

EXTERNAL INTERSECTION CIVIL WORKS

CHRISTENSEN ROAD & HIGHLANDS STREET

FOR VANTAGE YATALA STAGE 2



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STANDARD DRAWINGS			
DRAWING No.	REV.	ASSOCIATION	DRAWING TITLE
DS–010	F	IPWEA	ACCESS CHAMBER – STORMWATER ACCESS CHAMBER DETAILS – 1050 TO 2100 DIA
DS–015	C	IPWEA	ACCESS CHAMBER – MANHOLE FRAME – ROADWAY AND NON ROADWAY – 1050 TO 2100 DIA
DS–018	C	IPWEA	ACCESS CHAMBER – MANHOLE RISER DETAILS
DS–019	C	IPWEA	ACCESS CHAMBER – MANHOLE ROVER (ROADWAY)
DS–020	C	IPWEA	ACCESS CHAMBER – MANHOLE ROVER (NON ROADWAY)
DS–021	C	IPWEA	ACCESS CHAMBER – MANHOLE COVER CONCRETE INFILL (PEDESTRIAN TRAFFIC) 1050 TO 2100 DIA
DS–030	F	IPWEA	EXCAVATION, BEDDING & BACKFILL – RIGID & FLEXIBLE DRAINAGE PIPES
DS–031	D	IPWEA	EXCAVATION, BEDDING & BACKFILL PRECAST – BOX CULVERTS
DS–040	E	IPWEA	SEDIMENT CONTROL – SEDIMENT CONTROL DEVICES – SEDIMENT FENCE, ENTRY/EXIT SEDIMENT TRAP
DS–041	E	IPWEA	SEDIMENT CONTROL – SEDIMENT CONTROL DEVICES – KERB AND FIELD INLET, CHECK DAMS & STRAW BALES
DS–061	B	IPWEA	DRAINAGE PITS – KERB INLET – PRECAST LINTEL DETAILS
DS–062	D	IPWEA	DRAINAGE PITS – KERB INLET – GRATE AND FRAME
DS–063	C	IPWEA	DRAINAGE PITS – KERB INLET – LIP IN LINE – GENERAL ARRANGEMENT
DS–065	I	IPWEA	PATHWAYS – CONCRETE PATHWAY CONSTRUCTION DETAILS
RS–051	H	IPWEA	VEHICLE CROSSINGS HEAVY DUTY
RS–080	F	IPWEA	KERB AND CHANNEL – PROFILES AND DIMENSIONS – INCLUDING EDGE RESTRAINTS, MEDIAN & CHANNEL
RS–130	F	IPWEA	ROAD FURNITURE – STREET NAME SIGN AND LOCATION (FINGERBOARD)
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RS–140	F	IPWEA	SUBSOIL DRAINS – DETAILS AND LOCATION
RS–142	F	IPWEA	SUBSOIL DRAINS – ACCESS POINTS
02–003	2	CoGC	TYPICAL CROSS SECTIONS – COLLECTOR STREETS – PLAN 2 OF 2
02–005	I	CoGC	PUBLIC UTILITY PLANT CORRIDOR ALLOCATIONS IN PUBLIC ROAD VERGES
02–601	I	CoGC	NEW ROADS – SERVICE CONDUIT CROSSINGS
02–602	I	CoGC	ROAD CROSSING – TRENCH RESTORATION – FLEXIBLE PAVEMENTS
03–008	I	CoGC	FIELD INLET AND INTER–ALLOTMENT DRAINAGE PIT
03–101	I	CoGC	STORMWATER ACCESS CHAMBER 1050 DIA TO 1500 DIA
03–102	I	CoGC	STORMWATER ACCESS CHAMBER 1050 DIA TO 1500 DIA ROOF SLABS
03–201	I	CoGC	EXCAVATION AND BEDDING OF CONCRETE STORMWATER PIPES



LOCALITY PLAN
SCALE 1: 4000 (AI)



CLIENT

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

SITE ADDRESS

ROAD RESERVE FRONTING
60 STAPYLTON JACOBS WELL ROAD
STAPYLTON
LOT 501 SP295994

DWG No. 594I ENG EXTINT2 001 – REV A

SEPTEMBER 2021

GENERAL NOTES

1. **CONTRACT DOCUMENTATION**
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATION AND CoGC STANDARD DRAWINGS AND SPECIFICATIONS.
2. **DATUM**
LEVELS SHOWN ON THE PLANS ARE A.H.D.
3. **SURVEY SETOUT**
THE SURVEY SET OUT INFORMATION TO ALLOW THE CONTRACTOR TO ACCURATELY SET OUT THE WORKS HAS BEEN ESTABLISHED ON SITE BY THE PRINCIPAL’S SURVEYOR. THE CONTRACTOR IS NOT TO SCALE FROM THESE PLANS AS A MEANS OF OBTAINING SETOUT INFORMATION.
4. **EXISTING SURVEY CONTROL STATIONS**
IT IS THE CONTRACTOR’S RESPONSIBILITY TO ENSURE THAT EXISTING SURVEY CONTROL STATIONS ARE NOT DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES. SHOULD THE CONTRACTOR IDENTIFY ANY CONFLICT BETWEEN EXISTING SURVEY CONTROL AND THE REQUIRED CONSTRUCTION ACTIVITIES THE SUPERINTENDENT IS TO BE NOTIFIED IMMEDIATELY.
5. **EXISTING SERVICES**
THE LOCATION OF EXISTING SERVICES WHERE SHOWN ON THE PLANS ARE INDICATIVE ONLY. IT IS THE CONTRACTOR’S RESPONSIBILITY TO CONTACT THE RELEVANT SERVICE AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORKS AND TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE EXISTING SERVICES.
6. **SITE ACCESS**
THE CONTRACTOR SHALL ONLY GAIN ACCESS TO THE SITE VIA ACCESS LOCATIONS APPROVED BY THE SUPERINTENDENT. FREEDOM OF ACCESS TO OTHER WORK AREAS ON THE SITE SHALL BE MAINTAINED AT ALL TIMES.
7. **PROVISION FOR TRAFFIC**
PROVISION FOR TRAFFIC ON LOCAL ROADS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND CoGC COUNCIL REQUIREMENTS.
8. **WORK EXTENT**
THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS WORKS AREAS UNDER THE CONTRACT. AT NO TIME IS THE CONTRACTOR TO ENTER ADJOINING PROPERTIES OR CONTRACT AREAS WITHOUT THE WRITTEN AUTHORISATION OF THE SUPERINTENDENT.
9. **TESTING**
ALL TESTING IS TO BE CARRIED OUT BY AN APPROVED N.A.T.A TESTING AUTHORITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND REQUIREMENTS OF CoGC COUNCIL.
10. **"AS CONSTRUCTED" SURVEY**
"AS CONSTRUCTED" SURVEY SHALL BE CARRIED OUT BY THE PRINCIPAL’S SURVEYOR AS WORK PROCEEDS. THE CONTRACTOR IS TO PROVIDE ADEQUATE NOTICE TO THE PRINCIPAL’S SURVEYOR ON WHEN THIS IS REQUIRED TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF CoGC COUNCIL.
11. **MAINTENANCE OF SITE CONDITION**
AT THE COMPLETION OF WORKS THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT AND CoGC.

EARTHWORKS

1. **PRECEDENCE**
EARTHWORKS SPECIFICATION PREPARED BY PROJECT GEOTECHNICAL ENGINEER TO TAKE PRECEDENCE OVER STANDARD COUNCIL EARTHWORKS NOTES.
2. **TOPSOIL STRIPPING**
TOPSOIL SHALL BE STRIPPED ACROSS THE ENTIRE LIMIT OF THE EARTHWORKS CUT AND FILL AREAS AND SHALL BE STOCKPILED IN A LOCATION APPROVED BY THE SUPERINTENDENT. THE EXISTING STRATA IS TO BE TREATED IN ACCORDANCE WITH THE SPECIFICATION PRIOR TO PLACING ANY FILL.
3. **EARTHWORKS LEVELS**
EARTHWORKS LEVELS SHOWN ON THE DRAWING ARE TO FINISHED SURFACE LEVELS AND INCLUDE 100mm OF TOPSOIL. THE CONTRACTOR SHALL VERIFY BENCH MARK LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCY BEFORE COMMENCEMENT OF CONSTRUCTION.
4. **UNDESIRABLE MATERIAL**
THE ENTIRE SITE/WORK AREAS SHALL BE CLEARED OF ALL UNDESIRABLE MATTER. THIS SHALL INCLUDE DEAD TIMBER, GRASS, OLD FOUNDATIONS, CONCRETE, MASONRY REMAINS, GARBAGE, DEBRIS AND ALL OTHER OBSTRUCTIONS TO THE WORKS UNLESS NOTED OTHERWISE. HOLES LEFT BY THE REMOVAL OF ANY OF THE ABOVE SHALL BE FILLED WITH APPROVED COMPACTED MATERIAL WITH PROPERTIES AT LEAST SIMILAR TO INSITU SOILS.
5. **COMPACTION STANDARD**
FILL MATERIAL SHALL BE COMPACTED TO THE FOLLOWING STANDARD, WHERE DRY DENSITY RATIO IS DETERMINED IN ACCORDANCE WITH AS 1289 USING STANDARD COMPACTION METHODS.

a. 100% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 80% IN COHESIONLESS MATERIAL FOR ROAD SUBGRADE.

b. 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 65% IN COHESIONLESS MATERIAL FOR ALL AREAS OTHER THAN THE ROADWAY AND BUILDING PADS.

c. 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 70% IN COHESIONLESS MATERIAL FOR BUILDING PADS.
5. **PAVEMENT DEPTHS**
EARTHWORKS VOLUMES DO NOT INCLUDE DESIGN PAVEMENT DEPTHS AS INDICATED ON THE TYPICAL BULK EARTHWORKS ROAD SECTION.
6. **TESTING**
ALL EARTHWORKS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 3798 UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A TESTING AUTHORITY.
7. **ROCK**
THE CONTRACTOR IS TO INCLUDE ROCK EXCAVATION AS PART OF THEIR EARTHWORKS RATES UNLESS SCHEDULED OTHERWISE WITHIN THE CONTRACT DOCUMENT.

8. **DAMS AND PONDS**
WHERE POSSIBLE, WATER FROM DAMS AND PONDS SHALL BE MAINTAINED AND UTILISED FOR CONSTRUCTION PURPOSES AND DUST SUPPRESSION. DAMS AND PONDS NOT TO BE RETAINED SHALL BE DEWATERED, CLEARED OF ANY FOREIGN MATTER AND ORGANIC MATERIAL WITH THIS MATERIAL TO BE REMOVED OFF SITE.
9. **RETAINING STRUCTURES**
THE DESIGN AND STRUCTURAL CERTIFICATION OF RETAINING STRUCTURES SHALL BE UNDERTAKEN BY THE CONTRACTOR’S STRUCTURAL ENGINEER (RPEQ) IN CONSULTATION WITH THE PROJECT’S CIVIL ENGINEER AND LANDSCAPE CONSULTANT. THE CONTRACTOR IS RESPONSIBLE FOR THE SUBMISSION AND APPROVAL COORDINATION OF THE ASSOCIATED DRAWINGS AND CERTIFICATION TO CoGC. A COPY OF THIS SUBMISSION IS TO BE PROVIDED TO THE SUPERINTENDENT.
10. **TOPSOIL REPLACEMENT**
ALL BATTERS AND ALLOTMENT CUT & FILL AREAS SHALL BE TOP SOILED FROM ONSITE STOCKPILES. IF DIRECTED BY THE SUPERINTENDENT THE TOPSOIL SHALL BE SCREENED PRIOR TO PLACING. THE CONTRACTOR SHALL ALLOW IN THEIR RATE FOR SCREENING AND THE DISPOSAL OF REJECT MATERIAL TO TIP OFFSITE INCLUDING ALL FEES. THE CONTRACTOR MUST ENSURE THAT THE STRIPPING SHALL BE UNDERTAKEN IN SUCH A MANNER AS TO AVOID CONTAMINATION BY OVER CUTTING. IF TOPSOIL IS CONTAMINATED BY OVER CUTTING AND DETERMINED NOT SUITABLE FOR REUSE BY THE SUPERINTENDENT, THE CONTRACTOR SHALL BEAR THE COST OF REMOVAL FROM SITE OF ALL CONTAMINATED TOPSOIL AND THE COST TO SUPPLY AND IMPORT SUITABLE TOPSOIL FOR RE–SPREADING.
11. **GRASSING / SEEDING**
ALL CUT & FILL AREAS AND DISTURBED AREAS SHALL BE GRASSED OR SEEDDED TO THE SATISFACTION OF THE SUPERINTENDENT.
12. **STOCKPILES**
ALL MATERIAL/SPOIL ARISING FROM WORKS ON SITE SHALL BE COMPACTED TO AN APPROPRIATE STANDARD WITHIN THE FILL AREAS OF FUTURE STAGES AS NOMINATED BY THE SUPERINTENDENT. THE CONTRACTOR IS NOT TO CREATE STOCKPILES OF SURPLUS MATERIALS UNLESS WRITTEN AUTHORIZATION IS RECEIVED FROM THE SUPERINTENDENT.

SEDIMENT AND EROSION

1. THE OBJECTIVES OF THE EROSION AND SEDIMENT CONTROL PROGRAM ARE:

a. ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AT NON–EROSIVE FLOW VELOCITIES.

b. MINIMISE SOIL EROSION FROM WATER AND WIND

c. MINIMISE ADVERSE EFFECTS OF SEDIMENT RUNOFF.

d. MINIMISE OR PREVENT ENVIRONMENTAL HARM ASSOCIATED WITH DISCHARGE FROM THE CONSTRUCTED SITE.

e. ENSURE THAT THE VALUE AND USE OF RESIDENTIAL AND INDUSTRIAL PROPERTIES ADJACENT TO THE DEVELOPMENT ARE NOT DIMINISHED AS A RESULT OF THE MIGRATION OF SEDIMENT FROM THE DEVELOPMENT.
2. THE EROSION AND SEDIMENT CONTROL PROGRAM SHALL COMPLY WITH THE ENVIRONMENTAL BEST ENGINEERING GUIDELINES FOR QUEENSLAND CONSTRUCTION SITES. THE CURRENT INSTITUTION OF ENGINEERS AUSTRALIA AND LOCAL AUTHORITY GUIDELINES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTIONS INCLUDING THE MAINTENANCE PERIOD. NOTWITHSTANDING THE FINISHED EARTHWORK DESIGN SHOWN ON THE DRAWINGS THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT ADDITIONAL SEDIMENT CONTROL MEASURES AND DEVICES USING BEST PRACTICES AS NECESSARY TO MINIMISE THE QUANTITY LEAVING THE SITE DURING CONSTRUCTION AND UPON COMPLETION OF EARTHWORKS.
3. THE CONTRACTOR IS TO FOLLOW CONSTRUCTION PHASE AS OUTLINED IN THE CONSTRUCTION SEQUENCE/SILT MANAGEMENT PROGRAM. ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED, CLEANED AND/OR REPLACED WHENEVER THE ACCUMULATED SEDIMENT REDUCES THE CAPACITY BY 50%. ALL PERIMETER BANK/SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET. AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSTREAM CONSTRUCTION AND GULLY INLETS. INLETS TO HAVE SILT PROTECTION IN ACCORDANCE WITH KERB INLET PROTECTION DETAIL AT LOCATIONS SHOWN OR AS INDICATED BY THE ENGINEER.
4. PRIOR TO THE COMMENCEMENT OF EARTHWORKS, THE CONTRACTOR IS TO CARRY OUT SOIL TESTING (IF REQUIRED BY SUPERINTENDENT) TO DETERMINE THE DISPERSIVE CHARACTERISTICS OF THE SOIL AND RESULTS TO BE GIVEN TO THE ENGINEERS SO THE FINALIZATION OF THE EROSION AND SEDIMENT CONTROL PLAN CAN BE COMPLETE.
5. TOPSOIL SHALL BE STRIPPED AND STOCKPILED IN LOCATIONS AGREED WITH THE SUPERINTENDENT. CLEARING OF SITE AND STOCKPILE AREAS TO BE AS DIRECTED BY THE SUPERVISING ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST AT ALL TIMES INCLUDING WEEKENDS AND PUBLIC HOLIDAYS.
6. SUITABLE ACCESS SHALL BE PROVIDED TO ALLOW MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES (IT IS TO BE NOTED THAT CLEARING SHALL ONLY OCCUR IN AREAS WHERE THERE IS NO OTHER ALTERNATIVE TO GAIN ACCESS TO THE LOCATION OF THE SEDIMENT CONTROL DEVICES). APPROVAL FOR REMOVAL OF PROTECTED SIZE VEGETATION MUST BE OBTAINED PRIOR TO CLEARING.
7. ROCK BUNDS TO BE PLACED AROUND ALL HEADWALLS DURING CONSTRUCTION.
8. 0.8m TURF IS TO BE PLACED BEHIND ON ALL BATTERS WITHIN PRIVATE OPEN SPACE STEEPER THAN 1:4 UNLESS OTHERWISE NOTED. THE EXTENT OF GRASSING SHALL BE DETERMINED BY THE ENGINEER AND SHALL BE SEEDDED, AS SPECIFIED, WITHIN 7 DAYS OF FINAL TRIMMING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT GRASS STRIKE RATES ARE ACHIEVED AT ON AND OFF MAINTENANCE INSPECTION IN ACCORDANCE WITH COUNCIL REQUIREMENTS.
9. TURF IS TO BE PLACED FROM BACK OF KERB TO ROAD RESERVE BOUNDARY ON ALL ROADS AFTER EARTHWORKS ARE COMPLETE.
10. GEO–FABRIC LINING OF CHANNELS AND CHECK DAMS MAY BE REQUIRED SUBJECT TO THE SITE CONDITIONS.
11. FILLING AND OR MAINTENANCE OF EXISTING AND OR SEDIMENT BASINS MAY REQUIRE FLOCCULATION.
12. BATTERS WITHIN PUBLIC OPEN SPACE TO BE VEGETATED IN ACCORDANCE WITH THE APPROVED OPEN SPACE MANAGEMENT PLAN (OSMP).
13. IT IS THE CONTRACTOR’S RESPONSIBILITY TO CLEAN OUT GPT’S, SEDIMENT FOREBAYS AND ALL OTHER SEDIMENT CONTROL DEVICES DURING CONSTRUCTION AND PRIOR BOTH ON AND OFF MAINTENANCE INSPECTIONS WITH CoGC. THE CONTRACTOR SHALL ALLOW FOR THE COST OF THESE WORKS WITHIN THEIR SUBMITTED TENDER PRICE.

CONSTRUCTION SEQUENCE/SILT MANAGEMENT PROGRAM

1. **PRE START**

a. ERECT SITE SIGNAGE, CONSTRUCT ENTRY AND EXIT POINT AS INDICATED CONSTRUCT VEHICLE WASH–DOWN AREA AND ASSOCIATED SILT MANAGEMENT DEVICES.

b. CONSTRUCT SITE OFFICE AND STORAGE COMPOUND AREA

c. ERECT SILT FENCE AT LOW POINTS OF THE SITE AS DEMONSTRATED

d. ERECT TEMPORARY TREE PROTECTION FENCING FOR VEGETATION TO BE RETAINED IN ACCORDANCE WITH AN OPW (TREE CLEARING) APPROVAL OR IN ACCORDANCE WITH AS4970 PROTECTION OF TREES ON DEVELOPMENT SITE.

e. CONSTRUCT ROCK CHECK DAMS AND SILT FENCE DOWN STREAM OF BASIN.

f. CONSTRUCT BASIN TO FULL DEPTH.

g. CONSTRUCT BALANCE OF BASIN IN CONJUNCTION WITH CLEARING AND BULK EARTHWORKS OPERATIONS.

h. BASIN TO BE UTILISED AS A TEMPORARY SEDIMENT BASIN. DO NOT FILL IN FILTRATION MATERIAL UNTIL CONSTRUCTION OF DEVELOPMENT IS COMPLETE.
2. **CLEARING AND BULK EARTHWORKS**
THERE SHALL BE NO CLEARING OF PROTECTED SITE VEGETATION WITHOUT AN APPROVED TREE CLEARING PLAN WHICH SHALL BE IN ACCORDANCE WITH AS4970. SILT FENCE, SAND BAGS AND EARTH RILLS WITHIN ROADS TO BE ERECTED AS INDICATED OR REQUIRED DURING CLEARING & EARTHWORKS. SUPERINTENDENT TO CONFIRM THE EXTENT OF CLEARING PRIOR TO COMMENCEMENT OF WORKS.
3. **CONSTRUCTION OF SEWER/ROOFWATER / STORMWATER /SERVICES**
EXCAVATED MATERIAL TO BE PLACED ON HIGH SIDE OF TRENCH AND TO PROTECT PIPE WORK AND DIRECT SURFACE MATERIAL AWAY FROM EXCAVATIONS. TOPSOIL AND GRASS SEED AREAS IN ALLOTMENTS IMMEDIATELY AFTER COMPLETING THE SEWER AND ROOFWATER DRAINAGE CONSTRUCTION. DEPRESS GROUND AROUND TEMPORARY FIELD INLETS TO CREATE SILT POND.
4. **CONSTRUCTION – SEDIMENT BASINS**
SEDIMENT BASIN TO BE CONSTRUCTED TO THE EARTHWORK PROFILES SHOWN. STORMWATER OUTLET PIPES TO BE TEMPORARY BLOCKED OFF UNTIL DECOMMISSIONING OF SEDIMENT BASIN (SUBSEQUENT TO CONSTRUCTION OF ALL STAGES). PLACE SPOIL FROM SEDIMENT BASIN INTO ALLOCATED AREAS AS ENGINEERED FILL IN ACCORDANCE WITH THE STAGING ORDER. SEDIMENT BASIN SHALL ONLY BE REMOVED AFTER APPROVAL BY SUPERINTENDENT AND COUNCIL.
5. **CONSTRUCTION – STOCKPILING**
TEMPORARY SILT FENCE TO BE ERECTED 5m FROM TOE OF BATTER ON LOW SIDE OF STOCKPILING. STOCKPILE SITE TO BE CLEARED OF ADJACENT PROPERTY BOUNDARIES SO AS NOT TO CAUSE NUISANCE TO ADJOINING PROPERTIES. NO STOCKPILES ARE TO BE LOCATED WITHIN THE DRIP ZONE OR STRUCTURAL ROOT ZONE OF ANY RETAINED VEGETATION.
6. **CONSTRUCTION – ROADWORKS**
SILT FENCES TO ALLOTMENTS TO BE ERECTED. KERB INLET PROTECTION TO BE PROVIDED TO ALL GULLIES.
7. **CONSTRUCTION – ALLOTMENTS**
TOPSOIL AND SEED ALLOTMENTS. SILT FENCES TO ALLOTMENTS TO BE RE–ERECTED. ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY. SILT AFTER RAIN IS TO BE CLEANED FROM STREETS AND ALLOTMENTS IMMEDIATELY AND CORRECTIVE ACTION TAKEN TO AVOID A RE–OCCURRENCE OF THE FAILURE.
8. **POST CONSTRUCTION – ALLOTMENTS**
TOPSOIL AND GRASS SEED ALL ALLOTMENTS. COVERS TO GULLY GRATES TO BE REMOVED IF THE SUPERINTENDENT INDICATES THE GRASS STRIKE IS SUFFICIENT (80% WITHIN 30 CALENDAR DAYS OF FINAL ALLOTMENT TRIMMING).
9. **POST CONSTRUCTION – BASIN**
BASIN TO CONTINUE ACTING AS SEDIMENT BASIN UNTIL COMPLETION OF ALL STAGES.
10. **POST CONSTRUCTION – ROAD RESERVES**
TOPSOIL AND TURFING IS TO BE PROVIDED BEHIND KERB.
11. **MAINTENANCE (PRE TO POST CONSTRUCTION)**
THE SILT FENCES ARE TO BE INSPECTED WEEKLY. ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY. SILT AFTER RAIN IS TO BE CLEANED FROM STREETS AND ALLOTMENTS IMMEDIATELY AND CORRECTIVE ACTION TAKEN TO AVOID A RE–OCCURRENCE OF THE FAILURE.
12. **BASIN CONSTRUCTION**
PRIOR TO COMMENCING CONSTRUCTION OF THE DETENTION BASIN THE DIVERSION OF SURFACE WATER FROM THE PROPOSED WORK AREAS, USING MEASURES SUCH AS OPEN DRAINS/SUMPS, ARE REQUIRED TO AID IN SITE DE–WATERING. BASIN TO CONTINUE ACTING AS SEDIMENT BASIN UNTIL 85% OF CATCHMENT CONSTRUCTION IS COMPLETE. THE CLAY FILLING FOR THE BASIN WALLS SHALL BE PLACED IN HORIZONTAL LAYERS OF 200mm THICKNESS AND COMPACTED TO DENSITY RATIO WITHIN THE RANGE 98%–102% STANDARD COMPACTION (AS 1289.5.1.1). PLACEMENT MOISTURE CONTENT SHOULD BE WITHIN THE RANGE OMC –1% TO OMC –2% (WHERE OMC = OPTIMUM MOISTURE CONTENT FOR STANDARD COMPACTION). CONTRACTOR TO PROVIDE SAFETY FENCING TO BASIN DURING CONSTRUCTION AND APPROPRIATE SIGNAGE (PERMANENT OR TEMPORARY).



WARNING
BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR KNOWN POSITIONS OF VALVES, MANHOLES ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.



planning | environment | landscape | engineering | survey
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Client:

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:	
Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour interval:	-
PSM:	-
RL:	-

ISSUED FOR APPROVAL
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

GENERAL NOTES

A	14-09-2021	ORIGINAL ISSUE	LAB	MG
ISSUE	Date	Description	DRN	CHK

NOT APPLICABLE

Scale at A1:	NTS
Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

Drawing No: 5941 ENG EXTINT2 002 Rev. No: A

GENERAL NOTES

	OVERLAND FLOW PATH/SWALE
	CATCH DRAIN (NOT LINED)
	DIVERSION CHANNEL
	TABLE DRAIN
	STREAM INVERT
	CATCH DRAIN (CONCRETE LINED)
	SUBSOIL DRAINAGE
	SAWCUT
	SEDIMENT FENCE
	CHAINWIRE FENCE
	WOODEN FENCE
	BRIFEX WIRE SAFETY BARRIER
	GUARDRAIL (STANDARD)
	RETAINING WALL (PILED)
	RETAINING WALL (WITH FOOTINGS)
	RETAINING WALL
	ROCKBLOCK RETAINING WALL
	TOP OF BATTER / BERM
	NOISE WALL
	EDGE OF VEGETATION
	PROPERTY LINE
	PROPERTY LINE WITH FENCE
	PROPOSED KERB, FOOTPATH
	CONTROL LINE / CENTER OF ROAD
	RAILWAY (MAJOR)
	RAILWAY (MINOR)
	EXISTING PROPERTY LINE
	EXISTING PROPERTY LINE WITH FENCE
	EXISTING KERB, FOOTPATH
	EXISTING EDGE OF BITUMEN
	EXISTING RAILWAY (MAJOR)
	EXISTING RAILWAY (MINOR)
	LIMIT OF WORKS
	LIMIT OF SITE
	CATCHMENT BOUNDARY
	EXISTING CONTOURS
	DESIGN CONTOURS

RM	RM	RM		PROPOSED RISING MAIN
S	S	S	S	PROPOSED SEWER
SW	SW	SW	SW	PROPOSED STORMWATER
SW	SW	SW	SW	PROPOSED ROOFWATER
SS	SS	SS	SS	PROPOSED ROOFWATER
SS	SS	SS	SS	PROPOSED SUBSOIL
W	W	W	W	PROPOSED WATER
FW	FW	FW	FW	PROPOSED RECYCLED WATER
OIL	OIL	OIL	OIL	PROPOSED OIL
F	F	F	F	PROPOSED FUEL
G	G	G	G	PROPOSED GAS
P	P	P	P	PROPOSED PIPELINE
HV	HV	HV	HV	PROPOSED HIGH VOLTAGE ELECTRICITY
E	E	E	E	PROPOSED UNDERGROUND ELECTRICITY
E	E	E	E	PROPOSED OVERHEAD ELECTRICITY
L	L	L	L	PROPOSED LIGHTING
T	T	T	T	PROPOSED TELSTRA
C	C	C	C	PROPOSED COMMUNICATIONS
GE	GE	GE	GE	PROPOSED GAS, ELECT
GT	GT	GT	GT	PROPOSED GAS, TELSTRA
ET	ET	ET	ET	PROPOSED ELECT, TELSTRA
GET	GET	GET	GET	PROPOSED GAS, ELECTRICITY, TELSTRA
RM	RM	RM		EXISTING RISING MAIN
S	S	S	S	EXISTING SEWER
SW	SW	SW	SW	EXISTING STORMWATER
SW	SW	SW	SW	EXISTING ROOFWATER
SS	SS	SS	SS	EXISTING SUBSOIL
W	W	W	W	EXISTING WATER
FW	FW	FW	FW	EXISTING RECYCLED WATER
OIL	OIL	OIL	OIL	EXISTING OIL
F	F	F	F	EXISTING FUEL
G	G	G	G	EXISTING GAS
P	P	P	P	EXISTING PIPELINE
HV	HV	HV	HV	EXISTING HIGH VOLTAGE ELECTRICITY
E	E	E	E	EXISTING UNDERGROUND ELECTRICITY
E	E	E	E	EXISTING OVERHEAD ELECTRICITY
L	L	L	L	EXISTING LIGHTING
T	T	T	T	EXISTING TELSTRA
C	C	C	C	EXISTING COMMUNICATIONS
GE	GE	GE	GE	EXISTING GAS, ELECT
GT	GT	GT	GT	EXISTING GAS, TELSTRA
ET	ET	ET	ET	EXISTING ELECT, TELSTRA
GET	GET	GET	GET	EXISTING GAS, ELECTRICITY, TELSTRA

— RM — ✕ — RM — ✕ — RM — ✕ — RM — ✕ —	DEMOLISH RISING MAIN
— S — ✕ — S — ✕ — S — ✕ — S — ✕ —	DEMOLISH SEWER
— SW — ✕ — SW — ✕ — SW — ✕ — SW — ✕ —	DEMOLISH STORMWATER
— SS — ✕ — SS — ✕ — SS — ✕ — SS — ✕ —	DEMOLISH SUBSOIL
— W — ✕ — W — ✕ — W — ✕ — W — ✕ —	DEMOLISH WATER
— OIL — ✕ — OIL — ✕ — OIL — ✕ — OIL — ✕ —	DEMOLISH OIL
— F — ✕ — F — ✕ — F — ✕ — F — ✕ —	DEMOLISH FUEL
— HV — ✕ — HV — ✕ — HV — ✕ — HV — ✕ —	DEMOLISH HIGH VOLTAGE ELECTRICITY
— E — ✕ — E — ✕ — E — ✕ — E — ✕ —	DEMOLISH UNDERGROUND ELECTRICITY
— E — ✕ — E — ✕ — E — ✕ — E — ✕ —	DEMOLISH OVERHEAD ELECTRICITY
— L — ✕ — L — ✕ — L — ✕ — L — ✕ —	DEMOLISH LIGHTING
— G — ✕ — G — ✕ — G — ✕ — G — ✕ —	DEMOLISH GAS
— P — ✕ — P — ✕ — P — ✕ — P — ✕ —	DEMOLISH PIPELINE
— T — ✕ — T — ✕ — T — ✕ — T — ✕ —	DEMOLISH TELSTRA
— C — ✕ — C — ✕ — C — ✕ — C — ✕ —	DEMOLISH COMMUNICATIONS

BK(A)	BARRIER KERB (A)
BK(B)	BARRIER KERB (B)
BK(C)	BARRIER KERB (C)
BK(G)	BARRIER KERB (G)
MK(D)	MOUNTABLE KERB (D)
SMK(C)	SEMI MOUNTABLE KERB (C)
ER(E)	EDGE RESTRAINT (E)
KER(F)	KERB EDGE RESTRAINT (F)
RK&C(H)	ROLL TOP KERB & CHANNEL (H)
BK&C(J)	BARRIER KERB & CHANNEL (J)
ERH	KERB EDGE RESTRAINT (HIGH)
ERL	KERB EDGE RESTRAINT (LOW)
CS(K/L)	CHANNEL SECTION (K/L)
PMB	PRECAST MOTOR BED
DD	DISH DRAIN
K&G	KERB AND GUTTER
K&T	KERB AND TIE
KO	KERB ONLY
MK	MOUNTABLE KERB
RK	ROLL KERB
	EXISTING SIGN
	PROPOSED SIGN
	PROPOSED ROAD EDGE GUIDE POST
o BIN	EXISTING BIN
o PB	POST BOX
	TELEPHONE BOX
	TELSTRA PIT
o MP	TELSTRA MARKER POST
• WM	WATER METER
• V	WATER VALVE
• F.H.	FIRE HYDRANT
o TAP	WATER TAP
	WATER HYDRANT
	WATER TEE
	WATER REDUCER
	WATER ENDCAP
	WATER CONNECTION
	WATER CROSSING
	WATER DIEL
	SEWER MANHOLE
	SEWER RODDING END
	SEWER BEND
	SEWER MAINTENANCE SHAFT
	SEWER "T" END
	SEWER SLUICE VALVE

	SEWER PUMP STATION
	TEMPORARY SEWER PUMP STATION
	SEWER / STORMWATER PIT NO./LINE
	SETOUT POINT
	OFFSET PIT WITH GRATE
	IN LINE PIT WITH GRATE
	JUNCTION PIT
	LETTERBOX PIT
	GRATED INLET PIT
	MANHOLE
	GULLY PIT (LIP INLINE) ROLL TOP KERB – GRADE
	GULLY PIT (LIP INLINE) BARRIER KERB – SAG
	GULLY PIT (LIP INLINE) BARRIER KERB – GRADE
	GULLY PIT (LIP INLINE) ROLL TOP KERB – SAG
	GULLY PIT (KERB INLINE) – GRADE
	GULLY PIT (KERB INLINE) – SAG
	INFILTRATION TRENCH
	HEADWALL
	GROSS POLLUTANT TRAP
	STORMWATER CHAMBER
	SUBSOIL DRAIN AND CLEANOUT – KERB SHOULDER
	SUBSOIL OUTLET
	BUND
	POWER POLE
	POWER POLE WITH LIGHT
	LIGHT POLE
	STAY POLE
	LIGHT POLE WITH EXTENSION
	ELECTRICAL INSPECTION BOX
	ELECTRICAL POLE
	ELECTRICAL TURRET
	TRAFFIC SIGNAL
	MAIN ROADS PIT
	TANGENT POINT
	KERB RETURN NO.
	PRAM RAMP
	GRAVEL ROCK CHECK DAM
	MESH & GRAVEL INLET FILTER
	STORMWATER INLET FILTER
	DIRECTION OF OVERLAND FLOW

	GATE
	NOT IN SCOPE OF WORKS
	DEMOLITION
	EXISTING VERGE TO BE REMOVED
	PROPOSED CONCRETE FOOTPATH
	SCOUR PROTECTION
	TREES
	EXISTING TREES TO BE REMOVED
	TADPOLE
	GUARDRAIL

		WIDTH (mm)	
		MINIMUM	PREFERRED
ONE DIRECTION		80	80
BOTH DIRECTIONS		80	80
BROKEN LINE LANE		100	100
EDGE LINE		150	150
CONTINUOUS LINE		100	100
CONTINUITY LINE		200	200
TURN LINE		100	100
STOP LINE		300	300
GIVE WAY LINE		300	300
CROSSWALK LINE		200	200
SPECIAL PURPOSE BROKEN LINE		200	80

BARRIER LINE ONE DIRECTION	(ODBL)
BARRIER LINE BOTH DIRECTIONS	(DBL)
BROKEN LINE LANE	(BLL)
SPECIAL PURPOSE BROKEN LINE	(SBLL)
CONTINUOUS LANE LINE	(CLL)
EDGE LINE	(EL)
CONTINUITY LINE	(CL)
TURN LINE	(TL)
STOP LINE	(SL)
GIVE WAY LINE	(GWL)
EXCLUSIVE LEFT TURN ARROW	(PA-L)
EXCLUSIVE RIGHT TURN ARROW	(PA-R)
COMBINED STRAIGHT AHEAD AND LEFT TURN ARROW	(PA-SAL)
COMBINED STRAIGHT AHEAD AND RIGHT TURN ARROW	(PA-SAR)
BICYCLE LANE SYMBOL FOR ON-ROAD USE	(PS-2)
MERGE RIGHT ARROW	(PA-MR)
PEDESTRIAN CROSSWALK LINE	(PCW)

-2.0	to	-1.9	m	
-1.9	to	-1.8	m	
-1.8	to	-1.7	m	
-1.7	to	-1.6	m	
-1.6	to	-1.5	m	
-1.5	to	-1.4	m	
-1.4	to	-1.3	m	
-1.3	to	-1.2	m	
-1.2	to	-1.1	m	
-1.1	to	-1.0	m	
-1.0	to	-0.9	m	
-0.9	to	-0.8	m	
-0.8	to	-0.7	m	
-0.7	to	-0.6	m	
-0.6	to	-0.5	m	
-0.5	to	-0.4	m	
-0.4	to	-0.3	m	
-0.3	to	-0.2	m	
-0.2	to	-0.1	m	
-0.1	to	0.0	m	
0.0	to	0.1	m	
0.1	to	0.2	m	
0.2	to	0.3	m	
0.3	to	0.4	m	
0.4	to	0.5	m	
0.5	to	0.6	m	

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PROPERTY

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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LEGEND

A Issue	14-09-2021 Date	ORIGINAL ISSUE Description			LAB DRN MC CH

NOT APPLICABLE

Designed:	IG
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Drafted:	LAB
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Approved:	MG
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RPEQ:	1693
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Signed:	
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Drawing No:	Rev. No:
5941 ENG EXTINT2 003	A

LEGEND



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RI: -

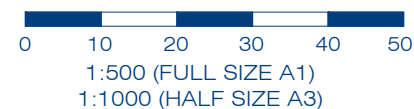
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DRAWING TITLE

KEY PLAN LAYOUT

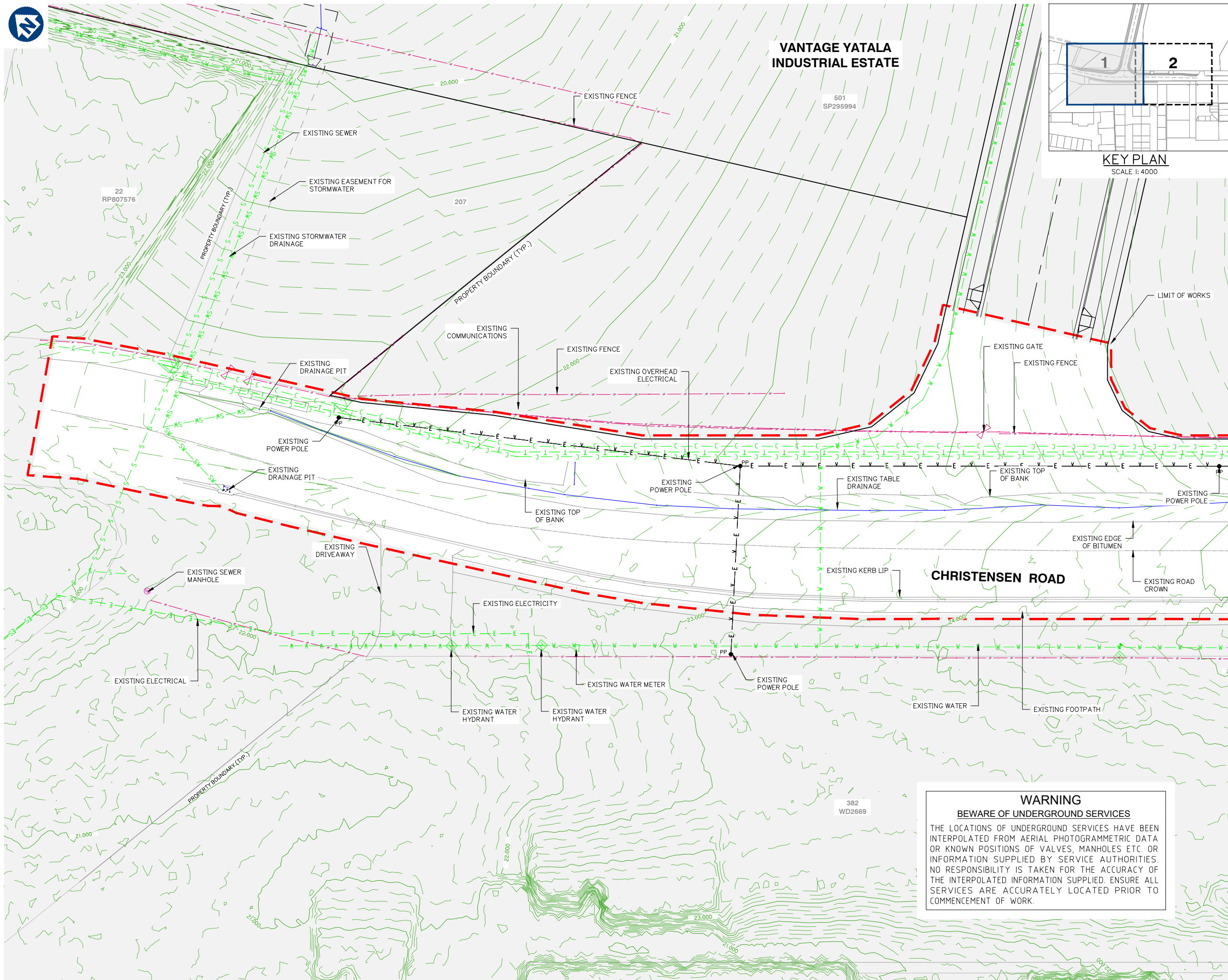


Scale at A1: 1:500

Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

Drawing No:	Rev. No:
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KEY PLAN LAYOUT

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Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

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ROAD, STAPYLTON QLD 4207

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DRAWING TITLE

EXISTING SURFACE LAYOUT
PLAN SHEET 1 OF 2

A	14-09-2021		ORIGINAL ISSUE	LAB	MO
Issue	Date		Description	DRI	CHI



1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1:	1:250
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Designed:	IG
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Drafted:	LAB
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Approved:	MG
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RPEQ:	1693
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Signed:	
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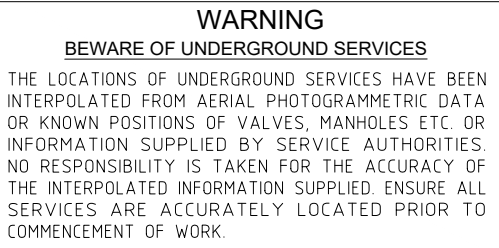
Date:	14-09-2021
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Drawing No:	Rev. No:
5941 ENG EXTINT2 010	A

Rev. No:
A

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EXISTING SURFACE LAYOUT PLAN SHEET 1 OF 2



Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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Lot:	501
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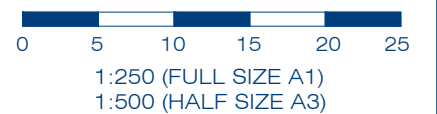
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DRAWING TITLE

EXISTING SURFACE LAYOUT
PLAN SHEET 2 OF 2

A Issue	14-09-2021 Date	<u>ORIGINAL ISSUE</u> Description			LAB DRN MG CHK



Scale at A1: 1:250

Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

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Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
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DRAWING TITLE
DEMOLITION AND
PROTECTION LAYOUT
PLAN SHEET 1 OF 2

A	14-09-2021	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK

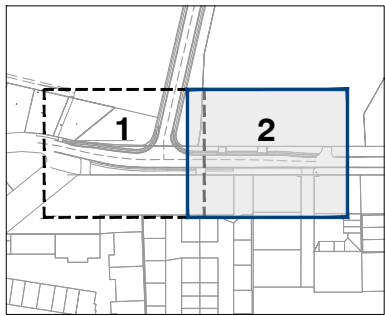


1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

Designed:	IG
Drafted:	LAB
Approved:	MG
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5941 ENG EXTINT2 020	A

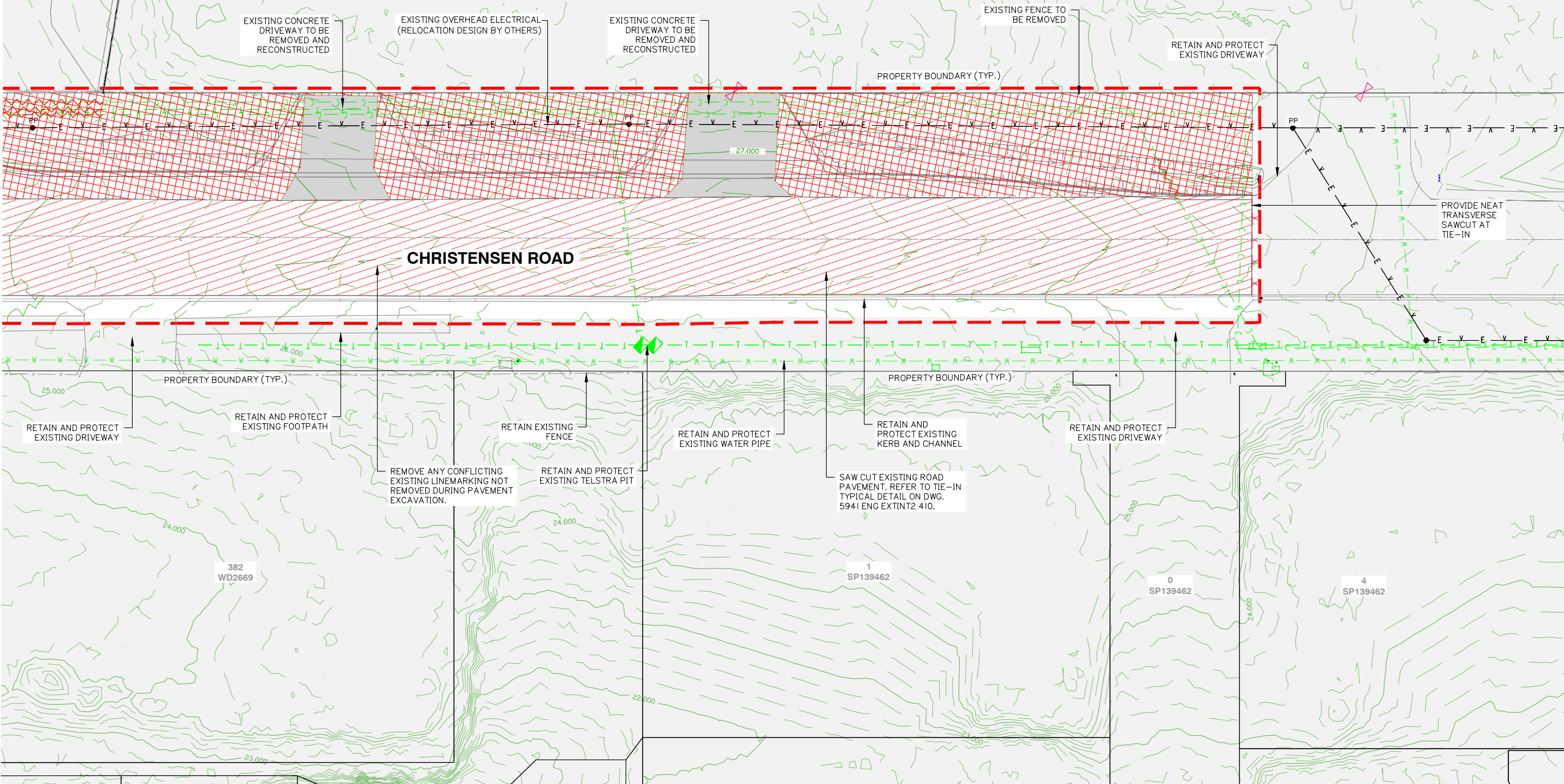


KEY PLAN
SCALE 1: 4000

LEGEND

- PROPERTY BOUNDARY
- EXISTING FENCE LINE
- EXISTING CONTOURS (MINOR)
- EXISTING CONTOURS (MAJOR)
- 32.00
- LIMIT OF WORKS
- EXISTING UTILITY SERVICES TO BE RELOCATED BY OTHERS
- REMOVE EXISTING FENCE
- EXISTING COMMUNICATIONS (NBN, OPTUS, TELSTRA)
- EXISTING WATER MAIN
- EXISTING OVERHEAD ELECTRICITY
- SAWCUT EXISTING ROAD PAVEMENT
- EXCAVATE EXISTING TOPSOIL AND TURF TO DESIGN SUBGRADE LEVELS AND DISPOSE OF MATERIAL
- EXCAVATE AND REMOVE EXISTING ROAD PAVEMENT TO DESIGN SUBGRADE LEVELS AND DISPOSE OF MATERIAL
- EXISTING CONCRETE TO BE REMOVED
- POWER POLE TO BE REMOVED BY OTHERS

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR KNOWN POSITIONS OF VALVES, MANHOLES ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.



Client:



Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
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DRAWING TITLE
DEMOLITION AND
PROTECTION LAYOUT
PLAN SHEET 2 OF 2

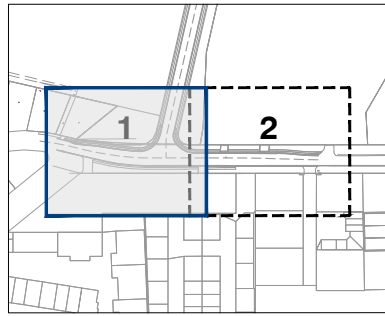
Issue	Date	Original Issue Description	LAB DRN	MG CHK
A	14-09-2021			

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1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

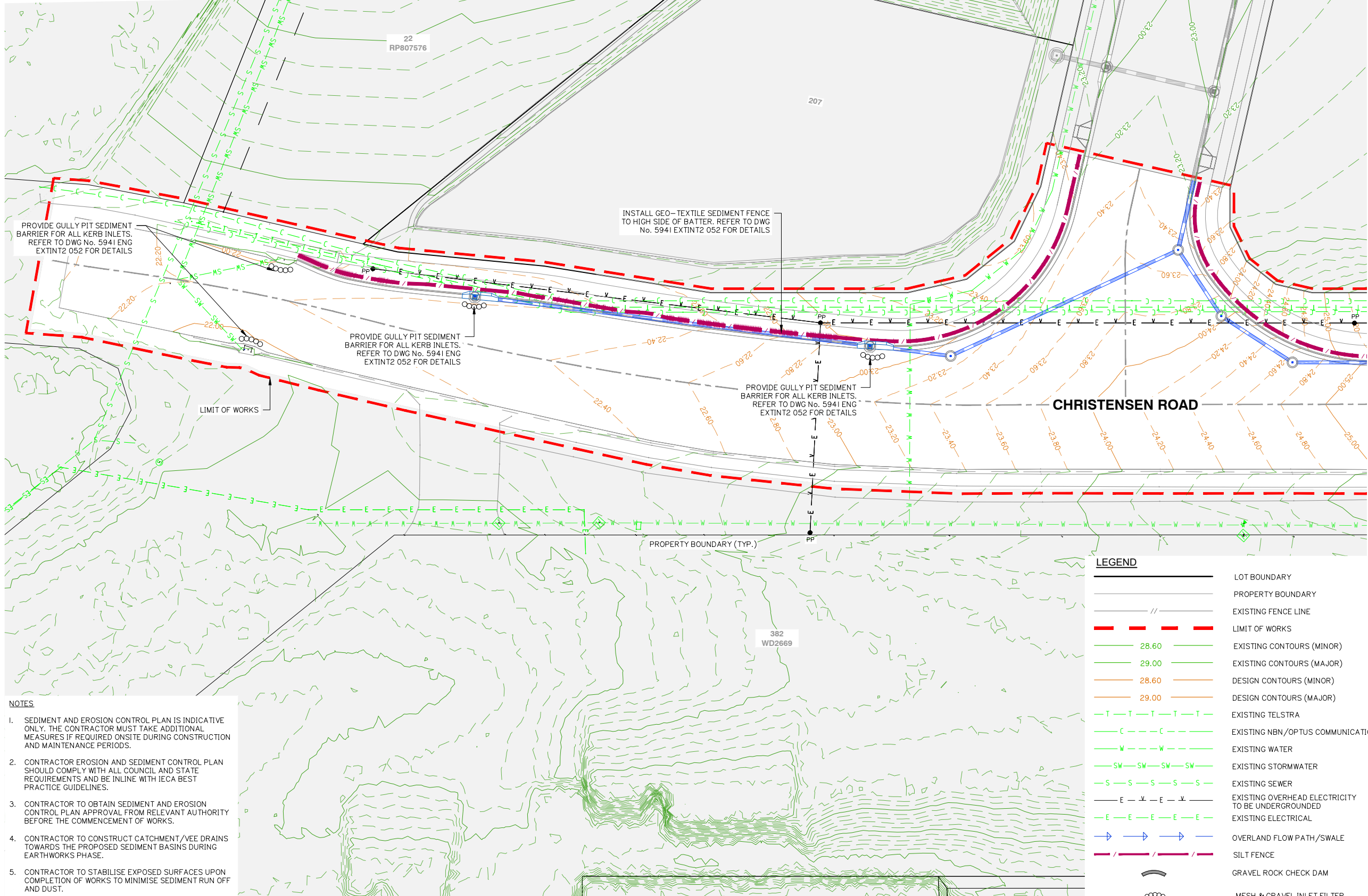
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Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

Drawing No: 5941 ENG EXTINT2 021
Rev. No: A



KEY PLAN
SCALE 1: 4000



- NOTES
- SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
 - CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL COUNCIL AND STATE REQUIREMENTS AND BE IN LINE WITH IECA BEST PRACTICE GUIDELINES.
 - CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
 - CONTRACTOR TO CONSTRUCT CATCHMENT/VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.
 - CONTRACTOR TO STABILISE EXPOSED SURFACES UPON COMPLETION OF WORKS TO MINIMISE SEDIMENT RUN OFF AND DUST.

LEGEND	
	LOT BOUNDARY
	PROPERTY BOUNDARY
	EXISTING FENCE LINE
	LIMIT OF WORKS
	EXISTING CONTOURS (MINOR)
	EXISTING CONTOURS (MAJOR)
	DESIGN CONTOURS (MINOR)
	DESIGN CONTOURS (MAJOR)
	EXISTING TELSTRA
	EXISTING NBN/OPTUS COMMUNICATIONS
	EXISTING WATER
	EXISTING STORMWATER
	EXISTING SEWER
	EXISTING OVERHEAD ELECTRICITY TO BE UNDERGROUNDED
	EXISTING ELECTRICAL
	OVERLAND FLOW PATH/SWALE
	SILT FENCE
	GRAVEL ROCK CHECK DAM
	MESH & GRAVEL INLET FILTER

SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 2

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
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ROAD, STAPYLTON QLD 4207

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Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE

SEDIMENT AND EROSION
CONTROL PLAN SHEET 1 OF 2

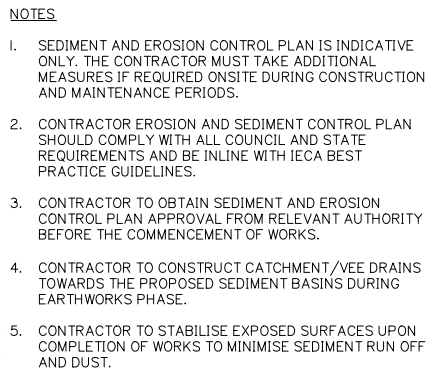
A		14-09-2021	ORIGINAL ISSUE	LAB	MG
ISSUE		Date	Description	DRN	CHK

0 5 10 15 20 25
1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

Drawing No: 5941 ENG EXTINT2 050
Rev. No: A



Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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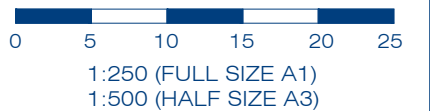
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DRAWING TITLE

SEDIMENT AND EROSION
CONTROL PLAN SHEET 2 OF 2

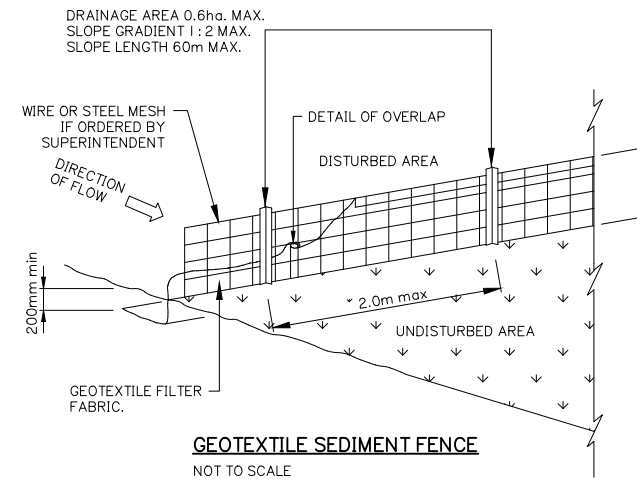
A	14-09-2021	ORIGINAL ISSUE		LAB	MG
Issue	Date	Description		DRN	CHK



Scale at A1: 1:250

Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
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5941 ENG EXTINT2 051	A



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Issue	Date	Description	DRN	CHK

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Date:	14-09-2021

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5941 ENG EXTINT2 052	A

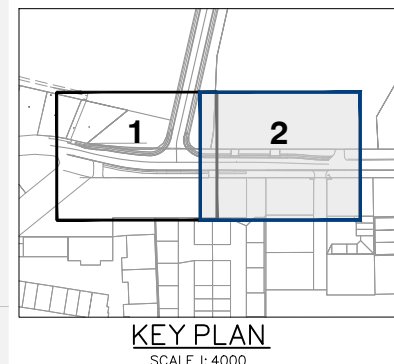
-
- AMGROW**
- 500
SP295994
- CHRISTENSEN ROAD**
- 382
WD2669
- 0
SP192095
- 1
SP139462
- 4
SP139462
- EARTHWORKS DEPTH LEGEND**
- | | |
|----------------|--|
| -2.0 to -1.9 m | |
| -1.9 to -1.8 m | |
| -1.0 to -0.9 m | |
| -0.9 to -0.8 m | |

-2.0	to	-1.9	m	
-1.9	to	-1.8	m	
-1.8	to	-1.7	m	
-1.7	to	-1.6	m	
-1.6	to	-1.5	m	
-1.5	to	-1.4	m	
-1.4	to	-1.3	m	
-1.3	to	-1.2	m	
-1.2	to	-1.1	m	
-1.1	to	-1.0	m	

-1.0	to	-0.9	m	
-0.9	to	-0.8	m	
-0.8	to	-0.7	m	
-0.7	to	-0.6	m	
-0.6	to	-0.5	m	
-0.5	to	-0.4	m	
-0.4	to	-0.3	m	
-0.3	to	-0.2	m	
-0.2	to	-0.1	m	
-0.1	to	0.0	m	

0.0	to	0.1	m	
0.1	to	0.2	m	
0.2	to	0.3	m	
0.3	to	0.4	m	
0.4	to	0.5	m	
0.5	to	0.6	m	

BULK EARTHWORKS SUMMARY	
CUT	- 1,794m ³
FILL	32m ³
TOTAL	-1,762 m ³
EXCESS OF CUT OVER FILL	1,762 m ³



planning | environment | landscape | engineering | survey
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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

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Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

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EARTHWORKS CUT AND
FILL PLAN SHEET 2 OF 2

A	14.09.2021				
Issue	Date	ORIGINAL ISSUE		LAB	MG
		Description		DRN	CHI



1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

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5941 ENG EXTINT2 121	A





NOTE:
REFER TO DWG. NO. 594I ENG
EXTINT2 510 FOR STORMWATER
STRUCTURE DETAILS AND LEVELS



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DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT PLAN
SHEET 2 OF 2

A	14-09-2021	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK

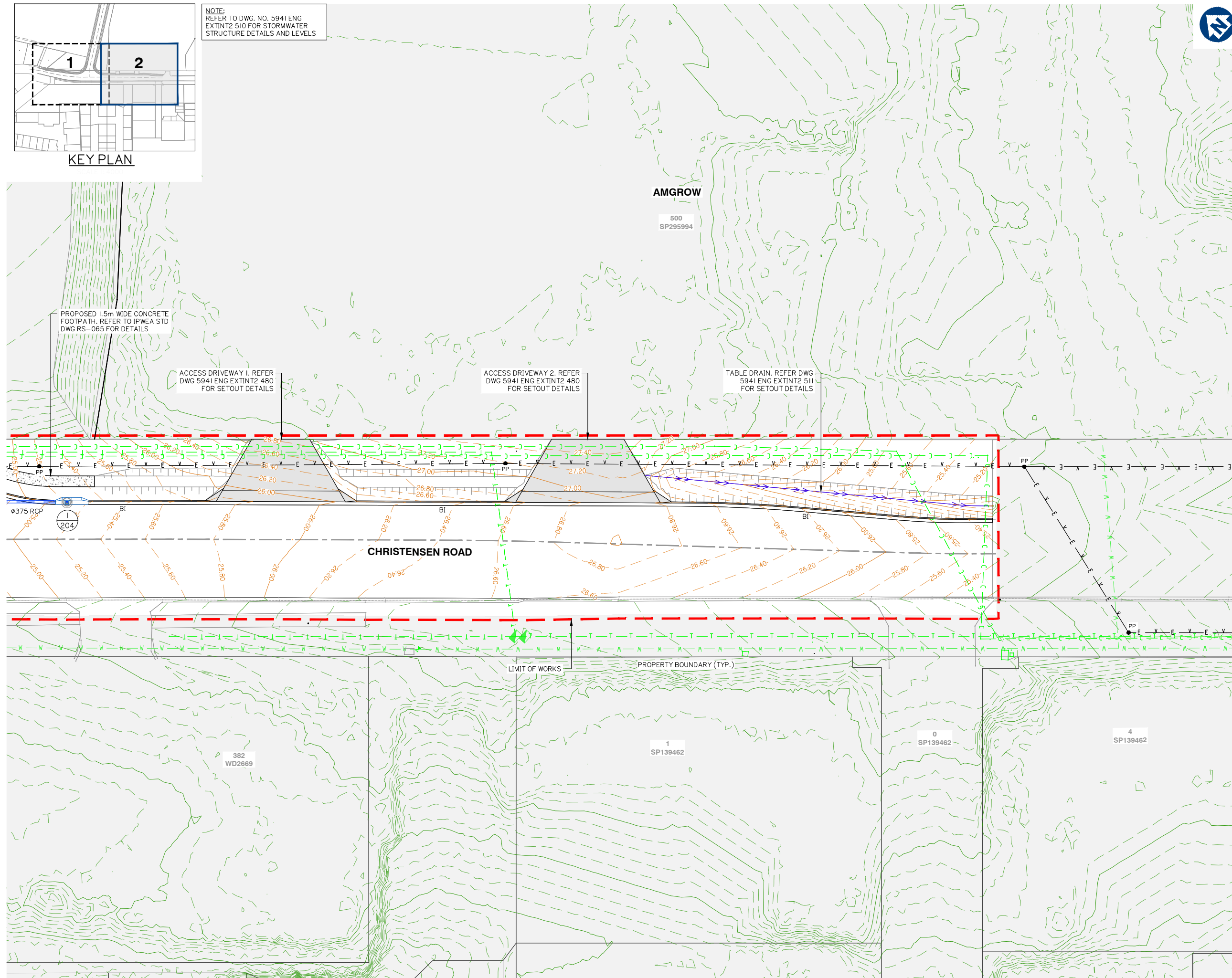


1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

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Date:	14-09-2021

Drawing No:	Rev. No:
5941 ENG EXTINT2 401	A



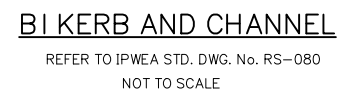


Diagram illustrating the subsoil detail for a drainage pipe. The detail shows a rectangular section of backfill material (300 units wide) containing a perforated drainage pipe (50 units thick). The section is surrounded by a geotextile surround. The minimum height of the backfill material is 1000 units. The detail is referenced to IPWEA STD. DWG. No. RS-140 FOR SUBSOIL DETAILS.

NOTE: SUBSOIL ACCESS POINTS TO BE INSTALLED
IN ACCORDANCE WITH IPWEA RS-142
NOT TO SCALE



1200 ID (1650 OD) x 150mm THICK – 1000mm HOLE
1350 ID (1830 OD) x 150mm THICK – 1000mm HOLE
1500 ID (1970 OD) x 175mm THICK – 1000mm HOLE
1650 ID (2100 OD) x 225mm THICK – 1000mm HOLE
1800 ID (2300 OD) x 225mm THICK – 1000mm HOLE
2000 ID (2450 OD) x 250mm THICK – 1000mm HOLE

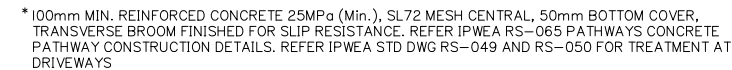
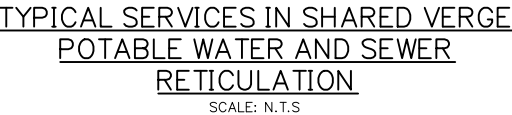


N.T.S.

REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

TYPICAL SECTIONS AND
DETAILS SHEET 1 OF 2

Scale at A1:	NTS
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Drafted:	LAB
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RPEQ:	16939
Signed:	
Date:	14-09-2021
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5941 ENG EXTINT2 410	A



NOTE:

1. PUBLIC UTILITIES ALLOCATIONS ARE MEASURED FROM THE REAL PROPERTY BOUNDARY.
2. LIGHT POLE, TREE ALLOCATIONS AND FOOTPATHS ARE MEASURED FROM THE NOMINAL KERB LINE.



TYPICAL DETAIL
SHOWING LONGITUDINAL CONSTRUCTION DETAIL FOR
CONNECTION TO EXISTING PAVEMENT / A.C.



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TYPICAL SECTIONS AND
DETAILS SHEET 2 OF 2

A Issue	14-09-2021 Date	ORIGINAL ISSUE Description	LAB ORI

SCALE IN METRES

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Scale at A1:	NTS
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Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

Drawing No:	Rev. No:
5941 ENG EXTINT2 411	A



Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

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CONTROL LINE SETOUT TABLES

A Issue	14-09-2021 Date	ORIGINAL ISSUE Description	LAB DRN	MG CHK

Scale at A1: NTS

Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

Drawing No:	Rev. No:
5941 ENG EXTINT2 421	A

SETOUT TABLE - CHRISTENSEN ROAD								
PT	CHAINAGE	EASTING	NORTHING	FSL HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
2.5	0.000	2338.130	6472.608	22.455	149°06'40.18"			
TC	0.338	2338.304	6472.318	22.449	149°06'40.18"			
IP 2	3.522	2339.939	6469.585	22.389		R = -100.000	6.367	3°38'52.11"
	5.000	2340.789	6468.375	22.362	146°26'24.98"			
CC	6.705	2341.744	6466.962	22.331	145°27'48.08"			
	10.000	2343.595	6464.236	22.272	146°10'42.66"			
	15.000	2346.338	6460.056	22.213	147°15'49.52"			
	20.000	2349.002	6455.825	22.188	148°20'56.38"			
IP 3	24.327	2351.749	6452.424	22.153		R = 263.978	35.244	7°38'58.92"
	25.000	2351.586	6451.544	22.159	149°26'03.23"			
	30.000	2354.087	6447.215	22.204	150°31'10.09"			
	35.000	2356.507	6442.839	22.245	151°36'16.95"			
	40.000	2358.842	6438.419	22.284	152°41'23.81"			
IP 4	41.949	2359.730	6436.683	22.299				
	45.000	2361.171	6433.994	22.320	151°49'14.24"			
TC	48.166	2362.666	6431.204	22.333	151°49'14.24"			
IP 5	49.959	2363.513	6429.623	22.341		R = -150.000	3.586	1°22'10.45"
	50.000	2363.542	6429.592	22.341	151°07'11.96"			
CC	51.751	2364.397	6428.064	22.349	150°27'03.80"			
	55.000	2366.012	6425.245	22.363	149°55'43.53"			
	60.000	2368.548	6420.936	22.384	149°07'29.68"			
	65.000	2371.143	6416.662	22.424	148°19'15.84"			
	70.000	2373.799	6412.426	22.481	147°31'01.99"			
	75.000	2376.514	6408.227	22.531	146°42'48.15"			
IP 6	75.160	2375.958	6407.670	22.533		R = -356.385	46.817	7°31'36.40"
	80.000	2379.287	6404.067	22.592	145°54'34.30"			
	85.000	2382.119	6399.946	22.680	145°06'20.46"			
	90.000	2385.008	6395.865	22.803	144°18'06.61"			
	95.000	2387.953	6391.825	22.950	143°29'52.77"			
IP 7	98.569	2390.091	6388.967	23.053				
	100.000	2390.956	6387.827	23.095	142°37'30.87"			
	105.000	2394.036	6383.889	23.235	141°18'08.70"			
IP 8	106.799	2395.046	6382.390	23.287		R = -216.566	16.462	4°21'18.65"
	110.000	2397.207	6380.023	23.380	139°58'46.54"			
	115.000	2400.466	6376.231	23.527	138°39'24.38"			
IP 9	115.030	2400.486	6376.209	23.527				
	120.000	2403.822	6372.525	23.674	137°50'07.95"			
	125.000	2407.179	6368.819	23.822	137°50'07.95"			
IP 10	127.305	2408.726	6367.110	23.895				
	130.000	2410.531	6365.109	23.982	137°57'45.55"			
	135.000	2413.879	6361.395	24.142	137°57'45.55"			
	140.000	2417.227	6357.682	24.302	137°57'45.55"			
IP 11	140.038	2417.252	6357.653	24.303				
	145.000	2420.569	6353.963	24.471	138°03'21.20"			
	150.000	2423.911	6350.244	24.648	138°03'21.20"			
	155.000	2427.253	6346.525	24.826	138°03'21.20"			
	160.000	2430.595	6342.806	25.006	138°03'21.20"			
	165.000	2433.937	6339.087	25.174	138°03'21.20"			
	170.000	2437.279	6335.368	25.338	138°03'21.20"			
	175.000	2440.621	6331.649	25.500	138°03'21.20"			
	180.000	2443.963	6327.930	25.662	138°03'21.20"			
IP 12	181.811	2445.173	6326.583	25.706				
	185.000	2447.296	6324.203	25.758	138°16'42.04"			
	190.000	2450.623	6320.471	25.839	138°16'42.04"			
	195.000	2453.951	6316.739	25.920	138°16'42.04"			
	200.000	2457.279	6313.007	26.008	138°16'42.04"			
	205.000	2460.606	6309.275	26.098	138°16'42.04"			
	210.000	2463.934	6305.543	26.191	138°16'42.04"			
	215.000	2467.261	6301.811	26.308	138°16'42.04"			
TC	217.333	2468.814	6300.069	26.365	138°16'42.04"			
	220.000	2470.585	6298.076	26.430	138°29'47.79"			
	225.000	2473.885	6294.319	26.551	138°54'21.11"			
IP 13	227.538	2475.606	6292.452	26.613		R = 700.000	20.409	1°40'13.76"

	230.000	2477.158	6290.539	26.673	139°18'54.43"			
	235.000	2480.404	6286.736	26.808	139°43'27.75"			
IP 14	237.742	2482.173	6284.641	26.879				
	240.000	2483.628	6282.915	26.936	139°50'35.97"			
	245.000	2486.853	6279.094	26.980	139°50'35.97"			
	250.000	2490.077	6275.272	26.859	139°50'35.97"			
	255.000	2493.302	6271.451	26.738	139°50'35.97"			
	260.000	2496.526	6267.629	26.618	139°50'35.97"			
	265.000	2499.750	6263.808	26.496	139°50'35.97"			
	270.000	2502.975	6259.986	26.337	139°50'35.97"			
	275.000	2506.199	6256.165	26.179	139°50'35.97"			
	280.000	2509.424	6252.344	26.023	139°50'35.97"			
	285.000	2512.648	6248.522	25.858	139°50'35.97"			
TC	285.394	2512.902	6248.221	25.843	139°50'35.97"			
IP 15	287.557	2514.297	6246.568	25.764		R = -150.000	4.325	1°39'07.73"
CT	289.720	2515.739	6244.956	25.686	138°11'28.24"			
	290.000	2515.926	6244.747	25.676	138°11'28.24"			
	295.000	2519.259	6241.020	25.498	138°11'28.24"			
IP 16	295.957	2519.897	6240.307	25.463	138°11'28.24"			

SETOUT TABLE - HIGHLANDS STREET								
PT	CHAINAGE	EASTING	NORTHING	FSL HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	1.942	2413.875	6361.399	24.141	47°57'48.81"			
	10.000	2419.860	6366.795	23.900	47°57'48.81"			
TC	19.908	2427.219	6373.429	23.627	47°57'48.81"			
	20.000	2427.287	6373.491	23.625	48°08'21.35"			
IP 2	23.324	2429.767	6375.727	23.545		R = 30.000	6.833	13°02'58.02"
CT	26.741	2432.768	6377.390	23.468	61°00'46.82"			
	30.000	2435.619	6378.969	23.401	61°00'46.82"			
END	31.436	2436.875	6379.665	23.373	61°00'46.82"			

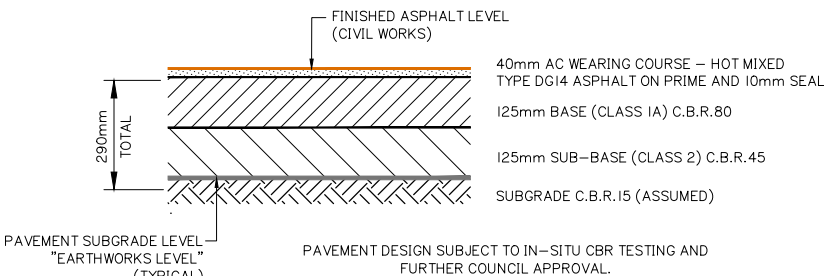
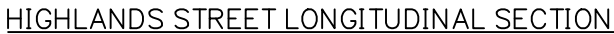


Diagram illustrating the cross-section of a road pavement structure, showing the following layers from top to bottom:

- FINISHED ASPHALT LEVEL (CIVIL WORKS)
- 40mm AC WEARING COURSE – HOT MIXED TYPE DG14 ASPHALT ON PRIME AND 10mm SEAL
- 125mm BASE (CLASS 1A) C.B.R. 80
- 125mm SUB-BASE (CLASS 2) C.B.R. 45
- 150mm CEMENT TREATED BASE (C.T.B) 3% CEMENT CONTENT BY VOLUME
- SUBGRADE C.B.R. 15 (ASSUMED)

A vertical dimension line on the left indicates a total thickness of 440mm for the layers below the asphalt level.

NOMINAL ROAD PAVEMENT DETAIL – IN CUT AREAS
INDUSTRIAL COLLECTOR STREET N.T.S



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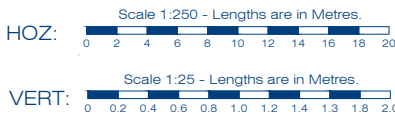
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DRAWING TITLE
HIGHLANDS STREET
LONGITUDINAL
SECTION

A Issue	14-09-2021 Date	ORIGINAL ISSUE Description		LAB DRN	MCH CH



Scale at A1: AS SHOWN

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CHRISTENSEN ROAD CROSS
SECTIONS SHEET 1 OF 13

A Issue	14-09-2021 Date	ORIGINAL ISSUE Description			LAB DRN MO CH



1:100 (FULL SIZE A1)
1:200 (HALF SIZE A3)

Scale at A1: 1:100

Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

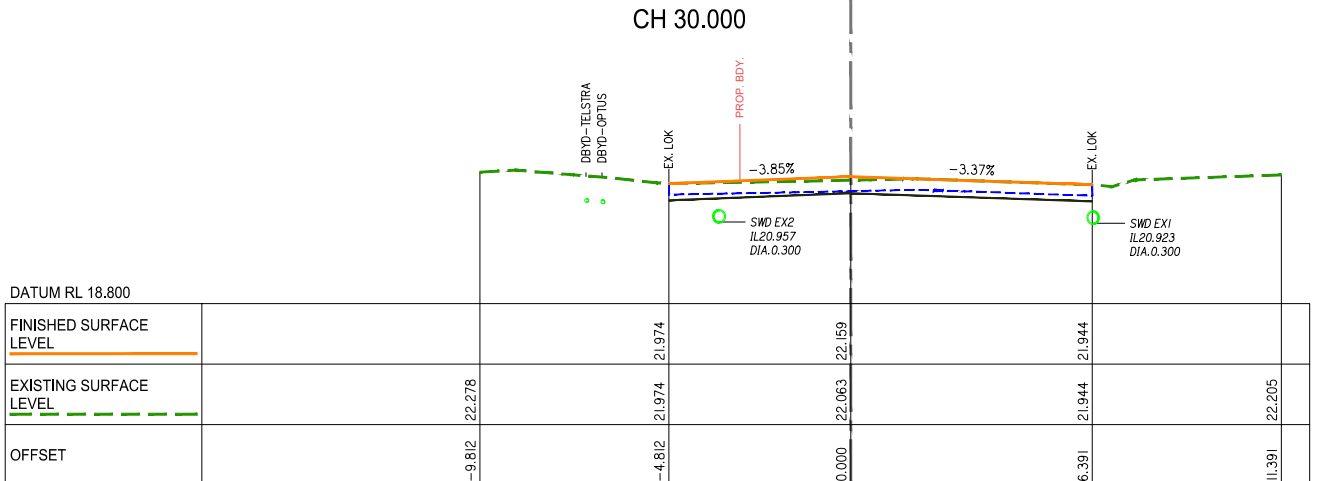
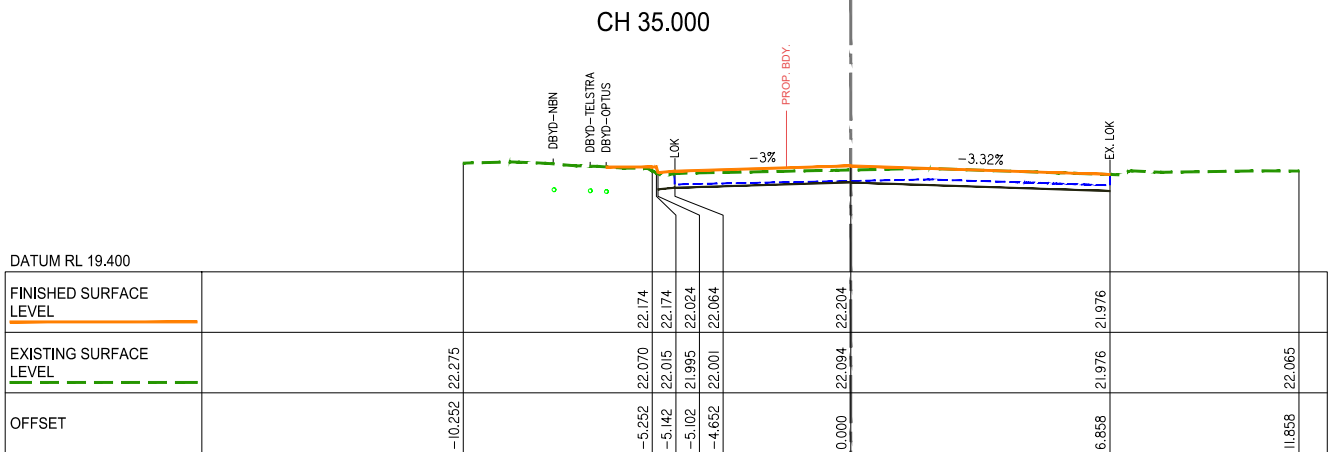
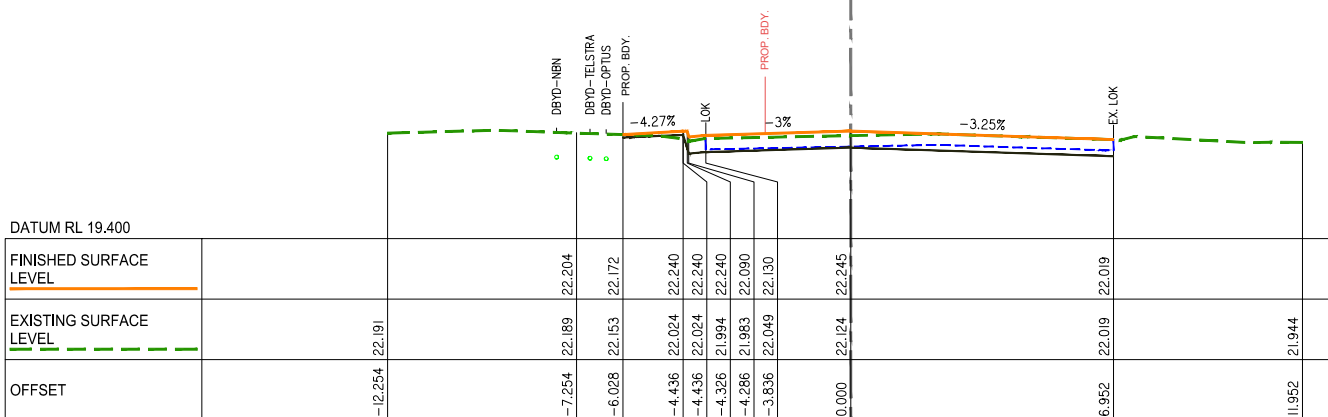
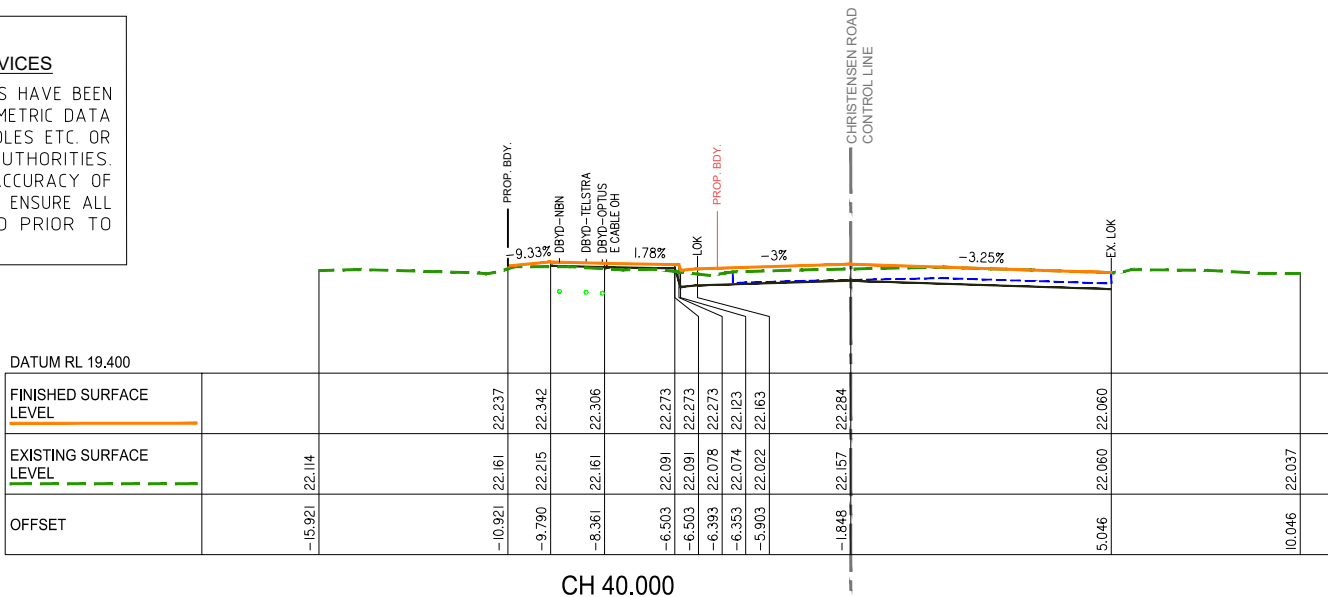
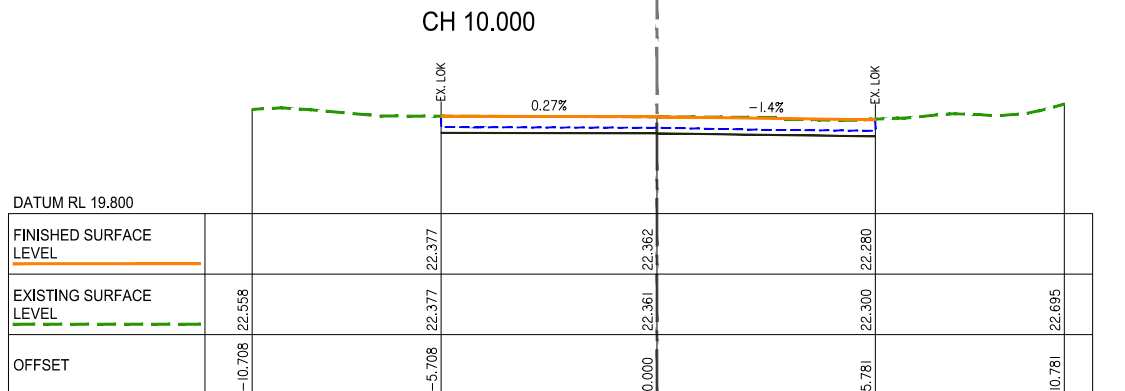
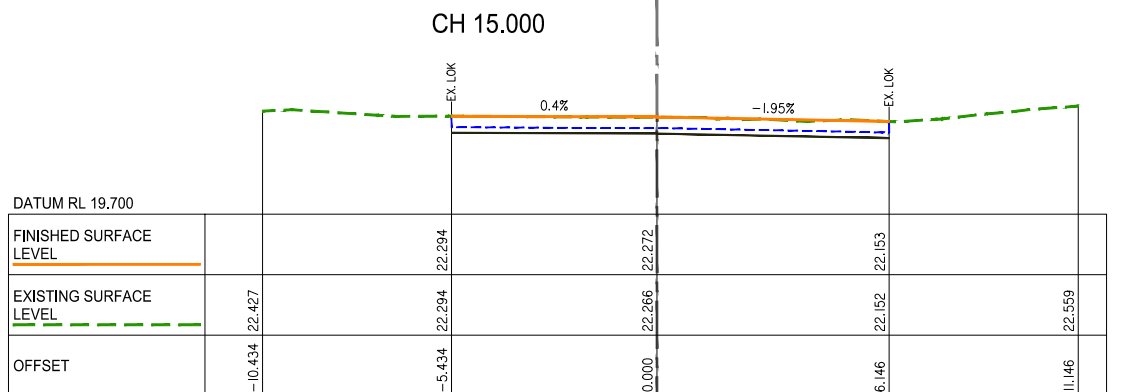
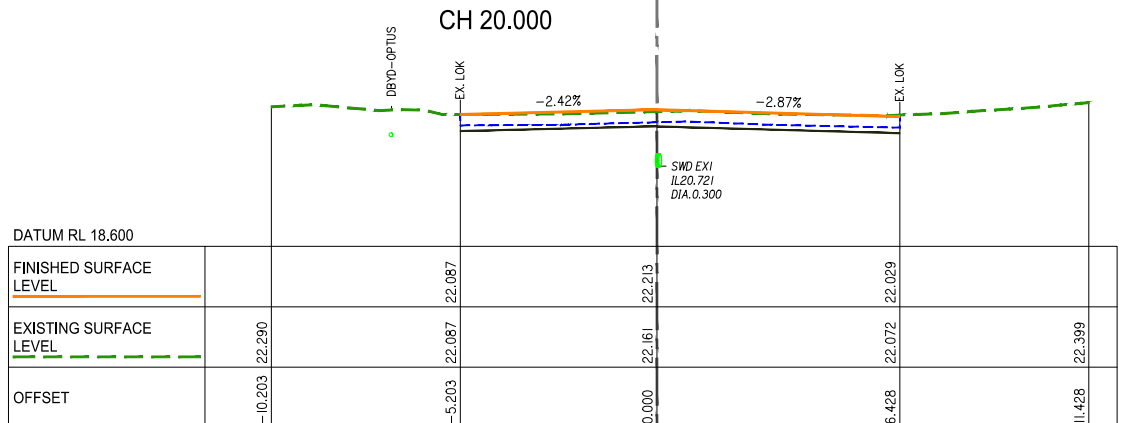
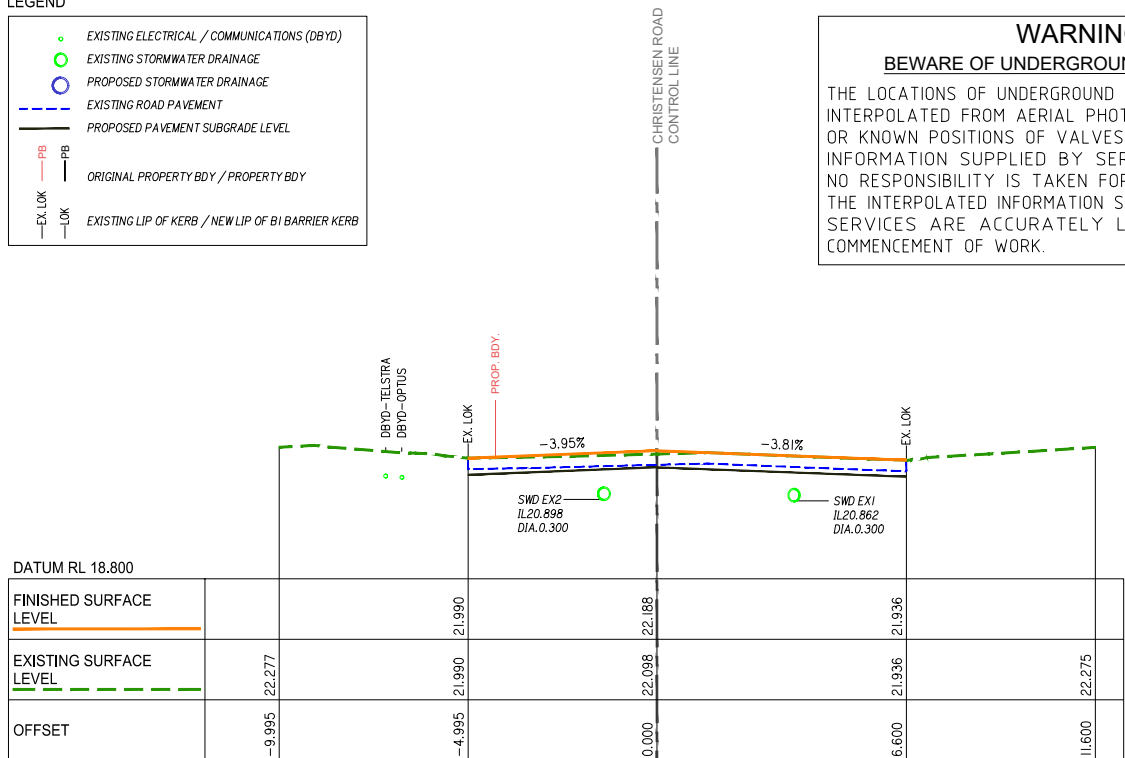
Drawing No:	Rev. No:
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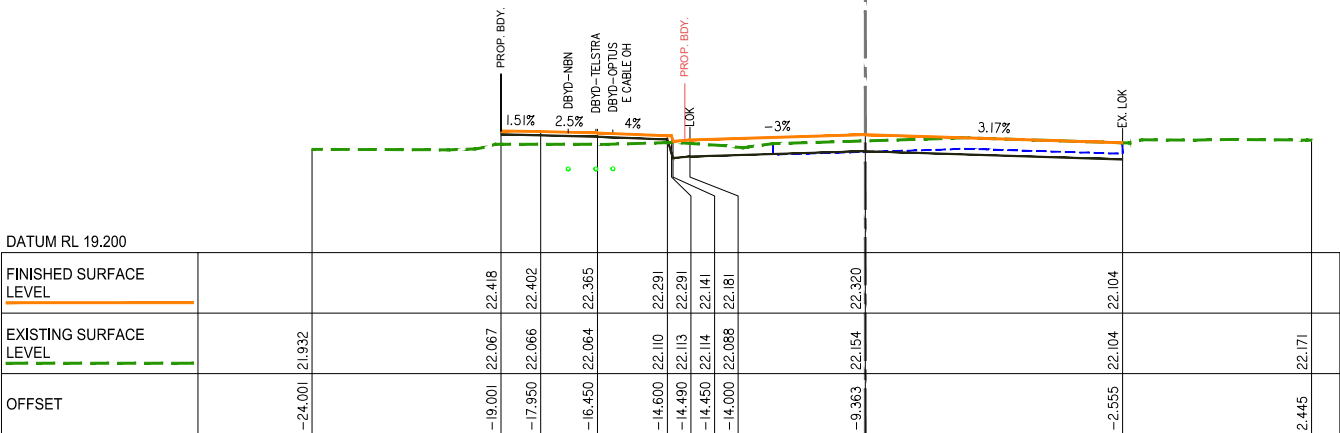
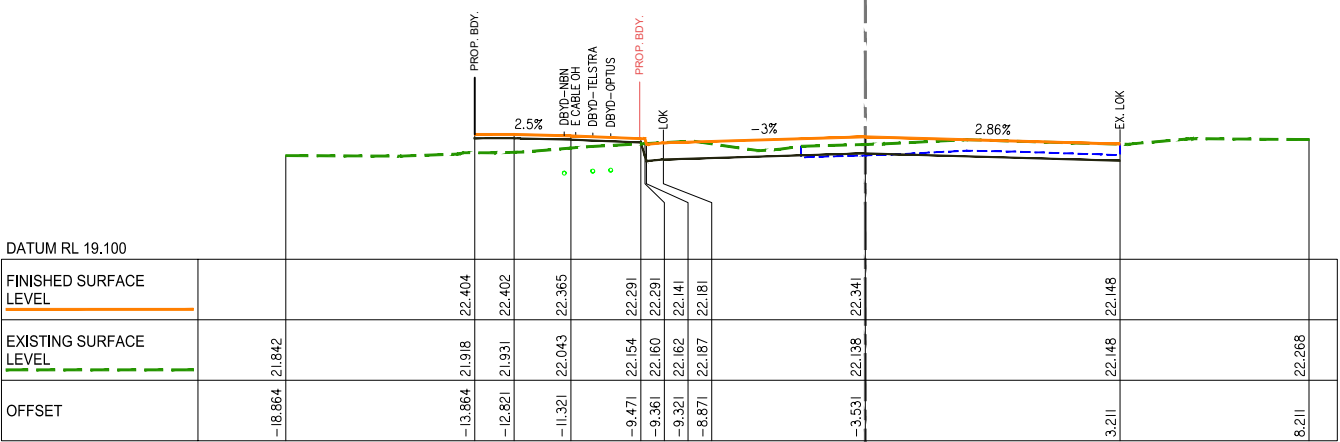
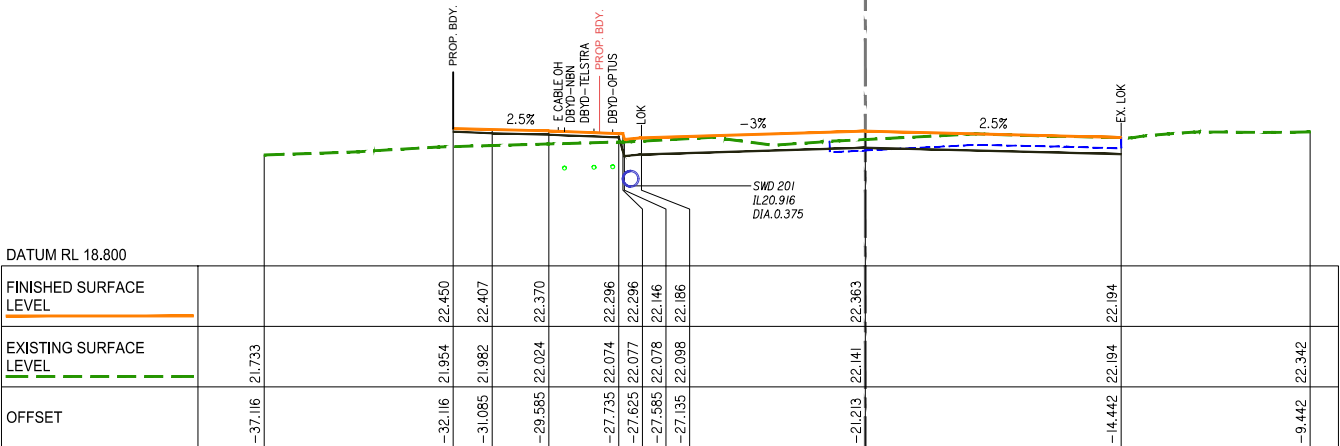
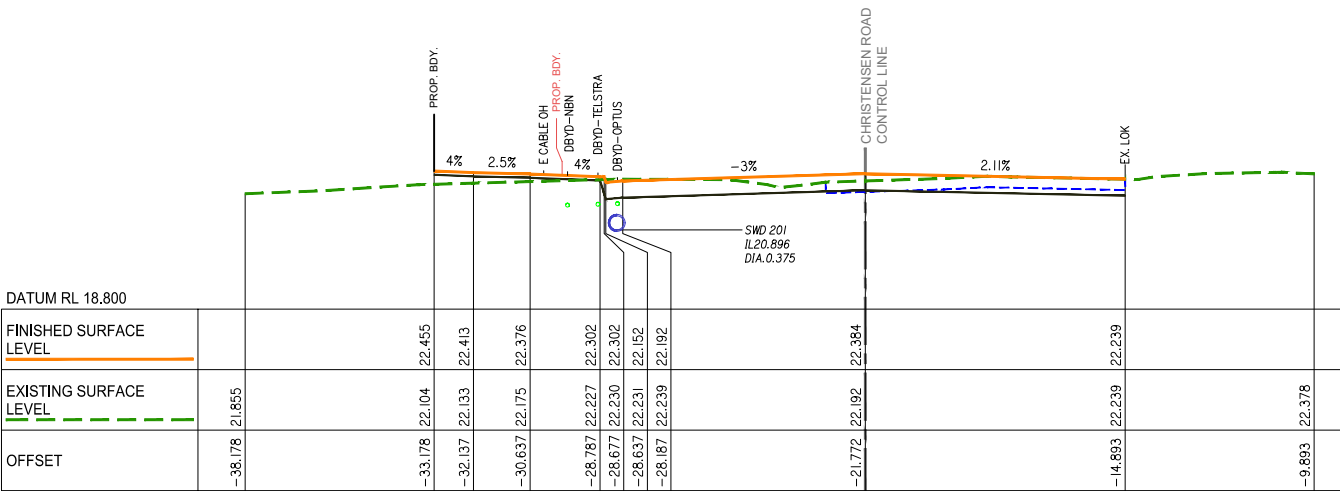
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 EXISTING ELECTRICAL / COMMUNICATIONS (DBYD)
 EXISTING STORMWATER DRAINAGE
 PROPOSED STORMWATER DRAINAGE
 EXISTING ROAD PAVEMENT
 PROPOSED PAVEMENT SUBGRADE LEVEL
 ORIGINAL PROPERTY BDY / PROPERTY BDY
 EXISTING LIP OF KERB / NEW LIP OF BI BARRIER KERB

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR KNOWN POSITIONS OF VALVES, MANHOLES ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.





LEGEND

- EXISTING ELECTRICAL / COMMUNICATIONS (DBYD)
- EXISTING STORMWATER DRAINAGE
- PROPOSED STORMWATER DRAINAGE
- EXISTING ROAD PAVEMENT
- PROPOSED PAVEMENT SUBGRADE LEVEL
- ORIGINAL PROPERTY BDY / PROPERTY BDY
- EXISTING LIP OF KERB / NEW LIP OF BI BARRIER KERB

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FRASERS PROPERTY

FRASERS PROPERTY (AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA

STAGE 2

EXTERNAL INTERSECTION

Site Address:

60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot: 501

Plan: SP295994

Local Authority: CITY OF GOLD COAST COUNCIL

Level Datum: AHD

Meridian: -

Contour Interval: -

PSM: -

RL: -

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DRAWING TITLE

CHRISTENSEN ROAD CROSS SECTIONS SHEET 2 OF 13

Issue	Date	Description	LAB	MG	DRN	CHK
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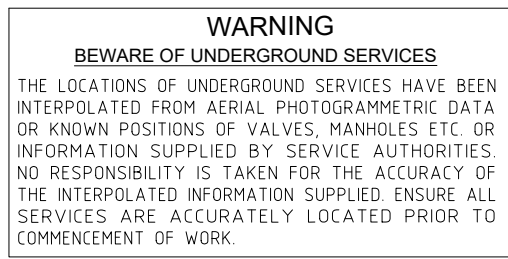
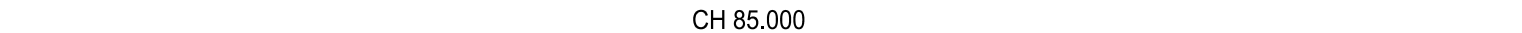
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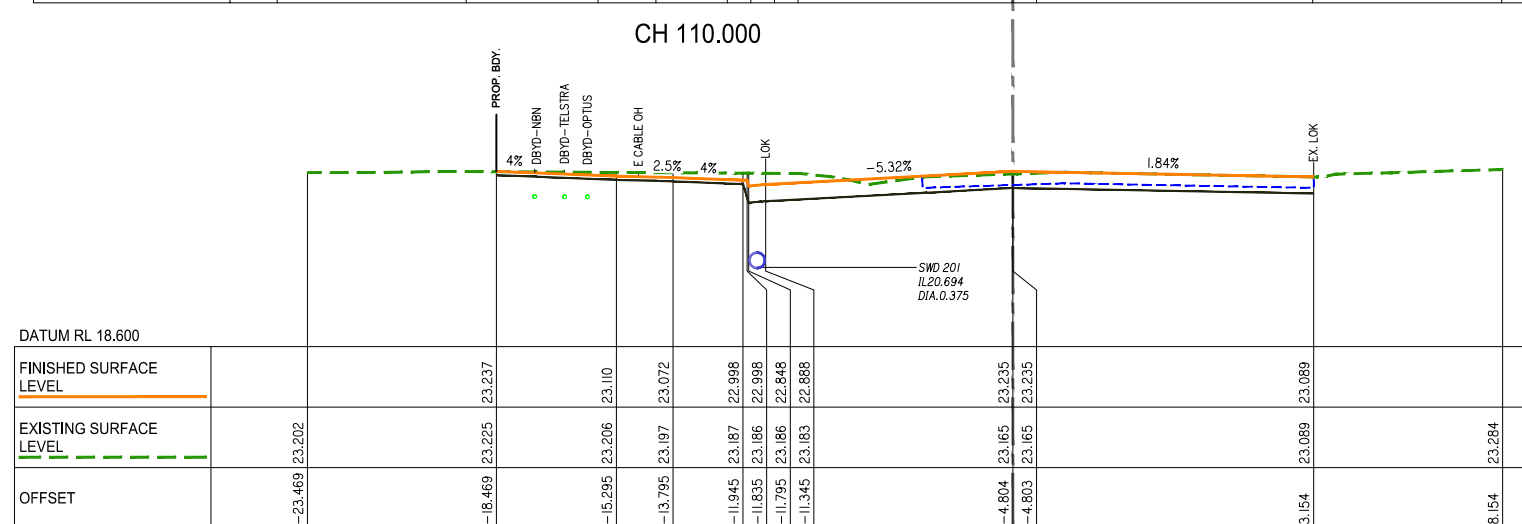
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Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

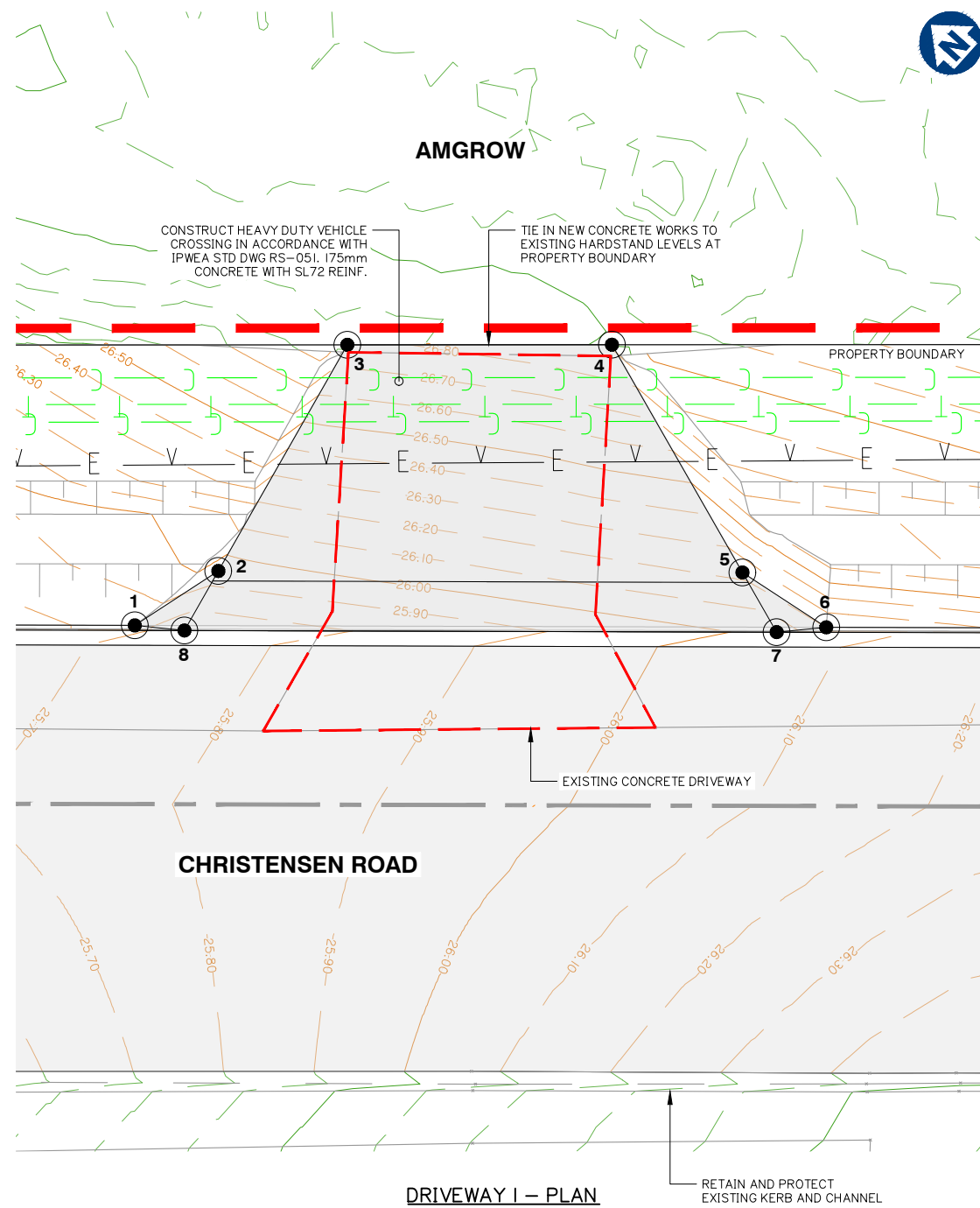
Drawing No: 5941 ENG EXTINT2 451

Rev. No: A

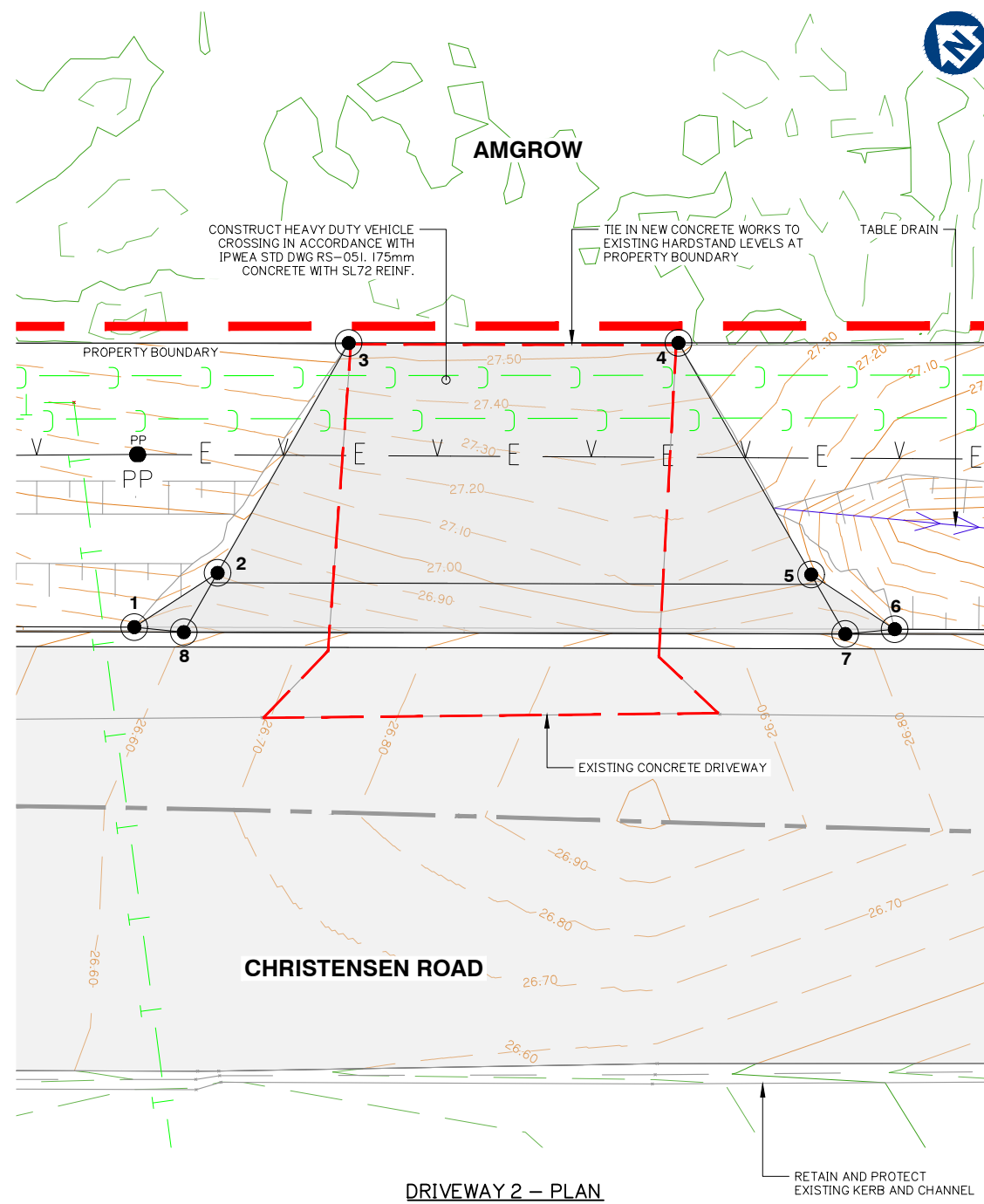




Drawing No:	Rev. No:
5941 ENG EXTINT2 454	A



SETOUT TABLE – DRIVEWAY I			
POINT I.D.	EASTING	NORTHING	FSL RL (m, AHD)
1	2452.278	6326.729	25.840
2	2455.188	6325.945	25.944
3	2462.880	6327.603	26.769
4	2468.223	6321.649	26.901
5	2465.734	6314.117	26.222
6	2466.192	6311.124	26.202
7	2465.082	6312.144	26.025
8	2453.165	6325.509	25.718



SETOUT TABLE – DRIVEWAY 2			
POINT I.D.	EASTING	NORTHING	FSL RL (m, AHD)
1	2479.873	6295.780	26.680
2	2482.782	6294.997	26.805
3	2490.624	6296.687	27.552
4	2497.303	6289.245	27.519
5	2494.763	6281.560	27.016
6	2495.221	6278.567	26.895
7	2494.111	6279.587	26.782
8	2480.760	6294.561	26.566

Client:



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Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
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RL: -

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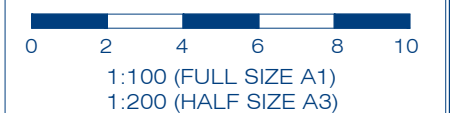
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DRAWING TITLE

DRIVEWAY SETOUT DETAILS

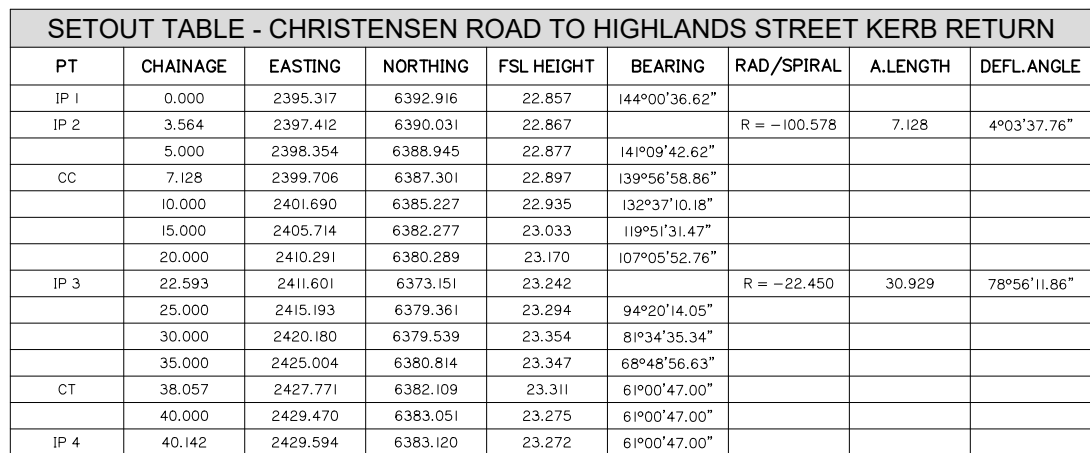
A	14-09-2021		ORIGINAL ISSUE	LAB	MG
Issue	Date		Description	DRN	CHK



Scale at A1:	1:100
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Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

Drawing No:	Rev. No:
5941 ENG OPW1 480	A



SETOUT TABLE - HIGHLANDS STREET TO CHRISTENSEN ROAD KERB RETURN								
PT	CHAINAGE	EASTING	NORTHING	FSL HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2438.775	6373.230	23.205	241°00'47.00"			
	5.000	2434.946	6370.059	23.344	219°42'48.63"			
IP 2	5.628	2433.543	6370.331	23.367		R = -13.450	11.256	47°56'57.35"
	10.000	2432.532	6365.713	23.564	198°24'50.27"			
CC	11.256	2432.191	6364.505	23.632	193°03'49.65"			
	15.000	2431.615	6360.809	23.864	184°38'05.10"			
IP 3	20.000	2431.702	6355.817	24.232	173°22'41.57"			
	23.445	2429.204	6351.632	24.465		R = -25.450	24.377	54°52'52.15"
	25.000	2432.761	6350.939	24.560	162°07'18.03"			
	30.000	2434.752	6346.361	24.827	150°51'54.49"			
IP 4	35.000	2437.599	6342.260	25.032	139°36'30.95"			
	35.633	2438.015	6341.783	25.053	138°10'57.50"			

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Client:					
 FRASERS PROPERTY FRASERS PROPERTY (AUSTRALIA) PTY. LTD.					
Project: VANTAGE YATALA STAGE 2 EXTERNAL INTERSECTION					
Site Address: 60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207 <i>THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR</i>					
RPD: Lot: 501 Plan: SP295994 Local Authority: CITY OF GOLD COAST COUNCIL Level Datum: AHD Meridian: - Contour Interval: - PSM: - RL: -					
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DRAWING TITLE CHRISTENSEN ROAD & HIGHLANDS STREET INTERSECTION DETAILS					
A Issue	14-09-2021 Date	ORIGINAL ISSUE Description		LAB DRN	MG CHK
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Designed:		IG			
Drafted:		LAB			
Approved:		MG			
RPEQ:		16939			
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Date:		14-09-2021			
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5941 ENG OPW1 490				A	



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Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

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ROAD, STAPYLTON QLD 4207

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Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

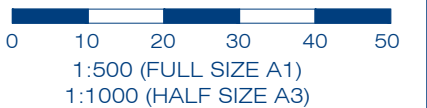
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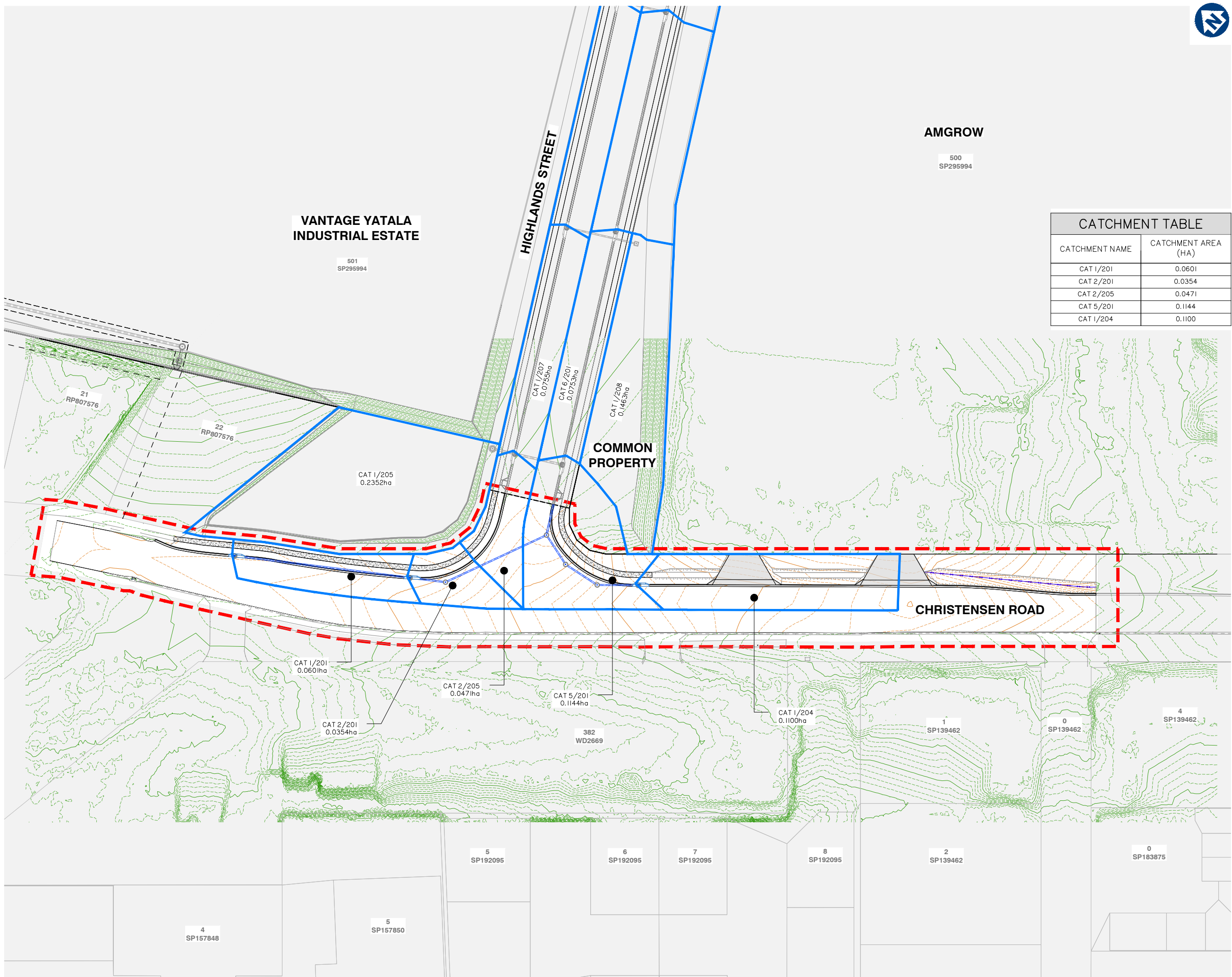
STORMWATER DRAINAGE CATCHMENT PLAN

[illegible]

Scale at A1: 1:500

Designed:	IG
Drafted:	LAB
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RPEQ:	16939
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Date:	14-09-2021

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STORMWATER DRAINAGE CATCHMENT PLAN

STORMWATER DRAINAGE LONGITUDINAL SECTIONS



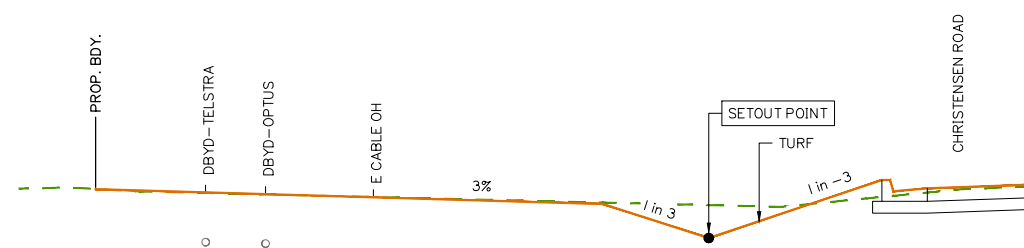
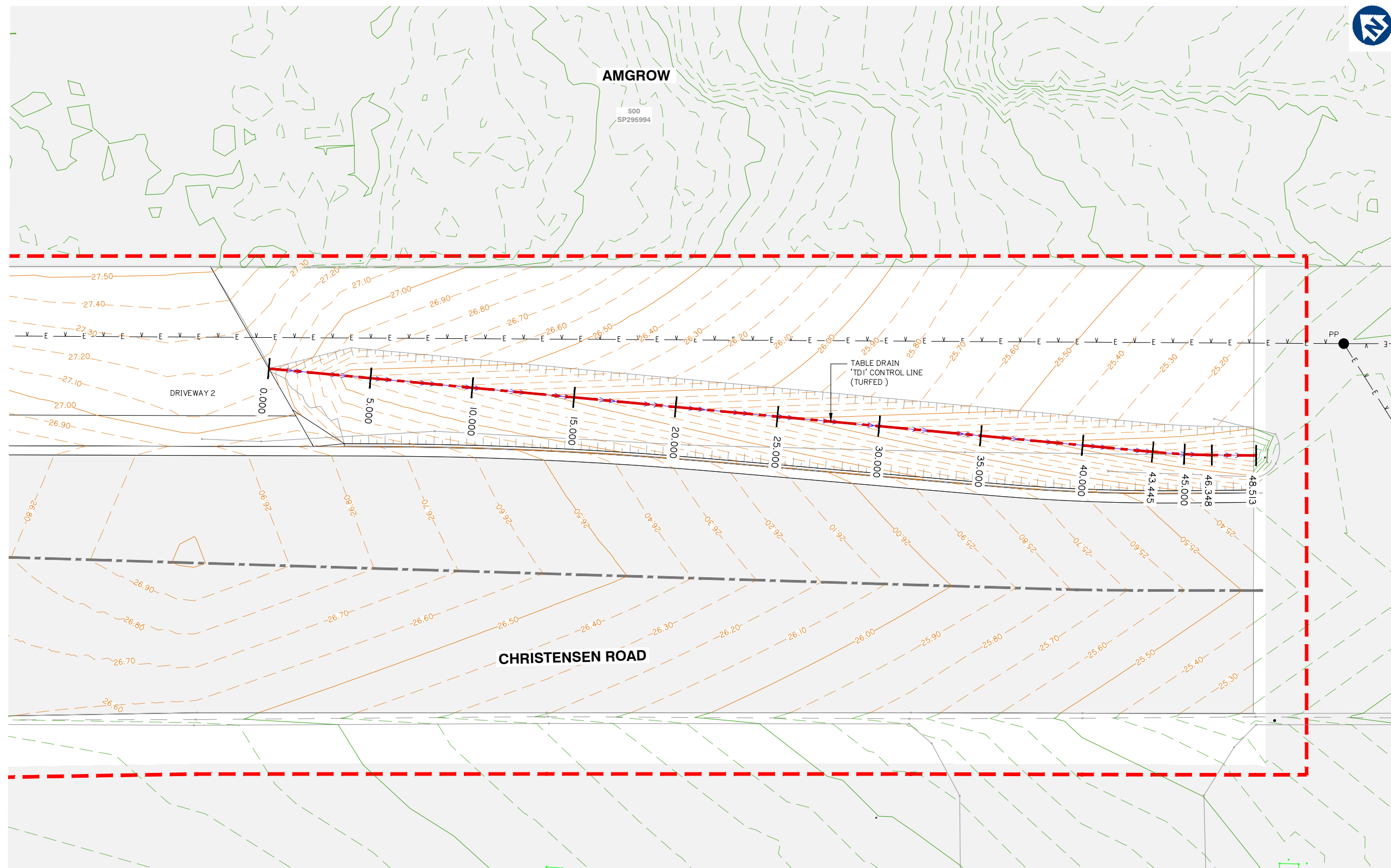


TABLE DRAIN - TYPICAL SECTION

SETOUT TABLE - TABLE DRAIN TD1								
PT	CHAINAGE	EASTING	NORTHING	INVERT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2495.493	6283.767	27.162	143°28'50.02"			
	5.000	2498.468	6279.749	26.359	143°28'50.02"			
	10.000	2501.444	6275.730	26.153	143°28'50.02"			
	15.000	2504.419	6271.712	25.948	143°28'50.02"			
	20.000	2507.395	6267.694	25.743	143°28'50.02"			
	25.000	2510.370	6263.676	25.537	143°28'50.02"			
	30.000	2513.346	6259.657	25.332	143°28'50.02"			
	35.000	2516.321	6255.639	25.126	143°28'50.02"			
TC	40.000	2519.297	6251.621	24.921	143°28'50.02"			
	43.445	2521.347	6248.852	24.779	143°28'50.02"			
IP 2	44.896	2522.211	6247.685	24.720		R = -35.000	2.903	4°45'10.20"
	45.000	2522.300	6247.623	24.715	140°56'04.50"			
CT	46.348	2523.169	6246.593	24.660	138°43'39.82"			
JP 3	48.513	2524.597	6244.966	24.571	138°43'39.82"			

TABLE DRAIN SETOUT PLAN

Client:



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Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
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ROAD, STAPYLTON QLD 4207

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Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
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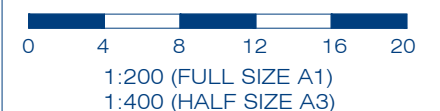
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DRAWING TITLE

TABLE DRAIN SETOUT PLAN

A	14-09-2021	ORIGINAL ISSUE	LAB	MG
Issue Date	Date	Description	DRN	Cash

SCALE IN METRES



Scale at A1:	1:100
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Designed:	IG
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Drafted:	LAB
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Approved:	MG
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RPEQ:	16939
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Date:	14-09-2021
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Drawing No:	Rev. No:
5941 ENG OPW1 511	A

Site Address:
60 STAPYLTON JACOBS WEL
ROAD, STAPYLTON QLD 4207

RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
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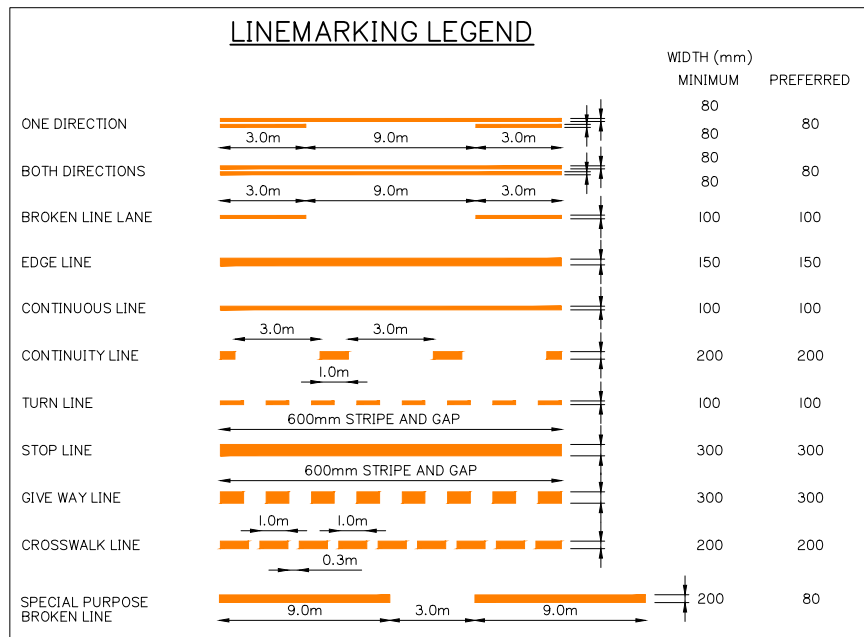
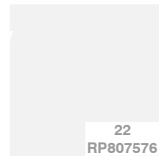
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Scale at A1:	NTS
Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

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STORMWATER DRAINAGE CALCULATION TABLES

1. SIGNS AND LINE MARKING TO BE INSTALLED IN ACCORDANCE WITH MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. INSTALL ROAD EDGE GUIDE POSTS AT 10.0m SPACING TO ANY SEALED SHOULDER IN THE ABSENCE OF A KERB OR GUARDRAIL. INSTALLATION TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND DTMR STD DWG 1356-D. LOCATE FLEXIBLE PVC TYPE WITH REFLECTORS ON EDGE OF SEALED SHOULDER.
3. ALL LONGITUDINAL LINES TO BE WATERBORNE PAINT UNLESS INDICATED OTHERWISE. LONGITUDINAL LINES ARE TO BE INSTALLED IN ACCORDANCE WITH DTMR SPECIFICATIONS.
4. ALL TRANSVERSE LINES TO BE THERMOPLASTIC PAINT UNLESS INDICATED OTHERWISE. TRANSVERSE LINES ARE TO BE INSTALLED IN ACCORDANCE WITH DTMR SPECIFICATION.
5. PAVEMENT MARKING ARROWS TO BE THERMOPLASTIC IN ACCORDANCE WITH DTMR SPECIFICATION.
6. ALL SIGN MATERIAL TO BE CLASS I.
7. ALL LINE MARKING AND SIGNAGE TO BE IN ACCORDANCE WITH THE T.R.U.M AND MUTCD PART 2.
8. EXISTING LINE MARKING REMOVAL TO BE DONE AS PER MRTS45 REQUIREMENTS.
9. RAISED REFLECTIVE PAVEMENT MARKERS TO BE INSTALLED AS PER MUTCD PART 2 – SECTION 5.6 REQUIREMENTS.
10. PAINT THE KERB OF SPLITTER ISLANDS WITH WHITE REFLECTIVE PAINT WHERE ISLANDS ARE LESS THAN 1.8m WIDE.
11. PAINT FULL 100mm WIDE WHITE LINES AROUND MEDIAN ISLANDS
12. PAVEMENT TIE-IN TO SMOOTH TRANSITION TO EXISTING PAVEMENT AND / OR ADJACENT PAVEMENT TYPE. ON TRANSVERSE LEVEL DIFFERENCES, CONTRACTOR TO FEATHER ASPHALT TO EXISTING SURFACE.
13. ALL PROFILING SHALL NOT BE EXPOSED TO TRAFFIC FOR LONGER THAN 48 HOURS UNLESS DIRECTED BY THE SUPERINTENDENT.
14. TEMPORARY RAMPS SHALL BE CONSTRUCTED BEYOND THE LIMIT OF WORKS TO FACILITATE WORKS AND BE REMOVED (BY MILLING) AND THE PAVEMENT EXTENDED TO THE LIMIT OF WORKS AT COMPLETION.
15. HEIGHTS OF SIGNAGE TO BE PLACED A MINIMUM OF 2.50m TO BOTTOM OF SIGN ABOVE THE FOOTWAY LEVEL IN ACCORDANCE WITH MUTCD SECTION 1.12.3.5. SIGNAGE AT PEDESTRIAN CROSSINGS TO MAINTAIN PED/VEHICLE SIGHT LINES IN THE EVENT OF SIGNAL MALFUNCTION.



501
SP295994

HIGHLANDS STREET

COMMON PROPERTY

CHRISTENSEN ROAD

CHRISTENSEN ROAD

BARRIER LINE ONE DIRECTION	(ODBL)
BARRIER LINE BOTH DIRECTIONS	(DBL)
BROKEN LINE LANE	(BLL)
SPECIAL PURPOSE BROKEN LINE	(SBLL)
CONTINUOUS LANE LINE	(CLL)
EDGE LINE	(EL)
CONTINUITY LINE	(CL)
TURN LINE	(TL)
STOP LINE	(SL)
GIVE WAY LINE	(GWL)
EXCLUSIVE LEFT TURN ARROW	(PA-L)
EXCLUSIVE RIGHT TURN ARROW	(PA-R)
COMBINED STRAIGHT AHEAD AND LEFT TURN ARROW	(PA-SAL)
COMBINED STRAIGHT AHEAD AND RIGHT TURN ARROW	(PA-SAR)
BICYCLE LANE SYMBOL FOR ON-ROAD USE	(PS-2)
MERGE RIGHT ARROW	(PA-MR)
PEDESTRIAN CROSSWALK LINE	(PCW)

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Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
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LINEMARKING AND SIGNAGE
PLAN SHEET 1 OF 2

A	14-09-2021	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CH



1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

Designed:	IG
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Drafted:	LAB
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Approved:	MG
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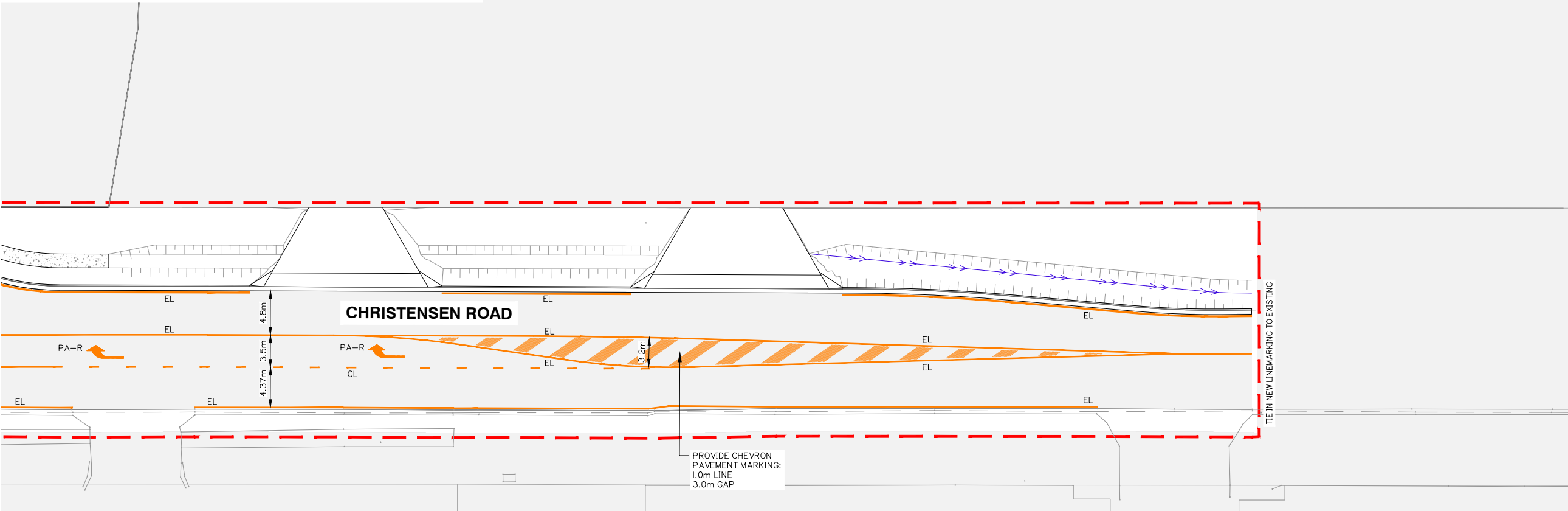
RPEQ:	16930
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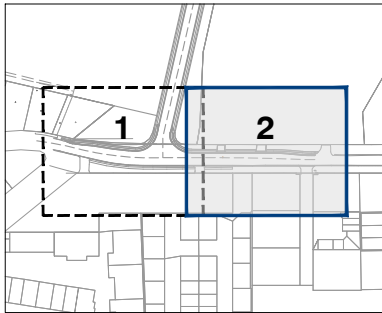
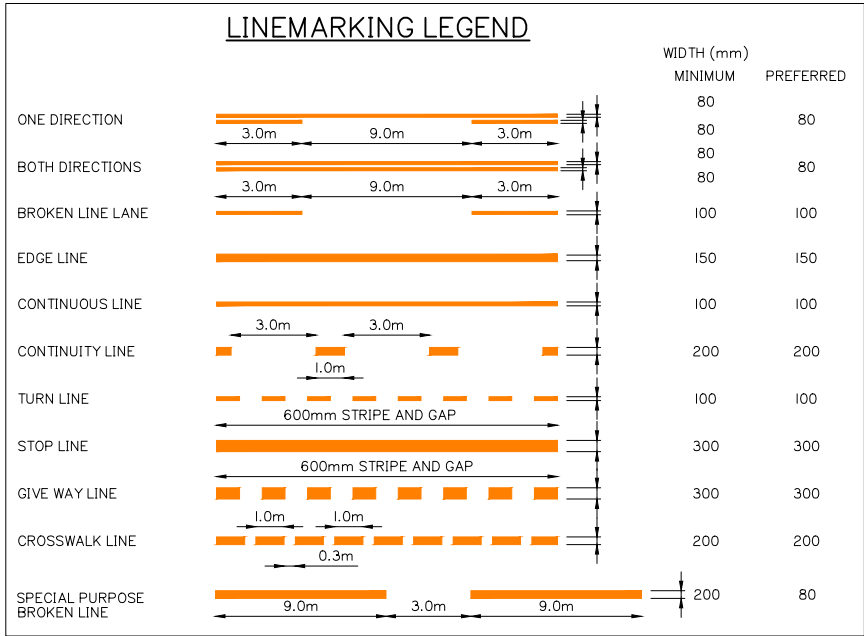
Date:	14-09-2021
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Drawing No:	Rev. No:
5941 ENG EXTINT2 800	A

1. SIGNS AND LINE MARKING TO BE INSTALLED IN ACCORDANCE WITH MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. INSTALL ROAD EDGE GUIDE POSTS AT 10.0m SPACING TO ANY SEALED SHOULDER IN THE ABSENCE OF A KERB OR GUARDRAIL. INSTALLATION TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND DTMR STD DWG 1356-D. LOCATE FLEXIBLE PVC TYPE WITH REFLECTORS ON EDGE OF SEALED SHOULDER.
3. ALL LONGITUDINAL LINES TO BE WATERBORNE PAINT UNLESS INDICATED OTHERWISE. LONGITUDINAL LINES ARE TO BE INSTALLED IN ACCORDANCE WITH DTMR SPECIFICATIONS.
4. ALL TRANSVERSE LINES TO BE THERMOPLASTIC PAINT UNLESS INDICATED OTHERWISE. TRANSVERSE LINES ARE TO BE INSTALLED IN ACCORDANCE WITH DTMR SPECIFICATION.
5. PAVEMENT MARKING ARROWS TO BE THERMOPLASTIC IN ACCORDANCE WITH DTMR SPECIFICATION.
6. ALL SIGN MATERIAL TO BE CLASS 1.
7. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH THE T.R.U.M AND MUTCD PART 2.
8. EXISTING LINEMARKING REMOVAL TO BE DONE AS PER MRTS45 REQUIREMENTS.
9. RAISED REFLECTIVE PAVEMENT MARKERS TO BE INSTALLED AS PER MUTCD PART 2 – SECTION 5.6 REQUIREMENTS.
10. PAINT THE KERB OF SPLITTER ISLANDS WITH WHITE REFLECTIVE PAINT WHERE ISLANDS ARE LESS THAN 1.8m WIDE.
11. PAINT FULL 100mm WIDE WHITE LINES AROUND MEDIAN ISLANDS
12. PAVEMENT TIE-IN TO SMOOTH TRANSITION TO EXISTING PAVEMENT AND / OR ADJACENT PAVEMENT TYPE. ON TRANSVERSE LEVEL DIFFERENCES, CONTRACTOR TO FEATHER ASPHALT TO EXISTING SURFACE.
13. ALL PROFILING SHALL NOT BE EXPOSED TO TRAFFIC FOR LONGER THAN 48 HOURS UNLESS DIRECTED BY THE SUPERINTENDENT.
14. TEMPORARY RAMPS SHALL BE CONSTRUCTED BEYOND THE LIMIT OF WORKS TO FACILITATE WORKS AND BE REMOVED (BY MILLING) AND THE PAVEMENT EXTENDED TO THE LIMIT OF WORKS AT COMPLETION.
15. HEIGHTS OF SIGNAGE TO BE PLACED A MINIMUM OF 2.50m TO BOTTOM OF SIGN ABOVE THE FOOTWAY LEVEL IN ACCORDANCE WITH MUTCD SECTION 1.2.3.5. SIGNAGE AT PEDESTRIAN CROSSINGS TO MAINTAIN PED /VEHICLE SIGHT LINES IN THE EVENT OF SIGNAL MALFUNCTION.



<u>PAVEMENT MARKING ABBREVIATIONS</u>	
BARRIER LINE ONE DIRECTION	(ODBL)
BARRIER LINE BOTH DIRECTIONS	(DBL)
BROKEN LINE LANE	(BLL)
SPECIAL PURPOSE BROKEN LINE	(SBLL)
CONTINUOUS LANE LINE	(CLL)
EDGE LINE	(EL)
CONTINUITY LINE	(CL)
TURN LINE	(TL)
STOP LINE	(SL)
GIVE WAY LINE	(GWL)
EXCLUSIVE LEFT TURN ARROW	(PA-L)
EXCLUSIVE RIGHT TURN ARROW	(PA-R)
COMBINED STRAIGHT AHEAD AND LEFT TURN ARROW	(PA-SAL)
COMBINED STRAIGHT AHEAD AND RIGHT TURN ARROW	(PA-SAR)
BICYCLE LANE SYMBOL FOR ON-ROAD USE	(PS-2)
MERGE RIGHT ARROW	(PA-MR)
PEDESTRIAN CROSSWALK LINE	(PCW)



KEY PLAN

SCALE 1:4000

AMGROW

501
SP295994



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Client:



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(AUSTRALIA) PTY. LTD

Project: VANTAGE YATALA
STAGE 2
EXTERNAL INTERSECTION

Site Address:
60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

LINEMARKING AND SIGNAGE PLAN SHEET 2 OF 2

A	14-09-2021	ORIGINAL ISSUE		LAB	MG
Issue	Date	Description		DRN	CHK



1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

Designed:	IG
Drafted:	LAB
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-09-2021

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DRAWING TITLE

A-DOUBLE SWEEP PATH
ANALYSIS SHEET 2 OF 4

A	14-09-2021	ORIGINAL ISSUE	LAB	MG
ISSUE	Date	Description	DRN	CHK



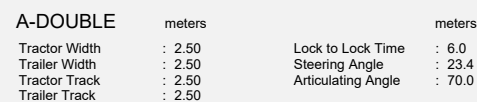
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1:500 (HALF SIZE A3)

Scale at A1: 1:500

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Drafted:	LAB
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RPEQ:	16939
Signed:	
Date:	14-09-2021

Drawing No:	Rev. No:
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VANTAGE YATALA INDUSTRIAL ESTATE

501
SP295994

AMGROW

500
SP295994

22
BP807576

207

CHRISTENSEN ROAD

382
WD2669

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DRAWING TITLE

A-DOUBLE SWEEP PATH
ANALYSIS SHEET 4 OF 4

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1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
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Drafted:	LAB
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Approved:	MG
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RPEQ:	16939
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Signed:	
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A-DOUBLE SWEPT PATH ANALYSIS SHEET 4 OF 4