

PIPELINE GENERAL NOTES

- STATIONING AND DISTANCES SHOWN ON THE DRAWINGS ARE BASED ON HORIZONTAL MEASUREMENTS PROJECTED FROM THE PIPE CENTERLINE UNLESS NOTED OTHERWISE.
- STRUCTURAL CONCRETE SHALL BE CLASS "A" 4000 PSI, UNLESS INDICATED OTHERWISE. SEE SPECIFICATION SECTION 030500.
- VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. ANY CONFLICTS BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE OWNER'S REPRESENTATIVE WHO WILL DETERMINE THE INTENT OF THE DRAWINGS.
- UTILITIES, BOTH EXISTING AND THOSE NOTED AS FUTURE WHICH MAY OR MAY NOT EXIST AT THE TIME OF CONSTRUCTION, ARE SHOWN ON THESE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR. SUBSURFACE UTILITY DATA ARE DEPICTED TO LEVEL D AS DEFINED IN "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"; CI/ASCE 38-02. NOT ALL LATERALS ARE SHOWN.
- TAKE PRECAUTIONARY MEASURES TO PROTECT UTILITIES AND STRUCTURES SHOWN AS WELL AS ANY AND ALL OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO ORIGINAL DESIGN CONDITION AND/OR THE APPLICABLE REQUIREMENTS OF THE AFFECTED UTILITY AT THE CONTRACTOR'S EXPENSE. APPROVAL BY NCSO SHALL ALSO BE REQUIRED.
- COORDINATE UNDERGROUND UTILITY MARKING WITH THE LOCAL UNDERGROUND SERVICE ALERT JURISDICTION (CALL 811) PRIOR TO CONSTRUCTION.
- USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS, OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT. PROTECT FROM DAMAGE INCURRED DURING CONSTRUCTION ALL OVERHEAD UTILITY LINES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS. NOTIFY UTILITY COMPANIES PRIOR TO ANY WORK IN OVERHEAD LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR COST INCURRED.
- PRESERVE ALL SURVEY MARKERS AND MONUMENTATION. THOSE REQUIRING REMOVAL SHALL BE RE-ESTABLISHED IN ACCORDANCE WITH THE LOCAL GOVERNING AUTHORITY.
- LIMIT CONSTRUCTION ACTIVITIES TO THE RIGHT-OF-WAY AND EASEMENTS AND DESIGNATED AREAS SHOWN ON THE DRAWINGS.
- COMPACTION OF BACKFILL MATERIALS SHALL BE BY MECHANICAL EQUIPMENT IN ACCORDANCE WITH SPECIFICATION SECTION 312316. NO FLOODING OR JETTING WILL BE ALLOWED.
- AT THE CLOSE OF EACH WORKING SHIFT, WHERE A NEXT SHIFT WILL NOT IMMEDIATELY FOLLOW, CONSTRUCT PIPE END CAPS AND TRENCH RAMPS AT THE END OF THE EXCAVATION. PREVENT UNAUTHORIZED ENTRY INTO THE OPEN PIPE AND TRENCH. PROVIDE SECURITY FENCING AT ALL TIMES AROUND WORK AREA. SEE NOTE 14 BELOW.
- VERIFY LOCATIONS AND DEPTHS OF EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION. LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
- ALL SPECIFICATIONS, DRAWINGS, AND DETAILS INCLUDED IN THE CONTRACT DOCUMENTS SHALL FULLY APPLY TO THE WORK WHETHER SPECIFICALLY REFERENCED OR NOT.
- INSTALL HIGH-VISIBILITY SAFETY FENCING ("SNOW-TYPE") AROUND DESIGNATED WORK AREAS AS A WARNING. FENCE SHALL HAVE CONTINUOUS REFLECTIVE TAPE ATTACHED AT THE TOP. INSTALL FENCING (TEMPORARY 6-FOOT HIGH CHAIN LINK) AROUND ALL STORAGE AREAS AND AROUND DESIGNATED AREAS OF NON-DISTURBANCE.
- PROJECT SPECIFIC GEOTECHNICAL INFORMATION IS CONTAINED IN THE FOLLOWING:
 - A. GEOTECHNICAL REPORT, NIPOMO-SANTA MARIA INTERTIE, BLOSSER ROAD TO TEFTT STREET, NIPOMO COMMUNITY SERVICES DISTRICT, CA., MARCH 2009, FUGRO WEST INC.
- GROUND WATER PUMPED FROM EXCAVATION AND JACKING/RECEIVING SHAFTS MAY BE DISCHARGED IN ACCORDANCE WITH APPLICABLE PERMITS AND REGULATIONS. GROUND WATER SHALL NOT BE DISCHARGED TO THE STREET OR SURROUNDING AREA WITHOUT A PERMIT. NO DISCHARGE TO SANITARY SEWERS WILL BE ALLOWED UNLESS PRIOR PERMISSION IS GRANTED BY THE DISTRICT.
- VIDEO TAPE AND DOCUMENT THE PRE-EXISTING CONDITIONS OF PROPERTIES ADJACENT TO THE PROJECT, AND SUBMIT THE TAPE TO THE DISTRICT PRIOR TO THE START OF CONSTRUCTION. PROTECT ADJACENT PROPERTIES DURING WORK AND REPAIR DAMAGE TO LANDSCAPING, PAVING, IRRIGATION, STRUCTURES, ETC., CAUSED BY THE WORK.
- UPON LEARNING OF THE EXISTENCE AND LOCATIONS OF ANY UNDERGROUND FACILITIES NOT SHOWN OR SHOWN INACCURATELY ON THESE PLANS OR NOT PROPERLY MARKED BY THE UTILITY OWNER. IMMEDIATELY NOTIFY THE DISTRICT AND THE OWNER'S REPRESENTATIVE BY TELEPHONE AND IN WRITING.
- MAINTAIN THE WORK AREA IN A NEAT, CLEAN, AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE OWNER, OWNER'S REPRESENTATIVE AND AGENCY WITH LOCAL JURISDICTION. STREETS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCES BEING CONTROLLED AT ALL TIMES.
- MAINTAIN A COMPLETE AND ACCURATE RECORD OF ALL CHANGES IN CONSTRUCTION FROM THAT SHOWN IN THESE PLANS AND SPECIFICATIONS FOR THE PURPOSE OF PROVIDING A BASIS FOR RECORD DRAWINGS. THE CONTRACTOR SHALL NOTE DEVIATIONS FROM THE PLANS ON A SET OF PLANS SPECIFICALLY SET ASIDE FOR THIS PURPOSE. ANY CHANGES SHALL BE MADE ON THE ORIGINALS OF THE PLANS. NO CHANGES FROM THAT SHOWN ON THESE PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.

UTILITY POT HOLE DATA				
LABEL	PAVEMENT THICKNESS (FT)	SURFACE ELEV. (FT)	DEPTH TO TOP OF PIPE (FT)	MATERIAL, PIPE SIZE AND NOTES
PH #4	0.50	334.81	2.83	12" PVC WATER
PH #5	0.29	335.42	4.21	6" SEWER FORCE MAIN
PH #6	0.33	335.63	3.00	3" PLASTIC GAS
PH #7	0.46	312.26	3.17	3" PLASTIC GAS
PH #8	0.25	312.45	3.08	6" A.C. WATER
PH #9	0.29	338.66	1.83	6" H.P. STEEL GAS
PH #11	0.46	338.87	DNF	SEWER FORCE MAIN
PH #12	0.50	339.00	3.58	4" AT&T CONDUIT
			4.17	4" AT&T CONDUIT
PH #13	0.38	339.49	4.08	4" PLASTIC GAS
PH #14	0.33	363.70	3.83	6" H.P. STEEL GAS
PH #15	0.42	364.47	4.42	3" PLASTIC GAS

GENERAL NOTES

- ALL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NCSO STANDARD SPECIFICATIONS, UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS.
- THE DISTRICT SHALL BE NOTIFIED AT LEAST SEVEN (7) WORKING DAYS PRIOR TO START OF CONSTRUCTION. TELEPHONE (805) 939-1133. CONSTRUCTION WILL NOT TAKE PLACE ON WEEKENDS UNLESS SPECIFICALLY APPROVED BY DISTRICT. A PRECONSTRUCTION MEETING IS REQUIRED IN ACCORDANCE WITH DISTRICT STANDARDS SECTION GC 3.6.
- ALL PIPE, FITTINGS, MATERIALS, AND INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF THE AWWA SPECIFICATIONS.
- CONTRACTORS WILL COORDINATE ALL TIE-INS OF NEW WATER MAINS TO EXISTING WATER MAINS WITH THE DISTRICT TO MINIMIZE SERVICE INTERRUPTIONS. PROVIDE AT LEAST 2 WORKING DAYS NOTICE PRIOR TO CONSTRUCTION. CONNECTIONS TO EXISTING SYSTEM SHALL OCCUR BETWEEN THE HOURS OF 9:00 PM AND 3:00 AM.
- THE WATER SYSTEM, INCLUDING LATERALS, SHALL BE HYDROSTATICALLY TESTED PRIOR TO PLACING STREET PAVEMENT PER SPECIFICATION SECTION 400515.
- WATER LINES SHALL HAVE A MINIMUM COVER OF 36 INCHES.
- CONTRACTOR SHALL ADJUST VALVE BOXES, FIRE HYDRANT BREAK-OFF FLANGES, METER BOXES, ETC. TO FINISH GRADES AFTER CURBS AND GUTTERS, SIDEWALKS, AND STREETS HAVE BEEN CONSTRUCTED AT NO COST TO DISTRICT.
- WHERE FIRE HYDRANTS ARE INSTALLED OR UP GRADED, THE CONTRACTOR SHALL INSTALL REFLECTORIZED, RAISED PAVEMENT MARKERS (STIMSONITE HYDRANT MARKERS), ALSO COMMONLY CALLED "BLUE DOTS". A TWO PART EPOXY ADHESIVE SHALL BE USED TO INSTALL THE MARKERS. ONE MARKER SHALL BE INSTALLED PERPENDICULARLY OPPOSITE EACH FIRE HYDRANT, APPROXIMATELY 6-INCHES OFFSET FROM THE CENTERLINE OF THE STREET ON THE HYDRANT SIDE OF THE STREET.
- SERVICES THAT DO NOT COME STRAIGHT OFF THE MAIN ARE TO HAVE TAPE MARKED "CAUTION WATER LINE BELOW". TAPE TO BE INSTALLED 12-INCHES ABOVE THE SERVICE.
- FIRE HYDRANTS, METER BOXES AND BLOWOFFS SHALL BE LOCATED NO CLOSER THAN 5- FEET FROM BEGINNING OF CURB RETURN, DRIVEWAY OR ANY OTHER UTILITY.
- WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE ENCROACHMENT PERMITS.

SURVEY NOTES

- TOPOGRAPHIC SURVEY PREPARED BY WALLACE GROUP.
- THE HORIZONTAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983 CORRS 1996 ADJUSTMENT (NAD83(CORS96)), EPOCH DATE OF 2002.0000. THE PROJECTION IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 5 PROJECTION.
- THE ORTHOMETRIC HEIGHTS (ELEVATIONS) ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88). THIS SURVEY TIED TO THE POINT DESIGNATED AS PT. NO 1135 ON THE RECORD OF SURVEY FOUND IN BOOK 147 ON PAGES 57-61 IN THE OFFICE OF THE RECORDER OF SANTA BARBARA COUNTY OF CALIFORNIA, HAVING A PUBLISHED ELEVATION OF 192.50'.
- ORTHOPHOTOGRAPHY AND AERIAL MAPPING PRODUCED BY: GOLDEN STATE AERIALS, INC. PHOTOGRAPHY DATED: 9/3/2008 AND 10/9/2008

UTILITY POT HOLE DATA (CONT.)				
LABEL	PAVEMENT THICKNESS (FT)	SURFACE ELEV. (FT)	DEPTH TO TOP OF PIPE (FT)	MATERIAL, PIPE SIZE AND NOTES
PH #17	0.33	365.61	5.75	10" PVC WATER
PH #18	0.29	311.03	4.00	2" PVC AT&T CONDUIT
			2.83	4" PVC PG&E CONDUIT
			3.00	2" PVC CATV CONDUIT
PH #19	0.29	327.87	3.63	6" PVC WATER
PH #20	0.33	328.17	3.33	6" PVC WATER
PH #21	0.17	334.39	2.92	3" STEEL GAS
			2.75	2" PVC PG&E CONDUIT
PH #22		334.95	5.58	16" H.P. STEEL GAS
PH #24		332.74	2.17	3" STEEL GAS
PH #28		-	4.33	8" D.I. WATER
PH #29		-	5.00	8" PVC WATER
PH #31		-	3.00	8" D.I. WATER
PH #32		-	2.50	6" PVC WATER
PH #33		-	3.33	6" PVC WATER

LEGEND

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ABBREVIATIONS

AC	ASPHALTIC CONCRETE	FO	FIBER OPTIC
ARV	AIR RELEASE VALVE	MJ	MECHANICAL JOINT
AW	AIR VACUUM VALVE	PC	POINT ON CURVE
CAV	CENTERLINE	PE	PLAIN END
DA	COMBINATION AIR VALVE	PH	POTHOLED UTILITY CROSSING
DIA	DIAMETER	PI	POINT OF INFLECTION
DIP	DUCTILE IRON PIPE	PL	PROPERTY LINE
EC	END OF CURVE	PP	POWER POLE
EL	ELEVATION	PRV	PRESSURE RELEASE VALVE
EXIST.	EXISTING	R/W	RIGHT-OF-WAY
FLG	FLANGE	SD	STORM DRAIN
FL	FLOW LINE	SS	SANITARY SEWER
		STA	STATION
		TS	TRAFFIC SIGNAL

AGENCY/UTILITY

AGENCY	CONTACT	PHONE NUMBER
NCSO - GENERAL MANAGER	MICHAEL LEBRUN	(805) 929-1133
NCSO- DISTRICT ENGINEER	PETER SEVCIK, P.E.	(805) 929-1133
NCSO- UTILITIES SUPERINTENDENT	TINA GRIETENS	(805) 929-1341
USACOE - L.A.D. - PROJECT MANAGER	EHSAN J. ESHRAGHI	(213) 452-4013
SBCFC&WCD - ENGINEERING MANAGER	JON FRYE, P.E.	(805) 568-3440
AT&T	NEIL ZAKARIA	(805) 546-7012
PG&E	TOM WAHWEOTTEN	(805) 546-5272
SOUTHERN CALIFORNIA GAS COMPANY	CLAUDIA TURNER	(805) 681-8024
COMCAST	ALLEN UPCHURCH	(805) 331-5113
VERIZON	SANDRA O'KEEFE	(805) 925-0057
UNDERGROUND SERVICE ALERT		811

AECOM WATER

FOR PRELIMINARY USE ONLY
NOT TO BE USED FOR CONSTRUCTION

DATE: APRIL 30, 2010
DRAFT FINAL PRELIMINARY DESIGN PLANSET

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERTIE PROJECT - BP2
 SHEET INDEX, LEGEND, ABBREVIATIONS AND GENERAL NOTES
 G-002 SHEET 2 OF 80
 AECOM PROJECT NO. 60081295
 NCSO PROJECT NO.
 CADD STDS. BOYLE/AECOM
 DESIGNED: ES
 DETAILED: JPF
 CHECKED:
 APPROVED:
 DATE: APRIL 2010
 PROJECT ENGINEER: JOSHUA H. REYNOLDS
 REV: 09-30-2009
 DESCRIPTION: WATERLINE INTERTIE PROJECT - BP2
 REVISION NUMBER: C65400
 DATE: 9/20/11
 No. 65400
 Exp. 9/20/11
 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA
 1134 Pacific Street, Suite 904
 San Luis Obispo, California 93401
 T 805.542.8840 F 805.542.8990
 www.aecom.com

DWG: W:\Nipomo_CSD_(19995)\1999570 Waterline Intertie Project Design Plans\001\PlanSet\BP-2_NIPOMO PIPELINE.dwg
 XREFS: NCSO-BD-BP2
 LAYOUT NAME: G-002
 PLOTTED BY: FRANCHIER, JIM
 DATE: 5/2/2010 - 6:42 AM

SURVEY CONTROL AND SURVEY NOTES

FOUND MONUMENT COORDINATE TABLE

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
48	2191323.88	5827013.01	192.4	1" STEEL PIPE W/ TAG INSCRIBED "LS 3485"
49	2191363.89	5827014.92	192.3	1" STEEL PIPE W/ TAG INSCRIBED "LS 3485"
51	2191260.61	5827026.03	191.4	1" STEEL PIPE W/ TAG INSCRIBED "LS 3485"
52	2191263.61	5827008.12	192.0	1" STEEL PIPE W/ TAG INSCRIBED "LS 3485"
64	2191324.55	5826995.65	191.8	1-1/4" STEEL PIPE W/ TAG INSCRIBED "LS 3485"
65	2198880.95	5826692.07	308.5	1" STEEL PIPE W/ TAG INSCRIBED "LS 3485"
66	2196065.28	5827380.94	302.7	3/4" STEEL PIPE WITH TAG INSCRIBED "LS 2391"
67	2195198.02	5826354.10	282.6	1-1/4" STEEL PIPE WITH ILLEGIBLE YELLOW PLASTIC CAP
68	2194230.33	5827171.40	285.1	1" STEEL PIPE W/ TAG INSCRIBED "LS 3485"
70	2195594.43	5825389.80	310.4	1" STEEL PIPE W/ TAG INSCRIBED "LS 3485"
71	2196204.63	5825655.31	314.1	1" STEEL PIPE W/ TAG INSCRIBED "LS 3485"
72	2196337.48	5826013.00	313.8	1" STEEL PIPE WITH OUT TAG
75	2203813.20	5821832.35	309.9	6"X8" CONCRETE MONUMENT
78	2201506.01	5819059.58	336.2	2-1/2" COUNTY SURVEYOR MONUMENT
98	2201844.38	5818964.37	340.2	1" STEEL PIPE (TOP BROKEN OFF)
119	2201451.82	5819078.90	0.0	3/4" STEEL PIPE (NO TAG)
277	2190520.16	5827156.17	195.8	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 5565"
278	2190386.72	5827140.94	195.7	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 5565"
279	2190281.84	5827130.85	195.6	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 5565"
280	2190190.95	5827126.38	195.5	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 5565"
282	2188872.98	5827063.39	194.0	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 5565"
283	2188824.53	5827060.52	193.8	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 5565"
284	2188781.51	5827054.34	193.7	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 5565"
285	2188542.58	5827009.73	192.9	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 5565"
291	2186227.29	5826847.72	196.1	BRASS CAP IN MONUMENT WELL INSCRIBED "RCE 17189"
579	2204373.99	5821618.48	310.5	1/2" RE-INFORCING BAR WITH YELLOW PLASTIC CAP INSCRIBED "LS 4442"
580	2205483.30	5820714.55	326.1	LEAD WITH TACK AND TAG INSCRIBED "RCE 31581"
581	2205580.28	5820630.84	326.9	BRASS CAP IN MONUMENT WELL INSCRIBED "RC E31581"
582	2205770.95	5820469.34	327.0	BRASS CAP IN MONUMENT WELL INSCRIBED "RC E31581"
583	2205831.52	5820421.48	328.6	LEAD WITH TACK AND TAG INSCRIBED "RCE 31581"
585	2205892.76	5820274.99	328.0	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 6883"
588	2206382.89	5819941.30	328.3	2" STEEL PIPE IN MONUMENT WELL
587	2207784.02	5818766.07	343.2	6"X8" CONCRETE MONUMENT
588	2208220.93	5818353.81	353.7	5/8" RE-INFORCING BAR W/ YELLOW PLASTIC CAP INSCRIBED "EDA LS 5683"
648	2207241.78	5819225.44	333.9	LEAD WITH TACK AND TAG INSCRIBED "LS 3485"
654	2206828.98	5819584.71	330.6	HOLE IN CONC LEAD AND TACK
655	2207082.79	5819587.93	332.1	LEAD WITH TACK AND TAG INSCRIBED "LS 4283"
690	2207748.32	5817806.09	347.8	2" BRASS CAP IN MONUMENT WELL INSCRIBED "EDA LS 5683"
691	2208131.40	5818438.21	352.7	5/8" RE-INFORCING BAR W/ YELLOW PLASTIC CAP INSCRIBED "LS 7818"
693	2201942.73	5818471.48	310.1	2" BRASS CAP IN MONUMENT WELL
694	2202834.05	5817884.09	323.6	2-1/2" COUNTY SURVEYOR MONUMENT
695	2202838.08	5817239.38	312.8	2" BRASS CAP IN MONUMENT WELL INSCRIBED "RCE 21807"
698	2203523.09	5818004.83	339.2	2" BRASS CAP IN MONUMENT WELL
697	2203399.39	5818717.84	334.9	2" BRASS CAP IN MONUMENT WELL
698	2203875.59	5818534.85	338.3	2" BRASS CAP IN MONUMENT WELL
737	2204546.09	5818265.51	364.1	2" BRASS CAP IN MONUMENT WELL
738	2204791.58	5818215.07	368.4	2" BRASS CAP IN MONUMENT WELL
739	2205045.61	5818080.98	365.1	2" BRASS CAP IN MONUMENT WELL
740	2205302.68	5818082.83	362.9	2" BRASS CAP IN MONUMENT WELL
1000	2189472.34	5827082.18	193.9	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 5565"
1001	2191270.49	5827192.17	197.2	BRASS CAP IN MONUMENT WELL INSCRIBED "LS 5565"
1099	2207444.44	5819401.88	333.3	1" STEEL PIPE WITH TAG INSCRIBED "RCE 8808"
1100	2207418.05	5819359.29	332.9	1" STEEL PIPE WITH TAG INSCRIBED "RCE 8808"
1101	2207418.30	5819356.14	332.4	1" STEEL PIPE (NO TAG)
1103	2207940.20	5819624.83	333.1	1" STEEL PIPE WITH YELLOW PLASTIC CAP INSCRIBED "LS 3673"
1104	2208192.36	5819408.03	334.7	1" STEEL PIPE WITH YELLOW PLASTIC CAP INSCRIBED "LS 3673"
1105	2208264.82	5819284.26	335.0	NAIL AND TAG INSCRIBED "RCE 29743"
1106	2208342.41	5819187.82	335.4	NAIL AND TAG INSCRIBED "RCE 29743"
1107	2208406.88	5819142.47	338.2	NAIL AND TAG INSCRIBED "RCE 29743"
1108	2208846.03	5819019.84	341.3	1/2" RE-INFORCING BAR W/ YELLOW PLASTIC CAP INSCRIBED "LS 4442"
1109	2208591.34	5819065.84	338.7	1" STEEL PIPE WITH ILLEGIBLE CAP
1110	2208793.10	5818893.81	343.1	1/2" RE-INFORCING BAR W/ YELLOW PLASTIC CAP INSCRIBED "LS 4442"
1111	2208557.55	5819064.95	338.2	PK NAIL
1112	2208240.00	5818474.59	349.8	2" BRASS CAP

SHEET LOCATION INDEX

AREA	PROGRESSION	SHEET NUMBERS
BLOSSER STREET (TAYLOR STREET TO LEVEE)	SOUTH TO NORTH	2-7
LEVEE TO JOSHUA STREET (NORTH WEST ALTERNATIVE)	SOUTH TO NORTH	8-22
EDGE OF MESA TO JOSHUA STREET (SOUTHEAST ALTERNATIVE)	EAST TO NORTH	23-29
SOUTHLAND STREET (ORCHARD TO FRONTAGE)	WEST TO EAST	30-34
FRONTAGE ROAD/HILL STREET (SOUTHLAND TO MARY)	SOUTH TO NORTH	34-41
ORCHARD STREET (SOUTHLAND TO GRANDE)	SOUTH TO NORTH	42-47
DARBY LANE/OAKLENN AVENUE FRONTAGE TO TEFFT STREET)	SOUTH TO NORTH	48-50

SURVEY CONTROL POINTS

PT. NO.	NORTHING	EASTING	ELEV.	DESC.
2	2198186.98	5827905.74	298.20	5/8" RBR NO CAP
3	2186052.90	5826778.48	186.76	PK NAIL WITH SHINER
4	2188192.85	5827770.48	188.88	MONUMENT WELL LTD
5	2187013.91	5828787.59	185.08	PK NAIL WITH SHINER
6	2188552.82	5828983.96	183.02	PK NAIL WITH SHINER
7	2188848.27	5827788.83	184.89	HOW WELL LID
8	2188471.91	5827084.42	193.94	PK NAIL WITH SHINER
9	2191256.44	5827360.22	198.30	HOW WELL LID
10	2191550.50	5828217.12	188.70	5/8" RBR NO CAP
11	2198510.09	5828180.54	307.11	PK NAIL WITH SHINER
12	2198822.46	5825305.54	298.70	PK NAIL WITH SHINER
13	2198871.92	5828841.17	308.31	PK NAIL WITH SHINER
14	2193807.74	5828453.22	185.89	5/8" RBR NO CAP
15	2192838.59	5828792.71	188.80	5/8" RBR NO CAP
16	2205291.72	5820883.14	328.04	PK NAIL WITH SHINER
17	2203919.64	5821906.40	310.33	PK NAIL WITH SHINER
18	2202951.95	5819281.50	298.94	PK NAIL WITH SHINER
19	2202262.77	5819848.58	325.73	PK NAIL WITH SHINER
20	2202679.85	5820432.98	317.86	PK NAIL WITH SHINER
21	2203988.14	5820522.98	300.38	PK NAIL WITH SHINER
22	2203319.10	5821099.11	312.80	PK NAIL WITH SHINER
23	2201480.82	5819128.48	333.97	PK NAIL WITH SHINER
24	2202258.15	5818106.78	322.50	PK NAIL WITH SHINER
25	2203014.04	5817226.12	315.31	RAG NAIL WITH SHINER
26	2203681.20	5818562.05	339.89	PK NAIL WITH SHINER
27	2204808.81	5817788.00	335.87	PK NAIL WITH SHINER
28	2203786.19	5819254.56	354.10	PK NAIL WITH SHINER
29	2204386.37	5819484.81	329.57	PK NAIL WITH SHINER
30	2207484.34	5819069.97	336.84	PK NAIL WITH SHINER
31	2208171.81	5818441.05	352.69	PK NAIL WITH SHINER
32	2208520.18	5817438.27	380.20	PK NAIL WITH SHINER
33	2208763.57	5817748.06	380.13	PK NAIL

SURVEYOR'S STATEMENT

THIS MAP REPRESENTS A SURVEY MADE BY ME AT THE REQUEST OF AECOM. THE FIELD WORK FOR THE SURVEY WAS CONDUCTED FROM AUGUST 8, 2008 THROUGH JANUARY 15, 2009.

DATE: JANUARY 28, 2009

EDWARD M. READING, LS 8081 (LICENSE EXPIRES 12/31/2009)



EASEMENT NOTES

FOR APN'S:
117-030-061
117-030-083
117-030-084

THE FOLLOWING EASEMENTS ARE LISTED PER ITEM NUMBER AS CONTAINED IN FIRST AMERICAN TITLE COMPANY REPORT NO. 4201-2491776 (MP) DATED AUGUST 16, 2006. THE EASEMENTS HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE NOT BASED ON ANY FIELD SURVEY WORK.

ITEM 4: RIGHT OF WAY FOR DITCHES AND CANALS PER C/PATENTS/68. NON-PLOTTABLE.

ITEM 5: RIGHT OF WAY FOR DITCHES AND CANALS PER C/PATENTS/188. NON-PLOTTABLE.

ITEM 6: PIPE LINE EASEMENT PER 108/DEEDS/216. NON-PLOTTABLE.

ITEM 7: PIPE LINE EASEMENT PER 106/DEEDS/217. NON-PLOTTABLE.

ITEM 9: RIGHT OF WAY FOR DITCHES AND CANALS PER 284/OR/353 (SAN LUIS OBISPO COUNTY). NON-PLOTTABLE.

ITEM 10: PUBLIC FLOOD CONTROL EASEMENT PER 119/OR/1180. BLANKET.

ITEM 14: INGRESS AND EGRESS EASEMENT PER INST. NO. 74-009505 OF OFFICIAL RECORDS. NON-PLOTTABLE.

FOR APN'S:

090-341-033
090-341-062
090-341-023

THE FOLLOWING EASEMENTS ARE LISTED PER ITEM NUMBER AS CONTAINED IN FIRST AMERICAN TITLE COMPANY REPORT NO. 4001-2482582(NP) DATED AUGUST 11, 2006. THE EASEMENTS HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE NOT BASED ON ANY FIELD SURVEY WORK.

ITEM 6: PIPE LINE EASEMENT PER 70/DEEDS/365. NOT WITHIN PROJECT (MAPPED) AREA.

ITEM 7: PIPE LINE EASEMENT PER 15/OR/240. NOT WITHIN PROJECT (MAPPED) AREA.

ITEM 8: JETTY EASEMENT PER 259/OR/396. BLANKET.

ITEM 9: POLE LINE EASEMENT PER 292/OR/386. NON-PLOTTABLE.

ITEM 10: POLE LINE, PIPELINE EASEMENT PER 294/OR/268. NOT WITHIN PROJECT (MAPPED) AREA.

ITEM 11: PIPE LINE EASEMENT PER 308/OR/479. BLANKET.

ITEM 12: FLOWAGE EASEMENT PER 1282/OR/380. BLANKET.

ITEM 13: UNRECORDED LEASE AS DISCLOSED IN 2312/OR/396. NOT WITHIN PROJECT (MAPPED) AREA.

ITEM 14: ELECTRICAL FACILITIES EASEMENT PER 2765/OR/553. NOT WITHIN PROJECT (MAPPED) AREA.

ITEM 15: COMMUNICATION FACILITIES EASEMENT PER INST. NO. 1990-81893 OF OFFICIAL RECORDS. NOT WITHIN PROJECT (MAPPED) AREA.

EASEMENT NOTES (CONTINUED)

FOR APN:
090-341-019

THE FOLLOWING EASEMENTS ARE LISTED PER ITEM NUMBER AS CONTAINED IN FIRST AMERICAN TITLE COMPANY REPORT NO. 4001-2492337 (NP) DATED AUGUST 7, 2006. THE EASEMENTS HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE NOT BASED ON ANY FIELD SURVEY WORK.

ITEM 3: RIGHT OF WAY FOR DITCHES AND CANALS PER 1043/OR/561. NON-PLOTTABLE.

ITEM 4: POLE LINE EASEMENT PER 275/OR/172. NOT WITHIN PROJECT (MAPPED) AREA.

ITEM 5: RIGHTS OF WAY FOR DITCHES PER 284/OR/353. NON-PLOTTABLE.

ITEM 6: PIPE LINE EASEMENT PER 310/OR/372. BLANKET.

ITEM 7: PUBLIC FLOOD CONTROL EASEMENT PER 1248/OR/293. A PORTION OF WHICH IS PLOTTED HEREON.

FOR APN'S:
090-291-039
090-291-040
090-291-041
090-291-042

THE FOLLOWING EASEMENTS ARE LISTED PER ITEM NUMBER AS CONTAINED IN FIRST AMERICAN TITLE COMPANY REPORT NO. 4001-2491945 (NP) DATED AUGUST 7, 2006. THE EASEMENTS HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE NOT BASED ON ANY FIELD SURVEY WORK.

ITEM 3: PIPE LINE EASEMENT PER 308/OR/480. A PORTION OF WHICH IS PLOTTED HEREON.

ITEM 4: ELECTRICAL FACILITIES EASEMENT PER 1814/OR/498. A PORTION OF WHICH IS PLOTTED HEREON.

ITEM 5: OFFERS OF DEDICATION, EASEMENTS SHOWN ON 18/MB/78. PORTIONS OF WHICH ARE PLOTTED HEREON.

SURVEY NOTES

1. THE HORIZONTAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN DATUM OF 1983, CORS 1986 ADJUSTMENT [NAD83(CORS96)], EPOCH DATE OF 2002.0000.

2. THE PROJECTION USED IS THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 5 PROJECTION.

3. THIS SURVEY TIED TO 3 NATIONAL GEODETIC SURVEY (NGS) CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS). THOSE STATIONS ARE THE NGS POINTS DESIGNATED "P532", HAVING A PUBLISHED POSITION OF: NORTHING 2,424,604.26', EASTING 5,888,000.80'; AND "BKR1", HAVING A PUBLISHED POSITION OF: NORTHING 2,236,322.04', EASTING 6,229,942.23' AND "VNDP" HAVING A PUBLISHED POSITION OF: NORTHING 2,035,085.13', EASTING 6,773,880.56'. THE RESULTING BEARING FROM "P532" TO "BKR1" BEING: S 61°06'42" E. THE BEARINGS SHOWN HEREON ARE REFERENCED TO CCS83, ZONE 5 GRID NORTH.

4. ALL MEASUREMENTS LISTED, SHOWN AND REPRESENTED HEREON ARE BASED ON GRID DISTANCES OF THE CALIFORNIA COORDINATE SYSTEM OF 1983 ZONE 5 PROJECTION. THE COMBINED SCALE FACTOR FOR THE PROJECT IS 1.00025844. THIS SCALE FACTOR WAS CALCULATED USING AN ELEVATION OF 298.20 FEET FOR PT. NO. 2. DIVIDE THE DISTANCES HEREON BY THE COMBINED SCALE FACTOR TO OBTAIN GROUND DISTANCES. ALL DISTANCES SHOWN ARE U.S. SURVEY FEET

5. THE CONVERGENCE ANGLE IS: -1°23'49" AT PT. NO. 2.

6. THE ORTHOMETRIC HEIGHTS (ELEVATIONS) ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88). THIS SURVEY TIED TO THE POINT DESIGNATED AS PT. NO. 1135 ON THE RECORD OF SURVEY FOUND IN BOOK 147 ON PAGES 57-61 IN THE OFFICE OF THE RECORDER OF SANTA BARBARA COUNTY CALIFORNIA, HAVING A PUBLISHED ELEVATION OF 192.50'.

7. THE CONTOUR INTERVAL IS 1 FOOT.

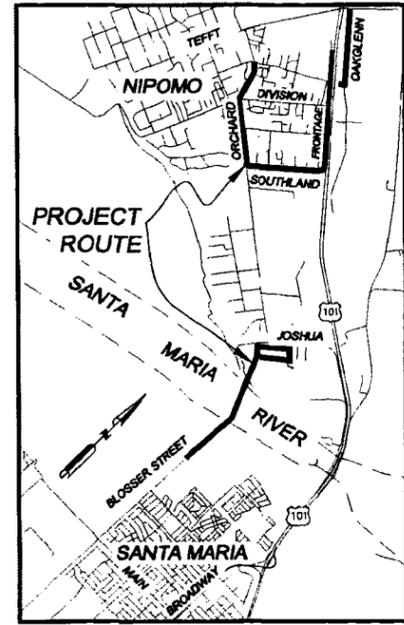
8. ORTHOPHOTOGRAPHY AND AERIAL MAPPING PRODUCED BY:
GOLDEN STATE AERIALS, INC.
3185 MC MILLAN RD. SUITE E
SAN LUIS OBISPO, CA 93401
PHONE: (805) 549-0399

PHOTOGRAPHY DATED: 9/3/2008 AND 10/9/2008

9. UNDERGROUND UTILITY LOCATIONS ARE PLOTTED BASED ON ABOVE GROUND PAINT MARKS BY OTHERS. ABOVE GROUND SURFACE STRUCTURES. ACTUAL LOCATION MAY DIFFER. ADDITIONAL UNDERGROUND UTILITY LINES MAY EXIST. FOR INFORMATION REGARDING UTILITY LOCATION, SIZE, DEPTH, CONDITION, AND CAPACITY CONTACT UTILITY OR MUNICIPAL/PUBLIC SERVICE FACILITY.

10. UNDERGROUND PIPE SIZES ARE BASED ON VISUAL OBSERVATIONS MADE FROM THE SURFACE AND ARE APPROXIMATE.

11. THIS PROJECT WAS SURVEYED AT A HORIZONTAL SCALE OF 1 INCH = 40 FEET. IT IS PLOTTED AT A SCALE OF 1 INCH = 20 FEET FOR CLARITY. NO CLAIM IS MADE THAT THIS MAPPING MEETS ANY ACCURACY STANDARDS FOR 20 SCALE MAPPING.



VICINITY MAP
SCALE: 1 INCH = 4000 FEET

PROJECT NO.	0532-0024
SURVEYED BY:	EMR 10-12-2008
DRAFTED BY:	EMR 1/2009
CHECKED BY:	JTM 1/2009

SHEET
G-004
OF 80 SHEETS

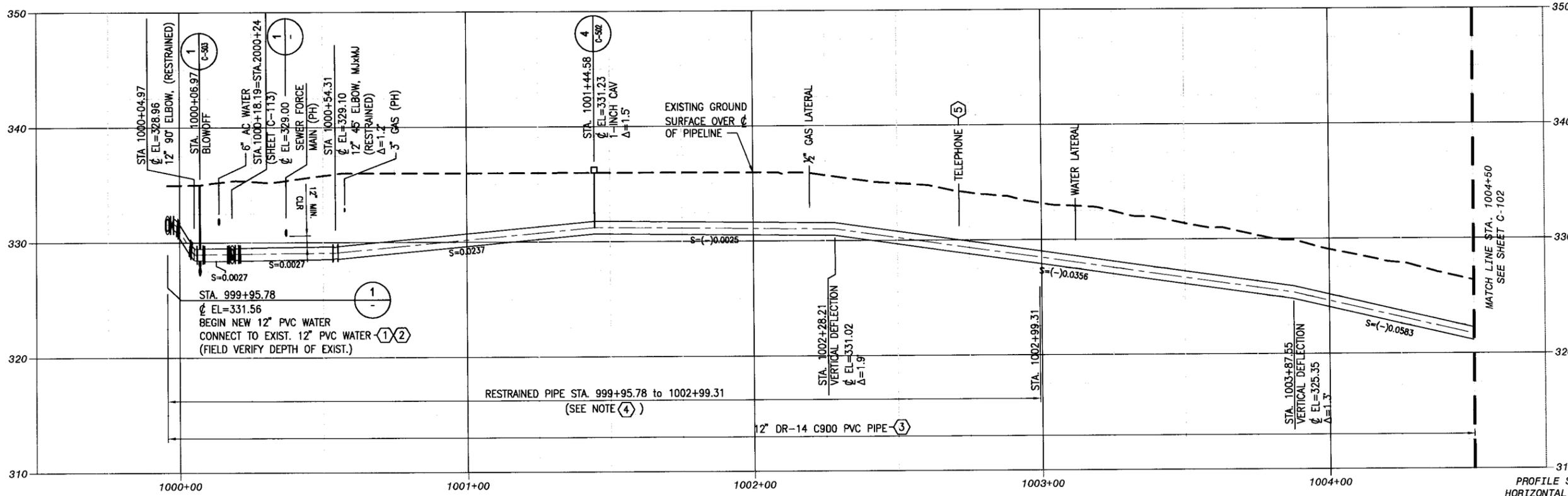
TOPOGRAPHIC SURVEY
 OF
 NIPOMO CSD WATERLINE INTERTIE PROJECT
 LOCATED IN THE
 COMMUNITY OF NIPOMO, CALIFORNIA & THE
 CITY OF SANTA MARIA, CALIFORNIA

WALLACE GROUP

CIVIL ENGINEERING
CONSTRUCTION MANAGEMENT
LANDSCAPE ARCHITECTURE
MECHANICAL ENGINEERING
PLANNING
PUBLIC WORKS ADMINISTRATION
SURVEYING / GIS SOLUTIONS
WATER RESOURCES
WALLACE SWANSON INTERNATIONAL

612 CLARION COURT
SAN LUIS OBISPO, CA 93401
T 805 544-4211 F 805 544-4294
www.wallacegroup.com

DWG: W:\Nipomo_CSD (19998)\19998.70 Waterline Interline Project\Drawings\Plan\NIPOMO_PIPELINE_Draft Final\PlanSet\C-101 to C-112.dwg Layout Name: C-101 - Plotted By: Foislicher, Jim Date: 5/2/2010 - 6:43 AM
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 IACMS: NCSO_TRANSPARENT_graphics_emailing -

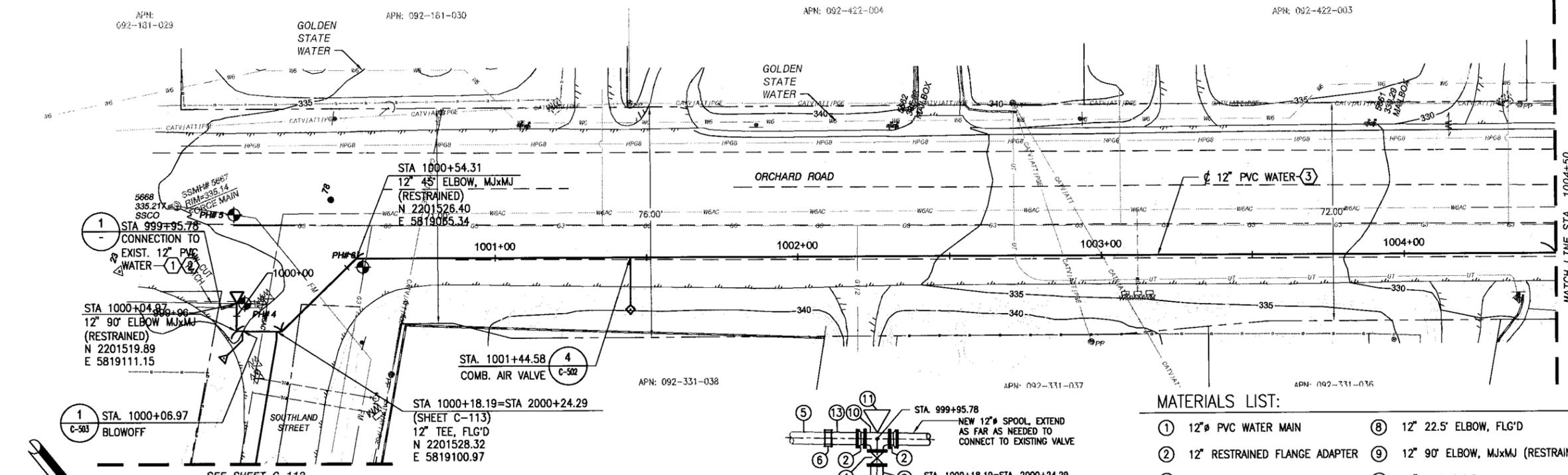


PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'

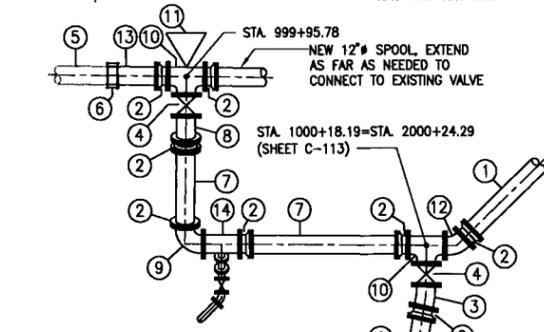
CONSTRUCTION NOTES:

- 1 NOTIFY NCSO STAFF PRIOR TO INTERRUPTION OF SERVICE. INTERRUPTION OF SERVICE SHALL BE COORDINATED WITH NCSO AND DURATION SHALL BE MINIMIZED.
- 2 CONTRACTOR TO POTHOLE POC @ STA. 999+95.78 PRIOR TO BEGINNING CONSTRUCTION. PROVIDE OWNER'S REPRESENTATIVE WITH POTHOLE REPORT.
- 3 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
- 4 INSTALL RESTRAINED JOINT PIPE AND FITTINGS PER SPECIFICATION SECTION 402040. RESTRAIN 12" P.V.C. PIPE 245- FEET IN EACH DIRECTION, FROM FITTINGS AT STA. 999+95.78 AND STA. 1000+54.31.
- 5 POTHOLE UTILITY CROSSING PER SPECIFICATION SECTION 023219. SUBMIT WRITTEN POTHOLE REPORT TO OWNER'S REPRESENTATIVE AND NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS ARE DISCOVERED.

APPR DATE 09/30/2009
 PROJ. NO. C05400
 PROJECT ENGINEER JOSHUA H. REYNOLDS
 REGISTERED PROFESSIONAL ENGINEER No. 95400 Exp. 9/30/11
 STATE OF CALIFORNIA
 AECOM
 AECOM USA, INC. 1415 J St., Suite 204, San Diego, CA 92101
 T 602.542.9940 F 602.542.9980 www.aecom.com



UTILITY POTHOLE DATA			
LABEL	SURFACE ELEV. (FT)	DEPTH TO TOP OF PIPE (FT)	PIPE SIZE, MATERIAL AND NOTES
PH#4	334.81	2.83	12" DIAMETER P.V.C. WATER
PH#5	335.42	4.20	6" DIAMETER SEWER FORCE MAIN
PH#6	335.63	3.00	3" DIAMETER PLASTIC NATURAL GAS



STA 999+95.78 - CONNECTION TO EXISTING
 NOT TO SCALE

- MATERIALS LIST:**
- | | |
|---------------------------------------|---|
| 1 12" PVC WATER MAIN | 8 12" 22.5' ELBOW, FLG'D |
| 2 12" RESTRAINED FLANGE ADAPTER | 9 12" 90' ELBOW, MjxMj (RESTRAINED) |
| 3 12" 11.25' ELBOW FLG'D | 10 12" TEE, FLG'D |
| 4 12" GATE VALVE, FLG'D | 11 THRUST BLOCK PER DETAIL |
| 5 EXISTING 12" PVC WATER MAIN | 12 12" 45' ELBOW, FLG'D |
| 6 12" TRANSITION COUPLING (ROMAC 501) | 13 12" SPOOL, FLGXPE |
| 7 12" D.I.P. SPOOL, PEXPE | 14 12"x12"x4" TEE FOR BLOWOFF ASSEMBLY PER DETAIL |

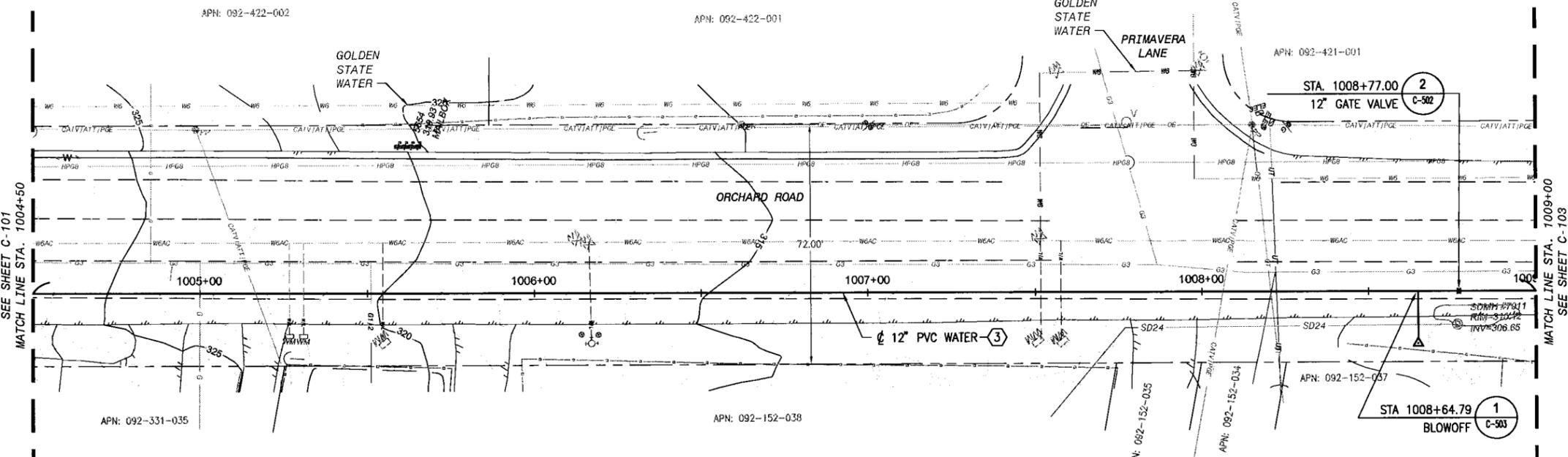
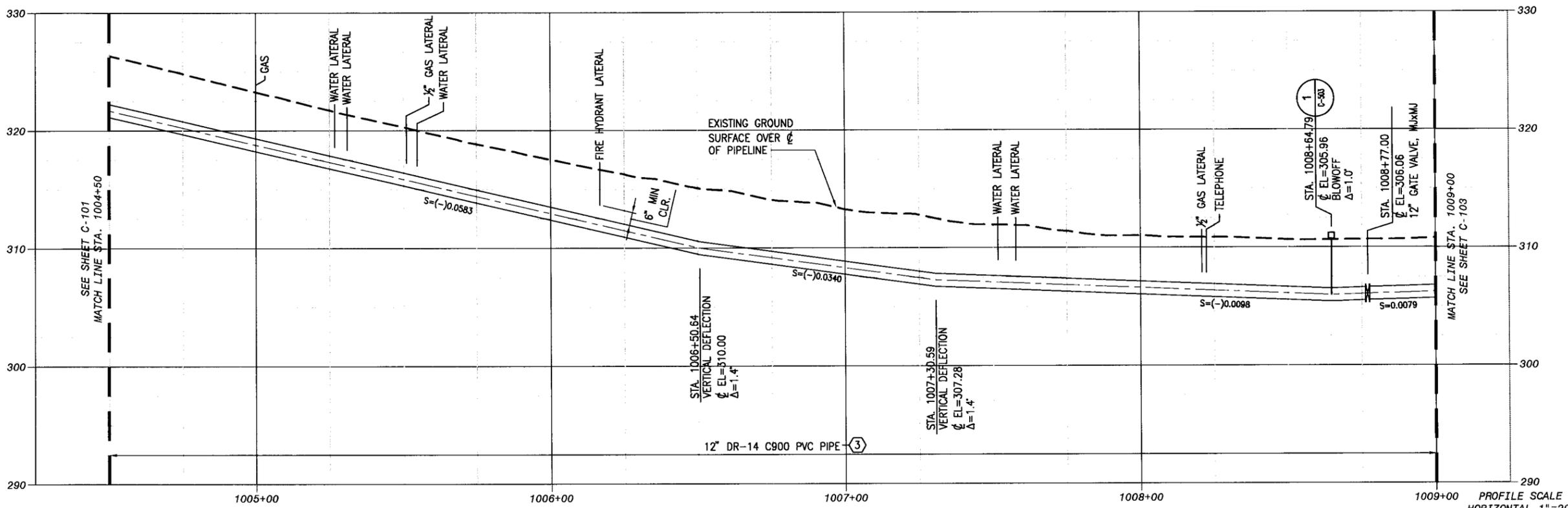
FOR PRELIMINARY USE ONLY
 NOT TO BE USED FOR CONSTRUCTION
 DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

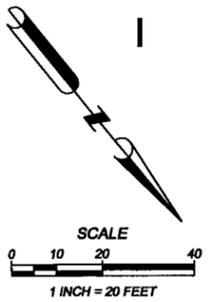
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2
 ORCHARD ROAD PLAN AND PROFILE STA 1000+00 to 1004+50
 DESIGNED: JHR
 DETAILED: JPF
 CHECKED:
 APPROVED:
 DATE: APRIL 2010
 AECOM PROJECT NO. 60081295
 NCSO PROJECT NO.
 CADD STDS. BOYLE/AECOM
C-101
 SHEET 5 OF 80

DMC: W:\Nipomo_CSD (1999)\1999\Waterline Interline Project Design\Drawings\DWG\Plan\Plan_C-101 to C-112.dwg Layout Name: C-102 - Plotted By: Fraucher, Jim Date: 5/3/2010 - 6:44 AM
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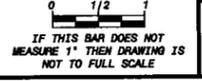


PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'

CONSTRUCTION NOTES:
 (3) 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.

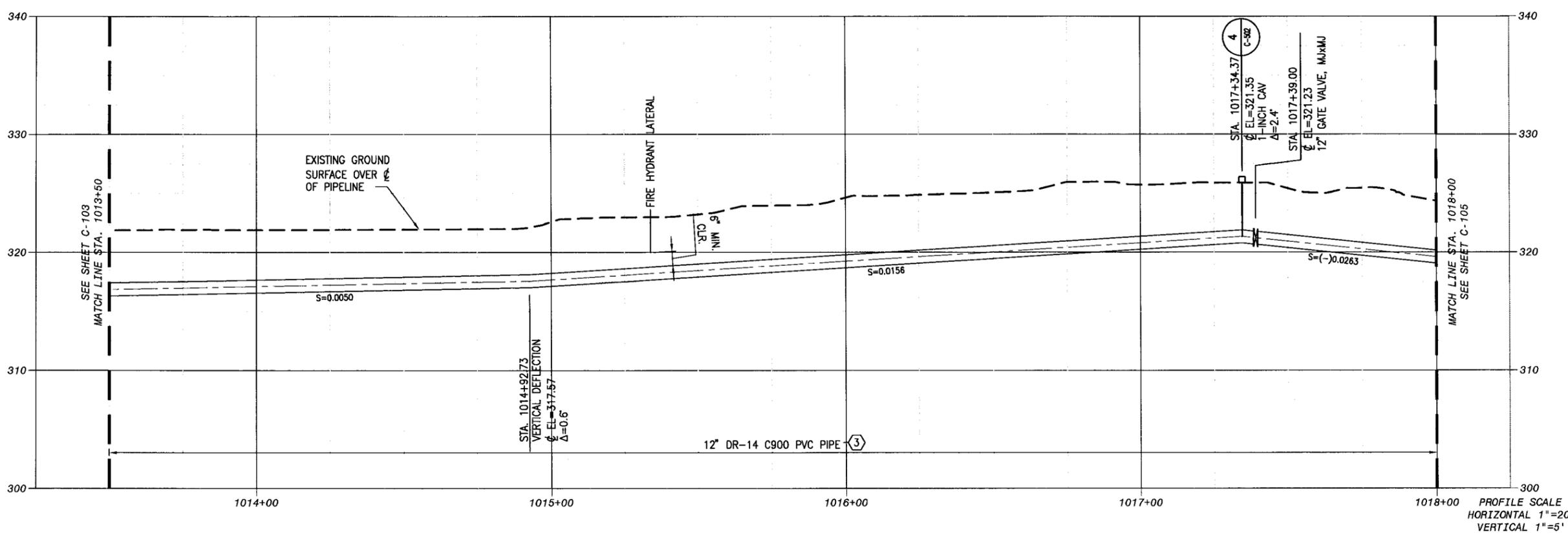


AECOM WATER
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****DRAFT FINAL PRELIMINARY DESIGN PLANSET****

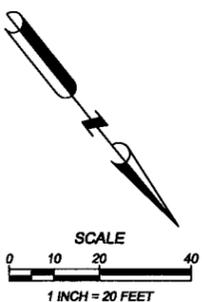
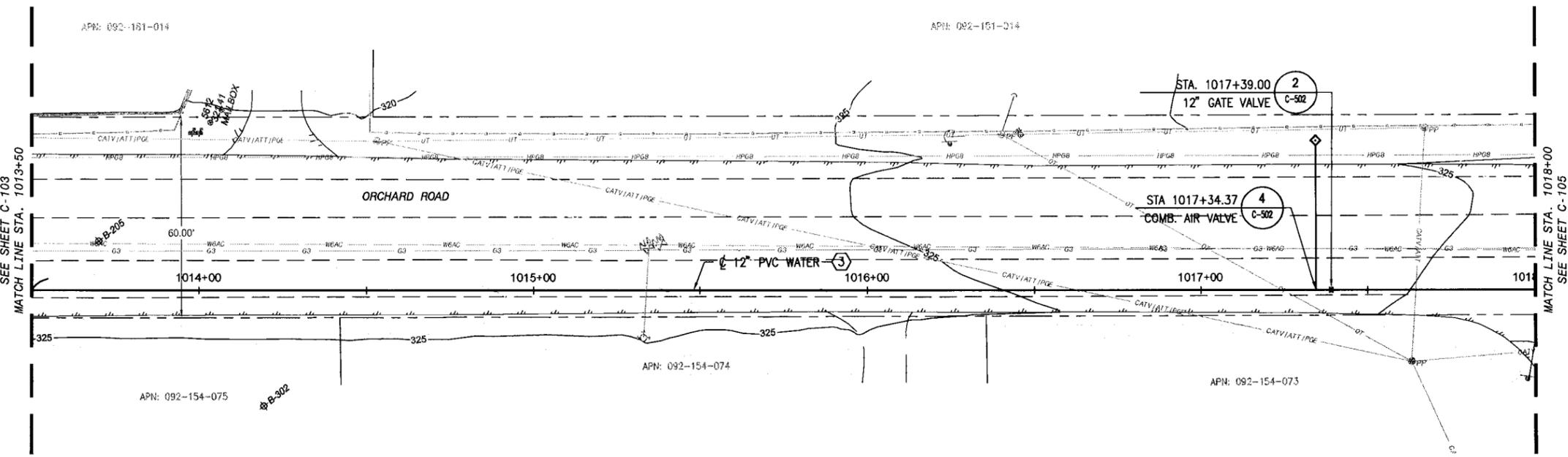


AECOM <small> AECOM USA, Inc. 1154 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.8940 F 805.542.8990 www.aecom.com </small>																							
NIPOMO																							
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2																							
ORCHARD ROAD PLAN AND PROFILE STA 1004+50 to 1009+00																							
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C-102																							
SHEET																							
6 OF 80																							

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PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



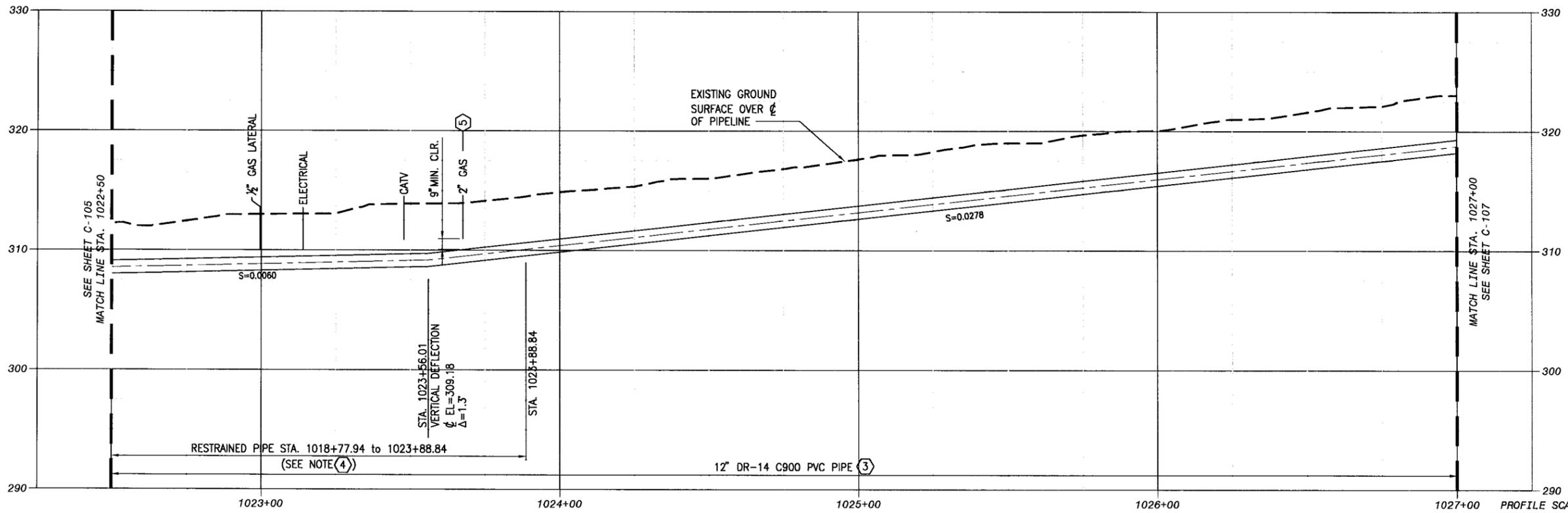
CONSTRUCTION NOTES:
 ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.

AECOM WATER
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 DATE: APRIL 30, 2010
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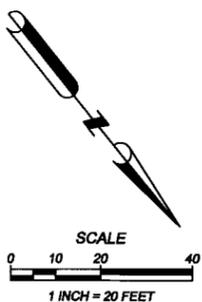
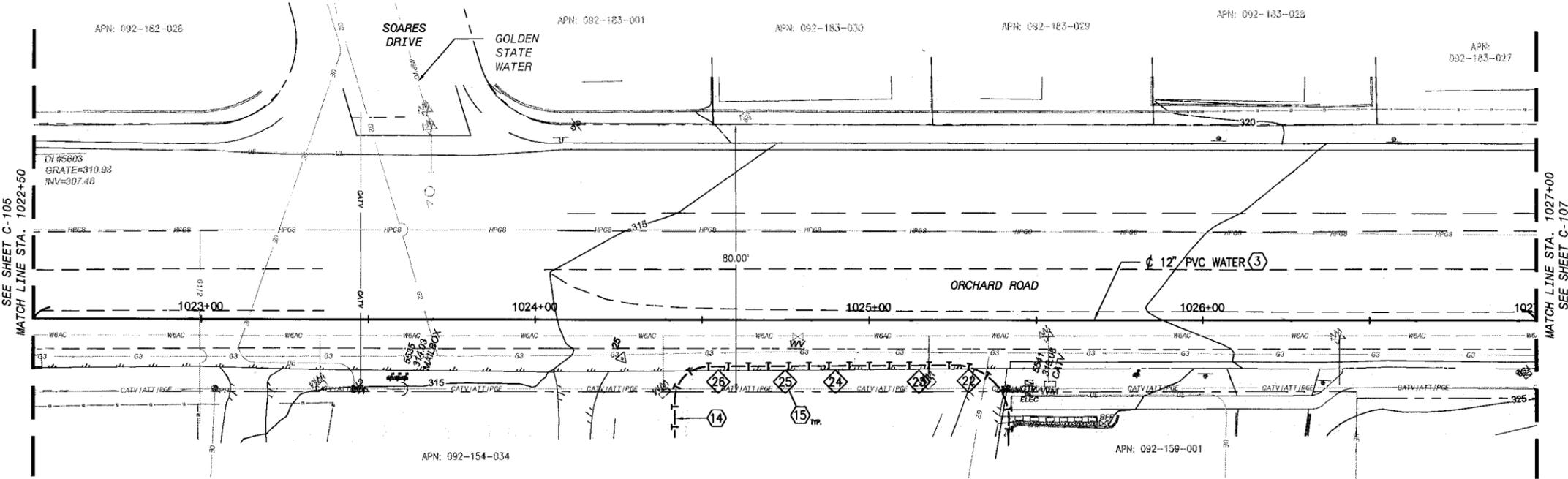
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APPR	EXP. DATE										
DATE	09/30/2009										
PROJECT ENGINEER	JOSHUA H. REYNOLDS										
DESCRIPTION	CB5400										
	<p> AECOM 1154 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.9940 F 805.542.9990 www.aecom.com </p>										
	<p style="text-align: center;"> NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERIE PROJECT - BP2 ORCHARD ROAD PLAN AND PROFILE STA 1013+50 to STA. 1018+00 </p>										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: JHR</td> </tr> <tr> <td>DETAILED: JPF</td> </tr> <tr> <td>CHECKED:</td> </tr> <tr> <td>APPROVED:</td> </tr> <tr> <td>DATE: APRIL 2010</td> </tr> <tr> <td>AECOM PROJECT NO. 60061295</td> </tr> <tr> <td>NCSD PROJECT NO.</td> </tr> <tr> <td>CADD STDS. BOYLE/AECOM</td> </tr> <tr> <td style="text-align: center;">C-104</td> </tr> <tr> <td style="text-align: center;">SHEET 8 OF 80</td> </tr> </table>		DESIGNED: JHR	DETAILED: JPF	CHECKED:	APPROVED:	DATE: APRIL 2010	AECOM PROJECT NO. 60061295	NCSD PROJECT NO.	CADD STDS. BOYLE/AECOM	C-104	SHEET 8 OF 80
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DETAILED: JPF											
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DATE: APRIL 2010											
AECOM PROJECT NO. 60061295											
NCSD PROJECT NO.											
CADD STDS. BOYLE/AECOM											
C-104											
SHEET 8 OF 80											

DWG: W:\Nipomo_CSD (19998)\19998.70 Waterline Interline Project Design\Drawings\Plan\AECOM\NIPOMO\NIPOMO_PIPES\BP2 - NIPOMO PIPELINE - Draft Final Planset\C-106 to C-112.dwg Layout Name: C-106 - Plotted by: Franlicher, Jim Date: 3/3/2010 - 6:47 AM
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 IMAGES: MCSJ CSJ00-Transparent_CrossSection_anno.dwg



PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



- CONSTRUCTION NOTES:**
- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
 - ④ INSTALL RESTRAINED JOINT PIPE AND FITTINGS PER SPECIFICATION SECTION 402040. RESTRAIN 12" P.V.C. PIPE 245- FEET IN EACH DIRECTION, FROM FITTING AT STA. 1032+37.35.
 - ⑤ POT HOLE UTILITY CROSSING PER SPECIFICATION SECTION 023219. SUBMIT WRITTEN POT HOLE REPORT TO OWNER'S REPRESENTATIVE AND NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS ARE DISCOVERED.
 - ⑭ TREE PROTECTION/EXCLUSIONARY FENCING. PLACE AT DRIP LINE OF TREE AND AS INDICATED IN TREE PROTECTION PLAN. FENCE SHALL BE A MINIMUM OF 4-FT TALL CHAIN LINK FENCE, SNOW FENCE OR SAFETY FENCE. ERECT FENCE PRIOR TO CONSTRUCTION.
 - ⑮ TREE NUMBER PER TREE PROTECTION PLAN. FOLLOW MITIGATION MEASURES AS INDICATED IN TREE PROTECTION PLAN.

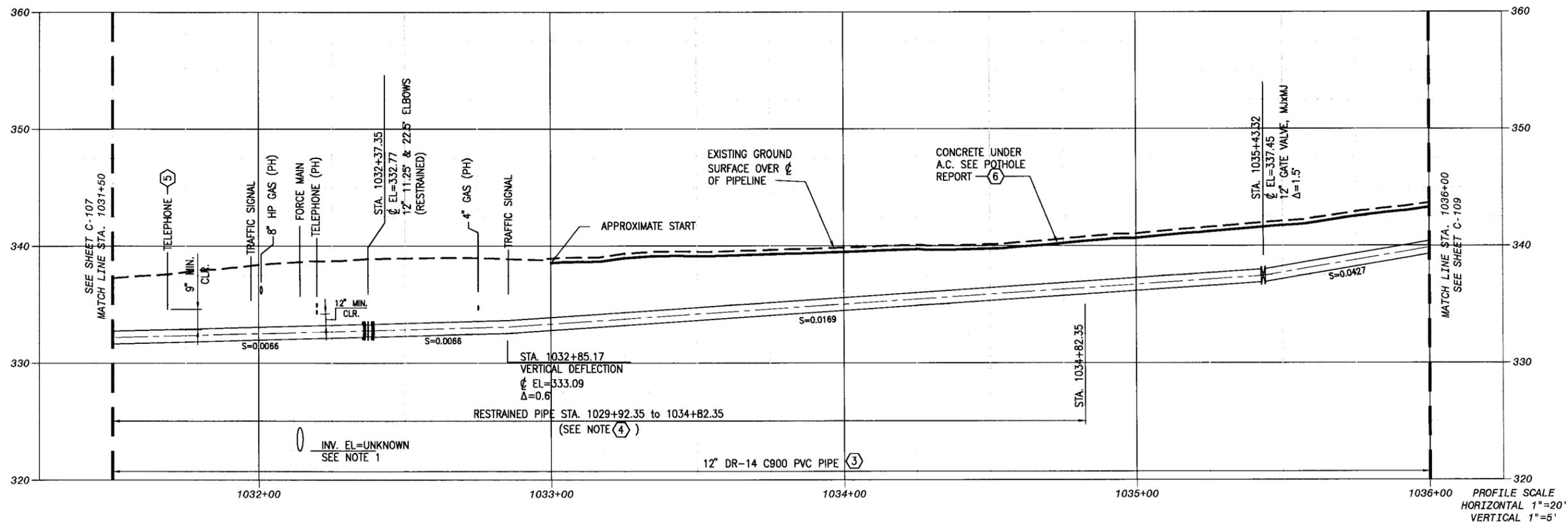
AECOM WATER
FOR PRELIMINARY USE ONLY
 NOT TO BE USED FOR CONSTRUCTION

DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET

0 1/2 1
 IF THIS BAR DOES NOT
 MEASURE 1" THEN DRAWING IS
 NOT TO FULL SCALE

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			C65400	06/30/2009							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;"> AECOM USA, INC. 1880 Century Blvd., Suite 200 San Jose, CA 95128 T 408.542.9840 F 408.542.9890 www.aecom.com </td> </tr> </table>	AECOM USA, INC. 1880 Century Blvd., Suite 200 San Jose, CA 95128 T 408.542.9840 F 408.542.9890 www.aecom.com									
AECOM USA, INC. 1880 Century Blvd., Suite 200 San Jose, CA 95128 T 408.542.9840 F 408.542.9890 www.aecom.com											
	<p style="text-align: center;"> NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2 ORCHARD ROAD PLAN AND PROFILE STA 1022+50 TO STA. 1027+00 </p>										
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DETAILED: JPF											
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APPROVED:											
DATE: APRIL 2010											
AECOM PROJECT NO. 60061295											
MCSJ PROJECT NO.											
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CADD STDS. BOYLE/AECOM											
C-106 SHEET 10 OF 80											

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CONSTRUCTION NOTES:

- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
- ④ INSTALL RESTRAINED JOINT PIPE AND FITTINGS PER SPECIFICATION SECTION 402040. RESTRAIN 12" P.V.C. PIPE 245- FEET IN EACH DIRECTION, FROM FITTING AT STA. 1032+37.35.
- ⑤ POTHOLE UTILITY CROSSING PER SPECIFICATION SECTION 023219. SUBMIT WRITTEN POTHOLE REPORT TO OWNER'S REPRESENTATIVE AND NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS ARE DISCOVERED.
- ⑥ NOTE CONCRETE UNDER A.C. REMOVE AND DISPOSE PER SPECIFICATION SECTION 312316 AND DETAIL. SEE SPECIFICATION SECTION 321216 FOR THICKNESS.
- ⓧ CONTINUE TYPICAL TRENCH REPAIR AND SURFACE RESTORATION PER DETAIL.
- Ⓨ SEAM TO BE PERPENDICULAR TO TRAVELED WAY (TYP.)
- Ⓩ APPROXIMATE EXTENTS OF PAVEMENT REPAIR. COORDINATE WITH SLOCO ENCROACHMENT PERMIT.

GENERAL NOTES:

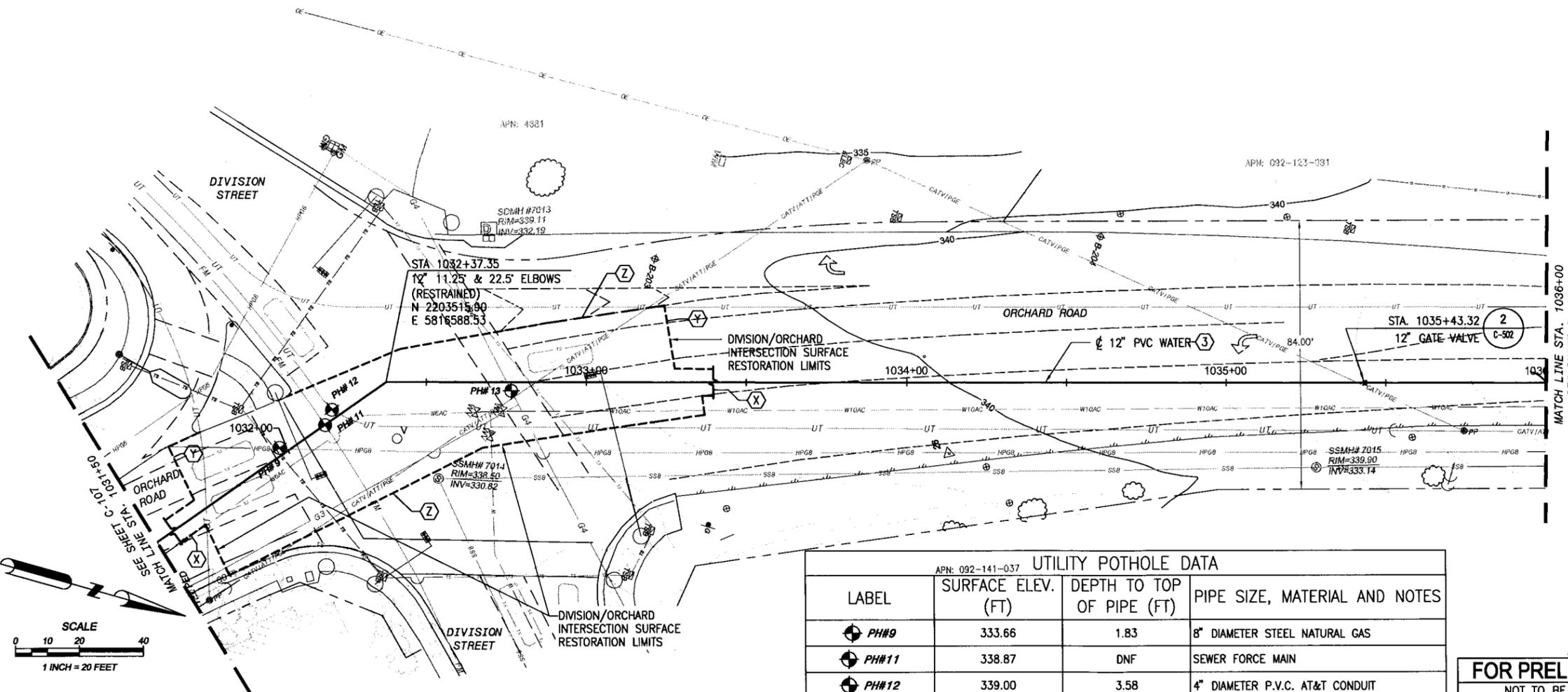
1. CONTACT JOE PHILLIPS AT (805) 710-2021 WITH THE COUNTY OF SAN LUIS OBISPO PRIOR TO WORK IN THE VICINITY OF SEWER FORCE MAIN.

UTILITY POTHOLE DATA			
APN: 092-141-037			
LABEL	SURFACE ELEV. (FT)	DEPTH TO TOP OF PIPE (FT)	PIPE SIZE, MATERIAL AND NOTES
PH#9	333.66	1.83	8" DIAMETER STEEL NATURAL GAS
PH#11	338.87	DNF	SEWER FORCE MAIN
PH#12	339.00	3.58	4" DIAMETER P.V.C. AT&T CONDUIT
PH#13	339.49	4.08	4" DIAMETER PLASTIC NATURAL GAS

AECOM WATER
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DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET

0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE



PROJECT ENGINEER
 JOSHUA H. REYNOLDS
 No. 65400
 Exp. 9/30/11
 C.S.E.B.

APPR DATE
 08/30/2009

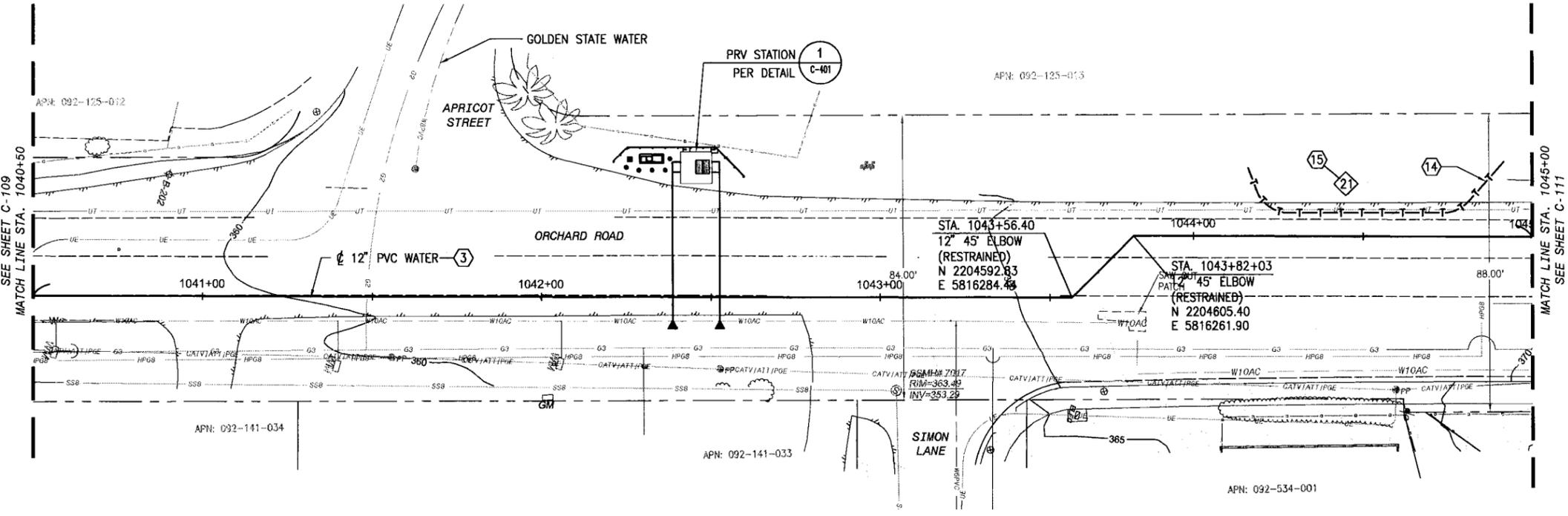
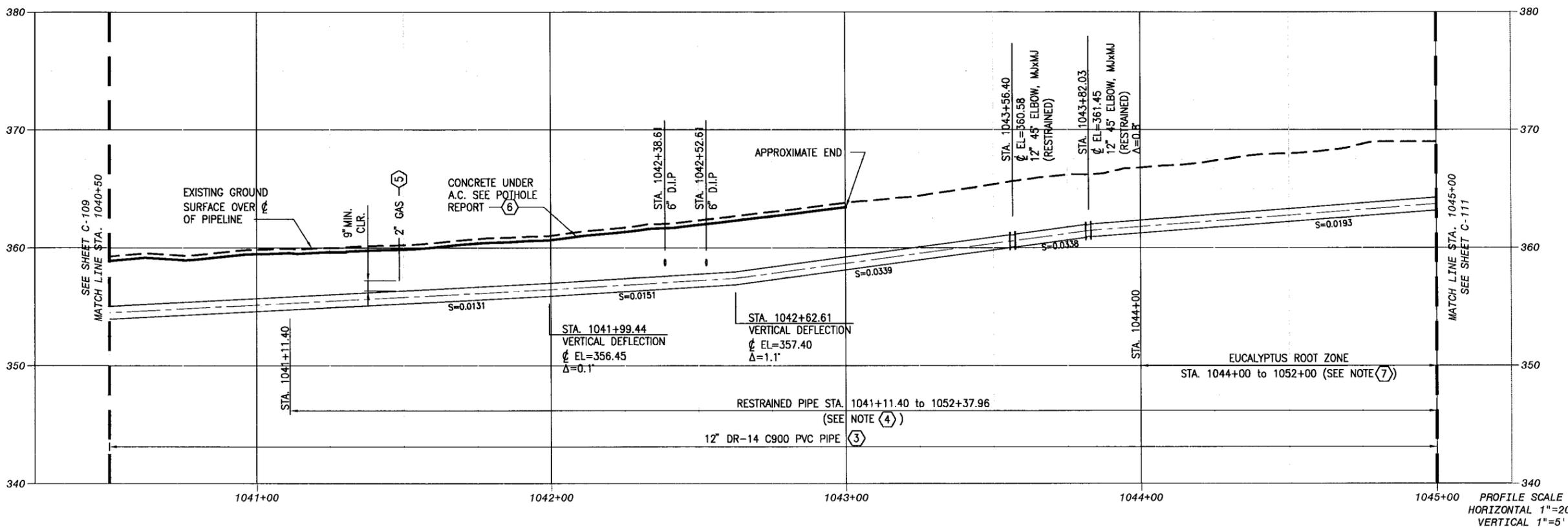
AECOM
 AECOM USA, Inc.
 1194 Pacific Street, Suite 204
 San Luis Obispo, California 93401
 T 805.542.9940 F 805.542.9980
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NIPOMO
 NIPOMO COMMUNITY SERVICES DISTRICT
 WATERLINE INTERSECTION PROJECT - BP2
 ORCHARD ROAD
 PLAN AND PROFILE
 STA 1031+50 TO STA. 1036+00

DESIGNED: JHR
 DETAILED: JPF
 CHECKED:
 APPROVED:
 DATE: APRIL 2010
 AECOM PROJECT NO.
 00061295
 NCSO PROJECT NO.

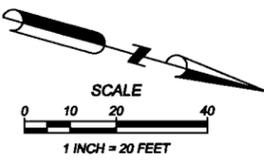
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 BOYLE/AECOM
C-108
 SHEET
 12 OF 80

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 DETAILED: JPF
 CHECKED: JPF
 APPROVED: JPF
 DATE: APRIL 30, 2010
 AECOM PROJECT NO. 60081295
 NCSO PROJECT NO.



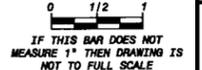
CONSTRUCTION NOTES:

- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
- ④ INSTALL RESTRAINED JOINT PIPE AND FITTINGS PER SPECIFICATION SECTION 402040. RESTRAIN 12" P.V.C. PIPE 245- FEET IN EACH DIRECTION, FROM FITTING AT 1043+56.40 AND STA. 1052+33.81.
- ⑤ POTHOLE UTILITY CROSSING PER SPECIFICATION SECTION 023219. SUBMIT WRITTEN POTHOLE REPORT TO OWNER'S REPRESENTATIVE AND NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS ARE DISCOVERED.
- ⑥ NOTE CONCRETE UNDER A.C. REMOVE AND DISPOSE PER SPECIFICATION SECTION 312316 AND DETAIL SEE POTHOLE REPORT FOR THICKNESSES.
- ⑦ SPECIAL PAY ZONE FOR PROTECTION OF EUCALYPTUS TREE ROOTS IN ACCORDANCE WITH TREE PROTECTION PLAN AND ARBORIST. SEE BID ITEM 5 OF SPECIFICATION SECTION 012000.
- ⑭ TREE PROTECTION/EXCLUSIONARY FENCING. PLACE AT DRIP LINE OF TREE AND AS INDICATED IN TREE PROTECTION PLAN. FENCE SHALL BE A MINIMUM OF 4-FT TALL CHAIN LINK FENCE, SNOW FENCE OR SAFETY FENCE. ERECT FENCE PRIOR TO CONSTRUCTION.
- ⑮ TREE NUMBER PER TREE PROTECTION PLAN. FOLLOW MITIGATION MEASURES AS INDICATED IN TREE PROTECTION PLAN.



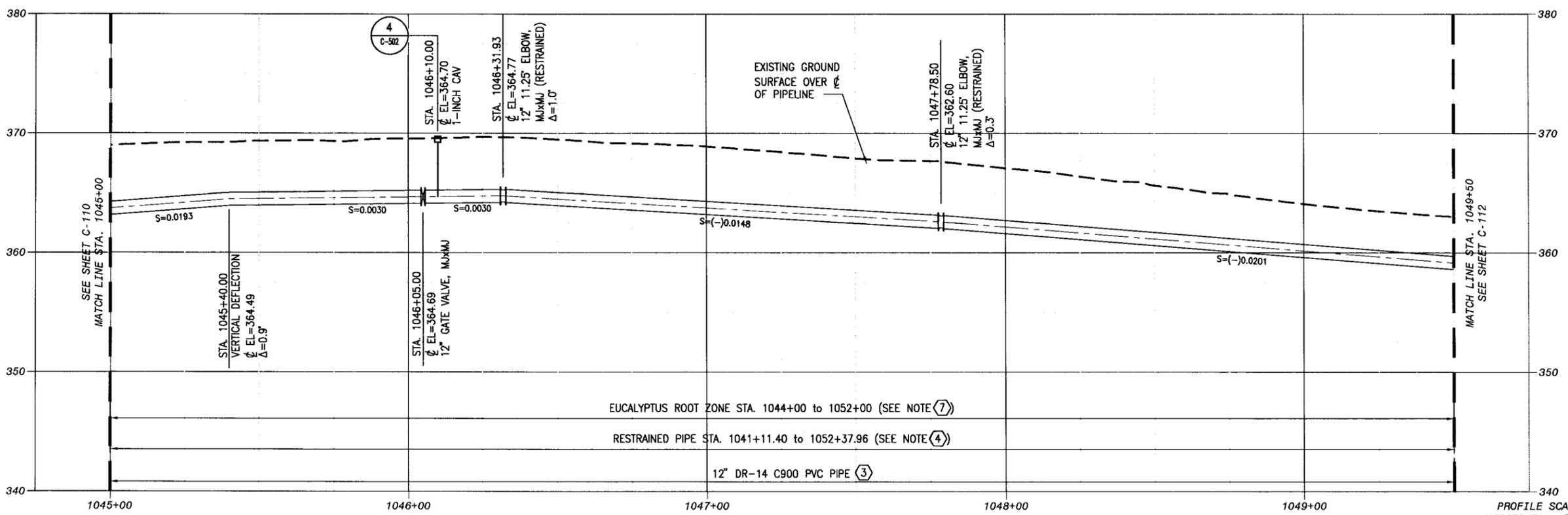
AECOM WATER
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DATE: APRIL 30, 2010
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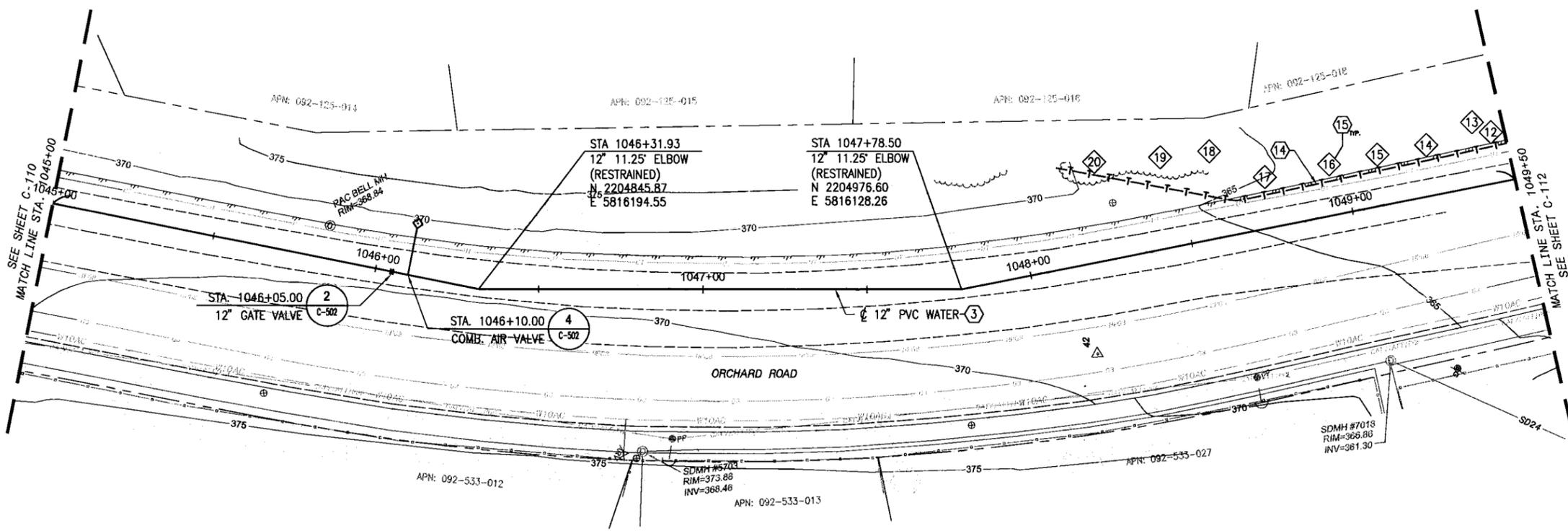


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<p>AECOM</p> <p>1150 Locust Ave., Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9890 www.aecom.com</p>	
<p>NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2</p> <p>ORCHARD ROAD PLAN AND PROFILE STA 1040+50 TO STA. 1045+00</p>	
<p>DESIGNED: JHR DETAILED: JPF CHECKED: JPF APPROVED: JPF DATE: APRIL 2010 AECOM PROJECT NO. 60081295 NCSO PROJECT NO.</p>	
<p>CADD STDS. BOYLE/AECOM</p> <p>C-110 SHEET OF 80</p>	

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PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



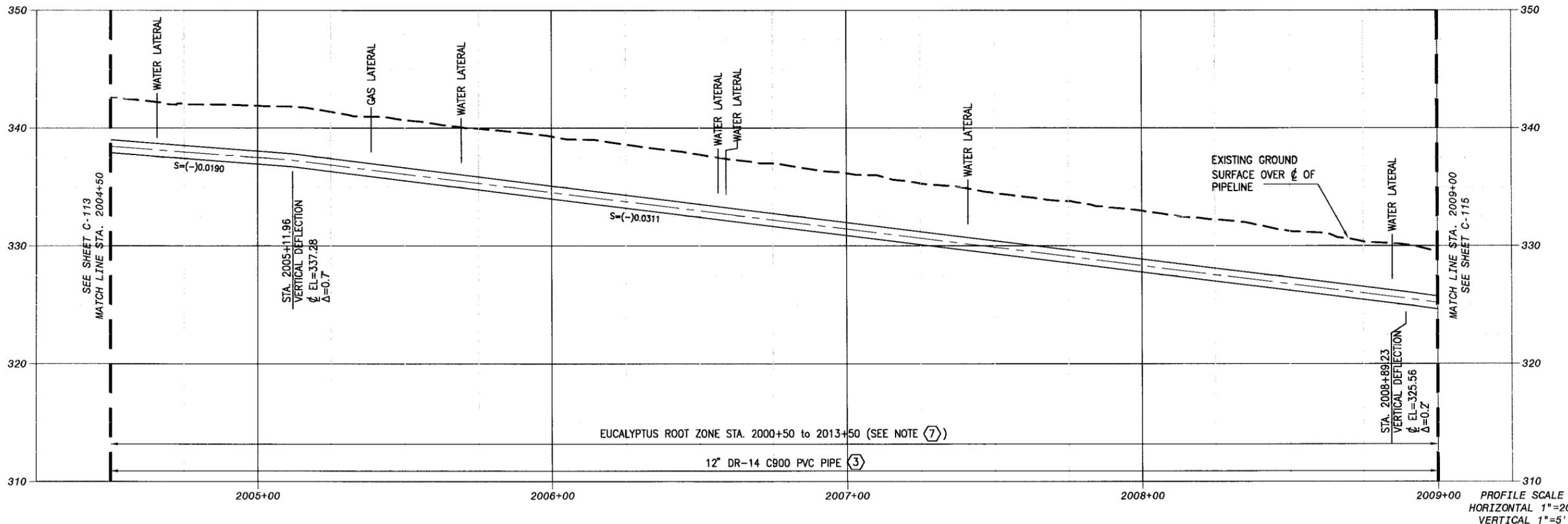
- CONSTRUCTION NOTES:**
- ① INSTALL RESTRAINED JOINT PIPE AND FITTINGS PER SPECIFICATION SECTION 402040.
 - ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
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AECOM WATER
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 DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET

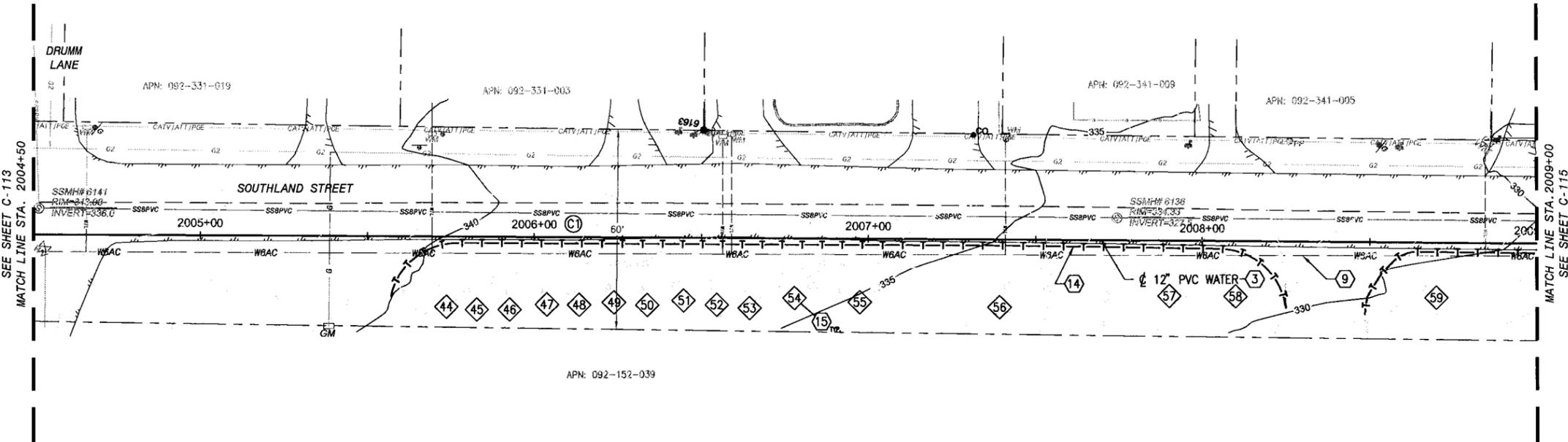
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 IF THIS BAR DOES NOT
 MEASURE 1" THEN DRAWING IS
 NOT TO FULL SCALE

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APPR	DATE														
DESIGNATION	REV NUMBER														
PROJECT ENGINEER	PROJECT NUMBER														
JOSHUA H. REYNOLDS	C66400														
DATE	REV														
9/30/11															
08/30/2009															
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERTIE PROJECT - BP2															
ORCHARD ROAD PLAN AND PROFILE STA 1045+00 to STA. 1049+50															
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DESIGNED: JHR	DATE: APRIL 2010														
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C-111 SHEET 15 OF 80															

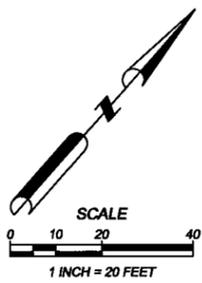
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PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



- CONSTRUCTION NOTES:**
- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
 - ⑦ SPECIAL PAY ZONE FOR PROTECTION OF EUCALYPTUS TREE ROOTS IN ACCORDANCE WITH TREE PROTECTION PLAN AND ARBORIST. SEE BID ITEM 5 OF SPECIFICATION SECTION 012000.
 - ⑨ PROTECT EXISTING 6" A.C. PIPE IN PLACE AND OPERATIONAL. POSITIVELY LOCATE PIPELINE IN ADVANCE OF CONSTRUCTION. SEE SPECIFICATION SECTION 020120.
 - ⑭ TREE PROTECTION/EXCLUSIONARY FENCING. PLACE AT DRIP LINE OF TREE AND AS INDICATED IN TREE PROTECTION PLAN. FENCE SHALL BE A MINIMUM OF 4-FT TALL CHAIN LINK FENCE, SNOW FENCE OR SAFETY FENCE. ERECT FENCE PRIOR TO CONSTRUCTION.
 - ⑮ TREE NUMBER PER TREE PROTECTION PLAN. FOLLOW MITIGATION MEASURES AS INDICATED IN TREE PROTECTION PLAN.



PIPELINE CURVE DATA				
CURVE	RADIUS	LENGTH	EXTERNAL TANGENT	DELTA
③	65074.85'	975.71'	487.86'	0.859°

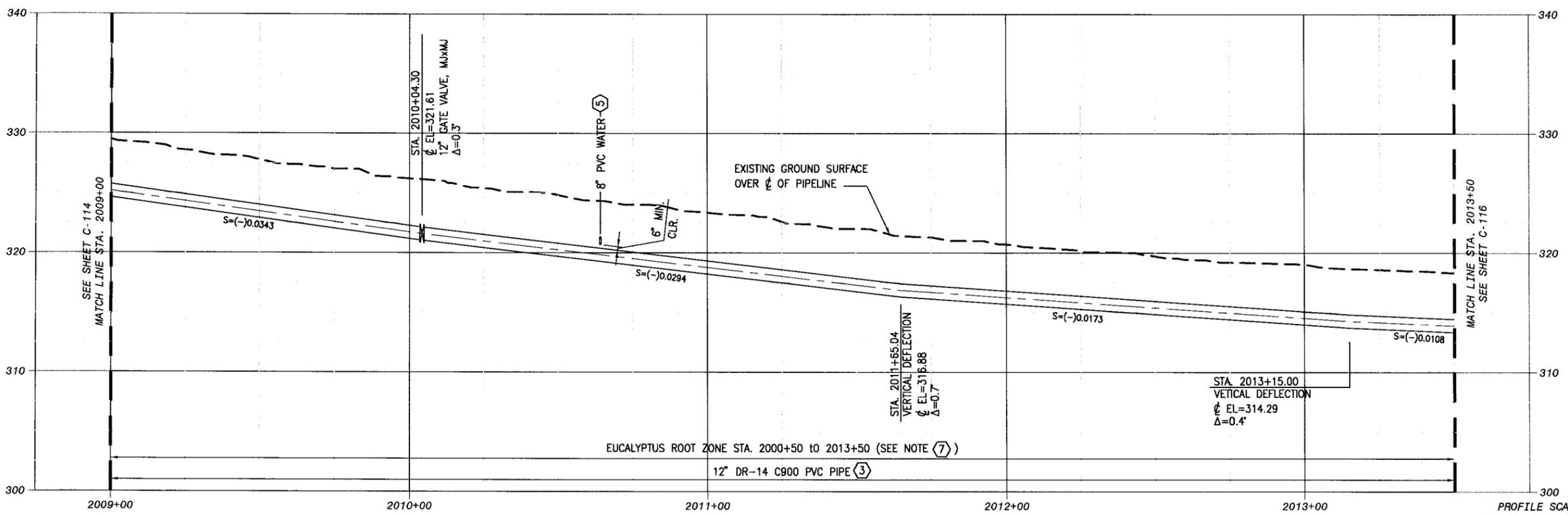
AECOM WATER
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DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET

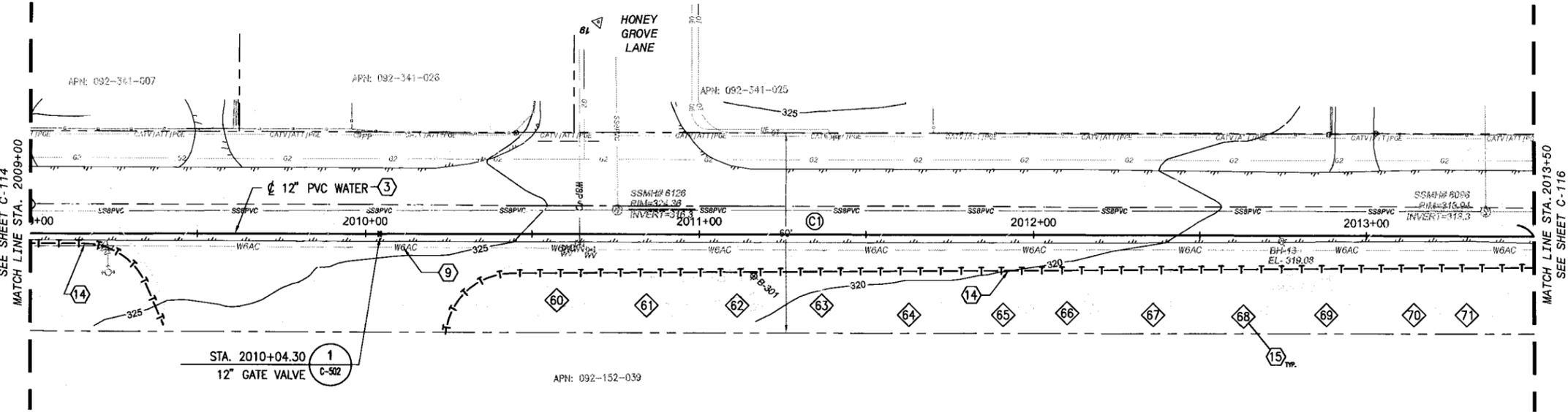
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	<p> PROJECT ENGINEER JOSHUA H. REYNOLDS No. 65400 Exp. 9/30/11 C.E.C. </p>
	<p> PROJECT NUMBER C65-400 </p>
	<p> PROJECT ENGINEER JOSHUA H. REYNOLDS No. 65400 Exp. 9/30/11 C.E.C. </p>
<p> NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2 SOUTHLAND STREET PLAN AND PROFILE STA 2004+50 to 2009+00 </p>	
<p> DESIGNED: JHR DETAILED: JPF CHECKED: APPROVED: DATE: APRIL 2010 AECOM PROJECT NO. 80061295 NCSB PROJECT NO. </p>	
<p> CADD STDS. BOYLE/AECOM </p>	
<p> C-114 SHEET 18 OF 80 </p>	

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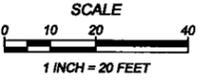
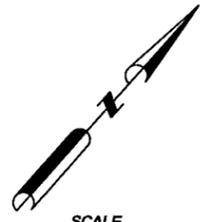


PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



CONSTRUCTION NOTES:

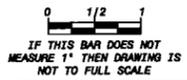
- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
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- ⑨ PROTECT EXISTING 6" A.C. PIPE IN PLACE AND OPERATIONAL. POSITIVELY LOCATE PIPELINE IN ADVANCE OF CONSTRUCTION. SEE SPECIFICATION SECTION 020120.
- ⑭ TREE PROTECTION/EXCLUSIONARY FENCING. PLACE AT DRIP LINE OF TREE AND AS INDICATED IN TREE PROTECTION PLAN. FENCE SHALL BE A MINIMUM OF 4-FT TALL CHAIN LINK FENCE, SNOW FENCE OR SAFETY FENCE. ERECT FENCE PRIOR TO CONSTRUCTION.
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PIPELINE CURVE DATA				
CURVE	RADIUS	LENGTH	EXTERNAL TANGENT	DELTA
C1	65074.85'	975.71'	487.86'	0.859°

AECOM WATER
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DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET



NO.	DATE	DESCRIPTION	BY	DATE
1	09/30/11	PROJECT ENGINEER	JOSHUA H. RETNOLDS	09/30/2009
2		REVISION		
3		REVISION		



AECOM
 AECOM USA, Inc.
 1154 Pulte Street, Suite 204
 San Luis Obispo, California 93401
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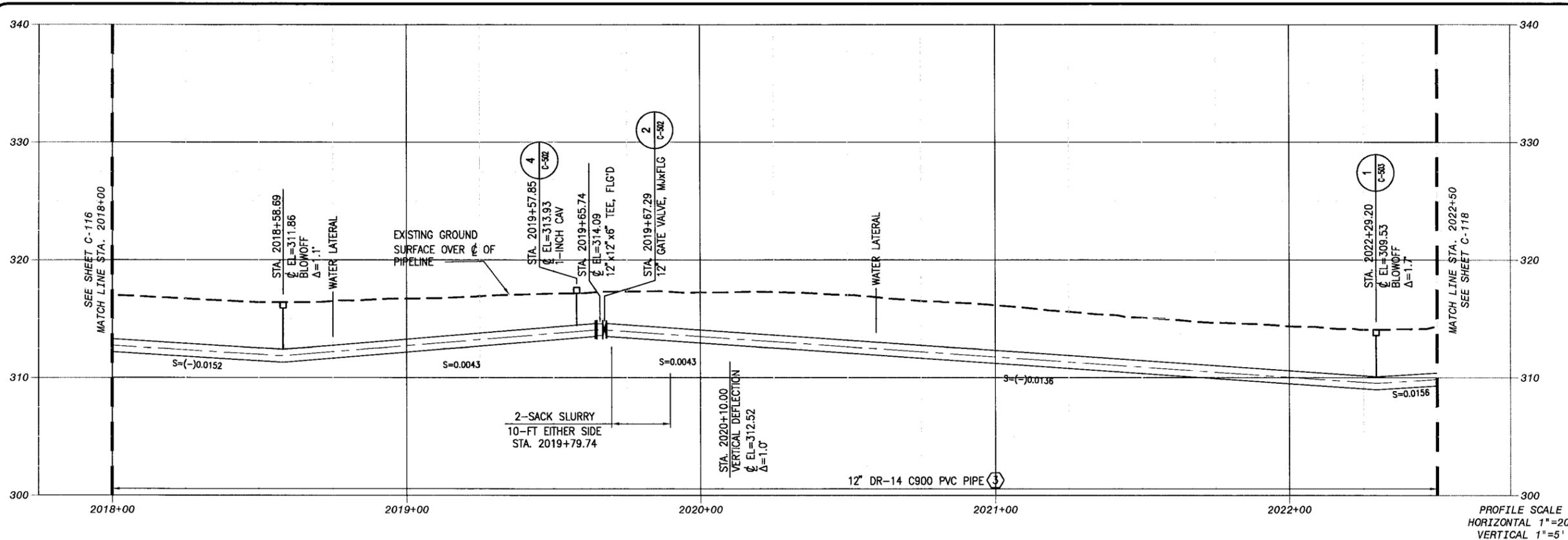


NIPOMO COMMUNITY SERVICES DISTRICT
WATERLINE INTERLINE PROJECT - BP2
SOUTHLAND STREET
PLAN AND PROFILE
STA 2009+00 to 2013+50

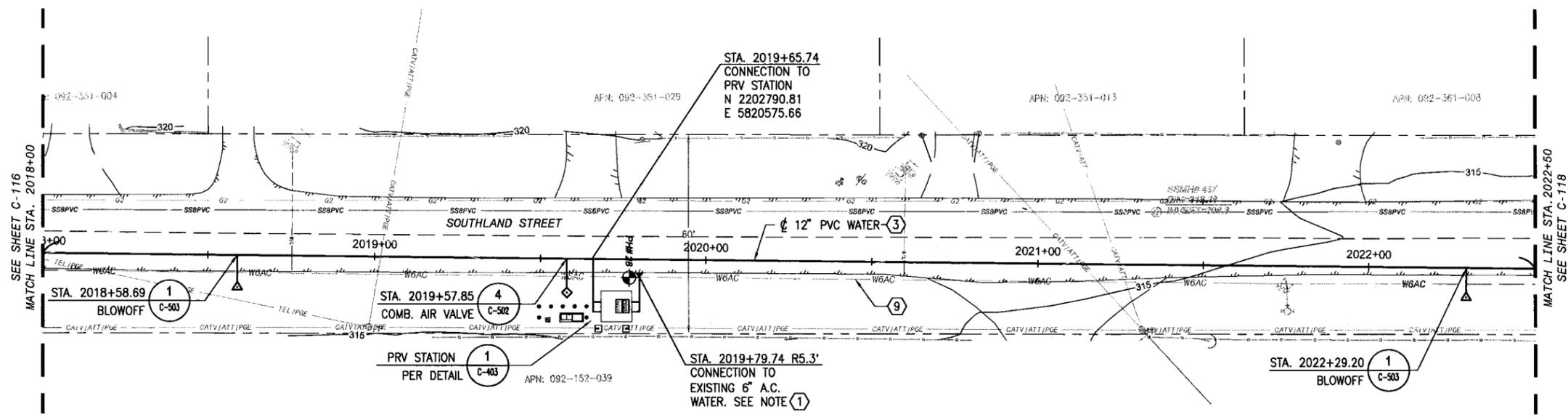
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 CHECKED:
 APPROVED:
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 60061295
 NCSU PROJECT NO.

CADD STDS.
 BOYLE/AECOM
C-115
 SHEET
 19 OF 80

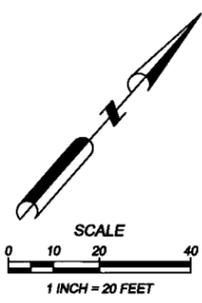
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 DESIGNED: JHR
 CHECKED: JPF
 DATE: APRIL 2010
 AECOM PROJECT NO. 80061295
 NCSO PROJECT NO.
 CADD STDS. BOYLE/AECOM
 C-117 SHEET 21 OF 80



PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



- CONSTRUCTION NOTES:**
- ① NOTIFY NCSO STAFF PRIOR TO INTERRUPTION OF SERVICE. INTERRUPTION OF SERVICE SHALL BE COORDINATED WITH NCSO AND DURATION SHALL BE MINIMIZED.
 - ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
 - ⑨ PROTECT EXISTING 6" A.C. PIPE IN PLACE AND OPERATIONAL. POSITIVELY LOCATE PIPELINE IN ADVANCE OF CONSTRUCTION. SEE SPECIFICATION SECTION 020120.



UTILITY POTHOLE DATA			
LABEL	SURFACE ELEV. (FT)	DEPTH TO TOP OF PIPE (FT)	PIPE SIZE, MATERIAL AND NOTES
PH#28	-	4.33	6" DIAMETER A.C. WATER

AECOM WATER
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 DATE: APRIL 30, 2010
****DRAFT FINAL PRELIMINARY DESIGN PLANSET****

IF THIS BAR DOES NOT
 MEASURE 1" THEN DRAWING IS
 NOT TO FULL SCALE

AECOM

AECOM USA, Inc.
 1155 Market Street, Suite 204
 San Luis Obispo, California 93401
 T 805.542.8940 F 805.542.8980
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NIPOMO

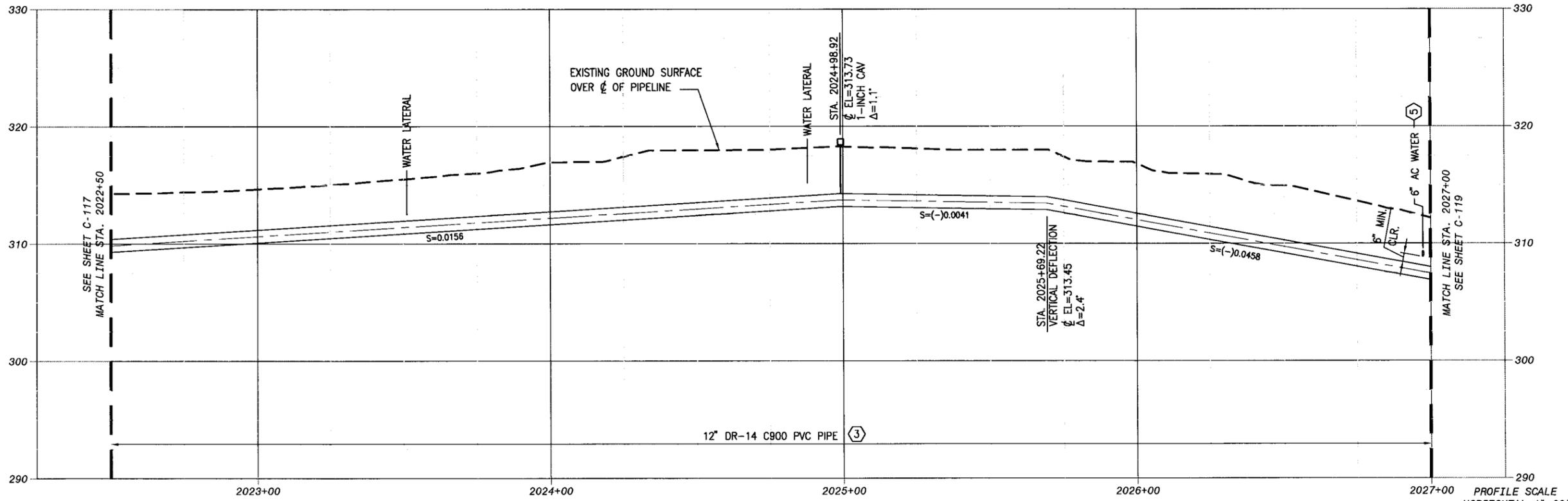
NIPOMO COMMUNITY SERVICES DISTRICT
 WATERLINE INTERTIE PROJECT - BP2
 SOUTHLAND STREET
 PLAN AND PROFILE
 STA 2018+00 to 2022+50

DESIGNED: JHR	DATE: APRIL 2010
DETAILS: JPF	AECOM PROJECT NO. 80061295
CHECKED:	NCSO PROJECT NO.
APPROVED:	
CADD STDS. BOYLE/AECOM	

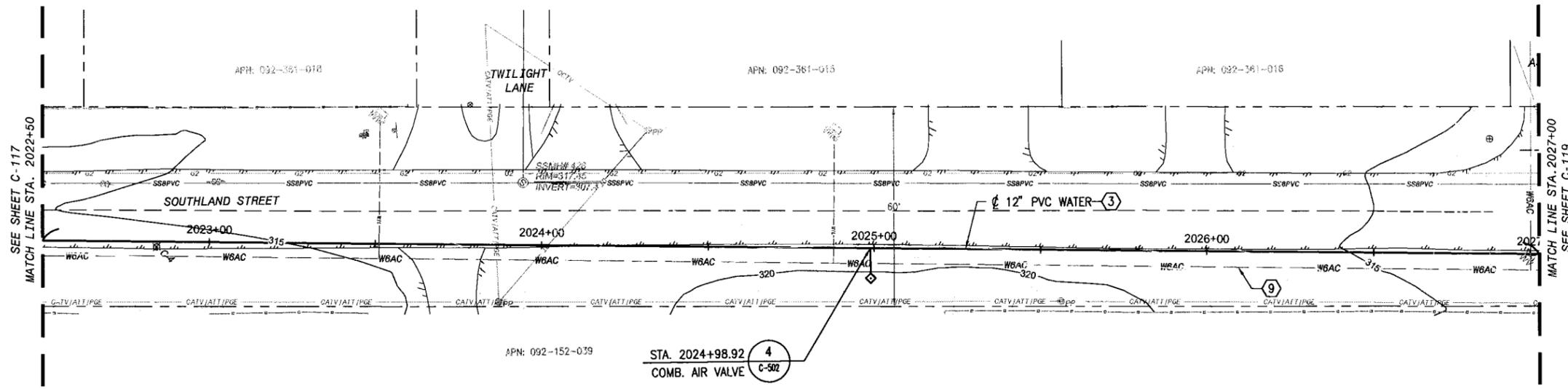
C-117

SHEET 21 OF 80

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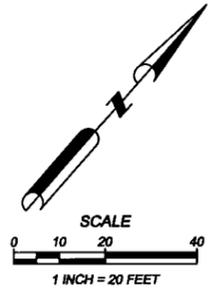


PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



CONSTRUCTION NOTES:

- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
- ⑤ POT HOLE UTILITY CROSSING PER SPECIFICATION SECTION 023219. SUBMIT WRITTEN POT HOLE REPORT TO OWNER'S REPRESENTATIVE AND NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS ARE DISCOVERED.
- ⑨ PROTECT EXISTING 6" A.C. PIPE IN PLACE AND OPERATIONAL. POSITIVELY LOCATE PIPELINE IN ADVANCE OF CONSTRUCTION. SEE SPECIFICATION SECTION 020120.



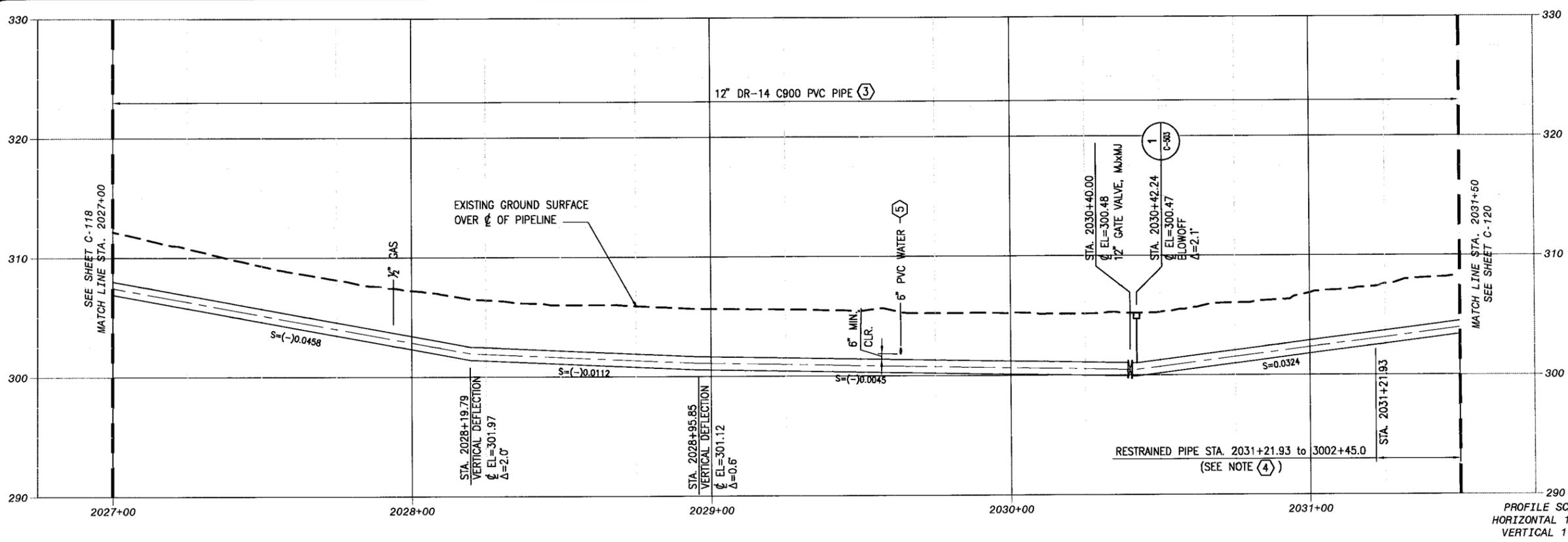
AECOM WATER
FOR PRELIMINARY USE ONLY
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DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET

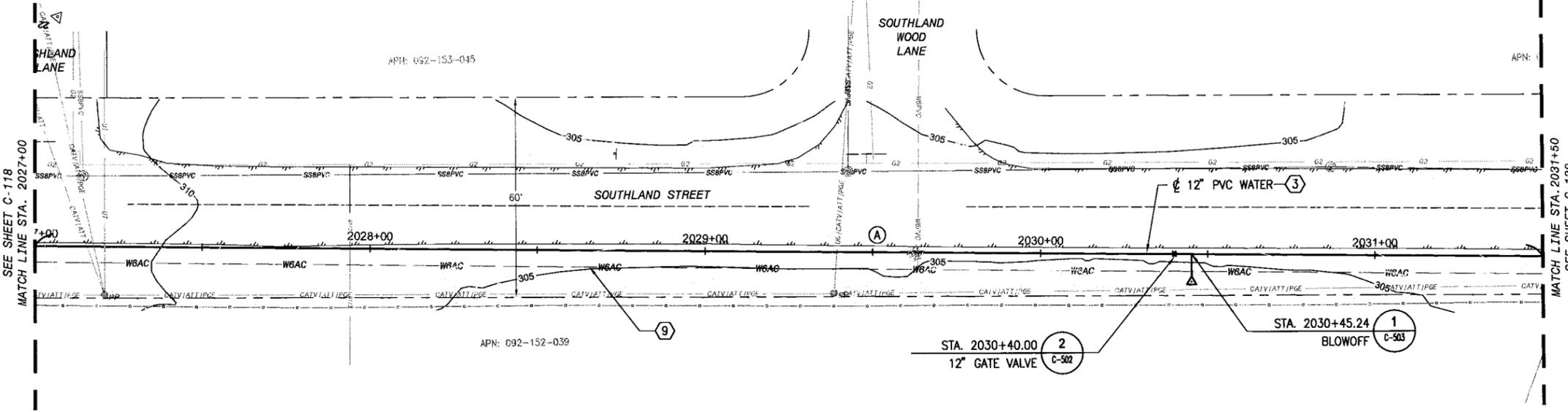
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 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

<p>NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2</p> <p>SOUTH LAND STREET PLAN AND PROFILE</p> <p>STA 2022+50 to 2027+00</p>	
DESIGNED: JHR DETAILED: JPF CHECKED: APPROVED:	DATE: APRIL 2010 AECOM PROJECT NO. 60061295 NCSO PROJECT NO.
GADD STDS. BOYLE/AECOM	C-118 SHEET 22 OF 80

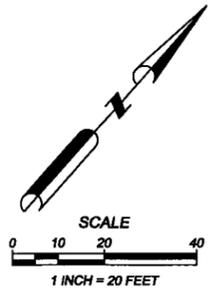
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PROFILE SCALE
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- CONSTRUCTION NOTES:**
- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
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 - ⑤ POTHOLE UTILITY CROSSING PER SPECIFICATION SECTION 023219. SUBMIT WRITTEN POTHOLE REPORT TO OWNER'S REPRESENTATIVE AND NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS ARE DISCOVERED.
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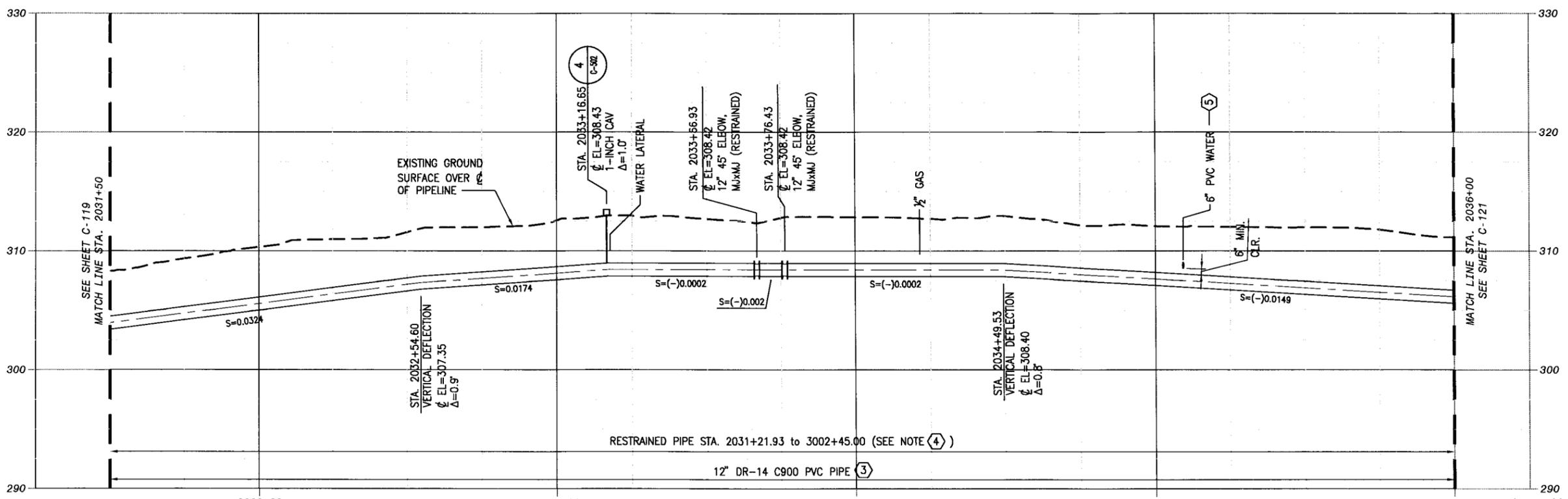


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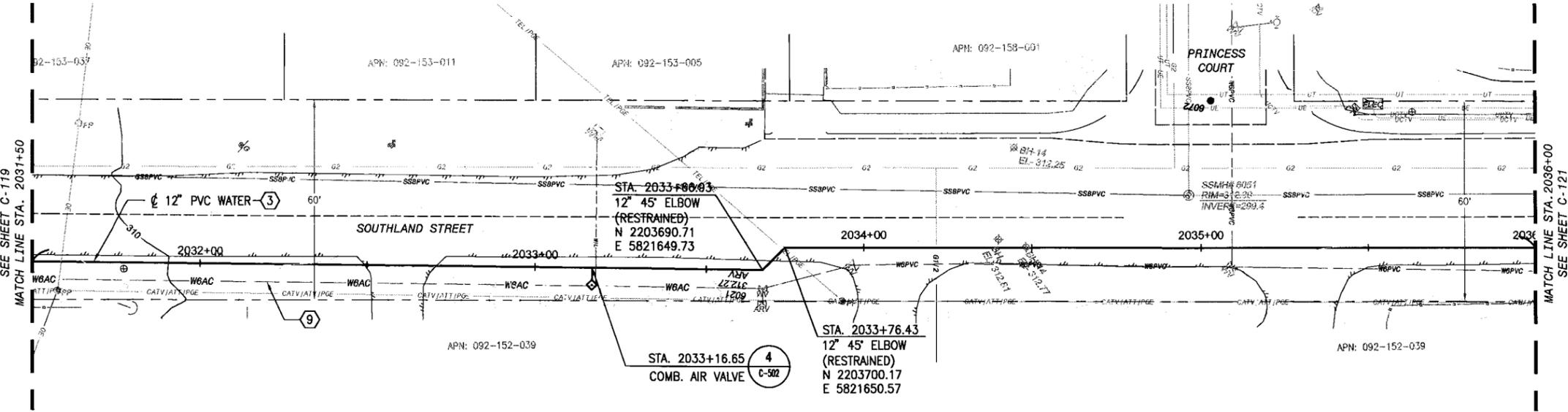
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APPROVED	APR										
REVIEWED	EXP. DATE										
DESIGNED	09/30/2009										
PROJECT ENGINEER	JOSHUA H. REYNOLDS										
PROJECT NUMBER	C65-400										
	<p style="font-size: small;"> AECOM USA, Inc. 1154 Park Street, Suite 204 San Luis Obispo, California 93401 T 805.542.8840 F 805.542.8990 www.aecom.com </p>										
	<p style="text-align: center;"> NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2 SOUTHLAND STREET PLAN AND PROFILE STA 2027+00 to 2031+50 </p>										
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APPROVED:	CADD STDS. BOYLE/AECOM										
<p>C-119 SHEET 23 OF 80</p>											

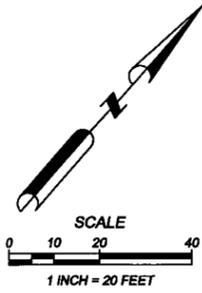
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 WPCS: WSD LOGO transparent project - final.dwg



PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



- CONSTRUCTION NOTES:**
- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
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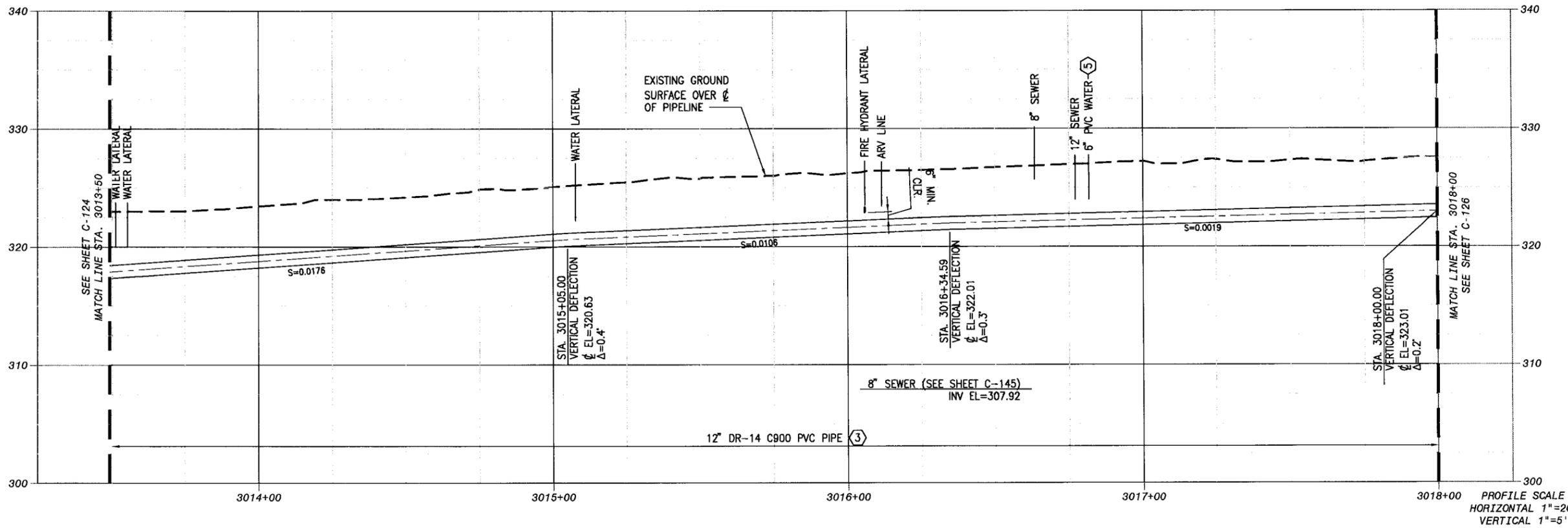
AECOM WATER
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 DRAFT FINAL PRELIMINARY DESIGN PLANSET

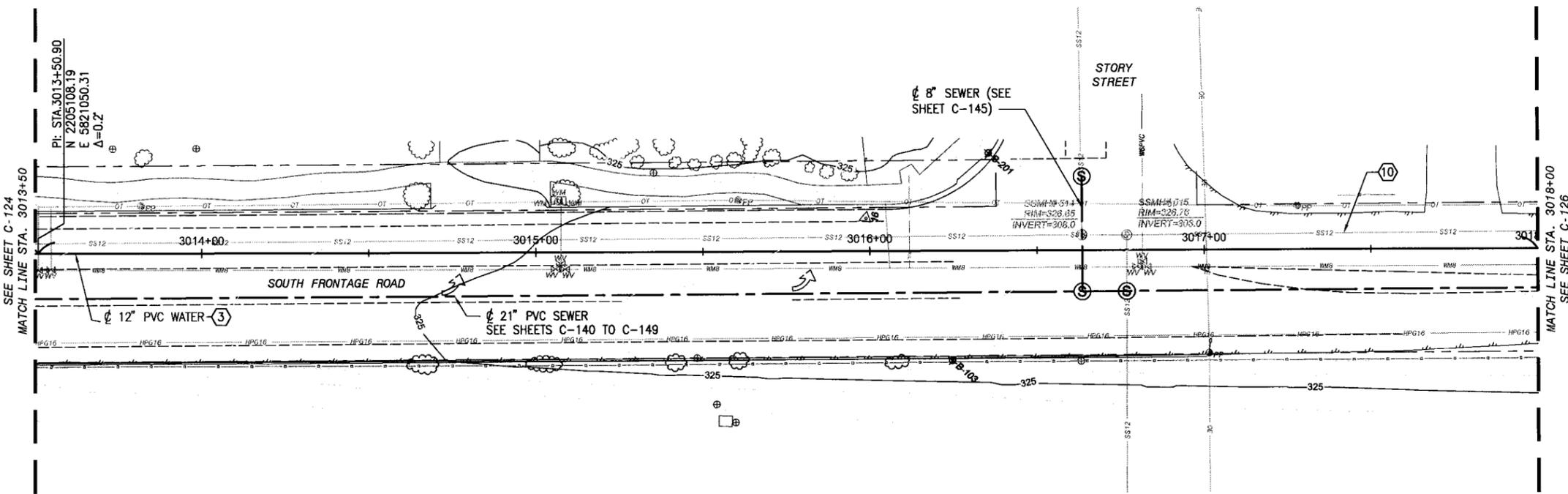
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 IF THIS BAR DOES NOT
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DATE 09/30/2009	DESCRIPTION C65400						
APPR 09/30/2009	EXP DATE 09/30/2009						
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERIOR PROJECT - BP2 SOUTHLAND STREET PLAN AND PROFILE STA 2031+50 to 2036+00							
DESIGNED: JMR DETAILED: JPF CHECKED: APPROVED: DATE: APRIL 2010 AECOM PROJECT NO. 80081295 NCSO PROJECT NO.							
CADD STDS. BOYLE/AECOM C-120 SHEET 24 OF 80							

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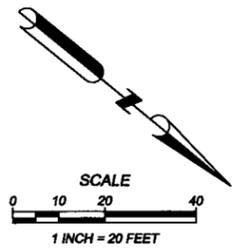


PROFILE SCALE
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CONSTRUCTION NOTES:

- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
- ⑤ POT HOLE UTILITY CROSSING PER SPECIFICATION SECTION 023219. SUBMIT POT HOLE REPORT TO OWNER'S REPRESENTATIVE AND NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS ARE DISCOVERED.
- ⑩ EXISTING SEWER SHALL REMAIN IN SERVICE UNTIL 21" SEWER IS COMPLETED. DO NOT CONSTRUCT 12" WATERLINE UNTIL EXISTING 12" SEWER IS ABANDONED. SEE SPECIFICATION SECTION 013216.

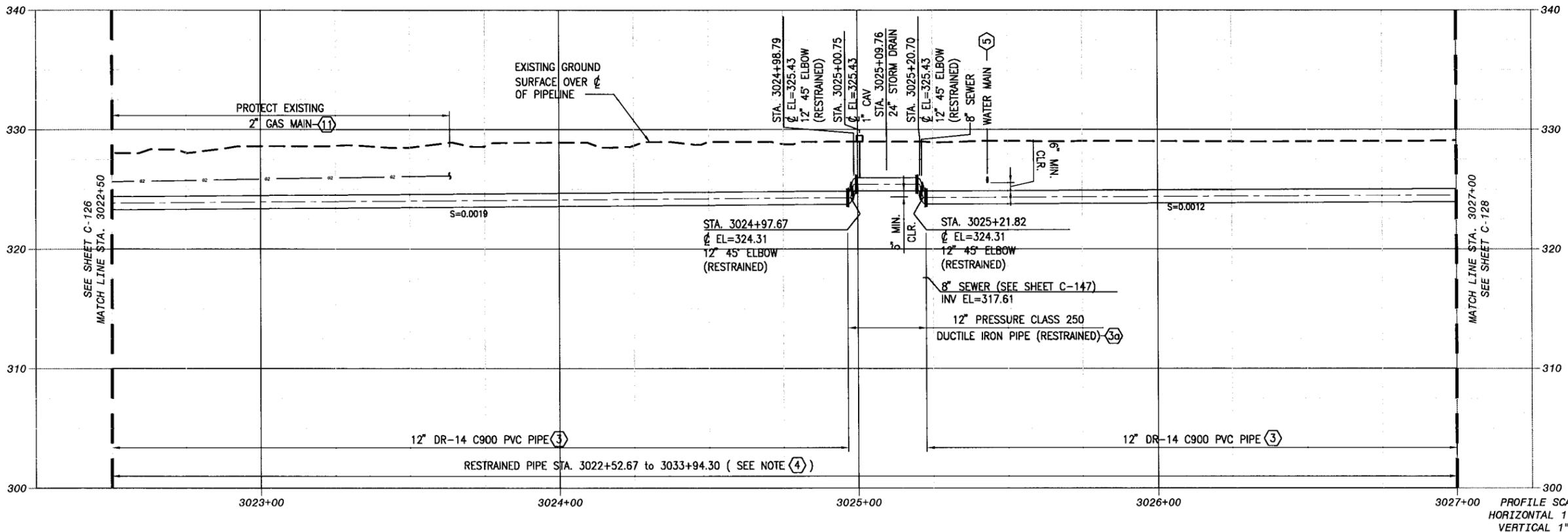


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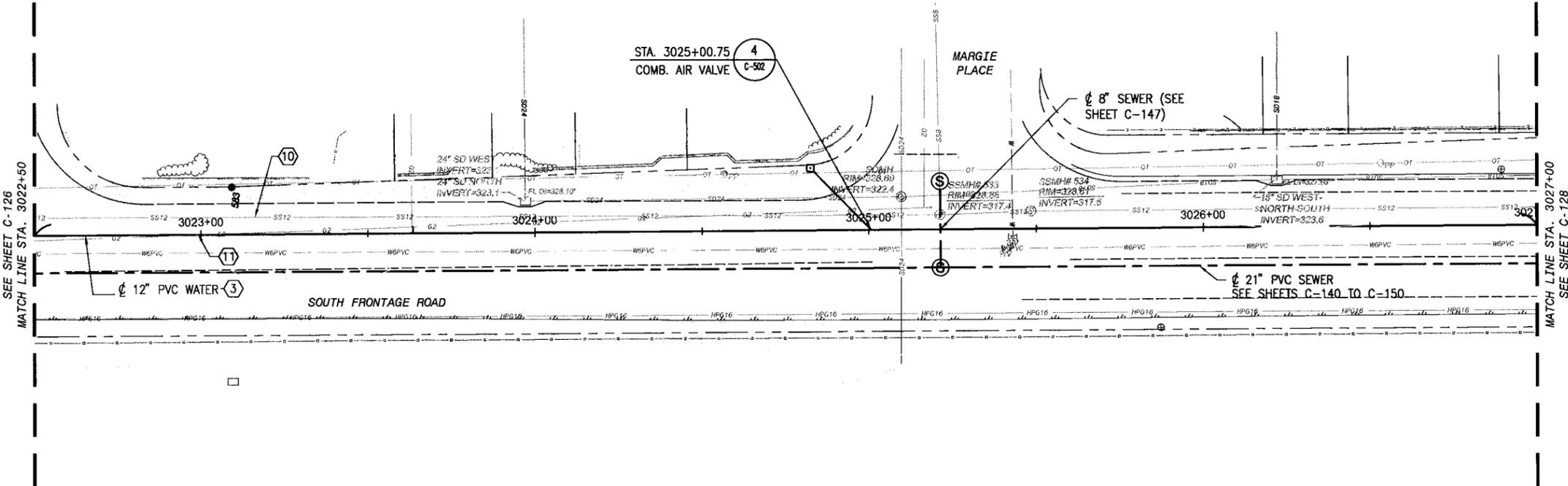
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PROJECT ENGINEER	JOSHUA H. REYNOLDS										
REG NUMBER	C85-400										
E/P DATE	09/30/2008										
	<p style="font-size: small;"> AECOM USA, INC. 11400 Wilshire Blvd., Suite 200 Los Angeles, California 90025 T 805.542.9940 F 805.542.9990 www.aecom.com </p>										
	<p style="text-align: center;"> NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERITE PROJECT - BP2 SOUTH FRONTAGE ROAD WATER PLAN AND PROFILE STA 3013+50 to 3018+00 </p>										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DESIGNED: JHR</td> <td style="width: 50%;">DATE: APRIL 2010</td> </tr> <tr> <td style="width: 50%;">DETAILED: JPF</td> <td style="width: 50%;">AECOM PROJECT NO. 80081295</td> </tr> <tr> <td style="width: 50%;">CHECKED:</td> <td style="width: 50%;">NCSU PROJECT NO.</td> </tr> <tr> <td style="width: 50%;">APPROVED:</td> <td style="width: 50%;">CADD STDS. BOYLE/AECOM</td> </tr> </table>	DESIGNED: JHR	DATE: APRIL 2010	DETAILED: JPF	AECOM PROJECT NO. 80081295	CHECKED:	NCSU PROJECT NO.	APPROVED:	CADD STDS. BOYLE/AECOM	<p style="font-size: x-large; font-weight: bold;">C-125</p> <p style="font-size: large; font-weight: bold;">SHEET</p> <p style="font-size: large; font-weight: bold;">29 OF 80</p>		
DESIGNED: JHR	DATE: APRIL 2010										
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APPROVED:	CADD STDS. BOYLE/AECOM										

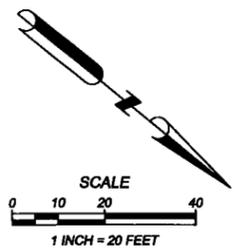
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PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



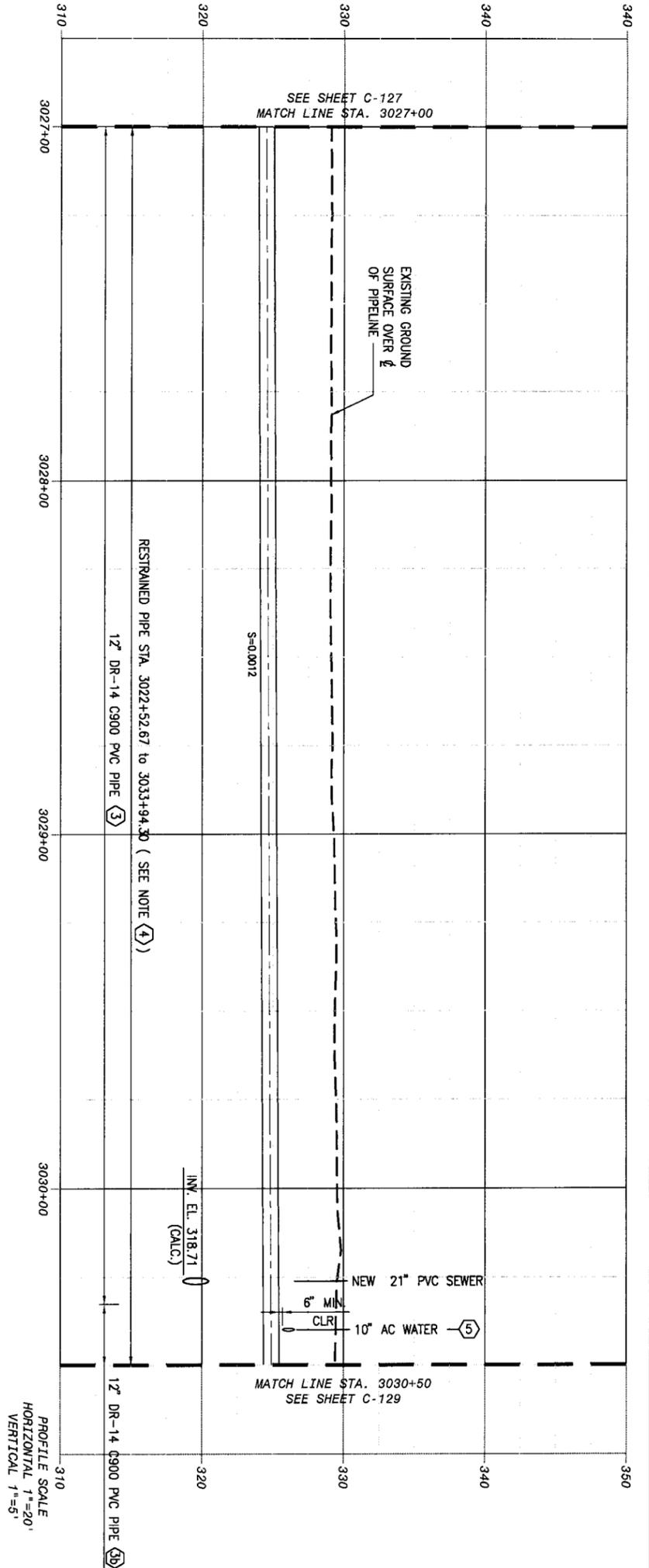
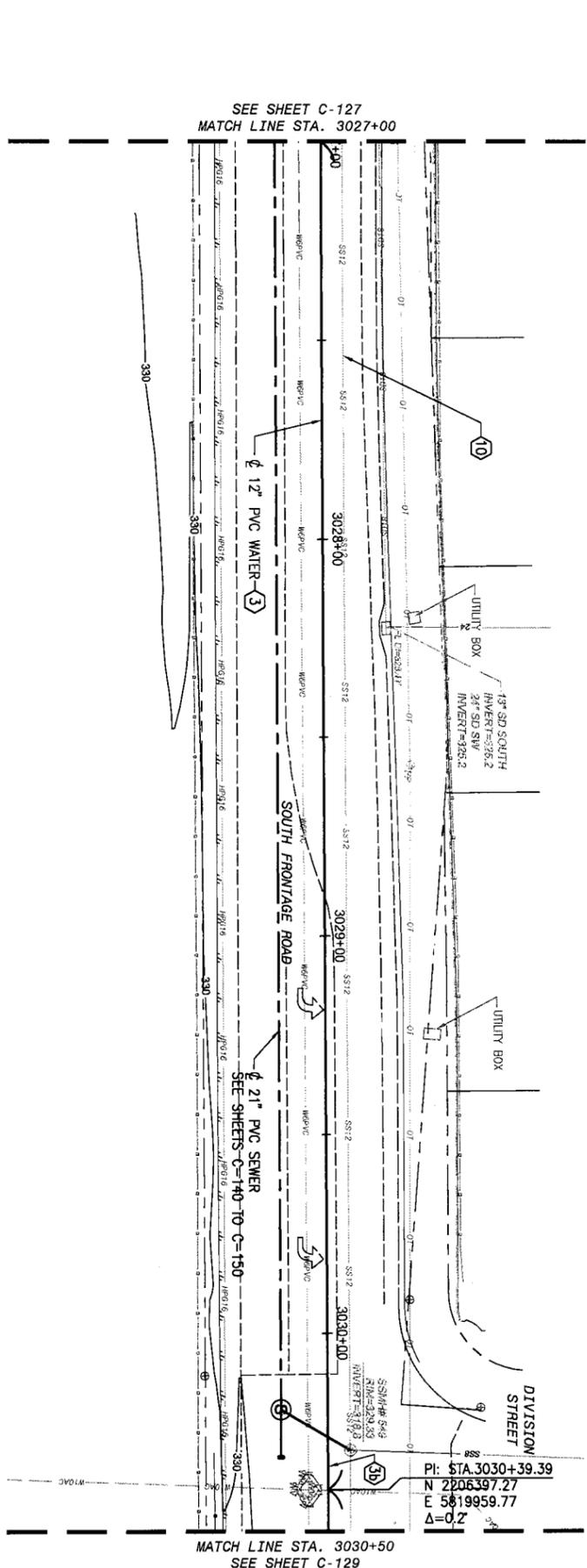
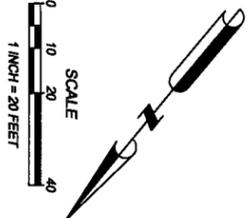
- CONSTRUCTION NOTES:**
- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
 - ③a 12" PC 250 RESTRAINED DUCTILE IRON PIPE PER SPECIFICATION SECTION AND DETAIL 3/C-503.
 - ④ INSTALL RESTRAINED JOINT PIPE PER SPECIFICATION SECTION 402040. RESTRAIN 12" P.V.C. PIPE 245-FEET IN EACH DIRECTION, FROM FITTING AT STA. 3024+97.67 AND STA. 3031+49.30.
 - ⑤ POTHOLE UTILITY CROSSING PER SPECIFICATION SECTION 023219. SUBMIT WRITTEN POTHOLE REPORT TO OWNER'S REPRESENTATIVE AND NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS ARE DISCOVERED.
 - ⑩ EXISTING SEWER SHALL REMAIN IN SERVICE UNTIL 21" SEWER IS COMPLETED. DO NOT CONSTRUCT 12" WATERLINE UNTIL EXISTING 12" SEWER IS ABANDONED. SEE SPECIFICATION SECTION 013216.
 - ⑪ POTHOLE 2" GAS MAIN PRIOR TO START OF CONSTRUCTION IN VICINITY OF 2" GAS MAIN. IF 2" GAS MAIN IS WITHIN 3- FEET OF THE 12" WATERLINE, RELOCATE GAS MAIN TO THE EAST OF THE 12" WATERLINE. COORDINATE WITH GAS COMPANY PRIOR TO POTHOLING AND DO NOT WORK ON GAS COMPANY UTILITIES WITHOUT PERMISSION FROM THE GAS COMPANY.



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0 1/2 1
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	<p style="text-align: center;"> NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERIE PROJECT - BP2 SOUTH FRONTAGE ROAD WATER PLAN AND PROFILE STA 3022+50 to 3027+00 </p>																
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DESIGNED: JHR	CHECKED: JPF	APPROVED:	DATE: APRIL 2010														
AECOM PROJECT NO. 80081295		NCSJ PROJECT NO.															
CADD STDS. BOYLE/AECOM		C-127 SHEET 31 OF 80															



CONSTRUCTION NOTES:

- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
- ④ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503. CONFORM TO SPECIAL CONSTRUCTION REQUIREMENT PER C.D.P.H. AND N.C.S.D. STANDARDS.
- ⑤ INSTALL RESTRAINED JOINT PIPE PER SPECIFICATION SECTION 402040. RESTRAIN 12" P.V.C. PIPE 245'-FEET IN EACH DIRECTION, FROM FITTING AT STA. 3024+97.67 AND STA. 3031+49.30.
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AECOM WATER

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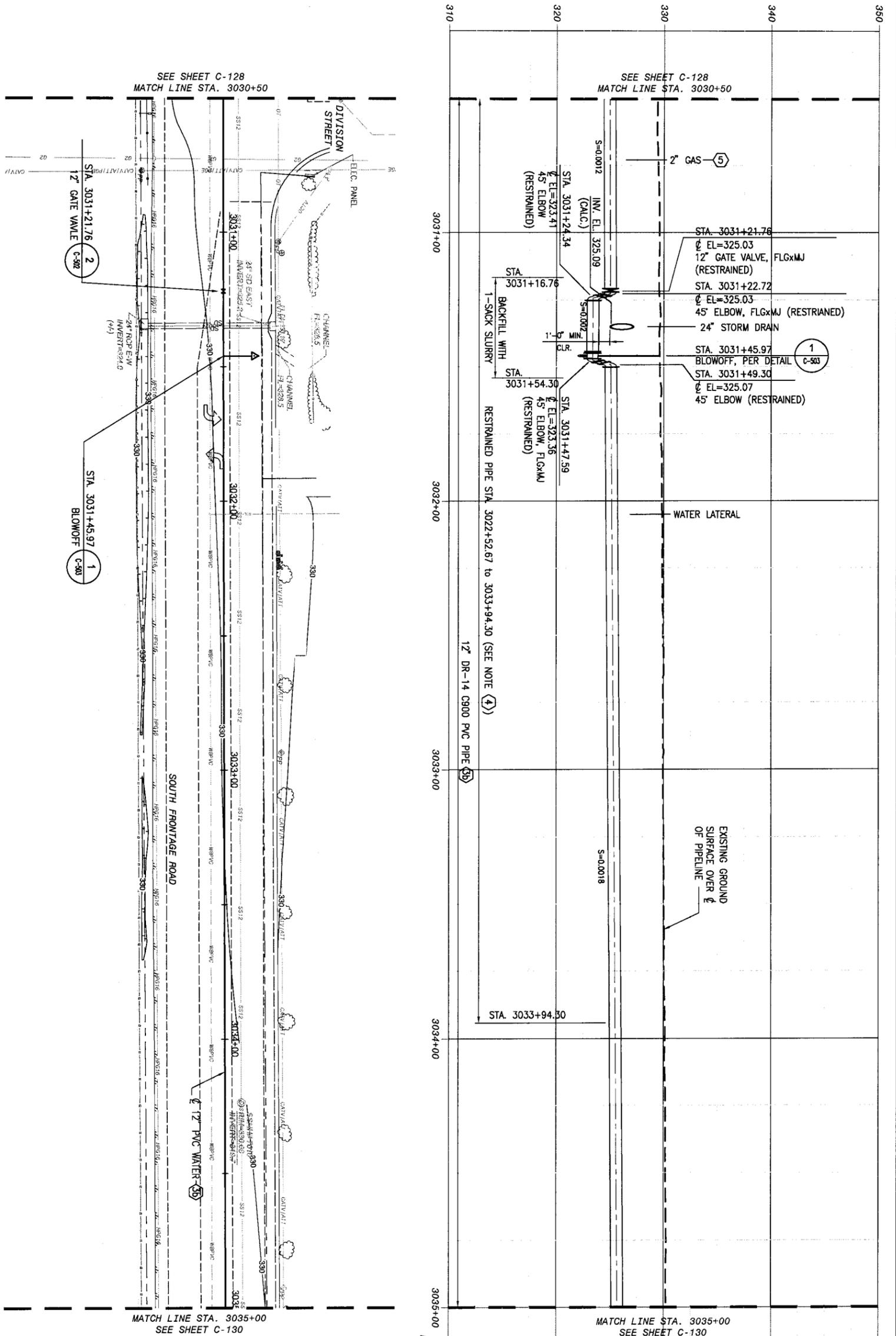
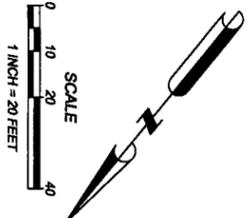
DATE: APRIL 30, 2010
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<p>NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERTIE PROJECT - BP2</p> <p>SOUTH FRONTAGE ROAD WATER PLAN AND PROFILE STA 3027+00 to 3030+50</p>		<p>AECOM</p> <p>AECOM USA, Inc. 1184 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9990 www.aecom.com</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>APPR</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>PROJECT ENGINEER: JOSHUA H. REYNOLDS REG NUMBER: C65400 EXP DATE: 09/30/2009</p>	REV	DATE	DESCRIPTION	APPR								
REV	DATE	DESCRIPTION	APPR													

CAD STDS: BOWLE/ACROW
 SHEET C-128
 32 OF 80



CONSTRUCTION NOTES:

- (3b) 12" DR-14 0900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503. CONFORM TO SPECIAL CONSTRUCTION REQUIREMENTS PER C.D.P.H. AND N.C.S.D. STANDARDS.
- (4) INSTALL RESTRAINED JOINT PIPE PER SPECIFICATION SECTION 402040. RESTRAIN 12" P.V.C. PIPE 245'-FEET IN EACH DIRECTION FROM FITTINGS AT STA. 3024+97.67 AND STA. 3031+49.30.
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**NIPOMO COMMUNITY SERVICES DISTRICT
 WATERLINE INTERTIE PROJECT - BP2**
 SOUTH FRONTAGE ROAD WATER
 PLAN AND PROFILE
 STA 3030+50 to 3035+00



AECOM
 AECOM USA, Inc.
 1194 Pacific Street, Suite 204
 San Luis Obispo, California 93401
 T 805.542.9840 F 805.542.9990
 www.aecom.com



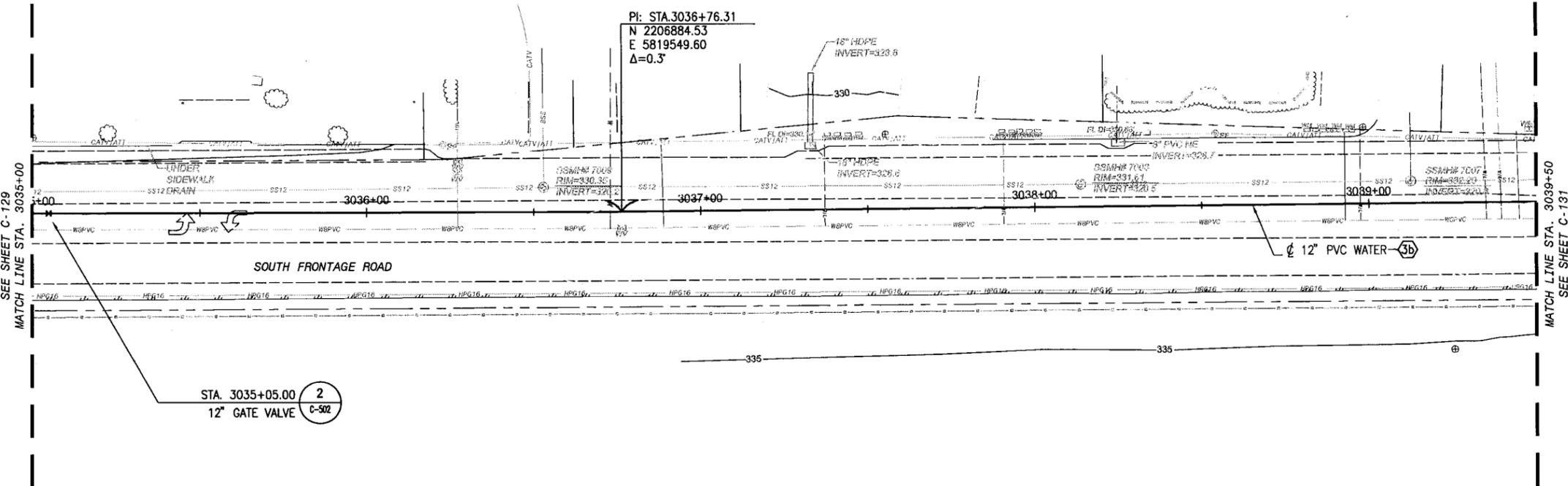
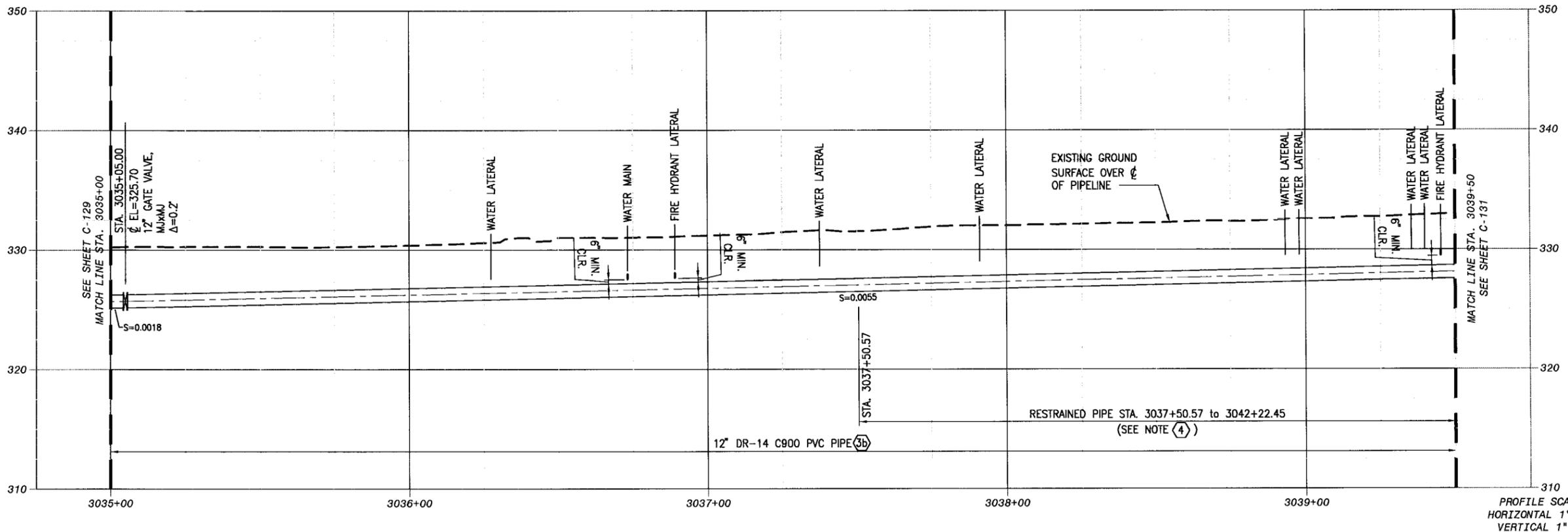
REV	DATE	DESCRIPTION	APPR

PROJECT ENGINEER: JOSHUA H. REYNOLDS
 REG NUMBER: C65400
 EXP DATE: 09/30/2009

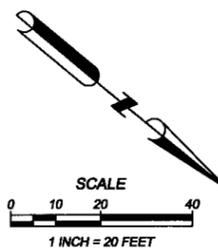
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 CHECKED: JPF
 DATE: APRIL 2010
 AECOM PROJECT NO. 60061296
 HSSD PROJECT NO.

C-129
 SHEET
 33 OF 80

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- CONSTRUCTION NOTES:**
- 3b) 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503. CONFORM TO SPECIAL CONSTRUCTION REQUIREMENTS PER C.D.P.H. AND N.C.S.D. STANDARDS.
 - 4) INSTALL RESTRAINED JOINT PIPE PER SPECIFICATION SECTION 402040. RESTRAIN 12" P.V.C. PIPE 245- FEET IN EACH DIRECTION, FROM FITTINGS AT STA. 3039+95.57 AND STA. 3042+22.45.

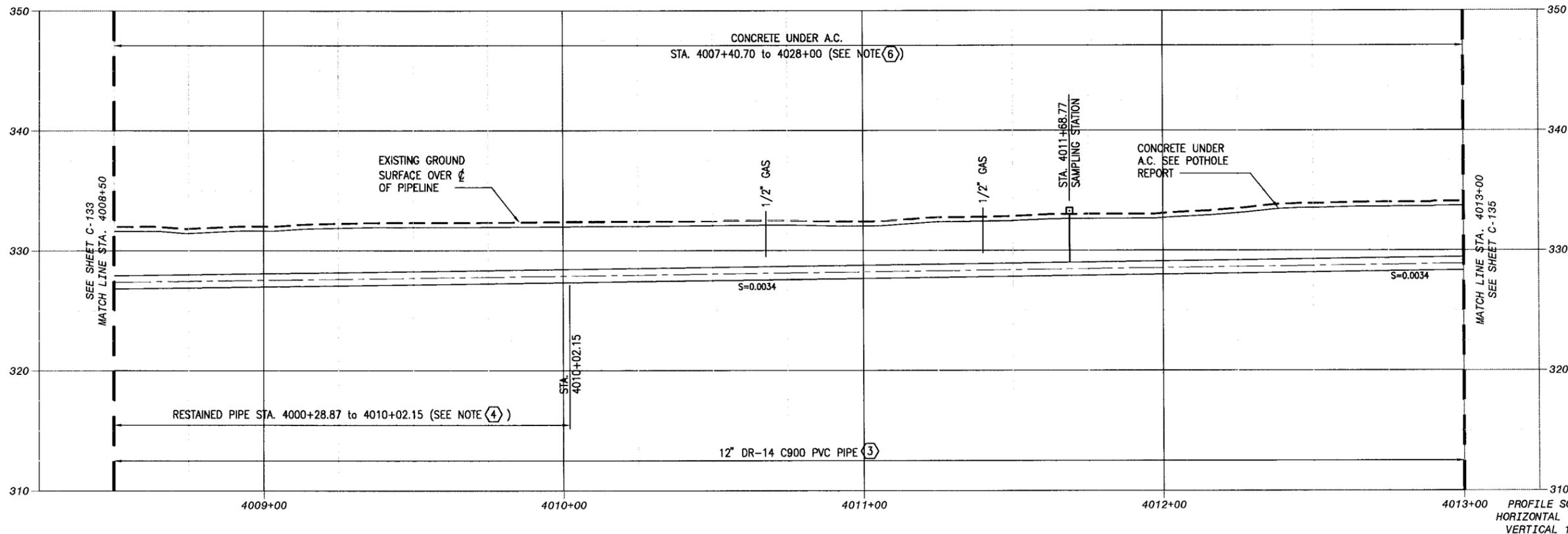


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 DRAFT FINAL PRELIMINARY DESIGN PLANSET

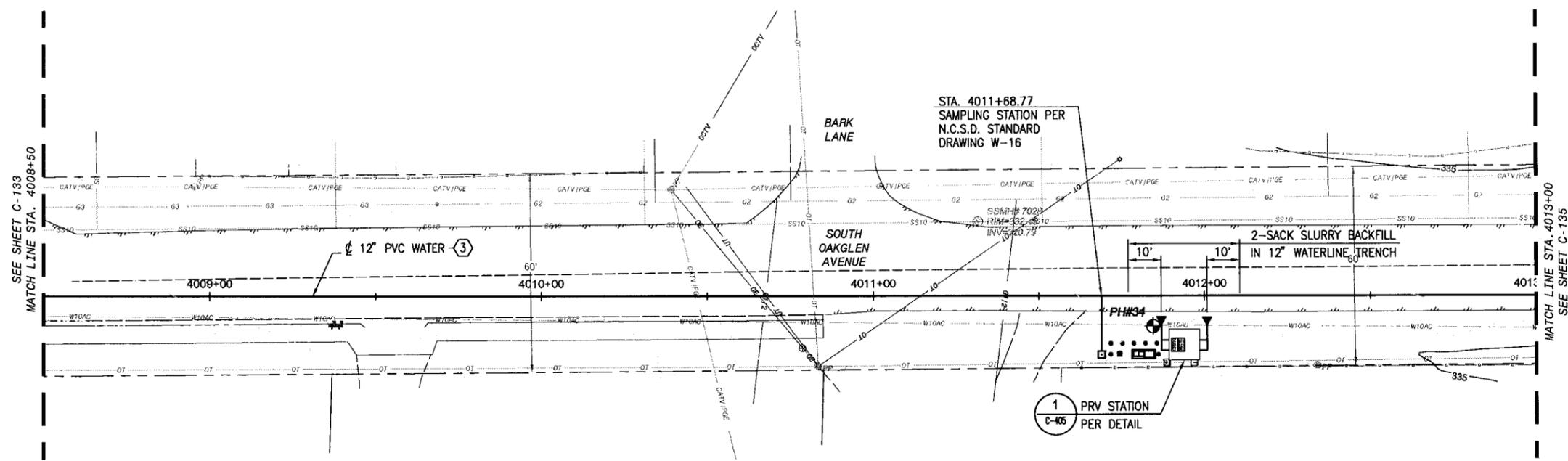
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DESCRIPTION	REV NUMBER												
PROJECT ENGINEER	JOB NUMBER												
JOSHUA H. REYNOLDS	C65400												
DATE	DATE												
08/30/2009	08/30/2009												
	<p style="font-size: small;"> AECOM USA, Inc. 200 San Luis Obispo, California 93401 T 805.542.9940 F 805.542.9990 www.aecom.com </p>												
	<p style="text-align: center;"> NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2 SOUTH FRONTAGE ROAD WATER PLAN AND PROFILE STA 3035+00 to 3039+50 </p>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DESIGNED: JHR</td> <td style="width: 50%;">DATE: APRIL 2010</td> </tr> <tr> <td style="width: 50%;">DETAILED: JPF</td> <td style="width: 50%;">AECOM PROJECT NO. 60061295</td> </tr> <tr> <td style="width: 50%;">CHECKED:</td> <td style="width: 50%;">NCSO PROJECT NO.</td> </tr> <tr> <td style="width: 50%;">APPROVED:</td> <td style="width: 50%;">CADD STDS. BOYLE/AECOM</td> </tr> </table>	DESIGNED: JHR	DATE: APRIL 2010	DETAILED: JPF	AECOM PROJECT NO. 60061295	CHECKED:	NCSO PROJECT NO.	APPROVED:	CADD STDS. BOYLE/AECOM	<p style="text-align: center;"> C-130 SHEET 34 OF 80 </p>				
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APPROVED:	CADD STDS. BOYLE/AECOM												

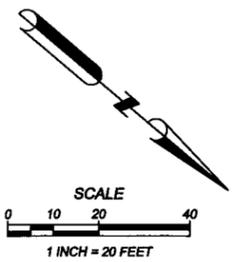
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PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



- CONSTRUCTION NOTES:**
- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
 - ④ INSTALL RESTRAINED JOINT PIPE AND FITTINGS PER SPECIFICATION SECTION 402040. RESTRAIN 12" P.V.C. PIPE 245- FEET IN EACH DIRECTION, FROM FITTINGS AT STA. 4000+27.92 AND STA. 4007+57.16.
 - ⑥ NOTE CONCRETE UNDER A.C. REMOVE AND DISPOSE PER SPECIFICATION SECTION 312316 AND DETAIL 3/C-503.



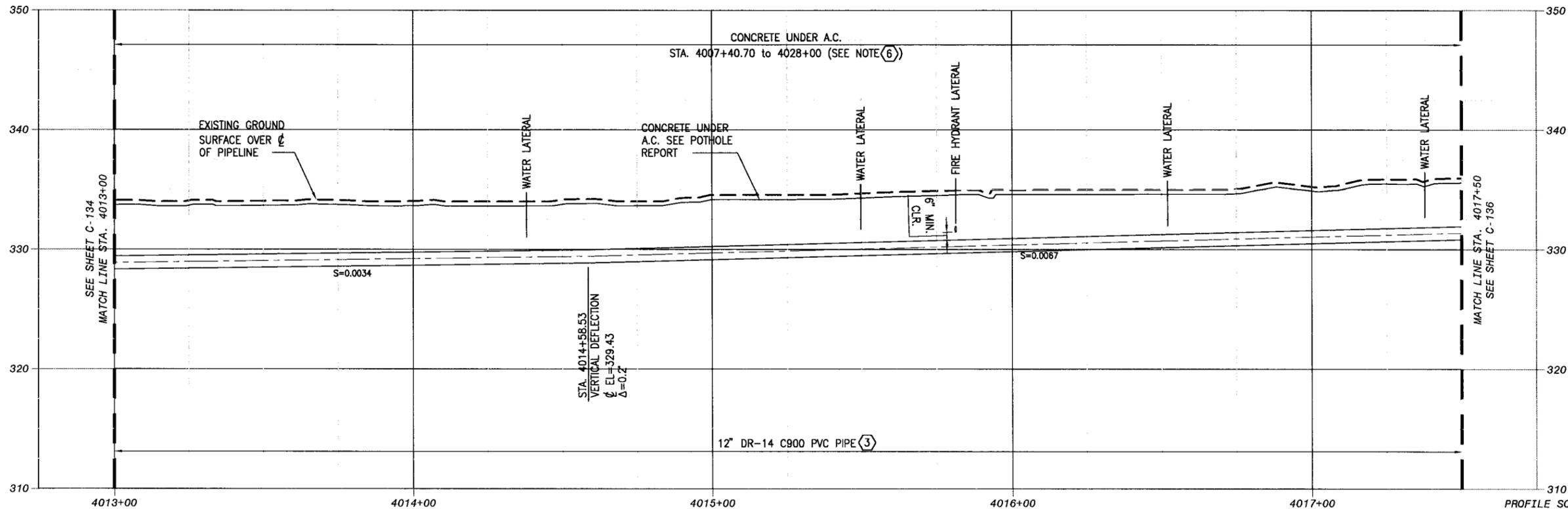
UTILITY POT HOLE DATA			
LABEL	SURFACE ELEV. (FT)	DEPTH TO TOP OF PIPE (FT)	PIPE SIZE, MATERIAL AND NOTES
PH#34	-	3.67	10" DIAMETER A.C. WATER

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 DRAFT FINAL PRELIMINARY DESIGN PLANSET

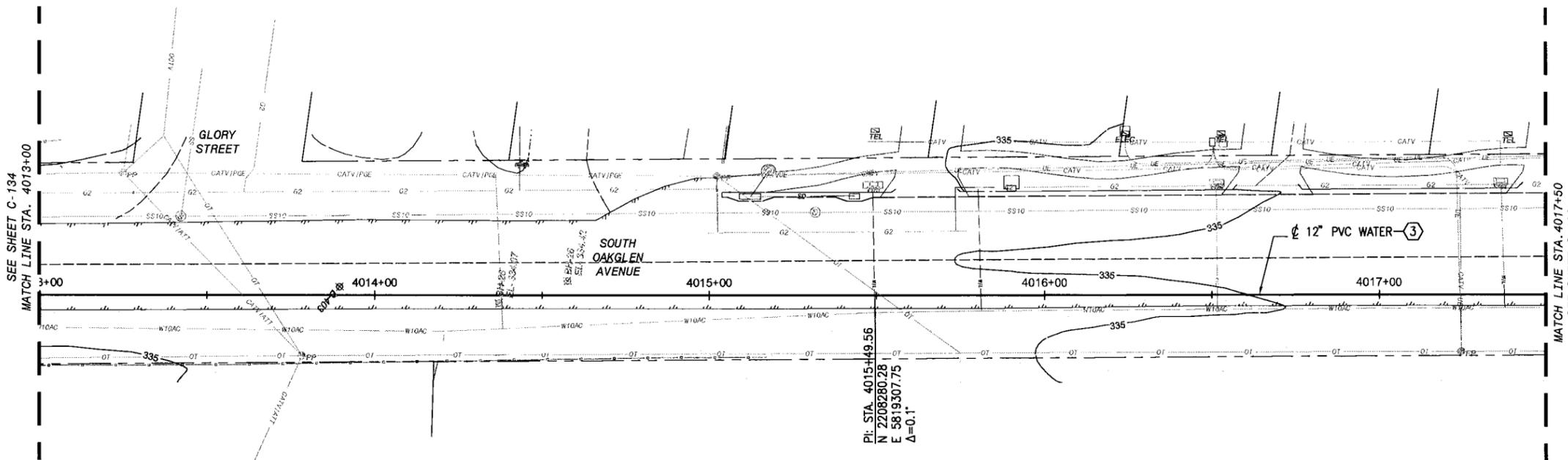
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 NOT TO FULL SCALE

	<p> AECOM <small>AECOM USA, Inc. 1104 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9990 www.aecom.com</small> </p>										
	<p> NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERIE PROJECT - BP2 SOUTH OAKGLEN AVENUE PLAN AND PROFILE STA 4008+50 to 4013+00 </p>										
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CADD STDS. BOYLE/AECOM	SHEET 38 OF 80										

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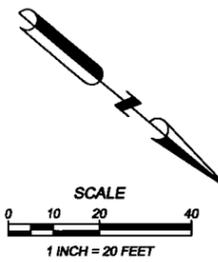


PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



- CONSTRUCTION NOTES:**
- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
 - ⑥ NOTE CONCRETE UNDER A.C. REMOVE AND DISPOSE PER SPECIFICATION SECTION 312316 AND DETAIL 3/C-503. SEE SECTION 321216 FOR THICKNESS.

3
C-303



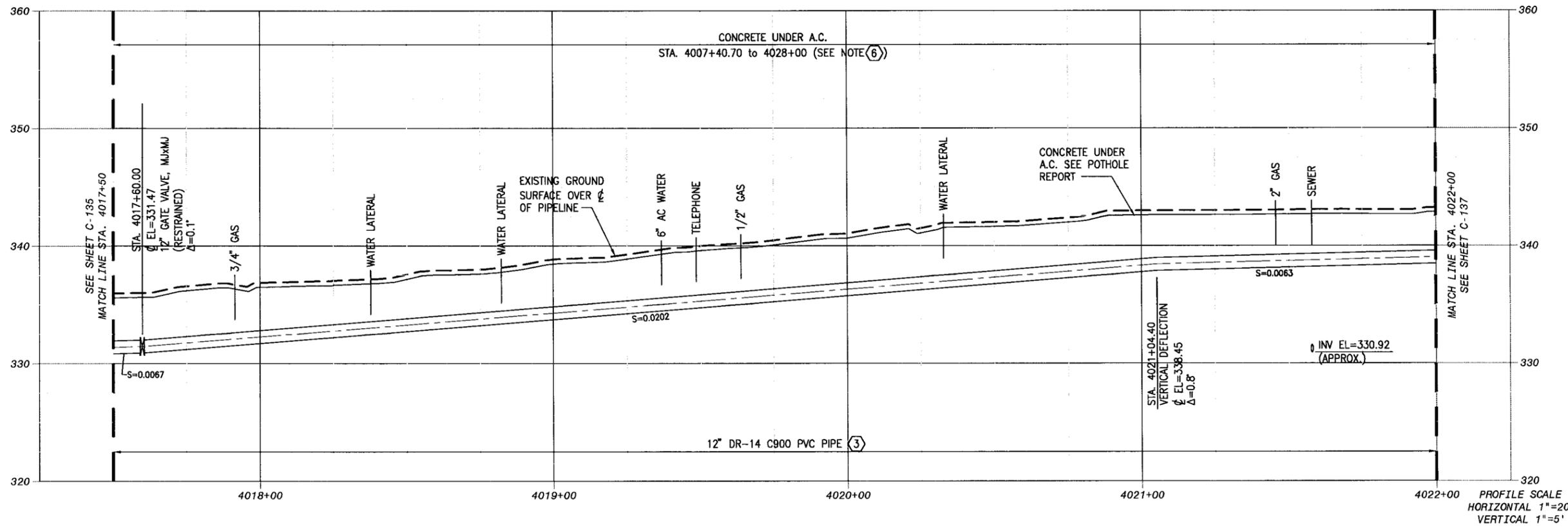
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DATE: APRIL 30, 2010
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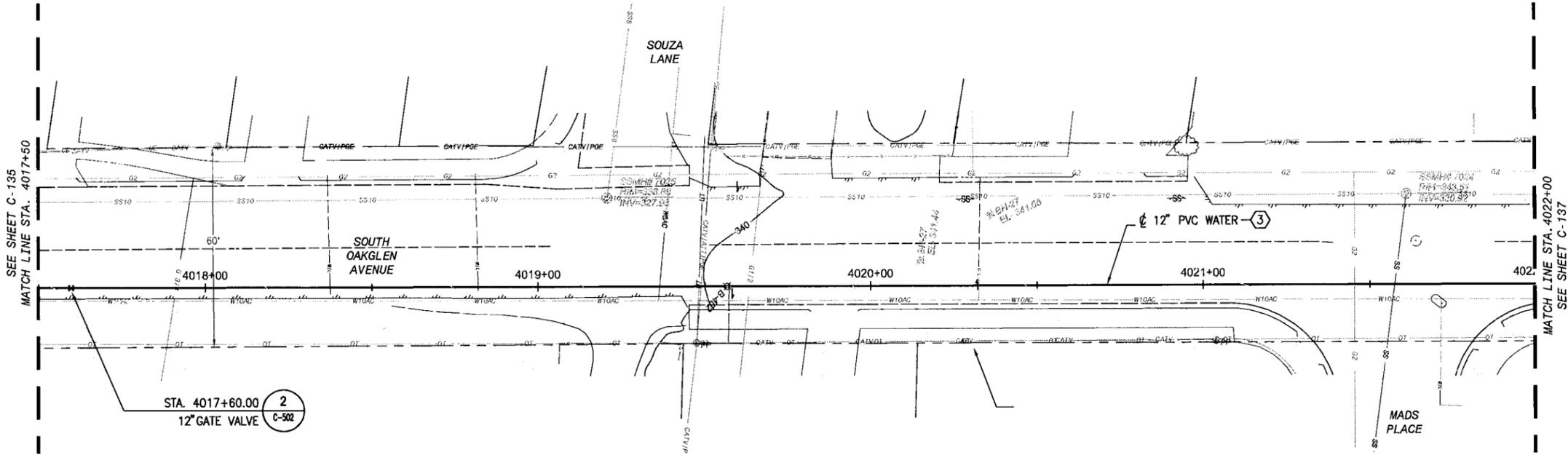
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APPR	EXP DATE										
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DESCRIPTION	C85-600										
PROJECT NUMBER											
PROJECT ENGINEER	JOSHUA H. REYNOLDS										
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SOUTH OAKGLEN AVENUE PLAN AND PROFILE STA 4013+00 to 4017+50											
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NCSO PROJECT NO.											
C-135 SHEET 39 OF 80											

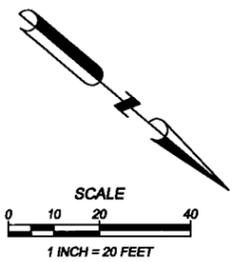
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PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



- CONSTRUCTION NOTES:**
- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
 - ⑥ NOTE CONCRETE UNDER A.C. REMOVE AND DISPOSE PER SPECIFICATION SECTION 312316 AND DETAIL 3 FOR THICKNESS.

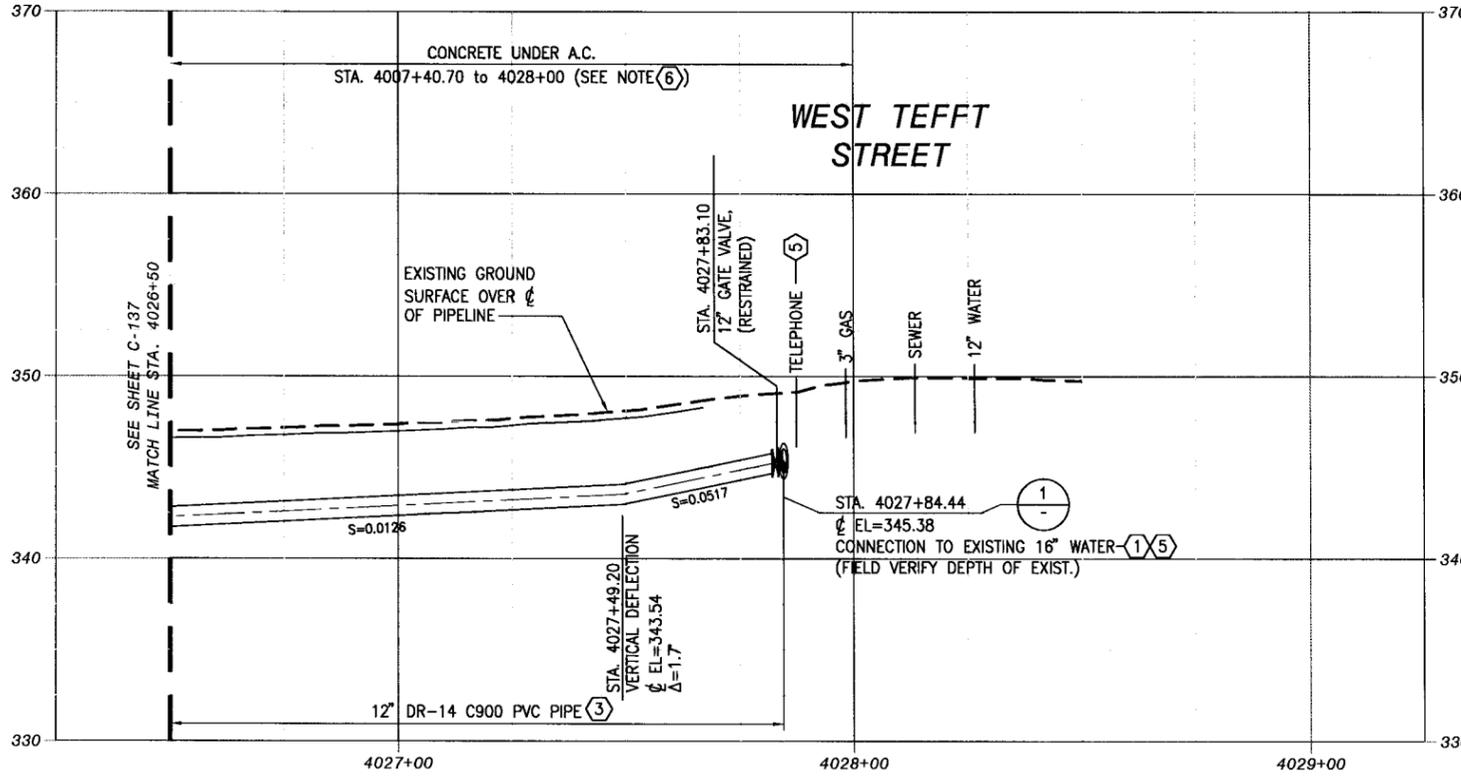


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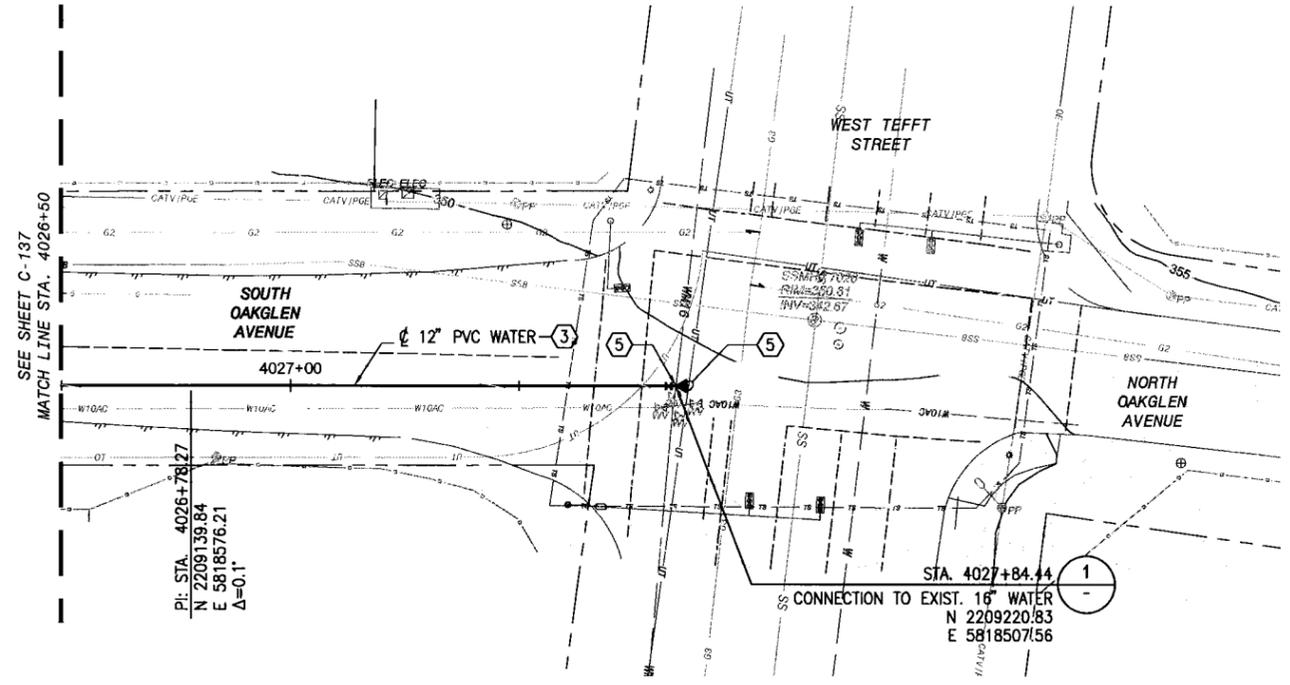
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AECOM 1154 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.9940 F 805.542.9990 www.aecom.com			
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2			
SOUTH OAKGLEN AVENUE PLAN AND PROFILE STA 4017+50 TO 4022+00			
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CADD STDS. BOYLE/AECOM	C-136 SHEET 40 OF 80		

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 SHEET: C-138

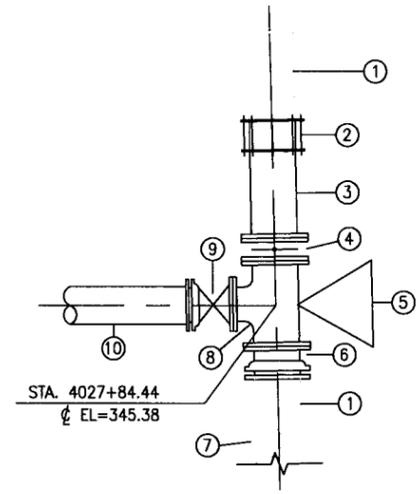
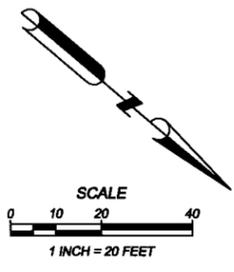


PROFILE SCALE
 HORIZONTAL 1"=20'
 VERTICAL 1"=5'



CONSTRUCTION NOTES:

- ① NOTIFY NCSO STAFF PRIOR TO INTERRUPTION OF SERVICE. INTERRUPTION OF SERVICE SHALL BE COORDINATED WITH NCSO AND DURATION SHALL BE MINIMIZED.
- ③ 12" DR-14 C900 P.V.C. PIPE PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503.
- ⑤ POT HOLE UTILITY CROSSING PER SPECIFICATION SECTION 023219. SUBMIT WRITTEN POT HOLE REPORT TO OWNER'S REPRESENTATIVE AND NOTIFY OWNER'S REPRESENTATIVE IF CONFLICTS ARE DISCOVERED.
- ⑥ NOTE CONCRETE UNDER A.C. REMOVE AND DISPOSE PER SPECIFICATION SECTION 312316 AND DETAIL C-503 SEE SPECIFICATION SECTION 321216 FOR THICKNESS.



NOTE:
 1. HOT TAPPING THE 16" C905 TRANSMISSION MAIN WILL NOT BE PERMITTED.

MATERIALS LIST:

- | | |
|---------------------------------------|---------------------------------------|
| ① EXISTING 16" C905 PVC PIPE | ⑦ EXISTING 16" BUTTERFLY VALVE |
| ② 16" TRANSITION COUPLING (ROMAC 501) | ⑧ 16"x12" TEE, FLG'D |
| ③ 16" x 3'-0" D.I.P. SPOOL, FLGXPE | ⑨ 12" GATE VALVE, FLGXMJ (RESTRAINED) |
| ④ 16" BUTTERFLY VALVE, FLGXFLG | ⑩ NEW 12" PVC WATER MAIN |
| ⑤ THRUST BLOCK PER DETAIL C-502 | |
| ⑥ 16" RESTRAINED FLANGE ADAPTER | |

STA. 4027+84.69 - CONNECTION TO EXISTING

SCALE:

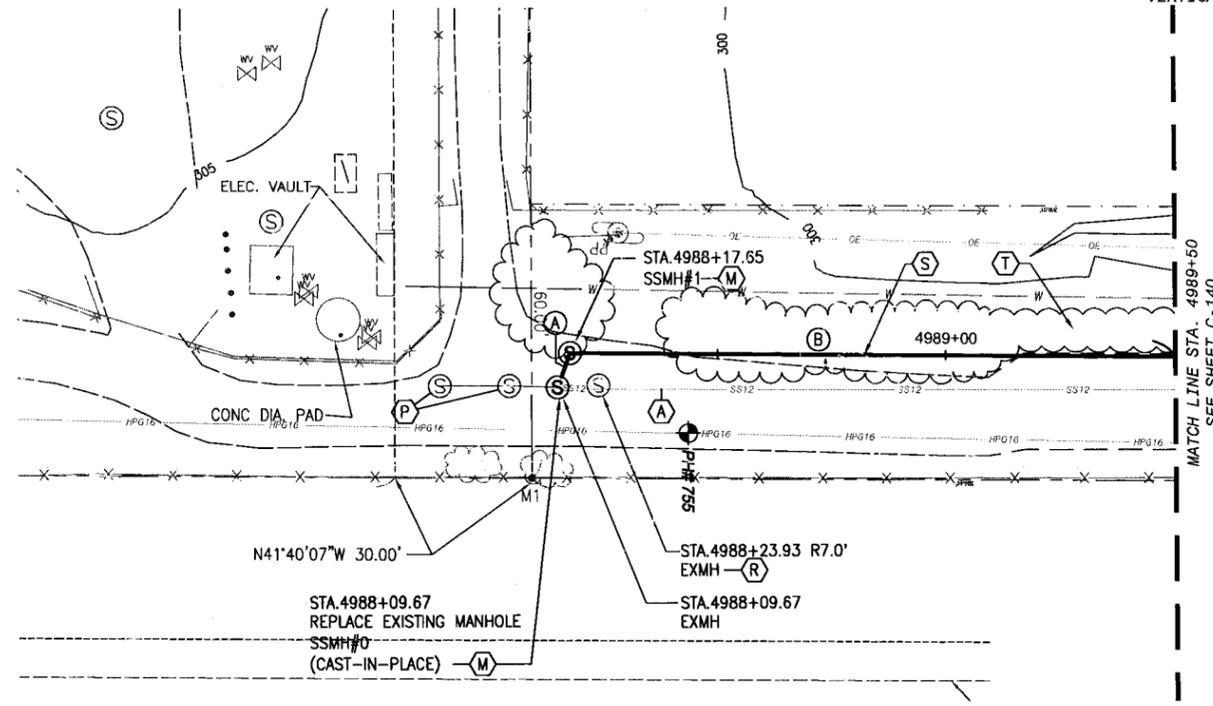
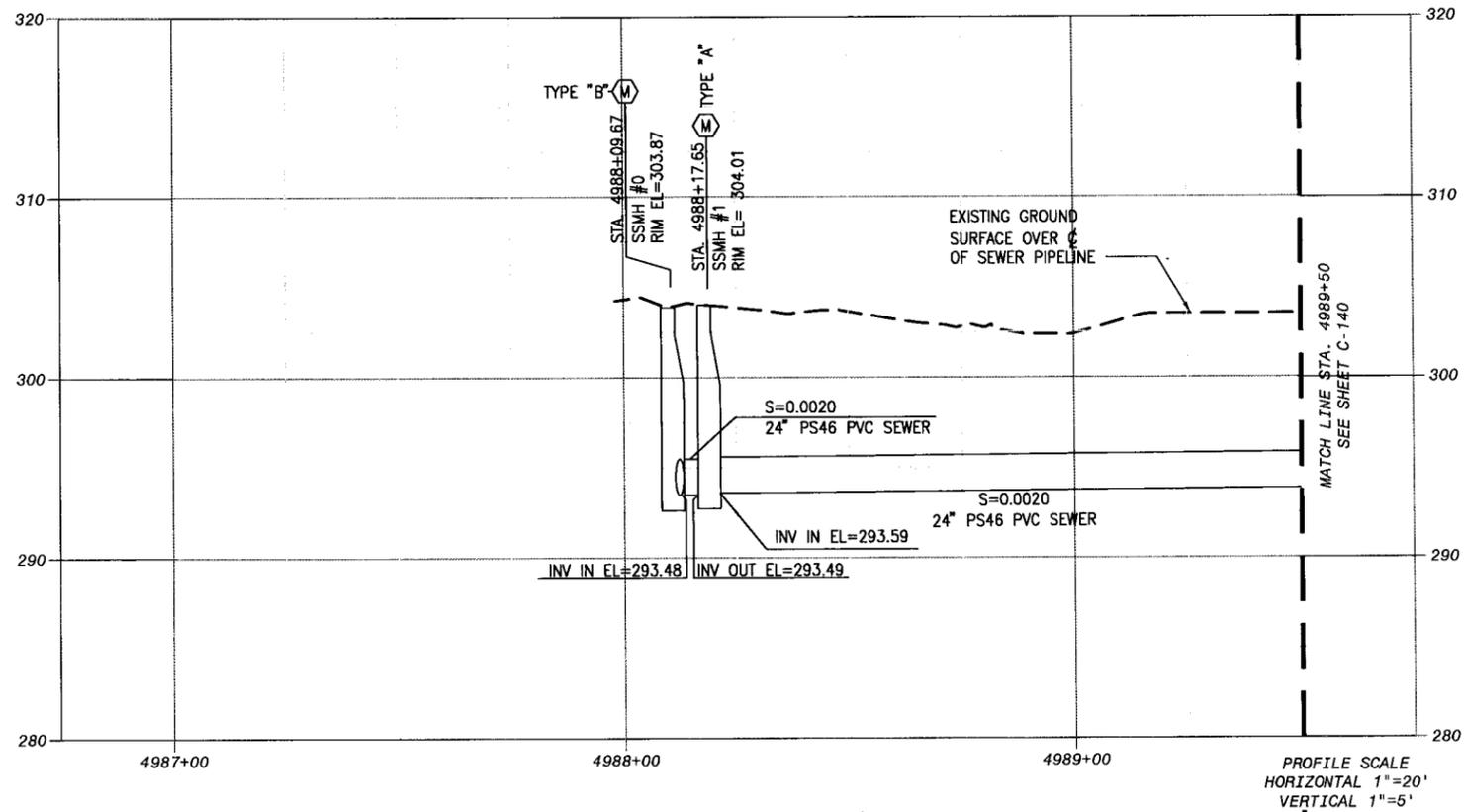
AECOM WATER
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DATE: APRIL 30, 2010
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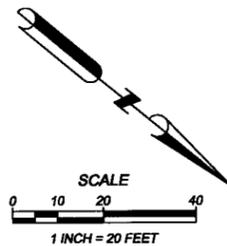
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AECOM <small> AECOM USA, Inc. 20000 Central Expressway, Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9890 www.aecom.com </small>								
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2								
SOUTH OAKGLEN AVENUE PLAN AND PROFILE STA 4026+50 to 4029+00								
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DATE: APRIL 2010								
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NCSO PROJECT NO.								
C-138 SHEET 42 OF 80								

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PIPELINE BEARINGS		
(A)	S 69°40'50.39\" W	7.98'
(B)	N 40°08'32.68\" W	132.35'



CONSTRUCTION NOTES:

- (M) PROVIDE AND INSTALL NEW SEWER MANHOLE. TYPE AS INDICATED PER DETAIL 1 C-505
- (R) REMOVE EXISTING MANHOLE AND ABANDON PIPE PER DETAIL 2 C-506
- (A) ABANDON EXISTING MANHOLE AND/OR SEWER IN-PLACE PER DETAIL 1 C-506
- (P) PROTECT IN PLACE
- (S) 24\"/>

GENERAL CONSTRUCTION SEQUENCE NOTE

1. EXISTING 12-INCH SEWER TO REMAIN IN SERVICE DURING CONSTRUCTION OF NEW 24-INCH PVC SEWER AND CONNECTION OF SIDE MAINS. ABANDON 12-INCH SEWER ONCE 24-INCH PVC SEWER, SIDE MAINS AND LATERALS ARE CONNECTED. REFER TO PIPE ABANDONMENT DETAIL 2 C-506 AND SPECIFICATION SECTION 051800.

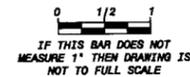
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PH#755	303.36	6.25	16\"/>

SEWER MANHOLE - CONTROL*		
SSMH #	NORTHING	EASTING
SSMH #0	2203185.14	5822680.42
SSMH #1	2203182.37	5822672.93

*(POINT AT CENTER OF MANHOLE BASE)

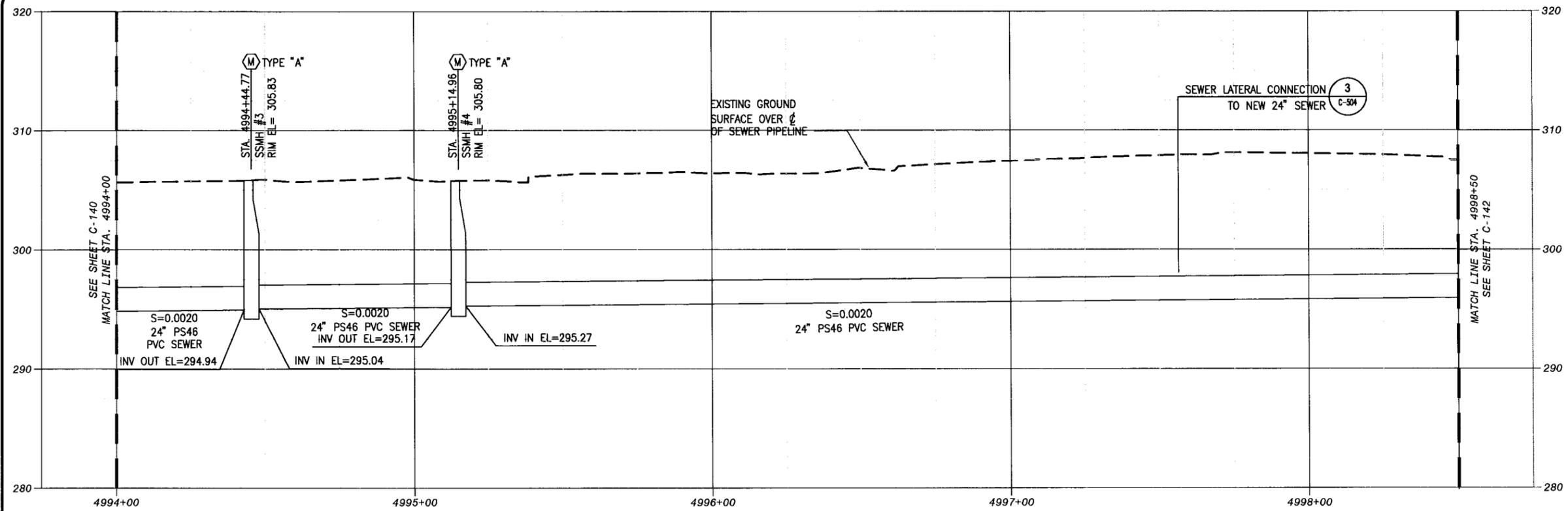
AECOM WATER
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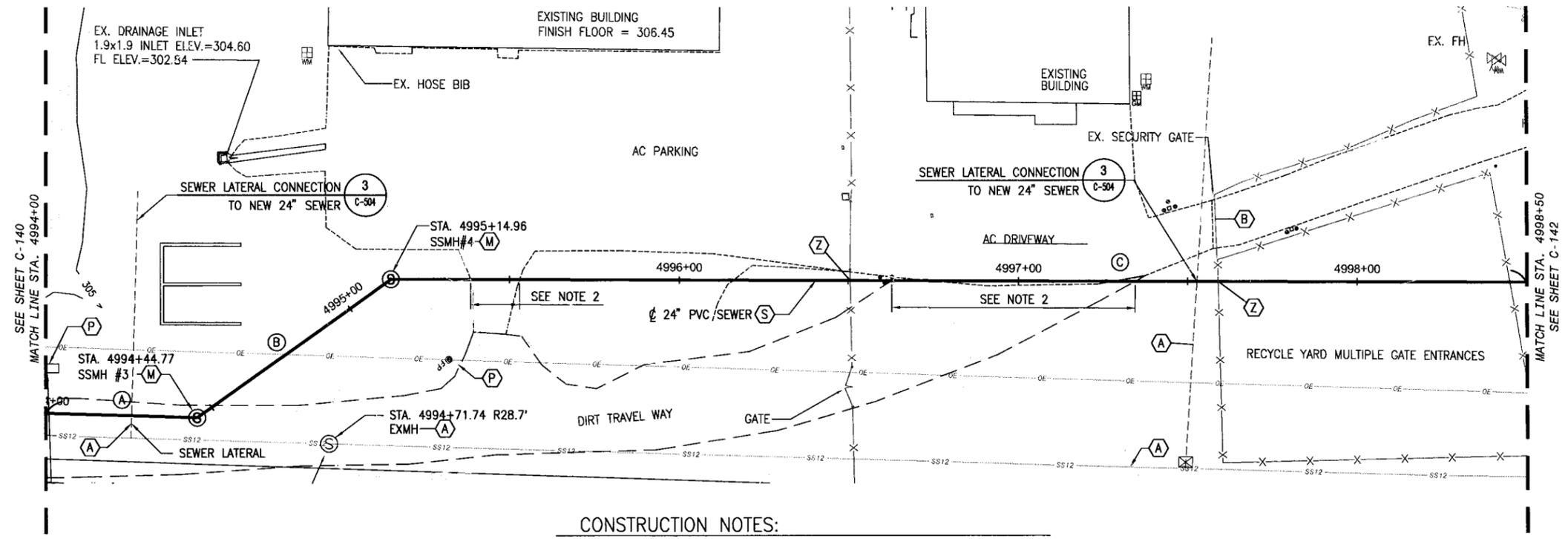


	APPR DATE 09/30/2009 PROJECT ENGINEER JOSHUA H. REYNOLDS REG NUMBER 655400
AECOM AECOM USA, Inc. 20000 Jamboree Road, Suite 204 San Jose, CA 95131 T 865.542.8940 F 865.542.8980 www.aecom.com	
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2 SOUTH FRONTAGE SEWER REPLACEMENT PLAN AND PROFILE STA 4988+14.24 TO 4989+50	
DESIGNED: JHR DETAILED: JPF CHECKED: APPROVED: DATE: APRIL 2010 AECOM PROJECT NO. 60061285 NCSD PROJECT NO.	
CADD STDS. BOYLE/AECOM C-139 SHEET 43 OF 80	

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PROFILE SCALE
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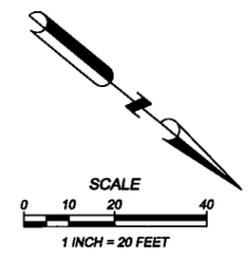
GENERAL CONSTRUCTION SEQUENCE NOTES

- EXISTING 12-INCH SEWER TO REMAIN IN SERVICE DURING CONSTRUCTION OF NEW 24-INCH PVC SEWER AND CONNECTION OF SIDE MAINS. ABANDON 12-INCH SEWER ONCE 24-INCH PVC SEWER, SIDE MAINS AND LATERALS ARE CONNECTED. REFER TO PIPE ABANDONMENT DETAIL AND SPECIFICATION SECTION 015800
- REPAIR EXISTING PAVEMENT PER DETAIL

CONSTRUCTION NOTES:

- (A) ABANDON EXISTING MANHOLE AND/OR SEWER PER DETAIL SEE GENERAL CONSTRUCTION SEQUENCE NOTES.
- (B) MAINTAIN ACCESS TO WWTP DURING CONSTRUCTION. COORDINATE WITH OWNER'S REPRESENTATIVE AND SPECIFICATION SECTION 011100
- (M) PROVIDE AND INSTALL NEW SEWER MANHOLE. TYPE AS INDICATED PER DETAIL
- (P) PROTECT IN PLACE
- (S) 24" PC46 SEWER PIPE PER SPECIFICATION SECTION 333112 AND TRENCH DETAIL
- (Z) RESTORE EXISTING FENCE TO ORIGINAL CONDITION

PIPELINE BEARINGS		
(A)	N 39°17'07.66" W	48.46'
(B)	N 76°1'04.65" W	70.20'
(C)	N 40°43'03.29" W	335.04'



SEWER MANHOLE - CONTROL*		
SSMH #	NORTHING	EASTING
SSMH #3	2203665.19	5822272.76
SSMH #4	2203681.55	5822204.49

* (POINT AT CENTER OF MANHOLE BASE)

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DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET

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 NOT TO FULL SCALE

NIPOMO COMMUNITY SERVICES DISTRICT
WATERLINE INTERTIE PROJECT - BP2
SOUTH FRONTAGE SEWER REPLACEMENT
PLAN AND PROFILE
STA 4994+00 TO 4998+50

DESIGNED: JHR
 DETAILED: JPF
 CHECKED:
 APPROVED:
 DATE: APRIL 2010
 AECOM PROJECT NO.
 80081285
 NCSO PROJECT NO.

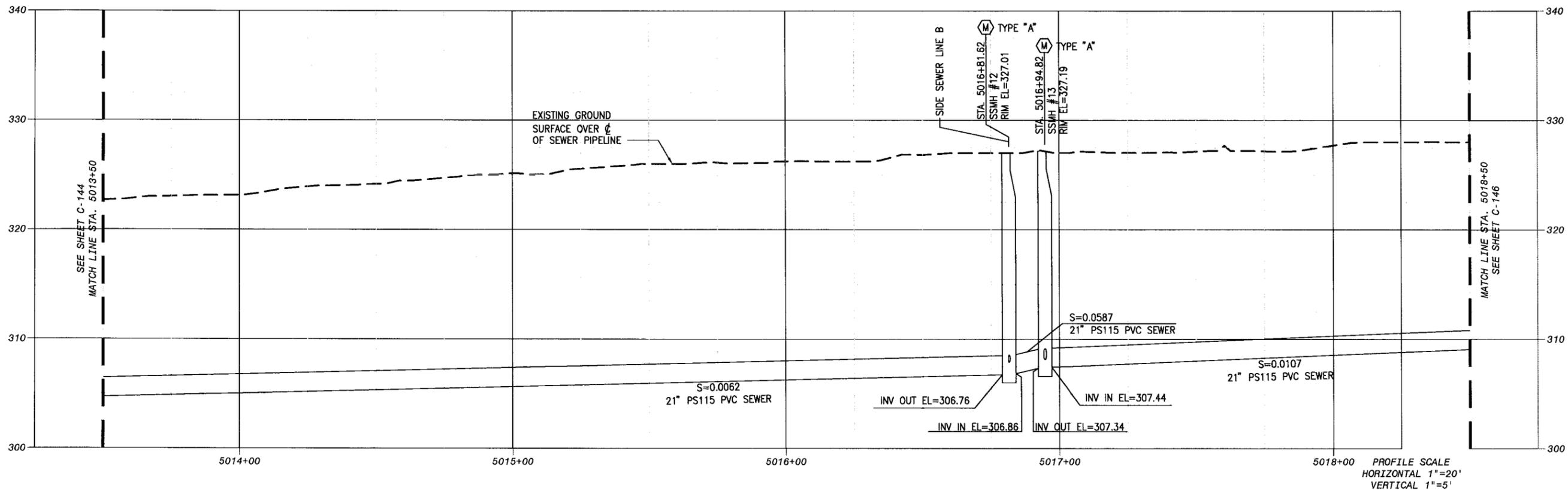
CADD STDS.
 BOYLE/AECOM
C-141
 SHEET
 45 OF 80

AECOM
 18251 JCT. 158
 1124 Pacific Street, Suite 204
 San Luis Obispo, California 93401
 T 805.542.9940 F 805.542.9990
 www.aecom.com

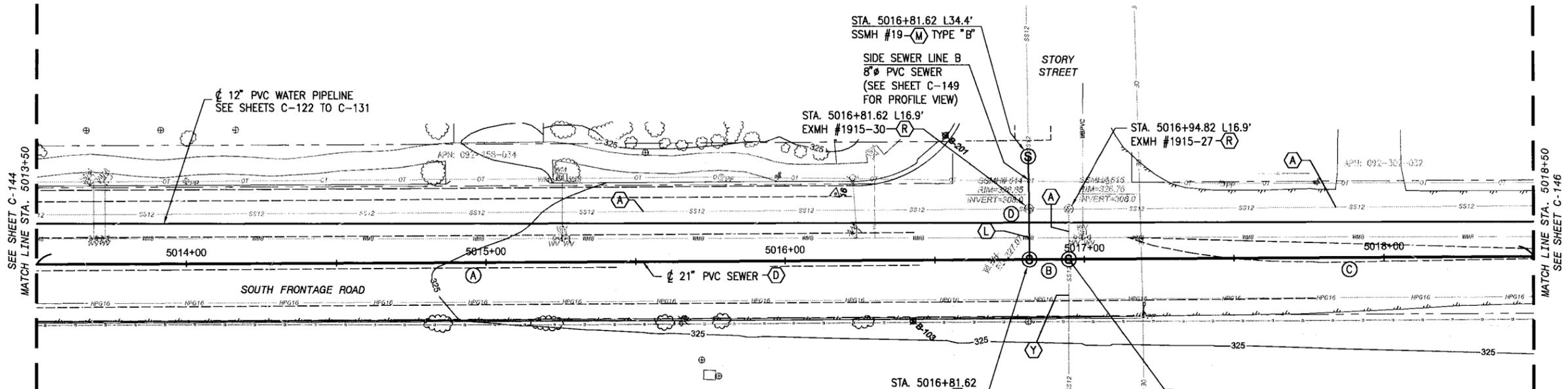
PROFESSIONAL ENGINEER
 JOSHUA H. REYNOLDS
 No. 85400
 Exp. 9/30/11
 CIVIL
 STATE OF CALIFORNIA

APPR
 EXP DATE
 09/30/2009
 DESCRIPTION
 AER NUMBER
 C85400
 PROJECT ENGINEER
 JOSHUA H. REYNOLDS

DWG: W:\Nipomo_CSD (1996) 70 Waterline Interline Project (Design)\Drawings\Plan\SSM\BP-2_NIPOMO_PIPELINE.dwg, Draft Final Planset C-139 to C-150.dwg, Layout Name: C-145 - Picked by: Freichter, jim Date: 5/12/2010 - 7:15 AM
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PROFILE SCALE
HORIZONTAL 1"=20'
VERTICAL 1"=5'



PIPELINE BEARINGS		
(A)	N 40°17'23.66" W	331.62'
(B)	N 40°17'23.66" W	13.20'
(C)	N 40°17'23.66" W	155.18'
(D)	S 49°59'50.46" W	34.44'

SEWER MANHOLE - CONTROL*		
SSMH #	NORTHING	EASTING
SSMH #12	2205355.39	5820858.50
SSMH #13	2205365.47	5820849.96
SSMH #19	2205333.04	5820832.30

* (POINT AT CENTER OF MANHOLE BASE)

CONSTRUCTION NOTES:

- (M) PROVIDE AND INSTALL NEW SEWER MANHOLE. TYPE AS INDICATED PER DETAIL 1 C-505
- (R) REMOVE EXISTING MANHOLE AND ABANDON PIPE PER DETAIL 2 C-506
- (A) ABANDON EXISTING MANHOLE AND/OR SEWER PER DETAIL 1 C-506
- (L) SUPPORT EXISTING CONDUIT ACROSS TRENCH PER DETAIL 2 C-504
- (D) 21" PS115 P.V.C. SEWER PIPE PER SPECIFICATION SECTION 333112 AND TRENCH AND PAVEMENT REPAIR DETAIL 1 C-504

GENERAL CONSTRUCTION SEQUENCE NOTE:

1. EXISTING 12-INCH SEWER TO REMAIN IN SERVICE DURING CONSTRUCTION OF NEW 21-INCH PVC SEWER AND CONNECTION OF SIDE MAINS. ABANDON 12-INCH SEWER ONCE 21-INCH PVC SEWER, SIDE MAINS AND LATERALS ARE CONNECTED. REFER TO PIPE ABANDONMENT DETAIL AND SPECIFICATION SECTION 015800. 2 C-506

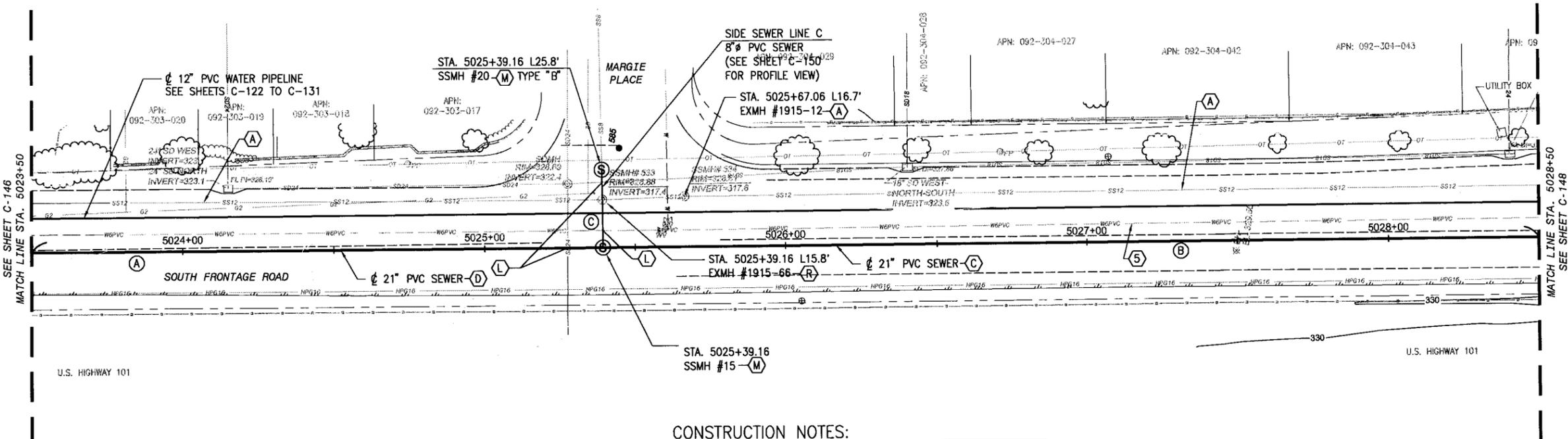
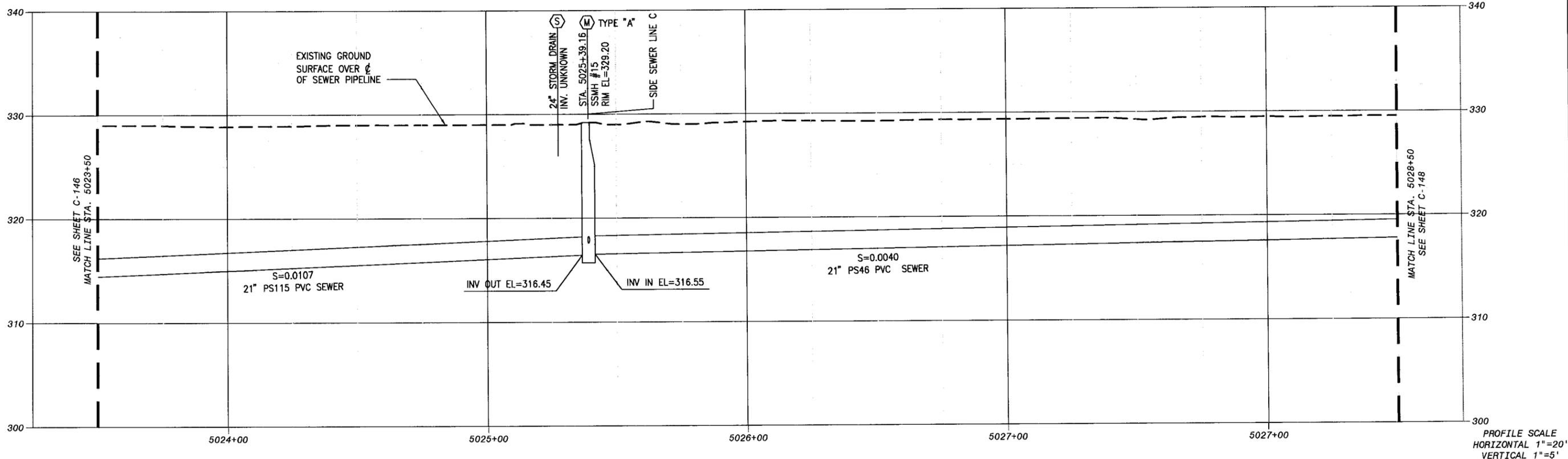
AECOM WATER
FOR PRELIMINARY USE ONLY
NOT TO BE USED FOR CONSTRUCTION

DATE: APRIL 30, 2010
DRAFT FINAL PRELIMINARY DESIGN PLANSSET

0 1/2 1
IF THIS BAR DOES NOT
MEASURE 1" THEN DRAWING IS
NOT TO FULL SCALE

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>APP'D</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REV	DATE	DESCRIPTION	APP'D												
REV	DATE	DESCRIPTION	APP'D														
	<p style="font-size: small;">AECOM USA, Inc. 1194 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9890 www.aecom.com</p>																
<p>NIPOMO</p>																	
<p>NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2 SOUTH FRONTAGE SEWER REPLACEMENT PLAN AND PROFILE STA 5013+50 to 5018+50</p>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: x-small;">DESIGNED: JHR</td> </tr> <tr> <td style="font-size: x-small;">DETAILED: JPF</td> </tr> <tr> <td style="font-size: x-small;">CHECKED:</td> </tr> <tr> <td style="font-size: x-small;">APPROVED:</td> </tr> <tr> <td style="font-size: x-small;">DATE: APRIL 2010</td> </tr> <tr> <td style="font-size: x-small;">AECOM PROJECT NO. 60061295</td> </tr> <tr> <td style="font-size: x-small;">NCS2 PROJECT NO.</td> </tr> <tr> <td style="font-size: x-small;">CADD STDS. BOYLE/AECOM</td> </tr> <tr> <td style="text-align: center;"> <p>C-145 SHEET 49 OF 80</p> </td> </tr> </table>		DESIGNED: JHR	DETAILED: JPF	CHECKED:	APPROVED:	DATE: APRIL 2010	AECOM PROJECT NO. 60061295	NCS2 PROJECT NO.	CADD STDS. BOYLE/AECOM	<p>C-145 SHEET 49 OF 80</p>							
DESIGNED: JHR																	
DETAILED: JPF																	
CHECKED:																	
APPROVED:																	
DATE: APRIL 2010																	
AECOM PROJECT NO. 60061295																	
NCS2 PROJECT NO.																	
CADD STDS. BOYLE/AECOM																	
<p>C-145 SHEET 49 OF 80</p>																	

DWG: W:\Nipomo_CSD (1998)\70 Waterline Interline Project Design\Plan\DWG\Plan\BP-2-NIPOMO PIPELINE_Draft Final Plans\BP-2-NIPOMO PIPELINE - POT HOLES AND UTILITY - Surface - Sections 3-4-5.dwg
 XREFS: ligro points - NCSO-BD-BP2 - E-Utilities - Waterlines - Waterlines - GAL_CDDO_BDRY RD - POT HOLES AND UTILITY - Surface - Sections 3-4-5.dwg
 WARE: NCSO - LOGO-transparent, groyse, smel.dwg
 Date: 5/2/2010 - 7:15 AM
 Plotted by: Frenchie, Jim



Point	Bearing	Distance
(A)	N 40°17'23.66" W	713.16'
(B)	N 40°17'23.66" W	121.00'
(C)	S 49°52'37.66" W	23.33'

SSMH #	NORTHING	EASTING
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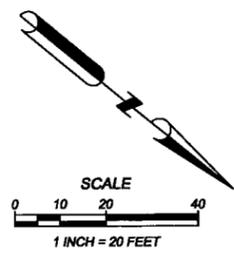
* (POINT AT CENTER OF MANHOLE BASE)

CONSTRUCTION NOTES:

- (M) PROVIDE AND INSTALL NEW SEWER MANHOLE. TYPE AS INDICATED PER DETAIL 1
C-505
- (R) REMOVE EXISTING MANHOLE AND ABANDON PIPE PER DETAIL 2
C-506
- (A) ABANDON EXISTING MANHOLE AND/OR SEWER PER DETAIL 1
C-506
- (L) SUPPORT EXISTING CONDUIT ACROSS TRENCH PER DETAIL 2
C-504
- (D) 21" PS115 P.V.C. SEWER PIPE PER SPECIFICATION SECTION 333112 AND TRENCH AND PAVEMENT REPAIR DETAIL 1
C-504
- (C) 21" PS46 P.V.C. SEWER PIPE PER SPECIFICATION SECTION 333112 AND TRENCH AND PAVEMENT REPAIR DETAIL 1
C-504
- (S) POT HOLE UTILITY PER SPECIFICATION SECTION 023219. SUBMIT WRITTEN POT HOLE REPORT TO OWNER'S REPRESENTATIVE AND NOTIFU OWNER'S REPRESENTATIVE IF CONFLICTS ARE DISCOVERED. 1
C-504

GENERAL CONSTRUCTION SEQUENCE NOTE:

1. EXISTING 12-INCH SEWER TO REMAIN IN SERVICE DURING CONSTRUCTION OF NEW 21-INCH PVC SEWER AND CONNECTION OF SIDE MAINS. ABANDON 12-INCH SEWER ONCE 21-INCH PVC SEWER, SIDE MAINS AND LATERALS ARE CONNECTED. REFER TO PIPE ABANDONMENT DETAIL AND SPECIFICATION SECTION 015800. 2
C-506



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 DATE: APRIL 30, 2010
****DRAFT FINAL PRELIMINARY DESIGN PLANSET****

0 1/2 1
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 MEASURE 1" THEN DRAWING IS
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NIPOMO

**NIPOMO COMMUNITY SERVICES DISTRICT
WATERLINE INTERLINE PROJECT - BP2**

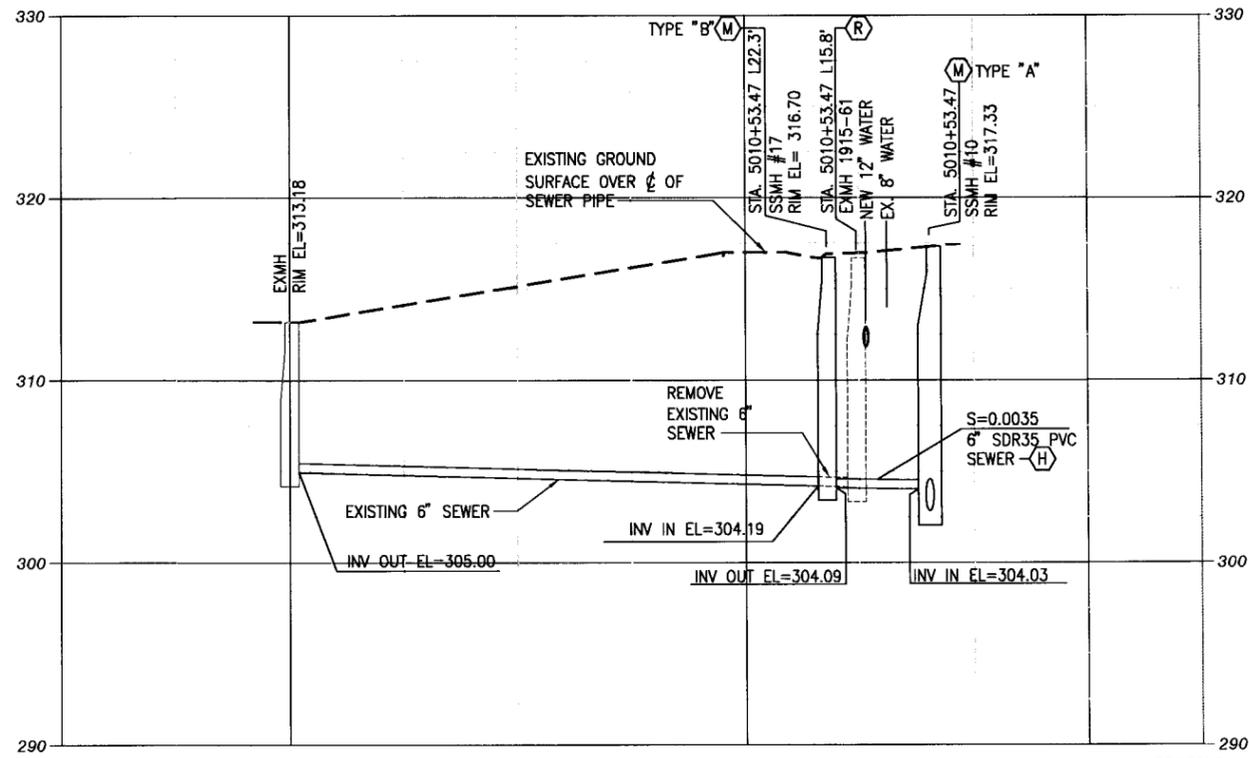
**SOUTH FRONTAGE SEWER REPLACEMENT
PLAN AND PROFILE
STA 5023+50 TO 5028+50**

DESIGNED: JHR	DATE: APRIL 2010	AECOM PROJECT NO. 80081295
DETAILED: JPF		NCSO PROJECT NO.
CHECKED:		CADD STDS. BOYLE/AECOM
APPROVED:		C-147
		SHEET 51 OF 80

APPROVAL
DATE
DESCRIPTION
REG. NO.
PROJECT ENGINEER
REG. NO.
EXP. DATE
09/30/2009

REGISTERED PROFESSIONAL ENGINEER - WATER
NO. 65400
EXP. 9/30/11
JOSHUA H. REYNOLDS

DWG: N:\Nipomo_CSD_1999670\Waterline_Interline_Project_Design\Drawings\Plan\SSM\SSM_BP_2.dwg
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 Date: 5/7/2010 7:15 AM
 Plotted by: F. Reichert, jrm
 Scale: 1"=20'
 Plot Size: 11x17
 Plot Device: HPGL2
 Plot Style: NIPOMO.ctb
 Plot Path: \\NIPOMO-CSD-1999670\NIPOMO-CSD_1999670\Waterline_Interline_Project_Design\Drawings\Plan\SSM\SSM_BP_2.dwg



SIDE SEWER LINE A PROFILE - INDUSTRIAL PARK

1
C-144

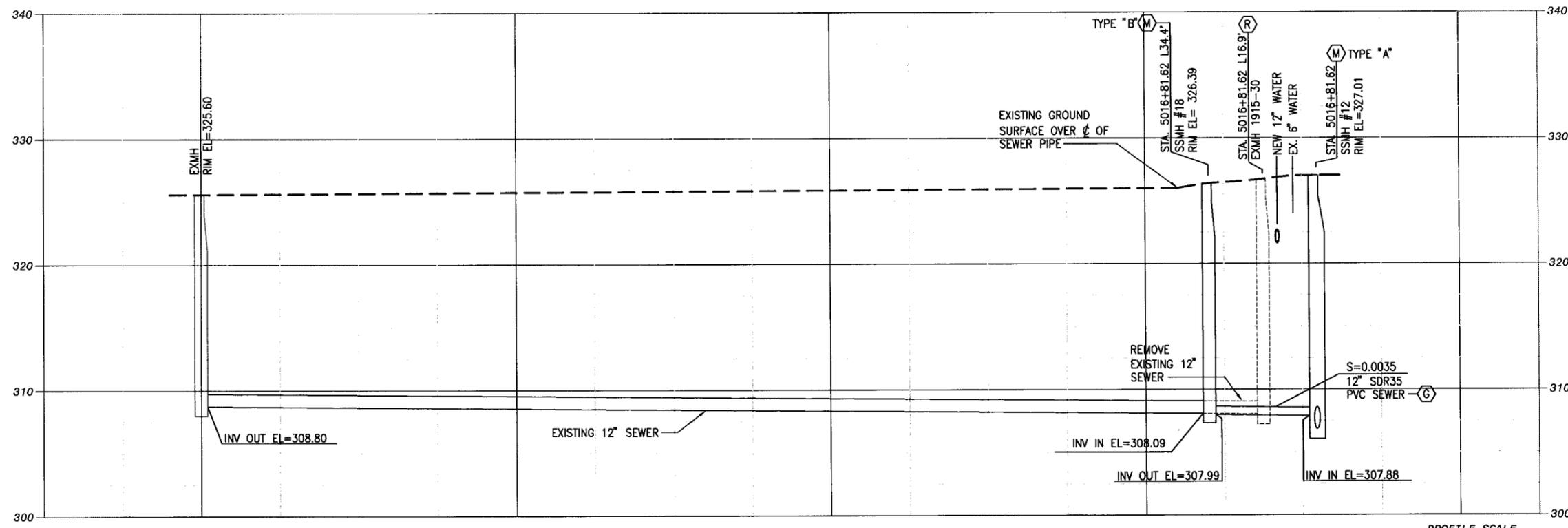
290
PROFILE SCALE
HORIZONTAL 1"=20'
VERTICAL 1"=5'

CONSTRUCTION NOTES:

- (M) PROVIDE AND INSTALL NEW SEWER MANHOLE. TYPE AS INDICATED PER DETAIL 1
C-505
- (R) REMOVE EXISTING MANHOLE AND ABANDON PIPE PER DETAIL 2
C-506
- (H) 6" SDR35 P.V.C. SEWER PIPE PER SPECIFICATION SECTION 333112 AND TRENCH AND PAVEMENT REPAIR DETAIL 1
C-504
- (G) 12" SDR35 P.V.C. SEWER PIPE PER SPECIFICATION SECTION 333112 AND TRENCH AND PAVEMENT REPAIR DETAIL 1
C-504

GENERAL CONSTRUCTION SEQUENCE NOTE:

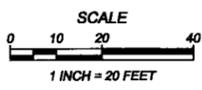
1. EXISTING 12-INCH SEWER TO REMAIN IN SERVICE DURING CONSTRUCTION OF NEW 21-INCH PVC SEWER AND CONNECTION OF SIDE MAINS. ABANDON 12-INCH SEWER ONCE 21-INCH PVC SEWER, SIDE MAINS AND LATERALS ARE CONNECTED. REFER TO PIPE ABANDONMENT DETAIL AND SPECIFICATION SECTION 015800. 2
C-506



SIDE SEWER LINE B PROFILE - STORY STREET

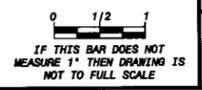
2
C-145

300
PROFILE SCALE
HORIZONTAL 1"=20'
VERTICAL 1"=5'



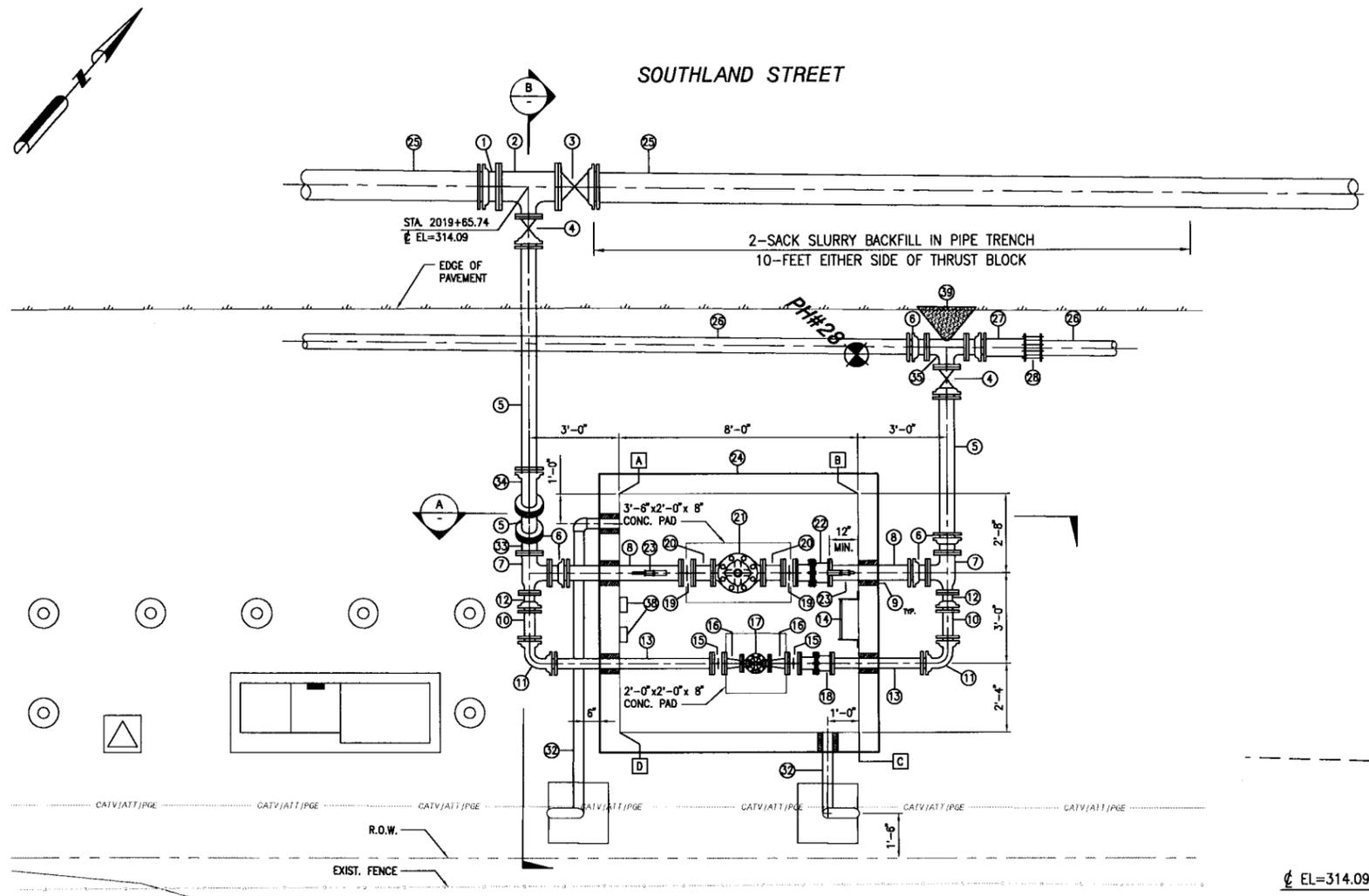
AECOM WATER
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DATE: APRIL 30, 2010
****DRAFT FINAL PRELIMINARY DESIGN PLANSET****



	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>APPR</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>JOSHUA H. REYNOLDS</td> <td>09/30/2009</td> <td>CBS-400</td> </tr> </table>	APPR	DATE	DESCRIPTION	JOSHUA H. REYNOLDS	09/30/2009	CBS-400	
APPR	DATE	DESCRIPTION						
JOSHUA H. REYNOLDS	09/30/2009	CBS-400						
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2								
SIDE SEWER LINE PROFILE VIEWS - 1								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED: JHR</td> </tr> <tr> <td>DETAILED: JPF</td> </tr> <tr> <td>CHECKED:</td> </tr> <tr> <td>APPROVED:</td> </tr> <tr> <td>DATE: APRIL 2010</td> </tr> <tr> <td>AECOM PROJECT NO. 00061295</td> </tr> <tr> <td>NCSD PROJECT NO.</td> </tr> </table>		DESIGNED: JHR	DETAILED: JPF	CHECKED:	APPROVED:	DATE: APRIL 2010	AECOM PROJECT NO. 00061295	NCSD PROJECT NO.
DESIGNED: JHR								
DETAILED: JPF								
CHECKED:								
APPROVED:								
DATE: APRIL 2010								
AECOM PROJECT NO. 00061295								
NCSD PROJECT NO.								
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CADD STDS. BOYLE/AECOM	C-149 SHEET 53 OF 80							

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 WAGES: NCSO-LOGO-Transparenc-Grayscale-animall.jpg
 DESIGNED BY: F. Weidner, jim Date: 5/2/2010 7:21 AM
 CHECKED BY: J. Boyle, jrb Date: 5/2/2010 7:21 AM
 PROJECT ENGINEER: J. Reynolds, jrb Date: 5/2/2010 7:21 AM



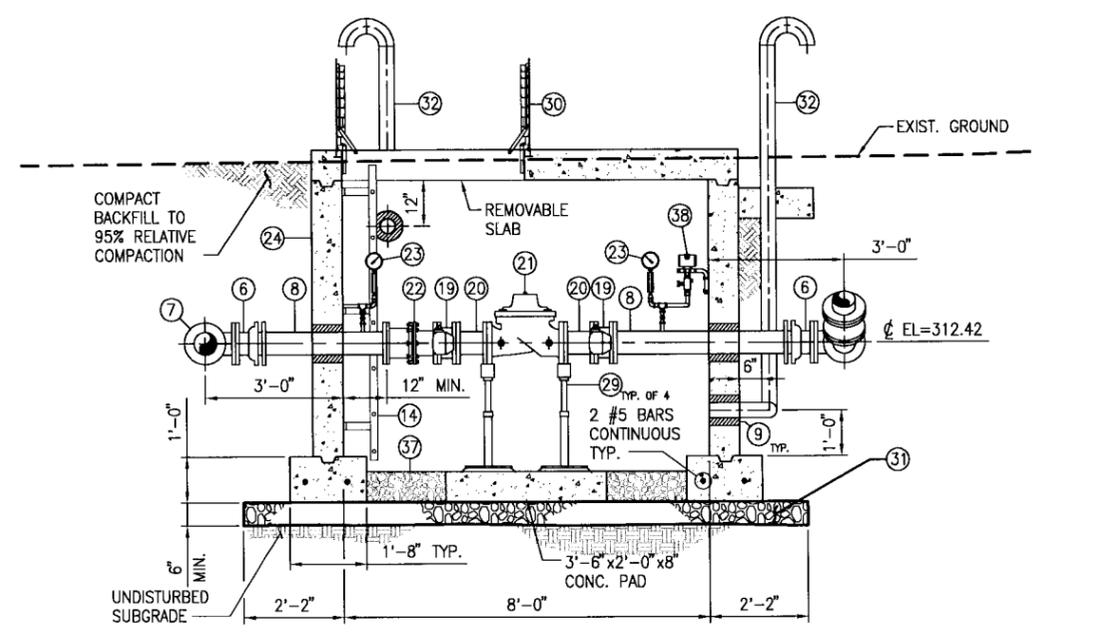
PRESSURE REDUCING VALVE VAULT

SCALE: 3/8"=1'-0"

1
C-117

MATERIALS LIST

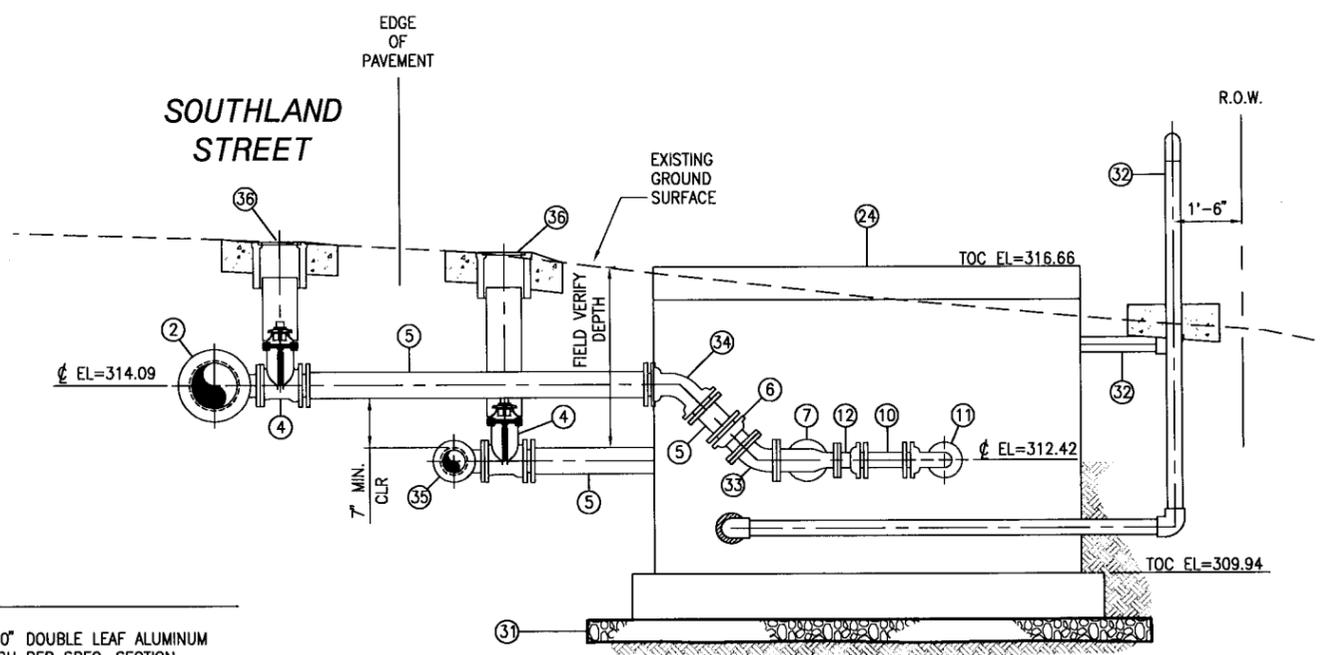
- | | | | |
|---|--|---|--|
| ① 12" RESTRAINED FLANGE ADAPTER | ⑪ 4" 90° ELBOW, MxMJ (RESTRAINED) | ⑳ 6" AC-DIP TRANSITION COUPLING (ROMAC 501) | ④ 4'-0" x 4'-0" DOUBLE LEAF ALUMINUM ACCESS HATCH PER SPEC. SECTION 055300 |
| ② 12"x6" TEE, FLG'D | ⑫ 4" RESTRAINED FLANGE ADAPTER | ㉑ PIPE SUPPORT PER DETAIL | ⑤ 6" 45° ELBOW, FLG'D |
| ③ 12" GATE VALVE, FLGxMJ (RESTRAINED) | ⑬ 4" D.I.P. SPOOL FLGxPE | ㉒ 6" D.I.P. SPOOL, PEXPE | ⑥ 6" 45° ELBOW, MxMJ (RESTRAINED) |
| ④ 6" RESILIENT WEDGE GATE VALVE FLGxMJ (RESTRAINED) | ⑭ LADDER PER DETAIL | ㉓ 6" TEE, FLG'D | ⑦ 6" x6" x4" REDUCING ON RUN TEE |
| ⑤ 6" D.I.P. SPOOL, PEXPE | ⑮ 4" BUTTERFLY VALVE, FLG'D | ㉔ 2 WALL MOUNTED PRESSURE TRANSMITTERS PER DETAIL | ⑧ 6" D.I.P. SPOOL, FLGxPE |
| ⑥ 6" RESTRAINED FLANGE ADAPTER | ⑯ 4" x 2.5" D.I. REDUCER, FLG'D | ㉕ CONCRETE THRUST BLOCK PER CONDITION 6, DETAIL | ⑨ WALL PENETRATION PER DETAIL |
| ⑦ 6" x6" x4" REDUCING ON RUN TEE | ⑰ 2.5" PRESSURE REDUCING VALVE (CLA-VAL 90-01) | | ⑩ 4" D.I.P. SPOOL, PEXPE |
| ⑧ 6" D.I.P. SPOOL, FLGxPE | ⑱ 6" BUTTERFLY VALVE, FLG'D | | |
| ⑨ WALL PENETRATION PER DETAIL | ⑲ 6" BUTTERFLY VALVE, FLG'D | | |
| ⑩ 4" D.I.P. SPOOL, PEXPE | ⑳ 6" x8" D.I.P. SPOOL, FLG'D | | |
| | ㉒ 6" ROMAC DJ405 DISMANTLING JOINT, FLG'D | | |
| | ㉓ 8'-0" x 8'-0" (ID) PRECAST CONCRETE VAULT PER SPECIFICATION SECTION 034220 | | |
| | ㉔ NEW 12" PVC WATER MAIN | | |
| | ㉕ EXISTING 6" A.C. WATER LINE | | |



SECTION VIEW

SCALE: 1/2"=1'-0"

A



SECTION VIEW

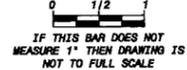
SCALE: 1/2"=1'-0"

B

COORDINATES			
ITEM	NORTHING	EASTING	DESCRIPTION
A	2202784.93	5820584.69	WEST INSIDE CORNER
B	2202790.13	5820590.77	NORTH INSIDE CORNER
C	2202784.05	5820595.97	EAST INSIDE CORNER
D	2202778.85	5820589.89	SOUTH INSIDE CORNER

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DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET



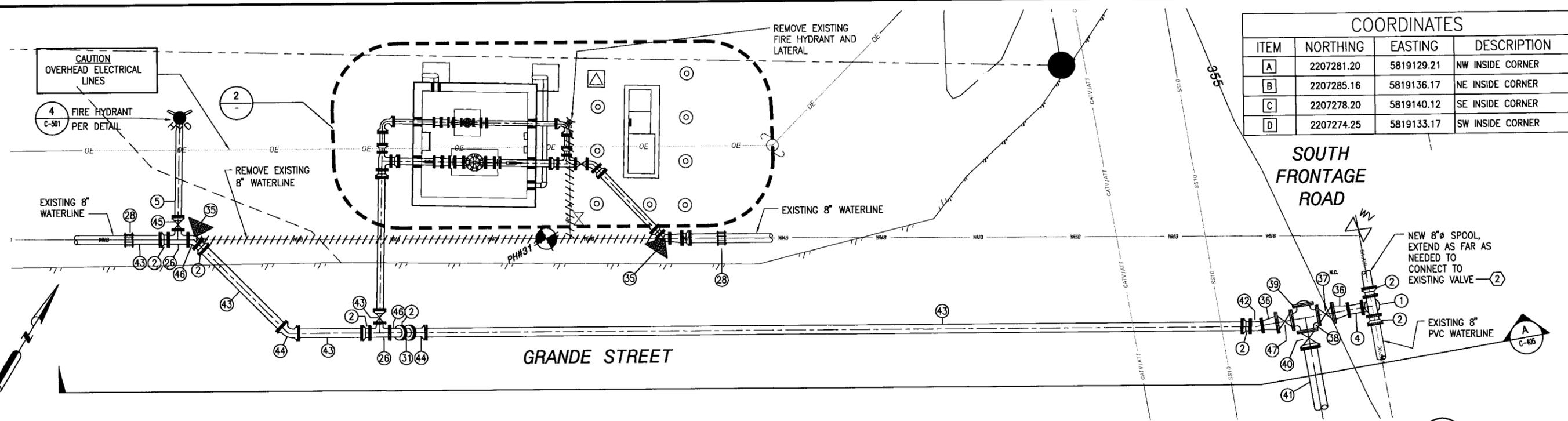
AECOM
 1154 Pacific Street, Suite 204
 San Luis Obispo, California 93401
 T 805.542.9840 F 805.542.9980
 www.aecom.com

NIPOMO
 NIPOMO COMMUNITY SERVICES DISTRICT
 WATERLINE INTERIOR PROJECT - BP2
 SOUTHLAND STREET
 PRV VAULT PLAN & SECTION
 STATION 2019+72+84

DESIGNED: ES	DATE: APRIL 2010
DETAILED: JPF	AECOM PROJECT NO. 60061295
CHECKED:	NCSO PROJECT NO.
APPROVED:	CADD STDS. BOYLE/AECOM

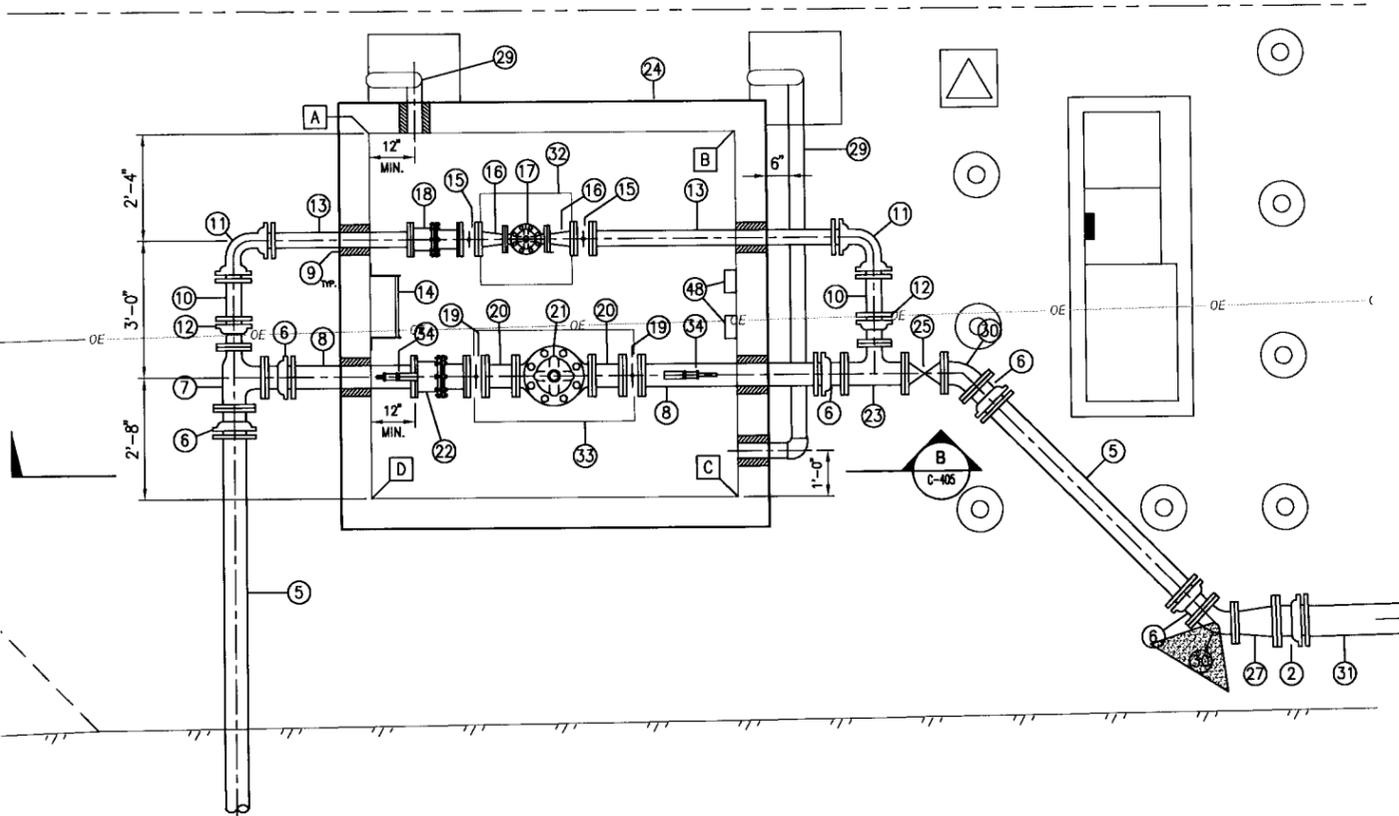
C-403
 SHEET 57 OF 80

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 XREFS: NCSO-BP_2 - Surface-Sections3-4-5 - WallDatabase - Ex-Utilities - PRV_V2 - POT_HOLLS_A02004_V2 - PRV_Sections - WallDatabase - Grand



COORDINATES			
ITEM	NORTHING	EASTING	DESCRIPTION
A	2207281.20	5819129.21	NW INSIDE CORNER
B	2207285.16	5819136.17	NE INSIDE CORNER
C	2207278.20	5819140.12	SE INSIDE CORNER
D	2207274.25	5819133.17	SW INSIDE CORNER

PRESSURE REDUCING VALVE VAULT
SCALE: 1/4" = 1'-0"



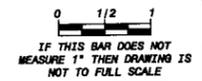
ENLARGED VIEW
SCALE: 1/2" = 1'-0"

MATERIALS LIST

- | | | |
|---|---|--|
| 1 8" TEE, FLG'D | 21 6" PRESSURE REDUCING VALVE (CLA-VAL 90-01) | 35 CONCRETE THRUST BLOCK PER DETAIL |
| 2 8" RESTRAINED FLANGE ADAPTER | 22 6" ROMAC DJ405 DISMANTLING JOINT, FLGxFLG | 36 12"x8" CONCENTRIC REDUCER, FLG'D |
| 3 NOT USED | 23 6"x6"x4" TEE, FLG'D | 37 12" RESILIENT WEDGE GATE VALVE, FLG'D (NORMALLY CLOSED) |
| 4 8" D.I.P. SPOOL, FLG'D | 24 8'-0" X 8'-0" (10) PRECAST CONCRETE VAULT PER SPECIFICATION SECTION 034220 | 38 12" CROSS, FLG'D |
| 5 6" D.I.P. SPOOL, PEXPE | 25 6" RESILIENT WEDGE GATE VALVE, FLG'D | 39 12" BLIND FLANGE |
| 6 6" RESTRAINED FLANGE ADAPTER | 26 8"x6" TEE, FLG'D | 40 12" RESILIENT WEDGE GATE VALVE, MJxFLG, RESTRAINED |
| 7 6"x6"x4" REDUCING ON RUN TEE, FLG'D | 27 8"x6" CONCENTRIC REDUCER, FLG'D | 41 NEW 12" PVC WATER MAIN |
| 8 6" D.I.P. SPOOL, FLGxPE | 28 8" TRANSITION COUPLING (ROMAC 501) | 42 8" 11.25" ELBOW, FLG'D |
| 9 WALL PENETRATION PER DETAIL | 29 4" AIR VENT PER DETAIL | 43 8" DR-14 C900 P.V.C. PER SPECIFICATION SECTION 402092 AND DETAIL 3/C-503 (RESTRAINED, SEE NOTE 1) |
| 10 4" D.I.P. SPOOL, PEXPE | 30 6" 45" ELBOW, FLG'D | 44 8" 45" ELBOW, MJxMJ (RESTRAINED) |
| 11 4" 90° ELBOW, MJxMJ (RESTRAINED) | 31 8" D.I.P. SPOOL, PEXPE | 45 6" RESILIENT WEDGE GATE VALVE, MJxFLG |
| 12 4" RESTRAINED FLANGE ADAPTER | 32 2'-0" x 2'-0" x 8" CONCRETE PAD | 46 8" 45" ELBOW, FLG'D |
| 13 4" D.I.P. SPOOL FLGxPE | 33 3'-6" x 2'-0" x 8" CONCRETE PAD | 47 12" RESILIENT WEDGE GATE VALVE, FLG'D |
| 14 LADDER PER DETAIL | 34 1/2" PRESSURE GAUGE AND TRANSMITTER PER DETAIL | 48 WALL MOUNTED PRESSURE TRANSMITTER PER DETAIL |
| 15 4" BUTTERFLY VALVE, FLG'D | | |
| 16 4" x 2.5" D.I. REDUCER, FLG'D | | |
| 17 2.5" PRESSURE REDUCING VALVE (CLA-VAL 90-01) | | |
| 18 4" ROMAC DJ405 DISMANTLING JOINT, FLGxFLG | | |
| 19 6" BUTTERFLY VALVE, FLG'D | | |
| 20 6" D.I.P. SPOOL, FLG'D | | |

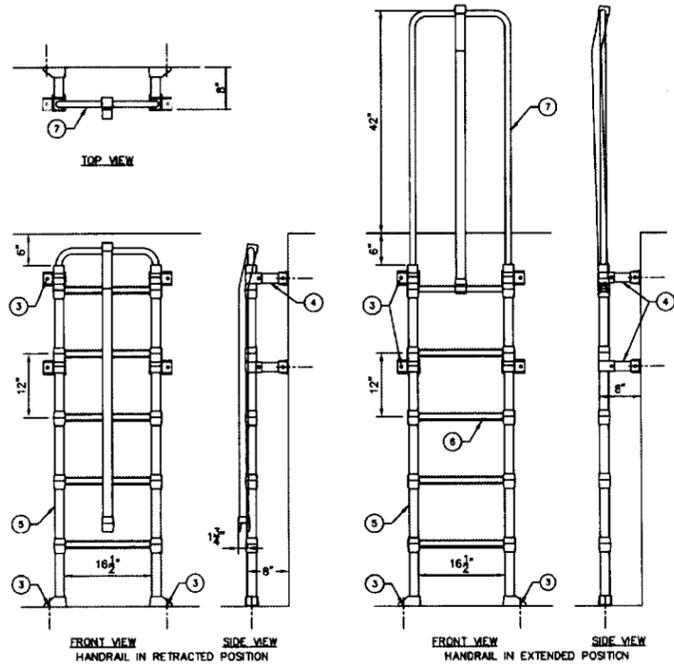
- NOTES:**
- INSTALL RESTRAINED JOINT PIPE AND FITTINGS PER SPECIFICATION SECTION 402040.
 - NOTIFY NCSO STAFF PRIOR TO INTERRUPTION OF SERVICE. INTERRUPTION OF SERVICE SHALL BE COORDINATED WITH NCSO AND DURATION SHALL BE MINIMIZED.

AECOM WATER
FOR PRELIMINARY USE ONLY
 NOT TO BE USED FOR CONSTRUCTION
 DATE: APRIL 30, 2010
 "DRAFT FINAL PRELIMINARY DESIGN PLANSET"



<p>APPROVED: _____ PROJECT ENGINEER: JOSHUA H. REYNOLDS PROJECT NUMBER: C85400 DATE: 08/30/2009</p>	<p>DESIGNED: ES DETAILED: JPF CHECKED: APPROVED: DATE: APRIL 2010 AECOM PROJECT NO.: 60061295 NCSO PROJECT NO.:</p>
<p>NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERIE PROJECT - BP2</p>	
<p>GRANDE STREET PRV VAULT PLAN VIEW</p>	
<p>CADD STDS. BOYLE/AECOM C-404 SHEET 58 OF 80</p>	

DWG: N:\Nipomo_CSD (19996)\19996\10 Waterline Inertie Project Design\Inertie Plans\CAD\Nipomo\BP-2_MPOWD PIPELINE_Draft_Final_Planset\C-407.dwg Layout Name: C-407 - Plotted by: Freiflicher, Jim Date: 5/3/2010 7:24 AM
 XREFS: NCSO-80_BP2 IMAGES: RETAINING WALL.dwg - wallretaining - NCSO 1000-transparent_graphics_small.dwg -



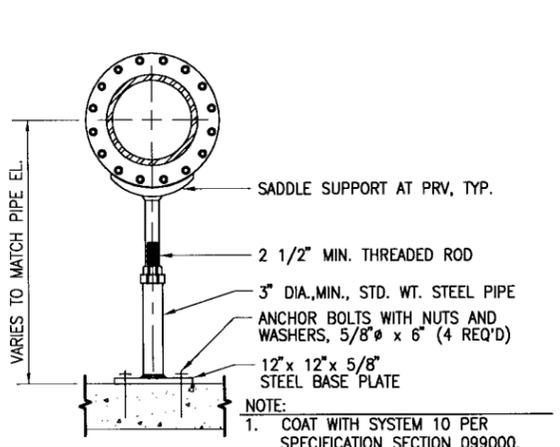
LANE POLYPROPYLENE VAULT LADDER WITH PULL-UP HANDRAIL

- NOTES:
- LADDERS WITH PULL-UP HANDRAIL AVAILABLE IN 5 RUNG THROUGH 25 RUNG.
 - POLYPROPYLENE CONFORMS TO ASTM D-4101. LADDERS MEET ALL ASTM C-497 LOAD REQUIREMENTS AND OSHA 1910.26 AND 1910.27 SPECIFICATIONS.
 - FASTEN LADDER TO FLOOR AND WALL WITH 1/2" x 3-3/4" ANCHORS. ANCHORS TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
 - STANDARD ADJUSTABLE MOUNTING BRACKET - 8" O.D.
 - ALUMINUM REINFORCED COPOLYMER POLYPROPYLENE RAIL 1-3/4" x 1-3/4" DIA.
 - STEEL REINFORCED COPOLYMER POLYPROPYLENE RUNG 1-5/8" x 1-1/4" DIA. WITH MOLDED FINGER GRIPS, 12" C.C.
 - ALUMINUM AND STEEL REINFORCED COPOLYMER POLYPROPYLENE PULL-UP HANDRAIL.

LADDER DETAIL

NOT TO SCALE

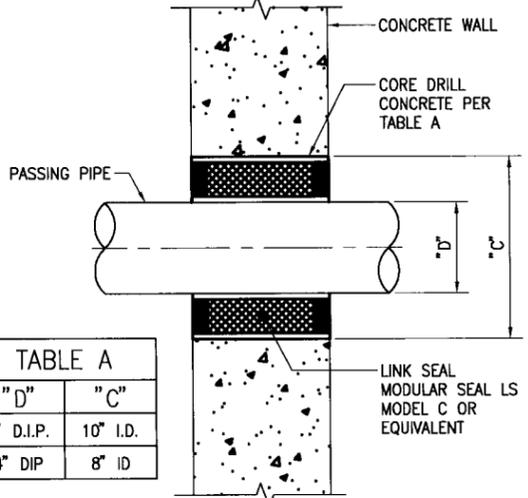
1



PIPE SUPPORT

NOT TO SCALE

2



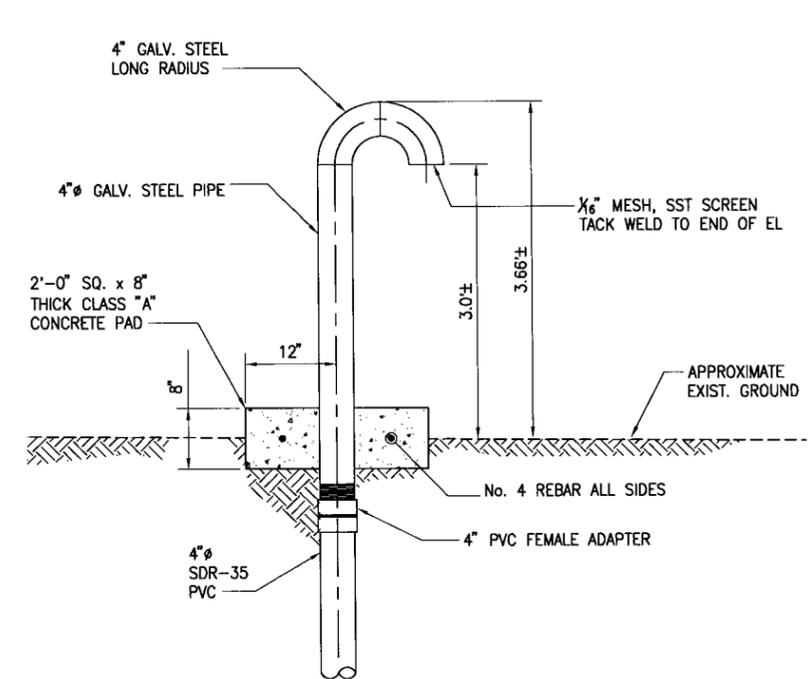
WALL PENETRATION

NOT TO SCALE

3

TABLE A	
"D"	"C"
6" D.I.P.	10" I.D.
4" DIP	8" ID

- NOTE:
- COAT WITH SYSTEM 10 PER SPECIFICATION SECTION 099000.
 - BOLTS, NUTS, AND WASHERS SHALL BE TYPE 316, STAINLESS STEEL.

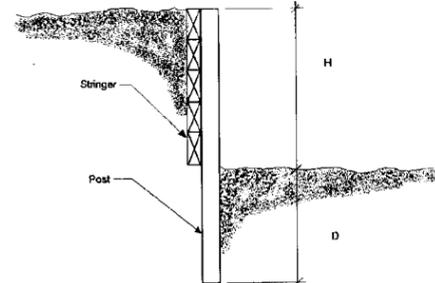


4"Ø AIR VENT

NOT TO SCALE

4

Wood Retaining Walls

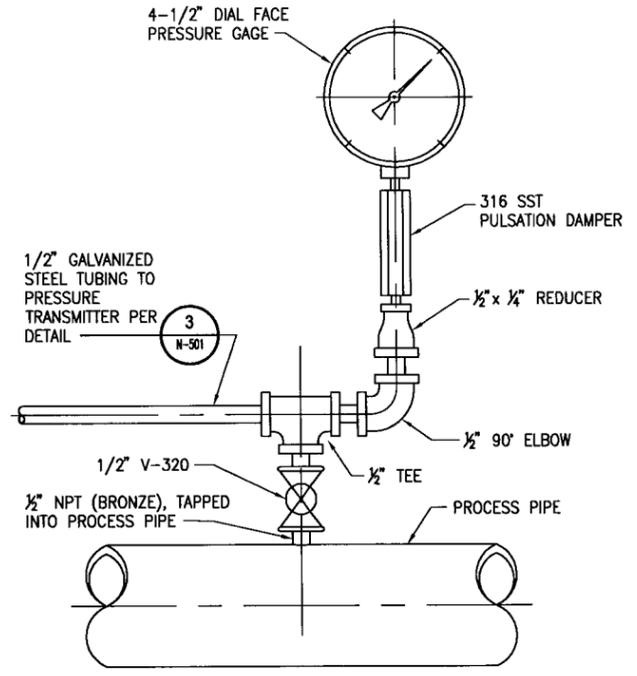


Materials: Pressure treated Douglas Fir no. 2

H	Post @ 6 FT. O.C.			Post @ 4 FT. O.C.		
	Post Size	Stringers D	Stringers	Post Size	D	Stringer
3 FT.	6 x 6	5 FT.	2 x 10, 3 x 8	6 x 6	4 FT.	2 x
	4 x 4	6 FT.		4 x 4	5 FT.	
2 FT.	6 x 6	4 FT.	2 x 8, 3 x 6	6 x 6	3' - 3"	2 x
	4 x 4	5 FT.		4 x 4	4 FT.	

- Notes:
- Where a particular stringer size is given, a larger member of the same thickness may be used. Example: 2 x 10 or 2 x 12 may be used where chart calls for 2 x 8.
 - In all cases, use minimum 6 inch wide stringer.
 - Wall design is for level backfill with no surcharge. Adequate means for drainage should be provided.

San Luis Obispo County Planning and Building Department
 Wood Retaining Walls
 Page 1 of 1
 August 2, 2005



PRESSURE GAUGE AND PRESSURE TRANSMITTER MOUNTING (PIPE)

NOT TO SCALE

7

- NOTES:
- SST = TYPE 316 STAINLESS STEEL
 - UNLESS NOTED OTHERWISE PIPE TO BE BRONZE

NOT USED

NOT TO SCALE

5

SLO COUNTY RETAINING WALL STANDARD

NOT TO SCALE

6

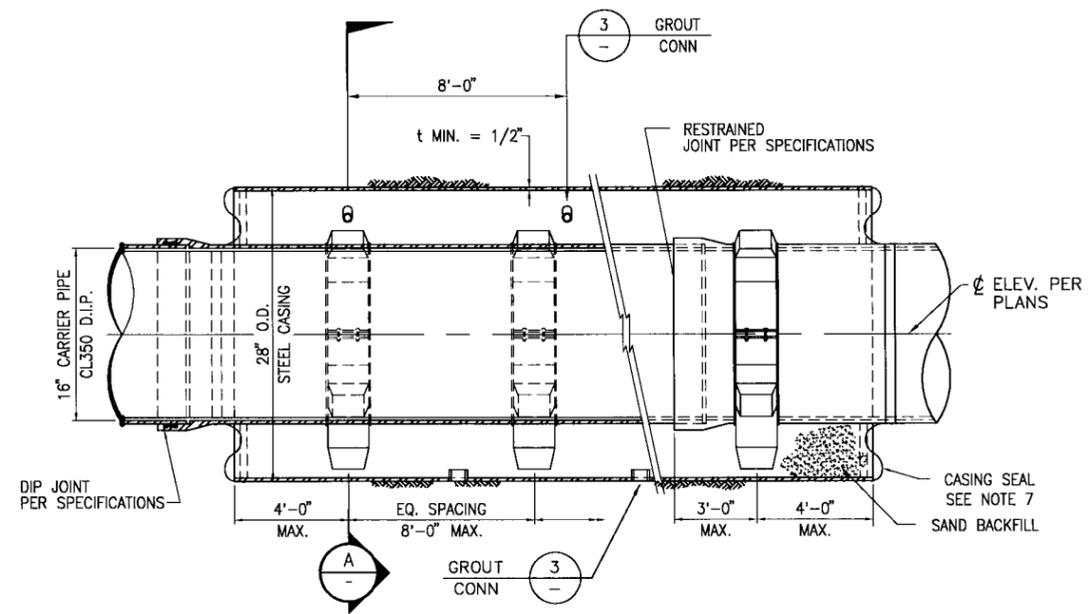
AECOM WATER
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DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET

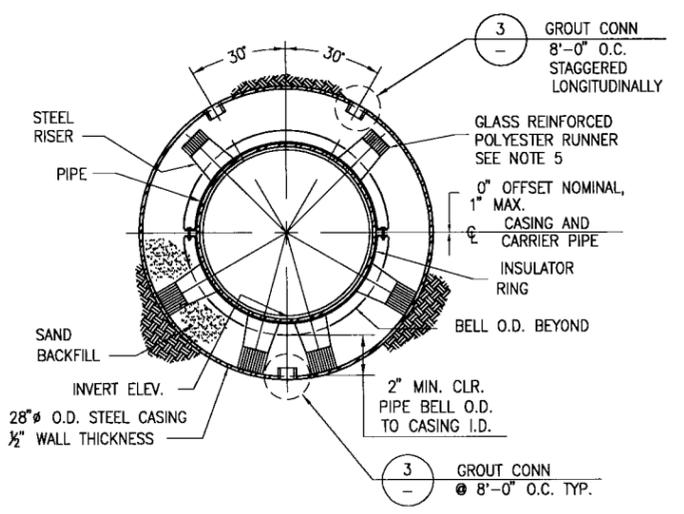
0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INERTIE PROJECT - BP2
 PROJECT ENGINEER: JOSHUA H. RETNOLUS
 PROJECT NUMBER: C86-400
 DATE: 08/30/2008
 APPR: [Signature]
 DESIGNED: ES
 DETAILED: JPF
 CHECKED: [Signature]
 APPROVED: [Signature]
 DATE: APRIL 2010
 AECOM PROJECT NO.: 60061295
 NCSO PROJECT NO.:
 CADD STDS. BOYLE/AECOM
C-407
 SHEET 61 OF 80

DWG: N:\Nipomo_CSD (19996) 19996.70 Waterline Interline Project Design\Detailing\Drawings\2_NIPOMO_FIRE\ASB\C-501.dwg Plot Date: 5/13/2010 7:24 AM
 DESIGNED: CR DETAILED: JPF CHECKED: JPF APPROVED: DATE: APRIL 2010 AECOM PROJECT NO. 00081295 NCSO PROJECT NO. CADD STDS. BOYLE/AECOM SHEET 62 OF 80



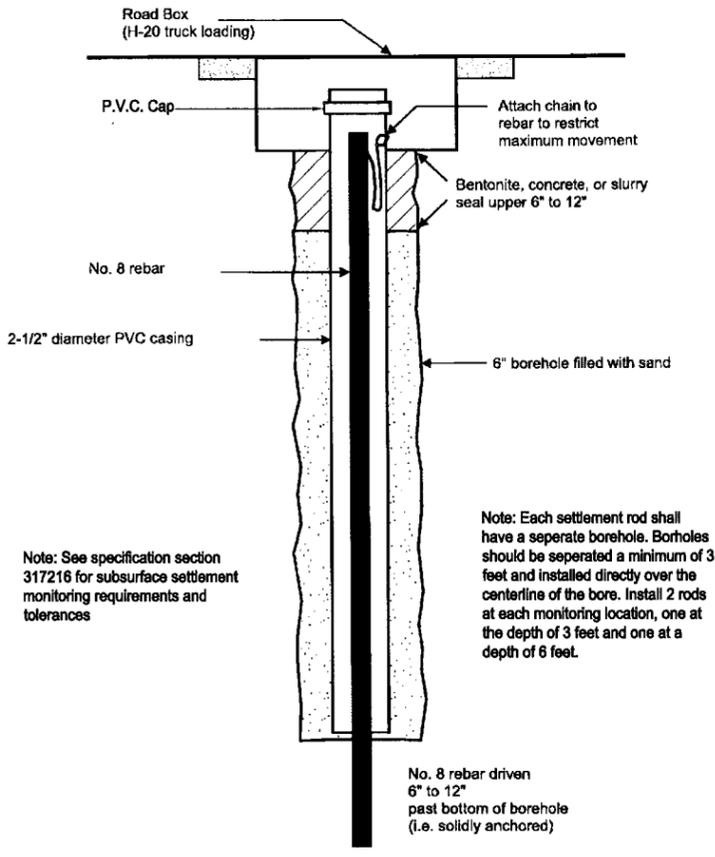
JACKED CASING
NOT TO SCALE



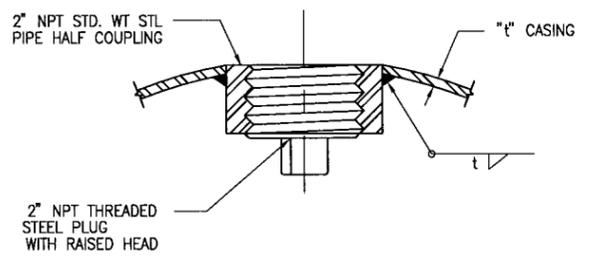
CASING SECTION
NOT TO SCALE

JACK CASING AND CASING SECTION NOTES:

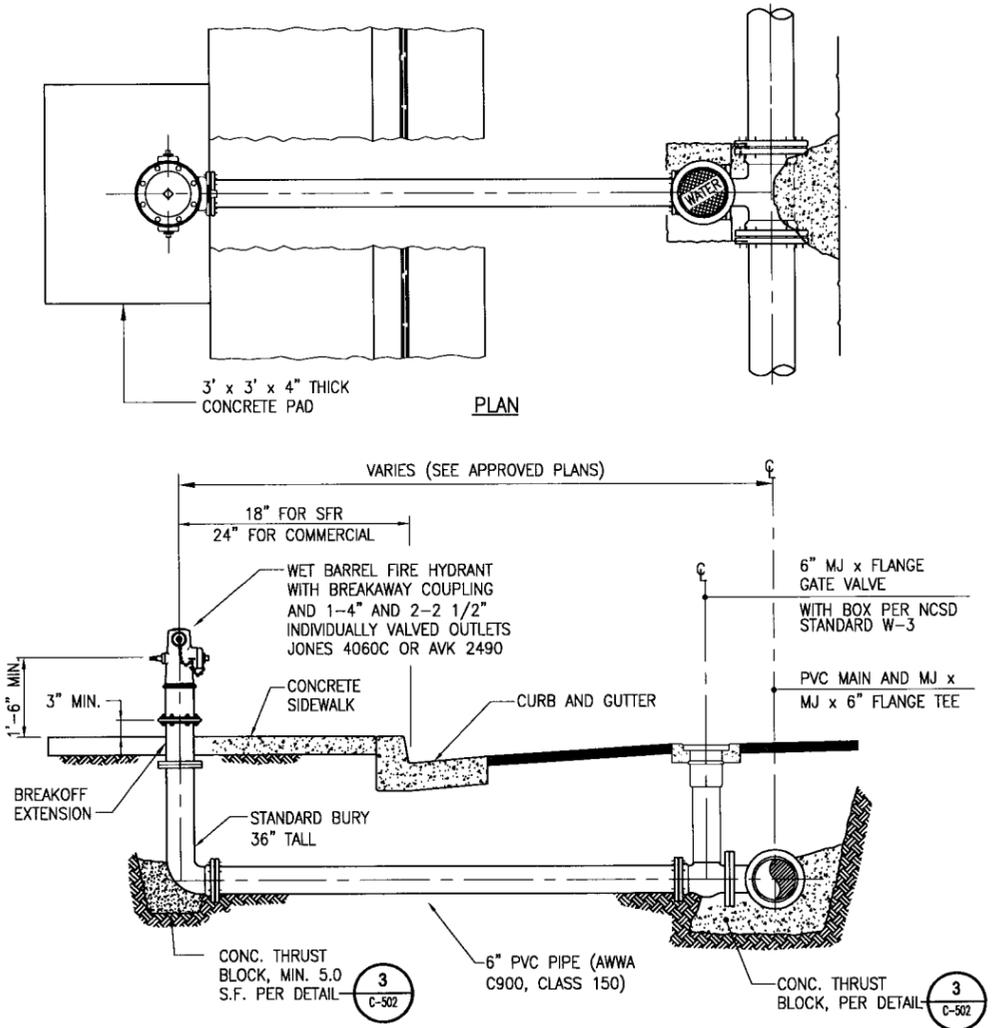
1. JACKED STEEL CASINGS SHALL BE IN CONFORMANCE WITH SPECIFICATION SECTION 317216.
2. USE BENTONITE AS REQ'D TO REDUCE JACKING FORCE.
3. ALL STEEL CASING SECTIONS SHALL BE JOINED BY CONTINUOUS WELDING PROCESS.
4. ALL CARRIER PIPE JOINTS WITHIN CASING SHALL BE RESTRAINED PER SPECIFICATION SECTION 402040.
5. FOR NUMBER AND SPACING OF CASING RUNNERS, SEE SPEC. SECTION 317216.
6. BACKFILL ANNULAR SPACE BETWEEN CASING AND CARRIER PIPE WITH SAND PER SPECIFICATION SECTION 317216.
7. EACH END OF A CASING SHALL BE FITTED WITH AN END SEAL, INSTALLED AS SHOWN AND SECURELY FASTENED WITH S.S. CLAMPS. THE END SEAL SHALL BE A MIN. 1/8" THICK NEOPRENE.



SETTLEMENT ROD DETAIL
NOT TO SCALE



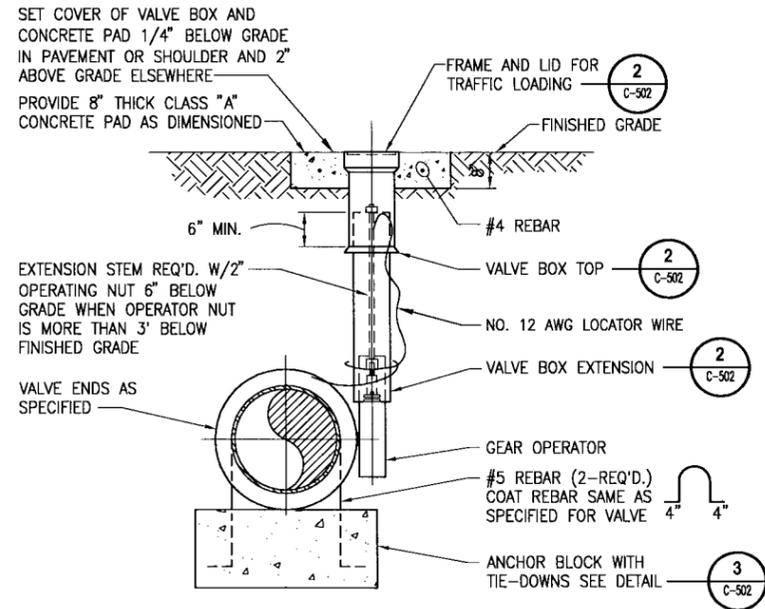
JACK CASING GROUT CONNECTION
NOT TO SCALE



N.C.S.D. FIRE HYDRANT ASSEMBLY
NOT TO SCALE

APPR	DATE	09/30/2009
DESCRIPTION	PROJECT NUMBER	CBS-400
DESIGNED	DATE	
PROJECT ENGINEER	DATE	
JOSHUA H. REYNOLDS	DATE	
REGISTERED ENGINEER	STATE OF CALIFORNIA	
NO. 65400	EXPIRES 9/30/11	
1154 Pacific Street, Suite 204	San Luis Obispo, California 93401	
T 805.542.9940	F 805.542.9990	
www.aecom.com		
AECOM		
NIPOMO		
NIPOMO COMMUNITY SERVICES DISTRICT		
WATERLINE INTERLINE PROJECT - BP2		
WATER PIPELINE DETAILS - 1		
DESIGNED: CR		
DETAILED: JPF		
CHECKED: JPF		
APPROVED:		
DATE: APRIL 2010		
AECOM PROJECT NO. 00081295		
NCSO PROJECT NO.		
CADD STDS. BOYLE/AECOM		
C-501		
SHEET 62 OF 80		

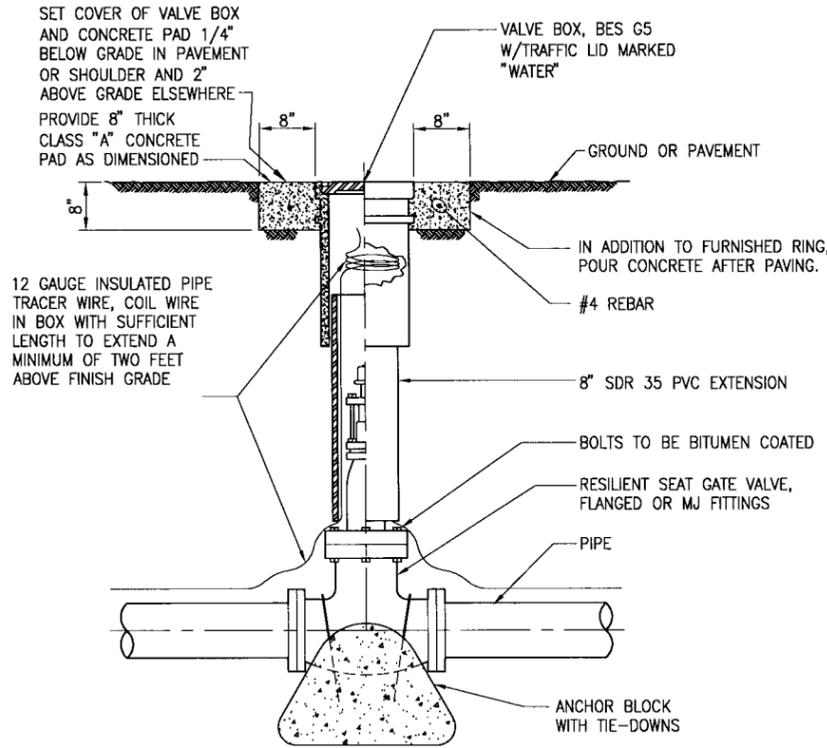
0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE



- NOTES:
1. VALVE BOX REQUIRED AT ALL BURIED VALVES.
 2. ANCHOR BLOCK IS REQUIRED AT ALL INLINE VALVES.
 3. WHEN LOOKING UP STATION VALVE OPERATOR SHALL BE ON THE RIGHT SIDE OF PIPE.

BURIED BUTTERFLY VALVE BOX SETTING

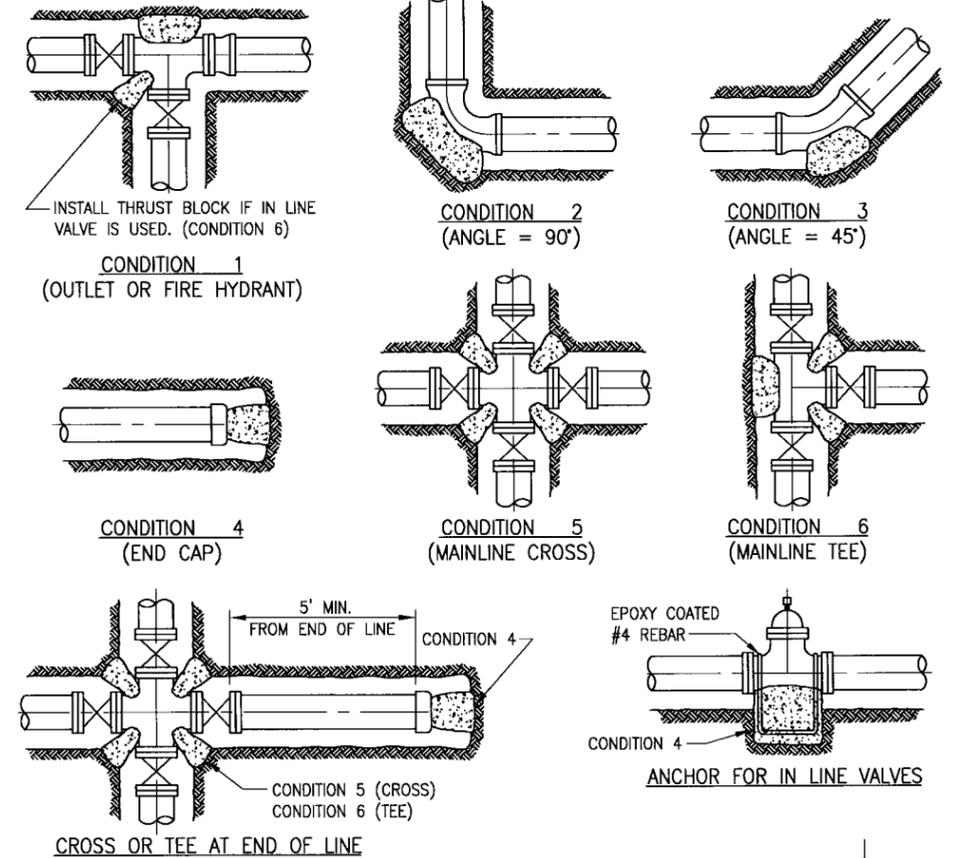
NOT TO SCALE



SECTION - ELEVATION

N.C.S.D. VALVE BOX ASSEMBLY

NOT TO SCALE



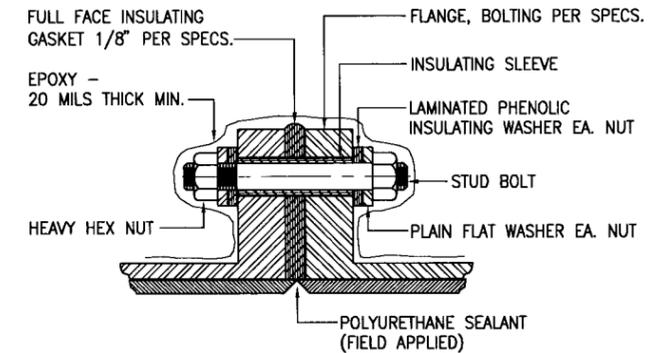
PIPE SIZE	THRUST BLOCK BEARING AREA IN SQ. FT.					
	1	2	3	4	5	6
6"	5.0	7.0	4.0	5.0	3.5 EACH	3.5 EACH
8"	8.5	12.0	6.5	8.5	6.0 EACH	6.0 EACH
10"	13.0	18.5	10.0	13.0	9.0 EACH	9.0 EACH
12"	18.5	26.0	14.0	18.5	13.0 EACH	13.0 EACH

BASED ON 1500 P.S.F., 200 P.S.I. TEST PROCEDURE

- NOTES:
1. SIZE THRUST BLOCK ACCORDING TO THE LARGEST OUTLET DIAMETER ON TEE OR CROSS.
 2. ALL THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED MATERIAL.
 3. SEE SPECIFICATIONS FOR CONCRETE REQUIREMENTS.

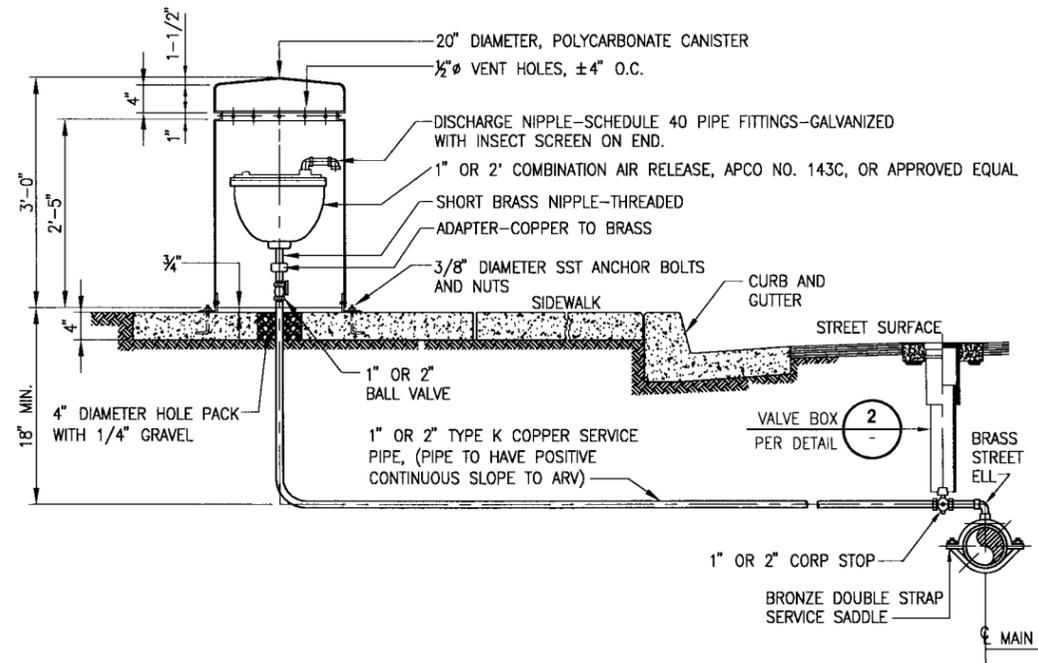
N.C.S.D. TYPICAL THRUST BLOCK DETAILS

NOT TO SCALE



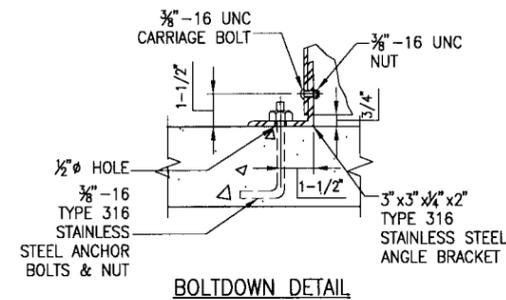
INSULATION FLANGE

NOT TO SCALE

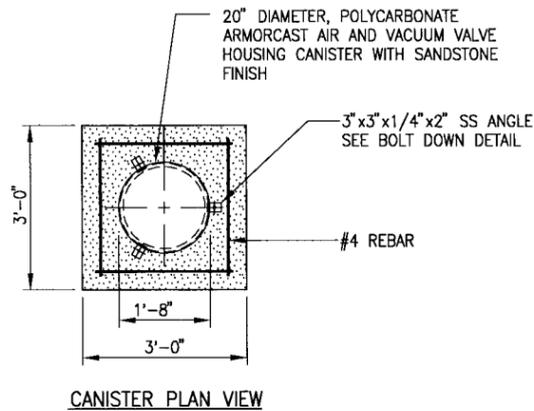


N.C.S.D. 1" & 2" COMBINATION AIR RELEASE VALVE ASSEMBLY

NOT TO SCALE



BOLT DOWN DETAIL



CANISTER PLAN VIEW

AECOM WATER
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 NOT TO BE USED FOR CONSTRUCTION

DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET

0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

APPROVED: APRIL 30, 2010
 PROJECT ENGINEER: JUSTIN H. REYNOLDS
 PROJECT NUMBER: C05400
 EXPIRE DATE: 09/30/2009

REGISTERED PROFESSIONAL ENGINEER - CIVIL
 No. 65400
 Exp. 9/30/11
 JUSTIN H. REYNOLDS

AECOM
 11550 Wilshire Blvd., Suite 204
 Los Angeles, CA 90048
 T: 805.542.9940 F: 805.542.9990
 www.aecom.com

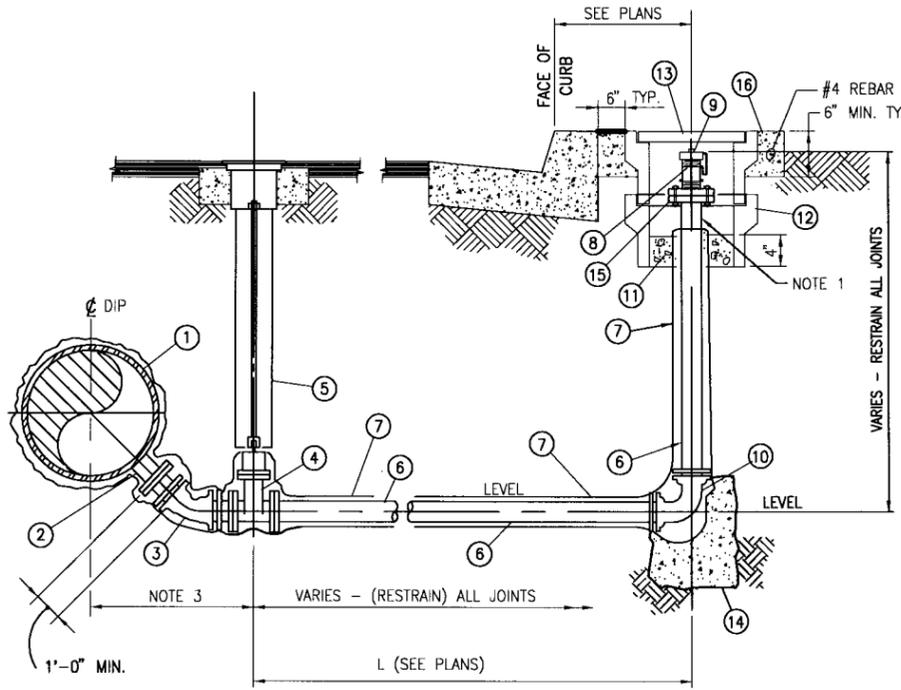
NIPOMO
 NIPOMO COMMUNITY SERVICES DISTRICT
 WATERLINE INTERIE PROJECT - BP2

DESIGNED: JR
 DETAILED: JPF
 CHECKED:
 APPROVED:
 DATE: APRIL 2010
 AECOM PROJECT NO. 60061295
 NCSD PROJECT NO.
 CADD STDS. BOYLE/AECOM

WATER PIPELINE DETAILS - 2

C-502
 SHEET 63 OF 80

DWG: W:\Projects\CSD (19998)\19998 TO Waterline Interline Project Design Plans\CA\Plan\BP-2_WPOMD PIPELINE\Drawn Final Planset\C-503.dwg Layout Name: C-503 - Plotted by: Friebecher, Jim Date: 5/3/2010 - 7:25 AM
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 MAGES: NCS3-UD00-comparative_proposal_anno.dwg

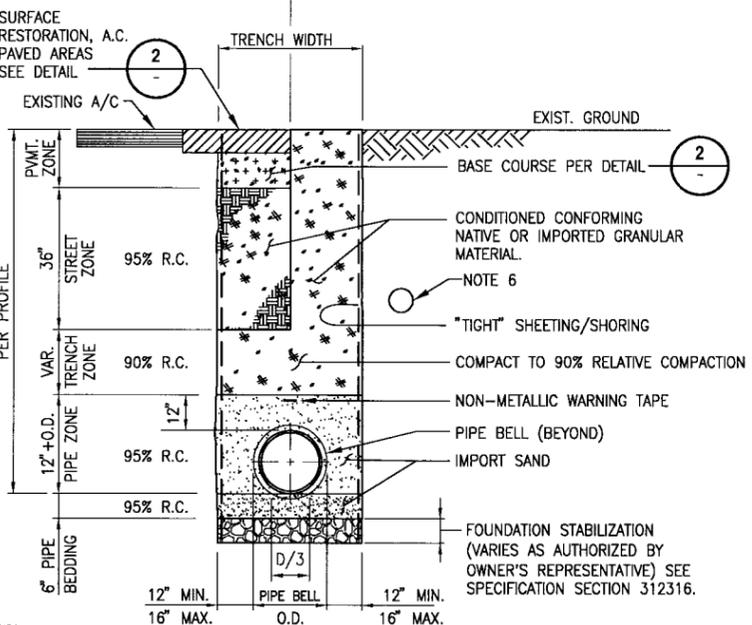


ITEM	DESCRIPTION
1	WATERMAIN
2	FLANGED OUTLET
3	DIP MJ 45° ELBOW WITH RESTRAINED JOINTS
4	GATE VALVE, RESILIENT WEDGE
5	VALVE BOX INSTALLATION FOR BURIED VALVES PER W-3
6	4\"/>

- NOTES:**
1. WATERMANS WITH A DIAMETER GREATER THAN 12\"/>

N.C.S.D. BLOWOFF ASSEMBLY

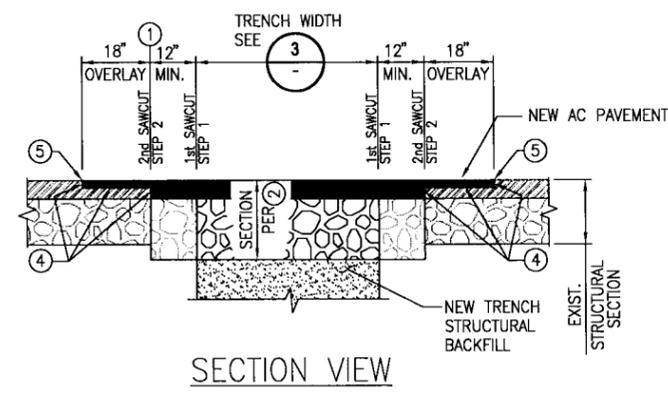
NOT TO SCALE



- NOTES:**
1. BACKFILL MATERIALS SHALL BE PER SPECIFICATION SECTION 312316.
 2. SEE SPECIFICATION SECTION 312316 IF TRENCH WIDTH EXCEEDS THE MAXIMUM SHOWN ON THIS DRAWING.
 3. RESTORE PAVEMENT PER PLANS AND COUNTY REQUIREMENTS AND DETAIL.
 4. MINIMUM COVER OVER ALL DISTRIBUTION MAINS TO BE 3'-0\"/>

WATERLINE TRENCH DETAIL

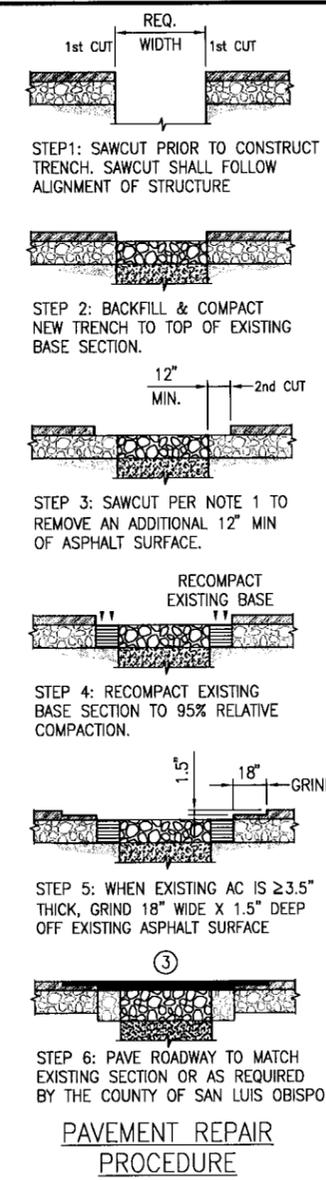
NOT TO SCALE



- NOTES:**
1. SAWCUT TO REMOVE DAMAGED OR FAILED PAVEMENT SECTION ADJACENT TO THE EDGE OF TRENCH AS NECESSARY TO PROVIDE A CLEAN JOIN LINE. ALL SAWCUTS SHALL BE PERPENDICULAR OR PARALLEL TO CENTERLINE, OUTSIDE THE NORMAL VEHICLE TIRE PATH WITHIN A TRAVEL LANE, AND SHALL NOT BE ALLOWED WITHIN DESIGNATED BICYCLE LANES. CUT EDGES SHALL BE VERTICAL WITH SQUARE CORNERS AND SHALL BE STRAIGHT AND NEAT IN APPEARANCE. ALL SAWCUTS SHALL BE TO MINIMUM SHOWN OR TO COMPETENT PAVEMENT SECTION.
 2. THE STRUCTURAL ROAD REPAIR SECTION SHALL MATCH THE EXISTING STRUCTURAL SECTION THICKNESS OR AS REQUIRED BY THE COUNTY OF SAN LUIS OBISPO PUBLIC WORKS DEPARTMENT. TYPICAL ROAD WIDENING SECTION SHALL BE:

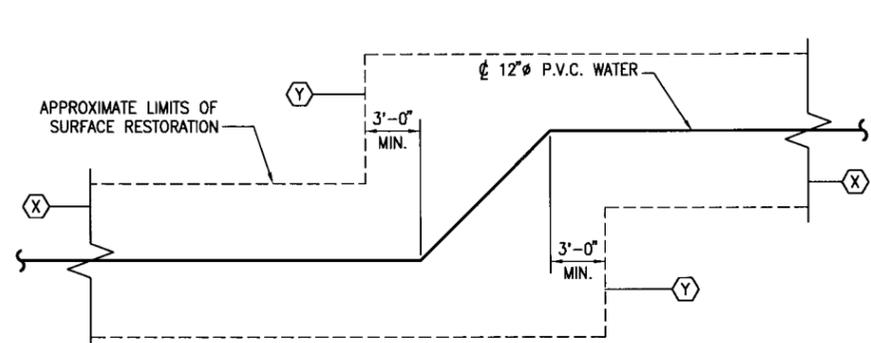
- ASPHALT CONCRETE PER THE DESIGN STANDARDS TO 95% RELATIVE COMPACTION, OVER
- ▨ CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION, OVER
- ▩ TRENCH SECTION (STRUCTURAL BACKFILL TO 95% MIN. RELATIVE COMPACTION)

3. NEW PAVEMENT SHALL BE PLACED IN LIFTS NOT EXCEEDING 3-INCHES (COMPACTED), WITH A MINIMUM LIFT NOT LESS THAN 1.5-INCHES.
4. A TACK COAT SHALL BE APPLIED TO ALL HORIZONTAL AND VERTICAL CONFORM SURFACES PRIOR TO PAVING.
5. AFTER PAVING, APPLY "CRAFCO SUPERFLEX" TO ALL SURFACE SEAMS PER MANUFACTURER'S RECOMMENDATIONS.



COUNTY OF SLO SURFACE RESTORATION - A.C. PAVED AREAS

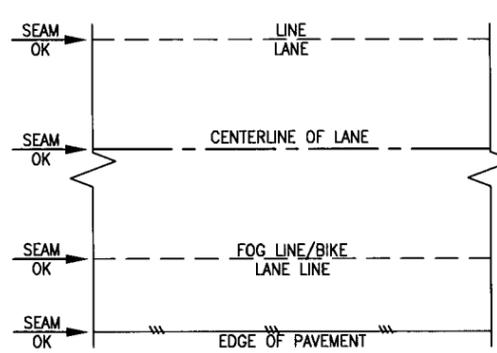
NOT TO SCALE



- NOTES:**
- (X) CONTINUE TYPICAL TRENCH REPAIR AND SURFACE RESTORATION PER DETAIL
 - (Y) SEAM TO BE PERPENDICULAR TO TRAVELED WAY (TYP.)

SURFACE RESTORATION AT OBLIQUE CROSSING

NOT TO SCALE



- NOTES:**
1. IF A SEAM IS WITHIN 3- FEET OF EDGE OF PAVEMENT, CONTRACTOR SHALL RESTORE SURFACE TO PAVEMENT EDGE.
 2. SEAMS AT CENTER OF LANE ARE ALLOWABLE TO ±1-FOOT FROM CENTERLINE. SEAMS AT FOG LINE/BIKE LANE LINE OR LANE LINES ARE ALLOWABLE TO ±6-INCHES
 3. SURFACE RESTORATION SHALL COMPLY WITH SLO COUNTY ENCROACHMENT PERMIT CONDITIONS.

SURFACE RESTORATION-ALLOWABLE SAWCUT SEAMS

NOT TO SCALE

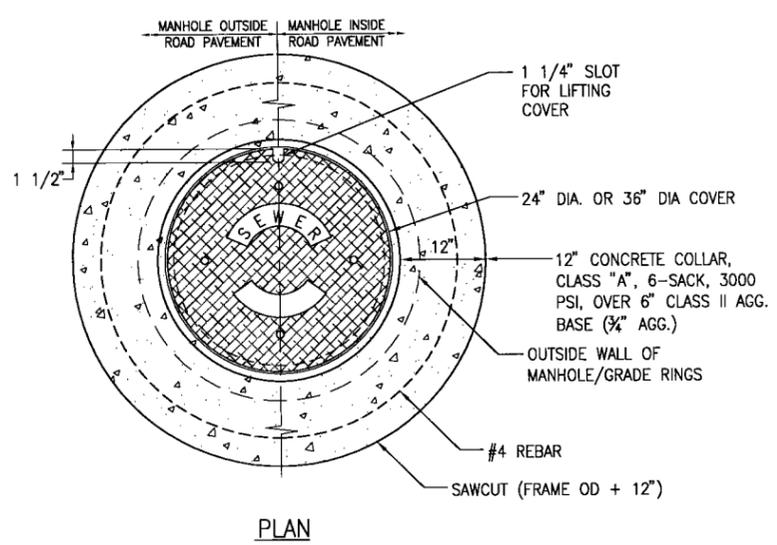
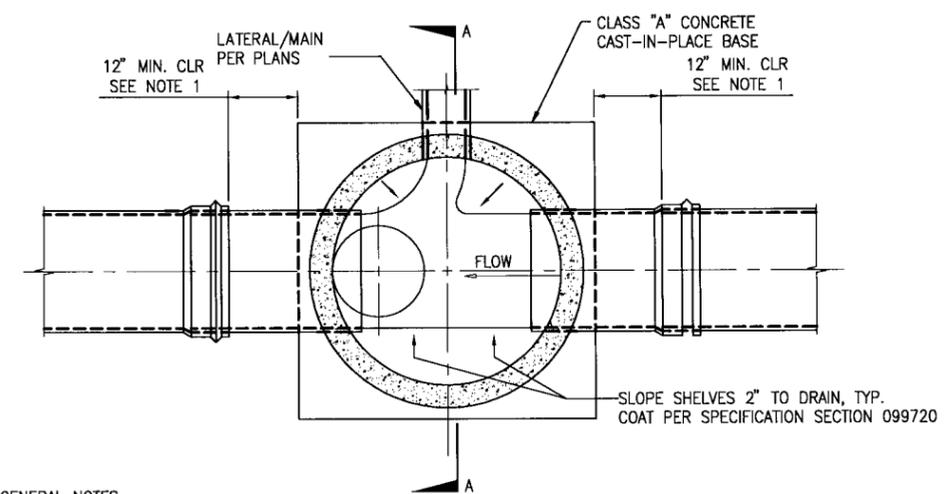
AECOM WATER
FOR PRELIMINARY USE ONLY
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DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET

0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1\"/>

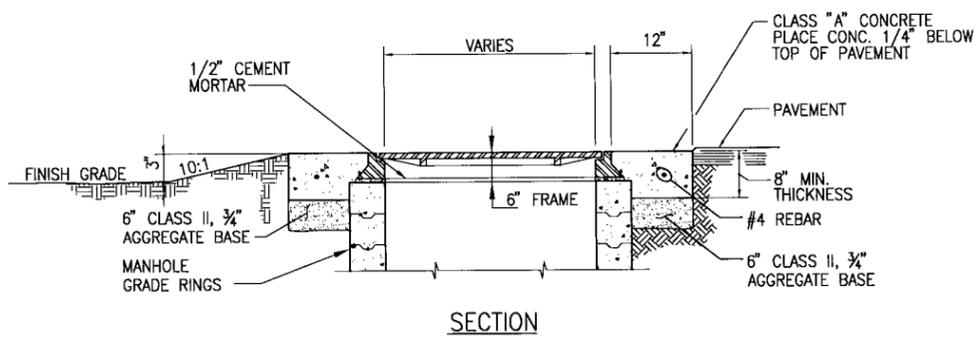
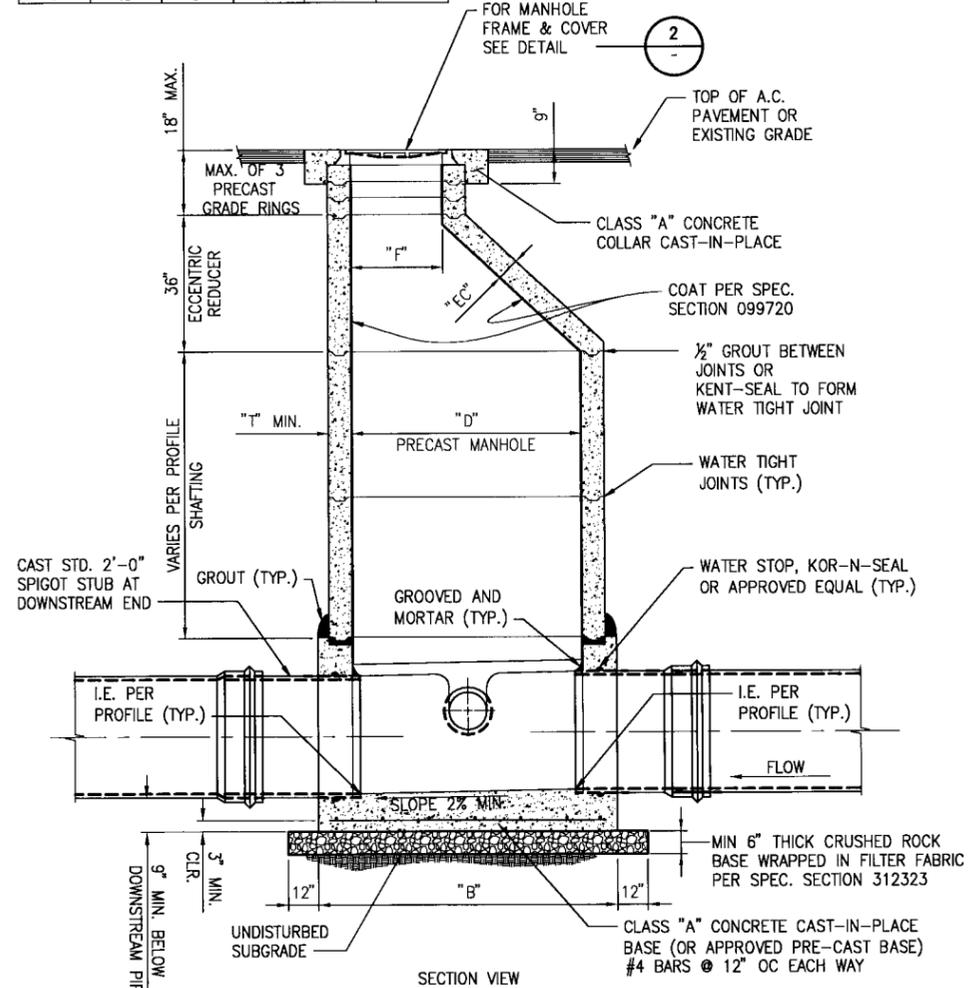
<p> AECOM 1154 Pacific Street, Suite 204 San Luis Obispo, California 93401 T: 805.542.9840 F: 805.542.9990 www.aecom.com </p>	<p> NIPOMO NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2 WATER PIPELINE DETAILS - 3 </p>
<p> DESIGNED: JRF DETAILED: JPF CHECKED: APPROVED: DATE: APRIL 2010 AECOM PROJECT NO. 80061295 NCS3 PROJECT NO. </p>	<p> CADD STDS. BOYLE/AECOM C-503 SHEET 64 OF 80 </p>

DWG: W:\Nipomo_CSD (1999)\1999\670 Waterline Interline Project Design\Interline Plans\DWG\Plan\BP2-NIPOMO PIPELINE_Draft Final Planset\C-505.dwg Layout Name: C-505 - Plotted by: Firefighter, Jim Date: 5/5/2010 - 7:25 AM
 APPR: MCSB-BO-BP2 - MDCS: MCSB-Transportation-Program-Engineering



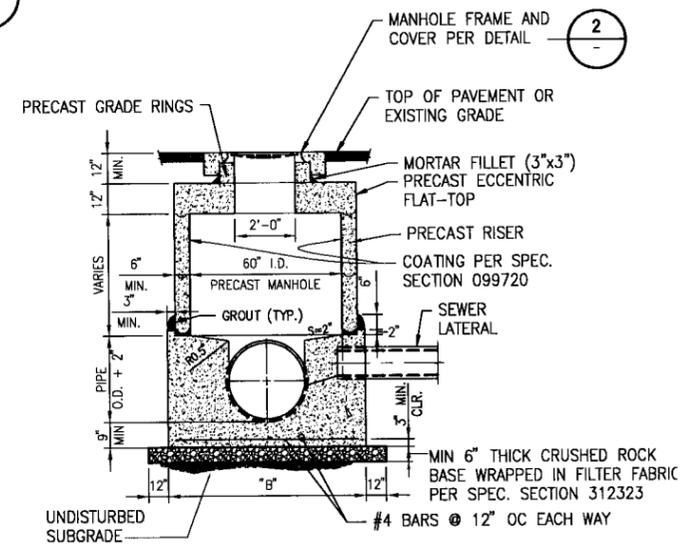
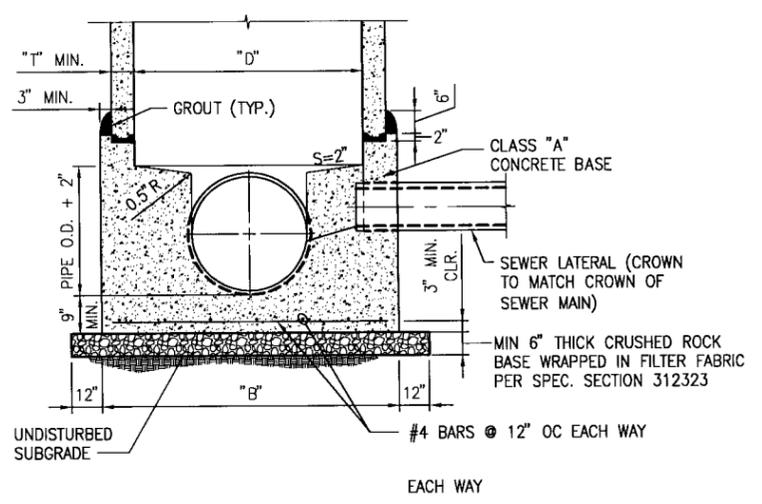
GENERAL NOTES:
 1. ADJUST SPIGOT AND BELL STUB LENGTHS AS NECESSARY TO PROVIDE MINIMUM CLEARANCES SHOWN.

MANHOLE DIMENSIONS					
TYPE	"D" (INCH)	"T" (INCH)	"EC" (INCH)	"F" (INCH)	"B" (FT)
A	60"	8"	8"	24"	7'-0"
B	48"	6"	7"	24"	6'-0"



NOTE:
 1. MANHOLE FRAME AND COVER SHALL BE MODEL NO. 1495, 200 LB LID AS MANUFACTURED BY SOUTH BAY FOUNDRY PER SPECIFICATION SECTION 034210.

N.C.S.D. MANHOLE AND FRAME DETAIL
 NOT TO SCALE

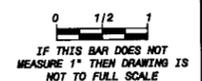


SHALLOW 60" SEWER MANHOLE
 NOT TO SCALE

48" & 60" SEWER MANHOLE
 NOT TO SCALE

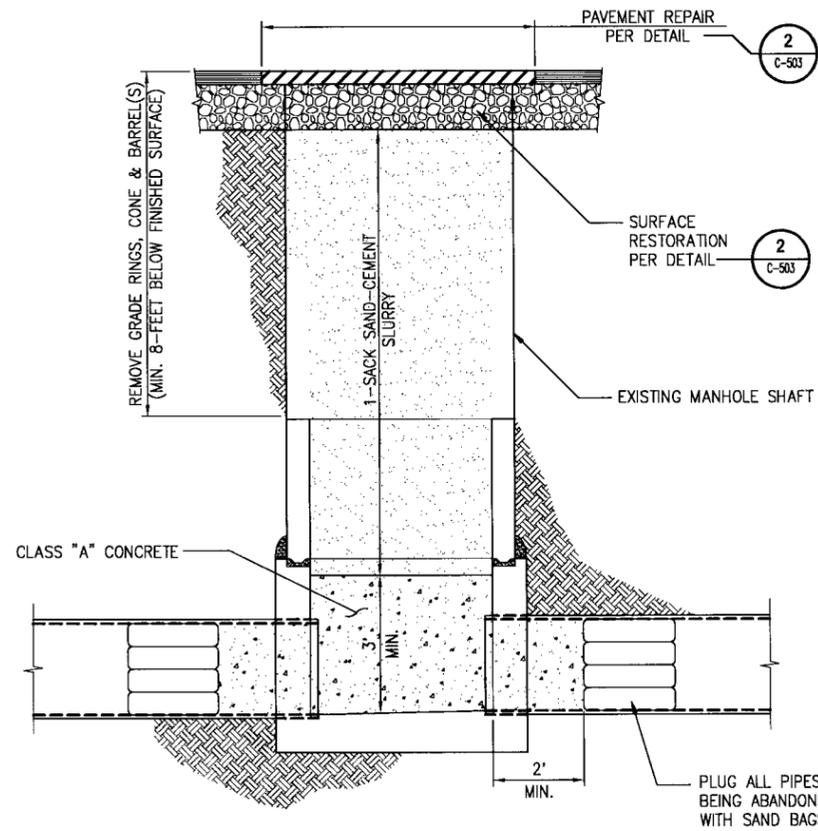
TYPICAL SECTION A-A
 NOT TO SCALE

AECOM WATER
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 NOT TO BE USED FOR CONSTRUCTION
 DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET



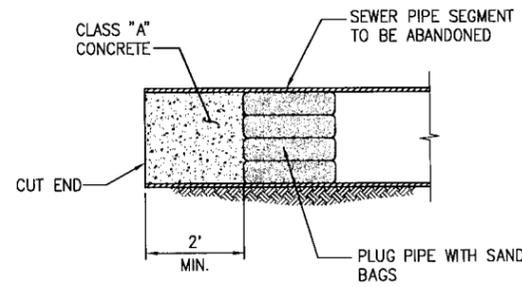
APPN	EXP DATE	09/30/2009
DESCRIPTION	REF NUMBER	CS65400
DATE	PROJECT ENGINEER	JOSHUA H. REYNOLDS
REV		
AECOM USA, Inc. 1155 Locust Hill Drive, Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9990 www.aecom.com		
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2		
SEWER SYSTEM DETAILS - 2		
DESIGNED: CR		
DETAILED: JPF		
CHECKED:		
APPROVED:		
DATE: APRIL 2010		
AECOM PROJECT NO. 60061295		
NCSD PROJECT NO.		
CADD STDS. BOYLE/AECOM		
C-505		
SHEET		
66 OF 80		

DWG: N:\Nipomo_CSD (19998)\19998\70 Waterline Interline Project Design\Drawings\Plan\NIPOMO PIPELINE\BP-2_NIPOMO PIPELINE\Drawn Final Planset\C-506.dwg
 PLOTTED BY: FROELICHER, JIM DATE: 5/3/2010 7:25 AM
 LAYOUT NAME: C-506
 REF: NCSD 1000-Transparent_Layout.dwg



TYPICAL MANHOLE ABANDONMENT
NOT TO SCALE

1
-



NOTES:
1. BOTH ENDS OF ABANDONED PIPE SEGMENTS SHALL BE PLUGGED AS SHOWN.

TYPICAL PIPELINE ABANDONMENT
NOT TO SCALE

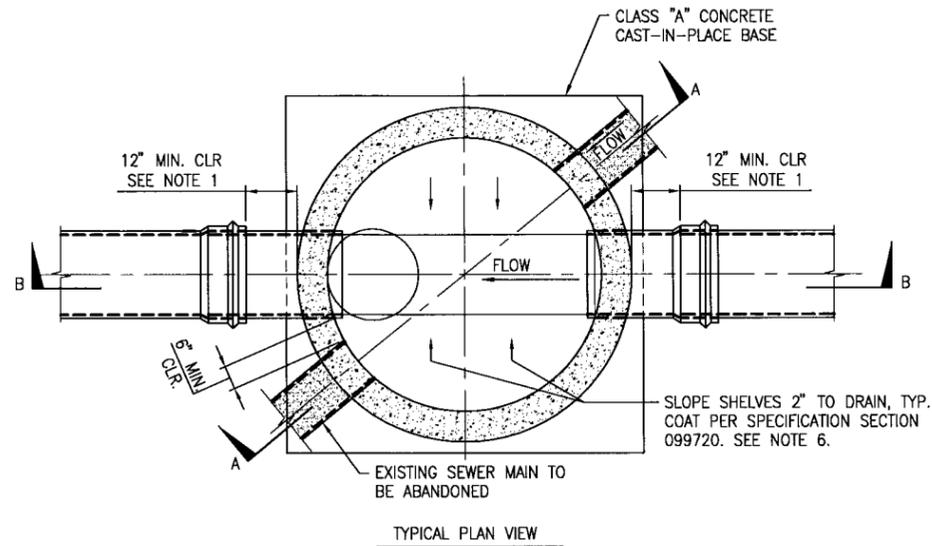
2
-

AECOM WATER
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 DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET

0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

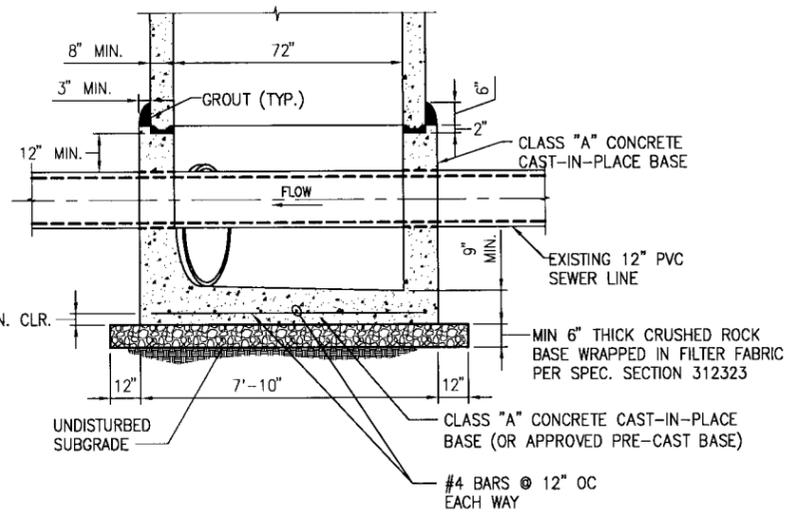
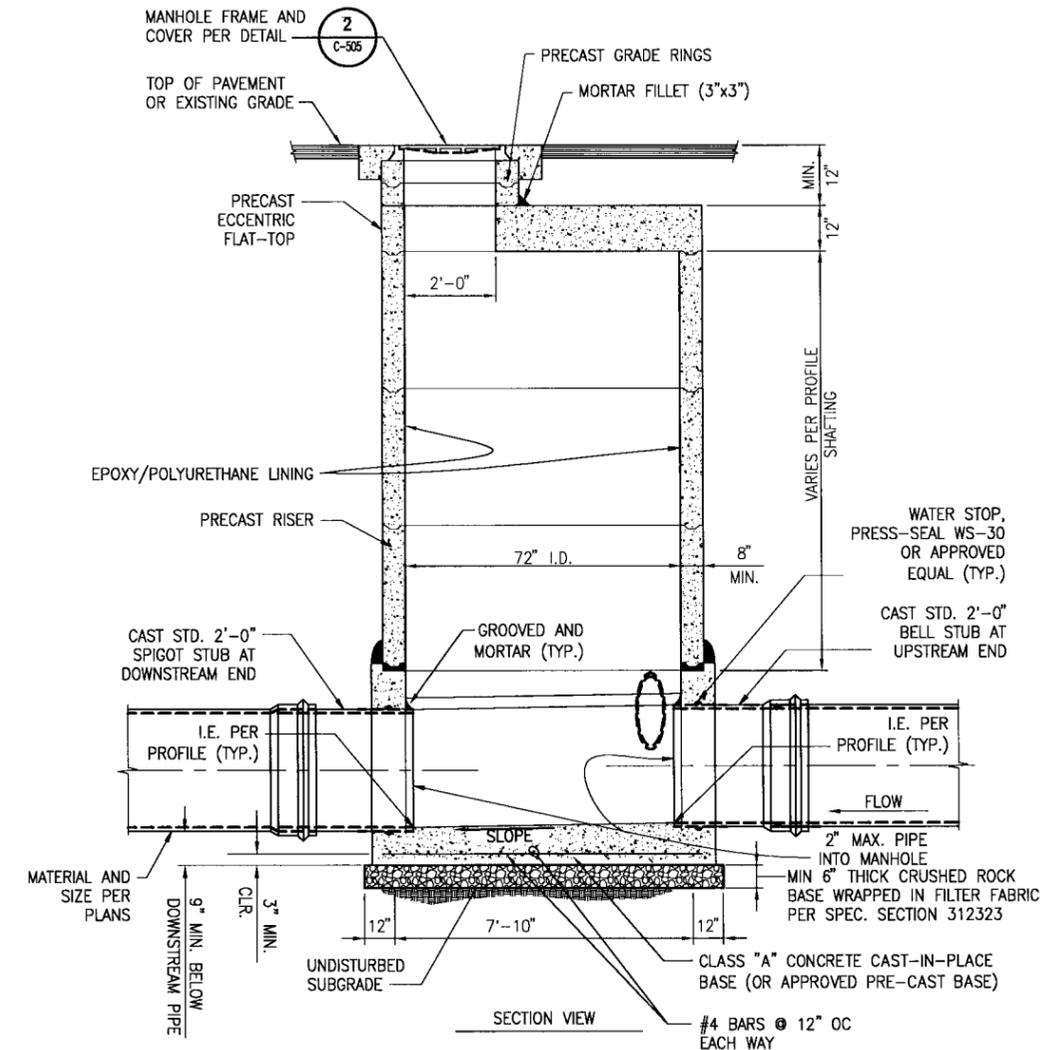
AECOM <small>AECOM USA, Inc. 10000 Wilshire Blvd, Suite 200 Los Angeles, California 90024 T 805.542.8840 F 805.542.8890 www.aecom.com</small>	
NIPOMO	
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2	
SEWER SYSTEM DETAILS - 3	
DESIGNED: CR DETAILED: JPF CHECKED: APPROVED: DATE: APRIL 2010 AECOM PROJECT NO. 80061295 NCSD PROJECT NO.	
CADD STDS. BOYLE/AECOM C-506 SHEET 67 OF 80	

PWS: WA:Vicinity: CSD (19986) 19986.70: Waterline: Interline: Project: Design: Plans: CADD: Planset: BR-2: NIPOMO PIPELINE: Draft: Final: Planset: C-507.dwg: Layout: Name: C-507: Plotted by: Freidricher, Jim: Date: 5/13/2010 - 7:25 AM
 BRCS: NCSO: BR-2: BRCS: NCSO: CADD: Temporary: Project: C:\temp\p\p\

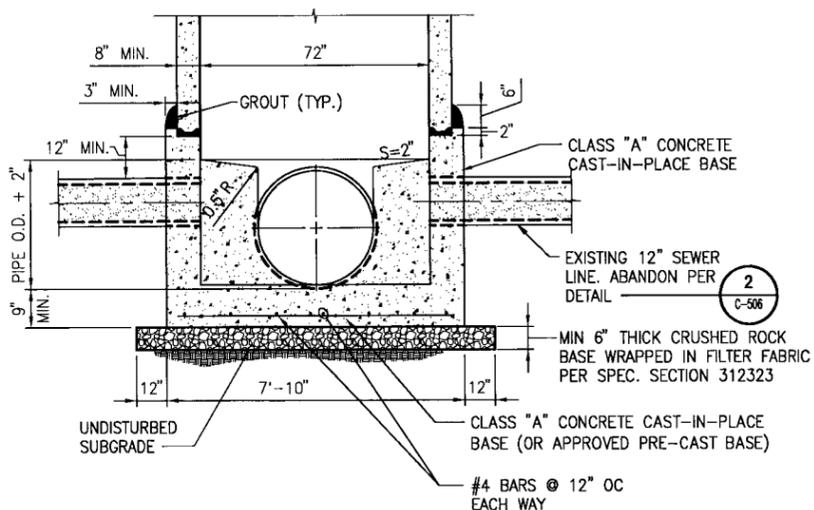


GENERAL NOTES:

1. ADJUST SPIGOT AND BELL STUB LENGTHS AS NECESSARY TO PROVIDE MINIMUM CLEARANCES SHOWN.
2. EXISTING 12" SANITARY SEWER TO REMAIN IN OPERATION UNTIL UPSTREAM TIE-INS TO THE NEW FRONTAGE ROAD SEWER ARE COMPLETED PER CONTRACTOR SUBMITTED CHANGE-OVER PLAN PER SPECIFICATION SECTION 015800.
3. POTHOLE EXISTING SEWER BEFORE CONSTRUCTION.
4. CAST INTERFERENCE MANHOLE IN-PLACE AROUND EXISTING SEWER LINE.
5. FORM CHANNEL WITH INVERT ELEVATIONS SHOWN IN THE DRAWINGS.
6. ONCE CONSTRUCTION OF NEW SEWER IS COMPLETE AND TIE-INS HAVE BEEN MADE ABANDON EXISTING 12" SEWER PER DETAIL 2 ON SHEET C-506. CUT 12" SEWER ENDS FLUSH WITH INTERFERENCE MANHOLE WALLS AND REMOVE SEGMENT OF 12" SEWER FROM INTERFERENCE MANHOLE. FORM CONTINUOUS MANHOLE SHELVES WITH 2" SLOPE TOWARD CHANNEL.



INTERFERENCE MANHOLE - TEMPORARY CONSTRUCTION (A)
NOT TO SCALE



INTERFERENCE MANHOLE - COMPLETED MANHOLE (B)
NOT TO SCALE

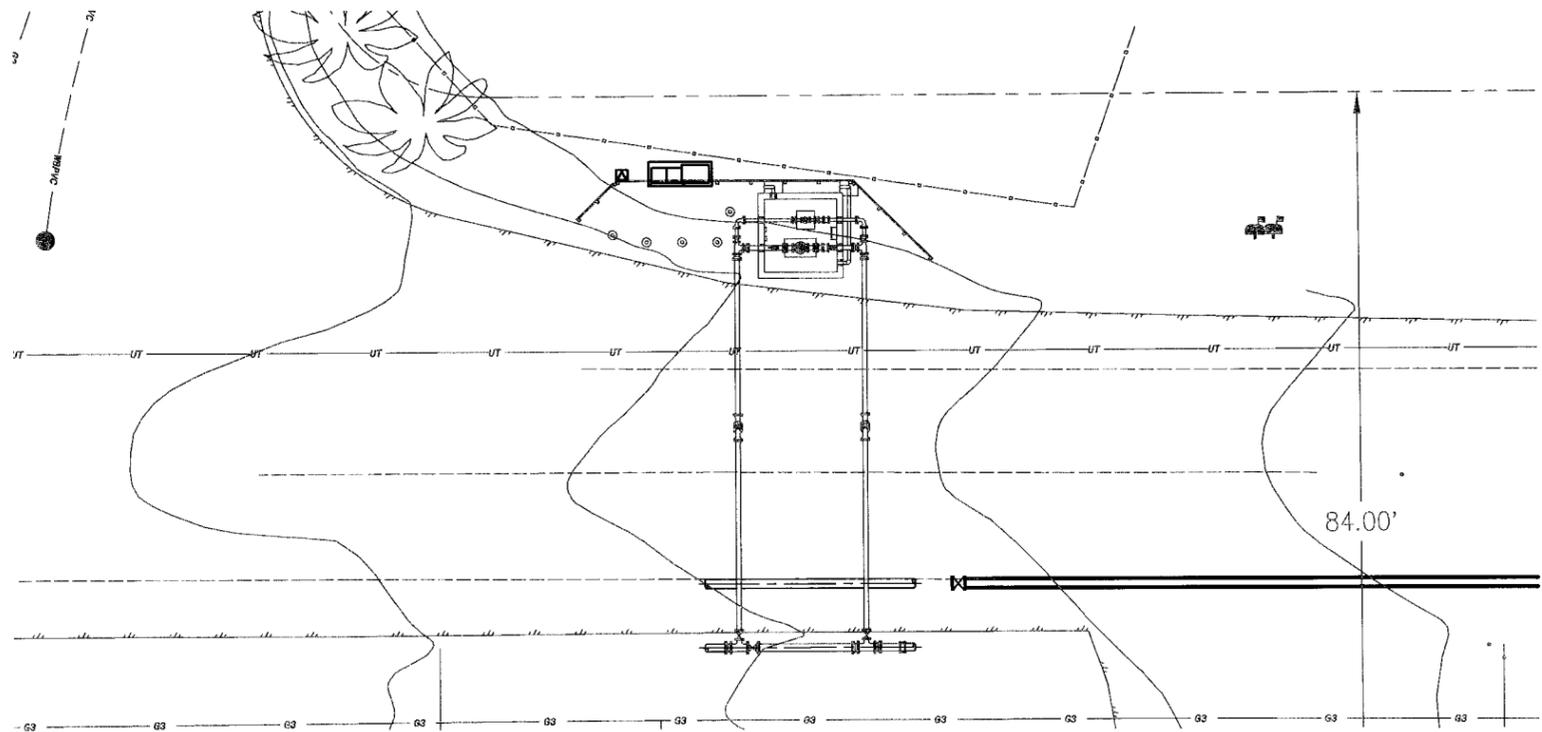
72" INTERFERENCE MANHOLE - COMPLETE MANHOLE (1)
NOT TO SCALE

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 DATE: APRIL 30, 2010
****DRAFT FINAL PRELIMINARY DESIGN PLANSET****

0 1/2 1
 IF THIS BAR DOES NOT
 MEASURE 1" THEN DRAWING IS
 NOT TO FULL SCALE

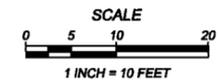
AECOM <small>AECOM USA, Inc. 1154 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9890 www.aecom.com</small>	NIPOMO <small>REGISTERED PROFESSIONAL ENGINEER No. 85400 Exp. 9/30/11 J. H. REYNOLDS CIVIL ENGINEER</small>
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2	SEWER SYSTEM DETAILS - 4
<small>DESIGNED: CKG DETAILED: JPF CHECKED: APPROVED: DATE: APRIL 2010 AECOM PROJECT NO. 00061295 NCSO PROJECT NO.</small>	
C-507 SHEET 68 OF 80	

DWG: N:\Nipomo_CSD (19965) 19966.70 Waterline Intertie Project Design\Plan\BP-2_MPRVAD_PIPES\INT - Draft - ELEC\Plan\E-101 - 108.dwg Layout Name: E-101
 DATE: 4/30/2010 9:52:30 AM PLOT: 4/30/2010 9:52:30 AM PLOTTER: HP DesignJet 2400 Plotter
 PLOT FILE: E:\Projects\19966.70 Waterline Intertie Project Design\Plan\BP-2_MPRVAD_PIPES\INT - Draft - ELEC\Plan\E-101 - 108.dwg
 PLOT DATE: 4/30/2010 9:52:30 AM PLOTTER: HP DesignJet 2400 Plotter



PRV STATION SITE PLAN

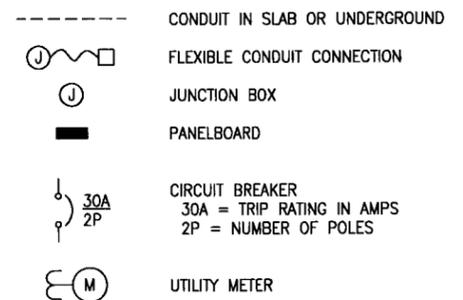
SCALE: 1" = 10'



ABBREVIATIONS:

AICS	AMPERE INTERRUPTING CAPACITY SYMMETRICAL
A, AMPS	AMPERES
C	CONDUIT
GND	GROUND
KW	KILOWATT
LTG	LIGHTING
MISC	MISCELLANEOUS
PG&E	PACIFIC GAS & ELECTRIC
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
P	POLE
REC	RECEPTACLE
SPECS	SPECS
TSP	TWISTED SHIELDED PAIR
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WIRE
∅	∅

ELECTRICAL LEGEND:



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 11540 Rockwell Street, Suite 204
 San Luis Obispo, California 93401
 T 805.542.3840 F 805.542.9900
 www.aecom.com

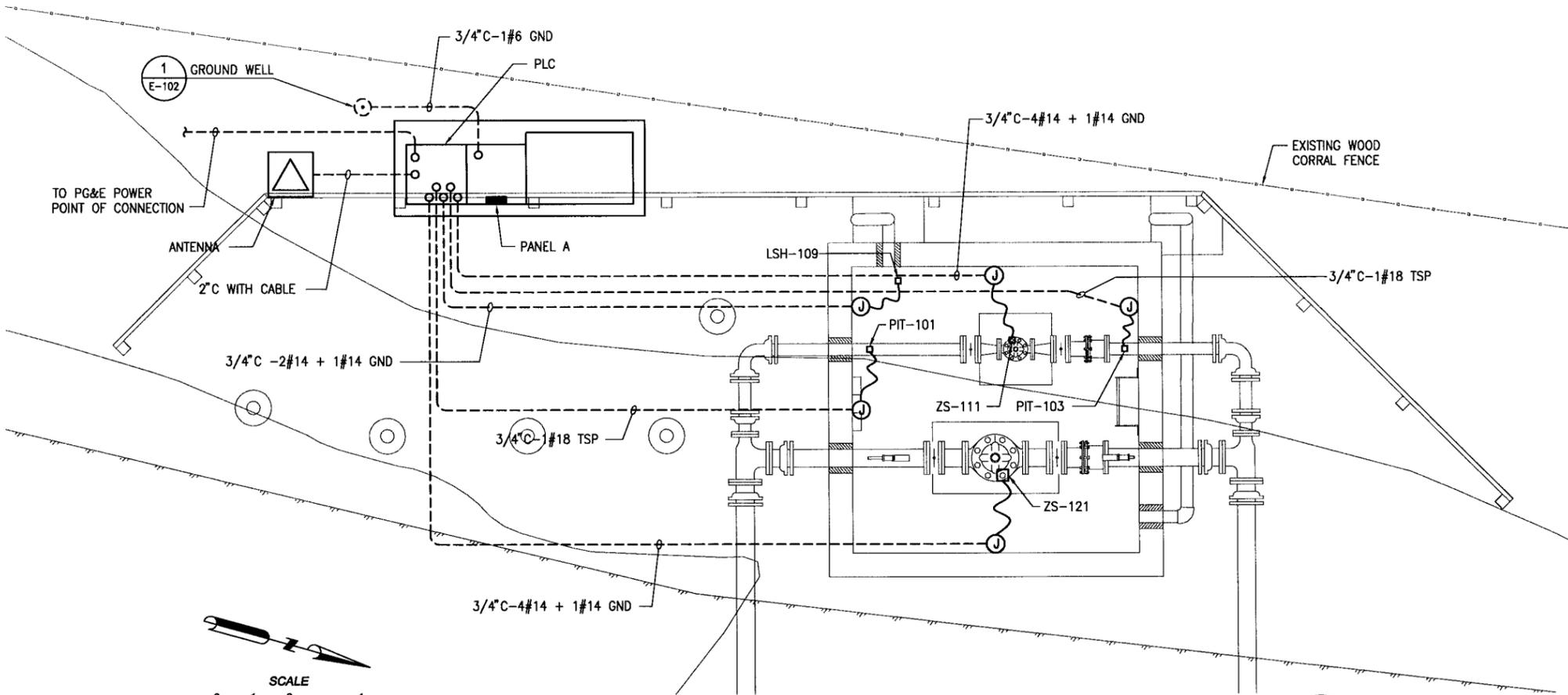


NIPOMO COMMUNITY SERVICES DISTRICT
WATERLINE INTERTIE PROJECT - BP2
ORCHARD ROAD
PRV VAULT ELECTRICAL SITE PLAN
STATION 1042+45.61

DESIGNED: ES
 DETAILED: ES
 CHECKED:
 APPROVED:
 DATE: APRIL 2010
 AECOM PROJECT NO. 00061295
 NCSO PROJECT NO.

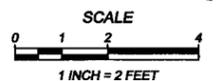
CADD STDS.
 BOYLE/AECOM

E-101
 SHEET
 69 OF 80



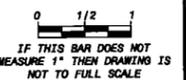
PRESSURE REDUCING VALVE VAULT

SCALE: 1/2" = 1'-0"

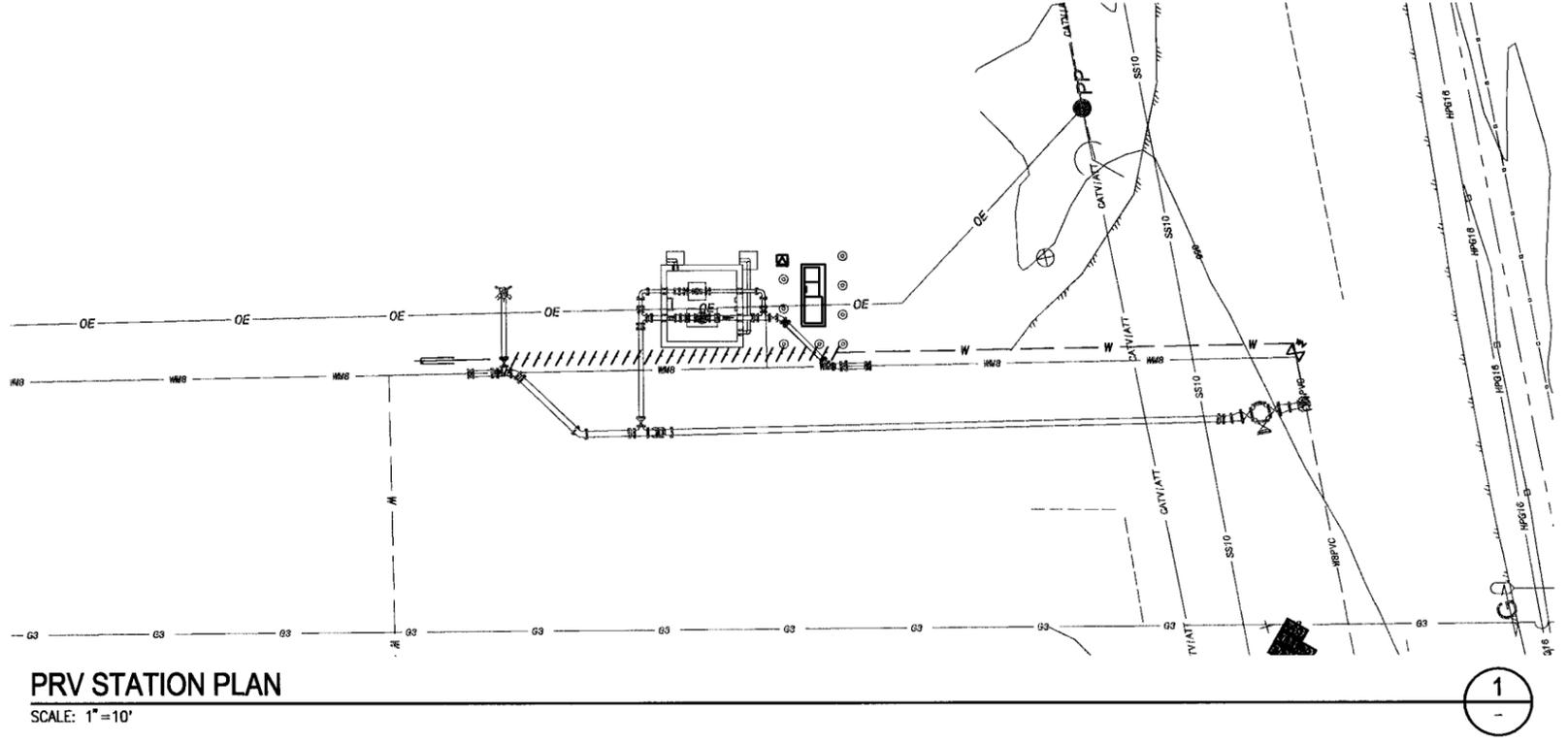


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DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET



NGS: W:\Users\CSJ (1999)\1999670\Waterline\Interline\Project Design\Drawings\Plan\Drawings\BP2 - NIPOMO\PIPELINE\BP2 - NIPOMO\PIPELINE\E-101 to 108.dwg, Layout Name: E-105
 XREFS: MCS0-BP2, Service-Station-4-13, Waterlines - E-Utilities - PRV, POT TUBES: ACAD2004, IMAGES: 4-488.dwg - MCS0_LOD2-transparent.dwg, LAYOUT: 4-488.dwg - MCS0_LOD2-transparent.dwg
 Date: 5/3/2010 - 7:27 AM
 Plotted by: Foeleicher, Jim



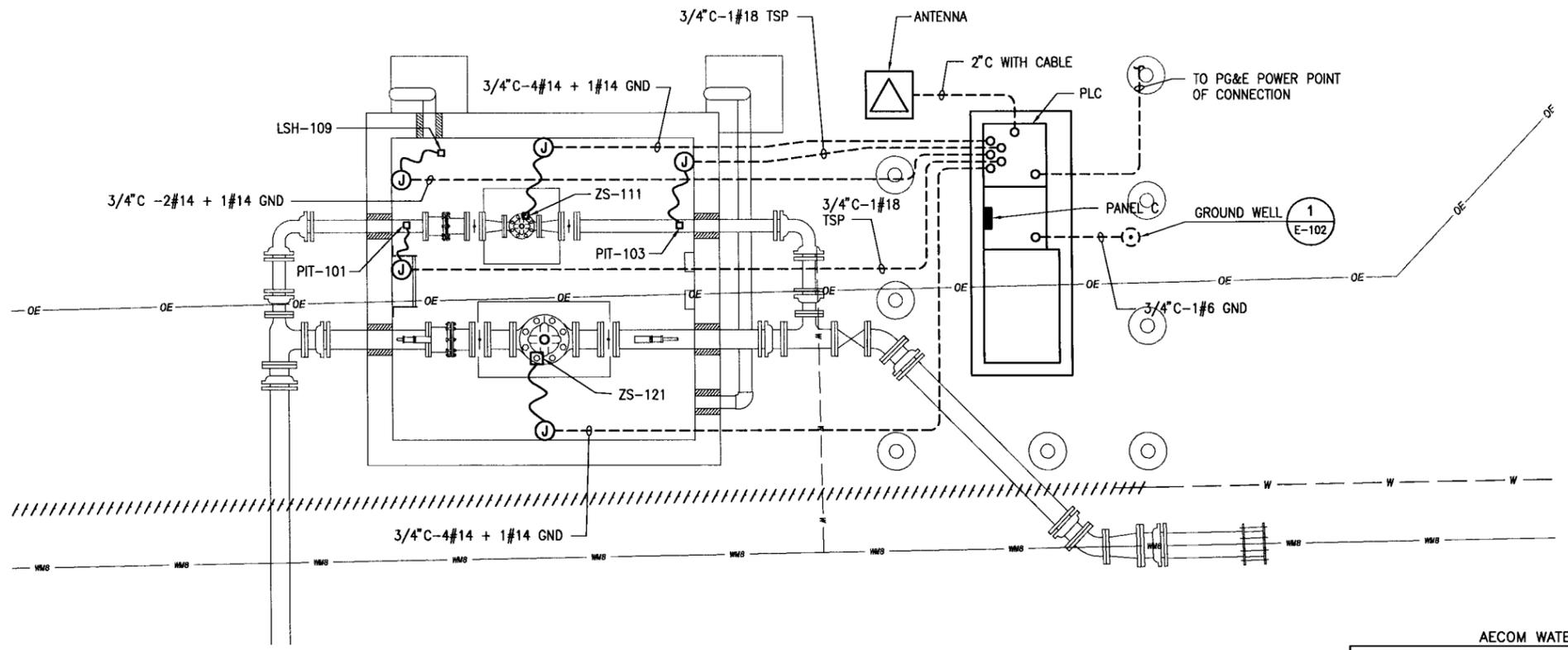
PRV STATION PLAN
SCALE: 1"=10'

ABBREVIATIONS:

AICS	AMPERE INTERRUPTING CAPACITY SYMMETRICAL
A, AMPS	AMPERES
C	CONDUIT
GND	GROUND
KW	KILOWATT
LTG	LIGHTING
MISC	MISCELLANEOUS
PG&E	PACIFIC GAS & ELECTRIC
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
P	POLE
REC	RECEPTACLE
SPECS	SPECS
TSP	TWISTED SHIELDED PAIR
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WIRE
Ø	Ø

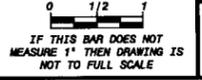
ELECTRICAL LEGEND:

---	CONDUIT IN SLAB OR UNDERGROUND
⌋	FLEXIBLE CONDUIT CONNECTION
⊙	JUNCTION BOX
■	PANELBOARD
⌋ 30A 2P	CIRCUIT BREAKER 30A = TRIP RATING IN AMPS 2P = NUMBER OF POLES
⊙ M	UTILITY METER



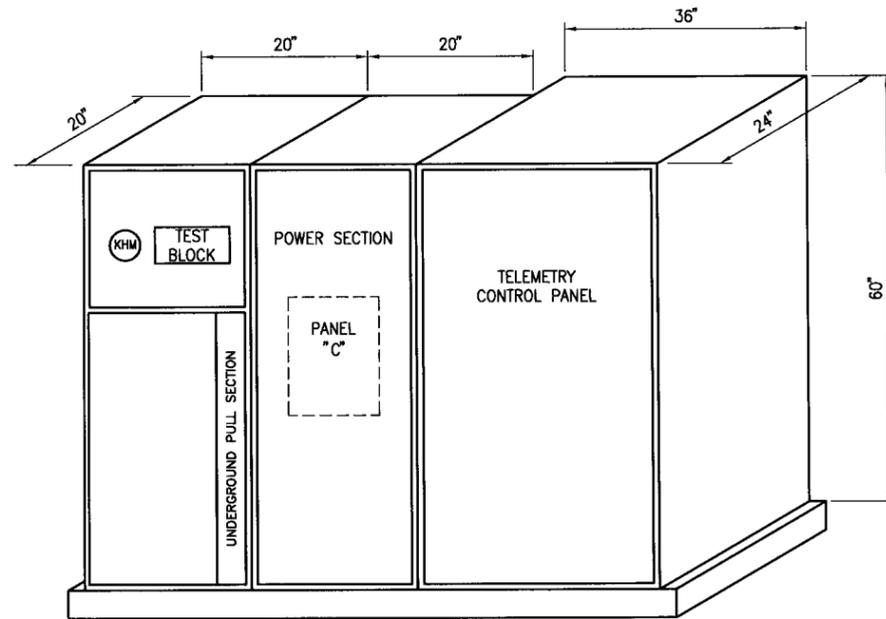
PRESSURE REDUCING VALVE VAULT
SCALE: 1/2"=1'-0"

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 DATE: APRIL 30, 2010
****DRAFT FINAL PRELIMINARY DESIGN PLANSET****



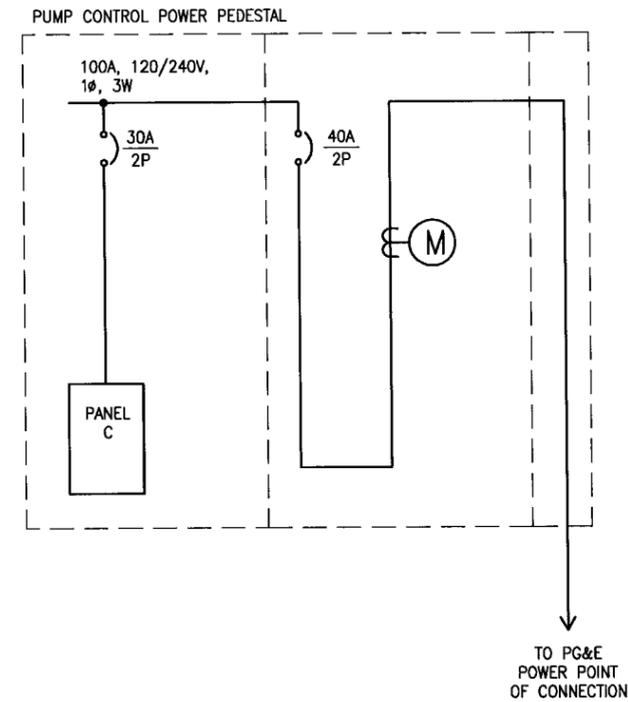
AECOM <small>AECOM USA, Inc. 1104 Pacific Street, Suite 204 San Luis Obispo, California 93401 T 805.542.9840 F 805.542.9990 www.aecom.com</small>	 NIPOMO
NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2 GRANDE STREET PRV VAULT ELECTRICAL SITE PLAN	
DESIGNED: ES DETAILED: ES CHECKED: ES APPROVED: _____ DATE: APRIL 2010 AECOM PROJECT NO. 00081296 MCS0 PROJECT NO. _____ CADD STDS. BOYLE/AECOM E-105 SHEET 73 OF 80	

DMC: WA: Waterco_CSD (19995) 19995 70 Waterline Inertia Project Design Plans\BP-2_NIPOMO_PIPELINE_Draft Final Plans\E-101_101_106.dwg Layout Name: E-106.dwg
 XREFS: NCSO_BD_BP2 - Surface-Sections-4-5 - Waterboxes - Ex-Utilities - PRV_V2 - POT_HOLES_KAD2004 IMAGES: 4-49BV.png - NCSO_LOD0-transport_transport_grayscale_small.jpg -
 Polled by: Fredecker, Jim Date: 5/13/2010 - 7:28 AM



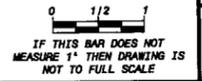
ELEVATION
NOT TO SCALE

NAMEPLATE <u>C</u>										MAIN <u>40A/2P</u>		
BUS: AMPS <u>100A</u> VOLTS: <u>120/240V, 1PH, 3W</u>												
	WATTAGE		OUTLETS			10,000 AICS 20A-1P U.O.N.		OUTLETS			WATTAGE	
	A	B	LTG	REC	MISC			LTG	REC	MISC	A	B
PANEL LIGHTS	300				1	1						
PLC		300			1	3						
						5						
						7						
						9						
						11						
TOTAL LOAD	300	300										
<u>.6</u> KW + LCL										<u>-.6</u> KW =		
										<u>.6</u> KW AT		
										<u>240</u> VOLTS		
										1PH= <u>2.5</u> AMPS		



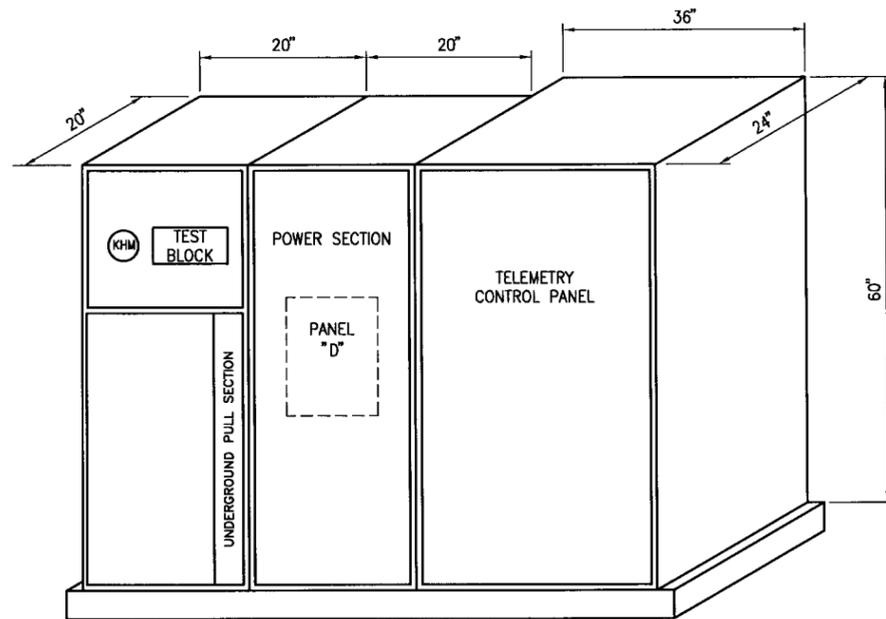
SINGLE LINE DIAGRAM
NOT TO SCALE

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 DATE: APRIL 30, 2010
 DRAFT FINAL PRELIMINARY DESIGN PLANSET



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NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INERTIE PROJECT - BP2 GRANDE STREET PRV VAULT ELECTRICAL DETAILS	
DESIGNED: ES DETAILED: ES CHECKED: APPROVED: DATE: APRIL 2010 AECOM PROJECT NO. 60061295 NCSO PROJECT NO.	
CADD STDS. BOYLE/AECOM	
E-106 SHEET 74 OF 80	

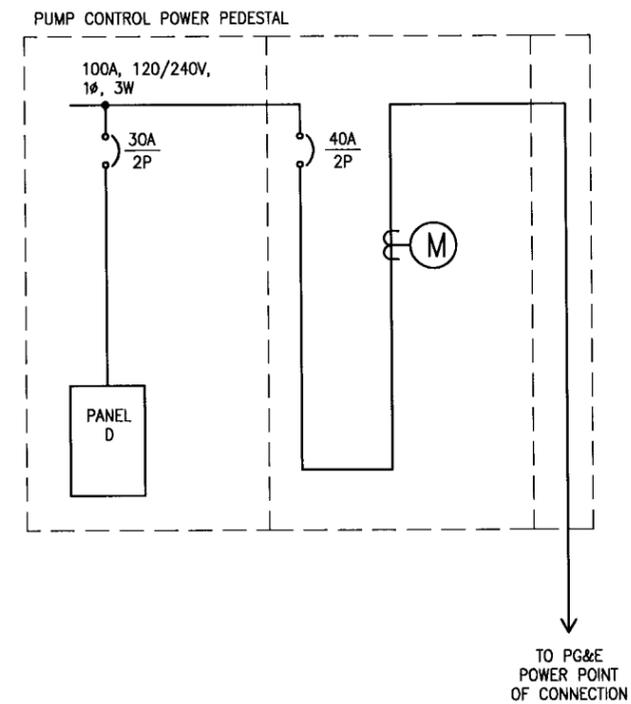
DWG: W:\Nipomo_CSD (19996)\19996.70 Waterline Intertie Project Design\Drawings\Plan\Drawings\BP-2_NIPOMO_PIPELINE_Draft_Final_Planet\E-101 to 108.dwg Layout Name: E-108 - Plotted by: Froelicher, Jim Date: 5/7/2010 - 7:28 AM
 XREFS: NCSO-BD-BP2 - Surface-Sections3-4-S - Watercloses - E-Utilities - PRV_V2 - POT_HOLLS_A402004 - IMAGES: 4-4889.dwg - NCSO_CADD-transparent_color_scales_email.jpg



ELEVATION
NOT TO SCALE

2

NAMEPLATE	D										MAIN		40A/2P	
BUS: AMPS	100A		VOLTS: 120/240V, 1PH, 3W											
	WATTAGE		OUTLETS			10,000 AICS		OUTLETS			WATTAGE			
	A	B	LTG	REC	MISC	20A-1P	U.O.N.	LTG	REC	MISC	A	B		
PANEL LIGHTS	300					1	2							
PLC		300				3	4							
						5	6							
						7	8							
						9	10							
						11	12							
TOTAL LOAD	300	300											TOTAL LOAD	
.6 KW + LCL - KW = .6 KW AT 240 VOLTS 1PH= 2.5 AMPS														



SINGLE LINE DIAGRAM
NOT TO SCALE

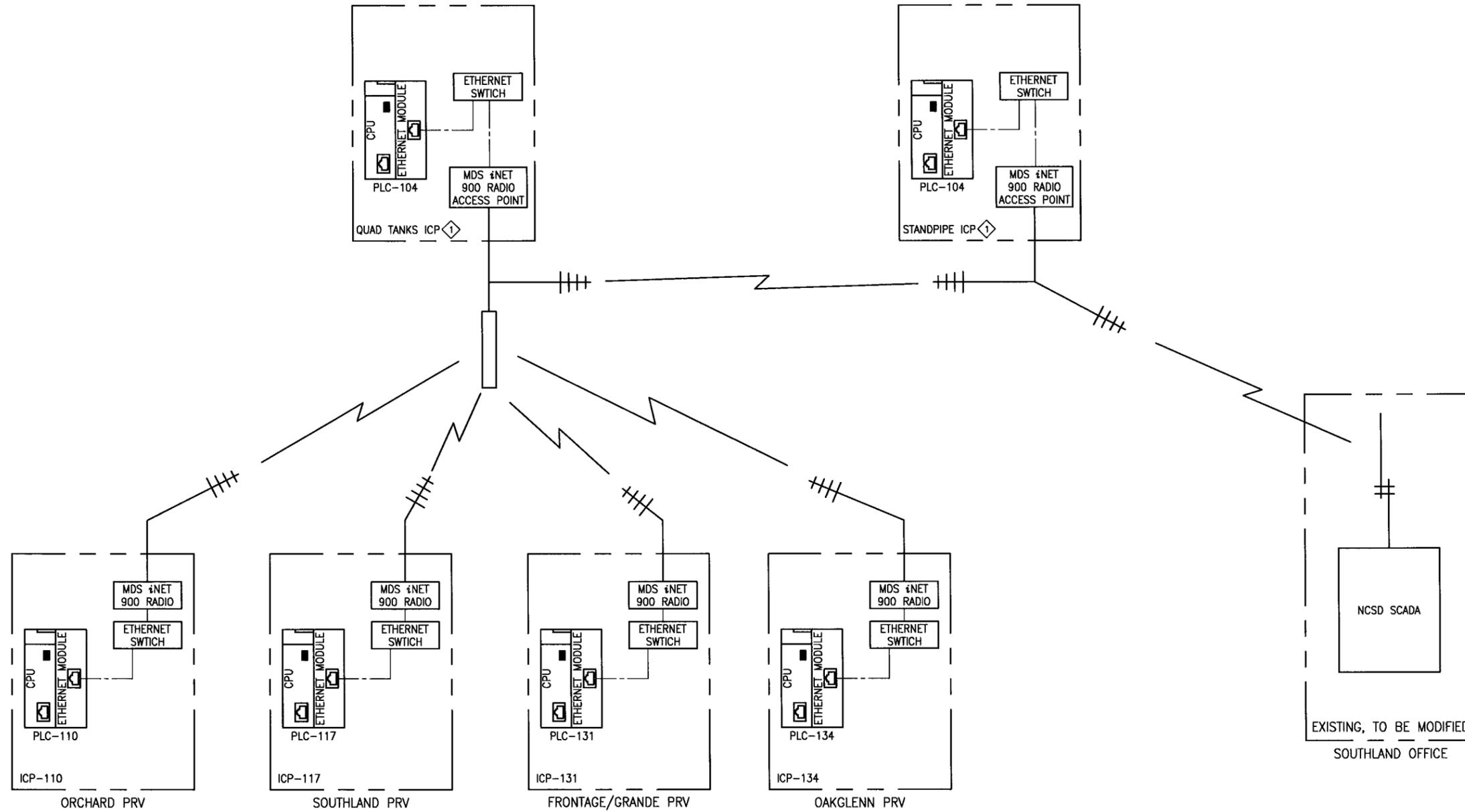
3

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0 1/2 1
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 MEASURE 1" THEN DRAWING IS
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DESIGNED: ES DETAILED: ES CHECKED: APPROVED: DATE: APRIL 2010 AECOM PROJECT NO. 60081295 NCSO PROJECT NO.	
CADD STDS. BOYLE/AECOM E-108 SHEET 76 OF 80	

DWG: W:\Nipomo_CSD (1999)\1999\70 Waterline Interline Project Design\Design Plans\CAD\Planes\IP_2_NIPOMO.dwg
 APPR: MCD-BOL-EPZ
 DATE: 5/17/2010 - 7:29 AM
 PLOTTED BY: FROELICHER, JIM
 LAYOUT NAME: N-102
 PROJECT: MCD-BOL-EPZ
 SHEET: N-102



WIRING LEGEND

----- - ETHERNET (WIRE)

————— - HARDWIRE

NOTES

◊ EXISTING

0 1/2 1

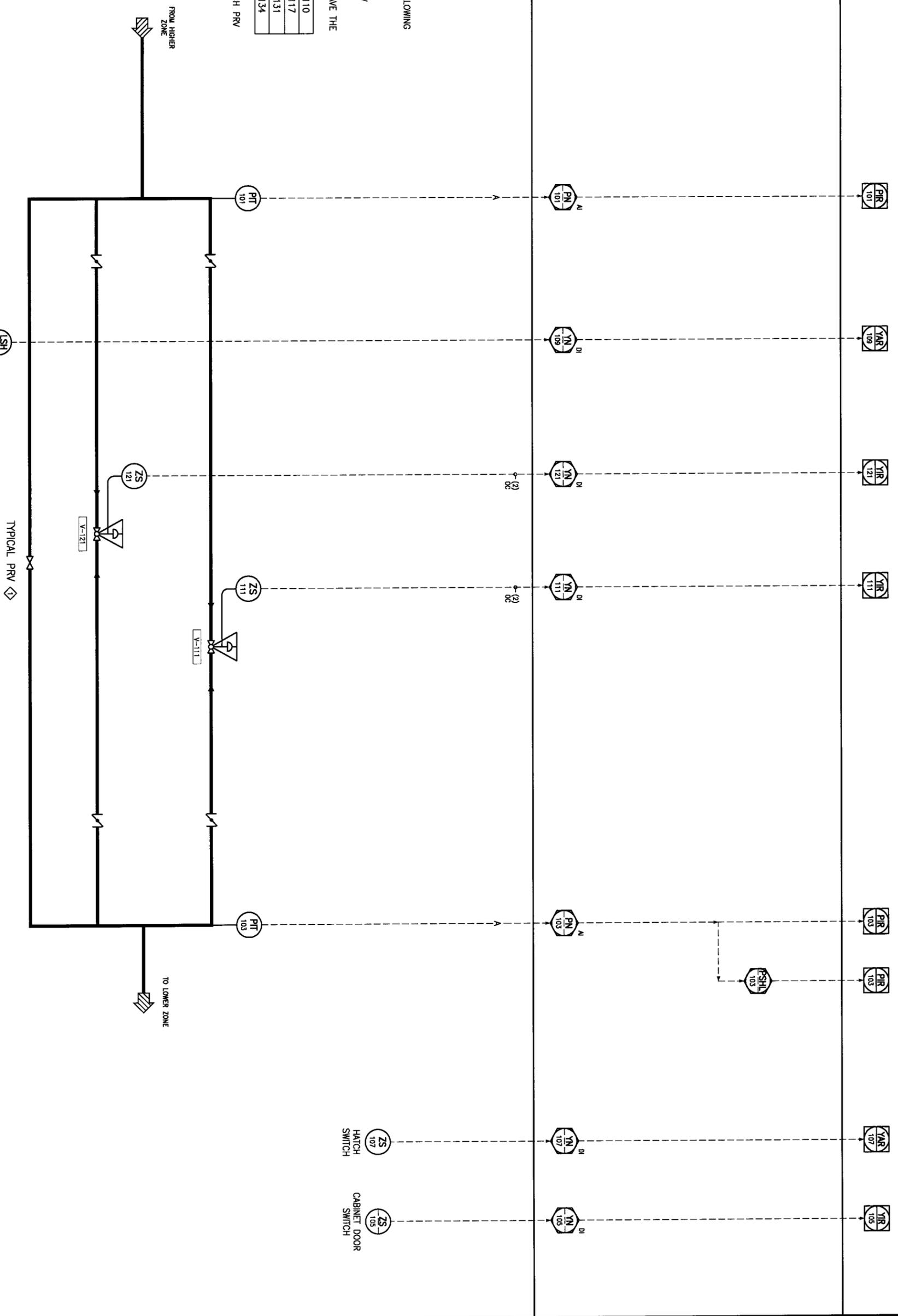
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

<p>AECOM</p> <p>AECOM USA, Inc. 10000 Wilshire Blvd, Suite 704 Los Angeles, California 90024 T 805.542.8840 F 805.542.8960 www.aecom.com</p>	<p>NIPOMO</p>
<p>NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2</p>	
<p>COMMUNICATION BLOCK DIAGRAM</p>	
<p>DESIGNED: CR DETAILED: CR CHECKED: APPROVED: DATE: APRIL 2010 AECOM PROJECT NO. 80061295 NCS PROJECT NO.</p>	
<p>CADD STDS. BOYLE/AECOM</p>	
<p>N-102</p> <p>SHEET 78 OF 80</p>	

SCS

PLC-X

- NOTES
- ① P&ID IS TYPICAL FOR FOLLOWING
 PRV STATIONS:
 - ORCHARD PRV
 - SOUTHLAND PRV
 - FRONTAGE/GRANDE PRV
 - OAKGLEN PRV
 - ② LOOP NUMBERS SHALL HAVE THE FOLLOWING PREFIXES:
- | | |
|-----------------|-----|
| ORCHARD | 110 |
| SOUTHLAND | 117 |
| FRONTAGE/GRANDE | 131 |
| OAKGLEN | 134 |
- ③ PLC NUMBER SHALL MATCH PRV PREFIX



REV	DATE	DESCRIPTION	APPR

AECOM

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 San Luis Obispo, California 93401
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**NIPOMO COMMUNITY SERVICES DISTRICT
 WATERLINE INTERTIE PROJECT - BP2**

TYPICAL PRV STATION P&ID

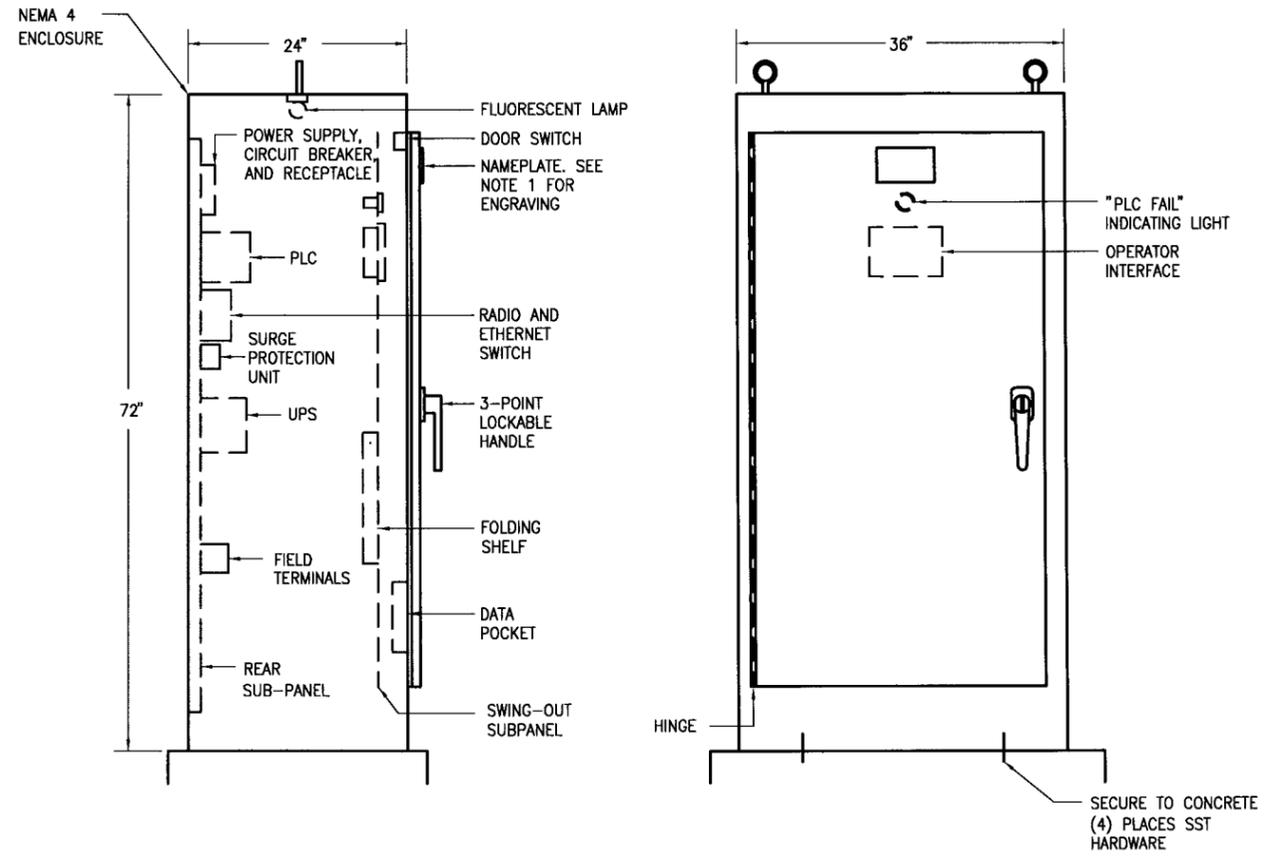
DESIGNED: CH
 CHECKED: CH
 APPROVED: CH
 DATE: APRIL 2010
 AECOM PROJECT NO. 06091285
 NCSO PROJECT NO.

CADD STDS.
 STYLE/VERSION

N-103
 SHEET
 79 OF 80

0 1/2 1
 IF THIS BAR DOES NOT
 MATCH TO FULL SCALE

DMC: W:\Nipomo_CSD (19986)\1998670 Waterline Interline Project Design\Drawings\Plan\CAO\Planets\BP-2_NIPOMO_PPE\NIPOMO_Draft Final Plans\N-501.dwg, Layout Name: N-501 - Plotted by: Foeilicher, Jim Date: 5/3/2010 - 7:29 AM
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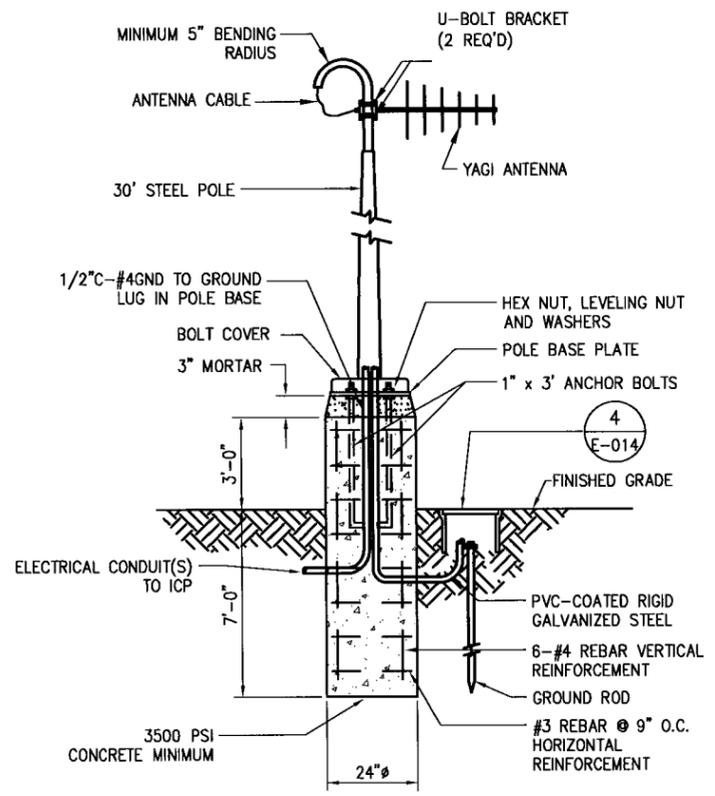
INSTRUMENT CONTROL PANEL (ICP-X) LAYOUT

NTS (TYPICAL, SEE NOTE 1)

NOTES

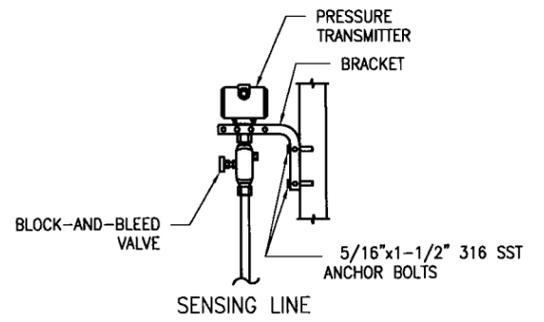
- SEE THE FOLLOWING FOR ICP NUMBER AND NAMEPLATE ENGRAVING

ICP NUMBER	NAMEPLATE ENGRAVING
110	ORCHARD PRV
117	SOUTHLAND PRV
131	FRONTAGE/GRANDE PRV
134	OAKGLEN PRV



MONOPOLE ANTENNA MAST

NOT TO SCALE



PRESSURE TRANSMITTER MOUNTING

NOT TO SCALE

0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

	<p>DATE: APRIL 2010</p> <p>AECOM PROJECT NO. 80061295</p> <p>NCSO PROJECT NO.</p>
	<p>INSTRUMENT DETAILS</p>
<p>NIPOMO COMMUNITY SERVICES DISTRICT WATERLINE INTERLINE PROJECT - BP2</p>	
<p>N-501 SHEET 80 OF 80</p>	