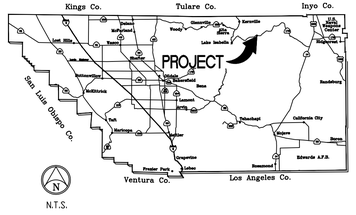
APPENDIX 1b

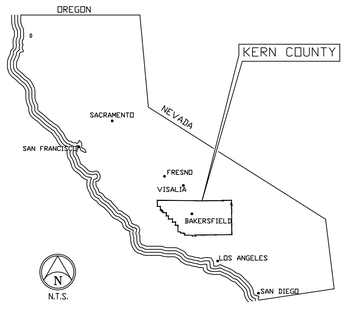
WELDON REGIONAL WATER SYSTEM IMPROVEMENT PROJECT

CAUTION:
CONTRACTOR SHALL CALL U.S.A. FOR LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
CALL 1-800-642-2444 48 HRS.

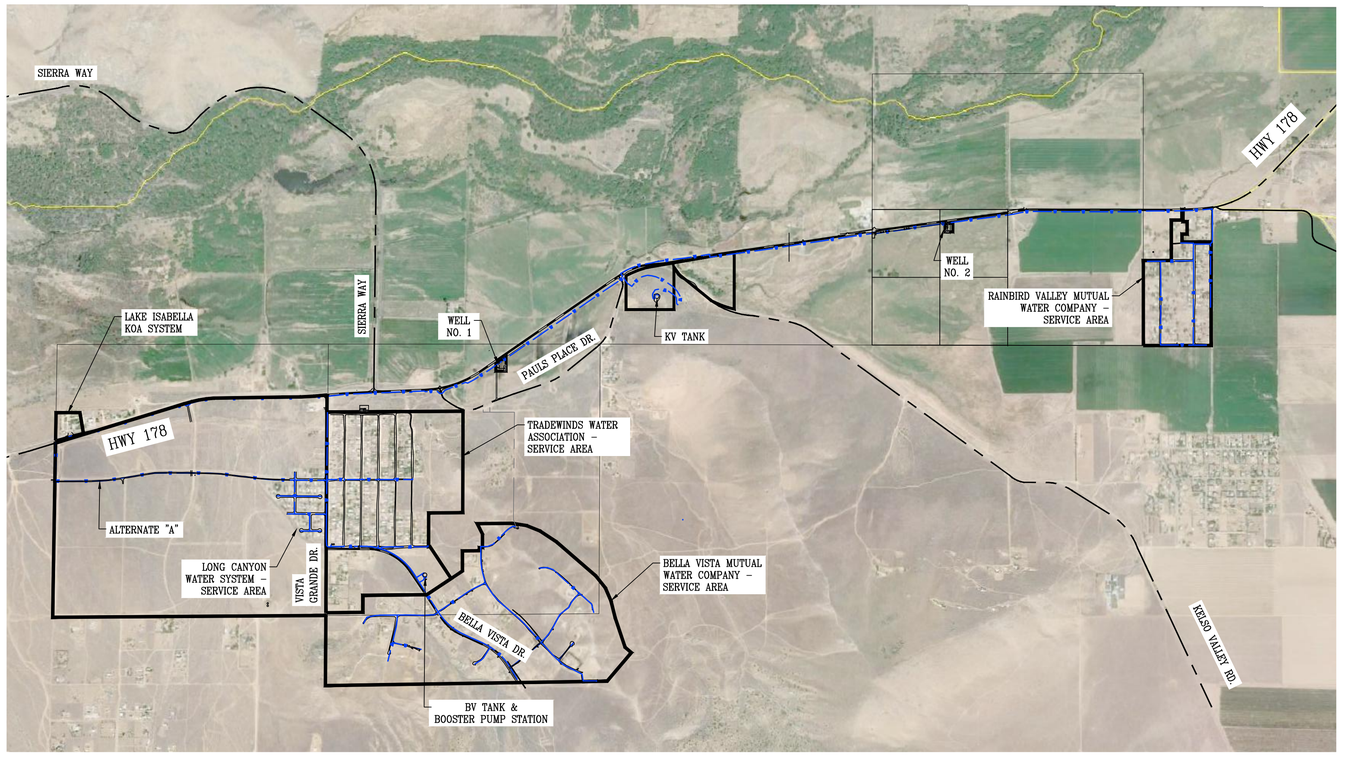
NOTE:
THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS. THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL(S) HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL(S).



COUNTY OF KERN



STATE OF CALIFORNIA



VICINITY MAP
1"=1250'

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85	WELL #2 DISCHARGE PIPING	??	WELL #1 ELECTRICAL SITE PLAN
86	WELL SITE NO. 1 AND NO. 2 SECTIONS	??	WELL #1 SINGLE LINE DIAGRAM
87	HYDROPNEUMATIC TANK	??	WELL #1 ELEC. CONTROL DIAGRAM
88	ELECTRICAL SHADE STRUCTURE	??	WELL #1 ELECTRICAL PLC DIAGRAM
89	MOTOR ENCLOSURE BUILDING	??	WELL #1 ELECTRICAL DETAILS
90	CHLORINE ENCLOSURE BUILDING	??	WELL #2 ELECTRICAL SITE PLAN
91	FENCE DETAIL	??	WELL #2 SINGLE LINE DIAGRAM
92	DETAIL 1	??	WELL #2 ELEC. CONTROL DIAGRAM
93	DETAIL 2	??	WELL #2 ELECTRICAL PLC DIAGRAM
94	DETAIL 3	??	WELL #2 ELECTRICAL DETAILS

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL NECESSARY PERMITS.
2. CONTRACTOR SHALL PROVIDE A U.S.A. LOCATE PRIOR TO COMMENCING ANY CONSTRUCTION.

BASIS OF BEARINGS:
THE BEARING OF S10°02'56"E FOR THE WEST LINE OF PARCEL 2 OF SECTION 23 T25S/R25E M.D.B.&M. PER BOOK 20 PAGE 60 ON FILE IN THE OFFICE OF THE KERN COUNTY SURVEYOR WAS USED FOR THE BASIS OF BEARINGS SHOWN ON THIS MAP.

BENCHMARK: ELEVATION 308.7'
PID FU3522. A TRIANGULATION STATION DISC SET IN TOP OF A CONCRETE MONUMENT, STAMPED DELANO 2 1960, WITH AN ELEVATION OF 308.7 FEET. LOCATED NORTH WEST OF THE INTERSECTION OF 10TH AVE AND FREMONT ST. IN SECTION 23, T25S/R25E M.D.B.&M.

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DESIGNED BY:
JOHNNY THOMASSON

REVIEWED BY: RCE 60960 (12-31-18)
CURTIS M. SKAGGS

APPROVED BY: RCE 23042 (12-31-19)
DEE JASPAR

APPROVED BY: DATE
WELDON REGIONAL WATER DISTRICT

WELDON REGIONAL WATER SYSTEM
KERN COUNTY, CALIFORNIA

JULY 2017

REVISION	BY

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SITE LAYOUT

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

LONG CANYON EXIST. WELL SITE NO. 2 (KEEP FOR DAVE PRINCE AND DISCONNECT FROM LONG CANYON WATER SYSTEM)

SEE SHEETS ??

TRADEWINDS EXIST. WELL SITE NO. 2

SEE SHEET 61

TRADEWINDS EXIST. WELL SITE NO. 3

SEE SHEET 25

NEW WELL NO. 1

SEE SHEETS 14 AND 76-80

PROPOSED SHOP BUILDING SITES

LONG CANYON EXIST. WELL SITE NO. 1 (KEEP FOR DAVE PRINCE AND DISCONNECT FROM LONG CANYON WATER SYSTEM)

SEE SHEETS ??

LONG CANYON EXIST. WELL NO. 3 SITE ?????

SEE SHEETS ??

TRADEWINDS EXIST. WELL NO. 3 TO BE ABANDONED IN ACCORDANCE WITH COUNTY OF KERN STANDARDS.

2 POTENTIAL TANK SITE LOCATIONS

NO WATER SERVICES

BV EXIST. WELL NO. 1 SITE WELLS TO TIE INTO NEW DISTRIBUTION SYSTEM, RE-EQUIP BOWLS AND MOTOR

SEE SHEETS ??

BV NEW TANK & BOOSTER PUMP STATION

SEE SHEETS 28 AND 108-116

EXISTING TANK SITE NO. 1 & BOOSTER PUMP STATION.

SEE SHEET 37

BV EXIST. TANK NO. 2 SITE (2) 15,000 GAL TANKS

SEE SHEET 41

KV NEW TANK

SEE SHEETS 16 AND 95-107

RAINBIRD EXIST. WELL NO. 2 SITE TO BE ABANDONED IN ACCORDANCE WITH COUNTY OF KERN STANDARDS. CONTRACTOR TO REMOVE AND DISPOSE OF ALL EQUIPMENT, LEVEL, AND CLEAN SITE

RAINBIRD FUTURE WELL SITE

NEW WELL NO. 2

SEE SHEETS 21 AND 81-85

RAINBIRD EXIST. WELL NO. 1 SITE TO BE ABANDONED IN ACCORDANCE WITH COUNTY OF KERN STANDARDS. CONTRACTOR TO REMOVE AND DISPOSE OF ALL EQUIPMENT, LEVEL, AND CLEAN SITE

HWY 178

SIERRA WAY

KELSO VALLEY RD.

FAY RANCH RD.

POWERS LN.

PAULS PLACE DR.

VISTA GRANDE DR.

BELLA VISTA DR.

16 15 14 13 18 21 22 23 24 26S 34E 26S 35E 19 28 27 26 25 30

VICINITY MAP
1"=800'

LEGEND:

NEW PVC WATER MAIN

SECTION LINE

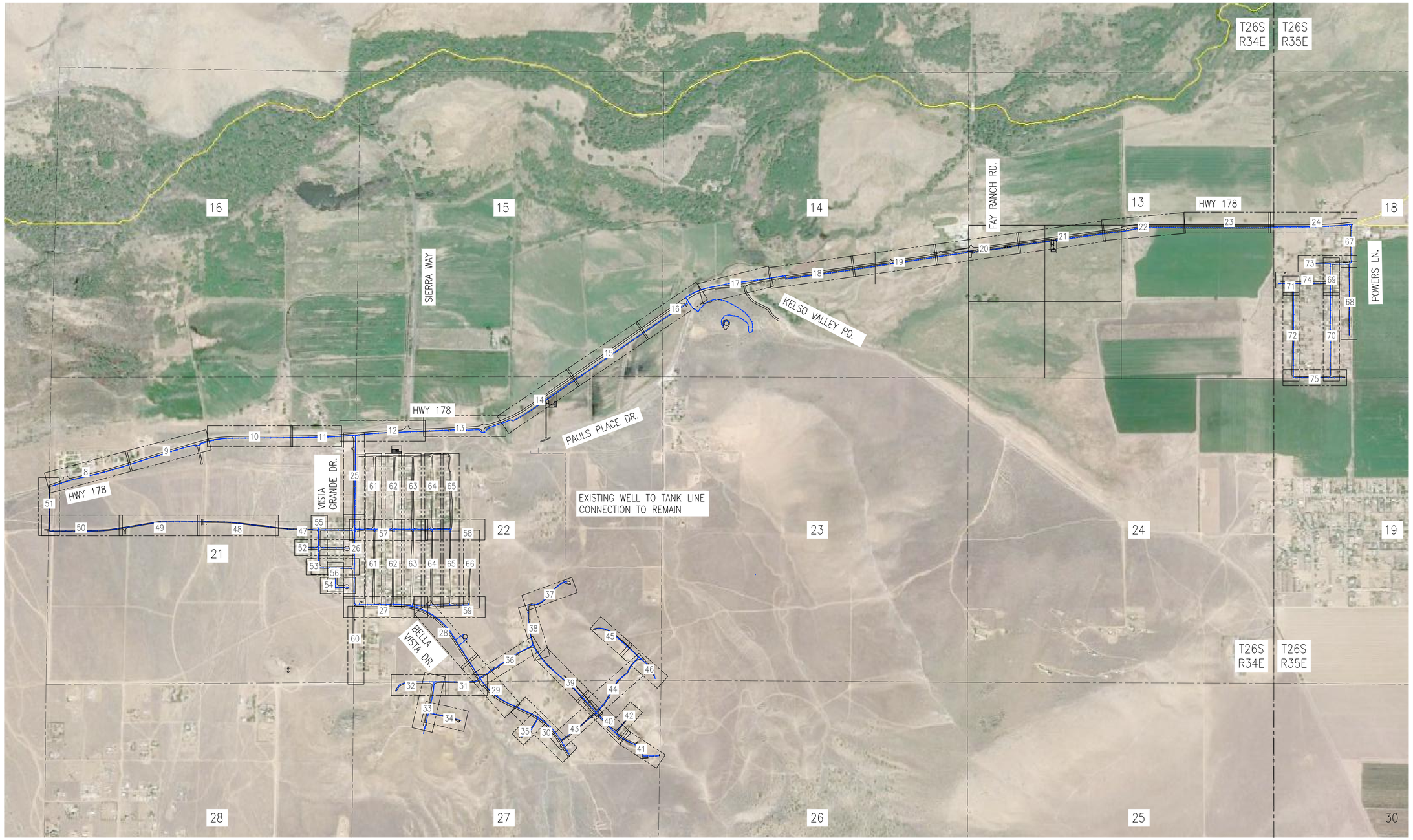
26 SECTION NUMBER

SCALE 1"=800'

0 800' 1600' 3200'

DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	2
OF	86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\02.SITE LAYOUT - OVERALL.DWG 8/24/2017 5:42 PM



VICINITY MAP
1"=800'

LEGEND:

NEW PVC WATER MAIN

SECTION LINE

16 SHEET REFERENCE

26 SECTION NUMBER

SCALE 1"=800'

0 800' 1600' 3200'

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PLAN AND PROFILE INDEX

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	3
OF	86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\03.PLAN AND PROFILE INDEX.DWG 8/24/2017 5:42 PM

VISTA GRANDE DR.

22 21

8" HIGH PRESSURE SYSTEM TIE-INTO EXISTING TRADEWINDS TANK SITE

TRADEWINDS EXIST. WELL NO. 3 TO BE ABANDONED IN ACCORDANCE WITH COUNTY OF KERN STANDARDS.

SHOFFSTALL LN

HOOPER RD

ISABEL DR

BELLA VISTA DR

8" PVC

PIUTE MOUNTAIN RD

12" BELLA VISTA TANK FILL LINE

8" BOOSTER PUMP STATION DISTRIBUTION MAIN

LONG HORN RD

QUAIL RD

PERRY AVE

PROPOSED PRESSURE REDUCING VAULT

EXISTING TRADEWINDS OFFICE

MARCIA ST.

EXISTING TRADEWINDS WELL SITE NO. 2

EXISTING TRADEWINDS WELL SITE NO. 3

TIDWELL DR

PROPOSED SHOP BUILDING SITE

VICINITY MAP

1"=100'

Number	Item Description	Unit	Quantity
1	Pressure Reducing Vault	ea	7
2	8" DR18 C900 PVC Pipe	ft	2780
3	6" Gate Valve	ea	11
4	Fire Hydrant	ea	11
5	Water Services	ea	222

12" BELLA VISTA TANK FILL LINE AND 8" BOOSTER PUMP STATION DISTRIBUTION MAIN ARE NOT INCLUDED IN TOTAL

LEGEND:

- NEW PVC WATER MAIN
- SECTION LINE
- PROPERTY LINE
- EXISTING WATER LINE
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY
- THRUST BLOCK

SCALE 1"=100'

0 100' 200' 400'

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SITE LAYOUT - TRADEWINDS

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JAN2017
SCALE AS SHOWN
FILE
JOB NO.
SHEET 5
OF 86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\04-07.SITE LAYOUT - COMMUNITIES.DWG 8/28/2017 5:35 PM

VICINITY MAP
1"=100'

Number	Item Description	Unit	Quantity
1	8" DR18 C900 PVC Pipe	ft (linear)	5890
2	8" Gate Valve	ea	18
3	Fire Hydrant	ea	7
4	PRESSURE REDUCING VAULT	ea	2
5	Blow-Off Valve	ea	7
6	Water Services	ea	73
7	Air Release Valve	ea	1

LEGEND:
- NEW PVC WATER MAIN
- SECTION LINE
- PROPERTY LINE
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY
- THRUST BLOCK

SCALE 1"=100'
0 100' 200' 400'

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SITE LAYOUT - LONG CANYON

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JAN2017
SCALE AS SHOWN
FILE
JOB NO.
SHEET 4
OF 86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\04-07.SITE LAYOUT - COMMUNITIES.DWG 8/28/2017 5:35 PM

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SITE LAYOUT - BELLA VISTA

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

5 WATER SERVICES NOT SURVEYED

BV EXIST. TANK NO. 1 & BOOSTER PUMP STATION. CONTRACTOR TO REMOVE AND DISPOSE OF TANKS AND EQUIPMENT, LEVEL, AND CLEAN SITE. PUMPS ARE TO REMAIN IN SERVICE.

8" BOOSTER PUMP STATION DISTRIBUTION MAIN

BV NEW TANK & BOOSTER PUMP STATION SEE SHEETS 108-116

12" BELLA VISTA TANK FILL LINE

NOT INCLUDED IN TOTAL

INCLUDED IN TOTAL

Number	Item Description	Unit	Quantity
1	8" DR18 C900 PVC Pipe	ft (linear)	15680
2	8" Gate Valve	ea	25
3	Fire Hydrant	ea	20
4	Blow-Off Valve	ea	8
5	Air Release Valve	ea	9
6	Water Services	ea	105

VICINITY MAP
1"=150'

LEGEND:

- NEW PVC WATER MAIN
- SECTION LINE
- PROPERTY LINE
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY
- THRUST BLOCK

SCALE 1"=150'

0 150' 300' 600'

DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	6
OF	86 SHEETS

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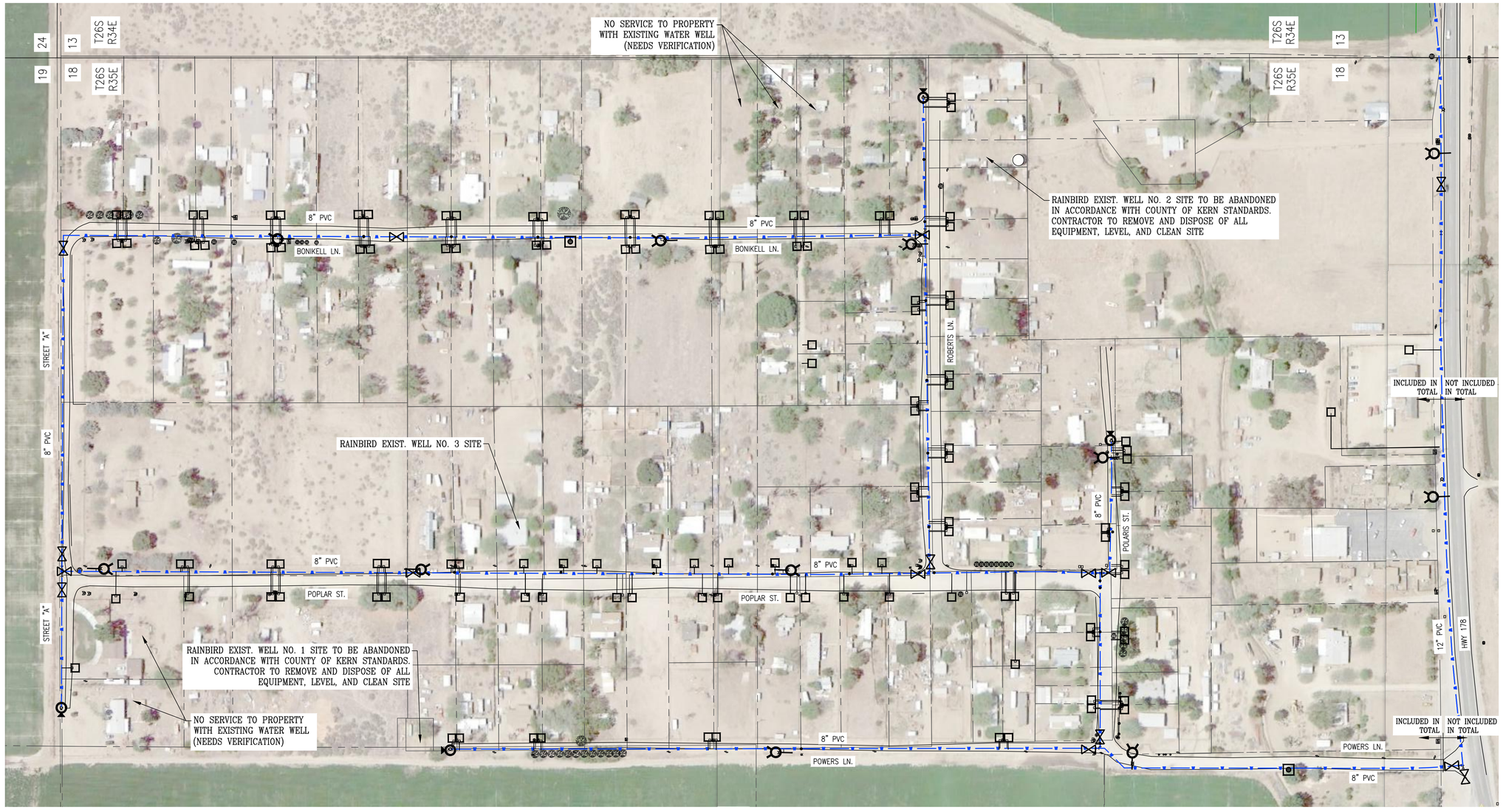
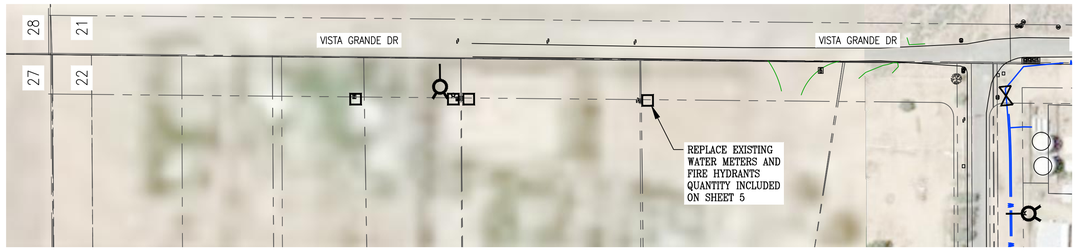


VICINITY MAP
1"=100'



VICINITY MAP – TRADEWINDS
1"=100'

Number	Item Description	Unit	Quantity
1	8" DR18 C900 PVC Pipe	ft (linear)	7960
2	8" Gate Valve	ea	10
3	Fire Hydrant	ea	9
4	Blow-Off Valve	ea	4
5	Air Release Valve	ea	2
6	Water Services	ea	126

LEGEND:
- NEW PVC WATER MAIN
- SECTION LINE
- PROPERTY LINE
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY
- THRUST BLOCK

SCALE 1"=100'
0 100' 200' 400'

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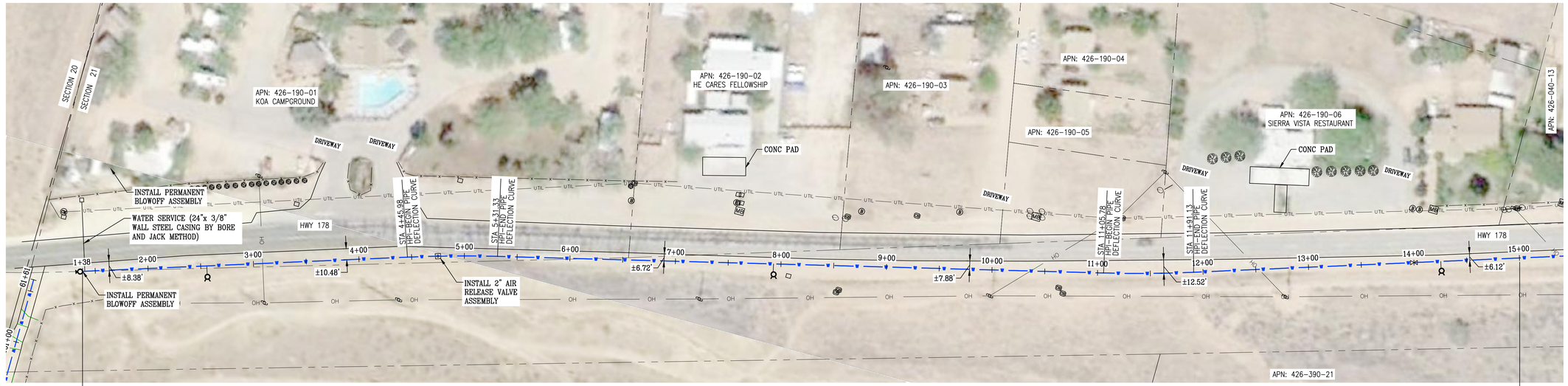
SITE LAYOUT – RAINBIRD

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

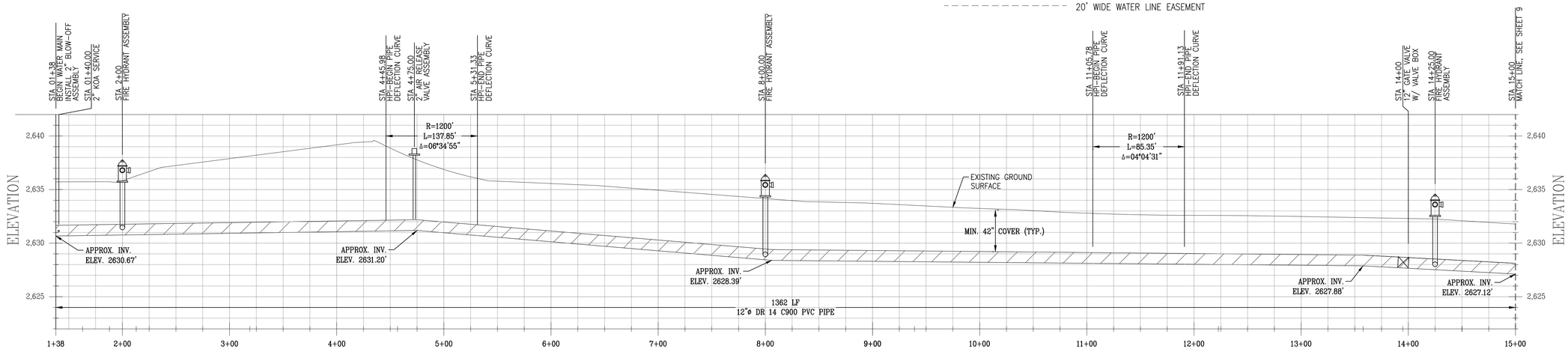
DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	7
OF	86 SHEETS



HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE LINE
- 20' WIDE WATER LINE EASEMENT
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

NOTES:
THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS.

THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES.

NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS.

CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL(S) HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL(S).

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL POTHOLE AND LOCATE ALL SEWER LATERALS, WATER, GAS SERVICES, AND UTILITIES ALONG PIPELINE ALIGNMENT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL USE CONTROLLED LONGITUDINAL BENDING WHEN POSSIBLE TO ACCOMPLISH SMALL CHANGES IN DIRECTION OF THE MAIN LINE ALIGNMENT. THE MAXIMUM ALLOWABLE BENDING FOR THE PVC PIPE SHALL BE IN ACCORDANCE WITH TABLE 8.2 OF THE UNI-BELL HANDBOOK OF PVC PIPE.
3. LINEAR LOW DENSITY POLYETHYLENE ENCASEMENT TO BE INSTALLED AROUND ALL BURIED METAL FITTINGS AND PIPE, INCLUDING: VALVES, STEEL FLANGES, FITTINGS, JOINT RESTRAINTS, BOLTS, ETC., IN ACCORDANCE WITH AWWA C105 STANDARDS. POLYETHYLENE ENCASEMENT SHALL BE COLORED.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIGNS, POSTS, AND BOLLARDS ALONG THE PIPELINE ALIGNMENT AND SHALL BE RESPONSIBLE FOR THEIR REPAIR OR REPLACEMENT WHERE IMPACTED. ALL IMPACTED FACILITIES SHALL BE RESTORED BY THE CONTRACTOR TO MATCH EXISTING AND BE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.
5. CONTRACTOR SHALL PERFORM ALL WORK IN STATE AND COUNTY RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF THE ENCROACHMENT PERMIT AND THE REQUIREMENTS OF THE STATE AND COUNTY INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY PAVEMENT DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE STATE AND COUNTY AND THE ENGINEER.
6. ALL PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C900 DR 18 PRESSURE CLASS 235, EXCEPT WHERE NOTED OTHERWISE. ALL FITTINGS FOR PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C110 OR C153.
7. EACH JOINT IN AND OUT OF ALL FITTINGS SHALL BE RESTRAINED AND A CONCRETE THRUST BLOCK INSTALLED IN ACCORDANCE WITH THRUST BLOCK DETAILS HEREIN.
8. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES SET FORTH BY THE COUNTY ENCROACHMENT PERMIT.
9. TRENCH DEPTH AND SHORING APPLICATIONS SHALL COMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION IN STANDARDS – 29 CFR, PART 1926, SUBPART P.
10. SAWCUT AND REPAIR AC DRIVE APPROACHES TO MATCH EXISTING. CONTRACTOR TO MAINTAIN FACILITY INGRESS AND EGRESS DURING CONSTRUCTION.
11. SERVICES NOT SHOWN ON PROFILE VIEW FOR CLARITY. ONE-INCH DIAMETER SERVICES SHALL BE INSTALLED WITH ⅜" X ¾" METERS WITH REMOTE READ TRANSMITTER AND METER BOX. METERED SERVICE LOCATION SHALL BE COORDINATED IN FIELD WITH THE ENGINEER AND OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EACH METERED SERVICE UP TO THE FLOW METER AT THE PROPERTY LINE.

SCALE 1"=50'
0 50' 100' 200'

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2720 UNICORN ROAD, BLDG A
LAND DEVELOPMENT
SACRAMENTO, CA 95826
PHONE 661 393-4796
FAX 661 393-4798
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 781-1975

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	8
OF	86 SHEETS

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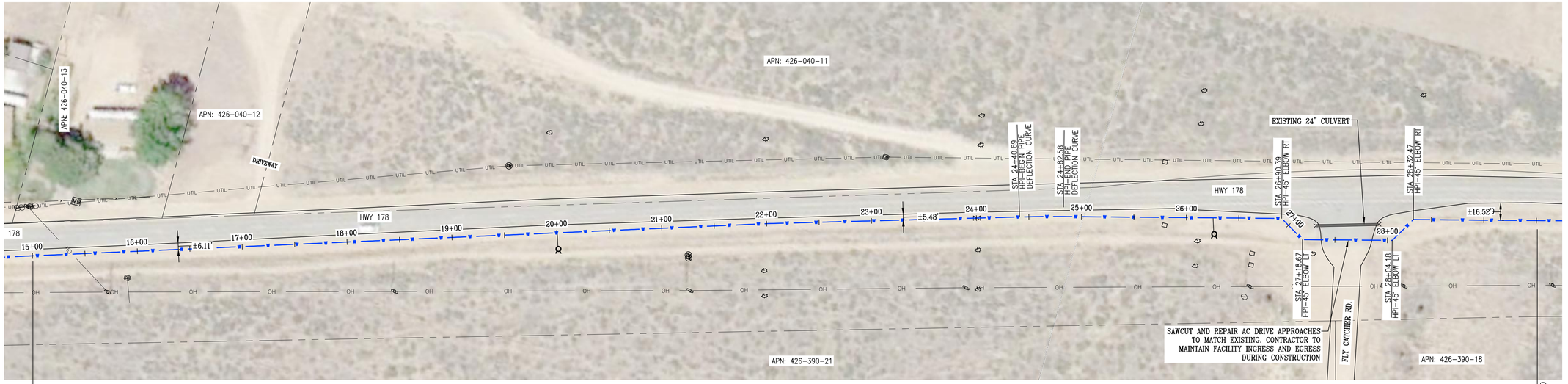
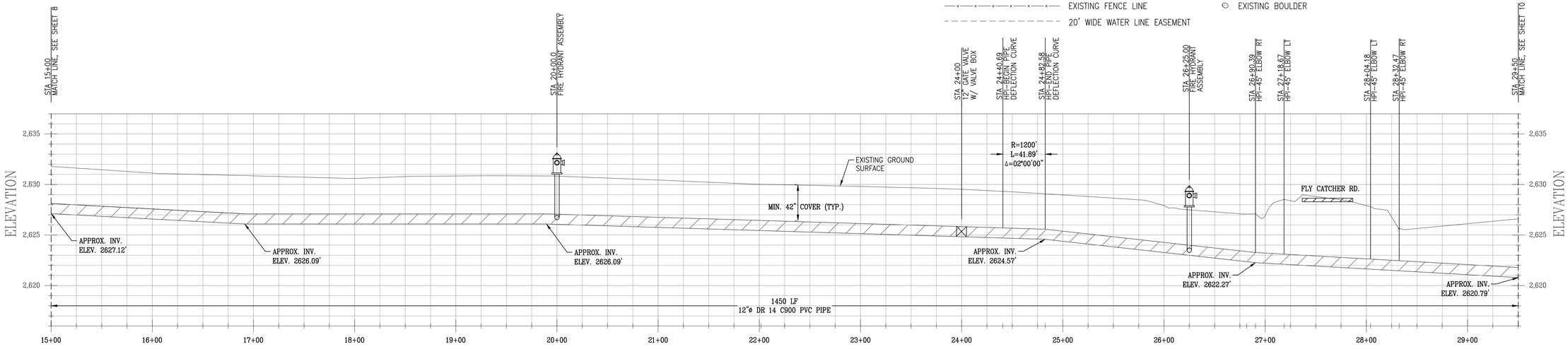


HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE LINE
- 20' WIDE WATER LINE EASEMENT
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

NOTES:
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THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES.

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CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL(S) HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL(S).

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL POTHOLE AND LOCATE ALL SEWER LATERALS, WATER, GAS SERVICES, AND UTILITIES ALONG PIPELINE ALIGNMENT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL USE CONTROLLED LONGITUDINAL BENDING WHEN POSSIBLE TO ACCOMPLISH SMALL CHANGES IN DIRECTION OF THE MAIN LINE ALIGNMENT. THE MAXIMUM ALLOWABLE BENDING FOR THE PVC PIPE SHALL BE IN ACCORDANCE WITH TABLE 8.2 OF THE UNI-BELL HANDBOOK OF PVC PIPE.
3. LINEAR LOW DENSITY POLYETHYLENE ENCASEMENT TO BE INSTALLED AROUND ALL BURIED METAL FITTINGS AND PIPE, INCLUDING: VALVES, STEEL FLANGES, FITTINGS, JOINT RESTRAINTS, BOLTS, ETC., IN ACCORDANCE WITH AWWA C105 STANDARDS. POLYETHYLENE ENCASEMENT SHALL BE COLORED.
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5. CONTRACTOR SHALL PERFORM ALL WORK IN STATE AND COUNTY RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF THE ENCROACHMENT PERMIT AND THE REQUIREMENTS OF THE STATE AND COUNTY INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY PAVEMENT DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE STATE AND COUNTY AND THE ENGINEER.
6. ALL PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C900 DR 18 PRESSURE CLASS 235, EXCEPT WHERE NOTED OTHERWISE. ALL FITTINGS FOR PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C110 OR C153.
7. EACH JOINT IN AND OUT OF ALL FITTINGS SHALL BE RESTRAINED AND A CONCRETE THRUST BLOCK INSTALLED IN ACCORDANCE WITH THRUST BLOCK DETAILS HEREIN.
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15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1975

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	9
OF	86 SHEETS

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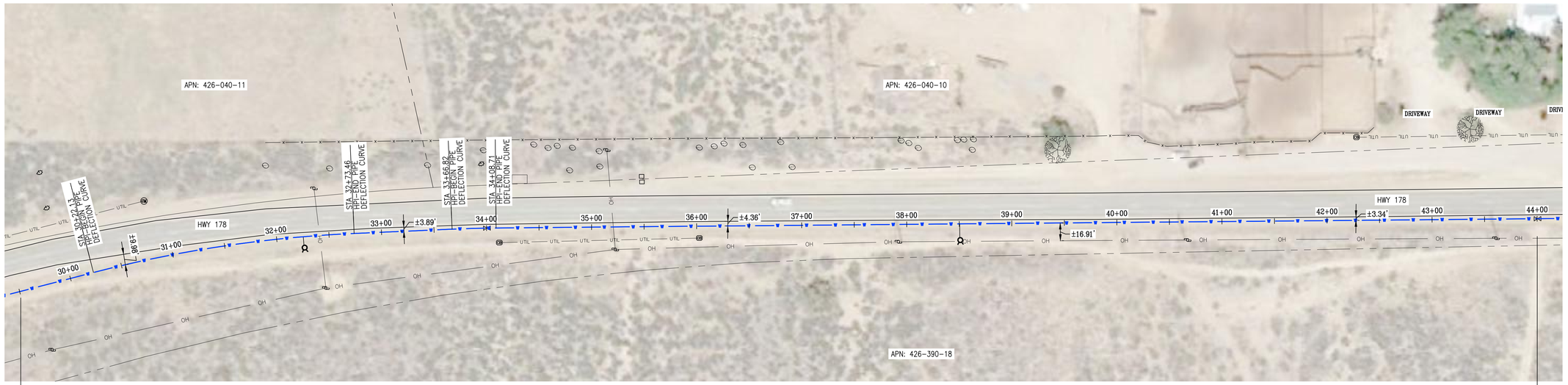

HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
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- SECTION LINE
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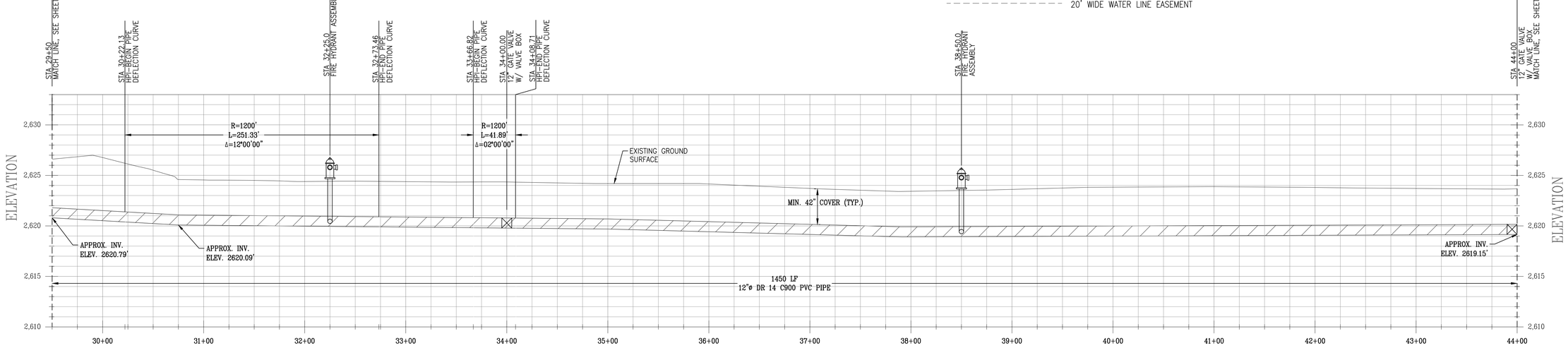

HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

SCALE 1"=50'
0 50' 100' 200'

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SACRAMENTO, CA 95825
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FAX 661 393-4798
15 W PUTNAM AVENUE, 2ND FLOOR
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HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	10
OF	86 SHEETS

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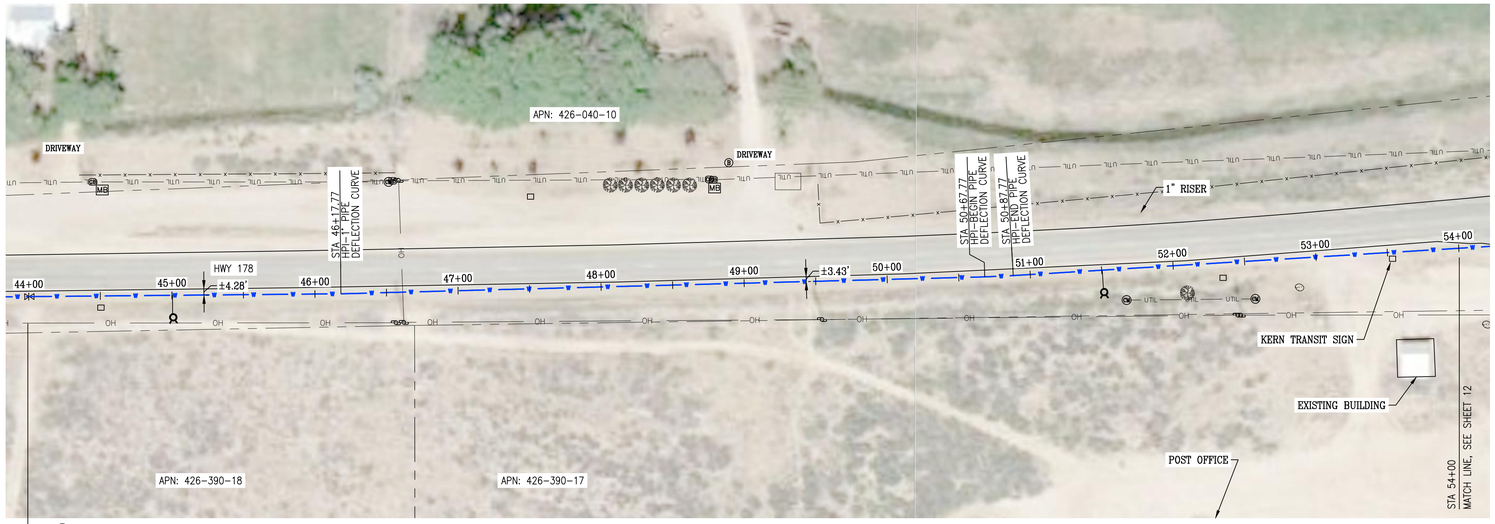

HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
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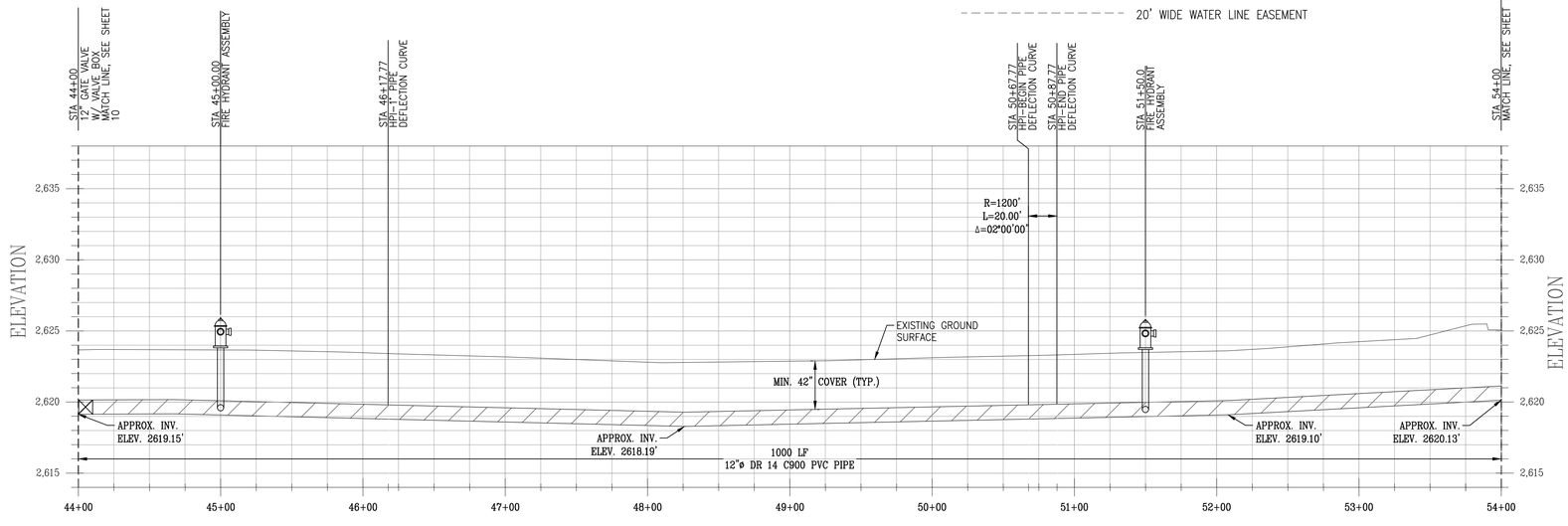

HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
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FAX 559 781-9275

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
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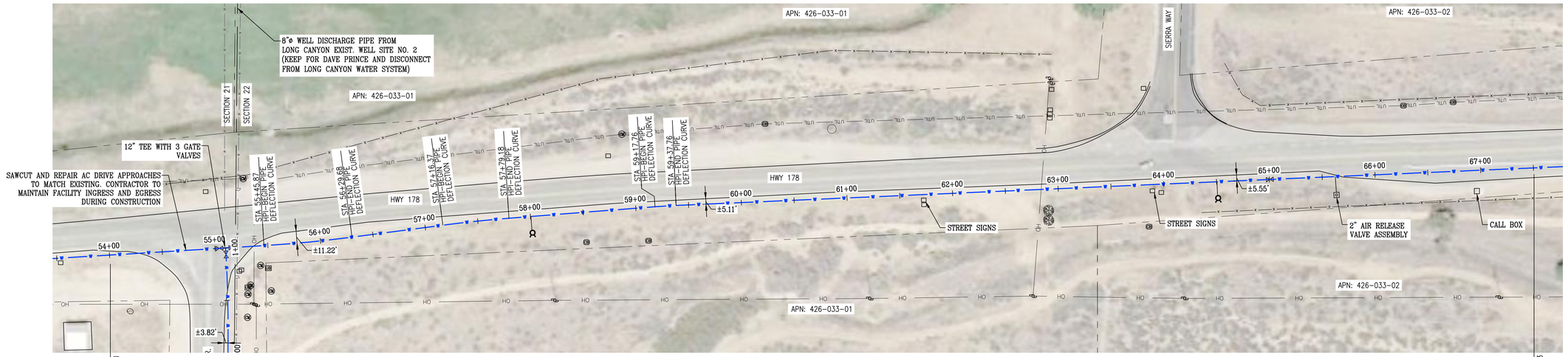

HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
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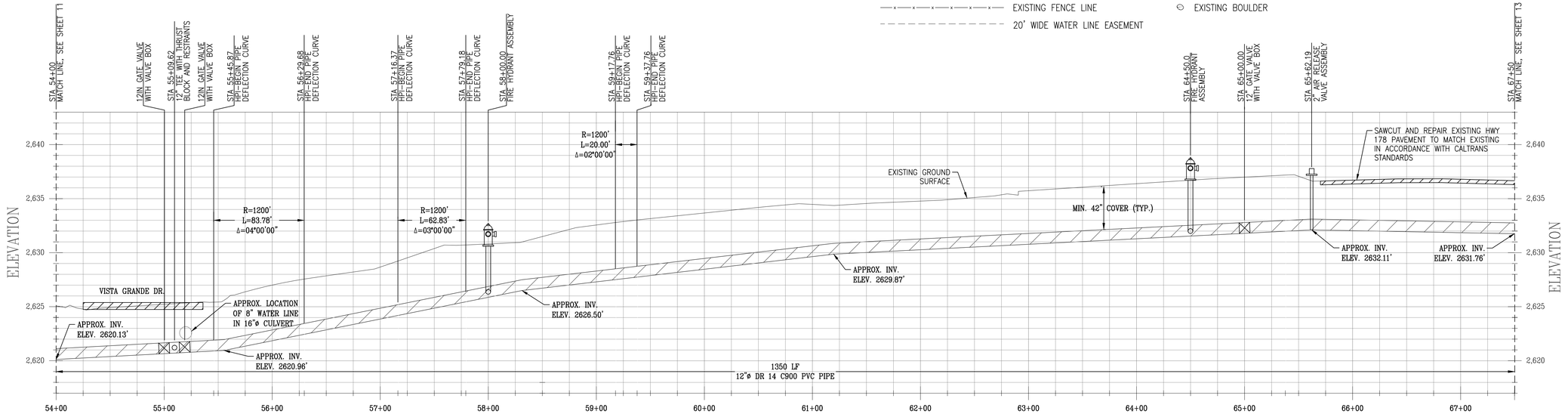

HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

NOTES:
THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS.

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NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS.

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GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL POTHOLE AND LOCATE ALL SEWER LATERALS, WATER, GAS SERVICES, AND UTILITIES ALONG PIPELINE ALIGNMENT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL USE CONTROLLED LONGITUDINAL BENDING WHEN POSSIBLE TO ACCOMPLISH SMALL CHANGES IN DIRECTION OF THE MAIN LINE ALIGNMENT. THE MAXIMUM ALLOWABLE BENDING FOR THE PVC PIPE SHALL BE IN ACCORDANCE WITH TABLE 8.2 OF THE UNI-BELL HANDBOOK OF PVC PIPE.
3. LINEAR LOW DENSITY POLYETHYLENE ENCASEMENT TO BE INSTALLED AROUND ALL BURIED METAL FITTINGS AND PIPE, INCLUDING: VALVES, STEEL FLANGES, FITTINGS, JOINT RESTRAINTS, BOLTS, ETC., IN ACCORDANCE WITH AWWA C105 STANDARDS. POLYETHYLENE ENCASEMENT SHALL BE COLORED.
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6. ALL PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C900 DR 18 PRESSURE CLASS 235, EXCEPT WHERE NOTED OTHERWISE. ALL FITTINGS FOR PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C110 OR C153.
7. EACH JOINT IN AND OUT OF ALL FITTINGS SHALL BE RESTRAINED AND A CONCRETE THRUST BLOCK INSTALLED IN ACCORDANCE WITH THRUST BLOCK DETAILS HEREIN.
8. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES SET FORTH BY THE COUNTY ENCROACHMENT PERMIT.
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10. SAWCUT AND REPAIR AC DRIVE APPROACHES TO MATCH EXISTING. CONTRACTOR TO MAINTAIN FACILITY INGRESS AND EGRESS DURING CONSTRUCTION.
11. SERVICES NOT SHOWN ON PROFILE VIEW FOR CLARITY. ONE-INCH DIAMETER SERVICES SHALL BE INSTALLED WITH ⅝" X ¾" METERS WITH REMOTE READ TRANSMITTER AND METER BOX. METERED SERVICE LOCATION SHALL BE COORDINATED IN FIELD WITH THE ENGINEER AND

SCALE 1"=50'
0 50' 100' 200'

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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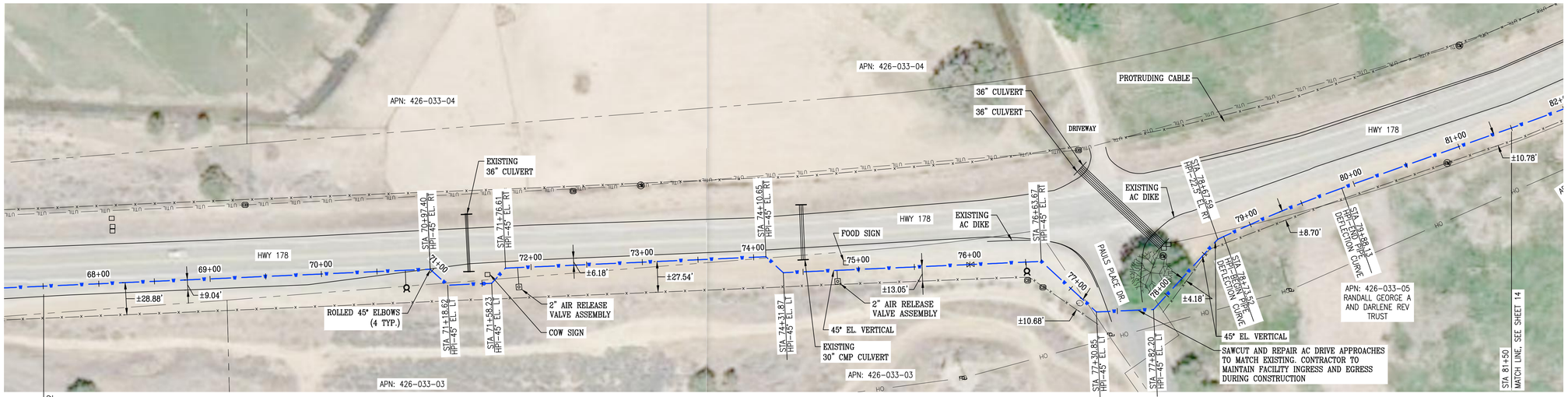
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
27230 UNION AVENUE, BLDG A
CASTAIC, CALIFORNIA 91384
PHONE 661 391-1796
FAX 661 257-1388
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-2286
FAX 559 781-9275

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

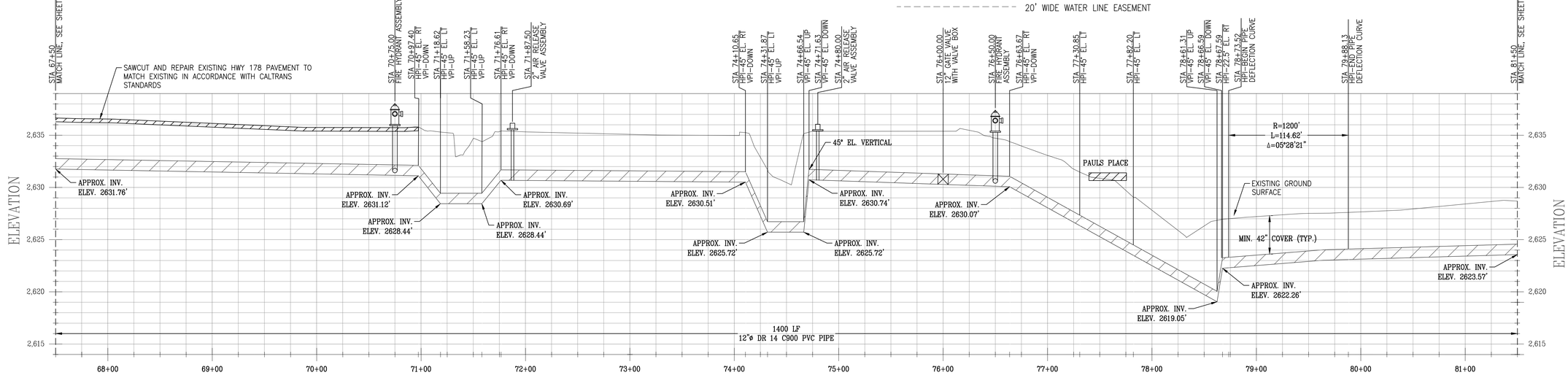
DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 12



HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE LINE
- 20' WIDE WATER LINE EASEMENT
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



HWY 178 ALIGNMENT – PROFILE VIEW
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VERTICAL SCALE: 1"=5'

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SCALE 1"=50'
0 50' 100' 200'

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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CIVIL ENGINEERS
2700 UNICORN ROAD, BLDG A
BAKERSFIELD, CA 93308
PHONE 661 393-4796
FAX 661 393-4798
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 791-9288
FAX 559 783-1975

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	13
OF	86 SHEETS

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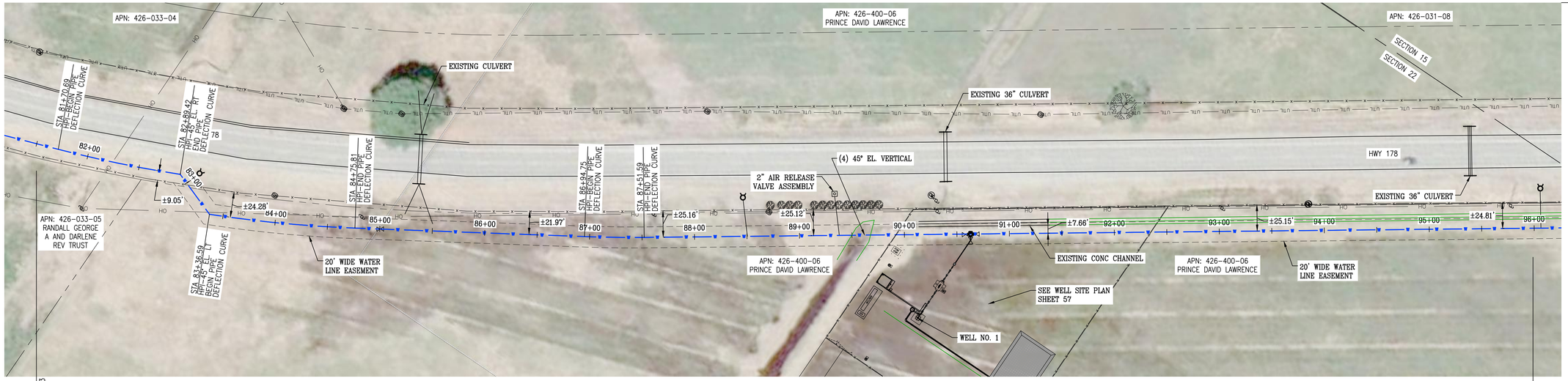
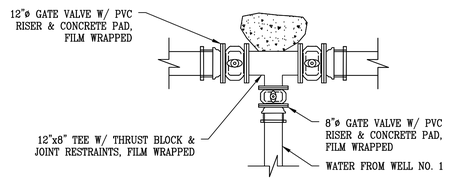


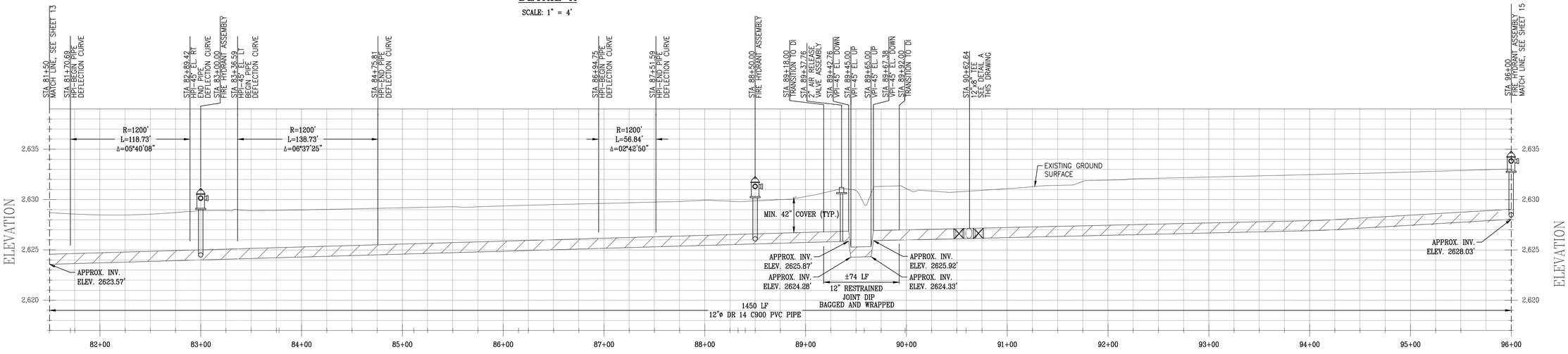
HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



DETAIL A
SCALE: 1" = 4'

LEGEND:

- NEW 12" PVC WATER MAIN
- OH — EXISTING OVERHEAD POWER LINES
- UTIL — EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE LINE
- 20' WIDE WATER LINE EASEMENT
- EXISTING SIGN
- MB — EXISTING MAIL BOX
- CB — EXISTING CABLE BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- WM — EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

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0 50' 100' 200'

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7			

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
27240 JACORN ROAD, BLDG A
PALOMAR, CALIFORNIA 92509
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PORTERVILLE, CALIFORNIA 93257
PHONE 661 393-4796
FAX 661 393-4798
PHONE 559 781-9288
FAX 559 783-1975

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN: JLT
CHECKED: CMS
DATE: JUNE 2016
SCALE: AS SHOWN
FILE:
JOB NO.
SHEET: 14
OF 86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\08-24. P&P 178.DWG 8/31/2017 4:24 PM

HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
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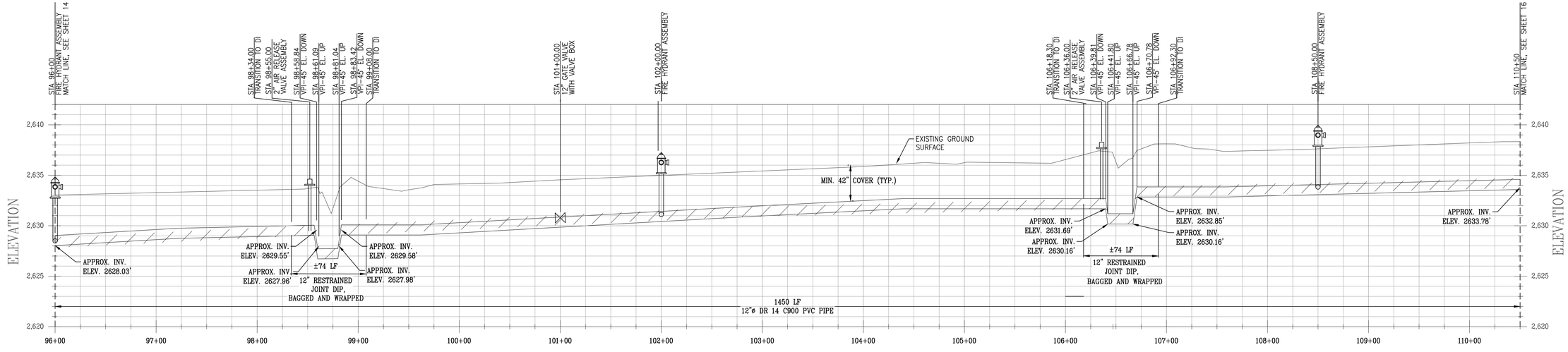

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6. ALL PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C900 DR 18 PRESSURE CLASS 235, EXCEPT WHERE NOTED OTHERWISE. ALL FITTINGS FOR PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C110 OR C153.
7. EACH JOINT IN AND OUT OF ALL FITTINGS SHALL BE RESTRAINED AND A CONCRETE THRUST BLOCK INSTALLED IN ACCORDANCE WITH THRUST BLOCK DETAILS HEREIN.
8. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES SET FORTH BY THE COUNTY ENCROACHMENT PERMIT.
9. TRENCH DEPTH AND SHORING APPLICATIONS SHALL COMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION IN STANDARDS – 29 CFR, PART 1926, SUBPART P.
10. SAWCUT AND REPAIR AC DRIVE APPROACHES TO MATCH EXISTING. CONTRACTOR TO MAINTAIN FACILITY INGRESS AND EGRESS DURING CONSTRUCTION.
11. SERVICES NOT SHOWN ON PROFILE VIEW FOR CLARITY. ONE-INCH DIAMETER SERVICES SHALL BE INSTALLED WITH ⅝" X ¾" METERS WITH REMOTE READ TRANSMITTER AND METER BOX. METERED SERVICE LOCATION SHALL BE COORDINATED IN FIELD WITH THE ENGINEER AND OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EACH METERED SERVICE UP TO THE FLOW METER AT THE PROPERTY LINE.

SCALE 1"=50'
0 50' 100' 200'

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2700 UNICORN ROAD, BLDG A
BAKERSFIELD, CA 93308
PHONE 661 393-4796
FAX 661 393-4798
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-2275
FAX 559 783-1975

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	15
OF	86 SHEETS

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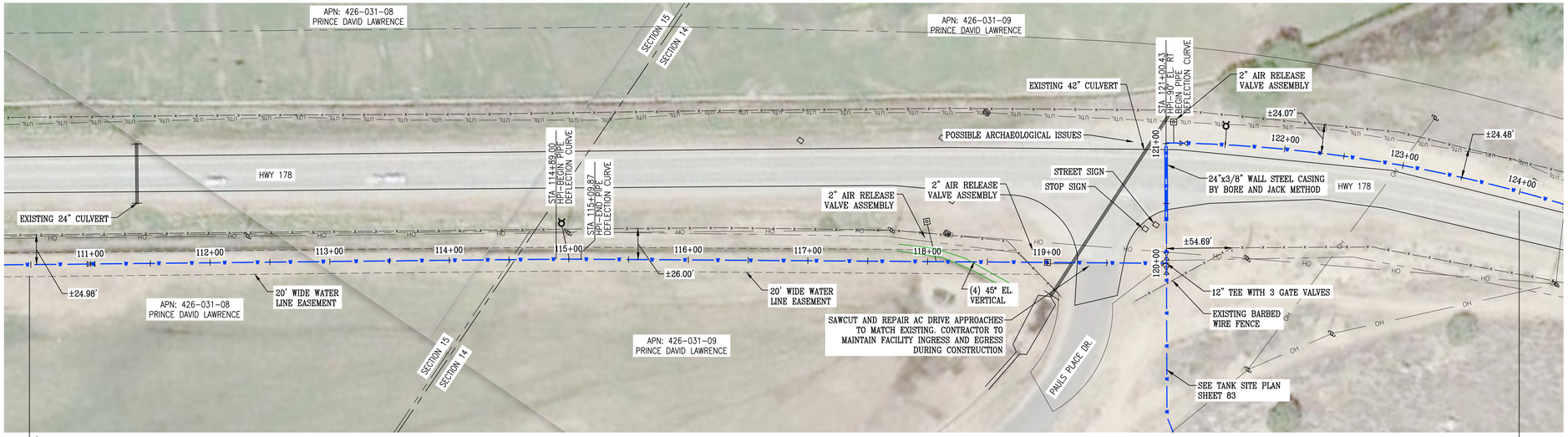
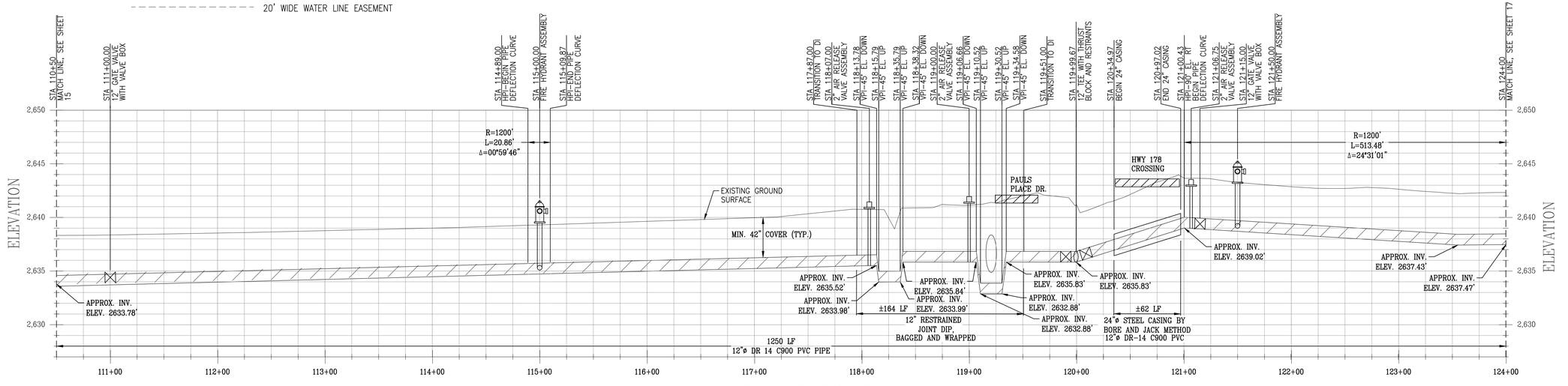


HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE LINE
- 20' WIDE WATER LINE EASEMENT
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

NOTES:
THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS.

THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES.

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CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL(S) HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL(S).

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3. LINEAR LOW DENSITY POLYETHYLENE ENCASEMENT TO BE INSTALLED AROUND ALL BURIED METAL FITTINGS AND PIPE, INCLUDING: VALVES, STEEL FLANGES, FITTINGS, JOINT RESTRAINTS, BOLTS, ETC., IN ACCORDANCE WITH AWWA C105 STANDARDS. POLYETHYLENE ENCASEMENT SHALL BE COLORED.
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PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-2288
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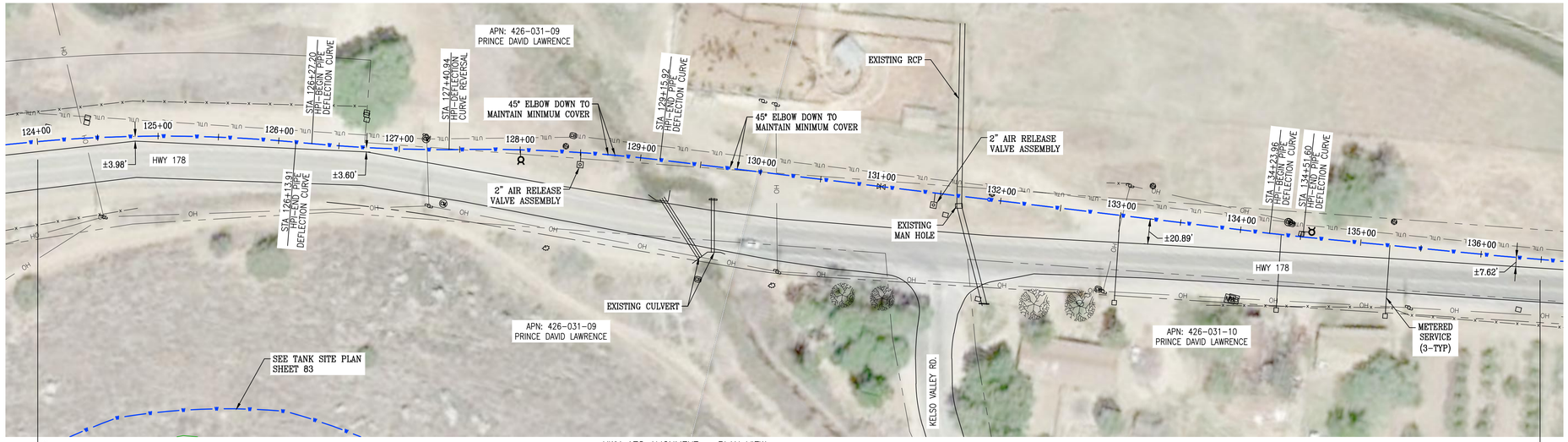
HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	16
OF	86 SHEETS



HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- OH — EXISTING OVERHEAD POWER LINES
- UTIL — EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE LINE
- 20' WIDE WATER LINE EASEMENT
- EXISTING SIGN
- MB EXISTING MAIL BOX
- CB EXISTING CABLE BOX
- M EXISTING CABLE MARKER
- EXISTING WATER VALVE
- WM EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- B EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
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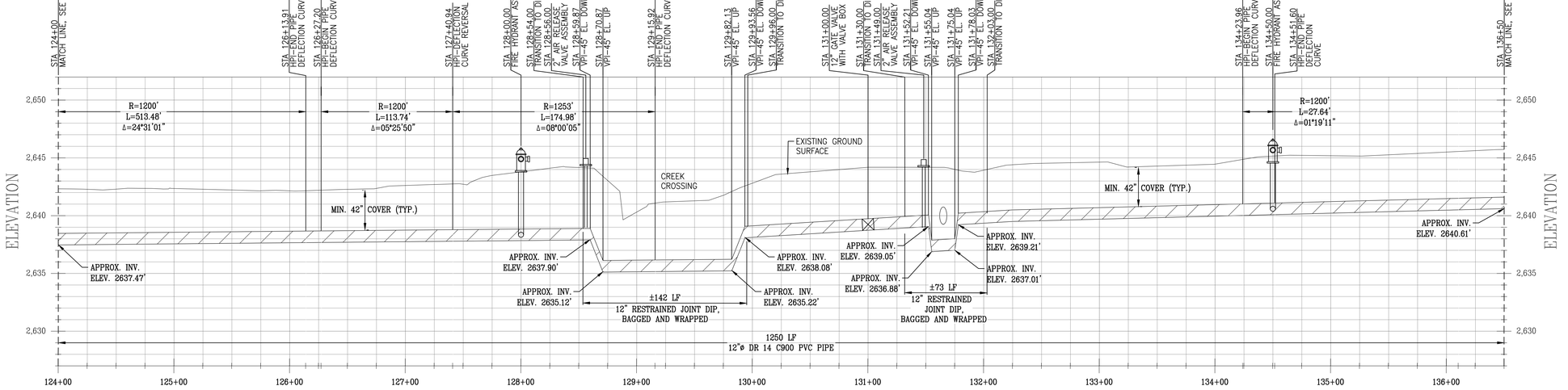

HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

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0 50' 100' 200'

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PORTERVILLE, CALIFORNIA 93257
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FAX 559 783-1975

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	17
OF	86 SHEETS

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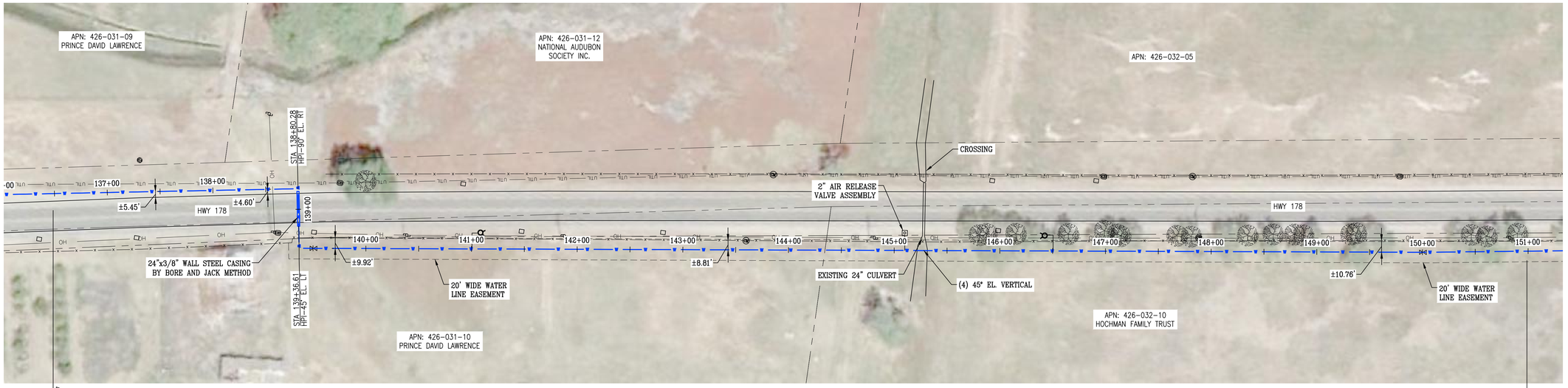

HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
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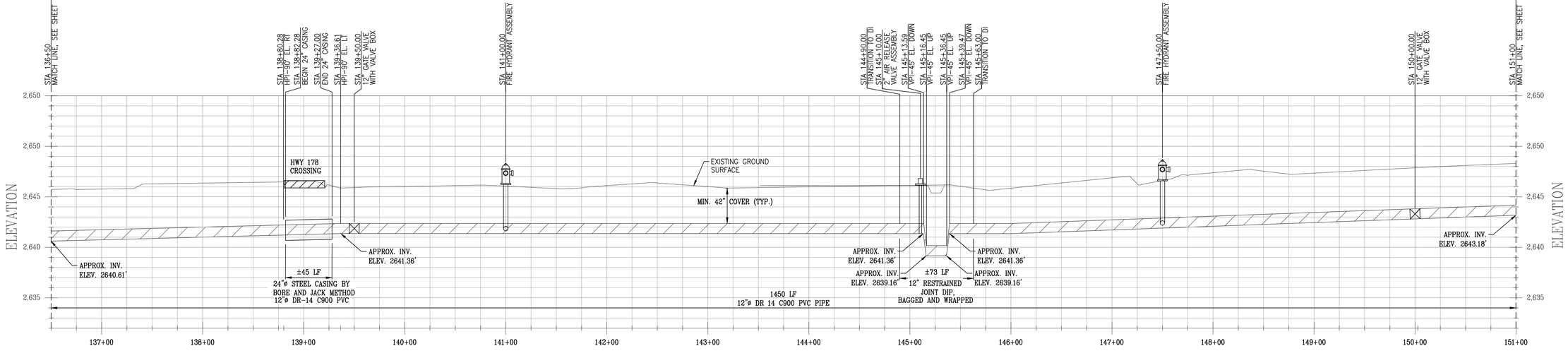

HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

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HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 18
OF 86 SHEETS

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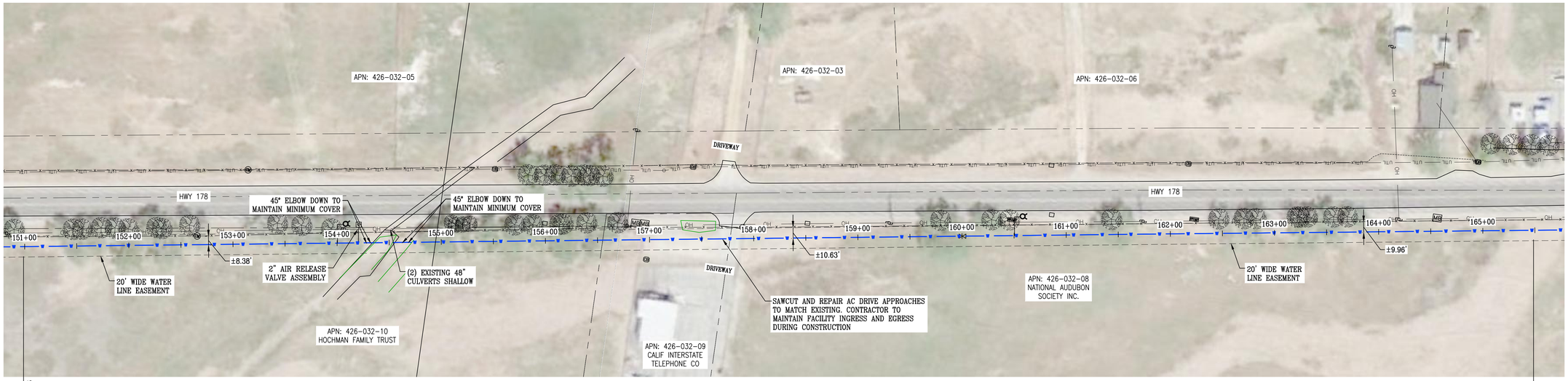
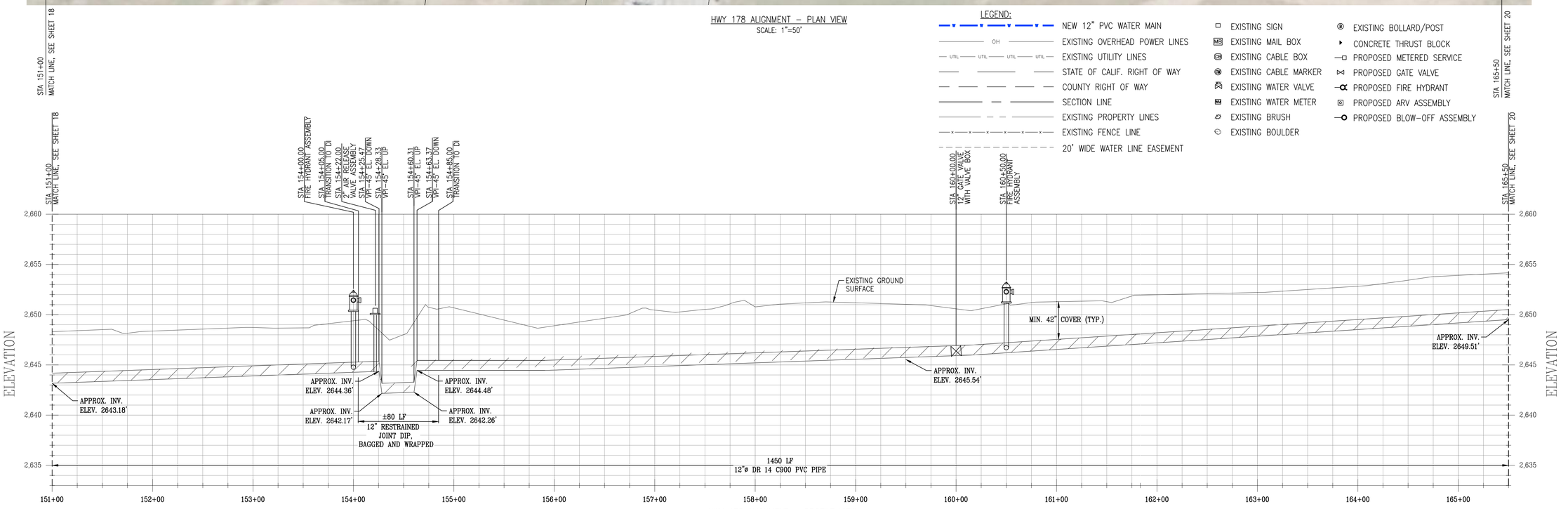


HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE LINE
- 20' WIDE WATER LINE EASEMENT
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

NOTES:
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3. LINEAR LOW DENSITY POLYETHYLENE ENCASEMENT TO BE INSTALLED AROUND ALL BURIED METAL FITTINGS AND PIPE, INCLUDING: VALVES, STEEL FLANGES, FITTINGS, JOINT RESTRAINTS, BOLTS, ETC., IN ACCORDANCE WITH AWWA C105 STANDARDS. POLYETHYLENE ENCASEMENT SHALL BE COLORED.
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SCALE 1"=50'
0 50' 100' 200'

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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CIVIL ENGINEERS
2230 JACORN ROAD BLDG A
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FAX 661 393-4798
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1975

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	19
OF	86 SHEETS

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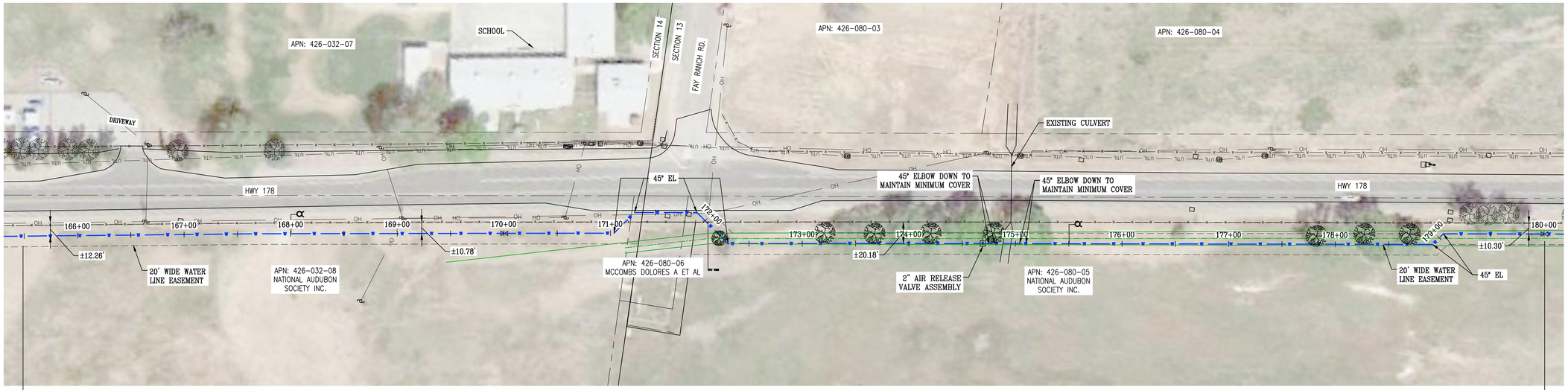

HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE LINE
- 20' WIDE WATER LINE EASEMENT
- EXISTING SIGN
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- EXISTING CABLE MARKER
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- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
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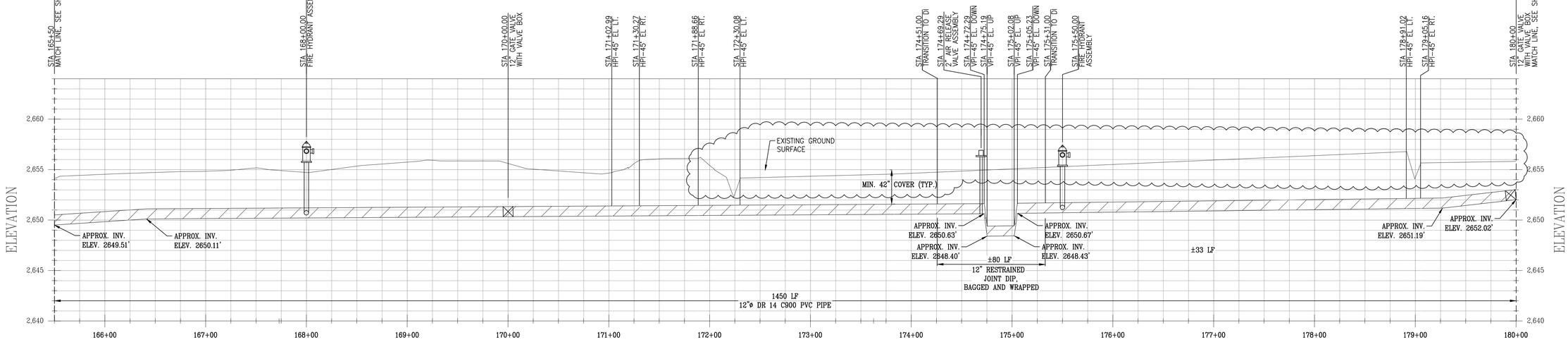

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VERTICAL SCALE: 1"=5'

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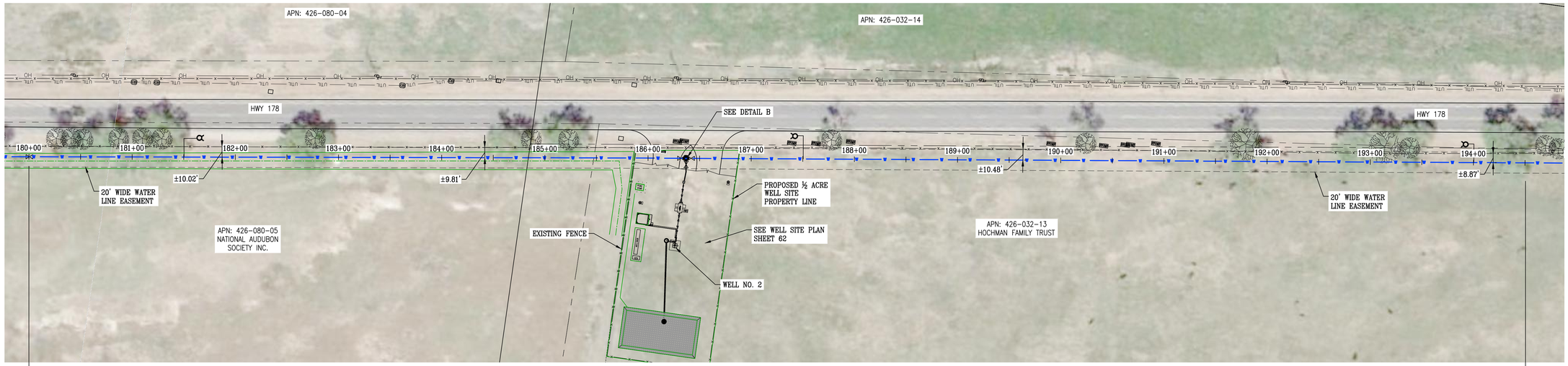
HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	20
OF	86 SHEETS



HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

DETAIL B
SCALE: 1" = 4'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
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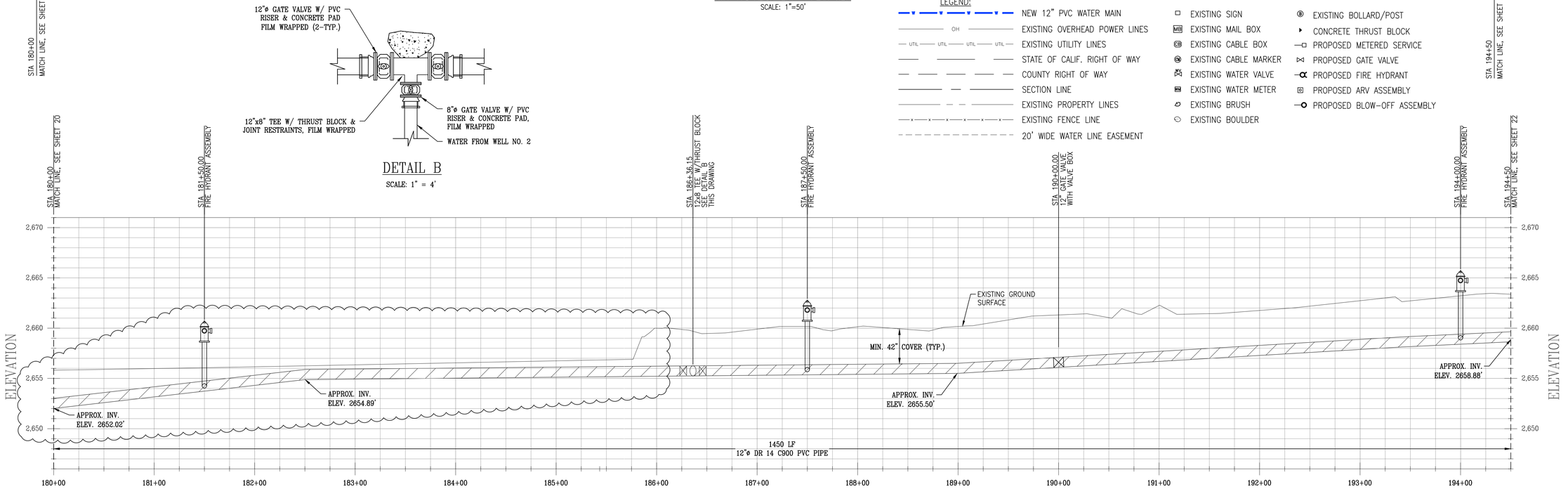

HWY 178 ALIGNMENT – PROFILE VIEW
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VERTICAL SCALE: 1"=5'

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15 W. PUTNAM AVENUE, 2ND FLOOR FAX 559 783-1975
PORTERVILLE, CALIFORNIA 93257

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	21
OF	86 SHEETS

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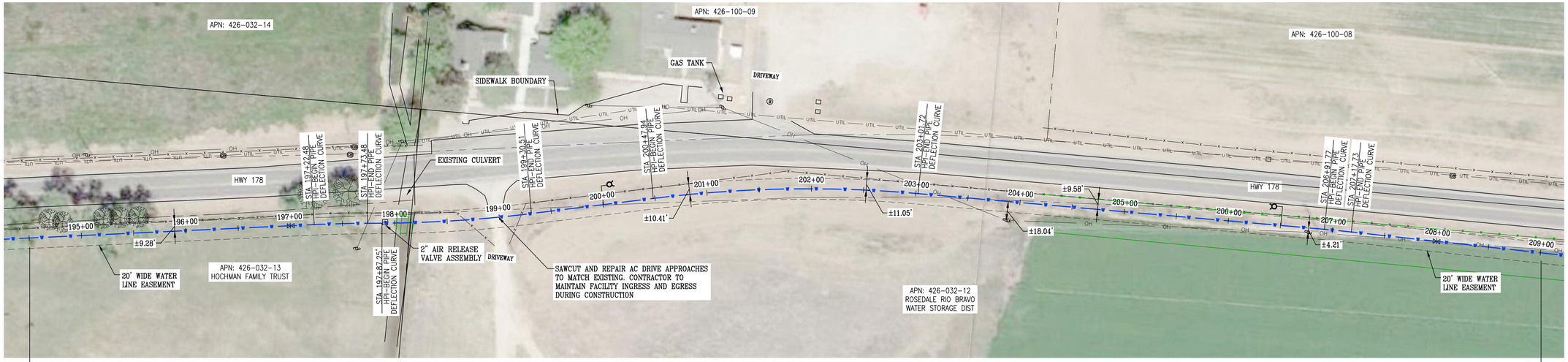

HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
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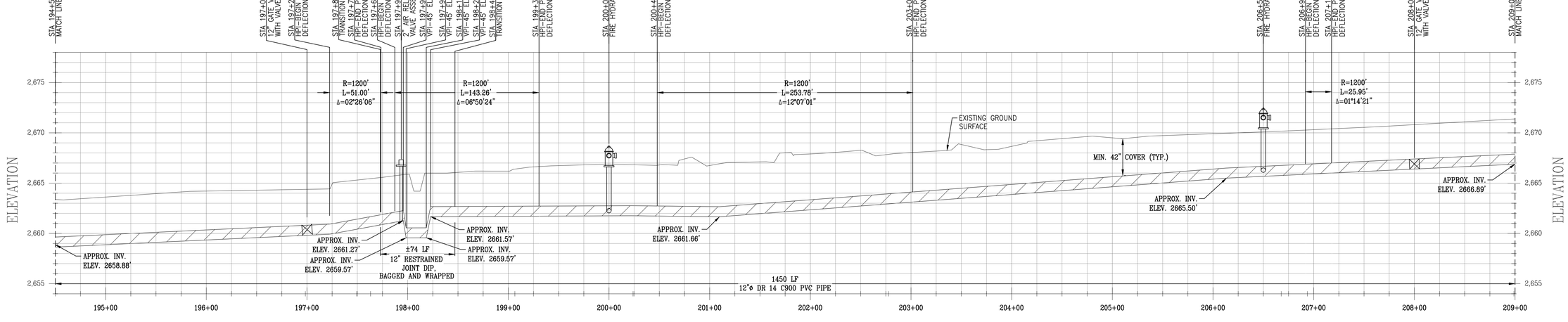

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8. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES SET FORTH BY THE COUNTY ENCROACHMENT PERMIT.
9. TRENCH DEPTH AND SHORING APPLICATIONS SHALL COMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION IN STANDARDS – 29 CFR, PART 1926, SUBPART P.
10. SAWCUT AND REPAIR AC DRIVE APPROACHES TO MATCH EXISTING. CONTRACTOR TO MAINTAIN FACILITY INGRESS AND EGRESS DURING CONSTRUCTION.
11. SERVICES NOT SHOWN ON PROFILE VIEW FOR CLARITY. ONE-INCH DIAMETER SERVICES SHALL BE INSTALLED WITH ⅝" X ¾" METERS WITH REMOTE READ TRANSMITTER AND METER BOX. METERED SERVICE LOCATION SHALL BE COORDINATED IN FIELD WITH THE ENGINEER AND OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EACH METERED SERVICE UP TO THE FLOW METER AT THE PROPERTY LINE.

SCALE 1"=50'
0 50' 100' 200'

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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2700 UNICORN ROAD, BLDG A
BAKERSFIELD, CA 93308
PHONE 661 393-4796
FAX 661 393-4808
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1975

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	22
OF	86 SHEETS

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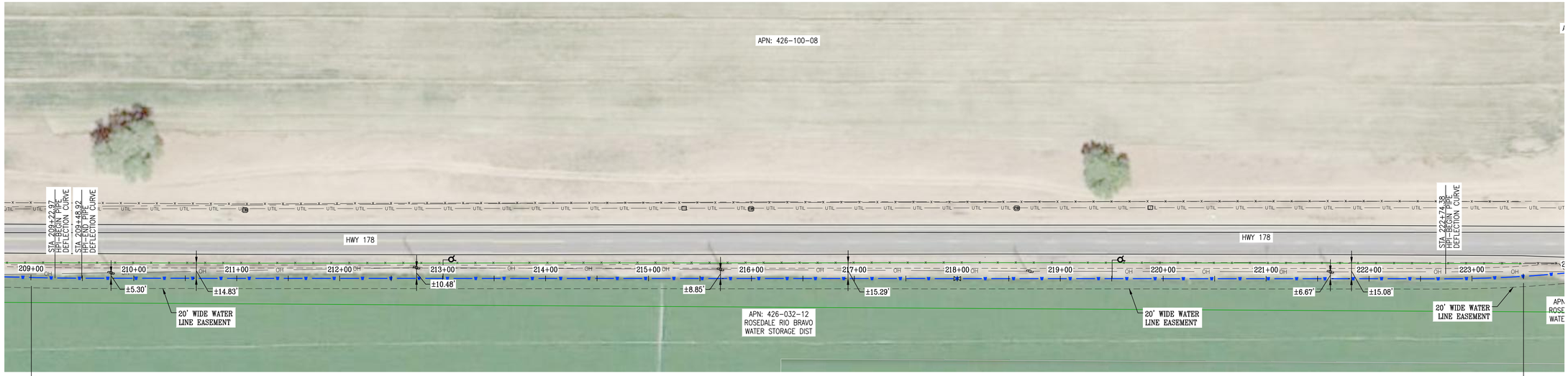
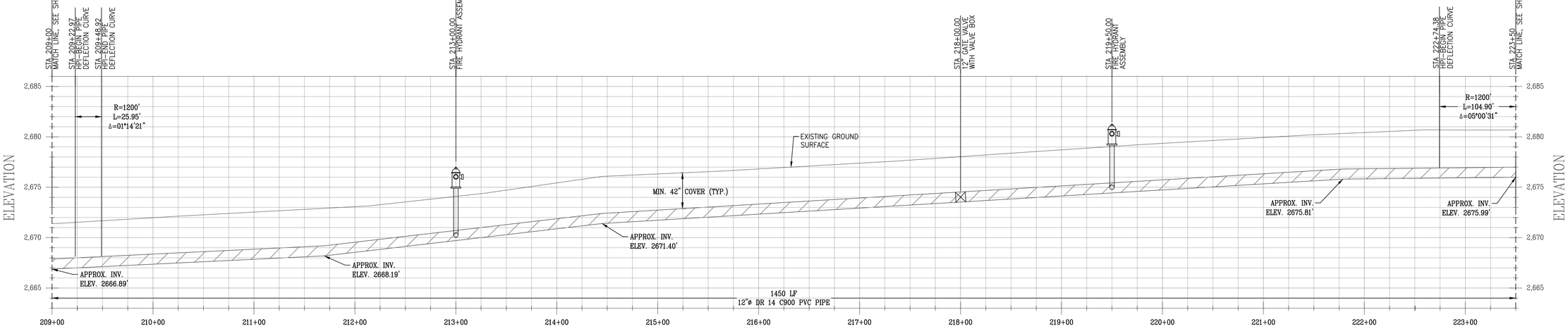


HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE LINE
- 20' WIDE WATER LINE EASEMENT
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

NOTES:
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2230 JACORN ROAD, BLDG A
BAKERSFIELD, CA 93309
PHONE 661 393-4796
FAX 661 393-4798
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1975

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	23
OF	86 SHEETS

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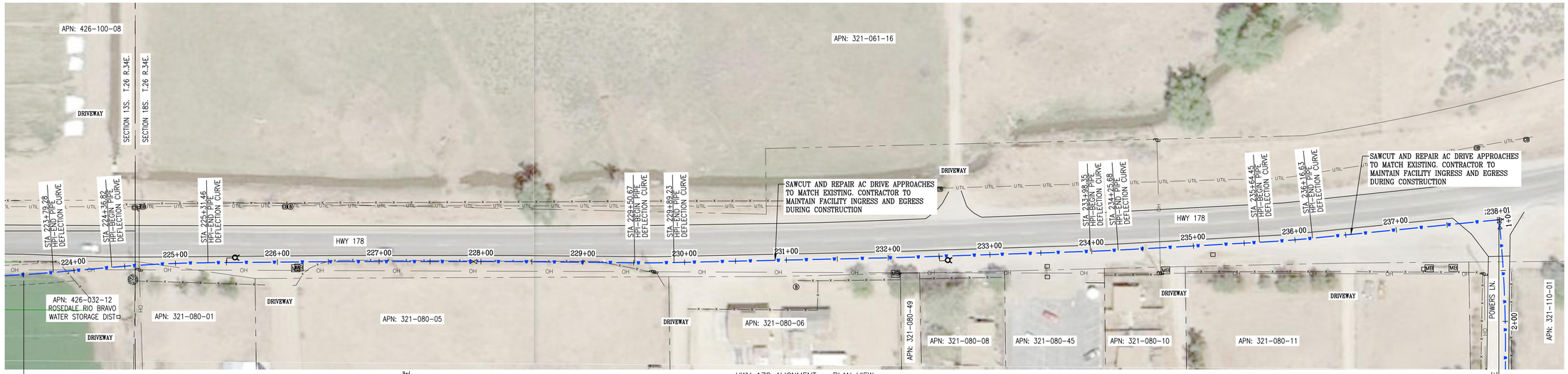
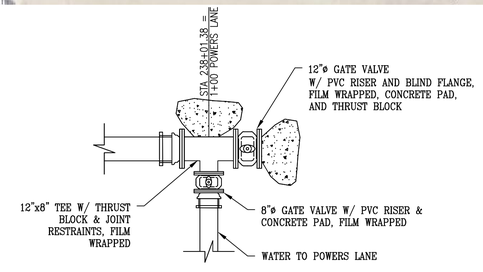


HWY 178 ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

STA 223+50
MATCH LINE, SEE SHEET 23

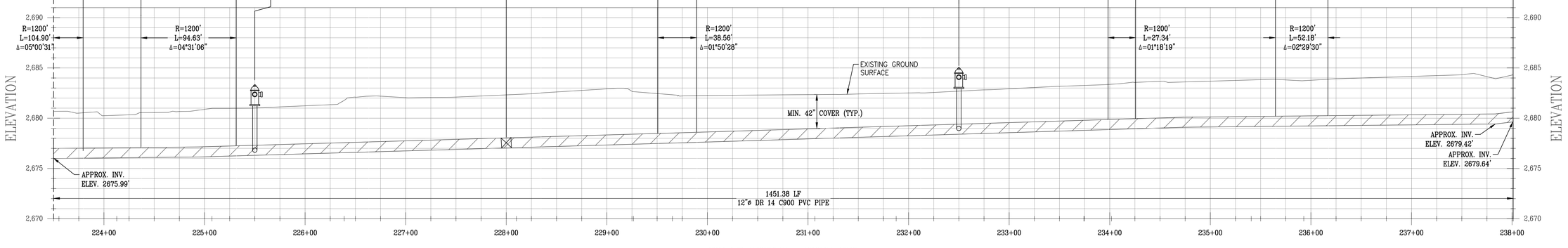


DETAIL C
SCALE: 1" = 4'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- STATE OF CALIF. RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE LINE
- 20' WIDE WATER LINE EASEMENT
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY

STA 238+01.38 = 1+00 POWERS LANE
12x8 RED TEE W/GATE VALVES AND THRUST BLOCK
SEE DETAIL C THIS SHEET
END WATER MAIN



HWY 178 ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

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0 50' 100' 200'

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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
5200 LAUREL CANYON BLVD. #300
VALLEY VILLAGE, CA 91607-5809
PHONE 818 761-1225
FAX 818 761-1626
661 393-4796
559 781-9286
559 782-9275

HWY 178 ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	24
OF	86 SHEETS

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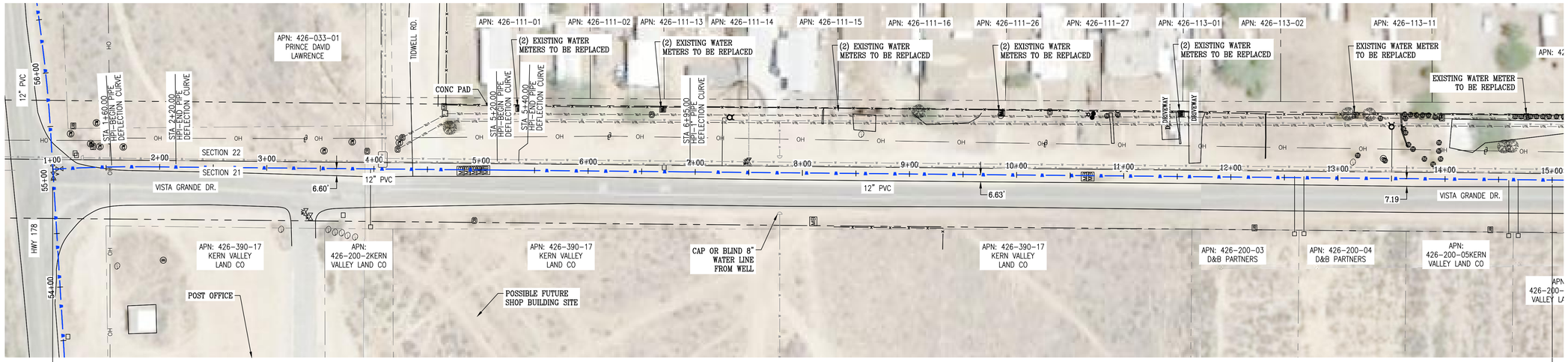

SCALE 1"=50'

0 50' 100' 200'

VISTA GRANDE DR. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXIST PROPERTY LINES
- EXISTING FENCE LINE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
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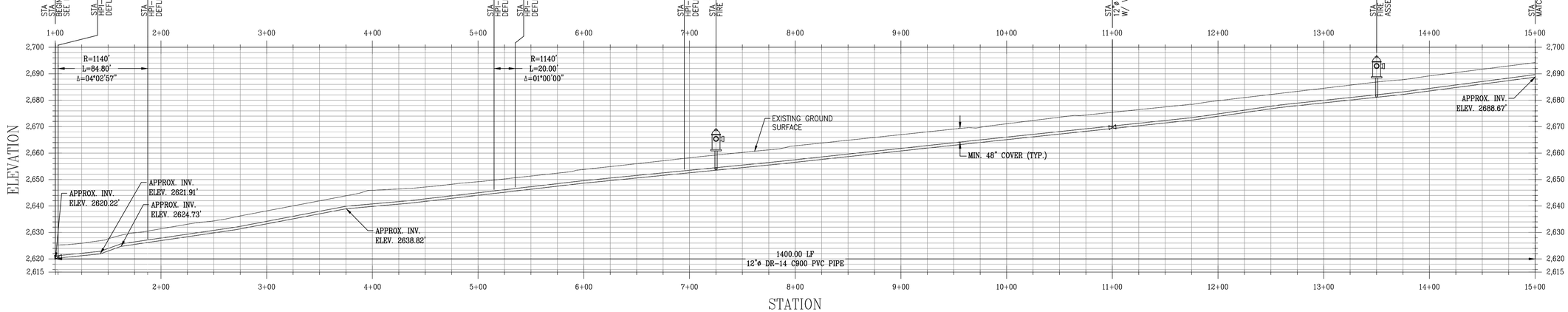

VISTA GRANDE DR. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

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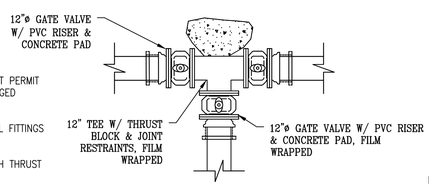

DETAIL D
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2220 UNICORN ROAD BLDG A
BAKERSFIELD, CA 93308
PHONE 661 393-4796
FAX 661 393-4798
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1975

VISTA GRANDE DR. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	25
OF	86 SHEETS

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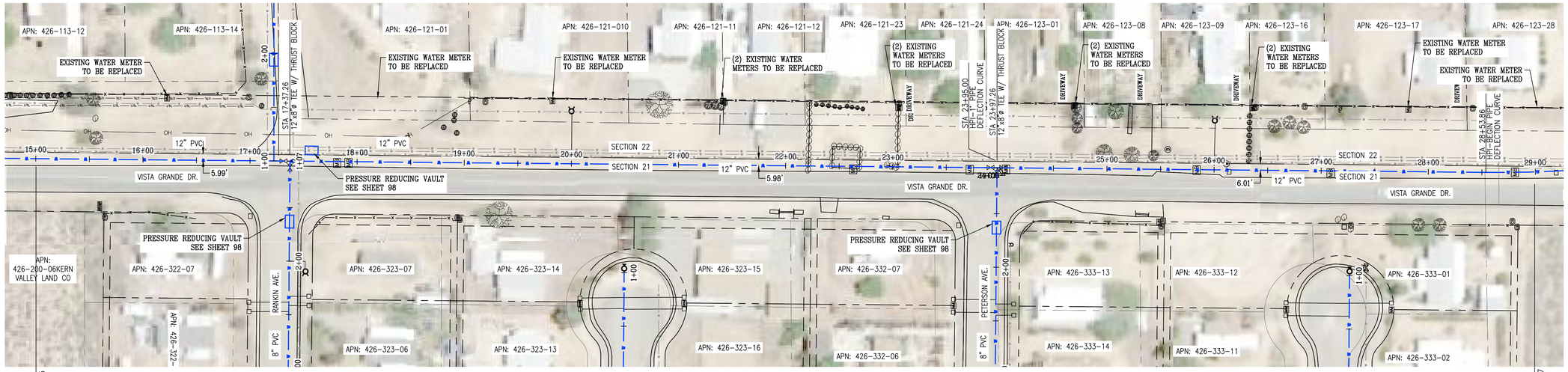
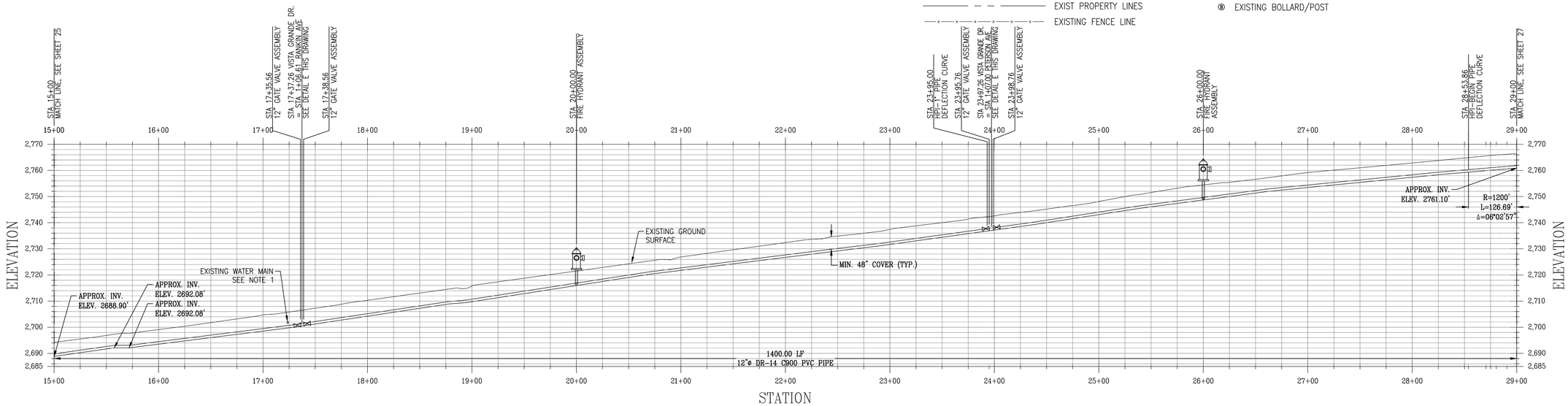


VISTA GRANDE DR. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

SCALE 1"=50'
0 50' 100' 200'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXIST PROPERTY LINES
- EXISTING FENCE LINE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



VISTA GRANDE DR. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

NOTES:
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THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES.

NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS.

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GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL POTHOLE AND LOCATE ALL SEWER LATERALS, WATER, GAS SERVICES, AND UTILITIES ALONG PIPELINE ALIGNMENT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL USE CONTROLLED LONGITUDINAL BENDING WHEN POSSIBLE TO ACCOMPLISH SMALL CHANGES IN DIRECTION OF THE MAIN LINE ALIGNMENT. THE MAXIMUM ALLOWABLE BENDING FOR THE PVC PIPE SHALL BE IN ACCORDANCE WITH TABLE 8.2 OF THE UNI-BELL HANDBOOK OF PVC PIPE.
3. LINEAR LOW DENSITY POLYETHYLENE ENCASEMENT TO BE INSTALLED AROUND ALL BURIED METAL FITTINGS AND PIPE, INCLUDING: VALVES, STEEL FLANGES, FITTINGS, JOINT RESTRAINTS, BOLTS, ETC., IN ACCORDANCE WITH AWWA C105 STANDARDS. POLYETHYLENE ENCASEMENT SHALL BE COLORED.
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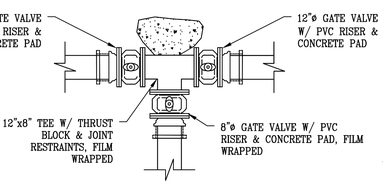
5. CONTRACTOR SHALL PERFORM ALL WORK IN COUNTY RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF THE ENCROACHMENT PERMIT AND THE REQUIREMENTS OF THE COUNTY INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY PAVEMENT DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE COUNTY AND THE ENGINEER.
6. ALL PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C900 DR 18 PRESSURE CLASS 235, EXCEPT WHERE NOTED OTHERWISE. ALL FITTINGS FOR PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C110 OR C153.
7. EACH JOINT IN AND OUT OF ALL FITTINGS SHALL BE RESTRAINED AND A CONCRETE THRUST BLOCK INSTALLED IN ACCORDANCE WITH THRUST BLOCK DETAILS HEREIN.
8. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES SET FORTH BY THE COUNTY ENCROACHMENT PERMIT.
9. TRENCH DEPTH AND SHORING APPLICATIONS SHALL COMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION IN STANDARDS – 29 CFR, PART 1926, SUBPART P.
10. SAWCUT AND REPAIR AC DRIVE APPROACHES TO MATCH EXISTING. CONTRACTOR TO MAINTAIN FACILITY INGRESS AND EGRESS DURING CONSTRUCTION.
11. SERVICES NOT SHOWN ON PROFILE VIEW FOR CLARITY. ONE-INCH DIAMETER SERVICES SHALL BE INSTALLED WITH ⅝" X ¾" METERS WITH REMOTE READ TRANSMITTER AND METER BOX. METERED SERVICE LOCATION SHALL BE COORDINATED IN FIELD WITH THE ENGINEER AND OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EACH METERED SERVICE UP TO THE FLOW METER AT THE PROPERTY LINE.



DETAIL E
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VISTA GRANDE DR. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	26
OF	86 SHEETS

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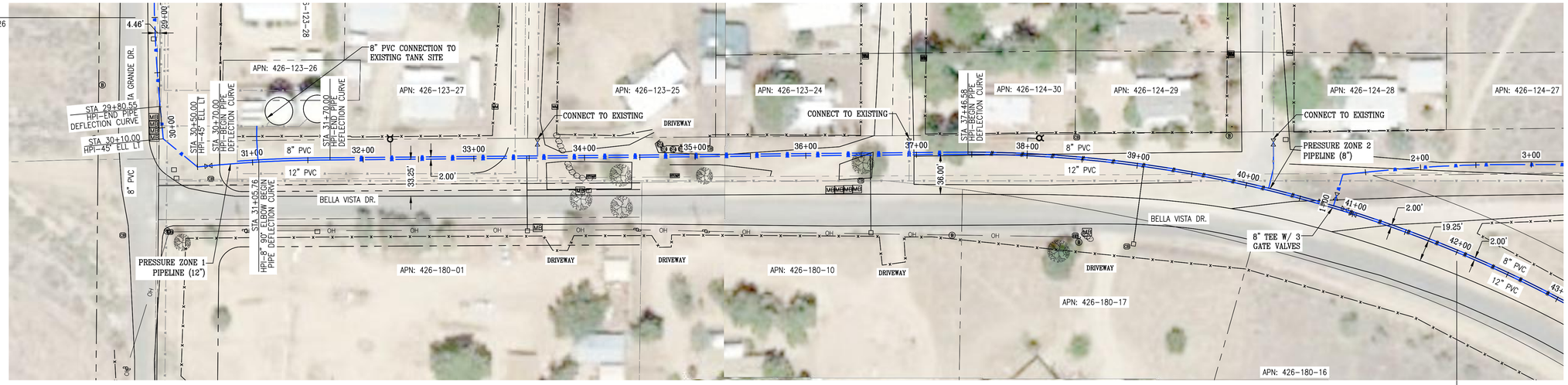

BELLA VISTA DR. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

SCALE 1"=50'
0 50' 100' 200'

LEGEND:

- NEW 8" OR 12" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXIST PROPERTY LINES
- EXISTING FENCE LINE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
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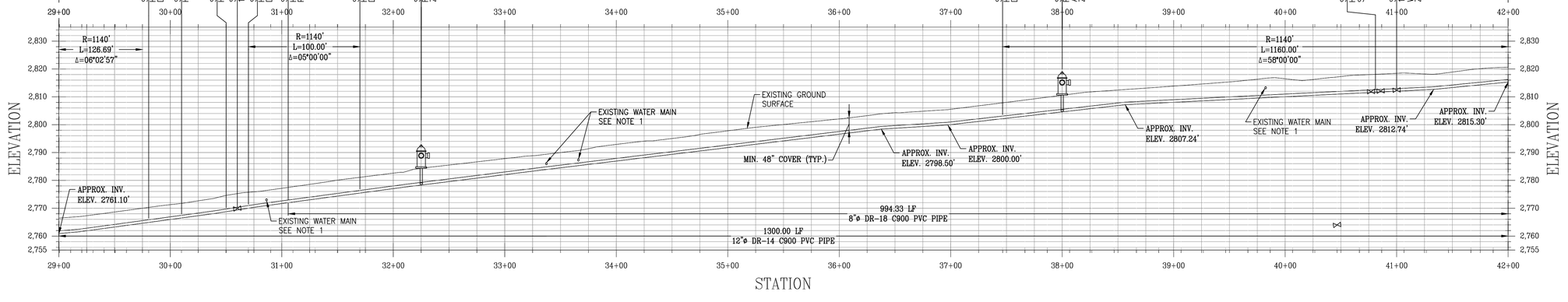

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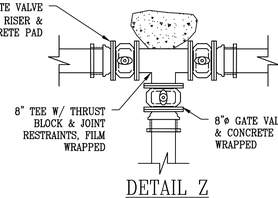

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BELLA VISTA DR. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
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SCALE AS SHOWN
FILE
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SHEET 27
OF 86 SHEETS

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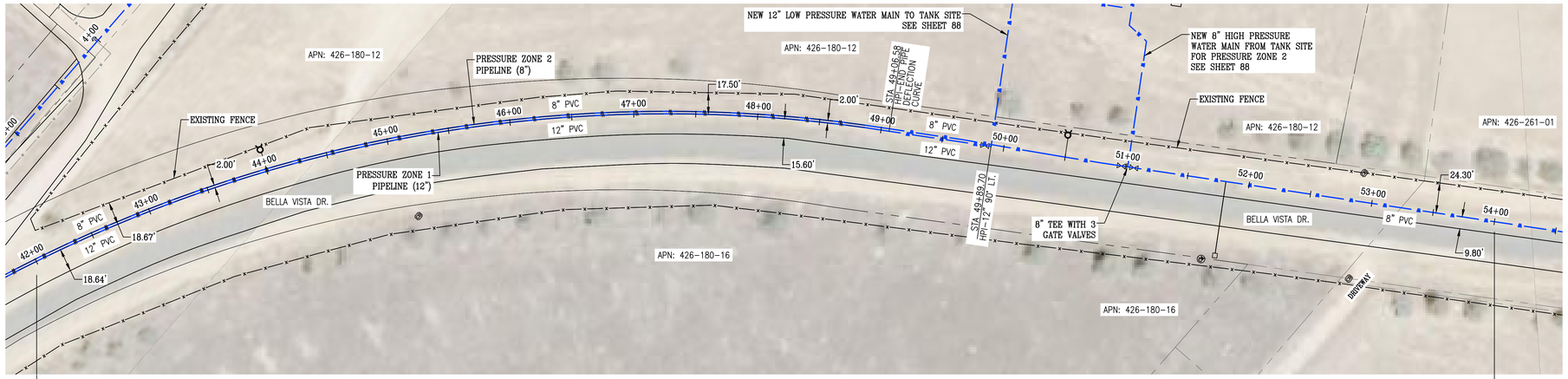

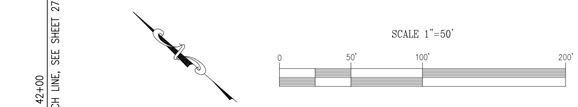

BELLA VISTA DR. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

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- EXISTING WATER MAIN
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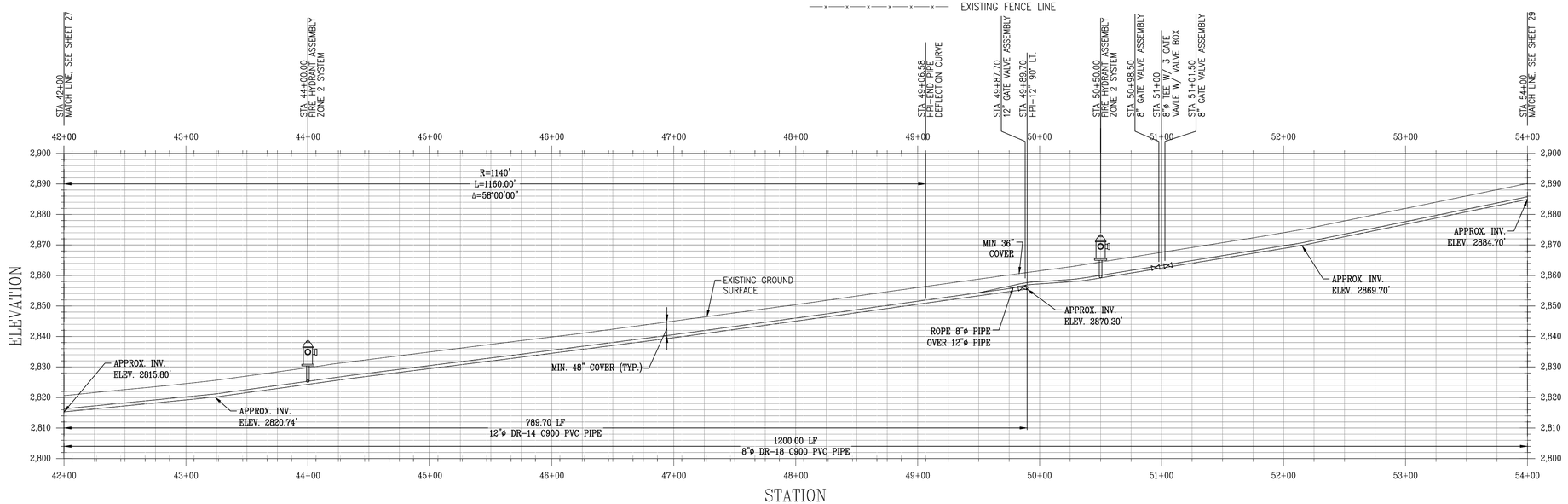

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KERN COUNTY, CALIFORNIA

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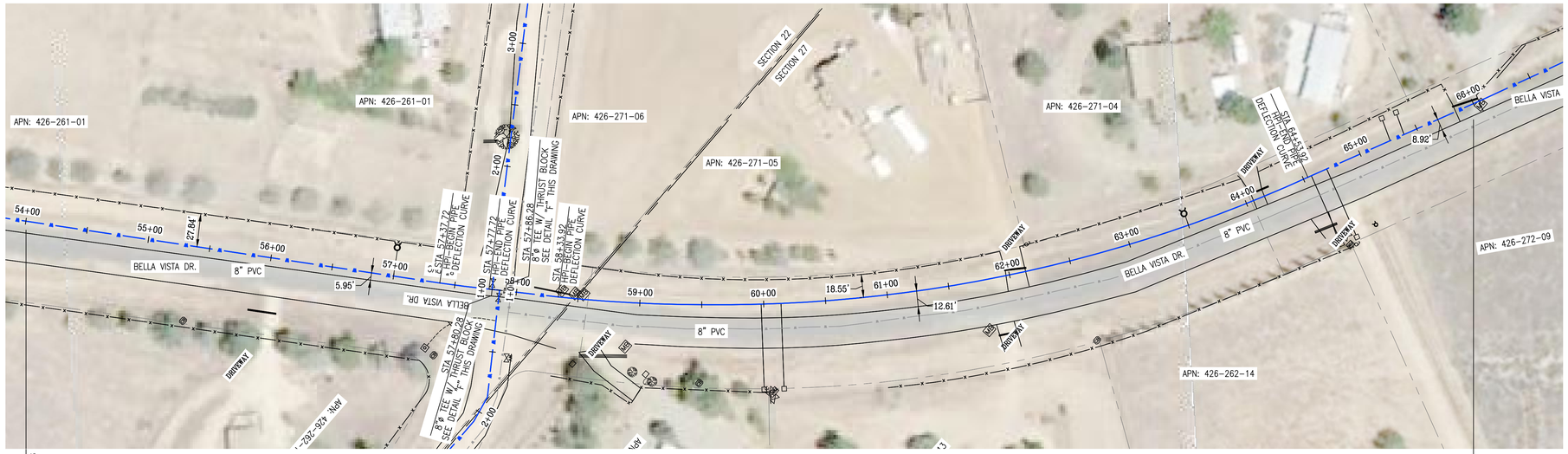
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APN: 426-271-06
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APN: 426-272-09
APN: 426-262-14
SECTION 22
SECTION 27
BELLA VISTA
BELLA VISTA DR.
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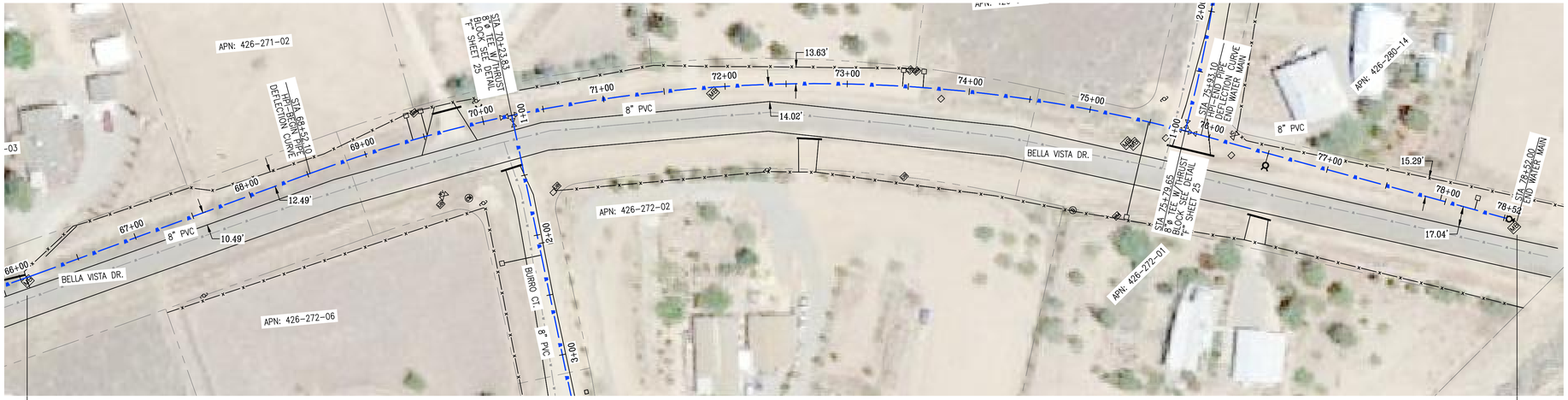
66+00
3+00
2+00
1+00
1+00
2+00
27.84'
5.95'
18.55'
12.61'
8.92'
DRIVEWAY
DRIVEWAY
DRIVEWAY
DRIVEWAY
DRIVEWAY
STA 57+77.72
HPT-END PIPE
8"ø DR-18 C900 PVC PIPE
DEFLECTION CURVE
STA 57+77.72
HPT-END PIPE
8"ø DR-18 C900 PVC PIPE
DEFLECTION CURVE
STA 57+86.28
8"ø TEE W/ THRUST BLOCK
SEE DETAIL "F" THIS DRAWING
STA 58+33.92
HPT-BEGIN PIPE
8"ø DR-18 C900 PVC PIPE
DEFLECTION CURVE
STA 57+80.28
8"ø TEE W/ THRUST BLOCK
SEE DETAIL "F" THIS DRAWING
STA 64+53.92
HPT-BEGIN PIPE
8"ø DR-18 C900 PVC PIPE
DEFLECTION CURVE
MB
MB
MB



LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
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- EXISTING FENCE LINE
- EXISTING SIGN
- EXISTING MAIL BOX
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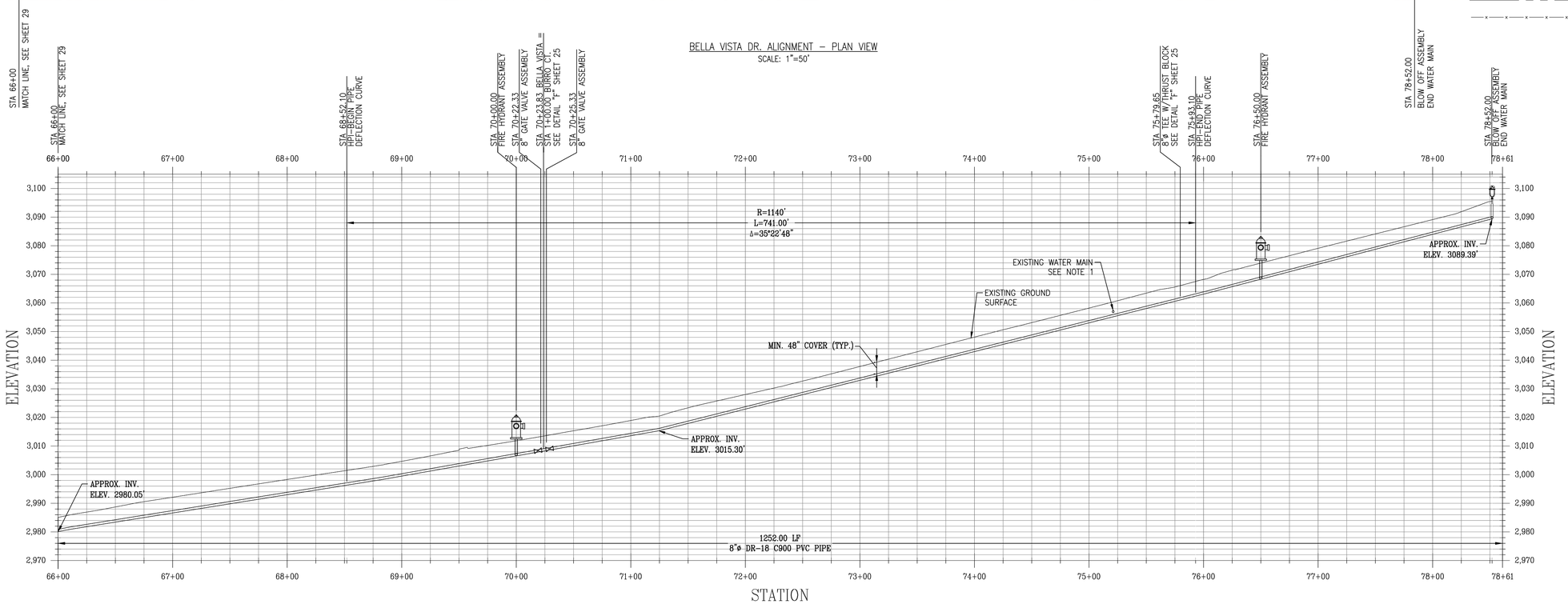
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY

BELLA VISTA DR. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



BELLA VISTA DR. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

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6. ALL PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C900 DR 18 PRESSURE CLASS 235, EXCEPT WHERE NOTED OTHERWISE. ALL FITTINGS FOR PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C110 OR C153.
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SCALE 1"=50'
0 50' 100' 200'

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
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TWO WORKING DAYS
BEFORE YOU DIG

REV.	DATE	DESCRIPTION	BY
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2			
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4			
5			
6			
7			

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2220 UNICORN ROAD, BLDG A
BAKERSFIELD, CA 93308
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15 W. PUTNAM AVENUE, 2ND FLOOR
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PHONE 559 781-1975
FAX

BELLA VISTA DR. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	30
OF	86 SHEETS

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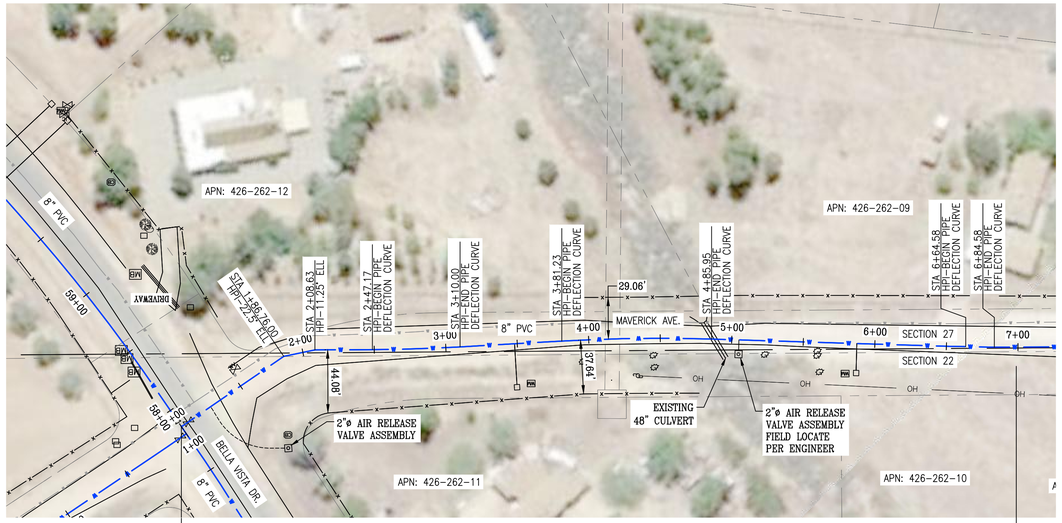
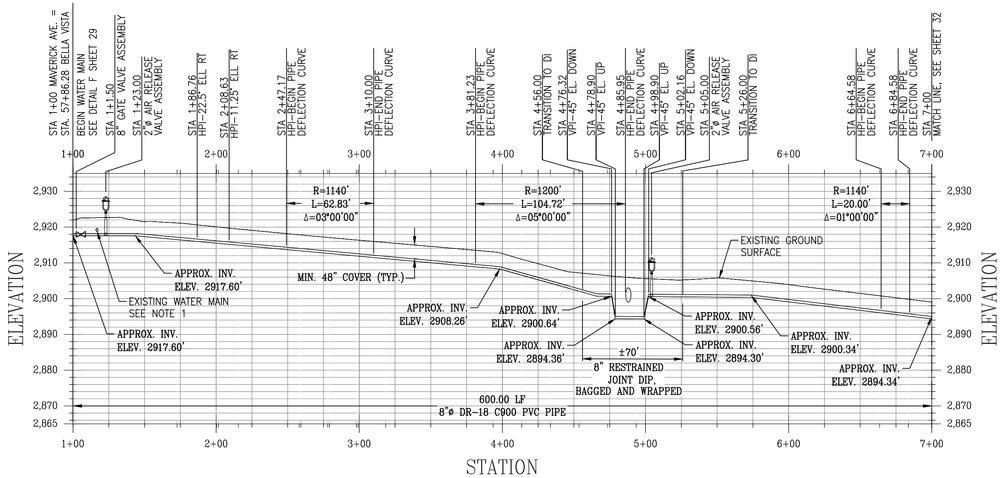


MAVERICK AVE. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

SCALE 1"=50'

0 50' 100' 200'



MAVERICK AVE. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

LEGEND:

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MAVERICK AVE. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	31
OF	86 SHEETS

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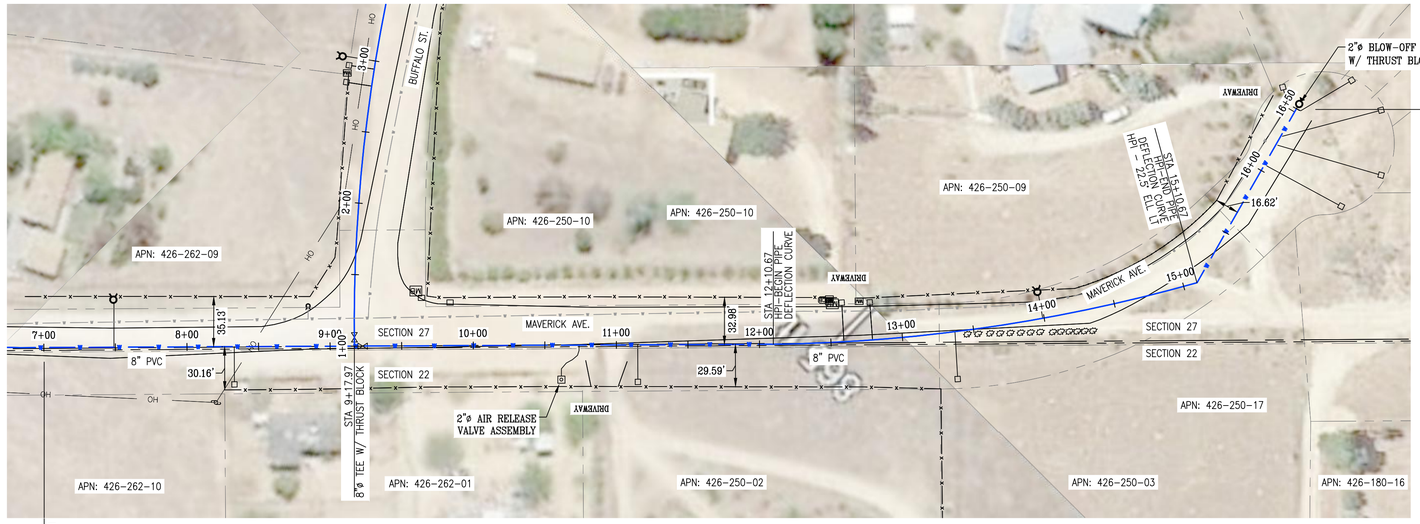
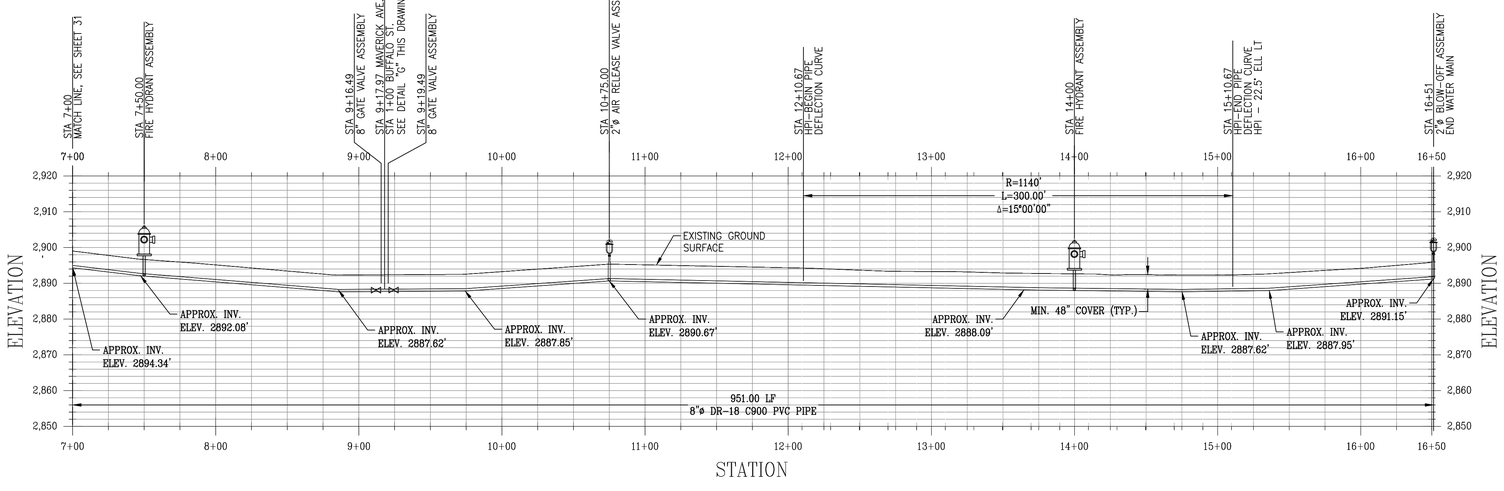


MAVERICK AVE. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

SCALE 1"=50'
0 50' 100' 200'



MAVERICK AVE. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

LEGEND:

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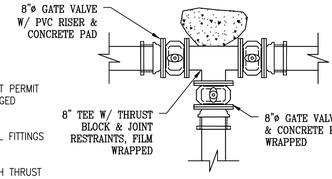

DETAIL G
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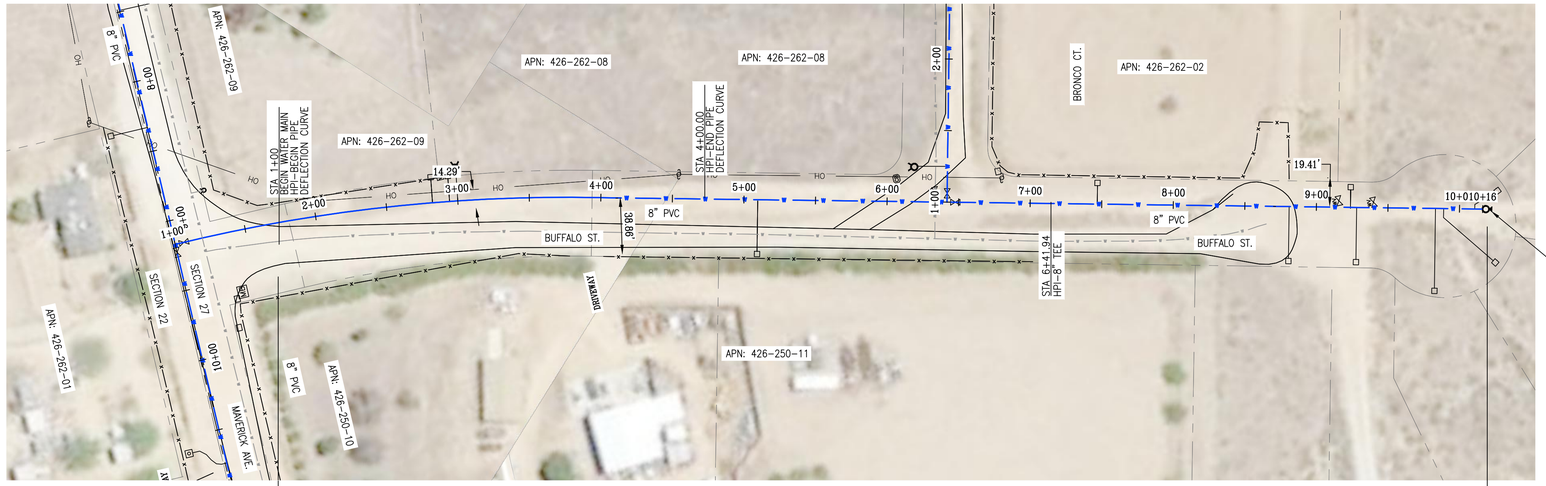
MAVERICK AVE. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN: JLT
CHECKED: CMS
DATE: JUNE 2016
SCALE: AS SHOWN
FILE:
JOB NO.
SHEET: 32
OF 86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\27-34. P&P BELLA VISTA.DWG 8/31/2017 4:53 PM



BUFFALO ST. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

SCALE 1"=50'
0 50' 100' 200'

LEGEND:

- NEW 8" PVC WATER MAIN
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- EXISTING OVERHEAD POWER LINES
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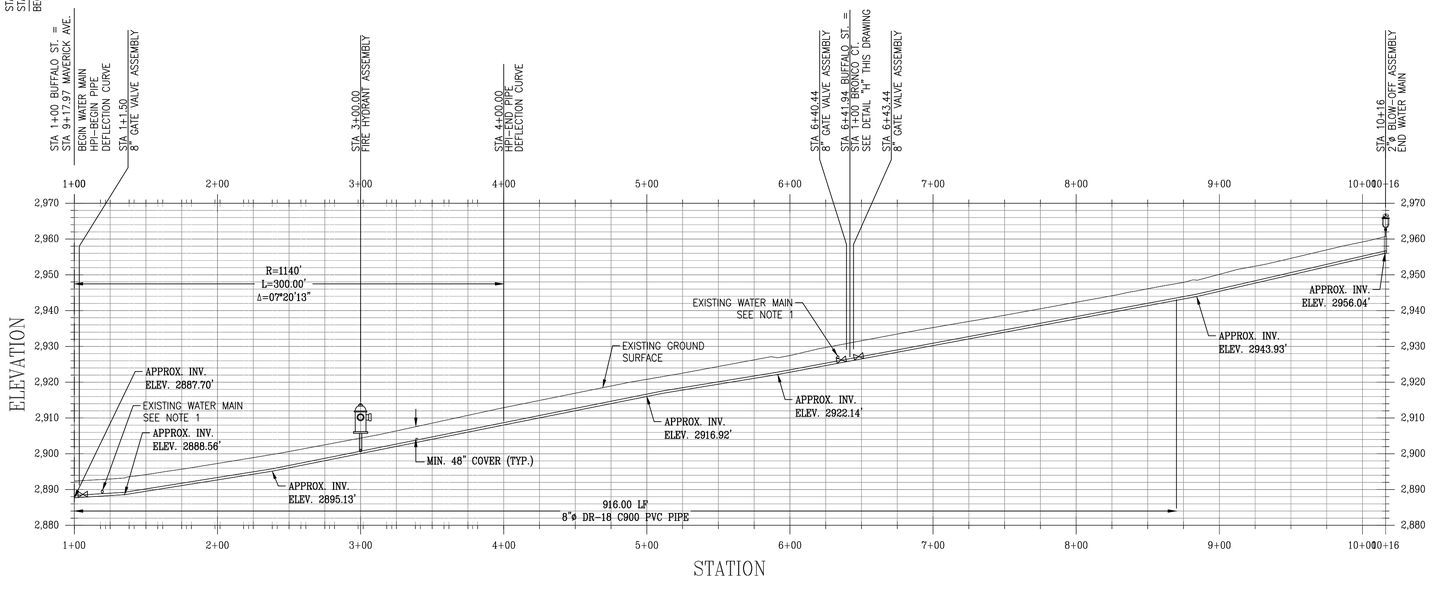

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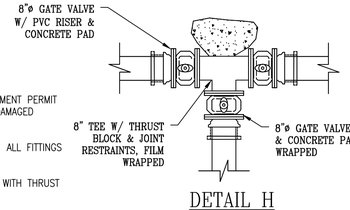

DETAIL H
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DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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5			
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7			

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
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BAKERSFIELD, CA 93308
PHONE 661 393-4796
FAX 661 393-4798
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-1275
FAX 559 783-1975

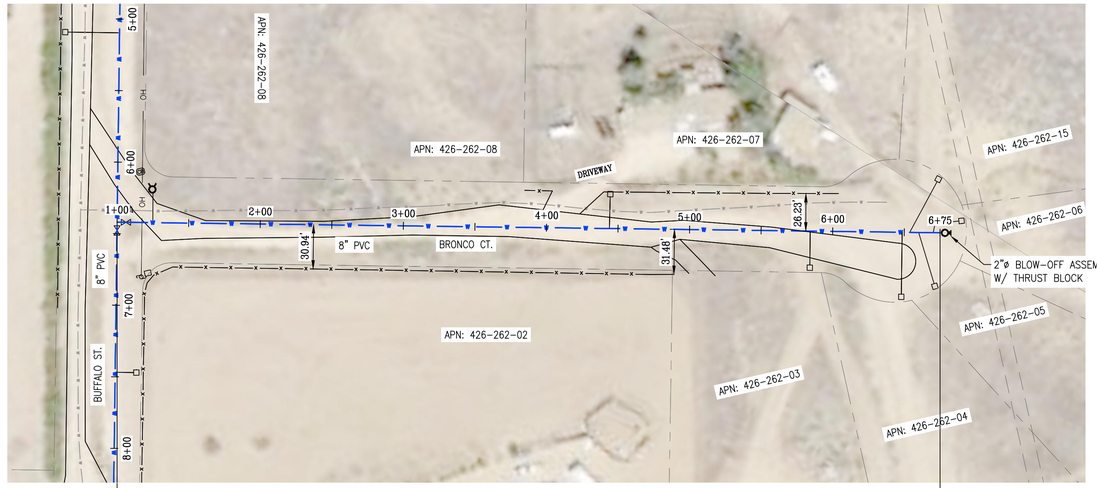
BUFFALO ST. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	33
OF	86 SHEETS

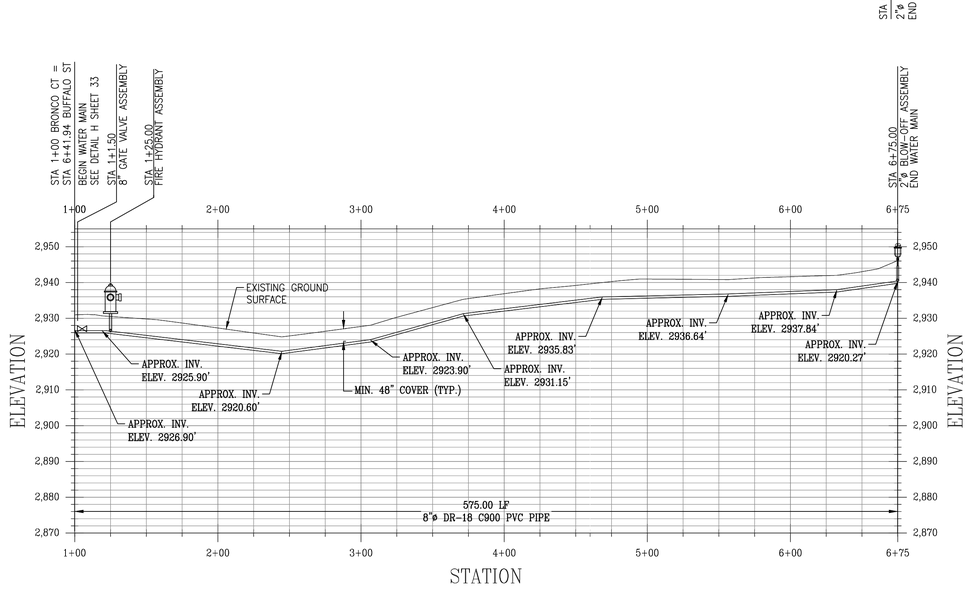
S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\27-34, P&P BELLA VISTA.DWG 8/31/2017 4:53 PM



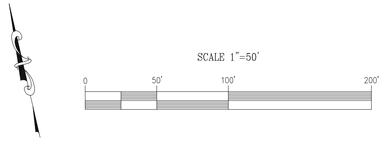
BRONCO CT. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXIST PROPERTY LINES
- EXISTING FENCE LINE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



BRONCO CT. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'



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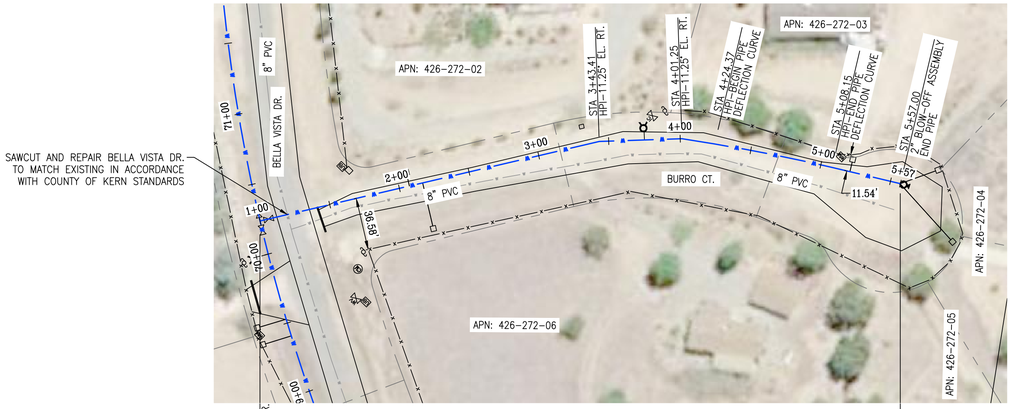
BRONCO CT. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	OMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	34
OF	86 SHEETS

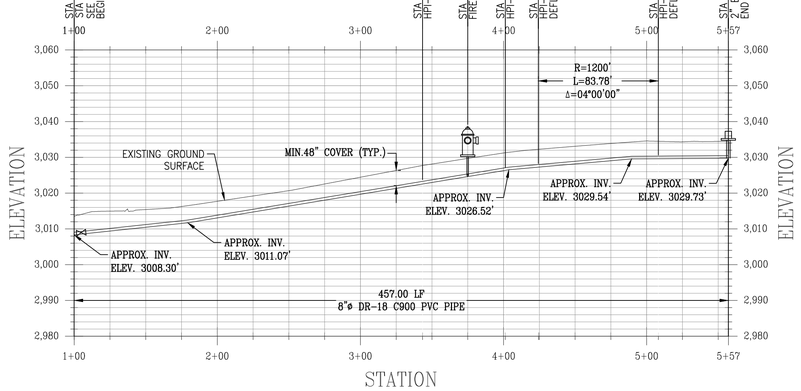


SAWCUT AND REPAIR BELLA VISTA DR. TO MATCH EXISTING IN ACCORDANCE WITH COUNTY OF KERN STANDARDS

STA 1+00 BURRO CT. =
STA 70+20.83 BELLA VISTA DR.
SEE DETAIL "F" SHEET 29
BEGIN WATER MAIN

STA 5+57.00
2" BLOW-OFF ASSEMBLY
END WATER MAIN

BURRO CT. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



BURRO CT. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

LEGEND:

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- EXISTING SIGN
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BURRO CT. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 35
OF 86 SHEETS

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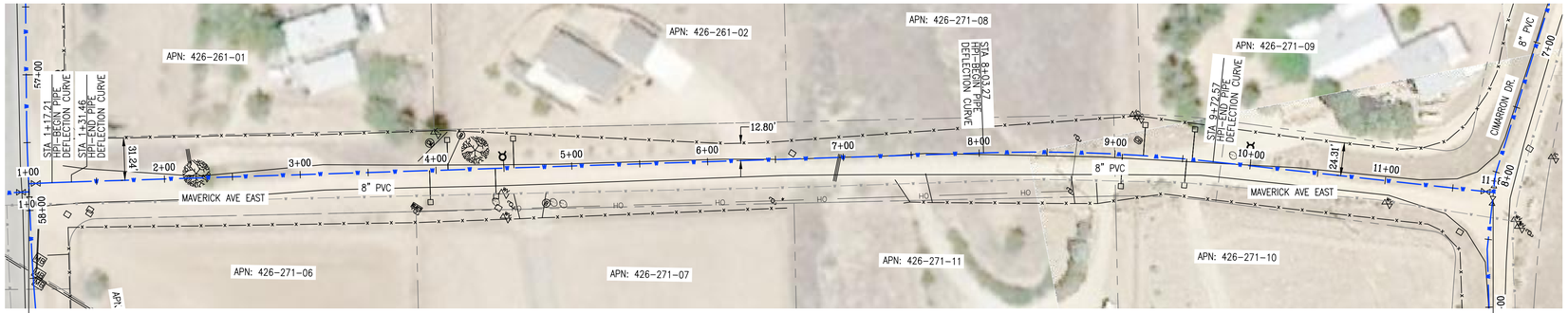
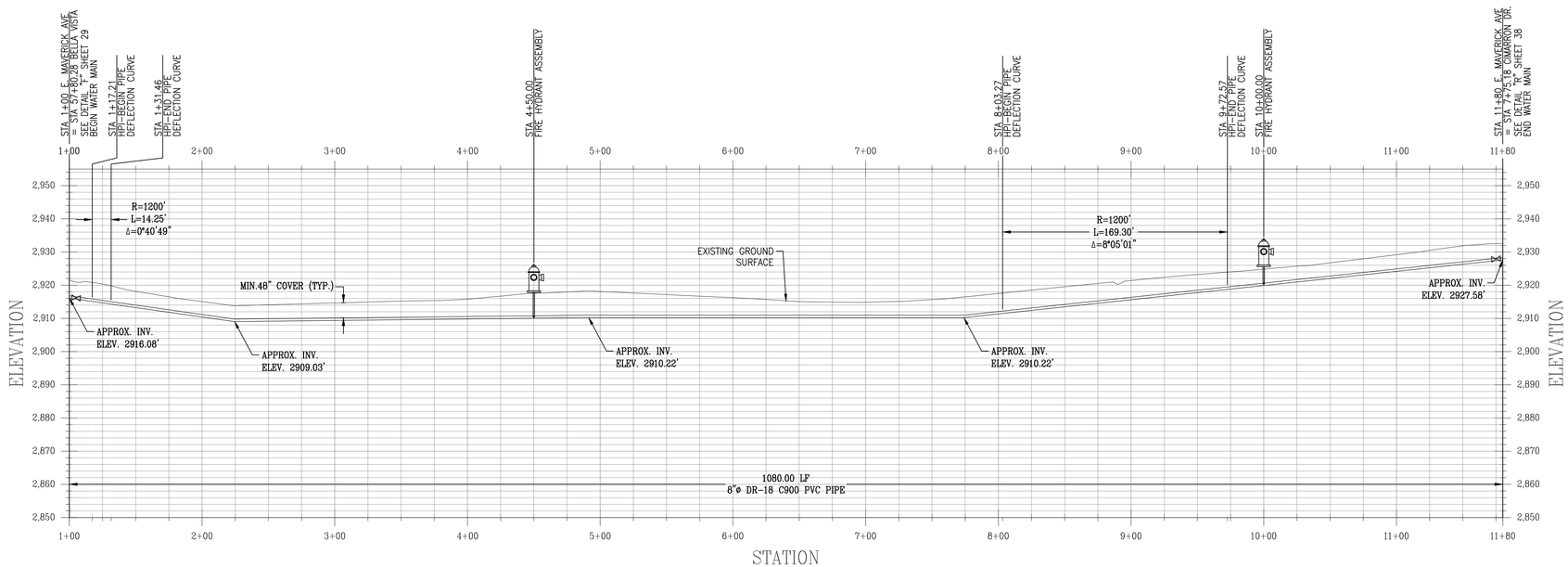


STA 1+00 E. MAVERICK AVE = STA 57+80.28 BELLA VISTA
SEE DETAIL "F" SHEET 29
BEGIN WATER MAIN

STA 11+80 E. MAVERICK AVE = STA 7+75.18 CIMARRON DR.
SEE DETAIL "H" SHEET 38
END WATER MAIN

MAVERICK AVE EAST ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



MAVERICK AVE EAST ALIGNMENT – PROFILE VIEW
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BEFORE YOU DIG

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FAX 661 393-4798
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1975

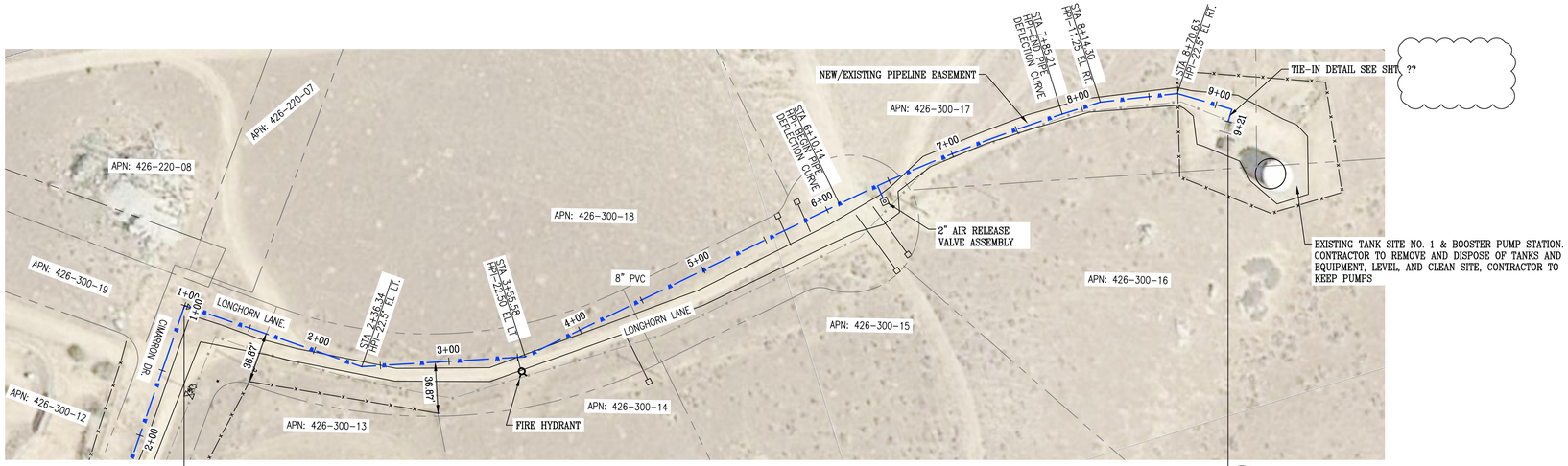
MAVERICK AVE EAST ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	36
OF	86 SHEETS

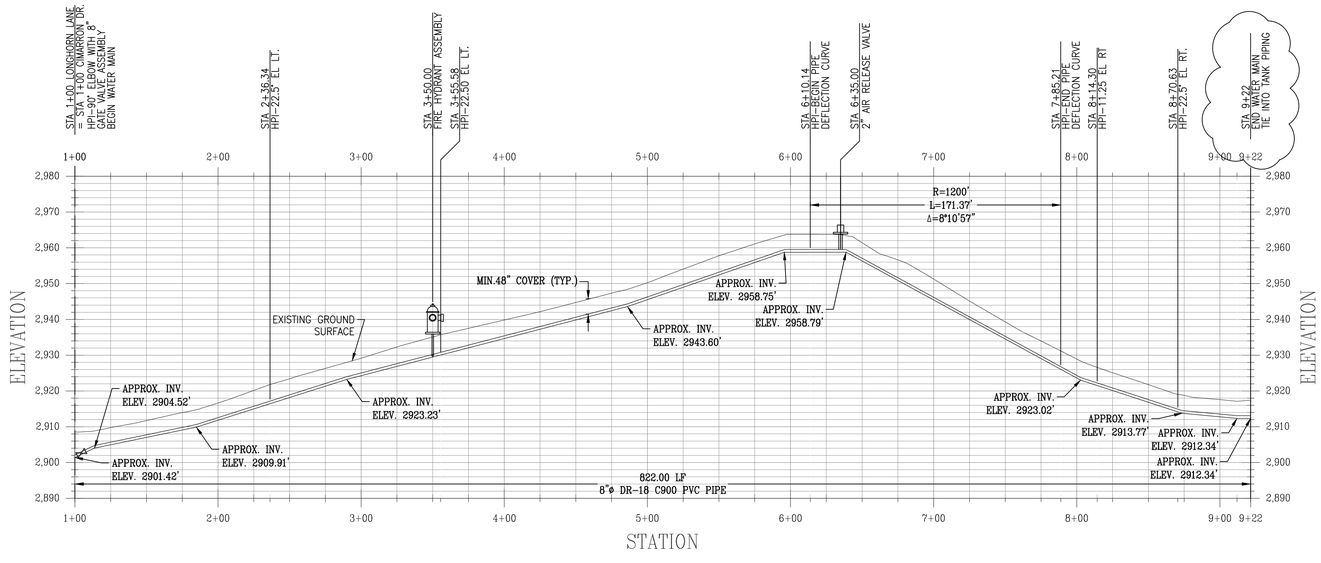
S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\35-46. P&P BELLA VISTA.DWG 8/31/2017 5:10 PM



LONGHORN LANE – PLAN VIEW
SCALE: 1"=50'

STA 1+00 LONGHORN LANE = STA 1+00 CIMARRON DR. HPI-90° ELBOW WITH 8" CAST IRON VALVE ASSEMBLY BEGIN WATER MAIN

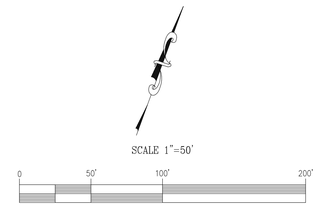
STA 9+22 END WATER MAIN TIE INTO TANK PIPING



LONGHORN LANE ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



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FAX 559 783-1975

LONGHORN LANE – PLAN AND PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	37
OF	86 SHEETS

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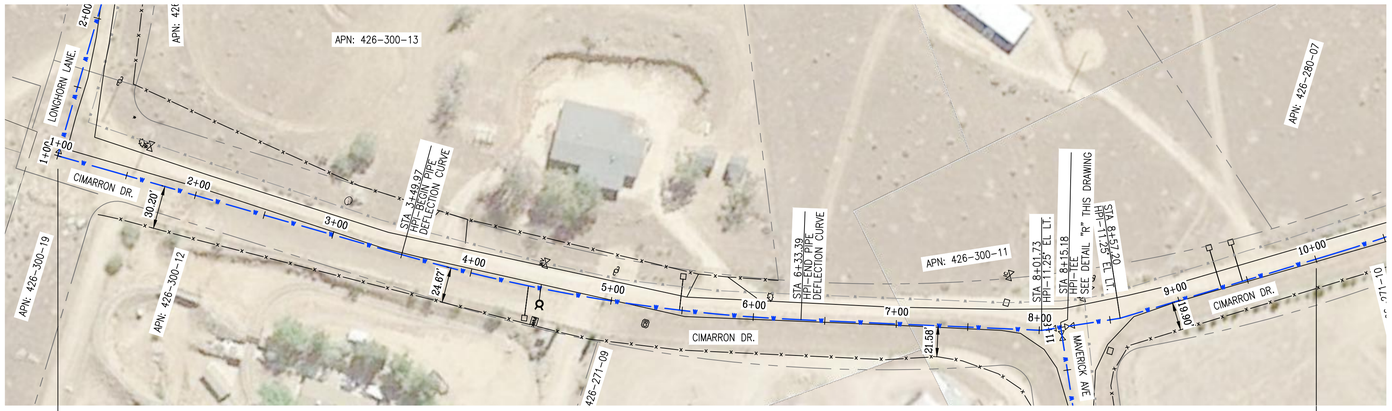
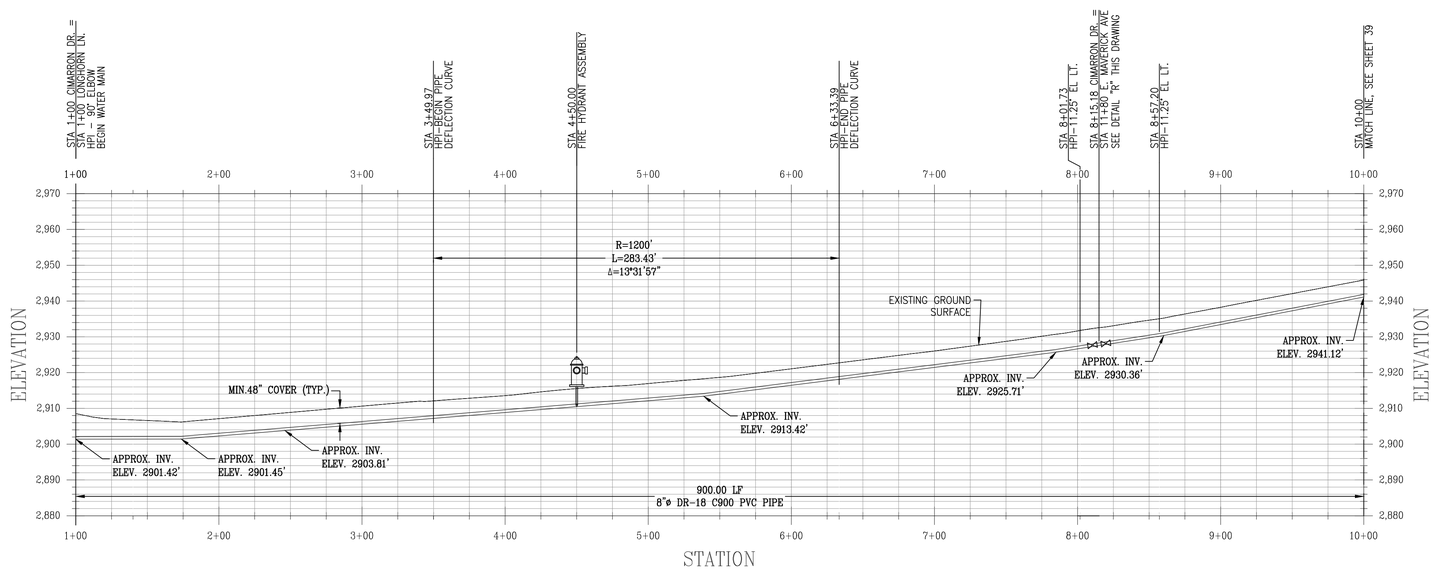


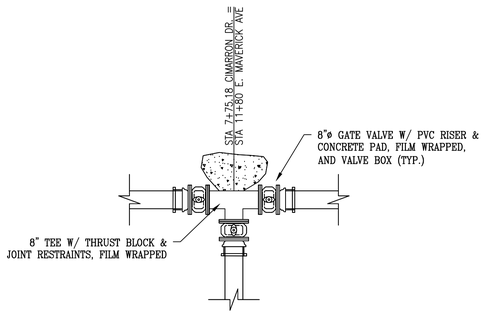
STA 1+00 CIMARRON DR. = STA 1+00 LONGHORN LN. HPI - 90° ELBOW BEGIN WATER MAIN

STA 10+00 MATCH LINE, SEE SHEET 39

CIMARRON DR. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



CIMARRON DR. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'



DETAIL R
SCALE: 1" = 4'

LEGEND:

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- EXISTING WATER MAIN
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- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
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SCALE 1"=50'

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CIMARRON DRIVE ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	38
OF	86 SHEETS

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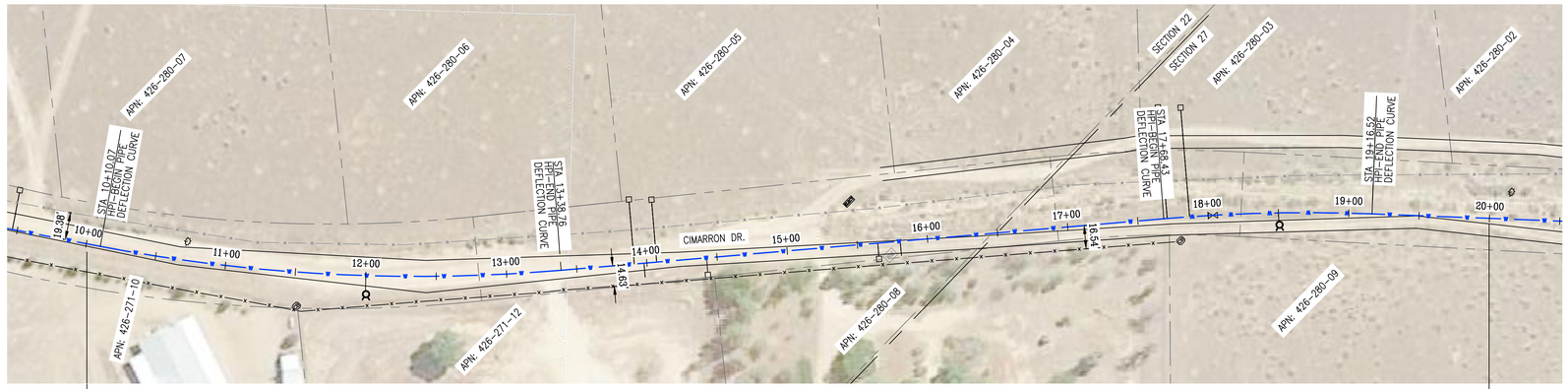
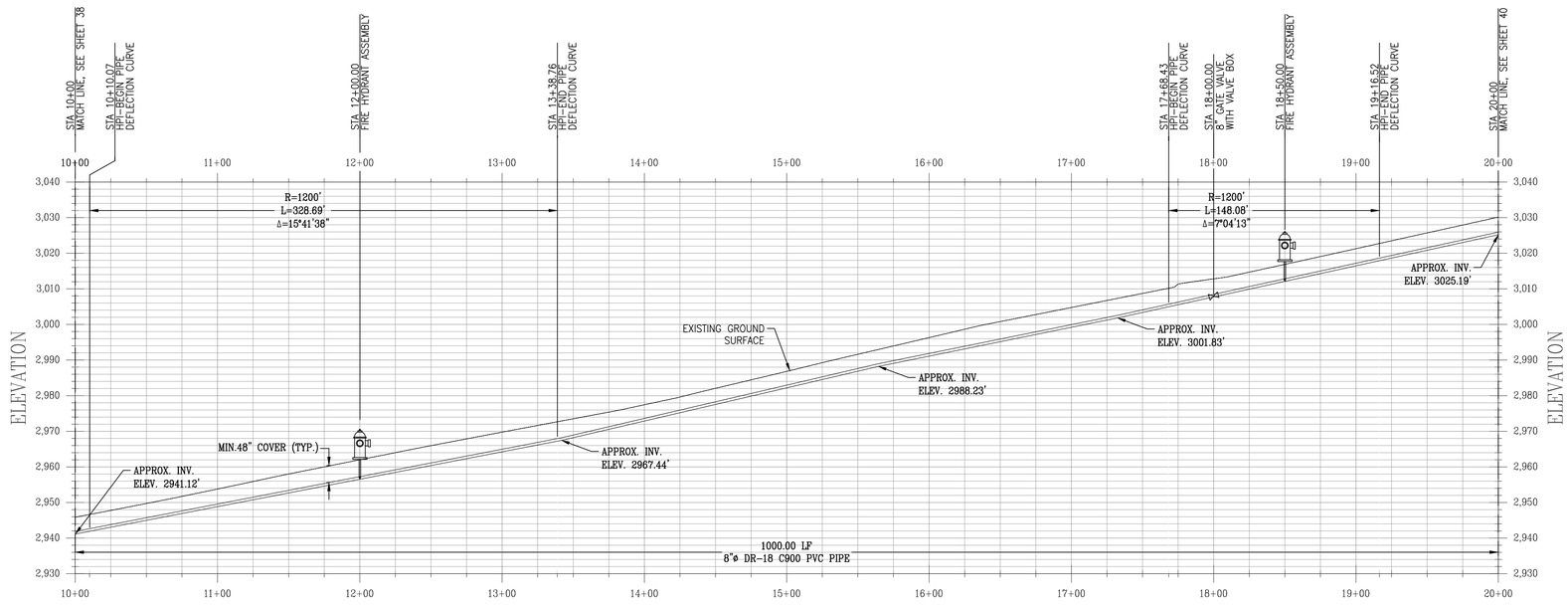


STA 10+00
MATCH LINE, SEE SHEET 38

STA 20+00
MATCH LINE, SEE SHEET 40

CIMARRON DR. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



CIMARRON DR. ALIGNMENT – PROFILE VIEW
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LEGEND:

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DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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FAX 661 393-4798
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-2288
FAX 559 783-1975

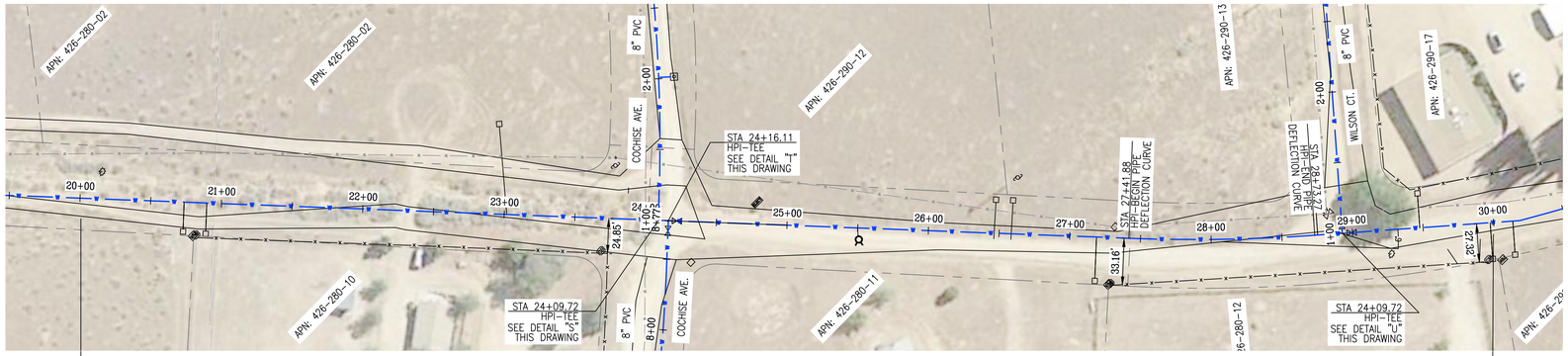
CIMARRON DRIVE ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

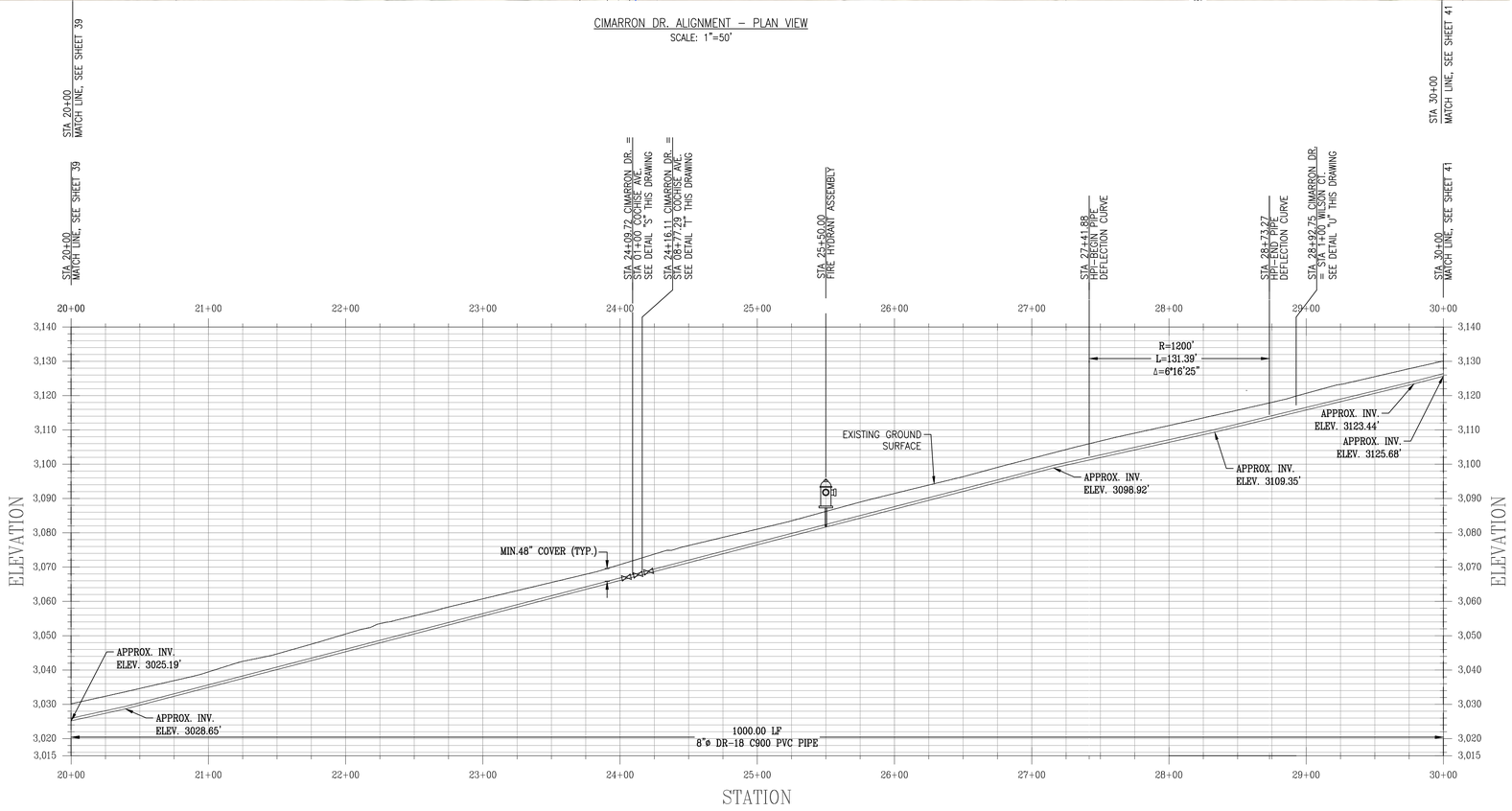
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 39
OF 86 SHEETS

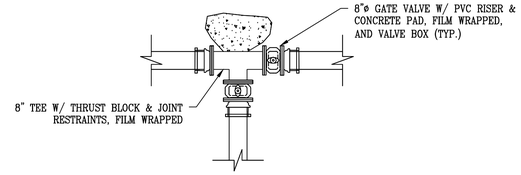
S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\35-46. P&P BELLA VISTA.DWG 8/31/2017 5:10 PM



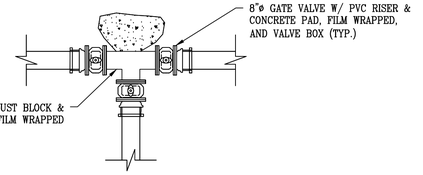
CIMARRON DR. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



CIMARRON DR. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'



DETAIL S
SCALE: 1" = 4'



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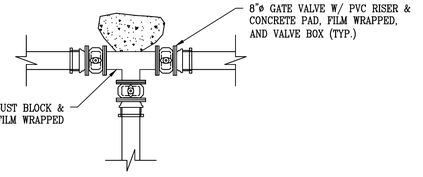

DETAIL U
SCALE: 1" = 4'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
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SCALE 1"=50'
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CIMARRON DR. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 40
OF 86 SHEETS

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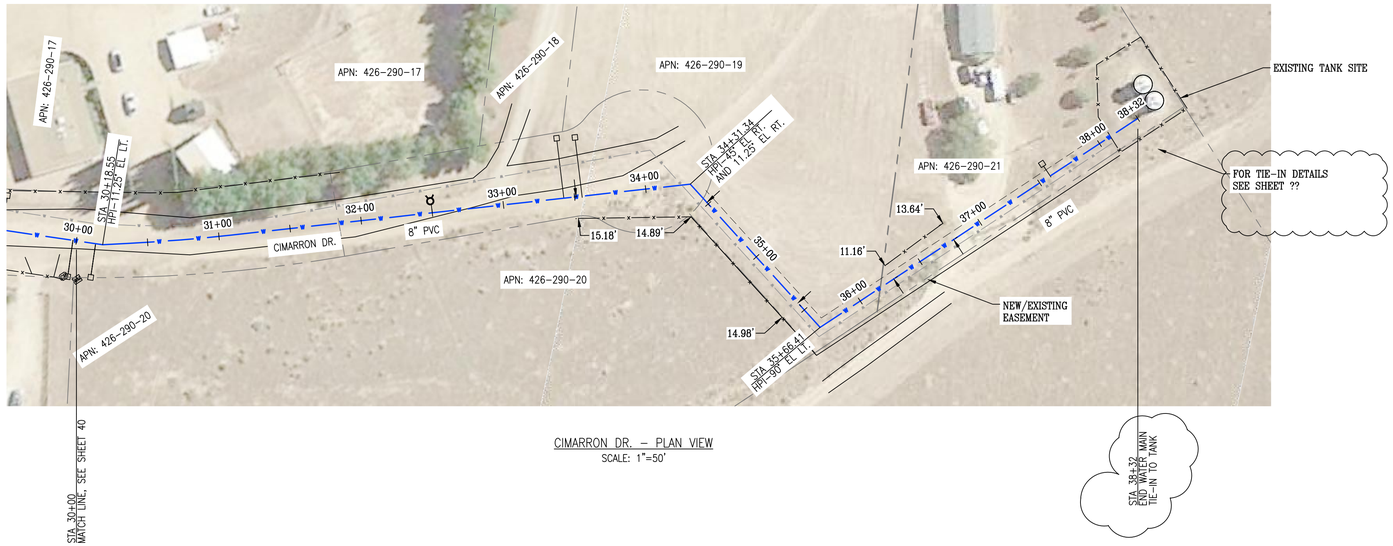
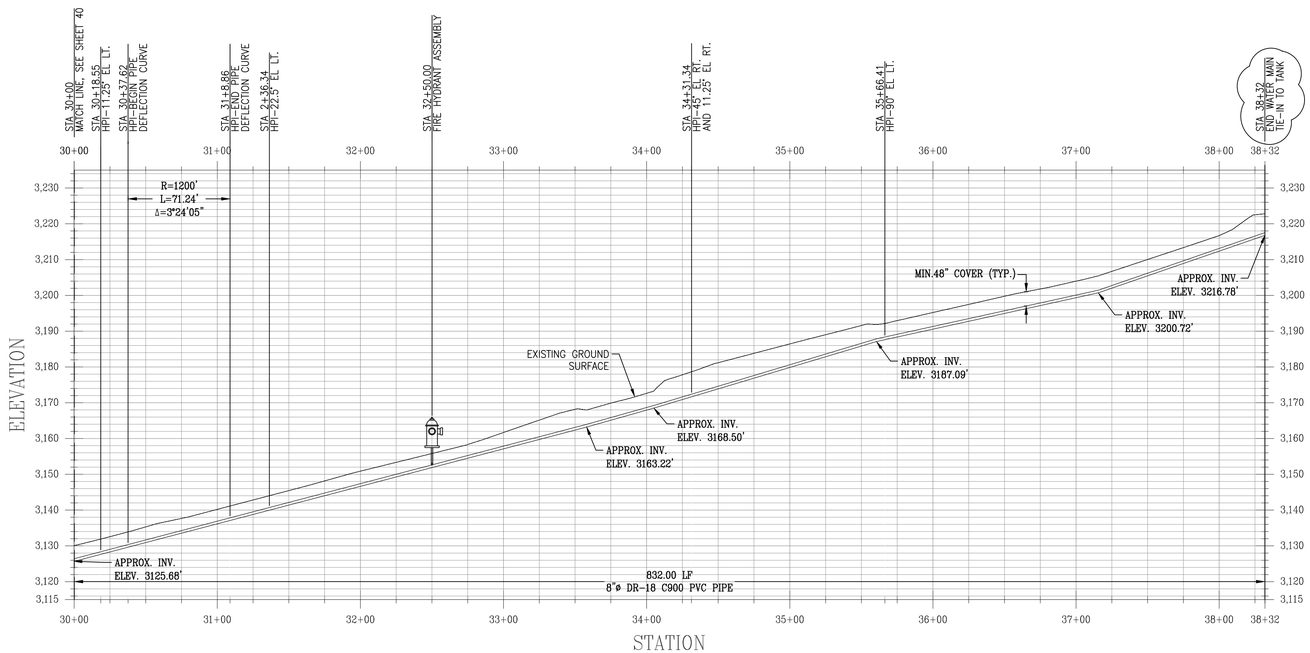


CIMARRON DR. – PLAN VIEW
SCALE: 1"=50'



CIMARRON DR. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

LEGEND:

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- EXISTING WATER MAIN
- OH — EXISTING OVERHEAD POWER LINES
- UTIL — EXISTING UTILITY LINES
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- EXISTING FENCE
- EXISTING SIGN
- MB EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- WM EXISTING WATER METER
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CIMARRON DRIVE – PLAN AND PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 41
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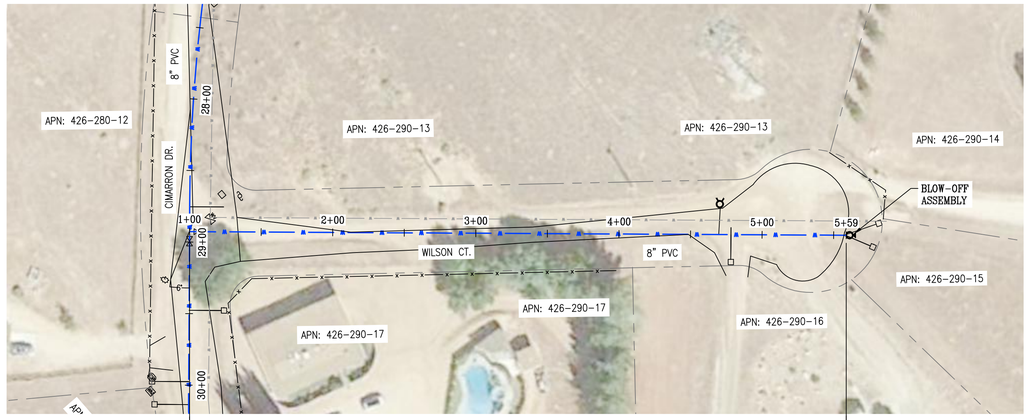
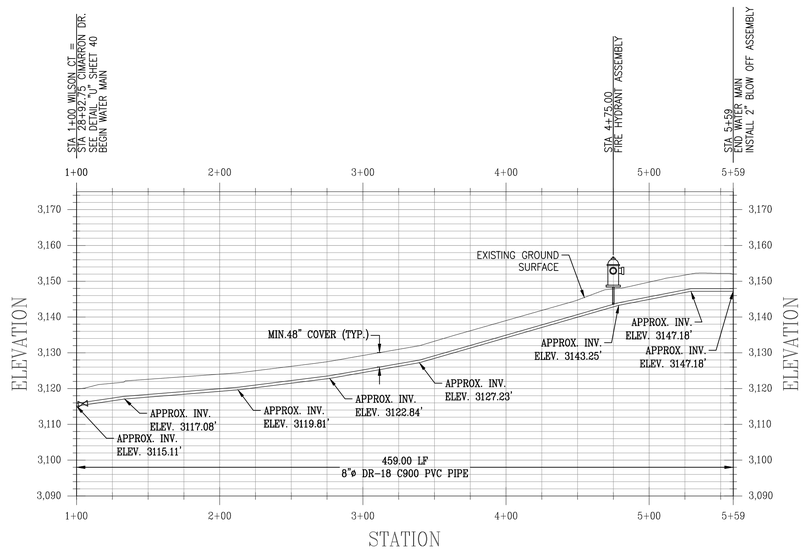
S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\35-46. P&P BELLA VISTA.DWG 8/31/2017 5:10 PM



WILSON CT. – PLAN VIEW
SCALE: 1"=50'



WILSON CT. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
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- PUBLIC RIGHT OF WAY
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WILSON COURT – PLAN AND PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
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OF 86 SHEETS

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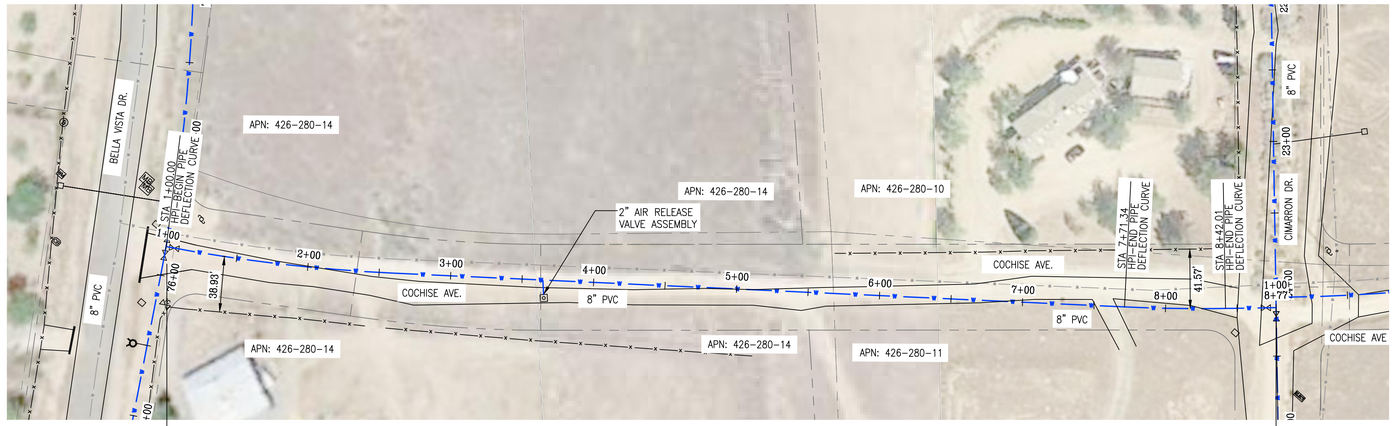
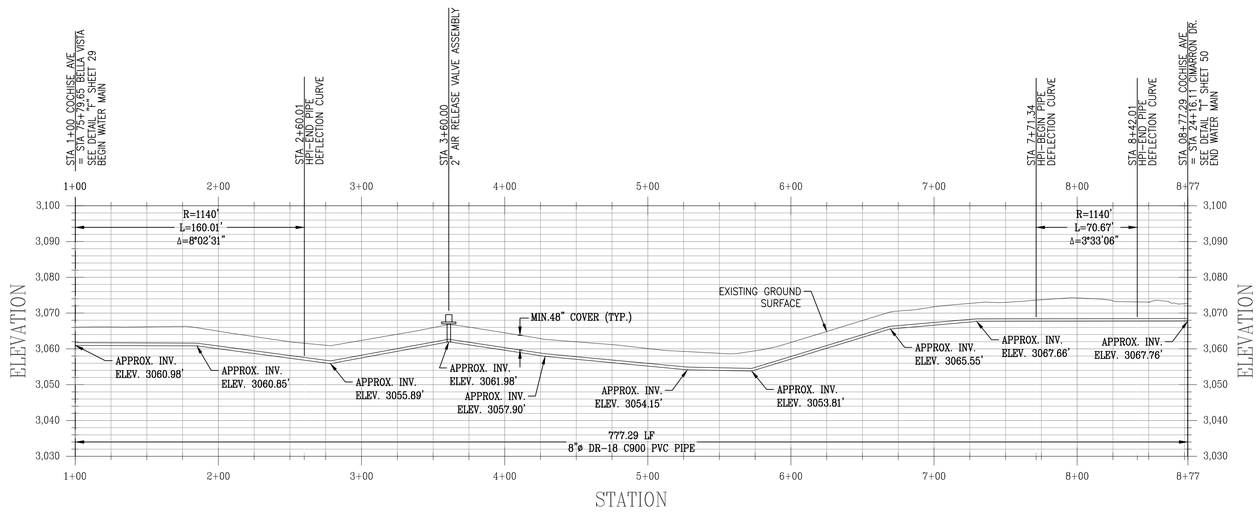


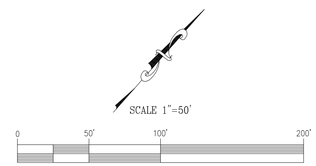
COCHISE AVE. – PLAN VIEW
SCALE: 1"=50'



COCHISE AVE. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



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GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL POTHOLE AND LOCATE ALL SEWER LATERALS, WATER, GAS SERVICES, AND UTILITIES ALONG PIPELINE ALIGNMENT PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL USE CONTROLLED LONGITUDINAL BENDING WHEN POSSIBLE TO ACCOMPLISH SMALL CHANGES IN DIRECTION OF THE MAIN LINE ALIGNMENT. THE MAXIMUM ALLOWABLE BENDING FOR THE PVC PIPE SHALL BE IN ACCORDANCE WITH TABLE 8.2 OF THE UNI-BELL HANDBOOK OF PVC PIPE SHOWN ON SHEET 16.
3. LINEAR LOW DENSITY POLYETHYLENE ENCASEMENT TO BE INSTALLED AROUND ALL BURIED METAL FITTINGS AND PIPE, INCLUDING: VALVES, STEEL FLANGES, FITTINGS, JOINT RESTRAINTS, BOLTS, ETC., IN ACCORDANCE WITH AWWA C105 STANDARDS. POLYETHYLENE ENCASEMENT SHALL BE COLORED.
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5. CONTRACTOR SHALL PERFORM ALL WORK IN COUNTY RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF THE ENCROACHMENT PERMIT AND THE REQUIREMENTS OF THE COUNTY INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY PAVEMENT DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE COUNTY AND THE ENGINEER.
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9. TRENCH DEPTH AND SHORING APPLICATIONS SHALL COMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION IN STANDARDS – 29 CFR, PART 1926, SUBPART P.
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11. SERVICES NOT SHOWN ON PROFILE VIEW FOR CLARITY. ONE-INCH DIAMETER SERVICES SHALL BE INSTALLED WITH ⅝" X ¾" METERS WITH REMOTE READ TRANSMITTER AND METER BOX. METERED SERVICE LOCATION SHALL BE COORDINATED IN FIELD WITH THE ENGINEER AND OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EACH METERED SERVICE UP TO THE FLOW METER AT THE PROPERTY LINE.

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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TWO WORKING DAYS
BEFORE YOU DIG

REV.	DATE	DESCRIPTION	BY
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2			
3			
4			
5			
6			
7			

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2220 UNICORN ROAD BLDG A
BAKERSFIELD, CA 93308
PHONE 661 393-4796
FAX 661 393-1909
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1975

COCHISE AVENUE – PLAN AND PROFILE
WELDON REGIONAL WATER SYSTEM
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	43
OF	86 SHEETS

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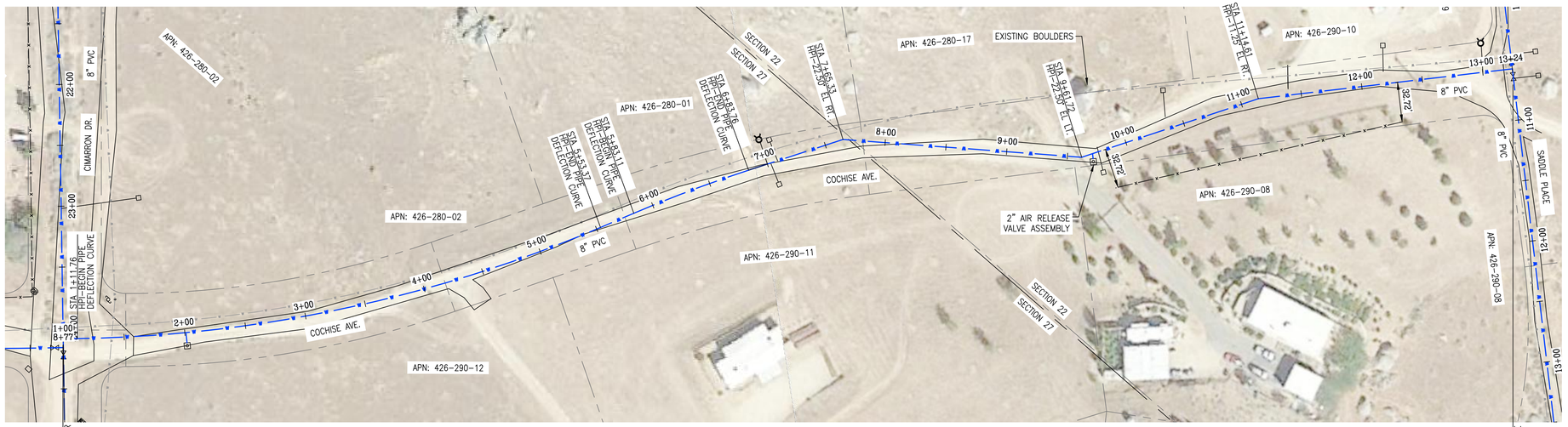
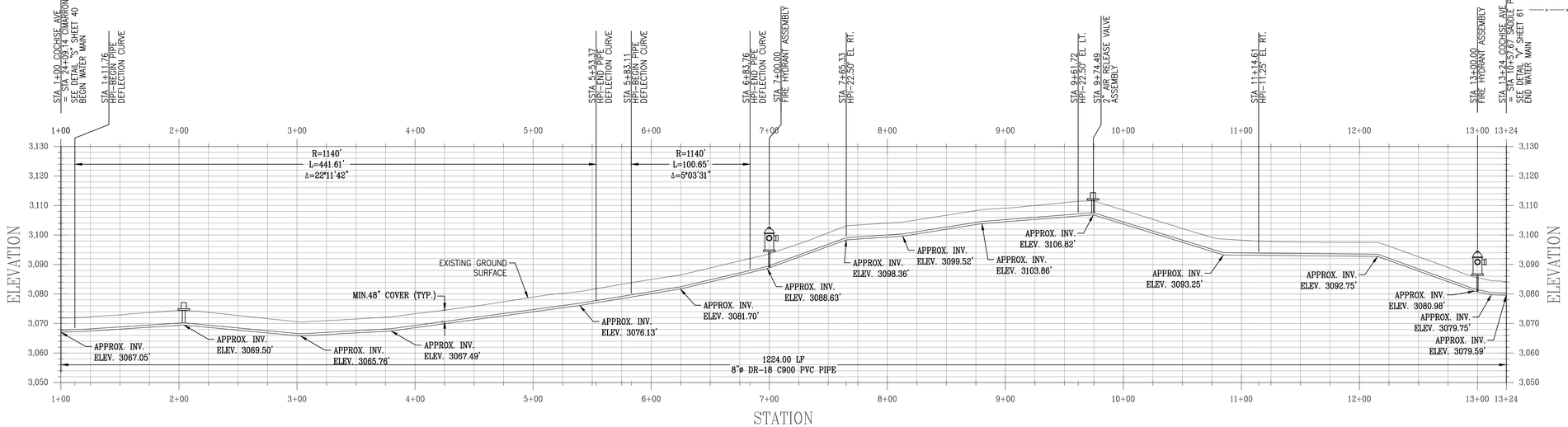


COCHISE AVE. – PLAN VIEW
SCALE: 1"=50'

STA 1+00 COCHISE AVE = STA 24+09.14 CIMARRON DR SEE DETAIL "S" SHEET 40 BEGIN WATER MAIN

STA 13+24 COCHISE AVE = STA 10+57.67 SADDLE PLACE SEE DETAIL "V" SHEET 61 END WATER MAIN



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COCHISE AVENUE – PLAN AND PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 44
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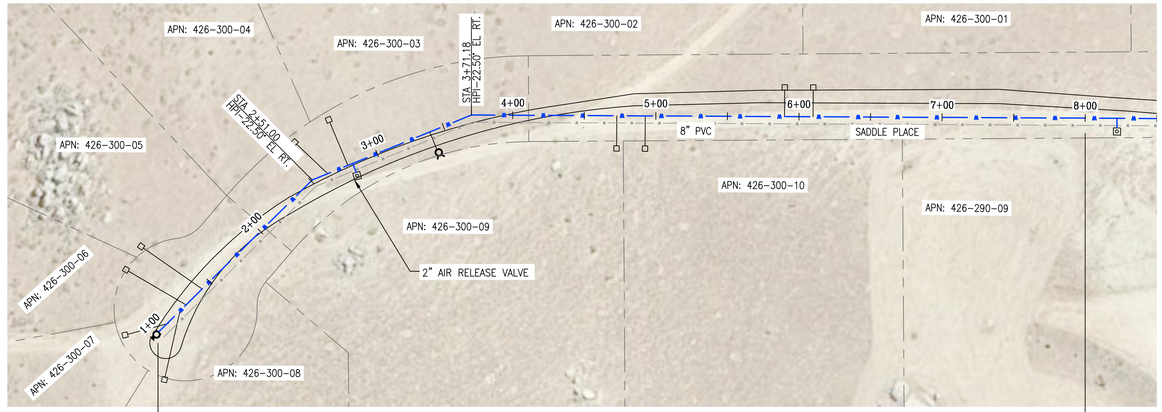
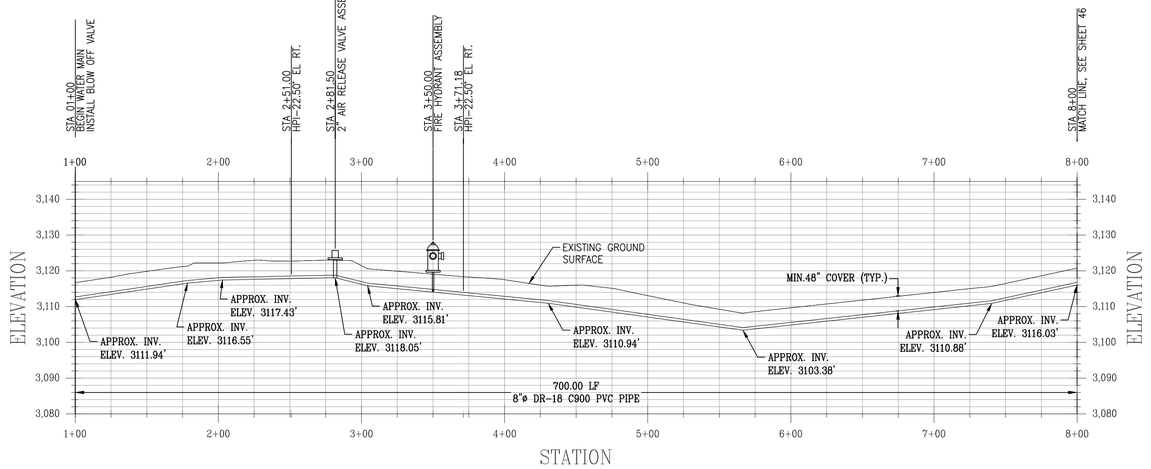


SADDLE PLACE – PLAN VIEW
SCALE: 1"=50'



SADDLE PLACE ALIGNMENT – PROFILE VIEW
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SADDLE PLACE – PLAN AND PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

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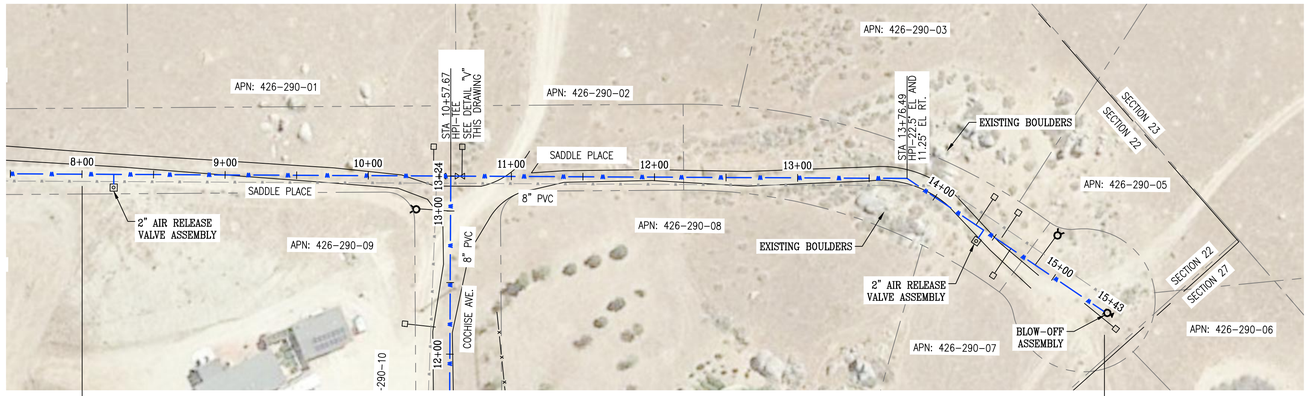

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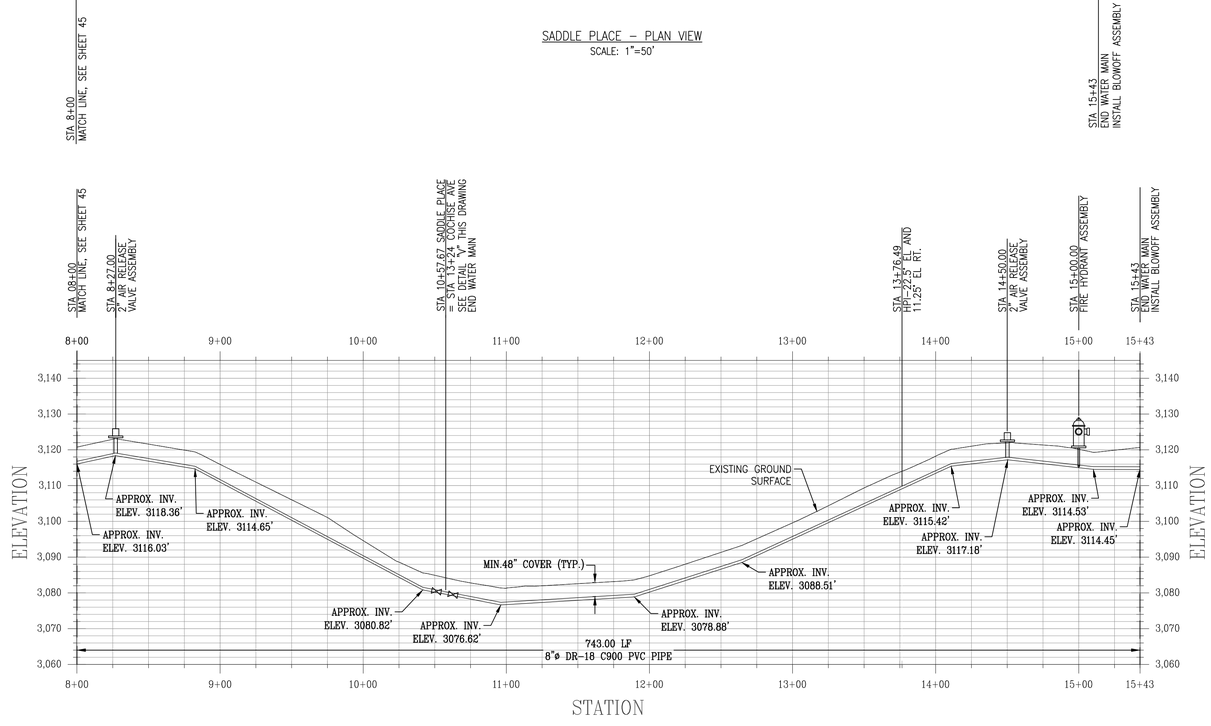
SCALE: 1"=50'



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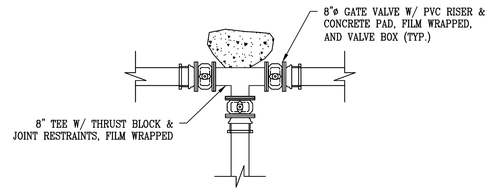

DETAIL V
SCALE: 1" = 4'

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DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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CIVIL ENGINEERS
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BAKERSFIELD, CA 93309 PHONE 661 393-4799
15 W PUTNAM AVENUE, 2ND FLOOR PHONE 559 791-2288
PORTERVILLE, CALIFORNIA 93257 FAX 559 783-1975

SADDLE PLACE – PLAN AND PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 46
OF 86 SHEETS

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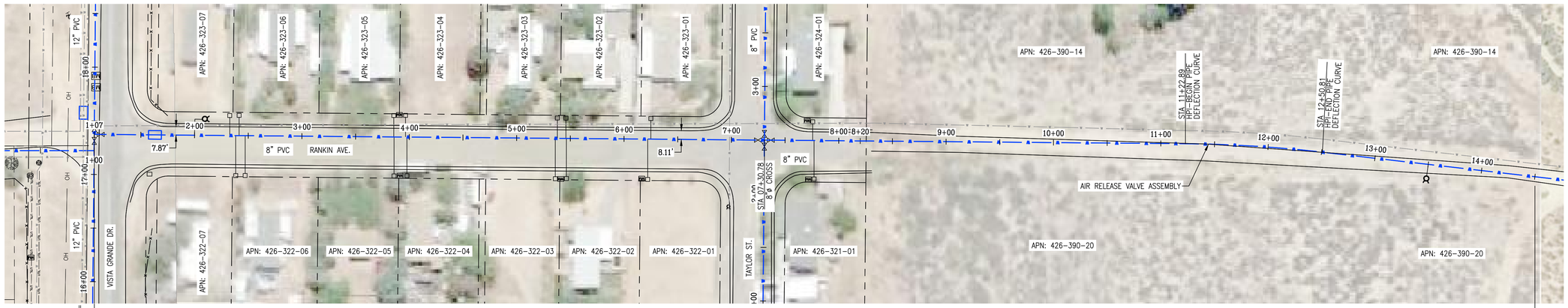
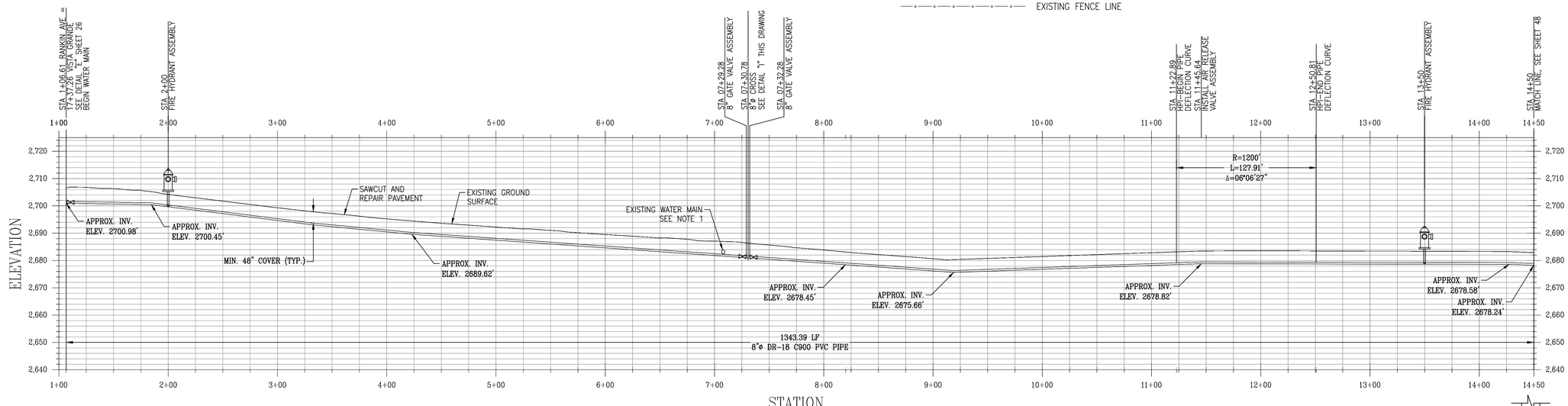


RANKIN AVE. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

SCALE 1"=50'
0 50' 100' 200'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXIST PROPERTY LINES
- EXISTING FENCE LINE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



RANKIN AVE. ALIGNMENT – PROFILE VIEW
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VERTICAL SCALE: 1"=20'

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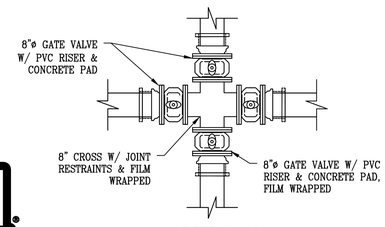

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RANKIN AVE. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	47
OF	86 SHEETS

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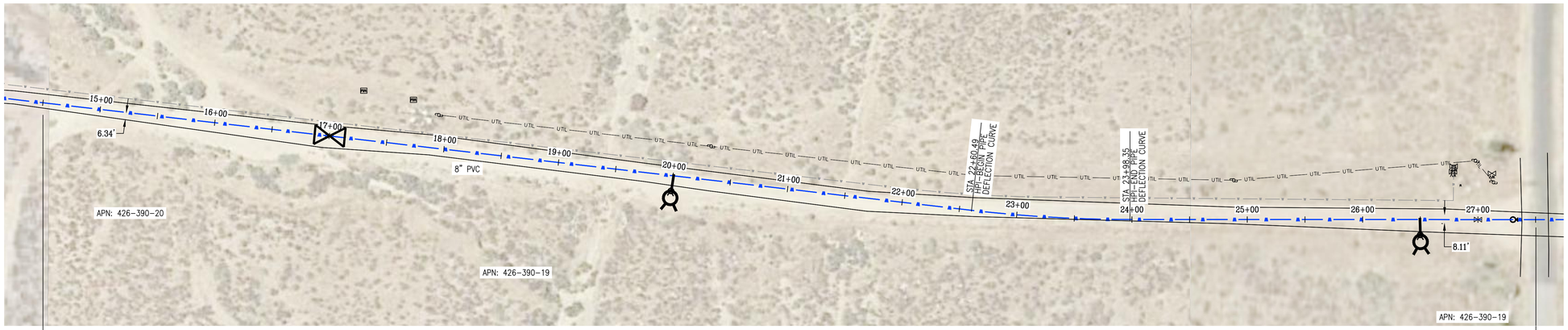

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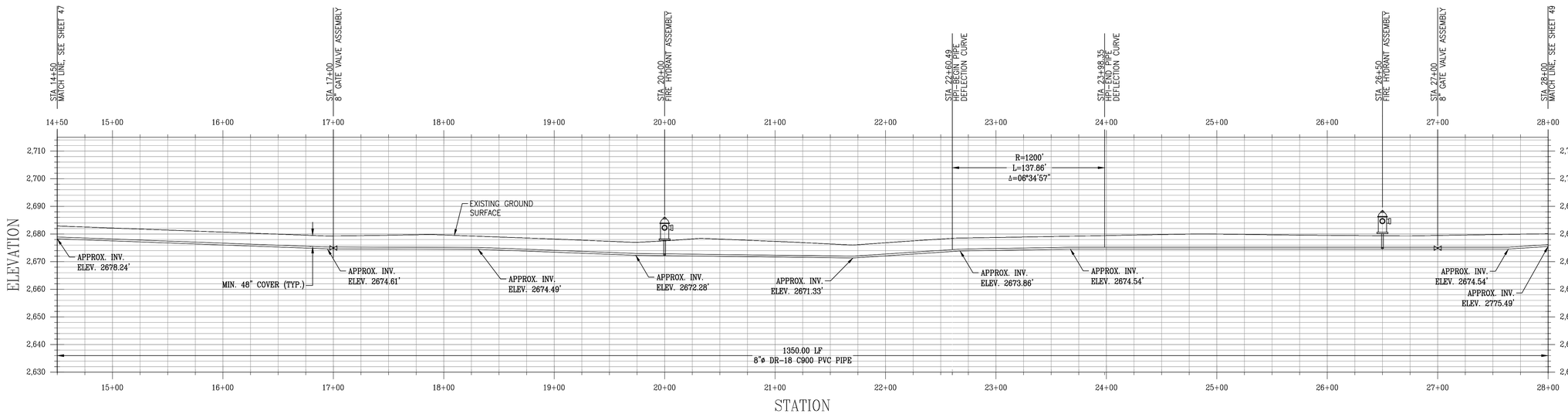

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WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

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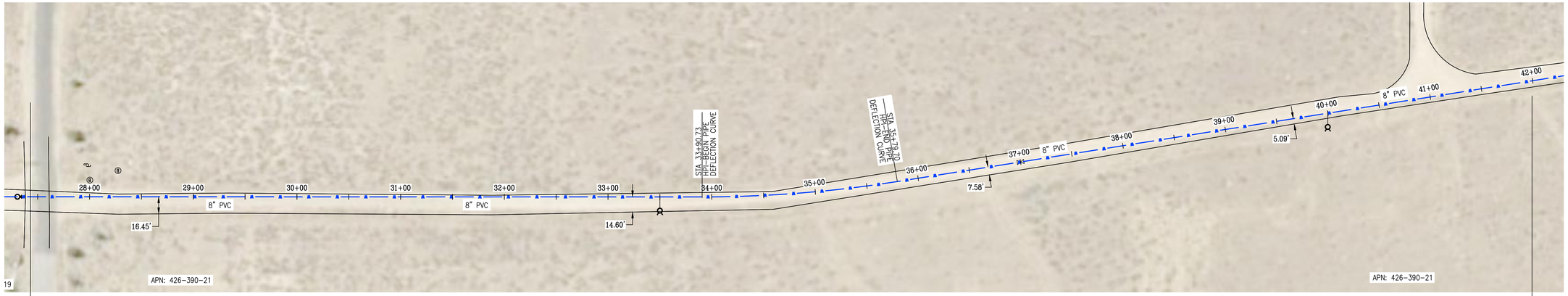

RANKIN AVE. ALIGNMENT – PLAN VIEW
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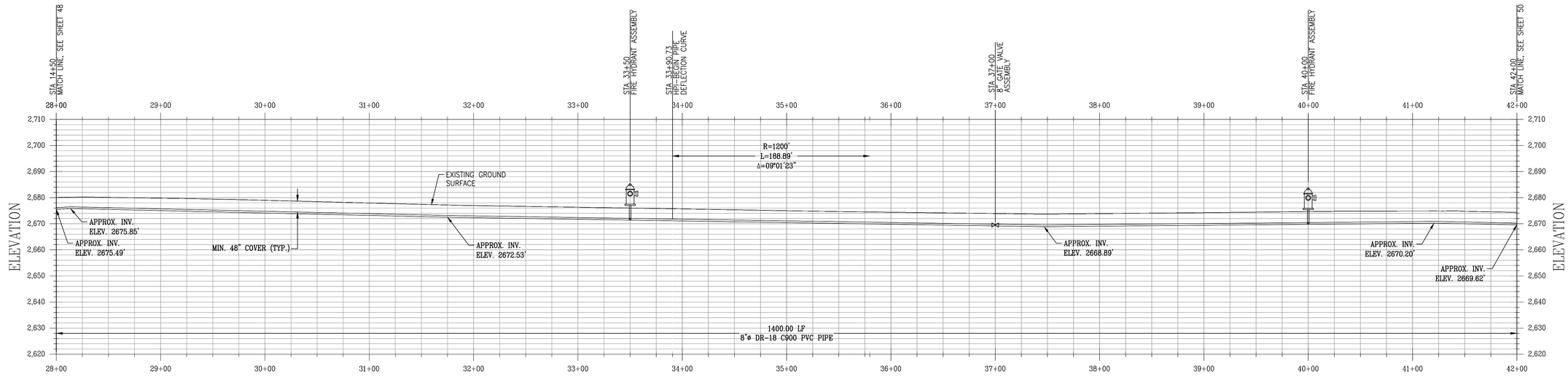

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9. TRENCH DEPTH AND SHORING APPLICATIONS SHALL COMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION IN STANDARDS – 29 CFR, PART 1926, SUBPART P.
10. SAWCUT AND REPAIR AC DRIVE APPROACHES TO MATCH EXISTING. CONTRACTOR TO MAINTAIN FACILITY INGRESS AND EGRESS DURING CONSTRUCTION.
11. SERVICES NOT SHOWN ON PROFILE VIEW FOR CLARITY. ONE-INCH DIAMETER SERVICES SHALL BE INSTALLED WITH ⅜" X ¾" METERS WITH REMOTE READ TRANSMITTER AND METER BOX. METERED SERVICE LOCATION SHALL BE COORDINATED IN FIELD WITH THE ENGINEER AND OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EACH METERED SERVICE UP TO THE FLOW METER AT THE PROPERTY LINE.

SCALE 1"=50'
0 50' 100' 200'

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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TWO WORKING DAYS
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DEE JASPAR & ASSOCIATES, INC.
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2700 UNICORN ROAD, BLDG A
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FAX 661 393-4799
15 W. PUTNAM AVENUE, 2ND FLOOR
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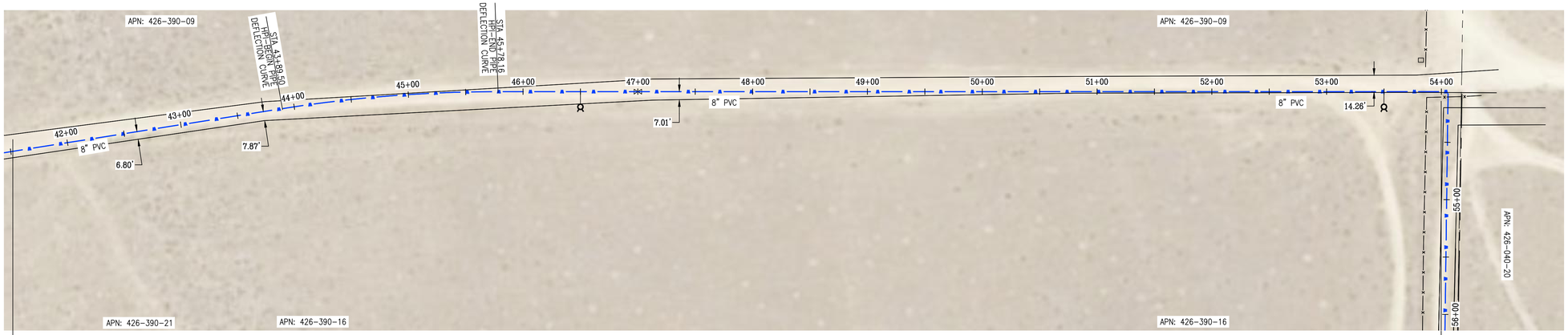
PHONE 559 781-9288
FAX 559 781-1975

RANKIN AVE. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	49
OF	86 SHEETS



RANKIN AVE. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 12" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
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- EXIST PROPERTY LINES
- EXISTING FENCE LINE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
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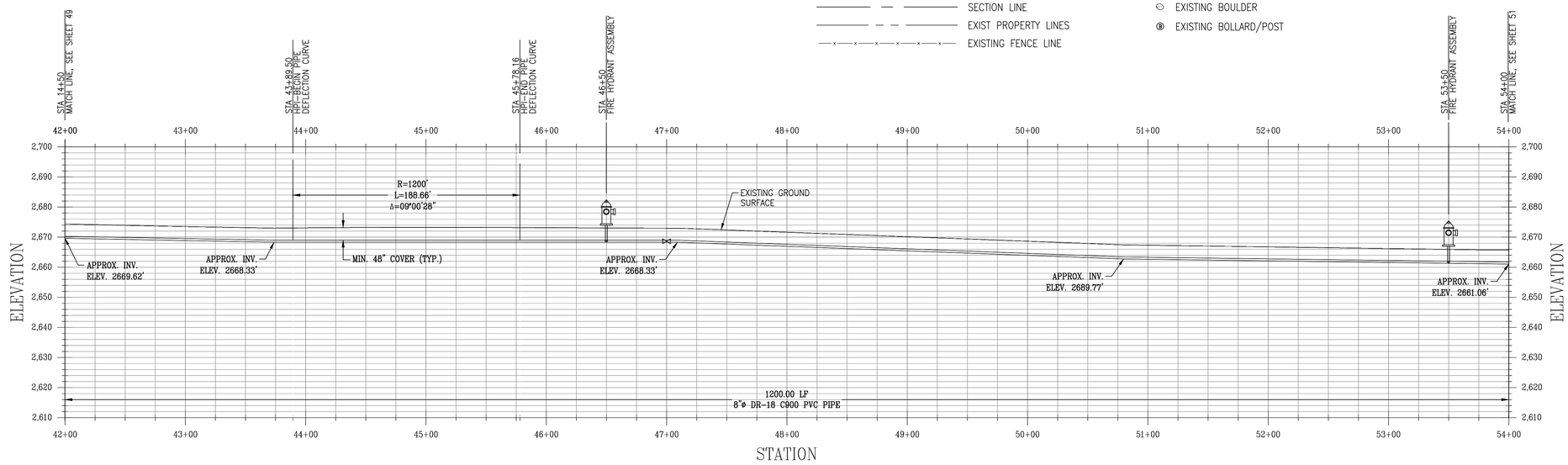

RANKIN AVE. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

NOTES:
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RANKIN AVE. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 50
OF 86 SHEETS

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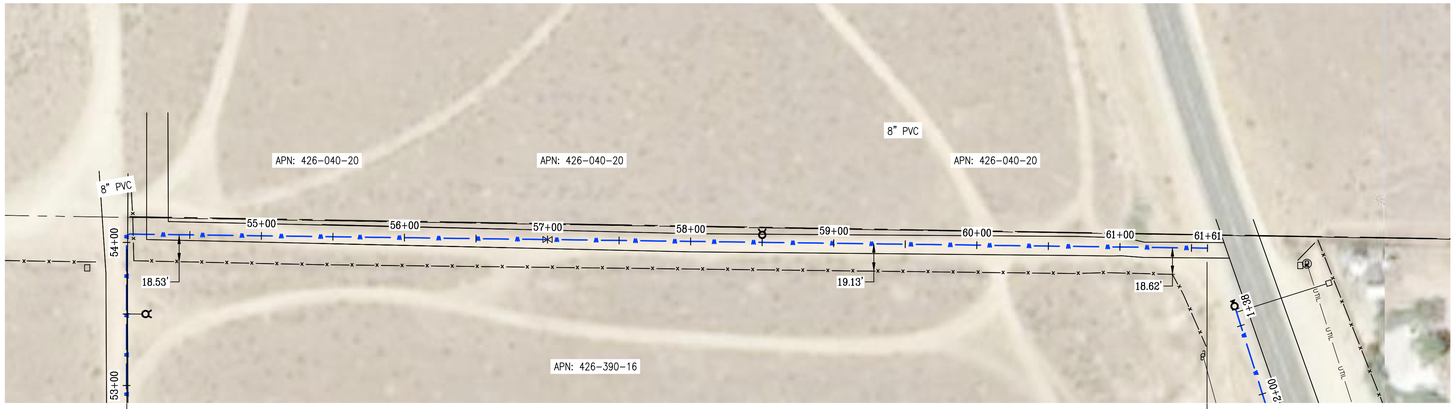

RANKIN AVE. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

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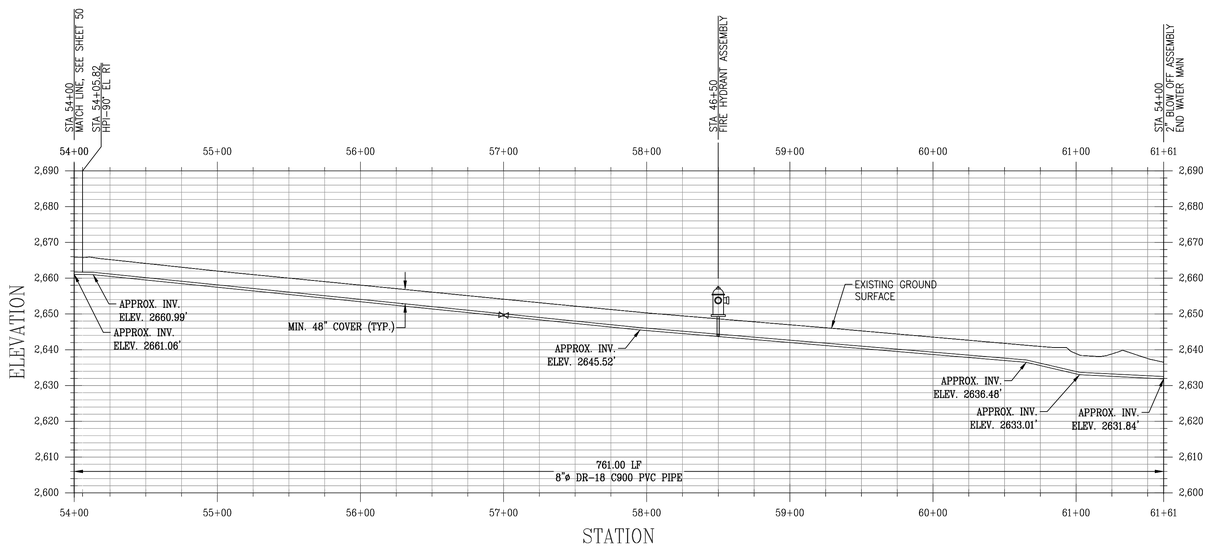

RANKIN AVE. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

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RANKIN AVE. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 51
OF 86 SHEETS

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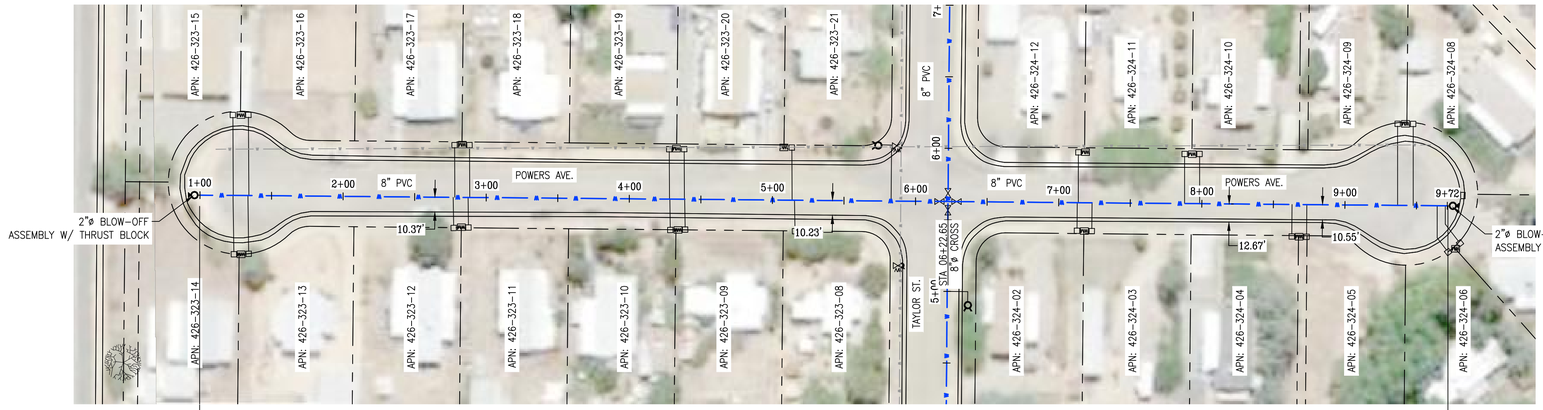

SCALE 1"=50'

0 50' 100' 200'

POWERS AVE. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

LEGEND:

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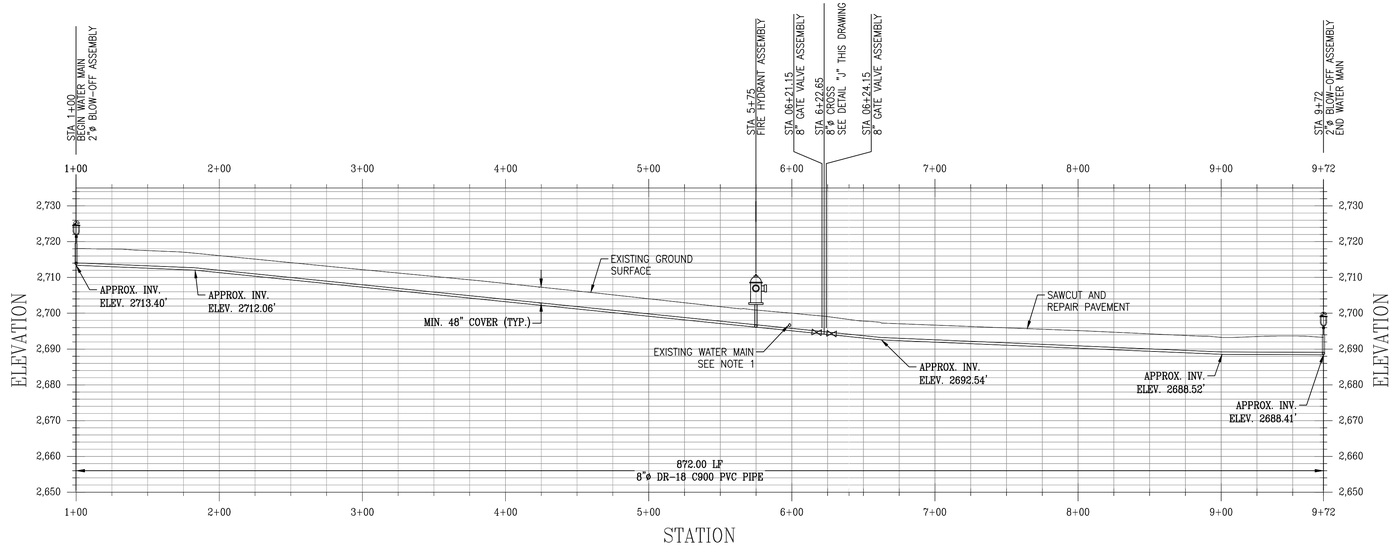

POWERS AVE. ALIGNMENT – PROFILE
VIEW
HORIZONTAL SCALE: 1"=50'
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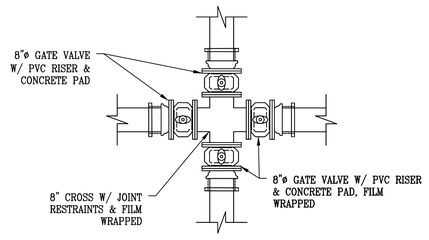

DETAIL J
NTS

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WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

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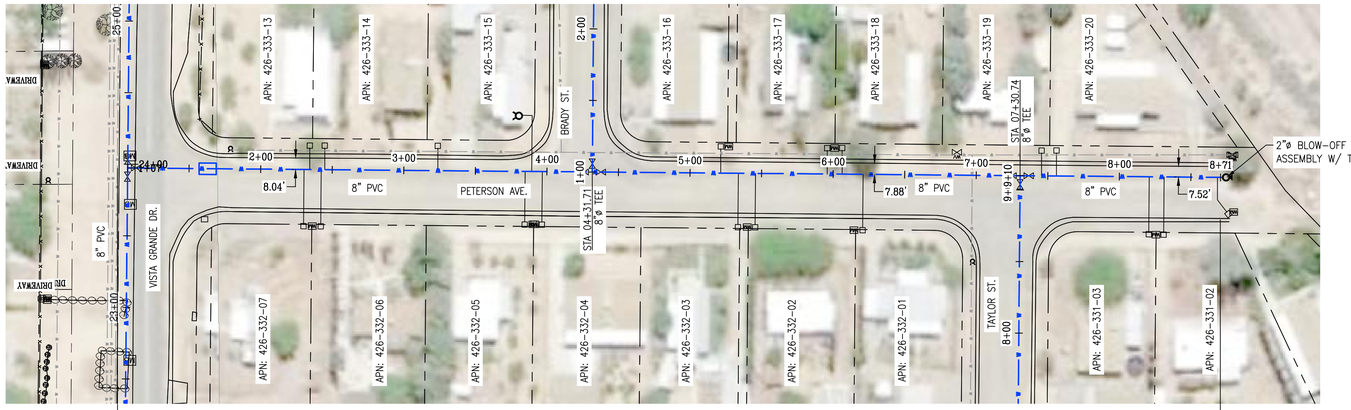
SHEET	32
OF	86 SHEETS



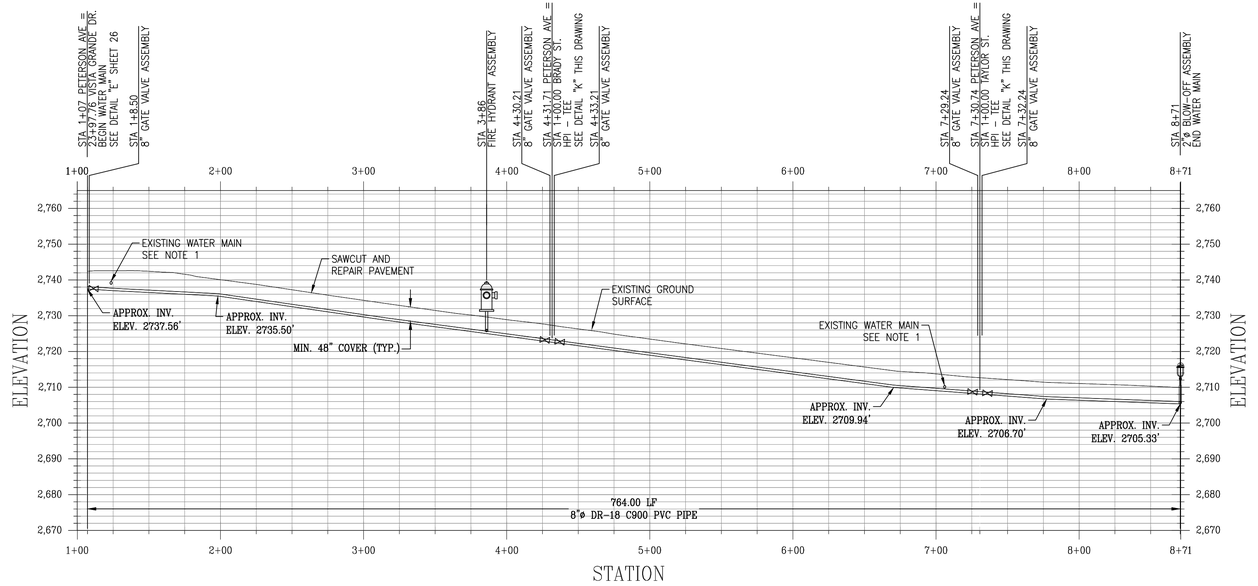
SCALE 1"=50'

0 50' 100' 200'

STA 1+07 PETERSON AVE = 23+97.76 VISTA GRANDE DR. BEGIN WATER MAIN SEE DETAIL "E" SHEET 26

STA 8+71 END WATER MAIN

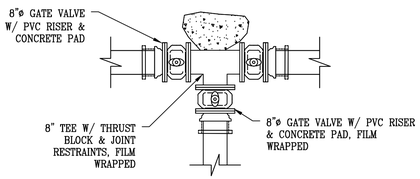
PETERSON AVE. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



PETERSON AVE. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXIST PROPERTY LINES
- EXISTING FENCE LINE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



DETAIL K
NTS

NOTES:

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1-800-642-2444
TWO WORKING DAYS
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REV.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2220 JUDSON ROAD, BLDG A
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FAX 661 393-4798
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1975

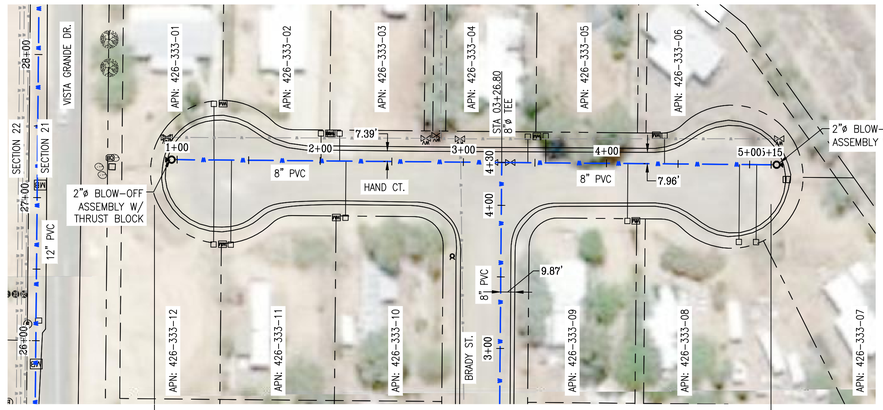
PETERSON AVE. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

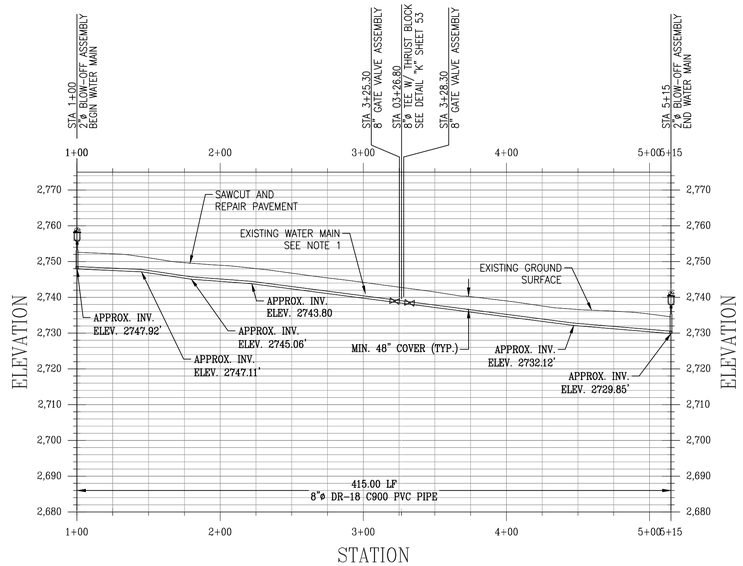
DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	53
OF	86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\47-56. P&P LONG CANYON.DWG 8/25/2017 8:58 AM



HAND CT. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

SCALE 1"=50'
0 50' 100' 200'



HAND CT. ALIGNMENT – PROFILE VIEW
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VERTICAL SCALE: 1"=20'

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REV.	DATE	DESCRIPTION	BY
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FAX 559 783-1975

HAND CT. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 54
OF 86 SHEETS

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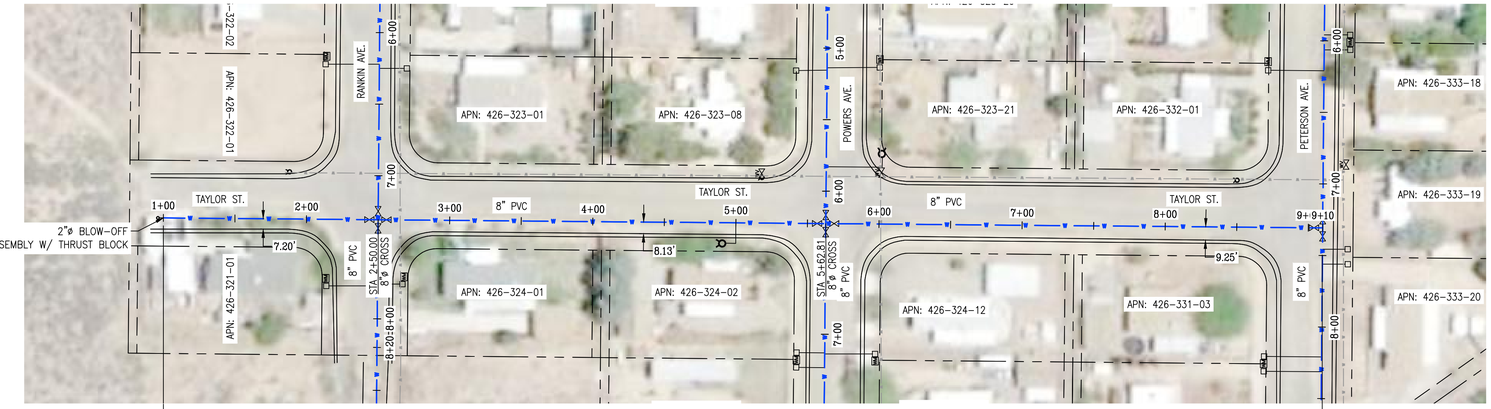
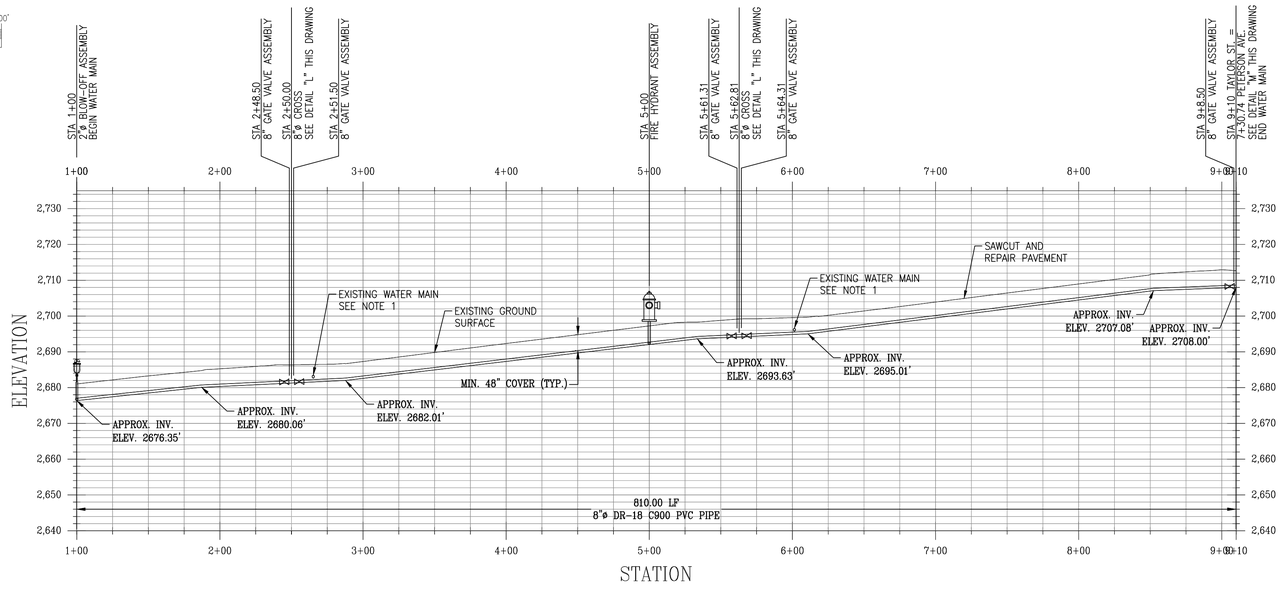


TAYLOR ST. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

SCALE 1"=50'



TAYLOR ST. ALIGNMENT – PROFILE VIEW
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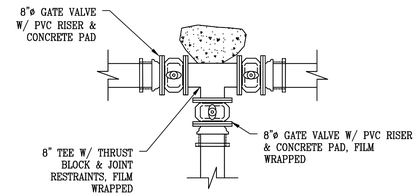
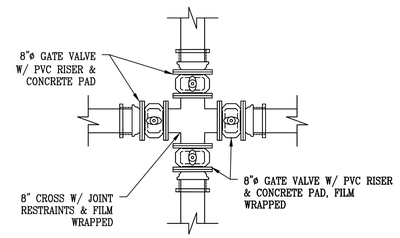


DETAIL M
NTS



DETAIL L
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TAYLOR ST. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
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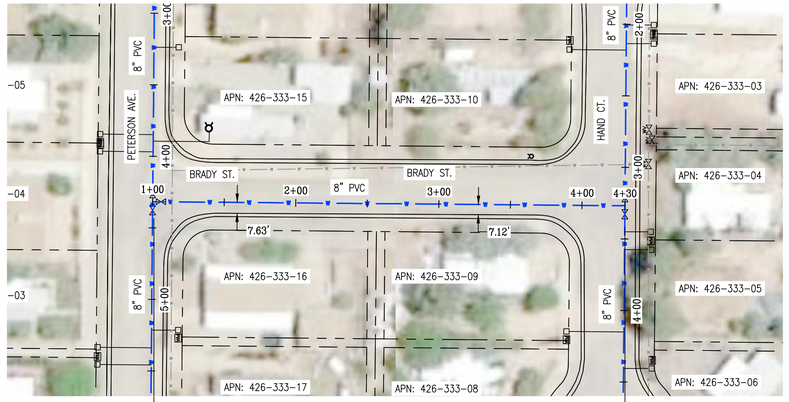


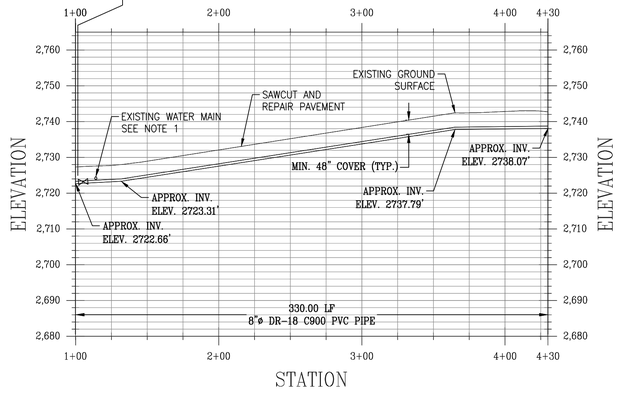
BRADY ST. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

STA 1+00 BRADY ST. = 4+31.71 PETERSON AVE. BEGIN WATER MAIN

STA 4+30 BRADY ST. = 3+26.80 HAND CT. END WATER MAIN

SCALE 1"=50'

0 50' 100' 200'



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9. TRENCH DEPTH AND SHORING APPLICATIONS SHALL COMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION IN STANDARDS – 29 CFR, PART 1926, SUBPART P.
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6			
7			

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CIVIL ENGINEERS
2230 JACORN ROAD BLDG A
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FAX 661 393-4798
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 791-2288
FAX 559 783-1975

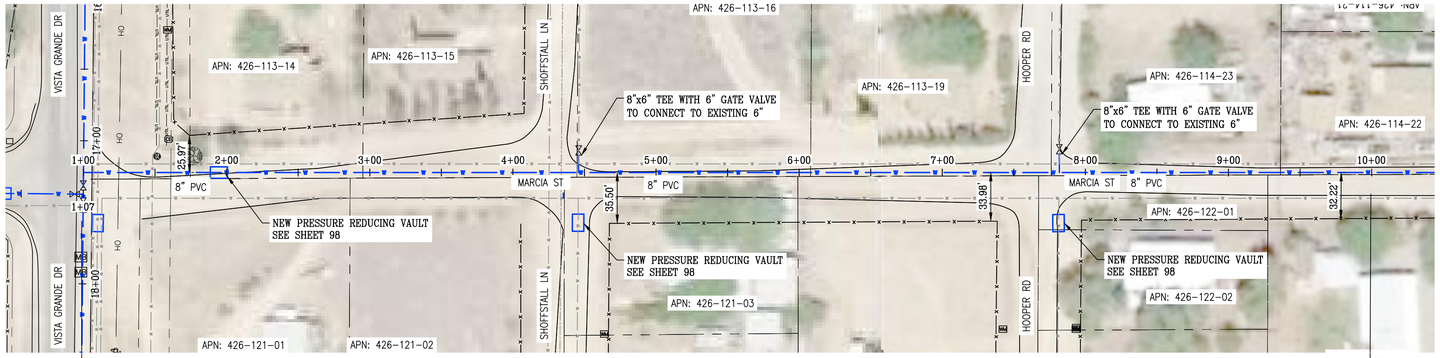
BRADY ST. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 56
OF 86 SHEETS

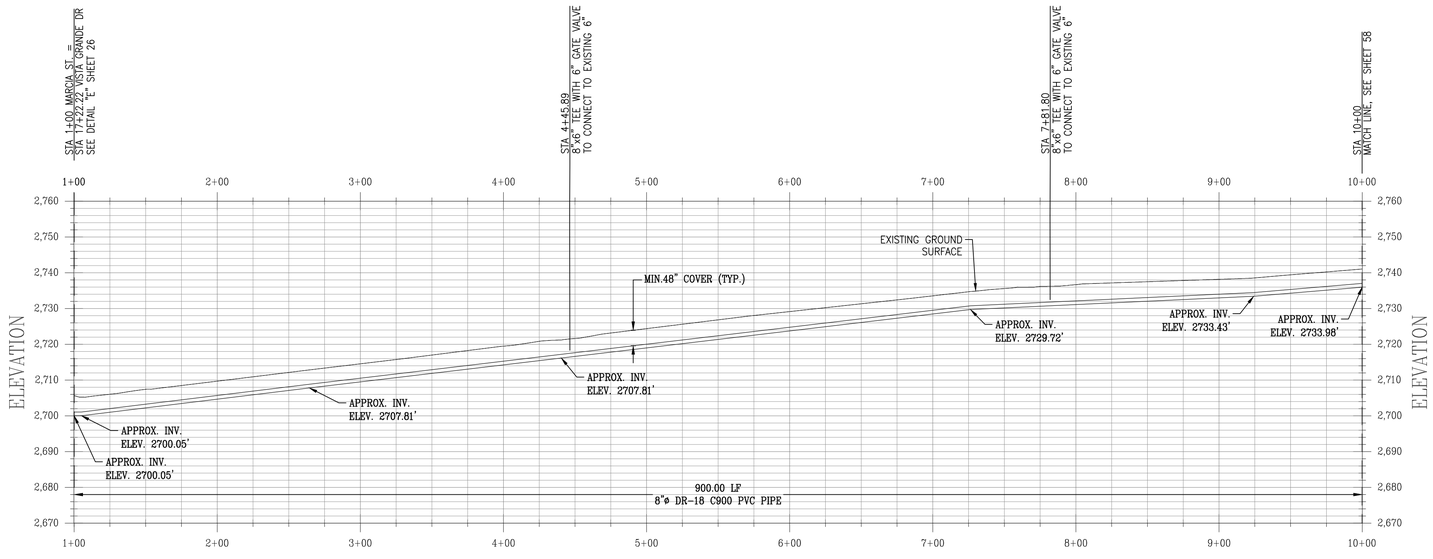
S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\47-56. P&P LONG CANYON.DWG 8/25/2017 8:58 AM



MARCIA ST. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

STA 1+00 MARCIA ST. = STA 17+22.22 VISTA GRANDE DR SEE DETAIL "E" SHEET 26

STA 10+00 MATCH LINE, SEE SHEET 58



MARCIA ST. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=20'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY

SCALE 1"=50'

0 50' 100' 200'

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MARCIA ST. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	57
OF	86 SHEETS

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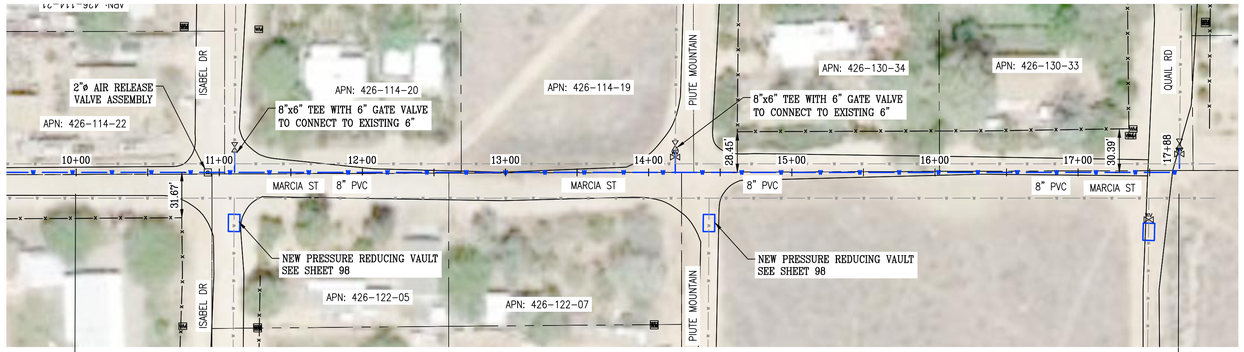
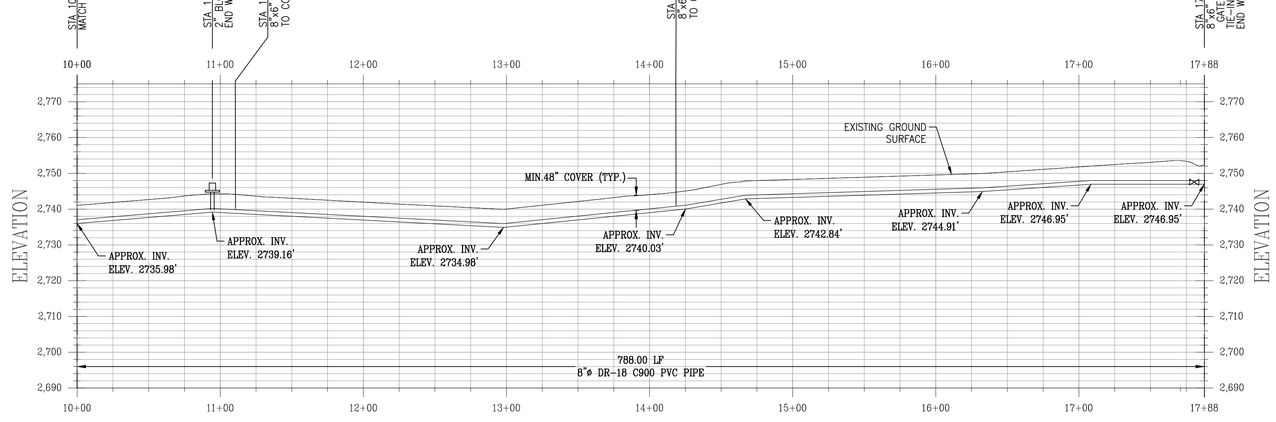


MARCIA ST. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

STA 10+00
MATCH LINE, SEE SHEET 57

STA 17+88
8"x6" REDUCER WITH 6" GATE VALVE TIE-INTO EXISTING END WATER MAIN



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MARCIA ST. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
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DATE JUNE 2016
SCALE AS SHOWN
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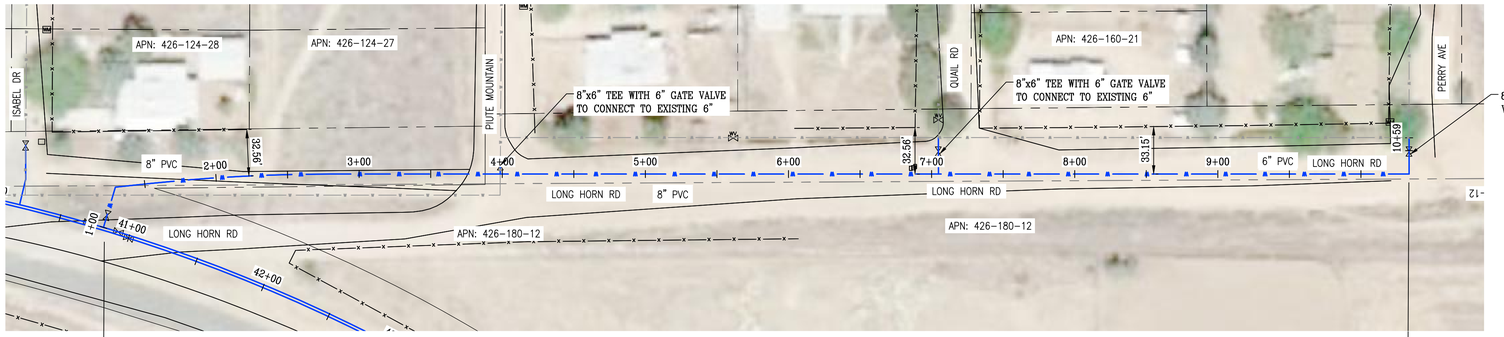
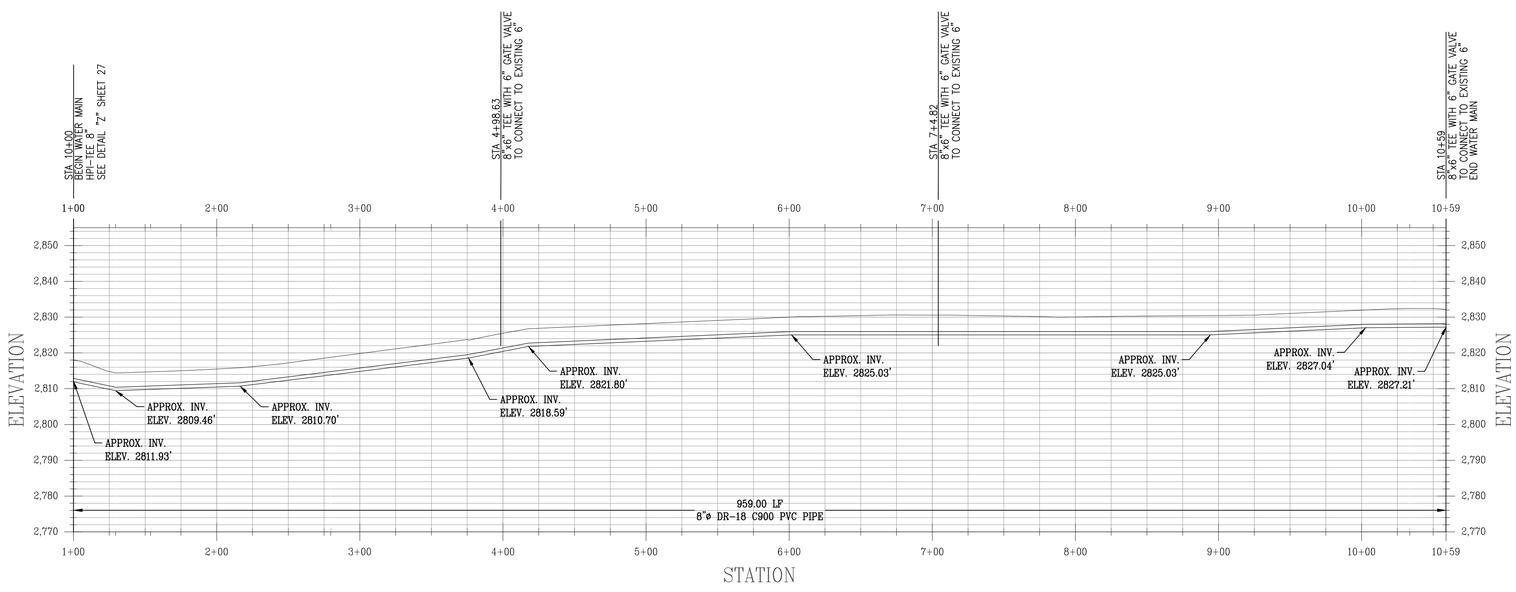
S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\57-66. P&P TRADEWINDS.DWG 9/6/2017 5:59 PM



LONGHORN RD. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



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6. ALL PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C900 DR 18 PRESSURE CLASS 235, EXCEPT WHERE NOTED OTHERWISE. ALL FITTINGS FOR PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C110 OR C153.
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DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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UNDERGROUND SERVICE ALERT
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1-800-642-2444
TWO WORKING DAYS
BEFORE YOU DIG

REV.	DATE	DESCRIPTION	BY
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2720 UNICORN ROAD BLDG A
BAKERSFIELD, CA 93308
PHONE 661 393-4796
FAX 661 393-4808
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1275

LONGHORN RD. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	59
OF	86 SHEETS

VISTA GRANDE DR – PLAN VIEW
HORIZONTAL SCALE: 1"=50'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY

SCALE 1"=50'

0 50' 100' 200'

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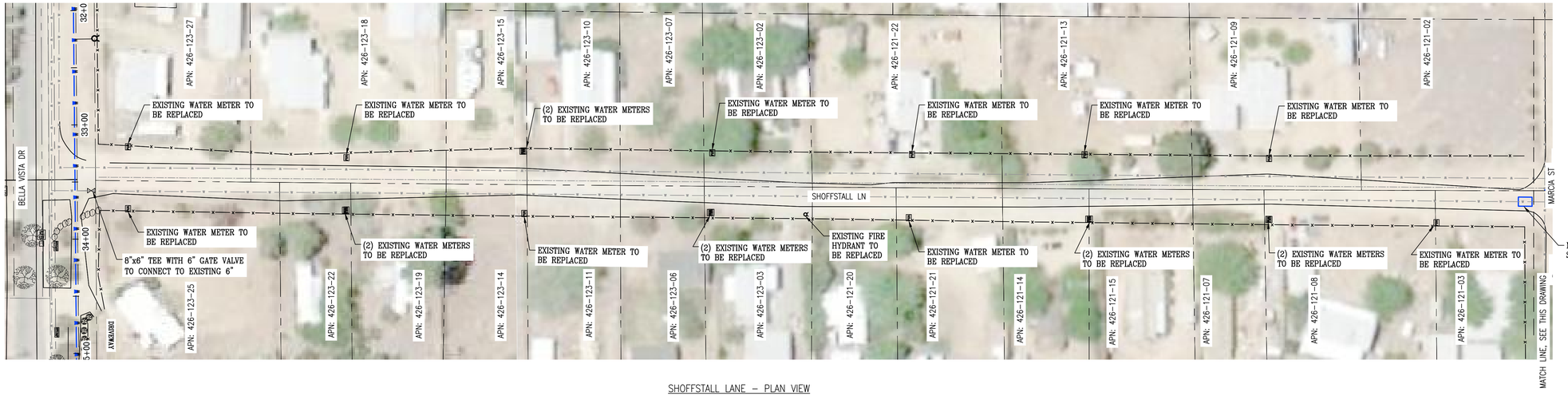
VISTA GRANDE DR – PLAN

WELDON REGIONAL WATER SYSTEM

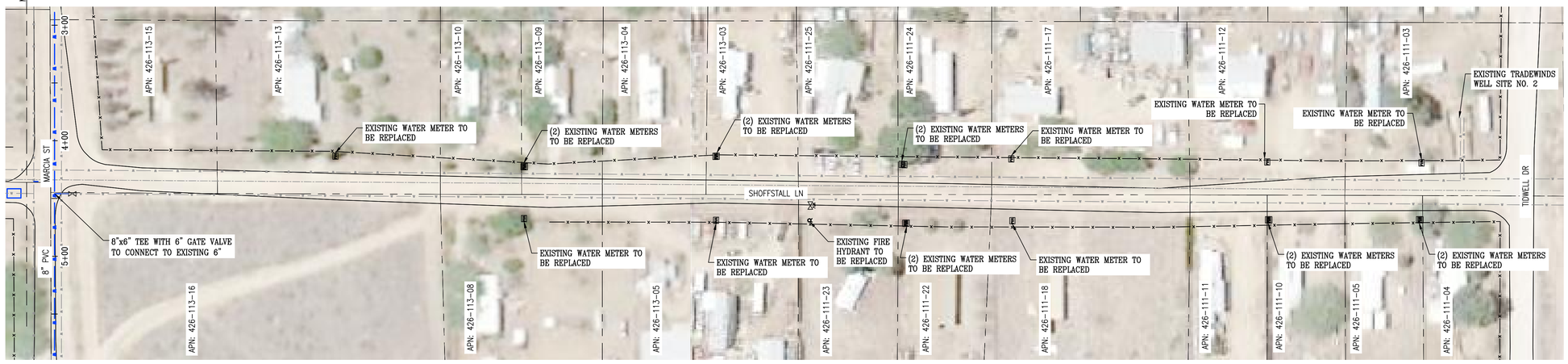
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 60
OF 86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\57-66. P&P TRADEWINDS.DWG 9/6/2017 5:59 PM



SHOFFSTALL LANE – PLAN VIEW
HORIZONTAL SCALE: 1"=50'



SHOFFSTALL LANE – PLAN VIEW
HORIZONTAL SCALE: 1"=50'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2700 UNICORN ROAD, BLDG A
BAKERSFIELD, CA 93308
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FAX 661-393-4798
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559-781-9288
FAX 559-783-1975

SHOFFSTALL LANE – PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN: JLT
CHECKED: CMS
DATE: JUNE 2016
SCALE: AS SHOWN
FILE:
JOB NO.
SHEET: 61
OF 86 SHEETS

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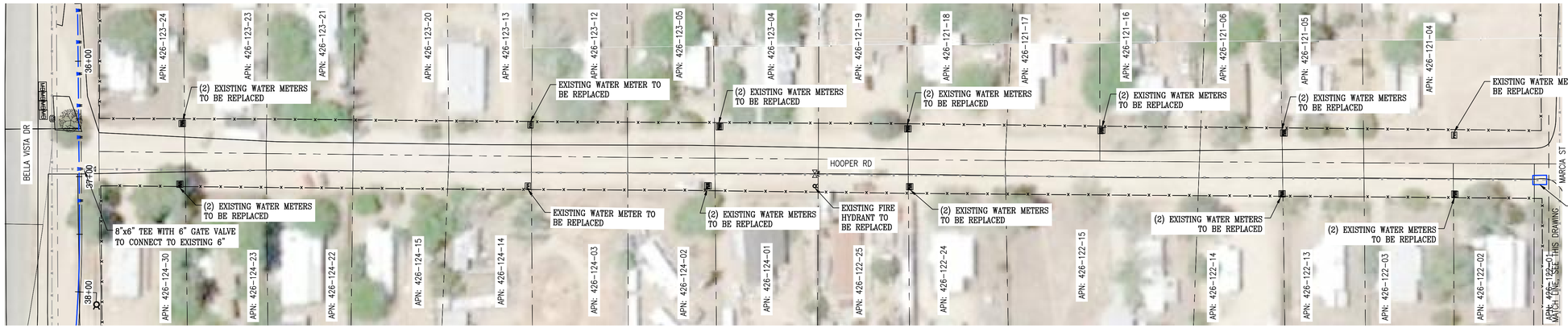
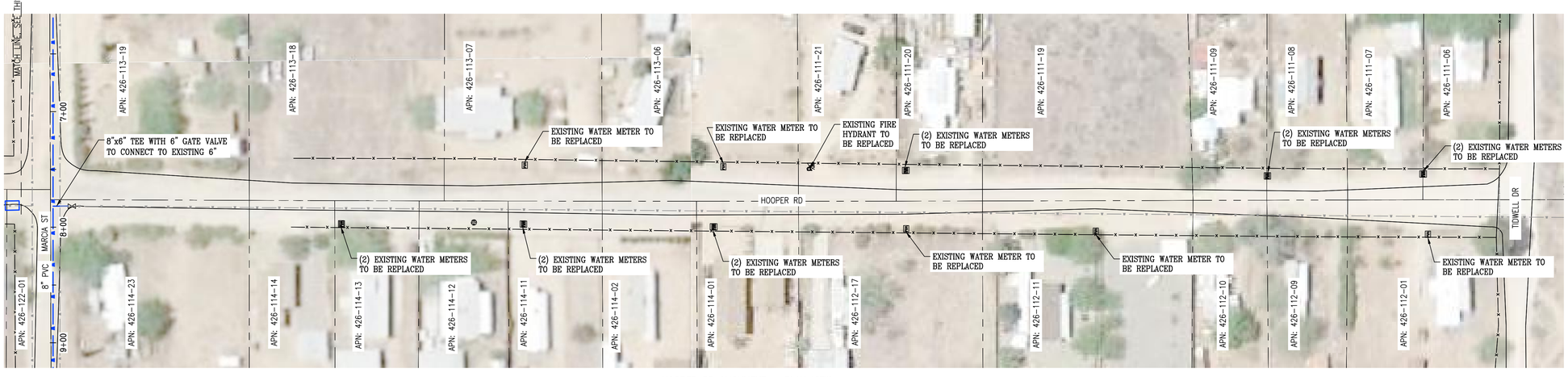


HOOPER RD ALIGNMENT – PLAN VIEW
HORIZONTAL SCALE: 1"=50'



HOOPER RD ALIGNMENT – PLAN VIEW
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LEGEND:

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- EXISTING WATER MAIN
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FAX 559 783-1975

HOOPER ROAD – PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	62
OF	86 SHEETS

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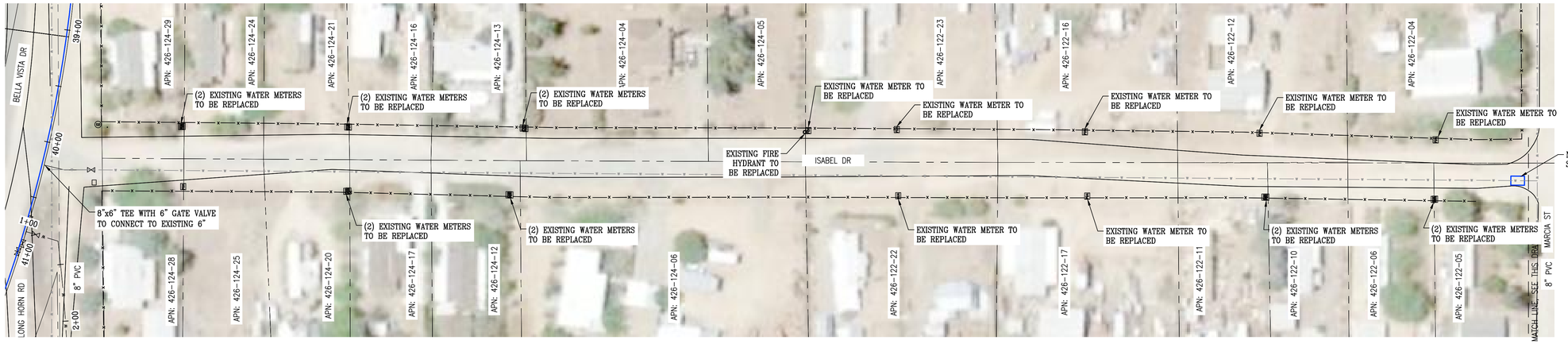
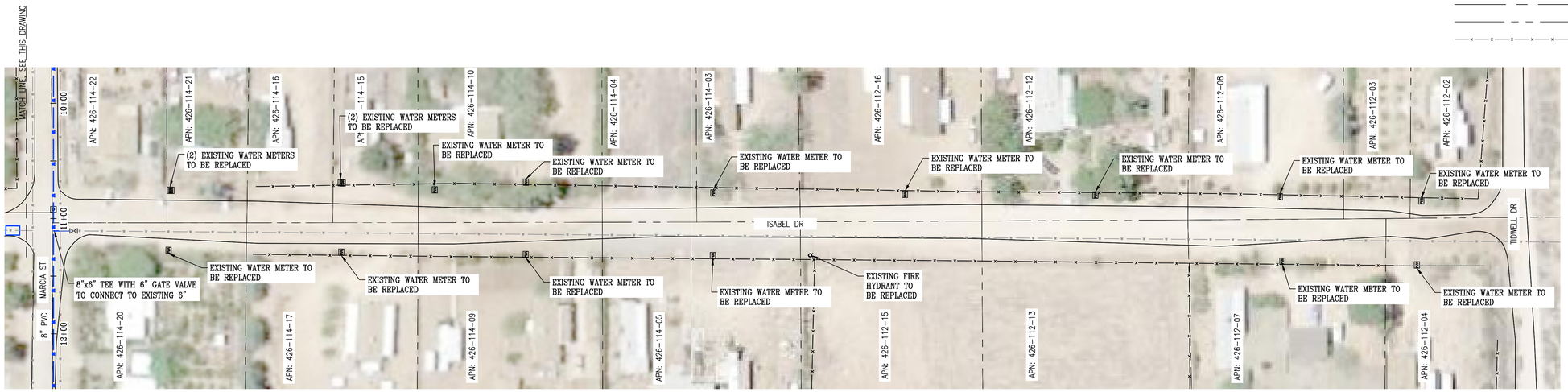


ISABEL DR ALIGNMENT – PLAN VIEW
HORIZONTAL SCALE: 1"=50'



ISABEL DR ALIGNMENT – PLAN VIEW
HORIZONTAL SCALE: 1"=50'

LEGEND:

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- OH — EXISTING OVERHEAD POWER LINES
- UTIL — EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE
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0 50' 100' 200'

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DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-1975
FAX 559 783-1975

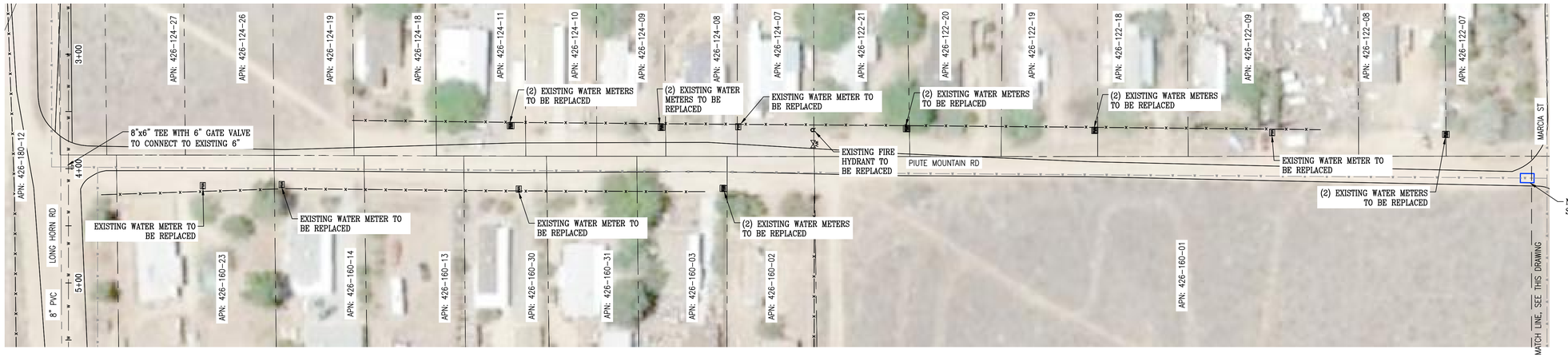
ISABEL DRIVE – PLAN

WELDON REGIONAL WATER SYSTEM

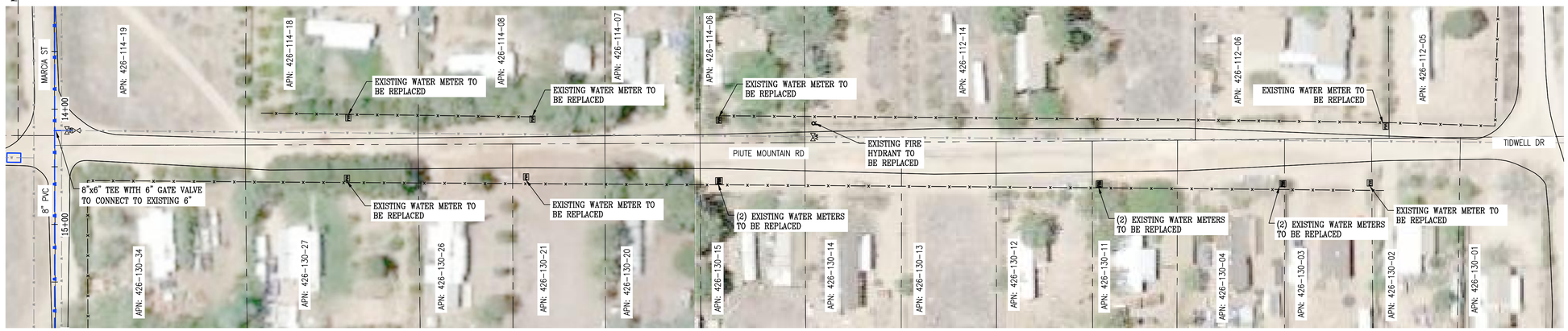
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 63
OF 86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\57-66. P&P TRADEWINDS.DWG 9/6/2017 5:59 PM



PIUTE MOUNTAIN RD ALIGNMENT – PLAN VIEW
HORIZONTAL SCALE: 1"=50'



PIUTE MOUNTAIN RD ALIGNMENT – PLAN VIEW
HORIZONTAL SCALE: 1"=50'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
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PIUTE MOUNTAIN ROAD – PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 64
OF 86 SHEETS

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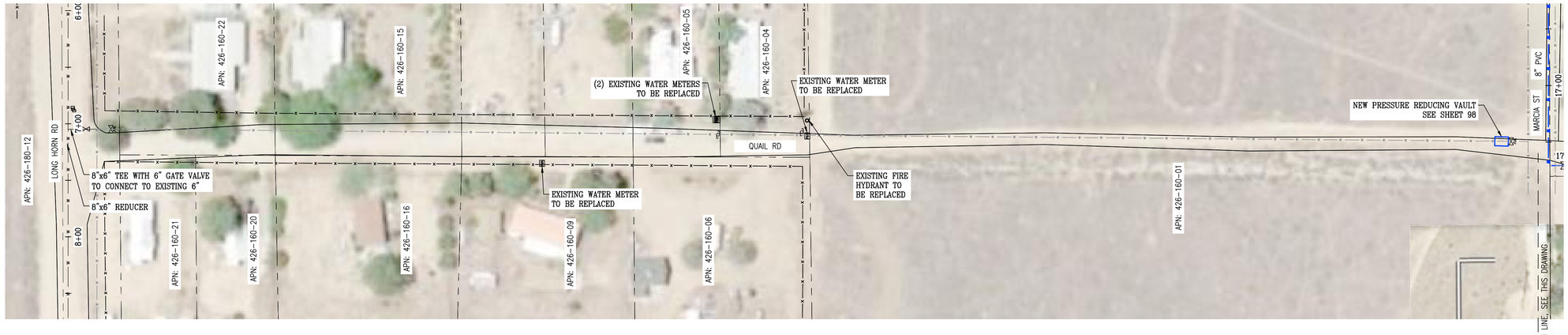
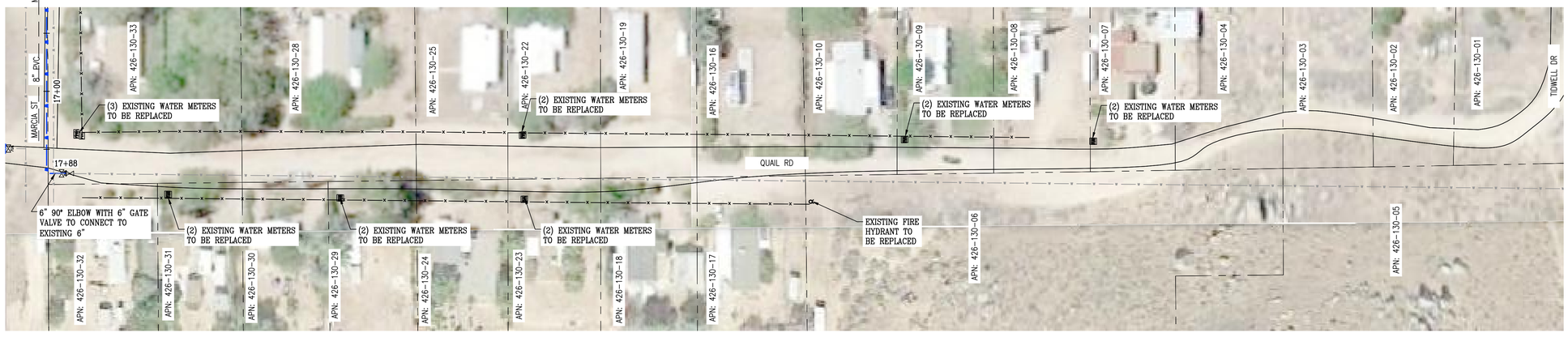


QUAIL RD ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



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QUAIL ROAD – PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	65
OF	86 SHEETS

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PERRY AVE – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
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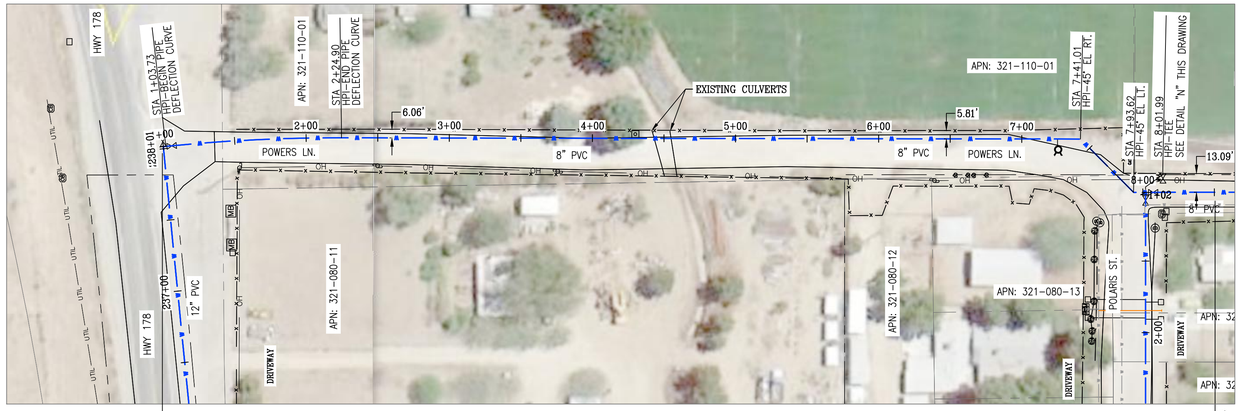
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2700 UNICORN ROAD BLDG A
BAKERSFIELD, CA 93308
PHONE 661 393-4796
FAX 661 393-4799
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 791-2288
FAX 559 783-1975

PERRY AVENUE – PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

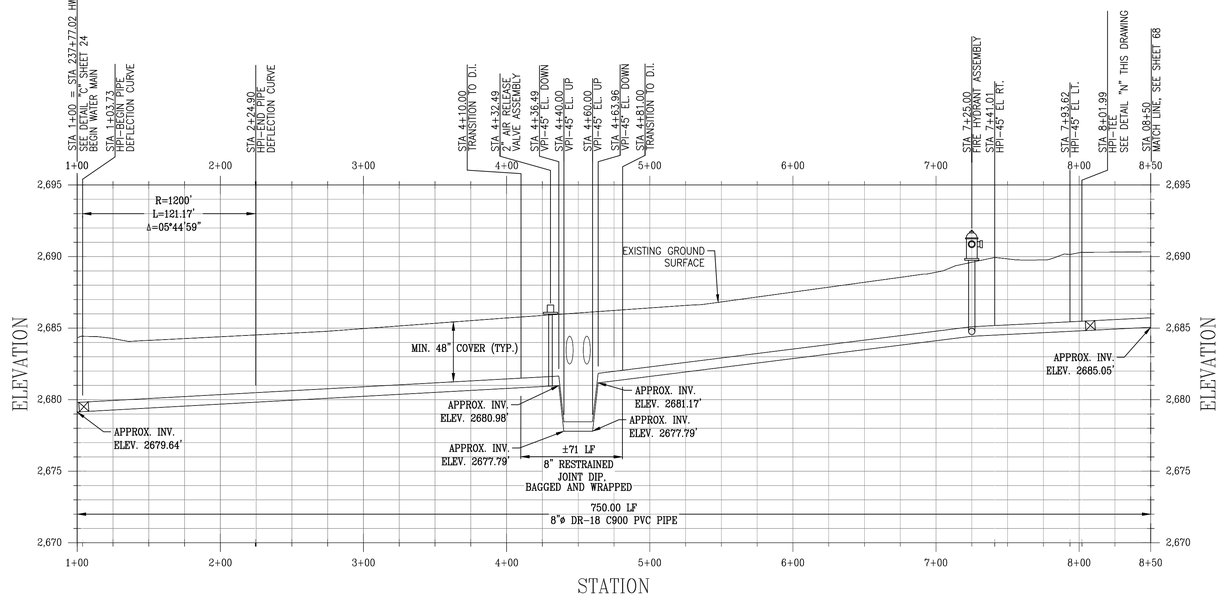
DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 66
OF 86 SHEETS



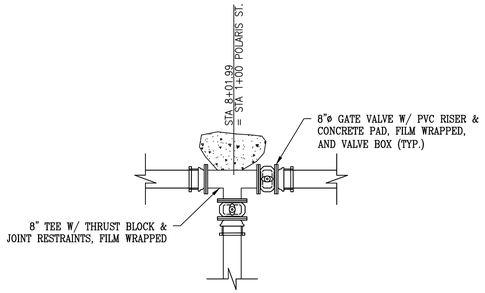
POWERS LANE ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

STA 1+00 = STA 237+77.02 HWY 178
SEE DETAIL "C" SHEET 24
BEGIN WATER MAIN

STA 08+50
MATCH LINE, SEE SHEET 68



POWERS LANE ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



DETAIL N
SCALE: 1" = 4'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXIST PROPERTY LINES
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY

SCALE 1"=50'

0 50' 100' 200'

NOTES:
THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS.

THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES.

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2. CONTRACTOR SHALL USE CONTROLLED LONGITUDINAL BENDING WHEN POSSIBLE TO ACCOMPLISH SMALL CHANGES IN DIRECTION OF THE MAIN LINE ALIGNMENT. THE MAXIMUM ALLOWABLE BENDING FOR THE PVC PIPE SHALL BE IN ACCORDANCE WITH TABLE 8.2 OF THE UNI-BELL HANDBOOK OF PVC PIPE SHOWN ON SHEET 16.
3. LINEAR LOW DENSITY POLYETHYLENE ENCASEMENT TO BE INSTALLED AROUND ALL BURIED METAL FITTINGS AND PIPE, INCLUDING: VALVES, STEEL FLANGES, FITTINGS, JOINT RESTRAINTS, BOLTS, ETC., IN ACCORDANCE WITH AWWA C105 STANDARDS. POLYETHYLENE ENCASEMENT SHALL BE COLORED.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIGNS, POSTS, AND BOLLARDS ALONG THE PIPELINE ALIGNMENT AND SHALL BE RESPONSIBLE FOR THEIR REPAIR OR REPLACEMENT WHERE IMPACTED. ALL IMPACTED FACILITIES SHALL BE RESTORED BY THE CONTRACTOR TO MATCH EXISTING AND BE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.
5. CONTRACTOR SHALL PERFORM ALL WORK IN COUNTY RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF THE ENCROACHMENT PERMIT AND THE REQUIREMENTS OF THE COUNTY INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY PAVEMENT DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE COUNTY AND THE ENGINEER.
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7. EACH JOINT IN AND OUT OF ALL FITTINGS SHALL BE RESTRAINED AND A CONCRETE THRUST BLOCK INSTALLED IN ACCORDANCE WITH THRUST BLOCK DETAILS HEREIN.
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DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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TWO WORKING DAYS
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POWERS LANE ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	67
OF	86 SHEETS

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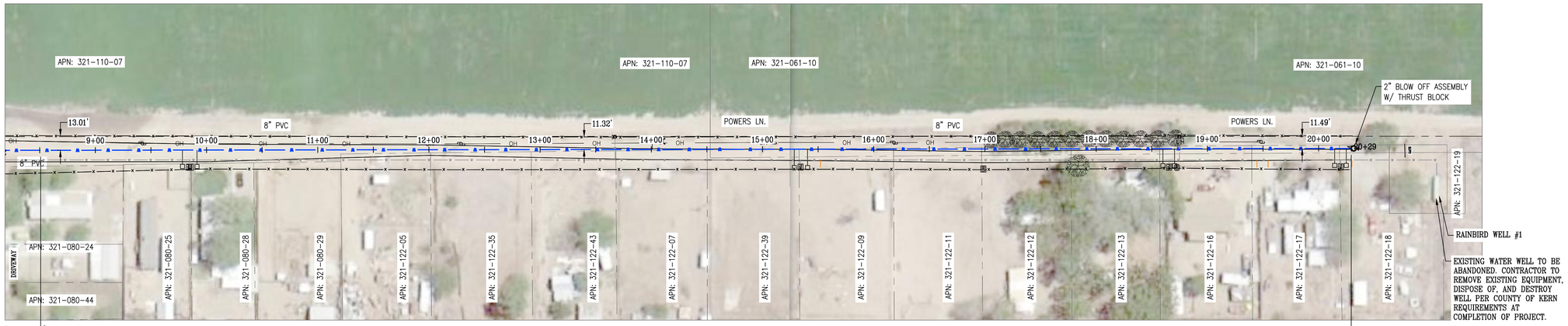

POWERS LANE – PLAN VIEW
SCALE: 1"=50'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
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- COUNTY RIGHT OF WAY
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- EXISTING SIGN
- EXISTING MAIL BOX
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- EXISTING WATER METER
- EXISTING BRUSH
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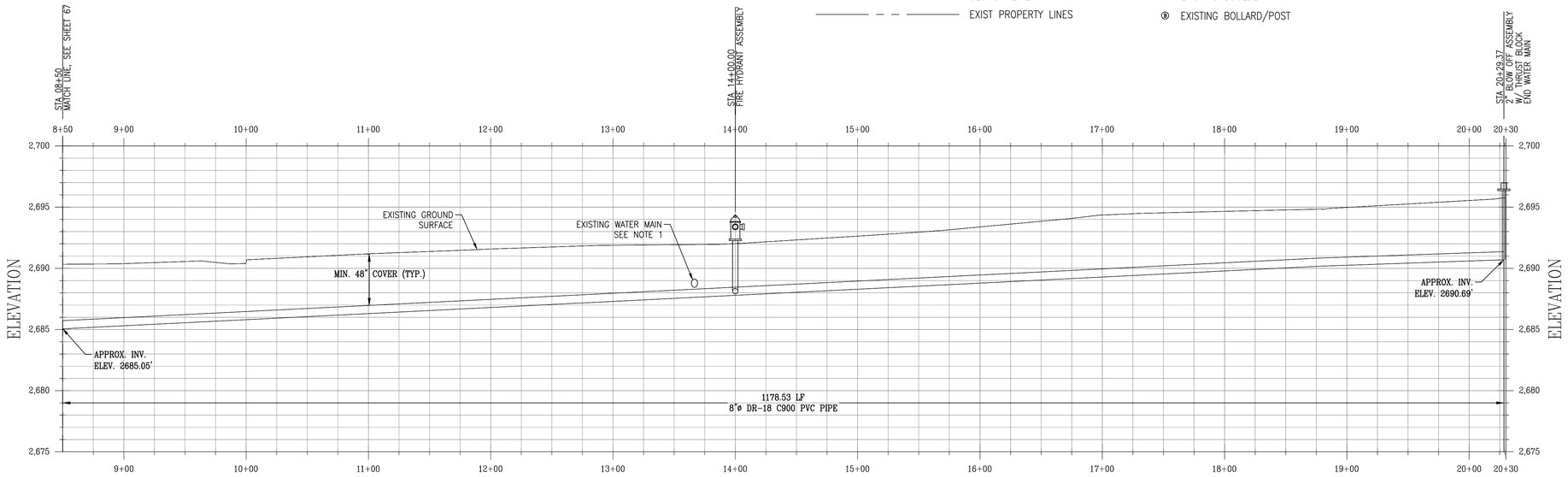

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SCALE 1"=50'
0 50' 100' 200'

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TWO WORKING DAYS
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REV.	DATE	DESCRIPTION	BY
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POWERS LANE ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	68
OF	86 SHEETS

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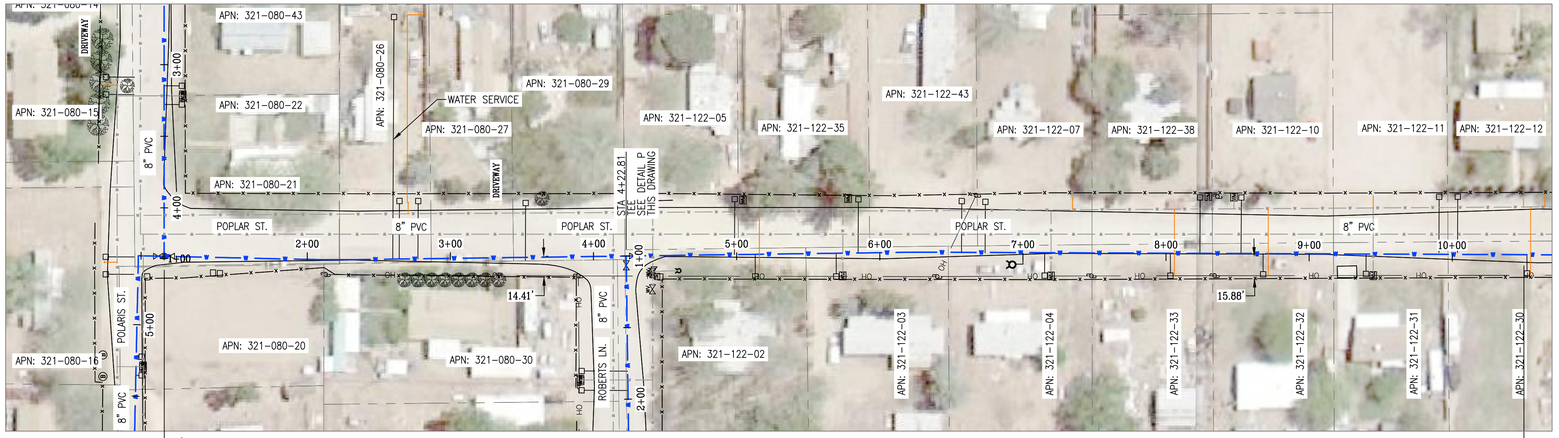
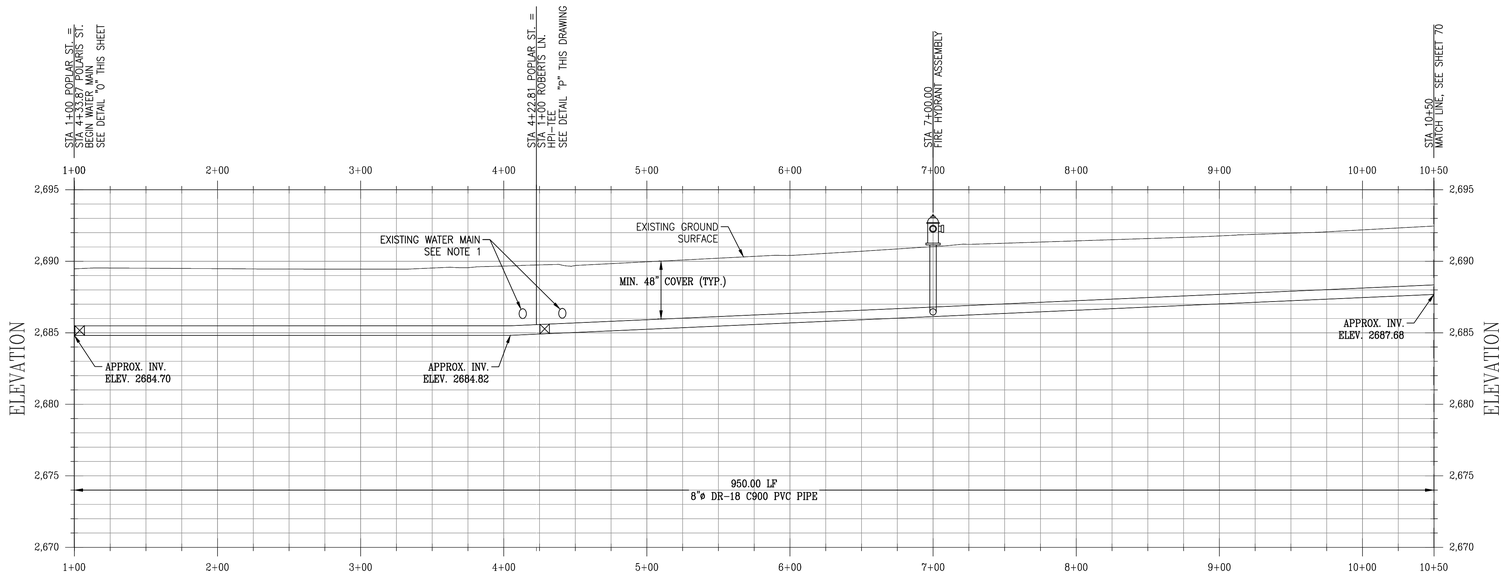


POPLAR ST. – PLAN VIEW
SCALE: 1"=50'

STA 1+00 POPLAR ST. = STA 4+33.87 POLARIS ST.
BEGIN WATER MAIN
SEE DETAIL "O" THIS SHEET



POPLAR ST. – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

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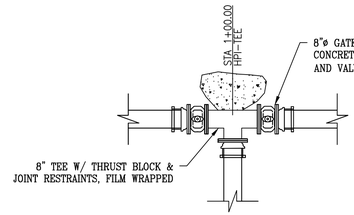
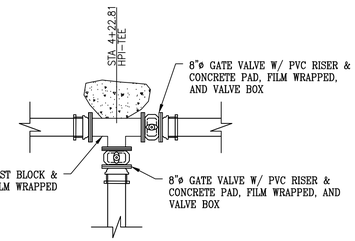


DETAIL O
SCALE: 1" = 4'



DETAIL P
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WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

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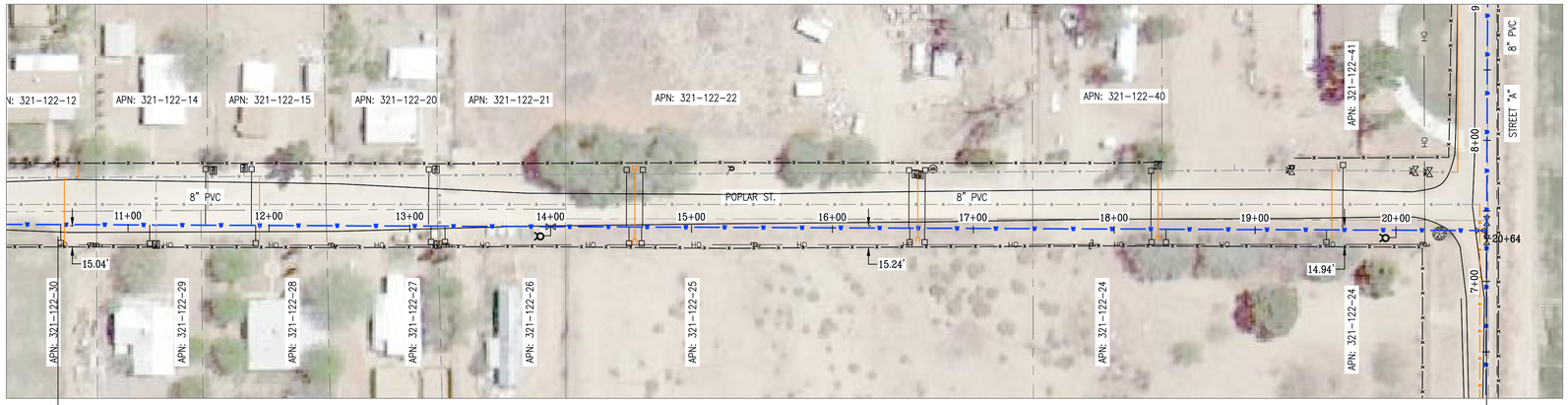
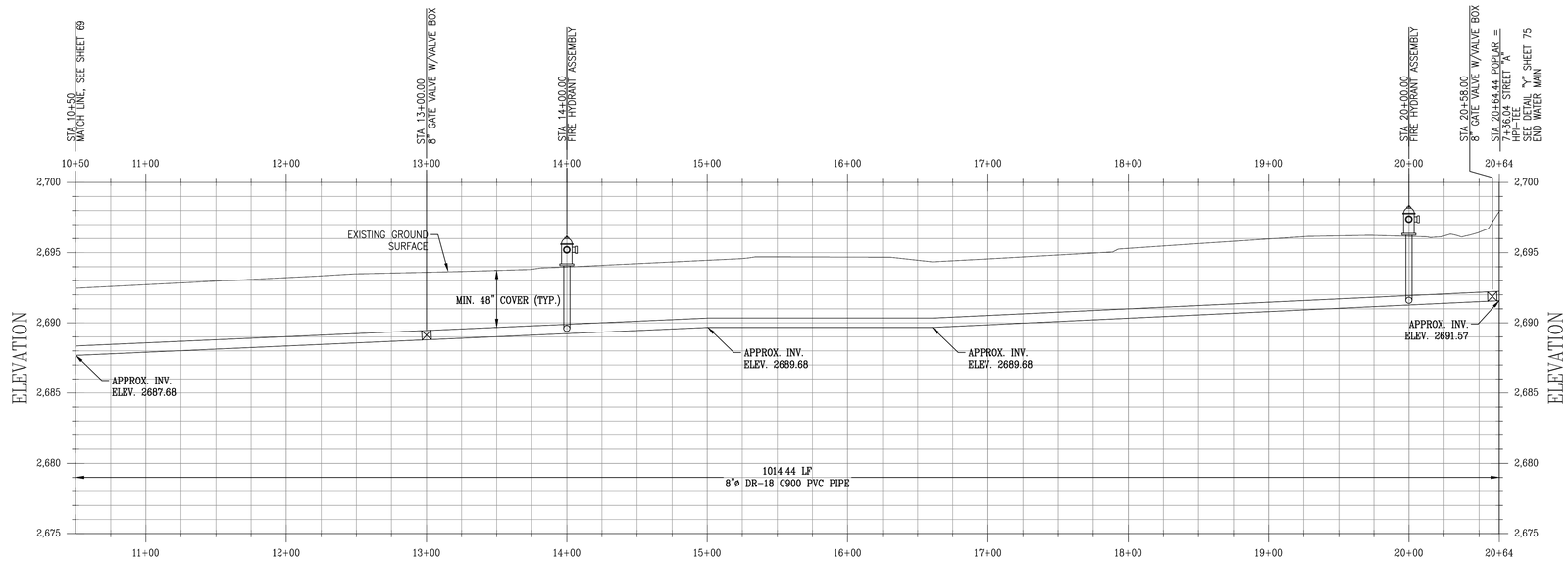


POPLAR ST. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



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LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- OH — EXISTING OVERHEAD POWER LINES
- UTIL UTIL UTIL UTIL — EXISTING UTILITY LINES
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- EXISTING SIGN
- MB EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY

SCALE 1"=50'
0 50' 100' 200'

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DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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1-800-642-2444
TWO WORKING DAYS
BEFORE YOU DIG

REV.	DATE	DESCRIPTION	BY
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2			
3			
4			
5			
6			
7			

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2700 UNICORN ROAD, BLDG A
BAKERSFIELD, CA 93308
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FAX 661 393-4798
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-2288
FAX 559 783-1975

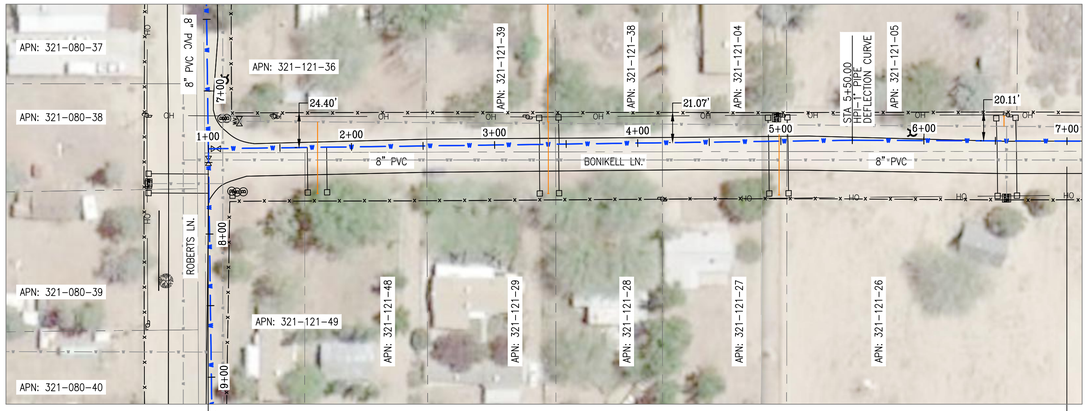
POPLAR ST. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

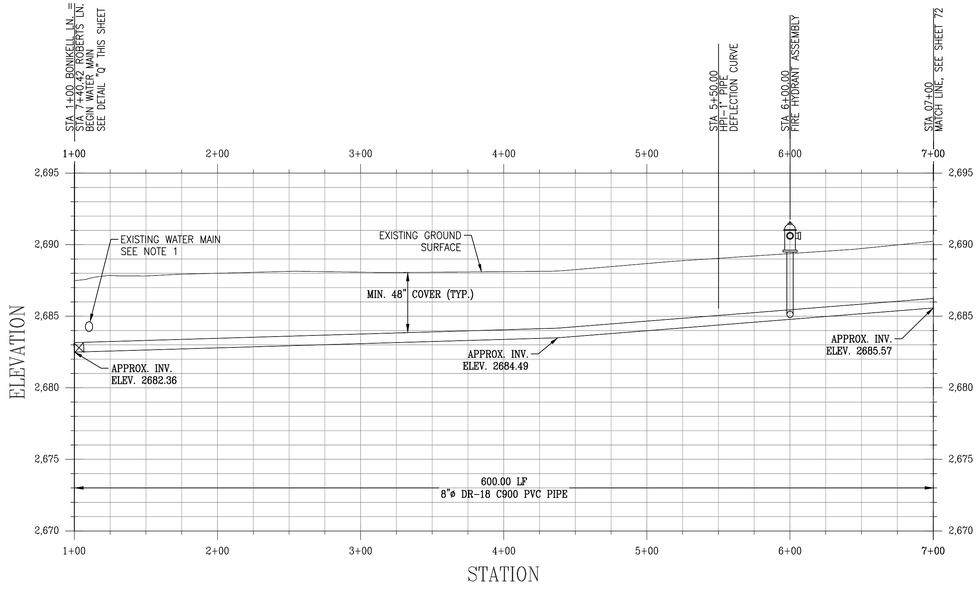
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JUNE 2016
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	70
OF	86 SHEETS

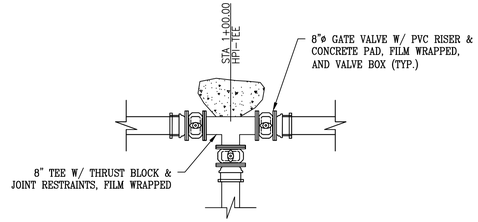
S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\67-75. P&P RAINBIRD.DWG 8/25/2017 9:09 AM



BONIKELL LN. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



BONIKELL LN. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'



DETAIL Q
SCALE: 1" = 4'

LEGEND:

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- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXIST PROPERTY LINES
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BONIKELL LN. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 71
OF 86 SHEETS

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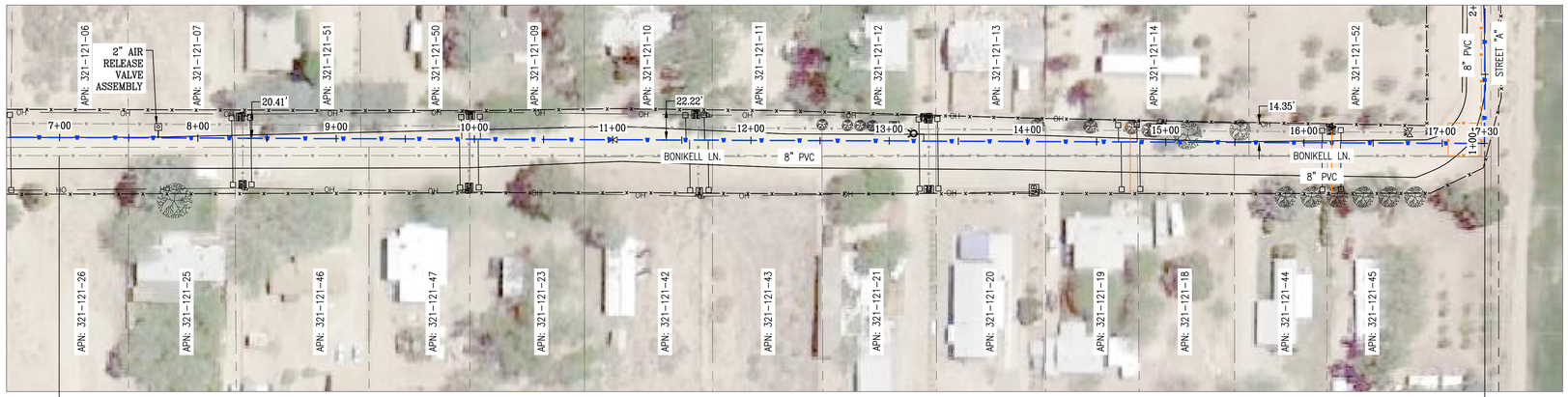
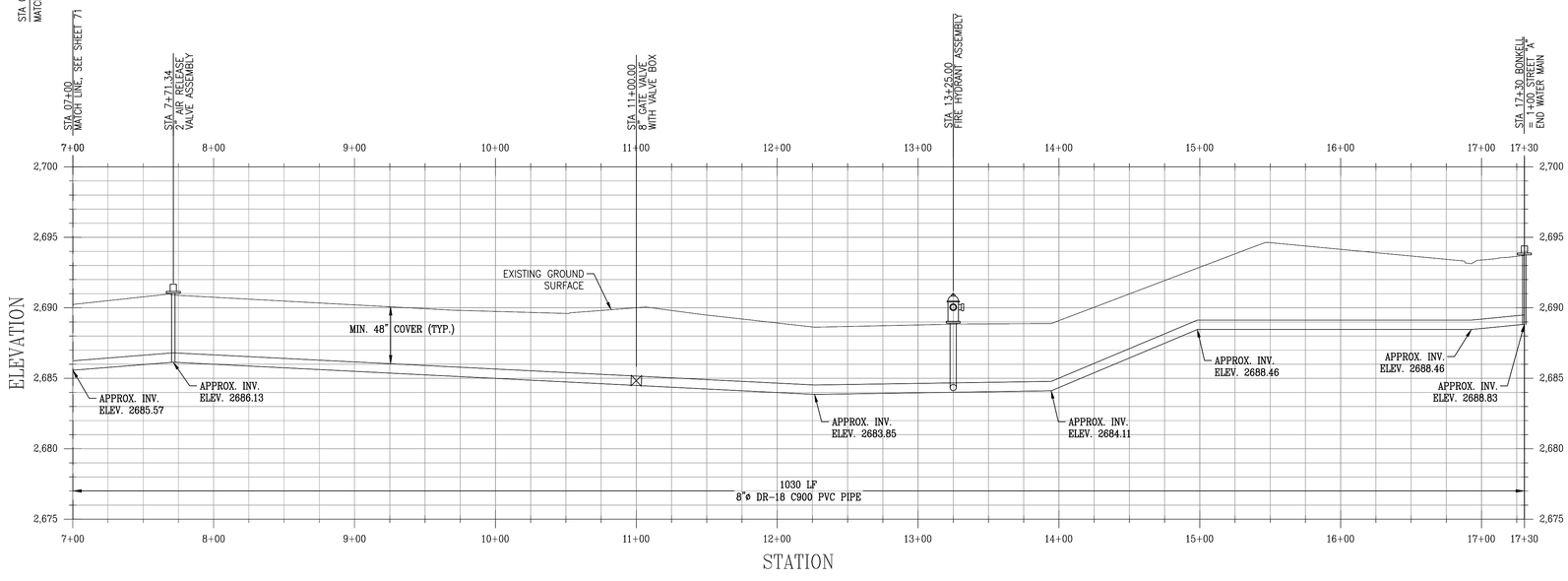


BONIKELL LN. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



BONIKELL LN. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
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- PUBLIC RIGHT OF WAY
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PROFILE

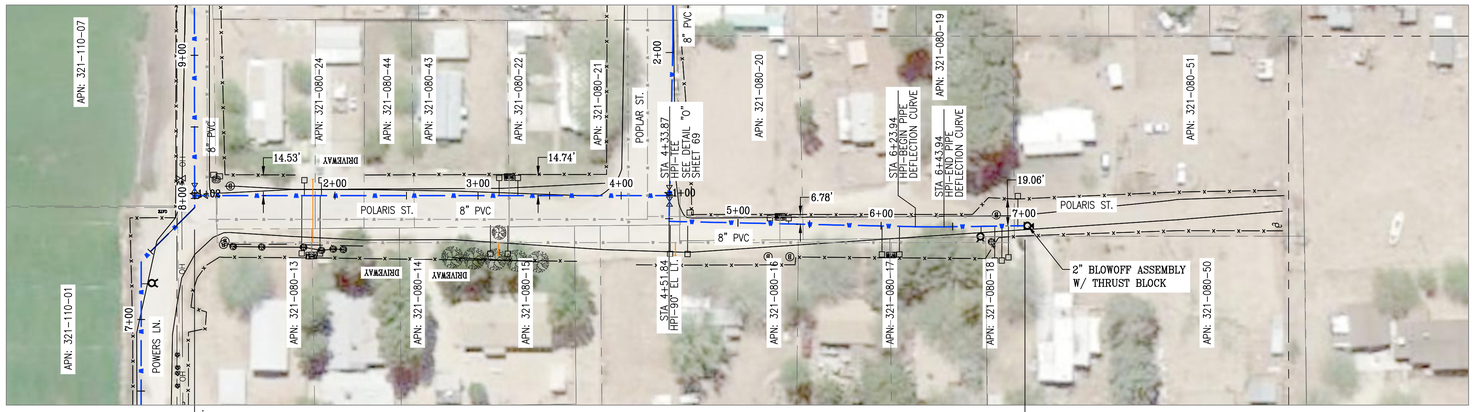
BONIKELL LN. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

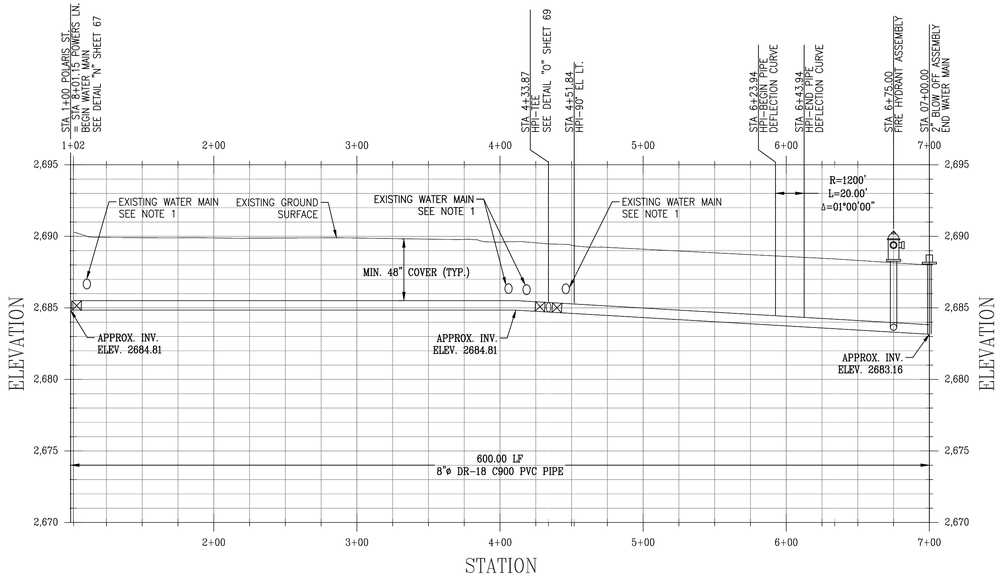
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 72
OF 86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\67-75. P&P RAINBIRD.DWG 8/25/2017 9:09 AM



POLARIS ST. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'



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- EXISTING OVERHEAD POWER LINES
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4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIGNS, POSTS, AND BOLLARDS ALONG THE PIPELINE ALIGNMENT AND SHALL BE RESPONSIBLE FOR THEIR REPAIR OR REPLACEMENT WHERE IMPACTED. ALL IMPACTED FACILITIES SHALL BE RESTORED BY THE CONTRACTOR TO MATCH EXISTING AND BE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.
5. CONTRACTOR SHALL PERFORM ALL WORK IN COUNTY RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF THE ENCROACHMENT PERMIT AND THE REQUIREMENTS OF THE COUNTY INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY PAVEMENT DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE COUNTY AND THE ENGINEER.
6. ALL PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C900 DR 18 PRESSURE CLASS 235, EXCEPT WHERE NOTED OTHERWISE. ALL FITTINGS FOR PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C110 OR C153.
7. EACH JOINT IN AND OUT OF ALL FITTINGS SHALL BE RESTRAINED AND A CONCRETE THRUST BLOCK INSTALLED IN ACCORDANCE WITH THRUST BLOCK DETAILS HEREIN.
8. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES SET FORTH BY THE COUNTY ENCROACHMENT PERMIT.
9. TRENCH DEPTH AND SHORING APPLICATIONS SHALL COMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION IN STANDARDS – 29 CFR, PART 1926, SUBPART P.
10. SAWCUT AND REPAIR AC DRIVE APPROACHES TO MATCH EXISTING. CONTRACTOR TO MAINTAIN FACILITY INGRESS AND EGRESS DURING CONSTRUCTION.
11. SERVICES NOT SHOWN ON PROFILE VIEW FOR CLARITY. ONE-INCH DIAMETER SERVICES SHALL BE INSTALLED WITH ⅝" X ¾" METERS WITH REMOTE READ TRANSMITTER AND METER BOX. METERED SERVICE LOCATION SHALL BE COORDINATED IN FIELD WITH THE ENGINEER AND OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING EACH METERED SERVICE UP TO THE FLOW METER AT THE PROPERTY LINE.

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

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1-800-642-2444
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REV.	DATE	DESCRIPTION	BY
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7			

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2700 UNICORN ROAD BLDG A
BAKERSFIELD, CA 93308
PHONE 661 393-4796
FAX 661 393-4799
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1975

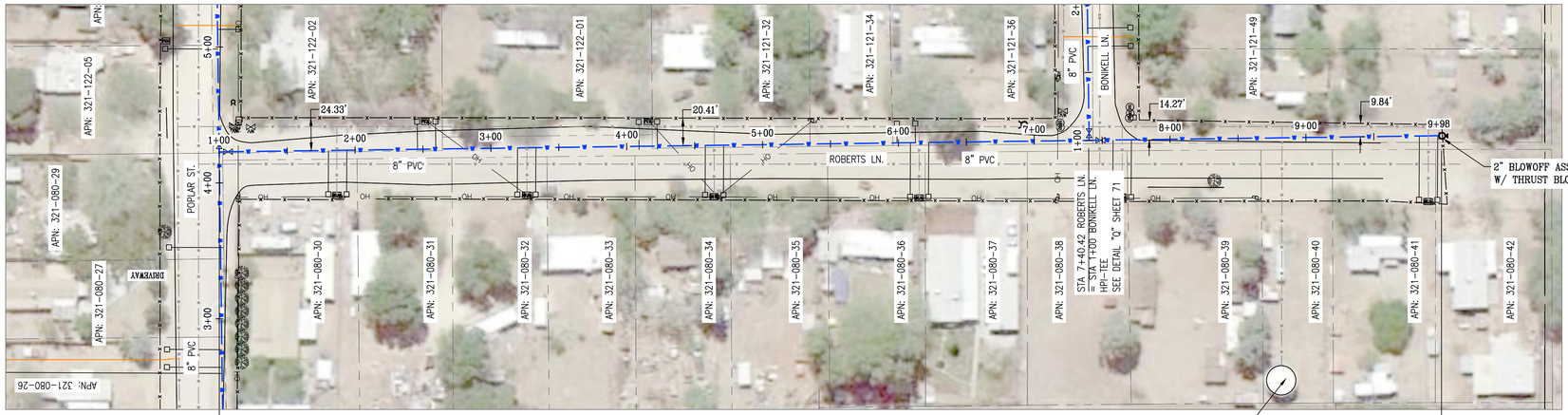
POLARIS ST. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 73
OF 86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\67-75. P&P RAINBRD.DWG 8/25/2017 9:09 AM

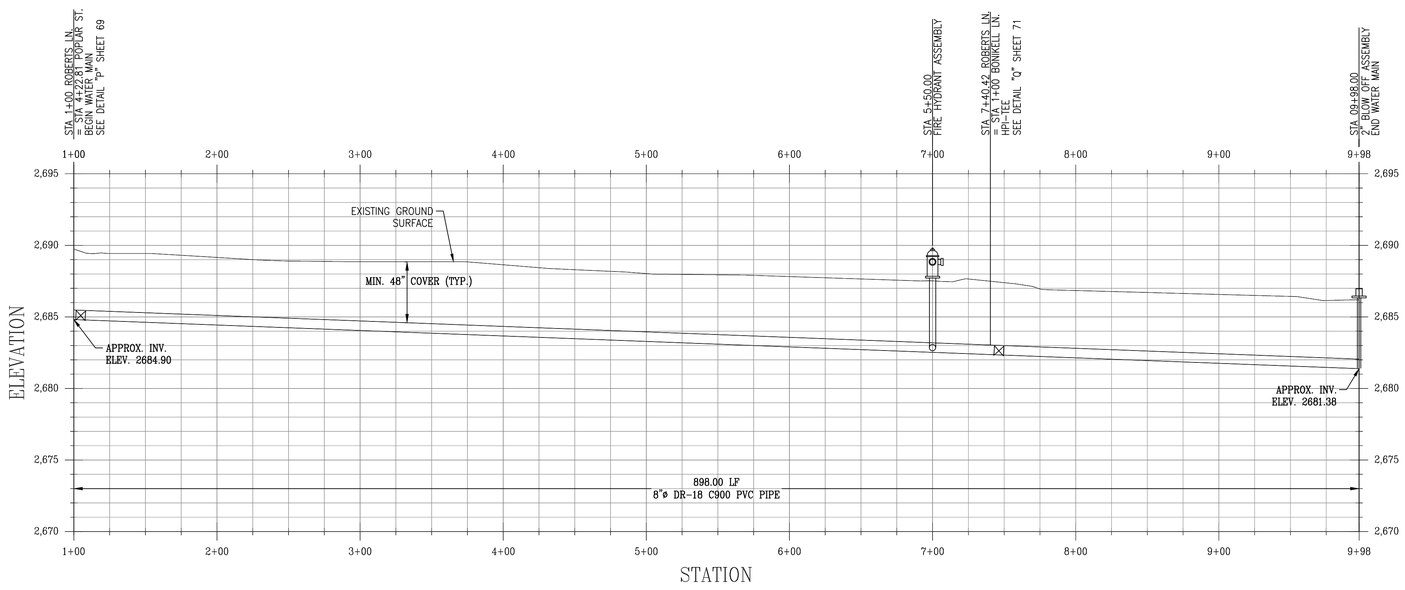


ROBERTS LN. ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

STA 1+00 ROBERTS LN.
= STA 4+22.81 POPLAR ST.
BEGIN WATER MAIN
SEE DETAIL "P" SHEET 69

RAINBIRD EXISTING WELL NO. 2 SITE TO BE ABANDONED IN ACCORDANCE WITH COUNTY OF KERN STANDARDS. CONTRACTOR TO REMOVE AND DISPOSE OF ALL EQUIPMENT, LEVEL, AND CLEAN SITE

STA 09+98.00
2" BLOW OFF ASSEMBLY
END WATER MAIN



ROBERTS LN. ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXIST PROPERTY LINES
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY

SCALE 1"=50'
0 50' 100' 200'

NOTES:
THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS.

THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES.

NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS.

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GENERAL CONSTRUCTION NOTES:

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8. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE GUIDELINES SET FORTH BY THE COUNTY ENCROACHMENT PERMIT.
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CIVIL ENGINEERS
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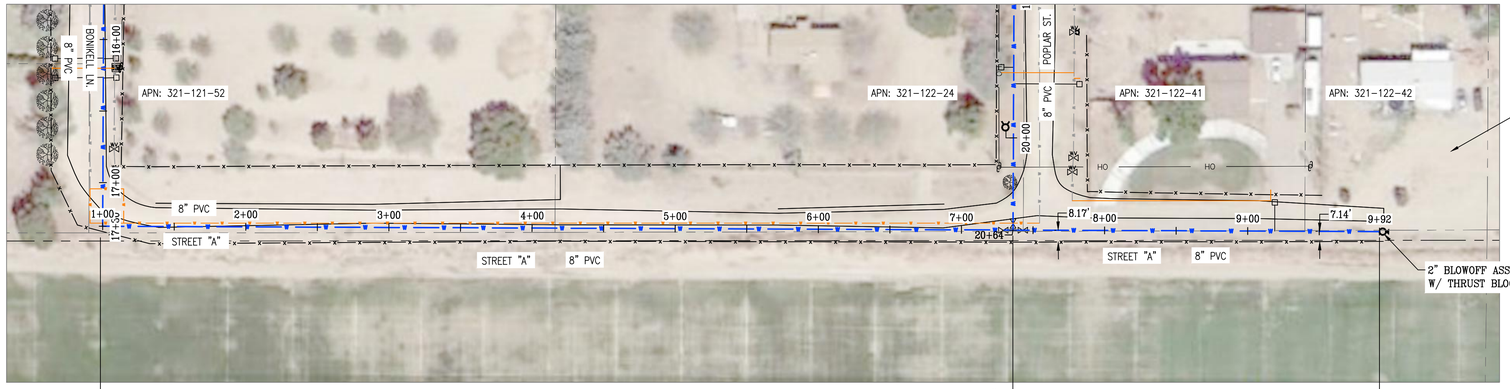
PHONE 661 393-4796
FAX 661 393-4798
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9288
FAX 559 783-1975

ROBERTS LN. ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 74
OF 86 SHEETS

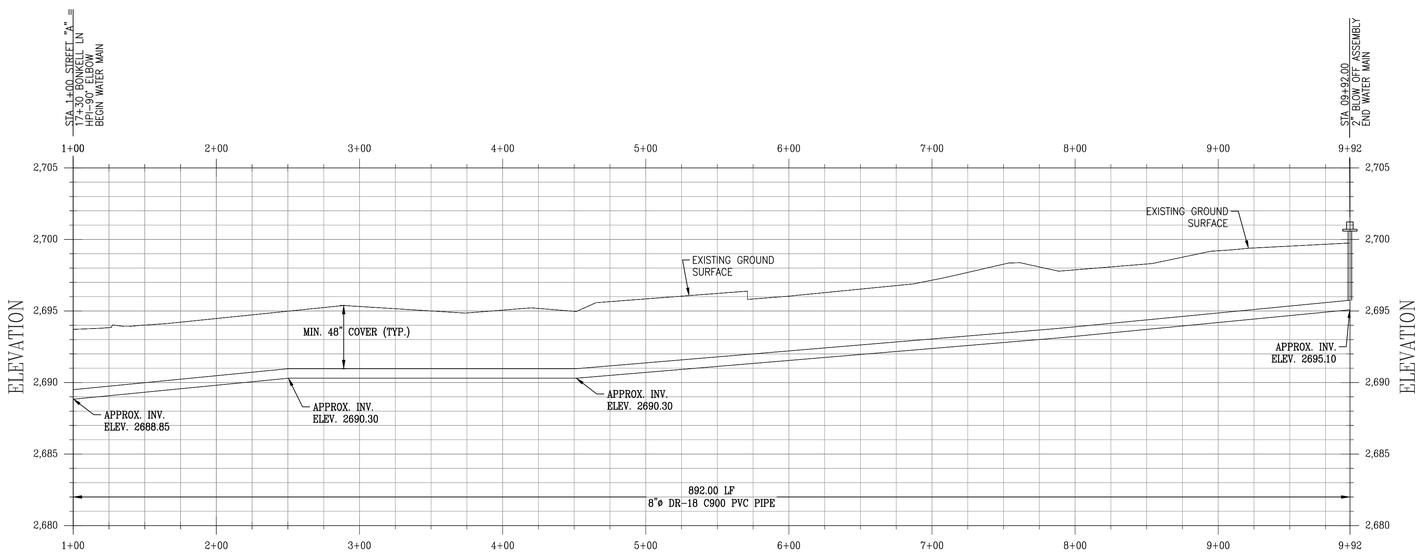


STREET "A" ALIGNMENT – PLAN VIEW
SCALE: 1"=50'

STA 1+00 STREET "A" = 17+30 BONKELL LN HPI-90° ELBOW BEGIN WATER MAIN

STA 07+36.04 STREET "A"= STA 20+64.44 POPLAR ST. HPI-TEE SEE DETAIL "Y" THIS DRAWING

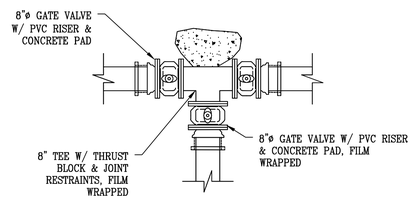
STA 09+92.00 2" BLOW OFF ASSEMBLY END WATER MAIN



STREET "A" ALIGNMENT – PROFILE VIEW
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=5'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- OH — EXISTING OVERHEAD POWER LINES
- UTIL — EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXIST PROPERTY LINES
- EXISTING SIGN
- MB EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- WM EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- B EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY



DETAIL Y
NTS

SCALE 1"=50'
0 50' 100' 200'

NOTES:
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7. EACH JOINT IN AND OUT OF ALL FITTINGS SHALL BE RESTRAINED AND A CONCRETE THRUST BLOCK INSTALLED IN ACCORDANCE WITH THRUST BLOCK DETAILS HEREIN.
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CIVIL ENGINEERS
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FAX 661 393-4798
15 W PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-2288
FAX 559 783-1975

STREET "A" ALIGNMENT PLAN & PROFILE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 75
OF 86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\67-75. P&P RAINBIRD.DWG 8/25/2017 9:09 AM

GRAPHIC SCALE

15 0 7.5 15 30 60

(IN FEET)
1 inch = 15 ft.

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Know what's below.
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DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF CALIFORNIA

NOTE:

THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, SINCE THE LOCATIONS AND DESCRIPTIONS WERE NOT ALL OBTAINED FROM ACTUAL FIELD SURVEYS, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS. THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL(S) HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL(S).

NOTES:

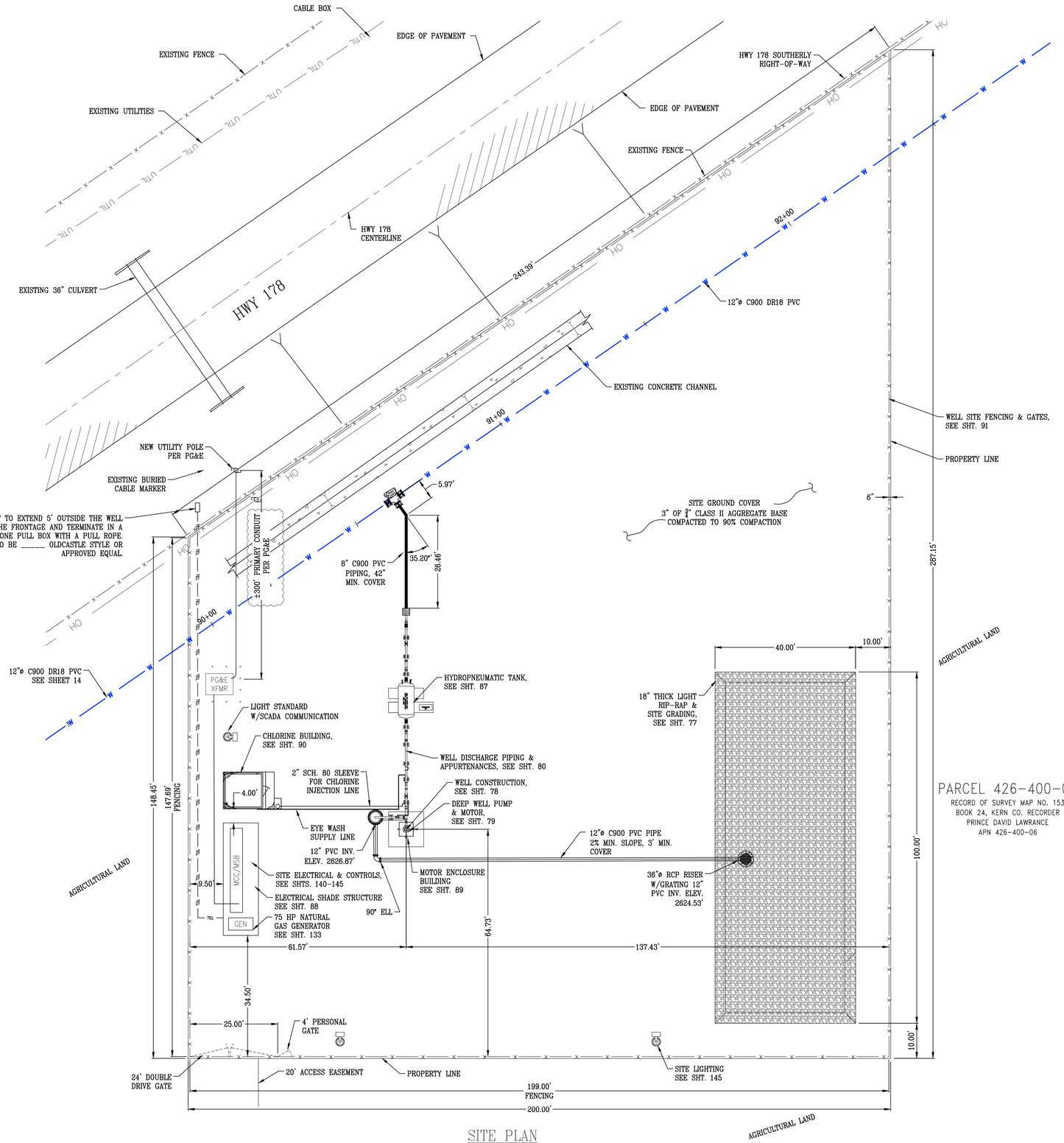
1. CONTRACTOR SHALL PERFORM A U.S.A. LOCATE PRIOR TO COMMENCING CONSTRUCTION.

NOTES:

1. CONTRACTOR SHALL POTHOLE AND EXPOSE EXISTING UNDERGROUND FACILITIES PRIOR TO COMMENCING PIPE TRENCHING AND SHALL PREVENT DAMAGE TO SAID FACILITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIGNS, POSTS, BOLLARDS, MAILBOXES ETC. ALONG THE PIPELINE ALIGNMENT AND SHALL BE RESPONSIBLE FOR THEIR REPAIR OR REPLACEMENT WHERE IMPACTED. ALL IMPACTED FACILITIES SHALL BE RESTORED BY THE CONTRACTOR TO MATCH EXISTING AND BE TO THE SATISFACTION OF THE LAND OWNER AND THE ENGINEER.
3. CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO CONTROL DUST AND DIRT AND THE PREVENT DAMAGE TO CROPS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPACTS TO CROPS. CONTRACTOR SHALL BE AWARE OF POTENTIAL FOR CROP SPRAYING IN THE AREA AND TAKE ALL NECESSARY WORKER SAFETY PRECAUTIONS WHEN SUCH WORK OCCURS.
4. CONTRACTOR SHALL PERFORM ALL WORK IN STATE RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF THE ENCROACHMENT PERMIT AND THE REQUIREMENTS OF THE STATE INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY PAVEMENT DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE STATE AND THE ENGINEER. CONTRACTOR SHALL CLEAN THE PAVEMENT AT THE END OF EACH WORK DAY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL, SIGNAGE, & APPURTENANCES.
5. CONTRACTOR SHALL REPAIR ALL PRIVATE DRIVE APPROACHES AND LANDSCAPE AREAS IN KIND AND TO THE SATISFACTION OF THE LAND OWNERS AND THE ENGINEER.
6. ALL ABOVE GRADE APPURTENANCES (i.e. ARVs, FIRE HYDRANTS, ETC.) SHALL BE FIELD LOCATED OUTSIDE OF TRAVEL WAYS AND FARMING OPERATIONS AS APPROVED BY THE ENGINEER.
7. ALL PVC PIPE 12-INCHES OR LESS SHALL BE IN ACCORDANCE WITH AWWA C900 DR 18 PRESSURE CLASS 235 OR DR 14 WHEN SPECIFIED. ALL FITTINGS FOR PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C110.
8. EACH JOINT IN AND OUT OF ALL FITTINGS SHALL BE RESTRAINED AND A THRUST BLOCK INSTALLED IN ACCORDANCE WITH ACSD STANDARDS AND THE DETAIL HEREIN.
9. CONTRACTOR SHALL RESTORE STATE RIGHT-OF-WAY TO ORIGINAL LINES AND GRADES, SLOPES, AGGREGATE BASE, ASPHALT PAVEMENT, AND CONCRETE AS SHOWN HEREON AND OUTLINED IN THE CONTRACT DOCUMENTS.

SPECIAL NOTE:

CONTRACTOR WILL BE WORKING WITHIN THE VICINITY OF OVERHEAD POWER LINES AND UNDERGROUND OIL/GAS LINES. THE APPROPRIATE SAFETY PRECAUTIONS MUST BE TAKEN IN THE VICINITY OF THESE HAZARDS.



SITE PLAN
SCALE: 1" = 15'

PARCEL 426-400-06
RECORD OF SURVEY MAP NO. 153
BOOK 24, KERN CO. RECORDER
PRINCE DAVID LAWRANCE
APN 426-400-06

REVISION	BY

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
881 WEST MORTON AVENUE PORTERVILLE, CA 93257
PHONE 559 781-0102
FAX 559 781-0160
3701 PEGASUS DRIVE, SUITE 121 BAKERSFIELD, CALIFORNIA 93308
PHONE 661 393-4799
FAX 661 393-4799

WELL NO. 1 SITE PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	76
OF	86 SHEETS

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

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Call before you dig.

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THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, SINCE THE LOCATIONS AND DESCRIPTIONS WERE NOT ALL OBTAINED FROM ACTUAL FIELD SURVEYS, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS. THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE.

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NOTES:

1. CONTRACTOR SHALL PERFORM A U.S.A. LOCATE PRIOR TO COMMENCING CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AT ALL TIMES.
3. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE SITE PRIOR TO COMMENCING CONSTRUCTION. ALL MATERIAL GENERATED BY CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.
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5. CONTRACTOR SHALL OVER-EXCAVATE AND RE-COMPACT TO 90% RELATIVE COMPACTION TO A DEPTH OF 18-INCHES BENEATH AND 5-FT BEYOND ALL CONCRETE FOUNDATIONS.

LEGEND

x 2630.14 GRD	EXISTING GROUND SURFACE ELEVATION
2631.00	EXISTING GROUND SURFACE CONTOUR
FG	DESIGN FINISH GRADE
FL	DESIGN FLOWLINE
———	DRAINAGE SWALE

ESTIMATED EARTHWORK QUANTITIES:

±153 CY "NEAT LINE" CUT
±6 CY "NEAT LINE" FILL

CONTRACTOR SHALL PERFORM THEIR OWN EARTHWORK QUANTITIES CALCULATION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY PRIOR TO BID TIME. EARTHWORK QUANTITIES WILL NOT BE ADJUSTED AFTER RECEIPT OF BIDS AND CONTRACTOR WILL BE PAID A LUMP SUM TO GRADE THE SITE TO CONFORM TO THESE CONTRACT DOCUMENTS.

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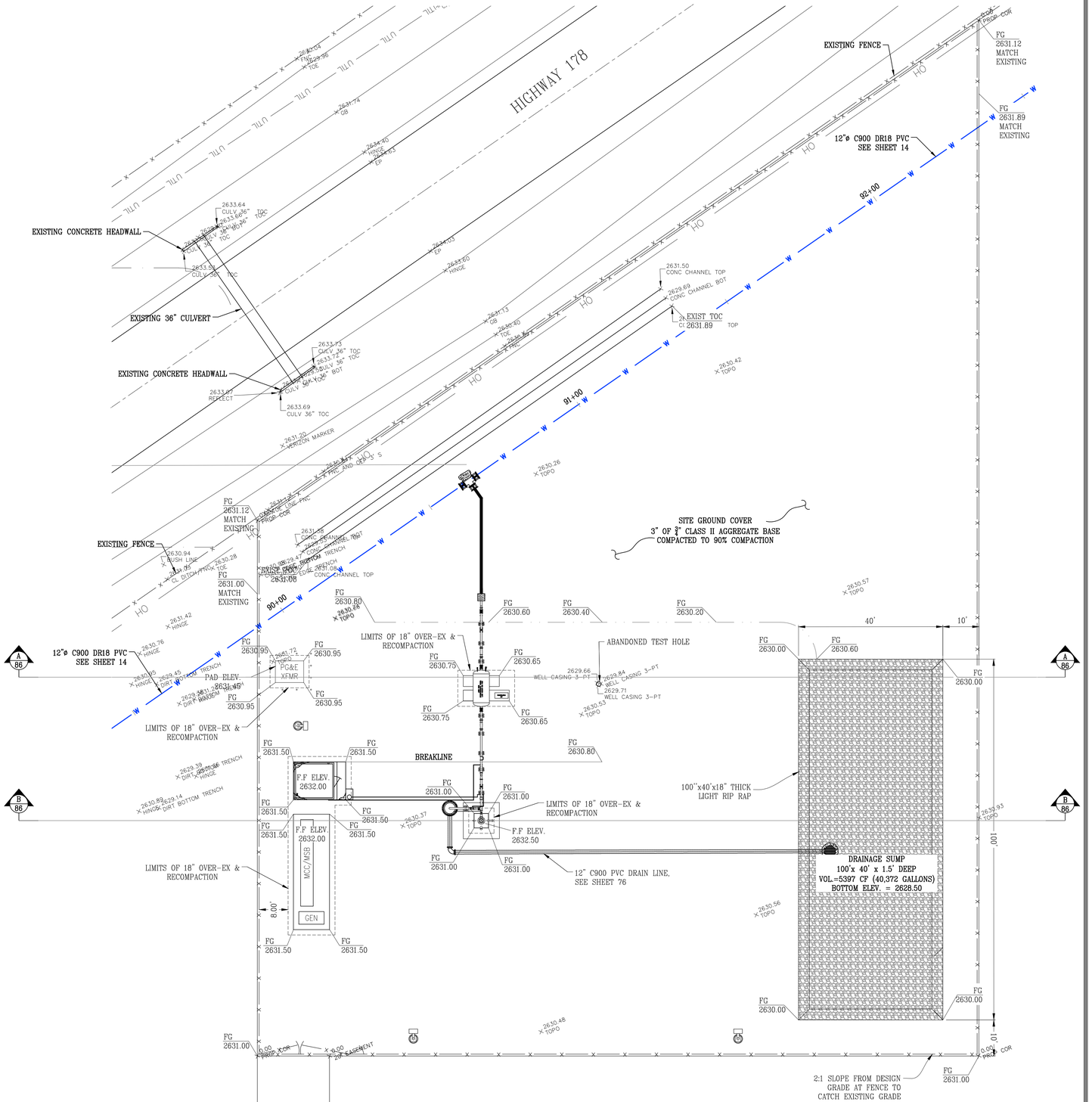

GRADING PLAN
SCALE: 1" = 15'

REVISION	BY

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
PHONE 559 781-0102
FAX 559 781-0160
881 WEST MORTON AVENUE
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3701 PEGASUS DRIVE, SUITE 121
BAKERSFIELD, CALIFORNIA 93308
PHONE 661 393-4796
FAX 661 393-4799

WELL NO. 1 GRADING PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	77
OF	86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\77. WELL #1 GRADING PLAN.DWG 8/28/2017 12:01 PM

REVISION	BY

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
5701 PEGASUS DRIVE, SUITE 204
BAKERSFIELD, CALIFORNIA 93308
PHONE 805 393-5738
FAX 805 393-4788

WELL NO. 1 WELL CROSS SECTION

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

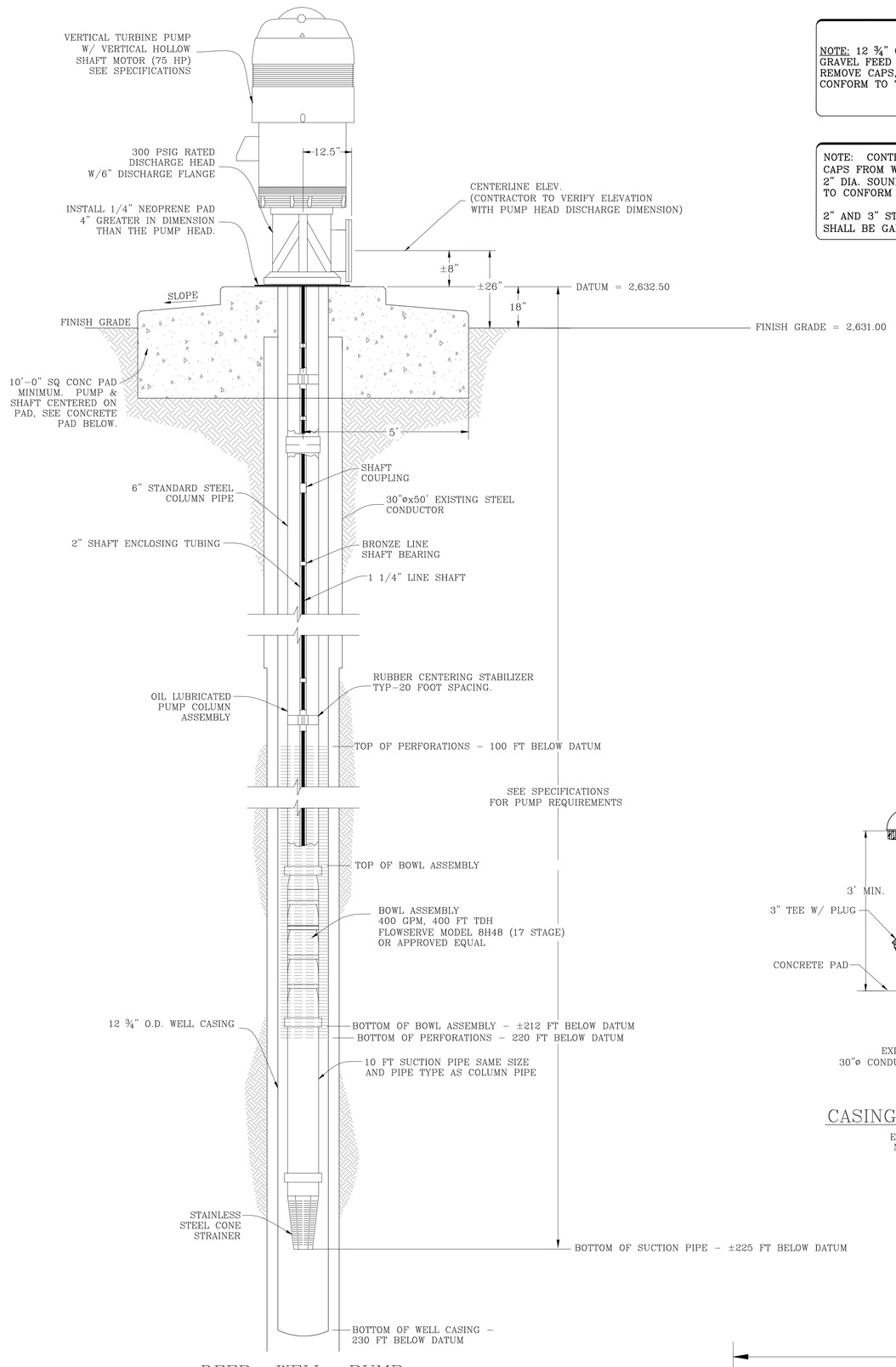
DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	NONE
FILE	
JOB NO.	
SHEET	78
OF	86 SHEETS

NOTE: 12 ¾" O.D. CASING, 2" SOUNDING TUBE, & 3" GRAVEL FEED TUBE ARE CAPPED. THE CONTRACTOR SHALL REMOVE CAPS, CUT, EXTEND AND PLUMB EXISTING PIPES TO CONFORM TO THIS PLAN.

NOTE: CONTRACTOR SHALL REMOVE EXISTING WELDED CAPS FROM WELL CASING, 3" DIA. GRAVEL TUBE, AND 2" DIA. SOUNDING TUBE AND EXTEND PIPES OR CUT PIPES TO CONFORM TO THESE PLANS AND SPECIFICATIONS.

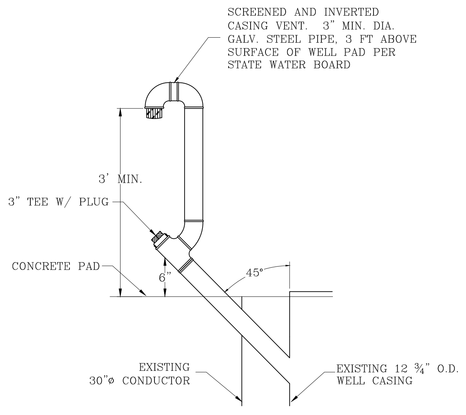
2" AND 3" STEEL PIPE EXTENSIONS AND CAPS SHALL BE GALVANIZED STEEL (TYP.)

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE



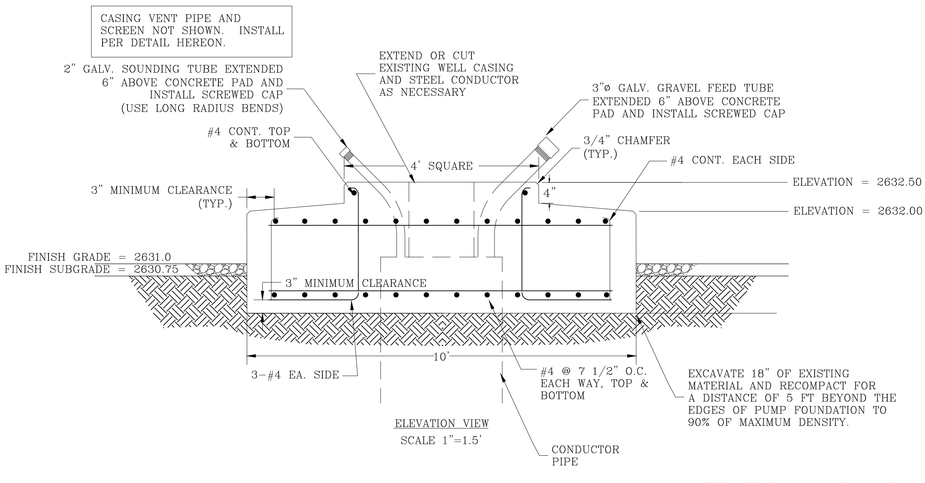
DEEP WELL PUMP

ELEVATION VIEW
NOT TO SCALE

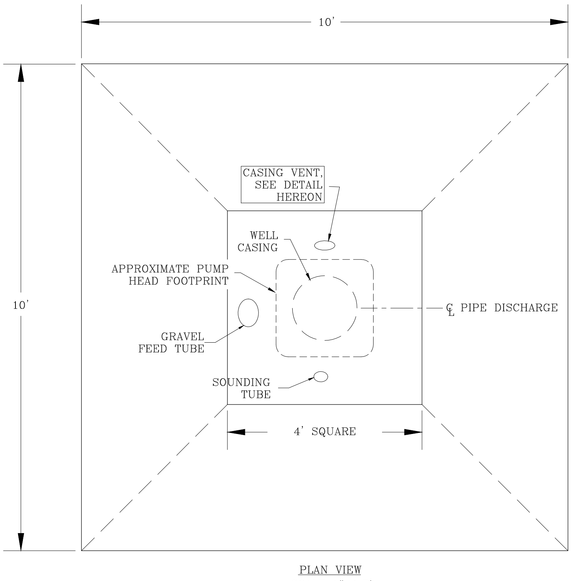


CASING VENT DETAIL

ELEVATION VIEW
NOT TO SCALE



ELEVATION VIEW
SCALE 1"=1.5'



PLAN VIEW
SCALE 1"=1.5'

CONCRETE PUMP FOUNDATION

NORTH

WELL NO. 1 WELL PUMP & MOTOR

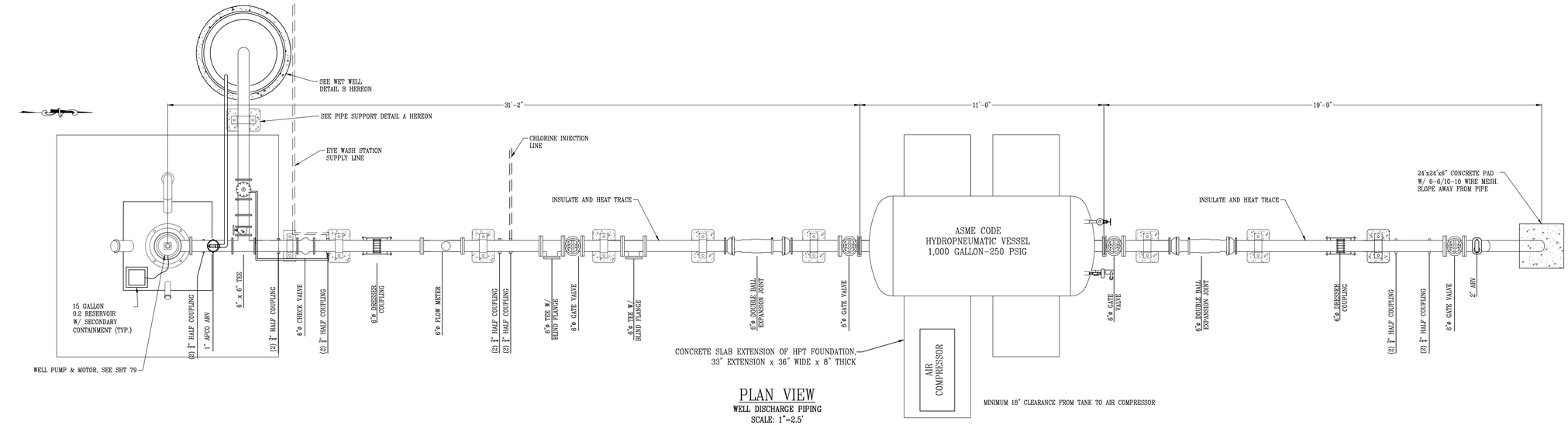
WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

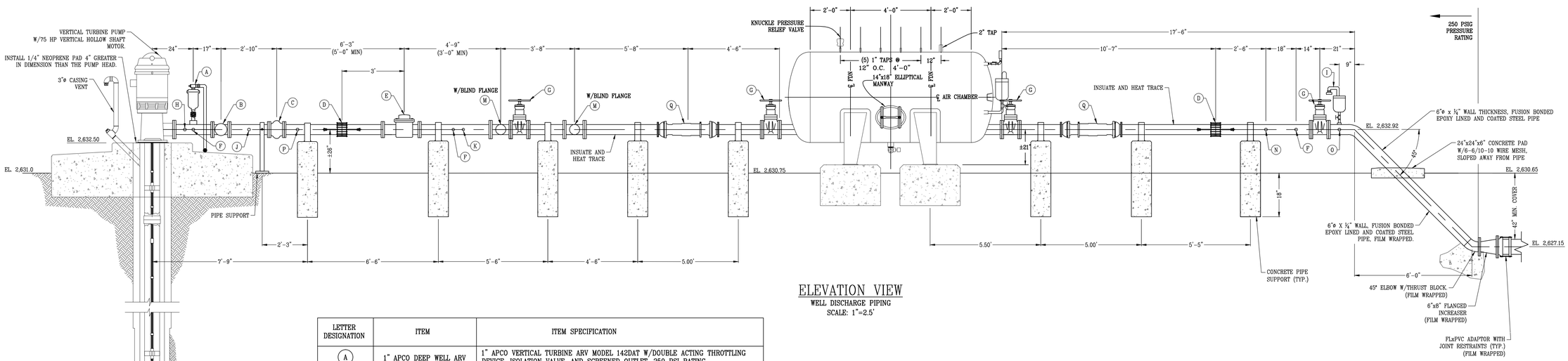
DEE JASPAR & ASSOCIATES, INC.
CIVIL • ENGINEERS
3701 PEGASUS DRIVE, SUITE 121
BAKERSFIELD, CALIFORNIA 93308
PHONE 661 393-4796
FAX 661 393-4799

DRAWN	JLT
CHECKED	CMS
DATE	JAN 2017
SCALE	1"=1.5'
FILE	
JOB NO.	
SHEET	67
OF SHEETS	86

REVISION | BY

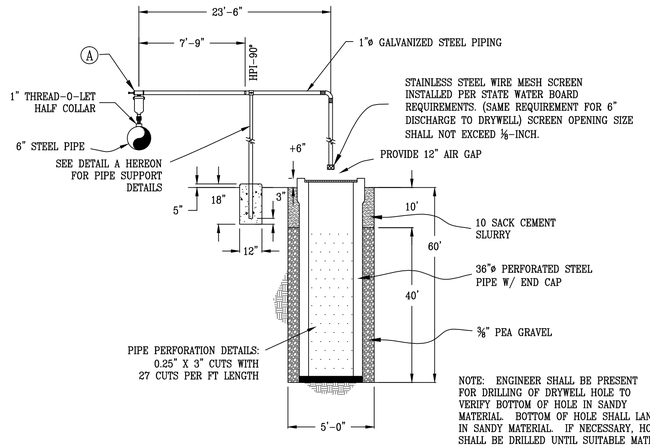


PLAN VIEW
WELL DISCHARGE PIPING
SCALE: 1"=2.5'



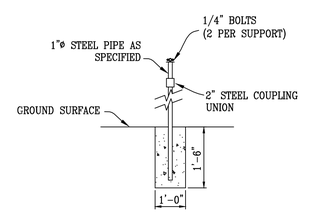
ELEVATION VIEW
WELL DISCHARGE PIPING
SCALE: 1"=2.5'

LETTER DESIGNATION	ITEM	ITEM SPECIFICATION
A	1" APCO DEEP WELL ARV	1" APCO VERTICAL TURBINE ARV MODEL 142DAT W/DOUBLE ACTING THROTTLING DEVICE, ISOLATION VALVE, AND SCREENED OUTLET, 250 PSI RATING
B	6"x6"x6" TEE	6"x6"x6" FUSION BONDED EPOXY LINED & COATED STEEL TEE WITH 6" GATE VALVE, 6" PUMP CONTROL VALVE, AND PIPING TO DRY WELL
C	CHECK VALVE	6" CHECK VALVE, APCO SERIES 600, GLOBE STYLE, 300 LB A.S.A. PRESSURE CLASS
D	DRESSER COUPLING W/ JOINT HARNESSES	STYLE 38 DRESSER COUPLING FOR STEEL PIPE, W/AWWA M11 JOINT HARNESSES, 300 PSI RATING
E	6" FLOW METER	300 PSI FLANGED WATER SPECIALTIES ML-04 FLOW METER W/ 4-20 mA ANALOG OUTPUT SIGNAL W/ LOW VELOCITY CONSTRUCTION
F	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/ PLUG ON BOTH SIDES
G	6" GATE VALVE	6" AWWA C504 FLANGED GATE VALVE W/8" HANDWHEEL OPERATOR, 300 PSI RATING
H	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/HIGH PRESSURE SWITCH THIS SIDE, 0-300 PSI PRESSURE GAUGE OTHER SIDE.
I	2" COMBINATION ARV	2" APCO COMBINATION AIR RELEASE VALVE MODEL 145C W/ISOLATION VALVE, SCREENED OUTLET (130 PSI OPERATING PRESSURE), 250 PSI RATING
J	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/PRESSURE GAUGE (0-160 PSI) THIS SIDE, SAMPLE PORT OTHER SIDE.
K	¾" HALF COLLARS	1"" THREAD-O-LET COUPLINGS W/PLUG THIS SIDE, CHLORINE INJECTION OTHER SIDE.
L	15 GAL. OIL RESERVOIR	FURNISH AND INSTALL A 15 GALLON OIL RESERVOIR WITH GALVANIZED SECONDARY CONTAINMENT PAN, SOLENOID VALVE, SIGHT GLASS TUBE FOR DRIP LINE, AND ISOLATION VALVE. OIL RESERVOIR STAND HEIGHT SHALL BE SUITABLE FOR PUMP LUBRICATION
M	6"x6"x6" TEE	6"x6"x6" FUSION BONDED EPOXY LINED & COATED STEEL TEE WITH 6" BLIND FLANGE
N	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/HOSE BIB THIS SIDE, SAMPLE PORT OTHER SIDE.
O	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/PRESSURE GAUGE (0-150 PSI) THIS SIDE, PRESSURE TRANSMITTER OTHER SIDE.
P	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/WATER SUPPLY TO CLA-VAL THIS SIDE, WATER SUPPLY TO EYEWASH OTHER SIDE.
Q	FLEXIBLE EXPANSION JOINT	6" FLEX-TEND FLEXIBLE EXPANSION JOINT, DOUBLE BALL, FLANGE BY FLANGE WITH A LAY LENGTH OF 36.05".



DETAIL B
WET WELL ELEVATION VIEW
NOT TO SCALE

NOTE: ENGINEER SHALL BE PRESENT FOR DRILLING OF DRYWELL HOLE TO VERIFY BOTTOM OF HOLE IN SANDY MATERIAL. BOTTOM OF HOLE SHALL LAND IN SANDY MATERIAL. IF NECESSARY, HOLE SHALL BE DRILLED UNTIL SUITABLE MATERIAL FOR LANDING IS ENCOUNTERED AS DETERMINED BY THE ENGINEER.



DETAIL A
PIPE SUPPORT
NOT TO SCALE

NOTE:

1. ALL UNDERGROUND BOLTS SHALL BE ASTM A325, GRADE 5, HIGH STRENGTH, LOW ALLOY BOLTS
2. CONTRACTOR TO INSULATE AND HEAT TRACE WELL DISCHARGE PIPING.

REVISION	BY

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
881 WEST MORTON AVENUE PORTERVILLE, CALIFORNIA 93257 PHONE 559 781-0102 FAX 559 781-0160
3701 PEGASUS DRIVE, SUITE 101 BAKERSFIELD, CALIFORNIA 93308 PHONE 661 393-4799 FAX 661 393-4799

WELL NO. 1 DISCHARGE PIPING

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	MAR2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	80
OF	86 SHEETS

NORTH

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

NOTES:

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DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF CALIFORNIA

811
Know what's below.
Call before you dig.

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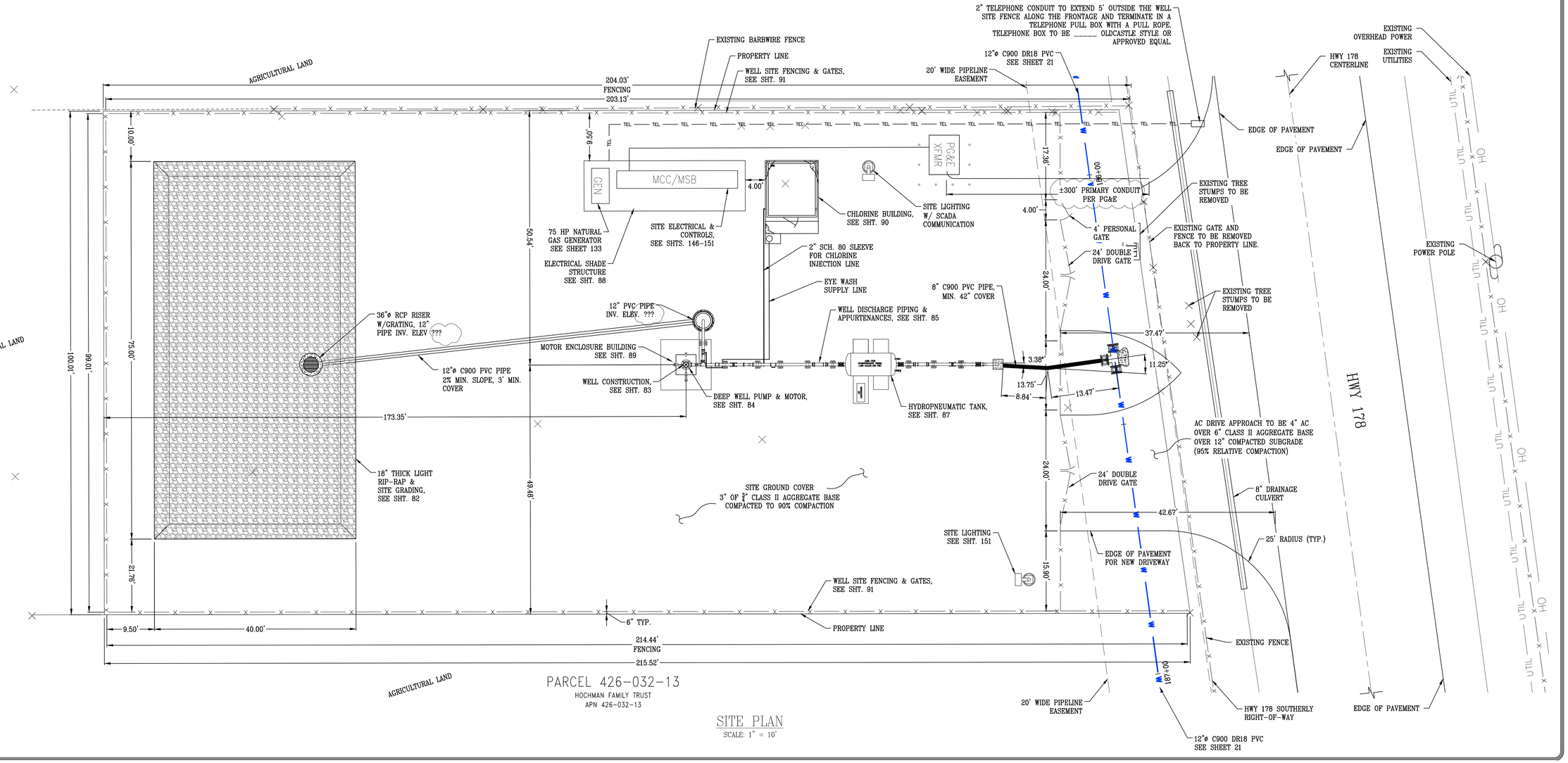
NOTES:

1. CONTRACTOR SHALL POTHOLE AND EXPOSE EXISTING UNDERGROUND FACILITIES PRIOR TO COMMENCING PIPE TRENCHING AND SHALL PREVENT DAMAGE TO SAID FACILITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SIGNS, POSTS, BOLLARDS, MAILBOXES ETC. ALONG THE PIPELINE ALIGNMENT AND SHALL BE RESPONSIBLE FOR THEIR REPAIR OR REPLACEMENT WHERE IMPACTED. ALL IMPACTED FACILITIES SHALL BE RESTORED BY THE CONTRACTOR TO MATCH EXISTING AND BE TO THE SATISFACTION OF THE LAND OWNER AND THE ENGINEER.
3. CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO CONTROL DUST AND DIRT AND THE PREVENT DAMAGE TO CROPS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPACTS TO CROPS. CONTRACTOR SHALL BE AWARE OF POTENTIAL FOR CROP SPRAYING IN THE AREA AND TAKE ALL NECESSARY WORKER SAFETY PRECAUTIONS WHEN SUCH WORK OCCURS.
4. CONTRACTOR SHALL PERFORM ALL WORK IN COUNTY RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF THE ENCROACHMENT PERMIT AND THE REQUIREMENTS OF THE COUNTY INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY PAVEMENT DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE COUNTY AND THE ENGINEER. CONTRACTOR SHALL CLEAN THE PAVEMENT AT THE END OF EACH WORK DAY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL, SIGNAGE, & APPURTANANCES.
5. CONTRACTOR SHALL REPAIR ALL PRIVATE DRIVE APPROACHES AND LANDSCAPE AREAS IN KIND AND TO THE SATISFACTION OF THE LAND OWNERS AND THE ENGINEER.
6. ALL ABOVE GRADE APPURTENANCES (i.e. ARVs, FIRE HYDRANTS, ETC.) SHALL BE FIELD LOCATED OUTSIDE OF TRAVEL WAYS AND FARMING OPERATIONS AS APPROVED BY THE ENGINEER.
7. ALL PVC PIPE 12-INCHES OR LESS SHALL BE IN ACCORDANCE WITH AWWA C900 DR 18 PRESSURE CLASS 235 OR DR 14 WHEN SPECIFIED. ALL FITTINGS FOR PVC PIPE SHALL BE IN ACCORDANCE WITH AWWA C110.
8. EACH JOINT IN AND OUT OF ALL FITTINGS SHALL BE RESTRAINED AND A THRUST BLOCK INSTALLED IN ACCORDANCE WITH ACSD STANDARDS AND THE DETAIL HEREIN.
9. CONTRACTOR SHALL RESTORE COUNTY RIGHT-OF-WAY TO ORIGINAL LINES AND GRADES, SLOPES, AGGREGATE BASE, ASPHALT PAVEMENT, AND CONCRETE AS SHOWN HEREON AND OUTLINED IN THE CONTRACT DOCUMENTS.



SITE PLAN
SCALE: 1" = 10'

REVISION	BY

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
881 WEST MORTON AVENUE PHONE 559 781-0102
PORTERVILLE, CA 93257 FAX 559 781-0160
3701 PEGASUS DRIVE, SUITE 101 PHONE 661 393-4796
BAKERSFIELD, CALIFORNIA 93308 FAX 661 393-4799

WELL NO. 2 SITE PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	81
OF	86 SHEETS

NORTH

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

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LEGEND

x 2630.14 GRD	EXISTING GROUND SURFACE ELEVATION
2631.00	EXISTING GROUND SURFACE CONTOUR
FG	DESIGN FINISH GRADE
FL	DESIGN FLOWLINE
———	DRAINAGE SWALE

ESTIMATED EARTHWORK QUANTITIES:

±153 CY "NEAT LINE" CUT
±6 CY "NEAT LINE" FILL

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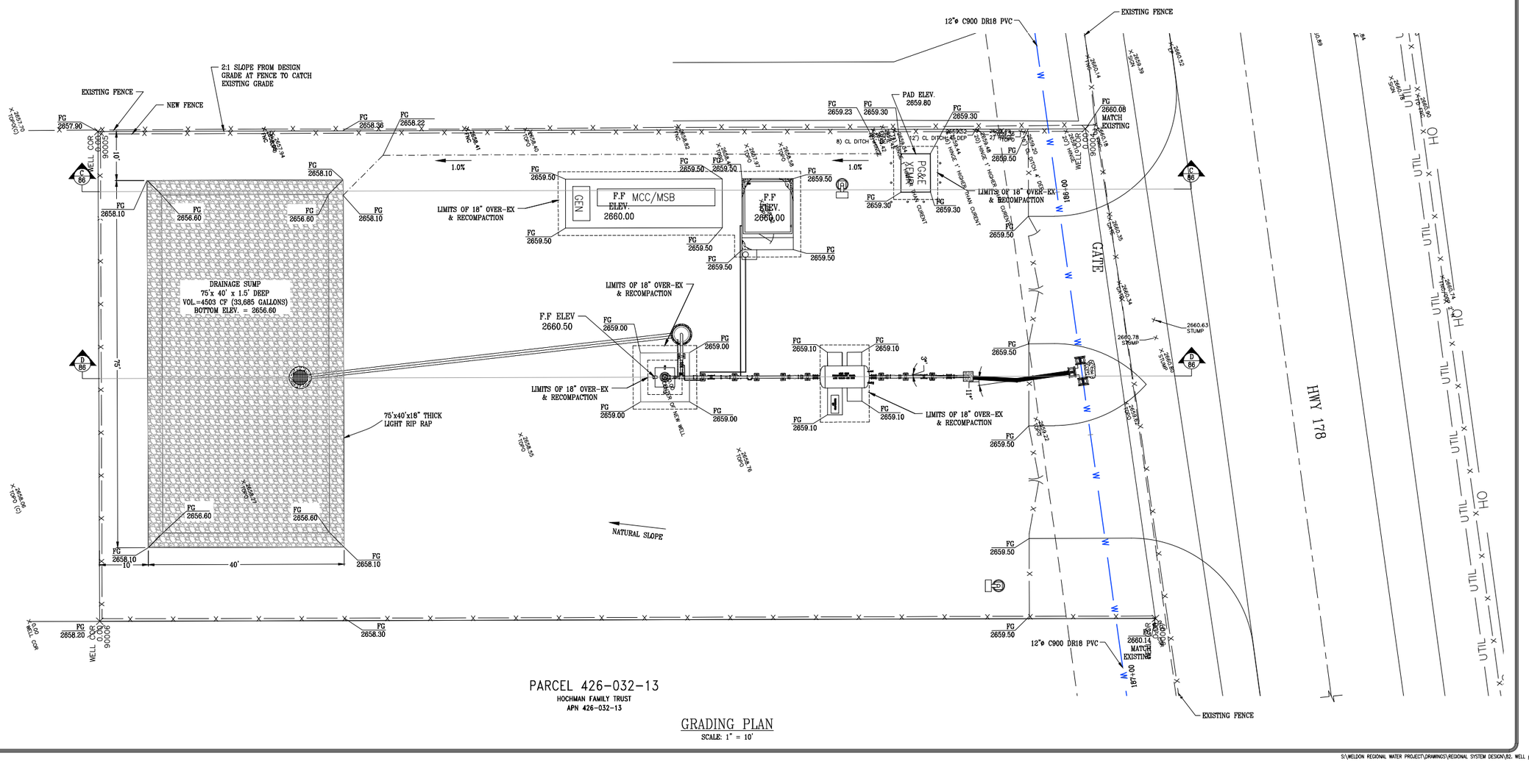

PARCEL 426-032-13
HOCHMAN FAMILY TRUST
APN 426-032-13

GRADING PLAN
SCALE: 1" = 10'

REVISION	BY

DEE JASPAR & ASSOCIATES, INC.
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7030 MINARET AVENUE, SUITE 110 PHONE 559 276-2790
BAKERSFIELD, CALIFORNIA 93308 FAX 661 393-1795

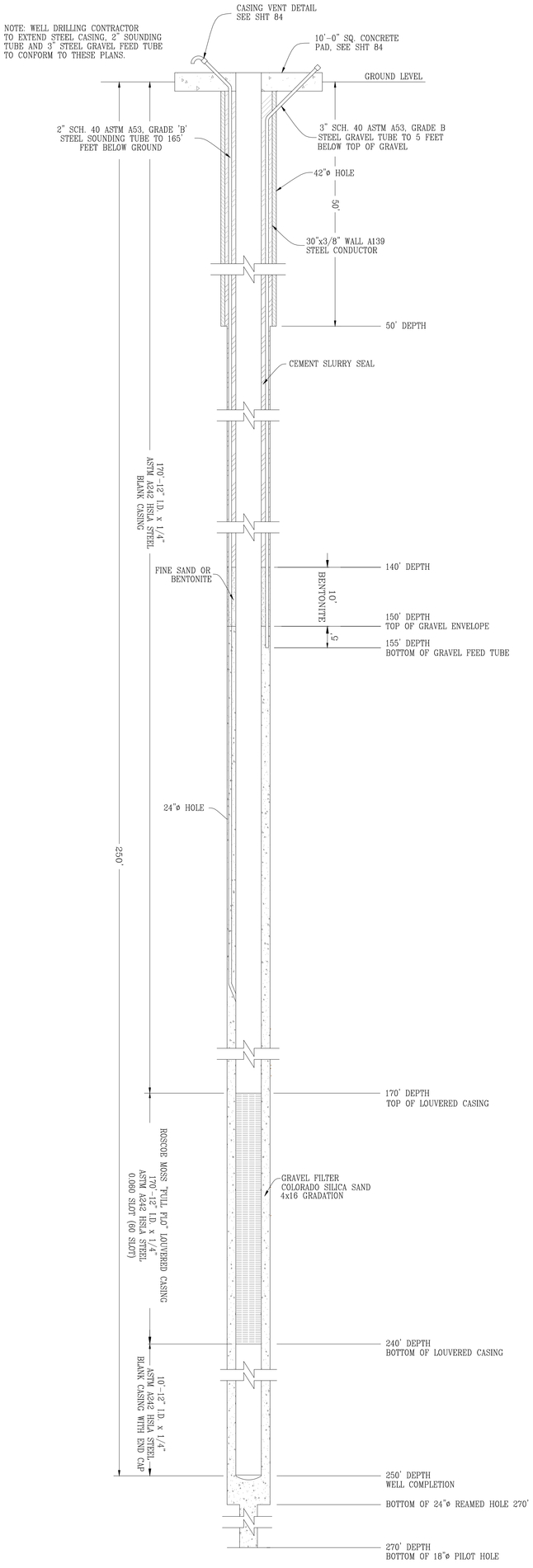
WELL NO. 2 GRADING PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	82
OF	86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\82. WELL #2 GRADING PLAN.DWG 8/25/2017 2:57 PM



S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\83 WELL #2 WELL CROSS SECTION.DWG 8/24/2017 5:11 PM

WELL NO. 2 WELL CROSS SECTION

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DEE JASPAR & ASSOCIATES, INC.
CIVIL • ENGINEERS
3701 PEGASUS DRIVE, SUITE 121
BAKERSFIELD, CALIFORNIA 93308
PHONE 805 393-4736
FAX 805 393-4799

REVISION	BY

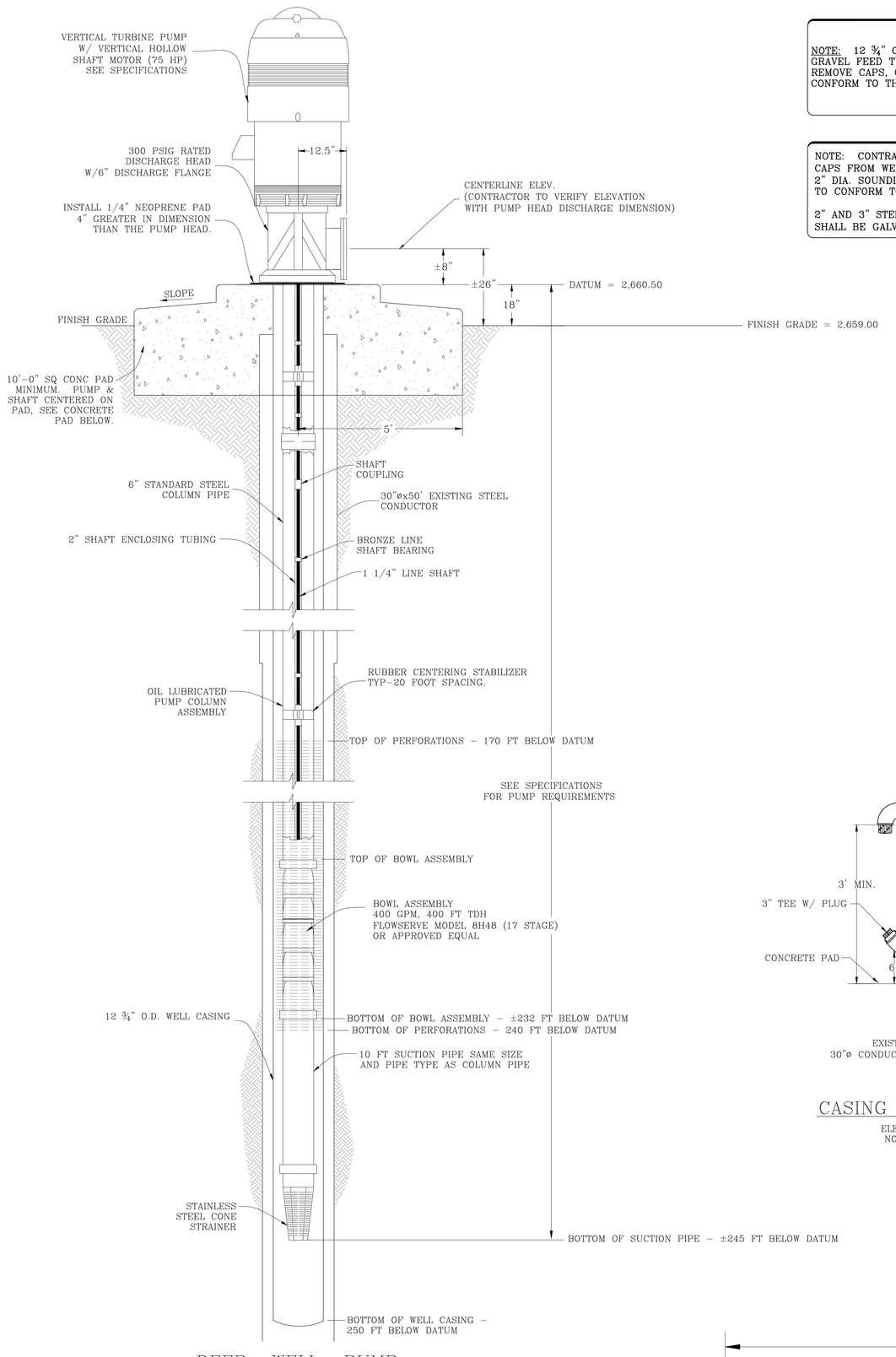
DRAWN JLT
CHECKED CMS
DATE JAN2017
SCALE NONE
FILE
JOB NO.
SHEET 83
OF 86 SHEETS

NOTE: 12 ¾" O.D. CASING, 2" SOUNDING TUBE, & 3" GRAVEL FEED TUBE ARE CAPPED. THE CONTRACTOR SHALL REMOVE CAPS, CUT, EXTEND AND PLUMB EXISTING PIPES TO CONFORM TO THIS PLAN.

NOTE: CONTRACTOR SHALL REMOVE EXISTING WELDED CAPS FROM WELL CASING, 3" DIA. GRAVEL TUBE, AND 2" DIA. SOUNDING TUBE AND EXTEND PIPES OR CUT PIPES TO CONFORM TO THESE PLANS AND SPECIFICATIONS.

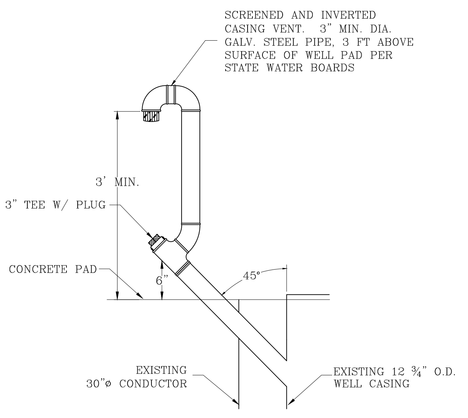
2" AND 3" STEEL PIPE EXTENSIONS AND CAPS SHALL BE GALVANIZED STEEL (TYP.)

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE



DEEP WELL PUMP

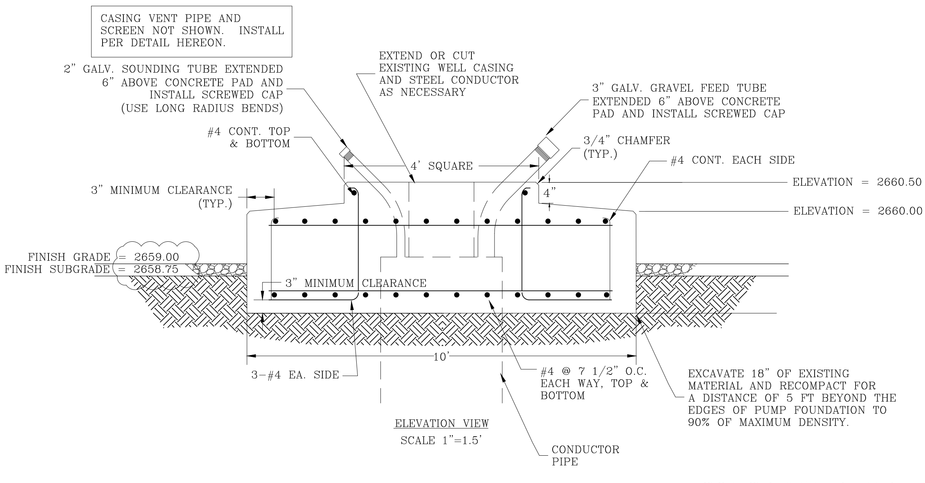
ELEVATION VIEW
NOT TO SCALE



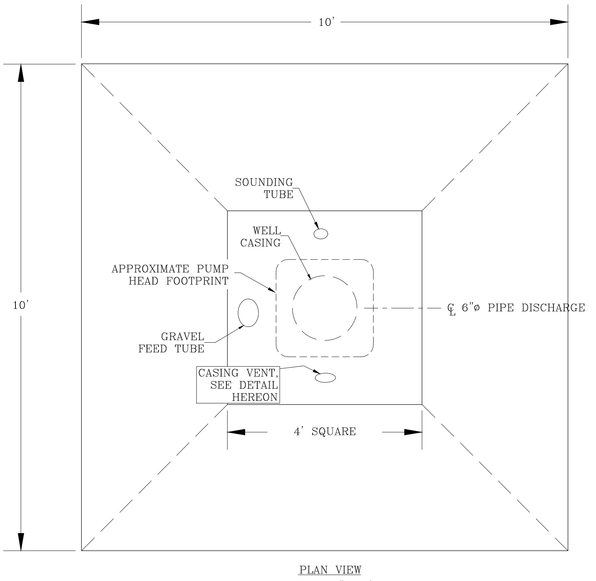
CASING VENT DETAIL

ELEVATION VIEW
NOT TO SCALE

CASING VENT PIPE AND SCREEN NOT SHOWN. INSTALL PER DETAIL HEREON.



ELEVATION VIEW
SCALE 1"=1.5'



PLAN VIEW
SCALE 1"=1.5'

CONCRETE PUMP FOUNDATION

NORTH

WELL NO. 2 WELL PUMP & MOTOR

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DEE JASPAR & ASSOCIATES, INC.
CIVIL • ENGINEERS
3701 PEGASUS DRIVE, SUITE 121
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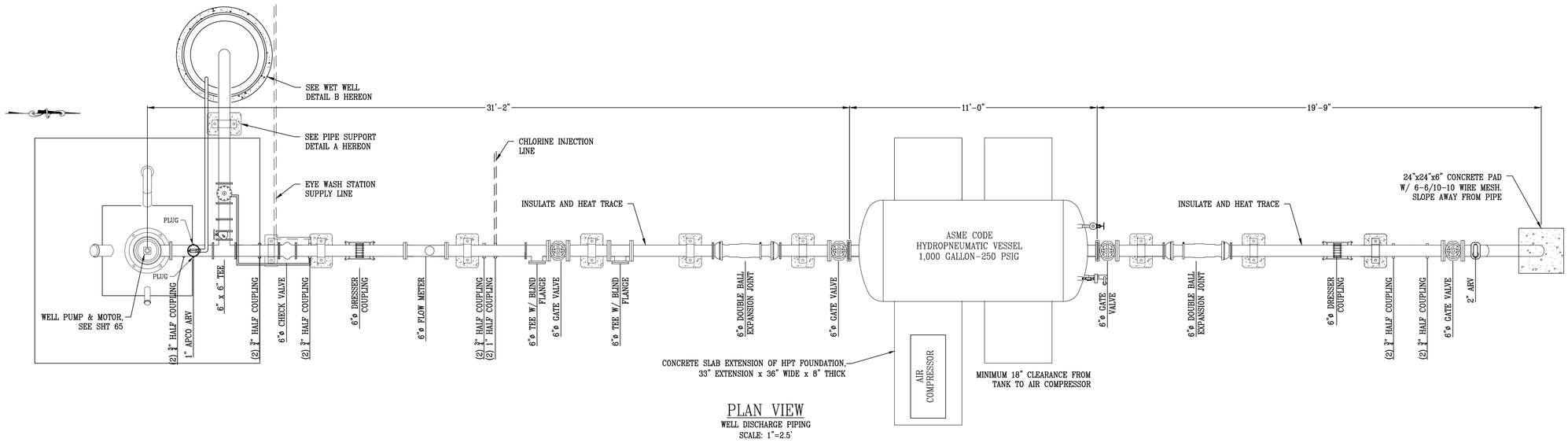
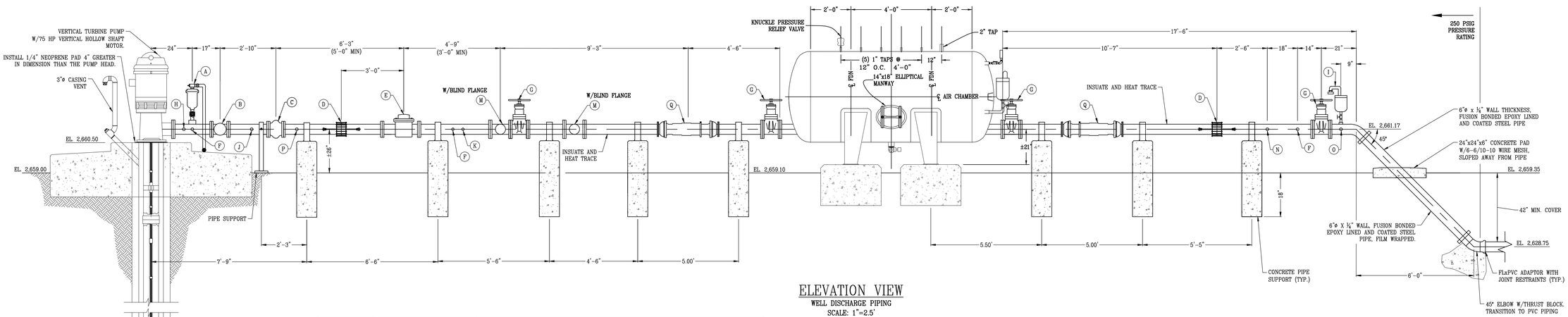
PHONE 661 393-4796
FAX 661 393-4799

REVISION	BY

DRAWN JLT
CHECKED
DWG NAME CWS
SCALE 1"=1.5'
DATE JAN 2017
FILE
JOB NO.
SHEET 84
OF 86 SHEETS

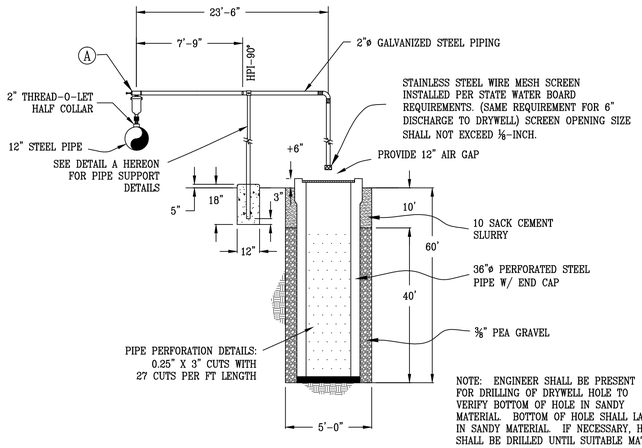


PLAN VIEW
WELL DISCHARGE PIPING
SCALE: 1"=2.5'

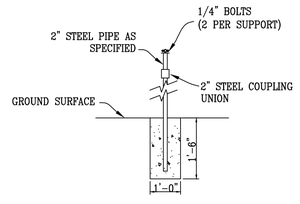


ELEVATION VIEW
WELL DISCHARGE PIPING
SCALE: 1"=2.5'

LETTER DESIGNATION	ITEM	ITEM SPECIFICATION
A	1" APCO DEEP WELL ARV	1" APCO VERTICAL TURBINE ARV MODEL 142DAT W/DOUBLE ACTING THROTTLING DEVICE, ISOLATION VALVE, AND SCREENED OUTLET, 250 PSI RATING
B	6"x6"x6" TEE	6"x6"x6" FUSION BONDED EPOXY LINED & COATED STEEL TEE WITH 6" GATE VALVE, 6" PUMP CONTROL VALVE, AND PIPING TO DRY WELL
C	CHECK VALVE	6" CHECK VALVE, APCO SERIES 600, GLOBE STYLE, 300 LB A.S.A. PRESSURE CLASS
D	DRESSER COUPLING W/ JOINT HARNESSES	STYLE 38 DRESSER COUPLING FOR STEEL PIPE, W/AWWA M11 JOINT HARNESSES, 300 PSI RATING
E	6" FLOW METER	300 PSI FLANGED WATER SPECIALTIES ML-04 FLOW METER W/ 4-20 mA ANALOG OUTPUT SIGNAL W/ LOW VELOCITY CONSTRUCTION
F	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/ PLUG ON BOTH SIDES
G	6" GATE VALVE	6" AWWA C504 FLANGED GATE VALVE W/8" HANDWHEEL OPERATOR, 300 PSI RATING
H	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/HIGH PRESSURE SWITCH THIS SIDE, 0-300 PSI PRESSURE GAUGE OTHER SIDE.
I	2" COMBINATION ARV	2" APCO COMBINATION AIR RELEASE VALVE MODEL 145C W/ISOLATION VALVE, SCREENED OUTLET (130 PSI OPERATING PRESSURE), 250 PSI RATING
J	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/PRESSURE GAUGE (0-160 PSI) THIS SIDE, SAMPLE PORT OTHER SIDE.
K	1" HALF COLLARS	1"" THREAD-O-LET COUPLINGS W/PLUG THIS SIDE, CHLORINE INJECTION OTHER SIDE.
L	15 GAL. OIL RESERVOIR	FURNISH AND INSTALL A 15 GALLON OIL RESERVOIR WITH GALVANIZED SECONDARY CONTAINMENT PAN, SOLENOID VALVE, SIGHT GLASS TUBE FOR DRIP LINE, AND ISOLATION VALVE. OIL RESERVOIR STAND HEIGHT SHALL BE SUITABLE FOR PUMP LUBRICATION
M	6"x6"x6" TEE	6"x6"x6" FUSION BONDED EPOXY LINED & COATED STEEL TEE WITH 6" BLIND FLANGE
N	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/HOSE BIB THIS SIDE, SAMPLE PORT OTHER SIDE.
O	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/PRESSURE GAUGE (0-150 PSI) THIS SIDE, PRESSURE TRANSMITTER OTHER SIDE.
P	¾" HALF COLLARS	¾" THREAD-O-LET COUPLINGS W/WATER SUPPLY TO CLA-VAL THIS SIDE, WATER SUPPLY TO EYEWASH OTHER SIDE.
Q	FLEXIBLE EXPANSION JOINT	6" FLEX-TEND FLEXIBLE EXPANSION JOINT, DOUBLE BALL, FLANGE BY FLANGE WITH A LAY LENGTH OF 36.05".



DETAIL B
WET WELL ELEVATION VIEW
NOT TO SCALE



DETAIL A
PIPE SUPPORT
NOT TO SCALE

NOTE:

1. ALL UNDERGROUND BOLTS SHALL BE ASTM A325, GRADE 5, HIGH STRENGTH, LOW ALLOY BOLTS
2. CONTRACTOR TO INSULATE AND HEAT TRACE WELL DISCHARGE PIPING.

REVISION	BY

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PHONE 661 393-4799
FAX 661 393-4799

WELL NO. 2 DISCHARGE PIPING

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	MAR2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	85
OF	86 SHEETS

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF CALIFORNIA

811
Know what's below.
Call before you dig.

NOTE:

THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, SINCE THE LOCATIONS AND DESCRIPTIONS WERE NOT ALL OBTAINED FROM ACTUAL FIELD SURVEYS, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS. THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE.

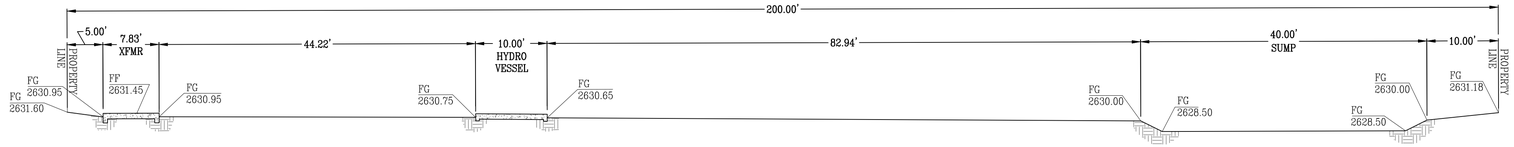
IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL(S) HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL(S).

NOTES:

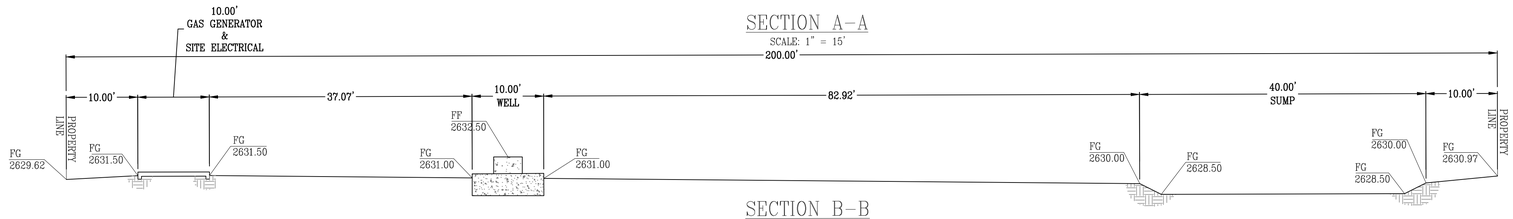
1. CONTRACTOR SHALL PERFORM A U.S.A. LOCATE PRIOR TO COMMENCING CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AT ALL TIMES.
3. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE SITE PRIOR TO COMMENCING CONSTRUCTION. ALL MATERIAL GENERATED BY CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.
4. AREAS TO RECEIVE FILL SHALL BE SCARIFIED 8-INCHES, MOISTURE CONDITIONED, AND RE-COMPACTED TO 90% RELATIVE COMPACTION.
5. CONTRACTOR SHALL OVER-EXCAVATE AND RE-COMPACT TO 90% RELATIVE COMPACTION TO A DEPTH OF 18-INCHES BENEATH AND 5-FT BEYOND ALL CONCRETE FOUNDATIONS.

LEGEND

x 2630.14 GRD	EXISTING GROUND SURFACE ELEVATION
2631.00	EXISTING GROUND SURFACE CONTOUR
FG	DESIGN FINISH GRADE
FL	DESIGN FLOWLINE
———	DRAINAGE SWALE

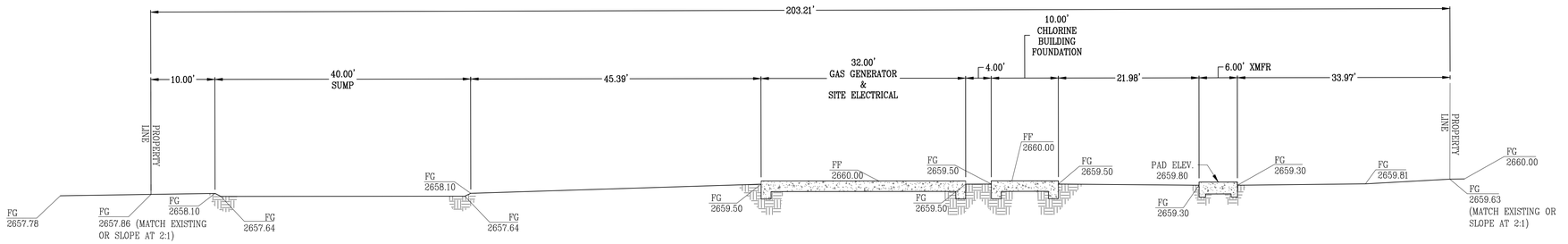


SECTION A-A
SCALE: 1" = 15'

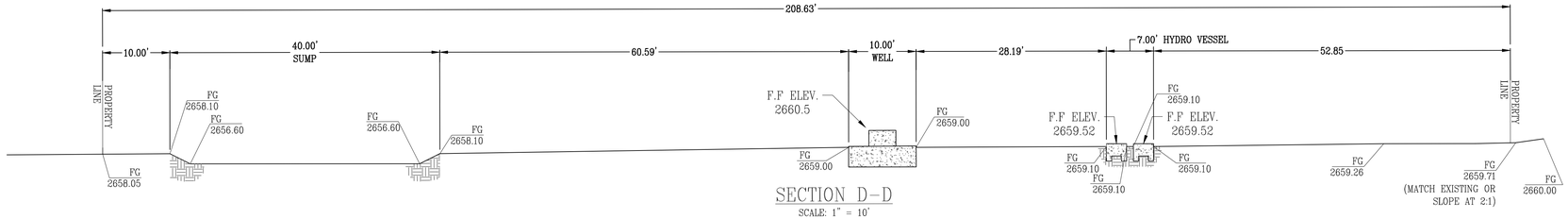


SECTION B-B
SCALE: 1" = 15'

WELL NO. 1 SECTIONS
SEE SHEET 77



SECTION C-C
SCALE: 1" = 10'



SECTION D-D
SCALE: 1" = 10'

WELL NO. 2 SECTIONS
SEE SHEET 82

REVISION	BY

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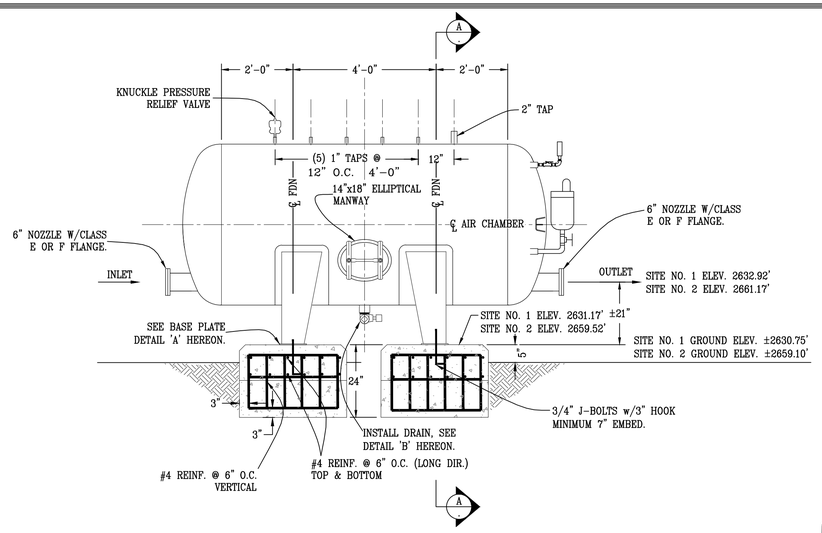
3701 PEGASUS DRIVE, SUITE 121
FAX 661 393-4799
BAKERSFIELD, CALIFORNIA 93308

WELL NO. 1 AND NO. 2 SECTIONS

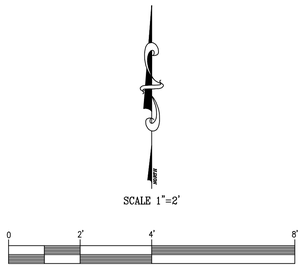
WELDON REGIONAL WATER SYSTEM

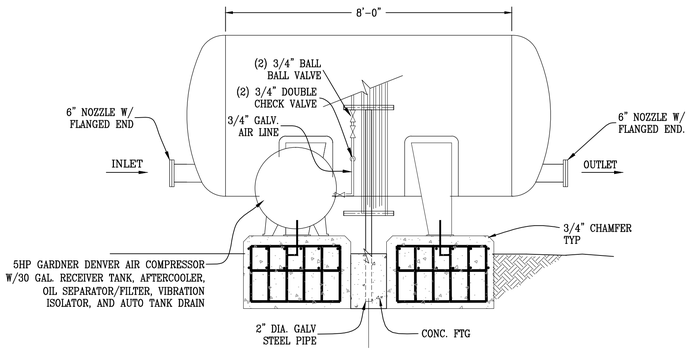
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	AUG2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	86
OF	86 SHEETS



ELEVATION VIEW
AIR CHAMBER DETAIL
SCALE: 1"=2'

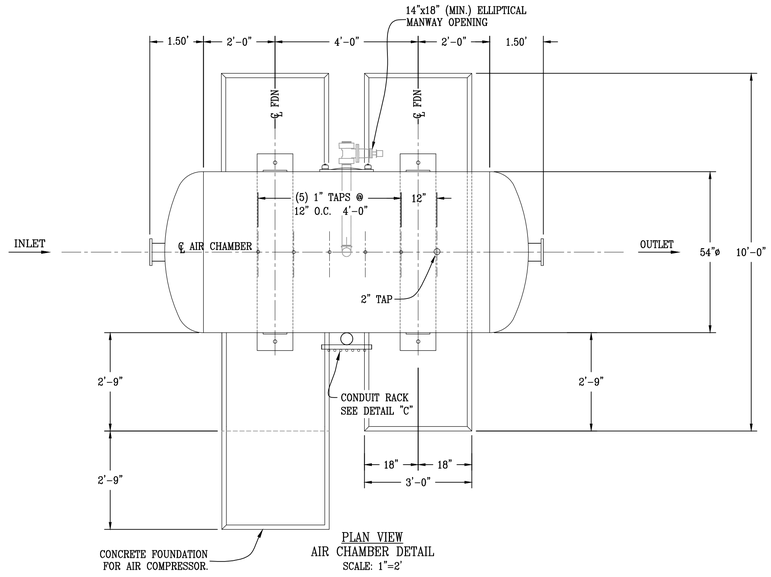




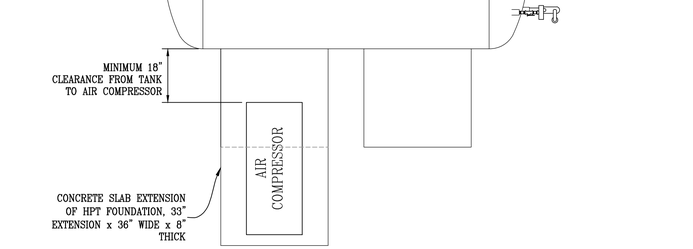
ELEVATION VIEW
AIR COMPRESSOR DETAIL
SCALE: 1"=2'

ALL CONCRETE SHALL BE 3000 psi MINIMUM COMPRESSIVE STRENGTH.
ALL STEEL REINFORCEMENT SHALL BE DEFORMED ACCORDING TO ACI 318 AND SHALL BE 60 ksi MINIMUM YIELD STRENGTH.

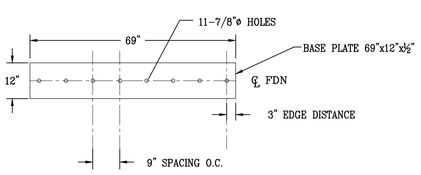
HYDROPNEUMATIC VESSEL SHALL BE FUSION BONDED EPOXY LINED.
THE EXTERIOR OF THE VESSEL SHALL BE SHOP PRIMED. THE VESSEL SHALL BE PAINTED PER THE CONTRACT SPECIFICATIONS.



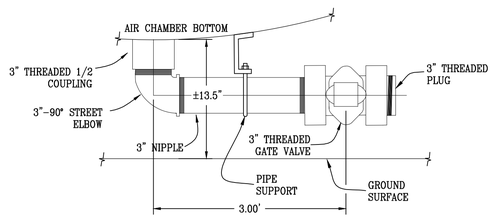
PLAN VIEW
AIR CHAMBER DETAIL
SCALE: 1"=2'



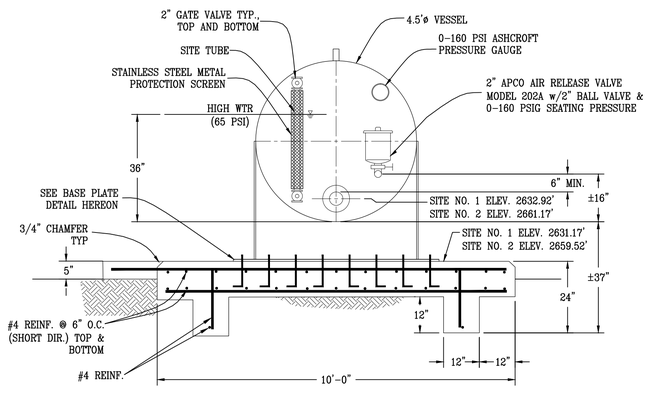
PLAN VIEW
AIR COMPRESSOR DETAIL
SCALE: 1"=2'



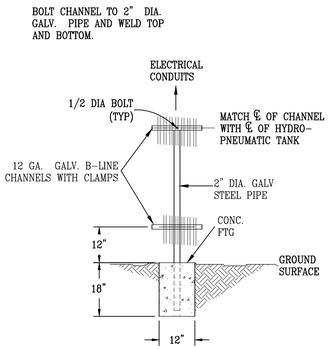
DETAIL A
BASE PLATE DETAIL
SCALE: 1"=2'



DETAIL B
AIR CHAMBER DRAIN
NOT TO SCALE



SECTION A-A
AIR CHAMBER
SCALE: 1"=2'



DETAIL C
AIR CONDUIT RACK
SCALE: 1"=2'

REVISION	BY

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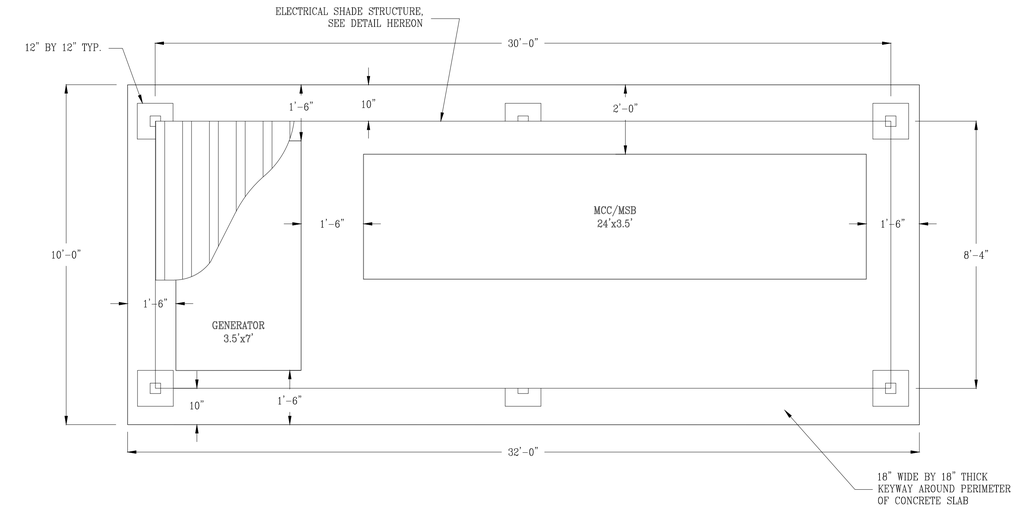
HYDROPNEUMATIC TANK

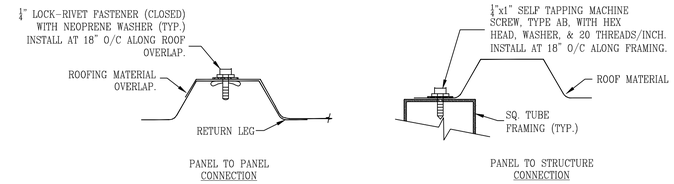
WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

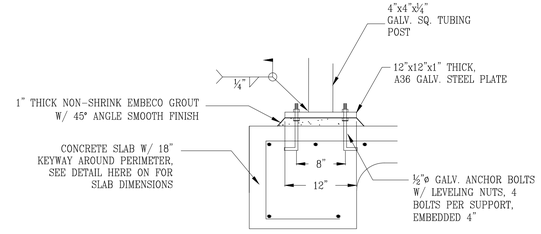
DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	87
OF	86 SHEETS



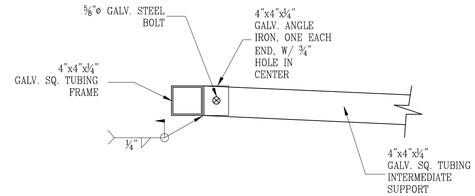
ELECTRICAL SYSTEM CONCRETE SLAB
NOT TO SCALE



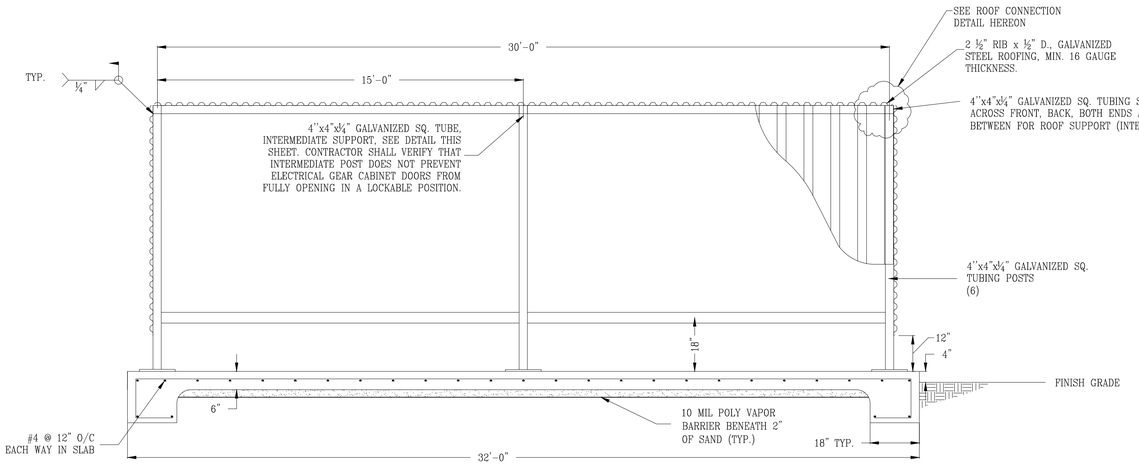
ROOF CONNECTION DETAIL
NOT TO SCALE

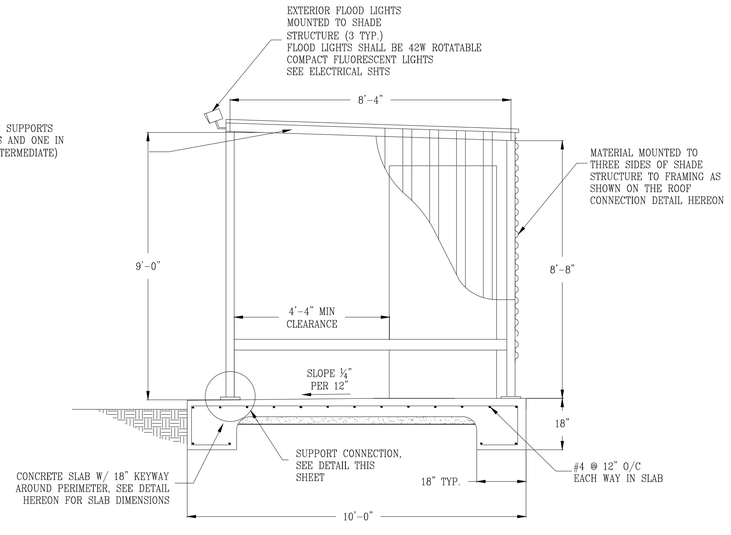


SUPPORT CONNECTION DETAIL
SCALE: 1"=1'



INTERMEDIATE SUPPORT DETAIL
NOT TO SCALE





ELECTRICAL SYSTEM SHADE STRUCTURE
NOT TO SCALE

NOTE:

CONTRACTOR SHALL VERIFY ELECTRICAL GEAR HEIGHT AND DIMENSIONS PRIOR TO BIDDING AND MAKE PROVISIONS IN HIS BID IF THE CONCRETE FOUNDATION AND SHADE STRUCTURE MUST BE LARGER THAN SHOWN HEREON. DIMENSIONS SHOWN HEREON ARE MINIMUM REQUIREMENTS.

REVISION	BY

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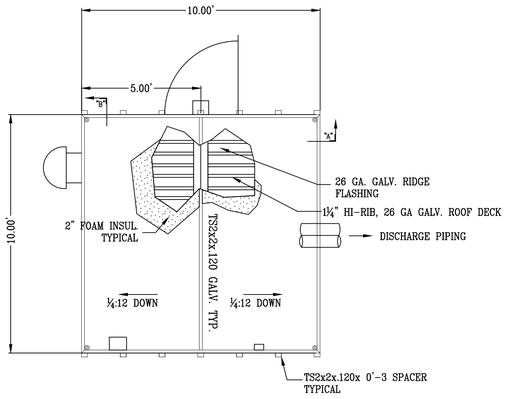
PORTERVILLE, CALIFORNIA 93257
PHONE 559-781-2286
FAX 559-782-7675

ELECTRICAL SHADE STRUCTURE

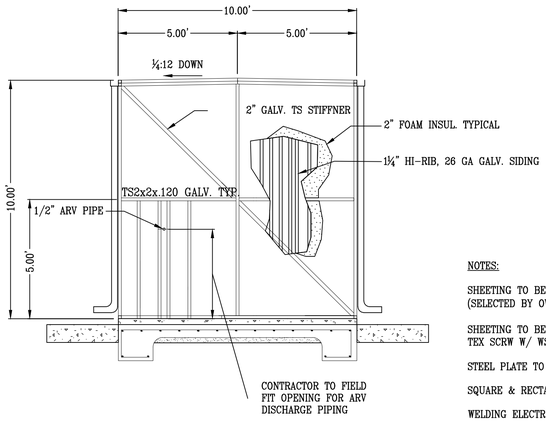
WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	CMM
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	88
OF	86 SHEETS



ROOF PLAN
PLAN VIEW



SOUTH WALL
ELEVATION VIEW
(EXTERIOR VIEW)

NOTES:

SHEETING TO BE FACTORY PREFINSHED W/ STD. COLOR. (SELECTED BY OWNER) (20 YEAR FINISH)

SHEETING TO BE ATTACHED W/ #12-14x ⅞" TEX SCRW W/ WSHR. (TO MATCH DECK COLOR)

STEEL PLATE TO BE ASTM A36.

SQUARE & RECTANGULAR TUBING TO BE ASTM 500-B.

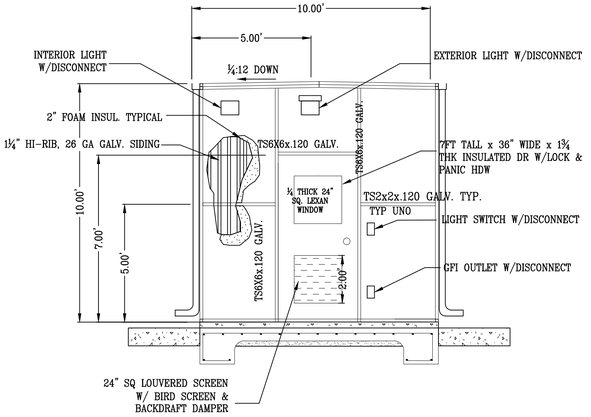
WELDING ELECTRODES TO BE AWS E70XX.

MACHINE BOLTS TO BE ASTM A307.

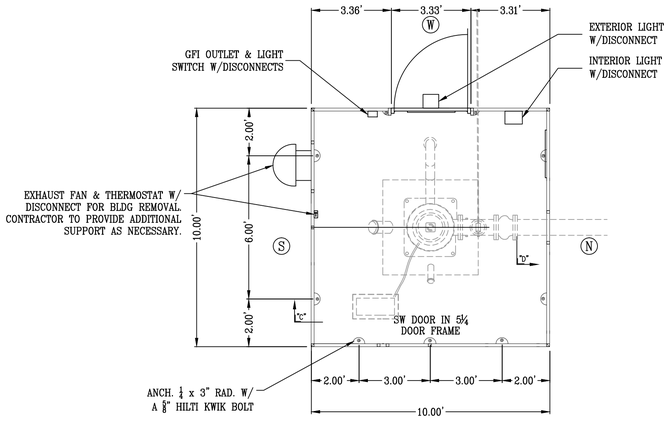
ALL MATERIALS SHALL BE GALVANIZED AND PAINTED PER THE SPECIFICATIONS.

CONTRACTOR TO CONSTRUCT CONCRETE SPLASH PAD BENEATH ROOF DOWNSPOUTS AS DIRECTED BY ENGINEER.

ROOF AND ENTIRE BUILDING AND FRAME SHALL BE REMOVEABLE AS ONE PIECE. ROOF SHALL ALSO BE REMOVEABLE BY ITSELF.

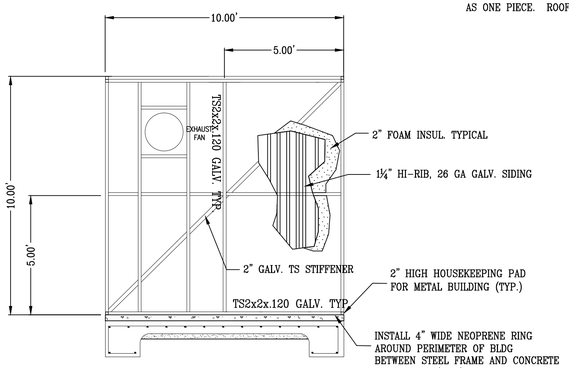


NORTH WALL
ELEVATION VIEW
(EXTERIOR VIEW)

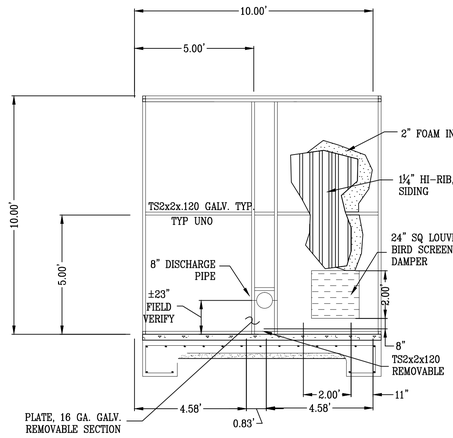


E

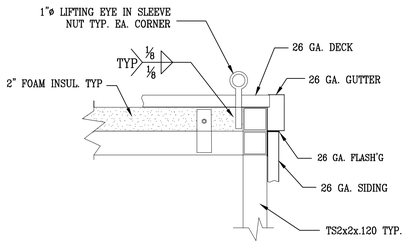
FLOOR PLAN
PLAN VIEW



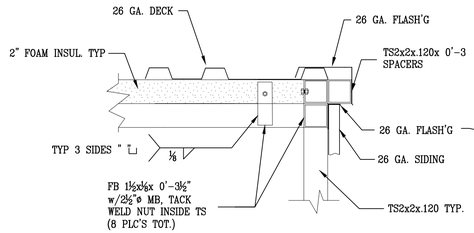
EAST WALL
ELEVATION VIEW
(EXTERIOR VIEW)



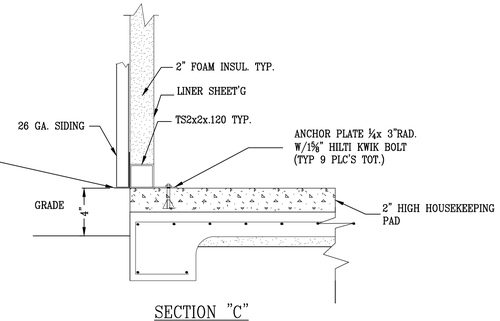
WEST WALL
ELEVATION VIEW
(EXTERIOR VIEW)



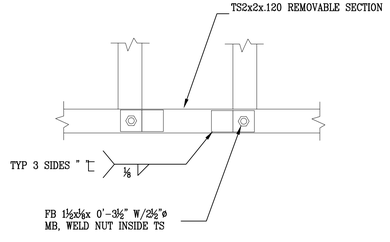
SECTION "A"



SECTION "B"



SECTION "C"



SECTION "D"

REVISION	BY

DEE JASPAR & ASSOCIATES, INC.
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PORTERVILLE, CALIFORNIA 93257 PHONE 661 393-1440
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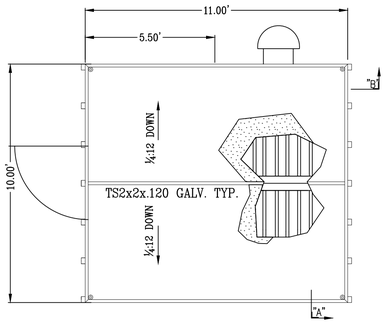
MOTOR ENCLOSURE BUILDING

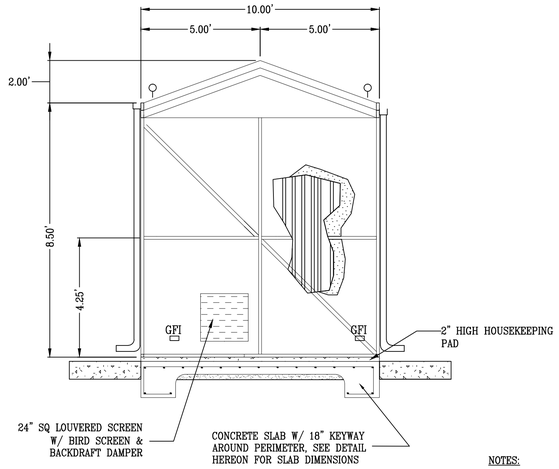
EQUIPPING OF MUNICIPAL WATER WELLS

ARVIN COMMUNITY SERVICES DISTRICT
KERN COUNTY, CALIFORNIA

DRAWN	CMM
CHECKED	CMS
DATE	JUNE2013
SCALE	NTS
FILE	
JOB NO.	
SHEET	89
OF	– SHEETS



ROOF PLAN
PLAN VIEW



WEST WALL
ELEVATION VIEW
(EXTERIOR VIEW)

NOTES:

CONTRACTOR TO CONSTRUCT CONCRETE SPLASH PAD BENEATH ROOF DOWNSPOUTS AS DIRECTED BY ENGINEER.

ROOF AND ENTIRE BUILDING AND FRAME SHALL BE REMOVABLE AS ONE PIECE.

CHLORINE BUILDING SHALL BE AN INSULATED FIBER GLASS BUILDING WITH INSULATED DOORS.

VENT CHLORINE TANKS TO EXTERIOR OF BUILDING AND SCREEN.

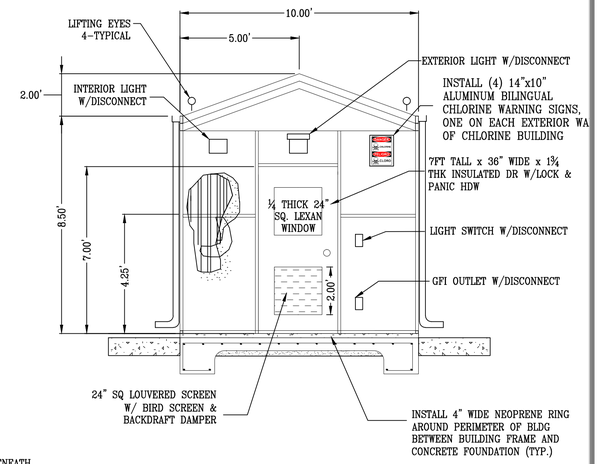
CONTRACTOR SHALL FURNISH AND INSTALL A SHELF FOR THE CHLORINE PUMP WITH SECONDARY CONTAINMENT PAN PER DISTRICT REQUIREMENTS.

ELECTRICAL CONDUITS WITHIN THE BUILDING SHALL BE RIGID NON-METALLIC SCHEDULE 80.

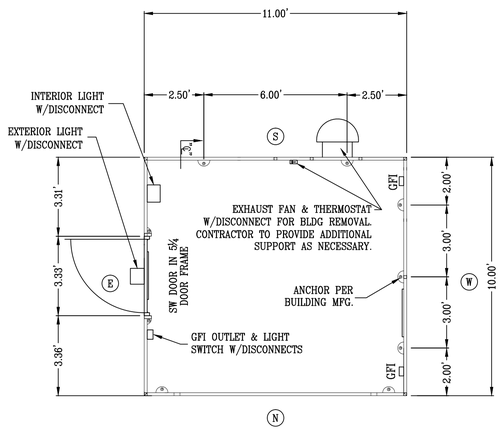
CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED SAFETY AND OSHA SIGNAGE FOR CHLORINE TANKS AND CHEMICALS IN ACCORDANCE WITH STATE WATER BOARD REQUIREMENTS.

ROLLUP DOOR NOTES:

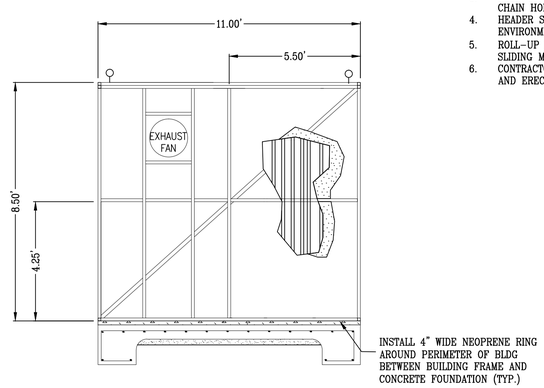
1. STEEL ROLL-UP DOOR SHALL BE JANUS MODEL 3000 OR APPROVED EQUAL. DOOR COLOR SHALL BE CHOSEN BY ENGINEER.
2. STEEL ROLL-UP DOOR CURTAIN SHALL BE MINIMUM 26 GAUGE CORRUGATED AND GALVANIZED GRADE 80 STEEL, PAINTED W/ MINIMUM 25 YEAR NO-FADE LIMITED PAINT WARRANTY.
3. ROLL-UP DOOR SHALL BE EQUIPPED WITH REDUCED DRIVE CHAIN HOIST OPERATOR.
4. HEADER SEAL TO BE INSTALLED TO PROTECT INTERIOR FROM ENVIRONMENTAL ELEMENTS.
5. ROLL-UP DOOR SHALL BE EQUIPPED W/STAINLESS STEEL SLIDING MINI LATCH CAPABLE OF ACCEPTING PADLOCK.
6. CONTRACTOR SHALL VERIFY CLEARANCES PRIOR TO FABRICATION AND ERECTION.



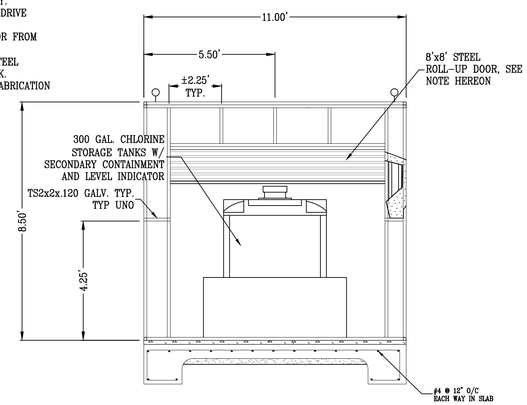
EAST WALL
ELEVATION VIEW
(EXTERIOR VIEW)



FLOOR PLAN
PLAN VIEW



SOUTH WALL
ELEVATION VIEW
(EXTERIOR VIEW)



NORTH WALL
ELEVATION VIEW
(EXTERIOR VIEW)

REVISION	BY

DEE JASPAR & ASSOCIATES, INC.
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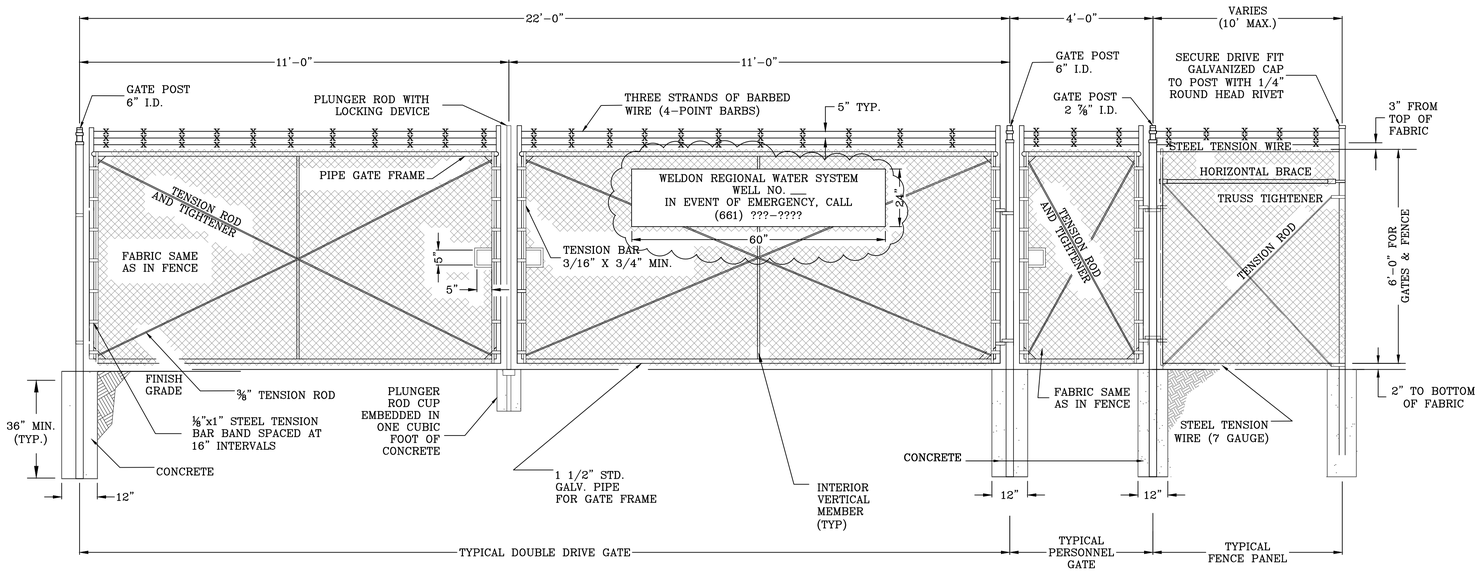
CHLORINE ENCLOSURE BUILDING

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

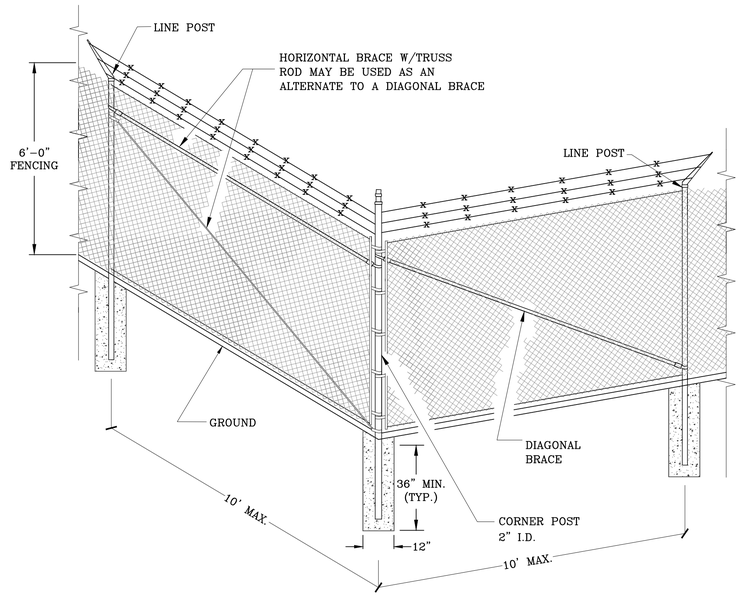
DRAWN	CMM
CHECKED	CMS
DATE	JAN2017
SCALE	NTS
FILE	
JOB NO.	
SHEET	90
OF	86 SHEETS



TYPICAL WELL SITE FENCING

ELEVATION VIEW

NOT TO SCALE



SITE FENCING DETAIL

NOT TO SCALE

NOTES:

1. GATE POSTS FOR DRIVE GATES SHALL BE 6" I.D. SCH. 40 W/CAP GALVANIZED STEEL PIPE, 18.97#/FT.
2. GATE POSTS FOR PERSONNEL GATES SHALL BE 2 1/2" I.D. W/CAP SCH. 40 GALVANIZED STEEL PIPE, 5.79#/FT.
3. CORNER POSTS SHALL BE 2" I.D. SCH. 40 GALVANIZED STEEL PIPE, 3.65#/FT.
4. CORNER POSTS SHALL HAVE DIAGONAL BRACING IN BOTH DIRECTIONS. LINE POSTS SHALL BE 1 1/2" I.D. SCH. 40 GALVANIZED STEEL PIPE, 2.72#/FT. HORIZONTAL BRACES SHALL BE 1 1/4" I.D. SCH. 40 GALVANIZED STEEL PIPE, 2.27#/FT.
5. FENCE FABRIC SHALL BE 9 GAUGE, 2-INCH MESH, GALVANIZE AFTER WEAVING.
6. FENCING SHALL BE INSTALLED TRUE AND TAUT AND BE SUCH THAT THE BOTTOM OF THE FABRIC IS 1-INCH ABOVE FINISHED GRADE. THE TOP OF SITE FENCING SHALL BE LEVEL, UNIFORM, AND AT THE SAME ELEVATION AROUND THE ENTIRE PERIMETER.
7. VINYL SLATS TO BE INSTALLED ON ALL CHAINLINK FENCING AND ACROSS THE FULL WIDTH OF ALL DRIVE GATES AND PERSONNEL GATES. CONTRACTOR SHALL PROVIDE THE DISTRICT WITH COLOR SAMPLES FOR THE VINYL SLATS. COLOR TO BE CHOSEN BY THE DISTRICT.

REVISION	BY

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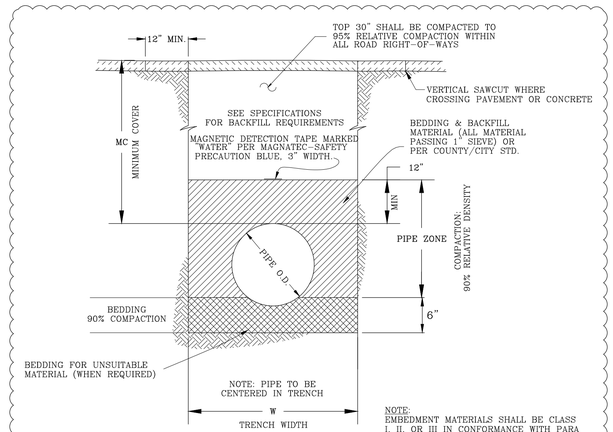
155 W. PUTNAM AVENUE, 2ND FLOOR PHONE 559 781-2288
PORTERVILLE, CALIFORNIA 93257 FAX 559 781-9275

FENCE DETAIL

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	CMM
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	91
OF	86 SHEETS

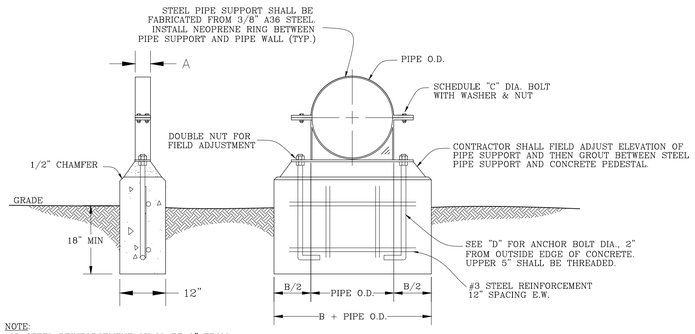


NOTE:
EMBEDMENT MATERIALS SHALL BE CLASS I, II, OR III IN CONFORMANCE WITH PARA 6.1.1, 6.1.2, AND 6.1.3 OF A.S.T.M. D2321
MAX SIZE=1"

TRENCH DIMENSIONS		
PIPE SIZE	W	MC
6.8"	30"	48"
10"	34"	48"
12"	36"	48"
16"	36"	48"

TRENCH DETAIL
NOT TO SCALE

DUPLICATED ON SHEET 97

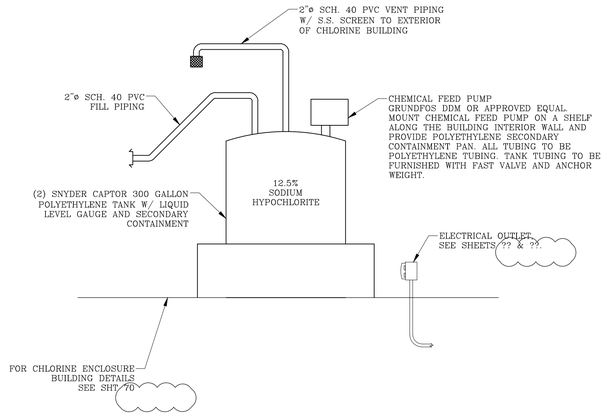


NOTE:
ALL STEEL REINFORCEMENT SHALL BE 3" FROM ANY OUTSIDE EDGE. ALL REINFORCEMENT SHALL BE 60 KSI MIN YIELD STRENGTH. ANY WELDING OF STEEL REINFORCEMENT SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1- MOST RECENT VERSION.

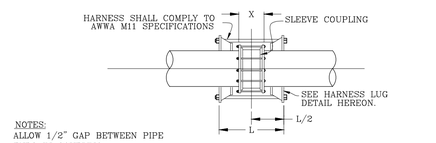
NOTE:
PRIMER COAT THE SUPPORT PRIOR TO INSTALLATION

NOM. DIA.	A	B	C	D
6"	4"	8"	1/2"	1/2"
8"	4"	10"	1/2"	5/8"
10"	4"	10"	1/2"	5/8"
12"	4"	10"	1/2"	5/8"

PIPE SUPPORT
NOT TO SCALE



CHLORINE INJECTION TANK
NOT TO SCALE

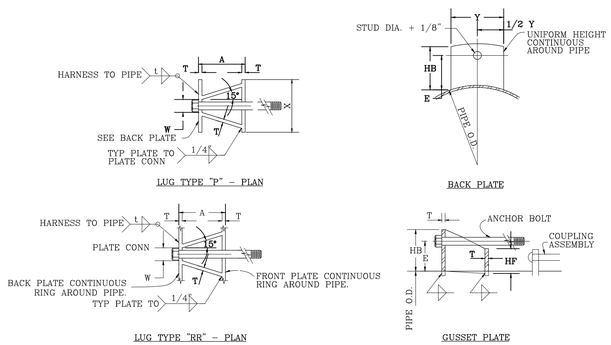


NOTES:
ALLOW 1/2" GAP BETWEEN PIPE ENDS IN COUPLING.

ALL BOLTS TO BE STAINLESS STEEL.

PIPE O.D.	X	L/2	L
6.625"	8.875"	10.3125"	20.625"
8.625"	8.875"	10.3125"	20.625"
10.75"	8.875"	10.3125"	20.625"
12.75"	8.875"	10.3125"	20.625"

DRESSER COUPLING DETAIL
NOT TO SCALE

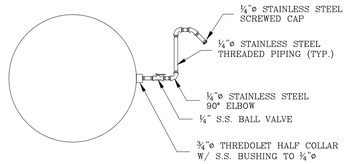


PIPE O.D.	t	LUG TYPE	BOLT DIA.	BOLTS REQ.	T	A	Y	W	X	HB	E	HF	MIN. CYLINDER THICKNESS UNDER THE LUGS (IN.) DESIGN PRESSURE 250 PSI	MIN. LENGTH OF THICKNESS (IN.) SEE NOTE
6.625	.250	P	0.625	2	0.375	5.00	5.00	1.375	5.00	3.875	3.000	2.00	0.193	7.50
8.625	.250	P	0.625	2	0.375	5.00	5.00	1.375	5.00	3.875	3.000	2.00	0.239	8.00
10.75	.250	P	0.625	2	0.375	5.00	5.00	1.375	5.00	3.875	3.000	2.00	0.193	7.50
12.75	.250	P	0.625	2	0.375	5.00	5.00	1.375	5.00	3.875	3.000	2.00	0.239	8.00

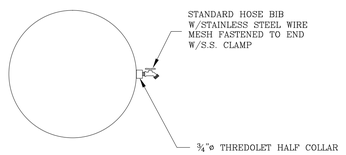
NOTE:
ALL DIMENSIONS ARE IN INCHES. THE MINIMUM LENGTH OF THICKNESS IS THE MINIMUM LENGTH OF THE MINIMUM CYLINDER THICKNESS UNDER THE LUGS FOR A 250 PSI DESIGN PRESSURE.

JOINT HARNESS LUG DETAIL
NOT TO SCALE

NOTE:
1. ALL BALL VALVES AND ISOLATION VALVES SHALL BE STAINLESS STEEL VALVES, AS NOTED.

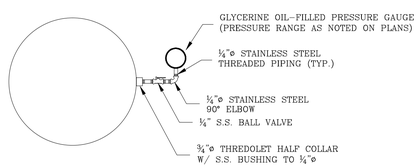


SAMPLE PORT DETAIL
NOT TO SCALE



HOSE BIB DETAIL
NOT TO SCALE

NOTE:
1. ALL PRESSURE GAUGES SHALL BE INSTALLED WITH A DAMPER AND DIAPHRAGM TO PREVENT BACK FLOW OF OIL INTO WATER SYSTEM (TYP.)
2. ALL PRESSURE GAUGES SHALL BE ASHCROFT PRESSURE GAUGES. 0-300 PSI GAUGE SHALL BE 4 1/2" FACE AND 0-160 PSI SHALL BE 2 1/2" FACE (TYP.)



PRESSURE GAUGE DETAIL
NOT TO SCALE

REVISION	BY

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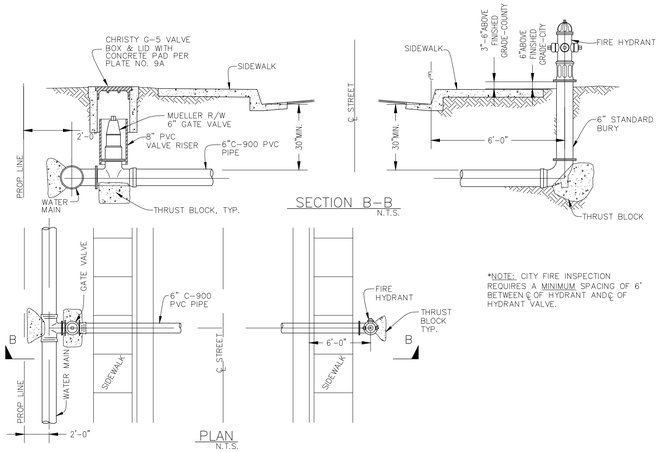
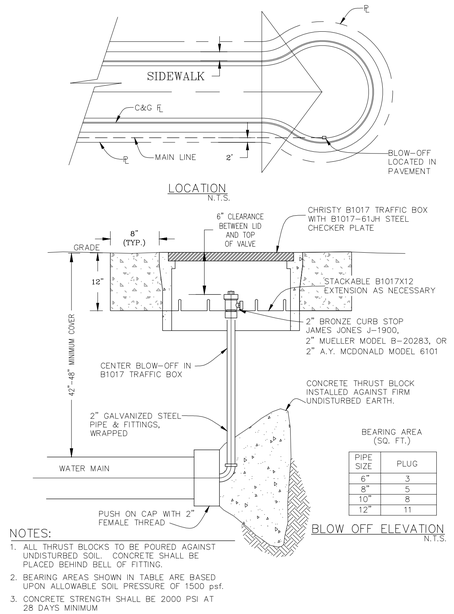
DETAILS
WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	CMM
CHECKED	CMS
DATE	JAN2017
SCALE	1"=5'
FILE	
JOB NO.	
SHEET	92
OF	86 SHEETS



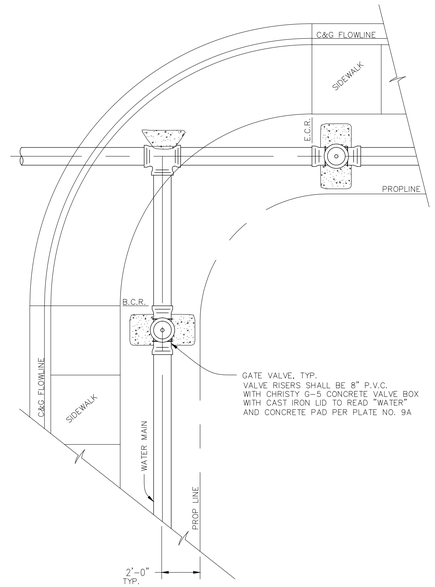
FIRE HYDRANT STREET CROSSING



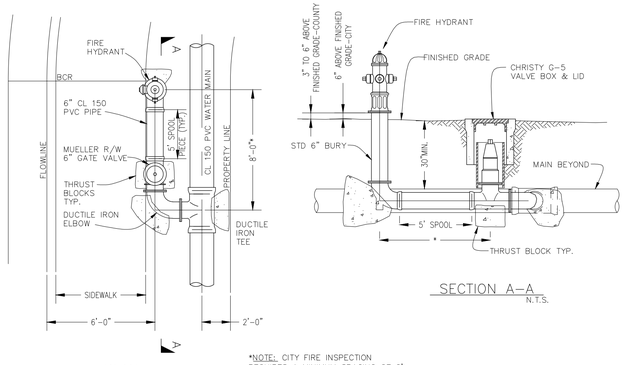
NOTES:

1. ALL THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL. CONCRETE SHALL BE PLACED BEHIND BELL OF FITTING.
2. BEARING AREAS SHOWN IN TABLE ARE BASED UPON ALLOWABLE SOIL PRESSURE OF 1500 psf.
3. CONCRETE STRENGTH SHALL BE 2000 PSI AT 28 DAYS MINIMUM

PERMANENT BLOW OFF ASSEMBLY



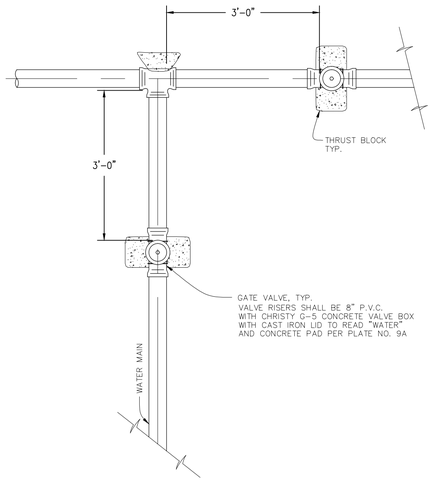
GATE VALVE INSTALLATION WITH CURB RETURN



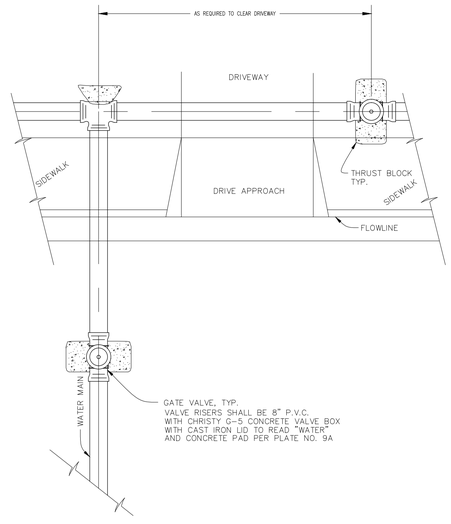
*NOTE: CITY FIRE INSPECTION REQUIRES A MINIMUM SPACING OF 6' BETWEEN ℄ OF HYDRANT AND ℄ OF HYDRANT VALVE.

FIRE HYDRANT CURBSIDE WALK

ANOTHER FIRE HYDRANT DETAIL ON SHEET 97



GATE VALVE INSTALLATION NO CURB RETURN



GATE VALVE INSTALLATION DRIVEWAY – NO CURB RETURN

REVISION	BY

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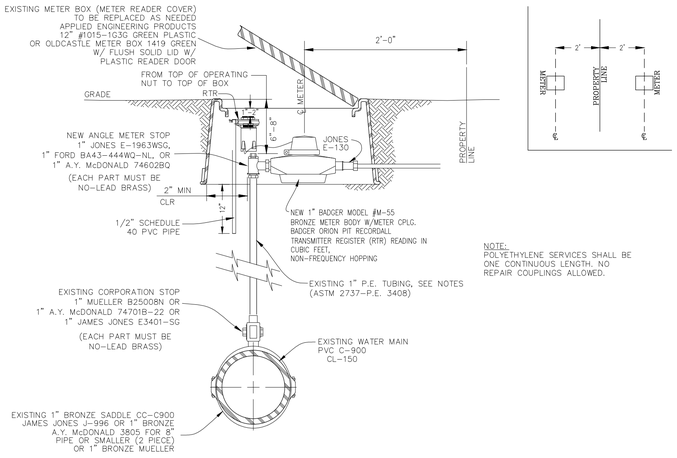
DETAILS

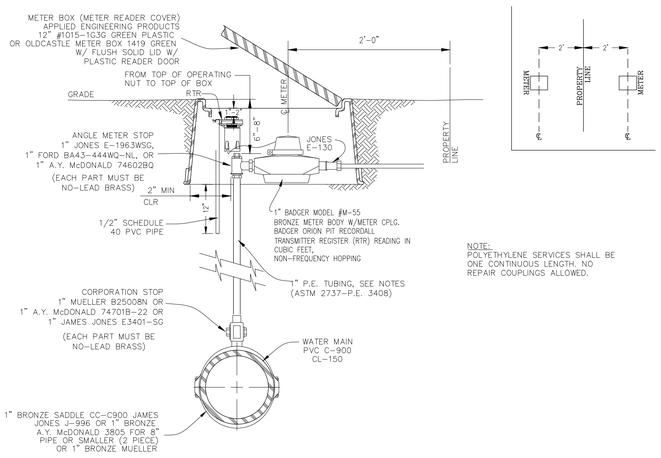
WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

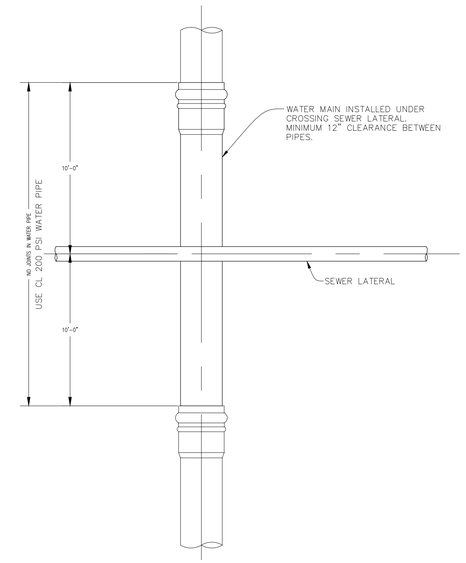
DRAWN	JLT
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	93.5
OF	86 SHEETS



TRADEWINDS WATER METER

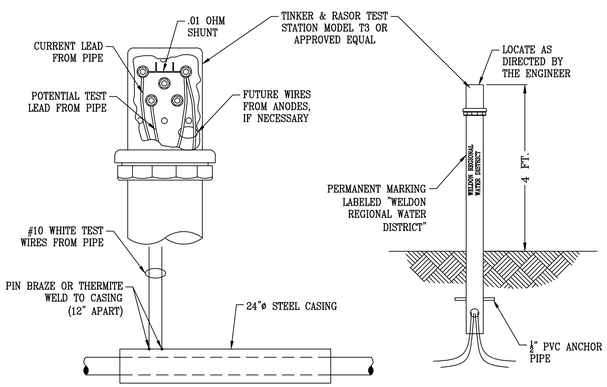


1" RESIDENTIAL SHORT WATER SERVICE



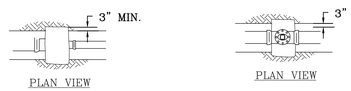
NOTE: THIS CONDITION IS NOT PREFERRED. ONLY PLACE WATER MAIN BELOW SEWER LATERAL IF THERE IS NO OTHER ALTERNATIVE.

WATER MAIN CROSSING BELOW SEWER LATERAL



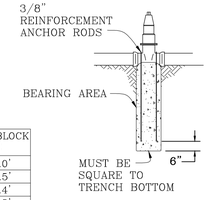
TEST STATION DETAIL

NOT TO SCALE



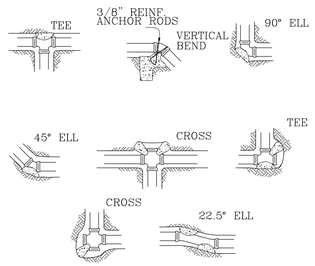
REDUCER SIZE	BEARING AREA REQ'D	THRUST BLOCK SIZE
18x12	14.1 s.f.	3.8'x3.8'
12x10	3.5 s.f.	1.9'x1.9'
12x8	6.3 s.f.	2.5'x2.5'
12x6	8.5 s.f.	2.9'x2.9'
12x4	10.1 s.f.	3.2'x3.2'

REDUCER



VALVE SIZE	BEARING AREA REQ'D	THRUST BLOCK SIZE
18"	25.5 s.f.	5.0'x5.0'
16"	20.1 s.f.	4.5'x4.5'
12"	11.3 s.f.	3.4'x3.4'
10"	7.9 s.f.	2.8'x2.8'
8"	5.0 s.f.	2.2'x2.2'
6"	2.8 s.f.	1.7'x1.7'
4"	1.3 s.f.	1.2'x1.2'

VALVE ANCHORS



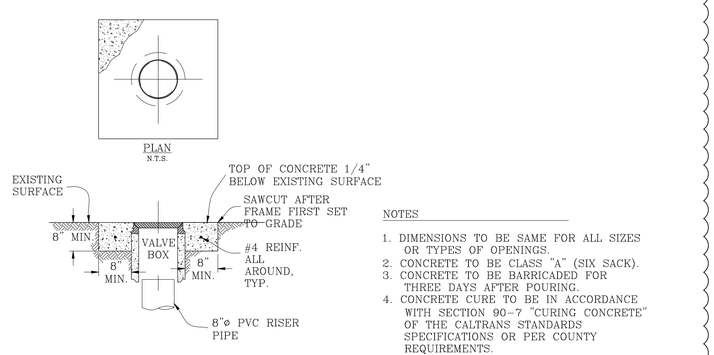
NOTES:
1. ALL THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL. CONCRETE SHALL BE PLACED BEHIND BELL OF FITTING.
2. BEARING AREAS SHOWN IN TABLE ARE BASED UPON ALLOWABLE SOIL PRESSURE OF 1500 psf.
3. CONCRETE STRENGTH SHALL BE 2000 PSI AT 28 DAYS MINIMUM

REQUIRES CALCULATION

PIPE SIZE	BEARING AREA (SQ. FT.) TEE OR PLUG	90° ELL OR HYDRANT	45° ELL	22.5° ELL
4"	2	3	1	1
6"	3	4	2	2
8"	5	7	4	2
10"	8	11	6	3
12"	11	16	8	4

THRUST BLOCK DETAIL

DUPLICATED ON SHEET 97



NOTES
1. DIMENSIONS TO BE SAME FOR ALL SIZES OR TYPES OF OPENINGS.
2. CONCRETE TO BE CLASS "A" (SIX SACK).
3. CONCRETE TO BE BARRICADED FOR THREE DAYS AFTER POURING.
4. CONCRETE CURE TO BE IN ACCORDANCE WITH SECTION 90-7 "CURING CONCRETE" OF THE CALTRANS STANDARDS SPECIFICATIONS OR PER COUNTY REQUIREMENTS.

VALVE BOX DETAIL

DUPLICATED ON SHEET 97

REVISION	BY

DEE JASPAR & ASSOCIATES, INC.
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661 WEST MORTON AVENUE PHONE 559 predacted
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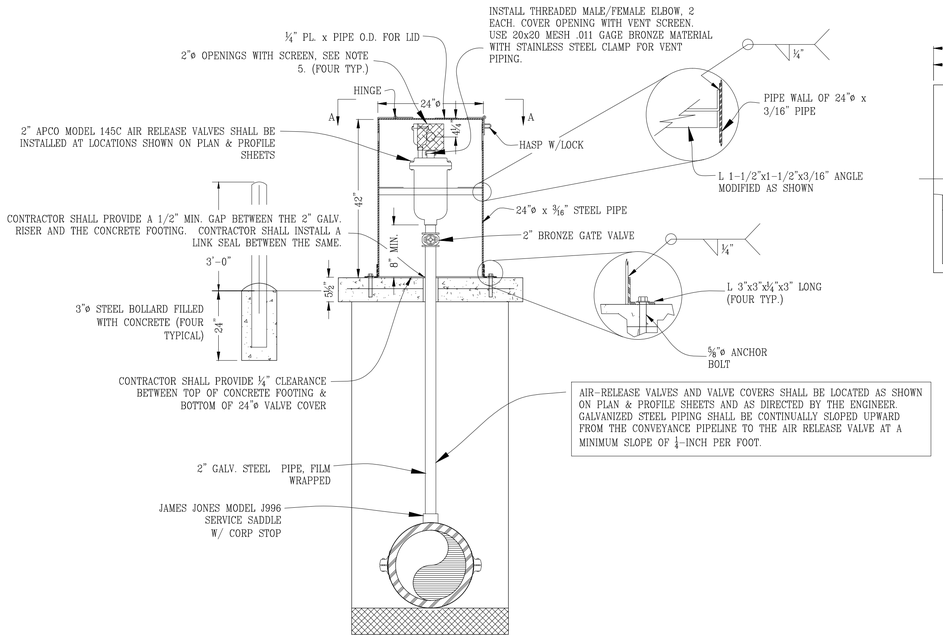
3701 PEGASUS DRIVE, SUITE 121 PHONE 661 predacted
BAKERSFIELD, CALIFORNIA 93308 FAX 661 predacted

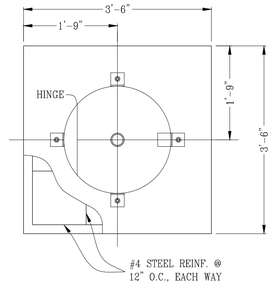
DETAILS

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	CMM
CHECKED	CMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	93
OF	86 SHEETS





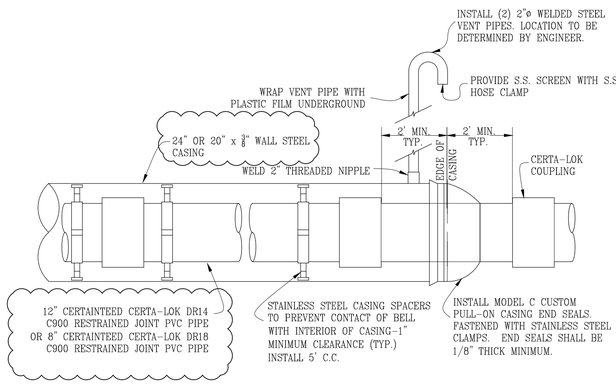
SECTION A-A

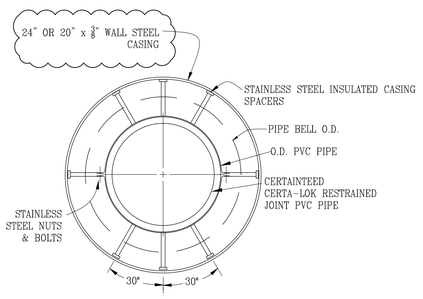
AIR RELEASE VALVE

NOT TO SCALE

NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF PIPE, VALVES AND COVER TO ASSURE ADEQUATE CLEARANCES ARE GIVEN BETWEEN THE SAME.
2. AIR RELEASE VALVES SHALL BE EPOXY LINED. EPOXY SHALL BE #134 SCOTCHKOTE SYSTEM.
3. SOIL MATERIAL AND COMPACTION REQUIREMENTS SHALL BE THE SAME AS THE TRENCH DETAIL.
4. FOUR 2"ø OPENINGS SHALL BE COVERED WITH INSECT SCREEN, 15x14 MESH, .011 STAINLESS STEEL. SCREEN SHALL BE SECURED TO THE INTERIOR OF THE PIPE WITH ¼"ø BOLTS-FOUR PER SCREEN TYP.
5. ALL ABOVE GROUND PIPE, VALVES, CONNECTIONS, & BOLLARDS SHALL BE PAINTED AS REQUIRED BY THE CONTRACT SPECIFICATIONS.
6. ALL BURIED STEEL PIPE FITTINGS AND APPURTENANCES SHALL BE FILM WRAPPED.
7. VALVE COVER SHALL BE 24" DIAMETER FOR 2" VALVES (TYP.).
8. CONCRETE FOR FOOTING SHALL BE 3000 PSI MINIMUM COMPRESSIVE STRENGTH. REINFORCEMENT STEEL SHALL BE 60 KSI.
9. CONTRACTOR SHALL INSTALL VALVES IN VALVE COVERS TO INSURE THAT THE GATE VALVES ARE ACCESSIBLE FROM THE TOP.
10. ARV GALV. STEEL PIPING MAY BE REQUIRED TO TURN AND RUN AWAY FROM THE PIPELINE IN ORDER TO INSTALL VALVE AND VALVE COVER OUT OF THE ROADWAY. PIPING SHALL CONTINUALLY SLOPE UP TO THE AIR RELEASE VALVE.





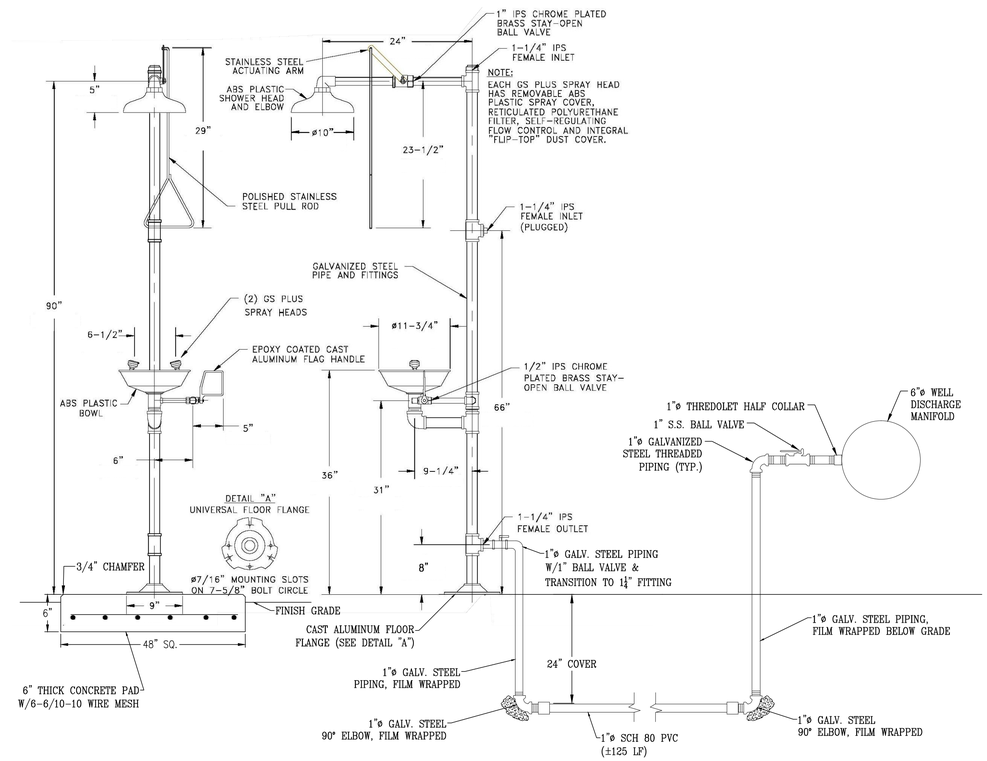
PIPE	AVG. O.D.	BELL O.D.	CASING PIPE
12" C900 DR 14	13.20"	16.00"	24"
8" C900 DR 18	9.05"	10.95"	20"

NOTES:

1. STEEL CASING SHALL BE INSTALLED USING THE BORE, JACK AND/OR TUNNEL METHOD.
2. FULL PENETRATING WELDS SHALL BE USED TO JOIN CASING SECTIONS.
3. CASING SPACERS SHALL BE INSTALLED WITHIN 2 FEET OF EACH PIPE JOINT AND AT MAXIMUM 5-FOOT INTERVALS (FOUR SPACERS PER 20-FOOT JOINT OF PIPE) OR AS RECOMMENDED BY THE PIPE MANUFACTURER IF MORE STRINGENT. IN ANY CASE MINIMUM JOINT DEFLECTION SHALL BE OBSERVED.
4. CARE SHALL BE EXERCISED DURING INSTALLATION IN ORDER TO PREVENT DAMAGE TO PIPE AND BELL.
5. CONTRACTOR SHALL FOLLOW PIPE INSTALLATION PROCEDURES AS DETAILED BY THE PIPE MANUFACTURER.
6. CONTRACTOR TO FURNISH AND INSTALL A TEST STATION AT ONE END OF THE CASING. SEE DETAIL HEREIN. TEST STATION TO BE FIELD LOCATED BY THE ENGINEER.

STEEL CASING DETAIL

NOT TO SCALE



EYE WASH/SHOWER STATION

GUARDIAN G1902P SAFETY STATION WITH STAY-OPEN SHOWER VALVE AND EYE WASH WITH ABS PLASTIC BOWL AND STAY-OPEN BALL VALVE

NOT TO SCALE

REVISION	BY

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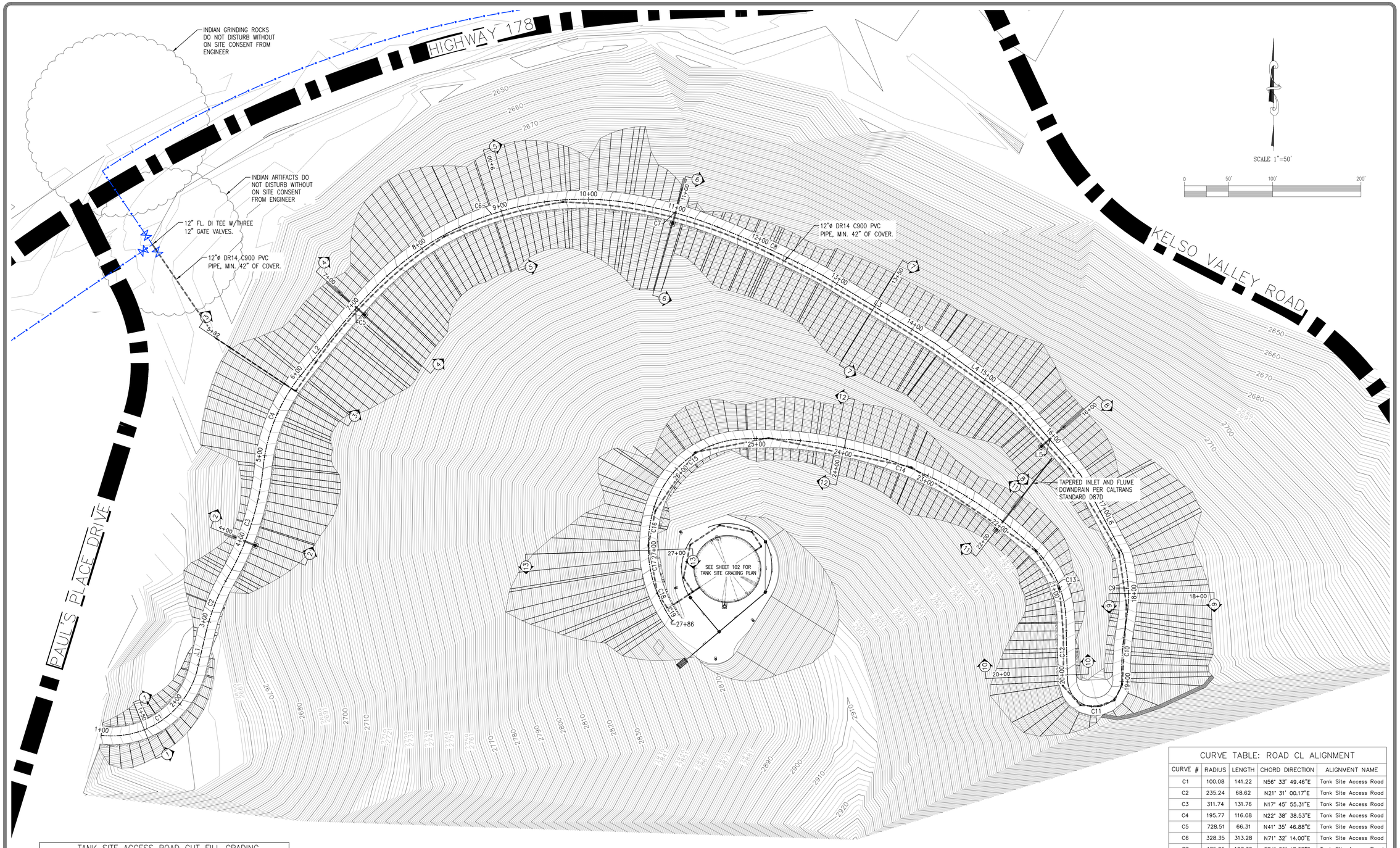
FAX 661 391-1799

DETAILS

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	CMM
CHECKED	OMS
DATE	JAN2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	94
OF	86 SHEETS



REV.	DATE	DESCRIPTION	BY
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KV TANK SITE ACCESS ROAD

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

TANK SITE ACCESS ROAD PLAN VIEW
SCALE: 1" = 50'

TANK SITE ACCESS ROAD CUT FILL GRADING

CUT SLOPE	FILL SLOPE	START STATION	END STATION
2:1	2:1	1+00	11+10
1.5:1	1.5:1	11+10	16+75
1.5:1	2:1	16+75	19+45
1.5:1	1.5:1	19+45	21+80
1.5:1	1.5:1	21+80	26+10
1.5:1	2:1	26+10	27+85

CUT/FILL SUMMARY

NAME	CUT FACTOR	FILL FACTOR	AREA	CUT	FILL	NET
CUT-FILL VOLUME	1.000	1.000	26.46 ACRES	29,760 CY	22,735 CY	7,025 CY <CUT>

CURVE TABLE: ROAD CL ALIGNMENT

CURVE #	RADIUS	LENGTH	CHORD DIRECTION	ALIGNMENT NAME
C1	100.08	141.22	N56° 33' 49.46"E	Tank Site Access Road
C2	235.24	68.62	N21° 31' 00.17"E	Tank Site Access Road
C3	311.74	131.76	N17° 45' 55.31"E	Tank Site Access Road
C4	195.77	116.08	N22° 38' 38.53"E	Tank Site Access Road
C5	728.51	66.31	N41° 35' 46.88"E	Tank Site Access Road
C6	328.35	313.28	N71° 32' 14.00"E	Tank Site Access Road
C7	475.05	107.36	S74° 39' 17.87"E	Tank Site Access Road
C8	1263.78	129.41	S65° 14' 49.41"E	Tank Site Access Road
C9	176.87	79.26	S2° 36' 01.64"E	Tank Site Access Road
C10	303.31	63.39	S4° 15' 01.76"W	Tank Site Access Road
C11	30.66	95.77	S87° 45' 13.88"W	Tank Site Access Road
C12	1479.00	65.45	N1° 29' 15.53"W	Tank Site Access Road
C13	118.66	92.73	N22° 36' 29.32"W	Tank Site Access Road
C14	449.65	359.92	N69° 00' 53.03"W	Tank Site Access Road
C15	109.86	135.31	S54° 32' 41.32"W	Tank Site Access Road
C16	145.00	53.65	S8° 39' 36.67"W	Tank Site Access Road
C17	145.00	36.62	S9° 10' 28.00"E	Tank Site Access Road
C18	145.00	31.36	S22° 36' 18.39"E	Tank Site Access Road
C19	145.00	17.86	S32° 19' 42.29"E	Tank Site Access Road

LINE TABLE: ROAD CL ALIGNMENT

LINE #	LENGTH	DIRECTION	ALIGNMENT NAME
L1	45.39	N13° 09' 36.16"E	Tank Site Access Road
L2	62.56	N38° 59' 19.84"E	Tank Site Access Road
L3	139.58	S58° 48' 50.80"E	Tank Site Access Road
L4	88.39	S53° 44' 38.01"E	Tank Site Access Road
L5	58.42	S41° 09' 33.51"E	Tank Site Access Road
L6	79.10	S28° 06' 18.10"E	Tank Site Access Road

DRAWN	KRW
CHECKED	CMS
DATE	3/9/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	95
OF	97 SHEETS

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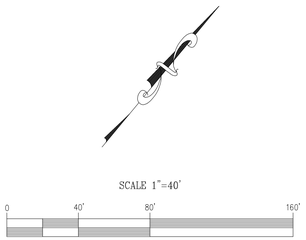
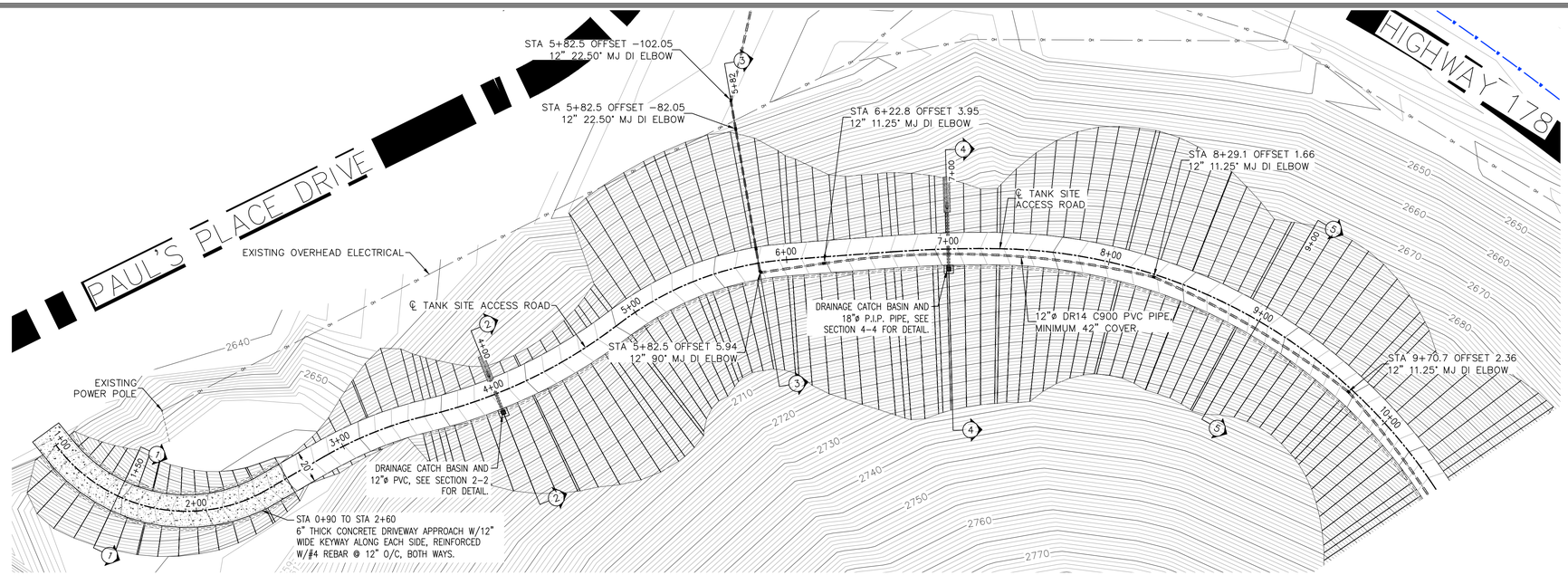
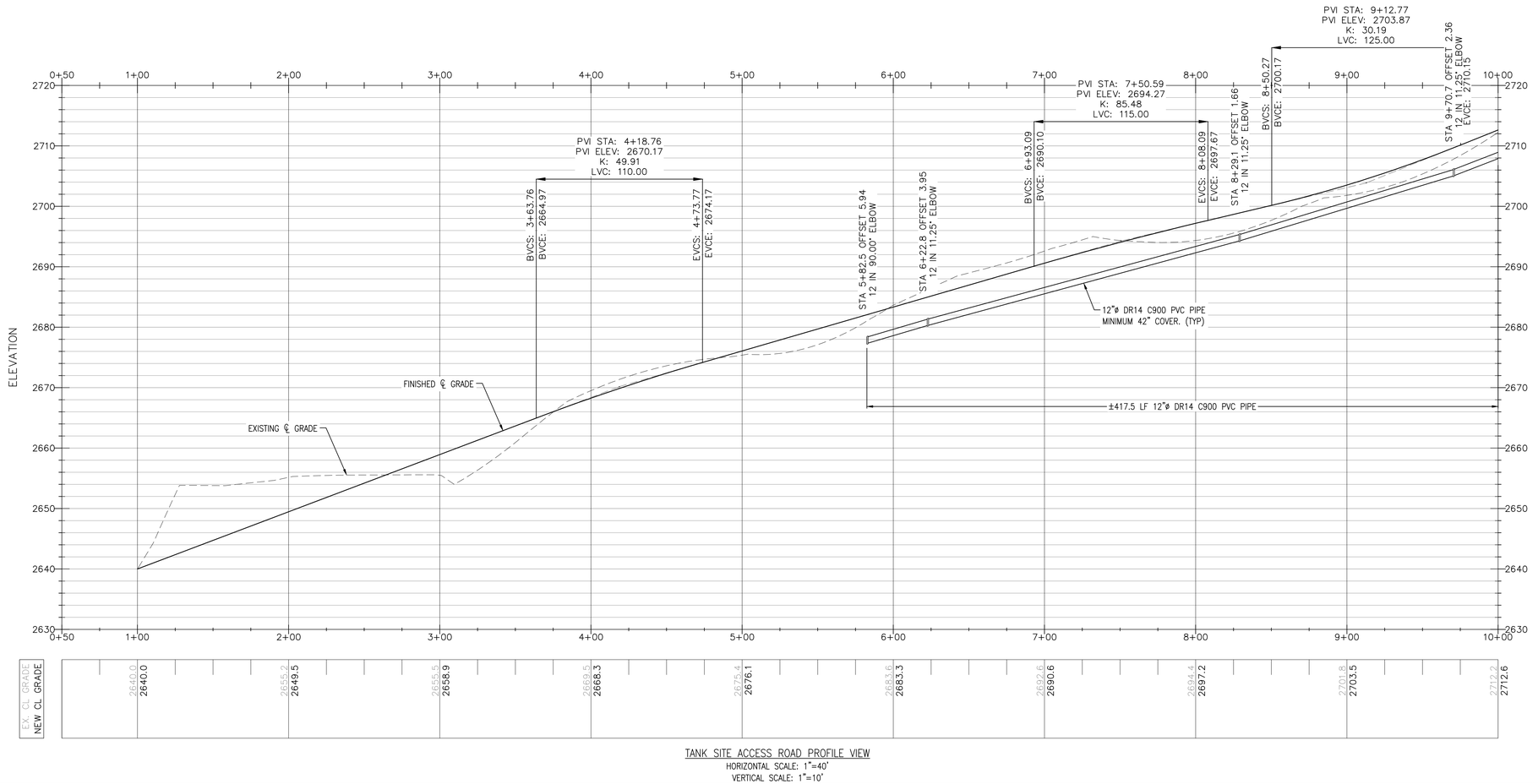




TANK SITE ACCESS ROAD PLAN VIEW
SCALE: 1"=40'



TANK SITE ACCESS ROAD PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'

REV.	DATE	DESCRIPTION	BY
1			
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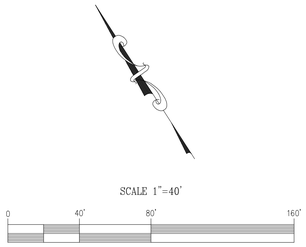
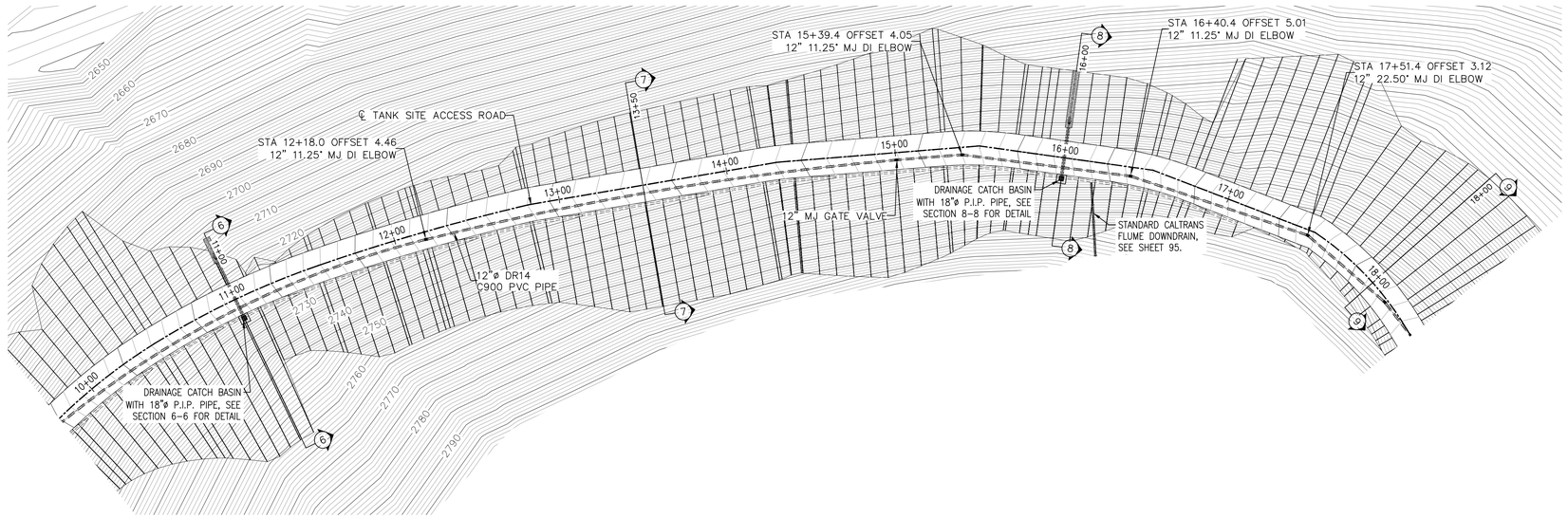
KV TANK SITE ACCESS ROAD PP

WELDON REGIONAL WATER SYSTEM

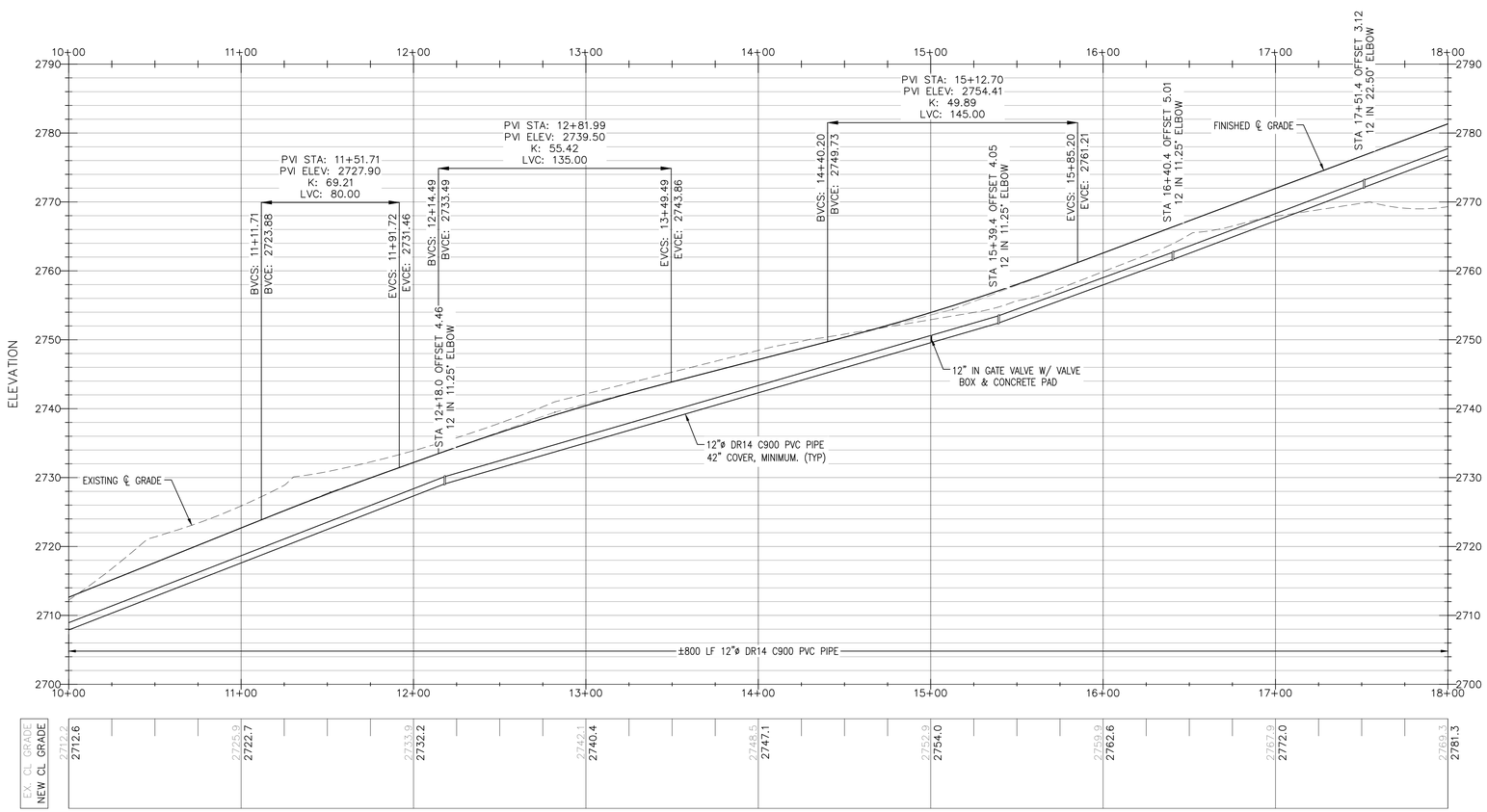
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	2/8/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	96
OF	97 SHEETS





TANK SITE ACCESS ROAD PLAN VIEW
SCALE: 1"=40'



TANK SITE ACCESS ROAD PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'

REV.	DATE	DESCRIPTION	BY
1			
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DEE JASPAR & ASSOCIATES, INC.
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KV TANK SITE ACCESS ROAD PP

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	2/8/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	97
OF	97 SHEETS

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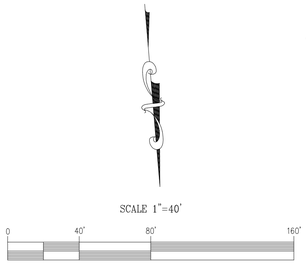
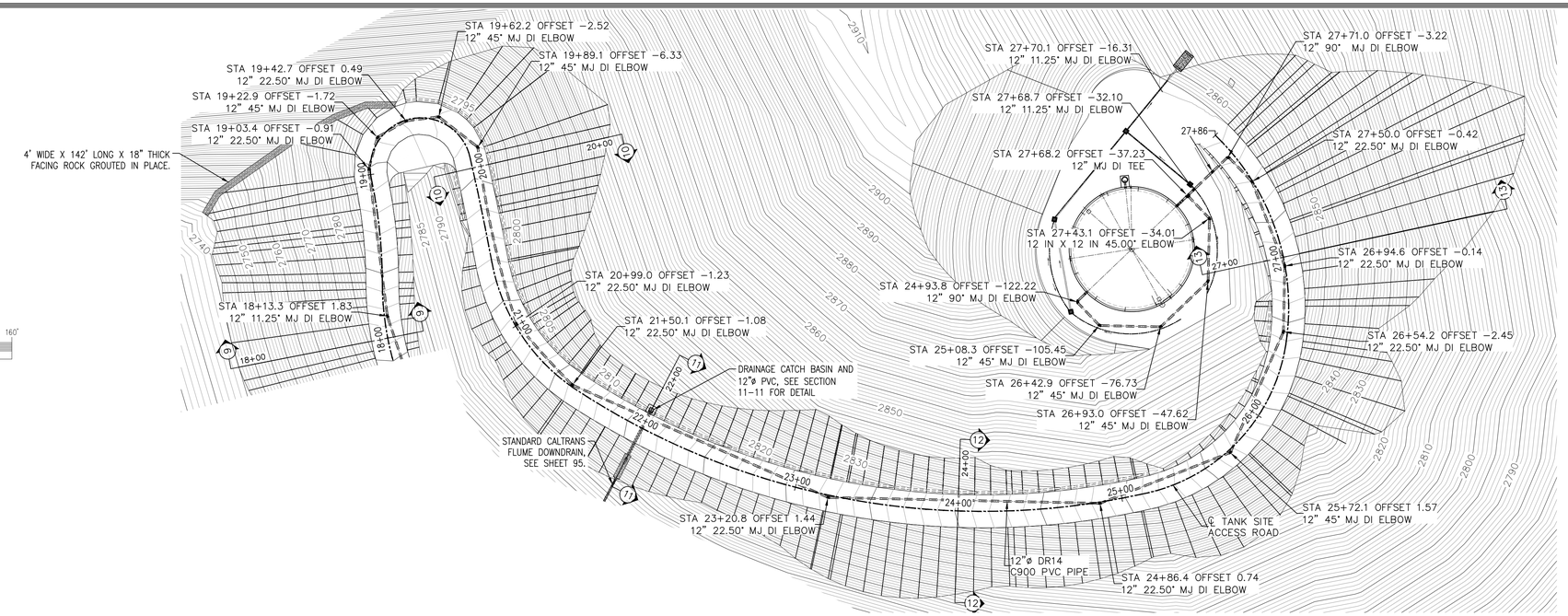
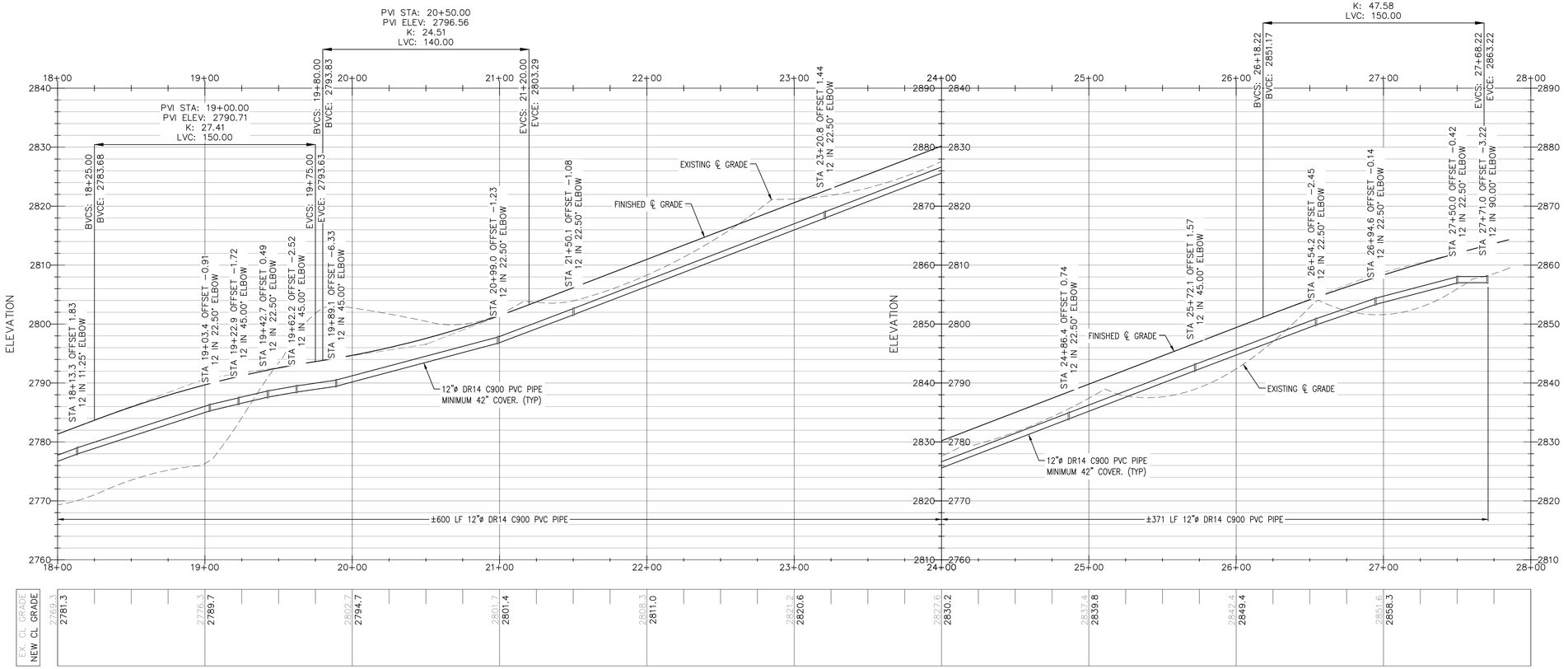




TANK SITE ACCESS ROAD PLAN VIEW
SCALE: 1"=40'



TANK SITE ACCESS ROAD PROFILE VIEW
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'

REV.	DATE	DESCRIPTION	BY
1			
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KV TANK SITE ACCESS ROAD PP

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	2/8/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	98
OF	97 SHEETS

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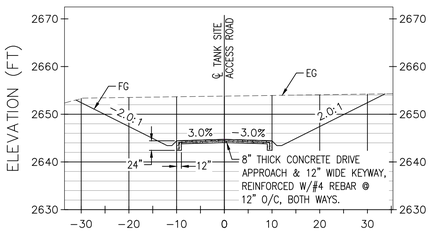
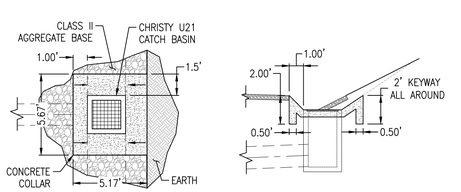
SECTION 1–1 AT STATION 1+50

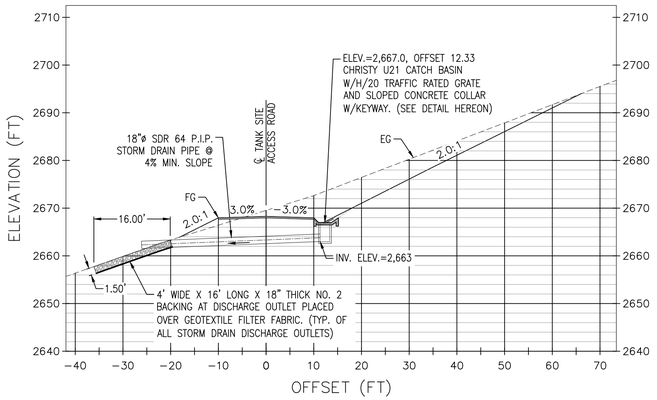


EXISTING GRADE	2653.3	2653.5	2653.7	2653.81	2653.9	2654.1	2654.2		
FINISHED GRADE	2652.4	2647.4	2644.4	2644.73	2644.4	2647.4	2652.4		



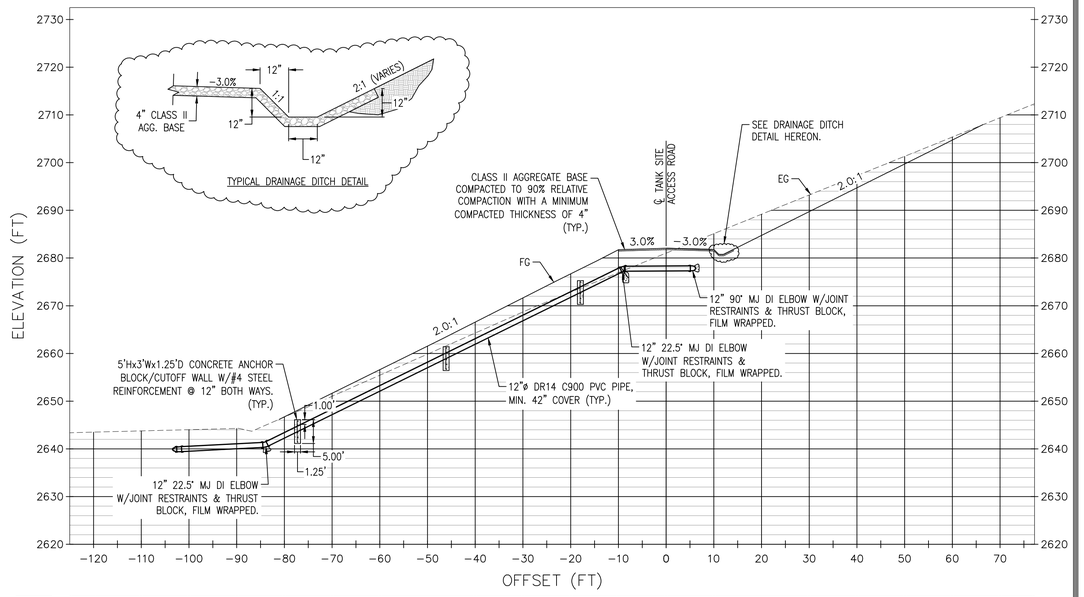
TYPICAL CATCH BASIN DETAIL
NTS

SECTION 2–2 AT STATION 4+00



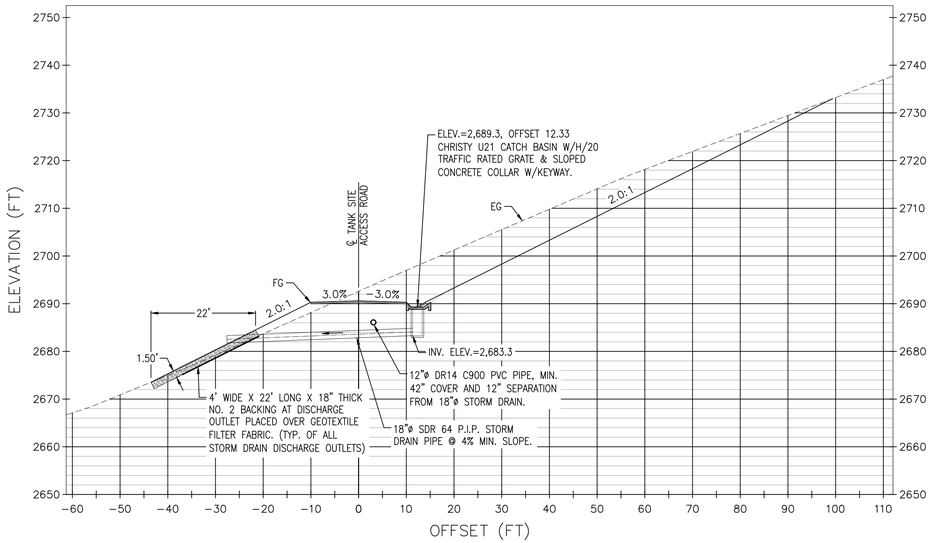
EXISTING GRADE	2656.4	2659.9	2663.3	2666.4	2669.51	2672.6	2676.4	2680.3	2684.1	2687.9	2691.7	2695.5													
FINISHED GRADE	2656.4	2659.9	2663.3	2666.4	2669.51	2672.6	2676.4	2680.3	2684.1	2687.9	2691.7	2695.5													

SECTION 3–3 AT STATION 5+82



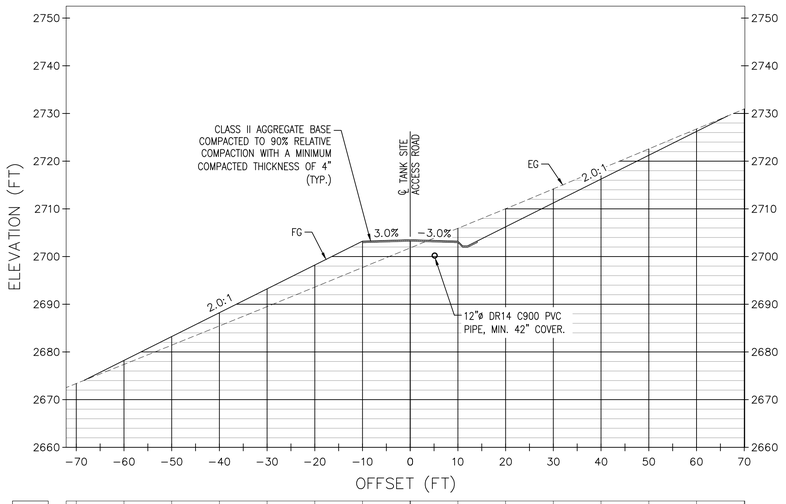
EXISTING GRADE	2643.5	2643.8	2644.0	2644.3	2646.7	2651.0	2655.4	2659.9	2664.3	2668.7	2672.8	2676.9	2681.02	2685.1	2689.2	2693.2	2697.3	2701.3	2705.4	2709.4					
FINISHED GRADE	2646.7	2651.7	2656.6	2661.5	2666.6	2671.6	2676.7	2681.7	2682.06	2681.8	2684.7	2689.7	2694.7	2699.7	2704.7										

SECTION 4–4 AT STATION 7+00



EXISTING GRADE	2667.1	2670.9	2675.0	2679.2	2683.7	2688.1	2692.60	2697.0	2701.3	2705.5	2709.8	2714.1	2718.2	2721.9	2725.7	2729.5	2733.2	2737.0							
FINISHED GRADE	2690.60	2690.3	2693.3	2698.3	2703.3	2708.3	2713.3	2718.3	2723.3	2728.3															

SECTION 5–5 AT STATION 9+00



EXISTING GRADE	2673.4	2677.4	2681.4	2685.5	2689.5	2693.6	2697.7	2701.81	2705.9	2710.0	2714.2	2718.4	2722.6	2726.8	2730.9										
FINISHED GRADE	2678.2	2683.2	2688.2	2693.2	2698.2	2703.2	2703.52	2703.2	2706.2	2711.2	2716.2	2721.2	2726.2												

TANK SITE ACCESS ROAD CROSS SECTIONS
SCALE: 1"=15'

0 15' 30' 60'

REV.	DATE	DESCRIPTION	BY
1			
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
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KV TANK SITE ROAD CROSS SECTIONS

WELDON REGIONAL WATER SYSTEM

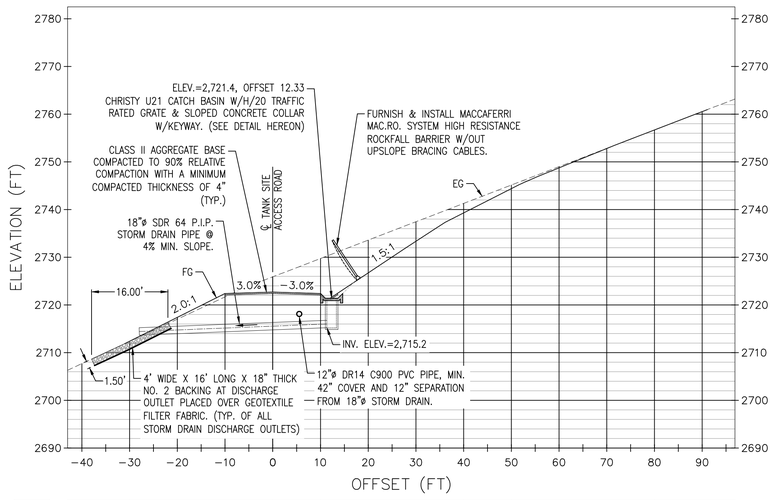
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN KRW
CHECKED CMS
DATE 2/8/2017
SCALE AS SHOWN
FILE
JOB NO.
SHEET 99
OF 97 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\95-102. KV TANK SITE PLAN & GRADING PLAN.DWG 9/1/2017 4:05 PM

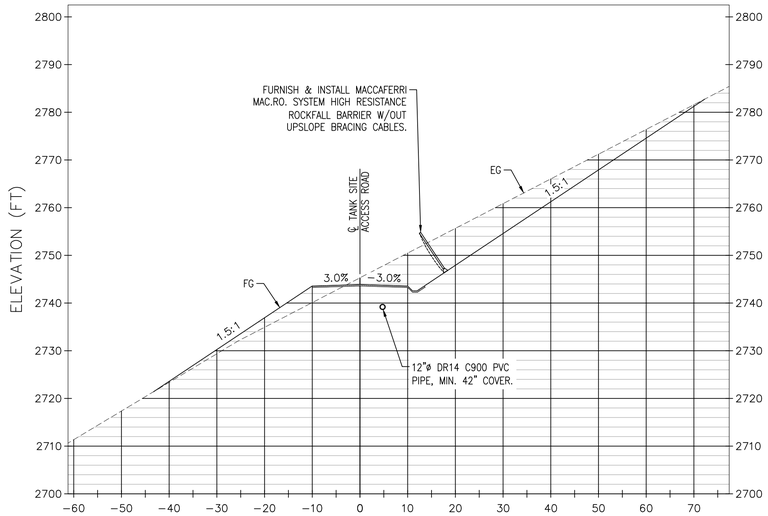
ROCKFALL PROTECTION NOTE:
MACCAFERRI MAC.RO. SYSTEM HIGH RESISTANCE ROCKFALL BARRIER W/OUT UPSLOPE BRACING CABLES SHALL BE INSTALLED ON THE 1.5:1 UPSLOPES FROM STA 11+00 TO STA 17+25 AND ALSO FROM STA 19+50 TO STA 25+50 FOR AN APPROXIMATE TOTAL OF 1,225 LINEAR FEET OF ROCKFALL PROTECTION.

SECTION 6–6 AT STATION 11+00



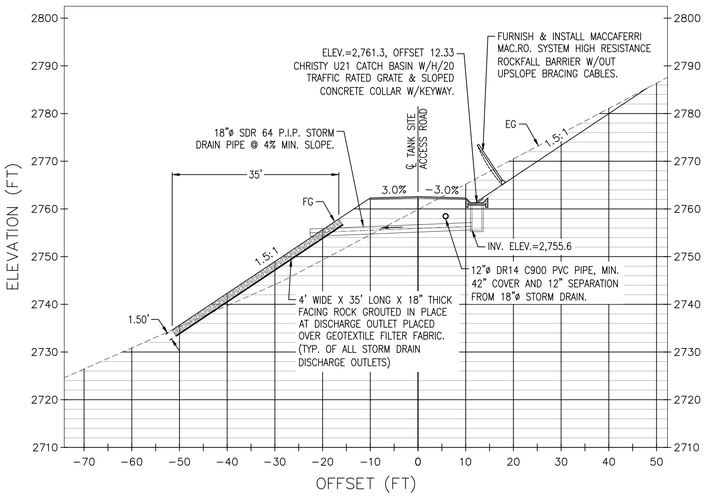
EXISTING GRADE	2707.7	2712.4	2712.4	2717.0	2717.4	2721.7	2722.4	2725.88	2722.70	2729.7	2722.4	2733.6	2726.7	2737.4	2733.3	2741.3	2739.3	2745.1	2744.4	2749.0	2748.7	2752.8	2752.8	2756.7	2756.7	2760.5	2760.5
FINISHED GRADE																											

SECTION 7–7 AT STATION 13+50



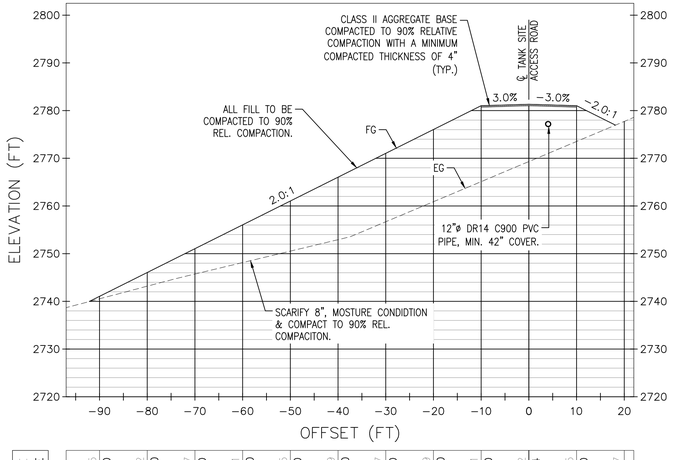
EXISTING GRADE	2711.4	2717.4	2723.4	2723.6	2729.4	2730.3	2734.9	2736.9	2740.1	2743.6	2745.30	2743.89	2750.5	2743.6	2755.7	2747.9	2760.9	2754.6	2766.0	2761.3	2771.2	2767.9	2776.4	2774.6	2781.6	2781.3
FINISHED GRADE																										

SECTION 8–8 AT STATION 16+00



EXISTING GRADE	2726.4	2730.9	2735.3	2735.6	2739.7	2742.3	2744.1	2749.0	2749.3	2755.6	2754.6	2762.3	2759.88	2762.59	2765.2	2762.3	2770.5	2766.6	2775.8	2773.3	2781.1	2780.0	2786.4				
FINISHED GRADE																											

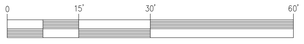
SECTION 9–9 AT STATION 18+00



EXISTING GRADE	2740.5	2741.0	2743.2	2746.0	2745.7	2751.0	2748.1	2756.0	2750.5	2761.0	2752.9	2766.0	2756.7	2771.0	2760.9	2776.0	2765.1	2781.0	2769.32	2781.34	2773.5	2781.0	2777.7				
FINISHED GRADE																											

TANK SITE ACCESS ROAD CROSS SECTIONS

SCALE: 1"=15'



REV.	DATE	DESCRIPTION	BY
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DEE JASPAR & ASSOCIATES, INC.
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FAX 559 781-9275

KV TANK SITE GRADING PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	OMS
DATE	2/8/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	100
OF	97 SHEETS

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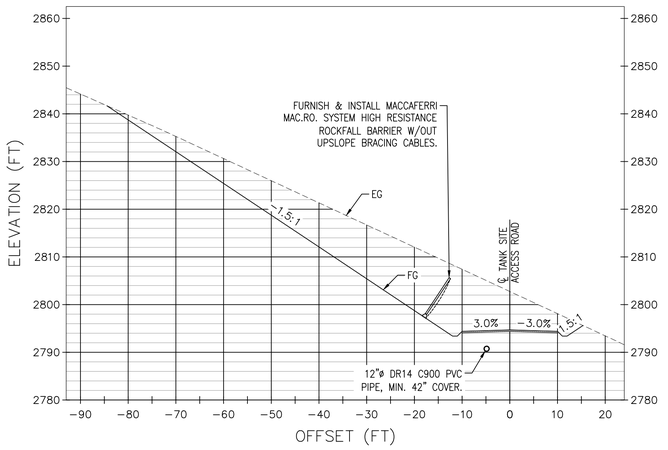
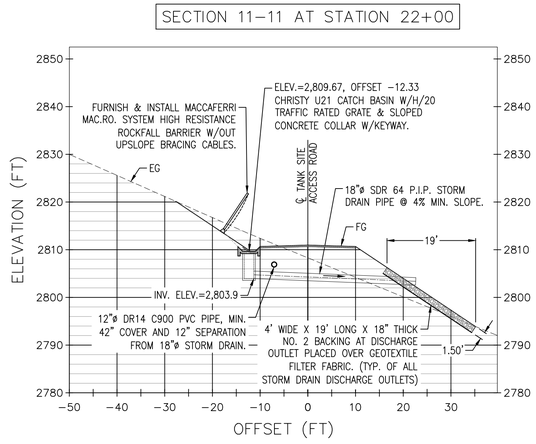
SECTION 10–10 AT STATION 20+00



EXISTING GRADE	2844.1	2839.7	2835.3	2830.6	2826.0	2821.3	2816.7	2812.0	2807.4	2802.75	2798.1	2793.4									
FINISHED GRADE		2838.7	2832.1	2825.4	2818.7	2812.1	2805.4	2798.7	2794.4	2794.69	2794.4										

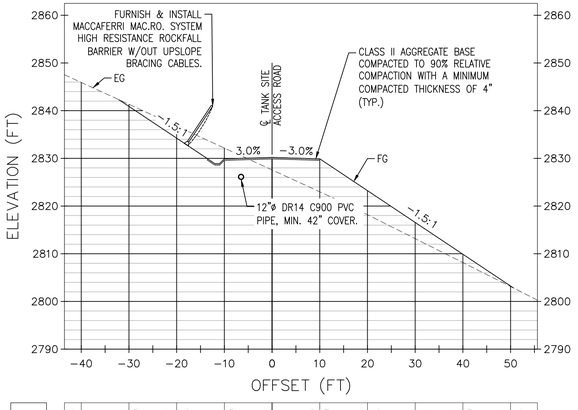
SECTION 11–11 AT STATION 22+00



EXISTING GRADE	2830.0	2825.6	2821.2	2816.7	2812.4	2808.30	2804.2	2800.1	2796.0												
FINISHED GRADE		2815.0	2810.7	2810.97	2810.7	2804.0	2797.3														

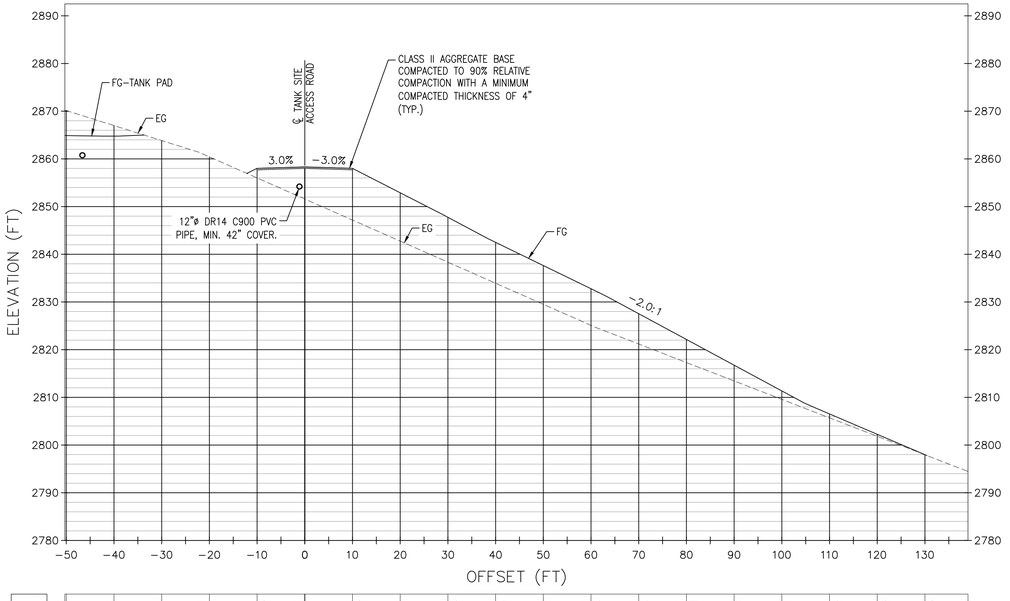
ROCKFALL PROTECTION NOTE:
MACCAFERRI MAC.RO. SYSTEM HIGH RESISTANCE ROCKFALL BARRIER W/OUT UPSLOPE BRACING CABLES SHALL BE INSTALLED ON THE 1.5:1 UPSLOPES FROM STA 11+00 TO STA 17+25 AND ALSO FROM STA 19+50 TO STA 25+50 FOR AN APPROXIMATE TOTAL OF 1,225 LINEAR FEET OF ROCKFALL PROTECTION.

SECTION 12–12 AT STATION 24+00



EXISTING GRADE	2845.9	2841.3	2836.7	2832.2	2827.57	2823.0	2818.2	2813.2	2808.1	2803.1											
FINISHED GRADE		2840.9	2834.2	2829.9	2830.19	2829.9	2823.2	2816.6	2809.9	2803.2											

SECTION 13–13 AT STATION 27+00



EXISTING GRADE	2870.1	2867.0	2863.8	2860.4	2856.0	2851.60	2847.2	2842.8	2838.3	2833.9	2829.5	2825.1	2821.2	2817.3	2813.4	2809.6	2805.7	2801.8	2798.0		
FINISHED GRADE					2858.0	2858.32	2858.0	2852.9	2847.8	2842.5	2837.6	2832.8	2827.5	2822.1	2816.8	2811.4	2806.5	2802.3	2798.0		

TANK SITE ACCESS ROAD CROSS SECTIONS
SCALE: 1"=15'

0 15' 30' 60'

REV.	DATE	DESCRIPTION	BY
1			
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DEE JASPAR & ASSOCIATES, INC.
CIVIL • ENGINEERS
2720 UNICORN ROAD, BLDG A
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FAX 559 783-9275

KV TANK SITE GRADING PLAN

WELDON REGIONAL WATER SYSTEM

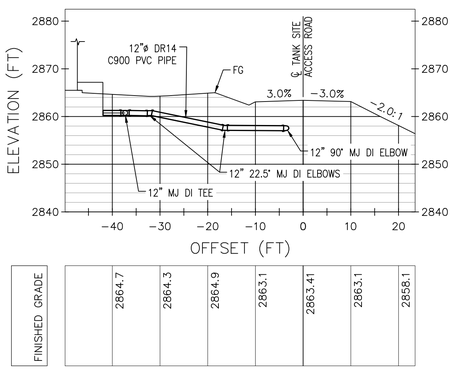
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	2/8/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	101
OF	97 SHEETS

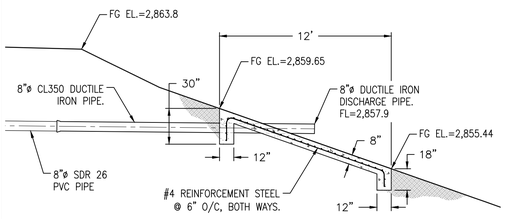
= FINISHED GRADE ELEVATION

NOTES:

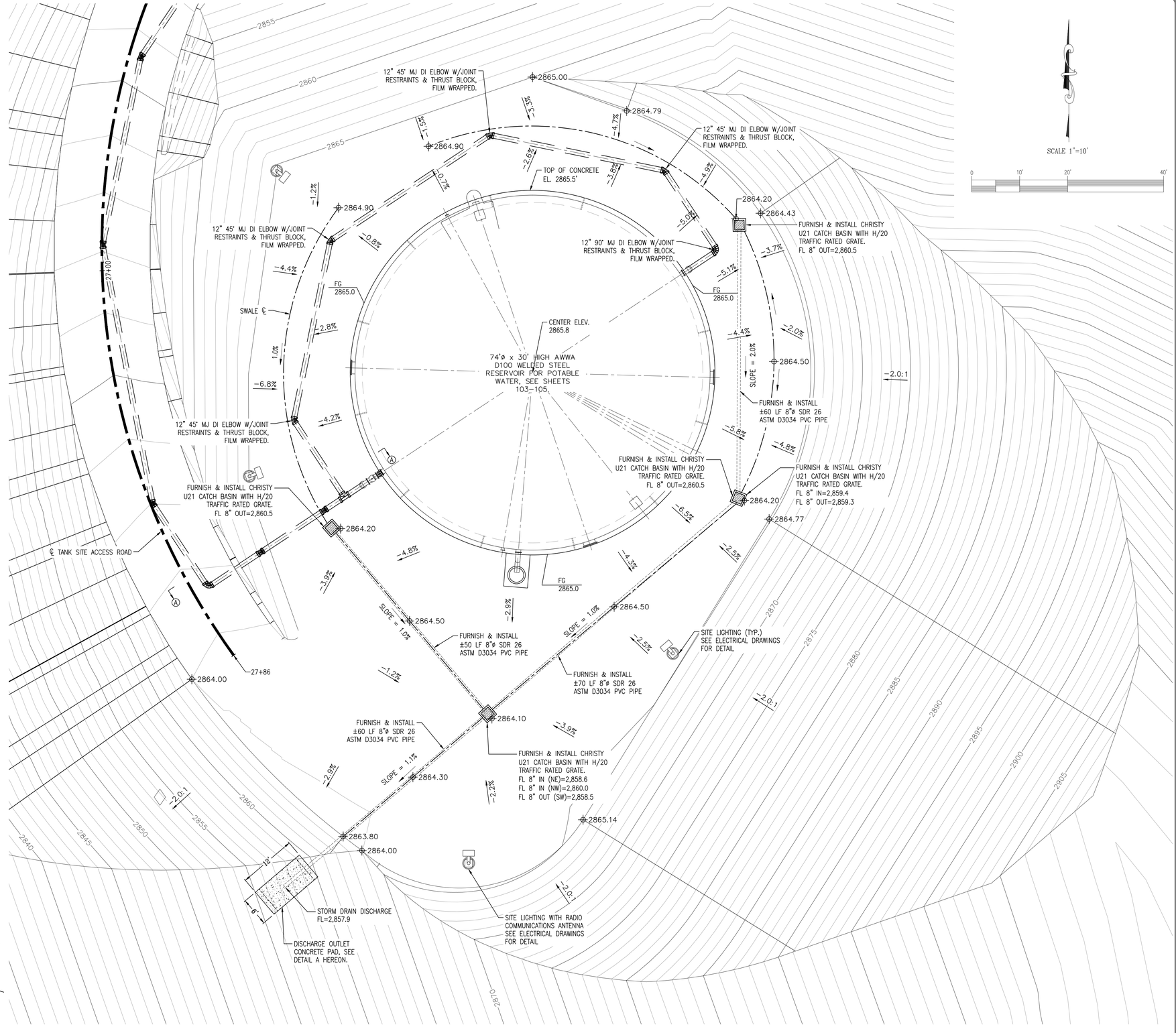
1. CONTRACTOR SHALL CLEAR AND GRUB THE AREA IN THE LOCATION OF WORK, INCLUDING BUT NOT LIMITED TO, THE STORAGE TANK AREA, BOOSTER PUMP AREA, HYDROPNEUMATIC TANK AREA, PIPELINE ROUTES, AND ANY BORROW AREAS. CLEARING AND GRUBBING MATERIAL SHALL BE DISPOSED OF AS DIRECTED BY THE ENGINEER AND SHALL NOT BE INCORPORATED INTO BACKFILL OR FILL MATERIAL.
2. OVEREXCAVATE MINIMUM OF 18", SCARIFY 8", AND RECOMPACT TO 90% RELATIVE COMPACTION WITH LIMITS BEING A MINIMUM OF 5 FEET BEYOND PERIMETER OF STRUCTURES. BACKFILL AND COMPACTION SHALL BE PERFORMED WITH A MINIMUM OF TWO LIFTS.
3. AREAS TO RECEIVE EARTH FILL SHALL BE SCARIFIED 8", MOISTURE CONDITIONED TO SLIGHTLY ABOVE OPTIMUM, AND COMPACTED TO 90% RELATIVE COMPACTION.
4. FILL MATERIAL SHALL BE PLACED IN UNIFORM LOOSE LIFTS NOT TO EXCEED 8", MOISTURE CONDITIONED AS SPECIFIED, AND COMPACTED TO 90% RELATIVE COMPACTION.
5. FINISH GRADING SHALL BE TO THE LINES AND GRADES SHOWN HEREON.
6. ALL FILL SLOPES AND AREAS OF CUT SHALL LEAVE SLOPES THAT DO NOT EXCEED 2:1 (HORIZONTAL:VERTICAL).



SECTION A–A
SCALE: 1"=15'



DETAIL A–DISCHARGE OUTLET CONCRETE PAD
SCALE: 1"=5'



GRADING PLAN
SCALE: 1" = 10'

REV.	DATE	DESCRIPTION	BY
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DEE JASPAR & ASSOCIATES, INC.
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KV TANK SITE GRADING PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	3/4/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	102
OF	97 SHEETS

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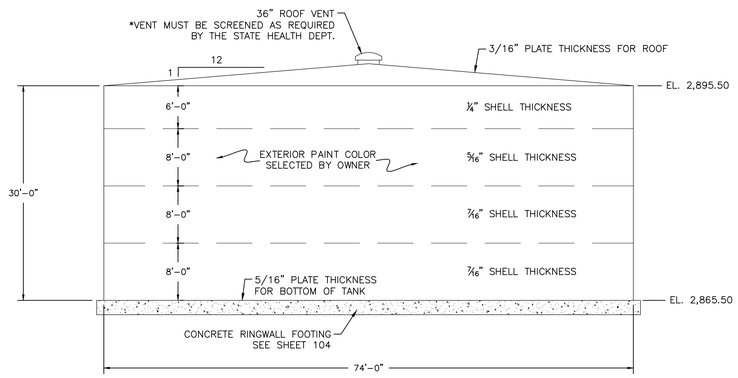
NOTE: THE FINAL LOCATION OF ALL APPURTENANCES SHALL BE DETERMINED IN THE FIELD BY THE OWNER'S REPRESENTATIVE AND FIELD FOREMAN.

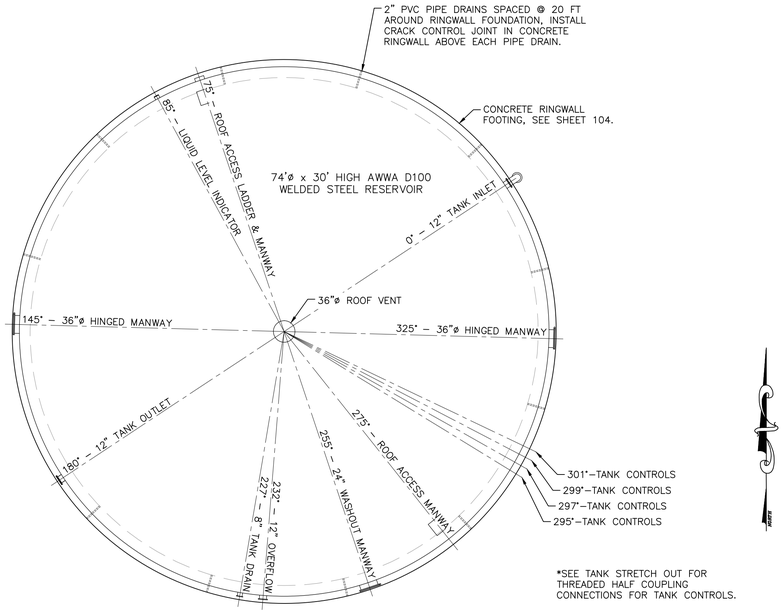
NOTE: ALL FLANGES SUPPLIED BY RESERVOIR MFG. SHALL BE AWWA C207 CLASS D.

ALL WELDS AND CONNECTIONS SHALL BE I.A.W. AWWA D100.

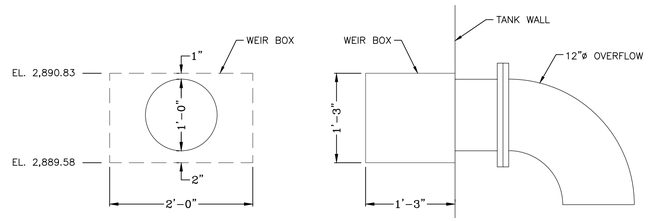


TANK SHELL
ELEVATION VIEW

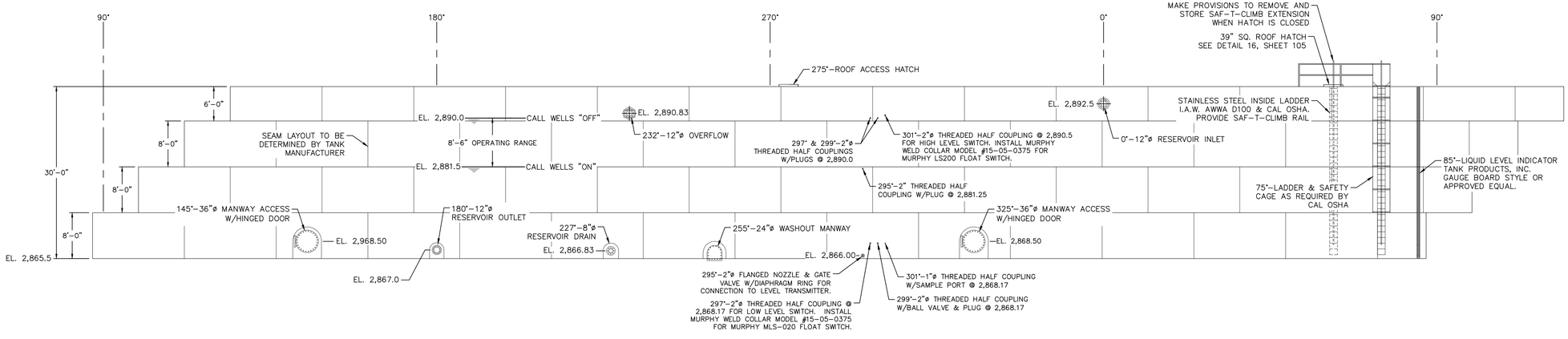
ITEM #	SIZE	DESCRIPTION	ORIENTATION	ELEVATION
1	12"	12"ø RESERVOIR OUTLET	0°	2,867.0
2	8"	8"ø DRAIN	60°	2,866.83
3	12"	12"ø OVERFLOW	65°	2,890.83
4	24"	24"ø WASHOUT MANWAY	75°	–
5	–	ROOF ACCESS HATCH	95°	–
6	2"	2"ø FLANGED OUTLET FOR LEVEL TRANSMITTER	115°	2,866.0
7	2"	2"ø THREADED OUTLET W/PLUG	115°	2,881.67
8	2"	2"ø THREADED OUTLET W/LOW LEVEL FLOAT SWITCH	117°	2,868.17
9	2"	2"ø THREADED HALF COUPLING W/PLUG	117°	2,890.0
10	2"	2"ø THREADED HALF COUPLING W/BRONZE BALL VALVE & PLUG	119°	2,868.17
11	2"	2"ø THREADED HALF COUPLING W/PLUG	119°	2,890.0
12	1"	1"ø THREADED HALF COUPLING W/SAMPLE PORT	121°	2,868.17
13	2"	2"ø THREADED HALF COUPLING W/HIGH LEVEL FLOAT SWITCH	121°	2,890.5
14	36"	36"ø SHELL MANWAY	145°	2,868.5
15	–	ROOF ACCESS LADDER W/SAFETY CAGE	255°	–
16	–	LIQUID LEVEL INDICATOR	265°	–
17	12"	12"ø RESERVOIR INLET	270°	2,892.5
18	36"	36"ø SHELL MANWAY	325°	2,868.5



TANK APPURTENANCE LAYOUT
PLAN VIEW



OVERFLOW WEIR BOX DETAIL
ELEVATION VIEWS
NTS



TANK STRETCH OUT
ELEVATION VIEW

REV.	DATE	DESCRIPTION	BY
1			
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DEE JASPAR & ASSOCIATES, INC.
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FAX 559 783-9275

KELSO VALLEY TANK PLAN

74'ø x 30' HIGH AWWA D100 WELDED STEEL RESERVOIR

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	1/26/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	103
OF	97 SHEETS

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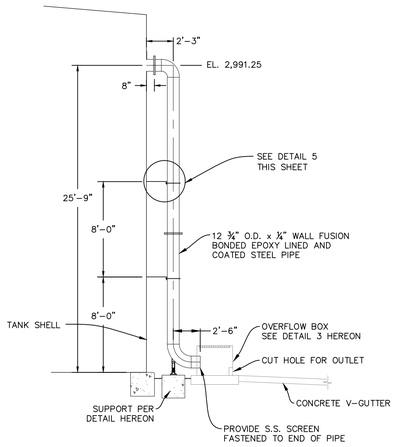
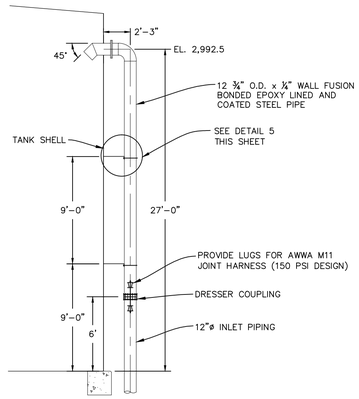
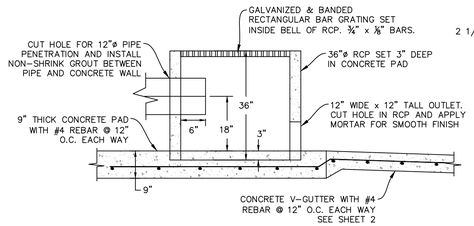


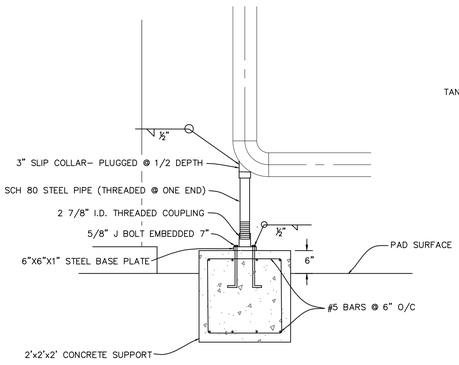
1 12"ø OVERFLOW
ELEVATION VIEW
NOT TO SCALE



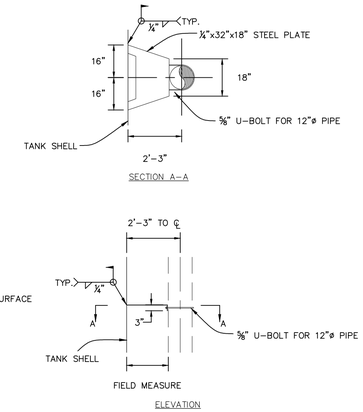
2 12"ø INLET
ELEVATION VIEW
NOT TO SCALE



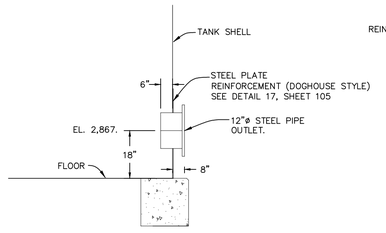
3 TANK OVERFLOW BOX
ELEVATION VIEW
NOT TO SCALE



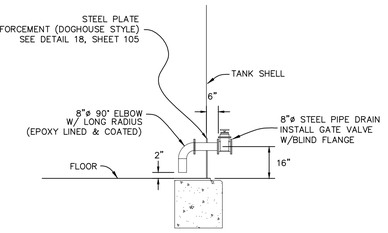
4 TANK OVERFLOW PIPING SUPPORT
ELEVATION VIEW
NOT TO SCALE



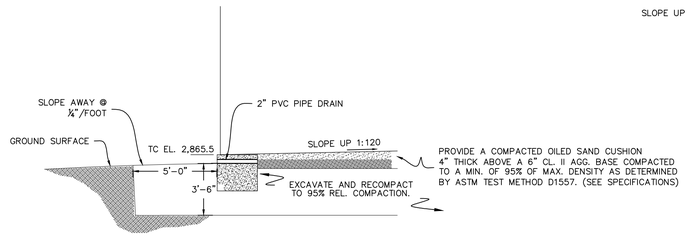
5 PIPING SUPPORT BRACKETS
NOT TO SCALE



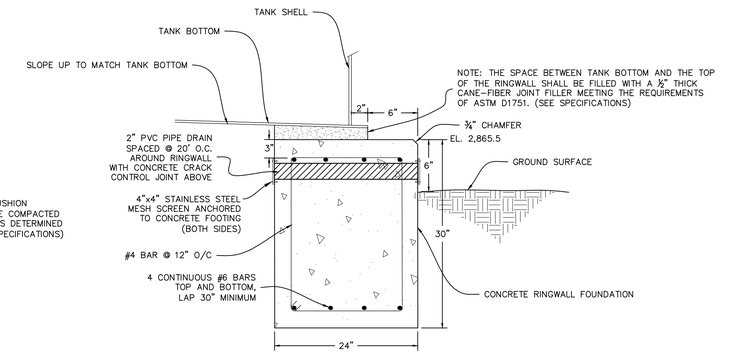
6 12"ø TANK OUTLET
ELEVATION VIEW
NOT TO SCALE



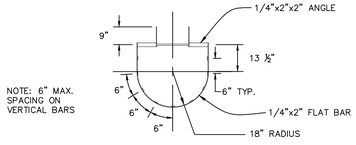
7 8"ø TANK DRAIN
ELEVATION VIEW
NOT TO SCALE



8 RESERVOIR FOUNDATION
ELEVATION VIEW
NOT TO SCALE

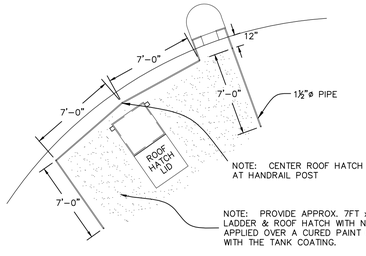


9 RESERVOIR FOUNDATION
ELEVATION VIEW
NOT TO SCALE

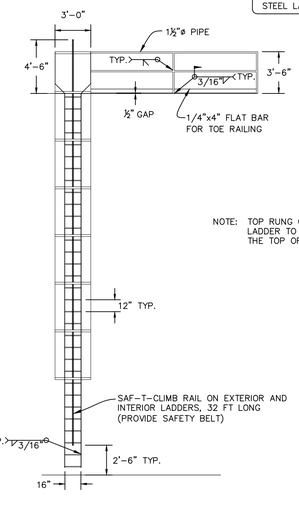


NOTE: 6" MAX. SPACING ON VERTICAL BARS

SECTION A-A

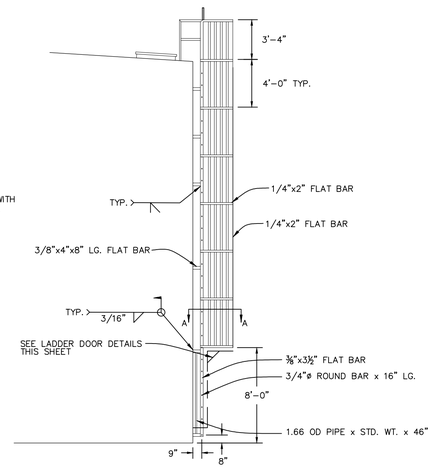


10 OUTSIDE LADDER
PLAN VIEW
NOT TO SCALE

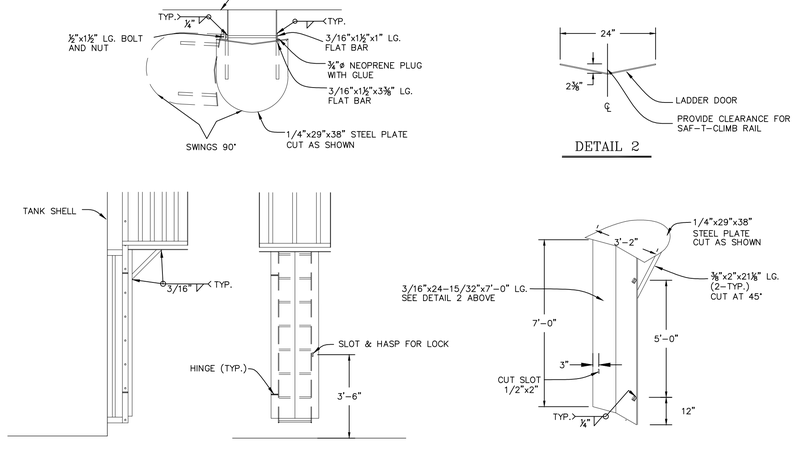


NOTE: INSIDE TANK LADDER SHALL BE STAINLESS STEEL AND CONSTRUCTED IN ACCORDANCE WITH AWWA D100 & CAL OSHA REQUIREMENTS. CONTRACTOR SHALL INSTALL CATHODIC ISOLATION KITS TO PREVENT CONTACT OF STAINLESS STEEL LADDER WITH STEEL TANK.

NOTE: TOP RUNG OF OUTSIDE LADDER TO BE FLUSH WITH THE TOP OF THE TANK.



11 OUTSIDE LADDER
ELEVATION VIEW
NOT TO SCALE



12 LADDER DOOR
ELEVATION VIEW
NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
1			
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DEE JASPAR & ASSOCIATES, INC.
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661 393-4798
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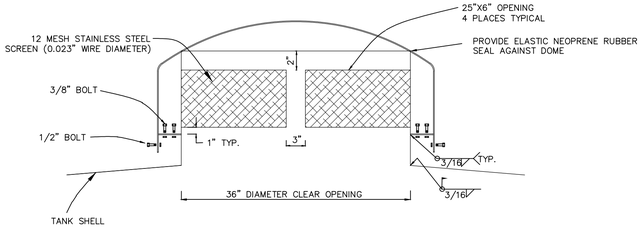
KELSO VALLEY TANK DETAILS

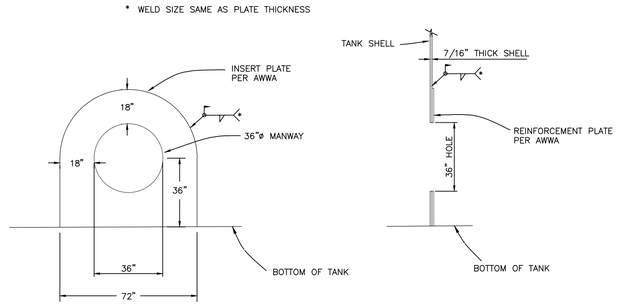
74'ø x 30' HIGH WELDED STEEL RESERVOIR

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

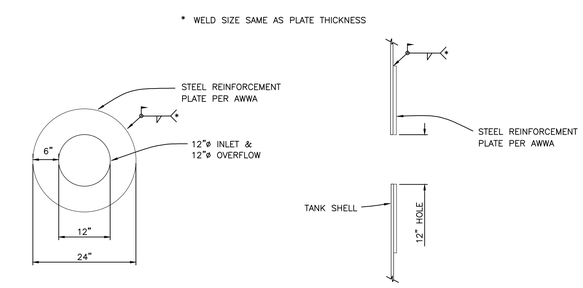
DRAWN: KRW
CHECKED: CMS
DATE: 3/1/2017
SCALE: NOT TO SCALE
FILE:
JOB NO.:
SHEET: 104
OF 97 SHEETS



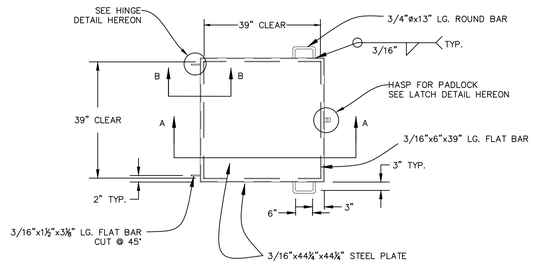
13 ROOF VENT
ELEVATION VIEW
NOT TO SCALE



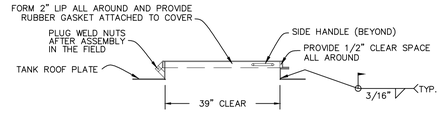
14 REINF. @ 36" MANWAYS
NOT TO SCALE



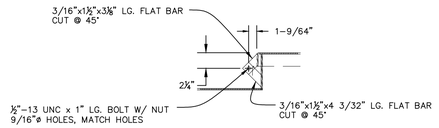
15 REINF. @ 12" INLET & OVERFLOW
NOT TO SCALE



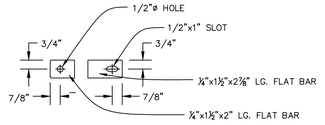
PLAN VIEW



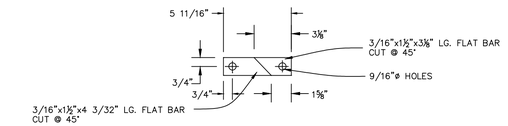
SECTION A–A
ELEVATION VIEW



SECTION B–B
ELEVATION VIEW

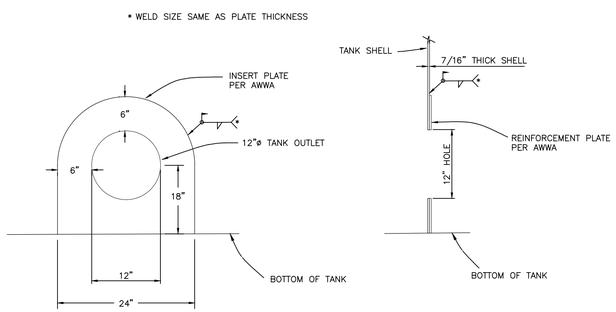


LATCH DETAIL

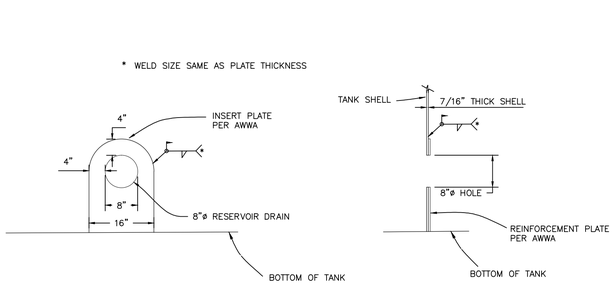


HINGE DETAIL

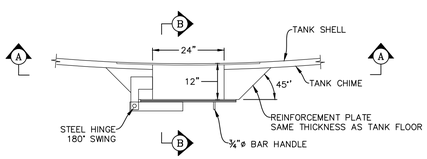
16 ROOF HATCHES
PLAN VIEW
NOT TO SCALE



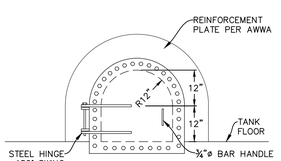
17 REINF. @ 12" OUTLET
NOT TO SCALE



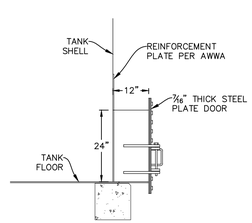
18 REINF. @ 8" RESERVOIR DRAIN
NOT TO SCALE



PLAN VIEW



SECTION A–A



SECTION B–B

NOTE: THICKNESS FOR ALL STEEL PLATES SHALL, AT A MINIMUM, MATCH THE THICKNESS OF THE TANK SHELL AT THE MANWAY LOCATION.

19 24" WASHOUT MANWAY
NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
1	1/14/16	ISSUED FOR BID	JJP
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DEE JASPAR & ASSOCIATES, INC.
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PORTERVILLE, CALIFORNIA 93257
PHONE 559 791-9286
FAX 559 783-9275

KELSO VALLEY TANK DETAILS

74'ø x 30' HIGH WELDED STEEL RESERVOIR

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN: KRW
CHECKED: CMS
DATE: 3/1/2017
SCALE: NOT TO SCALE
FILE:
JOB NO.
SHEET: 105
OF 97 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\105. KV TANK DETAILS.DWG 8/23/2017 8:59 AM

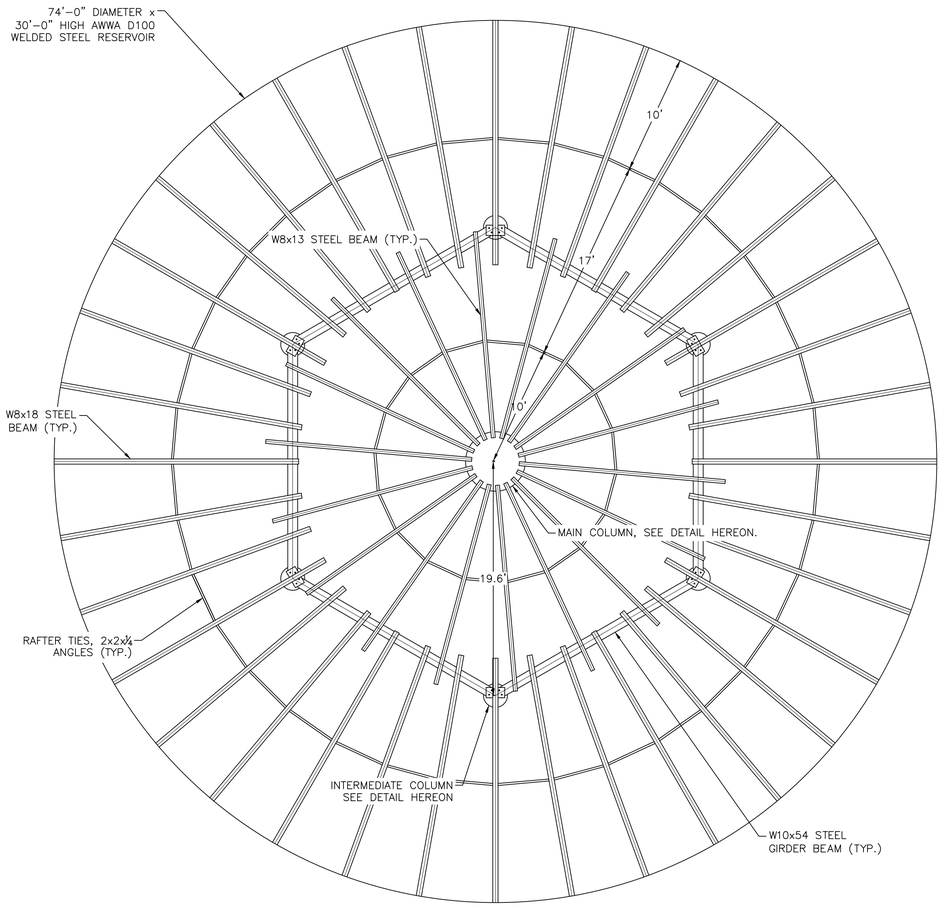
ALL ROOF PLATE LAPS AS WELL AS THE SEAM BETWEEN THE ROOF AND SHELL SHALL BE CAULKED

ALL PERMANENT ATTACHMENTS WELDED TO THE TANK SHALL BE TESTED USING DYE PENETRANT OR MAG PARTICLE.

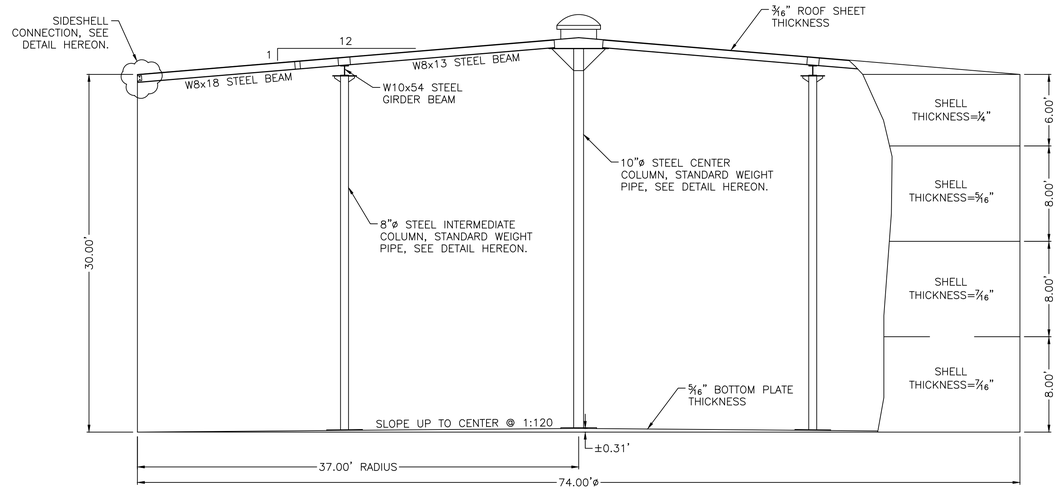
ALL VERTICAL JOINT WELDS SHALL ACHIEVE 100% PENETRATION & FUSION. SEE SPECS.

ALL HORIZONTAL JOINT WELDS SHALL ACHIEVE 100% PENETRATION & FUSION. SEE SPECS.

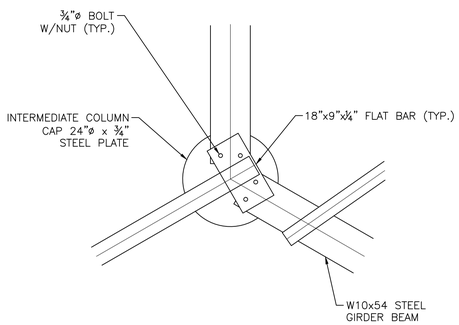
ALL WASHERS FOR THE RESERVOIR NUTS & BOLTS SHALL BE SAE WASHERS.



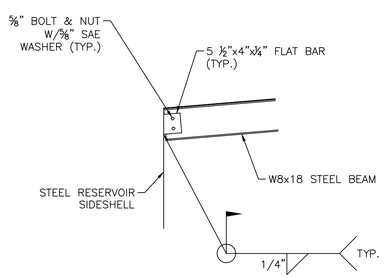
STRUCTURAL LAYOUT–PLAN VIEW
SCALE: 1"=6'



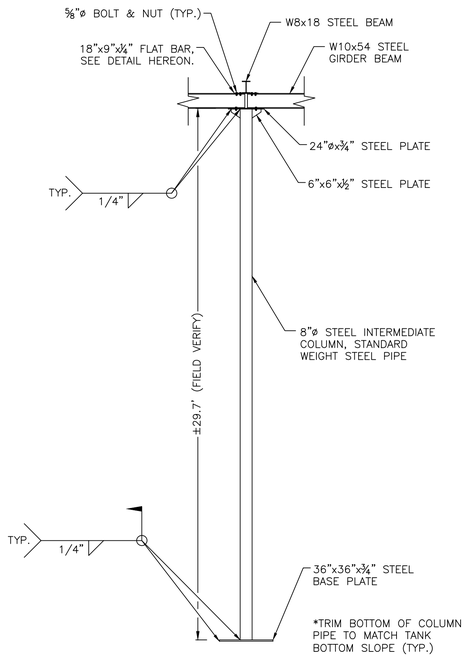
STRUCTURAL LAYOUT–ELEVATION VIEW
SCALE: 1"=6'



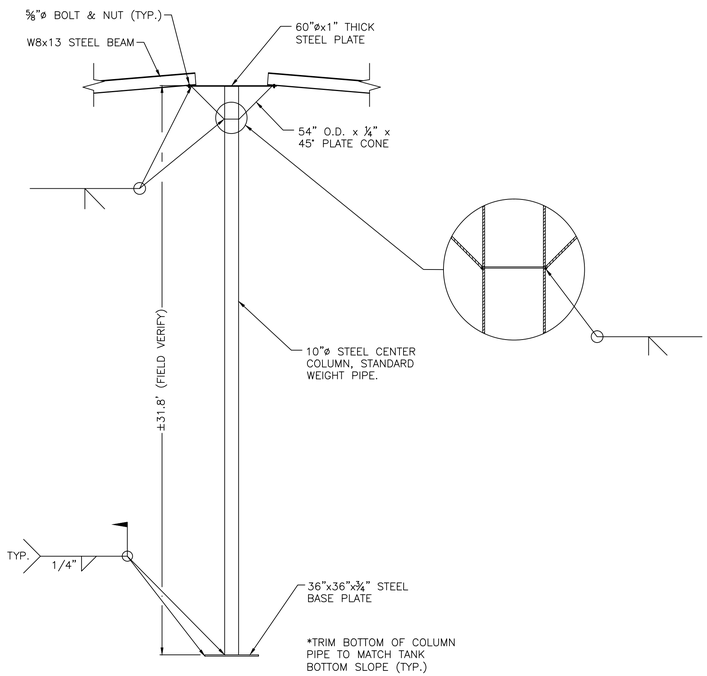
INTERMEDIATE COLUMN CAP DETAIL–PLAN VIEW
SCALE: NTS



SIDESHELL CONNECTION–ELEVATION VIEW
SCALE: NTS



INTERMEDIATE COLUMN–ELEVATION VIEW
SCALE: NTS



CENTER COLUMN–ELEVATION VIEW
SCALE: NTS

REV.	DATE	DESCRIPTION	BY
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DEE JASPAR & ASSOCIATES, INC.
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PHONE 559 791-9286
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KV TANK STRUCTURAL DESIGN

74'ø x 30' HIGH WELDED STEEL RESERVOIR

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	1/25/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	106
OF	97 SHEETS

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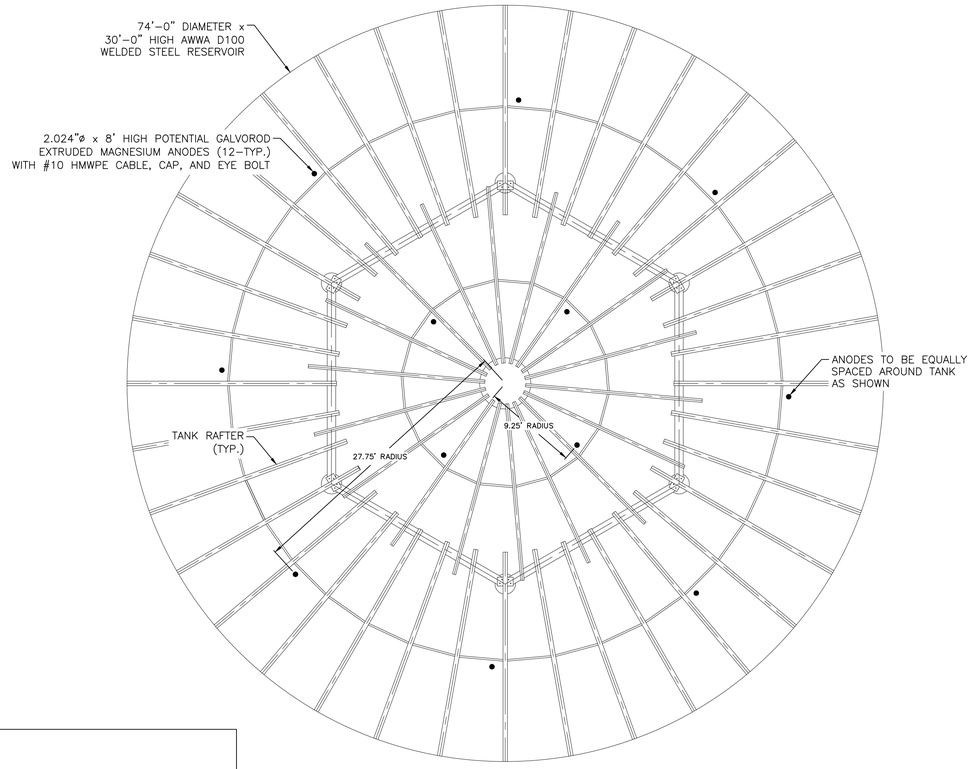
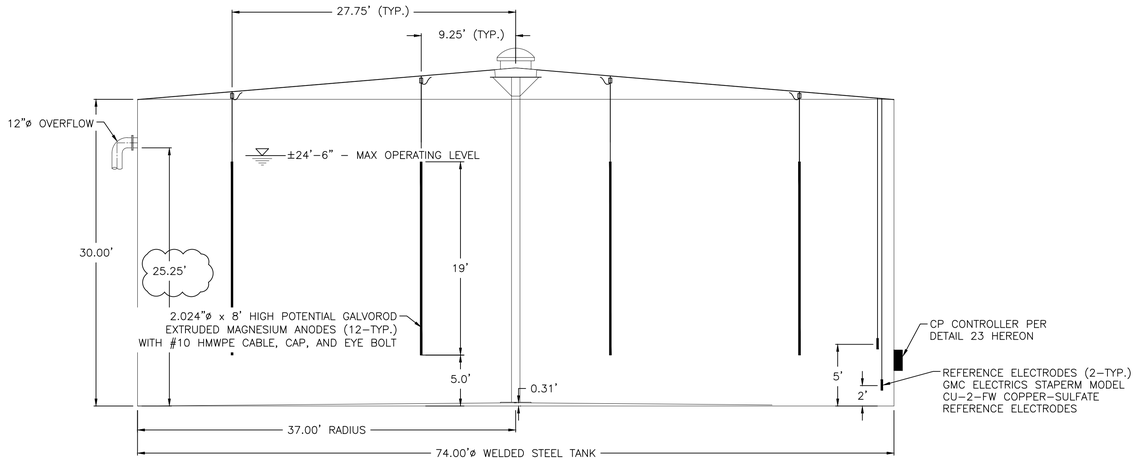


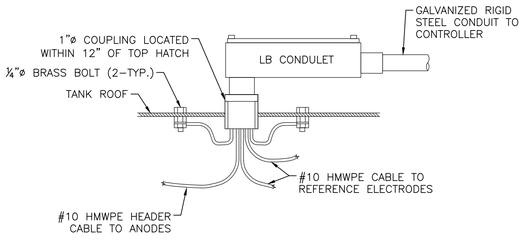
ANODE LAYOUT
PLAN VIEW



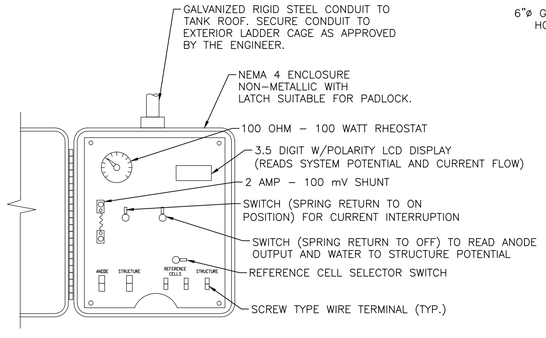
ANODE LAYOUT
ELEVATION VIEW

NOTES:

1. CATHODIC PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED BY A COMPANY SPECIALIZING IN CATHODIC PROTECTION.
2. THE NUMBER OF ANODES SHALL BE BASED ON THE DESIGN SUBMITTED BY THE CONTRACTOR. ANODE LAYOUT SHALL BE EQUALLY SPACED THROUGHOUT THE TANK INTERIOR AND SHALL BE DESIGNED TO AVOID TANK RAFTERS.

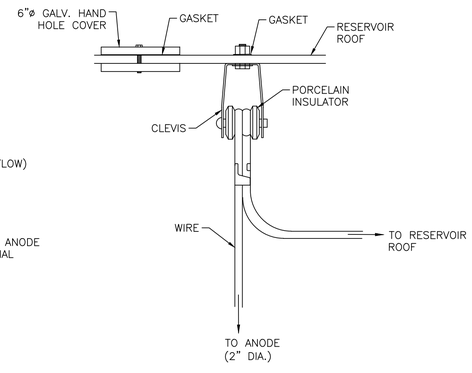


22 CONDUIT ENTRANCE
NOT TO SCALE

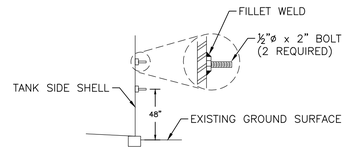


CONTROLLER SHALL BE A POWERMAG 1000
AUTO–POTENTIAL MAGNESIUM ANODE CONTROLLER
MANUFACTURED BY FARWEST CORROSION
CONTROL COMPANY OR APPROVED EQUAL.

23 CATHODIC PROTECTION CONTROLLER
NOT TO SCALE

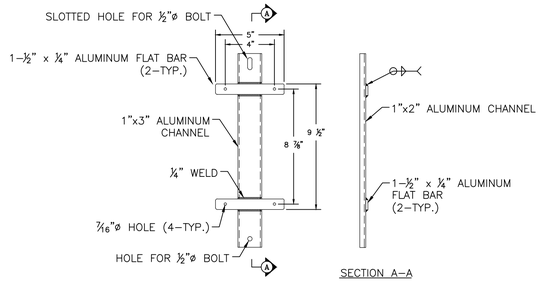


24 HAND HOLE & ANODE DETAIL
ELEVATION VIEW
NOT TO SCALE



CONTROLLER LOCATION

NOTE: LOCATE CONTROLLER NEXT TO TANK LADDER AS APPROVED BY THE ENGINEER



25 CONTROLLER MOUNTING BRACKET
NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
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DEE JASPAR & ASSOCIATES, INC.
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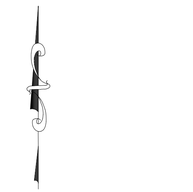
KV TANK CATHODIC PROTECTION SYSTEM

WELDON REGIONAL WATER SYSTEM PROJECT

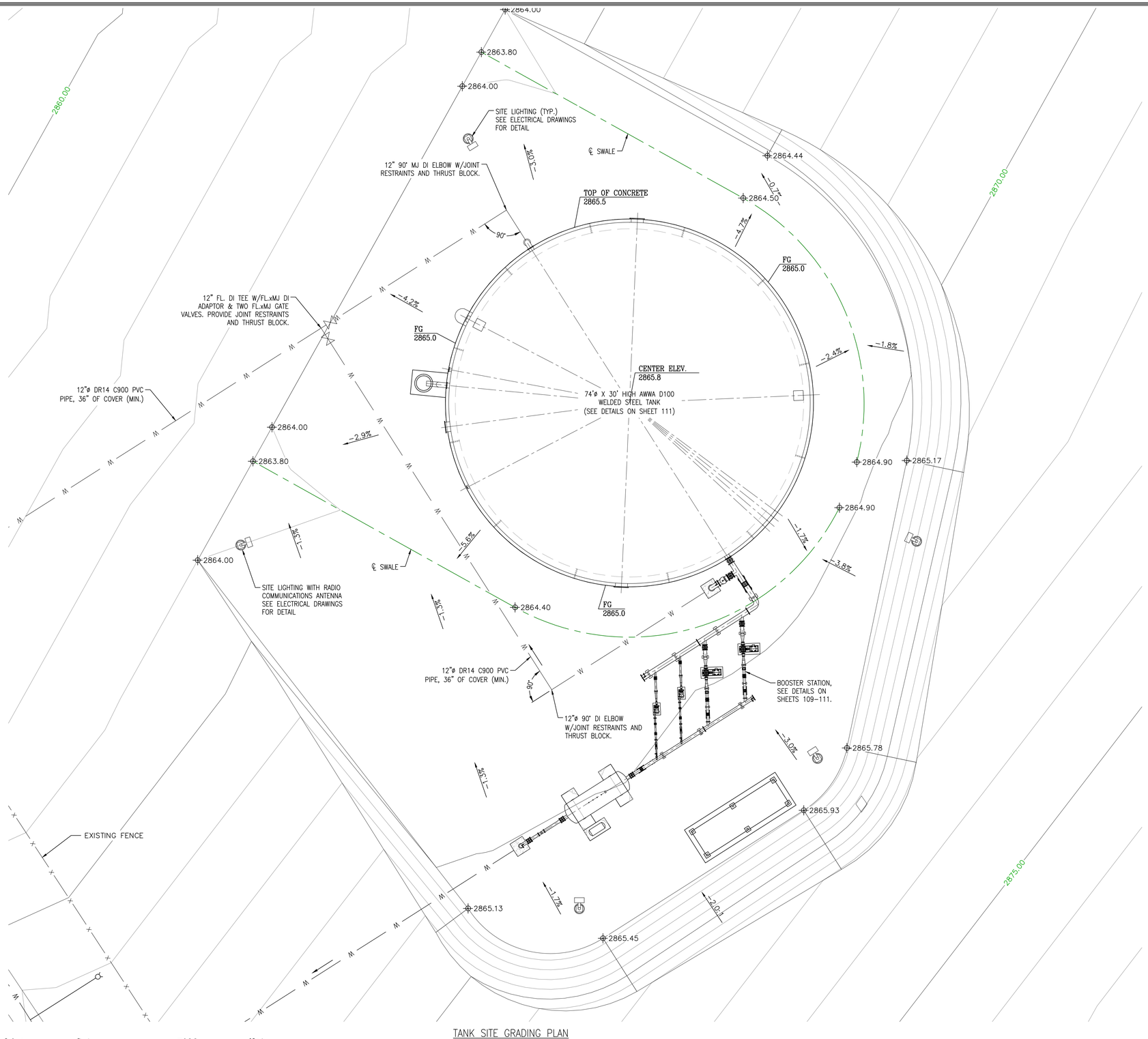
KERN COUNTY WATER AGENCY
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	3/14/207
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	107
OF	97 SHEETS



NOTES:

1. CONTRACTOR SHALL CLEAR AND GRUB THE AREA IN THE LOCATION OF WORK, INCLUDING BUT NOT LIMITED TO, THE STORAGE TANK AREA, BOOSTER PUMP AREA, HYDROPNEUMATIC TANK AREA, PIPELINE ROUTES, AND ANY BORROW AREAS. CLEARING AND GRUBBING MATERIAL SHALL BE DISPOSED OF AS DIRECTED BY THE ENGINEER AND SHALL NOT BE INCORPORATED INTO BACKFILL OR FILL MATERIAL.
2. OVEREXCAVATE MINIMUM OF 18", SCARIFY 8", AND RECOMPACT TO 90% RELATIVE COMPACTION WITH LIMITS BEING A MINIMUM OF 5 FEET BEYOND PERIMETER OF STRUCTURES. BACKFILL AND COMPACTION SHALL BE PERFORMED WITH A MINIMUM OF TWO LIFTS.
3. AREAS TO RECEIVE EARTH FILL SHALL BE SCARIFIED 8", MOISTURE CONDITIONED TO SLIGHTLY ABOVE OPTIMUM, AND COMPACTED TO 90% RELATIVE COMPACTION.
4. FILL MATERIAL SHALL BE PLACED IN UNIFORM LOOSE LIFTS NOT TO EXCEED 8", MOISTURE CONDITIONED AS SPECIFIED, AND COMPACTED TO 90% RELATIVE COMPACTION.
5. FINISH GRADING SHALL BE TO THE LINES AND GRADES SHOWN HEREON.
6. ALL FILL SLOPES AND AREAS OF CUT SHALL LEAVE SLOPES THAT DO NOT EXCEED 2:1 (HORIZONTAL:VERTICAL).



TANK SITE GRADING PLAN
SCALE: 1" = 10'

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Kelso Valley Tank Pad	**1.000**	**1.000**	137.39acres	1688.15 Cu. Yd.	0.18 Cu. Yd.	1687.97 Cu. Yd.<Cut>
Totals			137.39acres	1688.15 Cu. Yd.	0.18 Cu. Yd.	1687.97 Cu. Yd.<Cut>

REV.	DATE	DESCRIPTION	BY
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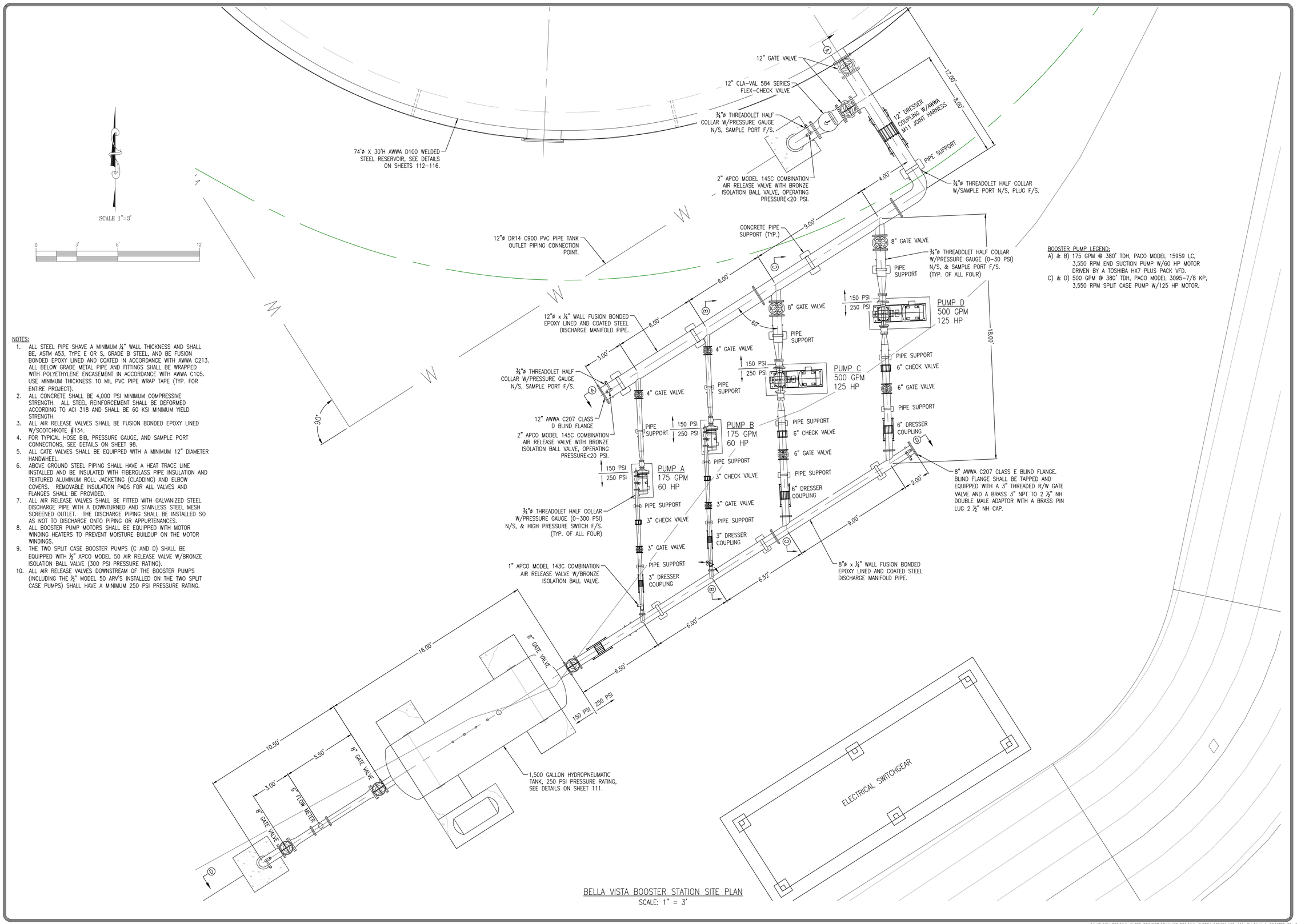
BELLA VISTA TANK SITE GRADING PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN KRW
CHECKED CMS
DATE 3/21/2017
SCALE AS SHOWN
FILE
JOB NO.
SHEET 108
OF 97 SHEETS



BOOSTER PUMP LEGEND:
A) & B) 175 GPM @ 380' TDH, PACO MODEL 15959 LC, 3,550 RPM END SUCTION PUMP W/60 HP MOTOR DRIVEN BY A TOSHIBA HX7 PLUS PACK VFD.
C) & D) 500 GPM @ 380' TDH, PACO MODEL 3095-7/8 KP, 3,550 RPM SPLIT CASE PUMP W/125 HP MOTOR.

NOTES:
1. ALL STEEL PIPE SHAVE A MINIMUM ¼" WALL THICKNESS AND SHALL BE, ASTM A53, TYPE E OR S, GRADE B STEEL, AND BE FUSION BONDED EPOXY LINED AND COATED IN ACCORDANCE WITH AWWA C213. ALL BELOW GRADE METAL PIPE AND FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE ENCASEMENT IN ACCORDANCE WITH AWWA C105. USE MINIMUM THICKNESS 10 MIL PVC PIPE WRAP TAPE (TYP. FOR ENTIRE PROJECT).
2. ALL CONCRETE SHALL BE 4,000 PSI MINIMUM COMPRESSIVE STRENGTH. ALL STEEL REINFORCEMENT SHALL BE DEFORMED ACCORDING TO ACI 318 AND SHALL BE 60 KSI MINIMUM YIELD STRENGTH.
3. ALL AIR RELEASE VALVES SHALL BE FUSION BONDED EPOXY LINED W/SCOTCHKOTE #134.
4. FOR TYPICAL HOSE BIB, PRESSURE GAUGE, AND SAMPLE PORT CONNECTIONS, SEE DETAILS ON SHEET 98.
5. ALL GATE VALVES SHALL BE EQUIPPED WITH A MINIMUM 12" DIAMETER HANDWHEEL.
6. ABOVE GROUND STEEL PIPING SHALL HAVE A HEAT TRACE LINE INSTALLED AND BE INSULATED WITH FIBERGLASS PIPE INSULATION AND TEXTURED ALUMINUM ROLL JACKETING (CLADDING) AND ELBOW COVERS. REMOVABLE INSULATION PADS FOR ALL VALVES AND FLANGES SHALL BE PROVIDED.
7. ALL AIR RELEASE VALVES SHALL BE FITTED WITH GALVANIZED STEEL DISCHARGE PIPE WITH A DOWNTURNED AND STAINLESS STEEL MESH SCREENED OUTLET. THE DISCHARGE PIPING SHALL BE INSTALLED SO AS NOT TO DISCHARGE ONTO PIPING OR APPURTENANCES.
8. ALL BOOSTER PUMP MOTORS SHALL BE EQUIPPED WITH MOTOR WINDING HEATERS TO PREVENT MOISTURE BUILDUP ON THE MOTOR WINDINGS.
9. THE TWO SPLIT CASE BOOSTER PUMPS (C AND D) SHALL BE EQUIPPED WITH ½" APCO MODEL 50 AIR RELEASE VALVE W/BRONZE ISOLATION BALL VALVE (300 PSI PRESSURE RATING).
10. ALL AIR RELEASE VALVES DOWNSTREAM OF THE BOOSTER PUMPS (INCLUDING THE ½" MODEL 50 ARV'S INSTALLED ON THE TWO SPLIT CASE PUMPS) SHALL HAVE A MINIMUM 250 PSI PRESSURE RATING.

BELLA VISTA BOOSTER STATION SITE PLAN
SCALE: 1" = 3'

REV.	DATE	DESCRIPTION	BY
1			
2			
3			
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2720 UNICORN ROAD, BLDG A
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FAX 559 783-9275

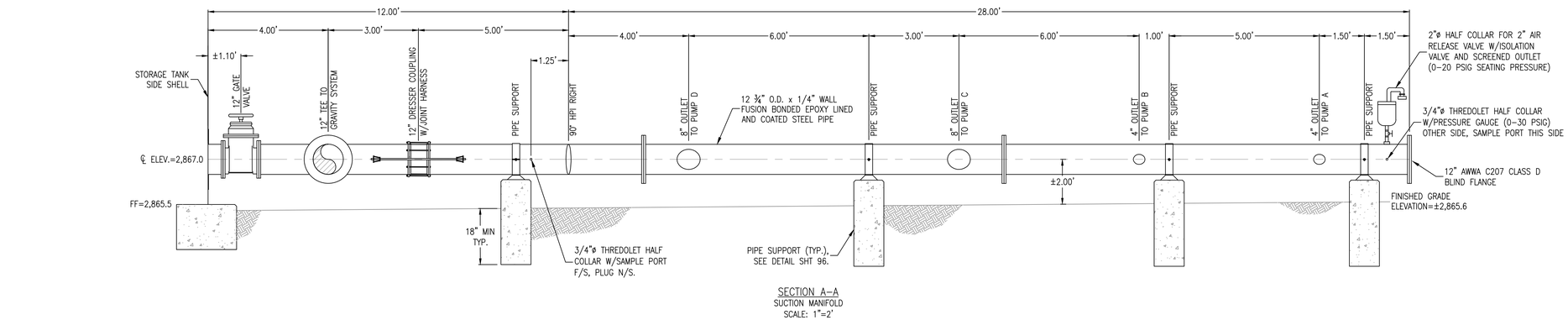
BELLA VISTA BOOSTER STATION SITE PLAN

WELDON REGIONAL WATER SYSTEM

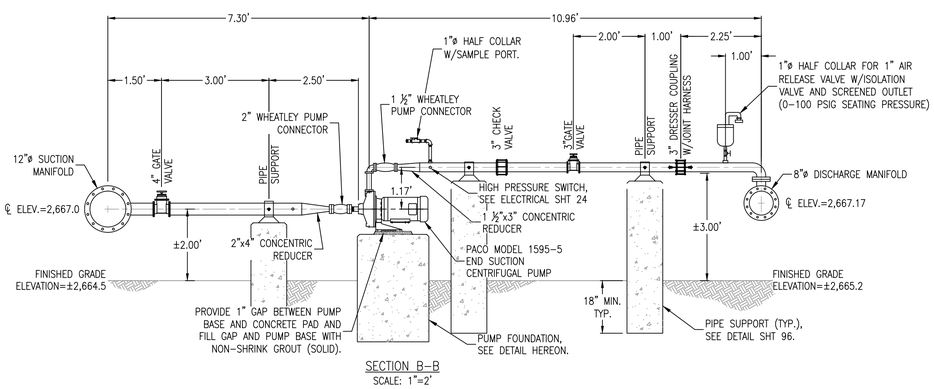
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	3/21/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	109
OF	97 SHEETS

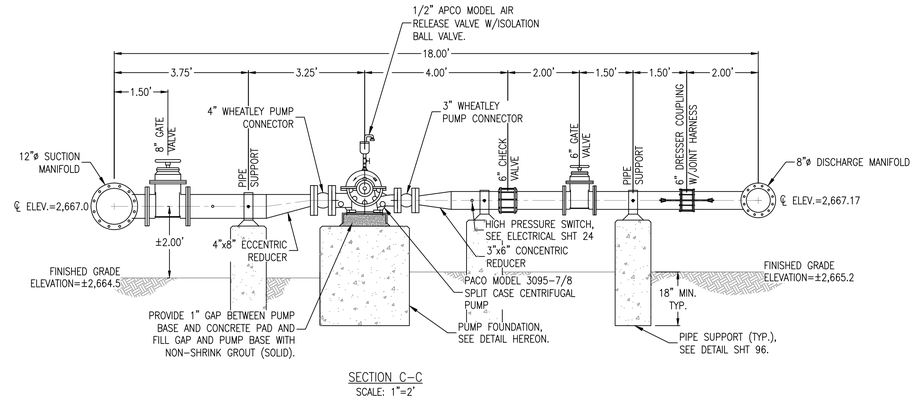
S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\108-109. BV TANK & BOOSTER STA SITE & GRADING PLAN.DWG 9/6/2017 5:34 PM



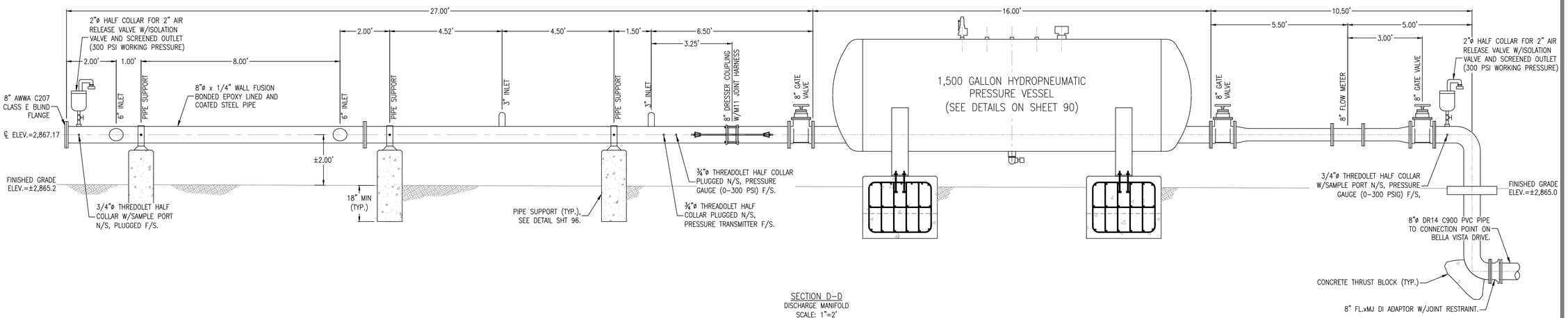
SECTION A–A
SUCTION MANIFOLD
SCALE: 1"=2'



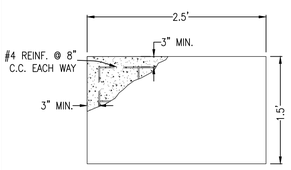
SECTION B–B
SCALE: 1"=2'



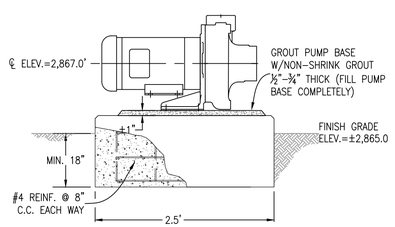
SECTION C–C
SCALE: 1"=2'



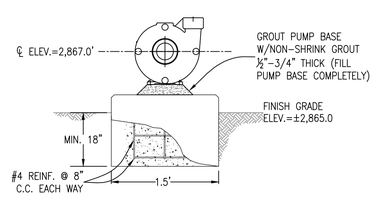
SECTION D–D
DISCHARGE MANIFOLD
SCALE: 1"=2'



PLAN VIEW

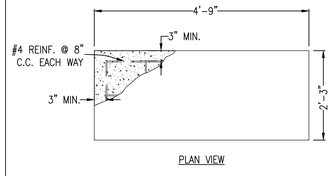


ELEVATION VIEW

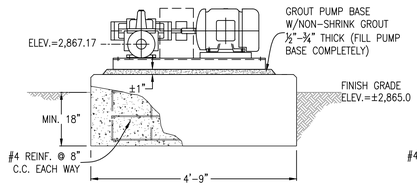


ELEVATION VIEW

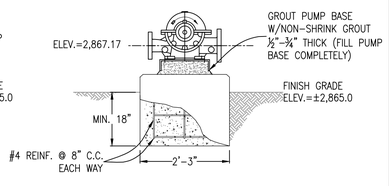
END SUCTION PUMP BASE DETAIL
NTS



PLAN VIEW



ELEVATION VIEW



ELEVATION VIEW

SPLIT CASE PUMP BASE DETAIL
NTS

REV.	DATE	DESCRIPTION	BY
1			
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DEE JASPAR & ASSOCIATES, INC.
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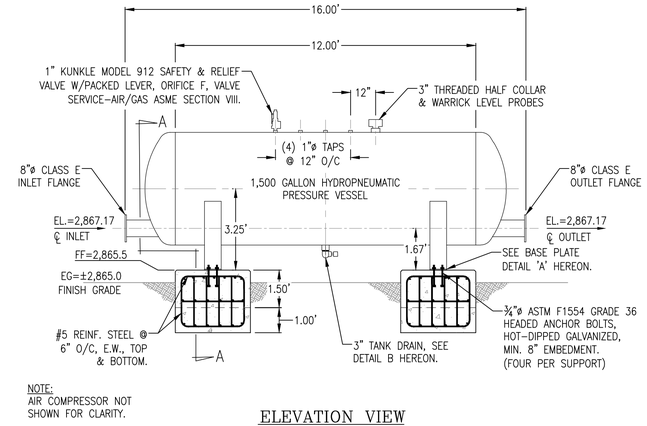
3701 PEGASUS DRIVE, SUITE 121 BAKERSFIELD, CALIFORNIA 93308
PHONE 661 393-4799
FAX 661 393-4799

BV BOOSTER STATION–ELEVATION

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

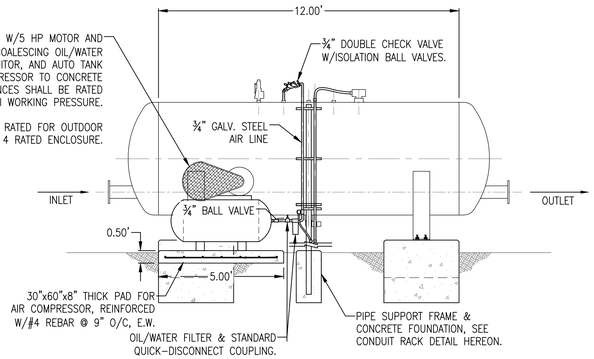
DRAWN	KRW
CHECKED	CMS
DATE	3/23/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	110
OF	97 SHEETS



ELEVATION VIEW
AIR CHAMBER DETAIL

GARDNER DENVER PL-SERIES AIR COMPRESSOR W/5 HP MOTOR AND 30 GALLON RECEIVER TANK, AFTERCOOLER, COALESCING OIL/WATER FILTER, VIBRATION ISOLATORS, OIL LEVEL MONITOR, AND AUTO TANK DRAIN. CONTRACTOR SHALL ANCHOR COMPRESSOR TO CONCRETE FOUNDATION. AIR COMPRESSOR AND APPURTENANCES SHALL BE RATED FOR 250 PSI WORKING PRESSURE.

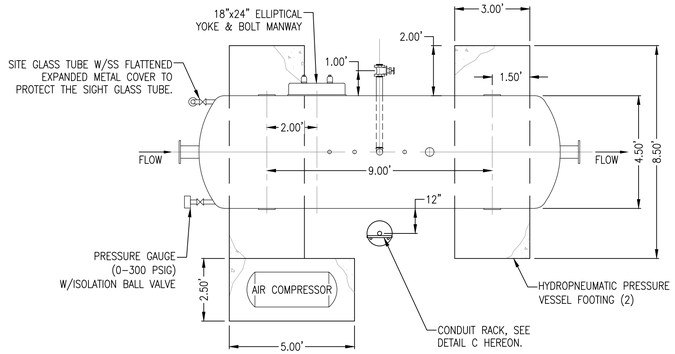
ALL ELECTRICAL AND CONTROLS SHALL BE RATED FOR OUTDOOR WEATHER AND IN A NEMA 4 RATED ENCLOSURE.



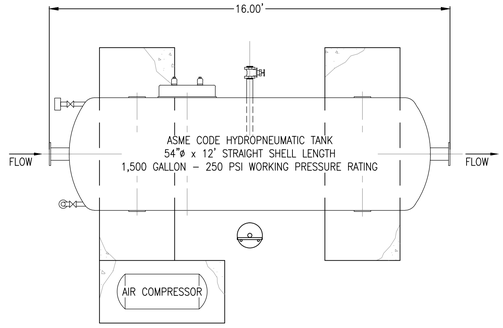
ELEVATION VIEW
AIR CHAMBER PIPING DETAIL

ALL CONCRETE SHALL BE 4,000 psi MINIMUM COMPRESSIVE STRENGTH. ALL STEEL REINFORCEMENT SHALL BE DEFORMED ACCORDING TO ACI 318 AND SHALL BE 60 ksi MINIMUM YIELD STRENGTH.

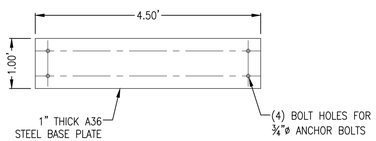
HYDROPNEUMATIC VESSEL SHALL BE EPOXY LINED AND PAINTED PER THE SPECIFICATIONS



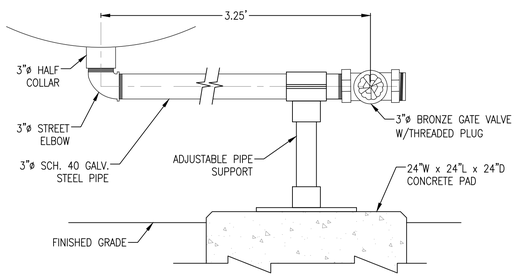
PLAN VIEW
AIR CHAMBER DETAIL



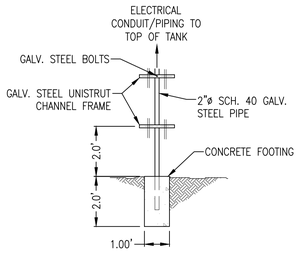
PLAN VIEW
AIR CHAMBER DETAIL



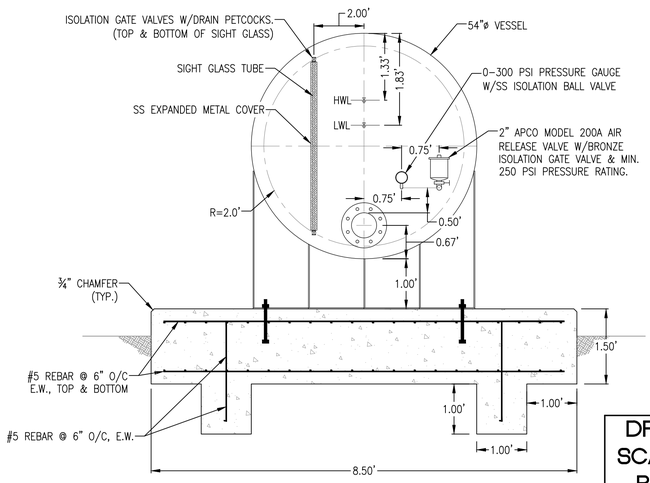
DETAIL 'A'
BASE PLATE DETAIL



DETAIL 'B'
AIR CHAMBER DRAIN



DETAIL 'C'
CONDUIT RACK



SECTION A
AIR CHAMBER

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

REV.	DATE	DESCRIPTION	BY
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DEE JASPAR & ASSOCIATES, INC.
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HYDROPNEUMATIC TANK DETAILS

WELDON REGIONAL WATER SYSTEM

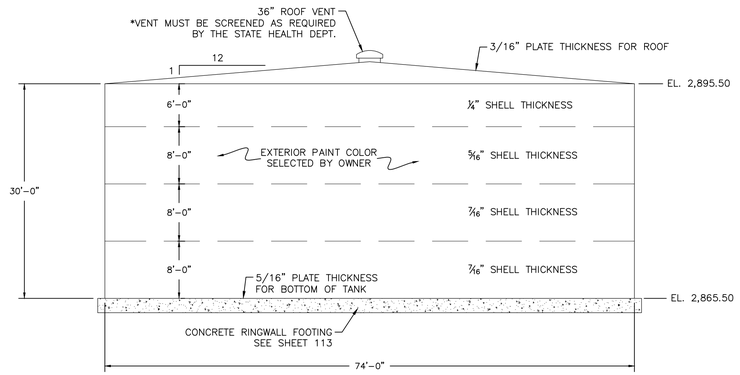
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	3/23/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	111
OF	97 SHEETS

NOTE: THE FINAL LOCATION OF ALL APPURTENANCES SHALL BE DETERMINED IN THE FIELD BY THE OWNER'S REPRESENTATIVE AND FIELD FOREMAN.

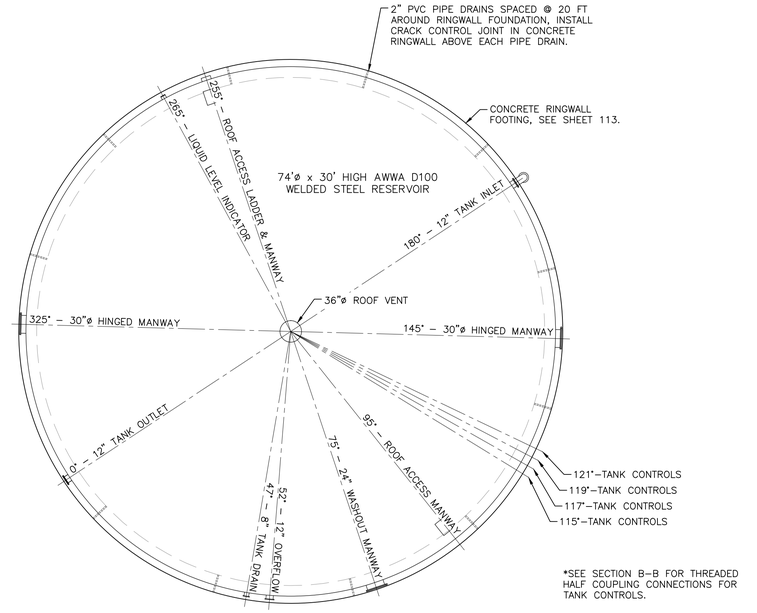
NOTE: ALL FLANGES SUPPLIED BY RESERVOIR MFG. SHALL BE AWWA C207 CLASS D.

ALL WELDS AND CONNECTIONS SHALL BE I.A.W. AWWA D100.



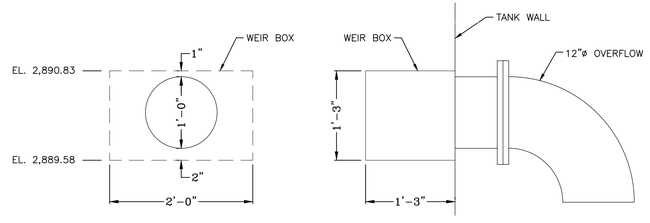
RESERVOIR SHELL
ELEVATION VIEW

ITEM #	SIZE	DESCRIPTION	ORIENTATION	ELEVATION
1	12"	12"ø RESERVOIR INLET	0°	2,892.5
2	–	ROOF ACCESS LADDER W/OSHA SAFETY CAGE	30°	–
3	8"	8"ø DRAIN	47°	2,866.33
4	12"	12"ø OVERFLOW	52°	2,890.83
5	24"	24"ø WASHOUT MANWAY	65°	–
6	–	LIQUID LEVEL INDICATOR	85°	–
7	36"	36"ø SHELL MANWAY	145°	2,868.5
8	12"	12"ø RESERVOIR OUTLET	180°	2,867.0
9	2"	2"ø FLANGED OUTLET FOR LEVEL TRANSMITTER	195°	2,866.0
10	2"	2"ø THREADED OUTLET W/PLUG	195°	2,881.67
11	2"	2"ø THREADED OUTLET W/LOW LEVEL FLOAT SWITCH	197°	2,868.17
12	2"	2"ø THREADED HALF COUPLING W/PLUG	197°	2,890.0
13	1"	2"ø THREADED HALF COUPLING W/BRONZE BALL VALVE & PLUG	199°	2,868.17
14	2"	2"ø THREADED HALF COUPLING W/PLUG	199°	2,890.0
15	36"	1"ø THREADED HALF COUPLING W/SAMPLE PORT	201°	2,868.17
16	–	2"ø THREADED HALF COUPLING W/HIGH LEVEL FLOAT SWITCH	201°	2,890.5
17	39" SQ.	ROOF ACCESS HATCH	245°	–
18	36"	36"ø SHELL MANWAY	325°	2,868.5

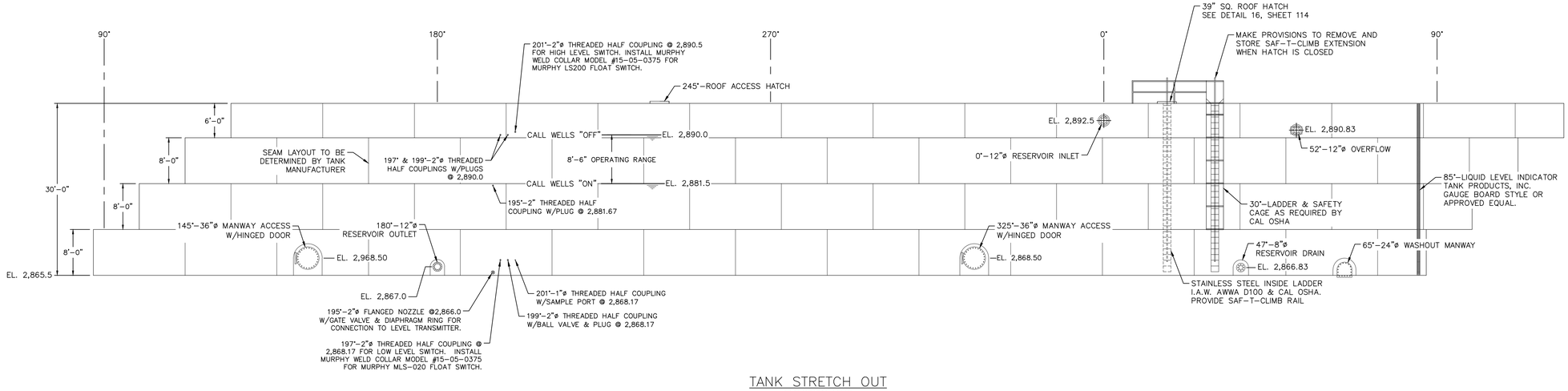


*SEE SECTION B–B FOR THREADED HALF COUPLING CONNECTIONS FOR TANK CONTROLS.

TANK APPURTENANCE LAYOUT
PLAN VIEW



OVERFLOW WEIR BOX DETAIL
ELEVATION VIEWS
NTS



TANK STRETCH OUT
ELEVATION VIEW

REV.	DATE	DESCRIPTION	BY
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
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BELLA VISTA TANK PLAN

74'ø x 30' HIGH AWWA D100 WELDED STEEL RESERVOIR

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	3/24/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	112
OF	97 SHEETS

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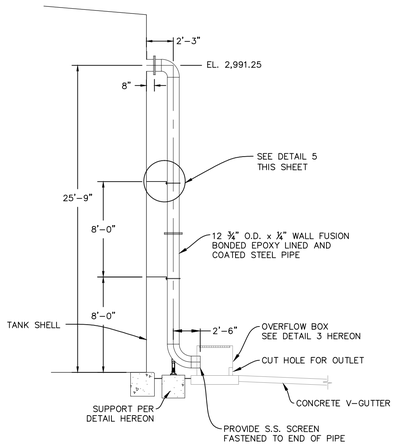
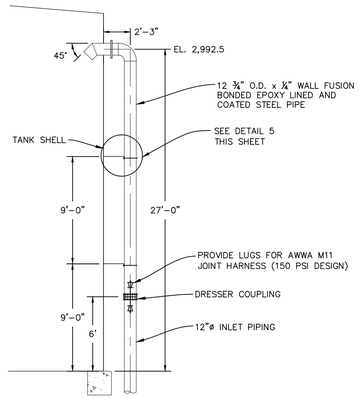
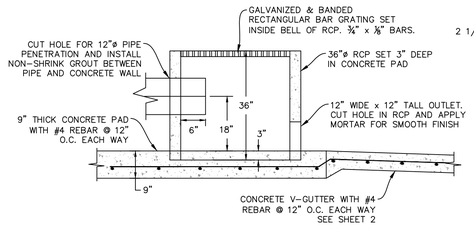


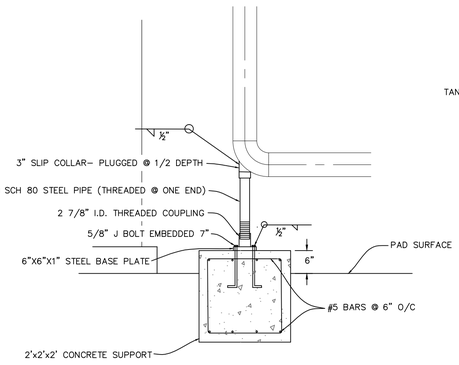
1 12"ø OVERFLOW
ELEVATION VIEW
NOT TO SCALE



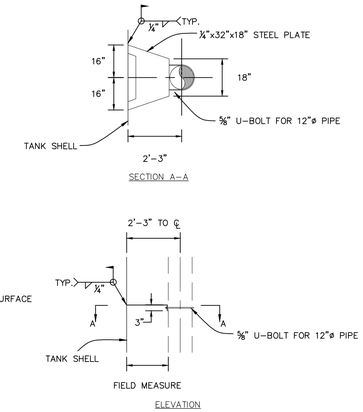
2 12"ø INLET
ELEVATION VIEW
NOT TO SCALE



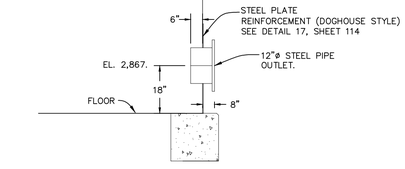
3 TANK OVERFLOW BOX
ELEVATION VIEW
NOT TO SCALE



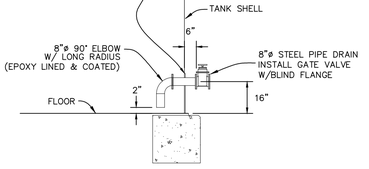
4 TANK OVERFLOW PIPING SUPPORT
ELEVATION VIEW
NOT TO SCALE



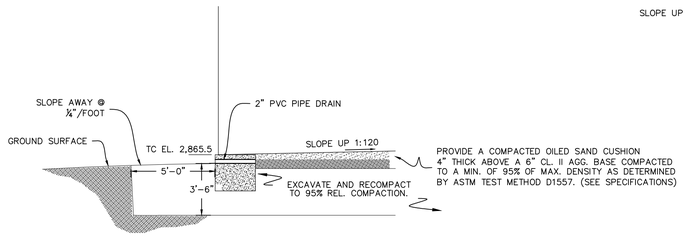
5 PIPING SUPPORT BRACKETS
NOT TO SCALE



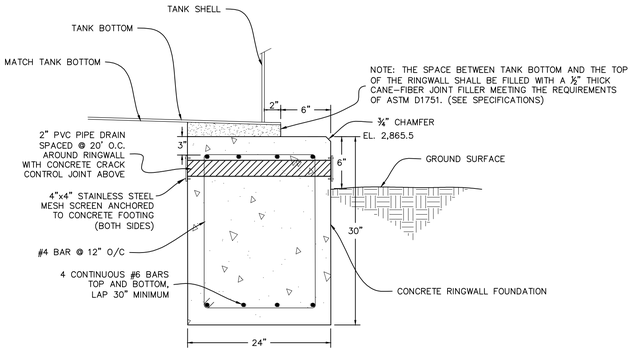
6 12"ø TANK OUTLET
ELEVATION VIEW
NOT TO SCALE



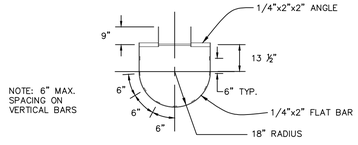
7 8"ø TANK DRAIN
ELEVATION VIEW
NOT TO SCALE



8 RESERVOIR FOUNDATION
ELEVATION VIEW
NOT TO SCALE

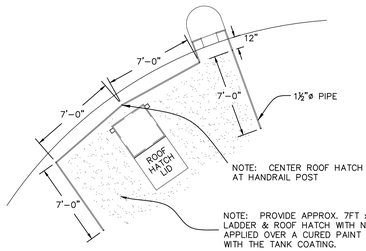


9 RESERVOIR FOUNDATION
ELEVATION VIEW
NOT TO SCALE

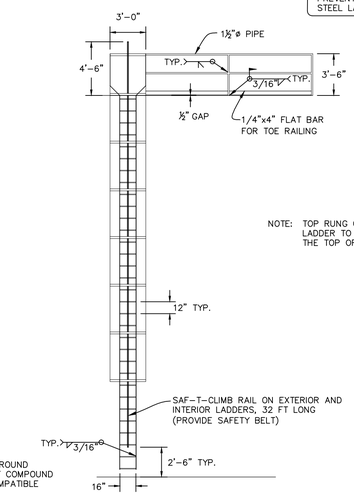


NOTE: 6" MAX.
SPACING ON
VERTICAL BARS

SECTION A-A

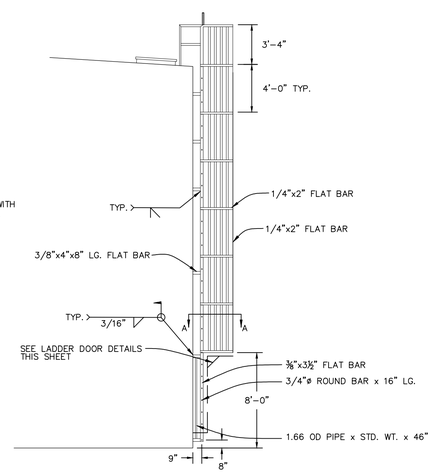


10 OUTSIDE LADDER
PLAN VIEW
NOT TO SCALE

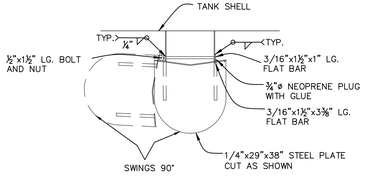


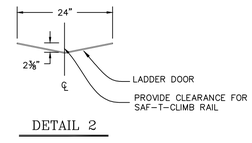
NOTE: INSIDE TANK LADDER SHALL BE STAINLESS STEEL AND CONSTRUCTED IN ACCORDANCE WITH AWWA D100 & CAL OSHA REQUIREMENTS. CONTRACTOR SHALL INSTALL CATHODIC ISOLATION KITS TO PREVENT CONTACT OF STAINLESS STEEL LADDER WITH STEEL TANK.

NOTE: TOP RUNG OF OUTSIDE LADDER TO BE FLUSH WITH THE TOP OF THE TANK.

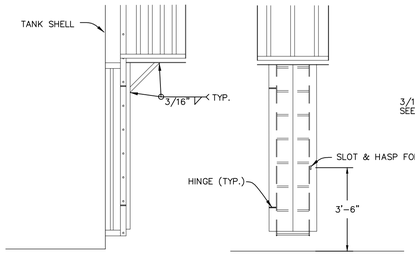


11 OUTSIDE LADDER
ELEVATION VIEW
NOT TO SCALE

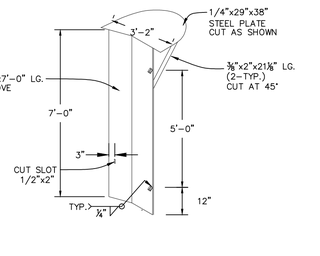




DETAIL 2



12 LADDER DOOR
ELEVATION VIEW
NOT TO SCALE



REV.	DATE	DESCRIPTION	BY
1			JJP
2			
3			
4			
5			
6			
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
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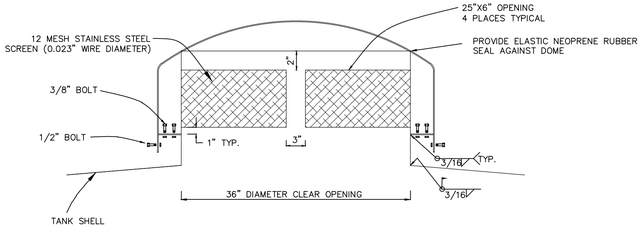
BELLA VISTA TANK DETAILS

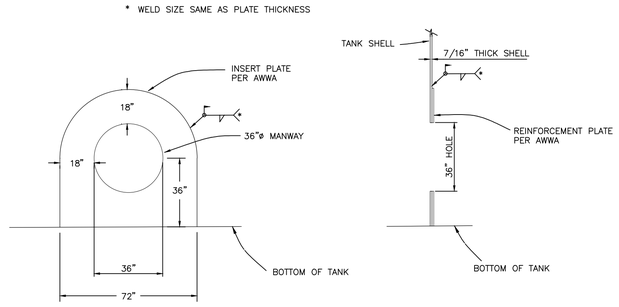
74'ø x 30' HIGH WELDED STEEL RESERVOIR

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

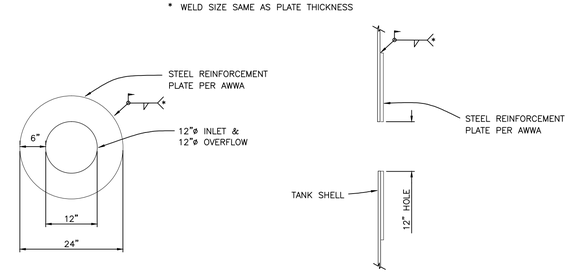
DRAWN	KRW
CHECKED	CMS
DATE	3/1/2017
SCALE	NOT TO SCALE
FILE	
JOB NO.	
SHEET	113
OF	97 SHEETS



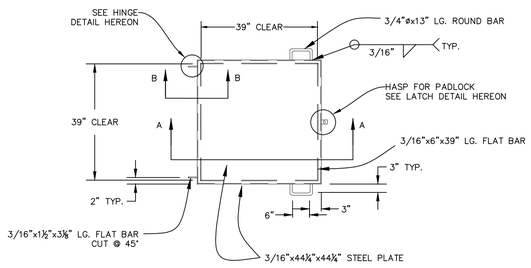
13 ROOF VENT
ELEVATION VIEW
NOT TO SCALE



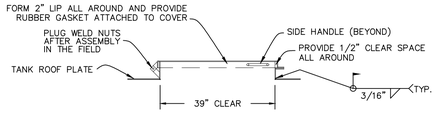
14 REINF. @ 36" MANWAYS
NOT TO SCALE



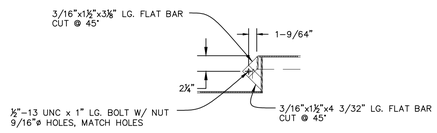
15 REINF. @ 12" INLET & OVERFLOW
NOT TO SCALE



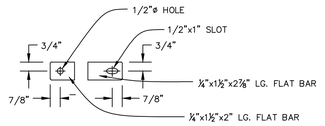
PLAN VIEW



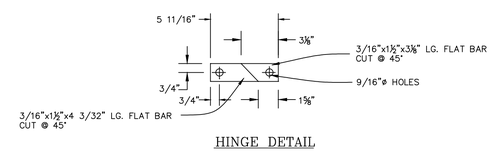
SECTION A–A
ELEVATION VIEW



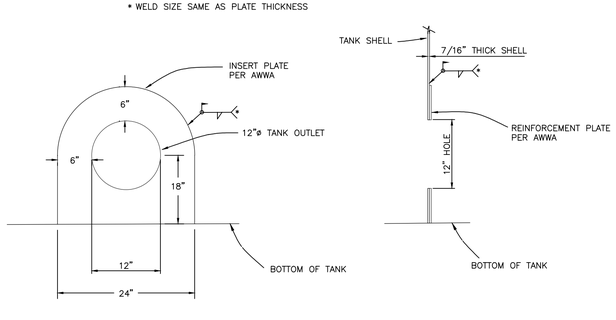
SECTION B–B
ELEVATION VIEW



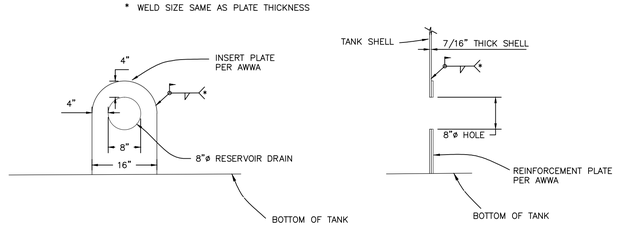
LATCH DETAIL



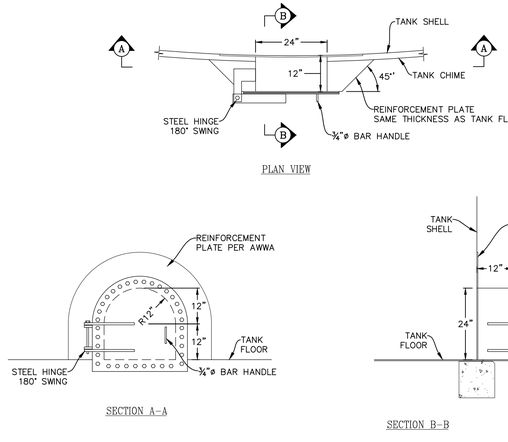
HINGE DETAIL



17 REINF. @ 12" OUTLET
NOT TO SCALE



18 REINF. @ 8" RESERVOIR DRAIN
NOT TO SCALE



19 24" WASHOUT MANWAY
NOT TO SCALE

NOTE: THICKNESS FOR ALL STEEL PLATES SHALL, AT A MINIMUM, MATCH THE THICKNESS OF THE TANK SHELL AT THE MANWAY LOCATION.

REV.	DATE	DESCRIPTION	BY
1	1/14/16	ISSUED FOR BID	JJP
2			
3			
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DEE JASPAR & ASSOCIATES, INC.
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PORTERVILLE, CALIFORNIA 93257
PHONE 559 791-9286
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BELLA VISTA TANK DETAILS

74'ø x 30' HIGH WELDED STEEL RESERVOIR

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	3/1/2017
SCALE	NOT TO SCALE
FILE	
JOB NO.	
SHEET	114
OF	97 SHEETS

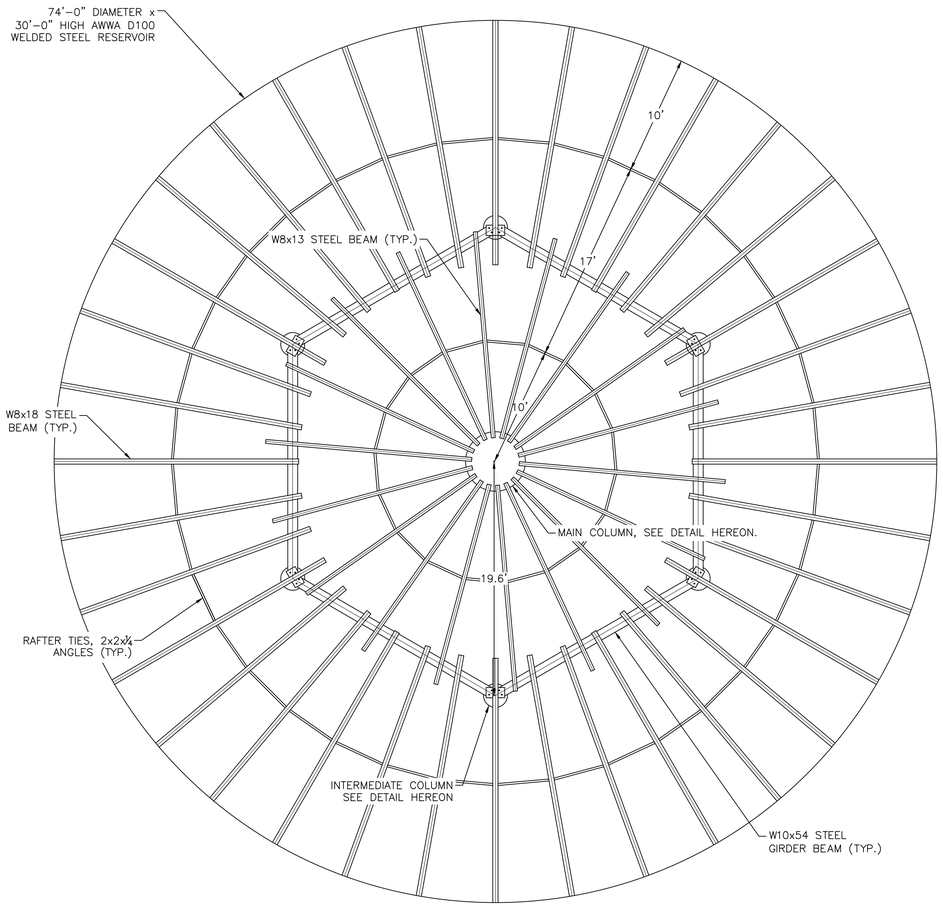
ALL ROOF PLATE LAPS AS WELL AS THE SEAM BETWEEN THE ROOF AND SHELL SHALL BE CAULKED

ALL PERMANENT ATTACHMENTS WELDED TO THE TANK SHALL BE TESTED USING DYE PENETRANT OR MAG PARTICLE.

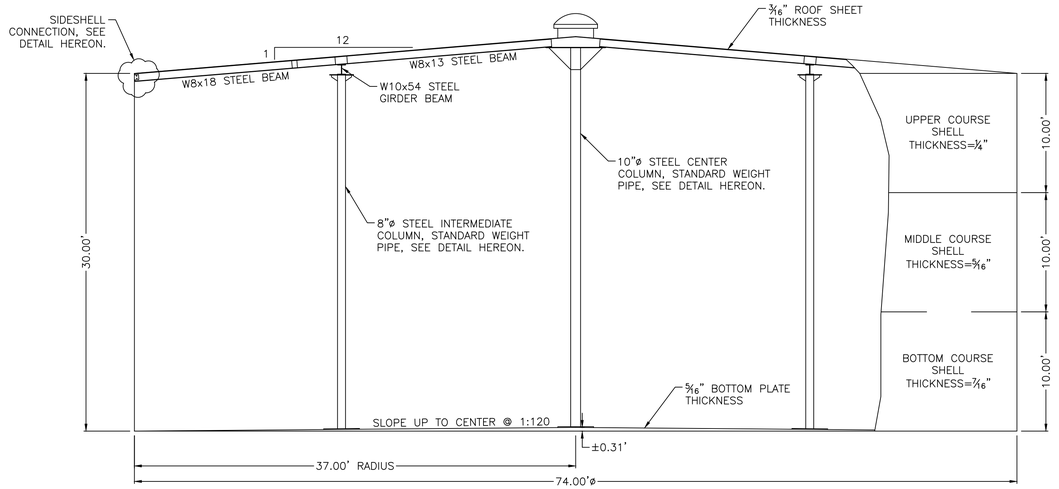
ALL VERTICAL JOINT WELDS SHALL ACHIEVE 100% PENETRATION & FUSION. SEE SPECS.

ALL HORIZONTAL JOINT WELDS SHALL ACHIEVE 100% PENETRATION & FUSION. SEE SPECS.

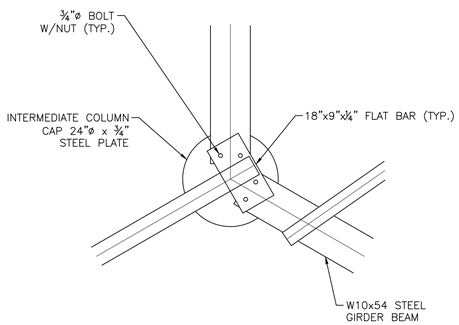
ALL WASHERS FOR THE RESERVOIR NUTS & BOLTS SHALL BE SAE WASHERS.



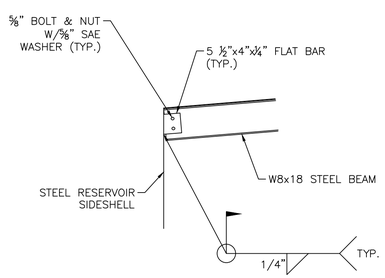
STRUCTURAL LAYOUT–PLAN VIEW
SCALE: 1"=6'



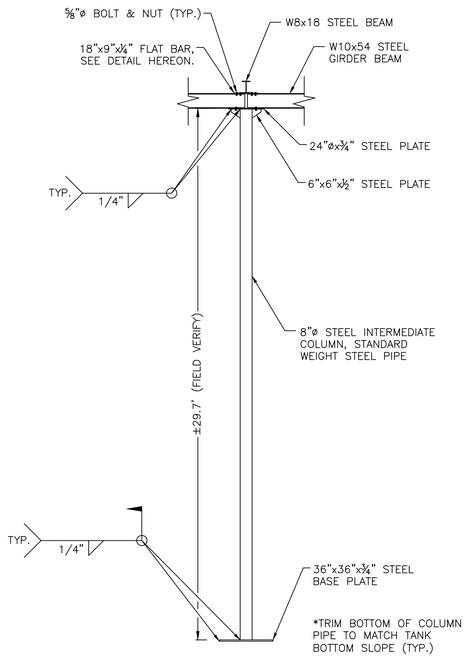
STRUCTURAL LAYOUT–ELEVATION VIEW
SCALE: 1"=6'



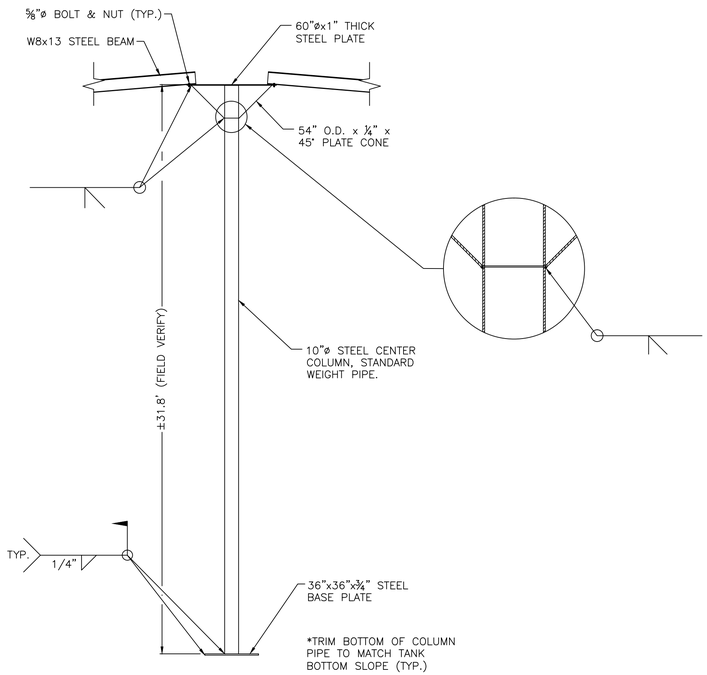
INTERMEDIATE COLUMN CAP DETAIL–PLAN VIEW
SCALE: NTS



SIDESHELL CONNECTION–ELEVATION VIEW
SCALE: NTS



INTERMEDIATE COLUMN–ELEVATION VIEW
SCALE: NTS



CENTER COLUMN–ELEVATION VIEW
SCALE: NTS

REV.	DATE	DESCRIPTION	BY
1			
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DEE JASPAR & ASSOCIATES, INC.
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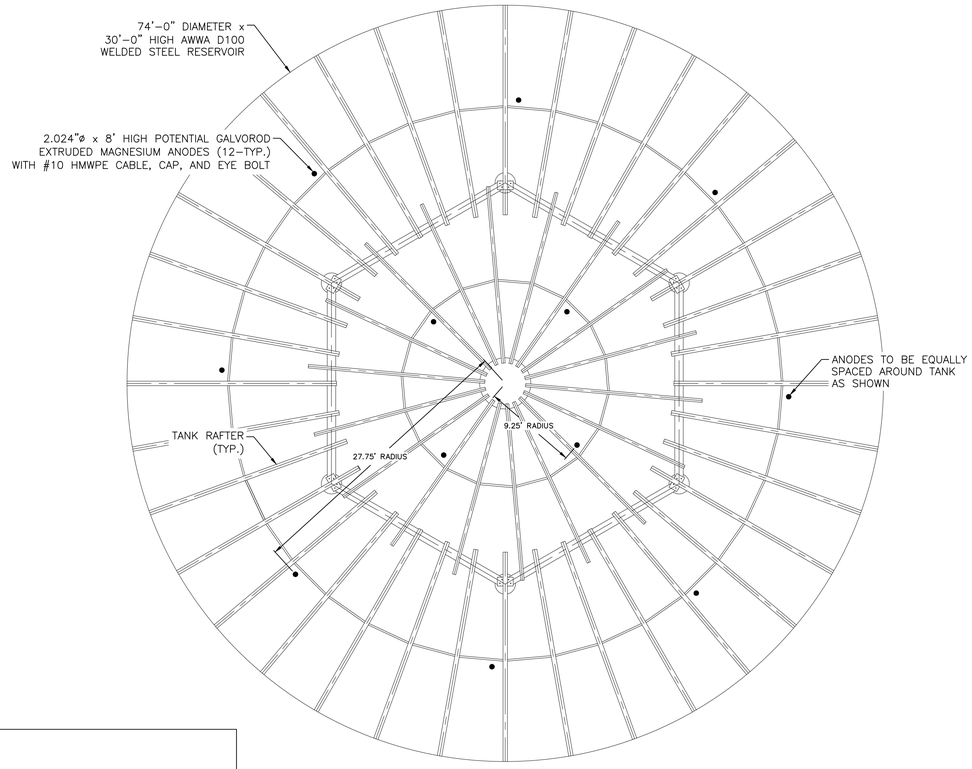
BV TANK STRUCTURAL DESIGN

74'ø x 30' HIGH WELDED STEEL RESERVOIR

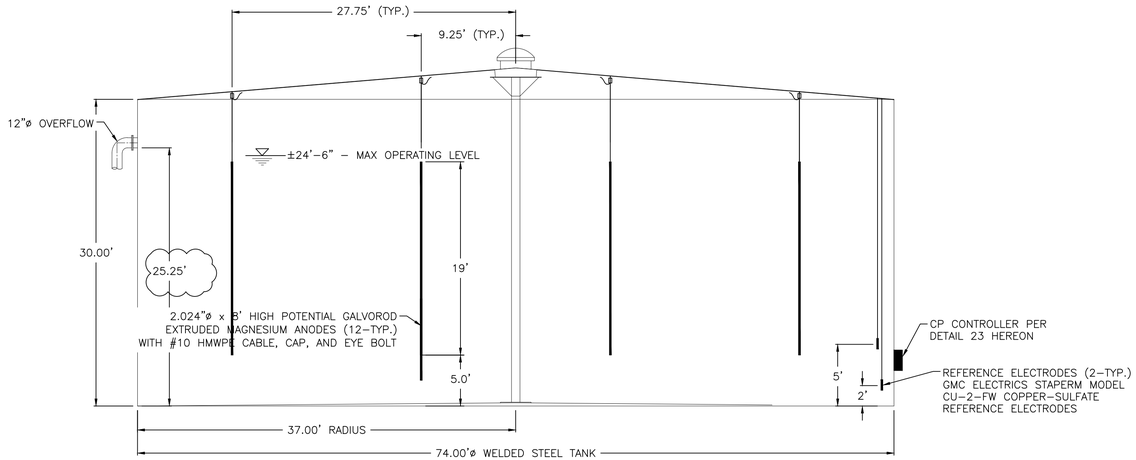
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	1/25/2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	115
OF	97 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\115. BV TANK STRUCTURAL DESIGN.DWG 8/23/2017 9:08 AM



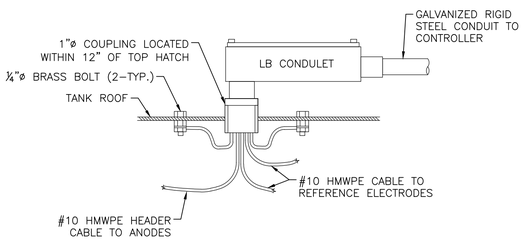
ANODE LAYOUT
PLAN VIEW



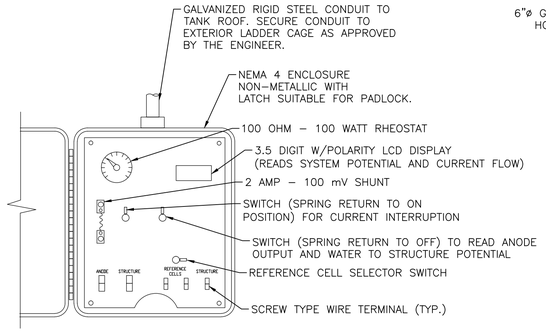
ANODE LAYOUT
ELEVATION VIEW

NOTES:

1. CATHODIC PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED BY A COMPANY SPECIALIZING IN CATHODIC PROTECTION.
2. THE NUMBER OF ANODES SHALL BE BASED ON THE DESIGN SUBMITTED BY THE CONTRACTOR. ANODE LAYOUT SHALL BE EQUALLY SPACED THROUGHOUT THE TANK INTERIOR AND SHALL BE DESIGNED TO AVOID TANK RAFTERS.

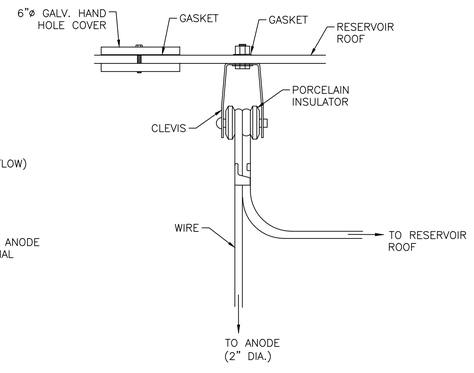


22 CONDUIT ENTRANCE
NOT TO SCALE

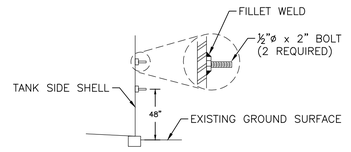


CONTROLLER SHALL BE A POWERMAG 1000
AUTO–POTENTIAL MAGNESIUM ANODE CONTROLLER
MANUFACTURED BY FARWEST CORROSION
CONTROL COMPANY OR APPROVED EQUAL.

23 CATHODIC PROTECTION CONTROLLER
NOT TO SCALE

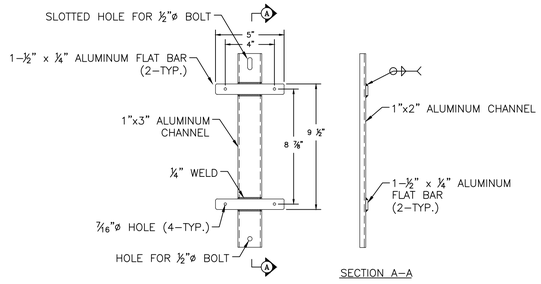


24 HAND HOLE & ANODE DETAIL
ELEVATION VIEW
NOT TO SCALE



CONTROLLER LOCATION

NOTE: LOCATE CONTROLLER NEXT TO TANK LADDER AS APPROVED BY THE ENGINEER



SECTION A–A

25 CONTROLLER MOUNTING BRACKET
NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
1			
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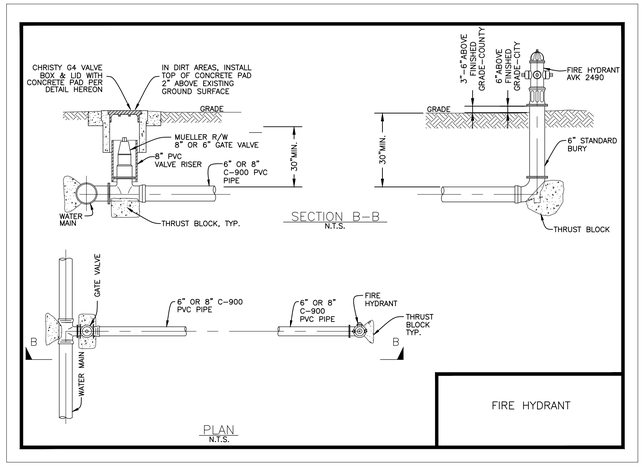
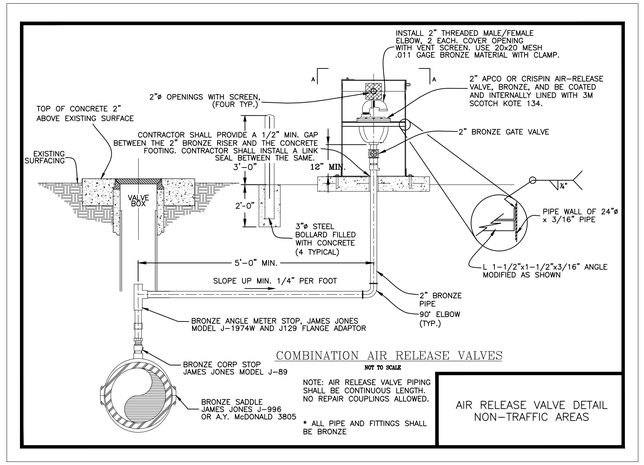
BV TANK CATHODIC PROTECTION SYSTEM

WELDON REGIONAL WATER SYSTEM PROJECT

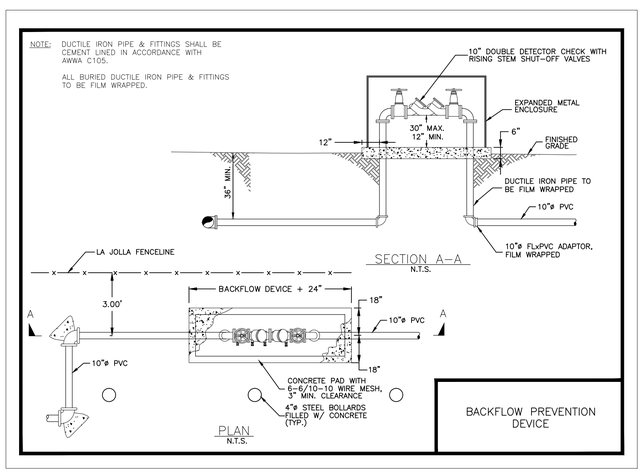
KERN COUNTY WATER AGENCY
KERN COUNTY, CALIFORNIA

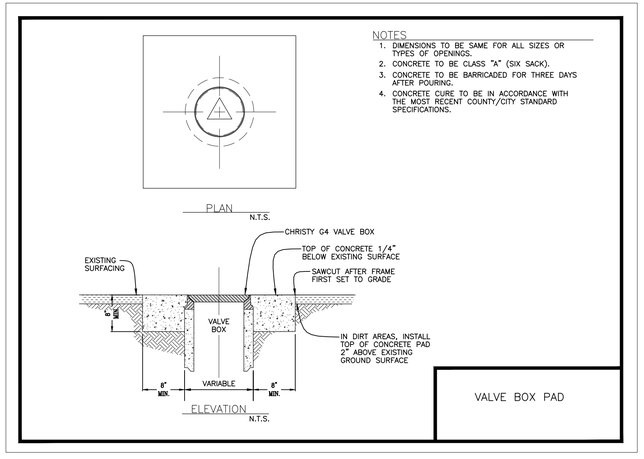
DRAWN	KRW
CHECKED	CMS
DATE	3/14/207
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	116
OF	97 SHEETS

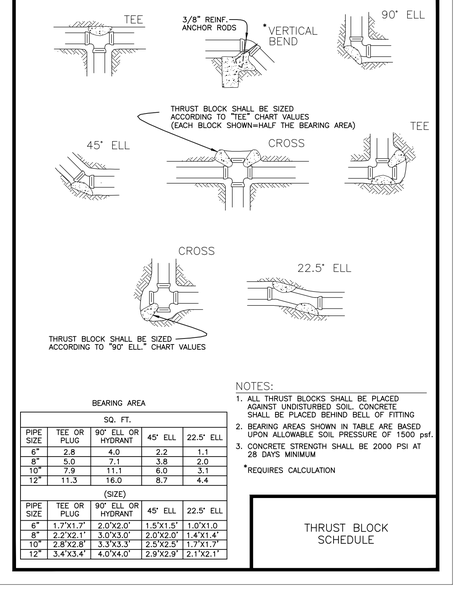


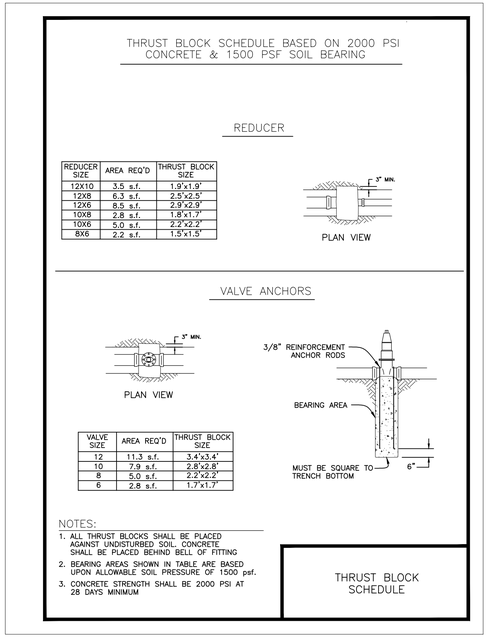


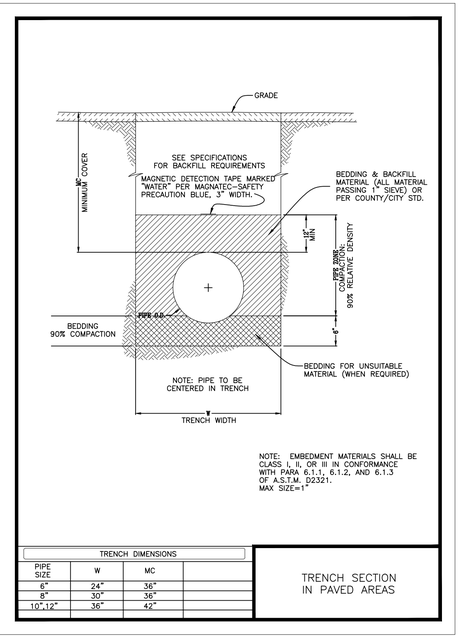
File: .\W9 SHT 9 REFERENCE.pdf
Missing or invalid reference











REVISION	BY

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MISCELLANEOUS DETAILS

WELDON REGIONAL WATER SYSTEM

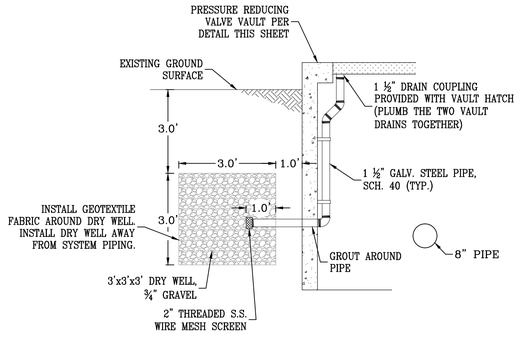
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JAN2017
SCALE NONE
FILE
JOB NO.
SHEET 117
OF 96 SHEETS

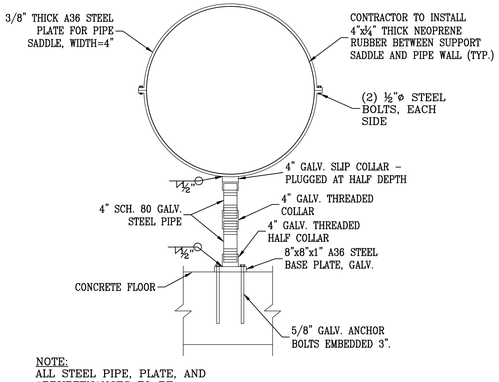
LIST OF MATERIALS		
No.	QTY.	DESCRIPTION
1	1	8"ø CLA-VAL MODEL 90-01 PRESSURE REDUCING VALVE (FLANGED)
2	1	2"ø CLA-VAL MODEL 90-01 PRESSURE REDUCING VALVE (THREADED)
3	2	8"ø GATE VALVE W/12" HAND WHEEL, FLANGED W/NON-RISING STEM
4	2	¾" 3,000 LB HALF HALF COLLAR W/ PRESSURE GAUGE 0-100 PSIG
5	2	8"ø DUCTILE IRON TEE
6	2	8" BLIND FLANGE, TAPPED FOR 2" GALV. STEEL PIPE
7	2	2"-90° ELBOW (THREADED)
8	2	2" BRONZE GATE VALVE (THREADED)
9	2	2" GALV. STEEL UNION
10	1	STEEL PIPE SUPPORT, SEE DETAIL HEREON
11	1	12'x8' PRE-CAST CONCRETE VAULT
12	–	2"ø GALV. STEEL PIPE THREADED
13	–	8"ø DUCTILE IRON PIPE – CLASS 350

PRESSURE REDUCING VALVE OPERATING SETTINGS		
	PRESSURE MEASURED DOWNSTREAM OF PRV	
VALVE DESCRIPTION	UPSTREAM PRESSURE	DOWNSTREAM PRESSURE
2"ø PRESSURE REDUCING VALVE	65 PSIG	40 PSIG

PRESSURE SETTINGS:
1. DOWNSTREAM PRESSURE IS THE SET PRESSURE FOR 2" PRV.
2. SET PRESSURE FOR 8" PRV SHALL BE 5 PSI BELOW SET PRESSURE FOR 2" PRV.
3. SET PRESSURE FOR SUSTAINING FEATURE SHALL BE 15 PSI BELOW UPSTREAM PRESSURE.
4. CONTROL VALVE SET POINTS SHALL BE FACTORY CALIBRATED BY VALVE MANUFACTURER. EACH VALVE SHALL BE STENCIL MARKED BY VALVE MANUFACTURER BEFORE DELIVERY PER THE DESIGNATION IN THE ABOVE TABLE. VALVES TO BE SLOW OPENING AND SLOW CLOSING.
5. CONTRACTOR SHALL INSULATE ALL FITTINGS, VALVES, AND PIPING WITHIN THE VALVE VAULT TO PREVENT FREEZING.



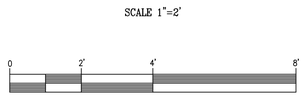
DRY WELL DETAIL
NTS

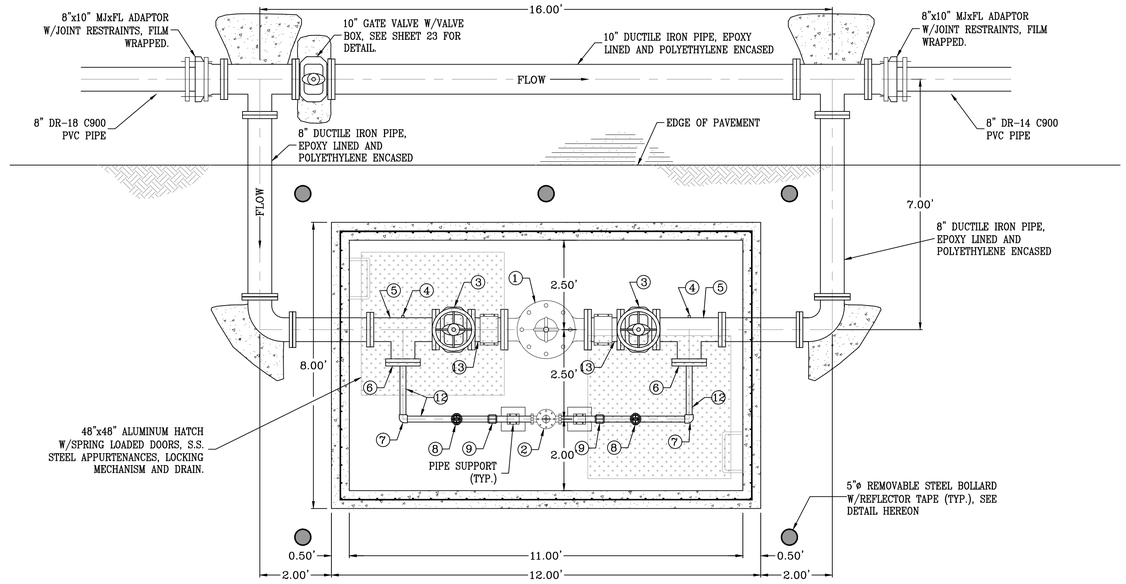


NOTE:
ALL STEEL PIPE, PLATE, AND APPURTENANCES TO BE PAINTED PER CONTRACT REQUIREMENTS.

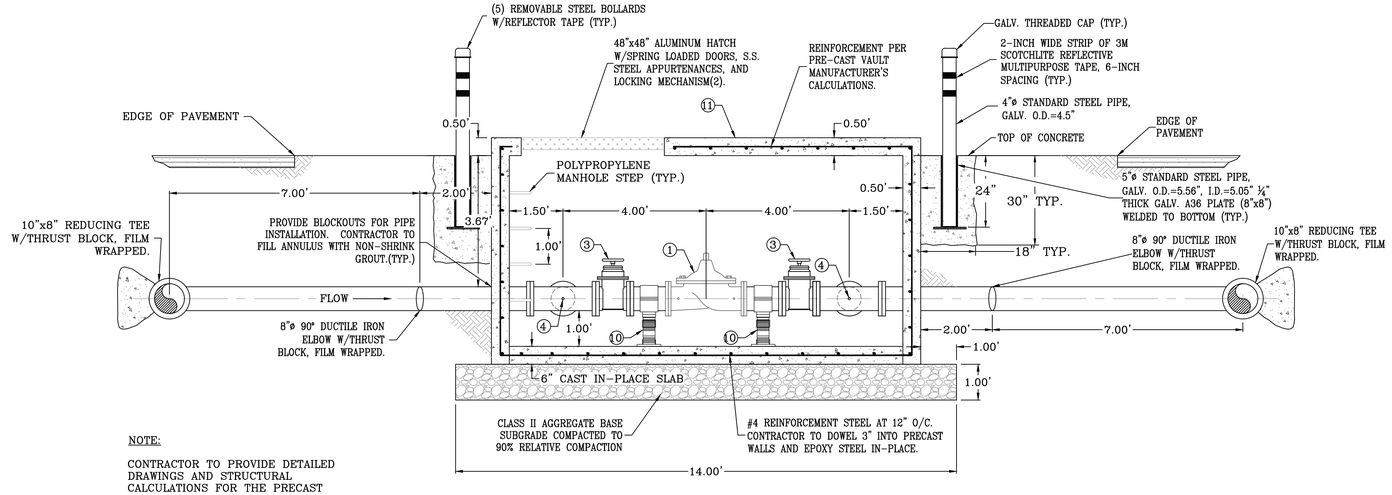
PIPE SUPPORT DETAIL
NTS

SCALE 1"=2'





PLAN VIEW
SCALE: 1"=2'



NOTE:

CONTRACTOR TO PROVIDE DETAILED DRAWINGS AND STRUCTURAL CALCULATIONS FOR THE PRECAST CONCRETE VAULT TO THE ENGINEER FOR APPROVAL.

ELEVATION VIEW
SCALE: 1"=10'

REVISION	BY

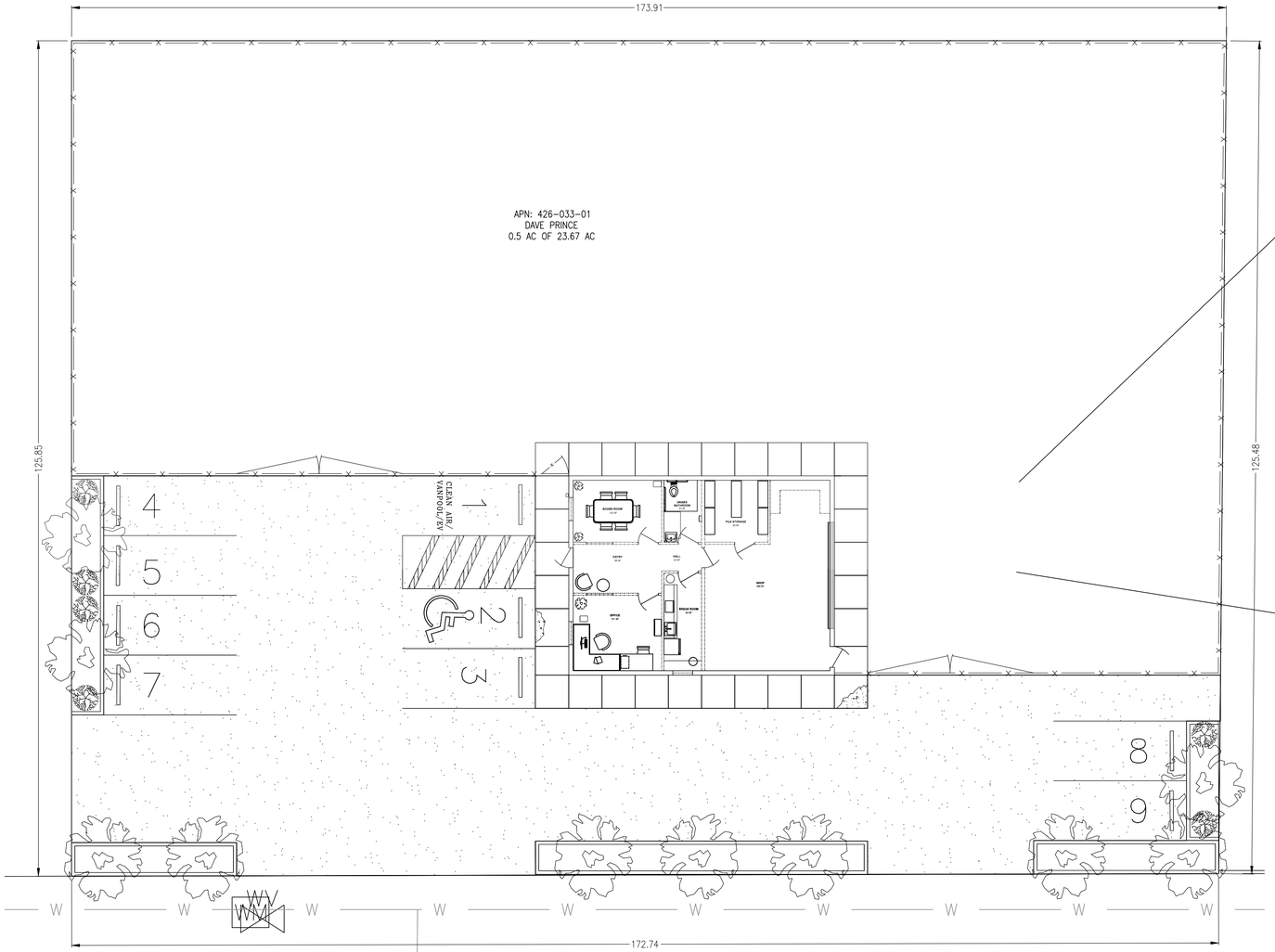
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
681 WEST MORTON AVENUE PHONE 559 35-2202
PORTERVILLE, CALIFORNIA 93257 PHONE 559 784-1490
3701 PEGASUS DRIVE, SUITE 121 PHONE 661 393-4799
BAKERSFIELD, CALIFORNIA 93308 FAX 661 393-4799

PRESSURE REDUCING STATION

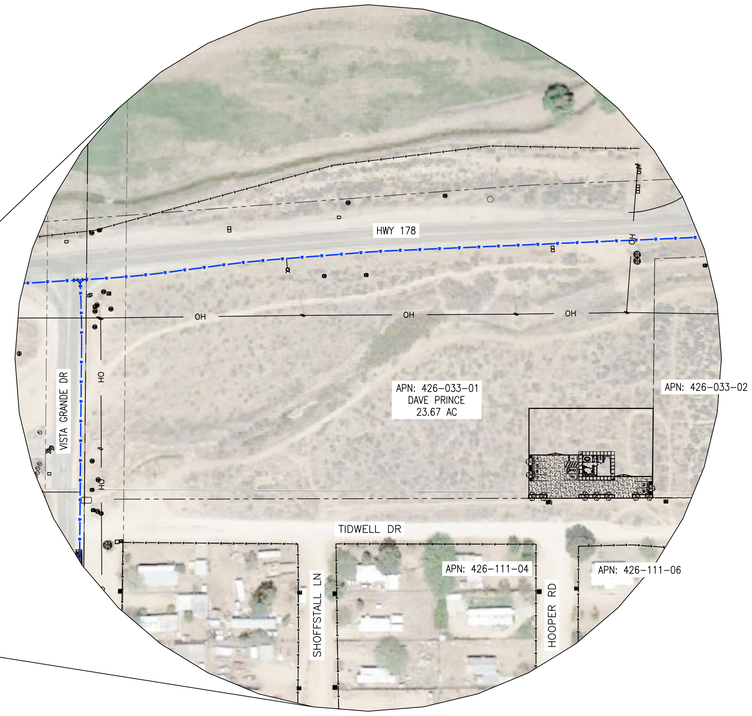
WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	KRW
CHECKED	CMS
DATE	APRIL 2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	118
OF	107 SHEETS



OFFICE BUILDING SITE PLAN
SCALE: 1"=10'



OVERALL OFFICE BUILDING SITE PLAN
SCALE: 1"=100'

LEGEND:

- NEW 8" PVC WATER MAIN
- EXISTING WATER MAIN
- EXISTING OVERHEAD POWER LINES
- EXISTING UTILITY LINES
- PUBLIC RIGHT OF WAY
- COUNTY RIGHT OF WAY
- SECTION LINE
- EXISTING PROPERTY LINES
- EXISTING FENCE
- EXISTING SIGN
- EXISTING MAIL BOX
- EXISTING CABLE MARKER
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING BRUSH
- EXISTING BOULDER
- EXISTING BOLLARD/POST
- CONCRETE THRUST BLOCK
- PROPOSED METERED SERVICE
- PROPOSED GATE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED ARV ASSEMBLY
- PROPOSED BLOW-OFF ASSEMBLY

SCALE 1"=10'

0 10' 20' 40'

811 Know what's below. Call before you dig.

DRAWING NOT TO SCALE IF PRINTED REDUCED SIZE

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1-800-642-2444
TWO WORKING DAYS
BEFORE YOU DIG

REV.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2700 UNICORN ROAD BLDG A
BAKERSFIELD, CA 93308
PHONE 661 393-4796
FAX 661 393-1909
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257
PHONE 559 791-9288
FAX 559 783-1975

OFFICE BUILDING SITE PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN JLT
CHECKED CMS
DATE JUNE 2016
SCALE AS SHOWN
FILE
JOB NO.
SHEET 119
OF 86 SHEETS

S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\119.OFFICE BUILDING SITE.DWG 9/8/2017 12:14 PM

60'-0"

EXTERIOR WATERPROOF OUTLET, SEE ELECTRICAL PLAN SHT

6" THICK CONCRETE SIDEWALK W/ CONTROL JOINTS @ 5' O/C

BOARD ROOM
124 SF

UNISEX BATHROOM
81 SF

FILE STORAGE
89 SF

SHELVING

ENTRY
98 SF

3'-0" WIDE x 7'-0" HIGH METAL ACCESS DOOR

HALL
24 SF

3'-0" WIDE x 7'-0" HIGH METAL ACCESS DOOR

16'x14' INSULATED GARAGE DOOR

REFR

SHOP
646 SF

BREAK ROOM
127 SF

OFFICE
151 SF

MW

8x8x16 STD. WT. TAN MASONRY BLOCK W/ SPLIT FACE EXTERIOR, SEE STRUCTURAL PLAN FOR DETAILS

3'-0" WIDE x 7'-0" HIGH METAL ACCESS DOOR

40'-0"

8" 13'-4" 4" 8'-8" 6" 9'-6" 4" 16'-0" 8"

8" 4'-4" 10' 5'-0" 4" 2'-0" 7'-4" 5'-4" 4" 5'-8" 11'-4" 5'-8" 8" 14'-4" 30'-0" 12'-4" 19'-0" 26'-6" 2'-0" 8"

8"-0" 13'-4" 4" 4'-4" 30'-8" 8" 50'-0"

NOTE:
CONTRACTOR SHALL OVEREXCAVATE AND RECOMPACT SUBGRADE TO 92% RELATIVE COMPACTION FOR A DEPTH OF 18", FIVE FEET BEYOND ALL CONCRETE.

CONTRACTOR SHALL DRYWALL CEILING OF BUILDING W/ 5/8" TYPE X DRYWALL AND A MINIMUM R38 INSULATION ABOVE. CONTRACTOR TO TAPE AND PLASTER CEILING FOR FINISHED APPEARANCE.

BUILDING PLAN LAYOUT
PLAN VIEW
SCALE: 1/2"=1'

0 2' 4' 8'

REV.	DATE	DESCRIPTION	BY
1			
2			
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7			

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2730 UNICORN ROAD, BLDG A
BAKERSFIELD, CALIFORNIA 93308
PHONE 661 393-4799
FAX 661 393-4888
P.O. BOX 1460
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9275
FAX 559 781-9275

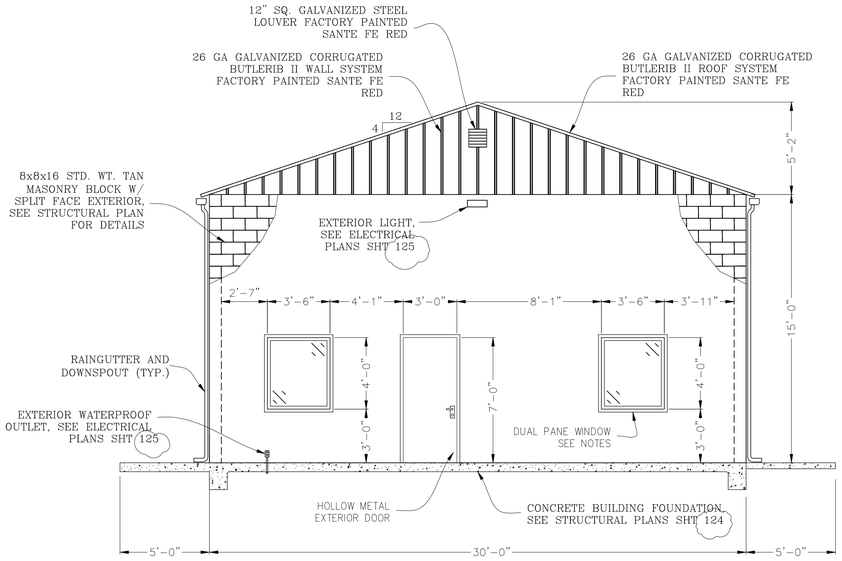
OFFICE BUILDING - PLAN

WELDON REGIONAL WATER SYSTEM

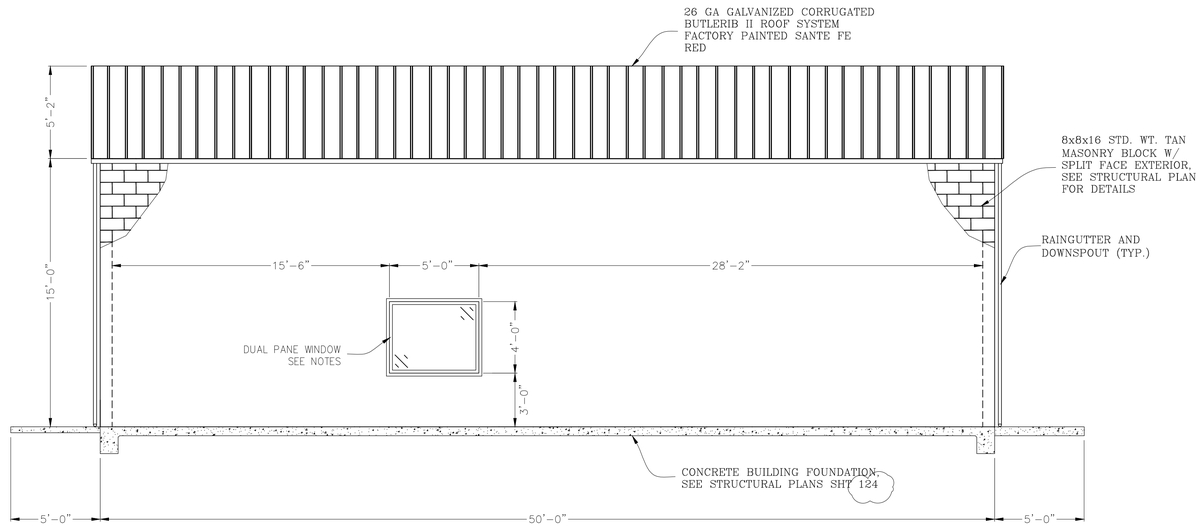
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	AUGUST 2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	121
OF	200 SHEETS

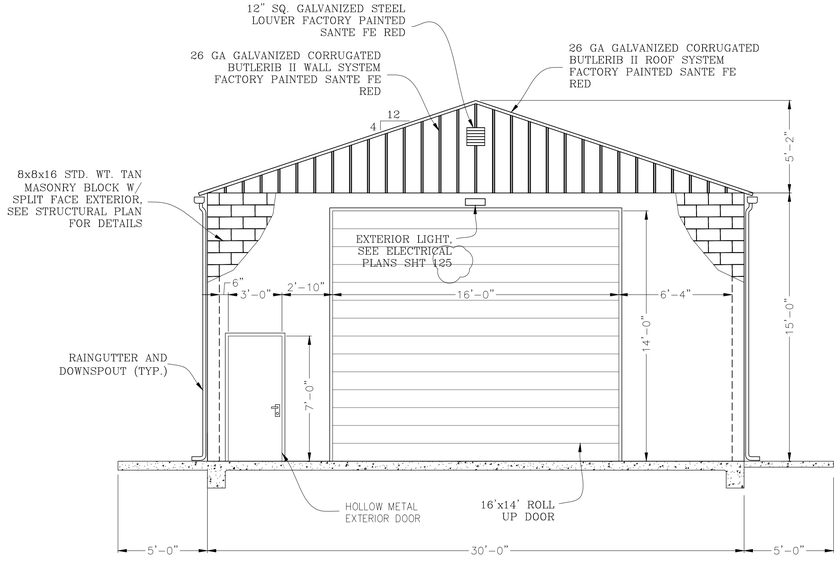
S:\WELDON REGIONAL WATER PROJECT\DRAWINGS\REGIONAL SYSTEM DESIGN\121. BUILDING FLOOR PLAN.DWG 8/23/2017 9:06 AM



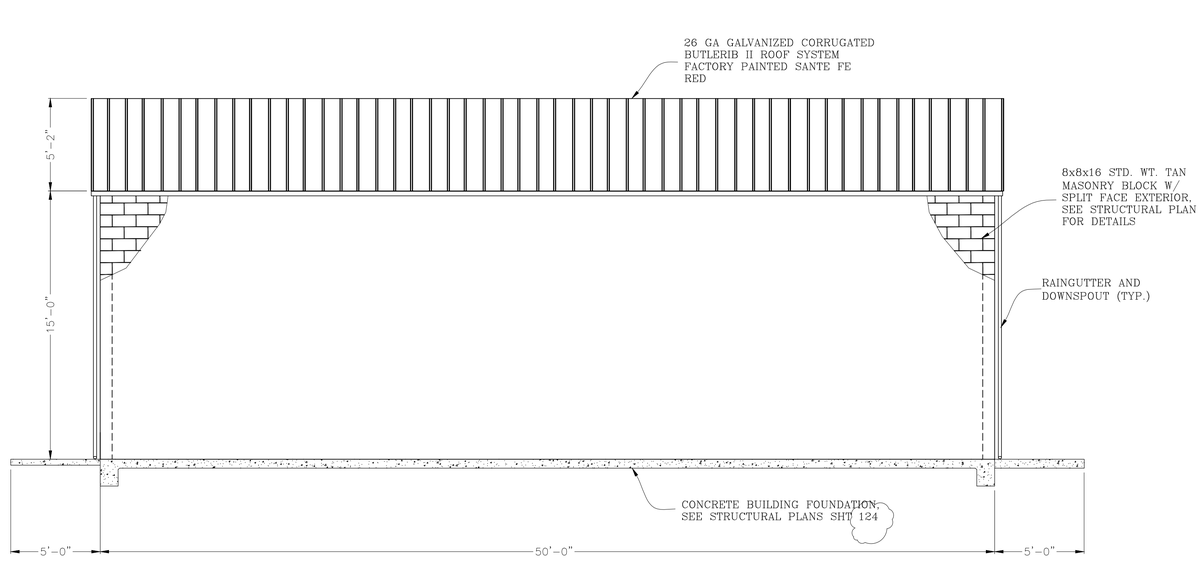
WEST WALL
ELEVATION VIEW
SCALE: 1"=4'



SOUTH WALL
ELEVATION VIEW
SCALE: 1"=4'



EAST WALL
ELEVATION VIEW
SCALE: 1"=4'



NORTH WALL
ELEVATION VIEW
SCALE: 1"=4'

NOTE:
CONTRACTOR SHALL OVEREXCAVATE AND RECOMPACT SUBGRADE TO 92% RELATIVE COMPACTION FOR A DEPTH OF 18", FIVE FEET BEYOND ALL CONCRETE.

1 1/2" HIGH HOUSEKEEPING PADS.

CONTRACTOR SHALL DRYWALL CEILING OF BUILDING W/ 5/8" TYPE X DRYWALL AND A MINIMUM R38 INSULATION ABOVE. CONTRACTOR TO TAPE AND PLASTER CEILING FOR FINISHED APPEARANCE.

ALL EXTERIOR STOREFRONT AND WINDOW GLAZING SHALL BE PPG DUAL PANE W/ LOW-E SOLARBAN 80. (U.O.N)---VERIFY W/ OWNER

REV.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			

DEE JASPAR & ASSOCIATES INC.
CIVIL ENGINEERS
2250 LINCOLN ROAD, BLDG A
BAKERSFIELD, CALIFORNIA 93308
PHONE 661 393-4799
FAX 661 393-4888
1615 N. GATEWAY BLVD.
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9275
FAX 559 781-9275

OFFICE BUILDING- ELEVATIONS

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	AUGUST 2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	122
OF	200 SHEETS

811 Know what's below. Call before you dig.

DIGALERT DIAL TOLL FREE 1-800-227-2600 AT LEAST TWO DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT OF CALIFORNIA

ELECTRICAL CONSTRUCTION MATERIAL NOTES

ABOVE GRADE - HOT DIPPED GALVANIZED RIGID STEEL CONDUIT TO BE USED FOR ALL EXTERIOR AND INTERIOR LOCATIONS ABOVE GRADE OR ELSEWHERE SHOWN ON PLANS. ALL RIGID CONDUIT AND FITTINGS TO BE THREADED. USE OF SET SCREW OR COMPRESSION TYPE CONNECTOR IS PROHIBITED. MEYERS HUBS TO BE USED ON ALL EXTERIOR PANEL CONNECTIONS.

BELOW GRADE - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 40 TO BE USED FOR ALL UNDERGROUND LOCATIONS AND BELOW VAPOR BARRIER OF SLAB. NO CONDUITS SHALL BE INSTALLED TO REDUCE THE STRUCTURAL INTEGRITY OF FOOTINGS.

CHEMICAL BUILDINGS AND CORROSIVE ATMOSPHERES - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 80 TO BE USED FOR ALL INTERIOR LOCATIONS ABOVE GRADE IN CHEMICAL BUILDINGS AND CORROSIVE ENVIRONMENTS.

THROUGH CONCRETE SLABS AND EXTERIOR CORROSIVE ATMOSPHERES - PVC COATED GALVANIZED RIGID STEEL CONDUIT MINIMUM 40 MIL FACTORY COATING TO BE USED FOR ALL EXPOSED CONDUITS THROUGH CONCRETE SLABS (MINIMUM 12'' ABOVE AND BELOW SLAB) AND ALL EXTERIOR LOCATION CORROSIVE ATMOSPHERES. USE MANUFACTURERS' SPECIFIED TOOLS AND PROCEDURES FOR INSTALLATION.

MOTORS AND SENSOR CONNECTIONS - LIQUID TIGHT FLEXIBLE METAL CONDUIT (UV RESISTANT) TO ONLY BE USED ON CONNECTIONS TO MOTORS AND SENSORS OR TO ISOLATE VIBRATION. MAXIMUM LENGTH TO BE 30''.

JUNCTION BOXES - MINIMUM SIZE PER NEC. EXPOSED LOCATION, 1 AND 2 GANG TO BE CAST IRON DEVICE BOXES TYPE FS/FD SUITABLE FOR WET LOCATIONS. EXPOSED LOCATION EXTERIOR LARGER SIZES CONTINUOUS HINGE TYPE 4, CORROSIVE LOCATIONS CONTINUOUS HINGE TYPE 4X STAINLESS STEEL.

GROUND CONNECTIONS - GROUND CONNECTIONS TO BE EXOTHERMIC CADWELD (ALL 600 AMP OR LARGER SERVICE) OR BURNDY HYDRAULIC COMPRESSION CONNECTORS. GROUND BUS CONNECTIONS TO BE CRIMP LUG TYPE WITH BOLTED CONNECTION TO GROUND BUS.

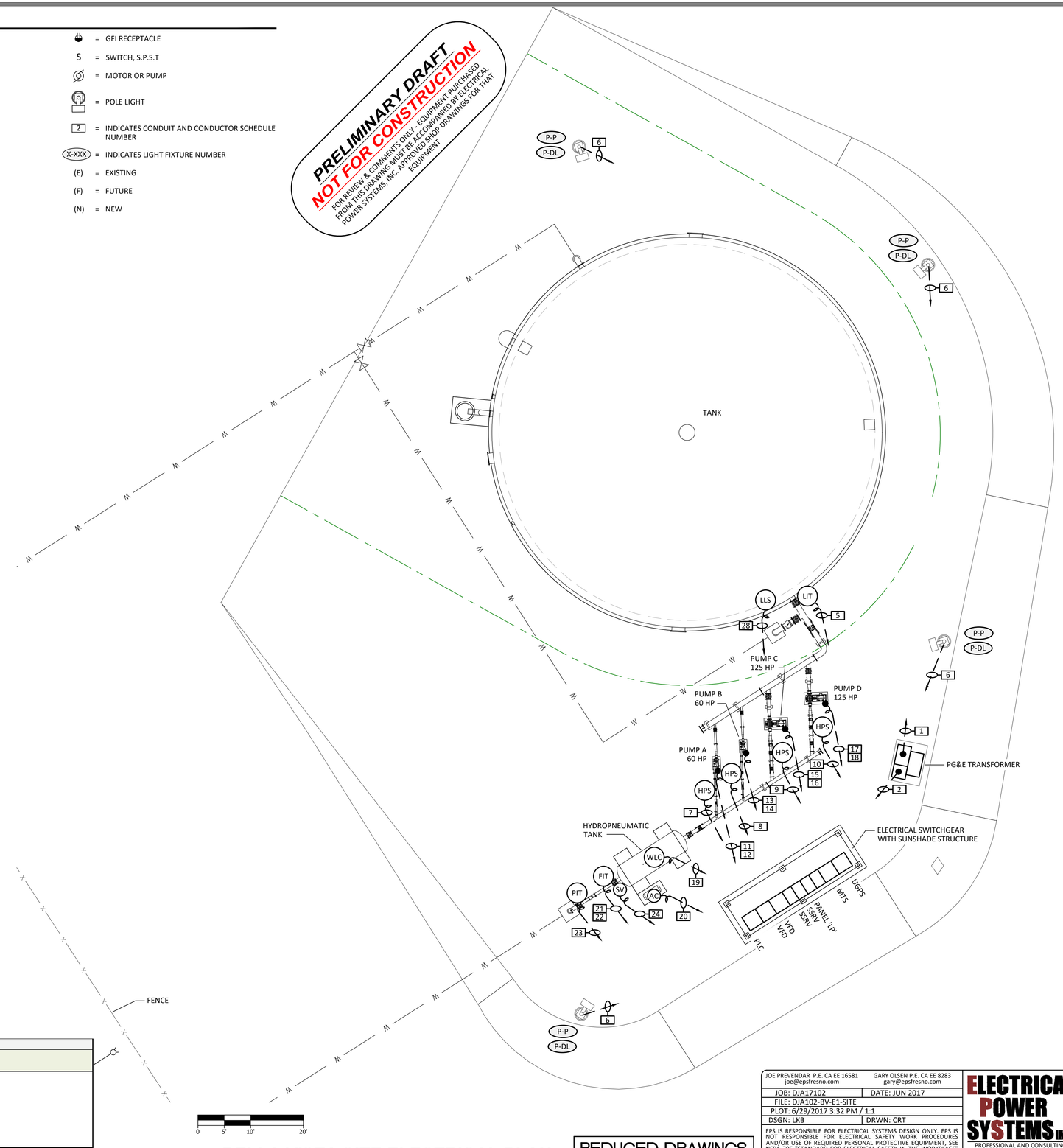
480 VOLT AND BELOW POWER WIRING TO BE THWN-2 600 VOLT, ALL POWER CONNECTIONS TO BE TREATED WITH ANTIOXIDANT COMPOUND. ALL VFD MOTOR CABLE TO BE SHIELDED, INVERTER DUTY.

CONTACT EPS TO SCHEDULE AN ELECTRICAL PRECONSTRUCTION MEETING PRIOR TO COMMENCING CONSTRUCTION

SYMBOL LEGEND:

- = CONDUIT, UNDERGROUND
- = CONDUIT, ABOVE GROUND
- (AC) = AIR COMPRESSOR
- (LS) = LEVEL SWITCH
- (SV) = SOLENOID VALVE
- (FCV) = FLOW CONTROL VALVE
- (FIT) = FLOW INDICATING TRANSMITTER
- (HPS) = HIGH PRESSURE SWITCH
- (LLS) = LOW LEVEL SWITCH
- (LIT) = LEVEL INDICATING TRANSMITTER
- (PIT) = PRESSURE INDICATING TRANSMITTER
- (WLC) = WARRICK LEVEL CONTROL
- = GFI RECEPTACLE
- S = SWITCH, S.P.S.T
- = MOTOR OR PUMP
- = POLE LIGHT
- [2] = INDICATES CONDUIT AND CONDUCTOR SCHEDULE NUMBER
- (X-XXX) = INDICATES LIGHT FIXTURE NUMBER
- (E) = EXISTING
- (F) = FUTURE
- (N) = NEW

PRELIMINARY DRAFT NOT FOR CONSTRUCTION
FOR REVIEW & COMMENTS ONLY - EQUIPMENT PURCHASED FROM THIS DRAWING MUST BE ACCOMPANIED BY ELECTRICAL POWER SYSTEMS, INC. APPROVED SHOP DRAWINGS FOR THAT EQUIPMENT



BELLA VISTA CABLE AND CONDUIT SCHEDULE

NO.	QTY	SIZE	NO. WIRES	WIRE SIZE	GND	FUNCTION	FROM	TO
1	Per	PGE	Per PGE	Per PGE		**PGE PRI**	PGE Pole	PGE Transformer
2	2	5"	Per PGE	Per PGE		PGE SEC	PGE Transformer	MCC
3	1	3/4"	2	#12	#12	Fisher Control Valve Power	PLC	Fisher Control Valve, FCV
4	1	3/4"	2	#18 TSP		Fisher Control Valve, FCV Signal	PLC	Fisher Control Valve, FCV
5	1	3/4"	1	#18 TSP		Tank Level Transmitter, LIT Signal	MCC	Tank Level Transmitter, LIT
6	1	3/4"	2	#12	#12	Site Lights	LP	Site Lights
7	1	3/4"	2	#12	#12	60 HP VFD, High Pressure Switch	MCC	60 HP VFD, High Pressure Switch
8	1	3/4"	3	#12	#12	60 HP VFD, High Pressure Switch	MCC	60 HP VFD, High Pressure Switch
9	1	3/4"	2	#12	#12	125 HP SSRV, High Pressure Switch	MCC	125 HP SSRV, High Pressure Switch
10	2	3/4"	3	#12	#12	125 HP SSRV, High Pressure Switch	MCC	125 HP SSRV, High Pressure Switch
11	1	1 1/4"	3	#4	#8	60 HP VFD, Power	MCC	60 HP VFD, Power
12	1	3/4"	4	#12	#12	60 HP VFD, Winding Heater, OTS	LP	60 HP VFD, Winding Heater, OTS
13	1	1 1/4"	3	#4	#8	60 HP VFD, Power	MCC	60 HP VFD, Power
14	1	3/4"	4	#12	#12	60 HP VFD, Winding Heater, OTS	LP	60 HP VFD, Winding Heater, OTS
15	1	2"	3	#2	#6	125 HP SSRV, Power	MCC	125 HP SSRV, Power
16	1	3/4"	4	#12	#12	125 HP SSRV, Winding Heater, OTS	LP	125 HP SSRV, Winding Heater, OTS
17	1	2"	3	#2	#6	125 HP SSRV, Power	MCC	125 HP SSRV, Power
18	1	3/4"	4	#12	#12	125 HP SSRV, Winding Heater, OTS	LP	125 HP SSRV, Winding Heater, OTS
19	1	3/4"	6	#12	#12	Warrick Hydro Level Switch	Warrick Controller	Hydro Tank
20	1	3/4"	6	#12	#12	Hydro Air Compressor & Control	MCC	Hydro Compressor
21	1	3/4"	1	#12	#12	Flow Transmitter, FIT Power	LP	Flow Transmitter, FIT
22	1	3/4"	1	#18 TSP		Flow Transmitter, FIT Signal	PLC	Flow Transmitter, FIT
23	1	3/4"	1	#18 TSP		Pressure Transmitter, PIT Signal	PLC	Pressure Transmitter, PIT
24	1	3/4"	2	#12	#12	Hydro Solenoid	Warrick Controller	Hydro Solenoid
25	1	3/4"	2	#12	#12	GFI Outlets	LP	GFI Outlets
26	1	2"	1	Telco		PGE Telco Meter	Telco	Meter/Main
27	1	3/4"	2	#12	#12	High Level Switch	PLC	High Level Switch
28	1	3/4"	2	#12	#12	Low Level Switch	PLC	Low Level Switch
29	1	3/4"	2	#12	#12	Hypo Metering Pump Power	LP/PLC	Hypo Metering Pump Power
30	1	3/4"	2	#18 TSP		Hypo Metering Pump Rate	PLC	Hypo Metering Pump Rate
31	1	3/4"	1	Pullcord		Future Tank Signal	PLC	Stubout 10' and cap
32	1	2"	1	Pullcord		Future	MCC	Stubout 10' and cap
33	1	3/4"	2	#12	#12	Chart Recorder Power	LP	Chart Recorder
34	1	3/4"	2	#18 TSP		Chart Recorder Signal	PLC	Chart Recorder
35	1	3/4"	1	Pullcord		Future Landscape Controller		
36	1	2"	1	Telco		Autodialer	Autodialer	120-ft. stub to Frontage and cap
37								
38								
39								
40								
41								

FIXTURE SCHEDULE:

I = INTERIOR FIXTURE E = EXTERIOR FIXTURE P = POLE MOUNTED FIXTURES/POLES

FIXTURE DESIGN	DESCRIPTION	LAMP # & TYPE	FIXTURE WATTS	FIXTURE MOUNTING	MANUFACTURER
J	2'x3" LENSED STRIP	LED			METALUX SNLED LD (WATTS) LC UNV L850 CD1
I-LO	8'X3"LENSED STRIP	LED	50.1	SURF	METALUX 8TSNLED LD4 90SL LC UNV L850 LB-ERMS360 CD2
I-SP	SWITCHPAK			ON JBOX	EATON SP20-MBV
E-A	LED WALL PACK	LED	58	WALL	LUMARK XTOR6B W (APC/MOTION SENSOR OPTION)
E-X1	EMERGENCY HEAD	LED	2	UNV	BARRON MLED1 (1 LAMP) OR MLED2 (2 LAMP)
P-DL	FLOOD LIGHT	LED	256	POLE	LUMARK NFFLD-L B100 D UNV 66 S CB OA/RA1016 VSHW/NFFLD
P-P	POLE FOR AREA ROADWAY LUMINAIRE	N/A	N/A	BASE	LUMARK SSS 4 M 15 S F (FOR P-DL SLIPFITTER)

BELLA VISTA SITE ELECTRICAL PLAN

SCALE: 1" - 10'-0"

REDUCED DRAWINGS ARE NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
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7			

DEE JASPAR & ASSOCIATES, INC.
CIVIL • ENGINEERS
8348 LINDEN ROAD, BLDG A PHONE 661 393-4796
BAKERSFIELD, CA 93309 FAX 661 393-4799
628 N. MAIN, STREET, #B PHONE 559 781-2286
PORTERVILLE, CALIFORNIA 93257 FAX 559 782-7615

BELLA VISTA TANK SITE ELECTRICAL PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	
CHECKED	
DATE	JULY 2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	E1
OF	SHEETS

JOE PREVENDAR P.E. CA EE 16581 joe@epsfresno.com
GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: DJA17102 DATE: JUN 2017
FILE: DJA102-BV-E1-SITE
PLOT: 6/29/2017 3:32 PM / 1:1
DSGN: LKB DRWN: CRT

EPS IS RESPONSIBLE FOR ELECTRICAL SYSTEMS DESIGN ONLY. EPS IS NOT RESPONSIBLE FOR ELECTRICAL SAFETY WORK PROCEDURES AND/OR USE OF REQUIRED PERSONAL PROTECTIVE EQUIPMENT, SEE NFPA 70E "STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE" AND OSHA 29 CFR. CONTRACTOR MUST READ SPECIFICATIONS AND INSTALL MATERIAL AS PER SPECIFICATIONS AND/OR PLANS OR AS PER E.P.S. APPROVAL. PLANS AND SPECIFICATIONS ONLY APPLY TO THE PROJECT FOR WHICH THEY WERE CREATED.

ELECTRICAL POWER SYSTEMS INC.
PROFESSIONAL AND CONSULTING ELECTRICAL ENGINEERING
4049 N FRESNO ST, FRESNO , CA 93726
P: (559) 221-7230 F: (559) 221-0507

T:\files\DJA\102 - Weldon Well 1 and 2\DWGS\1_Bella Vista dwgs\DJA102-BV-E1-Site.dwg, Bella Vista, 6/29/2017 3:32:44 PM, Commi, 1:1

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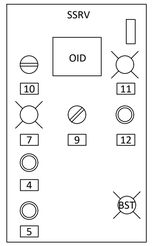
Know what's below. Call before you dig.

DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF CALIFORNIA



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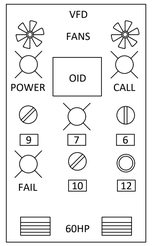
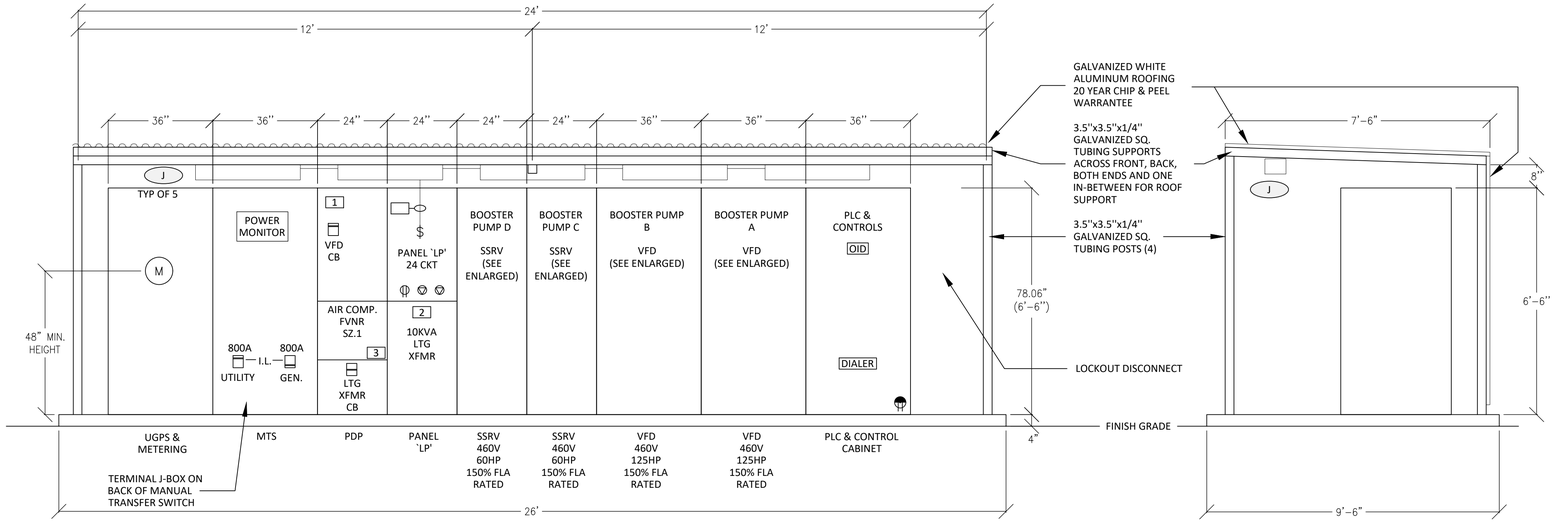


VFD ENLARGED



FRONT VIEW (SHOWN WITH DOORS OPEN)

SIDE VIEW

BELLA VISTA NAMEPLATE SCHEDULE

No.	Text	Color	Pilot Light
1	Well	White/Black Letters	Lockout Disconnect
	Pump		
	75 HP		
2	15 KVA	White/Black Letters	Lockout Disconnect
	Transformer		
3	Air	White/Black Letters	Lockout Disconnect
	Compressor		
4	Start	White/Black Letters	
5	Stop	White/Black Letters	
6	Speed	White/Black Letters	
7	Run	White/Black Letters	Green
8	Start	White/Black Letters	
9	Hand-Off-Auto	White/Black Letters	
10	ETM	White/Black Letters	
11	Fault	White/Black Letters	Red
12	Reset	White/Black Letters	
13	High Pressure	White/Black Letters	
14	OS	White/Black Letters	
15	CP	White/Black Letters	
16		White/Black Letters	
17			

BELLA VISTA MCC (NEMA 3R) AND SUNSCREEN ELEVATION

NOT TO SCALE

NOTES:

1) ALL DIMENSIONS NOMINAL
2) NEMA 3R, DUST TIGHT.
3) LED LIGHT IN EACH SECTION.
4) MAINTENANCE DUPLEX OUTLET.
5) SUN SHADE
6) AIR HEAT EXCHANGER ON VFD CABINET.
7) PAINT PER CITY SPECS.
8) TVSS 240KA/PH W/30/3 CB
9) HPS = 0-150PSI, MERCOID DAW SNAP ACTION OR EQUAL.

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PANEL SCHEDULE

PANEL LP
200 AMP 240/120V 1PH

CKT	DESCRIPTION / LOCATION	BRKR	PLS	Aph	Bph
1	PLC	20	1	6.00	
3	Motor Winding Heater	20	1		5.00
5	Chlorine Metering Pump	20	1	2.00	
7	Outside Floodlighting	20	1		10.00
9	Hydropneumatic Controller	20	1	2.00	
11	GFI Outlets	20	1		5.00
13	Well Enclosure Lights	20	1	1.00	
15	Well Enclosure Outlet	20	1		2.00
17	Well enclosure Fan	20	1	10.00	
19	Sunshade Light	20	1		1.00
21					
23					
25					
27					
29					
2	Space Heater	20	1	5.00	
4	Battery Charger	20	1		2.00
6	Irrigation Controller	20	1	1.00	
8	Spare	20	1		
10	Spare	20	1		
12	Spare	20	1		
14	Spare	20	1		
16	Spare	20	1		
18	Spare	20	1		
20					
22					
24					
26					
28					
30					
PANEL CONNECTED LOAD / PHASE				27.0	25.0
PANEL CONNECTED LOAD		52.0	AMP	6.2	KW

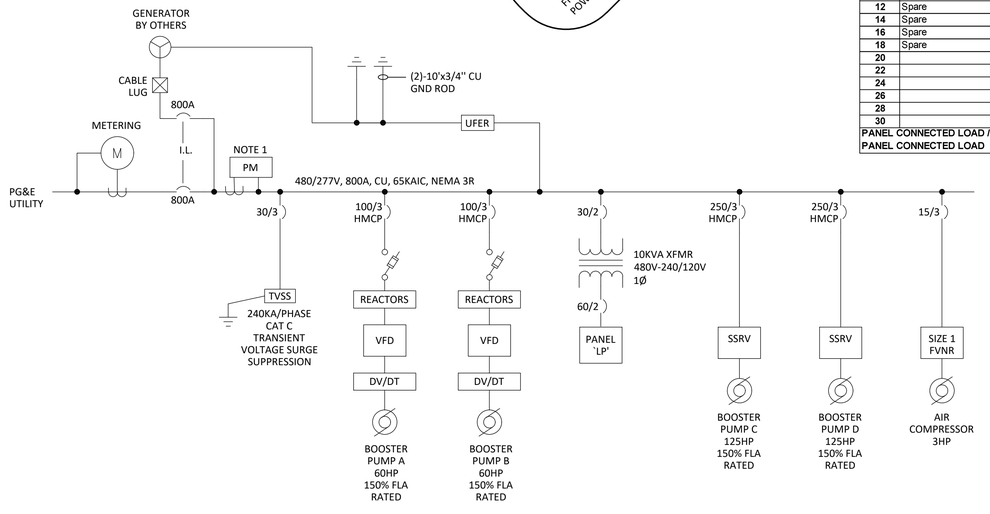
BELLA VISTA MOTOR & LOAD LIST

MCC Motor List

Item	Name	ID	Timing	Type	HP	FLA	Voltage	Starter typ	VFD	HOA	Hock	Power on	Running	Fail	ETM	Remarks
1	Booster Pump A		New	WP1	60	75	460	VFD	Y	Y	HP		Y	Y	Y	
2	Booster Pump B		New		60	75	460	VFD	Y	Y	HP		Y	Y		
3	Booster Pump C		New		125	156	460	SSRV					Y	Y	Y	
4	Booster Pump D		New		125	156	460	SSRV								
5	Chemical Pump		New		1	1	120		Y	Y			Y	Y	Y	
6	Fluoride Pump		New		1	1	120		Y	Y			Y	Y	Y	
7	Air Compressor		New		3	5	460		Y	Y			Y	Y	Y	
8																

Load Calculations 480V

Item	Name	FLA
1	Booster Pump A	75
2	Booster Pump B	75
3	Booster Pump C	156
4	Booster Pump D	156
5	Air Compressor	5
6	Lts. & misc.	7
7		
8		
9		
	Total	474
	80% rating	593
	Main Size	800



BELLA VISTA SINGLE LINE DIAGRAM

NOTES:

1) POWER MONITOR TO BE SCHNEIDER PM5500, EATON XPERT METER 2280, ELECTRO INDUSTRIES SHARK 200V4 OR EQUAL WITH ETHERNET.

REDUCED DRAWINGS ARE NOT TO SCALE

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GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: DJA17102 DATE: JUN 2017
FILE: DJA102-BV-E2-SL
PLOT: 6/29/2017 3:35 PM / 1:1
DSGN: LKB DRWN: CRT

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BELLA VISTA TANK SINGLE LINE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN
CHECKED
DATE JULY 2017
SCALE AS SHOWN
FILE
JOB NO.
SHEET E2
OF SHEETS

T:\files\DJA102 - Weldon Well 1 and 2\DWGS\1_Bella Vista.dwgs\DJA102-BV-E2-SL.dwg, Bella Vista, 6/29/2017 3:35:22 PM, Connie, 1:1

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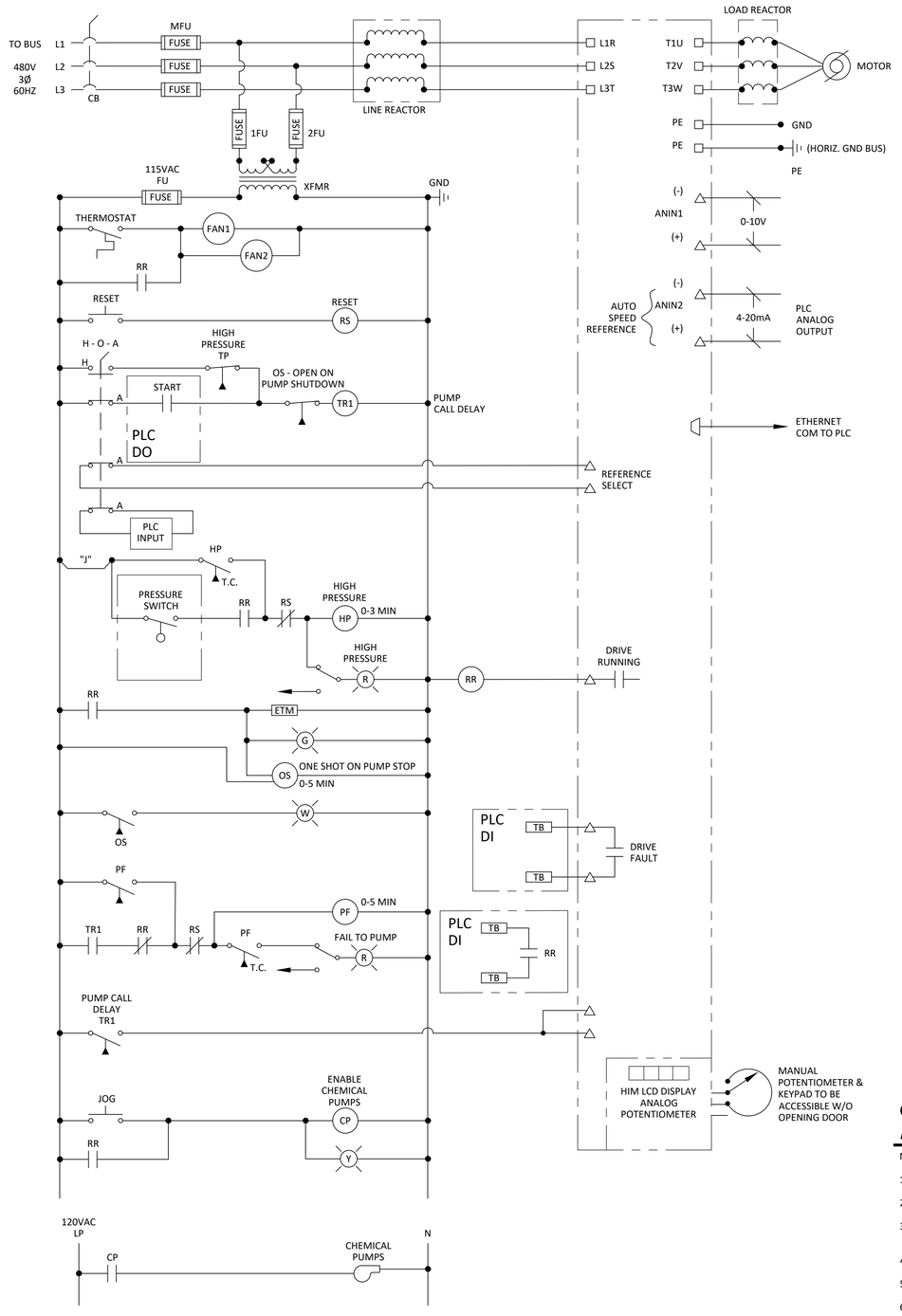
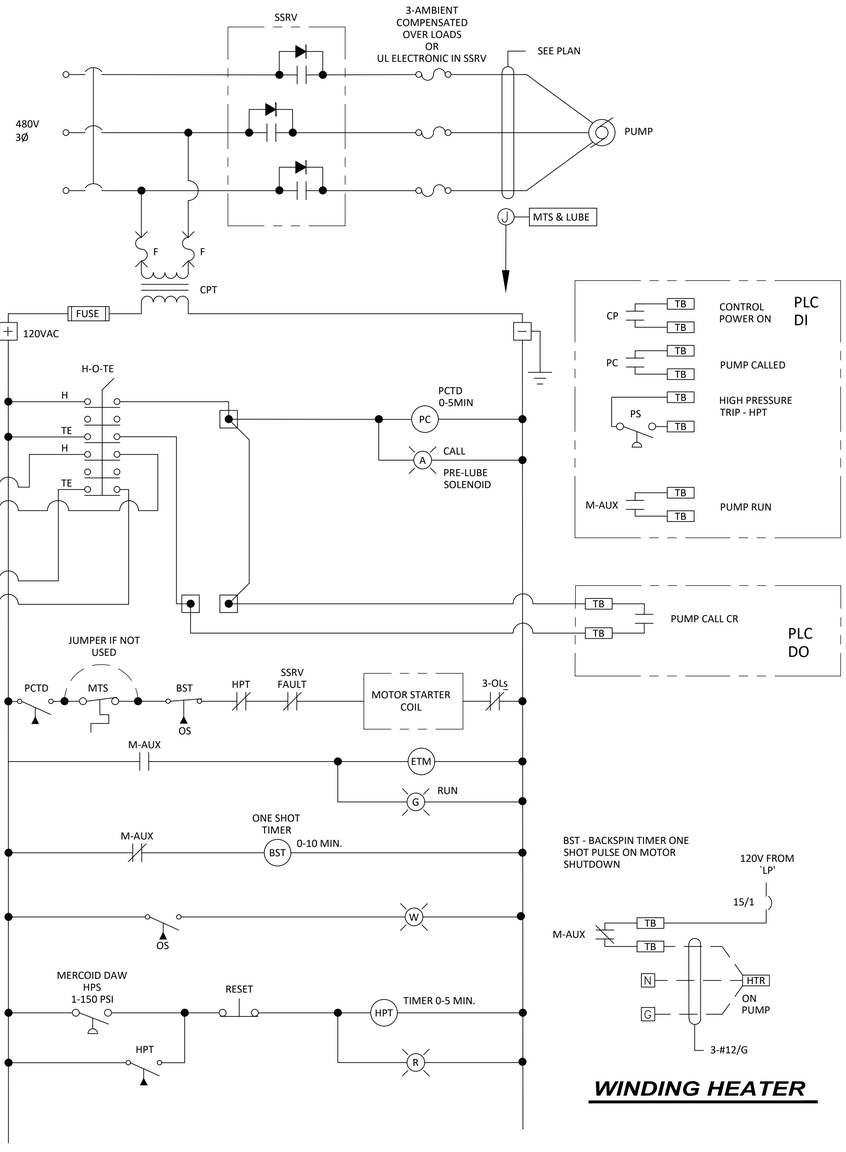


CONTROL DIAGRAM BOOSTER PUMP VFD

NOTES:

1) MANUFACTURER TO BE A-B, C-H, SQ. D, OR APPROVED EQUAL.
2) HEAVY DUTY RATED 150% FULL RATED CURRENT FOR 60 SECONDS
3) DRIVE RATED FOR 50°C AMBIENT MINIMUM, HEAT SINK MOUNTED THROUGH ENCLOSURE.
4) REDUNDANT COOLING FANS.
5) 5% LINE REACTORS
6) 3% LOAD REACTORS



SSRV CONTROL DIAGRAM

WINDING HEATER

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BELLA VISTA CONTROL DIAGRAM

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN
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DATE JULY 2017
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FILE
JOB NO.
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OF SHEETS

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FILE: DJA102-BV-E3-CD
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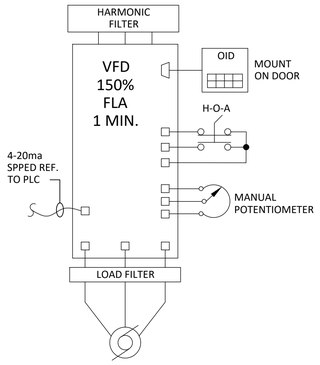
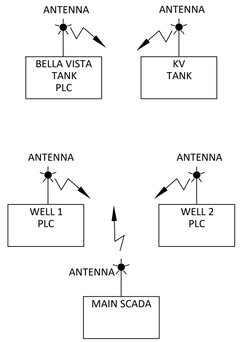
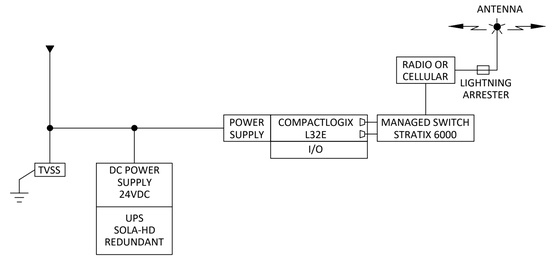


VFD DIAGRAM



SCADA BLOCK DIAGRAM

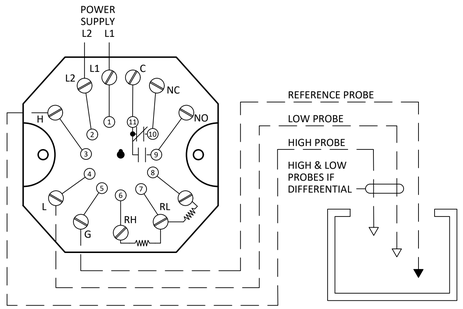
COMPACTLOGIX L322
CELLULAR OF SS ETHERNET
SCADA - INDUCTIVE AUTOMATION IGNITION
MANAGED SWITCH



BELLA VISTA PLC BLOCK DIAGRAM

BELLA VISTA PLC I/O

DIGITAL IN 120 VAC		DIGITAL IN 120 VAC		ANALOG IN	
DI1-1	Pump A VFD Hand S.S.	DI2-1	Pump A VFD #1, High Pressure Switch	AI1-1	Tank Level Transmitter, LIT
DI1-2	Pump A VFD Auto S.S.	DI2-2	Pump B VFD #2, High Pressure Switch	AI1-2	**Booster Pumps** Pressure, PIT
DI1-3	Pump A VFD Run Status	DI2-3	Pump C SSRV, High Pressure Switch	AI1-3	**Booster Pumps** Flow Transmitter, FIT
DI1-4	Pump A VFD Overtemp Switch	DI2-4	Pump C SSRV, High Pressure Switch	AI1-4	
DI1-5	Pump B VFD Hand S.S.	DI2-5	Tank Low Level Switch	AI1-5	
DI1-6	Pump B VFD Auto S.S.	DI2-6	Spare	AI1-6	
DI1-7	Pump B VFD Run Status	DI2-7	Spare	AI1-7	
DI1-8	Pump B VFD Overtemp Switch	DI2-8	Spare	AI1-8	
DI1-9	Pump C SSRV Hand S.S.	DI2-9	Spare	ANALOG OUT	
DI1-10	Pump C SSRV Auto S.S.	DI2-10	Spare	AO1-1	Pump A VFD #1, Speed Reference
DI1-11	Pump C SSRV Run Status	DI2-11	Spare	AO1-2	Pump B VFD #2, Speed Reference
DI1-12	Pump C SSRV Overtemp Switch	DI2-12	Spare	AO1-3	
DI1-13	Pump D SSRV Hand S.S.	DI2-13	Spare	AO1-4	
DI1-14	Pump D SSRV Auto S.S.	DI2-14	Spare	ANALOG OUT	
DI1-15	Pump D SSRV Run Status	DI2-15	Spare	AO2-1	**Booster Pumps** Hypo Pump Rate
DI1-16	Pump D SSRV Overtemp Switch	DI2-16	Spare	AO2-2	Spare
DIGITAL OUT 120 VAC				AO2-3	
DO1-1	Pump A VFD CR			AO2-4	
DO1-2	Pump B VFD CR				
DO1-3	Pump C SSRV CR				
DO1-4	Pump D SSRV CR				
DO1-5					
DO1-6					
DO1-7					
DO1-8					
DO1-9					
DO1-10	**Booster Pumps** Hypo Pump Run CR				
DO1-11	**Tank Fill Hypo Pump Run CR**				
DO1-12	Spare				
DO1-13	Spare				
DO1-14	Spare				
DO1-15	Spare				
DO1-16	Spare				



TYPICAL WARRICK RELAY WIRING

HYDRO TANK COMPRESSOR OPERATION

1) COMPRESSOR SHALL START AND STOP FROM PRESSURE CONTROLS FURNISHED BY MANUFACTURER. START AT 110 PSI AND STOP AT 140 PSI.

2) A NORMALLY CLOSED SOLENOID VALVE SHALL BE INSTALLED.

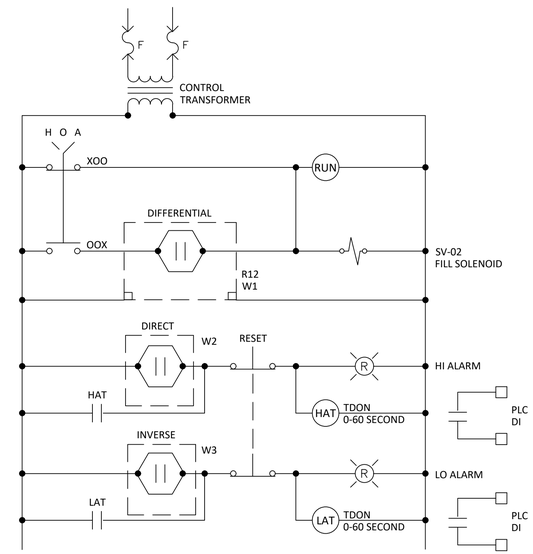
3) WATER LEVEL PROBES IN THE SURGE TANK SHALL ACTUATE SOLENOID VALVE TO ADD AIR TO THE CHAMBER WHEN REQUIRED. A SECOND PROBE WILL CLOSE THE SOLENOID VALVE WHEN PRESET LEVELS ARE MET.

HYDRO TANK LABELS:

HLS - HIGH LEVEL SWITCH
LLS - LOW LEVEL SWITCH
HPS - HIGH PRESSURE SWITCH
HAT - HIGH ALARM RELAY
LAT - LOW ALARM RELAY

ALL SWITCHES TO BE TIME DELAY ON

W1 - WARRICK DM16 DIFF MODE (W/ TIME DELAY)
W2 - WARRICK DM16 DIRECT MODE (W/ TIME DELAY)
W3 - WARRICK DM16 INVERSE MODE (W/ TIME DELAY)



CONTROL DIAGRAM FOR HYDRO TANK

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BELLA VISTA PLC

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN
CHECKED
DATE JULY 2017
SCALE AS SHOWN
FILE
JOB NO.
SHEET E4
OF SHEETS

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ELECTRICAL CONSTRUCTION MATERIAL NOTES

ABOVE GRADE - HOT DIPPED GALVANIZED RIGID STEEL CONDUIT TO BE USED FOR ALL EXTERIOR AND INTERIOR LOCATIONS ABOVE GRADE OR ELSEWHERE SHOWN ON PLANS. ALL RIGID CONDUIT AND FITTINGS TO BE THREADED. USE OF SET SCREW OR COMPRESSION TYPE CONNECTOR IS PROHIBITED. MEYERS HUBS TO BE USED ON ALL EXTERIOR PANEL CONNECTIONS.

BELOW GRADE - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 40 TO BE USED FOR ALL UNDERGROUND LOCATIONS AND BELOW VAPOR BARRIER OF SLAB. NO CONDUITS SHALL BE INSTALLED TO REDUCE THE STRUCTURAL INTEGRITY OF FOOTINGS.

CHEMICAL BUILDINGS AND CORROSIVE ATMOSPHERES - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 80 TO BE USED FOR ALL INTERIOR LOCATIONS ABOVE GRADE IN CHEMICAL BUILDINGS AND CORROSIVE ENVIRONMENTS.

THROUGH CONCRETE SLABS AND EXTERIOR CORROSIVE ATMOSPHERES - PVC COATED GALVANIZED RIGID STEEL CONDUIT MINIMUM 40 MIL FACTORY COATING TO BE USED FOR ALL EXPOSED CONDUITS THROUGH CONCRETE SLABS (MINIMUM 12" ABOVE AND BELOW SLAB) AND ALL EXTERIOR LOCATION CORROSIVE ATMOSPHERES. USE MANUFACTURERS' SPECIFIED TOOLS AND PROCEDURES FOR INSTALLATION.

MOTORS AND SENSOR CONNECTIONS - LIQUID TIGHT FLEXIBLE METAL CONDUIT (UV RESISTANT) TO ONLY BE USED ON CONNECTIONS TO MOTORS AND SENSORS OR TO ISOLATE VIBRATION. MAXIMUM LENGTH TO BE 30".

JUNCTION BOXES - MINIMUM SIZE PER NEC. EXPOSED LOCATION, 1 AND 2 GANG TO BE CAST IRON DEVICE BOXES TYPE FS/FD SUITABLE FOR WET LOCATIONS. EXPOSED LOCATION EXTERIOR LARGER SIZES CONTINUOUS HINGE TYPE 4, CORROSIVE LOCATIONS CONTINUOUS HINGE TYPE 4X STAINLESS STEEL.

GROUND CONNECTIONS - GROUND CONNECTIONS TO BE EXOTHERMIC CADWELD (ALL 600 AMP OR LARGER SERVICE) OR BURNDY HYDRAULIC COMPRESSION CONNECTORS. GROUND BUS CONNECTIONS TO BE CRIMP LUG TYPE WITH BOLTED CONNECTION TO GROUND BUS.

480 VOLT AND BELOW POWER WIRING TO BE THWN-2 600 VOLT, ALL POWER CONNECTIONS TO BE TREATED WITH ANTIOXIDANT COMPOUND. ALL VFD MOTOR CABLE TO BE SHIELDED, INVERTER DUTY.

CONTACT EPS TO SCHEDULE AN ELECTRICAL PRECONSTRUCTION MEETING PRIOR TO COMMENCING CONSTRUCTION

SYMBOL LEGEND:

- ------ = CONDUIT, UNDERGROUND
- ——— = CONDUIT, ABOVE GROUND
- (AC) = AIR COMPRESSOR
- (LS) = LEVEL SWITCH
- (SV) = SOLENOID VALVE
- (FIT) = FLOW INDICATING TRANSMITTER
- (HPS) = HIGH PRESSURE SWITCH
- (LIT) = LEVEL INDICATING TRANSMITTER
- (PIT) = PRESSURE INDICATING TRANSMITTER
- = POLE LIGHT
- = LIGHT FIXTURE - SEE FIXTURE SCHEDULE
- S = SWITCH, SINGLE POLE
- = DUPLEX RECEPTACLE, GFI, 20A, 120V
- (J) = J-BOX
- = EXHAUST FAN
- [2] = INDICATES CONDUIT AND CONDUCTOR SCHEDULE NUMBER
- (X-XXX) = INDICATES LIGHT FIXTURE NUMBER
- (E) = EXISTING
- (F) = FUTURE
- (N) = NEW

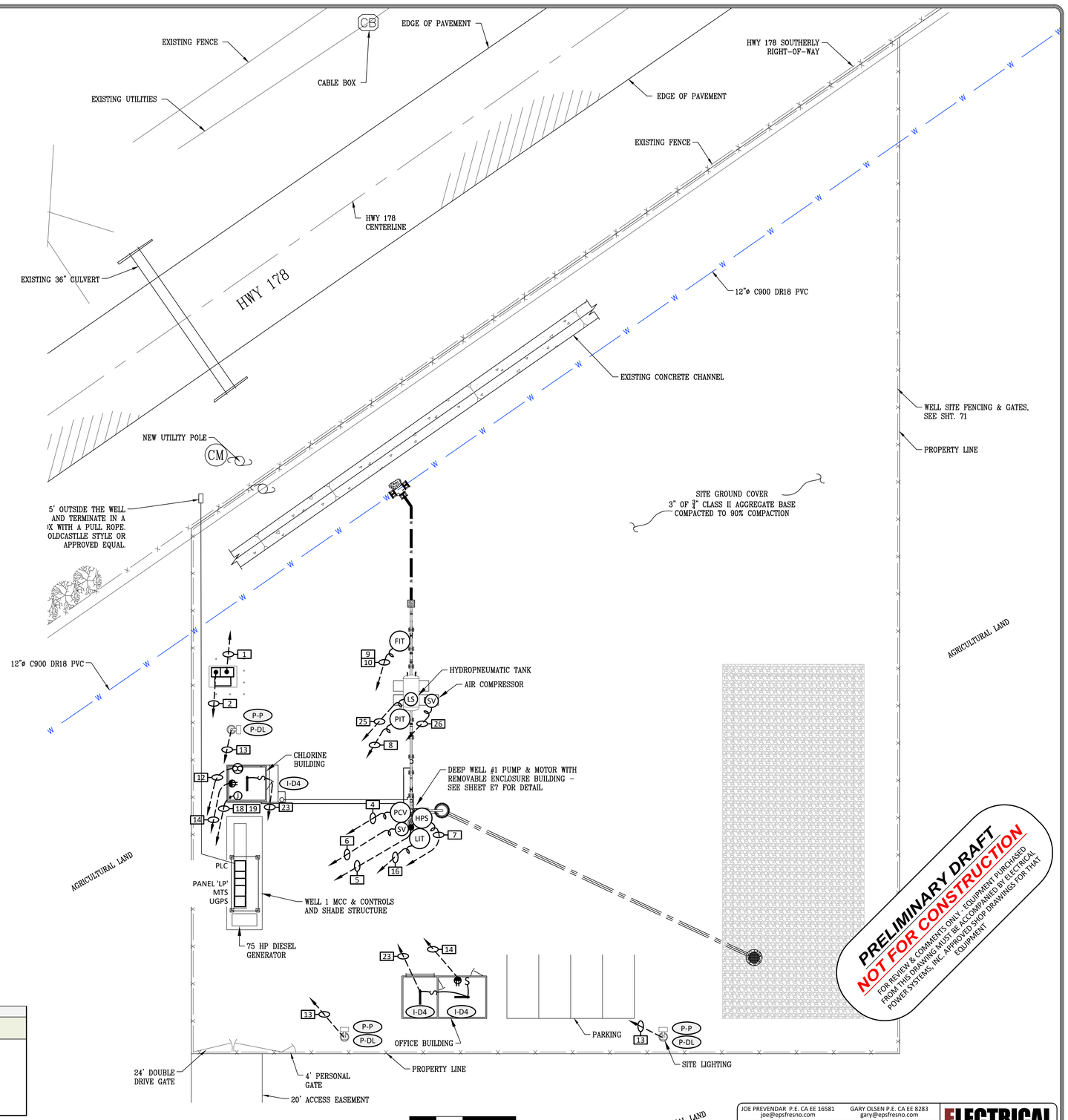
WELL 1 CABLE AND CONDUIT SCHEDULE

NO.	QTY	SIZE	NO. WIRES	WIRE SIZE	GND	FUNCTION	FROM	TO
1	Per	PGE	Per PGE	Per PGE		**PGE PRI**	PGE Pole	PGE Transformer
2	Per	PGE	Per PGE	Per PGE		PGE SEC	PGE Transformer	MCC
3	1	3"	3	6-2/PH #4/0	#1	Pump Motor	SSRV	Pump Motor
4	1	1"	6	#12	#12	Pump Control Valve	SSRV	Pump Control Valve
5	1	1"	4	#12	#12	Winding HTR/Overtemp Sw.	SSRV	Pump Motor
6	1	3/4"	2	#12	#12	Pump Lube Solenoid	SSRV	Pump Motor
7	1	1"	2	#12	#14	Pump Pressure Switch	HPS	SSRV
8	1	3/4"	1	#18 TSP		Pump Pressure Transmitter	Pump Pressure Transmitter	LC
9	1	3/4"	2	#12	#12	Flow meter power	LP	Flow Transmitter
10	1	3/4"	2	#18 TSP		Flow 4-20ma/Totalizer	Flow Transmitter	LC
11								
12	1	3/4"	2	#12	#12	Chlorination Bldg Vent Fan	LP	Chlorination Bldg Vent Fan
13	1	3/4"	2	#10	#10	Outside Flood Lighting	LP	Outside Flood Lighting
14	1	3/4"	2	#12	#12	GFI Outlets	LP	GFI Outlets
15	1	3/4"	2	#12	#12	Chlorination Bldg Light	LP	Chlorination Bldg Light
16	1	3/4"	2	#18 TSP		Well Level	LIT	LC
17	1	3/4"	2	#12	#12	Sunscreen Light	LP	Sunscreen Light
18	1	3/4"	4	#12	#12	Hypo Metering Pump Power	LP/SSRV	CPP/Hypo Metering Drive
19	1	3/4"	2	TSP		Hypo Metering Pump Rate	LC	Hypo Metering Drive
20	1	2"	1	Per Telco		Telephone	Telco	Dialer
21	1	2"	1	Pullcord		Telephone	Telco	PGE Meter
22	1	3/4"	2	#12	#12	Irrigation Control	LP	(F) Irrigation Control
23	1	3/4"	2	#12	#12	Office Bldg Light	LP	Office Bldg Light
24								
25	1	1"	8	#14	#14	Warrick Hydro Level Sw.	MCC	Hydro Tank
26	1	3/4"	8	#12	#12	Hydro Air Compressor & Control	MCC	Hydro Compressor
27	1	1"	6	#12	#12	Storage Tank Level Floats	Storage Tank Level Floats	SSRV
28	1	1"	1	#18 TSP		Storage Tank Level Trans.	Storage Tank Level Trans.	LC
29								
30	1	3/4"	2	#12	#12	Battery Charger - Port. Gen.	LP	20A Outlet
31	1	3/4"	2	#10	#10	Jacket Water Heater - Port. Gen.	LP	30A Outlet
32	1	3/4"	2	#10	#10	Space Heater - Port. Gen.	LP	30A Outlet
33								
34								
35								

FIXTURE SCHEDULE:

I = INTERIOR FIXTURE E = EXTERIOR FIXTURE P = POLE MOUNTED FIXTURES/POLES

FIXTURE DESIGN	DESCRIPTION	LAMP # & TYPE	FIXTURE WATTS	FIXTURE MOUNTING	MANUFACTURER
J	2'x3" LENSED STRIP	LED		SURF	METALUX SNLED LD (WATTS) LC UNV L850 CD1
I-LO	8'X3"LENSED STRIP	LED	50.1	SURF	METALUX 8TSNLED LD4 90SL LC UNV L850 LB-ERMS360 CD2
I-SP	SWITCHPAK			ON JBOX	EATON SP20-MBV
E-A	LED WALL PACK	LED	58	WALL	LUMARK XTOR6B W (APC/MOTION SENSOR OPTION)
E-X1	EMERGENCY HEAD	LED	2	UNV	BARRON MLED1 (1 LAMP) OR MLED2 (2 LAMP)
P-DL	FLOOD LIGHT	LED	256	POLE	LUMARK NFFLD-L B100 D UNV 66 S CB OA/RA1016 VSHW/NFFLD
P-P	POLE FOR AREA ROADWAY LUMINAIRE	N/A	N/A	BASE	LUMARK SSS 4 M 15 S F (FOR P-DL SLIPFITTER)



PARCEL 426-400-06
RECORD OF SURVEY MAP NO. 153
BOOK 24, KERN CO. RECORDER
PRINCE DAVID LAWRANCE
APN 426-400-06

0 7.5' 15' 30'

N

WELL 1 SITE ELECTRICAL PLAN

SCALE: 1" - 15'-0"

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WELL 1 SITE ELECT. PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

JOE PREVENDAR P.E. CA EE 16581 joe@epsfresno.com
GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: DJA17102 | DATE: JUN 2017
FILE: DJA102-WELL1-E5-SITE
PLOT: 6/29/2017 3:42 PM / 1:1
DSGN: LKB | DRWN: CRT

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ELECTRICAL POWER SYSTEMS INC.
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DATE	JULY 2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	E5
OF	SHEETS

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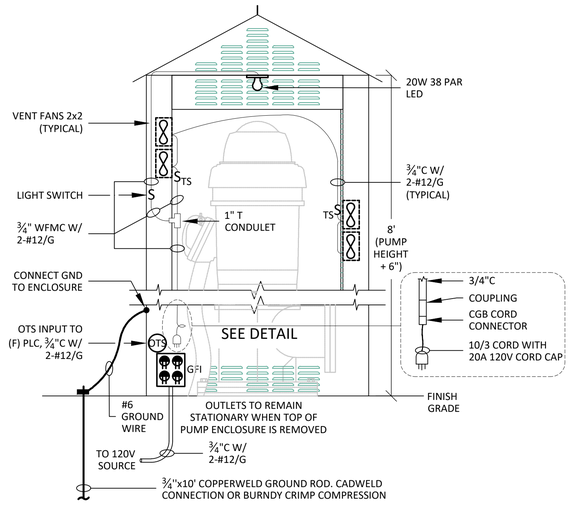


REMOVABLE MOTOR ENCLOSURE

NOTES:

1) ENCLOSURE TO BE REMOVABLE FOR PUMP MAINTENANCE.
2) ALL ELECTRICAL TO BE PLUG-RECEPTACLE OR FREESTANDING.
3) GROUND CONNECTION TO ENCLOSURE SHALL BE CRIMP LUG BOLTED TO ENCLOSURE.

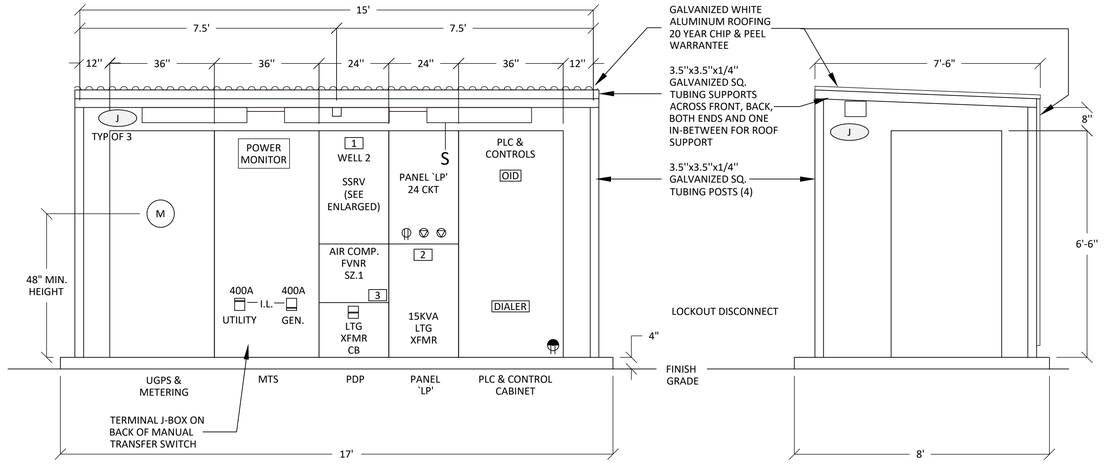
TS = THERMOSTATIC MOTOR RATED TEMPERATURE SWITCH

OTS = OVER TEMPERATURE SWITCH

PANEL SCHEDULE

PANEL LP
200 AMP 240/120V 1PH

CKT	DESCRIPTION / LOCATION	BRKR	PLS	Aph	Bph
1	PLC	20	1	6.00	
3	Motor Winding Heater	20	1		5.00
5	Chlorine Metering Pump	20	1	2.00	
7	Outside Floodlighting	20	1		10.00
9	Hydropneumatic Controller	20	1	2.00	
11	GFI Outlets	20	1		5.00
13	Well Enclosure Lights	20	1	1.00	
15	Well Enclosure Outlet	20	1		2.00
17	Well enclosure Fan	20	1	10.00	
19	Sunshade Light	20	1		1.00
21					
23					
25					
27					
29					
2	(F) Arsenic Panel	30	2	20.00	
4	"	"	"		20.00
6	(F) Arsenic Processing	50	1	30.00	
8	(F) Jacket Water Heater	30	1		25.00
10	Space Heater	20	1	5.00	
12	Battery Charger	20	1		2.00
14	Irrigation Controller	20	1	1.00	
16	Spare	20	1		0.00
18	Spare	20	1	0.00	
20					
22					
24					
26					
28					
30					
PANEL CONNECTED LOAD / PHASE				77.0	70.0
PANEL CONNECTED LOAD		**147.0**	**AMP**	**17.6**	**KW**

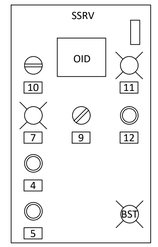


WELL 1 MCC (NEMA 3R) AND SUNSCREEN ELEVATION

NOT TO SCALE

NOTES:

1) ALL DIMENSIONS NOMINAL
2) NEMA 3R, DUST TIGHT.
3) LED LIGHT IN EACH SECTION.
4) MAINTENANCE DUPLEX OUTLET.
5) SUN SHADE
6) PAINT PER CITY SPECS.
7) TVSS 240KA/PH W/30/3 CB
8) HPS = 0-150PSI, MERCOID DAW SNAP ACTION OR EQUAL.



SSRV ENLARGED

WELL 1 NAMEPLATE SCHEDULE

No.	Text	Color	Pilot Light
1	Well	White/Black Letters	Lockout Disconnect
	Pump		
	75 HP		
2	15 KVA	White/Black Letters	Lockout Disconnect
	Transformer		
3	Air	White/Black Letters	Lockout Disconnect
	Compressor		
4	Start	White/Black Letters	
5	Stop	White/Black Letters	
6	Speed	White/Black Letters	
7	Run	White/Black Letters	Green
8	Start	White/Black Letters	
9	Hand-Off-Auto	White/Black Letters	
10	ETM	White/Black Letters	
11	Fault	White/Black Letters	Red
12	Reset	White/Black Letters	

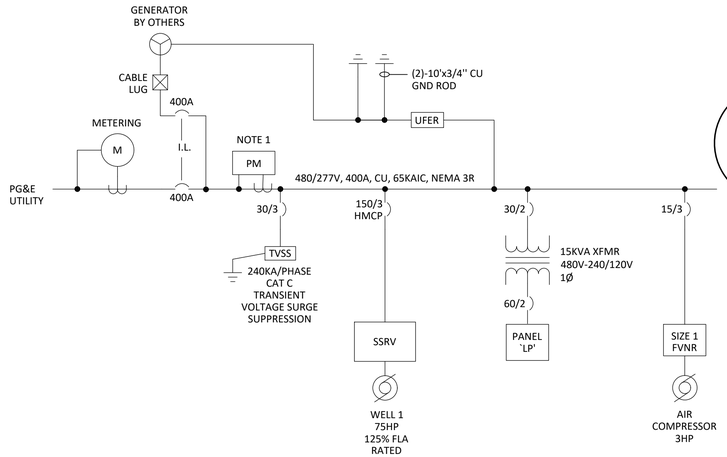
WELL 1 MOTOR & LOAD LIST

MCC Motor List

Item	Name	ID	Timing	Type	HP	FLA	Voltage	Starter typ	VFD	HOA	I-lock	Power on	Running	Fail	ETM	Remarks
1	Well Pump		New	WP1	75	93	460	VFD	Y	Y	HP		Y	Y	Y	
2	Chemical Pump		New		1	1	120	FVNR		Y	LP		Y	Y		
3	Fluoride Pump		New		1	1	120	FVNR		N	LP		Y	Y		
4	Air Compressor		New		3	5	460	FVNR								
5																
6																

Load Calculations 480V

Item	Name	FLA
1	Well Pump	93
2	Generator Aux.	7
3	Air Compressor	5
4	Lts. & misc.	7
5		
6		
	Total	112
	80% rating	140



WELL 1 SINGLE LINE DIAGRAM

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NOTE:

1) POWER MONITOR TO BE SCHNEIDER PM5500, EATON XPERT METER 2280, ELECTRO INDUSTRIES SHARK 200V4 OR EQUAL WITH ETHERNET.

REDUCED DRAWINGS ARE NOT TO SCALE

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JOB: DJA17102 | DATE: JUN 2017
FILE: DJA102-WELL1-E6-SL
PLOT: 6/29/2017 3:43 PM / 1:1
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WELL 1 SINGLE LINE & ELEVATION
WELDON REGIONAL WATER SYSTEM
WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

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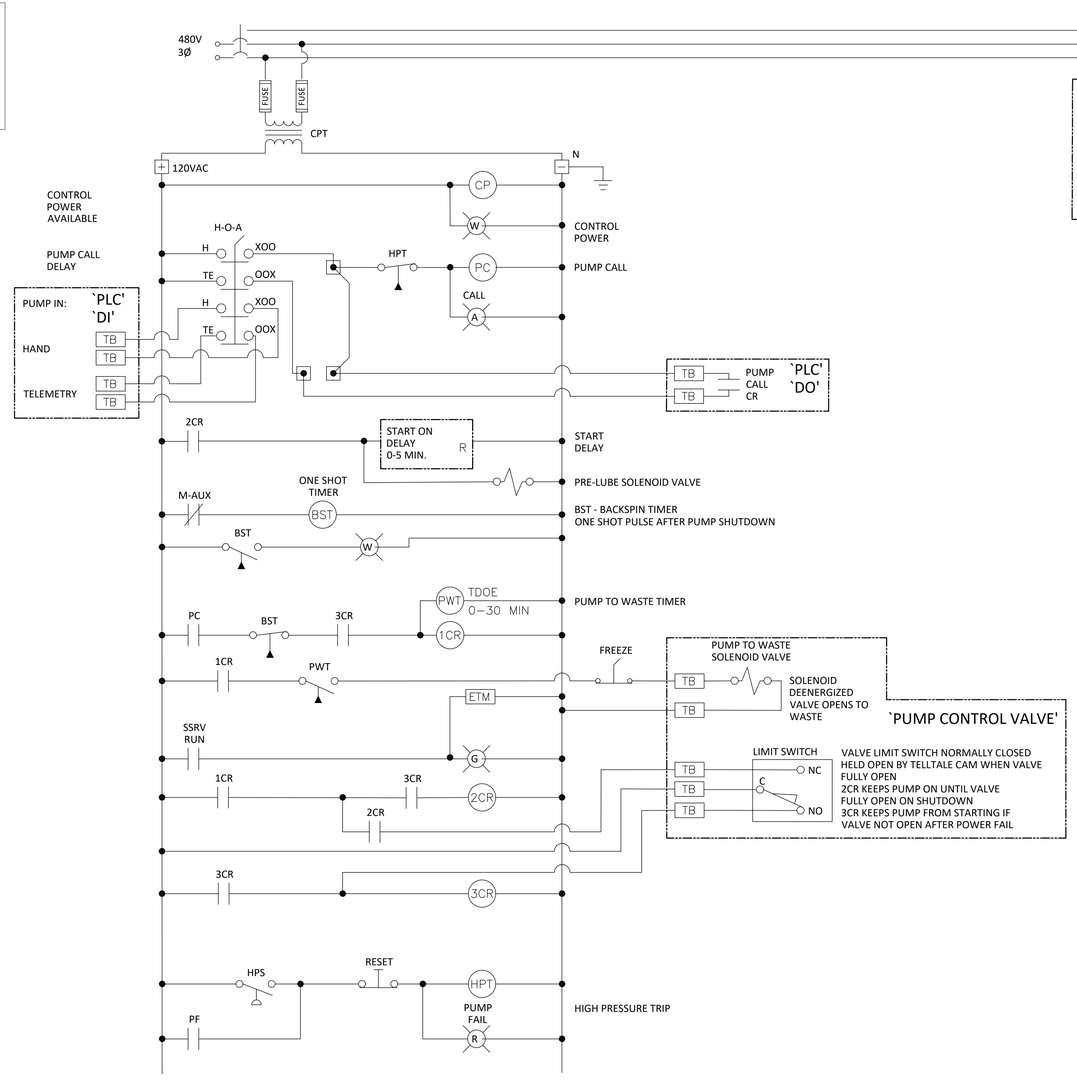


WELL CONTROL DIAGRAM

WELL TANK FILL SSRV CONTROLS:

A. GENERAL

THE WELL PUMP HAS 2 MODES OF OPERATION: AUTO, HAND. THESE MODES ARE SELECTED BY A SELECTOR SWITCH ON THE PUMP STARTER. THE PUMP STARTER IS REDUCED VOLTAGE TO REDUCE ELECTRICAL IMPACT LOADING AND WATER HAMMER TO THE PIPING SYSTEM.

SIGNAL INPUTS INCLUDE WELL FLOW, ANALOG PRESSURE, AND PRESSURE SWITCHES.

THE STARTUP SEQUENCE IS AS FOLLOWS:

* ADJUSTABLE LOW TANK LEVEL SET POINT REACHED.
* PRE LUBE SOLENOID ENERGIZES.
* WELL PUMP SSRV STARTS AFTER DELAY.
* CHEMICAL PUMP ON FLOW.

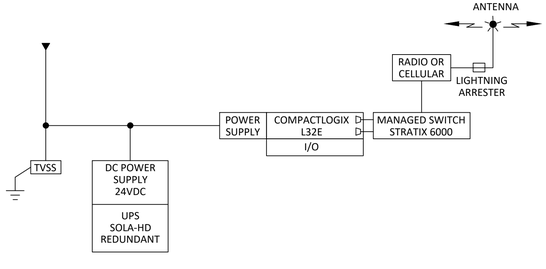
THE SHUTDOWN SEQUENCE IS AS FOLLOWS:

* PUMPING MODE COMMANDED TO STOP ON AN ADJUSTABLE HIGH TANK LEVEL INTERLOCK.
* THE PUMP CONTROL VALVE IS DE-ENERGIZED BUT THE PUMP CONTINUES TO RUN UNTIL A LIMIT SWITCH ON THE VALVE STOPS THE PUMP.
* AN ADJUSTABLE BACKSPIN TIMER STARTS TIMING ON PUMP SHUTDOWN PREVENTING PUMP RESTART UNTIL THE WATER COLUMN HAD SETTLED.

B. MODES OF OPERATION

1. AUTO MODE: THE AUTO MODE IS PLC CONTROL USING THE LOW LEVEL SET POINT TO START THE PUMP AND THE HIGH LEVEL STOP SET POINT TO STOP THE PUMP.
2. HAND MODE: THE HAND MODE IS A MAINTENANCE TEST MODE TO RUN THE PUMP LOCALLY.

GRUNDFOS DDA CHEMICAL FEED PUMP WIRING



WELL 1 PLC BLOCK DIAGRAM

WELL 1 PLC I/O LIST

DIGITAL IN 120 VAC		DIGITAL OUT CR		TELEMETRY DATA	
DI1-1	Well SSRV Run	DO1-1	Well SSRV Start	FROM WELL	
DI1-2	SSRV Fault	DO1-2	Well Fault - Dialer	1	Pump run
DI1-3	Well Auto S.S.	DO1-3	Low Press. Alarm - Dialer	2	Well Flow
DI1-4	Well Hand S.S.	DO1-4	High Press. Alarm - Dialer	3	Discharge Pressure
DI1-5	High Pressure Sw.	DO1-5	Power Fail - Dialer	4	Well Fault
DI1-6	Power Fail	DO1-6	Intrusion Alarm - Dialer	5	Intrusion Alarm
DI1-7	Intrusion Alarm Sw.	DO1-7		TELEMETRY DATA	
DI1-8	Spare	DO1-8		TO WELL	
DI1-9	Spare	ANALOG IN		1	Well start
DI1-10	Spare	AI1-1	Well Flow	2	Pressure Setpoint
DI1-11	Spare	AI1-2	Well Discharge Pressure	3	
DI1-12	Spare	AI1-3	Well Level		
DI1-13	Spare	AI1-4	Chlorine Residual (Future)		
DI1-14	Spare	ANALOG OUT			
DI1-15	Spare	AI1-1	Well Speed Reference		
DI1-16	Spare	AI1-2	CI Metering Reference		
RTD IN PLATINUM		AI1-3			
RTD-1	Well Motor RTD #1	AI1-4			
RTD-2	Well Motor RTD #2				
RTD-3	Well Motor RTD #3				
RTD-4	Well Motor RTD #4				
RTD-5	Well Motor RTD #5				
RTD-6	Well Motor RTD #6				
RTD-7	Upper Motor Bearing RTD #7				
RTD-8	Lower Motor Bearing RTD #8				

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WELL 1 CONTROL DIAGRAM

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

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ELECTRICAL CONSTRUCTION MATERIAL NOTES

ABOVE GRADE - HOT DIPPED GALVANIZED RIGID STEEL CONDUIT TO BE USED FOR ALL EXTERIOR AND INTERIOR LOCATIONS ABOVE GRADE OR ELSEWHERE SHOWN ON PLANS. ALL RIGID CONDUIT AND FITTINGS TO BE THREADED. USE OF SET SCREW OR COMPRESSION TYPE CONNECTOR IS PROHIBITED. MEYERS HUBS TO BE USED ON ALL EXTERIOR PANEL CONNECTIONS.

BELOW GRADE - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 40 TO BE USED FOR ALL UNDERGROUND LOCATIONS AND BELOW VAPOR BARRIER OF SLAB. NO CONDUITS SHALL BE INSTALLED TO REDUCE THE STRUCTURAL INTEGRITY OF FOOTINGS.

CHEMICAL BUILDINGS AND CORROSIVE ATMOSPHERES - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 80 TO BE USED FOR ALL INTERIOR LOCATIONS ABOVE GRADE IN CHEMICAL BUILDINGS AND CORROSIVE ENVIRONMENTS.

THROUGH CONCRETE SLABS AND EXTERIOR CORROSIVE ATMOSPHERES - PVC COATED GALVANIZED RIGID STEEL CONDUIT MINIMUM 40 MIL FACTORY COATING TO BE USED FOR ALL EXPOSED CONDUITS THROUGH CONCRETE SLABS (MINIMUM 12" ABOVE AND BELOW SLAB) AND ALL EXTERIOR LOCATION CORROSIVE ATMOSPHERES. USE MANUFACTURERS' SPECIFIED TOOLS AND PROCEDURES FOR INSTALLATION.

MOTORS AND SENSOR CONNECTIONS - LIQUID TIGHT FLEXIBLE METAL CONDUIT (UV RESISTANT) TO ONLY BE USED ON CONNECTIONS TO MOTORS AND SENSORS OR TO ISOLATE VIBRATION. MAXIMUM LENGTH TO BE 30".

JUNCTION BOXES - MINIMUM SIZE PER NEC. EXPOSED LOCATION, 1 AND 2 GANG TO BE CAST IRON DEVICE BOXES TYPE FS/FD SUITABLE FOR WET LOCATIONS. EXPOSED LOCATION EXTERIOR LARGER SIZES CONTINUOUS HINGE TYPE 4, CORROSIVE LOCATIONS CONTINUOUS HINGE TYPE 4X STAINLESS STEEL.

GROUND CONNECTIONS - GROUND CONNECTIONS TO BE EXOTHERMIC CADWELD (ALL 600 AMP OR LARGER SERVICE) OR BURNDY HYDRAULIC COMPRESSION CONNECTORS. GROUND BUS CONNECTIONS TO BE CRIMP LUG TYPE WITH BOLTED CONNECTION TO GROUND BUS.

480 VOLT AND BELOW POWER WIRING TO BE THWN-2 600 VOLT, ALL POWER CONNECTIONS TO BE TREATED WITH ANTIOXIDANT COMPOUND. ALL VFD MOTOR CABLE TO BE SHIELDED, INVERTER DUTY.

CONTACT EPS TO SCHEDULE AN ELECTRICAL PRECONSTRUCTION MEETING PRIOR TO COMMENCING CONSTRUCTION

WELL 2 CONDUIT AND CONDUCTOR SCHEDULE:

NO.	QTY	SIZE	NO. WIRE	WIRE SIZE	GND	FUNCTION	FROM	TO
1	Per	PGE	Per PGE	Per PGE		**PGE PRI**	PGE Pole	PGE Transformer
2	Per	PGE	Per PGE	Per PGE		PGE SEC	PGE Transformer	MCC
3	1	3"	3	6-2/PH #4	#1	Pump Motor	SSRV	Pump Motor
4	1	1"	6	#12	#12	Pump Control Valve	SSRV	Pump Control Valve
5	1	1"	4	#12	#12	Winding HTR/Overtemp Sw.	SSRV	Pump Motor
6	1	3/4"	2	#12	#12	Pump Lube Solenoid	SSRV	Pump Motor
7	1	1"	2	#12	#14	Pump Pressure Switch	HPS	SSRV
8	1	3/4"	1	#18 TSP		Pump Pressure Transmitter	Pump Pressure Transmitter	LC
9	1	3/4"	2	#12	#12	Flow meter power	LP	Flow Transmitter
10	1	3/4"	2	#18 TSP		Flow 4-20ma/Totalizer	Flow Transmitter	LC
11								
12	1	3/4"	2	#12	#12	Chlorination Bldg Vent Fan	LP	Chlorination Bldg Vent Fan
13	1	3/4"	2	#10	#10	Outside Flood Lighting	LP	Outside Flood Lighting
14	1	3/4"	2	#12	#12	GFI Outlets	LP	GFI Outlets
15	1	3/4"	2	#12	#12	Chlorination Bldg Light	LP	Chlorination Bldg Light
16	1	3/4"	2	#18 TSP		Well Level	LIT	LC
17	1	3/4"	2	#12	#12	Sunscreen Light	LP	Sunscreen Light
18	1	3/4"	4	#12	#12	Hypo Metering Pump Power	LP/SSRV	CPP/Hypo Metering Drive
19	1	3/4"	2	TSP		Hypo Metering Pump Rate	LC	Hypo Metering Drive
20	1	2"	1	Per Telco		Telephone	Telco	Dialer
21	1	2"	1	Pullcord		Telephone	Telco	PGE Meter
22	1	3/4"	2	#12	#12	Irrigation Control	LP	(F) Irrigation Control
23								
24								
25	1	1"	8	#14	#14	Warrick Hydro Level Sw.	MCC	Hydro Tank
26	1	3/4"	8	#12	#12	Hydro Air Compressor & Control	MCC	Hydro Compressor
27	1	1"	6	#12	#12	Storage Tank Level Floats	Storage Tank Level Floats	SSRV
28	1	1"	1	#18 TSP		Storage Tank Level Trans.	Storage Tank Level Trans.	LC
29								
30	1	3/4"	2	#12	#12	Battery Charger - Port. Gen.	LP	20A Outlet
31	1	3/4"	2	#10	#10	Jacket Water Heater - Port. Gen.	LP	30A Outlet
32	1	3/4"	2	#10	#10	Space Heater - Port. Gen.	LP	30A Outlet
33								
34								
35								

SYMBOL LEGEND:

---------- = CONDUIT, UNDERGROUND

———— = CONDUIT, ABOVE GROUND

(AC) = AIR COMPRESSOR

(LS) = LEVEL SWITCH

(SV) = SOLENOID VALVE

(FIT) = FLOW INDICATING TRANSMITTER

(HPS) = HIGH PRESSURE SWITCH

(LIT) = LEVEL INDICATING TRANSMITTER

(PIT) = PRESSURE INDICATING TRANSMITTER

= POLE LIGHT

= LIGHT FIXTURE - SEE FIXTURE SCHEDULE

S = SWITCH, SINGLE POLE

= DUPLEX RECEPTACLE, GFI, 20A, 120V

(J) = J-BOX

= EXHAUST FAN

2 = INDICATES CONDUIT AND CONDUCTOR SCHEDULE NUMBER

X-XXX = INDICATES LIGHT FIXTURE NUMBER

(E) = EXISTING

(F) = FUTURE

(N) = NEW

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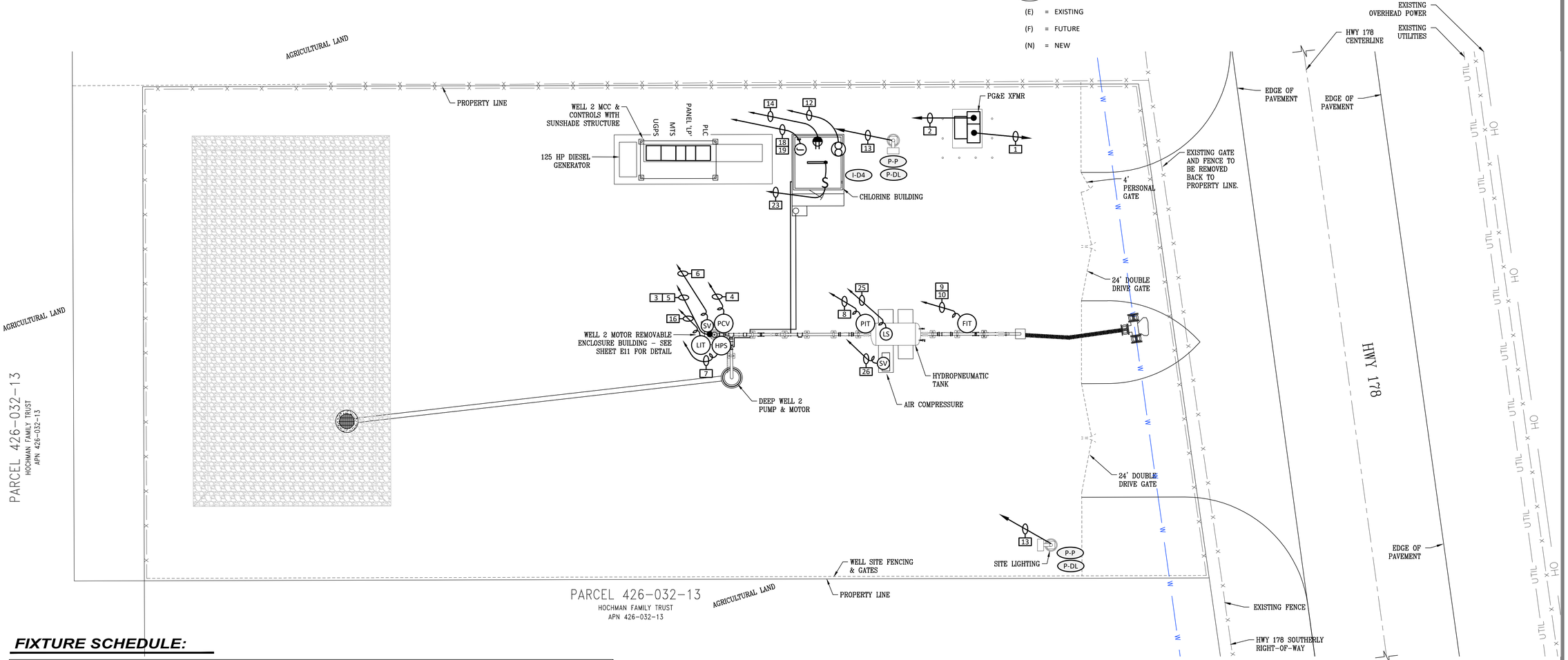

FIXTURE SCHEDULE:

I = INTERIOR FIXTURE E = EXTERIOR FIXTURE P = POLE MOUNTED FIXTURES/POLES

FIXTURE DESIGN	DESCRIPTION	LAMP # & TYPE	FIXTURE WATTS	FIXTURE MOUNTING	MANUFACTURER
J	2'x3" LENSED STRIP	LED			METALUX SNLED LD (WATTS) LC UNV L850 CD1
I-LO	8'X3"LENSED STRIP	LED	50.1	SURF	METALUX 8TSNLED LD4 90SL LC UNV L850 LB-ERMS360 CD2
I-SP	SWITCHPAK			ON JBOX	EATON SP20-MBV
E-A	LED WALL PACK	LED	58	WALL	LUMARK XTOR6B W (APC/MOTION SENSOR OPTION)
E-X1	EMERGENCY HEAD	LED	2	UNV	BARRON MLED1 (1 LAMP) OR MLED2 (2 LAMP)
P-DL	FLOOD LIGHT	LED	256	POLE	LUMARK NFFLD-L B100 D UNV 66 S CB OA/RA1016 VSHW/NFFLD
P-P	POLE FOR AREA ROADWAY LUMINAIRE	N/A	N/A	BASE	LUMARK SSS 4 M 15 S F (FOR P-DL SLIPFITTER)

0 5' 10' 20'

WELL 2 SITE ELECTRICAL PLAN

SCALE: 1" - 10'-0"

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WELL 2 SITE ELECTRICAL

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN

CHECKED

DATE
JULY 2017

SCALE
AS SHOWN

FILE

JOB NO.

SHEET
E8

OF SHEETS

JOE PREVENDAR P.E. CA EE 16581 joe@epsfresno.com
GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: DJA17102 DATE: JUN 2017
FILE: DJA102-WELL2-E8-SITE
PLOT: 6/29/2017 3:46 PM / 1:1
DSGN: LKB DRWN: CRT

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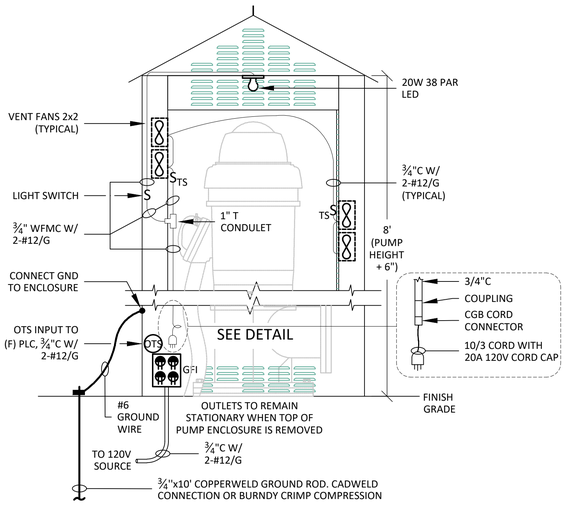


REMOVABLE MOTOR ENCLOSURE

NOTES:

1) ENCLOSURE TO BE REMOVABLE FOR PUMP MAINTENANCE.
2) ALL ELECTRICAL TO BE PLUG-RECEPTACLE OR FREESTANDING.
3) GROUND CONNECTION TO ENCLOSURE SHALL BE CRIMP LUG BOLTED TO ENCLOSURE.

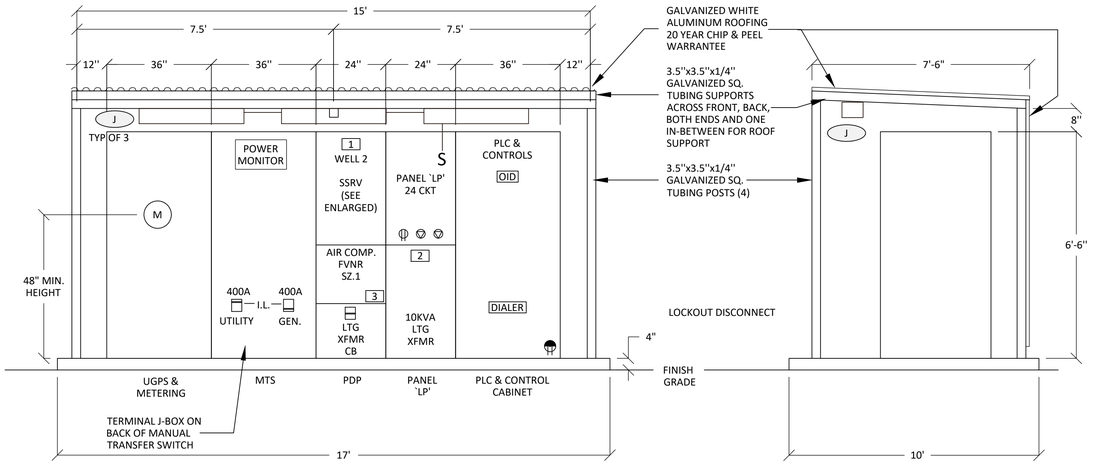
TS = THERMOSTATIC MOTOR RATED TEMPERATURE SWITCH

OTS = OVER TEMPERATURE SWITCH

PANEL SCHEDULE

PANEL LP
200 AMP 240/120V 1PH

CKT	DESCRIPTION / LOCATION	BRKR	PLS	Aph	Bph
1	PLC	20	1	6.00	
3	Motor Winding Heater	20	1		5.00
5	Chlorine Metering Pump	20	1	2.00	
7	Outside Floodlighting	20	1		10.00
9	Hydropneumatic Controller	20	1	2.00	
11	GFI Outlets	20	1		5.00
13	Well Enclosure Lights	20	1	1.00	
15	Well Enclosure Outlet	20	1		2.00
17	Well enclosure Fan	20	1	10.00	
19	Sunshade Light	20	1		1.00
21					
23					
25					
27					
29					
2	(F) Arsenic Panel	30	2	20.00	
4	"	"	"		20.00
6	(F) Arsenic Processing	50	1	30.00	
8	(F) Jacket Water Heater	30	1		25.00
10	Space Heater	20	1	5.00	
12	Battery Charger	20	1		2.00
14	Irrigation Controller	20	1	1.00	
16	Spare	20	1		0.00
18	Spare	20	1	0.00	
20					
22					
24					
26					
28					
30					
PANEL CONNECTED LOAD / PHASE				77.0	70.0
PANEL CONNECTED LOAD		147.0	AMP	17.6	KW



FRONT VIEW (SHOWN WITH DOORS OPEN)

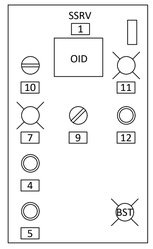
SIDE VIEW

WELL 2 MCC (NEMA 3R) AND SUNSCREEN ELEVATION

NOT TO SCALE

NOTES:

1) ALL DIMENSIONS NOMINAL
2) NEMA 3R, DUST TIGHT.
3) LED LIGHT IN EACH SECTION.
4) MAINTENANCE DUPLEX OUTLET.
5) SUN SHADE
6) PAINT PER CITY SPECS.
7) TVSS 240KA/PH W/30/3 CB
8) HPS = 0-150PSI, MERCOID DAW SNAP ACTION OR EQUAL.



SSRV ENLARGED

WELL 2 NAMEPLATE SCHEDULE

No.	Text	Color	Pilot Light
1	Well	White/Black Letters	Lockout Disconnect
	Pump		
	75 HP		
2	15 KVA	White/Black Letters	Lockout Disconnect
	Transformer		
3	Air	White/Black Letters	Lockout Disconnect
	Compressor		
4	Start	White/Black Letters	
5	Stop	White/Black Letters	
6	Speed	White/Black Letters	
7	Run	White/Black Letters	Green
8	Start	White/Black Letters	
9	Hand-Off-Auto	White/Black Letters	
10	ETM	White/Black Letters	
11	Fault	White/Black Letters	Red
12	Reset	White/Black Letters	

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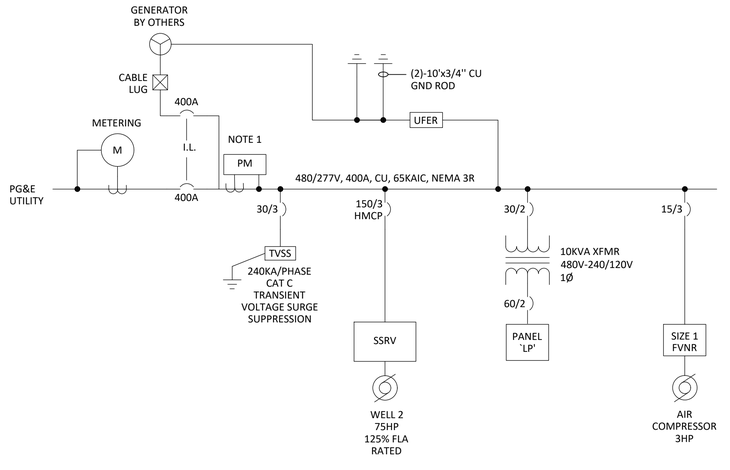
WELL 2 MOTOR & LOAD LIST

MCC Motor List

Item	Name	ID	Timing	Type	HP	FLA	Voltage	Starter typ	VFD	HOA	I-lock	Power on	Running	Fail	ETM	Remarks
1	Well Pump		New	WP1	75	93	460	VFD	Y	Y	HP		Y	Y	Y	
2	Chemical Pump		New		1	1	120	FVNR		Y	LP		Y	Y		
3	Fluoride Pump		New		1	1	120	FVNR		N	LP		Y	Y		
4	Air Compressor		New		3	5	460	FVNR								
5																
6																

Load Calculations 480V

Item	Name	FLA
1	Well Pump	93
2	Generator Aux.	7
3	Air Compressor	5
4	Lts. & misc.	7
5		
6		
Total		112
80% rating		140



WELL 2 SINGLE LINE DIAGRAM

NOTES:

1) POWER MONITOR TO BE SCHNEIDER PM5500, EATON XPERT METER 2280, ELECTRO INDUSTRIES SHARK 200V4 OR EQUAL WITH ETHERNET.

REDUCED DRAWINGS ARE NOT TO SCALE

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GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: DJA17102 | DATE: JUN 2017
FILE: DJA102-WELL2-E9-SL
PLOT: 6/29/2017 3:47 PM / 1:1
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WELL 2 SITE SINGLE LINE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

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SCALE AS SHOWN
FILE
JOB NO.
SHEET E9
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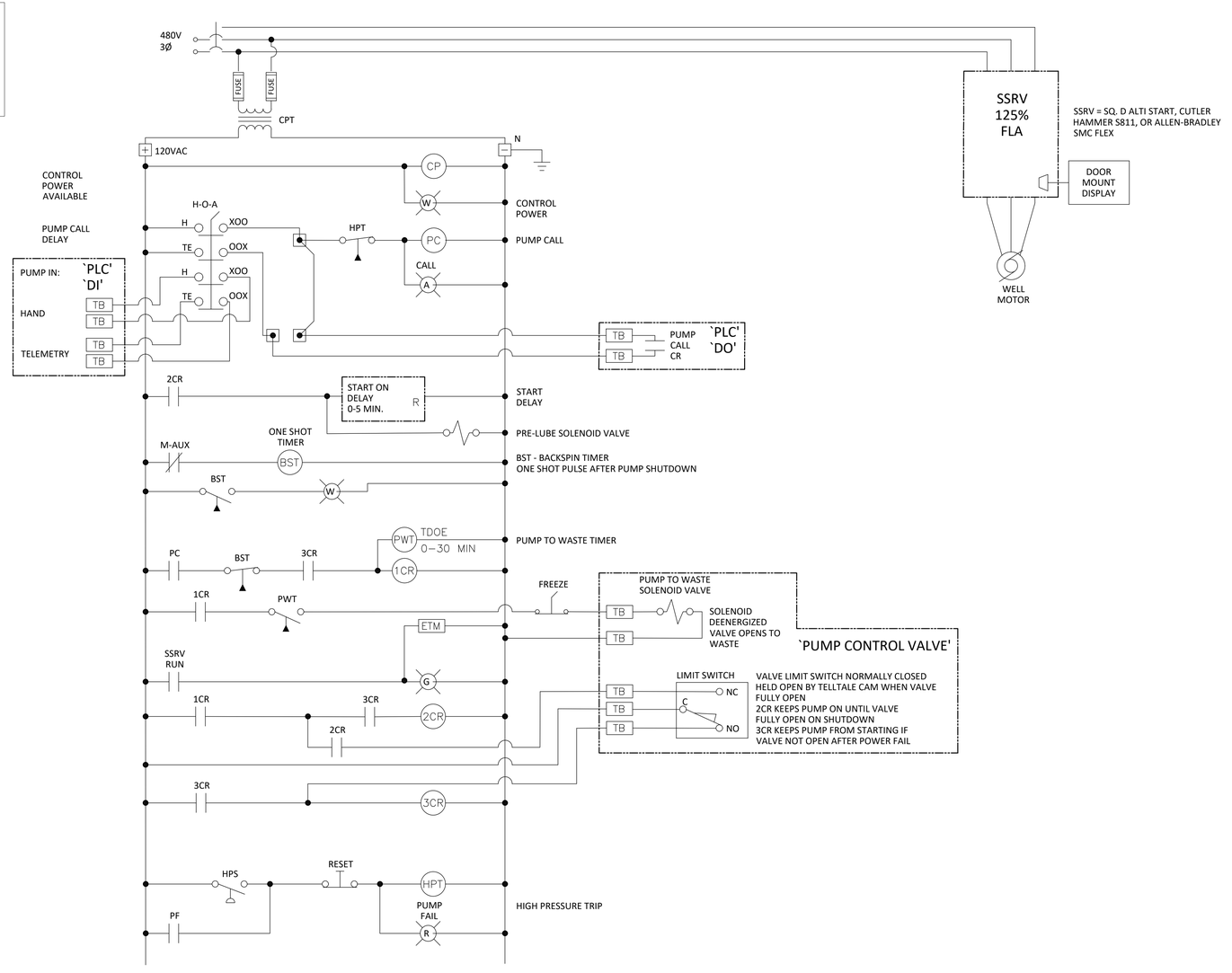


WELL CONTROL DIAGRAM

WELL TANK FILL SSRV CONTROLS:

A. GENERAL
THE WELL PUMP HAS 2 MODES OF OPERATION: AUTO, HAND. THESE MODES ARE SELECTED BY A SELECTOR SWITCH ON THE PUMP STARTER. THE PUMP STARTER IS REDUCED VOLTAGE TO REDUCE ELECTRICAL IMPACT LOADING AND WATER HAMMER TO THE PIPING SYSTEM.

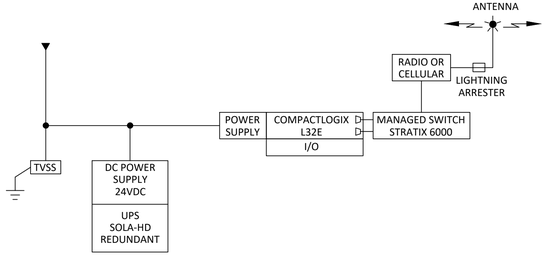
SIGNAL INPUTS INCLUDE WELL FLOW, ANALOG PRESSURE, AND PRESSURE SWITCHES.

THE STARTUP SEQUENCE IS AS FOLLOWS:
* ADJUSTABLE LOW TANK LEVEL SET POINT REACHED.
* PRE LUBE SOLENOID ENERGIZES.
* WELL PUMP SSRV STARTS AFTER DELAY.
* CHEMICAL PUMP ON FLOW.

THE SHUTDOWN SEQUENCE IS AS FOLLOWS:
* PUMPING MODE COMMANDED TO STOP ON AN ADJUSTABLE HIGH TANK LEVEL INTERLOCK.
* THE PUMP CONTROL VALVE IS DE-ENERGIZED BUT THE PUMP CONTINUES TO RUN UNTIL A LIMIT SWITCH ON THE VALVE STOPS THE PUMP.
* AN ADJUSTABLE BACKSPIN TIMER STARTS TIMING ON PUMP SHUTDOWN PREVENTING PUMP RESTART UNTIL THE WATER COLUMN HAD SETTLED.

B. MODES OF OPERATION
1. AUTO MODE: THE AUTO MODE IS PLC CONTROL USING THE LOW LEVEL SET POINT TO START THE PUMP AND THE HIGH LEVEL STOP SET POINT TO STOP THE PUMP.
2. HAND MODE: THE HAND MODE IS A MAINTENANCE TEST MODE TO RUN THE PUMP LOCALLY.

GRUNDFOS DDA CHEMICAL FEED PUMP WIRING



WELL 2 PLC BLOCK DIAGRAM

WELL 2 PLC I/O LIST

DIGITAL IN 120 VAC		DIGITAL OUT CR		TELEMETRY DATA	
DI1-1	Well 2 SSRV Run	DO1-1	Well 2 SSRV Start	FROM WELL	
DI1-2	Well 2 SSRV Fault	DO1-2		1	Pump run
DI1-3	Well 2 Auto S.S.	DO1-3		2	Well 2 Flow
DI1-4	Well 2 Hand S.S.	DO1-4		3	Discharge Pressure
DI1-5	High Pressure Sw.	DO1-5		4	Well 2 Fault
DI1-6	Power Fail	DO1-6		5	Intrusion Alarm
DI1-7	Intrusion Alarm Sw.	DO1-7		TELEMETRY DATA	
DI1-8	Spare	DO1-8		TO WELL	
DI1-9	Spare	ANALOG IN		1	Well 2 start
DI1-10	Spare	AI1-1	Well 2 Flow	2	Pressure Setpoint
DI1-11	Spare	AI1-2	Well 2 Discharge Pressure	3	
DI1-12	Spare	AI1-3	Well 2 Level		
DI1-13	Spare	AI1-4	Chlorine Residual (Future)		
DI1-14	Spare	ANALOG OUT			
DI1-15	Spare	AI1-1	Well 2 Speed Reference		
DI1-16	Spare	AI1-2	CI Metering Reference		
RTD IN PLATINUM,		AI1-3			
RTD-1	Well 2 Motor RTD #1	AI1-4			
RTD-2	Well 2 Motor RTD #2				
RTD-3	Well 2 Motor RTD #3				
RTD-4	Well 2 Motor RTD #4				
RTD-5	Well 2 Motor RTD #5				
RTD-6	Well 2 Motor RTD #6				
RTD-7	Upper Motor Bearing RTD #7				
RTD-8	Lower Motor Bearing RTD #8				

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WELL 2 CONTROL DIAGRAM

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	
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DATE	JULY 2017
SCALE	AS SHOWN
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SHEET	E10
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FILE: DJA102-WELL2-E10-CD
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ELECTRICAL CONSTRUCTION MATERIAL NOTES

ABOVE GRADE - HOT DIPPED GALVANIZED RIGID STEEL CONDUIT TO BE USED FOR ALL EXTERIOR AND INTERIOR LOCATIONS ABOVE GRADE OR ELSEWHERE SHOWN ON PLANS. ALL RIGID CONDUIT AND FITTINGS TO BE THREADED. USE OF SET SCREW OR COMPRESSION TYPE CONNECTOR IS PROHIBITED. MEYERS HUBS TO BE USED ON ALL EXTERIOR PANEL CONNECTIONS.

BELOW GRADE - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 40 TO BE USED FOR ALL UNDERGROUND LOCATIONS AND BELOW VAPOR BARRIER OF SLAB. NO CONDUITS SHALL BE INSTALLED TO REDUCE THE STRUCTURAL INTEGRITY OF FOOTINGS.

CHEMICAL BUILDINGS AND CORROSIVE ATMOSPHERES - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 80 TO BE USED FOR ALL INTERIOR LOCATIONS ABOVE GRADE IN CHEMICAL BUILDINGS AND CORROSIVE ENVIRONMENTS.

THROUGH CONCRETE SLABS AND EXTERIOR CORROSIVE ATMOSPHERES - PVC COATED GALVANIZED RIGID STEEL CONDUIT MINIMUM 40 MIL FACTORY COATING TO BE USED FOR ALL EXPOSED CONDUITS THROUGH CONCRETE SLABS (MINIMUM 12'' ABOVE AND BELOW SLAB) AND ALL EXTERIOR LOCATION CORROSIVE ATMOSPHERES. USE MANUFACTURERS' SPECIFIED TOOLS AND PROCEDURES FOR INSTALLATION.

MOTORS AND SENSOR CONNECTIONS - LIQUID TIGHT FLEXIBLE METAL CONDUIT (UV RESISTANT) TO ONLY BE USED ON CONNECTIONS TO MOTORS AND SENSORS OR TO ISOLATE VIBRATION. MAXIMUM LENGTH TO BE 30''.

JUNCTION BOXES - MINIMUM SIZE PER NEC. EXPOSED LOCATION, 1 AND 2 GANG TO BE CAST IRON DEVICE BOXES TYPE FS/FD SUITABLE FOR WET LOCATIONS. EXPOSED LOCATION EXTERIOR LARGER SIZES CONTINUOUS HINGE TYPE 4, CORROSIVE LOCATIONS CONTINUOUS HINGE TYPE 4X STAINLESS STEEL.

GROUND CONNECTIONS - GROUND CONNECTIONS TO BE EXOTHERMIC CADWELD (ALL 600 AMP OR LARGER SERVICE) OR BURNDY HYDRAULIC COMPRESSION CONNECTORS. GROUND BUS CONNECTIONS TO BE CRIMP LUG TYPE WITH BOLTED CONNECTION TO GROUND BUS.

480 VOLT AND BELOW POWER WIRING TO BE THWN-2 600 VOLT, ALL POWER CONNECTIONS TO BE TREATED WITH ANTIOXIDANT COMPOUND. ALL VFD MOTOR CABLE TO BE SHIELDED, INVERTER DUTY.

CONTACT EPS TO SCHEDULE AN ELECTRICAL PRECONSTRUCTION MEETING PRIOR TO COMMENCING CONSTRUCTION

SYMBOL LEGEND:

- = CONDUIT, UNDERGROUND
- = CONDUIT, ABOVE GROUND
- (AC) = AIR COMPRESSOR
- (FS) = FLOAT SWITCH
- (LS) = LEVEL SWITCH
- (SV) = SOLENOID VALVE
- (FCV) = FLOW CONTROL VALVE
- (FIT) = FLOW INDICATING TRANSMITTER
- (HPS) = HIGH PRESSURE SWITCH
- (LLS) = LOW LEVEL SWITCH
- (LIT) = LEVEL INDICATING TRANSMITTER
- (PIT) = PRESSURE INDICATING TRANSMITTER
- (WLC) = WARRICK LEVEL CONTROL
- = GFI RECEPTACLE
- S = SWITCH, S.P.S.T
- = MOTOR OR PUMP
- = POLE LIGHT
- [2] = INDICATES CONDUIT AND CONDUCTOR SCHEDULE NUMBER
- (X-XXX) = INDICATES LIGHT FIXTURE NUMBER
- (E) = EXISTING
- (F) = FUTURE
- (N) = NEW

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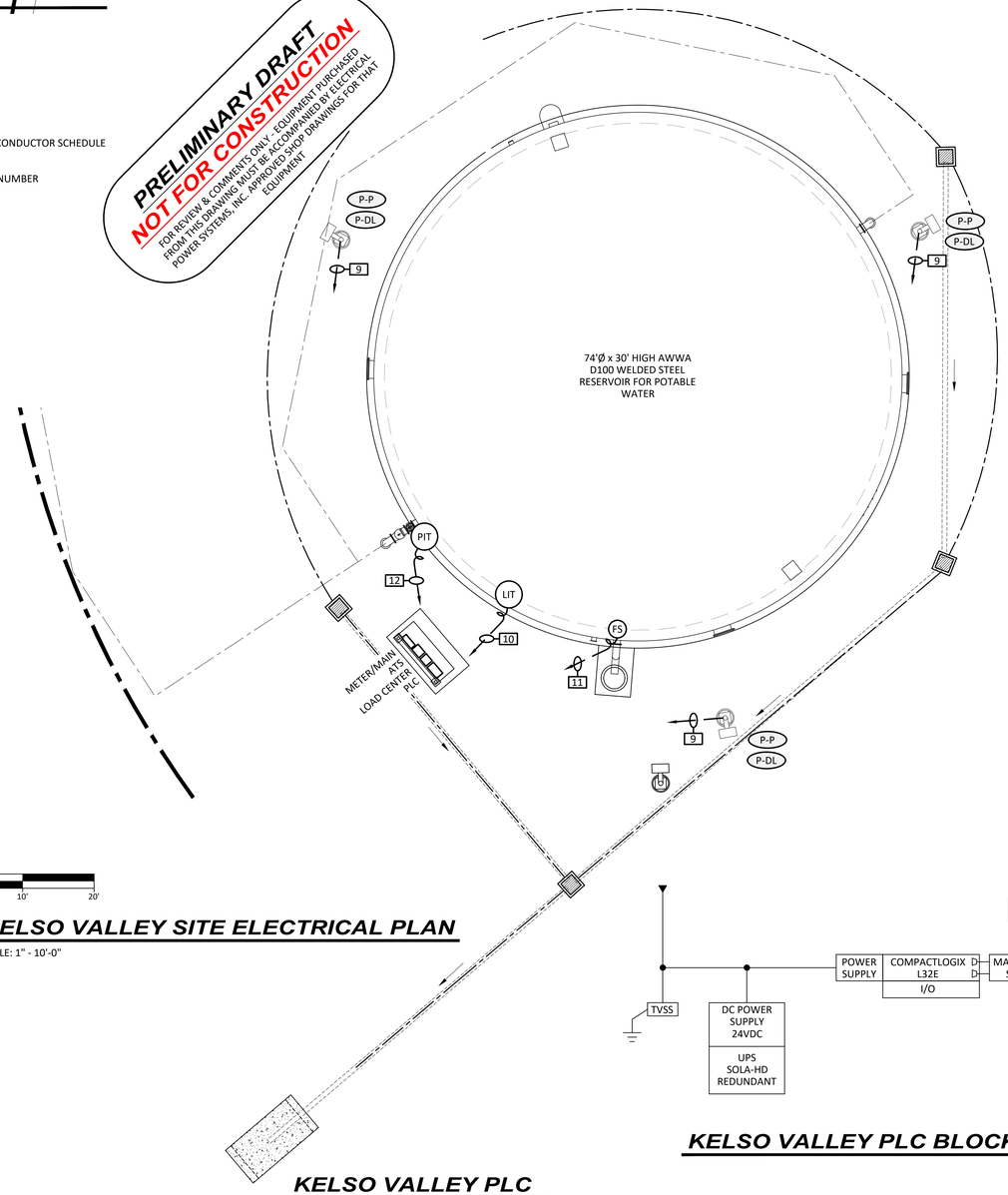
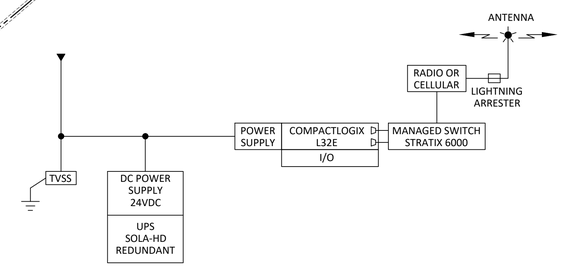


KELSO VALLEY SITE ELECTRICAL PLAN

SCALE: 1" - 10'-0"



KELSO VALLEY PLC BLOCK DIAGRAM

KELSO VALLEY CABLE AND CONDUIT SCHEDULE

No.	QTY	SIZE	NO. WIRES	WIRE SIZE	GND	FUNCTION	FROM	TO
1	1	Per	PGE			PGE Secondary	PGE Xfmr	Meter/Main
2	1	1"	3	#8	#8	Load Panel Panel	Service Rated Main/ATS	Load Panel
3	1	1"	3	#8	#8	E-Generator Power	E-Generator	Service Rated Main/ATS
4	1	3/4"	4	#12	#12	E-Generator Auxiliaries	Service Rated Main/ATS	E-Generator
5	1	3/4"	4	#12	#12	E-Generator Control	Service Rated Main/ATS	E-Generator
6	1	3/4"	8	#14	#14	E-Power Status	Service Rated Main/ATS	PLC
7	2	1 1/2"	6	#18 TSP		Control Conduit	PLC	PLC Main
8								
9	1	3/4"	2	#10	#10	Outside Flood Lighting	LP	Outside Flood Lighting
10	1	3/4"	1	#18 TSP		Level Transmitter	PLC	LIT
11	1	3/4"	2	#14	#14	Float Switch	PLC	Float switch
12	1	3/4"	1	#18 TSP		Pressure Transmitter	PLC	Pressure Transmitter
13								
14								
15								
16								

KELSO VALLEY PLC

ANALOG IN		DIGITAL IN 120 VAC	
AI1-1	Tank Level Transmitter, LIT	DI1-1	Motorized Valve, Open LS
AI1-2	Tank Fill Pressure Transmitter, PIT	DI1-2	Motorized Valve, Closed LS
AI1-3	Motorized Valve, Position	DI1-3	
AI1-4	Spare	DI1-4	
AI1-5	Spare	DI1-5	
AI1-6	Spare	DI1-6	
AI1-7	Spare	DI1-7	
AI1-8	Spare	DI1-8	
ANALOG OUT			
AO1-1	Motorized Valve, Reference		
AO1-2	Spare		
AO1-3	Spare		
AO1-4	Spare		
DIGITAL OUT 120 VAC			
DO1-1	Motorized Valve,CR		
DO1-2	Spare		
DO1-3	Spare		
DO1-4	Spare		
DO1-5	Spare		
DO1-6	Spare		
DO1-7	Spare		
DO1-8	Spare		

FIXTURE SCHEDULE:

I = INTERIOR FIXTURE E = EXTERIOR FIXTURE P = POLE MOUNTED FIXTURES/POLES

FIXTURE DESIGN	DESCRIPTION	LAMP # & TYPE	FIXTURE WATTS	FIXTURE MOUNTING	MANUFACTURER
J	2'x3'' LENSED STRIP	LED			METALUX SNLED LD (WATTS) LC UNV L850 CD1
I-LO	8'X3''LENSED STRIP	LED	50.1	SURF	METALUX 8TSNLED LD4 90SL LC UNV L850 LB-ERMS360 CD2
I-SP	SWITCHPAK			ON JBOX	EATON SP20-MBV
E-A	LED WALL PACK	LED	58	WALL	LUMARK XTOR6B W (APC/MOTION SENSOR OPTION)
E-X1	EMERGENCY HEAD	LED	2	UNV	BARRON MLED1 (1 LAMP) OR MLED2 (2 LAMP)
P-DL	FLOOD LIGHT	LED	256	POLE	LUMARK NFFLD-L B100 D UNV 66 S CB OA/RA1016 VSHW/NFFLD
P-P	POLE FOR AREA ROADWAY LUMINAIRE	N/A	N/A	BASE	LUMARK SSS 4 M 15 S F (FOR P-DL SLIPFITTER)

REDUCED DRAWINGS ARE NOT TO SCALE

REV.	DATE	DESCRIPTION	BY
1			
2			
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6			
7			

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PORTERVILLE, CALIFORNIA 93257
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FAX 559 782-7675

KELSO VALLEY SITE ELECTRICAL PLAN

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN
CHECKED
DATE JULY 2017
SCALE AS SHOWN
FILE
JOB NO.
SHEET E11
OF SHEETS

JOE PREVENDAR P.E. CA EE 16581 joe@epsfresno.com
GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: DJA17102 DATE: JUN 2017
FILE: DJA102-KV-E11-SITE
PLOT: 6/29/2017 3:50 PM / 1:1
DSGN: LKB DRWN: CRT

EPS IS RESPONSIBLE FOR ELECTRICAL SYSTEMS DESIGN ONLY. EPS IS NOT RESPONSIBLE FOR ELECTRICAL SAFETY WORK PROCEDURES AND/OR USE OF REQUIRED PERSONAL PROTECTIVE EQUIPMENT. SEE NFPA 70E "STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE" AND OSHA 29 CFR. CONTRACTOR MUST READ SPECIFICATIONS AND INSTALL MATERIAL AS PER SPECIFICATIONS AND/OR PLANS OR AS PER E P S. APPROVAL PLANS AND SPECIFICATIONS ONLY APPLY TO THE PROJECT FOR WHICH THEY WERE CREATED.

ELECTRICAL POWER SYSTEMS INC.
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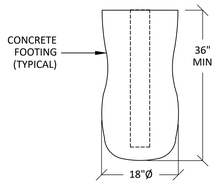
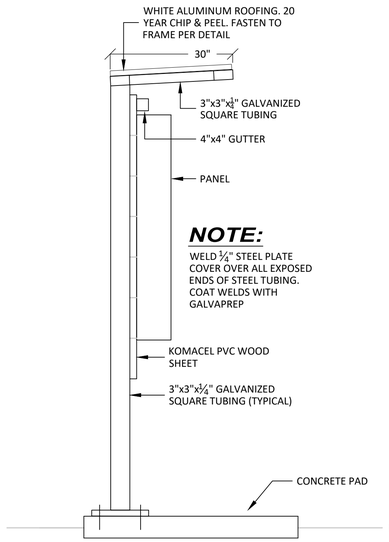
T:\files\DJA\102 - Weldon Well 1 and 2\DWGS\4_Kelso Valley dwgs\DJA102-KV-E11-Site.dwg, Kelso Valley, 6/29/2017 3:50:17 PM, Connie, 1:1

811 Know what's below. Call before you dig.

DIG ALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF CALIFORNIA

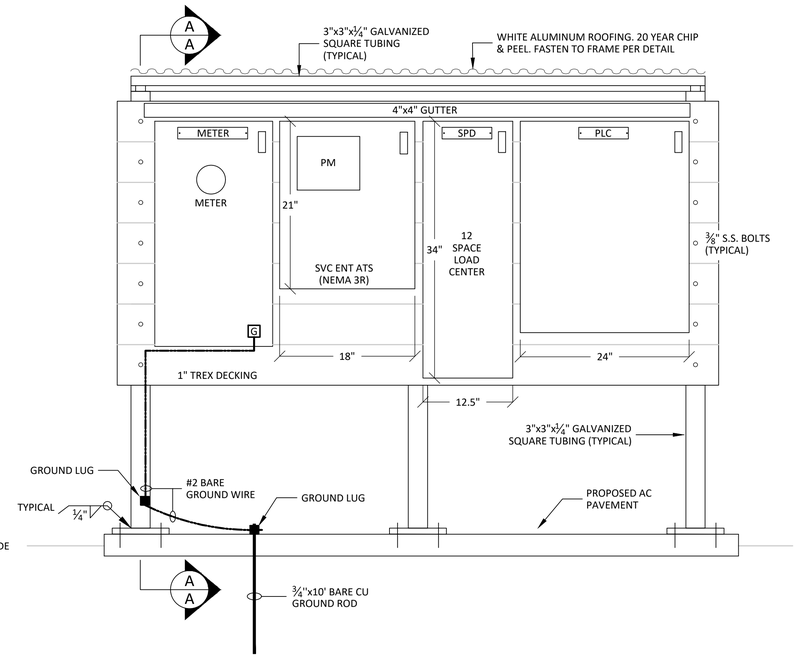


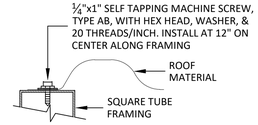
SECTION A-A
NOT TO SCALE



NOTE:

WELD ¼" STEEL PLATE COVER OVER ALL EXPOSED ENDS OF STEEL TUBING. COAT WELDS WITH GALVAPREP





PANEL TO STRUCTURE CONNECTION

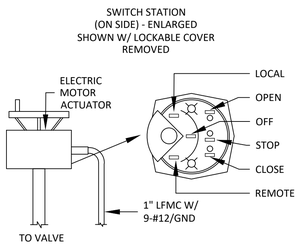
OUTDOOR PANEL NOTES:

1) ALL PANELS EXPOSED TO WEATHER SHALL BE MINIMUM NEMA 3R RATED.
2) PANEL FINISH TO MEET UL 1332 CODE FOR COATING OF STEEL ENCLOSURES FOR OUTDOOR EQUIPMENT AND ASTM B117 FOR CORROSION RESISTANCE.
3) INSTALLATION TO INCLUDE AN OVERHANGING TOP ALUMINUM SUNSHIELD FOR ANY PANELS WITH ELECTRONIC COMPONENTS.
4) ALL VENTS AND OPENINGS TO INCLUDE RODENT AND INSECT SCREENING.
5) ENCLOSURES TO INCLUDE DUST GASKETING.
6) ALL CB, PANELS, VFD, SSRV COMPARTMENTS TO BE LABELED WITH LAMICOID TAGS WITH 2-S.S. SCREWS.
7) BACKBOARD TO HAVE SPACE FOR FUTURE RELOCATED PLC AND FIBER BOX INSTALLATION.

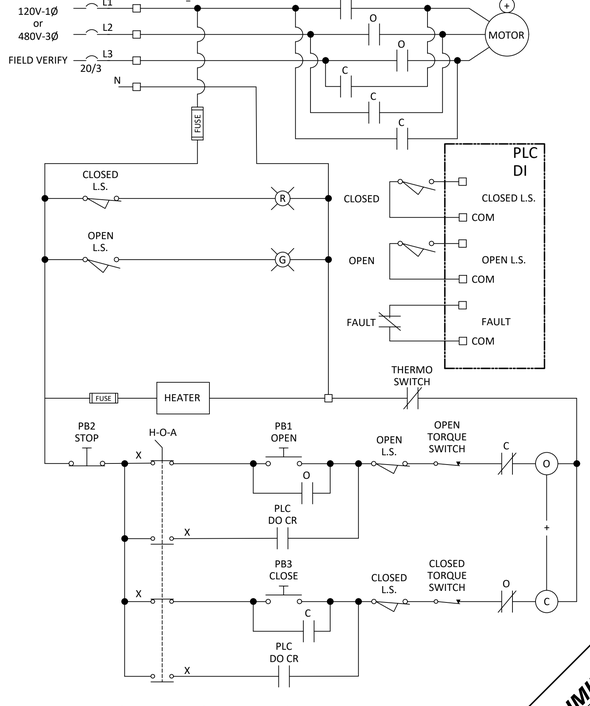
KELSO VALLEY BACKBOARD WITH SUN SHADE

NEMA 3R

VIEWS SHOWN WITH OUTER DOORS REMOVED



ELECTRIC ACTUATED VALVE WITH POSITION LIMIT SWITCHES AND OVER-RIDE



VALVE ACTUATOR DIAGRAM MOV

NOTES:

1) SCHEMATIC FOR OPEN/CLOSED ACTUATOR.
2) FOR MODULATING VALVE ADD 4-20mA POSITION SIGNAL AND 4-20mA POSITION FEEDBACK.

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION
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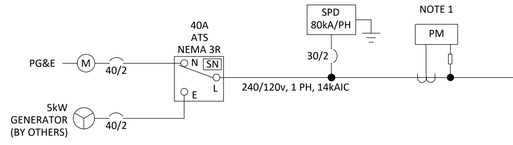

KELSO VALLEY PANEL SCHEDULE

PANEL LP
40 AMP 240/120V 1PH

CKT	DESCRIPTION / LOCATION	BRKR	PLS	Aph	Bph
1	MOV	20	1	2.00	
3	E-Gen Battery Charger	20	1		2.00
5	Spare	20	1		
7		20	1		
9		20	1		
11	PLC	20	1		1.00
2	E-Gen Heater	20	1	2.00	
4	Radio	20	1		1.00
6	Spare	20	1		
8		20	1		
10		20	1		
12		20	1		
PANEL CONNECTED LOAD / PHASE				4.0	4.0
PANEL CONNECTED LOAD		**8.0 AMP**		**1.0**	**KW**

KELSO VALLEY SINGLE LINE DIAGRAM

NOTES:

1) POWER MONITOR TO BE SCHNEIDER PM5500, EATON XPERT METER 2280, ELECTRO INDUSTRIES SHARK 200V4 OR EQUAL WITH ETHERNET.

REDUCED DRAWINGS ARE NOT TO SCALE

REVISION	BY

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3220 REGABLE DRIVE, SUITE 3 BAKERSFIELD, CALIFORNIA 93305 661 393-4796 P-FAX 661 393-4799

KELSO VALLEY SINGLE LINE

WELDON REGIONAL WATER SYSTEM

WELDON REGIONAL WATER PROJECT
KERN COUNTY, CALIFORNIA

DRAWN	
CHECKED	
DATE	JULY 2017
SCALE	AS SHOWN
FILE	
JOB NO.	
SHEET	E12
OF	SHEETS

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GARY OLSEN P.E. CA EE 8283 gary@epsfresno.com

JOB: DJA17102 | DATE: JUN 2017
FILE: DJA102-KV-E12-SL
PLOT: 6/29/2017 3:51 PM / 1:1
DSGN: LKB | DRWN: CRT

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