

HISTORIC AND DESIGN REVIEW COMMISSION

December 04, 2019

HDRC CASE NO: 2019-706
ADDRESS: 5626 SAN FERNANDO ST
LEGAL DESCRIPTION: NCB 16609 BLK LOT 1
ZONING: R-4
CITY COUNCIL DIST.: 6
APPLICANT: Justin Sherwood/Open Air Studios
OWNER: CITY OF SAN ANTONIO
TYPE OF WORK: Park improvements
APPLICATION RECEIVED: November 12, 2019
60-DAY REVIEW: January 6, 2020
CASE MANAGER: Rachel Rettaliata

REQUEST:

The applicant requests a Certificate of Appropriateness to:

1. Construct a new shade structure accessibility next to existing playground,
2. Construct a new sidewalk extension to access new shade structure,
3. Install new LED pole lighting to improve site lighting along walking trail. Construction of new LED field lighting to improve lighting around existing Pony Fields has been proposed as an Add/Alternate.

APPLICABLE CITATIONS:

UDC Sec. 35-641. - Design Considerations for Historic and Design Review Commission Recommendations.

In reviewing an application, the historic and design review commission shall be aware of the importance of attempting to find a way to meet the current needs of the City of San Antonio, lessee or licensee of public property. The historic and design review commission shall also recognize the importance of recommending approval of plans that will be reasonable to implement. The best urban design standards possible can and should be employed with public property including buildings and facilities, parks and open spaces, and the public right-of-way. Design and construction on public property should employ such standards because the use of public monies for design and construction is a public trust. Public commitment to quality design should encourage better design by the private sector. Finally, using such design standards for public property improves the identity and the quality of life of the surrounding neighborhoods.

UDC Sec 35-642. – New Construction of Buildings and Facilities:

In considering whether to recommend approval or disapproval of a certificate, the historic and design review commission shall be guided by the following design considerations. These are not intended to restrict imagination, innovation or variety, but rather to assist in focusing on design principles, which can result in creative solutions that will enhance the city and its neighborhoods. Good and original design solutions that meet the individual requirements of a specific site or neighborhood are encouraged and welcomed.

(a) Site and Setting.

(1) Building sites should be planned to take into consideration existing natural climatic and topographical features. The intrusive leveling of the site should be avoided. Climatic factors such as sun, wind, and temperature should become an integral part of the design to encourage design of site-specific facilities which reinforces the individual identity of a neighborhood and promotes energy efficient facilities.

(2) Special consideration should be given to maintain existing urban design characteristics, such as setbacks, building heights, streetscapes, pedestrian movement, and traffic flow. Building placement should

enhance or create focal points and views. Continuity of scale and orientation shall be emphasized.

(3) Accessibility from streets should be designed to accommodate safe pedestrian movement as well as vehicular traffic. Where possible, parking areas should be screened from view from the public right-of-way by attractive fences, berms, plantings or other means.

(4) Historically significant aspects of the site shall be identified and if possible incorporated into the site design. Historic relationships between buildings, such as plazas or open spaces, boulevards or axial relationships should be maintained.

(b) Building Design.

(1) Buildings for the public should maintain the highest quality standards of design integrity. They should elicit a pride of ownership for all citizens. Public buildings should reflect the unique and diverse character of San Antonio

and should be responsive to the time and place in which they were constructed.

(2) Buildings shall be in scale with their adjoining surroundings and shall be in harmonious conformance to the identifying quality and characteristics of the neighborhood. They shall be compatible in design, style and materials. Reproductions of styles and designs from a different time period are not encouraged, consistent with the secretary of the interior's standards. Major horizontal and vertical elements in adjoining sites should be respected.

(3) Materials shall be suitable to the type of building and design in which they are used. They shall be durable and easily maintained. Materials and designs at pedestrian level shall be at human scale, that is they shall be designed to be understood and appreciated by someone on foot. Materials should be selected that respect the historic character of the surrounding area in texture, size and color.

(4) Building components such as doors, windows, overhangs, awnings, roof shapes and decorative elements shall

all be designed to contribute to the proportions and scale of their surrounding context. Established mass/void relationships shall be maintained. Patterns and rhythms in the streetscape shall be continued.

(5) Colors shall be harmonious with the surrounding environment, but should not be dull. Choice of color should reflect the local and regional character. Nearby historic colors shall be respected.

(6) Mechanical equipment or other utility hardware should be screened from public view with materials compatible with the building design. Where possible, rooftop mechanical equipment should be screened, even from above. Where feasible, overhead utilities should also be underground or attractively screened. Exterior lighting shall be an integral part of the design. Interior lighting shall be controlled so that the spillover lighting onto public walkways is not annoying to pedestrians.

(7) Signs which are out of keeping with the character of the environment in question should not be used.

Excessive size and inappropriate placement on buildings results in visual clutter. Signs should be designed to relate harmoniously to exterior building materials and colors. Signs should express a simple clear message with wording kept to a minimum.

(8) Auxiliary design. The site should take into account the compatibility of landscaping, parking facilities, utility and service areas, walkways and appurtenances. These should be designed with the overall environment in mind and should be in visual keeping with related buildings, structures and places.

FINDINGS:

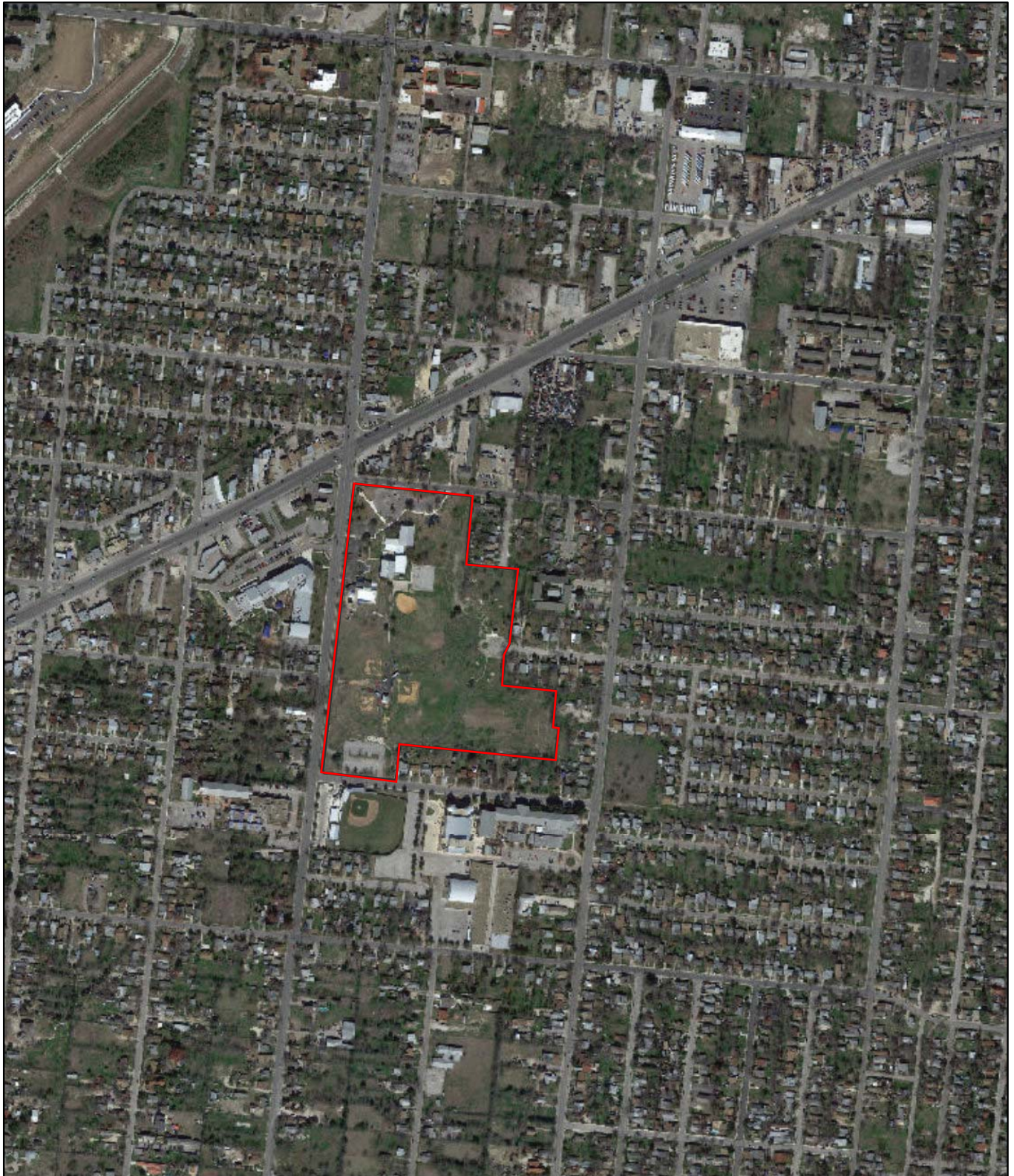
- a. The property at 5626 San Fernando, commonly known as Cuellar Park, is located to the west of downtown, outside of the Westlawn neighborhood. The project is funded by the 2017 Bond Program.
- b. PAVILION – The applicant has proposed to construct a new metal fabricated shade structure with concrete slab for accessibility next to existing playground. Staff finds the proposal generally consistent with the UDC.
- c. SIDEWALKS AND PAVING – The applicant has proposed to install a new sidewalk extension to access new shade structure. Materials include medium broom finished concrete sidewalk and medium broom finished concrete slab. Staff finds the proposal generally consistent with the UDC.
- d. LIGHTING – The applicant has proposed to install new LED pole lighting to improve site lighting along walking trail. Construction of new LED field lighting to improve lighting around existing Pony Fields has been proposed as an Add/Alternate. Staff finds the proposal consistent with the UDC.
- e. ARCHAEOLOGY – The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

RECOMMENDATION:

Staff recommends final approval based on findings a through h with the following stipulations:

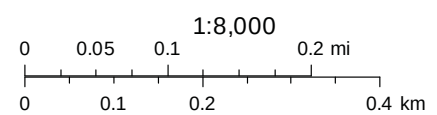
- f. ARCHAEOLOGY – The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

City of San Antonio One Stop

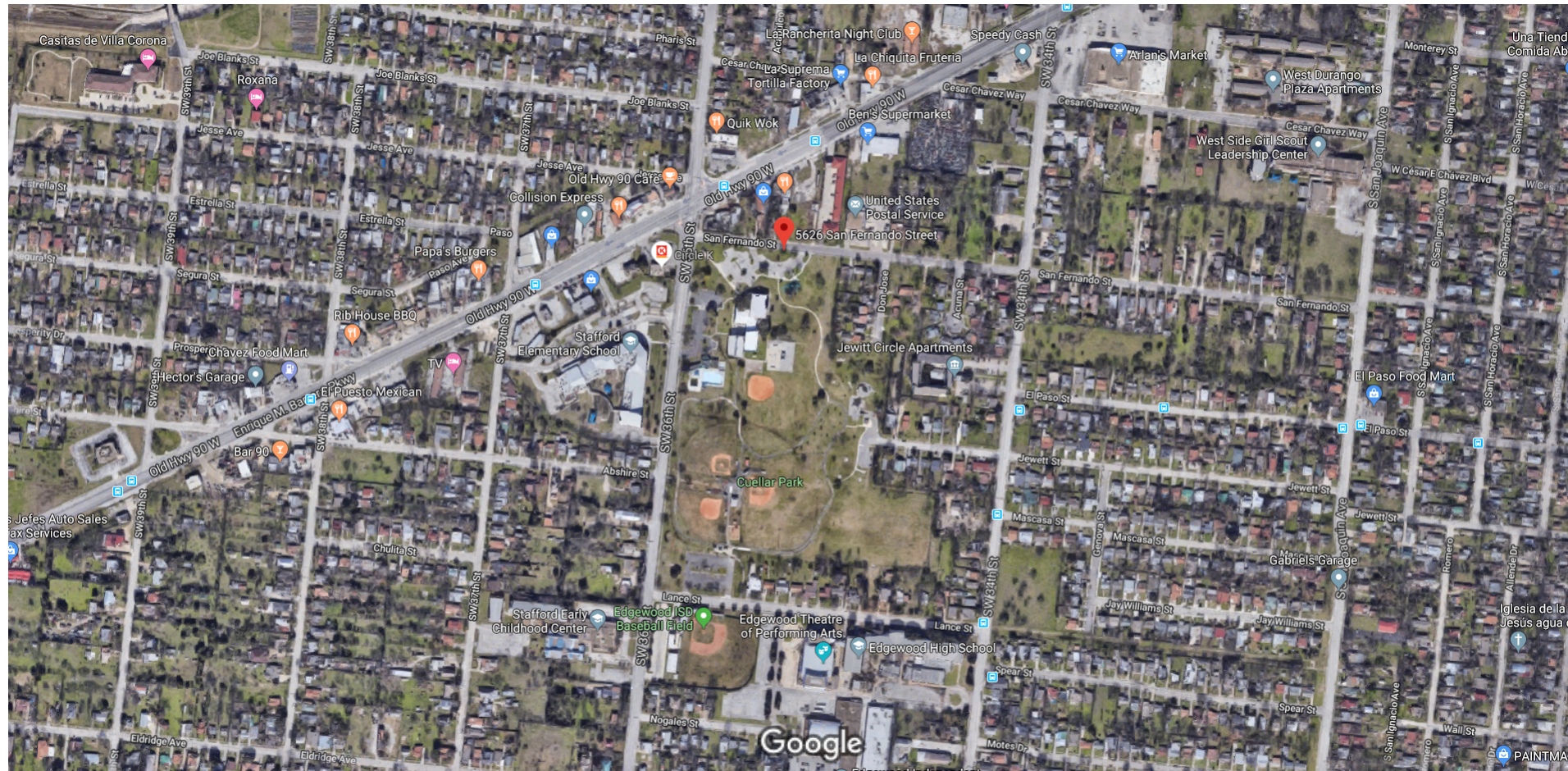


November 19, 2019

 User drawn lines



Google Maps 5626 San Fernando St



Imagery ©2019 Google, Imagery ©2019 Maxar Technologies, USDA Farm Service Agency, Map data ©2019 200 ft

Google Maps 5626 San Fernando St



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Google Maps 5626 San Fernando St



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Google Maps 5626 San Fernando St

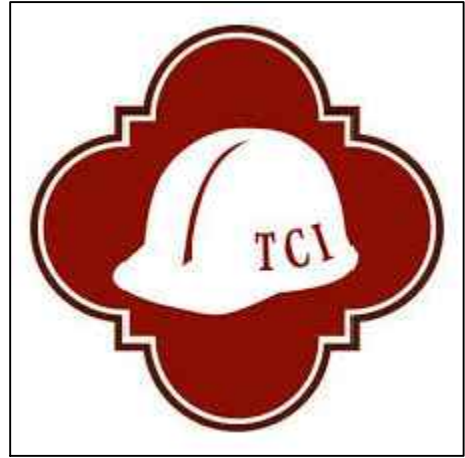


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Google Maps 5626 San Fernando St



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CITY OF SAN ANTONIO

CUELLAR PARK IMPROVEMENTS

5626 SAN FERNANDO STREET
SAN ANTONIO, TEXAS



CITY MANAGER

ERIK WALSH

INTERIM DIRECTOR OF TCI

RAZI HOSSEINI, P.E.

INTERIM DIRECTOR OF PARKS AND RECREATION

HOMER GARCIA

PROJECT MANAGER

JAMAAL MORENO

PH. # 210-207-6924

PRIME CONSULTANT

OPEN AIR STUDIOS, LLC
LANDSCAPE ARCHITECT

PH. # 210-908-6736

MEP ENGINEER

CNG ENGINEERING

PH. # 210-224-8841

SHEET INDEX

LANDSCAPE ARCHITECTURE

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TP.02 TREE PRESERVATION DETAILS

D1.01 DEMOLITION PLAN

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L1.02 MATERIALS PLAN

L1.03 MATERIALS PLAN

L1.04 SHADE STRUCTURE AND SIDEWALK
LAYOUT PLAN

L2.01 HARDSCAPE SITE DETAILS

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MECHANICAL / ELECTRICAL / PLUMBING

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AND SCHEDULES

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E4.01 ELECTRICAL LIGHTING

PHOTOMETRICS

E4.02 ELECTRICAL LIGHTING

PHOTOMETRICS

DATE OF ISSUE: 11/01/2019

PROJECT NUMBER

23-01652

FUNDING

2017 BOND PROGRAM

CITY COUNCIL

MAYOR

RON NIRENBERG

COUNCIL

ROBERTO TREVINO	DISTRICT 1
JADA ANDREWS-SULLIVAN	DISTRICT 2
REBECCA VIAGRAN	DISTRICT 3
DR. ADRIANA ROCHA GARCIA	DISTRICT 4
SHIRLEY GONZALES	DISTRICT 5
MELISSA CABELLO HAVRDA	DISTRICT 6
ANA SANDOVAL	DISTRICT 7
MANNY PELAEZ	DISTRICT 8
JOHN COURAGE	DISTRICT 9
CLAYTON PERRY	DISTRICT 10

OUR MISSION: THROUGH INNOVATION AND DEDICATION, WE BUILD AND
MAINTAIN SAN ANTONIO'S INFRASTRUCTURE

TRANSPORTATION AND CAPITAL IMPROVEMENTS DEPARTMENT

MUNICIPAL PLAZA BUILDING 114 W. COMMERCE SAN ANTONIO, TX 78238 PH # 210-207-8413 FAX # 210-207-2197

"Although it is not the responsibility of the City to provide sets of drawings and/or specifications to the successful Contractor for the construction of this project, the City may provide extra or returned sets that are available, if any from the bidding process. All other sets as deemed required by the Contractor, for the purposes of construction of this project, shall be obtained and paid by the Contractor."

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402

Texas Pollutant Discharge Elimination System (TPDES) TXR 150000: Stormwater Discharge Permit or Construction General Permit (CGP) required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 540.

☐ No Action Required ☒ Required Action

Action No.

- Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000.
- Comply with the Storm Water Pollution Prevention Plan (SW3P) and revise when necessary to control pollution or required by the Engineer.
- Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and Texas Commission on Environmental Quality (TCEQ), Environmental Protection Agency (EPA) or other inspectors.
- When Contractor project specific locations (PSL's) increase disturbed soil area to 5 acres or more, Contractor shall submit Notice of Intent (NOI) to TCEQ and the COSA Inspector.
- NOI required: ☐ Yes ☒ No

Note: If amount of soil disturbance changes, permit requirements may change.

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404

US Army Corps of Engineers (USACE) Permit required for filling, dredging, excavating or other work in any potential USACE jurisdictional water, such as, rivers, creeks, streams, or wetlands.

The Contractor shall adhere to all of the terms and conditions associated with the following permit(s):

- ☒ No Permit Required
- ☐ Nationwide Permit (NWP) 14 - Pre-construction Notice (PCN) not Required
- ☐ Nationwide Permit 14 - PCN Required
- ☐ Individual 404 Permit Required
- ☐ Other Nationwide Permit Required: NWP# _____

Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices (BMPs) planned to control erosion, sedimentation and post-project total suspended solids (TSS).

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401 Best Management Practices: (Not applicable if no USACE permit)

Erosion

- ☐ Temporary Vegetation
- ☐ Blankets/Matting
- ☐ Mulch
- ☐ Sodding
- ☐ Interceptor Swale
- ☐ Diversion Dike
- ☐ Erosion Control Compost
- ☐ Mulch Filter Berm and Socks
- ☐ Compost Filter Berm and Socks

Sedimentation

- ☐ Silt Fence
- ☐ Rock Berm
- ☐ Triangular Filter Dike
- ☐ Sand Bag Berm
- ☐ Straw Bale Dike
- ☐ Brush Berms
- ☐ Erosion Control Compost
- ☐ Mulch Filter Berm and Socks
- ☐ Compost Filter Berm and Socks
- ☐ Stone Outlet Sediment Traps
- ☐ Sediment Basins

Post-Construction TSS

- ☐ Vegetative Filter Strips
- ☐ Retention/Irrigation Systems
- ☐ Extended Detention Basin
- ☐ Constructed Wetlands
- ☐ Wet Basin
- ☐ Erosion Control Compost
- ☐ Mulch Filter Berm and Socks
- ☐ Compost Filter Berm and Socks
- ☐ Vegetation Lined Ditches
- ☐ Sand Filter Systems
- ☐ Sedimentation Chambers
- ☐ Grassy Swales

III. CULTURAL RESOURCES

Cultural resources fall under the Antiquities Code of Texas and/or the National Historic Preservation Act, as amended in 1966. If a previously unidentified archeological site is encountered during construction work, activities should be immediately stopped in the vicinity and the City Archeologist (210-207-7306) notified and/or the SHPO.

☒ No Action Required ☐ Required Action

Action No.

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IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical. Contractor must adhere to Construction Specification Requirements Specs 162,164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.

☐ No Action Required ☒ Required Action

Action No.

- Ensure that a tree permit is in place for this project, if required.
- Follow the tree preservation/mitigation plan provided in the design plan set. If there are any questions or concerns, please contact the City Arborist at 210-207-0278, before any work begins.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.

☒ No Action Required ☐ Required Action

Action No.

- MIGRATORY BIRD NESTS: Schedule construction activities as needed to meet the following requirements:
 - Do not remove or destroy any active migratory bird nests (nests containing eggs and/or flightless birds) at any time of year. If there are any active nests, they shall not be removed until the nests become inactive.
 - On/in structures, if there are any active nests, they shall not be removed until all nests become inactive. After inactive nests are removed and/or before nest activity begins, deterrent materials may be applied to the structures to prevent future nest building.
- Deterrent material should be placed (and maintained) after October 1 or before February 15.
- The preferred nesting season for migratory birds is from February 15 through October 1. When practicable, schedule construction operations outside of the preferred nesting season.

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the COSA Inspector immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediated area, and contact the COSA Inspector immediately.

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act.

Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the COSA Inspector immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the COSA Inspector if any of the following are detected:

- * Dead or distressed vegetation (not identified as normal)
- * Trash piles, drums, canister, barrels, etc.
- * Undesirable smells or odors
- * Evidence of leaching or seepage of substances

Hazardous Materials or Contamination Issues Specific to this Project:

☒ No Action Required ☐ Required Action

Action No.

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Does the project involve the demolition of a span bridge?

☐ Yes ☒ No (No further action required)

If "Yes", a pre- demolition notification must be submitted to the Texas Department of State Health Services. The contractor shall contact the Project Engineer 25 calendar days prior to the demolition of the bridges(s) on the project to assist with the notification.

VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

☒ No Action Required ☐ Required Action

Action No.

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Cuellar Park (2017 Bond)
November 2019

ENVIRONMENTAL_PERMITS,
ISSUES_AND_COMMITMENTS
EPIC

FILE: epic.2015-10-09 SAT.dgn	DN: COSA	CK: COSA	DW:	CK:
©TxDOT NOVEMBER 2018	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.



LANDSCAPE ARCHITECTURE
PLANNING
URBAN DESIGN

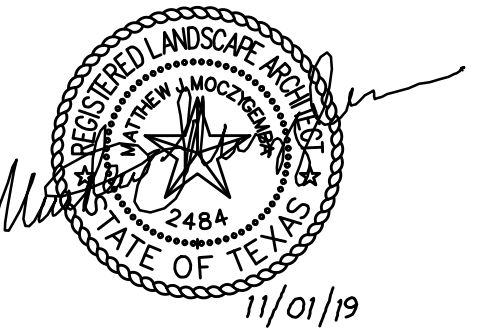
2722 W. BITTERS RD, STE #114
SAN ANTONIO, TX 78248

P: 210-908-6736
WWW.GOOPENAIR.COM

PROJECT:
CUELLAR PARK

OWNER:
CITY OF SAN ANTONIO

LOCATION:
SAN ANTONIO, TEXAS



PROJECT #: CSA20171

DESIGNED BY: JS

DRAWN BY: JS

REVIEWED BY: MM

ISSUED: NOV. 01, 2019

SHEET TITLE:

E.P.I.C.
SHEET

SHEET NUMBER:

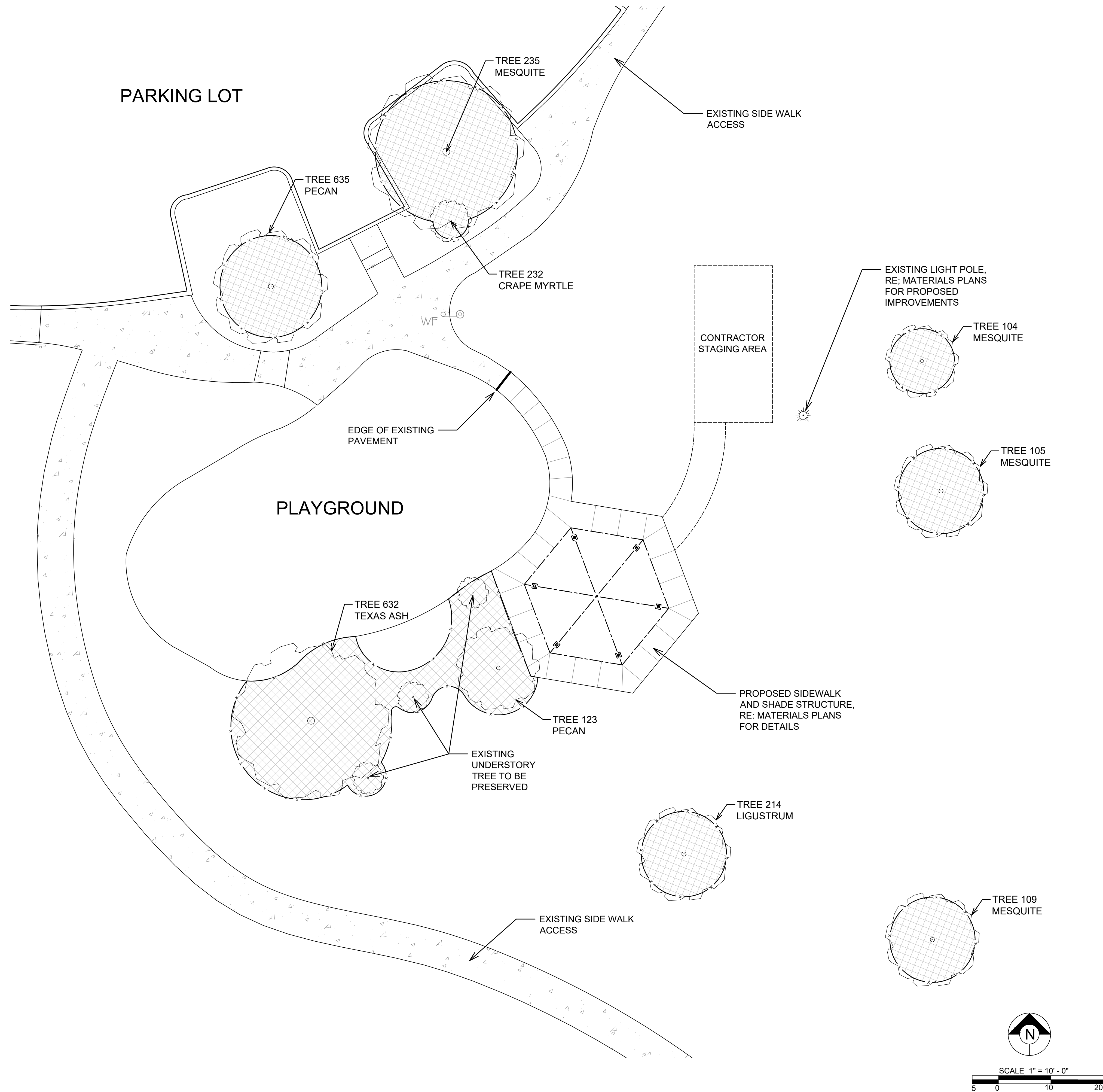
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TREE PROTECTION NOTES

- ROOT PRUNING
 - Prune roots within root zone areas of trees using hand-digging techniques.
 - Cut roots measuring one inch (1") in diameter or larger using sharpened pruning shears or pruning saw to make a clean, smooth-cut surface. Do not chop roots.
 - Large roots measuring three inches (3") in diameter and larger shall be cut using a sharpened saw.
 - Cut roots flush with edge of soil to limit root exposure.
 - Apply appropriate, non-toxic pruning paint labeled for horticultural use immediately to all wounds on trees.
- Route underground utility lines around tree root zone areas where possible.
- Where excavating is required within root zones, hand excavate and tunnel under or around roots to minimize damage and to preserve roots measuring one inch (1") in diameter and larger.
- Where excavation is unavoidable within root zone areas, proper tree root pruning techniques shall be used.
- Do not allow exposed roots to dry out before permanent backfill is in place.
- Maintain existing natural grade within the dripline of trees.
- Solid fill within root zone areas shall be free of harmful chemicals and adequate for supporting healthy root growth.
- Where existing grade around trees is below proposed finish grade place up to a maximum of three inches (3") of clean bank sand in a single layer to make the transition to new grade. Do not compact. Hand grade to required elevation. Large surface roots (that were exposed prior to construction) shall remain exposed.
- Contractor to receive written authorization from the landscape architect prior to initiation of any construction activity and/or tree preservation activities that take place within the tree preservation zone.
- There shall not be storage of any materials, equipment, soil etc. under dripline of existing trees.
- If construction activity is to occur close to any trees not identified for protection, contractor is responsible to install additional protection fencing if required.
- All sidewalks installed under tree's dripline to be hand dug. Landscape architect to approve location prior to digging, etc.
- If hand grading is required within dripline, no fill should be added. Contractor to have approval from certified arborist before grading areas under tree dripline.
- Refer to civil drawings for all existing and proposed utilities, rights of ways, and easements.
- Refer to tree preservation specifications for pruning of existing trees where vehicular traffic or construction conflicts with existing tree canopy.
- Contractor to stake tree protection fencing for landscape architect approval. Contact landscape architect 48 hours prior to installation.
- Contractor to supply on-site certified arborist to supervise all tree protection, re-location, pruning, fertilizing, etc. work.
- All preserved trees to have tree protection fencing placed around trees at radius equal to 6" per diameter inch (1") of trunk of tree.
- All wounds to the trunk, limbs, and root system of oak trees in the city that expose sapwood shall be painted within thirty minutes of the wound being created with asphaltic or exterior oil or latex based paint.

LEGEND

- | | |
|--|-------------------------------|
| | EXISTING TREE TO BE PRESERVED |
| | EXISTING TREE TO BE REMOVED |
| | HARDWOOD MULCH |
| | TREE PROTECTION FENCE |

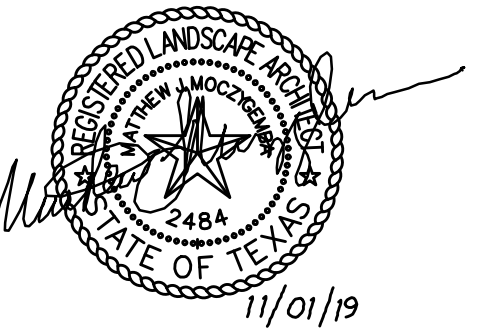


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PROJECT:
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OWNER:
CITY OF SAN ANTONIO

LOCATION:
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PROJECT #: CSA20171
DESIGNED BY: JS
DRAWN BY: JS
REVIEWED BY: MM
ISSUED: NOV. 01, 2019

SHEET TITLE:
TREE
PRESERVATION
PLAN

SHEET NUMBER:
TP. 01

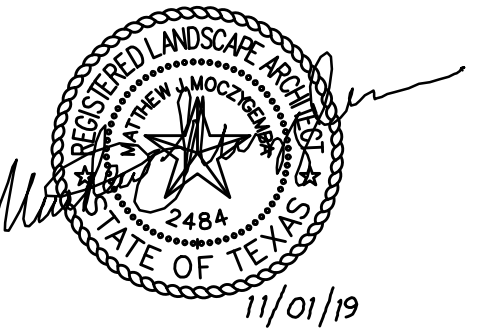


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DRAWN BY: JS
REVIEWED BY: MM
ISSUED: NOV. 01, 2019

SHEET TITLE:
TREE
PRESERVATION
DETAILS

SHEET NUMBER:
TP.02

TREE INVENTORY CUELLAR PARK																	
							Understory Species* 5.0" - 11.5"		Significant Tree 6" - 23.5"		Significant Tree** 10.0" - 23.5"		Heritage 3:1		Heritage 1:1		Notes
Tag #	Species	Tree Code	Size (inches)	Heritage (Y/N)	Save (Y/N)	Exempt Code	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	
105	MESQUITE	S2	18		Y							18					
632	TEXAS ASH	S1	30	Y	Y									30			
123	PECAN	S1	16		Y					16							
635	PECAN	S1	22		Y					22							
109	MESQUITE	S2	18		Y							18					
232	CRAPE MYRTLE	S1	8		Y					8							
235	MESQUITE	S2	30	Y	Y											30	
104	MESQUITE	S2	14		Y							14					
214	JAPANESE LIGUS	NN	14		Y												
Sub. Tot. Inches=							0	0	0	46	0	50	0	30	0	30	0
Total inches by category=									0	46	50	30	30				
Preservation percentage=							#DIV/0!		Significant		100%		Heritage Preservation		100%		
Mitigation required (Commercial) =							0		Commercial (inches)		XX		Heritage Mitigation (inches)				0
Mitigation required (Residential) =							0		Residential (inches)		-62						
										Exemption Codes			Additional Inches Preserved for Mitigation				0
										1 - Tree is in ROW							
										2 - Tree is in poor health							
* Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, Possumhaw - mitigated at 1:1 for Heritage																	
** Ashe Juniper, Huisache, Mesquite, Arizona Ash, Hackberry protected at 10" dbh and mitigated at 1:1 for Heritage																	
														Additional Inches Needed to meet Mitigation Requirements		0	
*** Mitigation Trees: Unprotected-sized trees to be used for mitigation calculations; subtract inches from mitigation owed																	

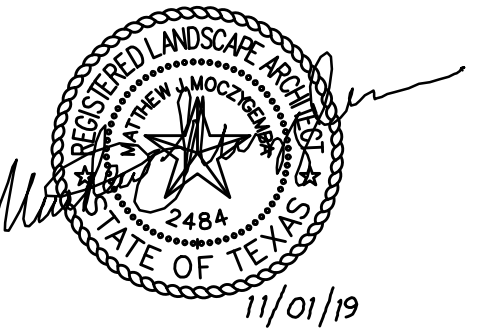


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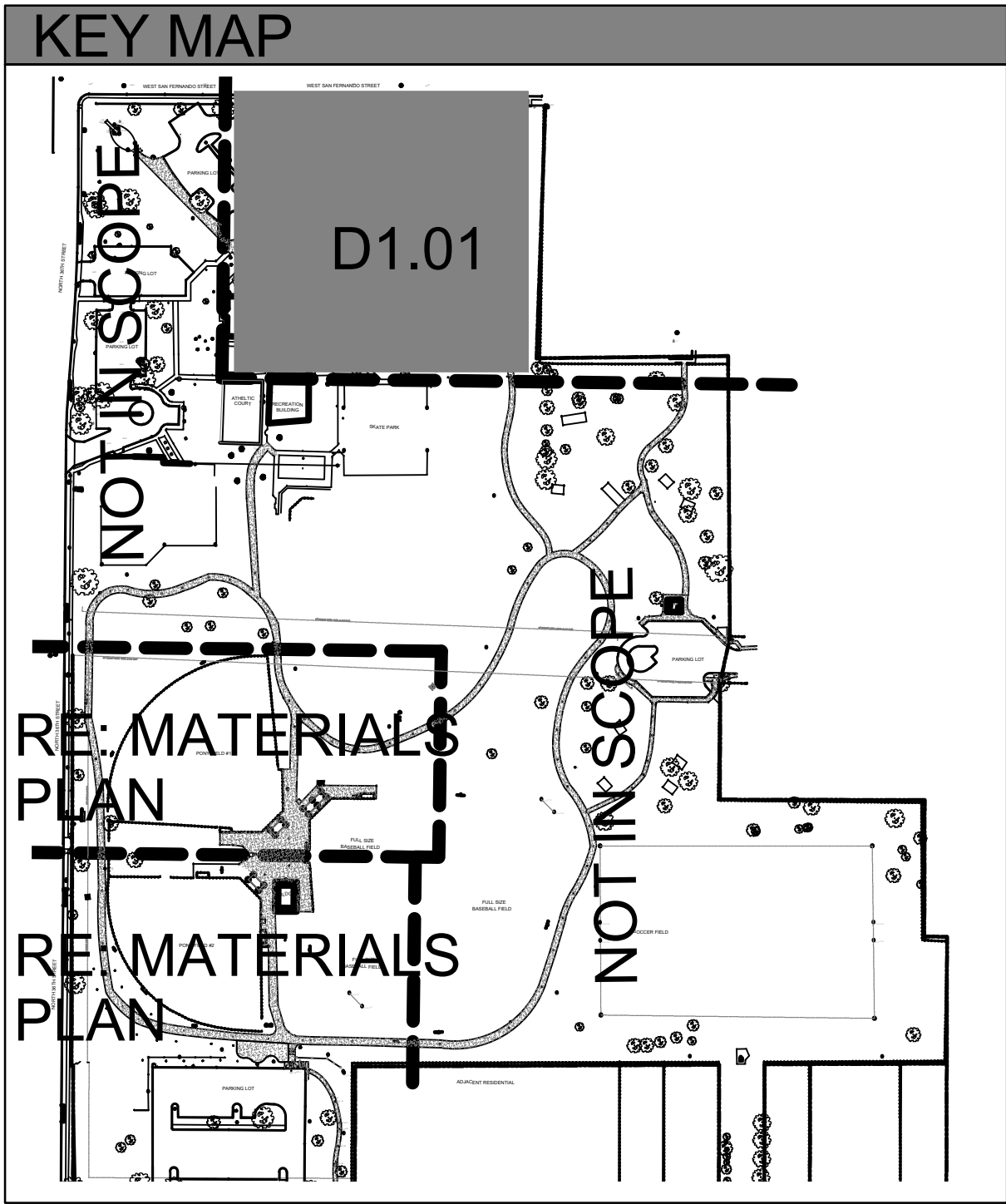


PROJECT #: CSA20171
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DRAWN BY: JS
REVIEWED BY: MM

ISSUED: NOV. 01, 2019

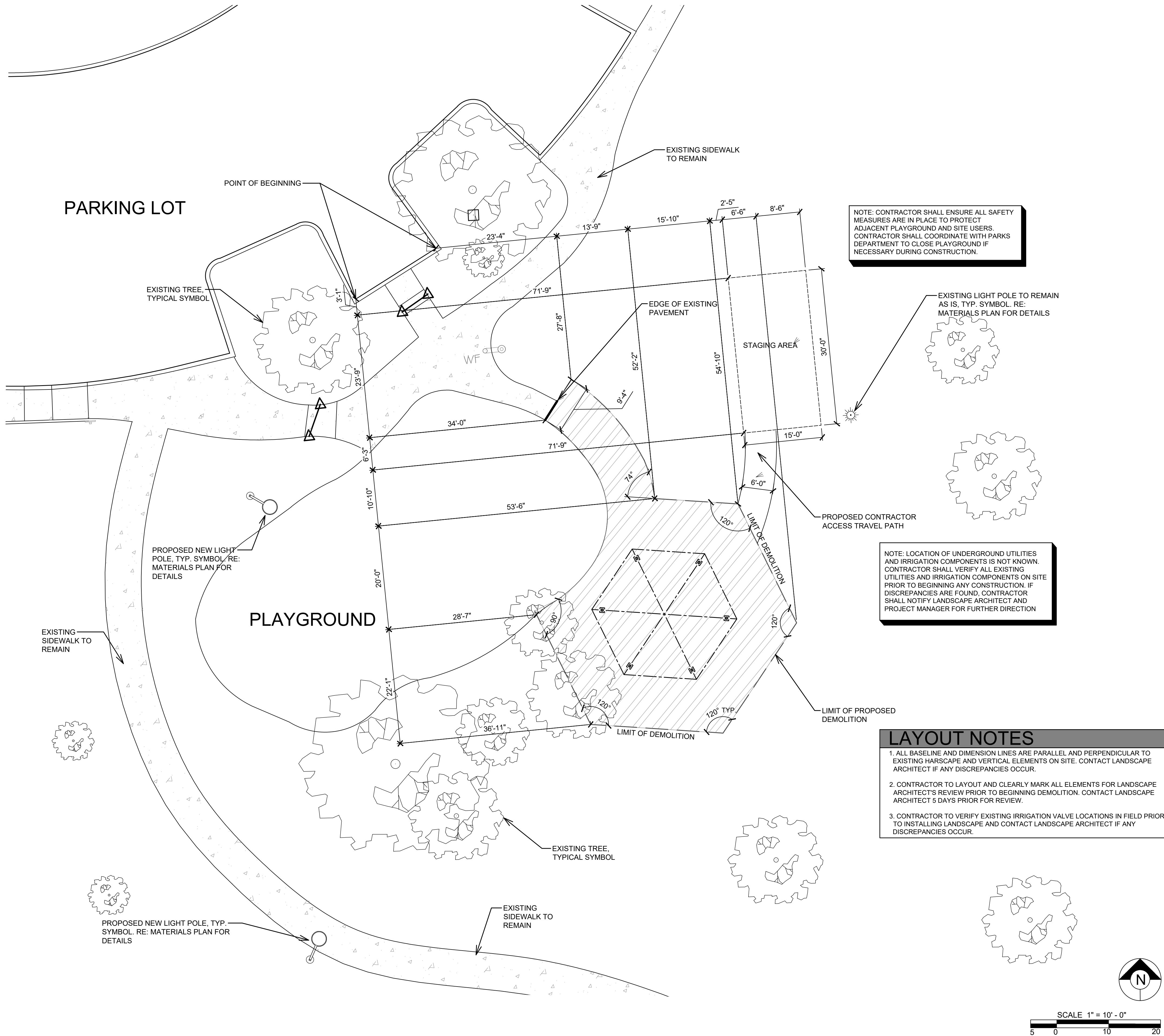
SHEET TITLE:
DEMOLITION
PLAN

SHEET NUMBER:
D1.01

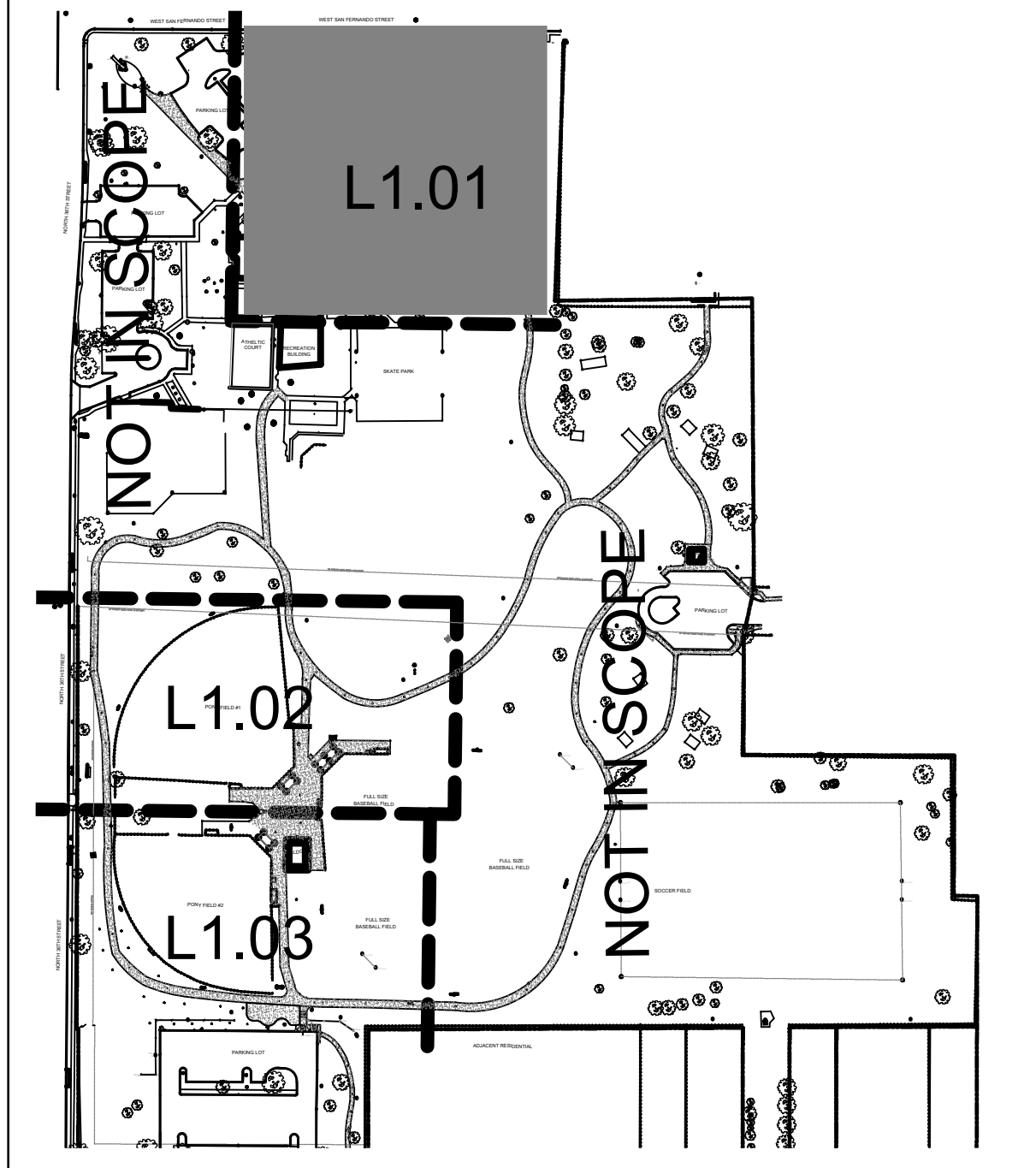


DEMOLITION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH THE SPECIFICATIONS AND ALL SUBMITTAL REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE LANDSCAPE ARCHITECT FOR SITE INSPECTIONS AS SPECIFIED IN THE SPECIFICATIONS. FAILURE TO NOTIFY THE LANDSCAPE ARCHITECT DOES NOT RELIEVE THE CONTRACTOR FROM INSPECTION APPROVAL AND WILL REQUIRE THE CONTRACTOR TO INSTALL WORK AS REQUIRED FOR APPROVAL BY THE LANDSCAPE ARCHITECT AND AT THE COST OF THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING AND STAGING AREA LOCATION (IF NEEDED) WITH THE OWNER. CONTRACTOR SHALL INSTALL A CONSTRUCTION FENCE AROUND PROPOSED SITE WORK AREAS WHERE APPROPRIATE AND IS RESPONSIBLE FOR THE SAFETY & SECURITY OF ALL ACTIVITIES AROUND THE CONSTRUCTION SITE. CONSTRUCTION FENCING SHALL MEET ALL CITY, STATE, AND FEDERAL GUIDELINES. RE: DEMOLITION FOR AREAS TO BE REMOVED, EROSION CONTROL, STAGING AREA (IF NEEDED), AND CONSTRUCTION PHASING FOR THE SITE.
- DURING THE SITE DEMOLITION PROCESS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT SITE ITEMS, EXISTING SITE STRUCTURES, EXISTING PAVING, AND EXISTING SITE UTILITIES UNLESS NOTED OTHERWISE ON PLANS. THE CONTRACTOR IS REQUIRED BY LAW TO NOTIFY TEXAS ONE CALL (800-245-4545) 72 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES WHETHER OR NOT TEXAS ONE CALL IS NOTIFIED. ALL REMOVED MATERIAL FROM SITE SHALL BE HAULED-OFF AND DISPOSED OF ACCORDINGLY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER CONTRACTORS AS REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. ALL PIPING, CONDUIT, SLEEVES, ETC. SHALL BE SET IN PLACE PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL ITEMS AS CALLED OUT PER THE PLAN AND THEIR TRANSPORT OFF-SITE.
- CONTRACTOR SHALL REFER TO TREE PRESERVATION PLANS FOR ALL PROTECTED TREES ON SITE. PROPOSED SITE IMPROVEMENTS ARE NOT TO DISTURB ANY EXISTING TREES ON SITE. RE: TREE PRESERVATION PLANS FOR TREE PROTECTION DETAILS. TREE PROTECTION METHODS AND FENCING MUST BE IN PLACE PRIOR TO START OF DEMOLITION.
- CONTRACTOR SHALL REFER TO M.E.P PLANS FOR ALL ELECTRICAL DEMOLITION WORK ON SITE.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON SITE AND CONTACT LANDSCAPE ARCHITECT FOR DIRECTION IF DISCREPANCIES ARE FOUND WITHIN THE FIELD.
- ALL EXISTING IMPROVEMENTS, MATERIALS, UTILITIES, AND PLANT MATERIAL TO REMAIN WITHIN NEW CONSTRUCTION AREA SHALL BE PROPERLY AND ADEQUATELY PROTECTED FROM DAMAGE DURING DEMOLITION OPERATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE TO THE ORIGINAL CONDITION OF THESE EXISTING ITEMS THAT ARE DAMAGED OR DISTURBED IN ANY WAY.
- STREETS AND ADJACENT PROPERTY SHALL BE PROTECTED THROUGHOUT THE WORK AS REQUIRED BY LOCAL CODES AND REGULATIONS.
- REFER TO STATE/CITY STANDARD PLANS AND SPECIFICATIONS WHERE APPLICABLE.
- DURING DEMOLITION OPERATIONS, EVERY EFFORT SHALL BE MADE TO CONTROL DUST PER CITY REQUIREMENTS.
- THE ENTIRE DEMOLITION AREA SHALL BE GRUBBED. GRUBBING SHALL INCLUDE ALL STUMPS AND ROOT SYSTEMS OF REMOVED PLANT MATERIAL AND ANY OTHER DELETERIOUS ITEMS. GRUBBING SHALL BE TO THE DEPTHS AS REQUIRED TO REMOVE THESE ITEMS.
- CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND FORMS PRIOR TO INSTALLATION OF PROPOSED ELEMENTS.



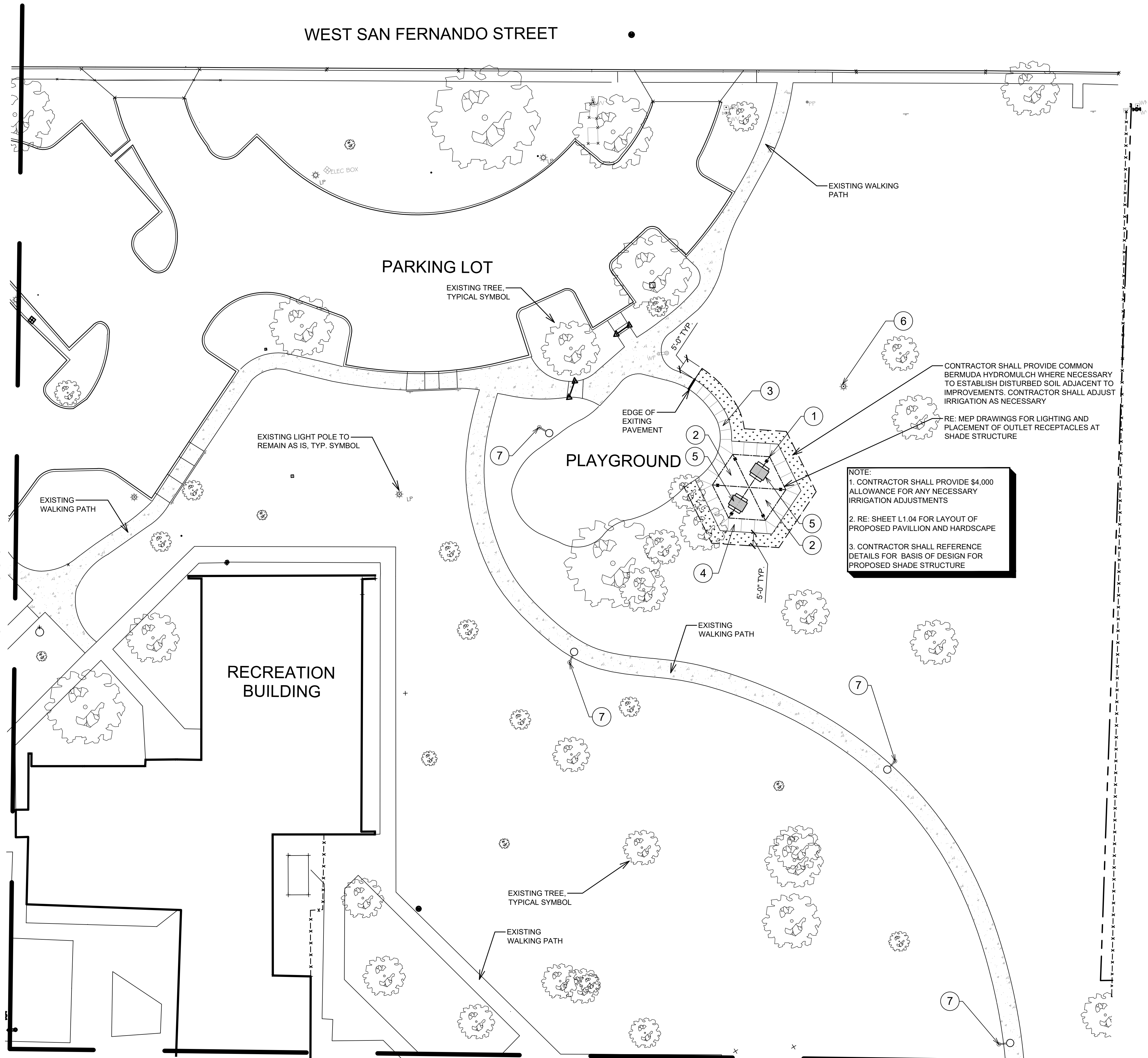
KEY MAP



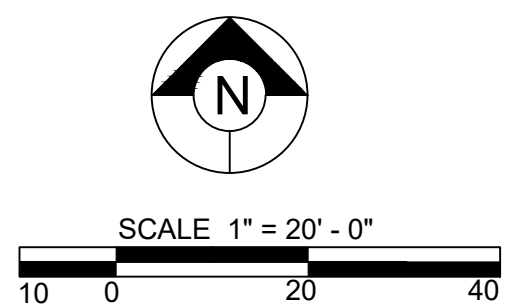
MATERIALS LEGEND

1.	28' DIAMETER SHADE STRUCTURE BY COVERWORX, MODEL #HX-28-SW. RE: DETAIL L2.02
2.	5" THICK MEDIUM BROOM FINISH CONCRETE SLAB WITH 12" TURN DOWN AT EDGE, RE: DETAIL L2.01
3.	4'-6" WIDE MEDIUM BROOM FINISH CONCRETE SIDEWALK CONTINUATION, 4" THICK. RE: DETAIL L2.01
4.	5'-0" WIDE MEDIUM BROOM FINISH CONCRETE SIDEWALK, 4" THICK. RE: DETAIL L2.01
5.	8M1200 STEEL FRAME PICNIC TABLE FROM TREE TOP PRODUCTS. COLOR TO BE CEDAR. ANCHOR TABLE TO SHADE STRUCTURE CONCRETE SLAB WITH EYE BOLT WEDGE ANCHOR AND CHAIN LOCK, 2 PER TABLE. FINAL LOCATION OF TABLE TO BE DETERMINED BY LANDSCAPE ARCHITECT. RE: DETAIL L2.02
6.	REPLACE EXISTING POLE LAMP WITH LED FIXTURE, RE: MEP DRAWINGS FOR DETAILS
7.	***ADD/ALT #1*** NEW LINE VOLTAGE LED TRAIL LIGHT, RE: MEP DRAWINGS FOR DETAILS
8.	***ADD/ALT #2*** 40' HEIGHT YOKE MOUNTED LED SPORTS LIGHT WITH UPLIGHT HOOD, BY BEACON LIGHTING FOR PONY FIELD 1 AND PANEL WORK AT EXISTING PANEL WITH CONDUIT RUNS NEEDED. RE: MEP DRAWINGS FOR DETAILS
9.	***ADD/ALT #3*** 40' HEIGHT YOKE MOUNTED LED SPORTS LIGHT WITH UPLIGHT HOOD, BY BEACON LIGHTING. RE: MEP DRAWINGS FOR DETAILS

NOT IN SCOPE



NOT IN SCOPE

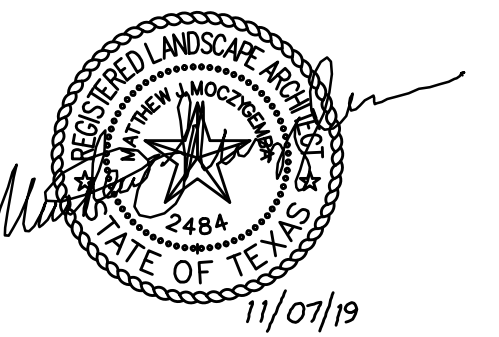


LANDSCAPE ARCHITECTURE
PLANNING
URBAN DESIGN
2722 W. BITTERS RD, STE #114
SAN ANTONIO, TX 78248
P: 210-908-6736
WWW.GOOPENAIR.COM

PROJECT:
CUELLAR PARK

OWNER:
CITY OF SAN ANTONIO

LOCATION:
SAN ANTONIO, TEXAS



PROJECT #: CSA20171
DESIGNED BY: JS
DRAWN BY: JS
REVIEWED BY: MM
ISSUED: NOV. 07, 2019

SHEET TITLE:
MATERIALS
PLAN

SHEET NUMBER:
L1.01

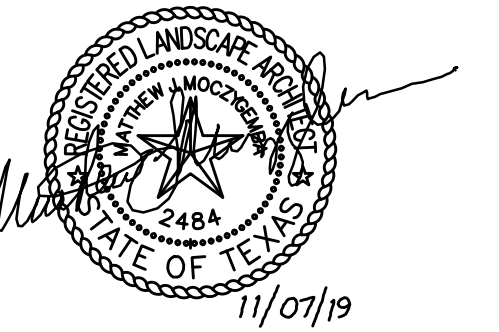


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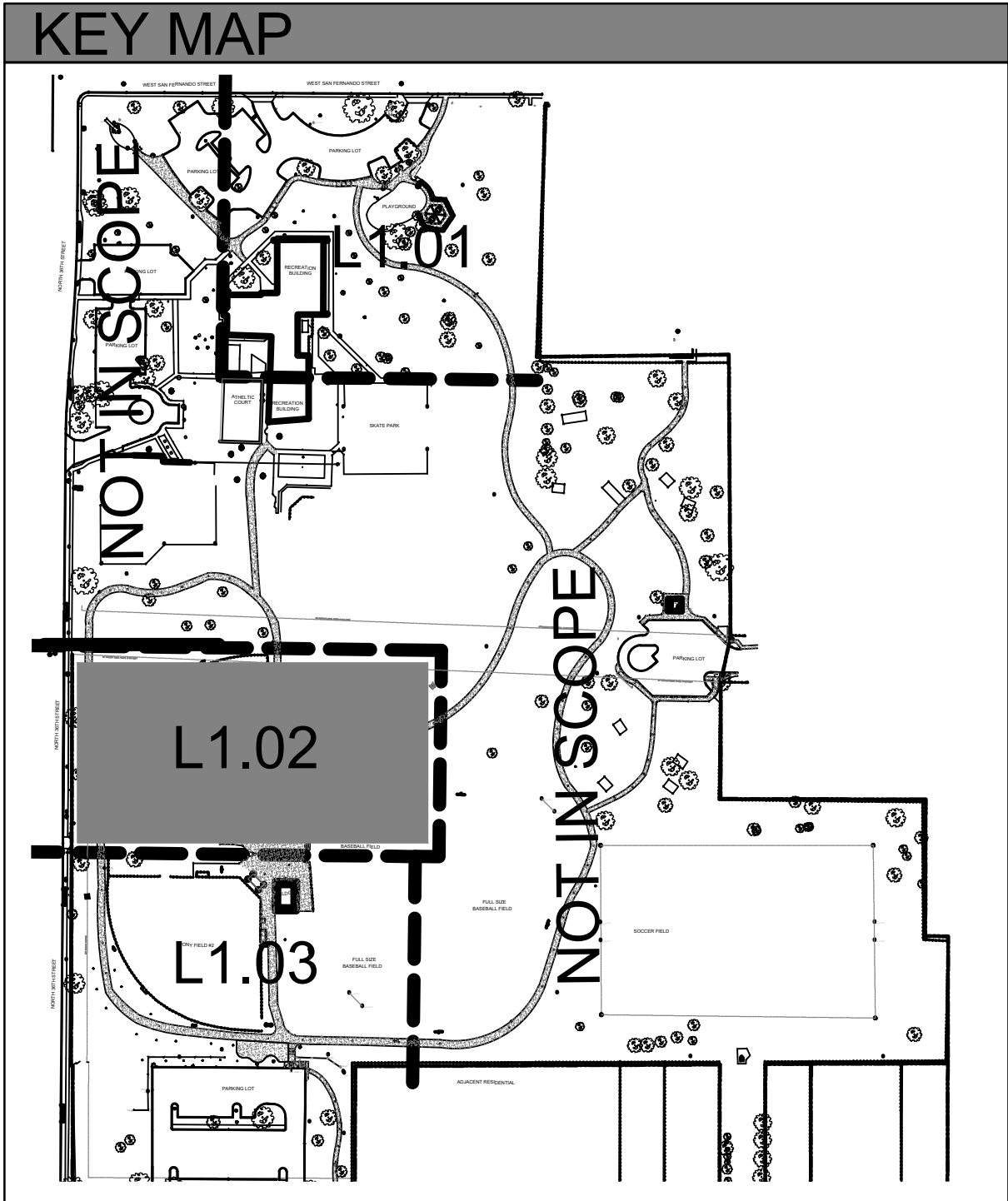
LOCATION:
SAN ANTONIO, TEXAS



PROJECT #: CSA20171
DESIGNED BY: JS
DRAWN BY: JS
REVIEWED BY: MM
ISSUED: NOV. 07, 2019

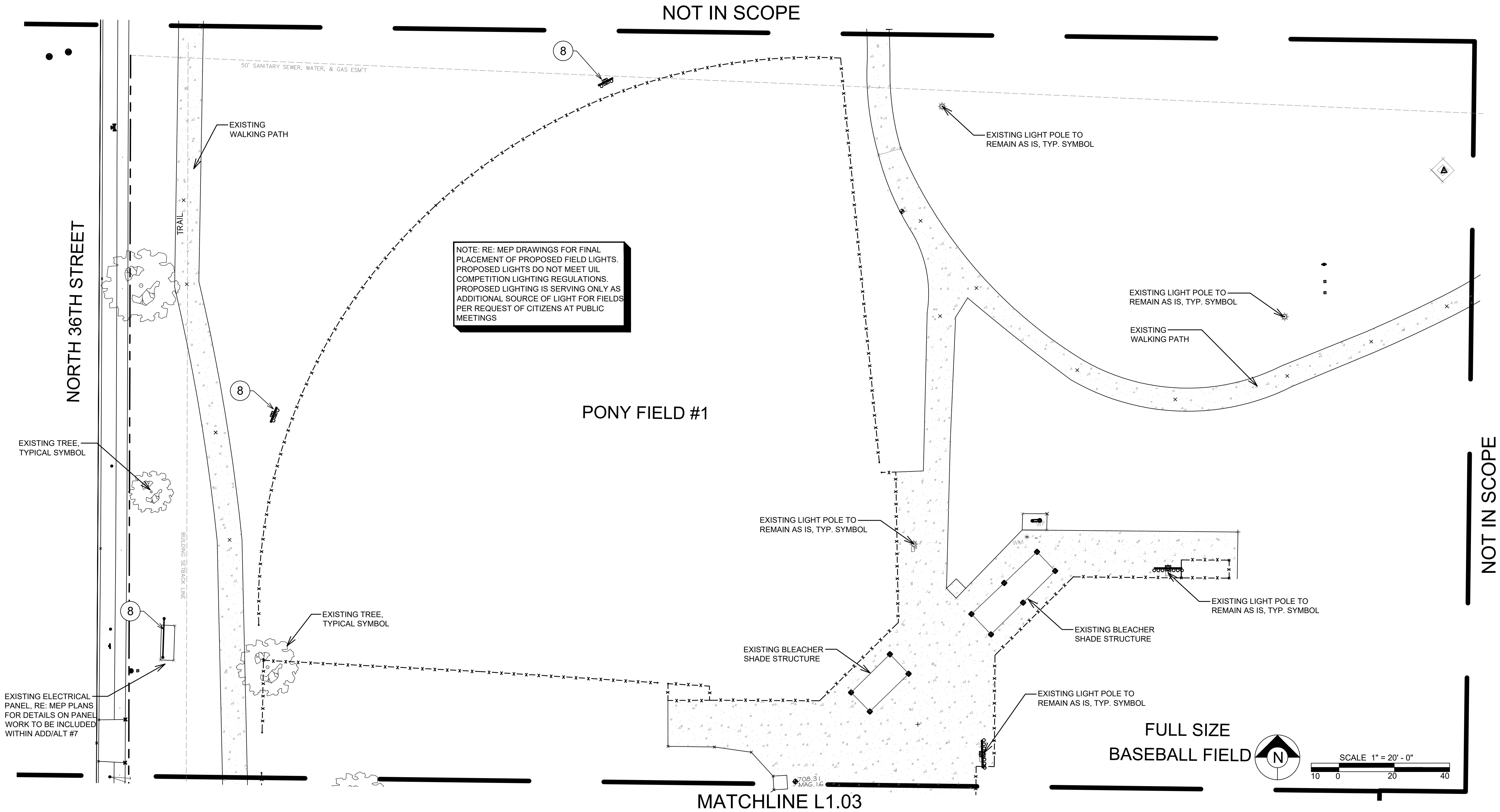
SHEET TITLE:
MATERIALS
PLAN

SHEET NUMBER:
L1.02

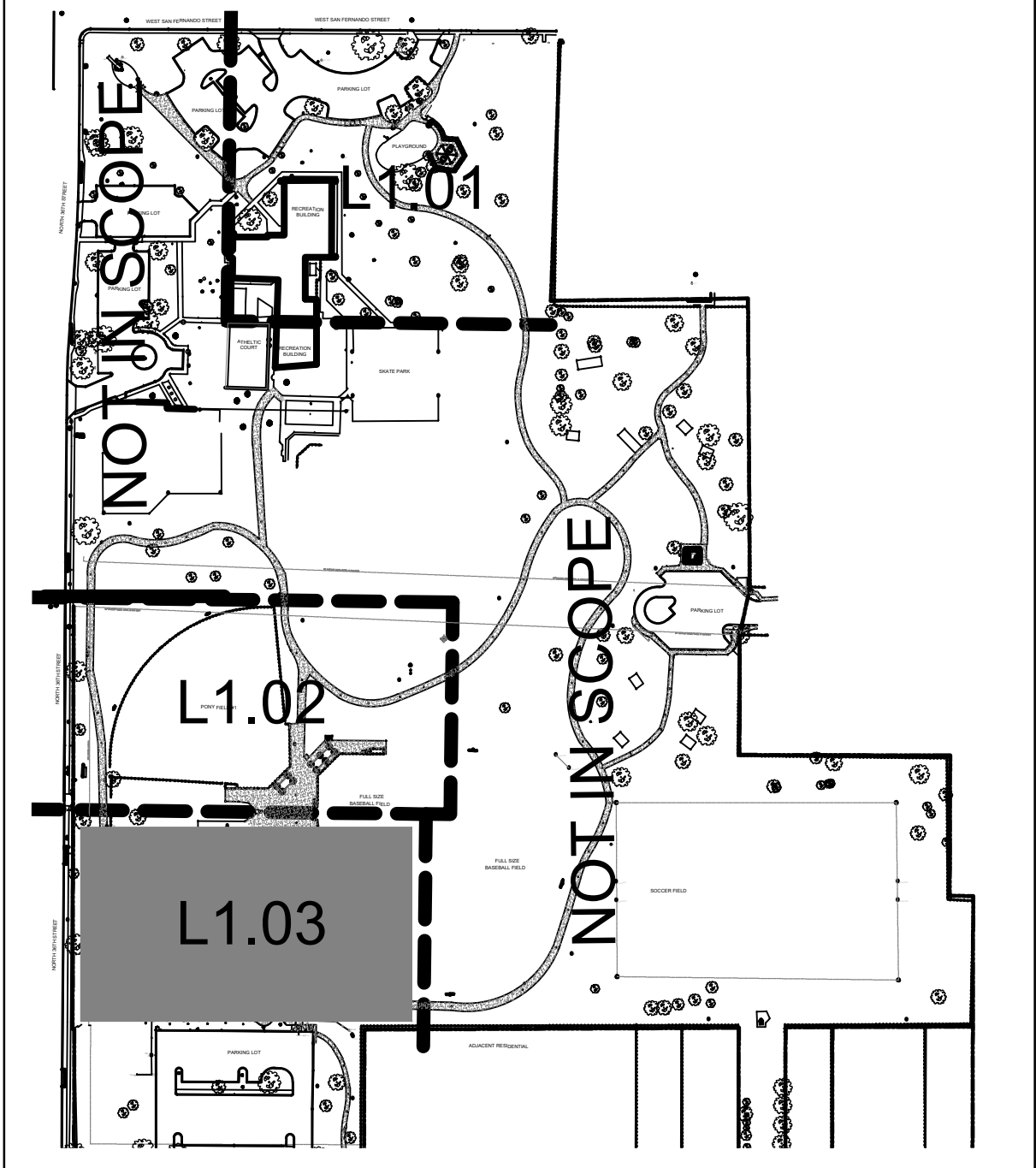


MATERIALS LEGEND

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6. REPLACE EXISTING POLE LAMP WITH LED FIXTURE, RE: MEP DRAWINGS FOR DETAILS
7. ***ADD/ALT #1*** NEW LINE VOLTAGE LED TRAIL LIGHT, RE: MEP DRAWINGS FOR DETAILS
8. ***ADD/ALT #2*** 40' HEIGHT YOKE MOUNTED LED SPORTS LIGHT WITH UPLIGHT HOOD, BY BEACON LIGHTING FOR PONY FIELD 1 AND PANEL WORK AT EXISTING PANEL WITH CONDUIT RUNS NEEDED. RE: MEP DRAWINGS FOR DETAILS
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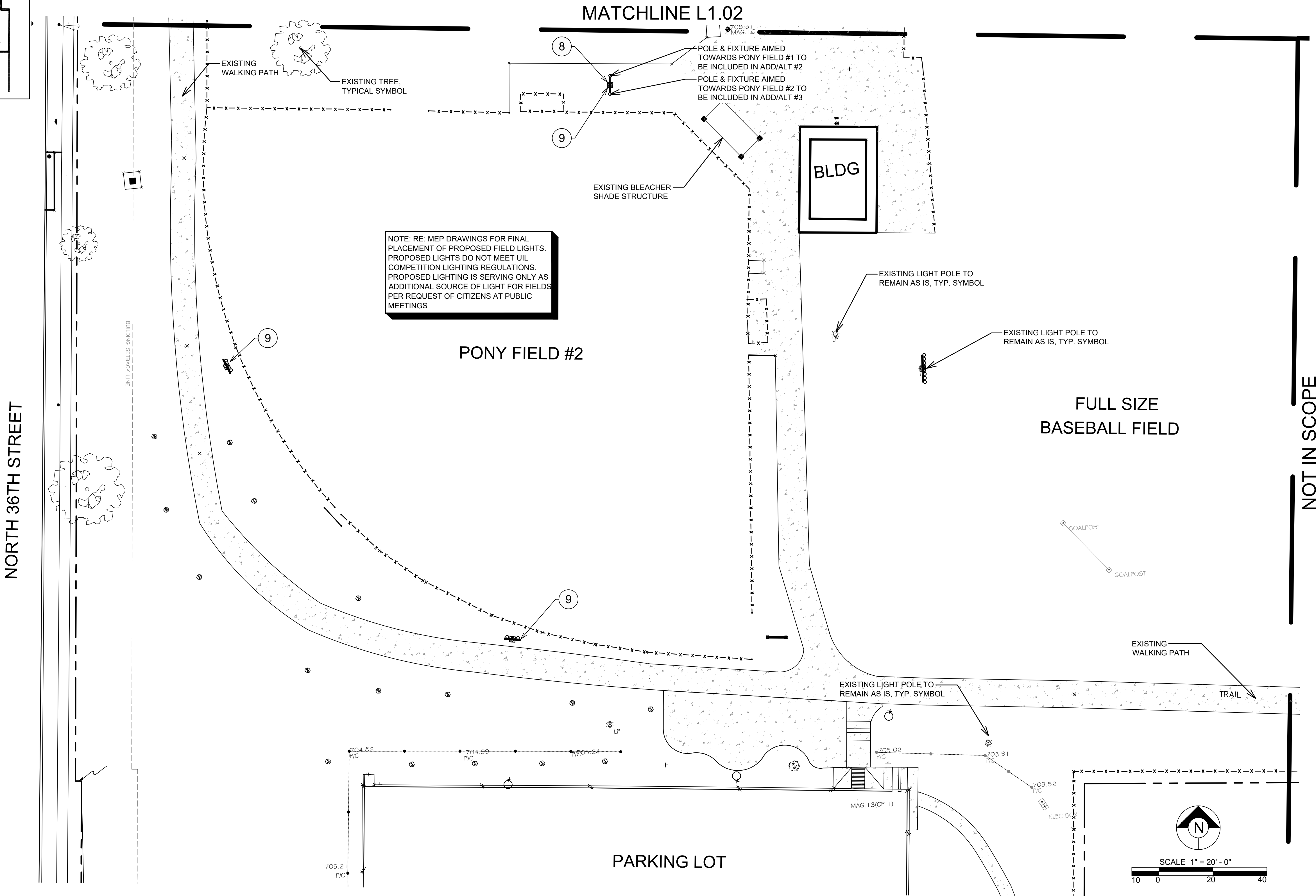


KEY MAP



MATERIALS LEGEND

1.	28" DIAMETER SHADE STRUCTURE BY COVERWORX, MODEL #HX-28-SW. RE: DETAIL L2.02
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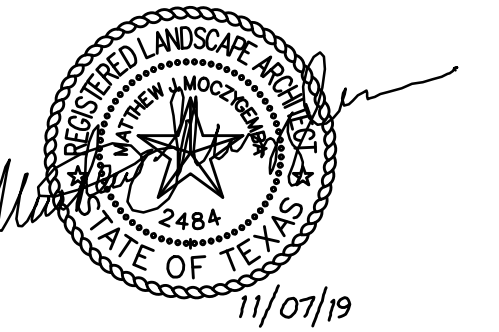


LANDSCAPE ARCHITECTURE
PLANNING
URBAN DESIGN
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SAN ANTONIO, TX 78248
P: 210-908-6736
WWW.GOOPENAIR.COM

PROJECT:
CUELLAR PARK

OWNER:
CITY OF SAN ANTONIO

LOCATION:
SAN ANTONIO, TEXAS



PROJECT #: CSA20171
DESIGNED BY: JS
DRAWN BY: JS
REVIEWED BY: MM
ISSUED: NOV. 07, 2019

SHEET TITLE:
MATERIALS
PLAN

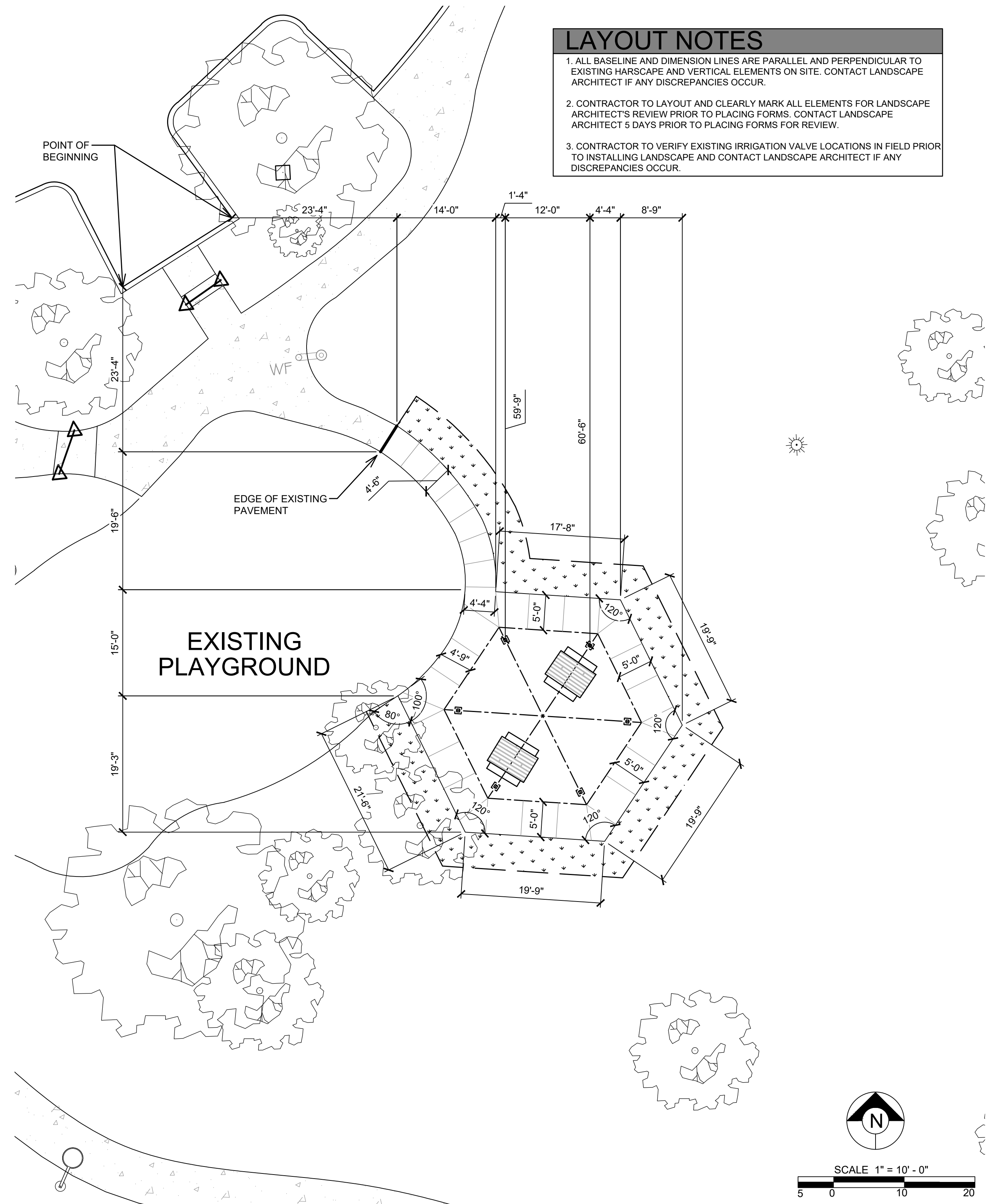
SHEET NUMBER:
L1.03



OWNER:
CITY OF SAN ANTONIO

SUED: NOV. 01, 2019

SHEET NUMBER:
1.04



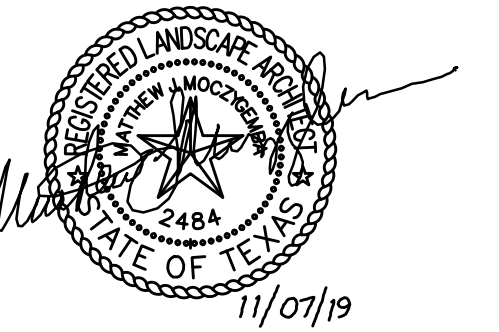


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LOCATION:
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PROJECT #: CSA20171
DESIGNED BY: JS
DRAWN BY: JS
REVIEWED BY: MM

ISSUED: NOV. 07, 2019

SHEET TITLE:
HARDSCAPE
SITE DETAILS

SHEET NUMBER:
L2.01

GENERAL NOTES

1. SHOP DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF TEXAS, TO BE PROVIDED TO LANDSCAPE ARCHITECT PRIOR TO BEGINNING CONSTRUCTION ON ANY STRUCTURE OR SITE ITEM. REINFORCEMENT SHOWN IS FOR GRAPHICAL REPRESENTATION ONLY AND SHALL NOT BE CONSTRUCTED AS PART OF ANY GRADE BEAMS, PIERS, CAPS, SEAT WALLS, CONNECTIONS, ETC. SHOP DRAWINGS SHALL INDICATE ALL MEMBERS, CONNECTIONS, WELDS, FASTENINGS, MATERIALS, WIND LOADING CAPACITY, ETC. PRIOR TO FABRICATION AND INSTALLATION.

2. ALL CONCRETE SAWCUTS TO BE A MIN. WIDTH OF $\frac{1}{4}$ " AND A MIN. DEPTH OF $\frac{3}{8}$ ".

3. CONTRACTOR SHALL SUPPLY SHOP DRAWINGS FOR ALL PROPOSED LIGHTS AND SHADE STRUCTURE TO LANDSCAPE ARCHITECT FOR REVIEW AND APROVAL.

METAL FABRICATION, PREPARATION, AND COATINGS

1. ALL METAL COMPONENTS TO BE STEEL WITH PRIMER COATING OR ALUMINUM AS INDICATED.

2. SUBMIT SPECIFICATIONS ON ALUMINUM AND STEEL GRADE AND QUALITY FOR APPROVAL.

3. WELDS TO BE CONTINUOUS AND NEAT, GRIND SMOOTH AND FLUSH, GRIND INSIDE CORNERS TO SMOOTH ROUNDED FORM.

4. PREPARATION: BLAST AND GRIND/WIRE BRUSH TO REMOVE ALL MILL SCALE AND SURFACE FLAKING, AND AS RECOMMENDED BY PRIMER

MANUFACTURER.

5. COATING APPLICATION: PRIMER - SHOP APPLY BY SPRAY APPLICATOR ONE SMOOTH 5-10 MIL (DRY) COAT OF SHERWIN-WILLIAMS MACROPOXY 646 FAST CURE EPOXY UNIVERSAL PRIMER (NO MORE THAN 10 MIL THICK). CURE TIME AS RECOMMENDED BY MANUFACTURER. SUBMIT PRIMER / INTERMEDIATE / TOPCOAT SYSTEM FOR APPROVAL.

A. INTERMEDIATE - SHOP APPLY BY SPRAY APPLICATION ONE SMOOTH 2-4 MIL COAT (DRY) OF SHERWIN WILLIAMS COROTHANE II POLYURETHANE OR APPROVED EQUAL. CURE TIME AS RECOMMENDED BY MANUFACTURER.

B. TOP COAT - SHOP APPLY BY SPRAY APPLICATOR ONE SMOOTH 2-4 MIL COAT OF SHERWIN-WILLIAMS COROTHANE II POLYURETHANE (GLOSS FLAT FINISH) OR APPROVED EQUAL CURE TIME AS RECOMMENDED BY MANUFACTURER.

C. TOUCH UP - TOUCH UP WITH POLYURETHANE TOP COAT ON SITE TO ACHIEVE SMOOTH FINISH IF REQUIRED. DUE TO MINOR DAMAGE TO COATING DURING INSTALLATION, RE-PRIME AND RE-PAINT INTERMEDIATE COAT PER MANUFACTURE'S RECOMMENDATIONS IF BARE METAL IS EXPOSED.

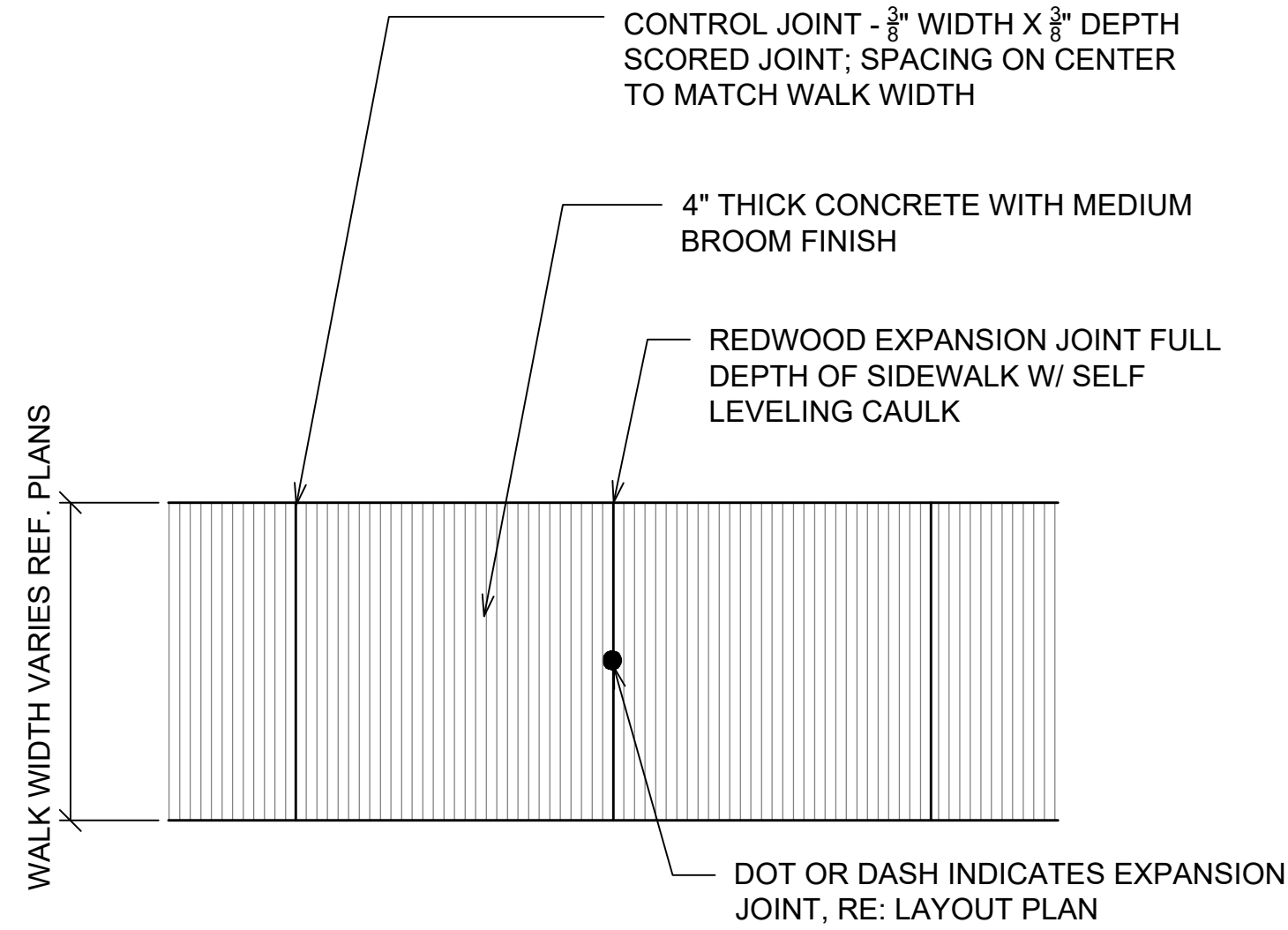
D. COLOR - TO BE SELECTED BY CONSULTANT. SUBMIT PAINTED METAL SAMPLES FOR APPROVAL.

ADD/ALTERNATE DESCRIPTIONS, RE: L1.01-L1.06 FOR LOCATION

1. ***ADD/ALT #1*** NEW LINE VOLTAGE LED TRAIL LIGHT, RE: MEP DRAWINGS FOR DETAILS

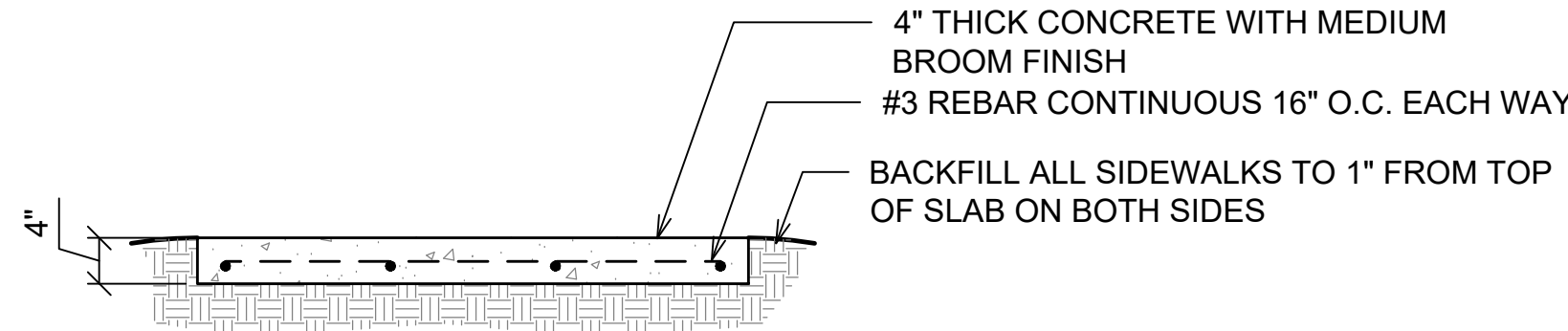
2. ***ADD/ALT #2*** 40' HEIGHT YOKE MOUNTED LED SPORTS LIGHT WITH UPLIGHT HOOD BY BEACON LIGHTING. FOR PONY FIELD 1 AND PANEL WORK AT EXISTING PANEL WITH CONDUIT RUNS NEEDED. RE: MEP DRAWINGS FOR DETAILS

3. ***ADD/ALT #3*** 40' HEIGHT YOKE MOUNTED LED SPORTS LIGHT WITH UPLIGHT HOOD BY BEACON LIGHTING, RE: MEP DRAWINGS FOR DETAILS



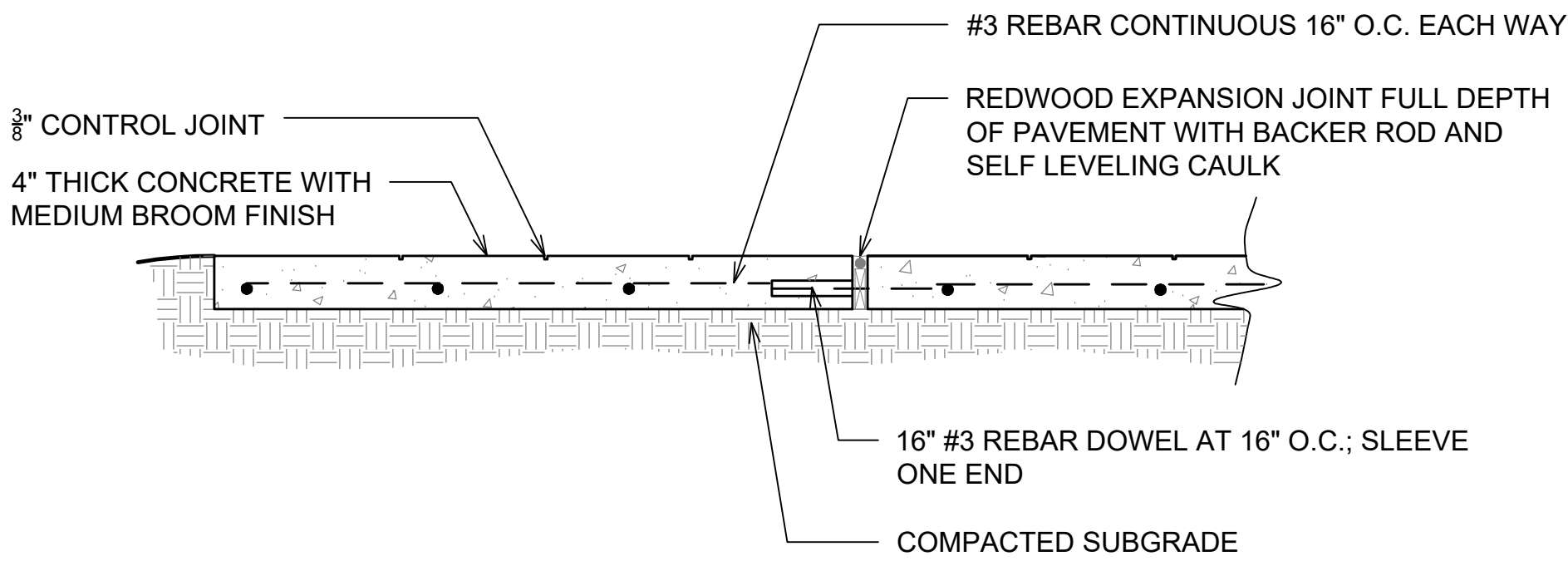
4 SIDEWALK FINISH

SCALE: 3/8" = 1' - 0"



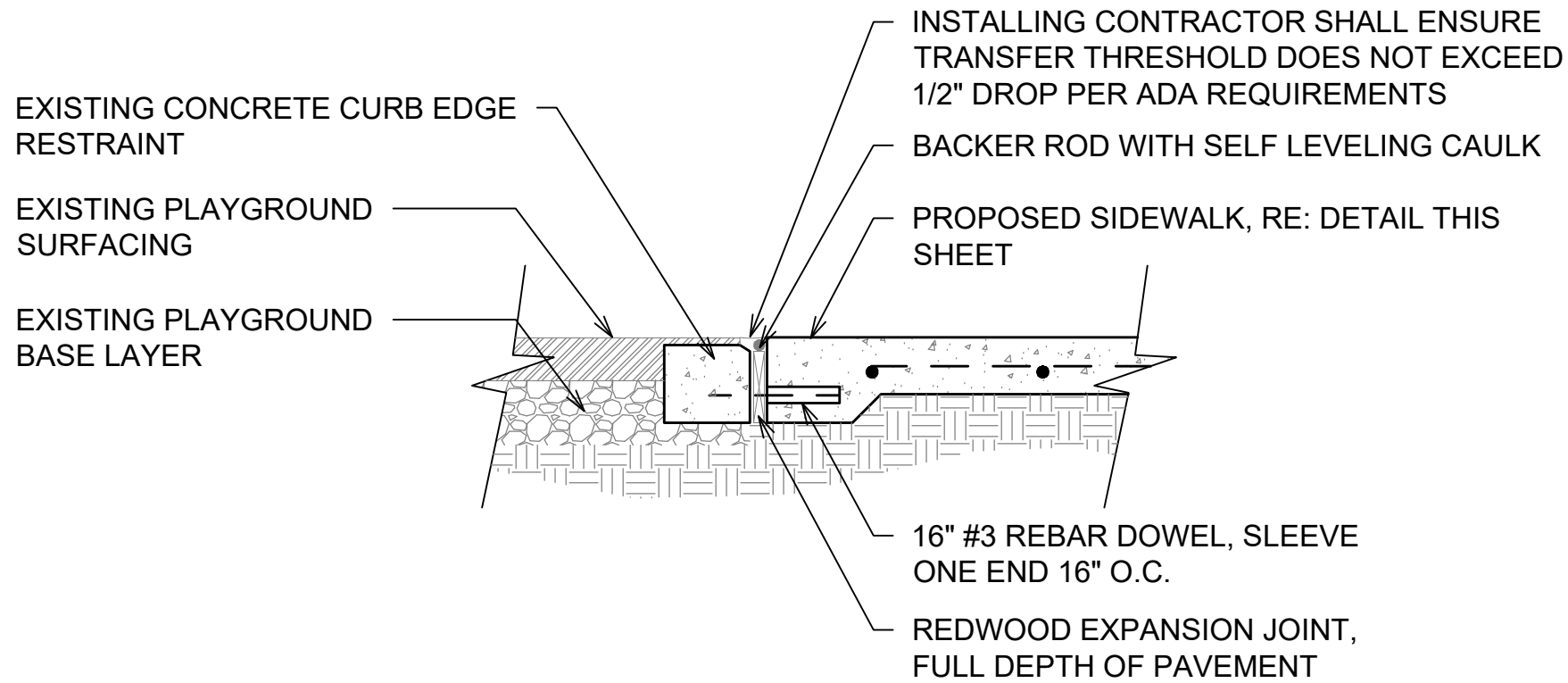
3 TYPICAL SIDEWALK

SCALE: 3/4" = 1' - 0"



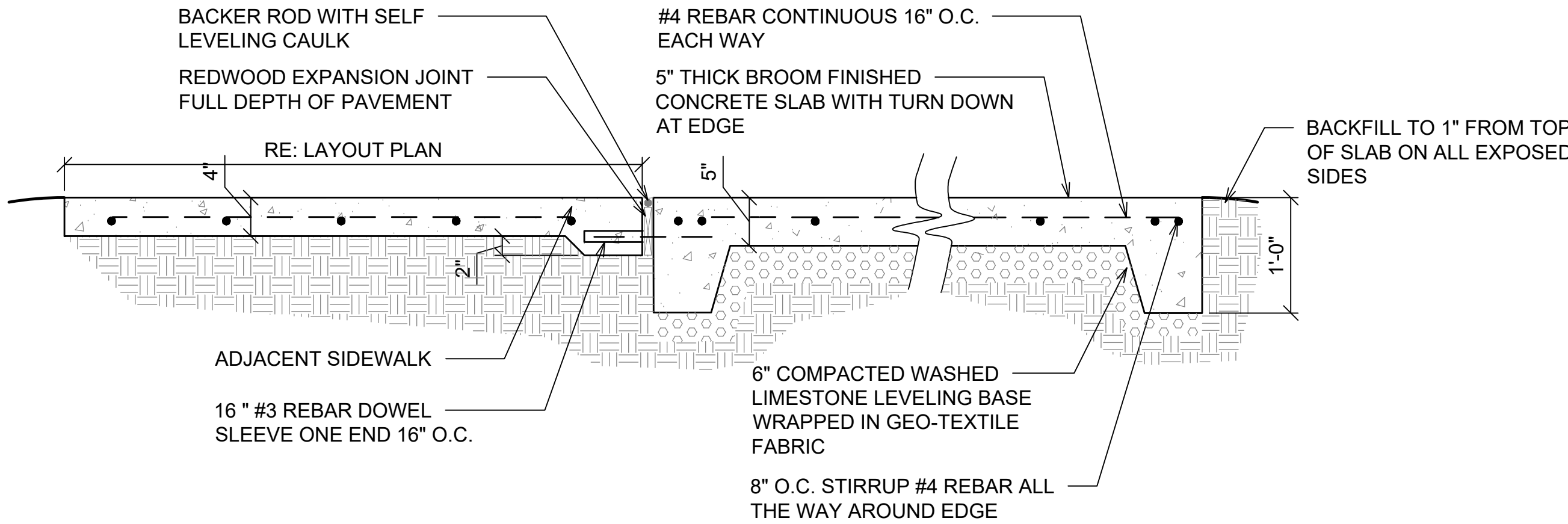
2 SIDEWALK CONTROL JOINT/EXPANSION JOINT

SCALE: 1" = 1' - 0"



5 SIDEWALK TRANSITION AT PLAYGROUND EDGE

SCALE: 1" = 1' - 0"



1 SHADE STRUCTURE CONCRETE SLAB DETAIL AND SIDEWALK JOINT

SCALE: 1" = 1' - 0"

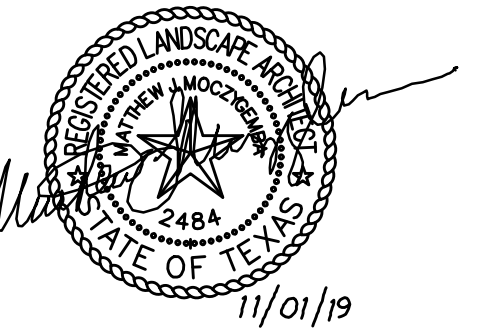


LANDSCAPE ARCHITECTURE
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PROJECT:
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OWNER:
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LOCATION:
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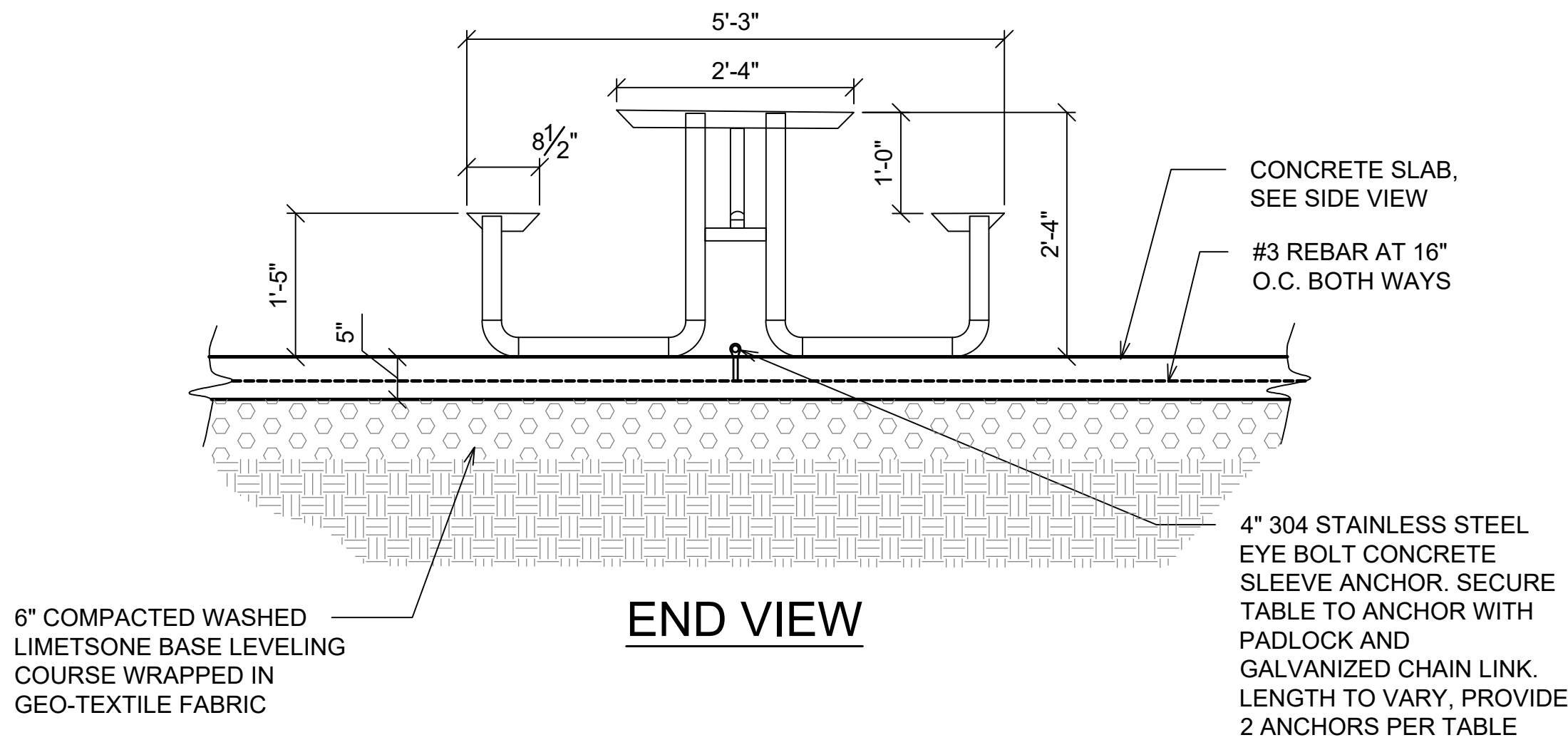


PROJECT #: CSA20171
DESIGNED BY: JS
DRAWN BY: JS
REVIEWED BY: MM
ISSUED: NOV. 01, 2019

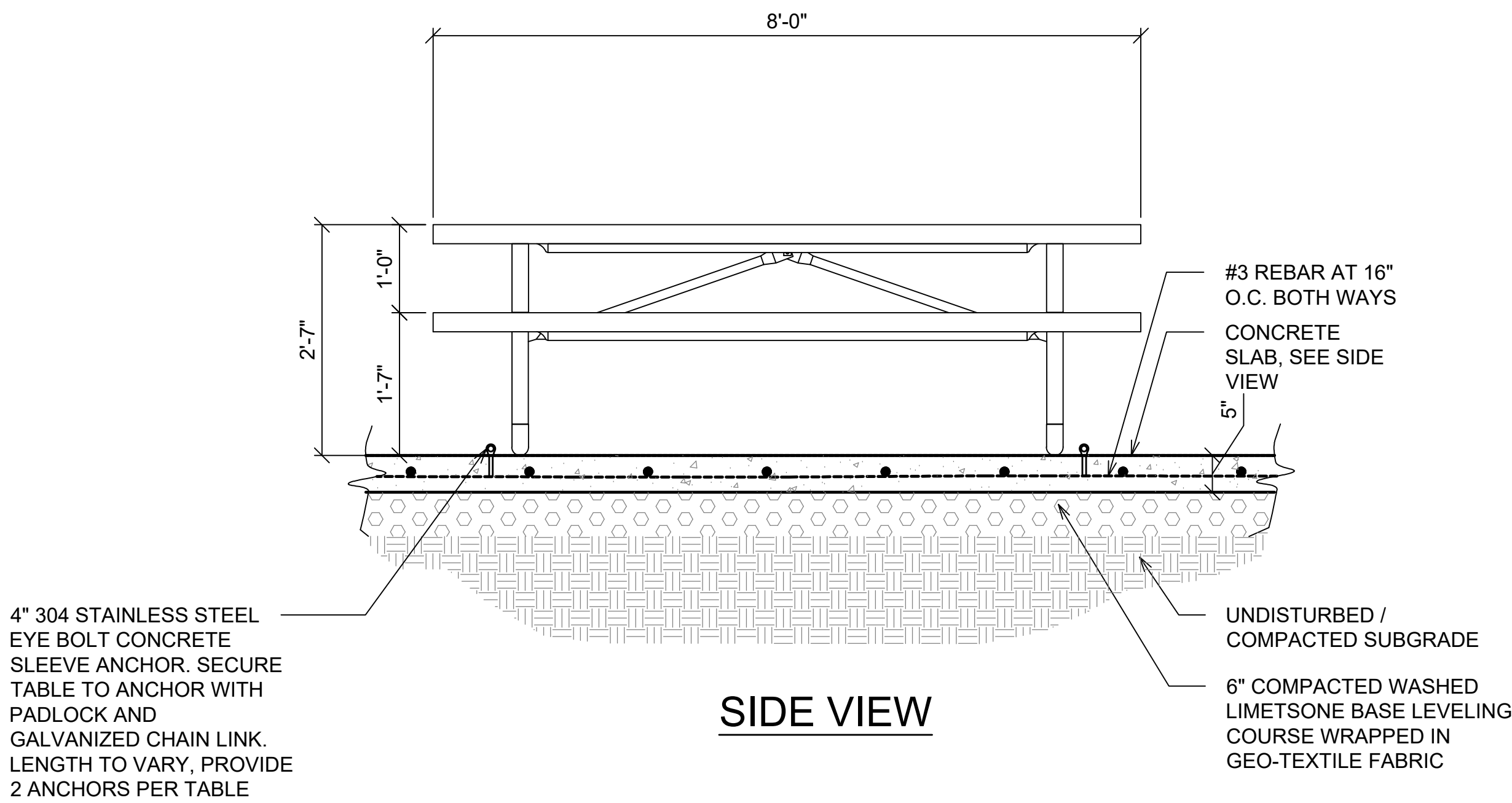
SHEET TITLE:
SITE FURNITURE
AND SHADE
STRUCTURE
DETAILS

SHEET NUMBER:
L2.02

BM 1200 STEEL FRAME PICNIC TABLE FROM
TREE TOP PRODUCTS. COLOR TO BE CEDAR.
CONTACT 1-866-511-5642

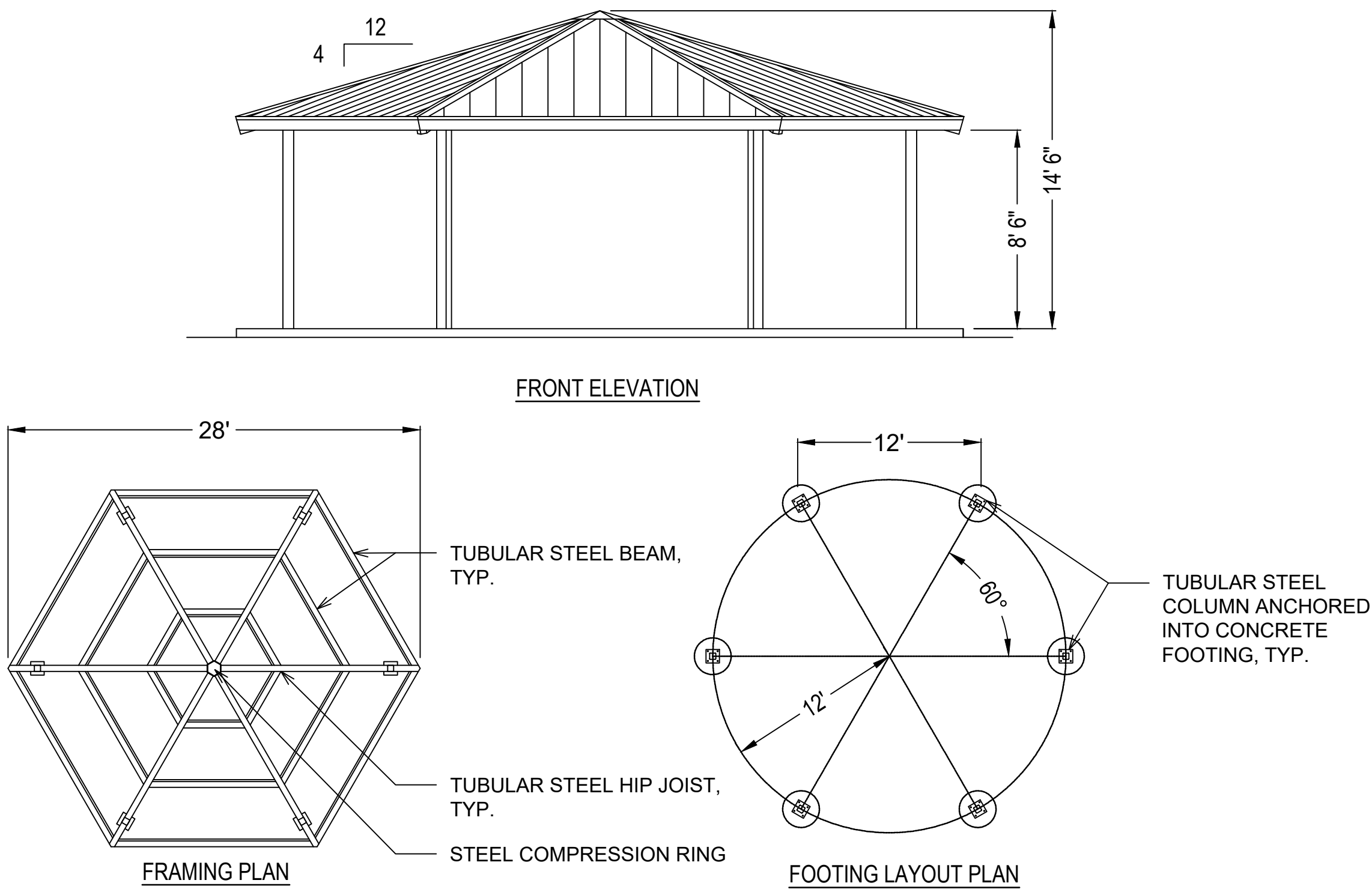


3	TREE TOP STEEL FRAME PICNIC TABLE
SCALE: 3/4" = 1' - 0"	



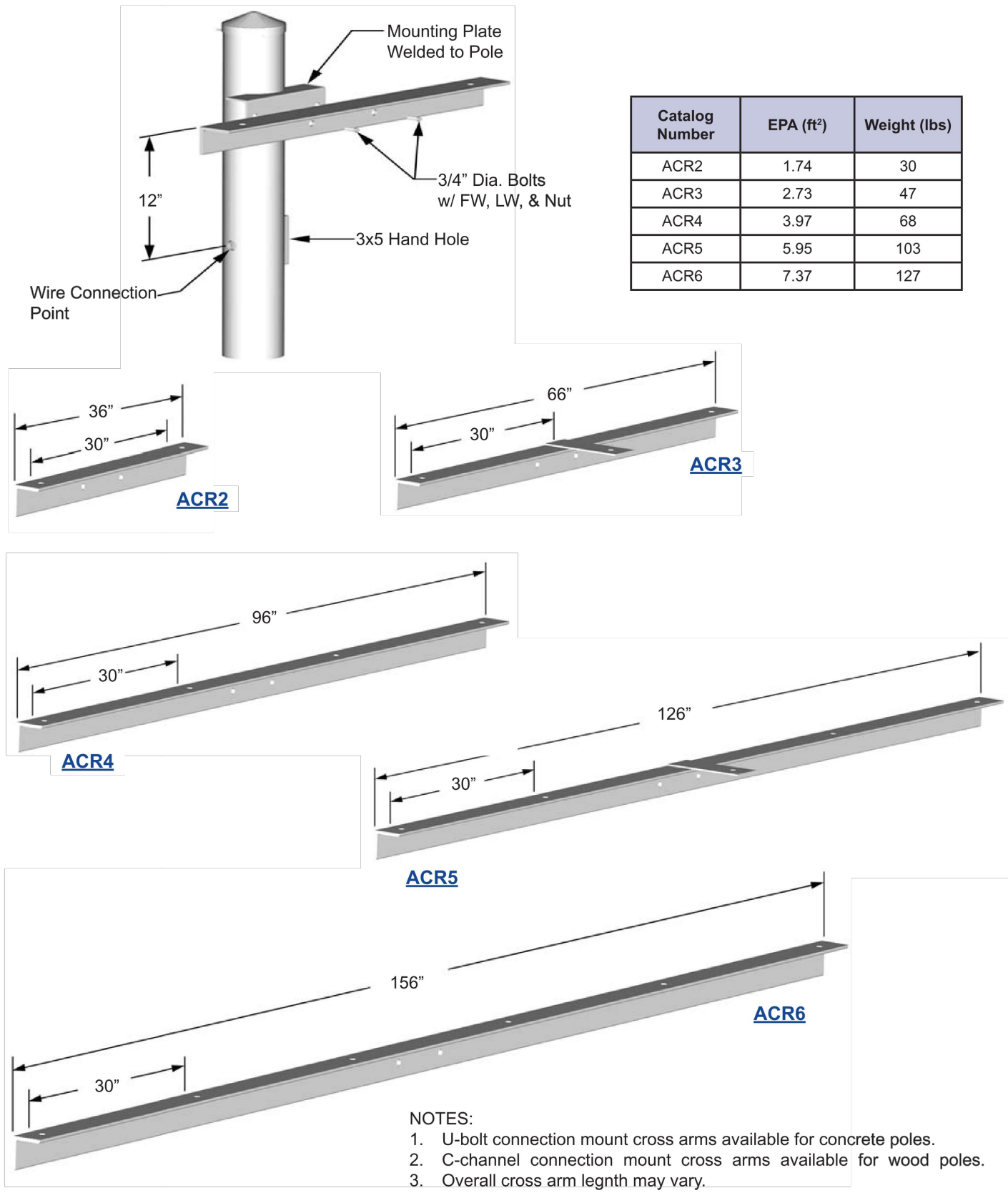
2	TREE TOP STEEL FRAME PICNIC TABLE
SCALE: 3/4" = 1' - 0"	

NOTE: CONTRACTOR SHALL INCLUDE SIGNED AND SEALED STRUCTURAL ENGINEER DRAWINGS FROM COVERWORX WITHIN BID AND SUPPLY SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION. CONTACT DEBRA FINCH W/ PAUL E. ALLAN CO. AT 214-697-1320. CoSA TO PAY FOR REQUIRED PERMIT FEES. CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITTING PROPOSED SHADE STRUCTURE.



1	COVERWORX SHADE STRUCTURE - TYP
SCALE: NOT TO SCALE	

Cross Arm Brackets



NOTE: CONTRACTOR SHALL INCLUDE SIGNED AND SEALED STRUCTURAL ENGINEER DRAWINGS FOR ALL PROPOSED LIGHT POLES WITHIN BID AND SUPPLY SHOP DRAWINGS TO LANDSCAPE ARCHITECT AND MEP FOR REVIEW PRIOR TO CONSTRUCTION. RE: MEP DRAWINGS FOR DETAILS ON LIGHT FIXTURE COUNTS, PLACEMENT, CONDUIT RUNS, AND PANEL WORK TO BE PERFORMED

INTERCEPT®
FLOODLIGHT

Col.#
Job
Type

Approvals

HUBBELL
HUBBELL
Outdoor Lighting

SPECIFICATIONS
Intended Use:
Intercept is a superior high output, high efficiency LED flood light, featuring a unique optical design that virtually eliminates glare with minimal impact on performance. It is available in a variety of flood distributions for lighting applications such as general and security lighting for large areas, port and rail centers, airport apron lighting and interior or exterior sports.

Construction:
• Heavy duty die-cast aluminum housing
• Light engine is thermally isolated from driver components
• UV stabilized polyester powder paint finish
• Horizontal and vertical aiming

LED:
• Modular optical assemblies enable 3 unique performance packages
• 80K lumens, 880 Watts
• 60K lumens, 580 Watts
• 48K lumens, 440 Watts
• 3000K, 4000K, 5000K CCT
• 70, 80 or 90 CRI

Optical/Electrical:
• Four distributions to maximize performance: 2x2, 3x3, 4x4, 5x5
• -40°C TO 40°C operating temp range
• 20KA surge protection device standard
• 0-10V dimming driver standard, dimming leads must be extended for connection to control systems (C0 option)
• 120-480V operation 50/60Hz
• Driver RoHS compliant and IP65

CERTIFICATIONS/LISTINGS
cULus IP66

Installation:
• Heavy duty yoke mount secured with 1/4" bolt

Listings:
• IP66, Listed to UL1598 for use in wet locations
• Patent Pending

Warranty:
For more information visit:
<http://www.hubbelllighting.com/resources/warranty/>

PRODUCT IMAGE(S)

Diagrams:
• 2x2, 3x3, 4x4, 5x5
• 100 lbs, 4.2 ft
• 597mm, 719mm, 305mm, 401mm, 812mm, 688mm, 45 lbs, 1.1 ft

Dimensions:
A, B, C, D, E, F, Weight, EPA

ACCESSORIES (ORDER SEPARATELY)

93090001	Top Hat
93090002	Laser Aiming Assembly
93101004	Detail 1
93090003	Intercept Site-Fix Adapter

CONTROL ACCESSORIES

SWUSP*	SiteSync Interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB cable (single side).
SWTAB*	Windows tablet and SiteSync interface software. Includes tablet with pre-installed software, SiteSync license and USB cable (single side).
SWBRG	SiteSync USB male bridge mode only. Order if a replacement is required or if an extra bridge mode is requested.

ACCESSORIES

93090001	Top Hat
93090002	Laser Aiming Assembly
93101004	Detail 1
93090003	Intercept Site-Fix Adapter

CONTROL ACCESSORIES

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SWBRG	SiteSync USB male bridge mode only. Order if a replacement is required or if an extra bridge mode is requested.

* Includes glue gun
* 12" cord is default option

* When entering Orderline or Item #, enter all items for complete system must be ordered per project.
* If needed, an additional Site-Fix Adapter can be ordered.

HUBBELL Outdoor Lighting

Hubbell Outdoor Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000
Due to our continued efforts to improve our products, product specifications are subject to change without notice.
© 2019 HUBBELL, OUTDOOR LIGHTING, All Rights Reserved • For more information visit our website: www.hubbelloutdoor.com • Printed in USA WP-SPFC May 15, 2019 3:57 PM

3 TYPICAL SPORTS LIGHT POLE

SCALE: NOT TO SCALE

AMERICAN LITE POLE
2905 S. BILSON, SUITE 200
FORT WORTH, TX 76109
817-924-5465 PFX
817-924-7049 FAX

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REV. DATE BY REVISION DESCRIPTION

061014 BM
NTS
RTS-39-90-7-AB

DATE NUMBER SCALE UNIT
061014 NTS
RTS-39-90-7-AB

DATE NUMBER SCALE UNIT
061014 NTS
RTS-39-90-7-AB

DESCRIPTION
ROUND TAPERED STEEL ANCHOR BASE
39" x 9.0" x 7 GA

GENERAL NOTES
RTS-39-90-7-AB

1 TYPICAL TRAIL LIGHT POLE

SCALE: NOT TO SCALE

AMERICAN LITE POLE
2905 S. BILSON, SUITE 200
FORT WORTH, TX 76109
817-924-5465 PFX
817-924-7049 FAX

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REV. DATE BY REVISION DESCRIPTION

061014 BM
NTS
RTS-25-59-11-AB

DATE NUMBER SCALE UNIT
061014 NTS
RTS-25-59-11-AB

DATE NUMBER SCALE UNIT
061014 NTS
RTS-25-59-11-AB

DESCRIPTION
ROUND TAPERED STEEL ANCHOR BASE
25" x 5.9" x 11 GA

GENERAL NOTES
RTS-25-59-11-AB

2 TYPICAL TRAIL LIGHT FIXTURE

SCALE: NOT TO SCALE

DETAIL 3
POLE HEIGHT 25 (FT)

DETAIL 1
BASE PLATE

DETAIL 2
ANCHOR BOLT

0" VIEW

□ T20R (2.38" OD x 4" TALL)
□ T25R (2.88" OD x 4" TALL)
□ T30R (3.50" OD x 6" TALL)

□ DM19
□ DM28

NOTE: POLE TOP OD = 2.40"
DRILL MOUNT OPTIONS LIMITED TO DM19 & DM28

DETAIL 3 POLE TOP
DETAIL 1 BASE PLATE
DETAIL 2 ANCHOR BOLT

LOADING DATA
DESIGN CRITERIA: WIND SPEED (mph) 80 90 100 110 120 130 140 150
EPA FTA 12.5 9.9 8.0 6.9 5.7 4.8 4.1 3.5
WEIGHT (lbs) 312 247 200 173 143 119 103 88

MATERIAL DATA
COMPONENT: ASTM A595 GR.55
BASE PLATE: A36
ANCHOR BOLTS: F1554 GR.55
MISC. STEEL: A36

POLE DIMENSION DATA
TYPE DESIGN POLE LENGTH (FT) BASE DIA (IN) TOP DIA (IN) GAUGE OR THK (IN) WEIGHT (LBS)
RTS-25-59-11-AB 25 5.90 2.40 11-GA (.120") 155

GENERAL NOTES
1) HARDWARE TO BE GALVANIZED TO: ASTM A153
2) ANCHOR BOLTS SHALL BE FULLY GALVANIZED PER ASTM A153.
3) ALL WELDING TO CONFORM TO: AWS D11 MOST RECENT EDITION.
4) FABRICATION MEETS AISI (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) QUALITY CERTIFICATION.
5) PROVISIONS FOR GROUNDING LOCATED AT BASE HOLE.
6) WARNING DISCLAIMER: ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES. VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE. ALL WARRANTY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENON RESULTING FROM EXCESSIVE VIBRATION, VIBRATING ISOLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE POLE.



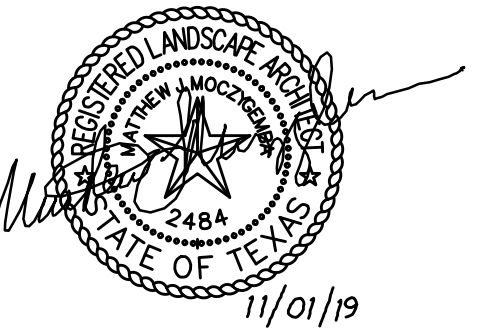
LANDSCAPE ARCHITECTURE
PLANNING
URBAN DESIGN
2722 W. BITTERS RD, STE #114
SAN ANTONIO, TX 78248

P: 210-908-6736
WWW.GOPENAIR.COM

PROJECT:
CUELLAR PARK

OWNER:
CITY OF SAN ANTONIO

LOCATION:
SAN ANTONIO, TEXAS



PROJECT #: CSA201701
DESIGNED BY: JS
DRAWN BY: JS
REVIEWED BY: MM

ISSUED: NOV. 01, 2019

SHEET TITLE:
TYPICAL LIGHT
DETAILS

SHEET NUMBER:
L2.03

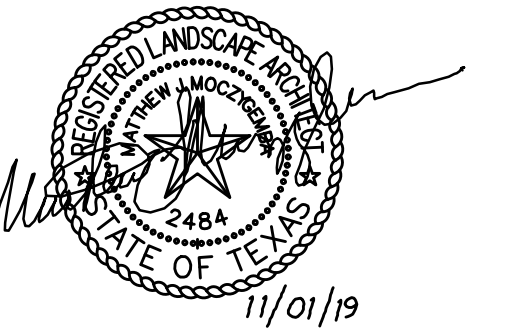


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PROJECT:
CUELLAR PARK

OWNER:
CITY OF SAN ANTONIO

LOCATION:
SAN ANTONIO, TEXAS



PROJECT #: CSA20171
DESIGNED BY: JS
DRAWN BY: JS
REVIEWED BY: MM

ISSUED: NOV. 01, 2019

SHEET TITLE:

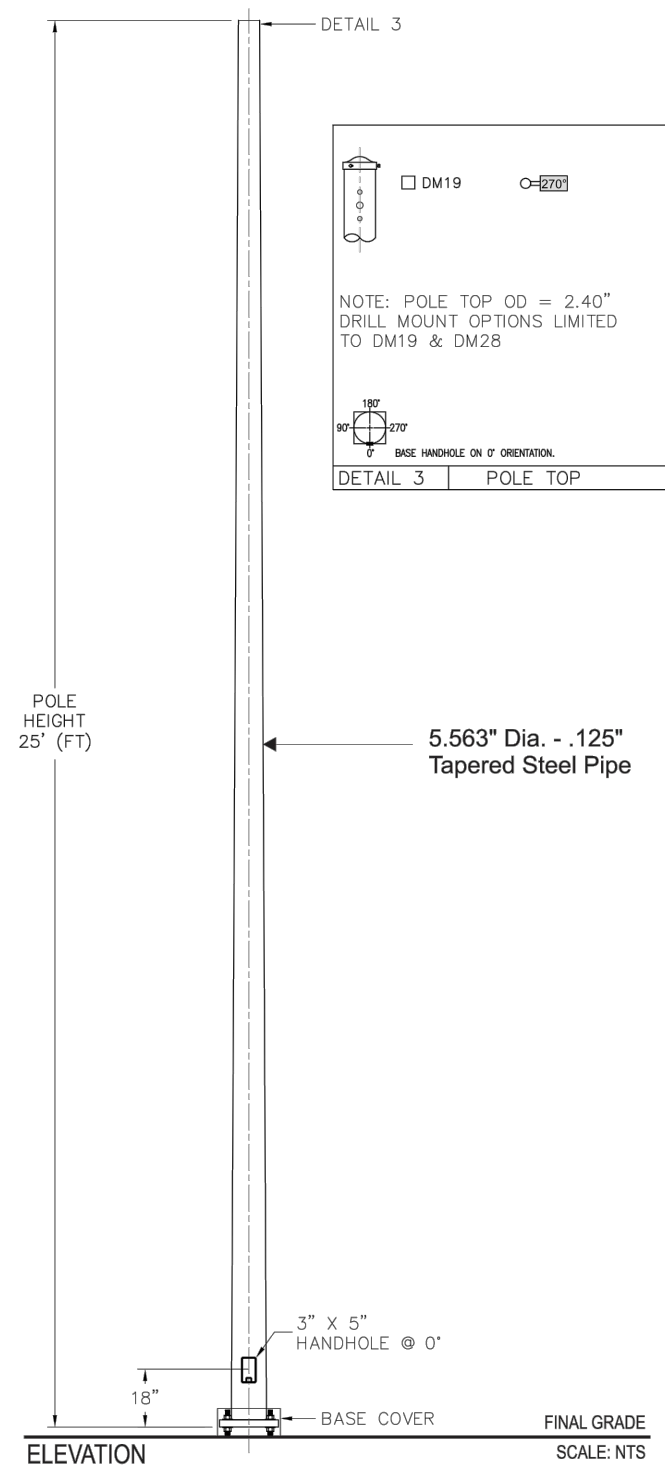
TRAIL LIGHT
STRUCTURAL
DETAILS

SHEET NUMBER:

L2.04

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ME #: 46307

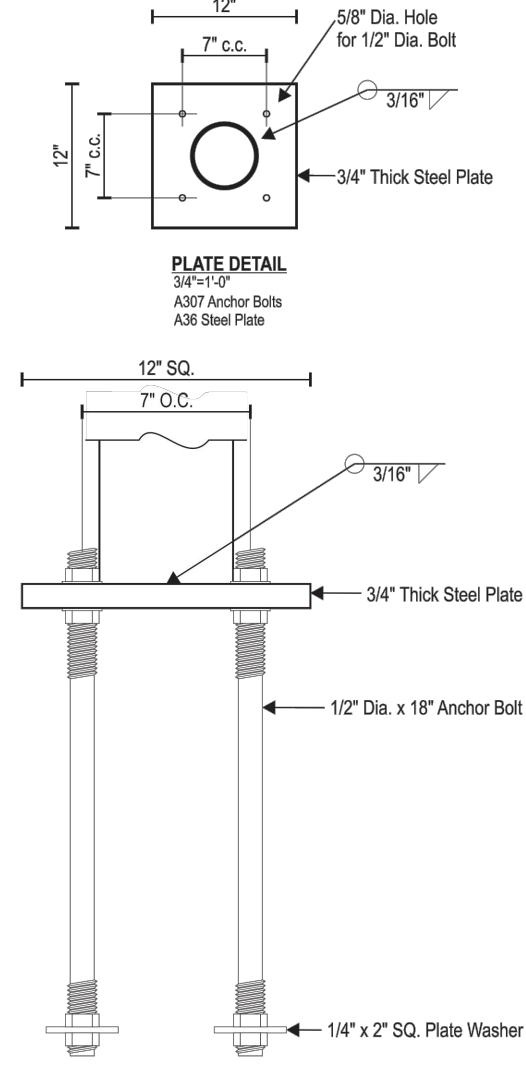
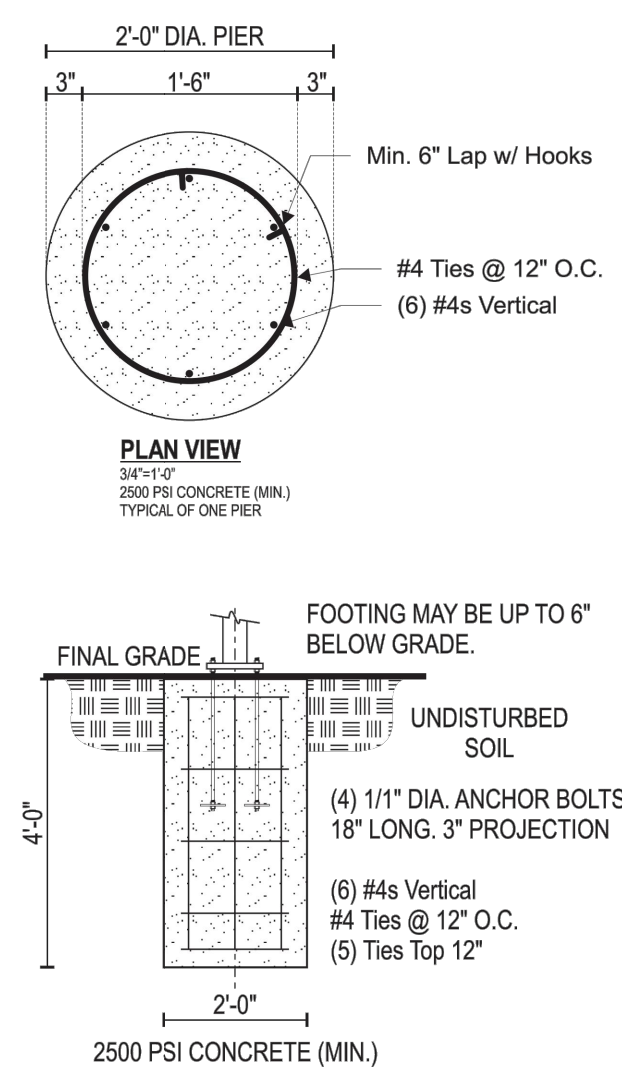


CUELLAR PARK
Address: 5626 SAN FERNANDO ST.
City/State: SAN ANTONIO, TX
Client: OPEN AIR STUDIOS
ENGINEERING OF
VERTICAL SUPPORT AND
FOUNDATION ONLY.
NO CABINET ENGINEERING
PROVIDED OR IMPLIED
Initial Drawing: 168307.AB
NC Firm Registration: F-1138
Texas Expiration Date: 6/30/2020
Texas Firm Registration: F-6996
Date: 11-7-2019
Sheet #: 5 of 6



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ME #: 46307



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2 LIGHT POLE FOOTING DETAILS

SCALE: NOT TO SCALE

Date: 11/7/19 City, State: San Antonio, TX SHEET: 1 OF 3
Client: Open Air Studios Overall Height: 25'-0" Sean M. McFarland, PE
Sign: Cuellar Park Wind Speed: 115 mph McFarland Engineering

Sign Description 5626 San Fernando St **Table of Contents**
Columns: 1 **Content:** Page
ME Job: 46307 C **BASE PLATE / ANCHOR BOLTS** Design Loads: 1
ULTIMATE LOADS Support Design: 1-3
Height: 0'-7" **42 KSI STEEL PIPE**
Width: 1'-7" **30PSF**

Structural Variables and Code Loading Specifications
Cabinet Type: Miscellaneous Code: 2018 IBC
Structural Section: Steel Pipe - 42000psi Wind Speed: 115
Number of Zones: 2 Wind Exposure: c
Wind Loads Per ASCE 7-16

Sign Sections:	Cabinet Wt. Per Sq. Ft.	Weight	Transition (Y or N)
Zone			
1	20	8.0 #/FT	
2	0	8.0 #/FT	Y
3	0		
4	0		
5	0		
6	0		
7	0		
8	0		

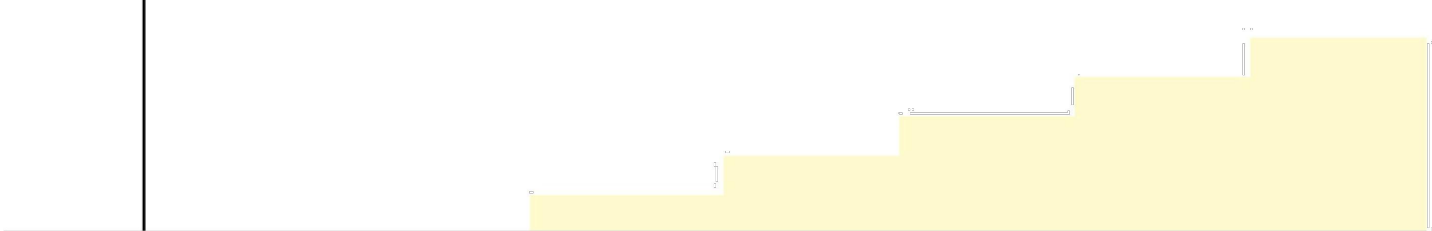
Geometry:	Top Elevation	Height	* Approx. Width Width	Pressure	Force	Approx. Weight
Zone						
1	25.00 FT	0.58 FT	1.58 FT*	30.00 PSF	0.03 K	23 #
2	24.42 FT	24.42 FT	0.46 FT*	12.48 PSF	0.14 K	195 #

Total Wind Force = 0.17 K 218 #

Date: 11/7/19 City, State: San Antonio, TX SHEET: 2 OF 3
Client: Open Air Studios Overall Height: 25'-0" Sean M. McFarland, PE
Sign: Cuellar Park Wind Speed: 115 mph McFarland Engineering

ME Job: 46307 C

Moments at Transitions:	Lateral Force	2 Mom. Arm
Zone		
1	0.03 K	24.71 FT
2	0.14 K	12.21 FT



Section Properties: 1.04 IN^3

Structural Sections to be used:	Pipe (Tapered)
Zone	Option Dim. Wall t. Weight Sxx d/t Sxx Req'd
2	Pipe (Tapered) 5.56 IN 0.125 IN 8.0 #/FT 2.70 IN^3 21.50 1.04 IN^3

Structure Required	#	Size	Wall Thickness
Req'd			
1	5.56 IN	0.125 IN	

Date: 11/7/19 City, State: San Antonio, TX SHEET: 3 OF 3
Client: Open Air Studios Overall Height: 25'-0" Sean M. McFarland, PE
Sign: Cuellar Park Wind Speed: 115 mph McFarland Engineering

ME Job: 46307 C

Pier Footing
Pier Footing Design: Select the footing and soil type:
 $d = A / 2 * (1 + (1 + (4.36 * h) / A)^{1/2})$ Footing: Round
where $A = (2.34 * P) / (S1 * b)$ Vert. Soil Bearing (psf): 1500
Lat. Soil Bearing (psf): 150

Mmax = 2,409 #-FT
Pmax (Lateral) = 169 #
LSBP = 150 PCF
S1 = 330 PCF X d
d = 2.000 FT For use with Round Footing
A = 0.60 FT^2
h = 14.258 FT
d = 3.365 FT
USE: 2.00 FT. RND. X 4.00 FT. DEEP PIER w/ (6) #4's @ 12" O.C.
#4's @ 12" O.C. (5) Ties Top 12"
18" Long Bolts - 3" Extension, 2" Washers

Soil Bearing Check:
DLmax = 218 LBS
Area of Footing = 3.14 FT^2
Actual SBP = 70 PSF
Allowable SBP = 900 PSF
(Includes code allowed 20% increase for every foot of footing below 12" into natural grade.)
70 PSF < 900 PSF THEREFORE OK

Baseplate Design -
D = 5.56 IN A36 Steel Fy= 36ksi
e = 0.72 IN E70 Electrodes Fw= 928 #/in/16th
b eff = 1.95 IN A307 A.B.'s F=20 ksi
e eff = 1.75 IN # of Bolts = 4 Dia. Bolt 0.5
plate t = 0.75 IN Column Mom = 2,409 #-FT

P Bolt = M * 12 (in/ft) 2,056 # < 3,926 #
2 bolts (D + e + t)
t req'd = [(6"P)e eff * 2 bolts] / (0.75"Fy(b eff + 2*t))^(1/2) .681 IN < 0.75 IN
Weld = M * 12 (in/ft) 1.28 16th's < 3.00 16th's
Fw (3,1415 * D^2/4)
USE: (4) 1/2" Dia. Bolts w/ 3/4" Baseplate. Weld to Support with (1) 3/16" Fillet Weld.

1 ULTIMATE LOAD CALCULATIONS

SCALE: NOT TO SCALE

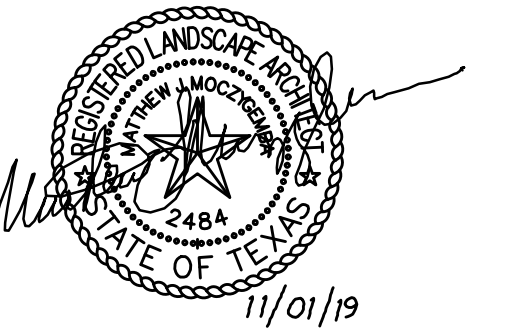


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PROJECT:
CUELLAR PARK

OWNER:
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LOCATION:
SAN ANTONIO, TEXAS



PROJECT #: CSA20171
DESIGNED BY: JS
DRAWN BY: JS
REVIEWED BY: MM

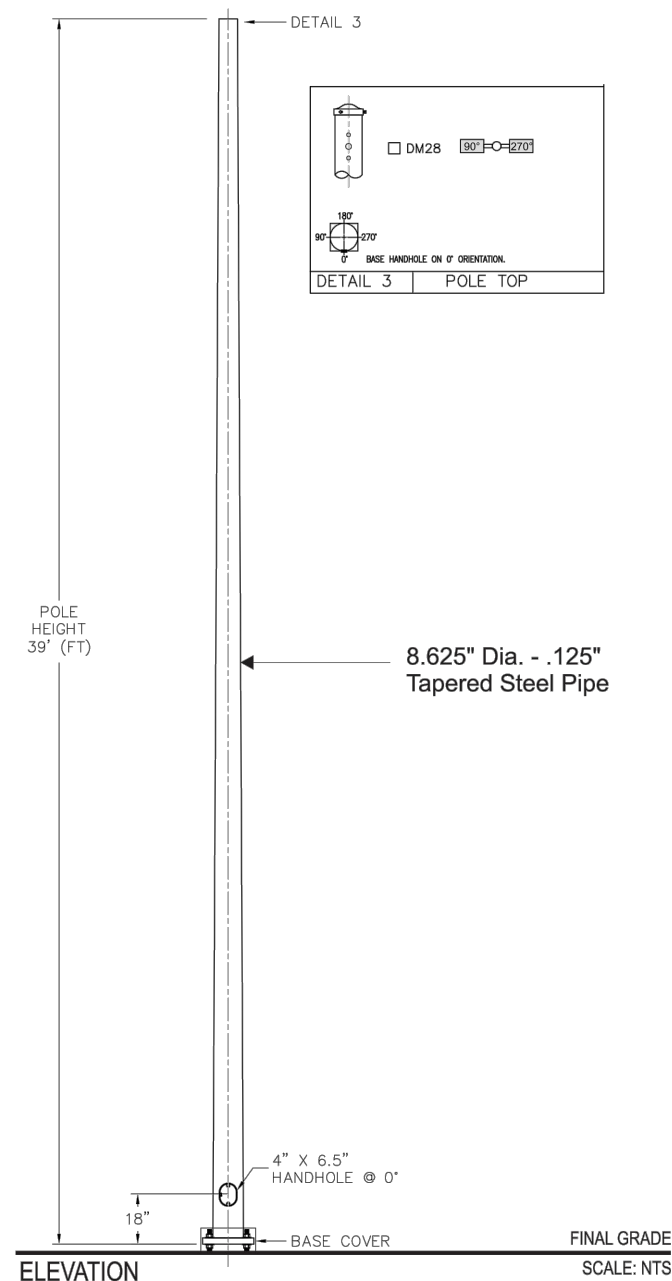
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SHEET TITLE:
FIELD LIGHT
STRUCTURAL
DETAILS

SHEET NUMBER:
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ME #: 46307



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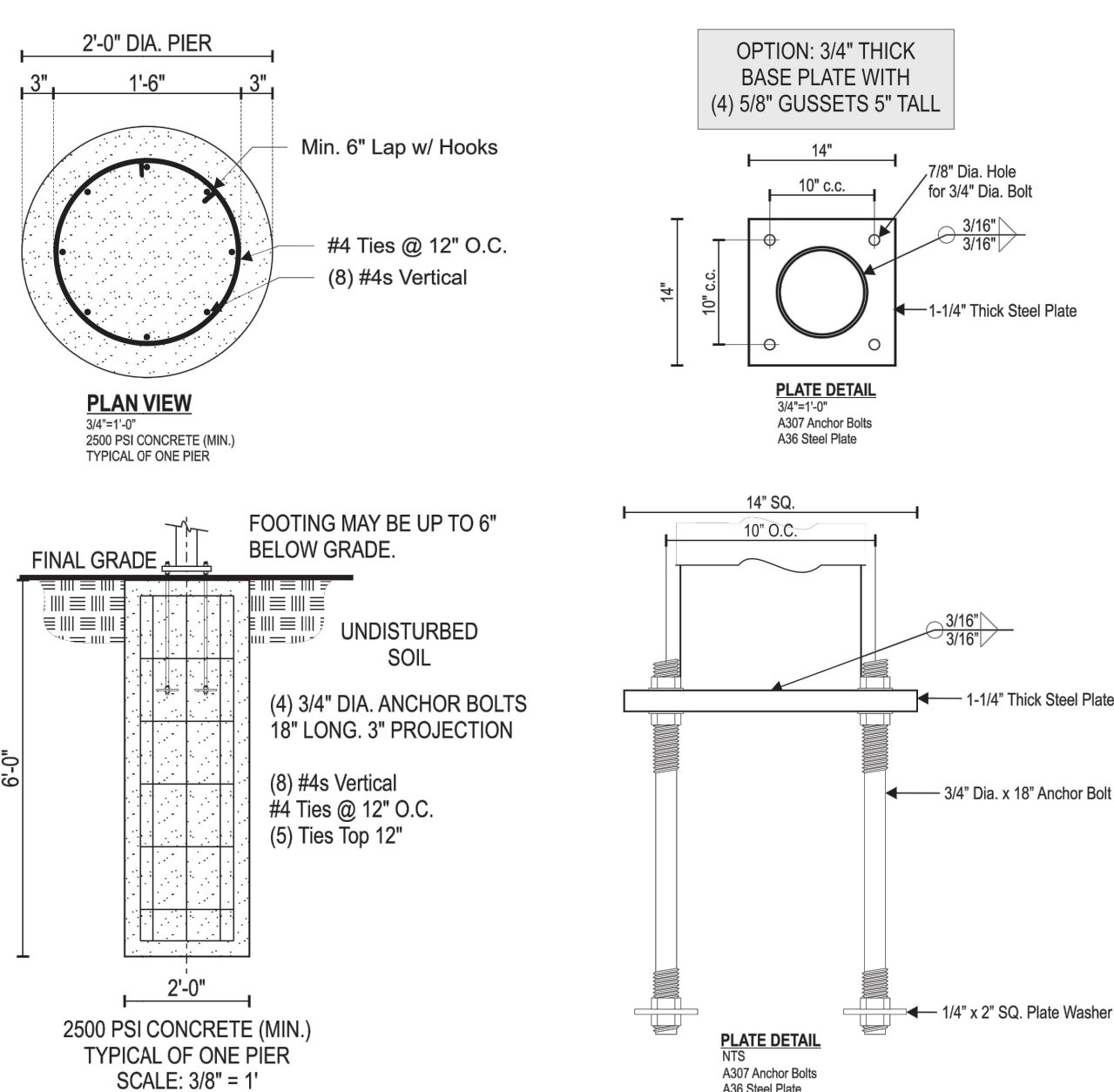


CUELLAR PARK
Address: 5626 SAN FERNANDO ST
City/State: SAN ANTONIO, TX
Client: OPEN AIR STUDIOS
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NC Firm Registration: F-1136
Texas Expiration Date: 6/30/2020
Texas Firm Registration: F-6966
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Date: 11-7-2019
Sheet #: 3 of 6



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ME #: 46307



CUELLAR PARK
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Date: 11-7-2019
Sheet #: 4 of 6



2 LIGHT POLE FOOTING DETAILS

SCALE: NOT TO SCALE

Date: 11/7/19	City, State: San Antonio, TX	SHEET: 1 OF 3
Client: Open Air Studios	Overall Height: 39'-0"	Sean M. McFarland, PE
Sign: Cuellar Park	Wind Speed: 115 mph	McFarland Engineering

Sign Description	5626 San Fernando St	Table of Contents
# Columns: 1		Content: Page
ME Job: 46307 B	BASE PLATE / ANCHOR BOLTS	1
	ULTIMATE LOADS	
Height: 2'-4"	42 KSI STEEL PIPE	
Width: 2'-9"	30PSF	

Structural Variables and Code Loading Specifications			
Cabinet Type:	Miscellaneous	Code:	2018 IBC
Structural Section:	Steel Pipe - 42000psi	Wind Speed:	115
Number of Zones:	2	Wind Exposure:	c

Sign Sections:			
Zone	Cabinet Wt. Per Sq. Ft.	Weight	Transition (Y or N)
1	20	12.0 #/FT	
2	0	12.0 #/FT	y
3	0		
4	0		
5	0		
6	0		
7	0		
8	0		

Geometry:						
Zone	Top Elevation	Height	* Approx. Width	Pressure	Force	Approx. Weight
1	39.00 FT	2.33 FT	2.25 FT *	30.00 PSF	0.16 K	133 #
2	36.67 FT	36.67 FT	0.72 FT *	12.65 PSF	0.33 K	440 #

Total Wind Force = 0.49 K 573 #

Date: 11/7/19	City, State: San Antonio, TX	SHEET: 2 OF 3
Client: Open Air Studios	Overall Height: 39'-0"	Sean M. McFarland, PE
Sign: Cuellar Park	Wind Speed: 115 mph	McFarland Engineering

ME Job: 46307 B

Moments at Transitions:		
Zone	Lateral	2
	Force	Mom. Arm
1	0.16 K	37.83 FT
2	0.33 K	18.33 FT

Section Properties:
5.23 IN^3

Structural Sections to be used:								
Zone	Pipe (Tapered)		Dim.	Wall t.	Weight	Sxx	d/t	Sxx Req'd
2	Pipe (Tapered)		8.63 IN	0.125 IN	12.0 #/FT	7.20 IN ³	69.00	5.23 IN ³

Structure Required		
# Req'd	Size	Wall Thickness
1	8.63 IN	0.125 IN

Date: 11/7/19	City, State: San Antonio, TX	SHEET: 3 OF 3
Client: Open Air Studios	Overall Height: 39'-0"	Sean M. McFarland, PE
Sign: Cuellar Park	Wind Speed: 115 mph	McFarland Engineering

ME Job: 46307 B

Pier Footing Design:		<i>Select the footing and soil type:</i>	
$d = A / 2 * (1 + (4.36 * h) / A)^{1/2}$		Footing:	Round
where $A = (2.34 * P) / (S1 * b)$		Vert. Soil Bearing (psf):	1500
		Lat. Soil Bearing (psf):	150

Mmax = 12,070 #*FT
Pmax (Lateral) = 491 #
LSBP = 150 PCF
S1 = 600 PCF X d
d = 2.000 FT
A = 0.96 FT^2
h = 24.590 FT
d = 5.566 FT
USE: 2.00 FT. RND. X 6.00 FT DEEP PIER w/ (8) #4's @ 12" O.C.
#4's @ 12" O.C. (5) Ties Top 12"
18" Long Bolts - 3" Extension. 2" Washers

Soil Bearing Check:
DLmax = 573 LBS
Area of Footing = 3.14 FT^2
Actual SBP = 182 PSF
Allowable SBP = 1,500 PSF
(Includes code allowed 20% increase for every foot of footing below 12" into natural grade.)
182 PSF < 1,500 PSF THEREFORE OK

Baseplate Design -	A36 Steel	Fy= 36ksi
D = 8.63 IN	E70 Electrodes	Fw= 928 #/in/16th
e = 0.69 IN	A307 A.B.'s	Ft=20 ksi
b eff = 3.75 IN	# of Bolts = 4	Dia. Bolt 0.75
e eff = 2.25 IN	Column Mom = 12,070 #*FT	
plate t = 1.25 IN		

P Bolt =	M * 12 (in/ft)	6,855 #	<	8,800 #
	2 bolts (D + e + t)			
t req'd =	[(6*P*e eff* 2 bolts)/(.75*Fy(b eff + 2*t))]^1/2	1.047 IN	<	1.25 IN
Weld =	M * 12 (in/ft)	2.67 16th's	<(2)	3.00 16th's
	Fw (3.1415 * D^2/4)			

USE: (4) 3/4" Dia. Bolts w/ 1 1/4" Baseplate. Weld to Support with (2) 3/16" Fillet Welds.
OPTION: 3/4" Thick BASEPLATE with (4) 5/8" Gussets 5" Tall

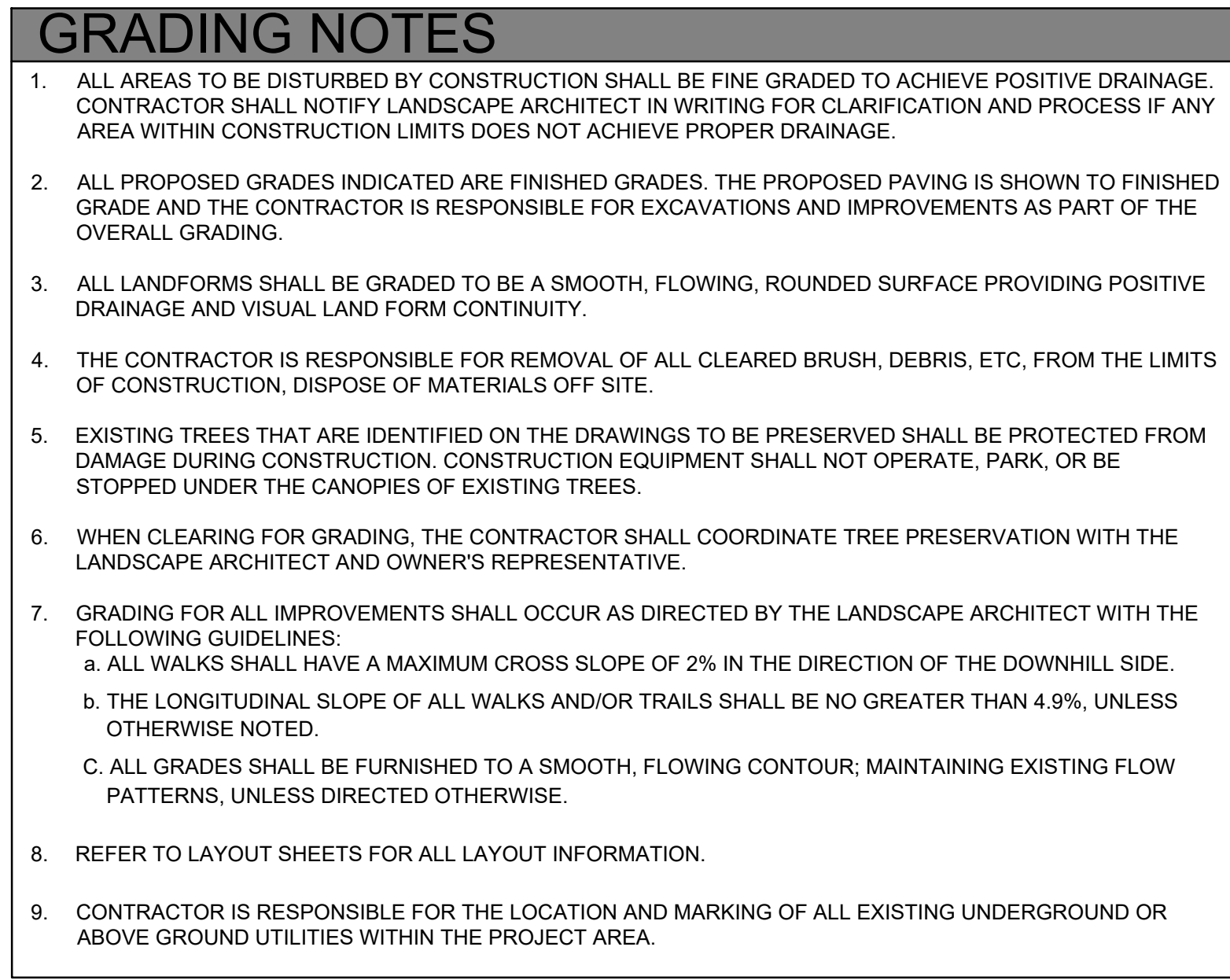
1 ULTIMATE LOAD CALCULATIONS

SCALE: NOT TO SCALE

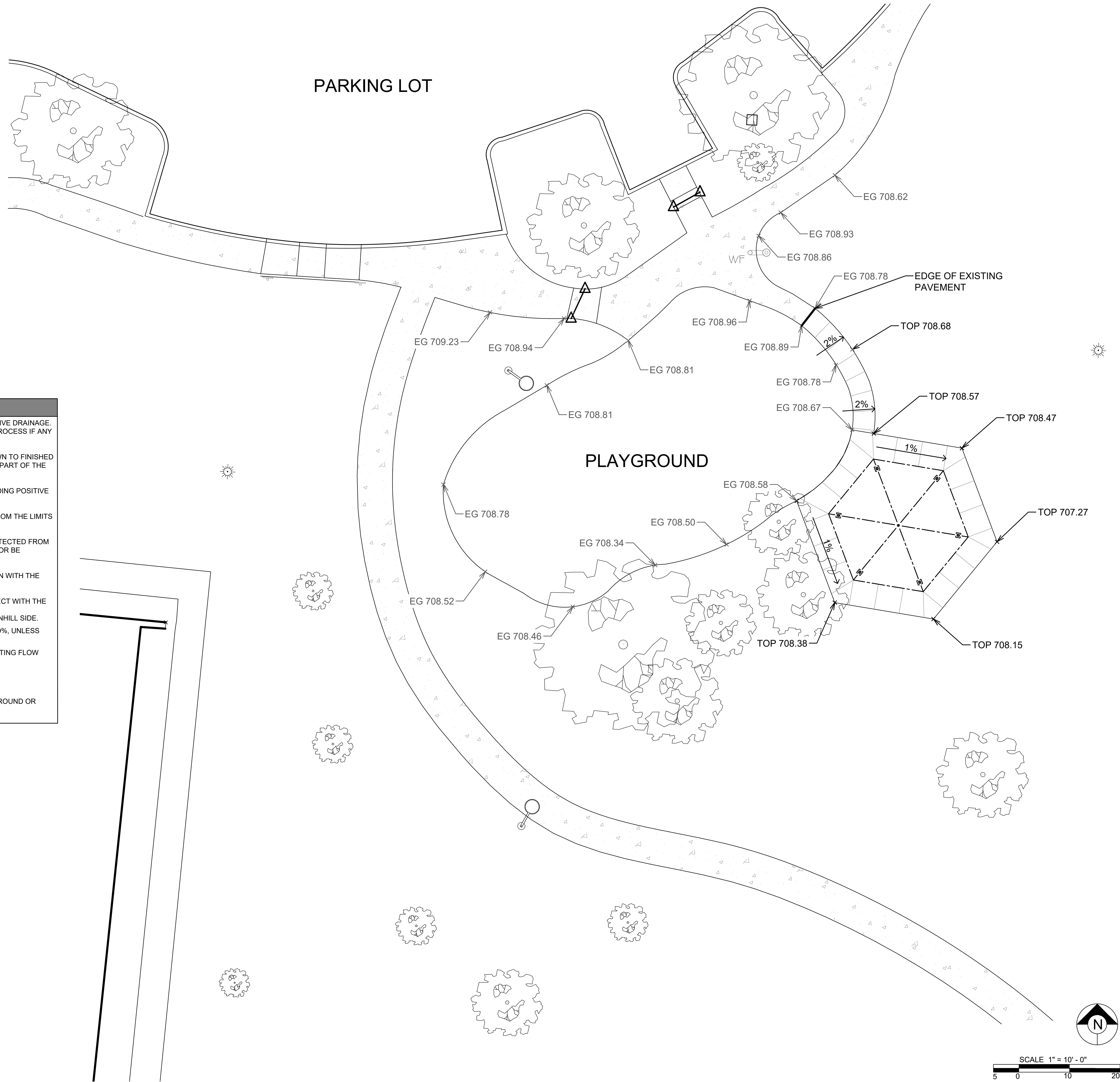


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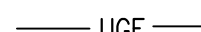
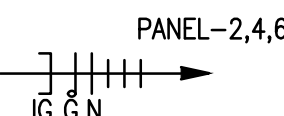
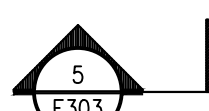


GRADING LEGEND	
EG	EXISTING GRADE XXX.XX
TOP	TOP OF PAVEMENT XXX.XX



ELECTRICAL SYMBOLS & ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

SYMBOL		DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	GENERAL NOTES	LIGHTING GENERAL NOTES
GENERAL							1. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND REVIEW ALL RELATED DRAWINGS AND SPECIFICATIONS PRIOR TO BID. 2. THE DRAWINGS ARE DIAGRAMMATICAL. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND DETERMINE CONDUIT ROUTING AND EXACT LOCATIONS OF EQUIPMENT AND DEVICES. NOTIFY THE ARCHITECT/ENGINEER IF THE APPROXIMATE CONDUIT ROUTING SHOWN ON PLANS IS NOT FEASIBLE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN. 3. LOCATIONS OF DEVICES ARE DIAGRAMMATICAL. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN. 4. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL CODES. ALL WORK SHALL MATCH THE EXISTING BUILDING'S ELECTRICAL INSTALLATION. ALL SYSTEMS SHALL BE INSTALLED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS APPROVED BY ALL AUTHORITIES HAVING JURISDICTION. 5. PROVIDE A TYPED PANEL DIRECTORY FOR EACH NEW OR MODIFIED ELECTRICAL PANEL. DIRECTORY SHALL IDENTIFY THE CIRCUIT NUMBER, DEVICES SERVED, AND LOCATION OF DEVICES BY ROOM NUMBER. FILE COPY OF DIRECTORIES WITH THE OWNER'S REPRESENTATIVE WHEN WORK IS COMPLETED, AND PROVIDE COPIES WITH THE OWNER'S MANUALS. 6. IDENTIFY PANEL AND CIRCUIT NUMBER FOR ALL INSTALLED ELECTRICAL DEVICES ON THE OUTSIDE OF THE JUNCTION BOX. 7. REFER TO SHEETS E1.1 AND E1.2 FOR ADDITIONAL GENERAL NOTES.	1. ELECTRICAL DRAWINGS INDICATE GENERAL LOCATIONS OF LIGHTING FIXTURES ONLY. FOR EXACT LOCATIONS AND SPACING, SEE ARCHITECTURAL DRAWINGS. IF CONTRACTOR DETERMINES THAT THERE IS A DIFFERENCE IN QUANTITY OF FIXTURES SHOWN ON THE ARCHITECTURAL AND ELECTRICAL DRAWINGS, HE SHALL USE THE HIGHER NUMBER OF THE TWO QUANTITIES FOR BIDDING AND THEN CONTACT THE DESIGN TEAM FOR FINAL RESOLUTION. 2. EXTERIOR LIGHTING TO BE CONTROLLED BY THE EXISTING LIGHTING CONTROL SYSTEM. 3. REFERENCE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL FIXTURE INFORMATION.
	PULL BOX	A ABV AIC	AMPERE(S) ABOVE AMPERE INTERRUPTING CAPACITY	ID IMC IN	INSIDE DIAMETER INTERMEDIATE STEEL CONDUIT INCHES			
 	EQUIPMENT CONNECTION, HARD WIRED LOCKABLE GFCI, DUPLEX RECEPTACLE 20A, 125V, 3W, NEMA 5-20R (WP = NEMA 3R WHILE IN USE)	AFG BFF BLDG	ABOVE FINISHED GRADE BELOW FINISHED FLOOR BUILDING	JB KV KVA KW KWH	JUNCTION BOX KILOVOLT KILOVOLT AMPERE KILOWATT KILOWATT HOUR			
PANELBOARDS (26 24 16)		C CB CKT COND	CONDUIT CIRCUIT BREAKER CIRCUIT CONDUCTOR	LB	POUND			
	EXISTING PANELBOARD, SURFACE MOUNTED	DIA DIST DN DWGS	DIAMETER DISTRIBUTION DOWN DRAWINGS	MAX MH MIN MLO MTG	MAXIMUM MOUNTING HEIGHT MINIMUM MAIN LUGS ONLY MOUNTING			
INTERIOR & EXTERIOR LIGHTING (26 51 00 & 26 56 00)			EC EMT EQMT EXTG	EMPTY CONDUIT ELEC. METALLIC TUBING EQUIPMENT EXISTING	NA NC NF NO N.T.S.	NOT APPLICABLE NORMALLY CLOSED NON FUSED NORMALLY OPEN NOT-TO-SCALE		
	POLE LIGHT FIXTURE	FC FLEX FN FT	FOOT CANDLES FLEXIBLE METAL CONDUIT FULL NEUTRAL FEET, FOOT	OC OH P	ON CENTER OVERHEAD POLE			
	DOWNLIGHT LIGHT FIXTURE	GALV GFCI GFI GND	GALVANIZED GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT INTERRUPTER GROUND	PEC PNL PVC PWR	PHOTO CELL PANELBOARD POLY VINYL CHLORIDE CONDUIT POWER			
RACEWAYS (26 05 33)			HID HP HOA HZ	HIGH INTENSITY DISCHARGE HORSE POWER HAND OFF AUTOMATIC HERTZ	RGS RMC SC SN SQFT SW	RIGID GALVANIZED STEEL CONDUIT RIGID METAL CONDUIT SPLIT CIRCUIT SOLID NEUTRAL SQUARE FEET,FOOT SWITCH		
	UNDERGROUND UTILITY LINE							
	EXISTING UNDERGROUND UTILITY LINE							
	CONDUIT CONCEALED IN WALL OR CEILING WITH ONE PHASE, NEUTRAL AND GROUND CONDUCTOR U.N.O.							
	UNDERGROUND BRANCH CIRCUIT							
	BRANCH CIRCUIT HOMERUN, WITH PANEL AND BREAKER POSITION INDICATED. SMALL TICK(S) = PHASE CONDUCTORS, LARGE TICK = NEUTRAL CONDUCTOR AND LARGE TICK WITH CIRCLE = GROUND CONDUCTOR.							
			REFERENCE SYMBOLS					
	CIRCUIT END EXTENSION							
	KEYED NOTE TAG, HEXAGON							
	ADDENDUM, ASI, ASR, PR TAG							
	ENLARGED PLAN, DETAIL TAG							
	ELEVATION TAG							
	SECTION TAG							



LANDSCAPE ARCHITECTURE
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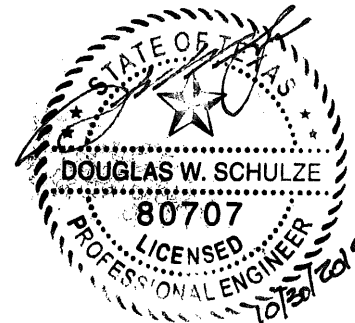
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SAN ANTONIO, TEXAS



PROJECT #: CSA20171

DESIGNED BY: J.C.

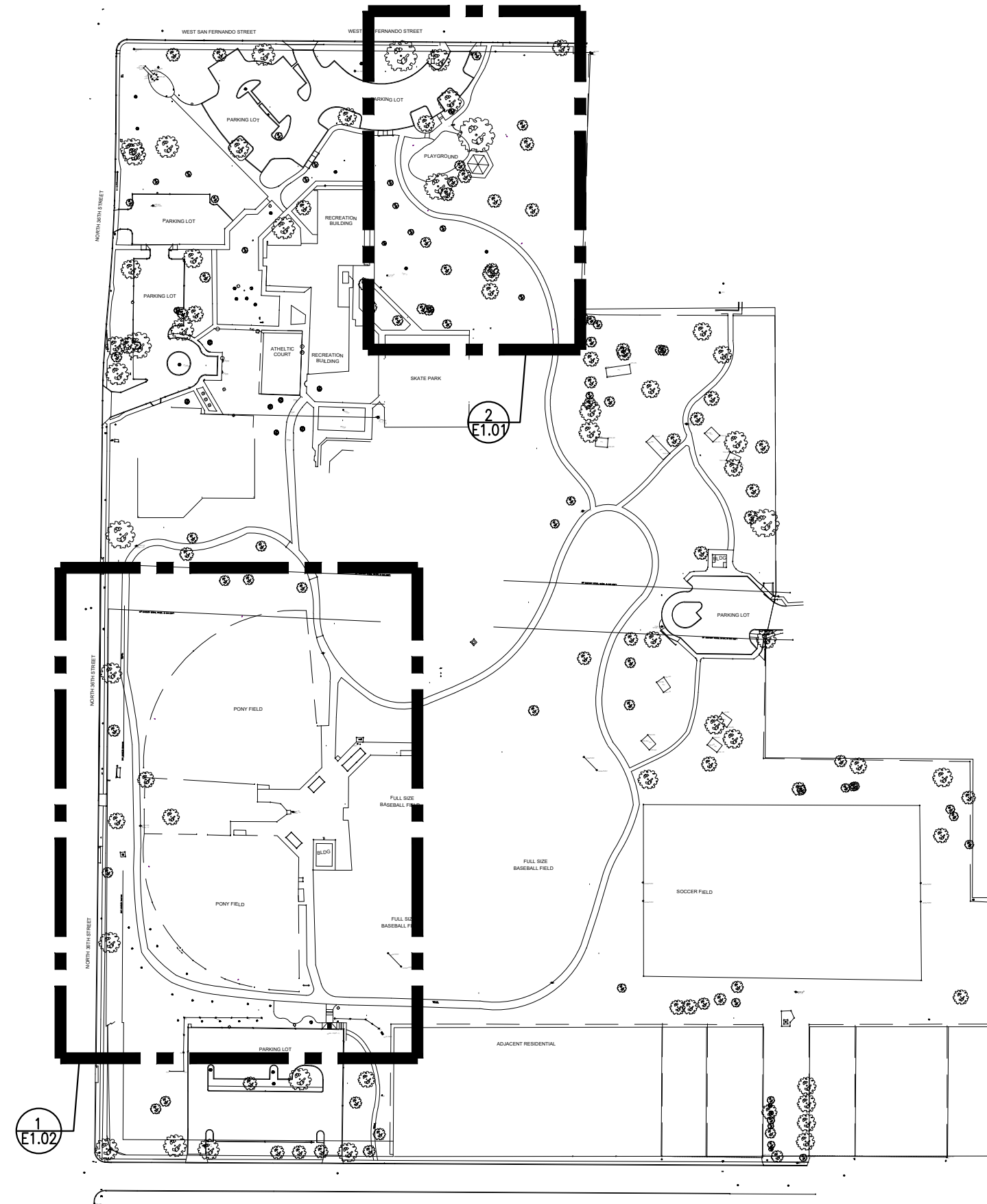
DRAWN BY: A.A.

REVIEWED BY: D.S.

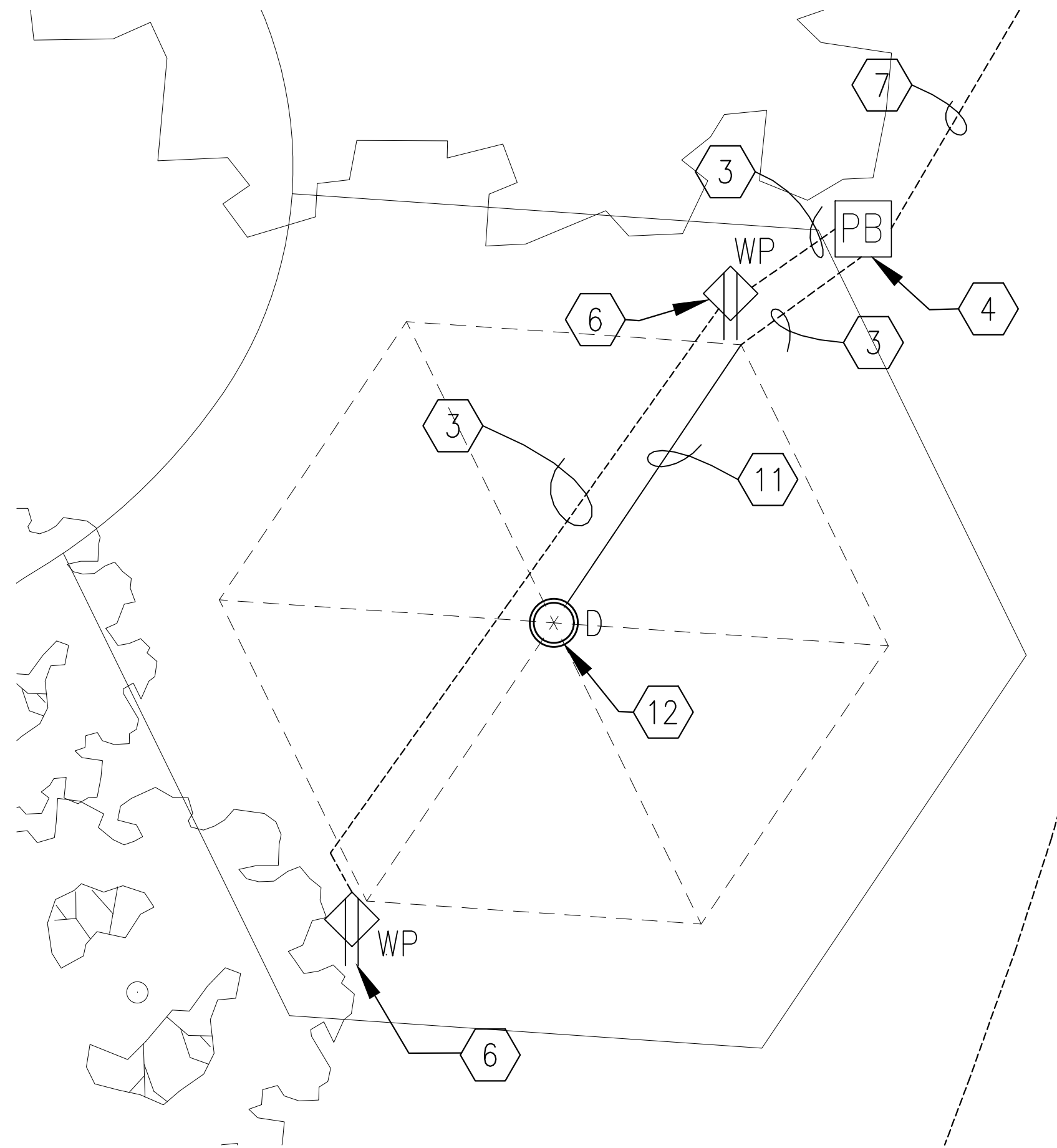
ISSUED: 11/01/2019

SHEET TITLE:
ELECTRICAL
SYMBOLS &
ABBREVIATIONS

SHEET NUMBER:
E1.00



1 PARTIAL OVERALL ELECTRICAL SITE PLAN
SCALE: NOT TO SCALE



3 ENLARGED ELECTRICAL SITE PLAN - PAVILION
SCALE: 1" = 15'

WEST SAN FERNANDO STREET



2 ELECTRICAL SITE PLAN - PLAYGROUND
SCALE: 1" = 30'



CNG ENGINEERING
MEP DESIGN/PLANNING/COMMISSIONING
1917 N NEW BRAUNFELS AVE, SUITE 201
SAN ANTONIO, TEXAS 78208
T 210.224.8841 F 210.224.8224
www.cngengineering.com
TBPE FIRM # F-7964

KEYED NOTES: (THIS SHEET ONLY)

- EXISTING METERED SERVICE, ELECTRICAL PANEL AND TIMECLOCK TO REMAIN. REFER TO SHEET E2.01, DETAIL NO. 1 FOR ADDITIONAL INFORMATION.
- INTERCEPT ELECTRICAL CONDUIT SERVING LIGHT POLE AND LEAVE READY FOR INSTALLATION OF IN-GRADE JUNCTION BOX AND EXTENSION OF CIRCUIT TO NEW POLE MOUNTED PEDESTRIAN LIGHT. PROVIDE MEDIUM DUTY PULLBOX PER TYPICAL DETAIL 1/E3.01.
- PROVIDE UNDERGROUND BRANCH CIRCUIT WITH (2)#10, (1)#10 GND. IN 1" C.
- PROVIDE MEDIUM DUTY PULLBOX PER TYPICAL DETAIL 1/E3.01.
- PROVIDE BORE UNDER CONCRETE SIDEWALK FOR NEW UNDERGROUND BRANCH CIRCUIT.
- GFCI RECEPTACLE WITH LISTED WHILE-IN-USE LOCKABLE COVER. PROVIDE DIE-CAST ALUMINUM WHILE-IN-USE COVER EQUAL TO INTERMATIC WP1030MXD. REFER TO DETAIL 3/E3.01.
- PROVIDE UNDERGROUND BRANCH CIRCUIT WITH (4)#10, (1)#10 GND. IN 1" C.
- RECONNECT EXISTING POLE MOUNTED LIGHT FIXTURE AT NEW PULLBOX. UNDERGROUND ELECTRICAL CIRCUIT TO EXISTING LIGHT POLE TO REMAIN.
- ALTERNATE 1: REPLACE EXISTING LIGHTING FIXTURES WITH NEW LED LIGHTING FIXTURE AS SPECIFIED. VERIFY CIRCUIT CONFIGURATION AND VOLTAGE PRIOR TO PURCHASING FIXTURES. EXTEND 2#10,#10G, IN 1" C TO NEW POLE MOUNTED PEDESTRIAN LIGHTING FIXTURE. COORDINATE MOUNTING BRACKET REQUIREMENTS WITH EXISTING POLE TO REMAIN.
- ALTERNATE 1: PROVIDE UNDERGROUND BRANCH CIRCUIT TO NEW LIGHT POLE WITH (2)#10, (1)#10 GND. IN 1" C.
- PROVIDE BRANCH CIRCUIT TO CEILING FOR PAVILION LIGHT FIXTURE WITH (2)#10, (1)#10 GND. IN 1" C. COORDINATE WITH PAVILION VENDOR TO ACCOMMODATE USE OF HOLLOW SUPPORT STRUCTURE FRAME TO HOUSE CONDUIT AND WIRING FOR FIXTURE MOUNTED TO CEILING.
- COORDINATE WITH PAVILION VENDOR TO PROVIDE FLAT SURFACE FOR INSTALLATION OF DOWNLIGHT TO INTERIOR CEILING ABOVE CENTER OF PAVILION.

GENERAL NOTES: (THIS SHEET ONLY)

- CONDUCT ALL DEMOLITION WORK IN SUCH A MANNER AS TO MAINTAIN A SAFE WORK ENVIRONMENT AND IN ACCORDANCE WITH APPLICABLE SAFETY RULES AND PROCEDURES WITHIN NEC, NECA AND OSHA REQUIREMENTS.
- SURVEY AREAS OF THE FACILITY SCHEDULED FOR RENOVATION OR PARTIAL DEMOLITION PRIOR TO ANY WORK BEING PERFORMED. SUBMIT REPORT OF THE PRE-WORK SURVEY DETAILING ANY UTILIZATION EQUIPMENT OR SYSTEMS THAT ARE NOT IN GOOD WORKING ORDER IN ADVANCE OF ANY DEMOLITION WORK AND REVIEW WITH THE OWNER'S REPRESENTATIVE.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION OR DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE TO USE CALL 811 FOR LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING OR TRENCHING.
- RESTORE CIRCUITS, UTILIZATION EQUIPMENT AND SYSTEMS AFFECTED BY SELECTIVE DEMOLITION TO THE CONDITION NOTED IN THE PRE-WORK SURVEY REPORT. ELECTRICAL CIRCUITS WITH A PORTION OF THE LOAD REMOVED SHALL HAVE THE REMOVED LOADS ASSOCIATED CIRCUITRY TERMINATED IN SUCH A MANNER THAT THE REMAINING LOAD REMAINS FULLY OPERATIONAL.
- THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR SALVAGED MATERIAL. REQUEST THAT THE OWNER PROVIDE DIRECTION ON DISPOSITION OF SALVAGED MATERIAL FIVE(5) WORKING DAYS PRIOR TO REMOVAL. IF SO DIRECTED BY THE OWNER, SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION AS DIRECTED. REMOVE AND DISPOSE ANY SALVAGED MATERIAL NO RETAINED BY THE OWNER.
- DAMAGED AREAS CAUSED BY REMOVAL OF ANY OF THE ABOVE ITEMS AND WHICH ARE NOT CONCEALED BY NEW CONSTRUCTION SHALL BE REPAIRED TO MATCH ADJACENT SURFACES.
- CONTRACTOR SHALL SUBMIT WRITTEN REQUEST TO SHUT OFF POWER TO THE SITE OR ELECTRICAL DEMOLITION AND NEW WORK 10 DAYS PRIOR TO SHUTOFF.
- FOR SYMBOLS AND ABBREVIATIONS, REFER TO SHEET E0.0.
- PROVIDE SCH. 80 PVC DIRECT-BURIAL CONDUITS. BURY CONDUITS A MINIMUM OF 24" BELOW FINISHED GRADE OR PAVEMENT. PROVIDE CONCRETE CAP NOT LESS THAN 2" THICK ABOVE DIRECT BURIED LOW VOLTAGE CONDUITS WHERE SUBJECT TO VEHICULAR OR EXCAVATION DAMAGE OR WHERE MINIMUM BURIAL DEPTH CANNOT BE ACHIEVED.
- CONTRACTOR SHALL POT-HOLE AROUND/NEAR ALL EXISTING UTILITIES SHOWN ON SITE PLAN TO VERIFY LOCATION AND DEPTH PRIOR TO BEGINNING ANY CONSTRUCTION. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND PROJECT MANAGER FOR FURTHER DIRECTION.
- REFER TO DETAIL 2/E3.01 FOR LIGHT POLE FOOTING DETAILS.
- REFER TO DETAIL 5/E3.01 AND 6/E3.01 FOR TRENCHING DETAILS.

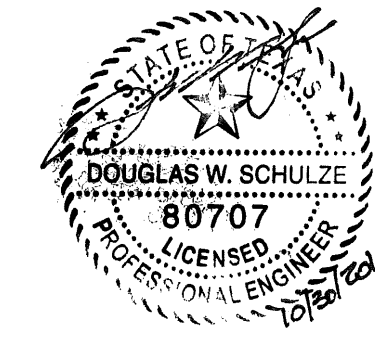


**LANDSCAPE ARCHITECTURE
PLANNING
URBAN DESIGN**
2722 W. BITTERS RD, STE #114
SAN ANTONIO, TX 78248
P: 210-908-6736
WWW.GOOPENAIR.COM

**PROJECT:
CUELLAR PARK**

**OWNER:
CITY OF SAN ANTONIO**

**LOCATION:
SAN ANTONIO, TEXAS**



PROJECT #: CSA20171
DESIGNED BY: J.C.
DRAWN BY: A.A.
REVIEWED BY: D.S.

ISSUED: 11/01/2019

**SHEET TITLE:
ELECTRICAL
SITE PLAN**

**SHEET NUMBER:
E1.01**

KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE PROVIDE EMPTY 1-1/4" CONDUIT WITH PULLSTRING AT INDICATED LOCATION.
2. ALTERNATE 2: PROVIDE UNDERGROUND BRANCH CIRCUIT TO SPORT LIGHTING POLE WITH (2)#8, (1)#8 GND, IN 1-1/4" C. (SCH. 80 PVC)
3. ALTERNATE 3: PROVIDE UNDERGROUND BRANCH CIRCUIT TO SPORT LIGHTING POLE WITH (2)#8, (1)#8 GND, IN 1-1/4" C. (SCH. 80 PVC)
4. ALTERNATE 2: PROVIDE SPORT LIGHTING POLE WITH (2) SPORTS LIGHTS. REFER TO GENERAL NOTE K ON THIS SHEET FOR AIMING AND CONTROL DETAILS.
5. ALTERNATE 2: PROVIDE SPORT LIGHTING POLE WITH (1) SPORTS LIGHT. REFER TO GENERAL NOTE K ON THIS SHEET FOR AIMING AND CONTROL DETAILS.
6. ALTERNATE 3: PROVIDE SPORT LIGHTING POLE WITH (2) SPORTS LIGHTS. REFER TO GENERAL NOTE K ON THIS SHEET FOR AIMING AND CONTROL DETAILS.
7. ALTERNATE 3: PROVIDE (1) SPORTS LIGHT TO BE MOUNTED TO SPORTS LIGHTING POLE AT LOCATION. REFER TO GENERAL NOTE K ON THIS SHEET FOR AIMING AND CONTROL DETAILS.
8. PROVIDE MEDIUM DUTY PULLBOX PER TYPICAL DETAIL 1/E3.01.
9. EXISTING METERED SERVICE, AND ELECTRICAL EQUIPMENT TO REMAIN. REFER TO SHEET E2.01, DETAIL NO. 2 FOR ADDITIONAL INFORMATION.
10. ALTERNATE 2: ADD SURGE PROTECTION DEVICE TO EXISTING PANEL
11. PROVIDE BORE UNDER CONCRETE SIDEWALK FOR NEW UNDERGROUND BRANCH CIRCUIT.

GENERAL NOTES: (THIS SHEET ONLY)

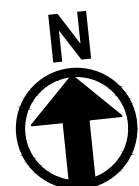
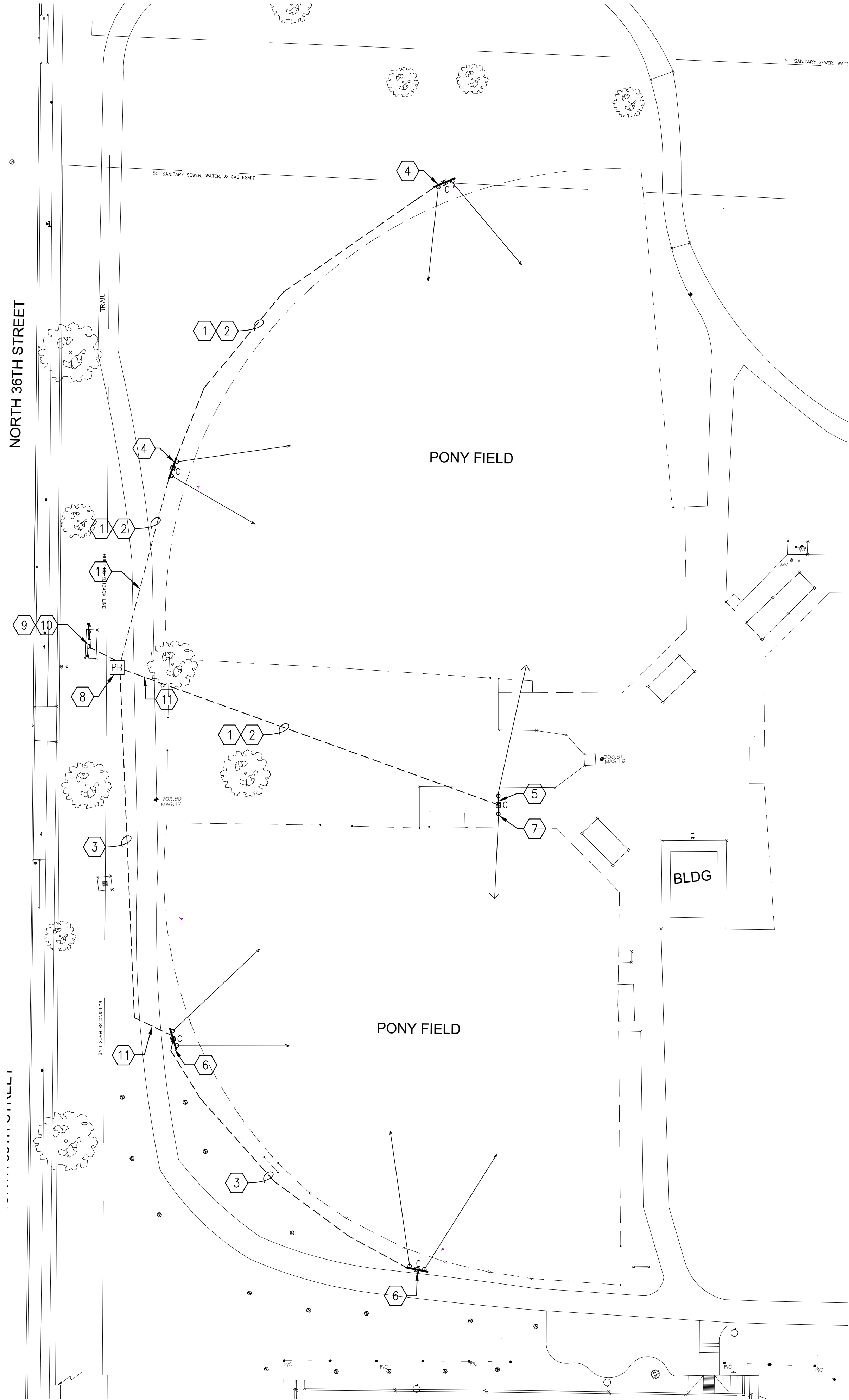
- A. CONDUCT ALL DEMOLITION WORK IN SUCH A MANNER AS TO MAINTAIN A SAFE WORK ENVIRONMENT AND IN ACCORDANCE WITH APPLICABLE SAFETY RULES AND PROCEDURES WITHIN NEC, NECA AND OSHA REQUIREMENTS.
- B. SURVEY AREAS OF THE FACILITY SCHEDULED FOR RENOVATION OR PARTIAL DEMOLITION PRIOR TO ANY WORK BEING PERFORMED. SUBMIT REPORT OF THE PRE-WORK SURVEY DETAILING ANY UTILIZATION EQUIPMENT OR SYSTEMS THAT ARE NOT IN GOOD WORKING ORDER IN ADVANCE OF ANY DEMOLITION WORK AND REVIEW WITH THE OWNER'S REPRESENTATIVE.
- C. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION OR DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE TO USE CALL 811 FOR LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING OR TRENCHING.
- D. RESTORE CIRCUITS, UTILIZATION EQUIPMENT AND SYSTEMS AFFECTED BY SELECTIVE DEMOLITION TO THE CONDITION NOTED IN THE PRE-WORK SURVEY REPORT; ELECTRICAL CIRCUITS WITH A PORTION OF THE LOAD REMOVED SHALL HAVE THE REMOVED LOADS ASSOCIATED CIRCUITRY TERMINATED IN SUCH A MANNER THAT THE REMAINING LOAD REMAINS FULLY OPERATIONAL.
- E. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR SALVAGED MATERIAL. REQUEST THAT THE OWNER PROVIDE DIRECTION ON DISPOSITION OF SALVAGED MATERIAL FIVE(5) WORKING DAYS PRIOR TO REMOVAL. IF SO DIRECTED BY THE OWNER, SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION AS DIRECTED. REMOVE AND DISPOSE ANY SALVAGED MATERIAL NO RETAINED BY THE OWNER.
- F. DAMAGED AREAS CAUSED BY REMOVAL OF ANY OF THE ABOVE ITEMS AND WHICH ARE NOT CONCEALED BY NEW CONSTRUCTION SHALL BE REPAIRED TO MATCH ADJACENT SURFACES.
- G. CONTRACTOR SHALL SUBMIT WRITTEN REQUEST TO SHUT OFF POWER TO THE SITE OR ELECTRICAL DEMOLITION AND NEW WORK 10 DAYS PRIOR TO SHUTOFF.
- H. FOR SYMBOLS AND ABBREVIATIONS, REFER TO SHEET E0.0.
- I. PROVIDE SCH. 80 PVC DIRECT-BURIAL CONDUITS. BURY CONDUITS A MINIMUM OF 24" BELOW FINISHED GRADE OR PAVEMENT. PROVIDE CONCRETE CAP NOT LESS THAN 2" THICK ABOVE DIRECT BURIED LOW VOLTAGE CONDUITS WHERE SUBJECT TO VEHICULAR OR EXCAVATION DAMAGE OR WHERE MINIMUM BURIAL DEPTH CANNOT BE ACHIEVED.
- J. CONTRACTOR SHALL POT-HOLE AROUND/NEAR ALL EXISTING UTILITIES SHOWN ON SITE PLAN TO VERIFY LOCATION AND DEPTH PRIOR TO BEGINNING ANY CONSTRUCTION. IF DISCREPANCIES ARE FOUND, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND PROJECT MANAGER FOR FURTHER DIRECTION.
- K. SPORTS LIGHTING FIXTURES SHALL BE AIMED AS SHOWN ON PLANS WITH BEAM ANGLES ALL BELOW 90 DEGREES FROM NADIR. LIGHTING FIXTURES TO BE CONTROLLED THROUGH EXISTING TIME CLOCK SYSTEM. REFER TO SHEET

NOTE:

PROPOSED LIGHTS DO NOT MEET UIL COMPETITION LIGHTING REGULATIONS. PROPOSED LIGHTING IS SERVING ONLY AS ADDITIONAL SOURCE OF LIGHT FOR FIELDS PER REQUEST OF CITIZENS AT PUBLIC MEETINGS.

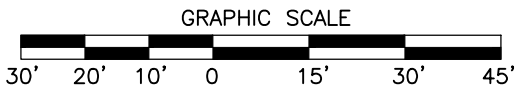
NORTH 36TH STREET

CONCRETE SIDEWALK



1 ELECTRICAL SITE PLAN - PONY FIELDS

SCALE: 1" = 30'



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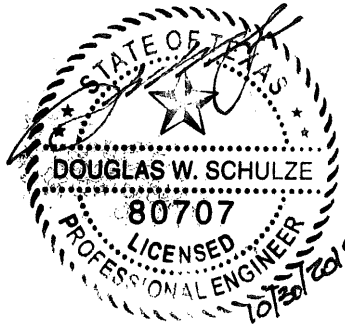
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PROJECT:
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LOCATION:
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DESIGNED BY: J.C.

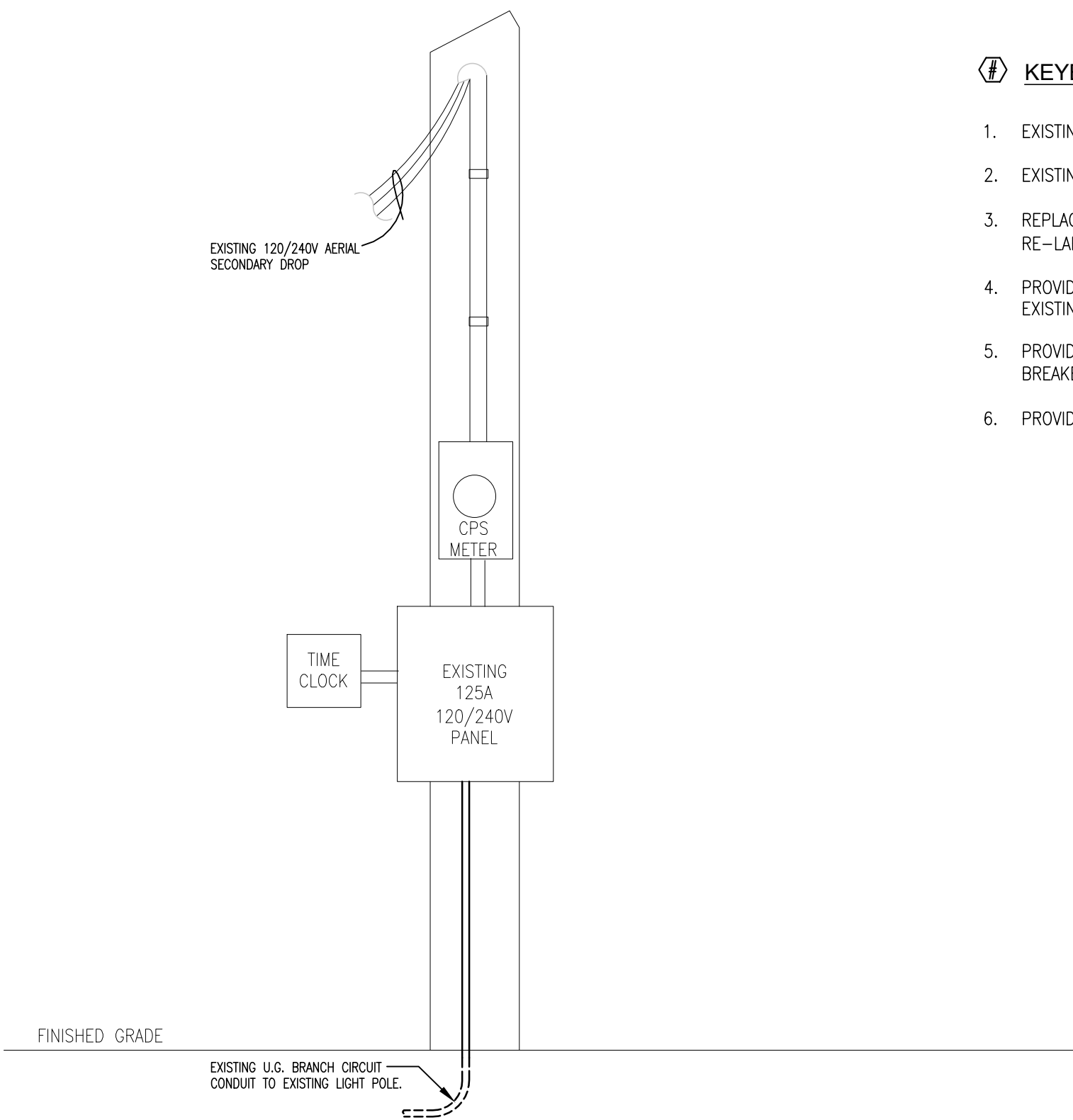
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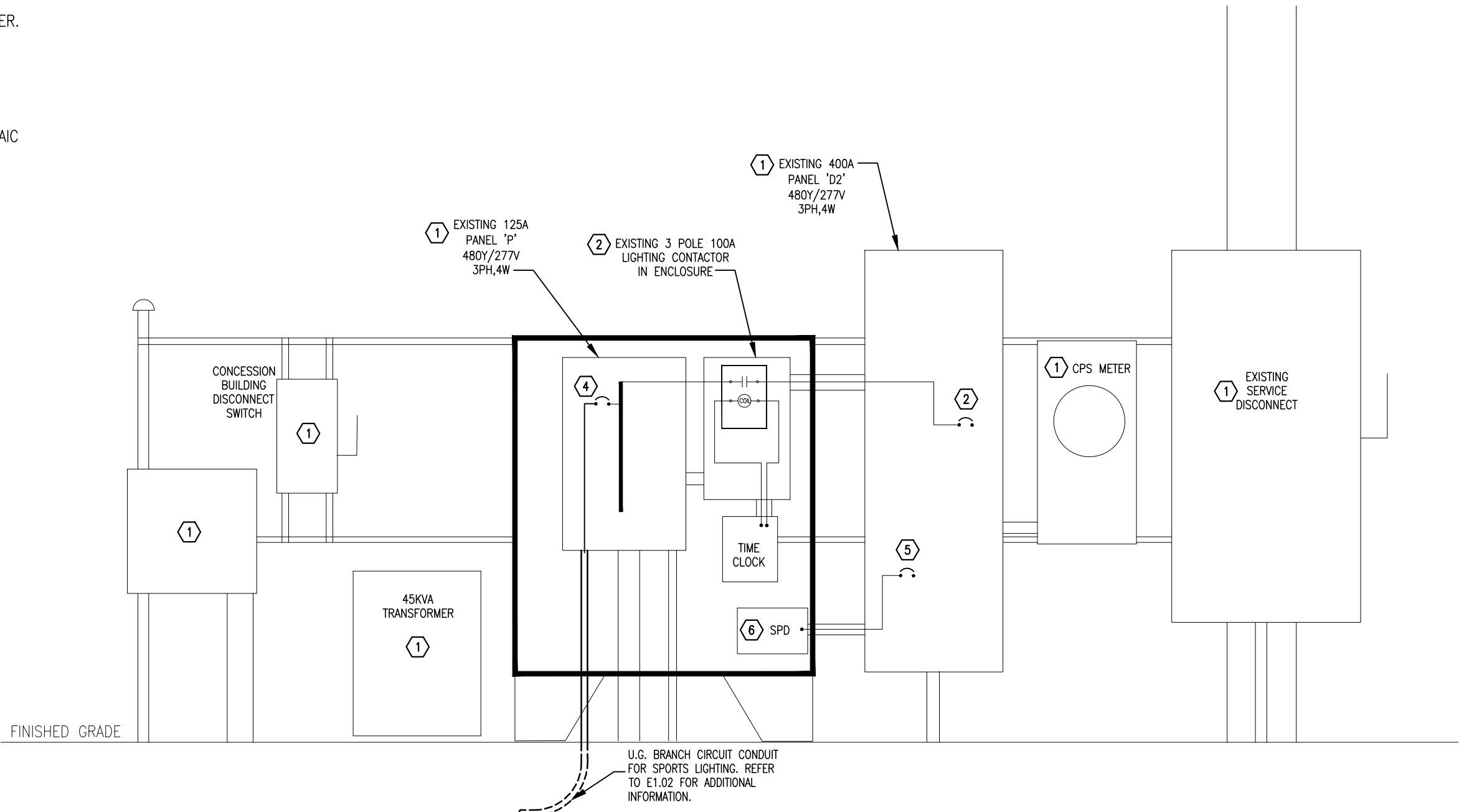
SHEET NUMBER:
E1.02



1 EXISTING ELECTRICAL SERVICE - PLAYGROUND
SCALE: NOT TO SCALE

KEYED NOTES: (THIS SHEET ONLY)

- EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
- EXISTING LIGHTING CONTACTOR SERVING PANEL 'P' TO REMAIN.
- REPLACE EXISTING 125A, 3 POLE 'TRANSFORMER' BREAKER WITH A NEW 100A 3 POLE BREAKER. RE-LABEL BREAKER 'PANEL P'. MATCH EXISTING AIC BREAKER RATINGS.
- PROVIDE NEW 30A, 2 POLE BREAKER FOR SPORTS LIGHTING POLE BRANCH CIRCUITS. MATCH EXISTING AIC BREAKER RATINGS.
- PROVIDE NEW 30A, 3 POLE BREAKER FOR NEW SURGE PROTECTION DEVICE. MATCH EXISTING AIC BREAKER RATINGS. CONNECT TO SPD WITH (3)#10, (1)#10 GND. IN 1" RGS.
- PROVIDE NEW SURGE PROTECTION DEVICE (SPD), INSTALL INSIDE EXISTING N3R ENCLOSURE.



2 ALTERNATE 2: EXISTING ELECTRICAL SERVICE - PONY FIELDS
SCALE: NOT TO SCALE

ANALYSIS OF PROJECTED ELECTRICAL LOAD
CUELLAR PARK LIGHTING

11/1/2019
PLAYGROUND AREA
SERVICE VOLTAGE: 240/120V, 1Ph., 3W

LOAD DESCRIPTION				CONNECTED LOAD, VA	NEC LOAD	
					KVA	AMPERES
EXISTING LOADS (FROM UTILITY DEMAND):				NOTES		
PRIOR 12 MONTH PEAK DEMAND (APRIL, 2019)				2 kW @ 1 PF	2.000	2.0
REMOVED LOADS				NOTES		
LIGHTING (REMOVED AS ALTERNATE 1)				(2.000)	(2.0)	(8)
SUBTOTAL					(2)	(8)
NEW OR ADDED LOADS						
LOAD DESCRIPTION				DEMAND FACTOR	NOTES	CONNECTED LOAD, KVA
						KVA
GENERAL PURPOSE RECEPTACLES				1.00	2	0.4
EXTERIOR LIGHTING				1.25		2.3
CONNECTED NEW LOADS SUBTOTAL						2.7
NET SUBTOTAL OF EXISTING, DEMO, AND NEW LOADS						1.3
LOAD GROWTH ALLOWANCE 25%						8
TOTAL						9
SERVICE ENTRANCE DESIGN (TRANSFORMER/ MAIN PANEL)						36
						100

NOTES: 1 EXISTING DEMAND LOAD DETERMINED IN ACCORDANCE WITH NEC 220.87
2 LOAD GROWTH ALLOWANCE IS CALCULATED AT 25% OF SERVICE PANEL RATING (125A)
3 PROJECT MODIFICATIONS RESULT IN A NET REDUCTION OF ENERGY CONSUMPTION.

ANALYSIS OF PROJECTED ELECTRICAL LOAD
CUELLAR PARK LIGHTING

11/1/2019
PONY FIELDS
SERVICE VOLTAGE: 480/277V, 3 Ph., 4W (NEC T220.12)

LOAD DESCRIPTION				CONNECTED LOAD, VA	NEC LOAD	
					KVA	AMPERES
EXISTING LOADS (FROM UTILITY DEMAND):				NOTES		
PRIOR 12 MONTH PEAK DEMAND (RECEIVED FROM CPSE 8/23/2019)				23 kW @ 0.8 PF	28,750	35.9
NEW OR ADDED LOADS						
LOAD DESCRIPTION				DEMAND FACTOR	NOTES	CONNECTED LOAD, KVA
						KVA
EXTERIOR LIGHTING				1.25		2.1
CONNECTED NEW LOADS SUBTOTAL						2
NET SUBTOTAL OF EXISTING, DEMO, AND NEW LOADS						39
LOAD GROWTH ALLOWANCE 10%						4
TOTAL						42
SERVICE ENTRANCE DESIGN (TRANSFORMER/ MAIN PANEL)						400

NOTES: 1 EXISTING DEMAND LOAD DETERMINED IN ACCORDANCE WITH NEC 220.87

EXISTING PLAYGROUND PANEL

PROJECT: CUELLAR PARK LIGHTING MAIN CIRCUIT BREAKER: ENCLOSURE: NEMA 3R
PROJECT #: 0023-19 MAIN LUGS ONLY: 125A MOUNTING: SURFACE
LOCATION: PLAYGROUND BUSSING: 125A OCP TYPES: PLUG-IN
NOTES: VOLTAGE: 120/240V, 1-PH, 3-W PROVIDE: NEUTRAL BUS
INTERRUPTING: 10 KAIC RMS SYM GROUND BUS

CKT	AMPS	POLE	CIRCUIT DESCRIPTION				LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION				AMPS	POLE	CKT
1	20*	2	PLAYGROUND PAVILION & PATH LIGHTING**				1,160	2				SPARE				20	1	2
3							1,160	2	B			SPARE				20	1	4
5	20	1					PAVILION RECEPTACLES				360	0	A			SPARE		
			PANEL	SUB	FEED	TOTAL	TOTAL DEMAND NOTES:											
			VA	FEED	THRU	CONN	VA	AMPS	**CONNECT NEW LIGHTING TO EXISTING CIRCUIT ON PANEL.									
PHASE A			1,520	0	0	1,520	1,848	15	**LOAD REFLECTS BASE BID ONLY, WITHOUT ALT 1 REPLACEMENT OF CURRENT LIGHT.									
PHASE B			1,160	0	0	1,160	1,410	12										
TOTAL			2,679	0	0	2,679	3,259	14	REVISIONS:									
CNG ENGINEERING, PLLC. R3.1 - Nov. 4																		

LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS	MOUNTING	MOUNT HEIGHT	VOLTS	WATTS	DESCRIPTION	MANUFACTURER AND CATALOG NO.
A	LED	POLE	20	240	66	POLE MOUNTED PEDESTRIAN SCALE LED ARE LIGHT. TYPE 3 DISTRIBUTION. BUG RATING 1-0-2	BEACON LIGHTING - VP-S-36L-65-3K7-3 POLE - RTS-25-59-11-AN-(FINISH)-D19-BC
B1	LED	POLE	20	240	66	POLE MOUNTED PEDESTRIAN SCALE LED ARE LIGHT. TYPE 4 DISTRIBUTION. BUG RATING 1-0-2	BEACON LIGHTING - VP-S-36L-65-3K7-4 POLE - RTS-25-59-11-AN-(FINISH)-D19-BC
B2	LED	POLE	20	240	66	POLE MOUNTED PEDESTRIAN SCALE LED ARE LIGHT. TYPE 4 DISTRIBUTION. BUG RATING 1-0-2. MOUNTED ON EXISTING POLE. MODIFY EXISTING YOKE FOR INSTALLATION.	BEACON LIGHTING - VP-S-36L-65-3K7-4
C	LED	POLE	40	480	419	YOKE MOUNTED LED SPORTS LIGHT WITH UPLIGHT HOOD. MOUNTED WITH BEAM ANGLES ALL BELOW 90 DEGREES FOR NADIR. 40' POLE WITH CROSS ARM. PROVIDE 2 FIXTURE HEADS PER POLE. MOUNT AS SHOWN ON PLANS.	BEACON LIGHTING - VFS-Y-63L-440-3K7-6-480-3C POLE - RTS-39-90-7-AB-G-ACR2
D	LED	SURFACE	12	240	55	ROUND, EDGE-LIT, LOW PROFILE FIXTURE. DIE CAST ALUMINUM HOUSING WITH CORROSION RESISTANT POWDER COAT FINISH AND ONE PIECE MOLDED SILICONE GASKET. IP65 AND UL1598 LISTED FOR USE IN WET LOCATIONS. INCLUDE BIRD DETERRENT SHIELD.	BEACON LIGHTING - SRT1-55-3K7-5QW-240 BIRD DETERRENT - SRT1-BRD



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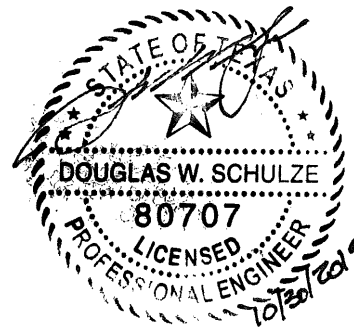
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REVIEWED BY: D.S.

ISSUED: 11/01/2019

SHEET TITLE:
ELECTRICAL
DIAGRAMS,
LOAD ANALYSIS
AND SCHEDULES

SHEET NUMBER:
E2.01



LANDSCAPE ARCHITECTURE
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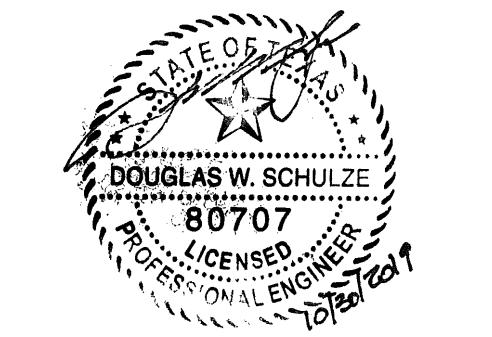
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DETAILS

SHEET NUMBER:
E 3.01



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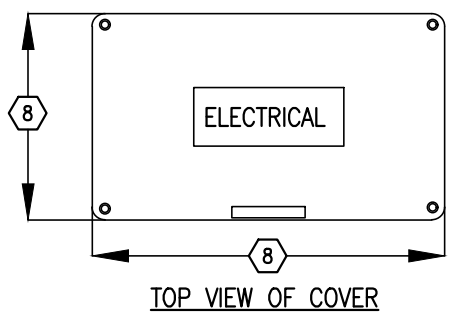
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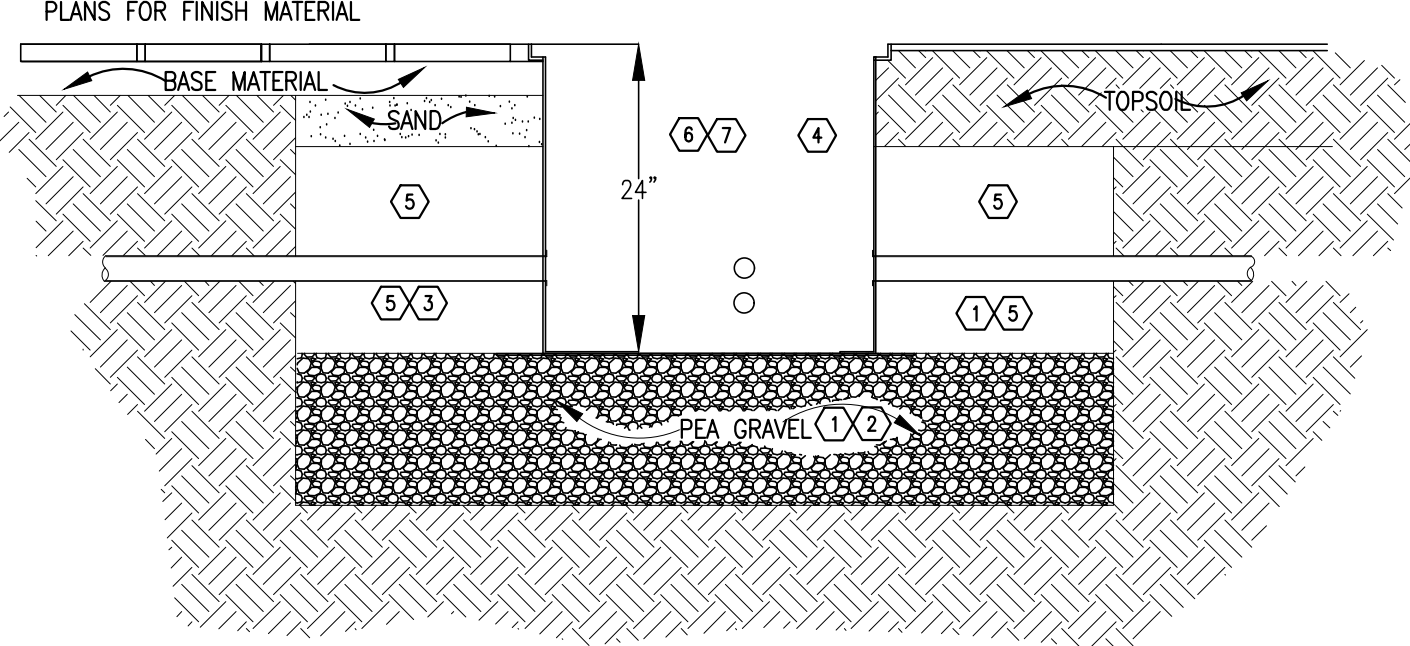
PROVIDE MARKING MOLDED IN
SQUARE SLIP-RESISTANT COVER



PULLBOXES SHALL BE OLDCASTLE
SYNERTECH COMPOSITE OR APPROVED
EQUAL.

FLUSH SOLID, COMPOSITE COVER WITH
LID GASKET AND HEX-HEAD STAINLESS
STEEL FASTENERS (SHOWN
ABOVE BOX FOR CLARITY)

REFER TO ARCHITECTURAL
PLANS FOR FINISH MATERIAL



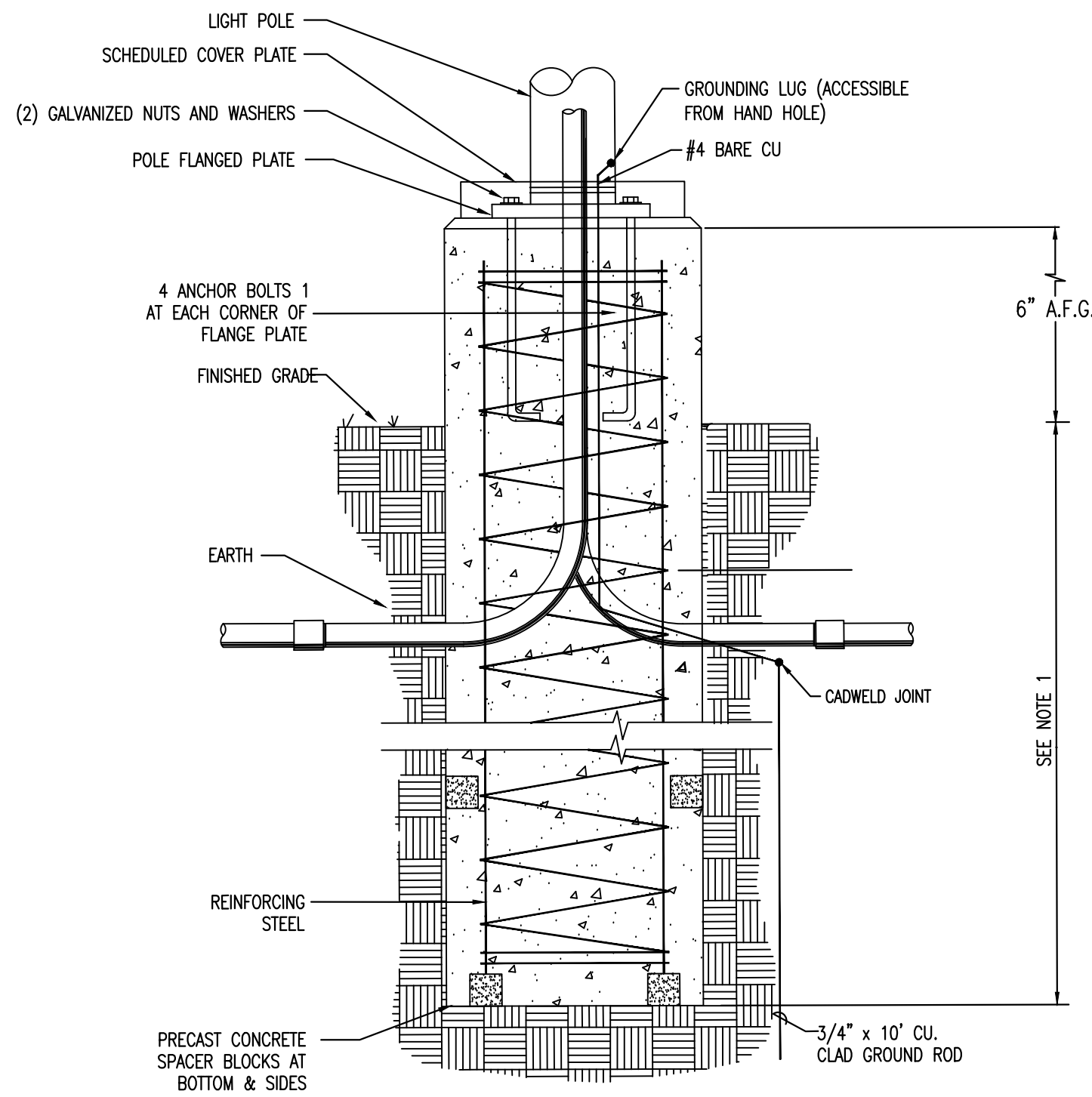
SCHEDULED
RACEWAY
(MAX. 2")

KEYED NOTES: (DETAIL 2 ONLY)

- OVEREXCAVATE 18" ALL AROUND ENCLOSURE AND 12" ADDITIONAL DEPTH.
- PLACE 1/2" CRUSHED STONE OR PEA GRAVEL AT BASE OF EXCAVATED HOLE.
- PLACE 1/2" SQUARE GALVANIZED HARDWARE CLOTH BELOW PULLBOX, 6" LARGER IN EACH DIMENSION.
- INSTALL PULLBOX PER MANUFACTURER'S WRITTEN DIRECTIONS.
- USE HAND OPERATED MECHANICAL TAMPER TO COMPACT BACKFILL TO SAME LEVEL.
- CONDUIT(S) EXITING FROM SIDE OF PULLBOX.
- ALL WIRING SPLICES AT PULLBOX SHALL BE MADE WITH CONNECTORS LISTED FOR DIRECT BURIAL. POLARIS SLWB SERIES OR APPROVED EQUIVALENT.
- PROVIDE 9" X 11" SIZE BOX

1 MEDIUM DUTY PULLBOX (NON-DELIVERATE TRAFFIC)

SCALE: N.T.S.



NOTES:

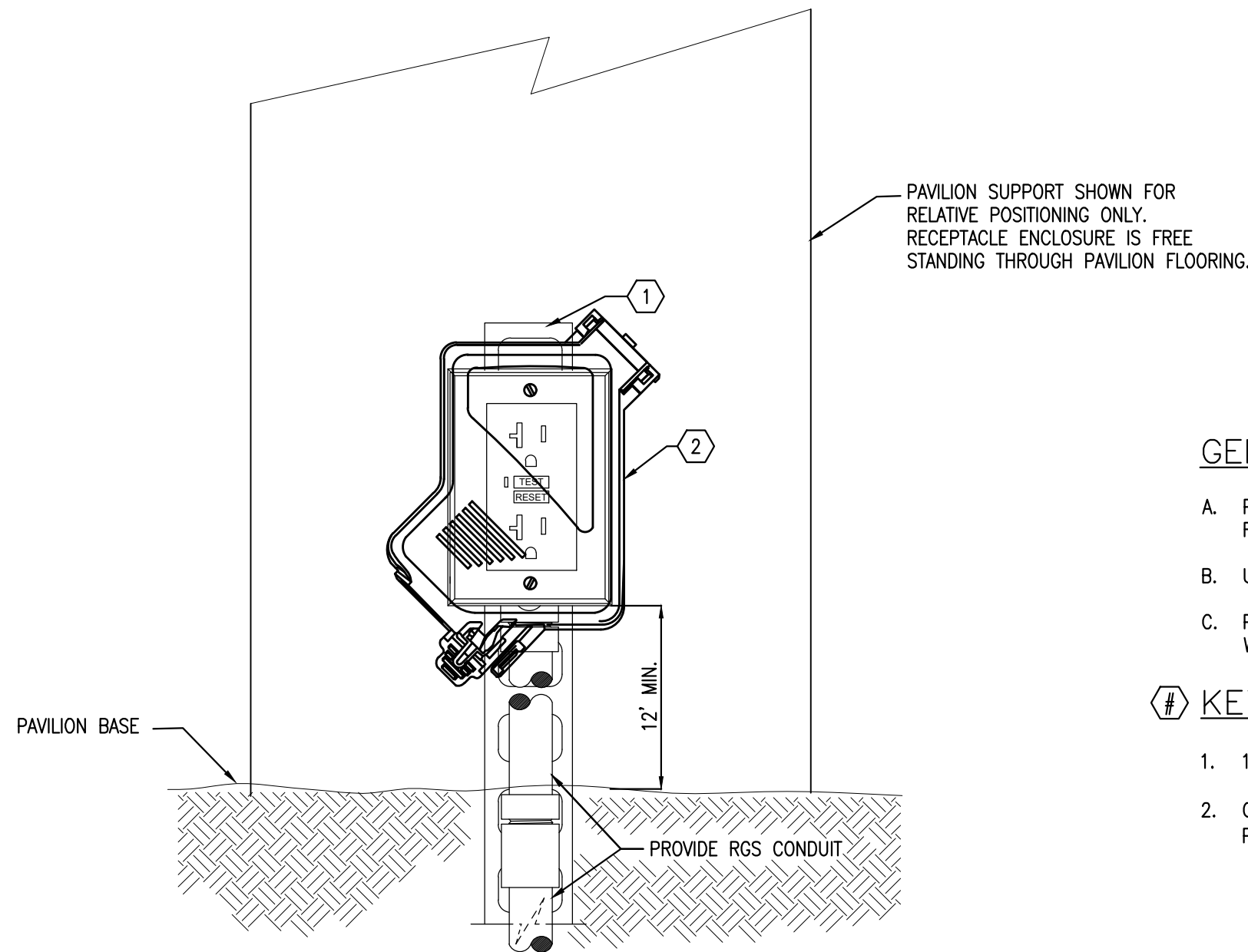
- REFER TO STRUCTURAL DRAWINGS FOR POLE BASE DIAMETER, DEPTH CONCRETE, AND REINFORCEMENT REQUIREMENTS.
- PROVIDE RUBBED FINISH AT EXPOSED SURFACE OF BASE.
- PROVIDE 1" CHAMFER FINISH AT TOP EDGE.
- CONDUIT WITHIN CONCRETE BASE SHALL BE RIGID GALVANIZED STEEL (RGS), WRAPPED WITH UL LISTED CORROSION PROTECTIVE TAPE OR PVC COATED RGS.
- RE: SPECIFICATIONS FOR UNDERGROUND BRANCH CONDUIT REQUIREMENTS.

2 POLE FOOTING DETAIL

SCALE: N.T.S.

3 PAVILION RECEPTACLE DETAIL

SCALE: N.T.S.



GENERAL NOTES: (DETAIL 3 ONLY)

- PROVIDE HOT DIPPED GALVANIZED FLOOR MOUNT POST BASE AS BRACING FOR RECEPTACLE AND UNISTRUT MOUNTING.
- UNIT SHALL BE PAINTED TO MATCH LANDSCAPE.
- PROVIDE DIE-CAST ALUMINUM WHILE-IN-USE COVER EQUAL TO INTERMATIC WP1250MWXD.

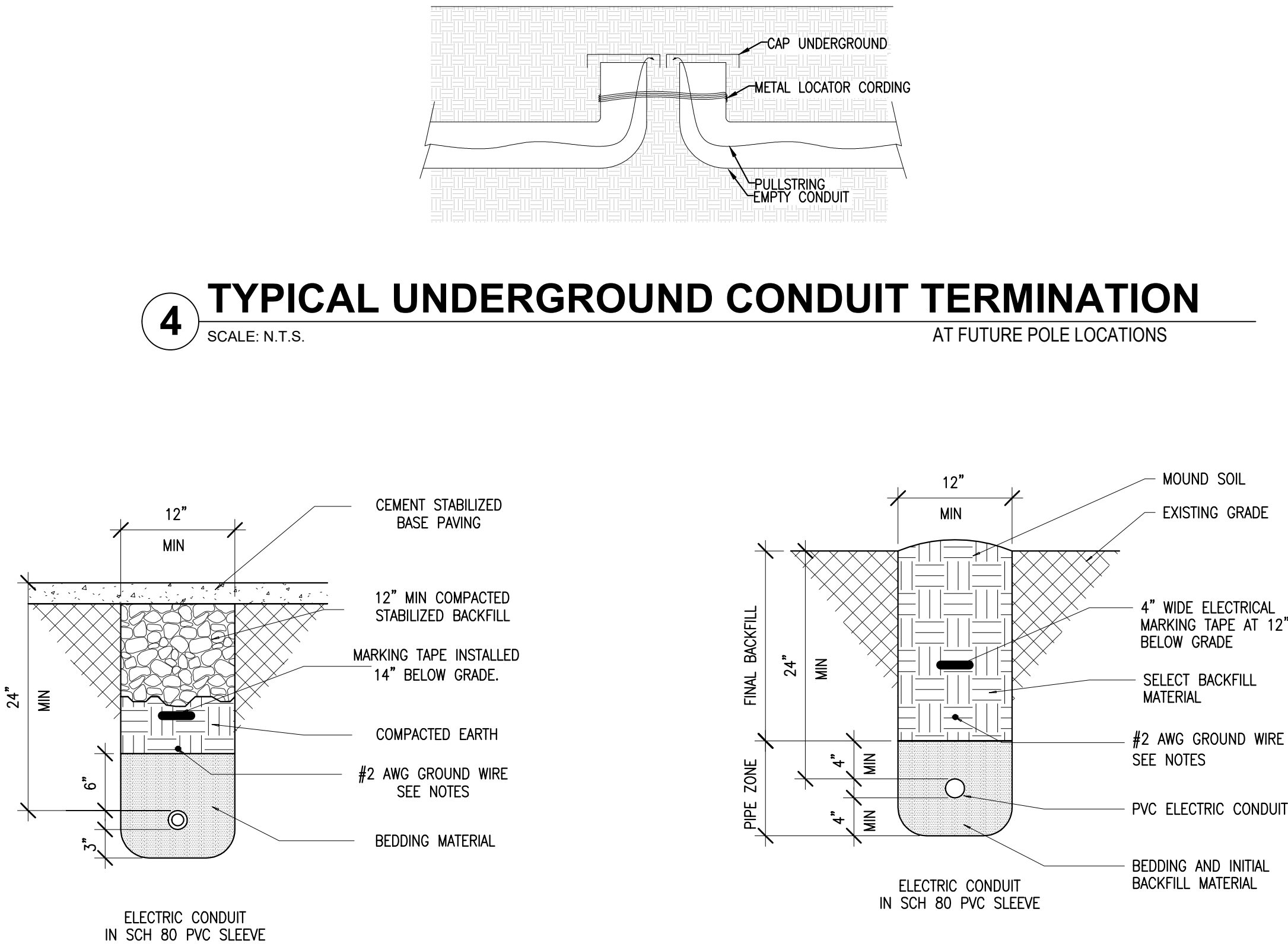
KEYED NOTES: (DETAIL 3 ONLY)

- 1-1/4" X 1-1/4" GALVANIZED STEEL CHANNEL. (TYPICAL)
- ONE(1) WEATHERPROOF J-BOX WITH A 20-AMP GFI RECEPTACLE. PROVIDE A "WHILE-IN-USE" COVER.

4 TYPICAL UNDERGROUND CONDUIT TERMINATION

SCALE: N.T.S.

AT FUTURE POLE LOCATIONS



5 TRENCHING DETAIL PAVEMENT CROSSING AREAS

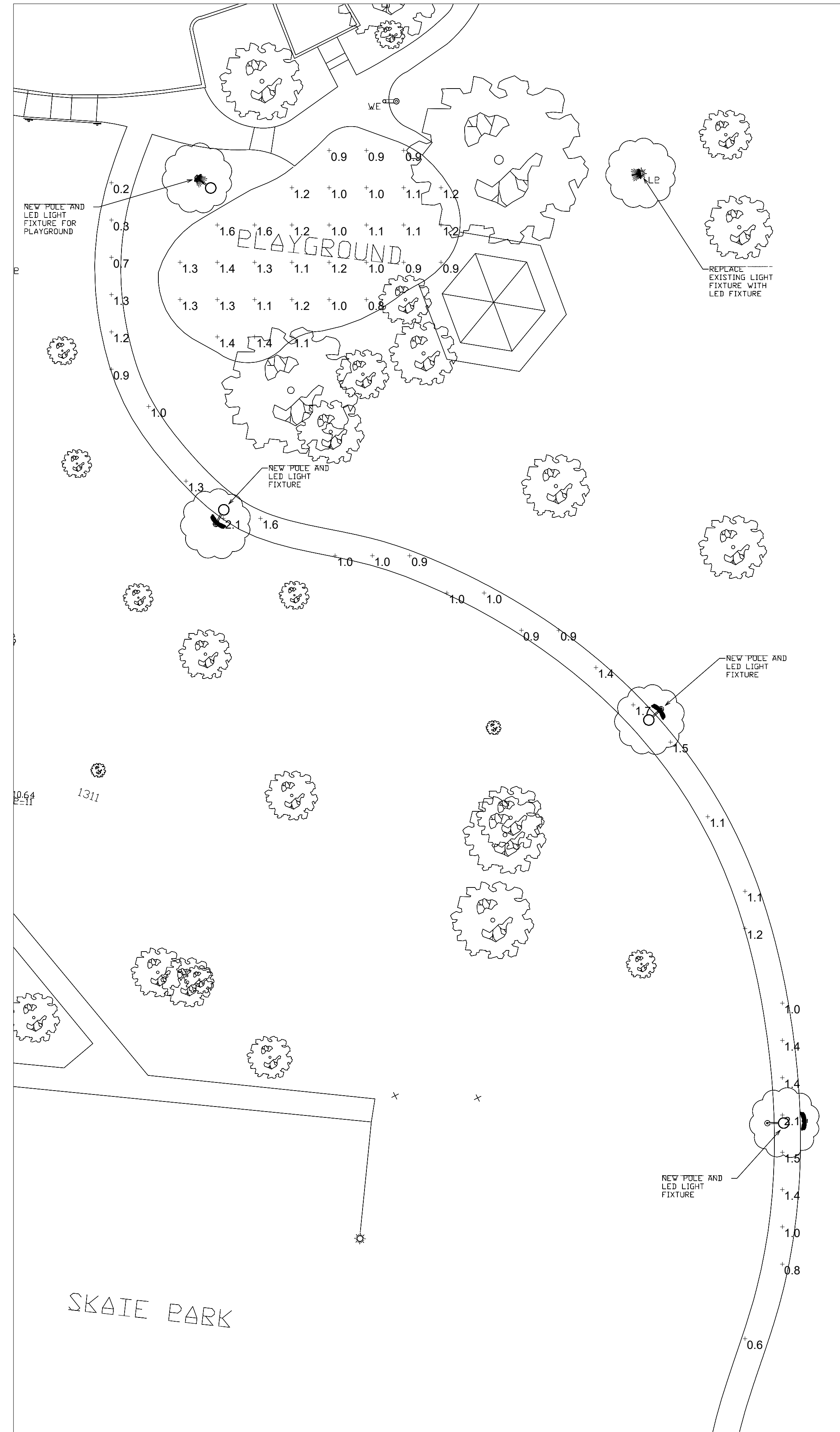
NOT TO SCALE

6 TRENCHING DETAIL GRASSLAND AREAS

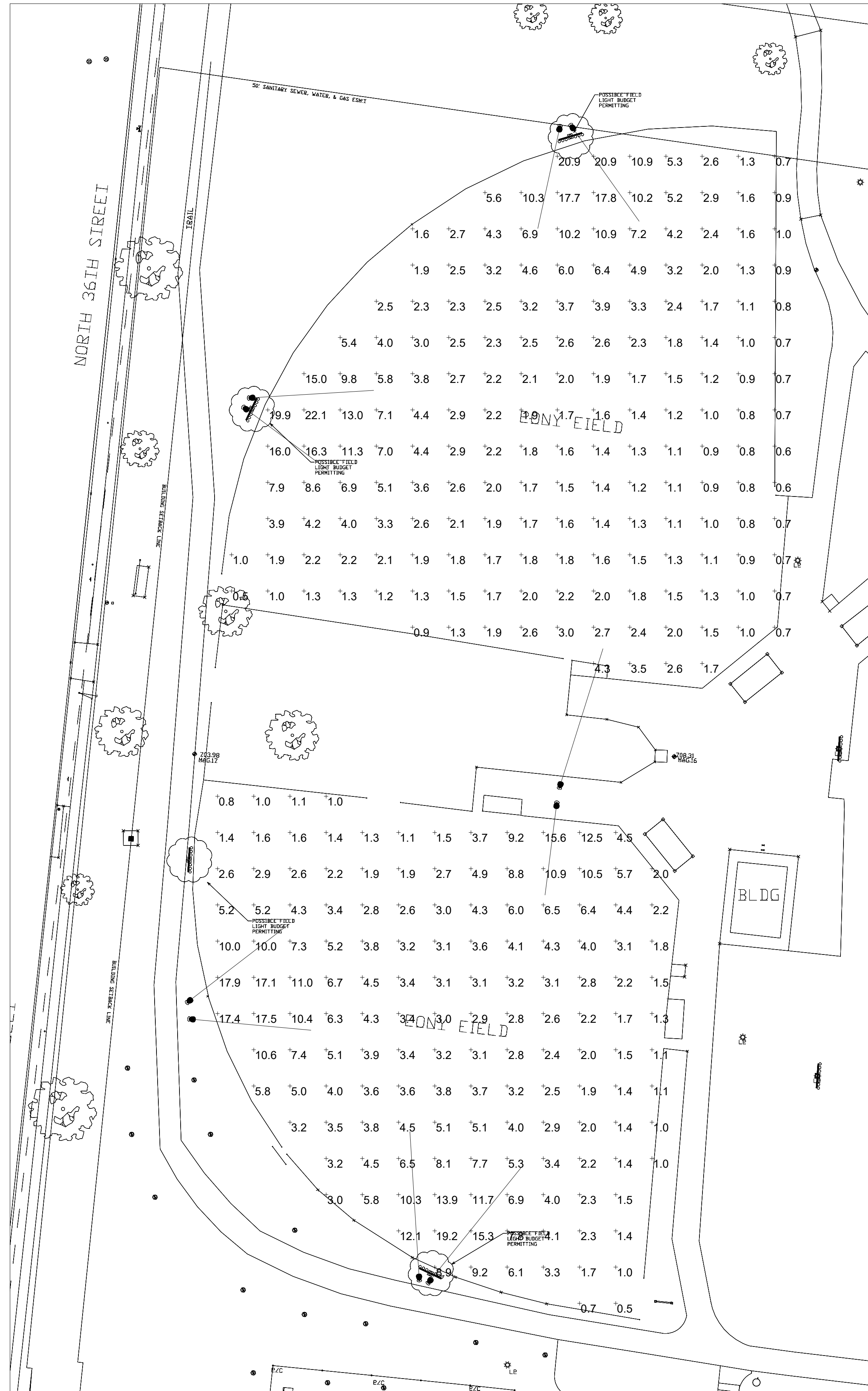
NOT TO SCALE

TRENCHING NOTES (DETAIL 5 AND 6 ONLY):

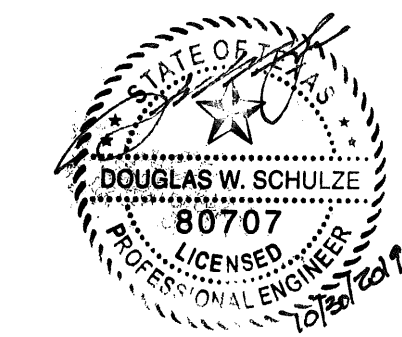
- AT EACH ELECTRICAL SERVICE POINT: INSTALL A BARE, #2 AWG COPPER WIRE IN ONE CONTINUOUS LENGTH TO A POINT APPROXIMATELY 100' FROM THE SERVICE POINT IN ONE OF THE NEW TRENCHES INSTALLED FROM THE SERVICE POINT. INSTALL THIS WIRE AT THE TOP OF THE BEDDING MATERIAL LAYER OF THE BACKFILL. DO NOT BRING THIS WIRE UP INTO ANY CAMPSITE POWER OUTLETS. THIS WIRE WILL ONLY BE CONNECTED TO THE NEW GROUND ROD AT EACH SERVICE LOCATION. THE PURPOSE OF THIS WIRE IS TO PROVIDE A LOW RESISTANCE GROUND PATH IN ADDITION TO THE GROUND ROD.
- WHERE MORE THAN ONE CONDUIT IS INSTALLED IN A TRENCH, THE CONDUITS SHALL BE SEPARATED BY A MINIMUM OF 2" OF BEDDING AND TRENCH WIDTH SHALL BE ADJUSTED AS NECESSARY TO ACCOMMODATE MULTIPLE CONDUITS. IF THE CONDUITS ARE STACKED VERTICALLY, THEY SHALL BE SEPARATED BY A MINIMUM OF 4" OF BEDDING MATERIAL AND THE TRENCH DEPTH SHALL BE ADJUSTED ACCORDINGLY TO MAINTAIN THE DEPTHS TO TOP OF CONDUIT SHOWN ON THESE DETAILS.



PHOTOMETRICS - PLAYGROUND
1 NOT TO SCALE



PHOTOMETRICS - PONY FIELDS
2 NOT TO SCALE





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**LANDSCAPE ARCHITECTURE
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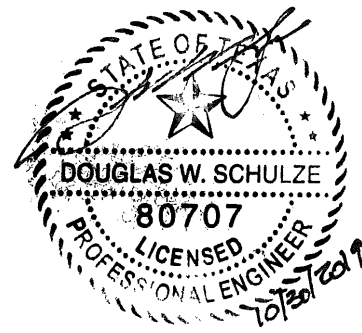
2722 W. BITTERS RD, STE #114
SAN ANTONIO, TX 78248

P: 210-908-6736
WWW.GOOPENAIR.COM

**PROJECT:
CUELLAR PARK**

**OWNER:
CITY OF SAN ANTONIO**

**LOCATION:
SAN ANTONIO, TEXAS**



PROJECT #: CSA20171

DESIGNED BY: J.C.

DRAWN BY: A.A.

REVIEWED BY: D.S.

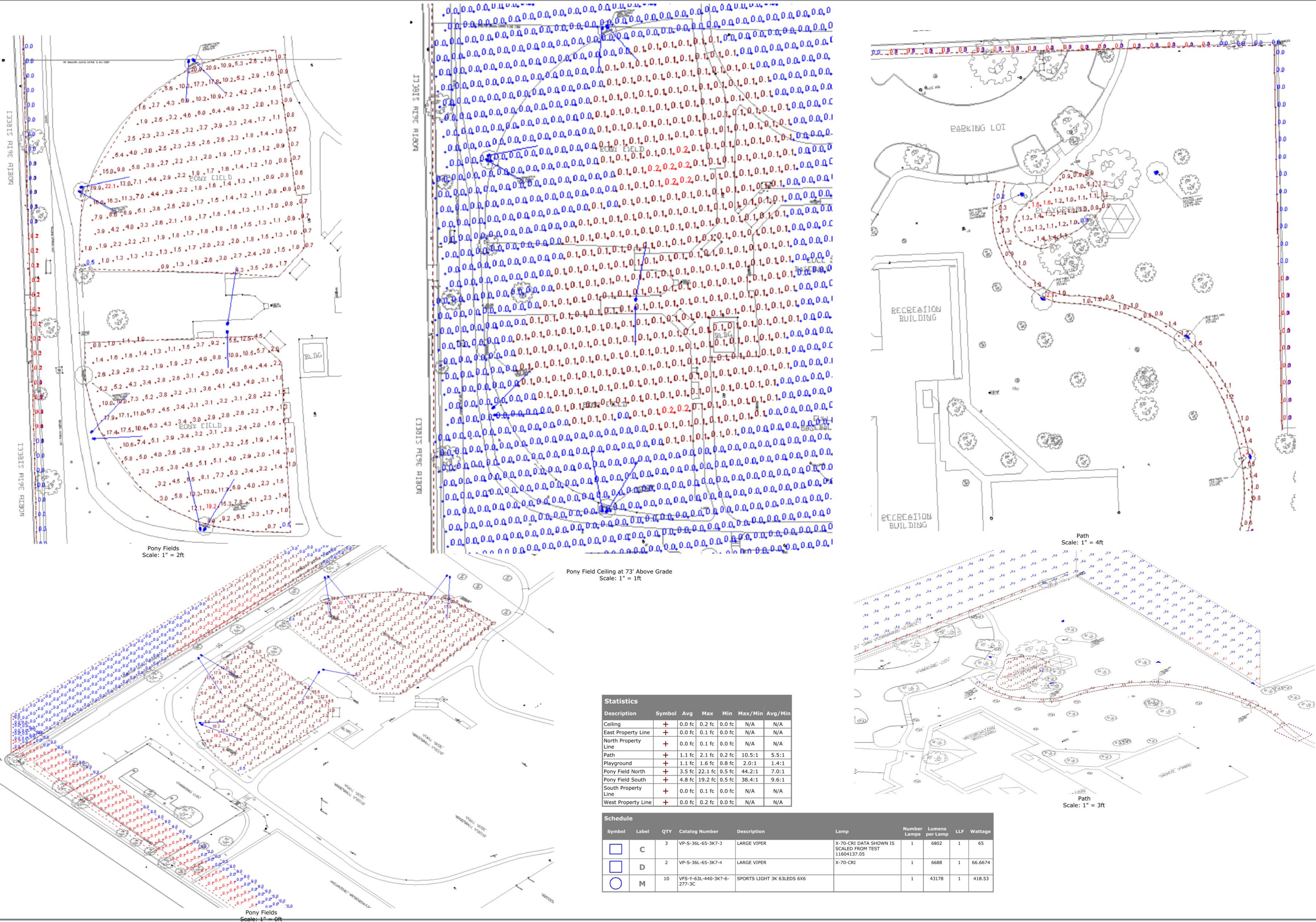
ISSUED: 11/01/2019

Cuellar Park
Preliminary Photometric Calculations

Designer
Amy McFadden
Date
8/23/2019
Scale
Not to Scale
Drawing No.
Summary
1 of

**SHEET TITLE:
ELECTRICAL
LIGHTING
PHOTOMETRICS**

**SHEET NUMBER:
E4.02**



PHOTOMETRICS

1 NOT TO SCALE