

## NMCAP L-14-2005 SANTA FE PARK SHADE STRUCTURES

conjunction with submission of Notice of Substantial Completion.

- C. Execute and assemble warranties from subcontractors, suppliers, and manufacturers.
- D. Provide Table of Contents and assemble in three ring binder with a hard durable plastic cover. Internally subdivide the binder contents with permanent page dividers, with tab titling clearly typed under reinforced laminated plastic tabs.
- E. For items of work delayed beyond date of Substantial Completion, provide updated warranty submittal within ten days after acceptance, listing date of acceptance as start of warranty period.

### **1.3 CERTIFICATES OF INSPECTION AND COMPLIANCE**

- A. For inspections throughout the construction period required by regulatory agencies, obtain and maintain certificates issued to show compliance.
- B. Assemble certificates and any formal written evidence of regulatory compliance in three ring binder with table of contents and submit to Design Professional prior to or in conjunction with submission of Notice of Substantial Completion.
- C. Certificate of Occupancy: Prior to Substantial Completion, obtain from authorities having jurisdiction Certificate of Occupancy. Submit with Notice for Substantial Completion.

### **1.4 INSURANCE INFORMATION**

- A. Submit prior to or in conjunction with submission of Contractor' s request for Substantial Completion information regarding insurance

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including change over requirements and insurance extensions.

### **1.5 MAINTENANCE TOOLS**

- A. Provide all special tools, instruments, and other implements required for the functional operation and maintenance of equipment, systems, and other components installed as part of this project. Include screw drivers, crescent wrenches, pliers, and Allen wrenches as well as more unique and atypical tools.
- B. Tools shall be as provided or recommended by manufacturers of installed equipment and systems. Types and sizes shall be as specifically required for installed products.
- C. Tools shall be available and their use demonstrated during a training session coordinated by the Contractor with the Owner's Representative and Owner end users.
- D. Prior to or concurrent with Contractor's request for Substantial Completion, deliver maintenance tools to Owner's Representative. Prepare inventory of tools provided and obtain receipt from Owner's Representative.

### **1.6 EXTRA MATERIALS**

- A. Provide spare parts and maintenance materials in quantities specified in individual sections.
- B. Extra materials shall be produced by the same manufacturer of and compatible with the installed products.
- C. Prior to or concurrent with submission of Notice of Substantial Completion deliver extra materials in unopened containers to Owner's

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representative at designated storage area at project site and place in location as directed.

D. During one year correction period:

1. Extra materials may be used by Contractor to replace expendable and normally worn parts.
2. Extra materials used by Contractor for replacement of defective products shall be replaced at no additional cost to Owner.

### **PART 2 - PRODUCTS**

Not Used.

### **PART 3 - EXECUTION**

Not Used.

**END OF SECTION**

**SECTION 02000**

**Demolition**

1. **GENERAL PROVISIONS**

The provisions of Division 1 shall apply to the work of this section.

2. **WORK INCLUDED**

Furnish all labor, materials, tools and equipment required to perform the work of this section as shown on the Drawings and/or as specified herein. In general, the work shall include but not necessarily be limited to the following:

- a. Obtain and pay for all permits necessary to perform the work of this section.
- b. Erect all temporary barriers required by the Construction Industries Division (CID) for the protection of the general public, utility structures and equipment, adjoining property, and existing trees.
- c. Removal of all debris resulting from demolition operations and all existing debris throughout entire space.
- d. Demolition of all playground equipment, footings and associated features as designated or implied in the Drawings or Specifications.
- e. Locate demolition equipment at the site and remove materials so as not to damage existing equipment.
- f. Do not burn combustible material on Owner' s property.
- g. Control air pollution caused by dust and dirt; comply with governing regulations.
- h. Plug and/or disconnect all utility services that are to be demolished or

abandoned.

- i. Removal and protecting of items indicated to be saved undamaged for reuse.

3. **RELATED WORK SPECIFIED UNDER OTHER SECTIONS**

The Contractor will be required to coordinate the related work of other sections with the work of this section and be responsible for the timely and expeditious performance of same.

4. **VERIFYING CONDITIONS**

- a. Examine all drawings covering the work of this section and refer to all other drawings, information and features including plats and utilities records which may affect the work of this section or require specific coordination.
- b. Before starting any work, examine existing and any underlying conditions, perform underground utility location, spot overhead utilities and verify all relevant dimensions in the area which the work of this section is to be performed.
- c. Report in writing to the Owner' s Representative, any and all conditions which may interfere with or otherwise affect or prevent the proper execution and work of this section. Do not commence any work until any and all conditions have been corrected by the trade or traded responsible.
- d. Failure to notify the Owner' s Representative of unsatisfactory conditions will be construed as an acceptance of all conditions.
- e. Execution of work of this section constitutes acceptance of the base or adjoining work and other conditions as satisfactory in every respect

and later claims of defects in such cases will not be allowed.

5. **GENERAL REQUIREMENTS**

- a. The Contractor's particular attention is directed to existing utilities at the site, including water mains, sewers, manholes, telephones, etc., which must be protected as part of the work of this section.
- b. The Contractor shall accept the premises as he finds them and shall clear the site features, as herein specified. The Owner assumes no responsibility for the condition of the buildings and structures on the premises covered by these Specifications, nor their continuance in the condition existing at the time of the award of the Contract.
- c. All work including removal of debris shall be done in a careful manner so as not to damage any existing work to remain: **T h e s e f e a t u r e s** shall be kept clean and every effort shall be made toward protecting these from damage due to construction.

6. **PROTECTION OF EXISTING WORK**

- a. Provide temporary enclosures, fencing guards, railings, etc., including temporary sidewalk shed as necessary for adequate protection of workmen and for protection of the public from injury. Apply protections to adjacent property as required to maintain safe conditions. Comply with all New Mexico Building Department requirements for protection of the general public.
- b. During the course of demolition, the work area grounds shall be wet down as necessary to minimize dust.

7. **PROTECTION OF ADJACENT STRUCTURES AND PROPERTY**

- a. Demolition and the removal of debris shall not infringe upon adjoining properties.

- b. During the demolition near any sidewalks, temporary routing must be provided from adjoining properties to and around the construction site.

8. **MAINTAINING TRAFFIC**

The Contractor shall not close or obstruct streets, sidewalks, or passageways. The Contractor shall provide or maintain at his own expense all lights, barriers, public and pedestrian protection, etc., that may be required by good practice and local law.

9. **UTILITY LINES**

The Contractor shall take every precaution to locate and identify existing utility and irrigation features prior to commencing work. Upon uncovering or damaging any known or unforeseen utilities or irrigation features, the Contractor shall immediately take any necessary safety precautions, appropriate stop loss measures, notify utility authorities and then contact and the Owner' s representative to document the occurrence and to initiate any other necessary action.

10. **FEES, PERMITS, ETC.**

The Contractor shall at his own expense, secure and pay for all permits, street cuts, pavement restoration and any other fees necessary and/or required by local laws and any agency having jurisdiction.

11. **CARTING AND REMOVING OF DEBRIS AND CLEANUP**

- a. All debris, resulting from the operations and any other material found on premises under this Contract, shall be immediately removed from the site and shall not be stored or permitted to accumulate on the site. All removed material shall be disposed of

into containers in accordance with all related laws and regulations.

- b. Upon completion of the work under this contract, the Contractor shall remove all tools, equipment, materials, apparatus, etc., and shall leave the premises broom clean, neat and orderly, to the entire satisfaction of the Owner. Contractor shall clean any adjacent structure and property that have been affected by his work.

END OF SECTION 02 0000

**SECTION 02 1000**

**SIDEWORK, EXCAVATION, FILLING & GRADING**

1. **GENERAL PROVISIONS**

The provisions of the General Conditions of the Contract, Section 1 and 02 0000 shall apply to the work of this Section.

2. **SCOPE**

Furnish all labor, materials, equipment and appliances necessary or required to perform and complete all excavating, filling and grading work as indicated by the Drawings and/or as specified herein, and as necessary for the proper execution of all related work for the entire project, including, but shall not necessarily be limited to the work outlined in the following sections.

3. **WORK INCLUDED**

- a. Examination of existing conditions.
- b. Excavating, filling, and grading, including rock excavations within the area of work and including excavation for such items as footings, piers, etc.
- c. Protecting all existing items to remain and all adjoining properties and pedestrian and vehicular ways.

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- d. All temporary shoring and bracing that may be required to maintain safe conditions.
- e. Trenching, bedding and backfilling.
- f. Dewatering.
- g. Furnishing additional fill, if required, and all exterior grading.
- h. Removal or relocation on site, as approved by the Owner's Representative, of all dirt, debris, and excess materials resulting from the work itemized herein.
- i. Excavation and subgrade preparation of all footings.
- j. Final cleanup.
- k. All other items necessary to make the work of this Section complete.

#### 4. **EXCAVATION AND GRADING**

- a. Excavation shall include the removal of all materials of every description including rock throughout the site. No separate payment will be made for rock excavation or trench rock excavation or for unstable material, hardpan, or old foundation walls, footings, slabs, or other material encountered within contract limits in performance of work under this Section. All costs in connection with this Section shall be included in the

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contract price, including excavation and disposal of rock and unsuitable material and replacement with acceptable material.

- b. Excavation shall not be done below the grades shown on the Drawings and as described herein unless so directed by the Owner' s Representative.
- c. Should Contractor, without authorization, excavate more than shown on the Drawings or specified, such excess excavation will not be paid for as extra work, and the Contractor shall refill up to bottom of footing levels as dictated by the Drawings with concrete of the same strength as the footing.
- d. New structures, footings and foundations shall be excavated to the lines, grades and elevations shown on the Drawings. Pits shall be of sufficient size to permit the placing and removal of forms for the full width and length of structure, footings and foundations, as shown on the drawings. The dimensions and elevations of footing excavations indicated on the Drawings are approximate only, and at the discretion of the Owner' s Representative, may be modified, when deemed necessary to secure satisfactory foundations.
- e. All footings excavations shall be hand-trimmed. Rock bottoms shall be trimmed and be solid.
- f. The Contractor shall do all bracing, sheathing and shoring necessary to perform and protect all excavation as indicated in the Drawings, as required for safety, or to conform to governing

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laws. No extra payment will be made for any bracing, sheathing or shoring to elevations shown on the Drawings or specified.

### 5. **ROCK EXCAVATION**

- a. Rock excavated below the level of bottom surface of structures without the authorization, shall be replaced with concrete at the Contractor' s expense. Blasting shall not be a permitted means of rock excavation.

### 6. **FILLING AND BACKFILLING**

- a. The Contractor, unless directed otherwise by the Owner' s Representative, shall backfill where required, to bring the surface of the compacted material to required levels below the finished grade. Playground subgrades shall be fine graded to required levels to allow for required safety surfacing fill depths.
- b. Prior to placement of any new fill, the original ground surface shall be thoroughly compacted.
- c. All fill material shall be approved granular engineered fill, well mixed, qualified base course material of uniform material and evenly distributed composition, or other compactable soil free from rubbish, debris, sod, roots, organic or artificial material of any kind. All fill material shall be well graded between its maximum and minimum particle sizes. Fill shall be obtained by the Contractor from a source of his own choice, but approved by the Owner' s Representative. Acceptability of the material will

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be determined at the job site. Material excavated from the site will not be acceptable as fill, unless it meets the above specifications. Ungraded rock shall not be used to backfill.

- d. All fill material shall be compacted with approved vibratory power rollers, as specified herein. Compaction shall be continued until the fill is compacted to its maximum density. At least five passes shall be made over each 8" layer with the compacting equipment. If adequate compaction cannot be obtained with a given machine, the Contractor shall furnish and operate a more satisfactory unit without additional charge. The Contractor shall obtain the approval of the Owner's Representative as to the type of equipment to be used, before bringing the equipment on the site.
- e. Frozen material shall not be placed in fills, nor shall fill be placed on material frozen to depth of over 3" .

### 7. **BACKFILL ADJACENT TO STRUCTURES**

Symmetrical backfill loading shall be maintained. Special care shall be taken to prevent any wedging action or eccentric loading upon or against the structure, and all slopes bounding or within the area to be backfilled shall be stepped or serrated to prevent such wedging action. During backfilling operations, and in the formation of embankments, care shall be exercised that the equipment used

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will not overload or damage structures in passing over and compacting these fills.

### 8. **DISPOSAL**

All excavated material not suitable for filling, backfilling or topsoil, including all broken-up concrete and masonry, where not required for such purposes, shall be removed from the premises. Excess suitable material shall likewise be removed or relocated with approval from the Owner' s Representative.

### 9. **REMOVAL OF WASTE**

The Contractor shall provide and operate pumps and other equipment necessary to drain and keep all excavations; trenches and foundations dry during the execution of the work. The drainage water shall be disposed of into sewer in a manner approved by the Owner' s Representative. Pumping shall proceed immediately after collection of any water and shall continue until such water is removed.

**END OF SECTION**

**SECTION 03000**

**Concrete**

**PART 1 - GENERAL**

**1.1 GENERAL CONDITIONS:**

The provisions of Section 1 shall apply to this section.

**1.2 SCOPE:**

The work of this section consists of furnishing all labor, materials, equipment, and appliances necessary or required to perform and complete all concrete work as shown on the Drawings, as specified herein, and as necessary for the proper execution of all related work for the entire project, but shall not necessarily be limited to the work outlined in the following sections.

**1.3 WORK INCLUDED:**

- A. Provide new concrete footings as indicated.
- B. Formwork of every description as required by job.
- C. Finishing of footings as applicable.
- D. Perform all testing of concrete and laboratory tests as may be required by the CID & all applicable codes.
- E. All other labor and materials reasonably to be inferred as needed to make all work in this section complete.

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**1.4 WORK OF OTHER SECTIONS:**

- A. Demolition
- B. Rough Carpentry

**1.5 VERIFYING CONDITIONS:**

- A. Examine all Drawings covering the work of this section and refer to all other Drawings, including mechanical and electrical drawings that may affect the work of this section or require coordination by same.
- B. Report in writing, to the Owner' s Representative, any and all conditions that may interfere with or otherwise affect or prevent the proper execution and completion of the work of this section. Do not commence any work until any and all such prevent the proper execution and completion of the work of this section. Do not commence any work until any and all the trade or trades responsible have corrected such conditions.

**1.6 SHOP DRAWINGS AND SAMPLES:**

Submit for approval samples of materials, test reports, records of all pertinent information, affidavits, certificates, etc., as required by the General Conditions or requested by the Owner' s Representative.

**PART II-PRODUCTS:**

**2.1 MATERIALS:**

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- A. Cement – Portland Cement, meeting all requirements for ASTM C-150 Type 1 or 2 Cement.
- B. Sand – Fine aggregate shall consist of sand, stone screening other inert material with similar characteristics, or a combination thereof, having clean, hard, strong, durable uncoated grains and free from injurious amounts of dust, lumps, loam, or other deleterious substances.
- C. Aggregates: ASTM C 33, and the following:
  - 1. Coarse Aggregates: Gravel or crushed rock; clean and uncoated processes aggregate containing no clay, mud, loam, or foreign matter, size 467, unless otherwise shown or specified. Blast furnace slag, weighing not less than 70 lbs. Per cu. Ft. when determined in compliance with ASTM C 29, may be used for coarse aggregate at Contractor' s option.
  - 2. Fine Aggregate: Clean, sharp, natural or artificial sand, free from loam, clay lumps, or other deleterious substances; fineness modulus not less than 2.5 nor more than 3.0, unless otherwise acceptable.
  - 3. Provide all aggregates from a single source, and of accepted materials, unless otherwise permitted by the Owner' s Representative. Use natural aggregates that, when subjected to 5 cycles of the sodium sulfate soundness test of ASTM C 88, have a weight loss of not more than 15%.

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4. 3/4" aggregate mix is required in areas where no pumping is necessary. 3/8" aggregate mix is allowed where pumping is required and shall include fiber reinforcing added at the plant. Concrete strength and other required characteristics shall not be otherwise modified.

D. Water – Water for concrete shall be clean and free from oil, mold, alkali, organic matter or other deleterious substances and shall be potable.

E. Air – Exterior grade concrete shall be 5-7% air entrained.

### **PART III – EXECUTION:**

#### **3.1 CONCRETE MIXING:**

A. General: Concrete may be mixed at batch plants or it may be mixed as specified herein. Batch plants must comply with the requirements of ACI 614, with sufficient capacity to produce concrete of the specified qualities and quantities required to meet the construction schedule.

B. Job Site Mixing: Mix all materials for concrete in an acceptable drum type batch machine mixer. For mixers of one cubic yard or smaller capacity, continue mixing at least 1 & 1/2 minutes of mixing time by 15 seconds for each additional cubic yard, or fraction thereof.

Do not exceed the catalog rating or nameplate capacity for the total volume of materials used per batch. Equip the mixer with automatic controls, or semi-automatic controls if acceptable, for proportioning materials, and the proper measured quantities. Do not exceed 30 minutes total elapsed time between intermingling.

- C. Ready – mix Concrete: Comply with the requirements of ASTM C 94, and as herein specified, provided the quantity and rate of delivery will permit unrestricted progress of the work in accordance with the placement schedule. During hot weather, or under conditions contributing to rapid setting of concrete, a shorter mixing time than specified in ASTM C 94 may be required as specified below. Proposed changes in mixing procedures, other than herein specified, must be accepted by the Owner's Representative before implementation.

### **3.2 PLACING OF CONCRETE:**

- F. Concrete shall not be placed until excavations, bearing soil and forms are clear of all debris and water, and until inspection and approval of forms and reinforcing steel by building officials as required and by the Owner's Representative. All reinforcement sleeves, anchor bolts and similar items, and all mechanical and electrical installations within or under concrete work shall have been installed, inspected, and approved prior to placing or concrete.
- G. All forms must be absolutely clean before starting concreting.
- H. All concrete must be placed as soon as possible after mixing and thoroughly vibrated, rodded, spaded, or tamped in place.

All concrete shall be placed with the aid of suitable tools or vibrating equipment. The "vibration" shall be applied directly to the concrete. The vibration shall be sufficient to cause flow or settlement of the concrete into place, without separation of fines.

- I. When depositing concrete at temperatures below 40°F., the concrete shall have a temperature of at least 50°F., but not more than 70°F. for not less than 72 hours after placing, or until the concrete has thoroughly hardened. When necessary, concrete materials shall be heated before mixing; no frozen material, or materials containing ice or snow shall be used.

### 3.3 **CURING:**

- A. Concrete shall be protected adequately from loss of surface moisture by utilizing surface wetting, curing compound application, blanketing and/or polyethylene sheet goods encapsulation and shall be protected from damage by sun, rain, flowing water, frost, snow or mechanical means for a period of at least 7 days after placing; curing operations shall commence after the concrete has attained its initial set but not later than ten hours after placing.

### 3.4 **FORMING & PREPARATION:**

- A. Provide and install all formwork and suitable shoring for posts to insure correct positioning is maintained throughout the curing period. Provide suitable construction joints as appropriate.

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- B. Use approved method to support reinforcing materials in place prior to pour to insure proper final placement within the cured footing.
- C. Provide six inches of minimum thickness of approved well-compacted porous granular fill under new footings unless existing approved granular material is found at the site in the areas directly below the footings.
- D. The bottom of footing shall be completely free of debris and loose prior to pour.
- E. The post shall be installed to insure solid fill within the post cavity to the design burial depth.

### **3.5 WORK IN CONNECTION WITH OTHER TRADES:**

- A. The Contractor shall coordinate this work with any other phases of the Work and with other associated trades.

### **3.6 CONCRETE FINISHING:**

- A. Perform concrete finishing using machine or hand methods as required.
  - 1. After striking off and consolidating concrete, smooth the surface by screening and floating, use hand methods only where mechanical floating is not possible. Adjust the floating to compact the surface and produce a uniform surface.
  - 2. No rough or uneven concrete shall be exposed to above soil grade conditions. Footings shall be

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covered to a depth of 6" with tamped soil or left smooth and even below the required safety surfacing depth.

- B. All cured concrete surfaces shall be without voids. Where honeycombs appear, the loose aggregate shall be removed and the voids filled with cement mortar. After removal of forms, bring rough surfaces to smoothness by rubbing and troweling.
- C. Repair all existing concrete walls, pavements, steps, etc., at all locations shown on the drawings and to the extent required by the actual field conditions.

### 3.7 **CUTTING AND PATCHING**

- A. All existing damaged concrete work or damaged as a result of demolitions and removals shall be patched and repaired as part of the work of this section.
- B. Cutting and patching necessary to the proper fitting and completion of the work of other trades and sections shall be performed as part of the work of this section.
- C. Cutting shall include the removal of whole sections, raking out cracks, replacing missing work, and generally preparing existing surfaces for proper completion.
- D. Patching shall be with an approved mix for the work intended with color blended to approximate existing finishes.

### 3.8 **CLEAN-UP**

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- A. Remove all rubbish from installation of the work of this section. Clean all adjoining surfaces of smudges, dirt or grime resulting from same. Repair and or replace materials and finishes damaged as a result of this installation.
- B. Remove and dispose of all excess and/or unused concrete in a manner approved by the Owner's Representative.

### 3.9 **GUARANTEE**

All work performed under this section shall be guaranteed as provided under the general conditions.

**END OF SECTION**

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**SECTION 03100**

**CONCRETE FORMWORK**

**PART 1 - GENERAL**

**1.1 DESCRIPTION OF WORK:**

A. Included in this section are requirements for the construction, installation and removal of concrete formwork.

**1.2 RELATED WORK SPECIFIED ELSEWHERE:**

Work related to work specified in this section includes but is not limited to the following.

- |  |                 |
|--|-----------------|
| A. Sitework, Excavation, Filling and Grading | Section 02_1000 |
| B. Concrete Reinforcement                    | Section 03_2000 |
| C. Cast-In-Place Concrete                    | Section 03_0000 |

**1.3 QUALITY ASSURANCE:**

- A. Conform to the latest edition of ACI 347 "Recommended Practices for Concrete Formwork" .
- B. Notify Owner' s Representative before placing steel or concrete.

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1. Forms and formwork are subject to inspection by the Owner' s Representative as indicated in related sections of the specifications.
2. Damaged or improperly installed formwork will be rejected and shall be replaced.

### **1.4 JOB CONDITIONS:**

- A. Work sequence: Cooperate with other trades so that all necessary inserts, sleeves, anchors, and any other miscellaneous embedded metal items are properly installed prior to placement of concrete.

### **1.5 SUBMITTALS:**

- A. Manufacturer' s literature for all prefabricated forms.

## **PART II PRODUCTS:**

### **2.1 GENERAL:**

#### A. Wood Forms:

1. Unexposed concrete surfaces: No. 2 common or better.
2. Exposed concrete surfaces: New plywood linings or new plywood formings. Used plywood in good condition may be utilized if approved by Owner' s Representative.

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- B. Metal Forms: Capable of shaping concrete to required dimensions without undue dents and deformations and as approved by Owner' s Representative.
- C. Concrete column/footing forms: Round cast-in-place concrete column/footing forms as approved by Owner' s representative.
- D. Form Oil: Non-staining mineral oil.
- E. Form ties: Commercial product, length as required, fixed or adjustable type manufactured to leave no steel within 1 inch of surface of concrete after removal.

### **PART III EXECUTION:**

#### 3.1 **INSTALLATION**

- A. Install in accordance with the latest edition of ACI 347.
- B. Construct forms to give shapes and dimensions indicated and to give resultant sharp, true lines to exact intent of design indicated or detailed.
- C. Install forms tight, rigid and adequately braced to prevent deformation under load.
- D. Chamfer exposed corners and edges to  $\frac{3}{4}$  inch or as indicated on the drawing.

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- E. Form all vertical surfaces including sides of footing. Hold a straight, true vertical face.
- F. Do not use any form treatments containing ingredients that may stain or otherwise injure the concrete or prevent a good bond for subsequent coatings, if any.
- G. Keep all forms thoroughly clean.

### 3.2 **CONCRETE INSERTS:**

Ensure that all concrete inserts are properly placed and securely anchored against displacement during pour.

### 3.3 **REMOVAL OF FORMS:**

- A. Non-Supportive Formwork: Formwork not supporting weight of concrete, such as sides of slabs, beams, walls, columns and similar parts of the work may be removed 48 hours after placing concrete, provided concrete is sufficiently hard to not be damaged by form removal operations, and provided curing and protection operations are maintained.
- B. Supportive Formwork: Formwork supporting weight of concrete, such as beam soffits, joint, slab and other structural elements shall not be removed in less than 14 days or until concrete has attained 85% of design compressive strength at 28 days.  
Determine potential compressive strength of in-place concrete by

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testing field-cured specimens representative of location of members.

C. Facing Material: Form facing material may be removed 48 hours after placement of shores and other vertical supports have been arranged to permit removal of form facing material without loosening or disturbing shores and supports.

D. Form Removal:

1. Obtain Owner' s Representative' s approval before removal.
2. Remove forms with care, in a manner that will not jeopardize the safety of the structure.

F. Unauthorized Removal: Damage caused by premature and unauthorized removal shall be corrected and repaired at no cost to the Owner.

### 3.4 **FIELD INSPECTION:**

A. Notify Owner' s Representative and request field inspection and approval 24 hours in advance for the following:

1. Form installation.
2. Placement of steel and inserts.

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3. Form removal.

- B. Do not proceed with next phase until Owner's Representative's approval has been obtained in each case.

END OF SECTION

SECTION 03 2000

CONCRETE REINFORCING

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Concrete steel reinforcement.

B. Related Requirements:

1. General Conditions of the Contract
2. Refer to individual specification sections for other related information and submittal requirements related to a specific product, system, or procedure.

1.02 REGULATORY REQUIREMENTS

- A. Fabrication and placement of reinforcing shall be in accordance with requirements of governing codes including IBC 2009, Chapter 19, Concrete.

1.03 REFERENCES:

A. American Society for Testing and Materials (ASTM):

1. ASTM A82 - Standard Specification for Steel Wire, Plain, for Concrete Reinforcement.
2. ASTM A184 - Standard Specification for Fabricated Deformed Steel Bar Mats for Concrete Reinforcement.
3. ASTM A185 - Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete.
4. ASTM A496 - Standard Specification for Steel Wire, Deformed, for Concrete Reinforcement.
5. ASTM A497 - Standard Specification for Steel Welded Wire Reinforcement, Deformed, for Concrete.
6. ASTM A615 - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement.
7. ASTM A706 - Standard Specification for Low-Alloy Steel Deformed and Plain Bars for Concrete Reinforcement.

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- B. American Concrete Institute (ACI) Publication:
  - 1. ACISP-66 – ACI Detailing Manual.
  - 2. ACI 318 – Building Code Requirements for Structural Concrete, as modified by CBC Sections 1903A and 1908A.
- C. American Welding Society (AWS):
  - 1. AWS D1.4 – Structural Welding Code – Reinforcing Steel.

### 1.04 SUBMITTALS

- A. Shop Drawings: Submit steel reinforcement Shop Drawings in accordance with ACI 315. Include assembly diagrams, bending charts and slab plans. Indicate lengths and location of splices, size and lengths of reinforcing steel.
- B. Closeout Submittals: Record exact locations of reinforcing that vary from Shop Drawings.

### 1.05 QUALITY ASSURANCE

- A. Comply with the following as a minimum requirement:
  - 1. Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice.
  - 2. American Welding Society (AWS).
  - 3. American Concrete Institute (ACI).
  - 4. IBC 2009, Chapter 19, Concrete.
- B. Source Quality Control: Refer to Division 01 Sections for general requirements and to the following paragraphs for specific procedures. Testing laboratory retained by the Owner shall select test Samples of bars, ties, and stirrups from the material at the Project Site or from the place of distribution, with each Sample consisting of not less than two 18 inch long pieces, and perform the following tests according to ASTM A615, or ASTM A706, as applicable:
  - 1. Identified Bars: If Samples are obtained from bundles as delivered from the mill, identified as to heat number, accompanied by mill analyses and mill test reports, and properly tagged with the identification certificate so as to be readily identified, perform one tensile and one bend test for each 10 tons or fraction thereof of each size of bars. Submit mill reports when Samples are selected.
  - 2. Unidentified Bars: When positive identification of reinforcing bars cannot be performed and when random Samples are obtained; perform tests for each 2.5 tons or fraction thereof, one tensile and one bend test from each size of bars.

## NMCAP L-14-2005 SANTA FE PARK SHADE STRUCTURES

- C. Certification of Welders: Shop and Project site welding shall be performed by welding operators certified by AWS.

### 1.06 DELIVERY, STORAGE AND HANDLING

- A. Avoid exposure to dirt, moisture or conditions harmful to reinforcing.
- B. Reinforcing steel bars, wire, and wire fabric shall be stored on the Project site to permit easy access for examination and identification of each shipment. Material of each shipment shall be separated for size and shape.

## PART 2 - PRODUCTS

### 2.01 GENERAL

- A. Provide reinforcing of sizes, gages and lengths indicated, bent to indicated shapes.

### 2.02 MATERIALS

- A. Steel Reinforcing Bars: ASTM A615, or ASTM A706 deformed grade 60 billet steel unless otherwise specified or indicated.
- B. Bars or Rod Mats: ASTM A184.
- C. Welded Wire Fabric for Reinforcement: ASTM A185.
- D. Tie Wire: ASTM A82, fully annealed, copper-bearing steel wire, 16 gage minimum.
- E. Chairs, Spacers, Supports, and Other Accessories: Standard manufacture conforming to ACI 315 fabricated from steel wire of required types and sizes. For reinforcement supported from grade, provide properly sized dense precast blocks of concrete.

### 2.03 FABRICATION OF REINFORCING BARS:

- A. Comply with CRSI Manual of Standard Practice for Reinforced Concrete Construction for fabrication of reinforcing steel.
- B. Bending and Forming: Fabricate bars of the indicated sizes and bend and form to required shapes and lengths by methods not injurious to materials. Do not heat reinforcement for bending. Bend bars No. 6 size and larger in the shop only. Bars with unscheduled kinks or bends are not permitted. Provide only tested and permitted bar materials.
- C. Welding: Provide only ASTM A706 steel where welding is indicated. Perform welding by the direct electric arc process in accordance with AWS D1.4 and specified low-hydrogen electrodes. Preheat 6 inches each side of joint. Protect joints from drafts during the cooling process; accelerated cooling is not

permitted. Do not tack weld bars. Clean metal surfaces to be welded of loose scale and foreign material. Clean welds each time electrode is changed and chip burned edges before placing welds. When wire brushed, the completed welds must exhibit uniform section, smooth welded metal, feather edges without undercuts or overlays, freedom from porosity and clinkers, and good fusion and penetration into the base metal. Cut out welds or parts of welds deemed defective, using chisel, and replace with proper welding. Prequalification of welds shall be in accordance with CBC requirements.

### PART 3 - EXECUTION

#### 3.01 INSTALLATION

- A. Bars shall be bent cold. Bars partially embedded in concrete shall not be field bent except as indicated on reviewed Shop Drawings.
- B. Before installation and just prior to placing concrete, clean reinforcing of loose scale, rust, oil, dirt and any coating that could reduce bond.
- C. Accurately position, install, and secure reinforcing to prevent displacement during the placement of concrete.
- D. Provide metal chairs to hold reinforcement the required distance above form bottoms. In beams and slab construction, provide chairs under top slab reinforcement as well as under bottom reinforcement. Space chairs so that reinforcement will not be displaced during installation. Provide metal spacers to secure proper spacing. Stirrups shall be accurately and securely wired to bars at both top and bottom. At slabs, footings, and beams in contact with earth, provide concrete blocks to support reinforcement at required distance above grade.
- E. Install and secure reinforcement to maintain required clearance between parallel bars and between bars and forms. Lapped splices shall be installed wherever possible in a manner to provide required clearance between sets of bars. Stagger lapped splices. Dowels and bars extending through construction joints shall be secured in position against displacement before concrete is installed and subsequently cleaned of concrete encrustations while they are still soft.
- F. Do not install reinforcing in supported slabs and beams until walls and columns have been installed to underside of slabs and beams or until construction joints have been thoroughly cleaned. Reinforcing shall be inspected before placement of concrete and cleaned as required.
- G. Use deformed bars unless otherwise indicated, except for spiral reinforcement.

#### 3.02 CLEAN UP

- A. Remove rubbish, debris and waste materials and legally dispose of off the Project site.

3.03 PROTECTION

- A. Protect the Work of this section until Substantial Completion.

END OF SECTION

**SECTION 13 31 23**  
**PRE-ENGINEERED SHADE STRUCTURES**

**PART 1 – GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Specification Sections, apply to this section.

**1.2 SUMMARY**

- A. The shade structure Vendor and/or Manufacturer shall be responsible for the design, engineering, fabrication, ordering and timely supply of all pre-engineered shade structure elements, members and hardware. The Contractor shall be responsible for installation, other materials required for the installation and all other work specified herein.

**1.3 SUBMITTALS**

1.3.1 Provided by the Vendor and/or Manufacturer:

- A. Provide proof of installed reference sites with structures for similar scope of project and installation that are engineered to IBC 2006 specifications. Include in reference list of structure dimensions with install dates and project locations.

## NMCAP L-14-2005 SANTA FE PARK SHADE STRUCTURES

- B. Provide a minimum of 13 fabric samples to demonstrate fabric color range and powder coat color selections. Also provide letter of authorization from fabric manufacture for use of fabric.
  
- C. Provide proof the shade structure manufacture meets all quality assurance items including;
  - 1. A list of at least 3 reference projects that have been installed a minimum of 8 years.
  - 2. Proof of General liability, Professional liability and umbrella insurance as per section 1.4 D
  - 3. Proof of \$6,000,000 bonding capacity.
  - 4. Proof of IAS (International Accreditation Service) certification as per section 1.4 E
  - 5. Proof of a Corporate Safety Program along with an Injury & Illness Prevention Program.
  - 6. Proof of an Annual Maintenance Inspection Program
  - 7. Proof of Corporate Quality Control Manual as per section 1.4F

### 1.3.2 Additional Submittals:

- A. Provide wet sealed structural engineering drawings and calculations.
  
- B. Provide fabric samples and powder coat colors for final order selection.

## **1.4 QUALITY ASSURANCE**

## NMCAP L-14-2005 SANTA FE PARK SHADE STRUCTURES

Erection is limited to firms with proven experience in construction of fabric shade structures and such firms shall meet the following minimum requirements. No substitutions shall be allowed for the following:

- A. A single prime Contractor shall erect all fabric shade structures in this scope.
- B. All bidders shall have at least 15 years experience in the installation of pre-engineered steel frame structures, with similar scope and a successful construction record of in-service performance.
- C. All bidders shall be able to provide proof, with bid submittal, of meeting insurance requirements pursuant to the Agreement between Owner and Contractor.
- D. All bidders shall be bonded and provide proof of a minimum bonding capacity pursuant to the Agreement between Owner and Contractor.
- E. The Contractor shall be licensed by the State of New Mexico under the GB-98 classification.
- F. All bidders must include warranty period service call services to assist in repairs as required to meet any deficiencies found under audit by a third party inspector or authorized City of Santa Fe Staff.

## **1.5 PROJECT CONDITIONS**

- A. Field Measurements: Verify layout information for shade structures shown on the Drawings in relation to the playground perimeter and existing structures. Verify locations by field measurements and as indicated in the Contract Documents prior to construction.

## **1.6 WARRANTY**

1. The successful bidder shall provide a 12 month warranty on all labor and associated materials.
2. The warranty shall not deprive the Owner of other rights the Owner may have under the provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.

## **PART 2 – PRODUCTS**

### **2.1 GENERAL**

- A. Pre-Engineered Package: The package shall include the following structure(s) from the named Manufacturer.
  1. Structure(s) consist of the following:

NMCAP L-14-2005 SANTA FE PARK SHADE STRUCTURES

Sun Ports Brand 12' x 12' x 10' entry height, Single Post Pyramid. Columns 5" o.d., Rafter Arms 4" o.d. Structure is engineered to 90 mph windload and 30psf snow load(IBC2009). See Steel and Fabric Sections for specifications.

- G
- B. Vendor Contact: Ed Reed, Playwell Group  
9430 San Mateo Blvd. NE, Unit  
Albuquerque, NM 87113  
(505) 980-9356  
[www.playwellgroup.com](http://www.playwellgroup.com)

C. The shade structure shall conform to the current adopted version of the International Building Code 2009 including local agency amendments and additions to the code.

1. All shade structures are engineered and designed to meet a minimum of 90 mph wind load, Exposure C. A live load of 5 lb/sf<sup>2</sup> and a snow load of 5 lb/sf<sup>2</sup>. All shade structures shall be engineered with a zero wind pass through (sieve rate) on the fabric.

- D. Steel:
1. All steel members of the shade structure shall be designed in strict accordance with the requirements of the "American Institute of Steel Construction" (AISC)

## NMCAP L-14-2005 SANTA FE PARK SHADE STRUCTURES

Specifications and the "American Iron and Steel Institute" (AISI) Specifications for Cold Formed Members.

2. All connections shall have a maximum internal sleeving tolerance of .0625 inches using high tensile strength steel sections with a minimum sleeve length of 6 inches.
3. All non-hollow structural steel members shall comply with ASTM A-36. All hollow structural steel members shall be cold formed, high strength steel and comply with ASTM A-500, Grade C. All steel plates shall comply with ASTM A-572, Grade 50. All galvanized steel tubing shall be triple coated for rust protection using an in-line electro-plating coat process. All galvanized steel tubing shall be internally coated with zinc and organic coatings to prevent corrosion.

### E. Bolts:

1. All structural field connections of the shade structure shall be designed and made with high strength bolted connections using ASTM A-354, Grade B or SAE J429, Grade 8.
2. All stainless steel bolts shall comply with ASTM F-593, Alloy Group 1 or 2. All bolt fittings shall include rubber washer for water tight seal at joints. All nuts shall comply with ASTM F-594, Alloy Group 1 or 2.

### F. Welding:

## NMCAP L-14-2005 SANTA FE PARK SHADE STRUCTURES

1. All shop welded connections of the shade structure shall be designed and performed in strict accordance with the requirements of the "American Welding Society" (AWS) Specifications. Structural welds shall be made in compliance with the requirements of the "Prequalified" welded joints where applicable and by certified welders. No onsite or field welding shall be permitted.
  2. All full penetration welds shall be continuously inspected by an independent inspection agency and shall be tested to the requirement of the IBC 2006.
- G. Powder coating:
1. Galvanized steel tubing preparation prior to powder coating shall be executed in accordance to solvent cleaning SSPC-SP1. Solvent such as water, mineral spirits, xylol, toluol, which are to be used to remove foreign matter from the surface. A mechanical method prior to solvent cleaning prior to surface preparation shall be executed according to Power Tool Cleaning SSPC-SP3 and utilizing wire brushes abrasive wheels and needle gun, etc.
  2. Carbon structural steel tubing preparation prior to powder coating shall be executed in accordance to commercial blast cleaning SSPC-SP6 or NACE #3. A commercial blast cleaned surface, when viewed with out magnification, shall be free of all visible oil, grease, dirt, mill scale, rust, coating, oxides, corrosion, products and other foreign material.

3. Powder coating shall be sufficiently applied, with a minimum 3 mils thickness and cured at the recommended temperature to provide proper adhesion and stability to meet salt spray and adhesion tests as defined by the American Society of Testing Materials.
  4. Powder used in the powder coat process shall have the following characteristics:
    - a. Specific Gravity: 1.68 +/- 0.05.
    - b. Theoretical coverage: 114 +/- 4ft<sup>2</sup>/lb/mil
    - c. Mass loss during cure: <1%
    - d. Maximum storage temperature: 75°F
- H. Tension Cable: Steel cable is determined based on calculated engineering load.
1. A minimum of 3/8" (nominal) galvanized 7x19 strand cable shall be used.
- I. Fabric Roof Systems:
1. UV Shade Fabric:
    - a. UV shade fabric is made of UV stabilized Shadesure® cloth manufactured by Multi Knit Ltd and made of a UV stabilized high-density polyethylene that weighs 195g per meter.
    - b. Mesh shall be rachel knitted with monofilament and tape yarn filler to ensure that material will not unravel if cut. Panels to be 10ft wide.

NMCAP L-14-2005 SANTA FE PARK SHADE STRUCTURES

- c. Fire Testing: Fabric shall conform and pass the ASTM E84 testing standard.

2. Fabric Properties:

<b>Life Expectancy</b>	A minimum of 8 years continuous exposure to the sun
<b>Fading</b>	Minimum fading after 5 years (3 Years for Rd)
<b>Fabric Mass</b>	2.43-2.58 oz/sqft (190-200 gsm)
<b>Fabric Width</b>	9.8425 ft (3 m)
<b>Roll Length</b>	164.04 ft (50 m)
<b>Roll Dimensions</b>	62.99" X 16.5354" (160 cm x 42 cm)
<b>Roll Weight</b>	± 66 lb (± 30 kg)
<b>Minimum Temperature</b>	-13° F (-25° C)
<b>Maximum Temperature</b>	+ 176° F (80° C)

shade and UV Factors:

Shade protection and UV screen protection factors shall be as follows:

## NMCAP L-14-2005 SANTA FE PARK SHADE STRUCTURES

<u>Color</u>	<u>UV Block %</u>	<u>Shade %</u>
White	85%	50%
Desert Sand or Beige	95%	75%
Arizona	93%	81%
Terracotta	88%	82%
Yellow	94%	70%
Red	88%	78%
Forest Green	95%	89%
Turquoise	92%	83%
Laguna Blue	93%	90%
Royal Blue	94%	90%
Navy Blue	94%	90%
Silver	93%	88%
Black	96%	95%

#### 4. Stitching & Thread:

- a. All sewing threads are to be double stitched.
- b. Thread shall be GORE Tenara Sewing Thread manufactured from 100% expanded PTFE; mildew resistant exterior approved thread. Thread shall meet or exceed the following:
- c. Flexible temperature range
- d. Very low shrinkage factor
- e. Extremely high strength, durable in outdoor climates
- f. Resists flex and abrasion of fabric
- g. Unaffected by cleaning agents; acid rain, mildew, salt water and rot resistant, unaffected by most industrial pollutants.
- h. Treated for prolonged exposure to the sun.

## **PART 3 – EXECUTION**

### **3.1 INSTALLATION**

- A. Installation of shade structures shall be performed by a bonded contractor with significant experience in pre-manufactured steel frame construction.
- B. The contractor installing the structure shall comply with manufactures instructions for assembly, installation, and erection per approved drawings.
- C. The shade structure canopies shall be installed in one of three orientations as follows and as delineated in the drawings, unless otherwise approved by the Project Administrator.
  - a. Oriented with one rafter pointing toward plan north (8.5 degrees west of magnetic north).
  - b. Oriented with canopy edges square with plan north (8.5 degrees west of magnetic north).
  - c. Oriented with one rafter pointing to 10.5 degrees east of magnetic north (optimal Summer shade orientation in most cases).
- D. The installation, location and orientation of the shade frames and canopies, in general and relative to other playground equipment, shall comply with all applicable U.S. Consumer Product Safety Guidelines and all applicable ASTM International Standard Consumer Safety Performance

NMCAP L-14-2005 SANTA FE PARK SHADE STRUCTURES

Specification for Playground Equipment for Public Use F1487-11 requirements, and specifically Section 9.

E. Concrete:

2. Concrete work shall be executed in accordance with the latest edition of American Concrete Building Code ACI 318.
3. Concrete specifications shall comply in accordance with the section 03000 and as follows, in accordance with is the most stringent specification of the two sections:
  - a. 28 Days Strength  $F'_{c} = 3000$  psi
  - b. Aggregate: HR
  - c. Slump: 3 – 5
  - d. Portland Cement shall conform to C-150
  - e. Aggregate shall conform to ASTM C-33
4. All reinforcement shall conform to ASTM A-615 grade 60.
5. Reinforcing steel shall be detailed, fabricated, and placed in accordance with the latest ACI Detailing Manual and Manual of Standard Practice.
6. Whenever daily ambient temperatures are below 80 degrees Fahrenheit, the contractor may have mix accelerators and hot water added at the batch plant (See Table 1).

7. The contractor shall not pour any concrete when daily ambient temperature is below 55 degrees Fahrenheit.

**TABLE 1**

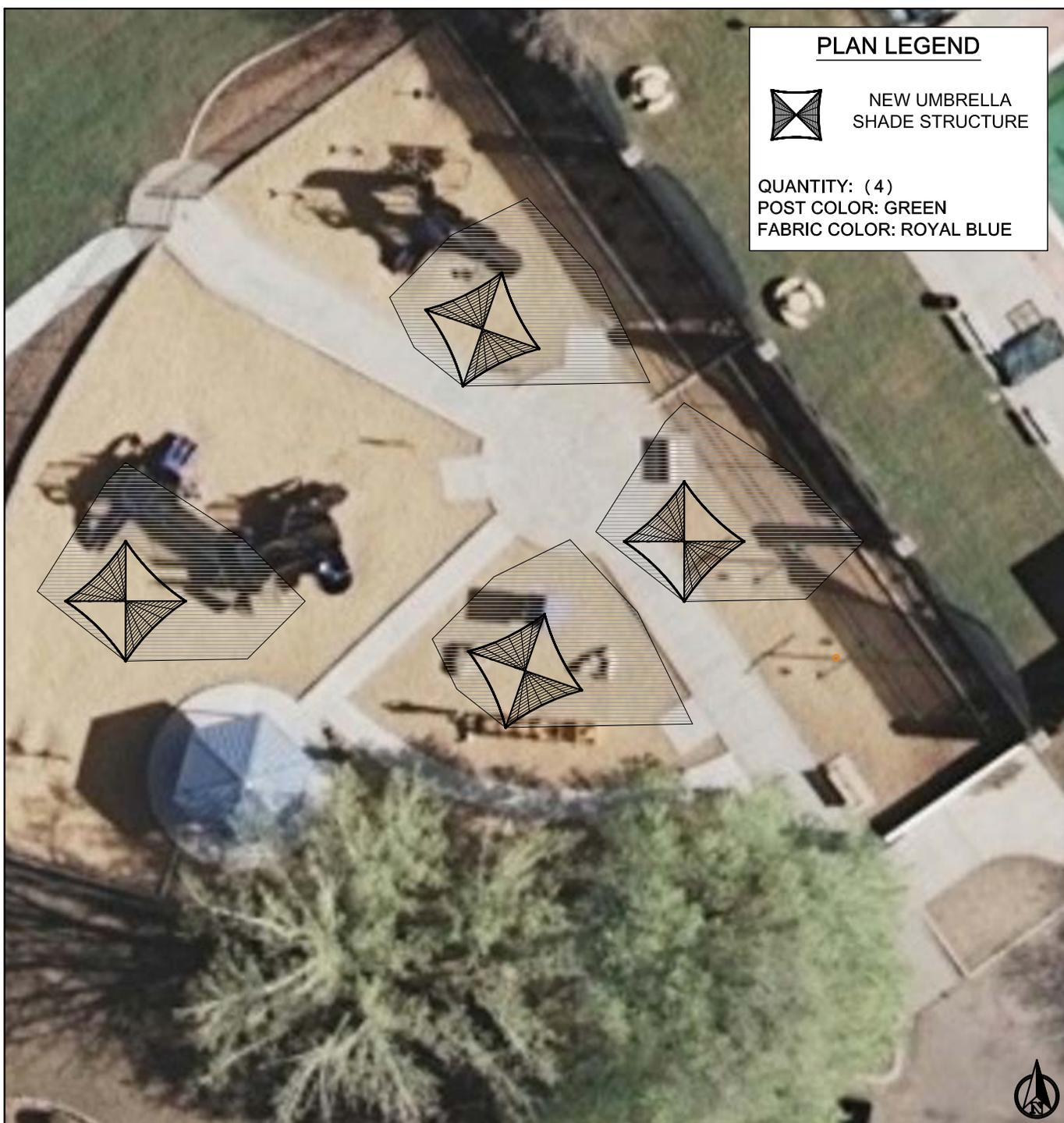
<b>Temperature Range</b>	<b>% Accelerator</b>	<b>Type Accelerator</b>
75-80 degrees	1%	High Early (non calcium)
70-75 degrees	2%	High Early (non calcium)
Below 70 degrees	3%	High Early (non calcium)

F. Foundations:

1. Foundations for the proposed structures shall be as follows:
  - a. The pre-engineered Cantilevered Single Post Pyramid shall have a drilled pier footing per the accompanying engineered construction documents. The footing shall be reinforced with rebar.
2. If Anchor Bolts are used, they shall be Hot Dipped Galvanized.
3. Footings shall be placed in accordance with and conform to manufactures engineered specifications and drawings.

**END OF SECTION 13 31 23**

## EXHIBIT A: PARK SITE DRAWINGS



**PLAN LEGEND**


**NEW UMBRELLA SHADE STRUCTURE**

QUANTITY: (4)  
 POST COLOR: GREEN  
 FABRIC COLOR: ROYAL BLUE

SCALE: 1"=20'-0"

SITE PLAN

ALTO PARK - 1043 ALTO STEET

**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
3. NAIL & FLAG UMBRELLA SHADE POST LOCATIONS PRIOR TO GROUND DISTURBANCE FOR INSTALLATION.
4. LOCATE UMBRELLA SHADE CANOPIES IN THE ORIENTATION SHOWN ON THE PLANS AND AS INDICATED IN THE SPECIFICATIONS UNLESS THE CONTRACTOR DEEMS THAT THE ORIENTATION MUST CHANGE FOR ASTM COMPLIANCE.
5. IN ALL CASES THE SHADE CANOPY PERIMETER EDGE SHALL NOT BE LOCATED CLOSER THAN 72" IN ANY HORIZONTAL DIRECTION FROM PLAY EQUIPMENT OR WALLS, ETC. WITH A FLAT SURFACE OR DECK GREATER THAN 36" IN HEIGHT TO HELP AVOID VANDALISM TO FABRIC.



PROJECT: **CITY OF SANTA FE**  
**PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005**  
 TITLE: **ALTO PARK**  
DATE OF LAST EDIT: 4/10/2015

SCALE: 1"=20'-0"

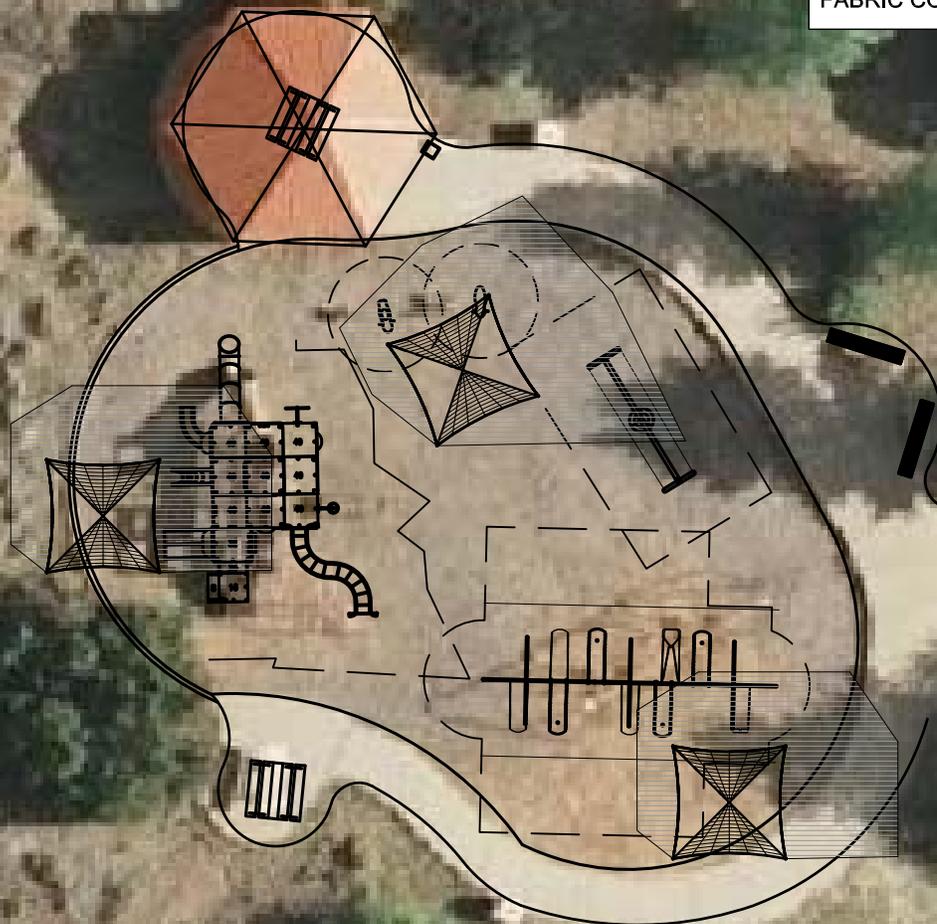
ALVARADO PARK - 2234 CALLE ALVARADO SITE PLAN

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (3)  
POST COLOR: BEIGE  
FABRIC COLOR: TERRACOTTA



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
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PROJECT:

CITY OF SANTA FE  
PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE:

ALVARADO PARK

DATE OF LAST EDIT: 1/16/2015

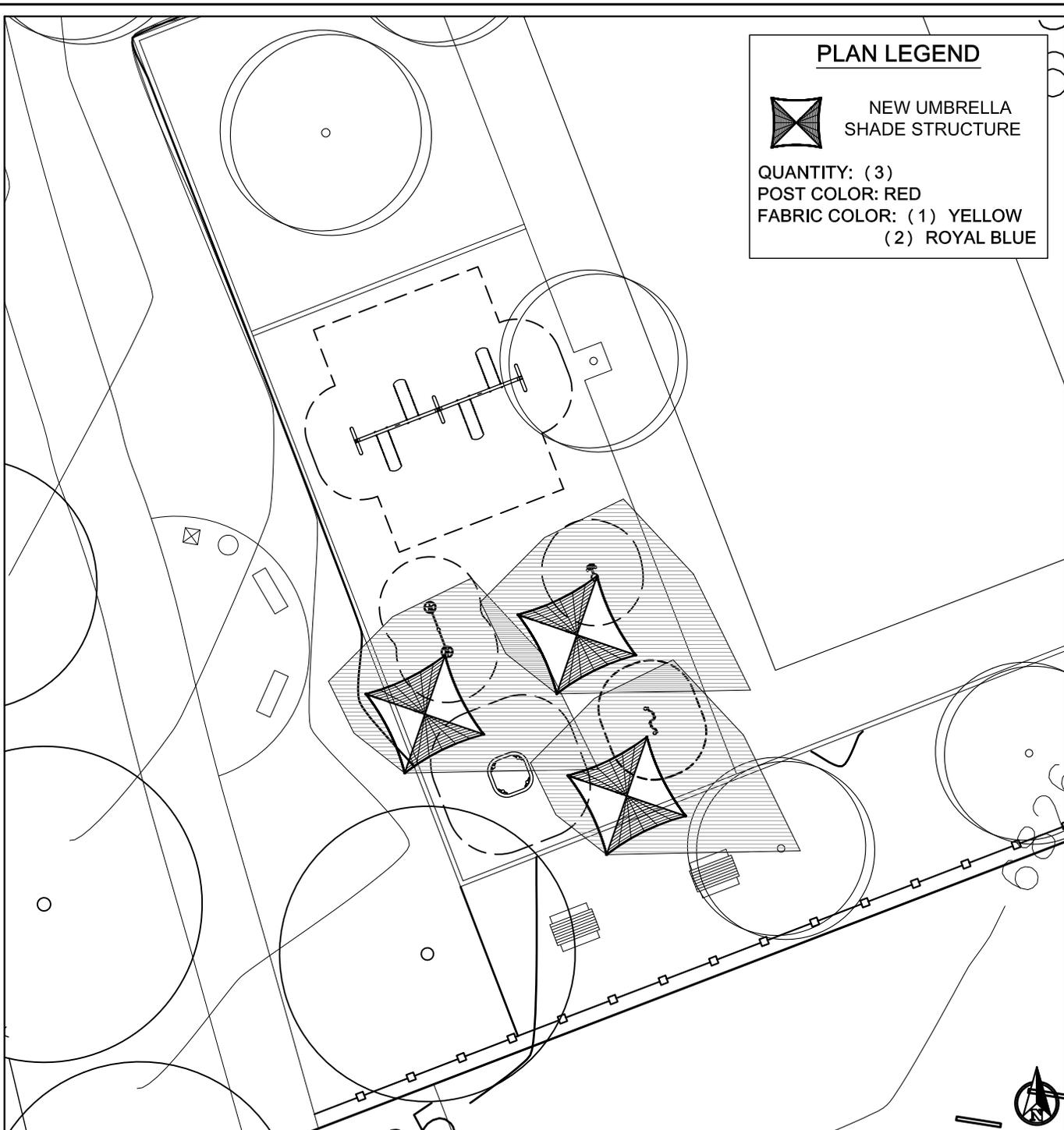
SCALE: 1"=20'-0"  
SITE PLAN  
ASHBAUGH PARK - 1703 CERRILLOS RD.

### PLAN LEGEND



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (3)  
POST COLOR: RED  
FABRIC COLOR: (1) YELLOW  
(2) ROYAL BLUE



### GENERAL PLAN NOTES

1. FIELD VERIFY AND DEMARCATATE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
3. NAIL & FLAG UMBRELLA SHADE POST LOCATIONS PRIOR TO GROUND DISTURBANCE FOR INSTALLATION.
4. LOCATE UMBRELLA SHADE CANOPIES IN THE ORIENTATION SHOWN ON THE PLANS AND AS INDICATED IN THE SPECIFICATIONS UNLESS THE CONTRACTOR DEEMS THAT THE ORIENTATION MUST CHANGE FOR ASTM COMPLIANCE.
5. IN ALL CASES THE SHADE CANOPY PERIMETER EDGE SHALL NOT BE LOCATED CLOSER THAN 72" IN ANY HORIZONTAL DIRECTION FROM PLAY EQUIPMENT OR WALLS, ETC. WITH A FLAT SURFACE OR DECK GREATER THAN 36" IN HEIGHT TO HELP AVOID VANDALISM TO FABRIC.



PROJECT: CITY OF SANTA FE  
PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
TITLE: ASHBAUGH PARK  
DATE OF LAST EDIT: 1/16/2015

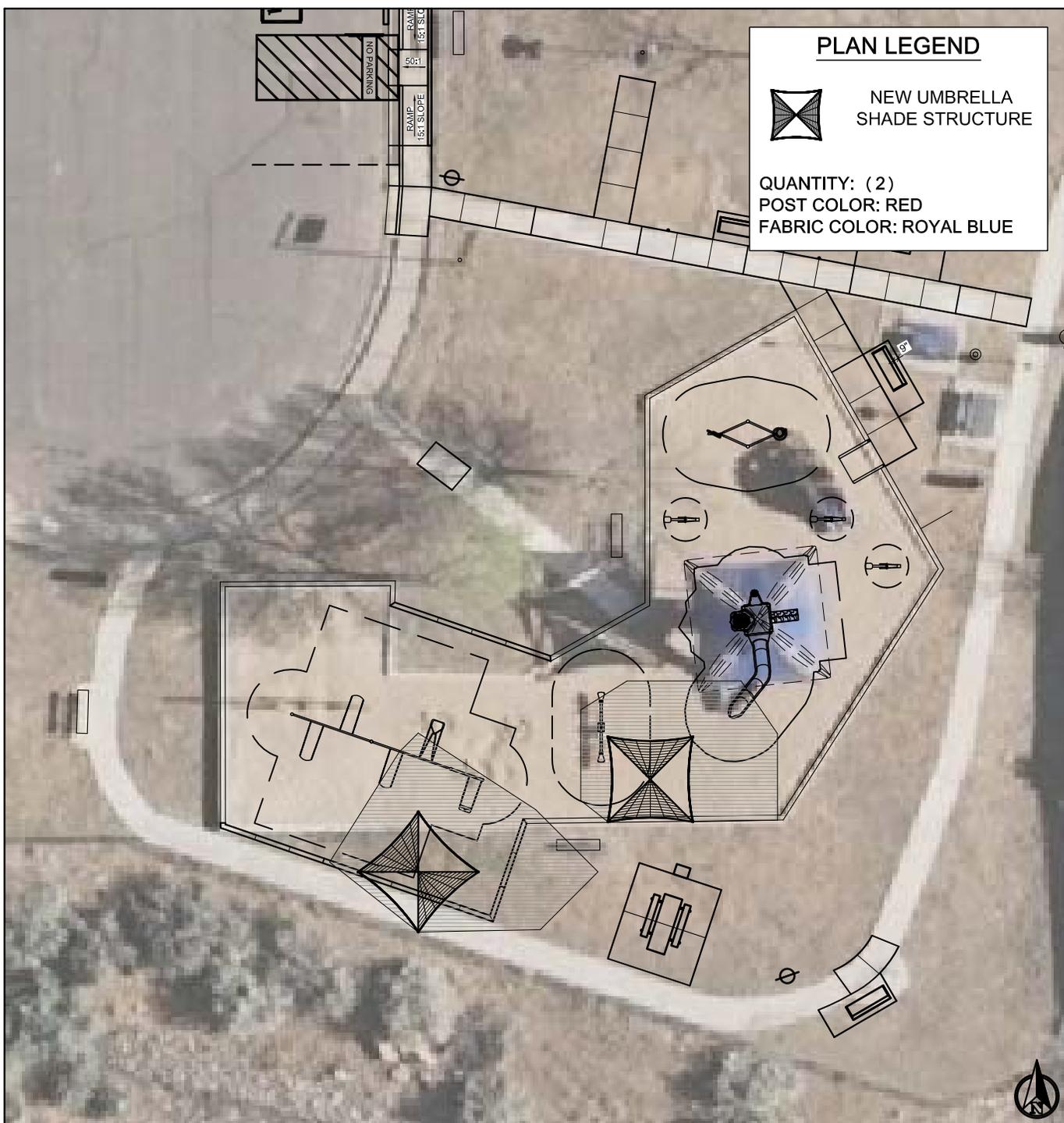
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SITE PLAN

BRILLANTE ST.

CANDELERO PARK

2213 BRILLANTE ST.



**PLAN LEGEND**

 NEW UMBRELLA SHADE STRUCTURE

QUANTITY: (2)  
 POST COLOR: RED  
 FABRIC COLOR: ROYAL BLUE

**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATATE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
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4. LOCATE UMBRELLA SHADE CANOPIES IN THE ORIENTATION SHOWN ON THE PLANS AND AS INDICATED IN THE SPECIFICATIONS UNLESS THE CONTRACTOR DEEMS THAT THE ORIENTATION MUST CHANGE FOR ASTM COMPLIANCE.
5. IN ALL CASES THE SHADE CANOPY PERIMETER EDGE SHALL NOT BE LOCATED CLOSER THAN 72" IN ANY HORIZONTAL DIRECTION FROM PLAY EQUIPMENT OR WALLS, ETC. WITH A FLAT SURFACE OR DECK GREATER THAN 36" IN HEIGHT TO HELP AVOID VANDALISM TO FABRIC.



PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE: CANDELERO PARK

DATE OF LAST EDIT: 1/16/2015



**PLAN LEGEND**

 NEW UMBRELLA SHADE STRUCTURE

QUANTITY: (3)  
 POST COLOR: WARM BRONZE  
 FABRIC COLOR: YELLOW

**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
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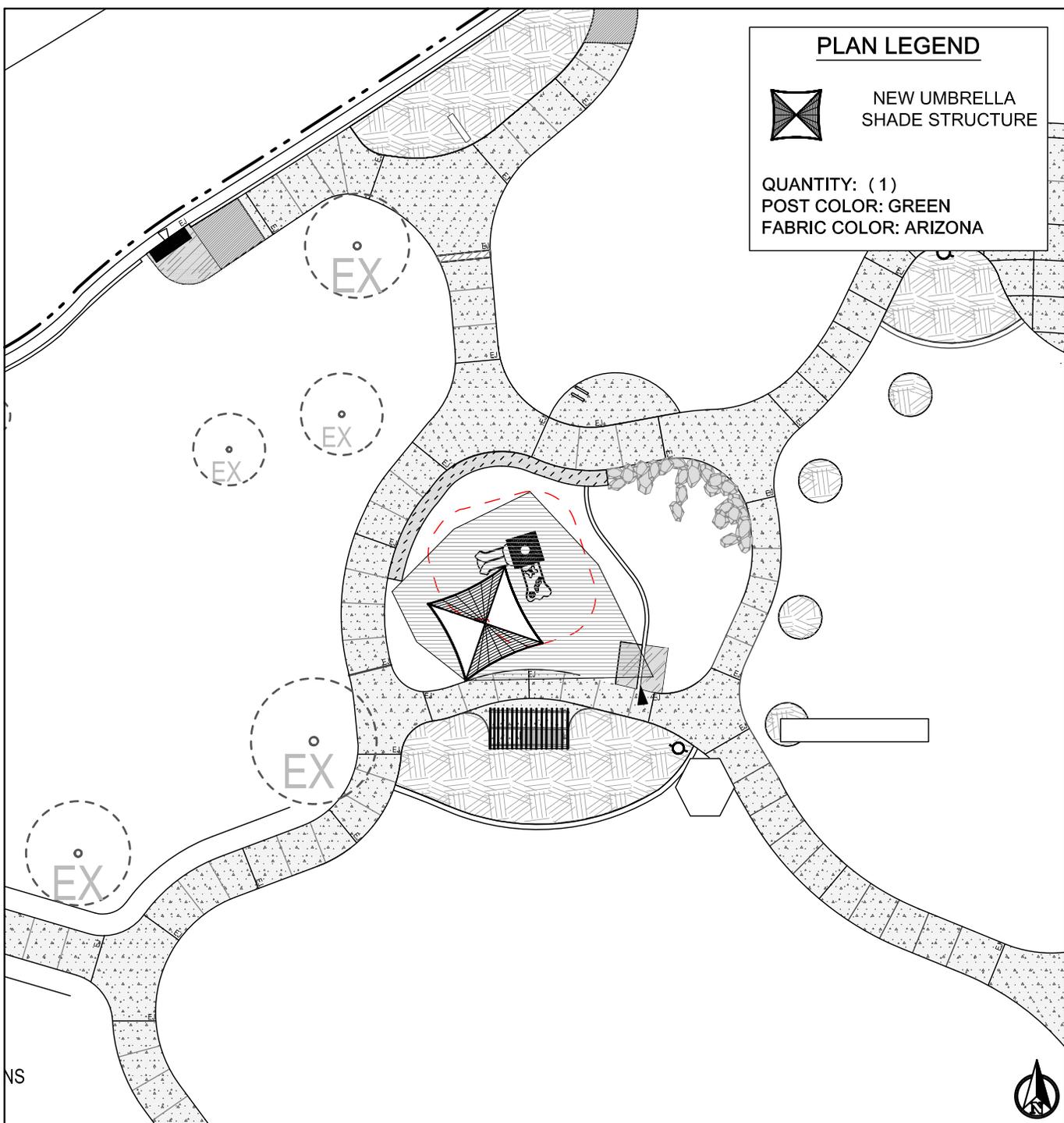
PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE: CIELO VISTA PARK

DATE OF LAST EDIT: 1/16/2015

CIELO VISTA PARK - 1058 CALLE CARMELITA SITE PLAN SCALE: 1"=20'-0"

DANCING GROUND PARK - 4387 DANCING GROUND RD. SITE PLAN SCALE: 1"=20'-0"



**PLAN LEGEND**


 NEW UMBRELLA SHADE STRUCTURE

QUANTITY: (1)  
 POST COLOR: GREEN  
 FABRIC COLOR: ARIZONA

**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
3. NAIL & FLAG UMBRELLA SHADE POST LOCATIONS PRIOR TO GROUND DISTURBANCE FOR INSTALLATION.
4. LOCATE UMBRELLA SHADE CANOPIES IN THE ORIENTATION SHOWN ON THE PLANS AND AS INDICATED IN THE SPECIFICATIONS UNLESS THE CONTRACTOR DEEMS THAT THE ORIENTATION MUST CHANGE FOR ASTM COMPLIANCE.
5. IN ALL CASES THE SHADE CANOPY PERIMETER EDGE SHALL NOT BE LOCATED CLOSER THAN 72" IN ANY HORIZONTAL DIRECTION FROM PLAY EQUIPMENT OR WALLS, ETC. WITH A FLAT SURFACE OR DECK GREATER THAN 36" IN HEIGHT TO HELP AVOID VANDALISM TO FABRIC.

FACILITIES  
 The City of  
  
 Santa Fe  
 DEVELOPMENT

PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
 TITLE: DANCING GROUND PARK  
 DATE OF LAST EDIT: 1/16/15



**PLAN LEGEND**


 NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (2)  
 POST COLOR: BLUE  
 FABRIC COLOR: RAIN FOREST

SCALE: 1"=20'-0"      SITE PLAN      DOS HERMANOS PARK - 1628 LA CIENEGUITA



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
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FACILITIES  
 The City of  
 Santa Fe  
 DEVELOPMENT

LOCALS & PARKS  
 PROJECTS

CIP

PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
 TITLE: DOS HERMANOS PARK

DATE OF LAST EDIT: 1/16/2015

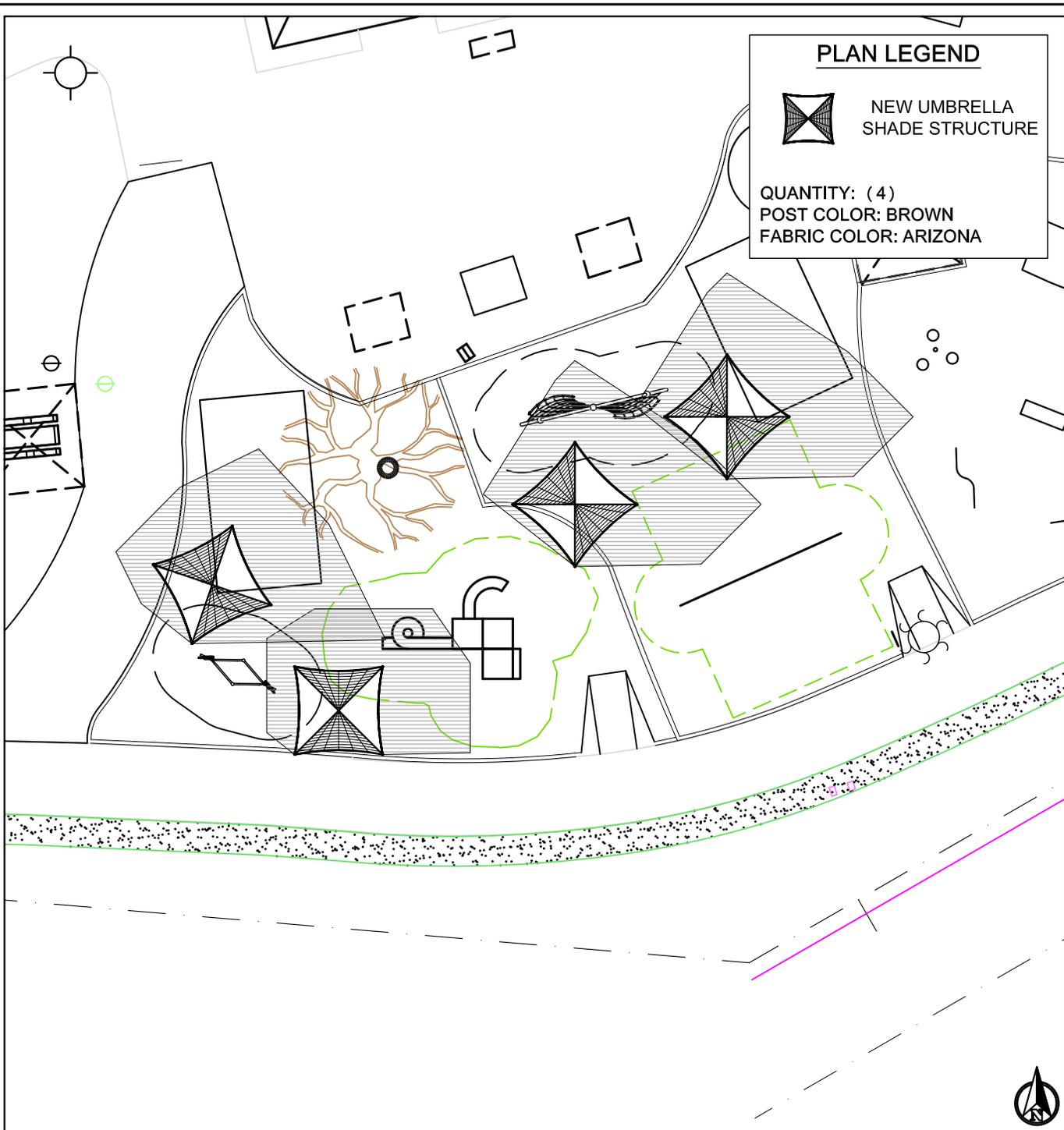
SCALE: 1"=20'-0" SITE PLAN FRENCHY'S PARK - 2004 AGUA FRIA

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (4)  
POST COLOR: BROWN  
FABRIC COLOR: ARIZONA



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
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PROJECT: CITY OF SANTA FE  
 TITLE: PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
 FRENCHY'S PARK  
 DATE OF LAST EDIT: 1/16/2015

SCALE: 1"=20'-0"

SITE PLAN

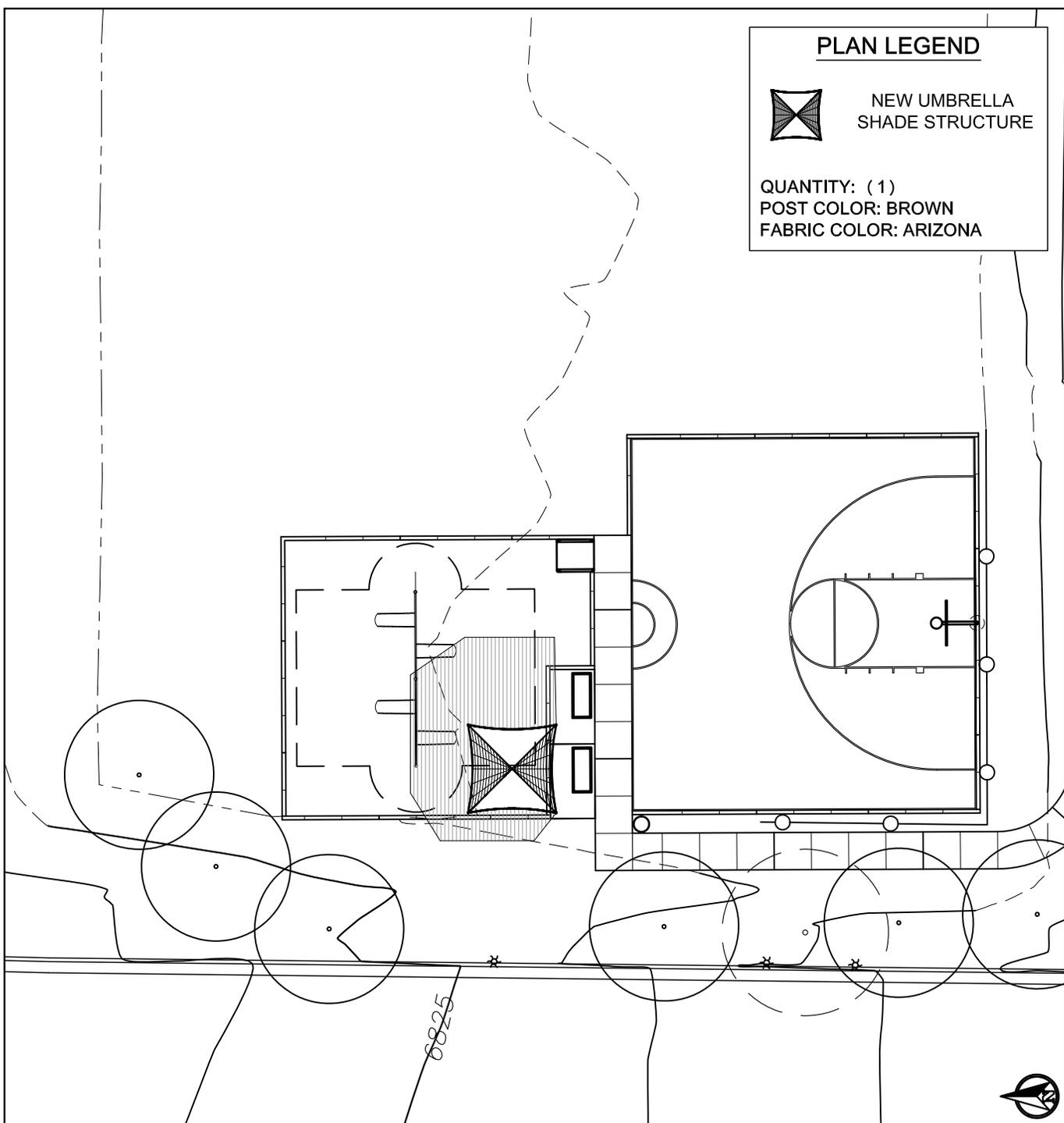
GALISTEO PARK - 2721 GALISTEO CT.

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (1)  
POST COLOR: BROWN  
FABRIC COLOR: ARIZONA



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
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PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
 TITLE: GALISTEO PARK  
 DATE OF LAST EDIT: 1/16/2015

SCALE: 1"=20'-0"

SITE PLAN

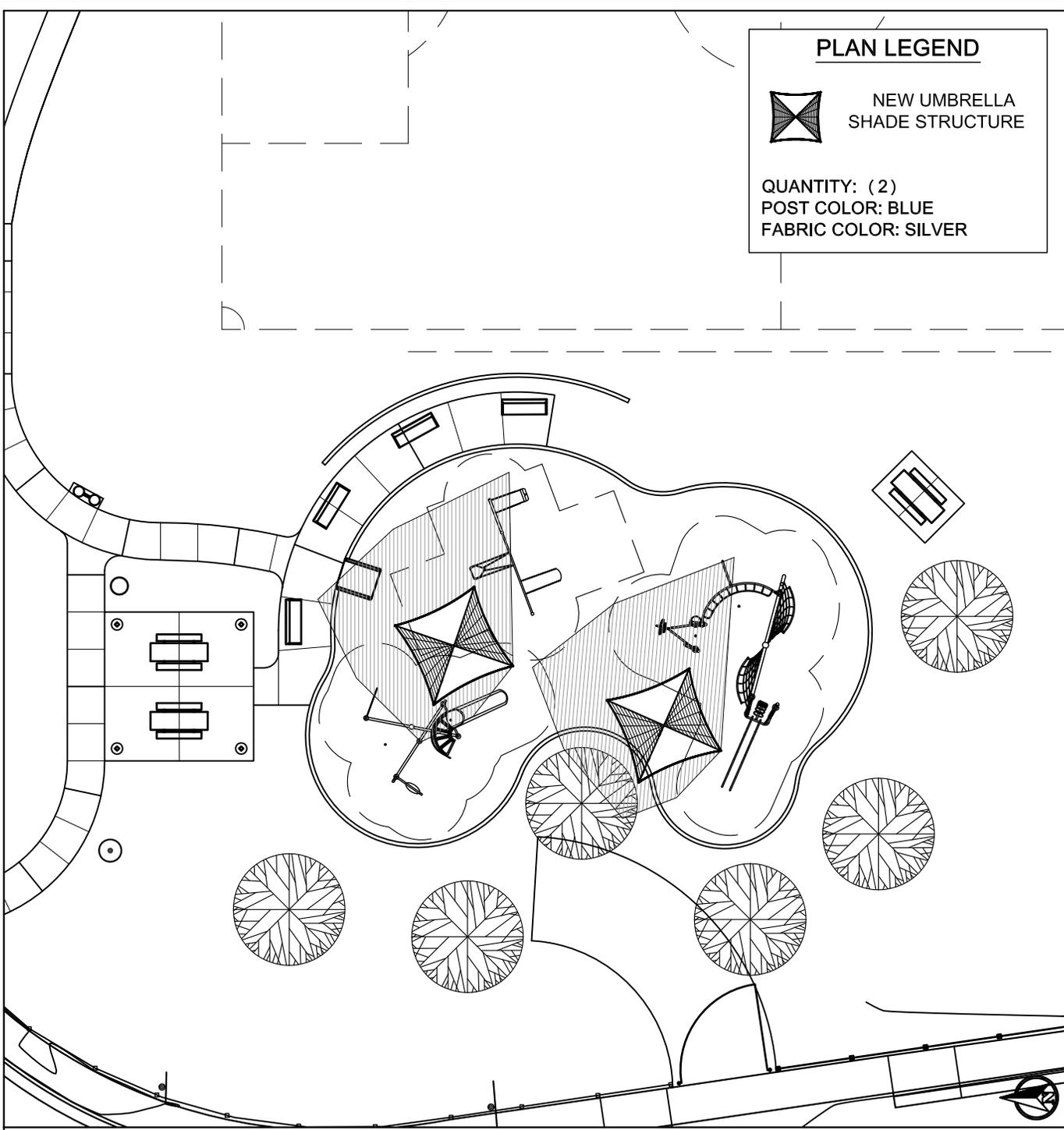
GCCC PARK - 3221 RODEO ROAD

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (2)  
POST COLOR: BLUE  
FABRIC COLOR: SILVER



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATÉ AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
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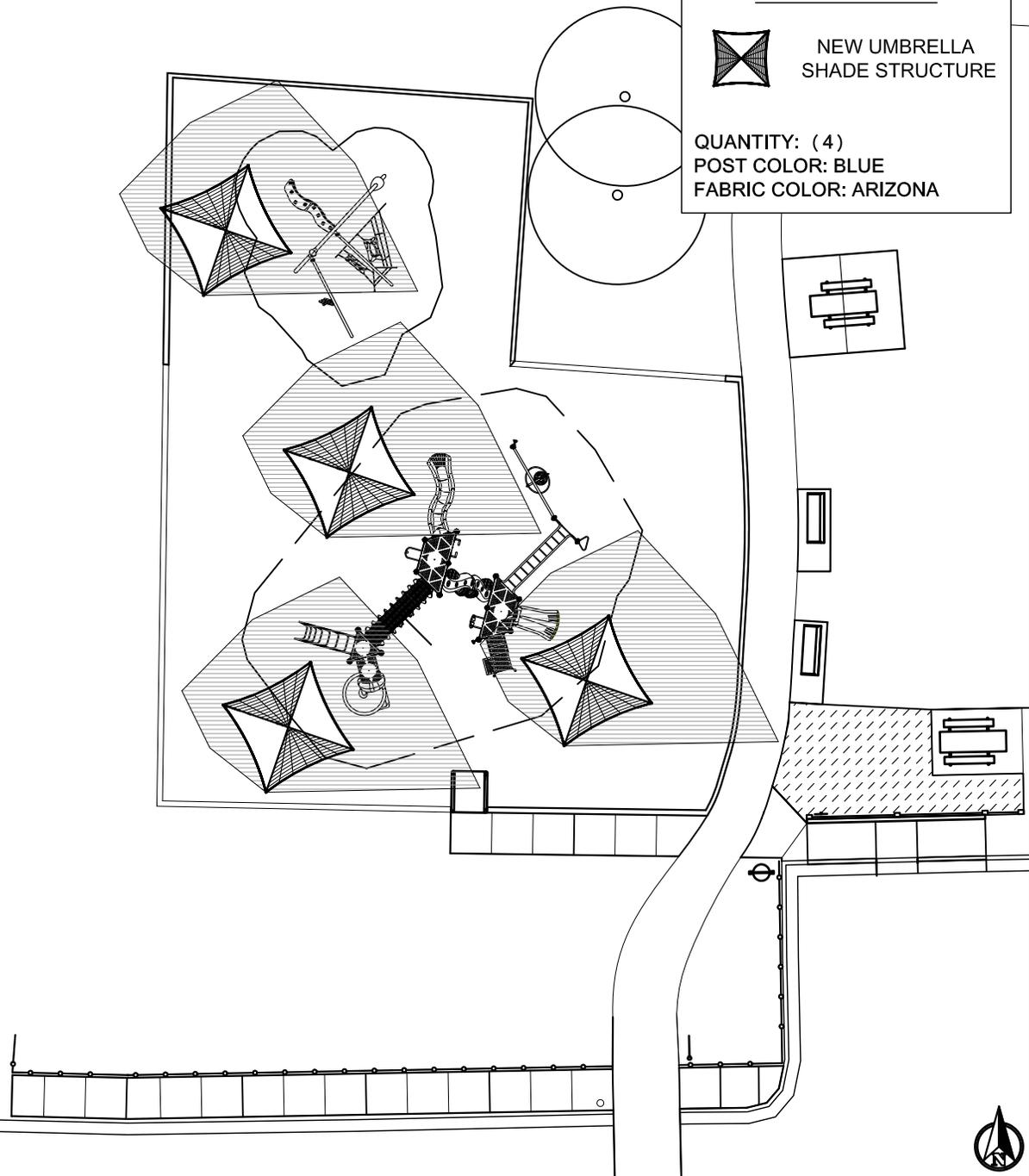
FACILITIES  
The City of  
Santa Fe  
LOCALS & PARKS  
PROJECTS  
CIP  
DEVELOPMENT

PROJECT: CITY OF SANTA FE  
PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
TITLE: GCCC PARK  
DATE OF LAST EDIT: 4/13/2015

**PLAN LEGEND**

 NEW UMBRELLA SHADE STRUCTURE

QUANTITY: (4)  
 POST COLOR: BLUE  
 FABRIC COLOR: ARIZONA



**GENERAL PLAN NOTES**

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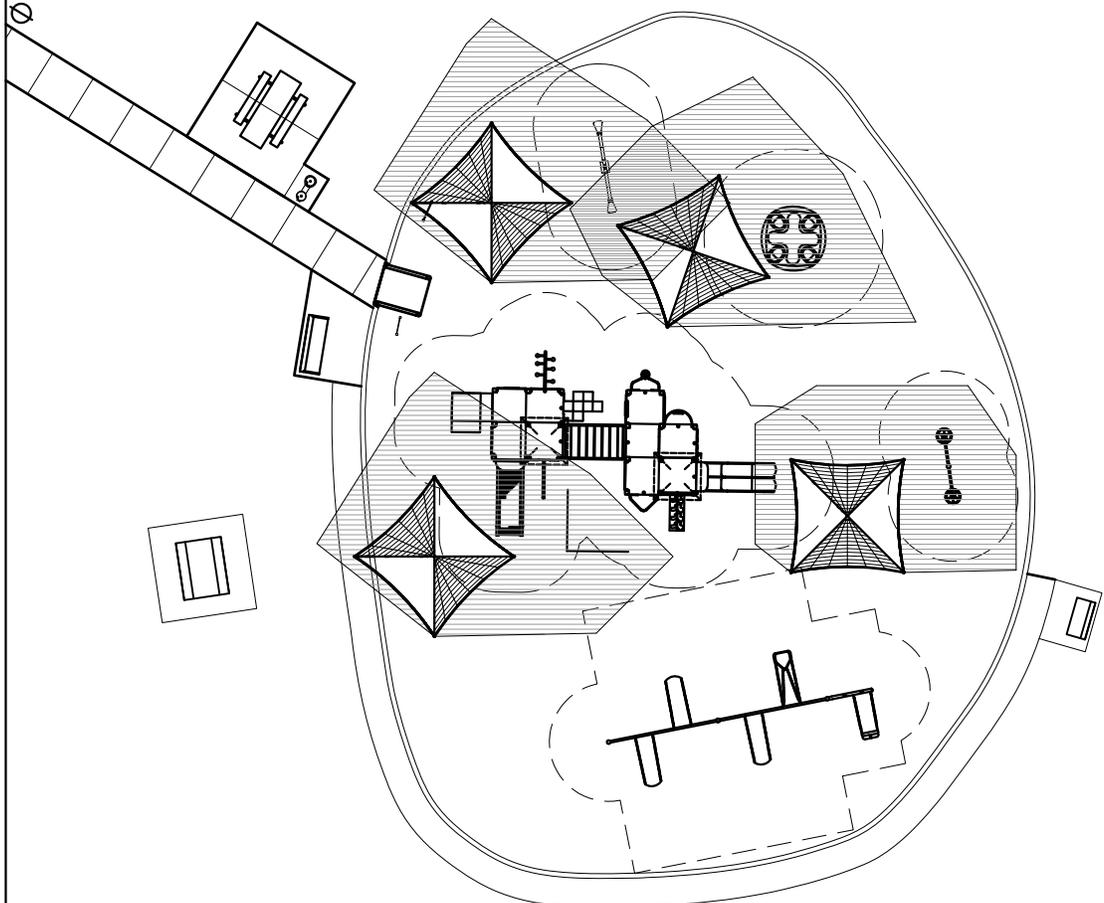
PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
 TITLE: GRIEGO PARK  
 DATE OF LAST EDIT: 1/16/2015

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (4)  
POST COLOR: RED  
FABRIC COLOR: YELLOW



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
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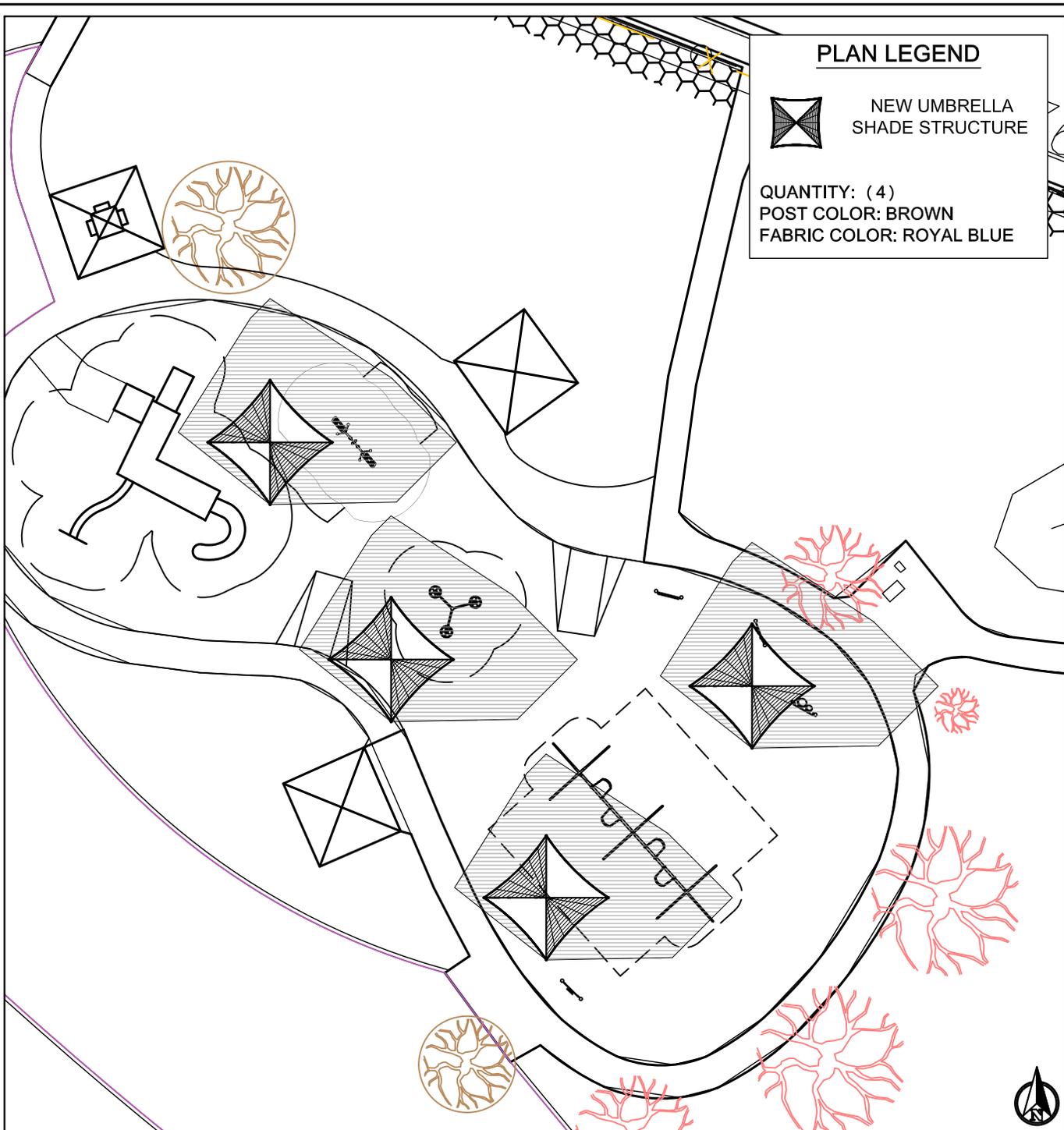
PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
 TITLE: LA RESOLANA PARK  
 DATE OF LAST EDIT: 1/18/2015

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (4)  
POST COLOR: BROWN  
FABRIC COLOR: ROYAL BLUE



**GENERAL PLAN NOTES**

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PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE: LARRAGOITE PARK

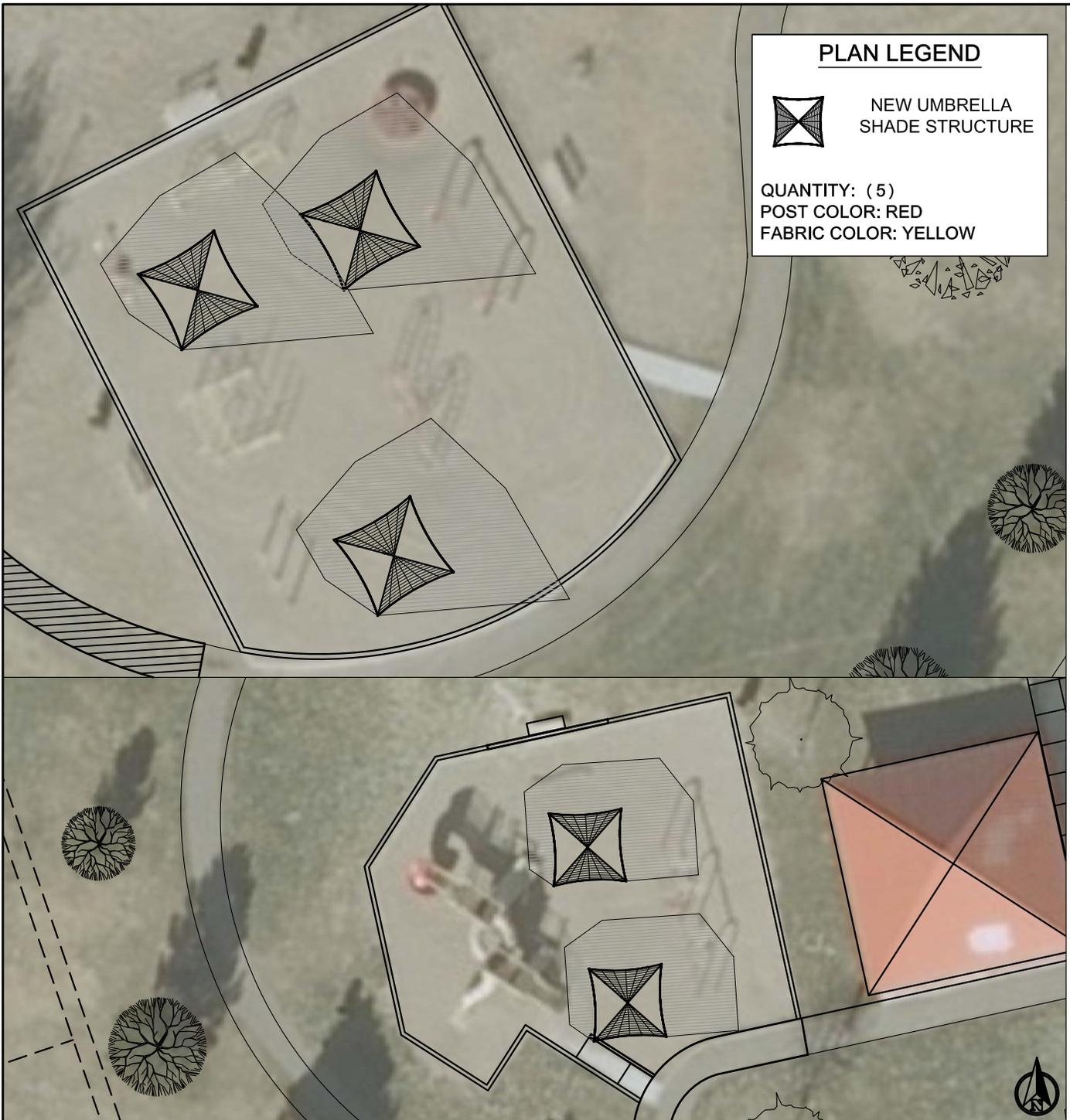
DATE OF LAST EDIT: 1/16/2015

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (5)  
POST COLOR: RED  
FABRIC COLOR: YELLOW



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATÉ AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
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PROJECT:

CITY OF SANTA FE  
PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE:

LAS ACEQUIAS PARK

DATE OF LAST EDIT: 4/13/2015

SCALE: 1"=20'-0"

SITE PLAN

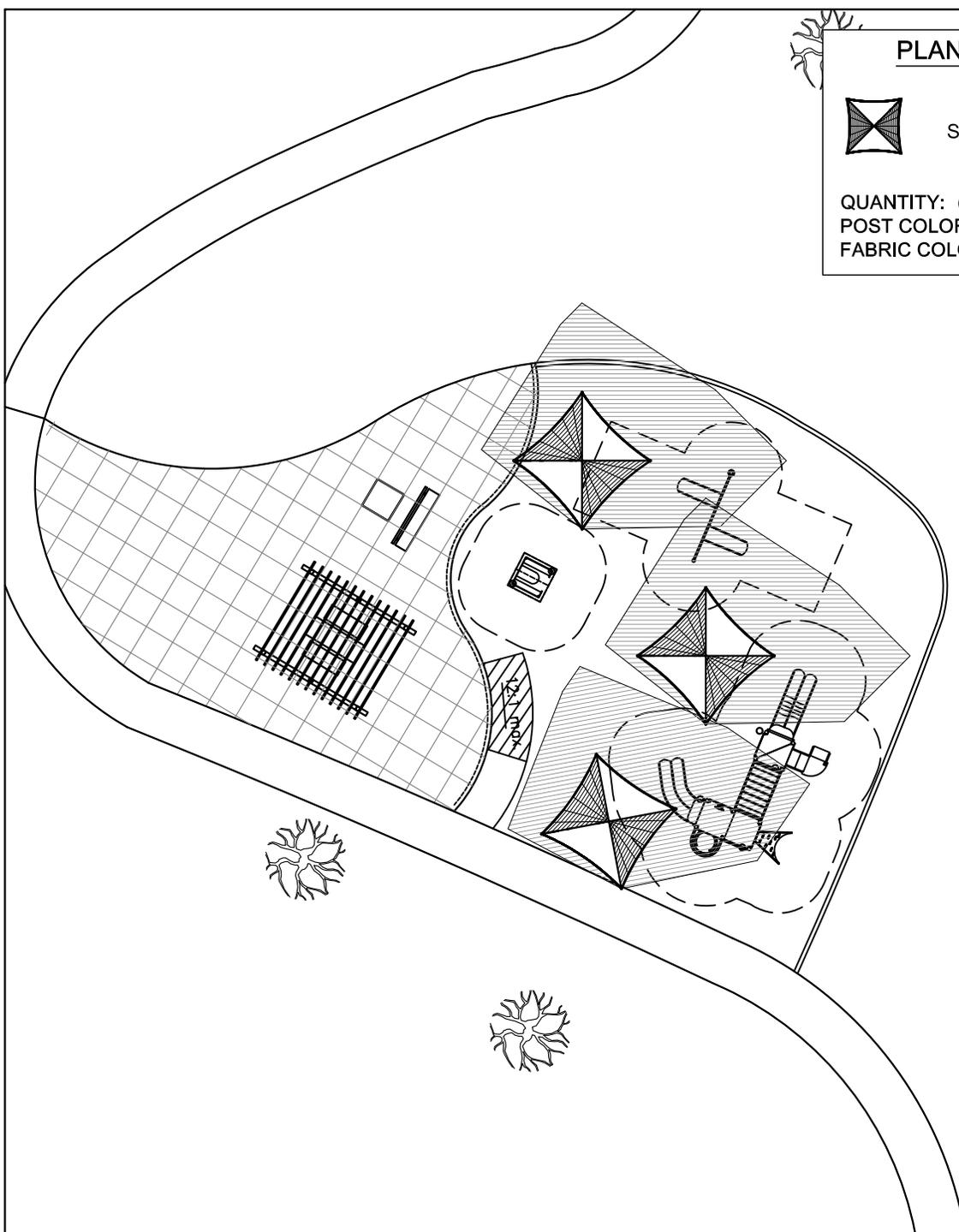
LAS ACEQUIAS PARK - 1100 CALLE ATAJO

**PLAN LEGEND**



NEW UMBRELLA SHADE STRUCTURE

QUANTITY: (3)  
 POST COLOR: GREEN  
 FABRIC COLOR: RAIN FOREST



**GENERAL PLAN NOTES**

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PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
 TITLE: LAS ESTANCIAS PARK  
 DATE OF LAST EDIT: 1/16/2015

SCALE: 1"=20'-0"  
SITE PLAN  
LOPEZ PARK - 1230 SAN FELIPE RD.



**PLAN LEGEND**

 NEW UMBRELLA SHADE STRUCTURE

QUANTITY: (2)  
POST COLOR: BROWN  
FABRIC COLOR: GREEN

**GENERAL PLAN NOTES**

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PROJECT: CITY OF SANTA FE  
PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE: LOPEZ PARK

DATE OF LAST EDIT: 1/16/2015

SCALE: 1"=20'-0"

SITE PLAN

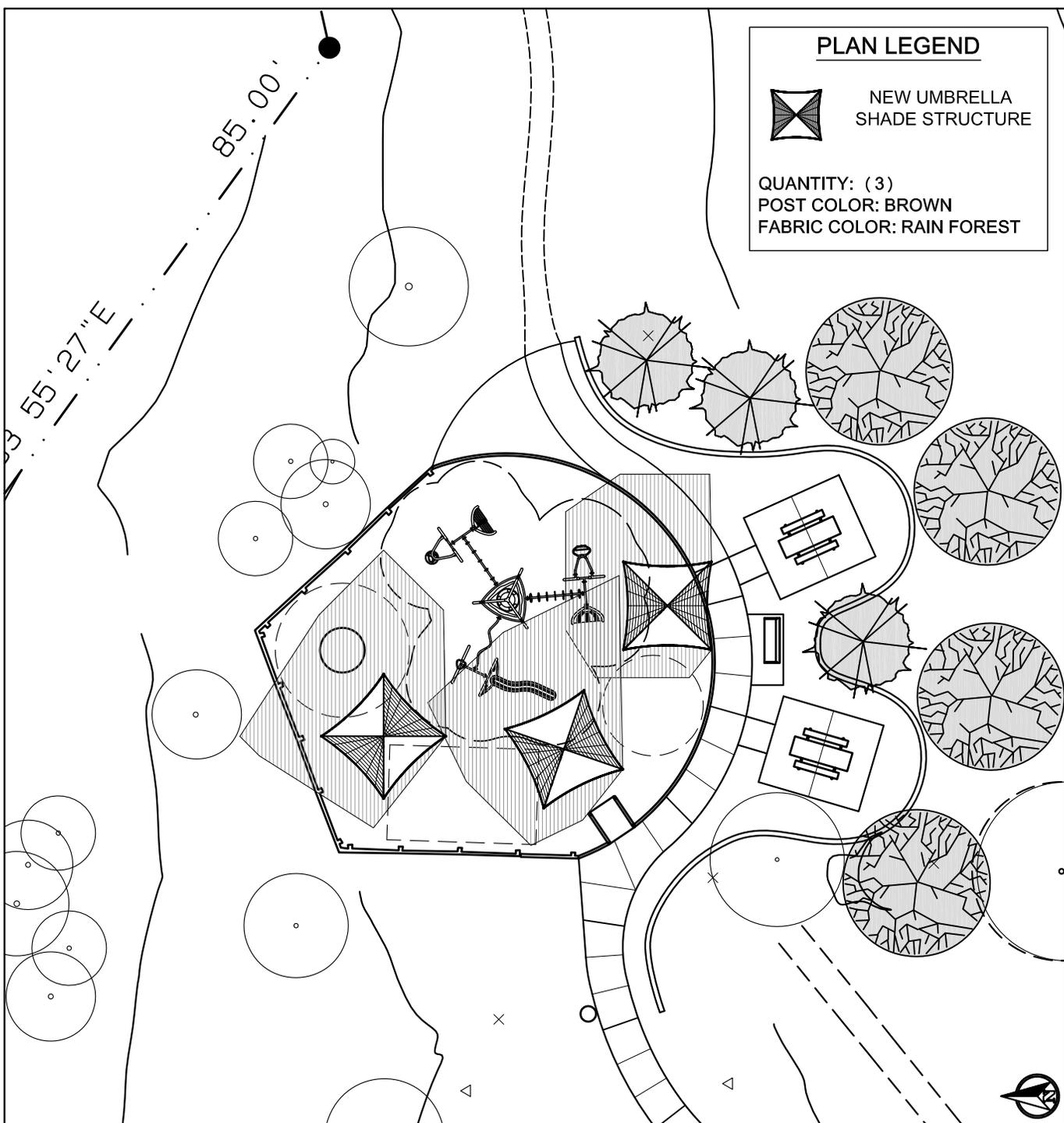
LORCA PARK - 2075 CALLE LORCA

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (3)  
POST COLOR: BROWN  
FABRIC COLOR: RAIN FOREST



**GENERAL PLAN NOTES**

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PROJECT:

CITY OF SANTA FE  
PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE:

LORCA PARK

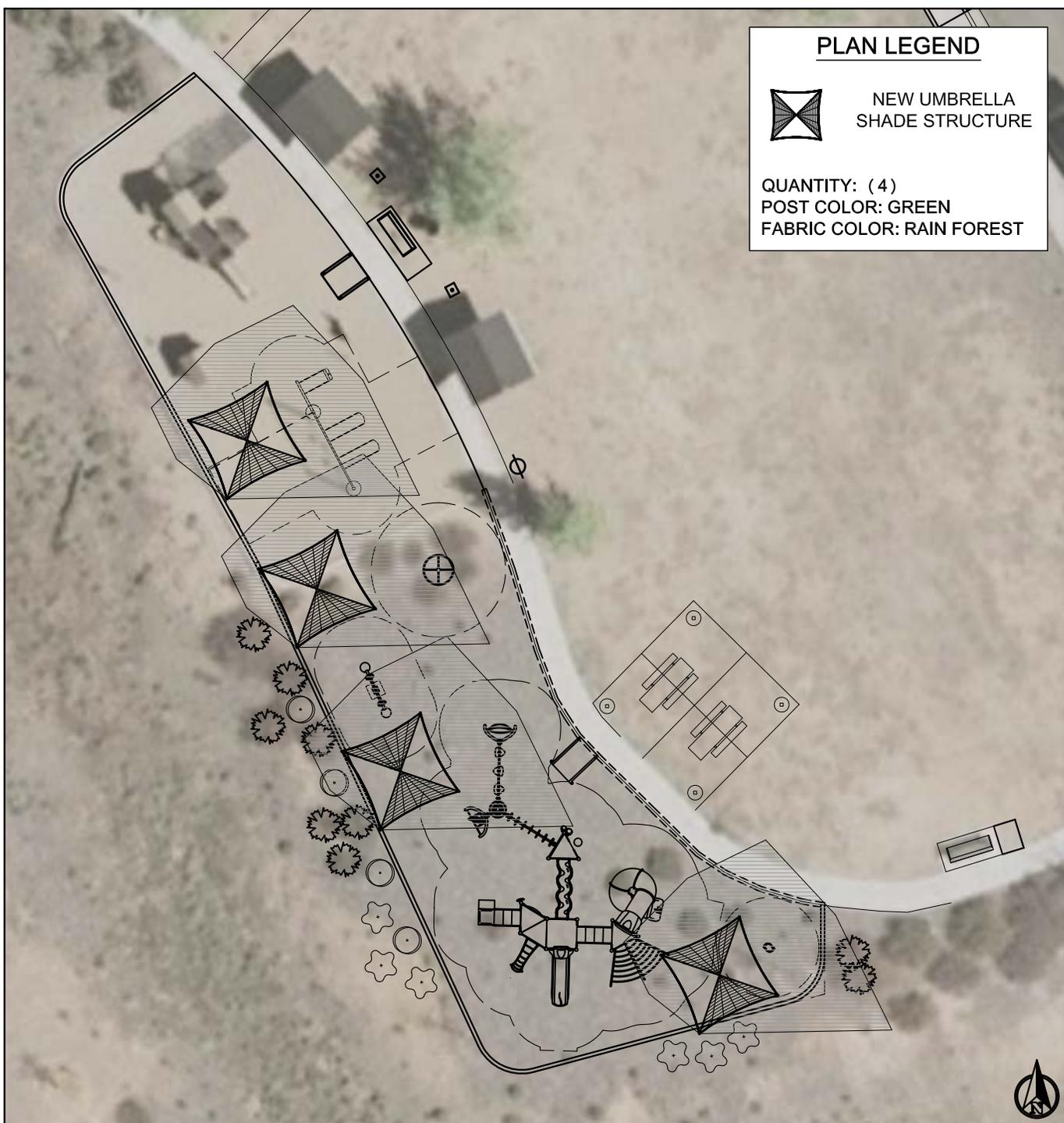
DATE OF LAST EDIT: 1/16/2015

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (4)  
POST COLOR: GREEN  
FABRIC COLOR: RAIN FOREST



**GENERAL PLAN NOTES**

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PROJECT:

CITY OF SANTA FE  
PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE:

LOS MILAGROS PARK

SCALE: 1"=20'-0"

SITE PLAN

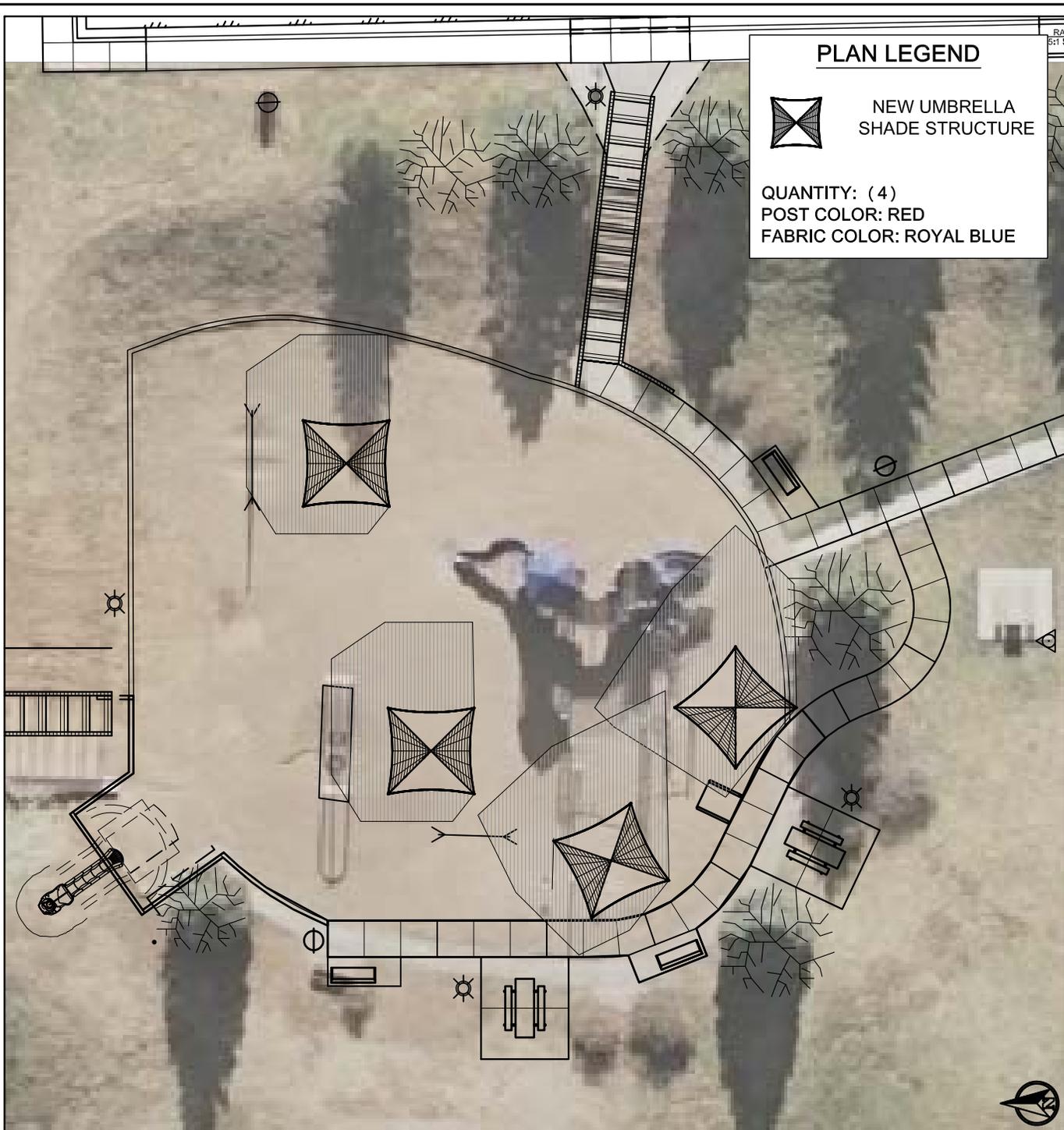
LUCERO PARK - 2356 AVE. DE LAS CAMPANAS

### PLAN LEGEND



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (4)  
POST COLOR: RED  
FABRIC COLOR: ROYAL BLUE



### GENERAL PLAN NOTES

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PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
 TITLE: LUCERO PARK  
 DATE OF LAST EDIT: 1/16/2015

SCALE: 1"=20'-0"  
SITE PLAN  
MACLOVIA PARK - 1202 MACLOVIA ST.

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (2)  
POST COLOR: GREEN  
FABRIC COLOR: ARIZONA



**GENERAL PLAN NOTES**

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5. IN ALL CASES THE SHADE CANOPY PERIMETER EDGE SHALL NOT BE LOCATED CLOSER THAN 72" IN ANY HORIZONTAL DIRECTION FROM PLAY EQUIPMENT OR WALLS, ETC. WITH A FLAT SURFACE OR DECK GREATER THAN 36" IN HEIGHT TO HELP AVOID VANDALISM TO FABRIC.



PROJECT:

CITY OF SANTA FE  
PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE:

MACLOVIA PARK

DATE OF LAST EDIT: 1/16/2015

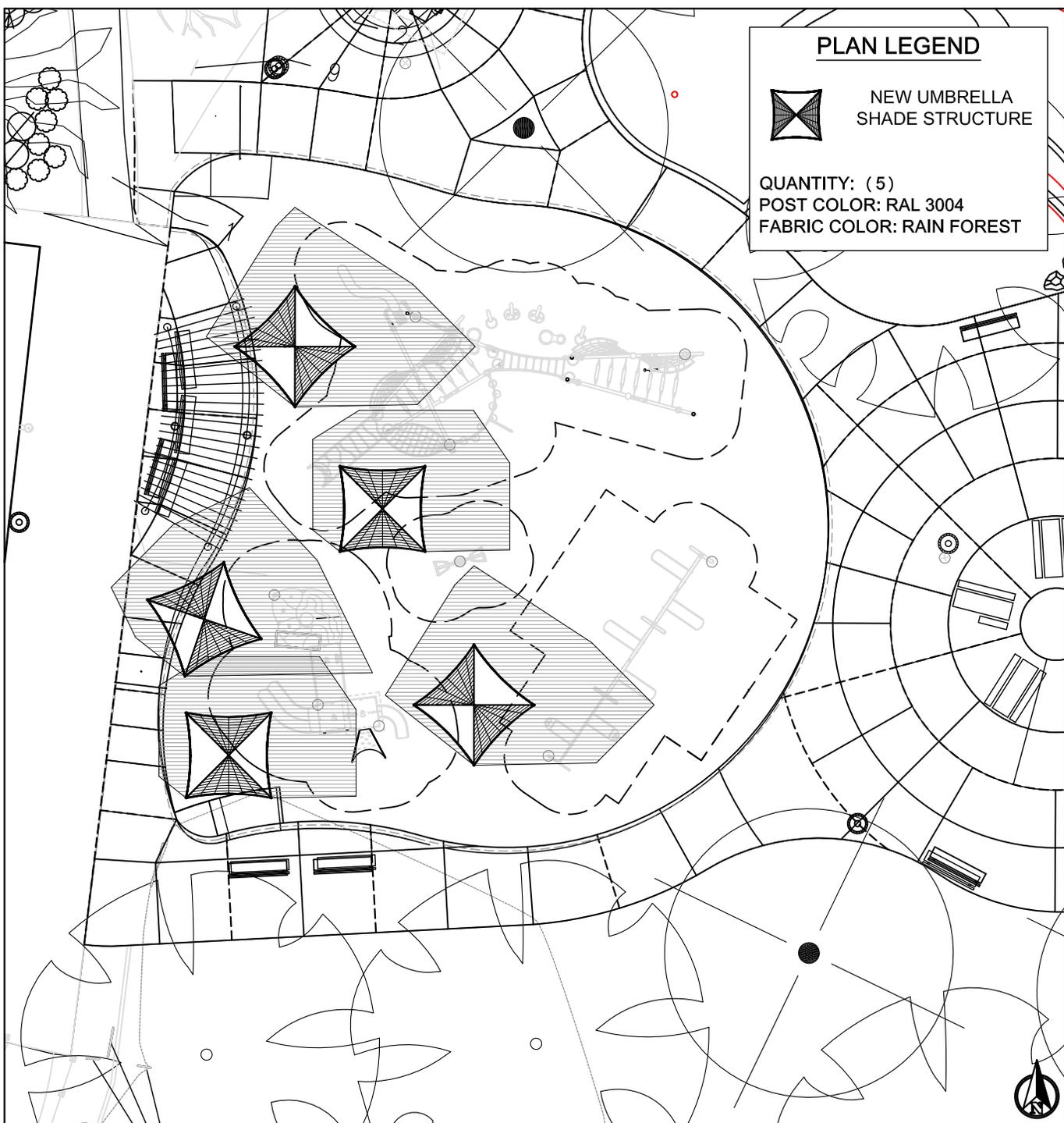
SCALE: 1"=20'-0" SITE PLAN MAGERS PARK - 490 WASHINGTON AV.

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (5)  
POST COLOR: RAL 3004  
FABRIC COLOR: RAIN FOREST



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATATE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
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PROJECT:

CITY OF SANTA FE  
PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE:

MAGERS PARK

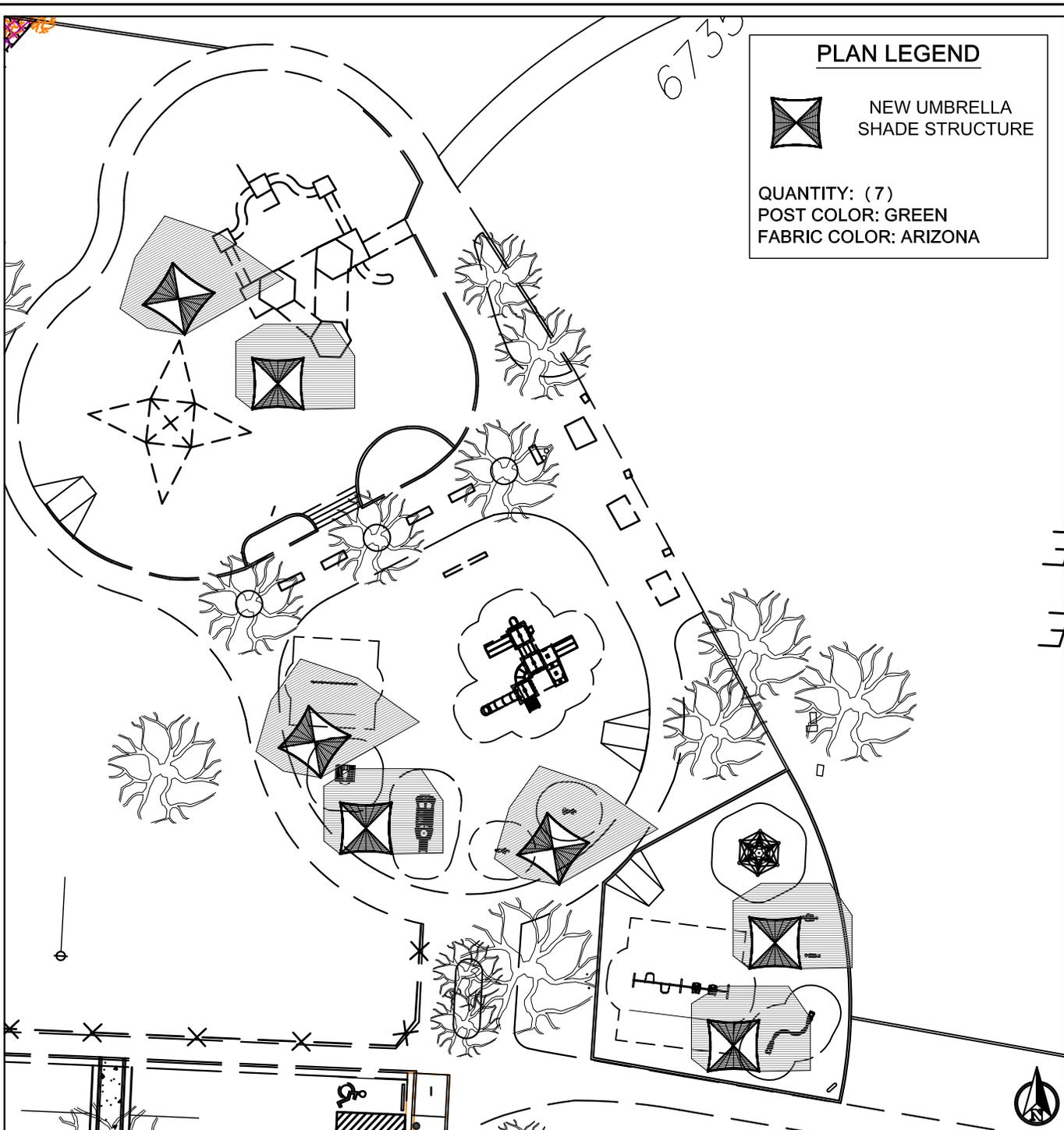
DATE OF LAST EDIT: 1/16/2015

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (7)  
POST COLOR: GREEN  
FABRIC COLOR: ARIZONA



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATATE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
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PROJECT: CITY OF SANTA FE  
 TITLE: PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
 MILES PARK  
 DATE OF LAST EDIT: 1/16/2015



**PLAN LEGEND**


 NEW UMBRELLA  
SHADE STRUCTURE

QUANTITY: (3)  
 POST COLOR: RAL 3004  
 FABRIC COLOR: RAIN FOREST

SCALE: 1"=20'-0"

SITE PLAN

MLK PARK - 2738 CALLE SERENA

**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
2. LOCATE UMBRELLA SHADE POSTS AS CLOSE AS POSSIBLE TO, BUT CLEAR OF PLAY EQUIPMENT SAFETY ZONES UNLESS OTHERWISE INDICATED ON THE PLAN. SCALE PLANS TO FIELD LOCATE THE APPROXIMATE INTENDED LOCATION OF EACH STRUCTURE AND THEN DETERMINE FINAL LOCATION IN COMPLIANCE WITH ASTM 9.8.4.1.
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PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE: MLK PARK

SCALE: 1"=20'-0"

SITE PLAN

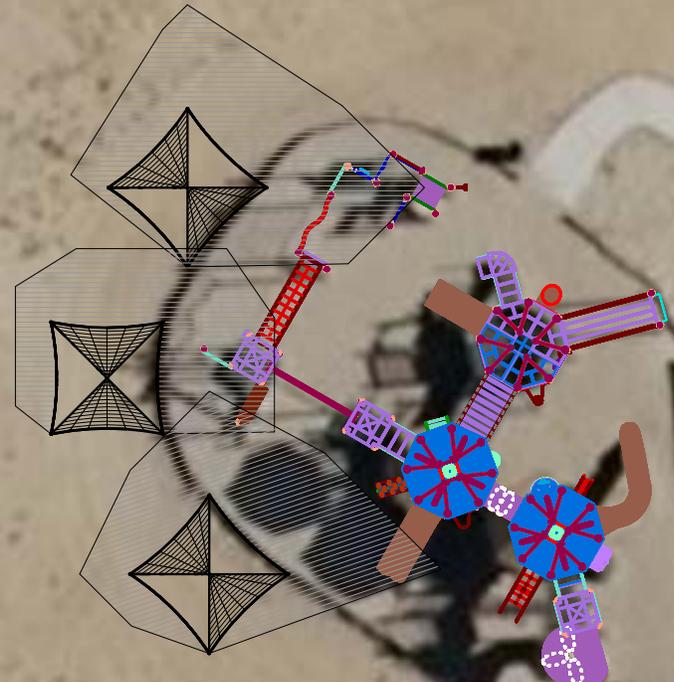
MRC PARK - 205 CAJA DEL RIO RD.

**PLAN LEGEND**



NEW UMBRELLA SHADE  
STRUCTURE TO REPLACE  
PLAY STRUCTURE POST  
AS DRAWN

QUANTITY: (3)  
POST COLOR: GREEN  
FABRIC COLOR: ARIZONA



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
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PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE: MRC PARK

DATE OF LAST EDIT: 4/13/2015

SCALE: 1"=20'-0" SITE PLAN ORTIZ PARK - 160 CAMINO DE LA CRUCITAS



**PLAN LEGEND**

 NEW UMBRELLA SHADE STRUCTURE

QUANTITY: (2)  
 POST COLOR: GREEN  
 FABRIC COLOR: ARIZONA



**GENERAL PLAN NOTES**

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PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

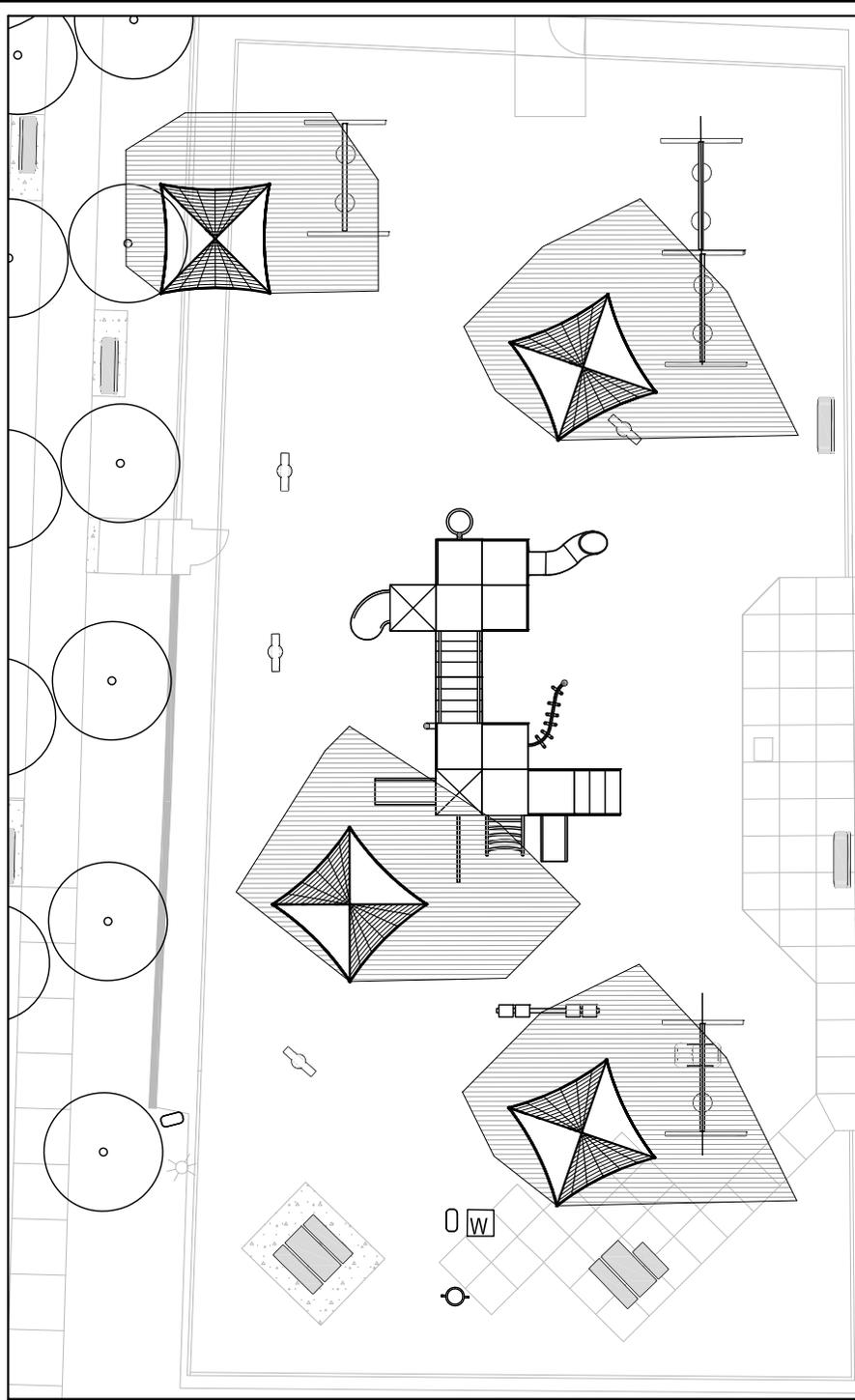
TITLE: ORTIZ PARK

DATE OF LAST EDIT: 1/16/2015

**PLAN LEGEND**



NEW UMBRELLA  
SHADE STRUCTURE  
  
QUANTITY: (4)  
POST COLOR: GREEN  
FABRIC COLOR: YELLOW



**GENERAL PLAN NOTES**

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PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005  
 TITLE: PEREZ PARK  
 DATE OF LAST EDIT: 1/16/2015

PUEBLOS DEL SOL PARK - 3120 PUEBLO SAPAWE SITE PLAN SCALE: 1"=20'-0"



**PLAN LEGEND**

 NEW UMBRELLA SHADE STRUCTURE

QUANTITY: (2)  
 POST COLOR: GRAY  
 FABRIC COLOR: RAIN FOREST



**GENERAL PLAN NOTES**

1. FIELD VERIFY AND DEMARCATTE AS APPROPRIATE, ALL SAFETY ZONES OF ALL PLAY EQUIPMENT PRIOR TO UMBRELLA SHADE INSTALLATION.
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FACILITIES  
 LOCALS & PARKS  
 PROJECTS  
 The City of  
 Santa Fe  
 CIP  
 DEVELOPMENT

PROJECT: CITY OF SANTA FE  
 PARK PLAYGROUND SHADE STRUCTURES - NM STATE C.A.P. #14/2005

TITLE: PUEBLOS DEL SOL PARK

DATE OF LAST EDIT: 1/16/2015