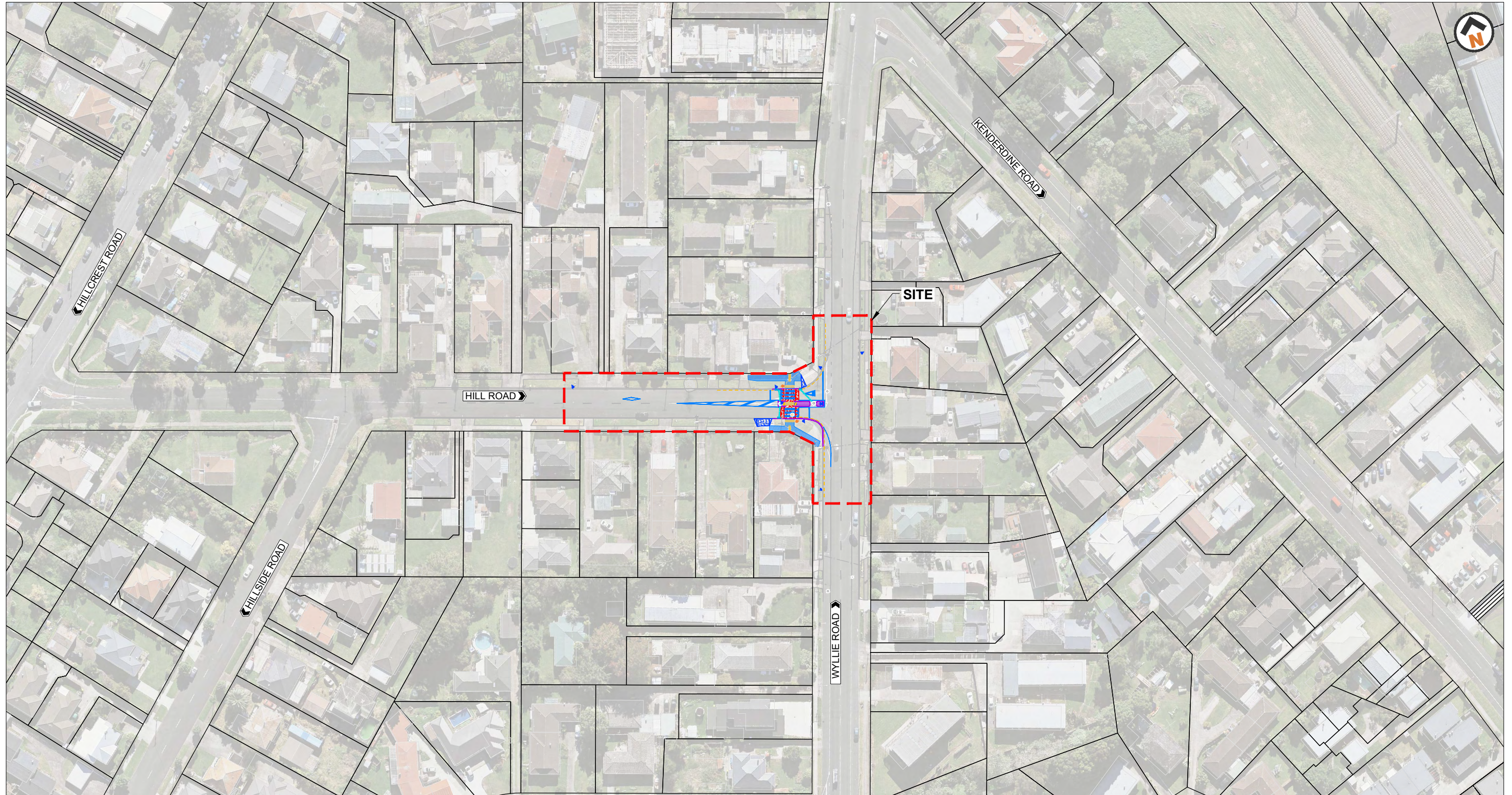




LOCAL BOARD PROJECTS - OTARA - PAPATOETOE
RAISED PEDESTRIAN CROSSING OUTSIDE 27 HILL ROAD
FOR CONSTRUCTION - JUNE 2023



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CONSTRUCTION NOTES

GENERAL

- ALL NOTES SHOWN HEREIN SHALL FORM PART OF THE CONTRACT.
- ALL NOTES SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DOCUMENTS AND DESIGN DRAWINGS.
- ALL WORKS SHALL BE CONSTRUCTED AS DETAILED IN THE DESIGN DRAWINGS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.
- CONTRACTOR SHALL LIAISE WITH SERVICE AUTHORITIES FOR LOCATION OF SERVICES PRIOR TO ANY CONSTRUCTION WORK.
- ALL CROSS REFERENCES TO STANDARD ENGINEERING DETAIL DRAWINGS AND SPECIFICATIONS SHALL BE TO THE LATEST REVISION.

SETTING OUT

- THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND VERIFY LEVELS/DIMENSIONS/SET-OUTS PRIOR TO COMMENCEMENT OF WORK AND REPORT DISCREPANCIES, IF ANY, IMMEDIATELY TO THE ENGINEER.
- THE CONTRACTOR SHALL TAKE ALL STEPS TO INVOLVE THE ENGINEER TO VERIFY THE LEVELS/DIMENSIONS/SET-OUTS ON SITE.
- ALL MEASUREMENTS ARE TAKEN FROM THE KERB FACE AND NOT THE EDGE OF CHANNEL UNLESS STATED OTHERWISE.
- ALL LEVELS/DIMENSIONS/SET-OUTS ARE IN METRES UNLESS STATED OTHERWISE.

ROADING

- ENGINEER TO ASSESS ALL CARRIAGEWAY REINSTATEMENT WORK TO CONFIRM SUITABILITY OF EXISTING MATERIAL PRIOR TO ANY REINSTATEMENT WORK. THE CONTRACTOR SHALL ALLOW IN THEIR RATES FOR THE APPROPRIATE TESTING TO CONFORM TO THE SPECIFICATIONS.
- ALL JOINTS BETWEEN THE CONTRACT WORK AND EXISTING MUST BE SAWCUT NEATLY. SAWCUTTING SHALL GENERALLY BE SQUARE AND/OR PARALLEL TO THE KERB ALIGNMENT AND/OR CARRIAGEWAY. DRY CUTTING IS NOT PERMITTED.
- THE CONTRACTOR SHALL UNDERTAKE LEVEL SURVEY ON ALL FOOTPATH AND DRAINAGE CHANNEL TO ENSURE THAT NO PONDING WILL OCCUR. WORK MAY BE REQUIRED TO EXTEND BEYOND THE LIMITS SHOWN IN THE DESIGN DRAWINGS WITH THE ENGINEER'S APPROVAL.
- TACTILE PAVERS SHALL BE SET PERPENDICULAR TO THE DIRECTION OF CROSSING AND WITHIN THE PRAM CROSSING. STAGGERED ARRANGEMENT IS GENERALLY NOT PERMITTED UNLESS SPECIFIED OTHERWISE BY THE ENGINEER.

ROADMARKINGS

- THE CONTRACTOR SHALL ENSURE THAT ALL REINSTATED ROADMARKINGS ARE TO BE EXTENDED AS REQUIRED BEYOND THE LIMITS SHOWN IN THE DRAWINGS TO ACHIEVE CONTINUITY MATCHING INTO THE EXISTING LANE MARKINGS.
- ALL REDUNDANT LANE MARKING SHALL BE PERMANENTLY REMOVED. BLACKING OUT OF MARKINGS WITH PAINT IS NOT PERMITTED.
- ALL ROADMARKINGS TO BE LAID IN TWO COATS WITHIN A MONTH OF EACH OTHER. ALL FIRST COAT MARKINGS SHALL BE OF REFLECTORISED PAVEMENT MARKINGS.
- ALL SECOND COAT BUS LANE LINES, CONTINUITY LINES, FLUSH MEDIAN BARS, NO OVERTAKING LINES, PARKING RESTRICTION LINES AND SPEED TABLE TRIANGULAR MARKINGS SHALL BE REFLECTORISED PAVEMENT MARKING. ALL OTHER ROAD MARKINGS SHALL BE LONG LIFE PAVEMENT MARKING.

GRASS AND TREES

- CONTRACTOR SHALL LIAISE WITH AUCKLAND TRANSPORT'S ARBORIST FOR ANY WORK UNDER THE DRIPLINE AND CRITICAL ROOT ZONE. LIAISON SHALL BE MADE WELL IN ADVANCE OF ANY CONSTRUCTION WORK.
- THE CONTRACTOR SHALL LIAISE WITH AUCKLAND TRANSPORT'S NOMINATED ARBORIST FOR ALL TREE REMOVAL, PLANTING AND PRUNING WORKS.
- THE CONTRACTOR SHALL LIAISE WITH PARKS, RECREATION AND SPORTS DEPARTMENT OF AUCKLAND COUNCIL FOR ALL LANDSCAPING WORKS.

UNDERGROUND AND ABOVE GROUND UTILITIES NOTES

GENERAL

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE LATEST SERVICE PLANS FROM SERVICE PROVIDERS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMISSIONS AND PERMITS TO COMMENCE WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY UNDER THE HEALTH AND SAFETY EMPLOYMENT ACT2016, WHEREBY THE LOCATION OF ALL UNDERGROUND UTILITIES MUST BE ESTABLISHED BEFORE COMMENCING EXCAVATION AND TO HAND EXPOSE ANY PIPES AND CABLES BEFORE USING MACHINERY.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ALLOW FOR ADEQUATE NOTICE WHEN REQUESTING FOR PLANS, MARK-OUTS AND PERMITS FROM THE UTILITY PROVIDERS.
- THE ACCURACY OF THE UTILITY PLANS PROVIDED BY THE RELEVANT AUTHORITIES CANNOT ALWAYS BE GUARANTEED. ROAD REALIGNMENT, RECONSTRUCTION AND CHANGES TO PROPERTY BOUNDARIES CAN ALL AFFECT ACCURACY.
- ALTERATIONS TO THE GROUND COVER MAY REDUCE OR INCREASE CABLE OR PIPE DEPTHS. EXPECT A CABLE OR PIPE TO BE AT ANY DEPTH. THE CONTRACTOR SHALL HAND DIG TO CONFIRM THE LOCATION OF CABLES OR PIPES.
- WHERE A CABLE OR PIPE LOCATION HAS BEEN CARRIED OUT BY THE RELEVANT UTILITY PROVIDERS, ALLOW 0.5 METRES TOLERANCE FOR THE UNCERTAINTY IN THE ACCURACY OF THE LOCATING DEVICE.
- CABLE LOCATIONS MARKED ON SITE ARE ONLY VALID FOR 7 DAYS AFTER WHICH REMARKING IS REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE RELEVANT UTILITY PROVIDERS WITHOUT DELAY IF ANY DAMAGE IS DONE TO THE UTILITIES (CABLE, WIRE OR PIPE).
- ALL SERVICES SHALL BE ASSUMED TO BE LIVE UNTIL DISCONNECTED BY THE RELEVANT UTILITY PROVIDERS AND PROVED SAFE AT THE POINT OF WORK. WRITTEN CONFIRMATION OF DISCONNECTION SHOULD BE OBTAINED FROM THE SERVICE OWNER BEFORE REMOVING A REDUNDANT SERVICE.

VECTOR (GAS)

- SPECIAL CONDITIONS APPLY FOR HIGH PRESSURE GAS PIPELINE (HP PIPE, IP20 PIPE, IP10 PIPE AND MP7 PIPE). A PERMIT IS REQUIRED FOR ANY EXCAVATION WITHIN 2 METRES OF THESE PIPELINES.
- THE CONTRACTOR MUST OBTAIN A PERMIT FOR ALL WORKS NEAR A TRANSMISSION PIPELINE. VECTOR'S REPRESENTATIVE WILL MEET THE CONTRACTOR ON SITE ON THE DAY THE WORK IS TO BE UNDERTAKEN TO LOCATE THE PIPELINE AND WILL ISSUE A PERMIT TO WORK.
- VECTOR WILL PROVIDE A PLAN SHOWING LOCATION OF GAS DISTRIBUTION NETWORK ASSETS, MARK THE LOCATION OF ASSETS AND PROVIDE A STANDOVER SERVICE WHILE EXCAVATIONS ARE BEING MADE AT THE WORK SITE

VECTOR (POWER)

- IF THE WORKS ARE CLOSE TO A HIGH VOLTAGE SUB-TRANSMISSION CABLE, ABOVE 11,000 VOLTS, THE CONTRACTOR IS REQUIRED TO OBTAIN A PERMIT.
- SUB-TRANSMISSION CABLES OPERATE AT HIGHER VOLTAGES AND ARE CRITICAL TO THE SECURITY OF ELECTRICITY SUPPLY OVER EXTENSIVE AREAS. A VECTOR REPRESENTATIVE MUST BE ON SITE DURING ANY EXCAVATION WORKS IN THE VICINITY (GENERALLY WITHIN 1 METRE) OF SUCH CABLES. IN THE CASE OF A SUB-TRANSMISSION JOINT BAY, THERE MAY BE A NUMBER OF CABLES AND OIL LINES NOT SHOWN ON THE PLAN.
- WHEN EXCAVATING WITHIN 1 METRE OF A CABLE KNOWN LOCATION, USE HAND TOOLS ONLY.
- FOR THRUSTING, IT IS RECOMMENDED THAT THE POWER CABLES ARE EXPOSED AND THAT THE THRUST IS DIRECTED AWAY FROM THE CABLES. UNDER NO CIRCUMSTANCES SHALL THE THRUSTING BE TOWARDS A SUB-TRANSMISSION CABLE. WHEN THRUSTING PARALLEL TO A CABLE, IT IS RECOMMENDED THAT A CLEARANCE OF 3 METRES BETWEEN THE LINE OF THE THRUST AND THE CABLE IS MAINTAINED.
- A LOOP OF CABLE MAY BE IN THE GROUND AT THE BASE OF ANY POLE AND ITS POSITION MAY NOT BE FULLY DETAILED ON THE PLAN. CABLES ARE NORMALLY COVERED WITH PRE-CAST CONCRETE CABLE COVERS, BLACK PLASTIC CABLE COVERS OR 75MM X 25MM TIMBER BATTENS. WHERE SHOWN IN DUCTS OR MARKED THRUST, THE CABLES ARE NOT PROTECTED.
- BARE COPPER EARTHING WIRES NOT SHOWN ON THE PLAN MAY BE EXPOSED DURING EXCAVATION. THESE WIRES ARE ESSENTIAL FOR THE SAFE OPERATION OF THE VECTOR NETWORK.
- SERVICE CABLES TO A PROPERTY MAY BE SHOWN. WHERE CUSTOMER SERVICE CONNECTIONS ARE SHOWN, THESE INDICATE THE POSITION WHERE THE CABLE CROSSES THE FRONT BOUNDARY ONLY.

CHORUS (TELECOM)

- IN INSTANCES WHERE FIBRE OPTIC AND/OR HIGH CAPACITY CABLES ARE POTENTIALLY AT RISK AND ARE WITHIN 1 METRE OF THE EXCAVATION AREA, A CHORUS (TELECOM) REPRESENTATIVE MUST BE ON SITE DURING ANY EXCAVATION WORKS.

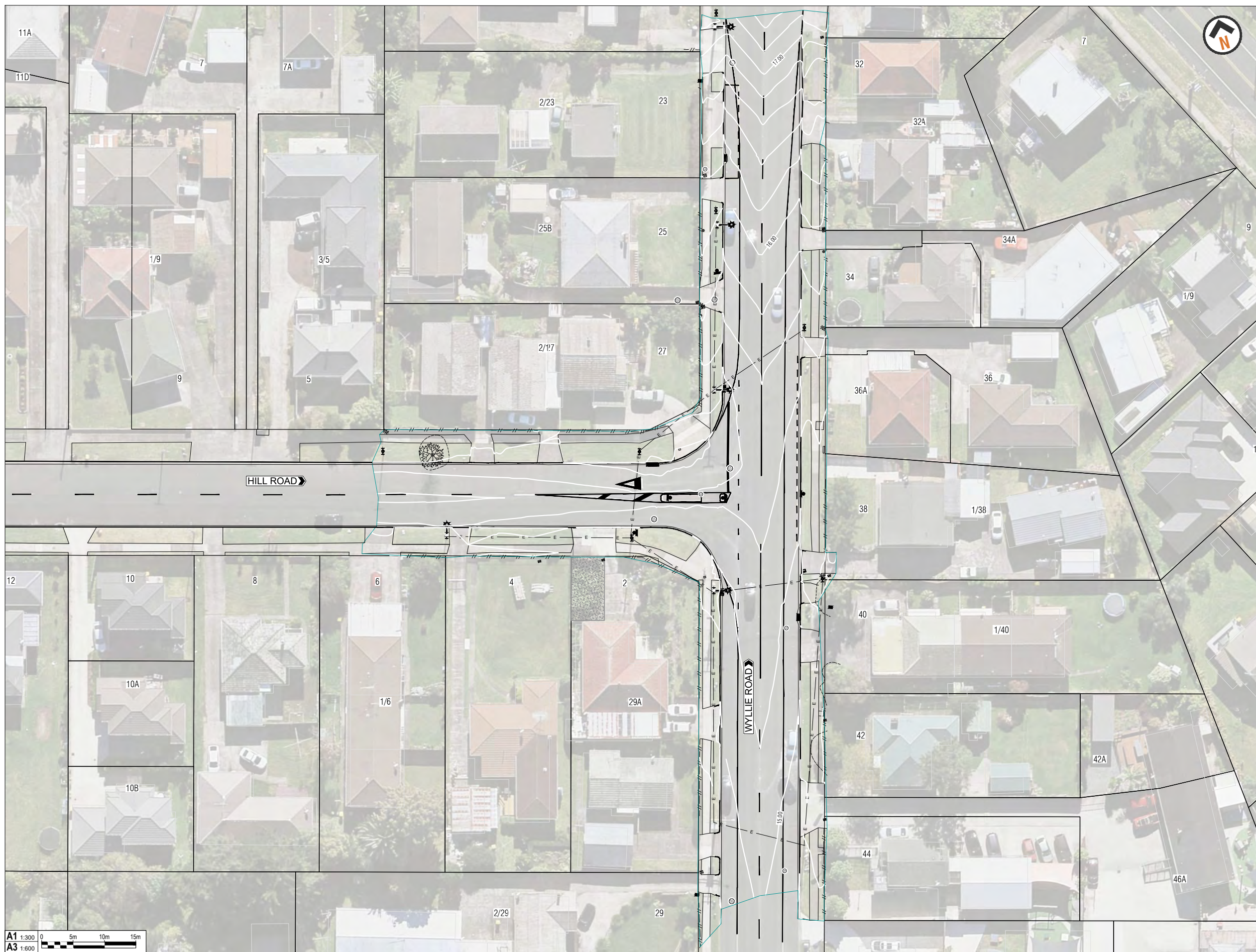
WATERCARE

- AS PROPOSED IMPROVEMENTS REQUIRES WORK CLOSE TO WATERCARE ASSET, A WATERCARE PERMIT TO WORK MUST BE OBTAINED, IN ADVANCE, PRIOR TO CONSTRUCTION WORKS.

OVERHEAD CABLES

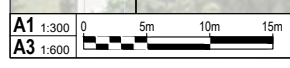
- AS PROPOSED IMPROVEMENTS REQUIRES WORK UNDER OVERHEAD POWER LINE, AN OVERHEAD PERMIT TO WORK MUST BE OBTAINED, IN ADVANCE, PRIOR TO CONSTRUCTION WORKS.

		DESIGN	Raymond Tong		Project: RAISED PEDESTRIAN CROSSING OUTSIDE 27 HILL ROAD Drawing Title: DRAWING INDEX AND NOTES	Drawing Status: FOR CONSTRUCTION	
		DESIGN CHECK	Sagar kariya			Drawing No: 2022-AT-010-02_G001 Revision: 1	
		APPROVED	Sagar kariya				
1	FOR CONSTRUCTION	SK		DATE	06/06/2023		
REV	REVISIONS	APPROVED					



NOTES
1. CONTOUR INTERVAL : MAJOR - 1.0m
MINOR - 0.2m

- LEGEND**
- PROPERTY BOUNDARY
 - KERB AND CHANNEL
 - FOOTPATH / VEHICLE CROSSING / PRAM CROSSING
 - ROAD MARKING
 - - - NO STOPPING LINE
 - TRAFFIC ISLAND
 - /- FENCE
 - ☼ STREET LIGHT
 - ▩ CATCHPIT
 - ⊙ MANHOLE - STORMWATER
 - ⊙ MANHOLE - SEWER
 - ⊘ METAL GATE
 - ⊙ WATER METER
 - ⊙ TRAFFIC SIGN / BELISHA
 - ⊙ POWER POLE
 - E- OVERHEAD POWER LINE
 - ⊙ VALVE
 - ☼ POWER BOX
 - ⊕ ELECTRICAL HOLE
 - ⊕ TELECOMMUNICATION HOLE
 - MAILBOX
 - ⊙ FIRE HYDRANT
 - DRIP LINE
 - 🌳 TREE
 - SURVEY BOUNDARY



DESIGN	Raymond Tong
DESIGN CHECK	Sagar kariya
APPROVED	Sagar kariya
DATE	06/06/2023

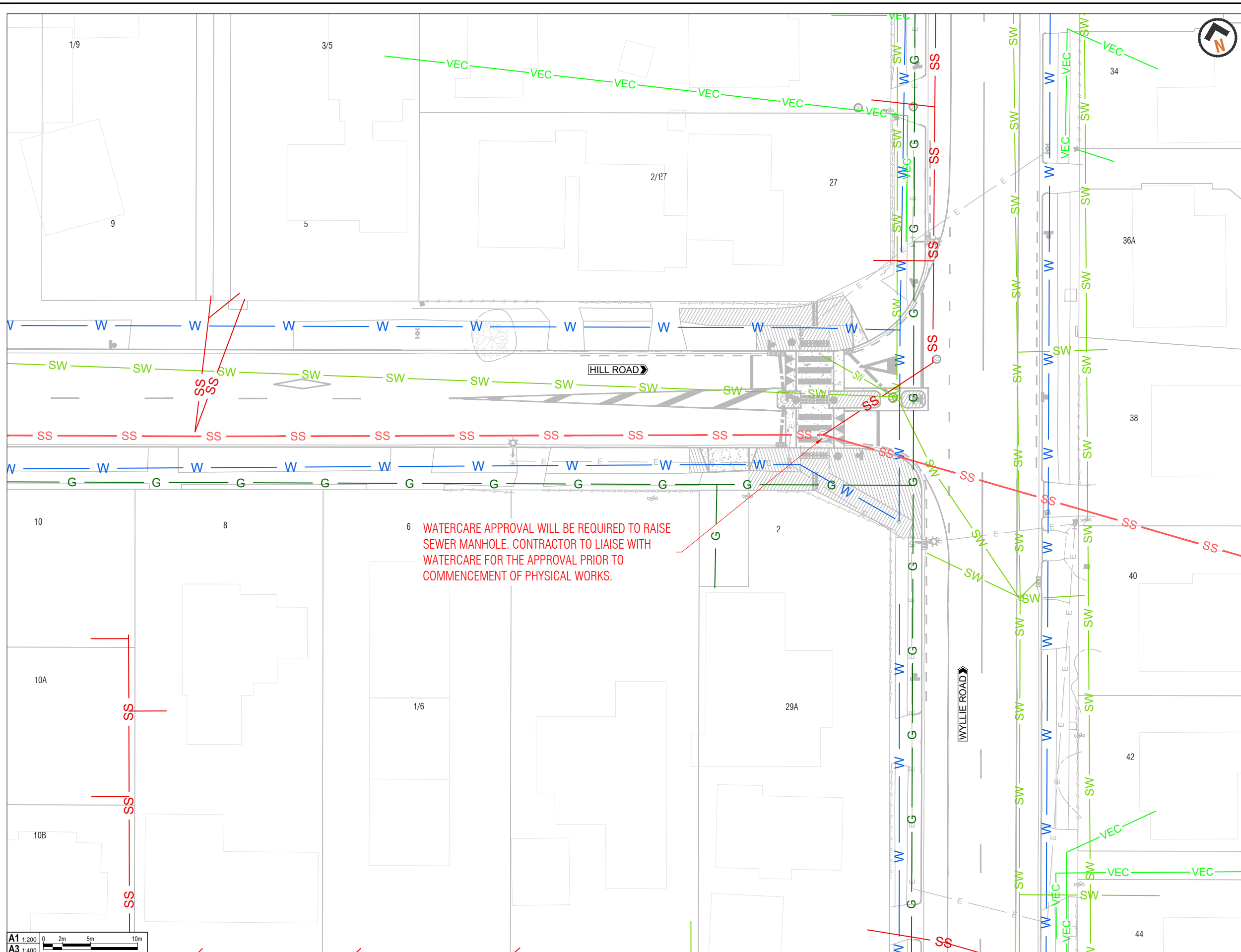


Project: RAISED PEDESTRIAN CROSSING OUTSIDE 27 HILL ROAD
Drawing Title: EXISTING LAYOUT WITH TOPOGRAPHICAL SURVEY PLAN

FOR CONSTRUCTION

Drawing No: 2022-AT-010-02_G005
Revision: 1

1	FOR CONSTRUCTION	SK
REV	REVISIONS	APPROVED



NOTE
SOURCE OF UNDERGROUND SERVICES - AUCKLAND COUNCIL GIS VIEWER AND BEFOREUDIG. A DETAILED UNDERGROUND INVESTIGATION IS RECOMMENDED TO BE UNDERTAKEN PRIOR TO ANY PHYSICAL WORKS

LEGEND

	PROPERTY BOUNDARY
	GAS PIPE
	WATER PIPE
	STORMWATER PIPE
	WASTEWATER PIPE
	WASTEWATER PIPE (CRITICAL)
	ELECTRICITY CABLE (400V)

A1	1:200
A3	1:400

6 WATERCARE APPROVAL WILL BE REQUIRED TO RAISE SEWER MANHOLE. CONTRACTOR TO LIAISE WITH WATERCARE FOR THE APPROVAL PRIOR TO COMMENCEMENT OF PHYSICAL WORKS.

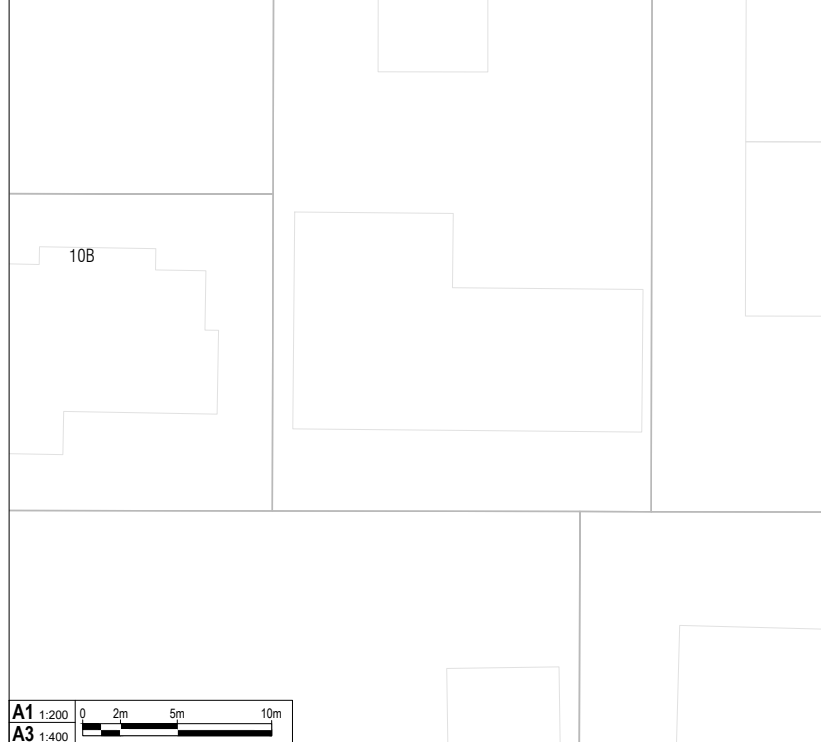
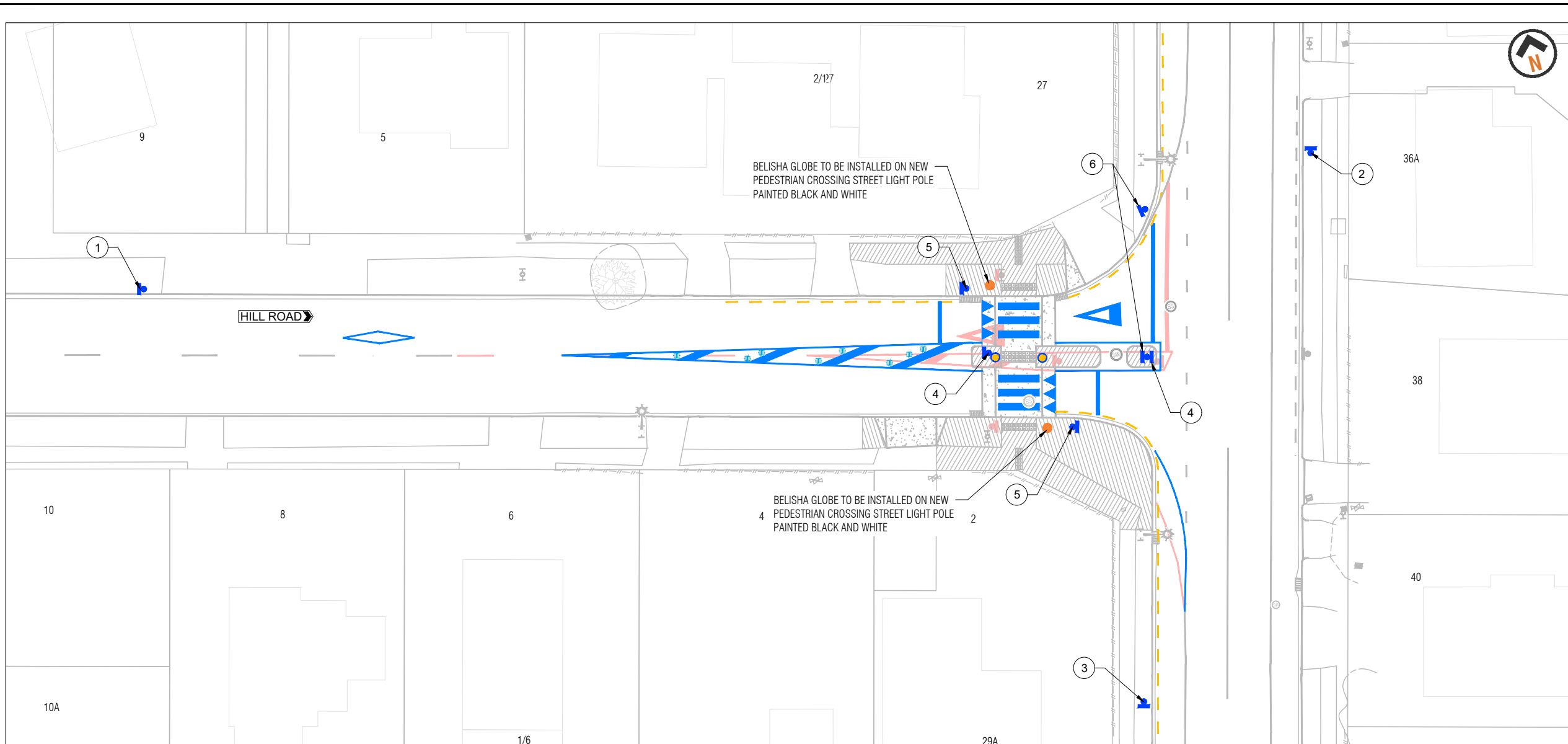
REV	FOR CONSTRUCTION	SK APPROVED	DATE
1	FOR CONSTRUCTION	SK	06/06/2023

DESIGN	Raymond Tong
DESIGN CHECK	Sagar kariya
APPROVED	Sagar kariya
DATE	06/06/2023

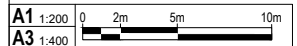


Project:	RAISED PEDESTRIAN CROSSING OUTSIDE 27 HILL ROAD
Drawing Title:	EXISTING SERVICES PLAN

Drawing No:	2022-AT-010-02_G010	Revision:	1
FOR CONSTRUCTION			



ROADMARKING SPECIFICATIONS		
MARKING	SYMBOL (NOT TO SCALE)	SPECIFICATIONS
LIMIT LINE GIVEWAY		300mm WIDE REFLECTORISED WHITE CONTINUOUS LINE
EDGE LINE		100mm WIDE REFLECTORISED WHITE CONTINUOUS LINE
ZEBRA MARKING		600mm WIDE THERMOPLASTIC WHITE LINE. 0.6m WIDE, 0.6m GAP
TRIANGLE MARKING		REFLECTORISED WHITE TRIANGLE MARKING
ADVANCED WARNING DIAMOND		REFLECTORISED WHITE AS PER FIGURE 4.6 MOTSAM PART II SECTION 4
NO STOPPING AT ALL TIMES LINE < 30m LONG		100mm WIDE REFLECTORISED YELLOW LINE, 1m STRIPE, 1m GAP (2m GAP IF OVER 30m)
FLUSH MEDIAN		100mm WIDE REFLECTORISED WHITE CONTINUOUS EDGE LINES AND 600mm WIDE REFLECTORISED DIAGONAL BARS @ 1:2 SLOPE
GIVE WAY TRIANGLE		REFLECTORISED WHITE AS PER FIGURE 3.9a MOTSAM PART II SECTION 3



- ROAD MARKING NOTES**
- ALL MARKING SHALL COMPLY WITH THE NZTA MANUAL OF TRAFFIC SIGNS AND MARKINGS (MOTSAM), PART II MARKINGS.
 - ALL MARKINGS SHALL COMPLY WITH TNZ P12 SPECIFICATION.
 - ALL RAISED PAVEMENT MARKERS SHALL COMPLY WITH TNZ P14 SPECIFICATION.
 - ALL REDUNDANT MARKINGS SHALL BE PERMANENTLY REMOVED BY WATER BLASTING.
 - MARKINGS ARE TO BE REFLECTORISED OTHER THAN THERMOPLASTIC MARKINGS ON SPEED TABLE.
 - THERMOPLASTIC PAINT SHALL BE APPLIED IN A LAYER BETWEEN 2mm AND 3mm THICK.

- TRAFFIC SIGNS**
- INSTALL PW-30 'PEDESTRIAN CROSSING' SIGN ON STEEL POST WITH GROUND MOUNTED SOCKET
 - INSTALL PW-30 'PEDESTRIAN CROSSING' SIGN WITH 'ON RIGHT' SUPPLEMENTARY SIGN ON A STEEL POST WITH GROUND MOUNTED SOCKET
 - INSTALL PW-30 'PEDESTRIAN CROSSING' SIGN WITH 'ON LEFT' SUPPLEMENTARY SIGN ON A STEEL POST WITH GROUND MOUNTED SOCKET
 - INSTALL RG-17 'KEEP LEFT' SIGN ON VERTIFLEX POST WITH SURFACE MOUNTED SOCKET
 - INSTALL PW-39 'SPEED HUMP' SIGN WITH PW-25 'ADVISORY SPEED' SUPPLEMENTARY SIGN ON A STEEL POST WITH GROUND MOUNTED SOCKET
 - INSTALL RG-6 'GIVE WAY' SIGN ON STEEL POST WITH GROUND MOUNTED SOCKET ON GRASS AND ON VERTIFLEX POST WITH SURFACE MOUNTED SOCKET ON TRAFFIC ISLAND
 - INSTALL NEW PW-65 'BELISHA DISC' ON STEEL POLE PAINTED BLACK AND WHITE

- ROAD MARKING LEGEND**
- EXISTING SIGN
 - NEW / RELOCATED SIGN
 - EXISTING SIGN TO BE REMOVED
 - KERB / ROAD MARKING REMOVED
 - EXISTING ROAD MARKING
 - NEW WHITE ROAD MARKING
 - NEW NO PARKING LINES
 - NEW BIDIRECTIONAL WHITE RRPM
 - NEW FLASHING GLOBE

REV	FOR CONSTRUCTION	SK APPROVED	DATE
1	FOR CONSTRUCTION	SK APPROVED	06/06/2023

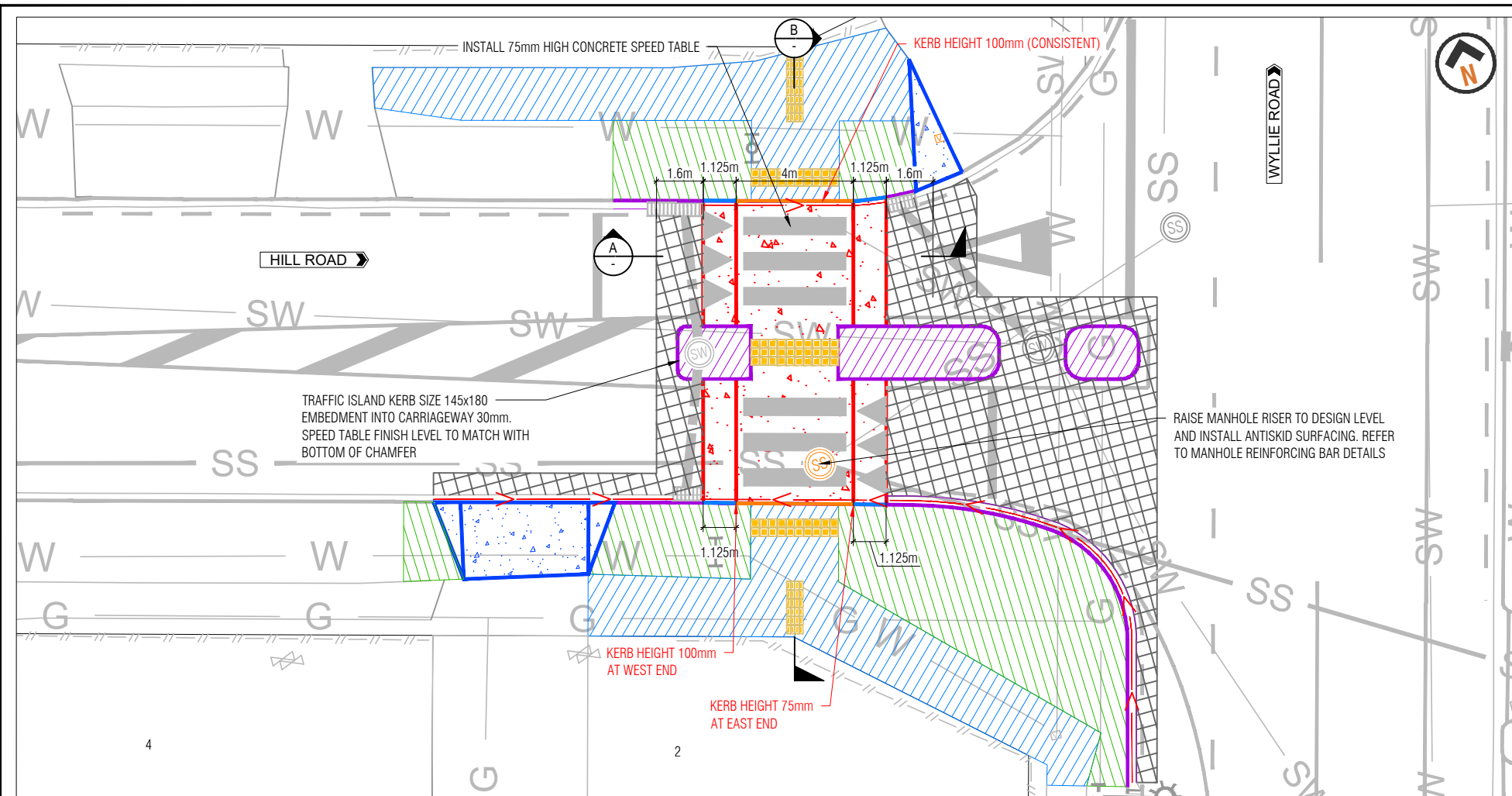
DESIGN	Raymond Tong
DESIGN CHECK	Sagar kariya
APPROVED	Sagar kariya
DATE	06/06/2023



Project: RAISED PEDESTRIAN CROSSING OUTSIDE 27 HILL ROAD
 Drawing Title: TRAFFIC SIGNS AND ROADMARKING PLAN

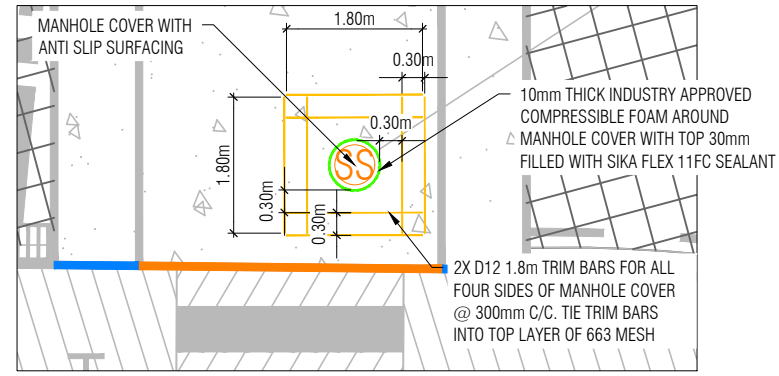
Drawing Status: **FOR CONSTRUCTION**
 Drawing No: 2022-AT-010-02_G040
 Revision: 1

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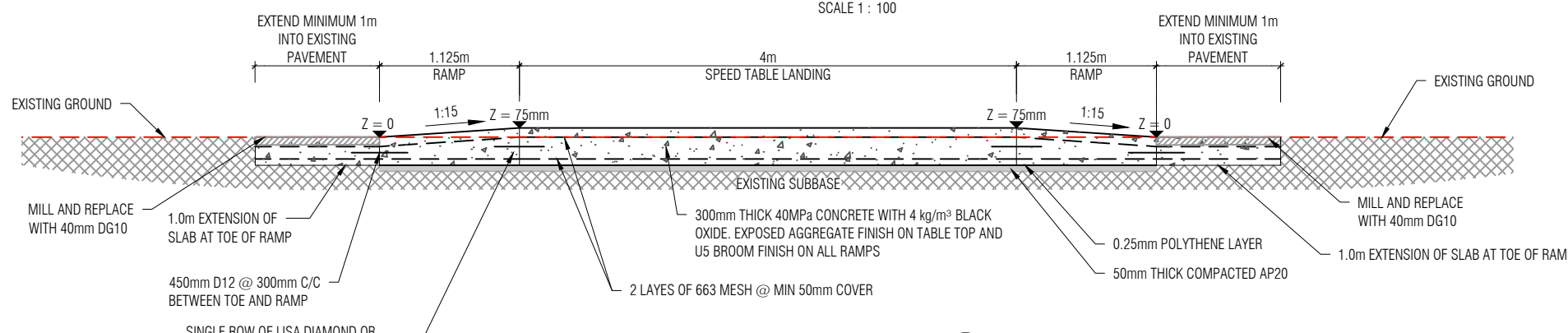
PLAN
SCALE 1 : 100

- NOTES**
1. THE EXISTING PAVED SURFACE (CONCRETE OR ASPHALT) SHALL BE COATED WITH APPROVED BONDING AGENT PRIOR TO THE PLACING OF ANY MORTAR BEDDING OR CONCRETE BACKING MATERIAL.
 2. EXISTING SERVICE CHAMBERS, VALVES AND MANHOLES THAT FALL WITHIN THE AREA OF WORKS TO BE MADE FLUSH WITH NEW SURFACE LEVEL.
 3. FOOTPATH TO BE SAWCUT PERPENDICULAR TO THE KERB. MATCH NEW FOOTPATH TO EXISTING AND ENSURE A SMOOTH AND LEVELED TRANSITION IS ACHIEVED.
 4. MILL 40mm AND REPLACE WITH DG10 INCLUDING TACK COAT. SAWCUT PAVEMENT AT LEAST 600mm FROM NEW OR EXISTING CHANNEL LIP (WHICHEVER IS APPROPRIATE). JOINT TO BE CRACK SEALED.

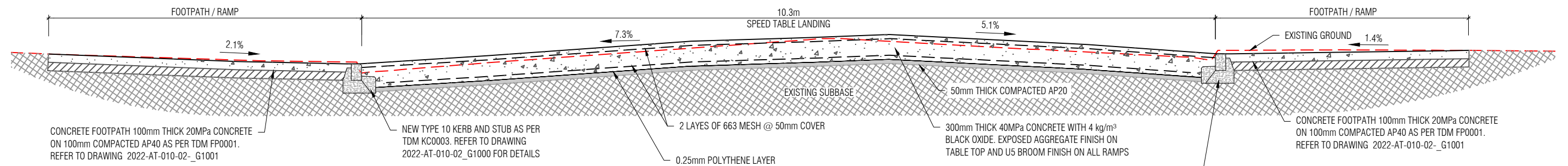


MANHOLE REINFORCING BAR DETAILS

- LEGEND**
- PROPERTY BOUNDARY
 - ROAD MARKING / KERBLINE
 - - - NO STOPPING LINE
 - KERB TRANSITION
 - NEW TYPE 1 KERB AND CHANNEL AS PER TDM KC001. REFER TO DRAWING 2022-AT-010-02_G1000 FOR DETAILS
 - NEW TYPE 10 KERB AND STUB TO MATCH WITH SPEED TABLE LEVEL AS PER TDM KC003. REFER TO DRAWING 2022-AT-010-02_G1000 FOR DETAILS
 - NEW TRAFFIC ISLAND AS PER TDM IS0002. REFER TO DRAWING 2022-AT-010-02_G1002 FOR DETAILS
 - NEW CONCRETE FOOTPATH WITH 4 kg/m³ BLACK OXIDE AS PER TDM FP001 AND FP002. REFER TO DRAWING 2022-AT-010-02_G1001 FOR DETAILS
 - GRASS
 - VEHICLE CROSSING AS PER TDM VX0103. REFER TO DRAWING 2022-AT-010-02_G1002 FOR DETAILS
 - MILL AND FILL WITH 40mm DG10
 - NEW SUBSOIL DRAIN AS PER AT TDM RD010
 - NEW WARNING AND DIRECTIONAL TACTILE PAVER MANUFACTURED AND INSTALLED IN ACCORDANCE WITH AS/NZS 14284 AND LTNZ RTS 14
 - RESET SERVICE COVERS TO DESIGN LEVEL



SECTION - SPEED TABLE
SCALE : 1:25 @ A1

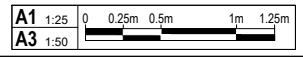


SECTION - SPEED TABLE
SCALE : 1:25 @ A1

NEW TYPE 10 KERB AND STUB AS PER TDM KC003. REFER TO DRAWING 2022-AT-010-02_G1000 FOR DETAILS

- NOTES**
1. POSITION OF CONSTRUCTION JOINT IS SITE SPECIFIC.
 2. CONSTRUCTION TOLERANCE +/-5mm

DO NOT SCALE - IF IN DOUBT, ASK



ORIGINAL SIZE A1

REV	FOR CONSTRUCTION	SK APPROVED	DATE
1	FOR CONSTRUCTION	SK APPROVED	06/06/2023

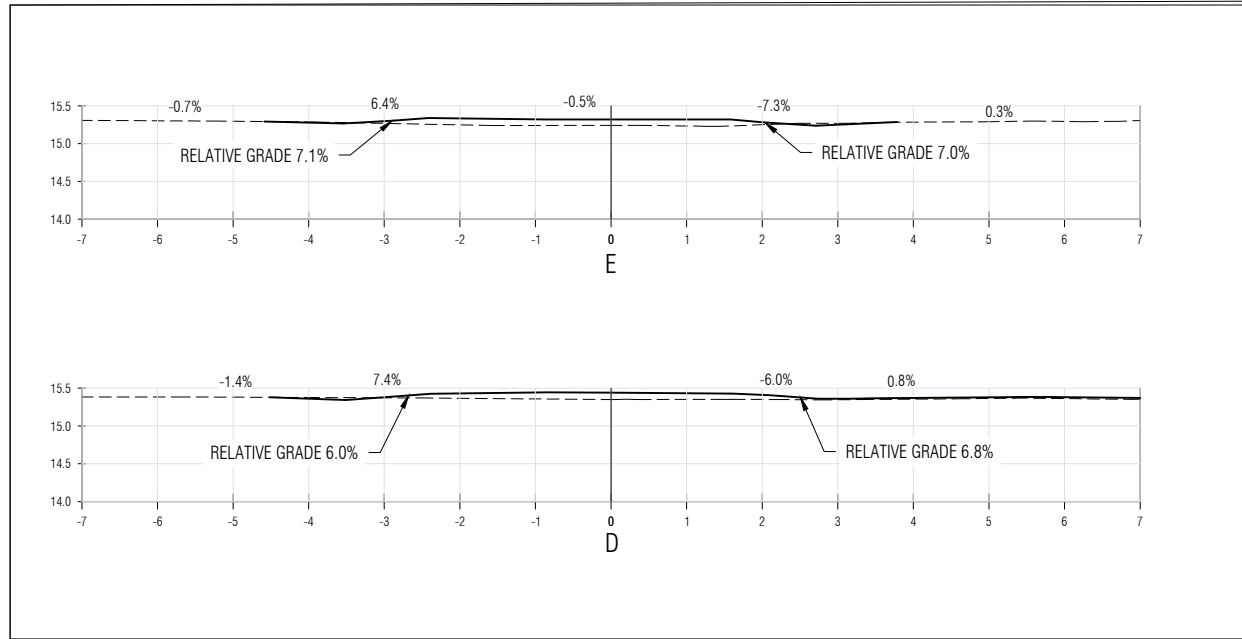
DESIGN	Raymond Tong
DESIGN CHECK	Sagar kariya
APPROVED	Sagar kariya
DATE	06/06/2023



Project: RAISED PEDESTRIAN CROSSING OUTSIDE 27 HILL ROAD
Drawing Title: CIVIL WORKS AND TYPICAL CROSS SECTION PLAN

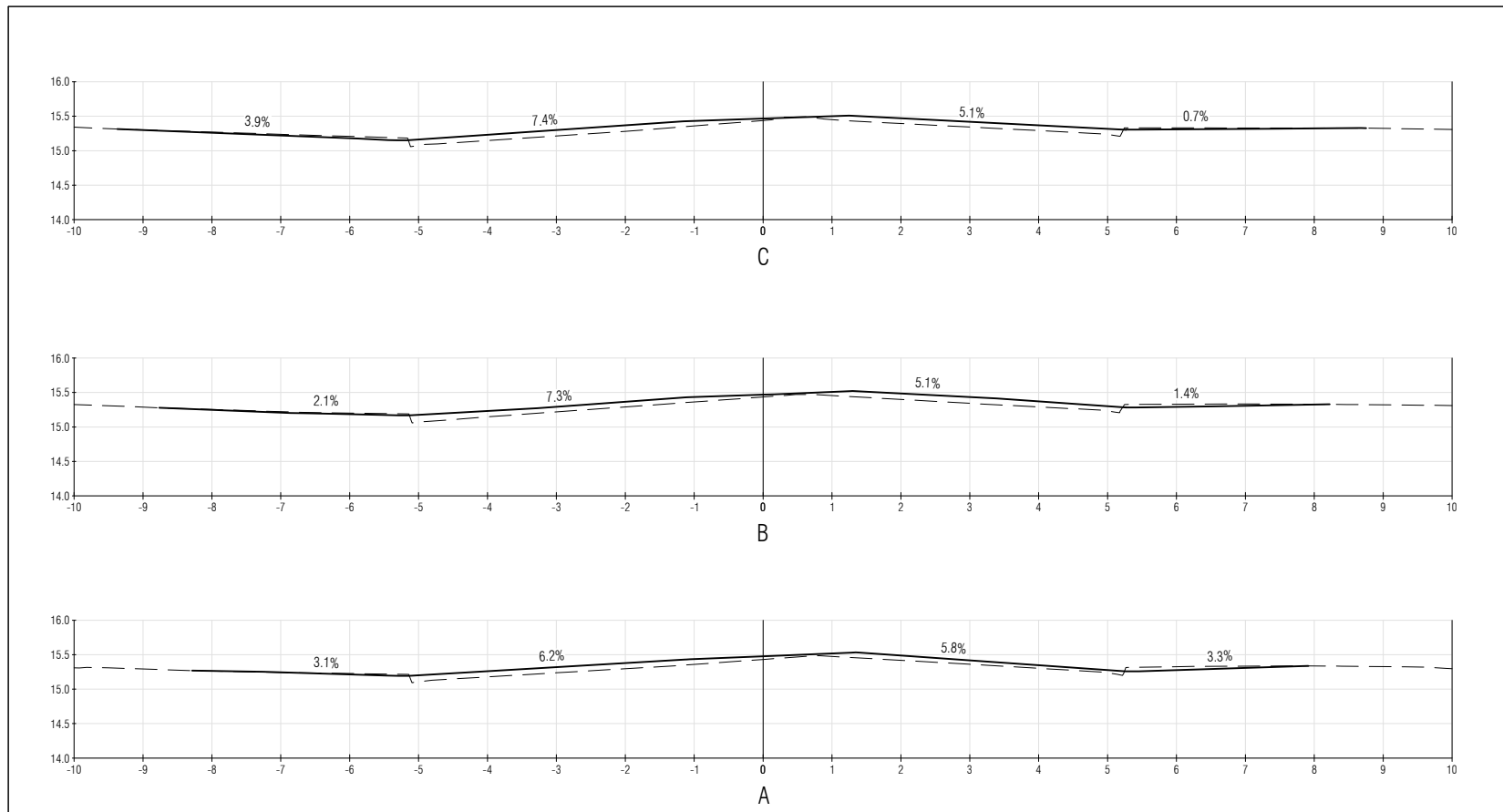
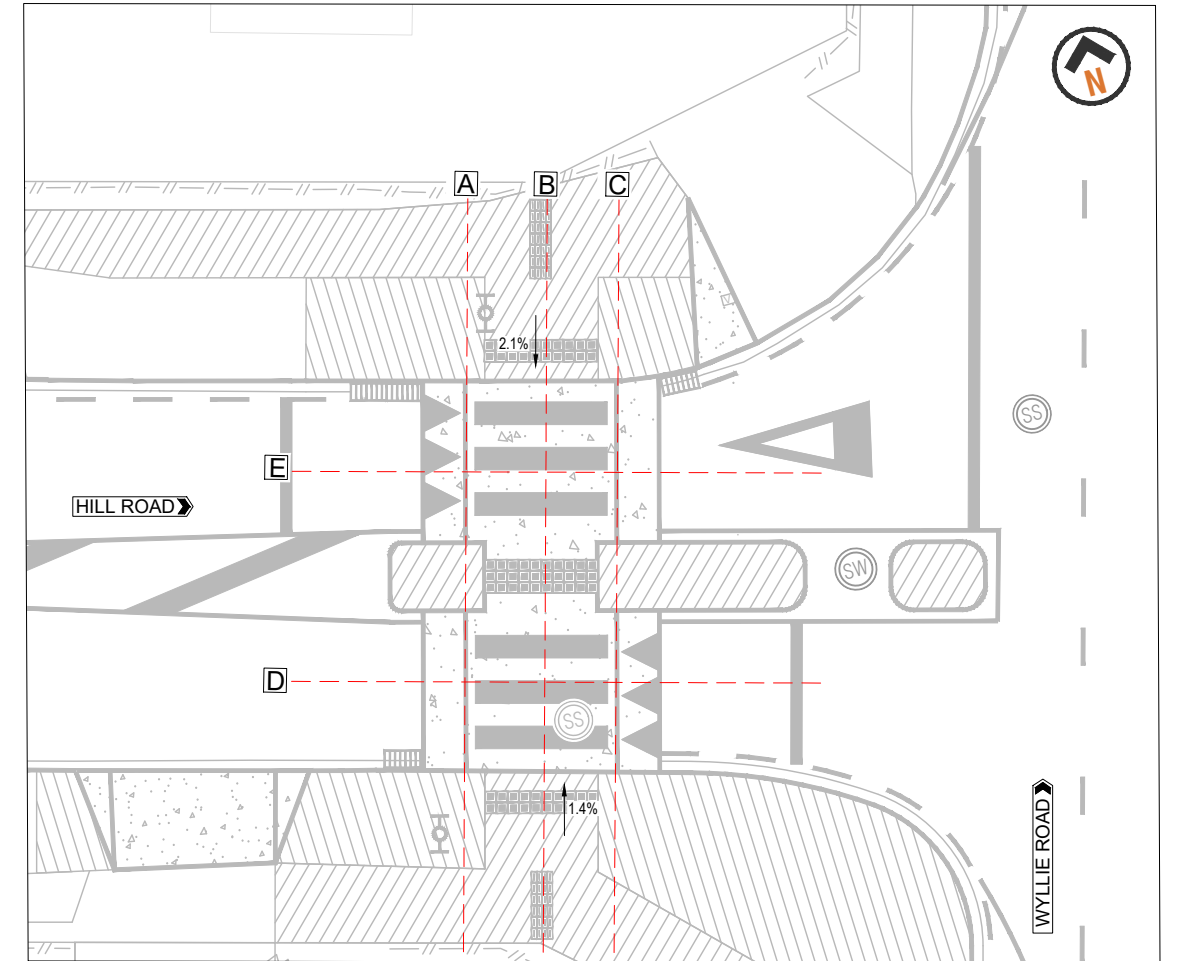
FOR CONSTRUCTION
Drawing No: 2022-AT-010-02_G050
Revision: 1

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DESIGN CROSS SECTIONS - ALONG SPEED TABLE

SCALES - H 1 : 50
V 1 : 50

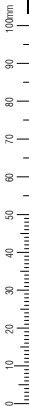


DESIGN CROSS SECTIONS - ACROSS SPEED TABLE

SCALES - H 1 : 50
V 1 : 50

LEGEND	
---	EXISTING GROUND PROFILE
—	PROPOSED GROUND PROFILE

DO NOT SCALE - IF IN DOUBT, ASK



ORIGINAL SIZE A1

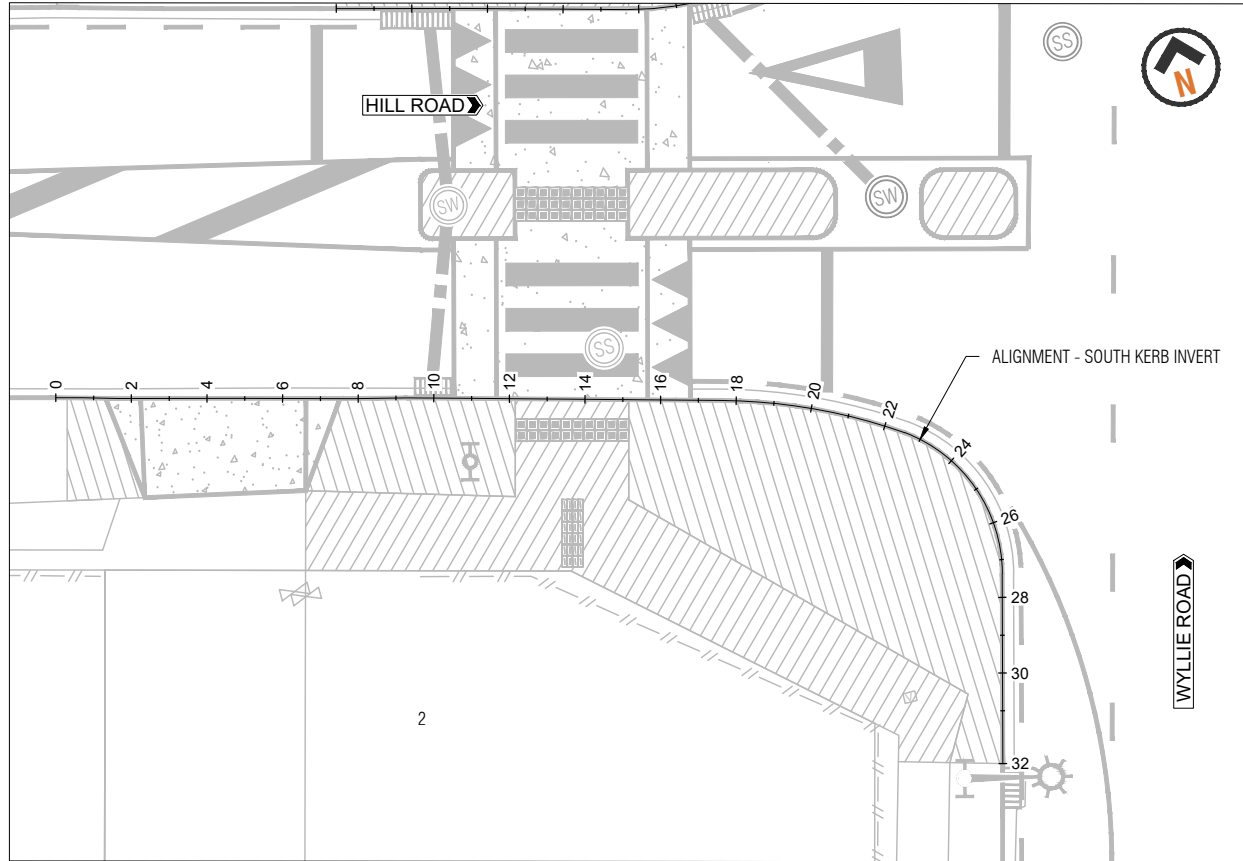
DESIGN	Raymond Tong
DESIGN CHECK	Sagar kariya
APPROVED	Sagar kariya
DATE	06/06/2023



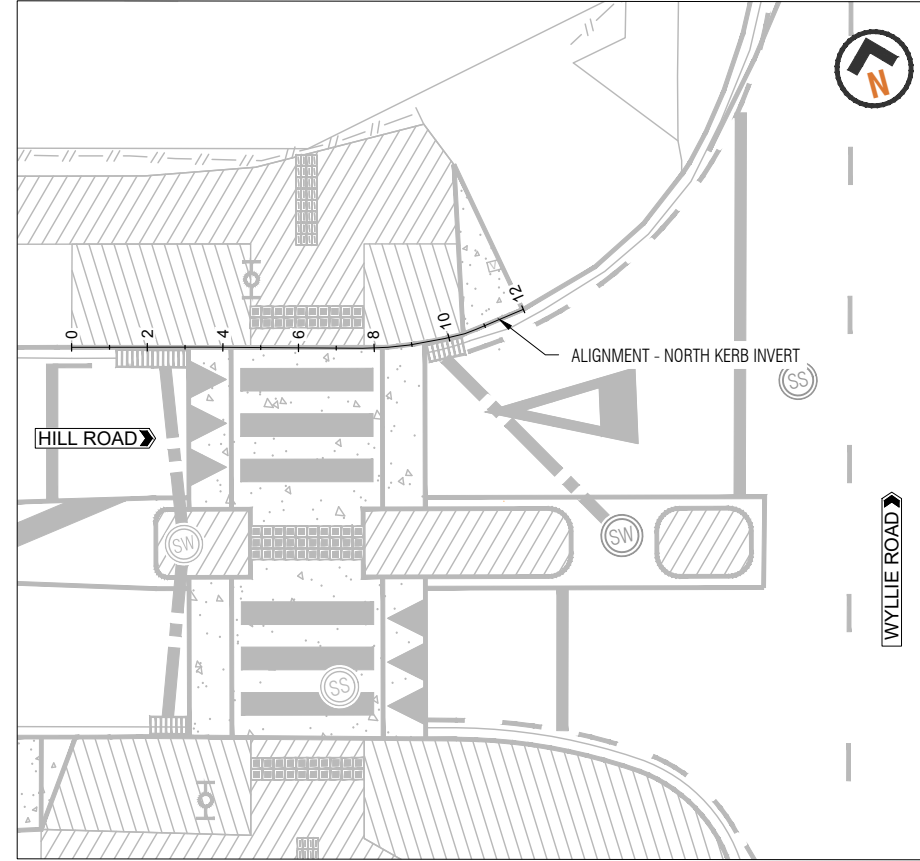
Project:	RAISED PEDESTRIAN CROSSING OUTSIDE 27 HILL ROAD
Drawing Title:	PLAN AND DESIGN CROSS SECTIONS - SPEED TABLE

Drawing Status:	
FOR CONSTRUCTION	
Drawing No.	Revision
2022-AT-010-02_G060	1

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PLAN
SCALE: 1:100 @ A1



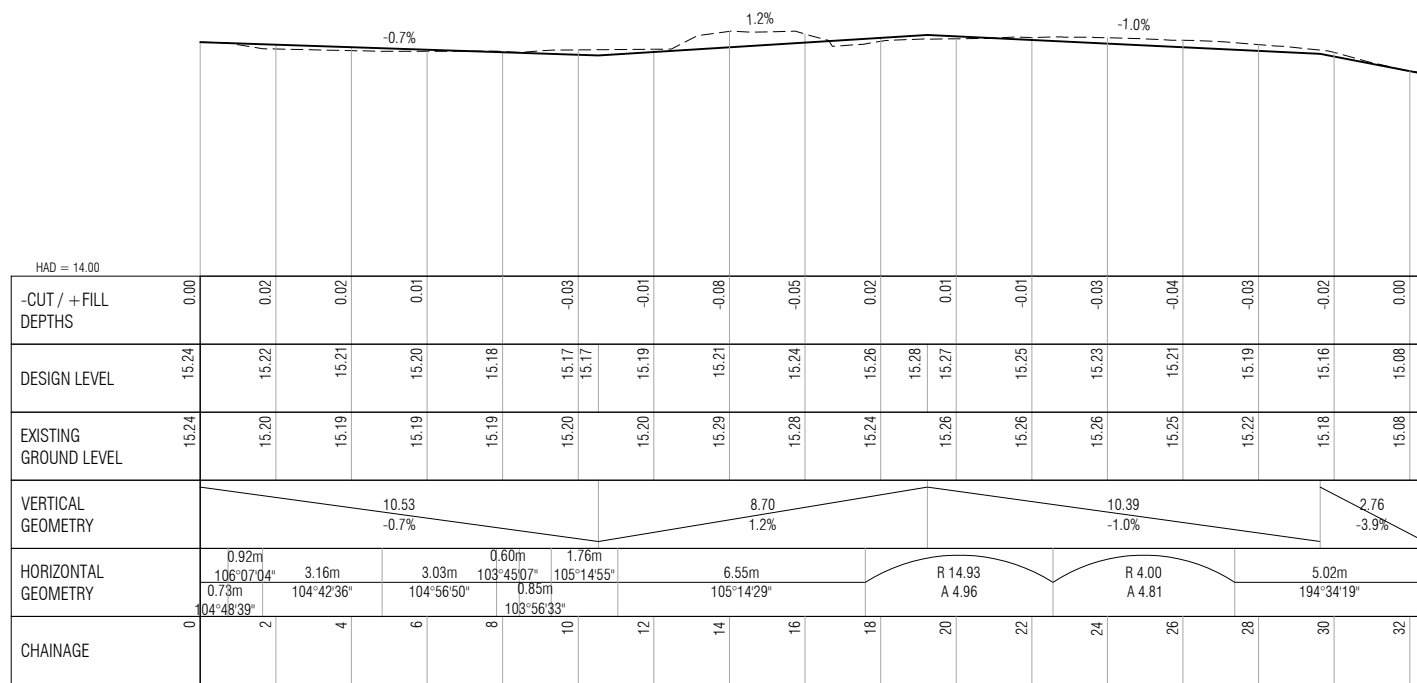
PLAN
SCALE: 1:100 @ A1

SETOUT COORDINATES - SOUTH KERB INVERT				
STATION	EASTING	NORTHING	ELEVATION DESIGN	POINT TYPE
0	1764563.647	5905557.487	15.238m	Start
2	1764565.575	5905556.956	15.224m	Regular
4	1764567.510	5905556.448	15.211m	Regular
6	1764569.443	5905555.936	15.198m	Regular
8	1764571.376	5905555.423	15.184m	Regular
10	1764573.314	5905554.927	15.171m	Regular
12	1764575.243	5905554.401	15.186m	Regular
14	1764577.173	5905553.875	15.210m	Regular
16	1764579.103	5905553.349	15.235m	Regular
18	1764581.031	5905552.818	15.260m	Regular
20	1764582.901	5905552.115	15.268m	Regular
22	1764584.661	5905551.168	15.249m	Regular
24	1764586.125	5905549.831	15.229m	Regular
26	1764586.781	5905547.964	15.210m	Regular
28	1764586.510	5905545.996	15.191m	Regular
30	1764586.006	5905544.060	15.161m	Regular
32	1764585.503	5905542.125	15.084m	End

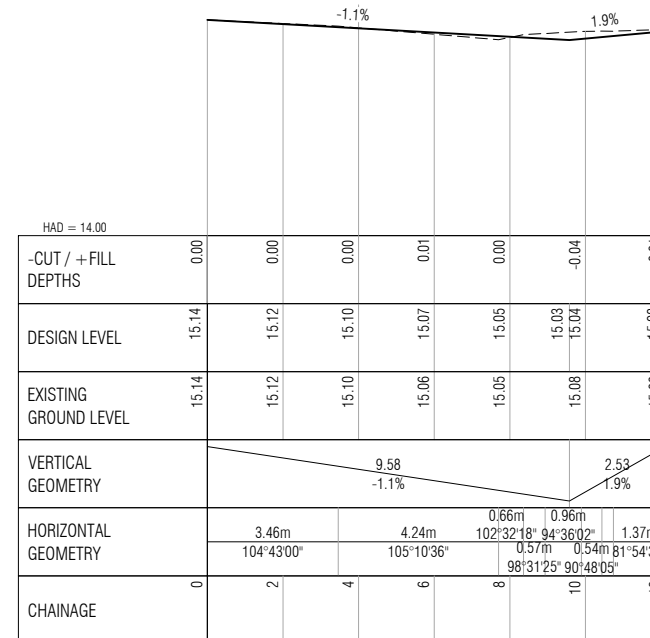
SETOUT COORDINATES - NORTH KERB INVERT				
STATION	EASTING	NORTHING	ELEVATION DESIGN	POINT TYPE
0	1764573.446	5905565.544	15.141m	Start
2	1764575.380	5905565.036	15.118m	Regular
4	1764577.313	5905564.524	15.096m	Regular
6	1764579.243	5905564.000	15.074m	Regular
8	1764581.177	5905563.490	15.051m	Regular
10	1764583.159	5905563.248	15.042m	Regular
12	1764585.145	5905563.453	15.079m	End

DO NOT SCALE - IF IN DOUBT, ASK

ORIGINAL SIZE A1



LONG SECTION - SOUTH KERB INVERT
SCALES - H 1:100
V 1:20



LONG SECTION - NORTH KERB INVERT
SCALES - H 1:100
V 1:20

LEGEND	
	EXISTING GROUND PROFILE
	DESIGN PROFILE

A1 1:100		A1 1:20	
A3 1:200		A3 1:40	

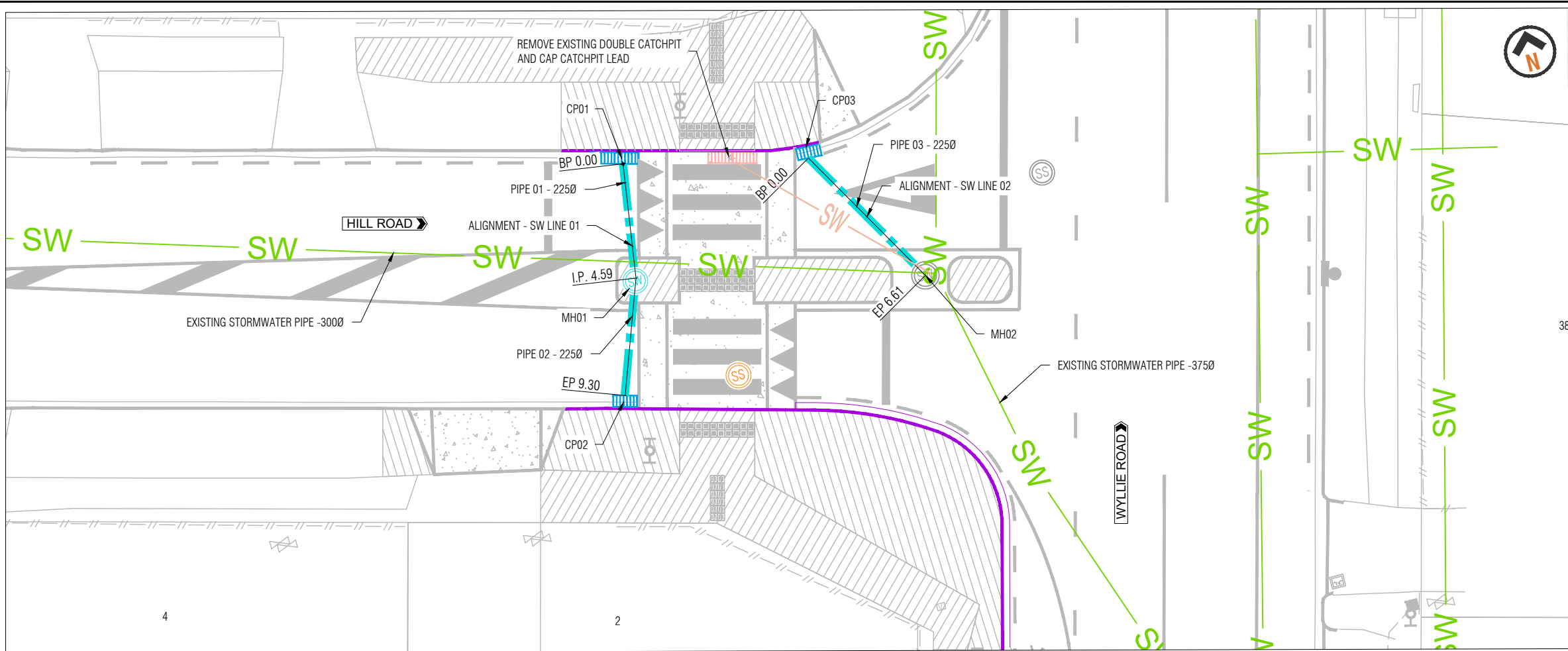
REV	FOR CONSTRUCTION	SK APPROVED
1	FOR CONSTRUCTION	SK APPROVED
	REVISIONS	

DESIGN	Raymond Tong
DESIGN CHECK	Sagar kariya
APPROVED	Sagar kariya
DATE	06/06/2023



Project:	RAISED PEDESTRIAN CROSSING OUTSIDE 27 HILL ROAD
Drawing Title:	PLAN AND LONG SECTION

Drawing Status:		FOR CONSTRUCTION
Drawing No.	2022-AT-010-02_G065	Revision
		1



PLAN
SCALE: 1:100 @ A1

NOTE

1. INVERT LEVELS OF NEW CATCHPIT AND MANHOLE ARE BASED ON AC GIS INFORMATION. CONTRACTOR TO VALIDATE THE INVERT LEVELS ON SITE AND UNDERTAKE UNDERGROUND INVESTIGATION TO IDENTIFY ANY CONFLICT WITH NEW STORMWATER RETICULATION PRIOR TO COMMENCEMENT OF PHYSICAL WORKS.

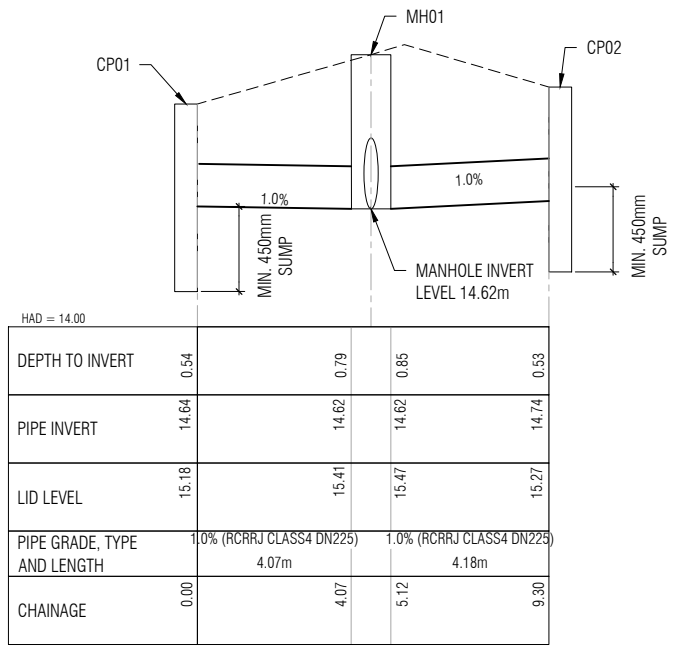
- NOTES**
1. ALL NEW STORMWATER PIPE 225 DIA. AND RCRRJ CLASS 4.
 2. NEW STREET CATCHPITS THAT ARE 800 x 500 AS PER AUCKLAND TRANSPORT TDM RD0022 TO HAVE 1.2m LINTEL.
 3. MANHOLE AND CATCHPIT LEAD DIAMETER STATED ARE DN STANDARD SIZE AND RELATE TO THE INTERNAL DIAMETER. CATCHPIT DEPTH = DTI + WET SUMP.
 4. CONTRACTOR TO LOCATE THE EXISTING UNGROUNDED SERVICES PRIOR TO COMMENCEMENT OF WORKS.
 5. PARCEL BOUNDARY INFORMATION SOURCED FROM AUCKLAND COUNCIL GEOMAP.
 6. TRENCHES WITHIN ROAD CORRIDOR ARE TO BE REINSTATED IN ACCORDANCE WITH AUCKLAND TRANSPORT CODE OF PRACTICES.
 7. SETOUT COORDINATES INDICATIVE ONLY. EXACT LOCATIONS OF NEW CATCHPIT AND MANHOLE TO BE VERIFIED ON SITE WITH AUCKLAND TRANSPORT SITE ENGINEER.

LEGEND - LONG SECTION

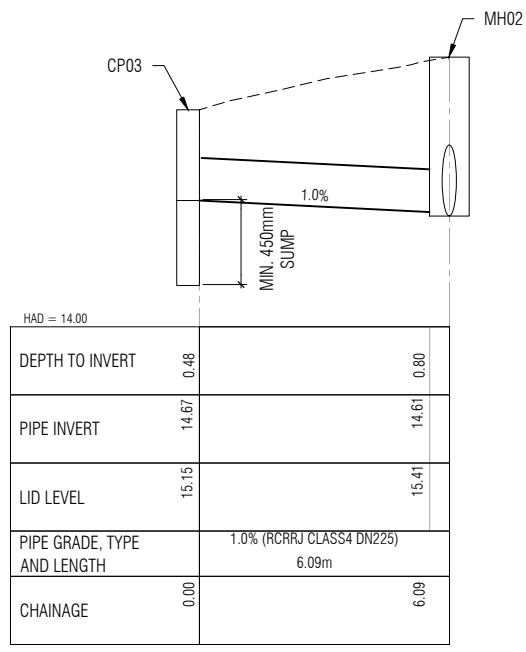
--- EXISTING GROUND PROFILE

LEGEND - PLAN

- NEW KERB AND CHANNEL
- EXISTING KERB AND CHANNEL
- EXISTING STORMWATER PIPE (source:GEOMAP)
- NEW STORMWATER PIPE
- NEW CATCHPIT AS PER TDM RD0022 & RD0023. REFER TO DRAWING 2022-AT-010-02_G1003 FOR DETAILS
- EXISTING CATCHPIT TO REMAIN
- CATCHPIT TO BE REMOVED
- NEW STORMWATER MANHOLE. REFER TO DRAWING 2022-AT-010-02_G1004 FOR DETAILS
- RAISE SERVICE COVER TO DESIGN LEVEL



LONG SECTION - SW LINE 01
SCALES - H 1:100
V 1:20



LONG SECTION - SW LINE 02
SCALES - H 1:100
V 1:20

CATCHPIT AND MANHOLE SCHEDULE (SEE NOTE 3)

ID	SPECIFICATION & SIZE	LID LEVEL (m)	INVERT LEVEL (m)	DEPTH TO INVERT (m)
CP01	2 x STREET CATCHPIT 800x500 AS PER TDM RD0022, LINTEL 1.2m	15.18	14.64	0.54
CP02	STREET CATCHPIT 800x500 AS PER TDM RD0022, LINTEL 1.2m	15.27	14.74	0.53
CP03	STREET CATCHPIT 800x500 AS PER TDM RD0022, LINTEL 1.2m	15.15	14.67	0.48
MH01	STANDARD STORMWATER MANHOLE AS PER SWCoP SW05 REV 3	15.44	14.62	0.82

DO NOT SCALE - IF IN DOUBT, ASK



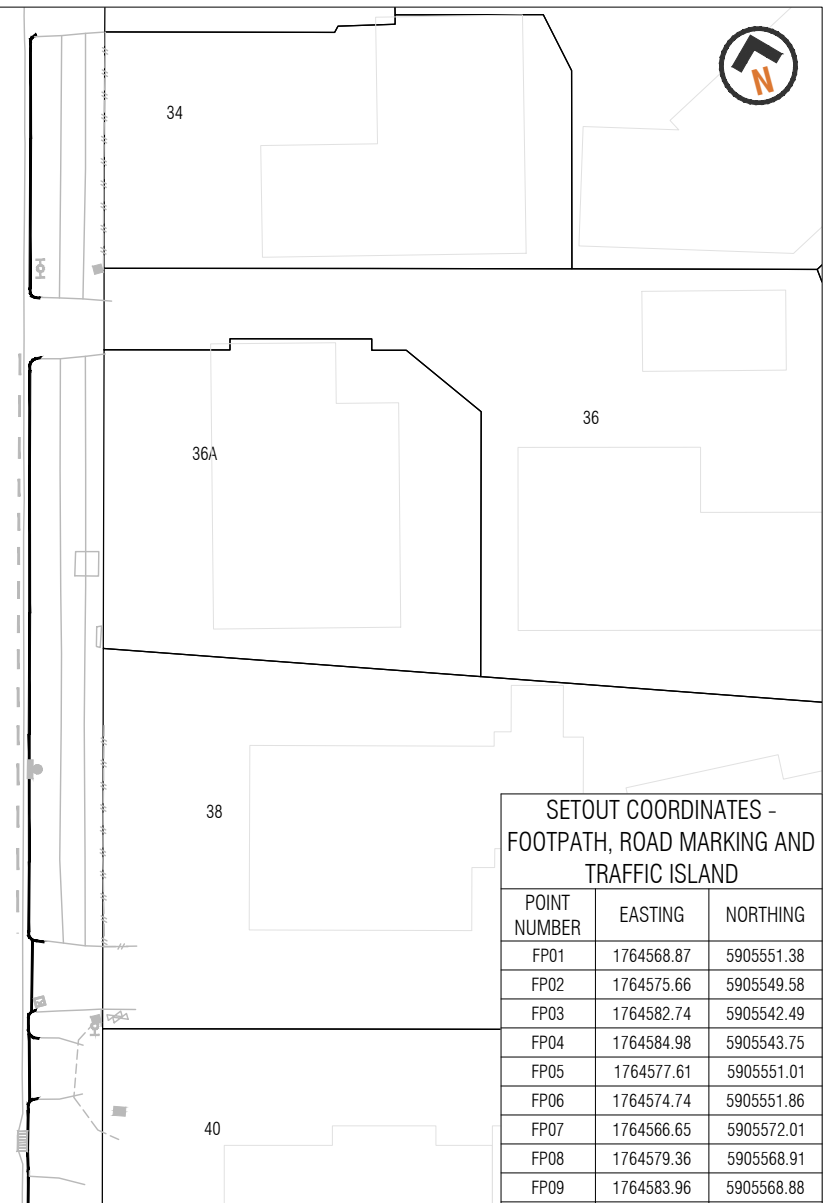
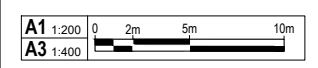
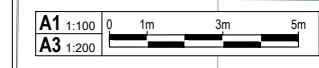
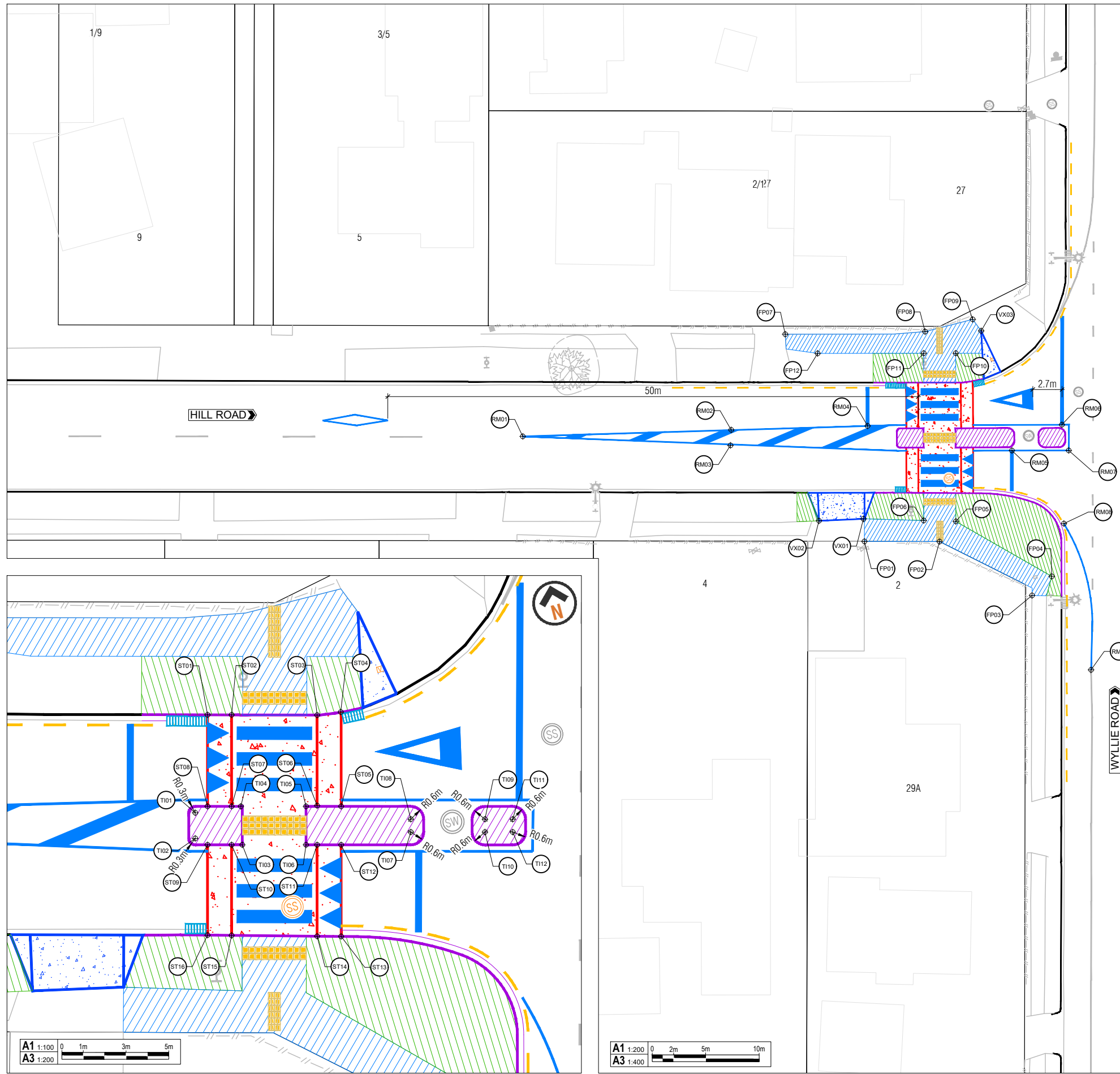
REV	FOR CONSTRUCTION	SK APPROVED
1	FOR CONSTRUCTION	SK APPROVED

DESIGN	Raymond Tong
DESIGN CHECK	Sagar kariya
APPROVED	Sagar kariya
DATE	06/06/2023



Project: RAISED PEDESTRIAN CROSSING OUTSIDE 27 HILL ROAD
Drawing Title: STORMWATER PLAN AND LONG SECTION

Drawing Status: **FOR CONSTRUCTION**
Drawing No: 2022-AT-010-02_G070
Revision: 1



SETOUT COORDINATES - FOOTPATH, ROAD MARKING AND TRAFFIC ISLAND

POINT NUMBER	EASTING	NORTHING
FP01	1764568.87	5905551.38
FP02	1764575.66	5905549.58
FP03	1764582.74	5905542.49
FP04	1764584.98	5905543.75
FP05	1764577.61	5905551.01
FP06	1764574.74	5905551.86
FP07	1764566.65	5905572.01
FP08	1764579.36	5905568.91
FP09	1764583.96	5905568.88
FP10	1764581.62	5905566.22
FP11	1764578.72	5905566.98
FP12	1764569.12	5905569.50
RM01	1764540.47	5905569.03
RM02	1764559.48	5905564.64
RM03	1764559.04	5905563.26
RM04	1764571.91	5905561.75
RM05	1764584.38	5905556.08
RM06	1764589.52	5905557.22
RM07	1764589.52	5905554.74
RM08	1764587.34	5905548.24
RM09	1764586.31	5905534.36
TI01	1764574.72	5905560.47
TI02	1764574.42	5905559.31
TI03	1764576.47	5905558.46
TI04	1764576.86	5905560.22
TI05	1764579.81	5905559.45
TI06	1764579.35	5905557.70
TI07	1764584.25	5905557.04
TI08	1764584.40	5905557.62
TI09	1764587.75	5905556.75
TI10	1764587.60	5905556.17
TI11	1764589.01	5905556.42
TI12	1764588.86	5905555.84

SETOUT COORDINATES - SPEED TABLE AND VEHICLE CROSSING

POINT NUMBER	EASTING	NORTHING	ELEVATION (m)	REMARK
ST01	1764576.44	5905564.75	15.150	RAMP BOTTOM
ST02	1764577.52	5905564.47	15.180	RAMP TOP
ST03	1764581.39	5905563.44	15.140	RAMP TOP
ST04	1764582.49	5905563.30	15.080	RAMP BOTTOM
ST05	1764581.40	5905559.03	15.380	RAMP BOTTOM
ST06	1764580.32	5905559.35	15.440	RAMP TOP
ST07	1764576.44	5905560.33	15.440	RAMP TOP
ST08	1764575.35	5905560.61	15.390	RAMP BOTTOM
ST09	1764574.90	5905558.87	15.480	RAMP BOTTOM
ST10	1764576.23	5905558.52	15.520	RAMP TOP
ST11	1764579.85	5905557.57	15.500	RAMP TOP
ST12	1764580.94	5905557.29	15.440	RAMP BOTTOM
ST13	1764579.86	5905553.14	15.280	RAMP BOTTOM
ST14	1764578.77	5905553.44	15.310	RAMP TOP
ST15	1764574.91	5905554.49	15.310	RAMP TOP
ST16	1764573.83	5905554.79	15.250	RAMP BOTTOM
VX01	1764569.32	5905553.44	-	-
VX02	1764565.25	5905554.33	-	-
VX03	1764584.46	5905567.64	-	-

DESIGN	Raymond Tong
DESIGN CHECK	Sagar kariya
APPROVED	Sagar kariya
DATE	06/06/2023

SK APPROVED	
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Project: RAISED PEDESTRIAN CROSSING OUTSIDE 27 HILL ROAD
 Drawing Title: SETOUT COORDINATES PLAN

FOR CONSTRUCTION
 Drawing No: 2022-AT-010-02_G110
 Revision: 1