

# DENNY ISLAND COMMUNITY WATER SYSTEM

ISSUED FOR  
TENDER  
FEBRUARY 5 2026  
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SITE LOCATION  
0m 50 100 150

## LIST OF DRAWINGS

- GENERAL
- C00

COVER
- C01

LEGEND
- C02

KEY PLAN
- C03

HYDRANT COVERAGE
- C04

NOTES
- C05

DETAILS
- C05A

DETAILS (2)
- PLAN & PROFILES
- C06

WATERMAIN - MARINE DRIVE
- C07

WATERMAIN - MARINE DRIVE
- C08

WATERMAIN - AIRPORT ROAD
- C09

WATERMAIN - SHEARWATER ROAD
- C10

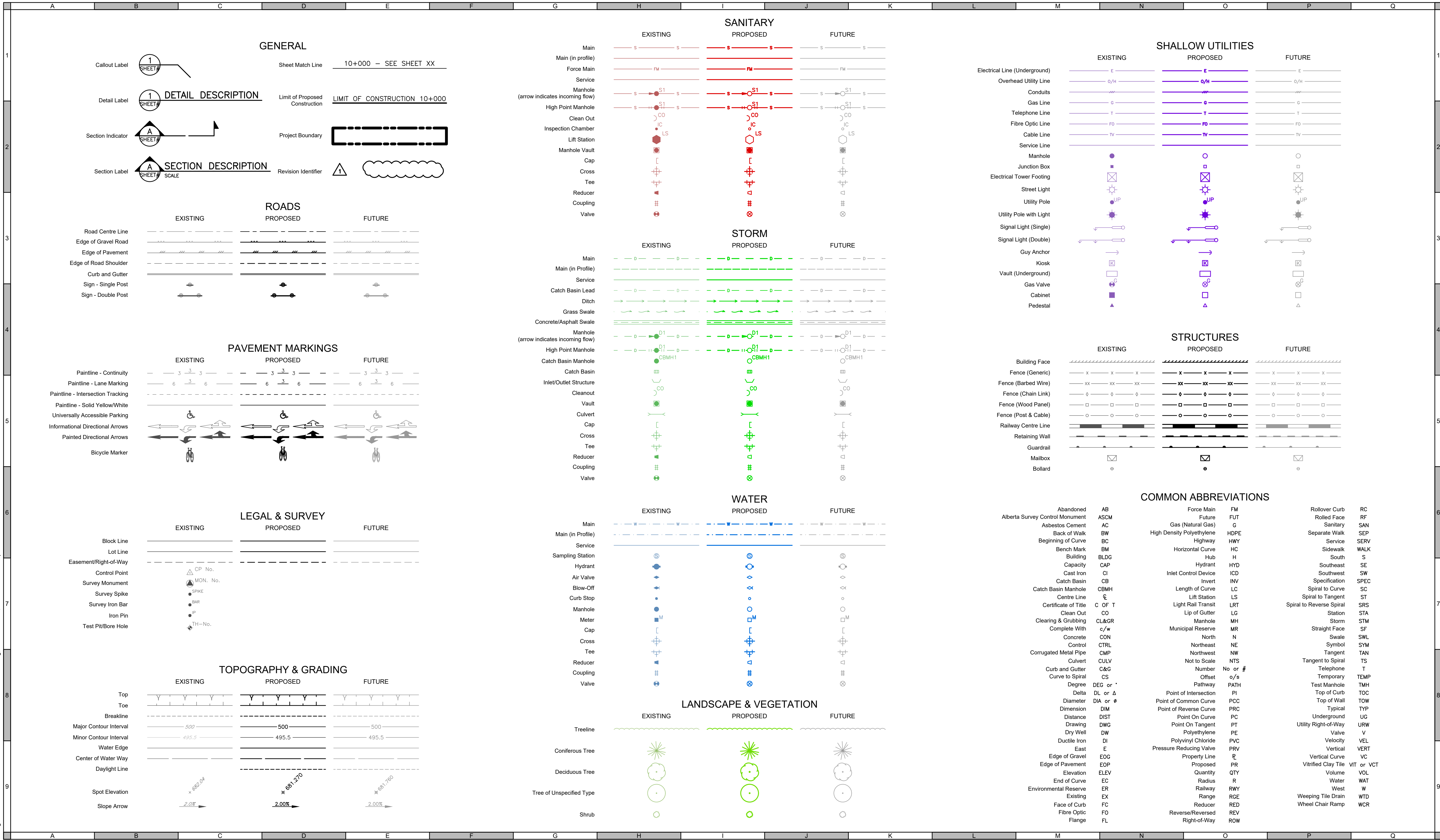
WATERMAIN - SHEARWATER ROAD
- C11

WATERMAIN - SHEARWATER ROAD
- C12

BULK FILL STATION



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**SURVEY INFORMATION**  
Prepared by: USS1  
Coordinate System: UTM NAD83  
Compilation Date: 2018-06-25

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Date: 2026-02-05  
**PERMIT NUMBER: 1000527**  
Engineers and Geoscientists BC (EGBC)

#	Date	Issue / Revision	App
1	2020-02-11	ISSUED FOR APPROVAL	JS
2	2026-02-05	ISSUED FOR TENDER	JS



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Scale: NOT TO SCALE

Quality Control by: J. Scissons  
Designed by: J. Scissons  
Drawn by: J. Hofmann/V. Nguyen

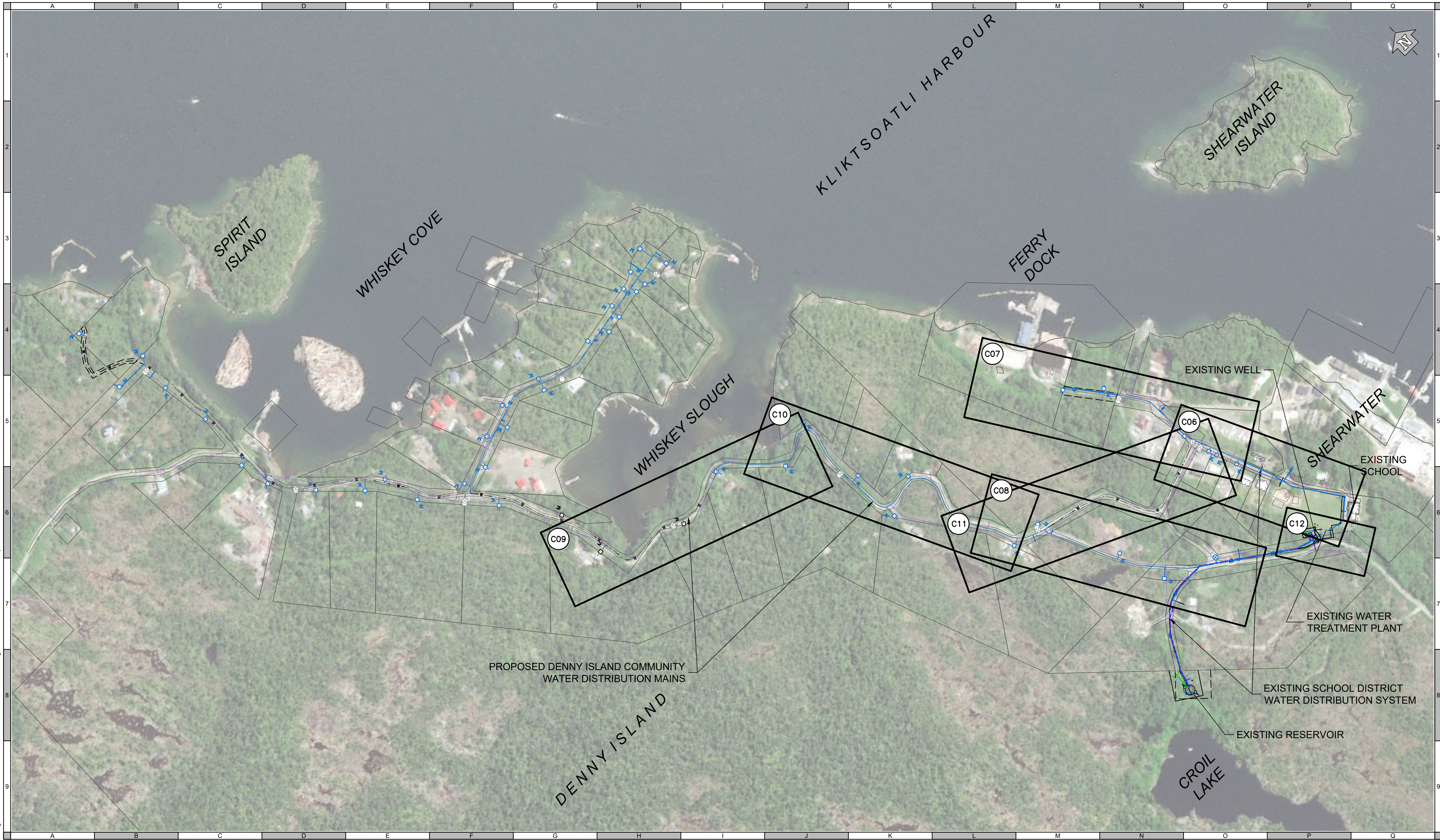
**DENNY ISLAND COMMUNITY WATER SYSTEM**  
LEGEND

Sheet Number	2 of 14
Project Number	3383.0005.02
Drawing Number	C01
Revision	2

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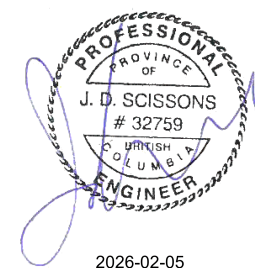
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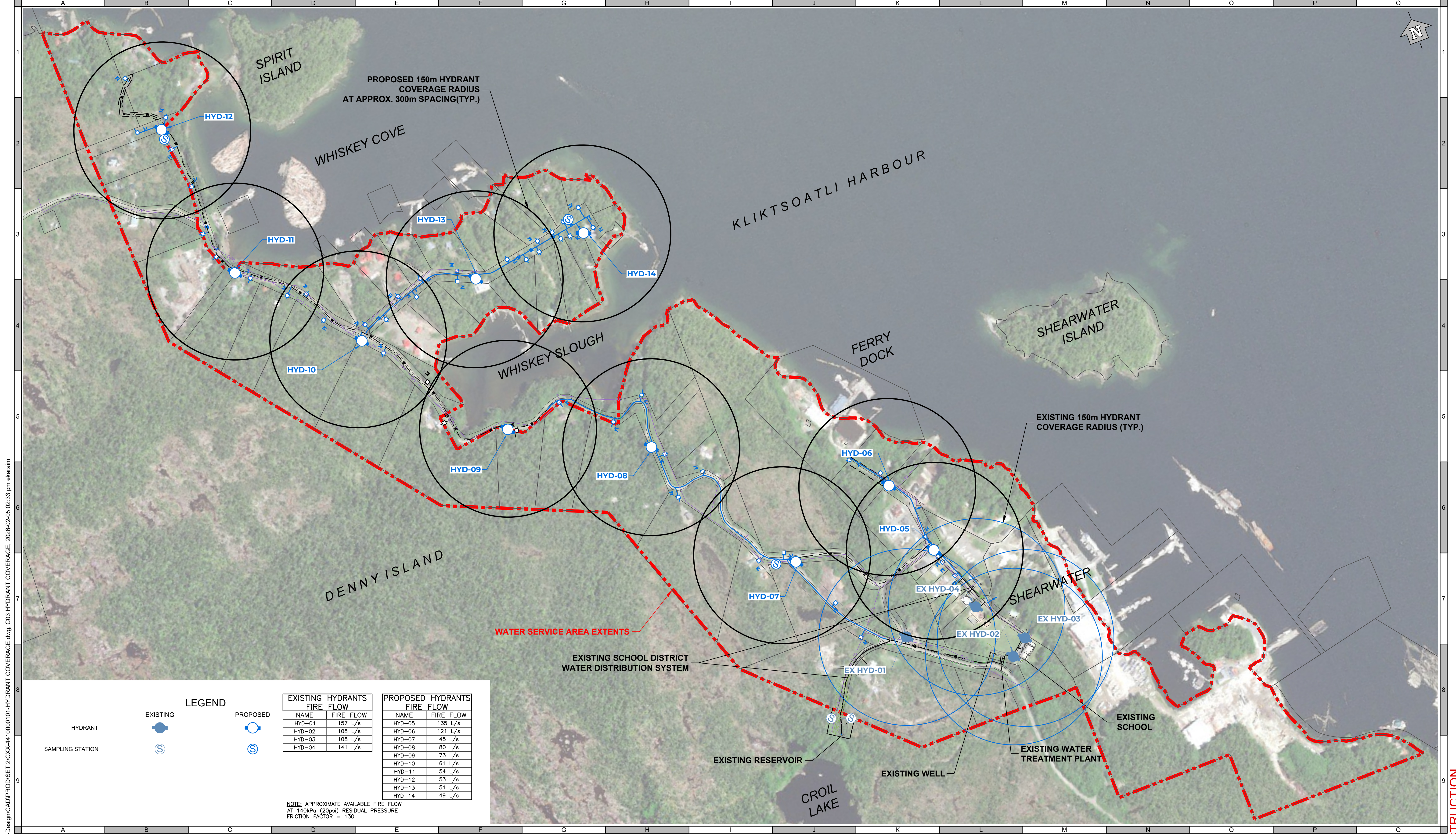
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Quality Control by: J. Scissons  
Designed by: J. Scissons  
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<b>DENNY ISLAND COMMUNITY WATER SYSTEM KEY PLAN</b>		
Sheet Number	3 of 14	
Project Number	Drawing Number	Revision
3383.0005.02	C02	2

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Compilation Date: 2018-06-25

EXISTING HYDRANTS FIRE FLOW	
NAME	FIRE FLOW
HYD-01	157 L/s
HYD-02	108 L/s
HYD-03	108 L/s
HYD-04	141 L/s

NOTE: APPROXIMATE AVAILABLE FIRE FLOW  
AT 140kPa (20psi) RESIDUAL PRESSURE  
FRICTION FACTOR = 130

PROPOSED HYDRANTS FIRE FLOW	
NAME	FIRE FLOW
HYD-05	135 L/s
HYD-06	121 L/s
HYD-07	45 L/s
HYD-08	80 L/s
HYD-09	73 L/s
HYD-10	61 L/s
HYD-11	54 L/s
HYD-12	53 L/s
HYD-13	51 L/s
HYD-14	49 L/s

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Scale: 30m 0 30 60 90

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Drawn by: J. Hofmann/ V. Nguyen

DENNEY ISLAND COMMUNITY WATER SYSTEM HYDRANT COVERAGE		
Sheet Number	4 of 14	
Project Number	Drawing Number	Revision
3383.0005.02	C03	2

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1	<div><div>GENERAL NOTES</div><div>1. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS CONTAINED IN THE MASTER MUNICIPAL CONSTRUCTION DOCUMENT (MMCD) PLATINUM EDITION, VOLUME II, 2009 AND THE CONTRACT DRAWINGS.</div><div>2. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION OF EXISTING UTILITIES IN THREE DIMENSIONS PRIOR TO CONSTRUCTION.</div><div>3. ALL EXISTING PROPERTY PINS ARE TO BE PROTECTED. THE CONTRACTOR IS RESPONSIBLE, AT THEIR OWN EXPENSE, FOR REPLACEMENT OF ANY PINS DISTURBED DURING THE WORKS. IF PINS NEED TO BE REPLACED, IT SHALL BE COMPLETED BY A BCLS APPROVED BY THE CONTRACT ADMINISTRATOR.</div><div>4. DO NOT USE THESE DRAWINGS TO ESTABLISH PROPERTY LINES OR LEGAL BOUNDARIES.</div><div>5. CONTRACTOR TO RECORD THE LOCATION OF NEW WORKS IN THREE DIMENSIONS INCLUDING ELEVATIONS OF BURIED WORKS AND CORRESPONDING SURFACE ELEVATIONS.</div><div>6. ALL DISTURBED AREAS ARE TO BE RESTORED TO ORIGINAL OR BETTER CONDITION.</div><div>7. ROAD RESTORATION TO BE COMPLETED IN ACCORDANCE WITH SPECIFICATIONS FROM MOTI AND MMCD DWG G5.</div><div>8. ANY SLOPES DISTURBED DURING CONSTRUCTION TO BE PROTECTED FROM EROSION AND RE-VEGETATED AS SOON AS WEATHER PERMITS.</div><div>WATER WORKS NOTES</div><div>1. HDPE WATERMAIN TO BE DR17 (125 PSI) PE4710.</div><div>2. PRESSURE TESTING AND CHLORINATION TO BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AWWA C651 AND MMCD SECTION 33 11 01.</div><div>3. a) HORIZONTAL SEPARATION BETWEEN WATERMAINS AND ANY STORM OR SANITARY MAINS TO BE A MINIMUM OF 3.0m.</div><div>b) VERTICAL SEPARATION BETWEEN WATERMAINS AND ANY STORM OR SANITARY MAINS TO BE A MINIMUM OF 500mm.</div><div>c) VERTICAL SEPARATION BETWEEN WATERMAINS AND UTILITIES OTHER THAN STORM OR SANITARY MAINS TO BE A MINIMUM OF 150mm.</div><div>4. COVER ABOVE ALL WATERMAINS TO BE A MINIMUM OF 0.9m. IF THE REQUIRED COVER CANNOT BE ACHIEVED, 50mm THICK, 1.2m WIDE RIGID HI40 INSULATION SHALL BE PLACED ABOVE THE WATERMAIN IN ACCORDANCE WITH THE CONTRACT ADMINISTRATOR'S APPROVAL.</div><div>5. a) TRENCH WORK TO BE IN ACCORDANCE WITH MMCD DWG G4.</div><div>b) PIPE BEDDING AND SURROUND MATERIAL TO CONSIST OF WELL-GRADED 19mm MINUS SAND AND GRAVEL COMPACTED TO 95% MPMDD.</div><div>c) TRENCH BACKFILL MATERIAL TO CONSIST OF WELL-GRADED 19mm MINUS SAND AND GRAVEL. TRENCH BACKFILL TO BE PLACED IN LIFTS NOT EXCEEDING 300 MM AND IS TO BE COMPACTED TO 95% MPMDD.</div><div>6. GATE VALVES TO BE IN ACCORDANCE WITH AWWA C509 AND MMCD DWG W3.</div><div>7. SAMPLING STATIONS TO BE ECLIPSE 88 OR APPROVED EQUAL.</div><div>8. HYDRANTS TO BE IN ACCORDANCE WITH MMCD DWG W4.</div><div>9. BLOW-OFFS TO BE IN ACCORDANCE WITH MMCD DWG W8.</div><div>10. COMBINATION AIR VALVES TO BE ARI D-090-P.</div><div>11. WATER SERVICE CONNECTIONS TO BE 25 MM POLYETHYLENE AS PER MMCD DWG W2a. SERVICE SADDLE TO BE ELECTROFUSED TO WATERMAIN UNLESS OTHERWISE INDICATED.</div><div>12. WATER METERS TO BE INSTALLED ON ALL SERVICE CONNECTIONS AS PER DETAIL.</div><div>13. WATER SERVICE CONNECTION SIZE AND LOCATION TO BE CONFIRMED WITH CONTRACT ADMINISTRATOR PRIOR TO SUPPLY AND INSTALLATION.</div></div>																	1
2	<div><div>COORDINATION NOTES</div><div>1. WATERMAIN ALIGNMENT WITHIN ROAD RIGHT-OF-WAY TO BE ADJUSTED BASED ON FAVOURABLE TRENCHING CONDITIONS, MINIMIZING UTILITY/ OTHER CONFLICTS, AND SIMILAR CONSIDERATIONS. ALIGNMENT TO BE CONFIRMED WITH CONTRACT ADMINISTRATOR.</div><div>2. LOCATIONS OF HYDRANTS, COMBINATION AIR VALVE ASSEMBLIES, ISOLATION VALVES, SAMPLING STATIONS, AND SIMILAR CENTRALIZED WATER SYSTEM COMPONENTS TO BE CONFIRMED WITH CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.</div><div>3. WATER SERVICE CONNECTION LOCATIONS AT EACH PROPERTY FRONTAGE SHALL BE CONFIRMED WITH THE CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION AND MAY BE INFORMED BY PROPERTY OWNER INPUT.</div></div>																	2
3																		3
4																		4
5																		5
6																		6
7																		7
8																		8
9																		9

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Coordinate System: UTM NAD83  
Compilation Date: 2018-06-25

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**URBAN**  
SYSTEMS

Scale  
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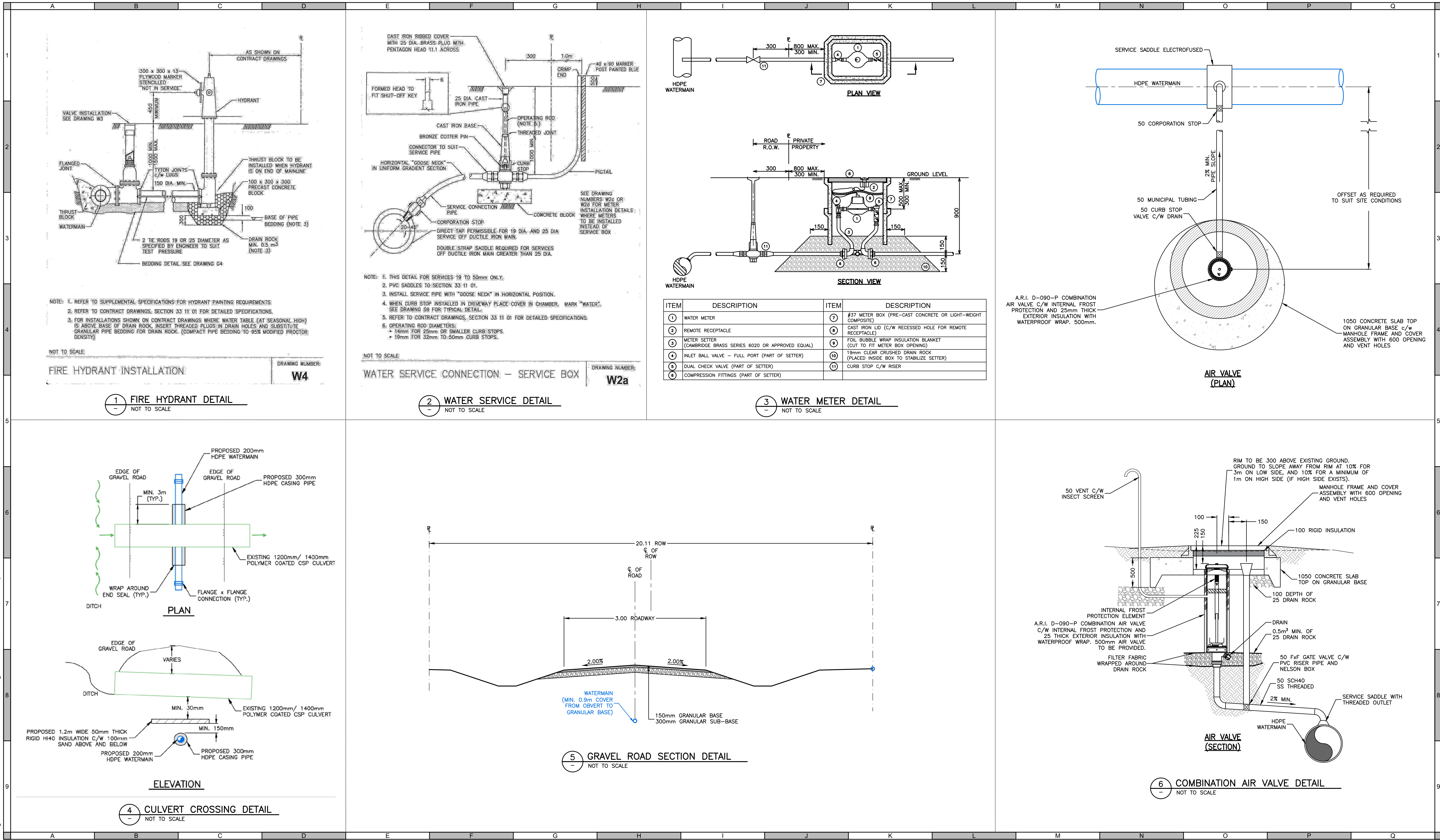
Quality Control by	J. Scissons
Designed by	J. Scissons
Drawn by	J. Hofmann/ V. Nguyen

DENNY ISLAND COMMUNITY WATER SYSTEM NOTES			
Sheet Number	5 of 14		
Project Number	3383.0005.02	Drawing Number	C04
Revision			2

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**URBAN SYSTEMS**

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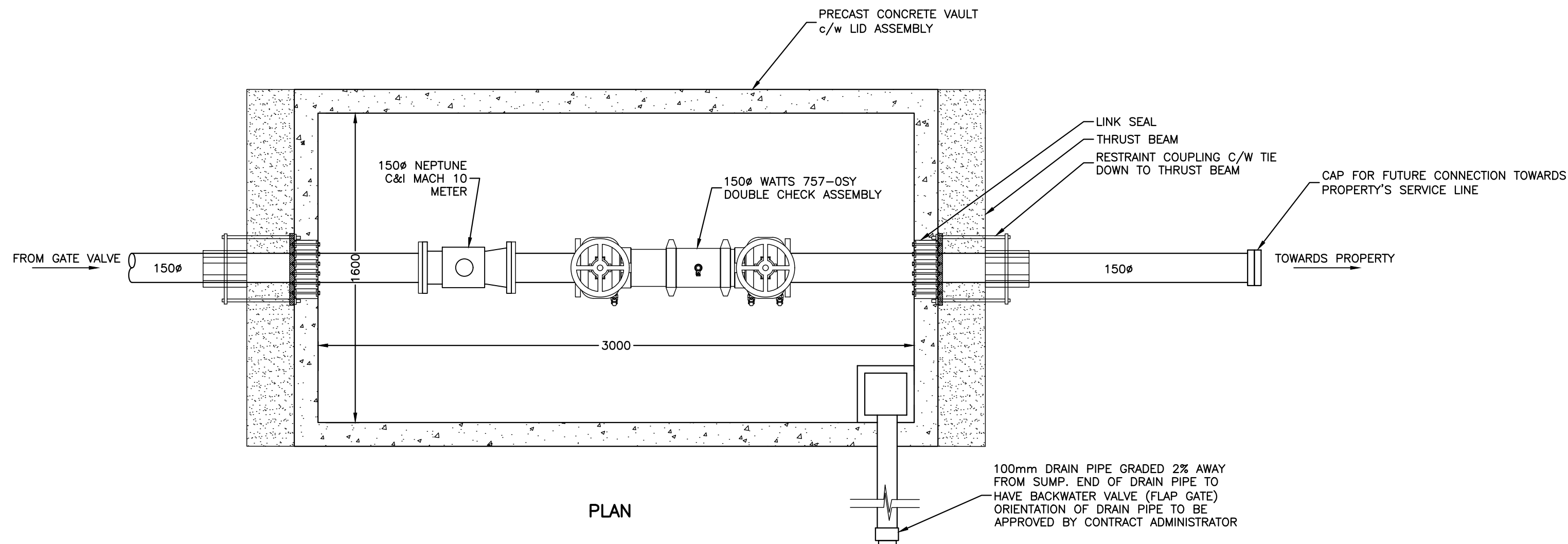
**DENNY ISLAND COMMUNITY WATER SYSTEM DETAILS**

Sheet Number: 6 of 14  
Project Number: 3383.0005.02  
Drawing Number: C05  
Revision: 2

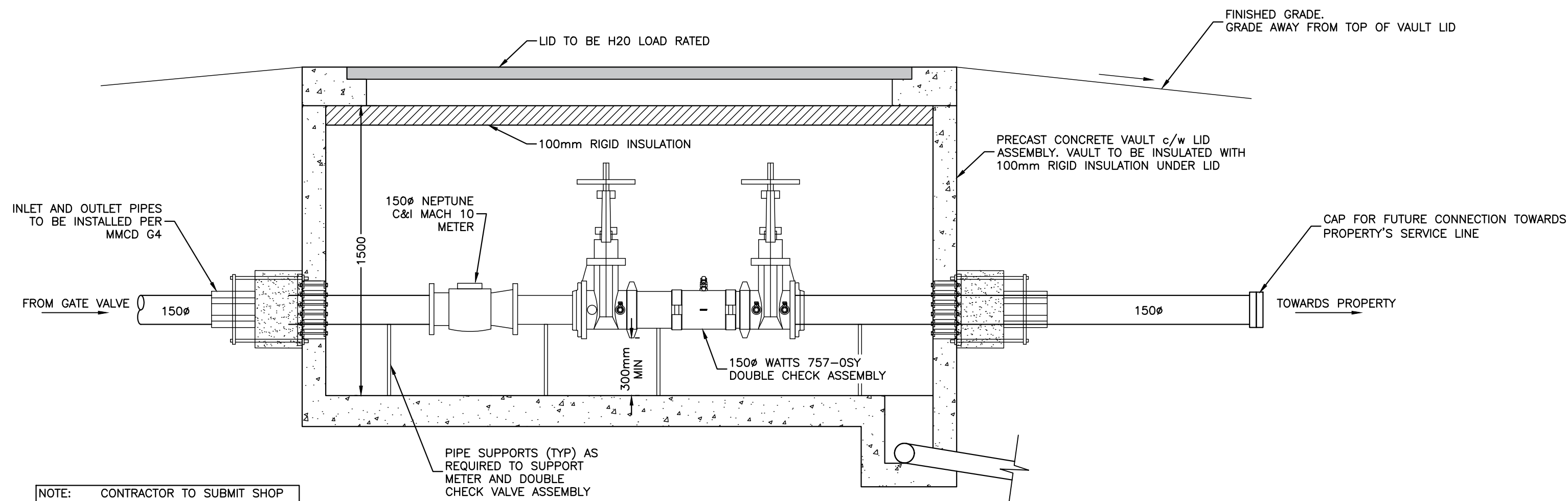
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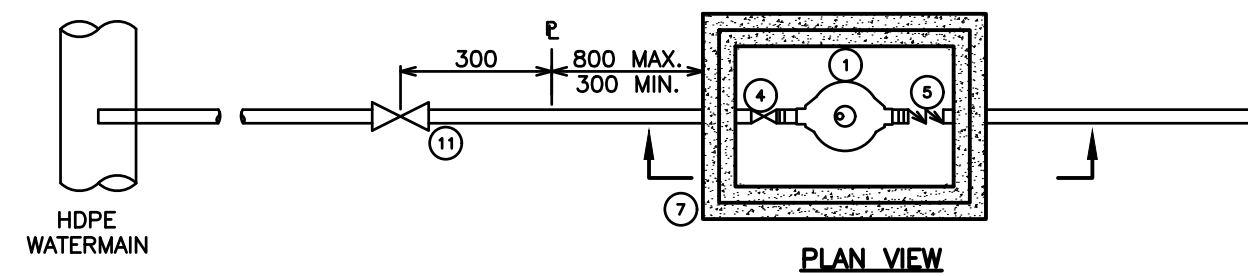
PLAN



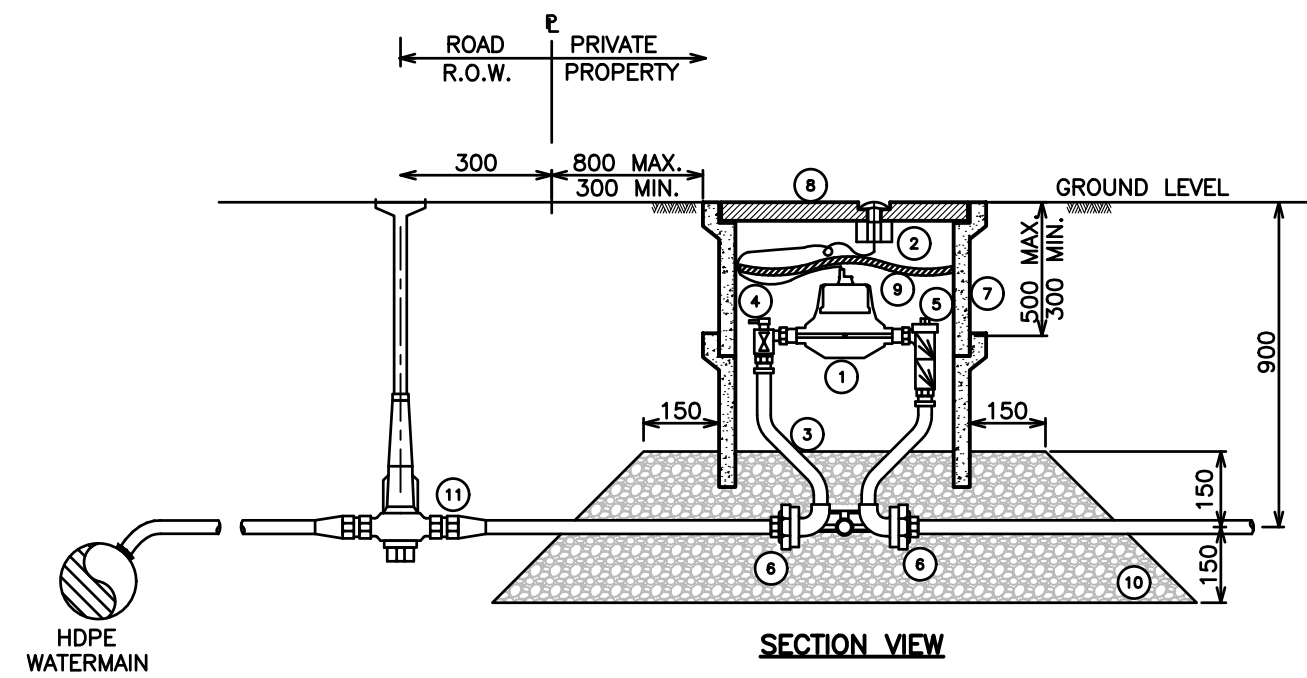
SECTION

NOTE: CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE METER AND BACKFLOW ASSEMBLY FOR APPROVAL. ORIENTATION, LOCATION, BASE SUPPORT, AND DRAIN LOCATION OF VAULT ASSEMBLY SHALL BE INCLUDED IN SHOP DRAWINGS.

1 METER AND BACKFLOW PREVENTER VAULT ASSEMBLY DETAIL  
NOT TO SCALE



PLAN VIEW



SECTION VIEW

ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	50mm WATER METER	7	#66 METER BOX (PRE-CAST CONCRETE OR LIGHT-WEIGHT COMPOSITE)
2	REMOTE RECEPTACLE	8	CAST IRON LID (C/W RECESSED HOLE FOR REMOTE RECEPTACLE)
3	METER SETTER (CAMBRIDGE BRASS SERIES 6020 OR APPROVED EQUAL)	9	FOIL BUBBLE WRAP INSULATION BLANKET (CUT TO FIT METER BOX OPENING)
4	INLET BALL VALVE - FULL PORT (PART OF SETTER)	10	19mm CLEAR CRUSHED DRAIN ROCK (PLACED INSIDE BOX TO STABILIZE SETTER)
5	DUAL CHECK VALVE (PART OF SETTER)	11	CURB STOP C/W RISER
6	COMPRESSION FITTINGS (PART OF SETTER)		

2 50mm WATER METER DETAIL  
NOT TO SCALE

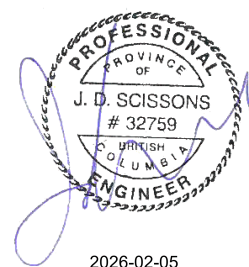
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Drawn by: E. Karaim

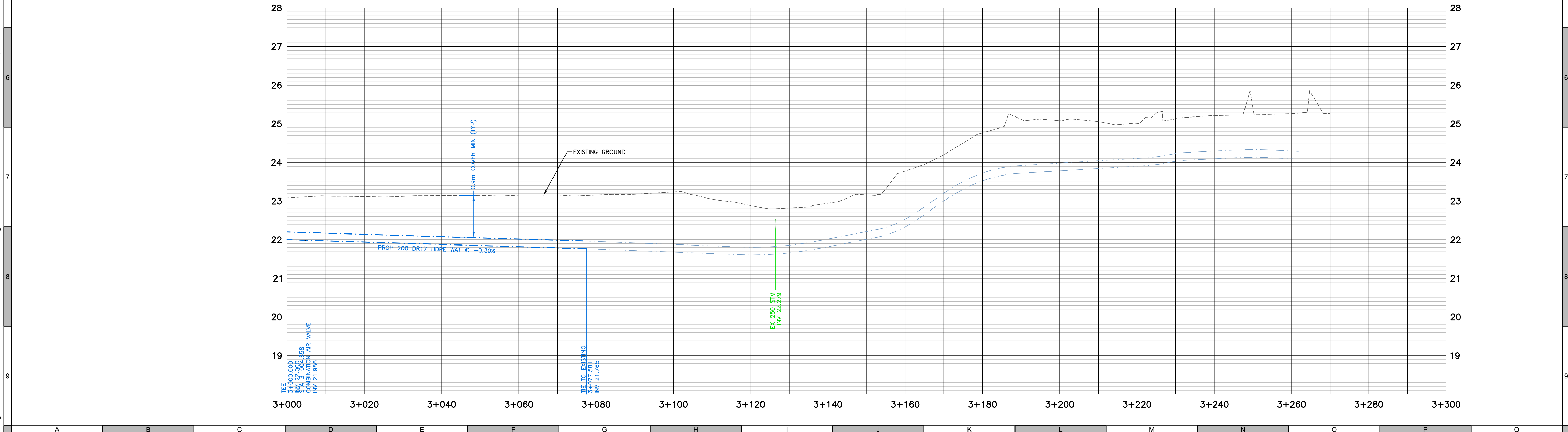
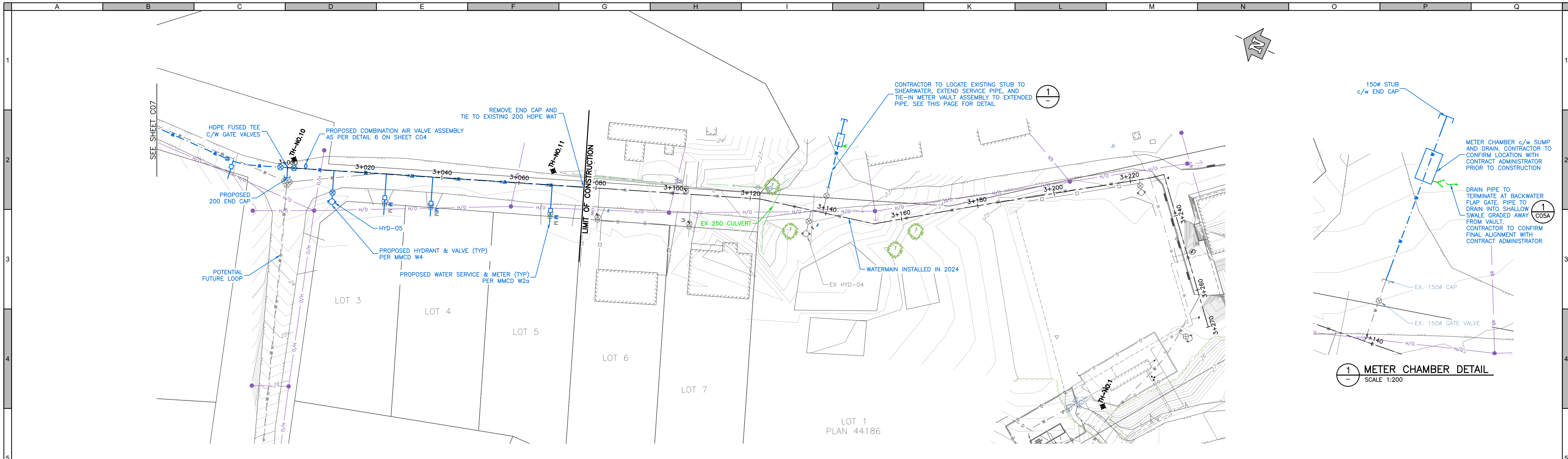
**DENNY ISLAND COMMUNITY  
WATER SYSTEM  
DETAILS (2)**

Sheet Number: 7 of 14  
Project Number: 3383.0005.02  
Drawing Number: C05A  
Revision: 1

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**Central Coast**  
REGIONAL DISTRICT  
That we may be good people together

**URBAN SYSTEMS**

Scale H 5m 0 5 10 15  
V 0.5m 0 0.5 1 1.5

Quality Control by J. Scissons  
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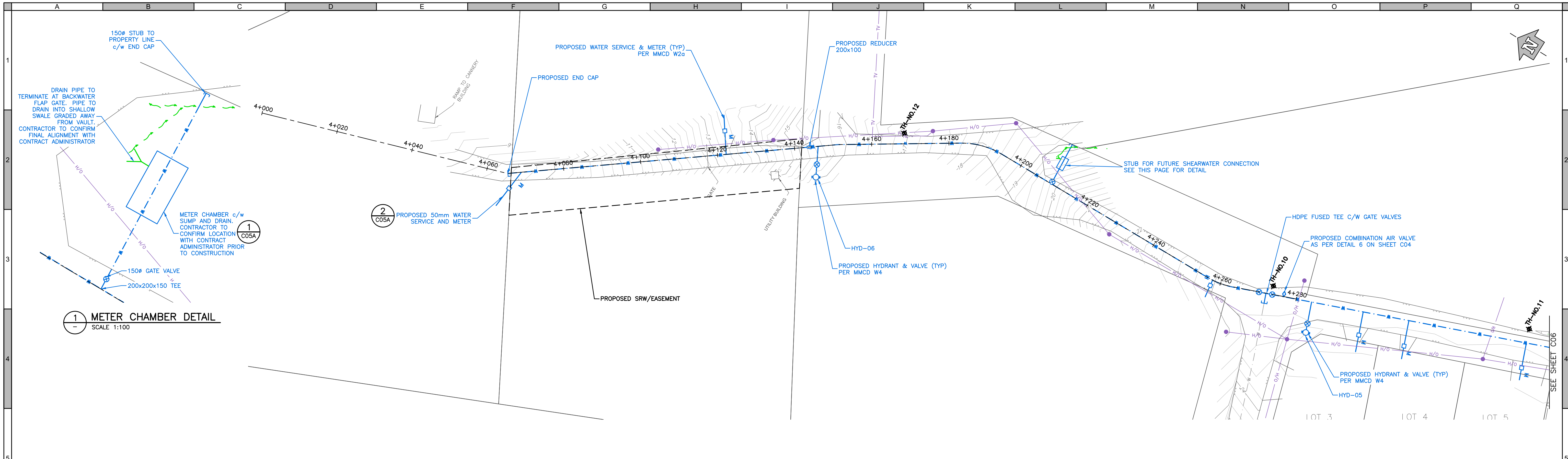
**DENNY ISLAND COMMUNITY WATER SYSTEM**  
WATERMAIN - MARINE DRIVE  
Station 3+000 to 3+300

Sheet Number 8 of 14  
Project Number 3383.0005.02  
Drawing Number C06  
Revision 2

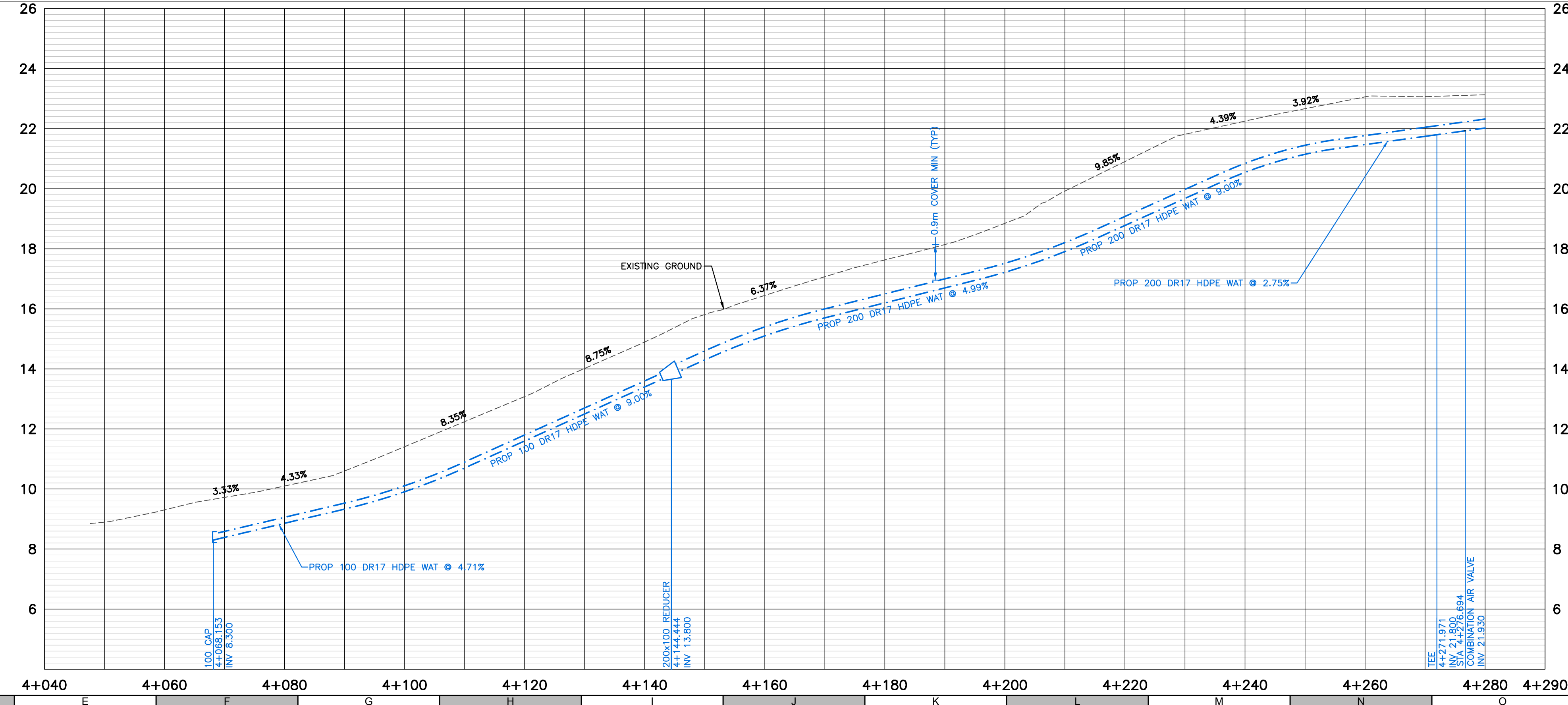
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1 METER CHAMBER DETAIL  
SCALE 1:100



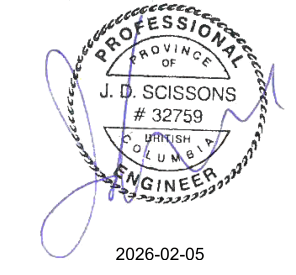
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Scale: H 5m 0 5 10 15  
V 1m 0 1 2 3

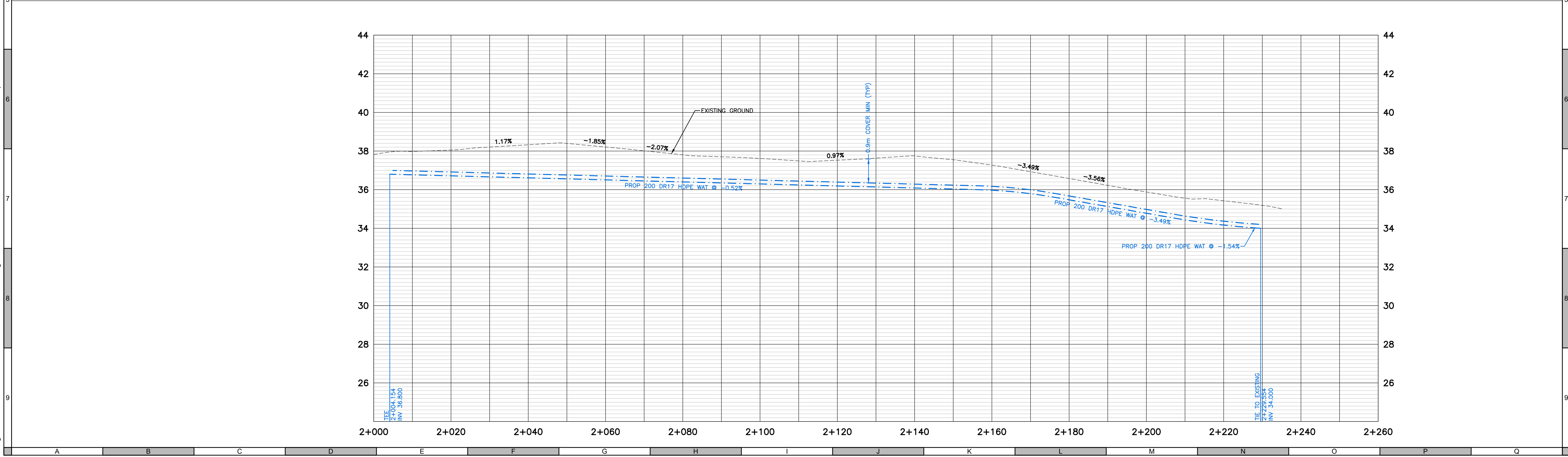
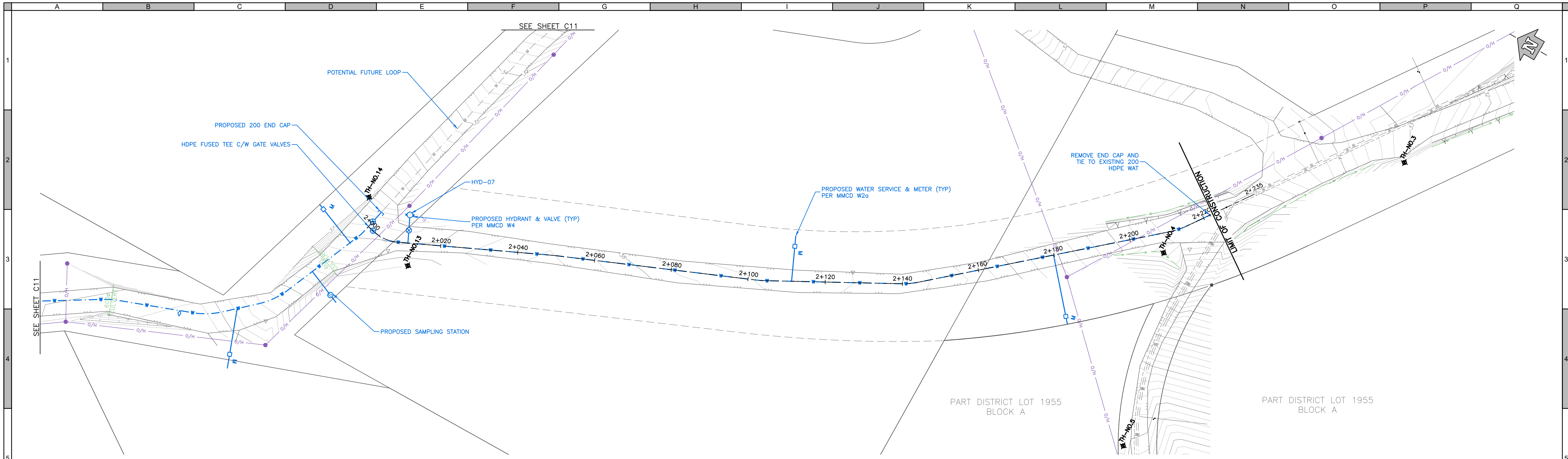
Quality Control by: J. Scissons  
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Drawn by: J. Hofmann/V. Nguyen

<b>DENNY ISLAND COMMUNITY WATER SYSTEM</b> WATERMAIN - MARINE DRIVE Station 4+000 to 4+290			
Sheet Number	9 of 14		
Project Number	Drawing Number	Revision	
3383.0005.02	C07	2	

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U:\Projects\_KAM\4410\0001\1010-Design\CAD\PRO\SET 2\C09-4410\0001\101-PP LOOP RD.dwg, C08 WATERMAIN - AIRPORT ROAD, 2026-02-05 02:34 pm ekaram



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**SURVEY INFORMATION**  
Prepared by: USS1  
Coordinate System: UTM NAD83  
Compilation Date: 2018-06-25

**ISSUED FOR TENDER**  
FEBRUARY 5 2026  
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**PERMIT TO PRACTICE**  
URBAN SYSTEMS LTD.  
Signature: [Signature]  
Date: 2026-02-05  
**PERMIT NUMBER: 1000527**  
Engineers and Geoscientists BC (EGBC)

#	Date	Issue / Revision	App
1	2020-02-11	ISSUED FOR APPROVAL	JS
2	2026-02-05	ISSUED FOR TENDER	JS



**URBAN SYSTEMS**

Scale: H 5m 0 5 10 15  
V 1m 0 1 2 3

Quality Control by: J. Scissons  
Designed by: J. Scissons  
Drawn by: J. Hofmann/V. Nguyen

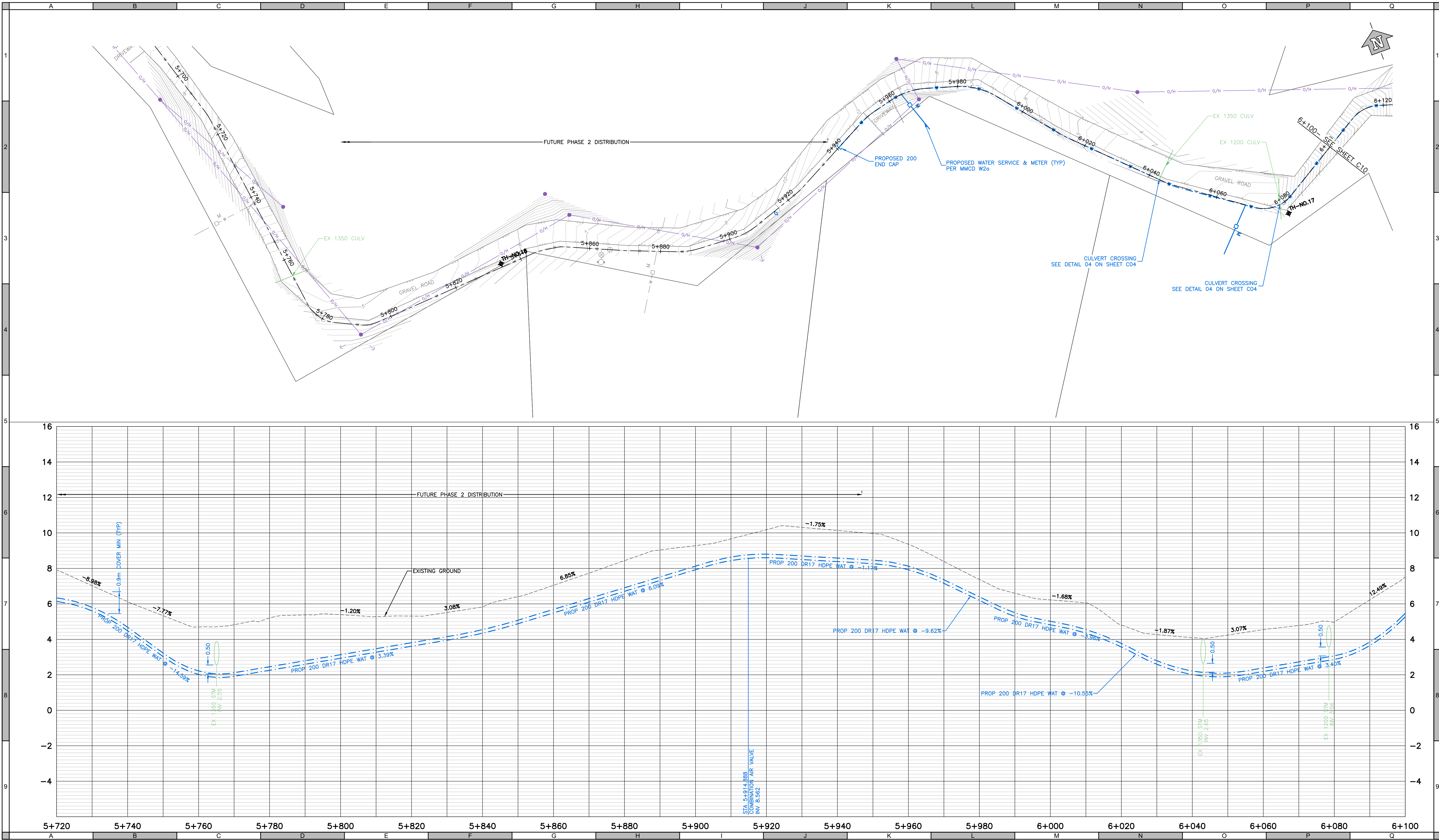
**DENNY ISLAND COMMUNITY WATER SYSTEM**  
WATERMAIN - AIRPORT ROAD  
Station 2+000 to 2+260

Sheet Number: 10 of 14  
Project Number: 3383.0005.02  
Drawing Number: C08  
Revision: 2

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U:\Projects\_KAM\4410\0001\010\10\Design\CAD\PRO\SET 2\C11 WATERMAIN - SHEARWATER ROAD.dwg, C09 WATERMAIN - SHEARWATER ROAD, 2026-02-05 02:34 pm ekrarim



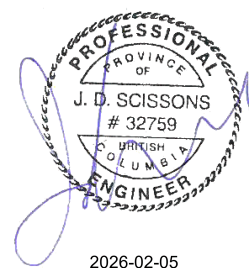
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**SURVEY INFORMATION**  
Prepared by: USSI  
Coordinate System: UTM NAD83  
Compilation Date: 2018-06-25

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FEBRUARY 5 2026  
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Signature: [Signature]  
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Scale: H 5m 0 5 10 15  
V 1m 0 1 2 3  
Quality Control by: J. Scissons  
Designed by: J. Scissons  
Drawn by: J. Hofmann/V. Nguyen

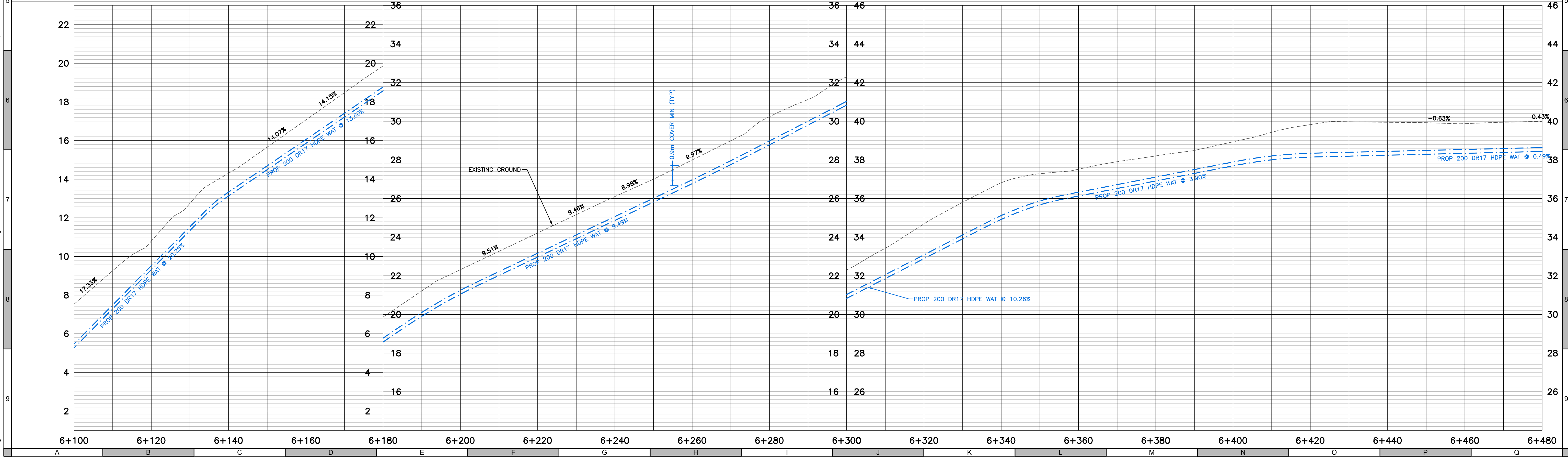
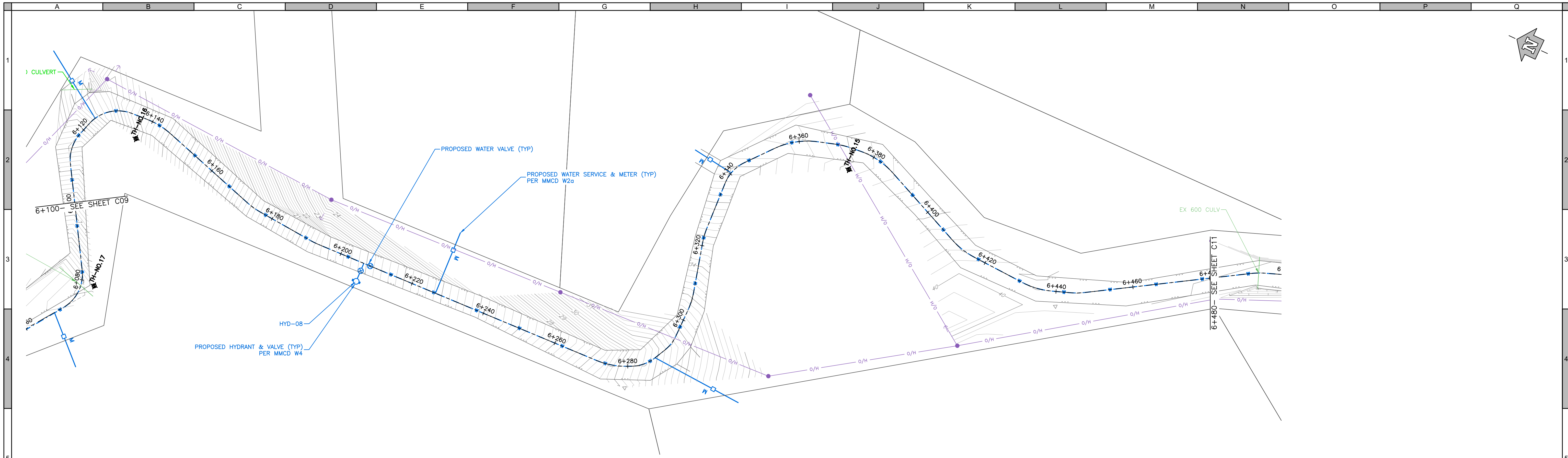
**DENNY ISLAND COMMUNITY WATER SYSTEM**  
WATERMAIN - SHEARWATER ROAD  
Station 5+720 to 6+100

Sheet Number: 11 of 14  
Project Number: 3383.0005.02  
Drawing Number: C09  
Revision: 2

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**SURVEY INFORMATION**  
Prepared by: USS  
Coordinate System: UTM NAD83  
Compilation Date: 2018-06-25

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1	2020-02-11	ISSUED FOR APPROVAL	JS
2	2026-02-05	ISSUED FOR TENDER	JS



**URBAN SYSTEMS**

Scale: H 5m 0 5 10 15  
V 1m 0 1 2 3

Quality Control by: J. Scissons  
Designed by: J. Scissons  
Drawn by: J. Hofmann/V. Nguyen

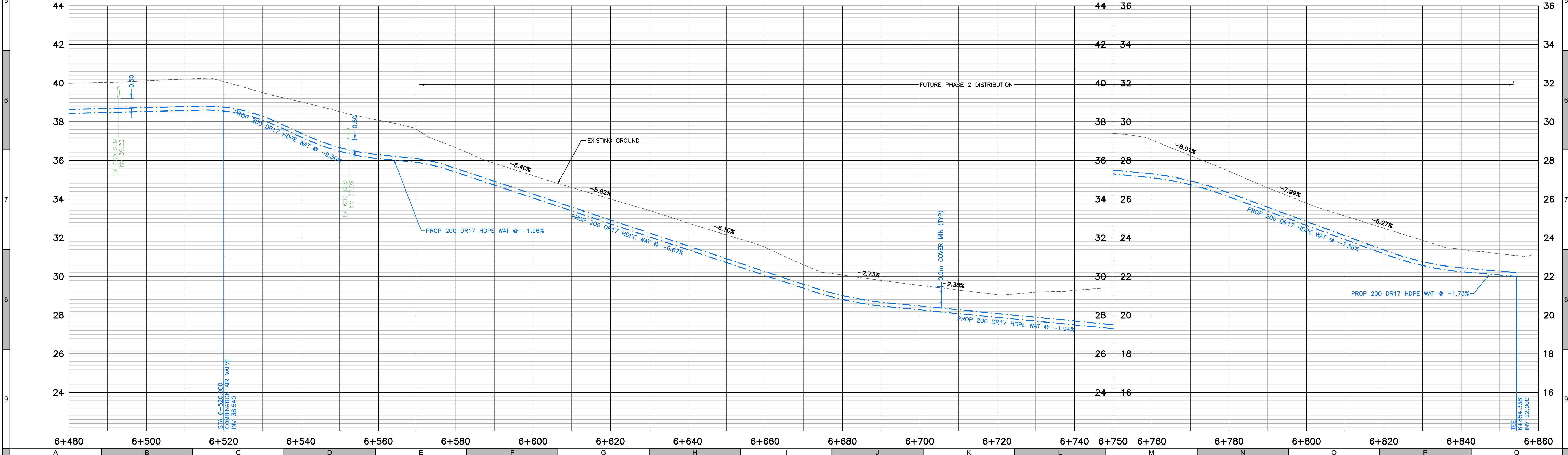
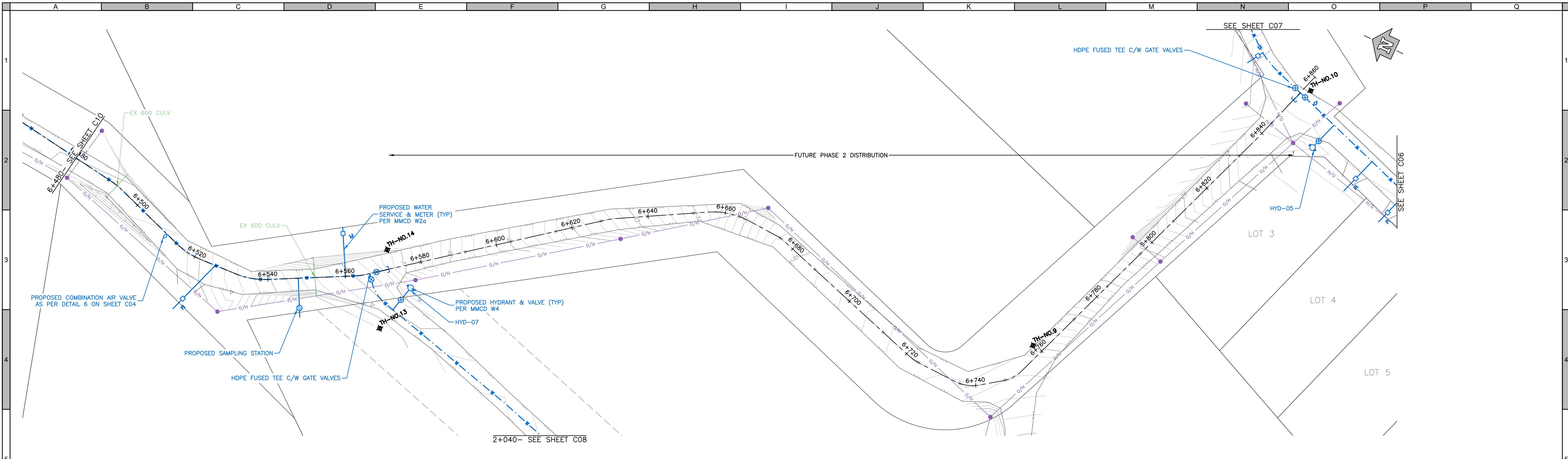
**DENNY ISLAND COMMUNITY WATER SYSTEM**  
WATERMAIN - SHEARWATER ROAD  
Station 6+100 to 6+480

Sheet Number: 12 of 14  
Project Number: 3383.0005.02  
Drawing Number: C10  
Revision: 2

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**SURVEY INFORMATION**  
Prepared by: USS1  
Coordinate System: UTM NAD83  
Compilation Date: 2018-06-25

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**PERMIT NUMBER: 1000527**  
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**URBAN SYSTEMS**

Scale: H 5m 0 5 10 15  
V 1m 0 1 2 3

Quality Control by: J. Scissons  
Designed by: J. Scissons  
Drawn by: J. Hofmann/V. Nguyen

**DENNY ISLAND COMMUNITY WATER SYSTEM**  
WATERMAIN - SHEARWATER ROAD  
Station 6+480 to 6+860

Sheet Number: 13 of 14  
Project Number: 3383.0005.02  
Drawing Number: C11  
Revision: 2

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