

Project No. 241008.00

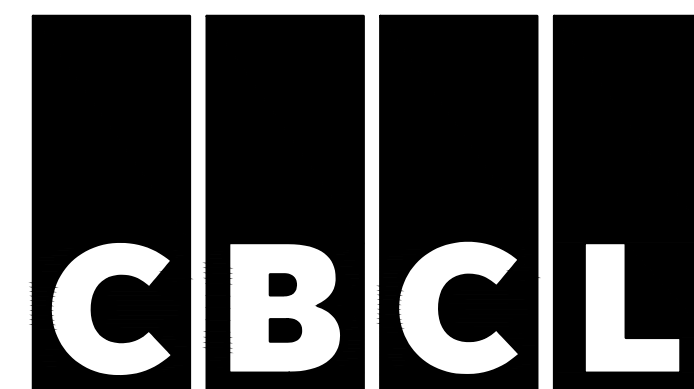
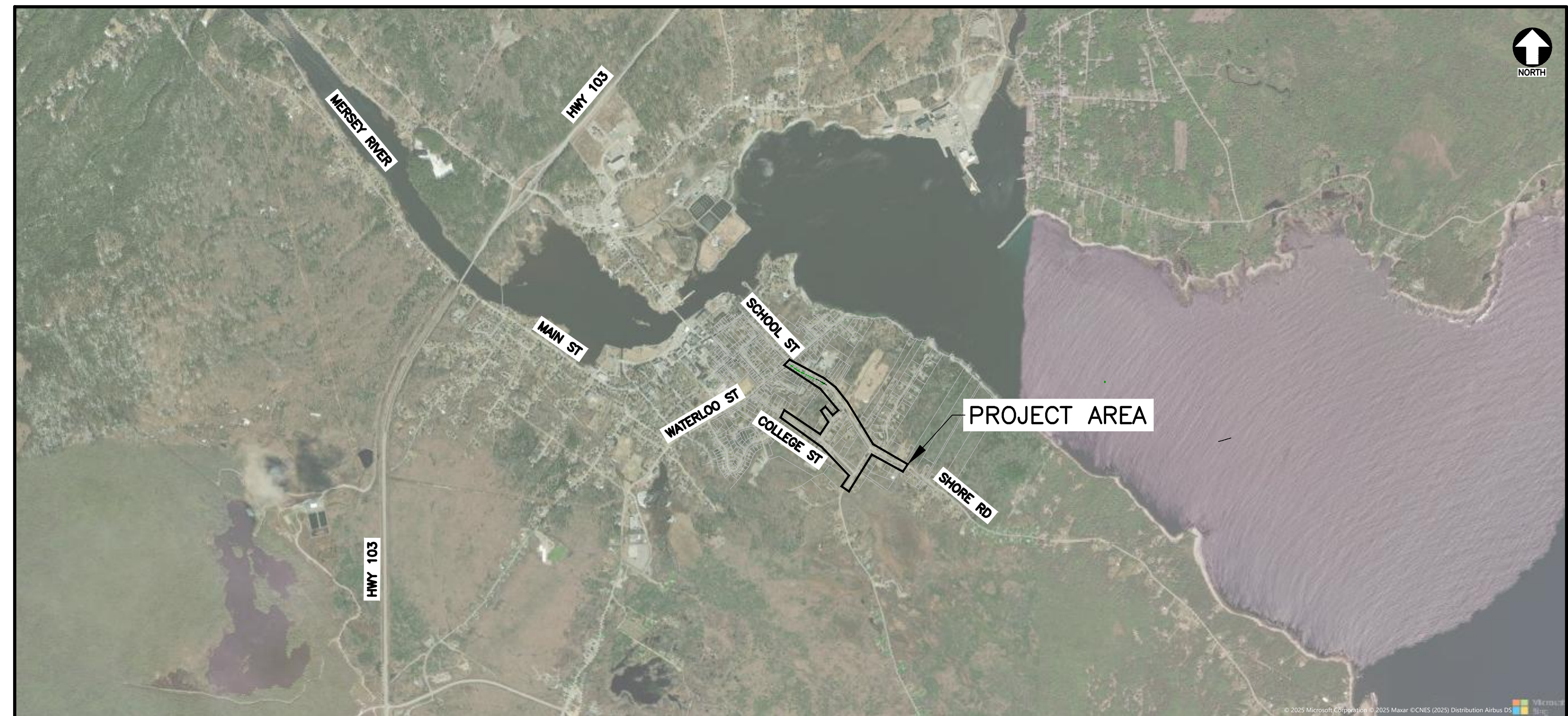
REGION OF QUEENS MUNICIPALITY



MOUNT PLEASANT WATER AND SANITARY SERVICING EXTENSION INF18-2025-2026

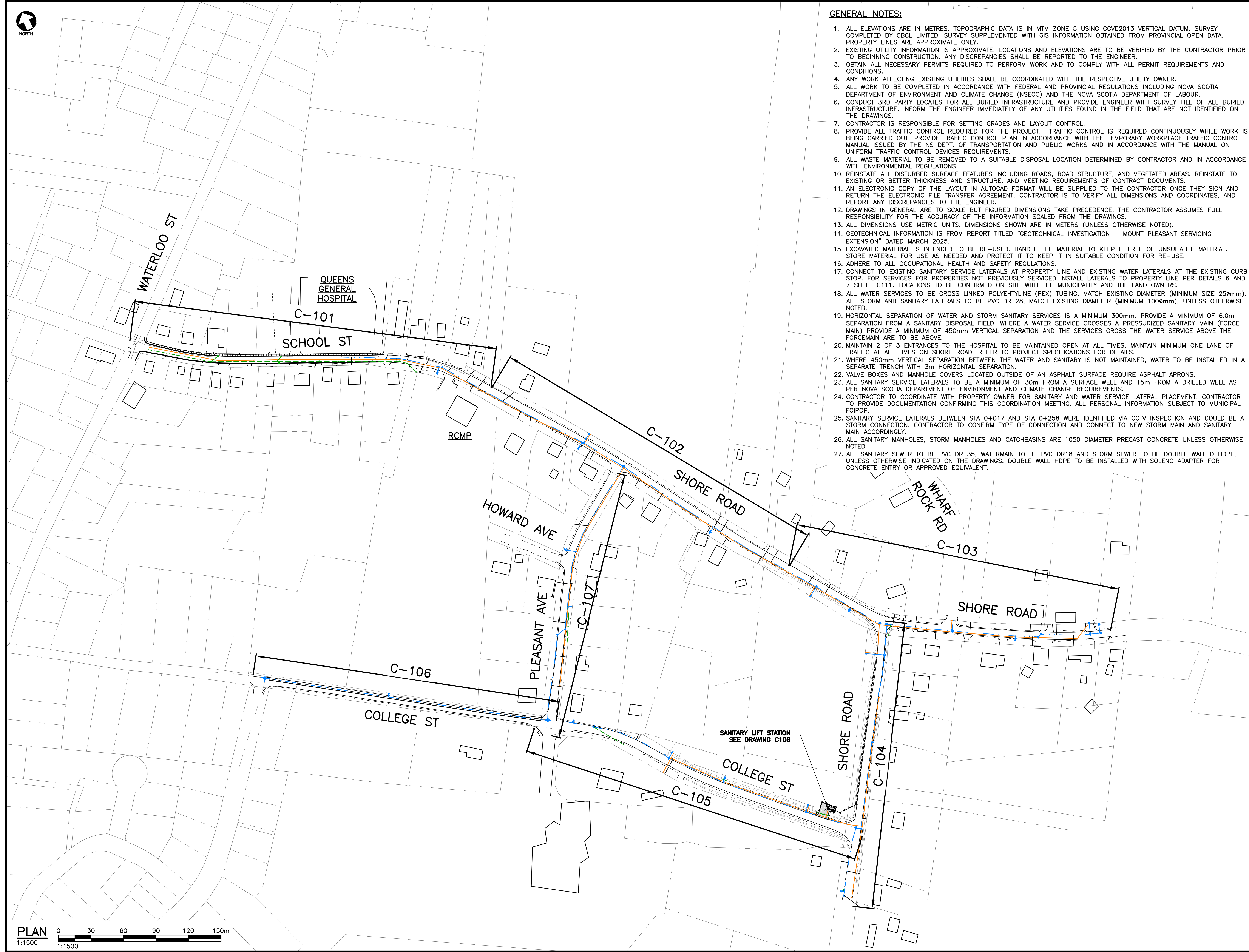
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ISSUED FOR
TENDER

JULY 03, 2025



GENERAL NOTES:

1. ALL ELEVATIONS ARE IN METRES. TOPOGRAPHIC DATA IS IN MTM ZONE 5 USING CGVD2013 VERTICAL DATUM. SURVEY COMPLETED BY CBCL LIMITED. SURVEY SUPPLEMENTED WITH GIS INFORMATION OBTAINED FROM PROVINCIAL OPEN DATA. PROPERTY LINES ARE APPROXIMATE ONLY.
2. EXISTING UTILITY INFORMATION IS APPROXIMATE. LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
3. OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM WORK AND TO COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
4. ANY WORK AFFECTING EXISTING UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNER.
5. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH FEDERAL AND PROVINCIAL REGULATIONS INCLUDING NOVA SCOTIA DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE (NSECC) AND THE NOVA SCOTIA DEPARTMENT OF LABOUR.
6. CONDUCT 3RD PARTY LOCATES FOR ALL BURIED INFRASTRUCTURE AND PROVIDE ENGINEER WITH SURVEY FILE OF ALL BURIED INFRASTRUCTURE. INFORM THE ENGINEER IMMEDIATELY OF ANY UTILITIES FOUND IN THE FIELD THAT ARE NOT IDENTIFIED ON THE DRAWINGS.
7. CONTRACTOR IS RESPONSIBLE FOR SETTING GRADES AND LAYOUT CONTROL.
8. PROVIDE ALL TRAFFIC CONTROL REQUIRED FOR THE PROJECT. TRAFFIC CONTROL IS REQUIRED CONTINUOUSLY WHILE WORK IS BEING CARRIED OUT. PROVIDE TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE TEMPORARY WORKPLACE TRAFFIC CONTROL MANUAL ISSUED BY THE NS DEPT. OF TRANSPORTATION AND PUBLIC WORKS AND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES REQUIREMENTS.
9. ALL WASTE MATERIAL TO BE REMOVED TO A SUITABLE DISPOSAL LOCATION DETERMINED BY CONTRACTOR AND IN ACCORDANCE WITH ENVIRONMENTAL REGULATIONS.
10. REINSTATE ALL DISTURBED SURFACE FEATURES INCLUDING ROADS, ROAD STRUCTURE, AND VEGETATED AREAS. REINSTATE TO EXISTING OR BETTER THICKNESS AND STRUCTURE, AND MEETING REQUIREMENTS OF CONTRACT DOCUMENTS.
11. AN ELECTRONIC COPY OF THE LAYOUT IN AUTOCAD FORMAT WILL BE SUPPLIED TO THE CONTRACTOR ONCE THEY SIGN AND RETURN THE ELECTRONIC FILE TRANSFER AGREEMENT. CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND COORDINATES, AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
12. DRAWINGS IN GENERAL ARE TO SCALE BUT FIGURED DIMENSIONS TAKE PRECEDENCE. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SCALED FROM THE DRAWINGS.
13. ALL DIMENSIONS USE METRIC UNITS. DIMENSIONS SHOWN ARE IN METERS (UNLESS OTHERWISE NOTED).
14. GEOTECHNICAL INFORMATION IS FROM REPORT TITLED "GEOTECHNICAL INVESTIGATION - MOUNT PLEASANT SERVICING EXTENSION" DATED MARCH 2025.
15. EXCAVATED MATERIAL IS INTENDED TO BE RE-USED. HANDLE THE MATERIAL TO KEEP IT FREE OF UNSUITABLE MATERIAL. STORE MATERIAL FOR USE AS NEEDED AND PROTECT IT TO KEEP IT IN SUITABLE CONDITION FOR RE-USE.
16. ADHERE TO ALL OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.
17. CONNECT TO EXISTING SANITARY SERVICE LATERALS AT PROPERTY LINE AND EXISTING WATER LATERALS AT THE EXISTING CURB STOP. FOR SERVICES FOR PROPERTIES NOT PREVIOUSLY SERVICED INSTALL LATERALS TO PROPERTY LINE PER DETAILS 6 AND 7 SHEET C111. LOCATIONS TO BE CONFIRMED ON SITE WITH THE MUNICIPALITY AND THE LAND OWNERS.
18. ALL WATER SERVICES TO BE CROSS LINKED POLYETHYLENE (PEX) TUBING, MATCH EXISTING DIAMETER (MINIMUM SIZE 25mm). ALL STORM AND SANITARY LATERALS TO BE PVC DR 28, MATCH EXISTING DIAMETER (MINIMUM 100mm), UNLESS OTHERWISE NOTED.
19. HORIZONTAL SEPARATION OF WATER AND STORM SANITARY SERVICES IS A MINIMUM 300mm. PROVIDE A MINIMUM OF 6.0m SEPARATION FROM A SANITARY DISPOSAL FIELD. WHERE A WATER SERVICE CROSSES A PRESSURIZED SANITARY MAIN (FORCE MAIN) PROVIDE A MINIMUM OF 450mm VERTICAL SEPARATION AND THE SERVICES CROSS THE WATER SERVICE ABOVE THE FORCEMAIN ARE TO BE ABOVE.
20. MAINTAIN 2 OF 3 ENTRANCES TO THE HOSPITAL TO BE MAINTAINED OPEN AT ALL TIMES. MAINTAIN MINIMUM ONE LANE OF TRAFFIC AT ALL TIMES ON SHORE ROAD. REFER TO PROJECT SPECIFICATIONS FOR DETAILS.
21. WHERE 450mm VERTICAL SEPARATION BETWEEN THE WATER AND SANITARY IS NOT MAINTAINED, WATER TO BE INSTALLED IN A SEPARATE TRENCH WITH 3m HORIZONTAL SEPARATION.
22. VALVE BOXES AND MANHOLE COVERS LOCATED OUTSIDE OF AN ASPHALT SURFACE REQUIRE ASPHALT APRONS.
23. ALL SANITARY SERVICE LATERALS TO BE A MINIMUM OF 30m FROM A SURFACE WELL AND 15m FROM A DRILLED WELL AS PER NOVA SCOTIA DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE REQUIREMENTS.
24. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER FOR SANITARY AND WATER SERVICE LATERAL PLACEMENT. CONTRACTOR TO PROVIDE DOCUMENTATION CONFIRMING THIS COORDINATION MEETING. ALL PERSONAL INFORMATION SUBJECT TO MUNICIPAL FOIPOP.
25. SANITARY SERVICE LATERALS BETWEEN STA 0+017 AND STA 0+258 WERE IDENTIFIED VIA CCTV INSPECTION AND COULD BE A STORM CONNECTION. CONTRACTOR TO CONFIRM TYPE OF CONNECTION AND CONNECT TO NEW STORM MAIN AND SANITARY MAIN ACCORDINGLY.
26. ALL SANITARY MANHOLES, STORM MANHOLES AND CATCHBASINS ARE 1050 DIAMETER PRECAST CONCRETE UNLESS OTHERWISE NOTED.
27. ALL SANITARY SEWER TO BE PVC DR 35, WATERMAIN TO BE PVC DR18 AND STORM SEWER TO BE DOUBLE WALLED HDPE, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. DOUBLE WALL HDPE TO BE INSTALLED WITH SOLENO ADAPTER FOR CONCRETE ENTRY OR APPROVED EQUIVALENT.

LEGEND

- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- SANITARY PUMP STATION (EX.)
- SANITARY PUMP STATION (PR.)
- STORM CATCHBASIN (SQ.) (EX.)
- STORM CATCHBASIN (SQ.) (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM MH (EX.)
- STORM MH (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- U/G POWER (EX.)
- U/G POWER (PR.)
- O/H POWER (EX.)
- O/H POWER (PR.)
- UTILITY POLE (EX.)
- UTILITY POLE (PR.)
- TOP OF SLOPE (EX.)
- TOP OF SLOPE (PR.)
- BOTTOM OF SLOPE (EX.)
- BOTTOM OF SLOPE (PR.)
- ROAD SHOULDER (EX.)
- PROPERTY LINE (EX.)
- MINOR CONTOUR (EX.)
- 20.0 MAJOR CONTOUR (EX.)

No.	Description	Date	By
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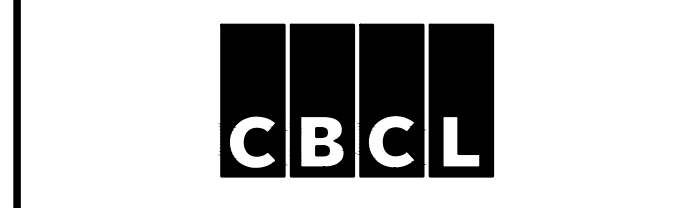
Revision or Issue



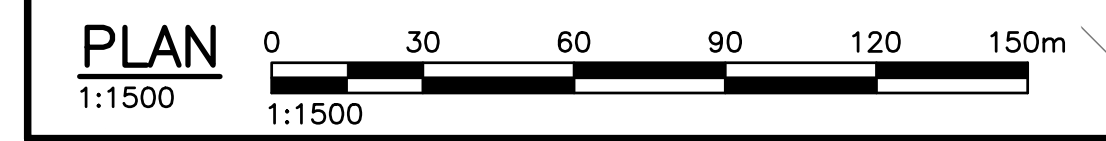
MUNICIPALITY OF QUEENS
MOUNT PLEASANT SERVICING
EXTENSION

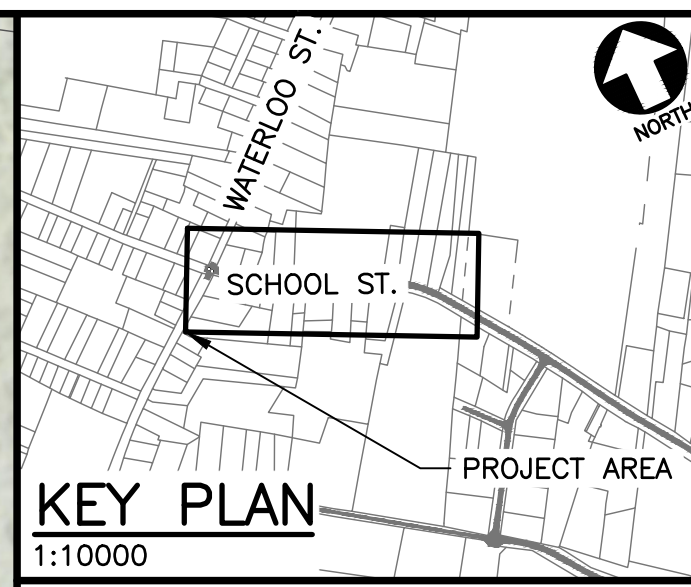
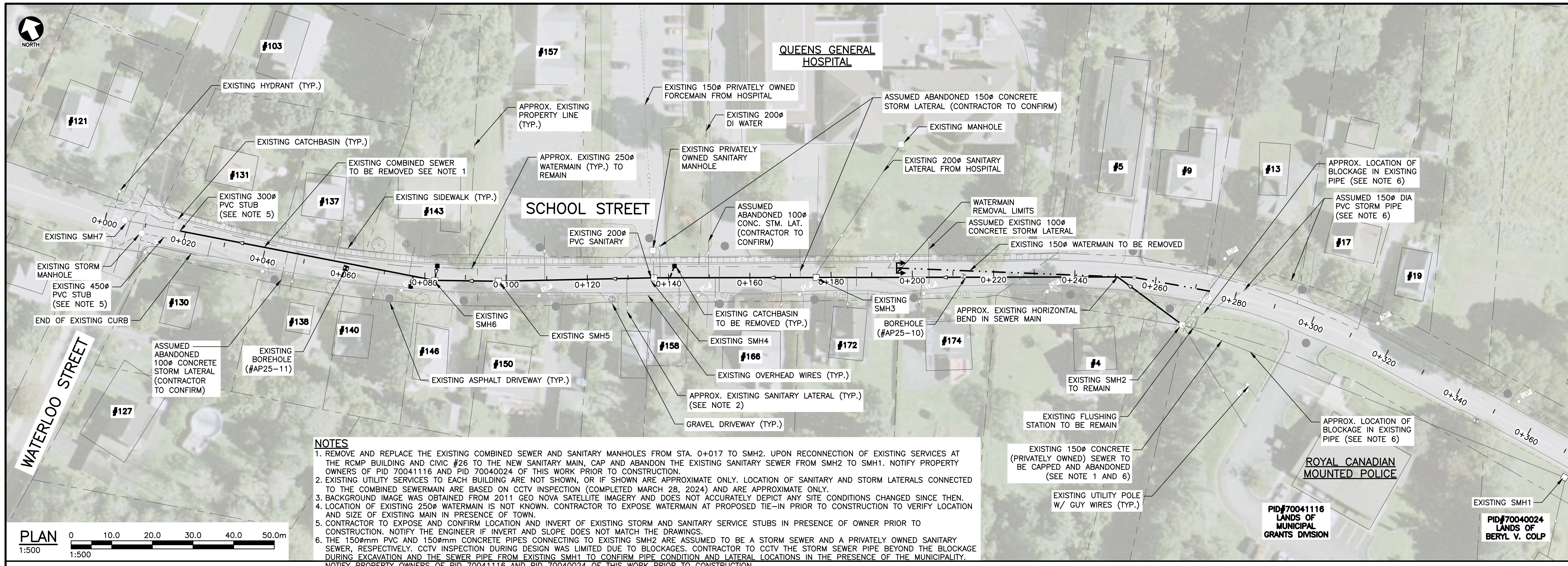
CIVIL

OVERALL SITE PLAN



CBCL No. 241008.00	Contract No. -
Date FEB 2025	Scale AS NOTED
Designed RWM	Drawn DS/RWM
Checked JC	Approved RWM
Sheet No. 1	of 15
Drawing No. C000	

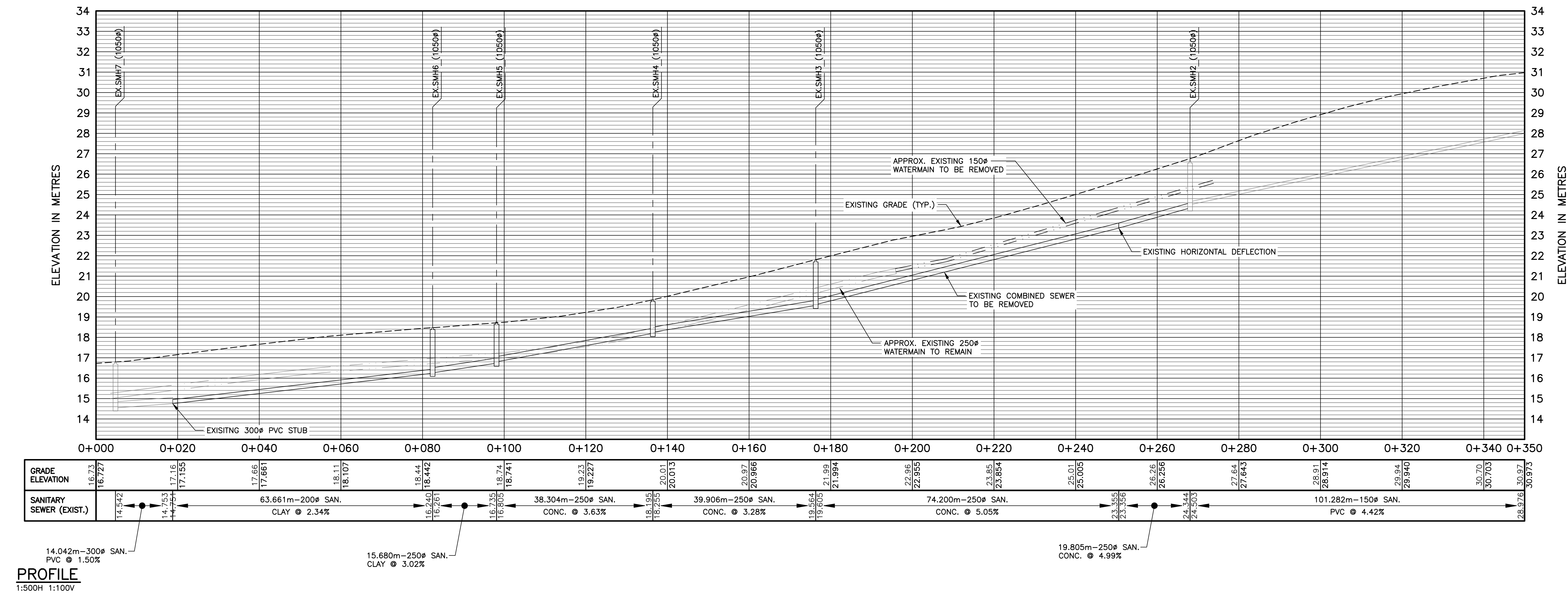
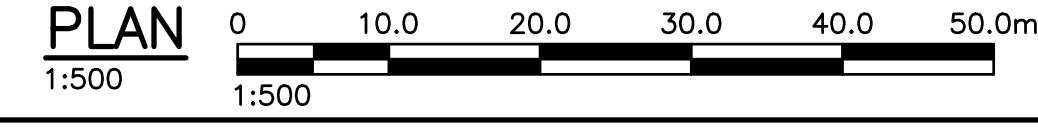




- LEGEND**
- SANITARY SEWER (EX.)
 - SANITARY SEWER (PR.)
 - SANITARY SEWER (REMOVAL)
 - SANITARY MH (EX.)
 - SANITARY MH (PR.)
 - SANITARY FORCEMAIN (EX.)
 - SANITARY FORCEMAIN (PR.)
 - SANITARY PUMP STATION (EX.)
 - SANITARY PUMP STATION (EX.)
 - STORM CATCHBASIN (SQ.) (EX.)
 - STORM CATCHBASIN (SQ.) (PR.)
 - STORM SEWER (EX.)
 - STORM SEWER (PR.)
 - STORM MH (EX.)
 - STORM MH (PR.)
 - WATERMAIN (EX.)
 - WATERMAIN (PR.)
 - WATERMAIN (REMOVAL)
 - GATE VALVE (EX.)
 - GATE VALVE (PR.)
 - WATERMAIN FITTINGS (PR.)
 - WATERMAIN BENDS (PR.)
 - FIRE HYDRANT (EX.)
 - FIRE HYDRANT (PR.)
 - U/G POWER (EX.)
 - U/G POWER (PR.)
 - O/H POWER (EX.)
 - O/H POWER (PR.)
 - UTILITY POLE (EX.)
 - UTILITY POLE (PR.)
 - TOP OF SLOPE (EX.)
 - TOP OF SLOPE (PR.)
 - BOTTOM OF SLOPE (EX.)
 - BOTTOM OF SLOPE (PR.)
 - PROPERTY LINE (EX.)
 - MAJOR CONTOUR (EX.)
 - MINOR CONTOUR (EX.)
 - PROPERTY LINE (EX.)
 - ASPHALT DRIVEWAY (EX.)
 - GRAVEL DRIVEWAY (EX.)
 - BORE HOLE (EX.)
 - DRILLED WELL (EX.)
 - DUG WELL (EX.)

NOTES

- REMOVE AND REPLACE THE EXISTING COMBINED SEWER AND SANITARY MANHOLES FROM STA. 0+017 TO SMH2. UPON RECONNECTION OF EXISTING SERVICES AT THE RCMP BUILDING AND CIVIC #26 TO THE NEW SANITARY MAIN, CAP AND ABANDON THE EXISTING SANITARY SEWER FROM SMH2 TO SMH1. NOTIFY PROPERTY OWNERS OF PID 70041116 AND PID 70040024 OF THIS WORK PRIOR TO CONSTRUCTION.
- EXISTING UTILITY SERVICES TO EACH BUILDING ARE NOT SHOWN, OR IF SHOWN ARE APPROXIMATE ONLY. LOCATION OF SANITARY AND STORM LATERALS CONNECTED TO THE COMBINED SEWERMAIN ARE BASED ON CCTV INSPECTION (COMPLETED MARCH 28, 2024) AND ARE APPROXIMATE ONLY.
- BACKGROUND IMAGE WAS OBTAINED FROM 2011 GEO NOVA SATELLITE IMAGERY AND DOES NOT ACCURATELY DEPICT ANY SITE CONDITIONS CHANGED SINCE THEN.
- LOCATION OF EXISTING 250# WATERMAIN IS NOT KNOWN. CONTRACTOR TO EXPOSE WATERMAIN AT PROPOSED TIE-IN PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND SIZE OF EXISTING MAIN IN PRESENCE OF TOWN.
- CONTRACTOR TO EXPOSE AND CONFIRM LOCATION AND INVERT OF EXISTING STORM AND SANITARY SERVICE STUBS IN PRESENCE OF OWNER PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER IF INVERT AND SLOPE DOES NOT MATCH THE DRAWINGS.
- THE 150#mm PVC AND 150#mm CONCRETE PIPES CONNECTING TO EXISTING SMH4 ARE ASSUMED TO BE A STORM SEWER AND A PRIVATELY OWNED SANITARY SEWER, RESPECTIVELY. CCTV INSPECTION DURING DESIGN WAS LIMITED DUE TO BLOCKAGES. CONTRACTOR TO CCTV THE STORM SEWER PIPE BEYOND THE BLOCKAGE DURING EXCAVATION AND THE SEWER PIPE FROM EXISTING SMH1 TO CONFIRM PIPE CONDITION AND LATERAL LOCATIONS IN THE PRESENCE OF THE MUNICIPALITY. NOTIFY PROPERTY OWNERS OF PID 70041116 AND PID 70040024 OF THIS WORK PRIOR TO CONSTRUCTION.



No.	Description	Date	By
0	ISSUED FOR TENDER	JUL 03/25	RWM

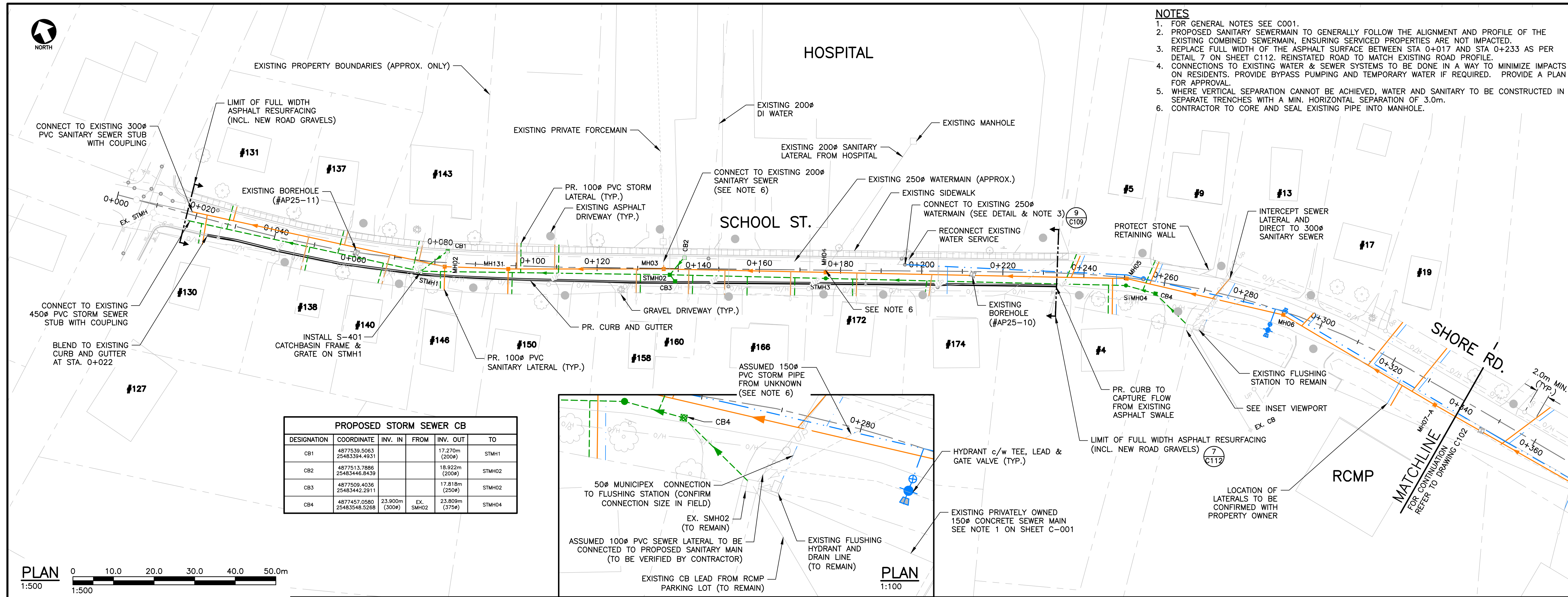
Revision or Issue

MUNICIPALITY OF QUEENS
MOUNT PLEASANT SERVICING EXTENSION

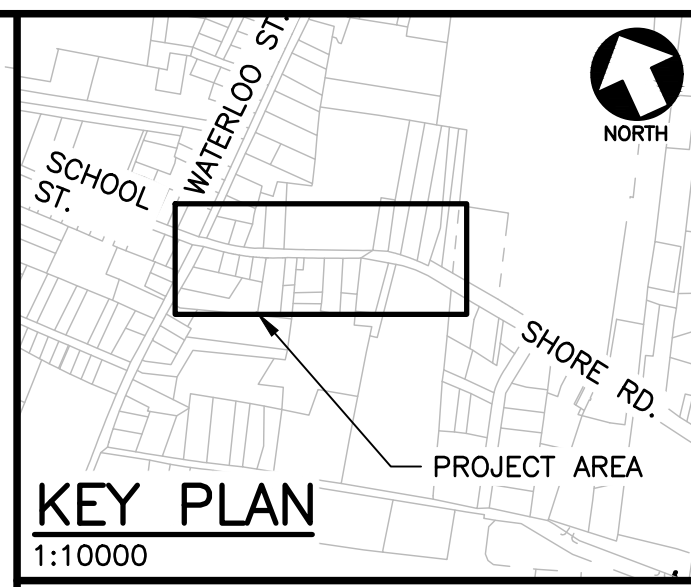
CIVIL

SCHOOL STREET EXISTING CONDITIONS AND REMOVALS

Contract No. 241008.00
Date: FEB 2025
Scale: AS NOTED
Designed: RWM
Drawn: DS/RWM
Checked: JC
Approved: RWM
Sheet No. 2 of 15
Drawing No. C001



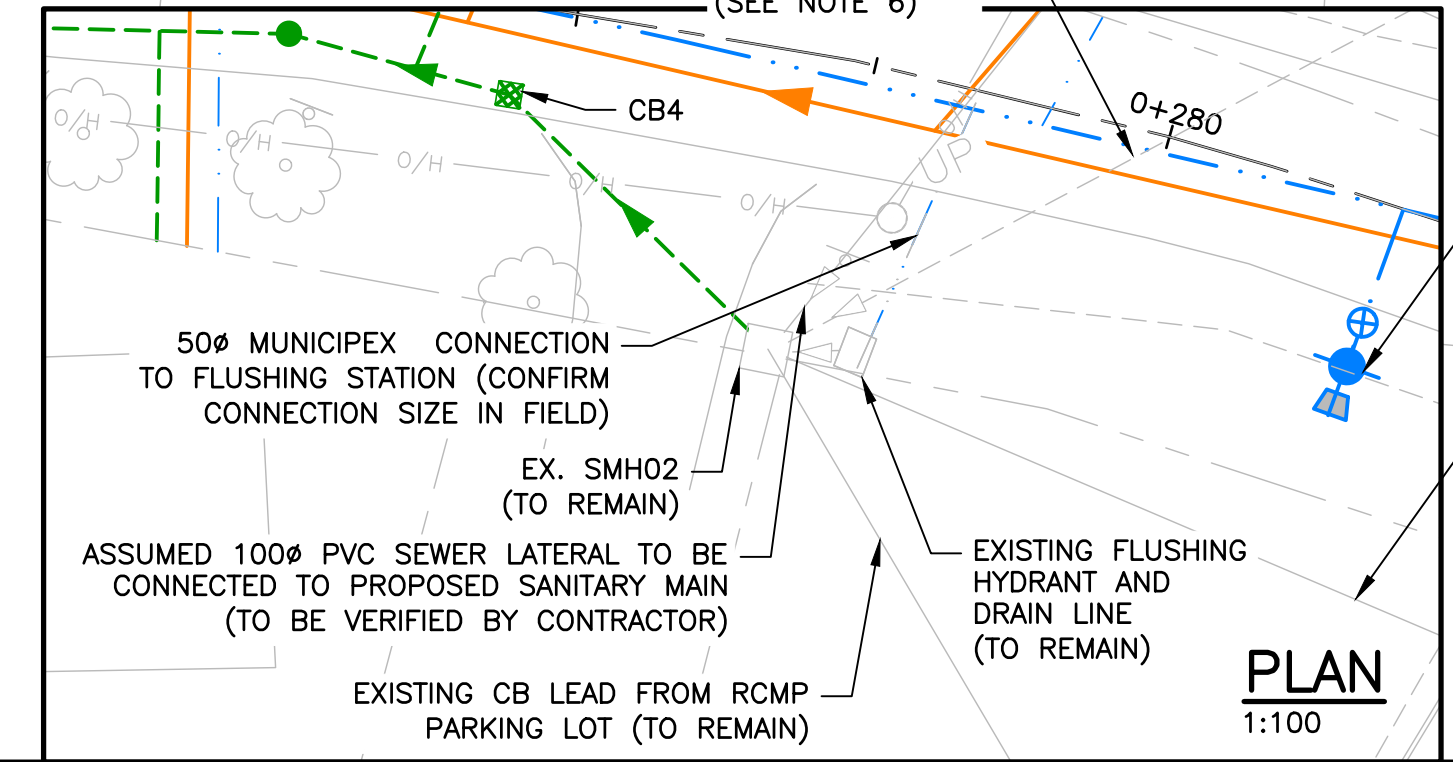
- NOTES**
- FOR GENERAL NOTES SEE C001.
 - PROPOSED SANITARY SEWERMAIN TO GENERALLY FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING COMBINED SEWERMAIN, ENSURING SERVICED PROPERTIES ARE NOT IMPACTED.
 - REPLACE FULL WIDTH OF THE ASPHALT SURFACE BETWEEN STA 0+017 AND STA 0+233 AS PER DETAIL 7 ON SHEET C112. REINSTATED ROAD TO MATCH EXISTING ROAD PROFILE.
 - CONNECTIONS TO EXISTING WATER & SEWER SYSTEMS TO BE DONE IN A WAY TO MINIMIZE IMPACTS ON RESIDENTS. PROVIDE BYPASS PUMPING AND TEMPORARY WATER IF REQUIRED. PROVIDE A PLAN FOR APPROVAL.
 - WHERE VERTICAL SEPARATION CANNOT BE ACHIEVED, WATER AND SANITARY TO BE CONSTRUCTED IN SEPARATE TRENCHES WITH A MIN. HORIZONTAL SEPARATION OF 3.0m.
 - CONTRACTOR TO CORE AND SEAL EXISTING PIPE INTO MANHOLE.



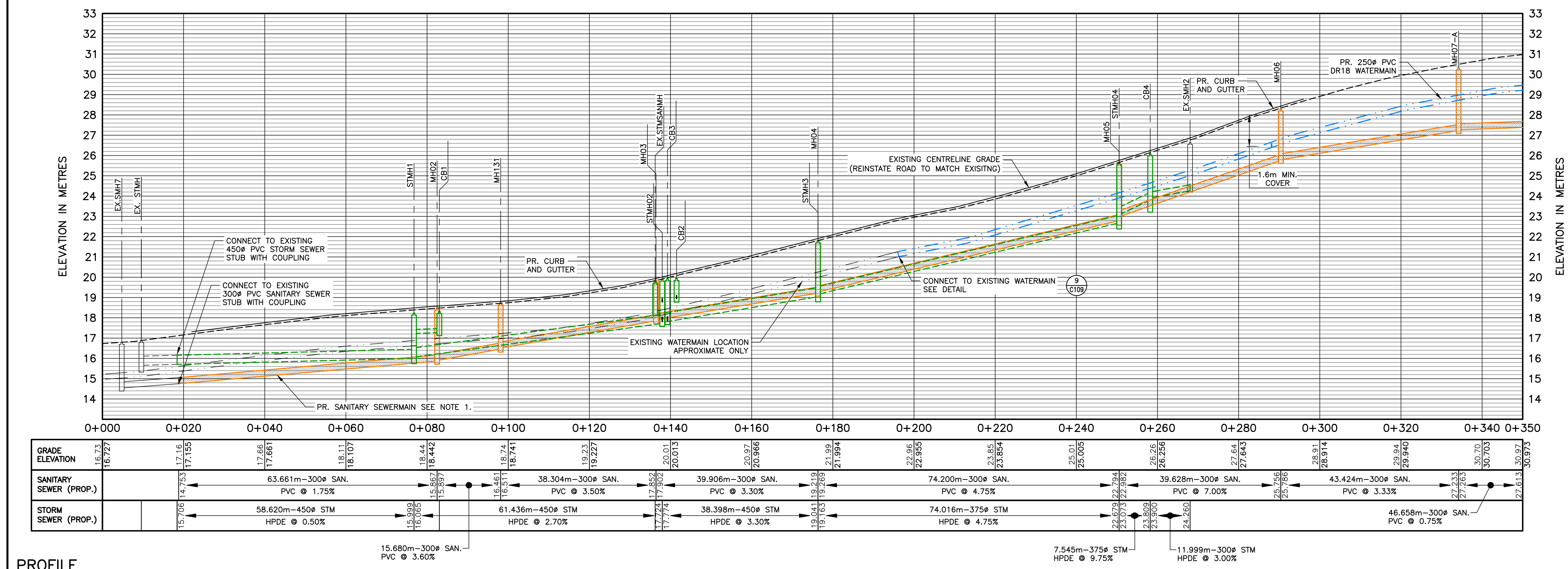
- LEGEND**
- SANITARY SEWER (EX.)
 - SANITARY SEWER (PR.)
 - SANITARY MH (EX.)
 - SANITARY MH (PR.)
 - SANITARY FORCEMAIN (EX.)
 - SANITARY FORCEMAIN (PR.)
 - SANITARY PUMP STATION (EX.)
 - SANITARY PUMP STATION (PR.)
 - STORM CATCHBASIN (SQ.) (EX.)
 - STORM CATCHBASIN (SQ.) (PR.)
 - STORM SEWER (EX.)
 - STORM SEWER (PR.)
 - STORM MH (EX.)
 - STORM MH (PR.)
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 - WATERMAIN (PR.)
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 - GATE VALVE (PR.)
 - WATERMAIN FITTINGS (PR.)
 - WATERMAIN BENDS (PR.)
 - FIRE HYDRANT (EX.)
 - FIRE HYDRANT (PR.)
 - U/G POWER (EX.)
 - U/G POWER (PR.)
 - O/H POWER (EX.)
 - O/H POWER (PR.)
 - UTILITY POLE (EX.)
 - UTILITY POLE (PR.)
 - TOP OF SLOPE (EX.)
 - TOP OF SLOPE (PR.)
 - ROAD SHOULDER (EX.)
 - ROAD SHOULDER (PR.)
 - CURB (PR.)
 - PROPERTY LINE (EX.)
 - ASPHALT DRIVEWAY (EX.)
 - BORE HOLE (EX.)
 - DRILLED WELL (EX.)
 - DUG WELL (EX.)

PROPOSED STORM SEWER CB

DESIGNATION	COORDINATE	INV. IN	FROM	INV. OUT	TO
CB1	48772539.5063 25483394.4931			17.270m (200#)	STMH1
CB2	4877513.7886 25483446.8439			18.922m (200#)	STMH02
CB3	4877509.4036 25483442.2911			17.818m (200#)	STMH02
CB4	4877457.0590 25483548.5288	23.900m (300#)	EX. SMH02 (375#)	23.809m (375#)	STMH04



- NOTES:**
- FOR GENERAL NOTES SEE C000



STATION	GRADE ELEVATION	SANITARY SEWER (PROP.)	STORM SEWER (PROP.)
0+000	16.73		
0+020	16.727		
0+040	17.16	63.661m-300# SAN. PVC @ 1.75%	58.620m-450# STM HPDE @ 0.50%
0+060	17.155		
0+080	17.66		
0+100	17.661		
0+120	18.11	38.304m-300# SAN. PVC @ 3.50%	61.436m-450# STM HPDE @ 2.70%
0+140	18.107		
0+160	18.44		
0+180	18.442	39.906m-300# SAN. PVC @ 4.75%	38.398m-450# STM HPDE @ 3.30%
0+200	18.74		
0+220	18.741		
0+240	19.23		
0+260	19.227	74.200m-300# SAN. PVC @ 4.75%	74.016m-375# STM HPDE @ 4.75%
0+280	20.01		
0+300	20.013	39.628m-300# SAN. PVC @ 7.00%	
0+320	20.97		
0+340	20.966	43.424m-300# SAN. PVC @ 3.33%	46.658m-300# SAN. PVC @ 0.75%
0+350	21.99		
	21.994		
	22.96		
	22.955		
	23.85		
	23.854		
	25.01		
	25.005		
	25.01		
	25.005		
	26.26		
	26.256		
	27.64		
	27.643		
	28.91		
	28.914		
	29.94		
	29.940		
	30.70		
	30.703		
	30.97		
	30.973		

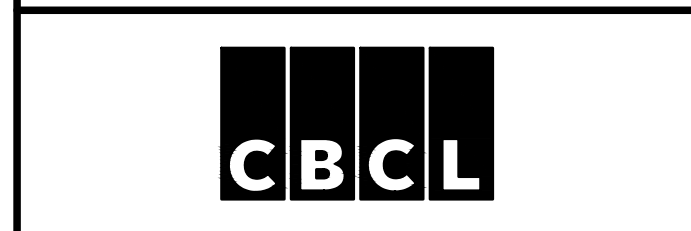
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No.	ISSUED FOR TENDER	Description	Date	By
0			JUL 03/25	RWM

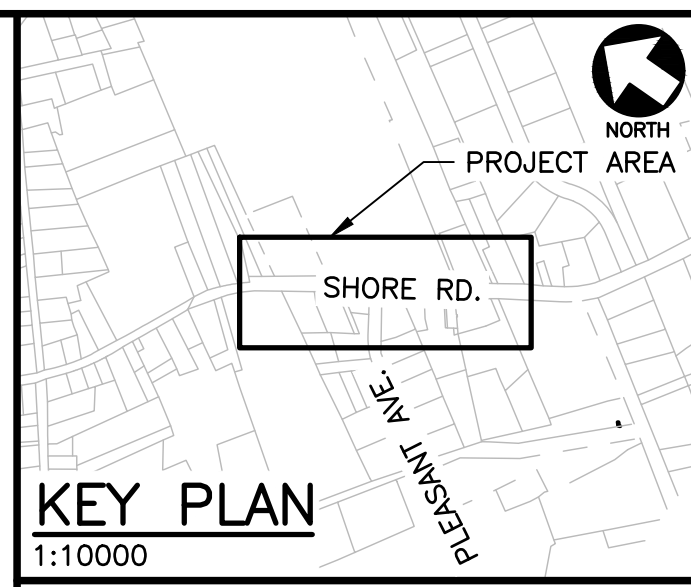
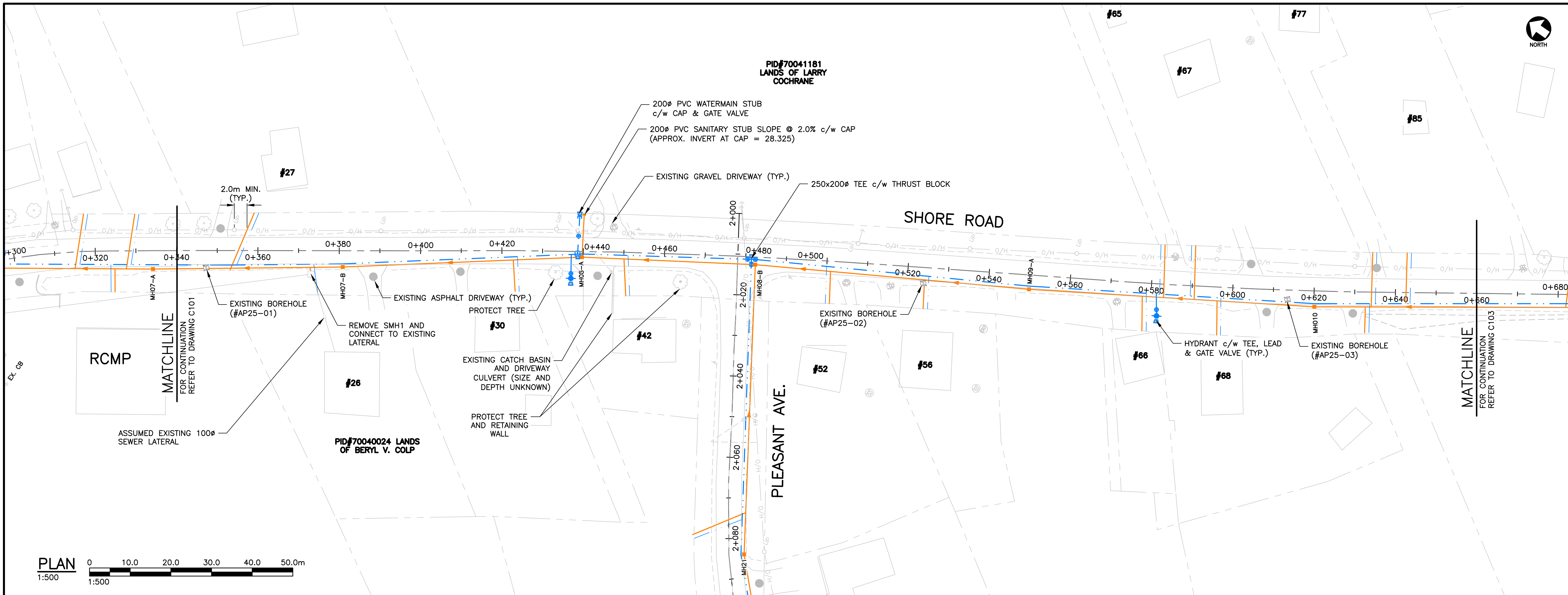


MUNICIPALITY OF QUEENS
MOUNT PLEASANT SERVICING EXTENSION

CIVIL
PLAN & PROFILE - SHORE ROAD STA. 0+000 - 0+340



Client No: 241008.00	Contract No: -
Date: FEB 2025	Scale: AS NOTED
Designed: RWM	Drawn: DS/RWM
Checked: SC	Approved: RWM
Sheet No: 3	of 15
Drawing No: C101	

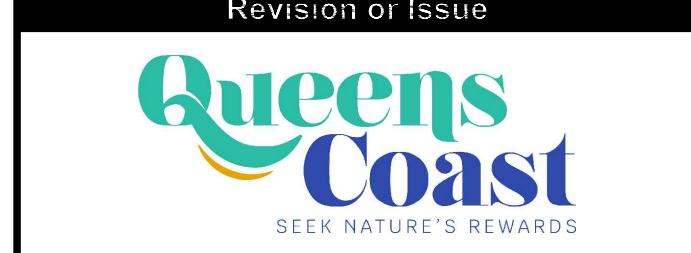


LEGEND

- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- SANITARY PUMP STATION (EX.)
- SANITARY PUMP STATION (PR.)
- STORM CATCHBASIN (SQ.) (EX.)
- STORM CATCHBASIN (SQ.) (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM MH (EX.)
- STORM MH (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- U/G POWER (EX.)
- U/G POWER (PR.)
- O/H POWER (EX.)
- O/H POWER (PR.)
- UTILITY POLE (EX.)
- UTILITY POLE (PR.)
- TOP OF SLOPE (EX.)
- TOP OF SLOPE (PR.)
- ROAD SHOULDER (EX.)
- BOTTOM OF SLOPE (EX.)
- BOTTOM OF SLOPE (PR.)
- PROPERTY LINE (EX.)
- ASPHALT DRIVEWAY (EX.)
- GRAVEL DRIVEWAY (EX.)
- BORE HOLE (EX.)
- DRILLED WELL (EX.)
- DUG WELL (EX.)

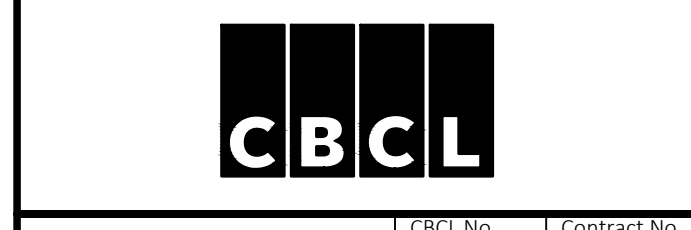
NOTES:
1. FOR GENERAL NOTES SEE C000

No.	Description	Date	By
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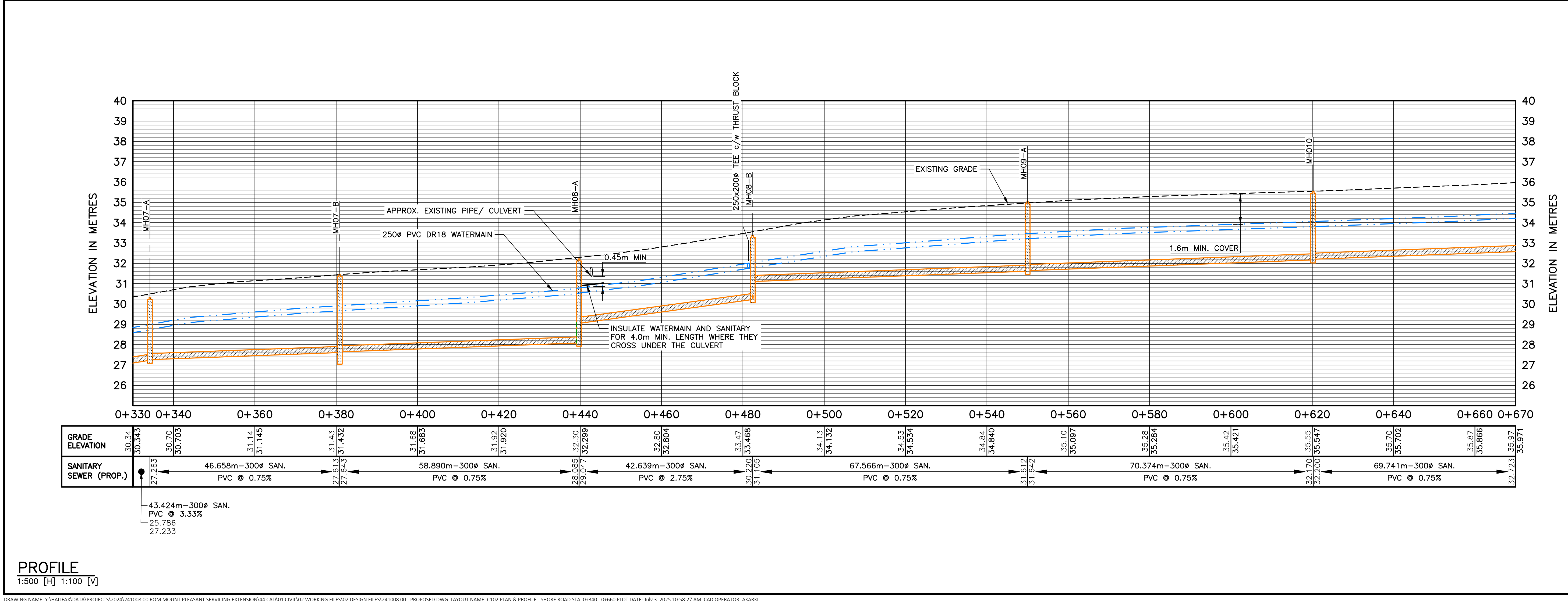


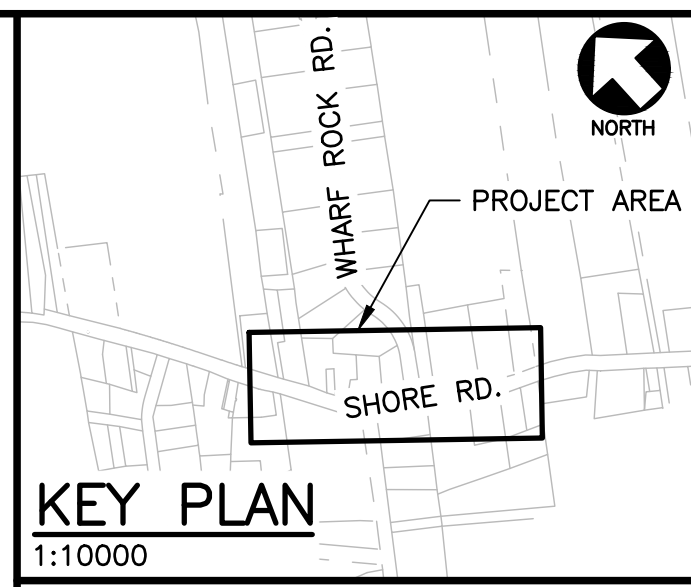
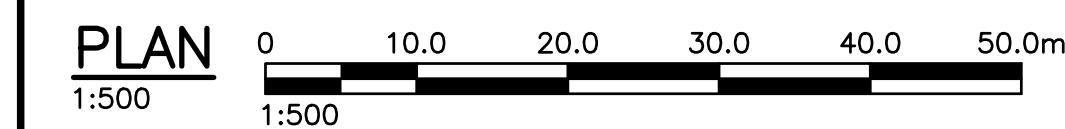
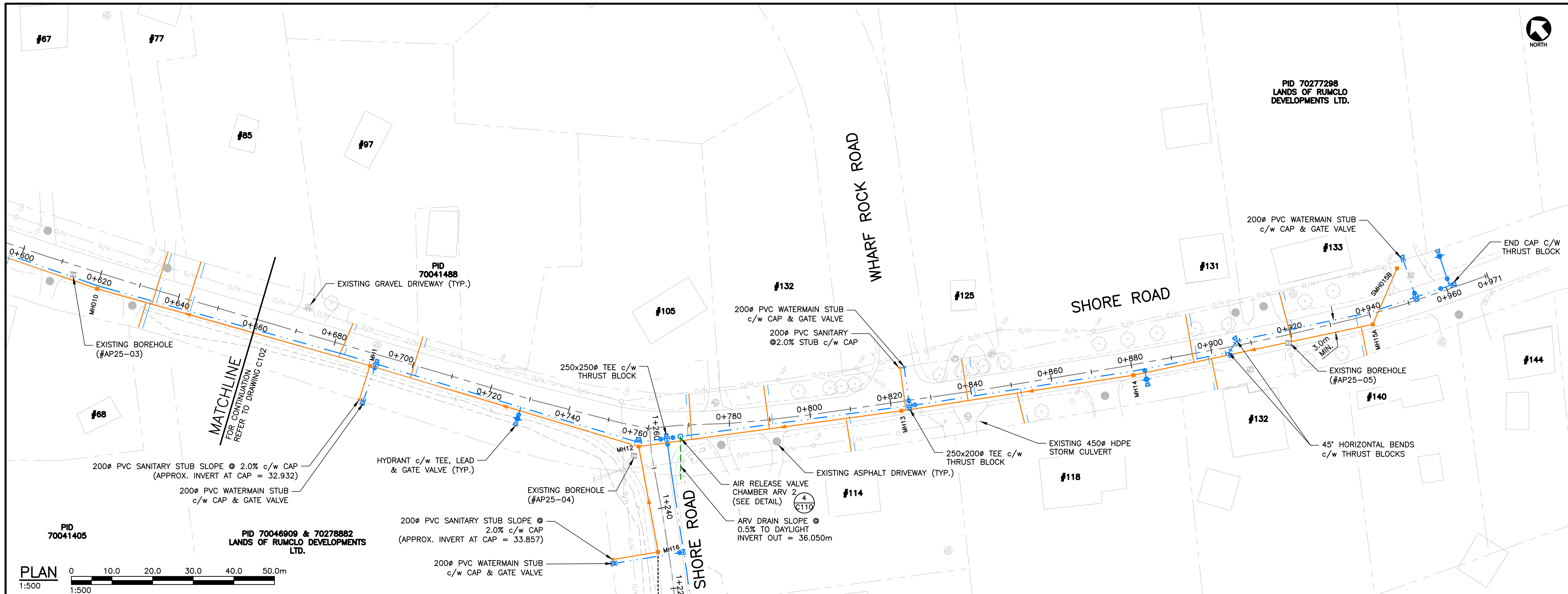
MUNICIPALITY OF QUEENS
MOUNT PLEASANT SERVICING
EXTENSION

CIVIL
PLAN & PROFILE - SHORE
ROAD STA. 0+340 - 0+660



CLIENT No. 241008.00	Contract No. -
Date FEB 2025	Scale AS NOTED
Designed RWM	Drawn DS/RWM
Checked SC	Approved RWM
Sheet No. 4	of 15
C102	

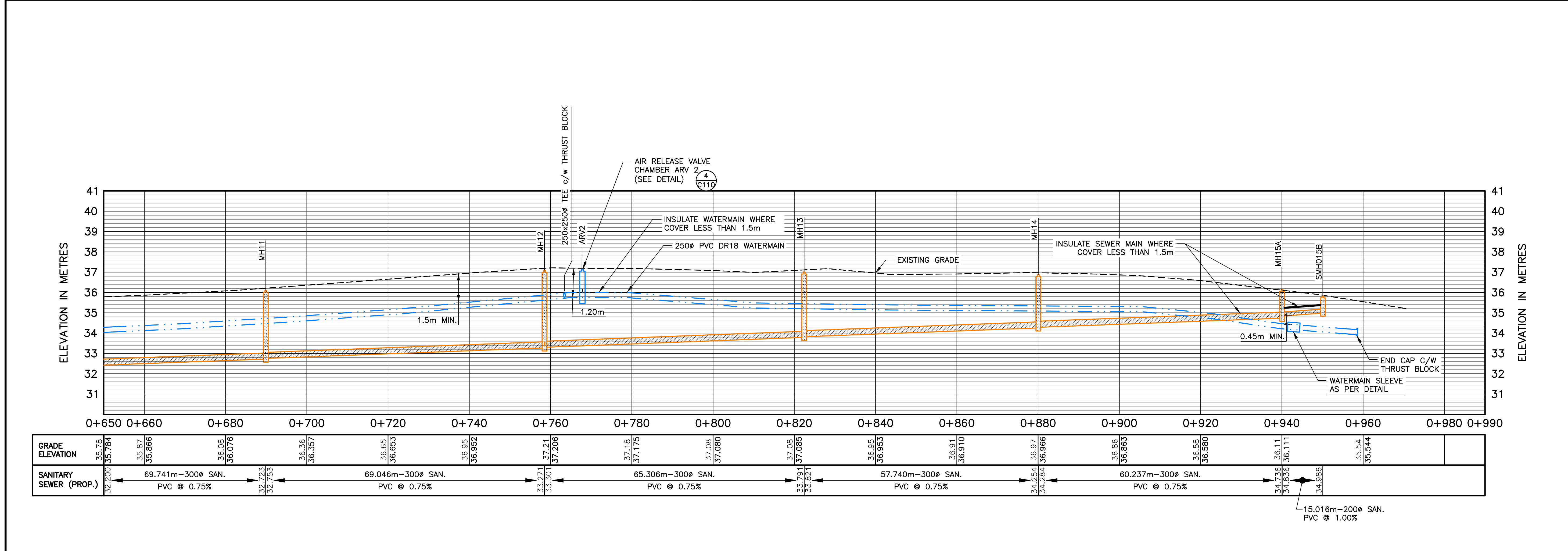




LEGEND

- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- SANITARY PUMP STATION (EX.)
- SANITARY PUMP STATION (PR.)
- STORM CATCHBASIN (SQ.) (EX.)
- STORM CATCHBASIN (SQ.) (PR.)
- STORM SEWER (PR.)
- STORM MH (EX.)
- STORM MH (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- U/G POWER (EX.)
- U/G POWER (PR.)
- O/H POWER (EX.)
- O/H POWER (PR.)
- UTILITY POLE (EX.)
- UTILITY POLE (PR.)
- TOP OF SLOPE (EX.)
- TOP OF SLOPE (PR.)
- ROAD SHOULDER (EX.)
- BOTTOM OF SLOPE (EX.)
- BOTTOM OF SLOPE (PR.)
- PROPERTY LINE (EX.)
- ASPHALT DRIVEWAY (EX.)
- GRAVEL DRIVEWAY (EX.)
- BORE HOLE (EX.)
- DRILLED WELL (EX.)
- DUG WELL (EX.)

NOTES:
1. FOR GENERAL NOTES SEE C000



PROFILE
1:500 [H] 1:100 [V]

No.	Description	Date	By
0	ISSUED FOR TENDER	JUL 03/25	RWM

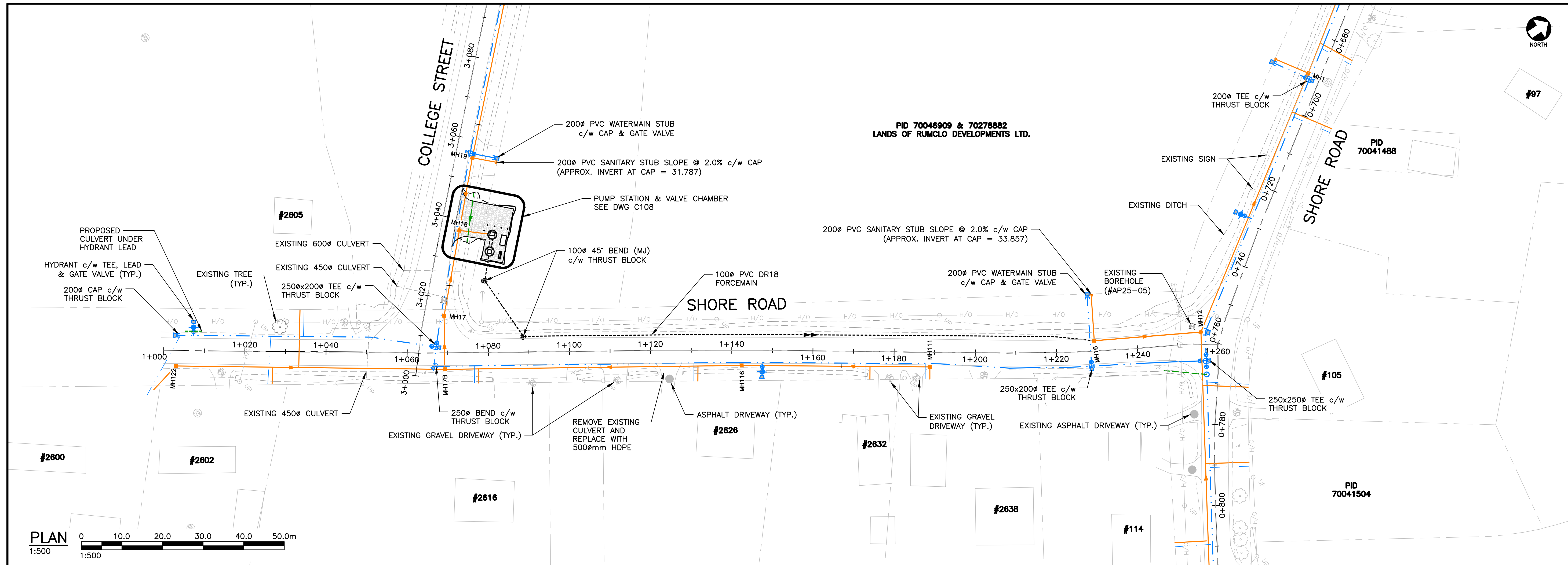
Revision or Issue

MUNICIPALITY OF QUEENS
MOUNT PLEASANT SERVICING
EXTENSION

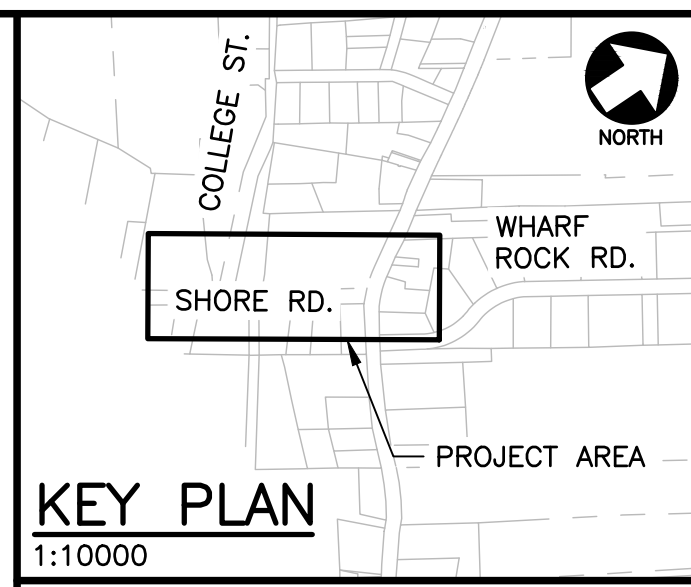
CIVIL

PLAN & PROFILE - SHORE
ROAD STA. 0+660 - 0+970

CBCL No. 241008.00	Contract No. -
Date FEB 2025	Scale AS NOTED
Designed RWM	Drawn DS/RWM
Checked SC	Approved RWM
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PLAN
1:500

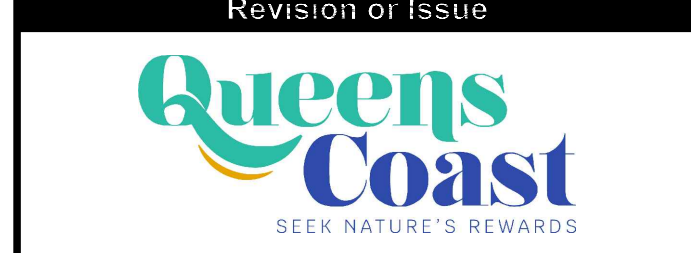


KEY PLAN
1:10000

- LEGEND**
- SANITARY SEWER (EX.)
 - SANITARY SEWER (PR.)
 - SANITARY MH (EX.)
 - SANITARY MH (PR.)
 - SANITARY FORCEMAIN (EX.)
 - SANITARY FORCEMAIN (PR.)
 - SANITARY PUMP STATION (EX.)
 - SANITARY PUMP STATION (PR.)
 - STORM CATCHBASIN (SQ.) (EX.)
 - STORM CATCHBASIN (SQ.) (PR.)
 - STORM SEWER (EX.)
 - STORM SEWER (PR.)
 - STORM MH (EX.)
 - STORM MH (PR.)
 - WATERMAIN (EX.)
 - WATERMAIN (PR.)
 - GATE VALVE (EX.)
 - GATE VALVE (PR.)
 - WATERMAIN FITTINGS (PR.)
 - WATERMAIN BENDS (PR.)
 - FIRE HYDRANT (EX.)
 - FIRE HYDRANT (PR.)
 - U/G POWER (EX.)
 - U/G POWER (PR.)
 - O/H POWER (EX.)
 - O/H POWER (PR.)
 - UTILITY POLE (EX.)
 - UTILITY POLE (PR.)
 - TOP OF SLOPE (EX.)
 - TOP OF SLOPE (PR.)
 - ROAD SHOULDER (EX.)
 - BOTTOM OF SLOPE (EX.)
 - BOTTOM OF SLOPE (PR.)
 - PROPERTY LINE (EX.)
 - ASPHALT DRIVEWAY (EX.)
 - GRAVEL DRIVEWAY (EX.)
 - BORE HOLE (EX.)
 - DRILLED WELL (EX.)
 - DUG WELL (EX.)

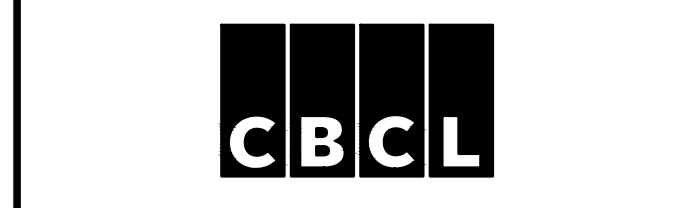
NOTES:
1. FOR GENERAL NOTES SEE C000

No.	Description	Date	By
0	ISSUED FOR TENDER	JUL 03/25	RWM

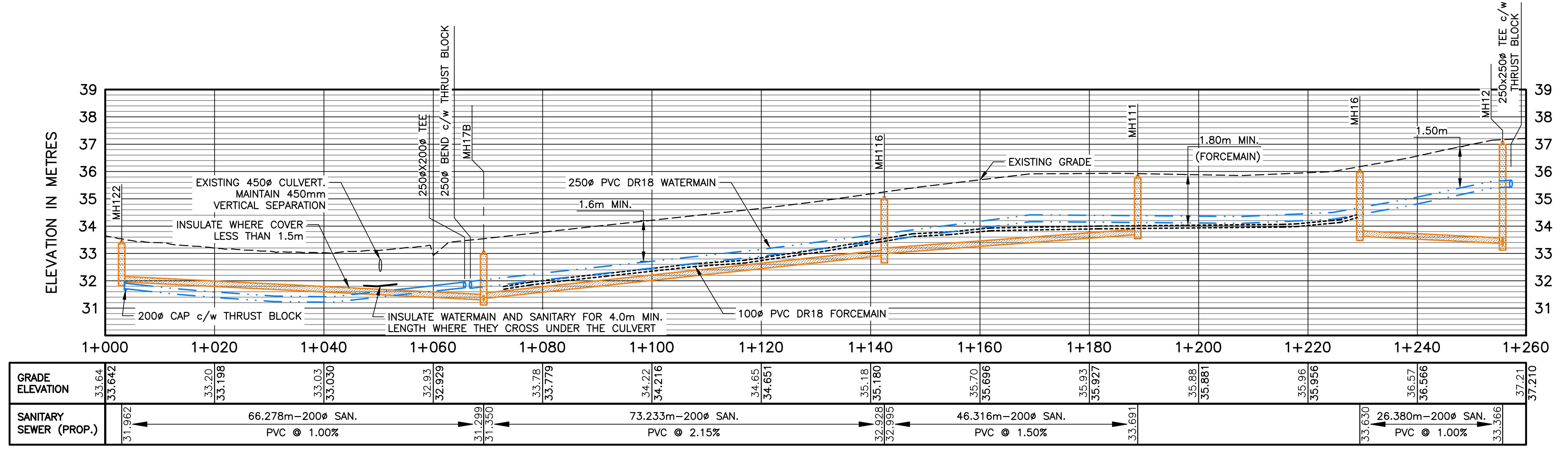


MUNICIPALITY OF QUEENS
MOUNT PLEASANT SERVICING
EXTENSION

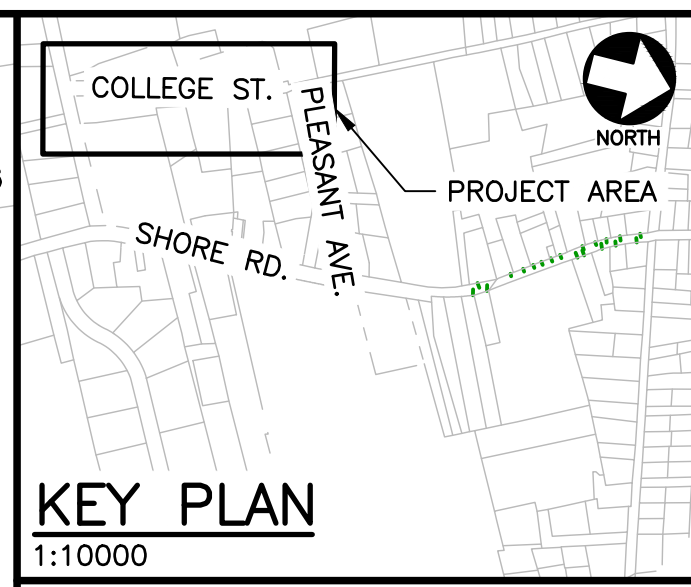
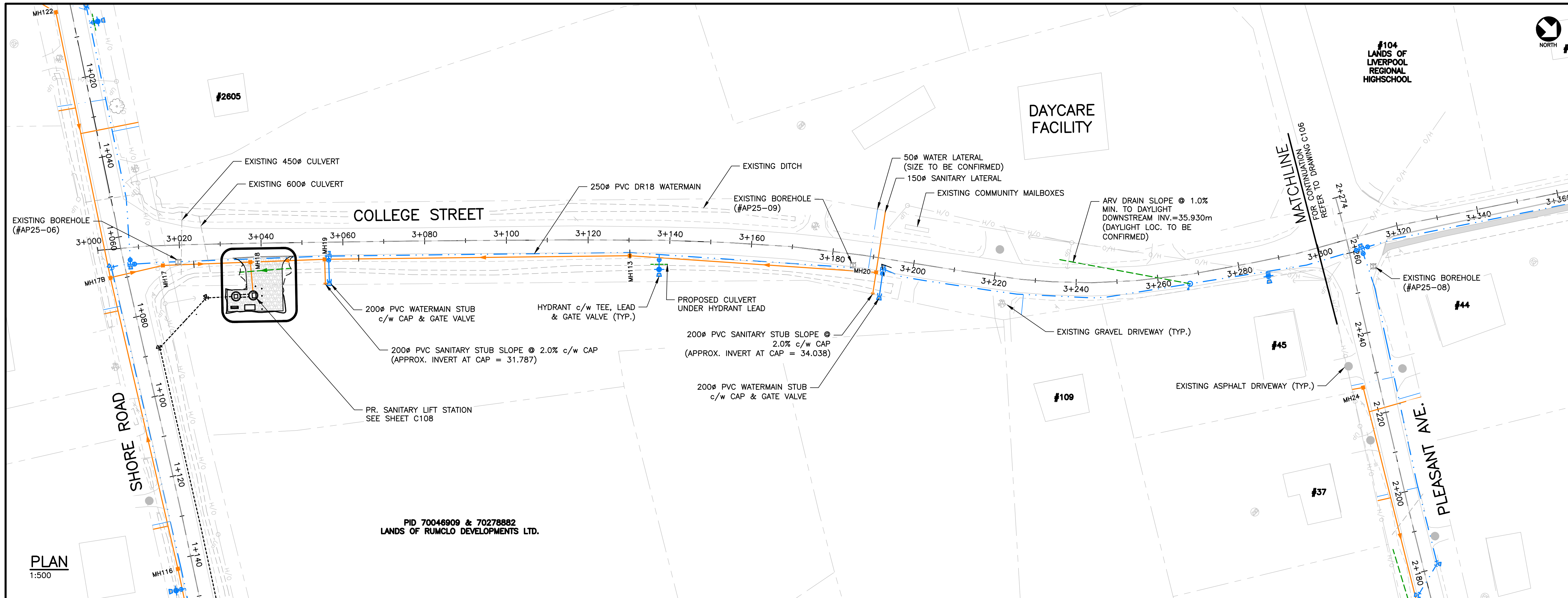
CIVIL
PLAN & PROFILE - SHORE
ROAD SOUTHBOUND



	Contract No. 241008.00 Date FEB 2025 Scale AS NOTED Designed RWM Drawn DS/RWM Checked SC Approved RWM Sheet No. 6 of 15 Drawing No. C104
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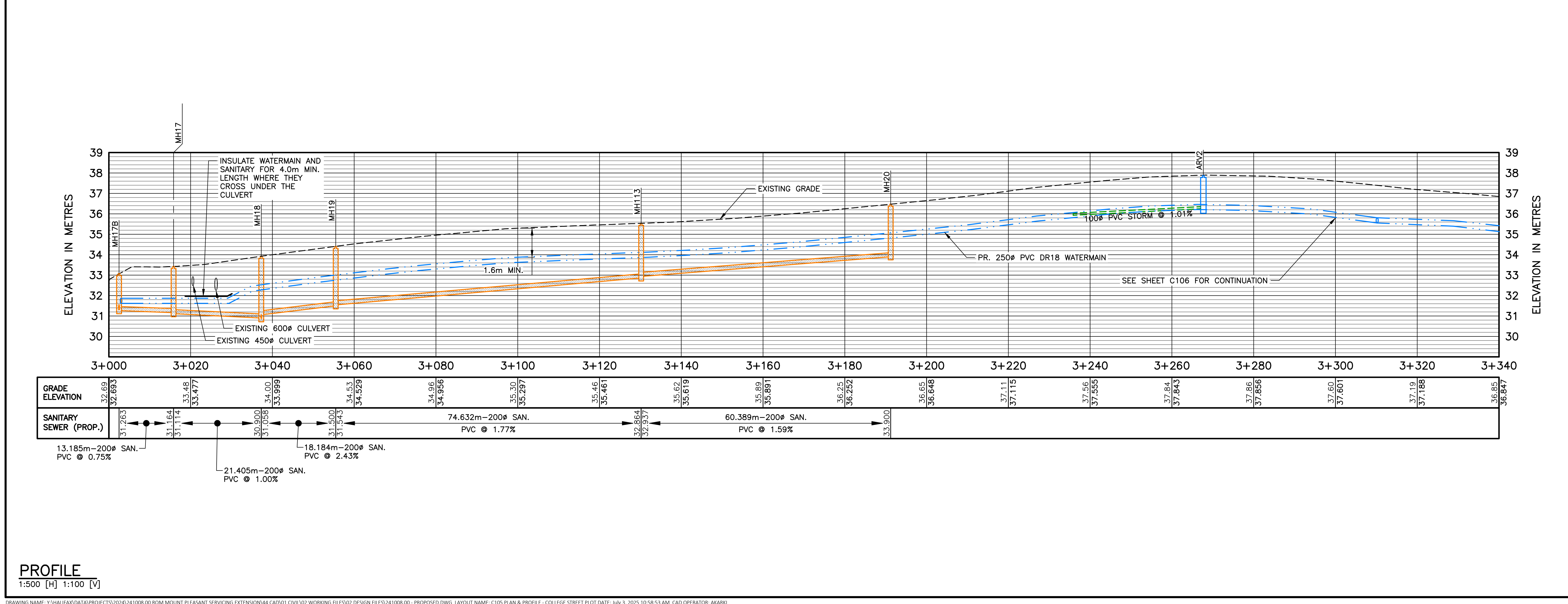
PROFILE
1:500 [H] 1:100 [V]



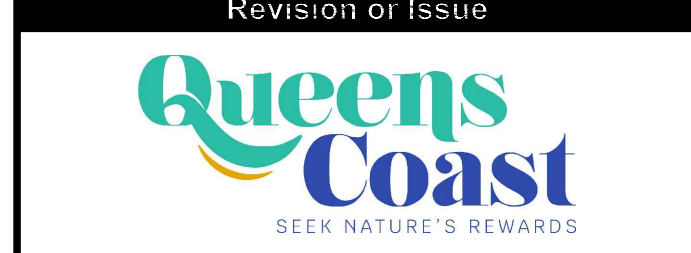
LEGEND

- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- SANITARY PUMP STATION (EX.)
- SANITARY PUMP STATION (PR.)
- STORM CATCHBASIN (SQ.) (EX.)
- STORM CATCHBASIN (SQ.) (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM MH (EX.)
- STORM MH (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (PR.)
- GATE VALVE (EX.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- U/G POWER (EX.)
- U/G POWER (PR.)
- O/H POWER (EX.)
- O/H POWER (PR.)
- UTILITY POLE (EX.)
- UTILITY POLE (PR.)
- TOP OF SLOPE (EX.)
- TOP OF SLOPE (PR.)
- ROAD SHOULDER (EX.)
- BOTTOM OF SLOPE (EX.)
- BOTTOM OF SLOPE (PR.)
- PROPERTY LINE (EX.)
- ASPHALT DRIVEWAY (EX.)
- GRAVEL DRIVEWAY (EX.)
- BORE HOLE (EX.)
- DRILLED WELL (EX.)
- DUG WELL (EX.)

NOTES:
1. FOR GENERAL NOTES SEE C000

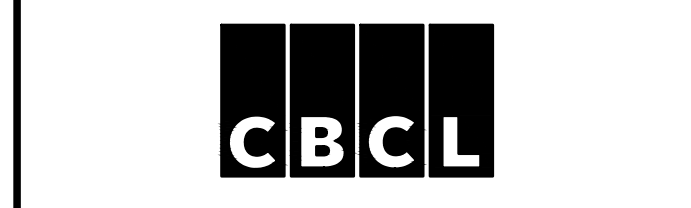


No.	Description	Date	By
0	ISSUED FOR TENDER	JUL 03/25	RWM

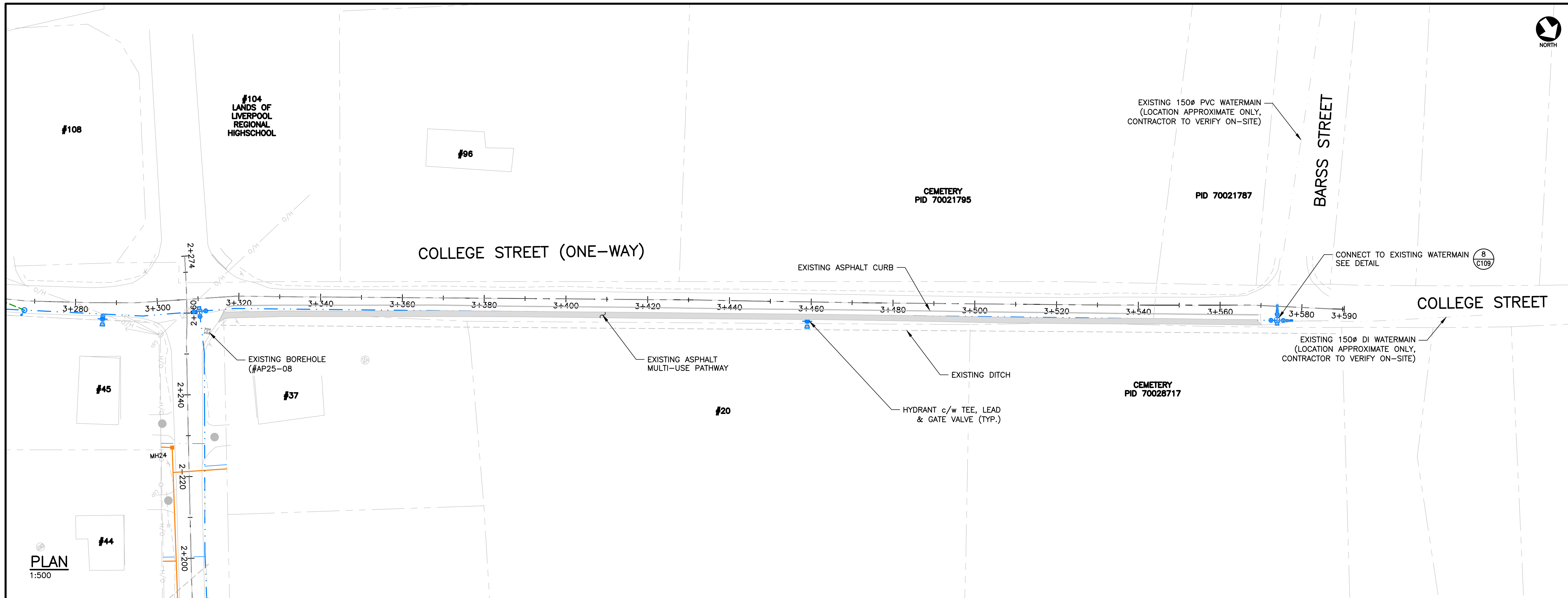


MUNICIPALITY OF QUEENS
MOUNT PLEASANT SERVICING
EXTENSION

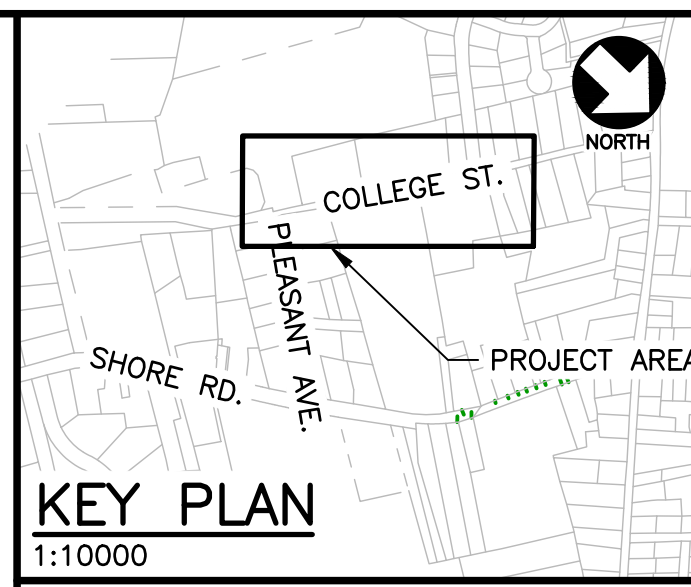
CIVIL
PLAN & PROFILE - COLLEGE
STREET



CBCL No. 241008.00	Contract No. -
Date FEB 2025	Scale AS NOTED
Designed RWM	Drawn DS/RWM
Checked SC	Approved RWM
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C105	



PLAN
1:500

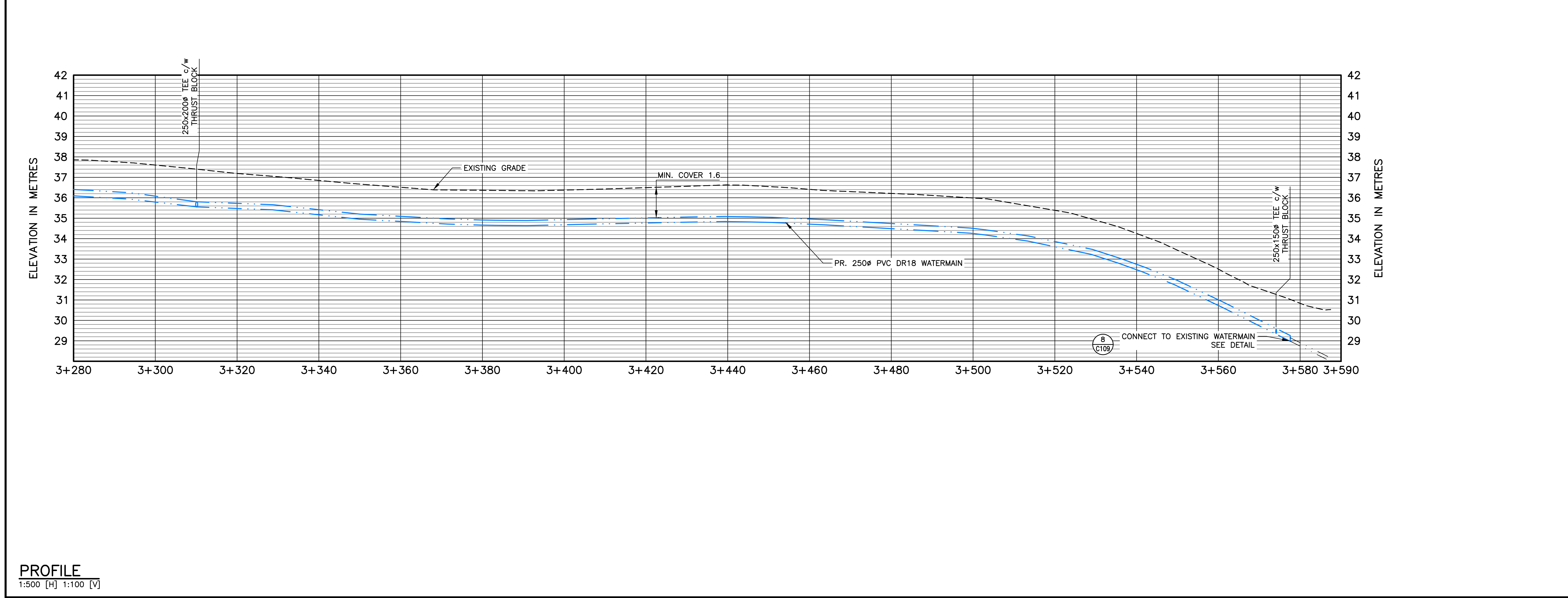


KEY PLAN
1:10000

LEGEND

- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- SANITARY PUMP STATION (EX.)
- SANITARY PUMP STATION (PR.)
- STORM CATCHBASIN (SQ.) (EX.)
- STORM CATCHBASIN (SQ.) (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM MH (EX.)
- STORM MH (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- U/G POWER (EX.)
- U/G POWER (PR.)
- O/H POWER (EX.)
- O/H POWER (PR.)
- UTILITY POLE (EX.)
- UTILITY POLE (PR.)
- TOP OF SLOPE (EX.)
- TOP OF SLOPE (PR.)
- ROAD SHOULDER (EX.)
- BOTTOM OF SLOPE (EX.)
- BOTTOM OF SLOPE (PR.)
- PROPERTY LINE (EX.)
- ASPHALT DRIVEWAY (EX.)
- GRAVEL DRIVEWAY (EX.)
- BORE HOLE (EX.)
- DRILLED WELL (EX.)
- DUG WELL (EX.)

NOTES:
1. FOR GENERAL NOTES SEE C000



PROFILE
1:500 [H] 1:100 [V]

No.	Description	Date	By
0	ISSUED FOR TENDER	JUL 03/25	RWM

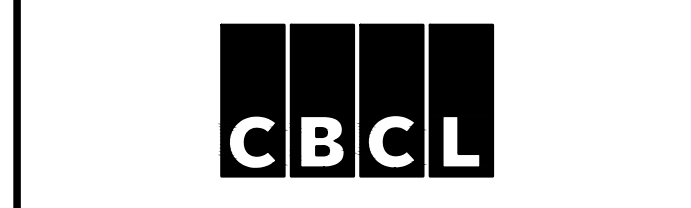
Revision or Issue



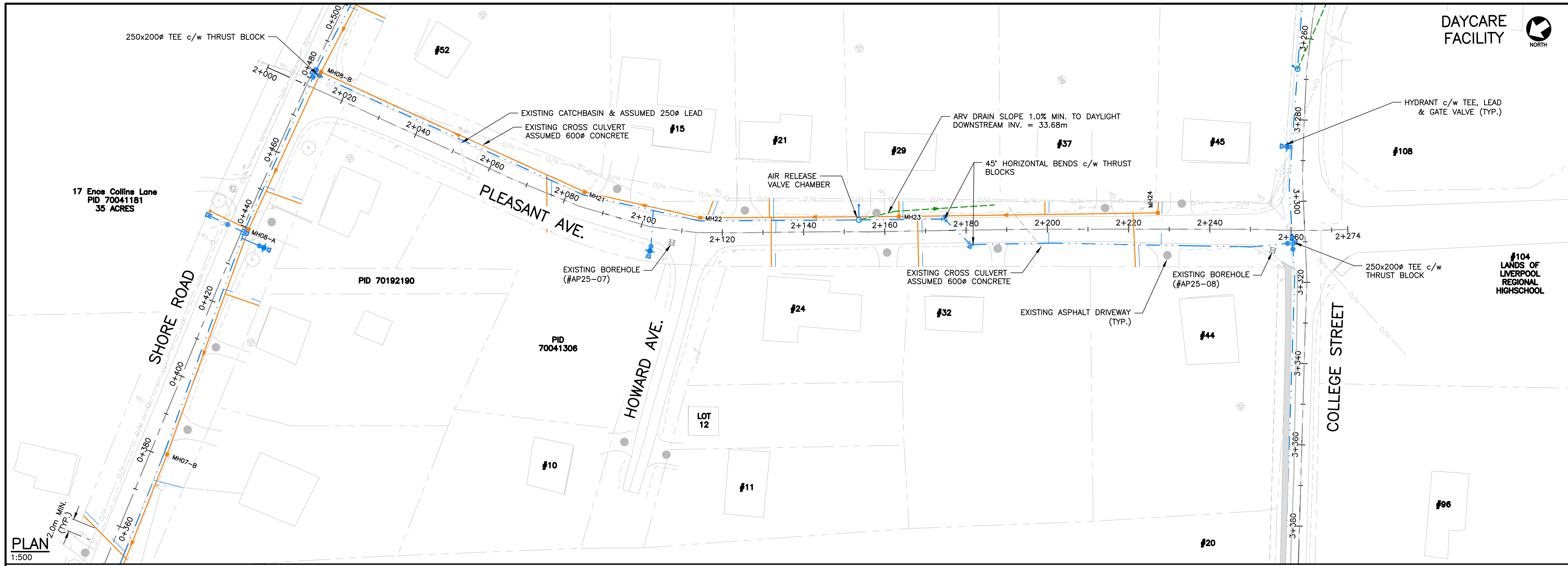
MUNICIPALITY OF QUEENS
MOUNT PLEASANT SERVICING
EXTENSION

CIVIL

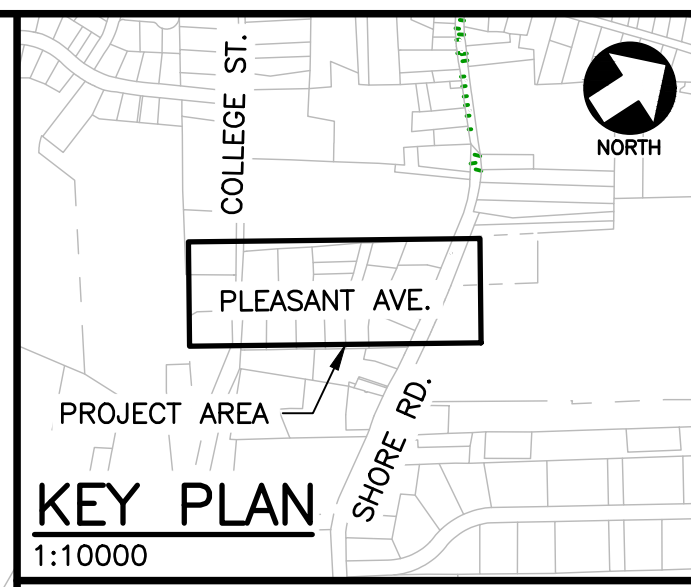
PLAN & PROFILE - COLLEGE
STREET WATER EXTENSION



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Date FEB 2025	Scale AS NOTED
Designed RWM	Drawn DS/RWM
Checked SC	Approved RWM
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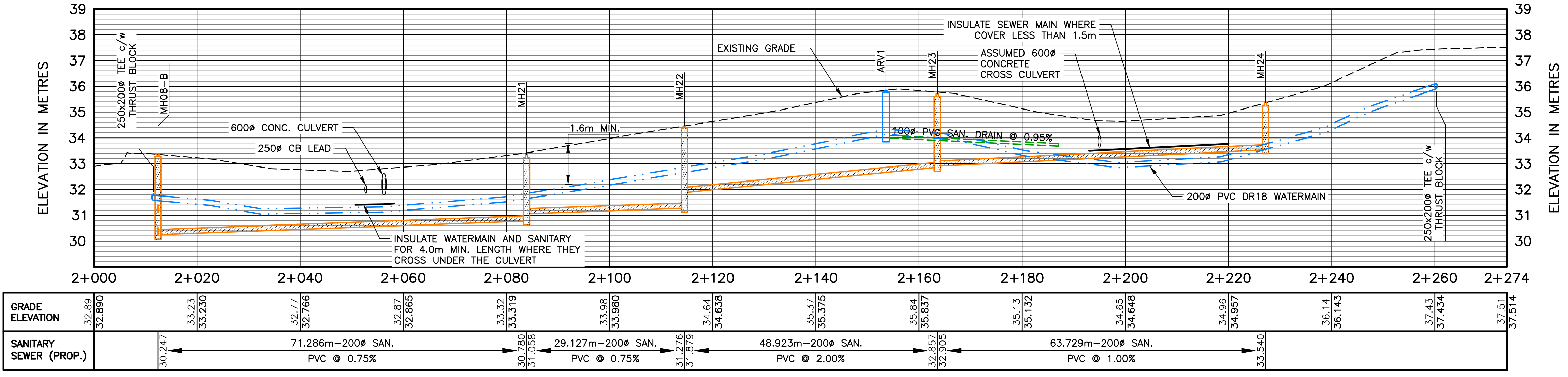


PLAN
1:500



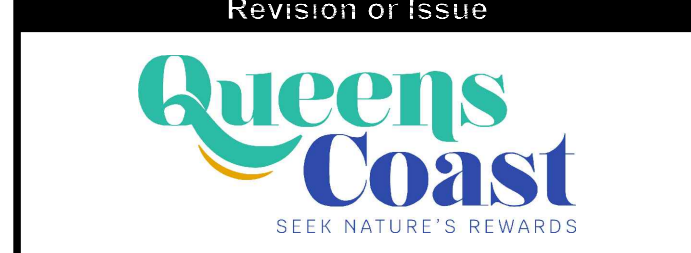
- LEGEND**
- SANITARY SEWER (EX.)
 - SANITARY SEWER (PR.)
 - SANITARY MH (EX.)
 - SANITARY MH (PR.)
 - SANITARY FORCE MAIN (EX.)
 - SANITARY FORCE MAIN (PR.)
 - SANITARY PUMP STATION (EX.)
 - SANITARY PUMP STATION (PR.)
 - STORM CATCHBASIN (SQ.) (EX.)
 - STORM CATCHBASIN (SQ.) (PR.)
 - STORM SEWER (EX.)
 - STORM SEWER (PR.)
 - STORM MH (EX.)
 - STORM MH (PR.)
 - WATERMAIN (EX.)
 - WATERMAIN (PR.)
 - GATE VALVE (EX.)
 - GATE VALVE (PR.)
 - WATERMAIN FITTINGS (PR.)
 - FIRE HYDRANT (EX.)
 - FIRE HYDRANT (PR.)
 - U/G POWER (EX.)
 - U/G POWER (PR.)
 - O/H POWER (EX.)
 - O/H POWER (PR.)
 - UTILITY POLE (EX.)
 - UTILITY POLE (PR.)
 - TOP OF SLOPE (EX.)
 - TOP OF SLOPE (PR.)
 - ROAD SHOULDER (EX.)
 - BOTTOM OF SLOPE (EX.)
 - BOTTOM OF SLOPE (PR.)
 - PROPERTY LINE (EX.)
 - ASPHALT DRIVEWAY (EX.)
 - GRAVEL DRIVEWAY (EX.)
 - BORE HOLE (EX.)
 - DRILLED WELL (EX.)
 - DUG WELL (EX.)

NOTES:
1. FOR GENERAL NOTES SEE C000



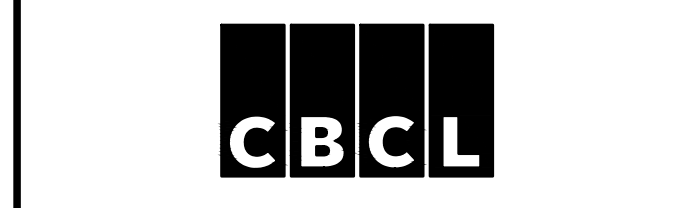
PROFILE
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No.	Description	Date	By
0	ISSUED FOR TENDER	JUL 03/25	RWM

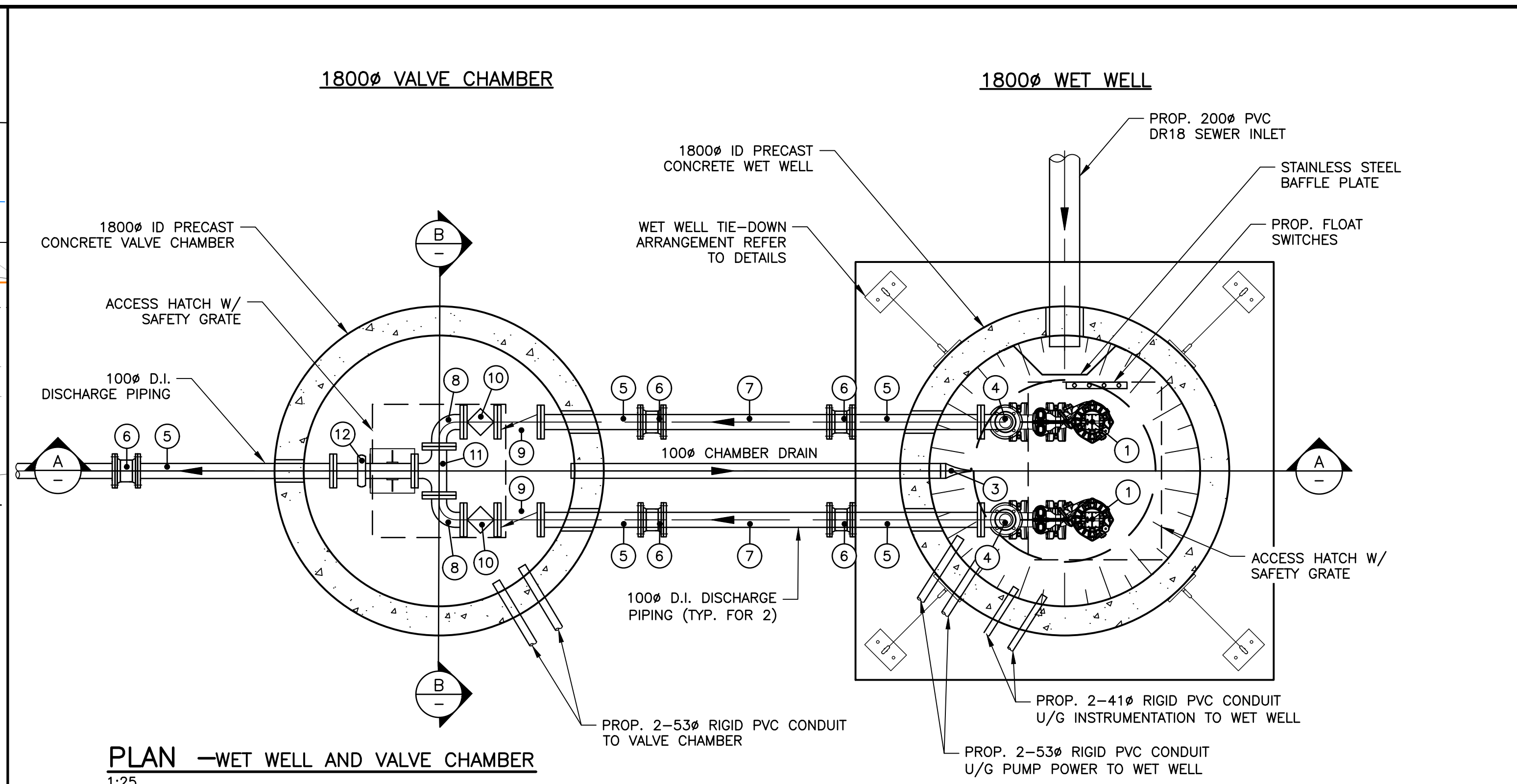
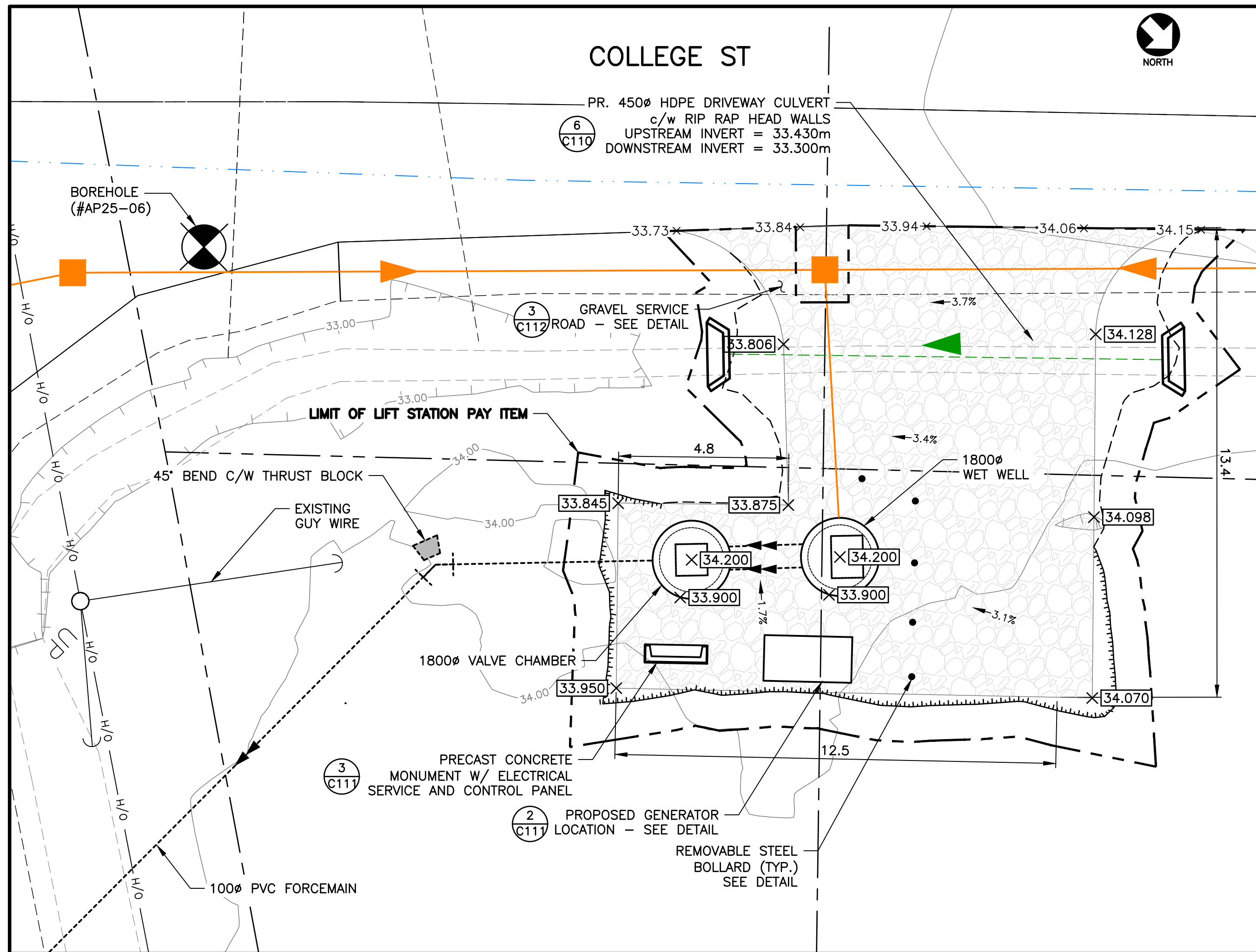


MUNICIPALITY OF QUEENS
MOUNT PLEASANT SERVICING EXTENSION

CIVIL
PLAN & PROFILE - PLEASANT AVE.

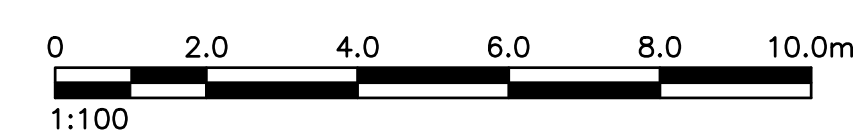


Contract No. 241008.00	Scale AS NOTED
Date FEB 2025	Drawn DS/RWM
Designed RWM	Approved RWM
Checked SC	Sheet No. 9 of 15
Professional Engineer R. W. Macdonald 20210854 PROFESSIONAL ENGINEER PROVINCE OF ONTARIO	Drawing No. C107

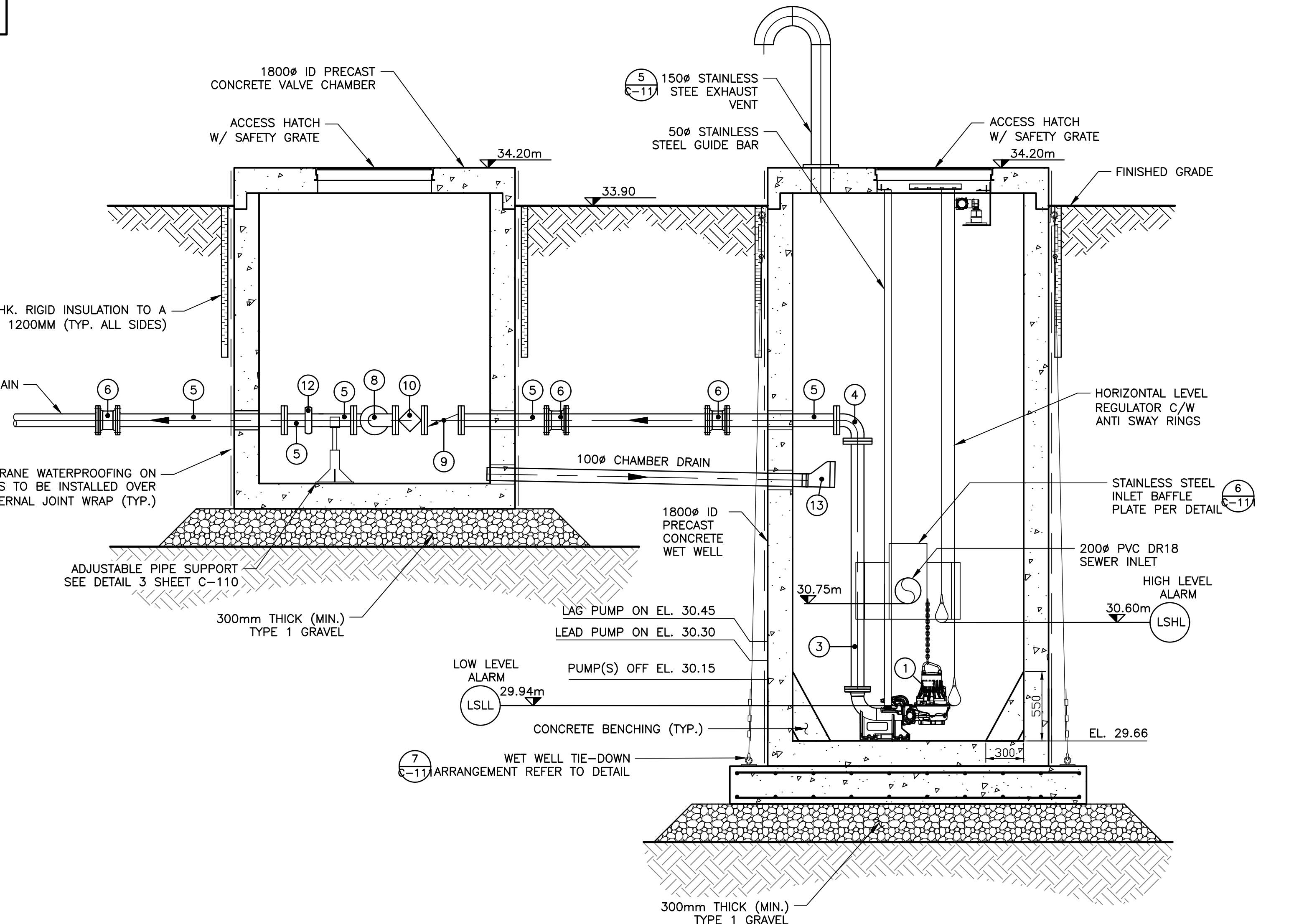


PLAN - WET WELL AND VALVE CHAMBER
1:25

SITE PLAN - PUMP STATION
1:100



LIST OF FITTINGS				
No.	QTY.	DESCRIPTION	(6)	(13)
1	2	SUBMERSIBLE PUMP C/W DISCHARGE BASE, LIFTING CHAINS, S.S. GUIDE BARS, & ACCESSORIES	5	1
2	-	-	7	
3	2	100 ϕ STAINLESS STEEL MAKE UP PIPE (FLG.-FLG.)	8	
4	2	100 ϕ STAINLESS STEEL 90 \circ BEND (FLG.)	9	
5	5	100 ϕ DUCTILE IRON MAKE UP PIPE (FLG.-P.E.)	10	
			11	
			12	



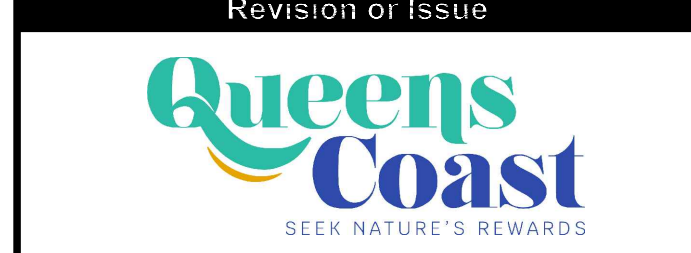
SECTION - WET WELL AND VALVE CHAMBER
1:25

LEGEND

- SANITARY SEWER (EX.)
- SANITARY SEWER (PR.)
- SANITARY MH (EX.)
- SANITARY MH (PR.)
- SANITARY FORCEMAIN (EX.)
- SANITARY FORCEMAIN (PR.)
- SANITARY PUMP STATION (EX.)
- SANITARY PUMP STATION (PR.)
- STORM CATCHBASIN (SQ.) (EX.)
- STORM CATCHBASIN (SQ.) (PR.)
- STORM SEWER (EX.)
- STORM SEWER (PR.)
- STORM MH (EX.)
- STORM MH (PR.)
- WATERMAIN (EX.)
- WATERMAIN (PR.)
- GATE VALVE (EX.)
- GATE VALVE (PR.)
- WATERMAIN FITTINGS (PR.)
- WATERMAIN BENDS (PR.)
- FIRE HYDRANT (EX.)
- FIRE HYDRANT (PR.)
- U/G POWER (EX.)
- U/G POWER (PR.)
- O/H POWER (EX.)
- O/H POWER (PR.)
- UTILITY POLE (EX.)
- UTILITY POLE (PR.)
- TOP OF SLOPE (EX.)
- TOP OF SLOPE (PR.)
- ROAD SHOULDER (EX.)
- BOTTOM OF SLOPE (EX.)
- BOTTOM OF SLOPE (PR.)
- PROPERTY LINE (EX.)
- GRAVEL (PR.)
- ASPHALT DRIVEWAY (EX.)
- GRAVEL DRIVEWAY (EX.)
- BORE HOLE (EX.)
- DRILLED WELL (EX.)
- DUG WELL (EX.)

NOTES:
1. FOR GENERAL NOTES SEE C000

No.	Description	Date	By
0	ISSUED FOR TENDER	JUL 03/25	RWM

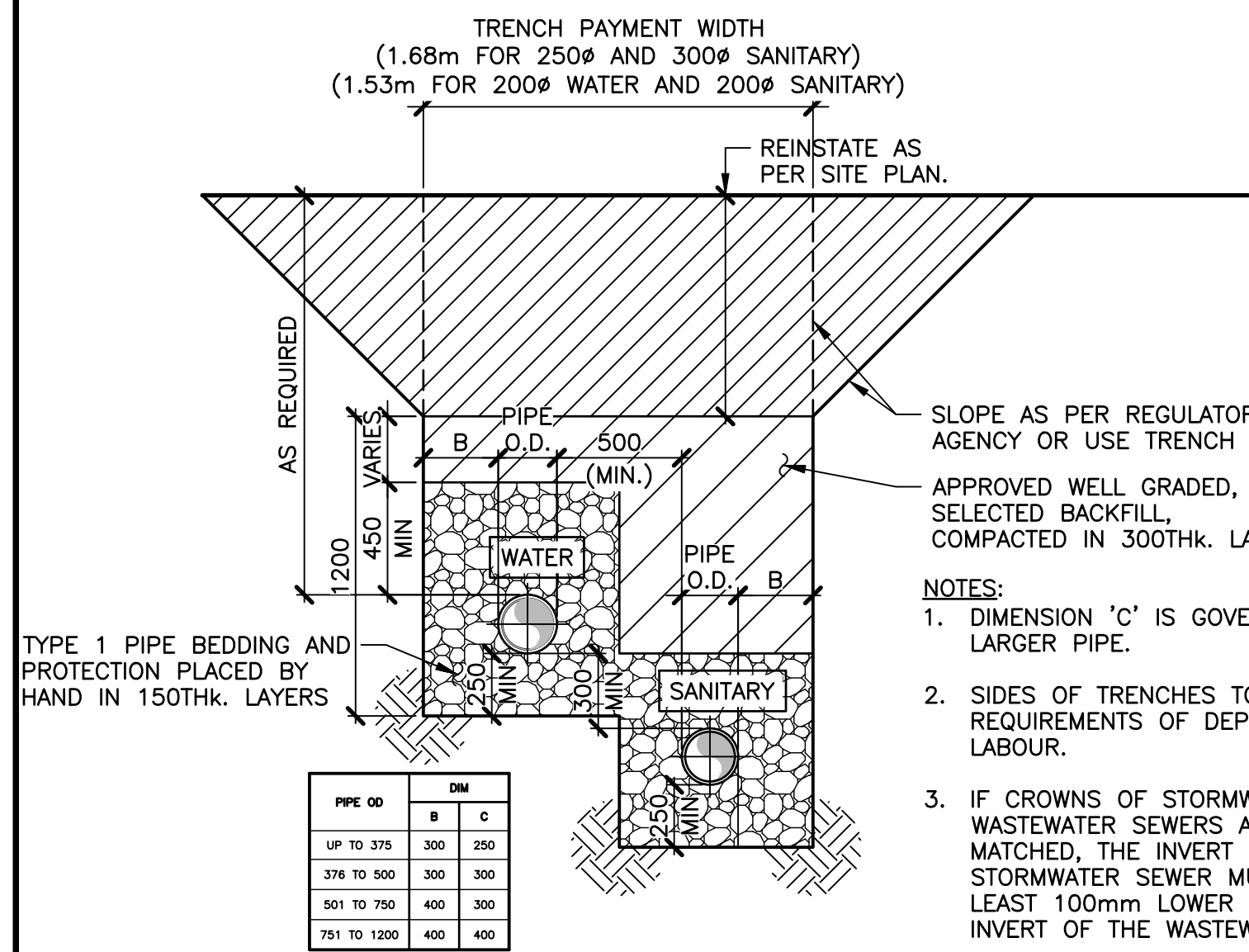


MUNICIPALITY OF QUEENS
MOUNT PLEASANT WATER AND SANITARY SERVICING EXTENSION

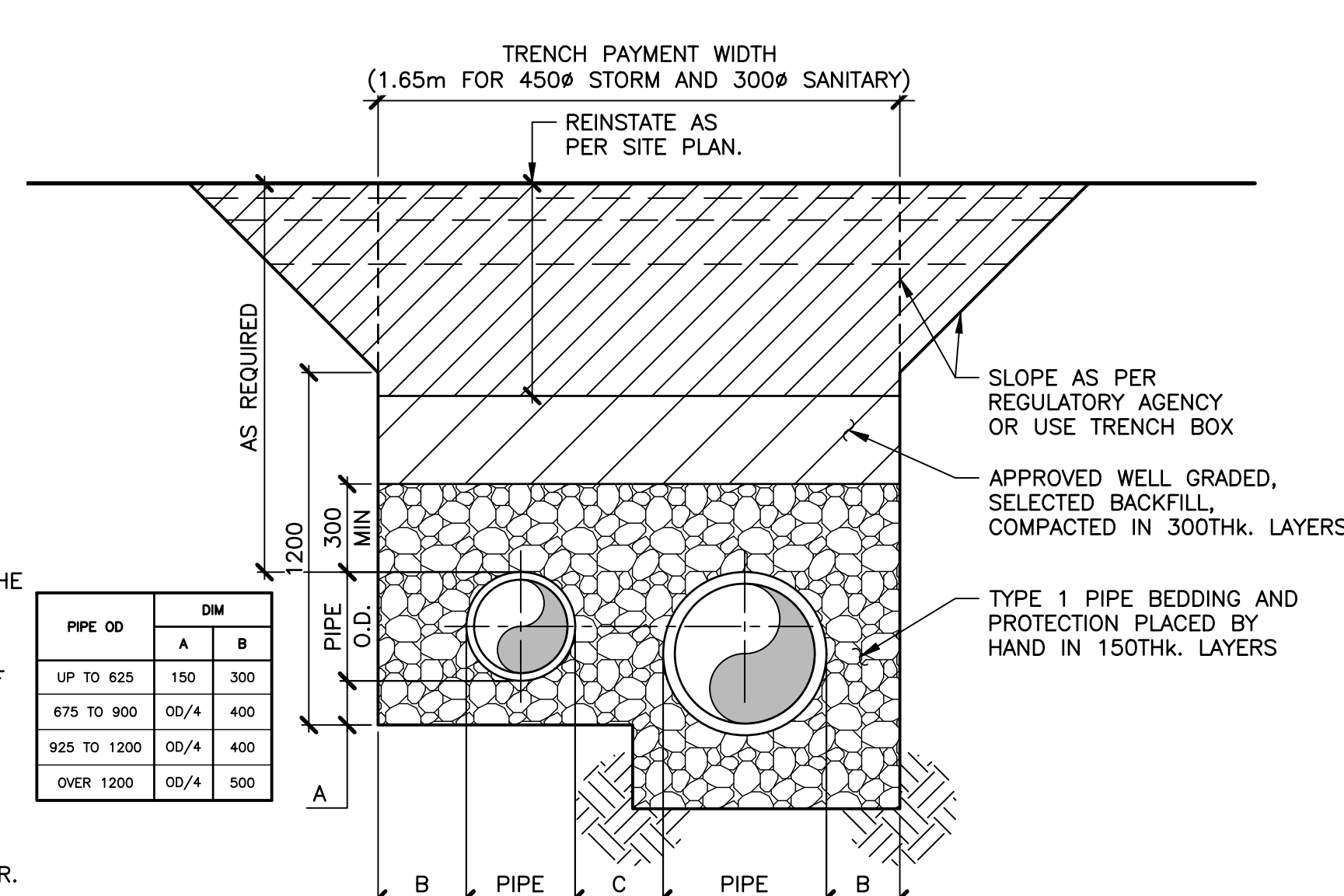
CIVIL
SITE PLAN - PUMP STATION



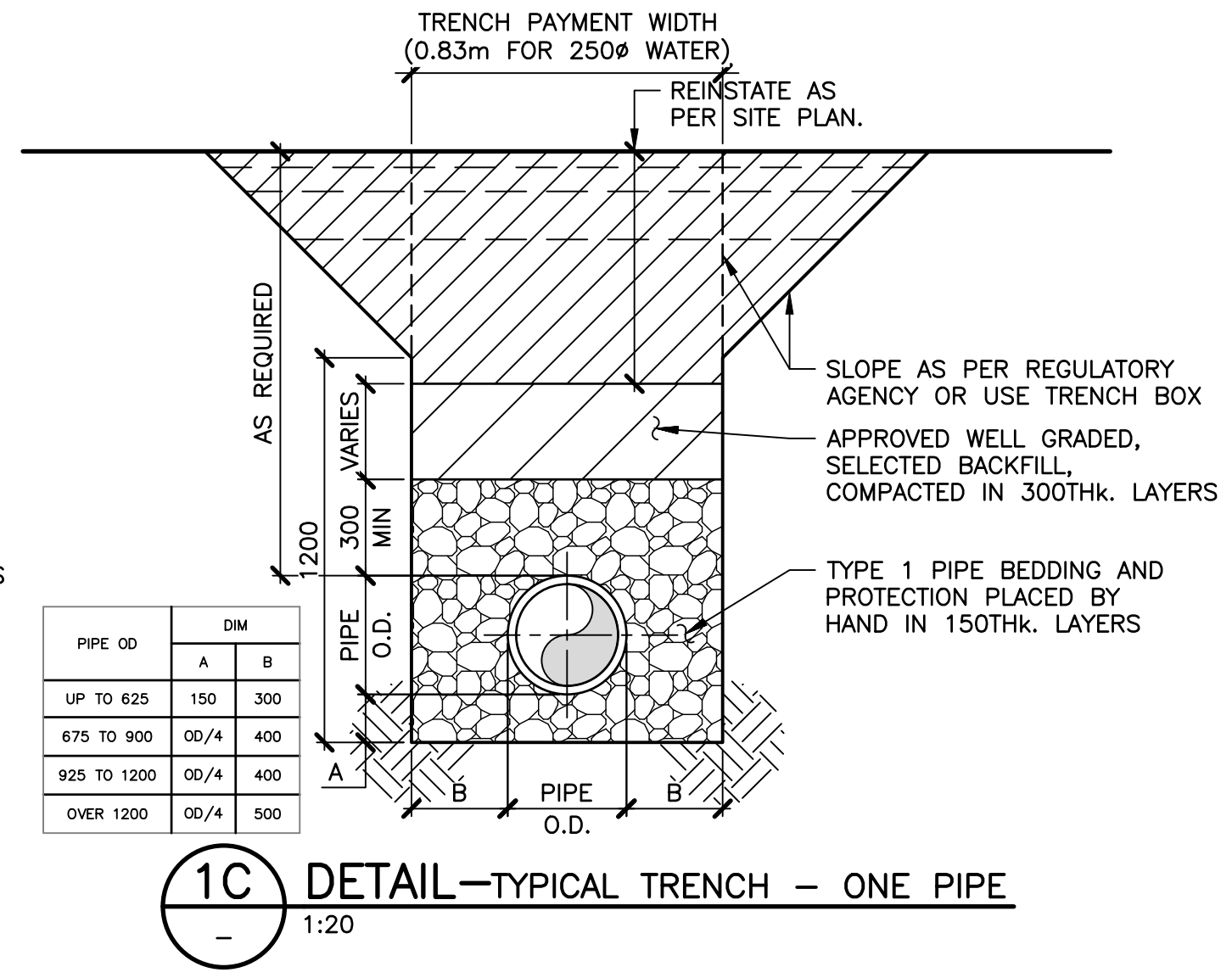
CBCL No. 241008.00	Contract No.
Date FEB 2025	Scale AS NOTED
Designed RWM	Drawn DS/RWM
Checked JC	Approved RWM
Sheet No. 10	of 15
C108	



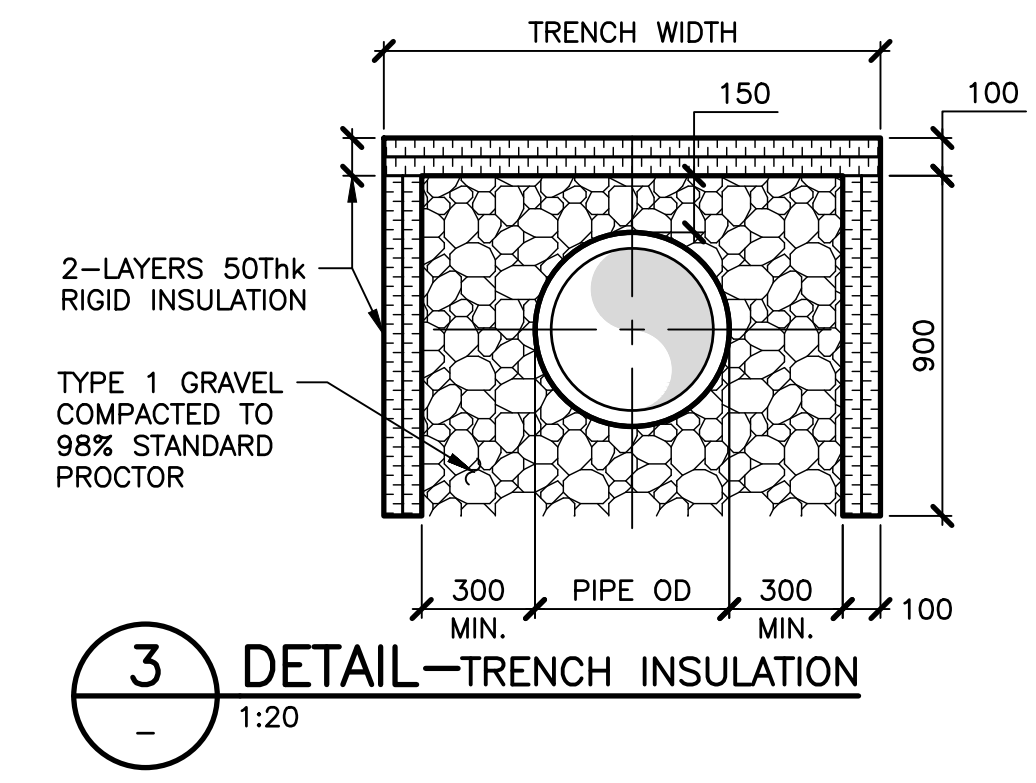
1A TYPICAL TRENCH - SANITARY & WATERMAIN
1:25



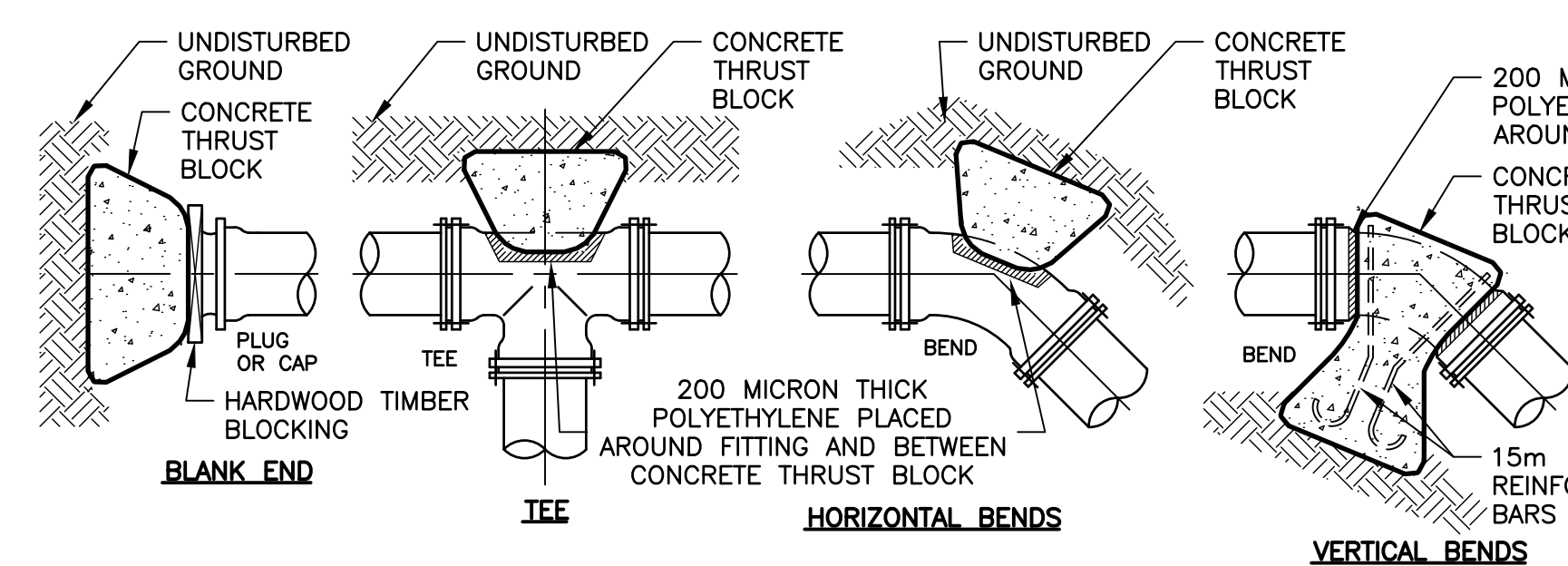
1B TYPICAL TRENCH - SANITARY & STORM
1:20



1C TYPICAL TRENCH - ONE PIPE
1:20



3 DETAIL - TRENCH INSULATION
1:20

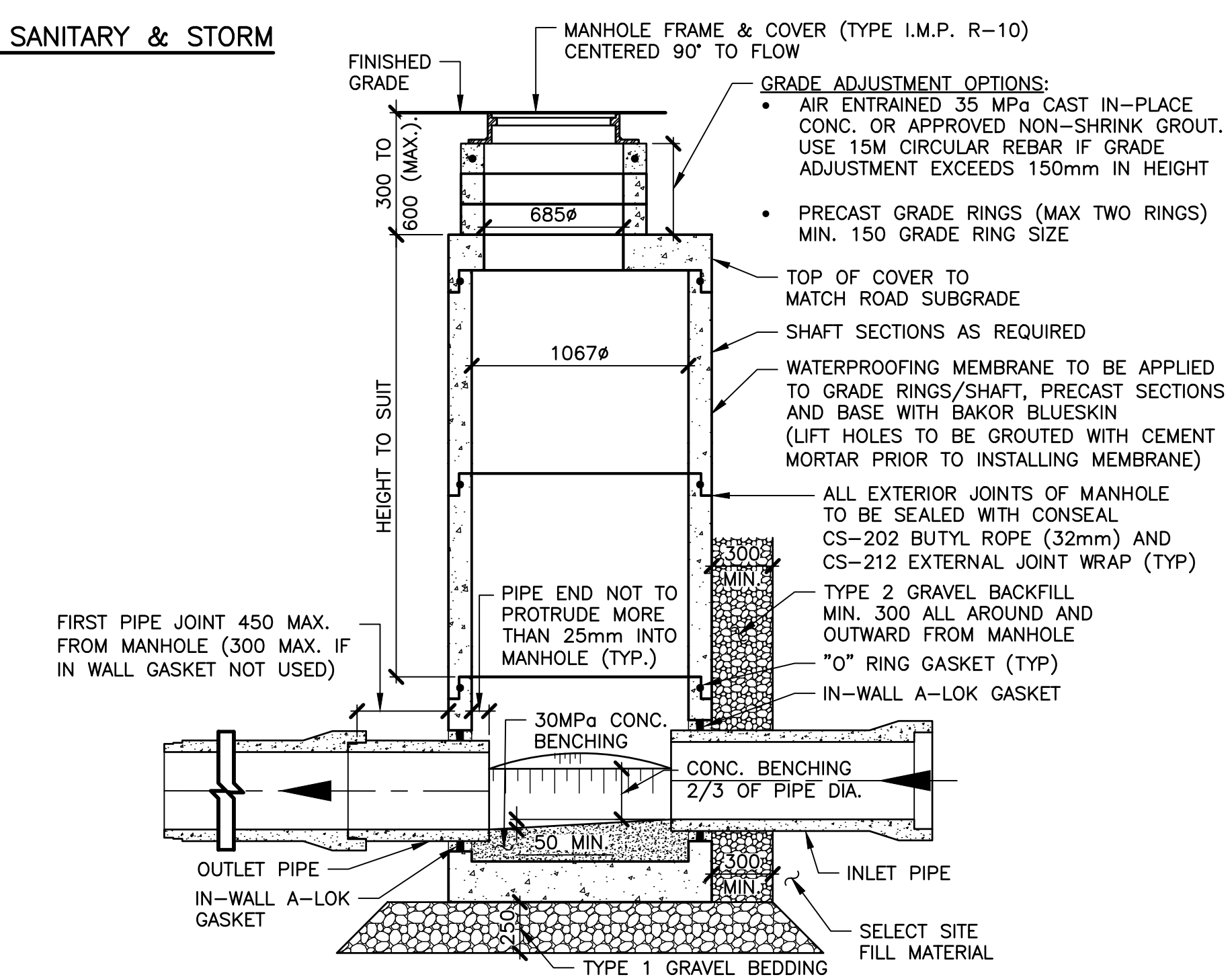


MINIMUM CONTACT AREAS FOR CONC. THRUST BLOCKS					
PIPE Ø mm	CAP/PLUG	TEE	90° BEND	45° BEND	22.5° BEND
100	0.25	0.25	0.32	0.20	0.16
150	0.48	0.48	0.64	0.40	0.24
200	0.80	0.80	1.12	0.64	0.32
250	1.28	1.28	1.76	0.96	0.48
300	1.76	1.76	2.56	1.44	0.72

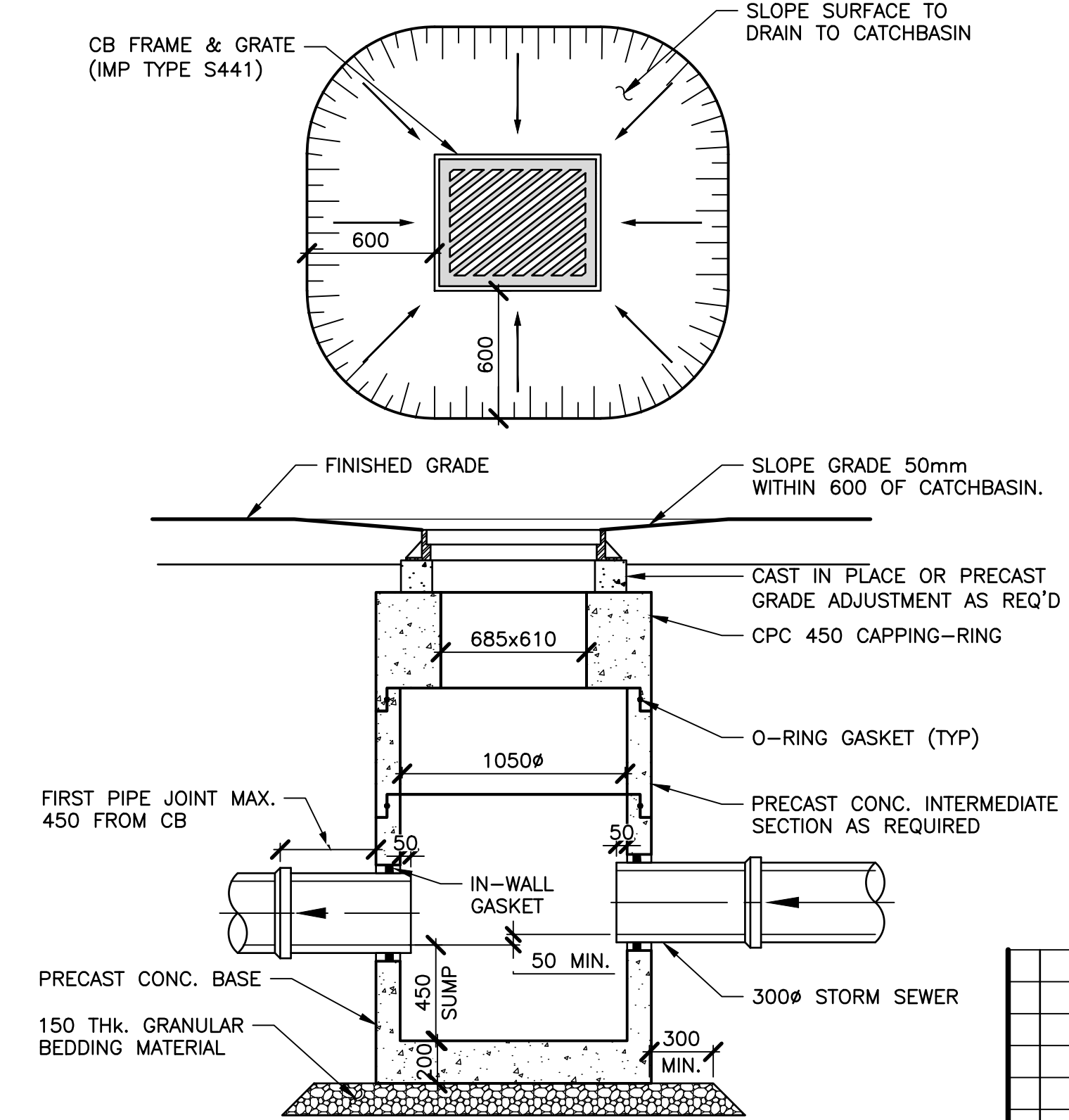
MINIMUM DISTANCE FROM FITTING TO UNDISTURBED GROUND		
PIPE Ø mm	mm	mm
100	450	450
150	450	450
200	450	450
250	600	600
300	750	750

VERTICAL THRUST BLOCKS THRUST COMPENSATED FOR BY MASS OF CONCRETE (m³)					
PIPE Ø mm	45° BEND	22.5° BEND	1.25° BEND	20° BEND	20° BEND
100	0.40	0.20	0.20	0.20	0.20
150	0.80	0.40	0.40	0.40	0.40
200	1.40	0.70	0.70	0.70	0.70
250	2.10	1.10	1.10	1.10	1.10
300	3.00	1.50	1.50	1.50	1.50

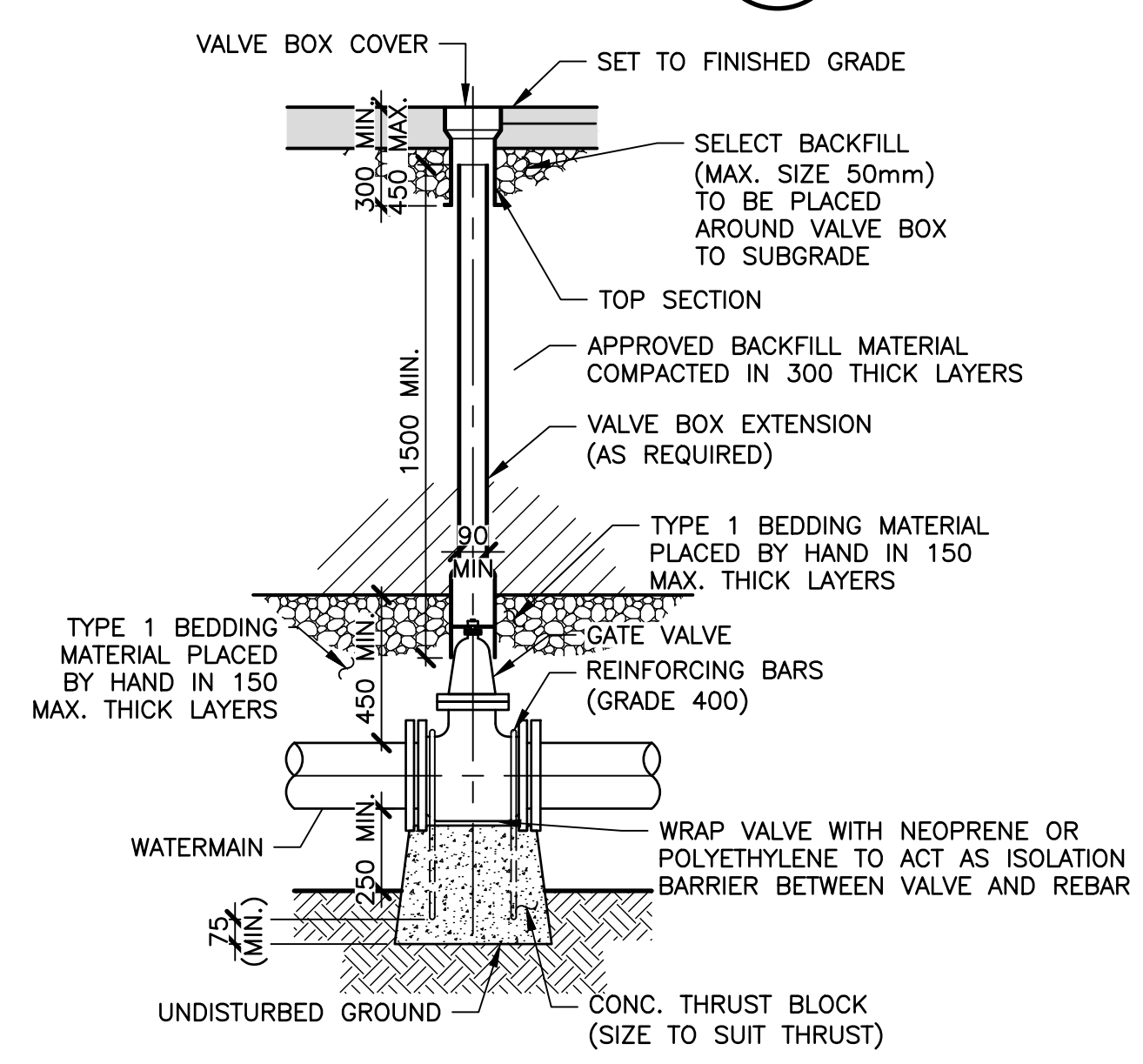
2 DETAIL - CONCRETE THRUST BLOCKS
NTS



5 DETAIL - 1050 PRECAST MANHOLE
1:25



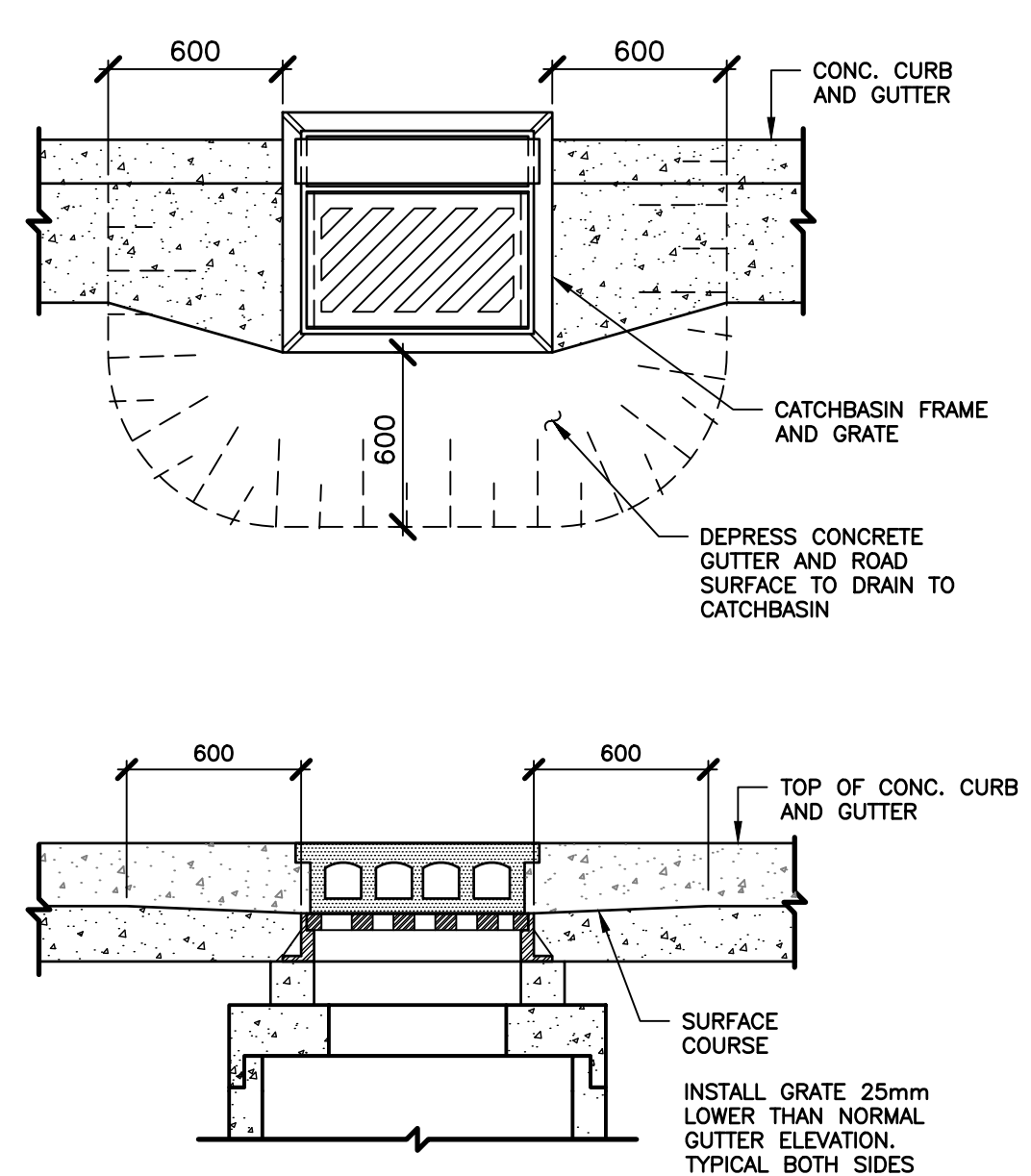
6 DETAIL - CATCHBASIN
1:25



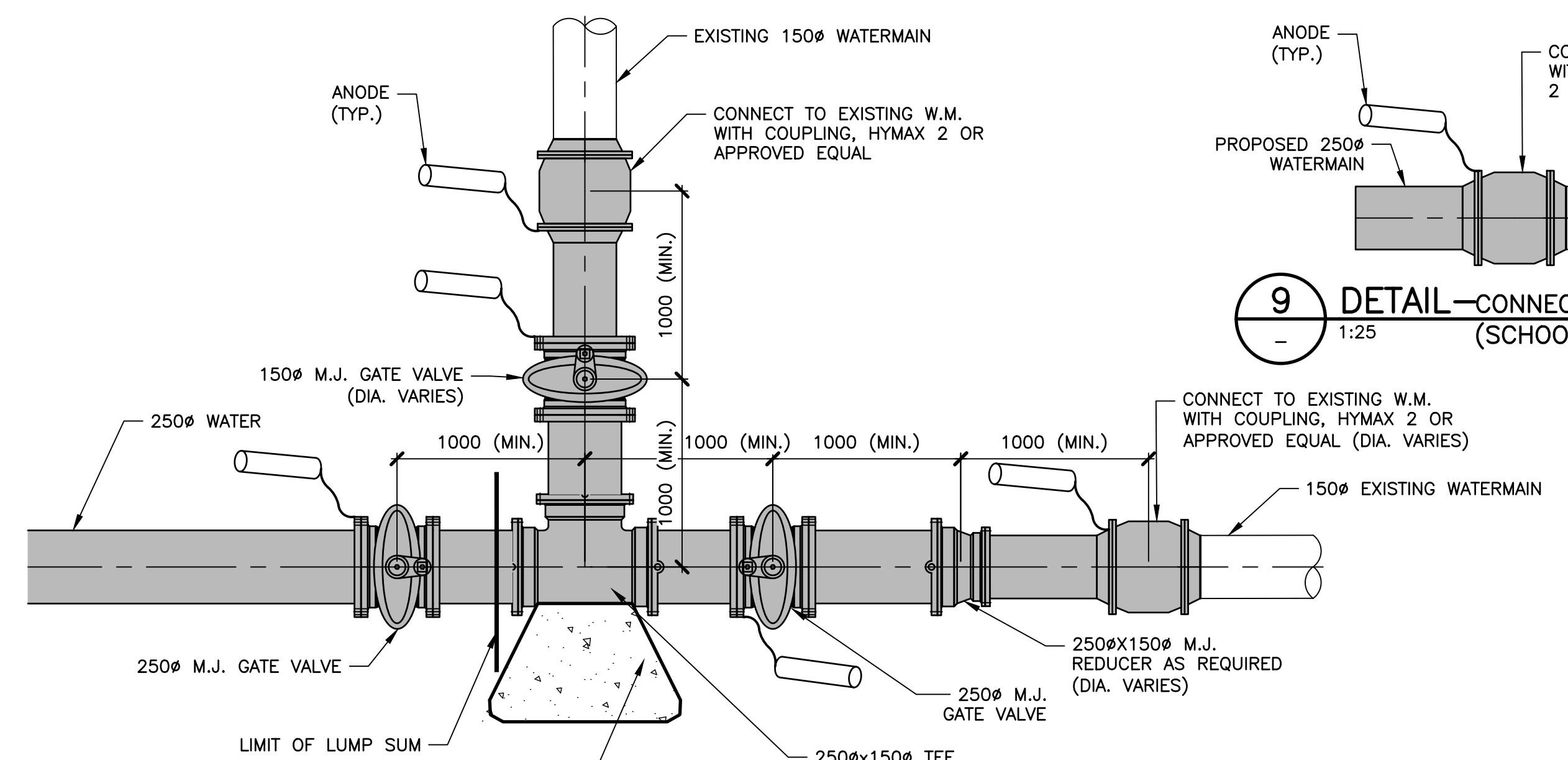
NOTED:
1. THRUST ANCHOR ONLY REQUIRED FOR POLYETHYLENE AND PVC PIPE GREATER THAN 150Ø.
2. INSTALL A ZINC ANODE AT EACH VALVE (SEE DETAIL)

NOTES:
1. ANODE TO BE ZINC 24-48 TYPE.
2. ANODE CONNECTION TO GATE VALVE BY DOUBLE NUTTING ON ACCESSIBLE STUD

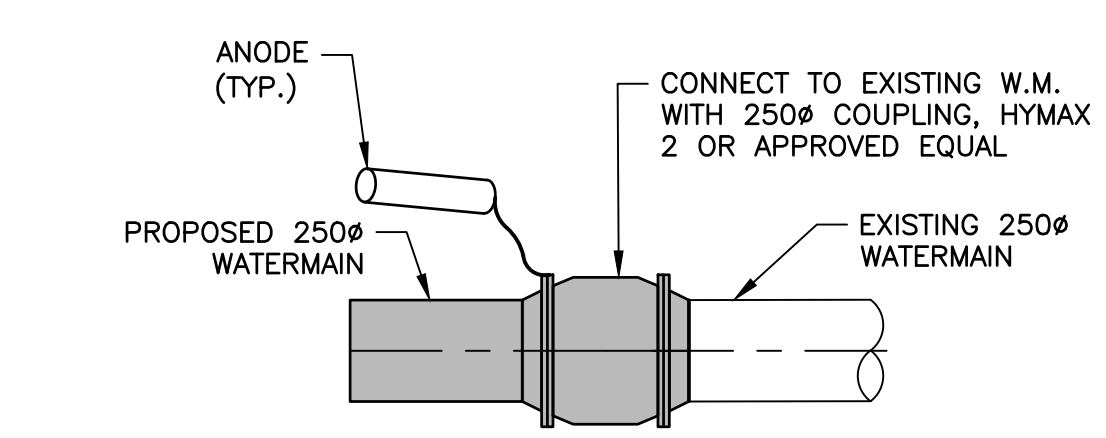
4 DETAIL - GATE VALVE AND BOX
1:20



7 DETAIL - CURB & GUTTER CATCHBASIN
1:25

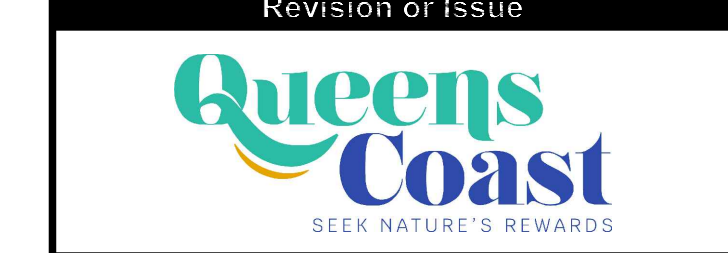


8 DETAIL - CONNECTION TO EXISTING WATERMAIN (COLLEGE STREET EXTENSION)
1:25



9 DETAIL - CONNECTION TO EXISTING WATERMAIN (SCHOOL STREET)
1:25

No.	Description	Date	By

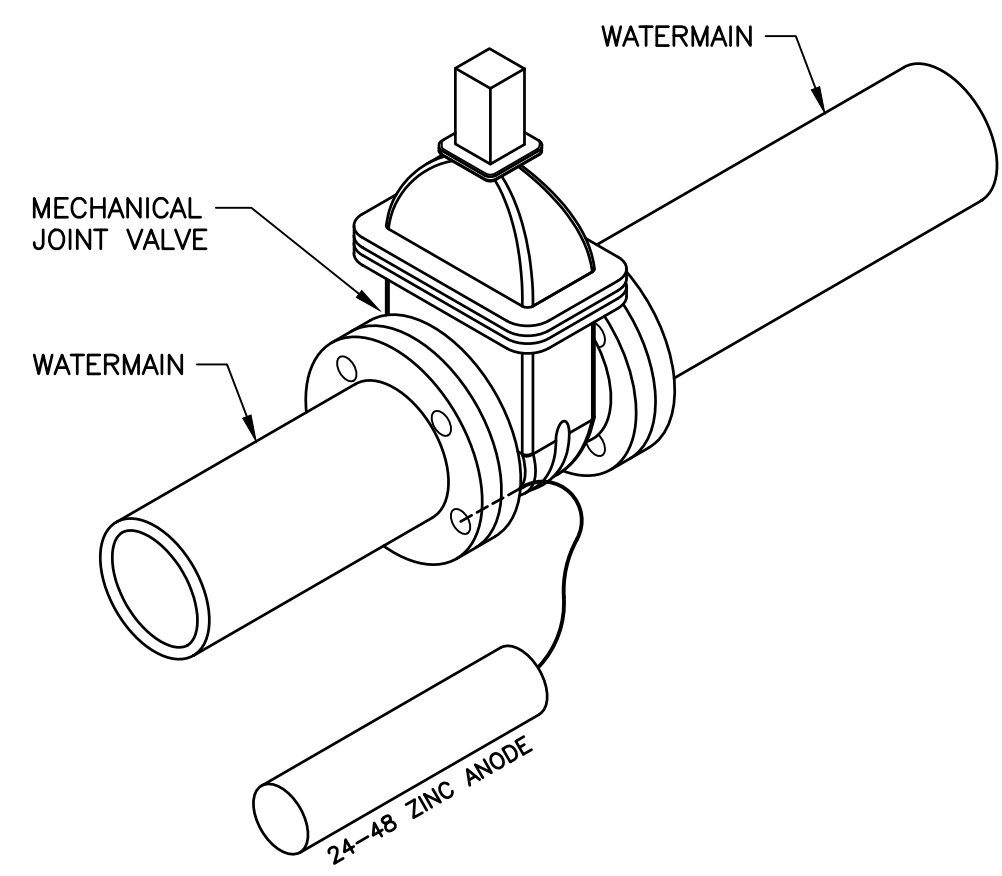


MUNICIPALITY OF QUEENS
MOUNT PLEASANT WATER AND SANITARY SERVICING EXTENSION

CIVIL
SERVICING DETAILS 1

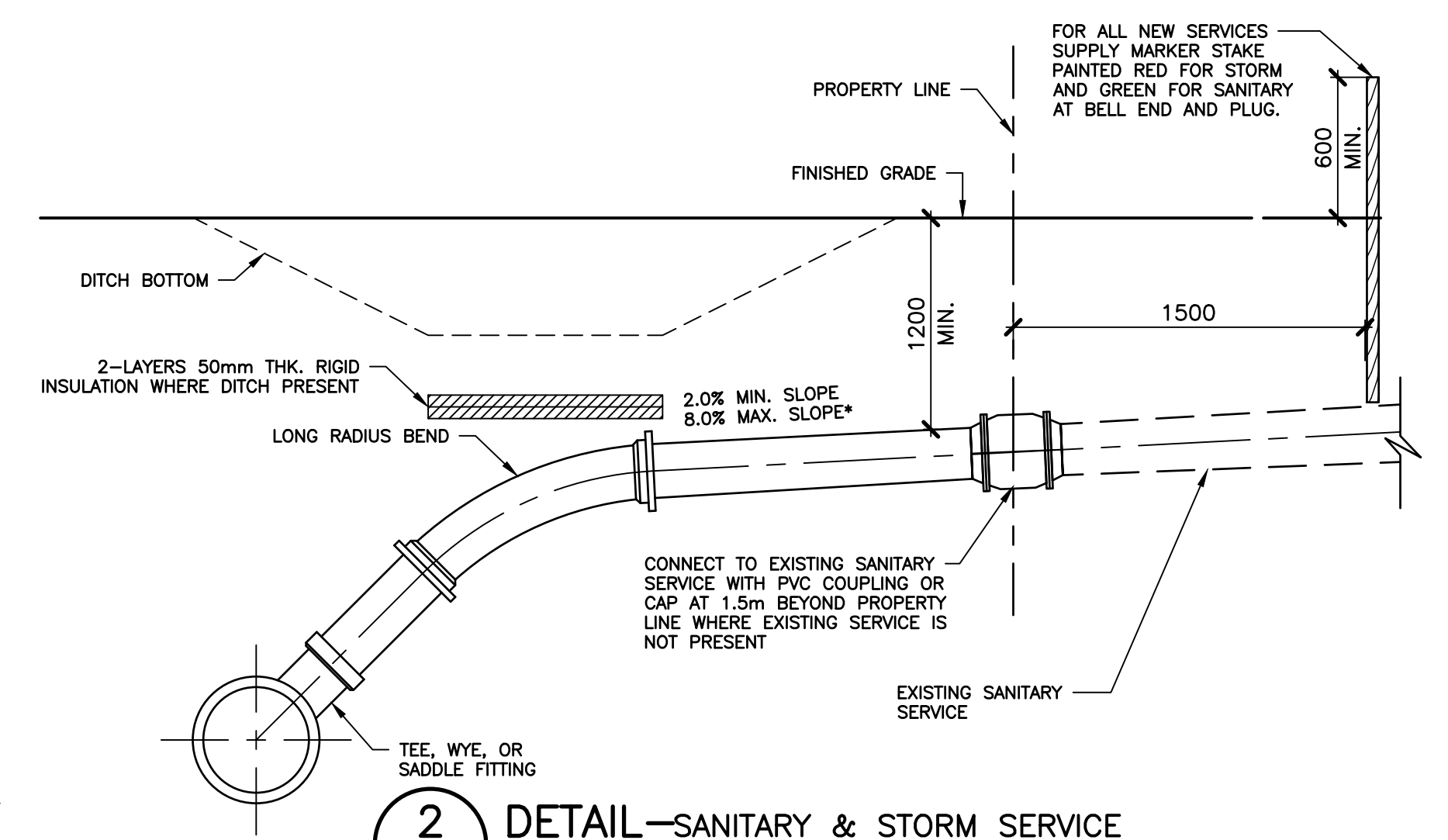
CBCL

CBCL No. 241008.00	Contract No. AS NOTED
Date FEB 2025	Scale DS/RWM
Designed RWM	Drawn DS/RWM
Checked SC	Approved RWM
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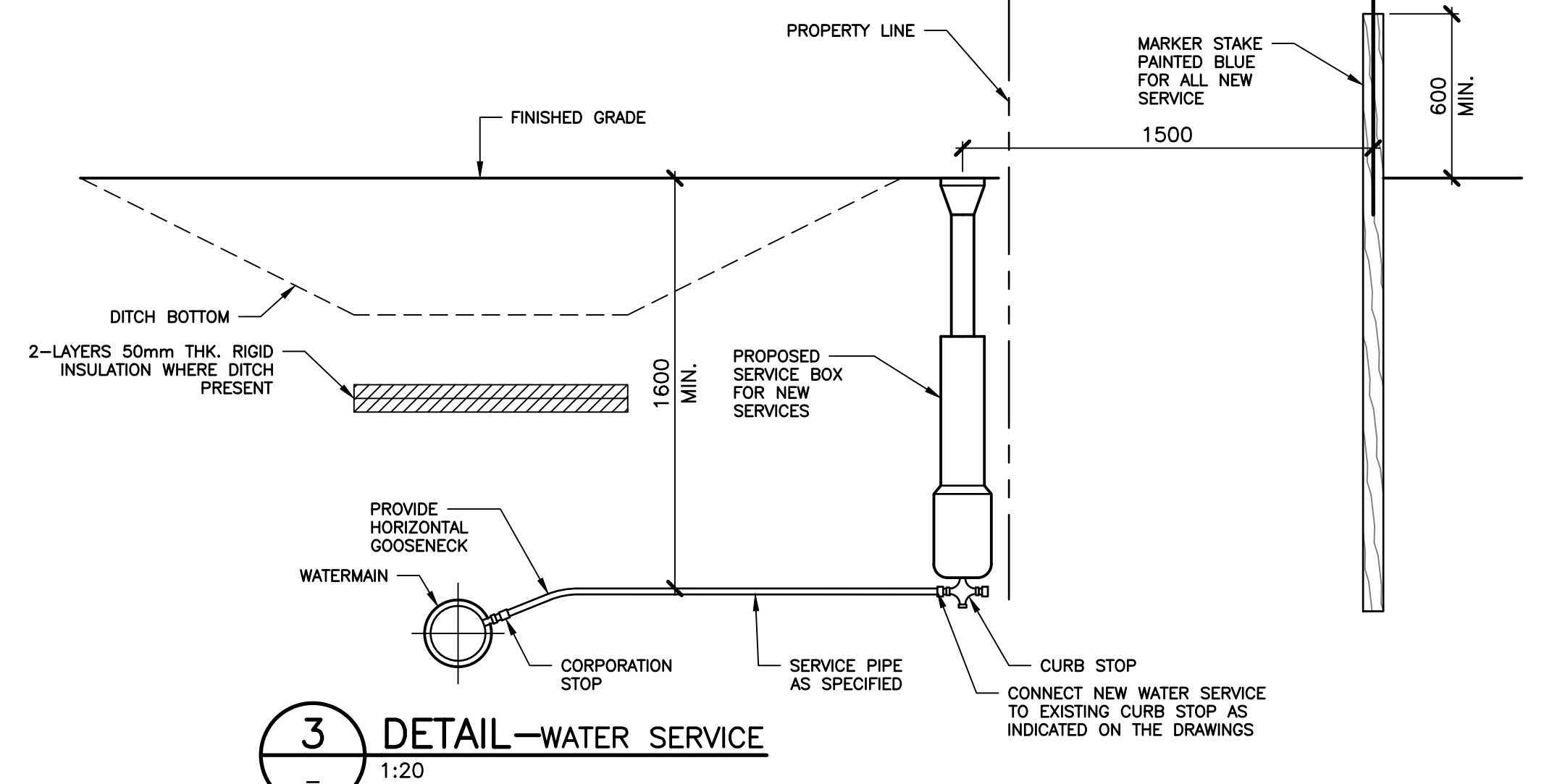


- NOTES:**
1. SEPARATE ANODE AND VALVE / SERVICE USING 50mm THICK RIGID INSULATION IF ANODE IS INSTALLED WITHIN 600mm OF VALVE / SERVICE.
 2. WRAP ANODE WIRE A MINIMUM OF THREE (3) TIMES AROUND A BOLT AND WRAP WITH NEOPRENE TAPE WHEN ANODES ARE ATTACHED TO MECHANICAL JOINT VALVES. SECURE WIRE TO BOLT BY USING A SECOND NUT.
 3. IF ANODE WIRE CANNOT BE ATTACHED AS INDICATED, ANODE WIRE MUST BE ATTACHED TO VALVE WITH SLU-70 WIRE CONNECTOR OR CADWELD. APPLY BITUMINOUS COATING TO SLU-70 WIRE CONNECTOR OR CADWELD.

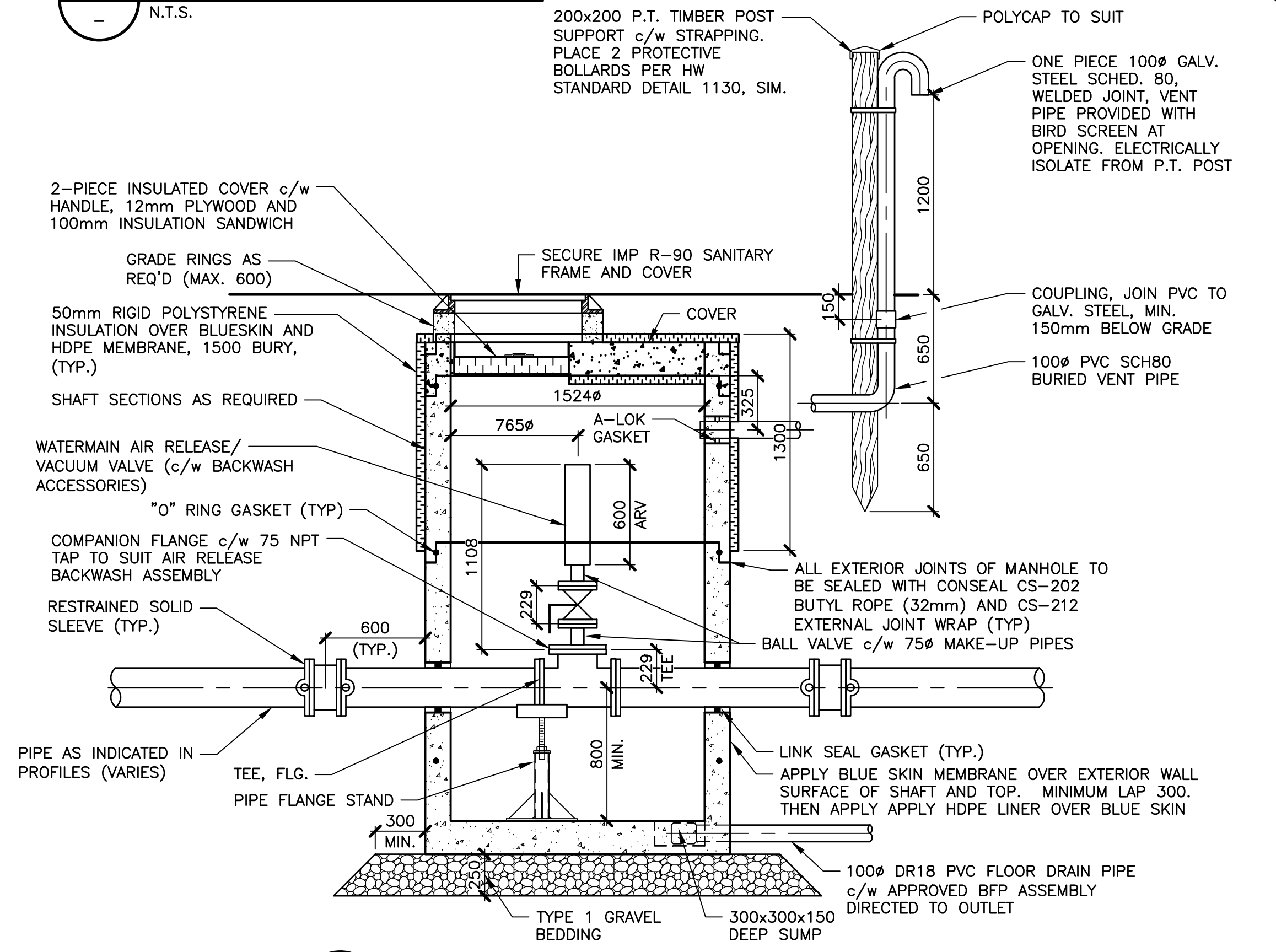
1 **DETAIL—WATERMAIN ZINC ANODE**
N.T.S.



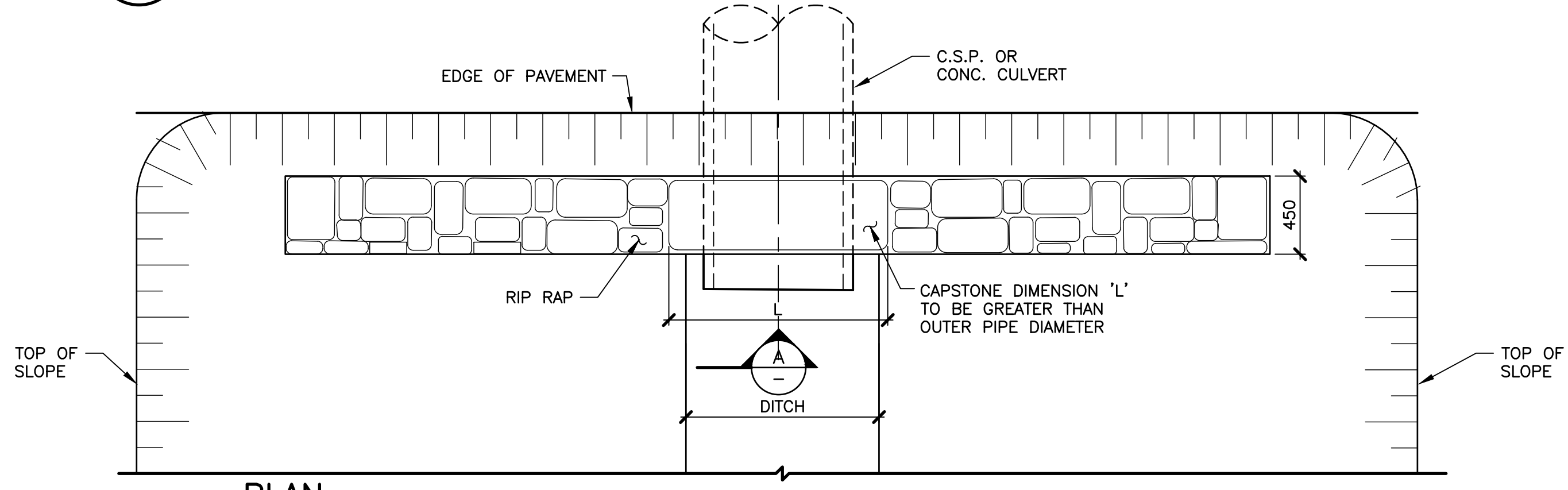
2 **DETAIL—SANITARY & STORM SERVICE**
1:25



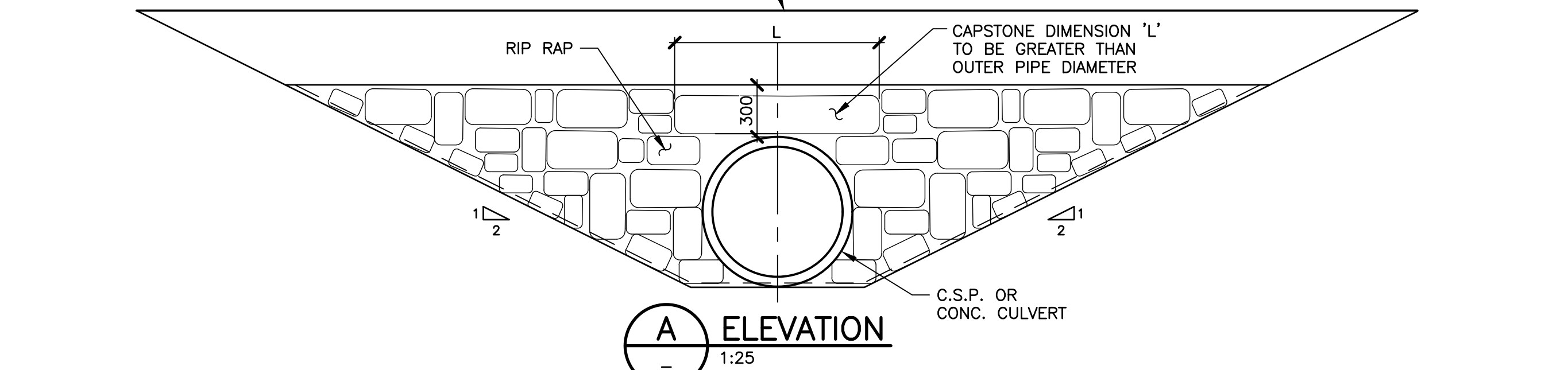
3 **DETAIL—WATER SERVICE**
1:20



4 **DETAIL—AIR RELEASE VALVE CHAMBER**
1:25

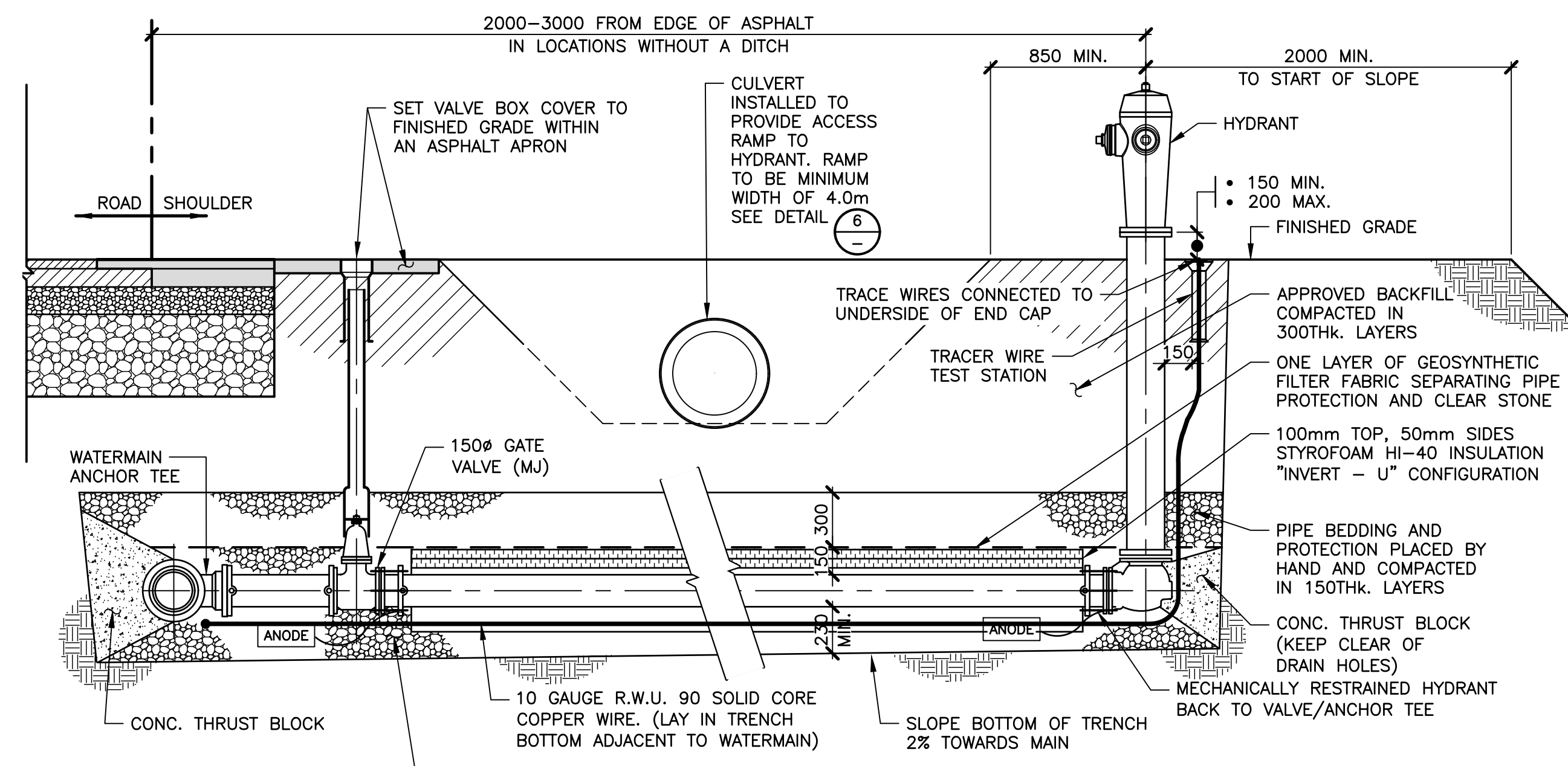


PLAN
1:25



A **ELEVATION**
1:25

6 **DETAIL—RIP-RAP HEADWALL**
1:25



5 **DETAIL—HYDRANT INSTALLATION (RURAL STREET)**
1:25

- NOTES:**
1. ANODE TO BE ZINC 24-48 TYPE INSTALLED BY USE OF DOUBLE NUT.
 2. SEE STANDARD SPEC FOR THRUST BLOCK DETAILS
 3. BOTH ENDS OF CULVERT REQUIRE HAND PLACED RIP RAP HEADWALL ACCORDANCE WITH NSDPW STANDARD SPECIFICATION.
 4. CULVERT PIPE MATERIAL TO BE IN ACCORDANCE WITH STANDARD SPECIFICATION.
 5. CULVERT TO BE SIZED IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.
 6. ALL SURFACES WITHIN 2.00m OF HYDRANT MUST BE STABILIZED WITH USING GRASS, CLEAR STONE, ARMOUR STONE, OR ASPHALT.
 7. FINISHED GRADE AT HYDRANT MUST BE AT SAME ELEVATION AS THE ROAD SHOULDER ±500mm OR AS APPROVED BY THE ENGINEER.
 8. USE ONLY APPROVED PRODUCTS FOR MECHANICAL RESTRAINT.

- TRACER WIRE NOTES:**
1. TRACER WIRE TO BE SET IN 300m LENGTHS
 2. SPLICE ONLY WHERE NECESSARY TO JOIN TWO SPOOLS OF WIRE OR WHERE MULTIPLE RUNS MEET AT AN INTERSECTION.
 3. TRACE WIRE SYSTEM TO BE TESTED TO ENSURE CONTINUITY.
 4. SEE SPECIFICATION FOR PRODUCT INFORMATION.

No.	Description	Date	By
0	ISSUED FOR TENDER	JUL 03/25	RWM

Revision or Issue



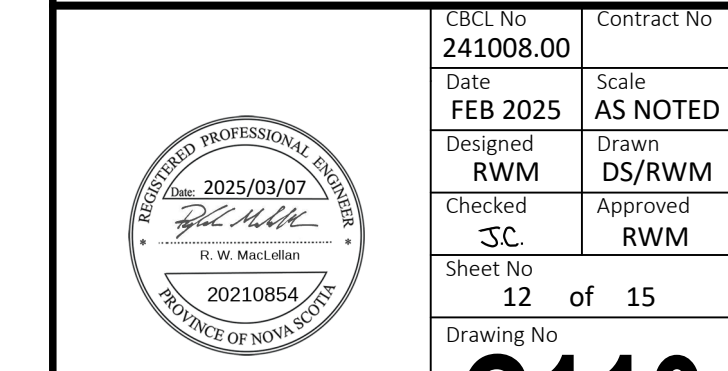
MUNICIPALITY OF QUEENS
MOUNT PLEASANT WATER AND SANITARY SERVICING EXTENSION

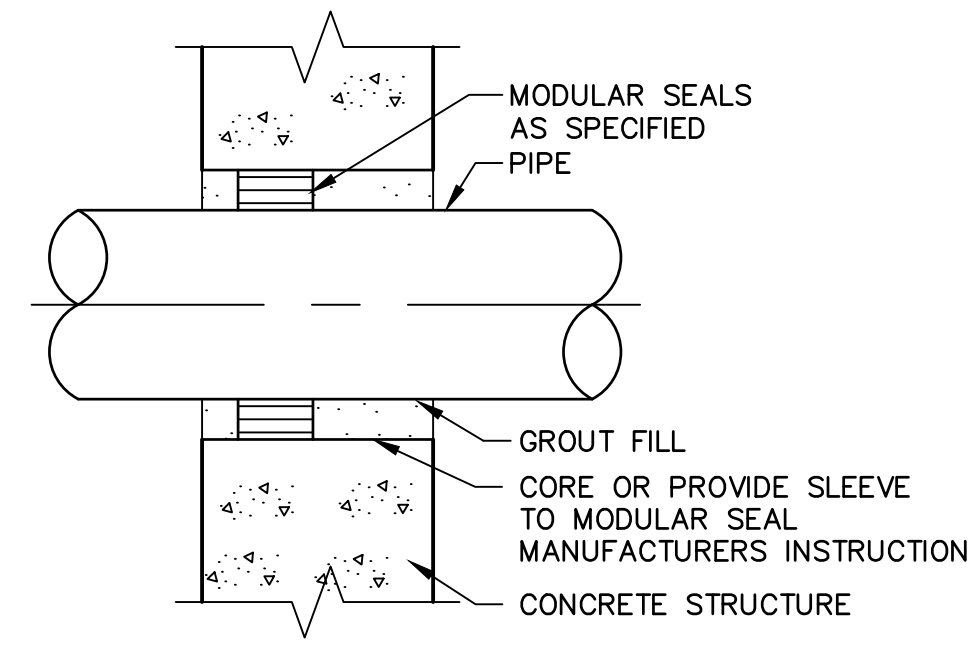
CIVIL

SERVICING DETAILS 2

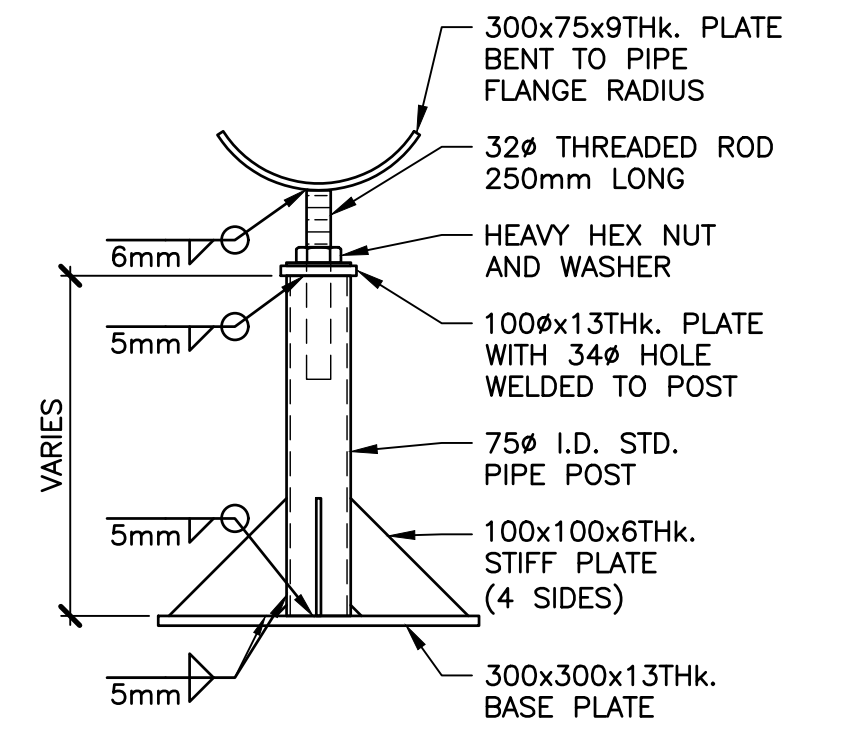


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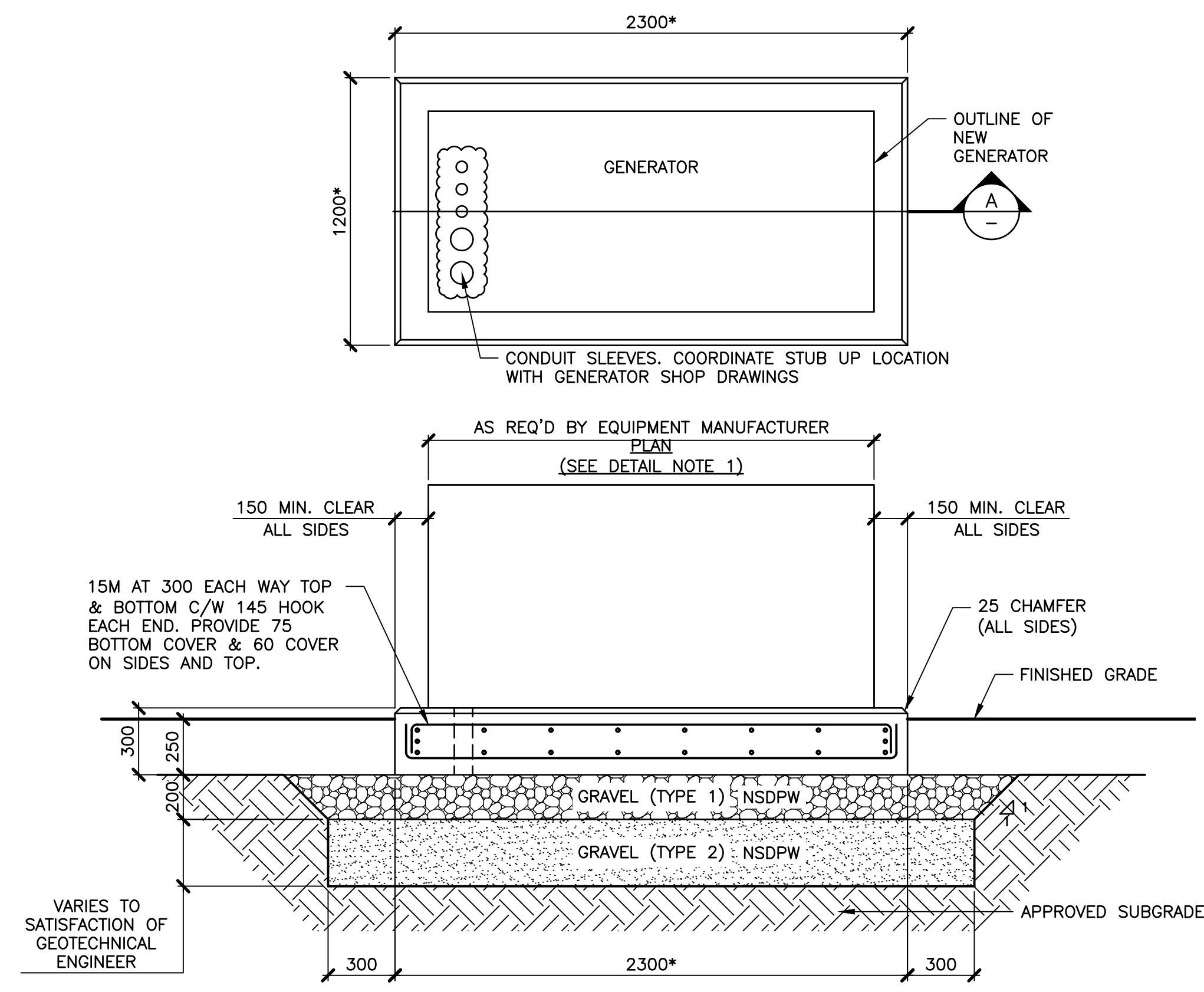




1 DETAIL—MODULAR SEAL THROUGH CONCRETE WALL
1:10



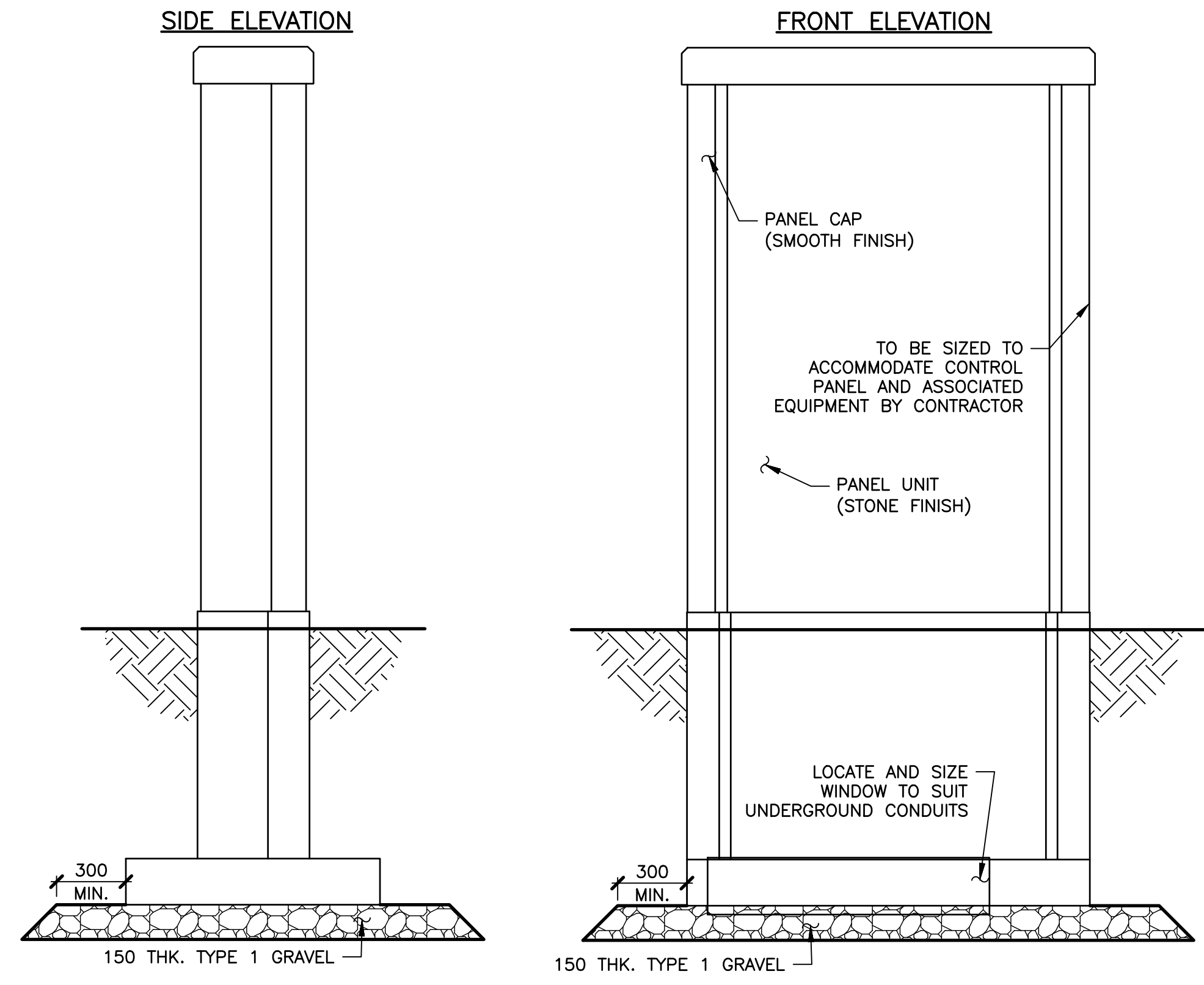
4 DETAIL—ADJUSTABLE PIPE SUPPORT
1:10



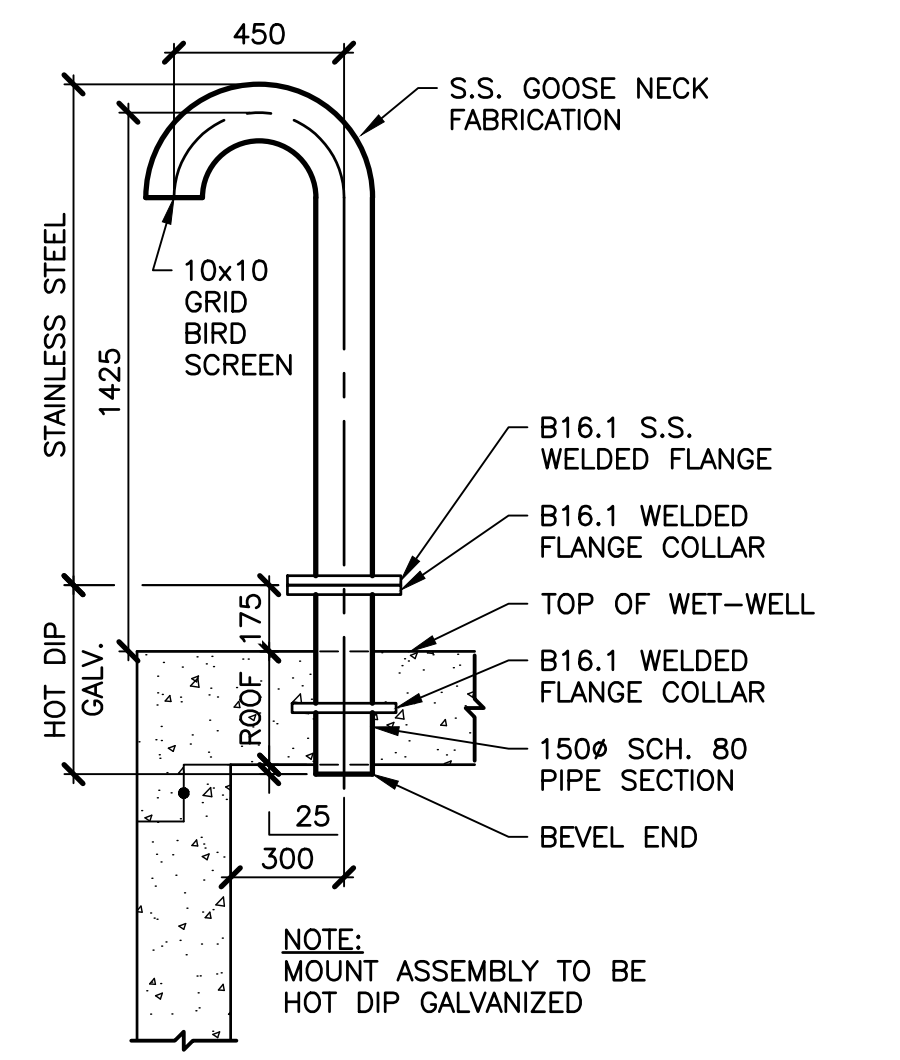
2 DETAIL—GENERATOR CONCRETE PAD
1:20

DETAIL NOTES:

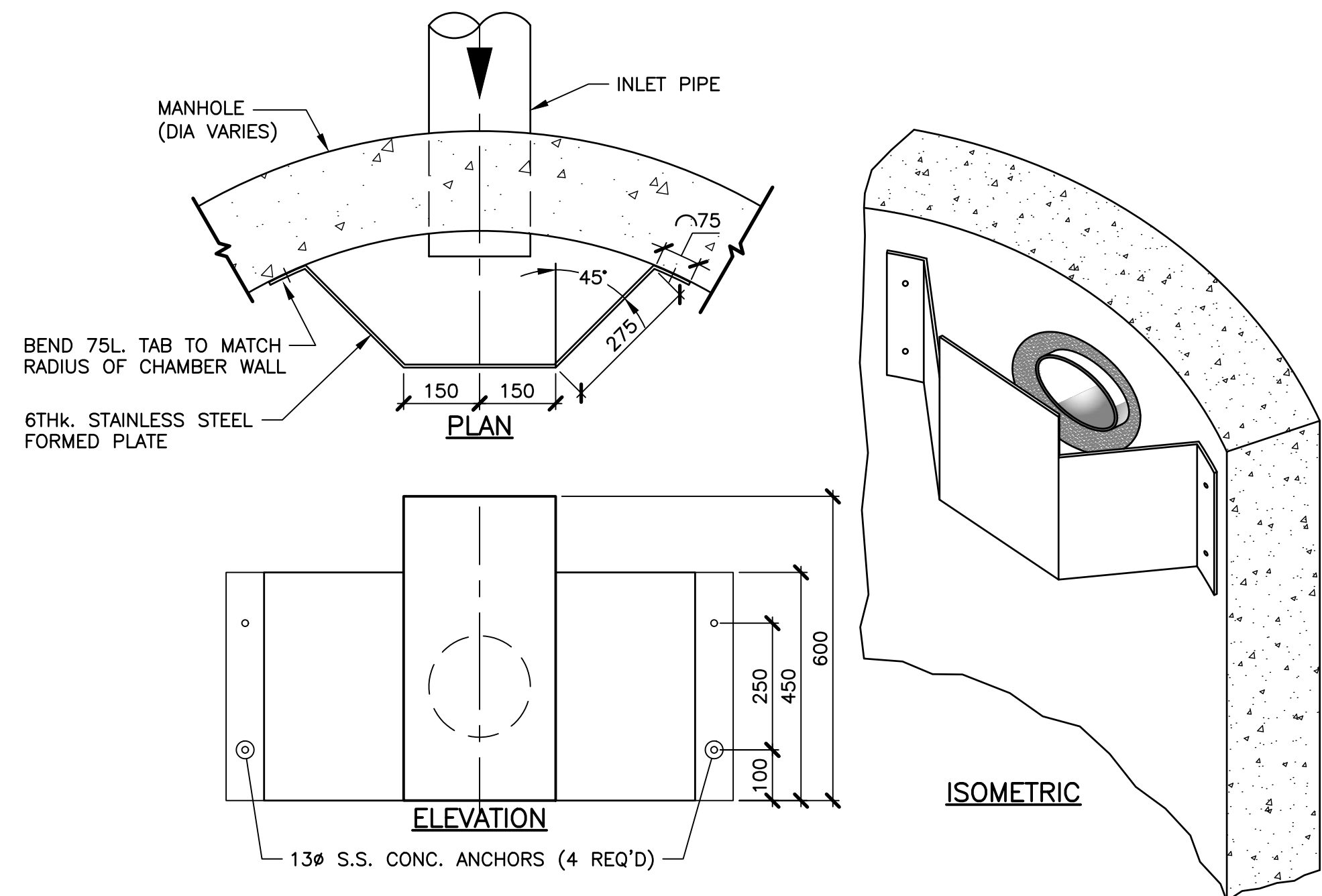
- a. DIMENSIONS MARKED WITH * NEED TO BE VERIFIED WITH REVIEWED EQUIPMENT SHOP DRAWINGS PRIOR TO FABRICATION.
- b. CONFIRM ALL DIMENSIONS, CONDUIT STUB-UP LOCATION, & ANCHOR BOLT LOCATIONS WITH GENERATOR SUPPLIER PRIOR TO POURING CONCRETE.
- c. ALL CONCRETE, CONCRETE MATERIALS, FORMS, WORKING PROCEDURES & THE LIKE TO CONFORM TO CSA A23.1-19 AND A23.2-19. CONCRETE TO BE READY-MIX IN ACCORDANCE WITH THE MIX DESIGN AS APPROVED BY THE CONCRETE MIX DESIGN ENGINEER.
- d. MINIMUM COMPRESSIVE STRENGTH OF EQUIPMENT PAD CONCRETE AT 28 DAYS TO BE 35MPa. EXPOSURE CLASS TO BE C-1 WITH A NOMINAL SIZE OF COARSE AGGREGATE OF 20mm. ALL CONCRETE TO CONTAIN AIR CONTENT FOR CATEGORY 1 AS PER TABLE 4 IN CSA A23.1-19. SLUMP TO BE AS PER THE CONTRACTOR AND CONCRETE FINISH REQUIREMENTS AND AS PER CSA TABLE 21, CLASS C. ALL CONCRETE ADDITIVES TO IMPROVE AIR ENTRAINMENT AND FLOWABILITY DURING PLACEMENT MUST NOT COMPROMISE STRENGTH REQUIREMENTS AND TO BE PART OF A CONCRETE MIX DESIGN APPROVED AND TESTED BY A PROFESSIONAL ENGINEER REGISTERED OR LICENSED TO PRACTICE IN THE PROVINCE OF NOVA SCOTIA. SUBMIT DESIGN TO THE OWNER'S REPRESENTATIVE FOR REVIEW.
- e. ALL REINFORCING STEEL IS IN METRIC DESIGNATION AND TO BE DEFORMED HARD GRADE BILLET STEEL, WITH A MINIMUM YIELD POINT STRENGTH OF 400MPa AND TO CONFORM TO CSA G30.18:21.
- f. UNLESS NOTED OTHERWISE, AT ALL SLICE LOCATIONS, REINFORCING STEEL TO BE PROVIDED WITH A CLASS 'B' TENSION LAP, OR WHEN BARS OF DIFFERENT SIZES (35M OR SMALLER) ARE LAP SPLICED IN TENSION, THE SPLICE LENGTH SHALL BE THE LARGER OF THE DEVELOPMENT LENGTH OF THE SMALLER BAR OF THE SPLICE LENGTH OF THE LARGER BAR, AS PER CSA A23.3:19.
- g. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
- h. ALL CONCRETE TO BE MONOLITHIC AND LEVEL.
- i. IF WINDOW IS PROVIDED IN LIEU OF CONDUITS SLEEVES, PROVIDE REQUIRED REINFORCEMENT.



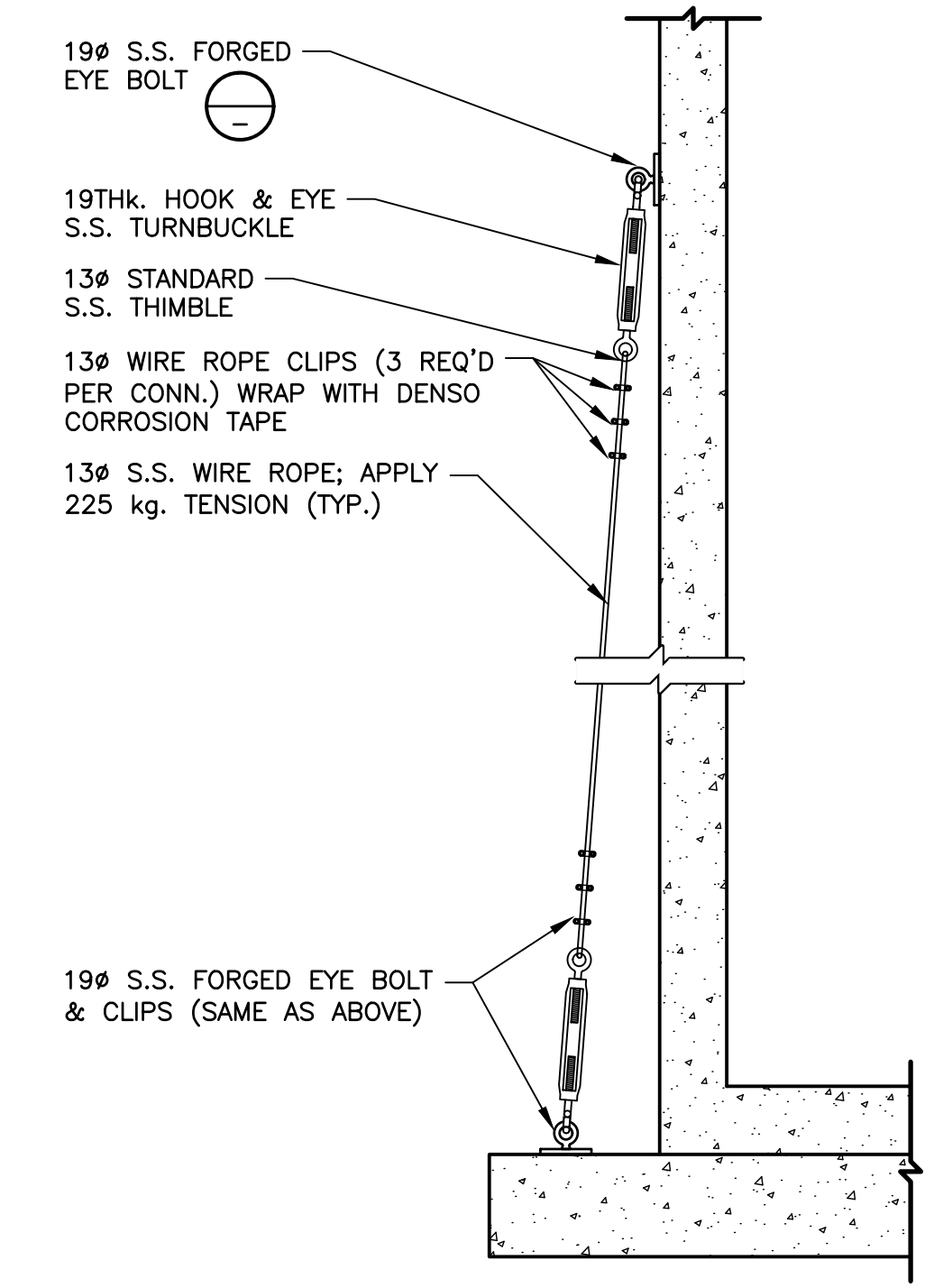
3 DETAIL—SHAW EQUIPMENT MOUNTING STRUCTURE
NTS



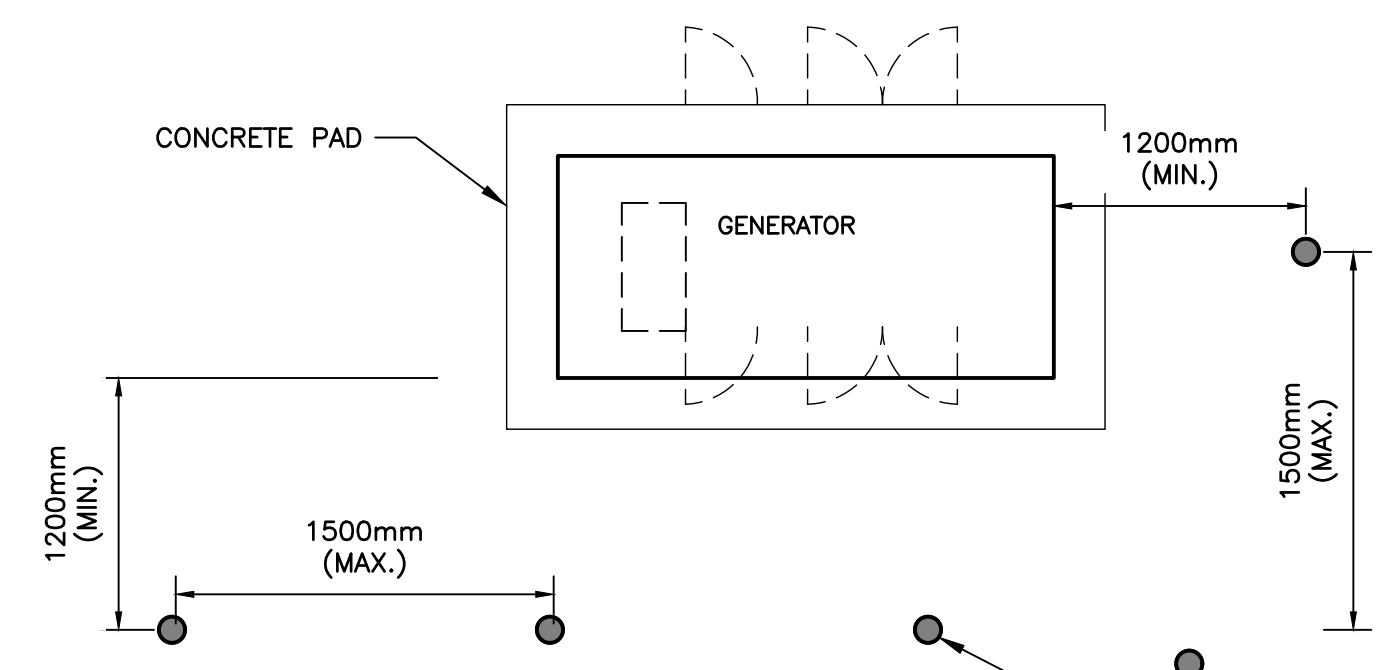
5 DETAIL—WET WELL GOOSE NECK VENT
1:20



6 DETAIL—INLET BAFFLE
1:10



8 DETAIL—TIE-DOWN ARRANGEMENT
1:20



7 DETAIL—TYPICAL GENERATOR BOLLARD SPACING
1:20

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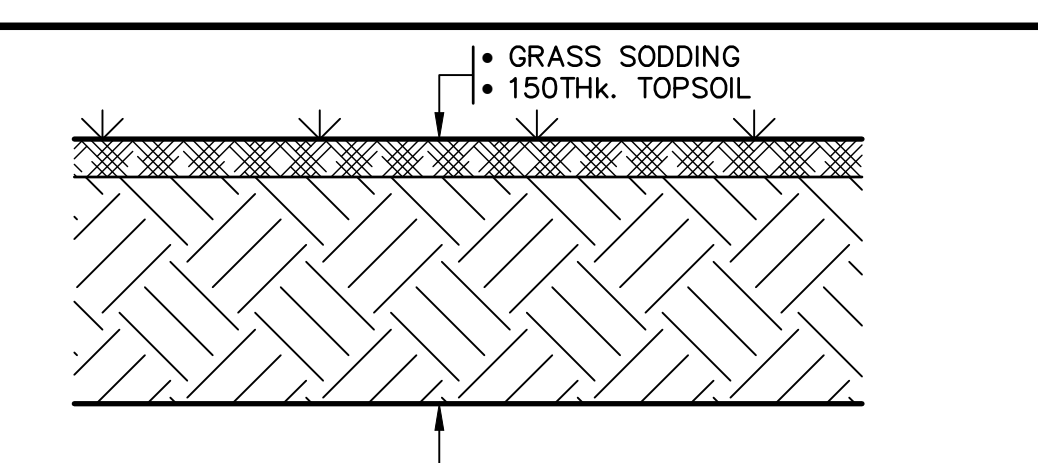


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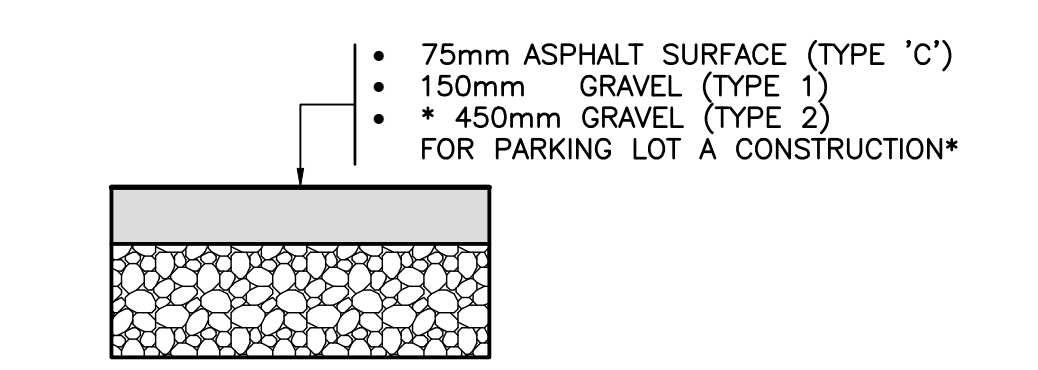
CIVIL
PUMP STATION DETAILS



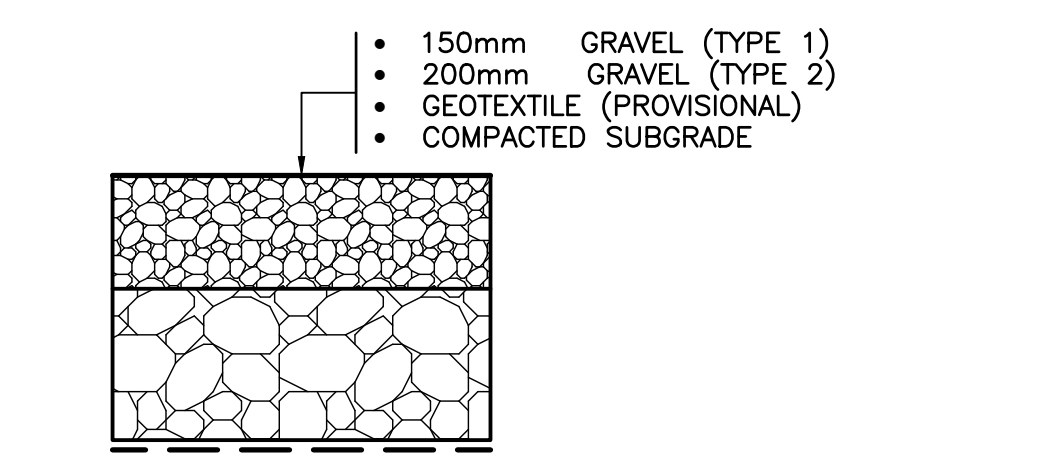
CSCL No. 241008.00	Contract No.
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Checked SC	Approved RWM
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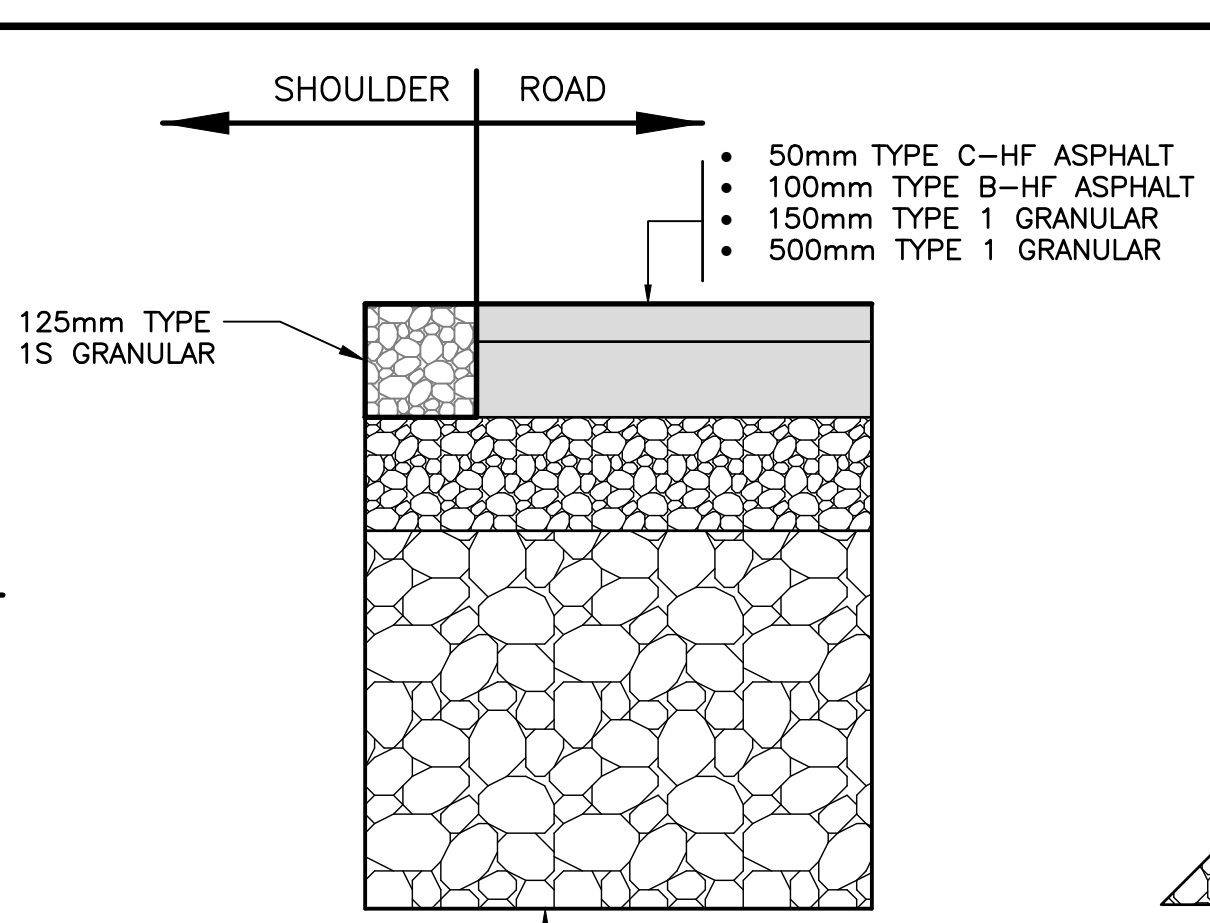
1 DETAIL—GRASSED AREA REINSTATEMENT
1:5



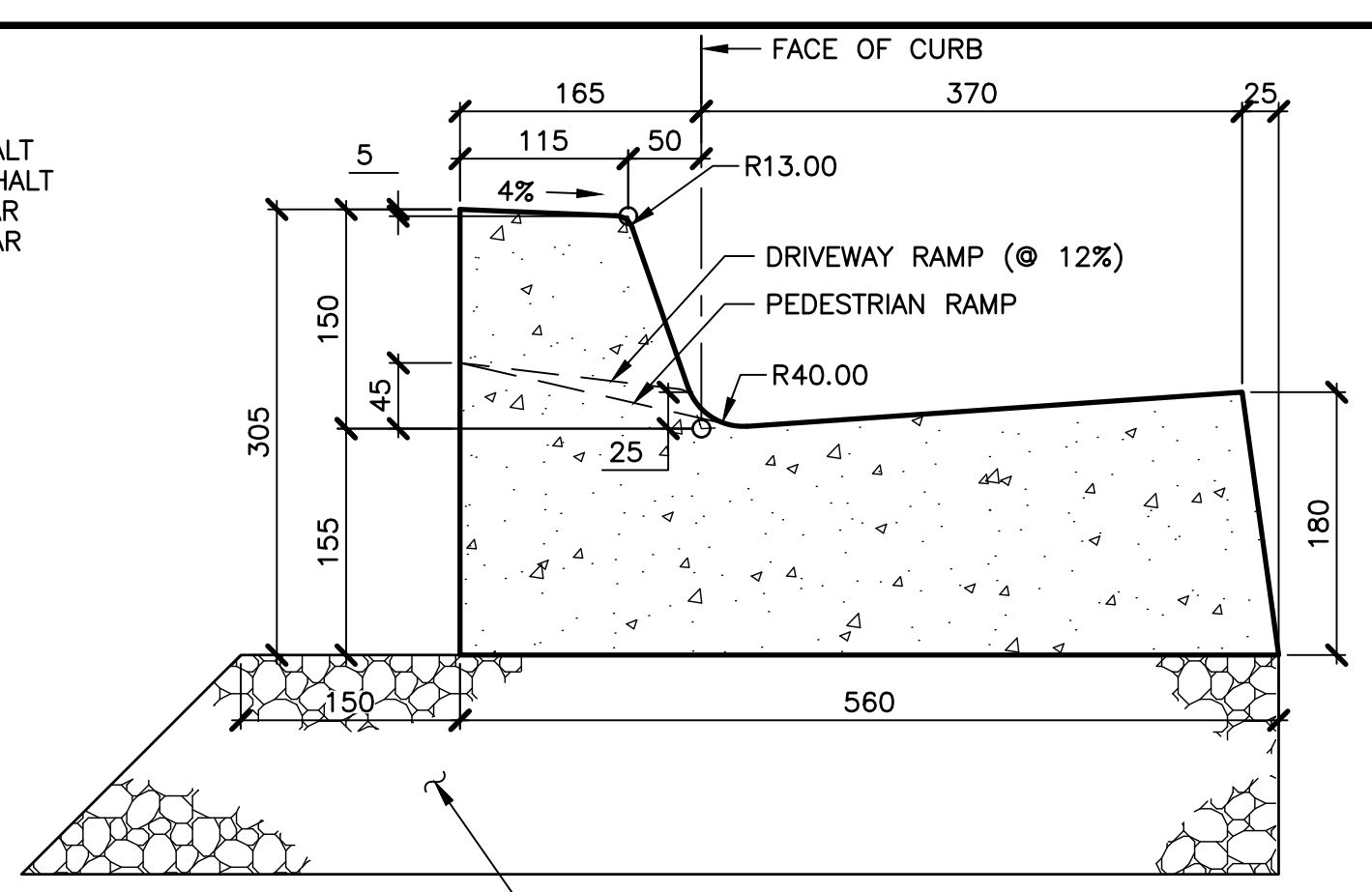
2 DETAIL—ASPHALT DRIVEWAY REINSTATEMENT
1:10



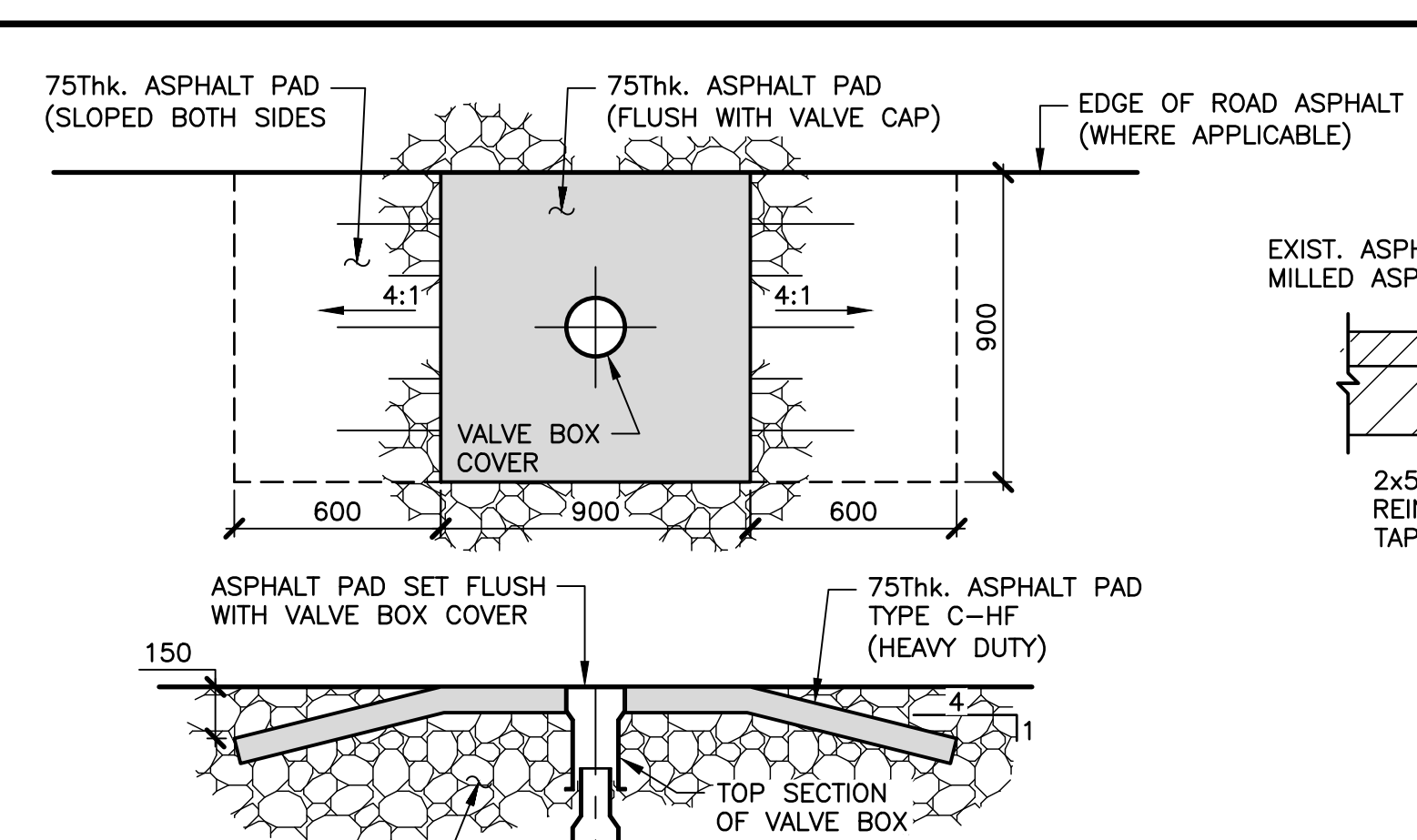
3 DETAIL—GRAVEL DRIVEWAY / LIFT STATION SERVICE ROAD REINSTATEMENT
1:10



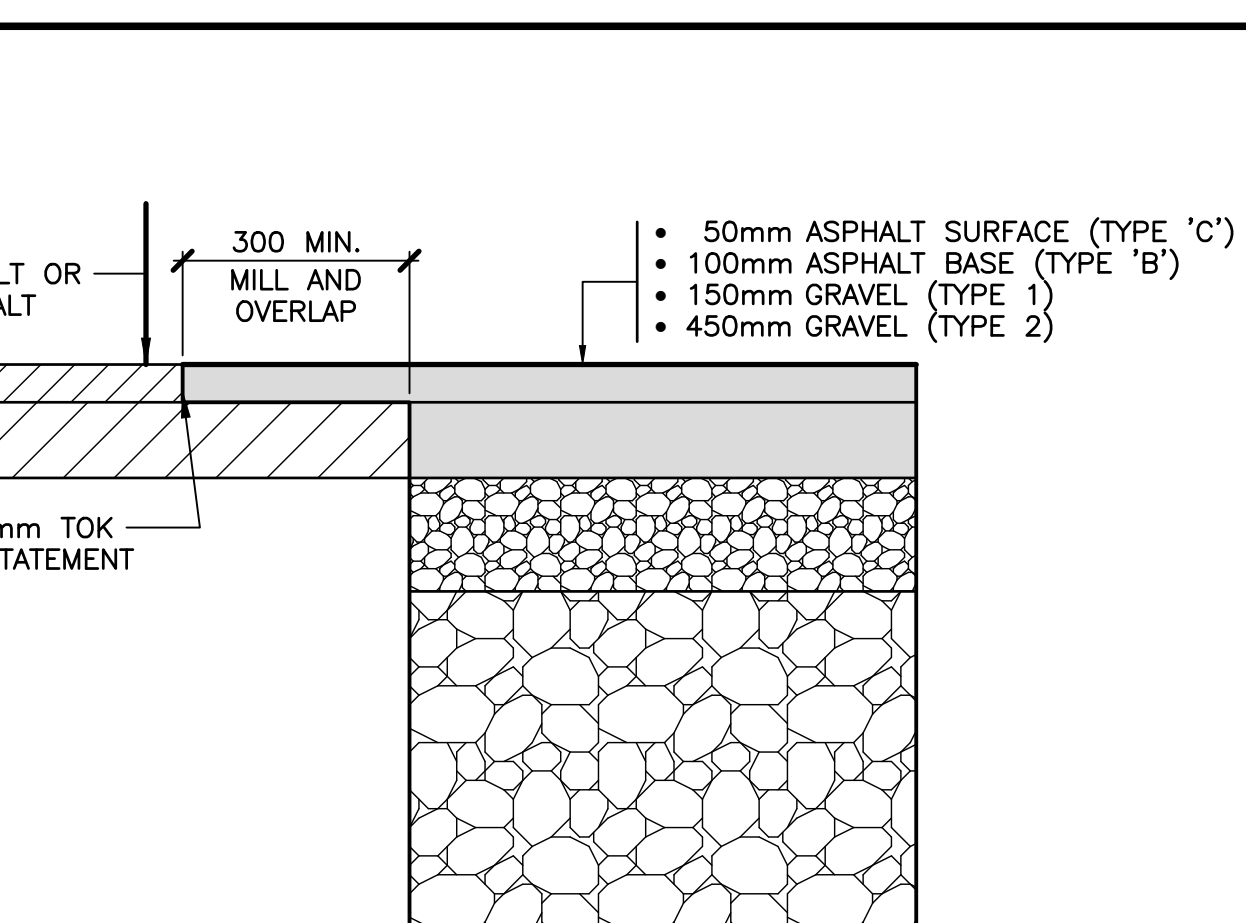
4 DETAIL—STREET ASPHALT REINSTATEMENT
1:10



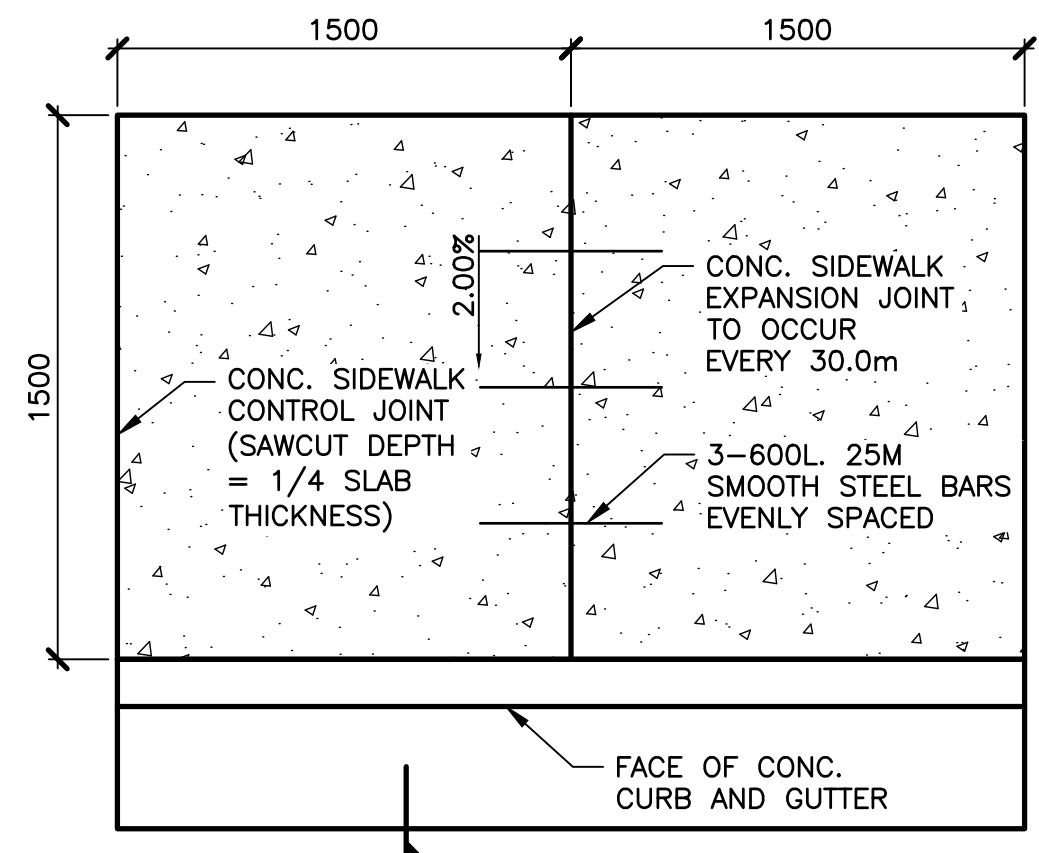
5 DETAIL—CONCRETE CURB AND GUTTER
1:5



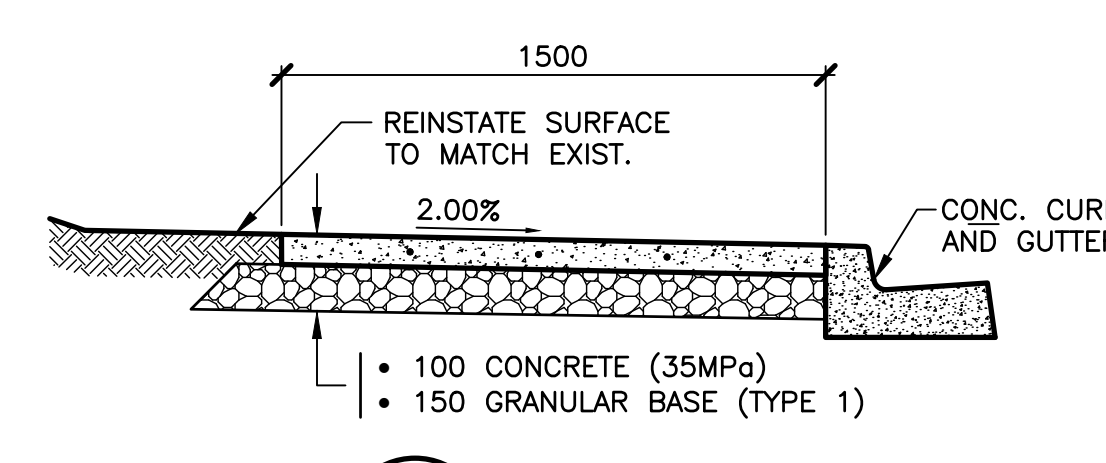
5A DETAIL—VALVE BOX APRON
1:20



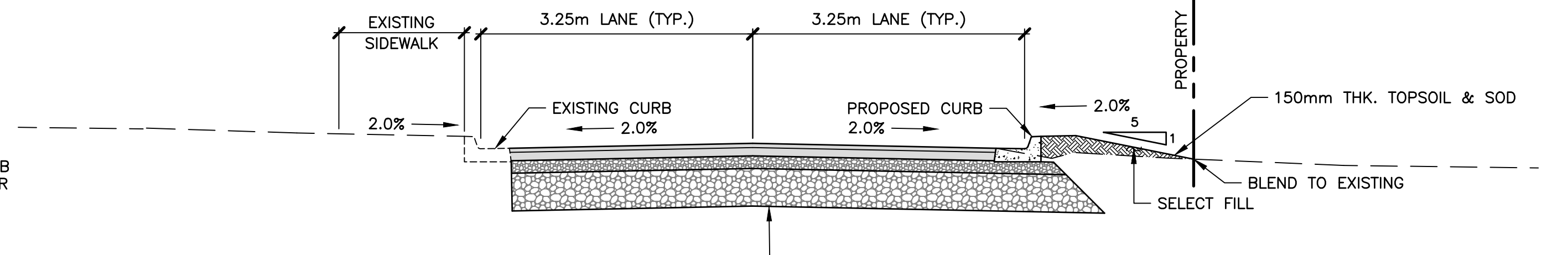
6A DETAIL—STREET ASPHALT REINSTATEMENT
1:10



PLAN

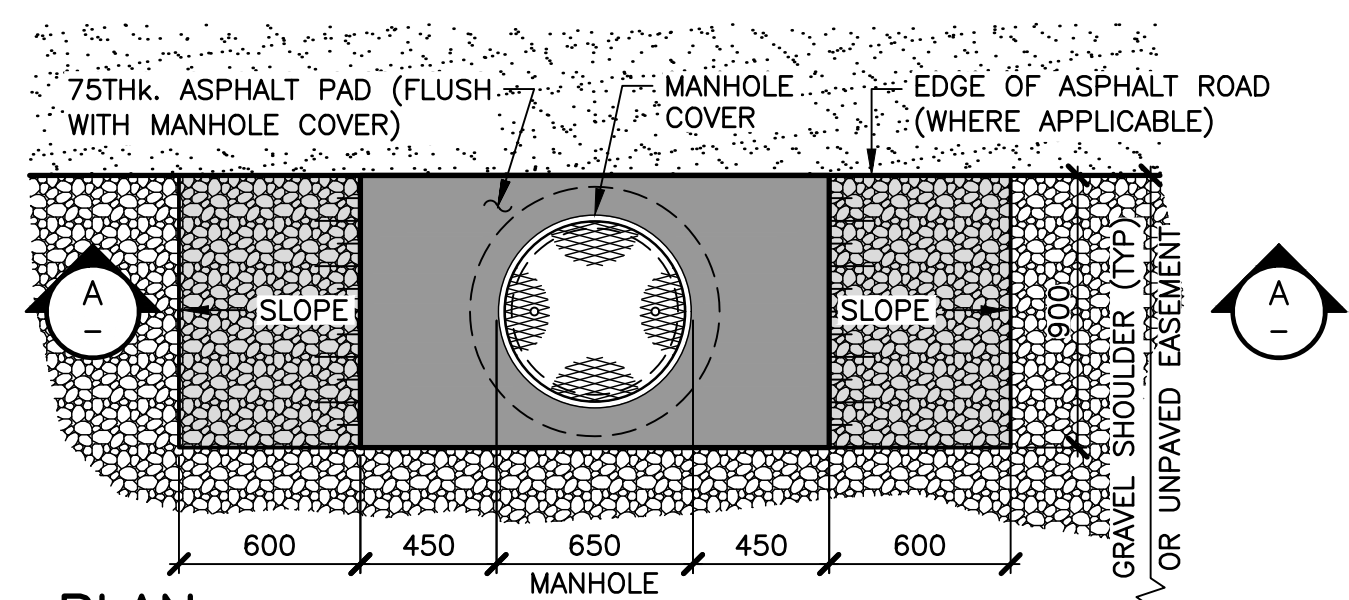


A SECTION
1:25

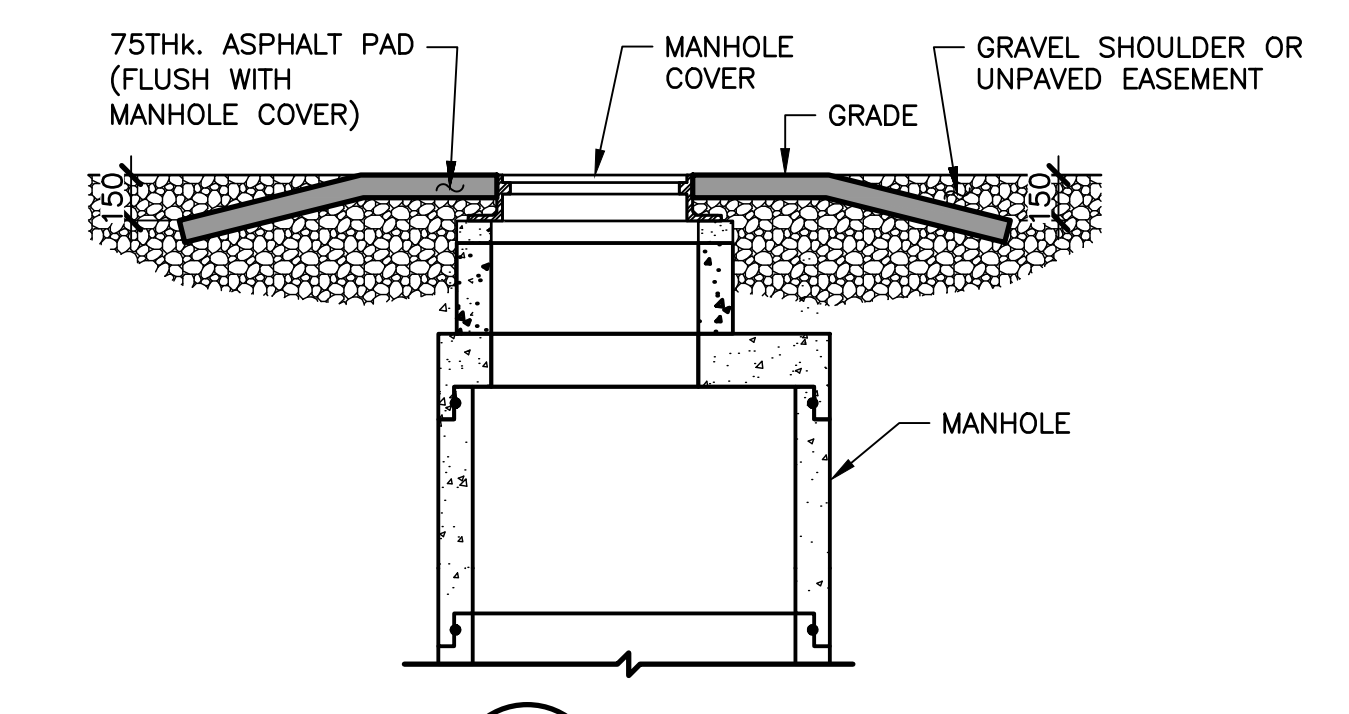


7 DETAIL—SCHOOL STREET STATION 0+017 - 0+297 FULL WIDTH ROAD RECONSTRUCTION
1:50

6 DETAIL—CONCRETE SIDEWALK REINSTATEMENT
1:25

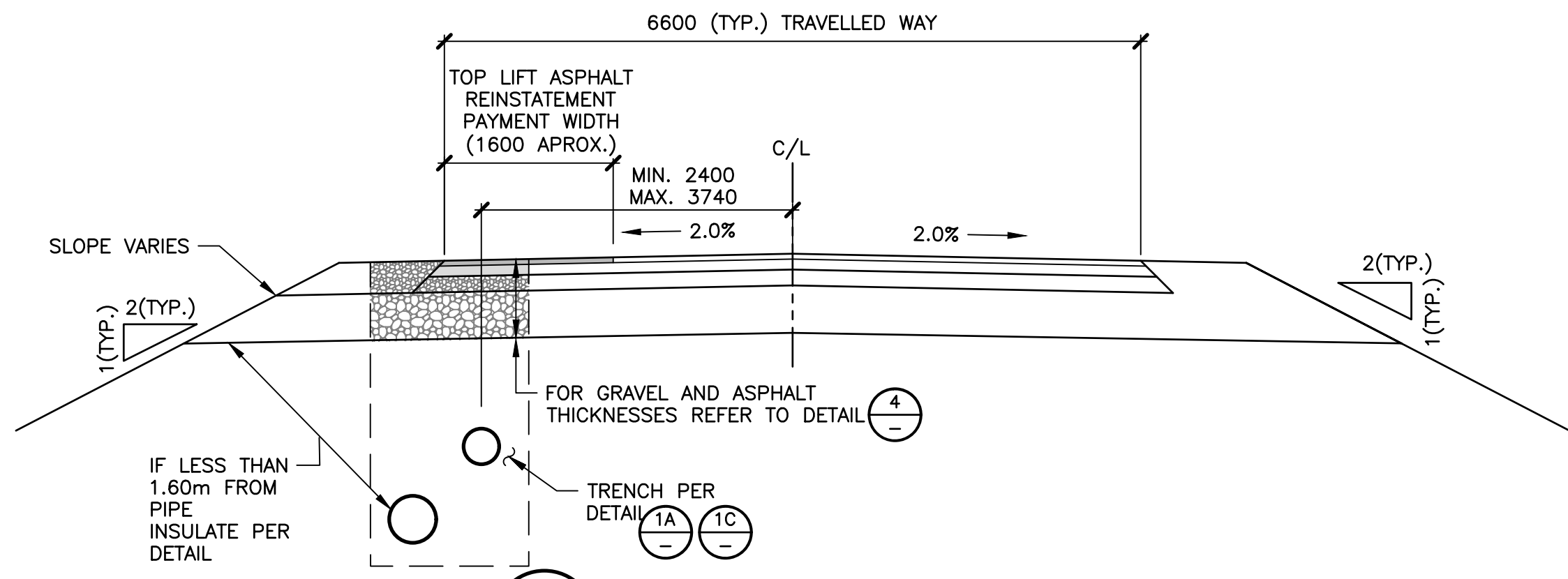


PLAN
1:25

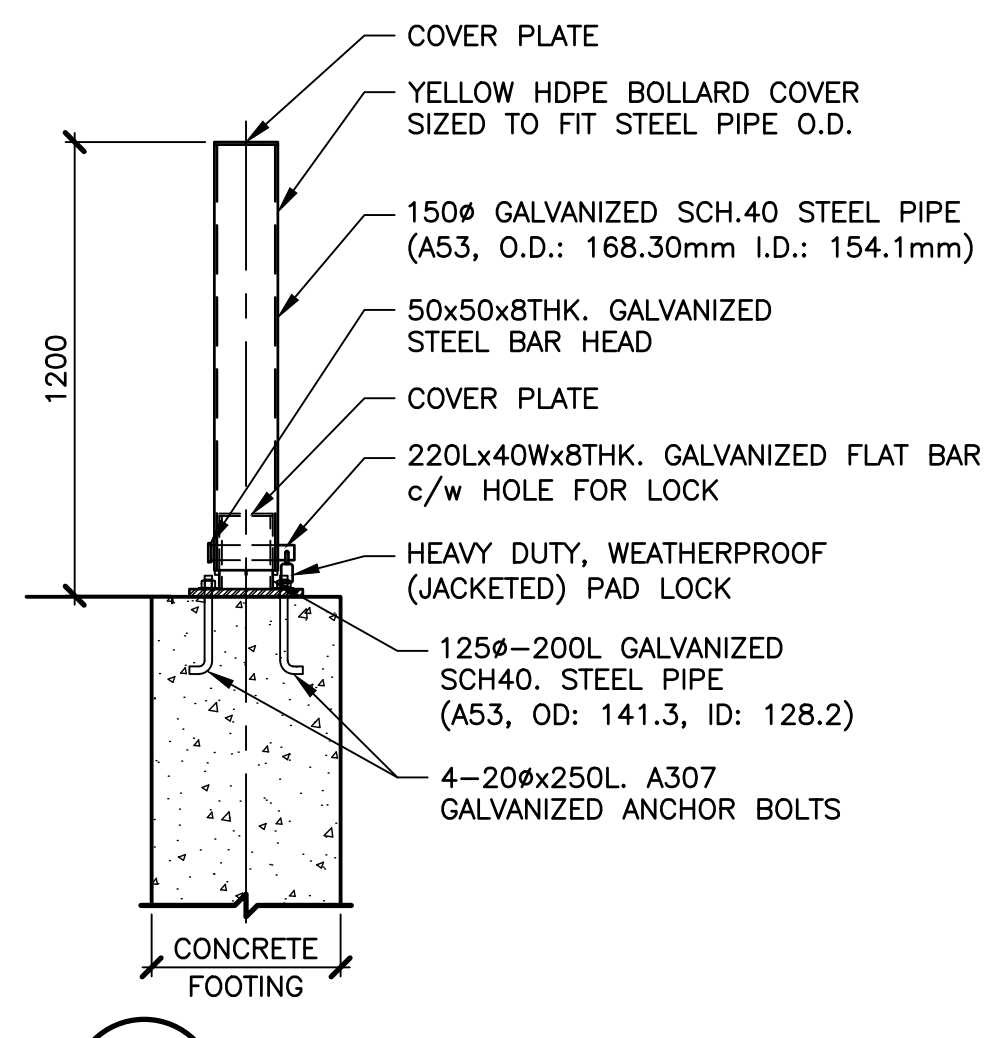


A SECTION
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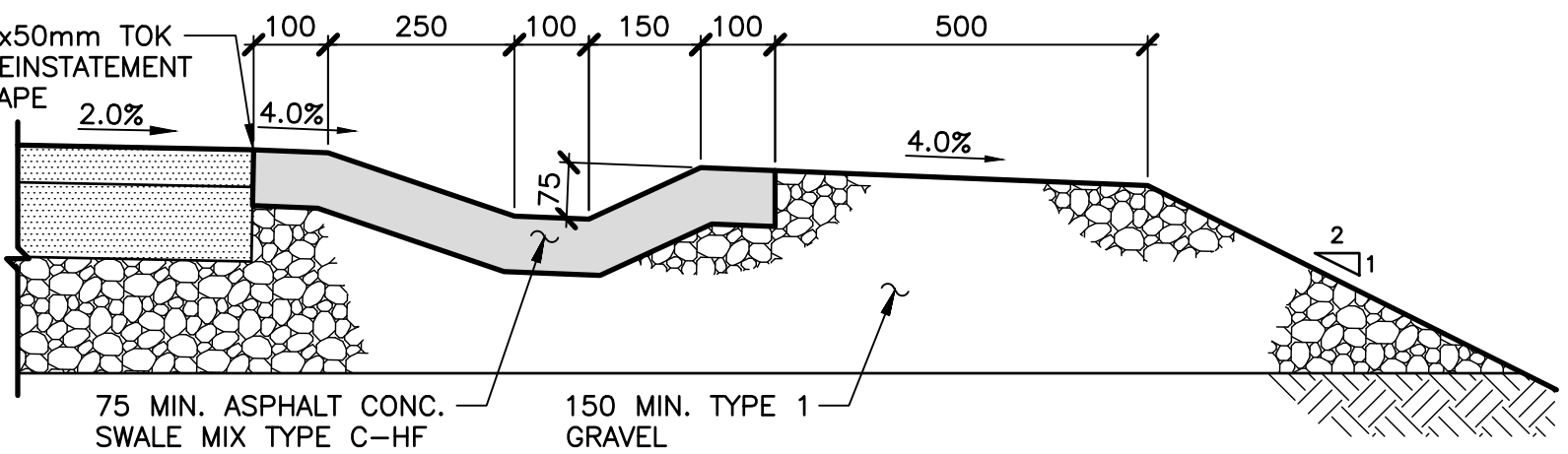
9 DETAIL—MANHOLE COVER APRON
1:25



9A DETAIL—ASPHALT TOP LIFT REINSTATEMENT HALF LANE
1:50

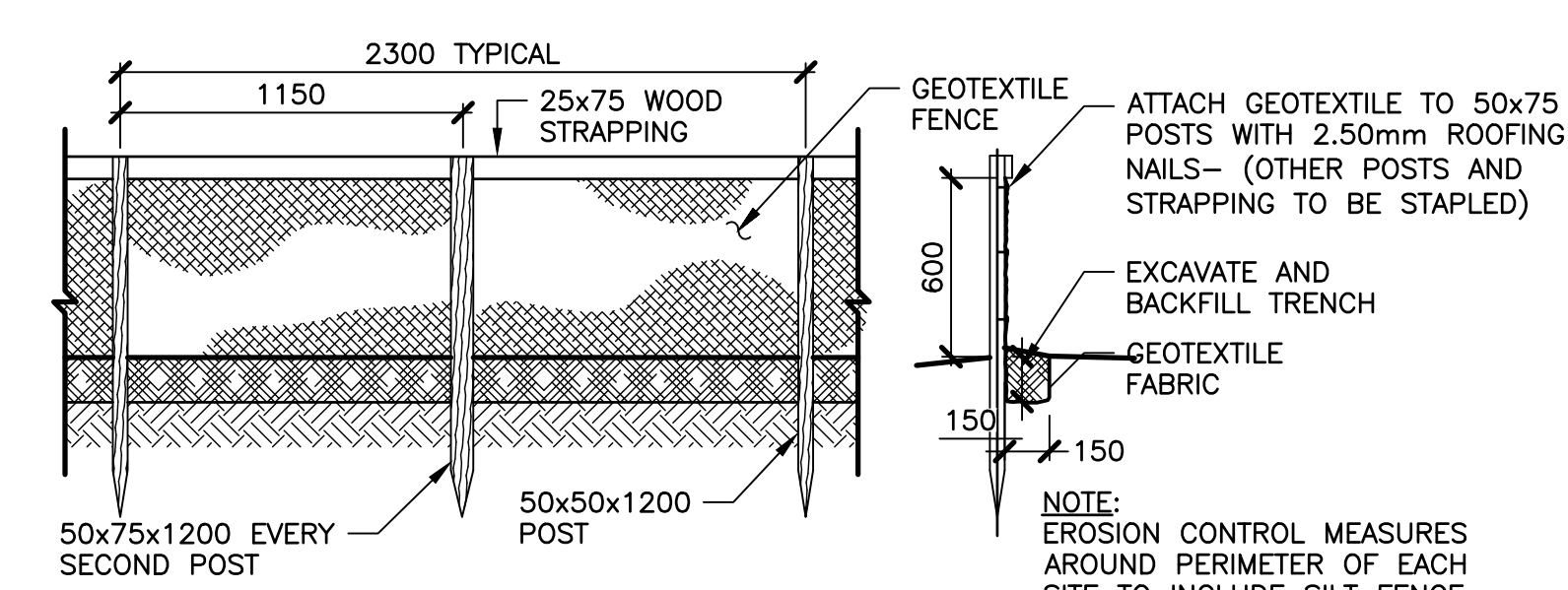


11 DETAIL—REMOVABLE BOLLARD
1:20

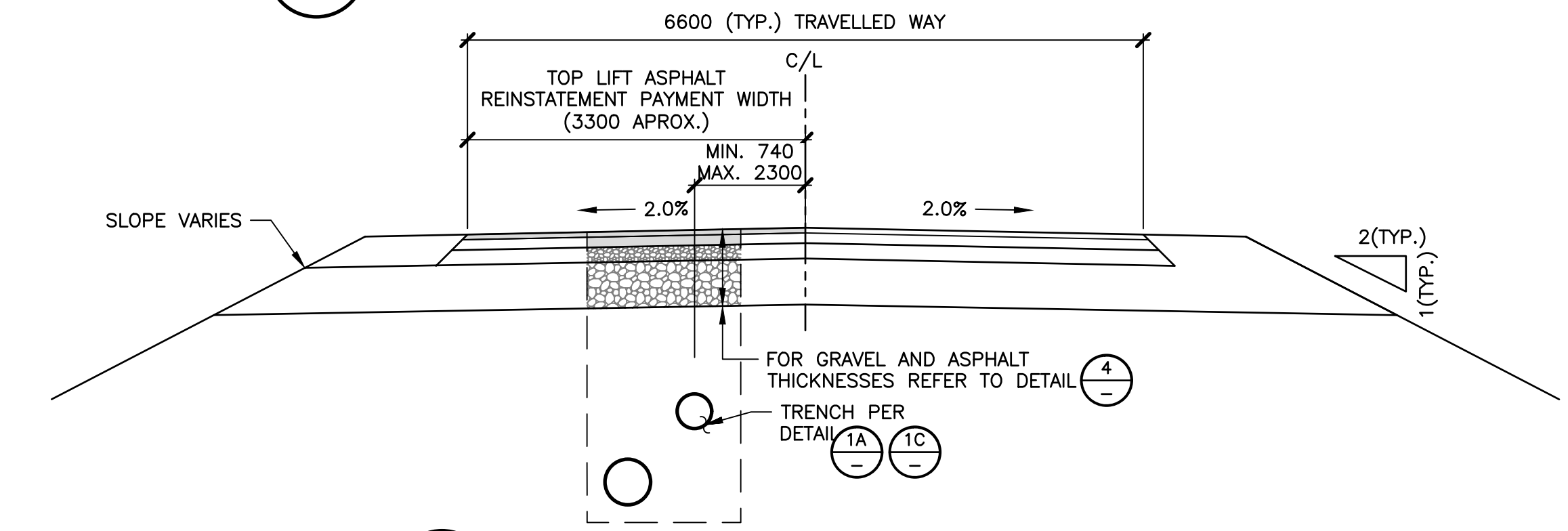


8 DETAIL—ASPHALT SWALE (PROVISIONAL)
1:10

- NOTES:**
1. ASPHALT SWALE SHALL EXTEND TO THE EDGE OF SHOULDER AND DOWN THE SLOPE BY A MINIMUM OF 1.0m.
 2. MATCH CROSSFALL OF SWALE TO EXISTING CROSSFALL OF ROAD.
 3. ASPHALT SWALE TO BE MACHINE PLACED.

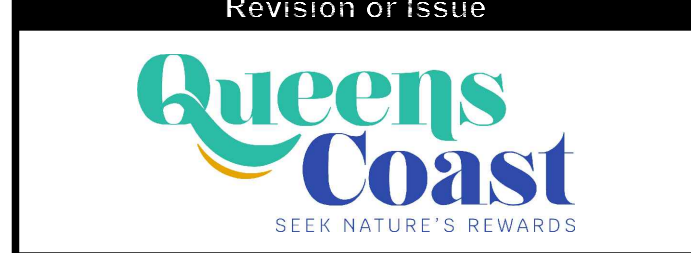


10 DETAIL—SEDIMENT CONTROL FENCE
1:25



10A DETAIL—ASPHALT TOP LIFT REINSTATEMENT FULL LANE
1:50

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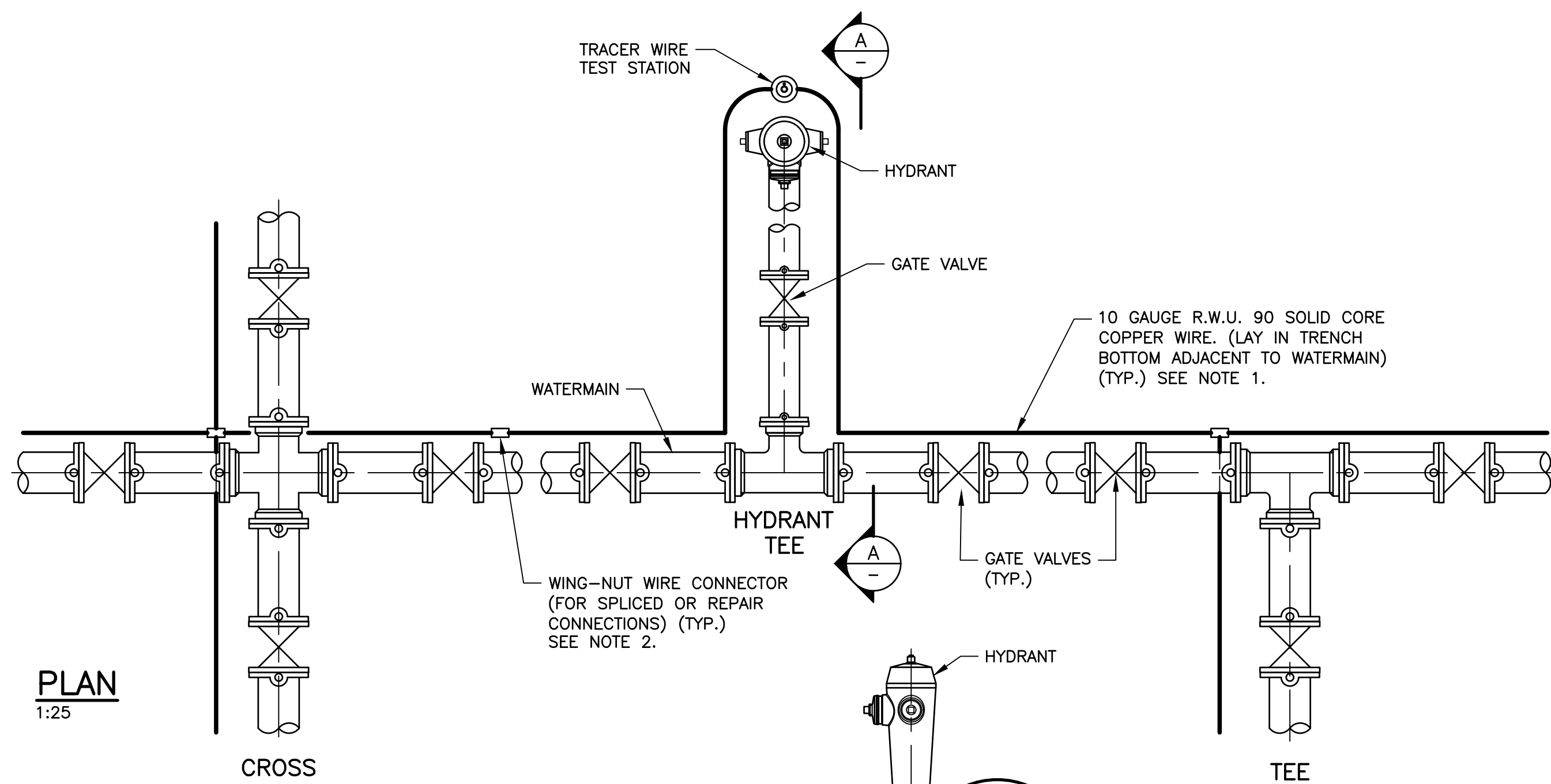


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CIVIL
SITE FINISHING DETAILS

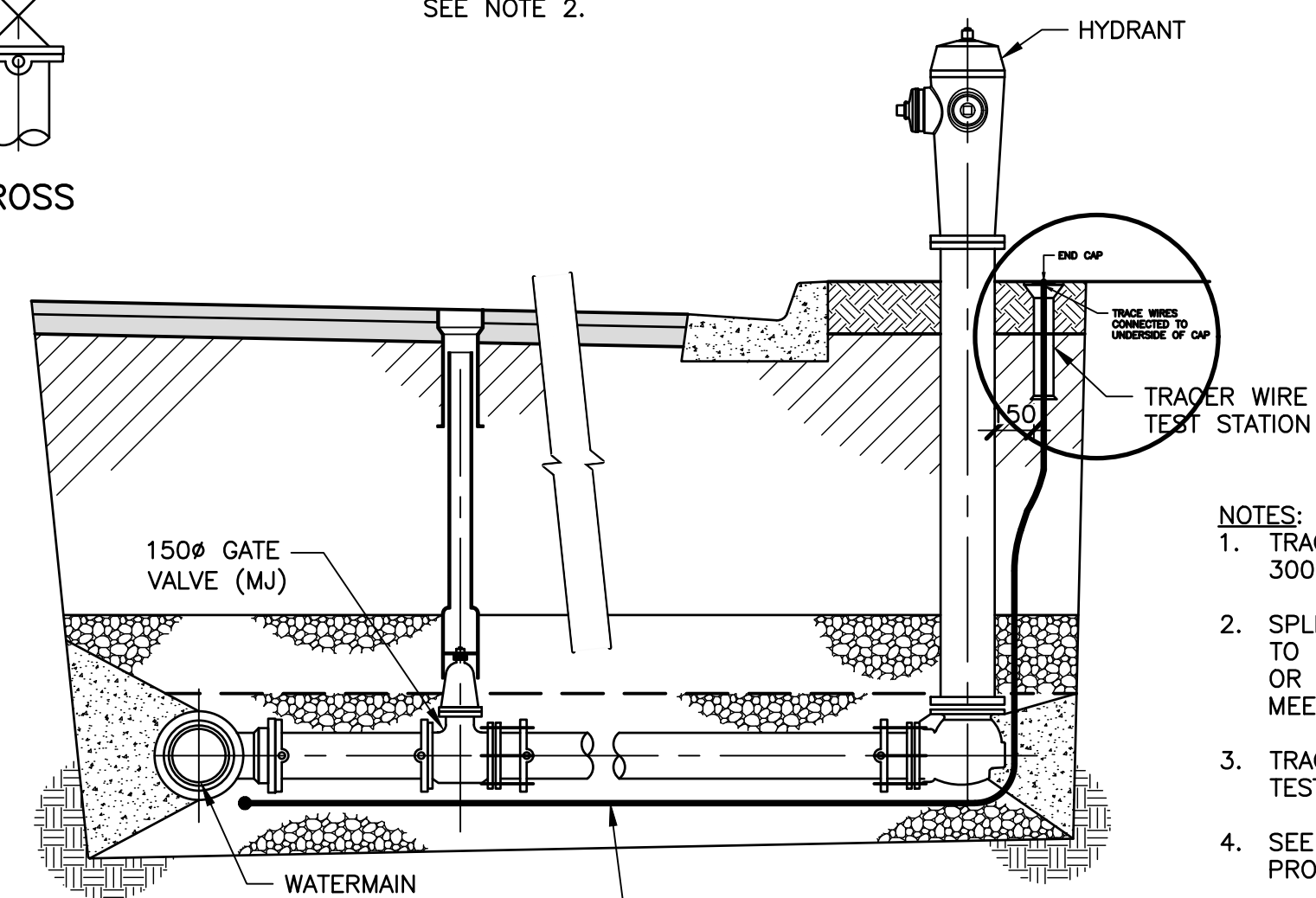


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PLAN
1:25

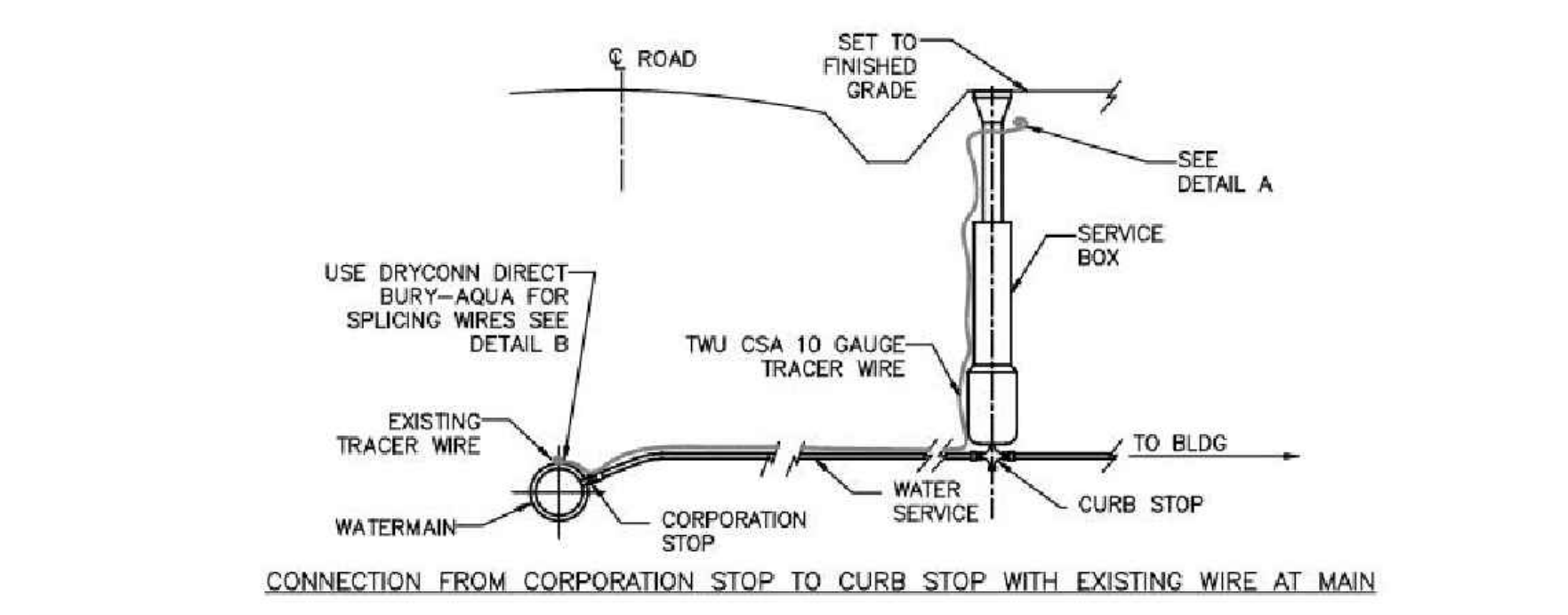
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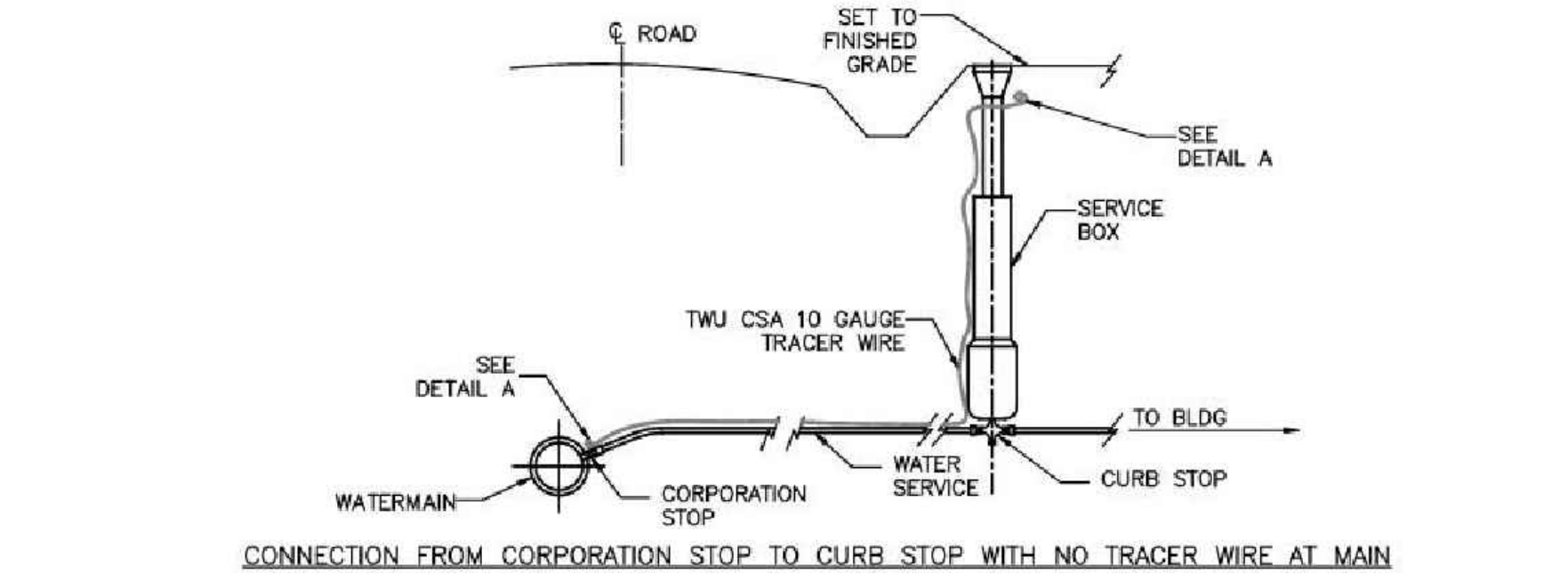
A SECTION
1:25

1 DETAIL—STANDARD TRACE WIRE FOR PVC WATERMAIN
1:25

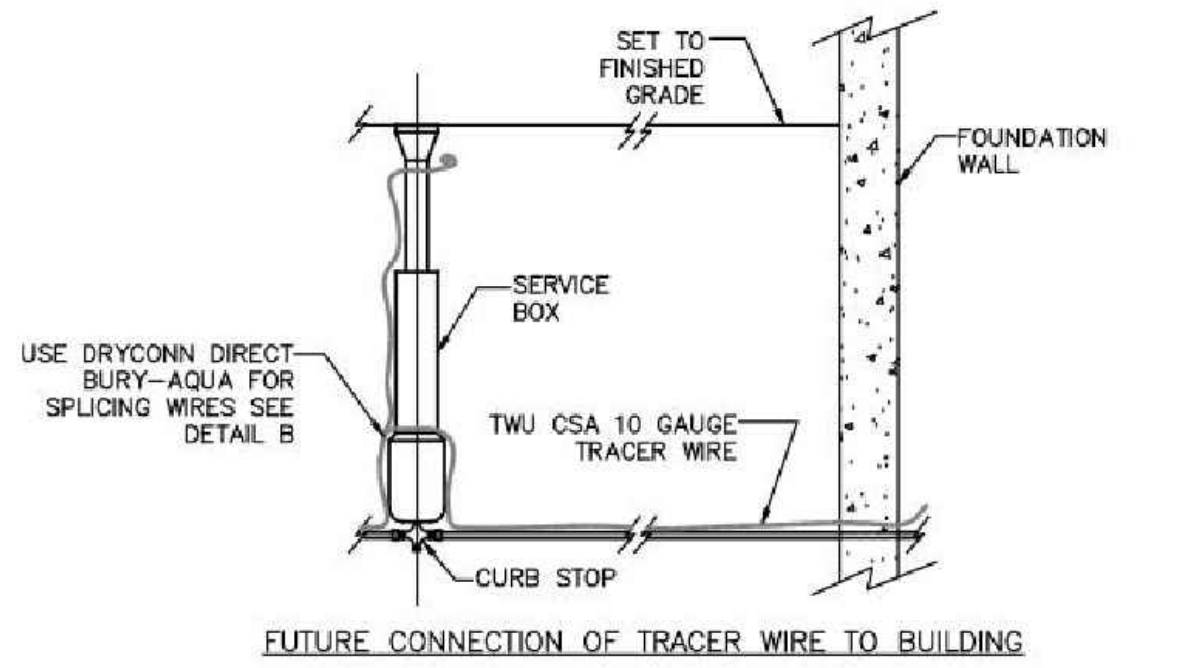
- NOTES:
1. TRACER WIRE TO BE SET IN 300m LENGTHS
 2. SPLICE ONLY WHERE NECESSARY TO JOIN TWO SPOOLS OF WIRE OR WHERE MULTIPLE RUNS MEET AT AN INTERSECTION.
 3. TRACE WIRE SYSTEM TO BE TESTED TO ENSURE CONTINUITY.
 4. SEE SPECIFICATION FOR PRODUCT INFORMATION.



CONNECTION FROM CORPORATION STOP TO CURB STOP WITH EXISTING WIRE AT MAIN



CONNECTION FROM CORPORATION STOP TO CURB STOP WITH NO TRACER WIRE AT MAIN



FUTURE CONNECTION OF TRACER WIRE TO BUILDING

2 DETAIL—TRACER WIRE FOR CROSS-LINKED POLYETHYLENE (PEX_a)
NTS

0	ISSUED FOR TENDER	JUL 03/25	RWM
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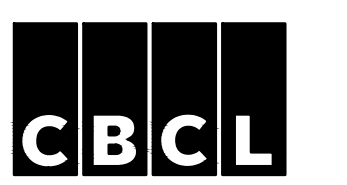


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MOUNT PLEASANT WATER AND SANITARY SERVICING EXTENSION

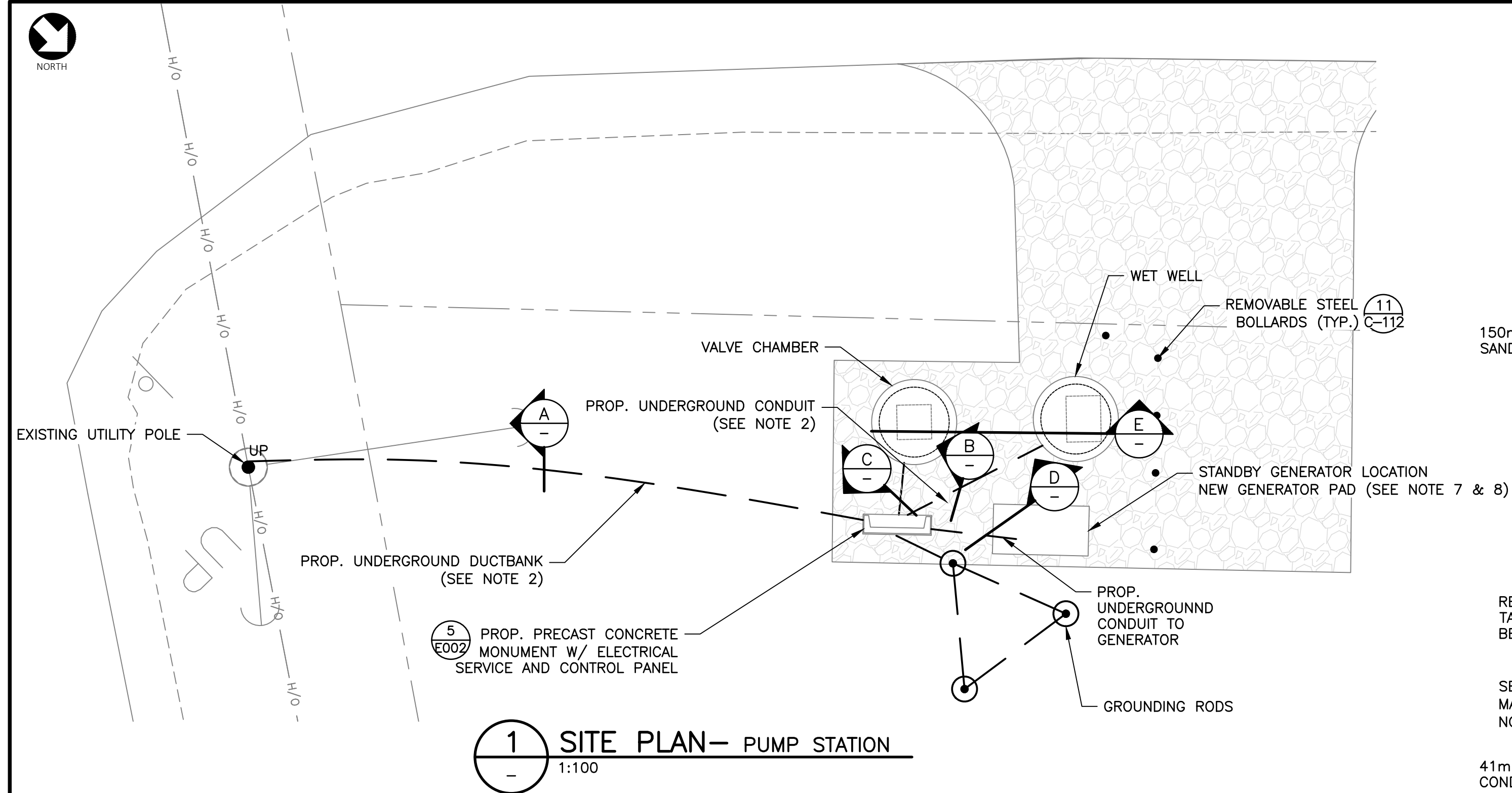
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TRACER WIRE DETAILS



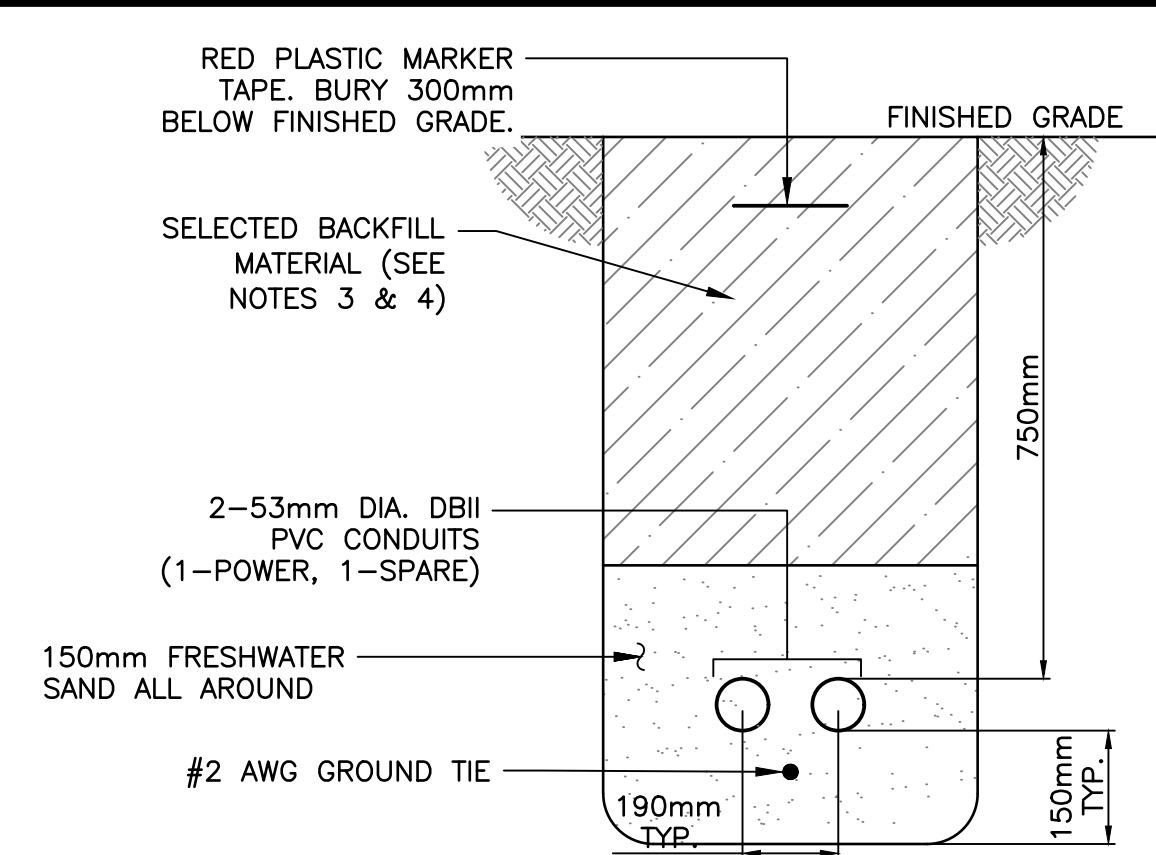
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Date FEB 2025	Scale AS NOTED
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C113

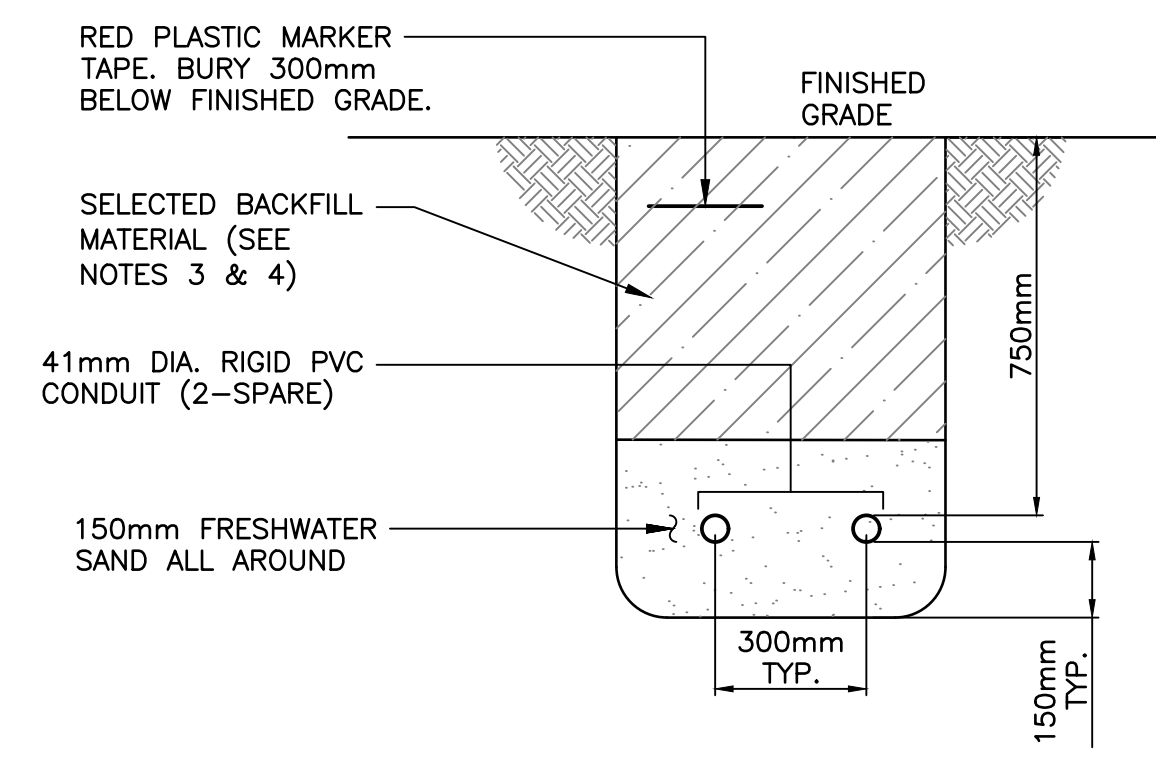


1 SITE PLAN— PUMP STATION
1:100

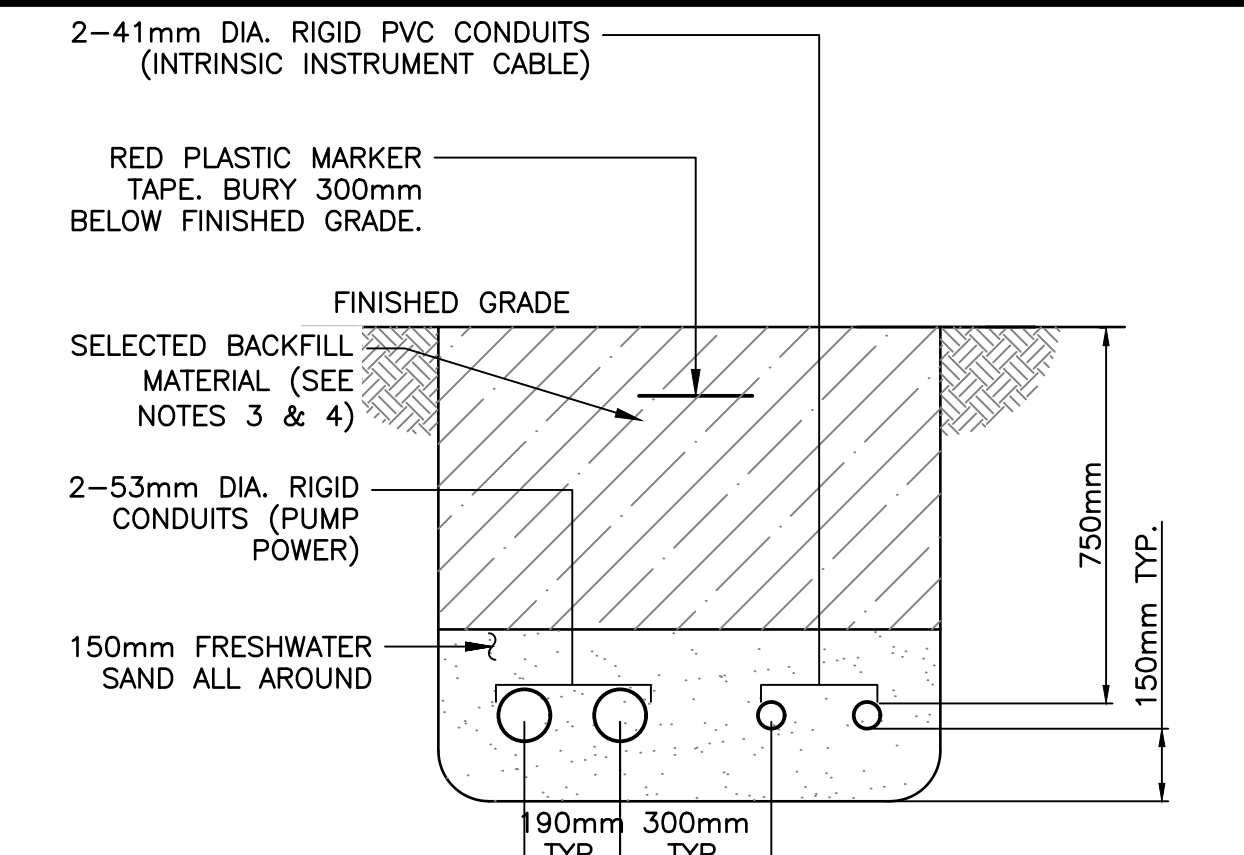
ELECTRICAL LEGEND		SINGLE LINE DIAGRAM LEGEND CONT'D	
HAZARDOUS AREA CLASSIFICATION		SYMBOL	DESCRIPTION
SYMBOL	DESCRIPTION	⊕	15A, 120V, DUPLEX RECEPTACLE: TYPE 5-15R
	INDICATES ZONE 1 HAZARDOUS AREA GAS GROUP IIA & IIB, T3 TEMP CODE	ANNOTATIONS	
	INDICATES ZONE 2 HAZARDOUS AREA GAS GROUP IIA & IIB, T3 TEMP CODE	EX	HAZARDOUS AREA-RATED
	UNCLASSIFIED	LSHL	LEVEL SWITCH HIGH LEVEL
SITE PLAN		LSLL	LEVEL SWITCH LOW LEVEL
---	UNDERGROUND CONDUIT/CABLE	BLOCK DIAGRAM	
● UP	UTILITY POLE	XXX YYY	INSTRUMENT TAG NUMBER XX = INSTRUMENT TYPE YYY = INSTRUMENT NUMBER
•	BOLLARDS	CONTROLS LEGEND	
⊙	GROUNDING ROD	□	TERMINAL BLOCK LOCATED IN MOTOR STARTER OR CONTROL PANEL
SINGLE LINE DIAGRAM LEGEND		○	INSTRUMENT TERMINAL
	CIRCUIT BREAKER X=BREAKER RATING Y=# OF POLES		SURGE SUPPRESSOR
	TRANSFORMER (SINGLE PHASE)		FUSE
	POWER METER		MOTOR STARTER COIL
	SURGE PROTECTION DEVICE		RELAY COIL
	UNDERGROUND CABLE/CONDUIT		NORMALLY OPEN CONTACT
	JUNCTION BOX		NORMALLY CLOSED CONTACT
	THREE PHASE MOTOR, HORSE POWER AS INDICATED		OVERLOAD RELAY CONTACT
⊕	GROUND		PILOT LIGHT, COLOUR AS INDICATED (W=WHITE, A=AMBER, G=GREEN, R=RED)
	FULL VOLTAGE NON-REVERSIBLE STARTER (SIZE AS INDICATED)		MOUNTED ON INNER DOOR
	OVERLOAD		THREE POSITION SELECTOR SWITCH
	TRANSFORMER CONFIGURATION: GROUND WYE		
	STAND-BY GENERATOR		
	AUTOMATIC TRANSFER SWITCH		



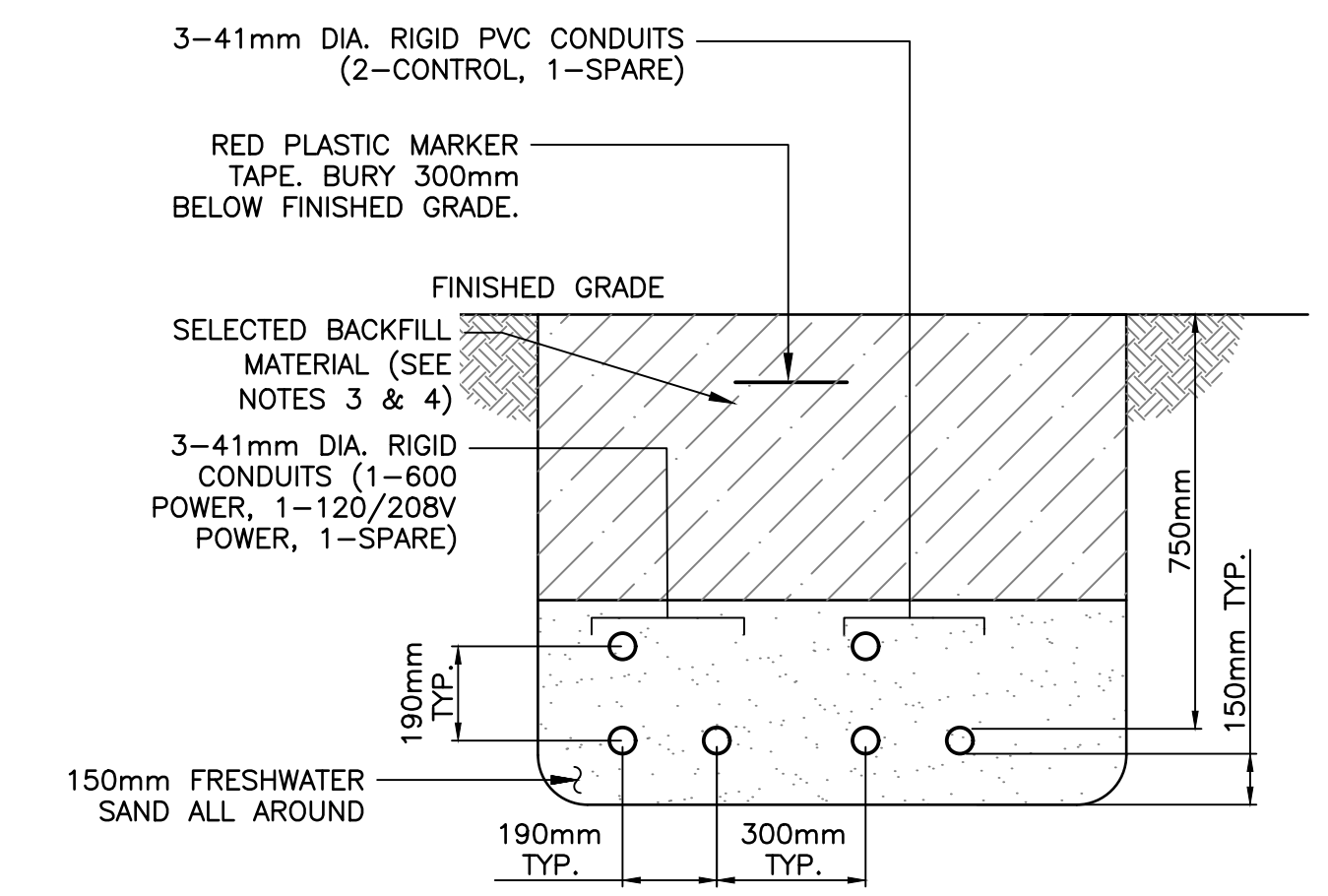
A SECTION— SECONDARY SERVICE DUCTBANK
N.T.S.



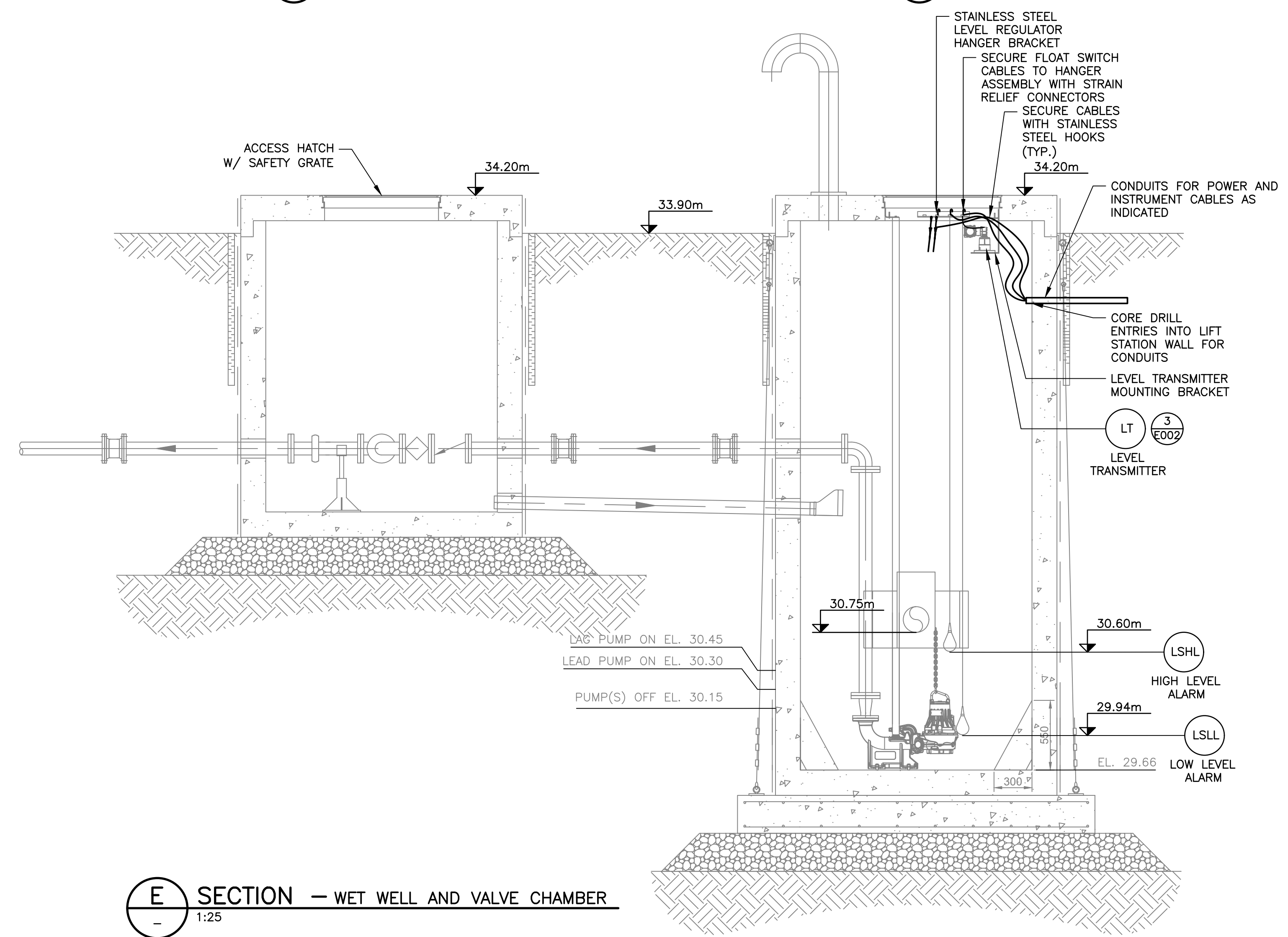
C SECTION— VALVE CHAMBER DUCTBANK
N.T.S.



B SECTION— ELECTRICAL DUCTBANK TO WET WELL
N.T.S.



D SECTION— GENERATOR DUCTBANK
N.T.S.



E SECTION — WET WELL AND VALVE CHAMBER
1:25

- NOTES:**
- ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
 - LOCATIONS OF UNDERGROUND SERVICES SHOWN ON SITE PLANS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE TO CONFIRM THE LOCATIONS OF ANY EXISTING OVERHEAD OR BURIED SERVICES AS REQUIRED FOR ANY INSTALLATION OF ANY NEW ELECTRICAL SERVICES.
 - BACKFILL TRENCH IN LAYERS NOT EXCEEDING 300mm (MECHANICALLY TAMPED).
 - BACKFILL TRENCH WITH SELECTED BACKFILL SOIL IN ACCORDANCE WITH SPECIFICATIONS AND FREE FROM LARGE ROCK AND DEBRIS.
 - MAINTAIN MINIMUM 1m LATERAL SEPARATION FROM ALL OTHER PIPING AND MAINTAIN 300mm SEPARATION BETWEEN POWER AND COMMUNICATION/INSTRUMENTATION.
 - UNLESS NOTED OTHERWISE, DIMENSIONS ARE IN MILLIMETERS.
 - REFER TO DRAWING C-111 FOR GENERATOR PAD DETAIL.
 - CONTRACTOR TO COORDINATE STUB UP LOCATION OF CONDUIT AT THE GENERATOR PAD BASED ON APPROVED GENERATOR SHOP DRAWINGS.

0	ISSUED FOR TENDER	JUL 03/25	RWM
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Revision or Issue

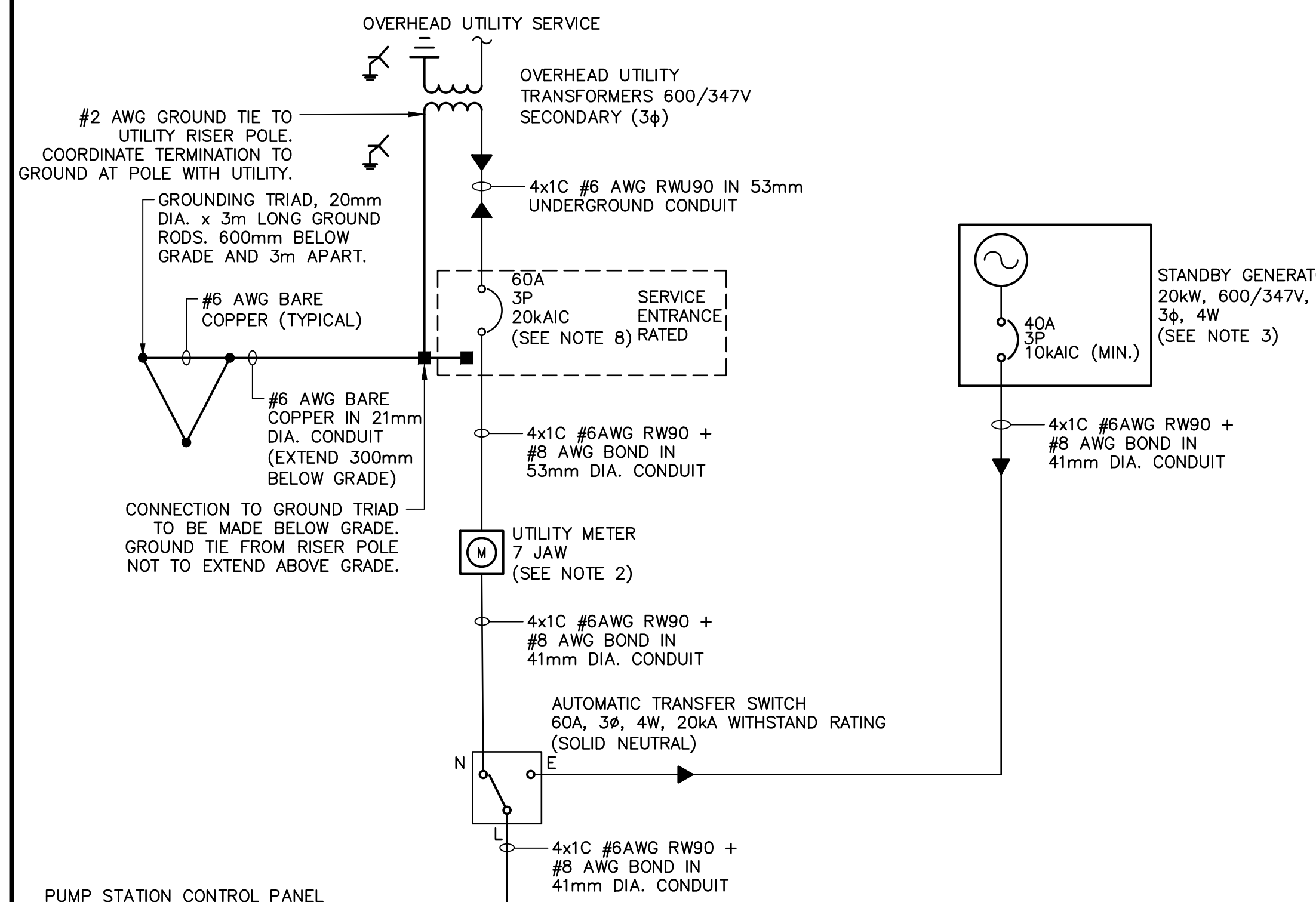
Queens Coast
SEEK NATURE'S REWARDS

REGION OF QUEENS
MUNICIPALITY
MOUNT PLEASANT WATER AND
SANITARY SERVICING EXTENSION

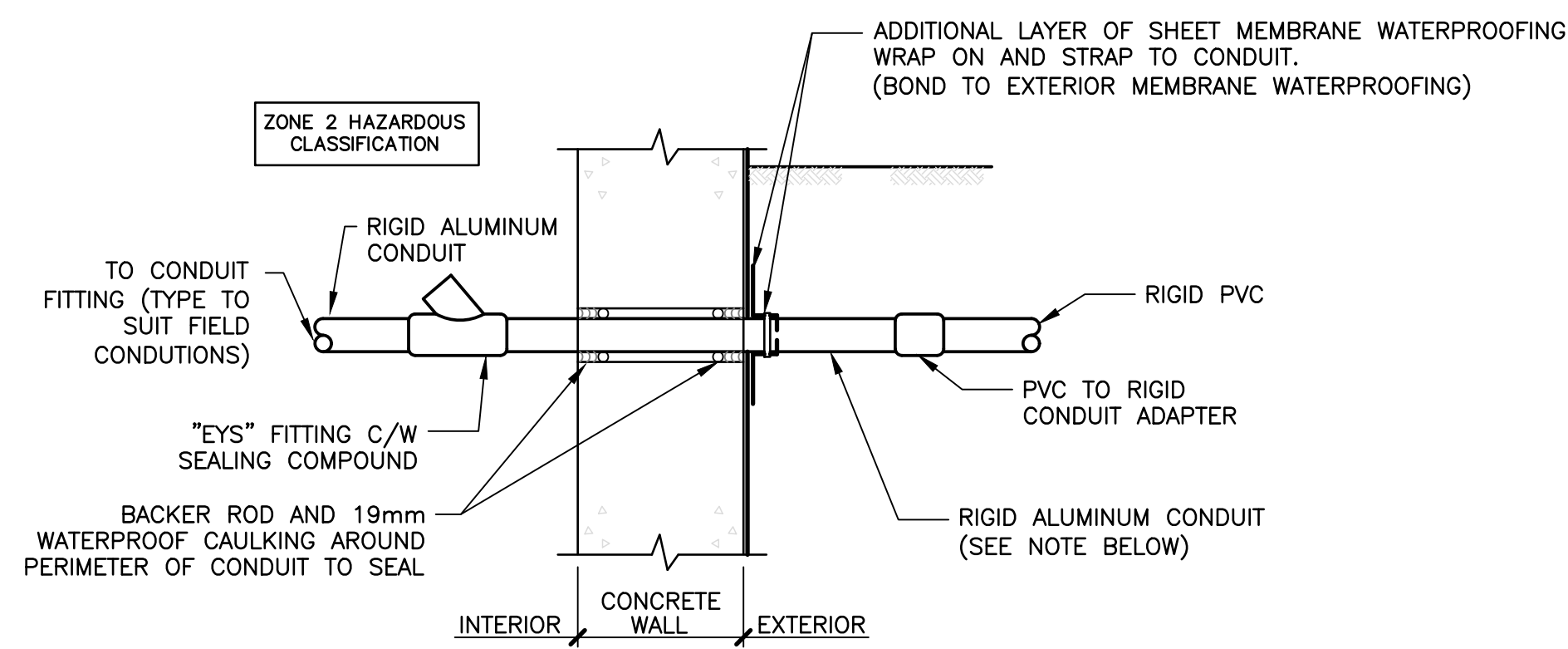
ELECTRICAL
LEGEND SITE PLAN &
DETAILS

CBCL

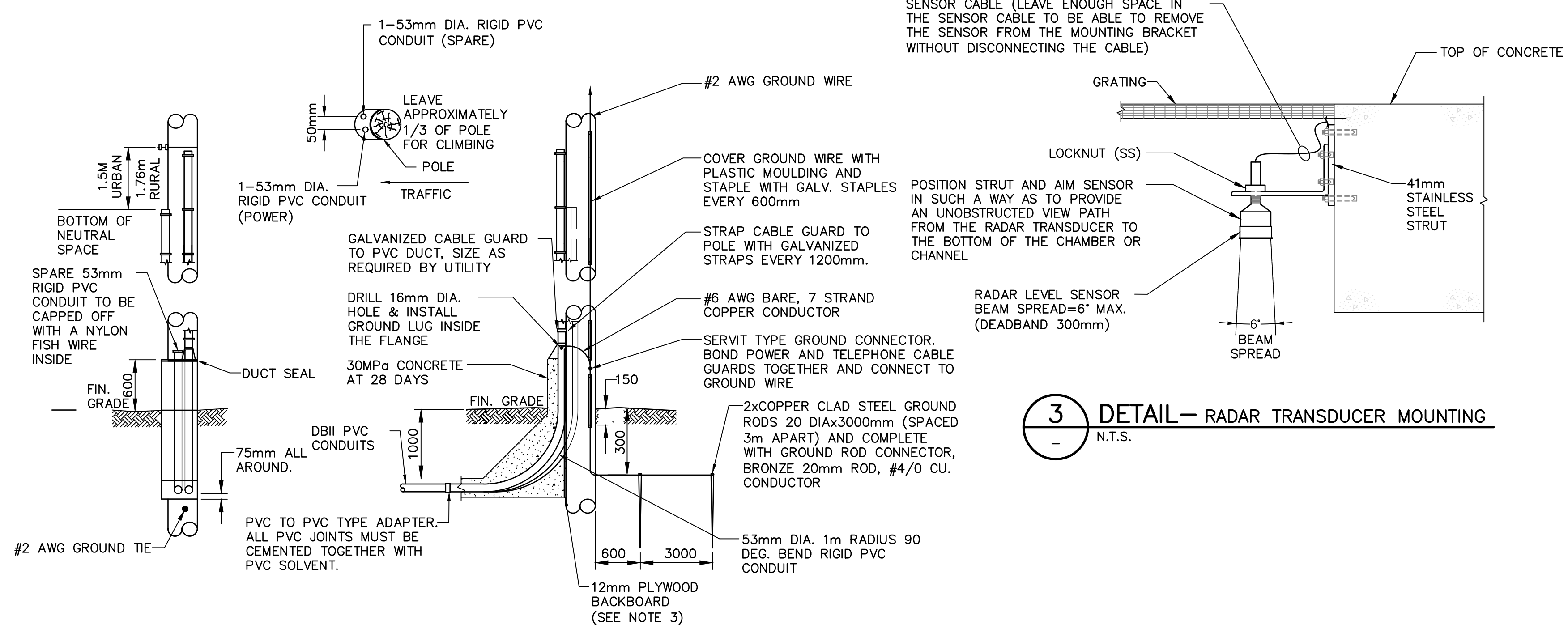
CBCL No 241008.00	Contract No
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Designed DA	Drawn DA
Checked DK	Approved RWM
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Drawing No E001	



1 PROPOSED SINGLE LINE DIAGRAM - PUMP STATION
N.T.S.

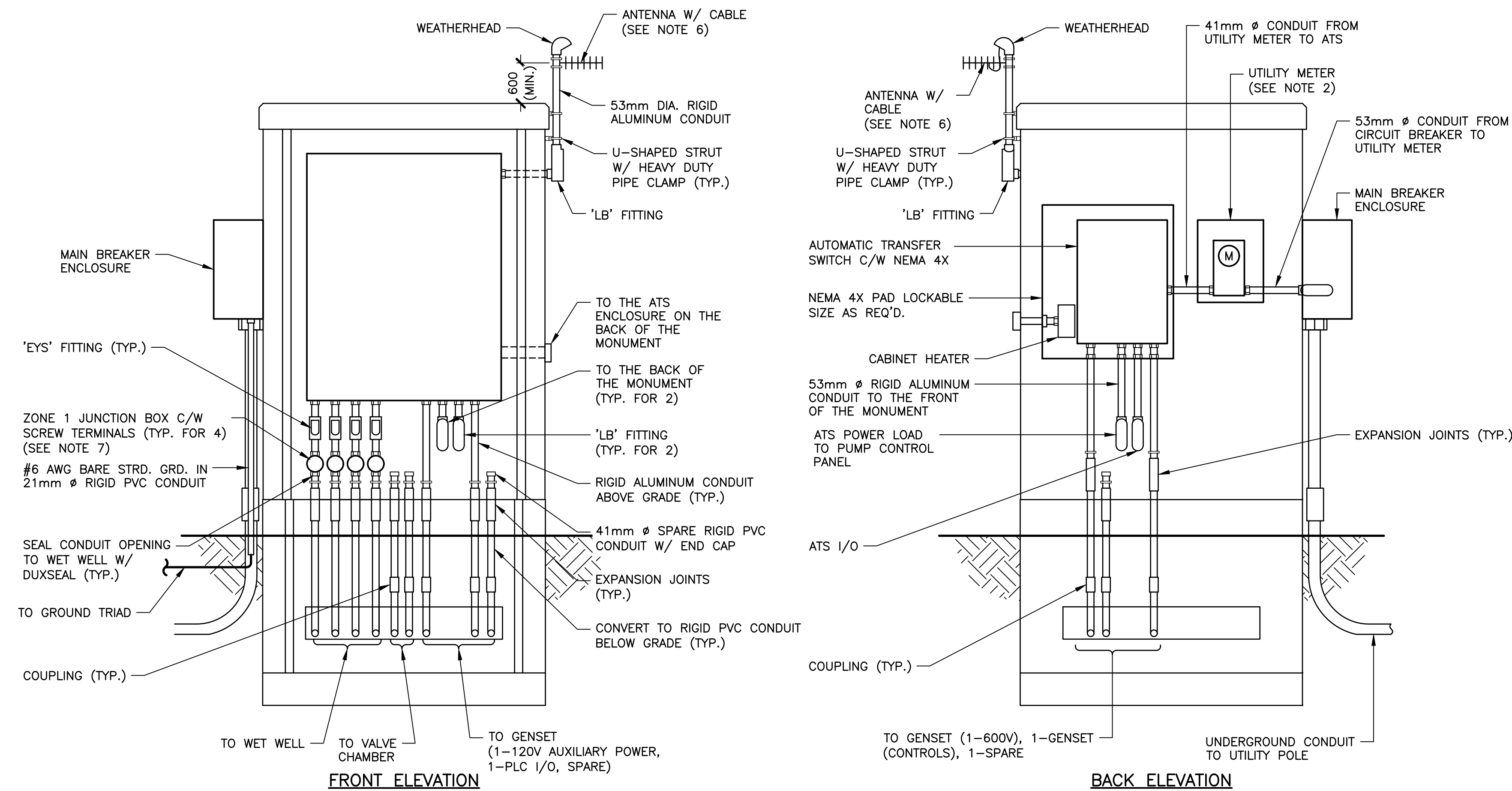


4 VALVE CHAMBER BELOW GRADE CONDUIT THROUGH WALL
N.T.S.



2 DETAIL - UTILITY POLE
N.T.S. (SEE NOTE 4)

3 DETAIL - RADAR TRANSDUCER MOUNTING
N.T.S.



5 DETAIL - ELECTRICAL SERVICE AND CONTROL PANEL INSTALLATION
N.T.S.

- NOTES**
- UNLESS OTHERWISE NOTED, ELECTRICAL EQUIPMENT IS NEW.
 - SUPPLY AND INSTALL UTILITY METER SOCKET IN ACCORDANCE WITH UTILITY STANDARDS.
 - REMOVE GROUNDING JUMPER BETWEEN GENERATOR FRAME AND NEUTRAL.
 - VERIFY SERVICE MAST HEIGHT WITH POWER UTILITY BEFORE CONSTRUCTION.
 - SUPPLY, INSTALL AND SIZE CONDUITS, CONDUIT FITTINGS AND JUNCTION BOXES PER THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR MAY COMBINE CONDUITS OF SIMILAR CIRCUITS AS DICTATED BY FIELD CONDITIONS AND THE CANADIAN ELECTRICAL CODE TO REDUCE THE NUMBER OF CONDUITS. THE MAXIMUM INSTRUMENTATION/CONTROL CONDUIT SIZE IS 53mm DIA.
 - ANTENNA C/W CABLE AND MOUNTING BRACKET, SUPPLIED AND INSTALLED BY CONTRACTOR VERIFY HEIGHT AND ORIENTATION WITH OWNER.
 - SUPPLY AND INSTALL ADEQUATE TERMINALS IN EACH BOX FOR CONDUCTOR TERMINATION.
 - SUPPLY AND INSTALL EQUIPMENT IN A NEMA 4X PADLOCKABLE ENCLOSURE (316SS) SIZE AS REQUIRED, C/W DOOR STOP

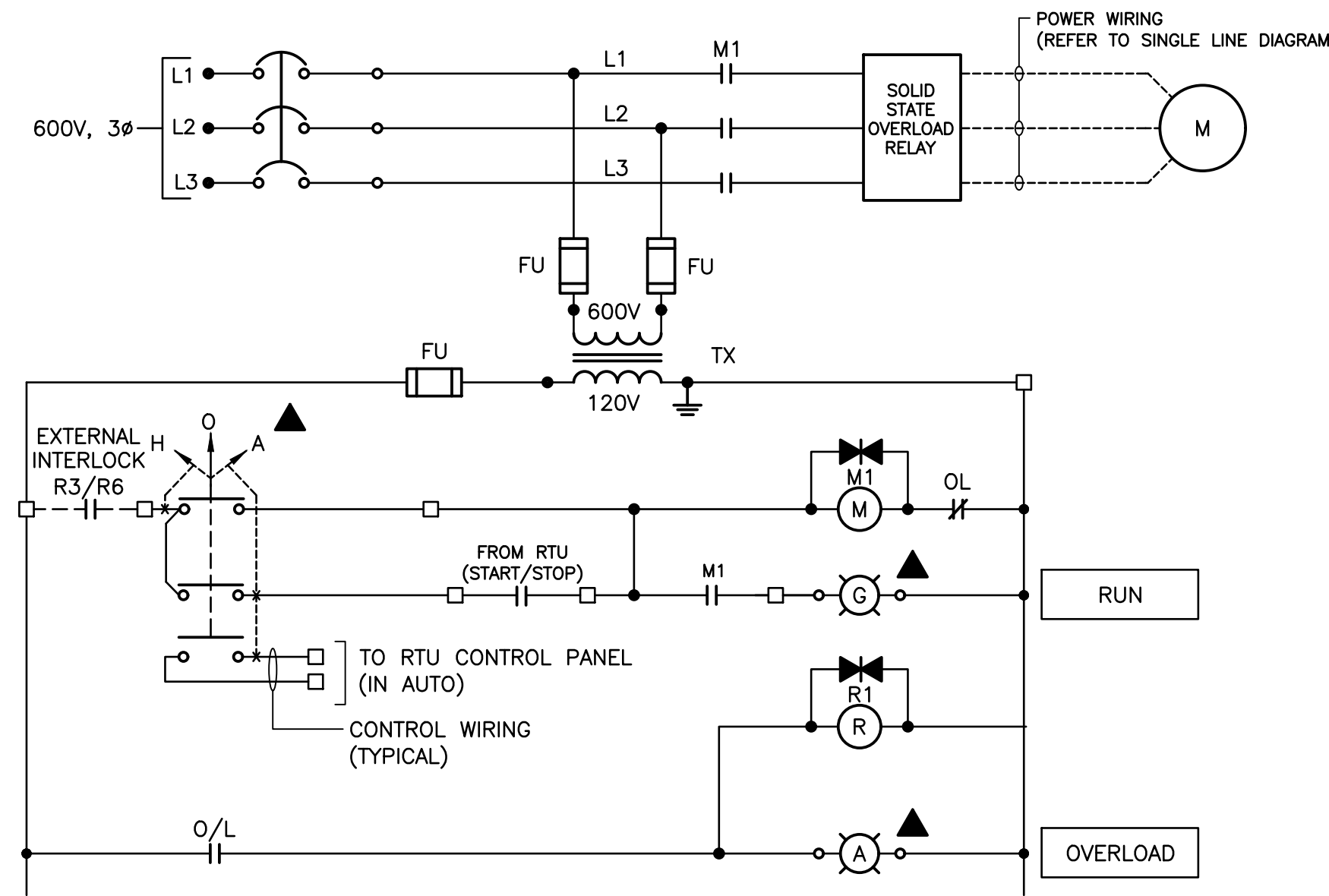
No.	Description	Date	By
0	ISSUED FOR TENDER	JUL 03/25	RWM

Revision or Issue

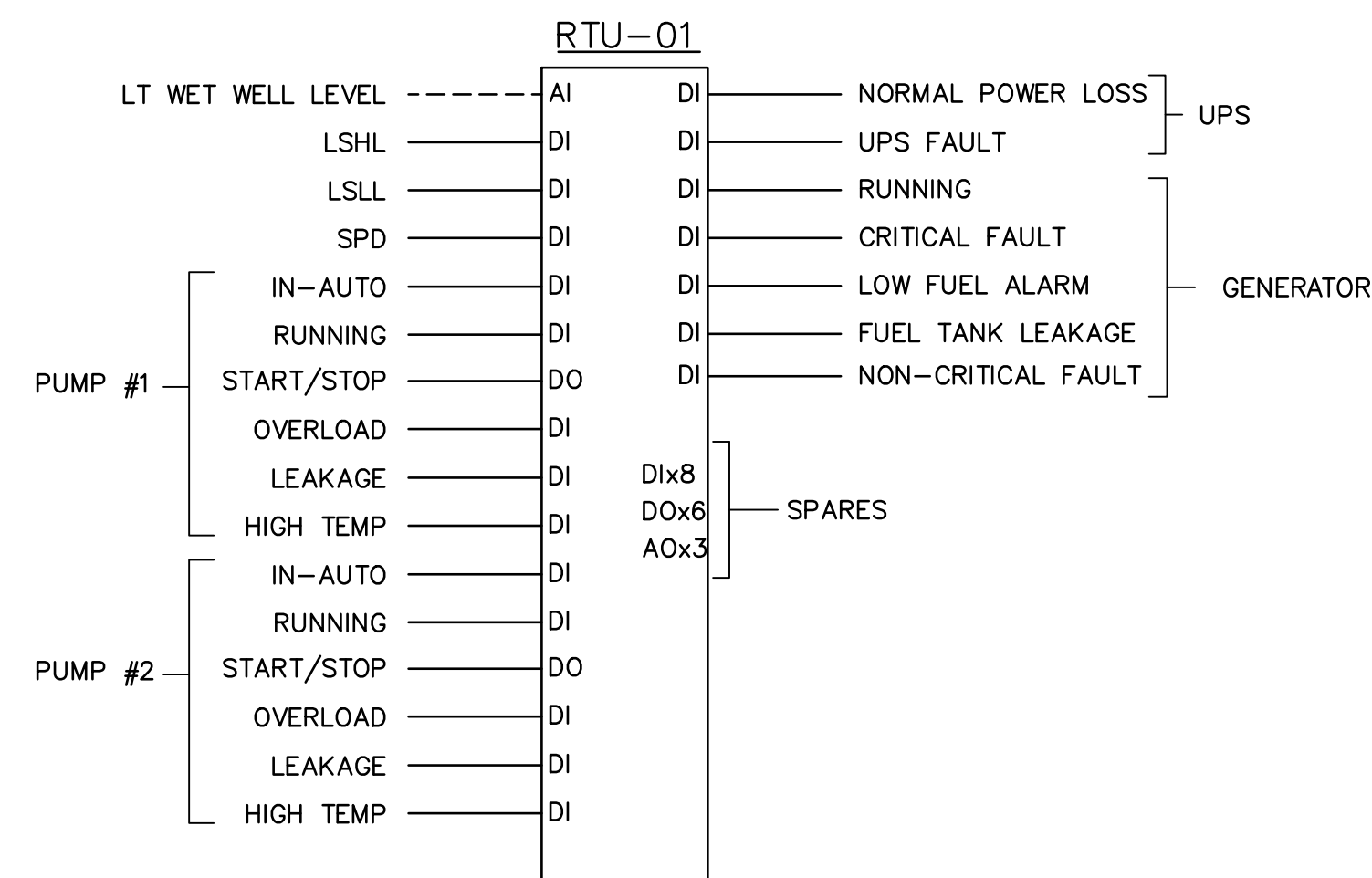
REGION OF QUEENS MUNICIPALITY
MOUNT PLEASANT WATER AND SANITARY SERVICING EXTENSION

ELECTRICAL
SINGLE LINE & DETAILS

Contract No. 241008.00	Scale AS NOTED
Date FEB 2025	Drawn DA
Designed DA	Approved RWM
Checked DD	Sheet No. 2 of 3
Sheet No. 11573	Drawing No. E002

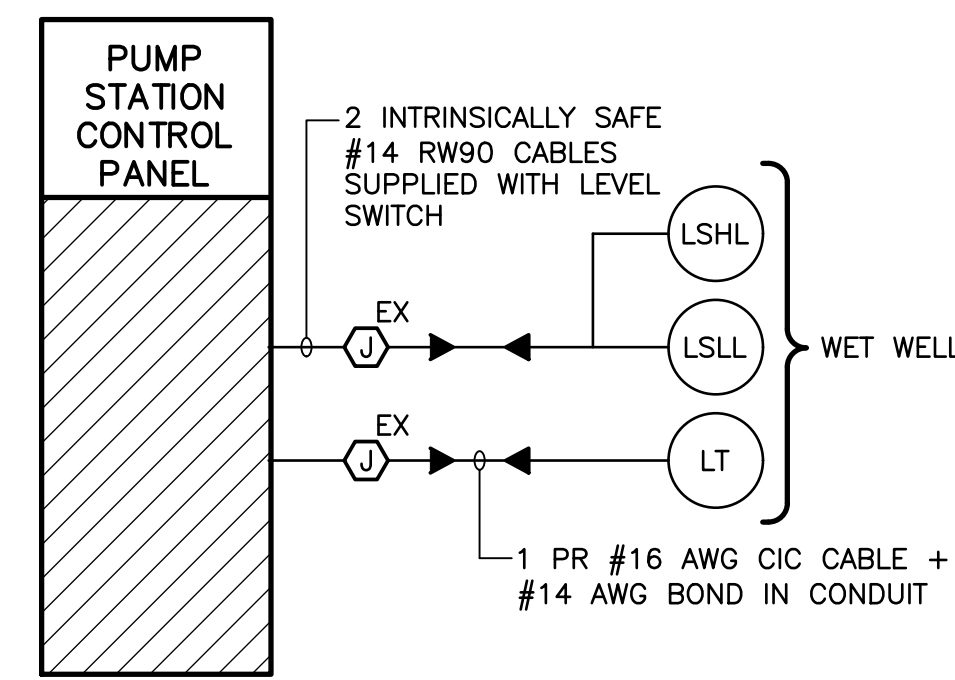


1 SCHEMATIC—VVVR STARTER
NTS TYP. FOR ALL PUMPS

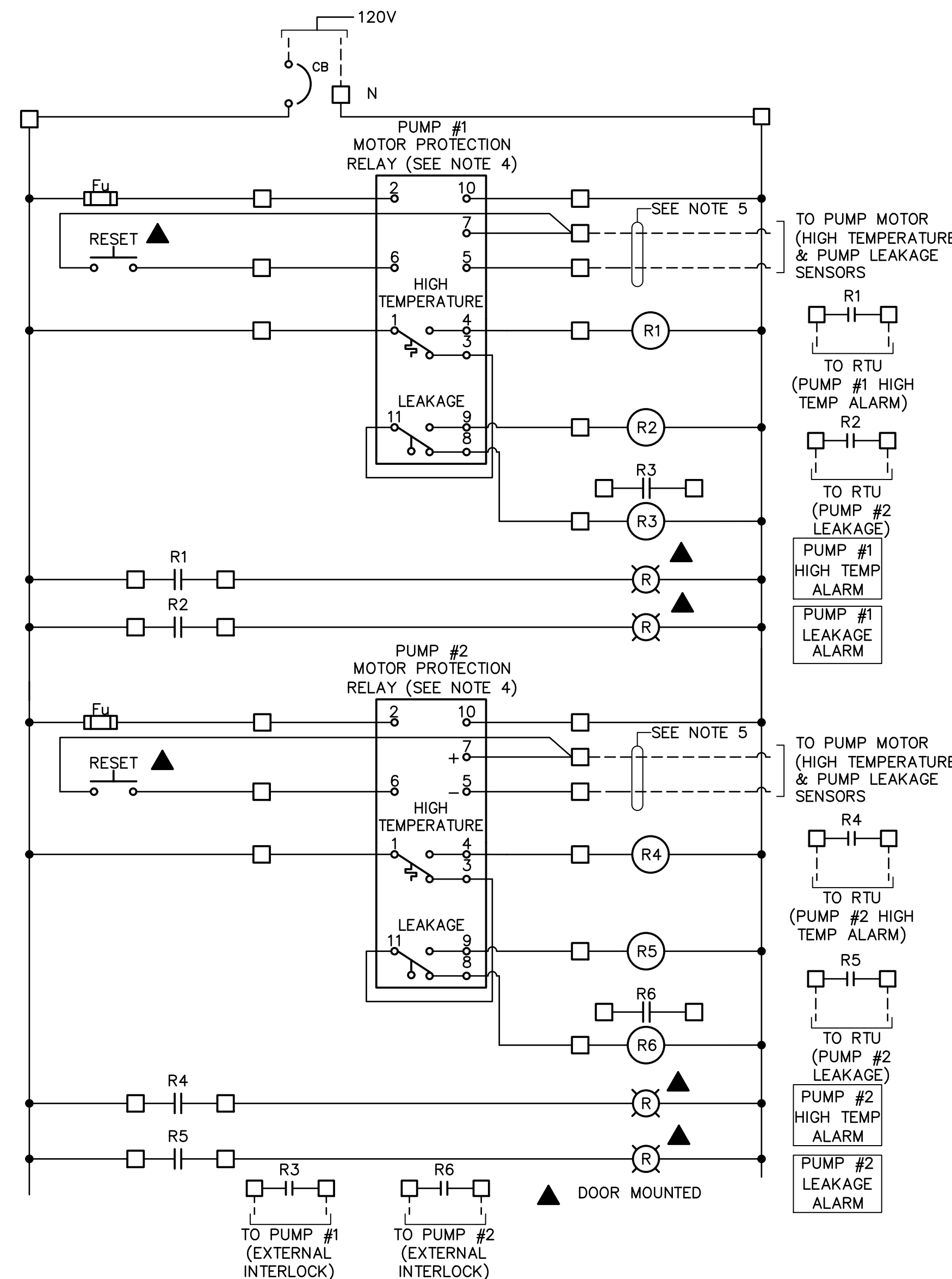


- NOTES:
- FOR EACH DI/DO, PROVIDE 2x1C #14 AWG RW90 + #14 AWG BOND IN CONDUIT (MIN. 21mm DIA.)
 - FOR EACH AI/AO, PROVIDE 1PR #16 AWG (SHIELDED & TWISTED) + #14 BOND IN CONDUIT (MIN. 21mm DIA.)
 - INCLUDE FIELD TERMINALS FOR SPARE I/O

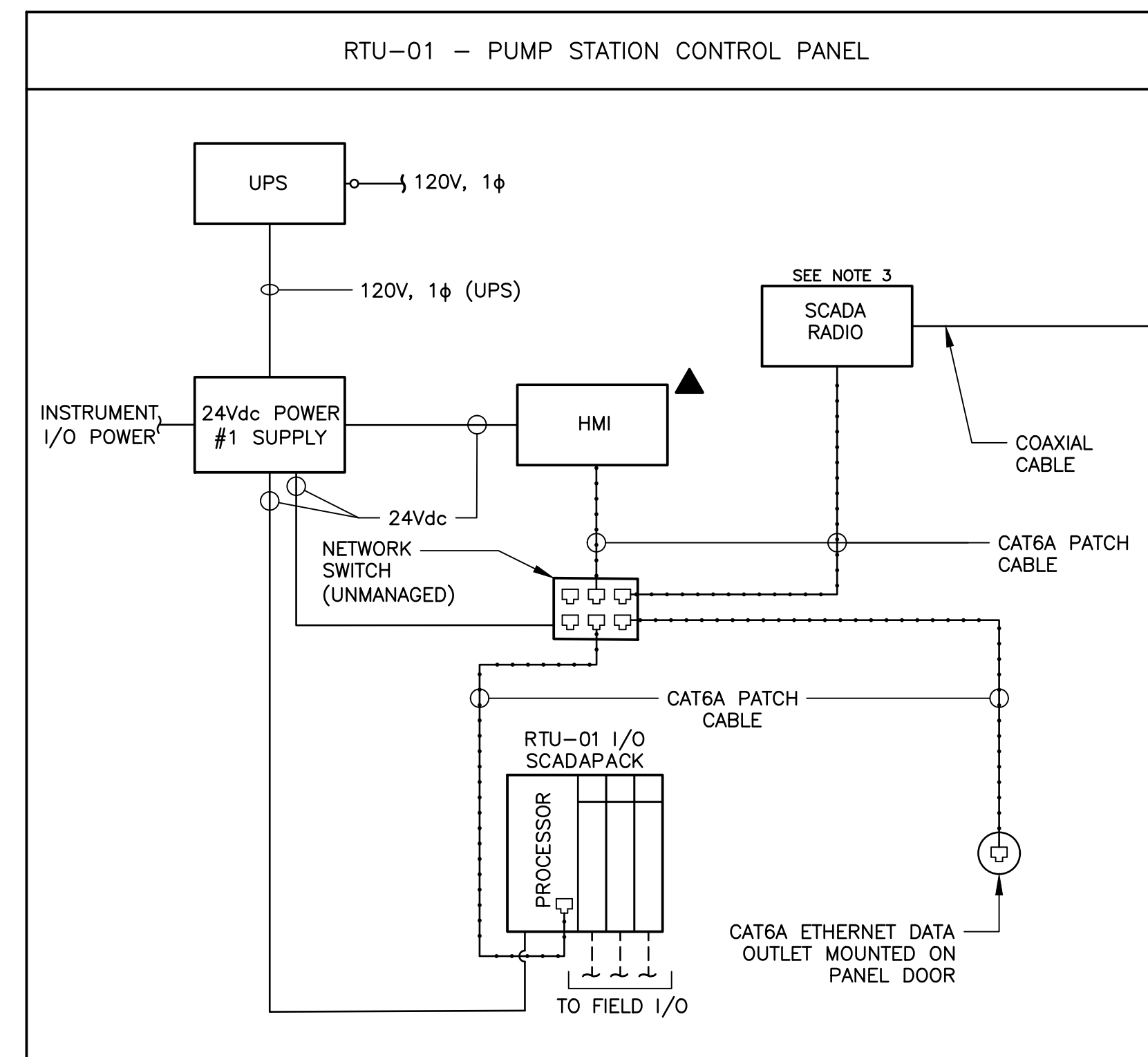
4 I/O LIST—RTU PANEL
NTS



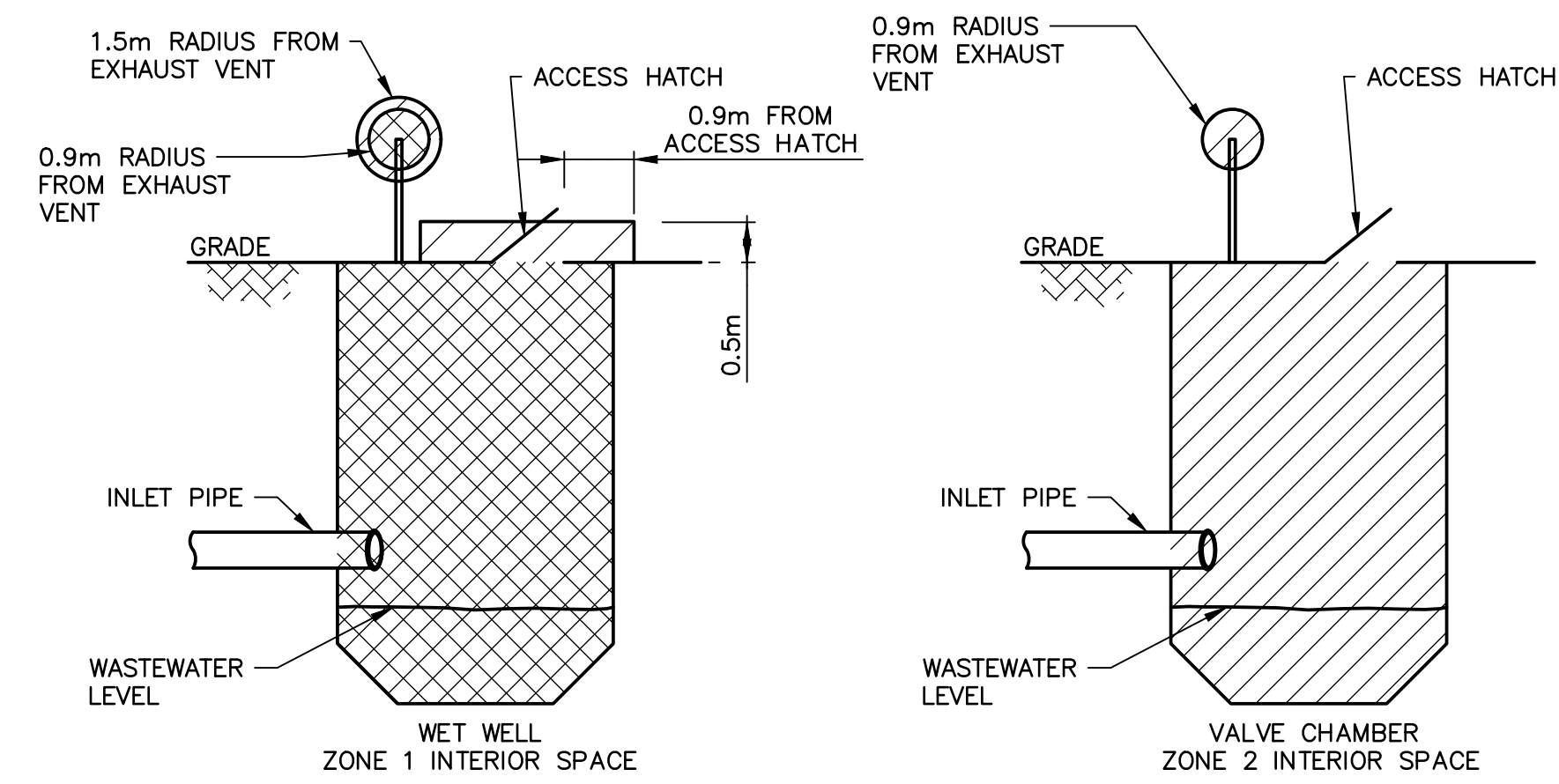
A BLOCK DIAGRAM—PUMP CONTROL PANEL
NTS



2 SCHEMATIC—PUMP MONITORING CONTROL PANEL
NTS



B BLOCK DIAGRAM—PUMP CONTROL PANEL RTU
NTS



ELECTRICAL INSTALLATIONS IN HAZARDOUS AREAS

- THE PUMP STATION WET WELL IS DESIGNATED AS A ZONE 1 GAS GROUP IIA AND IIB, TEMPERATURE CODE T3 HAZARDOUS AREA. A ZONE 2 GAS GROUP IIA AND IIB, TEMPERATURE CODE T3 HAZARDOUS AREA EXTENDS 0.5m ABOVE EACH WET WELL ACCESS HATCH AND 0.9m HORIZONTALLY FROM EACH WET WELL ACCESS HATCH.
- THE AREA WITHIN A 0.9m RADIUS FROM A WET WELL VENT PIPE SHALL BE DESIGNATED AS A ZONE 1 HAZARDOUS AREA. A ZONE 2 HAZARDOUS AREA EXTENDS FROM 0.9m RADIUS TO 1.5m RADIUS FROM THE WET WELL VENT PIPE.
- ALL ELECTRICAL PENETRATIONS FROM A NON-HAZARDOUS AREA TO A HAZARDOUS AREA SHALL BE SEALED AND MADE GAS TIGHT.
- ELECTRICAL INSTALLATIONS IN HAZARDOUS AREAS SHALL BE IN ACCORDANCE WITH SECTION 18 OF THE CANADIAN ELECTRICAL CODE FOR THE SPECIFIED CLASSIFICATION. THESE AREAS CONTAIN HYDROGEN SULPHIDE (NORTH AMERICAN GAS GROUP C, IES GAS GROUP IIB) AND METHANE (NORTH AMERICAN GAS GROUP D, IES GAS GROUP IIA) GASES.
- ZONE 1 AND 2 HAZARDOUS AREAS ARE A CATEGORY 2 LOCATION IN ACCORDANCE WITH SECTION 22 OF THE CANADIAN ELECTRICAL CODE AND THE ELECTRICAL INSTALLATION SHALL BE COMPLETED AS PER THE REQUIREMENTS OF A CATEGORY 2 LOCATION.
- BELOW GRADE VALVE & FLOW METER CHAMBER IS DESIGNATED AS A ZONE 2 GAS GROUP IIA AND IIB, TEMPERATURE CODE T3 HAZARDOUS AREA.

3 DETAIL—HAZARDOUS AREA CLASSIFICATION
NTS

- NOTES**
- UNLESS OTHERWISE NOTED, ELECTRICAL EQUIPMENT IS NEW.
 - FLOAT WIRES TO BE 4X1C #14 RW90. LEVEL SENSOR WIRES TO BE #16 SHIELDED TWISTED PAIR.
 - SCADA RADIO AND ANTENNA TO BE INSTALLED AND SUPPLIED BY CONTRACTOR. REFER TO SECTIONS 26 91 00 FOR SPECIFICATIONS.
 - PUMP MANUFACTURER SUPPLIED MOTOR PROTECTION RELAY SHALL BE SUPPLIED LOOSE TO THE CONTRACTOR FOR FIELD INSTALLATION.
 - SUPPLY, INSTALL AND SIZE CONDUITS, CONDUIT FITTINGS AND JUNCTION BOXES PER THE CANADIAN ELECTRICAL CODE. THE CONTRACTOR MAY COMBINE CONDUITS OF SIMILAR CIRCUITS AS DICTATED BY FIELD CONDITIONS AND THE CANADIAN ELECTRICAL CODE TO REDUCE THE NUMBER OF CONDUITS. THE MAXIMUM INSTRUMENTATION/CONTROL CONDUIT SIZE IS 53MM DIA.

No.	Description	Date	By
0	ISSUED FOR TENDER	JUL 03/25	RWM

Revision or Issue

Queens Coast
SEEK NATURE'S REWARDS

REGION OF QUEENS MUNICIPALITY
MOUNT PLEASANT WATER AND SANITARY SERVICING EXTENSION

ELECTRICAL

SCHEMATICS, BLOCK DIAGRAM, IO LIST & DETAILS

CBCL

Client No 241008.00	Contract No
Date FEB 2025	Scale AS NOTED
Designed DA	Drawn DA
Checked DK	Approved
Sheet No 3	of 3
Drawing No E003	