



GENERAL NOTES

- REFER TO DRAWINGS 53A AND 53B AND SPECIFICATION APPENDIX E FOR DETAILS DENOTED BY  AND MCWD STANDARD DETAILS.
- TRENCH PAVING IN THE CITY OF MARINA SHALL BE A MINIMUM OF 6" AC OVER 8" AB OR MATCH THE EXISTING AC AND/OR AB THICKNESS IF THE EXISTING THICKNESS IS GREATER THAN THE MINIMUM.
- TRENCH PAVING ON CSUMB PROPERTY SHALL BE A MINIMUM OF 4" AC OVER 12" AB OR MATCH THE EXISTING AC AND/OR AB THICKNESS IF THE EXISTING THICKNESS IS GREATER THAN THE MINIMUM. 
- TRENCH PAVING ON GENERAL JIM MOORE BLVD SHALL BE A MINIMUM OF 4" AC OVER 12" AB OR MATCH THE EXISTING AC AND/OR AB THICKNESS IF THE EXISTING THICKNESS IS GREATER THAN THE MINIMUM.

STANDARD RECYCLED WATER NOTES

- CONTRACTOR SHALL POTHOLE AND VERIFY VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES AT LEAST 7 DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS TO ALLOW FOR MINOR GRADE ADJUSTMENTS WITHOUT DELAYING INSTALLATION.
- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS, SURVEY OF VISIBLE ABOVE GROUND SURFACE FEATURES AT THE TIME OF SURVEY, AND LIMITED POTHOLING AS SHOWN ON THE PLANS. THIS DOES NOT GUARANTEE THE ACCURACY, COMPLETENESS, LOCATION, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS NECESSARY TO PROTECT THOSE UTILITY LINES NOT SHOWN ON THESE PLANS.
- WATER, SEWER, AND GAS SERVICE LATERALS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL SERVICE LATERALS.
- ALL SERVICE LATERALS DAMAGED OR BROKEN DURING CONSTRUCTION SHALL BE REPLACED IN KIND. SEWER AND WATER LATERAL REPAIRS SHALL CONFORM TO MCWD STD. DETAILS S-6, W-1 and W-2 RESPECTIVELY UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- AN ENCROACHMENT PERMIT FROM THE APPLICABLE JURISDICTIONAL AGENCY IS REQUIRED PRIOR TO ANY WORK WITHIN PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF ALL ENCROACHMENT PERMITS ISSUED.
- ALL WORK WITHIN PRIVATE EASEMENTS SHALL BE PERFORMED IN ACCORDANCE WITH ALL CONDITIONS PROVIDED IN THE EASEMENT, RIGHT-OF-ENTRY, OR TEMPORARY PERMIT DOCUMENTS AS DESCRIBED IN SECTION 01140.
- UNDER THE DIRECTION OF A SURVEYOR LICENSED IN THE STATE OF CALIFORNIA, THE CONTRACTOR SHALL RESET ALL MONUMENTATION DISTURBED OR REMOVED DURING CONSTRUCTION ACTIVITIES PER C040/TYP.
- WHERE THE RECYCLED WATERLINE CROSSES EXISTING UTILITIES, THE RECYCLED WATERLINE SHALL BE INSTALLED A MINIMUM OF 12" VERTICALLY FROM THE EXISTING UTILITY. THE RECYCLED WATERLINE MUST CROSS BELOW EXISTING WATERLINES AND ABOVE EXISTING SANITARY SEWER LINES - SEE MCWD TYP DET W-16 FOR ADDITIONAL REQUIREMENTS.
- CARVs ARE REQUIRED AT ALL HIGH POINTS IN PEPELINES. BLOW-OFFS ARE REQUIRED AT ALL LOW POINTS IN PIPELINES.

BASIS OF BEARINGS

BEARINGS SHOWN HEREON ARE GRID BEARINGS PER THE CALIFORNIA COORDINATE SYSTEM, NAD 83, ZONE 4 (EPOCH 2002.00), AS DETERMINED BY GPS OBSERVATIONS AND THE NATIONAL GEODETIC SURVEY'S (NGS) ONLINE POSITIONING USER SERVICE (OPUS). ALL DISTANCES ARE GRID DISTANCES. AERIAL TOPOGRAPHY FLOWN AUGUST-SEPTEMBER 2006.

BENCHMARK:
ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). A PUBLISHED NAVD 88 ELEVATION OF 145.94 FEET FOR THE NGS BENCHMARK "L 813 RESET" (PID GU2130) WAS HELD AS THE PRIMARY VERTICAL BENCHMARK FOR THE PROJECT.

TURNOUT SCHEDULE

STATION	LOCATION	CONNECTION TYPE	CONNECTION DIAMETER
119+89.00	ARMSTRONG RANCH NEAR CRESCENT AVE	FILL STATION	
120+69.49	ARMSTRONG RANCH AND CRESCENT AVE	CROSS	24
120+69.49	ARMSTRONG RANCH AND CRESCENT AVE	CROSS	24
146+54.66	CRESCENT AVE AND RESERVATION ROAD	TEE	8
167+61.87	CARMEL AVE AND VAUGHN AVE	CROSS	24
174+88.57	VAUGHN AVE AND HILLCREST AVE	TEE	12
212+26.35	CALIFORNIA AVE AND PATTON PARKWAY	TEE	6
225+18.56	CALIFORNIA AVE AND FUTURE 3RD AVE	CROSS	16
225+18.56	CALIFORNIA AVE AND FUTURE 3RD AVE	CROSS	16
225+42.00	CALIFORNIA AVE AND 3RD AVE	FILL STATION	
239+79.91	CALIFORNIA AVE AND IMJIM PKWY	TEE	12
256+47.09	5TH AVE AND 9TH STREET	TEE	12
256+85.00	5TH AVE AND 9TH STREET	FILL STATION	
270+13.46	5TH AVE IN CSUMB	TEE	6
271+74.16	5TH AVE IN CSUMB	TEE	6
273+07.70	5TH AVE IN CSUMB	TEE	6
277+64.35	5TH AVE IN CSUMB	TEE	6
279+21.33	5TH AVE AND 3RD STREET	TEE	24
279+33.31	5TH AVE AND 3RD STREET	TEE	24
283+36.51	5TH AVE AND 3RD STREET	TEE	6
309+20.16	CSUMB PROPERTY	TEE	6
326+67.76	ENGINEER ROAD AND ENGINEERING LANE	TEE	6
334+88.81	ENGINEER ROAD AND GENERAL JIM MOORE BLVD	TEE	6
343+60.31	GENERAL JIM MOORE BLVD AND LIGHTFIGHTER DRIVE	TEE	6
346+58.70	GENERAL JIM MOORE BLVD AND LIGHTFIGHTER DRIVE	TEE	6
346+63.12	GENERAL JIM MOORE BLVD AND LIGHTFIGHTER DRIVE	TEE	6
347+56.05	GENERAL JIM MOORE BLVD AND LIGHTFIGHTER DRIVE	CROSS	12
347+56.05	GENERAL JIM MOORE BLVD AND LIGHTFIGHTER DRIVE	CROSS	12
362+33.25	GENERAL JIM MOORE BLVD AND GIGLING ROAD	CROSS	16
362+33.25	GENERAL JIM MOORE BLVD AND GIGLING ROAD	CROSS	16
389+03.84	GENERAL JIM MOORE BLVD AND NORMANDY ROAD	CROSS	24

**POTHOLING SCHEDULE
(POTHOLING PERFORMED IN 2007)**

POTHOLE #	LOCATION	AC THICKNESS	CONCRETE	TYPE	SIZE	MATERIAL	DEPTH	COMMENTS
1	3239 CRESCENT AVE	3"		GAS	1/2"	PLASTIC	40-1/2"	12' SE OF FACE OF DRIVEWAY AT 3239 CRESCENT AVE
				ELEC	2"	PLASTIC	41"	
				TV	1"	PLASTIC	40-1/2"	
2	CRESCENT AVE & QUEBRADA DEL MAR RD	4"		WATER	12"	PLASTIC	42"	EXCAVATED 12' SE FROM FACE OF CURB ALIGNMENT
3	CRESCENT AVE & QUEBRADA DEL MAR RD	3"		TV	2"	PLASTIC	37-1/2"	EXCAVATED 12' SE FROM FACE OF CURB ALIGNMENT
				CONDUIT	2"	PLASTIC	37-1/2"	
				GAS	2"	PLASTIC	35"	
4	CRESCENT AVE & COSTA DEL MAR RD	3"		WATER	12"	PLASTIC	43"	56' NW OF STOP LINE AT COSTA DEL MAR RD
5	CRESCENT AVE & COSTA DEL MAR RD	3"		GAS	2"	PLASTIC	44"	19' SE OF STOP LINE AT COSTA DEL MAR RD
				ELEC	1"	PLASTIC	45"	
6	CRESCENT AVE & SIERENA DEL MAR RD	4"		GAS	2"	PLASTIC	32"	EXCAVATED 12' SE FROM FACE OF CURB ALIGNMENT
6-A	CRESCENT AVE & SIERENA DEL MAR RD	4"		WATER	12"	PLASTIC	96"	66' NW OF STOP LINE AT SIERENA DEL MAR RD
7	CRESCENT AVE	4"		GAS	4"	PLASTIC	42"	6' SE FROM FACE OF CURB ON CRESCENT AVE
8	3183 CRESCENT AVE & TALLMON ST	3"		GAS	2"	STEEL	37-1/2"	22' SE FROM FACE OF CURB AT 3183 CRESCENT AVE
13	CRESCENT AVE & SHULER CIRCLE	3"		GAS	6"	STEEL	32"	58' NW OF FACE OF CURB AT 3170 CRESCENT AVE
				GAS	2"	STEEL	32"	
14	CRESCENT AVE & SHULER CIRCLE	3"		GAS	2"	STEEL	33"	EXCAVATED TO A DEPTH OF 10' AND NO WATER LINE FOUND. 41' NW OF FACE OF CURB AT 3170 CRESCENT AVE
15	CRESCENT AVE & RESERVATION RD	5"		GAS	4"	PLASTIC	44-1/2"	8' SW OF STOP LINE AT CRESCENT AVE
15-A	CRESCENT AVE & RESERVATION RD	5"	5"			DRY		EXCAVATED TO A DEPTH OF 13'-2". 13' SW OF STOP LINE AT CRESCENT AVE
16	CRESCENT AVE & RESERVATION RD	5"		TELE	3"	PLASTIC	35"	30-1/2' SW OF STOP LINE AT CRESCENT AVE
17	CRESCENT AVE & RESERVATION RD	5"		GAS	6"	STEEL	32"	37' NE OF FACE OF ISLAND ON CRESCENT AVE
18	CRESCENT AVE & RESERVATION RD							CLEARED BY PG&E NO ELECTRIC UNDERGROUND. ELECTRIC OVERHEAD
19	CRESCENT AVE	3"		GAS	2"	STEEL	71"	137" NW FROM FACE OF CURB AT LIGHT POLE ON CRESCENT AVE
				GAS	3/4"	STEEL	66"	12' NW FROM FACE OF CURB AT LIGHT POLE ON CRESCENT AVE
21	CRESCENT AVE	3"		GAS		DRY		DRY HOLE AT AN EXCAVATION DEPTH OF 8'. 30' NORTHWEST FROM FACE OF CURB ON CRESCENT. CALLED PG&E ABOUT UTILITY NOT LOCATED, THEY WILL SEND SOMEONE TO LOCATE.
21-A	CRESCENT AVE	3"		GAS	2"	STEEL	52"	RE-MARKED BY PG&E AND FOUND 2" GAS. 41" NW FROM FACE OF CURB ON CRESCENT AVE
22	CRESCENT AVE & CARMEL AVE	5"		TELE CONDUIT		PLASTIC	62"	12' NW FROM CENTER OF TELEPHONE MAN HOLE ON CARMEL AT CRESCENT AVE
				WATER				WATER LINE NOT FOUND AT AN EXCAVATION DEPTH OF 9'. FOUND CONCRETE ENCASUREMENT CONDUITS AND NO WATER LOCATED UNDER ENCASUREMENT
23	CRESCENT AVE & CARMEL AVE	5"		GAS	2"	STEEL	48"	21' NW FROM CENTER OF TELEPHONE MAN HOLE ON CARMEL AVE AT CRESCENT AVE
24	CRESCENT AVE & CARMEL AVE	5"		GAS	2"	STEEL	47"	135' NE FROM CENTER OF TELEPHONE MAN HOLE ON CARMEL AVE AT CRESCENT AVE
25	335 CARMEL AVE & VAUGHN AVE	5"		GAS	2"	STEEL	49"	13' SW OF FACE OF CURB AT 335 CARMEL AVE
26	335 CARMEL AVE & VAUGHN AVE	5"		3-4" CONDUITS	3-4"	PLASTIC	41 - 1/2"	36' SW FROM EDGE OF CURB AT 335 CARMEL AVE
27	335 CARMEL AVE & VAUGHN AVE	4"		WATER	8"	TRANSITE	39"	44' SW OF EDGE OF DRIVEWAY AT 335 CARMEL AVE
28	VAUGHN AVE & EVERETT AVE	3"		GAS	2"	STEEL	41"	13' SE OF FACE OF CURB AT 3069 VAUGHN AVE
29	VAUGHN AVE & HILLCREST AVE	3"		GAS	2"	STEEL	30"	27' SW OF STOP LINE AT VAUGHN AVE
30	VAUGHN AVE & HILLCREST AVE	4"		WATER	8"	TRANSITE	32 1/2"	18' SW FROM MAN HOLE ON VAUGHN AVE
31	334 REINDOLLAR AVE & VAUGHN AVE	3"		GAS	2"	STEEL	35"	35' NE FROM EDGE OF DRIVEWAY AT 334 REINDOLLAR AVE
32	336 REINDOLLAR AVE & VAUGHN AVE	3"		WATER	6"	TRANSITE	40"	29' NE FROM FACE OF CURB AT 336 REINDOLLAR AVE
33	338 REINDOLLAR AVE	3"		GAS	2"	STEEL	35"	43' SW FROM FACE OF CURB AT 338 REINDOLLAR AVE
				GAS	3/4"	STEEL	35"	

POTHOLES ARE DENOTED ON PLAN WITH 

Last Created by: BHawes 6-12-17 10:43am BHawes

REV	DATE	BY	DESCRIPTION
			DESIGNED AP
			DRAWN LGD
			CHECKED
			DATE MAY 2017
	06/19/17	JPM	CHANGED PER ADDENDUM 2
	05/19/17	JPM	CHANGED PER ADDENDUM 1

DISCIPLINE ENGINEER

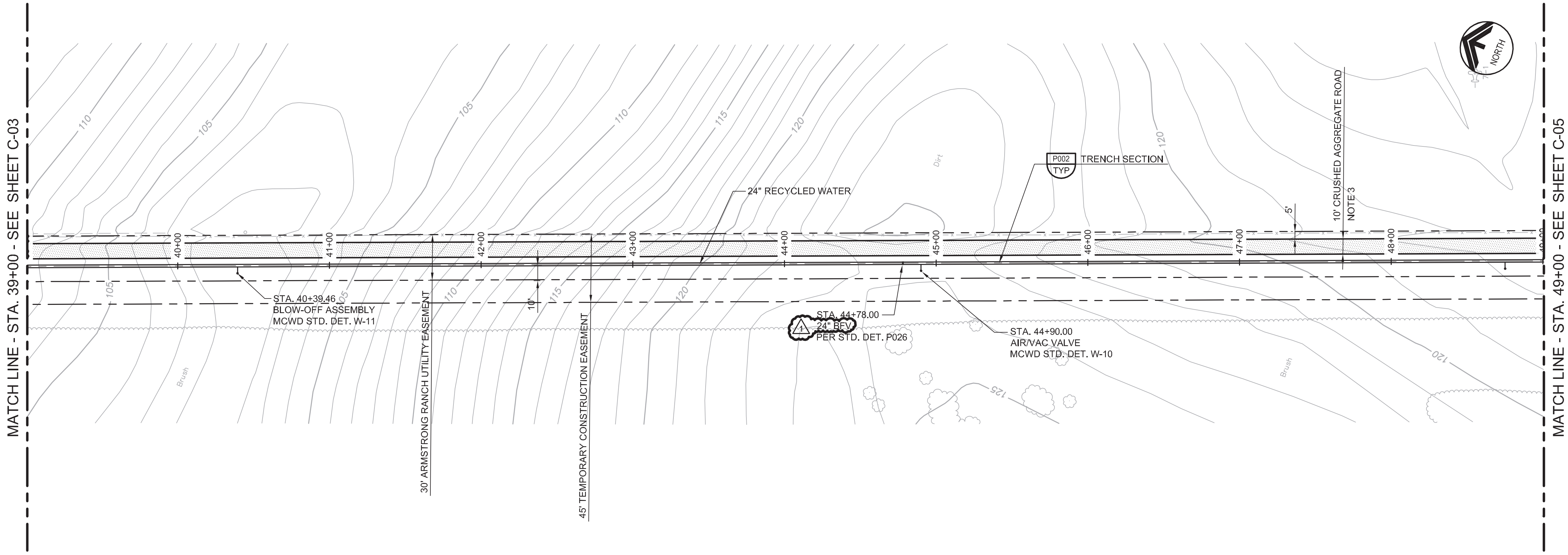
PROJECT ENGINEER
Digitally signed by Jonathon P. Marshall
Contact Info: Carollo Engineers, Inc.
Date: 2017.06.12 13:58:58-0700'



REGIONAL URBAN WATER AUGMENTATION PROJECT
RECYCLED WATER PIPELINE
CIVIL
GENERAL NOTES - 1

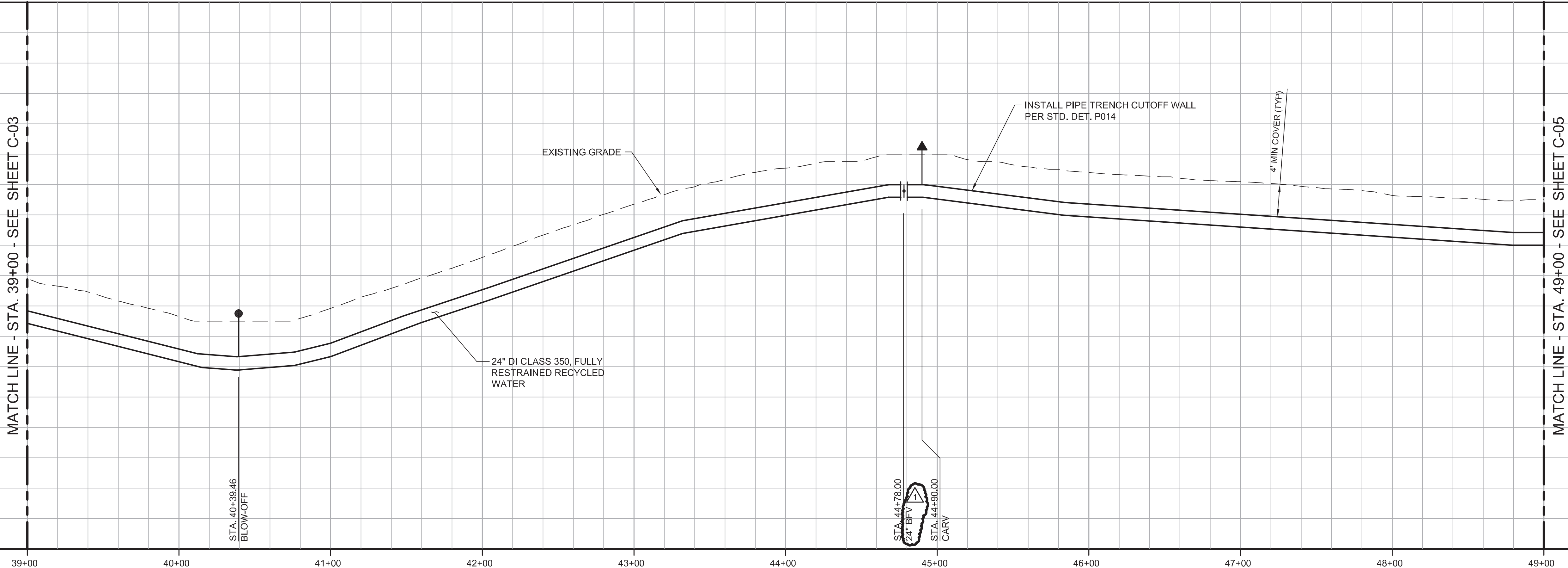
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7568A.10
DRAWING NO. G-02
SHEET NO. 2 OF 93

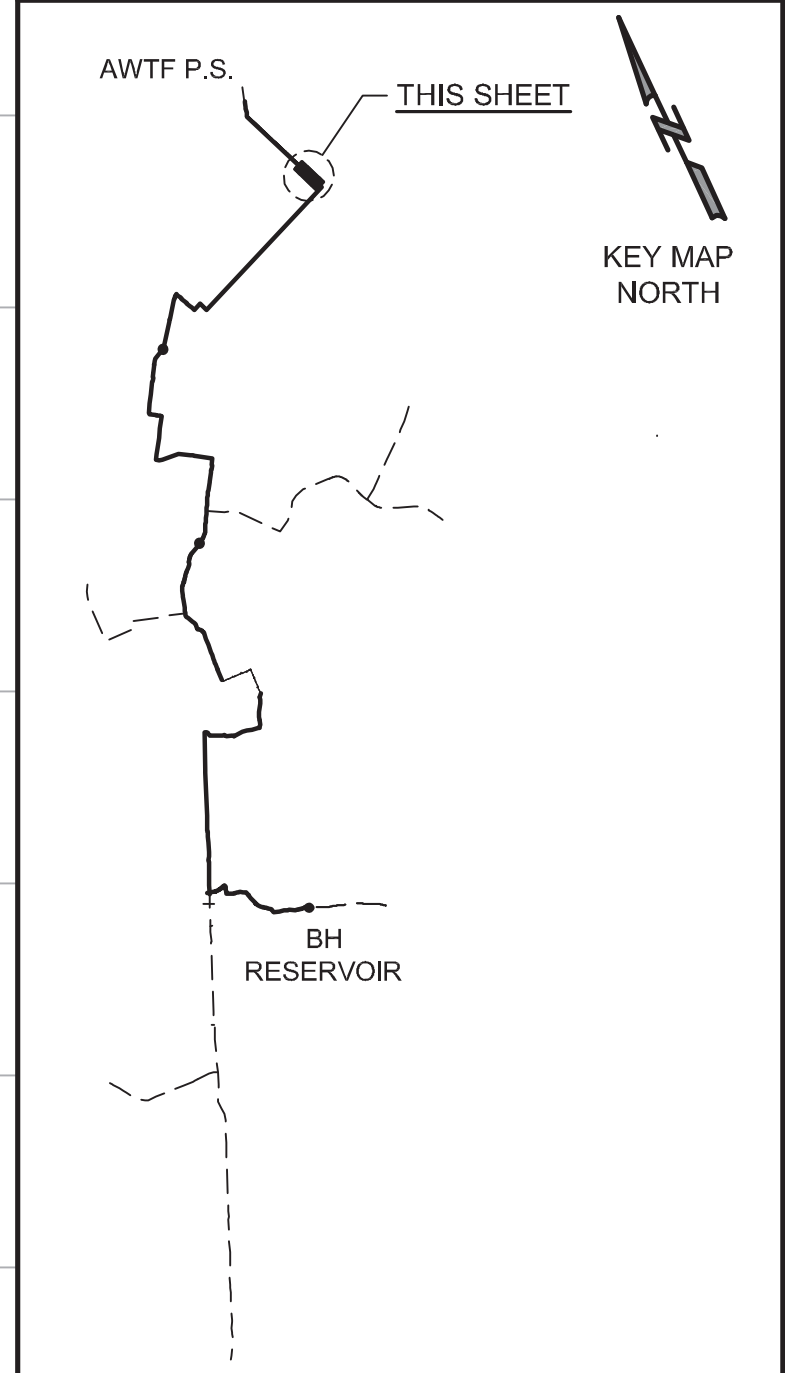


GENERAL NOTES

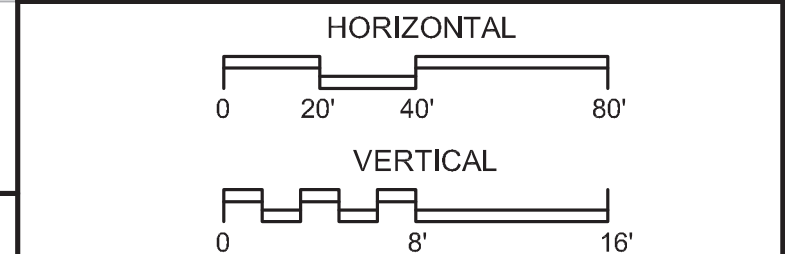
1. CONSTRUCT PIPELINE WITH A MINIMUM 4' OF COVER UNLESS SHOWN OTHERWISE IN THE PROFILE TO AVOID EXISTING UTILITIES OR ACCOMMODATE FUTURE GRADES.
2. THE DISTRICT HAS SECURED A 45' TEMPORARY CONSTRUCTION EASEMENT AS SHOWN ON THE PLANS. THE CONTRACTOR MAY, AT HIS OWN DISCRETION, NEGOTIATE WITH THE PROPERTY OWNER FOR TEMPORARY CONSTRUCTION EASEMENT WIDTH BEYOND THE 45 FEET SHOWN.
3. ROAD SHALL CONSIST OF 6-INCHES OF CRUSHED AGGREGATE COMPACTED TO 95%.



KEY MAP



SCALE



REV	DATE	BY	DESCRIPTION
△	06/19/17	JPM	CHANGED PER ADDENDUM 2

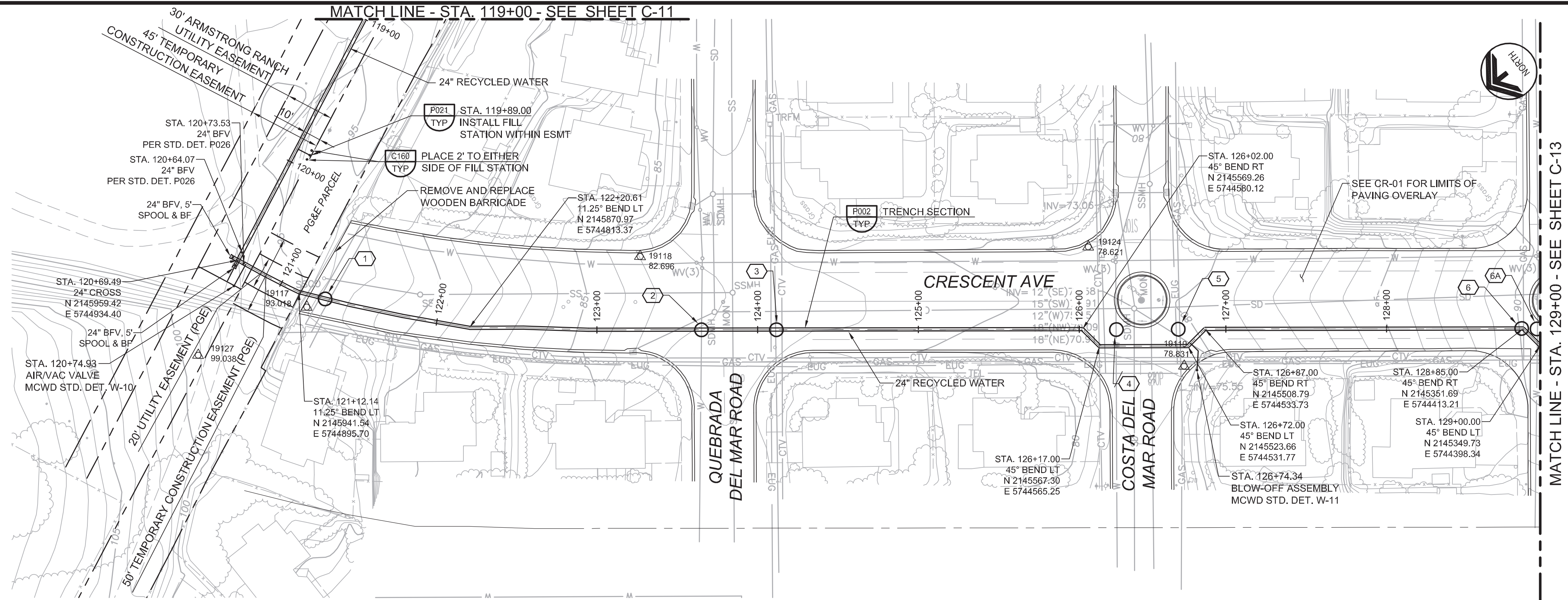
DESIGNED	JPM
DRAWN	BH
CHECKED	AP
DATE	MAY 2017

PROJECT ENGINEER
 Digitally signed by Jonathon P. Marshall
 Contact Info: Carollo Engineers, Inc.
 Date: 2017.06.12 13:58:49-0700'



REGIONAL URBAN WATER AUGMENTATION PROJECT
RECYCLED WATER PIPELINE
 CIVIL
PLAN AND PROFILE
STA. 39+00 TO STA. 49+00

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" 16' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 7568A.10 DRAWING NO. C-04 SHEET NO. 12 OF 93
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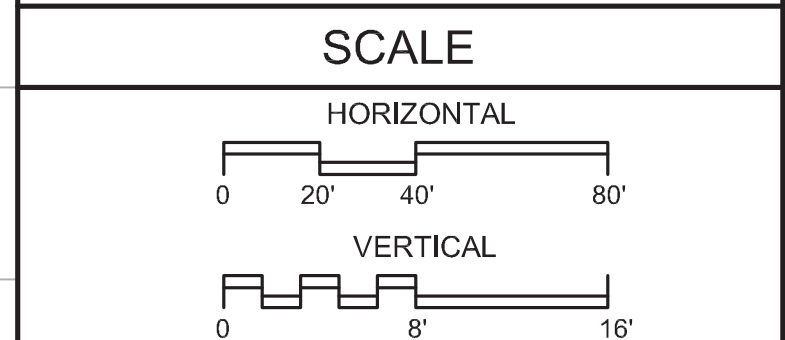
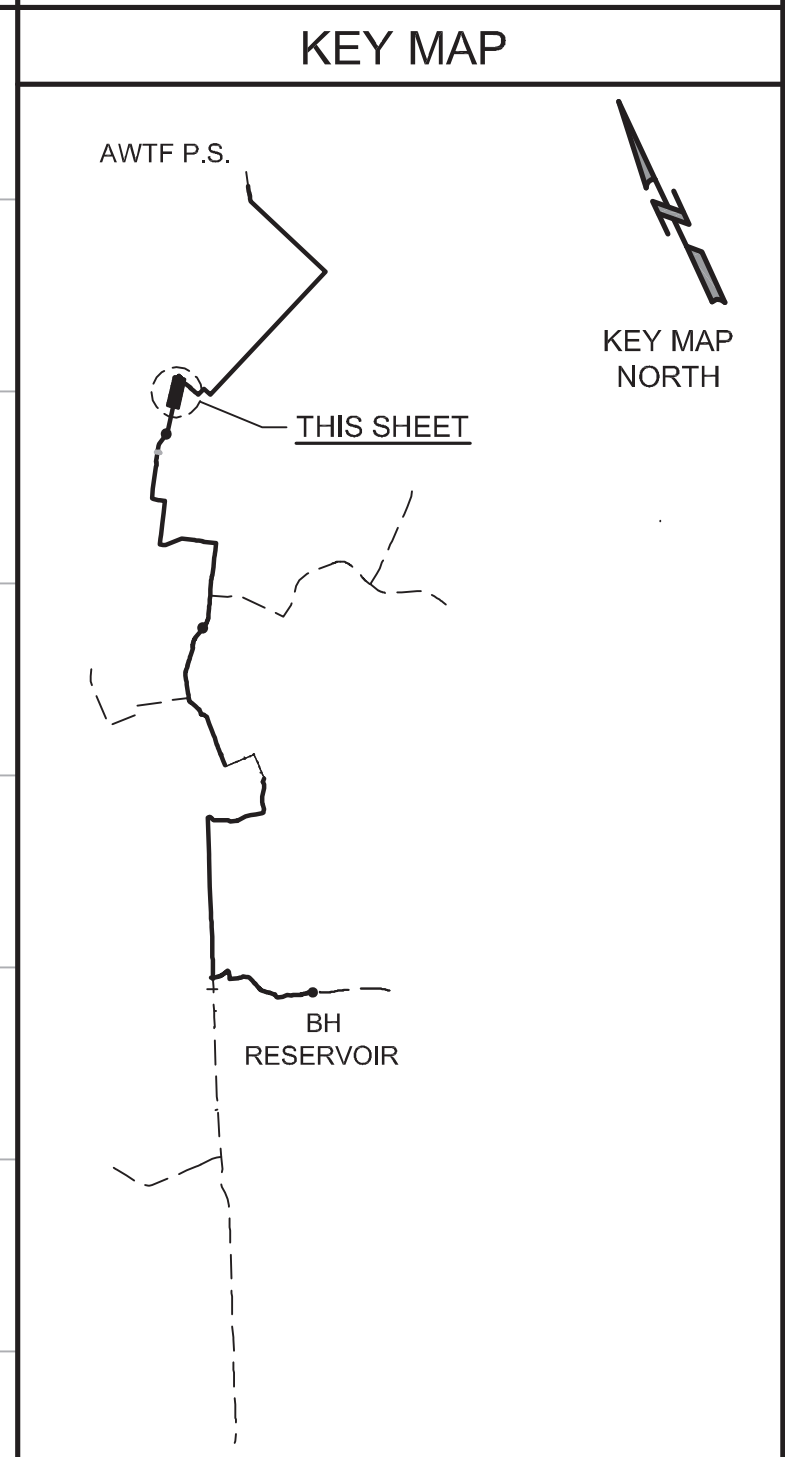
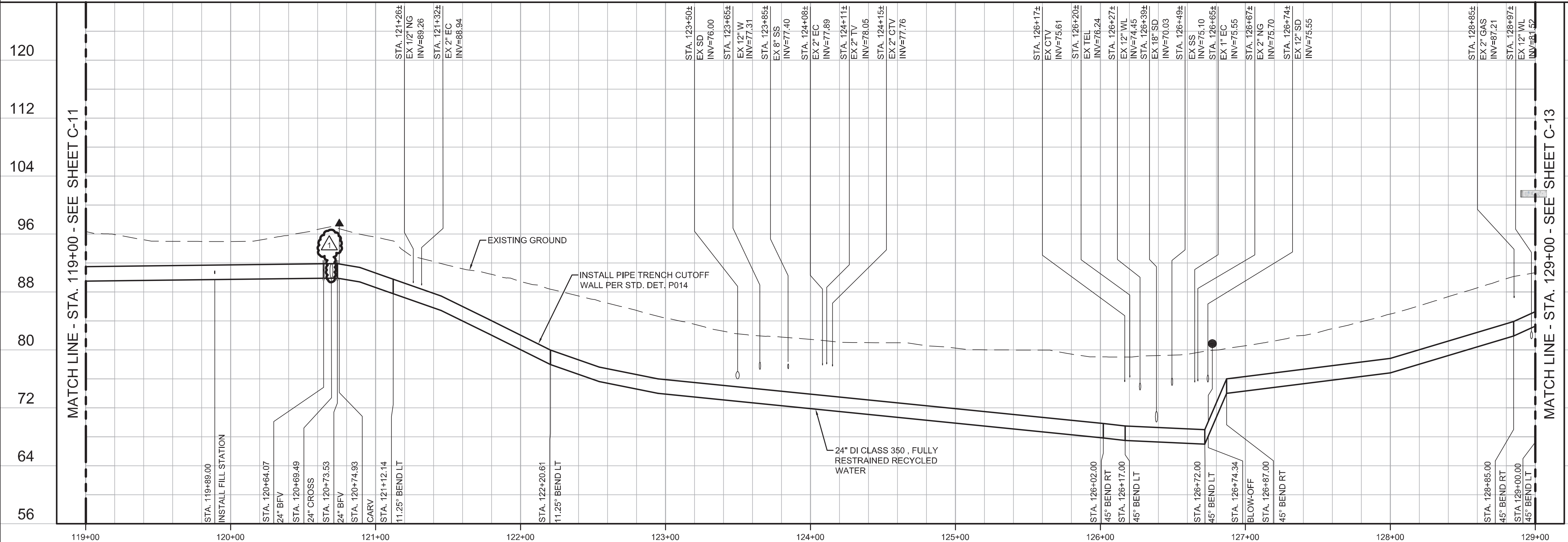
- GENERAL NOTES**
- CONSTRUCT PIPELINE WITH A MINIMUM 4' OF COVER UNLESS SHOWN OTHERWISE IN THE PROFILE TO AVOID EXISTING UTILITIES OR ACCOMMODATE FUTURE GRADES.
 - ANY CONSTRUCTION ACTIVITIES WHICH IMPACT PARKWAYS SHALL BE CONDUCTED TO MINIMIZE DISTURBANCE TO ADJACENT PROPERTY OWNERS. ANY AREAS IMPACTED SHALL BE PHOTOGRAPHED PRIOR TO CONSTRUCTION, AND RESTORED TO THEIR PRE-CONSTRUCTION CONDITION PRIOR TO CONTRACTOR DEMOBILIZATION.

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

Call before you Dig

1-800-227-2800

UNDERGROUND SERVICE (USA)

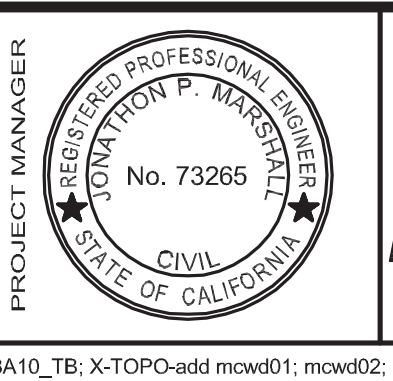


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△	06/19/17	JPM	CHANGED PER ADDENDUM 2

DESIGNED	JPM
DRAWN	BH
CHECKED	AP
DATE	MAY 2017

PROJECT ENGINEER

Digitally signed by Jonathon P. Marshall
 Contact Info: Carollo Engineers, Inc.
 Date: 2017.06.12 13:58:40-07007



REGIONAL URBAN WATER AUGMENTATION PROJECT

RECYCLED WATER PIPELINE

CIVIL

PLAN AND PROFILE

STA. 119+00 TO STA. 129+00

VERIFY SCALES	JOB NO.
BAR IS ONE INCH ON ORIGINAL DRAWING	7568A.10
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	C-12
	SHEET NO.
	20 OF 93

GENERAL NOTES

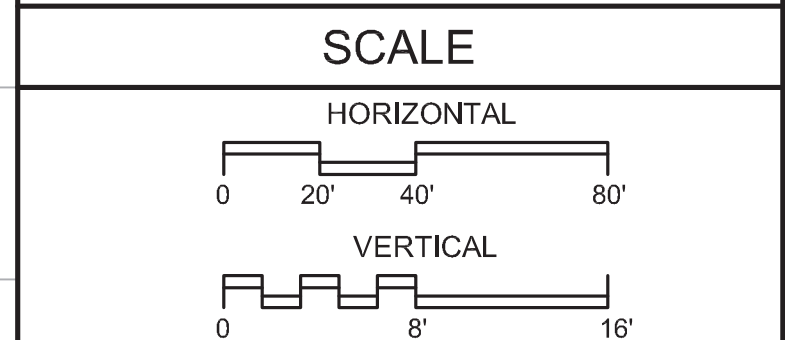
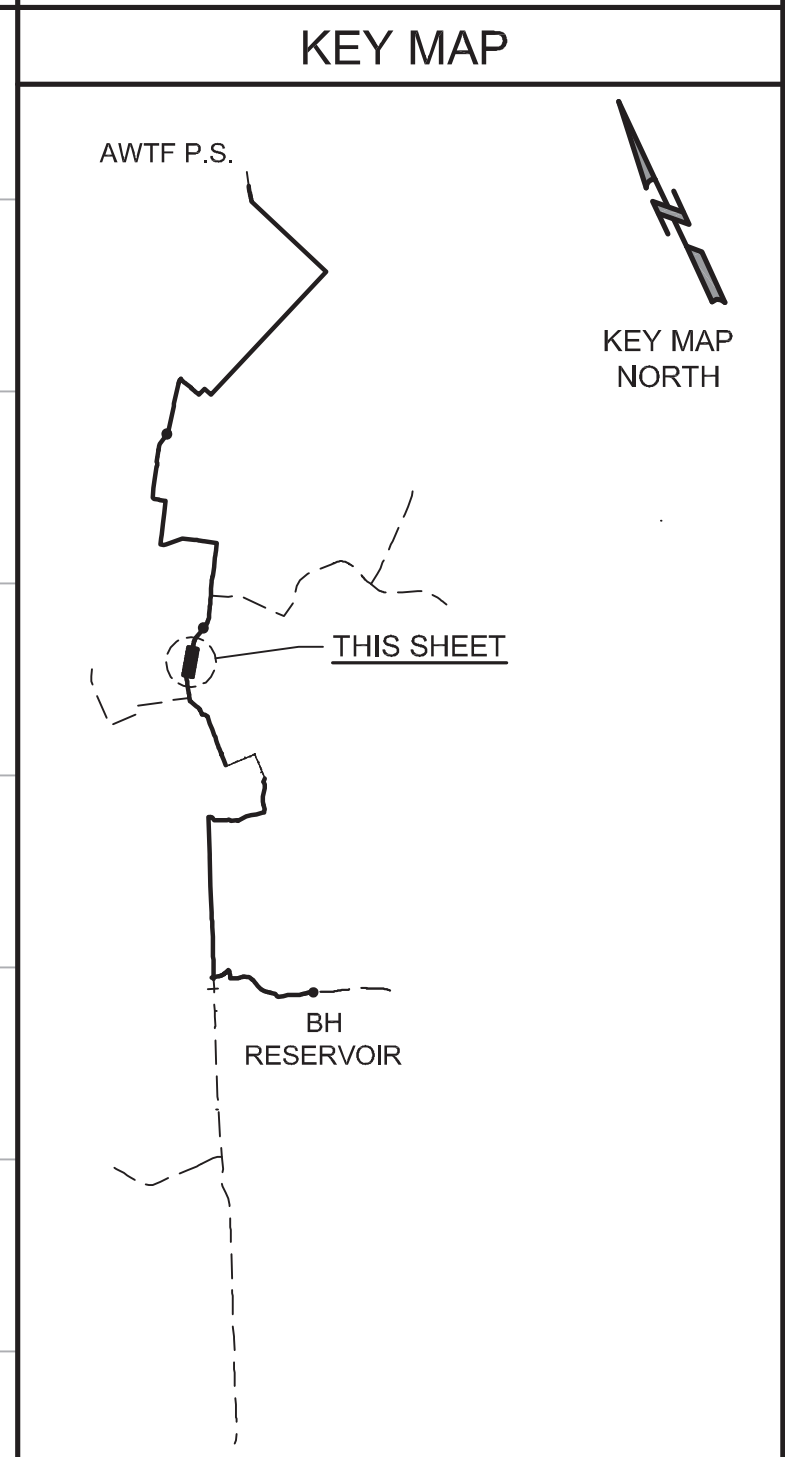
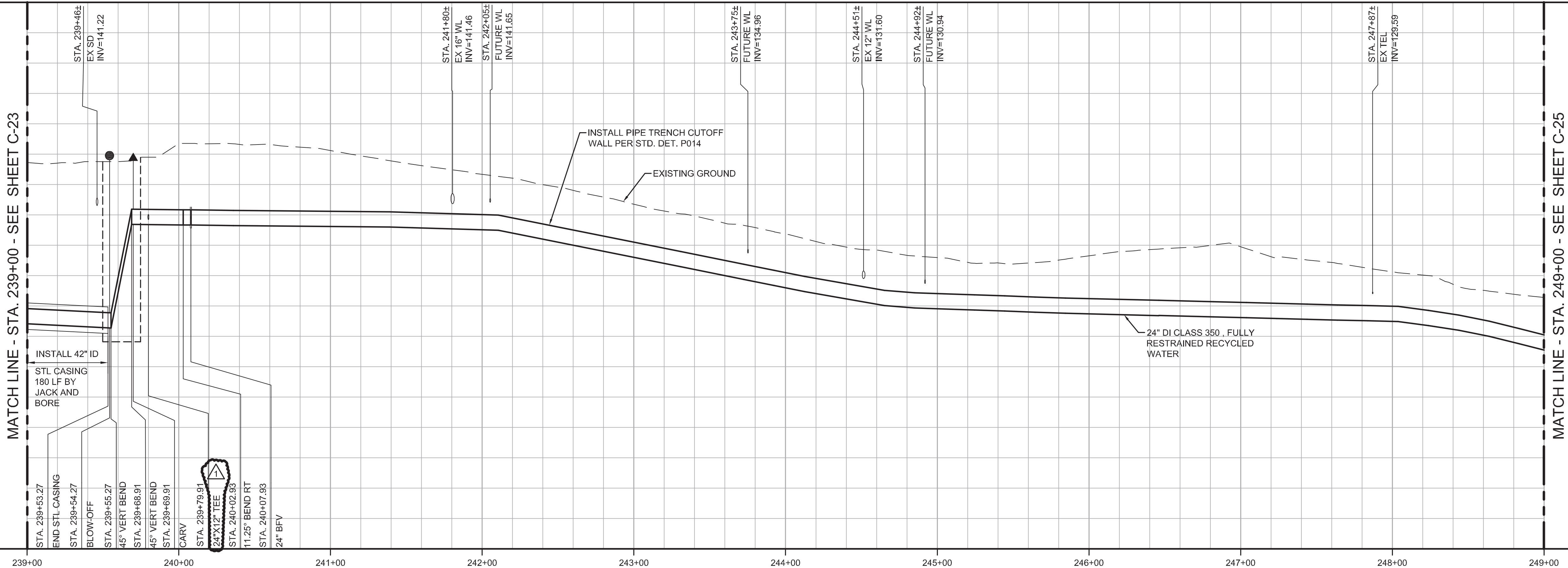
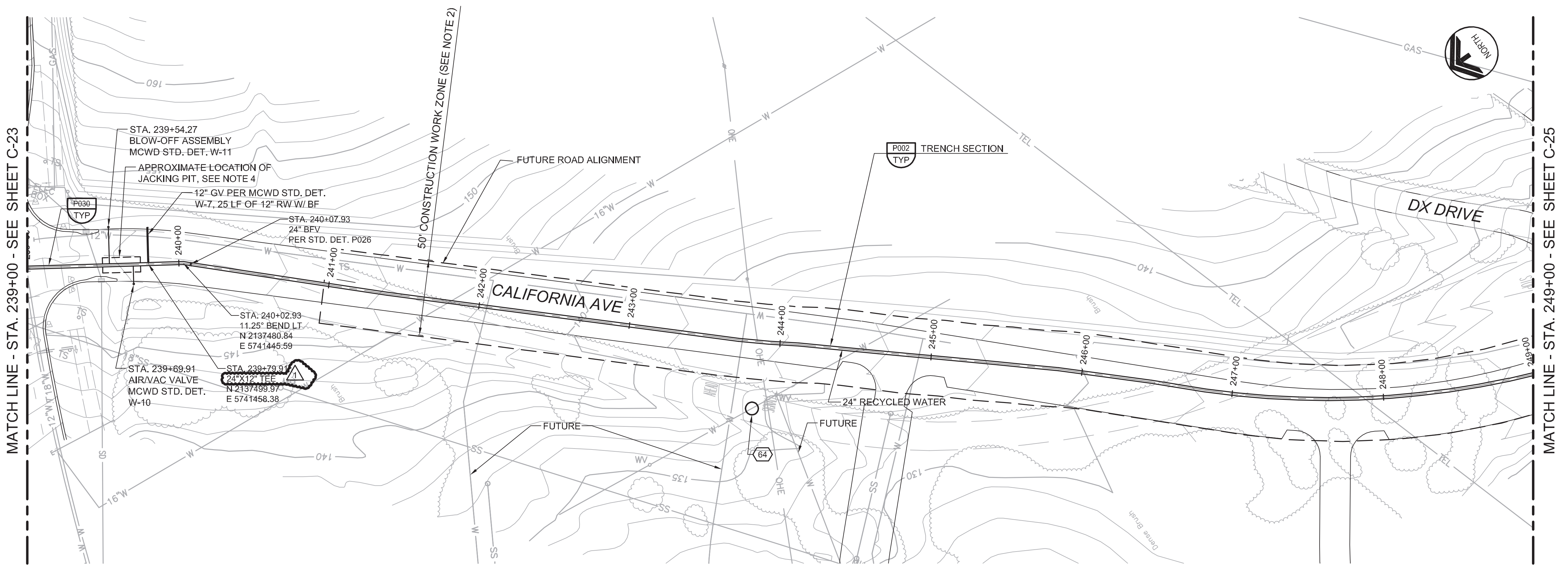
1. CONSTRUCT PIPELINE WITH A MINIMUM 4' OF COVER UNLESS SHOWN OTHERWISE IN THE PROFILE TO AVOID EXISTING UTILITIES OR ACCOMMODATE FUTURE GRADES.
2. PIPELINE INSTALLATION IN OFF-ROAD AREAS BETWEEN STA 241+13.18 AND 249+74.78 SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF MARINA ENCROACHMENT PERMIT CONDITIONS. THE CONTRACTOR IS RESTRICTED TO A 50-FOOT WORK ZONE CENTERED ON THE PIPELINE.
3. ANY CONSTRUCTION ACTIVITIES WHICH IMPACT PARKWAYS SHALL BE CONDUCTED TO MINIMIZE DISTURBANCE TO ADJACENT PROPERTY OWNERS. ANY AREAS IMPACTED SHALL BE PHOTOGRAPHED PRIOR TO CONSTRUCTION, AND RESTORED TO THEIR PRE-CONSTRUCTION CONDITION PRIOR TO CONTRACTOR DEMOBILIZATION.
4. EXACT LOCATIONS AND DIMENSIONS OF JACKING AND RECEIVING PITS TO BE DETERMINED BY CONTRACTOR AND SUBMITTED TO ENGINEER FOR REVIEW.

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.

Call before you Dig

1-800-227-2600

UNDERGROUND SERVICE (USA)



DESIGNED	JPM
DRAWN	BH
CHECKED	AP
DATE	MAY 2017

DISCIPLINE ENGINEER

PROJECT ENGINEER
Digitally signed by Jonathon P. Marshall
Contact Info: Carollo Engineers, Inc.
Date: 2017.06.12 13:58:31-0700'



REGIONAL URBAN WATER AUGMENTATION PROJECT
RECYCLED WATER PIPELINE
CIVIL
PLAN AND PROFILE
STA. 239+00 TO STA. 249+00

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 7568A.10
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	SHEET NO. 32 OF 93

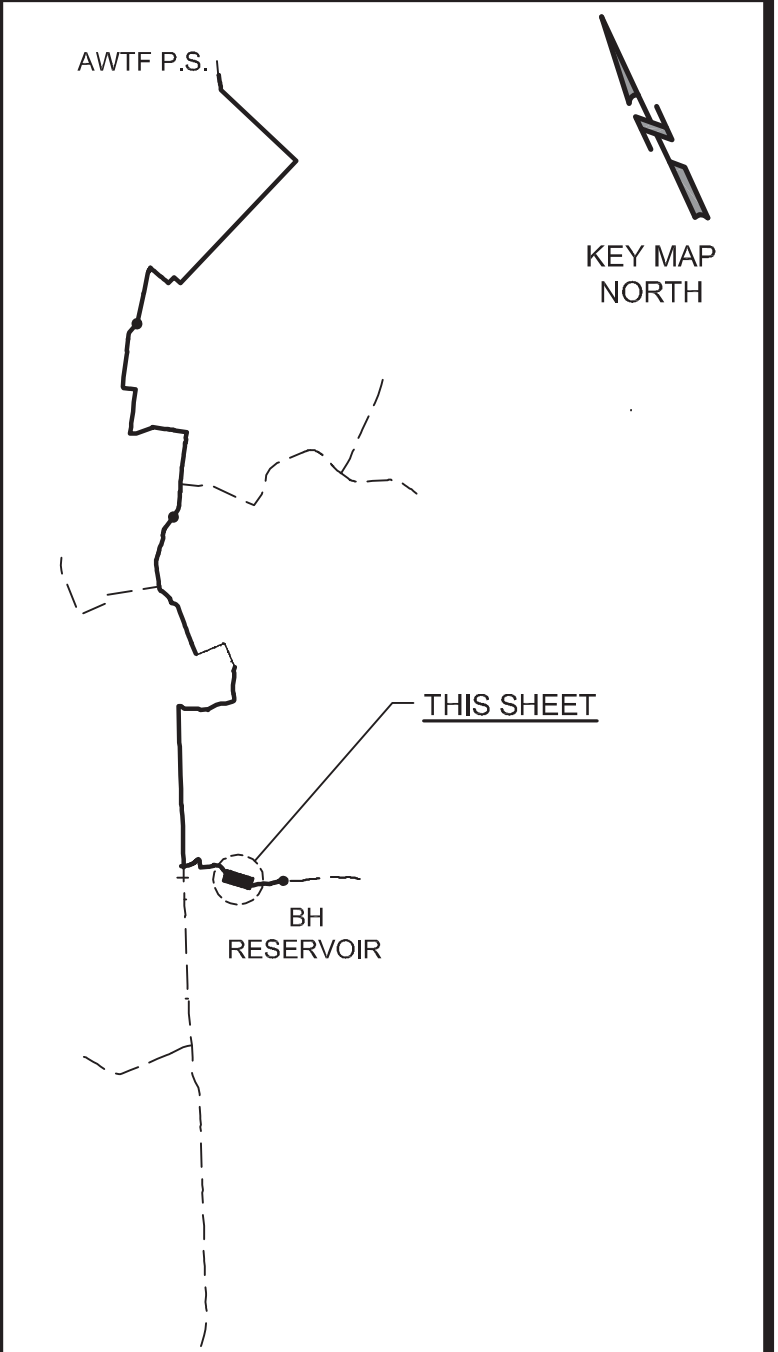
GENERAL NOTES

- CONSTRUCT PIPELINE WITH A MINIMUM 4' OF COVER UNLESS SHOWN OTHERWISE IN THE PROFILE TO AVOID EXISTING UTILITIES OR ACCOMMODATE FUTURE GRADES.

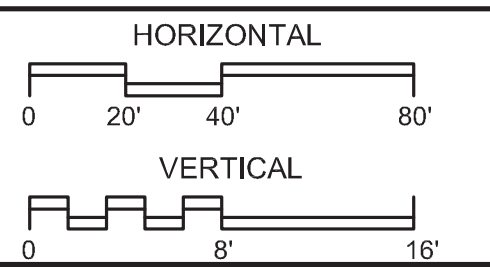
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call before you Dig
 1-800-227-2600

UNDERGROUND SERVICE (USA)

KEY MAP

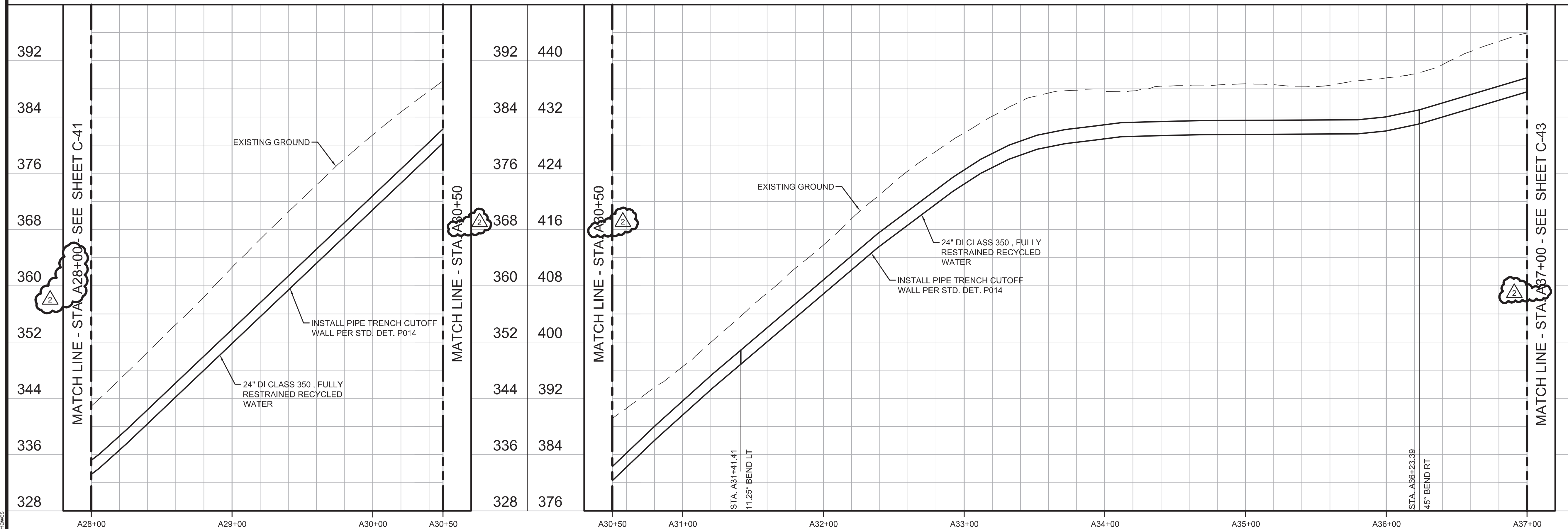
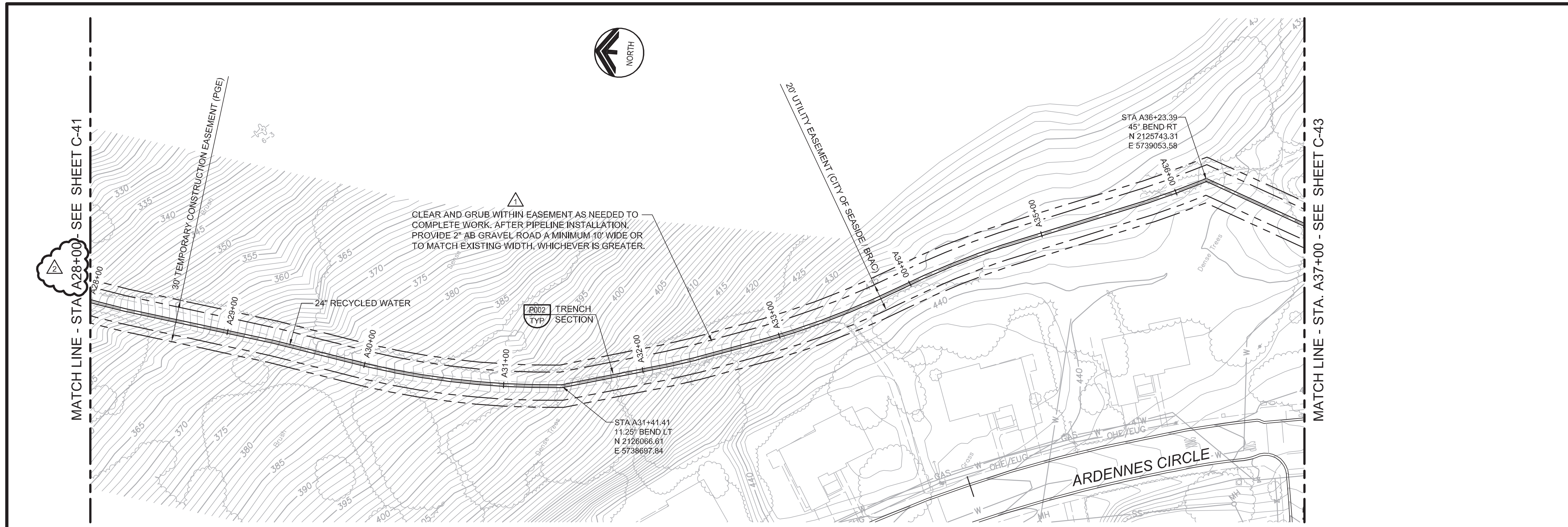


SCALE



VERIFY SCALES
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7568A.10
 DRAWING NO. C-42
 SHEET NO. 50 OF 93



REV	DATE	BY	DESCRIPTION
△	06/19/17	JPM	CHANGED PER ADDENDUM 2
△	05/19/17	JPM	CHANGED PER ADDENDUM 1

DESIGNED	JPM
DRAWN	BH
CHECKED	AP
DATE	MAY 2017

PROJECT ENGINEER
 Digitally signed by Jonathon P. Marshall
 Contact Info: Carollo Engineers, Inc.
 Date: 2017.06.12 13:58:22-0700'



REGIONAL URBAN WATER AUGMENTATION PROJECT
 RECYCLED WATER PIPELINE
 CIVIL
 PLAN AND PROFILE
 WATER LINE "A" - STA. A28+00 TO STA. A37+00

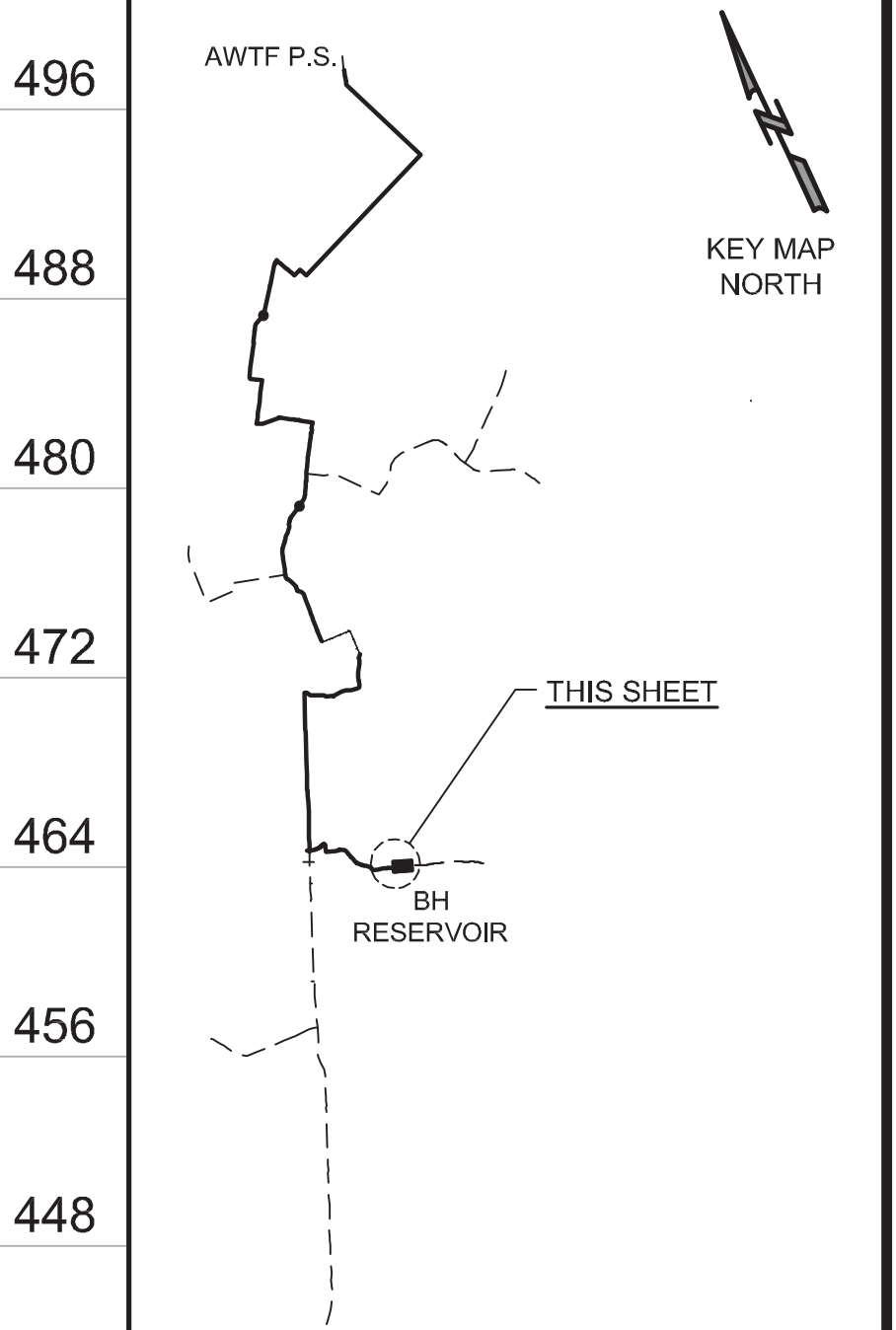
GENERAL NOTES

- CONSTRUCT PIPELINE WITH A MINIMUM 4' OF COVER UNLESS SHOWN OTHERWISE IN THE PROFILE TO AVOID EXISTING UTILITIES OR ACCOMMODATE FUTURE GRADES.

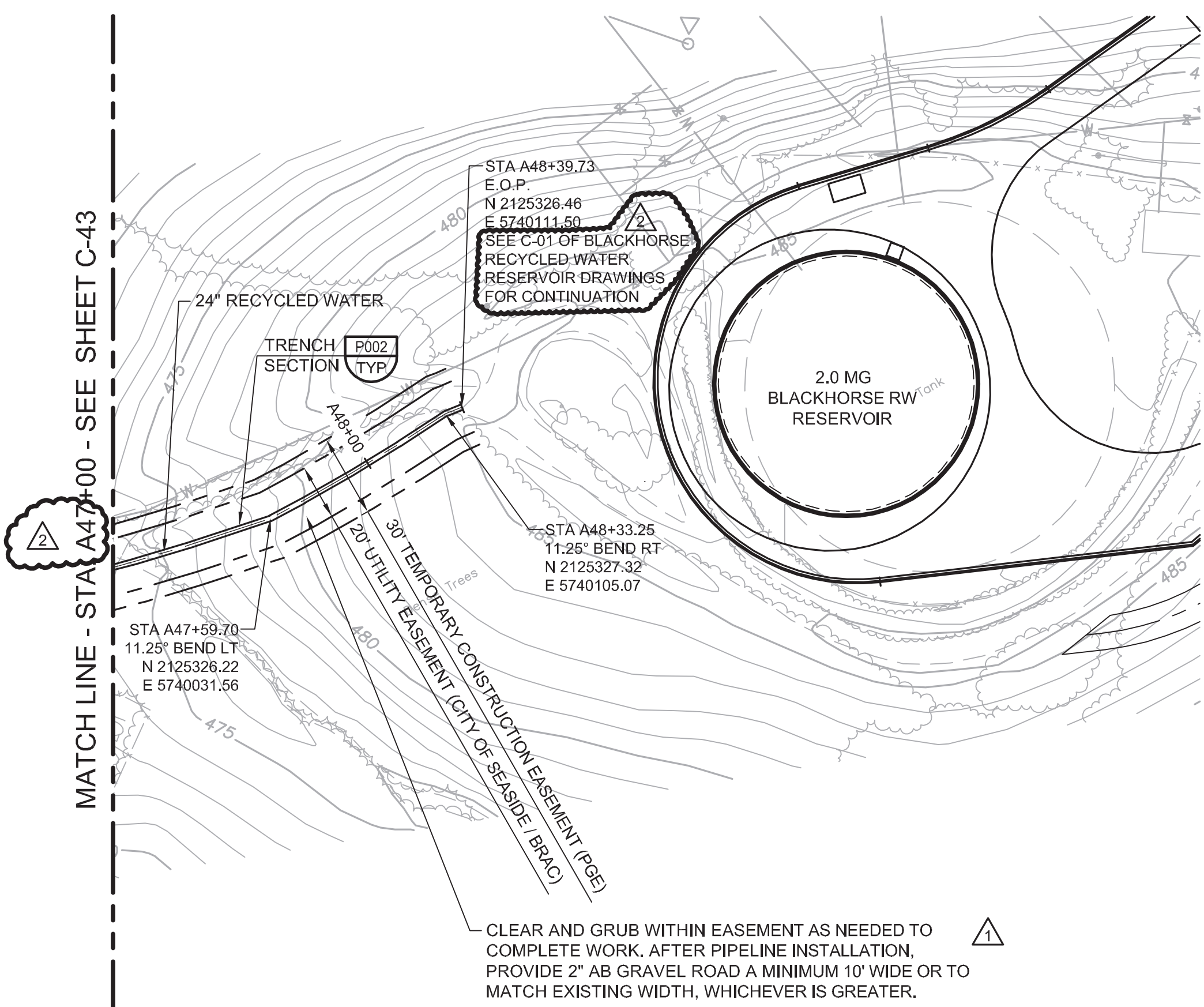
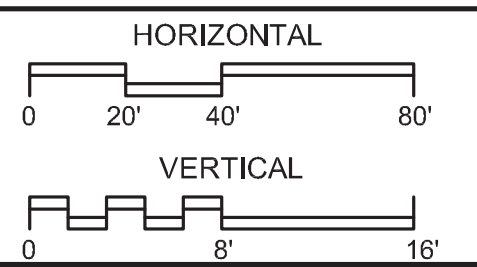
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call before you Dig
 1-800-227-2800

UNDERGROUND SERVICE (USA)

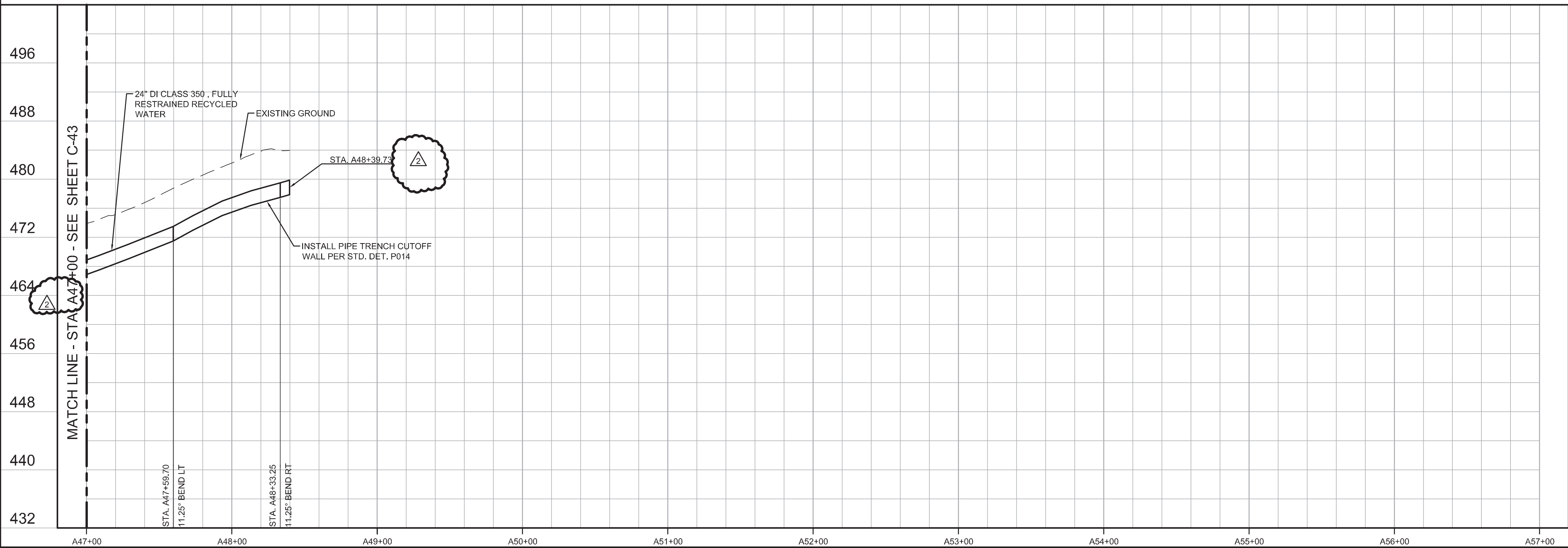
KEY MAP



SCALE



CLEAR AND GRUB WITHIN EASEMENT AS NEEDED TO COMPLETE WORK. AFTER PIPELINE INSTALLATION, PROVIDE 2" AB GRAVEL ROAD A MINIMUM 10' WIDE OR TO MATCH EXISTING WIDTH, WHICHEVER IS GREATER.



REV	DATE	BY	DESCRIPTION
△	06/19/17	JPM	CHANGED PER ADDENDUM 2
△	05/19/17	JPM	CHANGED PER ADDENDUM 1

DESIGNED	AP / AS
DRAWN	LGD
CHECKED	
DATE	MAY 2017

DISCIPLINE ENGINEER

PROJECT ENGINEER
 Digitally signed by Jonathon P. Marshall
 Contact Info: Carollo Engineers, Inc.
 Date: 2017.06.12 13:58:11-0700'

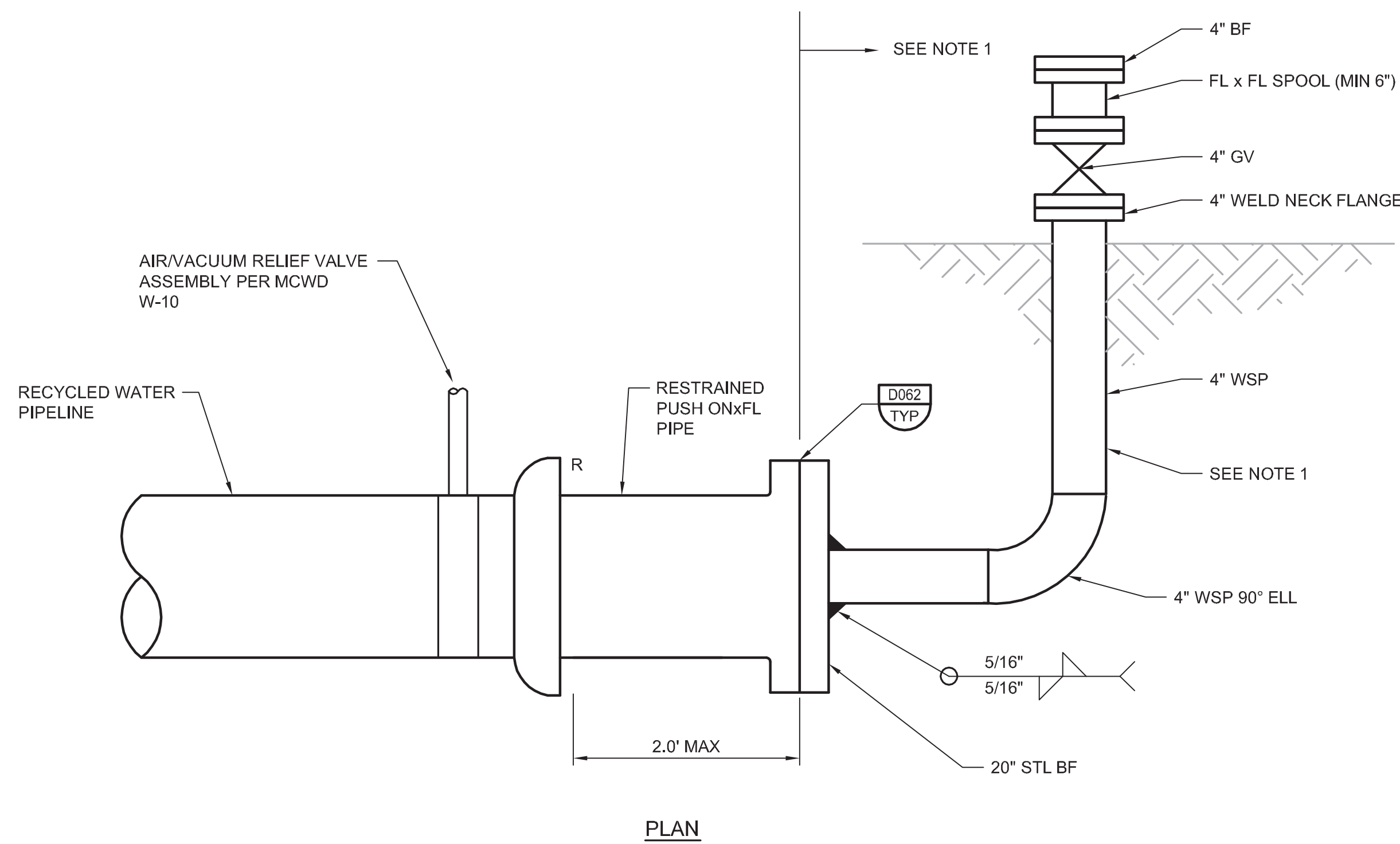


Marina Coast Water District

REGIONAL URBAN WATER AUGMENTATION PROJECT
 RECYCLED WATER PIPELINE
 CIVIL
 PLAN AND PROFILE
 WATER LINE "A" - STA. A47+00 TO STA. A48+39.73

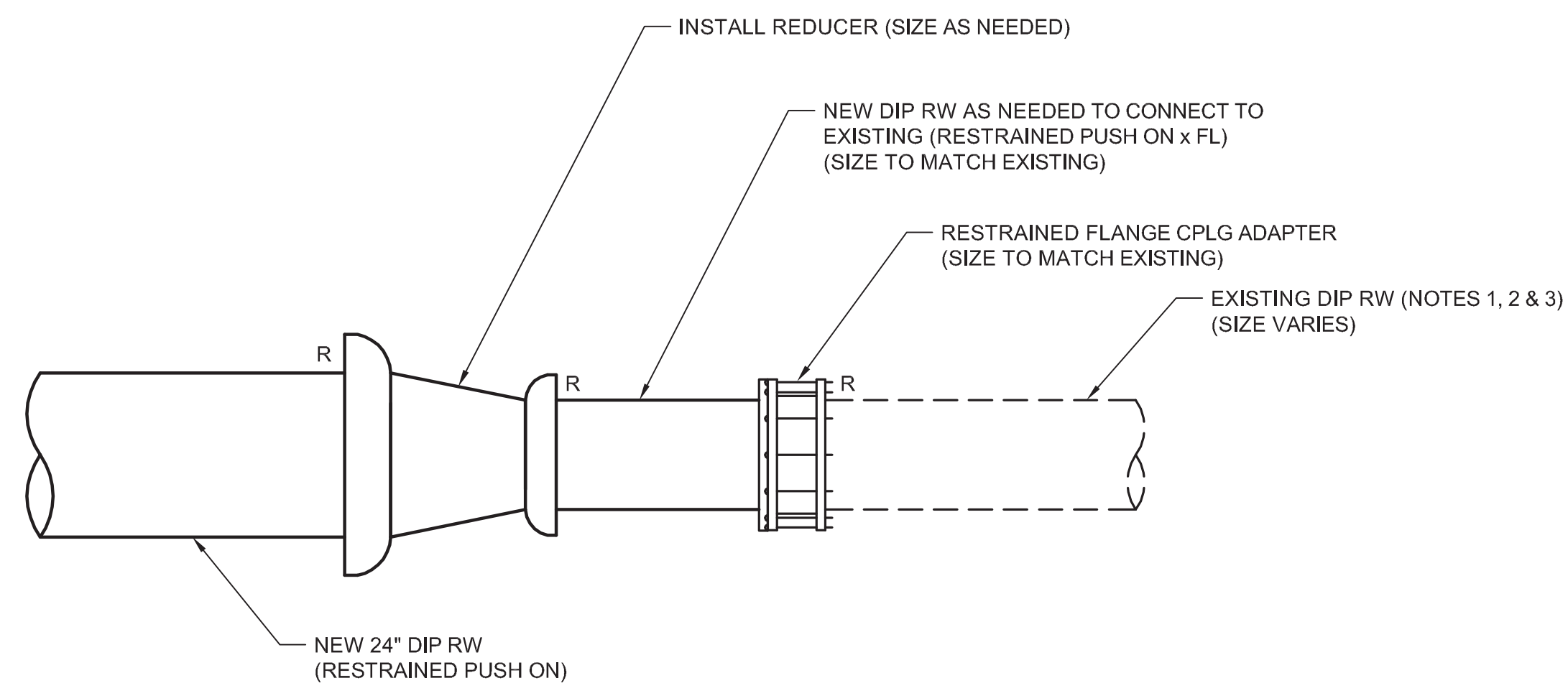
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1" 16'
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 7568A.10
 DRAWING NO. C-44
 SHEET NO. 52 OF 93



NOTES:

1. WHEN NO LONGER NEEDED FOR FILLING OR TESTING REMOVE ALL STEEL PIPING INCLUDING STEEL BF AND REPLACE WITH DI BF. INSTALL ABOVE GROUND PIPE MARKER TO MARK END OF PIPELINE. CONNECTION TO FUTURE PIPE WILL BE MADE BY OTHERS.

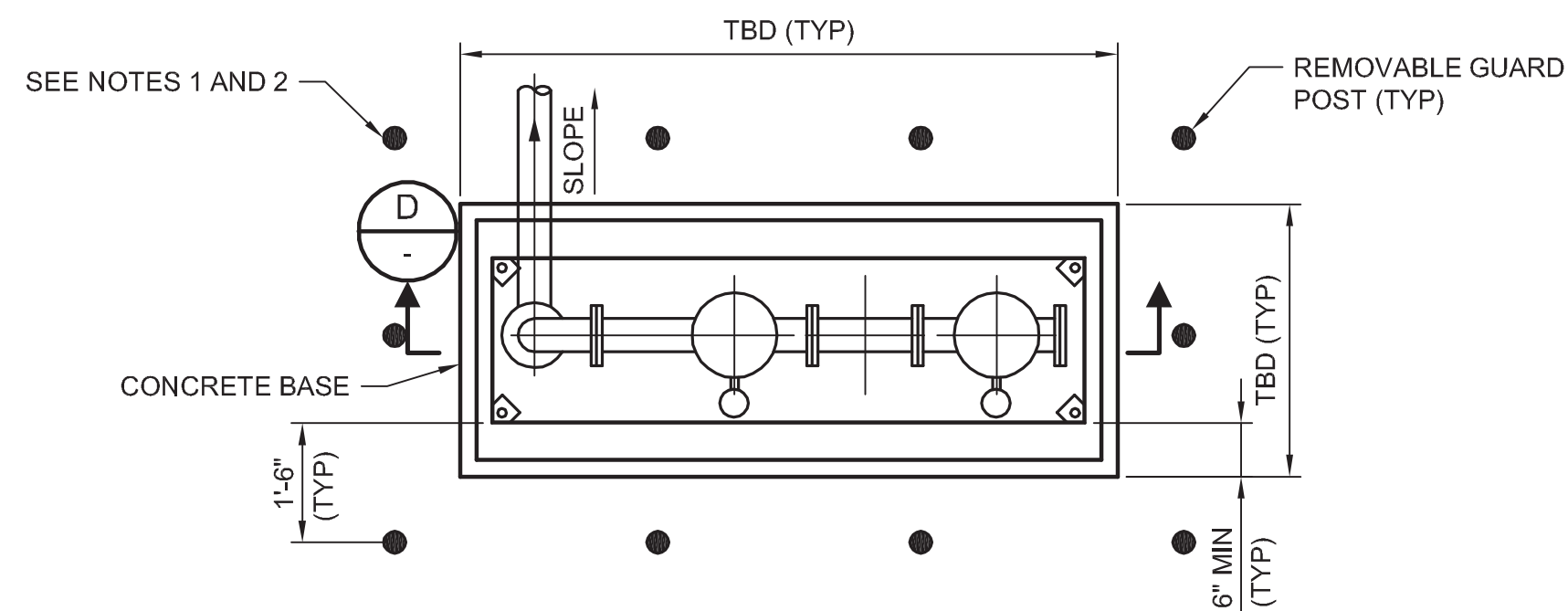


NOTES:

1. CONTRACTOR SHALL FIELD VERIFY CONDITIONS AT END OF EXISTING PIPE AT LEAST SEVEN DAYS IN ADVANCE OF CONSTRUCTION AND NOTIFY ENGINEER IF CONDITIONS ARE SIGNIFICANTLY DIFFERENT.
2. DRAIN EXISTING PIPELINE OF ALL WATER PRIOR TO MAKING CONNECTION.
3. REMOVE EXISTING CAP THRUST BLOCK AND TEMPORARY ARV AT THE END OF EXISTING RW MAIN PRIOR TO MAKING CONNECTION.

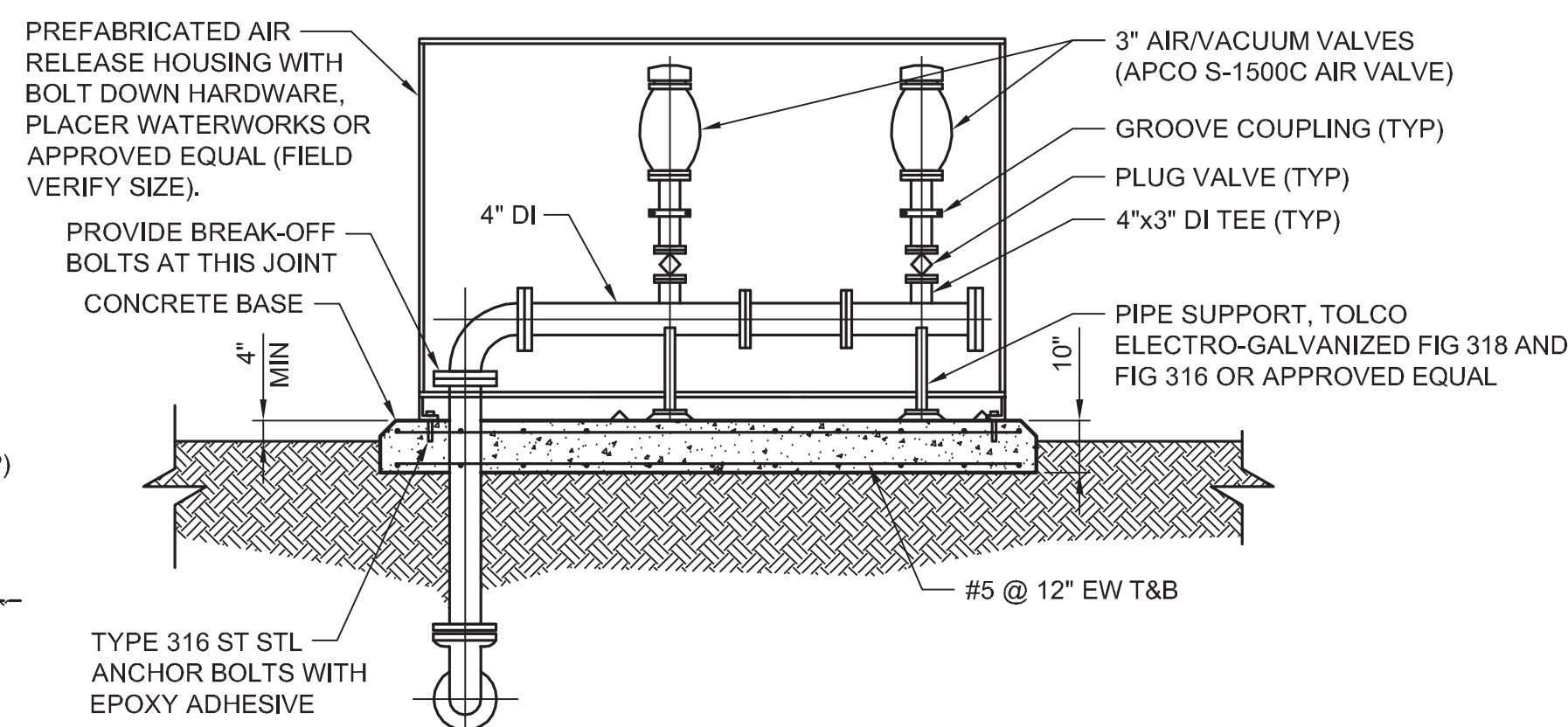
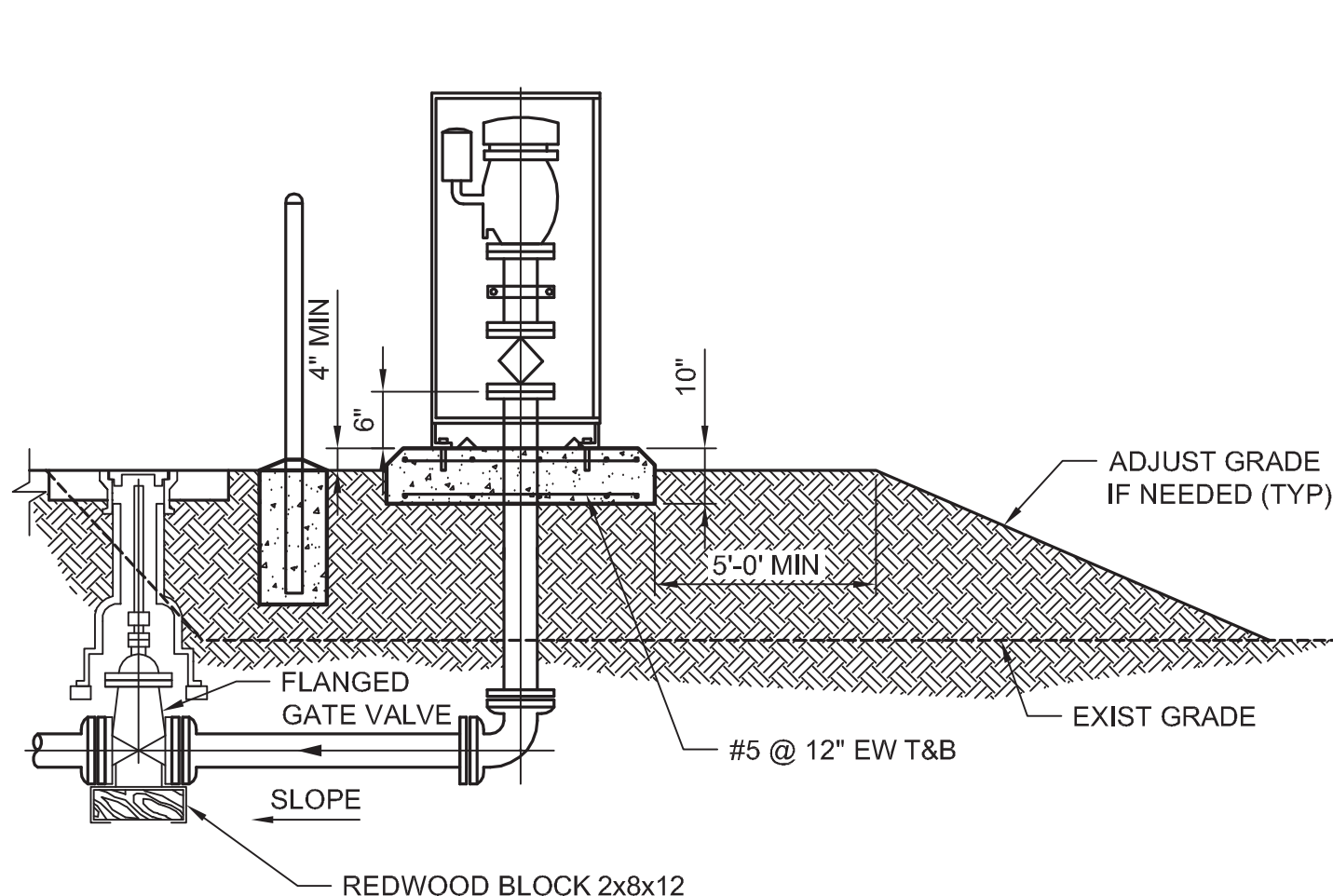
D FINISHED WATER PIPELINE CONNECTION
SCALE: N.T.S.

A TEMPORARY BLOW OFF DETAIL
SCALE: N.T.S.

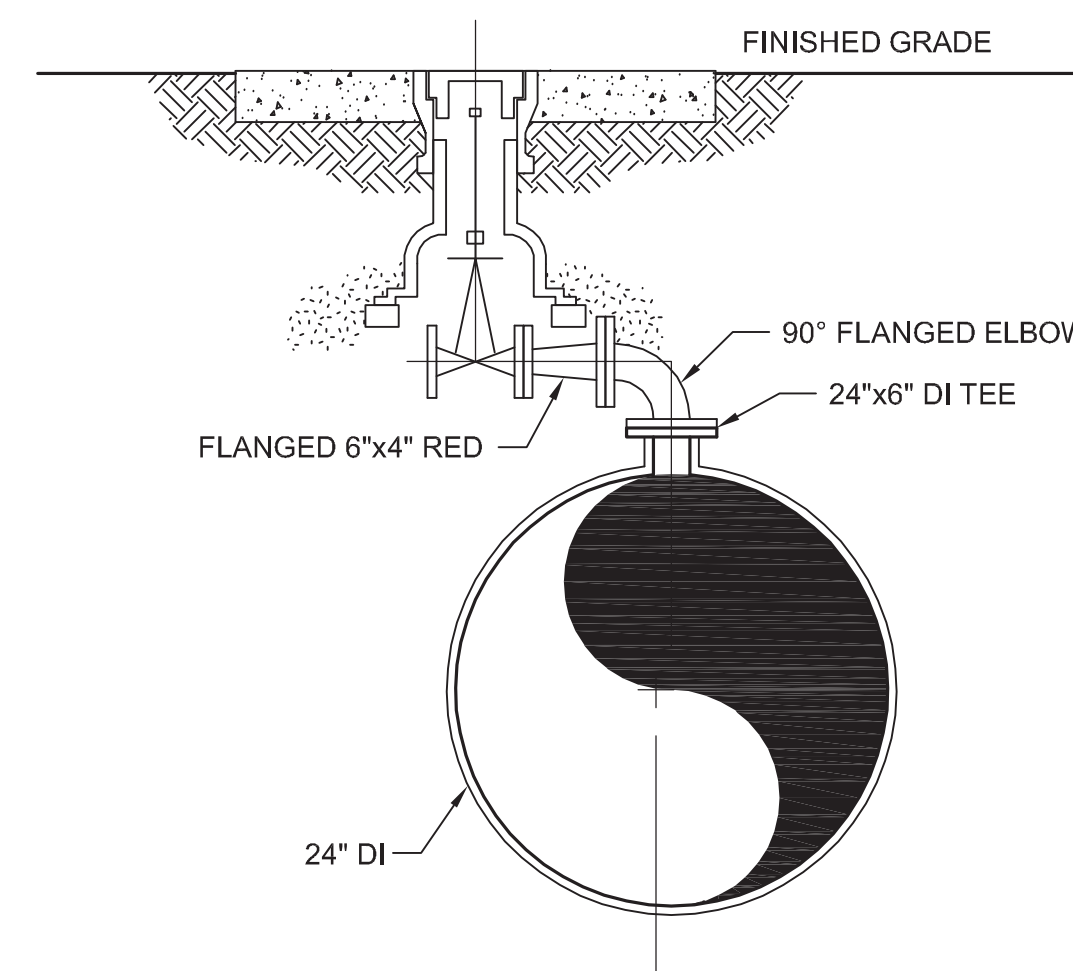


NOTES:

1. MASTIC COAT THE VALVE. TAPE WRAP THE LATERAL PIPING.
2. PROVIDE MECHANICAL RESTRAINT AT ALL MJ CONNECTIONS.



B DUAL 3\"/> SCALE: N.T.S.



Last Opened by: 6/12/17 07:27am BHawes

REV	DATE	BY	DESCRIPTION
06/19/17	JPM		CHANGED PER ADDENDUM 2

DESIGNED	AP
DRAWN	LGD
CHECKED	KVA / GWS
DATE	MAY 2017

DISCIPLINE ENGINEER

PROJECT ENGINEER
Digitally signed by Jonathon P. Marshall
Contact Info: Carollo Engineers, Inc.
Date: 2017.06.12 13:58:01-07007



Marina Coast Water District

REGIONAL URBAN WATER AUGMENTATION PROJECT
RECYCLED WATER PIPELINE
CIVIL
PIPELINE - DETAILS, BAYONET & BLACKHORSE GOLF COURSE CONNECTION

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

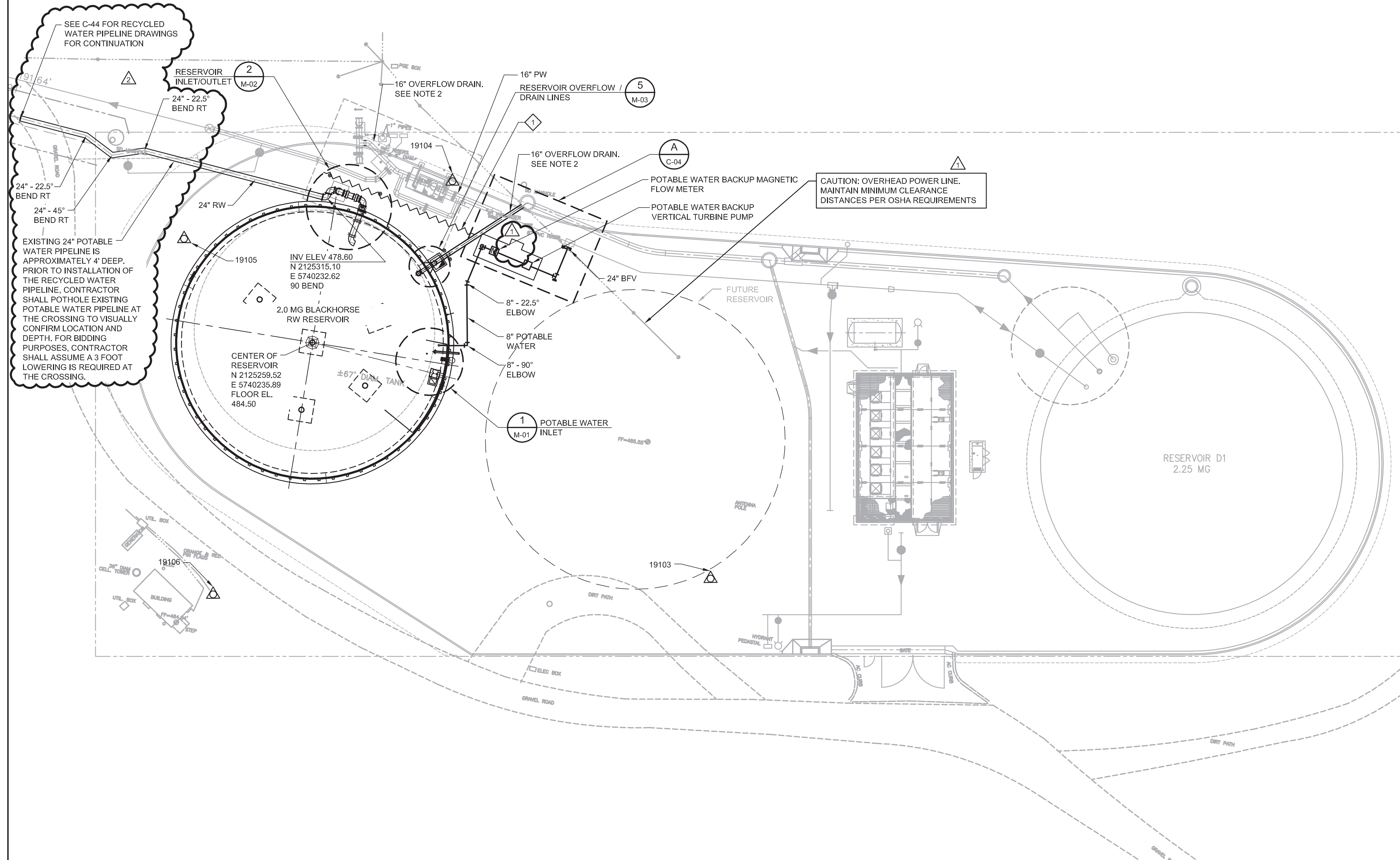
JOB NO. 7568A.10
DRAWING NO. C-45
SHEET NO. 53 OF 93

GENERAL NOTES

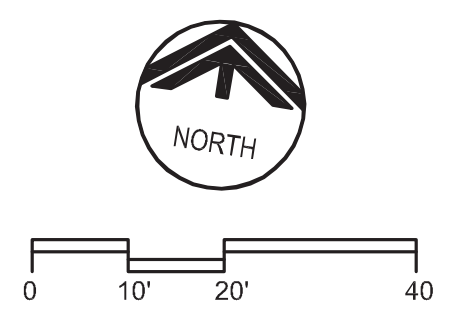
- CONTRACTOR SHALL FIELD VERIFY ELEVATION OF ALL EXISTING PIPING AND ELECTRICAL DIRECT BURIED CABLES PRIOR TO CONSTRUCTION. PIPING AND UNDERGROUND INFRASTRUCTURE SHALL REMAIN IN SERVICE AT ALL TIMES. PROVIDE SHORING AS REQUIRED AND PROTECT ALL EXISTING UNDERGROUND INFRASTRUCTURE FROM DAMAGE DURING CONSTRUCTION.
- SLOPE 16" OVERFLOW/DRAIN PIPE SUCH THAT IT PASSES BELOW THE 24" POTABLE WATER PIPING WITH A MINIMUM OF 12" OF CLEARANCE.

KEY NOTES

- PROVIDE TEMPORARY SHORING AS REQUIRED TO PROTECT EXISTING UTILITIES DURING DEMOLITION OF EXISTING TANKS AND DURING EXCAVATION FOR NEW TANK SUB-GRADE. SEE DRAWING S-02 FOR NEW TANK SUB-GRADE REQUIREMENTS. SHORING SHALL BE IN ACCORDANCE WITH SECTION 02266.



PLAN
SCALE: 1" = 20'



REV	DATE	BY	DESCRIPTION
2	06/19/17	JPM	CHANGED PER ADDENDUM 2
1	05/19/17	JPM	CHANGED PER ADDENDUM 1

DESIGNED	RRH
DRAWN	SJB
CHECKED	BH
DATE	APRIL 2017

PROJECT ENGINEER
Digitally signed by Jonathon P. Marshall
Contact Info: Carollo Engineers, Inc.
Date: 2017.06.12 13:57:38-0700'



Marina Coast Water District

REGIONAL URBAN WATER AUGMENTATION PROJECT
BLACKHORSE RECYCLED WATER RESERVOIR
CIVIL
FINISHED SITE PLAN & YARD PIPING

VERIFY SCALES	JOB NO. 7568A.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. C-01
0 1" 1"	SHEET NO. 61 OF 93
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

FILENAME: