



LATE AGENDA

Ordinary Meeting of Council

To be held on Tuesday 24 September 2024

At 12:00 pm

Civic Centre, Council Chambers

24 Stuart Highway, Katherine NT 0850

The Chief Executive Officer of Katherine Town Council
hereby provides notice of the Ordinary Meeting of Council
in accordance with Section 92 of the *Local Government Act 2019*

LATE AGENDA ITEMS

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17 LATE REPORTS OF OFFICERS

17.1 KATHERINE TOWN COUNCIL COMMUNITY GRANTS PROGRAM 2024-2025

Author: Amanda Haigh, Manager Governance and Risk
 Authoriser: Ingrid Stonhill, Chief Executive Officer
 Report Type: For decision
 Attachments: Nil

Officer Recommendation

1. That Council award the Community Grants 2024-25 as per the assessment panels recommendations below:

Organisation	Project	Amount
Katherine Senior Citizen Association	Purchase of Replacement Computer	\$2,000
Katherine Football Club	2024 Wet Season Indoor Soccer Program – funding towards court hire	\$2,000
Australian Red Cross Katherine	Connected Women Program - Capacity Building Workshops	\$2,000
Step Out Disability Services	Step Out Communication Club	\$2,000
Katherine Nepali Association Incorporated	Nepalese Dashain Festival 2024	\$2,000
Katherine Show Society	Katherine Show & Rodeo -60th Birthday	\$2,000
Katherine Senior Citizen Association	Community Christmas Lunch	\$3,850
NT School Music	Katherine Beat	\$5,000
Katherine Film Society	Festival of Films 2024 - 2025	\$2,866
National Trust of Australia (NT)	Christmas Lights at O'Keeffe House	\$5,000
Katherine FM	Katherine Community Radio Inc. new office equipment	\$5,000
TOTAL		\$33,716

2. That Council approve the remaining funding pool of \$26,284 remains in the 2024-2025 budget to use for future support and sponsorships requests that meet the Council Community Grant guidelines.

Purpose of Report

To accept the recommendation of the Community Grants Assessment Panel and award the Community Grants for 2024-25 year.

Strategic Plan

1. STRONG LEADERSHIP - 1.3 Community Engagement - Improve Council communications and engagement with the community.

1.3.3 Identify a number of tools to ensure our engagement is broad, inclusive and accessible to our diverse community.

2. COMMUNITY AND FAMILIES - 2.2 Prioritise Recreation - Collaborate and innovate with the private and public sectors for positive social, economic, and environmental outcomes.

2.2.3 Promote an active community with family events, festivals, live music and sports.

2. COMMUNITY AND FAMILIES - 2.4 Support Our Youth - Support youth engagement.

2.4.1 Empower youths through youth-focused events and school-holiday activities.

5. ARTS, CULTURE AND HERITAGE - 5.2 Support Culture - Acknowledge and promote multiculturalism

5.2.1 Include multicultural activities in our event planning.

Municipal Plan

2.4.1.1 Provided a range of youth focused, free and accessible community events and/or programs

5.2.1.1 Provided a continually developing calendar of free and accessible community events, covering across all areas of our local community

5.2.5.1 Support and partner with identified stakeholders to hold events

5.3.3.1 Support arts and multicultural events and assess new opportunities

Background

Katherine Town Council's Community Grants Program is dedicated to supporting local individuals, organisations, and groups passionate about making a positive impact within our community. The grants program is to provide a transparent and accountable system of distributing funds by application, to community groups, organisations, and individuals to assist in the development and implementation of Council's strategic objectives. The grants must help fund initiatives that align with the Council's five-year strategic plan, promoting community development, enhancing social cohesion, and addressing local needs.

The grants assist the local community in achieving community development principles and to further contribute to the betterment and the well-being of the citizens of Katherine and the enhancement of our environment.

The applications are assessed by the Community Grants Assessment Panel, which then recommends to the Council for endorsement. Once the recommendations have been adopted by the Council, grant funding letters are emailed to the applicants advising them of the outcome. Funding must be acquitted as per the funding agreement.

Discussion

In 2024-25 \$60,000 is allocated to the program. Applicants may apply for a minor grant of up to \$2,000 for capital purchases or initiatives, or up to \$5,000 for a major event. The 2024-25 round opened from the 1st of August through to the 31st of August.

Two information sessions were held on Wednesday, 7 August 2024, 4.30 pm-6.00 pm, and Thursday, 8 August 2024, 9.30 am-11.00 am, at the Civic Centre to provide an overview of the program application process, as well as a Q&A session to address any queries or concerns. The Thursday session was well attended and there was no interest for the evening session.

A total of 12 applications were received, 6 for the minor grants category and 6 for the major events category. Total funding requested \$38,716. This leaves remaining in the funding pool \$26,284.

The Community Grants panel met on Friday 20th of September 2024 to assess the applications received. The Panel consisted of the following members, Her Worship the Mayor, Elisabeth Clark, Councilor Peter McDougall and the Manager Governance and Risk, Amanda Haigh.

The assessment panel recommend the remainder funding remains in the budget to use for future support and sponsorships requests that meet the guidelines.

Following the awarding of the grants all applicants will be notified of the outcome with successful applicants provided with funding agreements.

The panel determines that the grant funding should be disbursed and awarded to the organisations as follows:

Minor Grants (Up to \$2,000)

Organisation	Project	Amount
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Katherine Senior Citizen Association	Purchase of Replacement Computer	\$2,000
Katherine Football Club	2024 Wet Season Indoor Soccer Program	\$2,000
Australian Red Cross Katherine	Connected Women Program - Capacity Building Workshops	\$2,000
Step Out Disability Services	Step Out Communication Club	\$2,000
Katherine Nepali Association Incorporated	Nepalese Dashain Festival 2024	\$2,000
Katherine Show Society	Katherine Show & Rodeo -60th Birthday	\$2,000
TOTAL		\$12,000

Major Grants (Up to \$5,000)

Organisation	Event	Amount
Katherine Senior Citizen Association	Community Christmas Lunch	\$3,850
NT School Music	Katherine Beat	\$5,000
Katherine Film Society	Festival of Films 2024 - 2025	\$2,866
National Trust of Australia (NT)	Christmas Lights at O'Keeffe House	\$5,000
Katherine FM	Katherine Community Radio Inc. new office equipment	\$5,000
TOTAL		\$21,716

Councillor McDougall declared an interest in the Katherine Show Society and was not part of the assessment.

The assessment panel recommend the Christmas Lights at O'Keeffe House are not eligible for the Christmas light competition due to being funded by council.

Consultation Process

Two information sessions were held on Wednesday, 7 August 2024, 4.30 pm-6.00 pm, and Thursday, 8 August 2024, 9.30 am-11.00 am, at the Civic Centre to provide an overview of the program application process, as well as a Q&A session to address any queries or concerns. The Thursday session was well attended and there was no interest for the evening session.

The Community Grants panel met on Friday 20th of September 2024 to assess the applications received. The Panel consisted of the following members, Her Worship the Mayor, Elisabeth Clark, Councilor Peter McDougall and the Manager Governance and Risk, Amanda Haigh.

Policy Implications

There are no policy implications resulting from the decision.

Budget and Resource Implications

Within current service delivery budget and resource.

Risk, Legal and Legislative Implications

There are no risk, legal and legislative implications.

Environment Sustainability Implications

There are no environmental sustainability implications.

Council Officer Conflict of Interest

We the Author and Approving Officer declare we do not have a conflict of interest in relation to this matter.

17.2 FLOOD MITIGATION - SOUTHERN LEVEE PLANS

Author:	Kimberly Worrigal, Contracts Coordinator
Authoriser:	Ingrid Stonhill, Chief Executive Officer
Report Type:	For decision
Attachments:	<ol style="list-style-type: none">1. Katherine South Flood Mitigation 50% Design Drawings - 1 of 4 [17.2.1 - 3 pages]2. Katherine South Flood Mitigation 50% Design Drawings - 2 of 4 [17.2.2 - 8 pages]3. Katherine South Flood Mitigation 50% Design Drawings - 3 of 4 [17.2.3 - 9 pages]4. Katherine South Flood Mitigation 50% Design Drawings - 4 of 4 [17.2.4 - 15 pages]5. Katherine South Flood Mitigation COMBINED DETOUR [17.2.5 - 4 pages]

Officer Recommendation

That the Council receive and endorse the design plans for the construction of the Southern Levee, as part of the Flood Mitigation.

Purpose of Report

To seek endorsement of detour and construction plans for the Southern Levee installation.

Strategic Plan

1. STRONG LEADERSHIP - 1.5 Financial - Have long-term financial sustainability in Council to allow for continued growth and development.

1.5.1 Collaborate with all three levels of government.

Municipal Plan

1.5.1.1 CEO to participate in intergovernmental reference groups and engage NT and federal government as stakeholders in Council initiatives

Background

The Northern Territory Government has developed a project to install an embankment and levee walls to increase Katherine's flood resilience. The Northern section of the levee (Stage 1) has already been installed. NTG is now seeking endorsement from the council to proceed with Stage 2, Southern Levee, as it incorporates the Katherine Showgrounds.

Discussion

As part of the Katherine Flood Mitigation Project, Stage 2 - Southern Levee, final plans have been completed. The NTG is now seeking the council's approval to move forward with the tender and project execution. On August 1, 2024, the Department of Lands and Planning presented the Southern Levee installation plans to the Council. DIPL is committed to minimising disruptions to user groups and events at the Katherine Showgrounds during the construction period.

The only change from the previous Council presentation is that the road raising on Victoria Highway has been removed from the project scope. Additional surveys and modeling have confirmed that the levee can connect to the existing truck parking bay without increasing flood risks to developed lots and buildings. Consequently, this change eliminates the need for traffic management and detours on Victoria Highway throughout construction.

Attached are the detour plans for accessing the Katherine Golf Club, which will reroute traffic through the Showgrounds along the front access road. To ensure the security of the Showgrounds during this time, DIPL will provide extra fencing.

Furthermore, the council plans to request a quote from DIPL to clear the council fence lines adjacent to the members' car park during construction, as machinery will already be on site. This will enhance bushfire

protection for the Showgrounds and negate the need for the council to undertake this work later.

Consultation Process

There was no consultation process required for this report.

Policy Implications

There are no policy implications resulting from the decision.

Budget and Resource Implications

There are no budget and resource requirements.

Risk, Legal and Legislative Implications

There are no risk, legal and legislative implications.

Environment Sustainability Implications

There are no environmental sustainability implications.

Council Officer Conflict of Interest

We the Author and Approving Officer declare we do not have a conflict of interest in relation to this matter.

KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE CONSTRUCTION PACKAGES 1, 2 & 3

SCHEDULE OF DRAWINGS	
PROJECT DRAWINGS - COMMON	
DRAWING No.	DESCRIPTION
R21-2351	SITE PLAN AND SCHEDULE OF DRAWINGS
R21-2354	GENERAL ARRANGEMENT, PACKAGES AND SETTING OUT DETAILS
R21-2361	DRAINAGE - CULVERT DETAILS
PROJECT DRAWINGS - PACKAGE 1	
R21-2352	LEVEE CONSTRUCTION DETAILS - TYPE 1 LEVEE - EARTH EMBANKMENT DETAILS
R21-23522	LEVEE CONSTRUCTION DETAILS - TYPE 1 LEVEE - EXISTING SERVICES CROSSING DETAILS
R21-2355	SOUTHERN LEVEE - PLAN & LONGITUDINAL SECTION - SECTION A - CH 0.00 TO CH 463.00
R21-2357	SOUTHERN LEVEE - PLAN & LONGITUDINAL SECTION - SECTION B - CH 1180.00 TO CH 1800.00
R21-2358	SOUTHERN LEVEE - PLAN & LONGITUDINAL SECTION - SECTION B - CH 1800.00 TO CH 2433.00
R21-2359	SOUTHERN LEVEE - PLAN & LONGITUDINAL SECTION - SECTION C - CH 2678.00 TO CH 3000.00
R21-2360	SOUTHERN LEVEE - PLAN & LONGITUDINAL SECTION - SECTION C - CH 3000.00 TO CH 3075.00
R21-2362	DRAINAGE - CULVERT CROSSING DETAILS - SHEET 1 OF 2
R21-2364	DRAINAGE - CULVERT CROSSING DETAILS - SHEET 2 OF 2
R21-2374	SOUTHERN LEVEE - CROSS SECTIONS - CH 0.000 TO CH 450.000
R21-2376	SOUTHERN LEVEE - CROSS SECTIONS - CH 1200.000 TO CH 1525.000
R21-2377	SOUTHERN LEVEE - CROSS SECTIONS - CH 1550.000 TO CH 1825.000
R21-2378	SOUTHERN LEVEE - CROSS SECTIONS - CH 1850.000 TO CH 2100.000
R21-2379	SOUTHERN LEVEE - CROSS SECTIONS - CH 2125.000 TO CH 2350.000
R21-2380	SOUTHERN LEVEE - CROSS SECTIONS - CH 2375.000 TO CH 2850.000
R21-2381	SOUTHERN LEVEE - CROSS SECTIONS - CH 2875.000 TO CH 3075.000
PROJECT DRAWINGS - PACKAGE 2	
R21-2353	LEVEE CONSTRUCTION DETAILS - TYPE 2 LEVEE - PRECAST CONCRETE WALL - DETAILS
R21-23532	LEVEE CONSTRUCTION DETAILS - TYPE 2 LEVEE - ALTERNATIVE - CAST-IN-SITU CONCRETE WALL - DETAILS
R21-23533	LEVEE CONSTRUCTION DETAILS - TYPE 2 LEVEE - EXISTING SERVICES CROSSING DETAILS
R21-2363	SOUTHERN LEVEE - PLAN & LONGITUDINAL SECTION - CH 600.00 TO CH 1180.00
R21-2375	DRAINAGE - CULVERT CROSSING DETAILS
R21-2375	SOUTHERN LEVEE - CROSS SECTIONS - CH 475.000 TO CH 1175.000
PROJECT DRAWINGS - PACKAGE 3	
R21-2365	ROAD CROSSING - COUNTRY CLUB ACCESS - PLAN AND DETAILS
R21-2366	ROAD CROSSING - MURPHY STREET - PLAN AND DETAILS
R21-2367	ROAD CROSSING - MURRAY STREET - SETTING OUT & GRADING PLAN
R21-2368	ROAD CROSSING - MURRAY STREET - LONGITUDINAL SECTION AND DETAILS
R21-2369	ROAD CROSSING - BICENTENNIAL ROAD - SETTING OUT & GRADING PLAN
R21-2370	ROAD CROSSING - BICENTENNIAL ROAD - LONGITUDINAL SECTION AND DETAILS
R21-2371	ROAD CROSSING - BICENTENNIAL ROAD - CROSS SECTIONS

STANDARD DRAWINGS	
DRAWING No.	DESCRIPTION
CS3100	DRAINAGE - GENERAL DRAINAGE NOTES AND APRON DETAILS
CS3101	DRAINAGE - INSTALLATION, BEDDING AND FILLING/BACKFILLING AGAINST/OVER CULVERTS
CS3102	DRAINAGE - RCP 375mm DIA. TO 675mm DIA. HEADWALL & WINGWALL DETAIL - NARROW CHANNELS
CS3107	DRAINAGE - RCBC 450mm HIGH TO 1200mm HIGH - HEADWALL & WINGWALL DETAILS 0° TO 20° SKEW ANGLE
CS3110	DRAINAGE - RCBC AND LINK SLAB - REINFORCED WING & HEADWALLS
CS3113	DRAINAGE - RCBC AND LINK SLAB - CROWN UNIT HOLDING DOWN ANCHORS
CS3119	MANHOLES AND INLET PITS
CS3123	DRAINAGE - GABION DROP STRUCTURE
CS3300	STANDARD KERB PROFILES
CS3302	TACTILE GROUND SURFACE INDICATOR (TGS) SHEET 1 - KERB RAMP
CS3305	VEHICLE BARRIER FENCING AND HOLDING RAIL DETAILS
CS3307	PEDESTRIAN FENCE
CS3308	1800mm SECURITY FENCE
CS3400	LINE MARKING
CS3401	PAVEMENT MARKINGS - CHEVRONS AND RRP'S SHEET 1
CS3402	PAVEMENT MARKINGS - CHEVRONS AND RRP'S SHEET 2

BASIS FOR DESIGN

LEVEE DESIGN LEVEL - Q20 (5% AEP) + 300mm FREEBOARD AT FSL OF LEVEE

NOTES

- LOCATION OF EXISTING SERVICES IS APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK AND ACCEPT FULL RESPONSIBILITY FOR THE COST OF REPAIRS AND CONSEQUENCES OF ANY DAMAGE WHICH OCCURS TO THESE SERVICES AS A RESULT OF CONSTRUCTION WORKS. WHERE ADDITIONAL SERVICES WHICH ARE NOT SHOWN ON THESE DRAWINGS ARE FOUND, THE CONTRACTOR IS TO NOTIFY THE SUPERINTENDENT AND NOMINATE A PROPOSED METHODOLOGY FOR CONSTRUCTION AROUND THE SERVICE.
- NATURAL GROUND AND VEGETATION OUTSIDE OF THE DESIGNATED WORKS AREAS IS NOT TO BE DISTURBED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE SUPERINTENDENT.
- ALL DISTURBED AREAS NOT SUBJECT TO NEW WORKS SHALL BE REINSTATED AS SPECIFIED TO EXISTING CONDITIONS OR BETTER BY THE CONTRACTOR AT THE COMPLETION OF WORKS.
- THE WORKS ARE TO BE UNDERTAKEN WITH SEDIMENT & EROSION CONTROL MEASURES FOR THE FULL DURATION OF WORKS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATION.

SAFETY IN DESIGN

- CONSTRUCTION ACTIVITY CAN BE HAZARDOUS. POTENTIAL SAFETY HAZARDS CONSIDERED BY THE DESIGNERS TO HAVE A HIGHER RISK THAN NORMAL CONSTRUCTION ACTIVITY ARE IDENTIFIED IN THE SAFETY IN DESIGN ASSESSMENT INCLUDED IN THE PROJECT DESIGN REPORT. IT SHOULD BE NOTED THAT DESIGNERS HAVE A LOWER LEVEL OF UNDERSTANDING OF THE RISKS INVOLVED IN CONSTRUCTION COMPARED TO THAT OF A COMPETENT CONTRACTOR. IT IS THEREFORE ESSENTIAL THAT AN ADEQUATE SAFETY PLAN IS PREPARED BY THE CONTRACTOR FOR THE WORKS. SAFETY PLANS ARE TO BE PREPARED IN COMPLIANCE WITH THE PROJECT SPECIFICATION REQUIREMENTS.
- THE DESIGNERS MAY NOT BE AWARE OF ALL SAFETY RISKS AND HAZARDS INVOLVED IN THIS PROJECT AND THE ABSENCE OF COMMENT DOES NOT IMPLY THAT THERE ARE ONLY LOW LEVEL RISKS OR HAZARDS INVOLVED IN THIS PROJECT. APPROPRIATE WORK METHOD STATEMENTS ARE TO BE PREPARED FOR HIGH RISK ACTIVITY BY THE CONTRACTOR.

WARNING

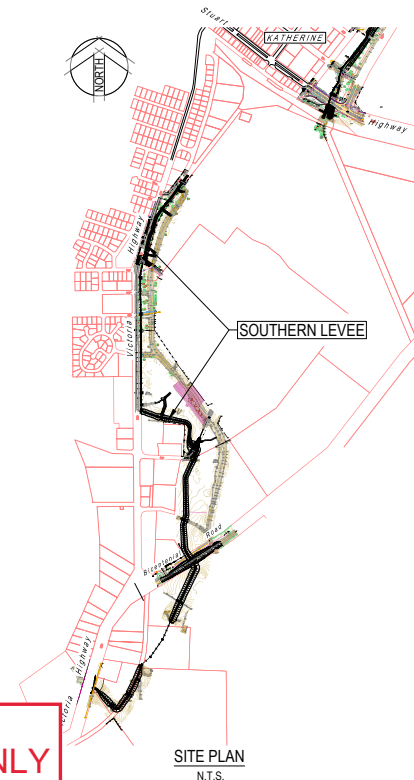
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.
NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.
THE LOCATION AND DEPTH OF ALL SERVICES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.

SURVEY CONTROL				
Station identifier	Easting	Northing	RL	Description
10928-EJA-008	204160.58	8396007.97	103.42	Spike
10928-EJA-009	204273.22	8396968.55	101.29	Spike
10928-EJA-010	204378.15	8396115.26	101.61	Spike
10928-EJA-011	204380.41	8396930.52	101.37	Spike
10928-EJA-012	204691.14	8396747.03	101.71	Spike
10928-EJA-013	204789.28	8397103.97	101.88	Spike
10928-EJA-014	204584.39	8397118.34	102.53	Spike
10928-EJA-015	204722.34	8396966.71	101.81	Spike
10928-EJA-016	204600.36	8396596.31	101.39	Spike
10928-EJA-017	204469.64	8396331.48	104.26	Spike
10928-EJA-018	204745.45	8397290.39	101.18	Spike
10928-EJA-019	204635.89	8397436.50	102.18	Spike
10928-EJA-020	204522.83	8397476.19	101.68	Spike
10928-EJA-021	204478.07	8397635.26	102.22	Spike
S98185244	204174.54	8396066.88	103.14	CRM
S98189009	204387.16	8396491.79	102.68	CRM
S98189245	204285.92	8396446.60	103.33	CRM
S98189209	204678.97	8396703.32	101.33	CRM
S98189169	204371.08	8397802.37	102.44	CRM
S98189173	204354.78	8397607.47	102.57	CRM
S98189188	204360.52	8397263.57	102.81	CRM

SURVEY

ORIGINAL SURVEY UNDERTAKEN BY EARL JAMES & ASSOCIATES (EJA)
JOB No. 10928 (05/12/2018).
ADDITIONAL SURVEY UNDERTAKEN BY EARL JAMES & ASSOCIATES (EJA)
JOB No. 11378 (18/12/2018).
PROJECT DATUM IS MGA 94 ZONE 53, AHD.
CONFIRM ALL SURVEY CONTROL PRIOR TO CONSTRUCTION

REFER DWG R21-2354 FOR SURVEY STATION LOCATIONS



PRELIMINARY DESIGN ONLY
NOT FOR CONSTRUCTION

SITE PLAN
N.T.S.



Stantec Australia Pty Ltd | ABN 17 007 820 322
Level 6, 93 Mitchell Street
Darwin NT 0800
Tel: 08 8942 8200
Web: www.stantec.com.au

Drawn
OR
Date: Aug '21
Designed
OR
Date: Aug '21
Design Project Leader
RP
Date: Aug '21

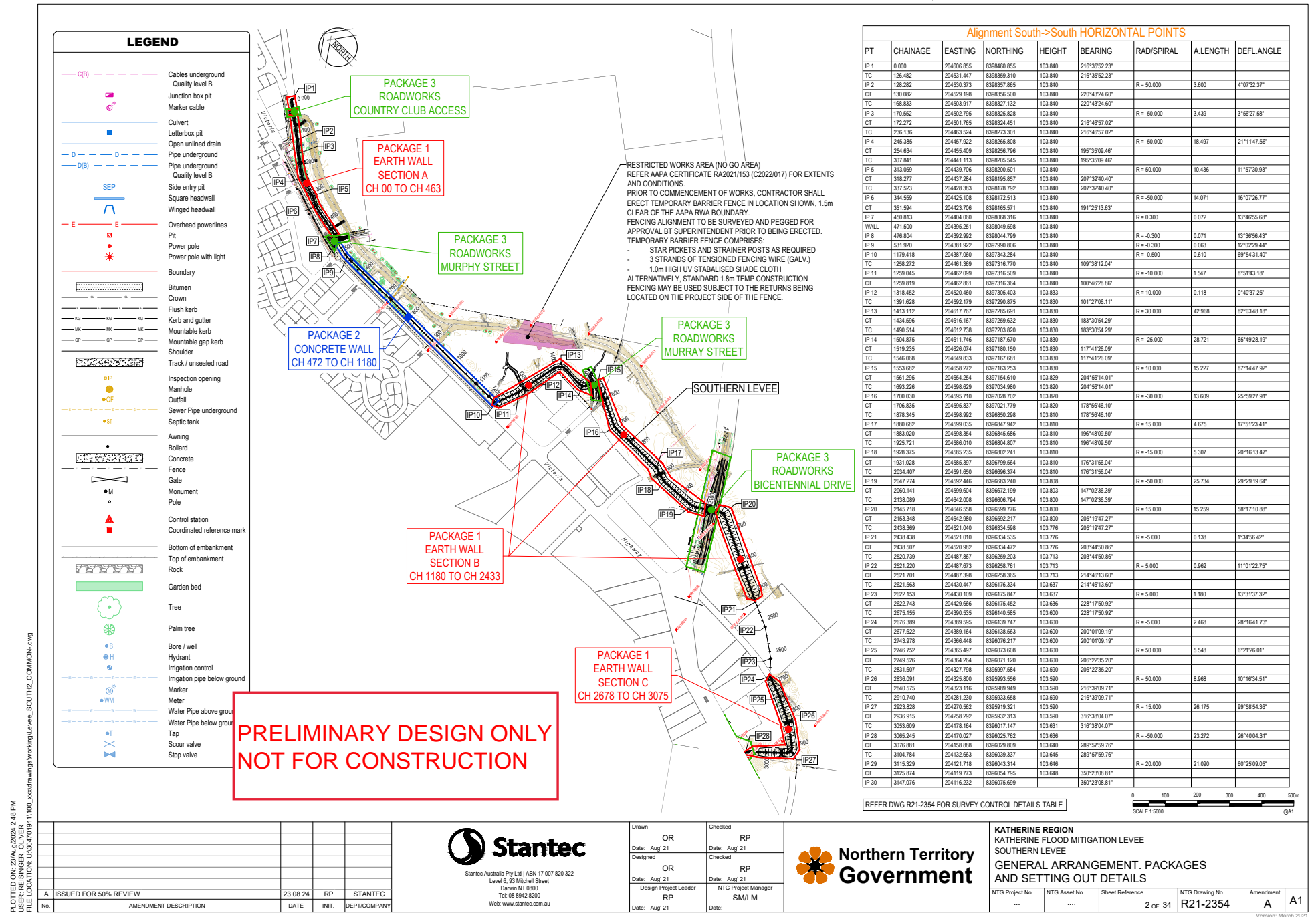
Checked
RP
Date: Aug '21
Checked
RP
Date: Aug '21
NTG Project Manager
SM/LM
Date:

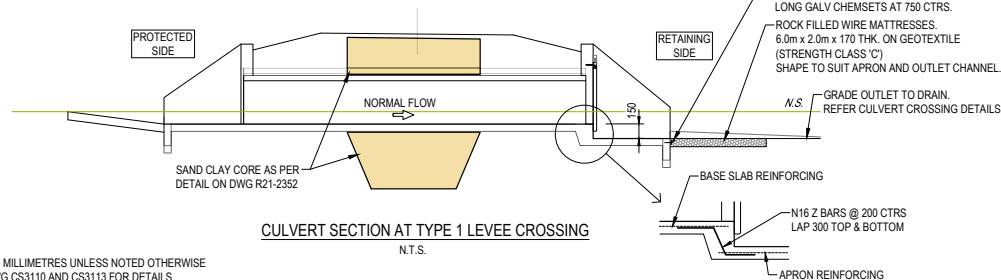
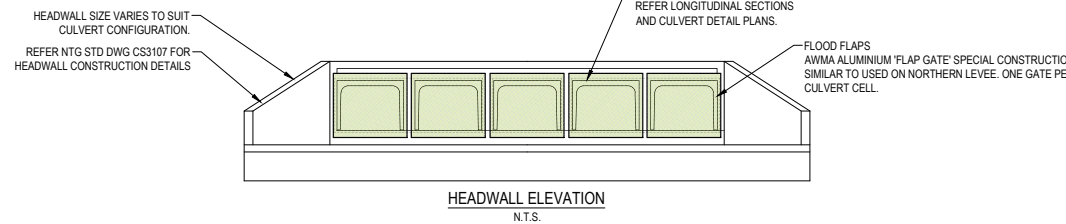
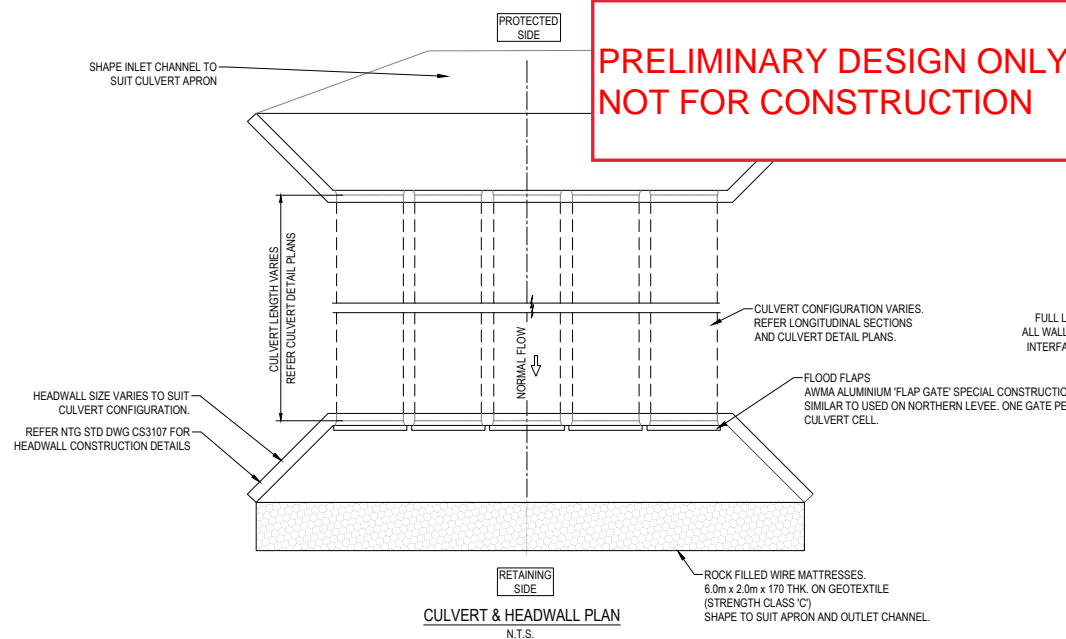


KATHERINE REGION
KATHERINE FLOOD MITIGATION LEVEE
SOUTHERN LEVEE
SITE PLAN AND
SCHEDULE OF DRAWINGS

NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment	
...	....	1 of 34	R21-2351	A	A1

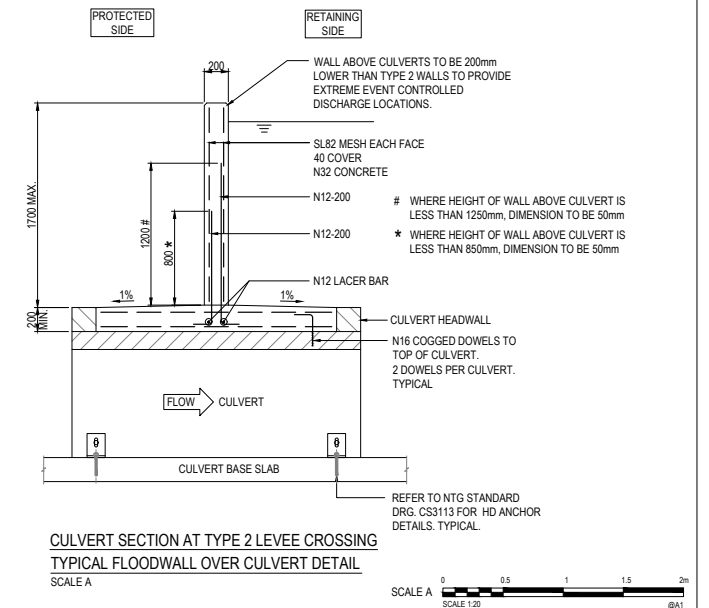
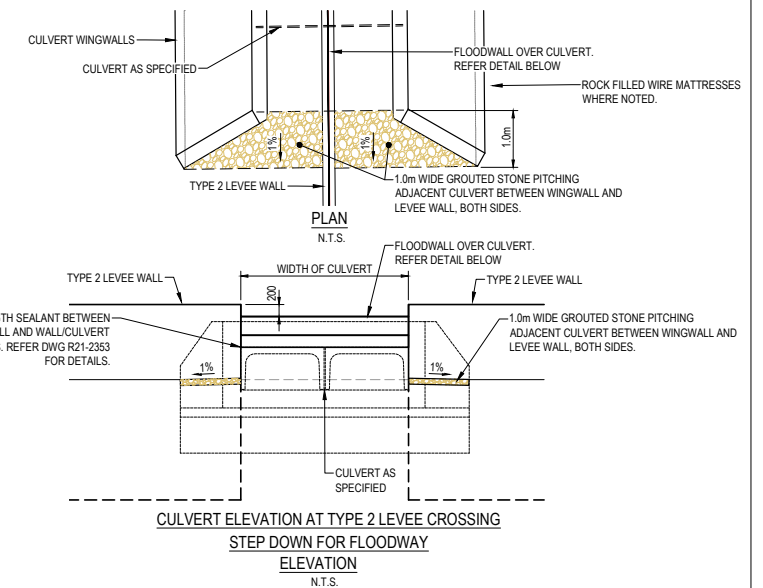
Version: March 2021





NOTES

1. DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. REFER NTG STD DWG CS3110 AND CS3113 FOR DETAILS



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No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY
A	ISSUED FOR 50% REVIEW	23.08.24	RP	STANTEC



Drawn OR Date: Aug '21 Designed	Checked RP Date: Aug '21
OR Date: Aug '21 Design Project Leader RP	Checked RP Date: Aug '21 NTG Project Manager SM/LM
Date: Aug '21	Date:



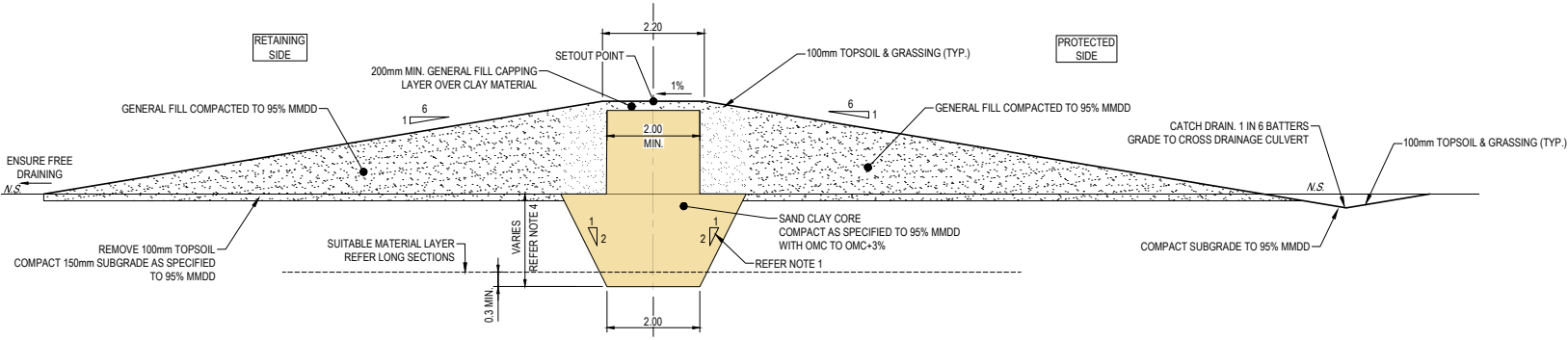
KATHERINE REGION
KATHERINE FLOOD MITIGATION LEVEE
SOUTHERN LEVEE
DRAINAGE
CULVERT DETAILS

NTG Project No. ...	NTG Asset No.	Sheet Reference 3 of 34	NTG Drawing No. R21-2361	Amendment A A	A1
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Version: March 2021

PACKAGE 1
EARTH WALL
SECTION A - CH 00 TO CH 463
SECTION B - CH 1180 TO CH 2433
SECTION C - CH 2678 TO CH 3075

PRELIMINARY DESIGN ONLY
NOT FOR CONSTRUCTION





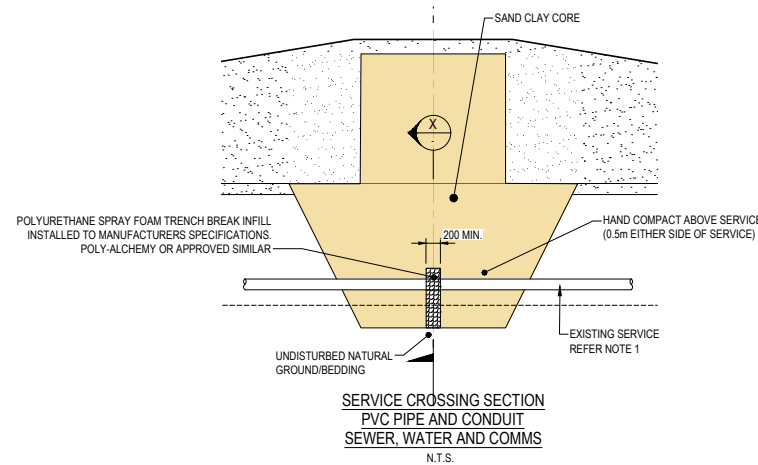
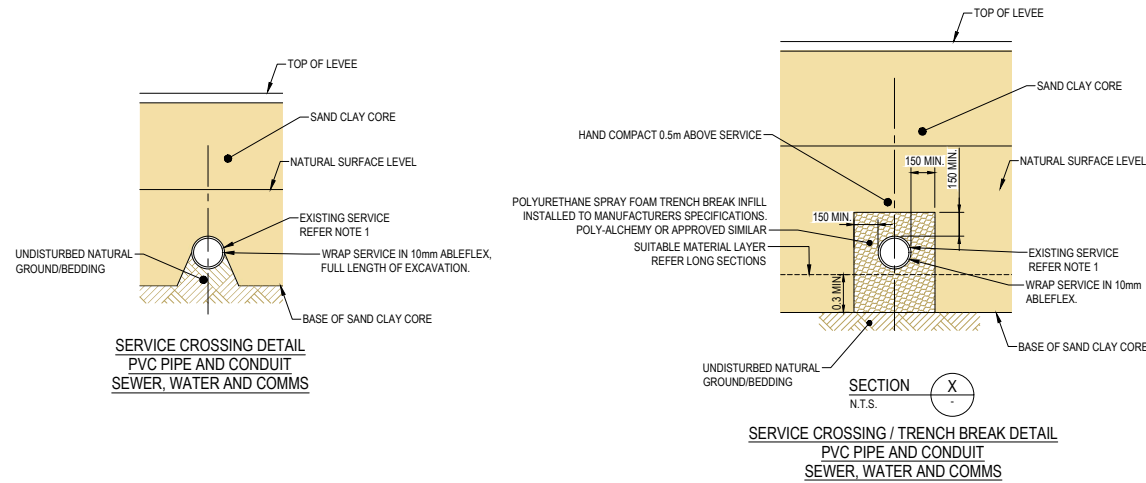
- NOTES
- 1. ALL EXCAVATION TO BE IN ACCORDANCE WITH 'EARTHWORKS' SECTION OF THE PROJECT SPECIFICATION.
 - 2. A SUITABLY QUALIFIED AND EXPERIENCED GEOTECHNICAL PROFESSIONAL IS REQUIRED TO BE ON SITE DURING THE CONSTRUCTION OF THE LEVEE INCLUDING DURING EXCAVATION.
 - 3. SAND CLAY CORE MINIMUM THICKNESS IS 2.0m. INDICATIVE SLOPES OF 1H:2V HAVE BEEN SHOWN. CONTRACTOR IS TO ENGAGE A SUITABLY QUALIFIED AND EXPERIENCED GEOTECHNICAL PROFESSIONAL TO ASSESS TEMPORARY SLOPE STABILITY OF CONSTRUCTING CORE TRENCH AND ASSESS APPROPRIATE SIDE SLOPES. SLOPE TO BE ADJUSTED TO MAINTAIN THE MINIMUM TOP AND BASE WIDTH OF THE SAND CLAY CORE OF 2.0m. IF ASSESSED AS ACHIEVABLE, VERTICAL TRENCH SIDES MAY BE USED.
 - 4. CORE TRENCH REQUIRED TO HAVE A MINIMUM PENETRATION 0.3m INTO RESIDUAL SANDY CLAY MATERIAL. MAXIMUM TRENCH DEPTH TO BE 2.0m. A SUITABLY QUALIFIED AND EXPERIENCED GEOTECHNICAL PROFESSIONAL IS TO BE PRESENT DURING EXCAVATION AND FILLING TO VERIFY.
 - 5. DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - 6. REFER TO THE PROJECT SPECIFICATION FOR DETAIL OF MATERIALS.
 - 7. ALL BATTERS TO HAVE 100mm TOPSOIL AND GRASSING.
 - 8. ADDITIONAL REQUIREMENTS OF THE PROJECT SPECIFICATION ARE TO BE FOLLOWED WHERE BEDROCK/LIMESTONE IS ENCOUNTERED SHALLOWER THAN 2.0m. EXCAVATION INTO BEDROCK IS NOT PERMITTED.
 - 9. CROSSING OF EXISTING SERVICES DETAIL ONLY APPLICABLE WHERE THE SERVICE IS WITHIN THE LEVEE FOOTPRINT.

PRELIMINARY DESIGN ONLY
NOT FOR CONSTRUCTION



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USER: REISINGER, OLIVER
FILE LOCATION: U:\0307019\11100_000\drawing\working\Levee_SOUTH2_COMMON.dwg

				 Stantec Australia Pty Ltd | ABN 17 007 820 322 Level 6, 93 Mitchell Street Darwin NT 0800 Tel: 08 8942 8200 Web: www.stantec.com.au	Drawn OR Date: Aug '21	Checked RP Date: Aug '21	 Northern Territory Government	KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 1 LEVEE CONSTRUCTION DETAILS - TYPE 1 LEVEE EARTH EMBANKMENT DETAILS				
					Designed OR Date: Aug '21	Checked RP Date: Aug '21						
					Design Project Leader RP Date: Aug '21	NTG Project Manager SM/LM Date: Aug '21						
A	ISSUED FOR 50% REVIEW	23.08.24	RP	STANTEC								
No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY								



NOTES

1. POTHOLE EXISTING SERVICE IN WALL CROSSING LOCATION PRIOR TO CONSTRUCTION AND CONFIRM PIPE SIZE, TYPE & LEVEL FOR WALL CLEARANCE REQUIREMENTS. HAND EXCAVATE WITHIN 500mm OF EXISTING SERVICE. RETAINING UNDISTURBED TRENCH WALLS. POUR CONCRETE OR SPRAY FOAM AGAINST UNDISTURBED TRENCH WALLS.
2. IF EXISTING SERVICE IS LOCATED BELOW BOTTOM OF SAND CLAY CORE, PROTECT DURING CONSTRUCTION AND HAND COMPACT ABOVE SERVICE TO A HEIGHT OF 1.0m ABOVE SERVICE.

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No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY
A	ISSUED FOR 50% REVIEW	23.08.24	RP	STANTEC

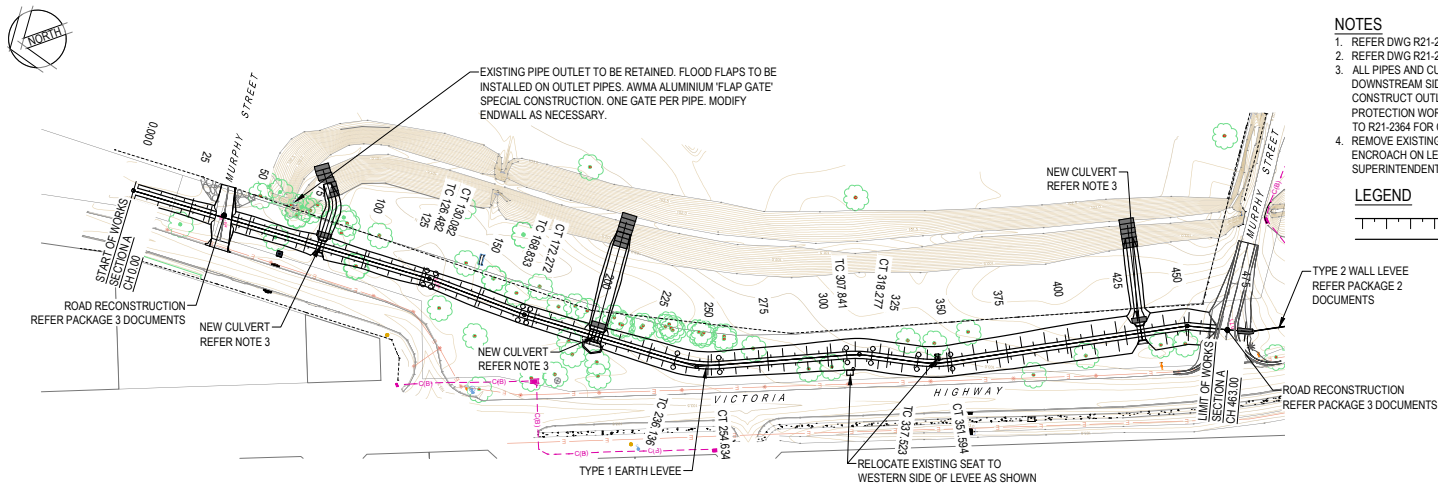


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Date:	Aug '21	Date:	Aug '21
Designed	OR	Checked	RP
Date:	Aug '21	Date:	Aug '21
Design Project Leader	RP	NTG Project Manager	SM/LM
Date:	Aug '21	Date:	



KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 1 LEVEE CONSTRUCTION DETAILS - TYPE 1 LEVEE EXISTING SERVICES CROSSING DETAILS				
NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment
...	....	5 of 34	R21-23522	A
				A1

Version: March 2021



NOTES

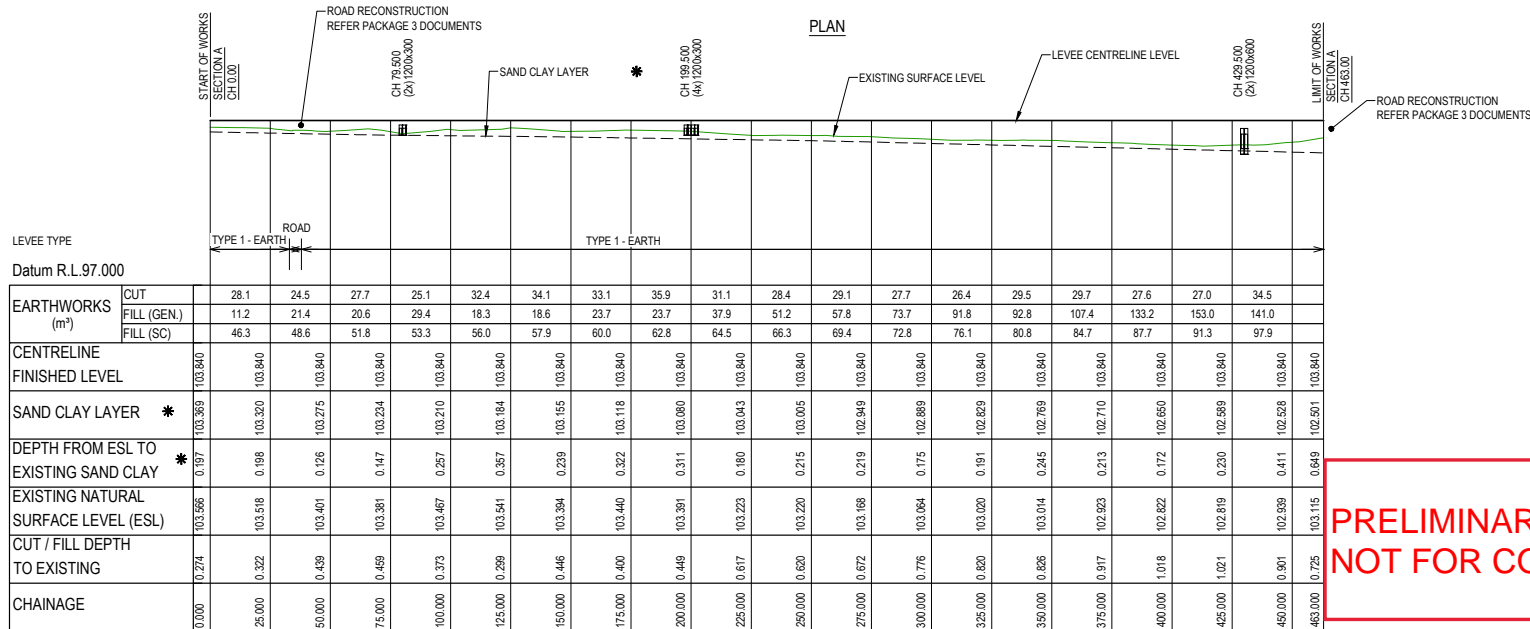
1. REFER DWG R21-2352 & R21-2353 FOR EARTH / WALL TYPE DETAILS.
2. REFER DWG R21-2354 FOR LEVEE SETOUT.
3. ALL PIPES AND CULVERTS TO INCORPORATE FLOOD FLAPS ON DOWNSTREAM SIDE. EXCAVATE TO CULVERT INLET AND CONSTRUCT OUTLET CHANNEL TO EXISTING OPEN DRAIN. PROTECTION WORKS TO INLET AND OUTLET. REFER DWG'S R21-2361 TO R21-2364 FOR CULVERT AND OUTLET CHANNEL DETAILS.
4. REMOVE EXISTING TREES, INCLUDING ROOT SYSTEM, THAT ENCRONCH ON LEVEE FOOTPRINT. CONFIRM TREE REMOVAL WITH SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.

LEGEND

TOP OF EMBANKMENT
BOTTOM OF EMBANKMENT

TYPE 2 WALL LEVEE
REFER PACKAGE 2
DOCUMENTS

ROAD RECONSTRUCTION
REFER PACKAGE 3 DOCUMENTS



LEVEE TYPE

Datum R.L.97.000

EARTHWORKS (m³)	CUT	FILL (GEN.)	FILL (SC)																
CENTRELINE FINISHED LEVEL	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840	103.840
	103.369	103.320	103.275	103.234	103.210	103.184	103.155	103.118	103.080	103.043	103.005	102.949	102.889	102.829	102.769	102.710	102.650	102.589	102.511
SAND CLAY LAYER *	0.197	0.198	0.126	0.147	0.257	0.357	0.239	0.322	0.311	0.180	0.215	0.219	0.175	0.191	0.245	0.213	0.172	0.230	0.411
	103.566	103.518	103.401	103.381	103.457	103.541	103.394	103.440	103.391	103.223	103.220	103.168	103.064	103.020	103.014	102.923	102.822	102.819	102.939
CUT / FILL DEPTH TO EXISTING	0.274	0.322	0.439	0.459	0.373	0.299	0.446	0.400	0.449	0.617	0.620	0.672	0.776	0.820	0.826	0.917	1.018	1.021	0.725
	0.000	25.000	50.000	75.000	100.000	125.000	150.000	175.000	200.000	225.000	250.000	275.000	300.000	325.000	350.000	375.000	400.000	425.000	463.000

GEN - GENERAL FILL
SC - SAND CLAY



* LEVEL OF MATERIAL DEEMED SUITABLE AS TO NOT NEED REPLACING.
LEVEL EXTRAPOLATED FROM BOREHOLE TESTING ALONG THE LEVEE ALIGNMENT

LONGITUDINAL SECTION - SECTION A

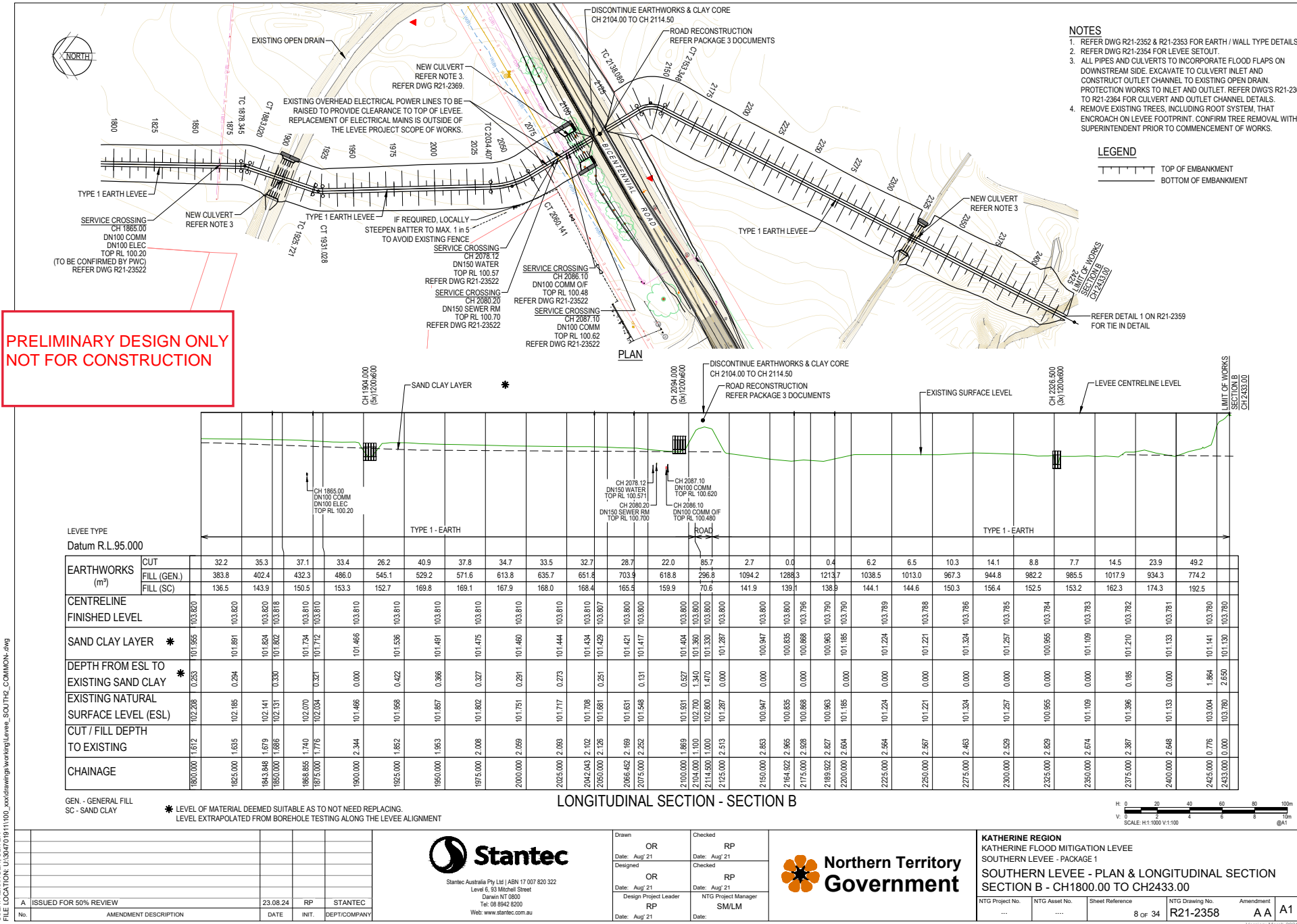
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					 <div>Stantec</div> <div>Stantec Australia Pty Ltd ABN 17 007 820 322 Level 6, 93 Mitchell Street Darwin NT 0800 Tel: 08 8942 8200 Web: www.stantec.com.au</div>	Drawn OR Date: Aug '21 Designed RP	Checked RP Date: Aug '21 Checked RP	 <div>Northern Territory Government</div>	<div>KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 1 SOUTHERN LEVEE - PLAN & LONGITUDINAL SECTION SECTION A - CH 0.00 TO CH 463.00</div>					NTG Project No.		NTG Asset No.		Sheet Reference 6 OF 34		NTG Drawing No. R21-2355		Amendment AA		A1	
A ISSUED FOR 50% REVIEW 23.08.24 RP STANTEC							Design Project Leader RP Date: Aug '21		NTG Project Manager SM/LM Date: Aug '21																





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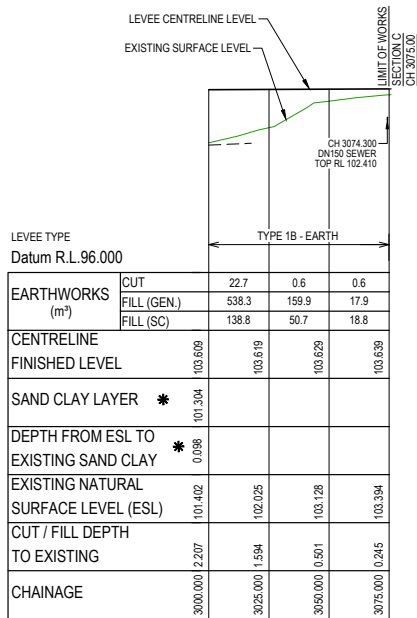
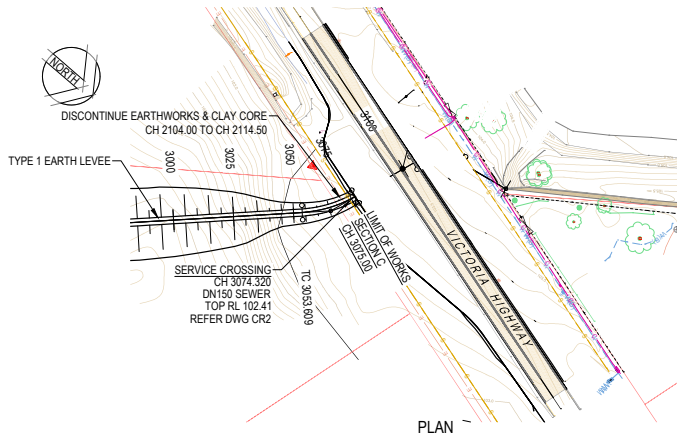
GEN. - GENERAL FILL
SC - SAND CLAY

* LEVEL OF MATERIAL DEEMED SUITABLE AS TO NOT NEED REPLACING.
LEVEL EXTRAPOLATED FROM BOREHOLE TESTING ALONG THE LEVEE ALIGNMENT

H: 0 20 40 60 80 100m
V: 0 2 4 6 8 10m
SCALE: H:1:1000 V:1:100 @A1

Version: March 2021

- NOTES
- 1. REFER DWG R21-2352 & R21-2353 FOR EARTH / WALL TYPE DETAILS.
 - 2. REFER DWG R21-2354 FOR LEVEE SETOUT.
 - 3. ALL PIPES AND CULVERTS TO INCORPORATE FLOOD FLAPS ON DOWNSTREAM SIDE. EXCAVATE TO CULVERT INLET AND CONSTRUCT OUTLET CHANNEL TO EXISTING OPEN DRAIN. PROTECTION WORKS TO INLET AND OUTLET. REFER DWG'S R21-2361 TO R21-2364 FOR CULVERT AND OUTLET CHANNEL DETAILS.
 - 4. REMOVE EXISTING TREES, INCLUDING ROOT SYSTEM, THAT ENCRATCH ON LEVEE FOOTPRINT. CONFIRM TREE REMOVAL WITH SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.

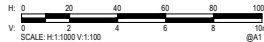


LONGITUDINAL SECTION - SECTION C

GEN. - GENERAL FILL
SC - SAND CLAY

* LEVEL OF MATERIAL DEEMED SUITABLE AS TO NOT NEED REPLACING.
LEVEL EXTRAPOLATED FROM BOREHOLE TESTING ALONG THE LEVEE ALIGNMENT

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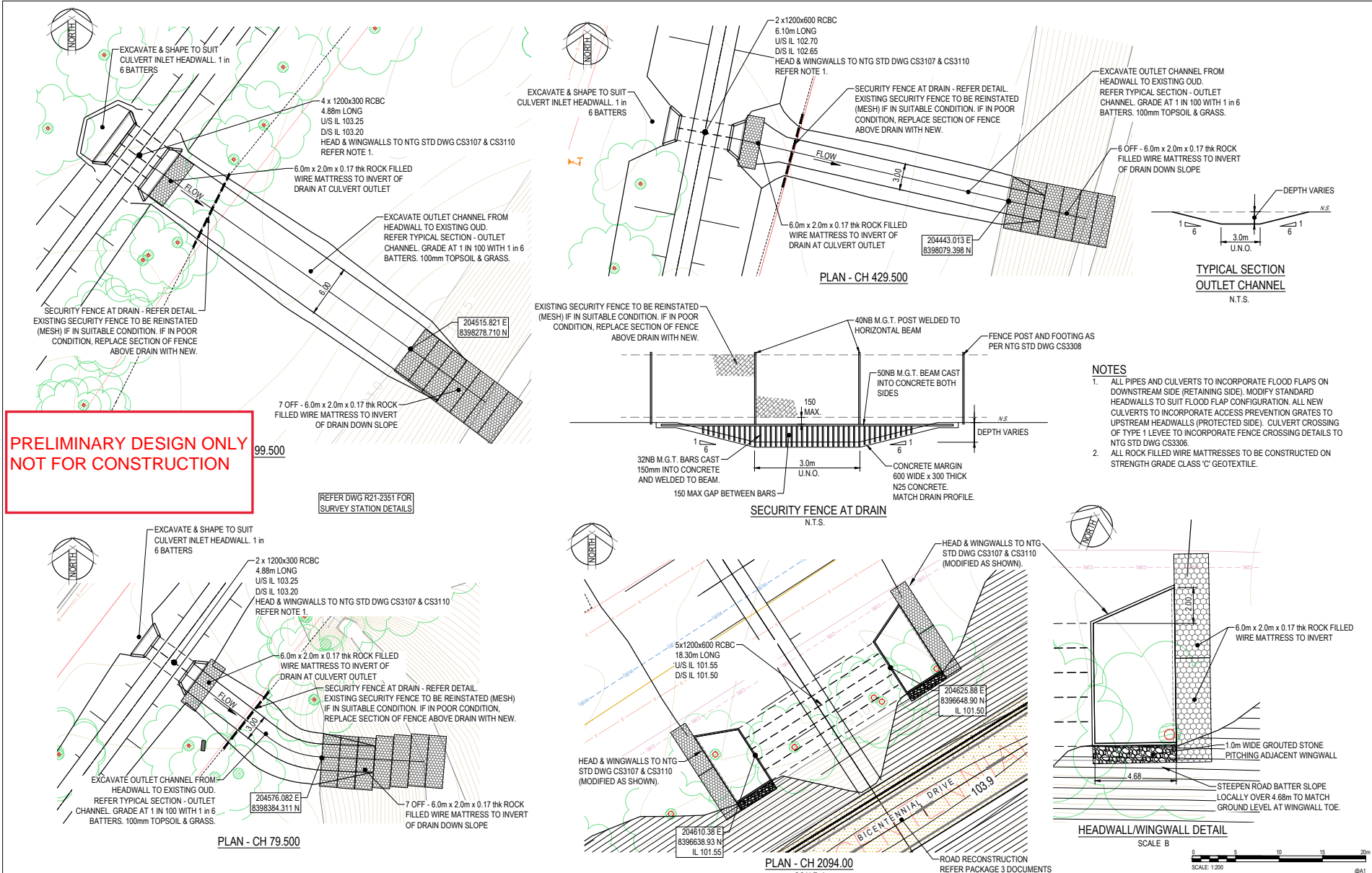
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No.	AMENDMENT DESCRIPTION				DATE	INIT.	DEPT/COMPANY



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Designed	OR	Checked	RP
Date:	Aug '21	Date:	Aug '21
Design Project Leader	RP	NTG Project Manager	SM/LM
Date:	Aug '21	Date:	



KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 1 SOUTHERN LEVEE - PLAN & LONGITUDINAL SECTION SECTION C - CH3000.00 TO CH3075.00			
NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.
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Amendment		A A	
Version: March 2021		A1	



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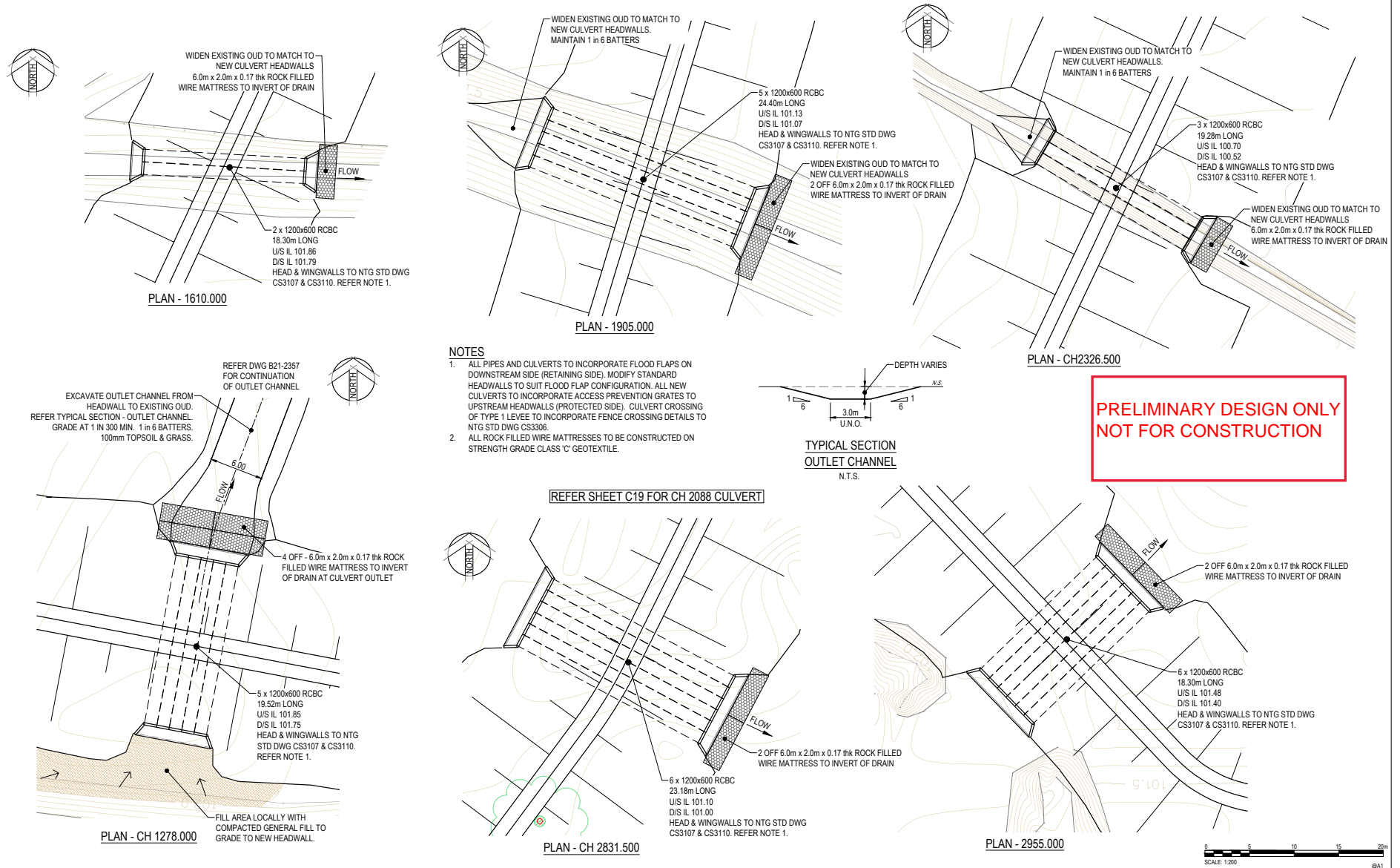
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A	ISSUED FOR 50% REVIEW	23.08.24	RP	STANTEC



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Design Project Leader	RP	NTG Project Manager	SM/LM
Date: Aug '21		Date:	



KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 1 DRAINAGE - CULVERT CROSSING DETAILS SHEET 1 OF 2				
NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment
...	11 of 34	R21-2362	A
Version: March 2021				



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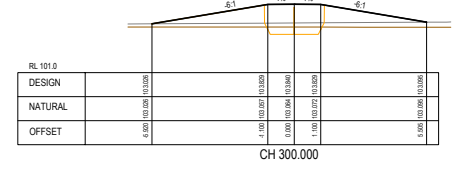
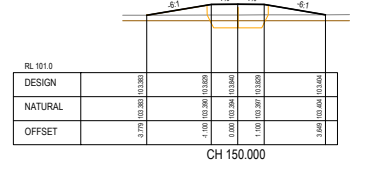
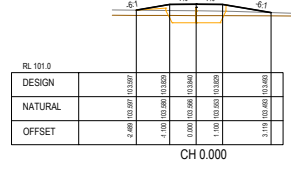
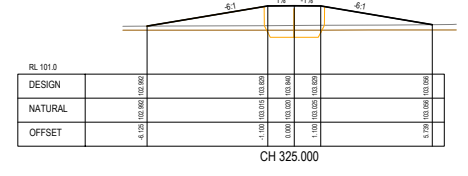
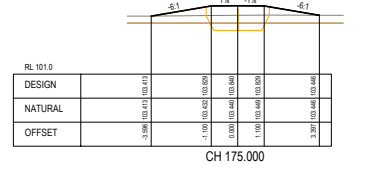
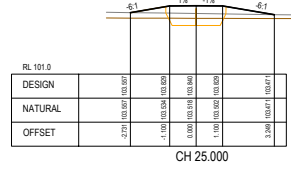
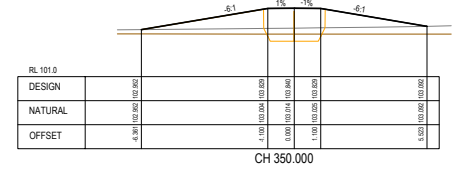
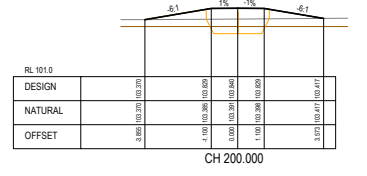
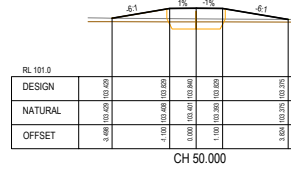
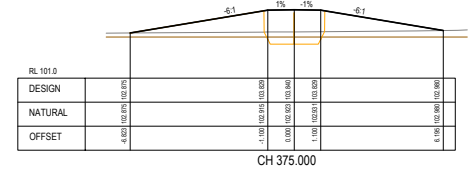
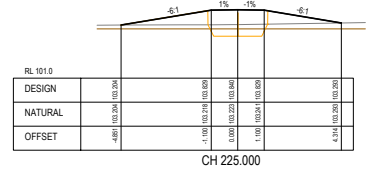
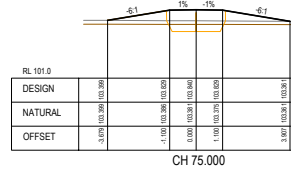
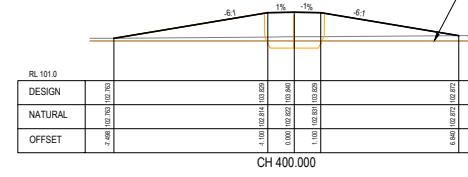
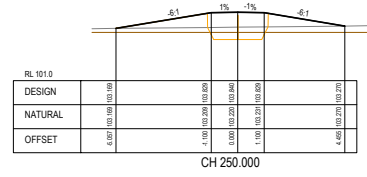
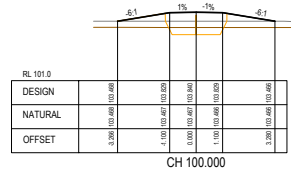
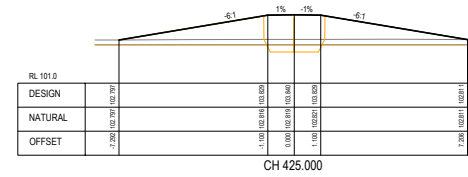
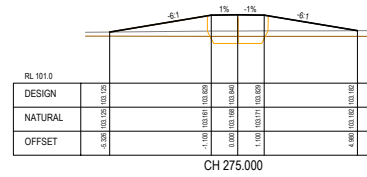
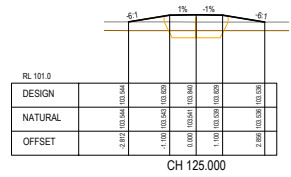
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A	ISSUED FOR 50% REVIEW	23.08.24	RP	STANTEC



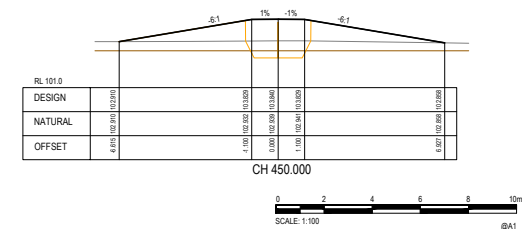
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Design Project Leader	RP	NTG Project Manager	SM/LM
Date:	Aug '21	Date:	



KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 1 DRAINAGE - CULVERT CROSSING DETAILS SHEET 2 OF 2				
NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment
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				A1



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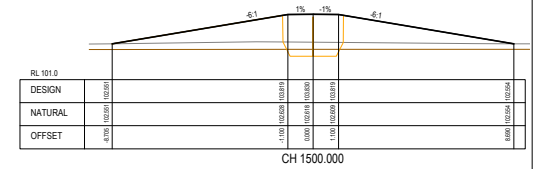
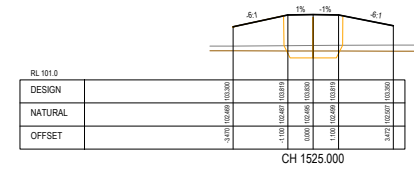
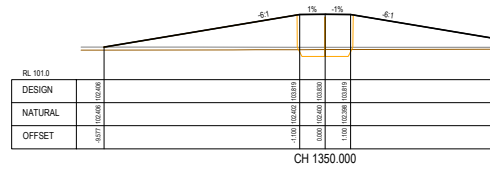
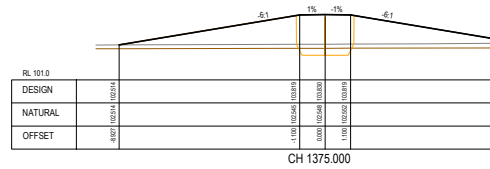
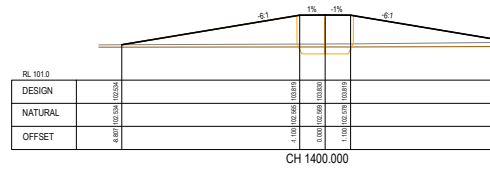
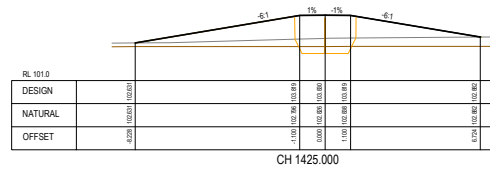
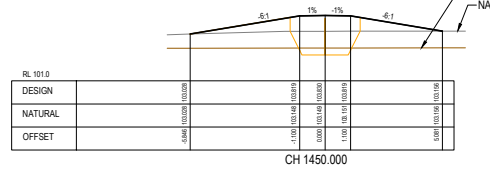
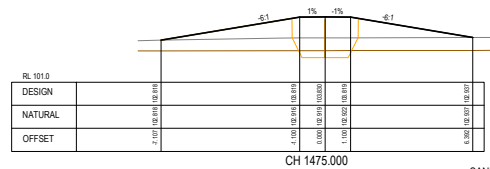
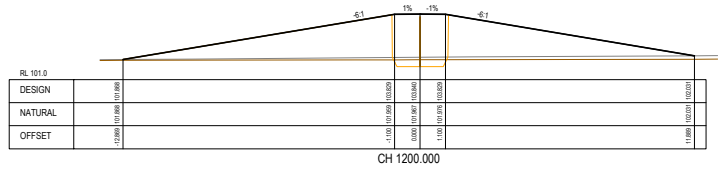
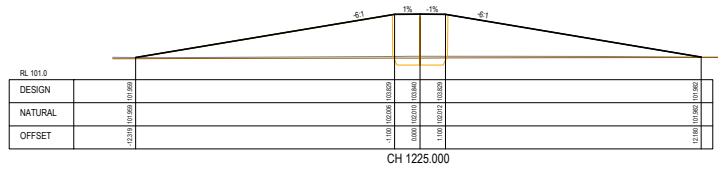
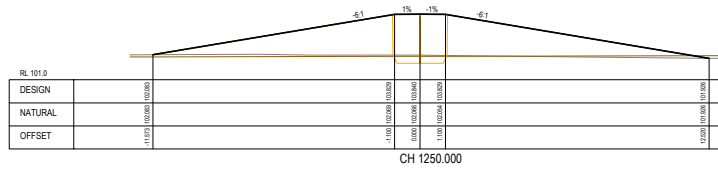
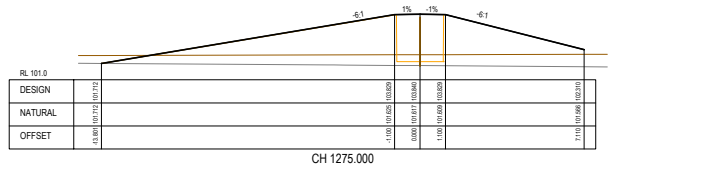
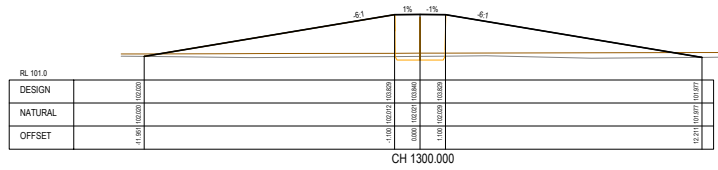
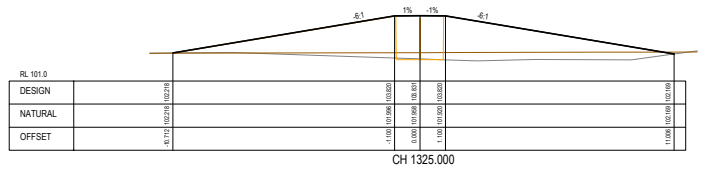
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Design Project Leader RP Date: Aug '21	NTG Project Manager SM/LM Date: Aug '21



KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 1 SOUTHERN LEVEE - CROSS SECTIONS CH0.000 TO CH450.000					
NTG Project No. ---	NTG Asset No. ---	Sheet Reference 13 of 34	NTG Drawing No. R21-2374	Amendment A	A1



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No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY



Stantec Australia Pty Ltd | ABN 17 007 820 322
Level 6, 93 Mitchell Street
Darwin NT 0800
Tel: 08 8942 8200
Web: www.stantec.com.au

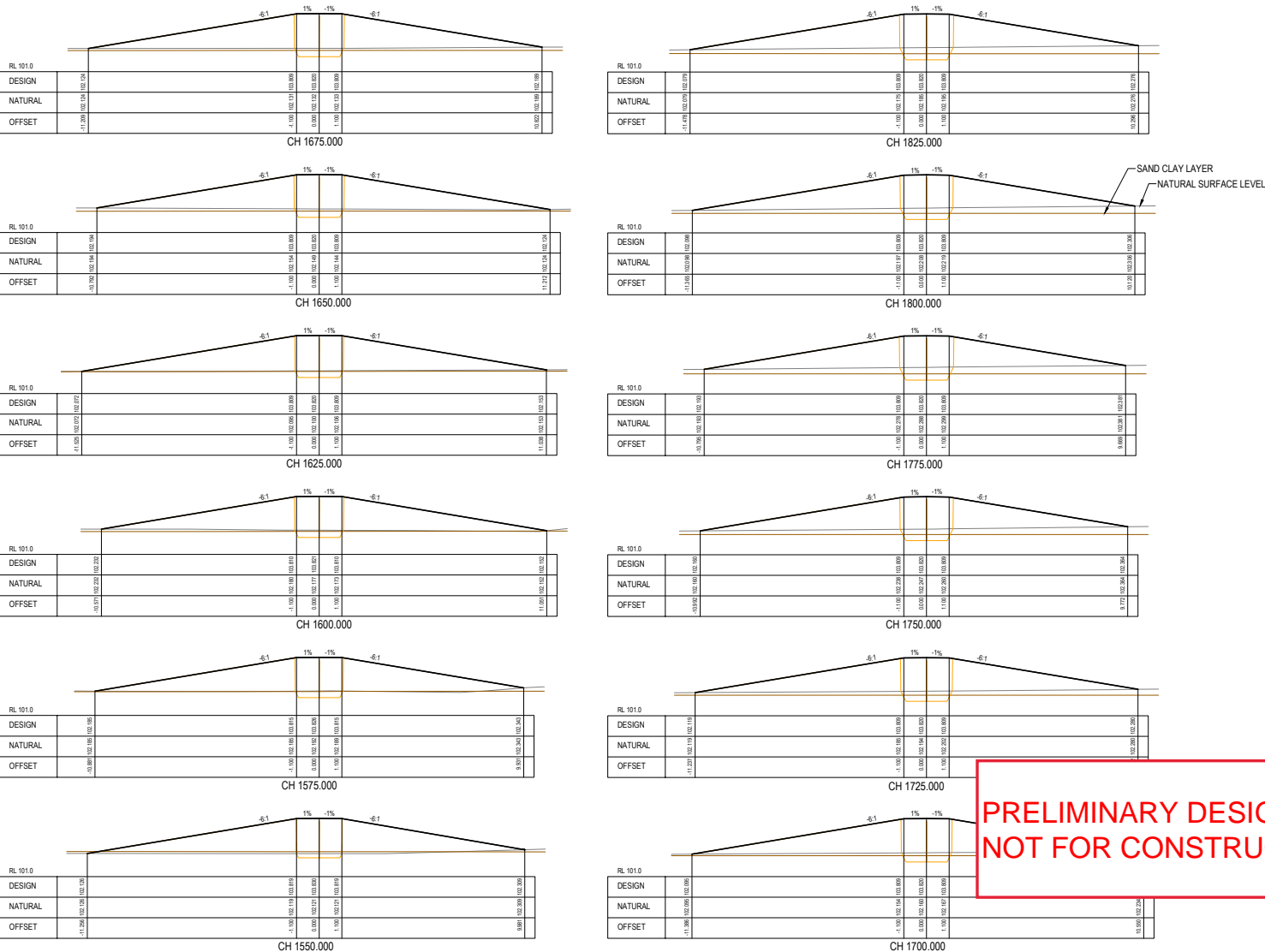
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 Northern Territory
Government

KATHERINE REGION
KATHERINE FLOOD MITIGATION LEVEE
SOUTHERN LEVEE - PACKAGE 1
SOUTHERN LEVEE - CROSS SECTIONS
CH1200.000 TO CH1525.000

NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment	
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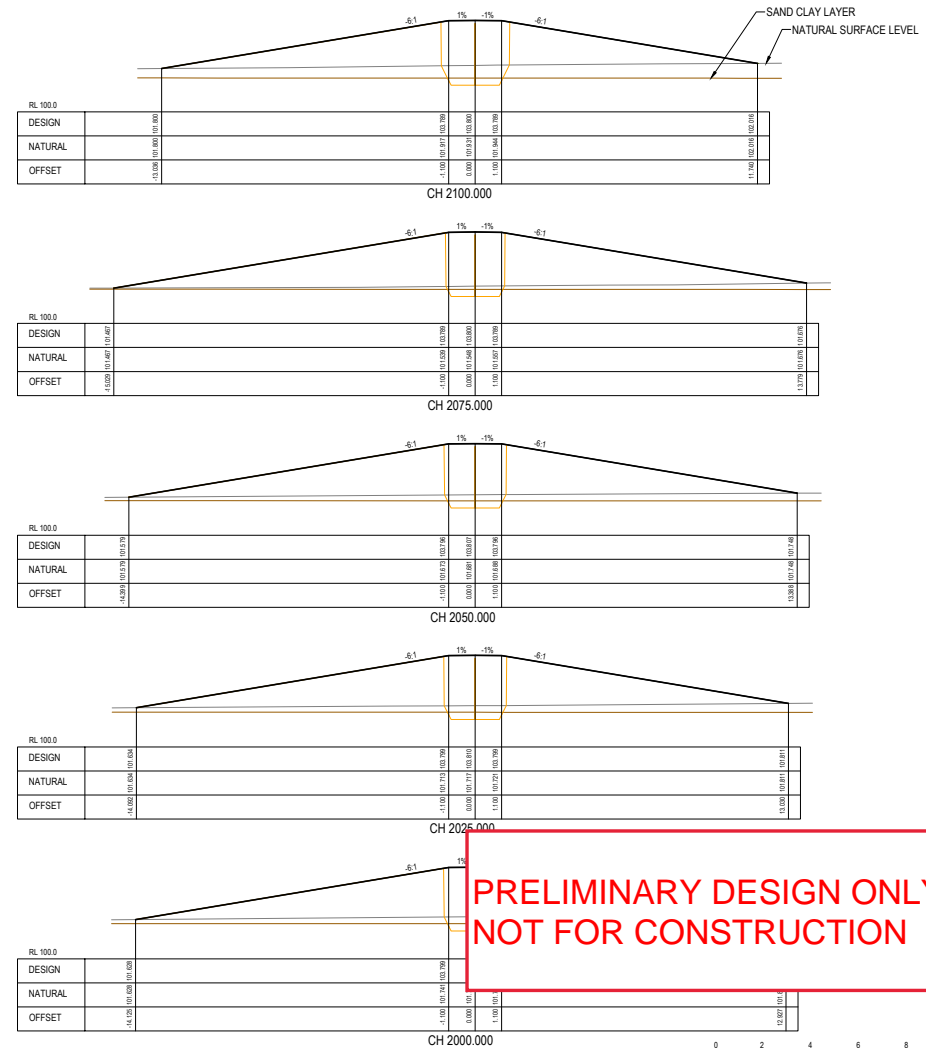
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KATHERINE REGION
KATHERINE FLOOD MITIGATION LEVEE
SOUTHERN LEVEE - PACKAGE 1
SOUTHERN LEVEE - CROSS SECTIONS
CH1550.000 TO CH1825.000

NTG Project No. ---	NTG Asset No. ----	Sheet Reference 15 of 34	NTG Drawing No. R21-2377	Amendment AA	A1
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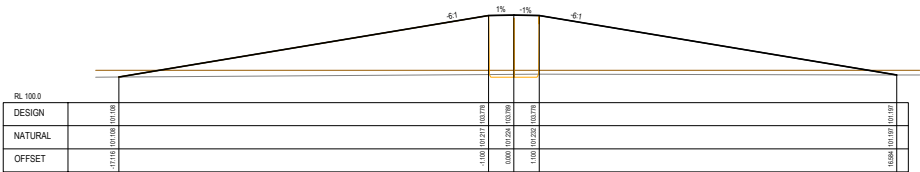
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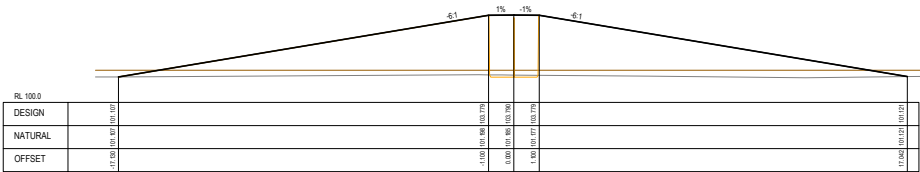
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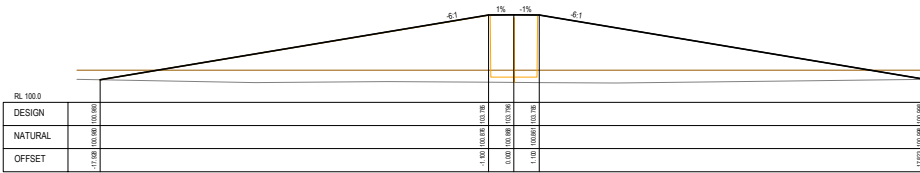
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...	16 OF 34	R21-2378	AA	A1



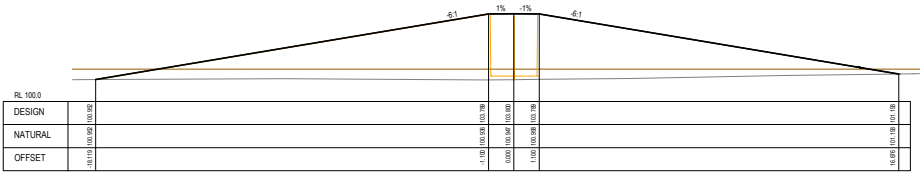
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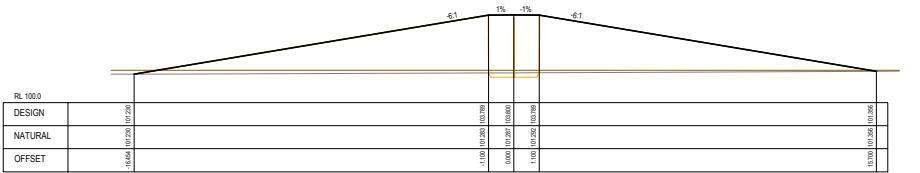
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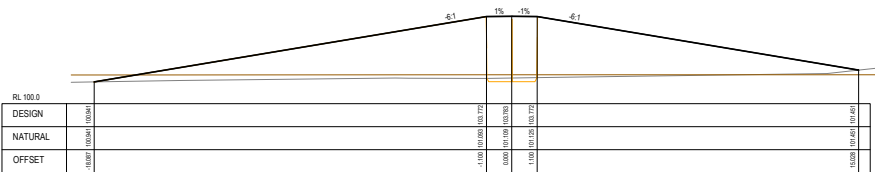
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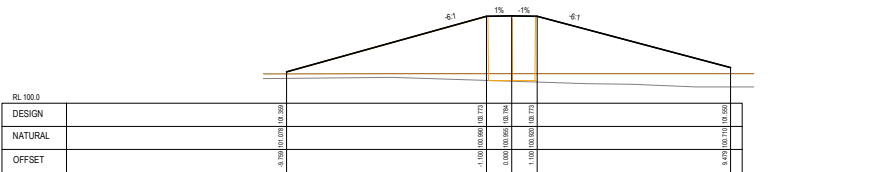
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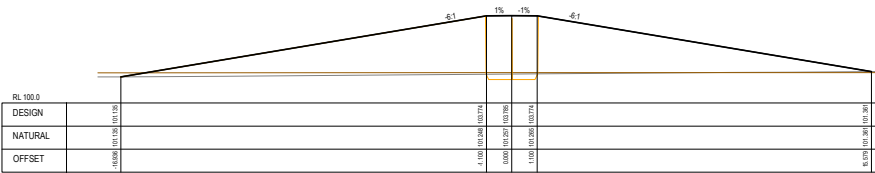
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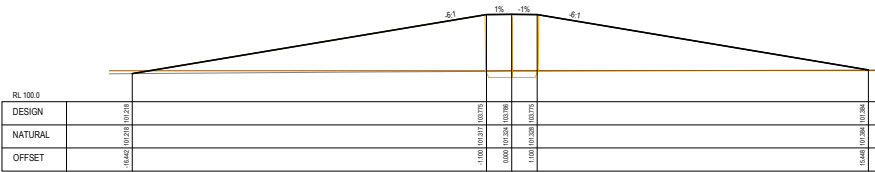
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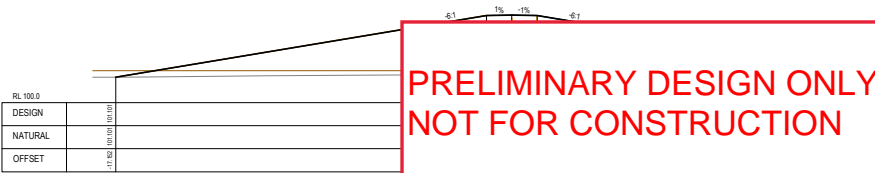
CH 2325.000



CH 2300.000



CH 2275.000



CH 2250.000

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No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY
A	ISSUED FOR 50% REVIEW	23.08.24	RP	STANTEC

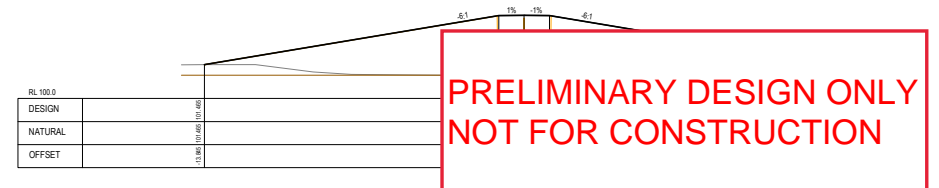
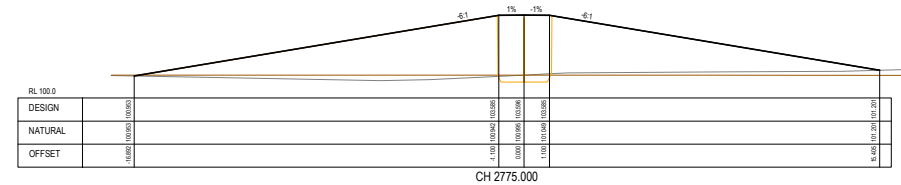
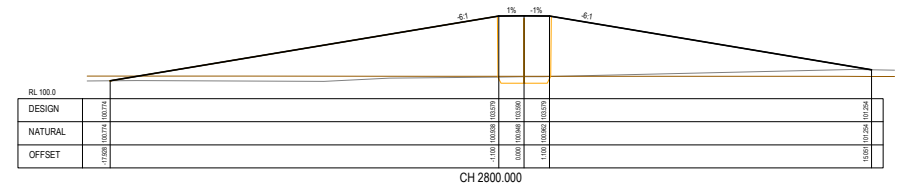
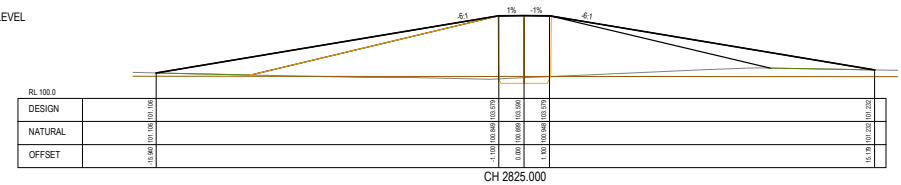
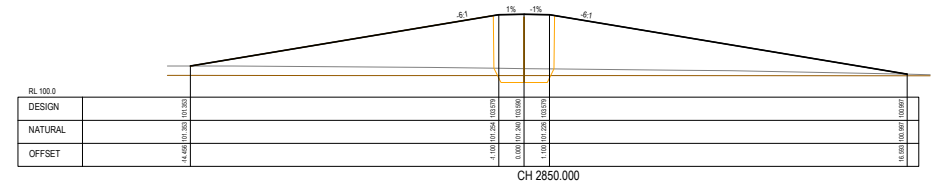
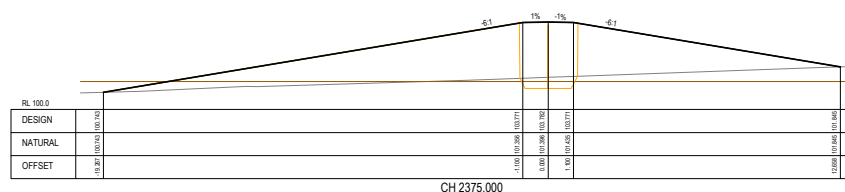
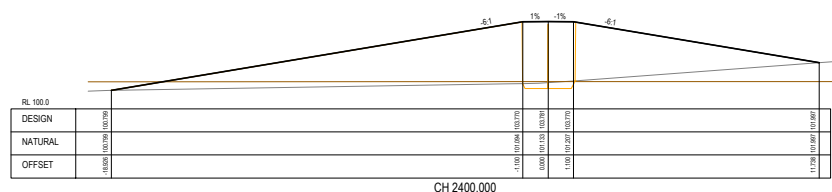
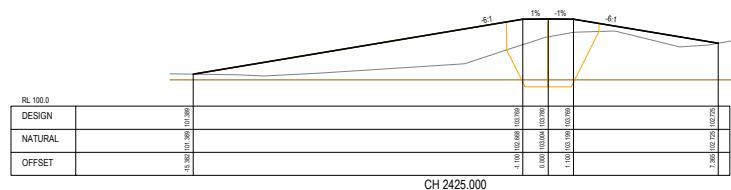
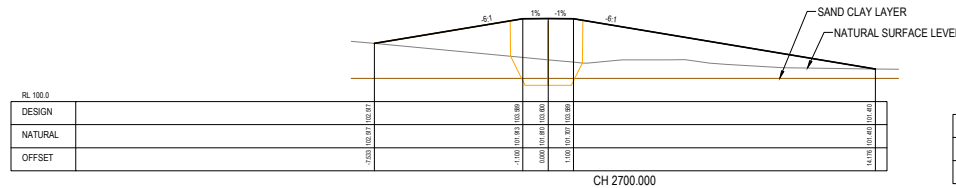
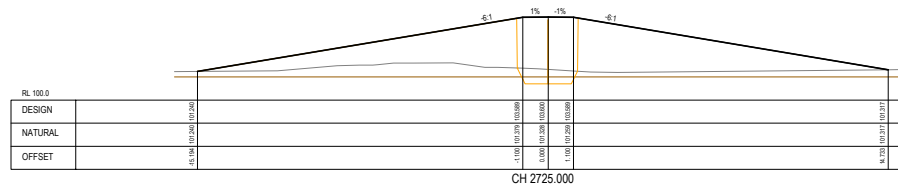


Drawn OR Date: Aug 21 Designed	Checked RP Date: Aug 21 Checked
OR Date: Aug 21 Design Project Leader RP	NTG Project Manager SM/LM Date: Aug 21





KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 1 SOUTHERN LEVEE - CROSS SECTIONS CH2125.000 TO CH2350.000				
NTG Project No. ...	NTG Asset No.	Sheet Reference 17 of 34	NTG Drawing No. R21-2379	Amendment A
				A1

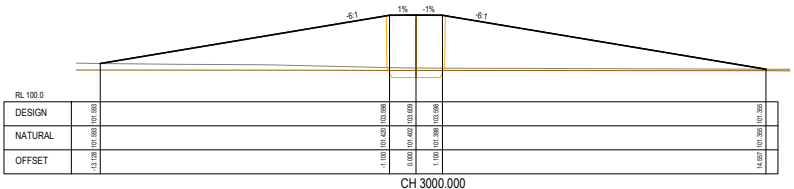
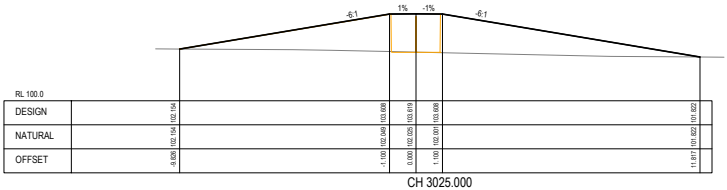
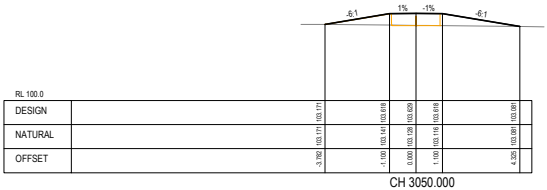
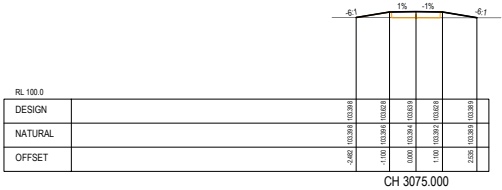
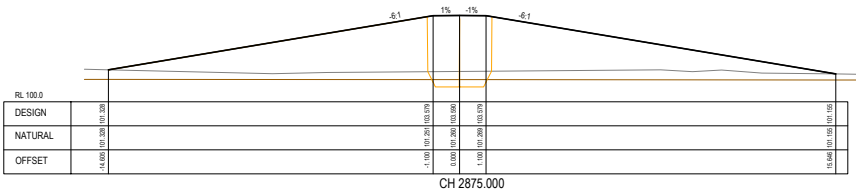
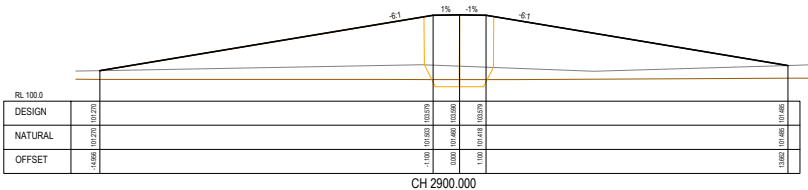
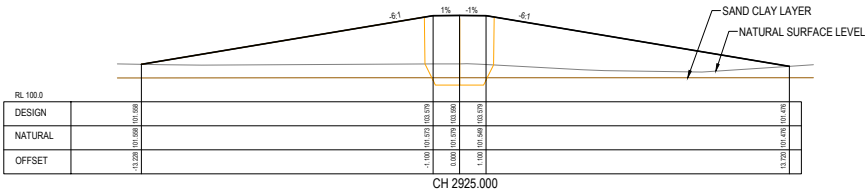
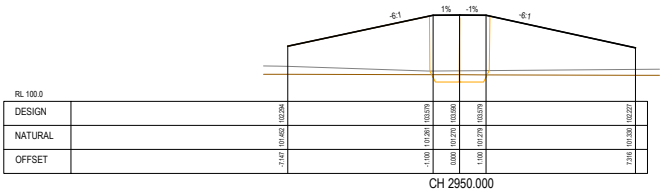
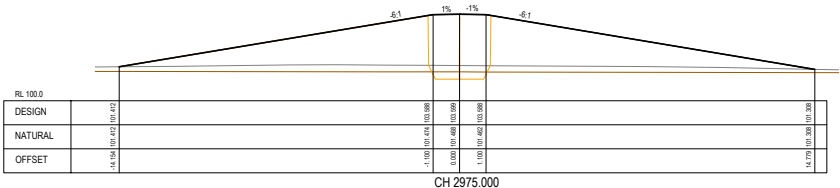
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 <p>Stantec Australia Pty Ltd ABN 17 007 820 322 Level 6, 93 Mitchell Street Darwin NT 0800 Tel: 08 8942 8200 Web: www.stantec.com.au</p>				 <p>Northern Territory Government</p>		<p>KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 1 SOUTHERN LEVEE - CROSS SECTIONS CH2375.000 TO CH2850.000</p>			
<p>Drawn OR Date: Aug 21 Designed</p> <p>OR Date: Aug 21 Design Project Leader RP</p> <p>Checked RP Date: Aug 21</p> <p>RP Date: Aug 21 NTG Project Manager SM/LM</p>				<p>NTG Project No. ...</p> <p>NTG Asset No.</p> <p>Sheet Reference 18 of 34</p> <p>NTG Drawing No. R21-2380</p> <p>Amendment AA</p> <p>A1</p>		<p>Version: March 2021</p>			

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A ISSUED FOR 50% REVIEW				23.08.24	RP	STANTEC
No.	AMENDMENT DESCRIPTION			DATE	INIT.	DEPT/COMPANY



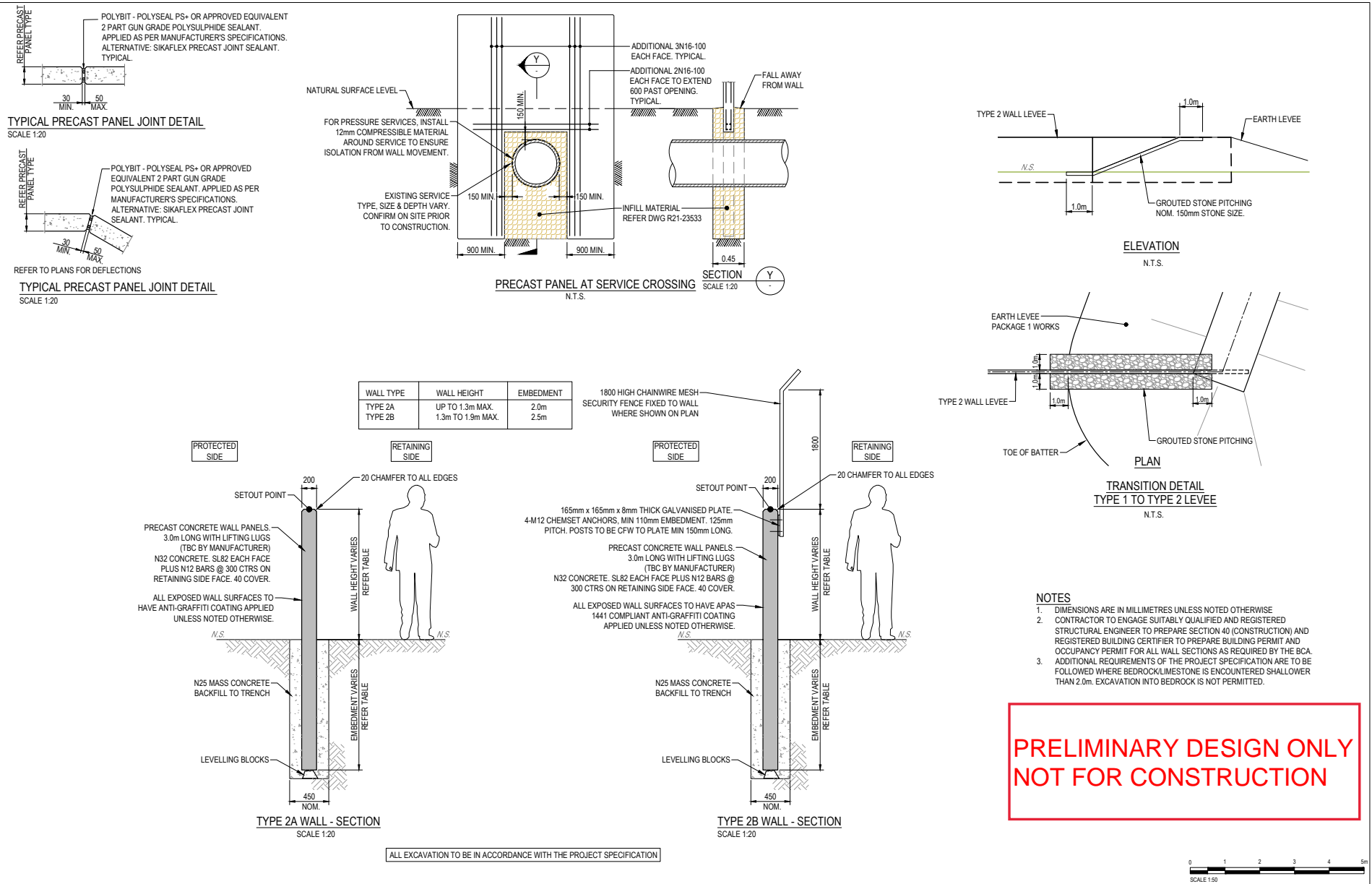
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Date: Aug '21	Date:



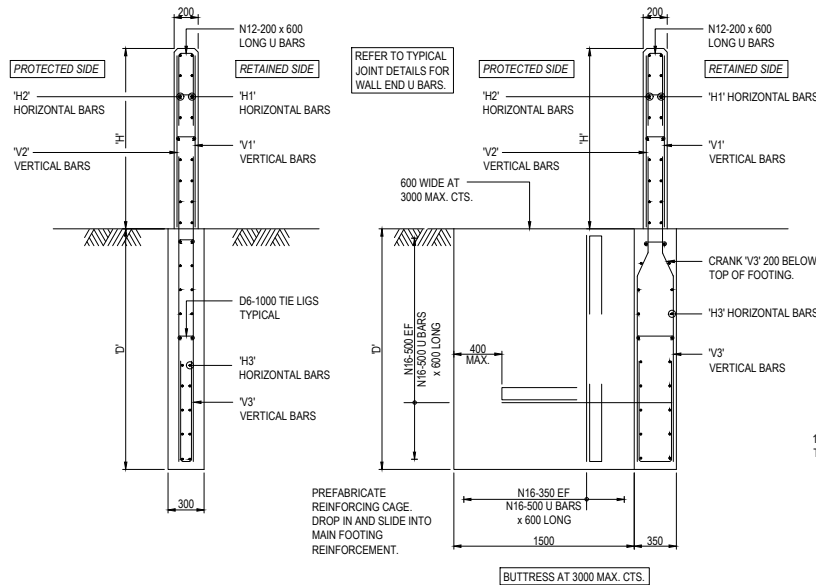
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NTG Project No. ---	NTG Asset No. ----	Sheet Reference 19 of 34	NTG Drawing No. R21-2381	Amendment A	A1

PACKAGE 2
CONCRETE WALL
CH 472 TO CH 1180

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<p>Drawn OR Date: Aug '21 Designed OR Date: Aug '21 Design Project Leader RP Date: Aug '21</p>				<p>Checked RP Date: Aug '21 Checked RP Date: Aug '21 NTG Project Manager SM/LM Date:</p>		<p>NTG Project No. ... NTG Asset No. ... Sheet Reference 20 of 34 NTG Drawing No. R21-2353 Amendment A A1</p>		<p>Version: March 2021</p>			



TYPICAL LEVEE WALL - SECTION

TYPICAL BUTTRESS LEVEE WALL - SECTION

TYPE 2 LEVEE WALL
SCALE 1:20

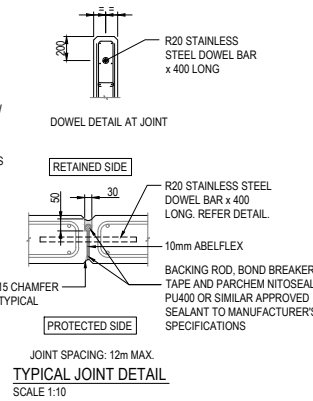
- NOTES:
1. WALL CONCRETE STRENGTH = 32 MPa
 2. FOOTING CONCRETE STRENGTH = 25 MPa

LEVEE WALL SCHEDULE

WALL HEIGHT	FOOTING DEPTH	REINFORCEMENT BARS & SPACING						
'H'	'D'	'V1'	'V2'	'V3'	'H1'	'H2'	'H3'	
UP TO 1500	2000	N12-200	N12-200	N12-200			N12-250	
1500 - 2000	2500	N12-200	N12-200	N16-200			N12-250	
2000 - 2300	3000	N16-200	N12-200	N20-200	N12-150 FOR FIRST 1m THEN N12-175	N12-150 FOR FIRST 1m THEN N12-175	N12-250	
2300 - 3000	3000 + BUTTRESS	N16-200	N12-200	N20-200			N12-250	

- NOTE: ALL DIMENSIONS IN MILLIMETRES (mm)
- LAP LENGTHS:
- * 600 MIN. LAP FOR N12
 - * 800 MIN. LAP FOR N16
 - * 1000 MIN. LAP FOR N20

ALL EXCAVATION TO BE IN ACCORDANCE WITH THE PROJECT SPECIFICATION

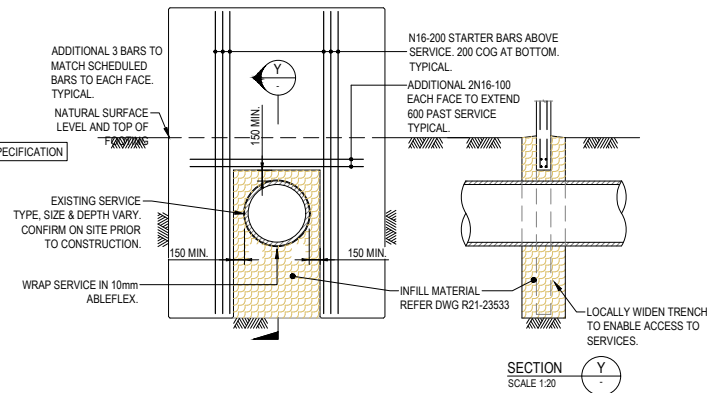
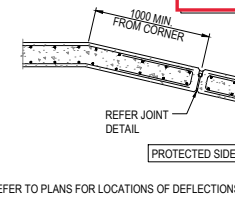


TYPICAL JOINT DETAIL
SCALE 1:10

NOTES

1. DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. CONTRACTOR TO ENGAGE SUITABLY QUALIFIED AND REGISTERED STRUCTURAL ENGINEER TO PREPARE SECTION 40 (CONSTRUCTION) AND REGISTERED BUILDING CERTIFIER TO PREPARE BUILDING PERMIT AND OCCUPANCY PERMIT FOR ALL WALL SECTIONS AS REQUIRED BY THE BCA. ADDITIONAL REQUIREMENTS OF THE PROJECT SPECIFICATION ARE TO BE FOLLOWED WHERE BEDROCK/LIMESTONE IS ENCOUNTERED SHALLOWER THAN 2.0m. EXCAVATION INTO BEDROCK IS NOT PERMITTED.

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FOOTING REINFORCEMENT AT SERVICE CROSSING DETAIL

N.T.S.
REFER DWG R21-23533 OF SERVICE CROSSING INFORMATION

0 1 2 3 4 5m
SCALE 1:50

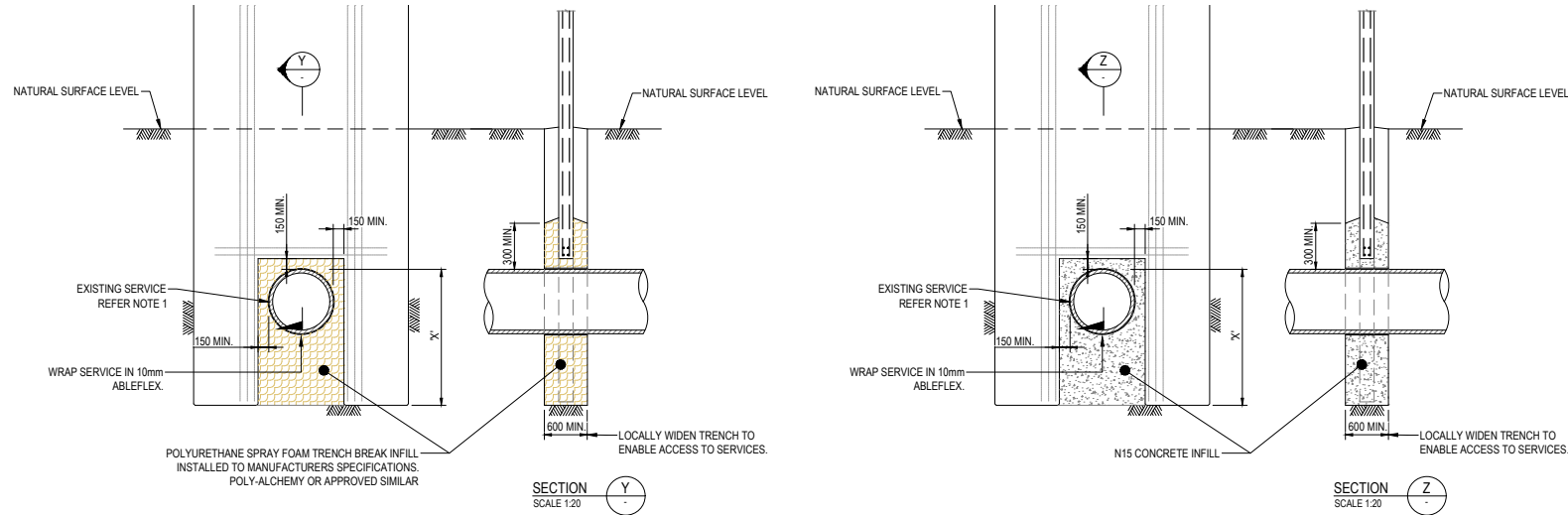
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Drawn	OR	Checked	RP
Date: Aug' 21	Designed	Date: Aug' 21	Checked
Date: Aug' 21	OR	Date: Aug' 21	RP
Design Project Leader	RP	NTG Project Manager	SM/LM
Date: Aug' 21		Date:	



KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 2 LEVEE CONSTRUCTION DETAILS - TYPE 2 LEVEE ALTERNATIVE - CAST-IN-SITU CONCRETE WALL DETAILS			
NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.
...	....	21 of 34	R21-23532
Amendment			A1
Version: March 2021			

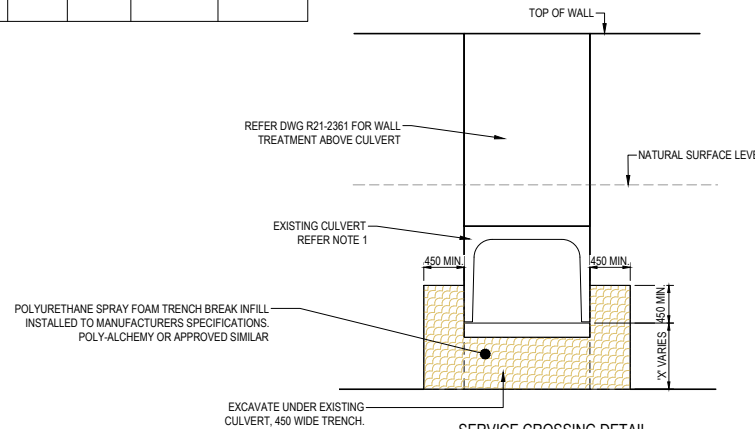


SERVICE CROSSING DETAIL
PVC PIPE AND CONDUIT
SEWER, WATER AND COMMS
N.T.S.

LOCATION	TYPE	SIZE	TOP OF PIPE	'X' (APPROX.)
CH 520.00	COMMS	DN150	RL 101.625	
CH 714.00	WATER	DN100	RL 101.390	
CH 724.20	SEWER	DN150	RL 99.84	

SERVICE CROSSING DETAIL
REINFORCED CONCRETE PIPE
STORMWATER DRAINAGE
N.T.S.

LOCATION	TYPE	SIZE	INVERT OF PIPE	'X' (APPROX.)
CH 729.20	R.C.P.	DN600	IL 101.030	
CH 913.00	R.C.P.	DN600	RL 99.85	



SERVICE CROSSING DETAIL
R.C.B.C.
STORMWATER DRAINAGE
N.T.S.

LOCATION	TYPE	SIZE	INVERT OF PIPE	'X' (APPROX.)
CH 622.00	R.C.B.C	900x900	IL 101.260	
CH 724.20	R.C.B.C	900x900	IL 101.260	

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NOTES

1. POTHOLE EXISTING SERVICE IN WALL CROSSING LOCATION PRIOR TO CONSTRUCTION AND CONFIRM PIPE SIZE, TYPE & LEVEL. FOR WALL CLEARANCE REQUIREMENTS. HAND EXCAVATE WITHIN 500mm OF EXISTING SERVICE, RETAINING UNDISTURBED TRENCH WALLS. POUR CONCRETE OR SPRAY FOAM AGAINST UNDISTURBED TRENCH WALLS.

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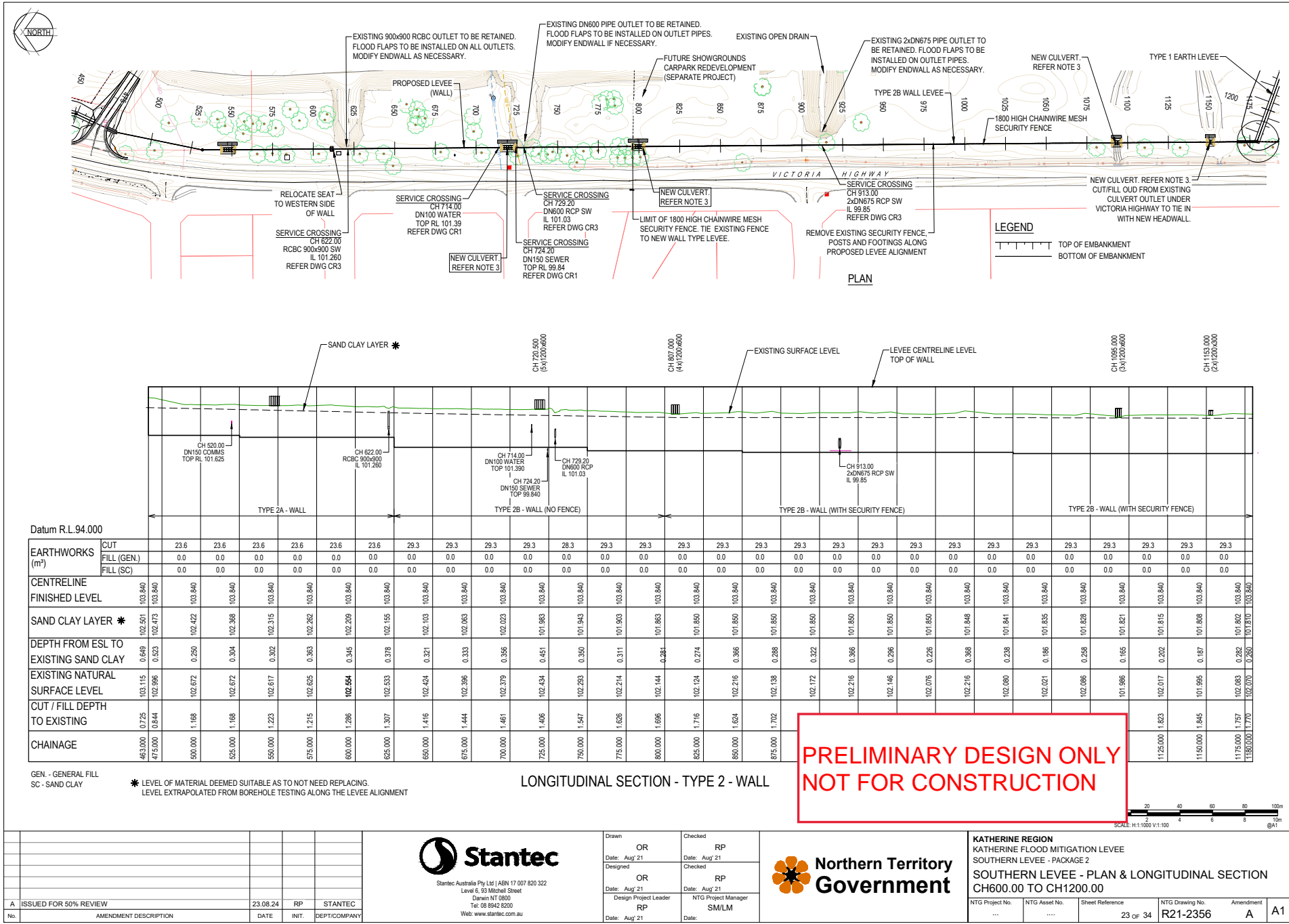


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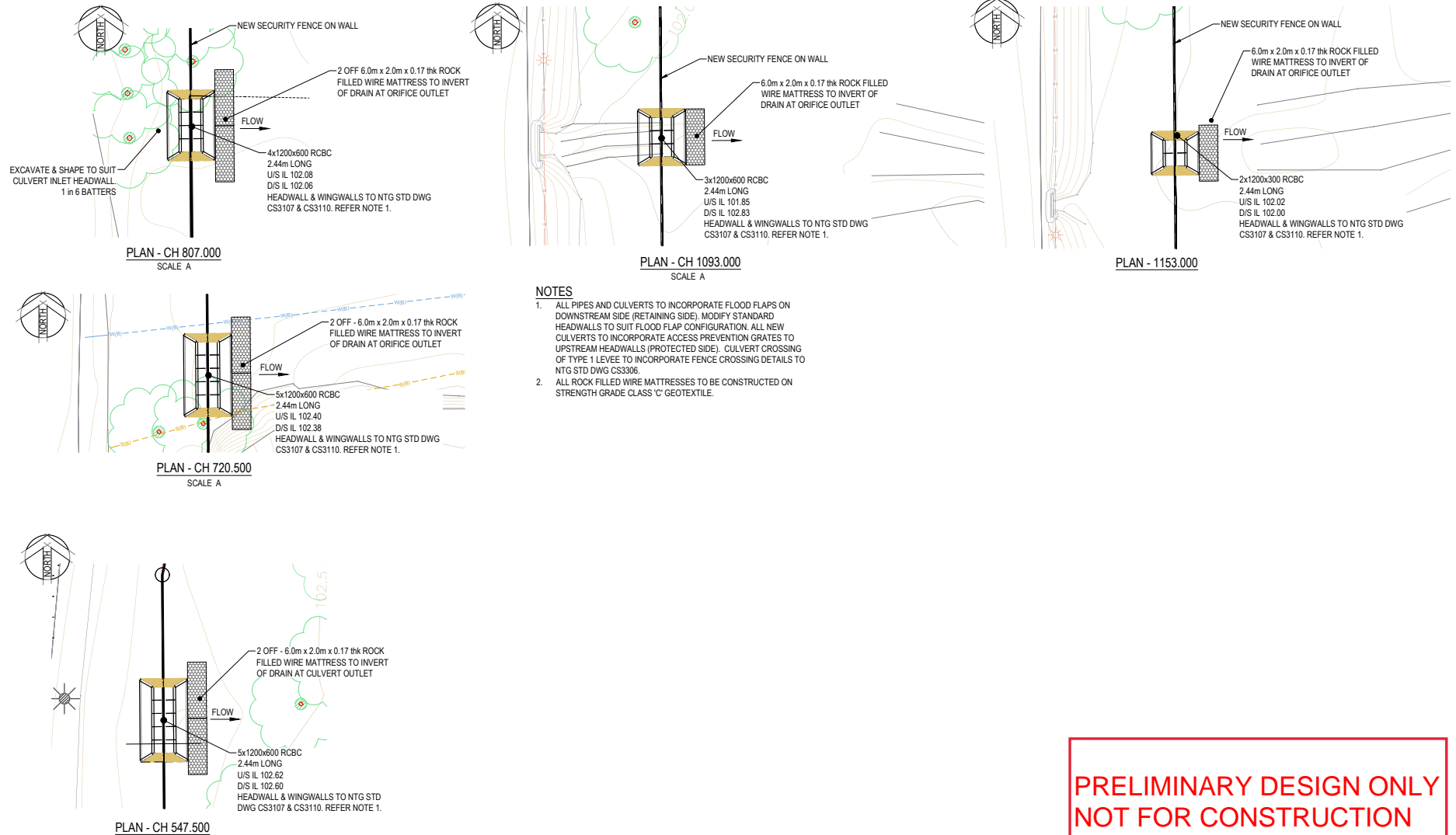


KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 2 LEVEE CONSTRUCTION DETAILS - TYPE 2 LEVEE EXISTING SERVICE CROSSING DETAILS				
NTG Project No. ...	NTG Asset No.	Sheet Reference 22 of 34	NTG Drawing No. R21-23533	Amendment A
				A1

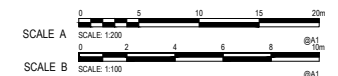
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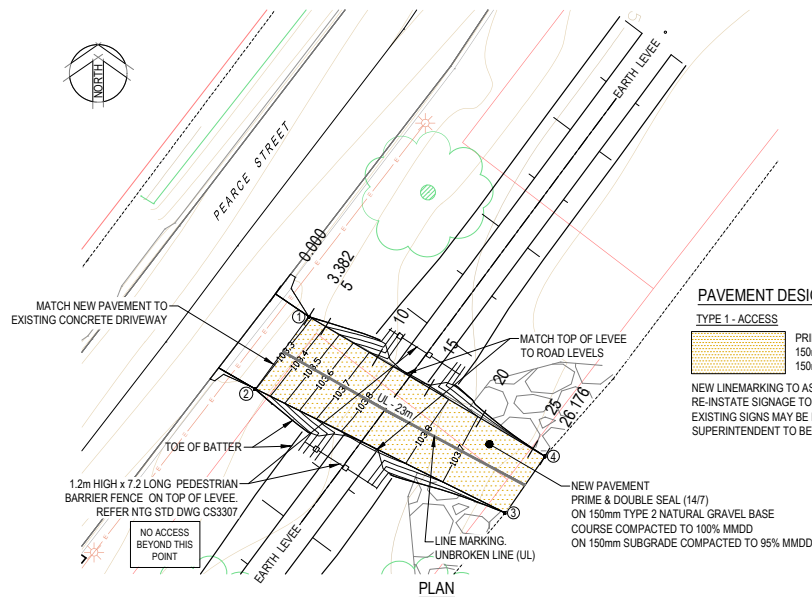
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A ISSUED FOR 50% REVIEW				23.08.24				RP				STANTEC									
No. AMENDMENT DESCRIPTION				DATE				INIT.				DEPT/COMPANY									

[illegible]

PACKAGE 3
ROADWORKS
COUNTRY CLUB ACCESS
MURPHY STREET
MURRAY STREET
BICENTENNIAL DRIVE

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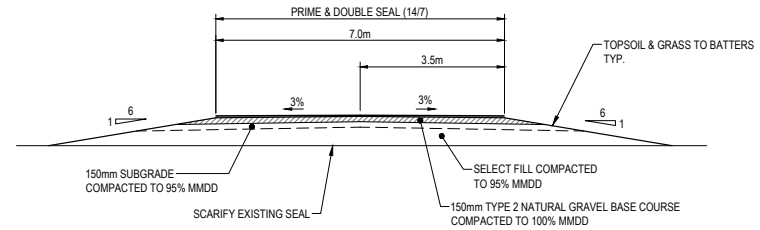


PAVEMENT DESIGN

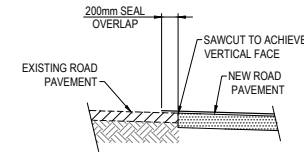
TYPE 1 - ACCESS

PRIME & DOUBLE SEAL (14/7) ON
150mm DEPTH TYPE 2 NATURAL GRAVEL BASE COMPACTED TO 100% MMDD ON
150mm DEPTH SUBGRADE COMPACTED TO 95% MMDD

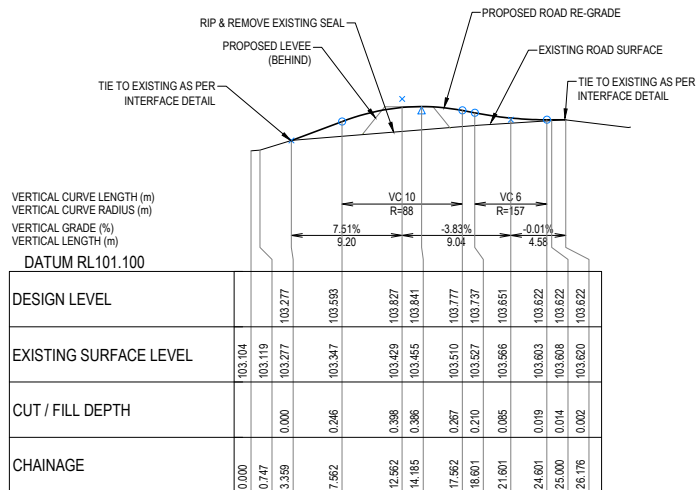
NEW LINEMARKING TO AS1742 AND NTG STD DWG. CS-2400, CS-3401 & CS-3402.
RE-INSTATE SIGNAGE TO MATCH EXISTING PRIOR TO NEW WORKS.
EXISTING SIGNS MAY BE REUSED IF IN AS-NEW CONDITION. APPROVAL OF
SUPERINTENDENT TO BE OBTAINED PRIOR TO REUSE OF EXISTING SIGNS.



TYPICAL SECTION
N.T.S.



NEW TO EXISTING PAVEMENT INTERFACE
N.T.S.

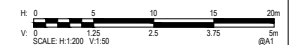


LONGITUDINAL SECTION

POINTS SETOUT TABLE				
POINT #	EASTING	NORTHING	ELEVATION (RL)	DESCRIPTION
1	204577.095	8398437.058	LONG SECTION	EDGE OF SEAL
2	204572.629	8398431.051	EXISTING	EDGE OF SEAL
3	204593.415	8398420.757	103.610	EDGE OF SEAL
4	204596.737	8398425.454	LONG SECTION	EDGE OF SEAL

REFER DWG R21-2351 FOR
SURVEY STATION DETAILS

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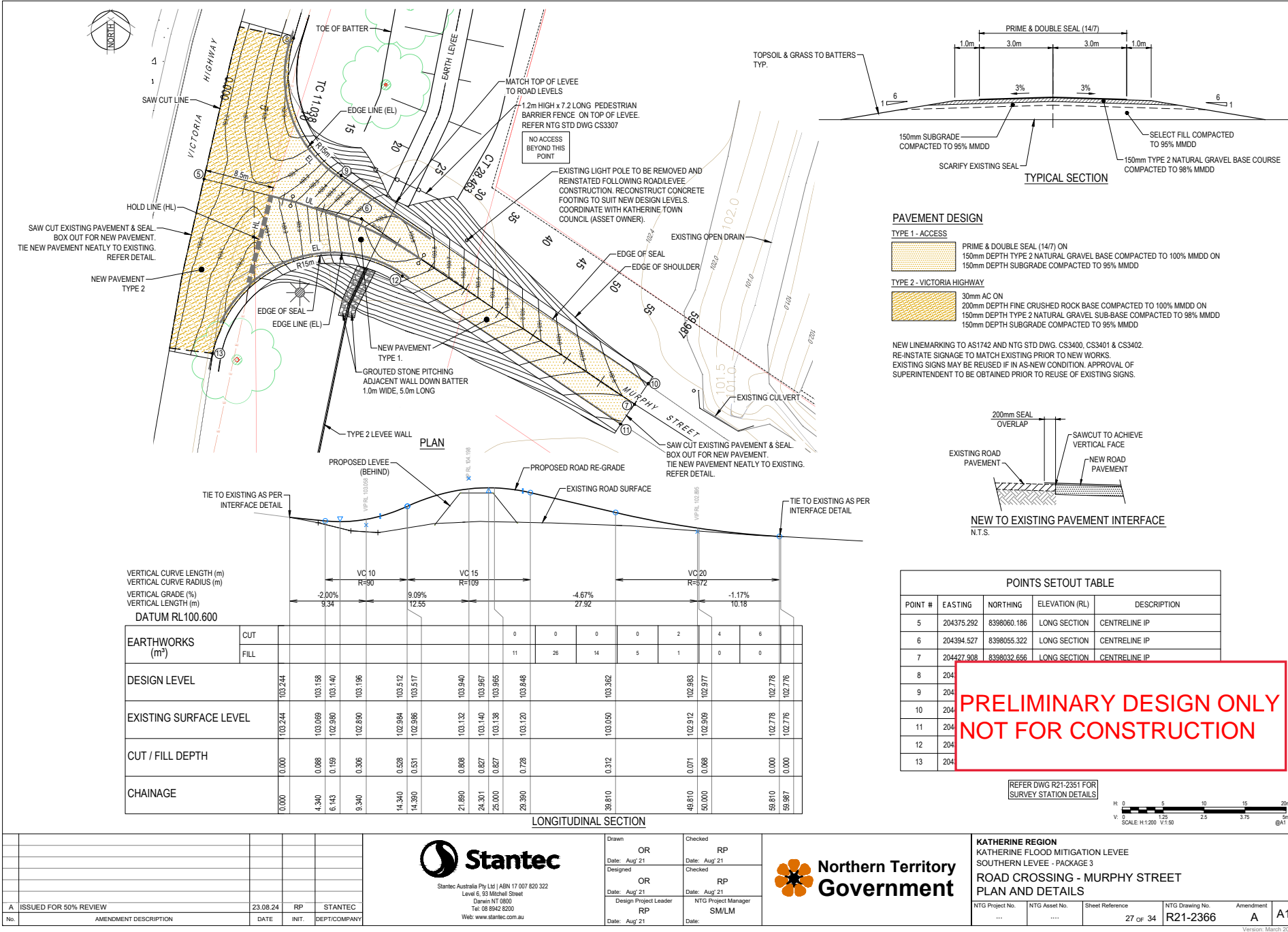
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Date: Aug '21	Date:



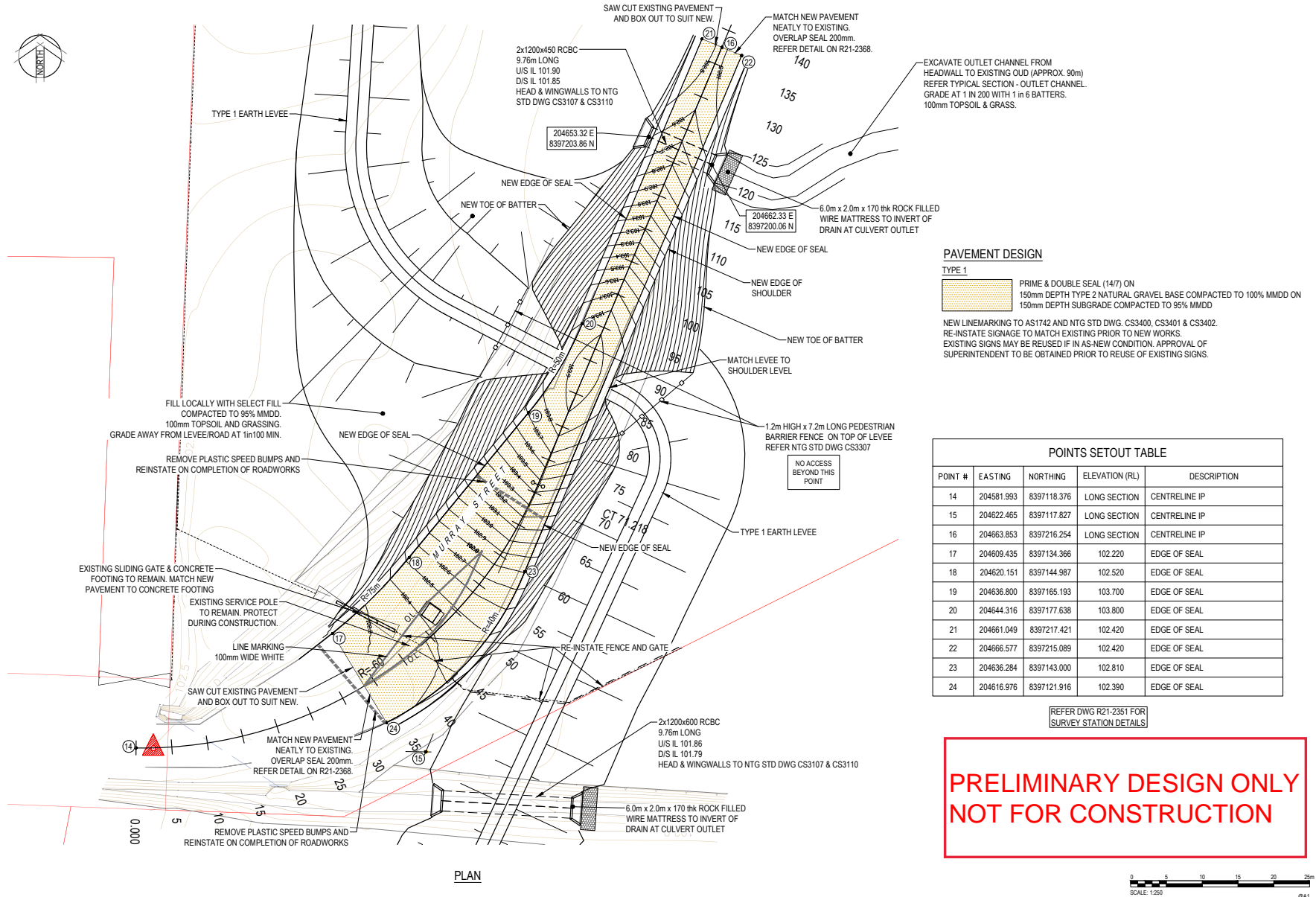
KATHERINE REGION
KATHERINE FLOOD MITIGATION LEVEE
SOUTHERN LEVEE - PACKAGE 3
ROAD CROSSING - COUNTRY CLUB ACCESS
PLAN AND DETAILS

NTG Project No. ...	NTG Asset No.	Sheet Reference 26 of 34	NTG Drawing No. R21-2365	Amendment A	A1
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Version: March 2021



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PAVEMENT DESIGN

TYPE 1

PRIME & DOUBLE SEAL (14/7) ON 150mm DEPTH TYPE 2 NATURAL GRAVEL BASE COMPACTED TO 100% MMDD ON 150mm DEPTH SUBGRADE COMPACTED TO 95% MMDD

NEW LINEMARKING TO AS1742 AND NTG STD DWG. CS3400, CS3401 & CS3402. RE-INSTATE SIGNAGE TO MATCH EXISTING PRIOR TO NEW WORKS. EXISTING SIGNS MAY BE REUSED IF IN AS-NEW CONDITION. APPROVAL OF SUPERINTENDENT TO BE OBTAINED PRIOR TO REUSE OF EXISTING SIGNS.

POINTS SETOUT TABLE

POINT #	EASTING	NORTHING	ELEVATION (RL)	DESCRIPTION
14	204581.993	8397118.376	LONG SECTION	CENTRELINE IP
15	204622.465	8397117.827	LONG SECTION	CENTRELINE IP
16	204663.853	8397216.254	LONG SECTION	CENTRELINE IP
17	204609.435	8397134.366	102.220	EDGE OF SEAL
18	204620.151	8397144.987	102.520	EDGE OF SEAL
19	204636.800	8397165.193	103.700	EDGE OF SEAL
20	204644.316	8397177.638	103.800	EDGE OF SEAL
21	204661.049	8397217.421	102.420	EDGE OF SEAL
22	204666.577	8397215.089	102.420	EDGE OF SEAL
23	204636.284	8397143.000	102.810	EDGE OF SEAL
24	204616.976	8397121.916	102.390	EDGE OF SEAL

REFER DWG R21-2351 FOR SURVEY STATION DETAILS

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No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY
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Date: Aug 21 Design Project Leader RP	Date: Aug 21 NTG Project Manager SM/LM

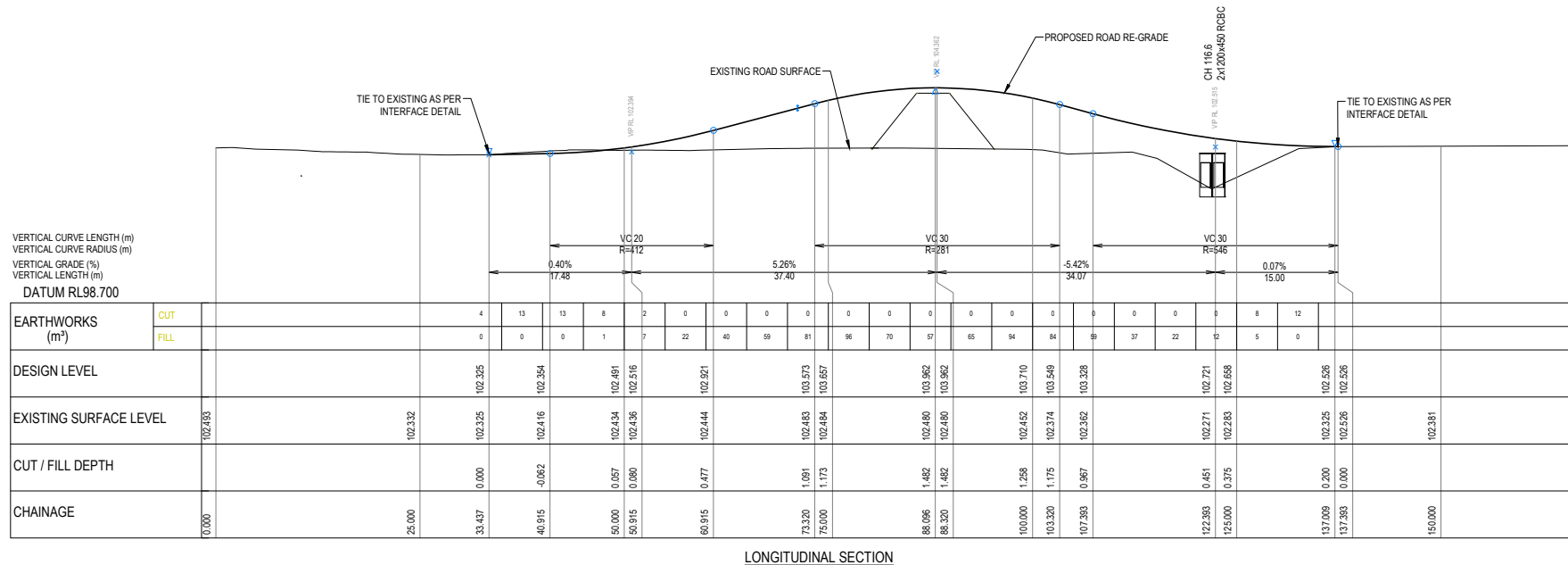
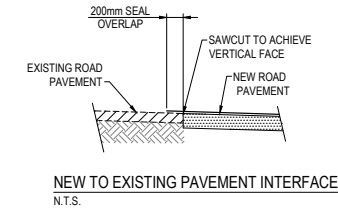
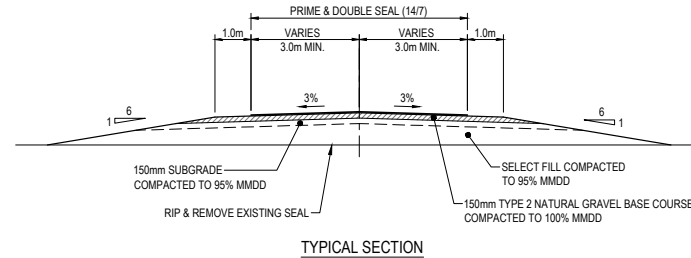


KATHERINE REGION
KATHERINE FLOOD MITIGATION LEVEE
SOUTHERN LEVEE - PACKAGE 3
ROAD CROSSING - MURRAY STREET
SETTING OUT & GRADING PLAN

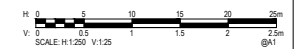
NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment	A1
...	...	28 of 34	R21-2367	A	A1

Version: March 2021

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EARTHWORKS (m³)	CUT	FILL
0.000	0.000	0.000
25.000	0.000	0.000
33.437	0.000	0.000
40.915	0.000	0.000
50.000	0.000	0.000
50.915	0.000	0.000
60.915	0.000	0.000
73.320	0.000	0.000
75.000	0.000	0.000
86.096	0.000	0.000
88.320	0.000	0.000
100.000	0.000	0.000
103.320	0.000	0.000
107.393	0.000	0.000
122.393	0.000	0.000
125.000	0.000	0.000
137.009	0.000	0.000
137.393	0.000	0.000
150.000	0.000	0.000



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Drawn: OR
 Date: Aug '21
 Designed: OR
 Date: Aug '21
 Design Project Leader: RP
 Date: Aug '21

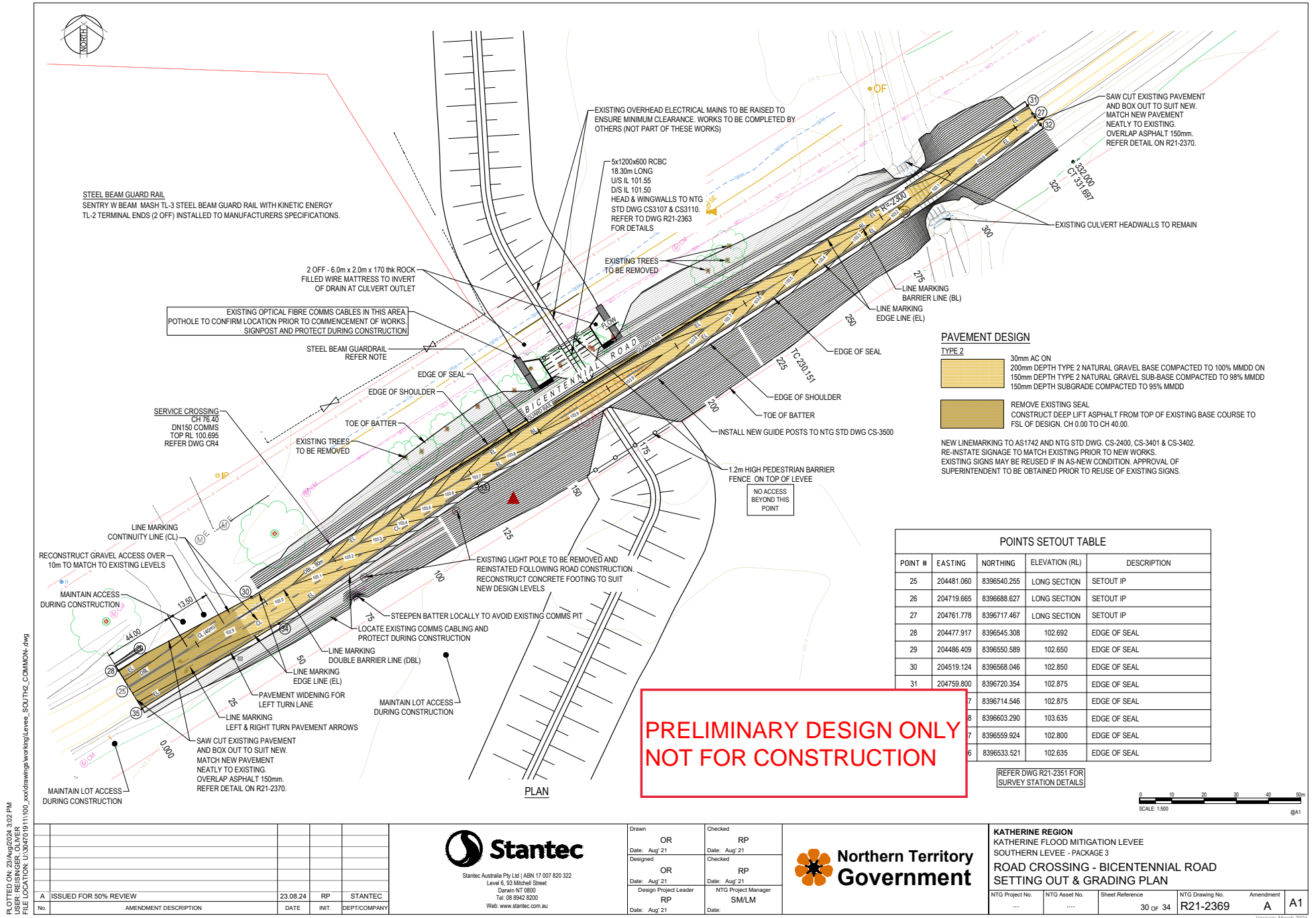
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 NTG Project Manager: SM/LM
 Date: Aug '21

Northern Territory Government

KATHERINE REGION
 KATHERINE FLOOD MITIGATION LEVEE
 SOUTHERN LEVEE - PACKAGE 3
 ROAD CROSSING - MURRAY STREET
 LONGITUDINAL SECTION AND DETAILS

NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment
---	---	29 of 34	R21-2368	A

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GUIDE POSTS TO GUARD RAIL

STEEL BEAM GUARDRAIL
REFER NOTE

GUIDE POST, REFER NTG
STD DWG CS3500

SELECT FILL COMPACTED
TO 95% MMD

ON 200mm TYPE 2 NATURAL GRAVEL BASE
COURSE COMPACTED TO 100% MMD

ON 150mm TYPE 2 NATURAL GRAVEL SUB-BASE
COURSE COMPACTED TO 98% MMD

RIP & REMOVE EXISTING SEAL

150mm SUBGRADE
COMPACTED TO 95% MMD

7.0m

PRIME & 30mm AC

1.5m 3.5 3.5 1.5m

1.0m 3.0 3.0

3% 3%

6 1

150 AC OVERLAP

EXISTING ROAD PAVEMENT

SAWCUT TO ACHIEVE VERTICAL FACE

NEW ROAD PAVEMENT

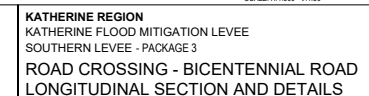
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H: 0 10 20 30 40 50m
V: 0 1 2 3 4 5m
SCALE: H:1:500 V:1:50 (BA1)

A	ISSUED FOR 50% REVIEW	23.08.24	RP		STANTEC
No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPA	

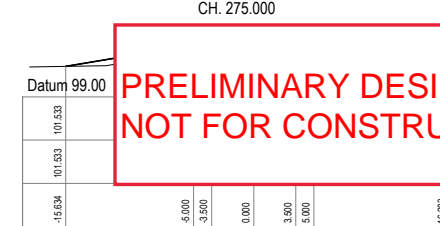
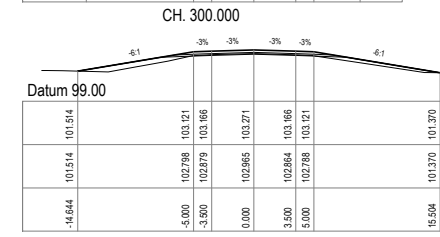
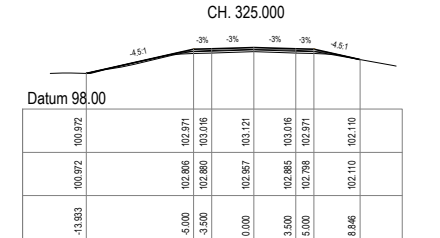
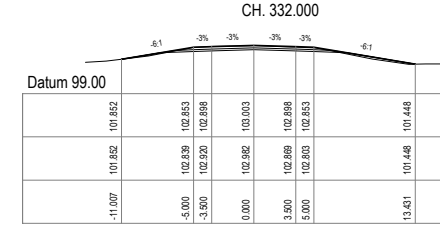
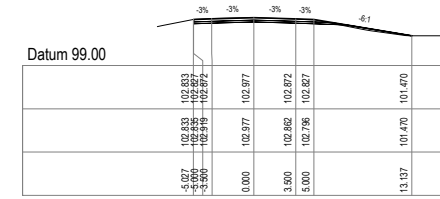
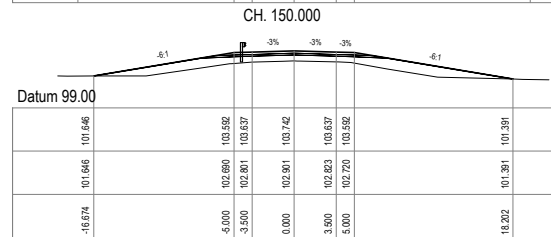
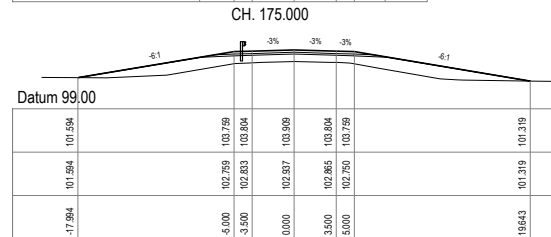
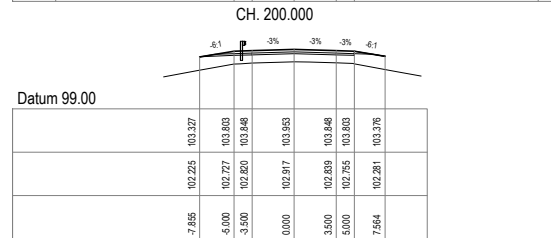
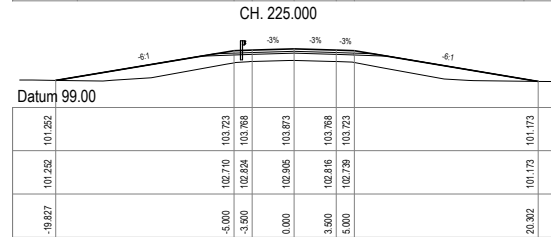
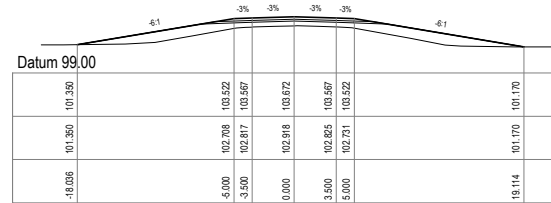
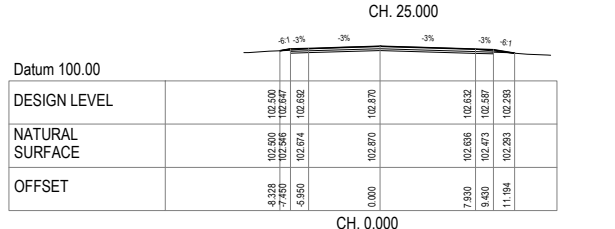
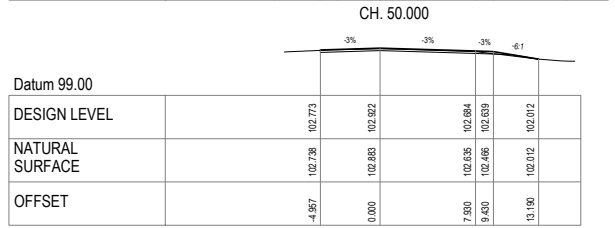
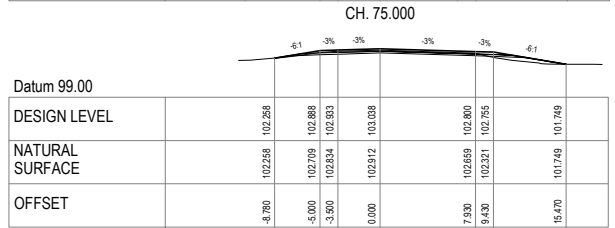
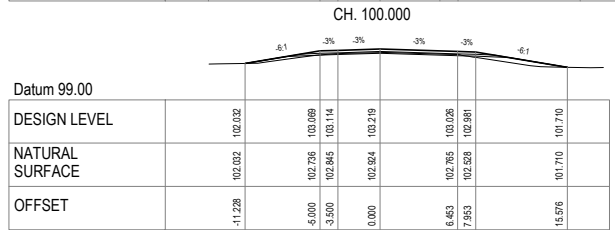
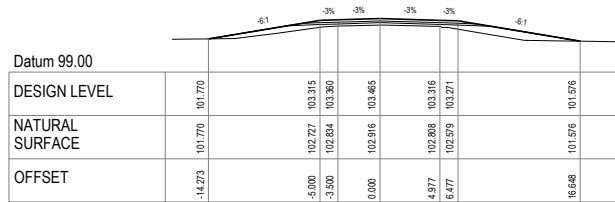


Drawn OR Date: Aug '21	Checked RP Date: Aug '21
Designed OR Date: Aug '21	Checked RP Date: Aug '21
Design Project Leader RP Date: Aug '21	NTG Project Manager SM/LM Date:



NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment	
...	31 OF 34	R21-2370	A	A1

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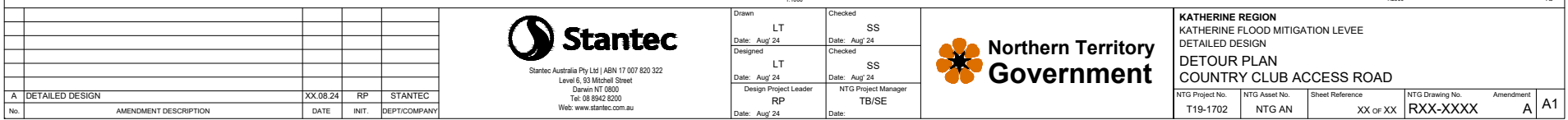
No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY
A	ISSUED FOR 50% REVIEW	23.08.24	RP	STANTEC



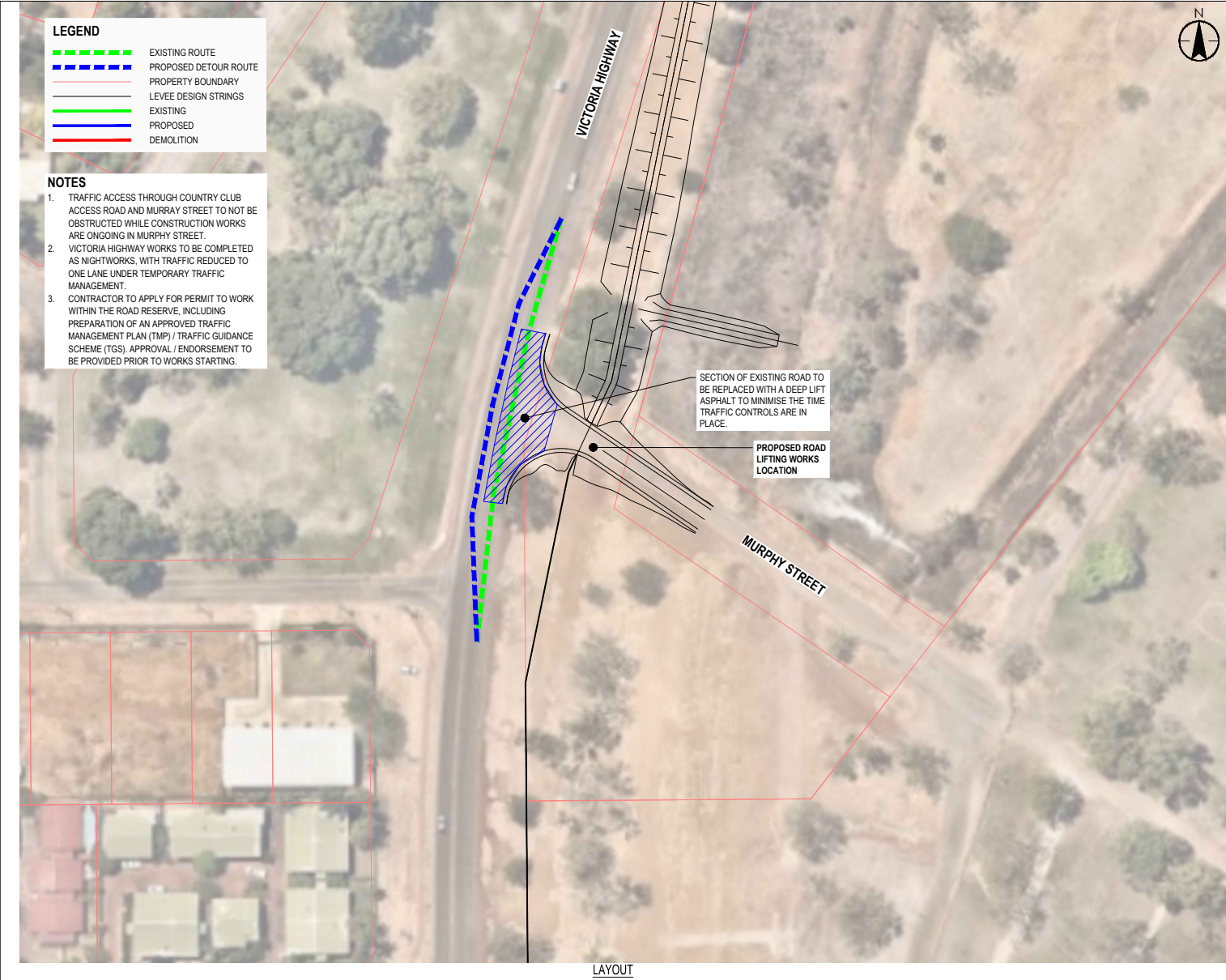
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Checked Date: Aug 21 RP	RP Date: Aug 21 NTG Project Manager
	SM/LM



KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE SOUTHERN LEVEE - PACKAGE 3 ROAD CROSSING - BICENTENNIAL ROAD CROSS SECTIONS				
NTG Project No. ...	NTG Asset No.	Sheet Reference 32 of 34	NTG Drawing No. R21-2371	Amendment A
				A1



PLOTTED ON: 21/Aug/2024 6:30 PM
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No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY

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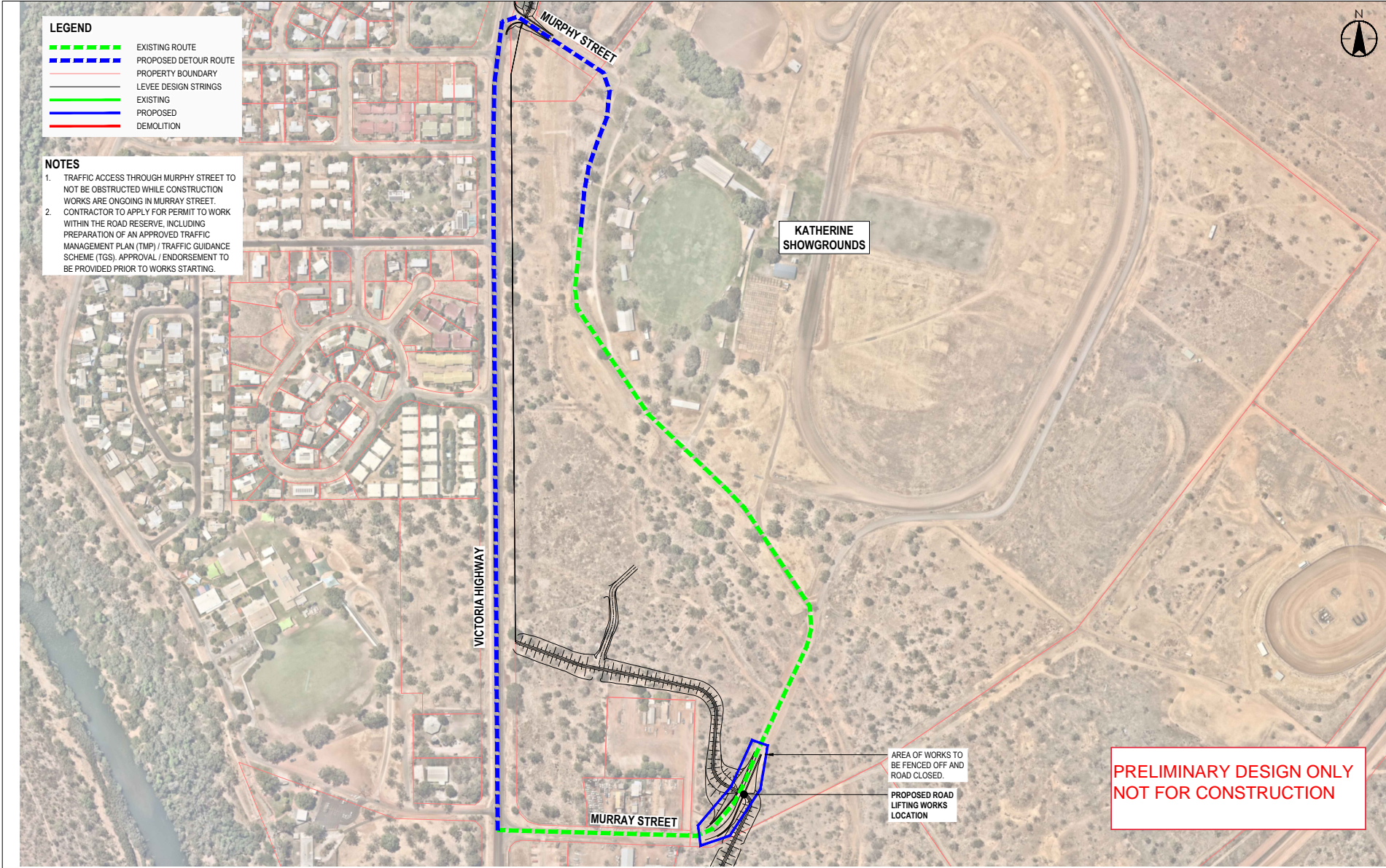
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Date:	Aug '24	Date:	Aug '24
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Date:	Aug '24	Date:	Aug '24
Design Project Leader	RP	NTG Project Manager	TB/SE
Date:	Aug '24	Date:	



KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE DETAILED DESIGN DETOUR PLAN MURPHY STREET				
NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment
T19-1702	NTG AN	XX of XX	RXX-XXXX	A
				A1

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No.	AMENDMENT DESCRIPTION	DATE	INIT.	DEPT/COMPANY

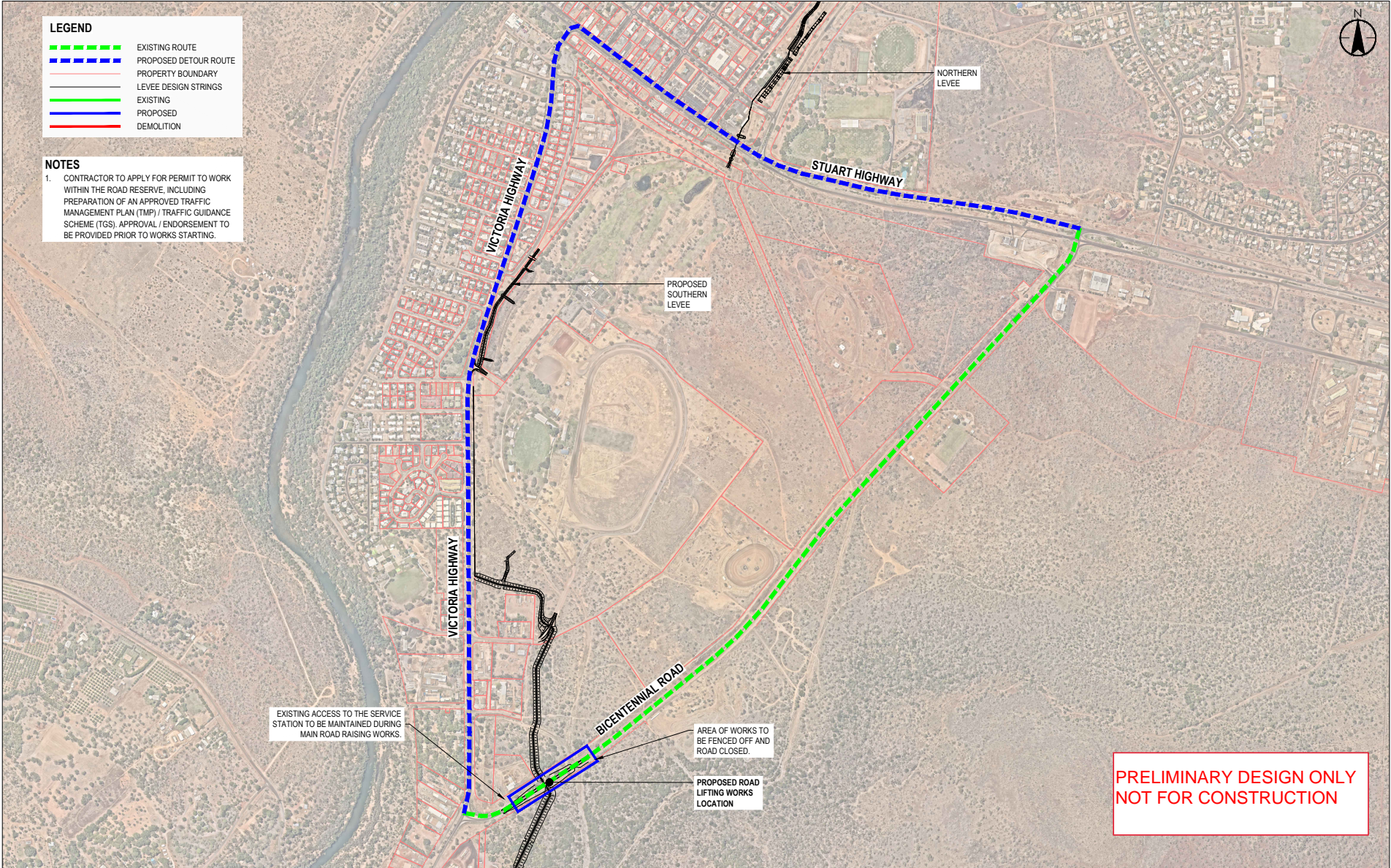
Stantec
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Drawn	LT	Checked	SS
Date: Aug '24		Date: Aug '24	
Designed	LT	Checked	SS
Date: Aug '24		Date: Aug '24	
Design Project Leader	RP	NTG Project Manager	TB/SE
Date: Aug '24		Date:	



KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE DETAILED DESIGN DETOUR PLAN MURRAY STREET				
NTG Project No.	NTG Asset No.	Sheet Reference	NTG Drawing No.	Amendment
T19-1702	NTG AN	XX of XX	RXX-XXXX	A A1
Version: March 2021				

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						 Stantec Australia Pty Ltd ABN 17 007 820 322 Level 6, 93 Mitchell Street Darwin NT 0800 Tel: 08 8942 8200 Web: www.stantec.com.au		Drawn LT Date: Aug' 24 Designed LT Date: Aug' 24 Design Project Leader RP Date: Aug' 24		Checked SS Date: Aug' 24 Checked SS Date: Aug' 24 NTG Project Manager TB/SE Date:		 Northern Territory Government		KATHERINE REGION KATHERINE FLOOD MITIGATION LEVEE DETAILED DESIGN DETOUR PLAN BICENTENNIAL ROAD		
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No. AMENDMENT DESCRIPTION						DATE	INIT.	DEPT/COMPANY								