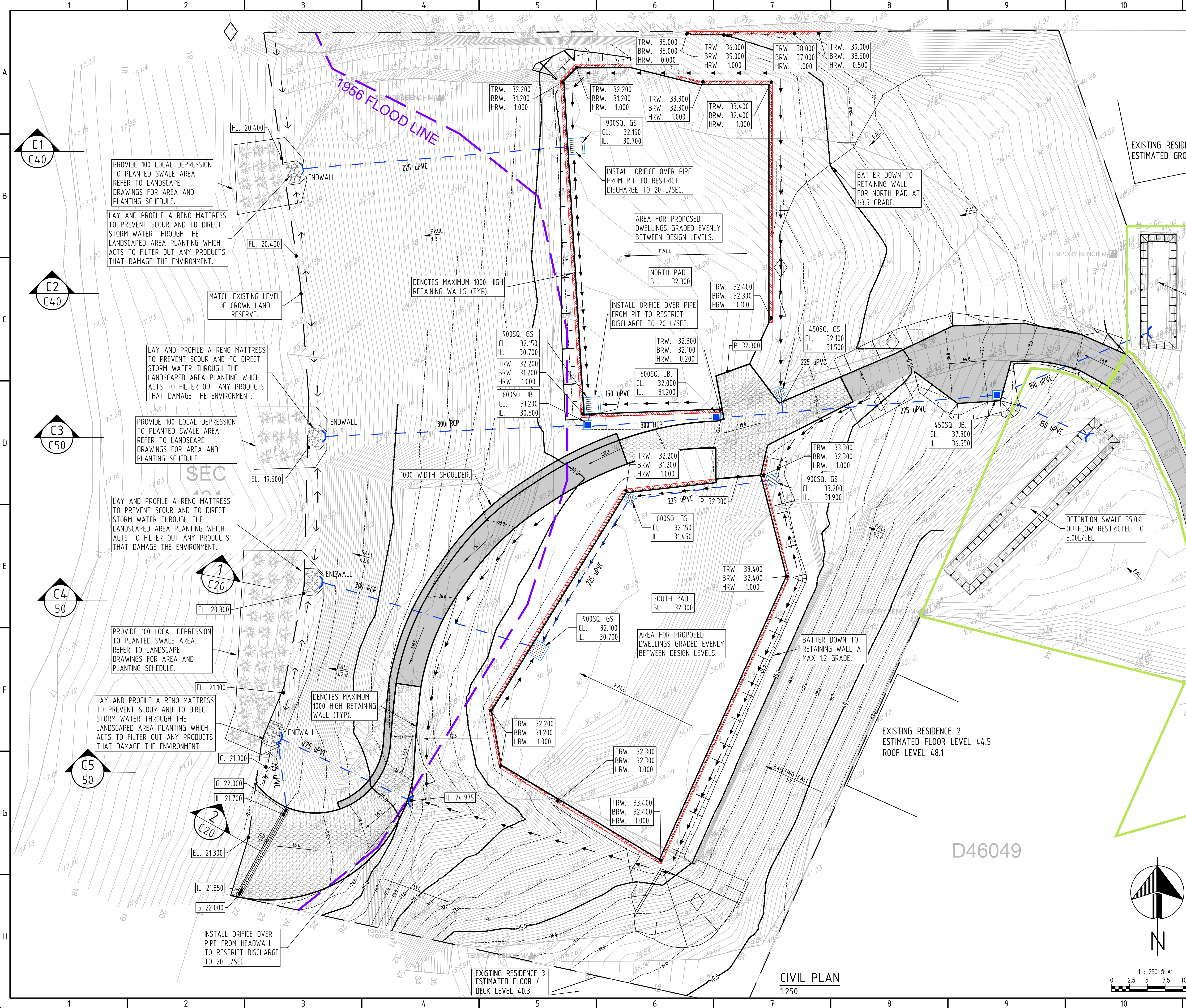




LEGEND

COMPACTED RUBBLE

PERMEABLE PAVING

SCOUR PROTECTION

ALLOTMENT BOUNDARY

EXISTING CONTOUR

DESIGN CONTOUR (MAJOR)

DESIGN CONTOUR (MINOR)

EMBANKMENT/BATTER (GRADE BANKS 1:2 MAX. UNO.)

CUT-OFF DRAIN (MIN. FALL 1:200)

FORMED/UNLINED OPEN DRAIN (MIN. FALL 1:200)

STORMWATER PIPE 1% MIN UNO.

HEADWALL / ENDWALL

(GS) 450SQ. GRATED SUMP (UNO)

(JB) 450SQ. JUNCTION BOX (UNO)

(GS) 600SQ. GRATED SUMP (UNO)

(GS) 900SQ. GRATED SUMP (UNO)

300 WIDE GRATED TRENCH DRAIN

CONCRETE SLEEPER RETAINING WALL WITH SANDSTONE BLOCK PATTERN

DESIGN LEVEL

T.K. TOP OF KERB

W.T. WATER TABLE

P. PAVEMENT

T.R.W. TOP OF RETAINING WALL

B.R.W. BOTTOM OF RETAINING WALL (PAV. / GROUND LEVEL)

CL COVER LEVEL

IL INVERT LEVEL

F.F.L. FINISHED FLOOR LEVEL

BL BENCH LEVEL

N.S. NATURAL SURFACE LEVEL

NOTES:

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THE LOCATION OF EXISTING STRUCTURES ADJACENT TO THE AREA OF CONSTRUCTION ARE TO BE CHECKED ON SITE BY THE BUILDER / CONTRACTOR. SHOULD A RISK OF POTENTIALLY UNDERMINING AN EXISTING STRUCTURE EXIST, THIS OFFICE IS TO BE NOTIFIED IMMEDIATELY.

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No	REVISION	DRAWN	CHE'KD	DATE

PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT

AT: 10 PANORAMA CT, PARINGA

FOR: SCOTT MEEK

DRAWING TITLE

CIVIL PLAN

Civil

Geotechnical

Environmental

Structural

Mechanical

Electrical

Fire

Hydraulics

Forensic

Construction Assist

Vertical Transport

Adelaide Office: 08 8238 4100

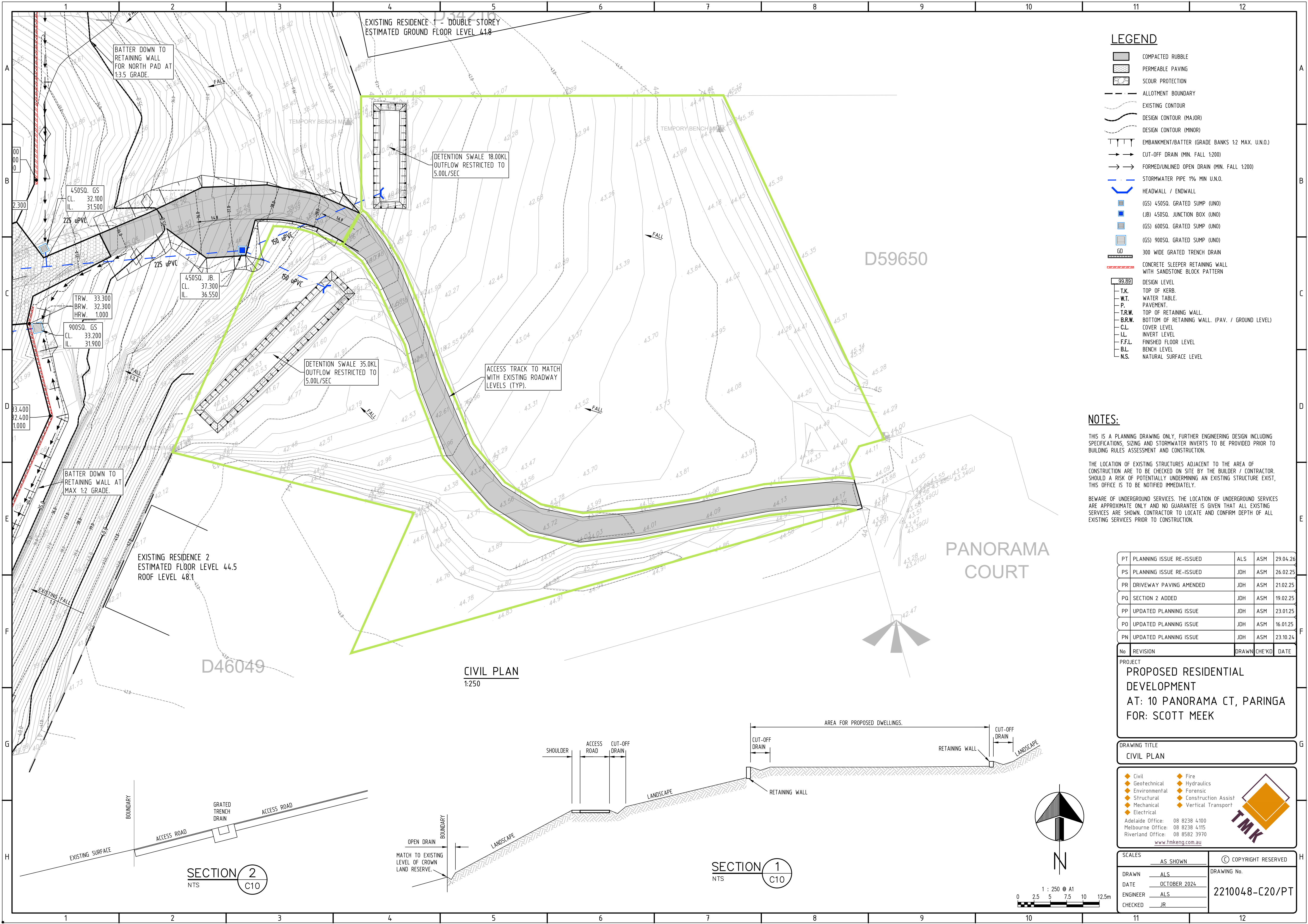
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LEGEND

- COMPACTED RUBBLE
- PERMEABLE PAVING
- SCOUR PROTECTION
- ALLOTMENT BOUNDARY
- EXISTING CONTOUR
- DESIGN CONTOUR (MAJOR)
- DESIGN CONTOUR (MINOR)
- EMBANKMENT/BATTER (GRADE BANKS 1:2 MAX. U.N.O.)
- CUT-OFF DRAIN (MIN. FALL 1:200)
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- CONCRETE SLEEPER RETAINING WALL WITH SANDSTONE BLOCK PATTERN
- DESIGN LEVEL
- T.K. TOP OF KERB.
- W.T. WATER TABLE.
- P. PAVEMENT.
- T.R.W. TOP OF RETAINING WALL.
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- C.L. COVER LEVEL
- I.L. INVERT LEVEL
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PROJECT
PROPOSED RESIDENTIAL
DEVELOPMENT
AT: 10 PANORAMA CT, PARINGA
FOR: SCOTT MEEK

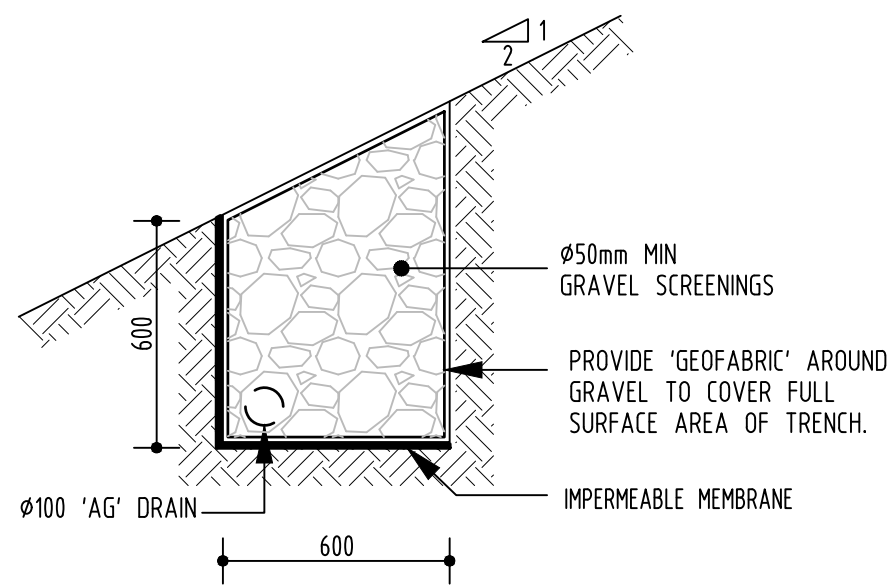
DRAWING TITLE
CIVIL PLAN

- Civil
- Geotechnical
- Environmental
- Structural
- Mechanical
- Electrical
- Fire
- Hydraulics
- Forensic
- Construction Assist
- Vertical Transport

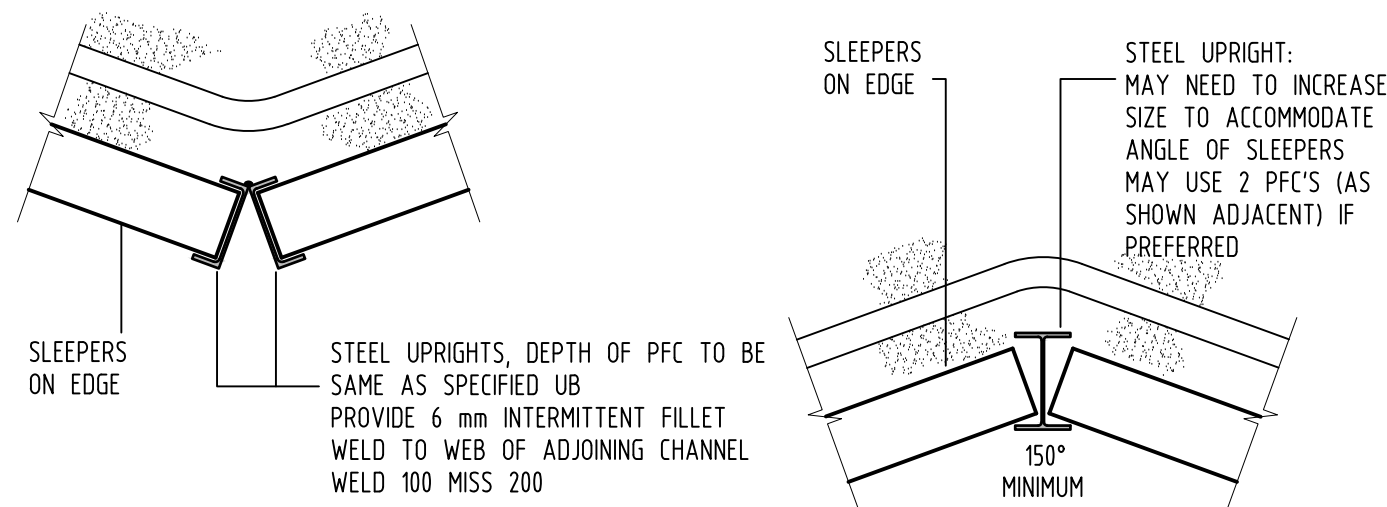
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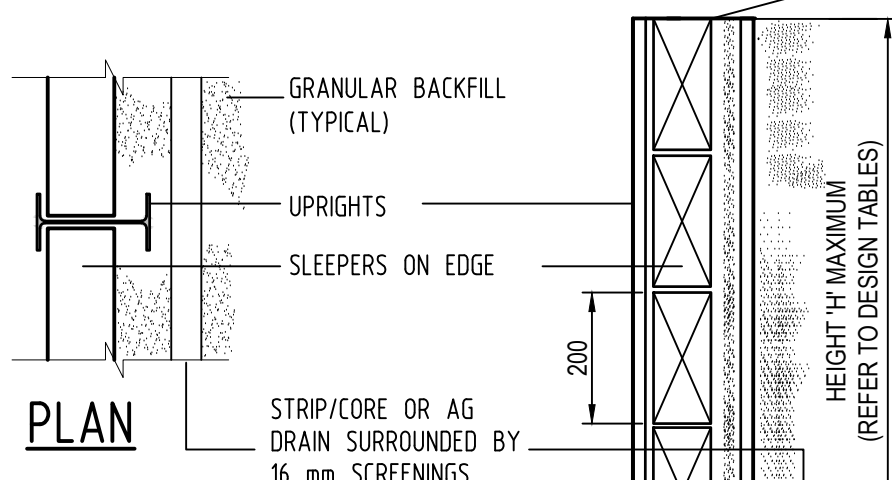
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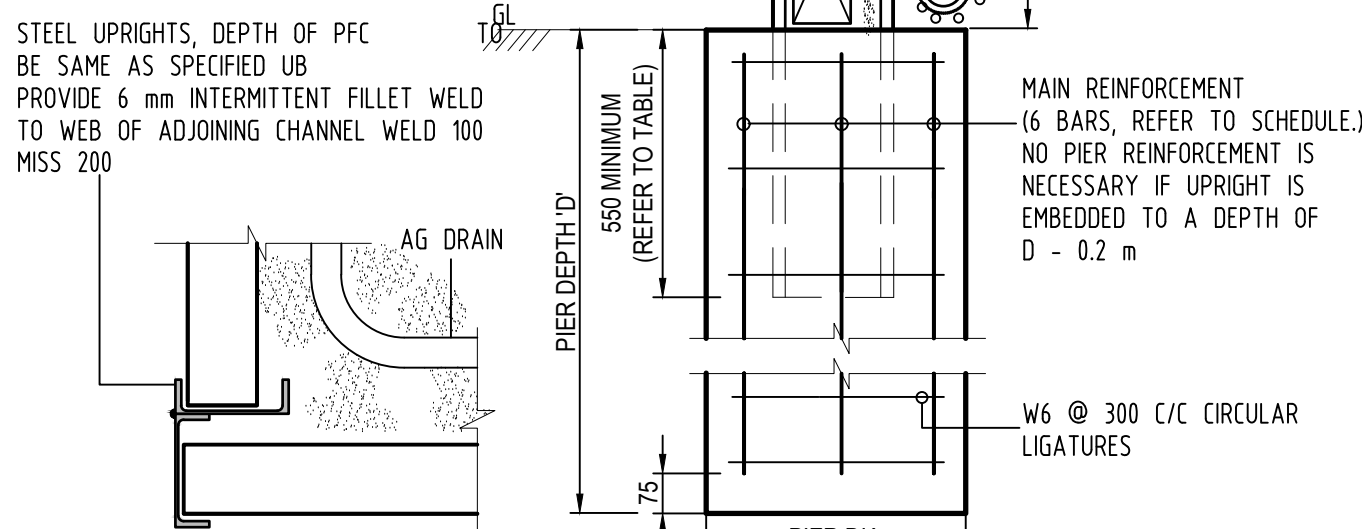
CUT-OFF DRAIN



CORNER DETAILS



PLAN



TYPICAL SECTION

CORNER DETAIL

CONCRETE SLEEPER RETAINING WALL SCHEDULE UPRIGHTS AT 2000 mm CENTRES - BACKFILL SLOPE ≤ 30 DEGREES									
WALL HEIGHT	CONCRETE SLEEPERS THICKNESS	SLEEPERS HEIGHT	PIER DIMENSIONS ^{xx} DIAMETER	PIER DIMENSIONS ^{xx} DEPTH	PIER FOOTING REINFORCEMENT	PIER FOOTING REINFORCEMENT	STEEL UPRIGHTS DESIGNATION	STEEL UPRIGHTS MIN. EMBED	
800	100	200	2-N10	450	1500	6-N16	150 UB 14	650	
1000	100	200	2-N10	450	1900	6-N16	150 UB 14	650	
1200	100	200	2-N10	450	2200	6-N16	150 UB 14	650	
1400	100	200	2-N10	450	2500	6-N16	180 UB 16	650	
1600	100	200	2-N10	450	2800	6-N20	200 UB 22	650	
1800	100	200	2-N10	600	2700	6-N20	250 UB 25	650	
2000	100	200	2-N10	600	3000	6-N20	250 UB 25	650	

NOTES FOR TABLES:

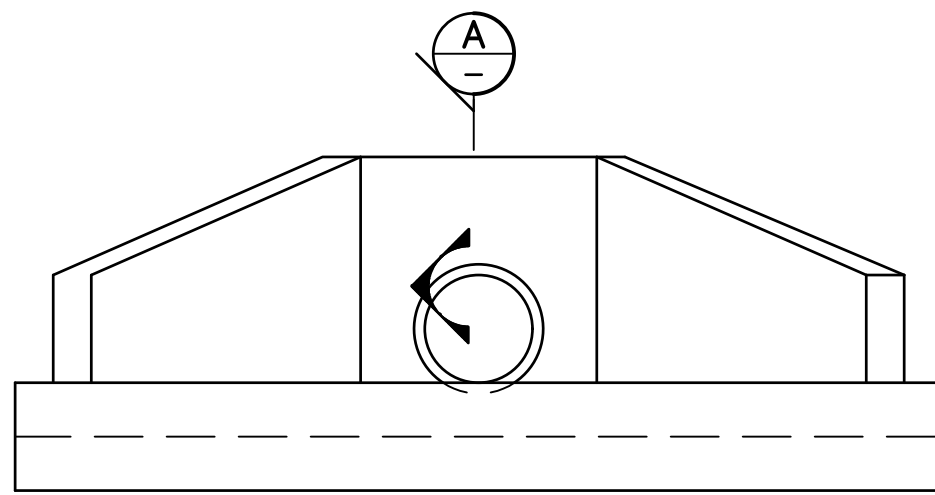
-- THE DESIGN ASSUMES THAT WALLS OF HEIGHT 15 m OR LESS WOULD RESULT IN MINIMAL DAMAGE AND LOSS OF ACCESS, THAT IS, THEY ARE CLASS A WALLS IN ACCORDANCE WITH AS 4678-2002 EARTH RETAINING STABLE 11, APPENDIX A TABLE A1 AND TABLE 4.1. THE LIVE LOAD SURCHARGE IS 3.00 kPa FOR WALLS UP TO 15 m HIGH (DRIVEWAY LOADING) AND 5.00 kPa FOR WALLS GREATER THAN 15 m IN HEIGHT.

xxCONCRETE EXPOSURE CLASSIFICATION B1: GRADE N32 AND MINIMUM COVER TO REINFORCEMENT 30 mm, IN ACCORDANCE WITH AS 3600-2009 CONCRETE STRUCTURES TABLE 4.10.3.3, i.e. INTENSE COMPACTION IN RIGID FORMWORK.

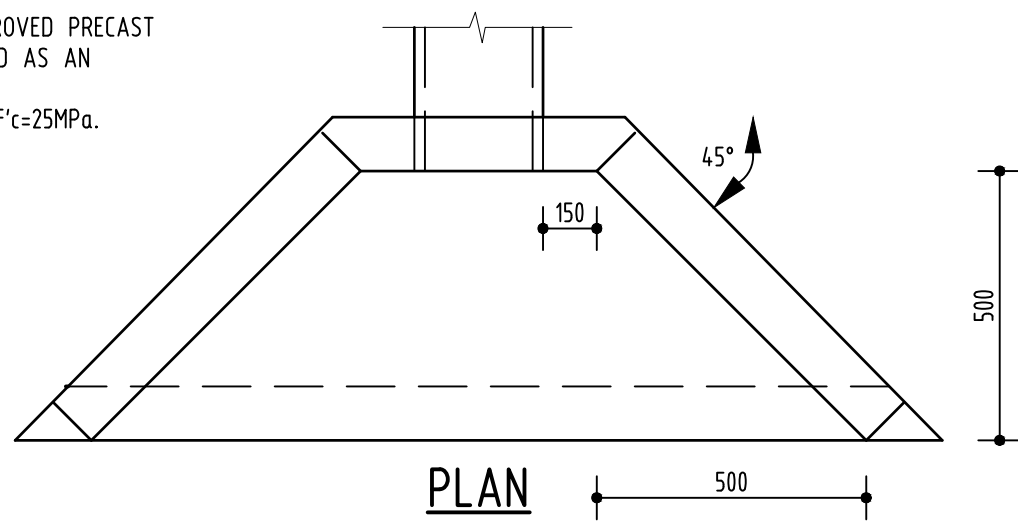
--REINFORCEMENT IS PLACED AT THE MID-THICKNESS OF WALL, i.e. D = 55 mm FOR 100 mm THICK SLEEPERS.

^^ THE MINIMUM RATIO OF DEPTH-TO-DIAMETER FOR THE BORED PIER FOOTINGS IS 2.00.

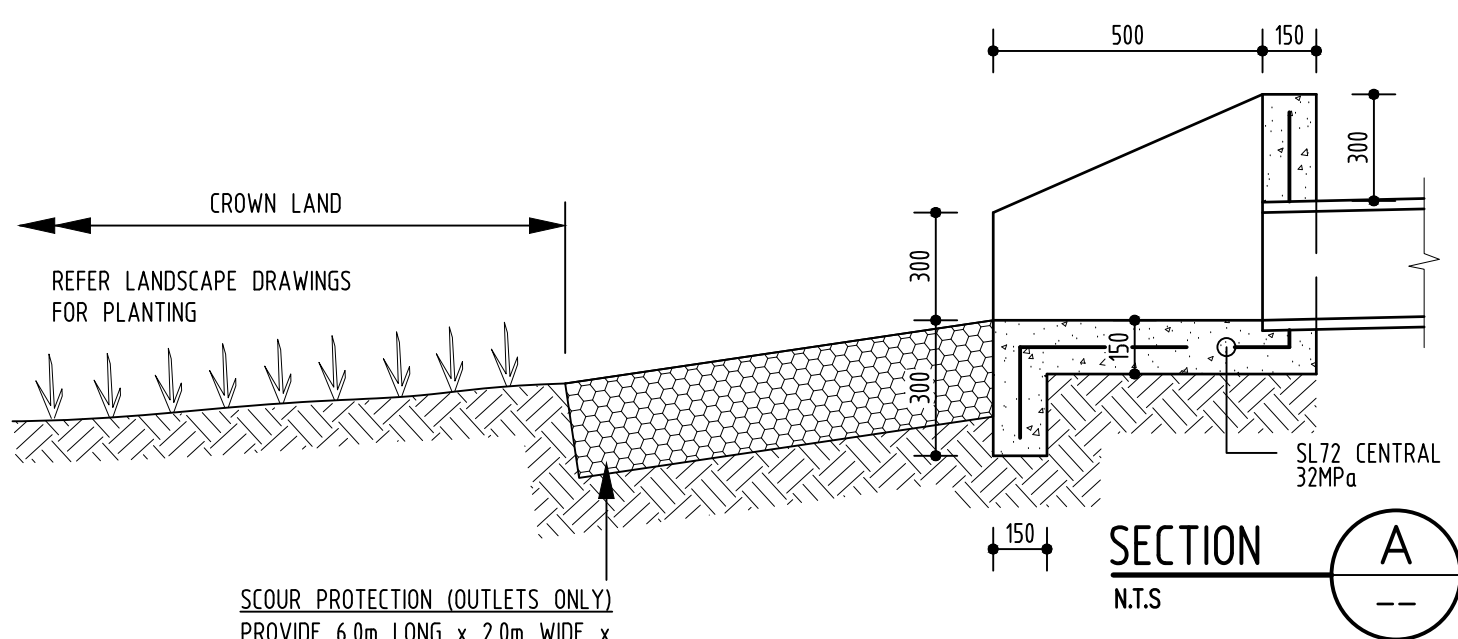
^^ THE BORED PIER CAN BE REINFORCED EITHER BY CONTINUING THE STEEL POST UPRIGHT TO WITHIN 200 mm OF THE BASE OF THE PIER OR BY CASTING THE STEEL POST UPRIGHT TO A DEPTH OF 29 BAR DIAMETERS PLUS 60 mm BELOW THE TOP OF THE PIER AND USING REINFORCING BARS IN THE CONCRETE THROUGHOUT THE DEPTH OF THE PIER. IN THIS CASE THE MAXIMUM REINFORCEMENT RATIO OF 0.005 IN ACCORDANCE WITH AS 2159-2009 PILING - DESIGN AND INSTALLATION. COVER TO PIER FOOTING REINFORCEMENT IS 60 mm. LIGATURES ARE W6 @ 300 mm C/C MAX.



ELEVATION



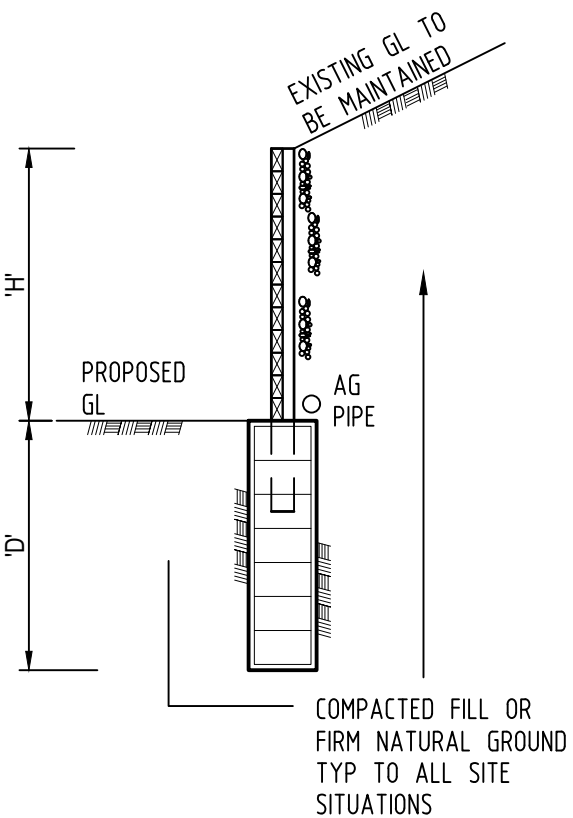
PLAN



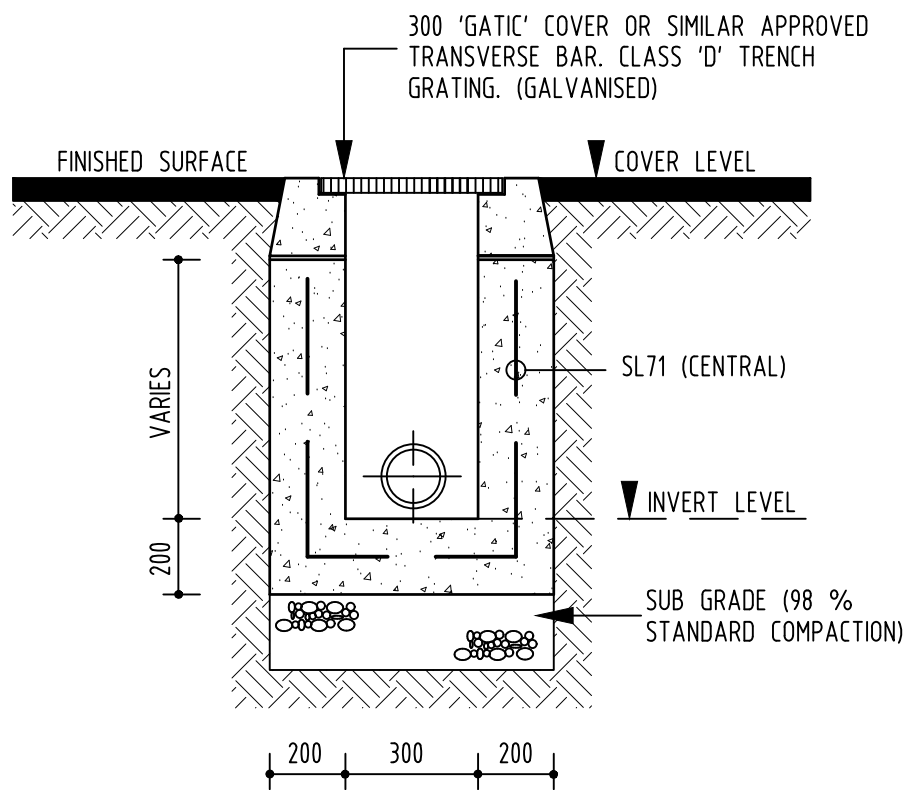
SECTION

N.T.S.

PRE-CAST CONCRETE HEAD WALL AND ROC MATTRESS

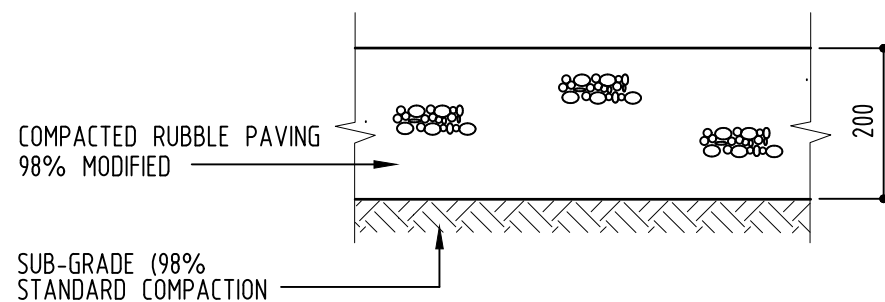


SITE SITUATION 1
N.T.S.

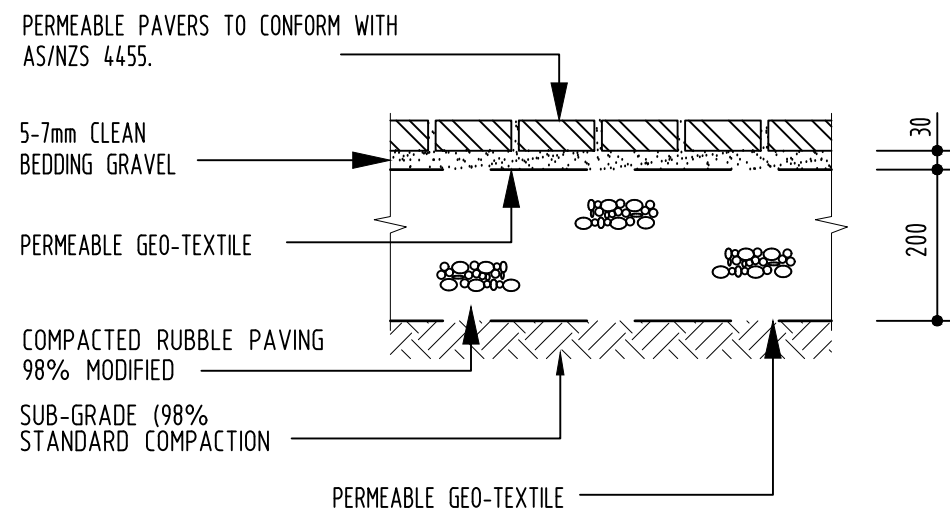


GRATED TRENCH DRAIN

N.T.S.



COMPACTED RUBBLE PAVEMENT



PERMEABLE PAVING DETAIL

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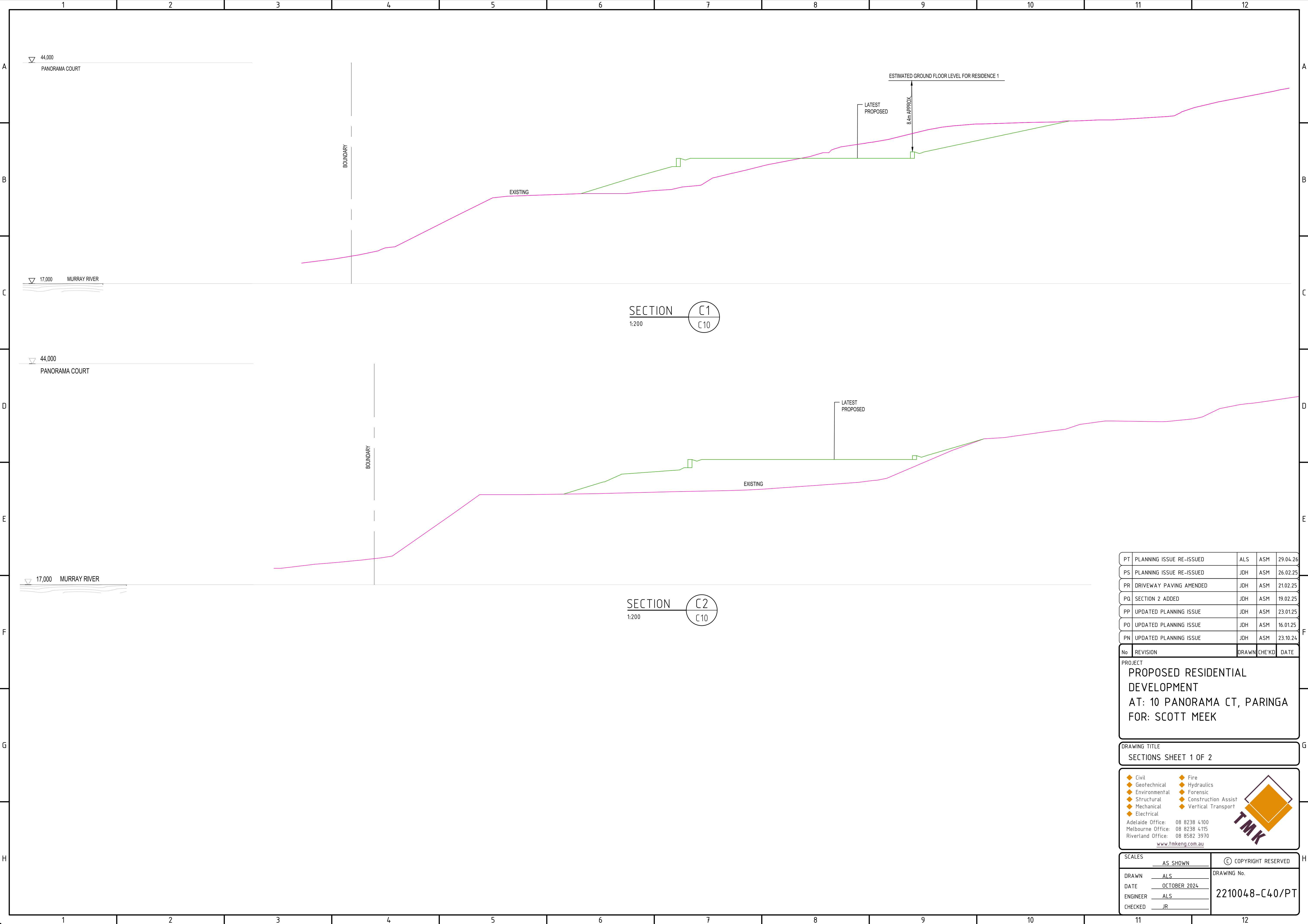
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PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
AT: 10 PANORAMA CT, PARINGA
FOR: SCOTT MEEK

DRAWING TITLE
DETAILS & NOTES

- Civil - Geotechnical - Environmental - Structural - Mechanical - Electrical	- Fire - Hydraulics - Forensic - Construction Assist - Vertical Transport
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PROJECT
PROPOSED RESIDENTIAL
DEVELOPMENT
AT: 10 PANORAMA CT, PARINGA
FOR: SCOTT MEEK

DRAWING TITLE
SECTIONS SHEET 1 OF 2

◆ Civil

◆ Geotechnical

◆ Environmental

◆ Structural

◆ Mechanical

◆ Electrical

◆ Fire

◆ Hydraulics

◆ Forensic

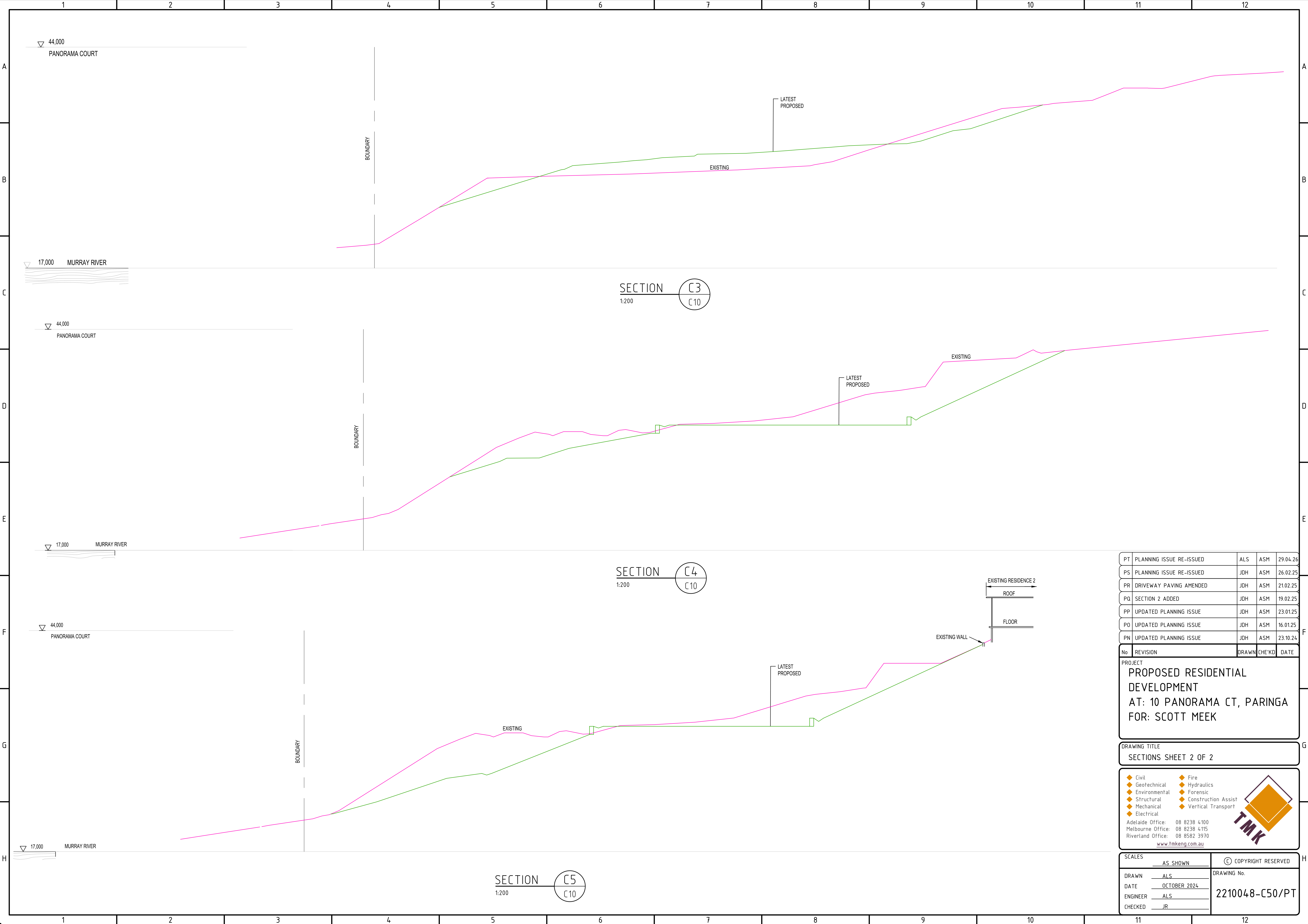
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PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
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FOR: SCOTT MEEK

DRAWING TITLE
SECTIONS SHEET 2 OF 2

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◆ Geotechnical

◆ Environmental

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◆ Electrical

◆ Fire

◆ Hydraulics

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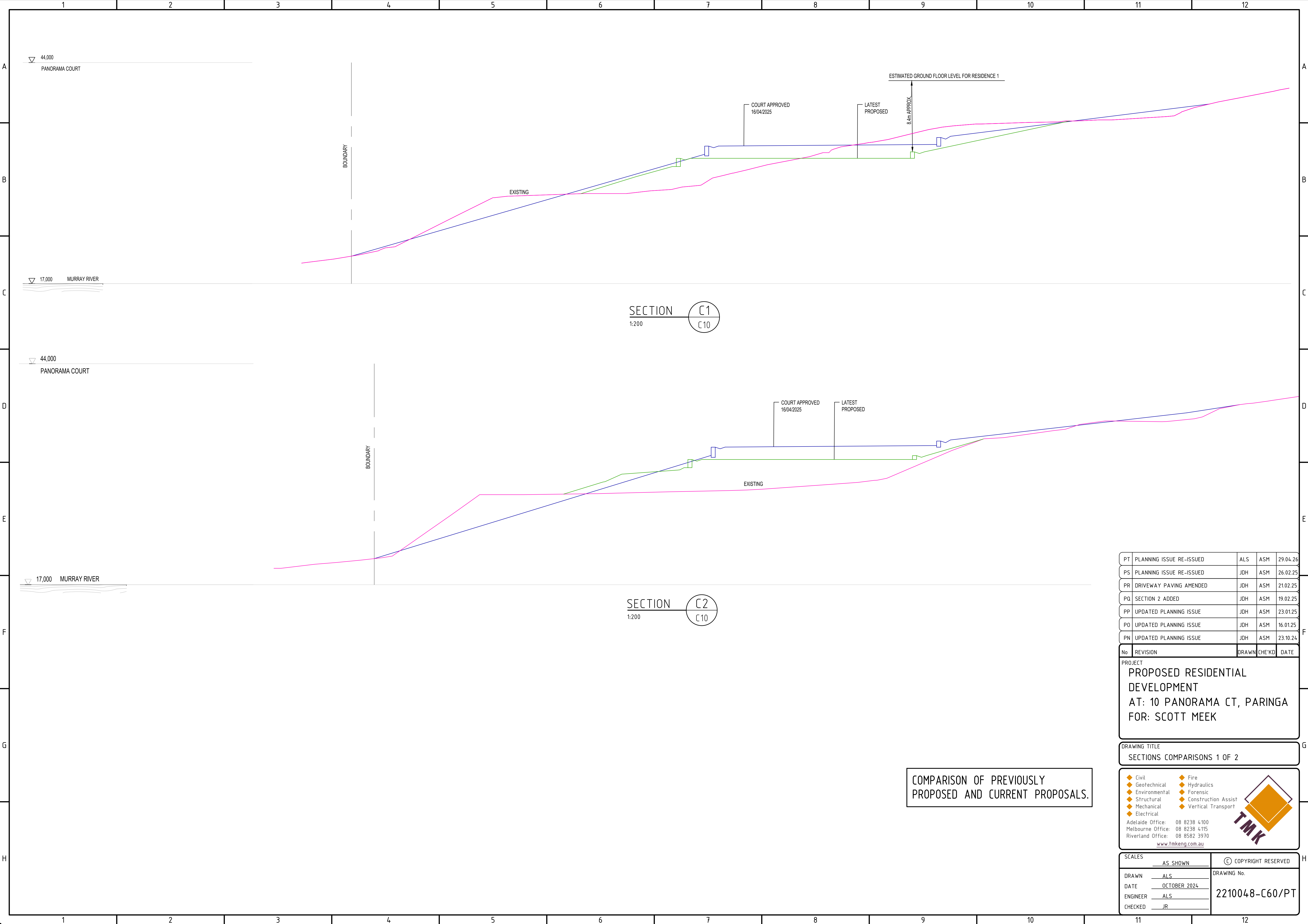
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SECTION C1
1:200

SECTION C2
1:200

COMPARISON OF PREVIOUSLY
PROPOSED AND CURRENT PROPOSALS.

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PROJECT
PROPOSED RESIDENTIAL
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AT: 10 PANORAMA CT, PARINGA
FOR: SCOTT MEEK

DRAWING TITLE
SECTIONS COMPARISONS 1 OF 2

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Geotechnical

Environmental

Structural

Mechanical

Electrical

Fire

Hydraulics

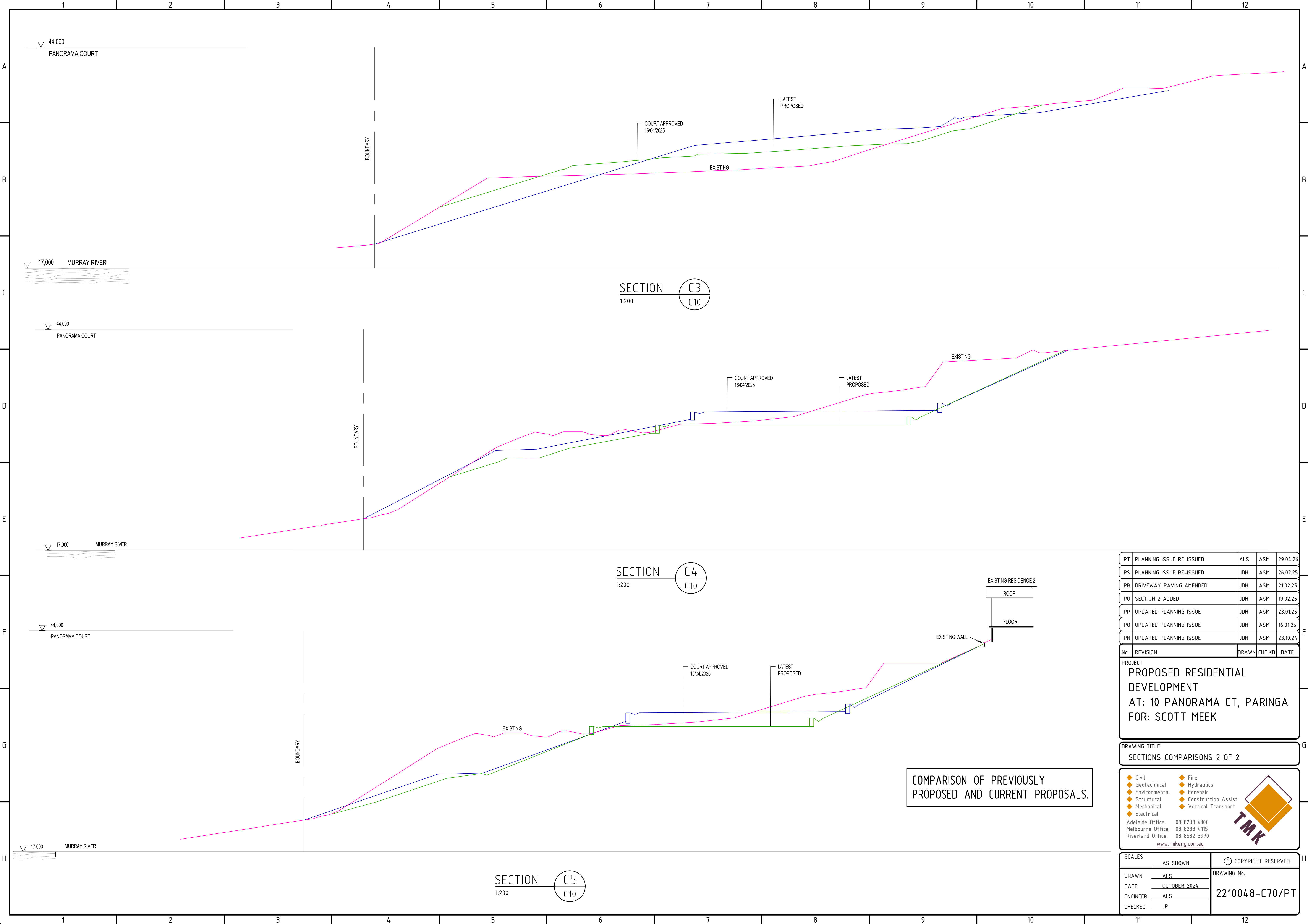
Forensic

Construction Assist

Vertical Transport

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PROJECT
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FOR: SCOTT MEEK

DRAWING TITLE
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◆ Geotechnical

◆ Environmental

◆ Structural

◆ Mechanical

◆ Electrical

◆ Fire

◆ Hydraulics

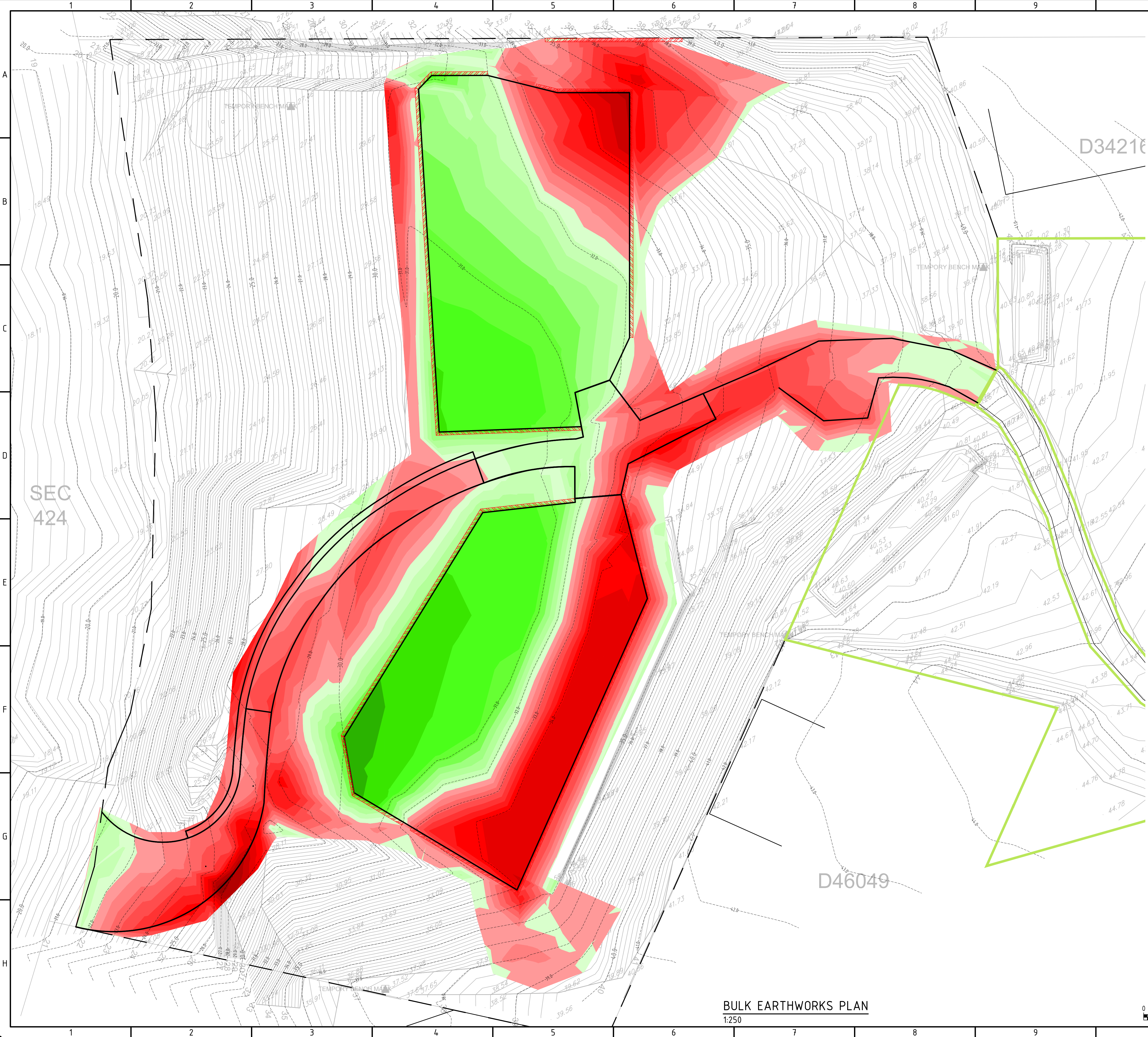
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ESTIMATED BALANCE BULK EARTHWORKS SUMMARY

(existing natural surface to finished level)

BULK CUT (-)	=	APPROX. 2,47m ³
BULK FILL (+)	=	APPROX. 2,46m ³
BULK CUT/FILL BALANCE	=	APPROX. -4m ³

- NOTE:**
- BULK EARTHWORKS VOLUMES DO NOT INCLUDE:
- BULKING FACTORS OF SOIL
 - TRENCHING SPOIL ASSOCIATED WITH SEWER, WATER, STORMWATER OR OTHER SERVICES
 - RETAINING WALLS & FOOTINGS
 - WORKS ASSOCIATED WITH TREE REMOVAL (BACKFILL)
 - STOCKPILES
 - LATENT ISSUES

- BULK EARTHWORKS VOLUMES INCLUDE:
- PAVEMENTS
 - LANDSCAPING / TOP SOIL

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WARNING

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SURFACE ANALYSIS - ELEVATION RANGES				
RANGE#	COLOR	MIN. ELEVATION (m)	MAX. ELEVATION (m)	VOLUME (m ³)
1		-3.250	-3.000	15
2		-3.000	-2.750	4.3
3		-2.750	-2.500	3.5
4		-2.500	-2.250	4.9
5		-2.250	-2.000	55.8
6		-2.000	-1.750	1213
7		-1.750	-1.500	172.4
8		-1.500	-1.250	536.1
9		-1.250	-1.000	530.5
10		-1.000	-0.750	442.1
11		-0.750	-0.500	367.3
12		-0.500	-0.250	398.9
13		-0.250	0.000	549.3
14		0.000	0.250	517.2
15		0.250	0.500	316.1
16		0.500	0.750	319.6
17		0.750	1.000	356.6
18		1.000	1.250	279.3
19		1.250	1.500	225.1
20		1.500	1.750	166.4
21		1.750	2.000	292.1
22		2.000	2.250	290.6
23		2.250	2.500	49.8
24		2.500	2.750	0.5

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No	REVISION	DRAWN	CHEK'D	DATE

PROJECT

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AT: 10 PANORAMA CT, PARINGA
FOR: SCOTT MEEK

DRAWING TITLE

CIVIL BULK EARTHWORKS PLAN

◆ Civil

◆ Geotechnical

◆ Environmental

◆ Structural

◆ Mechanical

◆ Electrical

◆ Fire

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◆ Forensic

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