

Bernita Street Forc Main Replacement - Test Hole Locations for Survey

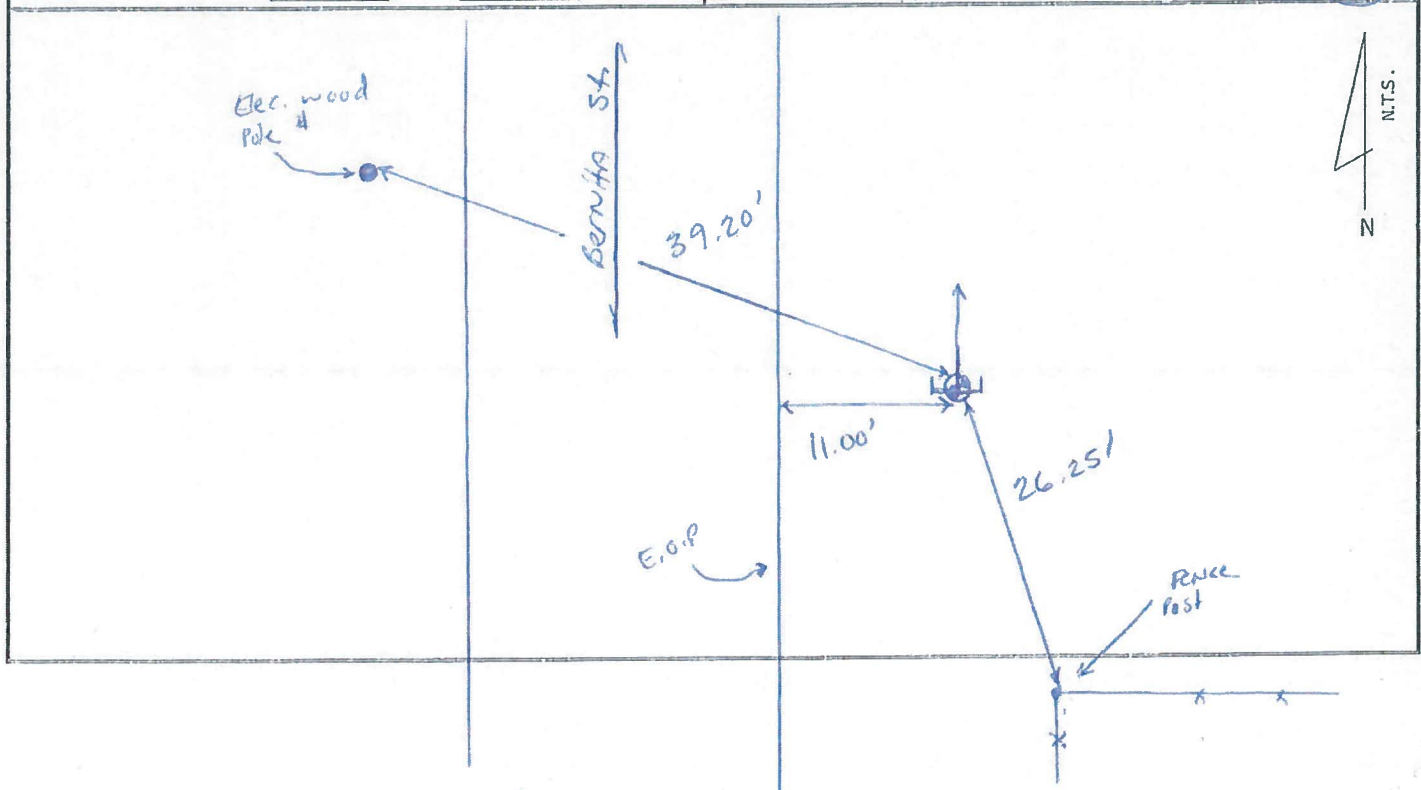
Boring No.	LAT	LONG	NORTHING	EASTING	Station	Offset	GR ELEV	TOP PIPE ELEV	PIPE MATERIAL
TH-1	N30° 20' 10.51"	W81° 35' 57.64"	2182715.76	467092.89	26+41.67	21.80 R	46.74	44.12	18"CI FM
TH-2	N30° 19' 54.16"	W81° 35' 57.59"	2181064.27	467088.58	19+33.96	12.33 R	29.61	27.14	6"ACP WATER
TH-3	N30° 19' 54.39"	W81° 35' 57.63"	2181086.89	467085.13	19+33.92	10.55 L	29.83	27.19	2"GALV WATER
TH-4	N30° 20' 05.17"	W81° 35' 57.61"	2182175.68	467093.07	21+01.58	21.98 R	37.13	33.4	36"DI WATER
TH-5	N30° 20' 05.28"	W81° 35' 57.61"	2182187.61	467093.10	21+13.51	22.01 R	36.93	33.93	16"DI WATER
TH-6	N30° 20' 10.53"	W81° 35' 57.66"	2182718.10	467091.20	26+44.00	20.11 R		TOP NUT 44.92	18"FM VALVE
TH-7	N30° 19' 50.29"	W81° 36' 05.33"	2180676.27	466408.18	N/A	N/A	22.84	21.19	8"PVC WATER
TH-8	N30° 19' 50.29"	W81° 36' 05.31"	2180676.33	466410.41	N/A	N/A	22.86	19.32	16"PVC FM
TH-9	NOTHING FOUND								N/A
TH-10	N30° 19' 53.30"	W81° 36' 06.56"	2180980.79	466302.48	11+41.57	17.23 L	24.7	21.5	8"ACP WATER
TH-11	N30° 19' 54.46"	W81° 35' 57.11"	2181094.21	467131.19	19+80.56	10.93 L	29.8	27.38	2"GALV WATER
TH-12	N30° 19' 59.17"	W81° 35' 57.98"	2181570.54	467057.77	14+96.45	13.32 L	31.14	27.35	4"PVC SANITARY

VACUUM TEST HOLE REPORT

Test Hole No.: 1

FRA Job No.: 2984

PROJECT NAME: <u>Bernita St Force Main Replacement</u>		Subcontract No.:	WORK ORDER No.: <u>16</u>
LOCATE REQUESTED BY: <u>R.E. Holland & Associates</u>		PAVEMENT TYPE:	
REQUESTED LOCATE: GAS, STORM, SAN, COMMUNICATION <u>FORCE MAIN</u> , CATV, WATER, TEL, ELECTRIC, RAW WATER UNKNOWN, RECLAIMED WATER, N/A, FIBER OPTIC CABLE		ASPHALT, CONCRETE, ASPHALT OVER CONCRETE GRAVEL, BRICKS, SIDEWALK, <u>N/A</u>	
LOCATED UTILITY: GAS, STORM, SAN, COMMUNICATION <u>FORCE MAIN</u> , CATV, WATER, TEL, ELECTRIC, RAW WATER UNKNOWN, RECLAIMED WATER, N/A, FIBER OPTIC CABLE		PAVEMENT CONDITION: GOOD, FAIR, POOR, <u>N/A</u>	
MATERIAL AS FOUND: D/I, <u>C/I</u> , STEEL, WRAP-STEEL, TILE PLASTIC, TERRA COTTA, ACP, RCP, CMP, PVC, UNK DB CABLE, SMOOTH POUR, ROUGH POUR, OTHER		SOIL CONDITIONS: HARD, <u>SOFT</u> , WET, MOIST, <u>DRY</u> SAND, CLAY, ROCK, <u>DIRT</u> , SOLID-ROCK	
SIZE AS FOUND: <u>18"</u> SIZE EXPECTED: <u>18"</u>		SHEET No.: <u>N/A</u>	PROPOSED: New Utilities, Roadway Mast Arm/Signal Pole, Drainage
UTILTY CONDITION: <u>GOOD</u> , FAIR, POOR, N/A		FORM BY: C.Reyes	ASSISTED BY: <u>A.M.</u>
RIBBON INSTALLED: BLUE, YELLOW, RED, <u>GREEN</u> N/A, ORANGE, WHITE, PINK, PURPLE		NUMBER OF HOLES: 1	Date: <u>3-29-18</u> TIME: _____
		INSTALLED: PK <u>HUB</u> , STEEL, PIN, CHIS "X", CHIS BOX	
		AT: <u>CROWN</u>	EDGE OF UTILITY:
		SURVEY PIN LOCATED BY: N/A	
		JOB MEASUREMENT TYPE: <u>TENTHS</u> , METRIC, INCHES	
		NOTES: Excavated to a depth of <u>2.62'</u> <u>Found a 18" C.I. F.M. w/ Plug.</u>	
		SURVEY INFORMATION	
		GIVEN ELEVATION _____	
		STATION (±) <u>N/A</u>	OFFSET: <u>11.00'</u> LT / <u>RT</u>



VACUUM TEST HOLE REPORT

Test Hole No.: 2
FRA Job No.: 2984

PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.:		WORK ORDER No.: 16	
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:			
REQUESTED LOCATE: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		<u>ASPHALT</u> CONCRETE ASPHALT OVER CONCRETE GRAVEL BRICKS SIDEWALK N/A			
LOCATED UTILITY: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		PAVEMENT CONDITION: <u>GOOD</u> FAIR POOR N/A			
MATERIAL AS FOUND: D/I C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA <u>ACP</u> RCP CMP PVC UNK DB CABLE SMOOTH POUR ROUGH POUR OTHER		SOIL CONDITIONS: HARD <u>SOFT</u> WET MOIST <u>DRY</u> SAND CLAY ROCK <u>DIRT</u> SOLID-ROCK			
SIZE AS FOUND: <u>6"</u> SIZE EXPECTED: <u>6"</u>		SHEET No.: <u>4</u>		PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage	
UTILITY CONDITION: <u>GOOD</u> FAIR POOR N/A		FORM BY: C.Reyes		ASSISTED BY: <u>Am</u>	
RIBBON INSTALLED: <u>BLUE</u> YELLOW RED GREEN N/A ORANGE WHITE PINK PURPLE		NUMBER OF HOLES: 1		Date: <u>4-6-18</u> TIME: _____	
INSTALLED: <u>PK</u> HUB STEEL PIN CHIS "X" CHIS BOX		AT: <u>CROWN</u> EDGE OF UTILITY:			
SURVEY PIN LOCATED BY: N/A		JOB MEASUREMENT TYPE: <u>TENTHS</u> METRIC INCHES			
		NOTES: Excavated to a depth of <u>2.47'</u> Found a 6" A.C. w/m (SEPA water & sewer)			
SURVEY INFORMATION					
GIVEN ELEVATION _____					
STATION (±) <u>N/A</u> OFFSET: <u>N/A</u> LT / RT					

VACUUM TEST HOLE REPORT

Test Hole No.: 3
FRA Job No.: 2984

PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.:		WORK ORDER No.: 16	
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:			
REQUESTED LOCATE: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		<u>ASPHALT</u> CONCRETE ASPHALT OVER CONCRETE GRAVEL BRICKS SIDEWALK N/A			
LOCATED UTILITY: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		PAVEMENT CONDITION: <u>GOOD</u> FAIR POOR N/A			
MATERIAL AS FOUND: D/I C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA ACP RCP CMP PVC UNK DB CABLE SMOOTH POUR ROUGH POUR <u>GALV</u> OTHER		SHEET No.: <u>4</u>		PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage	
SIZE AS FOUND: <u>2"</u> SIZE EXPECTED: <u>2"</u>		FORM BY: C.Reyes		ASSISTED BY: <u>AM</u>	
UTILTY CONDITION: GOOD FAIR <u>POOR</u> N/A		NUMBER OF HOLES: 1		Date: <u>4-6-18</u> TIME: _____	
RIBBON INSTALLED: <u>BLUE</u> YELLOW RED GREEN N/A ORANGE WHITE PINK PURPLE		INSTALLED: <u>PK HUB</u> STEEL PIN CHIS "X" CHIS BOX		AT: <u>CROWN</u> EDGE OF UTILITY:	
		SURVEY PIN LOCATED BY: N/A			
		JOB MEASUREMENT TYPE: <u>TENTHS</u> METRIC INCHES			
		NOTES: Excavated to a depth of <u>2.64'</u> <u>Found a 2" GALV. w.m. (C&A water & sewer)</u>			
		SURVEY INFORMATION			
		GIVEN ELEVATION _____			
		STATION (±) <u>N/A</u> OFFSET: <u>23.40'</u> (LT) / RT			

VACUUM TEST HOLE REPORT

Test Hole No.: 4
FRA Job No.: 2984

PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.:	WORK ORDER No.: 16
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:	
REQUESTED LOCATE: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		ASPHALT CONCRETE ASPHALT OVER CONCRETE GRAVEL BRICKS SIDEWALK N/A	
LOCATED UTILITY: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		PAVEMENT CONDITION: GOOD FAIR POOR N/A	
MATERIAL AS FOUND: <u>DI</u> C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA ACP RCP CMP PVC UNK DB CABLE SMOOTH POUR ROUGH POUR OTHER		SOIL CONDITIONS: HARD <u>SOFT</u> WET MOIST <u>DRY</u> SAND CLAY ROCK <u>DIRT</u> SOLID-ROCK	
SIZE AS FOUND: <u>36"</u> SIZE EXPECTED: <u>36"</u>		SHEET No.: <u>6</u>	PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage
UTILTY CONDITION: <u>GOOD</u> FAIR POOR N/A		FORM BY: C.Reyes	ASSISTED BY: <u>AM</u>
RIBBON INSTALLED: <u>BLUE</u> YELLOW RED GREEN N/A ORANGE WHITE PINK PURPLE		NUMBER OF HOLES: 1	Date: <u>4-6-18</u> TIME: _____
		INSTALLED: <u>PK HUB</u> STEEL PIN CHIS "X" CHIS BOX AT: <u>CROWN</u> EDGE OF UTILITY: SURVEY PIN LOCATED BY: N/A JOB MEASUREMENT TYPE: <u>TENTHS</u> METRIC INCHES NOTES: Excavated to a depth of <u>3.73'</u> <u>Found a 36" D.I. w.m. (56A water & sewer)</u>	
		SURVEY INFORMATION GIVEN ELEVATION _____ STATION (±) <u>N/A</u> OFFSET: <u>N/A</u> LT / RT <u>Building # 5837</u>	

VACUUM TEST HOLE REPORT

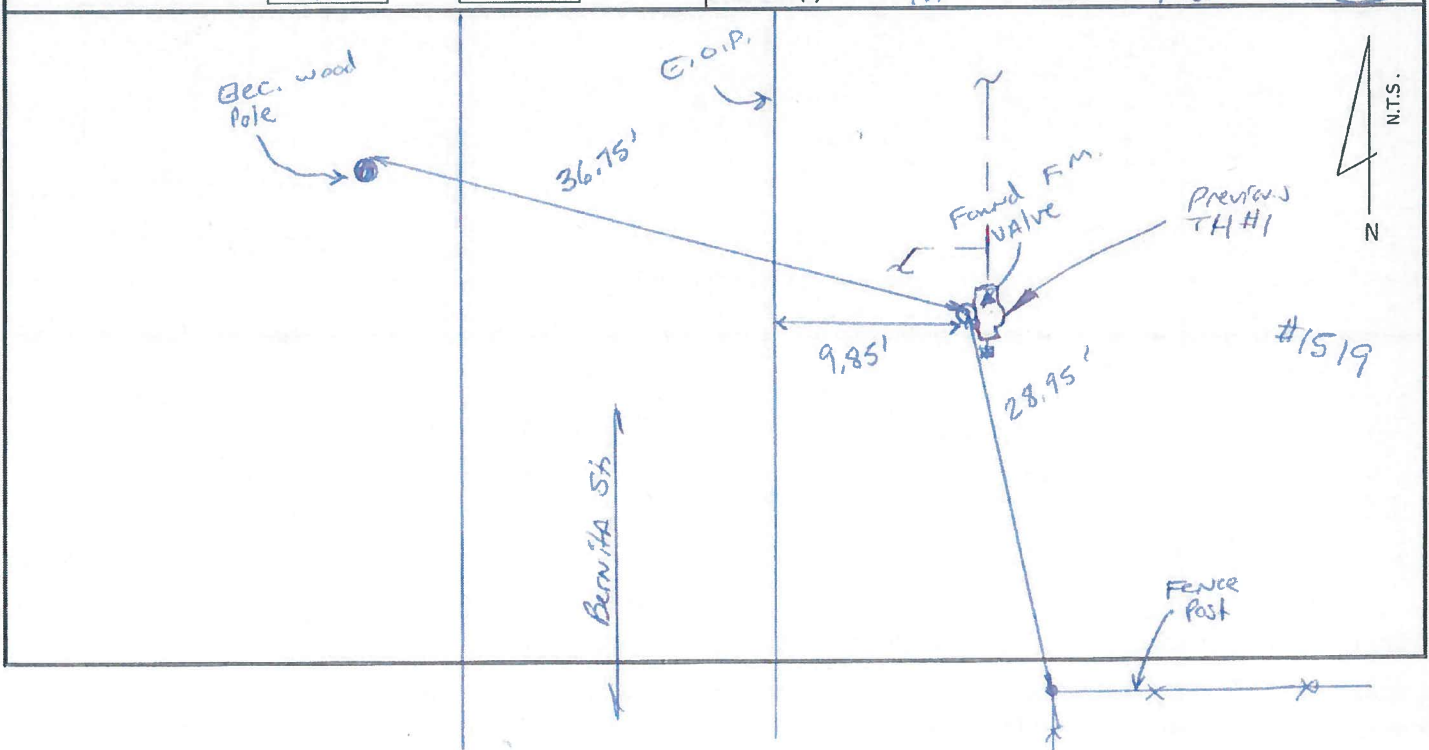
Test Hole No.: 5
 FRA Job No.: 2984

PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.: _____		WORK ORDER No.: 16	
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:			
REQUESTED LOCATE: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		<u>ASPHALT</u> CONCRETE ASPHALT OVER CONCRETE GRAVEL BRICKS SIDEWALK N/A			
LOCATED UTILITY: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		PAVEMENT CONDITION: GOOD <u>FAIR</u> POOR N/A			
MATERIAL AS FOUND: <u>D/I</u> C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA ACP RCP CMP PVC UNK DB CABLE SMOOTH POUR ROUGH POUR OTHER		SOIL CONDITIONS: HARD <u>SOFT</u> WET MOIST <u>DRY</u> SAND CLAY ROCK <u>DIRT</u> SOLID-ROCK			
SIZE AS FOUND: <u>16"</u> SIZE EXPECTED: <u>16"</u>		SHEET No.: <u>6</u>		PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage	
UTILITIY CONDITION: <u>GOOD</u> FAIR POOR N/A		FORM BY: C.Reyes		ASSISTED BY: <u>AM</u>	
RIBBON INSTALLED: <u>BLUE</u> YELLOW RED GREEN N/A ORANGE WHITE PINK PURPLE		NUMBER OF HOLES: 1		Date: <u>4-6-18</u> TIME: _____	
INSTALLED: <u>PK</u> HUB STEEL PIN CHIS "X" CHIS BOX		AT: <u>CROWN</u> EDGE OF UTILITY:			
SURVEY PIN LOCATED BY: N/A		JOB MEASUREMENT TYPE: <u>TENTHS</u> METRIC INCHES			
Diagram details: A vertical line represents the test hole. On the left, depth measurements are listed: N/A (ELEV. SURFACE), 3.00' (COVER TOP), N/A (ELEV. TOP), 4.57' (COVER BOTTOM), N/A (ELEV. BOTTOM). On the right, measurements are: .30' (P.I. SURFACE), .55' (ELEV. UT). At the bottom, a horizontal line is labeled 1.57' (W.D.M.) and EDW. A blue circle is drawn around the hole, with a dashed line indicating a 16" diameter.		NOTES: Excavated to a depth of <u>3.00'</u> <u>Found a 16" D.I. w/m (SEA water & sewer)</u>			
SURVEY INFORMATION					
GIVEN ELEVATION _____					
STATION (±) <u>N/A</u> OFFSET: <u>N/A</u> LT / RT					
Site plan details: A street layout showing Bernita St running vertically and Commerce St running horizontally. A sidewalk is shown on the left side of Bernita St. A water valve is marked on Bernita St. A building labeled "Building # 5837" is located on Commerce St. The test hole location is marked with a circle and crosshairs. Distances are noted: 37.50' from the sidewalk to the hole, 38.05' from the water valve to the hole, and 43.80' from the building to the hole. A north arrow is shown on the right side, labeled "N.T.S." and "N".					

VACUUM TEST HOLE REPORT

Test Hole No.: 6
FRA Job No.: 2984

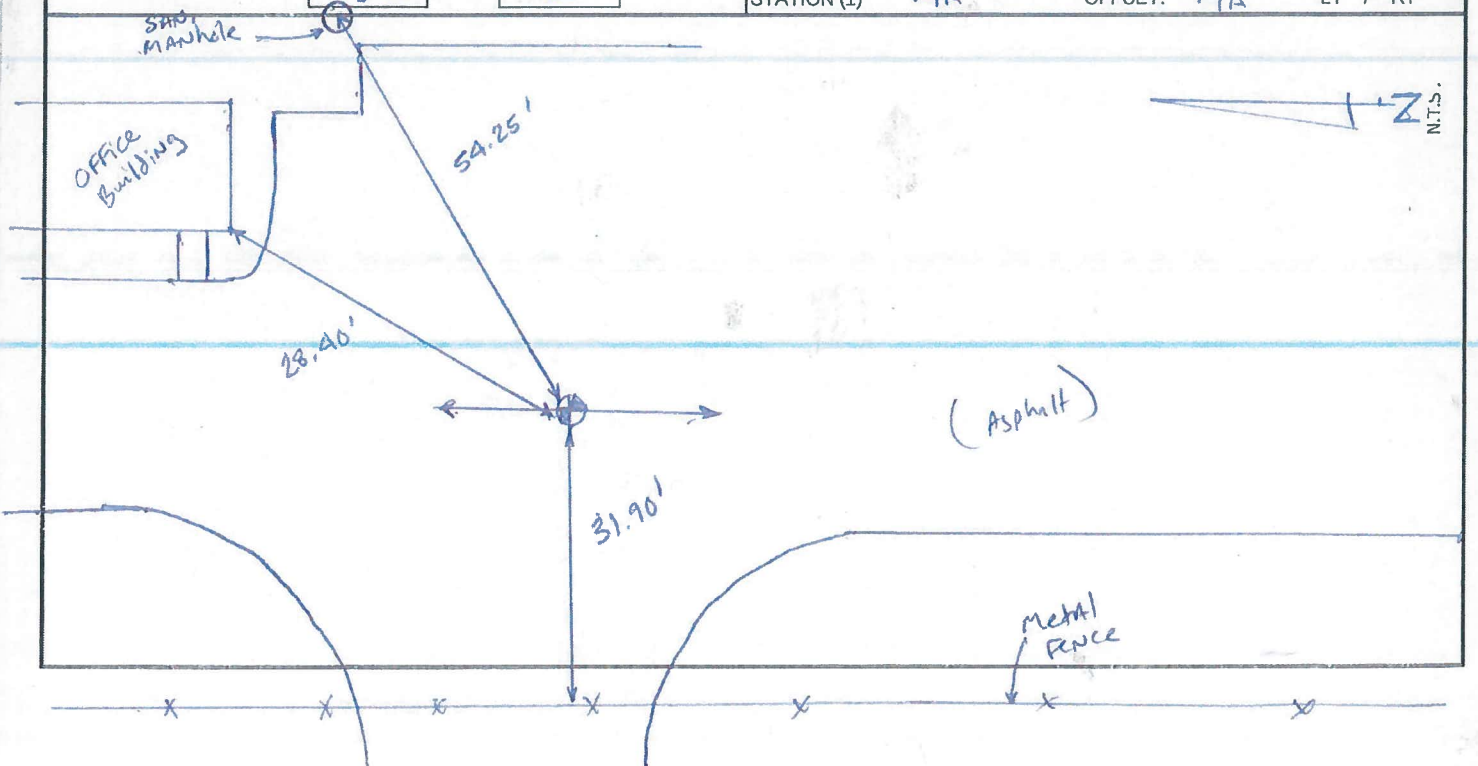
PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.:		WORK ORDER No.: 16	
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:			
REQUESTED LOCATE: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV WATER TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		ASPHALT CONCRETE ASPHALT OVER CONCRETE GRAVEL BRICKS SIDEWALK <u>N/A</u>			
LOCATED UTILITY: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV WATER TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		PAVEMENT CONDITION: GOOD FAIR POOR <u>N/A</u>			
MATERIAL AS FOUND: D/I C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA ACP RCP CMP PVC UNK DB CABLE SMOOTH POUR ROUGH POUR <u>N/A</u> OTHER		SOIL CONDITIONS: HARD <u>SOFT</u> WET MOIST <u>DRY</u> SAND CLAY ROCK <u>DIRT</u> SOLID-ROCK			
		SHEET No.: <u>N/A</u>		PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage	
		FORM BY: C.Reyes		ASSISTED BY: <u>Am.</u>	
SIZE AS FOUND: <u>valve</u> SIZE EXPECTED: <u>18"</u>		NUMBER OF HOLES: 1		Date: <u>4-6-18</u> TIME: _____	
UTILITIY CONDITION: GOOD FAIR POOR N/A		INSTALLED: PK HUB STEEL PIN CHIS "X" CHIS BOX <u>FLAG</u> CROWN EDGE OF UTILITY: <u>N/A</u>			
RIBBON INSTALLED: BLUE YELLOW RED GREEN N/A ORANGE WHITE PINK PURPLE		SURVEY PIN LOCATED BY: N/A			
		JOB MEASUREMENT TYPE: <u>TENTHS</u> METRIC INCHES			
		NOTES: Excavated to a depth of <u>N/A</u>			
		<i>Found a F.M. valve w/ NO valve cover.</i>			
		SURVEY INFORMATION GIVEN ELEVATION _____ STATION (±) <u>N/A</u> OFFSET: <u>9.85'</u> LT / RT <u>RT</u>			



VACUUM TEST HOLE REPORT

Test Hole No.: 7
FRA Job No.: 2984

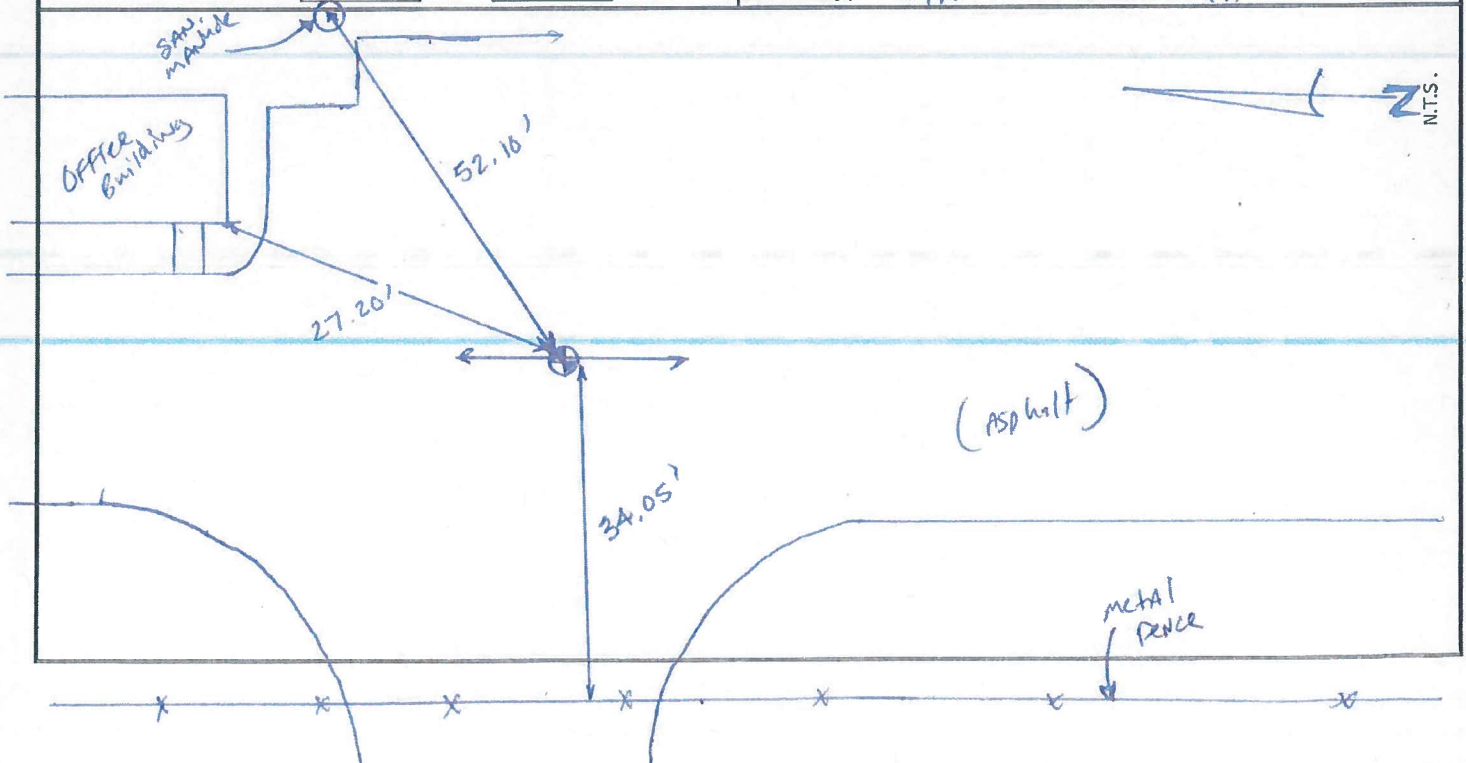
PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.:	WORK ORDER No.: 16
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:	
REQUESTED LOCATE: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV WATER TEL. ELECTRIC RAW WATER <u>UNKNOWN</u> RECLAIMED WATER N/A FIBER OPTIC CABLE		<u>ASPHALT</u> CONCRETE ASPHALT OVER CONCRETE GRAVEL BRICKS SIDEWALK N/A	
LOCATED UTILITY: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		PAVEMENT CONDITION: <u>GOOD</u> FAIR POOR N/A	
MATERIAL AS FOUND: D/I C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA ACP RCP CMP <u>PVC</u> UNK DB CABLE SMOOTH POUR ROUGH POUR OTHER		SOIL CONDITIONS: HARD <u>SOFT</u> WET MOIST <u>DRY</u> SAND CLAY ROCK <u>DIRT</u> SOLID-ROCK	
SIZE AS FOUND: <u>8"</u> SIZE EXPECTED: <u>8"</u>		SHEET No.: <u>4</u>	PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage
UTILTY CONDITION: <u>GOOD</u> FAIR POOR N/A		FORM BY: C.Reyes	ASSISTED BY: <u>T.G.</u>
RIBBON INSTALLED: <u>BLUE</u> YELLOW RED GREEN N/A ORANGE WHITE PINK PURPLE		NUMBER OF HOLES: 1	Date: <u>7-3-18</u> TIME: _____
BLEV. SURFACE: N/A COVER TOP: <u>1.65'</u> N/A REVISION: _____ COVER BOTTOM: <u>2.40'</u> N/A BLEV. BOTTOM: _____ PAVEMENT: <u>.15'</u> BLEV. SURFACE: <u>.45'</u> VERTICAL: _____ WIDTH: <u>.75'</u> FACING: <u>N&S</u>		INSTALLED: <u>PK</u> HUB STEEL PIN CHIS "X" CHIS BOX AT: <u>CROWN</u> EDGE OF UTILITY: SURVEY PIN LOCATED BY: N/A JOB MEASUREMENT TYPE: <u>TENTHS</u> METRIC INCHES NOTES: Excavated to a depth of <u>1.65'</u> <u>Found a 8" pvc w/ m (50A water & sewer)</u>	
SURVEY INFORMATION GIVEN ELEVATION _____ STATION (±) <u>N/A</u> OFFSET: <u>N/A</u> LT / RT			



VACUUM TEST HOLE REPORT

Test Hole No.: 8
FRA Job No.: 2984

PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.:		WORK ORDER No.: 16	
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:			
REQUESTED LOCATE: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV WATER TEL. ELECTRIC RAW WATER <u>UNKNOWN</u> RECLAIMED WATER N/A FIBER OPTIC CABLE		<u>ASPHALT</u> CONCRETE ASPHALT OVER CONCRETE GRAVEL BRICKS SIDEWALK N/A			
LOCATED UTILITY: GAS STORM SAN. COMMUNICATION <u>FORCE MAIN</u> CATV WATER TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		PAVEMENT CONDITION: <u>GOOD</u> FAIR POOR N/A			
MATERIAL AS FOUND: D/I C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA ACP RCP CMP <u>PVC</u> UNK DB CABLE SMOOTH POUR ROUGH POUR OTHER		SHEET No.: <u>4</u>		PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage	
SIZE AS FOUND: <u>16"</u> SIZE EXPECTED: <u>16"</u>		FORM BY: C.Reyes ASSISTED BY: <u>T.G.</u>			
UTILTY CONDITION: <u>GOOD</u> FAIR POOR N/A		NUMBER OF HOLES: 1 Date: <u>7-3-18</u> TIME: _____			
RIBBON INSTALLED: BLUE YELLOW RED <u>GREEN</u> N/A ORANGE WHITE PINK PURPLE		INSTALLED: <u>PK HUB</u> STEEL PIN CHIS "X" CHIS BOX AT: <u>CROWN</u> EDGE OF UTILITY:			
		SURVEY PIN LOCATED BY: N/A			
		JOB MEASUREMENT TYPE: <u>TENTHS</u> METRIC INCHES NOTES: Excavated to a depth of <u>3.54'</u> "Found a 16" PVC F.M. (SDA under & sewer)"			
		SURVEY INFORMATION GIVEN ELEVATION _____ STATION (±) <u>N/A</u> OFFSET: <u>N/A</u> LT / RT			



VACUUM TEST HOLE REPORT

Test Hole No.: 9
 FRA Job No.: 2984

PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.: _____		WORK ORDER No.: 16	
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:			
REQUESTED LOCATE: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV WATER TEL. ELECTRIC RAW WATER <u>UNKNOWN</u> RECLAIMED WATER N/A FIBER OPTIC CABLE		☒ ASPHALT ☐ CONCRETE ☐ ASPHALT OVER CONCRETE ☐ GRAVEL ☐ BRICKS ☐ SIDEWALK ☐ N/A			
LOCATED UTILITY: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV WATER TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER <u>N/A</u> FIBER OPTIC CABLE		PAVEMENT CONDITION: ☒ GOOD ☐ FAIR ☐ POOR ☐ N/A			
MATERIAL AS FOUND: D/I C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA ACP RCP CMP PVC UNK DB CABLE SMOOTH POUR ROUGH POUR <u>NONE</u> OTHER		SHEET No.: <u>4</u>		PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage	
SIZE AS FOUND: <u>N/A</u> SIZE EXPECTED: <u>N/A</u>		FORM BY: C.Reyes ASSISTED BY: <u>T.G.</u>			
UTILTY CONDITION: GOOD FAIR POOR <u>N/A</u>		NUMBER OF HOLES: 1 Date: <u>7-3-18</u> TIME: _____			
RIBBON INSTALLED: BLUE YELLOW RED GREEN <u>N/A</u> ORANGE WHITE PINK PURPLE		INSTALLED: PK HUB STEEL PIN CHIS "X" CHIS BOX AT: CROWN EDGE OF UTILITY: <u>N/A</u>			
		SURVEY PIN LOCATED BY: N/A			
		JOB MEASUREMENT TYPE: <u>TENTHS</u> METRIC INCHES			
		NOTES: Excavated to a depth of <u>8.00'</u> <u>NO utilities found</u> <u>Test hole was done on locate signal picked up by G.P.R. unit.</u>			
		SURVEY INFORMATION			
		GIVEN ELEVATION _____			
		STATION (±) <u>N/A</u> OFFSET: <u>N/A</u> LT / RT			

VACUUM TEST HOLE REPORT

Test Hole No.: 10
FRA Job No.: 2984

PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.: _____		WORK ORDER No.: 16	
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:			
REQUESTED LOCATE: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		<u>ASPHALT</u> CONCRETE ASPHALT OVER CONCRETE GRAVEL BRICKS SIDEWALK N/A			
LOCATED UTILITY: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		PAVEMENT CONDITION: <u>GOOD</u> <u>FAIR</u> POOR N/A			
MATERIAL AS FOUND: D/I C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA <u>ACP</u> RCP CMP PVC UNK DB CABLE SMOOTH POUR ROUGH POUR OTHER		SOIL CONDITIONS: HARD <u>SOFT</u> WET MOIST <u>DRY</u> SAND CLAY ROCK <u>DIRT</u> SOLID-ROCK			
SIZE AS FOUND: <u>8"</u> SIZE EXPECTED: <u>8"</u>		SHEET No.: <u>5</u>		PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage	
UTILTY CONDITION: <u>GOOD</u> FAIR POOR N/A		FORM BY: C.Reyes		ASSISTED BY: <u>J.G.</u>	
RIBBON INSTALLED: <u>BLUE</u> YELLOW RED GREEN N/A ORANGE WHITE PINK PURPLE		NUMBER OF HOLES: 1 Date: <u>7-3-18</u> TIME: _____		INSTALLED: <u>PK OFF</u> STEEL PIN CHIS "X" CHIS BOX	
		AT: <u>CROWN</u> EDGE OF UTILITY:		SURVEY PIN LOCATED BY: N/A	
		JOB MEASUREMENT TYPE: <u>TENTHS</u> METRIC INCHES			
		NOTES: Excavated to a depth of <u>3.20'</u> <u>Found a 8" A.C. W.M. (30" water & sewer)</u>			
		SURVEY INFORMATION			
		GIVEN ELEVATION _____			
		STATION (±) <u>N/A</u> OFFSET: <u>N/A</u> LT / RT			

VACUUM TEST HOLE REPORT

Test Hole No.: 11
FRA Job No.: 2984

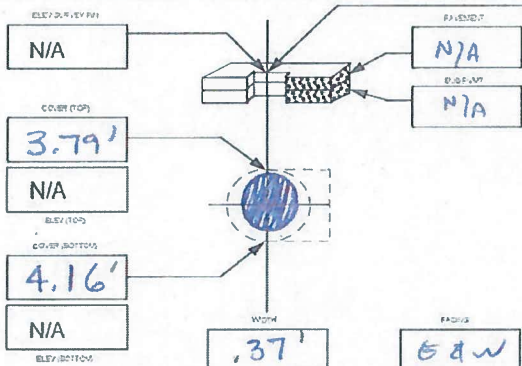
PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.:	WORK ORDER No.: 16
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:	
REQUESTED LOCATE: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		<u>ASPHALT</u> CONCRETE ASPHALT OVER CONCRETE GRAVEL BRICKS SIDEWALK N/A	
LOCATED UTILITY: GAS STORM SAN. COMMUNICATION FORCE MAIN CATV <u>WATER</u> TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		PAVEMENT CONDITION: <u>GOOD</u> FAIR POOR N/A	
MATERIAL AS FOUND: D/I C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA ACP RCP CMP <u>PVC</u> UNK DB CABLE SMOOTH POUR ROUGH POUR <u>GAW</u> OTHER		SOIL CONDITIONS: HARD <u>SOFT</u> WET MOIST <u>DRY</u> SAND CLAY ROCK <u>DIRT</u> SOLID-ROCK	
SIZE AS FOUND: <u>2"</u> SIZE EXPECTED: <u>6"</u>		SHEET No.: <u>6</u>	PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage
UTILTY CONDITION: GOOD <u>FAIR</u> POOR N/A		FORM BY: C.Reyes	ASSISTED BY: <u>T.G.</u>
RIBBON INSTALLED: <u>BLUE</u> YELLOW RED GREEN N/A ORANGE WHITE PINK PURPLE		NUMBER OF HOLES: 1	Date: <u>7-5-18</u> TIME: _____
ELEV. SURVEY PI: N/A COVER TOP: <u>2.42'</u> ELEV. TOP: N/A COVER BOTTOM: <u>2.61'</u> ELEV. BOTTOM: N/A PAVED: <u>.60'</u> D.S. PVT: N/A Width: <u>.19'</u> Paving: <u>Edw</u>		INSTALLED: <u>PK</u> HUB STEEL PIN CHIS "X" CHIS BOX AT: <u>CROWN</u> EDGE OF UTILITY: SURVEY PIN LOCATED BY: N/A JOB MEASUREMENT TYPE: <u>TENTHS</u> METRIC INCHES NOTES: Excavated to a depth of <u>2.42'</u> Found a 2" GAW. w.m (JGA water & sewer)	
STATION (±) <u>N/A</u> OFFSET: <u>N/A</u> LT / RT		SURVEY INFORMATION GIVEN ELEVATION 	

The site map shows Bernita St running vertically on the left and Harris Ave running horizontally across the middle. A sidewalk runs along Bernita St. A fire hydrant is located near the intersection. A SAN. manhole is located further east. An electric wood pole is also shown. A north arrow points upwards. A scale of N.T.S. is indicated.

VACUUM TEST HOLE REPORT

Test Hole No.: 12
FRA Job No.: 2984

PROJECT NAME: Bernita St Force Main Replacement		Subcontract No.:	WORK ORDER No.: 16
LOCATE REQUESTED BY: R.E. Holland & Associates		PAVEMENT TYPE:	
REQUESTED LOCATE: GAS STORM <u>SAN.</u> COMMUNICATION FORCE MAIN CATV WATER TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		ASPHALT CONCRETE ASPHALT OVER CONCRETE GRAVEL BRICKS SIDEWALK <u>N/A</u>	
LOCATED UTILITY: GAS STORM <u>SAN.</u> COMMUNICATION FORCE MAIN CATV WATER TEL. ELECTRIC RAW WATER UNKNOWN RECLAIMED WATER N/A FIBER OPTIC CABLE		PAVEMENT CONDITION: GOOD FAIR POOR <u>N/A</u>	
MATERIAL AS FOUND: D/I C/I STEEL WRAP-STEEL TILE PLASTIC TERRA COTTA ACP RCP CMP <u>PVC</u> UNK DB CABLE SMOOTH POUR ROUGH POUR OTHER		SOIL CONDITIONS: HARD <u>SOFT</u> WET MOIST <u>DIRY</u> SAND CLAY ROCK <u>DIRT</u> SOLID-ROCK	
SIZE AS FOUND: <u>4"</u> SIZE EXPECTED: <u>4"</u>		SHEET No.: <u>7</u>	PROPOSED: New Utilities Roadway Mast Arm/Signal Pole Drainage
UTILTIY CONDITION: <u>GOOD</u> FAIR POOR N/A		FORM BY: C.Reyes	ASSISTED BY: <u>T.G.</u>
RIBBON INSTALLED: BLUE YELLOW RED <u>GREEN</u> N/A ORANGE WHITE PINK PURPLE		NUMBER OF HOLES: 1	Date: <u>7-5-18</u> TIME: _____
		INSTALLED: PK <u>HUB</u> STEEL PIN CHIS "X" CHIS BOX	
		AT: <u>CROWN</u> EDGE OF UTILITY:	
		SURVEY PIN LOCATED BY: N/A	



JOB MEASUREMENT TYPE: TENTHS METRIC INCHES

NOTES: Excavated to a depth of 3.79'

Found a 4" PVC SAN. sewer (JEA water & sewer)

SURVEY INFORMATION

GIVEN ELEVATION

STATION (±) N/A

OFFSET: 4.70' LT RT

