City & Borough of Wrangell
P.O. Box 531, Wrangell, AK 99929
T 907.874.3494 / F 907.874.2699
Website www.wrangell.com
Email wrgpm@wrangell.com

ADDENDUM NO. 1

January 12, 2012

PROJECT: Etolin Street and Medical Campus Utilities Assistance

This Addendum forms a part of the Contract Documents and modifies the original Bidding Requirements dated December, 2011 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

This Addendum does *not* change the bid opening date or time.

TECHNICAL SPECIFICATIONS

DIVISION 0- BIDDING AND CONTRACT REQUIREMENTS

1. Section 00005-Table of contents, Division 2, add section 02405-Lift Station Check Valve and Flow Meter

DIVISION 1-GENERAL REQUIRMENTS

1. Section 01025-Measurement and Payment, part 2, paragraph 2.4, sub paragraph B. Add the following:

   "Any rock not meeting specifications as a result of blasting shall be considered incidental to this pay item."

DIVISION 2-SITE WORKS

1. Section 02202-Excavation and Fill, part 3, paragraph 3.3. Add sub paragraph B as follows:

   "Any rock not meeting specifications shall be hauled to the City pit and stockpiled separately from suitable material."

2. Section 02601-Water System, part 2, paragraph 2.4. Delete Paragraph.

3. Section 02601-Water System, part 2, paragraph 2.7, subparagraph B. Add the following:

   "Service saddles shall be suitable for connection to HDPE pipe. Curb stops shall be brass."

DIVISION 16-ELECTRICAL

1. Section 16050-Basic Electrical Materials and Methods, part 1, paragraph 1.6. Add sub paragraph D as follows:

   "Overhead electrical power supply for the medical campus will be provided by City of Wrangell Municipal Light and Power (WML&P) from Wood Street via the medical campus access road. The Contractor is required to provide access and coordination as necessary to WML&P to allow the installation of the overhead system and power drop to the lift station. The proposed schedule is to complete the installation of the overhead power supply by the end of February. "

TECHNICAL SPECIFICATIONS

Add the following attached specification sections:

02405-Lift station Check Valve and Flow Meter

Section
DRAWINGS

Delete the following Drawings and replace with the following attached drawings:

PND
Drawing C4.03– Revision 2 ADDENDUM No. 1
Drawing C5.03– Revision 2 ADDENDUM No. 1

R&M
Drawing C3_ Revision 1 ADDENDUM No. 1
Drawing C7_ Revision 1 ADDENDUM No. 1
Drawing D1_ Revision 1 ADDENDUM No. 1
Drawing D2_ Revision 1 ADDENDUM No. 1

END OF ADDENDUM NO. 1

Etolin Street and Medical Campus
Utilities Assistance – Addendum #1

Section 02405 – Lift Station Check Valve and Flow Meter

1. CHECK VALVES

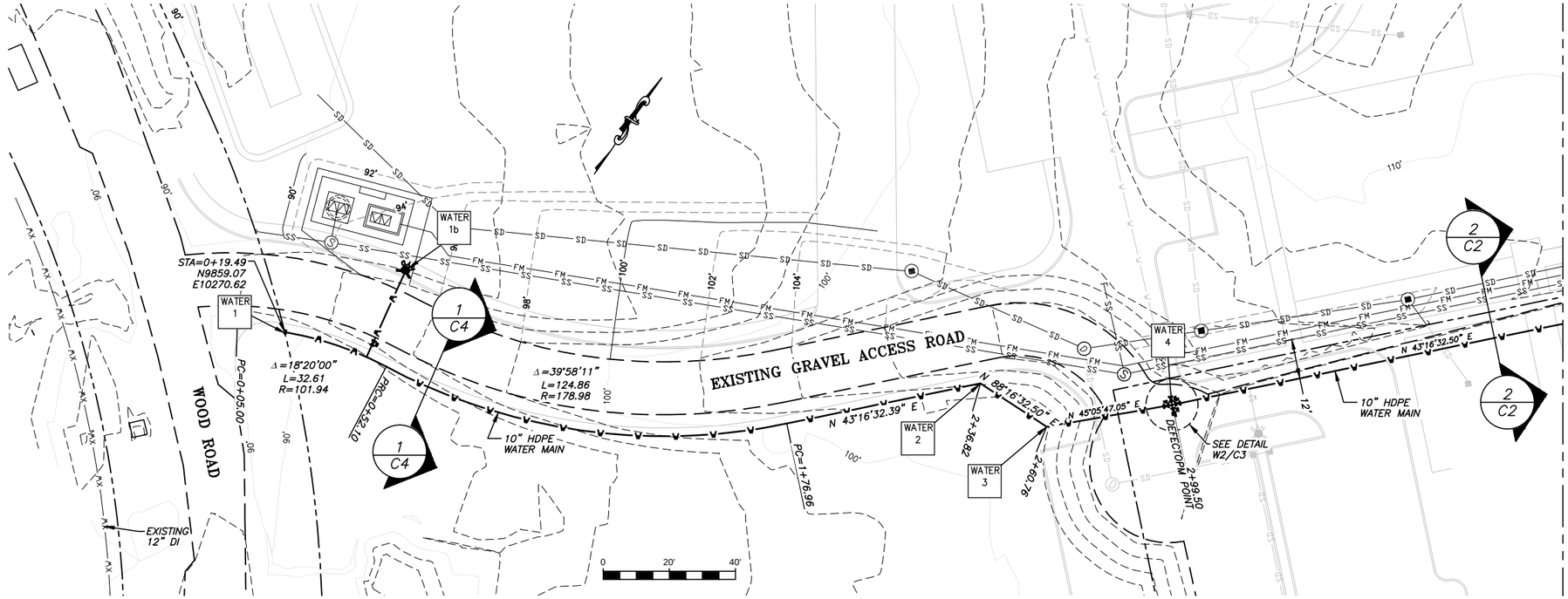
A reduced pressure zone assembly shall be installed to prevent back siphonage and back pressure backflow. Backflow device will conform to AWWA C511-92.

1. The assembly shall consist of pressure differential relief valve.
2. Check valves and captured springs.
3. Two tightly closing shutoff valves.
4. Valve shall have non rising stem
5. Valve shall have epoxy-coated cast iron bodies with bronze seats and stainless steel trim.
6. Valves shall be rated for 175 psi working pressure.
7. Valve shall be **Watt Series 909** or approved equal.

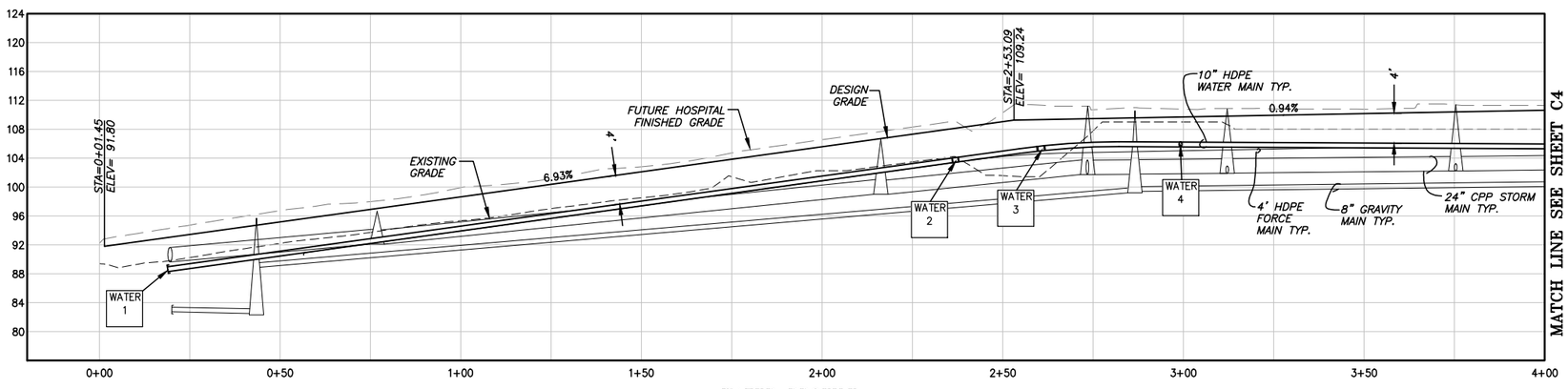
2. FLOW METER

1. A flow meter will be installed up stream of the reduced pressure zone assembly. The flow meter will conform to ANSI/AWWA C701 specifications.
2. Operating Range shall be 30 to 2000 gpm.
3. Meter shall be Bronze with Magnetic Drive Turbo Drive.
4. Meter shall be equipped with a touch read system.
5. Meter shall be **Sensus Model W-2000 DRS,** or approved equal.

End Section 02405



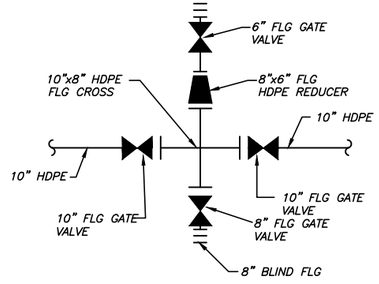
WATER PLAN



WATER PROFILE

LEGEND

- PROPERTY LINE
- EXISTING INDEX CONTOUR
- EXISTING COUNTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED CONTOUR
- SD — PROPOSED STORM MAIN
- SD — FUTURE / EXISTING STORM LINE
- PROPOSED WATER MAIN
- FUTURE / EXISTING WATER LINE
- SS — PROPOSED SANITARY MAIN
- FM — PROPOSED SANITARY FORCE MAIN
- EXISTING EDGE OF GRAVEL
- FUTURE / EXISTING PAVEMENT



W2 / C3

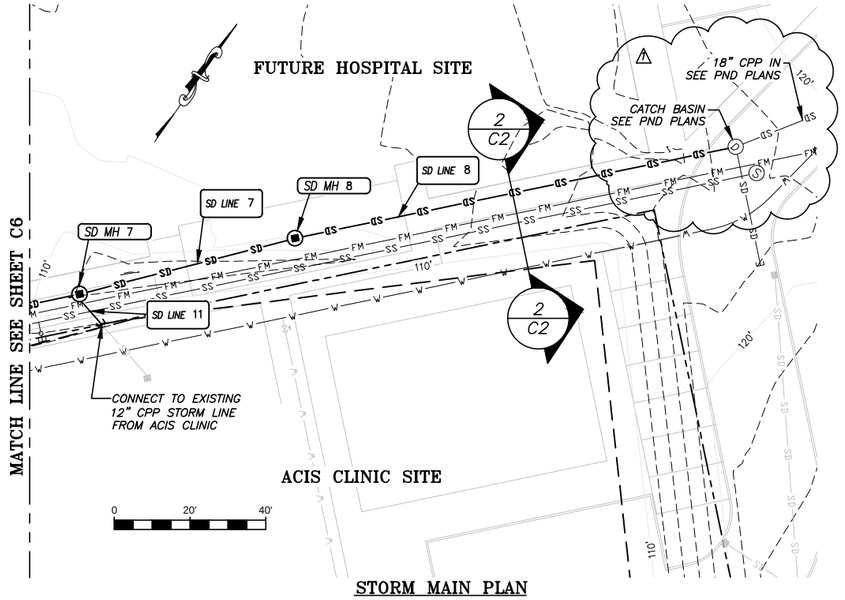
NOT TO SCALE

WATER NOTES

WATER 1: INSTALL: (1) BLIND FLANGE N9859.07 E10270.62	WATER 2: INSTALL: (1) 10" 45° HDPE BEND N9966.85 E10445.58	WATER 4: INSTALL: (1) 10"x8" HDPE FLG. CROSS (1) 8"x6" FLG REDUCER (2) 10" GATE VALVE (1) 8" GATE VALVE (1) 6" GATE VALVE N9994.95 E10503.14 SEE DETAIL W2/C3
WATER 1b: INSTALL: (1) FIRE HYDRANT ASSEMBY N9895.33 E10289.81	WATER 3: INSTALL: (1) 10" 22.5° HDPE BEND N9967.82 E10477.60	

STATE OF ALASKA 49th
ROBERT BADGETT
CE 12347
1/11/12
REGISTERED PROFESSIONAL ENGINEER

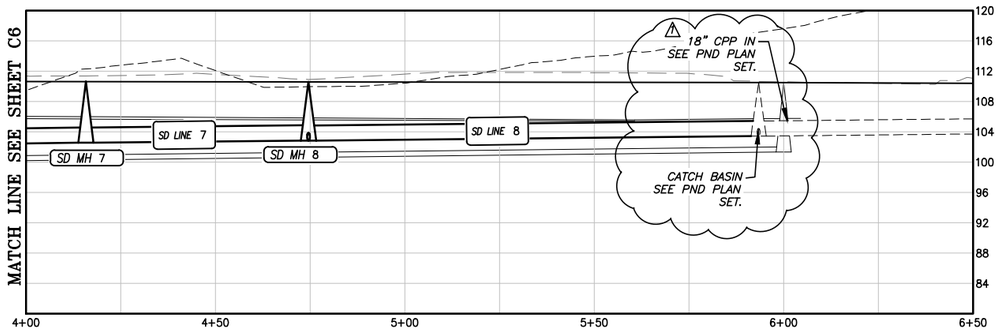
				Designed: RKB	Approved: RKB	R&M ENGINEERING–KETCHIKAN, INC. 355 CARLANNA LAKE ROAD KETCHIKAN, ALASKA 99901	Client: CITY AND BOROUGH OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929	Project: ETOLIN STREET & MEDICAL CAMPUS UTILITIES ASSISTANCE
1/11/12	1	REVISED PER ADDENDUM	RKB	Drawn: RKB	Date: DECEMBER 2011			Sheet Description: ACIS WATER MAIN PLAN & PROFILE STA 0+00 – 4+00
Date	No.	Description	By	Checked: TSS	PROJECT #: 112342			Sheet No. C3
REVISION								



STORM MAIN PLAN

LEGEND

- PROPERTY LINE
- EXISTING INDEX CONTOUR
- EXISTING COUNTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED CONTOUR
- PROPOSED STORM MAIN
- FUTURE / EXISTING STORM LINE
- PROPOSED WATER MAIN
- FUTURE / EXISTING WATER LINE
- PROPOSED SANITARY MAIN
- PROPOSED SANITARY FORCE MAIN
- EXISTING EDGE OF GRAVEL
- FUTURE / EXISTING PAVEMENT



STORM MAIN CONSTRUCTION NOTES

SD MH 7	SD MH 8	SD MH 9
INSTALL 48" MH W/ GRATED RIM STA=4+15.82 N10108.02 E10586.15 RIM=110.63, IE=102.49	INSTALL 48" MH W/ GRATED RIM STA=4+74.58 N10152.72 E10624.28 RIM=110.90, IE=102.76	INSTALL 48" MH STA=5+93.16 N10239.19 E10705.70 RIM=110.49, IE=103.33
SD LINE 7	**SD LINE 8**	**SD LINE 11**
24" CPP L=54.8, SL=0.005	24" CPP L=114.8, SL=0.0058	12" CPP L=15, SL=0.005 (FIELD VERIFY)

STATE OF ALASKA
49th
ROBERT BADGETT
CE 12347
11/11/12
REGISTERED PROFESSIONAL ENGINEER

Date	No.	Description	By
		REVISION	
1/11/12	1	REVISED PER ADDENDUM	RKB

Designed: RKB | Approved: RKB
Drawn: RKB | Date: DECEMBER 2011
Checked: TSS | PROJECT #: 112342

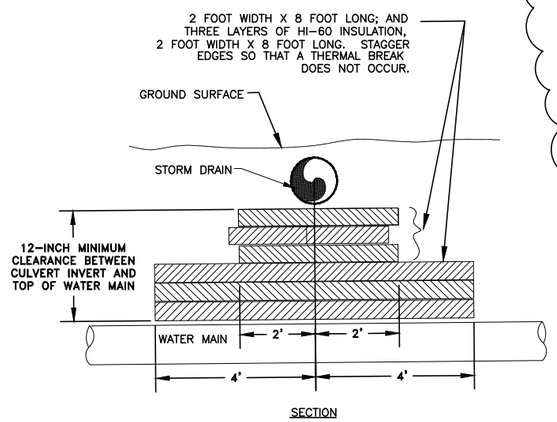
R&M ENGINEERING-KETCHIKAN, INC.
355 CARLANNA LAKE ROAD
KETCHIKAN, ALASKA 99901

Client: CITY AND BOROUGH OF WRANGELL
PO BOX 531
WRANGELL, ALASKA 99929

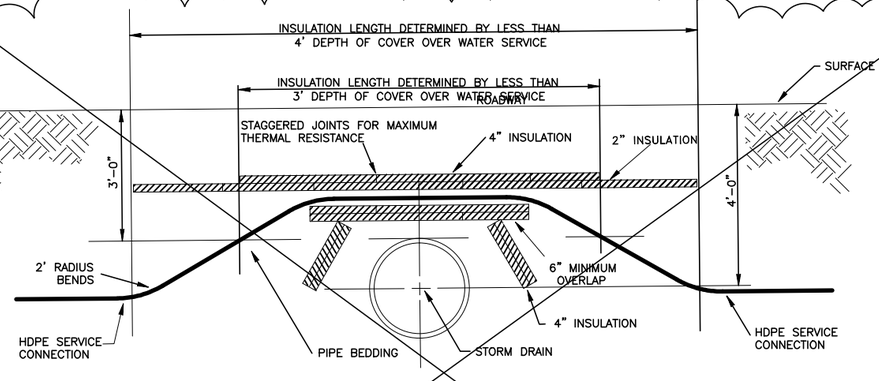
Project: ETOLIN STREET & MEDICAL CAMPUS UTILITIES ASSISTANCE

Sheet Description: STORM MAIN PLAN & PROFILE STA 4+00 – END

Sheet No. C7



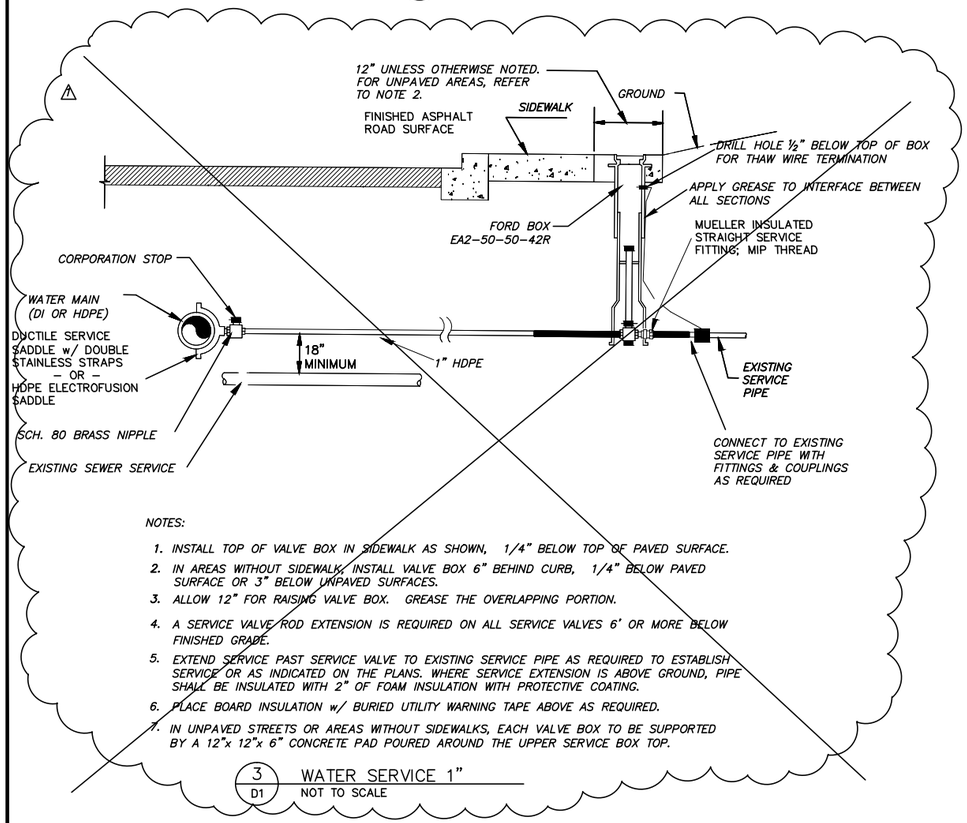
1 D1 RIGID INSULATION DETAIL
NOT TO SCALE



NOTES:

1. *MINIMUM WIDTH OF HI-60 PROTECTING THE SERVICE LINE IN THE TRENCH IS 2 FEET.*
2. *INSULATION BOARDS SHALL BE HI-60 AND MEET AASHTO M-230 EXCEPT THAT EXTRUSION IS NOT REQUIRED.*
3. INDIVIDUAL SIDE SEWER SERVICES REMAIN BELOW THE STORM DRAIN. SIDE SEWERS TO BE OFFSET FROM AND AT LEAST 12 INCHES BELOW THE WATER SERVICE

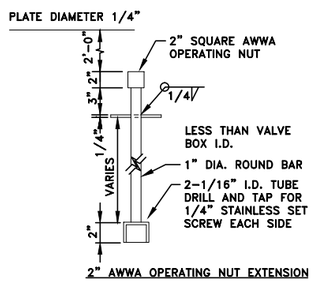
2 D1 WATER SERVICE INSULATION DETAIL
NOT TO SCALE



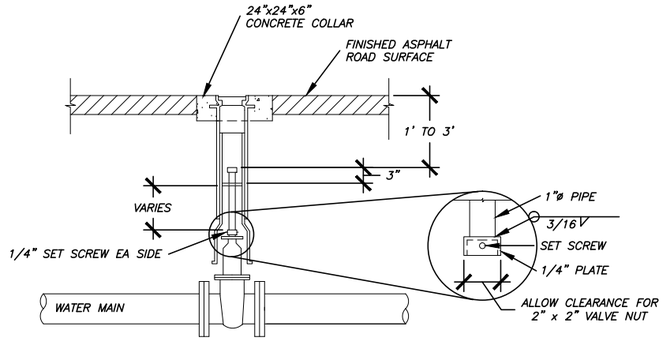
NOTES:

1. *INSTALL TOP OF VALVE BOX IN SIDEWALK AS SHOWN, 1/4" BELOW TOP OF PAVED SURFACE.*
2. *IN AREAS WITHOUT SIDEWALK, INSTALL VALVE BOX 6" BEHIND CURB, 1/4" BELOW PAVED SURFACE OR 3" BELOW UNPAVED SURFACES.*
3. *ALLOW 12" FOR RAISING VALVE BOX. GREASE THE OVERLAPPING PORTION.*
4. *A SERVICE VALVE ROD EXTENSION IS REQUIRED ON ALL SERVICE VALVES 6' OR MORE BELOW FINISHED GRADE.*
5. *EXTEND SERVICE PAST SERVICE VALVE TO EXISTING SERVICE PIPE AS REQUIRED TO ESTABLISH SERVICE OR AS INDICATED ON THE PLANS. WHERE SERVICE EXTENSION IS ABOVE GROUND, PIPE SHALL BE INSULATED WITH 2" OF FOAM INSULATION WITH PROTECTIVE COATING.*
6. *PLACE BOARD INSULATION w/ BURIED UTILITY WARNING TAPE ABOVE AS REQUIRED.*
7. *IN UNPAVED STREETS OR AREAS WITHOUT SIDEWALKS, EACH VALVE BOX TO BE SUPPORTED BY A 12"x 12"x 6" CONCRETE PAD POURED AROUND THE UPPER SERVICE BOX TOP.*

3 D1 WATER SERVICE 1"
NOT TO SCALE



4 D1 VALVE EXTENSION
NOT TO SCALE



NOTE: EXTENSION IS REQUIRED ON ALL VALVES WHERE OPERATING NUT IS 6 FT OR MORE BELOW FINISHED SURFACE.

NOTES:

1. NEW VALVE BOX TO ALLOW FOR 12" MINIMUM VERTICAL ADJUSTMENT
2. THREADED VALVE BOX SECTIONS ARE NOT ALLOWED. CONTRACTOR SHALL REMOVE THREADED PORTIONS OF THE VALVE BOX WITH CUT-OFF SAW
3. CONTRACTOR SHALL APPLY GREASE TO ALL INTERFACES BETWEEN VALVE BOX SECTIONS.
4. COMPACTION AROUND VALVE BOX INSTALLATION IS CRITICAL. CONTRACTOR SHALL EMPLOY MECHANICAL TAMPING METHODS TO ENSURE THAT MATERIAL AROUND VALVE BOX REACHES 95% OF MAXIMUM COMPACTION.
5. CONTRACTOR SHALL INSTALL A 6" MINIMUM THICKNESS OF D-1 BEDDING AROUND VALVE BOX DURING BACKFILL.
6. EXTENSION IS REQUIRED ON ALL VALVES WHERE OPERATING NUT IS 6.0' OR MORE BELOW FINISHED SURFACE.

5 D1 MAIN LINE VALVE W/ OPERATING ROD TYP.
NOT TO SCALE

STATE OF ALASKA 49th
ROBERT BADGETT
CE 12347
11/11/12
REGISTERED PROFESSIONAL ENGINEER

Date	No.	Description	By
		REVISION	
1/11/12	1	REVISED PER ADDENDUM	RKB

Designed: RKB | Drawn: RKB | Checked: TSS | Approved: RKB | Date: DECEMBER 2011 | PROJECT #: 112342

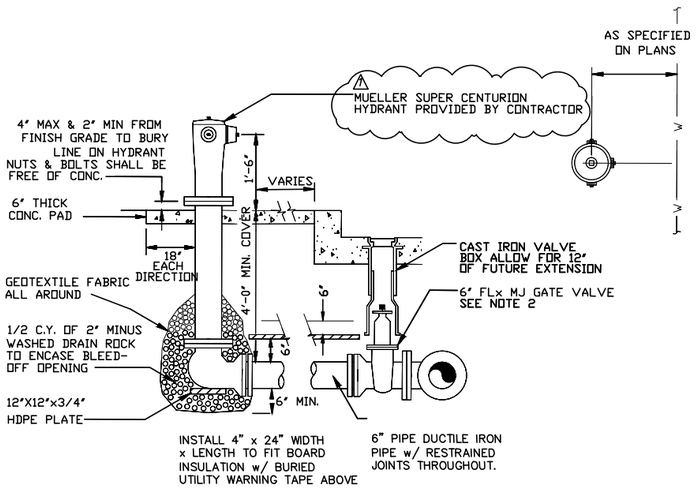
R&M ENGINEERING-KETCHIKAN, INC.
355 CARLANNA LAKE ROAD
KETCHIKAN, ALASKA 99901

Client: CITY AND BOROUGH OF WRANGELL
PO BOX 531
WRANGELL, ALASKA 99929

Project: ETOLIN STREET & MEDICAL CAMPUS UTILITIES ASSISTANCE

Sheet Description: WATER DETAILS

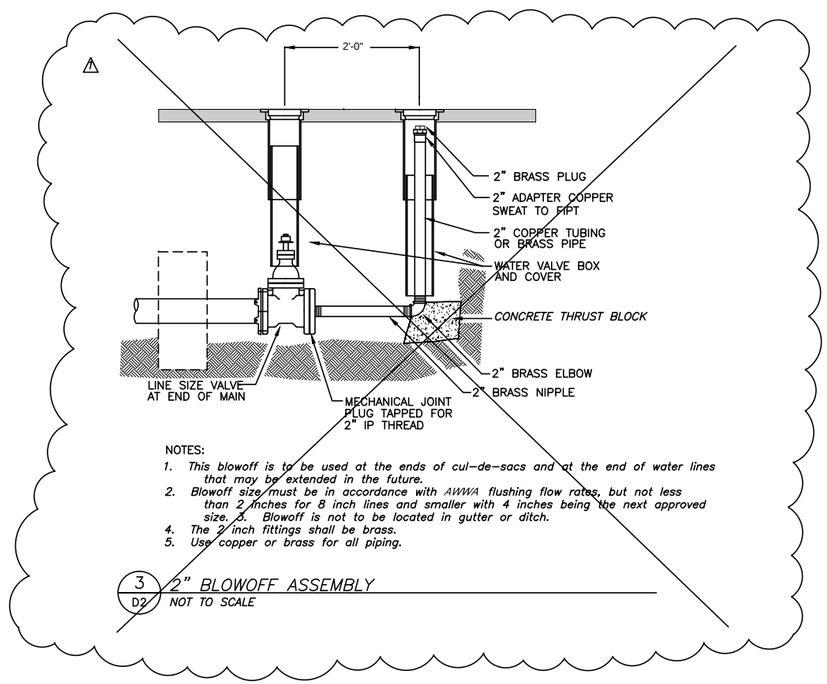
Sheet No. D1



NOTES:

1. ALL BOLT THREADS TO BE GREASED PRIOR TO INSTALLATION.
2. MECHANICAL RESTRAINED JOINTS TO BE USED THROUGHOUT.
3. HYDRANT PAINT SHALL BE SPECIFIED BY THE ENGINEER.
4. DOUBLE DIPPED GALVANIZED NUTS AND BOLTS SHALL BE FREE OF CONCRETE.
5. PLACE BURIED UTILITY WARNING TAPE 6" ABOVE THE HYDRANT LEAD.
6. THRUST BLOCK MAY BE OMITTED IF PIPE BEYOND VALVE IS CONNECTED TOGETHER w/ RESTRAINED JOINTS 40 FEET EACH WAY
7. D-1 MUST BE PLACED AROUND ALL VALVE BOXES

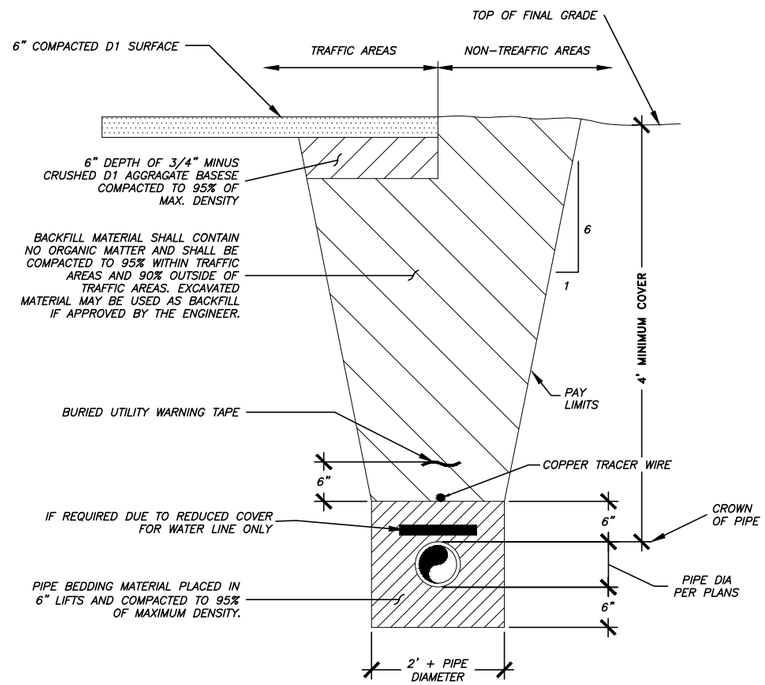
1 / D2 TYP. FIRE HYDRANT DETAIL
NOT TO SCALE



NOTES:

1. *This blowoff is to be used at the ends of cul-de-sacs and at the end of water lines that may be extended in the future.*
2. *Blowoff size must be in accordance with AWWA flushing flow rates, but not less than 2 inches for 8 inch lines and smaller with 4 inches being the next approved size. X. Blowoff is not to be located in gutter or ditch.*
4. *The 2 inch fittings shall be brass.*
5. *Use copper or brass for all piping.*

3 / D2 2" BLOWOFF ASSEMBLY
NOT TO SCALE



NOTES (A):

1. *BACKFILL MATERIAL SHALL BE PLACED IN 12" MAXIMUM LIFTS AS STATED IN SPECIFICATIONS.*
2. *PIPE BEDDING MATERIAL MUST BE PLACED IN 6" MAX LIFTS BETWEEN COMPACTION.*
3. *TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED SLOPE IS FOR PAY QUANTITY DETERMINATION ONLY FOR IMPORTED BACKFILL GRAVEL AND RESURFACING REQUIREMENTS.*
4. *IF UNSUITABLE PIPE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION, ENGINEER MAY DIRECT THE CONTRACTOR TO OVER-EXCAVATE AND BACKFILL WITH SUITABLE MATERIAL.*
5. *THE DITCHLINE, IF ONE EXISTS, SHALL BE RESHAPED IN SUCH A MANNER TO ALLOW POSITIVE DRAINAGE TO MATCH PRE-CONSTRUCTION CONDITIONS.*
6. *TRENCH SECTION APPLICABLE FOR BOTH SEWER, WATER PIPE AND STORM.*

NOTES (B):

1. *INSULATION BOARD JOINTS SHALL BE LAPPED.*
2. *MINIMUM DEPTH OF COVER SHALL BE 3'-0" UNLESS SHOWN OTHERWISE ON DRAWINGS OR PRIOR APPROVAL IS GRANTED FROM ENGINEER.*

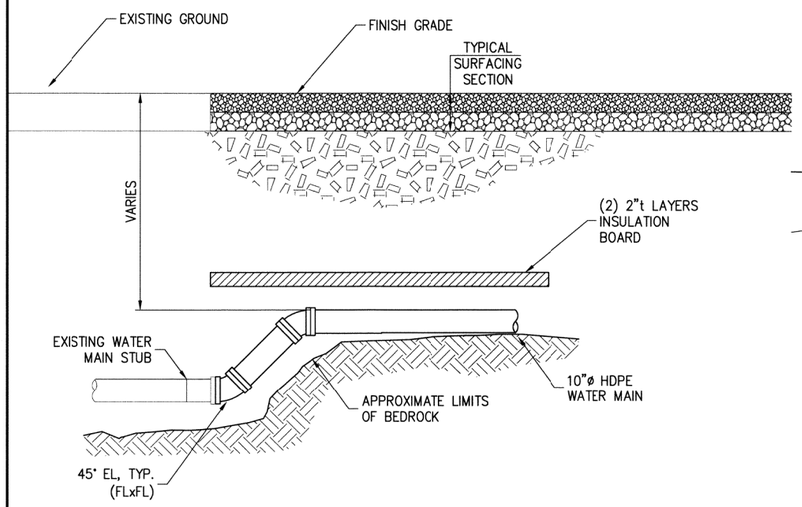
"H" DEPTH OF COVER	"T" INSULATION THICKNESS
4'0" OR GREATER	NONE REQUIRED
3'6" OR GREATER	2 INCHES
3'0" OR GREATER	4 INCHES

3. *ALL IINSULATION SHALL BE DOW HI-60 EXTRUDED POLYSTYRENE (BLUE BOARD) OR APPROVED EQUAL.*

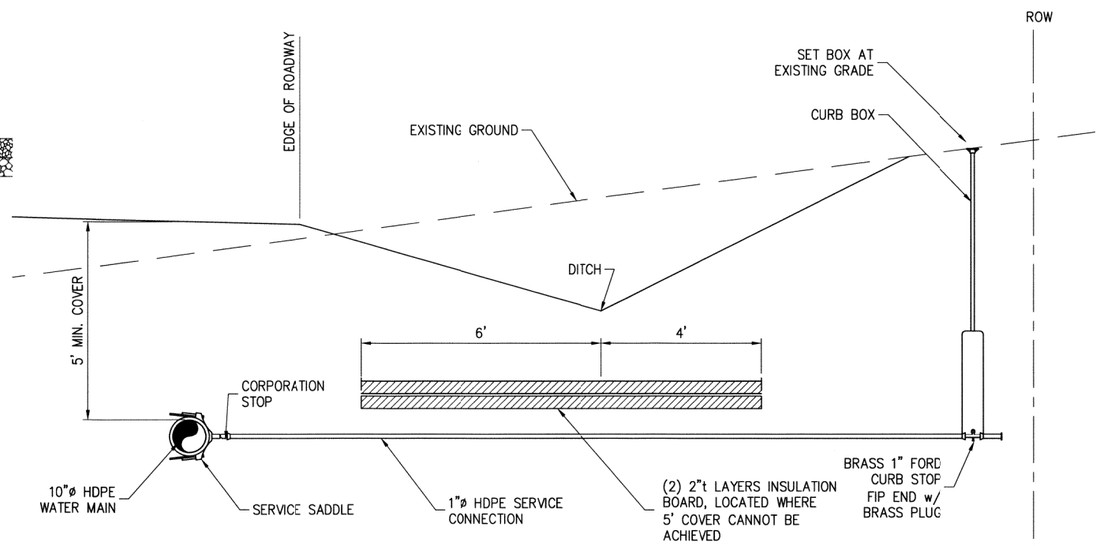
2 / D2 TYPICAL TRENCH DETAIL
NOT TO SCALE

STATE OF ALASKA 49th
ROBERT BADGETT
CE 12342
11/11/12
REGISTERED PROFESSIONAL ENGINEER

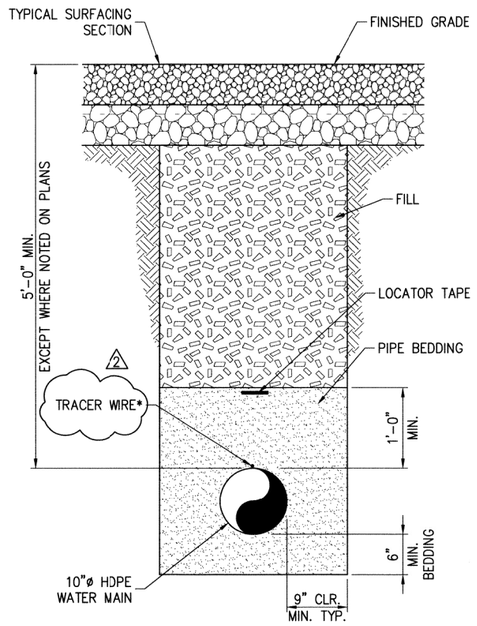
				Designed: RKB	Approved: RKB	R&M ENGINEERING-KETCHIKAN, INC. 355 CARLANNA LAKE ROAD KETCHIKAN, ALASKA 99901	Client: CITY AND BOROUGH OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929	Project: ETOLIN STREET & MEDICAL CAMPUS UTILITIES ASSISTANCE	Sheet Description: WATER DETAILS	Sheet No. D2
1/11/12	1	REVISED PER ADDENDUM	RKB	Drawn: RKB	Date: DECEMBER 2011					
Date	No.	Description	By	Checked: TSS	PROJECT #: 112342					
REVISION										



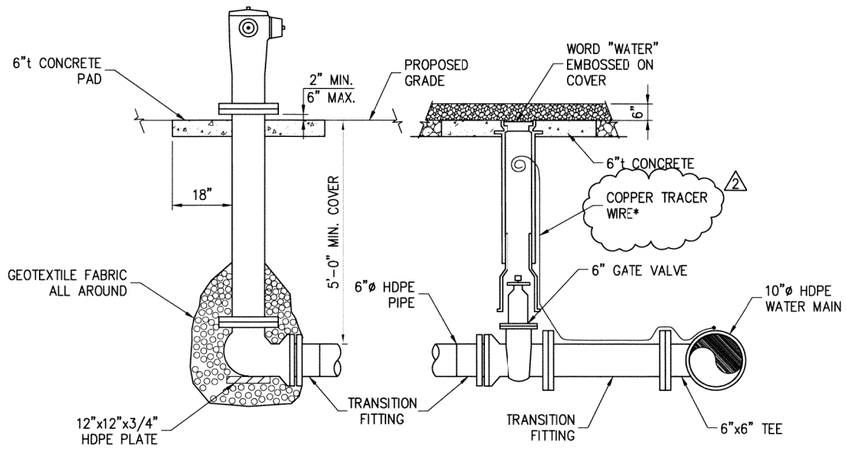
POINT OF CONNECTION



1" SERVICE CONNECTION



TYPICAL PIPE TRENCH



HYDRANT ASSEMBLY

NOTE *:

INSTALL INSULATED NO. 14 GAUGE, CONTIGUOUS, COPPER, TRACE WIRE ALONG ENTIRE LENGTH OF WATER MAIN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. AT EACH VALVE BOX, CONNECT A BRANCH TRACE WIRE TO EXTEND TO THE SURFACE. DRILL HOLE IN VALVE BOX WITHIN 4-INCHES OF SURFACE AND COIL ENOUGH WIRE INSIDE OF EACH VALVE BOX TO EXTEND 12" ABOVE FINISH GRADE.

FOR BID

P N D ENGINEERS, INC.
811 First Avenue, Suite 570
Seattle, Washington 98104
Phone: 206-624-1387
Fax: 206-624-1388
mail@pndengineers.com

STATE OF ALASKA 49TH Gary Robert Watters CE 12987 REGISTERED PROFESSIONAL ENGINEER
1/12/2012

REV	DATE	DESCRIPTION
2	1/12	ADDENDUM No. 1
1	12/11	ISSUED FOR BID

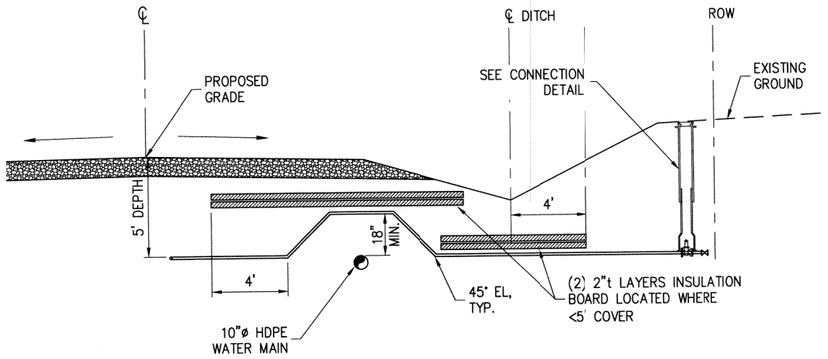
PROJECT: **ETOLIN STREET AND MEDICAL CAMPUS UTILITIES ASSISTANCE**

TITLE: **WATER MAIN DETAILS**

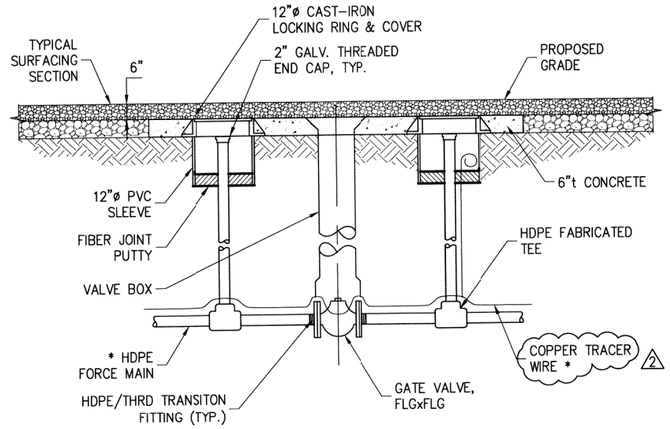
DESIGNED BY:	SR	PROJECT NO:	114018.02
DRAWN BY:	DRH	DATE:	JAN. 2012
CHECKED BY:	GW	SCALE:	NOTED

SHEET NO: **C4.03**

1/12/12
Drawings\2011\114018.02 - Etolin St. and Medical Campus Utilities Assistance\For Rebid\114018.02-C4.03_ADD1.dwg

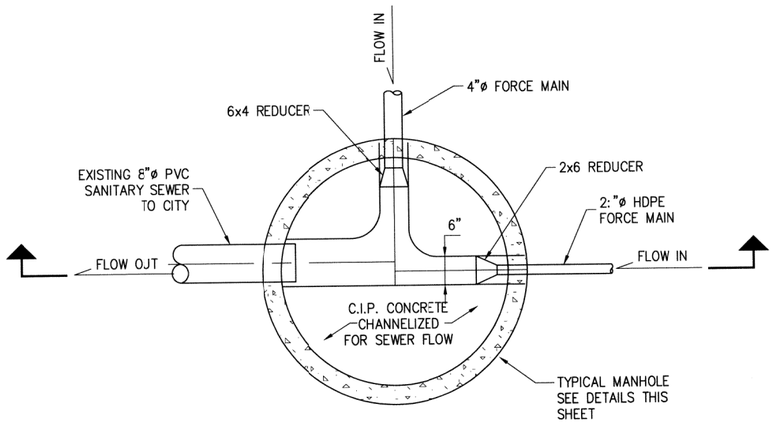


FORCEMAIN SERVICE CONNECTION

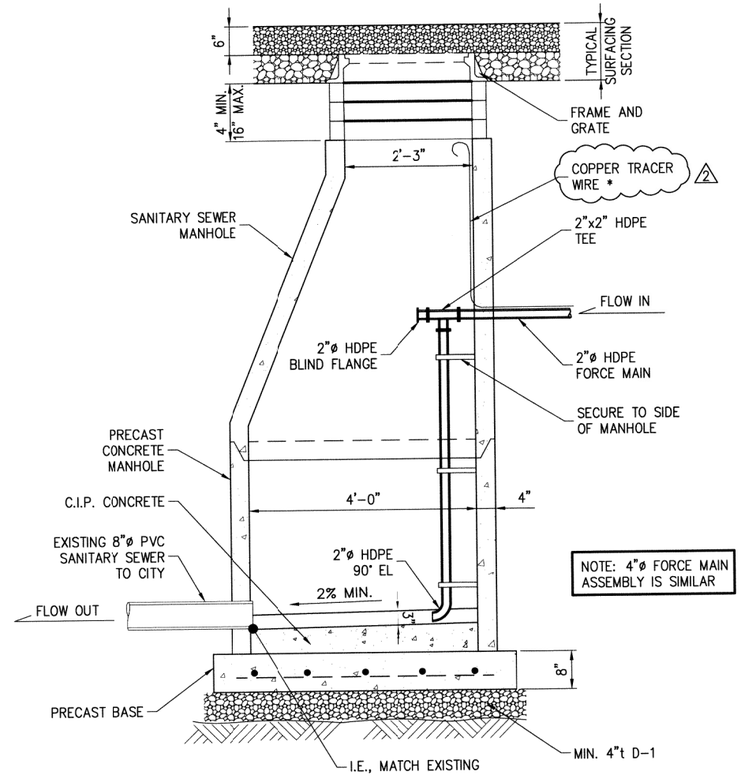


SEWER FORCEMAIN CLEAN OUT DETAIL

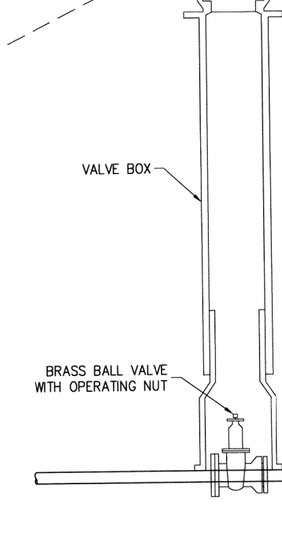
* PIPE DIAMETER VARIES



SANITARY SEWER MANHOLE 1 PLAN



MANHOLE 1 SECTION

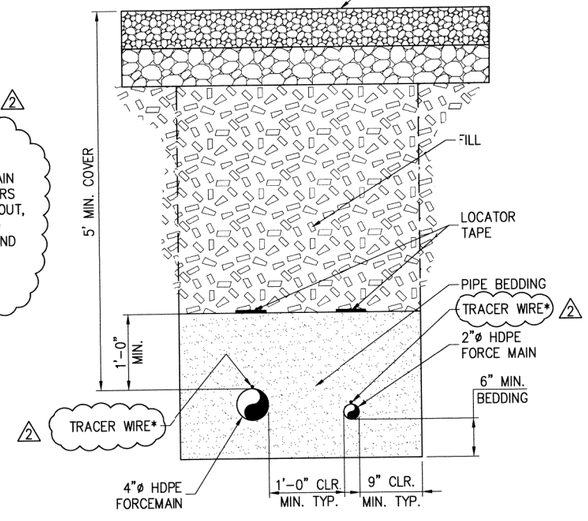


CONNECTION DETAIL

NOTE *:

INSTALL INSULATED NO. 14 GAUGE, CONTIGUOUS, COPPER, TRACE WIRE ALONG ENTIRE LENGTH OF FORCE MAIN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. AT EACH CLEANOUT, CONNECT A BRANCH TRACE WIRE TO TERMINATE INSIDE OF PVC SLEEVE AND MANHOLE WITH ENOUGH COILED TO EXTEND 12" ABOVE FINISH GRADE.

2



TYPICAL FORCEMAIN TRENCH

FOR BID

P N D ENGINEERS, INC.
811 First Avenue, Suite 570
Seattle, Washington 98104
Phone: 206-624-1387
Fax: 206-624-1388
mail@pndengineers.com

STATE OF ALASKA 49TH Gary Robert Watters CE 12987 REGISTERED PROFESSIONAL ENGINEER
1/12/2012

REV	DATE	DESCRIPTION
2	1/12	ADDENDUM No. 1
1	12/11	ISSUED FOR BID

REVISIONS

PROJECT: **ETOLIN STREET AND MEDICAL CAMPUS UTILITIES ASSISTANCE**

TITLE: **FORCE MAIN DETAILS**

DESIGNED BY:	SR	PROJECT NO:	114018.02	SHEET NO: C5.03
DRAWN BY:	DRH	DATE:	JAN. 2012	
CHECKED BY:	GW	SCALE:	NOTED	

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