



PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS

SHAPHERDSONS ROAD, BILOELA QLD 4715



LOCALITY PLAN
SCALE A1 - N.T.S.
A3 - N.T.S.

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Notes:			 MTS - Banana Shire Council a/MIW - Banana Shire Council DIS Review - Banana Shire Council Drawn: SAMANTHA WILSON Designed: CHASE KEMP Certified: CHARLES COOK EMAIL: admin@hartecs.com.au RPEQ #: 8480 OFFICE: ROCKHAMPTON			PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS SHEPHERDSONS RD, BILOELA, QLD 4715 (REF: VP381329) LOCALITY PLAN AND SCHEDULE OF DRAWINGS		
A	FOR APPROVAL	05.08.24						
No.	Revision	Date						

IMPORTANT NOTICE

- GN.1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH RELEVANT COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS UNLESS DIRECTED OTHERWISE.
- GN.2. THE CONTRACTOR MUST AT ALL TIMES ADOPT 'SAFE' WORK PRACTICES, CONSTRUCTION TECHNIQUES & MUST ENSURE THAT THE SITE IS ALWAYS MANAGED IN A MANNER THAT ENSURES THE SAFETY & WELL BEING OF PROPERTY, ENVIRONMENT & PERSONNEL AND OTHERS ENTERING THE SITE & ADJACENT TO THE SITE. A 'ZERO HARM' POLICY IS REQUIRED TO BE ENFORCED AT ALL TIMES.
- GN.3. HARTECS GROUP ACCEPTS NO RESPONSIBILITY WHATSOEVER FOR ANY LOSS OR DAMAGE SUFFERED HOWSOEVER ARISING TO ANY PERSON OR CORPORATION WHO MAY RELY ON OR USE THESE DRAWINGS IN CONTRAVENTION OF THE TERMS OF ANY NOTES SHOWN ON THIS SET OF DRAWINGS.
- GN.4. THESE NOTES FORM AN INTEGRAL PART OF THIS SET OF DRAWINGS.
- GN.5. SAFETY IN DESIGN INFORMATION. THE CONTRACTOR IS ADVISED THAT THERE MAY BE ADDITIONAL HAZARDS/RISKS NOT NORMALLY ASSOCIATED OR INFERRED WITH THE TYPE OF WORKS DETAILED ON THESE DRAWINGS

EXISTING LEVELS AND SERVICES

- ES.1. NO WORK IS TO BE STARTED WITHIN 3m OF EXISTING SERVICES PRIOR TO NOTIFYING THE RELEVANT SERVICE AUTHORITY. DETAILS OF EXISTING SERVICES INCLUDING LOCATIONS POSITION AND LEVEL THAT HAVE ALREADY BEEN DETERMINED ARE SHOWN ON THE DRAWINGS. PRIOR TO COMMENCING CONSTRUCTION WORKS THE CONTRACTOR SHALL OBTAIN THE NECESSARY SERVICE DETAILS FROM 'DIAL BEFORE YOU DIG' AND THE SERVICE AUTHORITY FOR ALL SERVICES SHOWN ON THE DRAWINGS AND ANY OTHERS STILL TO BE LOCATED. ANY WORKS WITHIN THE VICINITY OF EXISTING SERVICES INCLUDING ANY REQUIREMENTS FOR PROTECTION WORKS TO THE SERVICES SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE SERVICE AUTHORITY.
- ES.2. THE CONTRACTOR MUST VERIFY THAT THE EXISTING LEVELS AT POINTS WHERE CONNECTIONS TO EXISTING INFRASTRUCTURE ARE REQUIRED ARE AS PER THIS DESIGN. ANY DIFFERENCES TO BE NOTIFIED TO THE COUNCIL TO ORDERING MATERIALS OR COMMENCING ANY WORKS.
- ES.3. PRIOR TO COMMENCING WORKS THE CONTRACTOR MUST VERIFY LOCATION AND DETAILS OF ALL EXISTING SERVICES,

ENVIRONMENTAL MANAGEMENT

- EM.1. THE CONTRACTOR IS DEEMED TO BE FAMILIAR WITH THE CURRENT ENVIRONMENTAL LAWS AND HIS LEGAL RESPONSIBILITIES AND LIABILITIES UNDER THE LAWS.
- EM.2. THE CONTRACTOR IS DEEMED TO BE RESPONSIBLE FOR THE ENVIRONMENTAL MANAGEMENT OF THE SITE FOR THE DURATION OF THE CONTRACT AND IS RESPONSIBLE FOR ANY BREACHES TO THE LAWS.
- EM.3. THE CONTRACTOR MUST HAVE AND MAINTAIN IN FORCE AN ENVIRONMENTAL MANAGEMENT PLAN FOR THE DURATION OF THE CONTRACT WHICH SHALL INCORPORATE BUT NOT BE LIMITED TO ANY SEDIMENT AND EROSION CONTROL REQUIREMENTS INCLUDED IN THE CONTRACT DOCUMENTATION.
- EM.4. ENVIRONMENTAL LAW REQUIRES THE CONTRACTOR TO EXERCISE DUE DILIGENCE IN PREVENTING THE OPERATIONS OF HIS PERSONEL AND OTHERS WHO ENTER THE SITE WITH OR WITHOUT HIS PERMISSION FROM BREACHING ENVIRONMENTAL LAWS.
- EM.5. ANY BREACH TO THE LAWS MUST BE REPORTED TO THE APPROPRIATE AUTHORITIES AS SOON AS POSSIBLE.

STANDARD DRAWINGS

- SD.1. UNLESS NOTED OTHERWISE REFERENCES TO STANDARD DRAWINGS "STD DWG" ARE CMDG AND AUSTRROADS STD DWGS.

ROADWORKS

- RW.1. ALL ROADWORK SETOUT AND LEVELS MUST BE CONFIRMED ON SITE PRIOR TO COMMENCING ANY CONSTRUCTION.
- RW.2. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- RW.3. EXISTING SIGNAGE AND GUIDE POSTS MAY NOT HAVE BEEN SURVEYED. ALL AFFECTED SIGNAGE TO BE RELOCATED TO SUIT NEW ROADWORKS AS APPROVED BY ADMINISTRATOR.
- RW.4. THE CONTRACTOR IS TO SELECT APPROPRIATE CONSTRUCTION TECHNIQUES AND COMPACTION EQUIPMENT IN THE VICINITY OF UNDERGROUND PIPES & SERVICES TO ENSURE NO DAMAGE OR DEFORMATION OF THE UNDERGROUND SERVICE.

EARTHWORKS

GENERAL:

- EW.1. THESE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH SPECIFICATIONS AND AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
- EW.2. EARTHWORKS SHOULD AVOID THE EROSION OR SILTATION OF ADJOINING LANDS, STORMWATER SYSTEMS OR WATERCOURSES. REFER CONCEPT EROSION AND SEDIMENT CONTROL NOTES (ES01). ALL EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND FULLY OPERATIONAL PRIOR TO COMMENCEMENT OF EARTHWORKS.
- EW.3. ALL EARTHWORKS ACTIVITIES INCLUDING STRIPPING, EXCAVATION, FILLING, COMPACTION AND

TESTING, IS TO BE UNDERTAKEN IN ACCORDANCE WITH MRTS04, THE DRAWINGS, SPECIFICATIONS, CURRENT RELEVANT AUSTRALIAN STANDARDS, OTHER STATUTORY REQUIREMENTS AND TO THE SATISFACTION OF THE LOCAL AUTHORITY AND THE ENGINEER.

- EW.4. EARTHWORKS QUANTITIES HAVE BEEN CALCULATED BETWEEN THE STRIPPED NATURAL SURFACE AND THE FINISHED SUBGRADE LEVELS. EXCESS SPOIL TO BE TRANSPORTED TO A LOCATION CONFIRMED BY COUNCIL.

EW.4.1. ROAD EMBANKMENTS SHALL ACHIEVE THE FOLLOWING MINIMUM STANDARDS.

EW.4.1.1. GREATER THAN OR EQUAL TO 0.3m BELOW PAVEMENT SUBGRADE: 95% STD. M.D.D.R.

EW.4.1.2. LESS THAN 0.3m BELOW PAVEMENT SUBGRADE: 100% STD. M.D.D.R.

EW.4.1.3. NON COHESIVE MATERIALS:- FILL SHALL ACHIEVE A MINIMUM DENSITY INDEX RATIO OF 75%.

EW.5. GEOTECHNICAL CERTIFICATION SHALL BE 'LEVEL 1' AS PER AS3798.

TOPSOIL:

EW.6. PRIOR TO ANY EARTHWORKS ACTIVITIES, TREE STUMPS, BUILDING DEBRIS, ORGANIC RICH TOPSOIL AND SEVERELY ROOT AFFECTED AREAS MUST BE REMOVED.

EW.7. ORGANIC RICH TOPSOIL MUST NOT BE USED IN FILL. IT SHALL BE STOCKPILED FOR RE-USE IN LANDSCAPING OR DISPOSED OF. TOPSOIL STOCKPILES SHALL NOT EXCEED 2.0m IN HEIGHT.

STOCKPILE MANAGEMENT:

EW.8. CONTRACTOR TO ENSURE STOCKPILES ARE NOT LOCATED IN A POSITION WHERE THEY COULD BE WASHED INTO A GUTTER, DRAIN OR WATER BODY, SUCH AS:

EW.8.1. ON A ROAD PAVEMENT;

EW.8.2. WITHIN AN OVERLAND FLOW PATH;

EW.8.3. ADJACENT TO WATER COURSES.

EW.9. CONTRACTOR TO ENSURE STOCKPILES ARE COVERED WITH A TARP OR OTHER IMPERVIOUS COVER. LONG TERM STOCKPILES CAN BE COVERED WITH MULCH OR TEMPORARY VEGETATION (GRASS).

EW.10. CONTRACTOR TO ENSURE APPROPRIATE DUST CONTROL MEASURES EXIST FOR ALL STOCKPILES AND APPROPRIATE SEDIMENT CONTROLS ARE LOCATED DOWN-SLOPE OF ALL STOCKPILES.

ACID SULPHATE SOILS

EW.11. ACID SULPHATE SOILS ARE PREDOMINANTLY FOUND IN COASTAL AREAS WHERE THE ELEVATION IS LESS THAN 5.0m ABOVE SEA LEVEL.

EW.12. EXPOSURE OF POTENTIAL ACID SULPHATE SOILS (ABOVE THE WATER TABLE) EXCEEDING 24 HOURS REQUIRES TREATMENT.

EW.13. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL SITE GEOTECHNICAL REPORTING, TO BE UNDERTAKEN AND SUPPLIED.

GEOTEXTILES

EW.14. GEOTEXTILE SHALL BE THE APPROPRIATE STRENGTH CLASS AND FILTRATION CLASS COMPLYING WITH THE REQUIREMENTS OF MRTS27.

EW.15. GEOTEXTILES USED IN PAVING APPLICATIONS SHALL BE IN ACCORDANCE WITH MRTS57.

EW.16. GEOTEXTILES SHALL BE FREE OF ANY FLAWS.

EW.17. THE AREA ON WHICH THE GEOTEXTILE IS TO BE PLACED CLEAR OF ALL SHARP OBJECTS AND LARGE ROCKS. NO CONSTRUCTION EQUIPMENT SHALL STAND OR TRAVEL DIRECTLY ON THE LAID GEOTEXTILE.

SITE REHABILITATION:

EW.18. ENSURE THE SOIL SURFACE IS SCARIFIED PRIOR TO THE PLACEMENT OF TOPSOIL TO BREAK UP ANY EXCESSIVE COMPACTION, AND ENABLE THE APPROPRIATE KEYING OF THE SOIL LAYERS.

EW.19. SCARIFY LIGHTLY COMPACTED SOILS TO A MINIMUM DEPTH OF 100mm AND HEAVILY COMPACTED SUBSOIL TO A MINIMUM DEPTH OF 300mm.

EW.20. TURF MUST NOT BE PLACED ON EXCESSIVELY COMPACTED SOILS.

EW.21. SOIL TESTING SHOULD BE USED TO DETERMINE ANY REQUIRED CHEMICAL ADJUSTMENT TO THE SOIL (E.G. GYPSUM, LIME, FERTILISER, PH ADJUSTMENTS).

EW.22. THE CONTRACTOR SHALL MONITOR ALL SITE REHABILITATION MEASURES, PARTICULARLY AFTER RAINFALL.

LEGEND:

EXISTING	DESIGN	
		RP BOUNDARY
		LIMIT OF WORKS
		ROAD CENTRELINE/CONTROL INE
		KERB & CMDG TYPE
		EARTHWORKS BATTER
		TRAIN CORRIDOR
		CONTOUR MAJOR
		FENCE
		EXISTING VEGETATION BORDER
		SWD
		CHANNEL/SWALE/TABLE DRAIN INVERT
		FLOOD MAP WATER WAY
		CATCHMENT BOUNDARY
		MANHOLE
		HEADWALL
		GULLY PIT - SAG / ON-GRADE
		FIELD INLET
		SEWER EFFLUENT MAIN
		SEWER GRAVITY MAIN
		SEWER RISING MAIN
		ELECTRICAL UG
		ELECTRICAL & STAYWIRES OH
		COMMUNICATIONS / NBN



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

ABBR.	DESCRIPTION
PR	PROPOSED
EX	EXISTING
ELEC	ELECTRICITY
STRM	STORMWATER
WATR	WATER
SEWR	SEWER
TELS	TELSTRA
EFF	EFFLUENT
NDW	NON DRINKING WATER
COMMS	COMMUNICATION
STD.	STANDARD
DWG.	DRAWING
HV	HIGH VOLTAGE
IPWEA	INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA
RP BDY	REAL PROPERTY BOUNDARY
CP	COMMON PROPERTY
ESL	EXISTING SURFACE LEVEL
FSL	FINISHED SURFACE LEVEL
RL	REDUCED LEVEL
FL	EARTHWORKS FINISHED LEVEL
PL	FINISHED PAVEMENT LEVEL
GL	GARAGE FLOOR LEVEL
LL	LIP LEVEL OF KERB
BOW	BOTTOM OF WALL
TOW	TOP OF WALL
DTMR	DEPARTMENT OF TRANSPORT AND MAIN ROADS
FRC	FRASER COAST REGIONAL COUNCIL

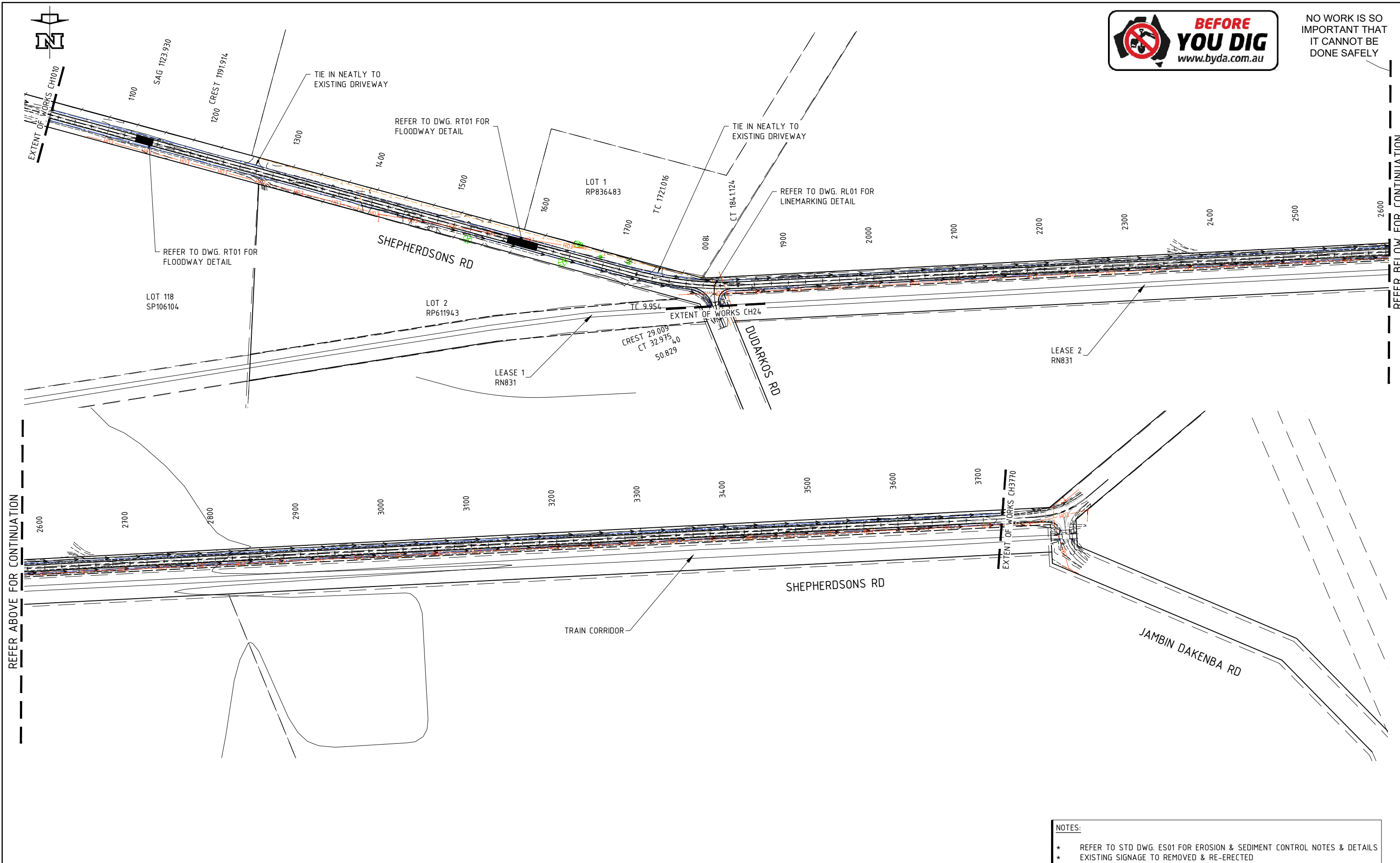
TYPE	ASSET OWNER	CONTACT
ELECTRICAL	ERGON QLD	13 10 46
COMMUNICATIONS	TELSTRA QLD REGIONAL	1800 653 935
RAIL CORRIDOR	AURIZON NETWORK PTY LTD	(07) 3019 7969

WARNING
NOTE: EXISTING SERVICES SHOWN IN AREA OF WORKS ARE LEVEL D PER AS5488 AND ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION

Notes:		 MTS - Banana Shire Council a/MIW - Banana Shire Council DIS Review - Banana Shire Council Drawn: SAMANTHA WILSON Designed: CHASE KEMP Certified: CHARLES COOK RPEQ #: 8480	 PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS SHEPHERDSONS RD, BILOELA GENERAL NOTES AND LEGEND	Scale	Dwg. No.	Sheet	Issue
A	FOR APPROVAL			05.08.24	PRJ-0342-01-GN02	02 OF 19	A



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REFER ABOVE FOR CONTINUATION

REFER BELOW FOR CONTINUATION

NOTES:
* REFER TO STD DWG. ES01 FOR EROSION & SEDIMENT CONTROL NOTES & DETAILS
* EXISTING SIGNAGE TO REMOVED & RE-ERECTED

PLAN
SCALE A1 - 1 : 2000
A3 - 1 : 4000

Notes:	
TO BE READ IN CONJUNCTION WITH DRAWING GN02. COUNCIL REFERENCE CHAINAGE IS CHO. AT E. 24d 24' 20.241288"S N. 150d 32' 7.2708"E	
A	FOR APPROVAL
	05.08.28
No.	Revision
	Date

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 a/MIW - Banana Shire Council
 DIS Review - Banana Shire Council
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Banana SHIRE
SHIRE OF OPPORTUNITY

PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
 SHEPHERDSONS RD, BILOELA
 SITE PLAN

Scale 20 0 20 40 60 80 100m
SCALE 1:2000

Dwg. No. PRJ-0342-01-GN03
 Sheet 03 OF 19
 Issue A

Scale 20 0 20 40 60 80 100m	
SCALE 1:2000	
Dwg. No.	PRJ-0342-01-GN03
Sheet	03 OF 19
Issue	A



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

SOIL & WATER MANAGEMENT PLAN

OBJECTIVES OF THIS PLAN

- TO MINIMISE DISTURBANCE OF THE SITE BY RESTRICTING ACCESS TO THOSE AREAS OF THE SITE NOT REQUIRED AS PART OF THE ROADWORK.
- TO LOCATE STOCKPILES IN AREAS WHERE THEY WILL NOT IMPEDE THE FLOW OF WATER SO AS TO MINIMISE LOSS OF MATERIALS FROM THE STOCKPILE AND SUBSEQUENT MOBILISATION OF SEDIMENTS.
- TO DIVERT/CAPTURE RUNOFF FROM AREAS OF DISTURBANCE & STOCKPILE AREAS IN SEDIMENT TRAPS PRIOR TO DISCHARGING OFF SITE.
- TO AS FAR AS PRACTICAL DIVERT WATER FROM AREAS NOT PART OF THE OPERATIONS AWAY FROM OPERATIONAL AREAS - SEPARATE 'CLEAN' & 'DIRTY' WATER.
- TO CONTROL AND MANAGE DUST AND NOISE GENERATED AS A RESULT OF SITE OPERATIONS.
- TO ENSURE THAT GENERAL RUBBISH GENERATED BY THE SITE & IT'S WORKERS & SUBCONTRACTORS ETC IS PROPERLY STORED ON SITE & DISPOSED OF IN THE CORRECT MANNER BY TRANSPORTING TO AN AUTHORISED LAND FILL SITE.
- TO ENSURE THAT GENERAL MATERIALS SUCH AS SAND, CEMENT, FUEL, OILS, PAINT ETC ARE STORED IN A PROPER MANNER & LOCATED SO AS NOT TO POLLUTE THE SURROUNDING AREA IN THE EVENT OF AN ACCIDENTAL SPILL.
- TO PUT IN PLACE APPROPRIATE MEASURES TO PREVENT AT ALL TIMES THE UNCONTROLLED TRANSPORTATION/HAULAGE OF MATERIALS OFF SITE & SUBSEQUENT POLLUTING OF THE ENVIRONS
- TO MONITOR THE IMPLEMENTATION OF THIS PLAN & ADJUST MEASURES AS REQUIRED TO IMPROVE THE EFFECTIVENESS OF THE DEVICES USED TO CONTROL SOIL & WATER ON THIS SITE. THE INFORMATION PRESENTED ON THESE PLANS REPRESENTS A MASTER PLAN APPLICABLE AT THE TIME OF PREPARING THESE PLANS. THE EROSION & SEDIMENT CONTROL DEVICES (ESCD) REQUIREMENTS ARE EXPECTED TO VARY DURING THE COURSE OF THE LIFE OF THE OPERATION TO SUIT CHANGES IN OPERATIONS. THE REQUIREMENTS SHALL BE CONTINUALLY REVIEWED & THE ESCD PLAN AND MEASURES UPDATED ACCORDINGLY.

GENERAL MANAGEMENT & IMPLEMENTATION OF PLAN

- THE CONTRACTOR SHALL HAVE APPOINTED A SUITABLY QUALIFIED SITE WORKS PRACTICES SUPERVISOR TO MANAGE SOIL EROSION & POLLUTION BY SEDIMENTS & OTHER CONTAMINANTS.
- THE SITE WORKS PRACTICES SUPERVISOR SHALL ALSO BE RESPONSIBLE FOR CONTROLLING SUBCONTRACTORS ETC ON THE SITE.
- THE SITE WORKS PRACTICES SUPERVISOR SHALL SET UP A REGULAR PROGRAM OF INSPECTION OF THE SITE TO ENSURE THAT THE MEASURES INTRODUCED TO CONTROL SOIL & WATER ON THE SITE ARE WORKING CORRECTLY & REMAINING IN GOOD ORDER. THE RE-ESTABLISHMENT OF GROUND COVERS SHALL BE REGULARLY MONITORED DURING THE CONSTRUCTION PERIOD & AREAS MADE GOOD IMMEDIATELY THERE ARE SIGNS OF DETERIORATION.
- THE SUITABILITY OF THE SEDIMENT & EROSION CONTROL MEASURES IN PLACE SHALL BE CONTINUALLY REVIEWED AND ADJUSTMENTS MADE AS REQUIRED TO MAINTAIN ADEQUATE PROTECTION AND CONTROL MEASURES.
- THE SEDIMENT & EROSION CONTROL MEASURES SHALL REMAIN IN FORCE & BE MAINTAINED UNTIL SUCH TIME AS REHABILITATION IS COMPLETED & PERMANENT POST PRODUCTION MEASURES ARE IN PLACE & SUFFICIENTLY ESTABLISHED TO ENSURE SITE STABILITY.
- TEMPORARY SEDIMENT SUMPS SHALL BE INSPECTED PRIOR TO & AFTER ANY SIGNIFICANT RAINFALL EVENT.
- A PLAN OF THE CURRENT SITE SEDIMENT & CONTROL MEASURES SHALL BE KEPT AT ALL TIMES IN A READILY ACCESSIBLE PLACE IN THE SITE OFFICE.
- THE CONSTRUCTION PROGRAM FOR THE WORKS SHALL BE BASED ON ENSURING THAT THE TIME BETWEEN WHEN A PORTION OF THE WORKS IS STARTED TO THE TIME THAT IT HAS RECEIVED ITS FINAL SURFACING/PROTECTIVE COVERING/LANDSCAPING IS MINIMISED. THE INSTALLATION/ CONSTRUCTION OF FINAL SURFACINGS/ PROTECTIVE COVERINGS/LANDSCAPING SHALL BE STAGED AND CARRIED OUT PROGRESSIVELY TO MINIMISE THE TIME OF DISTURBANCE.

MATERIALS HANDLING PLAN

- SOIL TYPE STOCKPILES OF MATERIALS SHALL HAVE DIVERSION DRAINS PROVIDED ON THE UP-SLOPE SIDE & SILT FENCES ON THE DOWN-SLOPE SIDES.
- DIESEL, FUELS & OILS SHALL BE STORED IN A DESIGNATED AREA WITH APPROVED SPILLAGE TRAPS/CONTAINMENTS & PROTECTED FROM SPILLING ONTO ADJOINING AREAS.
- STOCKPILED MATERIALS ARE TO BE SURROUNDED WITH APPROPRIATE SILT BARRIERS TO PREVENT LOSS OF SEDIMENTS TO THE SURROUNDING AREA.

DUST CONTROL PLAN

- SUITABLE DEVICES SUCH AS A WATER TRUCK SHALL BE AVAILABLE AT ALL TIMES FOR DUST SUPPRESSION.
- THE CONTRACTOR SHALL MONITOR WIND CONDITIONS AT ALL TIMES & SHALL PROVIDED ADEQUATE DUST SUPPRESSION TO SUIT CONDITIONS. THIS SHALL INCLUDE THE CESSATION OF OPERATIONS IF DUST GENERATED FROM CONSTRUCTION OPERATIONS CANNOT BE ADEQUATELY CONTROLLED.
- ADEQUATE DUST SUPPRESSION SHALL BE APPLIED TO ALL AREAS OF OPERATIONS & OTHER DISTURBED AREAS AT ALL TIMES.

WATER CONTROL PLAN

- STORMWATER RUNOFF SHALL BE DIRECTED AWAY FROM THE WORKS & DISTURBED AREAS AS FAR AS IS POSSIBLE.
- WATER SHOULD BE DISCHARGED FROM THE WORK AREAS AS SOON AS POSSIBLE. WATER SHOULD NOT BE ALLOWED TO ACCUMULATE INTO LARGE VOLUMES AS THESE BEGIN TO MOVE FAST & CARRY EXCESS ENERGY WHICH WILL CAUSE GREATLY INCREASED EROSION AT THE FINAL POINT OF DISCHARGE OFF SITE.
- SILT BARRIERS ARE TO BE USED TO CATCH SILT IN WATER DISCHARGES. EVERY EFFORT IS TO BE MADE TO ENSURE THAT THE WATER PASSING THROUGH THE SITE FINALLY DISCHARGES IN AN UNPOLLUTED STATE, FREE OF AS MUCH SEDIMENT & SILT AS POSSIBLE.
- WATER CONTAMINATED WITH CHEMICALS, CEMENT OR OTHER POLLUTANTS SHALL NOT BE ALLOWED TO DISCHARGE OFF SITE.

CONSTRUCTION PLAN

- ESCD'S SHALL BE ERECTED PRIOR TO ANY EARTHWORKS COMMENCING.
- SUITABLE SITES FOR STOCKPILING TOPSOIL & GENERAL FILL MATERIAL (IF NOT TO BE PLACED IN AN EMBANKMENT IMMEDIATELY) ARE TO BE SELECTED & DELINEATED.
- CUT TO FILL OPERATIONS ARE TO BE CONDUCTED IN SUCH A WAY AS TO MINIMISE DISTURBANCE TO THOSE AREAS OF THE SITE THAT DO NOT NEED TO BE DISTURBED AS PART OF THE GENERAL SCOPE OF WORKS.
- SILT BARRIERS SHALL BE SPECIFICALLY CONSTRUCTED AT THOSE POINTS WHERE WATER RUNOFF WOULD LEAVE THE DISTURBED AREA OF THE SITE & PASS ONTO ADJACENT SITES/PROPERTIES.
- THE WORKS SHALL BE PROGRAMMED IN SUCH A WAY AS TO ALLOW AREAS TO BE FINISHED OFF AS THEY BECOME COMPLETED. I.E. SECTIONS OF WORK SHOULD BE FINALLY TRIMMED, RE-TOPSOILED & REVEGETATED AS SPECIFIED AS AN ONGOING ACTIVITY RIGHT THROUGH THE CONSTRUCTION PHASE OF THE PROJECT. THIS WILL ALLOW THE EARLY ESTABLISHMENT OF NEW GROUND COVER, THUS MINIMISING THE TIME THE WORKS ARE LEFT VULNERABLE TO EROSION ETC.
- ONCE A SECTION OF WORKS HAS BEEN COMPLETED & THE REQUIRED STABILISATION CONSTRUCTED, THE CONTRACTOR SHALL NOT DISTURB ANY AREAS OTHER THAN THOSE ABSOLUTELY NECESSARY TO ALLOW THE INSTALLATION OF SERVICES. ANY AREAS DISTURBED DURING THE INSTALLATION OF SERVICES SHALL BE IMMEDIATELY RE-INSTATED UPON COMPLETION OF THE SERVICE INSTALLATION.
- ONCE A SECTION OF THE WORKS IS OPENED UP THE WORKS SHALL BE COMPLETED BEFORE A NEW SECTION IS OPENED UP, I.E. CONSECUTIVE WORKS APPROVAL.
- THE OUTLET OF THE DRAIN LINES SHALL HAVE THE HEADWALL & APRON STRUCTURES & DOWNSTREAM SCOUR PROTECTION WORKS CONSTRUCTED WITHOUT DELAY SO THAT OUTFALLING WATER WILL BE PREVENTED FROM SCOURING & ERODING THE AREA AROUND THE PIPE OUTLET AND DOWNSTREAM.
- SILT BARRIERS SHALL BE FIXED DOWNSTREAM OF EACH DRAINAGE OUTLET TO CAPTURE ALL PASSING FLOWS.
- ROAD GRAVELS USED TO CONSTRUCT THE ROAD PAVEMENT SHALL BE PLACED, SPREAD & COMPACTED IMMEDIATELY THEY ARE BROUGHT ONTO SITE SO AS TO PREVENT POSSIBLE MASSIVE LOSS OF PARTICLES & SEDIMENT SHOULD A RAIN STORM OCCUR WHILST THEY ARE IN AN UNCONSOLIDATED STATE.
- ROAD SURFACINGS SHALL BE PROTECTED AS SOON AS THE PAVEMENT CONSTRUCTION & INSTALLATION OF DRAINAGE STRUCTURES HAS BEEN COMPLETED.
- AS STOCKPILE AREAS BECOME REDUNDANT THEY SHALL BE SCARIFIED, RETOPSOILED & REVEGETATED AS SPECIFIED. SIMILARLY OTHER DISTURBED AREAS OF THE SITE USED FOR ACCESS, STORAGE OF MATERIALS & THE CONTRACTORS COMPOUND ETC ARE TO BE SCARIFIED, RETOPSOILED AS NECESSARY & REVEGETATED AS THEY BECOME NO LONGER REQUIRED FOR THE PERFORMANCE OF THE WORKS.
- EXPOSED BANKS & BATTERS SHALL BE RE-TOPSOILED PLANTED & LANDSCAPED IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN AS SOON AS POSSIBLE AFTER FINAL TRIMMING.
- BEFORE PLACING TOPSOIL THE BANK SHALL BE SCARIFIED TO 75mm DEEP TO HELP BOND THE TOPSOIL LAYER.
- REVEGETATED & LANDSCAPED AREAS SHALL BE REGULARLY WATERED TO ASSIST WITH GERMINATION & ESTABLISHMENT OF THE COVER.
- BANKS & BATTERS TO BE REGULARLY INSPECTED TO IDENTIFY AREAS OF EROSION & MAKE THE NECESSARY RECTIFICATIONS TO STOP RECURRENCE.

INSPECTION & MONITORING PLAN

INSPECTIONS SHOULD BE UNDERTAKEN :

- DURING ANY STORM EVENT THAT THREATENS TO EXCEED THE AVAILABLE CAPACITY IN THE SEDIMENT OR POLLUTION STORAGE STRUCTURES.
- AFTER ANY STORM THAT HAS CAUSED RUNOFF.
- WEEKLY AS A MATTER OF SITE ROUTINE FOR ALL SITE WORK PRACTICES.
- BEFORE SITE CLOSURE OR ANY OTHER TIME WHEN THE SITE MAY BE UNATTENDED FOR LONGER THAN 12 HOURS.

RECORD / DIARY KEEPING

THE SITE WORKS PRACTICES SUPERVISOR SHALL MAINTAIN A RECORD OR DIARY DOCUMENTING:

- DATES OF INSTALLATION & REMOVAL OF SITE WORK PRACTICES REPAIR OF ANY DAMAGE TO SITE WORKS PRACTICES RAINFALL DEPTHS, DURATIONS & TIMES STORAGE CAPACITY AVAILABLE IN CONTROL STRUCTURES CONDITION OF SITE WORK PRACTICE STRUCTURES & STABILISED SURFACES.

- MAINTAIN A SITE RAINFALL GAUGE AND RECORDING
- CARRY OUT WATER SAMPLING AT MONITORING POINTS FOR A SAMPLE OF LOW AND HIGH FLOW EVENTS DURING THE WET SEASON AND RECORD DATE, TURBITY, PH AND AMOUNT OF RAINFALL .
- RECORD KEEPING MUST INCLUDE A PHOTOGRAPHIC RECORD.

INSPECTION PROGRAM

- INSPECT BATTERS & EMBANKMENT SLOPES FOR SCOUR OR EROSION & MAKE GOOD
- INSPECT CATCH DRAINS & TABLE DRAINS & CLEAR OUT SEDIMENT AS REQUIRED
- INSPECT INLETS & PIPES & CLEAN OUT AS REQUIRED.
- INSPECT OUTLETS & IMMEDIATELY MAKE GOOD ANY SIGN OF EROSION.
- INSPECT STOCKPILES TO ENSURE NO MATERIAL IS ESCAPING BEYOND THE SILT FENCES.
- INSPECT THE AREAS USED TO STORE MATERIALS FOR PROPER STORAGE PRACTICES.
- INSPECT THE CONTRACTORS COMPOUND AREA FOR CORRECT STORAGE OF MATERIALS.
- INSPECT THE REFUSE BINS TO ENSURE THEY HAVE BEEN REGULARLY CLEARED.

REFERENCES/STANDARD DRAWINGS

REFERENCE INTERNATIONAL EROSION CONTROL ASSOCIATION (AUSTRALASIA (IECA) BEST PRACTICES MANUALS.

MRTS16

TMR STD DWG'S

EROSION & SEDIMENT CONTROL MANAGEMENT

EROSION & SEDIMENT CONTROL IMPLEMENTATION

- ALL EXIST TREES TO BE MULCHED ON SITE & SPOIL REMOVED. MULCH TO BE STOCKPILED FOR RE-USE ON SITE.
- DISTURBANCE TO EXISTING GRASS COVER SHALL BE MINIMISED. CONSTRUCTION TRAFFIC SHALL NOT USE GRASSED AREAS FOR PARKING EQUIPMENT OR STOCKPILING MATERIALS.
- SEQUENCING OF THE INSTALLATION OF LANDSCAPING, SEDIMENT & DEVICES ARE SHOWN ON THE PLAN.
- STORMWATER OUTLETS MUST BE PREVENTED FROM CAUSING SCOUR & EROSION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF DUST & SILT ON THE SITE. DUST SUPPRESSION MEASURES MUST BE IMPLEMENTED AT ALL TIMES DURING THE CONTRACT PERIOD & DURING THE CLEARING & GRUBBING PHASE.
- ALL DISTURBED AREAS & SERVICE TRENCHES ON THE SITE MUST BE RE-TOPSOILED & HYDROMULCHED INCLUDING ALL HAUL TRACKS CREATED BY THE CONTRACTOR. UNLESS SHOWN OTHERWISE
- SILT FENCES MUST BE INSTALLED ON THE LOW SIDE OF ALL STOCKPILES.

SEQUENCING

- PRIOR TO COMMENCEMENT OF EARTHWORKS
- DURING & AFTER COMPLETION OF EARTHWORKS & FOR DURATION OF CONSTRUCTION PERIOD
- AFTER COMPLETION OF CONSTRUCTION & FOR DURATION OF MAINTENANCE PERIOD
- PERMANENT

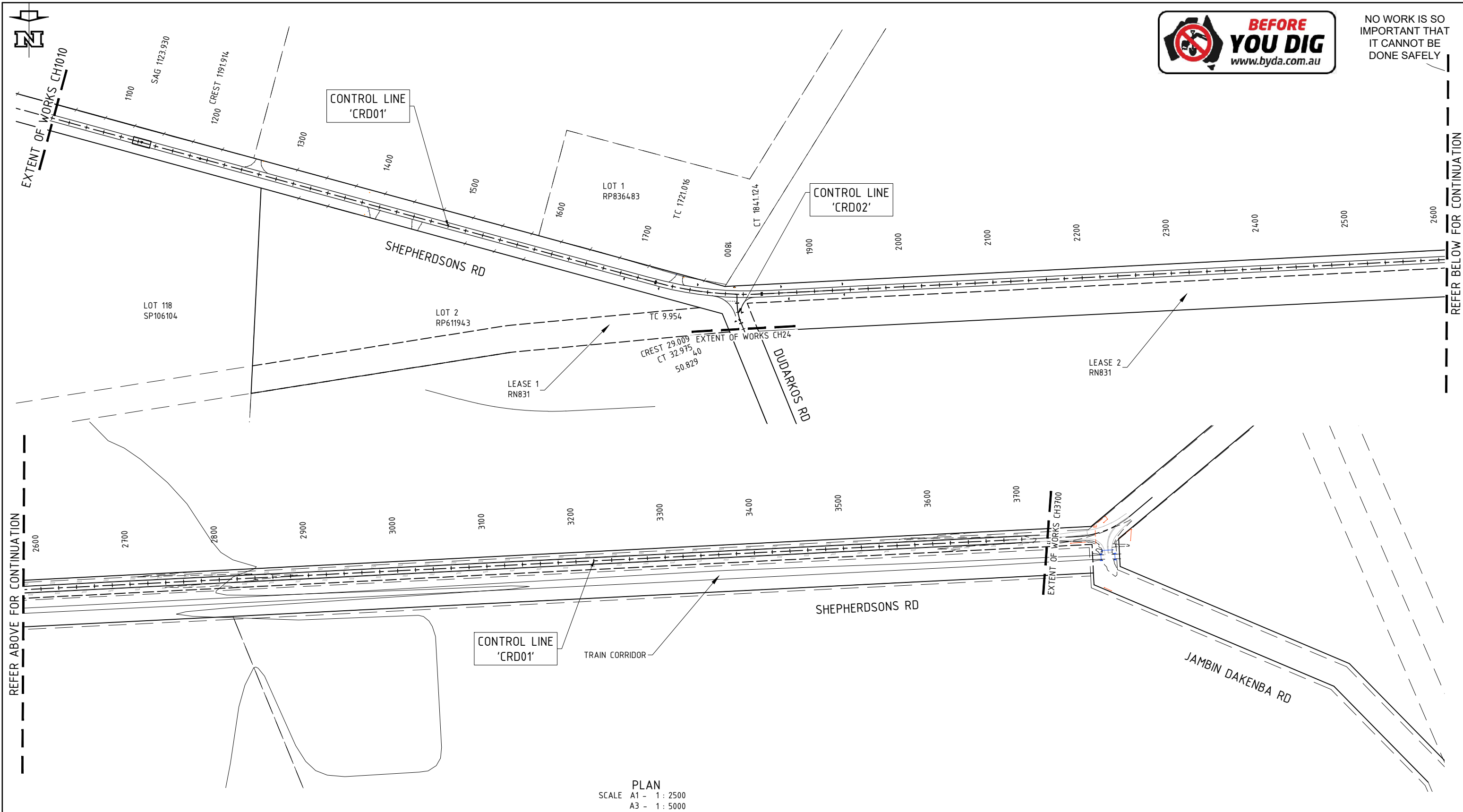
FOR CONSTRUCTION SEDIMENT & EROSION CONTROL PLAN & MEASURES REFER TO CMDG D-050, D-0501 & D-060.

SITE EROSION RISK ASSESSMENT												
ASSESSMENT CRITERIA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AVERAGE RAINFALL	154	145	94	49	57	38	34	32	27	58	72	130
SITE EROSION RISK RATING	H	H	M	M	M	L	L	VL	VL	M	M	H
SITE EROSION RISK RATING: HIGH (H); MODERATE (M); LOW (L); VERY LOW (VL) - (TABLE 4.4.2 IECA BEST PRACTICE ESC BOOK 1)												

		Notes: TO BE READ IN CONJUNCTION WITH DRAWING GN02. COUNCIL REFERENCE CHAINAGE IS CHO. AT E. 24d 24' 20.241288"S N. 150d 32' 7.2708"E		 MTS - Banana Shire Council a/MW - Banana Shire Council DIS Review - Banana Shire Council Drawn: SAMANTHA WILSON Designed: CHASE KEMP Certified: CHARLES COOK RPEQ #: 8480		 PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS SHEPHERDSONS RD, BILOELA CONCEPT EROSION & SEDIMENT CONTROL NOTES AND DETAILS		Scale 50 0 50 100 150 200 250m SCALE 1:5000 Dwg. No. PRJ-0342-01-ES01 Sheet 4 OF 19 Issue A		
A	FOR APPROVAL	05.08.24								
No.	Revision	Date								



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



PLAN
SCALE A1 - 1 : 2500
A3 - 1 : 5000

C ROAD->CRD01 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/ SPIRAL	A.LENGTH	DEFL. ANGLE
IP 1	1010.000	248986.429	730444.7227	175.992	285°11'30.01"			
TC	1721.016	248300.259	7304633.547	173.665	285°11'30.01"			
IP 2	1781.070	248241.817	7304649.417	173.445		R = -380.000	120.108	18°06'35.01"
CT	1841.124	248181.336	7304646.334	173.224	267°04'55.00"			
IP 3	3700.000	246324.870	7304551.703	168.094	267°04'55.00"			

C ROAD->CRD02 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/ SPIRAL	A.LENGTH	DEFL. ANGLE
IP 1	0.000	248209.454	7304646.725	173.327	359°33'26.07"			
TC	9.954	248209.377	7304656.679	173.626	359°33'26.07"			
IP 2	21.464	248209.287	7304668.333	173.971		R = -60.000	23.022	21°59'03.18"
CT	32.975	248204.841	7304679.105	173.876	337°34'22.88"			
IP 3	50.829	248198.030	7304695.608	173.145	337°34'22.88"			

NOTE:
REFER TO DSQ SURVEY PLAN 15065-DTM-01
FOR DATUM, STATION & LOCATIONS

No.	Revision	Date
A	FOR APPROVAL	05.08.24

Notes:
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Designed:
CHASE KEMP

DIS Review - Banana Shire Council
Certified:
CHARLES COOK
RPEQ #: 8480



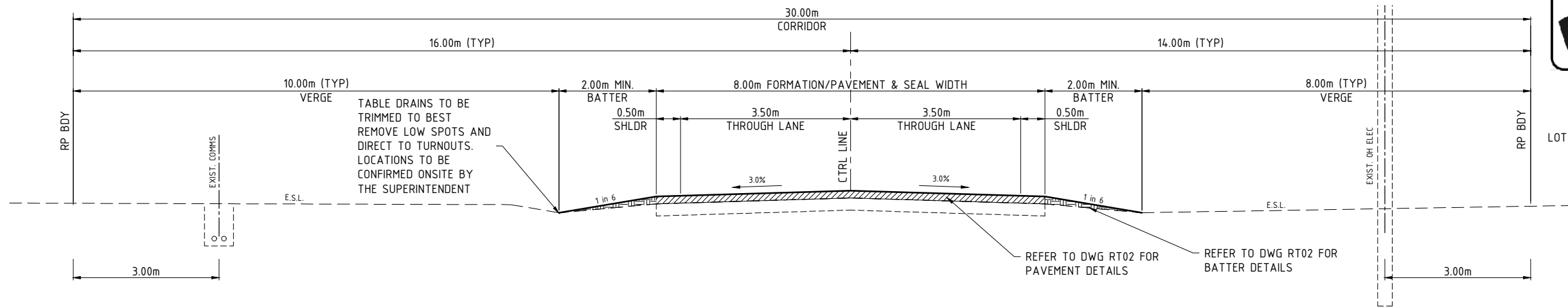
PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS CONTROL & SETOUT TABLES

Scale 25 0 25 50 75 100 125m
SCALE 1:2500

Dwg. No. PRJ-0342-01-RC01
Sheet 5 OF 19
Issue A



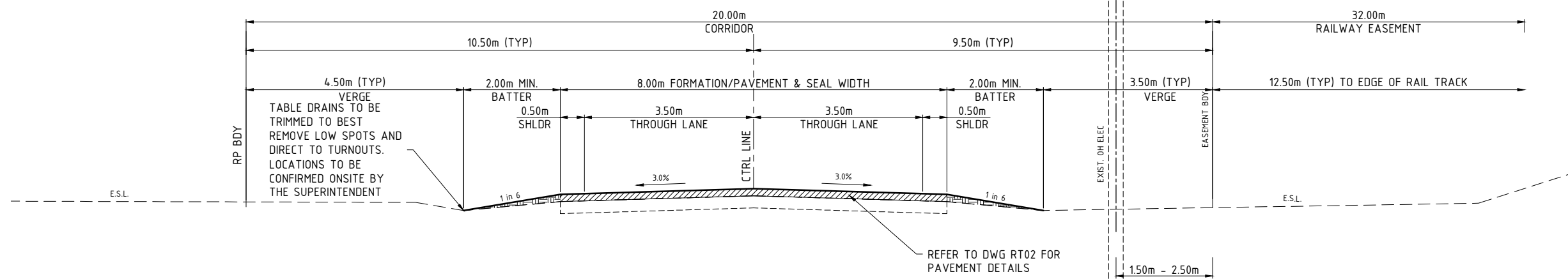
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SHEPHERDSONS ROAD CH.1010 TO 1830

TYPICAL ROAD CROSS SECTION

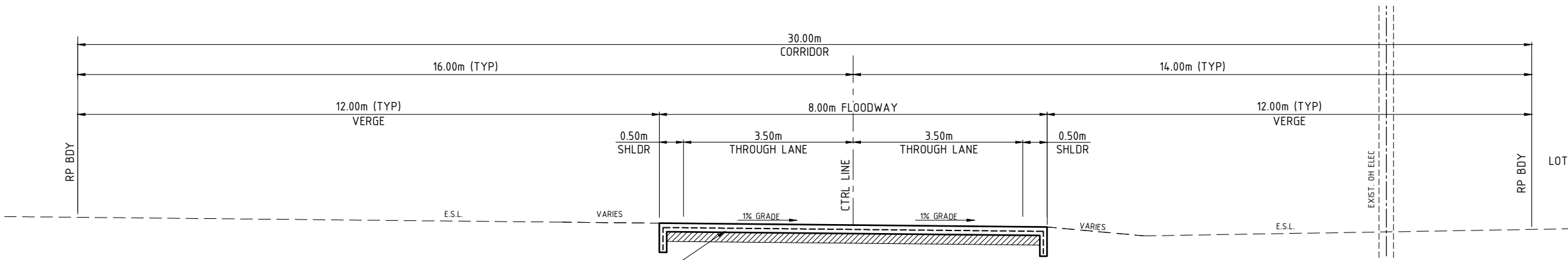
SCALE A1 - 1 : 50
A3 - 1 : 100



SHEPHERDSONS ROAD CH.1830 TO 3770

TYPICAL ROAD CROSS SECTION

SCALE A1 - 1 : 50
A3 - 1 : 100



SHEPHERDSONS ROAD CH.1114-1134 & 1565-1600

TYPICAL CONCRETE FLOODWAY CROSS SECTION

SCALE A1 - 1 : 50
A3 - 1 : 100

20m LONG CONCRETE FLOODWAY AS PER STD DWG CMDG-R-094

Notes:

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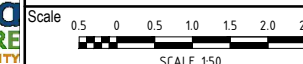
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PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS

SHEPHERDSONS RD, BILOELA

ROADWORKS TYPICAL SECTIONS

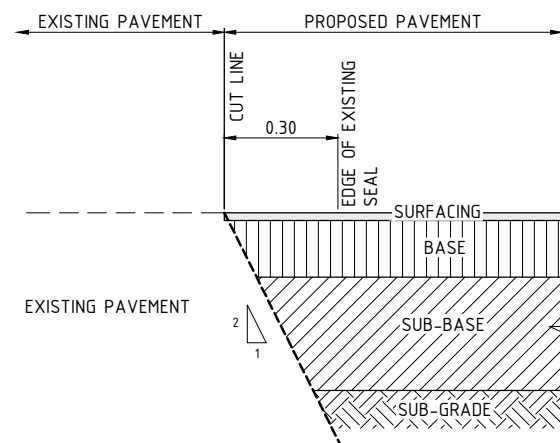


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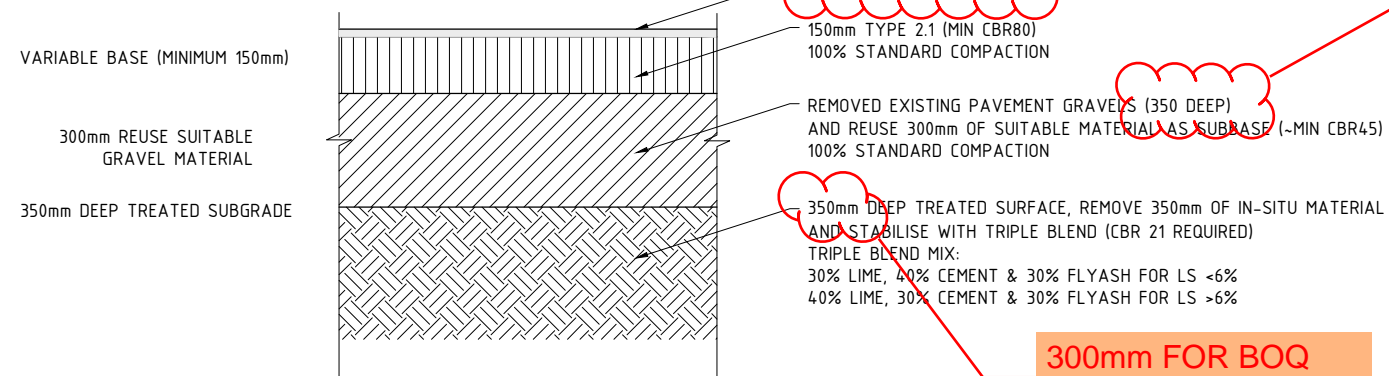
Sheet 6 OF 19

Issue A

No.	Revision	Date
A	FOR APPROVAL	05.08.28



TYPICAL DETAIL - PAVEMENT SAWCUT
SCALE A1 - 1 : 10
A3 - 1 : 20

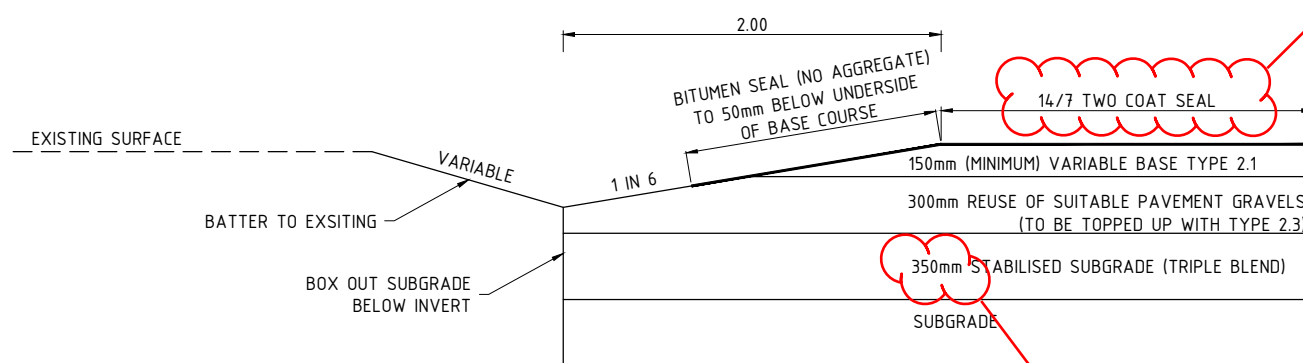


SHEPHERDSONS ROAD - PAVEMENT DETAIL
SCALE A1 - 1 : 10
A3 - 1 : 20

14/10 TWO COAT SEAL FOR BOQ 07/01/2025

300 DEEP FOR BOQ 07/01/2025

300mm FOR BOQ 07/01/2025



SHEPHERDSONS ROAD - BATTER DETAIL
SCALE A1 - 1 : 20
A3 - 1 : 40

14/10 TWO COAT SEAL FOR BOQ 07/01/2025

300mm FOR BOQ 07/01/2025

Notes:

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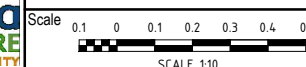
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PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS TYPICAL DETAILS



Dwg. No. PRJ-0342-01-RT02

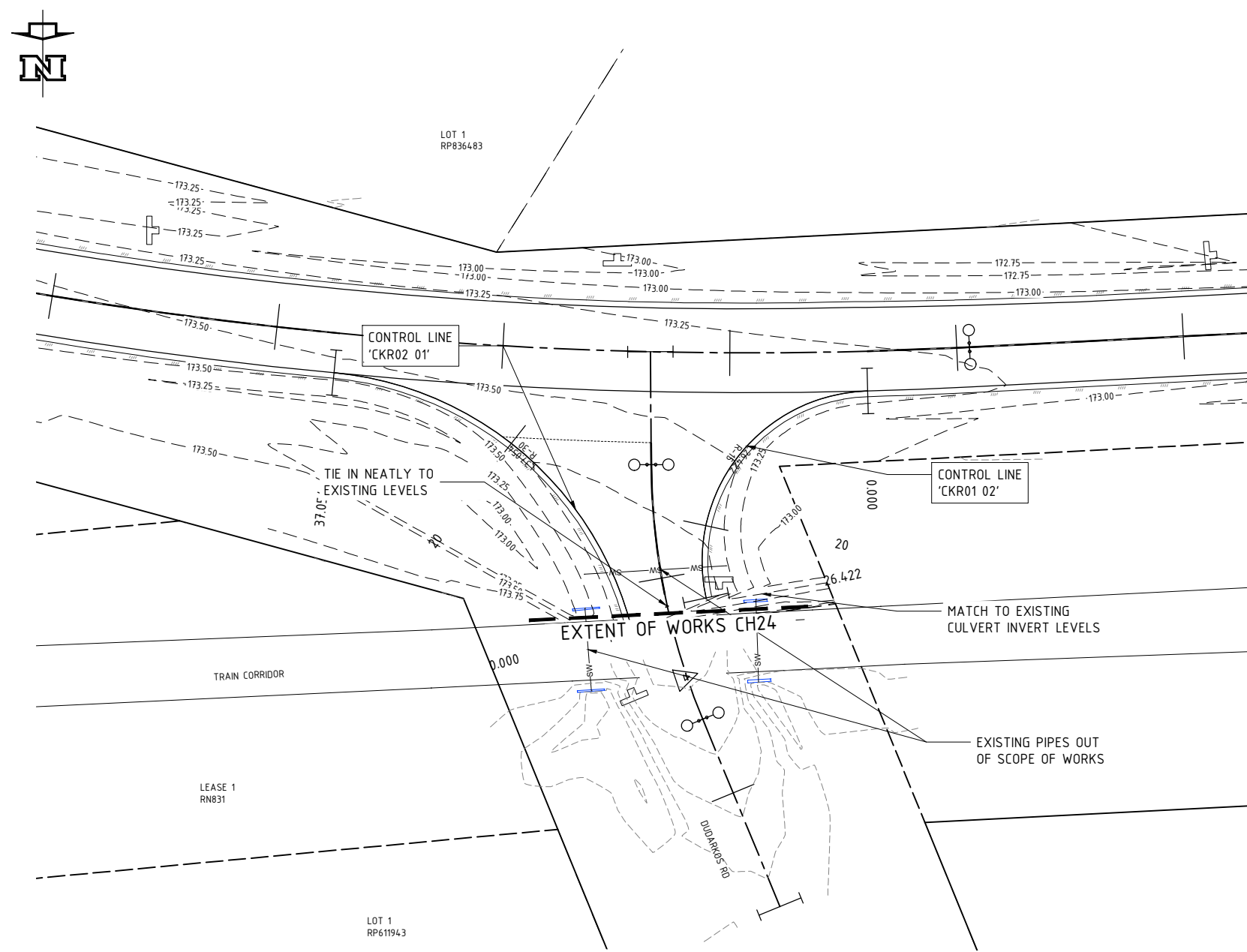
Sheet 7 OF 19

Issue A

No.	Revision	Date
A	FOR APPROVAL	05.08.24



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



PLAN
SCALE A1 - 1 : 250
A3 - 1 : 500

C ROAD->CKR01 02 HORIZONTAL SEGMENTS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	248190.305	7304650.186	173.362	347°31'23.67"	ARC	-15.000	26.422
	5.000	248195.189	7304651.144	173.381	69°21'03.57"		-15.000	
	10.000	248199.490	7304653.648	173.399	50°15'08.64"		-15.000	
	15.000	248202.736	7304657.421	173.551	31°09'13.70"		-15.000	
	20.000	248204.568	7304662.048	173.706	12°03'18.77"		-15.000	
	25.000	248204.786	7304667.020	173.856	352°57'23.83"		-15.000	
E	26.422	248204.545	7304668.421	173.899	347°31'23.67"			

C ROAD->CKR01 02 HORIZONTAL SEGMENTS								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	248190.305	7304650.186	173.362	347°31'23.67"	ARC	-15.000	26.422
	5.000	248195.189	7304651.144	173.381	69°21'03.57"		-15.000	
	10.000	248199.490	7304653.648	173.399	50°15'08.64"		-15.000	
	15.000	248202.736	7304657.421	173.551	31°09'13.70"		-15.000	
	20.000	248204.568	7304662.048	173.706	12°03'18.77"		-15.000	
	25.000	248204.786	7304667.020	173.856	352°57'23.83"		-15.000	
E	26.422	248204.545	7304668.421	173.899	347°31'23.67"			

Notes:

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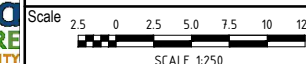
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RPEQ #: 8480



PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS INTERSECTION DETAIL & SETOUT TABLES



Dwg. No.
PRJ-0342-01-RI01

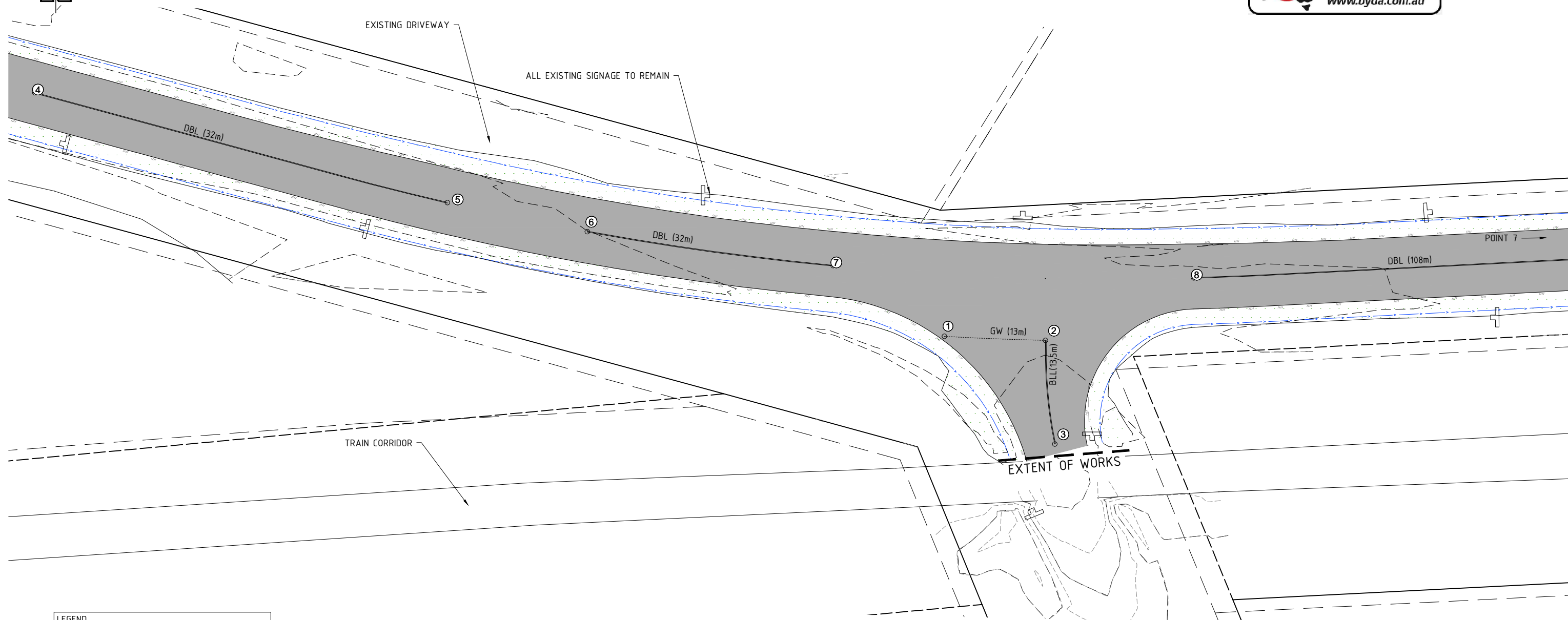
Sheet
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Issue
A

No.	Revision	Date
A	FOR APPROVAL	05.08.24



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LEGEND

———— DOUBLE BARRIER LINE (DBL)

- - - - - GIVEWAY LINE (GW)

NOTE - ALL SIGNAGE AND LINEMARKING TO BE IN ACCORDANCE WITH THE MUTCD

PLAN

SCALE A1 - 1 : 250

A3 - 1 : 500

SETOUT TABLE			
PT No.	EAST.	NORTH.	LEVEL
1	248222.48	7304654.22	0.00
2	248209.44	7304654.74	0.00
3	248208.24	7304668.13	0.00
4	248339.84	7304622.80	0.00
5	248286.61	7304636.98	0.00
6	248268.55	7304640.72	0.00
7	248236.83	7304645.10	0.00
8	248190.31	7304646.69	0.00
9	248082.57	7304641.30	0.00

No.	Revision	Date
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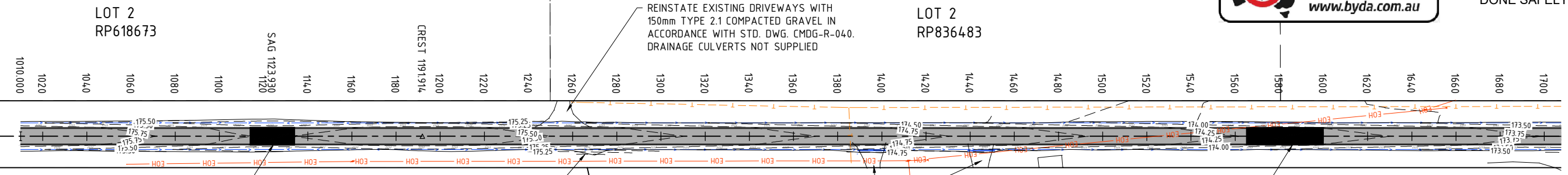
PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
 ROADWORKS LINEMARKING PLAN

Scale 2.5 0 2.5 5.0 7.5 10 12.5m
 SCALE 1:250

Dwg. No. PRJ-0342-01-RL01
 Sheet 9 OF 19
 Issue A



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LOT 118 SP106104 REFER TO DWG. RT01 FOR FLOODWAY DETAIL

REINSTATE TABLE DRAIN WASHOUT AT CH1250

REINSTATE EXISTING DRIVEWAYS WITH 150mm TYPE 2.1 COMPACTED GRAVEL IN ACCORDANCE WITH STD. DWG. CMDG-R-04.0. DRAINAGE CULVERTS NOT SUPPLIED

REFER TO DWG. RT01 FOR FLOODWAY DETAIL

LOT 2 RP611943

PLAN SCALE A1 - 1 : 1000 A3 - 1 : 2000

NOTE SERVICES SHOWN ON THE PLANS ARE INDICATIVE ONLY AND HAVE NOT BEEN VERIFIED BY POTHOLES. CONSTRUCTORS TO POTHOLE TO VERIFY PRIOR TO CONSTRUCTION TO ENSURE EXISTING SERVICE DEPTH.

VERT. CURVE LENGTH (m)	VERT. CURVE RADIUS (m)	VERT. GRADE (%)	VERT. LENGTH (m)	DATUM RL 165.0	HORZ. CURVE LENGTH (m)	HORZ. CURVE RADIUS (m)	LHS DESIGN LEVELS OUTSIDE EDGE OF SHLDR	RHS DESIGN LEVELS OUTSIDE EDGE OF SHLDR	DESIGN LEVELS ROAD CENTRELINE	EXISTING SURFACE LEVELS ROAD CENTRELINE	CUT / FILL DEPTH TO EXISTING SURFACE	CONTROL LINE CHAINAGE ROAD CENTRELINE
		-0.35%	50.000				175.872	175.872	175.992	175.992	0.000	1000.000
		-0.60%	60.930				175.837	175.837	175.957	175.959	2.000	1000.000
	30.000 R 30.000						175.767	175.767	175.887	175.890	0.000	1000.000
							175.697	175.697	175.817	175.825	0.000	1000.000
							175.577	175.577	175.697	175.793	0.000	1000.000
							175.457	175.457	175.577	175.649	2.100	1000.000
							175.421	175.421	175.541	175.602	1.900	1000.000
							175.370	175.370	175.490	175.473	0.000	1000.000
							175.369	175.369	175.489	175.464	0.000	1000.000
							175.367	175.367	175.487	175.461	0.000	1000.000
							175.391	175.391	175.511	175.502	1.500	1000.000
							175.408	175.408	175.528	175.514	0.200	1000.000
							175.470	175.470	175.590	175.543	0.000	1000.000
							175.452	175.452	175.572	175.537	0.000	1000.000
							175.372	175.372	175.492	175.476	0.000	1000.000
							175.291	175.291	175.411	175.272	0.000	1000.000
							175.211	175.211	175.331	175.202	0.000	1000.000
							175.131	175.131	175.251	175.094	0.000	1000.000
							175.050	175.050	175.170	175.004	0.000	1000.000
							174.970	174.970	175.090	174.940	0.000	1000.000
							174.930	174.930	175.050	174.914	0.000	1000.000
							174.890	174.890	175.010	174.880	0.000	1000.000
							174.810	174.810	174.930	174.809	0.000	1000.000
							174.730	174.730	174.850	174.717	0.000	1000.000
							174.651	174.651	174.771	174.652	0.000	1000.000
							174.572	174.572	174.692	174.569	0.000	1000.000
							174.493	174.493	174.613	174.496	0.000	1000.000
							174.414	174.414	174.534	174.400	0.000	1000.000
							174.335	174.335	174.455	174.324	0.000	1000.000
							174.256	174.256	174.376	174.243	0.000	1000.000
							174.177	174.177	174.297	174.154	0.000	1000.000
							174.169	174.169	174.289	174.165	0.000	1000.000
							174.104	174.104	174.224	174.092	0.000	1000.000
							174.082	174.082	174.202	174.069	0.000	1000.000
							174.045	174.045	174.165	174.033	0.000	1000.000
							174.017	174.017	174.137	173.990	0.000	1000.000
							174.000	174.000	174.120	173.966	0.000	1000.000
							173.958	173.958	174.078	173.967	0.000	1000.000
							173.915	173.915	174.035	173.931	0.000	1000.000
							173.873	173.873	173.993	173.883	0.000	1000.000
							173.830	173.830	173.950	173.835	0.000	1000.000
							173.793	173.793	173.913	173.782	0.000	1000.000

LONGITUDINAL SECTIONS SCALE A1 - 1:1000(H) 1:100(V) A3 - 1:2000(H) 1:200(V)

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 Designed: CHASE KEMP
 Certified: CHARLES COOK
 RPEQ #: 8480

Banana SHIRE SHIRE OF OPPORTUNITY

PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
 SHEPHERDSONS RD, BILOELA
 ROADWORKS LONGITUDINAL SECTIONS - SHEET 01

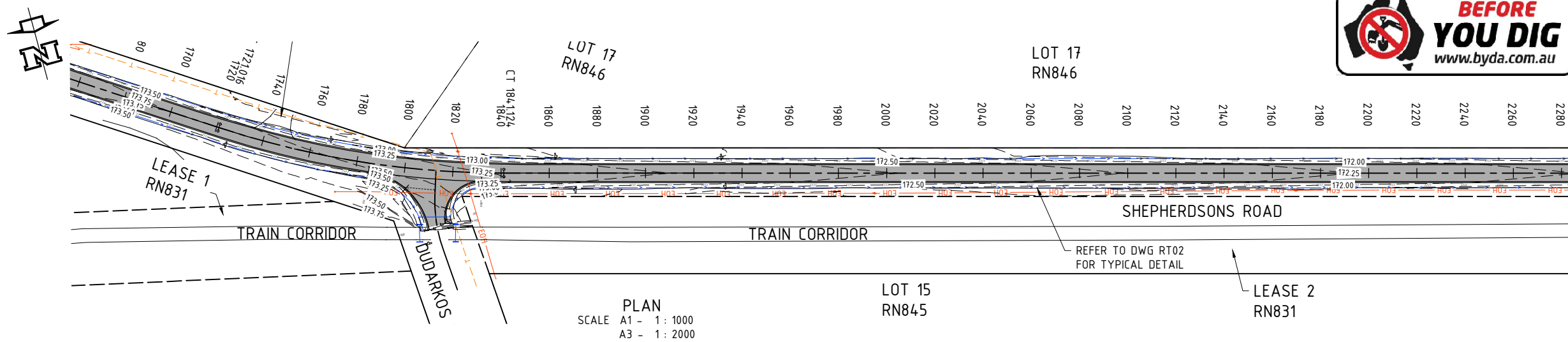
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Dwg. No. PRJ-0342-01-RS01
 Sheet 10 OF 19
 Issue A

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PLAN SCALE A1 - 1:1000 A3 - 1:2000

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		19%	000				173.793	173.793	173.913	173.782	0.131	1700.000
		-0.58%	104.452				173.852	173.852	173.798	173.684	0.113	1720.000
							173.852	173.852	173.792	173.679	0.112	1721.016
							173.807	173.807	173.687	173.613	0.088	1740.000
							173.691	173.691	173.571	173.414	0.023	1760.000
							173.578	173.578	173.458	173.302	0.149	1779.452
							173.575	173.575	173.455	173.299	0.050	1780.000
							173.470	173.470	173.350	173.199	0.145	1800.000
							173.450	173.450	173.330	173.189	0.141	1804.452
							173.388	173.388	173.268	173.105	0.057	1820.000
							173.356	173.356	173.236	173.076	0.055	1829.452
							173.267	173.267	173.200	173.040	0.149	1840.000
							173.256	173.256	173.186	173.040	0.149	1841.172
							173.017	173.017	172.897	172.991	0.140	1860.000
							172.956	172.956	172.836	172.673	0.053	1880.000
							172.895	172.895	172.805	172.655	0.056	1900.000
							172.834	172.834	172.754	172.610	0.140	1920.000
							172.773	172.773	172.693	172.549	0.147	1940.000
							172.712	172.712	172.632	172.489	0.093	1960.000
							172.651	172.651	172.571	172.427	0.090	1980.000
							172.590	172.590	172.510	172.367	0.090	2000.000
							172.529	172.529	172.449	172.306	0.090	2020.000
							172.468	172.468	172.388	172.245	0.090	2040.000
							172.407	172.407	172.327	172.184	0.090	2060.000
							172.346	172.346	172.266	172.123	0.090	2080.000
							172.285	172.285	172.205	172.062	0.090	2100.000
							172.224	172.224	172.144	172.001	0.090	2120.000
							172.163	172.163	172.083	171.940	0.090	2140.000
							172.102	172.102	172.022	171.879	0.090	2160.000
							172.041	172.041	171.961	171.820	0.090	2180.000
							171.980	171.980	171.900	171.759	0.090	2200.000
							171.919	171.919	171.839	171.698	0.090	2220.000
							171.858	171.858	171.778	171.637	0.090	2240.000
							171.797	171.797	171.717	171.576	0.090	2260.000
							171.736	171.736	171.656	171.515	0.090	2280.000

LONGITUDINAL SECTIONS SCALE A1 - 1:1000(H) 1:100(V) A3 - 1:2000(H) 1:200(V)

Notes:

TO BE READ IN CONJUNCTION WITH DRAWING GN02. COUNCIL REFERENCE CHAINAGE IS CHO. AT E. 24d 24' 20.241288"S N. 150d 32' 7.2708"E

ABN 27 158 351 663
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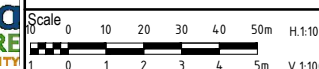
MTS - Banana Shire Council
Drawn: SAMANTHA WILSON

a/MW - Banana Shire Council
Designed: CHASE KEMP

DIS Review - Banana Shire Council
Certified: CHARLES COOK
RPEQ #: 8480



PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS LONGITUDINAL SECTIONS - SHEET 02



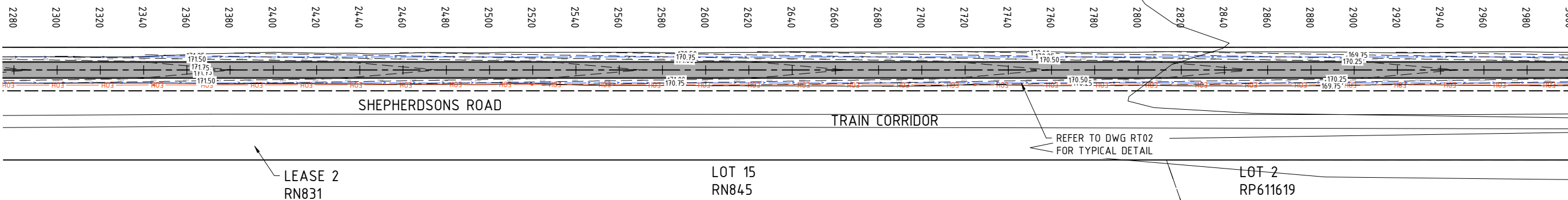
Dwg. No. PRJ-0342-01-RS02
Sheet 11 OF 19
Issue A

No.	Revision	Date
A	FOR APPROVAL	05.08.24



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

LOT 17
RN846



PLAN
SCALE A1 - 1:1000
A3 - 1:2000

NOTE
SERVICES SHOWN ON THE PLANS ARE INDICATIVE ONLY AND HAVE NOT BEEN VERIFIED BY POTHOLING. CONSTRUCTORS TO POTHOLE TO VERIFY PRIOR TO CONSTRUCTION TO ENSURE EXISTING SERVICE DEPTH.

VERT. CURVE LENGTH (m)	VERT. CURVE RADIUS (m)	VERT. GRADE (%)	VERT. LENGTH (m)	DATUM RL 165.0	HORZ. CURVE LENGTH (m)	HORZ. CURVE RADIUS (m)	LHS DESIGN LEVELS OUTSIDE EDGE OF SHLDR	RHS DESIGN LEVELS OUTSIDE EDGE OF SHLDR	DESIGN LEVELS ROAD CENTRELINE	EXISTING SURFACE LEVELS ROAD CENTRELINE	CUT / FILL DEPTH TO EXISTING SURFACE	CONTROL LINE CHAINAGE ROAD CENTRELINE
		-0.30%	995.548				171.736	171.736	171.856	171.717	571.0	000.00822
							171.675	171.675	171.795	171.675	021.0	000.00022
							171.614	171.614	171.734	171.593	271.0	000.00022
							171.553	171.553	171.673	171.519	751.0	000.00072
							171.492	171.492	171.612	171.491	971.0	000.00092
							171.431	171.431	171.551	171.398	531.0	000.00082
							171.370	171.370	171.490	171.352	881.0	000.00072
							171.309	171.309	171.429	171.286	771.0	000.00072
							171.249	171.249	171.369	171.224	571.0	000.00072
							171.188	171.188	171.308	171.160	271.0	000.00092
							171.127	171.127	171.247	171.118	821.0	000.00092
							171.066	171.066	171.186	171.051	421.0	000.00052
							171.005	171.005	171.125	170.989	501.0	000.00052
							170.944	170.944	171.064	170.866	221.0	000.00072
							170.883	170.883	171.003	170.866	911.0	000.00092
							170.822	170.822	170.942	170.811	131.0	000.00052
							170.761	170.761	170.881	170.761	511.0	000.00092
							170.700	170.700	170.820	170.699	231.0	000.00022
							170.639	170.639	170.759	170.629	081.0	000.00072
							170.578	170.578	170.698	170.577	021.0	000.00092
							170.517	170.517	170.637	170.533	401.0	000.00082
							170.456	170.456	170.576	170.457	811.0	000.00022
							170.395	170.395	170.515	170.399	911.0	000.00022
							170.334	170.334	170.454	170.339	811.0	000.00072
							170.273	170.273	170.393	170.287	501.0	000.00022
							170.212	170.212	170.332	170.230	201.0	000.00082
							170.151	170.151	170.271	170.171	001.0	000.00022
							170.091	170.091	170.211	170.099	471.0	000.00082
							170.061	170.061	170.181	170.024	151.0	000.00082
							170.031	170.031	170.151	169.988	631.0	000.00082
							170.000	170.000	170.121	169.955	171.0	000.00022
							169.952	169.952	170.072	169.929	231.0	000.00022
							169.902	169.902	170.022	169.879	911.0	000.00022
							169.853	169.853	169.973	169.818	551.0	000.00062
							169.804	169.804	169.924	169.773	151.0	000.00082
							169.755	169.755	169.875	169.737	151.0	000.00000

LONGITUDINAL SECTIONS
SCALE A1 - 1:1000(H) 1:100(V)
A3 - 1:2000(H) 1:200(V)

Notes:

TO BE READ IN CONJUNCTION WITH DRAWING GN02.
COUNCIL REFERENCE CHAINAGE IS CHO. AT
E. 24d 24' 20.241288"S
N. 150d 32' 7.2708"E



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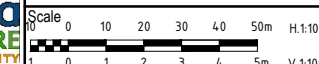
MTS - Banana Shire Council
Drawn:
SAMANTHA WILSON

a/MW - Banana Shire Council
Designed:
CHASE KEMP

DIS Review - Banana Shire Council
Certified:
CHARLES COOK
RPEQ #: 8480



PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS LONGITUDINAL SECTIONS - SHEET 03



Dwg. No.
PRJ-0342-01-RS03

Sheet
12 OF 19

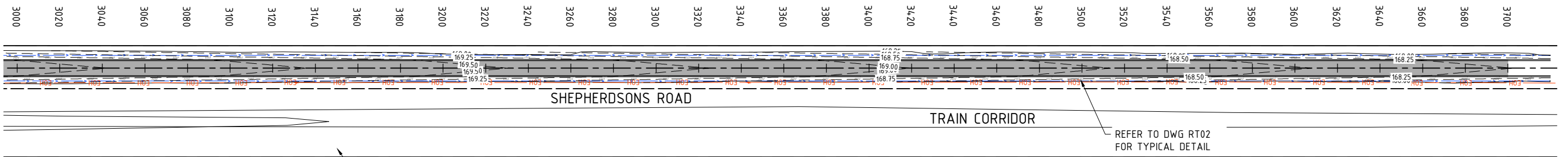
Issue
A



LOT 17
RN846



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



PLAN
SCALE A1 - 1:1000
A3 - 1:2000

NOTE
SERVICES SHOWN ON THE PLANS ARE INDICATIVE ONLY AND HAVE NOT BEEN VERIFIED BY POT-HOLING. CONSTRUCTORS TO POTHOLE TO VERIFY PRIOR TO CONSTRUCTION TO ENSURE EXISTING SERVICE DEPTH.

VERT. CURVE LENGTH (m)
VERT. CURVE RADIUS (m)
VERT. GRADE (%)
VERT. LENGTH (m)
DATUM RL 165.0

	3000.000	3020.000	3040.000	3060.000	3080.000	3100.000	3120.000	3140.000	3160.000	3180.000	3200.000	3220.000	3240.000	3260.000	3280.000	3300.000	3320.000	3340.000	3360.000	3380.000	3400.000	3420.000	3440.000	3460.000	3480.000	3500.000	3520.000	3540.000	3560.000	3580.000	3600.000	3620.000	3640.000	3660.000	3680.000	3700.000		
HORZ. CURVE LENGTH (m)																																						
HORZ. CURVE RADIUS (m)																																						
LHS DESIGN LEVELS OUTSIDE EDGE OF SHLDR	169.755	169.706	169.657	169.607	169.558	169.509	169.460	169.411	169.362	169.312	169.263	169.214	169.165	169.116	169.067	169.017	168.968	168.919	168.870	168.821	168.772	168.722	168.673	168.624	168.575	168.526	168.477	168.427	168.378	168.329	168.280	168.231	168.182	168.132	168.083	168.034		
RHS DESIGN LEVELS OUTSIDE EDGE OF SHLDR	169.755	169.706	169.657	169.607	169.558	169.509	169.460	169.411	169.362	169.312	169.263	169.214	169.165	169.116	169.067	169.017	168.968	168.919	168.870	168.821	168.772	168.722	168.673	168.624	168.575	168.526	168.477	168.427	168.378	168.329	168.280	168.231	168.182	168.132	168.083	168.034		
DESIGN LEVELS ROAD CENTRELINE	169.875	169.826	169.777	169.727	169.678	169.629	169.580	169.531	169.482	169.432	169.383	169.334	169.285	169.236	169.187	169.137	169.088	169.039	168.990	168.941	168.892	168.842	168.793	168.744	168.695	168.646	168.597	168.547	168.498	168.449	168.400	168.351	168.302	168.253	168.204	168.155	168.106	
EXISTING SURFACE LEVELS ROAD CENTRELINE	169.739	169.702	169.664	169.626	169.588	169.550	169.512	169.474	169.436	169.398	169.360	169.322	169.284	169.246	169.208	169.170	169.132	169.094	169.056	169.018	168.980	168.942	168.904	168.866	168.828	168.790	168.752	168.714	168.676	168.638	168.600	168.562	168.524	168.486	168.448	168.410	168.372	
CUT / FILL DEPTH TO EXISTING SURFACE	0.136	0.124	0.130	0.138	0.145	0.127	0.121	0.117	0.119	0.118	0.116	0.121	0.116	0.111	0.114	0.115	0.114	0.111	0.108	0.110	0.122	0.127	0.126	0.144	0.152	0.149	0.142	0.133	0.122	0.095	0.087	0.089	0.113	0.120	0.142	0.166		
CONTROL LINE CHAINAGE ROAD CENTRELINE	3000.000	3020.000	3040.000	3060.000	3080.000	3100.000	3120.000	3140.000	3160.000	3180.000	3200.000	3220.000	3240.000	3260.000	3280.000	3300.000	3320.000	3340.000	3360.000	3380.000	3400.000	3420.000	3440.000	3460.000	3480.000	3500.000	3520.000	3540.000	3560.000	3580.000	3600.000	3620.000	3640.000	3660.000	3680.000	3700.000		

LONGITUDINAL SECTIONS
SCALE A1 - 1:1000(H) 1:100(V)
A3 - 1:2000(H) 1:200(V)

Notes:

TO BE READ IN CONJUNCTION WITH DRAWING GN02.
COUNCIL REFERENCE CHAINAGE IS CH0. AT
E. 24d 24' 20.241288"S
N. 150d 32' 7.2708"E



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EMAIL: admin@hartecs.com.au
OFFICE: ROCKHAMPTON

MTS - Banana Shire Council
Drawn:
SAMANTHA WILSON

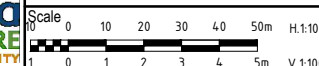
a/MW - Banana Shire Council
Designed:
CHASE KEMP

DIS Review - Banana Shire Council
Certified:
CHARLES COOK
RPEQ #: 8480



Dwg. No. PRJ-0342-01-RS04

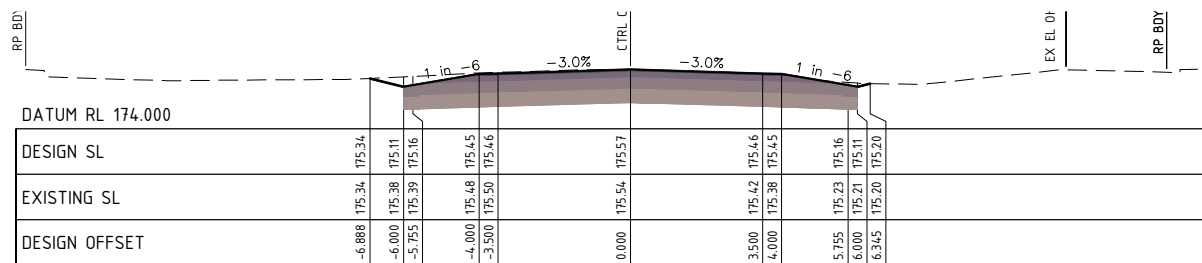
PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS LONGITUDINAL SECTIONS - SHEET 04



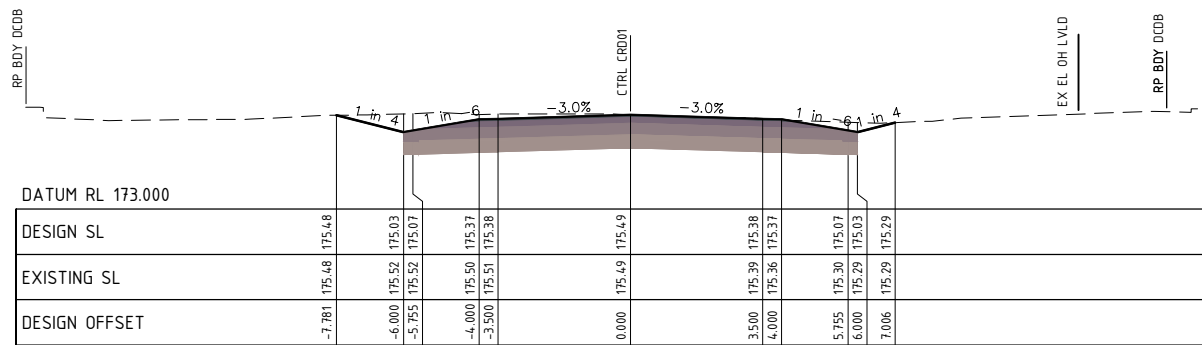
Sheet 13 OF 19
Issue A



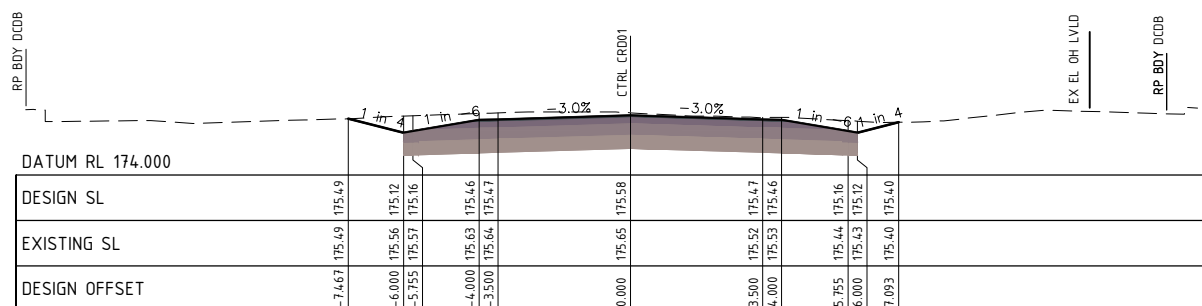
NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



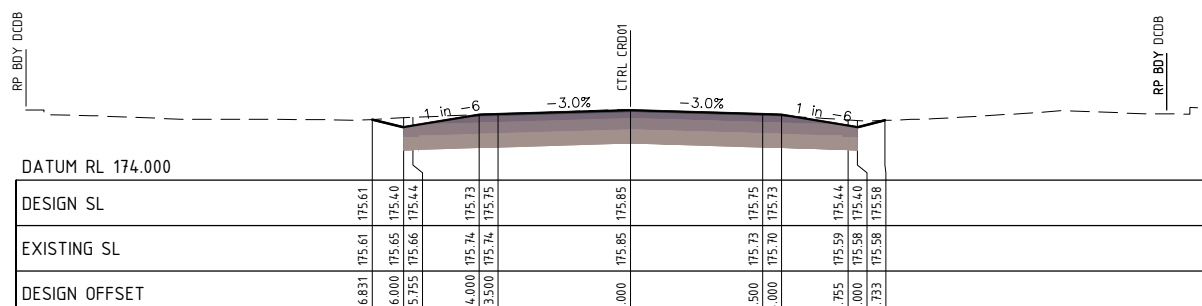
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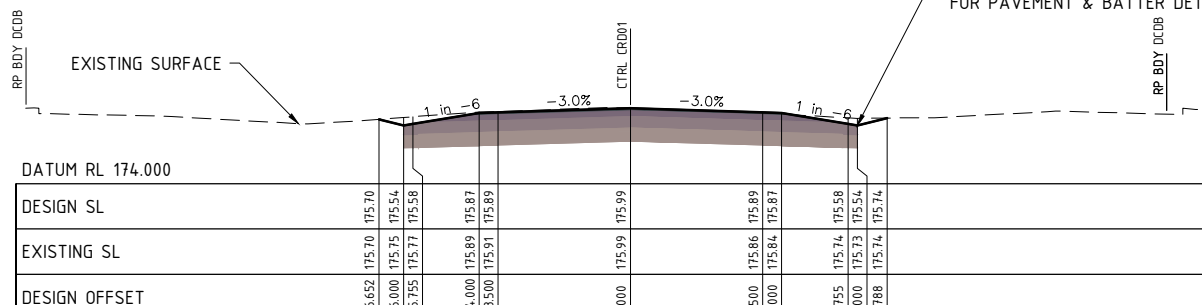
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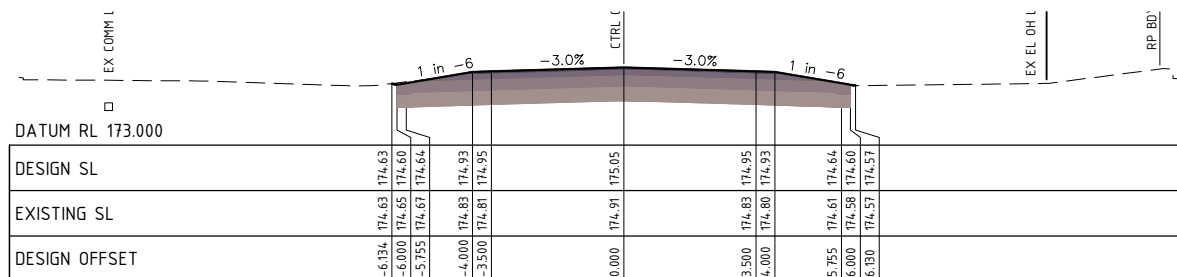


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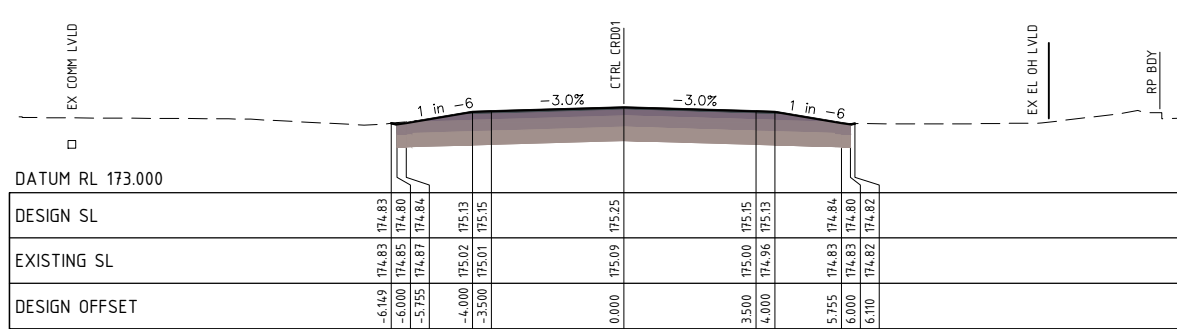


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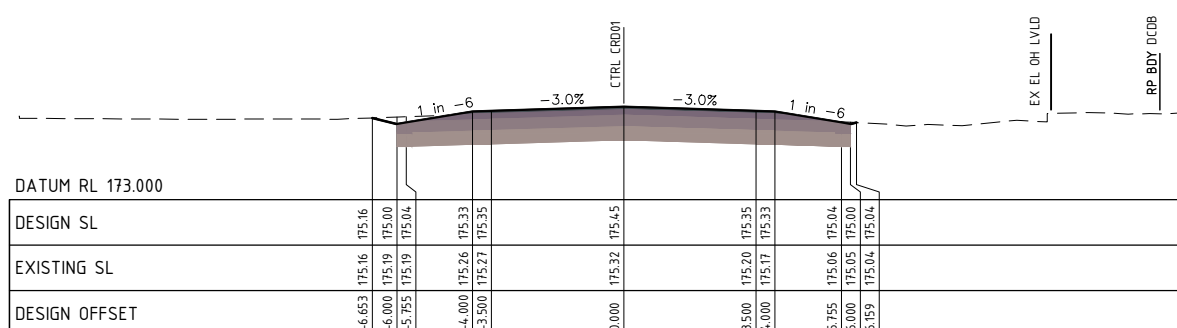
REFER TO DWG RT01 & RT02 FOR PAVEMENT & BATTER DETAIL



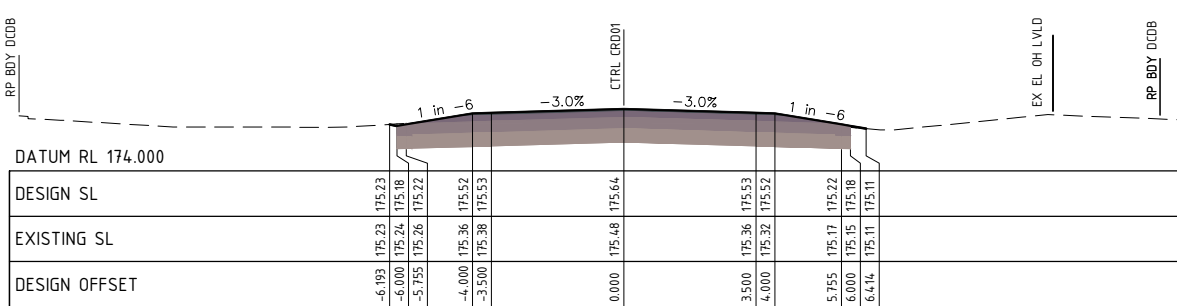
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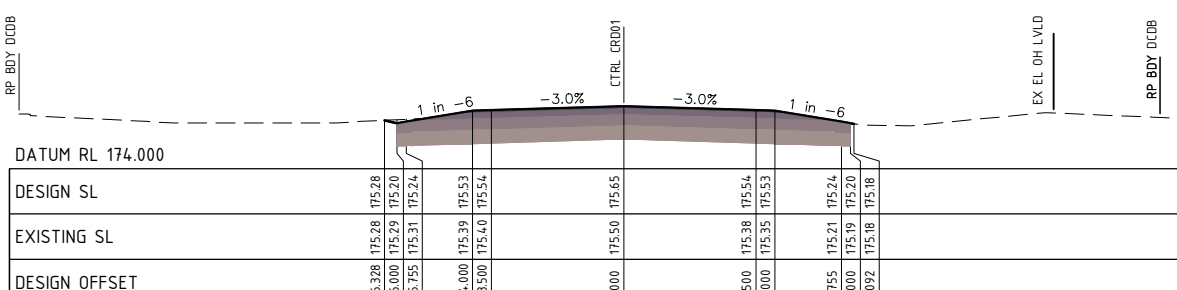
CHAINAGE 1300



CHAINAGE 1250



CHAINAGE 1200



CHAINAGE 1185.538

Notes:

TO BE READ IN CONJUNCTION WITH DRAWING GN02.
COUNCIL REFERENCE CHAINAGE IS CHO. AT
E. 24d 24' 20.241288"S
N. 150d 32' 7.2708"E

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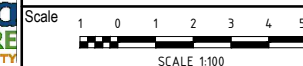
MTS - Banana Shire Council
Drawn:
SAMANTHA WILSON

a/MW - Banana Shire Council
Designed:
CHASE KEMP

DIS Review - Banana Shire Council
Certified:
CHARLES COOK
RPEQ #: 8480

SHIRE OF OPPORTUNITY

PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS CROSS SECTIONS - SHEET 01



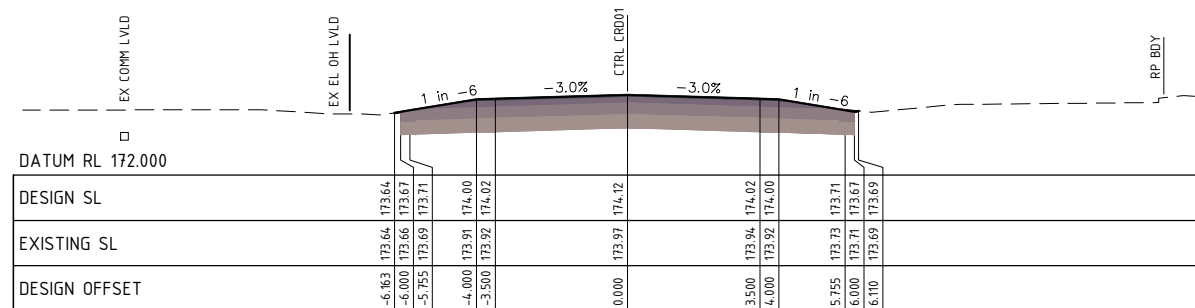
Dwg. No. PRJ-0342-01-RS05
Sheet 14 OF 19

Issue A

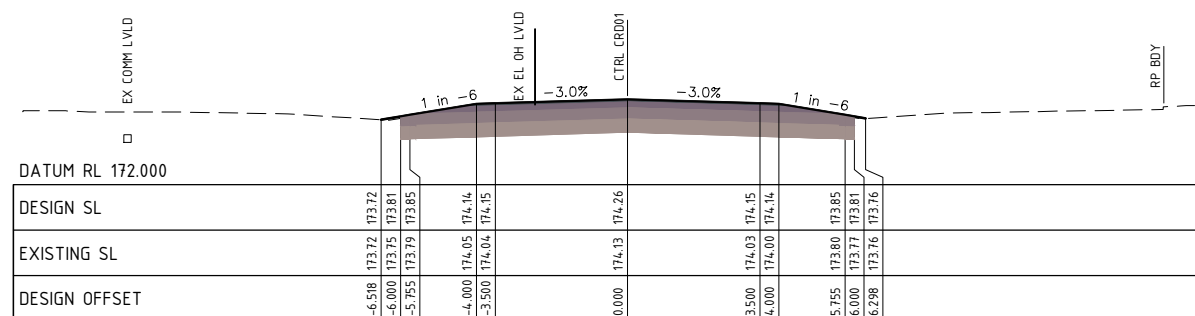
A	FOR APPROVAL	05.08.24
No.	Revision	Date



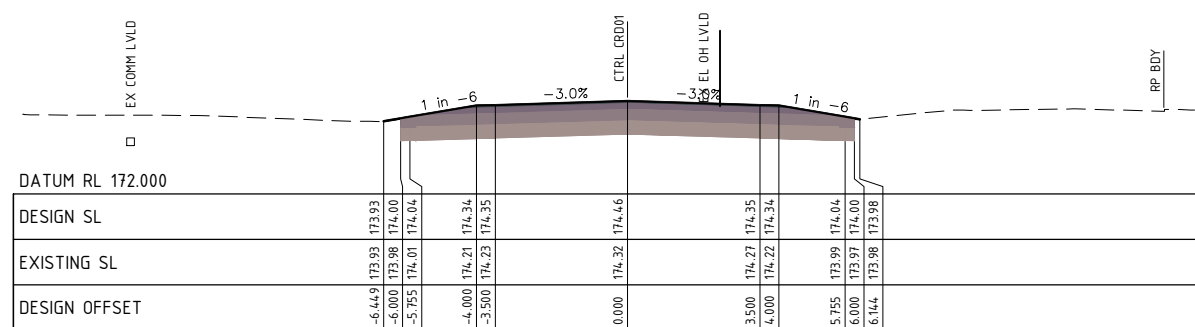
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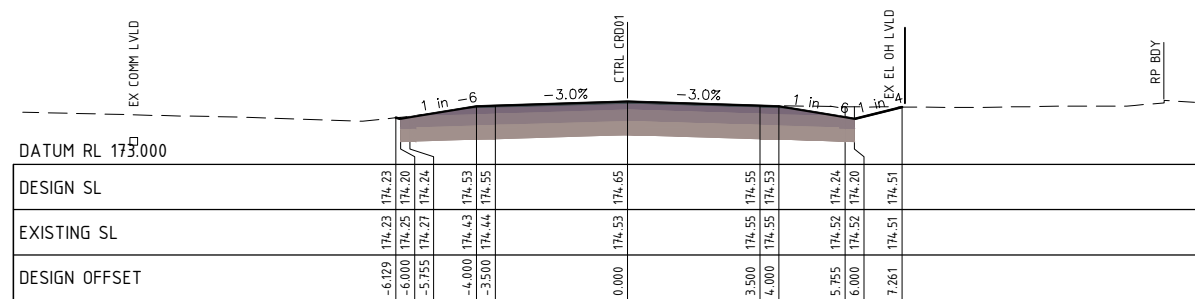
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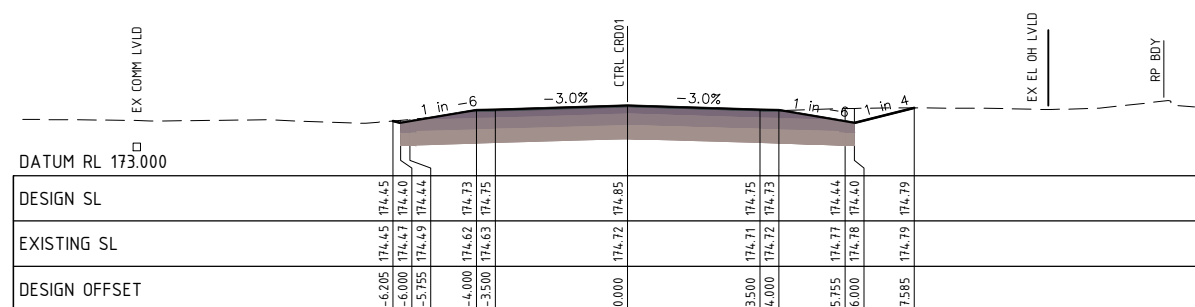
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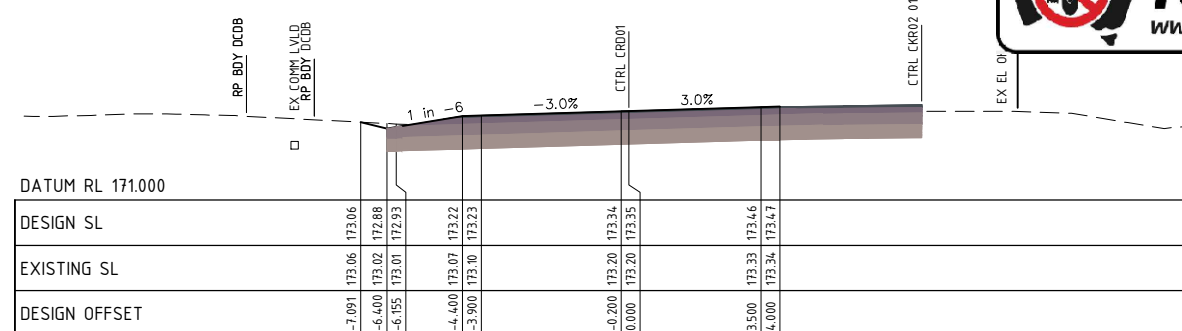
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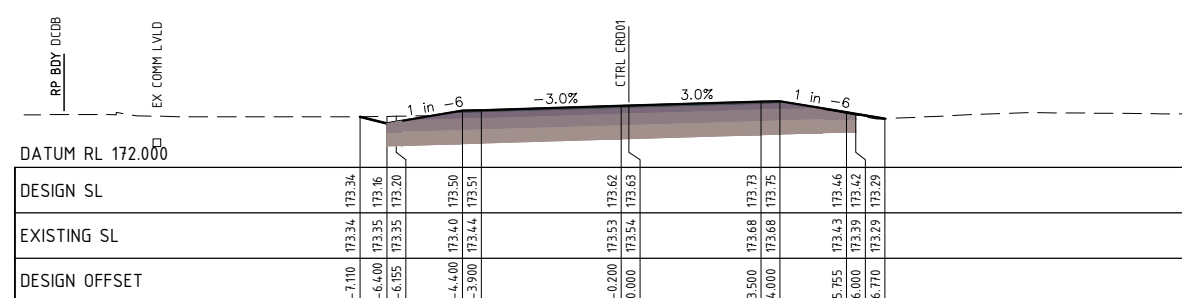
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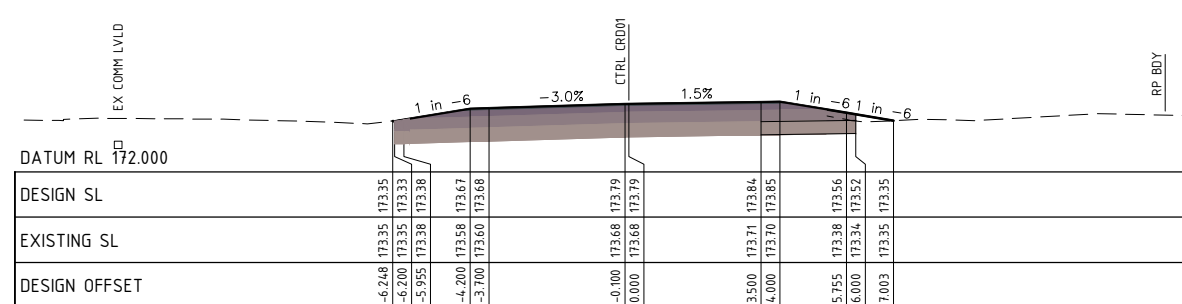
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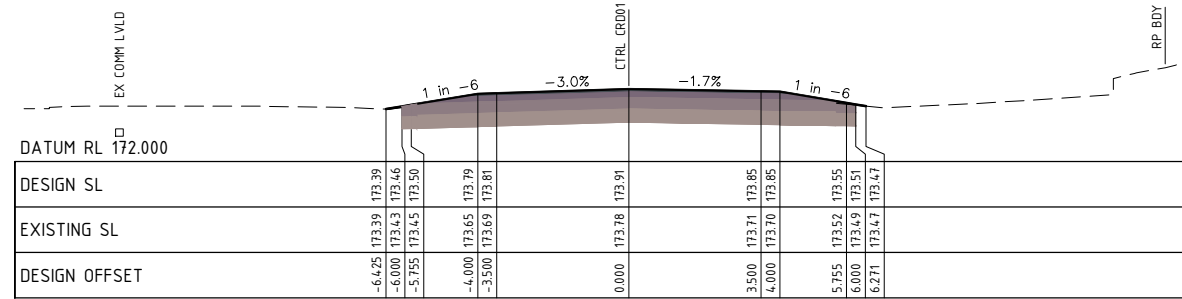
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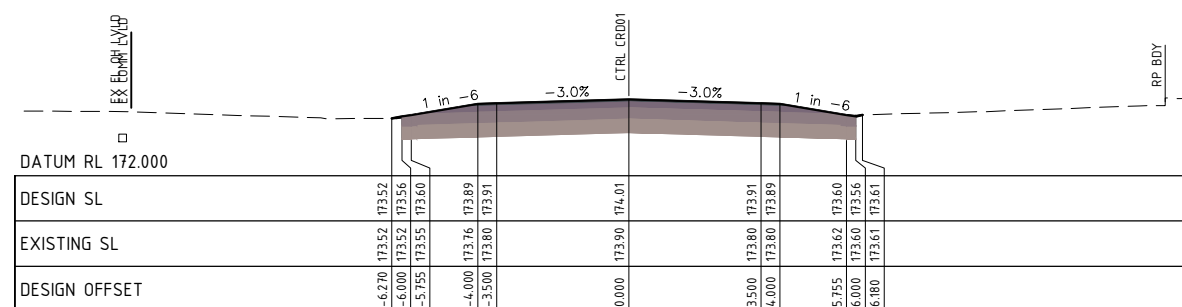
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CHAINAGE 1721.016



CHAINAGE 1700



CHAINAGE 1650

Notes:

TO BE READ IN CONJUNCTION WITH DRAWING GN02.
COUNCIL REFERENCE CHAINAGE IS CHO. AT
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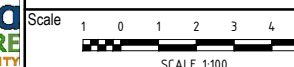
MTS - Banana Shire Council
Drawn:
SAMANTHA WILSON

a/MW - Banana Shire Council
Designed:
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DIS Review - Banana Shire Council
Certified:
CHARLES COOK
RPEQ #: 8480



PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS CROSS SECTIONS - SHEET 02



Dwg. No. PRJ-0342-01-RS06

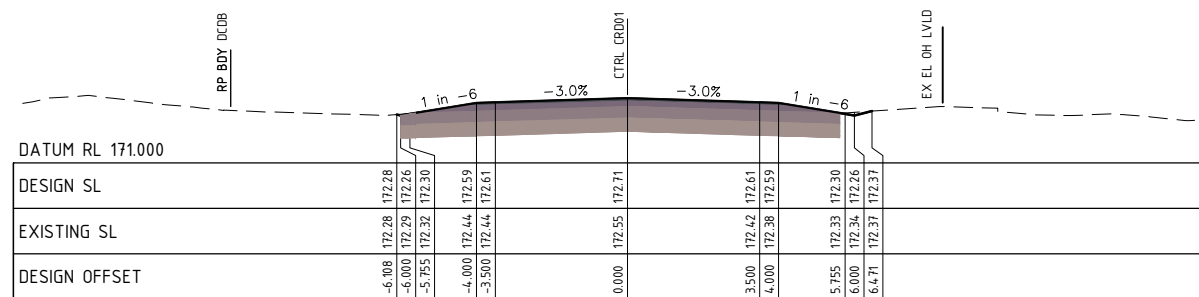
Sheet 15 OF 19

Issue A

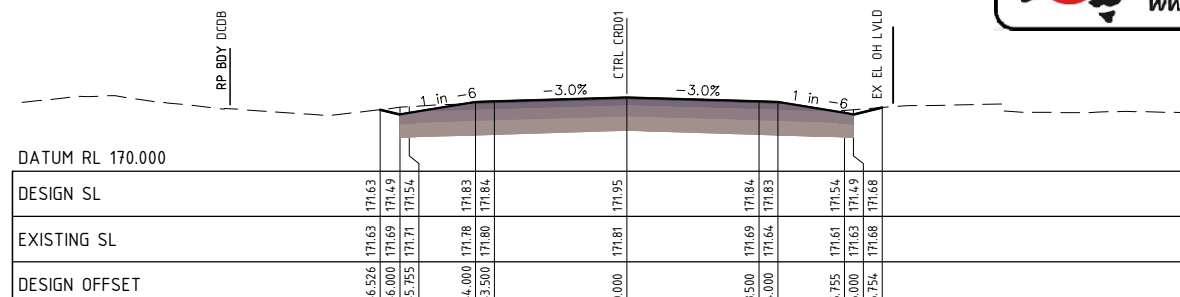
No.	Revision	Date
A	FOR APPROVAL	05.08.28



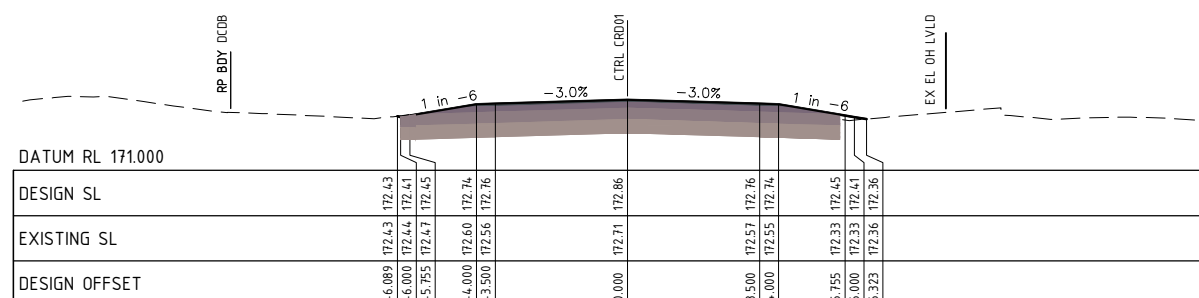
NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



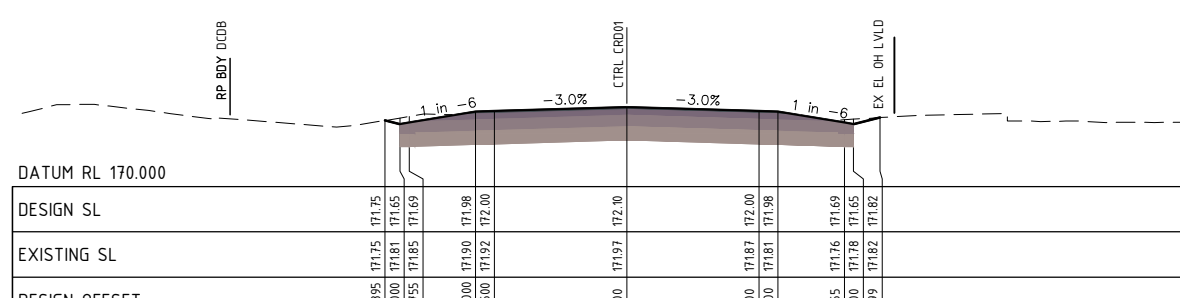
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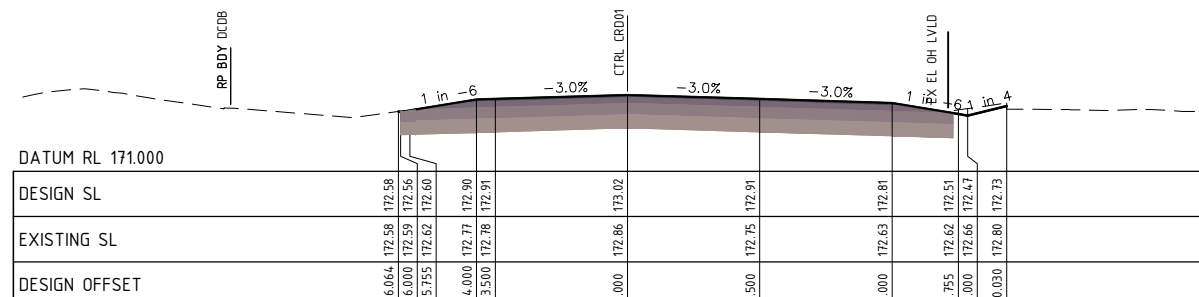
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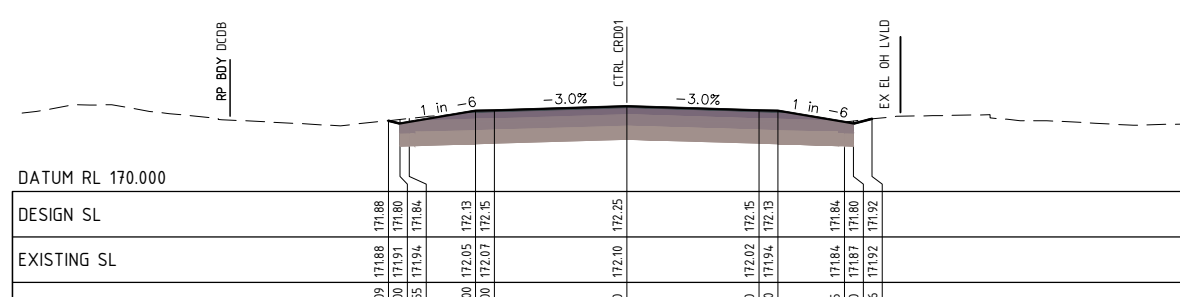
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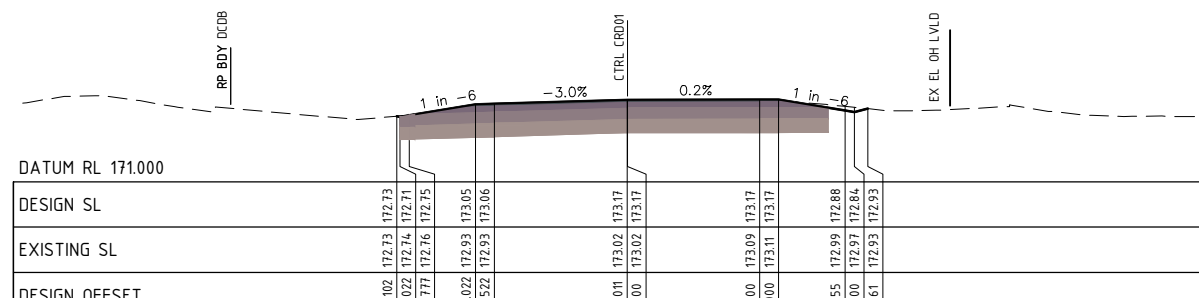
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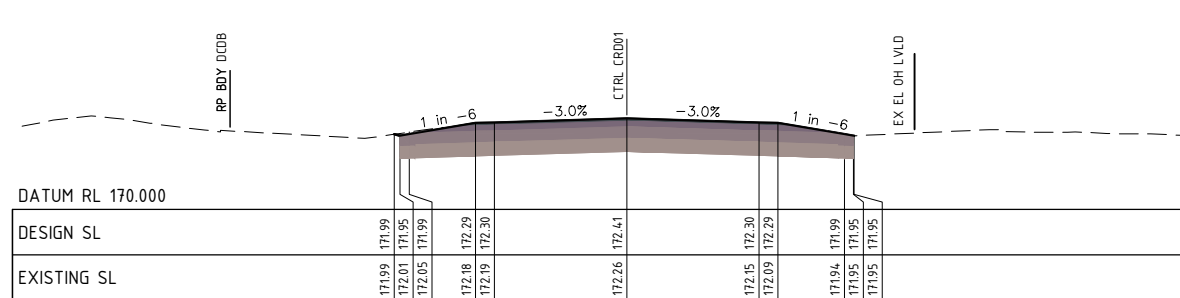
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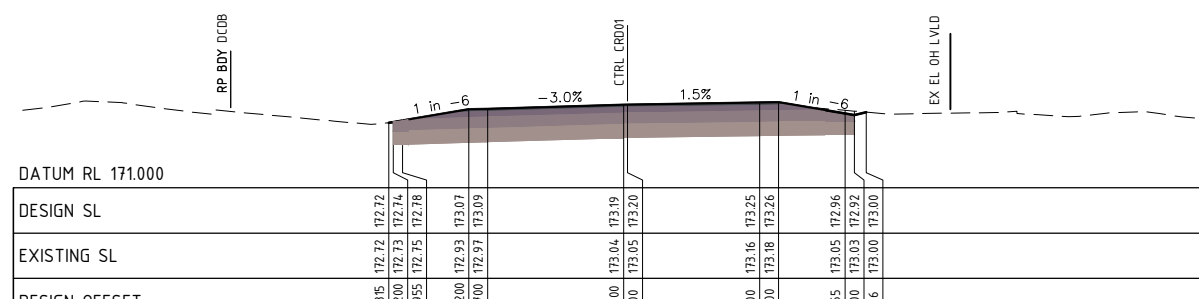
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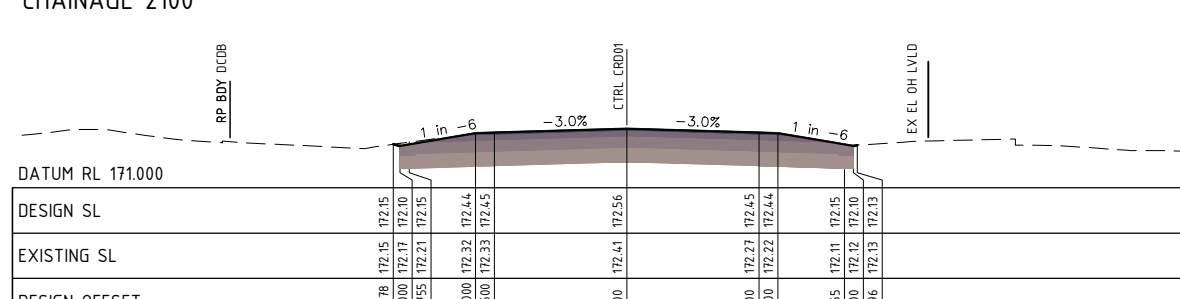
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CHAINAGE 2050

Notes:

TO BE READ IN CONJUNCTION WITH DRAWING GN02.
COUNCIL REFERENCE CHAINAGE IS CHO. AT
E. 24d 24' 20.241288"S
N. 150d 32' 7.2708"E



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OFFICE: ROCKHAMPTON

MTS - Banana Shire Council

Drawn:
SAMANTHA WILSON

a/MW - Banana Shire Council

Designed:
CHASE KEMP

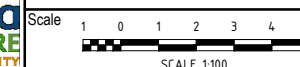
DIS Review - Banana Shire Council

Certified:
CHARLES COOK

RPEQ #: 8480



PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS CROSS SECTIONS - SHEET 03



Dwg. No. PRJ-0342-01-RS07

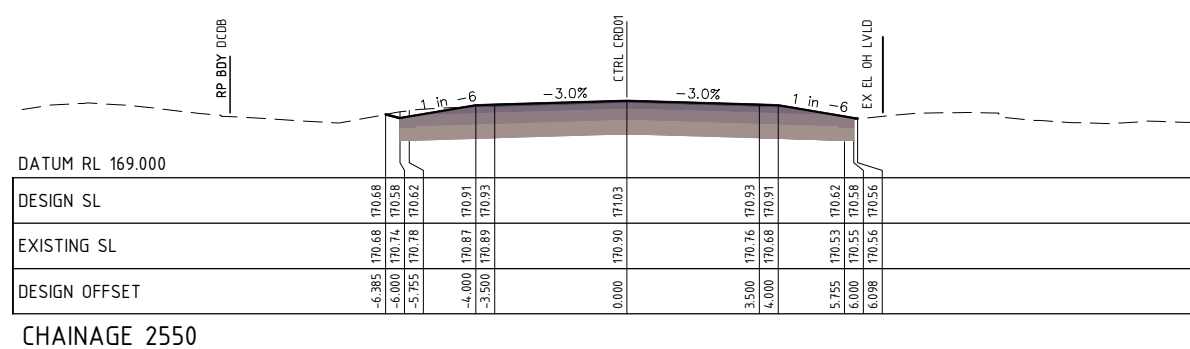
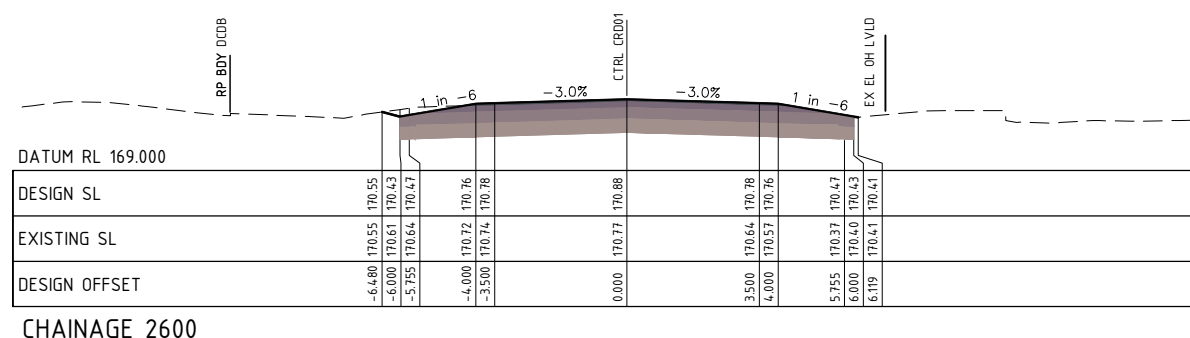
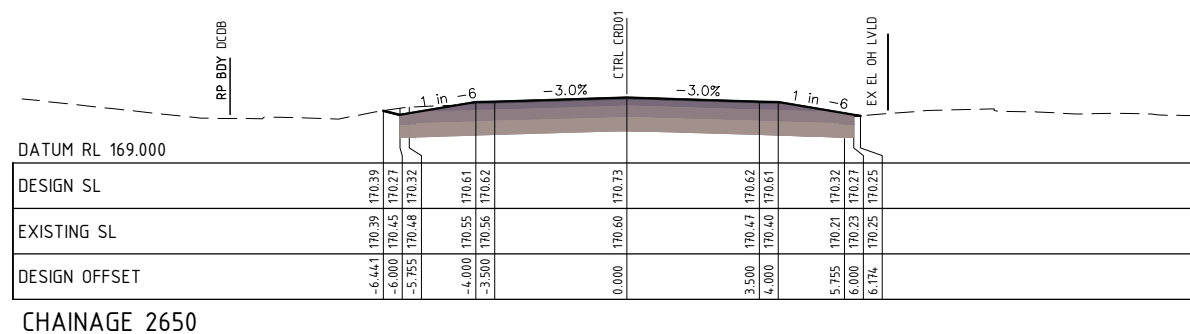
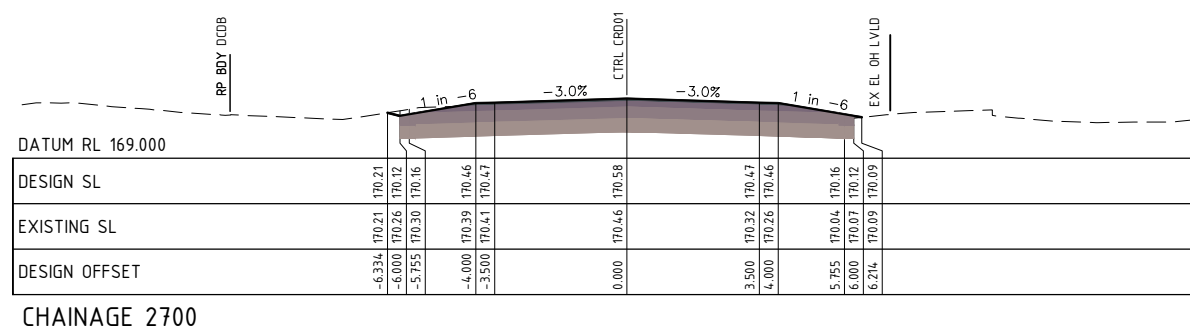
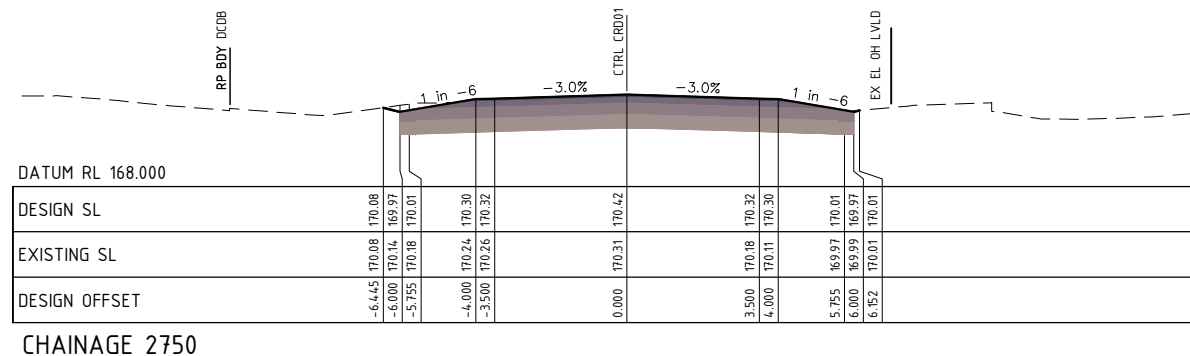
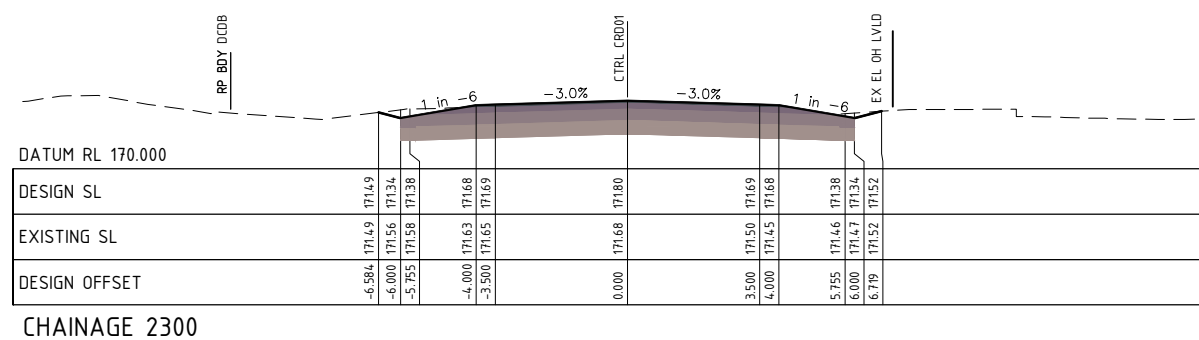
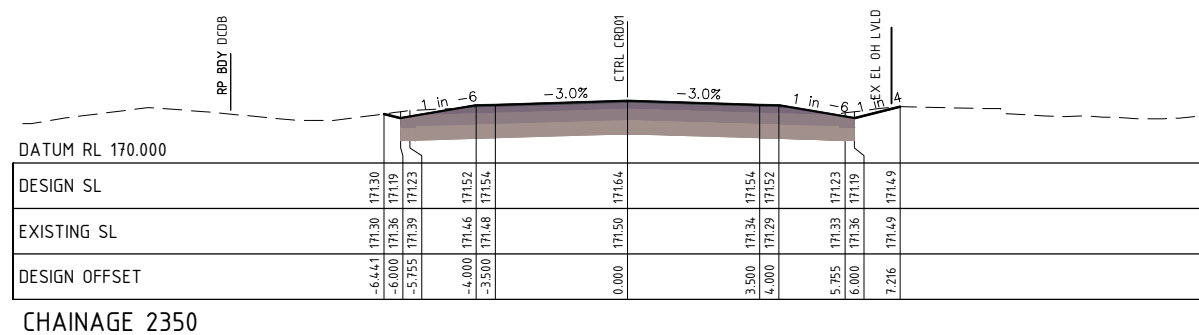
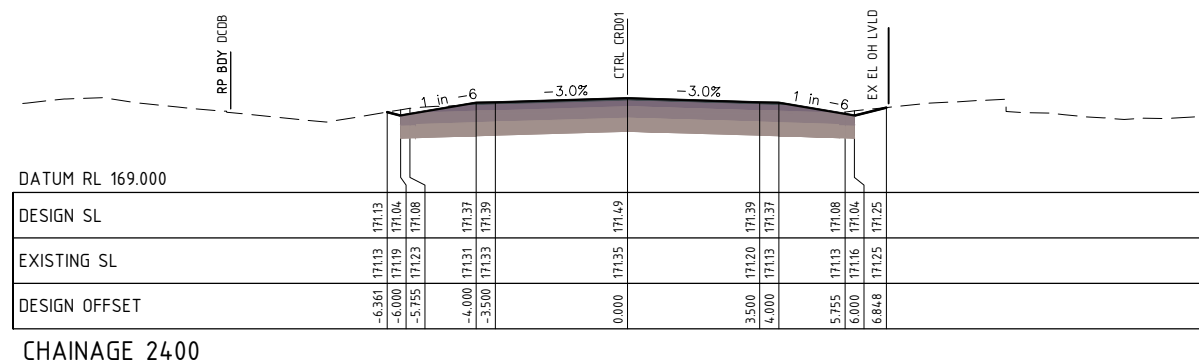
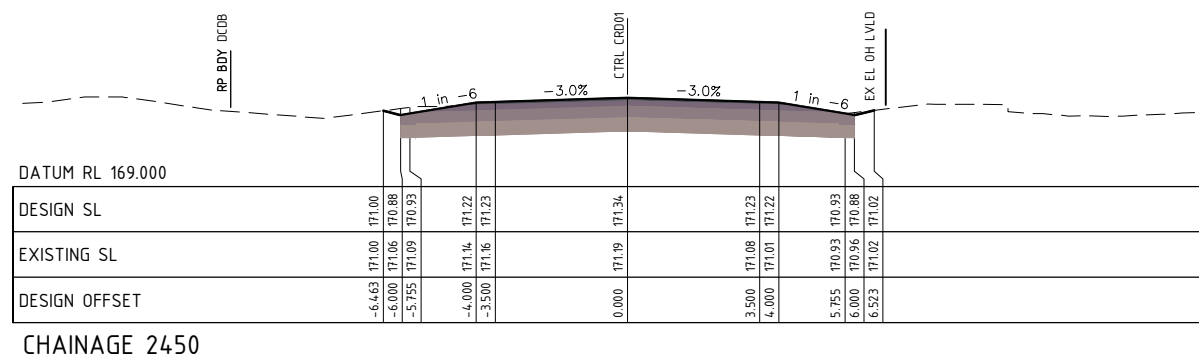
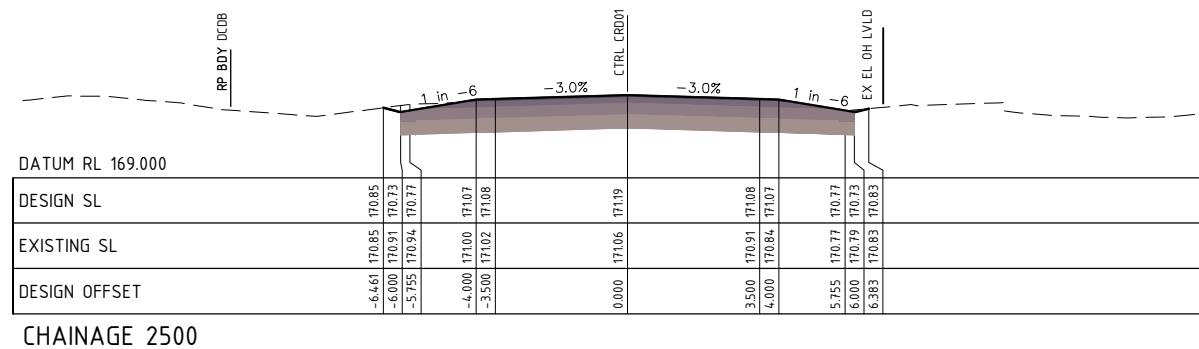
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No.	Revision	Date
A	FOR APPROVAL	05.08.24



NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



Notes:	
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A	FOR APPROVAL
No.	Revision
	Date

Notes:
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a/MW - Banana Shire Council
Designed: CHASE KEMP

DIS Review - Banana Shire Council
Certified: CHARLES COOK
RPEQ #: 8480



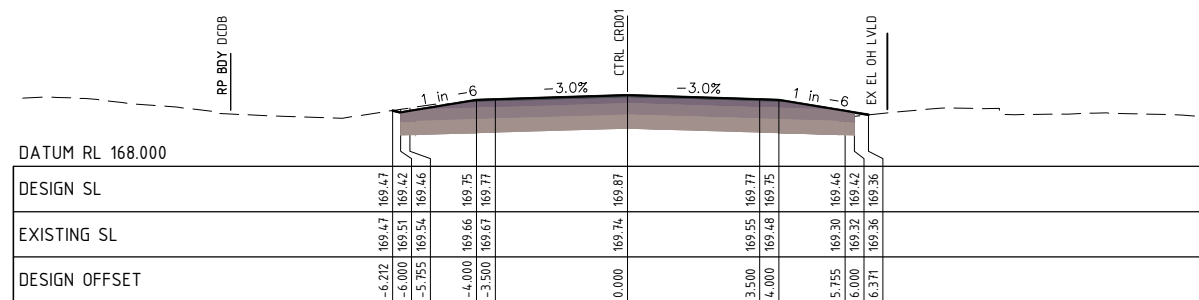
PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS CROSS SECTIONS - SHEET 04

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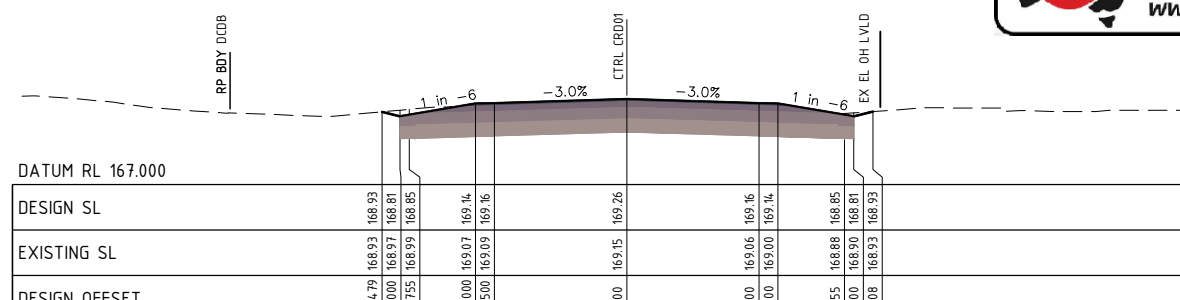
Dwg. No. PRJ-0342-01-RS08
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Issue A



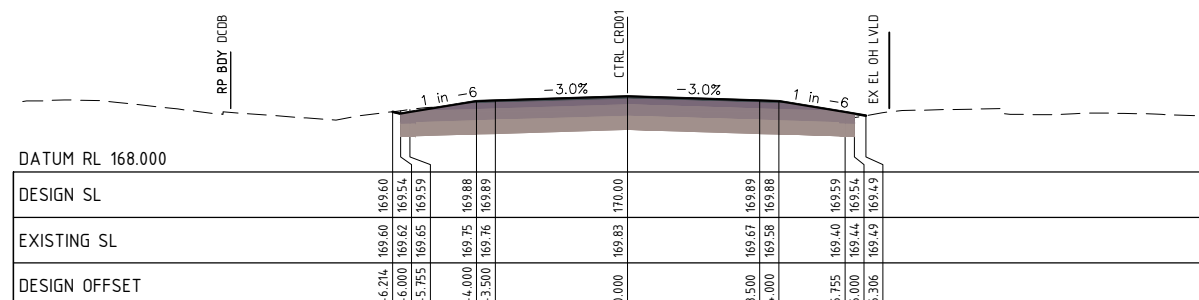
NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



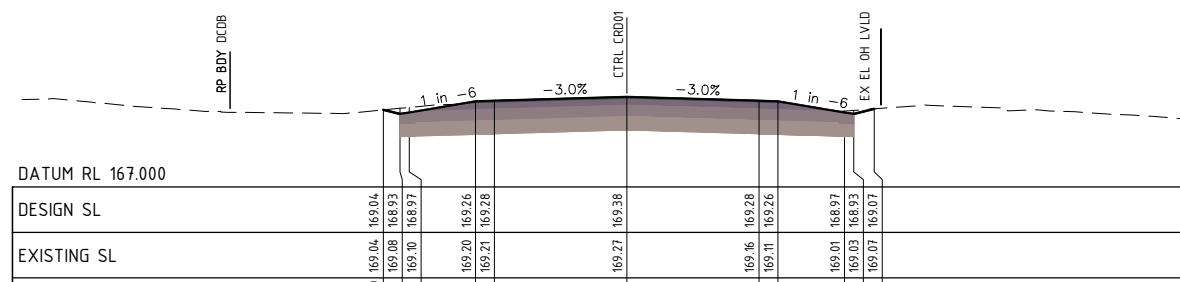
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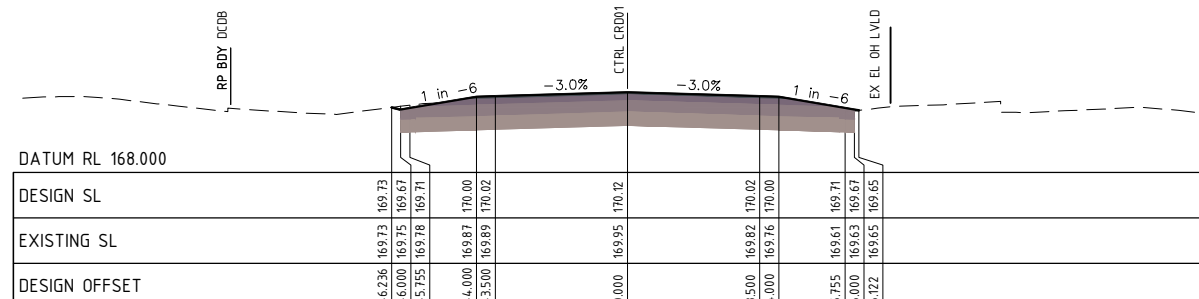
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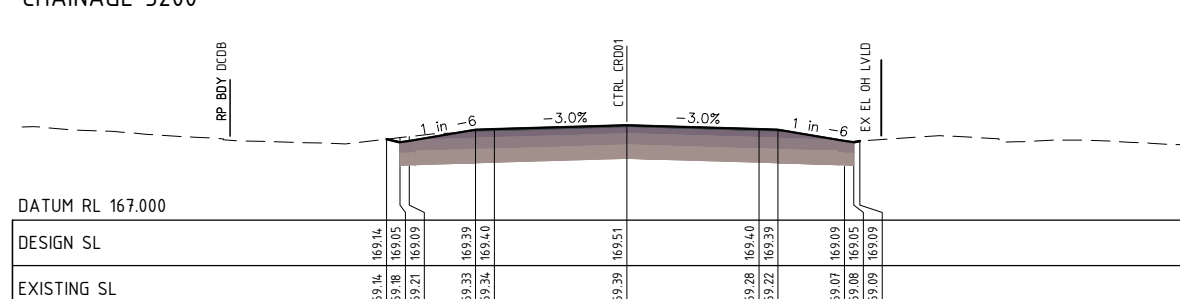
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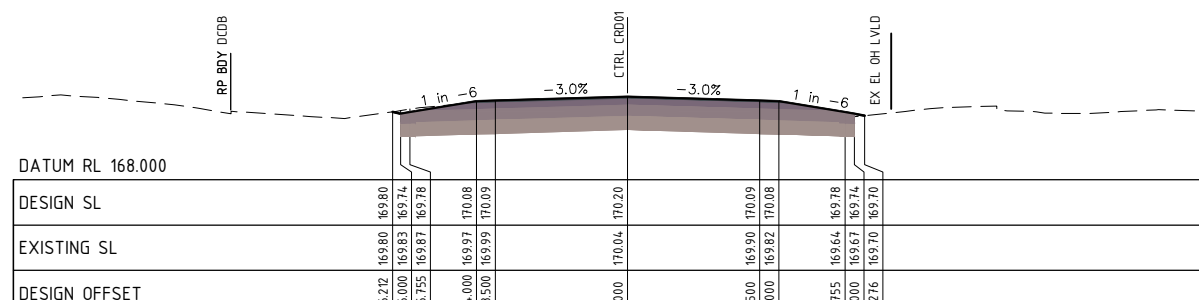
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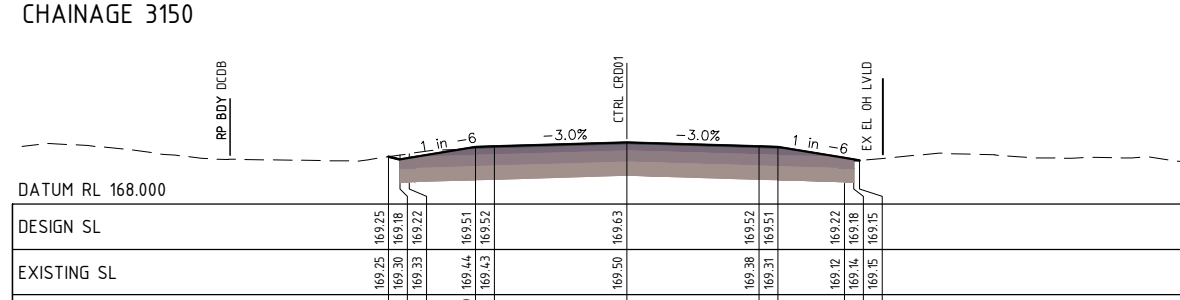
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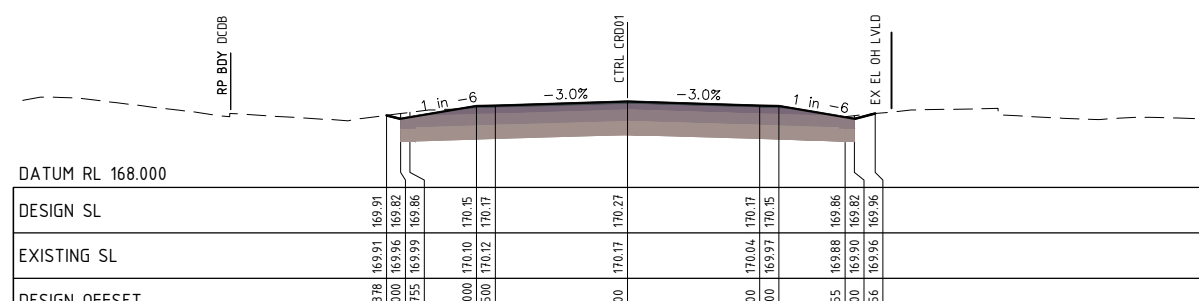
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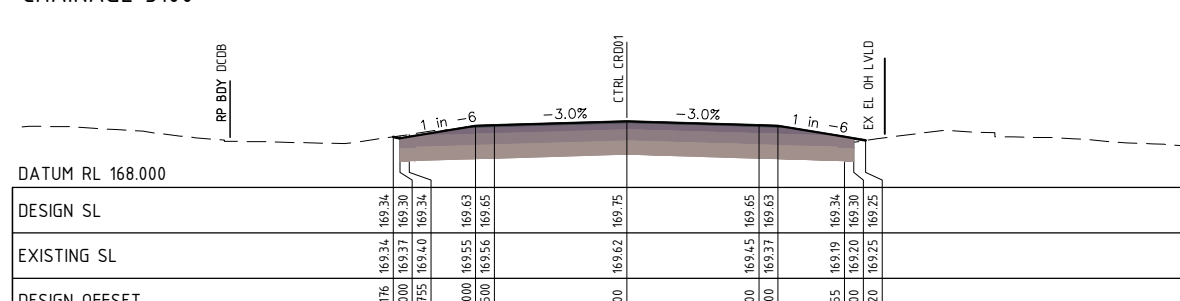
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CHAINAGE 2800



CHAINAGE 3050

Notes:

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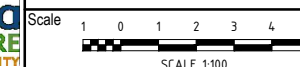
MTS - Banana Shire Council
Drawn: SAMANTHA WILSON

a/MIW - Banana Shire Council
Designed: CHASE KEMP

DIS Review - Banana Shire Council
Certified: CHARLES COOK
RPEQ #: 8480



PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS CROSS SECTIONS - SHEET 05

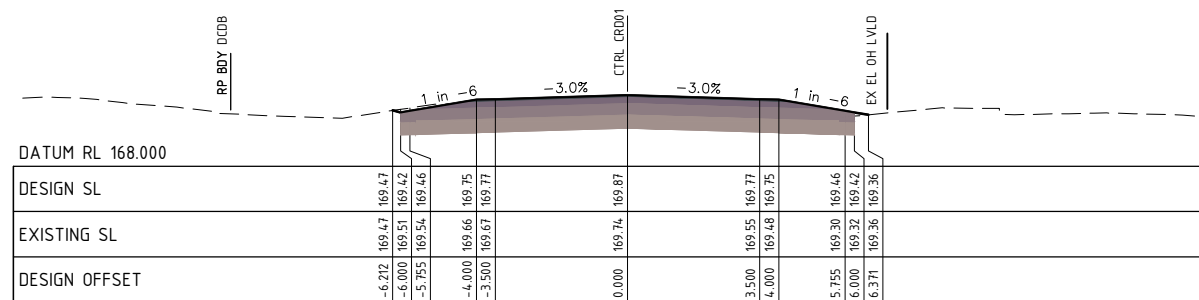


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Issue A

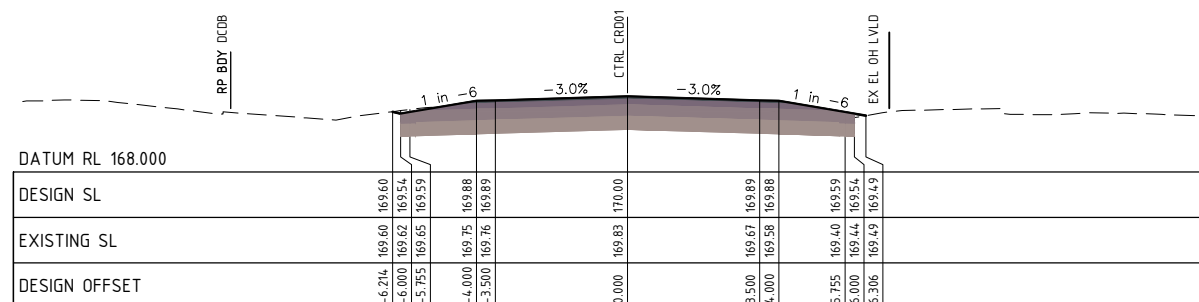
No.	Revision	Date
A	FOR APPROVAL	05.08.28



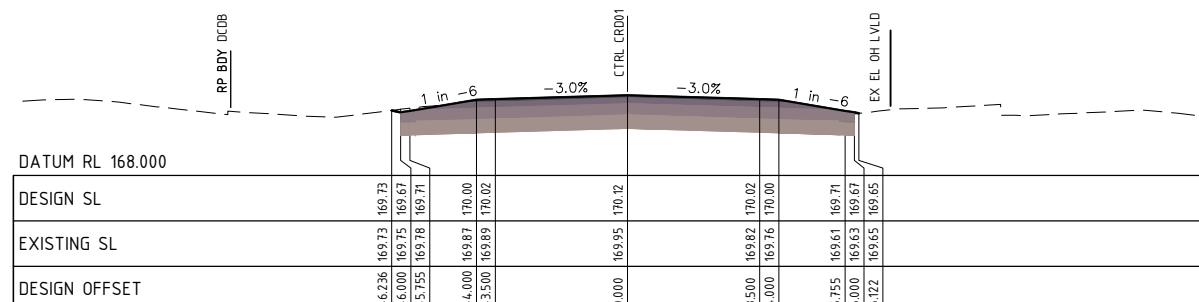
NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY



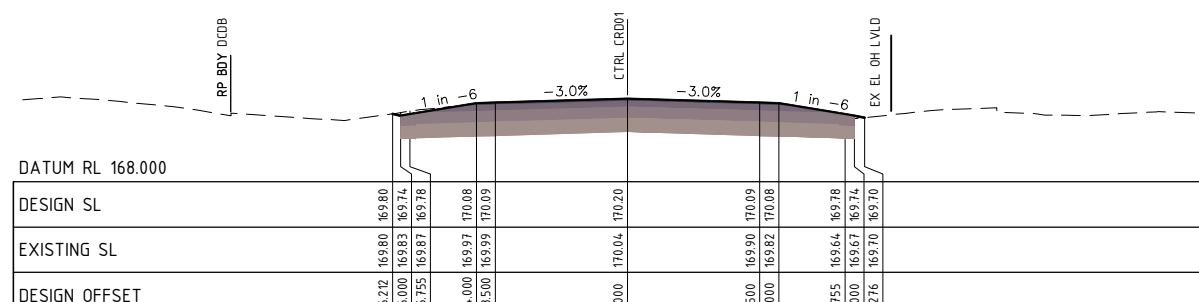
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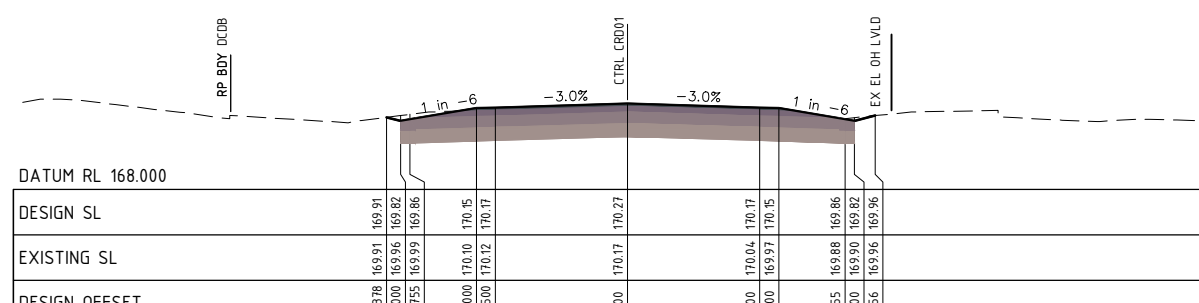
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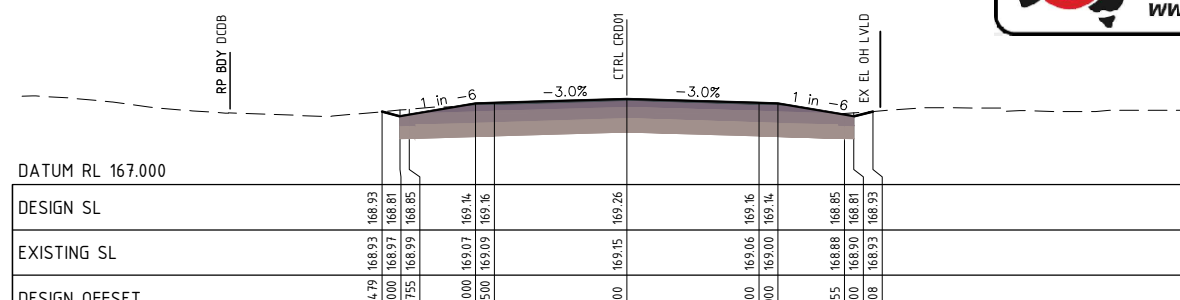
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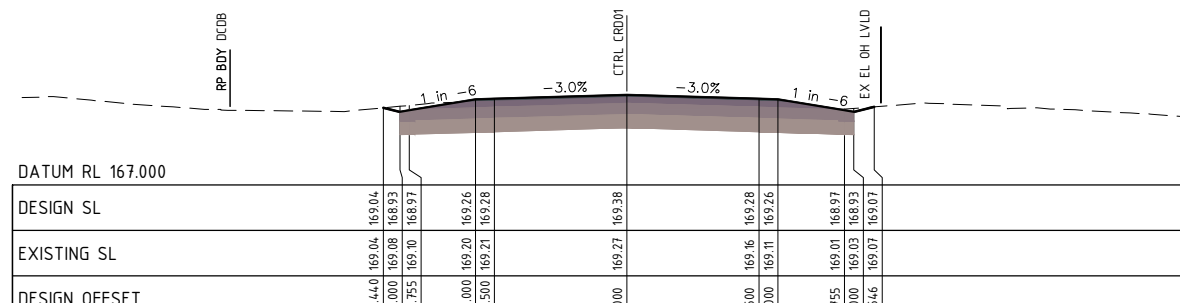
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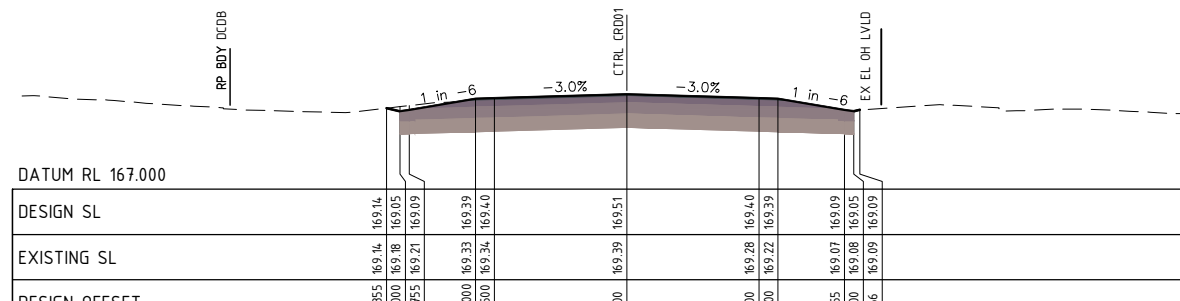
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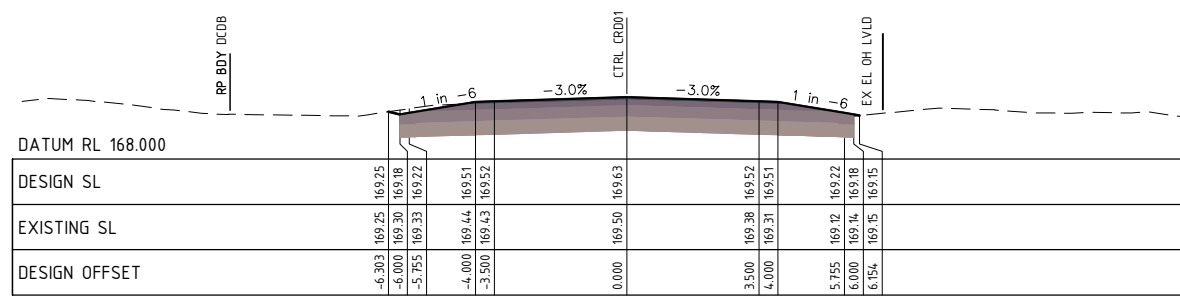
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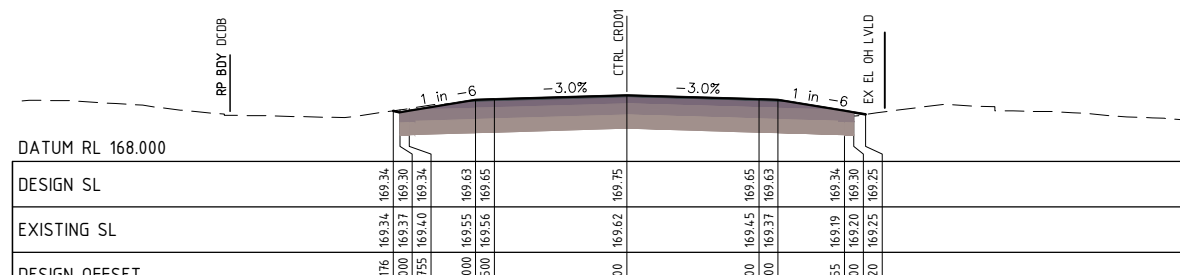
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CHAINAGE 3100



CHAINAGE 3050

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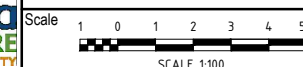
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DIS Review - Banana Shire Council
Certified:
CHARLES COOK
RPEQ #: 8480



PAVEMENT REHABILITATION, RESEAL & DRAINAGE WORKS
SHEPHERDSONS RD, BILOELA
ROADWORKS CROSS SECTIONS - SHEET 06



Dwg. No. PRJ-0342-01-RS10
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Issue A

No.	Revision	Date
A	FOR APPROVAL	05.08.24