

PROCESS PIPING SCHEDULE

LEGEND	SYSTEM	TEMP. PRESSURE			MATERIAL	DIAMETER RANGE	SCH. / CLASS	LINING/COATING	JOINT TYPE	BLOCK	CHECK	THROTTLING	TEST REQUIREMENTS		SPEC. SECTION NUMBER	PPE COLOR (MM)	REMARKS		
		OPER.	MAX.	WORK.									MAX.	TEST METHOD (SPEC)				TEST APPROVAL (SPEC)	
STP-1	STORMWATER	75	90	6	10	BP	CLASS 33	SEE SPECS	FLANGED	---	---	---	25	WATER	400515	400515	402040	10FT GEAR	NOTES 1, 2, 3, 7
ASR-1	ASR WATER	75	90	50	125	BP	CLASS 33	SEE SPECS	FLANGED/NU	---	---	---	125	WATER	400515	400515	402040	10FT GEAR	NOTES 1, 2, 3, 7
ASR-2	ASR WATER	75	90	50	125	HOPE	8-1/2"	OR 11	FLUOR/FLANGED/NU	---	---	---	125	WATER	400515	400515	402047	10FT GEAR	NOTES 1, 3, 4, 6
FW-1	POTABLE WATER	75	90	50	125	HOPE	1-2"	OR 11	FLUOR/THREADED	---	---	---	125	WATER	400515	400515	402078	BLUE	NOTES 1, 2, 4
FW-2	POTABLE WATER	75	90	50	125	SS1	0.125-7/8"	---	COMPRESSION	---	---	---	125	WATER	400515	400515	402078	---	NOTES 1, 2, 4
FW-3	POTABLE WATER	75	90	50	125	SS1	0.25-3"	---	THREADED	---	---	---	125	WATER	400515	400515	402078	---	NOTES 1, 2, 4

PROCESS PUMP SCHEDULE

TAG NO.	NUMBER OF UNITS	NAME	TYPE	RATING POINT		MIN. CAPACITY (GPM)	HEAD (FEET)	EFF. %	MIN. SHUTOFF HEAD (FT)	PUMP RPM MAX.	SOUL TYPE	MOTOR DATA		DRIVE TYPE	SPEC. SECTION	BASIS OF DESIGN	REMARKS			
				HP	HP							VOLTAGE (MAX)	ENC. TYPE							
P-1 & P-2	2	MAIN PUMP	VERTICAL MIXED FLOW	21,000	16	88	25	---	3/8	505	TYPE F	125	460	506	TEFC	400515	400515	402150	FEELLESS	
P-3	1	JOCKEY PUMP	VERTICAL MIXED FLOW	5625	11	81	18	---	1/16	1175	TYPE F	25	480	1175	TEFC	400515	400515	402150	FEELLESS	
P-4	1	ASR PUMP	SUBMERSIBLE	1380	148	70	240	---	---	1760	TYPE H	88	+460	1160	SUB	---	---	---	402140	FLUOR 0.1500

SLIDE GATE SCHEDULE

TAG NO.	NUMBER OF UNITS	GATE SIZE W(N) x H(N)	GATE TYPE	MOUNTING CONFIGURATION	SEALED HEAD	UNSEALED HEAD	GATE INLET (ELEV)	DOCK HEIGHT (ELEV)	CHANNEL WIDTH (IN)	SLIDE HEIGHT (IN)	OPERATOR TYPE	MOTOR DATA		SPEC. SECTION	REMARKS	
												HP	VOLTAGE			
SG-1, SG-3	2	54 x 188	SELF CONTAINED	---	---	17.0	-10.80	8.33	54	188	ELECTRIC	1	460	HEAVY	400580	NOTE 11,12
SG-2, SG-4	2	54 x 188	CONTAINED	SURFACE	---	---	18.0	-11.07	8.33	54	ELECTRIC	1	460	HEAVY	400580	NOTE 11,12

SCREEN SCHEDULE

TAG NO.	NUMBER OF UNITS	NAME	TYPE	RATING POINT		CHANNEL HEAD WIDTH (INCH)	CHANNEL INVERT TO DECK (INCH)	LEFT (INCH)	HP	VOLTAGE (MAX)	ENC. TYPE	DRIVE TYPE	SPEC. SECTION	BASIS OF DESIGN	REMARKS	
				CAPACITY (MGD)	HEAD LOSS (FOOT)											
SCR-1	2	BAR SCREEN	VERTICAL	38	9	1	54	233	281	1	460	---	TEFC	GEAR	444333	JOHN WELNER

CONVEYOR SCHEDULE

TAG NO.	NUMBER OF UNITS	NAME	TYPE	CONVEYOR DATA		CENTERLINE		MOTOR DATA		MOTOR DATA		DRIVE TYPE	SPEC. SECTION	NUMBER			
				MATERIAL CONVEYED	LOADING (CY/HR)	FEED OR WIDTH (IN)	FEED OR LENGTH (FEET)	CONVEYOR ABOVE FLOOR (FEET)	CONVEYOR SPEED (FPM)	CONVEYOR SETTING	CONVEYOR DISCHARGE				HP	VOLTAGE (MAX)	ENC. TYPE
CNV-1	1	SCREENING CONVEYOR	BELT	SCREENING	875	24	21	2.5	80	FLOOR	1	3	460	1800	TEFC	412123	---

STRAINER SCHEDULE

TAG NO.	NUMBER OF UNITS	NAME	TYPE	RATING POINT		BACKWASH DISCHARGE (GPM)	HP	VOLTAGE (MAX)	ENC. TYPE	DRIVE TYPE	SPEC. SECTION	BASIS OF DESIGN	REMARKS		
				OPERATING PRESSURE (PSI)	SCREENING SIZE (INCH)										
FT-1	2	STRAINER	AUTOMATIC	1340	50	200	7	10	10	0.5	460	---	GEAR	44331	AMMO ESB
FT-2	2	STRAINER	AUTOMATIC	1340	50	200	7	10	10	0.5	460	---	GEAR	44331	AMMO ESB

NOTES:

- TEST PIPING IN ACCORDANCE WITH SPEC SECTION 400515, UNLESS OTHERWISE NOTED.
- LABEL PIPING IN ACCORDANCE WITH SPEC SECTION 400515, UNLESS OTHERWISE NOTED.
- THE DRAWINGS TO HAVE A CONSISTENT SLOPE BETWEEN THE INVERT OR CENTERLINE SHOWN ON ALL BURRED JOINTS ARE TO BE MECHANICALLY RESTRAINED UNLESS OTHERWISE NOTED.
- CONDUIT CONNECTIONS AND ELEVATIONS AT STRUCTURES WITH PROCESS AND STRUCTURAL CONDUIT SHALL BE IN ACCORDANCE WITH SPEC SECTION 609000, UNLESS OTHERWISE NOTED.
- WORKING PRESSURES REPORTED AS "L" INDICATES GRAVITY LINE.
- DO NOT OVERTIGHTEN STEEL PIPE BOLTS THAT ARE TIGHTENED TO CORROSION PROTECTING COATING.
- CONNECTION SHALL BE GREATER THAN THE HEIGHT OF THE SLIDE GATE, WHEN WATER LEVEL IS HIGH, GATE ACTS AS A WEIR. HOWEVER, GATE MUST BE ABLE TO OPEN UPWARDS UNDER THIS CONDITION.

CITY OF NAPLES
PUBLIC WORKS PUMP STATION

EQUIPMENT SCHEDULE

G-005
 SHEET 5

VERTICAL SCALES

DATE: 07/11/2013

DESIGNED BY: JLR

CHECKED BY: RFW

DATE: 07/11/2013

PROJECT SHEET

PROJECT NO.: 65850

PROJECT NAME: 62089240

DATE: 07/11/2013

AECOM

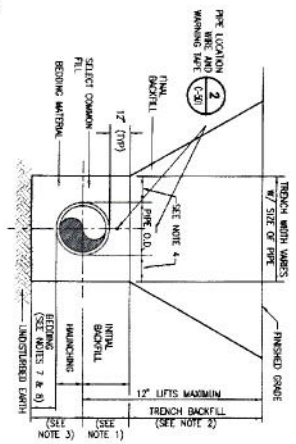
701 N. MILITARY TRAIL, SUITE 100
 NAPLES, FL 34102-4001
 TEL: 239.437.1000
 FAX: 239.437.1001
 WWW.AECOM.COM

APPROVED

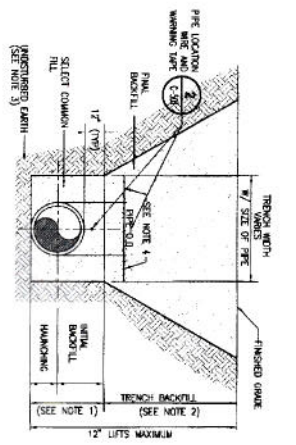
DATE: 07/11/2013

BY: JLR

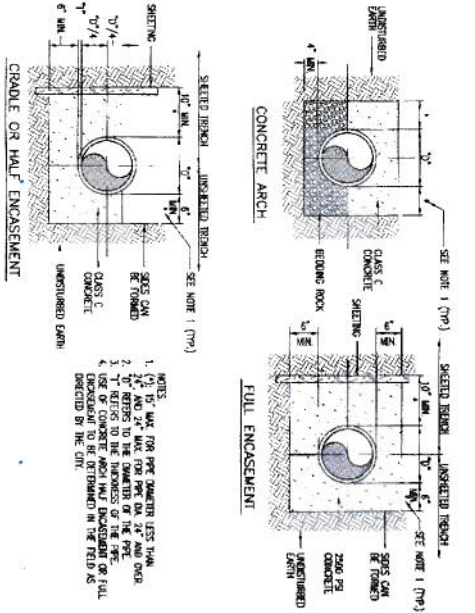
1 TYPE A BEDDING AND TRENCHING DETAIL
SCALE: NONE



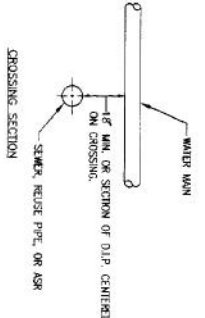
2 TYPE B BEDDING AND TRENCHING DETAIL
SCALE: NONE



3 CONCRETE ARCH AND ENCASMENT DETAILS
SCALE: NONE



- NOTES:
1. MATERIALS LISTED SHALL BE ABOVE SIZES OR ROUGH EQUIV. AT A CROSSING THEN CENTER LINE OF PIPE AND BEDDING FROM
 2. MAINTAIN 10" MINIMUM SEPARATION BETWEEN PARALLEL WATER AND SEWER PIPES. 5" BETWEEN WATER AND REUSE PIPES.
 3. DO NOT ENGAGE SINKER IN CONCRETE UNLESS SPECIALLY AUTHORIZED.
 4. ALL MATERIAL SHALL CLEAR OTHER CONSTRUCTION BY 6" MINIMUM.
 5. ALL MATERIAL SHALL WITHIN 10' OF S&S BURN SHALL BE TOLERANCE ENCLOSED.



4 PIPING CLEARANCES
SCALE: NONE

NO.	DATE	DESCRIPTION
1	SEPT 2013	ISSUED FOR PERMITS
2		
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10		

PROJECT NO.	65850
DATE	02/28/2010
DESIGNED BY	RONALD R. CAVALLER, P.E.
CHECKED BY	
DATE	
SCALE	

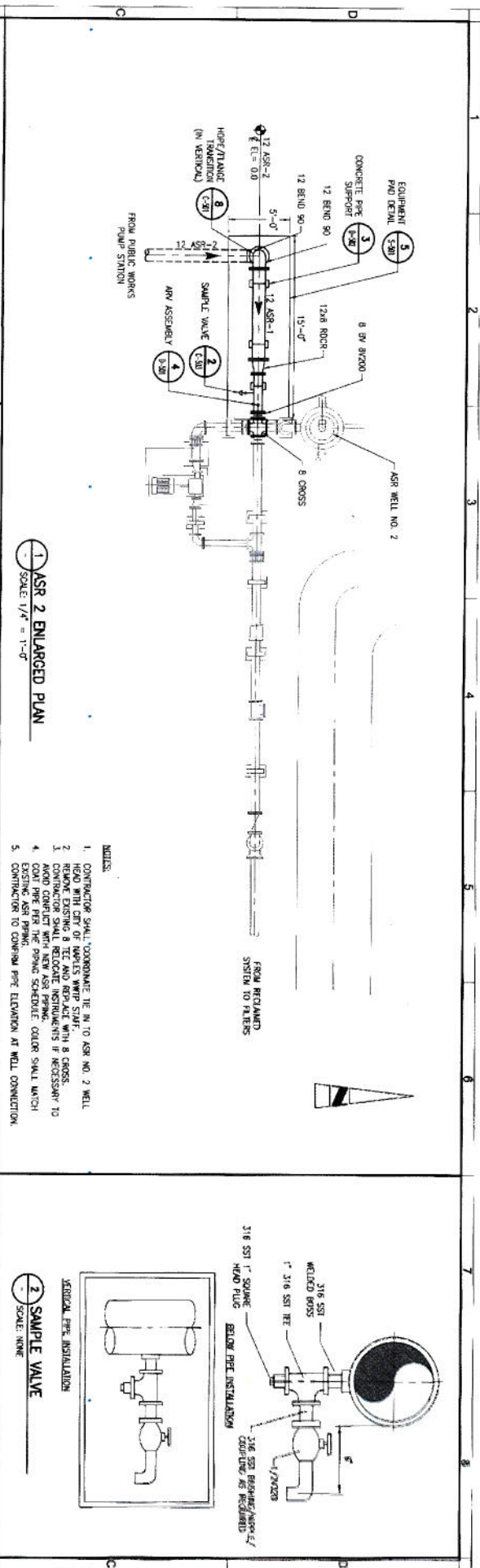
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Naples, FL 34102
Tel: 239.434.2000
Fax: 239.434.2001
www.aecom.com

CITY OF NAPLES
PUBLIC WORKS PUMP STATION
CIVIL DETAILS

SCALE: NONE
SHEET: 10
OF: 10

<p>PROJECT NO. 020240-PORT POOL AND PUBLIC WORKS PUMP STATION</p> <p>DATE: 08/19/2013</p> <p>PROJECT NAME: PORTED BY: LMB/L</p> <p>PROJECT LOCATION: 607082940</p> <p>PROJECT START DATE: SEPT 2013</p>		<p>DESIGNED BY: JIR</p> <p>CHECKED BY: JIR</p> <p>DATE: 08/19/2013</p> <p>SCALE: 1/4" = 1'-0"</p>		<p>PROJECT NO. 020240-PORT POOL AND PUBLIC WORKS PUMP STATION</p> <p>DATE: 08/19/2013</p> <p>PROJECT NAME: PORTED BY: LMB/L</p> <p>PROJECT LOCATION: 607082940</p> <p>PROJECT START DATE: SEPT 2013</p>		<p>DESIGNED BY: JIR</p> <p>CHECKED BY: JIR</p> <p>DATE: 08/19/2013</p> <p>SCALE: 1/4" = 1'-0"</p>		<p>PROJECT NO. 020240-PORT POOL AND PUBLIC WORKS PUMP STATION</p> <p>DATE: 08/19/2013</p> <p>PROJECT NAME: PORTED BY: LMB/L</p> <p>PROJECT LOCATION: 607082940</p> <p>PROJECT START DATE: SEPT 2013</p>		<p>DESIGNED BY: JIR</p> <p>CHECKED BY: JIR</p> <p>DATE: 08/19/2013</p> <p>SCALE: 1/4" = 1'-0"</p>	
<p>VERIFY SCALES</p> <p>DATE: 08/19/2013</p> <p>BY: JIR</p>		<p>VERIFY SCALES</p> <p>DATE: 08/19/2013</p> <p>BY: JIR</p>		<p>VERIFY SCALES</p> <p>DATE: 08/19/2013</p> <p>BY: JIR</p>		<p>VERIFY SCALES</p> <p>DATE: 08/19/2013</p> <p>BY: JIR</p>		<p>VERIFY SCALES</p> <p>DATE: 08/19/2013</p> <p>BY: JIR</p>		<p>VERIFY SCALES</p> <p>DATE: 08/19/2013</p> <p>BY: JIR</p>	
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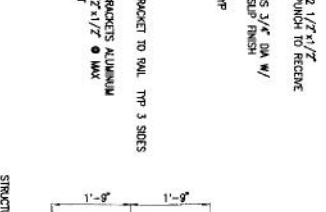
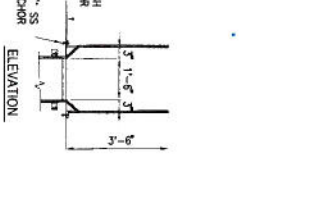
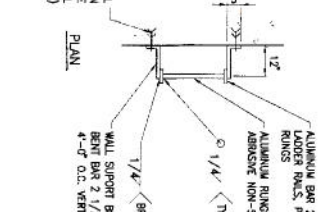
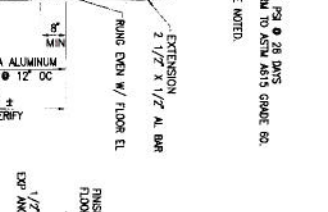
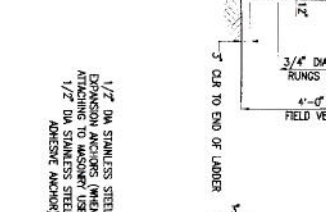
STRUCTURAL NOTES

- A. DESIGN CRITERIA**
1. FLORIDA BUILDING CODE, FBC 2010 FOR BUILDINGS AND OTHER STRUCTURES.
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING:
 3. ACI 308R-08, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, BY THE AMERICAN CONCRETE INSTITUTE.

- B. WIND LOAD**
1. WIND LOADING PER FBC 2010
 2. ULTIMATE WIND SPEED = 175 MPH
 3. EXPOSURE C
 4. RISK CATEGORY II

- C. GENERAL REQUIREMENTS**
1. ALL DETAILS ARE TYPICAL, INCORPORATE INTO PROJECT AT APPROPRIATE LOCATIONS WHERE CONDITIONS ARE SIMILAR.
 2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO START OF CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOUND IN CONTRACT DOCUMENTS AND/OR FIELD CONDITIONS.
 3. COORDINATE ALL REQUIRED OPENINGS WITH MECHANICAL, ELECTRICAL AND PILING CONTRACTORS.

- D. CONCRETE AND REINFORCING**
1. CAST-IN-PLACE CONCRETE $f'_c = 4000$ PSI @ 28 DAYS
 2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
 3. CONCRETE COVER:
 - A. SHALL BE 2" UNLESS OTHERWISE NOTED.
 - B. 3" CAST AGAINST GRADE.



NO.	DATE	DESCRIPTION	BY	CHECKED
1	10/15/13	ISSUED FOR PERMIT	MM	MM
2	10/15/13	ISSUED FOR PERMIT	MM	MM
3	10/15/13	ISSUED FOR PERMIT	MM	MM
4	10/15/13	ISSUED FOR PERMIT	MM	MM
5	10/15/13	ISSUED FOR PERMIT	MM	MM
6	10/15/13	ISSUED FOR PERMIT	MM	MM
7	10/15/13	ISSUED FOR PERMIT	MM	MM
8	10/15/13	ISSUED FOR PERMIT	MM	MM

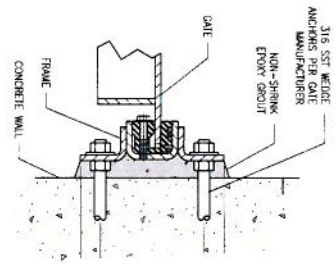
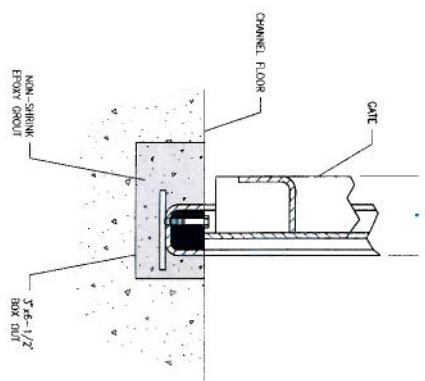
VERIFY SCALES

CLIENT: ANSON, P.E.
 PROJECT NO.: 60789240
 DRAWING NO.: 13
 DATE: 10/15/13

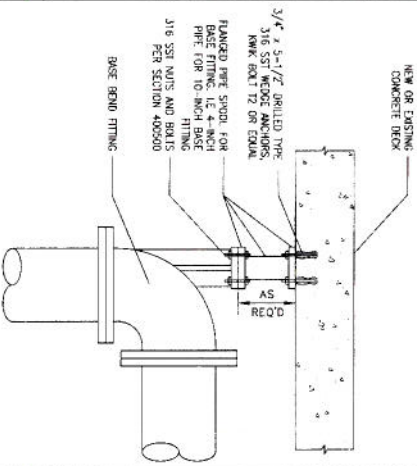
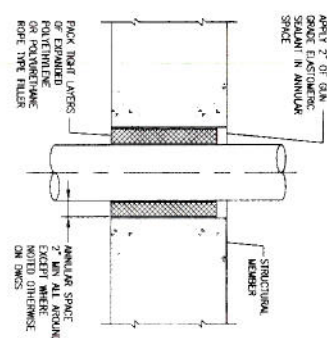
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CITY OF NAPLES
 PUBLIC WORKS PUMP STATION
 STRUCTURAL NOTES AND DETAILS

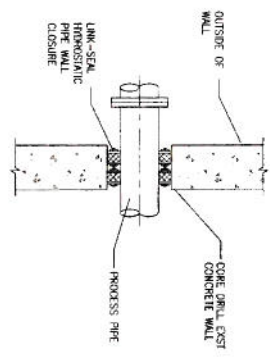
1 SURFACE MOUNTED SLIDE GATE
SCALE: NONE



2 SLAB PENETRATION
SCALE: NONE

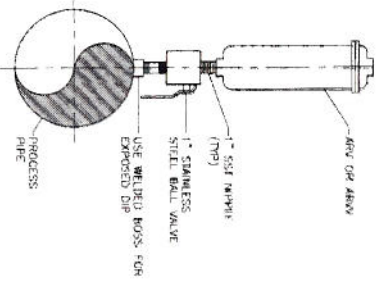


3 WALL PENETRATION
SCALE: NONE



- NOTES:
1. PROVIDE A SINGLE RUBBER ANNUAL SEAL WHEN THE WALL IS 8 INCHES THICK OR LESS. PROVIDE TWO RUBBER ANNUAL SEALS (ONE AT EACH END) WHEN THE WALL IS MORE THAN 8 INCHES THICK.
 2. COORDINATE THE DIAMETER OF THE CORE OPENING PER LINK SEAL MANUFACTURER.
 3. LINK SEAL SHALL HAVE 316 SST NUTS AND BOLTS.

4 ARV ASSEMBLY
SCALE: NONE



5 CEILING BASE ANCHOR
SCALE: NONE

NO.	REV.	DESCRIPTION
1		
2		
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5		
6		
7		
8		

DATE	BY	CHKD
10/10/12	MM	MM

PROJECT NO.	8022340-444
DATE	SEPT 2013

DESIGNED BY	RODOLFO R. CANALE, P.E.
CHECKED BY	MM
DATE	02/28/2010

9-28-2013

AECOM

17775 N.W. 22nd Ave., Suite 200
Boca Raton, FL 33433
Tel: 561-996-8800
Fax: 561-996-8801

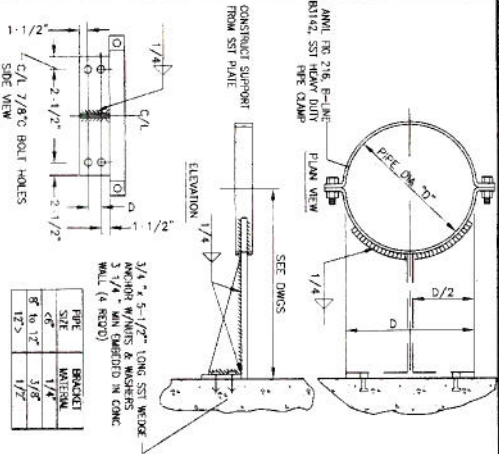
QUALITY ASSURANCE

100% INSPECTION OF ALL WORK
100% TESTING OF ALL MATERIALS
100% TESTING OF ALL CONCRETE

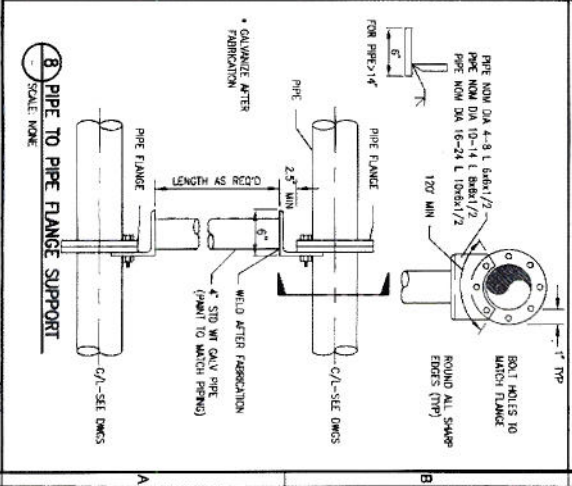
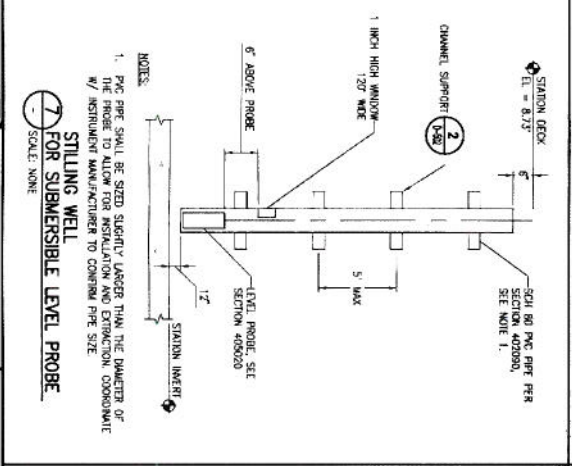
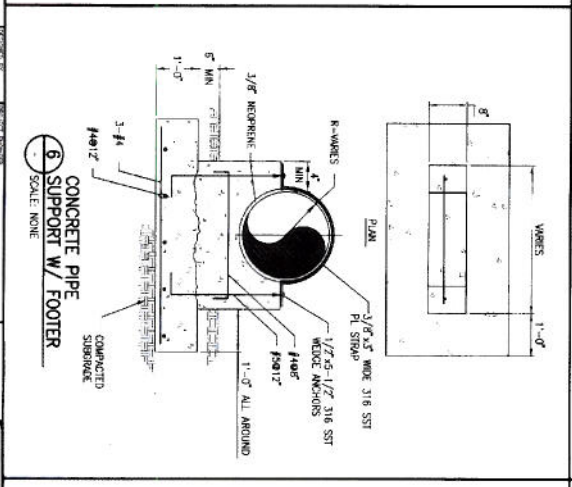
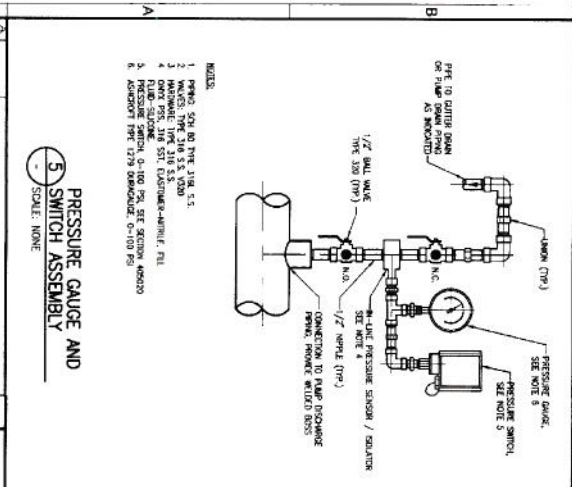
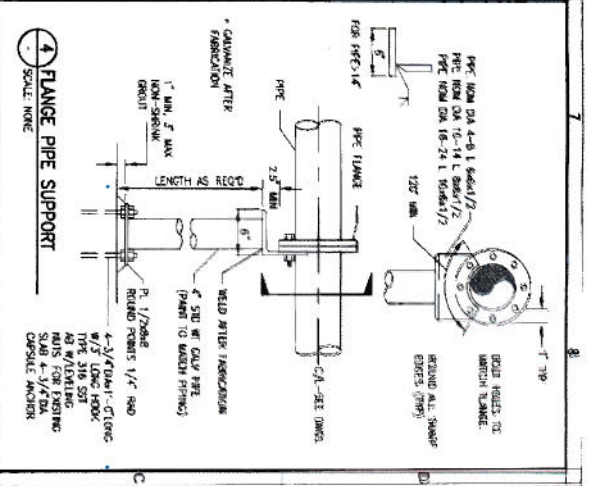
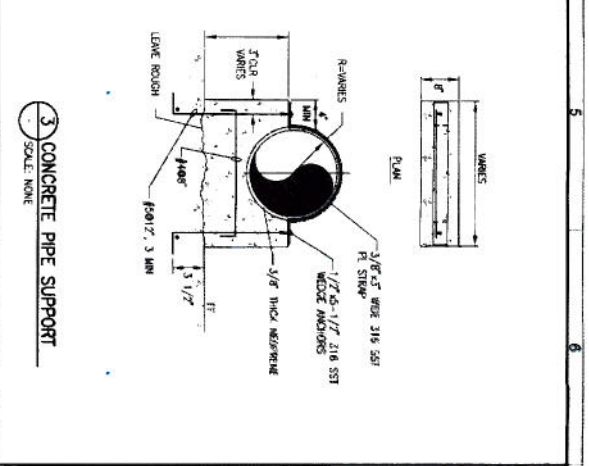
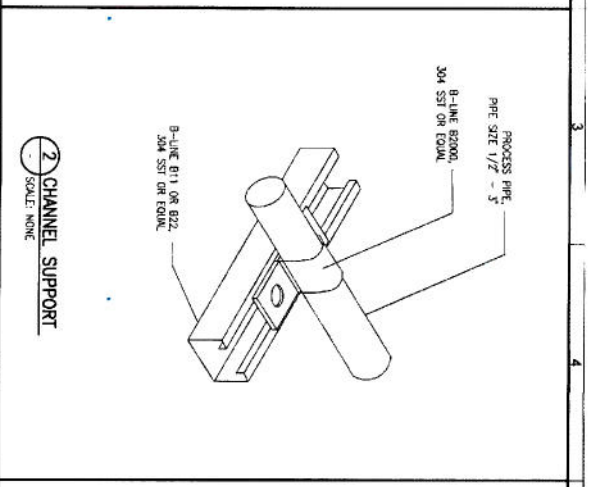
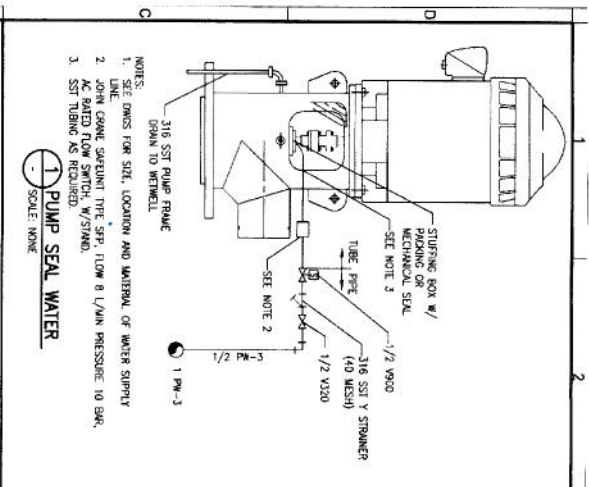
CITY OF NAPLES
PUBLIC WORKS PUMP STATION
PROCESS DETAILS

D-501
20

7 PIPE THRUST SUPPORT
SCALE: NONE



PIPE SIZE	48"
BRACKET SIZE	1/4"
MATERIAL	316
WELD	1/2"



NO.	DATE	DESCRIPTION	BY	CHECKED
1	05/19/2013	ISSUED FOR PERMITS	RONALD R. CAVALIERI, P.E.	
2				
3				
4				
5				
6				
7				
8				

PROJECT NO.	022819240
DATE	05/19/2013
SCALE	AS SHOWN
DESIGNED BY	RONALD R. CAVALIERI, P.E.
CHECKED BY	
DATE	
PROJECT NAME	
SCALE	
DATE	
SCALE	
DATE	
SCALE	

NO.	DATE	DESCRIPTION	BY	CHECKED
1	05/19/2013	ISSUED FOR PERMITS	RONALD R. CAVALIERI, P.E.	
2				
3				
4				
5				
6				
7				
8				

PROJECT NO.	022819240
DATE	05/19/2013
SCALE	AS SHOWN
DESIGNED BY	RONALD R. CAVALIERI, P.E.
CHECKED BY	
DATE	
PROJECT NAME	
SCALE	
DATE	
SCALE	
DATE	
SCALE	

ELECTRICAL SYMBOLS - PLAN

1	NON-FUSED SWITCHES AS INDICATED ON DRAWINGS	2	RECEIPTS W/WRITTEN ABOVE COUNTRY TOP
2	FUSED SWITCH, SIZE AS INDICATED ON DRAWINGS	3	MACHINE CONTACT - SECURITY
3	ENCLOSED MACHINERY STARTER W/M/MMA SIZE INDICATED	4	THE LOCK
4	ENCLOSED MACHINERY ON STARTER W/M/MMA SIZE INDICATED	5	LOCKING PROTECTION CLAMP
5	CANAL STATION - SEE SCHEMATIC DIAGRAM	6	LOCKING CONTACTOR
6	TRANSFORMER	7	PROTECTIVE RELAY
7	CONDUIT NUMBER - SEE CONDUIT SCHEDULE	8	DATA SHEET - 4" x 4" SHEET BOX WITH AT LEAST 4" x 10" OPEN TO
8	CONDUIT OR CONDUIT OR - DIRECT BURIAL OR IN SLAB	9	SECURITY JUNCTION BOX - 4" x 4" LIGHT QUANTITY BOX WITH AT LEAST 4" x 10" OPEN TO
9	CONDUIT DIRECT BURIAL WITH CONCRETE ENCASUREMENT	10	NOTIFIER HORN FROM FIREALARM ALARM OR SIGNAL TO
10	CONDUIT OR CONDUIT - TURNING UP	11	TELEPHONE OUTLET - 6" FROM MOUNTED
11	CONDUIT OR CONDUIT - TURNING DOWN	12	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE
12	ONE CONDUIT OR CONDUIT - TURNING DOWN	13	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE
13	ONE CONDUIT OR CONDUIT - TURNING DOWN	14	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE
14	ONE CONDUIT OR CONDUIT - TURNING DOWN	15	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE
15	ONE CONDUIT OR CONDUIT - TURNING DOWN	16	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE
16	ONE CONDUIT OR CONDUIT - TURNING DOWN	17	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE
17	ONE CONDUIT OR CONDUIT - TURNING DOWN	18	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE
18	ONE CONDUIT OR CONDUIT - TURNING DOWN	19	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE
19	ONE CONDUIT OR CONDUIT - TURNING DOWN	20	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE

ELECTRICAL SYMBOLS - SCHEMATIC DIAGRAM/ SINGLE LINE DIAGRAM

1	RECEIPTS W/WRITTEN ABOVE COUNTRY TOP	2	CONTACT
2	MACHINE CONTACT - SECURITY	3	CONTACT ACTION RETURNED ON
3	THE LOCK	4	CONTACT ACTION RETURNED ON
4	LOCKING PROTECTION CLAMP	5	CONTACT ACTION RETURNED ON
5	LOCKING CONTACTOR	6	CONTACT ACTION RETURNED ON
6	PROTECTIVE RELAY	7	CONTACT ACTION RETURNED ON
7	DATA SHEET - 4" x 4" SHEET BOX WITH AT LEAST 4" x 10" OPEN TO	8	CONTACT ACTION RETURNED ON
8	SECURITY JUNCTION BOX - 4" x 4" LIGHT QUANTITY BOX WITH AT LEAST 4" x 10" OPEN TO	9	CONTACT ACTION RETURNED ON
9	NOTIFIER HORN FROM FIREALARM ALARM OR SIGNAL TO	10	CONTACT ACTION RETURNED ON
10	TELEPHONE OUTLET - 6" FROM MOUNTED	11	CONTACT ACTION RETURNED ON
11	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE	12	CONTACT ACTION RETURNED ON
12	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE	13	CONTACT ACTION RETURNED ON
13	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE	14	CONTACT ACTION RETURNED ON
14	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE	15	CONTACT ACTION RETURNED ON
15	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE	16	CONTACT ACTION RETURNED ON
16	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE	17	CONTACT ACTION RETURNED ON
17	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE	18	CONTACT ACTION RETURNED ON
18	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE	19	CONTACT ACTION RETURNED ON
19	TELEPHONE CORD - 4" x 4" TELEPHONE CORD WITH 1/2" TELEPHONE	20	CONTACT ACTION RETURNED ON

ELECTRICAL SYMBOLS - SCHEMATIC DIAGRAM/ SINGLE LINE DIAGRAM - CONT'D

1	SPRINKLER FLOW CONTROL VALVE	2	SMALL STATE REDUCED VOLTAGE
2	FIRE DETECTOR, FROD TEMPERATURE	3	SMALL STATE REDUCED VOLTAGE
3	SMALL STATE REDUCED VOLTAGE	4	SMALL STATE REDUCED VOLTAGE
4	SMALL STATE REDUCED VOLTAGE	5	SMALL STATE REDUCED VOLTAGE
5	SMALL STATE REDUCED VOLTAGE	6	SMALL STATE REDUCED VOLTAGE
6	SMALL STATE REDUCED VOLTAGE	7	SMALL STATE REDUCED VOLTAGE
7	SMALL STATE REDUCED VOLTAGE	8	SMALL STATE REDUCED VOLTAGE
8	SMALL STATE REDUCED VOLTAGE	9	SMALL STATE REDUCED VOLTAGE
9	SMALL STATE REDUCED VOLTAGE	10	SMALL STATE REDUCED VOLTAGE
10	SMALL STATE REDUCED VOLTAGE	11	SMALL STATE REDUCED VOLTAGE
11	SMALL STATE REDUCED VOLTAGE	12	SMALL STATE REDUCED VOLTAGE
12	SMALL STATE REDUCED VOLTAGE	13	SMALL STATE REDUCED VOLTAGE
13	SMALL STATE REDUCED VOLTAGE	14	SMALL STATE REDUCED VOLTAGE
14	SMALL STATE REDUCED VOLTAGE	15	SMALL STATE REDUCED VOLTAGE
15	SMALL STATE REDUCED VOLTAGE	16	SMALL STATE REDUCED VOLTAGE
16	SMALL STATE REDUCED VOLTAGE	17	SMALL STATE REDUCED VOLTAGE
17	SMALL STATE REDUCED VOLTAGE	18	SMALL STATE REDUCED VOLTAGE
18	SMALL STATE REDUCED VOLTAGE	19	SMALL STATE REDUCED VOLTAGE
19	SMALL STATE REDUCED VOLTAGE	20	SMALL STATE REDUCED VOLTAGE

ELECTRICAL SYMBOLS - GENERAL

1	SPRINKLER FLOW CONTROL VALVE	2	SMALL STATE REDUCED VOLTAGE
2	FIRE DETECTOR, FROD TEMPERATURE	3	SMALL STATE REDUCED VOLTAGE
3	SMALL STATE REDUCED VOLTAGE	4	SMALL STATE REDUCED VOLTAGE
4	SMALL STATE REDUCED VOLTAGE	5	SMALL STATE REDUCED VOLTAGE
5	SMALL STATE REDUCED VOLTAGE	6	SMALL STATE REDUCED VOLTAGE
6	SMALL STATE REDUCED VOLTAGE	7	SMALL STATE REDUCED VOLTAGE
7	SMALL STATE REDUCED VOLTAGE	8	SMALL STATE REDUCED VOLTAGE
8	SMALL STATE REDUCED VOLTAGE	9	SMALL STATE REDUCED VOLTAGE
9	SMALL STATE REDUCED VOLTAGE	10	SMALL STATE REDUCED VOLTAGE
10	SMALL STATE REDUCED VOLTAGE	11	SMALL STATE REDUCED VOLTAGE
11	SMALL STATE REDUCED VOLTAGE	12	SMALL STATE REDUCED VOLTAGE
12	SMALL STATE REDUCED VOLTAGE	13	SMALL STATE REDUCED VOLTAGE
13	SMALL STATE REDUCED VOLTAGE	14	SMALL STATE REDUCED VOLTAGE
14	SMALL STATE REDUCED VOLTAGE	15	SMALL STATE REDUCED VOLTAGE
15	SMALL STATE REDUCED VOLTAGE	16	SMALL STATE REDUCED VOLTAGE
16	SMALL STATE REDUCED VOLTAGE	17	SMALL STATE REDUCED VOLTAGE
17	SMALL STATE REDUCED VOLTAGE	18	SMALL STATE REDUCED VOLTAGE
18	SMALL STATE REDUCED VOLTAGE	19	SMALL STATE REDUCED VOLTAGE
19	SMALL STATE REDUCED VOLTAGE	20	SMALL STATE REDUCED VOLTAGE

ELECTRICAL ABBREVIATIONS

1	APR FRAME	2	APR FRAME
2	APR FRAME	3	APR FRAME
3	APR FRAME	4	APR FRAME
4	APR FRAME	5	APR FRAME
5	APR FRAME	6	APR FRAME
6	APR FRAME	7	APR FRAME
7	APR FRAME	8	APR FRAME
8	APR FRAME	9	APR FRAME
9	APR FRAME	10	APR FRAME
10	APR FRAME	11	APR FRAME
11	APR FRAME	12	APR FRAME
12	APR FRAME	13	APR FRAME
13	APR FRAME	14	APR FRAME
14	APR FRAME	15	APR FRAME
15	APR FRAME	16	APR FRAME
16	APR FRAME	17	APR FRAME
17	APR FRAME	18	APR FRAME
18	APR FRAME	19	APR FRAME
19	APR FRAME	20	APR FRAME

NOTE: THIS IS A STANDARD SYMBOLS SHEET. THEREFORE NOT ON THE PLAN.

VERIFICATION: MARY A. FELISH P.E.

DATE: 02/09/2010

PROJECT: CITY OF MARIETTA PUMP STATION

SCALE: AS SHOWN

PROJECT NO: 020829240

DATE: 02/09/2010

PROJECT: CITY OF MARIETTA PUMP STATION

SCALE: AS SHOWN

PROJECT NO: 020829240

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SCALE: AS SHOWN

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DATE: 02/09/2010

PROJECT: CITY OF MARIETTA PUMP STATION

SCALE: AS SHOWN

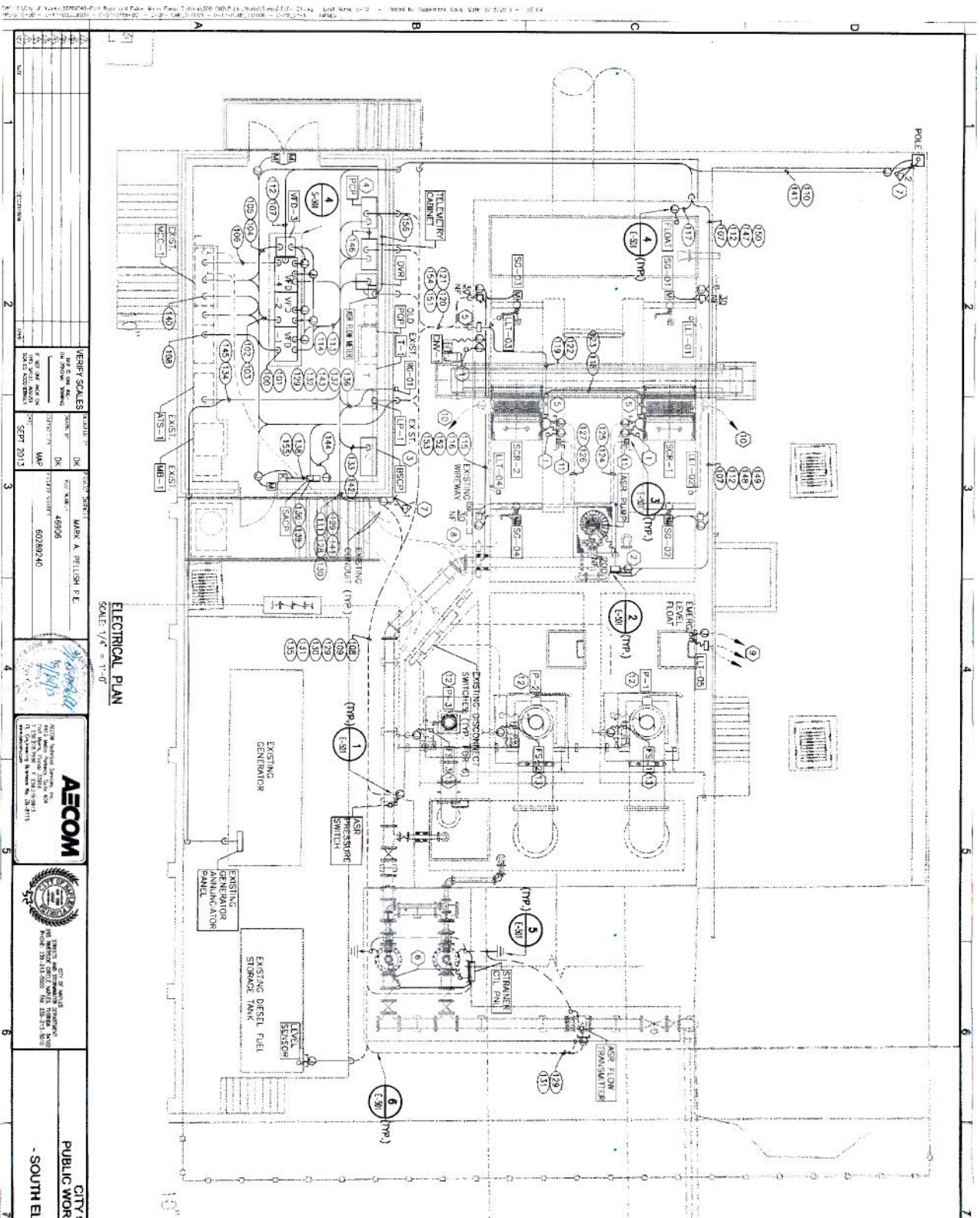
PROJECT NO: 020829240

DATE: 02/09/2010

PROJECT: CITY OF MARIETTA PUMP STATION

SCALE: AS SHOWN

PROJECT NO: 020829240



ELECTRICAL PLAN
SCALE 1/4" = 1'-0"

NO.	DATE	DESCRIPTION	BY	CHECKED
1	SEPT 2013	ISSUED FOR PERMIT	MAP	DK
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3				
4				
5				
6				
7				
8				

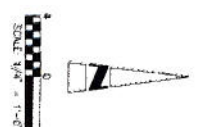
VERIFY SCALES
 DATE: 09/26/13
 BY: MAP
 CHECKED: DK
 PROJECT: MARK A. PELLISH P.E.
 DRAWING NO: 60049240
 SHEET NO: 23

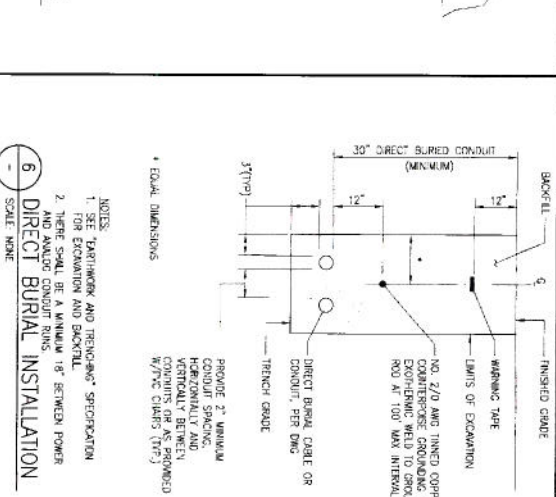
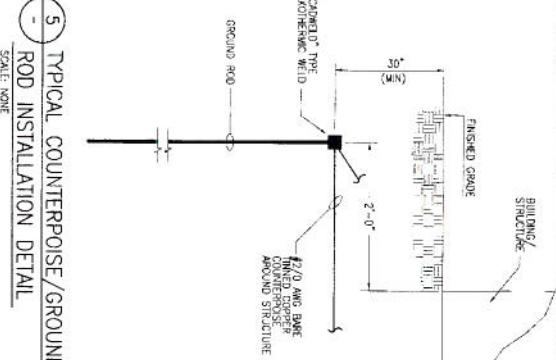
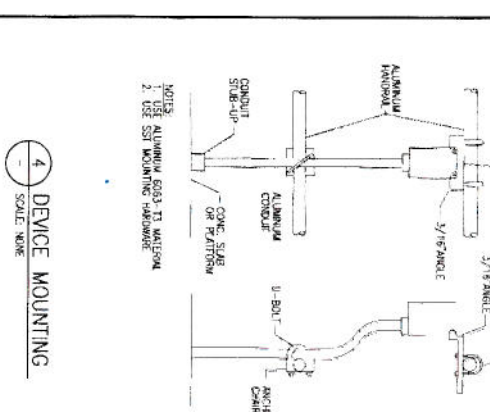
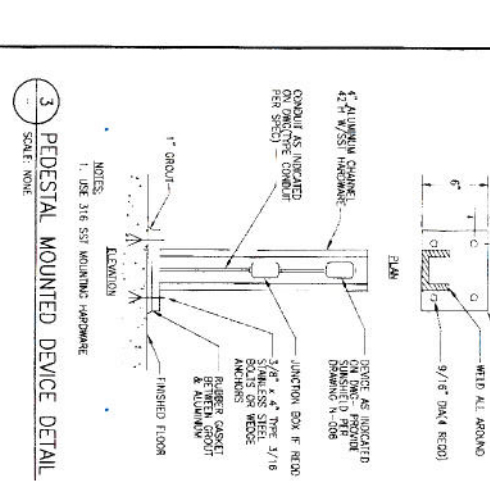
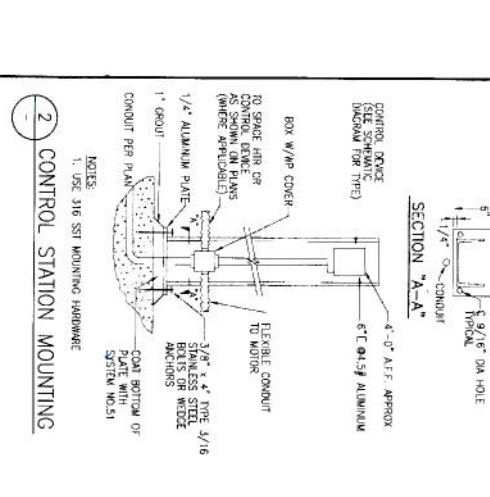
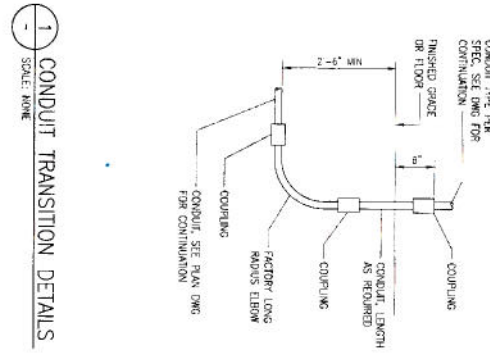


CITY OF NAPLES
 PUBLIC WORKS PUMP STATION
 SOUTH ELECTRICAL PLAN

E-101
 23

- GENERAL NOTE:**
- AREAS WITHIN 30' OF ANY OPENING TO CHASE OR SCREEN IS CLASSIFIED AS CLASS 1, UNLESS OTHERWISE NOTED. ALL ELECTRICAL RINGS OVER THE 30' AREA.
- SPECIFIC NOTES:**
1. EQUIPMENT SHUTDOWN CONTROL DEVICE TO BE INSTALLED ON CONTROL CIRCUIT.
 2. PROVIDE A 1/2"x1/2" 304 STAINLESS STEEL HAZARD ENCLOSURE AT PUMP LOCATION IDENTIFIED WITH PERmit WITH ENCLOSURE.
 3. REMOVE AND REPLACE BAY SCREENS CONTROL PANEL.
 4. REMOVE EXISTING BAY CONTROL PANEL AND ALL ASSOCIATED CONDUIT AND WIRE AND REROUTE NEW PUMP CONTROL PANEL (P-3).
 5. RELOCATE BAY SCREEN AUTOLUBE PANELES.
 6. FROM STRAINER CONTROL PANEL TO PUMP - PROVIDE 1/2" 304 STAINLESS STEEL HAZARD ENCLOSURE AT PUMP LOCATION IDENTIFIED WITH PERmit WITH ENCLOSURE.
 7. PROVIDE 1/2" 304 STAINLESS STEEL HAZARD ENCLOSURE AT PUMP LOCATION IDENTIFIED WITH PERmit WITH ENCLOSURE.
 8. REMOVE EXISTING CONDUIT TO WAFR ROOM FOR THE 12" PROTECT PER TO ENTER SIDE WALL TO STRUCTURE.
 9. REMOVE EXISTING LOW VOLTAGE INDICATORS AND REPLACE WITH NEW MANUFACTURER'S SPECIFIED INDICATORS RECONNECTED TO EXISTING CONDUCTORS (TO BOP).
 10. DISCONNECT AND RECONNECT PUMP.
 11. PROVIDE 1/2" 304 STAINLESS STEEL HAZARD ENCLOSURE AT PUMP LOCATION IDENTIFIED WITH PERmit WITH ENCLOSURE.
 12. PROVIDE 1/2" 304 STAINLESS STEEL HAZARD ENCLOSURE AT PUMP LOCATION IDENTIFIED WITH PERmit WITH ENCLOSURE.
 13. PROVIDE 1/2" 304 STAINLESS STEEL HAZARD ENCLOSURE AT PUMP LOCATION IDENTIFIED WITH PERmit WITH ENCLOSURE.
 14. PROVIDE HOUSING/ENCLOSURE FOR P-3.

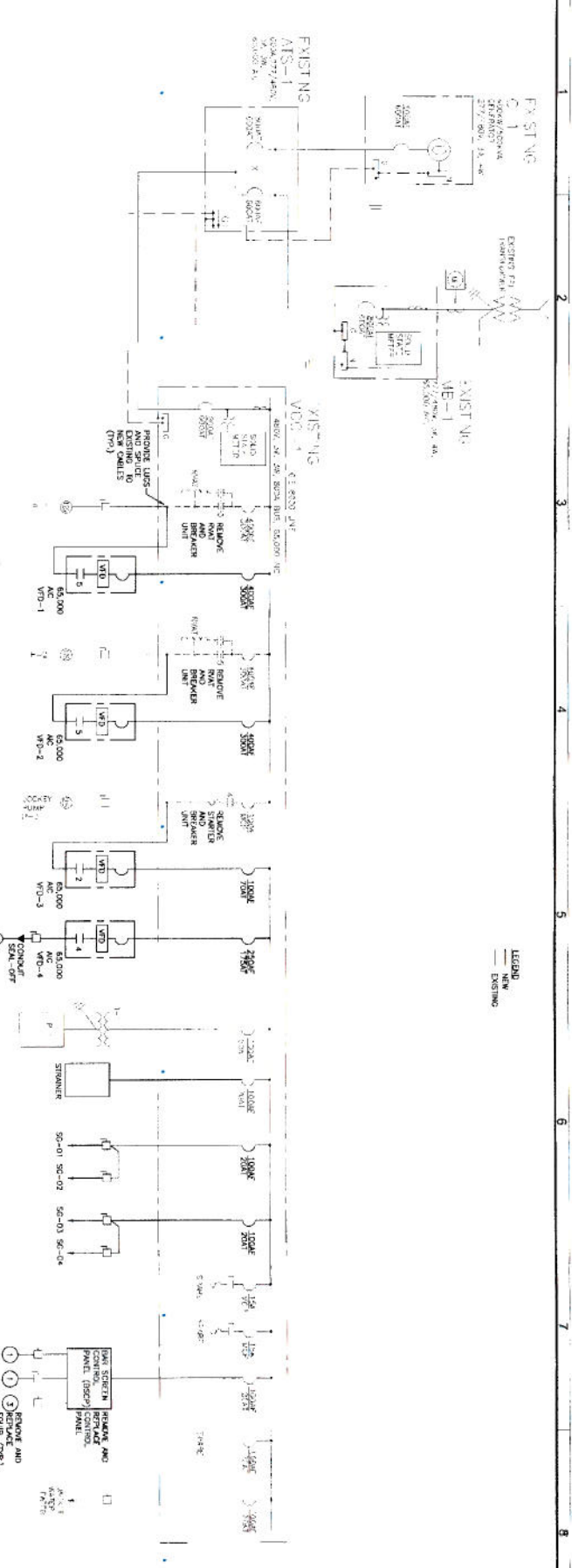




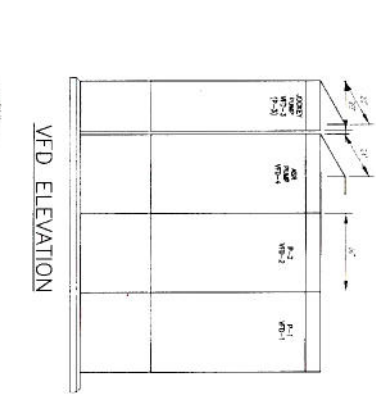
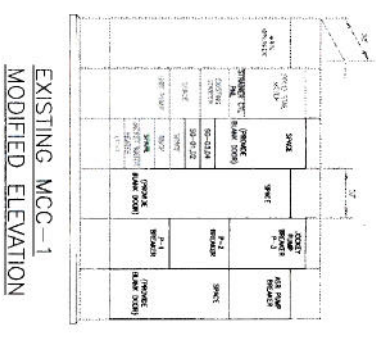
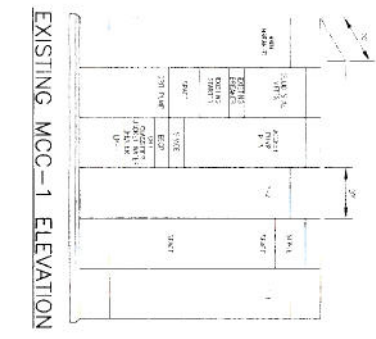
NOTES:
 1. SEE "PARTWORK AND TRENCHING" SPECIFICATION FOR EXCAVATION AND BACKFILL.
 2. THERE SHALL BE A MINIMUM 18" BETWEEN POWER AND SIGNAL CONDUIT RUNS.
 * EQUAL DIMENSIONS

PROVIDE 2\"/>

5 TYPICAL COUNTERPOISE/GROUND ROD INSTALLATION DETAIL SCALE: NONE		6 DIRECT BURIAL INSTALLATION SCALE: NONE	
VERIFY SCALES ARCH. DATE: _____ ELECTR. DATE: _____ MECH. DATE: _____ CIVIL DATE: _____ DATE: _____	PROJECT NO.: _____ SHEET NO.: _____ SHEET TOTAL: _____ DATE: _____	AECOM 2575 G ST. SUITE 200 FORT WORTH, TX 76104 TEL: 817.339.3200 FAX: 817.339.3201 WWW.AECOM.COM	CITY OF NAPLES PUBLIC WORKS PUMP STATION ELECTRICAL DETAILS
E-501 25	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8



SINGLE LINE DIAGRAM

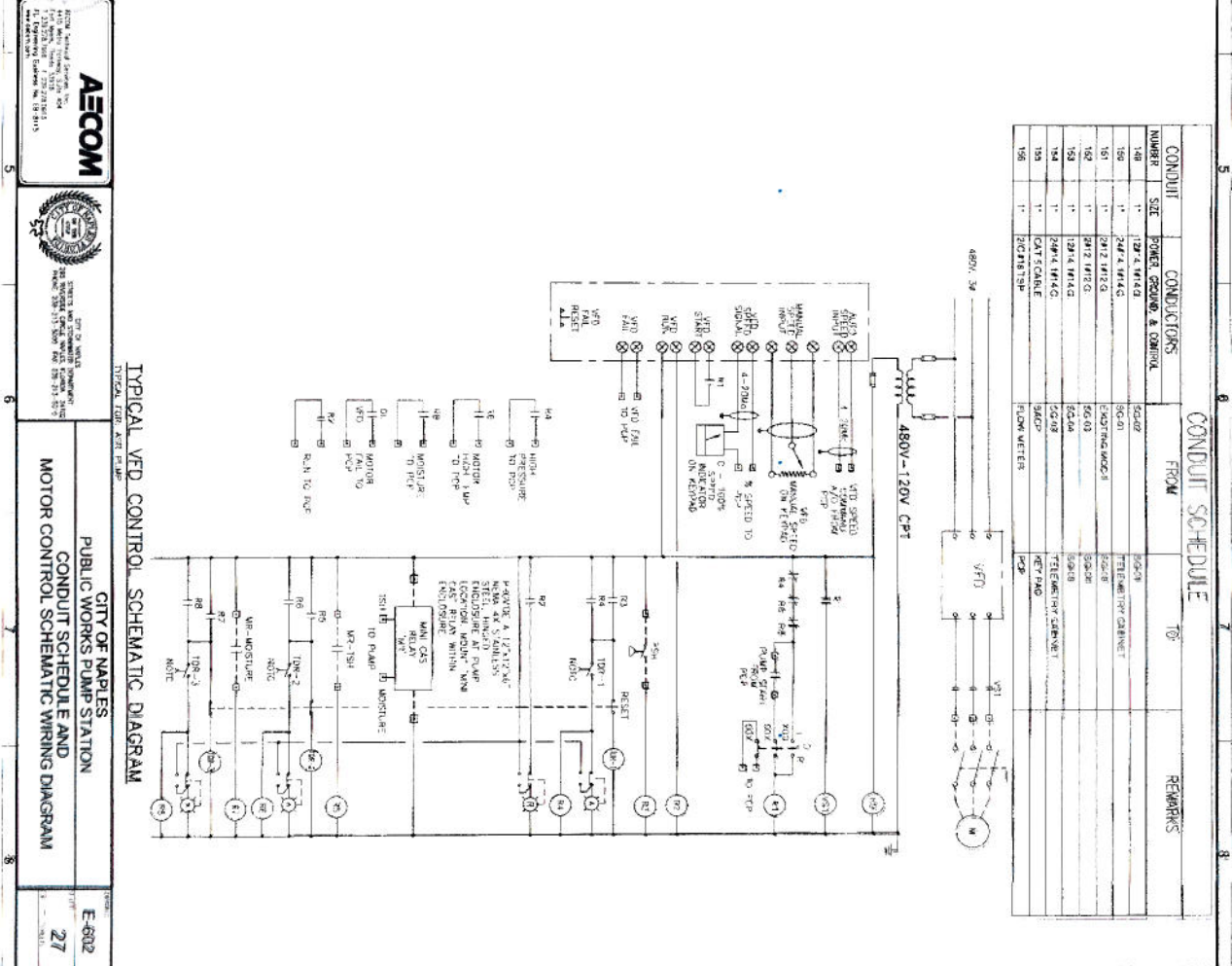


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NO.	DATE	DESCRIPTION																															
1	08/27/13	ISSUED FOR PERMIT																															
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6	09/23/13	REVISED PER COMMENTS																															
7	09/23/13	REVISED PER COMMENTS																															
8	09/23/13	REVISED PER COMMENTS																															

CITY OF NARISS
PUBLIC WORKS PUMP STATION
SINGLE LINE DIAGRAM

E-801
26

CONDUIT		CONDUIT SCHEDULE		REMARKS	
NUMBER	SIZE	FROM	TO		
109	2"	POWER, GROUND, & CONTROL			
110	2"	EXISTING MCC-1 (P-11)	VFD-1		
111	2"	EXISTING MCC-1 (P-11)	VFD-2		
112	2"	EXISTING MCC-1 (P-11)	VFD-3		
113	2"	EXISTING MCC-1 (P-11)	VFD-4		
114	2"	EXISTING MCC-1 (P-11)	VFD-5		
115	2"	EXISTING MCC-1 (P-11)	VFD-6		
116	2"	EXISTING MCC-1 (P-11)	VFD-7		
117	2"	EXISTING MCC-1 (P-11)	VFD-8		
118	2"	EXISTING MCC-1 (P-11)	VFD-9		
119	2"	EXISTING MCC-1 (P-11)	VFD-10		
120	2"	EXISTING MCC-1 (P-11)	VFD-11		
121	2"	EXISTING MCC-1 (P-11)	VFD-12		
122	2"	EXISTING MCC-1 (P-11)	VFD-13		
123	2"	EXISTING MCC-1 (P-11)	VFD-14		
124	2"	EXISTING MCC-1 (P-11)	VFD-15		
125	2"	EXISTING MCC-1 (P-11)	VFD-16		
126	2"	EXISTING MCC-1 (P-11)	VFD-17		
127	2"	EXISTING MCC-1 (P-11)	VFD-18		
128	2"	EXISTING MCC-1 (P-11)	VFD-19		
129	2"	EXISTING MCC-1 (P-11)	VFD-20		
130	2"	EXISTING MCC-1 (P-11)	VFD-21		
131	2"	EXISTING MCC-1 (P-11)	VFD-22		
132	2"	EXISTING MCC-1 (P-11)	VFD-23		
133	2"	EXISTING MCC-1 (P-11)	VFD-24		
134	2"	EXISTING MCC-1 (P-11)	VFD-25		
135	2"	EXISTING MCC-1 (P-11)	VFD-26		
136	2"	EXISTING MCC-1 (P-11)	VFD-27		
137	2"	EXISTING MCC-1 (P-11)	VFD-28		
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144	2"	EXISTING MCC-1 (P-11)	VFD-35		
145	2"	EXISTING MCC-1 (P-11)	VFD-36		
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148	2"	EXISTING MCC-1 (P-11)	VFD-39		

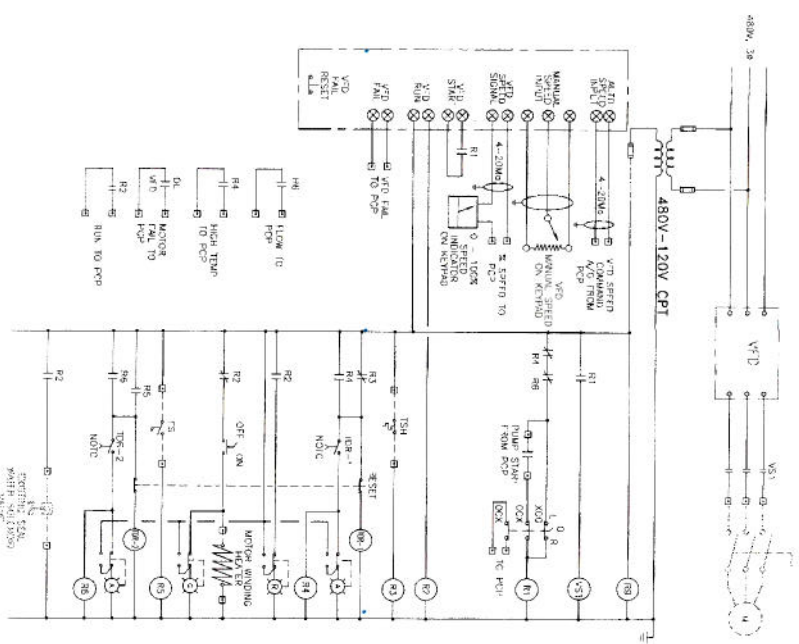


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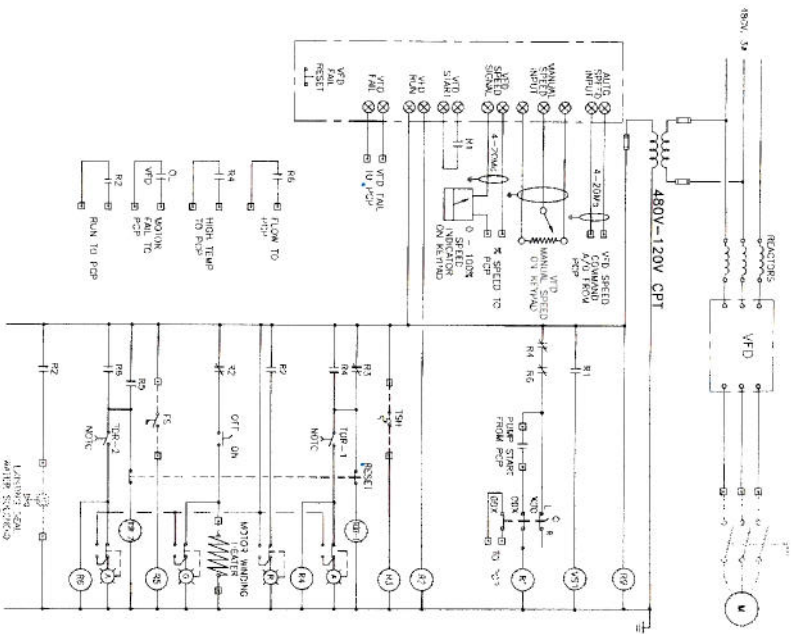
DATE: 08/21/2013
BY: MWP

MARK A. PELUSH, P.E.
REGISTERED PROFESSIONAL ENGINEER
FLORIDA LICENSE NO. 46906
60289240

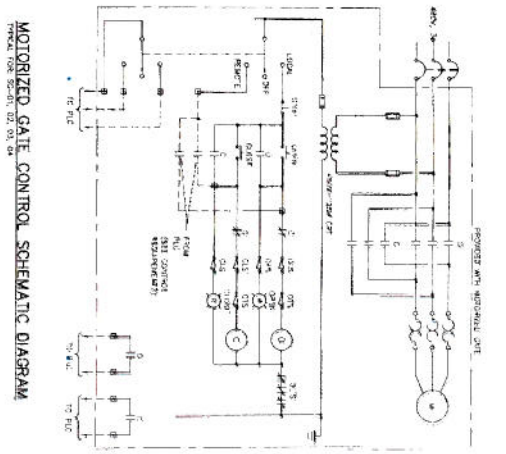
AECOM
200 S. MILITARY AVE., SUITE 200
MIAMI, FL 33130
TEL: 305.440.2200
WWW.AECOM.COM



TYPICAL VFD CONTROL SCHEMATIC DIAGRAM
TYPICAL FOR PUMP NO. 1 & 2



TYPICAL VFD CONTROL SCHEMATIC DIAGRAM
TYPICAL FOR LOCAL PUMP



MOTORIZED GATE CONTROL SCHEMATIC DIAGRAM

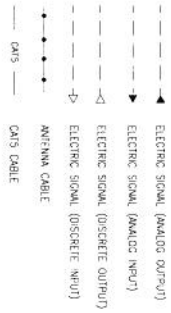
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2					
3					
4					
5					
6					
7					
8					

DESIGNED BY	MARK A. FELISA, P.E.
CHECKED BY	46986
DATE	SEPT 2013
PROJECT	MAP
NO. OF SHEETS	46986
TOTAL SHEETS	6278240

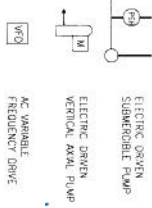
AECOM 10000 W. BAYVIEW BLVD., SUITE 100 MIAMI, FL 33154 TEL: 305.440.4000 FAX: 305.440.4001 WWW.AECOM.COM	CITY OF NAPLES PUBLIC WORKS DEPARTMENT 10000 W. BAYVIEW BLVD., SUITE 100 MIAMI, FL 33154 TEL: 305.440.4000 FAX: 305.440.4001 WWW.AECOM.COM

CITY OF NAPLES PUBLIC WORKS PUMP STATION MOTOR CONTROL SCHEMATIC WIRING DIAGRAM	SHEET E-603 28
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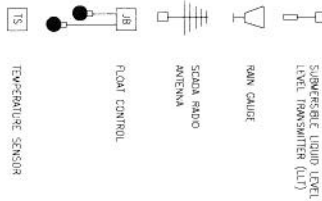
INSTRUMENT LINE SYMBOLS



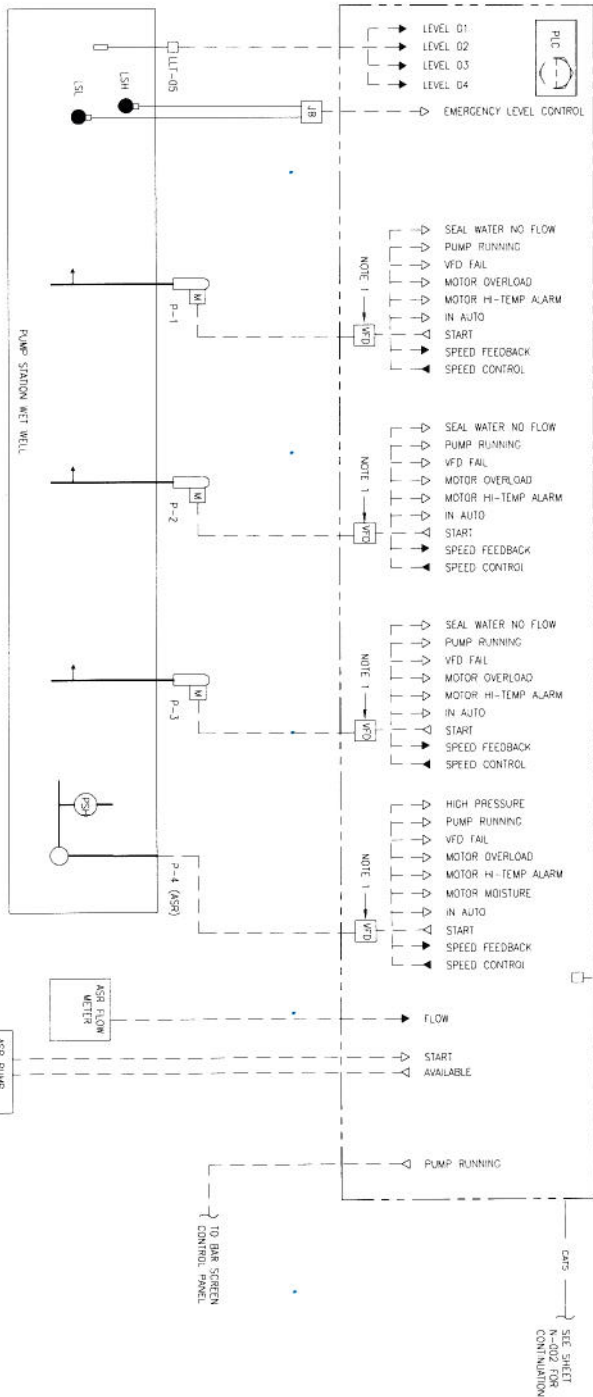
PUMPS, MOTORS & DRIVES



PRIMARY ELEMENTS



CONTROL & INSTRUMENTATION DIAGRAM
PUMP CONTROL PANEL (PCP)



SCHEDULE 'A' P-1
INPUTS FROM PUMP P-1

A	SEAL WATER NO FLOW
B	PUMP RUNNING
C	VFD FAIL
D	MOTOR OVERLOAD
E	MOTOR HI-TEMP ALARM
F	IN AUTO

SCHEDULE 'B' P-2
INPUTS FROM PUMP P-2

A	SEAL WATER NO FLOW
B	PUMP RUNNING
C	VFD FAIL
D	MOTOR OVERLOAD
E	MOTOR HI-TEMP ALARM
F	IN AUTO

SCHEDULE 'C' P-3
INPUTS FROM PUMP P-3

A	SEAL WATER NO FLOW
B	PUMP RUNNING
C	VFD FAIL
D	MOTOR OVERLOAD
E	MOTOR HI-TEMP ALARM
F	IN AUTO

SCHEDULE 'D' P-4
INPUTS FROM PUMP P-4

A	HIGH PRESSURE
B	PUMP RUNNING
C	VFD FAIL
D	MOTOR OVERLOAD
E	MOTOR HI-TEMP ALARM
F	MOTOR MOISTURE
C	IN AUTO

NOTES
1. FOR CONTROL WIRING SCHEMATIC SEE DRAWING E-1002 & E-1013

DESIGNED BY	THOMAS J. LEPONE, P.E.
CHECKED BY	THOMAS J. LEPONE, P.E.
DATE	SEPT 2013
PROJECT NO.	1311044
PROJECT NAME	CITY OF NAPLES PUBLIC WORKS PUMP STATION
SCALE	AS SHOWN
DATE	SEPT 2013

AECOM

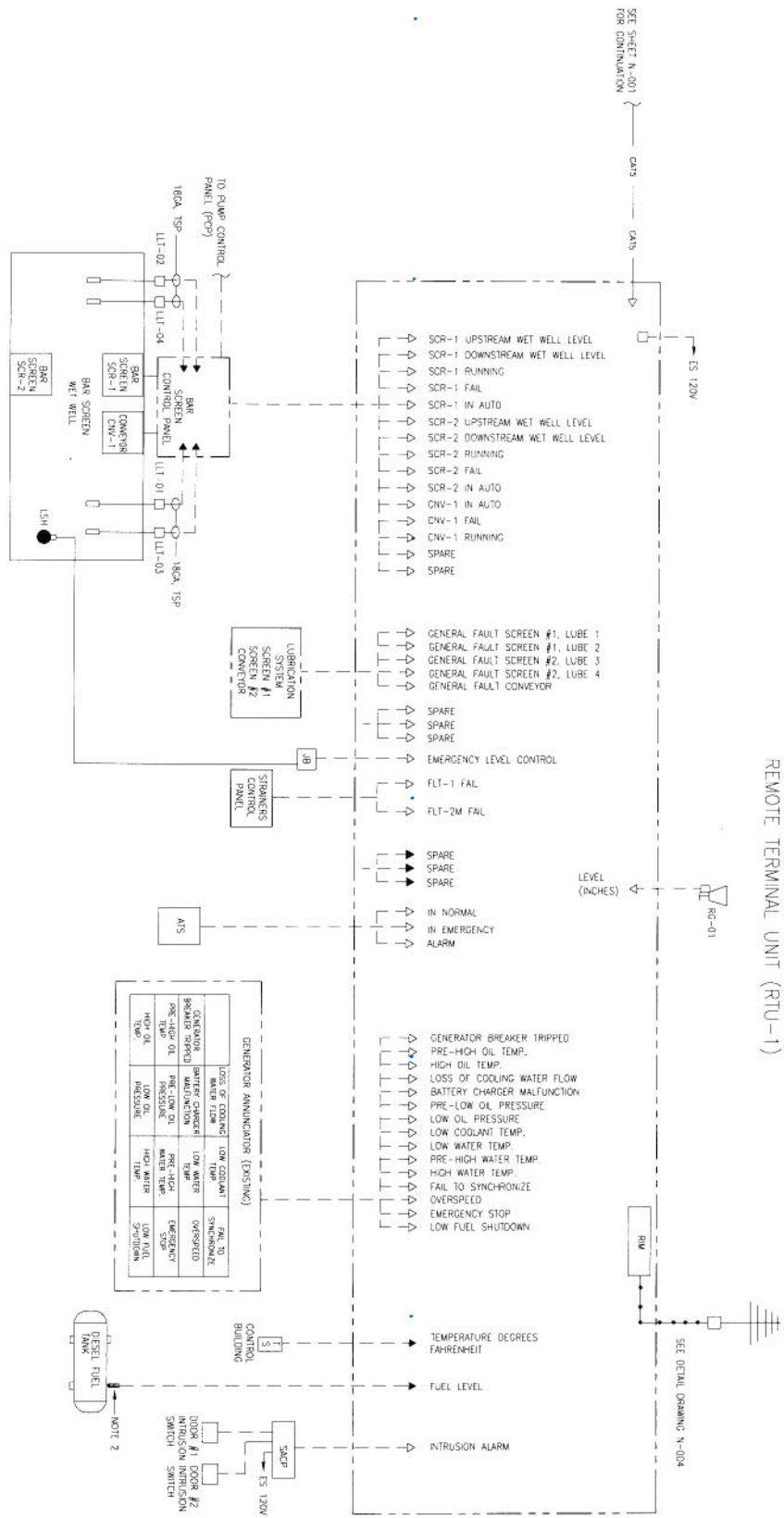
12501 WOODBRIDGE DRIVE, SUITE 200
FORT LAUDERDALE, FL 33309
TEL: (754) 370-7000
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PELICAN ENGINEERING CONSULTANTS, LLC

1100 UNIVERSITY BLVD, SUITE 1100
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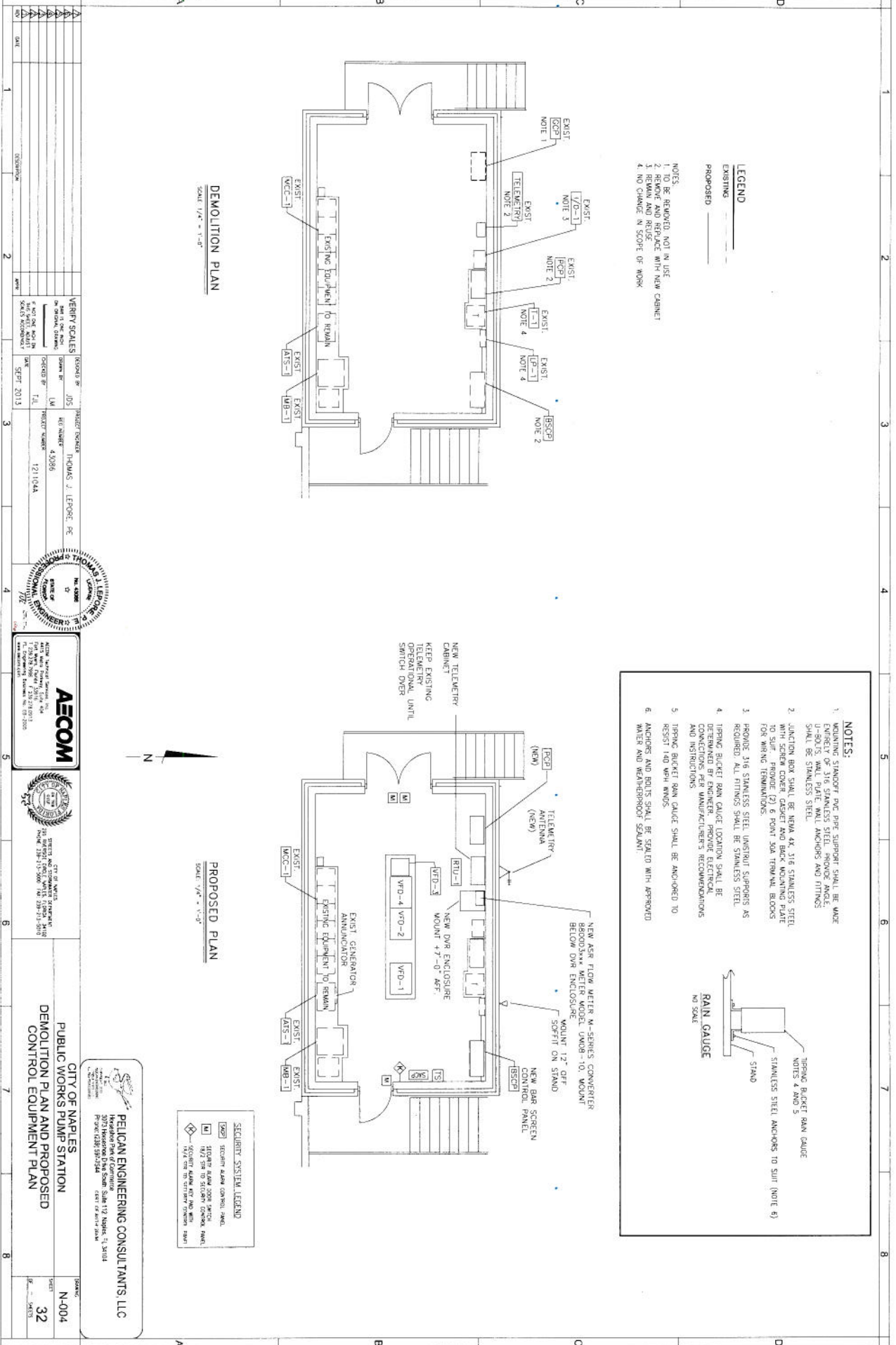
PROJECT	N-001
SHEET	29
DATE	09/16/13

CONTROL & INSTRUMENTATION DIAGRAM REMOTE TERMINAL UNIT (RTU-1)



- NOTES**
1. FOR CONTROL WIRING SCHEMATIC SEE DRAWING E-602 & E-603
 2. PROVIDE FUEL TANK LEVEL SENSOR AS SPECIFIED SECTION 405020 INSTRUMENTATION EQUIPMENT.

	PROJECT NO. 121104 PROJECT NAME: CITY OF NAPLES RECOMMENDATIONS FOR NAPLES ACQU (30.95) (21104-N-002-30 CONTROL AND INSTR)	DESIGNER: THOMAS J. LEPORE, P.E. DATE: SEPT 2013	CHECKED BY: JLS DATE: 12/11/14	DRAWN BY: LLL DATE: 12/11/14	PROJECT LOCATION: HOVANS J. LEPORE, P.E. PROJECT NO. 121104 PROJECT NAME: CITY OF NAPLES RECOMMENDATIONS FOR NAPLES ACQU (30.95) (21104-N-002-30 CONTROL AND INSTR)
CITY OF NAPLES PUBLIC WORKS PUMP STATION CONTROL & INSTRUMENTATION DIAGRAM					
PELICAN ENGINEERING CONSULTANTS, LLC 3073 HIGHLAND DR SW SUITE 300 NAPLES, FL 34104 PHONE: (239) 597-7254 FAX: (239) 597-7254					
SHEET	NO. 30				



LEGEND

- EXISTING _____
 PROPOSED _____
- NOTES:
 1. TO BE REMOVED, NOT IN USE
 2. REMOVE AND REPLACE WITH NEW CABINET
 3. REMOVE AND REPLACE WITH NEW CABINET
 4. NO CHANGE IN SCOPE OF WORK

NOTES:

1. MOUNTING STANDOFF PVC PIPE SUPPORT SHALL BE W/AGE EXHIBIT OF 316 STAINLESS STEEL PROVIDE ANGLE: 1/2" X 1/2" X 1/8" STAINLESS STEEL ANCHORS AND FITTINGS SHALL BE STAINLESS STEEL.
2. JUNCTION BOX SHALL BE NEMA 4X, 316 STAINLESS STEEL WITH SCREW COVER (2) POINT FOR TERMINAL BLOCKS FOR WIRING TERMINATIONS.
3. PROVIDE 316 STAINLESS STEEL UNISTRUT SUPPORTS AS REQUIRED. ALL FITTINGS SHALL BE STAINLESS STEEL.
4. TYPING BUCKET RAIN CALICE LOCATION SHALL BE DETERMINED BY ENGINEER. PROVIDE ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
5. TYPING BUCKET RAIN CALICE SHALL BE ANCHORED TO RESIST 140 WPM WINDS.
6. ANCHORS AND BOLTS SHALL BE GALVALD WITH APPROVED WATER AND WEATHERPROOF SEALANT.

RAIN GAUGE
 NOT SCALE

DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

PROPOSED PLAN
 SCALE: 1/4" = 1'-0"

SECURITY SYSTEM LEGEND

- SECURITY ALARM CONTROL PANEL
- SECURITY ALARM CONTROL PANEL
- SECURITY ALARM KEY AND BELL
- SECURITY ALARM KEY AND BELL

VERIFY SCALES

NO.	DATE	BY	REVISION
1	03/28/2013

PROJECT NUMBER: THOMAS J. LEPORE, P.E.
 PROJECT NUMBER: 121104A
 DATE: SEPT 2013



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PUBLIC WORKS NAPLES

DEMOLITION PLAN AND PROPOSED CONTROL EQUIPMENT PLAN

CITY OF NAPLES

DELICAN ENGINEERING CONSULTANTS, LLC
 3075 Henderson Park Square, Suite 112, Naples, FL 34104
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PROJECT: N-004
 SHEET: 32
 OF: 36

