

Jacobs is providing engineering design of the Gilbert Road Light Rail Extension Project. The Project is approximately 1.9 miles in length, extending from the Central Mesa Extension (CME) project's eastern extent at Edgemont and Main Street east on Main Street to Gilbert Road. The Project includes center-running light rail track, two passenger stations on Main Street including stations at Stapley Drive and Gilbert Road, a Park and Ride (PNR) facility at Gilbert Road, an Operator's Facility, traction power substations, a signal building, and all ancillary equipment to operate the trains.

At 1235 E. Main Street (SW corner of Main Street and Allen), a Traction Power Substation (TPSS) is proposed that will provide power supply to the trains. The proposed building is a masonry structure that houses the power equipment and has access doors for Valley Metro maintenance personnel. The proposed building is similar in appearance to an existing TPSS at Sycamore and Main Street that was constructed as part of the original start-up system.



KEY NOTES

ITEM	
1	PROPOSED ASPHALT PAVEMENT
2	PROPOSED CURB AND GUTTER
3	PROPOSED CONCRETE DRIVEWAY
4	PROPOSED TPSS BUILDING
5	LANDSCAPING SETBACK
6	PROPOSED STREET LIGHT

IMPROVEMENTS WITHIN MAIN STREET RIGHT-OF-WAY PER GILBERT ROAD LRT EXTENSION TRACK AND ROADWAY PLANS DESIGNED BY OTHERS

MAIN STREET

PROP R/W

EXST R/W

EXST COMMERCIAL BUILDING

EXST COMMERCIAL BUILDING

138-09-046L

138-09-046K

138-09-046F

FUTURE REGIONAL RETENTION BASIN BY OTHERS

EXST COMMERCIAL BUILDING (TO BE REMOVED)

138-09-046H

138-09-046J

EXST COMMERCIAL BUILDING

ALLEN

EXST STREETLIGHT

±34'

4' S/W

4' S/W

12'

15'

±25'

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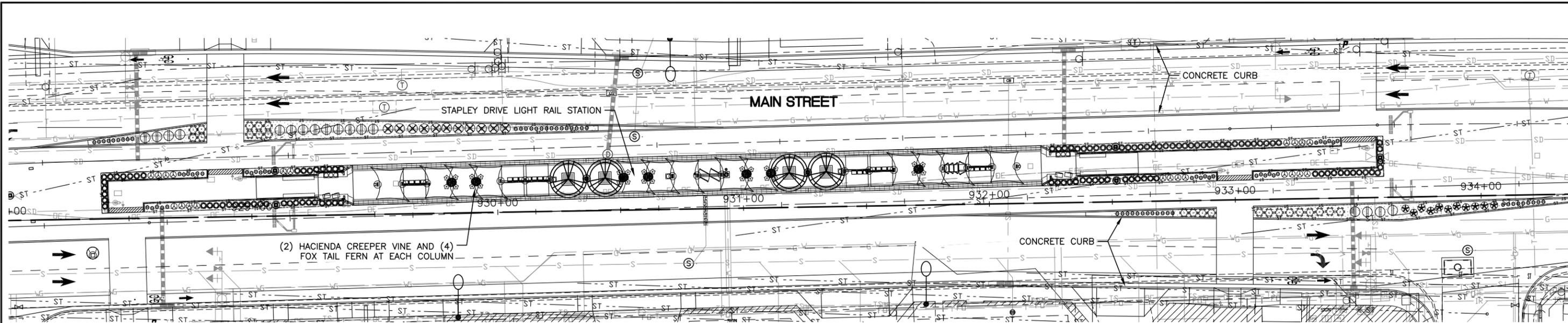
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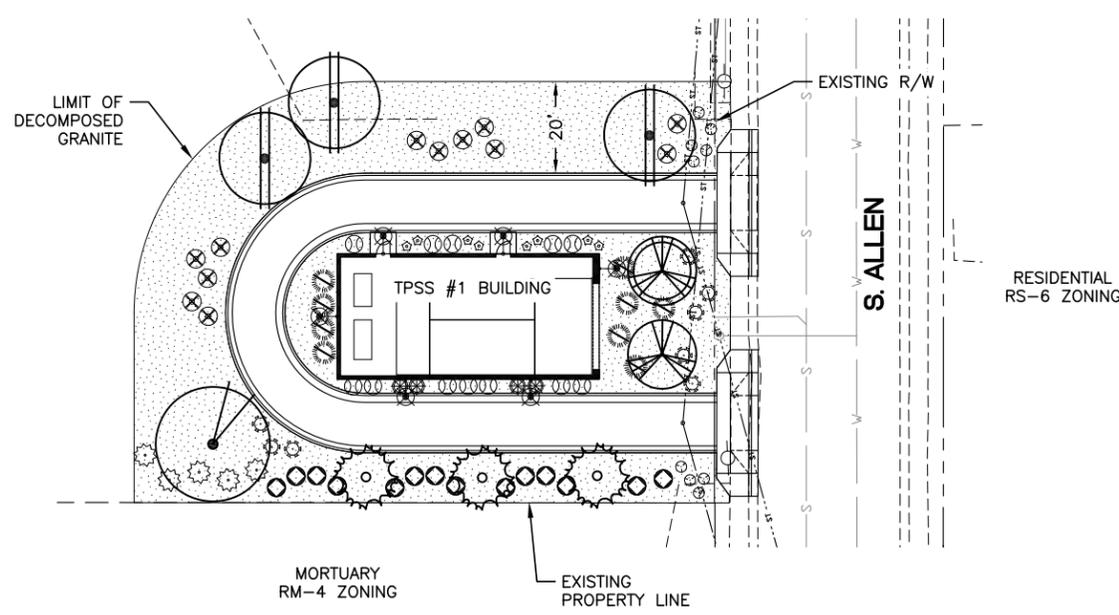
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STAPLEY DRIVE STATION



CITY OF MESA LANDSCAPE DATA

DESCRIPTION	REQ'D	PROV'D
LOCAL STREET FRONTAGE (66 LF) 1 TREE & 4 SHRUBS PER 25 LF		
TREES	3	3
SHRUBS	12	17
COMMERCIAL BUFFER (130 LF) 3 TREES & 20 SHRUBS PER 100 LF		
TREES	4	4
SHRUBS	26	26

PLANT SIZE NOTES:

- 25% OF THE TREES REQUIRED ALONG THE STREET FRONTAGE SHALL BE 36" BOX OR LARGER, WITH A MINIMUM OF 50% OF THE TREES REQUIRED ALONG THE STREET FRONTAGE SHALL BE 24" BOX. NO TREE SHALL BE SMALLER THAN 15 GALLON.
- 50% OF THE TREES IN THE COMMERCIAL LANDSCAPE BUFFER SHALL BE 24" BOX, THE REMAINING SHALL BE A MINIMUM SIZE OF 15 GALLON.
- 50% OF ALL REQUIRED SHRUBS SHALL BE 5 GALLON OR LARGER. NO SHRUBS MAY BE SMALLER THAN 1 GALLON.

GENERAL NOTES:

- ALL LANDSCAPE AREAS TO RECEIVE AN AUTOMATIC DRIP IRRIGATION SYSTEM.
 - ALL PLANT MATERIAL SHALL BE INSTALLED PER CITY REQUIREMENTS.
 - TREES SHALL BE INSTALLED A MINIMUM OF 18' FROM LIGHT POLES. SHRUBS SHALL BE INSTALLED A MINIMUM OF 7' FROM LIGHT POLES.
- ST--- = SIGHT DISTANCE TRIANGLE LINES. THERE SHALL BE NO OBSTRUCTIONS TO VISION BETWEEN A HEIGHT OF 3' & 8' WITHIN THE SIGHT DISTANCE TRIANGLE PER CITY OF MESA ENGINEERING & DESIGN MANUAL.

PLANT LEGEND

SYM.	SPECIES:
TREES: SIZE AS NOTED	
	ACACIA ANEURA: 24" BOX MULGA
	ACACIA ANEURA: 36" BOX MULGA
	DALBERGIA SISSOO: 24" BOX SISSOO TREE
	CHITALPA TASHKENTENSIS: 24" BOX CHILTAPA
	PISTACIA LENTISCUS: 24" BOX MASTIC
SHRUBS: 5 GALLON	
	BOUGAINVILLEA SPECIES 'LA JOLLA' LA JOLLA BOUGAINVILLEA
	RUELLIA PENINSULARIS BAJA RUELLIA
	TECOMA STANS 'SIERRA APRICOT' SIERRA APRICOT TECOMA
GROUNDCOVERS: 1 GALLON	
	ASPARAGUS DENSIFLORUS 'MYERS' FOXTAIL FERN
	CALLISTEMON VIMALIS 'LITTLE JOHN' LITTLEJOHN BOTTLEBRUSH
	LANTANA X. 'NEW GOLD'* NEW GOLD LANTANA
	RUELLIA BRITTONIANA 'KATIE' KATIE RUELLIA
ACCENTS: 5 GALLON	
	ASCLEPIAS SUBULATA DESERT MILKWEED
	DASYLIRION WHEELERI DESERT SPOON
	HESPERALOE PARVIFLORA 'BRAKELIGHTS' BRAKELIGHTS RED YUCCA
	HESPERALOE PARVIFLORA 'YELLOW YUCCA' YELLOW HESPERALOE
	MUHLENBERGIA EMERSLEYI 'EL TORO' EL TORO DEER GRASS
	YUCCA PALLIDA PALE LEAF YUCCA
VINES:	
	PARTHENOCISSUS SP. 'HACIENDA' HACIENDA CREEPER
MULCH:	
	DECOMPOSED GRANITE: 2" DEPTH, SIZE & GRADATION TO MATCH LIGHT RAIL
* 5 GALLON GROUNDCOVERS	

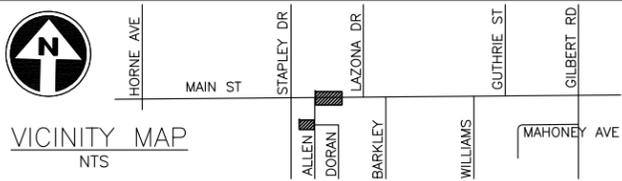


Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NOTE: THIS PROJECT SHALL CONFORM TO FTA'S BUY AMERICA REQUIREMENTS.

PRELIMINARY- NOT FOR CONSTRUCTION



J2 Engineering and Environmental Design
4649 East Cotton Gin Loop, Suite B2
Phoenix, Arizona 85040
Phone: 602-438-2221
Web: www.j2design.us

23430
JEFFREY M. ENGELMANN
Professional Landscaper
ARIZONA, U.S.A.

JACOBS
101 N. 1st AVENUE, #2600, PHOENIX, AZ 85003
T 602.253.1200, F 602.253.1202
WWW.JACOBS.COM

VALLEY METRO

DESIGNED BY: S. PLACKO
DRAWN BY: S. PLACKO
CHECKED BY: K. WALLIN
APPROVED BY: J. ENGELMANN
SCALE: 1"=20'
SUBMITTAL DATE: 27 JUN 16

GILBERT ROAD LRT EXTENSION
VALLEY METRO CONTRACT NO. 14011-GRDS CITY OF MESA PROJECT NO. CP0296

STAPLEY DRIVE STATION & TPSS #1
CONCEPTUAL LANDSCAPE PLAN

DRAWING NO: GRE-LP-DRB-02
REVISION:
CITY OF MESA PLAN NO:
SHEET NO:

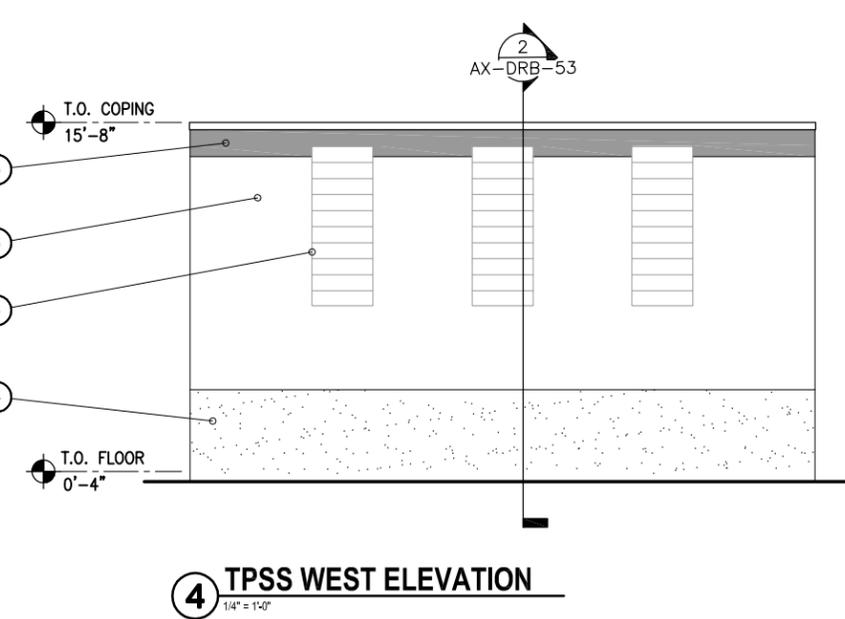
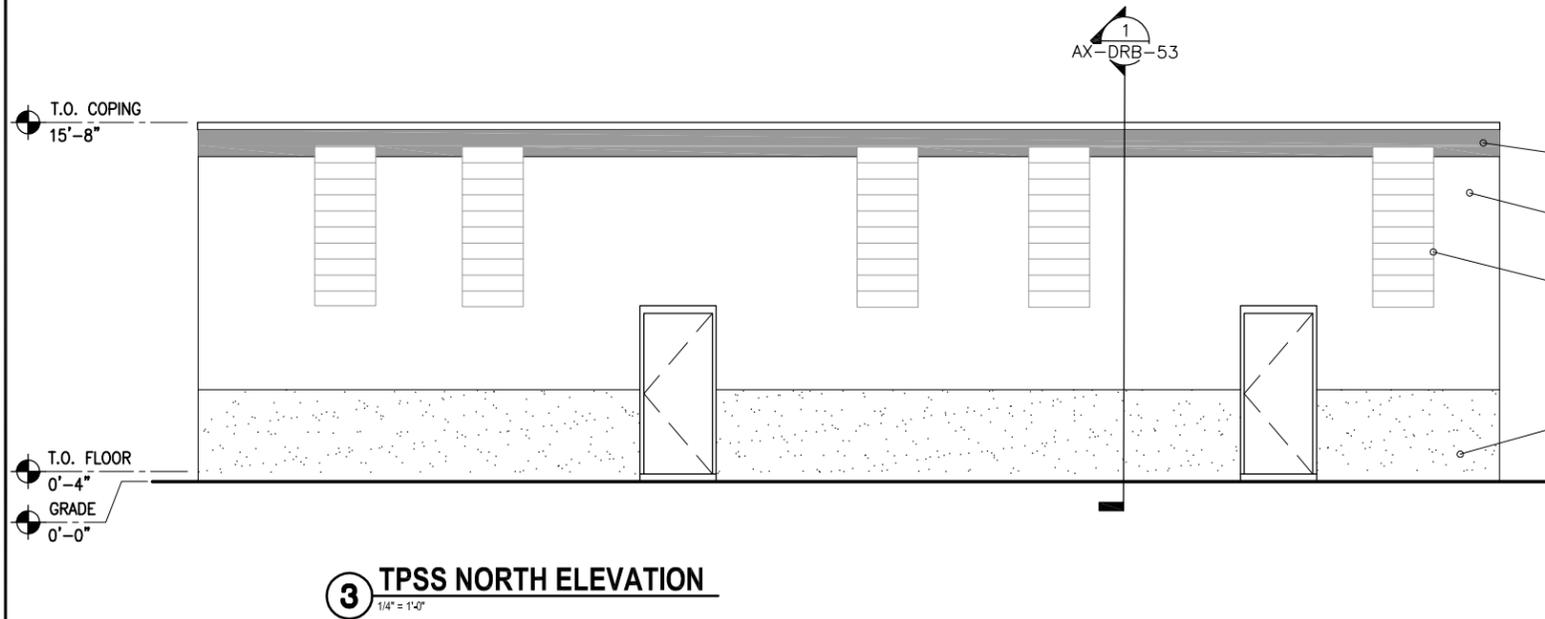
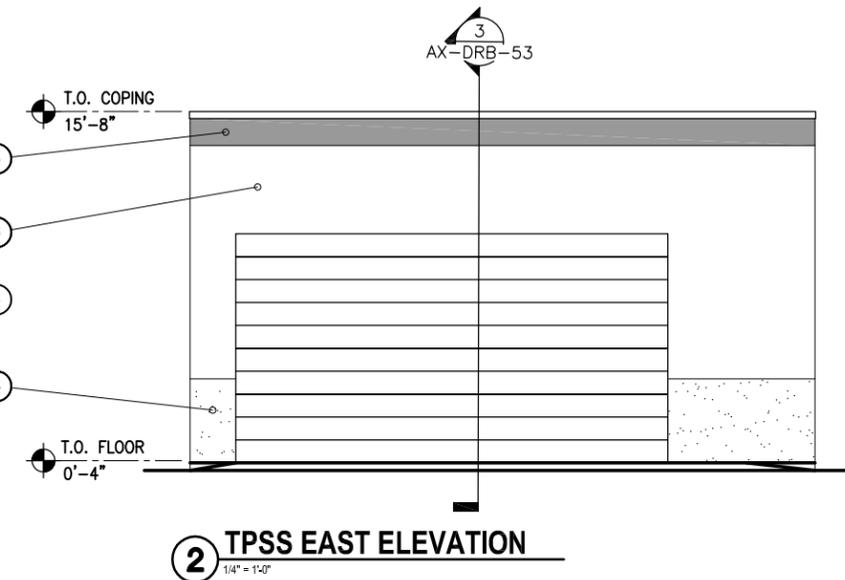
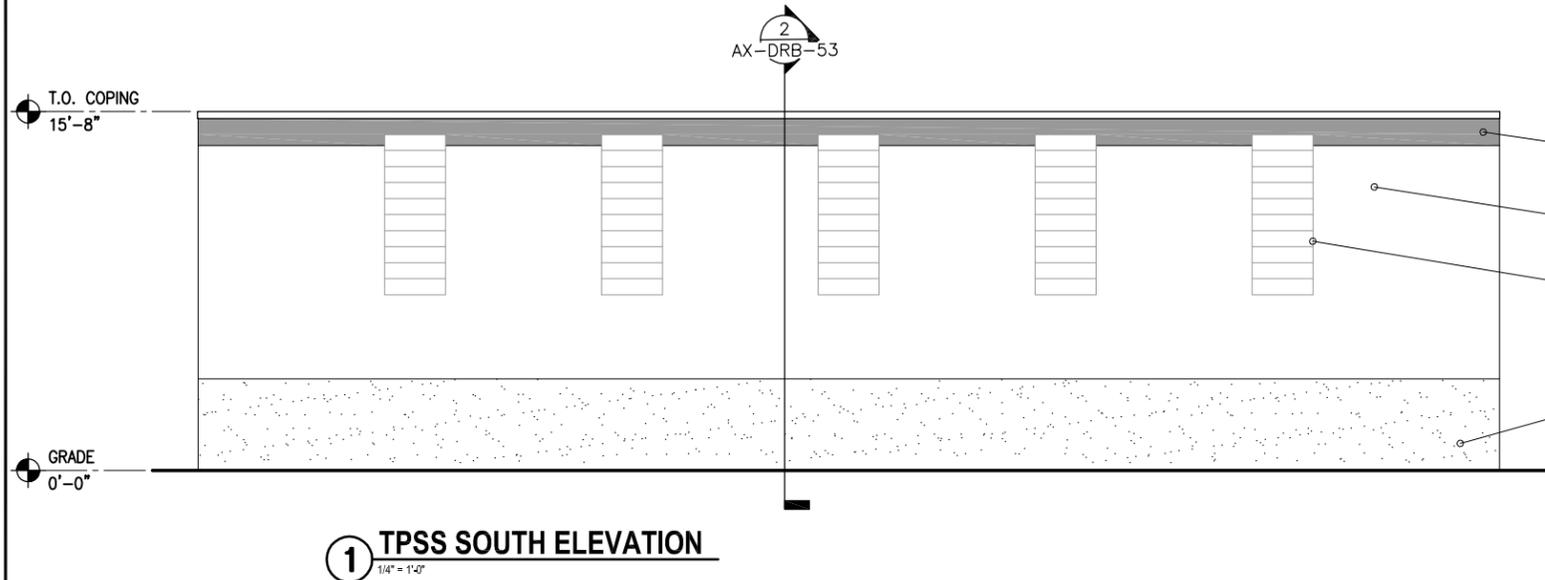
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BUILDING FINISHES KEYNOTES

KEYED NOTES	
1	CONCRETE PAD
2	GARBAGE TOTES
3	GROUND FACE CMU - 1
4	SPLIT FACE CMU - 1
5	SPLIT FACE CMU - 2
6	FREE-AIR LOUVERS
7	STOREFRONT SYSTEM
8	STOREFRONT INTEGRAL SUNSHADE
9	STEEL BEAMS
10	8" CMU WALL

LEGEND

-  - GROUND FACE CMU - 1
-  - SPLIT FACE CMU - 1
-  - SPLIT FACE CMU - 2
-  - FREE-AIR LOUVERS



Call at least two full working days before you begin excavation.

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NOTE: THIS PROJECT MUST CONFORM TO FTA'S BUY AMERICA REQUIREMENTS.

PRELIMINARY
NOT FOR
CONSTRUCTION

REV	DATE	BY	DESCRIPTION
A	10/30/15	-	30% SUBMITTAL
B	04/18/16	-	60% SUBMITTAL
C	06/27/16	-	DRB APPLICATION

wendel
464 South Farmer Avenue, Suite 101, Tempe, AZ 85281
www.wendelcompanies.com p:877.293.6335
Wendel WD Architecture, Engineering, Surveying and Landscape Architecture P.C.

JACOBS
101 N. 1st AVENUE, #2600, PHOENIX, AZ 85003
T 602.253.1200, F 602.253.1202
WWW.JACOBS.COM

VALLEY METRO

DESIGNED BY: J. HILL
DRAWN BY: D. HOPKINS
CHECKED BY: -
APPROVED BY: -
SCALE: AS NOTED
SUBMITTAL DATE: 27 JUN 16

GILBERT ROAD LRT EXTENSION
VALLEY METRO CONTRACT NO. 14011-GRDS CITY OF MESA PROJECT NO. CP0296

**STAPLEY DRIVE TRACTION POWER
SUBSTATION ELEVATIONS**

DRAWING NO:	GRE-AE-DRB-52
REVISION:	C
CITY OF MESA PLAN NO:	-
SHEET NO:	-

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BUILDING FINISHES KEYNOTES

KEYED NOTES
1 CONCRETE PAD
2 GARBAGE TOTES
3 GROUND FAVE CMU - 1
4 SPLIT FACE CMU - 1
5 SPLIT FACE CMU - 2
6 FREE-AIR LOUVERS
7 STOREFRONT SYSTEM
8 STOREFRONT INTEGRAL SUNSHADE
9 STEEL BEAMS
10 8" CMU WALL



1 TPSS NORTH ELEVATION
1/8" = 1'-0"



2 TPSS WEST ELEVATION
1/8" = 1'-0"



3 TPSS SOUTH ELEVATION
1/8" = 1'-0"



4 TPSS EAST ELEVATION
1/8" = 1'-0"

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B	04/18/16	-	60% SUBMITTAL
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WWW.JACOBS.COM

DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
SCALE:	AS NOTED
SUBMITTAL DATE:	27 JUN 16

GILBERT ROAD LRT EXTENSION
VALLEY METRO CONTRACT NO. 14011-GRDS CITY OF MESA PROJECT NO. CP0296

**STAPLEY TPSS - STAPLEY DRIVE
TRACTION POWER SUBSTATION
ELEVATIONS**

DRAWING NO:	GRE-AE-DRB-75
REVISION:	
CITY OF MESA PLAN NO:	
SHEET NO:	

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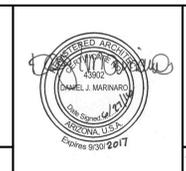
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REV	DATE	BY	DESCRIPTION
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B	04/18/16	-	60% SUBMITTAL
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DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
SCALE:	AS NOTED
SUBMITTAL DATE:	27 JUN 16

GILBERT ROAD LRT EXTENSION
 VALLEY METRO CONTRACT NO. 14011-GRDS CITY OF MESA PROJECT NO. CP0296

PROJECT COLOR BOARD

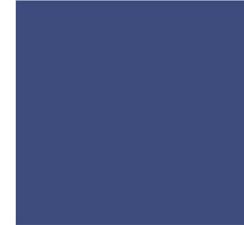
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REVISION:	
CITY OF MESA PLAN NO:	
SHEET NO:	



TPSS coping & anodized aluminum



station steel paint



station blue frp



TPSS ground face accent

TPSS ground face field

TPSS split face base



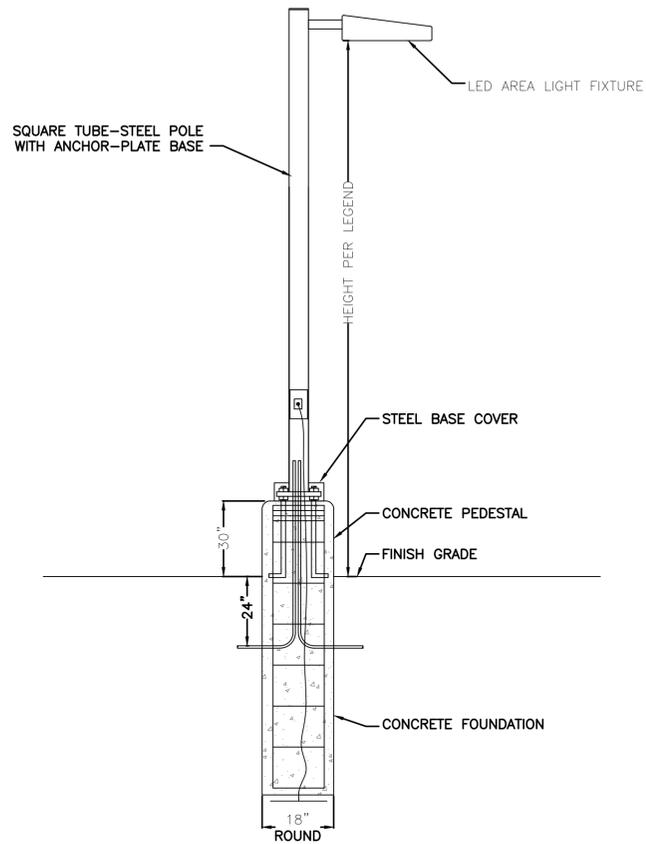
station orange frp



station red frp



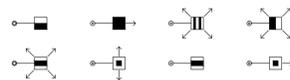
station yellow frp



AREA LIGHT DETAIL

NO SCALE

THIS DETAIL APPLIES TO THE FOLLOWING SYMBOLS ON THE SITE PLAN:



McGraw-Edison

DESCRIPTION
The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Catalog #	Type
Project	Date
Comments	
Prepared by	

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 6000K CCT and 3000K CCT.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting
STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table.

Round pole adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated. **QUICK MOUNT ARM:** Arm is bolted directly to the pole and the fixture slides onto the quick mount arm and is secured via a single fastener, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty
Five-year warranty.

1-10 Light Squares Solid State LED AREA/SITE LUMINAIRE

GLG

CERTIFICATION DATA
ULCUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium™ Qualified*

ENERGY DATA
Electronic LED Driver
≥0.9 Power Factor
≤20% Total Harmonic Distortion
120V/277V 60/50Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

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DIMENSIONS

DRILLING PATTERN

DIMENSION DATA

Number of Light Squares	"A" Width (mm)	"B" Standard Arm Length (mm)	"B" Optional Arm Length (mm)	Weight with Arm (lbs.)	EPA with Arm (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	10" (254mm)	56 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	10" (254mm)	63 (28.6 kgs.)	1.12

NOTE: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

*www.designlights.org

GLEON GALLEON LED

ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AE-10	16" Extended Arm (Required)	16" Extended Arm (Required)

STANDARD WALL MOUNT

MAST ARM MOUNT

QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)

QUICK MOUNT ARM DATA

Number of Light Squares 1,2	"A" Width (mm)	Weight with QM Arm (lbs.)	Weight with GMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	
5-6	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	1.11
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTE: 1. QM option available with 1-8 light square configurations. 2. GMEA option available with 1-8 light square configurations. 3. GMEA arm to be used when mounting two fixtures at 90° on a single pole.

Eaton 122 Highway 76 South Peachtree City, GA 30089 P: 770-485-4500 www.eaton.com/lighting Specifications and dimensions subject to change without notice.

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NOTE: THIS PROJECT MUST CONFORM TO FTA'S BUY AMERICA REQUIREMENTS.

PRELIMINARY NOT FOR CONSTRUCTION

WRIGHT engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightenr.com Project # 15217

SUBMITTED DATE

JACOBS
101 N. 1st AVENUE, #2600, PHOENIX, AZ 85003
T 602.253.1200, F 602.253.1202
WWW.JACOBS.COM

APPROVED DATE

VALLEY METRO

DESIGNED BY: Z. USEVITCH
DRAWN BY: Z. USEVITCH
CHECKED BY: C. TOLMAN
APPROVED BY: C. TOLMAN
SCALE: AS NOTED
SUBMITTAL DATE: 27 JUN 2016

GILBERT ROAD LRT EXTENSION
VALLEY METRO CONTRACT NO. 14011-GRDS CITY OF MESA PROJECT NO. CP0296

LIGHTING DETAILS AND SPECIFICATION SHEETS

DRAWING NO: GRE-PH-DRB-03
REVISION: -
CITY OF MESA PLAN NO: -
SHEET NO: 1 OF 1

McGraw-Edison

DESCRIPTION
The Galleon™ wall and pedestrian LED luminaire's appearance is complementary with the Galleon area and site luminaires bringing a modern architectural style to lighting applications. Flexible mounting options accommodate wall surfaces, pole, and mast arm applications allowing it to be offered as a pedestrian or site lighting, solution. The Galleon family of LED products deliver exceptional performance with patented, high-efficiency AccuLED Optics™, providing uniform and energy conscious lighting for parking lots, building and security lighting applications.

SPECIFICATION FEATURES

Construction
Driver enclosure thermally isolated from optics for optimal thermal performance. Heavy wall aluminum housing die-cast with integral external heat sinks to provide superior structural rigidity and an IP66 rated housing. Overall construction passes a 1.5G vibration test to ensure mechanical integrity.

Optics
Choice of thirteen patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K and 3000K CCT. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Electrical
LED drivers are mounted for ease of maintenance. 120-277V 50/60Hz, 347V or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Drivers are provided standard with 0-10V dimming. An optional Eaton proprietary surge protection module is available and designed to withstand 10kV of transient line surge. The Galleon Wall LED luminaire is suitable for operation in -30°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option.

Mounting
In addition to wall mounting, the innovative quick mounting arm attaches to new or existing 4-5" round or square poles with 1-1/2" to 4-7/8" drilling patterns without re-drilling. Optional mast arm adapter fits horizontal 2-3/8" tenon.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty
Five-year warranty.

1-2 Light Squares Solid State LED WALL AND POLE MOUNT LUMINAIRE



1-2 Light Squares Solid State LED WALL AND POLE MOUNT LUMINAIRE

DIMENSIONS

BATTERY BACKUP AND THRU-WIRE BACKBOX

MAST ARM MOUNT

HOOK-N-LOCK MOUNTING

QUICK MOUNT ARM (OVERALL DIMENSIONS)

QUICK MOUNT ARM (POLE MOUNTING DETAILS)

CERTIFICATION DATA
ULCUL Listed
LM79 / LM80 Compliant
IP66 Housing
ISO 9001
DesignLights Consortium™ Qualified*

ENERGY DATA
Electronic LED Driver
≥0.9 Power Factor
≤20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-30°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA
Approximate Net Weight:
27 lbs. (12.2 kgs.)

FT&N Powering Business Worldwide

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McGraw-Edison

DESCRIPTION
The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightBAR™ technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. ULCUL listed for wet locations.

SPECIFICATION FEATURES

Construction
Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics
Choice of six patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT.

Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common-mode and differential-mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Impact Elite "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws concealed but accessible from bottom of fixture.

Finish
Cast components finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty
Five-year warranty.

1 - 2 LightBARs Solid State LED WALL MOUNT LUMINAIRE



1 - 2 LightBARs Solid State LED WALL MOUNT LUMINAIRE

DIMENSIONS

Cylinder

Quarter Sphere

Trapezoid

Wedge

HOOK-N-LOCK MOUNTING

CERTIFICATION DATA
ULCUL Listed
LM79 / LM80 Compliant
IP66 LightBARs
ISO 9001
DesignLights Consortium™ Qualified*

ENERGY DATA
Electronic LED Driver
≥0.9 Power Factor
≤20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA
Approximate Net Weight:
18 lbs. (8 kgs.)

FT&N Powering Business Worldwide

FT&N Powering Business Worldwide

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BUS SHELTER LIGHT DETAIL

NO SCALE

THIS DETAIL APPLIES TO THE FOLLOWING SYMBOL ON THE SITE PLAN:



TPSS BUILDING LIGHT DETAIL

NO SCALE

THIS DETAIL APPLIES TO THE FOLLOWING SYMBOL ON THE SITE PLAN:



Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348) in Maricopa County; (602) 263-1100

NOTE: THIS PROJECT MUST CONFORM TO FTA'S BUY AMERICA REQUIREMENTS.

PRELIMINARY
NOT FOR
CONSTRUCTION

REV	DATE	BY	DESCRIPTION

WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengr.com Project # 15217

SUBMITTED DATE

Professional Engineer
57159
CLIFFORD M. TOLMAN
Arizona
Expires 3-31-17

JACOBS
101 N. 1st AVENUE, #2600, PHOENIX, AZ 85003
T 602.253.1200, F 602.253.1202
WWW.JACOBS.COM

APPROVED DATE

VALLEY METRO

DESIGNED BY: Z. USEVITCH
DRAWN BY: Z. USEVITCH
CHECKED BY: C. TOLMAN
APPROVED BY: C. TOLMAN
SCALE: AS NOTED
SUBMITTAL DATE: 27 JUN 2016

GILBERT ROAD LRT EXTENSION
VALLEY METRO CONTRACT NO. 14011-GRDS CITY OF MESA PROJECT NO. CP0296

LIGHTING DETAILS
AND
SPECIFICATION SHEETS

DRAWING NO: GRE-PH-DRB-04
REVISION:
CITY OF MESA PLAN NO:
SHEET NO: 1 OF 1

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