

Our Reference: 10156745

13 May 2024

Morgan Cole  
DPM Consulting Group  
22 Business Park Drive  
Notting Hill Vic 3168



Dear Morgan

### **PA2015/4832 - Modeina Estate Stage 32 - Engineering Plans - Approval Letter**

The above-mentioned plans, received by Council under the Planning Permit on 2 May 2024, are approved. Please find attached the approved stamped Road & Drainage Plans.

Council believes the list below represents the latest amended engineering plan submission:

<b>Drawing No.</b>	<b>Sheet No.</b>	<b>Revision No.</b>
1275/32/NE	01-03	C1
1275/32/NE	04-05	C2
1275/32/NE	06-16	C1

The approval is subject to compliance of all statutory and legal obligations and granted with the understanding that the engineering consultant, developer and landowner take full responsibility for the design contained in the conditionally approved engineering plans.

#### **Please note the following:**

- The approval of these plans is valid for one year. Where construction does not commence within that time, the plans must be resubmitted to Council for assessment using applicable engineering standards at the time of resubmission. New plan checking fees will also be applicable.
- No construction works can commence outside the development's property boundaries unless or until consent is provided by the adjoining landowner.
- A 'Consent to Work Within a Road Reserve' must be applied for. The form is available on Melton Council's website link.  
<https://www.melton.vic.gov.au/Services/Building-Planning-Transport/Engineering/Engineering-applications>
- A 'Consent to Work Within a Road Reserve' must be applied for where works will be done on an existing road. The form is available on Melton Council's website link  
<https://www.melton.vic.gov.au/Services/Building-Planning-Transport/Engineering/Engineering-applications>
- A Traffic Management Plan must be submitted where works will occur on existing roads, and where the works are traffic impact works, it must be approved by Council's Traffic team before works commence. The form is available on Melton Council's website link  
<https://www.melton.vic.gov.au/Services/Building-Planning-Transport/Engineering/Engineering-applications>

- Construction works must not commence on site until all relevant planning permit conditions have been satisfied. Email queries to [planningsupport@melton.vic.gov.au](mailto:planningsupport@melton.vic.gov.au) T: 9747 7200.
- All Service Authority plans must be approved by the responsible authorities prior to the subbase of the road pavement being constructed. Included plans are:
  - Water main reticulation plans including the location and capacity (pressure and flow) of fire hydrants and hydrant mains,
  - Sewer main reticulation plans,
  - Recycled water reticulation plans (where applicable),
  - Public Lighting plans, utilising Public Lighting Guidelines and form on [www.melton.vic.gov.au/Infrastructure-Planning](http://www.melton.vic.gov.au/Infrastructure-Planning); and
  - Other relevant service plans, as applicable.

The above plans must be submitted in PDF format (one email per type of plan) to [serviceauthority@melton.vic.gov.au](mailto:serviceauthority@melton.vic.gov.au).

- If required as part of the planning permit conditions for the above-mentioned project, Construction Environmental Management plans (CEMP) must be submitted to Council *prior* to requesting a Civil Works pre-commencement meeting. Please note that plans should:
  - Include Planning Permit Application and Planning Permit Condition # - PA2015/4832.
  - Adhere to requirements of endorsed planning permit conditions.
  - Be simply presented and easy to understand.
  - Include an overall site context plan which shows where the site is located .  
*e.g. roads labelled*
  - Address all relevant environmental risks of the works.
  - Include haulage route.
  - **Include statements:**
    - A water truck will be available for dust suppression on site *at all times* and at the direction of the Council Construction Supervisor.
    - Working hours will be 7.00am or sunrise, whichever is the latter to 5.00pm weekdays.
  - Exclude any reference to use of straw bales, as not best practice.
  - Be In PDF format (to appropriate scale) from original document.

**Note:** do not scan document into PDF, as can be illegible.

Please submit CEMP with relevant information to email: [emp@melton.vic.gov.au](mailto:emp@melton.vic.gov.au).

- A Pre-commencement Meeting Application must be emailed to Council to request approval to start work via email: [construction@melton.vic.gov.au](mailto:construction@melton.vic.gov.au).
- As Constructed (As Con) plans must be received by Council prior to requesting a Practical Completion (PC) Inspection. To proceed, submit a PC Application form to email: [construction@melton.vic.gov.au](mailto:construction@melton.vic.gov.au).

- Where required by planning permit conditions, A-SPEC digital data should be submitted and *verified* as correct by Council's Asset Management/GIS team prior to the Statement of Compliance (SOC) being issued. A-SPEC data can be submitted via Melton's ACDC portal or by email. Contact [assetspecs@melton.vic.gov.au](mailto:assetspecs@melton.vic.gov.au) for more information.
- Submit A-Spec data to email: [assetspecs@melton.vic.gov.au](mailto:assetspecs@melton.vic.gov.au).

All correspondence submitted to Council must include a covering letter detailing:

- ✓ Full business name, address, contact name, email and telephone number for responses,
- ✓ Planning Application Number (PA2015/4832),
- ✓ Estate name and Stage # or Project Name and address,
- ✓ Description of submission (e.g. Construction Environmental Management Plan) and any changes/ response to prior Council correspondence.

Submissions should follow processes outlined above and utilise forms on website [www.melton.vic.gov.au/Infrastructure-Planning](http://www.melton.vic.gov.au/Infrastructure-Planning) unless another web link is listed.

Should you have any queries, please contact me at email: [paul.kodikara@melton.vic.gov.au](mailto:paul.kodikara@melton.vic.gov.au) or T: 9747 2772.

Regards,



Paul Kodikara

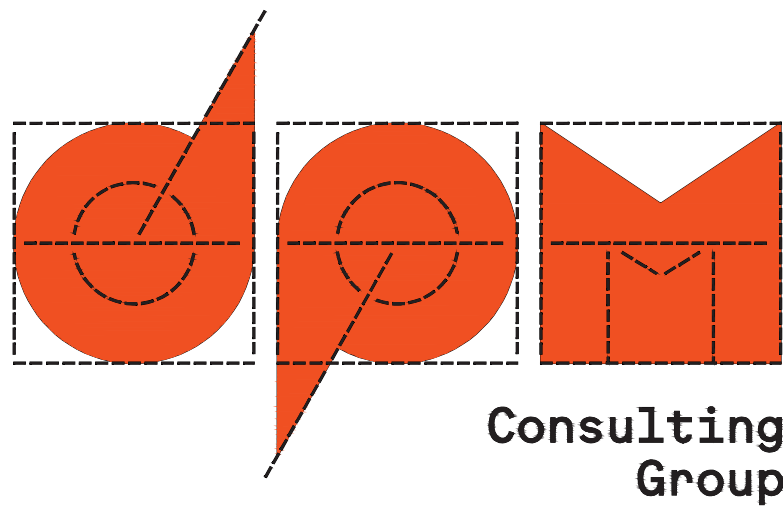
**DEVELOPMENT ENGINEER**

# MODEINA STAGE 32

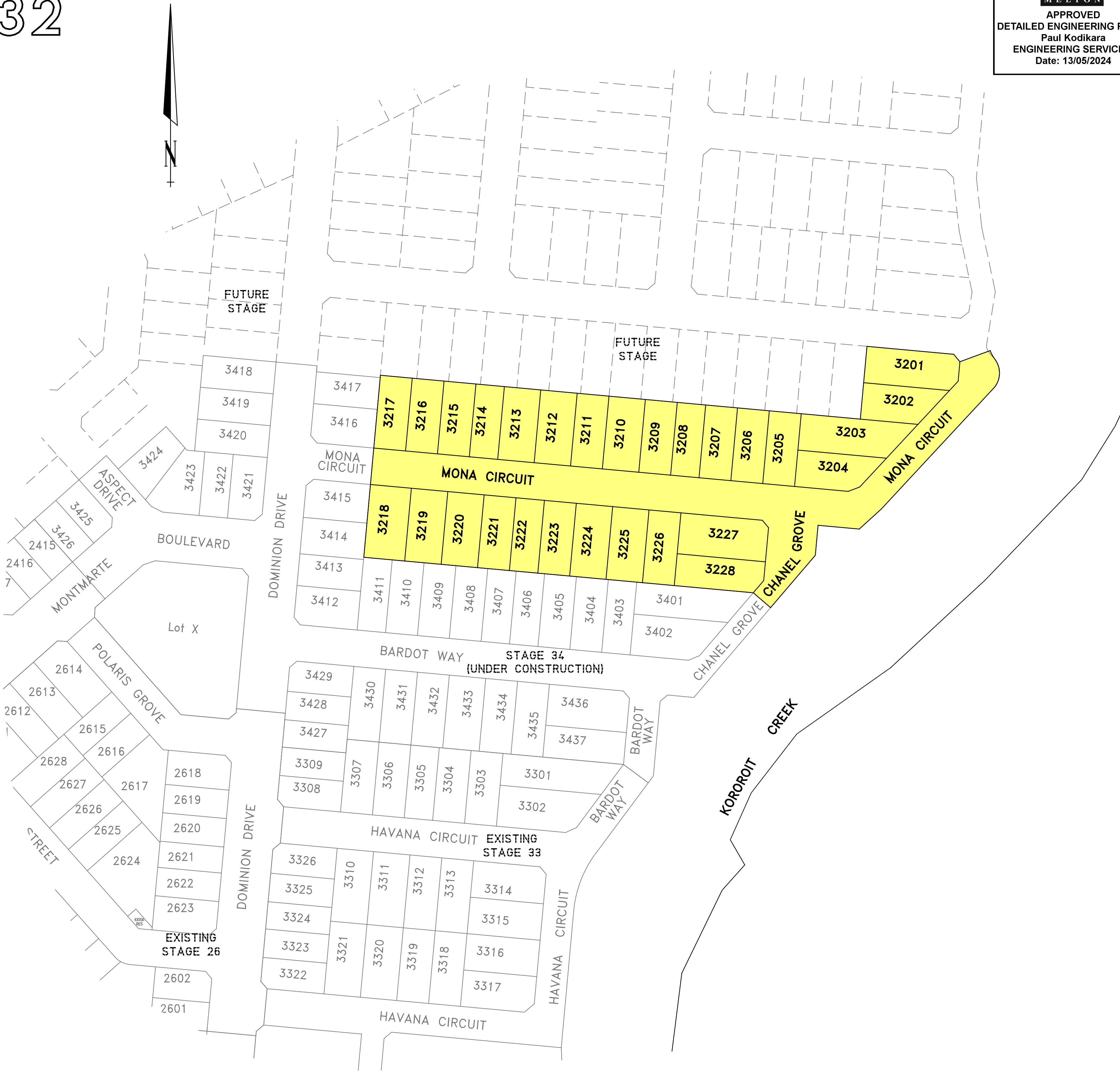
## ROAD AND DRAINAGE

CITY OF MELTON

22 Business Park Drive Notting Hill 3168  
A.C.N. 006 550 803  
E: consulting@dpmvic.com.au  
W: www.dpmvic.com.au  
T: (03) 9538 5000



DRAWING INDEX	
DRAWING NO	DETAILS
1275/32/NE/01	COVER PAGE
1275/32/NE/02	LAYOUT PLAN & SERVICE OFFSET TABLE
1275/32/NE/03	INTERSECTION DETAILS SHEET 1 OF 3
1275/32/NE/04	INTERSECTION DETAILS SHEET 2 OF 3
1275/32/NE/05	INTERSECTION DETAILS SHEET 3 OF 3
1275/32/NE/06	TYPICAL SECTIONS
1275/32/NE/07	NOTES AND MISCELLANEOUS DETAILS
1275/32/NE/08	PAVEMENT PROFILE
1275/32/NE/09	CHANEL GROVE LONGITUDINAL SECTIONS
1275/32/NE/10	CHANEL GROVE CROSS SECTIONS
1275/32/NE/11	MONA CIRCUIT LONGITUDINAL SECTIONS
1275/32/NE/12	MONA CIRCUIT CROSS SECTIONS SHEET 1 OF 2
1275/32/NE/13	MONA CIRCUIT CROSS SECTIONS SHEET 2 OF 2
1275/32/NE/14	DRAINAGE LONGITUDINAL SECTIONS
1275/32/NE/15	DRAINAGE LONGITUDINAL SECTION AND PIT SCHEDULES
1275/32/NE/16	LINEMARKINGS AND SIGN SCHEDULES



FOR CONSTRUCTION



SERVICES OFFSET TABLE

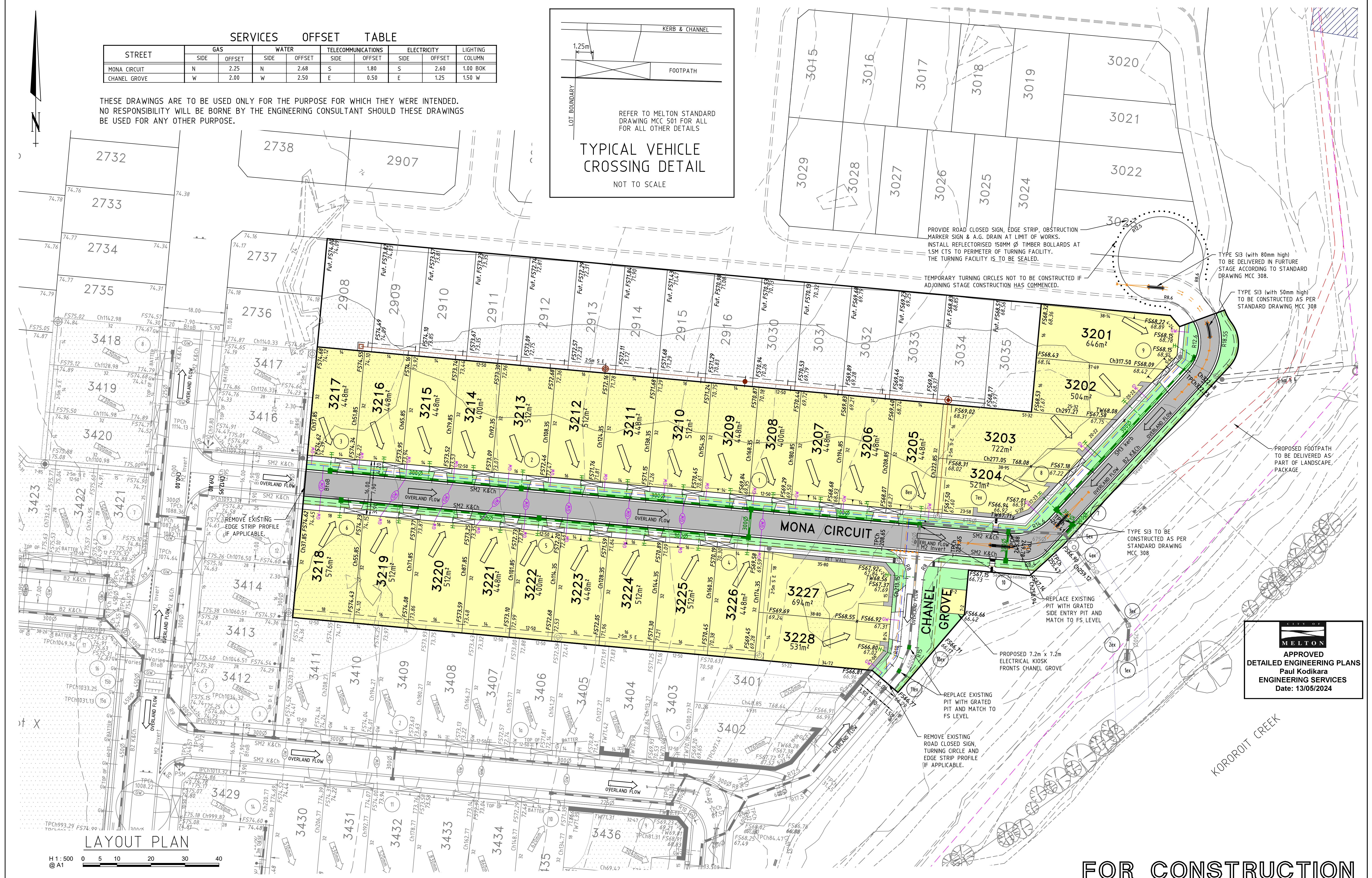
STREET	GAS		WATER		TELECOMMUNICATIONS		ELECTRICITY		LIGHTING
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	
MONA CIRCUIT	N	2.25	N	2.68	S	1.80	S	2.60	1.00 BOK
CHANEL GROVE	W	2.00	W	2.50	E	0.50	E	1.25	1.50 W

THESE DRAWINGS ARE TO BE USED ONLY FOR THE PURPOSE FOR WHICH THEY WERE INTENDED. NO RESPONSIBILITY WILL BE BORNE BY THE ENGINEERING CONSULTANT SHOULD THESE DRAWINGS BE USED FOR ANY OTHER PURPOSE.

REFER TO MELTON STANDARD DRAWING MCC 501 FOR ALL FOR ALL OTHER DETAILS

TYPICAL VEHICLE CROSSING DETAIL

NOT TO SCALE



LAYOUT PLAN

H 1:500  
@ A1

FOR CONSTRUCTION

REV.	REVISION	DATE	APPD.
C1	ISSUED FOR CONSTRUCTION	26-03-2024	M.C.

LEGEND	LEGEND	LEGEND
<ul style="list-style-type: none"> <li>GAS MAIN</li> <li>WATER MAIN</li> <li>RECYCLED WATER MAIN</li> <li>ELECTRICITY CABLE</li> <li>TELECOMMUNICATIONS CABLE</li> <li>WATER CONDUIT</li> <li>GAS CONDUIT</li> <li>RECYCLED WATER CONDUIT</li> <li>COMBINED SERVICES CONDUIT</li> </ul>	<ul style="list-style-type: none"> <li>HOUSE DRAIN PROPOSED/EX.</li> <li>PROPERTY INLET, DRAINAGE PITS</li> <li>EX/FUT. INLET, DRAINAGE PITS</li> <li>DRAINAGE PIT STAGE/NUMBER</li> <li>SEWER LINE AND STRUCTURES</li> <li>EX/SEWER LINE AND STRUCTURES</li> <li>KERB AND CHANNEL</li> <li>EX/FUT. KERB AND CHANNEL</li> <li>KERB TO BE REMOVED OFFSITE</li> <li>STREET SIGN</li> </ul>	<ul style="list-style-type: none"> <li>CHAINAGES AND TANGENT POINTS</li> <li>EXISTING SURFACE LEVEL</li> <li>FINISHED LEVEL (TITLE BOUNDARY)</li> <li>DESIGN TOP/TOE OF BATTER LEVEL</li> <li>DESIGN PAVEMENT LEVEL</li> <li>PROPOSED CONTOUR LINE &amp; LEVEL</li> <li>EXISTING CONTOUR LINE &amp; LEVEL</li> <li>FILLING IN EXCESS OF 200mm</li> <li>CATCH DRAIN AND INVERT LEVEL</li> <li>EX. BATTER</li> <li>PROP. BATTER</li> </ul>

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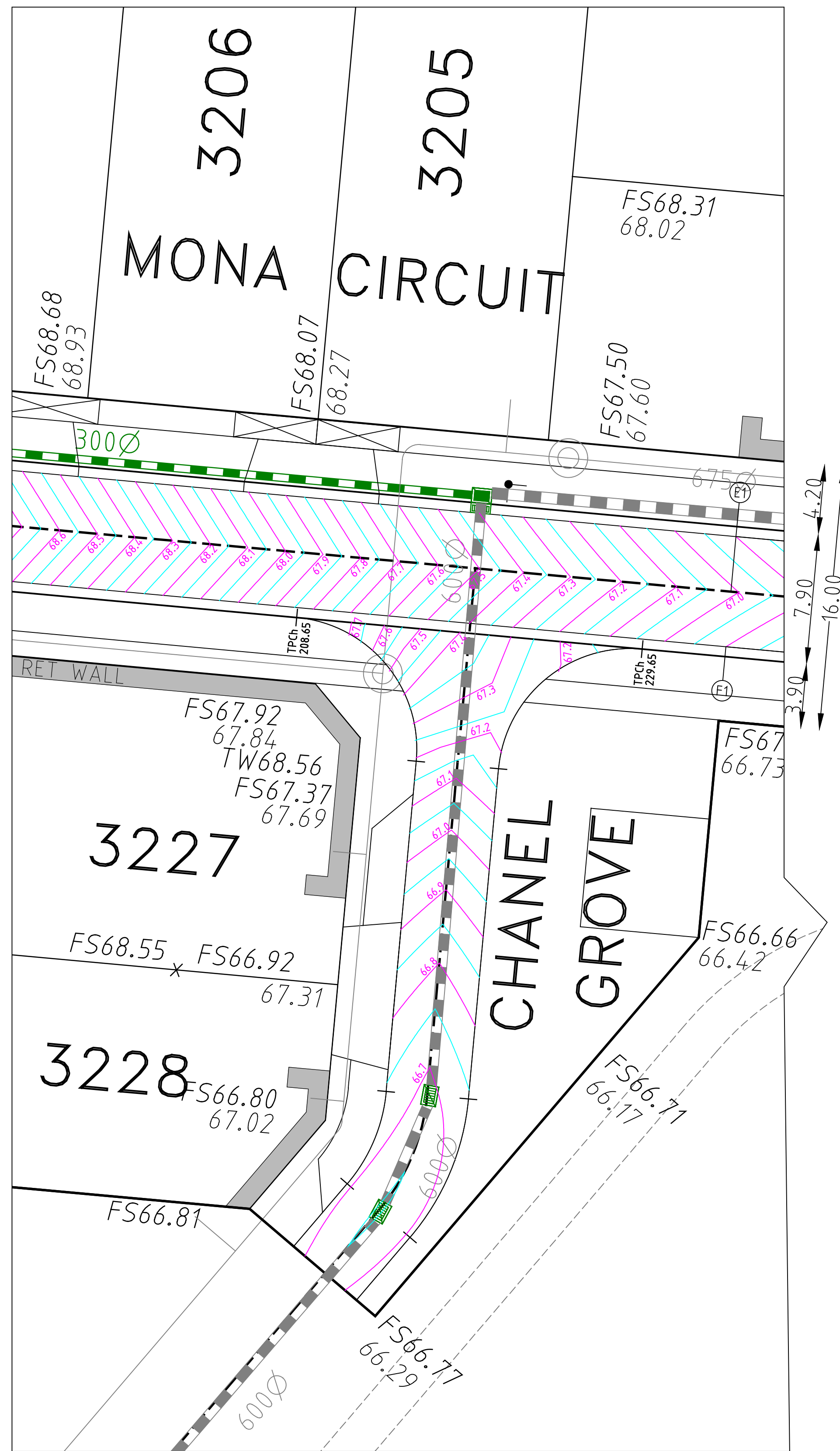
DRAWN:	K.PHUNG
DESIGNED:	K.PHUNG
CHECKED:	M.COILE
AUTHORISED:	L.PAPAZOIS
DATE:	28-09-2023

AUTHORITY:	CITY OF MELTON
PROJECT:	MODEINA STAGE 32 ROAD AND DRAINAGE
DETAILS:	LAYOUT PLAN & SERVICE OFFSET TABLE

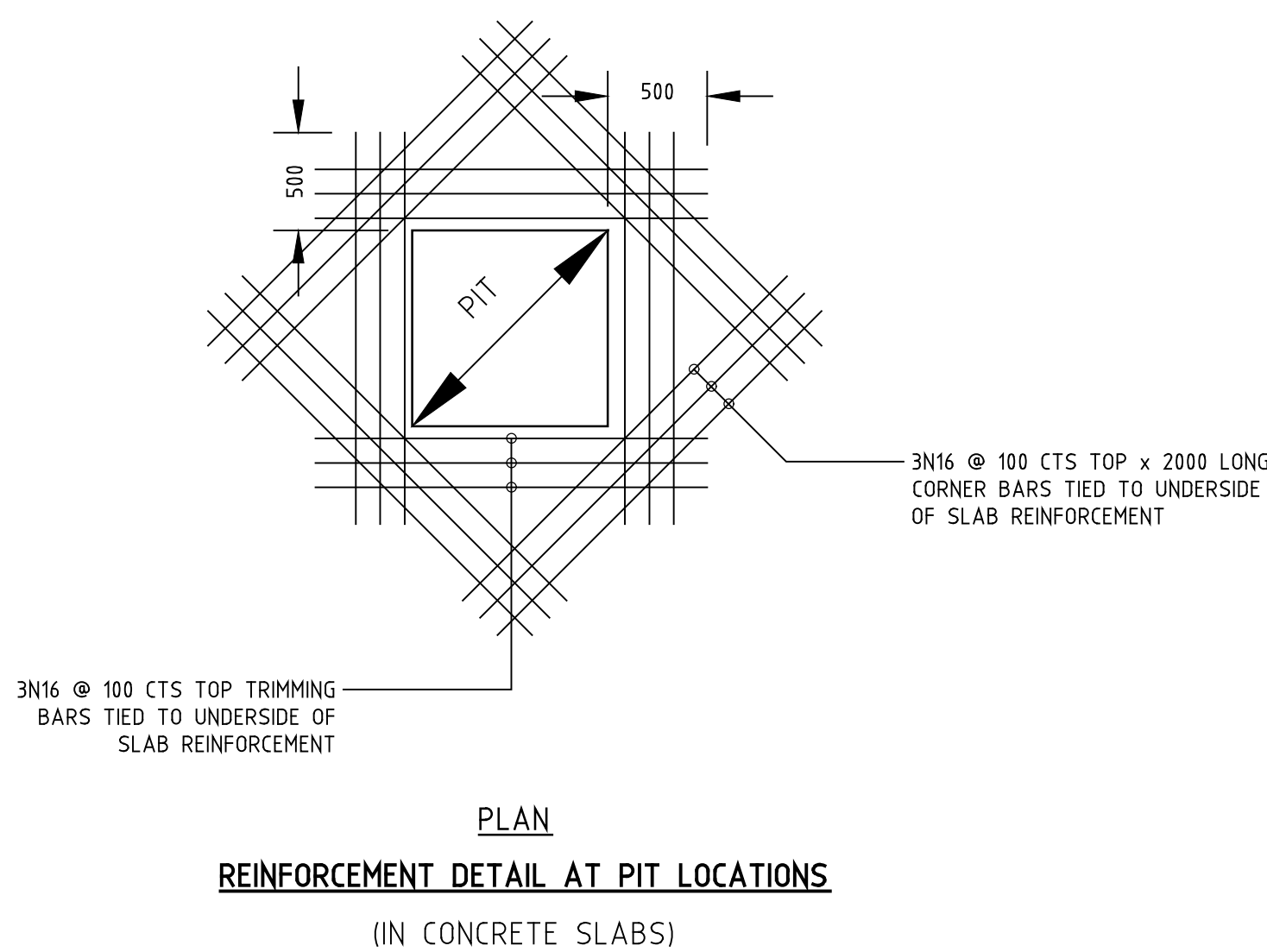
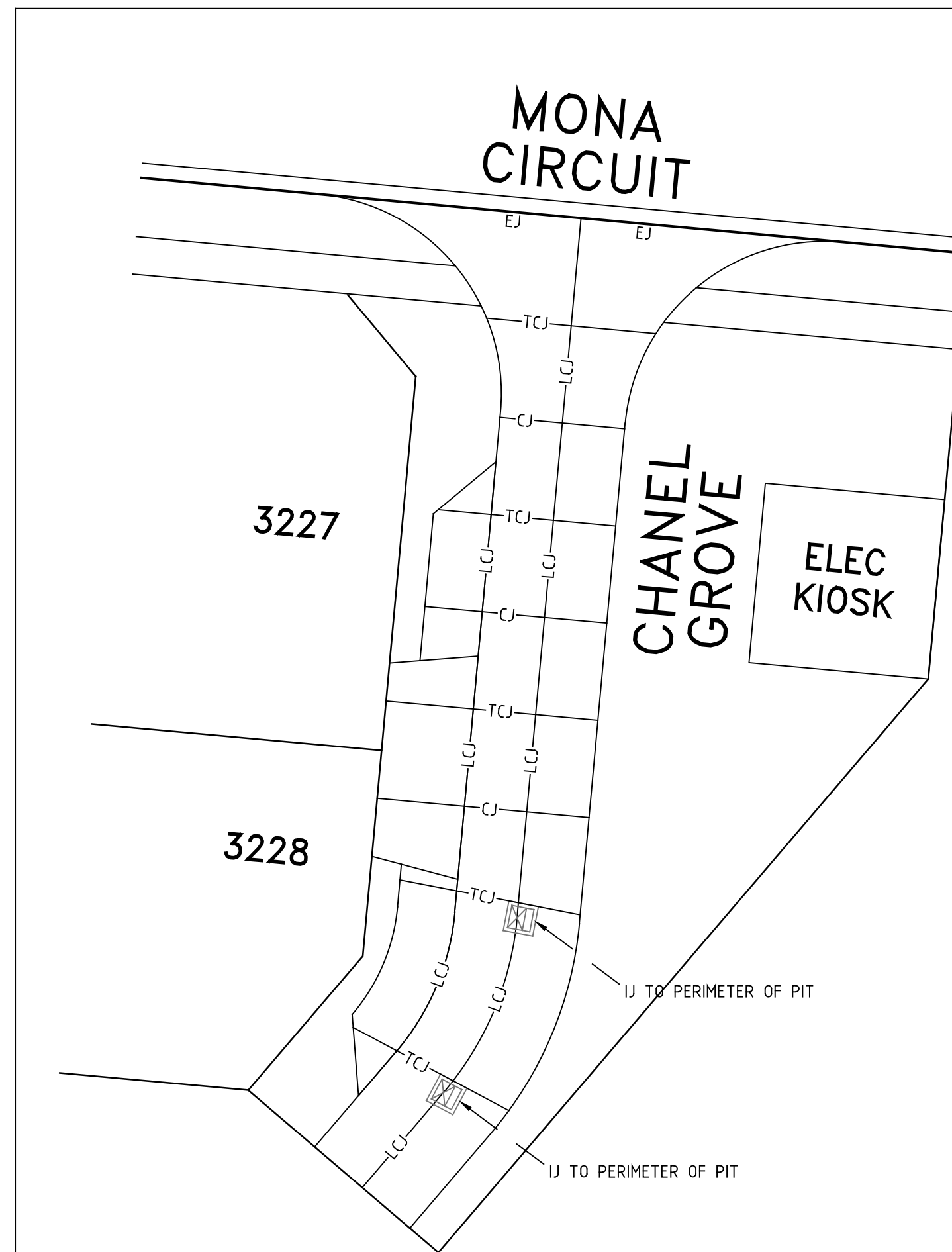
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LEVEL DATUM	AHD
SHEET	2 OF 16
DRAWING No.	1275/32/NE/02
REV.	C1

APPROVED  
DETAILED ENGINEERING PLANS  
Paul Kodikara  
ENGINEERING SERVICES  
Date: 13/05/2024





INTERSECTION DETAIL  
SCALE 1:200



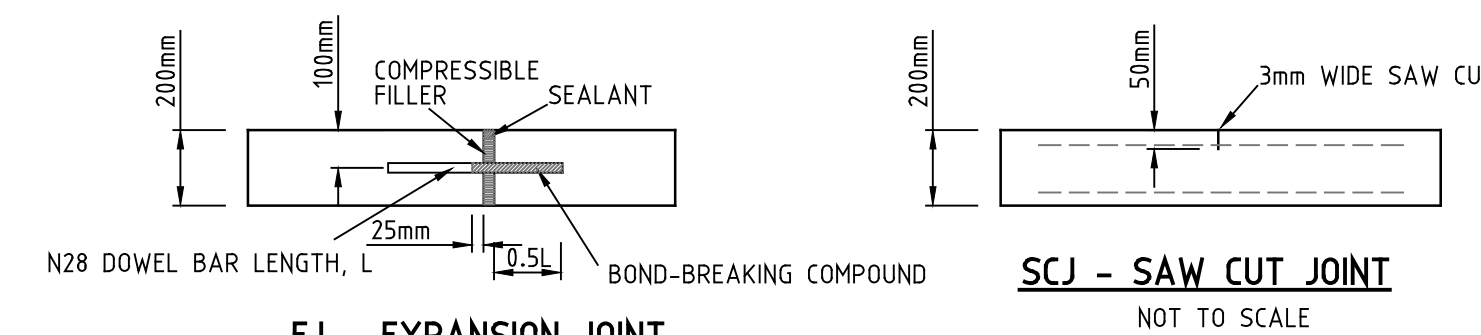
PLAN  
REINFORCEMENT DETAIL AT PIT LOCATIONS  
(IN CONCRETE SLABS)

CONCRETE JOINTING DETAIL  
SCALE 1:200

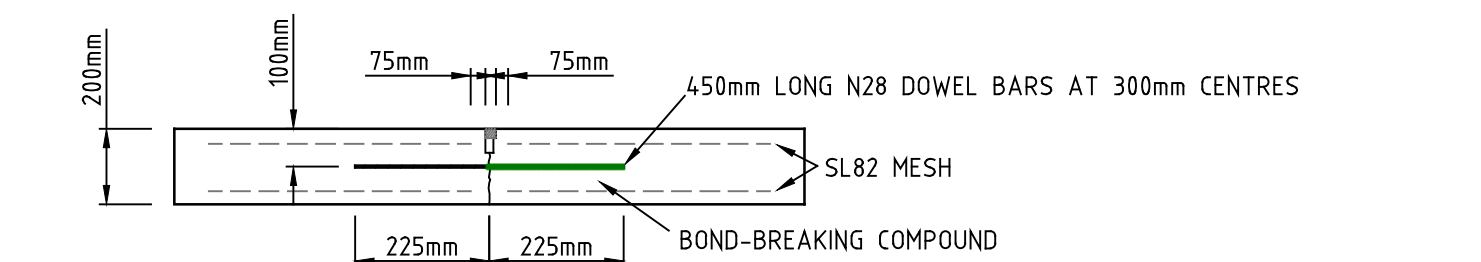
#### LEGEND

- TCJ - TCJ - TRANSVERSE CONTRACTION JOINT AS PER DETAIL
- LCJ - LCJ - LONGITUDINAL CONTRACTION JOINT AS PER DETAIL
- IJ - IJ - ISOLATION JOINT
- CJ - CJ - TIED CONSTRUCTION JOINT
- EJ - EJ - EXPANSION JOINT

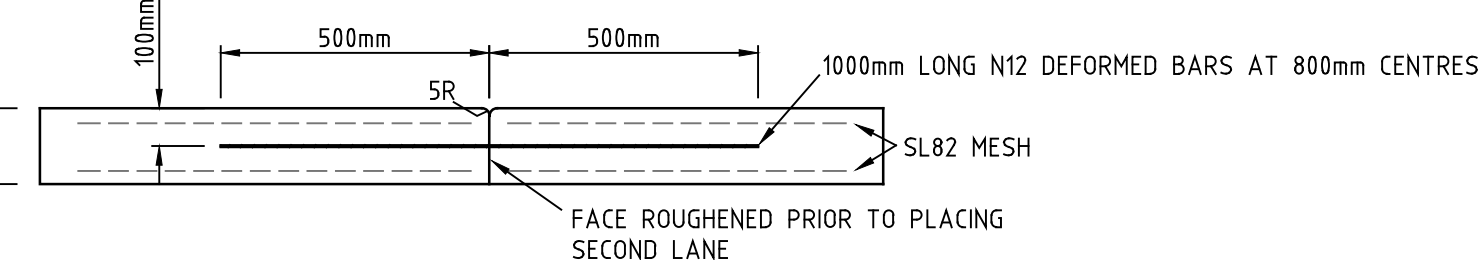
NOTE: CONSTRUCTION JOINTS ARE REQUIRED WHERE THERE IS A LAG TIME BETWEEN POURS. IF NO LAG OCCURS, THE CONSTRUCTION JOINTS CAN BE REPLACED BY SAW CUT JOINTS.



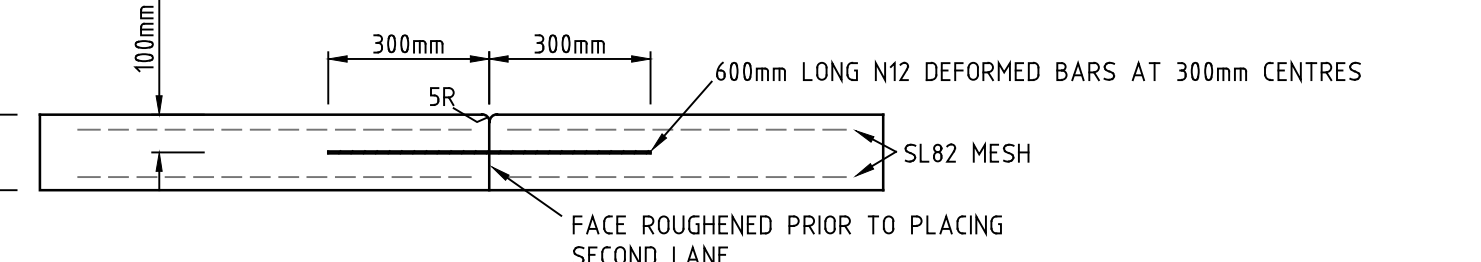
EJ - EXPANSION JOINT  
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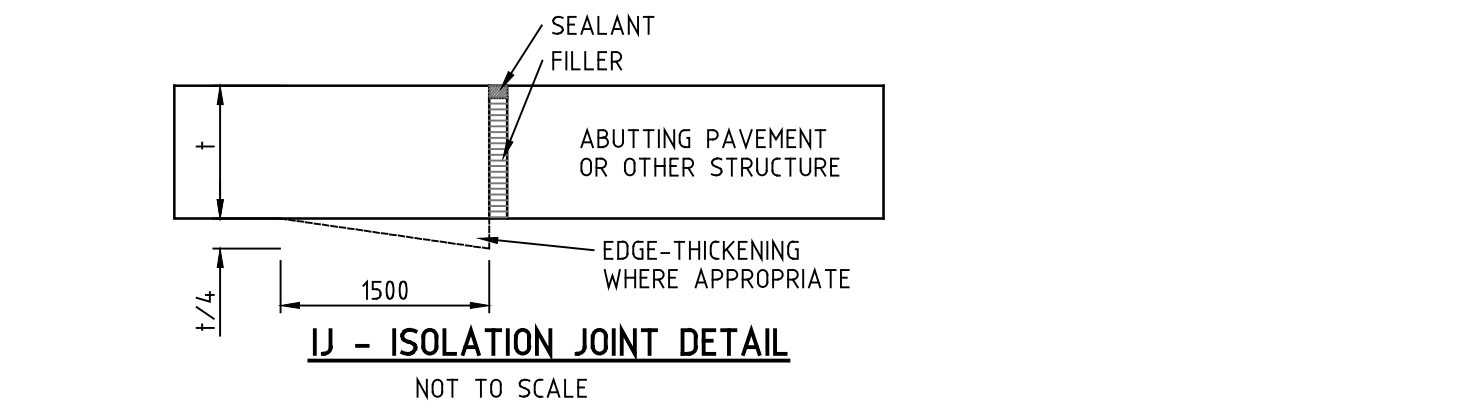
LCJ - LONGITUDINAL CONTRACTION JOINT DETAIL  
NOT TO SCALE



CJ - TIED CONSTRUCTION JOINT DETAIL  
NOT TO SCALE



IJ - ISOLATION JOINT DETAIL  
NOT TO SCALE

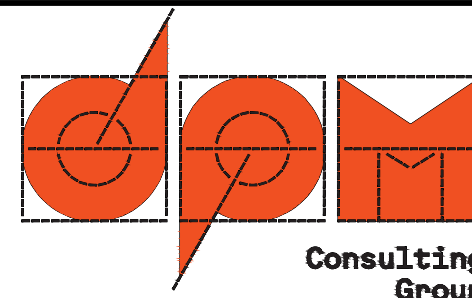


H 1 : 200  
@ A1

FOR CONSTRUCTION

REV.	REVISION	DATE	APPD.	LEGEND
-	-	-	-	GAS MAIN
-	-	-	-	WATER MAIN
-	-	-	-	RECYCLED WATER MAIN
-	-	-	-	ELECTRICITY CABLE
-	-	-	-	TELECOMMUNICATIONS CABLE
-	-	-	-	WATER CONDUIT
-	-	-	-	GAS CONDUIT
-	-	-	-	RECYCLED WATER CONDUIT
-	-	-	-	COMBINED SERVICES CONDUIT
C1	ISSUED FOR CONSTRUCTION	26-03-2024	M.C.	HOUSE DRAIN PROPOSED/EX.
				PROPERTY INLET, DRAINAGE PITS
				EX./FUT. INLET, DRAINAGE PITS
				DRAINAGE PIT STAGE/NUMBER
				SEWER LINE AND STRUCTURES
				EX. SEWER LINE AND STRUCTURES
				KERB AND CHANNEL
				EX./FUT. KERB AND CHANNEL
				KERB TO BE REMOVED OFFSITE
				STREET SIGN

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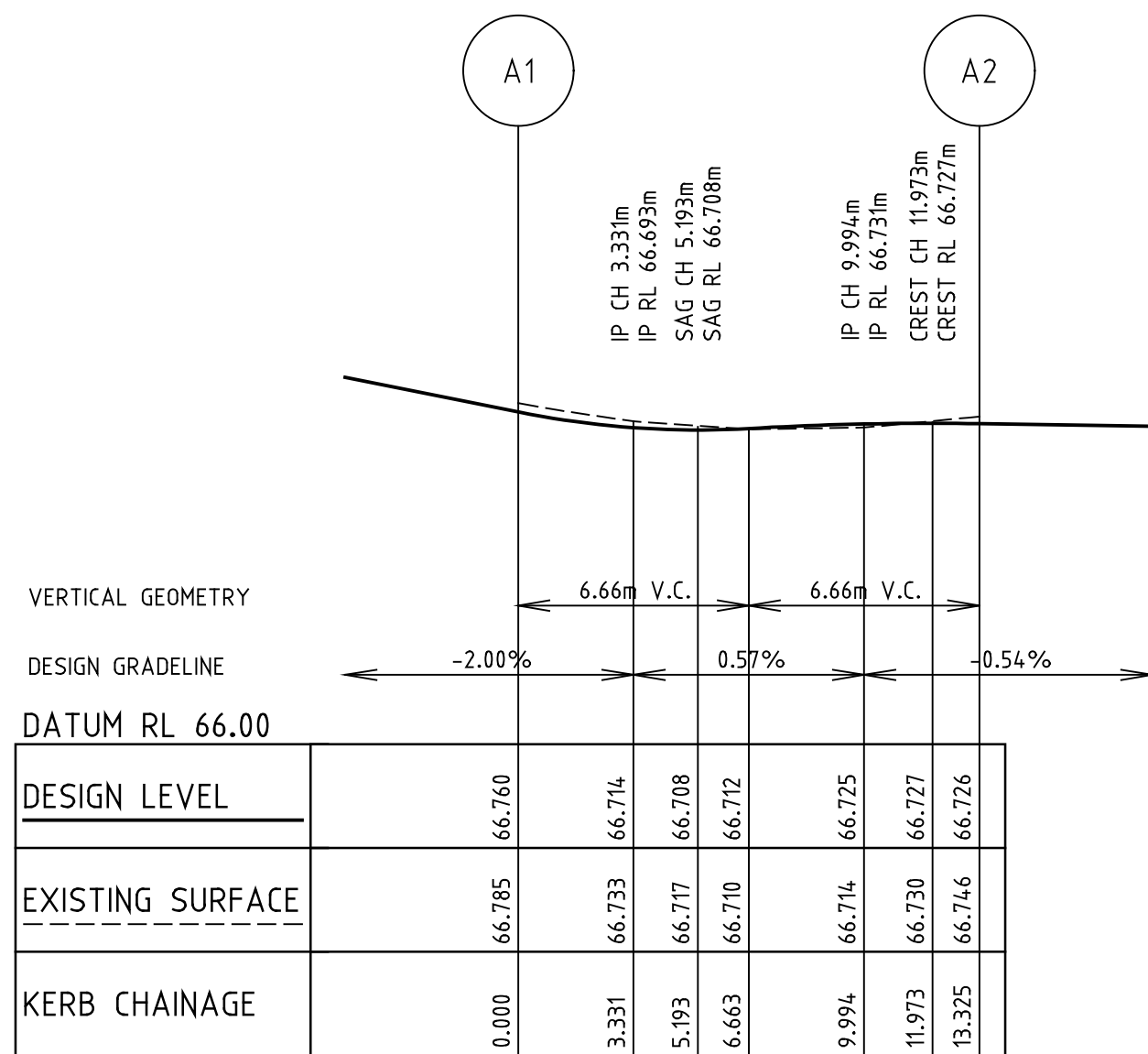
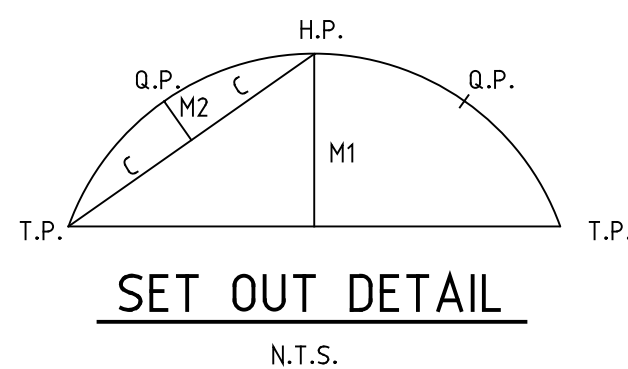


DRAWN: K.PHUNG  
DESIGNED: K.PHUNG  
CHECKED: M.COLE  
AUTHORISED: L.PAPAZOIS  
DATE: 28-09-2023

AUTHORITY: CITY OF MELTON  
PROJECT: MODEINA STAGE 32  
ROAD AND DRAINAGE  
DETAILS: INTERSECTION DETAILS SHEET 1 OF 3  
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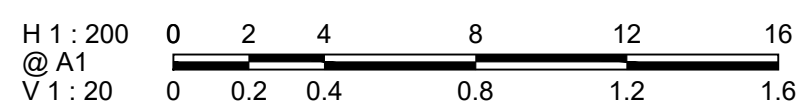
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LEVEL DATUM AHD  
SHEET 3 OF 16  
DRAWING No.  
1275/32/NE/03  
REV. C1





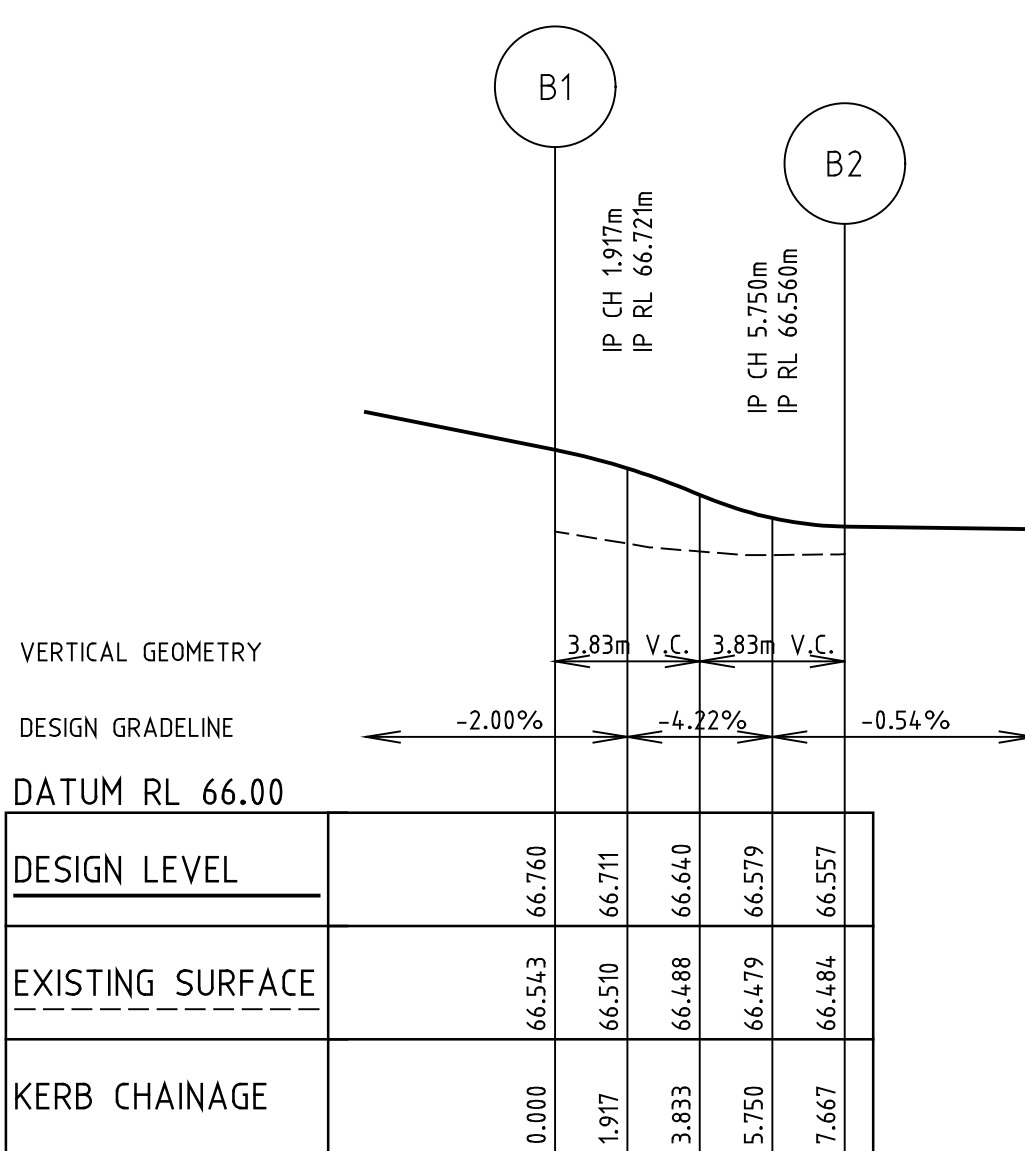
KERB LIP LINE A1 - A2

Horizontal scale 1:200  
Vertical scale 1:20



SET OUT DETAILS

RAD.	14.600
INT	52°17'35"
TAN	7.167
CHD	12.867
ARC	13.325
M1	1.494
M2	0.378



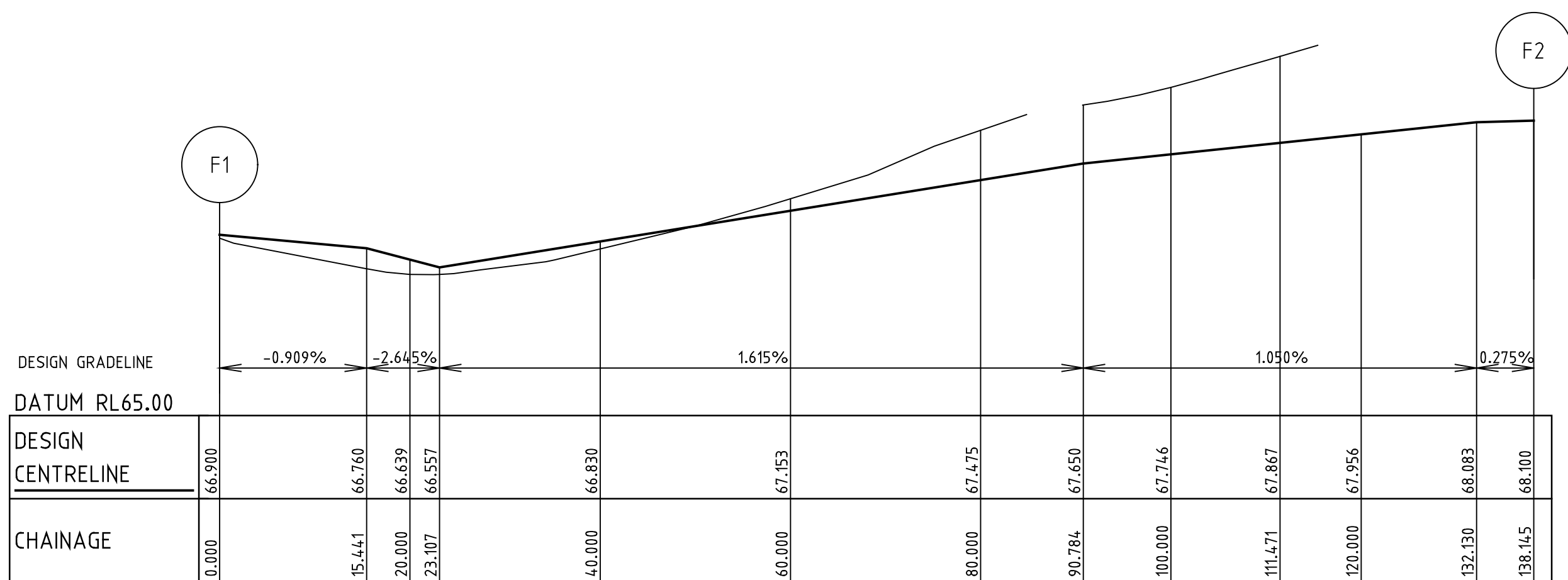
KERB LIP LINE B1 - B2

Horizontal scale 1:200  
Vertical scale 1:20



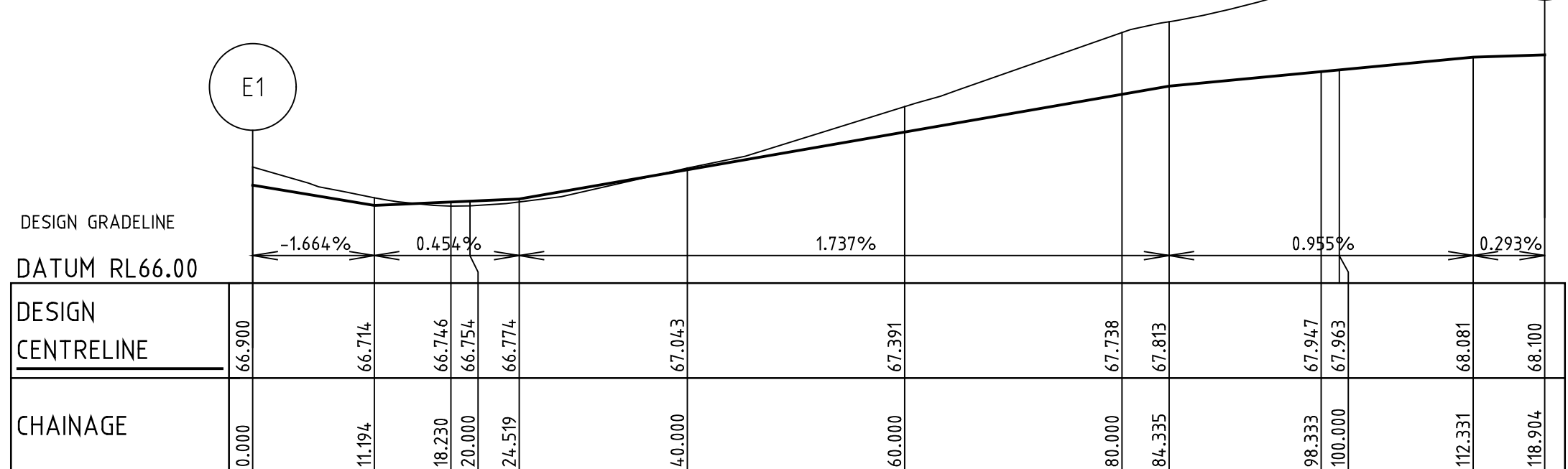
SET OUT DETAILS

RAD.	8.400
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TAN	4.124
CHD	7.403
ARC	7.667
M1	0.860
M2	0.218



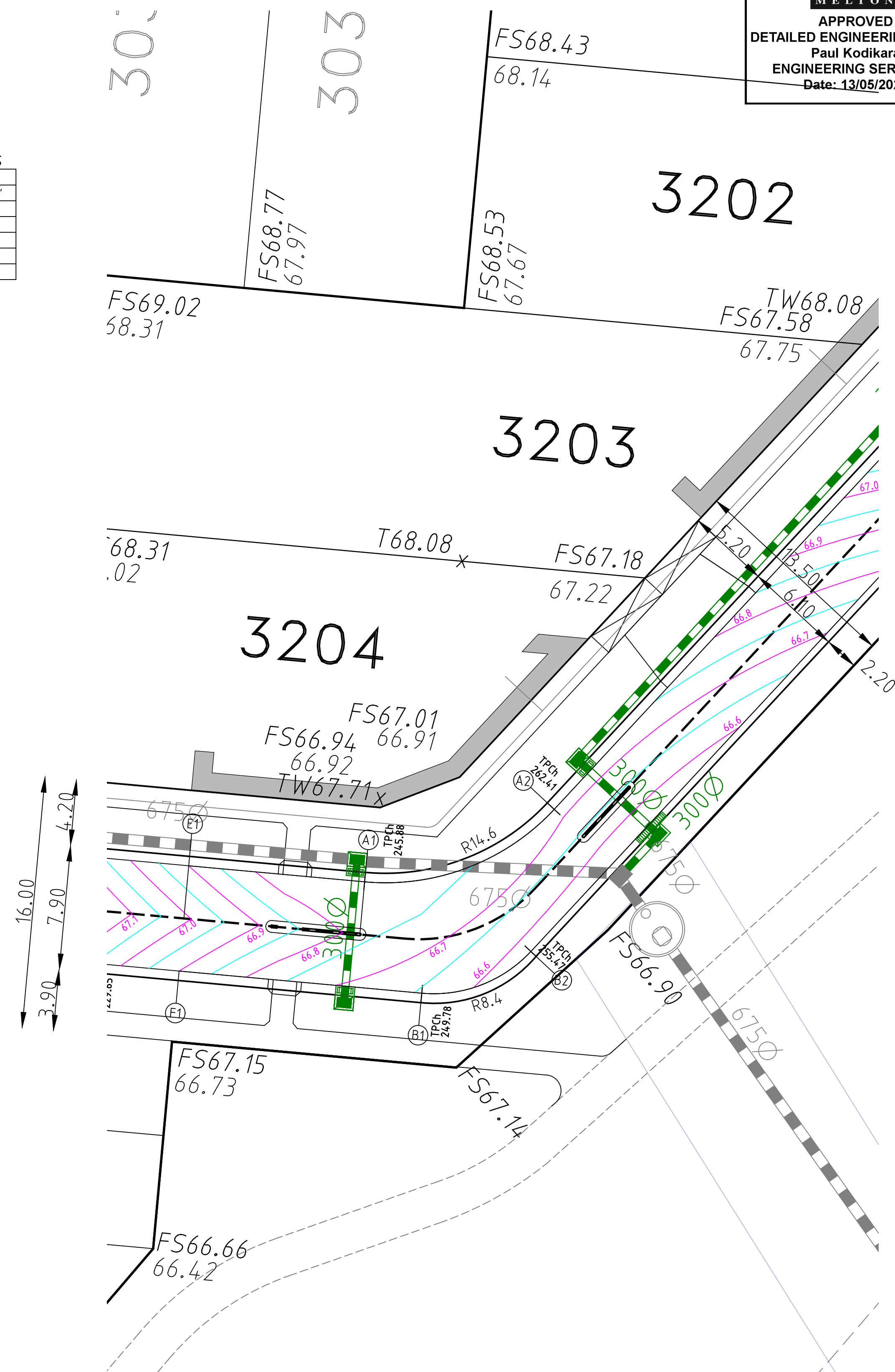
MONA CIRCUIT RIGHT LIP

Horizontal scale 1:500  
Vertical scale 1:50



MONA CIRCUIT LEFT LIP

Horizontal scale 1:500  
Vertical scale 1:50



INTERSECTION DETAILS

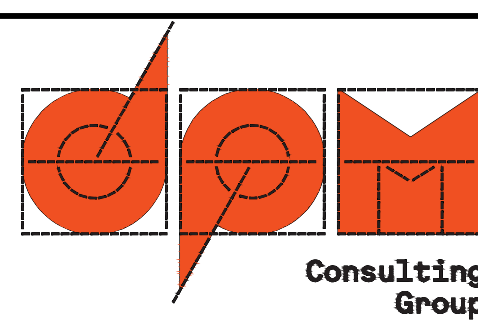
SCALE 1:200



FOR CONSTRUCTION

-	-	-	-	<b>LEGEND</b>						
-	-	-	-		GAS MAIN		HOUSE DRAIN PROPOSED/EX.		PROPOSED	CHAINAGES AND TANGENT POINTS
-	-	-	-		WATER MAIN		PROPERTY INLET, DRAINAGE PITS		20.06	EXISTING SURFACE LEVEL
-	-	-	-		RECYCLED WATER MAIN		EX./FUT. INLET, DRAINAGE PITS		FINISHED	LEVEL (TITLE BOUNDARY)
-	-	-	-		ELECTRICITY CABLE		DRAINAGE PIT STAGE/NUMBER		721.35	DESIGN TOP/TOE OF BATTER LEVEL
-	-	-	-		TELECOMMUNICATIONS CABLE		SEWER LINE AND STRUCTURES		P21.350	DESIGN PAVEMENT LEVEL
C2	ADD LIP LONG SECTIONS	01-05-2024	M.C.		WATER CONDUIT		EX./FUT. LINE AND STRUCTURES		P.25	PROPOSED CONTOUR LINE & LEVEL
C1	ISSUED FOR CONSTRUCTION	26-03-2024	M.C.		GAS CONDUIT		KERB AND CHANNEL		P.25	EXISTING CONTOUR LINE & LEVEL
					RECYCLED WATER CONDUIT		EX./FUT. KERB AND CHANNEL			FILLING IN EXCESS OF 200mm
					COMBINED SERVICES CONDUIT		KERB TO BE REMOVED OFFSITE			CATCH DRAIN AND INVERT LEVEL
REV.	REVISION	DATE	APPD.		T.B.M.		STREET SIGN			EX. BATTER
					P.S.M.					PROP. BATTER

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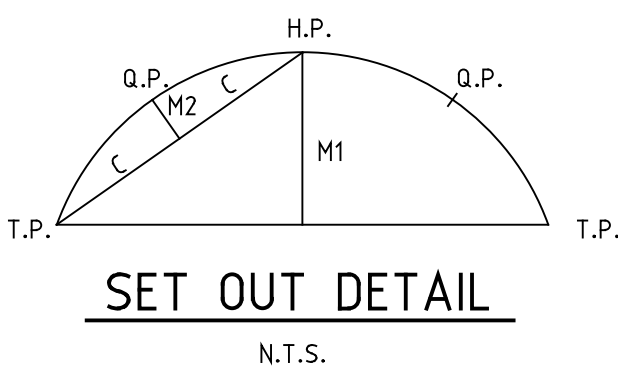
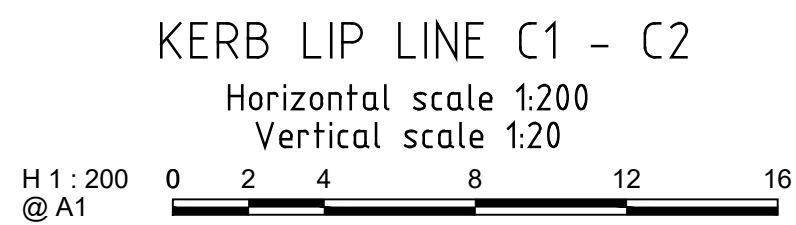


DRAWN: K.PHUNG	AUTHORITY: CITY OF MELTON	SCALE AS SHOWN
DESIGNED: K.PHUNG	PROJECT: MODEINA STAGE 32	LEVEL DATUM AHD
CHECKED: M.COLE	ROAD AND DRAINAGE	SHEET 4 OF 16
AUTHORISED: L.PAPAZOIS	DETAILS: INTERSECTION DETAILS SHEET 2 OF 3	DRAWING No. 1275/32/NE/04
DATE: 28-09-2023	----	REV. C2

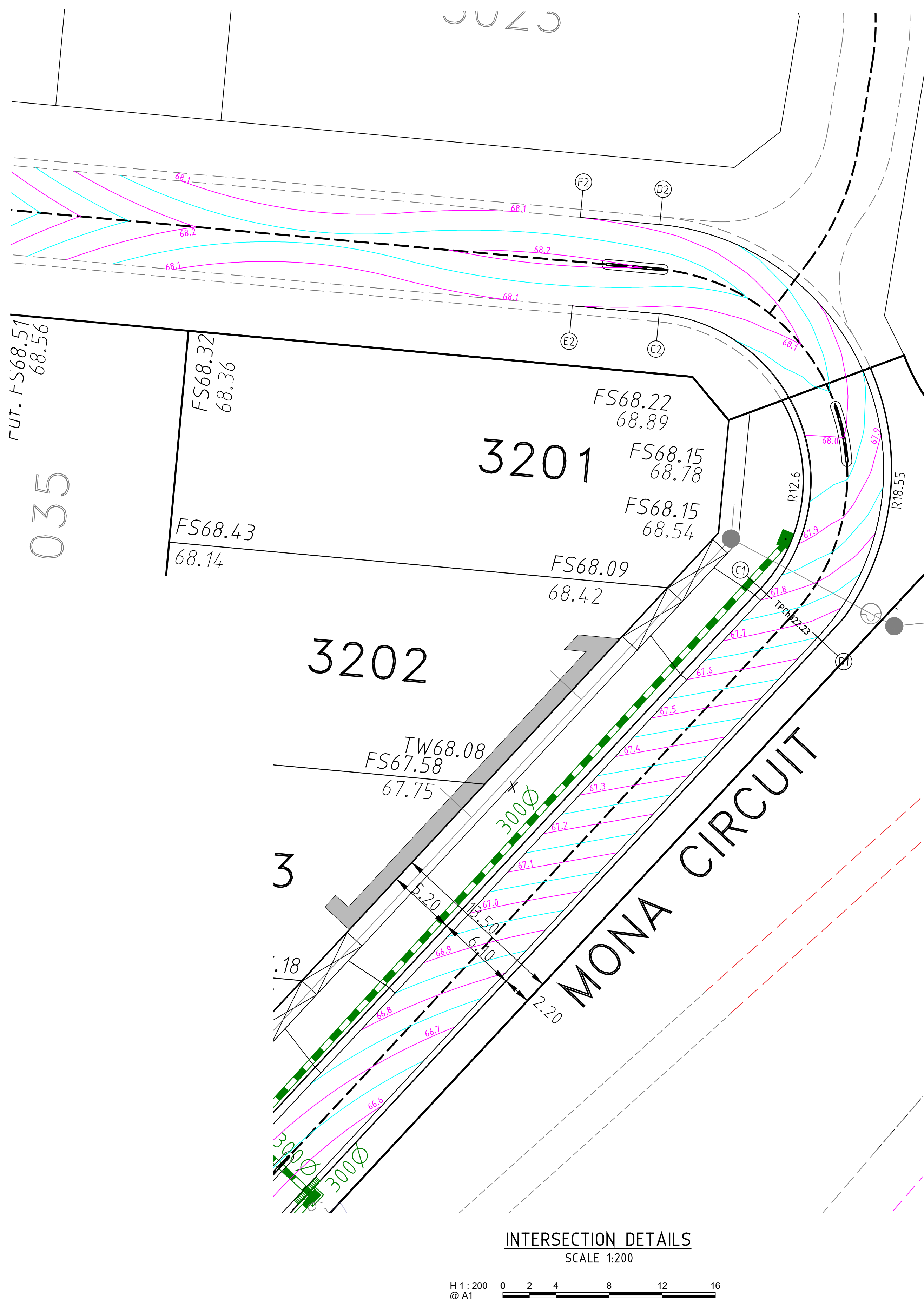
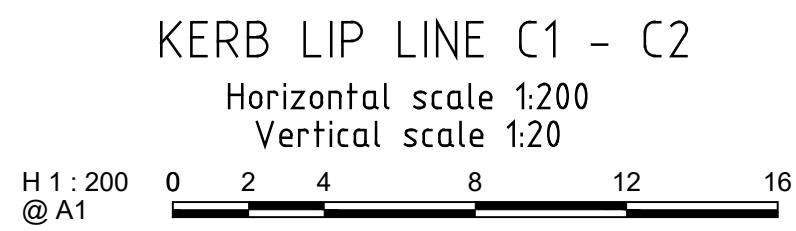




SET OUT DETAILS	
RAD.	18.550
INT	127°42'25"
TAN	37.788
CHD	33.304
ARC	41.346
M1	10.376
M2	2.806



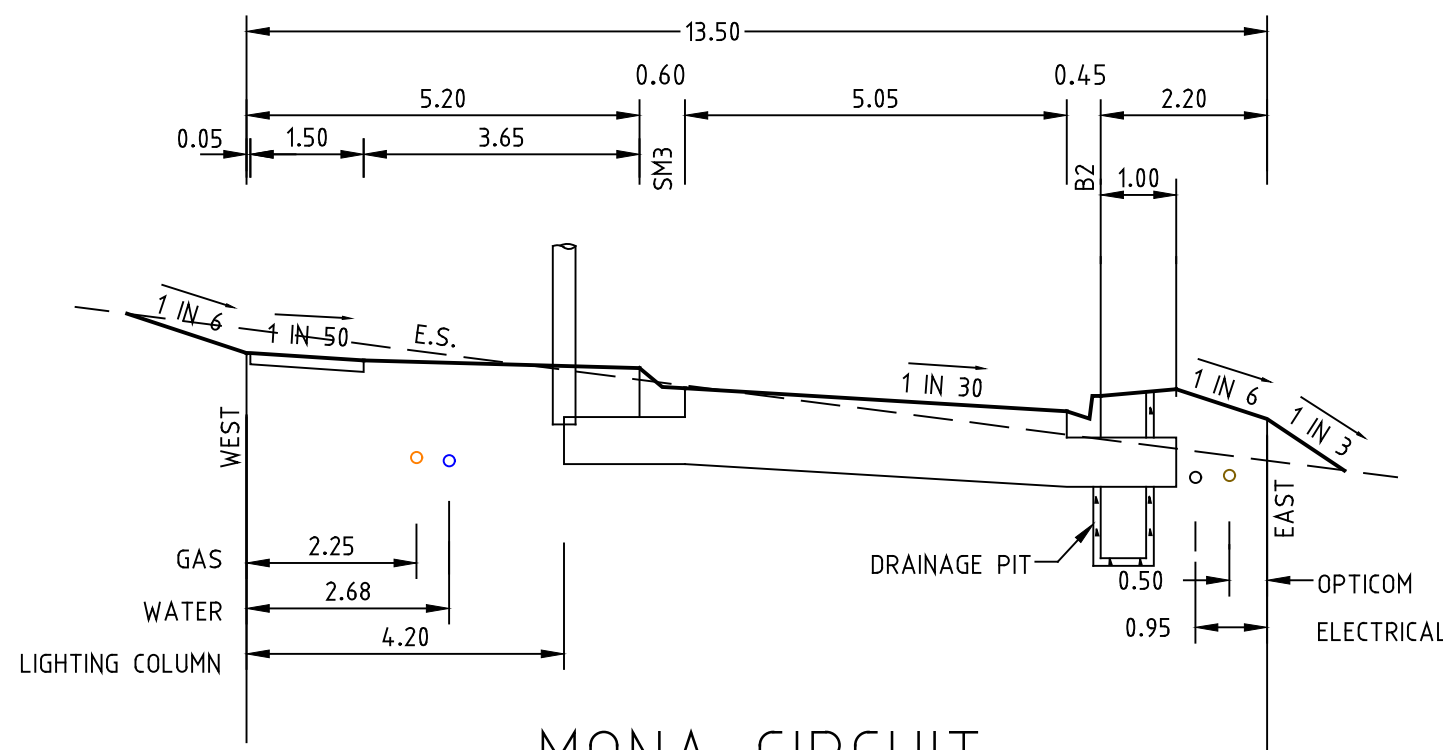
SET OUT DETAILS	
RAD.	12.600
INT	127°42'25"
TAN	25.667
CHD	22.621
ARC	28.084
M1	7.048
M2	1.906



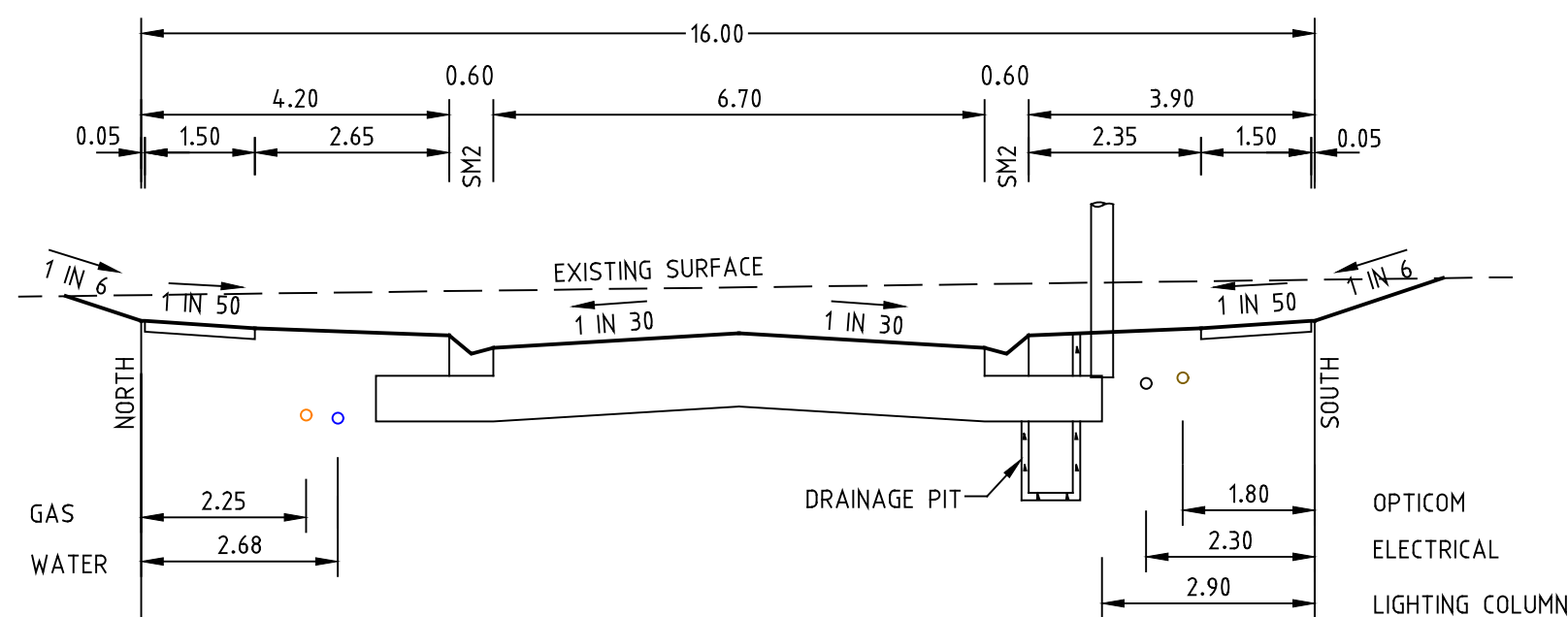
FOR CONSTRUCTION

				<b>LEGEND</b> 		22 Business Park Drive Notting Hill 3168 A.C.N. 006 550 803 E: <a href="mailto:consulting@dprvic.com.au">consulting@dprvic.com.au</a> W: <a href="http://www.dprvic.com.au">www.dprvic.com.au</a> T: (03) 9538 5000				DRAWN: K.PHUNG DESIGNED: K.PHUNG CHECKED: M.COLE AUTHORISED: L.PAPAZOIS DATE: 28-09-2023	AUTHORITY: <b>CITY OF MELTON</b> PROJECT: <b>MODEINA STAGE 32 ROAD AND DRAINAGE</b> DETAILS: <b>INTERSECTION DETAILS SHEET 3 OF 3</b> -----	SCALE AS SHOWN LEVEL DATUM AHD SHEET 5 OF 16 DRAWING No. <b>1275/32/NE/05</b>	REV. C2
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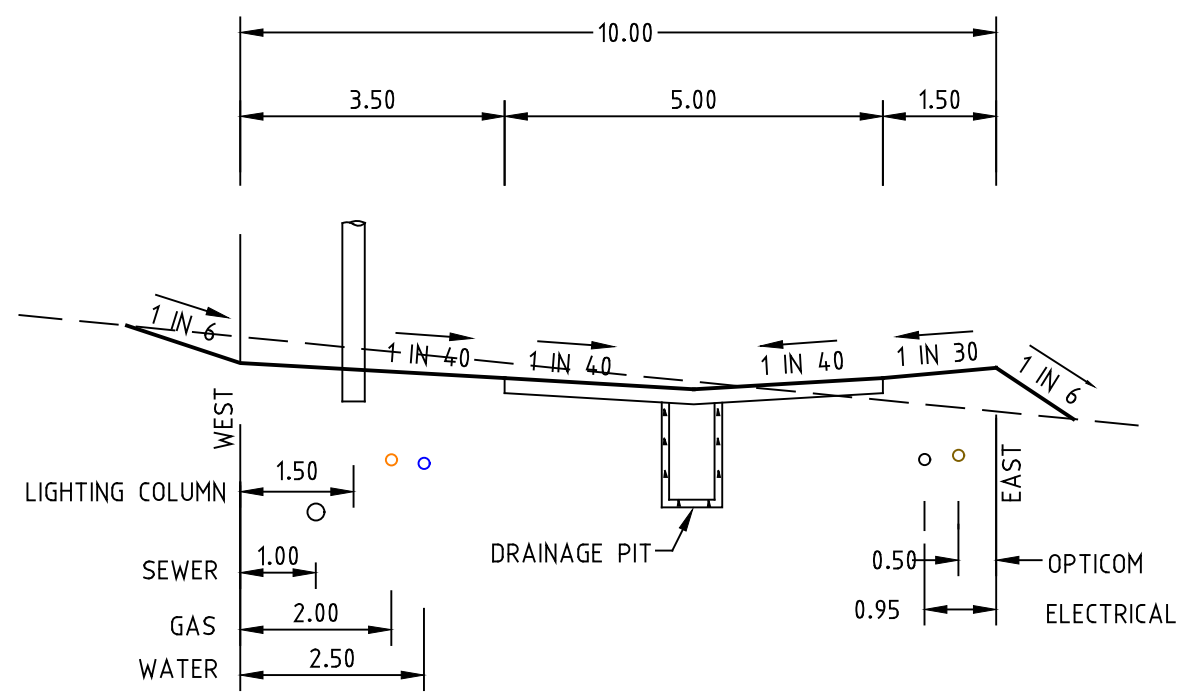




MONA CIRCUIT  
(NORTH-SOUTH)

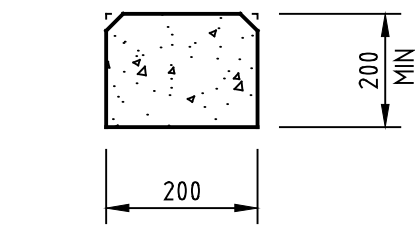


MONA CIRCUIT  
(EAST-WEST)

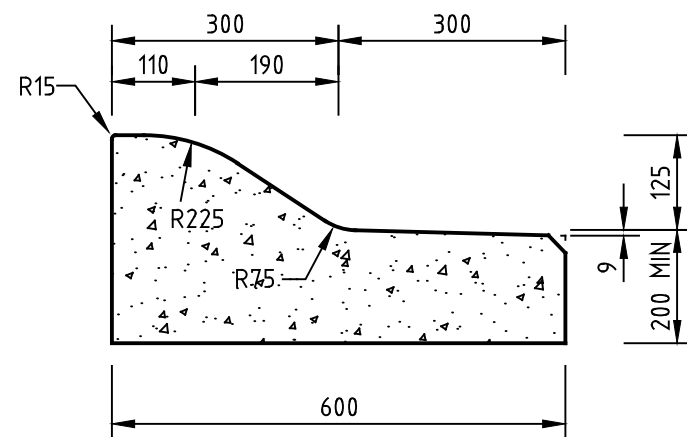


CHANEL GROVE

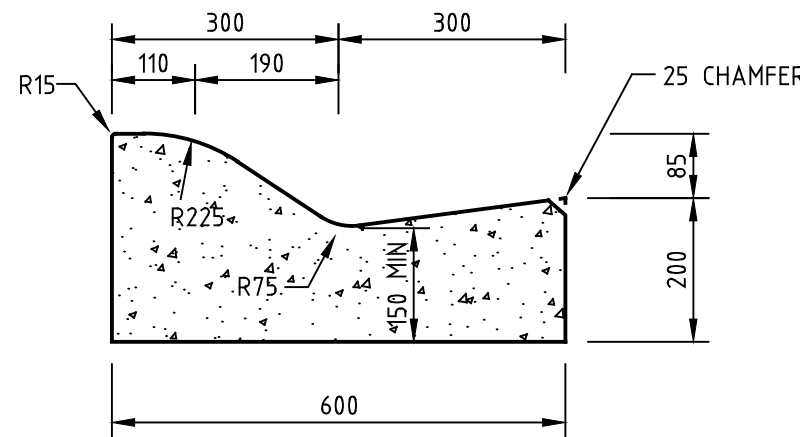
TYPICAL SECTIONS  
(NOT TO SCALE)



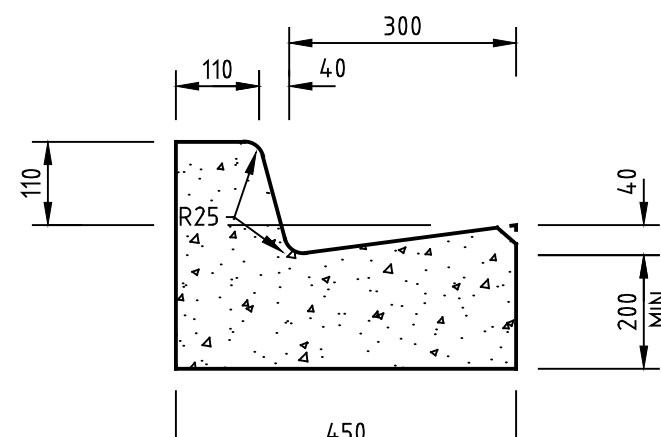
EDGE STRIP PROFILE



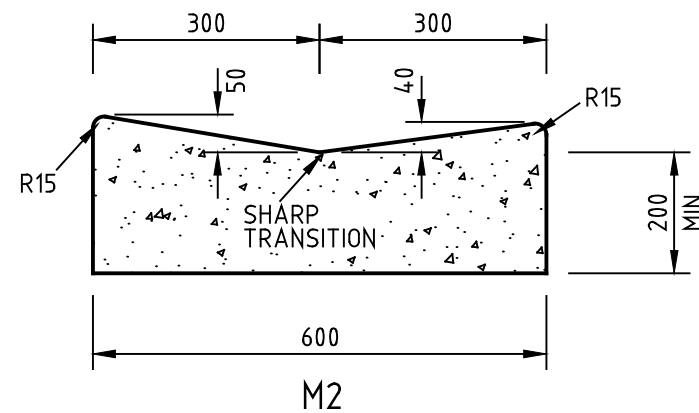
SM3 KERB PROFILE



SM2 K&Ch PROFILE



B2 KERB PROFILE



M2

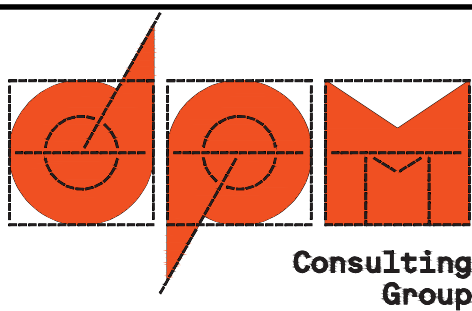
KERB DETAILS

N.T.S.

FOR CONSTRUCTION

-	-	-	-	LEGEND									
-	-	-	-	G	GAS MAIN	H	HOUSE DRAIN PROPOSED/EX.	CH	CHAINAGES AND TANGENT POINTS	-	-	-	-
-	-	-	-	W	WATER MAIN	P	PROPERTY INLET, DRAINAGE PITS	ES	EXISTING SURFACE LEVEL	-	-	-	-
-	-	-	-	RM	RECYCLED WATER MAIN	FS	EX./FUT. INLET, DRAINAGE PITS	FL	FINISHED LEVEL (TITLE BOUNDARY)	-	-	-	-
-	-	-	-	E	ELECTRICITY CABLE	T	DRAINAGE PIT STAGE/NUMBER	DT	DESIGN TOP/TOE OF BATTER LEVEL	-	-	-	-
-	-	-	-	TC	TELECOMMUNICATIONS CABLE	P	SEWER LINE AND STRUCTURES	DL	DESIGN PAVEMENT LEVEL	-	-	-	-
-	-	-	-	WC	WATER CONDUIT	ES	EX. SEWER LINE AND STRUCTURES	PL	PROPOSED CONTOUR LINE & LEVEL	-	-	-	-
-	-	-	-	GC	GAS CONDUIT	K	KERB AND CHANNEL	EL	EXISTING CONTOUR LINE & LEVEL	-	-	-	-
-	-	-	-	RWC	RECYCLED WATER CONDUIT	K	EX./FUT. KERB AND CHANNEL	CD	CATCH DRAIN AND INVERT LEVEL	-	-	-	-
-	-	-	-	CS	COMBINED SERVICES CONDUIT	R	KERB TO BE REMOVED OFFSITE	EX	EX. BATTER	-	-	-	-
-	-	-	-	T.B.M.	T.B.M.	P.S.M.	STREET SIGN	PR	PROP. BATTER	-	-	-	-
C1	ISSUED FOR CONSTRUCTION	26-03-2024	M.C.										
REV.	REVISION	DATE	APPD.										

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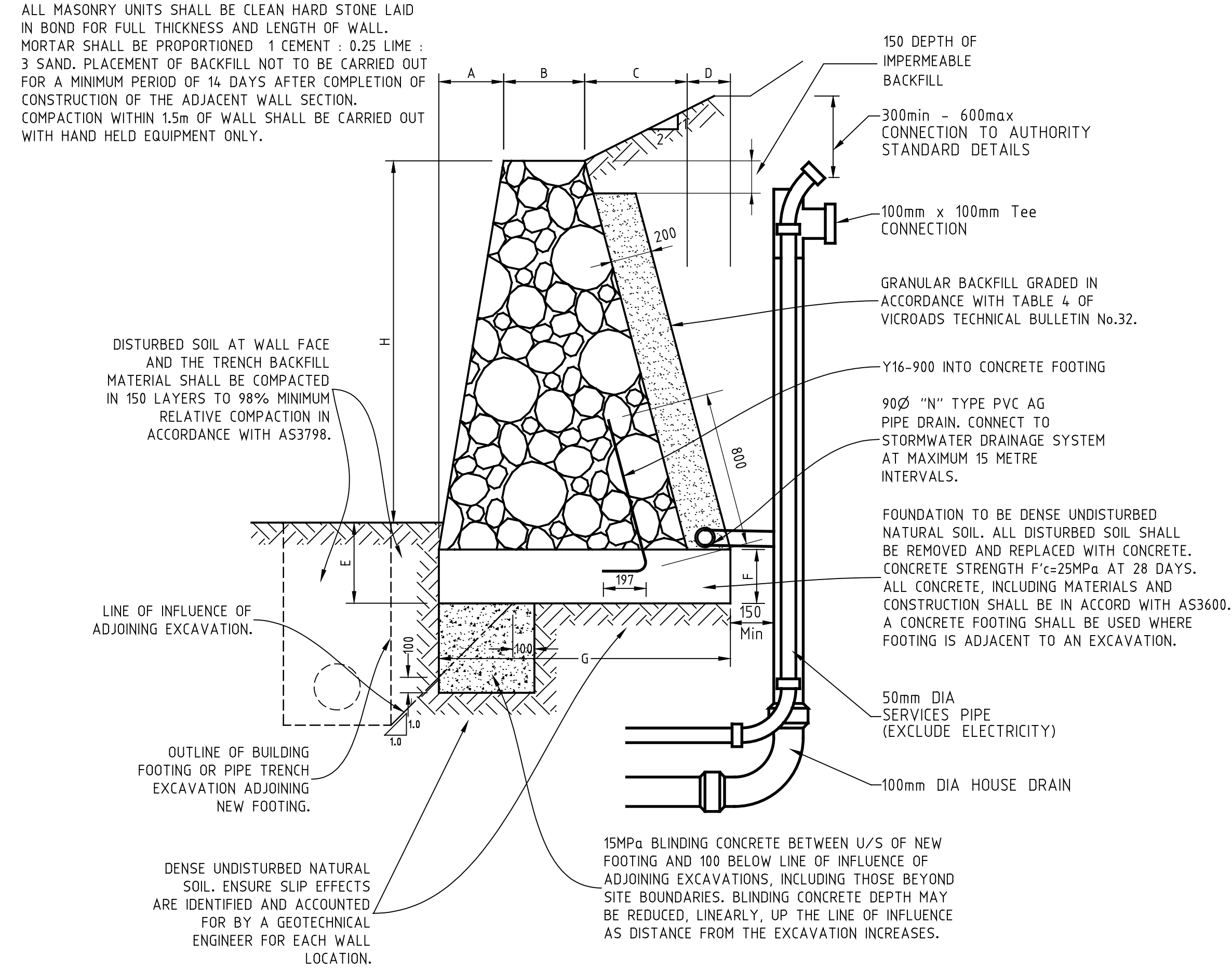
DRAWN: K.PHUNG	AUTHORITY: CITY OF MELTON	SCALE: NTS
DESIGNED: K.PHUNG	PROJECT: MODEINA STAGE 32 ROAD AND DRAINAGE	LEVEL DATUM: AHD
CHECKED: M.COILE	DETAILS: TYPICAL SECTIONS	SHEET 6 OF 16
AUTHORISED: L.PAPAZOIS	DATE: 28-09-2023	DRAWING No. 1275/32/NE/06
		REV. C1



GENERAL NOTES

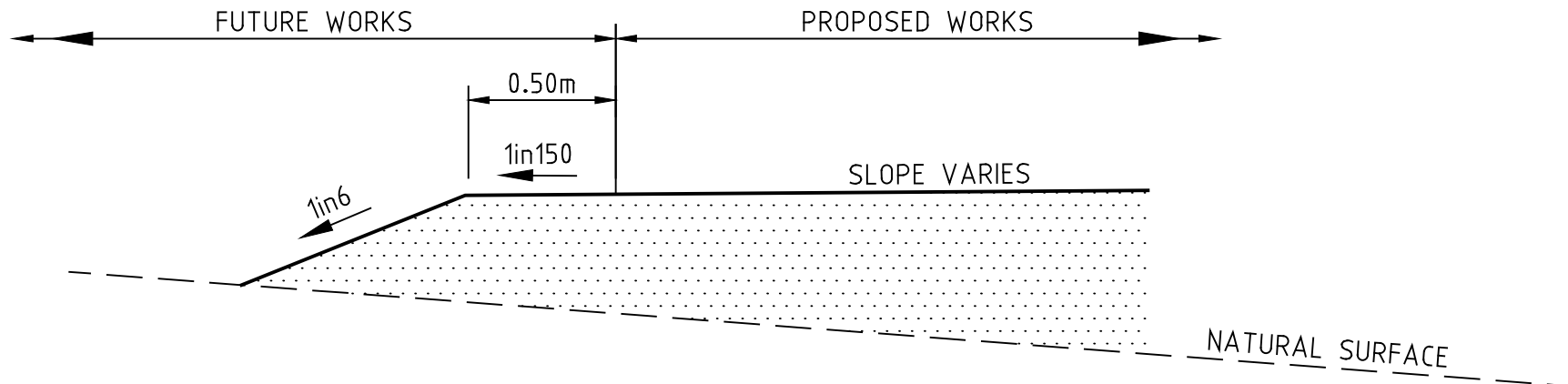
1. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE GROWTH AREAS AUTHORITY (G.A.A.) ENGINEERING DESIGN AND CONSTRUCTION MANUAL FOR SUBDIVISION IN GROWTH AREAS (APRIL 2011) AND TO THE SATISFACTION OF THE CITY OF MELTON'S CHIEF EXECUTIVE OFFICE OR HIS/HER NOMINATED REPRESENTATIVE. COUNCIL'S SENIOR SUBDIVISION APPROVALS ENGINEER IS TO BE NOTIFIED IN WRITING, SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
2. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR SEVEN DAYS PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
3. CHAINAGES REFER TO CENTRELINE OF ROAD RESERVE UNLESS INDICATED OTHERWISE.
4. THE NATURE STRIPS AND CUT OR FILLED AREAS ON ALLOTMENTS ARE TO BE TOPSOILED WITH 100mm OF APPROVED MATERIAL. IF THE STRIPPED MATERIAL ON SITE IS NOT SUITABLE, THE TOPSOIL SHALL BE IMPORTED AT THE CONTRACTOR'S EXPENSE.
5. ALL ALLOTMENTS SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE WITH A MINIMUM FALL OF 1 in 150 TO THE DRAINAGE OUTLET SHOWN.
6. ALL EASEMENT DRAINS ARE TO BE OFFSET 1.00m FROM PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN.
7. ALL DRAINAGE PIPES UNDER ROAD PAVEMENTS, FOOTPATHS OR DRIVEWAYS, ETC. SHALL BE BACKFILLED WITH FINE CRUSHED ROCK IN ACCORDANCE WITH THE CITY OF MELTON ROAD & DRAINAGE SPECIFICATION.
8. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED AND ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
9. TELECOMMUNICATIONS CONDUITS WILL BE SUPPLIED AND LAID BY OTHERS AND THE TRENCHES EXCAVATED AND BACKFILLED BY THE CONTRACTOR. THE CONTRACTOR SHALL GIVE THE TELECOMMUNICATIONS AREA ENGINEER 7 DAYS NOTICE PRIOR TO COMMENCING TRENCHING WORK.
10. TRENCHING FOR UNDERGROUND ELECTRICAL CABLES, SUPPLY AND INSTALLATION OF CONDUITS, AND SUPPLY AND PLACEMENT OF BACKFILL IS TO BE UNDERTAKEN BY THE CONTRACTOR UNDER THE SUPERVISION OF THE RELEVANT ELECTRICAL AUTHORITY.
11. THE CONTRACTOR SHALL CO-OPERATE WITH OTHER CONTRACTORS AND/OR AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE TO BE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE.
12. WHEN ROADWAYS ARE TRUNCATED AGAINST RISING LANDS PENDING DEVELOPMENT OF FUTURE STAGES, TEMPORARY A.G. DRAINS SHALL BE INSTALLED ACROSS THE END OF ROAD TO PREVENT SEEPAGE INTO THE PAVEMENT.
13. THE CONTRACTOR WHEN ENGAGED IN BLASTING OPERATION, SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE SUPERINTENDENT.
14. PROPERTY INLETS AND HOUSE DRAINS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH E.D.C.M. STANDARD DRAWINGS 701, 702, 703 & 704. HOUSE DRAINS FOR ALLOTMENTS SHALL BE AT A SUFFICIENT DEPTH TO CONTROL DISCHARGE AT A MINIMUM OF 1 IN 100 FALL FROM ALL POINTS WITHIN THE PROPERTY AREA, AND SHALL BE CONNECTED TO UNDERGROUND DRAINS IN ROAD RESERVES WHERE POSSIBLE WITH 600mm MINIMUM COVER AT THE PROPERTY LINE. PROPERTY INLETS ARE TO BE A MINIMUM DEPTH OF 500mm BELOW FINISHED SURFACE LEVEL. HOUSE DRAINS ARE TO BE LOCATED 5.50m FROM THE LOW SIDE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN.
15. ALL STORMWATER DRAINS SHALL BE R.C.P CLASS 2 UNLESS OTHERWISE STATED. ALL PIPES LESS THAN OR EQUAL TO 525mm DIA ARE TO BE RUBBER RING JOINTED. ALL DRAINS BEHIND KERB & CHANNEL SHALL BE BACKFILLED WITH CLASS 3 C.R. (20mm NOM. SIZE). ALL DRAINS AND SEWERS BENEATH THE ROAD PAVEMENT AND CONCRETE FOOTPATHS, DRIVEWAYS OR ANY SEALED SURFACE AND KERB & CHANNEL SHALL BE BACKFILLED WITH 20mm NOM. SIZE CLASS 2 C.R. ALL BACKFILLING TO BE COMPACTED TO 95% MINIMUM DRY DENSITY.
16. BEFORE COMMENCING WORK ON DRAINS IN EXCESS OF 1.5 METRES DEEP A NOTICE OF SUCH A PROPOSAL IS TO BE SENT TO THE OCCUPATION HEALTH AND SAFETY AUTHORITY IN ACCORDANCE WITH CLAUSE 5.1.27 OF THE OCCUPATIONAL HEALTH & SAFETY REGULATIONS ACT 2007. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE STABLE CONDITION AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS. A FOREMAN QUALIFIED AS AN EVACUATION SUPERVISOR, MUST BE IN ATTENDANCE AT ALL TIMES DURING SUCH EXCAVATIONS.
17. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS G, W, T, E AND H ABOVE THE SERVICE LOCATIONS AS SPECIFIED.
18. CUT BATTERS ARE NOT TO EXCEED 1 IN 6 AND FILL BATTERS ARE NOT TO EXCEED 1 IN 6 UNLESS INDICATED OTHERWISE. CUT BATTERS TO BE GRASSED, MULCHED WITH A MIXTURE OF CHOPPED GRASS, HAY, STRAW AND BITUMINOUS EMULSION TO THE SATISFACTION OF THE CITY OF MELTON SUPERVISING ENGINEER. CUT BATTERS WITHIN PROPERTIES ADJACENT TO VEHICLE CROSSINGS ARE NOT TO EXCEED 1in6.
19. DRIVEWAY & PRAM CROSSINGS SHOWN ON THESE PLANS ARE DIAGRAMMATIC ONLY. FOR PRAM CROSSING DETAILS REFER TO STD DRG EDM 403. FOR VEHICLE CROSSING DETAILS REFER TO CITY OF MELTON STD DRG MCC 501.
20. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH AS 1742.5 & THE CURRENT CITY OF MELTON REQUIREMENTS INCLUDING THE PROVISION OF LOGOS.
21. THE CONTRACTOR IS TO ENSURE THAT HIS CONSTRUCTION PROCEDURES AND STANDARDS CONTROL THE VOLUME AND LOCATION FOR COLLECTION OF SEDIMENT DISCHARGE ACCORDING TO CURRENT BEST PRACTICES.
22. OPTUS AND TELSTRA SERVICE CONDUITS ARE TO BE EXTENDED TO 1000mm INSIDE THE PROPERTY BOUNDARY, AND GAS AND WATER CONDUITS SHALL EXTEND 300mm PAST THE PROPERTY BOUNDARY WHERE FOOTPATHS ARE TO BE CONSTRUCTED. LOCATION OF CONDUITS IS TO BE MARKED ON FOOTPATHS. CONDUITS ARE TO BE 50mm HD PVC LAID AT A MIN. DEPTH OF 200mm BELOW PAVEMENT SUBGRADE
23. ALL LINEMARKING TO BE WITH REFLECTORISED GLASS BEAD PAINT OF LONG LIFE TYPE. FOR LINE PATTERNS AND DIMENSIONS OF LONGITUDINAL AND TRAVERSE LINES REFER TO THE VIC ROADS TRAFFIC ENGINEERING MANUAL VOL. 2 (JULY 1986) TABLE 18-3.
24. THE CONTRACTOR IS TO BE RESPONSIBLE FOR ENSURING THAT SUFFICIENT WARNING SIGNS, LIGHTS AND BARRIERS ARE ERECTED AND MAINTAINED DURING THE PROGRESS OF WORK. SIGNS, MARKINGS AND DELINEATORS SHOULD BE ERECTED IN ACCORDANCE WITH AS1742-1,2,3 1986, WHICH COMPLIES WITH THE VIC ROADS ROADWORKS SIGNAGE CODE OF PRACTICE.
25. THE CONTRACTOR IS TO INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKERS ON THE ROAD CENTRELINE AND MARKER POSTS TO INDICATE THE LOCATION OF THE FIREPLUGS.
26. ANY FOOTPATHS OR KERB AND CHANNEL DAMAGED DURING CONSTRUCTION AND MAINTENANCE PERIODS TO BE REINSTATED TO THE SATISFACTION OF THE CITY OF MELTON.
27. REMOVAL OR RETENTION OF EXISTING TREES OR VEGETATION MUST BE IN ACCORDANCE WITH THE APPROVED TREE RETENTION PLAN. NO MATERIAL IS TO BE BURNT ON SITE UNLESS AUTHORISED BY THE SUPERINTENDENT.
28. EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH AS3798-2007. ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS CONTROLLED FILL. FILLING IN PROPERTIES IS TO BE CARRIED OUT USING APPROVED CLAY FILL. TOPSOIL AND ALL VEGETABLE MATTER IS TO BE STRIPPED FROM SITE PRIOR TO FILLING. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO MINIMUM DRY DENSITY RATIO OF 95% STANDARD IN ACCORDANCE WITH A.S. 3978. COMPACTION RESULTS ARE TO BE PROVIDED TO THE SUPERINTENDENT FOR ALLOTMENTS WITH EXCESS OF 300mm OF FILL.
29. A.G. DRAINS (100mm) ARE TO BE INSTALLED BEHIND ALL KERB & CHANNEL AND CONCRETE INVERTS IN ACCORDANCE WITH STANDARD DRAWINGS EDM 202. AG'S BEHIND CONCRETE INVERTS SHALL BE BACKFILLED WITH CLASS 3 BASALTIC SCREENINGS OR NO FINES CONCRETE BLOCKS COVERED WITH GEOTEXTILE FABRIC EXTENDING 225mm EITHER SIDE OF THE AG TRENCH.
30. ALL CONCRETE FOR KERB AND CHANNEL, FOOTPATH AND DRIVE CROSSINGS TO BE 25MPa UNLESS NOTED OTHERWISE
31. THE CONTRACTOR CANNOT CONSTRUCT ANY ELECTRICAL WORKS WITHOUT THE PRIOR CONSENT OF THE RELEVANT ELECTRICITY AUTHORITY
32. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:-  
i) SOURCE OF QUARRY MATERIAL  
ii) OPTIMUM MOISTURE CONTENT AND MAXIMUM DRY DENSITY OF THE F.C.R. TO BE USED (FROM N.A.T.A. APPROVED LABORATORY)  
iii) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, NEW TEST RESULTS SHALL BE PROVIDED.
33. THE DISPOSAL SITE FOR SPOIL FROM SITE & THE TRUCK ROUTE IS TO BE SUBMITTED TO & APPROVED BY CITY OF MELTON IN WRITING PRIOR TO COMMENCEMENT OF ANY WORK. ALL EXCAVATED CLEAN MATERIAL IS TO BE STOCKPILED ON SITE AS DIRECTED BY THE SUPERINTENDENT.
34. COMPACTION RESULTS FOR SEWER MAINS CROSSING ROAD RESERVES ARE TO BE SUBMITTED TO THE SUPERINTENDENT.

35. BACKFILL OF ALL SERVICE TRENCHES & CONDUITS UNDER PARKING BAYS, DRIVEWAYS AND FOOTPATHS, ARE TO BE FULLY COMPACTED WITH LOW PERMEABILITY CLASS 4 CRUSHED ROCK BACKFILL.
36. WHERE A NEW ROAD MEETS AN UNDEVELOPED STAGE, EARTHWORKS TO TOP OF FOOTPATH LEVEL ARE TO BE EXTENDED FOR A DISTANCE OF 8m TO FINAL LEVELS.
37. PSMs ARE TO BE HIGH STABILITY TYPE INSTALLED TO THE SATISFACTION OF MELTON CITY COUNCIL.
38. PRIOR TO START OF ANY WORK, A PRE-COMMENCEMENT MEETING MUST BE HELD ON SITE BETWEEN COUNCIL REPRESENTATIVE, SUPERINTENDENT AND THE CONTRACTOR.
39. MAP GRID OF AUSTRALIA (MGA) SHALL BE USED AS THE CO-ORDINATE SYSTEM AND AUSTRALIAN HEIGHT DATUM (AHD) SHALL BE USED AS THE REFERENCE SYSTEM FOR ALL LEVELS.



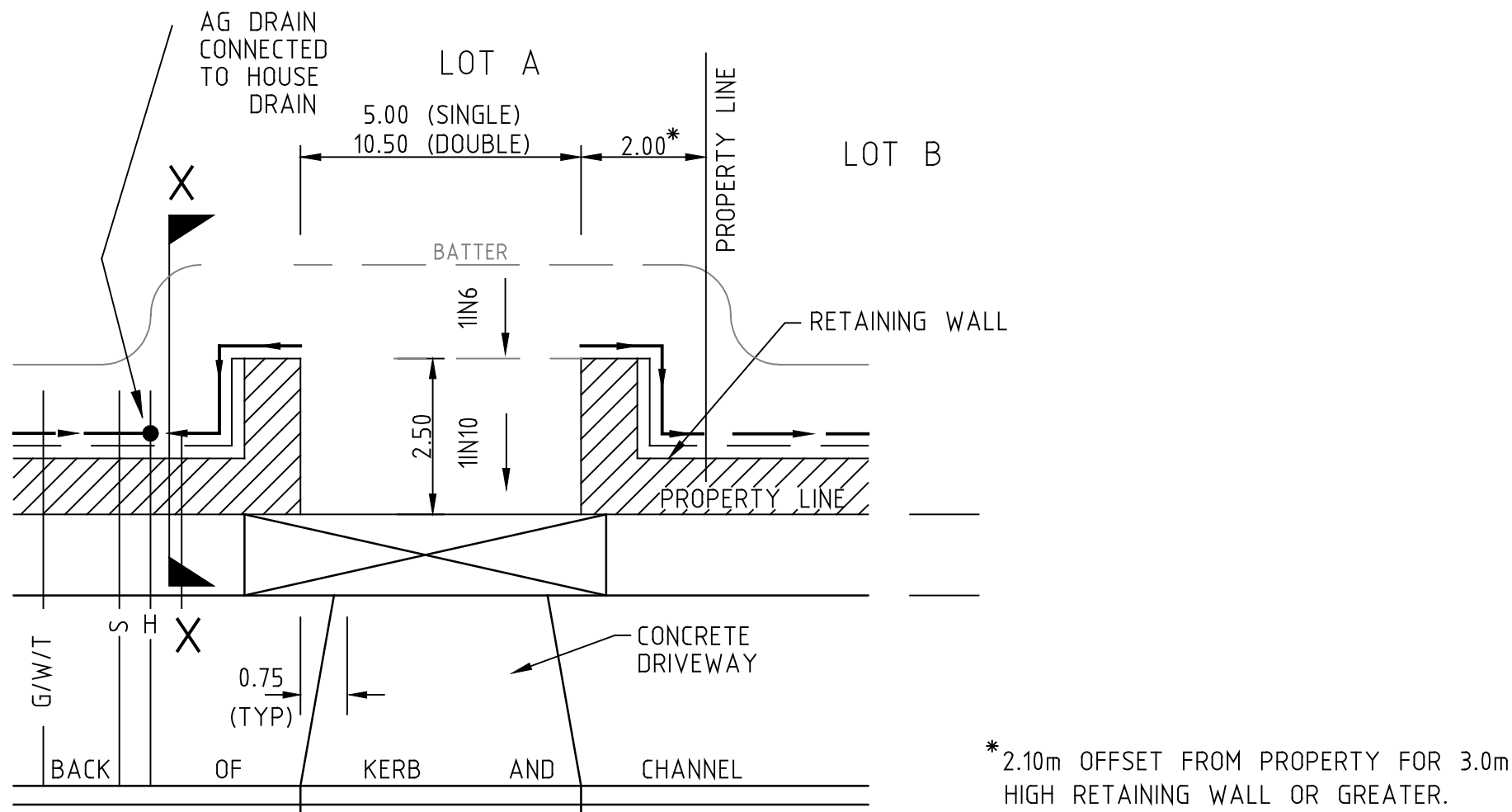
RETAINING WALL - SECTION X-X

NOT TO SCALE.



BATTER INTO FUTURE LOT

NOT TO SCALE



RETAINING WALL & DRIVEWAY DETAIL

NOT TO SCALE.

H	500	700	900	1100	1300	1500
A	100	125	150	200	225	250
B	175	200	225	275	300	325
C	175	200	250	300	350	400
D	200	200	200	200	200	200
E	225	250	275	300	325	350
F	100	125	150	175	200	225
G	600	725	825	950	1075	1175

RETAINING WALL DIMENSION TABLE

(ALL DIMENSIONS ARE IN MILLIMETRES) LINEAR INTERPOLATION OF WALL DIMENSION IS ACCEPTABLE.

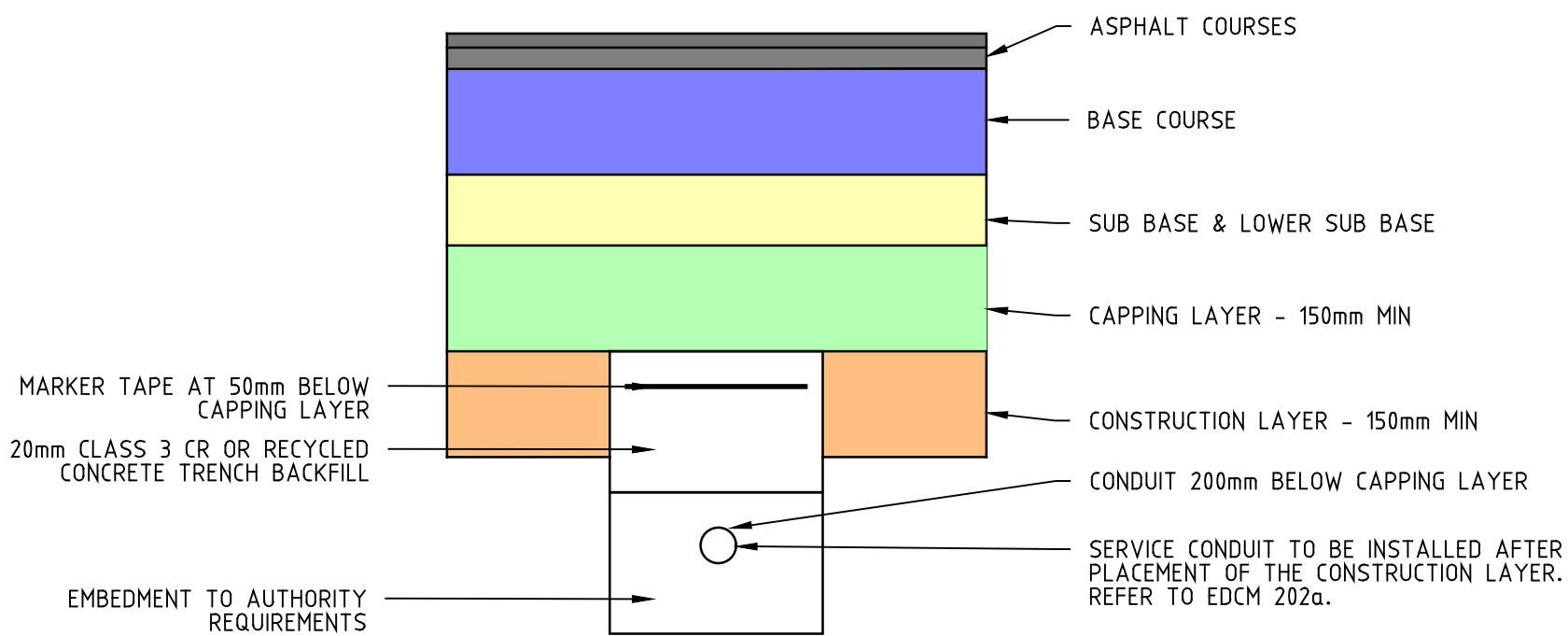
FOR CONSTRUCTION

-	-	-	-	<b>LEGEND</b>	<b>CHAINAGES AND TANGENT POINTS</b>	DRAWN: K.PHUNG	AUTHORITY: CITY OF MELTON	SCALE AS SHOWN
-	-	-	-	GAS MAIN	HOUSE DRAIN PROPOSED/EX.	DESIGNED: K.PHUNG	PROJECT: MODEINA STAGE 32	LEVEL DATUM AHD
-	-	-	-	WATER MAIN	PROPERTY INLET, DRAINAGE PITS	CHECKED: M.COLO	ROAD AND DRAINAGE	SHEET 07 OF 16
-	-	-	-	RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	AUTHORISED: L.PAPAZOIS	DETAILS: NOTES AND MISCELLANEOUS DETAILS	DRAWING No.
-	-	-	-	ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	DATE: 28-09-2023	----	1275/32/NE/07
-	-	-	-	TELECOMMUNICATIONS CABLE	EX./FUT. KERB AND CHANNEL			REV. C1
C1	ISSUED FOR CONSTRUCTION	26-03-2024	M.C.	WATER CONDUIT	EX./FUT. KERB AND CHANNEL			
	REVISION	DATE	APPD.	GAS CONDUIT	KERB TO BE REMOVED OFFSITE			
				RECYCLED WATER CONDUIT	STREET SIGN			
				COMBINED SERVICES CONDUIT				
				T.B.M.				
				F.S.M.				

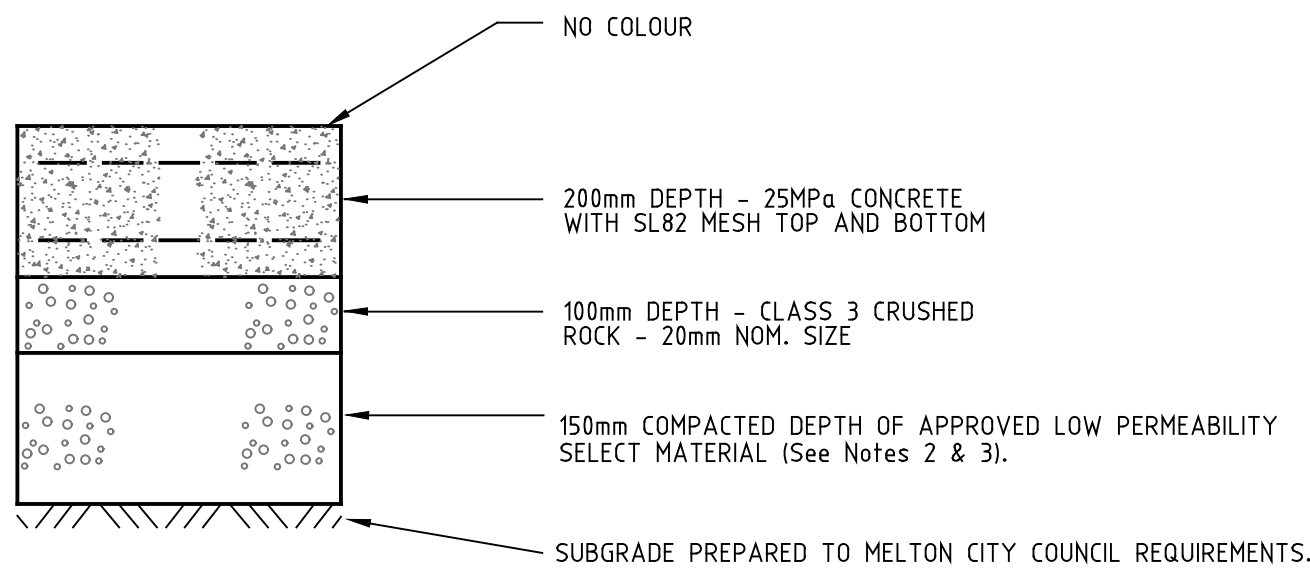


PAVEMENT NOTES:

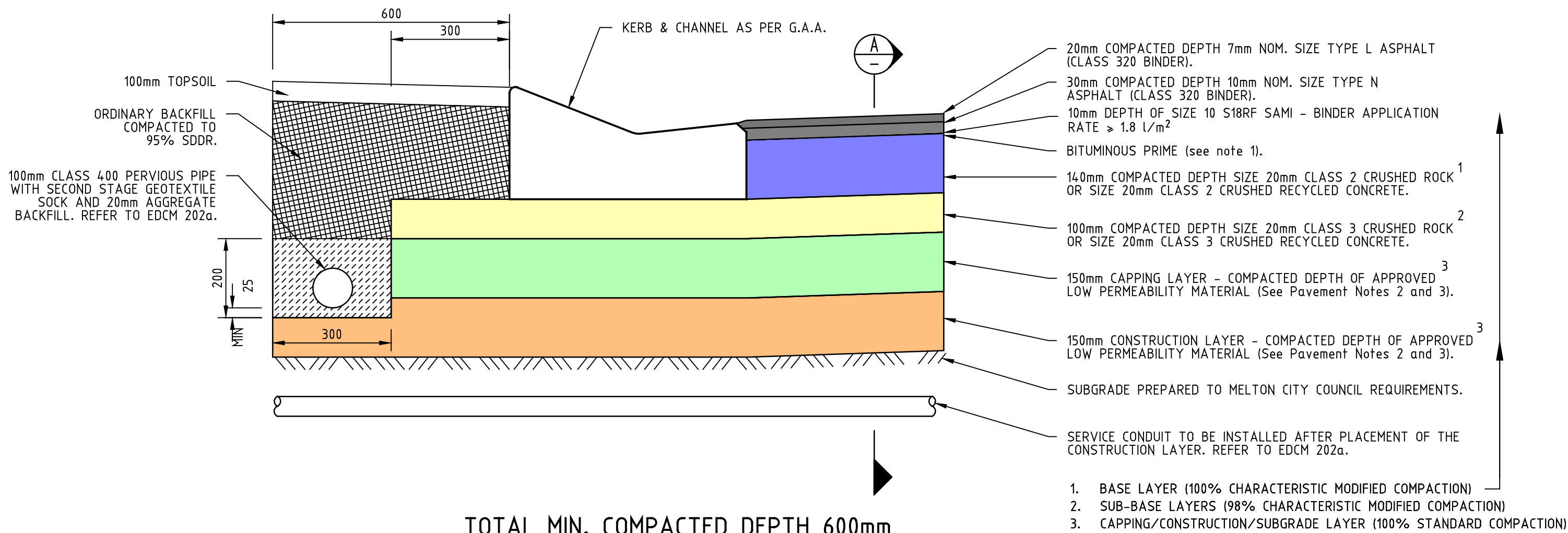
- Note 1.** SELECTION DEPENDENT ON WEATHER CONDITIONS AND NEED OR OTHERWISE TO TRAFFIC PRIOR TO ASPHALT PLACEMENT. CONTRACTOR SHOULD NOMINATE AND SEEK APPROVAL OF TYPE, APPLICATION RATE AND CURING REQUIREMENTS PRIOR TO APPLICATION.
- Note 2.** MAXIMUM PERMEABILITY 5x10<sup>-9</sup>m/s. MINIMUM SOAKED CBR 8%, MAX CBR SWELL 1.5%. LAYER THICKNESS SHOULD BE RAISED WHERE ROCK ENCOUNTERED ABOVE UNDERSIDE OF LAYER.
- Note 3.** THIS LAYER CAN BE THICKENED IF LOCALISED SUBGRADE IMPROVEMENT IS REQUIRED, I.E. VIA REMOVAL AND REPLACEMENT; AND
- Note 4.** SUB BASE CAN BE USED AS A LEVELLING LAYER OVER BASALT ONLY SUBGRADES IF REQUIRED.



SECTION A  
SCALE: NTS



CHANEL GROVE



1. BASE LAYER (100% CHARACTERISTIC MODIFIED COMPACTION)
2. SUB-BASE LAYERS (98% CHARACTERISTIC MODIFIED COMPACTION)
3. CAPPING/CONSTRUCTION/SUBGRADE LAYER (100% STANDARD COMPACTION)

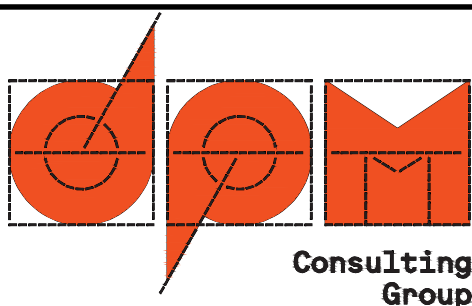
PAVEMENT COMPOSITIONS

NOT TO SCALE

FOR CONSTRUCTION

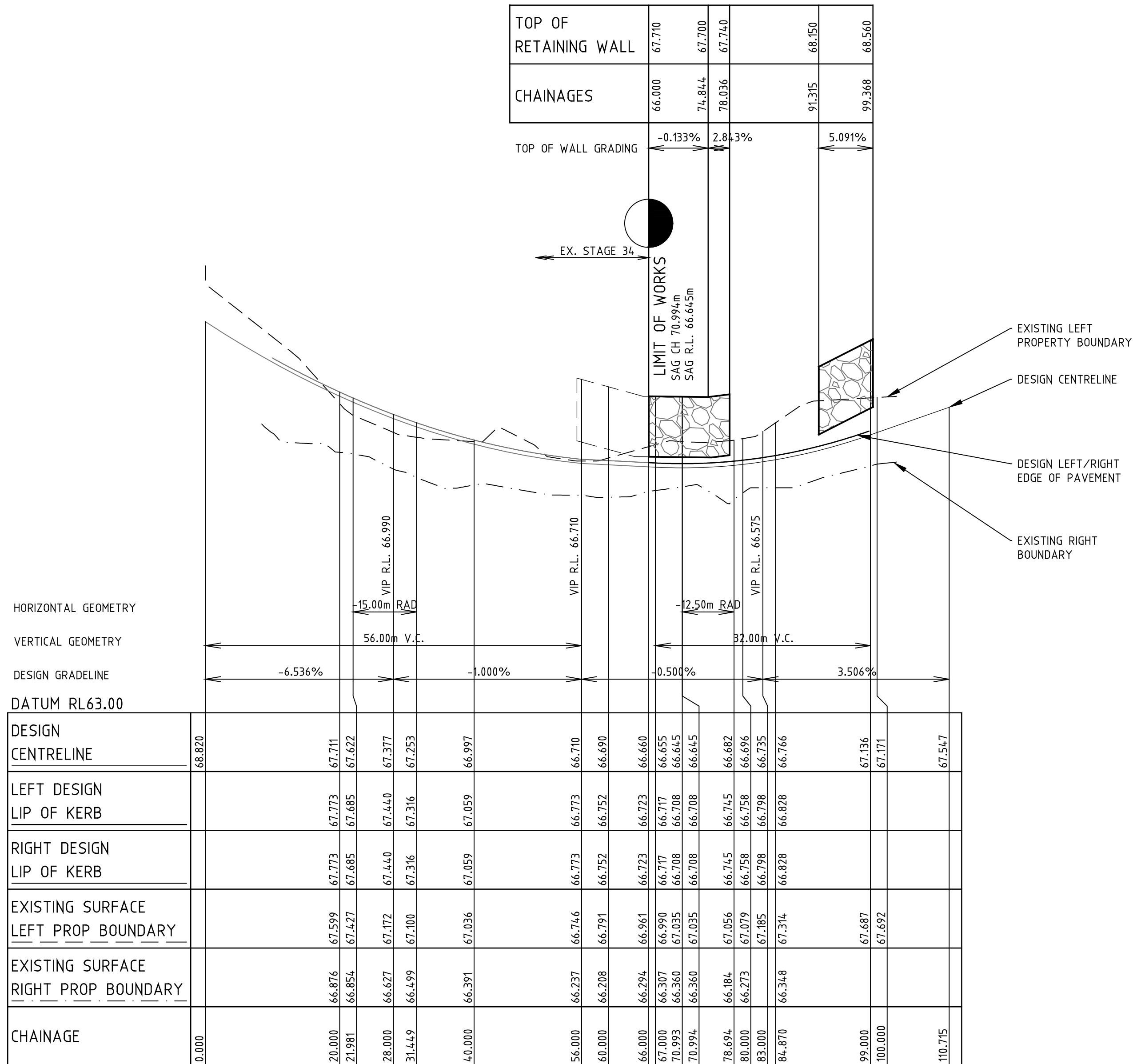
-	-	-	-	LEGEND					
-	-	-	-		GAS MAIN		HOUSE DRAIN PROPOSED/EX.		CHAINAGES AND TANGENT POINTS
-	-	-	-		WATER MAIN		PROPERTY INLET, DRAINAGE PITS		EXISTING SURFACE LEVEL
-	-	-	-		RECYCLED WATER MAIN		EX./FUT. INLET, DRAINAGE PITS		FINISHED LEVEL (TITLE BOUNDARY)
-	-	-	-		ELECTRICITY CABLE		DRAINAGE PIT STAGE/NUMBER		DESIGN TOP/TOE OF BATTER LEVEL
-	-	-	-		TELECOMMUNICATIONS CABLE		SEWER LINE AND STRUCTURES		DESIGN PAVEMENT LEVEL
-	-	-	-		WATER CONDUIT		EX. SEWER LINE AND STRUCTURES		PROPOSED CONTOUR LINE & LEVEL
-	-	-	-		GAS CONDUIT		KERB AND CHANNEL		EXISTING CONTOUR LINE & LEVEL
-	-	-	-		RECYCLED WATER CONDUIT		EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
-	-	-	-		COMBINED SERVICES CONDUIT		KERB TO BE REMOVED OFFSITE		CATCH DRAIN AND INVERT LEVEL
-	-	-	-		T.B.M.		STREET SIGN		EX. BATTER
-	-	-	-		P.S.M.				PROP. BATTER
C1	ISSUED FOR CONSTRUCTION	26-03-2024	M.C.						
REV.	REVISION	DATE	APPD.						

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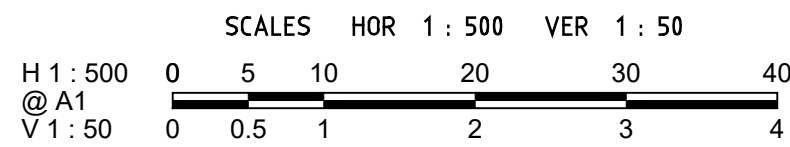


DRAWN: K.PHUNG	AUTHORITY: CITY OF MELTON	SCALE AS SHOWN
DESIGNED: K.PHUNG	PROJECT: MODEINA STAGE 32 ROAD AND DRAINAGE	LEVEL DATUM AHD
CHECKED: M.COLE	DETAILS: PAVEMENT PROFILE	SHEET 8 OF 16
AUTHORISED: L.PAPAZOIS	DATE: 28-09-2023	DRAWING No. 1275/32/NE/08
		REV. C1





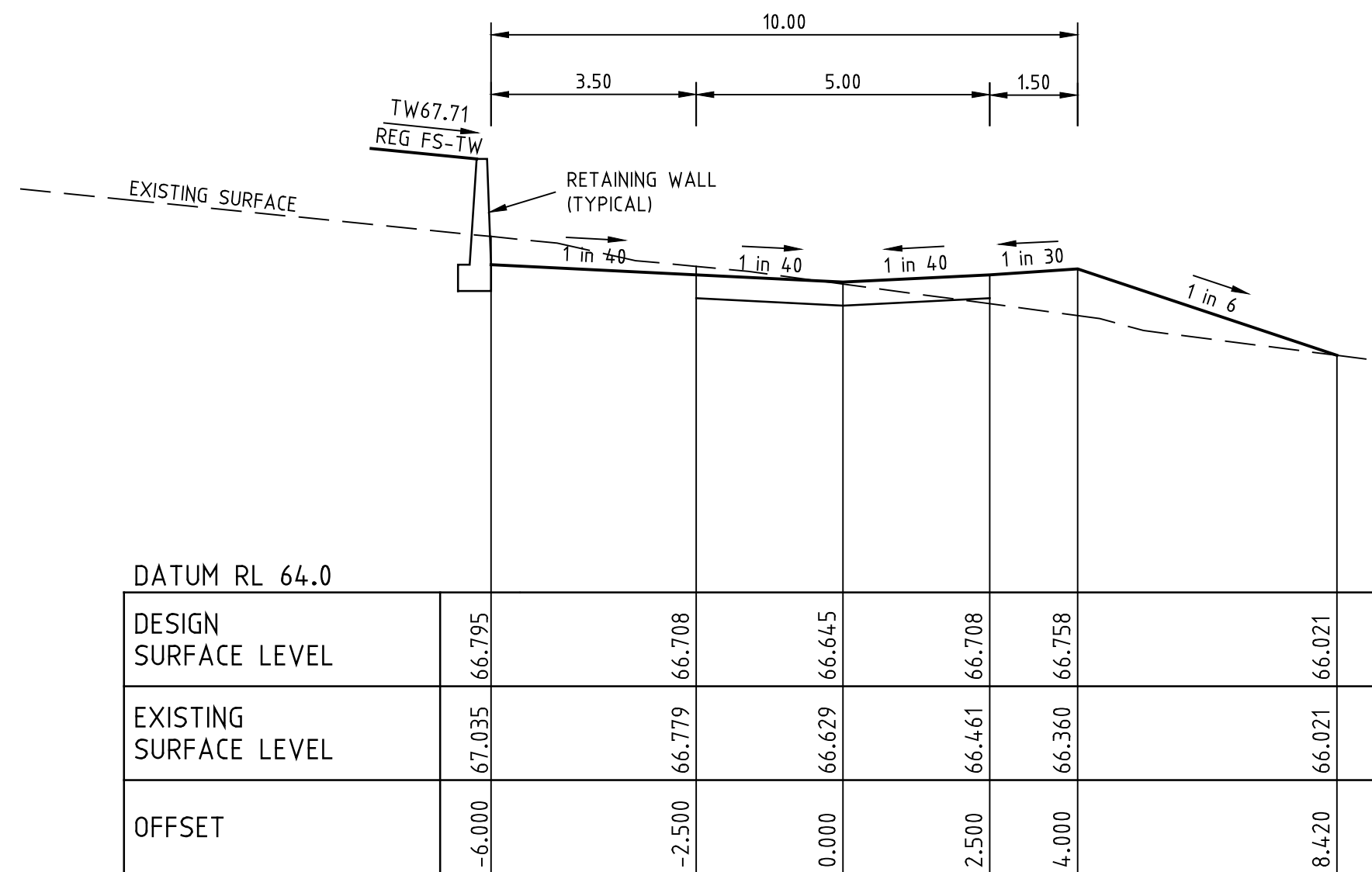
ROAD LONGITUDINAL SECTION CHANEL GROVE



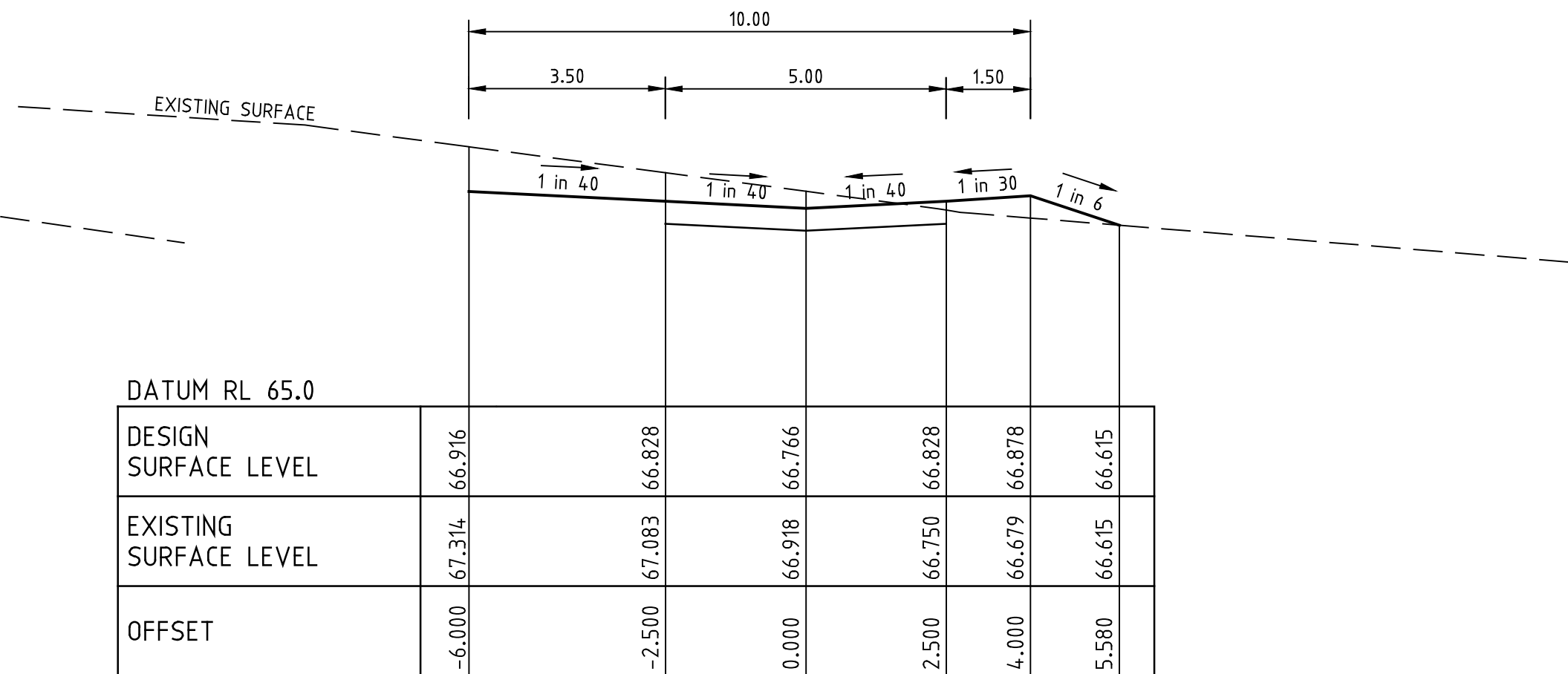
FOR CONSTRUCTION

				<div><div><div><div><div><div></div><div>GAS MAIN</div></div><div><div></div><div>WATER MAIN</div></div><div><div></div><div>RECYCLED WATER MAIN</div></div><div><div></div><div>ELECTRICITY CABLE</div></div><div><div></div><div>TELECOMMUNICATIONS CABLE</div></div><div><div></div><div>WATER CONDUIT</div></div><div><div></div><div>GAS CONDUIT</div></div><div><div></div><div>RECYCLED WATER CONDUIT</div></div><div><div></div><div>COMBINED SERVICES CONDUIT</div></div><div><div></div><div>T.B.M.</div></div><div><div></div><div>P.S.M.</div></div></div><div><div><div><div></div><div>HOUSE DRAIN PROPOSED/EX.</div></div><div><div></div><div>PROPERTY INLET, DRAINAGE PITS</div></div><div><div></div><div>EX./FUT. INLET, DRAINAGE PITS</div></div><div><div></div><div>DRAINAGE PIT STAGE/NUMBER</div></div><div><div></div><div>SEWER LINE AND STRUCTURES</div></div><div><div></div><div>EX-SEWER LINE AND STRUCTURES</div></div><div><div></div><div>KERB AND CHANNEL</div></div><div><div></div><div>EX./FUT. KERB AND CHANNEL</div></div><div><div></div><div>KERB TO BE REMOVED OFFSITE</div></div><div><div></div><div>STREET SIGN</div></div></div><div><div><div><div></div><div>CHAINAGES AND TANGENT POINTS</div></div><div><div></div><div>EXISTING SURFACE LEVEL</div></div><div><div></div><div>FINISHED LEVEL (TITLE BOUNDARY)</div></div><div><div></div><div>DESIGN TOP/TOE OF BATTER LEVEL</div></div><div><div></div><div>DESIGN PAVEMENT LEVEL</div></div><div><div></div><div>PROPOSED CONTOUR LINE &amp; LEVEL</div></div><div><div></div><div>EXISTING CONTOUR LINE &amp; LEVEL</div></div><div><div></div><div>FILLING IN EXCESS OF 200mm</div></div><div><div></div><div>CATCH DRAIN AND INVERT LEVEL</div></div><div><div></div><div>EX. BATTER</div></div><div><div></div><div>PROP. BATTER</div></div></div></div></div></div></div></div>										22 Business Park Drive Notting Hill 3168 A.C.N. 006 550 803 E: consulting@dpmvic.com.au W: www.dpmvic.com.au T: (03) 9538 5000		<div><div><div></div><div></div><div></div></div><div>Consulting Group</div></div>		DRAWN: K.PHUNG DESIGNED: K.PHUNG CHECKED: M.COLE AUTHORISED: L.PAPAZOIS DATE: 28-09-2023		AUTHORITY: CITY OF MELTON PROJECT: <b>MODEINA STAGE 32</b> <b>ROAD AND DRAINAGE</b> DETAILS: CHANEL GROVE LONGITUDINAL SECTIONS ----		SCALE AS SHOWN LEVEL DATUM AHD SHEET 9 OF 16 DRAWING No. <b>1275/32/NE/09</b> REV. C1	
REV.	REVISION	DATE	APPD.																				

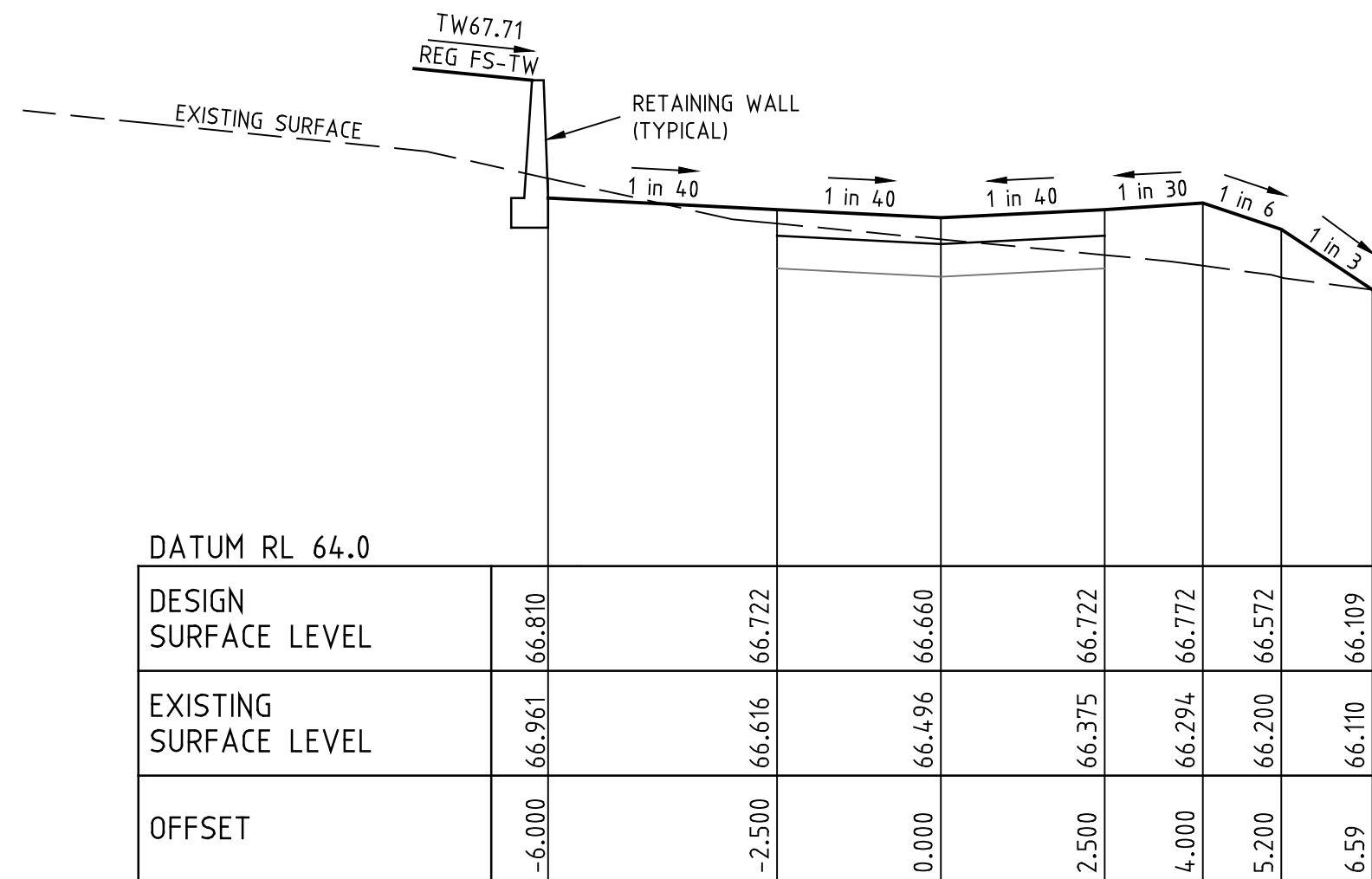




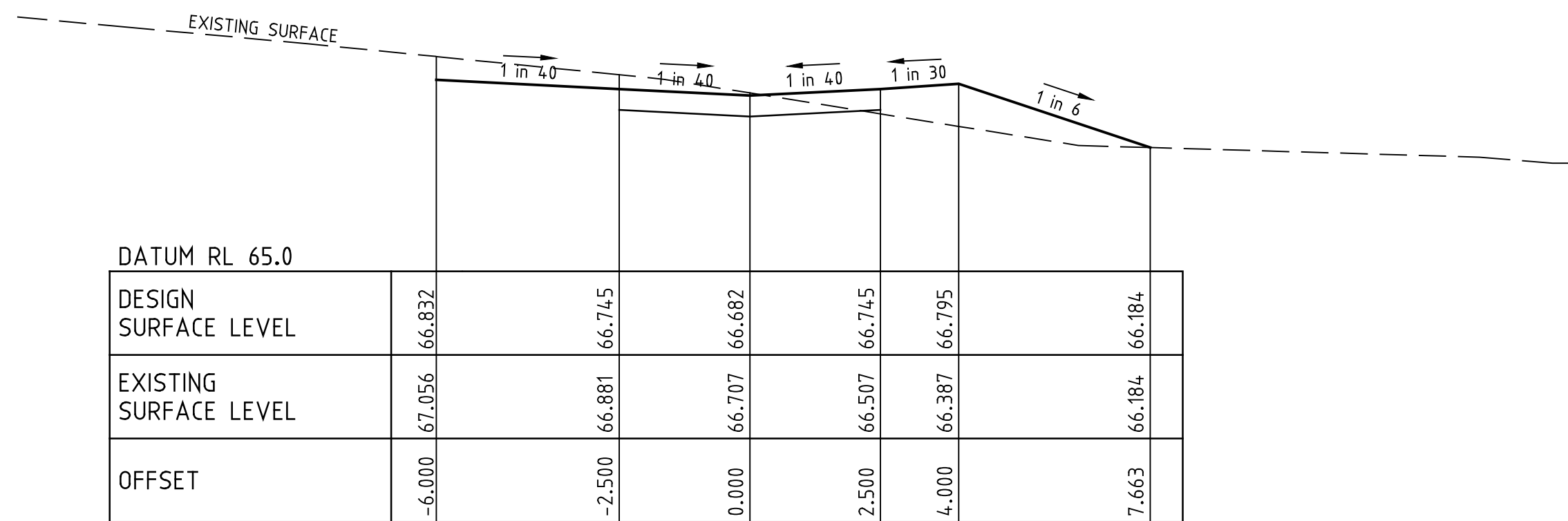
CH 70.99



CH 84.87



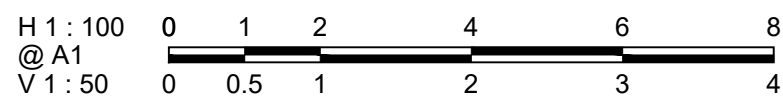
CH 66.00



CH 78.69

ROAD CROSS SECTIONS CHANNEL GROVE

SCALES HOR 1 : 100 VER 1 : 50



FOR CONSTRUCTION

				<b>LEGEND</b>							
-	-	-	-		GAS MAIN		HOUSE DRAIN PROPOSED/EX.		CHAINAGES AND TANGENT POINTS		
-	-	-	-		WATER MAIN		PROPERTY INLET, DRAINAGE PITS		EXISTING SURFACE LEVEL		
-	-	-	-		RECYCLED WATER MAIN		EX./FUT. INLET, DRAINAGE PITS		FINISHED LEVEL (TITLE BOUNDARY)		
-	-	-	-		ELECTRICITY CABLE		DRAINAGE PIT STAGE/NUMBER		DESIGN TOP/TOE OF BATTER LEVEL		
-	-	-	-		TELECOMMUNICATIONS CABLE		SEWER LINE AND STRUCTURES		DESIGN PAVEMENT LEVEL		
-	-	-	-		WATER CONDUIT		EX-SEWER LINE AND STRUCTURES		PROPOSED CONTOUR LINE & LEVEL		
-	-	-	-		GAS CONDUIT		KERB AND CHANNEL		EXISTING CONTOUR LINE & LEVEL		
-	-	-	-		RECYCLED WATER CONDUIT		EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm		
-	-	-	-		COMBINED SERVICES CONDUIT		KERB TO BE REMOVED OFFSITE		CATCH DRAIN AND INVERT LEVEL		
-	-	-	-		T.B.M.		P.S.M.		STREET SIGN		
C1	ISSUED FOR CONSTRUCTION	26-03-2024	M.C.								
REV.	REVISION	DATE	APPD.								

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Consulting Group

DRAWN: K.PHUNG  
DESIGNED: K.PHUNG  
CHECKED: M.COLE  
AUTHORISED: L.PAPAZOIS  
DATE: 28-09-2023

AUTHORITY: CITY OF MELTON  
PROJECT: **MODEINA STAGE 32**  
**ROAD AND DRAINAGE**  
DETAILS: **CHANEL GROVE CROSS SECTIONS**  
----

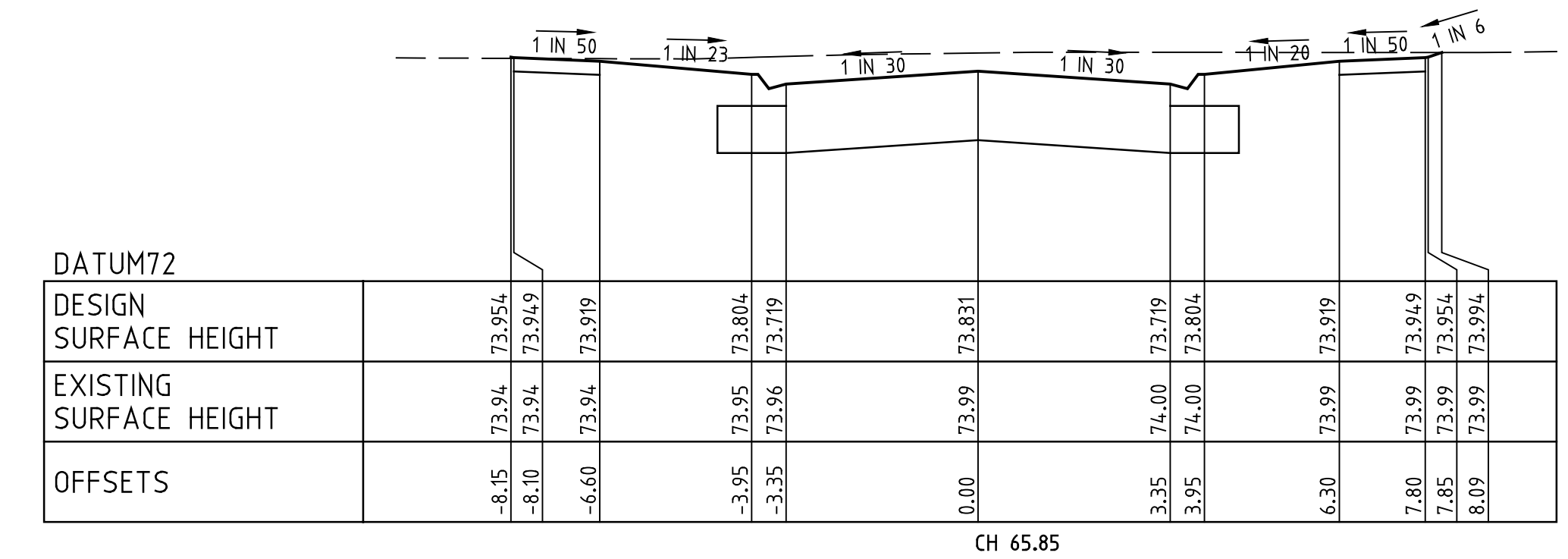
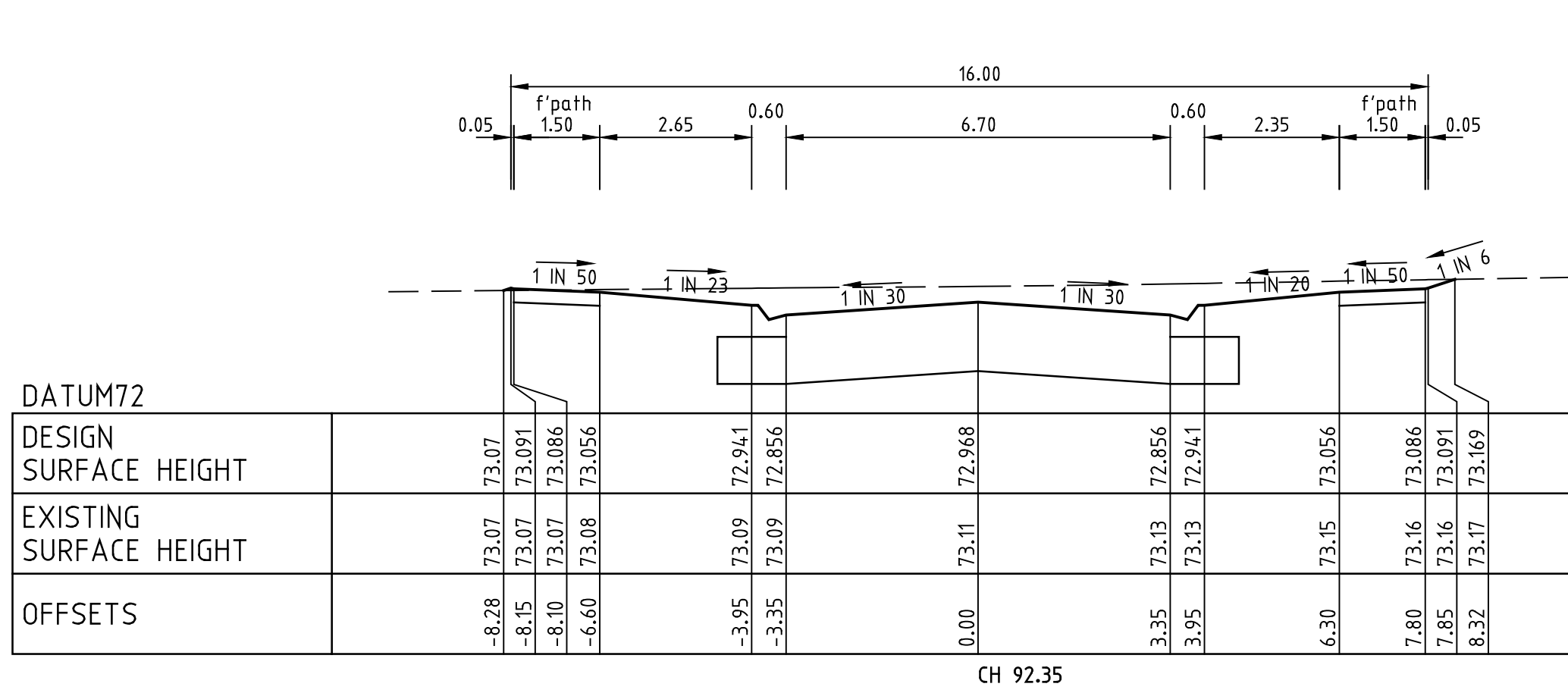
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LEVEL DATUM AHD  
SHEET 10 OF 16  
DRAWING No.  
**1275/32/NE/10**  
REV.  
C1

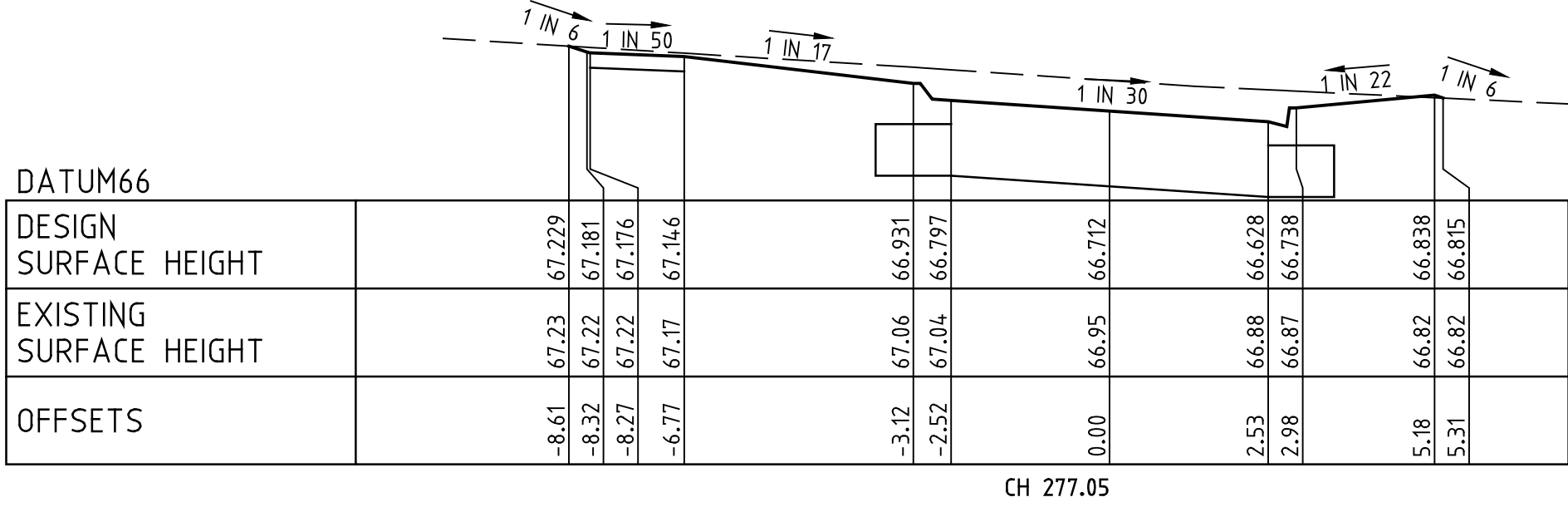
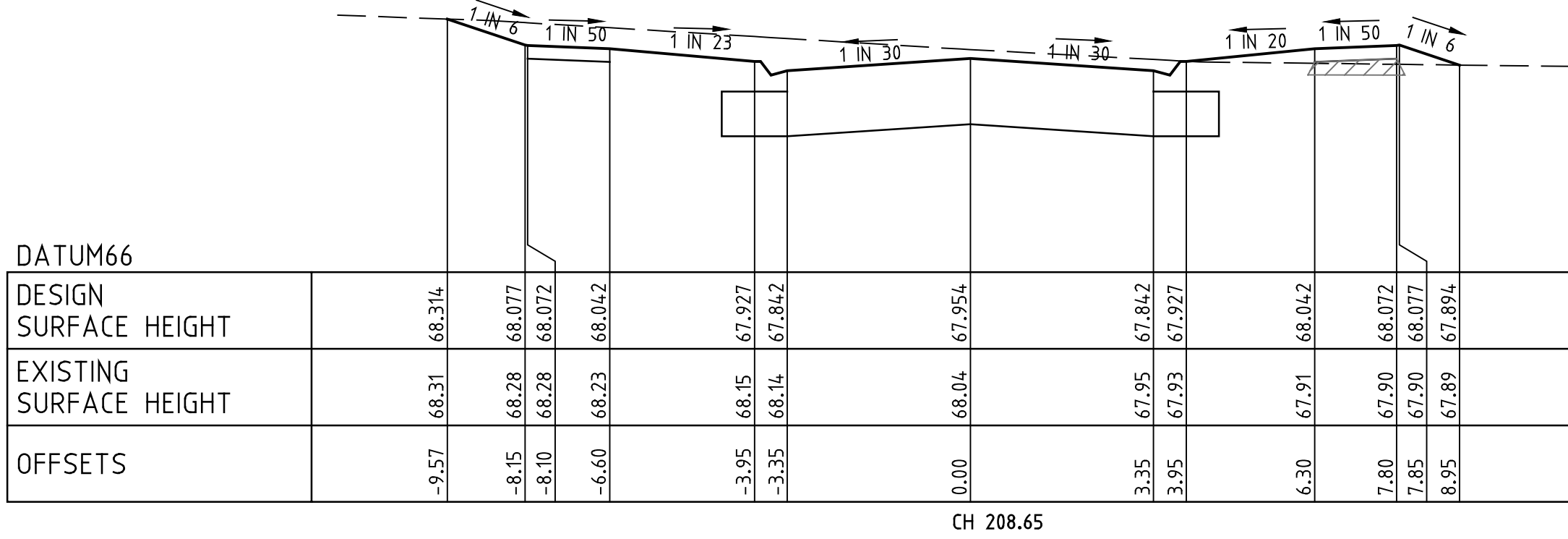
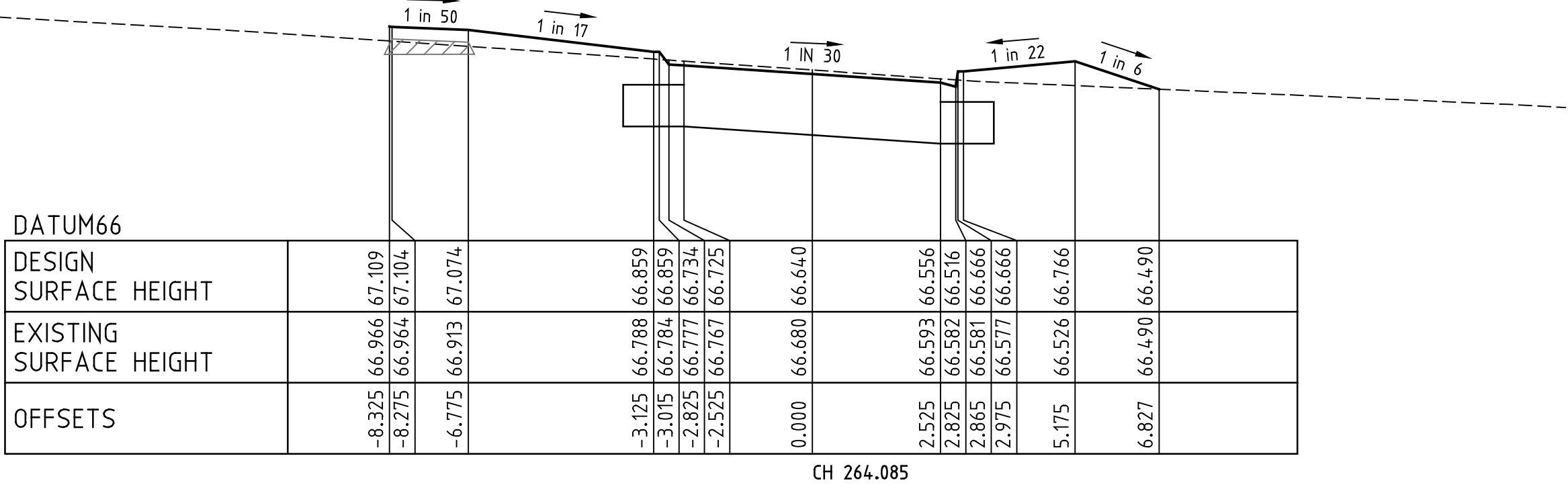
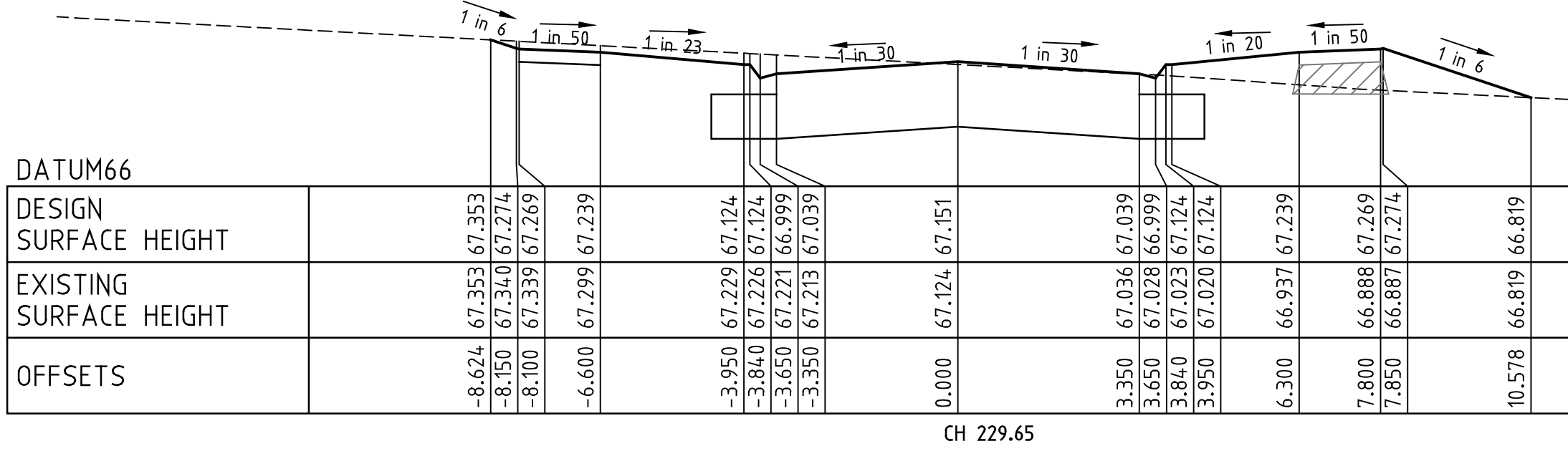
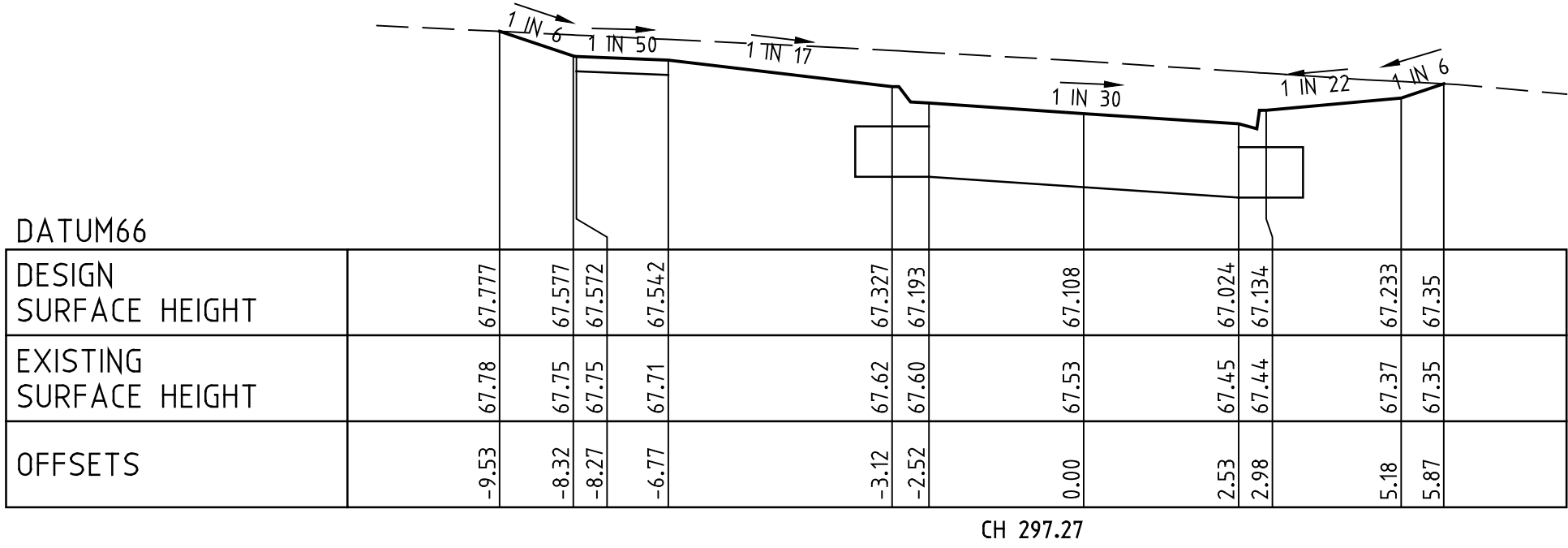
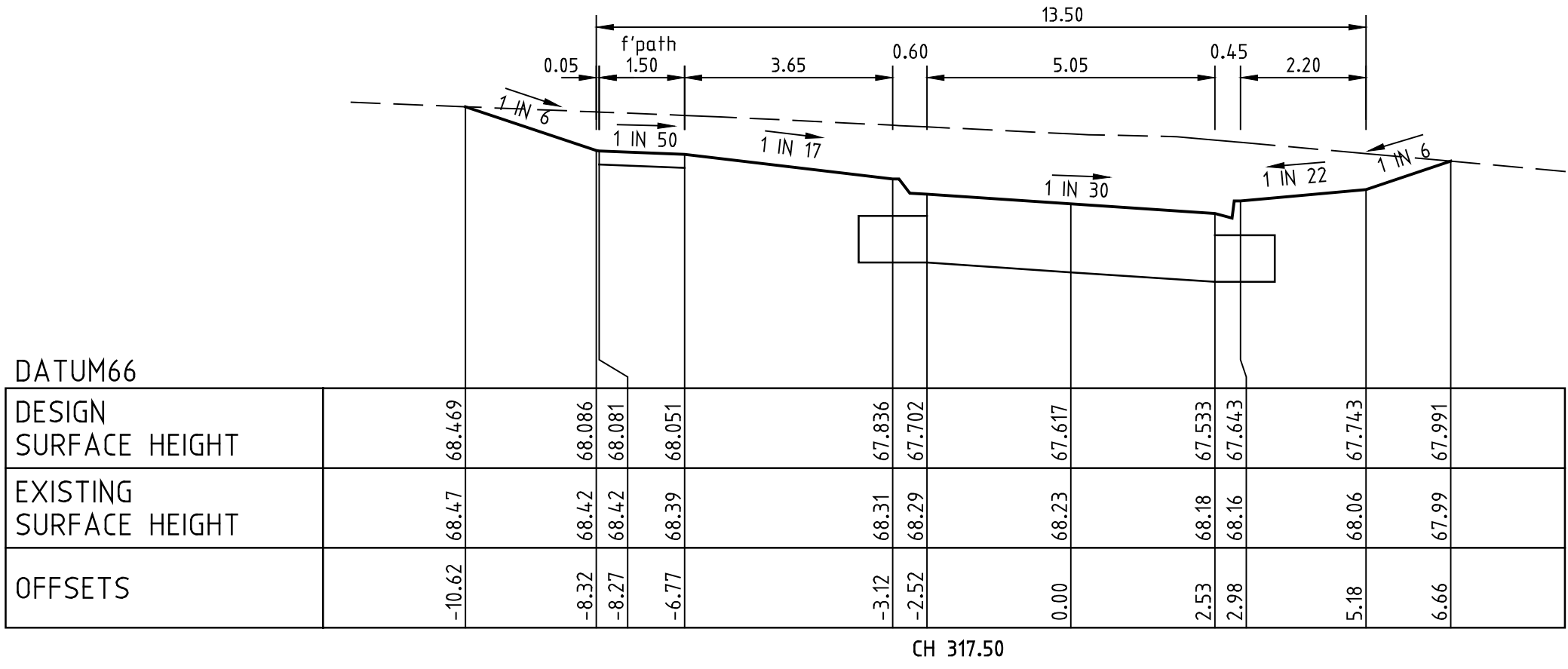
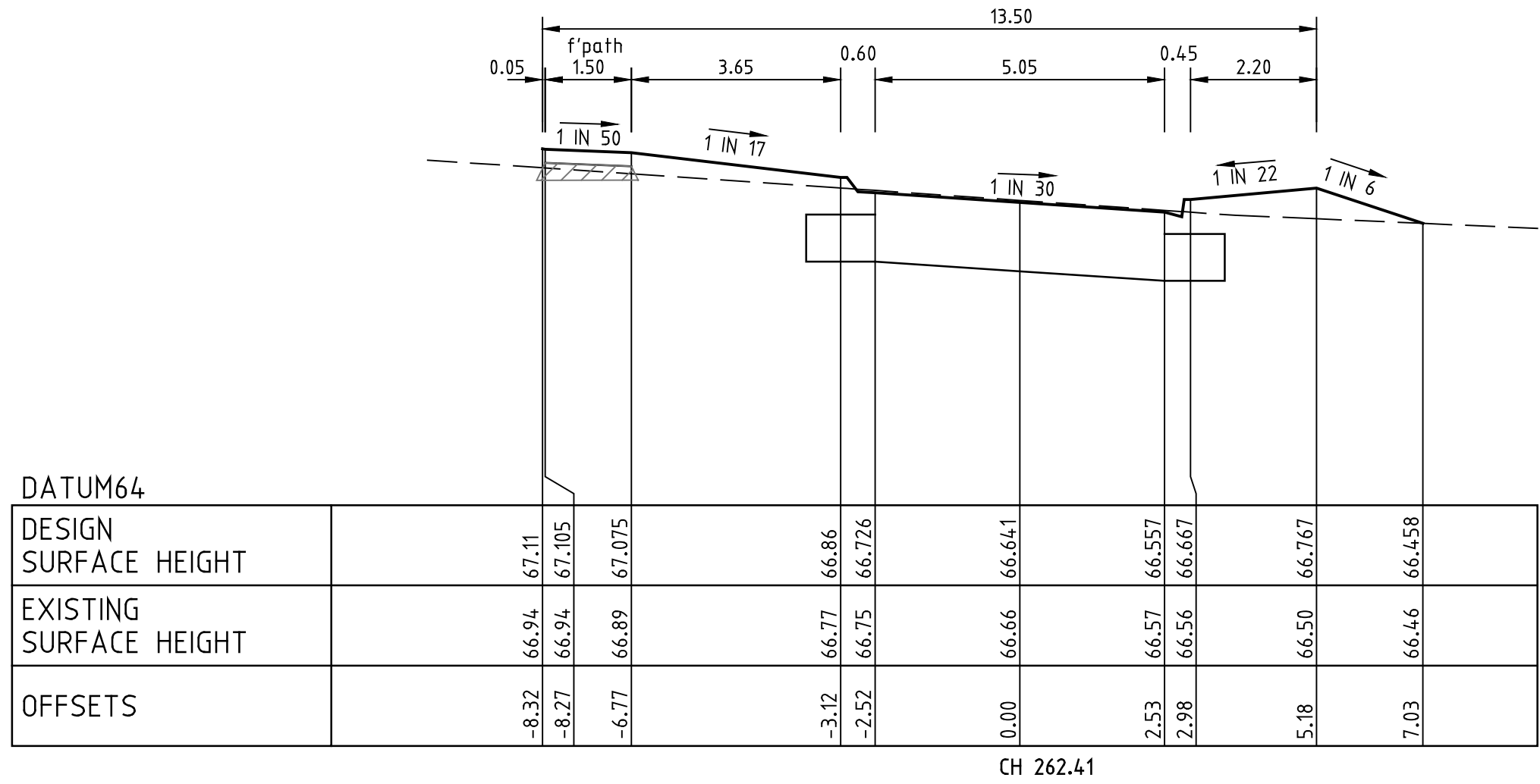


H 1: 500    0    5    10    20    30    40  
 @ A1  
 V 1: 50    0    0.5    1    2    3    4

<b>SCALE</b> AS SHOWN	
<b>LEVEL DATUM</b>	AHD
<b>SHEET</b> 11 <b>OF</b> 16	
<b>DRAWING No.</b> <b>1275/32/NE/11</b>	<b>REV.</b>  C1







### ROAD CROSS SECTIONS MONA CIRCUIT

SCALES HOR 1 : 100 VER 1 : 50



FOR CONSTRUCTION

				<b>LEGEND</b>							
-	-	-	-		GAS MAIN		HOUSE DRAIN PROPOSED/EX.		CHAINAGES AND TANGENT POINTS		
-	-	-	-		WATER MAIN		PROPERTY INLET, DRAINAGE PITS		EXISTING SURFACE LEVEL		
-	-	-	-		RECYCLED WATER MAIN		EX./FUT. INLET, DRAINAGE PITS		FINISHED LEVEL (TITLE BOUNDARY)		
-	-	-	-		ELECTRICITY CABLE		DRAINAGE PIT STAGE/NUMBER		DESIGN TOP/TOE OF BATTER LEVEL		
-	-	-	-		TELECOMMUNICATIONS CABLE		SEWER LINE AND STRUCTURES		DESIGN PAVEMENT LEVEL		
-	-	-	-		WATER CONDUIT		EX. SEWER LINE AND STRUCTURES		PROPOSED CONTOUR LINE & LEVEL		
-	-	-	-		GAS CONDUIT		KERB AND CHANNEL		EXISTING CONTOUR LINE & LEVEL		
-	-	-	-		RECYCLED WATER CONDUIT		EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm		
-	-	-	-		COMBINED SERVICES CONDUIT		KERB TO BE REMOVED OFFSITE		CATCH DRAIN AND INVERT LEVEL		
-	-	-	-		T.B.M.		P.S.M.		EX. BATTER		PROP. BATTER
C1	ISSUED FOR CONSTRUCTION	26-03-2024	M.C.								
REV.	REVISION	DATE	APPD.								

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DESIGNED: K.PHUNG  
CHECKED: M.COILE  
AUTHORISED: L.PAPAZOIS  
DATE: 28-09-2023

AUTHORITY: CITY OF MELTON  
PROJECT: MODEINA STAGE 32  
ROAD AND DRAINAGE  
DETAILS: MONA CIRCUIT CROSS SECTIONS SHEET 2 OF 2  
----

SCALE AS SHOWN  
LEVEL DATUM AHD  
SHEET 13 OF 16  
DRAWING No.  
1275/32/NE/13  
REV.  
C1



**Diagram 1: Sewer Line Cross-Section**

Diagram 1 shows a sewer line cross-section with a break into an existing pit. The diagram includes a table of data for design flow, capacity, velocity, pipe size, grade, depth to invert, invert level, finished surface level, existing surface level, and chainage.

DESIGN FLOW/ (m <sup>3</sup> /s)	CAPACITY (m <sup>3</sup> /s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	PIPE GRADE (mm)	GRADE DATUM	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE
0.190	0.249	3.53	300Ø	CLASS 2	1 in 25.4	63	65.28	64.76	67.50	67.66	0.00
0.080	0.264	3.73	300Ø	CLASS 2	1 in 22.7	1.76	68.20	67.91	69.67	69.88	49.85
0.034	0.221	3.13	300Ø	CLASS 2	1 in 32.3	1.55	71.20	70.98	72.61	72.77	117.75
							72.95	72.81	74.36	74.55	174.25

**Diagram 2: Sewer Line Cross-Section**

Diagram 2 shows a sewer line cross-section with a manhole circuit. The diagram includes a table of data for design flow, capacity, velocity, pipe size, grade, depth to invert, invert level, finished surface level, existing surface level, and chainage.

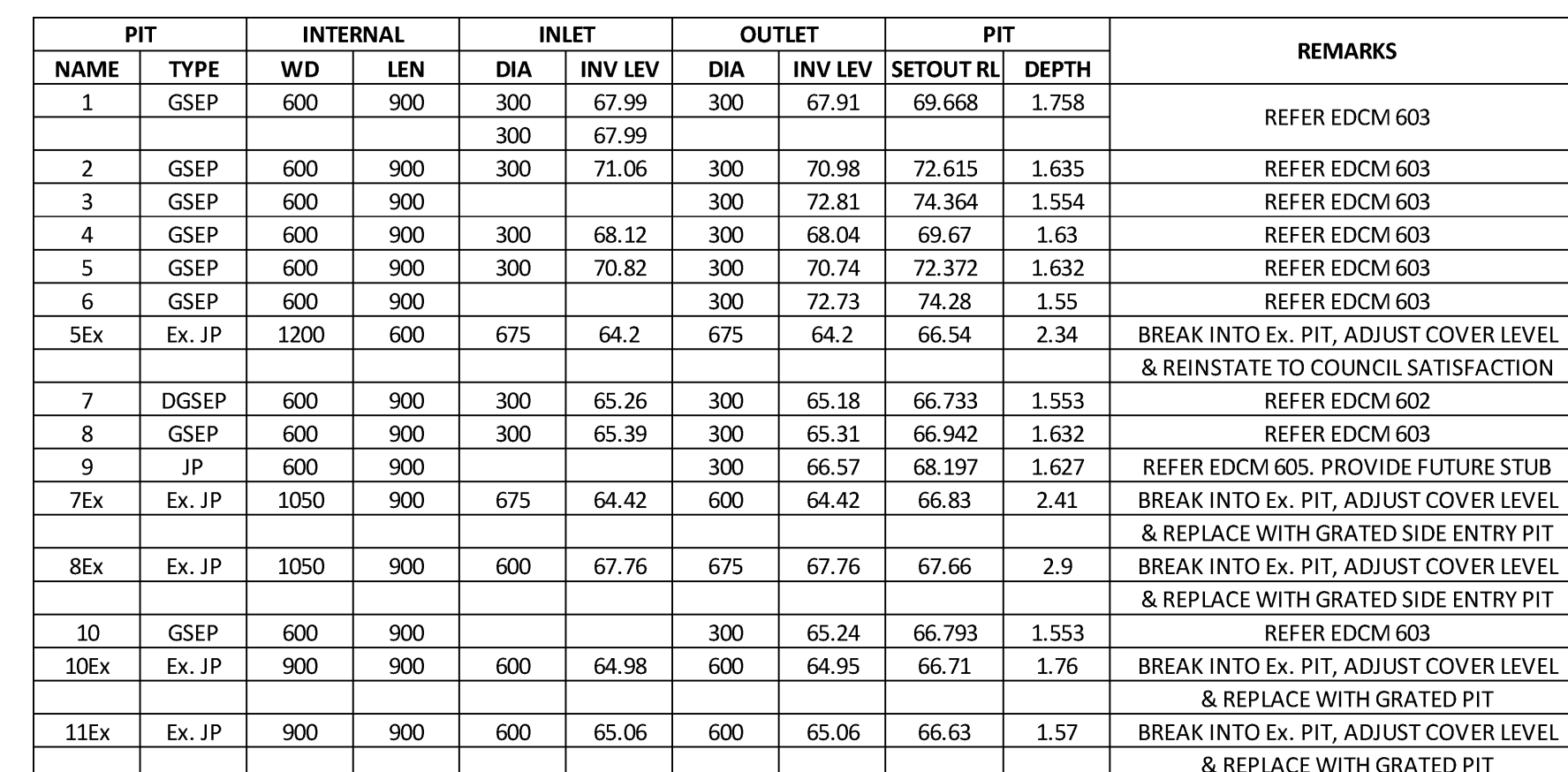
DESIGN FLOW/ (m <sup>3</sup> /s)	CAPACITY (m <sup>3</sup> /s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	PIPE GRADE (mm)	GRADE DATUM	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE
0.087	0.095	1.34	300Ø	CLASS 3	1 in 176	64	68.20	67.91	69.67	69.88	0.00
0.075	0.259	3.66	300Ø	CLASS 2	1 in 23.6	1.63	68.94	68.04	70.74	72.67	70.70
0.040	0.227	3.21	300Ø	CLASS 2	1 in 30.6	1.55	69.14	68.12	72.37	74.28	109.20
							72.95	72.81	74.36	74.55	174.25

SCALES    HOR   1 : 500    VER   1 : 50

H 1 : 500    0    5    10    20    30    40  
 @ A1  
 V 1 : 50    0    0.5    1    2    3    4

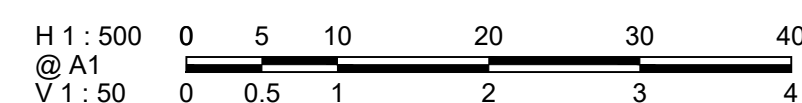
FOR CONSTRUCTION

[illegible]



NOTATION:  
JP = JUNCTION PIT  
SEP = SIDE ENTRY PIT  
DSEP = DOUBLE SIDE ENTRY PIT  
EP = END OF PIPE  
x = DOUBLE HAUNCHED PIT  
WIDTH OF PIT IS MEASURED AT THE OUTLET

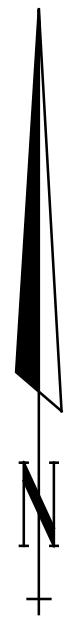
SCALES    HOR 1 : 500    VER 1 : 50



# FOR CONSTRUCTION

[illegible]





NOTE:

THE LOCATIONS OF TGSIs SHOWN ON THESE PLANS ARE INDICATIVE ONLY. TGSIs ARE TO BE INSTALLED IN ACCORDANCE WITH CITY OF MELTON STANDARD DRAWING MCC 403 AND AS 1428.4. REFER TO VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2, TABLE 18.3 FOR LINEMARKING DETAILS.

SIGNAGE LEGEND

- [A] STREET SIGN - DOUBLE BLADE
- [B] NO ROAD AND OBSTRUCTION MARKER SIGN (D4-5).
- [TGSi] TGSi - to be located and installed in accordance with AS1428.4.

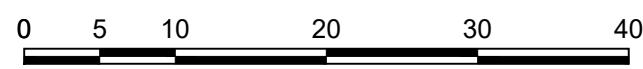


APPROVED  
DETAILED ENGINEERING PLANS  
Paul Kodikara  
ENGINEERING SERVICES  
Date: 13/05/2024



SIGNAGE & LINEMARKING PLAN

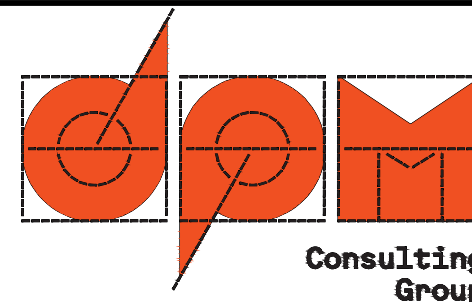
H 1 : 500  
@ A1



FOR CONSTRUCTION

				<b>LEGEND</b>							
-	-	-	-	G	GAS MAIN	H	HOUSE DRAIN PROPOSED/EX.	CH	CHAINAGES AND TANGENT POINTS	DRAWN: K.PHUNG	
-	-	-	-	W	WATER MAIN	PI	PROPERTY INLET, DRAINAGE PITS	ES	EXISTING SURFACE LEVEL	DESIGNED: K.PHUNG	
-	-	-	-	RM	RECYCLED WATER MAIN	EX	EX./FUT. INLET, DRAINAGE PITS	FL	FINISHED LEVEL (TITLE BOUNDARY)	CHECKED: M.COLE	
-	-	-	-	E	ELECTRICITY CABLE	DP	DRAINAGE PIT STAGE/NUMBER	DT	DESIGN TOP/TOE OF BATTER LEVEL	AUTHORISED: L.PAPAZOIS	
-	-	-	-	TC	TELECOMMUNICATIONS CABLE	SL	SEWER LINE AND STRUCTURES	PL	PROPOSED PAVEMENT LEVEL	DATE: 28-09-2023	
-	-	-	-	WC	WATER CONDUIT	ESL	EX. SEWER LINE AND STRUCTURES	PC	PROPOSED CONTOUR LINE & LEVEL	AUTHORITY: CITY OF MELTON	
-	-	-	-	GC	GAS CONDUIT	KC	KERB AND CHANNEL	EC	EXISTING CONTOUR LINE & LEVEL	PROJECT: MODEINA STAGE 32	
-	-	-	-	RWC	RECYCLED WATER CONDUIT	KC	EX./FUT. KERB AND CHANNEL	EC	FILLING IN EXCESS OF 200mm	DETAILS: LINEMARKINGS AND SIGN SCHEDULES	
-	-	-	-	CS	COMBINED SERVICES CONDUIT	KC	KERB TO BE REMOVED OFFSITE	CD	CATCH DRAIN AND INVERT LEVEL	SCALE 1:500	
C1	ISSUED FOR CONSTRUCTION	26-03-2024	M.C.	T.B.M.		ST	STREET SIGN	EX	EX. BATTER	LEVEL DATUM AHD	
REV.	REVISION	DATE	APPD.	P.S.M.				Y	PROP. BATTER	SHEET 16 OF 16	
										DRAWING No. 1275/32/NE/16	
										REV.	C1

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DRAWN: K.PHUNG  
DESIGNED: K.PHUNG  
CHECKED: M.COLE  
AUTHORISED: L.PAPAZOIS  
DATE: 28-09-2023

AUTHORITY: CITY OF MELTON  
PROJECT: MODEINA STAGE 32  
ROAD AND DRAINAGE  
DETAILS: LINEMARKINGS AND SIGN SCHEDULES

SCALE 1:500  
LEVEL DATUM AHD  
SHEET 16 OF 16  
DRAWING No. 1275/32/NE/16  
REV. C1