

Saysutshun Island Cabin Infrastructure Detailed Design

ISSUED FOR REVIEW
OCTOBER 7, 2024
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LIST OF DRAWINGS

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C01	Legend
C02	Site Plan
C03	Tree Protection And Removals
C04	Watermain & Path
C05	Sanitary I
C06	Sanitary II
C07	Details

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SURVEY INFORMATION
 Prepared by: 3D Geomatics
 Coordinate System: UTM83-10
 Compilation Date: March 2024

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#	Date	Issue / Revision	App
A	2024-10-07	ISSUED FOR REVIEW	ND

Quality Control by	N Dewitt
Designed by	A. Williams
Drawn by	A. Williams

URBAN SYSTEMS
 Scale: NOT TO SCALE
 Sheet Number: 1 of 7
 Project Number: 5464.0001.02
 Drawing Number: C01
 Revision: A

Saysutshun Island Cabin
 Infrastructure Detailed Design
 Legend

- GENERAL NOTES:**
- ALL CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
 - CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATION OF THE VARIOUS PARTS OF THE WORK
 - LOCATIONS OF EXISTING UTILITIES AND SERVICES SHOWN ON THESE DRAWINGS ARE DERIVED FROM BC PARKS, AGENCY AS-BUILTS, AND SURVEY INFORMATION. NO GUARANTEE IS MADE AS TO THEIR ACCURACY. CONTRACTOR TO CONFIRM LOCATION OF ALL EXISTING UTILITIES AND SERVICES IN THE FIELD PRIOR TO CONSTRUCTION.
 - ALL ROADS AND JOB SITE TO BE KEPT CLEAN OF DEBRIS AND CONSTRUCTION MATERIAL ON A REGULAR BASIS..
 - CAREFULLY RELOCATE EXISTING STREET FURNITURE, TRAFFIC SIGNS AND SITE FEATURES TO ACCOMMODATE CONSTRUCTION WORK. ALL EXISTING WORKS TO BE RETURNED TO AS FOUND OR BETTER CONDITION.
 - CONTACT BC ONE CALL (1-800-474-8886) BC HYDRO, TELUS, SHAW CABLE, FORTIS GAS UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
 - MAINTAIN PEDESTRIAN ACCESS TO ALL BUILDINGS AND BUSINESSES AT ALL TIMES. SCHEDULE WORK TO MINIMIZE DISRUPTION. CONTRACTOR TO COORDINATE WITH BUSINESSES AFFECTED BY THE WORK FOR ALTERNATE ACCESS IF REQUIRED.
 - DIG WITH EXTREME CARE AND CAUTION AROUND FIBRE OPTIC DUCTS AND SERVICES.
 - ALL SURFACE RESTORATION WORK TO MATCH EXISTING SURFACE TREATMENTS UNLESS OTHERWISE NOTED.
- TRAFFIC CONTROL NOTES:**
- ALL TRAFFIC CONTROL TO CONFORM TO MOST CURRENT WORKSAFE BC, CONTRACT DRAWINGS AND SPECIFICATIONS.
 - PROVIDE SIGNAGE, BARRICADES AND ILLUMINATION, AND DETOUR ROUTING AS REQUIRED TO MAINTAIN PEDESTRIAN FLOW AND ACCESS.
 - ALL FLAG PERSONS TO HAVE PROOF OF CERTIFICATION.
 - AT THE END OF THE DAY, ANY EXCAVATION SHALL BE WELL SIGNED AND PROTECTED.
 - MAINTAIN SAFE PEDESTRIAN WALKWAYS AROUND WORK ZONE AND DELINEATE WITH TEMPORARY FENCING IF REQUIRED.
- WATERWORKS NOTES:**
- CONTRACTOR SHALL LOCATE TIE-IN POINTS AND LOCATIONS OF EXISTING SERVICES AT CROSSOVER POINTS PRIOR TO ANY CONSTRUCTION TO VERIFY INVERT AND LOCATION.
 - ALL TIE-INS TO EXISTING WATERMAIN SHALL BE PERFORMED IN THE PRESENCE OF THE CONTRACT ADMINISTRATOR AND BC PARKS OPERATORS. THE CONTRACTOR SHALL PROVIDE THREE BUSINESS DAYS NOTICE TO THE CONTRACT ADMINISTRATOR PRIOR TO THE PROPOSED TIE-IN.
 - MIN WATERMAIN GRADE IS 0.10%.
 - VALVES AND HYDRANTS OF EXISTING SYSTEM ONLY TO BE OPERATED WITH THE PERMISSION OF THE CONTRACT ADMINISTRATOR.
 - WATERMAIN TO BE HDPE DR 17 (125 PSI) PE 4710 UNLESS OTHERWISE NOTED.
 - VALVES AND LEADS AS NOTED IN CONTRACT DRAWINGS AND SPECIFICATIONS.
 - ALL FITTINGS TO BE PVC FABRICATED.
 - DURING CONSTRUCTION AND AT ANY TIME PRIOR TO ACCEPTANCE AND PRESSURIZING OF MAINS, THE CONTRACTOR SHALL BAG OR PLACE A 0.3m SQUARE 20mm SHEET OF PLYWOOD OVER THE PUMPER NOZZLE OF THE HYDRANT TO INDICATE THE HYDRANT IS NOT IN USE.
 - WATERMAIN TO BE CONSTRUCTED A MINIMUM OF 0.5m ABOVE STORM OR SANITARY SEWERS AND MAINTAIN 3.0m HORIZONTAL CLEARANCE. IN AREAS WHERE LESS THAN 0.5m VERTICAL OR 3.0m HORIZONTAL CLEARANCE CAN NOT BE MAINTAINED, ALL JOINTS TO BE HEAT SHRINK WRAPPED OR TAPE WRAPPED AS PER MINISTRY OF HEALTH STANDARDS; ANS/AWWA C214 FACTORY APPLIED), ANS/AWWA C209 (FIELD APPLIED) ANS/AWWA C217-90 (PETROLATUM TAPE) ALL TO MINISTRY OF HEALTH STANDARDS. WATERMAIN CROSSINGS OF STORM OR SANITARY SEWER TO BE MADE AT MIDPOINT OF PIPE.
 - CROSSING OF UTILITIES OTHER THAN STORM OR SANITARY TO HAVE A MINIMUM OF 150mm CLEARANCE.
 - GRANULAR PIPE BEDDING AND SURROUND MATERIAL PER CONTRACT DRAWINGS AND SPECIFICATIONS.
 - EXCAVATION AND RESTORATION TO BE COMPLETED BY CONTRACTOR PER REGULATORY AUTHORITY REQUIREMENTS AND CONTRACT DOCUMENTS. CONTRACTOR TO GIVE NOTICE PRIOR TO COMPLETING WORKS.
 - CONTRACTOR TO PROVIDE TESTING PLAN TO CONSULTANT c/w MARKED UP DRAWINGS SHOWING TEST POINTS ONE WEEK PRIOR TO TESTING. ALL MAINS TO BE FLUSHED IN THE PRESENCE OF CONSULTANT PRIOR TO COMMENCING TESTING.
 - PRESSURE TESTING, CHLORINATION AND DISINFECTION TESTING SHALL BE PERFORMED BY CONTRACTOR TO STANDARDS NOTED IN CONTRACT SPECIFICATIONS AND TO THE SATISFACTION OF THE CONSULTANT. TEST PRESSURE SHALL BE THE GREATER OF 1.5 TIMES OPERATING PRESSURE OR 1380kPa (200psi).
 - MINIMUM COVER ON WATERMAIN IS 600mm.
 - EXCAVATION AND RESTORATION FOR WATERMAIN TIE-IN FROM EX WATERMAIN TO PROPERTY LINE TO BE COMPLETED BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY PAVEMENT AND BOULEVARD TO THE PRE-CONSTRUCTION CONDITION OR BETTER.
 - JOINT DEFLECTIONS NOT TO EXCEED HALF THE MANUFACTURE'S RECOMMENDED MAXIMUM DEFLECTION.
- SANITARY AND STORM NOTES:**
- SANITARY SEWERS TO BE PVC SDR 35.
 - CONTRACTOR TO ENSURE TESTING OF SEWER MAINS AND LATERALS TO BE PERFORMED IN THE PRESENCE OF THE SITE INSPECTOR. CONTRACTOR TO PROVIDE MINIMUM OF 48 HOURS NOTICE. ALL MAINS AND SERVICES ARE TO BE TESTED AS PER STANDARDS NOTED IN CONTRACT SPECIFICATIONS WITH THE RESULTS FORWARDED TO THE ENGINEER.
 - CONTRACTOR TO PROVIDE TEMPORARY BYPASS AND RECONNECTION OF ANY SERVICES DISRUPTED BY CONSTRUCTION ACTIVITIES.
 - ALL SEWER MAINS AND LATERALS TO BE CCTV INSPECTED. CCTV INSPECTIONS TO BE ARRANGED BY CONTRACTOR AT CONTRACTOR'S EXPENSE. CONTRACTOR TO FORWARD VIDEO FILES TO THE ENGINEER WITHIN TWO WEEKS OF INSPECTION.
 - GRANULAR PIPE BEDDING AND SURROUND MATERIAL PER CONTRACT DRAWINGS AND SPECIFICATIONS. TEST RESULTS ARE TO BE FORWARDED TO THE ENGINEER.
 - MANHOLES AS NOTED IN CONTRACT DRAWINGS AND SPECIFICATIONS.
 - EXCAVATION AND SURFACE RESTORATION TO BE COMPLETED BY CONTRACTOR PER REGULATORY AUTHORITY REQUIREMENTS, AND CONTRACT DOCUMENTS. CONTRACTOR TO GIVE NOTICE PRIOR TO COMPLETING WORKS.
 - ALL STORM SEWER JOINTS SHALL HAVE GASKETS.
 - INVERT OF SERVICE CONNECTIONS TO MAIN TO MATCH CROWN OF MAIN.
 - MINIMUM GRADE ON SERVICE CONNECTIONS TO BE 2%, UNLESS NOTED OTHERWISE.
- SEPTIC TANK NOTES:**
- NEW SEPTIC TANK SHOP DRAWINGS TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
 - NEW SEPTIC TANK TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SUBGRADE, BASE, AND BACKFILL IS ACCEPTABLE AND PROPERLY COMPACTED AS PER MANUFACTURER'S RECOMMENDATIONS. ALL BACKFILL MATERIAL TO BE FREE OF ORGANICS AND DELETERIOUS MATERIAL. BACKFILL MUST BE PROPERLY COMPACTED TO ALLOW FOR VEHICLE ACCESS.
 - TEMPORARY SLOPES TO BE NO LESS THAN 1H:1V.
 - ALL CONNECTION THROUGH TANK AND ANY HOLES OR DEFECTS TO BE SEALED WITH NON SHRINK GROUT AND APPROVED BY ENGINEER PRIOR TO BACKFILL.
 - TANK TO BE HYDRO TESTED AS PER SEWERAGE STANDARD PRACTICE MANUAL, LATEST VERSION.
 - AT LEAST 2 600mm RIPPED PVC RISERS, LENGTH TO BE ADJUSTED TO FINAL GROUND ELEVATION c/w LID AS SPECIFIED BY MANUFACTURER. CONNECTION TO TANK ROOF GROUTED CONTINUOUSLY AROUND RISER BOTTOM FOR WATERTIGHT SEAL.
 - ALL ACCESS POINTS TO BE SECURED WITH A LOCKABLE SYSTEM.
 - FINAL GRADING TO ENSURE SURFACE WATER RUNOFF IS DIRECTED AWAY FROM TANK.
- RECORD DRAWINGS NOTES:**
- THE CONTRACTOR IS TO PROVIDE A DETAILED 3D TOPOGRAPHIC SURVEY OF ALL CIVIL WORKS INCLUDING SUBSURFACE INFRASTRUCTURE.
 - THE CONTRACTOR IS TO MAINTAIN A FIELD SET OF DRAWINGS ON-SITE AND KEEP REDLINE MARKUP RECORD OF ALL CONSTRUCTION CONDITIONS.
- ENVIRONMENTAL NOTES:**
- REFER TO CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP) - SAYSUTSHUN ISLAND RENTAL CABIN DETAILED DESIGN AND INSTALLATIONS, DATED JULY 2024 TO ADDRESS ENVIRONMENTAL CONCERNS AND MITIGATION MEASURES.
 - ENVIRONMENTAL MONITOR TO BE CONTRACTED TO IMPLEMENT THE CEMP AND OVERSEE WORKS TO ENSURE ENVIRONMENTAL IMPACTS ARE MINIMIZED THROUGH IMPLEMENTATION AND MAINTENANCE OF APPROPRIATE MITIGATION MEASURES.
 - REFER TO PROJECT TIMING SECTION OF CEMP FOR IMPORTANT CONSTRUCTION SCHEDULING CONSIDERATIONS.

- PROTECTION AND TREE REMOVAL NOTES:**
- REFER TO TREE PROTECTION PLAN DATED JULY 15, 2024 FOR TREE REMOVAL, TREE PROTECTION, PRUNING DIRECTION, AND ALL WORK IN AND AROUND EXISTING TREES.
 - TREE TAGS HAVE BEEN LABELED TO MATCH TREE PROTECTION PLAN
 - ONLY TREES MARKED FOR REMOVAL HAVE BEEN SHOWN IN RED. REFER TO TREE PROTECTION PLAN TO IDENTIFY TREES MARKED FOR WILDLIFE, ADVANCED TREE RISK ASSESSMENT, OR OTHER.
 - IF TREE LABELS DIFFER BETWEEN DRAWINGS AND TREE PROTECTION PLAN, REFER TO TREE PROTECTION PLAN FOR RECOMMENDED ACTION.
 - IF TREES DO NOT HAVE TAG/LABEL, ASSUME TREE IS TO BE RETAINED. CONTACT ADMINISTRATOR AND ARBORIST IF UNTAGGED TREE REQUIRE REMOVAL.
 - TREE PROTECTION METHOD AND INSTALLATION SHALL BE APPROVED BY CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
 - TREE CLEARING TO TAKE PLACE OUTSIDE OF THE BREEDING BIRD WINDOW (MAR 15 - AUG 31). IF CLEARING IS REQUIRED WITHIN THIS PERIOD, THE CONTRACTOR SHALL ENGAGE A QUALIFIED ENVIRONMENTAL PROFESSIONAL TO CONDUCT THE NEST SURVEY. IF AN ACTIVE NEST IS OBSERVED, CLEARINGS OF VEGETATION MAY BE DELAYED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE APPROPRIATE PERMITS AND APPROVALS ARE IN PLACE FOR ALL ACTIVITIES IMPACTING TREES.
 - TREES IDENTIFIED IN THE DRAWINGS FOR REMOVAL SHALL BE TAKEN DOWN IN A MANNER THAT DOES NOT IMPACT ADJACENT PROTECTION TREES AND VEGETATION.
 - PRUNING
 - FOR ALL WORK PERTAINING TO TREE BRANCH AND SHRUB PRUNING TO SUPPLEMENTAL SPECIFICATION SECTION - PRUNING.
 - PRIOR TO PRUNING WORK BEING UNDERTAKEN, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE WITH THE CONSULTANT AND PROJECT ARBORIST TO IDENTIFY OVERHANGING AND ENCRANCHING BRANCHES WITHIN THE WORK ZONE TO BE PRUNED FOR CONSTRUCTION AND TRAIL CLEARANCE REQUIREMENTS.
 - VERTICAL CLEARANCE ABOVE THE PATH FINISHED GRADE SHALL BE 2.5m.
 - EXCAVATION, TRENCHING, AND ROOT PRUNING
 - FOR ALL WORK PERTAINING TO EXCAVATION, TRENCHING, AND ROOT PRUNING, REFER TO ARBORIST REPORT FOR REQUIREMENTS.
 - SELECTIVE ROOT PRUNING SHALL BE CARRIED OUT TO THE FULL DEPTH OF REQUIRED EXCAVATION IN ALL AREAS WHERE EXCAVATION AND GRADING IS REQUIRED TO OCCUR WITHIN THE TREE PROTECTION ZONE.



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SURVEY INFORMATION
 Prepared by: 3D Geomatics
 Coordinate System: UTM83-10
 Compilation Date: March 2024

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Professional Seals

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A	2024-10-07	ISSUED FOR REVIEW	ND

Scale
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 0 15 30m

Quality Control by: N Dewitt
 Designed by: A Williams
 Drawn by: A Williams

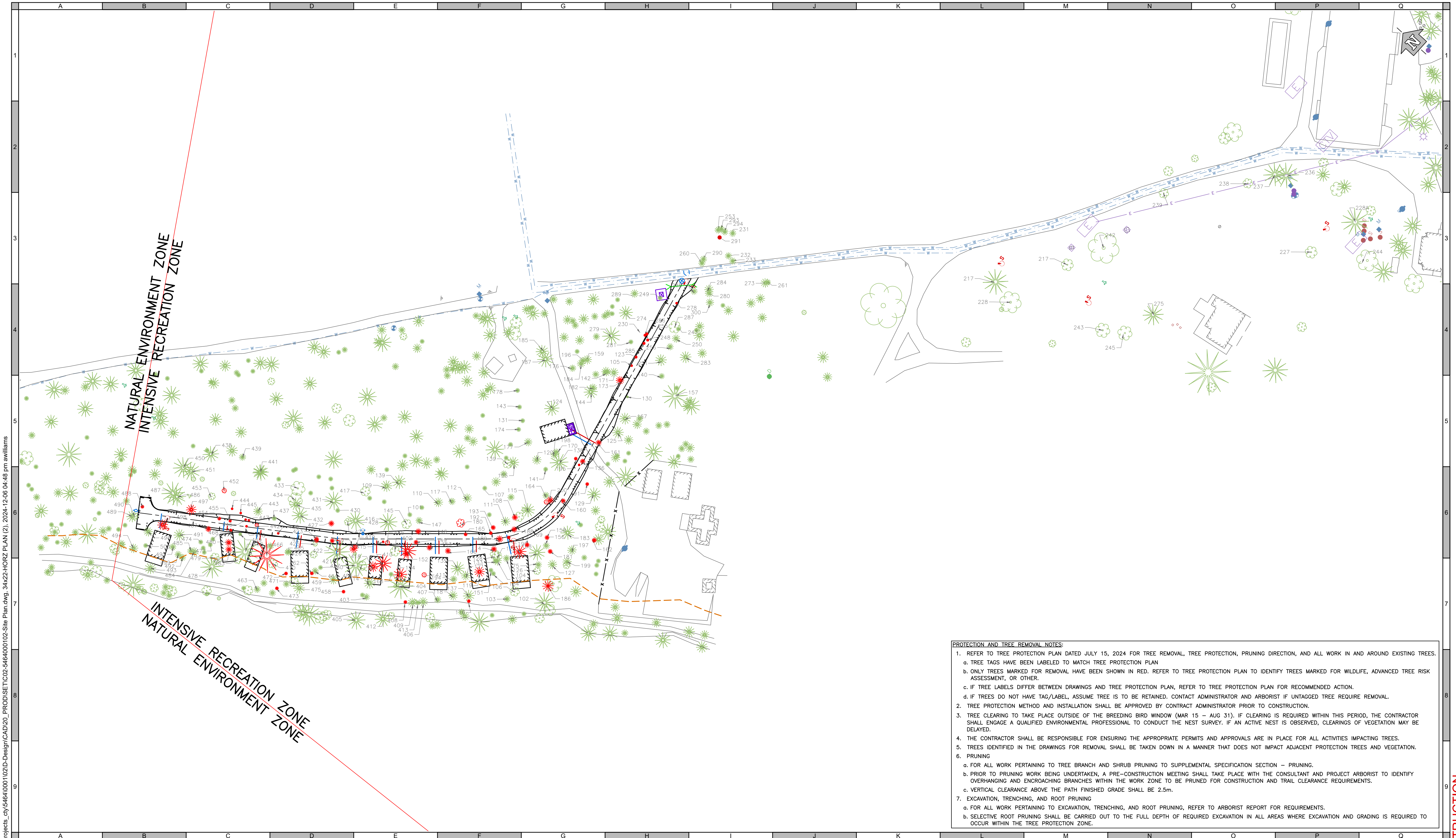
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Saysutshun Island Cabin
 Infrastructure Detailed Design
 Site Plan

Sheet Number: 2 of 7
 Project Number: 5464.0001.02
 Drawing Number: C02
 Revision: A

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PROTECTION AND TREE REMOVAL NOTES:

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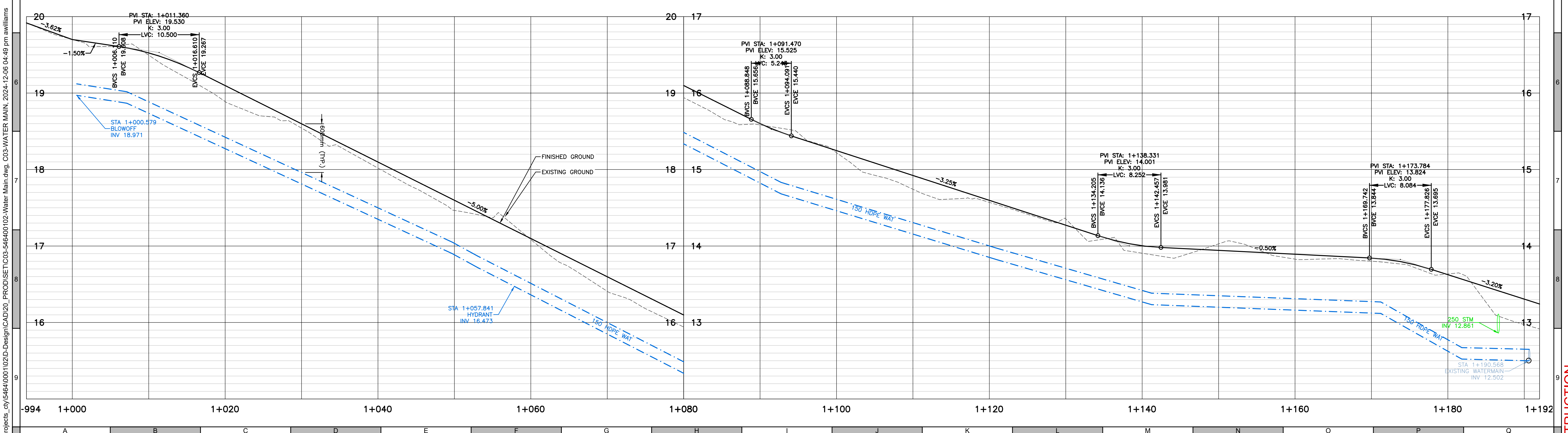
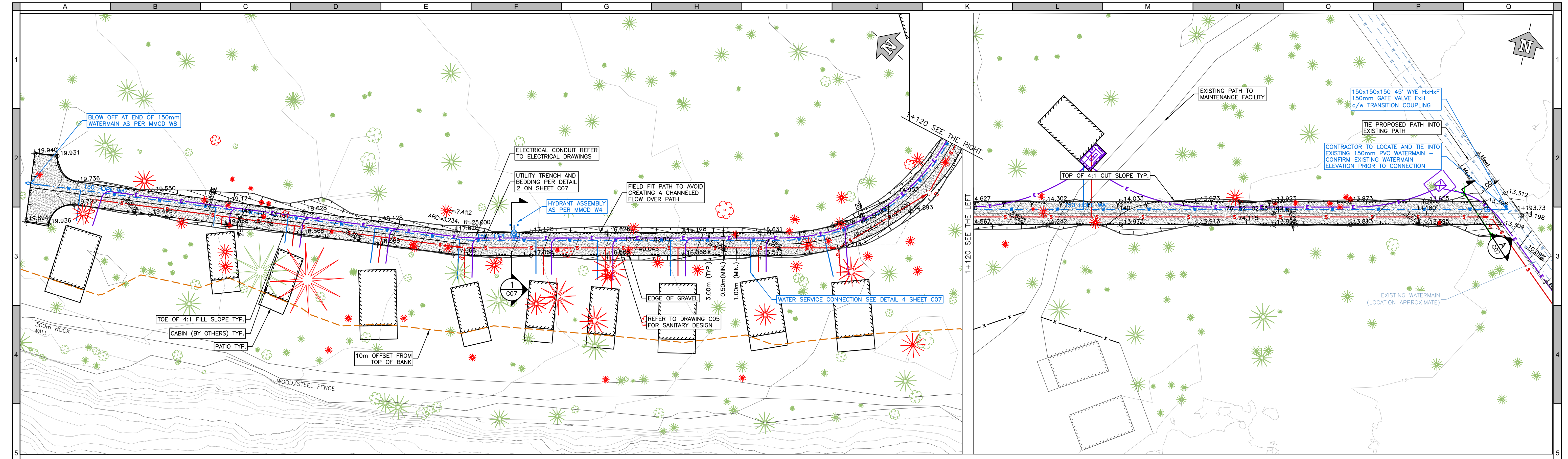
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Scale
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Saysutshun Island Cabin
 Infrastructure Detailed Design
 Tree Protection And Removals

Sheet Number: 3 of 7
 Project Number: 5464.0001.02
 Drawing Number: C03
 Revision: A

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Scale	1:250H 0 5 10m
	1:25V 0 0.5 1m
Quality Control by	N Dewitt
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Drawn by	A. Williams

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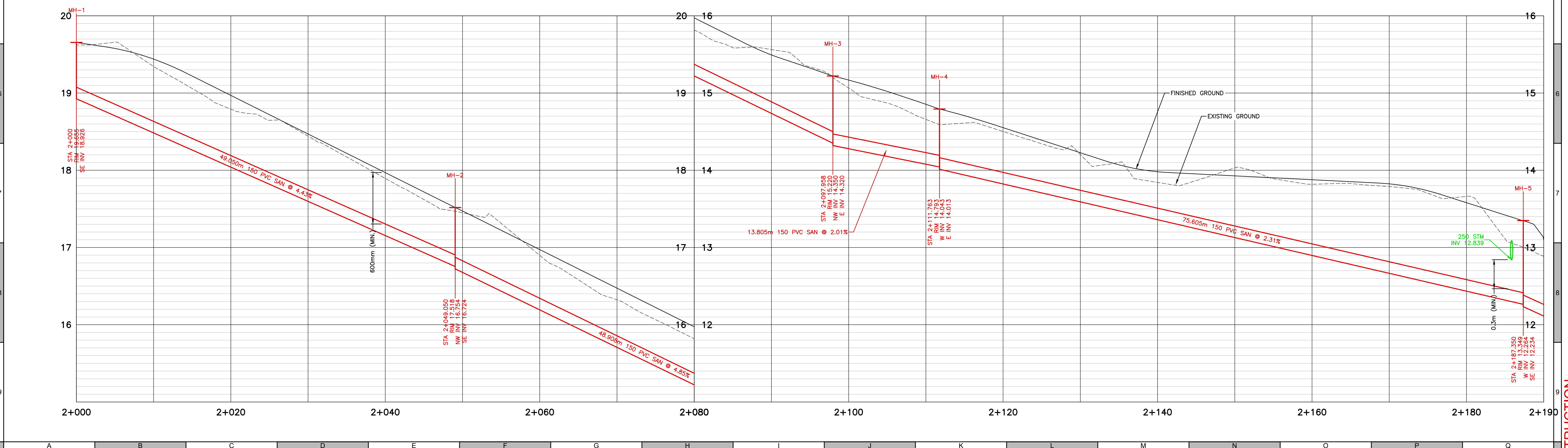
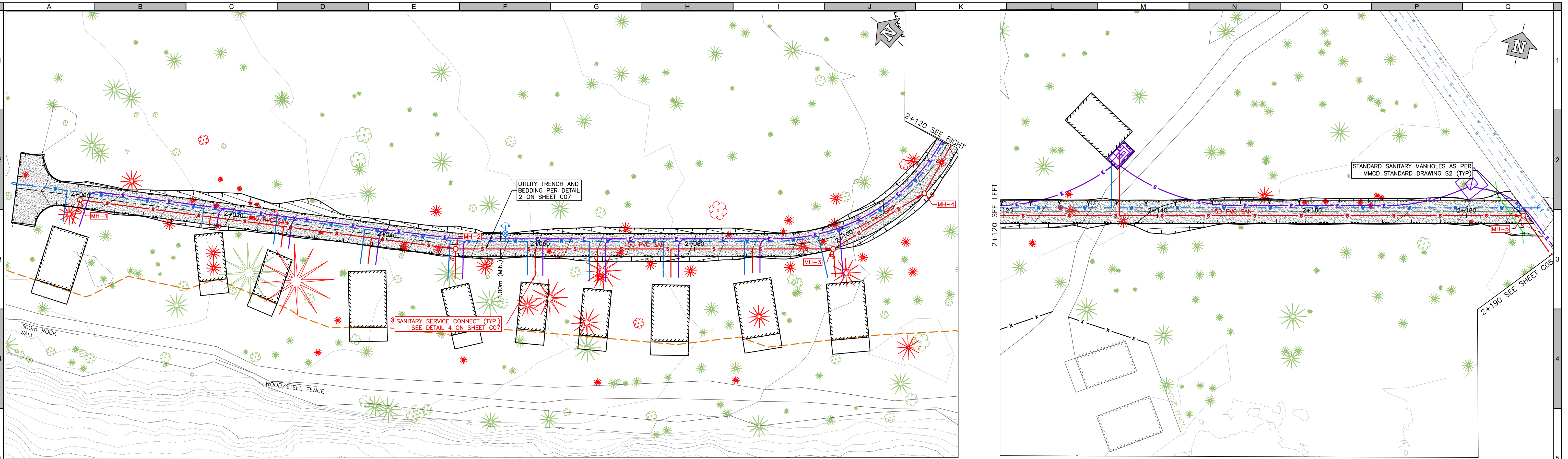
Saysutshun Island Cabin Infrastructure Detailed Design
 Watermain & Path
 Station 1+000 to 1+200

Sheet Number	4 of 7
Project Number	5464.0001.02
Drawing Number	C04
Revision	A

ANSI expand D (34.00 x 22.00 Inches) 25mm

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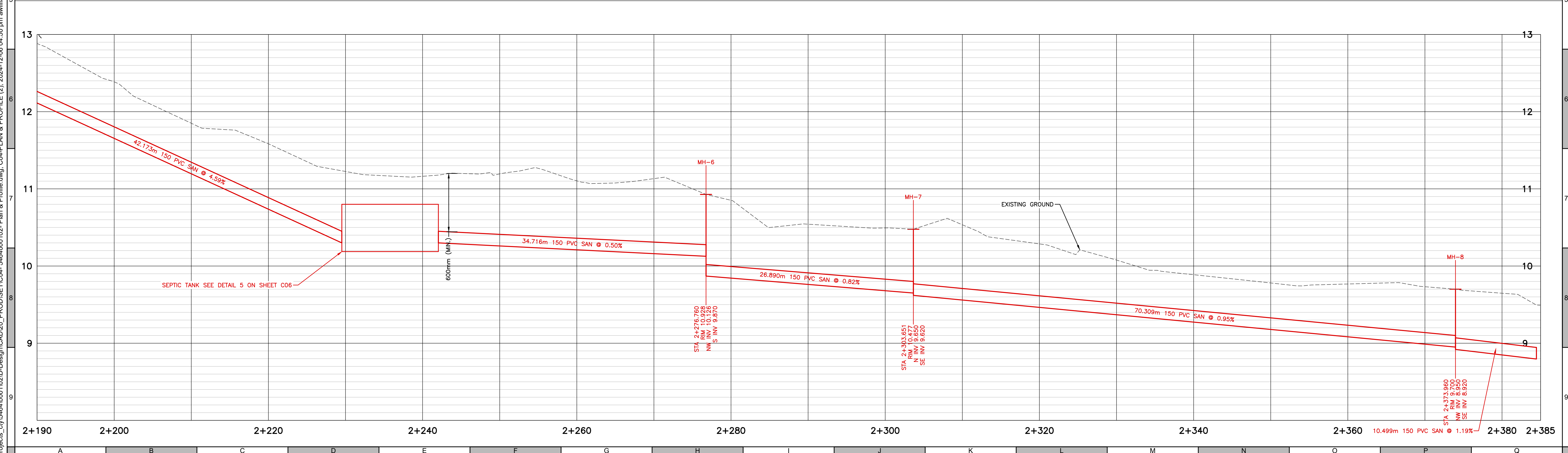
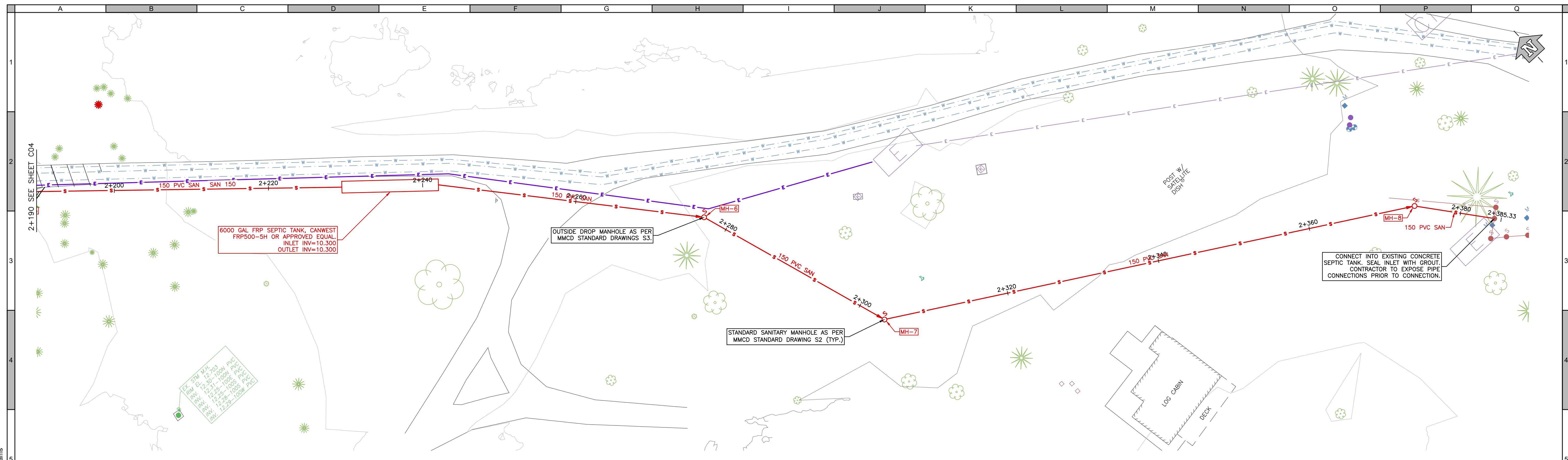
Quality Control by: N Dewitt
Designed by: A Williams
Drawn by: A Williams

URBAN SYSTEMS

Saysutshun Island Cabin
Infrastructure Detailed Design
Sanitary I
Station 2+000 to 2+190

Sheet Number: 5 of 7
Project Number: 5464.0001.02
Drawing Number: C05
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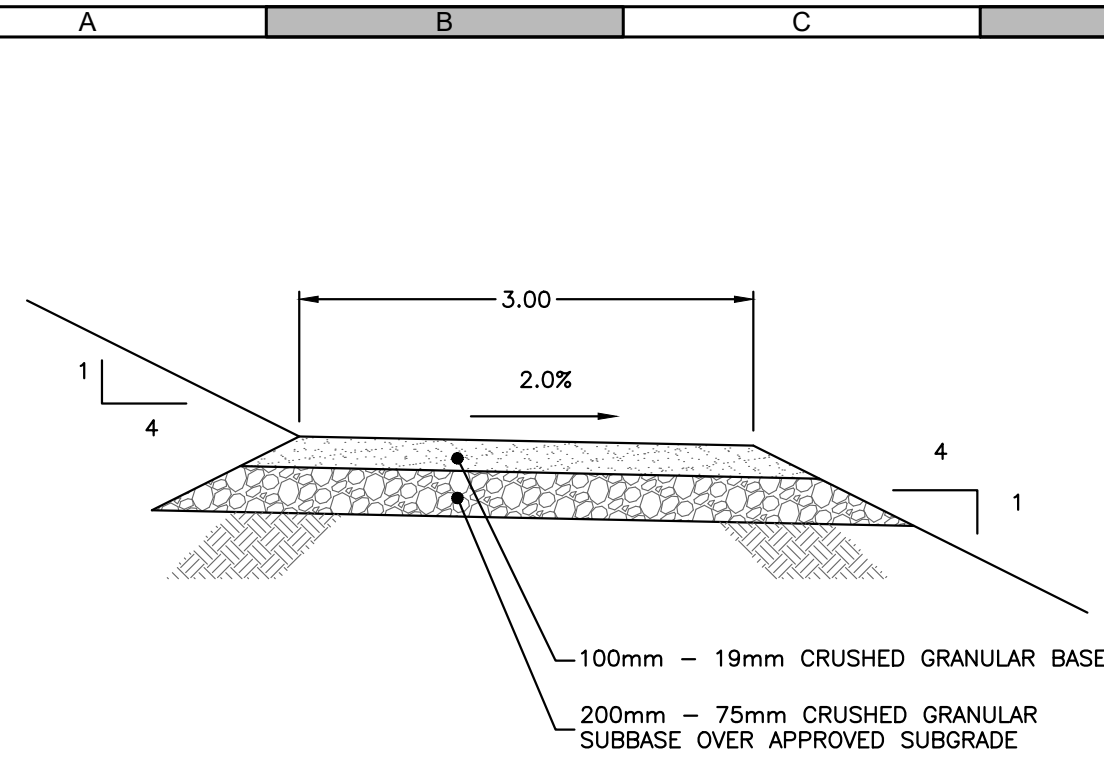
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Saysutshun Island Cabin Infrastructure Detailed Design
 Sanitary II
 Station 2+190 to 2+390

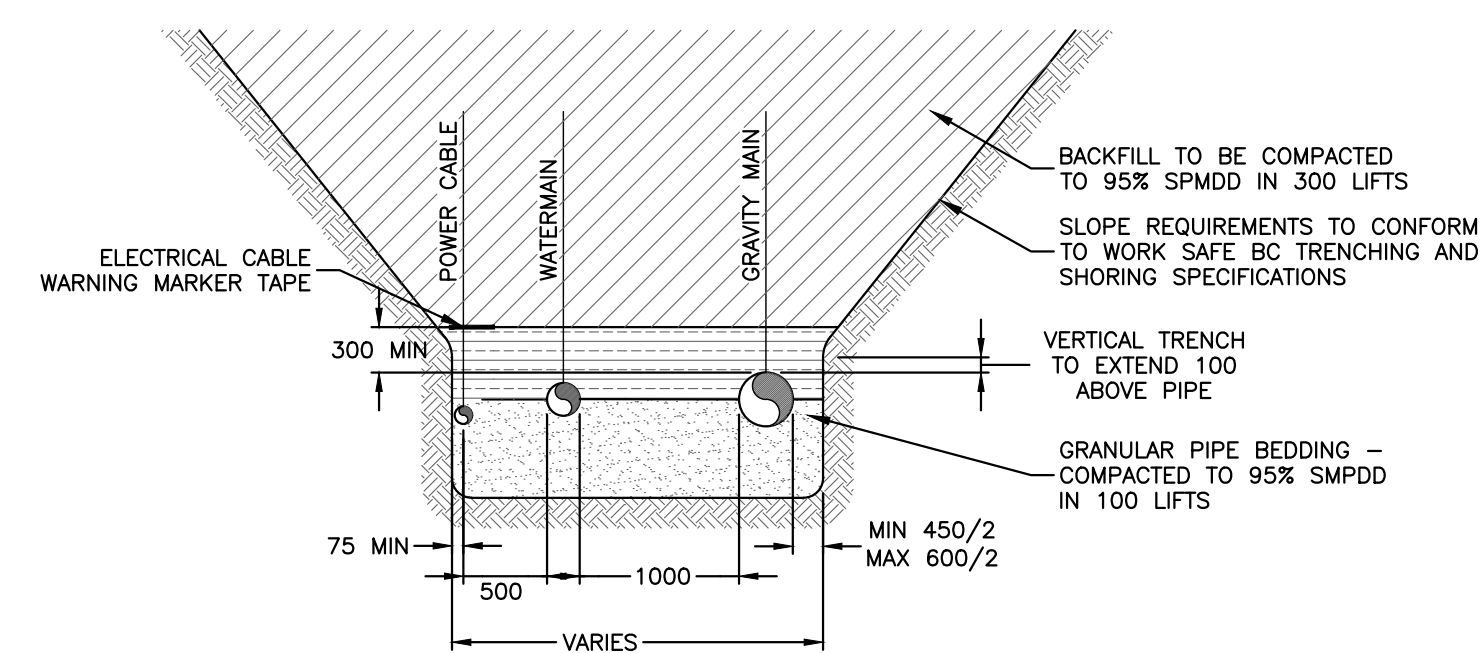
Sheet Number: 6 of 7
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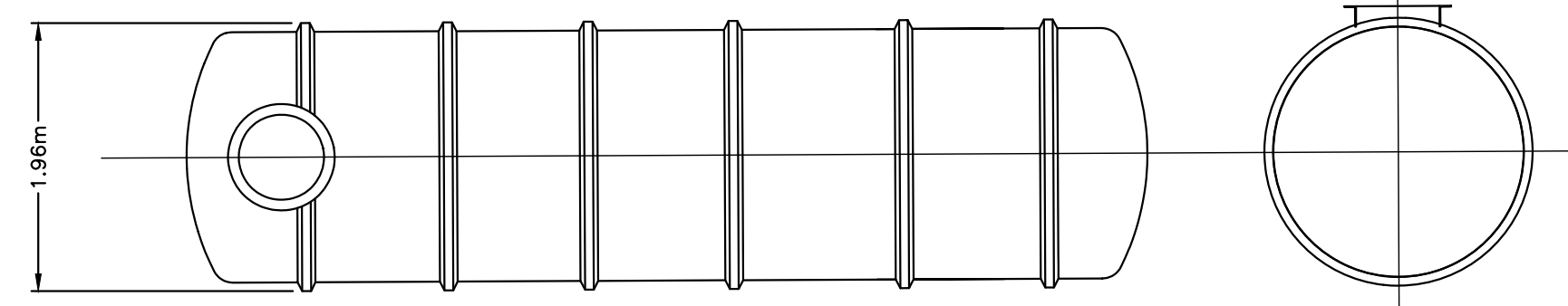
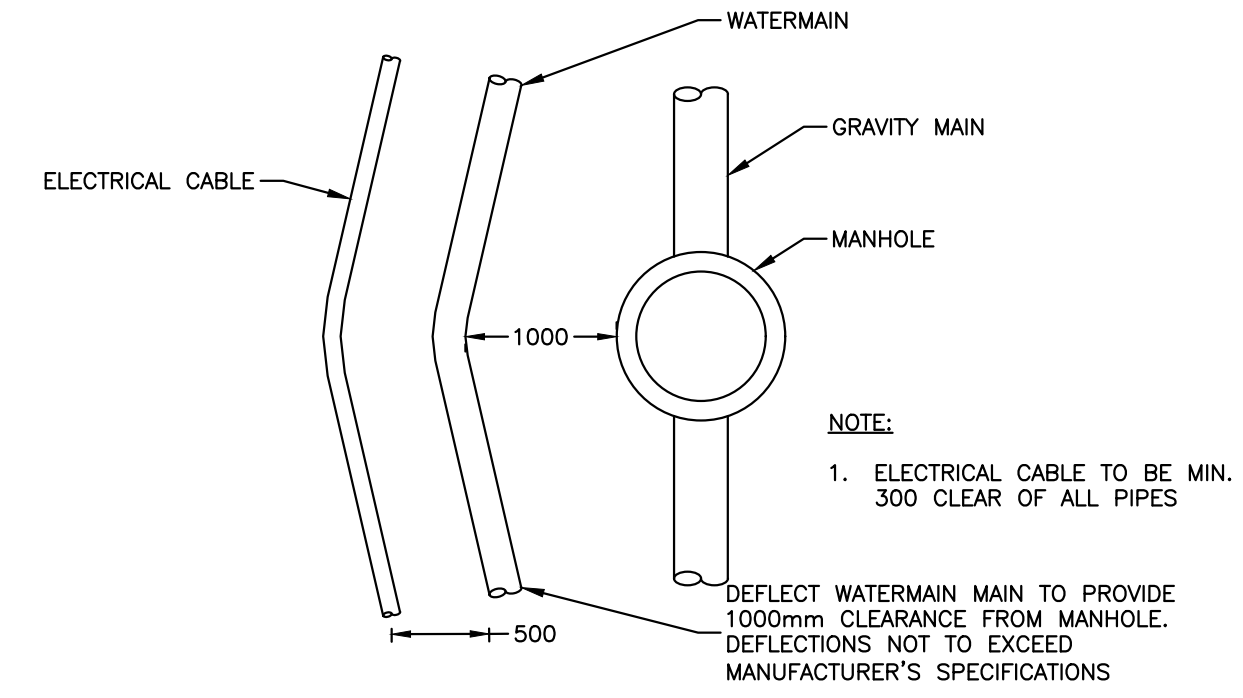
\\us1urbansystems.com\projects\projects_cy\546410001\02\Design\CAD\20_Plan & Profile.dwg - C04-PLAN & PROFILE (2) - 2024-12-06 04:50 pm avilliams



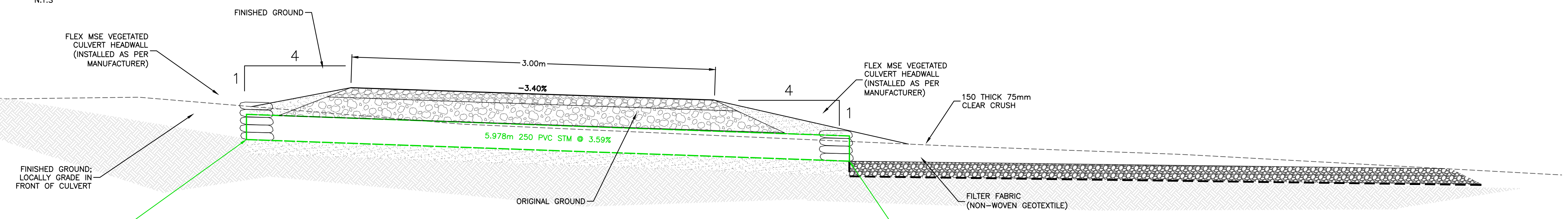
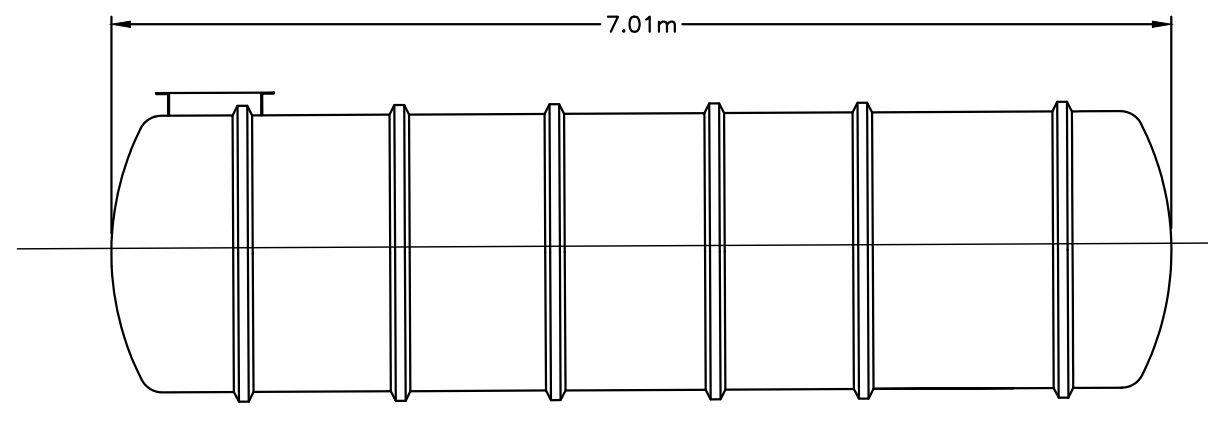
1 TYPICAL PATH SECTION
N.T.S.



2 POWER CABLE, WATERMAIN & GRAVITY MAIN IN COMMON TRENCH
N.T.S.



5 SEPTIC TANK
N.T.S.



A CULVERT CROSSING
C03 AS SHOWN

USE "BELL-TITE" PLUGS AND CLAMPS

REDUCER TABLE VALUES BASED ON REDUCTION TO 150

CROSS

PIPE SIZE	100	150	200	250	300	400
1, 4, 11	0.2	0.4	0.7	1.0	1.45	1.9
3, 5, 7	0.3	0.55	0.9	1.45	2.05	2.7
2		0.25	0.5	0.75	1.65	2.3
6, 8	0.15	0.3	0.5	0.8	1.2	1.45
9	0.1	0.15	0.3	0.45	0.6	0.75
10	0.3	0.6	1.0	1.2	2.2	2.9

DESIGN ASSUMPTIONS
HYDRAULIC HEAD = 1.38 MPa
SOIL BEARING VALUE = 0.096 MPa
(MEDIUM SOFT CLAY)

FOR VERTICAL REACTION BLOCK SIZE SEE DIVISION 2-SITE WORK - SECTION 2C-PRESSURE MAINS AND APPURTENANCES

TEE (TAPPING OR STANDARD)

TEE

WYE

90° BEND

45° BEND

22-1/2° BEND AND 11-1/4° BEND

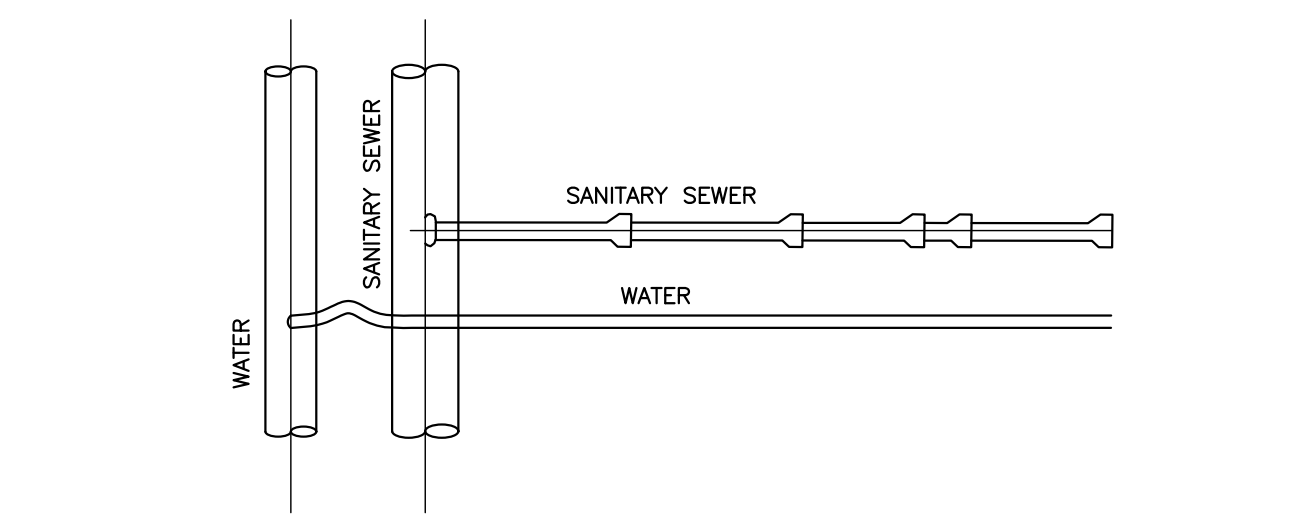
OFFSET BEND

USE "BELL-TITE" PLUG AND CLAMP

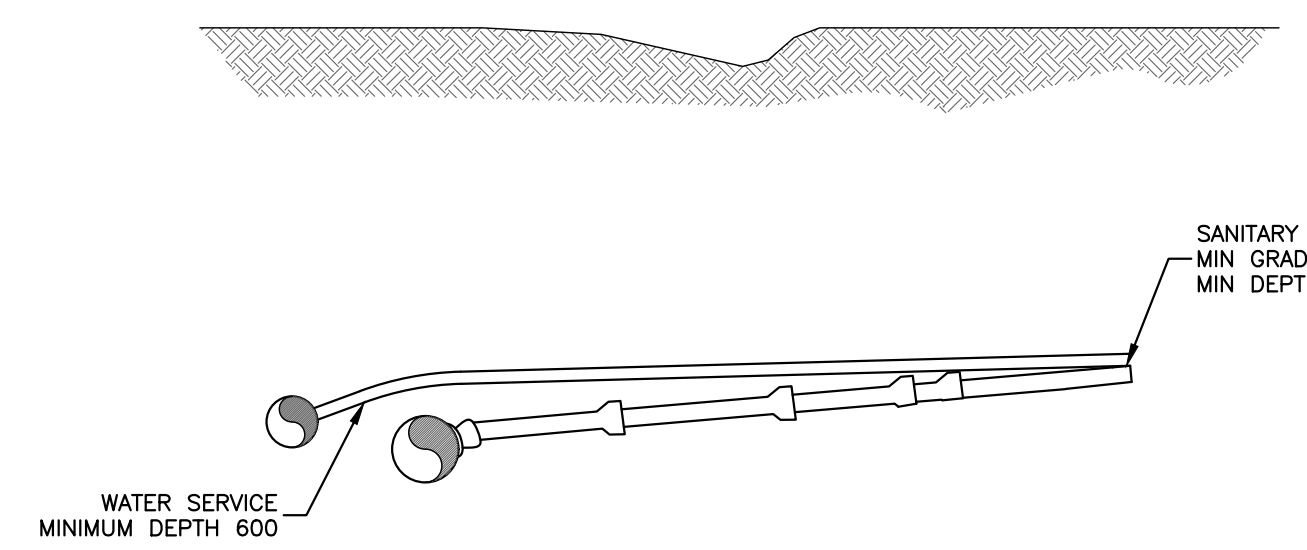
VERTICAL BEND

3 THRUST BLOCK
N.T.S.

GENERAL NOTE:
1. EXPOSED GEOTEXTILE SHALL BE TRIMMED BACK MIN 150mm AND BURIED.



PLAN



ELEVATION

4 WATER & SEWER SERVICES
N.T.S.

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SURVEY INFORMATION
Prepared by: 3D Geomatics
Coordinate System: UTM83-10
Compilation Date: March 2024

ISSUED FOR REVIEW
OCTOBER 7, 2024
urbansystems.ca

Professional Seals

#	Date	Issue / Revision	App
A	2024-10-07	ISSUED FOR REVIEW	ND

URBAN SYSTEMS

Scale: AS SHOWN

Quality Control by: N Dewitt, A Williams, A Williams
Designed by: A Williams
Drawn by: A Williams

Saysutshun Island Cabin Infrastructure Detailed Design
Details

Sheet Number: 7 of 7
Project Number: 5464.0001.02
Drawing Number: C07
Revision: A

NOT FOR CONSTRUCTION