HISTORIC AND DESIGN REVIEW COMMISSION

September 21, 2016

Agenda Item No: 2

HDRC CASE NO:	**2016-364**
COMMON NAME:	Lackland Corridor
ZONING:	UZROW
CITY COUNCIL DIST.:	4
APPLICANT:	Alma Nunez/City of San Antonio
OWNER:	Texas Dept. of Transportation, Joint Base San Antonio
TYPE OF WORK:	Park improvements

REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to:

1. Construct 75' monument with lighting
2. Construct concrete wall with texture around monument
3. Construct storm water improvements
4. Plant 161 trees
5. Construct parking area with 19 spaces
6. Construct picnic shade canopy
7. Construct restroom building
8. Construct two truss bridges
9. Install plaza paving and trails

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:

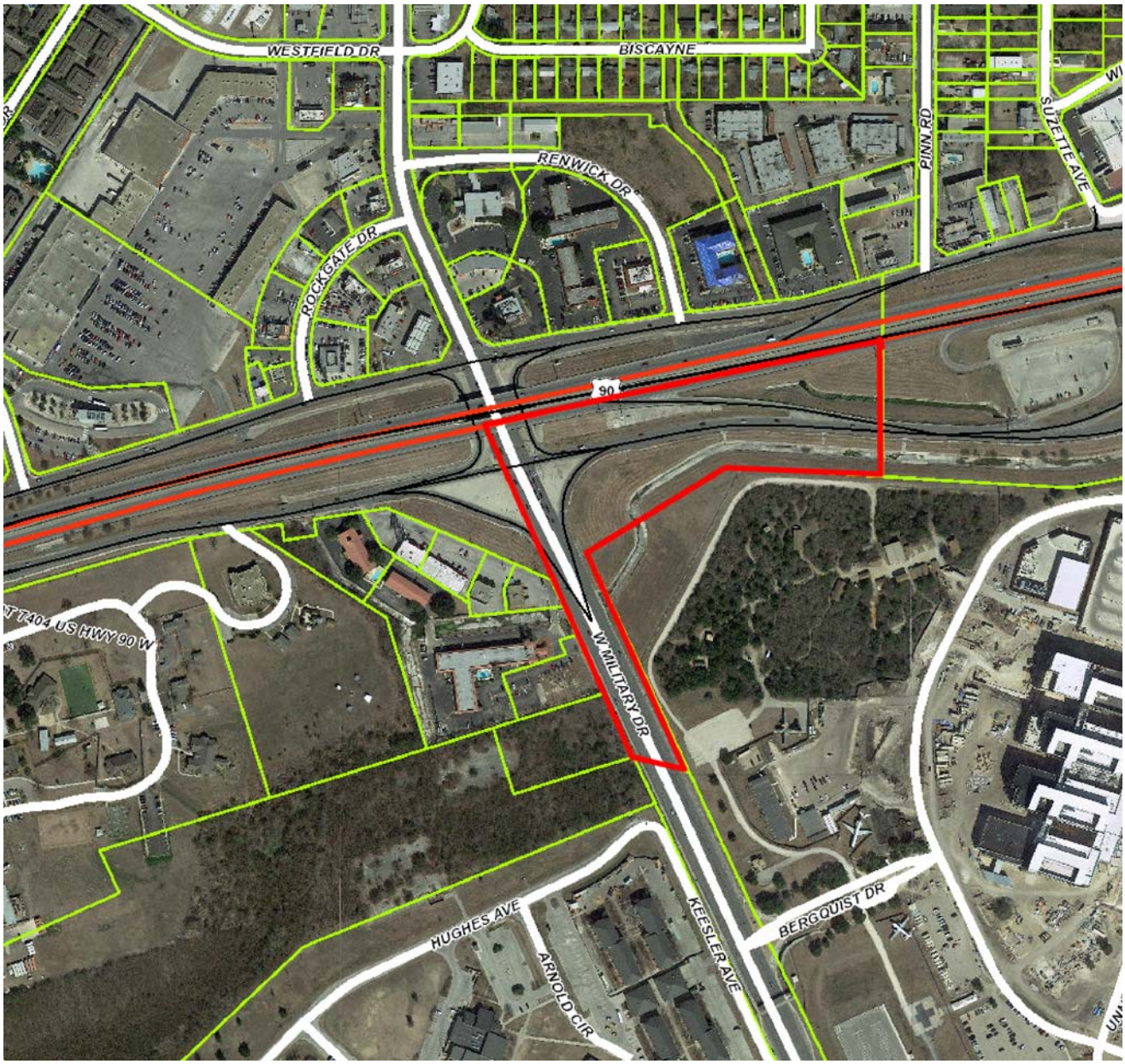
a. The site at the corner of Highway 90 West and West Military Drive in the right of way is a vacant area. The applicant is proposing to make site enhancements to create the gateway into the Join Base San Antonio at Lackland.
b. The applicant is proposing to install a 75’ monument at the corner of two highways. The monument will be metal and designed by local artist George Schroder, lit at night with LED light fixtures and surrounded by brick paving and concrete textured site wall with varying height and 9’ at its maximum. This monument is consistent with the UDC Sec 35-642(b)(7).
c. The applicant is proposing to make storm water improvements, plant 161 trees, construct a parking area with 19 spaces, and install concrete trails around the site. These improvements are appropriate for its location and will allow accessibility to the park, consistent with UDC Sec 35-642(b)(3).
d. The applicant is proposing to construct two pedestrian truss bridges over existing stream. The proposed bridges are appropriate for the location, compatible with the landscape, and improve accessibility to the park. This is consistent with UDC Sec 35-642(b).
e. The San Antonio Arts Commission approved the public art installation October 2015.
f. Staff visited the site September 12, 2016.
g. ARCHAEOLOGY- The development project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

RECOMMENDATION:

Staff recommends approval based on findings a through g with the stipulation that the development project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

CASE MANAGER:

Lauren Sage



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Flex Viewer

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Printed:Sep 14, 2016

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YIELD
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Lackland Corridor Project

Background

- Project location corner of US HWY 90 and Loop 13 (SW Military Drive)
- Gateway into Joint Base San Antonio (JBSA)-Lackland
- JBSA–Lackland employs 52,000+ military and civilians and houses the Air Force's only basic military training center in the U.S.
- Instructs 35,000 men and women per year
- Attracts approximately 2,000 visitors each week and over 3,000 families for basic graduation ceremonies every year.

Monument at entrance

Site Enhancements

Consistent with the Lackland Corridor Streetscape Conceptual Master Plan (2014 RVK) approved through Council in August 2014, TCI is requesting final HDRC approval for the development of the most visible location along the corridor known as the gateway project. A five acre parcel at the intersection of U.S. Highway 90 and SW Military Drive accepts and expresses drainage from a larger watershed west and north of the site and expresses the water from a paved channel bottom to full concrete channel southeast of the site and northeast of JBSA Lackland proper. Anticipated enhancements include but are not limited to the following:

- Storm water improvements to existing channel – stream naturalization
- Storm water runoff vegetation including area plantings for establishment of the LID feature in its final configuration
- 161 Trees with bubbler irrigation system
- Area Parking (19 spaces)
- Picnic unit with shade canopy
- Port a Unit with its enclosure
- 75' Monument (Tribute) by local artist George Schroeder, lit at night with LED light fixtures
- Two bridges
- Sidewalks
- Overlook nodes with interpretative graphic panel and seating area
- Wayfinding Sign

A lasting Impression

The gateway projects takes an existing poor functioning concrete stormwater drainage channel and restores it back to its most natural state. The integration of native and site appropriate vegetation, LID strategies and BMP's (best management practice) enhance the ecosystem, and reduce the transportation of pollutants to the Leon Creek watershed. The proposed tree canopy consists of 161 native trees, carefully selected vegetation and also a

butterfly habitat. All of these features all provide the visual appeal and lasting impression of a well designed area. Along with these enhancements, a 75' monument envisioned in the Master Plan but enhanced by George Schroeder sits on a raised platform plaza. The monument consists of five forms. The arrangement creates a gathering space and an experience intended to be dynamic and interactive as it can be touched, and both walked within and around. Its aesthetic is that of an airplane. It replicates aircraft construction in riveting the aluminum cladding to the substructure. With the forms seemingly arising out of the ground, the monument captures light, sun and shadows.

The tallest element is an obelisk-type form reaching 75' high representing our incredible country. The narrowest edge of the obelisk representing our country and the community of San Antonio is aligned to our nation's capital paying homage to Washington, D.C. The three arched forms represent the arms of the military protecting our great Nation. Each arm displays one of the three Core Values of the United States Air Force. The fifth element serves as the direct reference to Lackland Air Force Base. The form representing a wing is intentionally placed at an angle to contrast with the other elements, contributing to the visual tension of the overall piece.

From dusk to dawn, the experience of the gateway is enhanced through the use of LED lighting. Six out of seven days of the week, white light will illuminate the sculpture. On Fridays to celebrate the weekly graduation of the over 500 new Airmen, United States Air Force blue will illuminate the interior space of the sculpture proclaiming the significance of this day to the City of San Antonio and to our Nation.

Access to the site includes a parking area with 19 parking spaces, site amenities such as a picnic area, with a portable restroom. The monument area is easily accessed via a 100' or a 90' foot bridge and sidewalks. Three overlook nodes offer a photo opportunity or respite from a long walk with the addition of a bench. A graphic panel offers the opportunity to learn about bioretention, the role of the military to San Antonio or about the monument. Site improvements complete the construction of the Low Impact Development (LID) systems, channel realignment and natural restoration that are part of the streetscape vision for the Lackland AFB Corridor.

MATERIALS SPECIFICATIONS

Cast-in-Place Concrete; standard mix
Limestone boulder slab retaining wall
Shade Canopy – Polygal transluscent structured polycarbonate panels (Selectogal [RFX] 5/8"; color – Blue) with aluminum glazing system, trim and fasteners.
Metal Fabrications – Steel / Painted
Paint Finishes – Tnemec Products; United States Air Force Official Colors (reference color samples) Brite Blue, Silver, and Cool Gray

ATTACHMENTS FOR PROJECT SCOPE

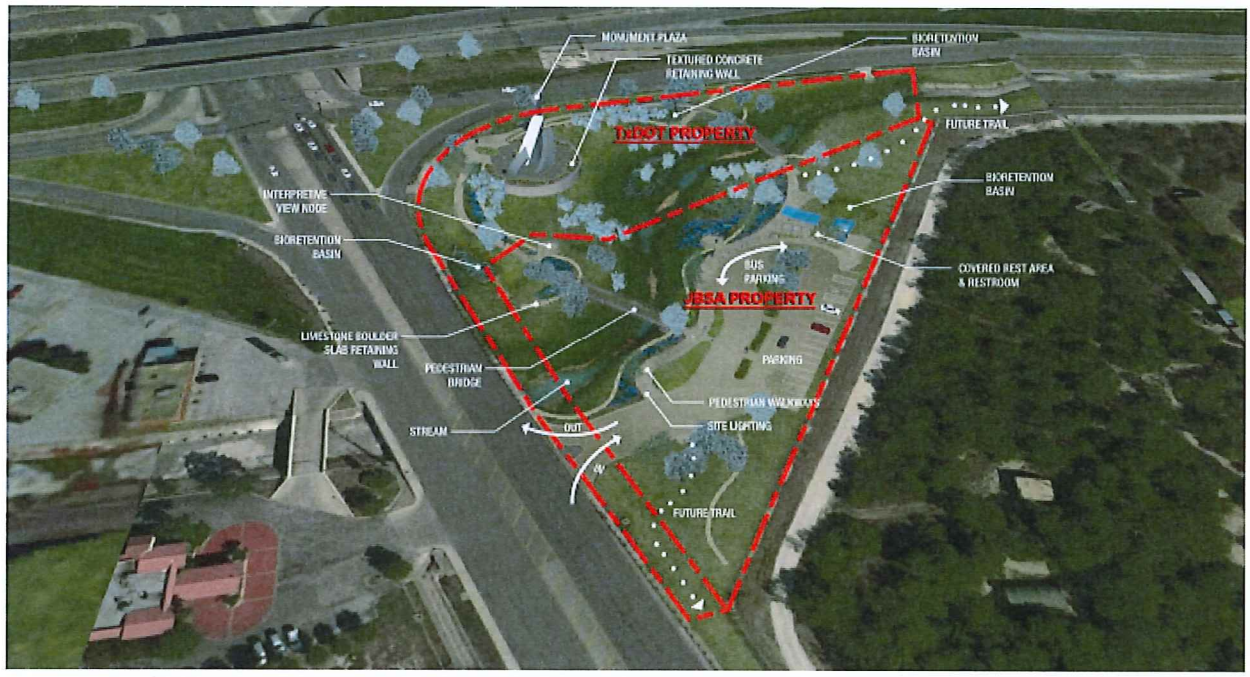
1) Project rendering
2) Project Rendering – Project Ownership
3) Construction Documents
   Cover – Index Sheet
   C1.0 – Existing Conditions and Demolition Plan
   C2.0 – Site Plan
   C5.0 – Grading and Drainage Plan
   C6.0 – Utility Plan
   C29.0 – Stream Naturalization Plan and Profile
   BR1.0 – Truss Bridge Drawings
   ES1.0 – Overall Electric Site Plan (refer to PASA lighting submittal package)
   L1.0 – Owner Hardscape Plan
   L1.1 – Hardscape Plan Enlargements
   L1.2 – Hardscape Plan Enlargements
   L1.3 – Hardscape Plan Enlargements
   L1.4 – Hardscape Plan Enlargements
   L1.5 – Hardscape Plan Enlargements
   L2.0 – Site Sections
   L2.1 – Site Sections
   L3.3 – Hardscape Details (Site Furniture)
   L3.4 – Hardscape Details (Site Furniture)
   L3.5 – Shade Structure Plans and Details
   L4.0 – Overall Planting Plan
   L4.1 – Seeding and Tree Planting Plans
   LC1.1 – Materials Schedule & Legend
4) Paint Samples
5) 2016-06-09_PASA light submittal

ATTACHMENT 01 –

Project Rendering

ATTACHMENT 02 –

Project Ownership Rendering



ATTACHMENT 03 –

Construction Documents

LACKLAND CORRIDOR GATEWAY

JULY 19, 2016

PROJECT NUMBER:

WBS 23-01455

FUNDING

$6.1 MILLION
FY 2015 STORM WATER
STREET MAINTENANCE PROGRAM SAVINGS
PROP. 2 PARKS DEVELOPMENT & EXPANSION VENUE
FY 2014 STORM WATER

CITY COUNCIL

MAYOR

Ivy. R. Taylor

COUNCIL

ROBERT TREVINO ..... DISTRICT 1
ALAN WARRICK II ..... DISTRICT 2
REBECCA J VIAGRAN ..... DISTRICT 3
REY SALDANA. ..... DISTRICT 4
SHIRLEY GONZALES ..... DISTRICT 5
RAY LOPEZ ..... DISTRICT 6
CRIS MEDINA ..... DISTRICT 7
RON NIRENBERG ..... DISTRICT 8
JOE KRIER ..... DISTRICT 9
MIKE GALLAGHER ..... DISTRICT 10

CITY MANAGER

SHERYL SCULLEY

DIRECTOR OF PARKS & RECREATION

XAVIER URRUTIA

DIRECTOR OF TRANSPORATION & CAPITAL IMPROVEMENTS MANAGEMENT SERVICES

MIKE FRISBIE, PE

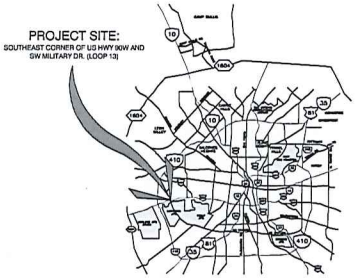
PROJECT MANAGER

ALMA NUNEZ
TRANSPORATION & CAPITAL IMPROVEMENTS
MANAGEMENT SERVICES DEPARTMENT
Municipal Plaza Building
114 W. Commerce, 4th floor
PHONE: 210-207-2613
FAX: 210-207-7196

SPECIAL INSPECTIONS REQUIRED

- ☐ STEEL CONSTRUCTION
- ☐ CONCRETE CONSTRUCTION
- ☐ SOILS
- ☐ CAST-IN-PLACE DEEP FOUNDATIONS
- ☐ FABRICATED ITEMS

"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."



VICINITY MAP

CONSULTANTS

CIVIL ENGINEER
CAMACHO-HERNANDEZ & ASSOCIATES, LLC
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745 E. MULBERRY AVE, STE 601 SAN ANTONIO, TX 78212
PHONE: (210) 733-3535 FAX: (210) 733-3549

GEOTECHNICAL INVESTIGATION
ARIAS GEOPROFESSIONALS
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PHONE: (210) 308-5884 FAX: (210) 308-5886

LOW IMPACT DEVELOPMENT CONSULTATION
TETRA TECH
700 N. ST MARYS SAN ANTONIO, TX 78205
PHONE: (210) 226-2058

STRUCTURAL ENGINEER
LEHMANN ENGINEERING, INC.
1006 BEKET SAN ANTONIO, TX 78213
PHONE: (210) 348-8889

MEP ENGINEER
ALDERSON & ASSOCIATES, INC.
7700 TORINO, SUITE 101, SAN ANTONIO, TX 78229
PHONE: (210) 614-1110

MONUMENT FABRICATION TECHNICAL TEAM
MP STUDIO
201 GROVETON STREET SAN ANTONIO, TEXAS 78210
PHONE: 210-314-5582

MONUMENT ARTIST / SCULPTOR
SCHROEDER ART STUDIOS
257 W. TURBO, SAN ANTONIO, TX 78216
PHONE: (210) 601-2508

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CAMACHO-HERNANDEZ & ASSOCIATES, LLC
Engineering - Planning - Transportation - Related Services 415
EMBASSY OAKS - SUITE 205 San Antonio, TX 78216
OFFICE: (210) 341-6200 FAX: (210) 341-6300
FIRM NUMBER: F-8478

RVK
architecture interior design landscape architecture
san antonio, texas

CITY OF SAN ANTONIO, TEXAS

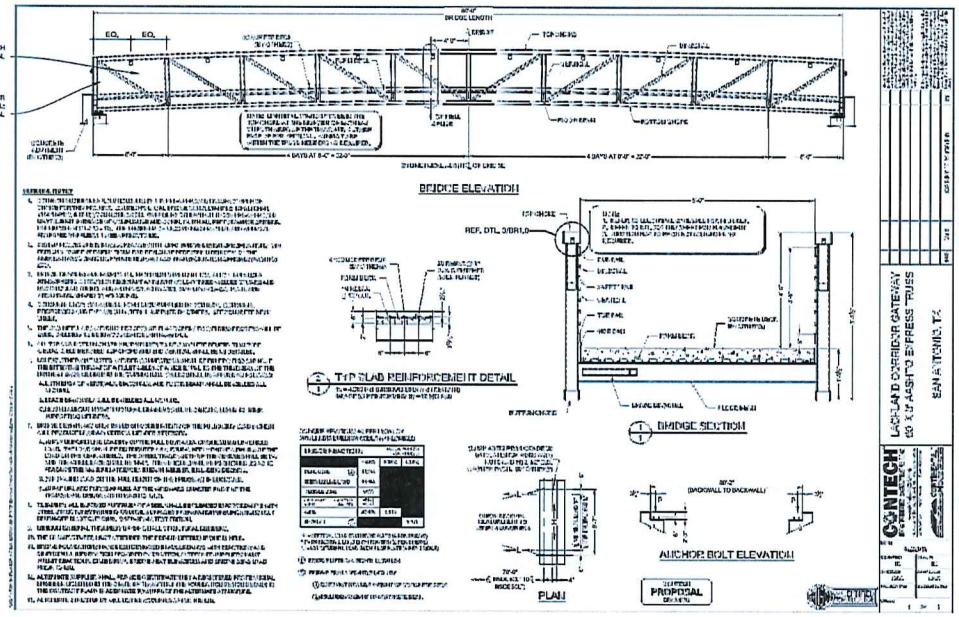
TRANSPORTATION & CAPITAL IMPROVEMENTS

VERTICAL DIVISION

114 W. COMMMERCE SAN ANTONIO, TX 78238 PHONE: (210) 207-2879 FAX: (210) 207-2720

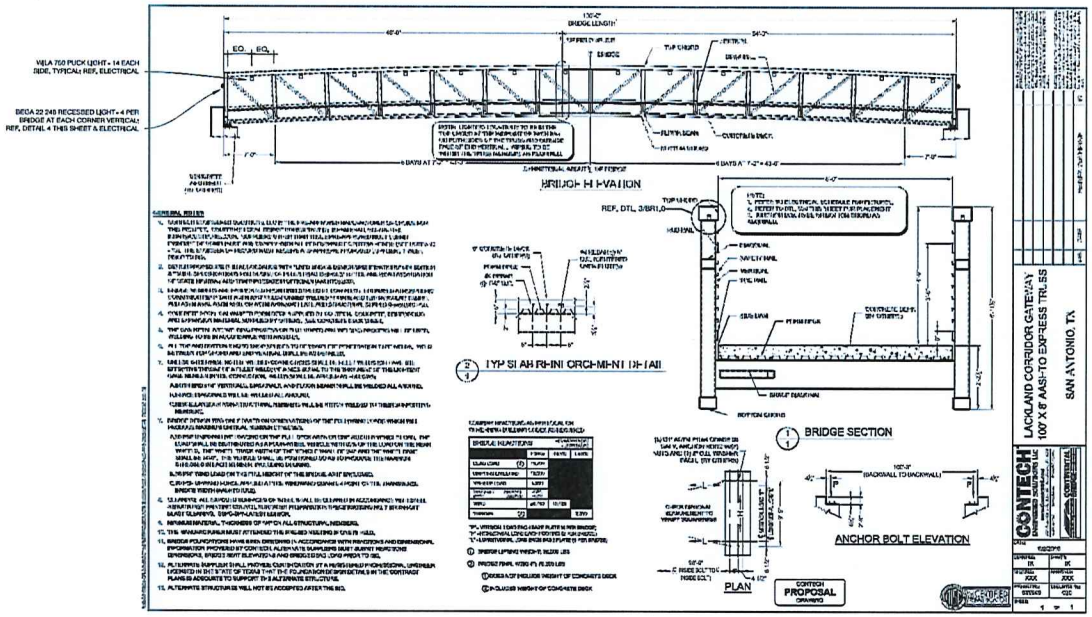
SET NO. _____

July 19, 2016 - Construction Documents



1 BR1.0 **TRUSS BRIDGE 1 DRAWINGS**

NTS



2 BR1.0 **TRUSS BRIDGE 2 DRAWINGS**

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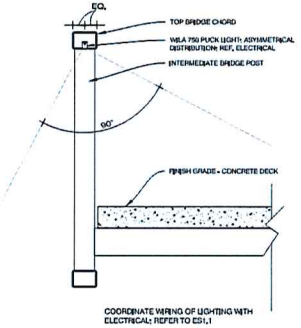
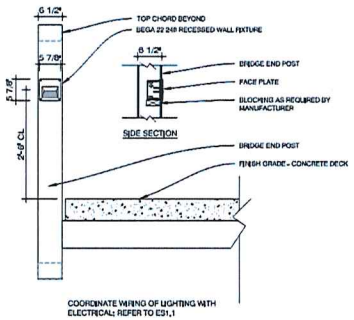


3 BR1.0 **BRIDGE RAIL LIGHT PLACEMENT**

3/4" = 1'-0"



4 BR1.0 **BRIDGE END POST LIGHT PLACEMENT**

3/4" = 1'-0"

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FIRM NUMBER: F-8478

RVK Landscape Architects

TCI

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Date:	Revisions/Submissions

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS
VERTICAL DIVISION
MUNICIPAL PLAZA BUILDING 114 W. COMMERCE
P.O. BOX 839966 SAN ANTONIO, TX 78283-3966
TEL (210) 207-2879 FAX (210) 207-2197

LACKLAND CORRIDOR GATEWAY

SW MILITARY & US HWY 90

SAN ANTONIO, TEXAS

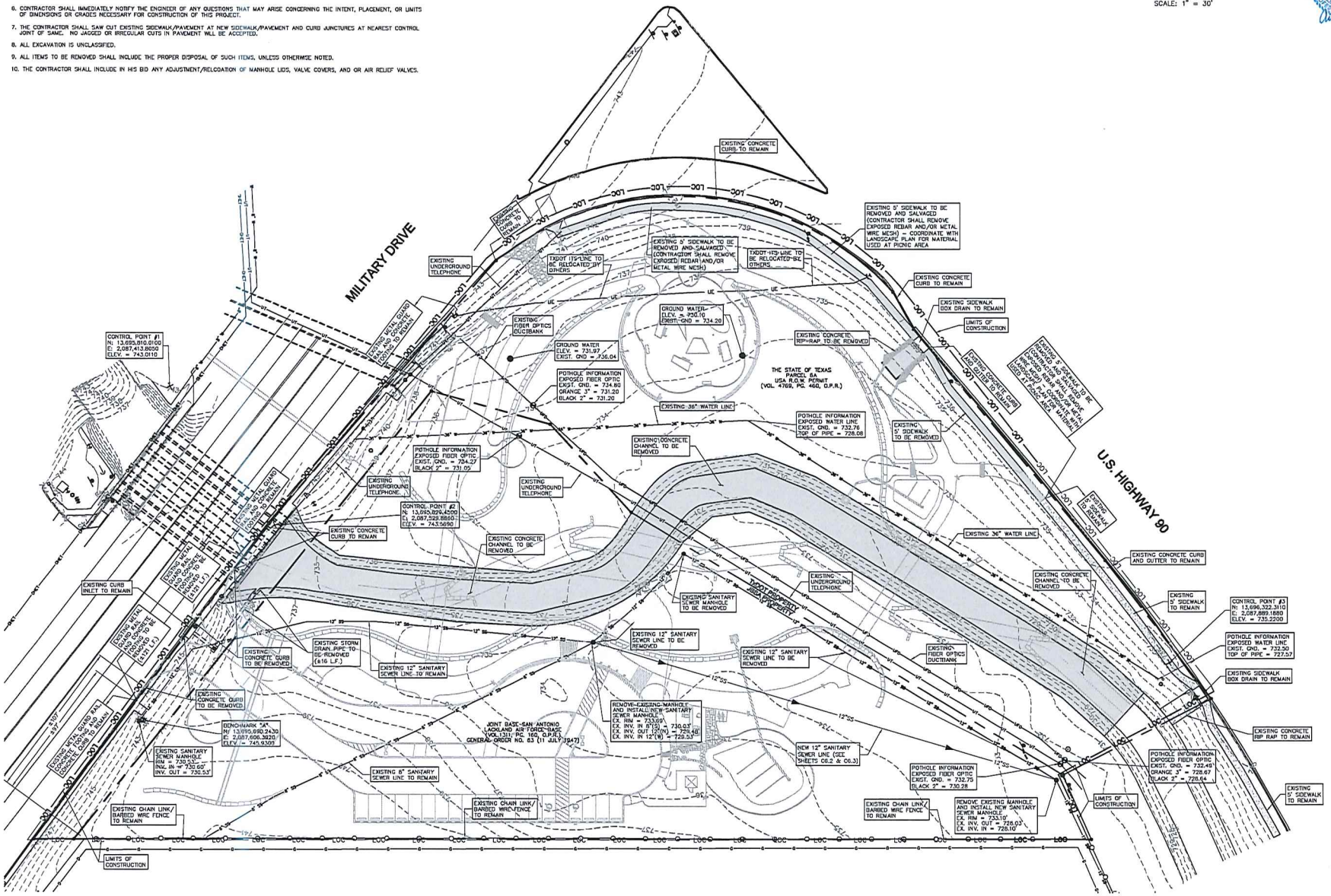
TRUSS BRIDGE DRAWINGS

BR 1.0

Designed By:	
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	BR1.0 Bridge.dwg

GENERAL NOTES

1. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS (BOTH VERTICALLY AND HORIZONTALLY) AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO THE CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SAME DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
2. ALL EXISTING ITEMS NOT SPECIFICALLY NOTED TO BE REMOVED SHALL REMAIN. CONTRACTOR IS RESPONSIBLE FOR REPLACING EXISTING ITEMS REMOVED DURING DEMOLITION THAT WERE TO REMAIN.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL UTILITY COMPANIES REGARDING REMOVAL OF EXISTING SERVICES, VERIFYING UTILITIES ARE SHUT OFF OR DISCONNECTED, AND ALL POSSIBLE SAFETY PRECAUTIONS HAVE BEEN ENACTED TO ENSURE THE SAFEST ENVIRONMENT FOR ALL PERSONNEL.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS/APPROVALS BEFORE BEGINNING CONSTRUCTION.
5. DUE TO FEDERAL REGULATION TITLE 49, PART 192.181, ACCESS TO GAS VALVES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
6. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
7. THE CONTRACTOR SHALL SAW CUT EXISTING SIDEWALK/PAVEMENT AT NEW SIDEWALK/PAVEMENT AND CURB JUNCTURES AT NEAREST CONTROL JOINT OF SAME. NO JAGGED OR IRREGULAR CUTS IN PAVEMENT WILL BE ACCEPTED.
8. ALL EXCAVATION IS UNCLASSIFIED.
9. ALL ITEMS TO BE REMOVED SHALL INCLUDE THE PROPER DISPOSAL OF SUCH ITEMS, UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL INCLUDE IN HIS BID ANY ADJUSTMENT/RELOCATION OF MANHOLE LIDS, VALVE COVERS, AND OR AIR RELIEF VALVES.



SCALE: 1" = 30'

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FIRM NUMBER: F-8476

7/19/16

STATE OF TEXAS ARTURO CAMACHO JR. 91711 REGISTERED PROFESSIONAL ENGINEER

Date:	Revisions/Submissions

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS
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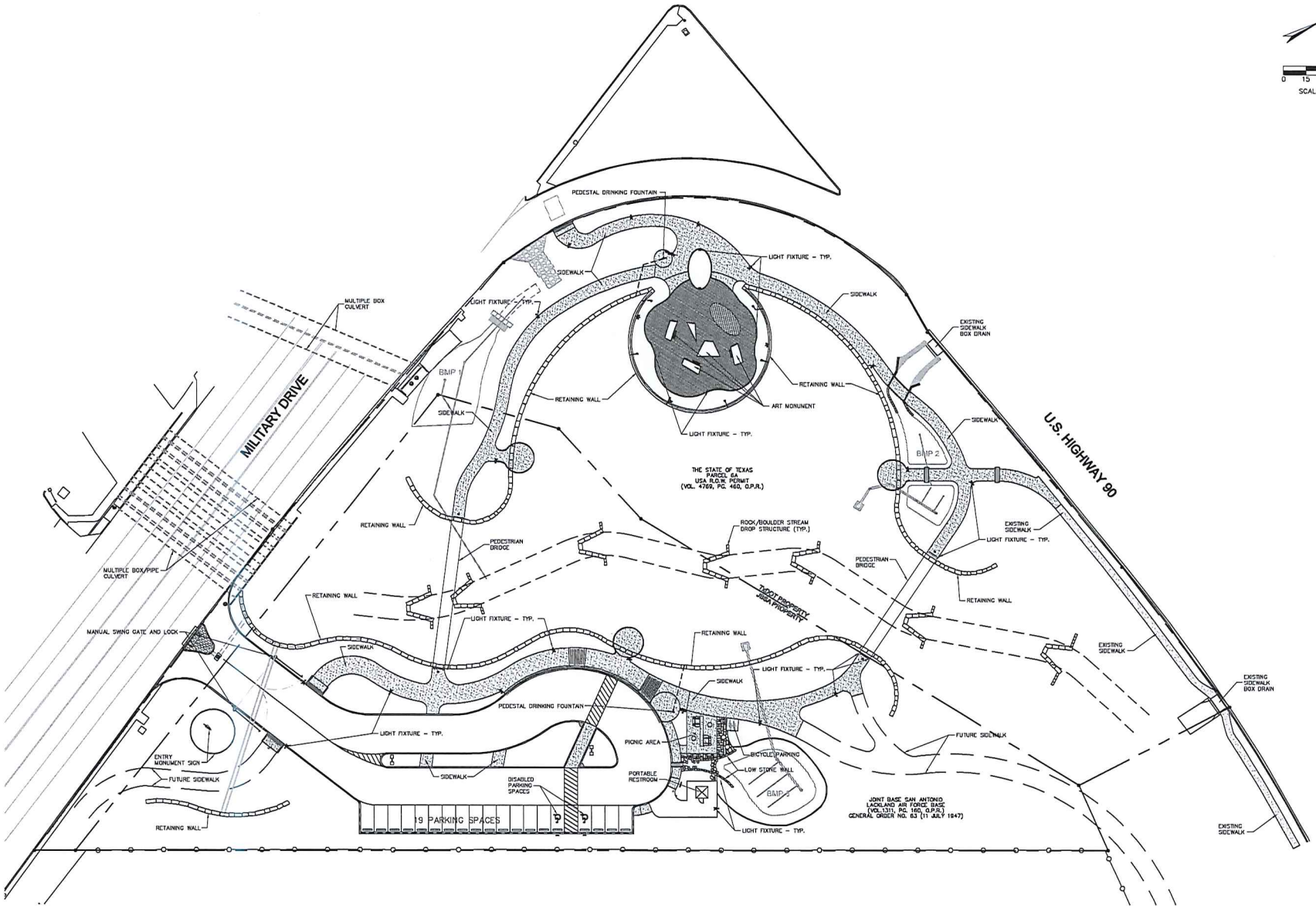
LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS
EXISTING CONDITIONS AND DEMOLITION PLAN

C / 1.0

Designed By:	A.C.
Drawn By:	P.N.
Date:	07/19/16
Project No.:	WBS 23-01455
Filename:	EXISTING CONDITIONS AND DEMOLITION PLAN



7/19/16

STATE OF TEXAS
ARTURO CAMACHO JR.
91711
LICENSED
PROFESSIONAL ENGINEER

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0 15 30 45 60
SCALE: 1" = 30'

Date:	Revisions/Submissions

CITY OF SAN ANTONIO
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LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS
SITE PLAN

C
2.0

Designed By:	A.C.
Drawn By:	P.N.
Date:	07/19/16
Project No.:	WBS 23-01455
Filename:	SITE PLAN

GRADING AND DRAINAGE PLAN GENERAL NOTES

1. ALL GRADES AND CONTOURS SHOWN ARE FINAL, TOP OF FINISHED SURFACE ELEVATIONS.

2. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW PONDING OF WATER.

3. NO ABRUPT CHANGE OF GRADE SHALL OCCUR.

4. ALL DISTURBED AREAS SHALL BE REVEGETATED, BY THE CONTRACTOR, IN ACCORDANCE WITH PROJECT SPECIFICATIONS, TPDES SWDMLET AND LANDSCAPING PLANS.

5. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL UTILITIES AND DRAINAGE STRUCTURES (BOTH VERTICALLY AND HORIZONTALLY) WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.

6. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT WHERE NOT SPECIFICALLY COVERED IN THE PROJECT SPECIFICATIONS SHALL CONFORM TO ALL APPLICABLE STANDARD SPECIFICATIONS, CITY OF SAN ANTONIO SPECIFICATIONS FOR CONSTRUCTION, AND TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST EDITION).

7. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ORIGINAL, OR BETTER, CONDITION TO ANY DAMAGES DONE TO EXISTING BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, SIDEWALKS, OR DRIVEWAYS (NO SEPARATE PAY ITEM).

8. DUE TO FEDERAL REGULATION TITLE 49, PART 192.181, ACCESS TO GAS VALVES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL NECESSARY UTILITY COMPANIES FOR PROVIDING TEMPORARY UTILITY SERVICES DURING CONSTRUCTION.

10. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.

11. THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT AT NEW PAVEMENT AND CURB JUNCTURES. NO JAGGED OR IRREGULAR CUTS IN PAVEMENT WILL BE ACCEPTED.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS, AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.

13. ALL EXCAVATION IS UNCLASSIFIED.

14. ALL CURBS ARE (0.5') 6" UNLESS OTHERWISE SPECIFIED.

15. SEE CIVIL DETAIL SHEETS FOR APPLICABLE DETAILS.

16. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL, MEP, LANDSCAPE/IRRIGATION, AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.

GENERAL SPECIFICATIONS FOR SITE PREPARATION

GENERAL DESCRIPTION
THE ITEM SHALL CONSIST OF ALL CLEARING AND PREPARATION OF LAND TO BE FILLED, FILLING OF THE LAND, SPREADING, COMPACTION TESTING AND INSPECTION OF THE FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING OF THE CUT AND FILL AREAS TO CONFORM WITH THE LINES, GRADES AND SLOPES AS SHOWN ON THE APPROVED PLANS.

SCARIFYING THE AREA TO BE FILLED
ALL ORGANIC MATTER SHALL BE REMOVED FROM THE SURFACE UPON WHICH THE FILL IS TO BE PLACED, AND SURFACE SHALL THEN BE DISKED OR SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES (6"). ALL SURFACE RUTS OR OTHER UNEVEN FEATURES WILL BE LEVELED PRIOR TO FIELD DENSITY TESTING.

COMPACTING THE AREA TO BE FILLED
FOLLOWING THE CLEARING AND DISKING OR SCARIFYING OF THE FILL AREA, IT SHALL BE BLADED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS. THE AREA SHALL BE BROUGHT TO THE ADEQUATE MOISTURE CONTENT AND COMPACTED (TYPICALLY) TO NOT LESS THAN NINETY PERCENT (90%) OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CURRENT ASTM D 1557 COMPACTION PROCEDURE, OR 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CURRENT TXD-TEX-113-E COMPACTION PROCEDURE. MOISTURE CONTENT TO BE WITHIN A TOLERANCE OF ±2% OF OPTIMUM.

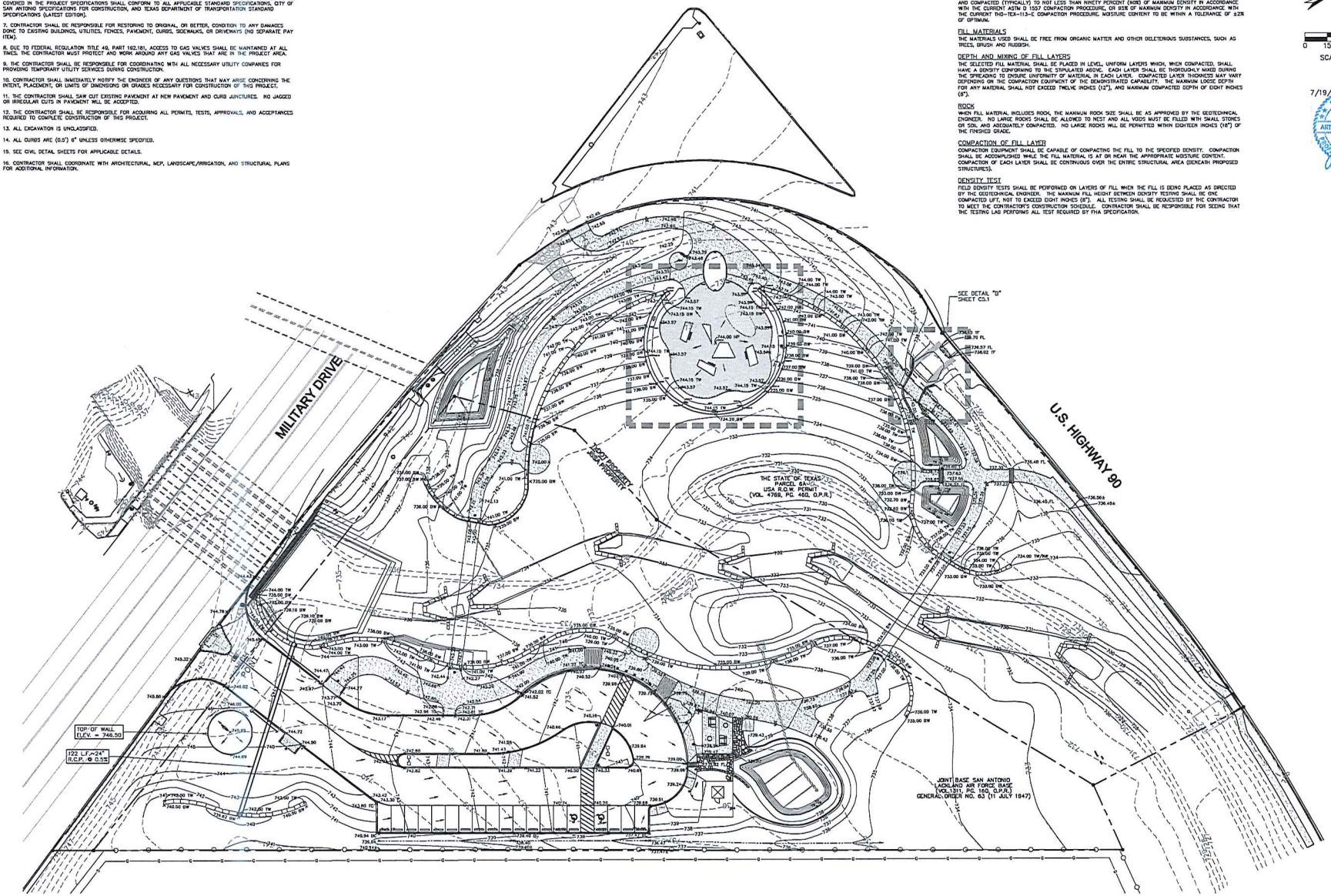
FILL MATERIALS
THE MATERIALS USED SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES, SUCH AS TREES, BRUSH AND RUBBISH.

DEPTH AND MIXING OF FILL LAYERS
THE SELECTED FILL MATERIAL SHALL BE PLACED IN LEVEL, UNIFORM LAYERS WHICH, WHEN COMPACTED, SHALL HAVE A DENSITY CONFORMING TO THE STIPULATED ABOVE. EACH LAYER SHALL BE THOROUGHLY MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER. COMPACTED LAYER THICKNESS MAY VARY DEPENDING ON THE COMPACTION EQUIPMENT OF THE DEMONSTRATED CAPABILITY. THE MAXIMUM LOOSE DEPTH FOR ANY MATERIAL SHALL NOT EXCEED TWELVE INCHES (12"), AND MAXIMUM COMPACTED DEPTH OF EIGHT INCHES (8").

ROCK
WHEN FILL MATERIAL INCLUDES ROCK, THE MAXIMUM ROCK SIZE SHALL BE AS APPROVED BY THE GEOTECHNICAL ENGINEER. NO LARGE ROCKS SHALL BE ALLOWED TO NEST AND ALL VOIDS MUST BE FILLED WITH SMALL STONES OR SOIL, AND ADEQUATELY COMPACTED. NO LARGE ROCKS WILL BE PERMITTED WITHIN EIGHTEEN INCHES (18") OF THE FINISHED GRADE.

COMPACTION OF FILL LAYER
COMPACTION EQUIPMENT SHALL BE CAPABLE OF COMPACTING THE FILL TO THE SPECIFIED DENSITY. COMPACTION SHALL BE ACCOMPLISHED WHILE THE FILL MATERIAL IS AT OR NEAR THE APPROPRIATE MOISTURE CONTENT. COMPACTION OF EACH LAYER SHALL BE CONTINUOUS OVER THE ENTIRE STRUCTURAL AREA (BENEATH PROPOSED STRUCTURES).

DENSITY TEST
FIELD DENSITY TESTS SHALL BE PERFORMED ON LAYERS OF FILL WHEN THE FILL IS BEING PLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE MAXIMUM FILL HEIGHT BETWEEN DENSITY TESTING SHALL BE ONE COMPACTED (FT), NOT TO EXCEED EIGHT INCHES (8"). ALL TESTING SHALL BE REQUESTED BY THE CONTRACTOR TO MEET THE CONTRACTOR'S CONSTRUCTION SCHEDULE. CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE TESTING LAB PERFORMS ALL TEST REQUIRED BY FHA SPECIFICATION.



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FIRM NUMBER: F-8478

0 15 30 45 60
SCALE: 1" = 30'

7/19/16

STATE OF TEXAS
ARTURO CAMACHO JR.
91711
LICENSED
PROFESSIONAL ENGINEER

Date:	Revisions/Submissions

CITY OF SAN ANTONIO
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LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS
GRADING AND DRAINAGE PLAN

C / 5.0

Designed By:	A.C.
Drawn By:	P.N.
Date:	07/19/16
Project No.:	WBS 23-01455
Filename:	GRADING AND DRAINAGE PLAN

CALL BEFORE YOU DIG!

TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST – STOP AND CALL

TEXAS ONE CALL SYSTEM
1-800-245-4545

AT&T LOCATE GROUP
AT 1-800-828-5127

THE LONE STAR NOTIFICATION COMPANY
AT 1-800-669-8344

TEXAS EXCAVATION SAFETY SYSTEM
1-800-344-8377

NOTE: SEE OTHER PLANS FOR CONDUIT (ELECTRICAL & IRRIGATION) AND PARKING LOT LIGHT LOCATIONS.

SEE SHEET C3.1, COORDINATE CONTROL PLAN, FOR BENCHMARK AND CONTROL POINT INFORMATION. SEE SHEET C1.0, EXISTING CONDITIONS AND DEMOLITION PLAN, FOR FIBER OPTIC AND WATER LINE POTHOLE INFORMATION.

KEYED NOTES

(4) 4" CONDUITS – SCH 40 PVC (2 FOR IRRIGATION, 2 FOR ELECTRICAL)

1. MAINTAIN MINIMUM 36" COVER BELOW FINISHED GRADE (SEE DETAIL SHEET C7.1)

2. CONDUITS SHALL BE PLACED FROM TOP OF WALL SIDE AND UNDER WALL FOOTINGS TO BOTTOM OF WALL SIDE

C.P.S. LOCATOR

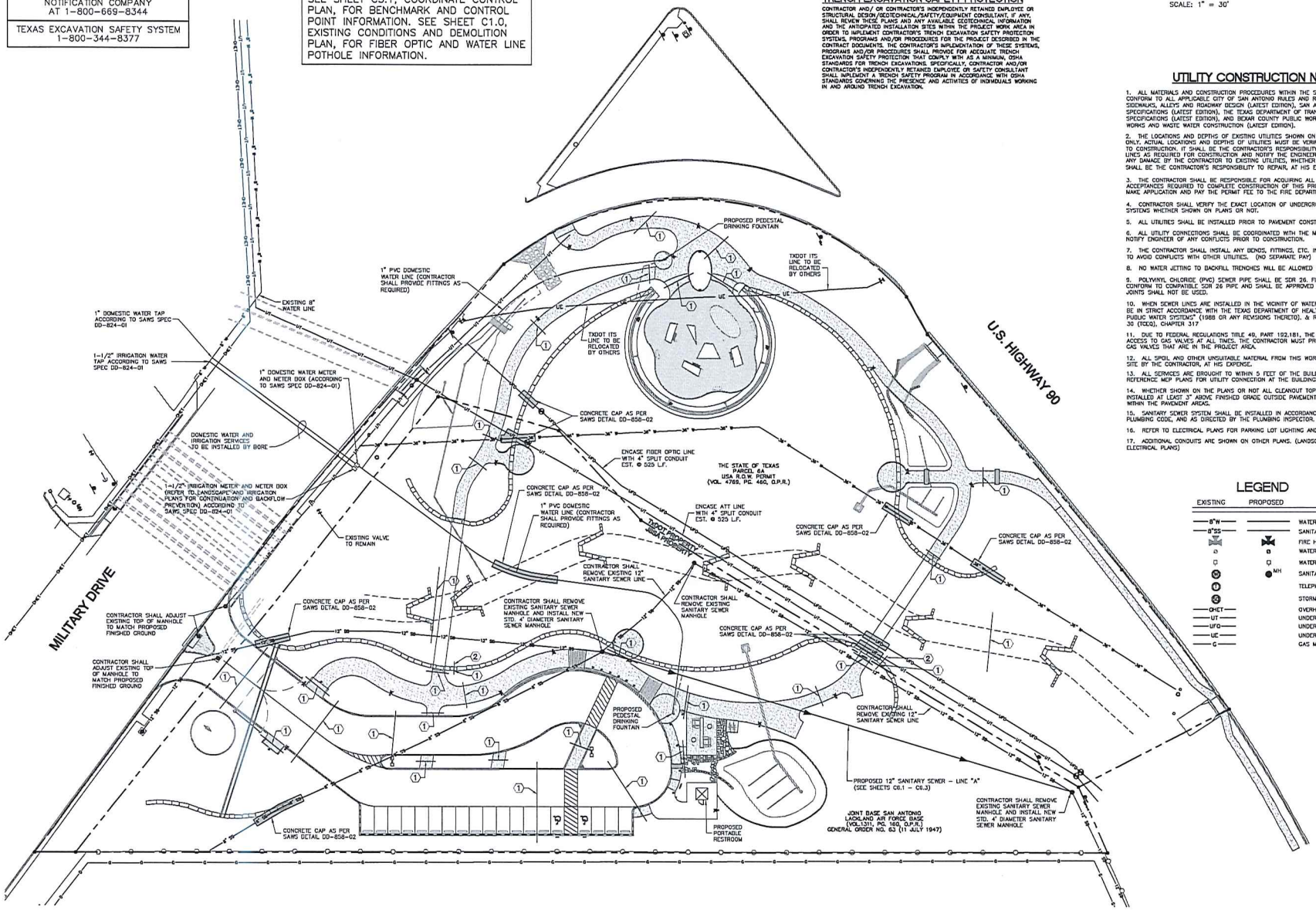
CALL CPS LOCATOR AT 353-3500, 48 HOURS BEFORE BEGINNING ANY EXCAVATION. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

TELEPHONE LOCATOR

NOTE: THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-639-5127. CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS CONCERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



CAMACHO-HERNANDEZ & ASSOCIATES, LLC
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FIRM NUMBER: F-6476

7/19/16

STATE OF TEXAS ARTURO CAMACHO JR. 91711 REGISTERED PROFESSIONAL ENGINEER

0 15 30 45 60
SCALE: 1" = 30'

UTILITY CONSTRUCTION NOTES:

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL CONFORM TO ALL APPLICABLE CITY OF SAN ANTONIO RULES AND REQUIREMENTS FOR STREETS, SIDEWALKS, ALLEYS AND ROADWAY DESIGN (LATEST EDITION), SAN ANTONIO WATER SYSTEM SPECIFICATIONS (LATEST EDITION), THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST EDITION), AND BEXAR COUNTY PUBLIC WORKS SPECIFICATIONS FOR WATER WORKS AND WASTE WATER CONSTRUCTION (LATEST EDITION).

2. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS IMMEDIATELY. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL MAKE APPLICATION AND PAY THE PERMIT FEE TO THE FIRE DEPARTMENT FOR THE FIRE LINE.

4. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE SYSTEMS WHETHER SHOWN ON PLANS OR NOT.

5. ALL UTILITIES SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.

6. ALL UTILITY CONNECTIONS SHALL BE COORDINATED WITH THE MECHANICAL AND ELECTRICAL PLANS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

7. THE CONTRACTOR SHALL INSTALL ANY BENDS, FITTINGS, ETC. IN THE WATER LINE AS REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES. (NO SEPARATE PAY)

8. NO WATER JETTING TO BACKFILL TRENCHES WILL BE ALLOWED ON THIS PROJECT.

9. POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL BE SDR 26. FITTINGS AND JOINTS SHALL CONFORM TO COMPATIBLE SDR 26 PIPE AND SHALL BE APPROVED BY TCEQ. SOLVENT CEMENT JOINTS SHALL NOT BE USED.

10. WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TEXAS DEPARTMENT OF HEALTH "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" (1988 OR ANY REVISIONS THERETO). & REQUIREMENTS OF THE TAC, TITLE 30 (TCEQ), CHAPTER 317

11. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, THE GAS COMPANY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

12. ALL SPOIL AND OTHER UNSUITABLE MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.

13. ALL SERVICES ARE BROUGHT TO WITHIN 5 FEET OF THE BUILDING UNLESS OTHERWISE NOTED. REFERENCE MEP PLANS FOR UTILITY CONNECTION AT THE BUILDING.

14. WHETHER SHOWN ON THE PLANS OR NOT ALL CLEANOUT TOPS AND MANHOLES SHALL BE INSTALLED AT LEAST 3" ABOVE FINISHED GRADE OUTSIDE PAVEMENT AND FLUSH WITH FINISHED GRADE WITHIN THE PAVEMENT AREAS.

15. SANITARY SEWER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF SAN ANTONIO PLUMBING CODE, AND AS DIRECTED BY THE PLUMBING INSPECTOR.

16. REFER TO ELECTRICAL PLANS FOR PARKING LOT LIGHTING AND SIGN LIGHTING.

17. ADDITIONAL CONDUITS ARE SHOWN ON OTHER PLANS. (LANDSCAPE, IRRIGATION, AND ELECTRICAL PLANS)

LEGEND

EXISTING	PROPOSED	
8"W		WATER MAIN
8"SS		SANITARY SEWER
		FIRE HYDRANT
		WATER VALVE
		WATER METER
	NH	SANITARY SEWER MANHOLE
		TELEPHONE MANHOLE
		STORM DRAIN MANHOLE
OHET		OVERHEAD ELECTRIC AND TELEPHONE
UT		UNDERGROUND TELEPHONE
UFO		UNDERGROUND FIBER OPTIC
UE		UNDERGROUND ELECTRIC
G		GAS MAIN

Date:	Revision/Submissions

CITY OF SAN ANTONIO
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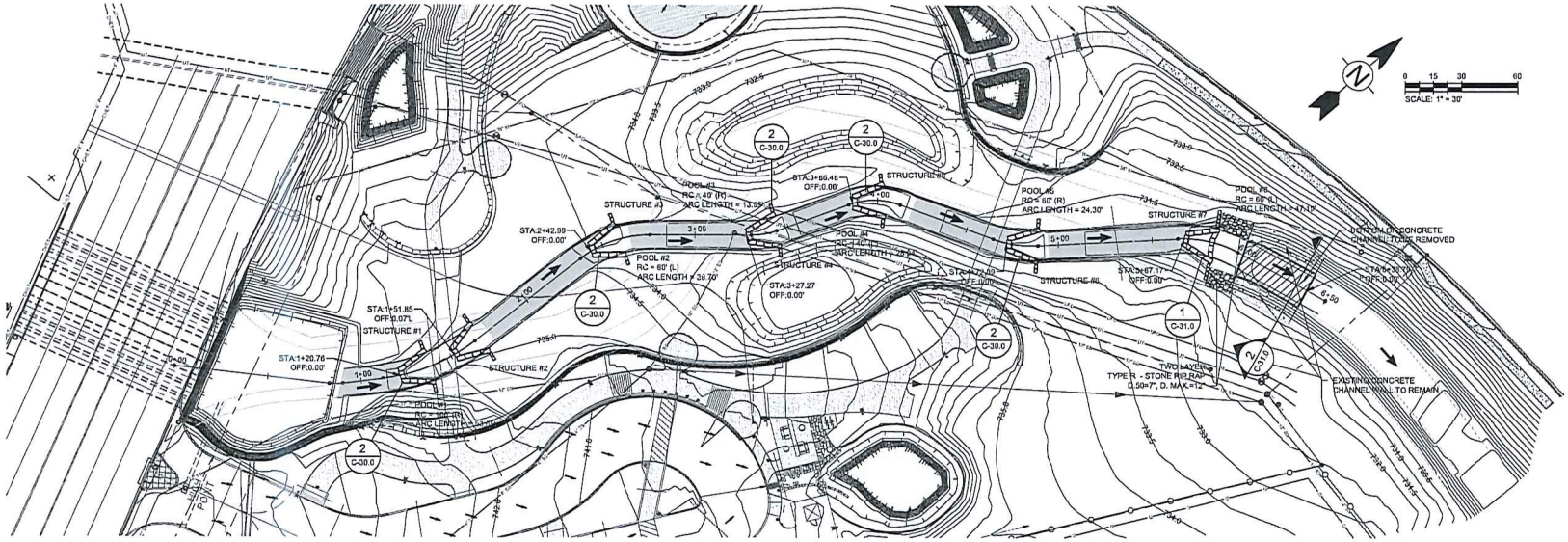
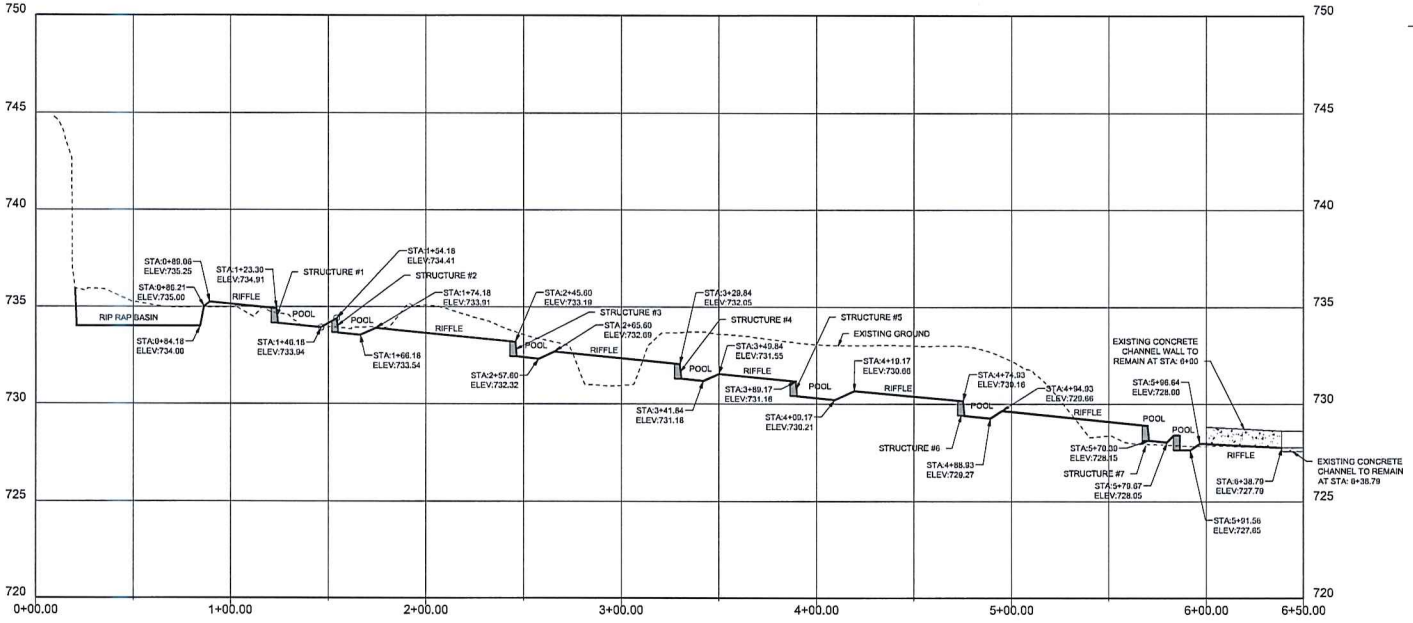
LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS
UTILITY PLAN

C / 6.0

Designed By:	A.C.
Drawn By:	P.N.
Date:	07/19/16
Project No.:	WBS 23-01455
Filename:	UTILITY PLAN





PROFILE STREAM CENTERLINE - VERT SCALE 1" = 3'

LEGEND

—740—	PROPOSED CONTOUR
	RIFFLE AREA
	FLOW
	EASEMENT BOUNDARY

CAMACHO-HERNANDEZ & ASSOCIATES, LLC
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STATE OF TEXAS
TROY M. DORMAN
92722
LICENSED
PROFESSIONAL ENGINEER
7-19-16

TBPE Firm No. F-3904
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Date:	Revisions/Submissions

CITY OF SAN ANTONIO
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LACKLAND CORRIDOR GATEWAY

SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

STREAM NATURALIZATION PLAN & PROFILE

C / 29.0

Designed By:	TD/LOB
Drawn By:	RM
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	

ELECTRICAL SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT. REFER TO SPECIFICATIONS MANUAL FOR ADDITIONAL REQUIREMENTS.

POWER SYMBOLS

- MOTOR, HP AS INDICATED
- CONTROLLER TO BE FURNISHED UNDER DIVISION 15
- DISCONNECT SWITCH
- MAGNETIC MOTOR STARTER
- COMBINATION MOTOR STARTER
- CONTACTOR
- JUNCTION BOX, CEILING MOUNTED
- JUNCTION BOX, WALL MOUNTED
- RELAY
- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE GFI=GROUND FAULT CIRCUIT INTERRUPTER WP=WEATHERPROOF IG=ISOLATED GROUND
- DOUBLE DUPLEX (QUADRUPLEX) RECEPTACLE
- FLOOR OUTLET DUPLEX RECEPTACLE
- FLOOR OUTLET SIMPLEX RECEPTACLE
- FLOOR OUTLET QUADRUPLEX RECEPTACLE
- DROP CORD RECEPTACLE
- SPECIAL PURPOSE OUTLET AS DESIGNATED
- SINGLE FACE PEDESTAL
- DOUBLE FACE PEDESTAL RECEPTACLE
- EQUIPMENT CONNECTION
- CONNECT TO EXISTING

LIGHTING CONTROL SYMBOLS

- S_1 SINGLE POLE SWITCH, SUBSCRIPT INDICATES ASSOCIATED CIRCUITRY
- S_D DIMMABLE SWITCH
- S_2 DOUBLE POLE SWITCH
- S_3 THREE-WAY SWITCH
- S_4 FOUR-WAY SWITCH
- S_K KEY OPERATED SWITCH
- S_P SWITCH WITH PILOT LIGHT IN HANDLE (ON=LIGHTED UNLESS OTHERWISE NOTED)
- S_{WP} WEATHERPROOF SWITCH
- S_M S_{MT} MANUAL MOTOR STARTER (T=THERMAL OVERLOAD, SIZED FOR MOTOR)
- DS DOOR SWITCH
- S_T TIME SWITCH
- S_{DC} SPEED CONTROL
- S_{PB} PUSH BUTTON
- S_O SWITCH, OCCUPANCY SENSOR, WALL MOUNT
- S_{LV} MOMENTARY CONTACT OVERRIDE SWITCH

LIGHTING CONTROL SYMBOLS (CONT.)

- OCCUPANCY SENSOR, CEILING MOUNTED, DUAL TECHNOLOGY. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED POWER PACKS
- OCCUPANCY SENSOR WALL MOUNTED, DUAL TECHNOLOGY. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED POWER PACKS

LIGHTING SYMBOLS

- INCANDESCENT OR HID FIXTURE, CEILING MOUNTED
- INCANDESCENT OR HID FIXTURE, WALL MOUNTED
- FLUORESCENT TROFFER, RECESSED OR SURFACE MOUNTED
- EXIT SIGN - SINGLE FACE
- EXIT SIGN - SINGLE FACE WITH ONE-WAY DIRECTIONAL ARROW
- EXIT SIGN - SINGLE FACE WITH TWO-WAY DIRECTIONAL ARROWS
- EXIT SIGN - DOUBLE FACE
- EXIT SIGN - DOUBLE FACE WITH 2 ONE-WAY DIRECTIONAL ARROWS
- EMERGENCY LIGHT, BATTERY TYPE WITH CHARGER
- EXTERIOR FLOOD LIGHT
- POLE MOUNTED LUMINARE (SQUARE)
- POLE MOUNTED LUMINARE (ROUND)
- TRACK LIGHT WITH HEADS AS INDICATED
- LC LIGHTING CONTACTOR
- PP POWER PACK

ELECTRICAL RACEWAYS

- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT UNDER FLOOR OR UNDERGROUND
- SWITCH LEG
- SURFACE MOUNTED RACEWAY WITH ALL REQUIRED FITTINGS AND HARDWARE. PROVIDE RECEPTACLES AS INDICATED.
- SURFACE MOUNTED RACEWAY RISER SECTION WITH ALL REQUIRED FITTINGS AND HARDWARE
- BUS DUCT WITH TAKE OFF DEVICE
- UGE — UNDERGROUND ELECTRICAL (APPROXIMATE LOCATION, CONTRACTOR TO VERIFY EXACT LOCATION IN FIELD)
- UGT — UNDERGROUND TELEPHONE (APPROXIMATE LOCATION, CONTRACTOR TO VERIFY EXACT LOCATION IN FIELD)
- PA-2,4,6 BRANCH CIRCUIT HOMERUN SUBSCRIPT "PA" INDICATES PANEL AND 2,4,6 INDICATES BREAKER POSITION

CABLE TRAY AND RELATED ITEMS

- CABLE TRAY - 90 DEGREE FITTING
- CABLE TRAY - TEE FITTING
- CABLE TRAY - X FITTING
- CABLE TRAY - 90 DEGREE VERTICAL BEND: IN & OUT FOR ELEVATION CHANGE
- CABLE TRAY - 90 DEGREE VERTICAL BEND: IN OR OUT FOR TRAY UP OR DOWN
- CABLE TRAY

FIRE ALARM SYSTEM SYMBOLS

- FACP FIRE ALARM CONTROL PANEL
- ANN REMOTE ANNUNCIATOR PANEL
- FAEX FIRE ALARM EXPANSION PANEL
- F MANUAL PULL STATION (G=VANDAL PROOF GUARD)
- AV AUDIOVISUAL ANNUNCIATOR (G=VANDAL PROOF GUARD) ☐ = WALL MOUNT ○ = CEILING MOUNT
- V VISUAL ANNUNCIATOR (G=VANDAL PROOF GUARD) ☐ = WALL MOUNT ○ = CEILING MOUNT
- A AUDIBLE ANNUNCIATOR (G=VANDAL PROOF GUARD) ☐ = WALL MOUNT ○ = CEILING MOUNT
- SD SMOKE DETECTOR (G=VANDAL PROOF GUARD)
- SD SMOKE DETECTOR, DUCT MOUNTED
- HD HEAT DETECTOR (G=VANDAL PROOF GUARD)
- SMOKE FIRE DAMPER
- TS TEST SWITCH
- FS FLOW SWITCH
- TS TAMPER SWITCH
- PS FIRE SPRINKLER PRESSURE SWITCH
- FS FIRE ALARM SPEAKER ANNUNCIATOR
- PJ FIRE FIGHTERS PHONE JACK
- FP FIRE FIGHTERS TELEPHONE
- DH MAGNETIC DOOR HOLDER
- H WALL MOUNTED AUDIBLE ANNUNCIATOR (HORN) (G= VANDAL PROOF GUARD, WP=WEATHERPROOF)

CLOCKS SYSTEM SYMBOLS

- CEILING MOUNTED CLOCK
- WALL MOUNTED CLOCK HEIGHT AS DESIGNATED BY ARCHITECT
- WALL MOUNTED DOUBLE FACE HEIGHT AS DESIGNATED BY ARCHITECT

INTERCOM SYSTEM SYMBOLS

- SP INTERCOM SPEAKER, CEILING MOUNTED (G=VANDAL PROOF GUARD)
- SP INTERCOM SPEAKER, WALL MOUNTED (G=VANDAL PROOF GUARD)
- I INTERCOM CALL SWITCH (V=VOLUME CONTROL)
- I INTERCOM SPEAKER, EXTERIOR HORN-TYPE (G=VANDAL PROOF GUARD, WP=WEATHERPROOF)
- AMP AMPLIFIER
- ISC INTERCOM SYSTEM CABINET
- IC INTERCOM CALL-IN SWITCH
- ACS ADMINISTRATIVE CONTROL SYSTEM
- S_I INTERCOM PUSHBUTTON (V=VOLUME CONTROL)

SECURITY & ACCESS CONTROL SYSTEM SYMBOLS

- SEC SECURITY MAIN CONTROL PANEL
- DB DURESS ALARM PUSHBUTTON
- DB DURESS SYSTEM WIRELESS RECEIVER/ANTENNA
- PB PUSH BUTTON
- EPB EGRESS PUSHBUTTON
- CR CARD READER
- CCTV CLOSED CIRCUIT TELEVISION OUTLET
- DC DOOR CONTACT
- ML MAGNETIC DOOR LOCK
- MD MOTION DETECTOR, ROUGH-IN ONLY, 90" AFF, MAXIMUM 6" FROM NEAREST CORNER TO CENTER OF BOX, 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH BUSHINGS AND PULL-STRING UNLESS INDICATED OTHERWISE.
- GB GLASS BREAK SENSOR ROUGH-IN ONLY, 90" AFF, MAXIMUM 6" FROM NEAREST CORNER TO CENTER OF BOX, 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH BUSHINGS AND PULL-STRING UNLESS INDICATED OTHERWISE.
- REX REQUEST TO EXIT SENSOR
- ES ELECTRIC STRIKE
- CAMERA (CFCI) OWNER FURNISHED, OWNER INSTALLED
- CAM CAMERA (CFCI) CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
- CAM DOMED CAMERA

TELECOM. / TELEPHONE / DATA SYSTEM SYMBOLS

- PLYWOOD TELEPHONE BACKBOARD
- TELEPHONE OUTLET IN WALL, ROUGH-IN ONLY, 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH BUSHINGS AND PULL-STRING UNLESS INDICATED OTHERWISE.
- 2 DATA OUTLET IN WALL, ROUGH-IN ONLY, 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH BUSHINGS AND PULL-STRING UNLESS INDICATED OTHERWISE.
- (2) REPRESENTS THE QUANTITY OF PORTS IN OUTLET
- 2 PHONE AND DATA OUTLET IN WALL, ROUGH-IN ONLY, 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH BUSHINGS AND PULL-STRING UNLESS INDICATED OTHERWISE.
- FLOOR TELEPHONE AND DATA OUTLET, POKE-THRU TYPE
- T THERMOSTAT
- CABLE TELEVISION OUTLET, ROUGH-IN ONLY. 15" A.F.F. UNLESS INDICATED OTHERWISE.
- TV FLOOR CABLE TELEVISION OUTLET
- WAP WIRELESS ACCESS POINT
- ANTENNA

ONE-LINE DIAGRAM SYMBOLS

- H-O-A SELECTOR SWITCH
- PB STOP/START PUSHBUTTON STATION
- LIGHTING ARRESTER AND SURGE CAPACITOR
- TRANSFORMER
- TRANSFORMER (SHIELDED)
- M MOTOR STARTER RELAY AND CONTACTOR
- TM ELAPSED (RUNNING) TIME METER
- CONTROL POWER TRANSFORMER
- MCP CIRCUIT BREAKER (MOTOR CIRCUIT PROTECTOR)
- DISCONNECT SWITCH
- BUS STAB
- CT CURRENT TRANSFORMER
- MOTOR RESISTANCE TYPE WINDING HEATER
- THERMAL OVERLOAD CIRCUIT
- BREAKER (THERMAL MAGNETIC TYPE)
- FUSE
- CONTACT (NORMALLY OPEN)
- CONTACT (NORMALLY CLOSED)
- PUSHBUTTON (NORMALLY OPEN)
- PUSHBUTTON (NORMALLY CLOSED)
- LIMIT SWITCH (NORMALLY OPEN)
- TIME DELAY CONTACT
- PILOT LIGHT W/COLOR INDICATED (A-AMBER ,G-GREEN ,R-RED)
- SOLENOID VALVE
- DIFFERENTIAL PRESSURE SWITCH
- AUTOMATIC TRANSFER SWITCH
- DISCONNECT SWITCH 400/3/400AF/N3R INDICATES FRAME SIZE/POLES/FUSE AMPACITY/ENCLOSURE

PANELS AND RELATED EQUIPMENT

- PANELBOARD SURFACE MOUNTED (REFER TO PANEL SCHEDULE)
- PANELBOARD FLUSH MOUNTED (REFER TO PANEL SCHEDULE)
- TRANSFORMER, WITH CONCRETE HOUSEKEEPING PAD (REFER TO ONE-LINE DIAGRAM)
- ATS AUTOMATIC TRANSFER SWITCH (REFER TO ONE-LINE DIAGRAM)

ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CKT	CIRCUIT
CONN	CONNECT OR CONNECTION
CT	CURRENT TRANSFORMER
EA	EACH
EF	EXHAUST FAN
ELEC	ELECTRIC
EMER	EMERGENCY
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
J-BOX	JUNCTION BOX
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KCM	THOUSAND CIRCULAR MILS
KW	KILOWATT
LTG	LIGHT OR LIGHTING
MFG	MANUFACTURER
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MIN	MINIMUM
MH	METAL HALIDE
MLO	MAIN LUG ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
Ø	PHASE
OL	OVERLOAD
OH(D)	OVERHEAD
PA	PUBLIC ADDRESS
SC	SPLIT CIRCUIT
SFD	SMOKE FIRE DAMPER
SW	SWITCH
T/D	TELEPHONE & DATA
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLT
W	WATTS
W/	WITH
WP	WEATHER PROOF
XFMR	TRANSFORMER

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RVK Landscape Architects

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Date:	Revisions/Submissions

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LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS
ELECTRICAL SYMBOLS & ABBREVIATIONS

E 0.0

Designed by:	TJS
Drawn by:	KAK/MCD
Date:	06/24/2016
Project No.:	WBS 23-01455
Filename:	E0.0

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REGISTERED LANDSCAPE ARCHITECT — LARRY A. HOOD #810 — STATE OF TEXAS — 7-19-16

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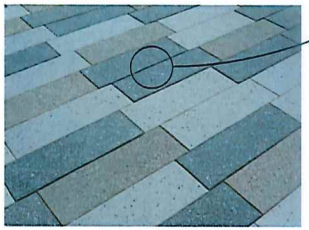
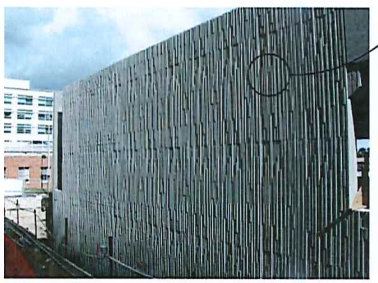
Date:	Revisions/Submissions

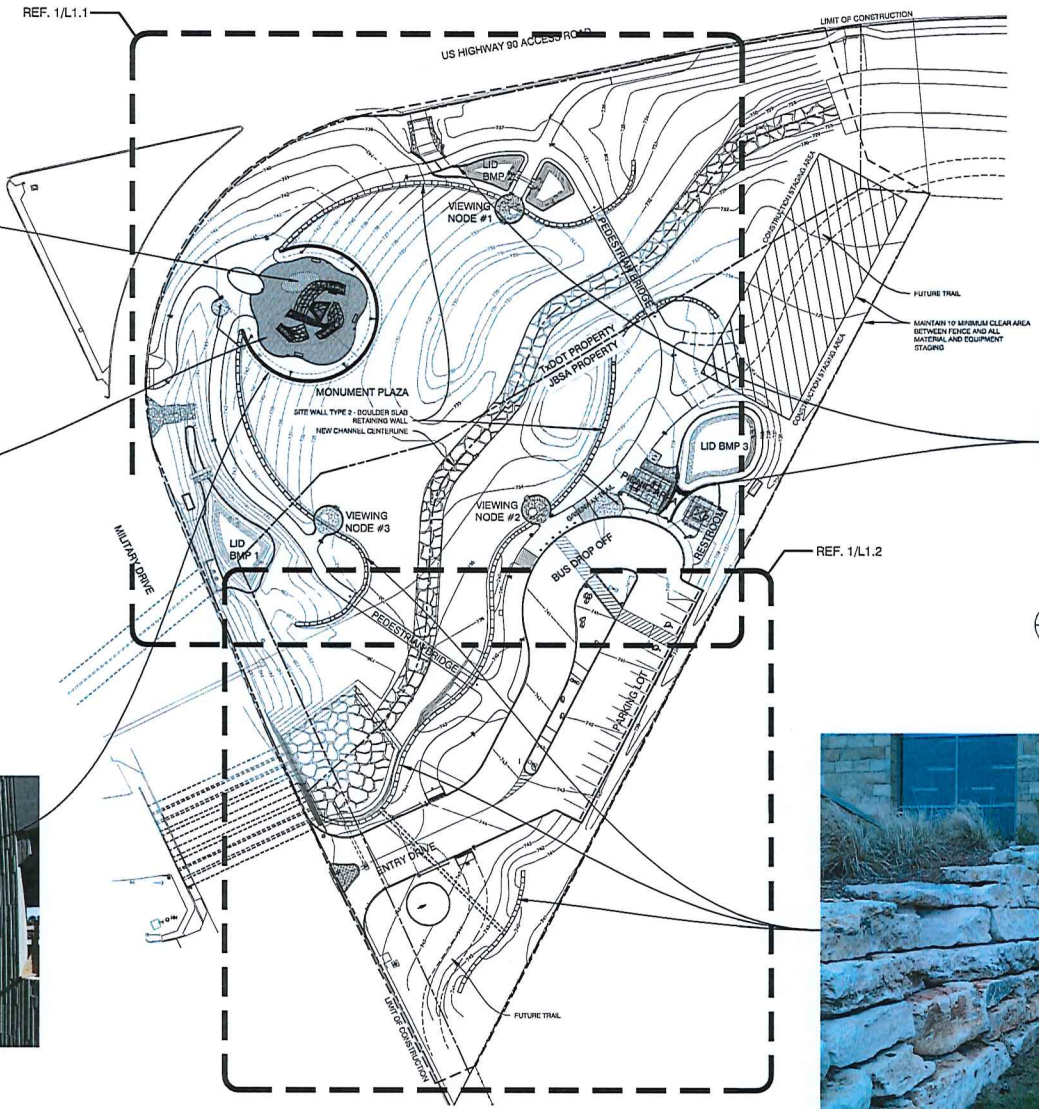
2 L1.0 **PLAZA PAVING**
CONCEPT IMAGE



3 L1.0 **PLAZA PAVING**
CONCEPT IMAGE



4 L1.0 **SITE WALL TYPE 1**
CONCEPT IMAGE - CONCRETE WALL W/ TEXTURE



1 L1.0 **OVERALL HARDSCAPE PLAN**
1" = 40'-0"

5 L1.0 **LOW LANDSCAPE WALL**
CONCEPT IMAGE - CHOPPED LIMESTONE

6 L1.0 **SITE WALL TYPE 2**
CONCEPT IMAGE- BOULDER SLAB RETAINING WALL

HARDSCAPE GENERAL NOTES

1. THE PROJECT MANUAL IS A LEGAL PART OF THE SET OF CONSTRUCTION DRAWINGS AND AS SUCH SHALL BE PRESENT WITH THE SET OF CONSTRUCTION DRAWINGS ON THE SITE AT ALL TIMES.
2. 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/REPAIR WORK AS REQUIRED FOR APPROVAL AT THE COST OF THE CONTRACTOR. CONTRACTOR IS TO INFORM LANDSCAPE ARCHITECT OF THE START DATE OF WORK.
3. DO NOT WILLINGLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTION AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
5. IF CONFLICTS ARISE BETWEEN SIZE OF AREAS AND PLANS, CONTRACTOR IS TO CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE THE MATERIALS.
6. SEE SPECIFICATIONS FOR REQUIREMENTS, MATERIALS AND EXECUTION
7. REF. CIVIL PLANS FOR CONCRETE PAVING DIMENSIONAL CONTROLS, PAVEMENT, CURBS, PAVEMENT JOINTS, GRADING, UTILITIES AND PAVEMENT STRIPING.
8. GROUNDWATER MAYBE ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL MAKE PROVISIONS TO ALLOW FOR CONTINUATION OF WORK AT NO ADDITIONAL COST TO THE PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO DIVERSION DITCHES, PIPES AND PUMPING. REFER TO GEOTECHNICAL ENGINEERING STUDY AND EXISTING CONDITIONS SHEET FOR APPROXIMATE LOCATION AND DEPTHS OF GROUNDWATER.

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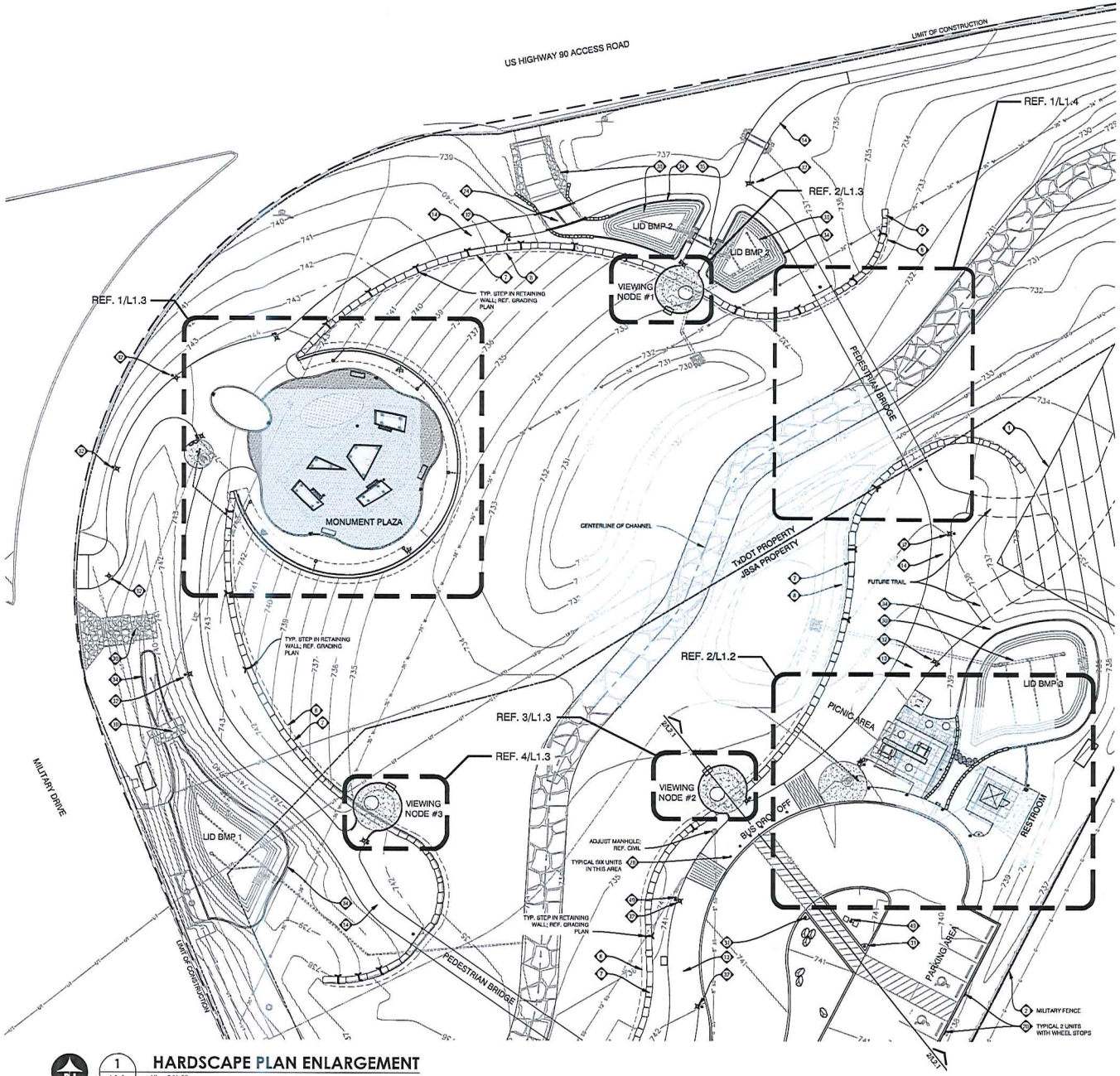
SAN ANTONIO, TEXAS

OVERALL HARDSCAPE PLAN

L / 1.0

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L1-0 Hardscape.DWG



1 / L1.1 HARDSCAPE PLAN ENLARGEMENT

1" = 20'-0"

HARDSCAPE NOTES(◇Keyed on Plan)

1. CONSTRUCTION STAGING AREA; COORDINATE WITH OWNER & CIVIL ENGINEER FOR FINAL LOCATION
2. EXISTING SITE ELEMENT TO REMAIN. PROTECT IN PLACE
3. MONUMENT FOUNDATION; REF. STRUCTURAL
4. MONUMENT INSTALLED BY P.A.S.A CONTRACT; COORDINATE EQUIPMENT STAGING REQUIREMENTS AND SCHEDULE.
5. CONCRETE PAVER TYPE 1; REF. DETAIL 1/L3.0
6. SITE WALL TYPE 1 - TEXTURED CONCRETE; REF. DETAIL 1/L3.1
7. SITE WALL TYPE 2 - BOULDER SLAB RETAINING WALL; REF. DETAIL 2/L3.1
8. APPROXIMATE EDGE OF WALL FOOTING; REF. STRUCTURAL
9. SITE WALL TYPE 3 - LOW STONE WALL; REF. DETAIL 5/L3.1
10. CONCRETE SEAT WALL - CAST IN PLACE WITH TEXTURED FORMLINER; REF. DETAIL 6/L3.1
11. CIRCULAR BENCH - CAST IN PLACE WITH TEXTURED FORMLINER; REF. DETAIL 7/L3.1
12. CONCRETE PAVER TYPE 2; REF. DETAIL 1/L3.0
13. GREENWAY TRAIL: 12' WIDE WITH THICKENED EDGE BOTH SIDES; REF. CIVIL
14. GATEWAY TRAIL: 8' WIDE WITH THICKENED EDGE BOTH SIDES; REF. CIVIL
15. PEDESTRIAN BRIDGE W/ CONC. ABUTMENTS, LIGHTING; REF. BR 1.0, STRUCTURAL, CIVIL, ELECTRICAL
16. BIKE RACK; REF. DETAIL 2/L3.3
17. CONCRETE EXPANSION JOINT; REF. CIVIL
18. CONCRETE FLATWORK WITH SPECIAL FINISH (ROCK SALT); REF. CIVIL
19. GUARDRAIL / HANDRAIL WITH LED; REF. DETAILS SHEET L3.7 & ELECTRICAL
20. ACCESSIBLE PARKING SIGN; REF. DTL. 2/L5.0
21. PEDESTAL DRINKING FOUNTAIN W/ DRAIN LINE AND CHECK VALVE; REF. DETAIL 1/L3.2
22. SALVAGED CONCRETE SLAB SURFACING; REF. DTL. 3/L3.0
23. PICNIC AREA AND RESTROOM SHADE STRUCTURES; REF. SHEET L3.5
24. CONCRETE SIDEWALK BRIDGE; REF. DETAIL 4/3.2
25. PROTECTIVE RAIL (NO HANDRAIL); REF. SHEET L3.6
26. LITTER AND RECYCLING RECEPTACLES (ONE EACH); REF. DETAIL 3/L3.3
27. CONCRETE PICNIC TABLES; REF. DETAIL 1/L3.3
28. TYPE 1 FIXED BOLLARD; REF. DTL. 2/L3.4
29. MANUAL SWING GATE & LOCK; REF. DTL. 2/L3.2
30. LID BMP; REF. ENVIRONMENTAL CONSULTANT FOR DETAILS
31. TYPE 2 BOLLARD W/ LIGHT FIXTURE; REF. DTL. 4/L3.4; REF. ELECTRICAL
32. POLE TOP AREA LIGHT FIXTURE; REF. ELECTRICAL
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36. 10" NYOPLAST IN-LINE DRAIN WITH DUCTILE IRON DOME GRATE; REF. DTL. 3/L3.2
37. HIGH OUTPUT FLOODLIGHT FIXTURE; REF. DTL. 2/L6.2; REF. ELECTRICAL
38. HIGH OUTPUT IN-GROUND FLOODLIGHT FIXTURE - RGBW; REF. DTL. 3/L6.2; REF. ELECTRICAL
39. IN-GROUND LINEAR WALL LIGHT FIXTURE - RGBW; REF. DTL. 1/L6.2; REF. ELECTRICAL
40. TYPE 2 BOLLARD - REMOVABLE; REF. DTL. 3/L3.4
41. MUTT MITT; REF. DTL. 1/L-3.4
42. ASH URN; REF. DTL. 5/L-3.4
43. RECESSED POST LIGHT AT BRIDGE END; REF. DTL. 4/DR1.0
44. SIGN; REF. SIGNAGE PLAN L5.0 & LC/LW SHEETS
45. OUTDOOR CHARGING STATION; REF. DTL. 5/L3.3
46. MONUMENT PLAZA BENCH; REF. DTL. 4/L3.3
47. CONCRETE PAVER TYPE 3 - VEHICULAR; REF. DTL. 6/L3.0
48. EMERGENCY TOWER; REF. DTL.6/L3.4
49. SECURITY CAMERA LOCATION (8 UNITS)
50. RETAINING WALL - TYPE 4; REF. DTL. 8/L3.3
51. BLANCO COBBLE BLEND; REF. DTL. 1/L3.1 & DTL. 10/L4.4 SIM.

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REGISTERED LANDSCAPE ARCHITECT - STATE OF TEXAS - LARRY A. HOOD - 910

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HARDSCAPE PLAN ENLARGEMENTS

L / 1.1

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No. :	WBS 23-01455
Filename:	14161_L1-0 Hardscape.DWG

HARDSCAPE NOTES(◇Keyed on Plan)

1. CONSTRUCTION STAGING AREA; COORDINATE WITH OWNER & CIVIL ENGINEER FOR FINAL LOCATION
2. EXISTING SITE ELEMENT TO REMAIN. PROTECT IN PLACE
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FIRM NUMBER: F-8478

REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS — JOHN A. HUCKS #219 — 7-19-16

RVK Landscape Architects

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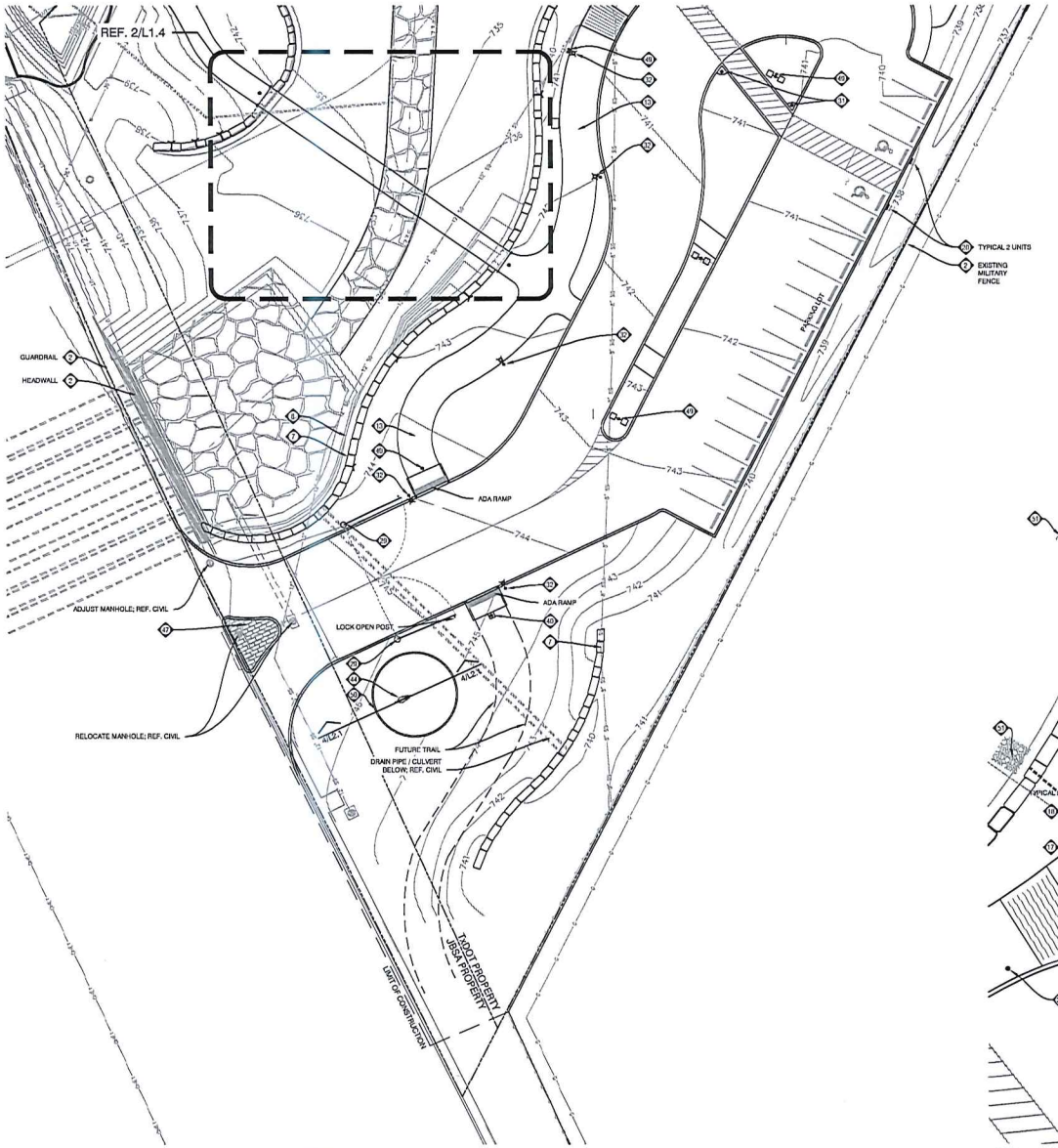
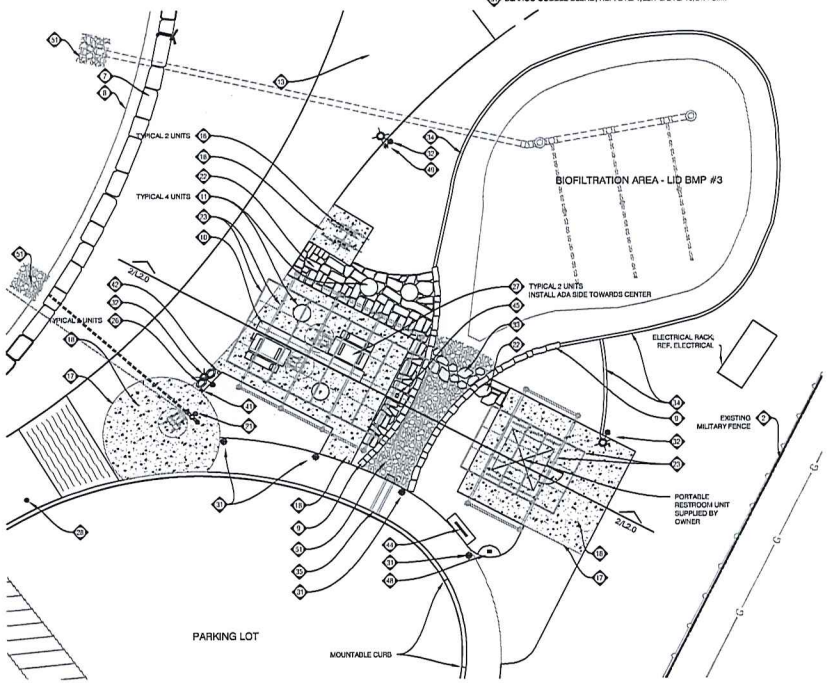
Date:	Revisions/Submissions



1 / L1.2 **HARDSCAPE PLAN ENLARGEMENT**
1" = 20'-0"



2 / L1.2 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0"

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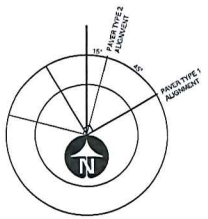
LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

HARDSCAPE PLAN ENLARGEMENTS

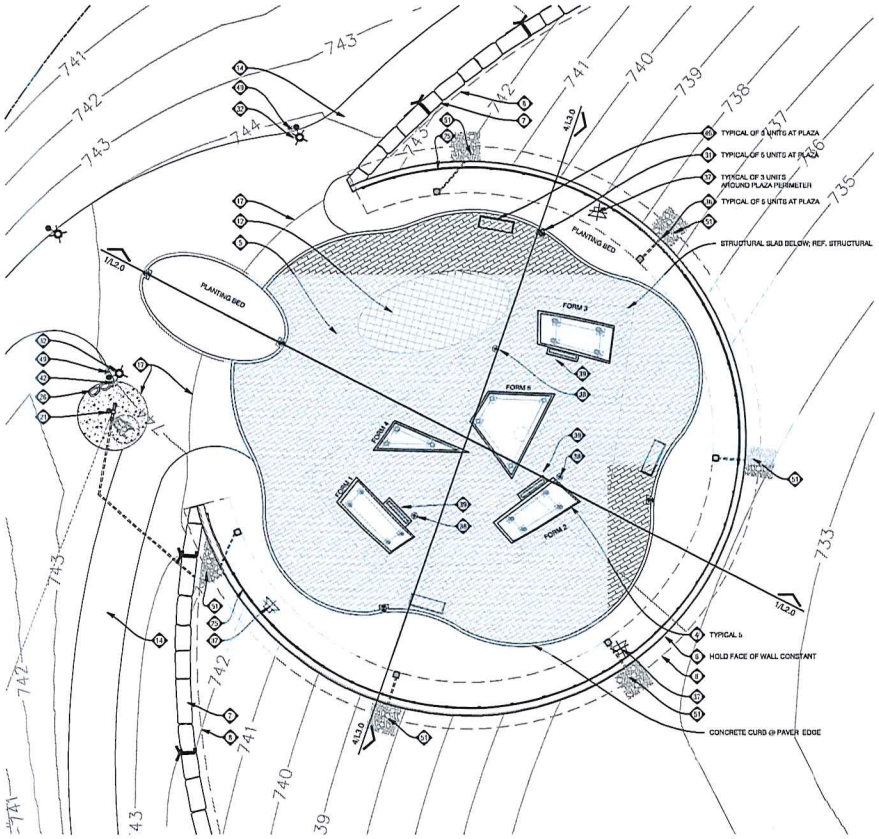
L / 1.2

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L1-0 Hardscape.DWG

PAVER LAYOUT ORIENTATION



NOTES:
1. USE DIAGRAM ABOVE FOR PAVER ALIGNMENT ANGLES.
2. THERE IS A 45° DIFFERENCE BETWEEN THE TWO MONUMENT PAVER TYPES.
3. MONUMENT PLAZA PAVER ALIGNMENT IS RELATED TO ORIENTATION OF SCULPTURE.

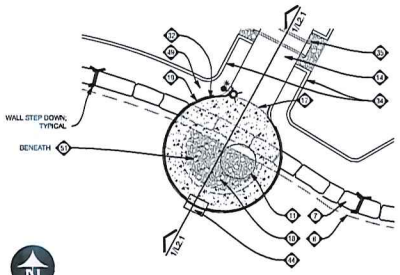


N

1 L1.3 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0"

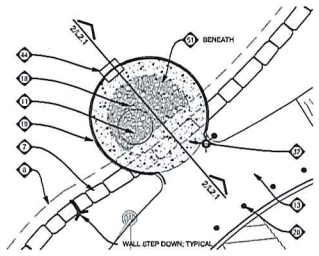
HARDSCAPE NOTES(◇Keyed on Plan)

1. CONSTRUCTION STAGING AREA; COORDINATE WITH OWNER & CIVIL ENGINEER FOR FINAL LOCATION
2. EXISTING SITE ELEMENT TO REMAIN. PROTECT IN PLACE
3. MONUMENT FOUNDATION; REF. STRUCTURAL
4. MONUMENT INSTALLED BY P.A.S.A CONTRACT; COORDINATE EQUIPMENT STAGING REQUIREMENTS AND SCHEDULE.
5. CONCRETE PAVER TYPE 1; REF. DETAIL 1/L3.0
6. SITE WALL TYPE 1 - TEXTURED CONCRETE; REF. DETAIL 1/L3.1
7. SITE WALL TYPE 2 - BOULDER SLAB RETAINING WALL; REF. DETAIL 2/L3.1
8. APPROXIMATE EDGE OF WALL FOOTING; REF. STRUCTURAL
9. SITE WALL TYPE 3 - LOW STONE WALL; REF. DETAIL 5/L3.1
10. CONCRETE SEAT WALL - CAST IN PLACE WITH TEXTURED FORMLINER; REF. DETAIL 6/L3.1
11. CIRCULAR BENCH - CAST IN PLACE WITH TEXTURED FORMLINER; REF. DETAIL 7/L3.1
12. CONCRETE PAVER TYPE 2; REF. DETAIL 1/L3.0
13. GREENWAY TRAIL: 12' WIDE WITH THICKENED EDGE BOTH SIDES; REF. CIVIL
14. GATEWAY TRAIL: 8' WIDE WITH THICKENED EDGE BOTH SIDES; REF. CIVIL
15. PEDESTRIAN BRIDGE W/ CONC. ABUTMENTS, LIGHTING; REF. BR 1.0, STRUCTURAL, CIVIL, ELECTRICAL
16. BIKE RACK; REF. DETAIL 2/L3.3
17. CONCRETE EXPANSION JOINT; REF. CIVIL
18. CONCRETE FLATWORK WITH SPECIAL FINISH (ROCK SALT); REF. CIVIL
19. GUARDRAIL / HANDRAIL WITH LED; REF. DETAILS SHEET L3.7 & ELECTRICAL
20. ACCESSIBLE PARKING SIGN; REF. DTL. 2/L5.0
21. PEDESTAL DRINKING FOUNTAIN W/ DRAIN LINE AND CHECK VALVE; REF. DETAIL 1/L3.2
22. SALVAGED CONCRETE SLAB SURFACING; REF. DTL. 3/L3.0
23. PICNIC AREA AND RESTROOM SHADE STRUCTURES; REF. SHEET L3.5
24. CONCRETE SIDEWALK BRIDGE; REF. DETAIL 4/G.2
25. PROTECTIVE RAIL (NO HANDRAIL); REF. SHEET L3.6
26. LITTER AND RECYCLING RECEPTACLES (ONE EACH); REF. DETAIL 3/L3.3
27. CONCRETE PICNIC TABLES; REF. DETAIL 1/L3.3
28. TYPE 1 FIXED BOLLARD; REF. DTL. 2/L3.4
29. MANUAL SWING GATE & LOCK; REF. DTL. 2/L3.2
30. LID BMP; REF. ENVIRONMENTAL CONSULTANT FOR DETAILS
31. TYPE 2 BOLLARD W/ LIGHT FIXTURE; REF. DTL. 4/L3.4; REF. ELECTRICAL
32. POLE TOP AREA LIGHT FIXTURE; REF. ELECTRICAL
33. NATIVE BOULDER STEPPING STONES; REF. DTL. 8/L3.1
34. CHOPPED LIMESTONE STONE EDGE; REF. DTL. 7/L4.4
35. SIDEWALK DOX DRAIN; REF. CIVIL
36. 10" NYOPLAST IN-LINE DRAIN WITH DUCTILE IRON DOME GRATE; REF. DTL. 3/L3.2
37. HIGH OUTPUT FLOODLIGHT FIXTURE; REF. DTL. 2/L6.2; REF. ELECTRICAL
38. HIGH OUTPUT IN-GROUND FLOODLIGHT FIXTURE - RGBW; REF. DTL. 3/L6.2; REF. ELECTRICAL
39. IN-GROUND LINEAR WALL LIGHT FIXTURE - RGBW; REF. DTL. 1/L6.2; REF. ELECTRICAL
40. TYPE 2 BOLLARD - REMOVABLE; REF. DTL. 3/L3.4
41. MUTT MITT; REF. DTL. 1/L-3.4
42. ASH URN; REF. DTL. 5/L-3.4
43. RECESSED POST LIGHT AT BRIDGE END; REF. DTL. 4/BR1.0
44. SIGN; REF. SIGNAGE PLAN L5.0 & LC/LW SHEETS
45. OUTDOOR CHARGING STATION; REF. DTL. 5/L3.3
46. MONUMENT PLAZA BENCH; REF. DTL. 4/L3.3
47. CONCRETE PAVER TYPE 3 - VEHICULAR; REF. DTL. 6/L3.0
48. EMERGENCY TOWER; REF. DTL.6/L3.4
49. SECURITY CAMERA LOCATION (8 UNITS)
50. RETAINING WALL - TYPE 4; REF. DTL. 8/L3.3
51. BLANCO COBBLE BLEND; REF. DTL. 1/L3.1 & DTL. 10/L4.4 SIM.



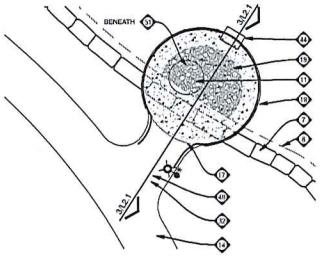
N

2 L1.3 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0" VIEWING NODE 1



N

3 L1.3 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0" VIEWING NODE 2



N

4 L1.3 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0" VIEWING NODE 3

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OFFICE: (210) 341-6200 FAX: (210) 341-6300
FIRM NUMBER: F-8476

RVK Landscape Architects

REGISTERED LANDSCAPE ARCHITECT JAMES A. HINCKS 210 STATE OF TEXAS
7-19-16

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Date:	Revisions/Submissions

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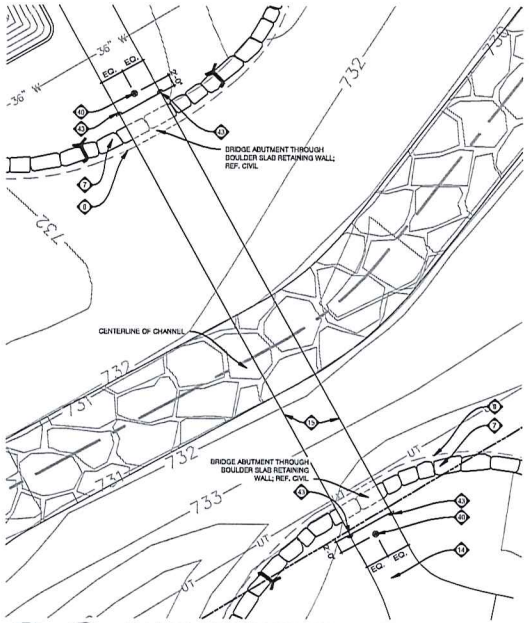
LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

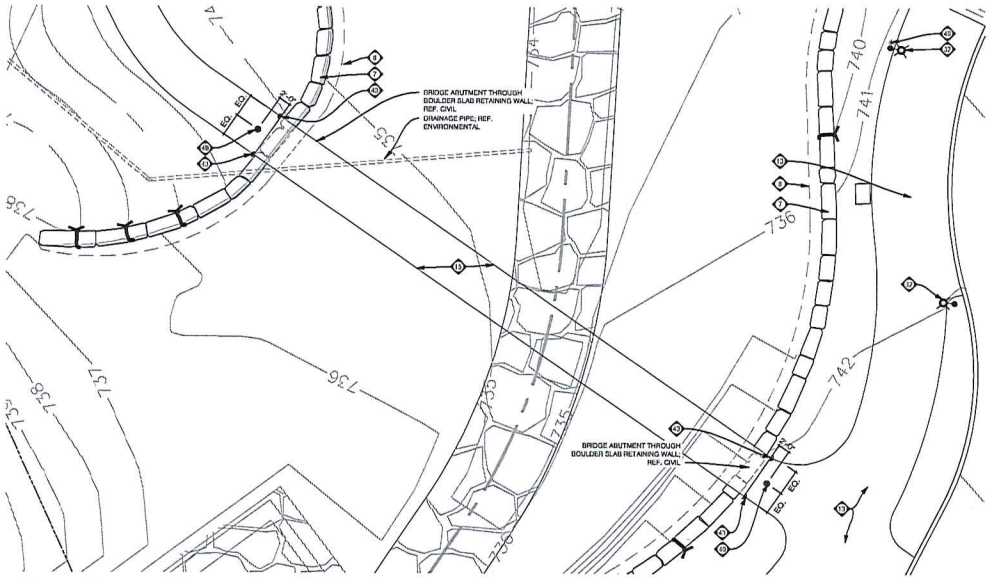
HARDSCAPE PLAN ENLARGEMENT

L / 1.3

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L1-0 Hardscape.DWG



1 / L1.4 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0"



2 / L1.4 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0"

HARDSCAPE NOTES(◇Keyed on Plan)

1. CONSTRUCTION STAGING AREA; COORDINATE WITH OWNER & CIVIL ENGINEER FOR FINAL LOCATION
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9. SITE WALL TYPE 3 - LOW STONE WALL; REF. DETAIL 5/L3.1
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11. CIRCULAR BENCH - CAST IN PLACE WITH TEXTURED FORMLINER; REF. DETAIL 7/L3.1
12. CONCRETE PAVER TYPE 2; REF. DETAIL 1/L3.0
13. GREENWAY TRAIL: 12' WIDE WITH THICKENED EDGE BOTH SIDES; REF. CIVIL
14. GATEWAY TRAIL: 8' WIDE WITH THICKENED EDGE BOTH SIDES; REF. CIVIL
15. PEDESTRIAN BRIDGE W/ CONC. ABUTMENTS, LIGHTING; REF. BR 1.0, STRUCTURAL, CIVIL, ELECTRICAL
16. BIKE RACK; REF. DETAIL 2/L3.3
17. CONCRETE EXPANSION JOINT; REF. CIVIL
18. CONCRETE FLATWORK WITH SPECIAL FINISH (ROCK SALT); REF. CIVIL
19. GUARDRAIL / HANDRAIL WITH LED; REF. DETAILS SHEET L3.7 & ELECTRICAL
20. ACCESSIBLE PARKING SIGN; REF. DTL. 2/L5.0
21. PEDESTAL DRINKING FOUNTAIN W/ DRAIN LINE AND CHECK VALVE; REF. DETAIL 1/L3.2
22. SALVAGED CONCRETE SLAB SURFACING; REF. DTL. 3/L3.0
23. PICNIC AREA AND RESTROOM SHADE STRUCTURES; REF. SHEET L3.5
24. CONCRETE SIDEWALK BRIDGE; REF. DETAIL 4/3.2
25. PROTECTIVE RAIL (NO HANDRAIL); REF. SHEET L3.8
26. LITTER AND RECYCLING RECEPTACLES (ONE EACH); REF. DETAIL 3/L3.3
27. CONCRETE PICNIC TABLES; REF. DETAIL 1/L3.3
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32. POLE TOP AREA LIGHT FIXTURE; REF. ELECTRICAL
33. NATIVE BOULDER STEPPING STONES; REF. DTL. 8/L3.1
34. CHOPPED LIMESTONE STONE EDGE; REF. DTL. 7/L4.4
35. SIDEWALK BOX DRAIN; REF. CIVIL
36. 18" NYOPLAST IN LINE DRAIN WITH DUCTILE IRON DOME GRATE; REF. DTL. 3/L3.2
37. HIGH OUTPUT FLOODLIGHT FIXTURE; REF. DTL. 2/L6.2; REF. ELECTRICAL
38. HIGH OUTPUT IN-GROUND FLOODLIGHT FIXTURE - RGBW; REF. DTL. 3/L6.2; REF. ELECTRICAL
39. IN-GROUND LINEAR WALL LIGHT FIXTURE - RGBW; REF. DTL. 1/L6.2; REF. ELECTRICAL
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49. SECURITY CAMERA LOCATION (8 UNITS)
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51. BLANCO COBBLE BLEND; REF. DTL. 1/L3.1 & DTL. 10/L4.4 SIM.

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Engineering - Planning - Transportation - Related Services 415
EMBASSY OAKS - SUITE 205 San Antonio, TX. 78216
OFFICE: (210) 341-6200 FAX: (210) 341-6350
FIRM NUMBER: F-8478

RVK Landscape Architects

REGISTERED LANDSCAPE ARCHITECT — LARRY A. HOCK — 910 — STATE OF TEXAS

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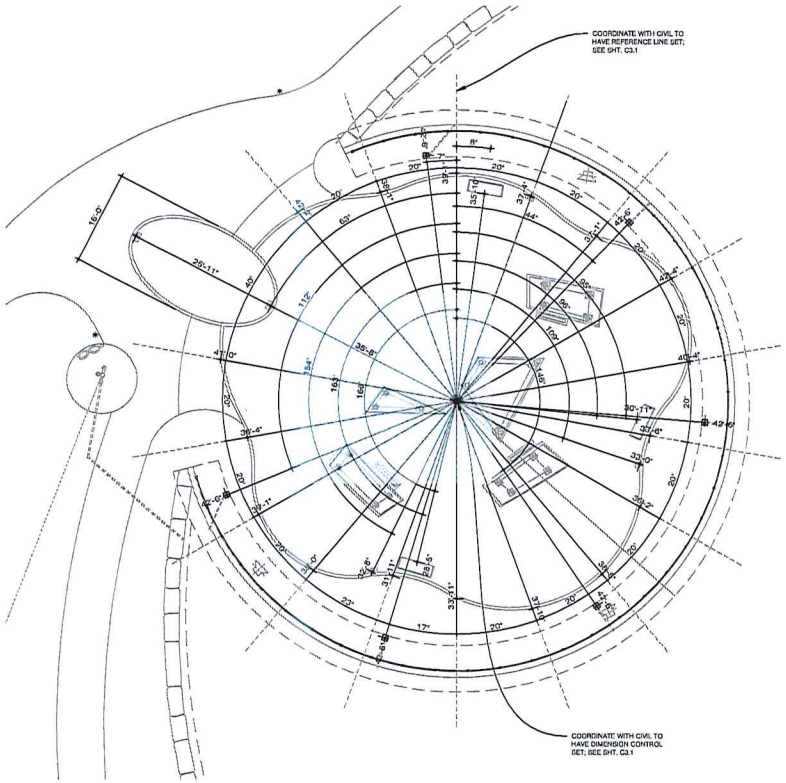
LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

HARDSCAPE PLAN ENLARGEMENTS

L / 1.4

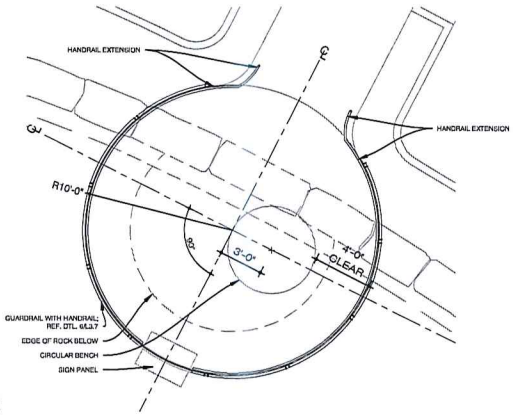
Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L1-0 Hardscape.DWG



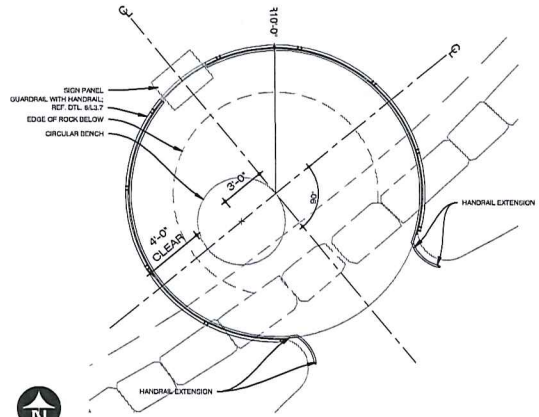
1 MONUMENT PLAZA LAYOUT PLAN
L1.5 — 1" = 10'-0"

NOTES:
1. DIMENSIONS TO COLUMNS ARE TAKEN FROM THE CENTER OF THE COLUMN
2. REFER TO SHEET L3.5 FOR DIMENSIONAL CONTROL OF STRUCTURE
3. CONFIRM SPOT ELEVATIONS OF WALLS & PAVILION WITH LANDSCAPE ARCHITECT

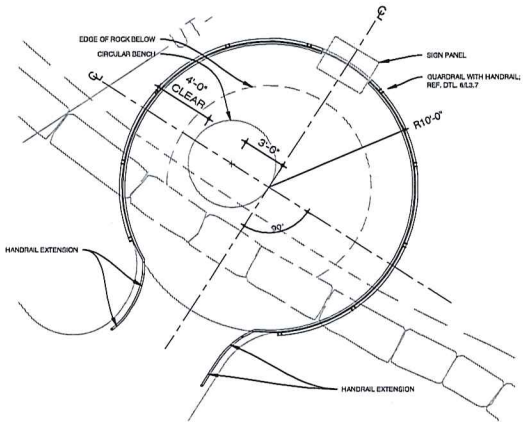
2 PICNIC AREA LAYOUT PLAN
L1.5 — 3/16" = 1'-0"



3 NODE 1 LAYOUT PLAN
L1.5 — 1/4" = 1'-0"



4 NODE 2 LAYOUT PLAN
L1.5 — 1/4" = 1'-0"



5 NODE 3 LAYOUT PLAN
L1.5 — 1/4" = 1'-0"

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Engineering - Planning - Transportation - Related Services 415
EMBASSY OAKS - SUITE 205 San Antonio, TX. 78216
OFFICE: (210) 341-6200 FAX: (210) 341-6300
FIRM NUMBER: F-8478

RVK Landscape Architects

ARMY A. HICKS — REGISTERED LANDSCAPE ARCHITECT — STATE OF TEXAS — 910

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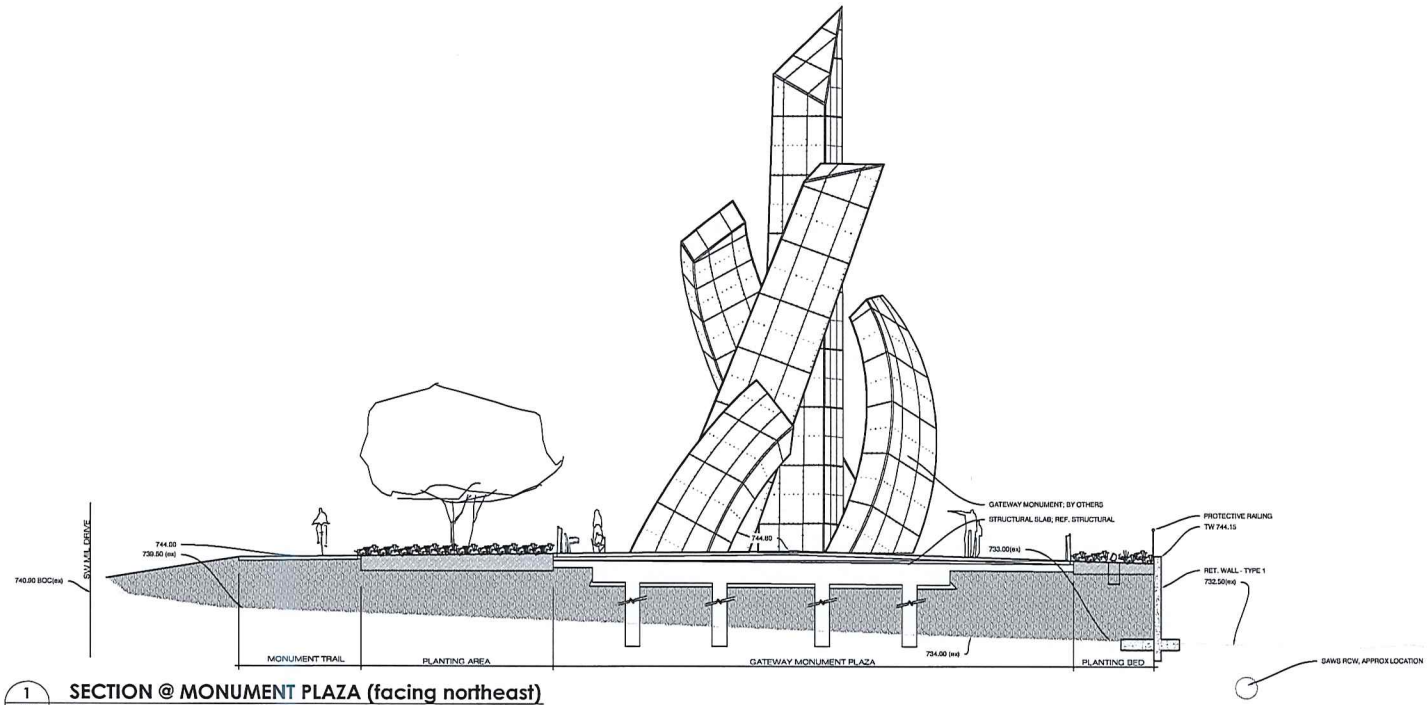
LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

HARDSCAPE LAYOUT PLANS

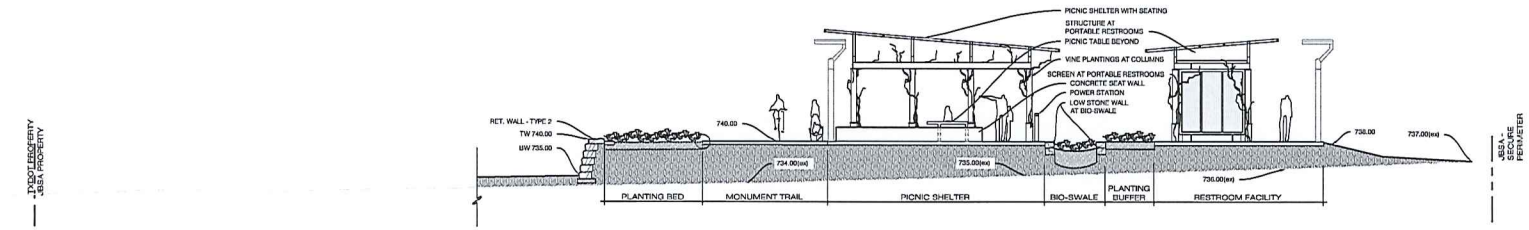
L / 1.5

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L1-0 Hardscape.DWG



1 L2.0 **SECTION @ MONUMENT PLAZA (facing northeast)**

NTS



2 L2.0 **SECTION @ PICNIC SHELTER (facing northeast)**

NTS

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OFFICE: (210) 341-6200 FAX: (210) 341-6300
FIRM NUMBER: F-8478

RVK Landscape Architects

TCI

ARMY A. HICKS #910 REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS
7-19-16

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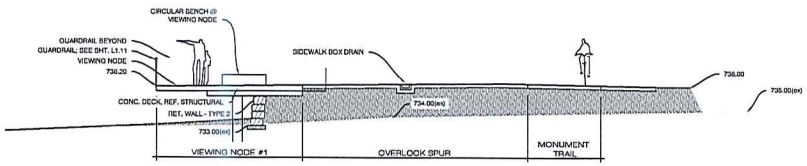
LACKLAND CORRIDOR GATEWAY

SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

SITE SECTIONS

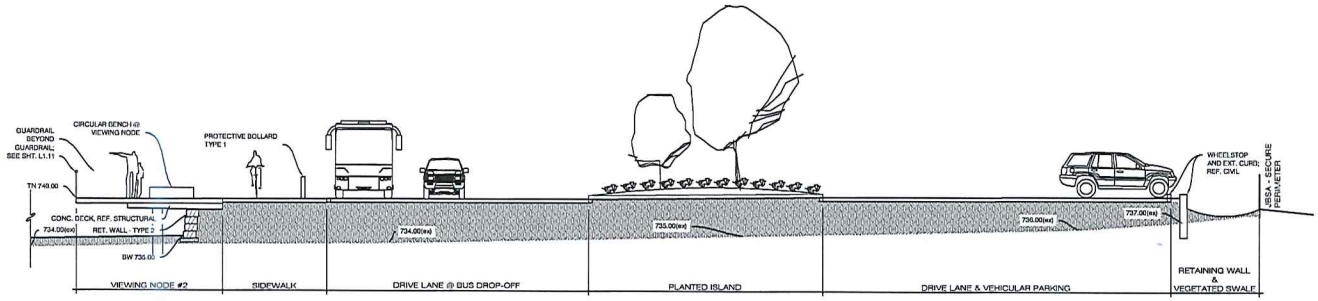
L / 2.0

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L2-0_Sections.DWG



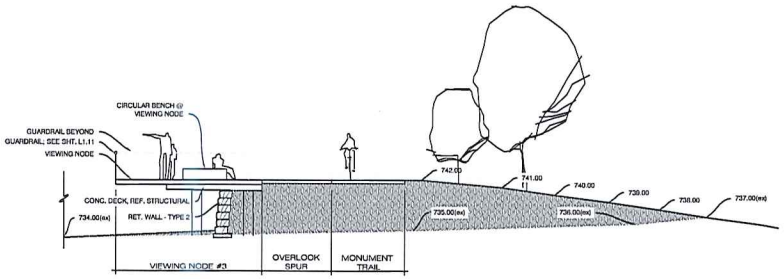
1 L2.1 **SECTION @ VIEWING NODE #1 (facing northwest)**

NTS



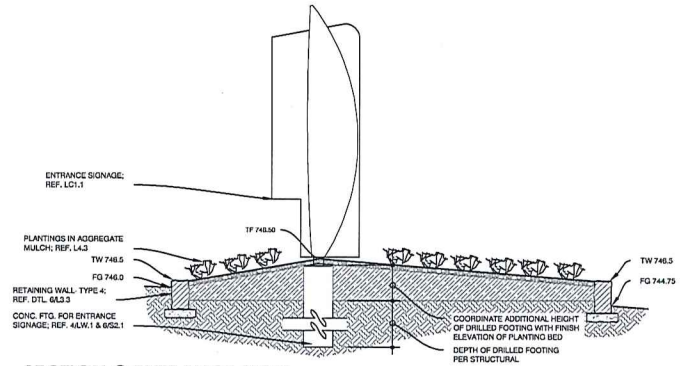
2 L2.1 **SECTION @ VIEWING NODE #2 (facing northeast)**

NTS



3 L2.1 **SECTION @ VIEWING NODE #3 (facing southeast)**

NTS



4 L2.1 **SECTION @ ENTRANCE SIGN**

NTS

CAMACHO-HERNANDEZ & ASSOCIATES, LLC
Engineering - Planning - Transportation - Related Services 415
EMBASSY OAKS - SUITE 205 San Antonio, TX. 78216
OFFICE: (210) 341-0200 FAX: (210) 341-0300
FIRM NUMBER: F-8478

RVK Landscape Architects

LARRY A. HUGES REGISTERED LANDSCAPE ARCHITECT STATE OF TEXAS 910

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Date:	Revisions/Submissions

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P.O. BOX 839966 SAN ANTONIO, TX 78283-3966
TEL. (210) 207-2879 FAX (210) 207-2197

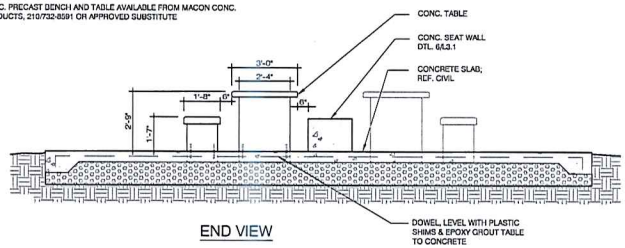
LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

SITE SECTIONS

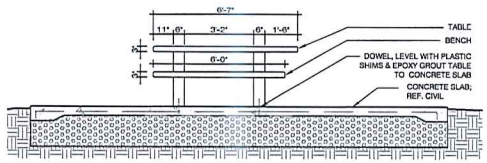
L / 2.1

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L2-0_Sections.DWG

CONC. PRECAST BENCH AND TABLE AVAILABLE FROM MACON CONC. PRODUCTS, 210/732-8591 OR APPROVED SUBSTITUTE



END VIEW

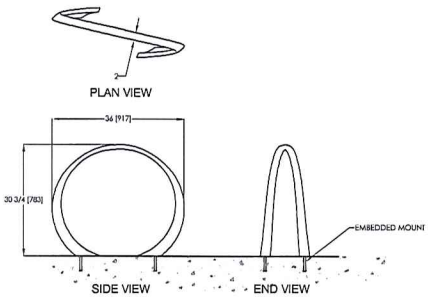


SIDE VIEW

1 / L3.3 CONCRETE PICNIC TABLE AND BENCH

3/8" = 1'-0"

Loop — Bike Rack, Embedded



landscapeforms Drawing: AE100-02 Dimensions are in inches [mm] Patent Pending

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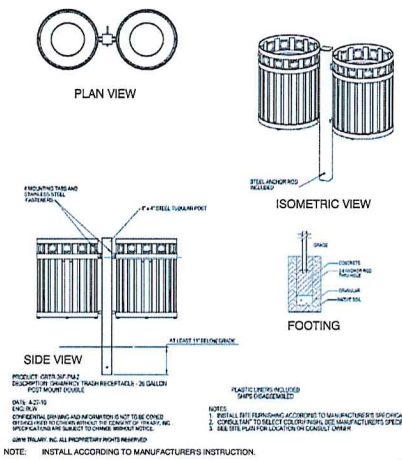
NOTE: INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTION.

2 / L3.3 BIKE RACK (2 UNITS)

NTS



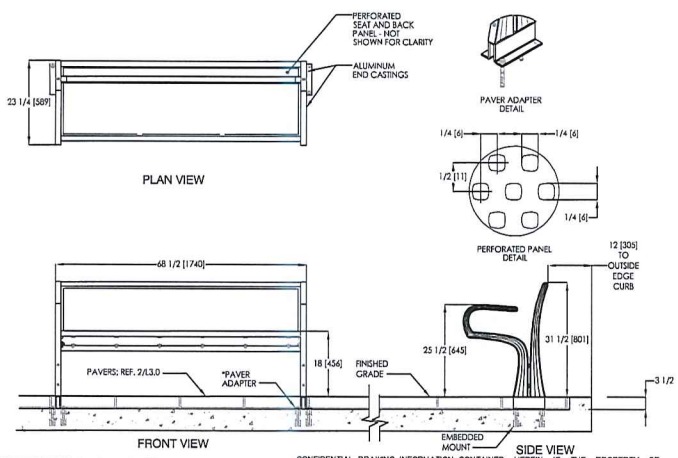
NOTE: INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTION.

3 / L3.3 LITTER & RECYCLING RECEPTACLES

NOT TO SCALE

NOTE:
1. TWO (2) RECYCLING & LITTER UNITS
2. REFER TO SPECS. FOR UNIT COLORS

Stay™ Bench, Backed, Paver Mount, with Arms
Product Drawing — www.landscapeforms.com — Date: 5/24/2010 Ph: 800.521.2541



landscapeforms Drawing: SA477-16 Dimensions are in inches [mm] U.S. Patent No.: D516,337

NOTE: INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTION.

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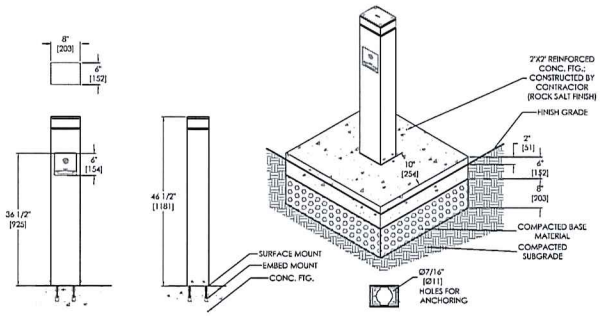
*PAVER NOTE: CONTRACTOR TO CONFIRM MOUNTING ELEVATION OF ADAPTER TO COORDINATE WITH PAVER SURFACE; LEVEL WITH SPACER AS MAY BE REQUIRED & EPOXY GROUT IN PLACE

4 / L3.3 BENCH (3 UNITS)

NOT TO SCALE

Outdoor charging station with accent light



AVAILABLE WITH:
2-GANG, TWO 4-PORT USB OUTLETS

landscapeforms Drawing: BM0002 Dimensions are in inches [mm] Patent No.

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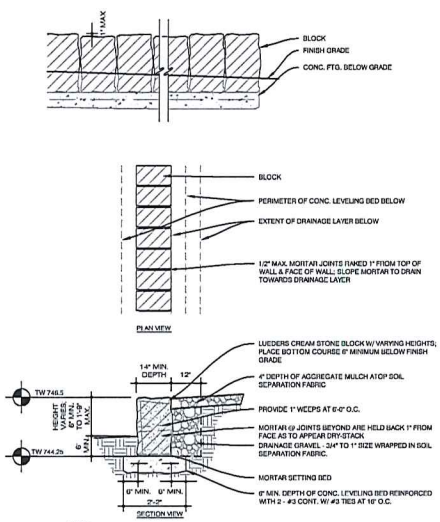
NOTE: INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTION.

5 / L3.3 OUTDOOR CHARGING STATION (1 UNIT)

NOT TO SCALE



NOTES:
1. BLOCK SIZE SHALL BE 14" DEEP x 8" WIDE x 2'-3" HIGH, HEIGHT OF BLOCK WILL VARY
A. TO PROVIDE VARYING HEIGHTS IN ELEVATION REMOVE MATERIAL FROM BOTTOM END OF BLOCK AND SET IN MORTAR BED
2. SHALL BE SET IN VERTICAL POSITION

6 / L3.3 RETAINING WALL - TYPE 4

1/2" = 1'

THOMAS STEELE DIVISION
TRI-LAKE INC.
1350 LEVEL DRIVE
WAUPACA, WI 54981
(800) 341-2051 (920) 849-1010 (920) 849-1011
WWW.THOMAS-STEELE.COM & WWW.SPLASHPROWSE-STEELE.COM

CAMACHO-HERNANDEZ & ASSOCIATES, LLC
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SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

HARDSCAPE DETAILS

L / 3.3

Designed By: LAH
Drawn By: RJR / KJB
Date: 07/19/2016
Project No.: WBS 23-01455
Filename: 14161_L3-0_Details.DWG

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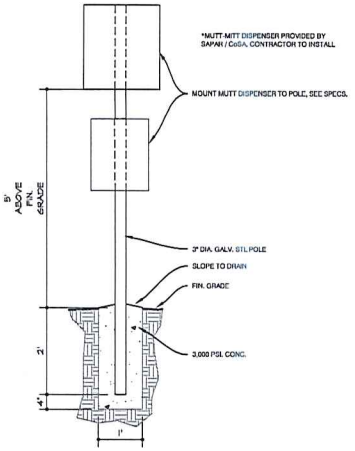
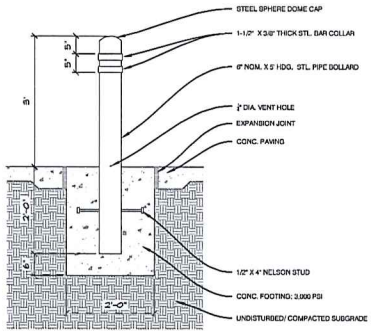
Date:	Revisions/Submissions

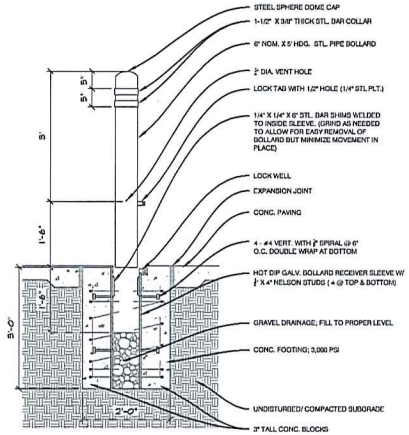


1 L3.4 **MUTT MIT DISPENSER**
NTS



NOTES:
1. BOLLARD TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION AND PAINTED
2. ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH
3. CONTRACTOR OPTION TO POUR FOOTING INTEGRAL WITH CONCRETE PAVING

2 L3.4 **BOLLARD - TYPE 1**
NTS



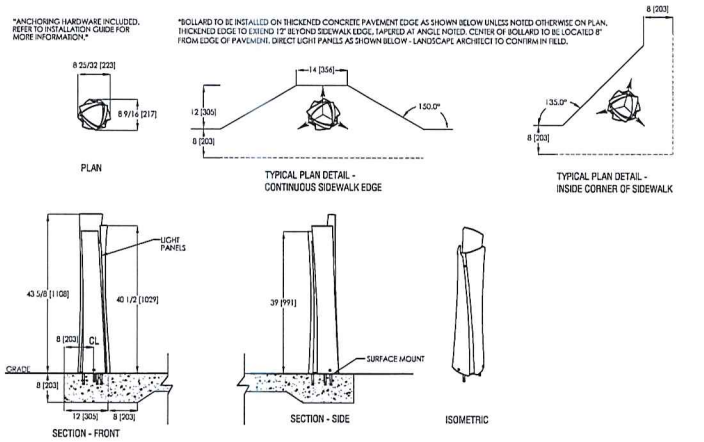
NOTES:
1. BOLLARD SLEEVE AND LOCKWELL TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION AND PAINTED
2. ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH
3. CONTRACTOR OPTION TO POUR FOOTING INTEGRAL WITH CONCRETE PAVING

3 L3.4 **BOLLARD - TYPE 2**
NTS

Guide — Bollard, surface mount, lighted

"ANCHORING HARDWARE INCLUDED. REFER TO INSTALLATION GUIDE FOR MORE INFORMATION."

"BOLLARD TO BE INSTALLED ON THICKENED CONCRETE PAVEMENT EDGE AS SHOWN BELOW UNLESS NOTED OTHERWISE ON PLAN. THICKENED EDGE TO EXTEND 12" BEYOND SIDEWALK EDGE, TAPERED AT ANGLE NOTED. CENTER OF BOLLARD TO BE LOCATED 8" FROM EDGE OF PAVEMENT. DIRECT LIGHT PANELS AS SHOWN BELOW - LANDSCAPE ARCHITECT TO CONFIRM IN FIELD.



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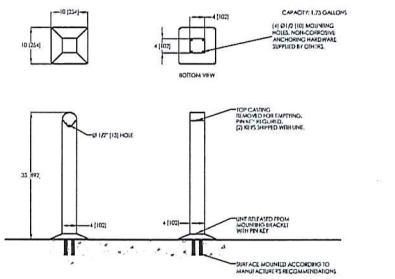
landscapeforms Drawing: AE200-02 Dimensions are in inches [mm] U.S. Patent No. 7,040,478

NOTE: INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTION.

4 L3.4 **BOLLARD W/ LED (9 UNITS)**
NTS

Grenadier™ Ash Urn, Removable
Product Drawing
www.landscapeforms.com
Date: 10/30/2012
Ph: 800.521.2546



landscapeforms Drawing: G0185-02 Dimensions are in inches [mm] U.S. Patent No. D.505,789

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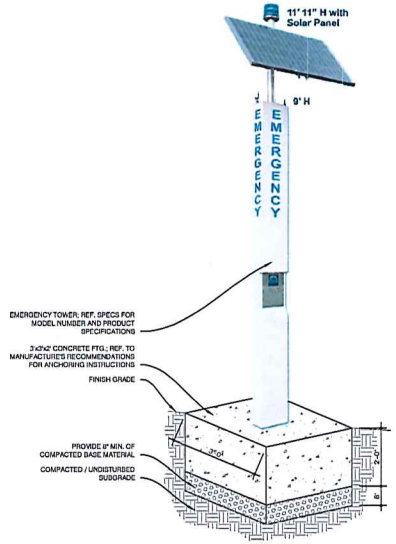
NOTE: INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTION.

5 L3.4 **ASH URN (2 UNITS)**
NTS



6 L3.4 **EMERGENCY TOWER (1 UNIT)**
NTS

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SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

HARDSCAPE DETAILS

L / 3.4

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L3-0_Details.DWG

CAMACHO-HERNANDEZ & ASSOCIATES, LLC
Engineering - Planning - Transportation - Related Services 418
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FIRM NUMBER: F-8478

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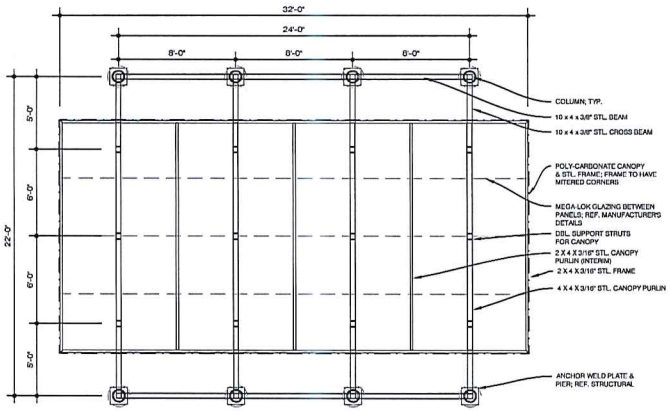
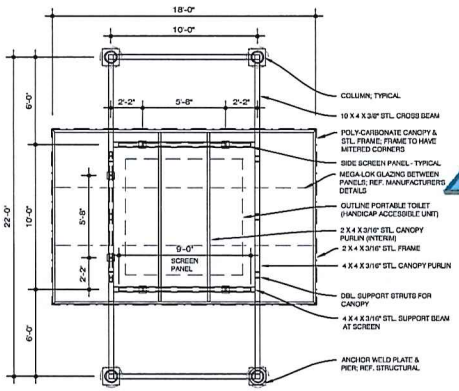
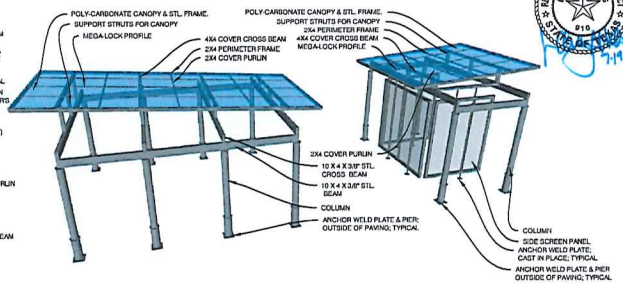


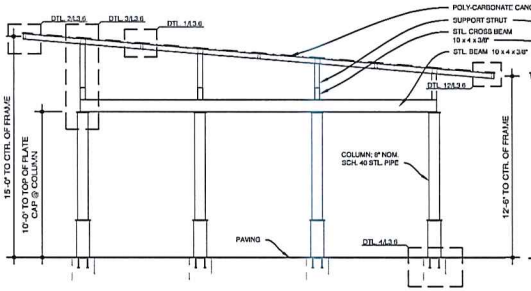
1 L3.5 **PICNIC SHADE STRUCTURE - PLAN**
1/4" = 1'-0"



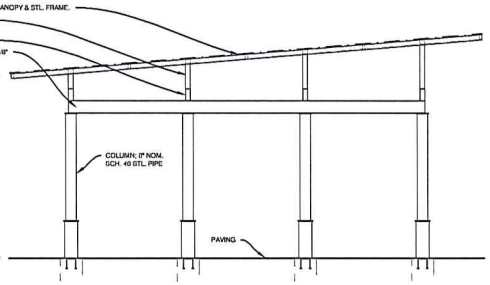
2 L3.5 **RESTROOM ENCLOSURE - PLAN**
1/4" = 1'-0"



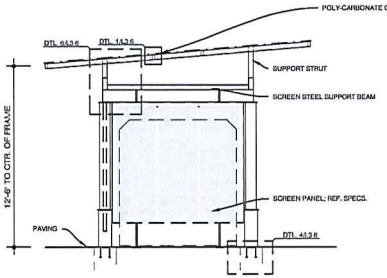
3 L3.5 **SHADE STRUCTURE MODEL CONCEPT**
NTS



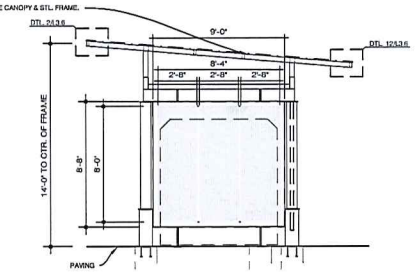
4 L3.5 **PICNIC - WEST ELEVATION**
1/4" = 1'-0"



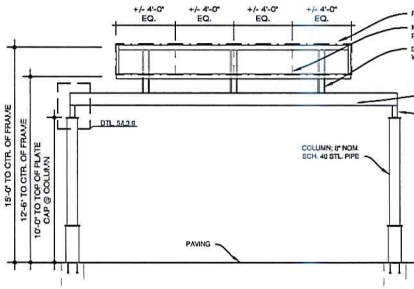
5 L3.5 **PICNIC - EAST ELEVATION**
1/4" = 1'-0"



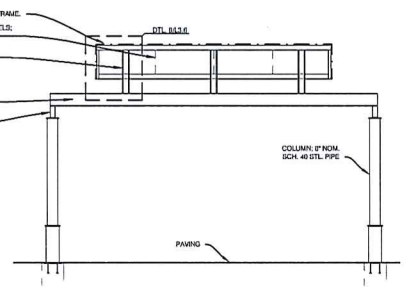
6 L3.5 **RESTROOM - WEST ELEVATION**
1/4" = 1'-0"



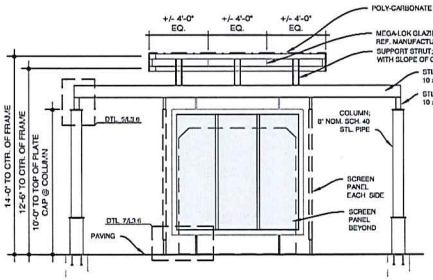
7 L3.5 **RESTROOM - EAST ELEVATION**
1/4" = 1'-0"



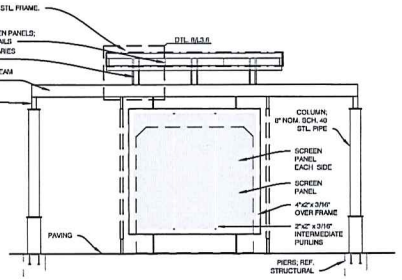
8 L3.5 **PICNIC - SOUTH ELEVATION**
1/4" = 1'-0"



9 L3.5 **PICNIC - NORTH ELEVATION**
1/4" = 1'-0"



10 L3.5 **RESTROOM - SOUTH ELEVATION**
1/4" = 1'-0"



11 L3.5 **RESTROOM - NORTH ELEVATION**
1/4" = 1'-0"

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LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS
SHADE STRUCTURE PLANS AND DETAILS

L / 3.5

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L3-5_Details.DWG

CITY OF SAN ANTONIO - UDC V-3-35-523-e (05/06/2010) 2/11/2013 13:51

Tree Canopy Cover

	TOTAL PROJECT AREA	226,166 SF
25%	CANOPY REQUIRED	56,291.50 SF

CANOPY MET WITH PRESERVED TREES - REFERENCE TP SERIES

QTY.	SHADE VALUE	PERCENT	SQFT	SPECIES	TAG #
-	1,200	100%	-		
-	875	100%			
-	550	100%			
-	275	100%	-		
-					

	TOTAL PRESERVED CANOPY	SF
	TOTAL PRESERVED CANOPY	0.0%

CANOPY MET WITH PROPOSED TREE PLANTINGS - REFERENCE L SERIES

QTY.	SHADE VALUE	PERCENT	SQFT	SPECIES	NOTES
	1,200	90%	-		
56	875	90%	44,100	CEDAR ELM, LIVE OAK, HACKBERRY	REF. 2/L4.1
19	550	90%	9,405	MESQUITE	REF. 2/L4.1
71	275	90%	17,573	DESERT WILLOW, POSSUMHAW HOLLY, PALO VERDE, TEXAS MTN. LAUREL	REF. 2/L4.1
-					

	TOTAL PROPOSED CANOPY	71,078 SF
	TOTAL PROPOSED CANOPY	31.6%
	PERCENT CHANGE	100.2%
	TOTAL CANOPY PROVIDED	71,078 SF
	TOTAL CANOPY PROVIDED	31.6%

CITY OF SAN ANTONO - UDC V-3-35-511-c-7 (05/06/2010) 1/31/2013 11:21

Parking Lot Shading

	TOTAL PARKING LOT AREA	6,641 SF
	TOTAL CANOPY REQUIRED	1,710 SF

SHADING MET WITH PRESERVED TREES - REFERENCE TP SERIES

QTY.	SHADE VALUE	PERCENT	SQFT	SPECIES	TAG
-	1,200	100%	-		
-	875	100%	-		
-	550	100%	-		
-	275	100%			
-					

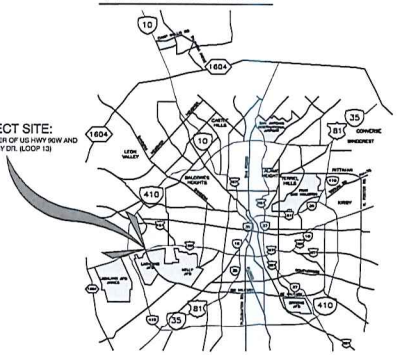
	TOTAL PRESERVED CANOPY	SF
	TOTAL PRESERVED CANOPY	0.0%

SHADING MET WITH PROPOSED TREE PLANTINGS - REFERENCE L SERIES

QTY.	SHADE VALUE	PERCENT	SQFT	SPECIES	NOTES
	1,200	75%	-		
1	875	75%	656	Live Oak	Ref. 2/L4.1
1	550	75%	413	MESQUITE	Ref. 2/L4.1
5	275	75%	1,031	PALO VERDE	Ref. 2/L4.1
	1,200	50%	-		
1	875	50%	438	Cedar Elm	Ref. 2/L4.1
	550	50%	-		
-	275	50%	-		
-					

	TOTAL PROPOSED CANOPY	2,538 SF
	TOTAL PROPOSED CANOPY	37.1%
	FINAL TREE CANOPY COVER	2,538 SF
	FINAL TREE CANOPY COVER	37.1%

VICINITY MAP



1 L4.0 **OVERALL PLANTING KEY PLAN**
1" = 40'-0"

CITY OF SAN ANTONO - UDC V-3-35-511-e (05/06/2010) 1/31/2013 19:42

Landscape Ordinance

TOTAL ELECTIVE POINTS REQUIRED	25 PTS
TOTAL ELECTIVE POINTS ACHIEVED	26 PTS

PRESERVATION OF EXISTING TREES UDC V-3-35-511-e-2	POSSIBLE POINTS	40 PTS
	EARNED POINTS	- PTS
SCREENING OF SURFACE PARKING UDC V-3-35-511-e-3	POSSIBLE POINTS	25 PTS
	EARNED POINTS	- PTS
PARKING LOT SHADING UDC V-3-35-511-e-4	POSSIBLE POINTS	35 PTS
	EARNED POINTS	26 PTS
STREET TREES UDC V-3-35-511-e-5	POSSIBLE POINTS	25 PTS
	EARNED POINTS	- PTS
UNDERSTORY PRESERVATION UDC V-3-35-511-e-6	POSSIBLE POINTS	15 PTS
	EARNED POINTS	- PTS
INFILL / RETROFIT UDC V-3-35-511-e-7	POSSIBLE POINTS	25 PTS
	EARNED POINTS	- PTS

PLANTING GENERAL NOTES

1. THE PROJECT MANUAL IS A LEGAL PART OF THE SET OF CONSTRUCTION DRAWINGS AND AS SUCH SHALL BE PRESENT WITH THE SET OF CONSTRUCTION DRAWINGS ON THE SITE AT ALL TIMES.
2. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH THE SPECIFICATIONS AND ALL SUBMITTAL REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE LANDSCAPE 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/REPAIR WORK AS REQUIRED FOR APPROVAL AT THE COST TO THE CONTRACTOR. LANDSCAPE CONTRACTOR IS TO INFORM LANDSCAPE ARCHITECT OF THE START DATE OF WORK.
3. DO NOT WILLINGLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTION AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
5. IF CONFLICTS ARISE BETWEEN SIZE OF AREAS AND PLANS, CONTRACTOR IS TO CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE THE MATERIALS.
6. SEE SPECIFICATIONS FOR PLANTING REQUIREMENTS, MATERIALS AND EXECUTION.
7. REFER TO HARDSCAPE PLANS FOR LOW WALL, BOULDER, AGGREGATE AND BIORETENTION PLACEMENT.
8. PLANTING DETAILS: REFER TO SHEETS L2.4 FOR LANDSCAPE PLANTING RELATED DETAILS.
9. STAKING OF ALL TREES & PLANTING BEDS TO BE APPROVED BY LANDSCAPE ARCHITECT BEFORE PLANTING.
10. PLANT SCHEDULE: REFER TO SHEET L2.3 FOR PLANT SCHEDULE.
11. CONTRACTOR TO CONFIRM LOCATIONS OF TREES AT CORNERS OF INTERSECTIONS OF STREET(S) & CAMPUS DRIVE(S) ARE PLACED OUTSIDE OF CLEAR VISION AREA AS DEFINED BY CITY OF SAN ANTONIO TRAFFIC ENGINEERING DEPT.
12. ALL AREAS NOT IRRIGATED WITH THE AUTOMATIC IRRIGATION SYSTEM ARE TO BE WATERED BY CONTRACTOR WITH TEMPORARY IRRIGATION FOR ESTABLISHMENT THROUGH FINAL ACCEPTANCE OF TURF AREAS.
13. ALL NEW TREES LOCATED ALONG EDGES OF HARDSCAPE ELEMENT (RETAINING WALLS, CONCRETE WALKS AND ASPHALT PAVING/ CONCRETE CURB) ARE TO BE SET A MINIMUM OF 3'-0" FROM EDGE OF ELEMENT TO CENTER OF TREE TRUNK; UNLESS OTHERWISE NOTED.
14. SLOPES IN SEEDED AREAS WITH INCLINE BETWEEN 4:1 AND 3:1 ARE TO BE STABILIZED WITH EROSION CONTROL BLANKET OR SOIL STABILIZER PRODUCT/FLEXIBLE GROWTH MEDIUM. LOCATIONS SHALL BE CONFIRMED BY CONTRACTOR IN FIELD.
15. ALL SLOPES 3:1 AND STEEPER ARE TO BE STABILIZED WITH SOLID SOD SECURED TO SLOPE WITH WOOD STAKES OR BIODEGRADABLE PINS. LOCATIONS SHALL BE CONFIRMED BY CONTRACTOR IN FIELD.
16. SOD INSTALLATION TO EXTEND 10'-0" BEYOND TOP OF SLOPE.
17. SLOPED HYDROMULCH SEEDING TO EXTEND 10'-0" BEYOND TOP OF SLOPE.
18. REFER TO SPECIFICATIONS FOR MAINTENANCE REQUIREMENTS DURING ESTABLISHMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE A MINIMUM OF 90 DAYS AFTER DATE OF FINAL ACCEPTANCE.
19. COMPLETE PLACEMENT OF EROSION CONTROL WATTLES WITHIN SEEDED AREAS AFTER FINISH GRADING PRIOR TO SEEDING; REF SPEC. SECTION 32 93 19-6, 3.06, B.

PLANTING NOTES(◇Keyed on Plan)

1. COORDINATE THE LIMIT OF REVEGETATION/ TURF WITH LIMIT OF GRADING/ DISTURBANCE.
2. COBBLE WITHIN LANDSCAPE; REF. DTL. 10/L4.4
3. CHOPPED LIMESTONE EDGER; REF. DTL. 7/L4.4
4. TRAIN VINE TO SCULPTURE COLUMNS
5. TREES TO BE UTILIZED TOWARDS PARKING LOT SHADING
6. 2'x3'x2' LIMESTONE ACCENT BOULDER; REF. DTL. 8/L4.4 FOR PLACEMENT
7. COMPLETE PLACEMENT OF EROSION CONTROL WATTLES AT DMP-1, DMP-2 & DMP-3; REF SPEC. SECTION 32 92 19-6, 3.06, B.

LEGEND

AREA OF PARKING LOT SHADING

AREA OF CONSTRUCTION STAGING

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OFFICE: (210) 341-6200 FAX: (210) 341-6300
FIRM NUMBER: F-8478

RVK Landscape Architects

TCI

LARRY A. HACK STATE OF TEXAS REGISTERED LANDSCAPE ARCHITECT 910 7-19-16

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Date:	Revisions/Submissions

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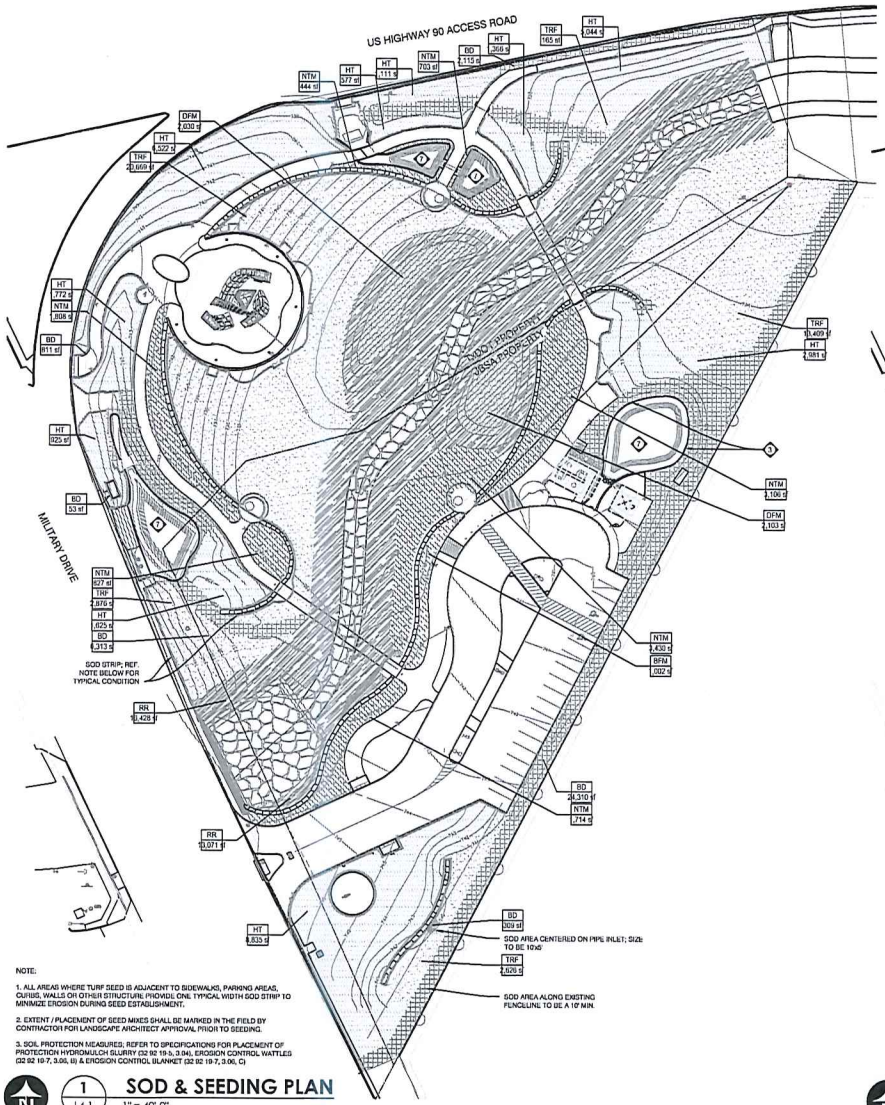
TRANSPORTATION & CAPITAL IMPROVEMENTS
VERTICAL DIVISION
MUNICIPAL PLAZA BUILDING 114 W. COMMERCE
P.O. BOX 839966 SAN ANTONIO, TX 78283-3966
TEL. (210) 207-2579 FAX (210) 207-2197

LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

OVERALL PLANTING KEY PLAN

L / 4.0

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L4-0.DWG



NOTE:

1. ALL AREAS WHERE TURF SEED IS ADJACENT TO SIDEWALKS, PARKING AREAS, CURBS, WALLS OR OTHER STRUCTURE PROVIDE ONE TYPICAL WIDTH SOD STRIP TO MINIMIZE EROSION DURING SEED ESTABLISHMENT.

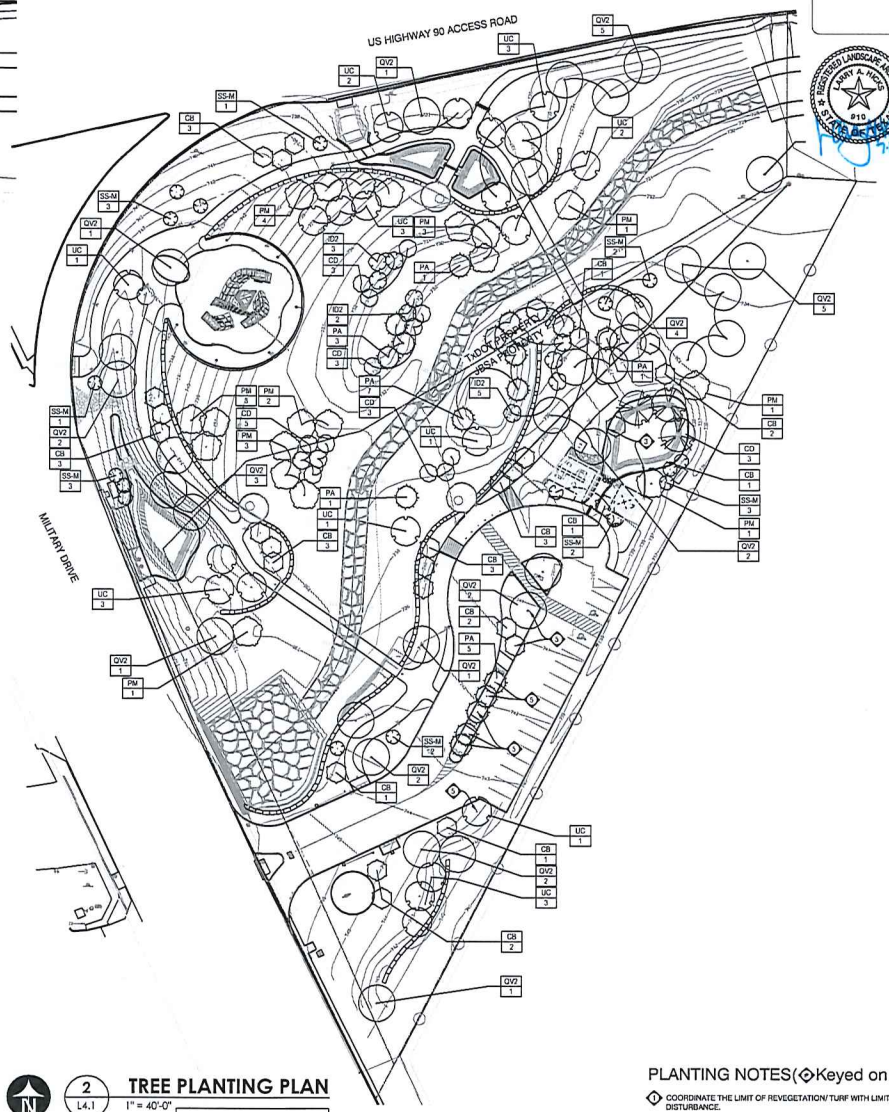
2. EXTENT / PLACEMENT OF SEED MIXES SHALL BE MARKED IN THE FIELD BY CONTRACTOR FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO SEEDING.

3. SOIL PROTECTION MEASURES; REFER TO SPECIFICATIONS FOR PLACEMENT OF PROTECTION HYDROMULCH SLURRY (32 92 19-b, 3.04), EROSION CONTROL WATTLES (32 92 19-7, 3.06, b) & EROSION CONTROL BLANKET (32 92 19-7, 3.06, C)

1 / L4.1 SOD & SEEDING PLAN

1" = 40'-0"

NOTE: FOR PLANT SCHEDULE & SYMBOLS LEGEND REFER TO SHEET L4.3



2 / L4.1 TREE PLANTING PLAN

1" = 40'-0"

NOTE: FOR PLANT SCHEDULE & SYMBOLS LEGEND REFER TO SHEET L4.3

PLANTING NOTES(◇Keyed on Plan)

1. COORDINATE THE LIMIT OF REVEGETATION/ TURF WITH LIMIT OF GRADING/ DISTURBANCE.
2. COBBLE WITHIN LANDSCAPE; REF. DTL. 10/L4.4
3. CHOPPED LIMESTONE EDGER; REF. DTL. 7/L4.4
4. TRAIN VINE TO SCULPTURE COLUMNS
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6. 2'x3'x2' LIMESTONE ACCENT BOULDER; REF. DTL. 8/L4.4 FOR PLACEMENT
7. COMPLETE PLACEMENT OF EROSION CONTROL WATTLES AT BMP-1, BMP-2 & BMP-3; REF SPEC. SECTION 32 92 19-6, 3.06, B.

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FIRM NUMBER: F-8478

RVK Landscape Architects

REGISTERED LANDSCAPE ARCHITECT LARRY A. HACK #10 STATE OF TEXAS 7-19-16

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LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

SEEDING AND TREE PLANTING PLANS

L / 4.1

Designed By:	LAH
Drawn By:	RJR / KJB
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	14161_L4-0.DWG

MATERIALS SCHEDULE

SIGN ELEMENTS

KEY	DESCRIPTION / MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
S.1	1" THICK STEEL PLATE SIGN PANEL	BLUE	TO BE DETERMINED	COMPANY: SCHROEDER ART CONTACT: GEORGE SCHROEDER PHONE: 210-601-2508 EMAIL: george@schroederart.com	• REFERENCE STRUCTURAL DRAWINGS FOR STEEL NOTES & SPECIFICATIONS • FINAL COLOR SELECTION TO BE MADE FROM ACTUAL COLOR SAMPLES
S.2	1/2" THICK PIN MOUNTED GRAPHICS W/ 1/4" STANDOFF FROM SIGN PANEL NOTE: ADDRESS NUMBERS ARE 1" THICK W/ 1/2" STANDOFF FROM PROP. BLADES	ALUMINUM	POLISHED	COMPANY: SCHROEDER ART CONTACT: GEORGE SCHROEDER PHONE: 210-601-2508 EMAIL: george@schroederart.com	• CNC WATER JET OR LASER CUT LETTERS • TAHOMA REGULAR FONT AT TEXT HEIGHTS SPECIFIED ON PLANS
S.3	STEEL PROPELLER BLADE MONUMENT 18 GAUGE STANDARD SHEET METAL	SILVER	TO BE DETERMINED	COMPANY: SCHROEDER ART CONTACT: GEORGE SCHROEDER PHONE: 210-601-2508 EMAIL: george@schroederart.com	• REFERENCE STRUCTURAL DRAWINGS FOR STEEL NOTES & SPECIFICATIONS • FINAL COLOR SELECTION TO BE MADE FROM ACTUAL COLOR SAMPLES
S.4	8 5/8"Ø HSS PIPE	N/A	N/A	N/A	• REFERENCE STRUCTURAL DRAWINGS FOR STEEL NOTES, SPECIFICATIONS & STRUCTURAL FRAMING DETAILS
S.5	1/4" THICK STEEL PLATE PIPE CAP	N/A	N/A	N/A	• REFERENCE STRUCTURAL DRAWINGS FOR STEEL NOTES, SPECIFICATIONS & STRUCTURAL FRAMING DETAILS
S.6	PL 12"X12"X3/4" BEARING PLATE	N/A	N/A	N/A	• REFERENCE STRUCTURAL DRAWINGS FOR STEEL NOTES, SPECIFICATIONS & STRUCTURAL FRAMING DETAILS
S.7	3/8" THICK STEEL PLATE STIFFENING WEBS AT BEARING PLATE	N/A	N/A	N/A	• REFERENCE STRUCTURAL DRAWINGS FOR STEEL NOTES, SPECIFICATIONS & STRUCTURAL FRAMING DETAILS
S.8	INTERNAL WAFFLE STRUCTURE FOR PROPELLER BLADE MONUMENT 14 GAUGE STANDARD SHEET METAL	N/A	N/A	COMPANY: SCHROEDER ART CONTACT: GEORGE SCHROEDER PHONE: 210-601-2508 EMAIL: george@schroederart.com	• REFERENCE STRUCTURAL DRAWINGS FOR STEEL NOTES & SPECIFICATIONS • WAFFLE STRUCTURE RIBS SHALL BE NOTCHED AT INTERLOCKING INTERSECTIONS
S.9	HOWARD W. PEAK GREENWAY TRAILS SYSTEM MEDALLION	TO BE DETERMINED	TO BE DETERMINED	CITY OF SAN ANTONIO	• IZONE PANEL TO BE PROVIDED BY OTHERS • ADDED AT A LATER DATE WHEN TRAIL SYSTEM IS TIED INTO LACKLAND GATEWAY

CORROSION PROTECTION

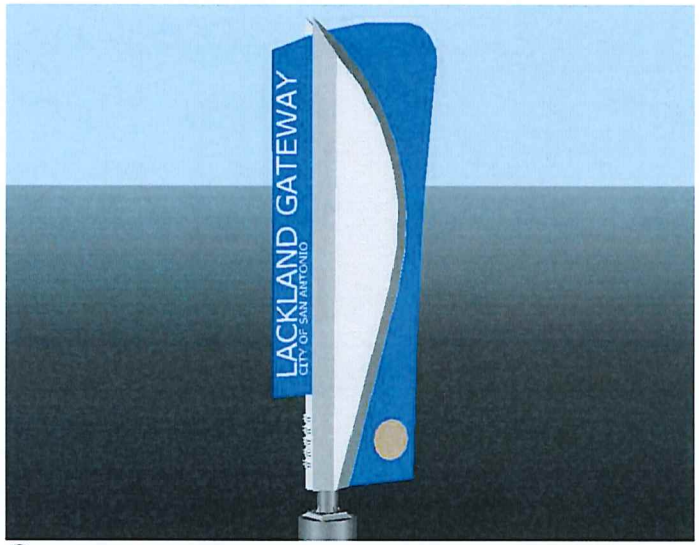
KEY	DESCRIPTION / MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
CP.1	METAL SURFACE PREPARATION SSPC-SP6 COMMERCIAL BLAST CLEANING	N/A	N/A	COMPANY: CCC GROUP, INC. CONTACT: LLOYD RESPONDEK PHONE: 210-862-1616 EMAIL: lloydr@cccgroupinc.com	• ANCHOR PROFILE SHALL BE ANGULAR WITH A 1.5 TO 2.0 MILS AS PER ASTM D 4417, METHOD C OR NACE STANDARD RP0287
CP.2	PRIME COAT TNEMEC SERIES 90G-1K97 TNEMEC-ZINC APPLIED AT 2.5 TO 3.5 DRY MILS	GREENISH-GRAY	N/A	COMPANY: CCC GROUP, INC. CONTACT: LLOYD RESPONDEK PHONE: 210-862-1616 EMAIL: lloydr@cccgroupinc.com	• PROVIDE MOCK UP OF CORROSION PROTECTION SYSTEM FOR APPROVAL BY LANDSCAPE ARCHITECT

PAINT

KEY	DESCRIPTION / MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
P.1	FIRST COAT TNEMEC SERIES 73 ENDURA-SHIELD APPLIED AT 3.0 TO 5.0 DRY MILS	REFER TO TNEMEC COLOR GUIDE	SEMI-GLOSS	COMPANY: SCHROEDER ART CONTACT: GEORGE SCHROEDER PHONE: 210-601-2508 EMAIL: george@schroederart.com	• REFER TO TNEMEC COLOR GUIDE USING COLOR SELECTIONS STATED ABOVE FOR SIGN PANEL & PROPELLER BLADE MONUMENT
P.2	SECOND COAT TNEMEC SERIES 1070 FLUORONAR APPLIED AT 2.0 TO 3.0 DRY MILS	REFER TO TNEMEC COLOR GUIDE	GLOSS	COMPANY: SCHROEDER ART CONTACT: GEORGE SCHROEDER PHONE: 210-601-2508 EMAIL: george@schroederart.com	• REFER TO TNEMEC COLOR GUIDE USING COLOR SELECTIONS STATED ABOVE FOR SIGN PANEL & PROPELLER BLADE MONUMENT • PROVIDE MOCK UP OF SELECTED COLORS FOR APPROVAL BY LANDSCAPE ARCHITECT

CONCRETE

KEY	DESCRIPTION / MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
C.1	24"Ø REINF. CONCRETE DRILLED PIER	N/A	N/A	N/A	• REFERENCE STRUCTURAL DRAWINGS FOR REINFORCED CONCRETE DRILLED PIER NOTES, DETAILS & SPECIFICATIONS



1 / LC 1.1 **LACKLAND CORRIDOR GATEWAY - WAYFINDING SIGN RENDERING**
NO SCALE

GENERAL LEGEND

ABBREVIATIONS

SYMBOL	DESCRIPTION
B.C.	BOTTOM OF CURB
B.P.	BOTTOM OF PIPE
B.O.C.	BACK OF CURB
L.O.C.	LIMITS OF CONSTRUCTION
B.W.	BOTTOM OF WALL
C.L.	CENTER LINE
E.J.	EXPANSION JOINT
H.P.	HIGH POINT
E.O.P.	EDGE OF PAVEMENT
N.I.C.	NOT IN CONTRACT
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
P.A.	PLANTING AREA
ESMT.	EASEMENT
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TANGENCY
R.O.W.	RIGHT OF WAY
T.D.	TOP OF DRAIN
F.H.	FIRE HYDRANT
T.C.	TOP OF CURB
T.F.	TOP OF FOOTING
S.S.	SANITARY SEWER
T.W.	TOP OF WALL
W.D.	WATER DEPTH
W.L.	WATER LEVEL
U.N.O.	UNLESS NOTED OTHERWISE
F.O.F.	FACE OF FINISH
C.L.P.	CENTER LINE OF PIPE

SYMBOLS & LINE TYPES

SYMBOL	DESCRIPTION
REF:	ENLARGEMENT AREA W/ CALLOUT
X / LS X.X	DETAIL CALLOUT
X.X | XXX	MATERIALS & FINISHES CALLOUT
X / LS X.X	SECTION CALLOUT
X / LS X.X	ELEVATION CALLOUT
XXXXX	SITEWORK LABEL
QTY-XXX	PLANTING LABEL
XXX	EXISTING TOPOGRAPHY-MINOR
XXX	EXISTING TOPOGRAPHY-MAJOR
XXX	PROPOSED TOPOGRAPHY-MINOR
XXX	PROPOSED TOPOGRAPHY-MAJOR
XXX.XX	PROPOSED SPOT ELEVATION
T.O. XXXX XXXX.XX	PROPOSED DATUM ELEVATION
X"	PIPE SIZE
	WATER FLOW / SWALE DIRECTION
M	ELECTRICAL METER
J	JUNCTION BOX
	CONDUIT
	HOME RUN
	SIGN LIGHT
	TREE OR SIGN BULLET UPLIGHT
	POLE LIGHT
	GFI ELECTRICAL OUTLET

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FIRM NUMBER: F-9478

7-19-16

MP STUDIO
701 BROADWAY STREET
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LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

MATERIALS SCHEDULE & LEGEND

LC / 1.1

Designed By:	LAH
Drawn By:	MDL
Date:	07/19/2016
Project No.:	WBS 23-01455
Filename:	16043-LC1-01.DWG

ATTACHMENT 04 –

Paint Samples

Leneta Form WB-T

TNEMEC

TNEMEC COMPANY INCORPORATED

tnemec.com 800-TNEMEC1

1071B2447
287C BRITE BLUE
FLUORONAR SEMI – GLOSS
REF: LACKLAND AFB

This custom display sample was produced under laboratory conditions and may not always represent the appearance of field applications.

Leneta Form WB-T

TNEMEC

TNEMEC COMPANY INCORPORATED

tnemec.com 800-TNEMEC1

1071A2663
7C COOL GRAY
FLUORONAR SEMI – GLOSS
REF: LACKLAND AFB

This custom display sample was produced under laboratory conditions and may not always represent the appearance of field applications.

Leneta Form WB-T

TNEMEC

TNEMEC COMPANY INCORPORATED

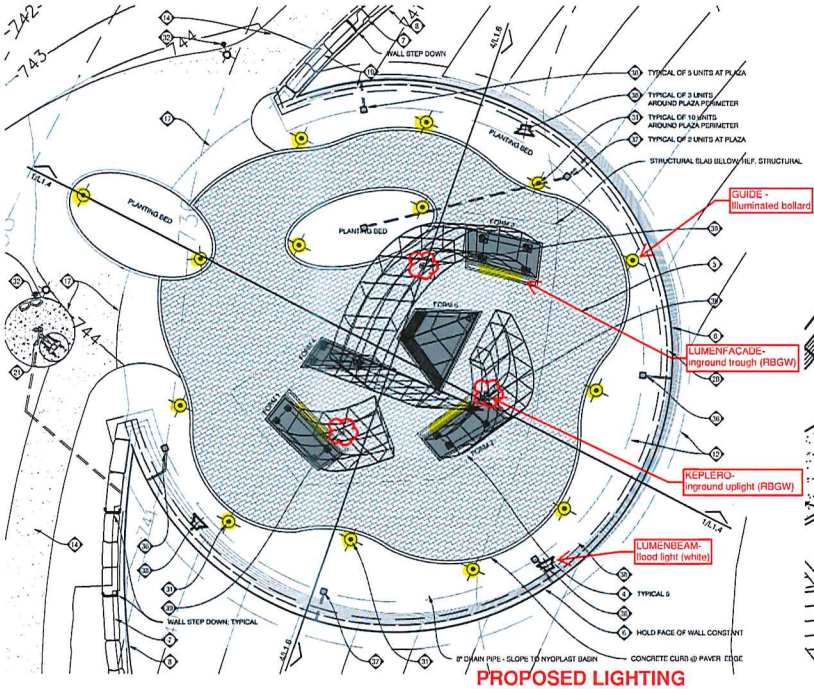
tnemec.com 800-TNEMEC1

1071A2028
877C SILVER
FLUORONAR SEMI – GLOSS
REF: LACKLAND AFB

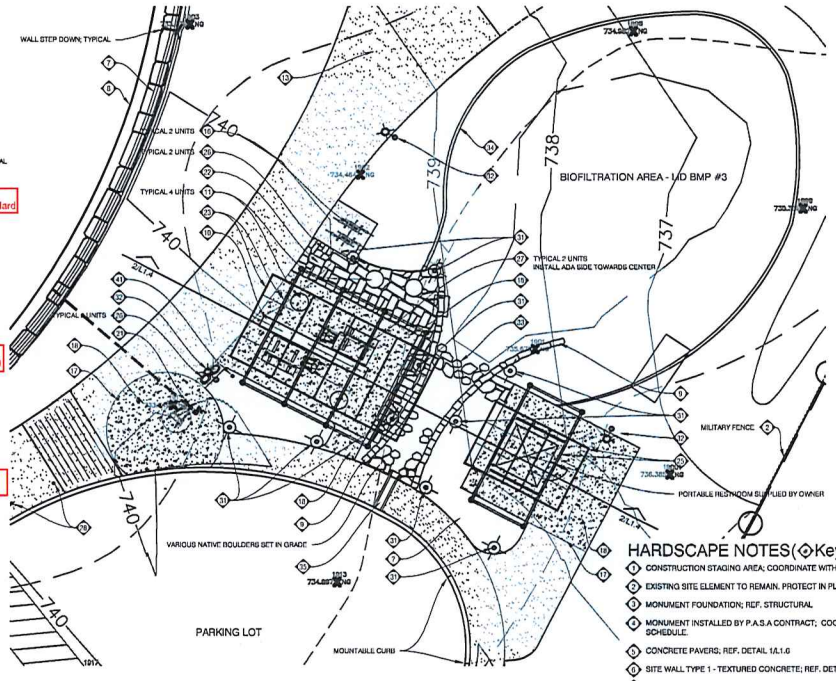
This custom display sample was produced under laboratory conditions and may not always represent the appearance of field applications.

ATTACHMENT 05 –

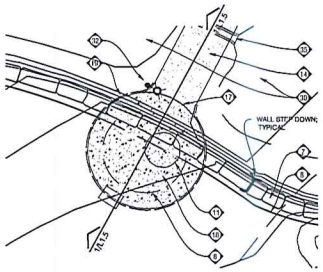
2016-06-09 PASA light submittal



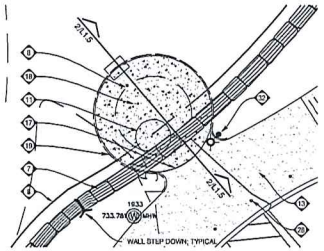
1 L1.2 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0"



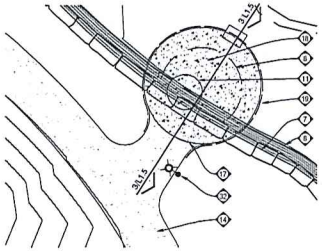
2 L1.2 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0"



3 L1.2 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0" VIEWING NODE 1



4 L1.2 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0" VIEWING NODE 2



5 L1.2 **HARDSCAPE PLAN ENLARGEMENT**
1" = 10'-0" VIEWING NODE 3

HARDSCAPE NOTES(◇Keyed on Plan)

1. CONSTRUCTION STAGING AREA; COORDINATE WITH OWNER & CIVIL ENGINEER FOR FINAL LOCATION
2. EXISTING SITE ELEMENT TO REMAIN. PROTECT IN PLACE
3. MONUMENT FOUNDATION; REF. STRUCTURAL
4. MONUMENT INSTALLED BY P.A.S.A CONTRACT; COORDINATE EQUIPMENT REQUIREMENTS AND SCHEDULE.
5. CONCRETE PAVERS; REF. DETAIL 1/L1.6
6. SITE WALL TYPE 1 - TEXTURED CONCRETE; REF. DETAIL 1/L1.7
7. SITE WALL TYPE 2 - BOULDER SLAB RETAINING WALL; REF. DETAIL 2/L1.7
8. APPROXIMATE TOE OF WALL
9. LOW STONE WALL; REF. DETAIL 5/L1.7
10. CONCRETE SEAT WALL - CAST IN PLACE WITH TEXTURED FORMLINER; REF. DETAIL 6/L1.7
11. CIRCULAR BENCH - CAST IN PLACE WITH TEXTURED FORMLINER; REF. DETAIL 7/L1.7
12. SITE WALL TYPE 1 - APPROXIMATE EDGE OF WALL FOOTING; REF. STRUCTURAL
13. GREENWAY TRAIL: 12' WIDE WITH THICKENED EDGE BOTH SIDES; REF. CIVIL
14. GATEWAY TRAIL: 8' WIDE WITH THICKENED EDGE BOTH SIDES; REF. CIVIL
15. PEDESTRIAN BRIDGE W/ CONC. ABUTMENTS; REF. STRUCTURAL FOR FOUNDATION; REF. CIVIL
16. BIKE RACK, REF. DETAIL 2/L1.9
17. CONCRETE EXPANSION JOINT; REF. CIVIL
18. CONCRETE FLATWORK WITH SPECIAL FINISH (ROCK SALT); REF. CIVIL
19. GUARDRAIL / HANDRAIL WITH LED; REF. DETAILS SHEET L1.11, ELECTRICAL
20. ACCESSIBLE PARKING SIGN; REF. DTL. 2/L3.0
21. PEDESTAL DRINKING FOUNTAIN W/ DRAIN LINE AND CHECK VALVE; REF. DETAIL 1/L1.8
22. SALVAGED CONCRETE SLAB SURFACING; REF. DTL. 3/L1.6
23. PICNIC AREA AND RESTROOM SHADE STRUCTURES; REF. SHEET L1.10
24. SUSPENDED SLAB / SIDEWALK BRIDGE; REF. DETAIL 4/1.8
25. PROTECTIVE RAIL (NO HANDRAIL); REF. SHEET L1.12
26. LITTER AND RECYCLING RECEPTACLES (ONE EACH); REF. DETAIL 3/L1.9
27. CONCRETE PICNIC TABLES EMBEDDED IN THICKENED PAD; REF. DETAIL 1/L1.9
28. TYPE 1 BOLLARD; REF. DTL. 5/L1.9
29. MANUAL SWING GATE & LOCK; REF. DTL. 2/L1.8
30. LID BMP; REF. LOW IMPACT DEVELOPMENT CONSULTANT
31. TYPE 2 BOLLARD W/ LIGHT FIXTURE; REF. DTL. 5/L1.9; REF. ELECTRICAL
32. AREA POLE TOP LIGHT FIXTURE; REF. ELECTRICAL
33. NATIVE BOULDER STEPPING STONES; REF. DTL. 8/L1.7
34. CHOPPED LIMESTONE STONE EDGE; REF. DTL. 4/L2.3
35. SIDEWALK BOX DRAIN; REF. CIVIL
36. 12" NYOPLAST IN-LINE DRAIN WITH DUCTILE IRON DOME GRATE; REF. DTL. 3/L1.8
37. 12" NYOPLAST DRAIN BASIN WITH DUCTILE IRON DOME GRATE; REF. DTL. 5/L1.8
38. HIGH OUTPUT MONUMENT FLOODLIGHT FIXTURE; REF. ELECTRICAL
39. HIGH OUTPUT BELOW GRADE MONUMENT FLOODLIGHT FIXTURE ; REF. ELECTRICAL
40. TYPE 3 BOLLARD - REMOVEABLE; REF. DTL. 5/L1.9
41. MUTT MITT; REF. DTL. 3/L-1.9
42. ASH URN; REF. DTL. 4/L-1.9

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Engineering - Planning - Transportation - Related Services 415
EMBASSY OAKS - SUITE 205 San Antonio, TX 78216
OFFICE: (210) 341-6200 FAX: (210) 341-6300
FIRM NUMBER: F-8478

RVK Landscape Architects

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Date:	Revisions/Submissions

95% Progress Review Set

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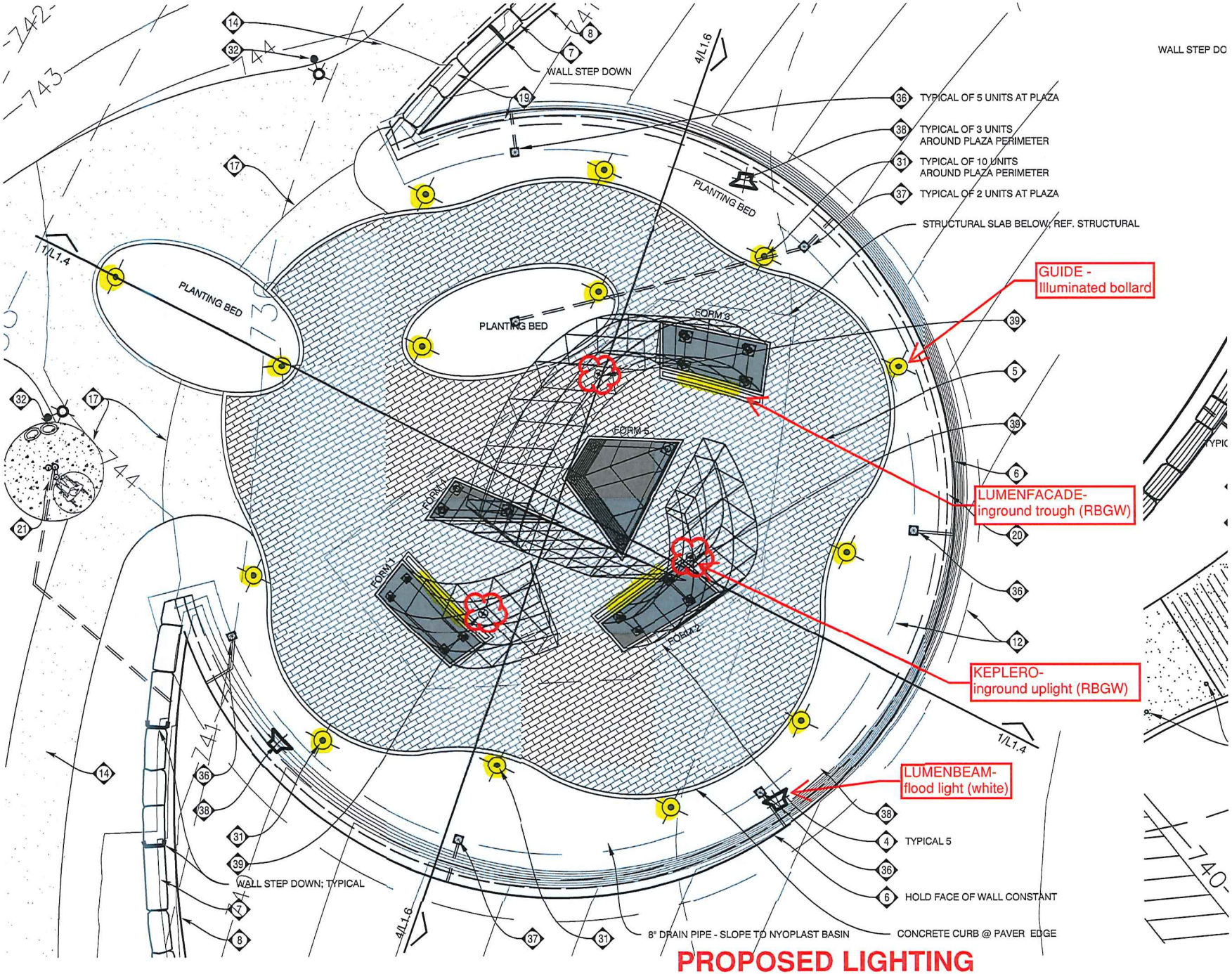
HORIZONTAL DIVISION
MUNICIPAL PLAZA BUILDING 114 W. COMMERCE
P.O. BOX 839966 SAN ANTONIO, TX 78283-3966
TEL (210) 207-2879 FAX (210) 207-2197

LACKLAND CORRIDOR GATEWAY
SW MILITARY & US HWY 90
SAN ANTONIO, TEXAS

HARDSCAPE PLAN ENLARGEMENT

L1.2

Designed By:	LAH / DAS
Drawn By:	DAS / RJR
Date:	05/05/2016
Project No.:	WBS 23-01455
Filename:	14161_L1-0 Hardscape.DWG



HARDSCAPE PLAN ENLARGEMENT

1 / L1.2

1" = 10'-0"

Specification Sheet

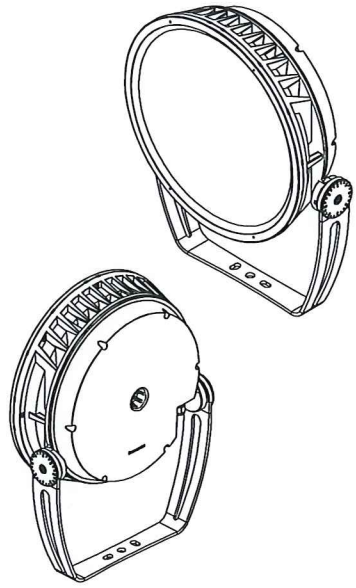
lumenbeam™

XLARGE
COLOR CHANGING

Client _____ **Project name** _____

Order# _____ **Type** _____ **Qty** _____

FEATURES AND BENEFITS



Physical :

- Low copper content high pressure die-cast aluminum housing
- Heavy aluminum formed yoke (standard yoke included)
- Stainless steel hardware
- Silicone sealing devices
- Clear tempered glass
- Patent pending dual chamber design for heat management and ease of maintenance
- Electro-statically applied polyester powder coat finish
- 16.33 kg / 36 lbs
- EPA: Front = 2.75 sq. ft./ 0.26 sq. m. Side = 1.17 sq. ft./ 0.12 sq. m.
- IP66
- IK09 rated
- Meets 3G ANSI C136.31 Vibration standard for bridge applications
- Corrosion-resistant coating for hostile environments*

Performance :

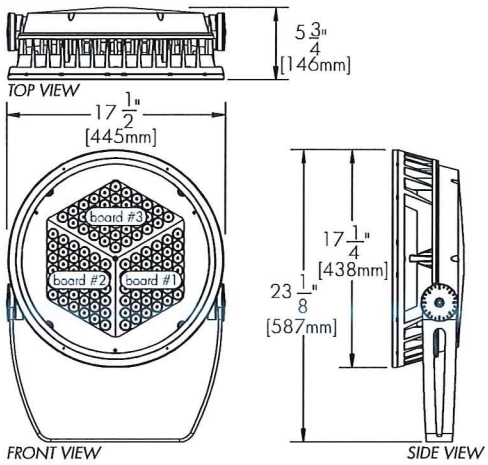
- Minimum 1fc (10,7 lux) @ 462 feet (140m) distance (RGB full white, 6° optic, RO version)
- Color mixing options: RGB (3 channels) or RGBW (4 channels)
- 6°, 10°, 20°, 40° or 60° optics available
- Lumen maintenance 120,000 hrs [L70 @ 25°C] (RO and HO RGB versions, RO RGBW version)
- Lumen maintenance 60,000 hrs [L70 @ 25°C] (HO RGBW version)
- RGB color mixing option: 108 LEDs (12x Red, 12x Green, 12x Blue per board)
- RGBW color mixing option: 72 LEDs (6x Red, 6x Green, 6x Blue, 6x White 4000K per board)
- Resolution per board or per fixture (configured with LumenID V3 software & DMX/RDM)
- Lumen measurements comply with LM - 79 - 08 standard
- Operating temperatures: -25° C to 50° C [-13F to 122F]

c UL us CE RoHS CIDET CERTIFICADO No.05884, 05885 RETILAP **IK09**

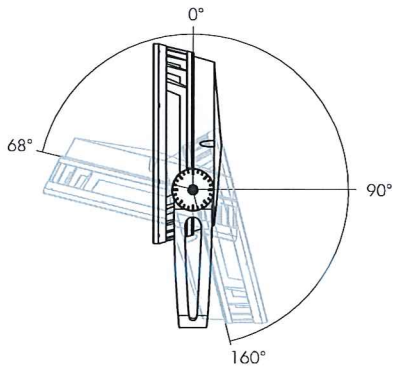
6° Optic (VN) (tested full white)		Delivered Output [lm]	Intensity [peak cd]
RO	RGB	5,185	213,484
	RGBW	5,033	292,725
HO	RGB	5,730	224,394
	RGBW	6,842	352,034

Electrical :

- Line voltage luminaire for 100 to 277V
- Power and data in 1 cable, 3ft/1 m cord (#16-5)
- Regular Output version: 140 watts / High Output version: 205 watts
- DMX/RDM enabled



Standard Yoke (as shown, included)



Standard Yoke Mounting
Adjustable Pivot Limits
(Adjustable in 6 degree increments)

* Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure!

26/AL/2016
S.Ayite - Rev.31

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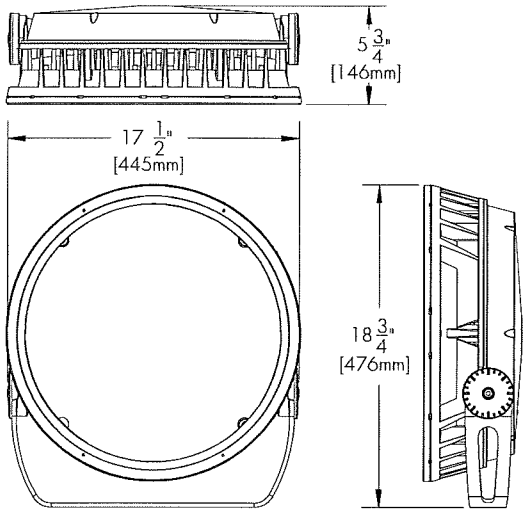
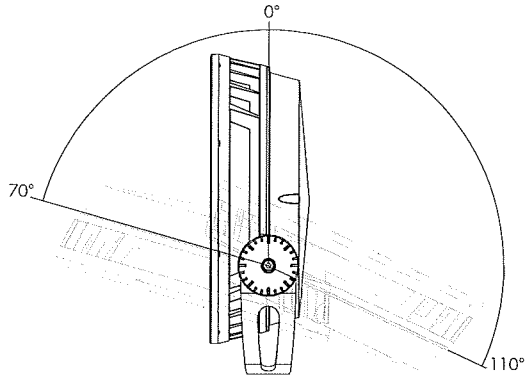
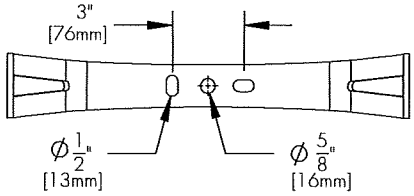
MOUNTING OPTION



SY
Short Yoke Mounting

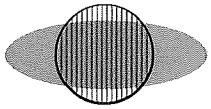


Short Yoke mounting
adjustable pivot limits
(Adjustable in 6 degree increments)



Standard and Short Yoke mounting
holes Pattern

OPTICAL OPTIONS
***Factory installed**



LSLH
Linear Spread Lens
Horizontal distribution
(not adjustable on site)

LSLV
Linear Spread Lens
Vertical distribution
(not adjustable on site)

Factory installed, available for 6° to 40° optics.
See Optical Accessories for field adjustable spread lens.

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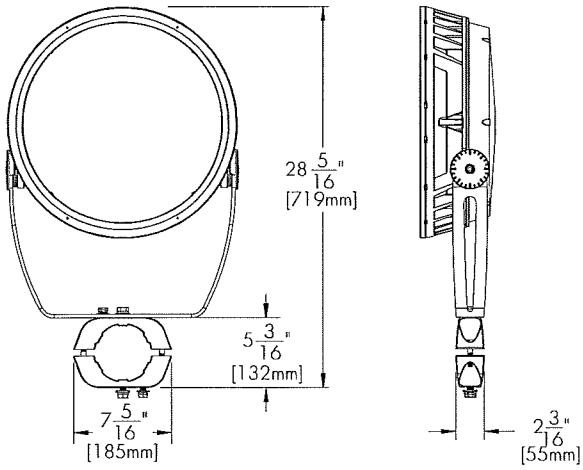
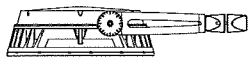
ACCESSORIES

Order separately

Mounting Accessories



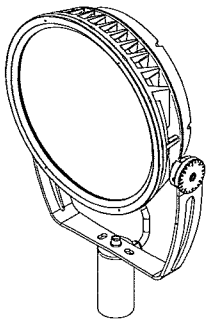
PM4 Round Pole Mounting Accessory Shown
*Consult factory for square pole section



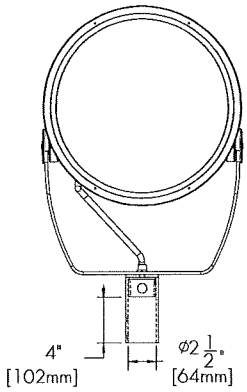
PM4-1, PM4.5-1, PM5-1
Round Pole Mounting accessory
single fixture

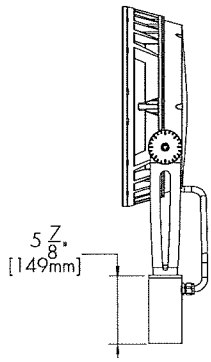
PM4-2, PM4.5-2, PM5-2
Round Pole Mounting accessory
twin fixtures

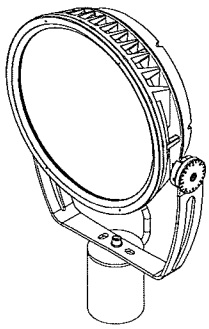
When **PM4-2, PM4.5-2 or PM5-2** are specified, one bracket assembly is supplied per 2 fixtures unless otherwise specified.



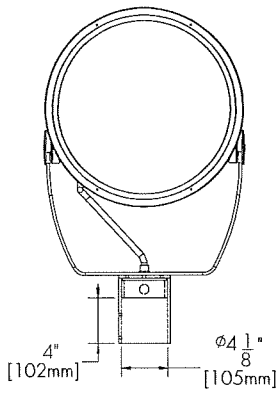
TN2
Tenon adapter
to fit on 2 3/8" O.D. tenon

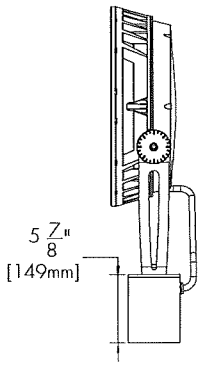






TN4
Tenon adapter
to fit on 4" O.D. tenon





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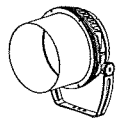
ACCESSORIES - continued
Order separately

Optical Accessories:

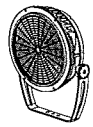
LBX-SN-___-BK Snoot accessory. Please specify desired exterior finish from the list below. Interior surface painted black.



LBX-SNW-___-BK Snoot Wide accessory. Please specify desired exterior finish from the list below. Interior surface painted black.

LBX-VS-___-BK Visor accessory. Please specify desired exterior finish from the list below. Interior surface painted black.

LBX-WG-___ Wire Guard accessory. Please specify desired exterior finish from the list below.



LBX-LSLA-___ Linear Spread Lens Adjustable accessory. Please specify desired exterior finish from the list below.

Available finishes:
BK - Black Sandtex
BRZ - Bronze Sandtex
SI - Silver Sandtex
WH - Smooth white, low gloss
BKTX - Textured black
BRZTX - Textured bronze, non-metallic
GRATX - Textured medium gray
GRNTX - Textured green
WHTX - Textured white
CC - Custom color and finish (please specify RAL color)[1]

Accessory combinations:

+	Snoot	Snoot Wide	Visor	Wire Guard
Snoot	NO	NO	NO	YES
Visor	NO	NO	NO	YES
Linear Spread Lens Adjustable	YES	YES	YES	NO

Accessory combinations must be ordered together on a single line.
Ex: A Snoot + Wire Guard combination order code is **LBX-SNWG-BK-BK.**

Notes:

[1] North American RAL colors specified with RAL number only are provided with a smooth/high-gloss finish. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.

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ACCESSORIES - continued
Order separately

Control Systems:

LTO2 Lumentouch is a wall mount DMX 512 controller keypad.

LCU Lumencue is a USB / mini SD DMX 512 controller.

LID LumenID is a diagnostic and addressing DMX 512 controller.
It must be specified on all DMX applications.
Refer to LID specification sheet for details.

LTN Lumentone is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

Control Boxes:

CBX DMX/RDM control box.
Up to six power and data outputs to fixtures or fixture runs.
Ethernet enabled option.
Refer to CBX specification sheet for details.

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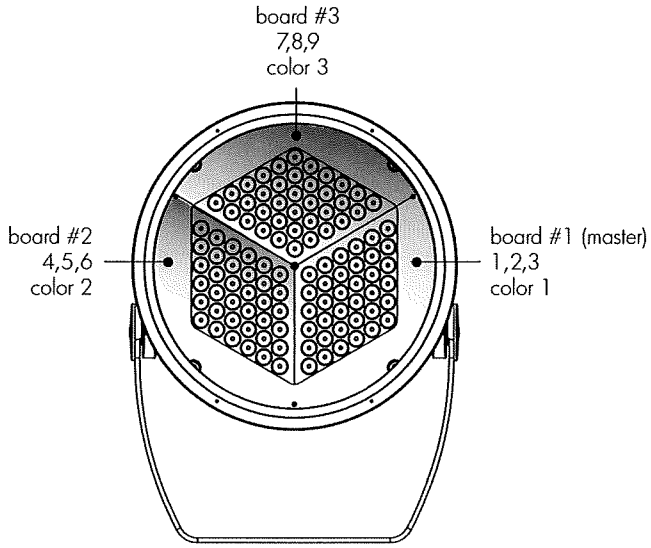
RESOLUTION DETAILS

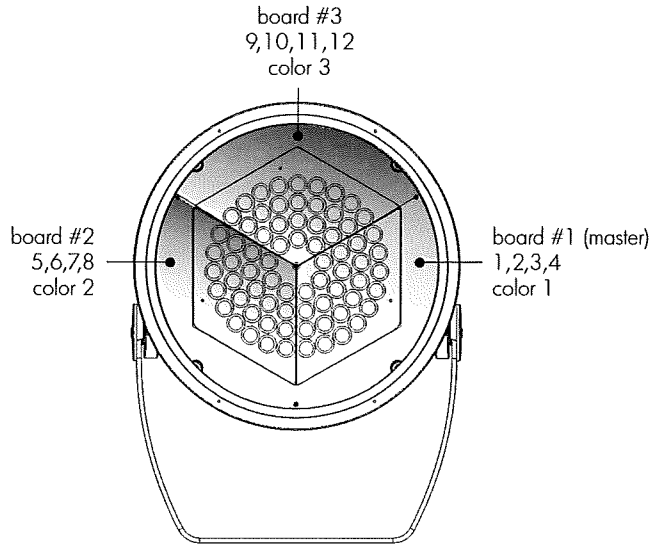
Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Resolution per board: each board is addressed independently

DMX ADDRESSES:



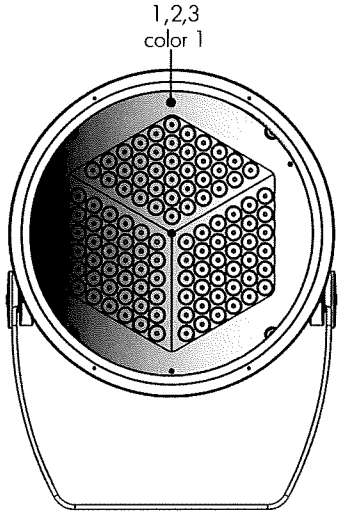
LBX RGB
COLOR MIXING OPTION



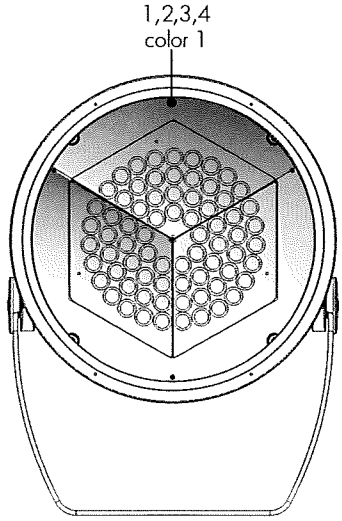
LBX RGBW
COLOR MIXING OPTION

Resolution per fixture: each fixture is addressed independently

DMX ADDRESSES:



LBX RGB
COLOR MIXING OPTION



LBX RGBW
COLOR MIXING OPTION

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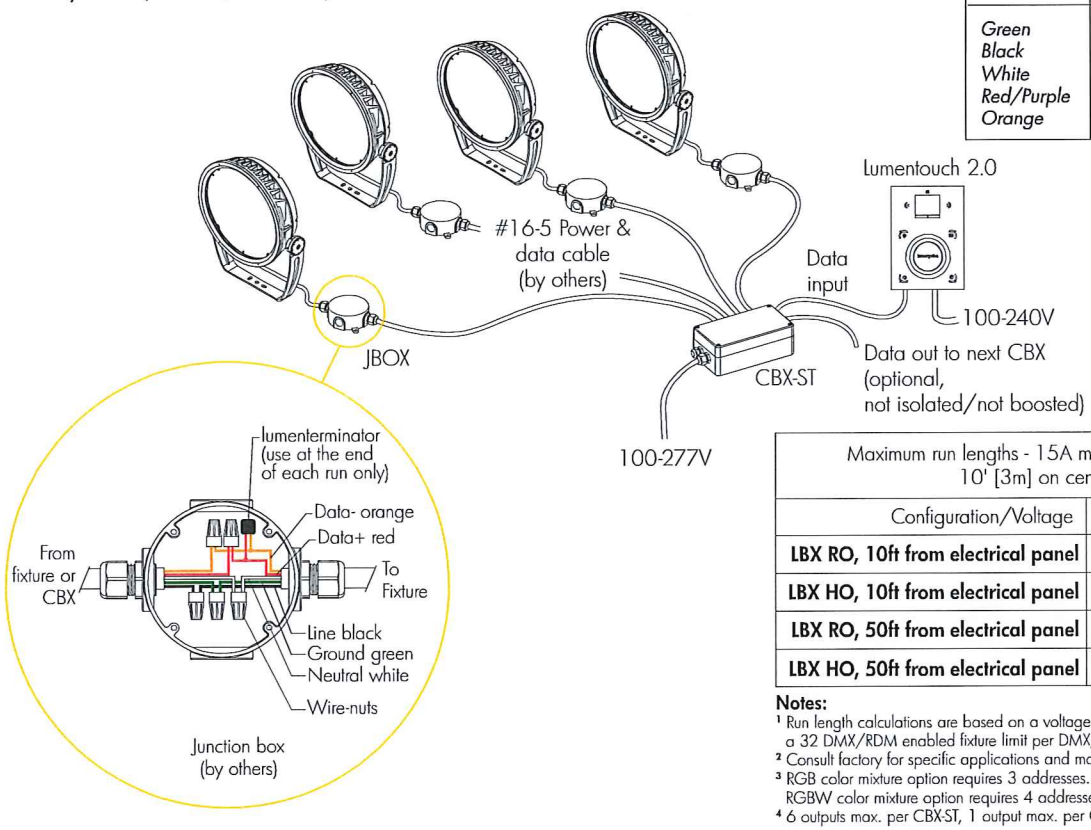
TYPICAL WIRING DIAGRAMS

Star Layout (DMX/RDM)

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -



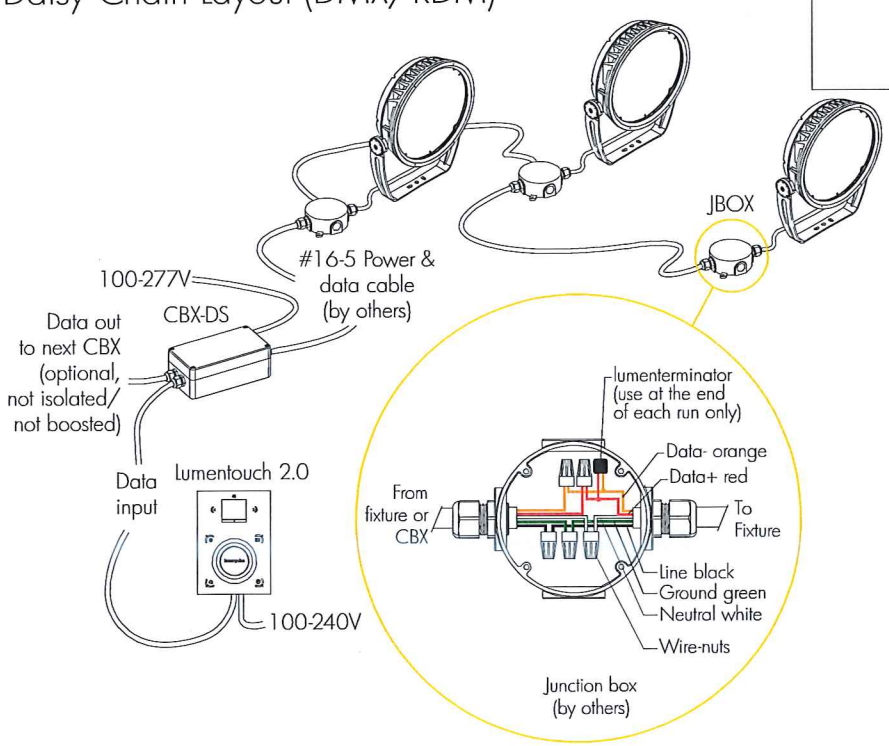
Maximum run lengths - 15A maximum, 16AWG cable, 10' [3m] on center spacing				
Configuration/Voltage	**120V**	**208V**	**240V**	**277V**
LBX RO, 10ft from electrical panel	9	16	17	19
LBX HO, 10ft from electrical panel	6	12	13	15
LBX RO, 50ft from electrical panel	8	12	14	16
LBX HO, 50ft from electrical panel	5	9	10	11

Notes:

[1] Run length calculations are based on a voltage drop of no more than 25V and a 32 DMX/RDM enabled fixture limit per DMX/RDM run.
[2] Consult factory for specific applications and max. cable length recommendations
[3] RGB color mixture option requires 3 addresses.
RGBW color mixture option requires 4 addresses.
[4] 6 outputs max. per CBX-ST, 1 output max. per CBX-DS.

DMX terminator is required at the end of each run to maintain data integrity.
(2x) DMX lumenterminator included per CBX-DS
(6x) DMX lumenterminator included per CBX-ST
See installation instructions for details.

Daisy Chain Layout (DMX/RDM)



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Specification Sheet

lumenbeam™

XLARGE
COLOR CHANGING

HOW TO ORDER

LBX Select:	Select:	Select:	Select:	Select:	Select:	DMX/RDM	Select:
1	2	3	Board 1/ Board 2/ Board 3 4	5	6	7	8

1 | Housing:

LBX RO - Lumenbeam™ XLarge, Regular Output, 140W
LBX HO - Lumenbeam™ XLarge, High Output, 205W

2 | Voltage:

100 - 100 volts
120 - 120 volts
208 - 208 volts
220 - 220 volts
240 - 240 volts
277 - 277 volts

3 | Colors and Color temperatures:

RGB - Additive red, green and blue
RGBW - Additive red, green, blue and white 4000K

4 | Optic (Please specify for each board):

VN - Very Narrow 6°

NS - Narrow Spot 10°

NF - Narrow Flood 20°

FL - Flood 40°

WFL - Wide Flood 60°
(cannot be combined with other optics)

5 | Optical Option:

LSLH - Linear Spread Lens Horizontal distribution[1]
LSLV - Linear Spread Lens Vertical distribution[1]

6 | Finish:

BK - Black Sandtex
BRZ - Bronze Sandtex
SI - Silver Sandtex
WH - Smooth white, low gloss
BKTX - Textured black
BRZTX - Textured bronze, non-metallic
GRATX - Textured medium gray
GRNTX - Textured green
WHTX - Textured white
CC - Custom color and finish (please specify RAL color)[2]

7 | Control:

DMX/RDM - DMX/RDM enabled[3]

8 | Option:

SY - Short Yoke
3GV - 3G ANSI C136.31 Vibration Rating
CRC - Corrosion-resistant coating for hostile environments
CE - CE (certification covers European Economic Area)

Notes:

[1] Factory installed, available for 6° to 40° optics. See Optical Accessories for field adjustable spread lens. [2] North American RAL colors specified with RAL number only are provided with a smooth/high-gloss finish. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary. [3] Fixtures set to by fixture resolution (consult the Resolution Details page for the number of DMX addresses).

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26/AL/2016
S.Ayite - Rev.31

Specification Sheet

lumenfacade™

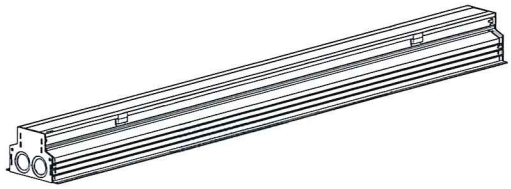
INGROUND
COLOR CHANGING

Client _____ **Project name** _____

Order# _____ **Type** _____ **Qty** _____

FEATURES AND BENEFITS

Physical :



- Aluminum optical chamber housing
- Anodized aluminum flush trim
- Polymer recycled PVC blockout housing
- Available in 1', 2', 3' or 4' sections
- Die cast aluminum end caps
- Stainless steel hardware
- Tempered glass lens
- Asymmetric wallwash, 10° x 10°, 10° x 60°, 30° x 60° or 60° x 60° optics
- 0°, 2.5°, 5° or 20° factory-set optical aiming options (not available for asymmetric wallwash)
- IP68 rated for up to 1' (30cm), not suitable for permanent immersion applications
- IK10 rated
- 1000kg max load, walk over only*

c UL us CE RoHS CIDET CERTIFICADO No.05884, 05885 RETILAP **IK10**

Performance :

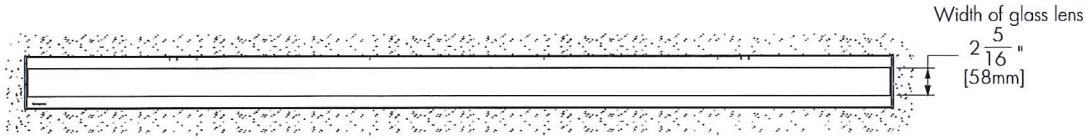
- Color mixing options: RGB (3 channels) or RGBW (4 channels)
- Lumen maintenance 80,000 hrs [L70 @ 25°C]
- Lumen maintenance 60,000 hrs [L70 @ 50°C]
- Lumen measurements comply with LM - 79 - 08 standard
- Resolution per foot or per fixture (configured with LumenID V3 software & DMX/RDM)
- Operating temperatures: -40° C to 50° C [-40F to 122F]

Performance summary

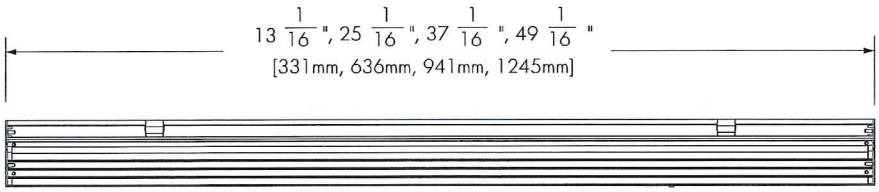
		Delivered Output [lm]	Intensity [peak cd]
2ft full white, WW, 0° tilt setting	RGB	767	1,159
	RGBW	1,024	1,560
4ft, 10°x60°, 2.5° tilt setting	RGB	1,435	4,525
	RGBW	1,775	4,477

Electrical :

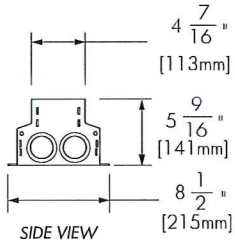
- Line voltage luminaire for 100 to 277V
- Power and data in 1 cable (#16-5)
- IP68 push-lock connectors
- 17.25W/ft
- DMX/RDM enabled



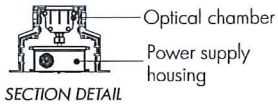
TOP VIEW



FRONT VIEW
*All dimensions are preliminary



SIDE VIEW



SECTION DETAIL

*To meet 1000kg walk over resistance requirements, cement must support 100% of the exterior surfaces of the blockout.

26/MA/2016
M.Samson - Rev.11

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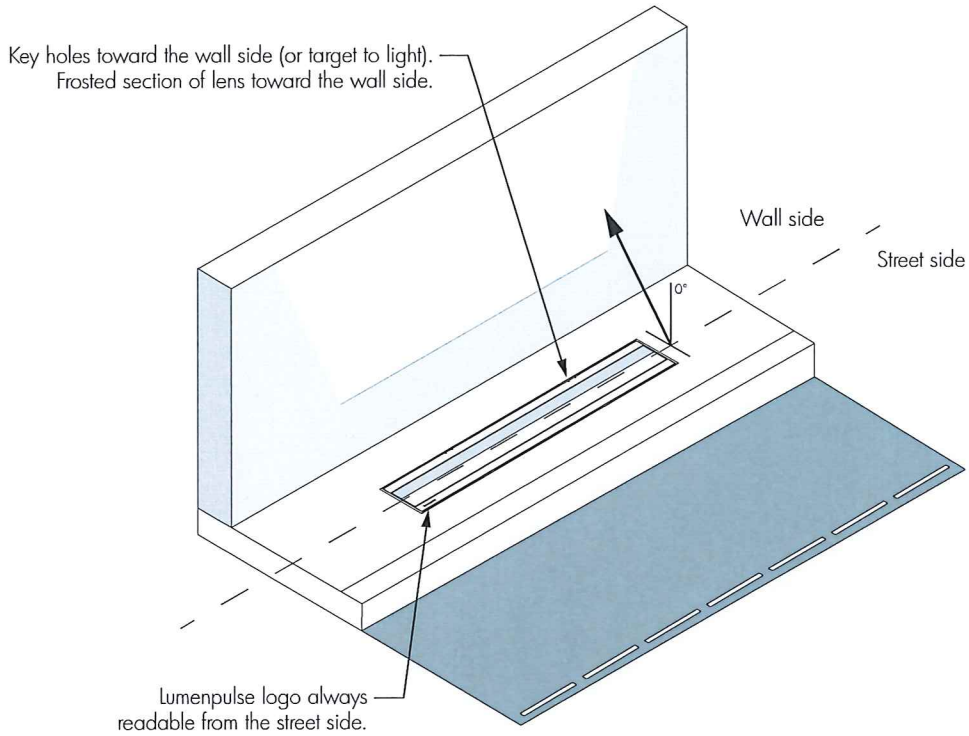
OPTICAL CHAMBER ORIENTATION



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ACCESSORIES

Order separately, refer to each item's specification sheet for ordering information

Control Systems:

LTO2 Lumentouch is a wall mount DMX 512 controller keypad.

LCU Lumencue is a USB / mini SD DMX 512 controller.

LID LumenID is a diagnostic and addressing DMX 512 controller.
It must be specified on all DMX applications.
Refer to LID specification sheet for details.

LTN Lumentone is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

Control Boxes:

CBX DMX/RDM control box.
Up to six power and data outputs to fixtures or fixture runs.
Ethernet enabled option.
Refer to CBX specification sheet for details.

Cables **(required)**:

LOILC Leader Cable for Lumenfacade Inground;10', 25' or 50' [3m, 7.6m or 15.2m] standard lengths

LOIJC Jumper Cable for Lumenfacade Inground; 2', 4' or 10' [0.6m, 1.2m or 3m] standard lengths

Inground Junction Box (optional):

Lumenfacade Inground IP68 sealed junction box starter kit - **LOI-JBOX** order code.
*Use for stand alone fixtures and/or first of run fixtures

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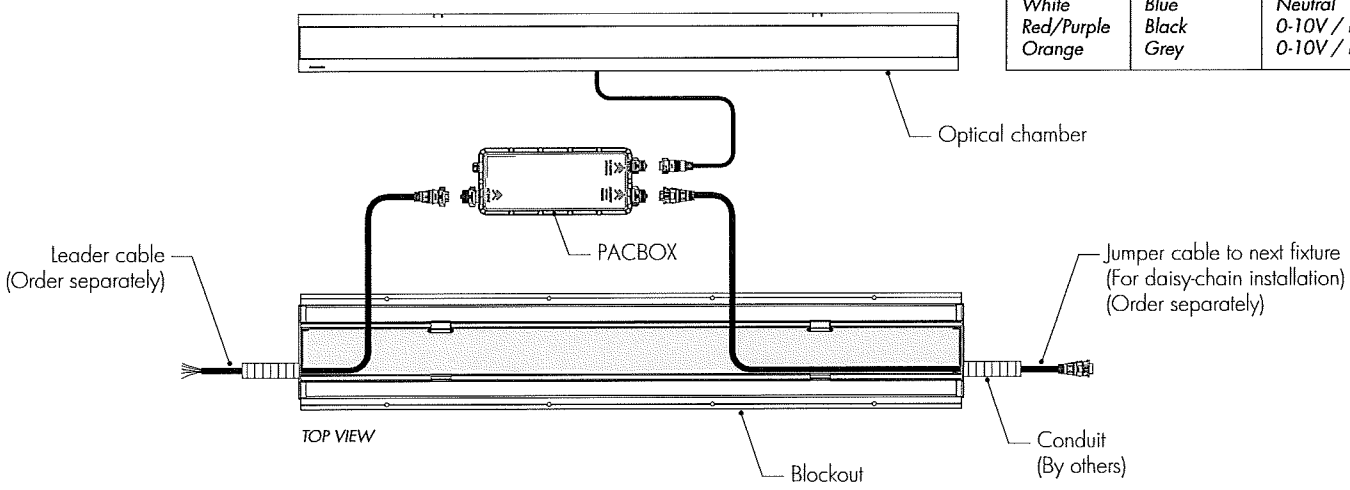
TYPICAL WIRING DIAGRAMS

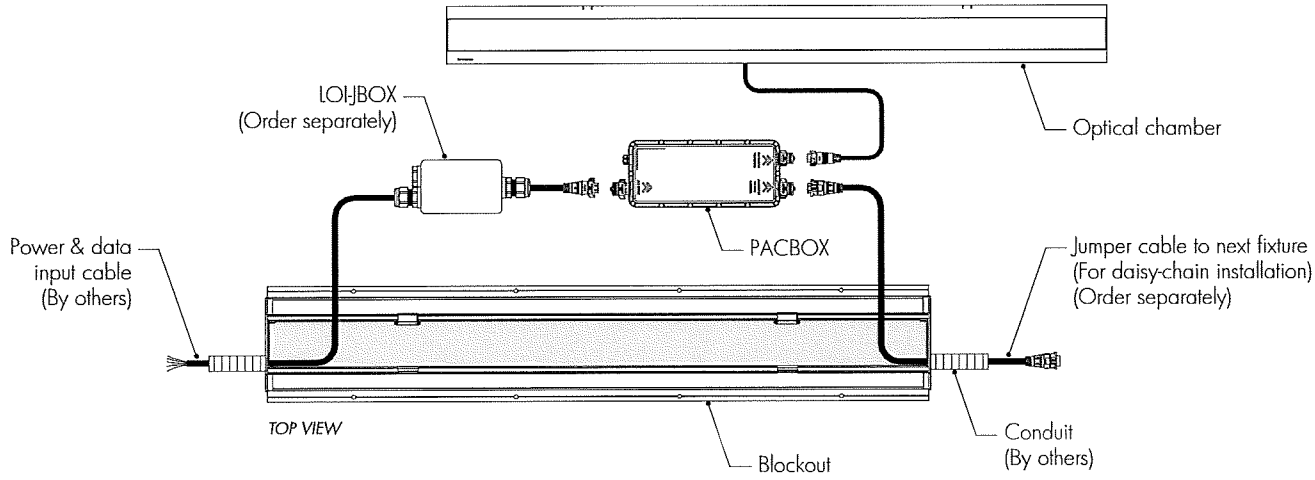
Typical Installation with Leader Cable

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Live 100-277V
White	Blue	Neutral
Red/Purple	Black	0-10V / Data +
Orange	Grey	0-10V / Data -



Typical Installation with IP68 LOI-JBOX Accessory

Cannot be used with 1ft LOI fixture



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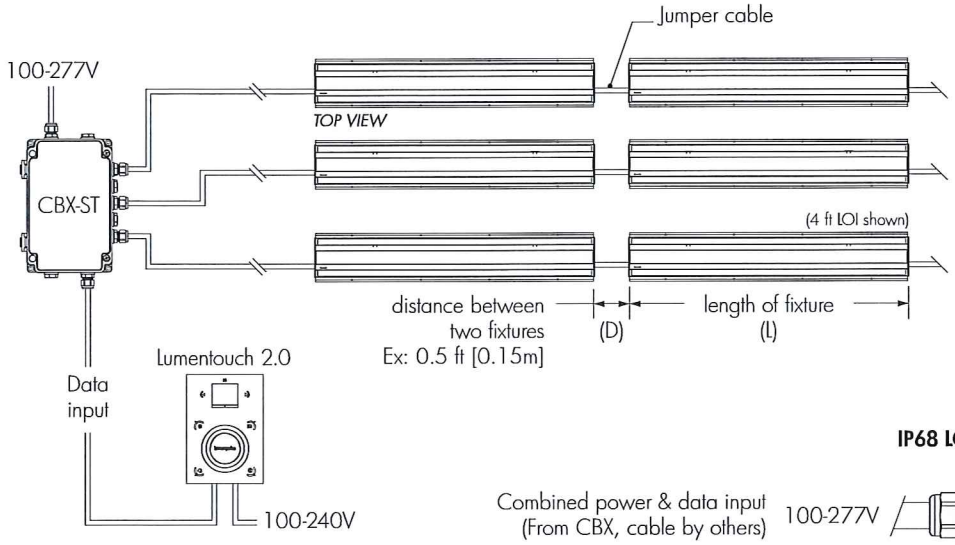
TYPICAL WIRING DIAGRAMS - continued

Star Layout (DMX/RDM)



Jumper Cable Length Selection

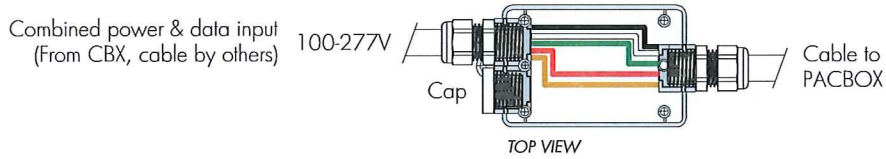
Add the length of one fixture to the distance between two fixtures: L + D.

Order the next longest jumper cable available: **2', 4' or 10' [0.6m, 1.2m or 3m]**

Ex: L + D = 4.5ft [1.4m]

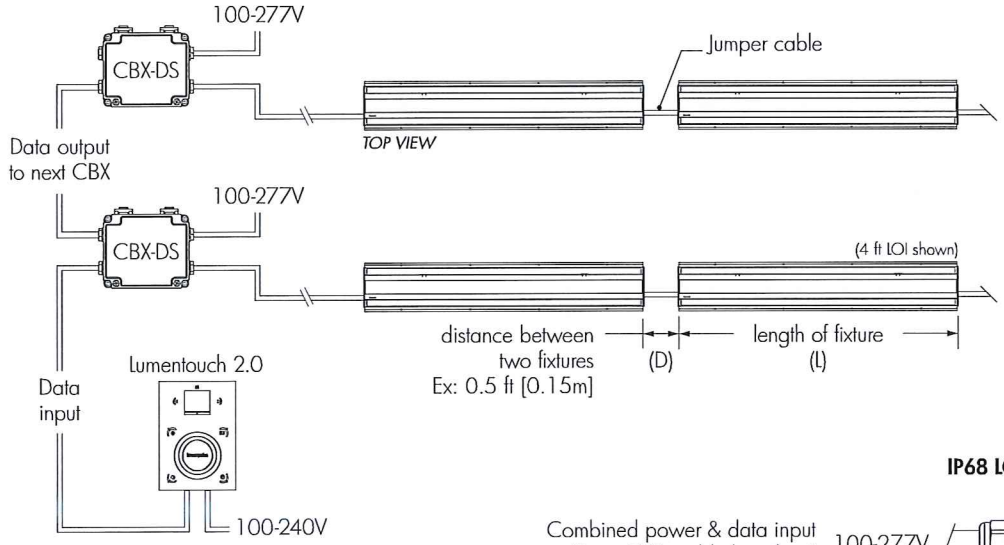
Therefore 10' [3m] jumper cable required

IP68 LOI-JBOX Accessory - Wiring Detail



Maximum 32 DMX/RDM enabled fixtures per DMX/RDM run.

Daisy Chain Layout (DMX/RDM)



Jumper Cable Length Selection

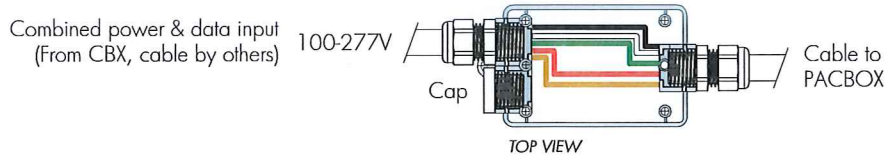
Add the length of one fixture to the distance between two fixtures: L + D.

Order the next longest jumper cable available: **2', 4' or 10' [0.6m, 1.2m or 3m]**

Ex: L + D = 4.5ft [1.4m]

Therefore 10' [3m] jumper cable required

IP68 LOI-JBOX Accessory - Wiring Detail



Maximum 32 DMX/RDM enabled fixtures per DMX/RDM run.

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HOW TO ORDER

LOI	100/277	Select:	Select:	Select:	Select:	Select:	DMX/RDM	Select:
1	2	3	4	5	6	7	8	9

1

Housing:

LOI - Lumenfacade™ Inground

A Lumenfacade Inground fixture includes 1x optical chamber (LOIC), 1x power and control box (PACBOX) and 1x recessed blockout (RBO). The LOIC, PACBOX and RBO are provided according to the output/color, length and control configuration.

2

Voltage:

100/277 - 100-277 volts

3

Length:

12 - 13 1/16 inches (331mm) (2.44 kg/5.38 lbs)
24 - 25 1/16 inches (636mm) (5.23 kg/11.53 lbs)
36 - 37 1/16 inches (941mm) (7.03 kg/15.50 lbs)
48 - 49 1/16 inches (1245mm) (8.84 kg/19.49 lbs)

4

Colors and Color temperatures:

RGB - Additive red, green and blue
RGBW - Additive red, green, blue and white 4000K

5

Optics:

WW - Asymmetric Wallwash optic
10x10 - 10° x 10°
10x60 - 10° x 60°
30x60 - 30° x 60°
60x60 - 60° x 60°

6

Tilt Setting:

Note: asymmetric wallwash optic is factory set with a 2.5 degree tilt.

TS0 - 0 degrees
TS2.5 - 2.5 degrees
TS5 - 5 degrees
TS20 - 20 degrees
Factory set. Cannot be adjusted in the field. Consider ground level when selecting a tilt setting for your application.

7

Optical Option:

INTL - Internal Louver

8

Control:

DMX/RDM - DMX/RDM enabled[1]

9

Option:

ASL - Anti-slip lens

Notes:

[1] Fixtures set to by fixture resolution. 3 DMX addresses per RGB fixture, 4 DMX addresses per RGBW fixture.

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TARGETTI

TYPE
PROJECT

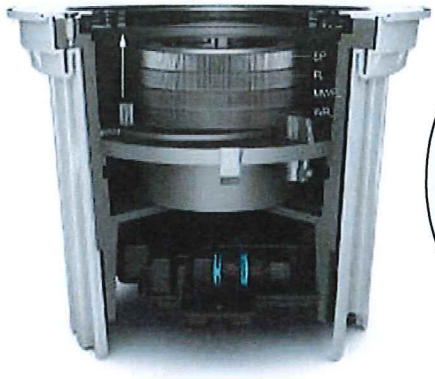
KEPLERO RGBW PROFESSIONAL INGROUND LED FIXTURE

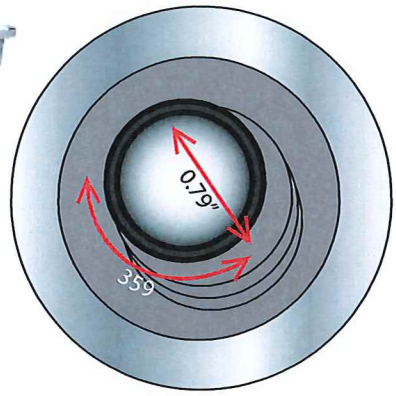
Concept: Professional single source RGBW LED COB fully adjustable inground recessed LED fixture.
Housing: Black anodized aluminum body. Extra clear flat glass, (Anti-slip available).
Materials: Anodized black die-cast aluminium heat sink. PVC installation sleeve.
Trim: Stainless steel (AISI316L) ultra flat round decorative ring, with straight edge in brushed natural or bronze finishes. Features tamper-proof Torx screws.
Optic: Zoom optical system which slides and locks on vertical axis according to four different positions to provide four different beam spreads; 17°, 26°, 42° and 62° beam spreads. Light beam can be adjusted 20° on the vertical plane and 359° on the horizontal plane with integral locking system.
Mounting: Flush and semi-flush installation sleeves with stainless steel extension sleeve or optional raised installation tube for landscape. Drive-over rated (to 20kN), installation sleeve required. (Sold separately).
Driver: Integrated IP68 electronic driver (universal voltage, 0-10V) complete with watertight IP68 connector cable.
Installation: Direct burial brass ingrade jbox with 6ft IP68 connector cable required. (Sold separately).
Wattage: Max 48W with full color operation.
Color Temperature: RGBW
Lumens: At full RGBW color

Spot 17 = 780Lm
Flood 26 = 1012Lm
Medium Wide Flood 42 = 1239Lm
Wide Flood 62 = 1237Lm

Voltage: Universal Voltage 120-277V AC 50/60Hz
IP: IP67 rated (Tested and passed at IP66, IP67, IP68 and IP69)
Certifications: cULus listed Wet Location
Warranty: 5 year limited warranty

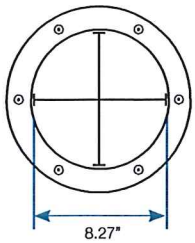
KEPLERO® RGBW with Clear Lens

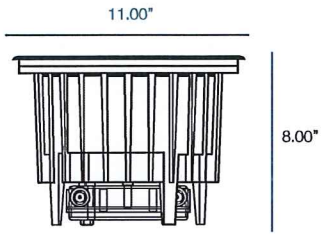




PRODUCT CODE	TYPE	WATTAGE	COLOR TEMPERATURE
KPL - Keplero	ZM – Zoom	L1 – 48W	RGBW - RGBW

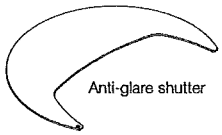
Views





Accessories

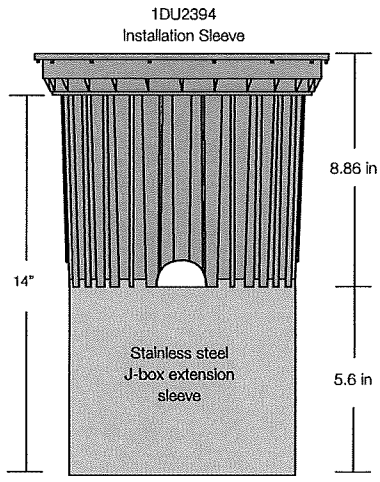
FILTERS	
Blade of light	1T1696
Honeycomb Louver	1T1699
Anti-glare shutter	1E2402

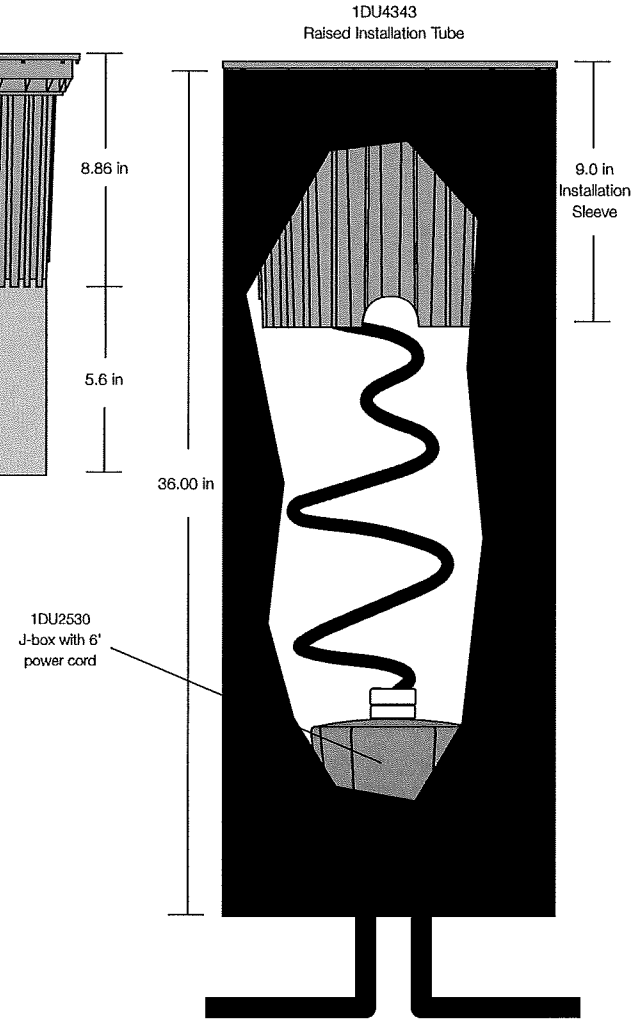


RING OPTION	
Brushed stainless steel ring	IE2325
Bronze trim ring option	1DU2325B

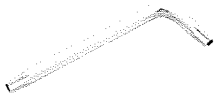
ANTI-SLIP	
Anti-slip glass	1DU4900

INSTALLATION	
Installation sleeve with 5.6" stainless steel extension sleeve	1E2394
Stainless steel raised installation sleeve 36" - Black (Field cuttable to 23" above ground) with 9" installation sleeve	1DU4343
Direct burial brass ingrade jbox with 6ft IP68 connector cable	1DU2530
Anti-vandal torx key	1E2495
Fixture maintenance removal handle	1E2496
Glass removal tool	1E0388

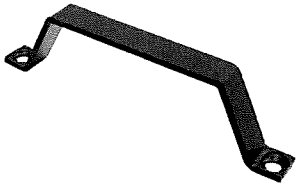




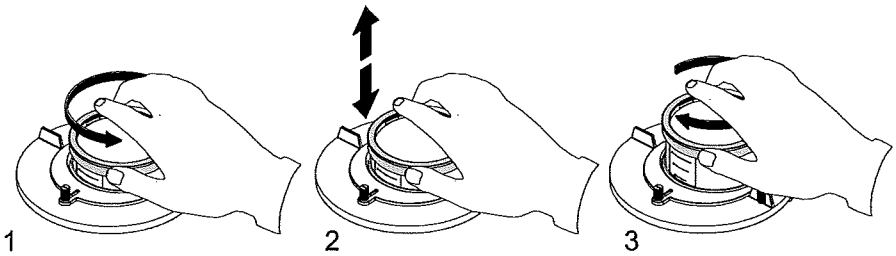
1DU2530 Brass junction box features (2) 3/4" bottom holes and (2) side 3/4" side holes.

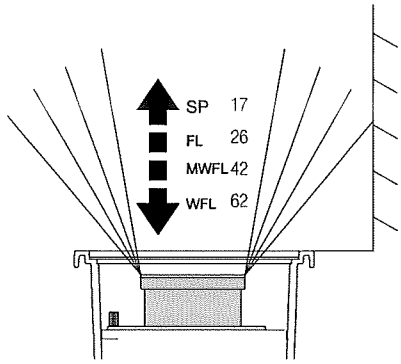


1E2495 Anti-vandal torx key

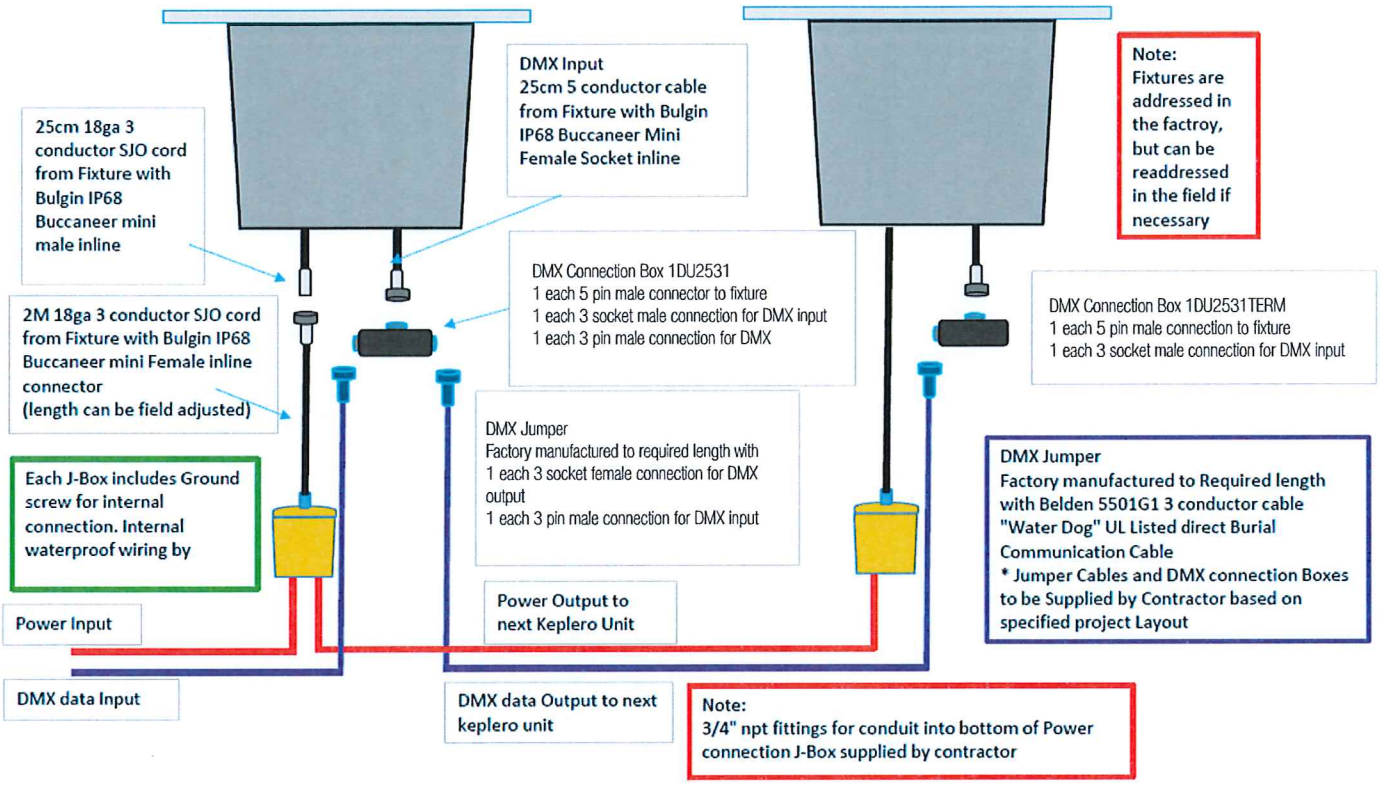


1E2496 Fixture maintenance handle





RGBW Wiring diagram



CONNECTION BOXES	
DMX IP68 I-connector standard 1½" x 3" x 1½" box with 3" IP68 female 5-pin connector cord (to fixture) IP68 male 3-pin connector (DMX In) IP68 female 3-pin connector (DMX Out) 1 per fixture assuming no series of more than 20 fixtures.	1DU2531
DMX IP68 T-connector (buffered). 1½" x 3" x 1½" box with 3" IP68 female 5-pin connector cord (to fixture) IP68 male 3-pin connector (DMX In) IP68 female 3-pin connector (DMX Out). Required for fixtures in series of more than 30 fixtures.	1DU2531BUFF
DMX IP68 End connect for 1½" x 3" x 1½" box with 3" IP68 female 5-pin connector cord (to fixture) IP68 male 3-pin connector (DMX In). Required for end of run fixtures.	1DU2531TERM

CONNECTION CABLES	
DMX IP68 Connector lead, 20ft direct burial cable for fixture to controller lead wire connection with IP68 female 3 socket connector (DMX out) bare wire at opposite end for DMX in controller connection. * Lead wires up to 120 feet available upon request.	1DU2533-LEAD
DMX IP68 Connector cord, 5ft direct burial Belden cable for fixture to fixture DMX data connection with IP68 male 3 socket connector (DMX In) and IP68 female 3-pin connector (DMX Out).	1DU2533-05
DMX IP68 Connector cord, 10ft direct burial Belden cable for fixture to fixture DMX data connection with IP68 male 3 socket connector (DMX In) and IP68 female 3-pin connector (DMX Out).	1DU2533-10

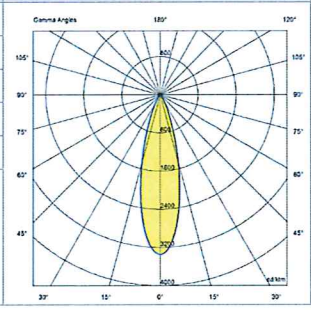
* Connector cords sold in 5foot increments from 5 foot (1DU2533-05) to 50 foot (1DU2533-50).

** For longer cord increments from 50 foot (1DU2533-50) to 120 foot (1DU2533-120) sold in 10 foot increments.

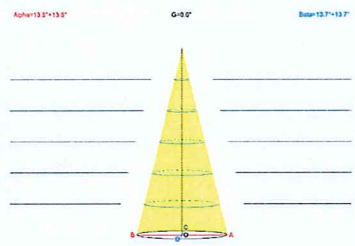
Photometrics

Spot	
Fixture Power	48W
Fixture Output	780Lm
Kelvin Temp	RGBW
Beam Spread	SP 17
IMax	3349cd/klm
Efficacy	16 Lm/W

Polar Graph



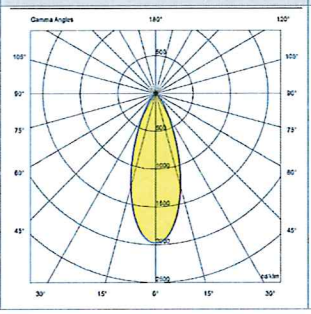
Cone of Light



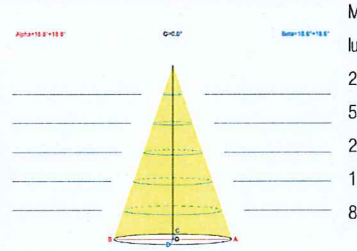
(M)	Max lux	Med lux
1.00	2612	1614
2.00	653	404
3.00	290	179
4.00	163	101
5.00	104	65

Flood	
Fixture Power	48W
Fixture Output	1012Lm
Kelvin Temp	RGBW
Beam Spread	FL 26
IMax	1977cd/klm
Efficacy	21 Lm/W

Polar Graph



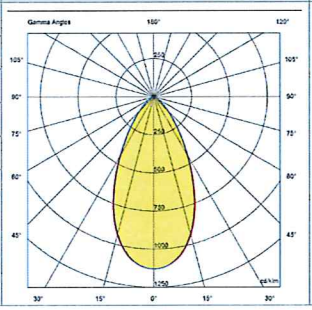
Cone of Light



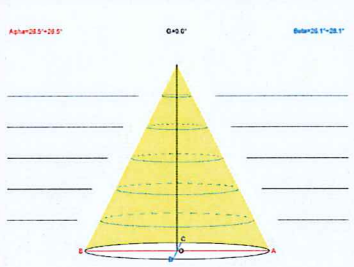
(M)	Max lux	Med lux
1.00	2001	1168
2.00	500	297
3.00	222	132
4.00	125	74
5.00	80	48

Medium Wide Flood	
Fixture Power	48W
Fixture Output	1239Lm
Kelvin Temp	RGBW
Beam Spread	MFL 42
IMax	1130cd/klm
Efficacy	26 Lm/W

Polar Graph



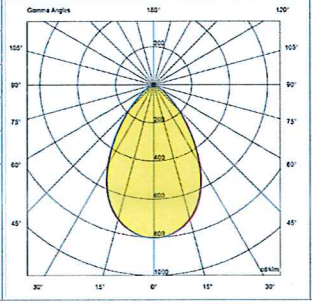
Cone of Light



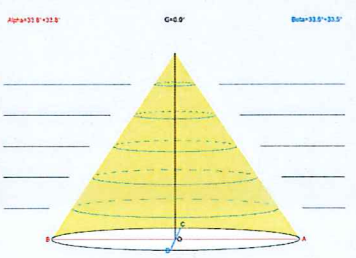
(M)	Max lux	Med lux
1.00	1400	766
2.00	350	192
3.00	156	85
4.00	87	48
5.00	56	31

Wide Flood	
Fixture Power	48W
Fixture Output	1237Lm
Kelvin Temp	RGBW
Beam Spread	WFL 62
IMax	803cd/klm
Efficacy	26 Lm/W

Polar Graph



Cone of Light



(M)	Max lux	Med lux
1.00	993	487
2.00	248	122
3.00	110	54
4.00	62	30
5.00	40	19

landscapeforms®

GUIDE

Product Data Sheet

Guide is an illuminated bollard that can serve as a marker separating vehicular and pedestrian flows, a wayfinder and a pathway light. Designed in collaboration with frog design, its striking sculptural form makes it a defining element in the landscape. Guide's optical core with curved lens provides uniform diffused light. Vertical LED arrays emit light between panels at 120° angles, illuminating the pathway with overlapping swathes of light. Available as an unlit version with removable option, Guide offers unusual flexibility for multiple applications.

General Description

- Cast aluminum sub-structure with cast aluminum exterior panels
- Available with or without lighting
- Surface mounted
- Removable option available without lighting
- Ships fully assembled
- LEDs must be hardwired when installed

Electrical

Surge protected 100V-277V 50/60 Hz, Class 2 LED driver is standard. LED cartridges with weatherproof quick disconnect provides ease of serviceability. Internal wiring connections completed at the factory.

Finish

Pangard II®, offered exclusively by Landscape Forms, is a 19 step program of cleaning, priming, and powdercoating that resists rusting, chipping, peeling and fading to produce the finest metal finish available for site furniture. In addition, Pangard II® contains no heavy metals and is free of Hazardous Air Pollutants.

To Order

- Specify Guide bollard and powdercoat color.
- Specify surface mount or removable.
- For surface mount option, specify with or without LED lighting.
- Specify color temperature for LEDs.

Warranty

LED lighting products are warranted for six years.

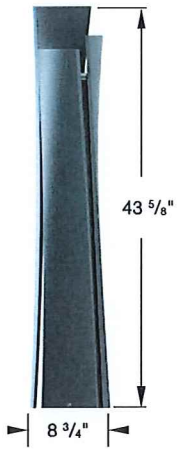
Other

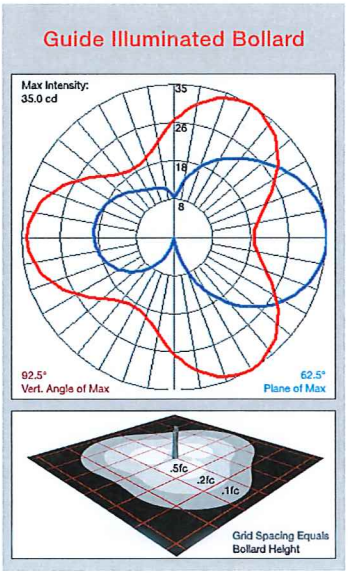
UL Listed, RoHS
US Patent D740,478

Designed by frog design

Guide Illuminated Bollard

Lamp: Nichia Linear LEDs
CCT: 3000K, 3500K, 4000K
L70: 60,000 hrs
Drive Current: 700mA
Lens: Diffused Acrylite®
Power Supply: 100V-277V
LED Driver: TRP LED 12W-016
Total Lumen Output: 270 Lumens
Power Consumption: 9 watts
CRI: 85 Typical
IP Rating: IP67 for LED Cartridges
Weight: 50 lbs





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