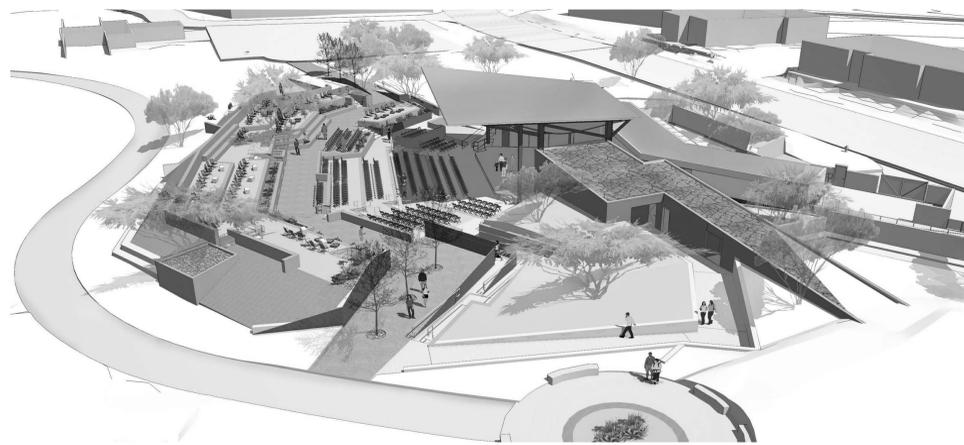


RANCHO MIRAGE COMMUNITY PARK AMPHITHEATER FENCE

CP 16-323

71-560 San Jacinto Drive ~ Rancho Mirage, CA 92270



GENERAL NOTES

- The General Contractor shall furnish all materials, labor, equipment, transportation and services necessary for the satisfactory completion of the Work unless designated specifically otherwise. Work shown in these drawings designated Not In Contract (N.I.C.) is shown for informational purposes only and is NOT the responsibility of the General Contractor. All equipment, work, and materials shall comply with all current applicable model codes, local municipal codes, ordinances, and governing regulations, and the Contract Documents.
- Not Used.
- Not Used.
- When it is necessary to interrupt any existing utility service(s) to make connections and/or corrections, a minimum of 48 hours advanced notice shall be given to the Owner. Interruptions in utility services shall be of the shortest possible duration for the Work at hand and shall be approved in advance by the Owner.
- In the event the utility service is interrupted without the required 48 hour advanced notice, then the General Contractor shall be financially liable for all damages suffered by the Owner due to unauthorized interruption. Reconnection shall be made immediately.
- Final Clean-Up and Disposal: The General Contractor shall remove debris, rubbish and waste material from the Owner's property and common areas to a lawful disposal area and pay all hauling and dumping costs. The General Contractor shall conform to pertinent Federal, State, and Local laws, regulations and orders upon completion of Work. All construction areas shall be left vacuum-clean and free from debris. Clean all dust, dirt, stains, hand marks, paint spots, droppings and other blemishes.
- The General Contractor shall exercise extreme caution during the construction period to protect existing buildings and facilities indicated to remain including the exterior and interior finishes, furniture and equipment.
- The General Contractor to provide approved temporary sanitary facilities (i.e. chemical toilets) on the construction site prior to commencement of the Work.
- The General Contractor shall have sole control over and charge of and responsibility for construction means, methods, techniques, sequences or procedures, and for safety precautions and programs in connection with the Work.
- The Architect shall not be responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents.
- The Architect shall have authority to reject Work that does not conform to the Contract Documents.
- If concealed or unknown physical conditions are encountered at the site that differ materially from those indicated in the Contract Documents or from those conditions ordinarily found to exist, these conditions shall be brought to the attention of the Architect and the Owner prior to continuing with the Work.
- Structures in the course of construction, alteration or demolition shall comply with Chapter 14 of the 2013 California Fire Code and NFPA 241.

PROJECT NOTES

These Project Notes are not all-inclusive and DO NOT relieve the Contractor(s) on this Project of their responsibility to review all relevant codes. The Contractor shall ask questions, call to the attention of the Architect and Owner any and all discrepancies, omissions and errors in these documents.

INSPECTIONS

- The Contractor shall be responsible to make application for, secure and pay for all permits and fees required by the various permitting agencies and utility purveyors. Unless otherwise specified in writing by the owner.
- The Contractor shall be responsible to schedule all inspections. Normal inspections by the building, engineering, fire and other permitting agency departments shall be conducted as required by those respective agencies. All re-inspection fees shall be paid by the contractor.

CONSTRUCTION DOCUMENTS

- Contract Drawings and Specifications are mutually inclusive and what is required by one is required by the other. There is no precedence intended or implied between Drawings and Specifications and, in the event of a conflict, the Architect shall be their interpreter. Any work installed prior to and/or in conflict with such interpretation shall be corrected by the Contractor at the Contractor's expense and at no additional cost to the Owner.
- In no case shall dimensions be scaled from Drawings. The Contractor shall verify all conditions and dimensions in the field before proceeding with subsequent work. Any discrepancies between conditions indicated and actual field conditions shall be brought to the attention of the Architect for clarification prior to proceeding. Any work installed prior to and/or in conflict with such clarification shall be corrected by the Contractor at the Contractor's expense and at no additional cost to the Owner.
- All dimensions are to face of stud or centerline of walls, columns and beams unless otherwise noted. Floor elevations are to top of concrete slab unless otherwise noted.
- All symbols and abbreviations used on the Drawings are considered to be construction standards. Any questions regarding the exact meaning of a symbol or abbreviation shall be brought to the attention of the Architect for clarification.
- Details marked "TYPICAL" shall apply in reasonably inferable similar conditions unless indicated otherwise.
- Notes contained within these documents which use the words "PROVIDE" or "INSTALL" shall be interpreted to mean "THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL" unless noted otherwise.
- The Specifications and ALL Consultant Drawings are supplemental to the Architectural Drawings. It shall be the Contractor's responsibility to coordinate with the Architectural Drawings before the installation of any of the Consultant's work and to bring any discrepancies or conflicts to the attention of the Architect in writing for clarification. Improperly installed work shall be corrected by the General Contractor at the General Contractor's expense and at no expense to the Architect, the Architect's Consultants, or the Owner.
- The General Contractor and the General Contractor's Subcontractors are responsible for reviewing, bidding, coordinating and performing their work based on the ENTIRE set of Contract Documents. Improperly installed work or contract requirements identified by these Documents excluded by the Contractor without prior written approval of the Architect shall be corrected by the General Contractor at the General Contractor's expense and at no expense to the Architect, his Consultants, or the Owner.
- Any Work installed in conflict with the Contract Documents shall be corrected by the Contractor at the Contractor's expense and at no additional expense to the Owner, the Architect, or the Architect's Consultants.
- Drawings of existing conditions have been compiled from existing data supplied by the Owner to the Architect. The Architect makes no warranty either expressed or implied for the accuracy or completeness of the existing information recorded. The General Contractor shall field verify ALL existing conditions. The General Contractor shall notify in writing any discrepancies for clarification prior to proceeding with work.

ABBREVIATIONS

AFF	Above Finish Floor	LS	Laundry Sink
AC	Air Conditioning Condenser	LAV	Lavatory
AB	Anchor Bolt	LT WGT	Light Weight
ARCH	Architectural	LN	Lined Closet
AWN	Awning	MFR	Manufacturer
BM	Benchmark	MAX	Maximum
BKLG	Blocking	MECH	Mechanical
BR	Broom Closet	MCHCW	Medicine Cabinet/Microwave
BLDG	Building	MIN	Minimum
CAB	Cabinet	MIR	Mirror
CRPT	Carpet	NAP	Napkin Receptacle
CLG	Ceiling	N	New
CL	Center Line	NOM	Nominal
CT	Ceramic Tile	NC	Not In Contract
C/O	Clean Out	NTS	Not To Scale
CLR	Clear	OBSC	Obscure
CLO	Closet	OC	On Center
CW	Cold Water	OPN	Opening
CONC	Concrete	OPP	Opposite
CMU	Concrete Masonry Units	PR	Painted
CONT	Continuous	PTD	Pair
CJ	Control Joint	P	Plating
DTL	Detail	PTD	Paper Towel Dispenser
DIA	Diameter	PL	Plate
DIM	Dimension	P.O.C.	Point of Connection
DW	Dishwasher	PIV	Peer Indicator Valve
DN	Down	PTDF	Pressure Treated Douglas Fir
DS	Downspout	RAD	Radius
DWG	Drawing	HD	Range Hood
DF	Drinking Fountain	R/O	Range Oven
DRY	Dryer	REF	Refrigerator
EA	Each	RE	Reference
ELEC	Electrical	R	Remove
EM	Electrical Meter	REQD	Required
EP	Electrical Panel	RAG	Return Air Grill
ELEV	Elevation	R	Riser
EMB	Embed	RH	Robe Hook
EQUIP	Equipment	RD	Roof Drain
(E)	Existing	RM	Room
EJ	Expansion Joint	RO	Rough Opening
FOC	Face of Concrete	SCH	Schedule
FOF	Face of Finish	SCD	Seat Cover Dispenser
FOB	Face of Brick	SHLP	Shelf
FOU	Face of Unit	SHF	Shelf and Pole
FDC	Fire Dept. Connection	SHW	Shower
FE	Fire Extinguisher	SIM	Similar
FH	Fire Hydrant	SD	Soap Dispenser
FR	Fire Restaurant	SG	Solid Core
FSH	Fire Sprinkler Head	SPEC	Specifications
FSR	Fire Sprinkler Riser	SQ	Square
FLR	Floor	SF	Square Feet
FD	Floor Drain	SS	Stainless Steel
FAU	Forced Air Unit	STD	Standard
GI	Galvanized Iron	STL	Steel
GD	Garbage Disposal	STR	Structural
GA	Gauge or Gage	THK	Thick
GC	General Contractor	TP	Toler Paper
GBSB	Grab Bar 24" Long	T & B	Top + Bottom
GYP BD	Gypsum Board	TOB	Top of Beam
HC	Hand Cap	TCC	Top of Concrete
HCV	Hand Valve	TOP	Top of Parapet
HGT	Height	T.O.S.	Top of Scaffolding
HM	Hollow Metal	TOW	Top of Wall
HGRZ	Horizontal	TBIB	Towel Bar 24" Long
HS	House Slab	TD	Towel Dispenser
HW	Hot Water	TRASH	Trash Enclosure
INSUL	Insulation	TR	Trash Receptacle
INT	Interior	T	Tread
JST	Joint	T/SH	Tub/Shower Combination
K/S	Kitchen Sink		

SYMBOL LEGEND

	GRID STATION
	WALL TYPE
	DOOR I.D.
	ELEVATION MARKER
	SECTION MARKER
	KEY NOTE
	RESTROOM ACCESSORY
	ROOM I.D.
	ROOM I.D. W. AREA & OCCUPANCY DATA
	FINISH I.D.
	NORTH ARROW
	REVISION TAG

PROJECT NOTES

- The Work to be done consists of furnishing all materials, equipment, tools, labor, and incidentals as required by the Plans, Specifications and Contract Documents. The general items of work to be done hereunder consist of the fabrication and installation of an architecturally exposed structural-steel fence enclosure and entry gates. Improvements include but are not limited to site preparation, footing excavation, fence footings and attachments, fence panels, and gates.
- Demolition, removal and/or relocation of plant material, boulders, irrigation systems and equipment, and other surface and sub-surface items that will conflict with the installation of the fence enclosure shall be the responsibility of the City.
- Surface and subsurface items that are discovered by the Contractor during the course of construction that conflict with the installation of the fence enclosure shall be brought to the attention of the City immediately and shall be addressed by the City's forces unless directed otherwise.
- Items moved, damaged, or destroyed by the Contractor during the course of construction shall become the responsibility of the Contractor and shall be replaced or restored to working order and condition to the satisfaction of the City.
- Restoration and/or replacement of plant material, boulders, irrigation systems and equipment, and other surface and sub-surface items displaced by this project shall be restored upon completion of the fence enclosure and shall be the responsibility of the City.
- The Project shall meet or exceed the structural design requirements for 85 mph wind speed Exposure C.
- The Project shall meet or exceed the structural design requirements for Seismic Site Class D.

UTILITY PURVEYORS

WATER: Coachella Valley Water District T: 760.398.2651	ELECTRICITY: Southern California Edison T: 800.684.8123
SEWER: Coachella Valley Water District T: 760.398.2651	TELEPHONE: Verizon T: 800.483.5000
GAS: Southern California Gas Company T: 800.427.2200	TRASH: Burrtec Waste & Recycling Services T: 760.340.2113
CABLE: Time Warner Cable T: 760.340.2225	UNDERGROUND UTILITY ALERT: USA Dig Alert T: 800.227.2600

SHEET INDEX

A	ARCHITECTURAL
A-1.0	TITLE SHEET
A-2.0	FENCE PLAN
A-3.0	DETAILS
A-3.1	DETAILS
A-4.0	SPECIFICATIONS
S	STRUCTURAL
S-1	GENERAL NOTES & DETAILS

PROJECT DESCRIPTION

The City of Rancho Mirage recently completed an expansion of the existing Rancho Mirage Community Park including the construction of a new amphitheater facility. The amphitheater includes terrace seating areas, a covered performance platform, public restrooms, storage and back-of-house facilities.

The Project is to fabricate and install an architectural steel fence enclosure with two access gates to facilitate crowd management during amphitheater productions and secure the facility when the amphitheater is not in use.

PROJECT DATA

ASSESSORS PARCEL NUMBERS:	684-181-012, 684-181-032, 684-181-033, 684-181-036, 684-181-037, 684-150-011, 684-150-016, 684-150-018, 684-150-025
STREET ADDRESS:	71-560 San Jacinto Drive Rancho Mirage, CA 92270
LEGAL DESCRIPTION:	Lot/Parcel : A PORTION OF SECTION 12, T3S, R5E, SBM Tract Number: Records of Riverside County, CA
ZONING / LAND USE DESIGNATION:	OS-PP (Opens Space - Public Park)
SPECIFIC PLAN:	Highway 111 East Specific Plan (District 6 & 8)
EXISTING BUILDING SIZE:	Enclosed Building: 3,825 SF Covered Platform: 1,700 SF
LOT SIZE:	9.98 Acres 434,729 SF
LOT COVERAGE:	Exist. Structures 8,264 SF Lot Coverage 1.78%
PROPOSED IMPROVEMENTS:	Architectural steel fence enclosure and access gates to secure the existing amphitheater facility
EXISTING STRUCTURE(S) DESCRIPTION:	Existing single story covered amphitheater platform with adjacent production support spaces. 4,970 SF of enclosed space. Existing single story restroom/utility structure (existing to remain - no improvements); 1,869 SF Existing historical stone residence (existing to remain - no improvements); 870 SF

APPLICABLE MODEL CODES

ALL CONSTRUCTION SHALL COMPLY WITH OR EXCEED THE FOLLOWING STANDARDS:

CALIFORNIA BUILDING CODE	2013 EDITION
CALIFORNIA PLUMBING CODE	2013 EDITION
CALIFORNIA MECHANICAL CODE	2013 EDITION
CALIFORNIA ENERGY CODE	2013 EDITION
CALIFORNIA ELECTRIC CODE	2013 EDITION
CALIFORNIA FIRE CODE	2013 EDITION
NFPA STANDARDS	as adopted by TITLE 24
CITY OF RANCHO MIRAGE MUNICIPAL CODE	CURRENT EDITION

REQUIRED SPECIAL INSPECTIONS

IN ADDITION TO REGULAR INSPECTIONS, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CBC SECTION 1702:

- FIELD WELDING
- EXPANSION/EPOXY ANCHORS

CITY OF RANCHO MIRAGE CONSTRUCTION NOTES

- The City of Rancho Mirage CONSTRUCTION HOURS:
Monday-Friday 7:00 AM - 7:00 PM
Saturday 8:00 AM - 5:00 PM
Sunday NOT PERMITTED
Government Holidays NOT PERMITTED
- All Contractors shall have a current valid City Business license prior to permit issuance per Rancho Mirage Municipal Code.
- All Contractors and/or owner-builders must submit Certificate of Workers Compensation insurance coverage prior to the issuance of a building permit per California Labor Code section 1800.
- Contractor and/or Owner shall provide a trash bin to insure proper clean-up of all building materials per ordinance of the Rancho Mirage Municipal Code.
- Storage of building materials or debris shall be confined to the lot for which the permit is issued. Adjacent vacant properties may not be utilized for this purpose unless written permission of the Owner of the adjacent property is on file with the permitting authority. The public Right-of-Way shall be maintained in a clear condition at all times. Comply with the City of Rancho Mirage Municipal Code.

McAuliffe & Company, Inc. ARCHITECTS

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Palm Desert, California 92260
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mail@meacoinc.com

MICHAEL T. McAULIFFE, AIA C-27929



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REVISIONS:	

ISSUE DATE:	05.19.2016
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PERMIT SET	
REVISION SET	
CONSTRUCTION SET	
DRAWN BY:	McA
CHECKED BY:	McA
MCA PROJECT NO.:	13-007.1

Rancho Mirage Community Park Amphitheater Fence

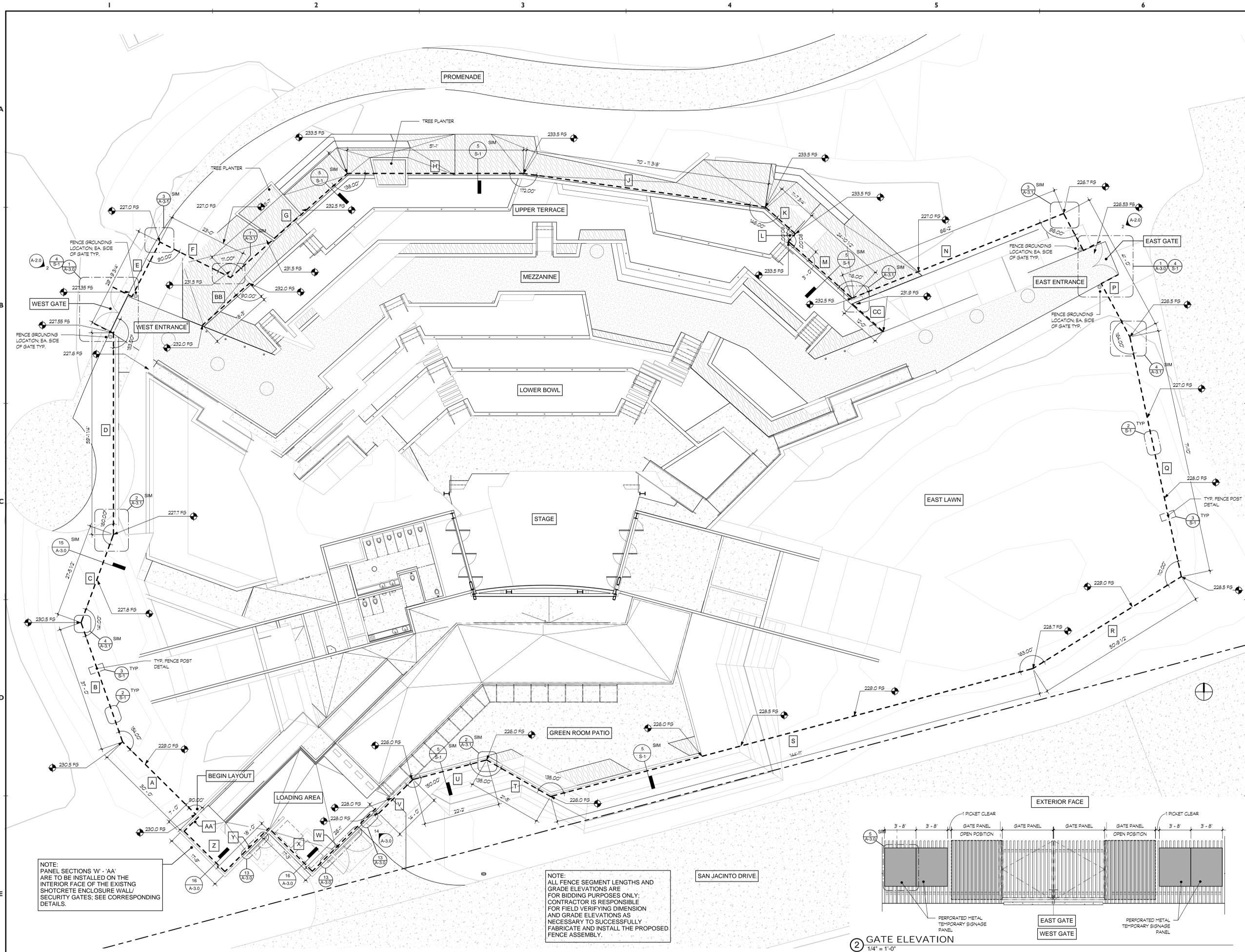
CP 16-323
71-560 San Jacinto Dr
Rancho Mirage, CA
92270
for
The City of
Rancho Mirage
69-825 Highway 111
Rancho Mirage, CA 92270

760.324.4511

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TITLE SHEET

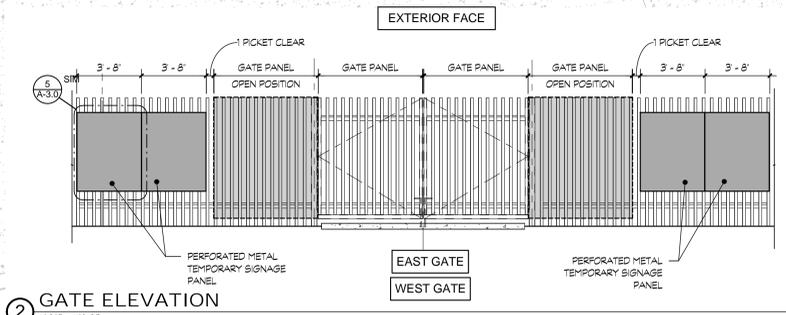
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NOTE:
 PANEL SECTIONS 'W' - 'AA'
 ARE TO BE INSTALLED ON THE
 INTERIOR FACE OF THE EXISTING
 SHOTCRETE ENCLOSURE WALL/
 SECURITY GATES; SEE CORRESPONDING
 DETAILS.

NOTE:
 ALL FENCE SEGMENT LENGTHS AND
 GRADE ELEVATIONS ARE
 FOR BIDDING PURPOSES ONLY;
 CONTRACTOR IS RESPONSIBLE
 FOR FIELD VERIFYING DIMENSION
 AND GRADE ELEVATIONS AS
 NECESSARY TO SUCCESSFULLY
 FABRICATE AND INSTALL THE PROPOSED
 FENCE ASSEMBLY.



1 FENCE PLAN
 1" = 10'-0"

2 GATE ELEVATION
 1/4" = 1'-0"

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Rancho Mirage Community Park Amphitheater Fence

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 92270

for
**The City of
 Rancho Mirage**
 69-825 Highway 111
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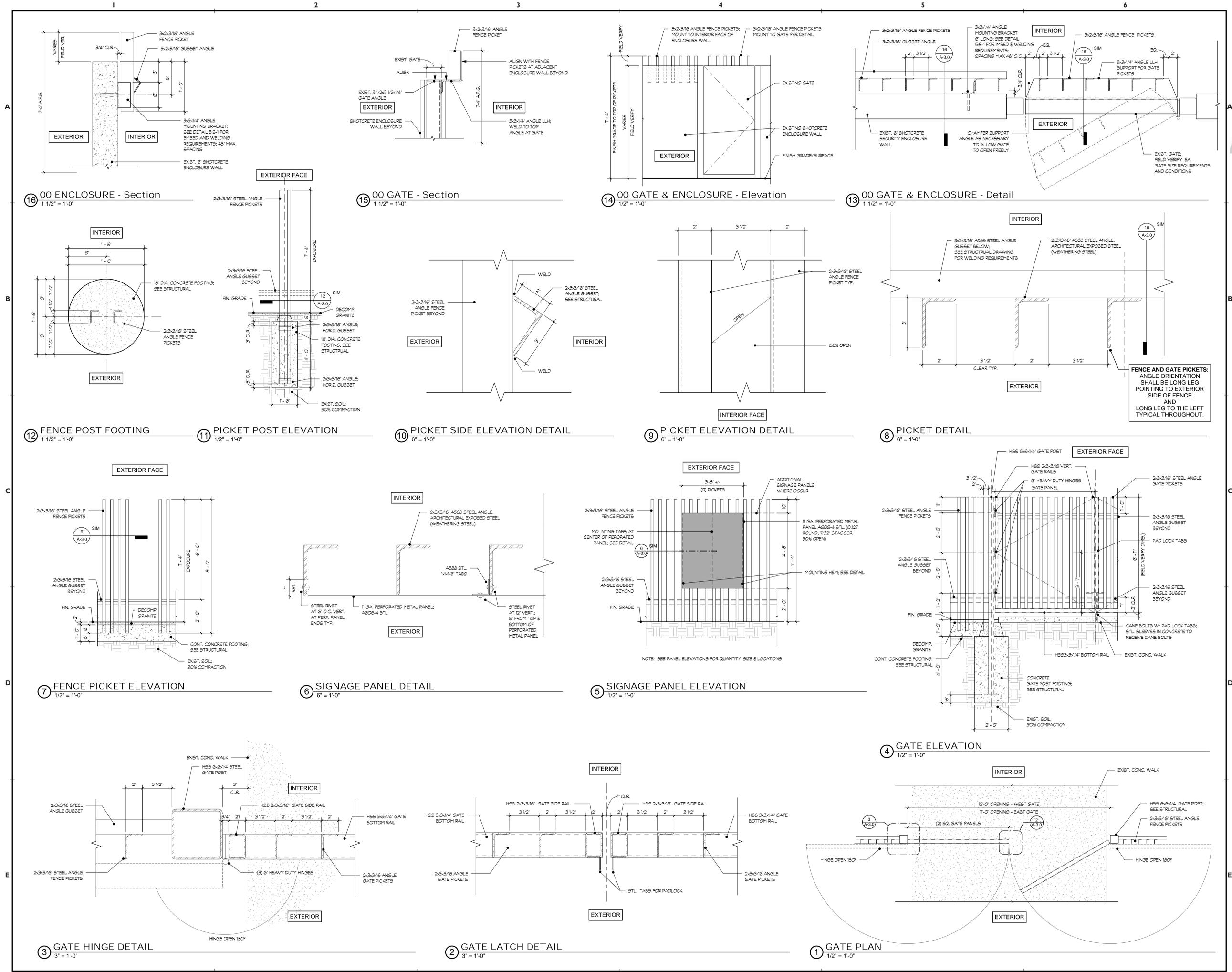
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FENCE PLAN

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DESIGN DEVELOPMENT SET	CHECKED BY:
PLANS/PERMIT SET	McA
CONSTRUCTION SET	McA PROJECT NO: 13-007.1
DATE: 06.17.2016	

Rancho Mirage Community Park Amphitheater Fence

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Rancho Mirage, CA 92270

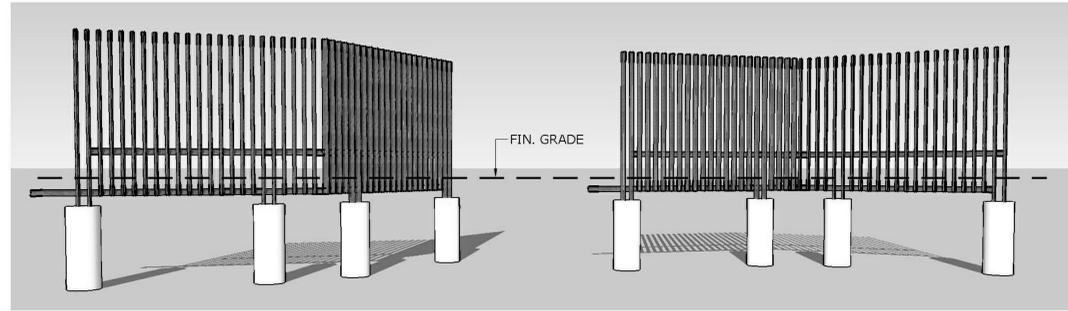
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69-825 Highway 111
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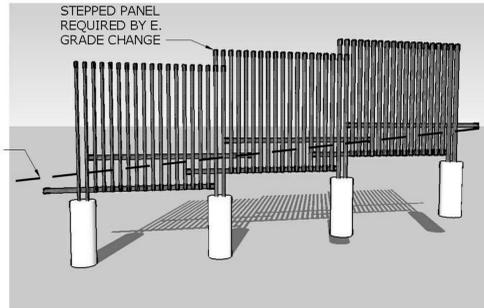
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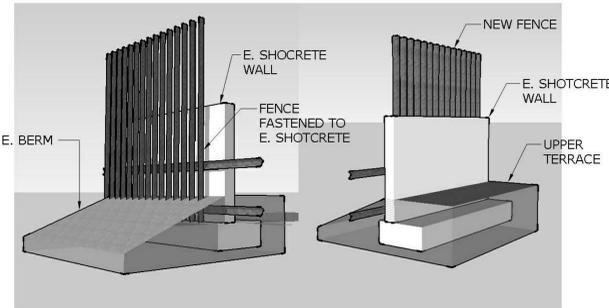


OUTSIDE CORNER

INSIDE CORNER

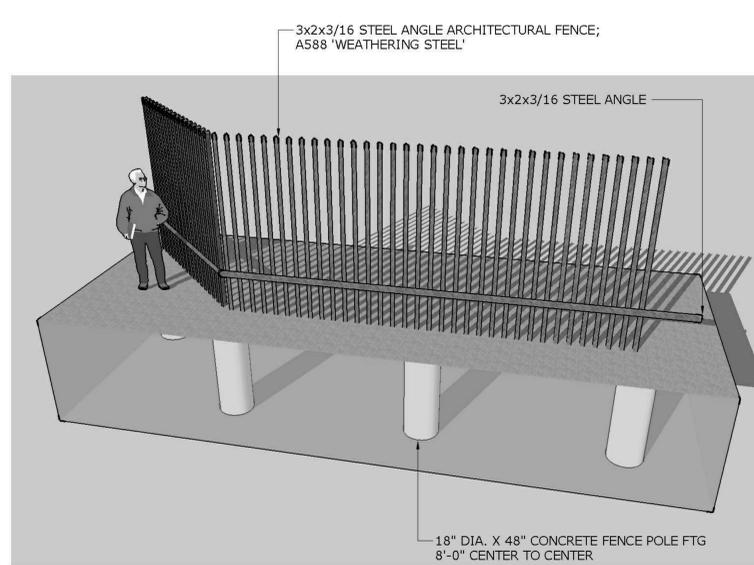


STEPPED PANEL

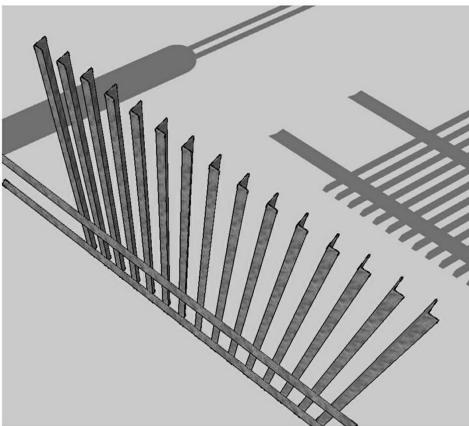


SHOTCRETE EXTERIOR

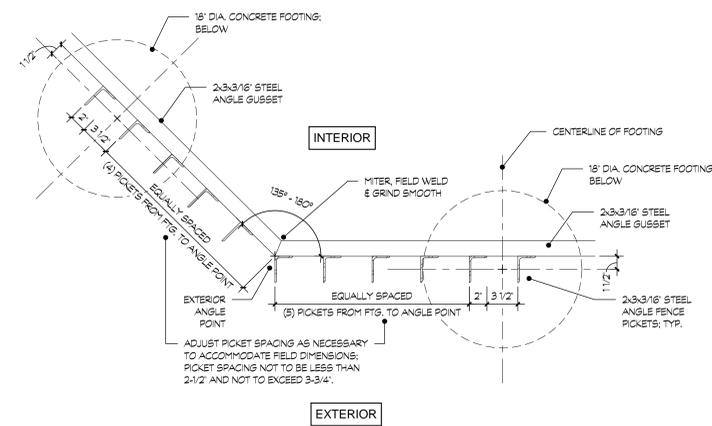
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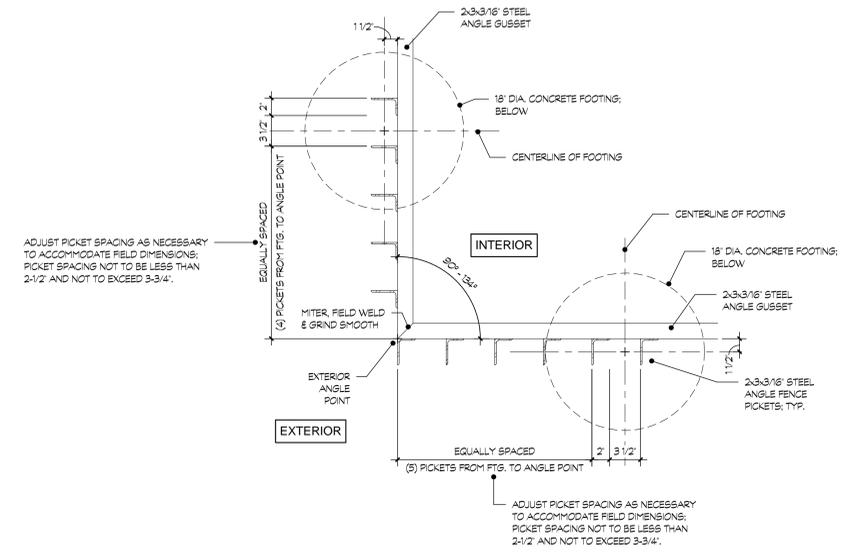
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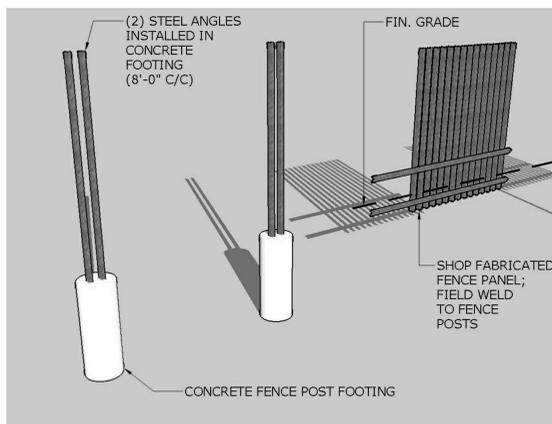
PERSPECTIVE



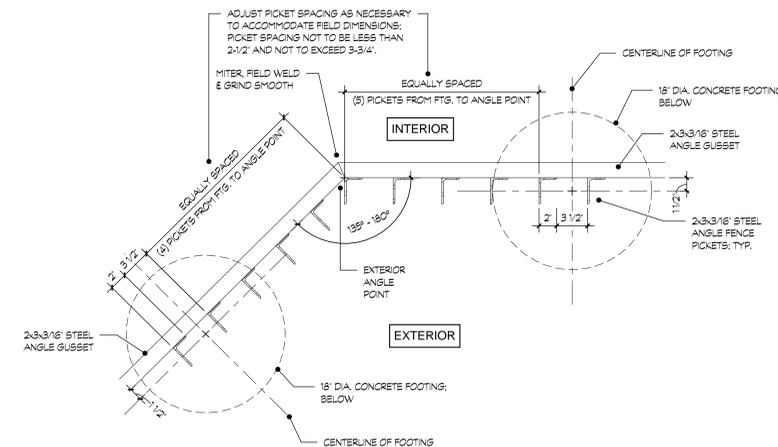
④ FENCE - OUTSIDE CORNER LAYOUT - 135+ DEG.
1 1/2" = 1'-0"



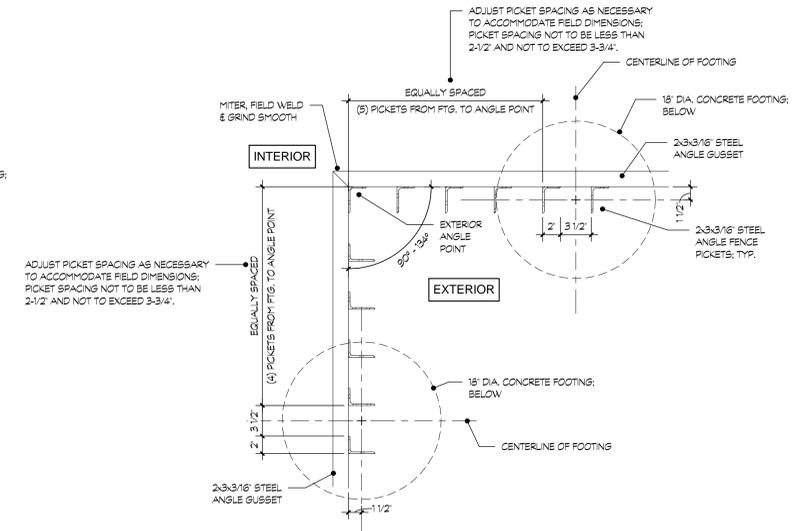
③ FENCE - OUTSIDE CORNER LAYOUT 90-134 DEG.
1 1/2" = 1'-0"



PERSPECTIVE



② FENCE - INSIDE CORNER LAYOUT - 135+ DEG.
1 1/2" = 1'-0"



① FENCE - INSIDE CORNER LAYOUT - 90-134 DEG.
1 1/2" = 1'-0"

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<input type="checkbox"/> 06.17.2016	
<input type="checkbox"/> CONSTRUCTION SET	

Rancho Mirage Community Park Amphitheater Fence

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SHEET NUMBER:
A-3.1

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SECTION 051213 - ARCHITECTURALLY EXPOSED STRUCTURAL STEEL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes architecturally exposed structural-steel (AESS) enclosure fence assemblies and gates.

B. Related Requirements:

- 1. Section 323119 - Decorative Metal Fences and Gates
2. Structural Drawing Specifications including:
a. Cast-in-Place Concrete
b. Reinforcing Steel
c. Structural Steel

1.3 DEFINITIONS

A. AESS: Structural steel designated as "architecturally exposed structural steel" or "AESS" in the Contract Documents.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

A. Shop Drawings: Show fabrication of AESS components.

- 1. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
2. Include embedment Drawings.
3. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Show backing bars that are to be removed and supplemental fillet welds where backing bars are to remain. Indicate grinding, finish, and profile of welds.
4. Indicate special tolerances and erection requirements.

B. Samples: Submit Samples of AESS to set quality standards for exposed welds.
1. Steel angle, minimum 8 inches in length, crossed with another steel angle, approximately 4 inches in length, welded to its side at a 90-degree angle with a continuous fillet weld and with weld ground smooth and blended. Refer to detail 10A-3.0.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and fabricator.

1.7 QUALITY ASSURANCE

A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD, or is accredited by the IAS Fabricator Inspection Program for Structural Steel (AC 172).

B. Installer Qualifications: A qualified installer who participates in the AISC Quality Certification Program and is designated an AISC-Certified Erector.

C. Mockups: Build mockups of AESS to set quality standards for fabrication and installation.

- 1. Build mockup of typical portion of AESS as shown on Drawings.
2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Use special care in handling to prevent twisting, warping, nicking, and other damage. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.

- 1. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.

1.9 FIELD CONDITIONS

A. Field Measurements: Where AESS is indicated to fit against other construction, verify actual dimensions by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 BOLTS, CONNECTORS, AND ANCHORS

A. Corrosion-Resisting (Weathering Steel), Tension-Control, High-Strength Bolt-Nut-Washer Assemblies: ASTM F 1552, Type 3, round-head assemblies, consisting of steel structural bolts with splined ends, heavy-hex carbon-steel nuts, and hardened carbon-steel washers.

2.2 FILLER

A. Filler: NOT PERMITTED. All exposed steel shall be weathering steel.

2.3 PRIMER

A. Primer: NOT PERMITTED. All exposed steel shall be weathering steel free of shop primer, mill, supplier, or shop applied primers and/or protective coating of any kind. Steel shall be raw.

2.4 FINISH

A. Finish: All exposed steel shall be weathering steel with a natural patina finish.

- 1. This steel shall be installed a raw state free of coatings, primers, markings and all other substances that will inhibit the steel from achieving a natural, uniform, weathered patina.

2.5 FABRICATION

A. Shop fabricate and assemble AESS to the maximum extent possible. Locate field joints at concealed locations if possible. Detail assemblies to minimize handling and to expedite erection.
B. In addition to special care used to handle and fabricate AESS, comply with the following:

- 1. Fabricate with exposed surfaces smooth, square, and free of surface blemishes including pitting, rust, scale, and roughness.
2. Grind sheared, punched, and flame-cut edges of AESS to remove burrs and provide smooth surfaces and edges.
3. Fabricate AESS with exposed surfaces free of mill marks, including rolled trade names and stamped or raised identification.
4. Fabricate AESS with exposed surfaces free of seams to maximum extent possible.
5. Remove blemishes by filing or grinding or by welding and grinding.
6. Fabricate with piece marks fully hidden in the completed structure or made with media that permits full removal after erection.

7. Fabricate AESS to the tolerances specified in AISC 303 for steel that is designated AESS.

8. Seal-weld open ends of hollow structural sections with 3/8-inch closure plates for AESS or as indicated on Structural Drawings.

C. Coping, Blocking, and Joint Gaps: Maintain uniform gaps of 1/8 inch with a tolerance of 1/32 inch for AESS.

D. Bolt Holes: Cut, drill, or punch standard bolt holes perpendicular to metal surfaces.

E. Holes: Provide holes required for securing other work to structural steel and for other work to pass through steel members.

- 1. Cut, drill, or punch holes perpendicular to steel surfaces.
2. Baseplate Holes: Cut, drill, mechanically thermal cut, or punch holes perpendicular to steel surfaces.
3. Weld threaded nuts to framing and other specialty items indicated to receive other work.

2.6 SHOP CONNECTIONS

A. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work, and comply with the following:

- 1. Assemble and weld built-up sections by methods that will maintain true alignment of axes without exceeding specified tolerances.
2. Use weld sizes, fabrication sequence, and equipment for AESS that limit distortions to allowable tolerances.
3. Provide continuous welds of uniform size and profile where AESS is welded.
4. Grind butt and groove welds flush to adjacent surfaces within tolerance of plus 1/16 inch, minus zero inch.
5. Remove backing bars or runoff tabs; back-gouge and grind steel smooth for AESS.
6. At locations where welding on the far side of an exposed connection of AESS occurs, grind distortions and marking of the steel to a smooth profile aligned with adjacent material.
7. Make fillet welds for AESS of uniform size and profile with exposed face smooth and slightly concave. Do not grind unless directed to correct unacceptable work.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify, with steel erector present, elevations of concrete-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.

- 1. Prepare a certified survey of bearing surfaces, anchor rods, bearing plates, and other embedments showing dimensions, locations, angles, and elevations.

B. Examine AESS for twists, kinks, warping, gouges, and other imperfections before erecting.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Provide temporary shores, guys, braces, and other supports during erection to keep AESS secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated.

- 1. If possible, locate welded tabs for attaching temporary bracing and safety cabling where they will be concealed from view in the completed Work.

3.3 ERECTION

A. Set AESS accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.

- 1. Erect AESS to the tolerances specified in AISC 303 for steel that is designated AESS.

B. Do not use thermal cutting during erection.

3.4 FIELD CONNECTIONS

A. Weld Connections: Comply with requirements in "Weld Connections" Paragraph in "Shop Connections" Article.

- 1. Remove backing bars or runoff tabs; back-gouge and grind steel smooth for AESS.
2. Remove erection bolts in AESS, fill holes, and grind smooth.

3.5 FIELD QUALITY CONTROL

A. Architect will observe AESS in place to determine acceptability relating to aesthetic effect.

3.6 REPAIRS AND PROTECTION

A. Remove welded tabs that were used for attaching temporary bracing and safety cabling and that are exposed to view in the completed Work. Grind steel smooth.

END OF SECTION 051213

SECTION 323119 - DECORATIVE METAL FENCES AND GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
1. Decorative steel fences.
2. Swing gates.

B. Related Requirements:

- 1. Section 051213 - Architecturally Exposed Structural Steel
2. Structural Drawing Specifications including:
a. Cast-in-Place Concrete
b. Reinforcing Steel
c. Structural Steel

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.
B. Shop Drawings: For gates. Include plans, elevations, sections, details, and attachments to other work.

C. Samples: For each fence material and finish specified.

- 1. Provide Samples 12 inches in length for linear materials.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

B. Mockups: Build mockups to verify selections made under sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.

- 1. Include 10-foot length of fence complying with requirements.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Lightning-Protection System: Maximum grounding-resistance value of 25 ohms under normal dry conditions.

2.2 DECORATIVE STEEL FENCES

A. Architectural Steel Fences: Fences made from steel angles and HSS tube shapes.

B. Posts: Steel shapes as indicated on Drawings.

- 1. Fence Panel Posts: 3 by 2 by 3/16 inches steel angle.
2. Swing Gate Posts: HSS 6 by 6 by 1/2 inches steel tube with welded cap.

C. Horizontal Gussets:

- 1. Steel Angle: 3 by 2 by 3/16 inches steel angle; angle orientation as shown on Drawings.

D. Pickets: 3 by 2 by 3/16 inches steel angle; angle orientation as shown on Drawings.

- 1. Pickets extend vertically in a comb fashion. Tops of pickets shall be level with adjacent pickets except where panel elevations step vertically due to grade requirements.
2. Picket Spacing: 3-1/2 inches clear, maximum as indicated on Drawings.

E. Signage Panels: Custom design as indicated on Drawings.

- 1. Perforated Metal Sheet: 11 gauge nominal thickness, uncoated A606-4 steel sheet, perforated; perforations 0.127 inch round, with 7/32 inch stagger, 30 percent open.
2. Fasteners: Steel rivets as indicated on Drawings.

F. Fabrication: Fabricate fence into panels and field weld to steel angle fence posts as detailed on Drawings.

G. Finish Exposed Welds: Finish per requirements of Section 051213 Architecturally Exposed Structural Steel.

H. Steel Finish: All exposed steel shall be weathering steel with a natural patina finish.

- 1. This steel shall be installed a raw state free of coatings, primers, markings and all other substances that will inhibit the steel from achieving a natural, uniform, weathered patina.

2.3 SWING GATES

A. Gate Configuration: Double leaf.

B. Gate Frame Height: As indicated on Drawings.

C. Gate Opening Width: As indicated on Drawings.

D. Steel Frames and Bracing: Fabricate members from HSS rectangular steel tubing: 3 by 2 by 3/16 inches and 3 by 3 by 3/4 inches as indicated on Drawings.

E. Frame Corner Construction: Welded.

F. Horizontal Gusset: 3 by 2 by 3/16 inch horizontal steel angle; provide as indicated on Drawings.

G. Picket Size, Configuration, and Spacing: Comply with requirements for adjacent fence and as indicated on Drawings.

H. Hardware: Latches permitting operation from both sides of gate, hinges, and keepers for each gate leaf more than 5 feet wide. Provide center gate stops and cane bolts for pairs of gates. Fabricate latches with integral eye openings for padlocking; padlock accessible from both sides of gate.

- 1. Padlocks and chains shall be provided by the City.

I. Hinges: BHMA A156.1, Grade 1, heavy duty, suitable for exterior use.

- 1. Function: 39 - Full surface, triple weight, antifriction bearing.
2. Material: Wrought steel, forged steel, cast steel, or malleable iron; raw.

J. Cane Bolts: Provide for inactive leaf of pairs of gates. Fabricated from 3/4-inch-diameter, round steel bars, hot-dip galvanized after fabrication. Finish to match gates. Provide steel pipe sleeves to receive cane bolts in both open and closed positions.

K. Finish exposed welds to comply with NOMMA Guideline 1, Finish no. 1.

L. Steel Finish: All exposed steel shall be weathering steel with a natural patina finish.

- 1. This steel shall be installed a raw state free of coatings, primers, markings and all other substances that will inhibit the steel from achieving a natural, uniform, weathered patina.

2.4 STEEL AND IRON

A. Standards: As specified on Structural Drawing Specifications for:
1. Plates, Shapes, and Bars and Angle Pickets
2. Tubing
3. Uncoated Perforated Steel Sheet: cold-rolled steel sheet, ASTM A 1008/A 1008M, Structural Steel, Grade 50.

2.5 MISCELLANEOUS MATERIALS

A. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

B. Concrete: Normal-weight, air-entrained, ready-mix concrete complying with requirements in "Cast-in-Place Concrete" with a minimum 28-day compressive strength as indicated on Drawings.

C. Nonshrink Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M and specifically recommended by manufacturer for exterior applications.

2.6 GROUNDING MATERIALS

A. Grounding Conductors: Bare, solid wire for No. 6 AWG and smaller; stranded wire for No. 4 AWG and larger.

- 1. Material above Finished Grade: Copper.
2. Material on or below Finished Grade: Copper.
3. Bonding Jumpers: Braided copper tape, 1 inch wide, woven of No. 30 AWG bare copper wire, terminated with copper ferrules.

B. Grounding Connectors and Grounding Rods: Comply with UL 467.

2.7 STEEL FINISHES

A. Steel Finish: All exposed steel shall be weathering steel with a natural patina finish.

- 1. This steel shall be installed a raw state free of coatings, primers, markings and all other substances that will inhibit the steel from achieving a natural, uniform, weathered patina.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, pavement work, construction layout, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.3 DECORATIVE FENCE INSTALLATION

A. Install fences by setting posts as indicated and fastening infill panels to posts.

B. Footing Excavation: Excavate continuous footing in firm, undisturbed soil. Excavate trench as required to accommodate post footings indicated on Drawings. Excavate adjacent to existing shotcrete walls with care and caution so as not to damage or disturb existing waterproofing and sub-surface drainage systems. Damage, displacement or destruction of these systems shall be restored to previous working order by the Contractor at the Contractor's expense.

C. Bracket Angle at Shotcrete Walls: Install steel bracket angles fastened to existing shotcrete walls as indicated on Drawings. Angle size, location, spacing, embedment, epoxy anchorage requirements and welding requirements shall be as indicated on Drawings.

D. Post Setting: Set posts in concrete at indicated spacing.

- 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
2. Concrete Fill: Place concrete around posts and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.
a. Concealed Concrete: Top 2 inches below grade as indicated on Drawings to allow covering with surface material. Slope top surface of concrete to drain water away from post.
3. Posts Set in Concrete: Extend post to within 6 inches of specified excavation depth, but not closer than 3 inches to bottom of concrete.
4. Space posts uniformly as indicated on Drawings and as necessary to accommodate grade changes.

3.4 GATE INSTALLATION

A. Install gates level, plumb, and secure for full opening without interference. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

B. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at grounding location.

C. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.

D. Connections: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metal in direct contact are galvanically compatible.

- 1. Use electroplated or hot-dip-coated materials to ensure high conductivity and to make contact points closer in order of galvanic series.
2. Make connections with clean, bare metal at points of contact.
3. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.
4. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.

3.5 GROUNDING AND BONDING

A. Fence Grounding: Install at maximum intervals of 1500 feet except as follows:

- 1. Fences within 100 Feet of Buildings, Structures, Walkways, and Roadways: Ground at maximum intervals of 750 feet.

a. Gates and Other Fence Openings: Ground fence on each side of opening.

- 1) Bond metal gates to gate posts.

B. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at grounding location.

C. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.

D. Connections: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metal in direct contact are galvanically compatible.

- 1. Use electroplated or hot-dip-coated materials to ensure high conductivity and to make contact points closer in order of galvanic series.
2. Make connections with clean, bare metal at points of contact.
3. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.
4. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.

3.6 ADJUSTING

A. Gates: Adjust gates to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, misalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.

B. Lubricate hardware and other moving parts.

END OF SECTION 323119



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Rancho Mirage Community Park Amphitheater Fence

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