

MARINA COAST WATER DISTRICT REGIONAL URBAN WATER AUGMENTATION PROJECT RECYCLED WATER PIPELINE AND BLACKHORSE

RESERVOIR
CIP # RW-0156
VOLUME 2 OF 2

MAY 2017

SHEET INDEX

RECYCLED WATER PIPELINE

PLAN AND PROFILE - STA. 9+95.85 TO STA. 19+00
PLAN AND PROFILE - STA. 19+00 TO STA. 29+00
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CONNECTION

PLAN AND PROFILE - WATER LINE 'A' STA. A10+00 TO STA. A19+00 PLAN AND PROFILE - WATER LINE 'A' STA. A19+00 TO STA. A28+00 PLAN AND PROFILE - WATER LINE 'A' STA. A28+00 TO STA. A37+00

PLAN AND PROFILE - WATER LINE 'A' STA. A37+00 TO STA. A47+00 PLAN AND PROFILE - WATER LINE 'A' STA. A47+00 TO A48+39.73

COVER SHEET

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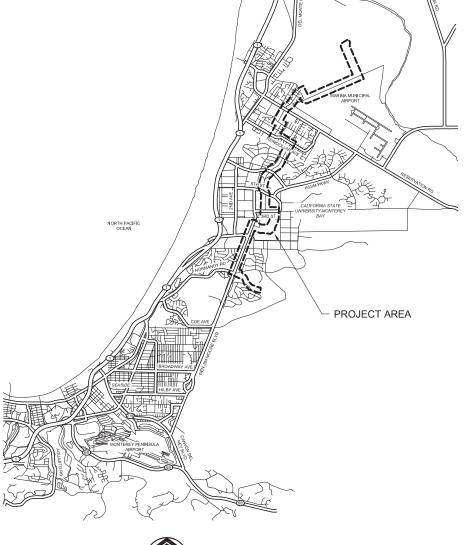
SURVEY CONTROL POINTS
PAVING PLAN - 2
PAVING PLAN - 3

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BLACKHORSE RECYCLED WATER RESERVOIR

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92	CP-06	TANK BOTTOM EXTERIOR DETAILS

TANK EXTERIOR DETAILS





LOCATION MAP

APPROVED:

Digitally signed by Anne Pru Contact Info: Carollo Engine Inc. Date: 2017.05.19 16:06:03-0

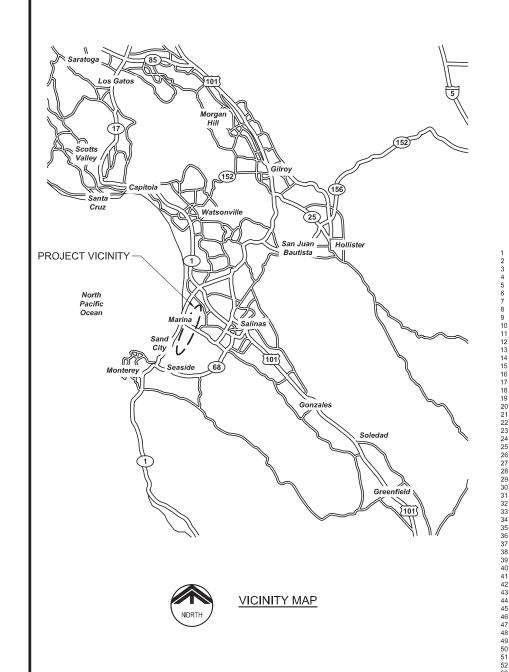


MICHAEL WEGLEY DATE DISTRICT ENGINEER

SUBMITTED:

R.C.E. 66426

ANNE PRUDHEL, P.E.
CAROLLO ENGINEERS



Avoid cutting underground utility lines. It's costly.

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



Engineers...Working Wonders With Water™

2700 YGNACIO VALLEY ROAD, SUITE 300 WALNUT CREEK, CA. 94548 925-932-1710

GENERAL NOTES

REFER TO DRAWINGS 53A AND 53B AND SPECIFICATION APPENDIX E FOR DETAILS DENOTED BY XXX AND NOWD 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 /1 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
- 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
- ALL WORK WITHIN PRIVATE EASEMENTS SHALL BE PERFORMED IN ACCORDANCE WILL 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

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 SURVEYS (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

TURNOUT SCHEDULE

STATION	LOCATION	CONNNECTION TYPE	CONNECTION DIAMETER	
119+89.00	ARMSTRONG RANCH NEAR CRESCENT AVE	TEE 6		
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+42	CALIFORNIA AVE AND 3RD AVE	TEE	6	
239+79.91	CALIFORNIA AVE AND IMJIM PKWY	TEE	8	
256+47.09	5TH AVE AND 9TH STREET	TEE	12	
256+85.00	5TH AVE AND 9TH STREET	TEE	6	
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	
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 ENCASEMENT CONDUITS AND NO WATER LOCATED UNDER ENCASEMENT
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 (X)

LGD CHECKED 05/19/17 JPM CHANGED PER ADDENDUM 1 DATE BY DESCRIPTION MAY 2017

ontact Info: Carollo Engineers Date: 2017 05 19 16:42:34-07'00







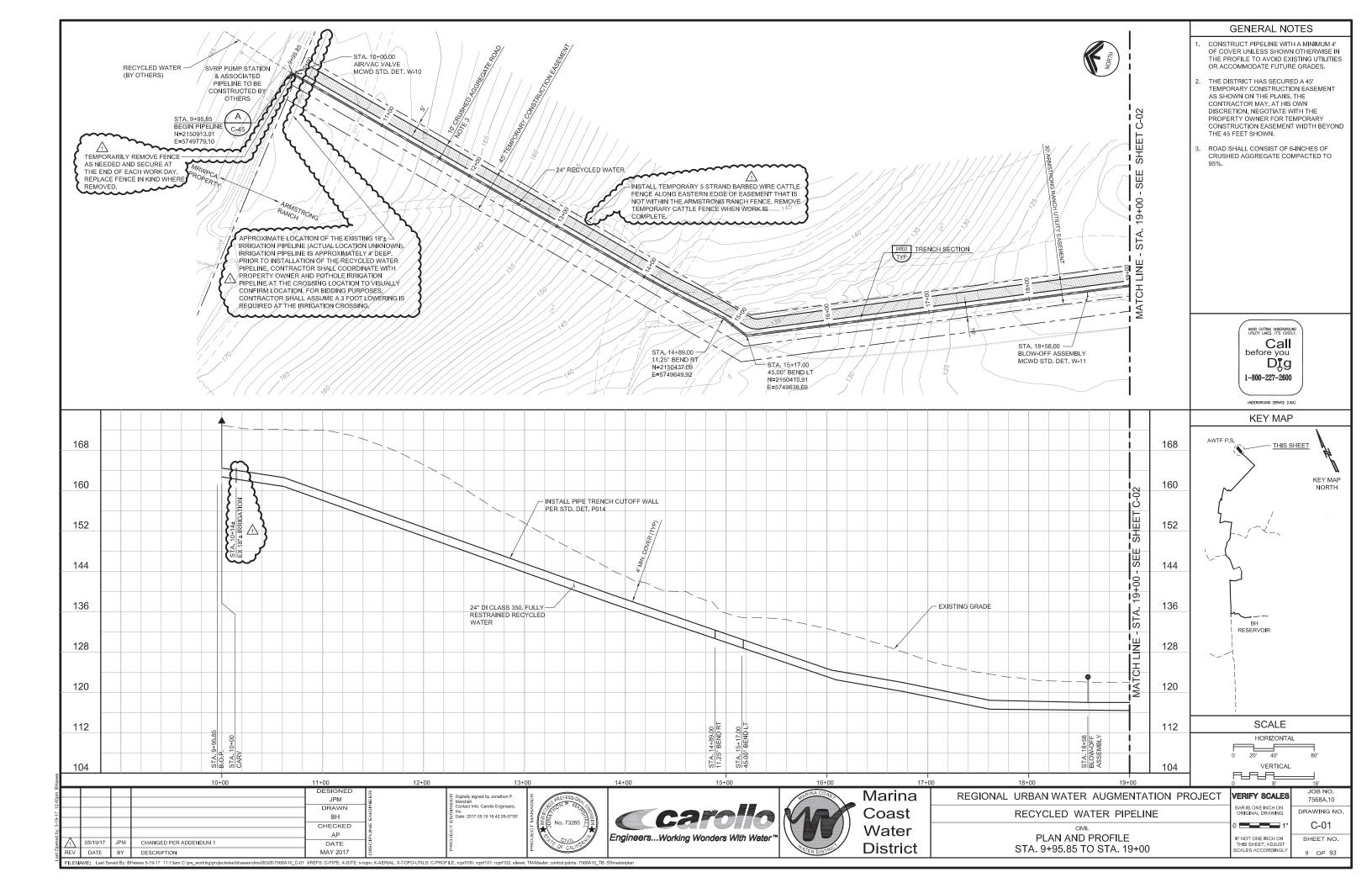
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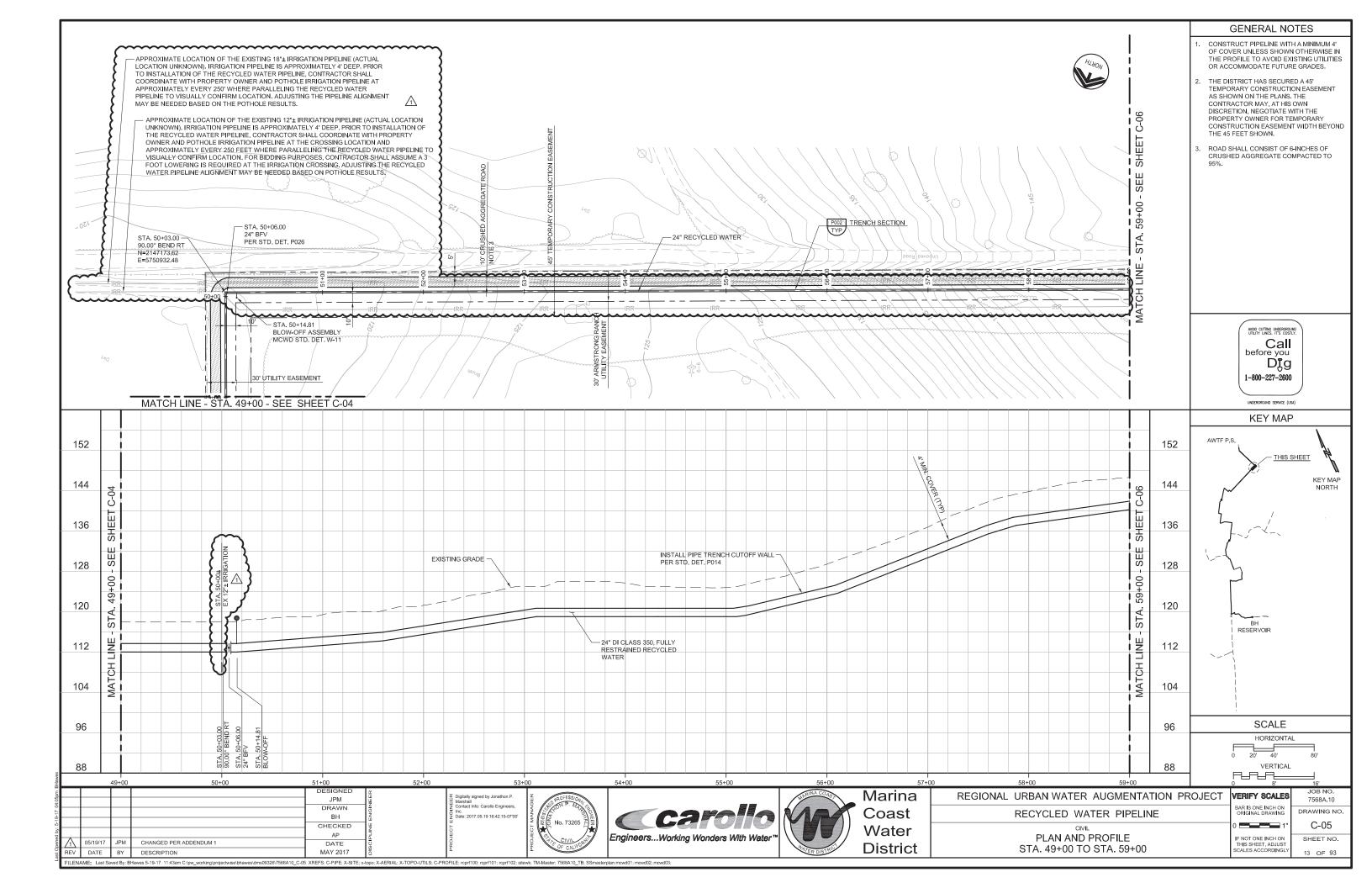
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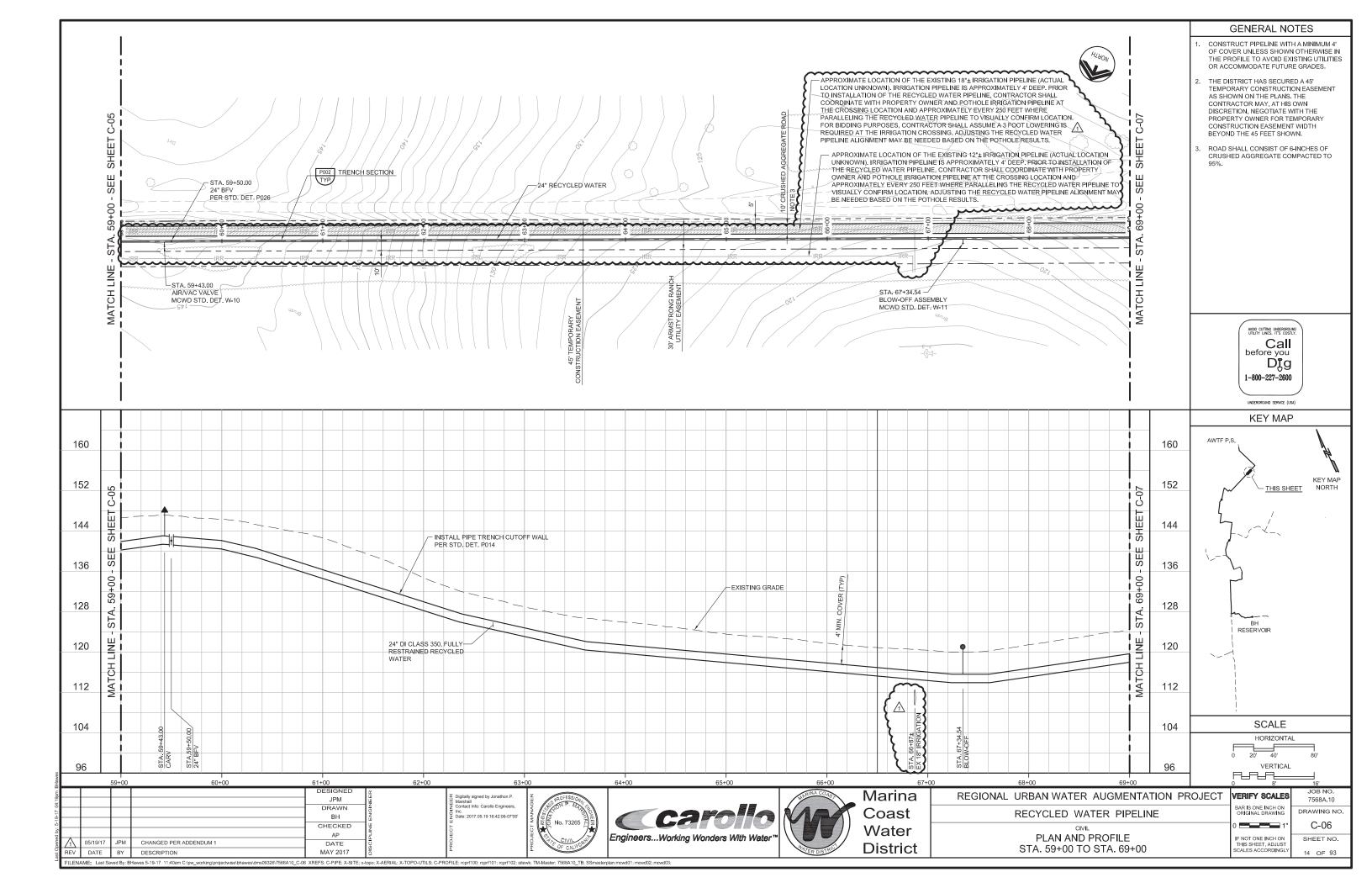
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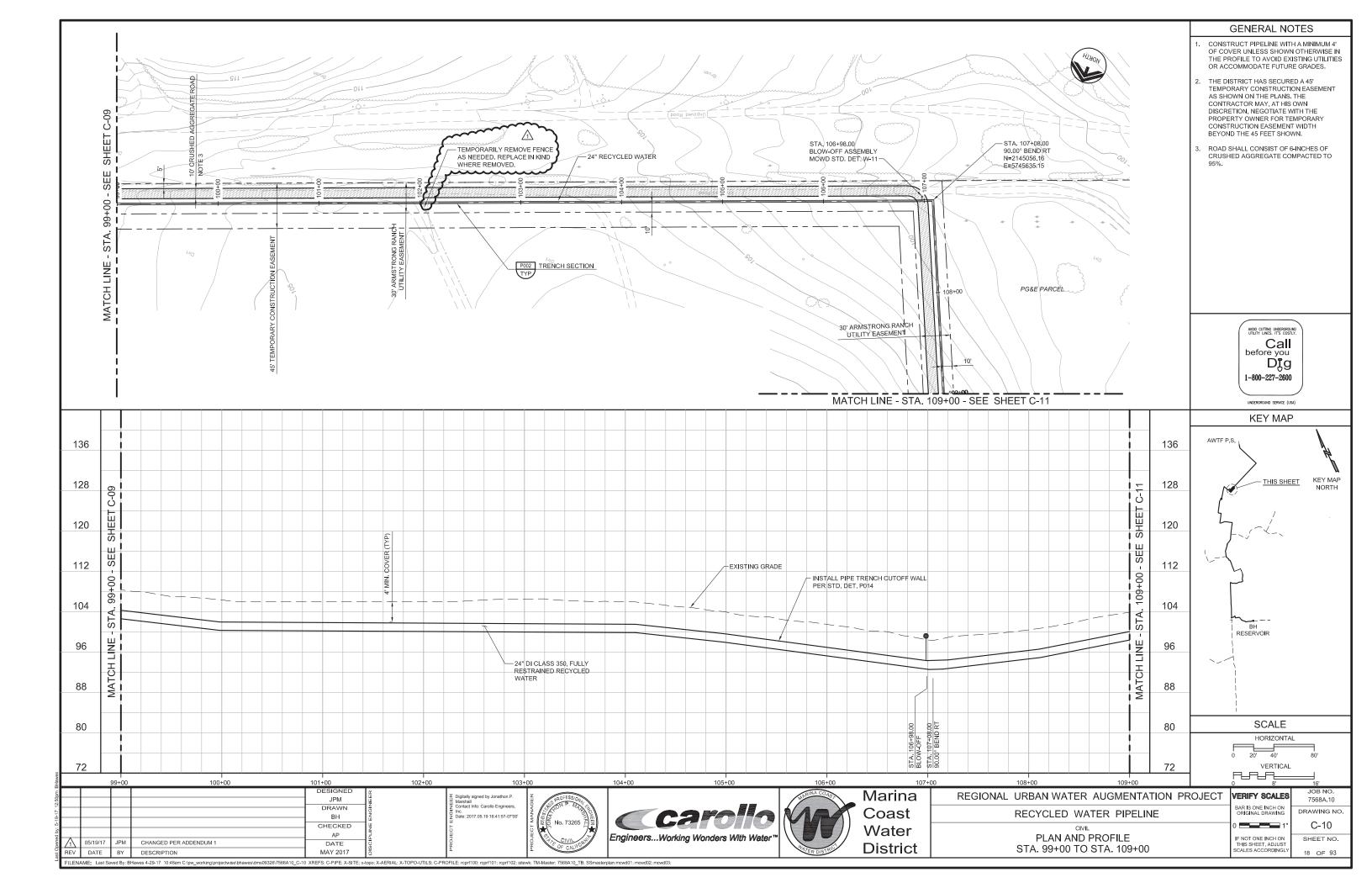
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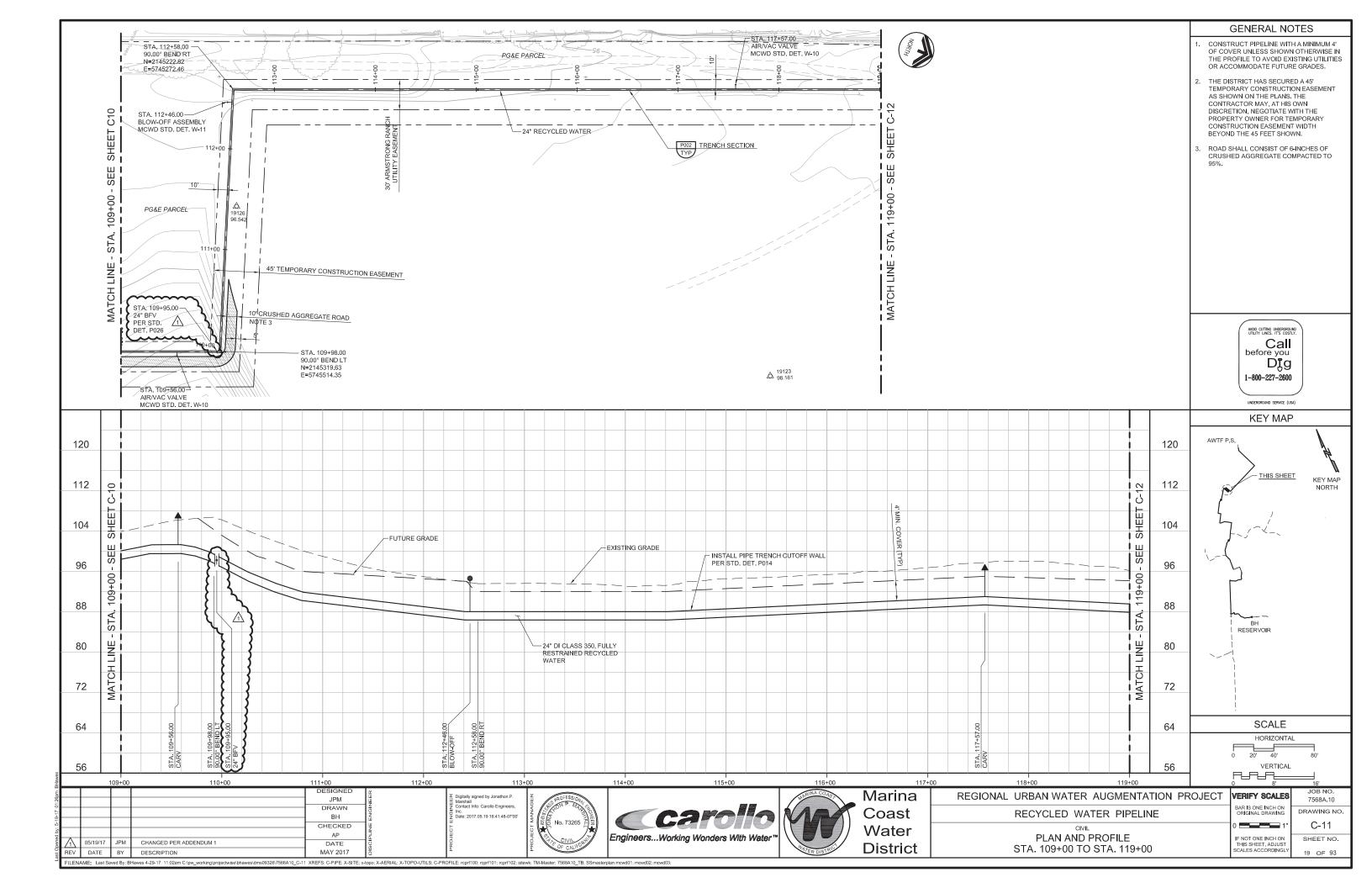
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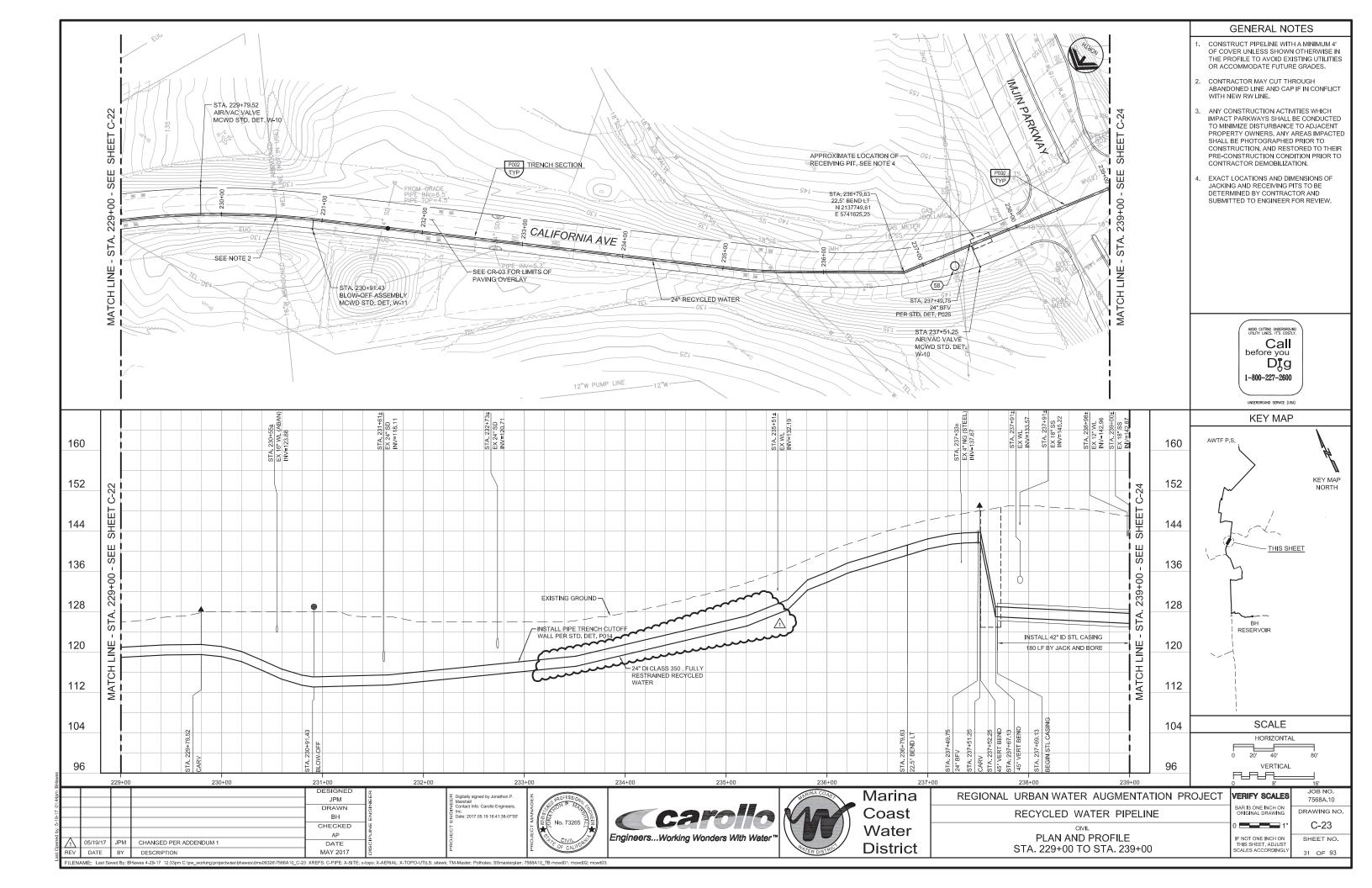


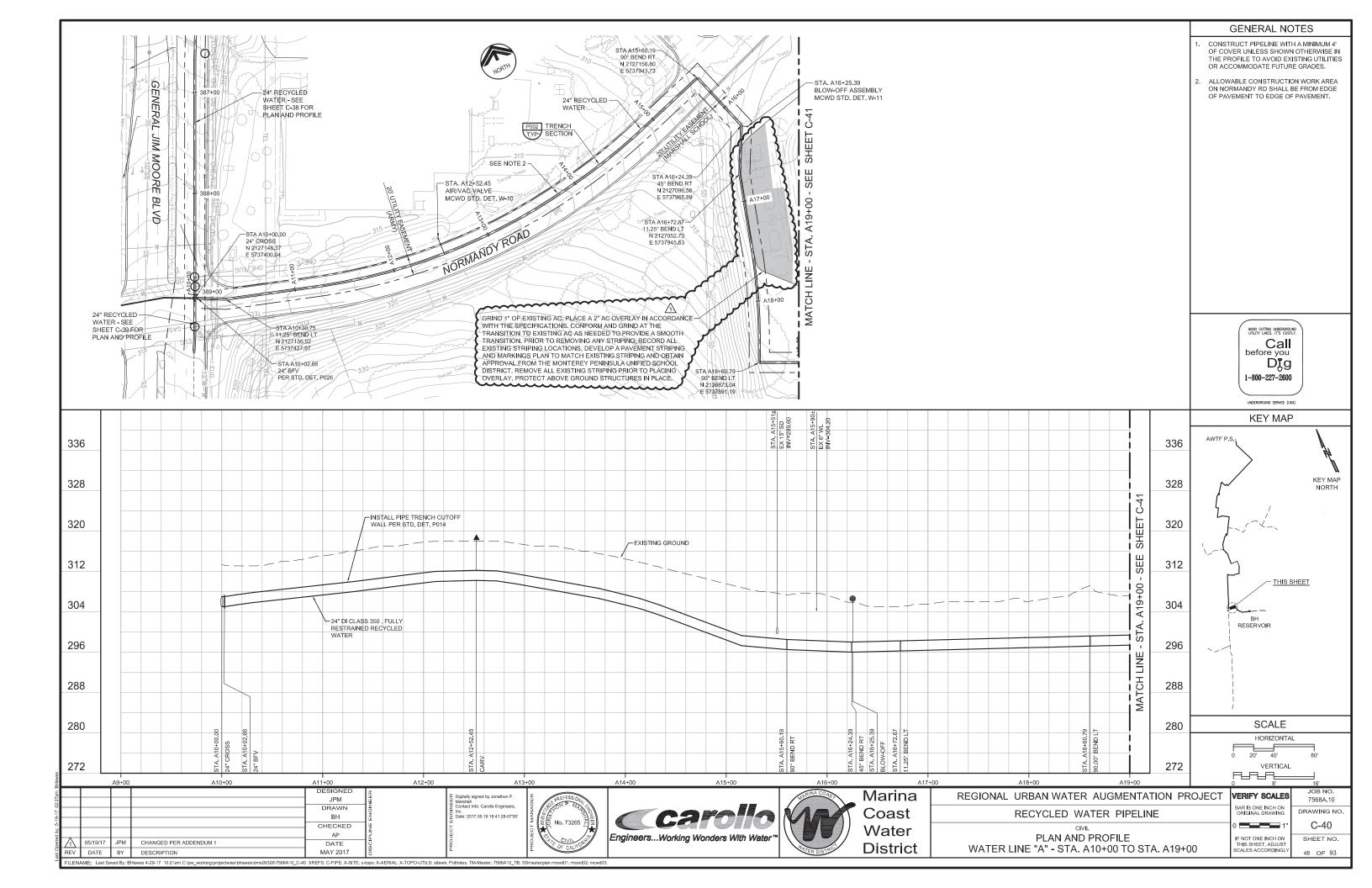


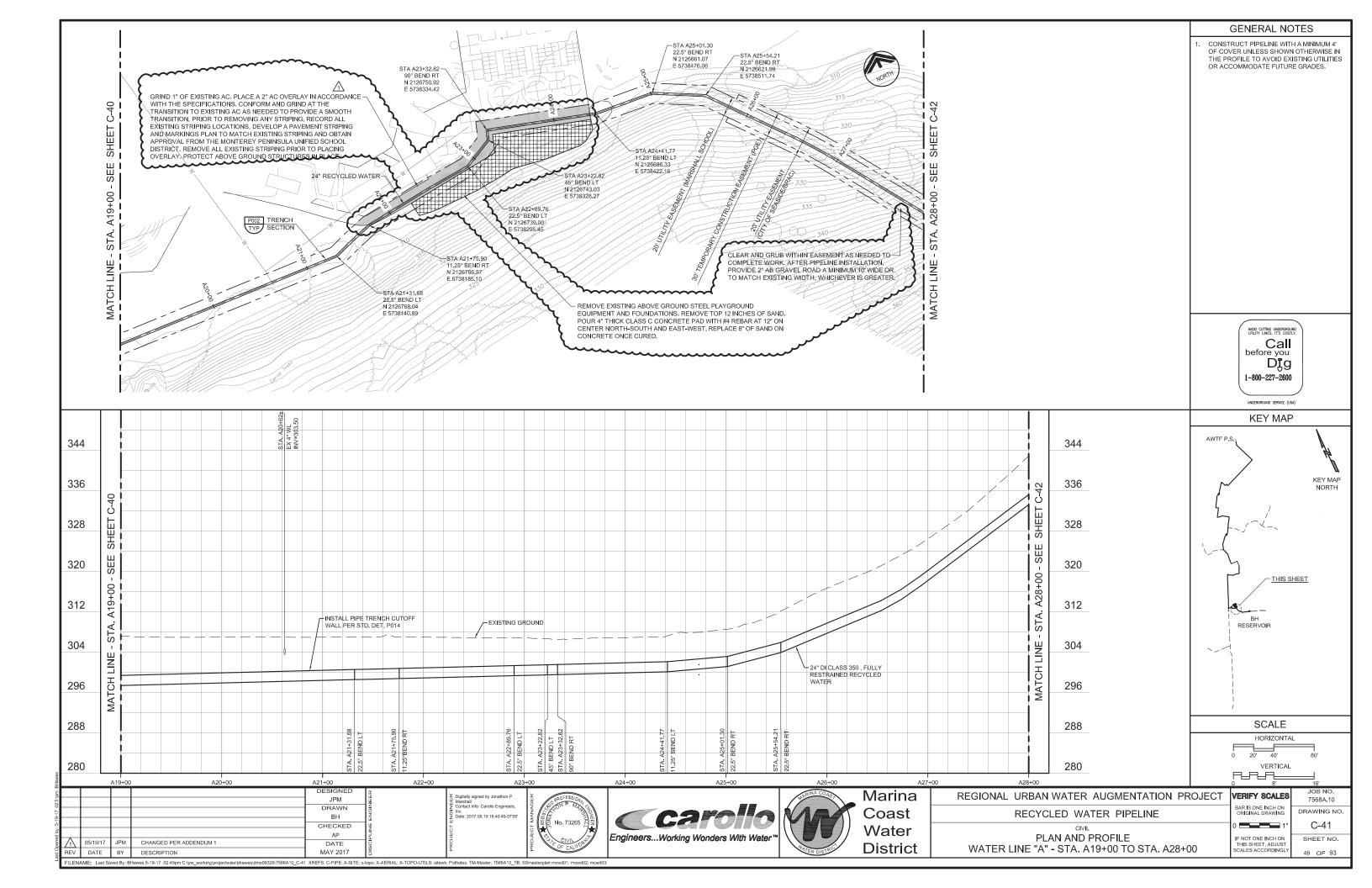


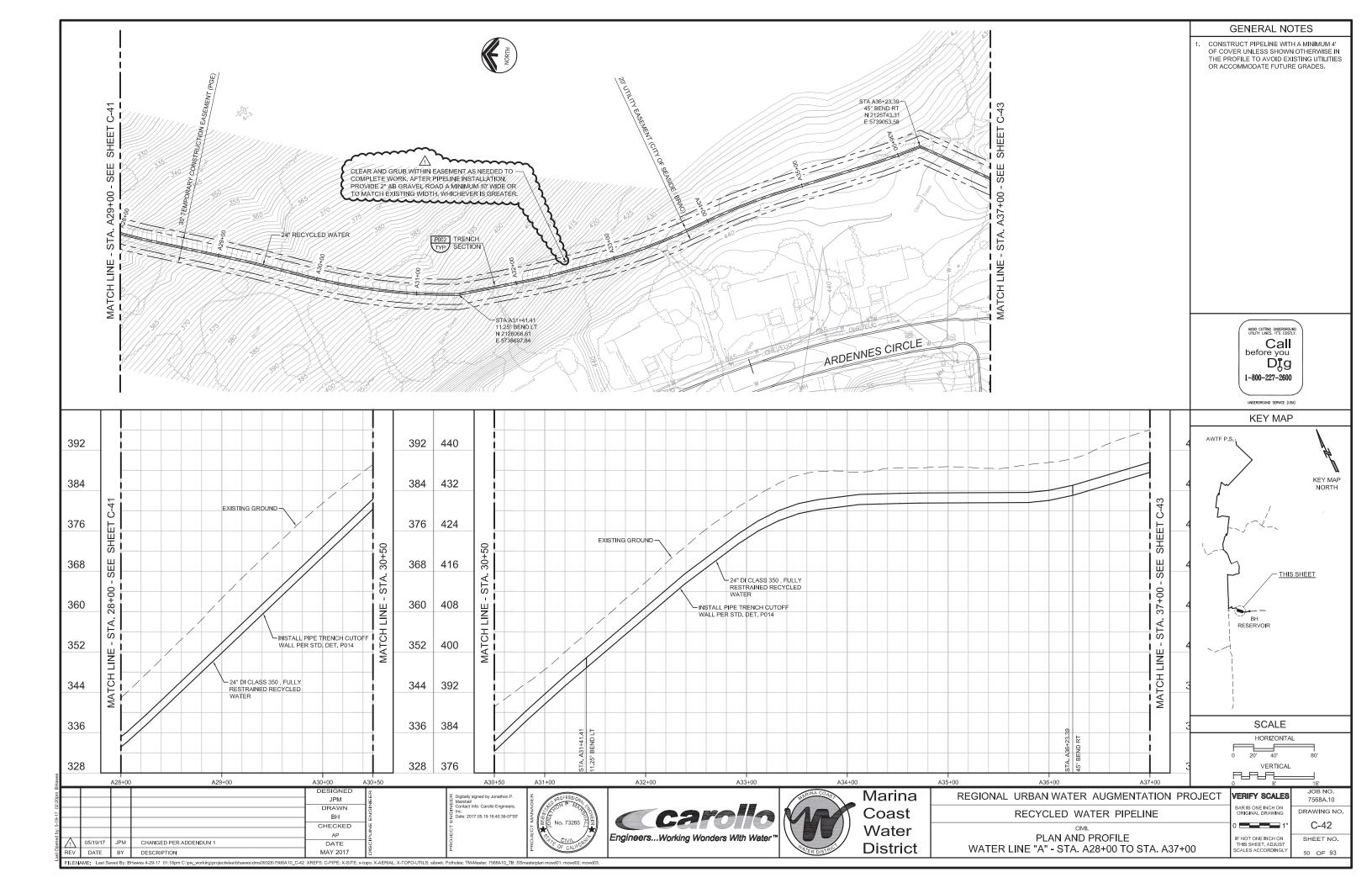


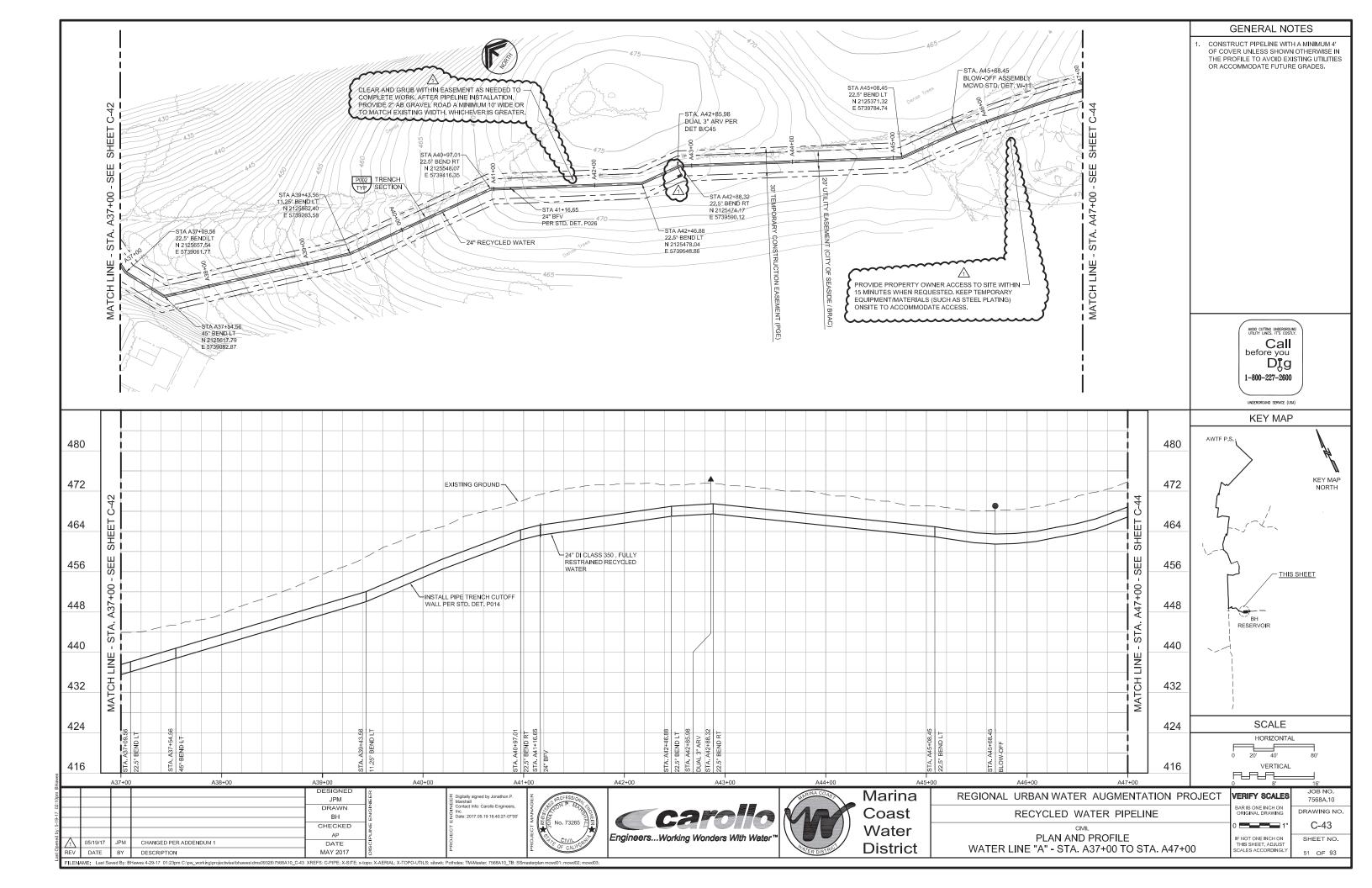


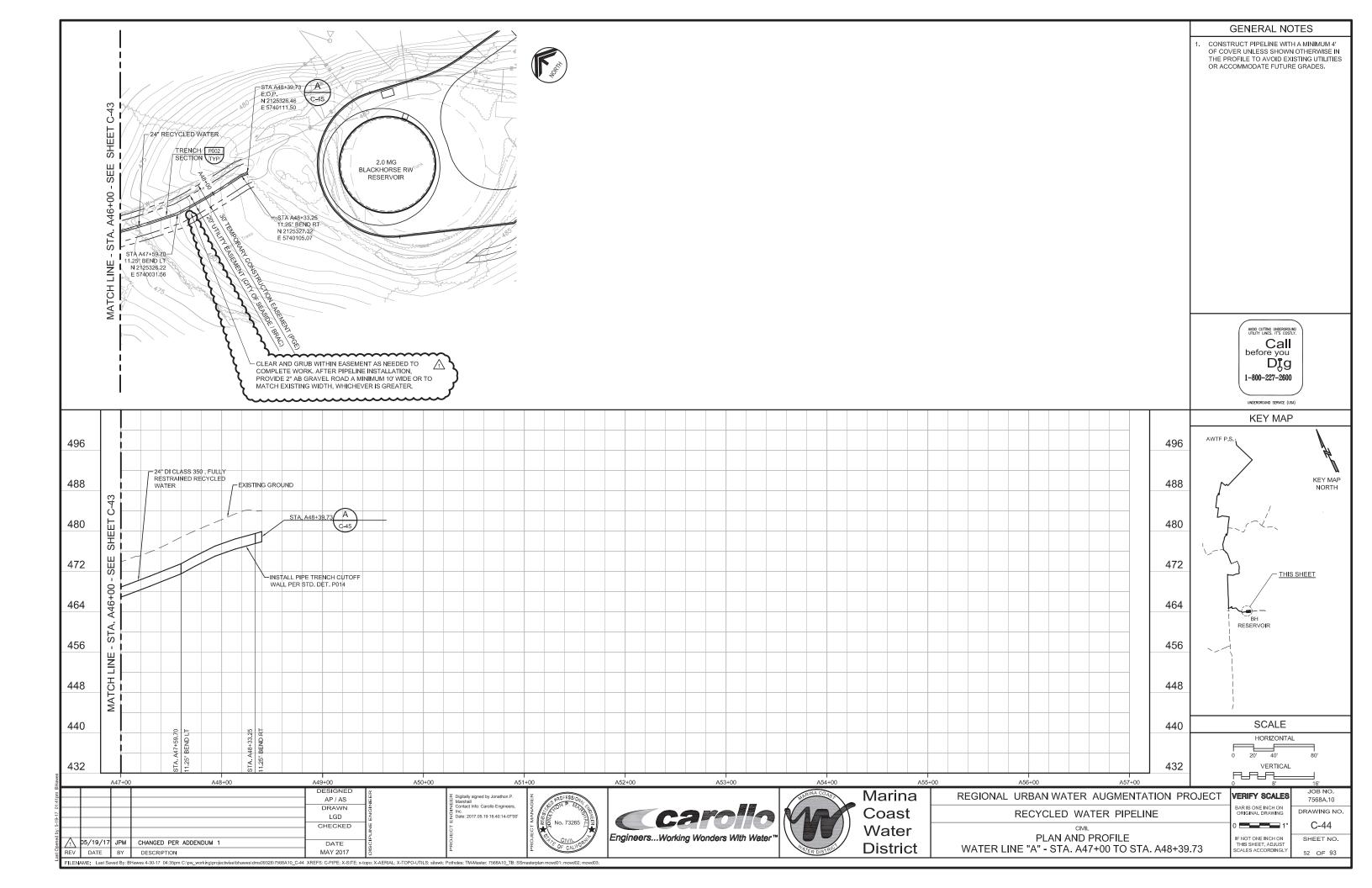


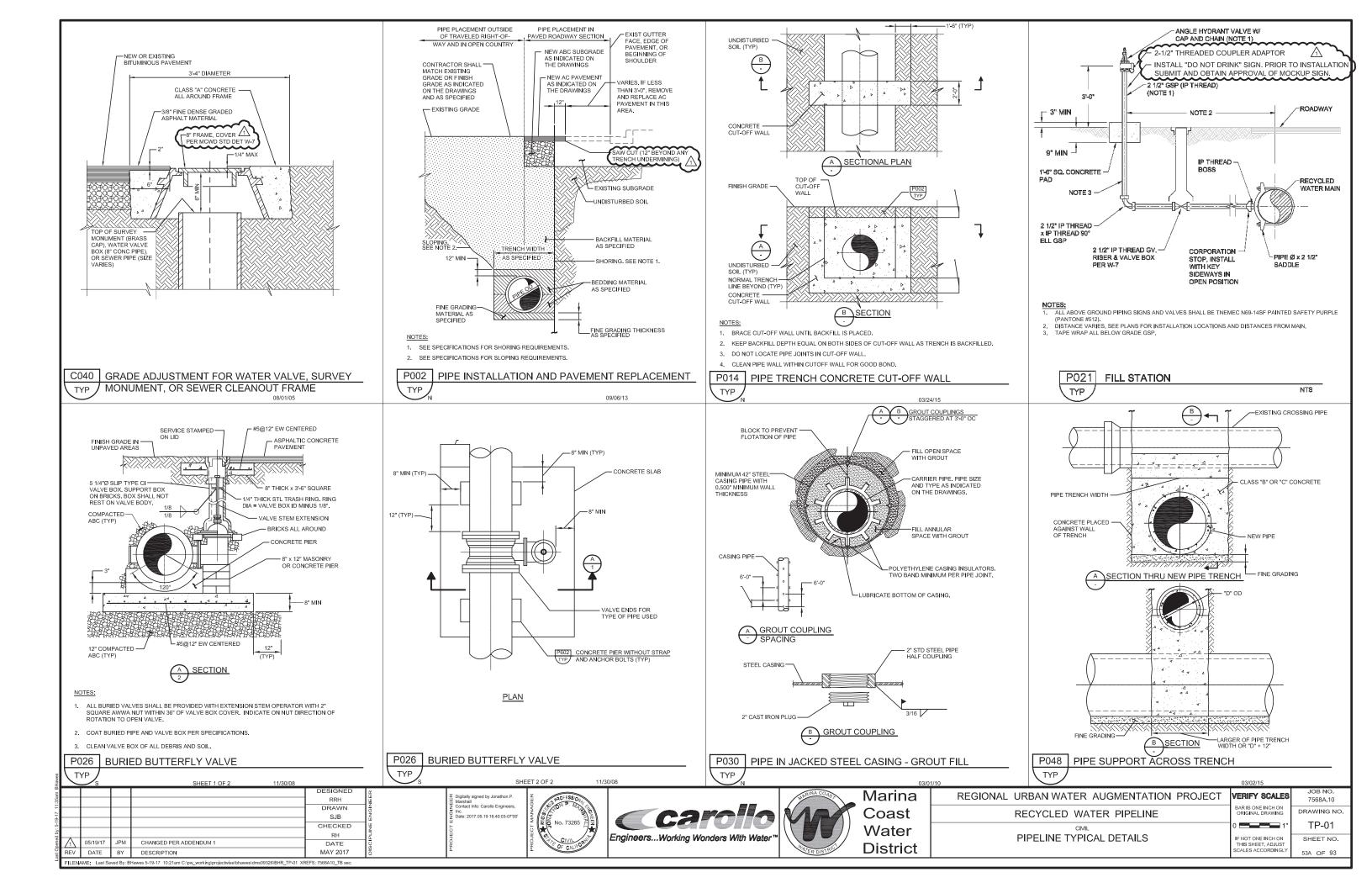


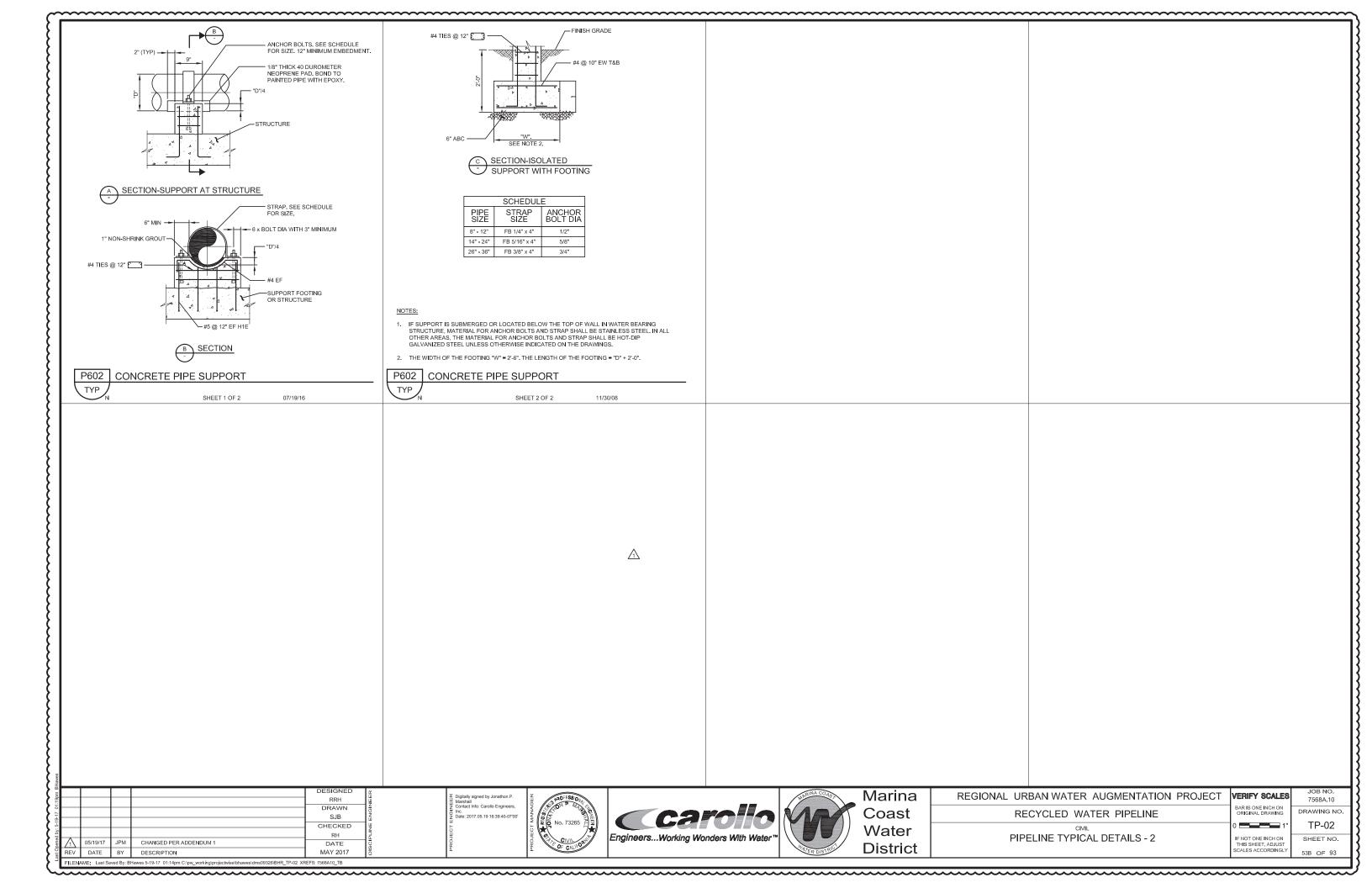


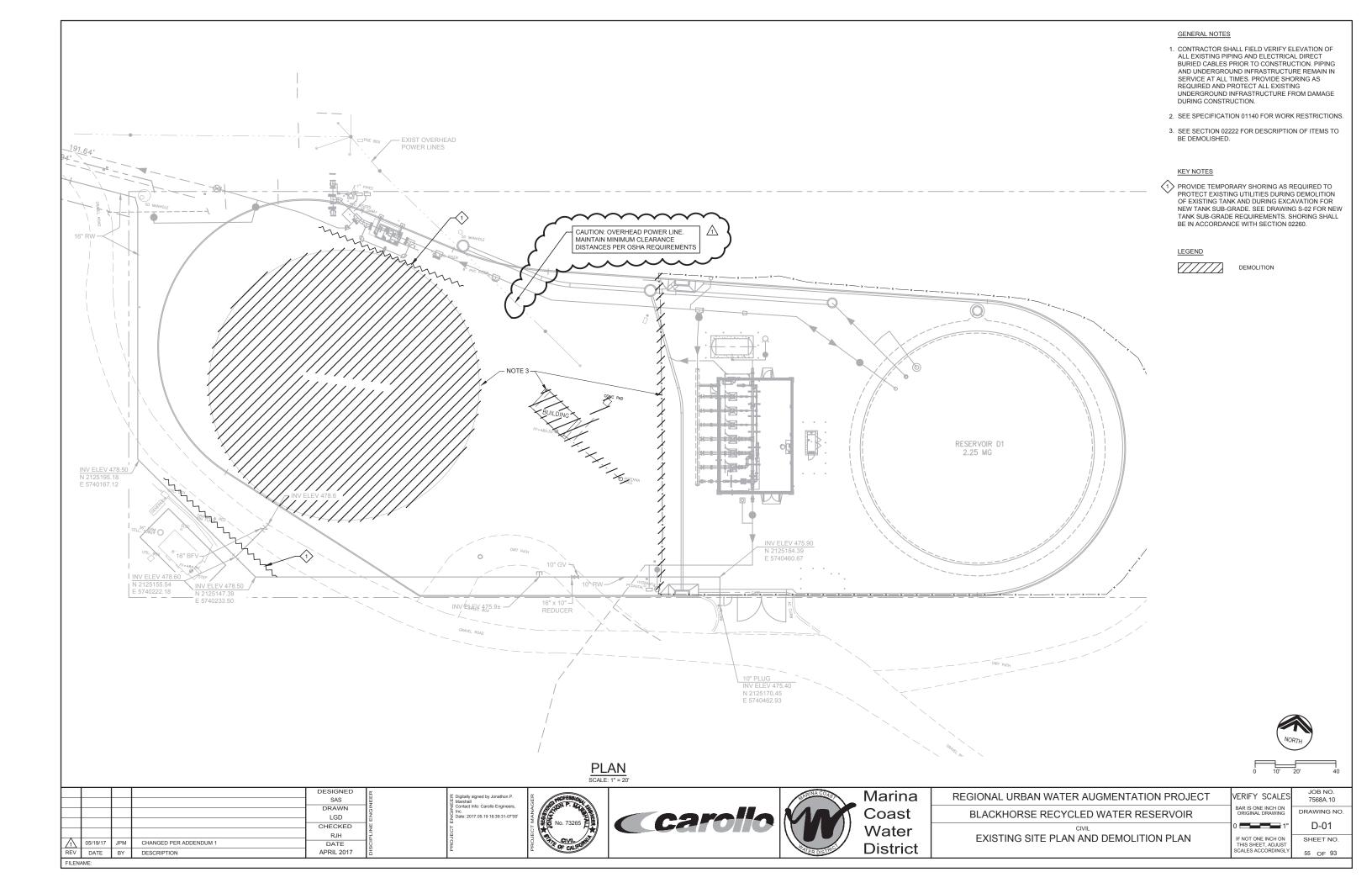












GENERAL NOTES CONTRACTOR SHALL FIELD VERIFY ELEVATION OF ALL EXISTING PIPING AND ELECTRICAL DIRECT BURIED CABLES PRIOR TO CONSTRUCTION. PIPING AND UNDERGROUND INFRASTRUCTURE SHALL REMAIN IN SERVICE AT ALL TIMES. PROVIDE SHORING AS REQUIRED AND PROTECT ALL EXISTING UNDERGROUND INFRASTRUCTURE FROM DAMAGE DURING CONSTRUCTION. SLOPE 16" OVERFLOW/DRAIN PIPE SUCH THAT IT PASSES BELOW THE 24" POTABLE WATER PIPING WITH A MINIMUM OF 12" OF CLEARANCE. SEE C-44 FOR CONTINUATION RESERVOIR 2 INLET/OUTLET M-02 KEY NOTES -16" OVERFLOW DRAIN. RESERVOIR OVERFLOW / DRAIN LINES SEE NOTE 2 PROVIDE TEMPORARY SHORING AS REQUIRED TO PROTECT EXISTING UTILITIES DURING DEMOLITION OF EXISTING TANK AND DURING EXCAVATION FOR NEW TANK SUB-GRADE. SEE DRAWING S-02 FOR NEW TANK SUB-GRADE REQUIREMENTS. SHORING SHALL BE IN -16" OVERFLOW DRAIN. ACCORDANCE WITH SECTION 02266. C-04 POTABLE WATER BACKUP MAGNETIC CAUTION: OVERHEAD POWER LINE. MAINTAIN MINIMUM CLEARANCE DISTANCES PER OSHA REQUIREMENTS FLOW METER POTABLE WATER BACK VERTICAL TURBINE P



PLAN SCALE: 1" = 20' THOPESOIDILE





REGIONAL URBAN WATER AUGMENTATION PROJECT BLACKHORSE RECYCLED WATER RESERVOIR

FINISHED SITE PLAN & YARD PIPING

RESERVOIR D1 2.25 MG

VERIFY SCALES

DRAWING NO. C-01 SHEET NO.

JOB NO. 7568A.10

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

05/19/17 REV DATE

JPM

BY DESCRIPTION

CHANGED PER ADDENDUM 1

INV ELEV 478.60 N 2125315.10 E 5740232.62 90 BEND 2.0 MG BLACKHORSE

RW RESERVOIR

DESIGNED

CHECKED

APRIL 2017

RESERVOIR N 2125259.52

E 5740235.89 FLOOR EL. 484.50

ELBOW

ELBOW

8" POTABLE WATER . 3" - 90°

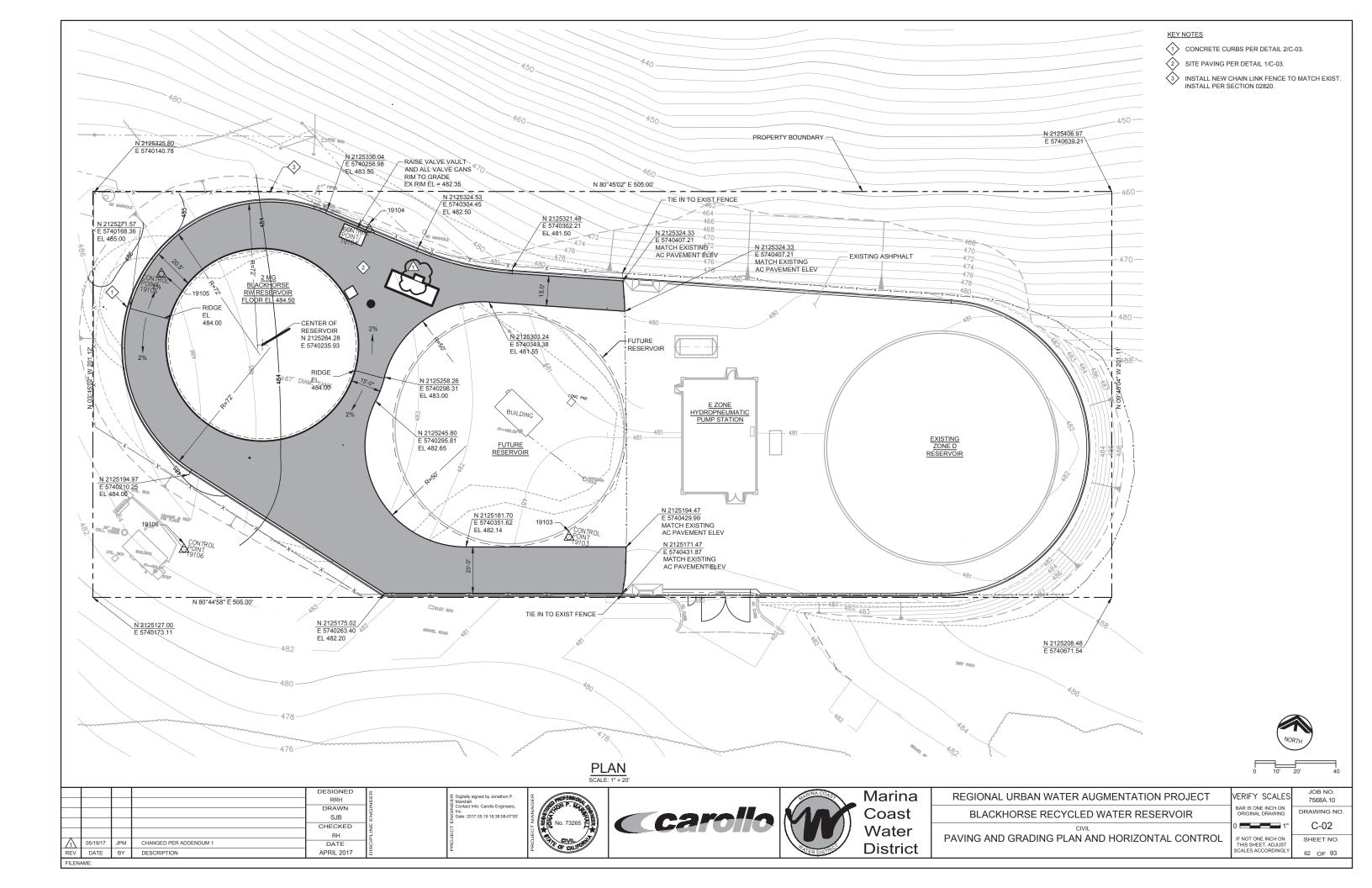
1 POTABLE WATER INLET

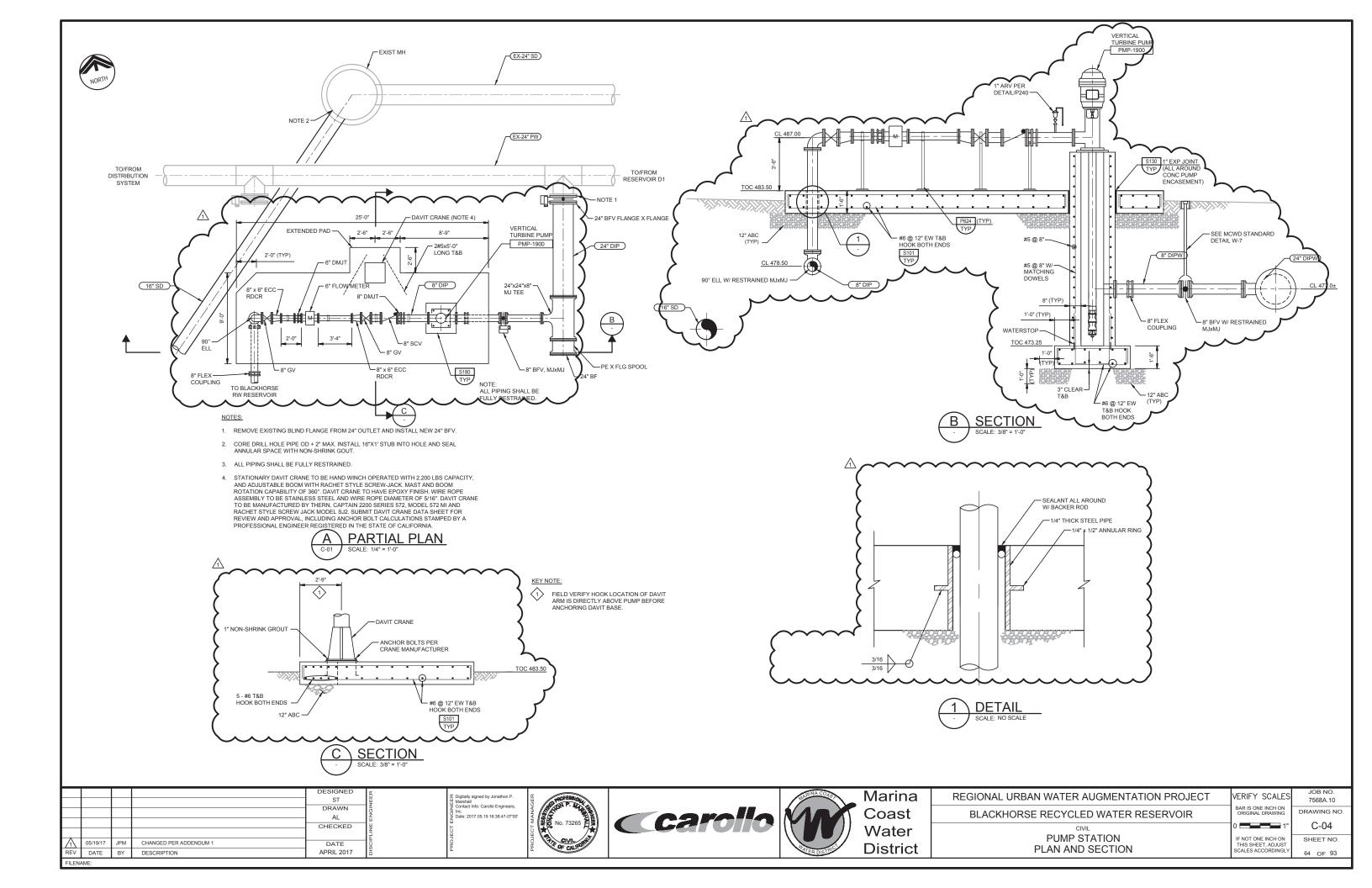
Digitally signed by Jonathon P.
Marshall
Contact Info: Carollo Engineers,

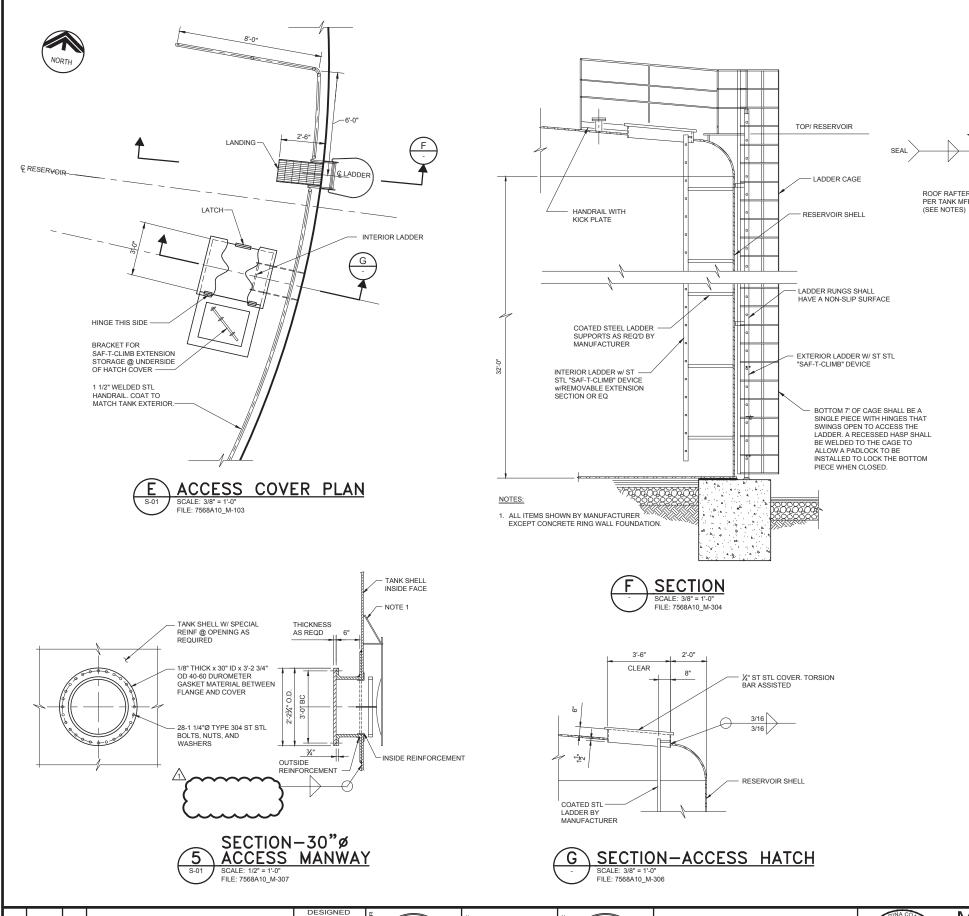
Date: 2017.05.19 16:39:21-07'00'

- 1	ZAG	A CON P. CO. S.	l
	ΜĀ	No. 73265	
	JECT		
- 1	ROZ	CIVIL OF THE PROPERTY.	l

19103 -







	SEAL
	SEAL
ROOF RAFTER — PER TANK MFR (SEE NOTES)	KNUCKLE
RAFTER ENE SUPPORT	
NOTES:	
ALL RAFTER FAYING SURFACES SH	

- ROOF RAFTER LATERAL BRACING SHALL BE STRUCTURAL STEEL CHANNELS OR ANGLES WITH WELDED CONNECTIONS. THREADED CONNECTIONS SHALL NOT BE USED.
- 3. GUARDRAIL NOT SHOWN.



				DESIGNED	Ī
				EQ	ľ
				DRAWN	18
				SJB/AL	li
				CHECKED	1
				TWP	l
Λ	05/19/17	JPM	CHANGED PER ADDENDUM 1	DATE	18
REV	DATE	BY	DESCRIPTION	APRIL 2017	l



Digitally signed by Jonathon P.

Marshall
Contact Info: Carollo Engineers,
Inc.
Date: 2017.05.19 16:37:47-07'00'

O DOZ.





REGIONAL URBAN WATER AUGMENTATION PROJECT
BLACKHORSE RECYCLED WATER RESERVOIR
STRUCTURAL

HORSE RECYCLED WATER RESERVOIR

STRUCTURAL

RESERVOIR

PLAN, SECTIONS AND DETAILS

ORIGINAL DRA

ORI

0 1" S-03
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
69 OF 93

7568A.10

DRAWING NO.

VERIFY SCALES