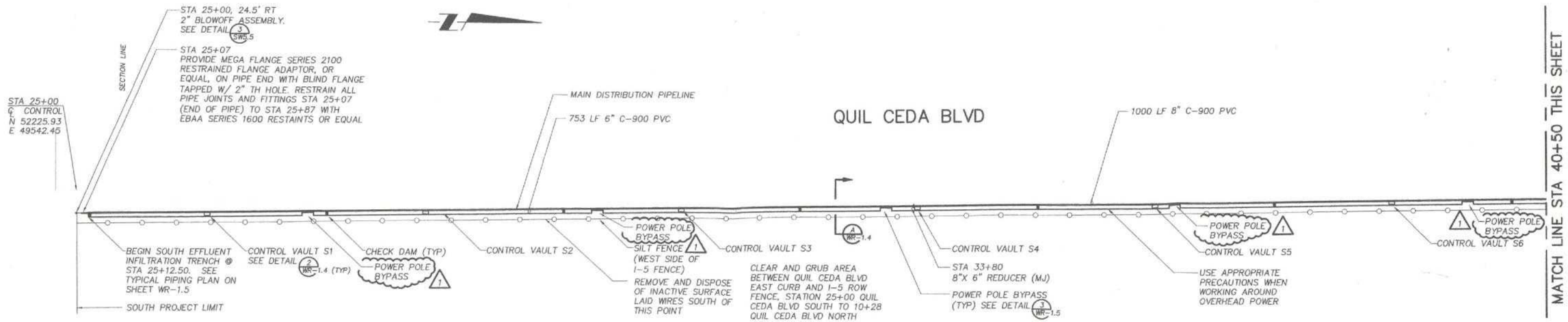
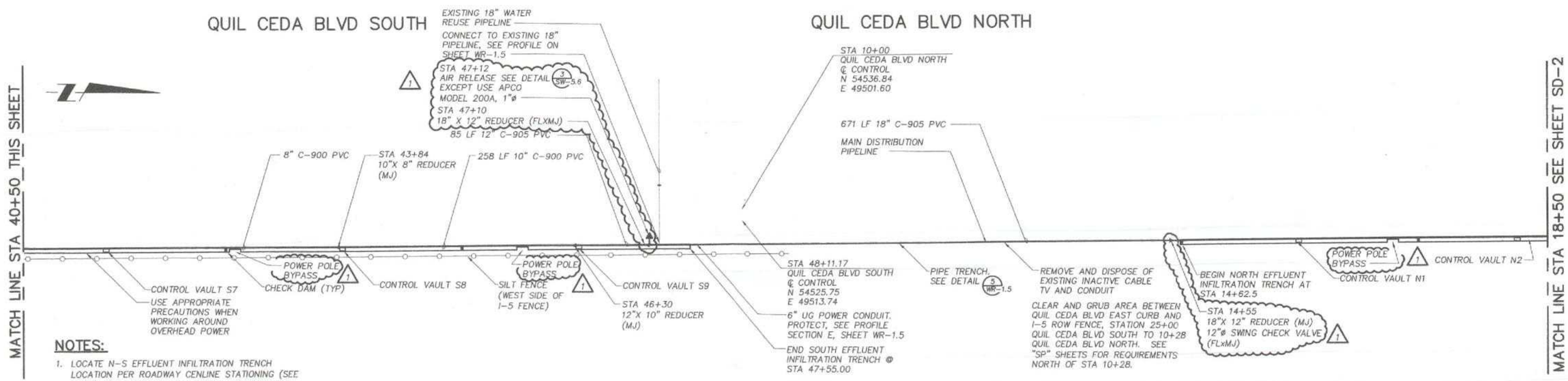
APPENDIX I

Effluent Infiltration System Construction Plans



PLAN
1"=50'



PLAN
1"=50'

NOTES:

1. LOCATE N-S EFFLUENT INFILTRATION TRENCH LOCATION PER ROADWAY CENLINE STATIONING (SEE pLAN) AND LOCATE E-W EFFLUENT INDILTRATION TRENCH LOCATION RELATIVE TO I-5 ROW FENCE (SEE SECTION A, WR-1.4.
2. WR SHEETS SHOW CONSTRUCTION DETAILS FOR EFFLUENT INFILTRATION SYSTEM ONLY. SEE OTHER SHEETS AT APPROPRIATE FOR ALL OTHER WORK.
3. FOR HORIZONTAL PIPE LOCATION, SEE TYPICAL SECTION A, SHEET WR-1.4.
4. BRANCH DISTRIBUTION PIPING NOT SHOWN. SEE TYPICAL PIPING PLAN 3, SHEET WR-1.4.
5. SEE SCHEDULE 1 FOR TRENCH DATA FOR LOCATION OF IMPROVEMENTS.

NO.	REVISIONS	DATE	BY
1	REVISED PER ADDENDUM NO. 1 – ADDED AIR RELEASE AND CHECK VALVES AND POWER POLE BYPASS NOTE	5/14/02	KTF

DESIGNED K. FELLOWS
DRAWN K. STALLMAN
CHECKED
APPROVED

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY
SCALE AS SHOWN
DATE MAY 2002

KENNETH THOMAS FELLOWS
STATE OF WASHINGTON
32135
REGISTERED
PROFESSIONAL ENGINEER
5/17/02
EXPIRES 01/05/04

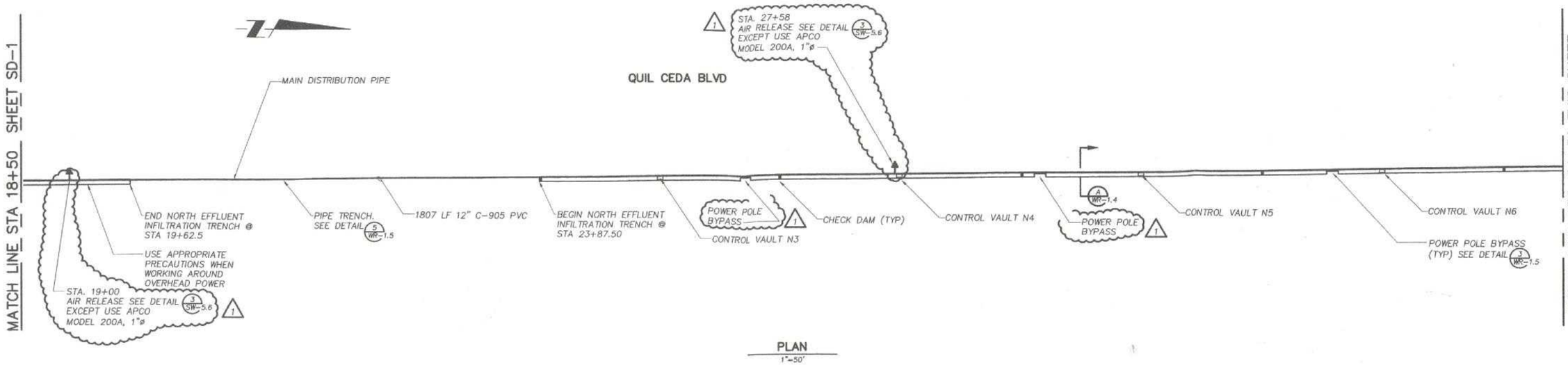
Parametrix, Inc. "Quality Service Through Employee Ownership"
1231 Fryar Avenue
Sumner, WA 98390
Ph: (253) 863-5128
Fax: (253) 863-0946
http://www.parametrix.com
WASHINGTON Sumner Bremerton Kirkland
OREGON Portland

PROJECT NAME
TULALIP EFFLUENT INFILTRATION
THE TULALIP TRIBES
TULALIP, WASHINGTON
JOB NO. 216-1598-012
FILE: 15980120401ASD01

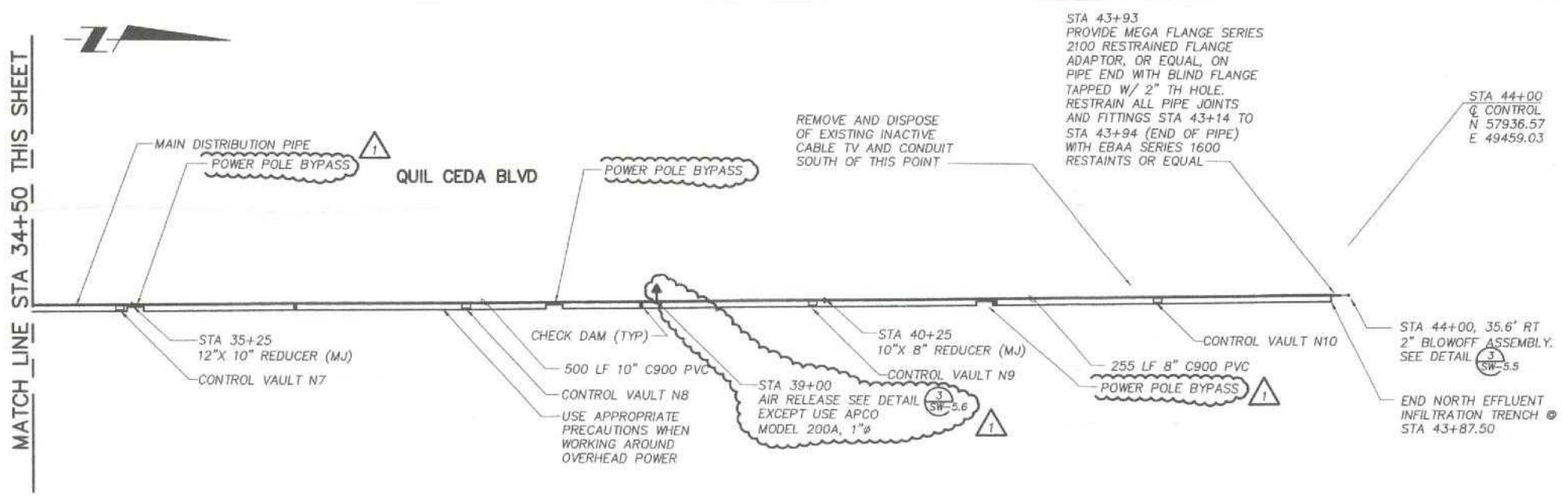
QUIL CEDA BOULEVARD EFFLUENT INFILTRATION TRENCH AND PIPELINE PLAN

SHEET NO. WR-1.1
1/5

IMAGES:
XREFS: 15980120401dpl 15980120401dwg 15980120401dwg 15980120401dwg 15980120401dwg 15980120401dwg
DATE: 05/15/02



PLAN
1"=50'



PLAN
1"=50'

NOTES:

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KENNETH THOMAS FELLOWS
STATE OF WASHINGTON
32135
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 01/05/04
5/17/02

NO.	REVISIONS	DATE	BY
1	REVISED PER ADDENDUM NO. 1 – ADDED AIR RELEASE VALVES AND POWER POLE BYPASS NOTE	5/14/02	KTF

DESIGNED K. FELLOWS
DRAWN K. STALLMAN
CHECKED
APPROVED

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY
SCALE AS SHOWN
DATE MAY 2002

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PROJECT NAME
TULALIP EFFLUENT INFILTRATION
THE TULALIP TRIBES
TULALIP, WASHINGTON
JOB NO. 216-1598-012
FILE: 159801204 01ASD01

QUIL CEDA BOULEVARD
EFFLUENT INFILTRATION
TRENCH AND PIPELINE PLAN

SHEET NO. WR-1.2
2/5

DATE: 04/17/02 XREFS: 159801204 01ASD1.dwg 159801Xrefs 159801Xrefs.dwg 159801204-TRENCH DE 159801Xbm

Branch	Item	No.	Station	Trench Bottom Elevation (ft)	Pipe Invert Elevation (ft)	PP Station
S1	End of Trench		25 + 12.50	43.4		
	Discharge Pt.	1	25 + 25.00			
	Discharge Pt.	2	25 + 50.00	43.0		
	Discharge Pt.	3	25 + 75.00			
	Discharge Pt.	4	26 + 0.00	42.6		
	Discharge Pt.	5	26 + 25.00			
	Branch Connection		26 + 37.50			
	Discharge Pt.	6	26 + 50.00	42.1		
	Discharge Pt.	7	26 + 75.00			
	Discharge Pt.	8	27 + 0.00	41.6		
	Discharge Pt.	9	27 + 25.00			
	Discharge Pt.	10	27 + 50.00	41.9		27+43.5
	Check Dam		27 + 62.50			
S2	Discharge Pt.	1	27 + 75.00			
	Discharge Pt.	2	28 + 0.00	42.3		
	Discharge Pt.	3	28 + 25.00			
	Discharge Pt.	4	28 + 50.00	42.8		
	Discharge Pt.	5	28 + 65.00			
	Branch Connection		28 + 75.00			
	Discharge Pt.	6	29 + 0.00	43.2		
	Discharge Pt.	7	29 + 25.00			
	Discharge Pt.	8	29 + 50.00	44.0		
	Discharge Pt.	9	29 + 75.00			
	Discharge Pt.	10	30 + 0.00	44.7		
	Check Dam		30 + 12.50			
S3	Discharge Pt.	1	30 + 25.00			
	Discharge Pt.	2	30 + 50.00	45.4		30+49
	Discharge Pt.	3	30 + 75.00			
	Discharge Pt.	4	31 + 0.00	45.7		
	Discharge Pt.	5	31 + 25.00			
	Branch Connection		31 + 37.50			
	Discharge Pt.	6	31 + 50.00	45.8		
	Discharge Pt.	7	31 + 75.00			
	Discharge Pt.	8	32 + 0.00	46.2		
	Discharge Pt.	9	32 + 25.00			
	Discharge Pt.	10	32 + 50.00	46.4		
	Check Dam		32 + 62.50			
S4	Discharge Pt.	1	32 + 75.00			
	Discharge Pt.	2	33 + 0.00	46.5		
	Discharge Pt.	3	33 + 25.00			
	Discharge Pt.	4	33 + 50.00	46.5		33+54
	Discharge Pt.	5	33 + 75.00			
	Branch Connection		33 + 87.50			
	Discharge Pt.	6	34 + 0.00	46.5		
	Discharge Pt.	7	34 + 25.00			
	Discharge Pt.	8	34 + 50.00	46.3		
	Discharge Pt.	9	34 + 75.00			
	Discharge Pt.	10	35 + 0.00	46.7		
	Check Dam		35 + 12.50			
S5	Discharge Pt.	1	35 + 25.00			
	Discharge Pt.	2	35 + 50.00	47.0		
	Discharge Pt.	3	35 + 75.00			
	Discharge Pt.	4	36 + 0.00	47.2		
	Discharge Pt.	5	36 + 25.00			
	Branch Connection		36 + 37.50			
	Discharge Pt.	6	36 + 50.00	47.3		36+58
	Discharge Pt.	7	36 + 75.00			
	Discharge Pt.	8	37 + 0.00	47.5		
	Discharge Pt.	9	37 + 25.00			
	Discharge Pt.	10	37 + 50.00	47.6		
	Check Dam		37 + 62.50			
S6	Discharge Pt.	10	37 + 75.00			
	Discharge Pt.	9	38 + 0.00	48.0		
	Discharge Pt.	8	38 + 25.00			
	Discharge Pt.	7	38 + 50.00	48.3		
	Discharge Pt.	6	38 + 75.00			
	Branch Connection		38 + 87.50			
	Discharge Pt.	5	39 + 0.00	48.3		
	Discharge Pt.	4	39 + 25.00			
	Discharge Pt.	3	39 + 50.00	48.3		
	Discharge Pt.	2	39 + 75.00			39+67
	Discharge Pt.	1	40 + 0.00	48.5		
	Check Dam		40 + 12.50			

Branch	Item	No.	Station	Trench Bottom Elevation (ft)	Pipe Invert Elevation (ft)	PP Station
S7	Discharge Pt.	1	40 + 25.00			
	Discharge Pt.	2	40 + 50.00	48.7		
	Discharge Pt.	3	40 + 75.00			
	Discharge Pt.	4	41 + 0.00	48.7		
	Discharge Pt.	5	41 + 25.00			
	Branch Connection		41 + 37.50			
	Discharge Pt.	6	41 + 50.00	48.8		
	Discharge Pt.	7	41 + 75.00			
	Discharge Pt.	8	42 + 0.00	48.8		
	Discharge Pt.	9	42 + 25.00			
	Discharge Pt.	10	42 + 50.00	49.1		
	Check Dam		42 + 62.50			
S8	Discharge Pt.	1	42 + 75.00			42+73.5
	Discharge Pt.	2	43 + 0.00	49.1		
	Discharge Pt.	3	43 + 25.00			
	Discharge Pt.	4	43 + 50.00	49.2		
	Discharge Pt.	5	43 + 75.00			
	Branch Connection		43 + 87.50			
	Discharge Pt.	6	44 + 0.00	49.7		
	Discharge Pt.	7	44 + 25.00			
	Discharge Pt.	8	44 + 50.00	50.2		
	Discharge Pt.	9	44 + 75.00			
	Discharge Pt.	10	45 + 0.00	50.5	51.0	
	Check Dam		45 + 12.50			
S9	Discharge Pt.	1	45 + 25.00			
	Discharge Pt.	2	45 + 50.00	50.3	51.0	
	Discharge Pt.	3	45 + 75.00			45+78
	Discharge Pt.	4	46 + 0.00	50.5	51.0	
	Discharge Pt.	5	46 + 25.00			
	Branch Connection		46 + 37.50			
	Discharge Pt.	6	46 + 50.00	50.6	51.4	
	Discharge Pt.	7	46 + 75.00			
	Discharge Pt.	8	47 + 0.00	50.9	51.8	
	Discharge Pt.	9	47 + 25.00			
	Discharge Pt.	10	47 + 50.00	51.3		
	End of Trench		47 + 55.00	51.3		
			48 + 11.17		50.3	
			10 + 50.00		50.3	10+72
			11 + 0.00		50.1	
			11 + 50.00		49.8	
			12 + 0.00		49.6	
			12 + 50.00		48.7	
			13 + 0.00		48.5	
			13 + 50.00		48.6	
			14 + 0.00		48.9	13+76
			14 + 50.00	49.4		
	End of Trench		14 + 62.50	49.6		
N1	Discharge Pt.	1	14 + 75.00			
	Discharge Pt.	2	15 + 0.00	50.0		
	Discharge Pt.	3	15 + 25.00			
	Discharge Pt.	4	15 + 50.00	50.5		
	Discharge Pt.	5	15 + 75.00			
	Branch Connection		15 + 87.50			
	Discharge Pt.	6	16 + 0.00	51.0		
	Discharge Pt.	7	16 + 25.00			
	Discharge Pt.	8	16 + 50.00	51.5		
	Discharge Pt.	9	16 + 75.00			
	Discharge Pt.	10	17 + 0.00	52.2		16+87
	Check Dam		17 + 12.50			
N2	Discharge Point	1	17 + 25.00			
	Discharge Point	2	17 + 50.00	53.0		
	Discharge Point	3	17 + 75.00			
	Discharge Point	4	18 + 0.00	53.1		
	Discharge Point	5	18 + 15.00			
	Branch Connection		18 + 25.00			
	Discharge Point	6	18 + 50.00	53.5		
	Discharge Point	7	18 + 75.00			
	Discharge Point	8	19 + 0.00	53.8		
	Discharge Point	9	19 + 25.00			
	Discharge Point	10	19 + 50.00	53.4		
	End of Trench		19 + 62.50	53.4		
			20 + 0.00		53.3	19+93
			20 + 50.00		52.8	
			21 + 0.00		52.1	
			21 + 50.00		51.8	
			22 + 0.00		52.1	
			22 + 50.00		52.6	
			23 + 0.00		53.1	22+98
			23 + 50.00		53.3	

Branch	Item	No.	Station	Trench Bottom Elevation (ft)	Pipe Invert Elevation (ft)	PP Station
N3	End of Trench		23+ 87.50	53.4		
	Discharge Point	1	24+ 0.00	53.7		
	Discharge Point	2	24+ 25.00			
	Discharge Point	3	24+ 50.00	54.2		
	Discharge Point	4	24+ 75.00			
	Discharge Point	5	25+ 0.00	54.7		
	Branch Connection		25+ 12.50			
	Discharge Point	6	25+ 25.00			
	Discharge Point	7	25+ 50.00	55.2		
	Discharge Point	8	25+ 75.00			
	Discharge Point	9	26+ 0.00	55.4		26+02
	Discharge Point	10	26+ 25.00			
	Check Dam		26+ 37.50			
N4	Discharge Point	1	26+ 50.00	55.7		
	Discharge Point	2	26+ 75.00			
	Discharge Point	3	27+ 0.00	55.8		
	Discharge Point	4	27+ 25.00			
	Discharge Point	5	27+ 50.00	56.0		
	Branch Connection		27+ 62.50			
	Discharge Point	6	27+ 75.00			
	Discharge Point	7	28+ 0.00	55.9		
	Discharge Point	8	28+ 25.00			
	Discharge Point	9	28+ 50.00	55.4		
	Discharge Point	10	28+ 75.00			
	Check Dam		28+ 87.50			
N5	Discharge Point	1	29+ 0.00	54.9		29+08
	Discharge Point	2	29+ 25.00			
	Discharge Point	3	29+ 50.00	54.4		
	Discharge Point	4	29+ 75.00			
	Discharge Point	5	30+ 0.00	54.0		
	Branch Connection		30+ 12.50			
	Discharge Point	6	30+ 25.00			
	Discharge Point	7	30+ 50.00	54.1		
	Discharge Point	8	30+ 75.00			
	Discharge Point	9	31+ 0.00	54.4		
	Discharge Point	10	31+ 25.00			
	Check Dam		31+ 37.50			
N6	Discharge Point	1	31+ 50.00	54.6		
	Discharge Point	2	31+ 75.00			
	Discharge Point	3	32+ 0.00	54.9		32+11
	Discharge Point	4	32+ 25.00			
	Discharge Point	5	32+ 50.00	55.1		
	Branch Connection		32+ 62.50			
	Discharge Point	6	32+ 75.00			
	Discharge Point	7	33+ 0.00	55.4		
	Discharge Point	8	33+ 25.00			
	Discharge Point	9	33+ 50.00	55.6		
	Discharge Point	10	33+ 75.00			
	Check Dam		33+ 87.50			
N7	Discharge Point	1	34+ 0.00	55.9		
	Discharge Point	2	34+ 25.00			
	Discharge Point	3	34+ 50.00	56.1		
	Discharge Point	4	34+ 75.00			
	Discharge Point	5	35+ 0.00	56.4		
	Branch Connection		35+ 12.50			
	Discharge Point	6	35+ 25.00			35+24
	Discharge Point	7	35+ 50.00	56.6		
	Discharge Point	8	35+ 75.00			
	Discharge Point	9	36+ 0.00	56.9		
	Discharge Point	10	36+ 25.00			
	Check Dam		36+ 37.50			
N8	Discharge Point	1	36+ 50.00	57.1		
	Discharge Point	2	36+ 75.00			
	Discharge Point	3	37+ 0.00	57.4		
	Discharge Point	4	37+ 25.00			
	Discharge Point	5	37+ 50.00	57.6		
	Branch Connection		37+ 62.50			
	Discharge Point	6	37+ 75.00			
	Discharge Point	7	38+ 0.00	57.9		
	Discharge Point	8	38+ 25.00			38+26
	Discharge Point	9	38+ 50.00	58.1		
	Discharge Point	10	38+ 75.00			
	Check Dam		38+ 87.50			
N9	Discharge Point	1	39+ 0.00	58.4		
	Discharge Point	2	39+ 25.00			
	Discharge Point	3	39+ 50.00	58.3		
	Discharge Point	4	39+ 75.00			
	Discharge Point	5	40+ 0.00	58.1		
	Branch Connection		40+ 12.50			
	Discharge Point	6	40+ 25.00			
	Discharge Point	7	40+ 50.00	58.1		
	Discharge Point	8	40+ 75.00			
	Discharge Point	9	41+ 0.00	57.9		
	Discharge Point	10	41+ 25.00			
	Check Dam		41+ 37.50			41+36.5

Branch	Item	No.	Station	Trench Bottom Elevation (ft)	Pipe Invert Elevation (ft)
N10	Discharge Point	1	41 + 50.00	57.6	
	Discharge Point	2	41 + 75.00		
	Discharge Point	3	42+ 0.00	57.3	
	Discharge Point	4	42+ 25.00		
	Discharge Point	5	42+ 50.00	57.3	
	Branch Connection		42+ 62.50		
	Discharge Point	6	42+ 75.00		
	Discharge Point	7	43+ 0.00	57.8	
	Discharge Point	8	43+ 25.00		
	Discharge Point	9	43+ 50.00	58.6	
	Discharge Point	10	43+ 75.00		
	End of Trench		43+ 87.50	59.1	

KENNETH THOMAS FELLOWS — STATE OF WASHINGTON — 32135 — REGISTERED PROFESSIONAL ENGINEER

5/17/02

EXPIRES 01/05/04

NO.	REVISIONS	DATE	BY
1	REVISED PER ADDENDUM NO. 1 – STATION AND ELEVATIONS	5/14/02	KTF

DESIGNED K. FELLOWS
DRAWN K. STALLMAN
CHECKED
APPROVED

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY
SCALE NONE
DATE MAY 2002

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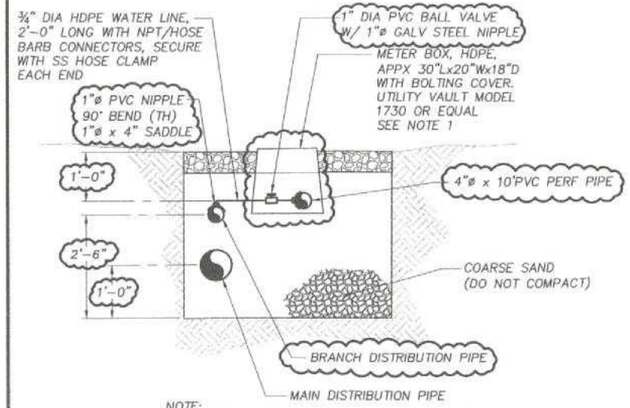
PROJECT NAME
TULALIP EFFLUENT INFILTRATION
THE TULALIP TRIBES
TULALIP, WASHINGTON
JOB NO. 216-1598-012
FILE: 15980120401ASD03

TRENCH DATA

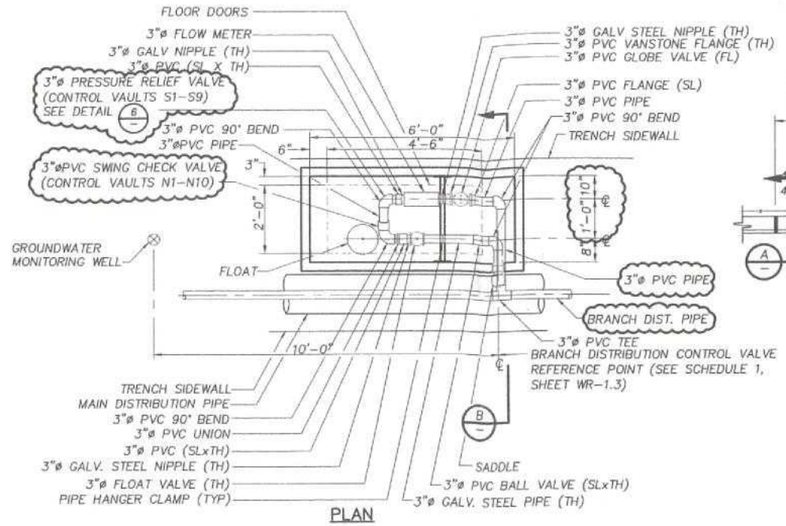
SHEET NO. WR-1.3
3/5

IMAGES: XREF'S: 15980120401A01
DATE: 05/15/02



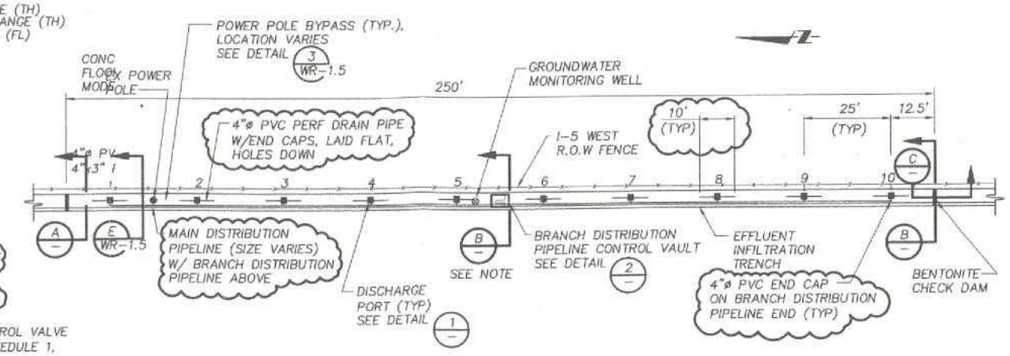
NOTE:
1. SECURE FOLLOWING TAGS TO METER BOX LID:
   A. DISCHARGE POINT NO. (SEE PLAN)
   B. "NON-POTABLE WATER DO NOT DRINK"

DISCHARGE PORT
DETAIL 1
NOT TO SCALE

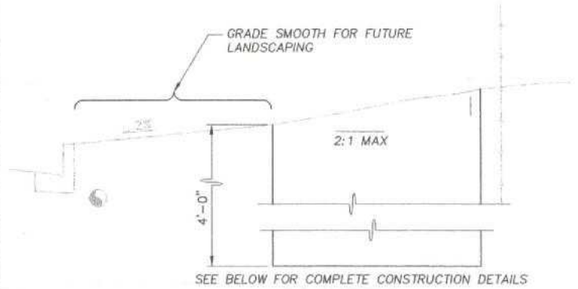


PLAN

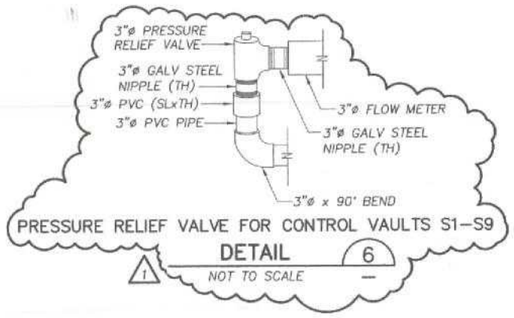
BRANCH DISTRIBUTION CONTROL VAULT
DETAIL 2
SCALE: 1"=2'



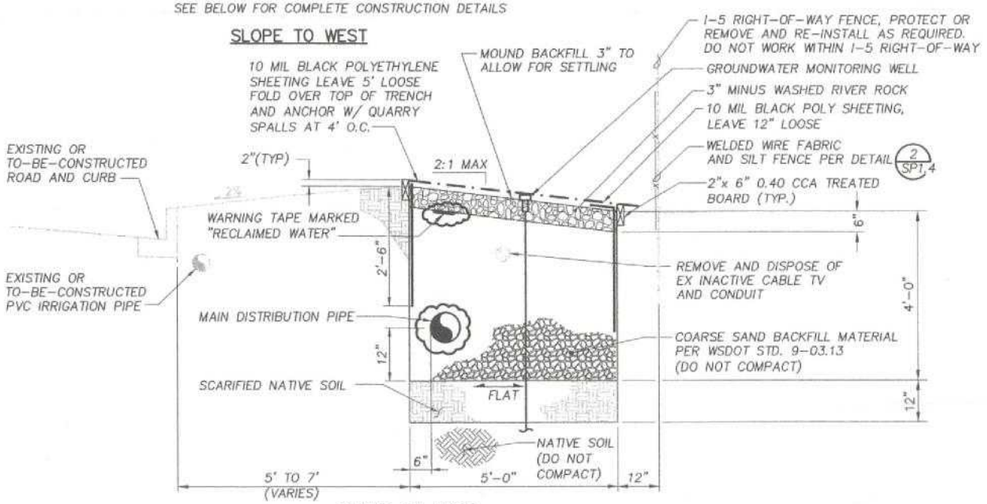
BRANCH DISTRIBUTION
TYPICAL PIPING PLAN 3
SCALE: 1"=20'



SLOPE TO WEST

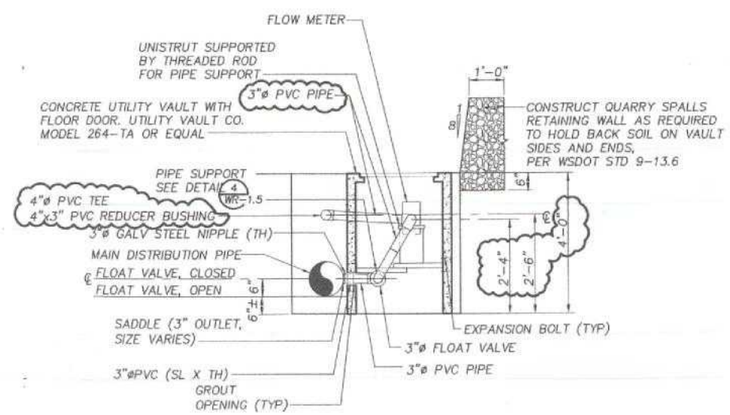


PRESSURE RELIEF VALVE FOR CONTROL VAULTS S1-S9
DETAIL 6
NOT TO SCALE

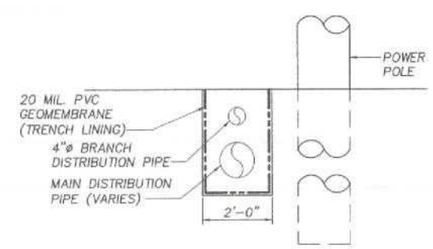


SLOPE TO EAST

TYPICAL EFFLUENT INFILTRATION TRENCH
SECTION A
NOT TO SCALE WR-1.1, 1.2



BRANCH DISTRIBUTION CONTROL VAULT
SECTION B
NOT TO SCALE



POWER POLE BYPASS TRENCH
SECTION F
1/2"=1'-0"

KENNETH THOMAS FELTON, STATE OF WASHINGTON, 32135, REGISTERED PROFESSIONAL ENGINEER
5/17/02
EXPIRES: 01/05/04

NO.	REVISIONS	DATE	BY
1	REVISED PER ADDENDUM NO. 1 – MOVED BRANCH DIST. PIPELINE, ADDED VALVES	5/14/02	KTF

DATE: 05/16/02 WRE-3 MAGES

DESIGNED K. FELLOWS
DRAWN K. STALLMAN
CHECKED
APPROVED

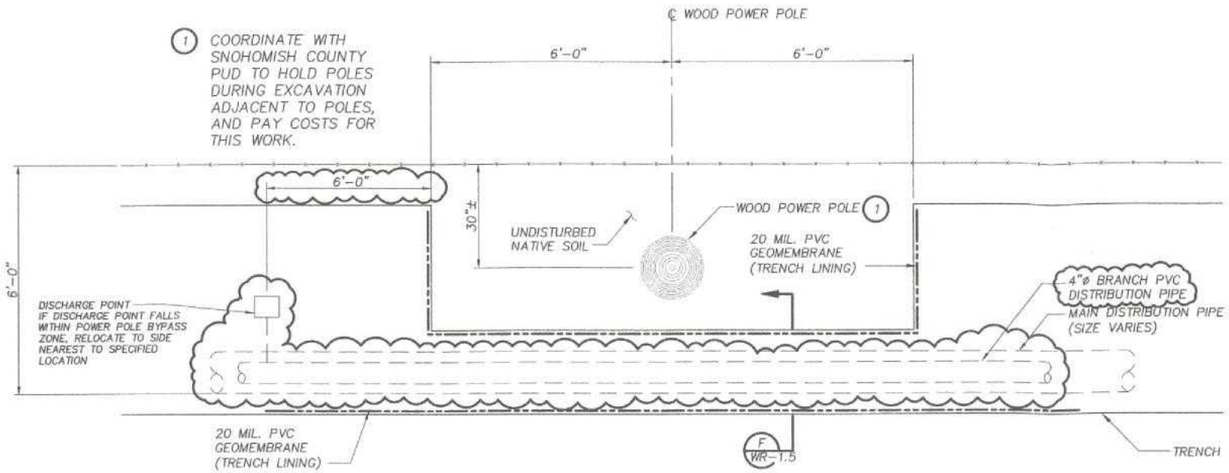
0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY
SCALE AS SHOWN
DATE MAY 2002

Parametrix, Inc. "Quality Service Through Employee Ownership"
• 1231 Fryar Avenue Sumner, WA 98390 Ph: (253) 863-5128 Fax: (253) 863-0946 http://www.parametrix.com
WASHINGTON Sumner Bremerton Kirkland
OREGON Portland

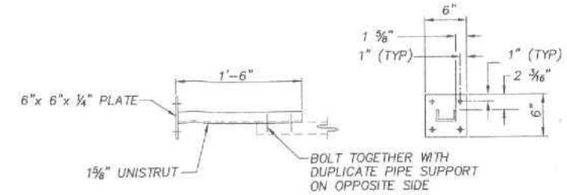
PROJECT NAME
TULALIP EFFLUENT INFILTRATION THE TULALIP TRIBES
TULALIP, WASHINGTON
JOB NO. 216-1598-012
FILE: 15980120401ASD02

DETAILS

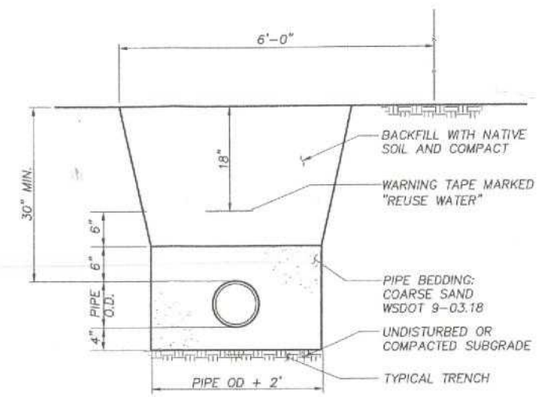
SHEET NO. WR-1.4
4/5



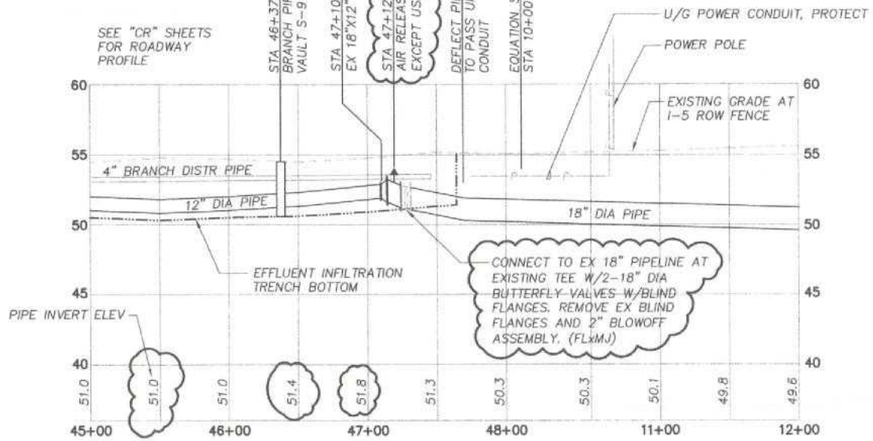
POWER POLE BYPASS TRENCH
DETAIL 3
NOT TO SCALE WR-1.1,1.2



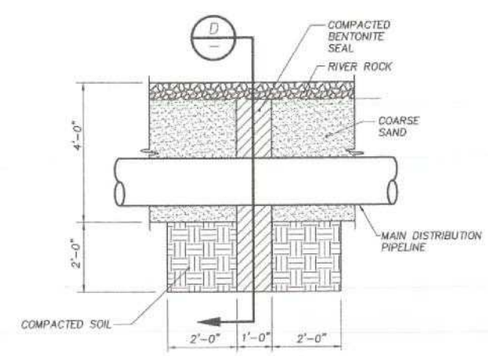
PIPE SUPPORT
DETAIL 4
1"=1' WR-1.5



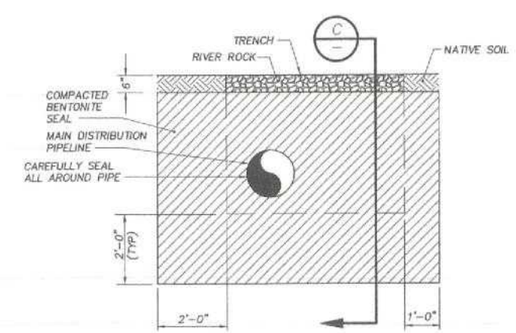
TYPICAL TRENCH
DETAIL 5
NO SCALE TYP



EFFLUENT INFILTRATION TRENCH AND PIPELINE
PROFILE SECTION E
HORIZ: 1"=50'
VERT: 1"=5'



EFFLUENT INFILTRATION TRENCH CHECK DAM
SECTION C
1"=2'



EFFLUENT INFILTRATION TRENCH CHECK DAM
SECTION D
1"=2'

KENNETH THOMAS FELLOWS STATE OF WASHINGTON 32138 REGISTERED PROFESSIONAL ENGINEER
5/17/02
EXPIRES: 01/05/04

NO.	REVISIONS	DATE	BY
1	REVISED PER ADDENDUM NO. 1 – ADDED AIR RELEASE, CHANGED POWER POLE BYPASS	5/14/02	KTF

DESIGNED K. FELLOWS
DRAWN K. STALLMAN
CHECKED
APPROVED

0 1" 2"
TWO INCHES AT FULL SCALE IF NOT SCALE ACCORDINGLY
SCALE AS SHOWN
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SHEET NO. WR-1.5
5/5

MAGES:
XREF'S: 159801204O1Ap
DATE: 04/17/02