Veterans Memorial Park - Irrigation: Re-Bid

Construction Documents Hollister, California

GENERAL NOTES

DESIGN INTENT These Drawings and accompanying technical specifications represent the general design intent to be implemented on the site. Contractor shall be responsible for contacting the Engineer for any additional clarification or details necessary to accommodate site conditions.

CONTRACTOR COORDINATION The Contractor shall coordinate and otherwise integrate his work with that of others in an efficient, craftsmanlike and timely manner so as to provide the County with a well-constructed, easily maintainable project. Each contractor shall notify others at least two working days in advance of covering, completing or exposing work to be installed by others.

CONTRACTORS' JOB SITE CONDITIONS The Contractor agrees to assume sole and complete responsibility for site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the County and the Engineer 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 County or the Engineer.

COMPOSITE BASE SHEET The proposed improvements shown on these Drawings are superimposed on a base sheet. This base sheet is compiled from an aerial topographic survey, as made available by the Owner. The Architect/Engineer shall not be held liable for changes, inaccuracies, omissions or other errors on these documents. The composite base sheet is provided only as an aid, and the Contractor shall be responsible for reviewing these documents and incorporating/integrating all construction as required to accommodate

UTILITIES A reasonable effort has been made to locate and delineate all known underground utilities. The Contractor is cautioned that only excavation will reveal the types, extent, sizes, location and depths of such underground utilities. However, the Architect/Engineer can assume no responsibility for the completeness or accuracy of delineation of such underground utilities, nor for the existence of other buried objects or utilities which are not shown on these Drawings. For areas under public ownership, the Contractor is responsible for contacting utility companies prior to commencing construction, and requesting a visual verification of the locations of their underground utilities. The utility companies are members of the Underground Service Alert (USA) one-call program. Notification shall be a minimum of (2) working days in advance of performing excavation work by contacting USA North at 811 / 1-800-227-2600 / www.usanorth.org for Northern California, and DigAlert 811 / www.digalert.org for Southern California. For areas under private ownership and campuses not members of USA, the Contractor is responsible for engaging the services of a private utility locator for a visual verification of the locations of underground utilities. Excavation is defined as being 6 or more inches in depth below the

codes / standards

GENERAL: Bring conflicts between Codes, Referenced Standards, Drawings, and Specifications to the attention of the Construction Manager in writing, for resolution before taking any action. Where differences exist between codes and standards, the one affording the greatest protection shall apply. If the year of adoption is omitted from the Code or Standard designation, it shall mean the latest revision in effect on the Bid date.

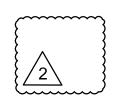
PROJECT SHALL COMPLY WITH ALL LOCAL AND STATE APPLICABLE CODES.

ABBREVIATIONS

AB	Aggregate Base	LB	Pound
AC	Asphalt Concrete	LF	Lineal Feet
AD	Area Drain	LOW	Limit of Work
ALT	Alternate	LP	Low Point
APPROX	Approximate	MAX	Maximum
ARCH	Architectural	MECH	Mechanical
BLDG	Building	MED	Medium
BOC	Bottom of Curb	MFR	Manufacturer
BOW	Bottom of Wall	MH	Manhole
BS	Bottom of Step	MIN	Minimum
BOT	Bottom	MM	Millimeter
СВ	Catch Basin	MTL	Metal
CBC	CA Building Code	(N)	New
CI	Cast Iron	NIC	Not In Contract
	Centerline	NO	Number
CL, &			
CLR	Clear	NOM	Nominal
CM	Centimeter	NTS	Not To Scale
CMU	Concrete Masonry Unit	OC	On Center
CONC	Concrete	OD	Outside Diameter
CONST	Construction	OPP	Opposite
CONT	Continuous	PA	Plant Area
CO	Cleanout	PB	Pull Box
COORD	Coordinate	PE	Polyethylene
CY		PERF	Perforated
	Cubic Yard		
DBL	Double	POB	Point of Beginning
DEMO	Demolition	POC	Point of Connection
DET	Detail	POS	Point on Slope
DG	Decomposed Granite	PNT	Point
DIA, Ø	Diameter	PREFAB	Prefabricated
DN	Down	PSI	Pounds per Square Inch
DWG	Drawing	PT	Pressure Treated
(E), EX	Existing	PVC	Polyvinyl Chloride
EA	Each	R, RAD	Radius
EG		REBAR	Reinforcement Bar
	Existing Grade		
EJ	Expansion Joint	REF	Reference
EP	Edge of Paving	REQD	Required
ELEV	Elevation	RIM	Rim Elevation
ELEC	Electrical	RND	Round
EQ	Equal	RWL	Rain Water Leader
EQUIP	Equipment	S4S	Surface Four Sides
EXP	Exposed	SCH	Schedule
EXT	Exterior	SD	Storm Drain
FFE	Finished Floor Elevation	SF	Square Foot
FG	Finished Grade	SIM	Similar
FL	Flow Line	SPECS	Specifications
FOB	Face of Building	SQ	Square
FOC	Face of Curb	SS	Sanitary Sewer
FPS	Feet Per Second	STL	Steel
FS	Finish Surface	SY	Square Yard
FSF	Finish Surface Field	SYN	Synthetic
FT	Foot	TC	Top of Curb
GA	Gauge	THK	Thick
GALV	Galvanized	TS	Top of Step
			· · · · · · · · · · · · · · · · · · ·
GB	Grade Break	TYP	Typical
GI	Galvanized Iron	TW	Top of Wall
GPH	Gallons Per Hour	U/G	Underground
GPM	Gallons Per Minute	UON	Unless Otherwise Noted
HDG	Hot Dipped Galvanized	VERT	Vertical
HDR	Header	VIF	Verify in Field
HORIZ	Horizontal	W	Water
HP	High Point	WP	Weaked Plane Joint
HSS	Hollow Structural Steel	WV	Water Valve
ICV		WWM	Welded Wire Mesh
	Irrigation Control Valve	W/	With
ID	Inside Diameter		
INT	Interior	WD	Wood

symbols

Invert



INV

Revision Callout



(X/L-X.X)

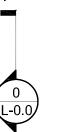


Area Plan Callout

Detail Reference



Elevation Callout



Section Callout

SHEET INDEX

SHEET NO:	CONTENTS:
L-1.1	Cover Sheet
L-2.1	Existing Conditions Plan
L-3.1	Construction Plan
L-4.1	Construction Details (Alternate 2)
P-0.1	Plumbing Legend, Notes, and Site Plan
P-0.2	Plumbing Partial Site Plan and Details
E1.0	Electrical Symbols, Abbreviations, and Specifications (Alternate 1)
E2.0	Electrical Overall Site Plan (Alternate 1)

E3.0

(/)	LANDSCAPE ARCHITECTURE TO STER
	Signature 5-31-2017 Renewal Date Date Date
	OF CALL

LANDSCAPE

ARCHITECTS

425 Pacific Street, Suite 201

Monterey, California 93940

831.646.1383 | www.bfsla.com

CONSULTANTS

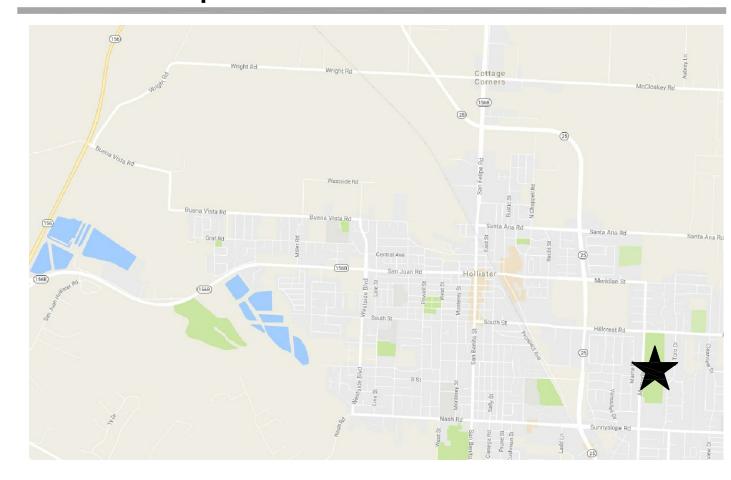
Revised Scope of Work

These plans represent a revised scope of work and bidding approach from the plans bid December of 2016. The revised scope of work is as follows:

Electrical Partial Site Plan, Single Line Diagram, and Details (Alternate 1)

- 1. The base bid has been reduced by including three alternates as shown on the drawings and identified on this Cover Page. See the bid proposal for discussion on award procedures.
- 2. The only physical changes to the plans are as follows: revised fence layout as shown on the "L" drawings, and a reduction in bladder tank size to 1300 gallons and the addition of a second 1300 gal tank as Alternate 3 shown on the "P" drawing.
- 3. No revisions have been made to the Electrical Drawings and therefore have retained their original drawing date.

Location Map



project directory

LANDSCAPE BFS Landscape Architects 425 Pacific Street, Suite 201 Monterey, CA 93940 (831) 646-1383

MECHANICAL Axiom Engineers 22 Lower Ragsdale Drive, suite A Monterey, CA 93940 831-649-8000

ELECTRICAL Aurum Consulting Engineers 60 Garden Court, suite 210 Monterey, CA 93940

R E V IS IO N S

Date Description

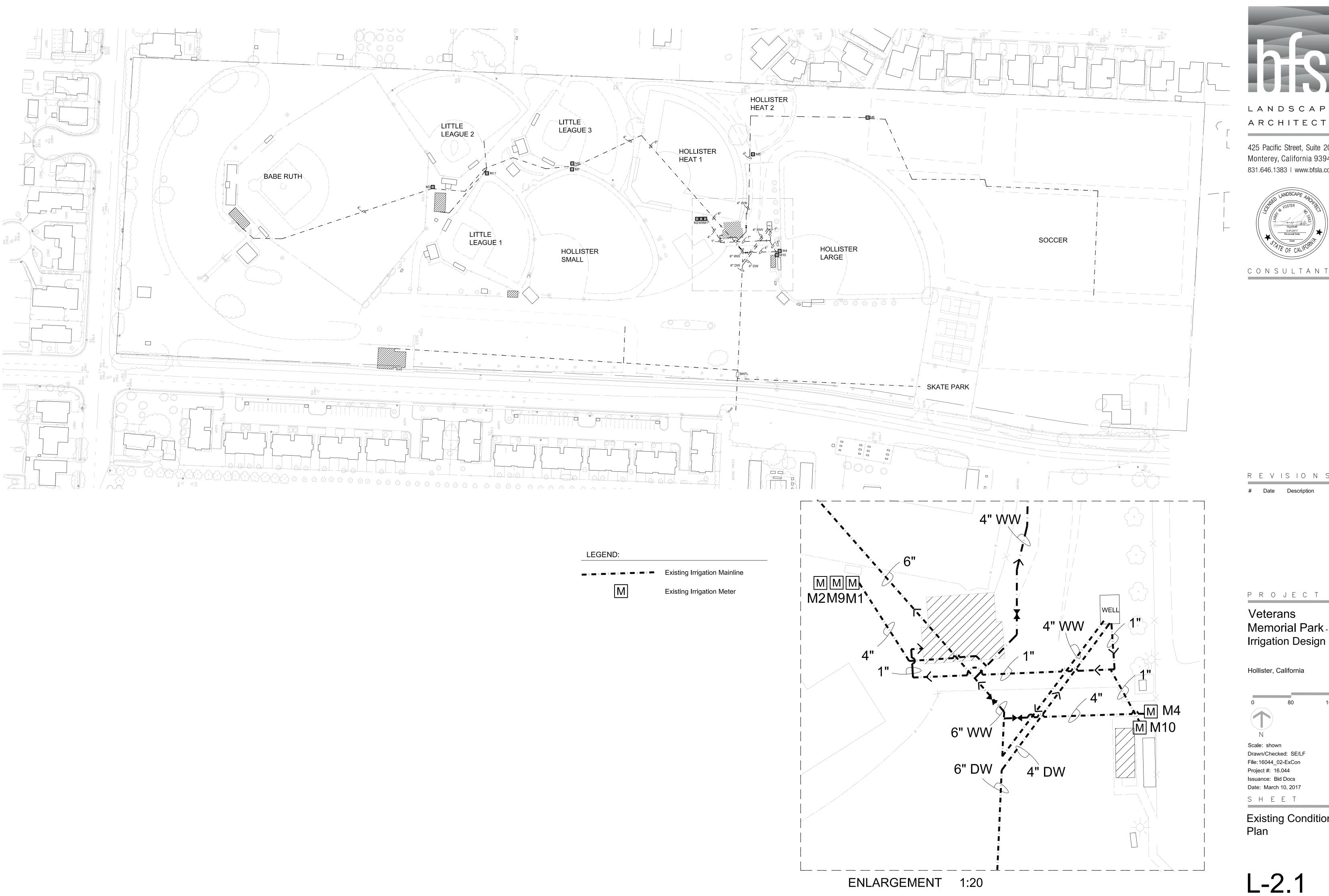
PROJECT

Veterans Memorial Park **Irrigation Design**

Hollister, California

Scale: shown Drawn/Checked: SE/LF File:Cover Project #: 16.044 Issuance: Bid Docs Date: March 10, 2017 SHEET

Cover Sheet





LANDSCAPE ARCHITECTS

425 Pacific Street, Suite 201 Monterey, California 93940 831.646.1383 | www.bfsla.com

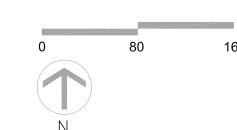


CONSULTANTS

R E V IS IO N S

Date Description

Veterans Memorial Park Irrigation Design

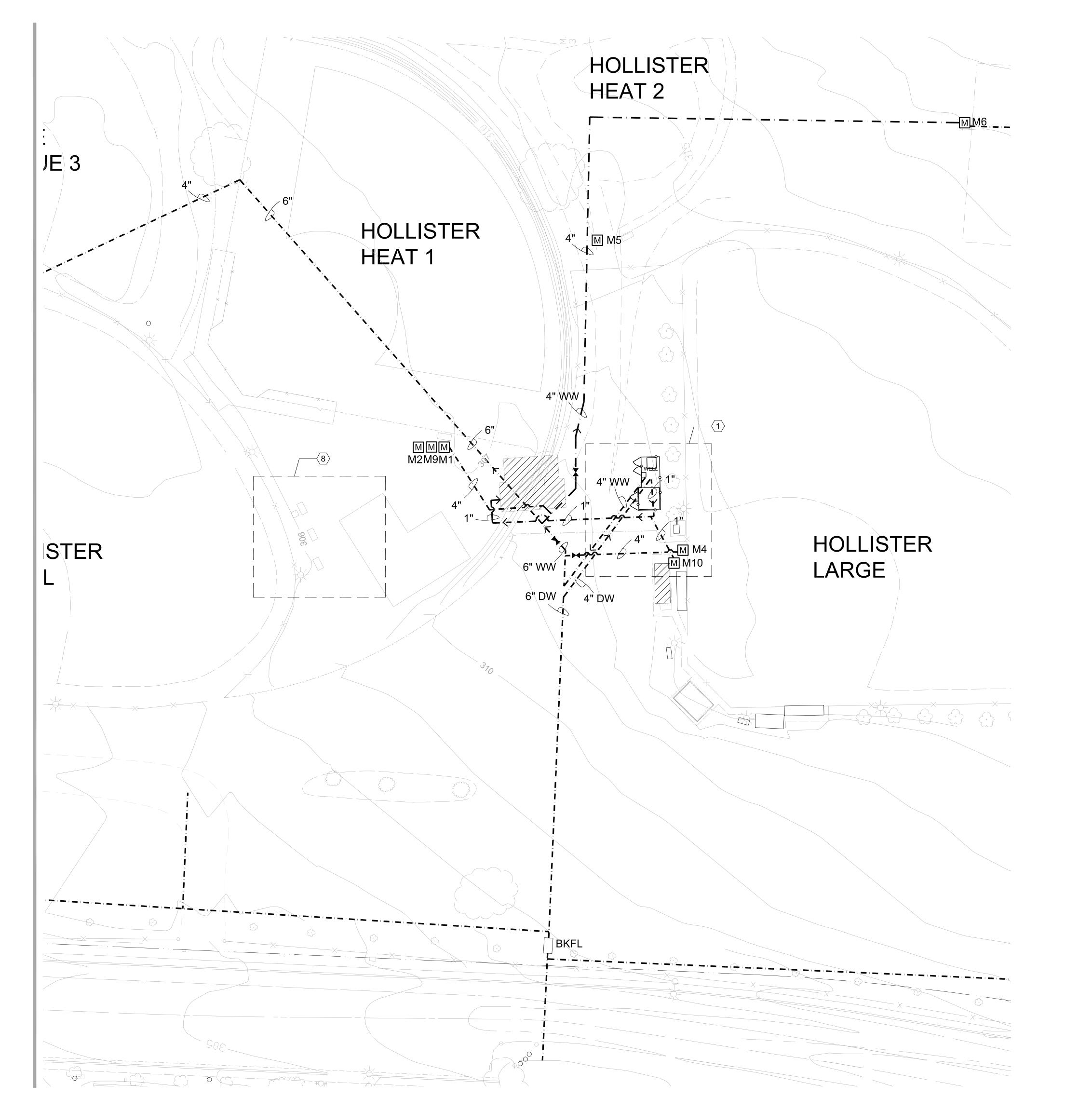


Drawn/Checked: SE/LF File:16044_02-ExCon Project #: 16.044 Issuance: Bid Docs

Date: March 10, 2017 S H E E T

Existing Conditions

L-2.1





LANDSCAPE ARCHITECTS

425 Pacific Street, Suite 201 Monterey, California 93940 831.646.1383 | www.bfsla.com



CONSULTANTS

REFERENCE NOTES

- Enlargement area: See below.
- Demolish (E) fencing and gates. Install new chainlink fence (Alternate 2): See 1/L-4.1
- New 12' wide gate: See 2/L-4.1 (Alternate 2)
- Concrete pad at new tank: See Plumbing sheets. Pad shall be 6" deep, with #3 rebar 18" OC, both ways. Jointing shall be 5' OC, each way. Joints shall be sawcut.
- Install 36"x36"x6" deep concrete pad under new discharch pipe.
- New plumbing work: See Plumbing sheets.
- New tank(s): See Plumbing sheets for more information, and Alternate 3.
- See Electrical Drawings for work in this area. (Alternate 1)
- $\langle 9 \rangle$ Existing concrete pad to remain.

GENERAL NOTES

1. Fence and gate layout to be staked by contractor and reviewed in field by Owner, Architect, or

13'-6"

M10

- 2. See also Plumbing and Electrical Drawings for additional information.3. New Electrical work shall be Alternate 1.
- 4. New Fencing and Gates shall be Alternate 2.
- 5. 2nd expansion tank shall be Alternate 3.

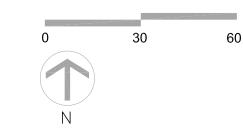
ENLARGEMENT 1:10

R E V IS IO N S

P R O J E C T

Veterans Memorial Park Irrigation Design

Hollister, California



Drawn/Checked: SE/LF File: 16044_04-Constr Project #: 16.044 Issuance: Bid Docs Date: March 10, 2017

SHEET

Construction Plan

L-3.1



LANDSCAPE

425 Pacific Street, Suite 201 Monterey, California 93940 831.646.1383 | www.bfsla.com

ARCHITECTS



Chainlink Fence and Gate Schedule (Alternate 2)

NTS

Chainlink Fence and Gate Schedule:

galvanized zinc exterior and interior coating.

steel wire. Install on outside of fence.

Sizing: (outside diameter)

Fence terminal posts: 2.375"
Top and bottom rails: 1.66"

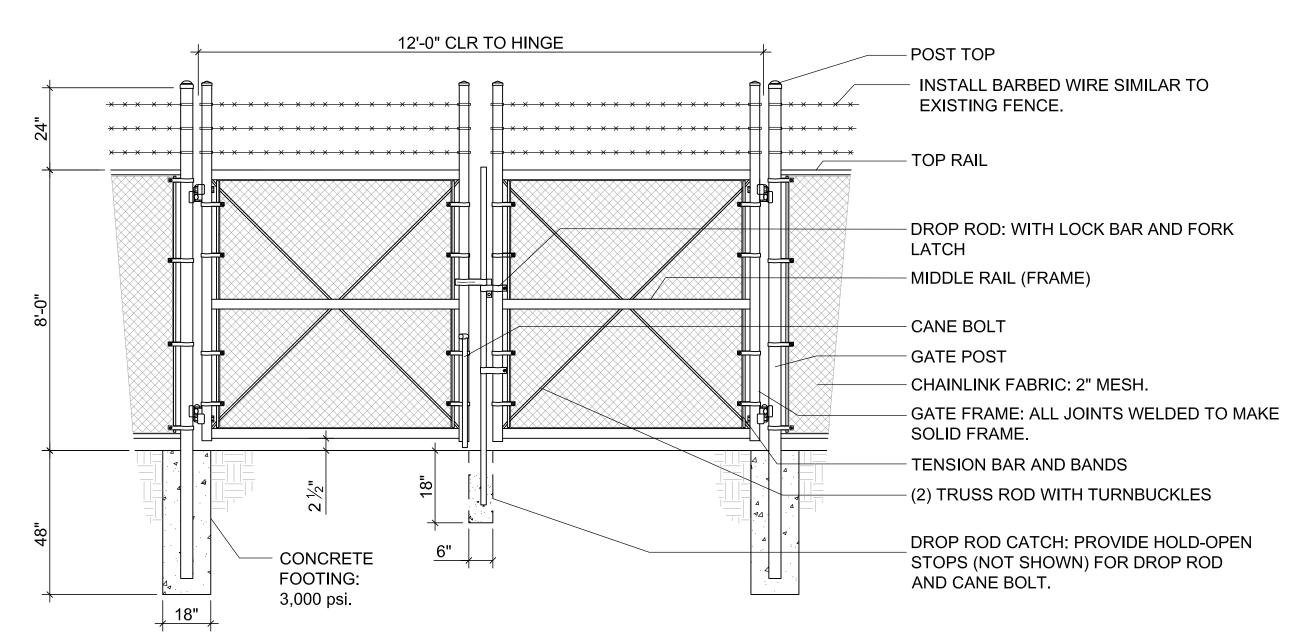
Fence line posts: 1.9"

Gate posts: 4"
Gate frames: 1.9"

Fabric: All fabric shall be 9 gauge, 2" spaced, woven galvanized chainlink

Pipe: All pipe shall be type 1 schedule 40 steel pipe, with hot dipped

Fittings: All fittings shall be zinc coated or hot dipped galvanized steel.

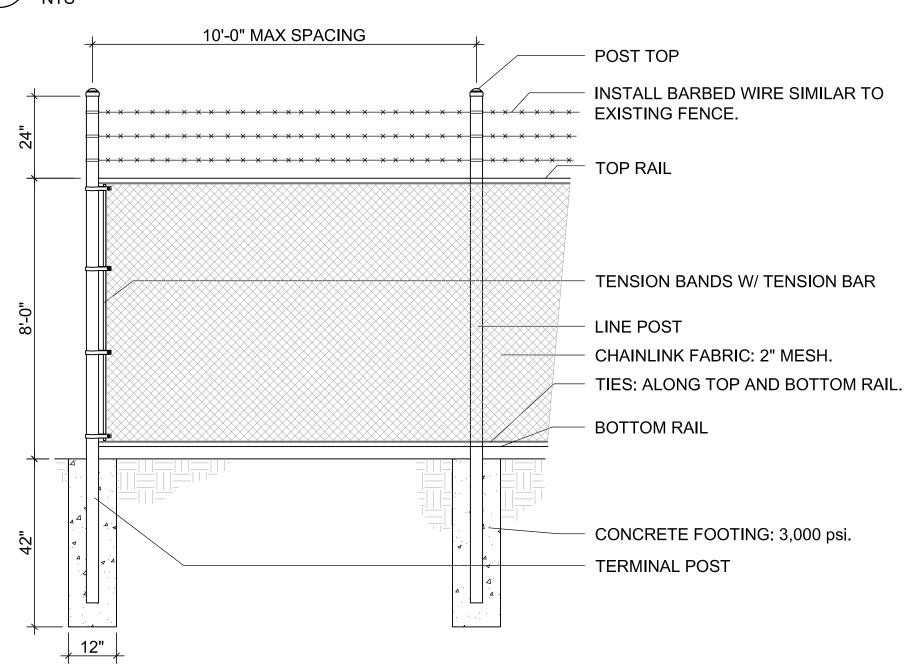


R E V I S I O N S

Date Description

2 Chainlink Double Gate (Alternate 2)

NTS



Chainlink Fence (Alternate 2)

NTS

Veterans
Memorial ParkIrrigation Design

Hollister, California

Scale: shown
Drawn/Checked: SHE/ILF
File: 16044_04-ConDetails
Project #: 16.044
Issuance: Bid Docs
Date: March 10, 2017

S H E E T

Construction Details

L-4.1

- 2. <u>COORDINATION</u>: COORDINATE WITH GENERAL CONTRACTOR AND ALL OTHER TRADES.
- 3. <u>CODES:</u> THIS WORK SHALL CONFORM TO ALL LOCAL CODES, CALIFORNIA BUILDING CODE, CALIFORNIA
- MECHANICAL CODE AND CALIFORNIA PLUMBING CODE.
- 4. <u>FEES</u>: CONTRACTOR SHALL PAY ALL FEES IN CONNECTION WITH THIS WORK. CONNECTION CHARGES BY OWNER.
- 5. <u>Drawings</u>: Drawings are schematic. All equipment locations shall be verified in the field and approved by architect.
- 6. MAINTENANCE: ALL EQUIPMENT SHALL BE ACCESSIBLE FOR MAINTENANCE.
- 7. <u>GUARANTEE</u>: ALL WORKMANSHIP, EQUIPMENT AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR AFTER DATE OF ACCEPTANCE.
- 8. <u>SUBMITTALS</u>: WITHIN 15 DAYS AFTER SIGNING A CONTRACT, PROVIDE SUBMITTALS ON ALL PLUMBING EQUIPMENT.
- 9. TESTING, ADJUSTING, AND CLEANING: TEST ALL PIPING, VALVES, ETC. AS LISTED BELOW AND PROVIDE THE LANDSCAPE ARCHITECT WITH CERTIFIED COPIES OF TEST RESULTS. THE INSPECTION AUTHORITY HAVING JURISDICTION AND THE SUPERVISING ARCHITECT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO PERFORMANCE OF ALL TESTS SO THAT THEY MAY BE WITNESSED.
- ALL WATER PIPING SHALL BE TESTED TO 150 PSIG WITH POTABLE WATER AND HELD FOR 2 HOURS WITHOUT DROP IN PRESSURE BEFORE IT IS COVERED AND CONCEALED. EQUIPMENT AND PERSONNEL SHALL BE PROTECTED FROM THIS TEST PRESSURE.
- UPON COMPLETION OF THE WORK, CLEAN ALL EQUIPMENT AND PIPING INSTALLED UNDER THIS SECTION AND THOROUGHLY WASH AND POLISH ALL PLUMBING FIXTURES, FITTINGS AND TRIM, REMOVING LABELS THEREFROM.
- 10. <u>VERIFICATION OF EXISTING CONDITIONS</u>: IT SHALL BE ONE OF THE RESPONSIBILITIES UNDER THIS SECTION TO EXAMINE THE SITE OF WORK AND, AFTER INVESTIGATION, TO DETERMINE THE CHARACTER OF THE MATERIALS TO BE ENCOUNTERED AND THE EXISTING CONDITIONS AFFECTING THE WORK.
- 11. <u>EXCAVATION AND BACKFILLING</u>: EXCAVATION SHALL BE UNCLASSIFIED AND SHALL INCLUDE THE REMOVAL OF ALL BURIED OBSTRUCTIONS WITHIN THE AREA TO BE EXCAVATED. TRENCH TO REQUIRED DEPTHS. TRENCH TO BE FREE OF WATER.
- TAMP BOTTOM OF TRENCH. EXCAVATE BELL HOLES SO PIPE SHALL REST FOR ENTIRE LENGTH ON SOLID GROUND. REMOVE ALL ROCKS AND TAMP AND COMPACT 1/2" TO 1-1/2" BROKEN STONE OR GRAVEL SAND ON BOTTOM OF TRENCH BEFORE LAYING PIPE. INSTALLED PIPING TO BE TESTED, INSPECTED AND APPROVED FOR BACKFILL MATERIAL. MATERIAL: IMPORTED SANDY SOIL IN LAYERS NOT EXCEEDING 8". MOISTEN AND MACHINE TAMP TO ORIGINAL CONDITION. BACKFILL SHALL BE COMPACTED TO A DENSITY OF 95% AS DETERMINED BY THE LABORATORY TEST PROCEDURE IN ASTM D1557.
- 12. <u>STERILIZATION:</u> BEFORE BEING PLACED IN SERVICE, ALL DOMESTIC COLD WATER DISTRIBUTION SYSTEMS SHALL BE STERILIZED IN ACCORDANCE WITH THE AWWA STANDARD SPECIFICATION, LATEST EDITION AND AMENDMENTS. AFTER STERILIZATION, THE SYSTEM SHALL BE FLUSHED WITH POTABLE WATER UNTIL THE STERILIZATION RESIDUE IS WITHIN THE TOLERABLE LIMITS FOR DOMESTIC WATER.

PIPING NOTES:

- REMOVE ALL ABANDONED PIPING, EQUIPMENT, AND FIXTURES INTERFERING WITH NEW WORK WHETHER NEW WORK IS ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR ELECTRICAL.
- 2. CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL CONNECTIONS TO THE UNITS, INCLUDING CIRCUIT PROTECTION, CONFORM TO UNIT LABELS AND MANUFACTURER'S DIRECTIONS. WHERE WIRE SIZES SHOWN ON DRAWING EXCEED MANUFACTURER'S RECOMMENDATIONS, THE DRAWINGS SHALL GOVERN. ALL WIRING SHALL BE PER THE NATIONAL ELECTRICAL CODE.
- 3. ALL CONTROL WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.
- 4. COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
- 5. LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.
- 6. PRIME AND PAINT ALL EXPOSED PIPING IN COLOR SELECTED BY OWNER.
- 7. ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.
- 8. ALL PIPING SHALL BE SCHEDULE 40 BLACK STEEL. FITTINGS FOR PIPING 2" AND SMALLER SHALL BE SCREWED CONNECTIONS; FITTINGS FOR PIPING 2-1/2" AND LARGER TO BE FLANGE CONNECTIONS.

PLUMBING LEGEND						
SYMBOL	ABBRV.	IDENTIFICATION	ABBRV.	IDENTIFICATION		
	- CW	COLD WATER (DOMESTIC)	COORD	COORDINATE		
	- HW	HOT WATER	DN	DOWN		
	- HWR	HOT WATER RETURN	DWGS	DRAWINGS		
- – – – -	- V	VENT	(E)	EXISTING		
— G —	- G	GAS (7"WC)	MIN	MINIMUM		
	S OR W	SOIL OR WASTE ABOVE GRADE	(N)	NEW		
— w — —	S OR W	SOIL OR WASTE BELOW GRADE	VTR	VENT THROUGH ROOF		
0	-	RISE UP	W/	WITH		
G	- ELL	ELBOW DOWN				
 2	- TEE	TEE DOWN				
E	-	CAP				
\	- CONT	CONTINUATION				
<u></u>	-	BALL VALVE				
	-	UNION				
	- WHA	WATER HAMMER ARRESTOR				
	НВ	HOSE BIBB				
Ф	- GCO/FCO	GRADE CLEAN-OUT/FLOOR CLEAN-OUT				
H	WCO	WALL CLEAN-OUT				
耳		THERMOMETER				
•	P.O.C.	POINT OF CONNECTION				

∕—AREA OF WORKÌ,

SEE P0.2



LANDSCAPE ARCHITECTS

425 Pacific Street, Suite 201 Monterey, California 93940 831.646.1383 | www.bfsla.com



CONSULTANTS

AXIOM ENGINEERS
LEE & ASSOCIATES
CONSULTING ENGINEERS

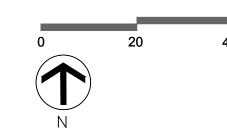
22 Lower Rogsdole Dr., Suite A
Monterey, California 93940-5788

Date Description # 3/10/16 Rebid

P R O J E C T

Veterans
Memorial Park
Irrigation Design

Hollister, California

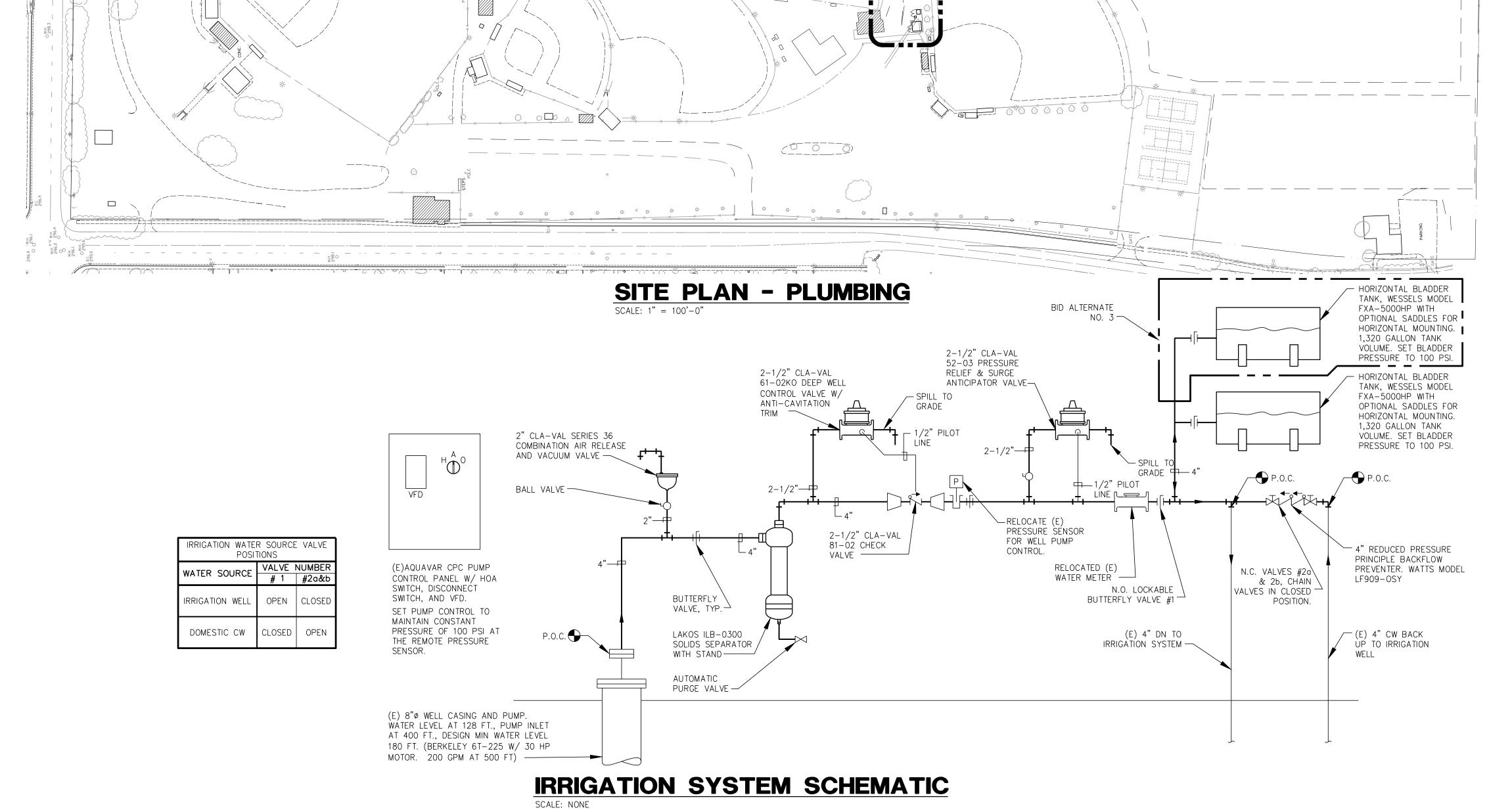


N
Scale: AS NOTED
Drawn/Checked: CAD/RSS

File:
Project #: 16.044
Issuance: BIDS
Date: March 10, 2017
S H E E T

LEGEND, NOTES AND SITE PLAN -PLUMBING

P-0.1



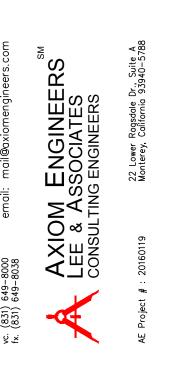


L A N D S C A P E A R C H I T E C T S

425 Pacific Street, Suite 201 Monterey, California 93940 831.646.1383 | www.bfsla.com



CONSULTANTS



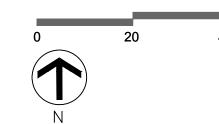
R E V I S I O N S

Date Description
3/10/16 Rebid

P R O J E C T

Veterans
Memorial Park
Irrigation Design

Hollister, California



Scale: 1/4" = 1'-0"

Drawn/Checked: CAD/RSS

File:

File:
Project #: 16.044
Issuance: BIDS
Date: March 10, 2017
S H E E T

PARTIAL SITE PLAN

AND DETAILS -PLUMBING

P-0.2

ELECTRICAL SPECIFICATIONS

SECTION 16010 - GENERAL ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.01 Description of Work:

A. Furnish and install all required in-place equipment, conduits, conductors, cables and any miscellaneous materials for the satisfactory interconnection and operation of all associated electrical systems.

1.02 Submittals:

A. Submit to the Engineer shop drawings, manufacturer's data and certificates for equipment, materials and finish, and pertinent details for each system specified. Information to be submitted includes manufacturer's descriptive literature of cataloged products, equipment, drawings, diagrams, performance and characteristic curves as applicable, test data and catalog cuts. Obtain written approval before

procurement, fabrication, or delivery of the items to the job site. B. Proposed substitutions of products will not be reviewed or approved prior to awarding of the Contract. C. Substitutions shall be proven to the Engineer to be equal or superior to the specified product. Engineer's decision is final. The Contractor shall pay all costs incurred by the Engineer in reviewing and processing any proposed substitutions whether or not a proposed substitution is accepted.

D. If a proposed substitution is rejected, the contractor shall furnish the specified product at no increase in

E. If a proposed substitution is accepted, the contractor shall be completely responsible for all dimensional changes, electrical changes, or changes to other work which are a result of the substitution. The accepted substitution shall be made at no additional cost to the owner or design consultants.

A. Codes: All electrical equipment and materials, including installation and testing, shall conform to the latest editions of the following applicable codes:

1. California Electrical Code (CEC).

1. Occupational Safety and Health Act (OSHA) standards. 3. All applicable local codes, rules and regulations.

4. Electrical Contractor shall posses a C-10 license and all other licenses as may be required. Licenses shall be in effect at start of this contract and be maintained throughout the duration of this contract. B. Variances: In instances where two or more codes are at variance, the most restrictive requirement shall

C. Standards: Equipment shall conform to applicable standards of American National Standards Institute (ANSI), Electronics Industries Association (EIA), Institute of Electrical and Electronics Engineers

(IEEE), and National Electrical Manufacturers Association (NEMA). D. Underwriter Laboratories (UL) listing is required for all equipment and materials where such listing is offered by the Underwriters Laboratories. Provide service entrance labels for all equipment required by the NEC to have such labels.

E. The electrical contractor shall guarantee all work and materials installed under this contract for a period

of one (1) year from date of acceptance by owner. F. All work and materials covered by this specification shall be subject to inspection at any and all times by representatives of the owner. Work shall not be closed in or covered before inspection and approval by the owner or his representative. Any material found not conforming with these specifications shall, within 3 days after being notified by the owner, be removed from premises; if said material has been installed, entire expense of removing and replacing same, including any cutting and patching that may be necessary, shall be borne by the contractor.

A. Drawings: The Electrical Drawings shall govern the general layout of the completed construction. 1. Locations of equipment, panels, pullboxes, conduits, stub-ups, ground connections are approximate unless dimensioned; verify locations with the Engineer prior to installation.

2. The general arrangement and location of existing conduits, piping, apparatus, etc., is approximate. The drawings and specifications are for the assistance and guidance of the contractor, exact locations, distances and elevations are governed by actual field conditions. Accuracy of data given herein and on the drawings is not guaranteed. Minor changes may be necessary to accommodate work. The contractor is responsible for verifying existing conditions. Should it be necessary to deviate from the design due to interference with existing conditions or work in progress, claims for additional compensation shall be limited to those for work required by unforeseen conditions as determined by

3. All drawings and divisions of these specifications shall be considered as whole. The contractor shall report any apparent discrepancies to the Architect prior to submitting bids.

4. The contractor shall be held responsible to have examined the site and compared it with the specifications and plans and to have satisfied himself as to the conditions under which the work is to be performed. He shall be held responsible for knowledge of all existing conditions whether or not accurately described. No subsequent allowance shall be made for any extra expense due to failure to make such examination.

1.05 Closeout Submittals:

A. Manuals: Furnish manuals for equipment where manuals are specified in the equipment specifications or are specified in Division 1.

1.06 Coordination:

A. Coordinate the electrical work with the other trades, code authorities, utilities and the Architect. B. Provide and install all trenching, backfilling, conduit, pull boxes, splice boxes, etc. for all Utility Company services to the locations indicated on the Drawings. Prior to performing any work, the Electrical Contractor shall coordinate with the various Utility Companies to verify that all such work and materials shown on the Drawings are of sufficient sizes and correctly located to provide services on the

C. Utility Company charges shall be paid by the Owner. D. Contractor shall pay all inspection and other applicable fees and procure all permits necessary for the completion of this work. E. Where connections must be made to existing installations, properly schedule all the required work,

including the power shutdown periods. F. When two trades join together in an area, make certain that no electrical work is omitted.

1.07 Job Conditions:

A. Operations: Perform all work in compliance with Division 1

1. Keep the number and duration of power shutdown periods to a minimum. 2. Show all proposed shutdowns and their expected duration on the construction schedule. Schedule and carry out shutdowns so as to cause the least disruption to operation of the Owner's facilities. 3. Carry out shutdown only after the schedule has been approved, in writing, by the owner. Submit

power interruption schedule 15 days prior to date of interruption. B. Construction Power: Unless otherwise noted in Division 1 of these specifications, contractor shall make all arrangements and provide all necessary facilities for temporary construction power to the site. Energy costs shall be paid by the General Contractor.

1.08 Safety and Indemnity:

A. The Contractor is solely and completely responsible for conditions of the job site including safety of all persons and property during performance of the work. This requirement will apply continually and not be limited to normal working hours. The contractor shall provide and maintain throughout the work site proper safeguards including, but not limited to, enclosures, barriers, warning signs, lights, etc. to prevent accidental injury to people or damage to property.

B. The Contractor performing work under this Division of the Specifications shall hold harmless, indemnify, and defend the Owner, the Engineer, their consultants, and each of their officers, agents and employees from any and all liability claims, losses, or damage arising out of or alleged to arise from bodily injury, sickness, or death of a person or persons and for all damages arising out of injury to or destruction of property arising directly or indirectly out of or in connection with the performance of the work under this Division of the Specifications, and from the Contractor's negligence in the performance of the work described in the construction contract documents, but not including liability that may be due to the sole negligence of the Owner, the Engineer, their Consultants or their officers, agents and employees.

C. If a work area is encountered that contains hazardous materials, the contractor is advised to coordinate with the owner and it's abatement consultant for abatement of hazardous material by the Owner's Representative. "Hazardous materials" means any toxic substance regulated or controlled by OSHA, EPA, State of California or local rules, regulations and laws. Nothing herein shall be construed to create a liability for Aurum Consulting Engineers regarding hazardous materials abatement measures, or discovery of hazardous materials.

PART 2 - PRODUCTS

A. Identify each piece of equipment and related controls with a rigid laminated engraved plastic nameplate. Unless otherwise noted, nameplates shall be melamine plastic 0.125 inch thick, white with black center core. Surface shall be matte finish. Corners shall be square. Accurately align lettering and engrave into the core. Minimum size of nameplates shall be 0.5 by 2.5 inches unless otherwise noted. Where not otherwise specified, lettering shall be a minimum of 0.25 inch high normal block style. Engrave nameplates with the inscriptions indicated on the Drawings and, if not so indicated, with the equipment name. Securely fasten nameplates in place using two stainless steel or brass screws.

the surface to which they are affixed.

A. Equipment: Refer to each electrical equipment section of these Specifications for painting requirements of equipment enclosures. Repair any final paint finish which has been damaged or is otherwise unsatisfactory, to the satisfaction of the Engineer. B. Wiring System: In finished areas, paint all exposed conduits, boxes and fittings to match the color of

PART 3 - EXECUTION

3.01 Workmanship:

A. All electrical equipment and materials shall be installed in a neat and workmanship manner in accordance with the "NECA-1 Standard Practices For Good Workmanship in Electrical Contracting". Workmanship of the entire job shall be first class in every respect. 3.02 Equipment Installations:

A. Provide the required inserts, bolts and anchors, and securely attach all equipment and materials

B. Do all the cutting and patching necessary for the proper installation of work and repair any damage

C. Earthquake restraints: all electrical equipment, including conduits over 2 inches in diameter, shall be braced or anchored to resist a horizontal force acting in any direction as per Title 24, part 2, table 16a-o, part 3.

3.03 Field Test:

A. Perform equipment field tests and adjustments. Properly calibrate, adjust and operationally check all circuits and components, and demonstrate as ready for service. B. Operational Tests: Operationally test all circuits to demonstrate that the circuits and equipment have been properly installed and adjusted and are ready for full-time service. Demonstrate the proper functioning of circuits in all modes of operation, including alarm conditions.

A. Maintain one copy of the contract Drawing Sheets on the site of the work for recording the "as built" condition. After completion of the work, the Contractor shall carefully mark the work as actually constructed, revising, deleting and adding to the Drawing Sheets as required. As built Drawings shall be delivered to the Engineer within ten (10) days of completion of construction.

A. Upon completion of electrical work, remove all surplus materials, rubbish, and debris that accumulated during the construction work. Leave the entire area neat, clean, and acceptable to the Engineer.

3.06 Mechanical and Plumbing Electrical Work:

A. The requirements for electrical power and/or devices for all mechanical and plumbing equipment supplied and/or installed under this Contract shall be coordinated and verified with the following: 1. Mechanical and Plumbing Drawings.

2. Mechanical and Plumbing sections of these Specifications.

3. Manufacturers of the Mechanical and Plumbing equipment supplied. B. The coordination and verification shall include the voltage, ampacity, phase, location and type of disconnect, control, and connection required. Any changes that are required as a result of this coordination and verification shall be a part of this Contract.

C. The Electrical Contractor shall furnish and install the following for all mechanical and plumbing equipment: 1. Line voltage conduit and wiring.

2. Disconnect switches. 3. Manual line motor starters.

D. Automatic line voltage controls and magnetic starters shall be furnished by the Mechanical and/or Plumbing Contractor and installed and connected by the Electrical Contractor. When subcontracted for by the Mechanical and/or Plumbing Contractor, all line voltage control wiring installed by the Electrical Contractor shall be done per directions from the Mechanical and/or Plumbing Contractor.

E. All low voltage control wiring for Mechanical and Plumbing equipment shall be installed in conduit. Furnishing, installation and connection of all low voltage conduit, boxes, wiring and controls shall be by the Mechanical and/or Plumbing Contractor.

SECTION 16060 - GROUNDING

1.1 Grounding and Bonding:

A. Grounding and bonding shall be as required by codes and local authorities. B. All electrical equipment shall be grounded, including, but not limited to, panel boards, terminal cabinets and outlet boxes.

C. The ground pole of receptacles shall be connected to their outlet boxes by means of a copper ground wire connecting to a screw in the back of the box. D. A green insulated copper ground wire, sized to comply with codes, shall be installed in all

E. All metal parts of pull boxes shall be grounded per code requirements.

F. All ground conductors shall be green insulated copper.

SECTION 16110 - CONDUITS, RACEWAYS AND FITTINGS

PART 1 - EXECUTION

1.01 Conduit, Raceway and Fitting Installation:

A. For conduit runs exposed to weather provide rigid metal (GRS). B. For conduit run underground, in concrete or masonry block wall and under concrete slabs, install minimum ³/₄" size nonmetallic (PVC) with PVC elbows. Where conduits transition from underground

or under slab to above grade install wrapped rigid metal (GRS) elbows and risers. C. For conduit runs concealed in steel or wood framed walls or in ceiling spaces or exposed in interior

spaces above six feet over the finished floor, install EMT. D. The minimum size raceway shall be 1/2-inch unless indicted otherwise on the Drawings. F. Installation shall comply with the CEC.

G. From pull point to pull point, the sum of the angles of all of the bends and offset shall not exceed 360

H. Conduit Supports: Properly support all conduits as required by the NEC. Run all conduits concealed except where otherwise shown on the drawings. 1. Exposed Conduits: Support exposed conduits within three feet of any equipment or device and at intervals not exceeding NEC requirements; wherever possible, group conduits together and support on common supports. Support exposed conduits fastened to the surface of the concrete structure by

one-hole clamps, or with channels. Use conduit spacers with one-hole clamps. a. Conduits attached to walls or columns shall be as unobtrusive as possible and shall avoid windows. Run all exposed conduits parallel or at right angles to building lines. b. Group exposed conduits together. Arrange such conduits uniformly and neatly.

2. Support all conduits within three feet of any junction box, coupling, bend or fixture. 3. Support conduit risers in shafts with Unistrut Superstrut, or approved equal, channels and straps. I. Moisture Seals: Provide in accordance with NEC paragraphs 230-8 and 300-5(g).

J. Where PVC conduit transitions from underground to above grade, provide rigid steel 90's with risers. Rigid steel shall be half-lap wrapped with 20 mil tape and extend minimum 12" above grade. K. Provide a nylon pull cord in each empty raceway.

L. Provide galvanized rigid steel factory fittings for galvanized rigid steel conduit. M. Slope all underground raceways to provide drainage; for example, slope conduit from equipment located inside a building to the pull box or manhole located outside the building.

SECTION 16120 - LINE VOLTAGE WIRE AND CABLE

N. Conduits shall be blown out and swabbed prior to pulling wires.

PART 1 - PRODUCTS

1.01 Conductors:

A. Conductors shall be copper, type THHN/THWN/MTW oil and gasoline resistant, 600 volt rated

B. Conductors shall be stranded copper. C. Minimum power and control wire size shall be No. 12 AWG unless otherwise noted. D. All conductors used on this Project shall be of the same type and conductor material.

A.Manufacturer - Terminals as manufactured by T&B, Burndy or equal. B. Wire Terminations - Stranded conductors shall be terminated in clamping type terminations which serve to contain all the strands of the conductor. Curling of a stranded conductor around a screw type terminal is not allowed. For screw type terminations, use a fork type stake-on termination on the stranded conductor. Use only a stake-on tool approved for the fork terminals

1.03 Tape: A. Tape used for terminations and cable marking shall be compatible with the insulation and jacket

C. End Seals - Heat shrink plastic caps of proper size for the wire on which used.

of the cable and shall be of plastic material. PART 2 - EXECUTION

2.01 Cable Installation: A.Clean Raceways - Clean all raceways prior to installation of cables as specified in Section 16110 - Conduits Raceway and Fittings. B. All wiring including low voltage wiring shall be installed in conduit.

not permitted unless specifically noted or approved by the Electrical Engineer.

2.02 Cable Terminations and Splices: A.Splices - UL Listed wirenuts. B. Terminations - Shall comply with the following:

1. Make up and form cable and orient terminals to minimize cable strain and stress on device being terminated on. 2. Burnish oxide from conductor prior to inserting in oxide breaking compound filled terminal.

C. All feeder conductors shall be continuous from equipment to equipment. Splices in feeders are

2.03 Circuit and Conductor Identification: A.Color Coding - Provide color coding for all circuit conductors. Insulation color shall be white for neutrals and green for grounding conductors. Conductor colors shall be as follows: VOLTAGE 120/240V 480/277V

Phase A Black Phase B Red Orange White White Neutral Ground Green Green

B. Color coding shall be in the conductor insulation for all conductors #10 AWG and smaller; for larger conductors, color shall be either in the insulation or in colored plastic tape applied at every location where the conductor is readily accessible.

C. Circuit Identification - All underground distribution and service circuits shall be provided with plastic identification tags in each secondary box and at each termination. Tags shall identify the source transformer of the circuit and the building number(s) serviced by the circuit.

A.All systems shall test free from short circuits and grounds, shall be free from mechanical and electrical defects, and shall show an insulation resistance between phase conductors and ground of not less than the requirements of the CEC. All circuits shall be tested for proper neutral

SECTION 16460 - TRANSFORMERS

PART 1 - GENERAL

1.01 Description of Work:

A.The work of this section consists of providing dry type transformers as shown on Drawings and as described in this section.

A.See the following specification sections for work related to the work in this section. 1. 16120 Line Voltage Wire and Cable.

2. 16060 Grounding. 1.03 Submittals: In accordance with Division 1.

A.Shop Drawings: Submit manufacturer's name and nameplate data as follows:

 KVA rating. 2. Nominal primary voltage.

3. Tap voltages. 4. Nominal secondary voltage. 5. Percent impedance.

6. Weight. 7. Physical dimensions and mounting requirements.

B. Submit manufacturer's no-load loss value for transformer.

C. Operation and Maintenance Data: Submit the manufacturer's operation and maintenance data... Copies of the factory and field test reports shall be included in this submittal.

1.04 Factory Testing: A.Tests on transformers shall include the manufacturer's standard tests, including winding resistance, ratio, polarity, phase relation, no-load loss, impedance, full load losses, and dielectric tests. Certified copies shall show compliance with all referenced standards.

PART 2 - PRODUCTS:

2.01 Dry Type Transformer:

A. Unless otherwise noted on the Drawings, general purpose transformers for supplying lighting and small power loads shall be dry type, two winding, 60 Hertz, aluminum windings, temperature rise not exceeding 150C under full load in an ambient of 40C, with Class H 220C insulation. Capacity rating, number of phases and voltages shall be as shown on the Drawings. Transformer shall comply with all applicable provisions of NEMA Standard ST20 and shall have NEMA Standard taps. Transformers rated below 15 KVA shall have two (2) 5% full capacity taps below rated primary volts and transformers rated 15 KVA and above shall have six (6) 2-1/2% full capacity taps, two above the four below nominal voltage Terminal compartment shall have a temperature rise not to exceed 35C. Provide unit UL listed for indoor/outdoor mounting. Provide dry-type transformer as manufactured by Square D, Siemens, General

Electric Company or approved equal. B. Transformers shall be low loss type with minimum efficiencies per NEMA TP-1 when operated at 35% of full load capacity. Efficiency shall be tested in accordance with NEMA TP-2. C. Transformers installed outdoors shall be NEMA 3R, Unless otherwise noted on the Drawings.

D. Transformer sound levels shall not exceed the following values; 1. 0-9 KVA 40 decibels 2. 10-50 KVA 45 decibels

4. 151-300KVA 55 decibels 5. 301-500KVA 60 decibels

PART 3 - EXECUTION 3.01 Transformer Installation:

3. 51-150KVA

A.Transformer shall be where indicated on the Drawings. Indoor transformers shall have code and manufacturers recommended clearances from adjacent walls. In no case should this clearance be less than six inches.

B. Transformer shall be connected with flexible liquid tight metallic conduit to prevent the transmission of sound through the conduit system. All transformers shall be installed on

50 decibels

resilient vibration-isolating mounting pads. C. Transformer neutral grounding shall be sized in accordance with requirements for separately derived systems and shall be connected to the nearest cold water pipe with supplementary driven ground. Ground rod and connections shall be as detailed in Section 16060 [26 05 26].

A.Insulation-Resistance Tests: 480 volt windings shall be tested with a 1000 volt megohm meter; 208 or 240 shall be tested with a 500 volt megohm meter. All tests shall be applied for not less than 5 minutes and until three consecutive readings, one minute part, are obtain. Readings shall be recorded every 30 seconds for the first two minutes and every minute thereafter. B. Acceptance: Acceptance with be based on satisfactory completion of the insulation resistance

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS.

ABBREVIATIONS AMPERE NEW ABOVE FINISHED NIC NOT IN CONTRACT FLOOR NIEC NOT IN ELECTRICAL ALUM./AL ALUMINUM CONTRACT (NL) NIGHT LIGHT ARCH. ARCHITECT NO. NUMBER AWG AMERICAN WIRE NOM NOMINAL NTS NOT TO SCALE BREAKER OVERALL HEIGHT CONDUIT CATV CABLE TV ON CENTER CIRCUIT BREAKER CB OVERHEAD CCTV CLOSED CIRCUIT TV PUBLIC ADDRESS CKT CIRCUIT PULL BOX CL CENTER LINE POWER FACTOR CLG CEILING PHASE CO CONDUIT ONLY PASSIVE INFRARED CTR CENTER PANEL PHOTOVOLTAIC DIM DIMENSION PVC POLYVINYL DIST DISTRIBUTION CHLORIDE FXISTING POWER ELECTRICAL EXISTING TO BE (R) CONTRACTOR REMOVED **EVENING LIGHT** REMOVABLE POLE **EMERGENCY** RECPT'S RECEPTACLES ELECTRICAL REQD REQUIRED METALLIC TUBING REOMT'S REQUIREMENT(S) **EQUIPMENT** FQUIF FIRE ALARM S.L.D. SINGLE LINE DIAGRAM FACP FIRE ALARM STC SYSTEMS TERMINATION CONTROL PANEL **CABINET** FIN SWITCH FINISH **FLOOR** SWBD SWITCHBOARD FLUOR. FLUORESCENT TTB TELEPHONE TERMINAL BACKBOARD **FUTURE TYPICAL** GENERAL UNLESS OTHERWISE UON CONTRACTOR GFCI **GROUND FAULT** UG UNDERGROUND INTERRUPTING VOLT GND, G GROUND WATT GRS GALVANIZED RIGID STEEL WEATHERPROOF HEIGHT XFMR TRANSFORMER INTERCOM INTERMEDIATE DISTRIBUTION FRAME

INCANDESCENT

JUNCTION BOX

KILOVOLT AMPERES

LIGHTING CONTROL

KILOVOLT

KII OWATT

LIGHTING

THOUSAND

LOW VOLTAGE

CIRCULAR MILS

MECHANICAL

METAL HALIDE

MAIN LUGS ONLY

MAIN POINT OF

ENTRANCE

MOUNTED

MOUNTING

MAIN DISTRIBUTION

ΚV

KVA

KW

LCP

LTG

KCM

MDF

MPOE

MTG

APPLICABLE CODES & STANDARDS

CODES:

CIRCUIT BREAKER.

GROUND ELECTRODE

NORMALLY OPEN CONTACT.

NORMALLY CLOSED CONTACT.

FLEX CONDUIT WITH CONNECTION.

CONDUIT - BELOW SLAB OR

UNDERGROUND: 3/4"MIN.

CONDUIT CONTINUATION

CAPPED CONDUIT. STUB-OUT

MFGR'S NAMEPLATE DATA.

DUPLEX AT + 18" AFF UON.

NOTE ON SAME SHEET.

DETAIL NUMBER

E3.0 SHEET NUMBER

NON-FUSED DISCONNECT SWITCH

GFCI CONVENIENCE RECEPTACLE -

SHEET NOTE REFERENCE SYMBOL;

SEE ASSOCIATED NOTE ON SAME SHEET.

SCHEDULE SYMBOL; SEE ASSOCIATED

DETAIL OR SECTION REFERENCE

INDICATES QUANTITY OF TELEPHONE OUTLETS

SEE ASSOCIATED NOTE ON SAME DETAIL

SEE ASSOCIATED NOTE ON SAME DETAIL

INDICATES QUANTITY OF DATA OUTLETS

(2) DETAIL NOTE REFERENCE SYMBOL

FEEDER DESIGNATION:

FUSED DISCONNECT SWITCH. FUSED WITH

DUAL-ELEMENT FUSES SIZED PER EQUIPMENT

GROUND ROD WITH GROUNDWELL BOX

TRANSFORMER - SEE SINGLE LINE FOR SIZE

CONDUIT - CONCEALED IN WALLS OR CEILING.

1. 2013 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1

2. 2013 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA

3. 2013 CALIFORNIA RESIDENTIAL CODE C.C.R., TITLE 24, PART 2.5 BASED ON THE 2012 INTERNATIONAL RESIDENTIAL CODE WITH CALIFORNIA AMENDMENTS.

4. 2013 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2011 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.

5. 2013 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2012 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.

6. 2013 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2012 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.

7. 2013 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.

8. 2013 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2012 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.

9. 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11. 10. 2013 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.

11. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

12. NATIONAL FIRE ALARM CODE (NFPA 72) 2010. 13. COUNTY OF SAN BENITO ORDINANCES, CODES, AND REGULATIONS.

STANDARDS:

1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)

3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)

4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

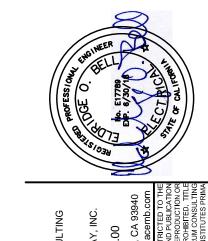
5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)

6. UNDERWRITER LABORATORIES (UL) 7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

LANDSCAPE ARCHITECTS

425 Pacific Street, Suite 201 Monterey, California 93940 831.646.1383 | www.bfsla.com

CONSULTANTS



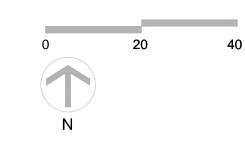
REVISIONS

Date Description

PROJECT

Veterans Memorial Park **Irrigation Design**

Hollister, California



Scale: As Shown Drawn/Checked: CADD/M.P. File: 00000_ Project #: 16.044 Issuance: Bid Docs Date: September 16, 2016

SHEET

SYMBOLS, **ABBREVIATIONS & ELECTRICAL SPECIFICATIONS**



425 Pacific Street, Suite 201 Monterey, California 93940 831.646.1383 | www.bfsla.com

ARCHITECTS

CONSULTANTS



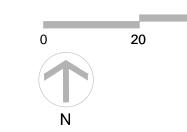


REVISIONS

PROJECT

Veterans Memorial Park Irrigation Design

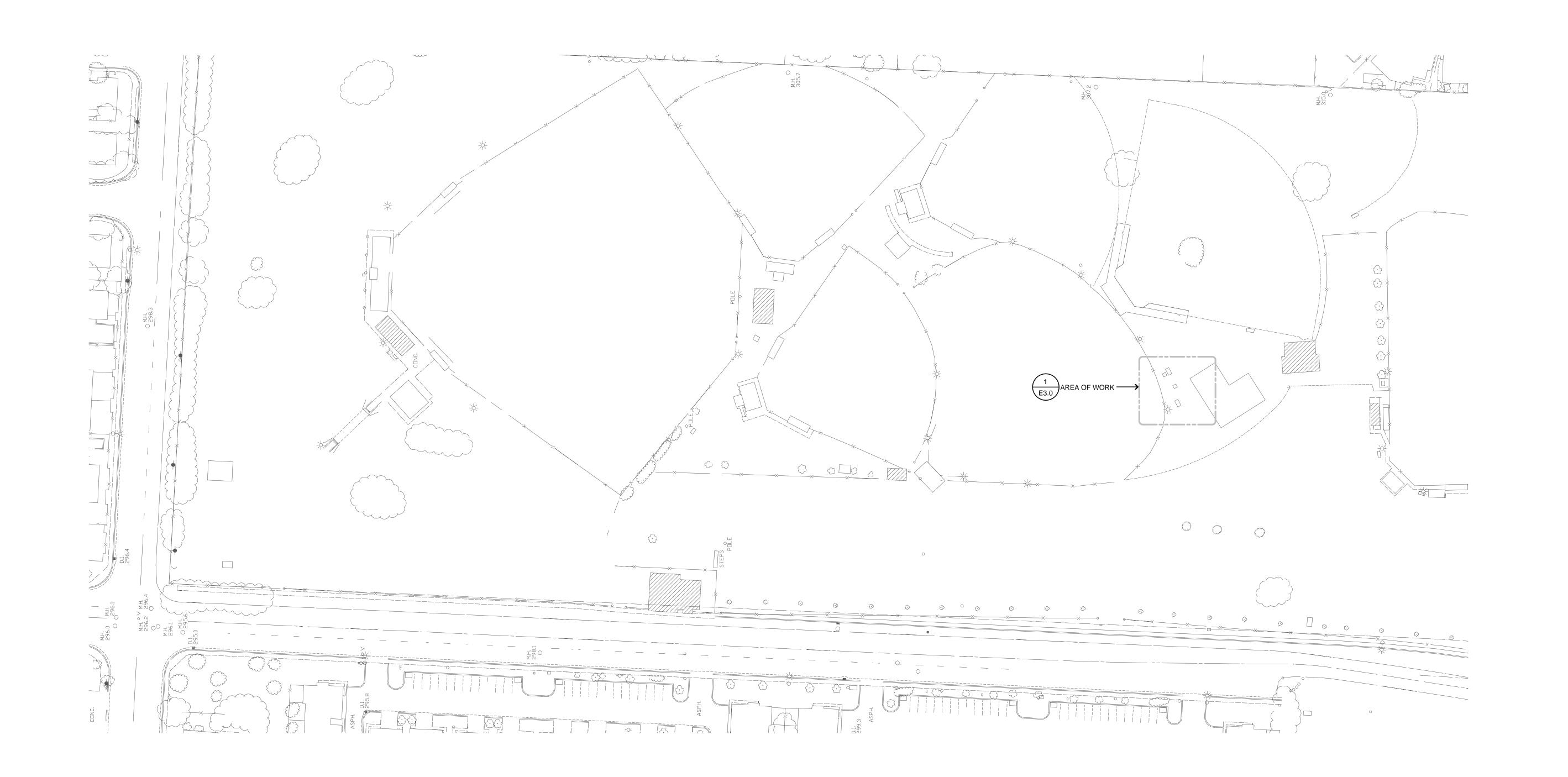
Hollister, California

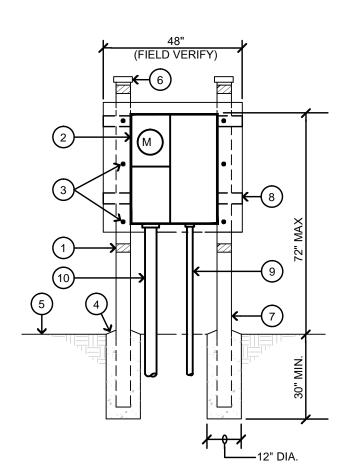


Scale: As Shown Drawn/Checked: CADD/M.P. File: 00000_ Project #: 16.044 Issuance: Bid Docs Date: September 16, 2016 SHEET

OVERALL

SITE PLAN





DETAIL NOTES:

1. 3" REFLECTOR TAPE TOP & BOTTOM TYP.

2. SELF-CONTAINED METER/MAIN LOAD CENTER SEE 2/E3.0.

3. THRU-BOLTED WITH GALVANIZED HARDWARE AT 6 PLACES, TYP. FILE AND SMOOTH ALL SHARP

> 4. CONC. BASE, SLOPE AWAY FROM PIPE, TYP.

FINISHED GRADE

6. THREADED STEEL CAP TYP.

7. 3" GALVANIZED STEEL PIPE, TYP.

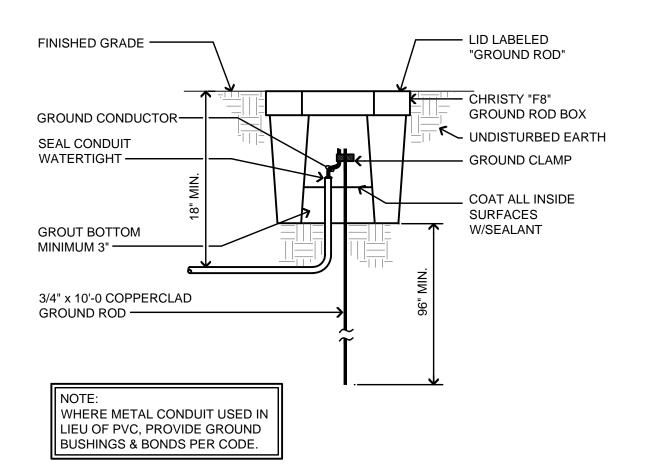
8. UNISTRUT P1000 ACROSS BACK OF BACKBOARD (TYP. 2 PLACES) FILE AND SMOOTH ALL SHARP EDGES.

9. WELL PUMP CIRCUIT.

10. CONDUIT FOR PG&E SECONDARY.

METER/MAIN MOUNTING DETAIL

NO SCALE



GROUND ROD DETAIL

AC PAVING OR CONC.

MIN. 95% COMPACT EARTH

WARNING MARKER TAPE

CONTINUOUS LENGTH OF

NO SCALE

WHEN OCCURS —

FILL, SEE SPECS —

TRENCH-

FINISHED GRADE

SIZE AND USAGE

TYPICAL TRENCH SECTION

- CONDUIT, SEE PLANS FOR QUANTITY,

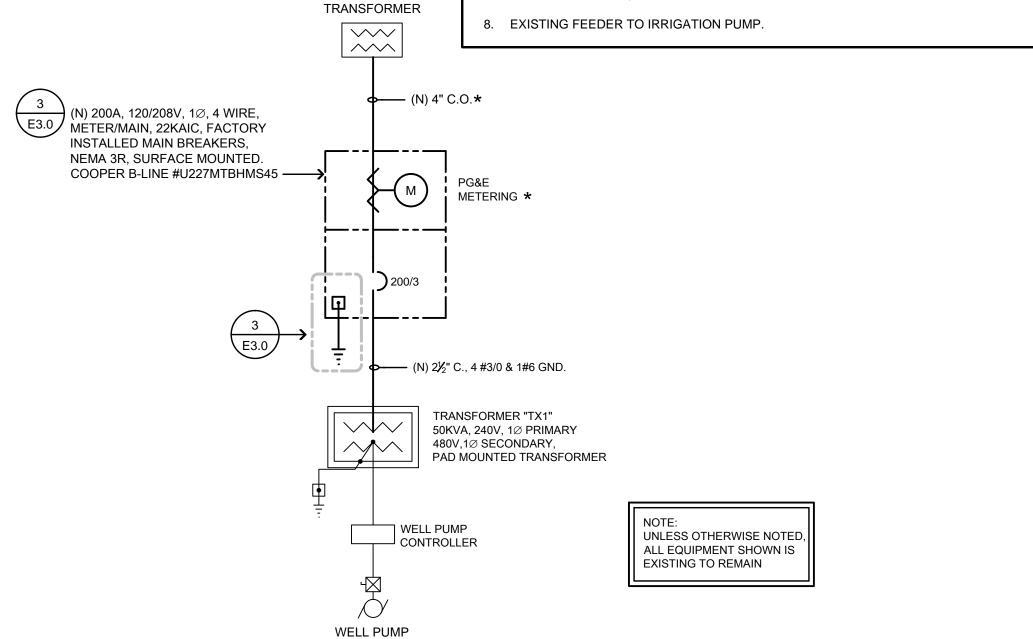
- SAND BACKFILL [NATIVE SOIL]

ELECTRICAL SERVICE GROUND 3

NO SCALE

○ SHEET NOTES

- 1. EXISTING SWITCHBOARD "SWBD A"; 400A, 120/208V, 3Ø, 4W.
- 2. EXISTING SWITCHBOARD "SWBD B"; 400A, 120/208V, 3Ø, 4W.
- 3. EXISTING PG&E PAD MOUNTED TRANSFORMER (T-1040).
- 4. DISCONNECT EXISTING TRANSFORMER FROM SWITCHBOARD AND RECONNECT TO NEW
- 5. CONNECT EXISTING TRANSFORMER TO NEW METER/MAIN. SEE 2/E3.0 FOR FEEDER SIZE.
- 6. 75 KVA TRANSFORMER; 120/208V PRI. 480V SECONDARY.
- 7. PG&E SECONDARY; SEE 2/E3.0 FOR FEEDER SIZE.



PG&E PAD MOUNTED

SINGLE LINE DIAGRAM

6 E3.0

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

PARTIAL ELECTRICAL SITE PLAN

* PER PG&E RULES, REGULATIONS AND STANDARDS

PROJECT

REVISIONS

Date Description

LANDSCAPE

ARCHITECTS

425 Pacific Street, Suite 201

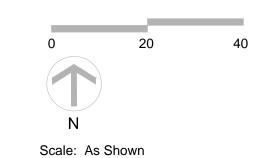
Monterey, California 93940

831.646.1383 | www.bfsla.com

CONSULTANTS

Veterans Memorial Park Irrigation Design

Hollister, California



Drawn/Checked: CADD/M.P. File: 00000_ Project #: 16.044 Issuance: Bid Docs

Date: September 16, 2016 SHEET

PARTIAL SITE PLAN, SINGLE LINE DIAGRAM AND DETAILS

E3.0

