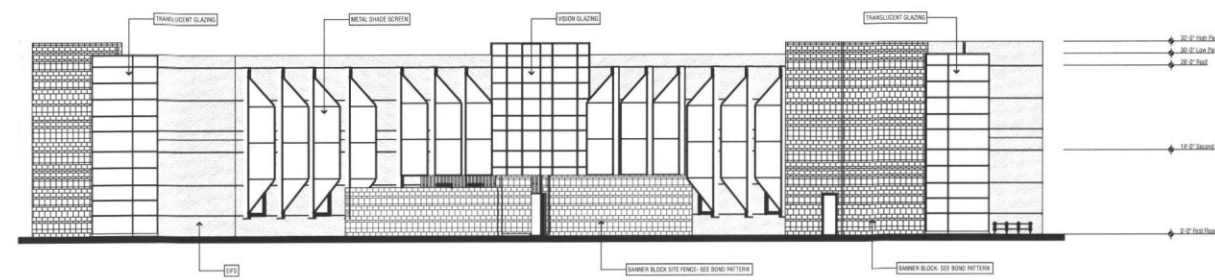


Full Size

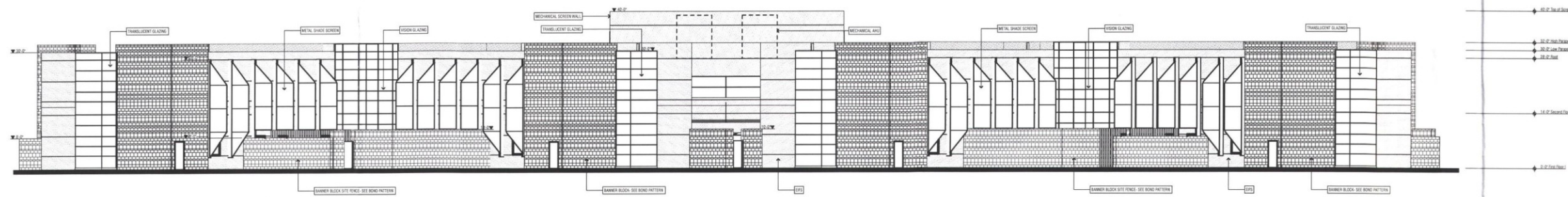
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11 x 17

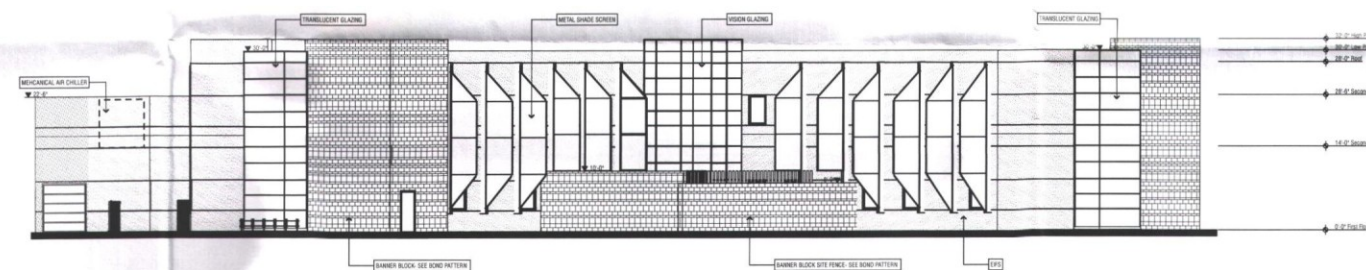
(site plan, landscape, elevations)



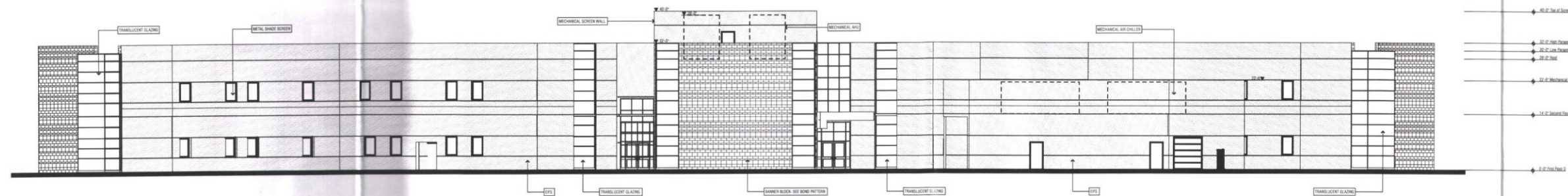
1 NORTH ELEVATION
SCALE: 1/16" = 1'-0"
0 8' 16' 32'



2 EAST ELEVATION
SCALE: 1/16" = 1'-0"
0 8' 16' 32'



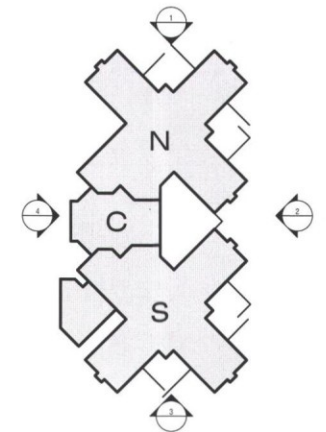
3 SOUTH ELEVATION
SCALE: 1/16" = 1'-0"
0 8' 16' 32'



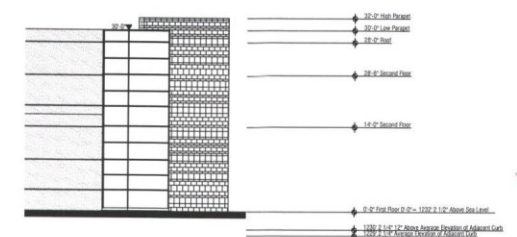
4 WEST ELEVATION
SCALE: 1/16" = 1'-0"
0 8' 16' 32'

ELEVATION LEGEND

- Banner Block
- EIFS
- Vision Glazing with Mullions
- Translucent Glazing with Mullions
- Shading Panels



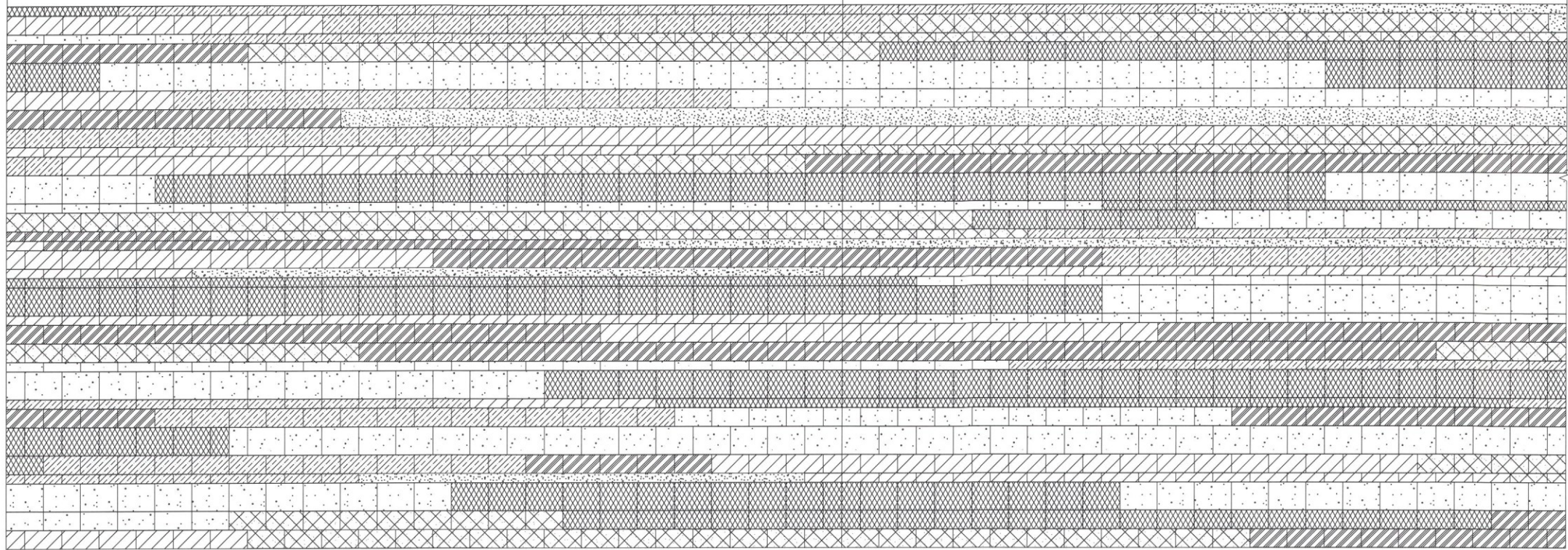
KEY PLAN



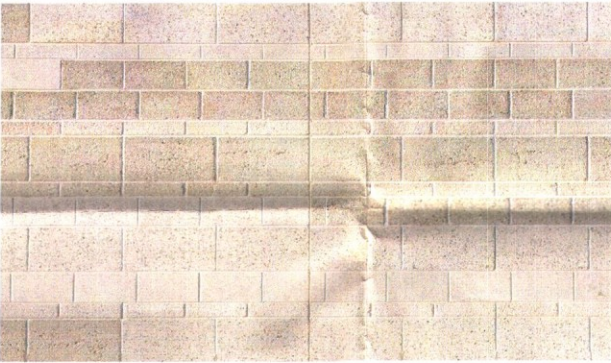
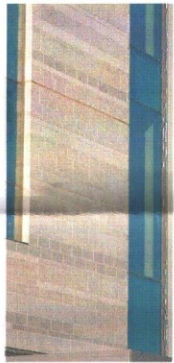
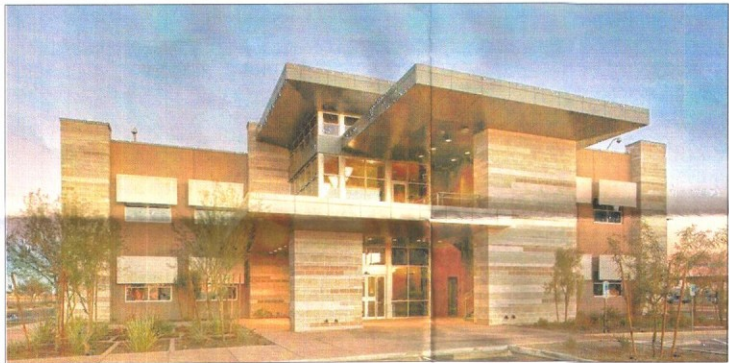
STIPULATION SET
RETAIN FOR RECORDS

APPROVED
11-17-2015
[Signature]

WORKPOINT - A

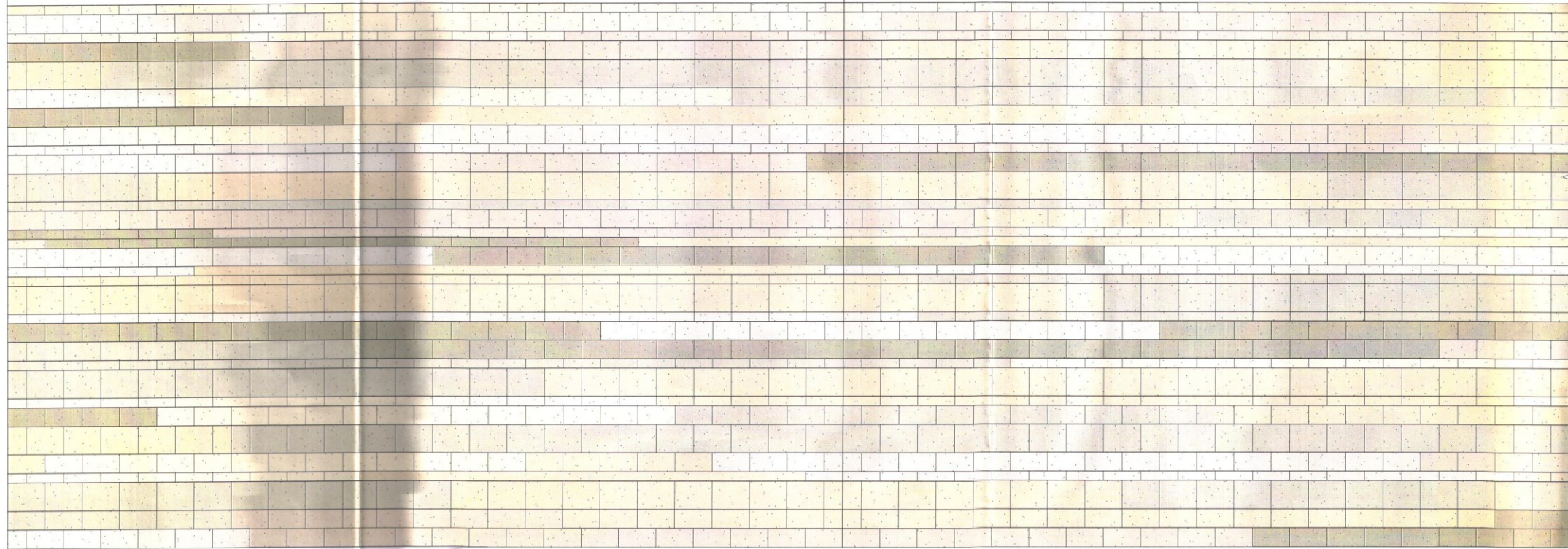


- PEARL WHITE: GROUND FACE
- PEARL WHITE: SAND BLASTED
- MALIBU: SAND BLASTED
- MALIBU: GROUND FACE
- MISSION WHITE: GROUND FACE
- MISSION WHITE: SAND BLASTED
- WALNUT CREEK: GROUND FACE



NOTE: These pictures show the application of Banner Block on various Banner facilities located throughout the Phoenix Metro.

WORKPOINT - A



- PEARL WHITE: GROUND FACE
- PEARL WHITE: SAND BLASTED
- MALIBU: SAND BLASTED
- MALIBU: GROUND FACE
- MISSION WHITE: GROUND FACE
- MISSION WHITE: SAND BLASTED
- WALNUT CREEK: GROUND FACE

NOTE: This shows the Banner Block Arizona palette bond pattern. These blocks are shown in 3 different colors with two different textures. Blocks sizes range from 4x16, 8x16, 12x16.

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BANNER HEALTH Banner Behavioral Health Hospital Inpatient Building

7575 EAST EARLL DRIVE, SCOTTSDALE, ARIZONA 85251

STIPULATION SET
RETAIN FOR RECORDS

APPROVED

11-15-2015

DATE

INITIALS

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PROJECT NO.

2015_043

DATE OF ISSUE

09.24.2015

REVISION NO.

DATE

PROJECT TEAM

mulhall

DRAWN BY

team

PROJECT PHASE

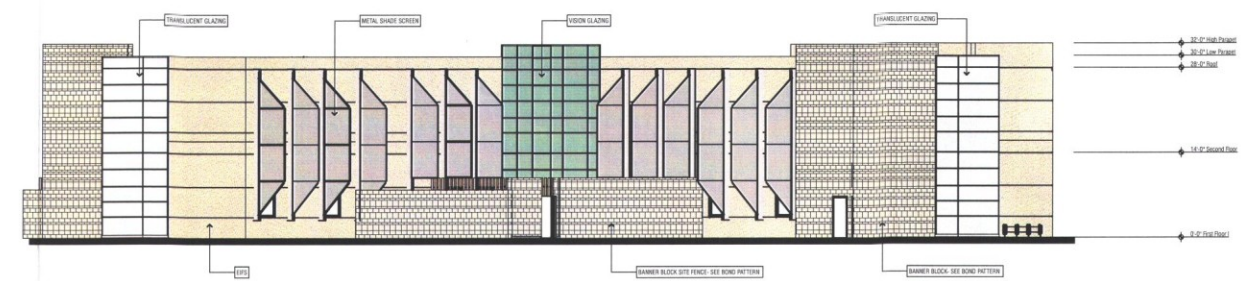
design review board application

SHEET CONTENTS

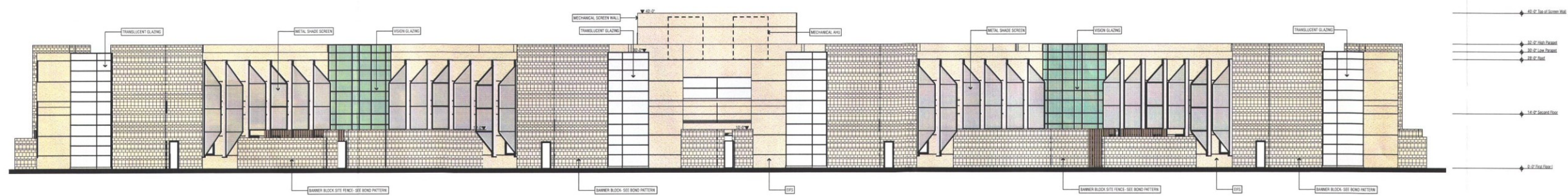
banner block cmu pattern

SHEET NO.

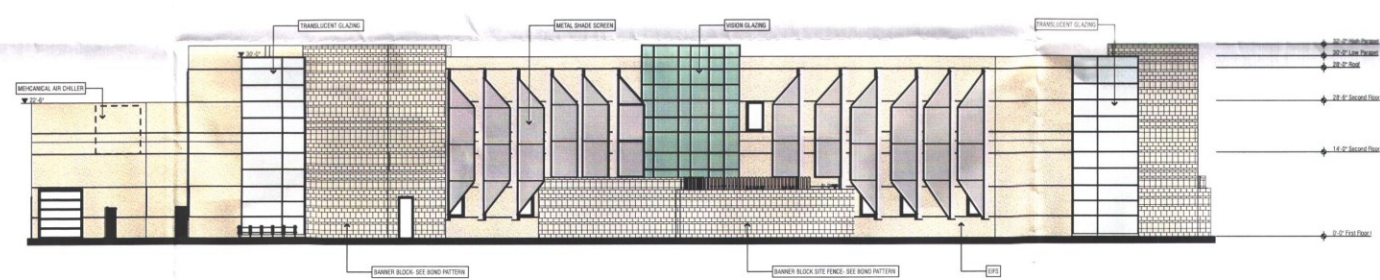
51-DR-2015#2
9/24/15



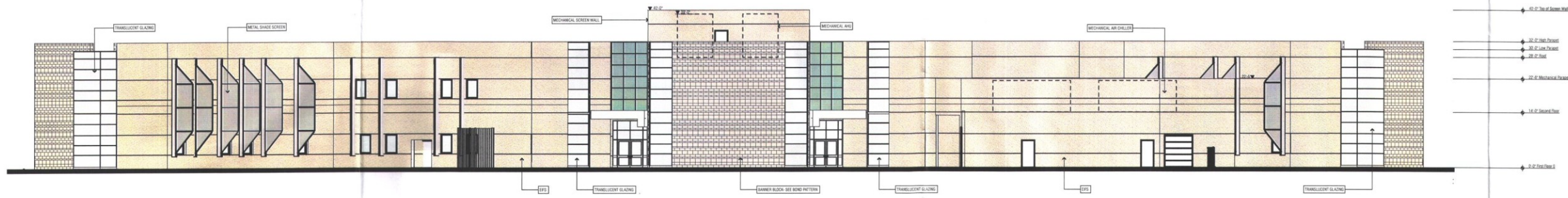
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SCALE: 1/16" = 1'-0"
0 8' 16' 32'



2 EAST ELEVATION
SCALE: 1/16" = 1'-0"
0 8' 16' 32'



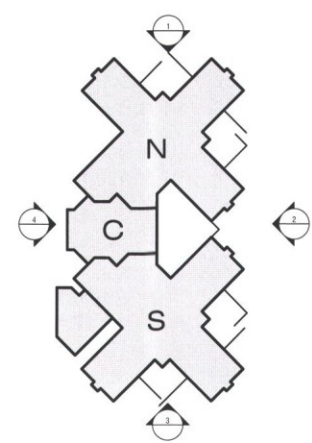
3 SOUTH ELEVATION
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0 8' 16' 32'



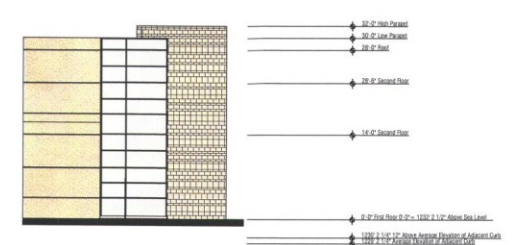
4 WEST ELEVATION
SCALE: 1/16" = 1'-0"
0 8' 16' 32'

ELEVATION LEGEND

- Banner Block
- EIFS
- Vision Glazing with Mullions
- Translucent Glazing with Mullions
- Shading Panels



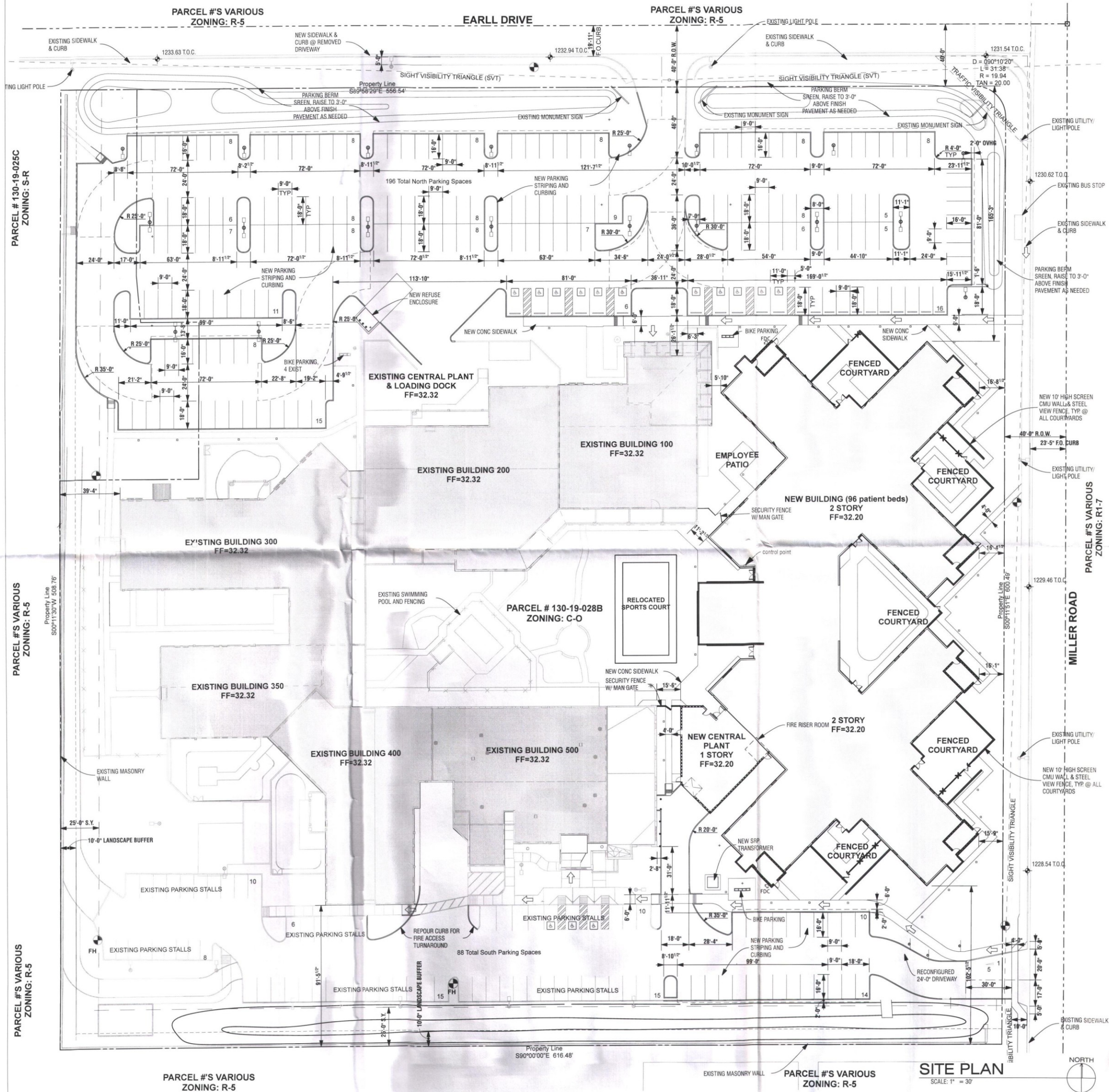
KEY PLAN











Project Data:

SITE LOT AREA:	
Gross:	456,500 s.f. (10.48 acres)
Net:	378,053 s.f. (8.68 acres)
PARCEL # & ZONING:	
Parcel #'s:	130-19-028A 130-19-028B
City Zoning Designation:	C-O
BUILDING AREA:	
Gross Floor Area New:	78,100 s.f.
Gross Floor Area Existing:	72,330 s.f.
Gross Floor Area Removed:	-9,415 s.f.
Total Gross Floor Area:	141,015 s.f.
ALLOWABLE FLOOR AREA:	
Floor Area Ratio:	0.80 maximum
Provided Floor Area Ratio:	0.38 (141,015 / 378,053)
OPEN SPACE AREA:	

[illegible]

PARKING CALCULATIONS:
 Parking Required:
 Existing Hospital = 58 beds x 1 space/bed = 58 spaces (pursuant to section number 9.102.C
 New In-Patient Building = 96 beds x 1.5 space/bed = 144 spaces (table 9.103.A)

Total Parking Required:	202 spaces
Parking Provided:	284 spaces
Accessible Parking Required:	
4% of Total Provided = $284 (.04) = 12$ spaces	
Accessible Parking Provided:	14 spaces

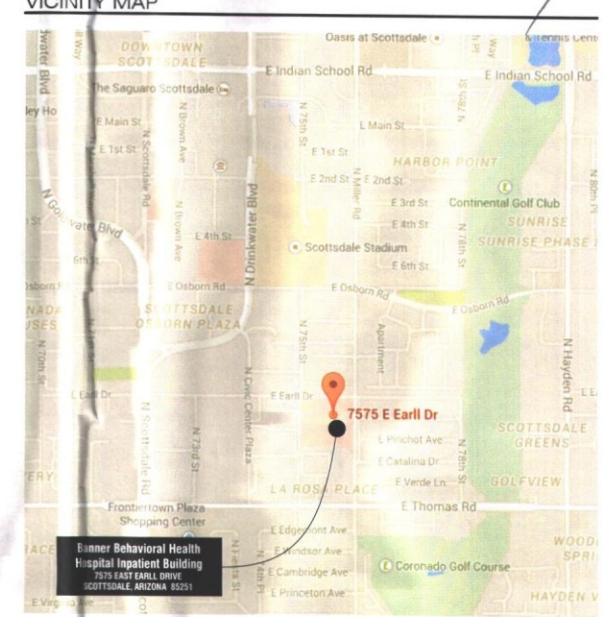
BICYCLE PARKING CALCULATIONS:
 Bicycle Parking Required:
 1 bicycle space per 10 parking spaces (202/10) = **21 spaces**
 Bicycle Parking Provided: **24 spaces**

Note: Bicycle racks to conform to City of Scottsdale Supplement to MAG Uniform Specifications for Public Works Construction Details (COS MAG Details), detail 2285. [Section 9.103.D. of the Zoning Ordinance and, Section 2-1.808.B.2 of the Design Standards & Policies Manual (DSPM) and COS Mag Detail 2285]

SITE PLAN LEGEND

- PRIMARY ACCESSIBLE ROUTE FROM SLO R.O.W.
SIDEWALK: RUNNING SLOPE MAX 1:20 AND CROSS
SLOPE MAX 1:48
- PARKING LOT LIGHT POLE/FIXTURES
- LIGHT BOLLARD
- LIGHT POLE/FIXTURE
- BIKE RACK
- FIRE DEPARTMENT CONNECTION
- EXISTING FLAG POLE
- FIRE HYDRANT
- STIPULATION SET
RETAIN FOR RECORDS
- APPROVAL
- 1-19-2015
DATE

VICINITY MAP



inslow

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BANNER HEALTH
Banner Behavioral Health
Hospital Inpatient Building
7575 EAST EMBURY DRIVE SCOTTSDALE, ARIZONA 85254

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PROJECT NO.	DATE OF ISSUE
2015_043	09.24.2015
REVISION NO.	DATE

PROJECT TEAM
mulhall

PROJECT PHASE
design review board application

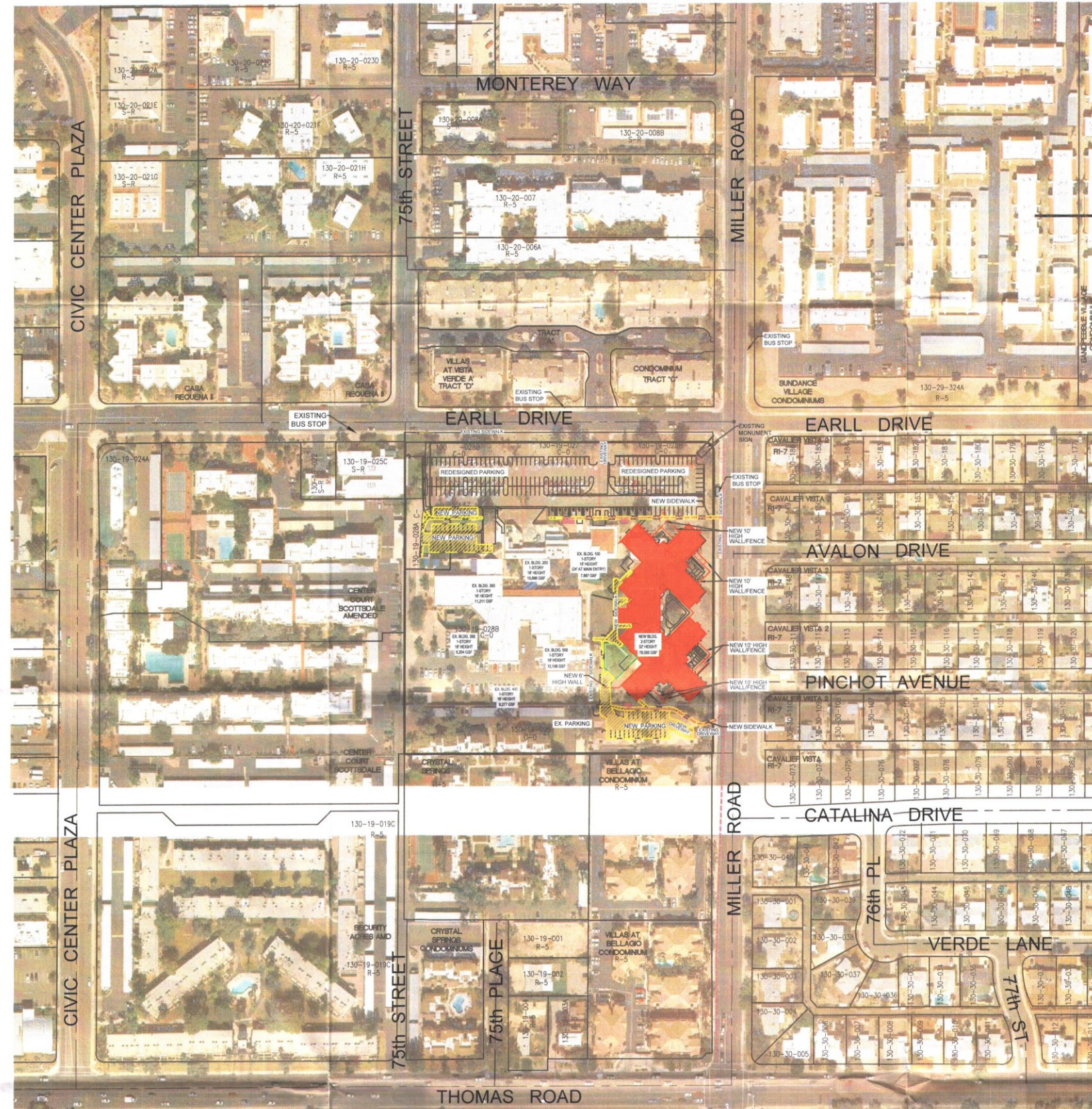
SHEET CONTENTS

architectural site plan

SHEET NO.

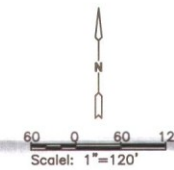
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51-DR-2015#2
9/24/15



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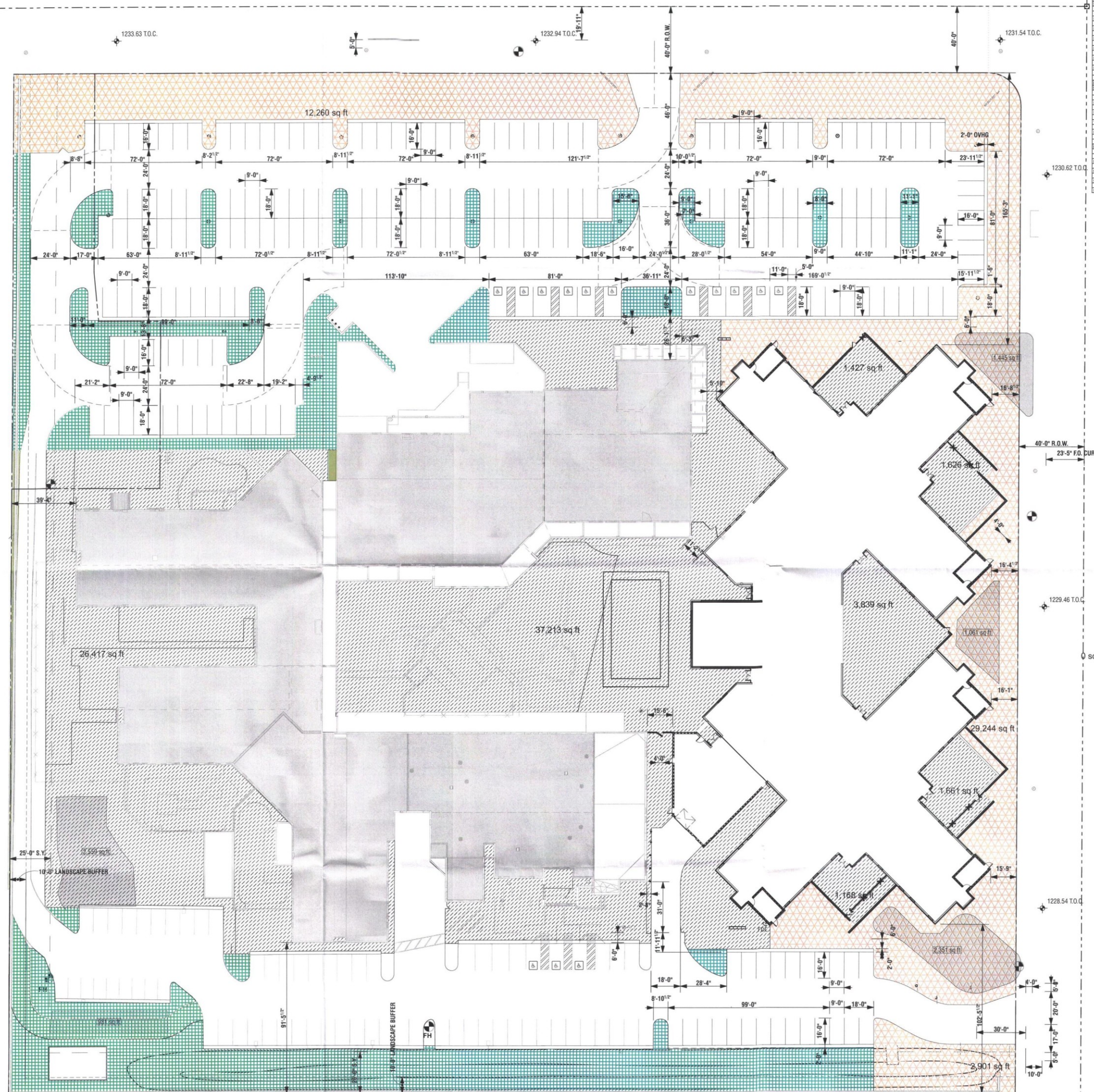
-  NEW 2-STORY BUILDING
(UP TO 96 PATIENT BEDS)
-  NEW CENTRAL PLANT
-  NEW PARKING/DRIVEWAY/SIDEWALK
-  NEW BIKE RACK (TYPICAL OF 3)
-  BIKE PATH
-  NEW WALL/FENCE



BANNER BEHAVIORAL HEALTH HOSPITAL
New Inpatient Building
Site Context Aerial – Neighborhood

orcutt | winslow

 **OKLAND**
CONSTRUCTION



OPEN SPACE CALCULATIONS Sec. 3.453-Additional conditions for specific conditional uses		REQUIRED	Per Zoning Ordinance Section	ACTUAL
	Calculations	Area	Unit	Unit
NET LOT AREA		378053	sf	
MINIMUM OPEN SPACE	378053 * .24 =	90732.72	sf min.	117,277 sf
PUBLIC STREET FRONTAGE		1228.41	linear feet	1228.41 linear feet
FRONTAGE MINIMUM	90732.72 * .75 =	68049.54	sf min.	
FRONTAGE MINIMUM	1228.41 * 30 =	36,852.30	sf min.	44505 sf
FRONTAGE NOT REQUIRED TO EXCEED	1228.41 * 50 =	61420.50	sf min.	44505 sf
OPEN SPACE CALCULATIONS Sec. 3.424-Property development standards		REQUIRED	Per Zoning Ordinance Section	ACTUAL
		Area	Unit	Unit
NET LOT AREA		378053	sf	
MINIMUM OPEN SPACE	378053 * .18 =	68049.54	sf min.	117,277 sf
TWO STORY MINIMUM OPEN SPACE	(20' * 60') / (378053 sf / 56707 sf min.) =	86952.18	sf min.	117,277 sf
FRONTAGE MINIMUM	86952.18 * .5 =	43476.09	sf min.	44505 sf
OPEN SPACE PARKING		REQUIRED	Per Zoning Ordinance Section	ACTUAL
		Area	Unit	Unit
NORTH PARKING LOT AREA		77115	sf	77115 sf
NORTH PARKING LOT LANDSCAPE	77115 * .15 =	11567.25	sf min.	14137 sf
SOUTH PARKING LOT AREA		31793	sf	31793 sf
SOUTH PARKING LOT LANDSCAPE	31793 * .15 =	4769.45	sf min.	10833 sf

OPEN SPACE LEGEND

FRONTAGE OPEN SPACE

BUILDING OPEN SPACE

PARKING LOT LANDSCAPE

EXISTING BUILDING

SURFACE RETENTION AREAS

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BANNER HEALTH
Banner Behavioral Health
Hospital Inpatient Building

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PROJECT NO.	DATE OF ISSUE
2015 043	09.24.2015

REVISION NO. DATE

PROJECT TEAM	DRAWN BY
mulhall	team

PROJECT PHASE

design review board application

SHEET CONTENTS

open space plan

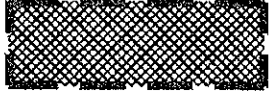
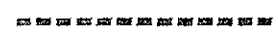
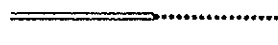
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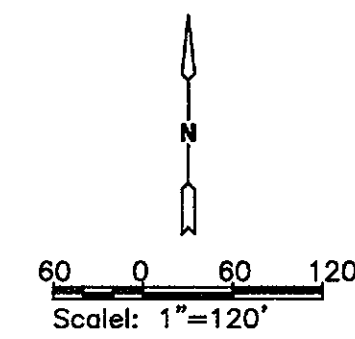
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51-DR-2015#2
9/24/15



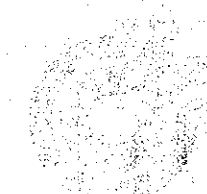
LEGEND:

-  NEW 2-STORY BUILDING
(UP TO 96 PATIENT BEDS)
-  NEW CENTRAL PLANT
-  NEW PARKING/DRIVEWAY/SIDEWALK
-  NEW BIKE RACK (TYPICAL OF 3)
-  BIKE PATH
-  NEW WALL/FENCE



BANNER BEHAVIORAL HEALTH HOSPITAL
New Inpatient Building
Site Context Aerial – Neighborhood

orcutt|winslow

 **OKLAND**

ALTA/ACSM LAND TITLE SURVEY
FOR
BANNER BEHAVIORAL HEALTH HOSPITAL (7507 E. EARLL DRIVE, SCOTTSDALE, AZ 85251)
A PORTION OF THE SOUTHWEST QUARTER OF SECTION 26, TOWNSHIP 2 NORTH, RANGE 4 EAST,
GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

GENERAL NOTES

- THIS SURVEY WAS PREPARED IN ACCORDANCE WITH FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT FOR TITLE INSURANCE ORDER NO. NCS-733351-PHX1 DATED JUNE 5, 2015.
- THIS SITE IS ZONED C-O (COMMERCIAL OFFICE DISTRICT) PER THE CITY OF SCOTTSDALE PLANNING AND DEVELOPMENT SERVICES DEPARTMENT.
- EXISTING UNDERGROUND UTILITIES WERE COMPILED FROM THE BEST AVAILABLE UTILITY RECORDS AND SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND POSSIBLY INCOMPLETE. EXACT LOCATION MUST BE DETERMINED IN THE FIELD.
- UTILITY SERVICES AVAILABLE TO THIS SITE ARE AS FOLLOWS:

MAP NO.	PROVIDER	QS NO.
WATER	CITY OF SCOTTSDALE	13-45
SANITARY SEWER	CITY OF SCOTTSDALE	13-45
ELECTRIC	ARIZONA PUBLIC SERVICE	
TELEPHONE	QWEST COMMUNICATIONS	
GAS	SOUTHWEST GAS CORP.	
CABLE T.V.	COX COMMUNICATIONS	
- THIS SITE IS BENEFITED AND BURDENED BY THE FOLLOWING EXCEPTIONS FROM SCHEDULE B - SECTION 2 THAT PERTAIN TO MATTERS OF LAND SURVEYING:
 - RESTRICTIONS, DEDICATIONS, CONDITIONS, RESERVATIONS, EASEMENTS AND OTHER MATTERS SHOWN ON THE PLAT OF SECURITY ACRES AMENDED, AS RECORDED IN PLAT BOOK 8, PAGE(S) 59, BUT DELETING ANY COVENANT, CONDITION OR RESTRICTION INDICATING A PREFERENCE, LIMITATION OR DISCRIMINATION BASED ON RACE, COLOR, RELIGION, SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN TO THE EXTENT SUCH COVENANTS, CONDITIONS OR RESTRICTIONS VIOLATE 42 USC 3604(C). (NO EASEMENTS TO PLOT, AFFECTS SUBJECT PARCEL)
 - RESTRICTIONS, DEDICATIONS, CONDITIONS, RESERVATIONS, EASEMENTS AND OTHER MATTERS SHOWN ON THE PLAT OF SCOTTSDALE TENNIS CLUB, AS RECORDED IN PLAT BOOK 169, PAGE(S) 29; THEREAFTER RELEASE OF EASEMENT RECORDED AS DOCKET 12522, PAGE 368; THEREAFTER RELEASE OF EASEMENT RECORDED AS DOCKET 12553, PAGE 312; THEREAFTER QUITCLAIM DEED RELEASING EASEMENT RECORDED AS DOCKET 12676, PAGE 365 AND THEREAFTER ABANDONMENT RECORDED AS DOCKET 13175, PAGE 1387, BUT DELETING ANY COVENANT, CONDITION OR RESTRICTION INDICATING A PREFERENCE, LIMITATION OR DISCRIMINATION BASED ON RACE, COLOR, RELIGION, SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN TO THE EXTENT SUCH COVENANTS, CONDITIONS OR RESTRICTIONS VIOLATE 42 USC 3604(C). (TO THE BEST OF THE SURVEYOR'S KNOWLEDGE ALL EASEMENTS DEDICATED PER THE PLAT HAVE EITHER BEEN RELEASED OR ABANDONED. NOTHING TO PLOT, AFFECTS SUBJECT PARCEL)
 - AN EASEMENT FOR UNDERGROUND WATER LINES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED AS DOCKET 13125, PAGE 1140. (PLOTTED, AFFECTS SUBJECT PARCEL)
 - THE TERMS AND PROVISIONS CONTAINED IN THE DOCUMENT ENTITLED "DUMPSTER SERVICE AGREEMENT" RECORDED AUGUST 31, 1999 AS 99-0824264 OF OFFICIAL RECORDS. (NO EASEMENT DESCRIBED IN DOCUMENT, NOT PLOTTED, AFFECTS SUBJECT PARCEL)
 - THE TERMS AND PROVISIONS CONTAINED IN THE DOCUMENT ENTITLED "EASEMENT AGREEMENT" RECORDED AUGUST 31, 1999 AS 99-0824265 OF OFFICIAL RECORDS. (PLOTTED, AFFECTS SUBJECT PARCEL)

REFERENCE MATERIAL

- MARICOPA COUNTY GDACS PLAT PER BOOK 734, PAGE 10, RECORDS OF MARICOPA COUNTY, ARIZONA.
- PLAT FOR SCOTTSDALE TENNIS CLUB PER BOOK 169, PAGE 29, RECORDS OF MARICOPA COUNTY, ARIZONA.
- PLAT FOR VILLAS AT VISTA VERDE PER BOOK 443, PAGE 04, RECORDS OF MARICOPA COUNTY, ARIZONA.
- PLAT FOR CENTER COURT, SCOTTSDALE AMENDED PER BOOK 377, PAGE 17, RECORDS OF MARICOPA COUNTY, ARIZONA.

LEGAL DESCRIPTION

PARCEL NO. 1:
TRACTS A, B AND C, SCOTTSDALE TENNIS CLUB, ACCORDING TO BOOK 169 OF MAPS, PAGE 29, RECORDS OF MARICOPA COUNTY, ARIZONA;

EXCEPTING THEREFROM ANY PORTION LYING WITHIN THE FOLLOWING DESCRIBED PARCEL: THAT PART OF TRACT 'C', SCOTTSDALE TENNIS CLUB, ACCORDING TO BOOK 169 OF MAPS, PAGE 29, RECORDS OF MARICOPA COUNTY, ARIZONA, DESCRIBED AS FOLLOWS:

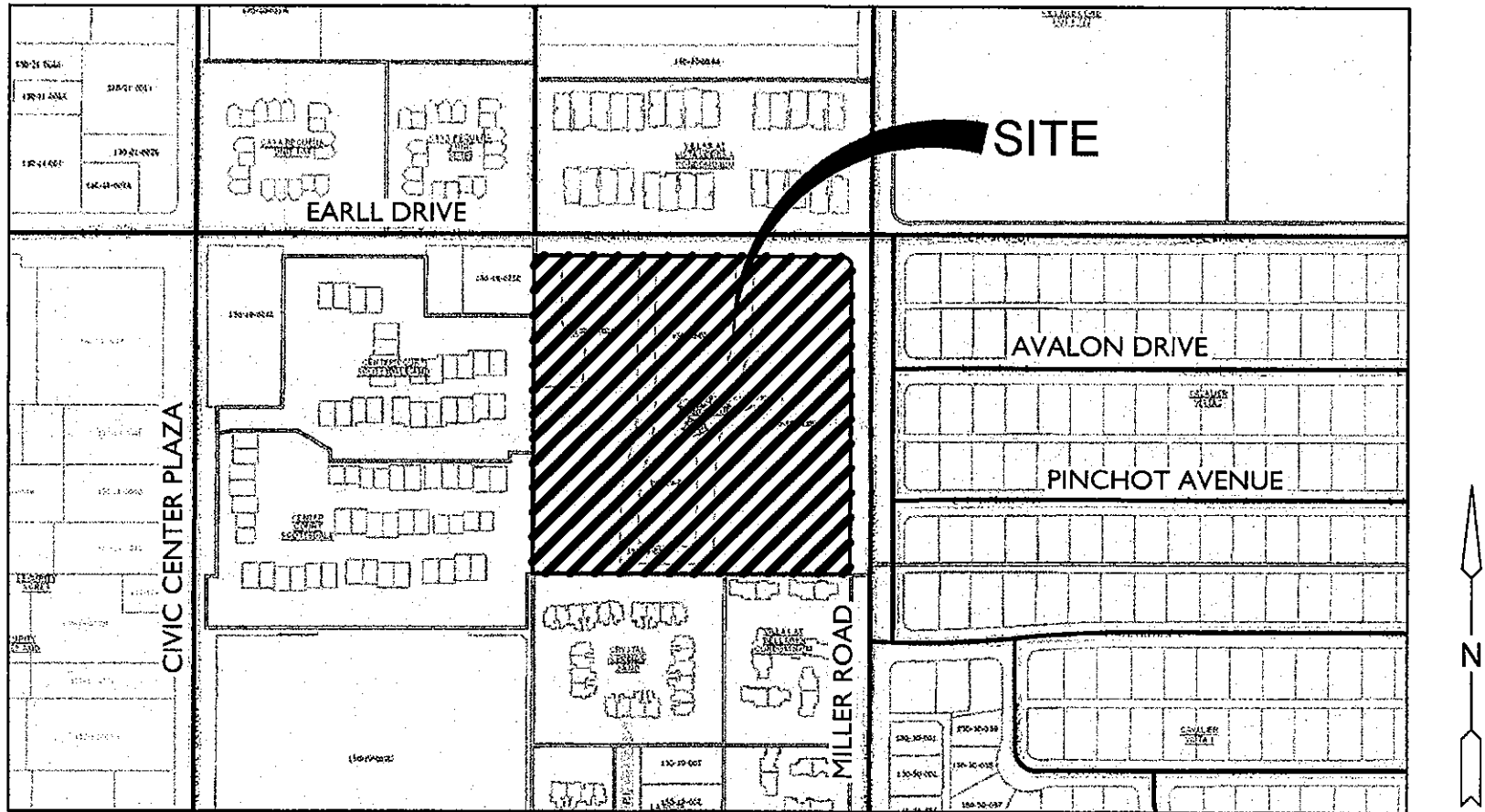
BEGINNING AT THE NORTHWEST CORNER OF SAID TRACT 'C';
THENCE NORTH 89° 52' 18" EAST (NORTH 89° 52' 17" EAST RECORD) ALONG THE NORTH LINE OF SAID TRACT 'C' A DISTANCE OF 49.50 FEET;
THENCE SOUTH 00° 01' 39" WEST A DISTANCE OF 120.73 FEET;
THENCE SOUTH 05° 22' 12" EAST A DISTANCE OF 31.68 FEET;
THENCE NORTH 89° 52' 19" EAST A DISTANCE OF 38.02 FEET;
THENCE SOUTH 00° 01' 37" WEST A DISTANCE OF 100.00 FEET;
THENCE SOUTH 89° 52' 17" WEST A DISTANCE OF 90.55 FEET (90.50 FEET RECORD) TO A POINT ON THE WEST LINE OF SAID TRACT 'C';
THENCE NORTH 00° 02' 17" EAST (NORTH 00° 01' 38" EAST RECORD) A DISTANCE OF 252.28 FEET TO THE TRUE POINT OF BEGINNING.

LEGAL DESCRIPTION

PARCEL NO. 2:
THAT PART OF TRACT 'C', SCOTTSDALE TENNIS CLUB, ACCORDING TO BOOK 169 OF MAPS, PAGE 29, RECORDS OF MARICOPA COUNTY, ARIZONA, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID TRACT 'C';
THENCE NORTH 89° 52' 18" EAST (NORTH 89° 52' 17" EAST RECORD) ALONG THE NORTH LINE OF SAID TRACT 'C' A DISTANCE OF 40.00 FEET TO THE TRUE POINT OF BEGINNING;

THENCE CONTINUING NORTH 89° 52' 18" EAST ALONG THE NORTH LINE OF SAID TRACT 'C' A DISTANCE OF 9.50 FEET;
THENCE SOUTH 00° 01' 39" WEST A DISTANCE OF 120.73 FEET;
THENCE SOUTH 05° 22' 12" EAST A DISTANCE OF 31.68 FEET;
THENCE NORTH 89° 52' 19" EAST A DISTANCE OF 38.02 FEET;
THENCE SOUTH 00° 01' 37" WEST A DISTANCE OF 100.00 FEET;
THENCE SOUTH 89° 52' 17" WEST A DISTANCE OF 90.55 FEET (90.50 FEET RECORD) TO A POINT ON THE WEST LINE OF SAID TRACT 'C';
THENCE NORTH 00° 02' 17" EAST (NORTH 00° 01' 38" EAST RECORD) A DISTANCE OF 140.28 FEET TO THE SOUTHEAST CORNER OF THE EAST 140 FEET OF THE NORTH 132 FEET OF LOT 8, BLOCK 14, SECURITY ACRES AMENDED, ACCORDING TO BOOK 8 OF MAPS, PAGE 59, RECORDS OF MARICOPA COUNTY, ARIZONA;
THENCE NORTH 89° 52' 18" EAST A DISTANCE OF 40.00 FEET;
THENCE NORTH 00° 02' 17" EAST PARALLEL WITH AND 40 FEET EAST OF THE WEST LINE OF TRACT 'C' A DISTANCE OF 112.00 FEET TO THE TRUE POINT OF BEGINNING.



VICINITY MAP
N.T.S.

LEGEND

	MONUMENT LINE / CENTERLINE		STREET LIGHT
	PROPERTY LINE		TRANSFORMER PAD
	RIGHT-OF-WAY LINE		SANITARY SEWER CLEANOUT
	EASEMENT LINE		WATER VALVE
	EXISTING SANITARY SEWER LINE		DOUBLE CHECK VALVE
	EXISTING WATER LINE		WATER METER
	EXISTING STORM DRAIN LINE		FIRE HYDRANT
	BLUE STAKED TELEPHONE		IRRIGATION CONTROL BOX
	WALL		DRYWELL
	FENCE		IRRIGATION CONTROL VALVE
	EXISTING BUILDING		TELEPHONE PEDESTAL
	MICROWAVE MOTION SENSOR		TELEPHONE MANHOLE
	POINT OF BEGINNING		STORM DRAIN MANHOLE
	ASSESSORS PARCEL NUMBER		SANITARY SEWER MANHOLE
	MARICOPA COUNTY RECORDER		SCHEDULE "B" ITEM NUMBER
	RECORDED DOCUMENT NUMBER		LANDSCAPE LIGHT
	POST INDICATOR VALVE		BOLLARD
	BOOK		WATER MANHOLE
	EASEMENT		ELECTRIC MANHOLE
	RIGHT OF WAY		MONUMENT
	DOCUMENT		PAVEMENT PAINT MARKINGS
	ELECTRIC BOX		
	SIGN (SMALL)		

SURVEYOR

LITTLEJOHN ENGINEERING ASSOCIATES
7227 NORTH 16TH STREET, SUITE 140
PHOENIX, AZ 85020
PHONE: 602.241.0782
TLAVALLETTE@LEAINC.COM

CLIENT

ORCUTT WINSLOW PARTNERS
3003 NORTH CENTRAL AVENUE
PHOENIX, AZ 85012
CONTACT: BILL SHEELY

AREA STATEMENT

NET AREA PARCEL 1 109,735.008 SQ. FT. OR 2.519 ACRES, MORE OR LESS

FLOODPLAIN NOTE

THE SUBJECT PARCEL LIES WITHIN FLOOD ZONE "X" AS DELINEATED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM MAP NO. 04013C2235L DATED OCTOBER 16, 2013.

FLOOD ZONE "X" IS DEFINED AS AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEEVES FROM 1% ANNUAL CHANCE FLOOD.

BASIS OF BEARINGS

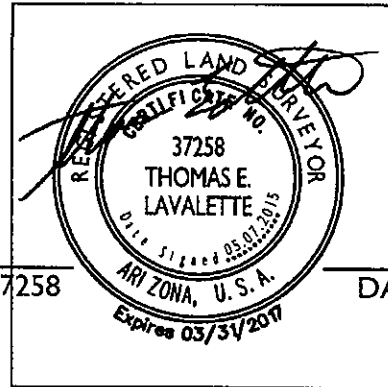
A BEARING OF 600°03'27"W ALONG THE NORTH - SOUTH CENTERLINE OF SECTION 22, T. 3 N., R. 5 E. PER THE PLAT FOR MOUNTAINSIDE PLAZA PER BOOK 632 OF MAPS, PAGE 30, RECORDS OF MARICOPA COUNTY, ARIZONA/

SURVEYOR'S CERTIFICATION

TO:
DISCOVERY HEALTH SYSTEM, A NORTH DAKOTA NON PROFIT CORPORATION
FIRST AMERICAN TITLE INSURANCE COMPANY, INC.
AND THEIR RESPECTIVE SUCCESSORS AND ASSIGNS

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1-5, 6(A), 6(B), 7(C), 8-9, 10(A), 10(B), 11(A), 11(B), 14, 20 & 21 OF TABLE A THEREOF.

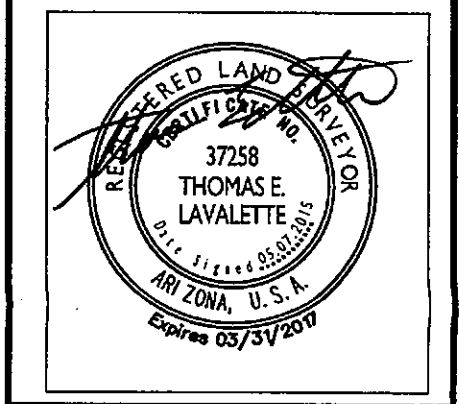
THOMAS E. LAVALLETTE RLS #37258 DATE



Littlejohn
An S&ME Company
7227 N. 16th Street, Suite 140, PHOENIX, ARIZONA 85020
T 602.241.0782 F 602.248.9158
www.lea-inc.com

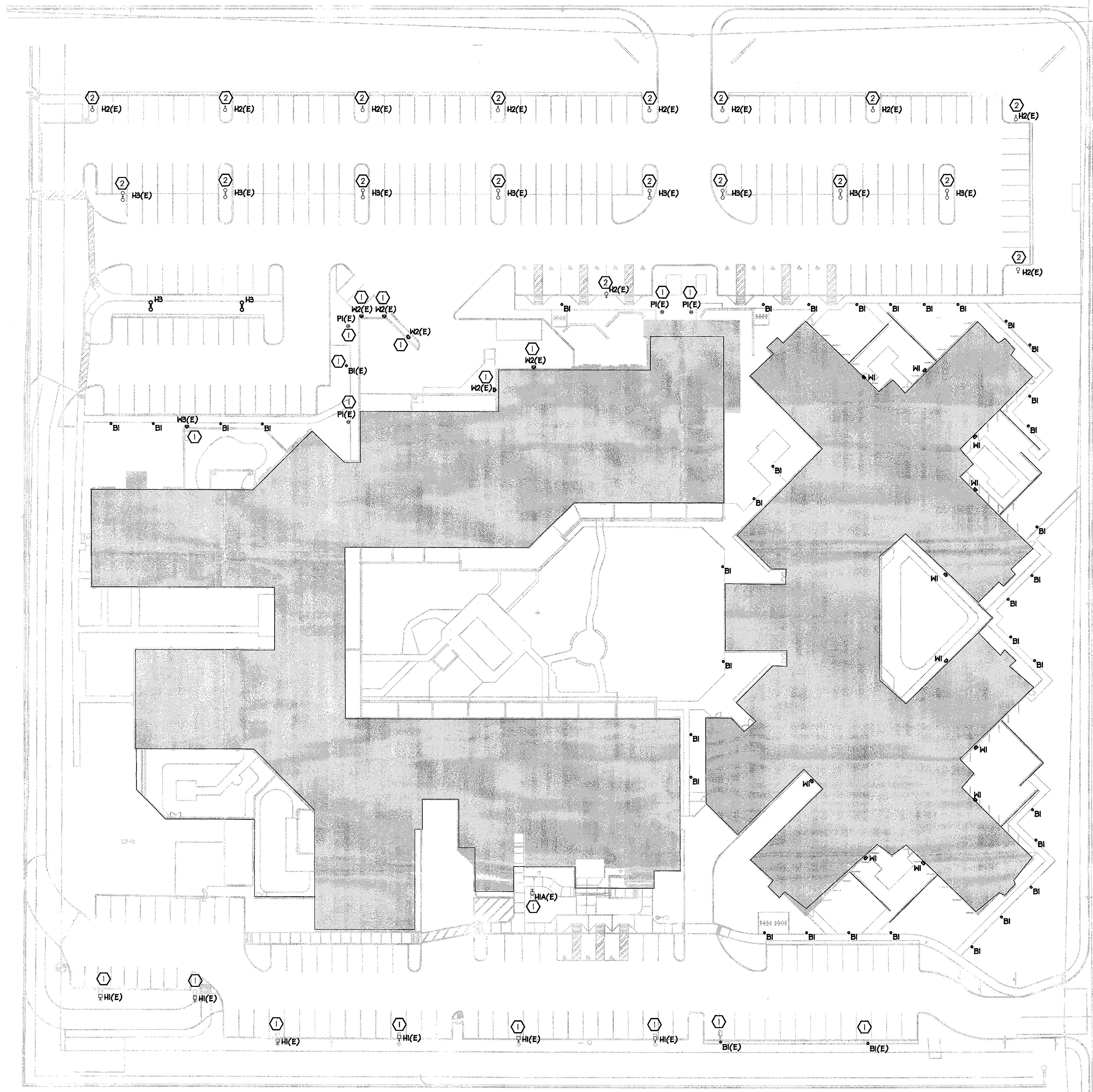
ALTA/ACSM LAND TITLE SURVEY
OF
BANNER BEHAVIORAL HEALTH HOSPITAL
7507 E. EARLL DRIVE, SCOTTSDALE, AZ 85251
LOCATED WITHIN THE SOUTHWEST QUARTER OF SECTION 26, TOWNSHIP 2 NORTH, RANGE 4 EAST
OF THE GILA & SALT RIVER BASE & MERIDIAN, MARICOPA COUNTY, ARIZONA

ORCUTT WINSLOW
PARTNERS
3003 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
CONTACT: MR. BILL SHEELY



DATE	REVISIONS
07.17.2015	20150549

1 OF 2
PRELIMINARY
ALTA/ACSM LAND
TITLE SURVEY
51-DR-2015#2
9/24/15



- LIGHTING NOTES:**
- GENERAL NOTES:**
1. REFER TO DRAWINGS E021 FOR LIGHT FIXTURE SCHEDULE AND DETAILS.
- KEYED NOTES:**
1. RELOCATED EXISTING LIGHT FIXTURE.
 2. EXISTING LIGHT FIXTURE TO REMAIN.

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orcutt winslow

SEAL
RICHARD M. SEGER
09.24.15
EXPIRES 03-31-2017

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3300 N. Central Ave, STE 1520
Phoenix, AZ 85012
TL 602.606.7432

BANNER HEALTH
Banner Behavioral Health
Hospital Inpatient Building
7575 EAST EARLL DRIVE, SCOTTSDALE, ARIZONA 85251

CLIENT CONTACT

Bill Smith 480.226.9947
2145 W. Southern Ave. 480.412.4219
Mesa, Arizona 85202 bill.smith@bannerhealth.com

PROJECT NO.	DATE OF ISSUE
2015_043	09.24.2015
REVISION NO.	DATE

PROJECT TEAM	DRAWN BY
mulhall	rs/dt/lo

PROJECT PHASE
design review board application

SHEET CONTENTS
SITE LIGHTING PLAN

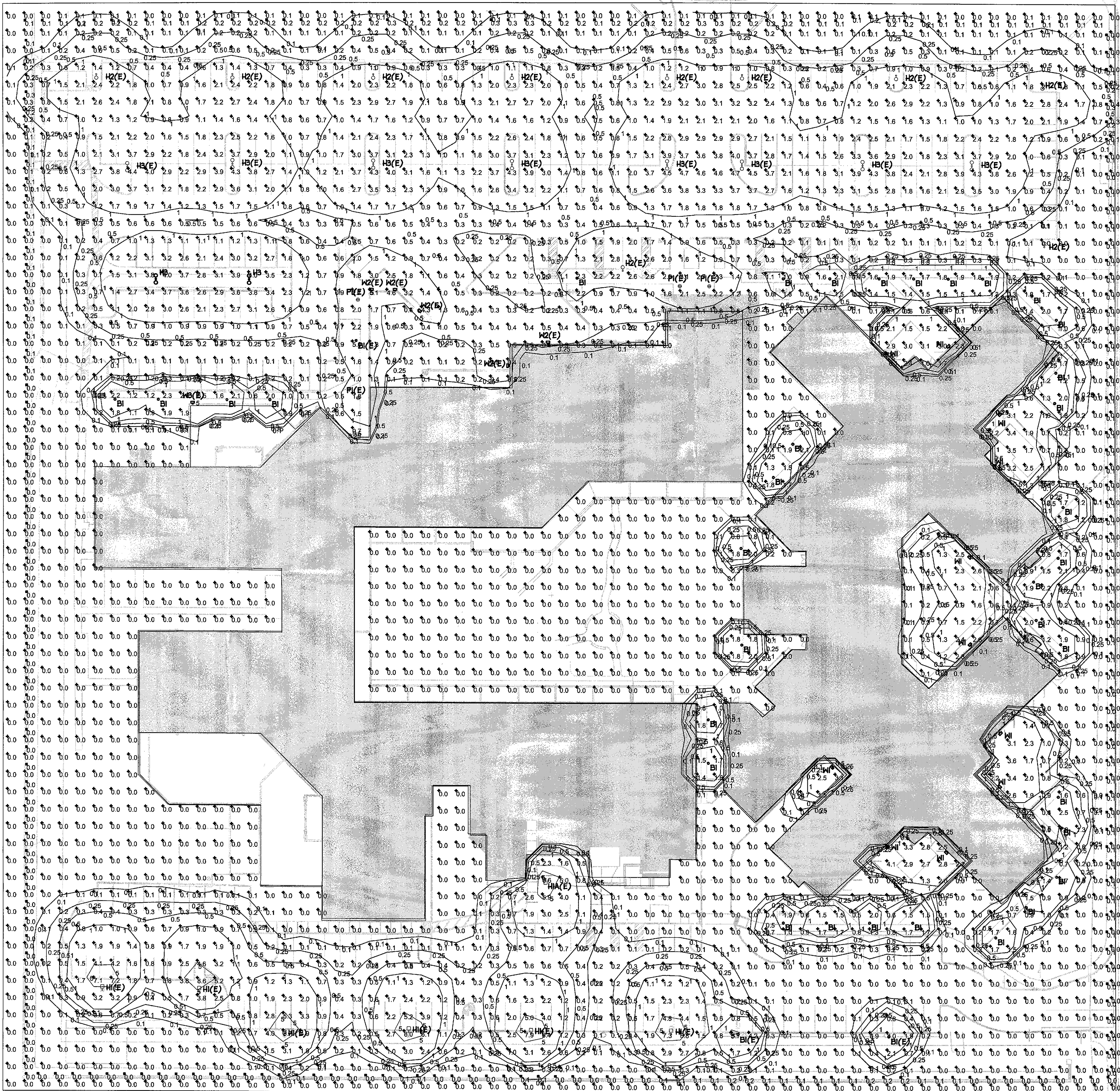
SHEET NO.

E011

51-DR-2015#2
9/24/15

STIPULATION SET
RETAIN FOR RECORDS

APPROVED
11-19-2015
ATE



NORTH
SITE LIGHTING PHOTOMETRIC CALCULATION PLAN
SCALE: 1" = 30'-0"

LIGHTING NOTES:
GENERAL NOTES:
1. REFER TO DRAWINGS E021 FOR LIGHT FIXTURE SCHEDULE AND DETAILS.

LIGHTING CALCULATION STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Site Calculation	+	0.7 fc	8.7 fc	0.0 fc	N/A	N/A
North Property Line	■	0.2 fc	0.3 fc	0.0 fc	N/A	N/A
East Property Line	■	0.1 fc	0.3 fc	0.0 fc	N/A	N/A
South Property Line	■	0.0 fc	0.2 fc	0.0 fc	N/A	N/A
West Property Line	■	0.0 fc	0.3 fc	0.0 fc	N/A	N/A

STIPULATION SET
RETAIN FOR RECORDS

APPROVED
DATE
INITIALS

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SEGER
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ARIZONA, USA
Expires 03-31-2017

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BANNER HEALTH
Banner Behavioral Health
Hospital Inpatient Building
7575 EAST EARL DRIVE, SCOTTSDALE, ARIZONA 85251

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PROJECT NO. 2015_043
DATE OF ISSUE 09.24.2015

REVISION NO. DATE

PROJECT TEAM mulhall
DRAWN BY rs/dt/lo

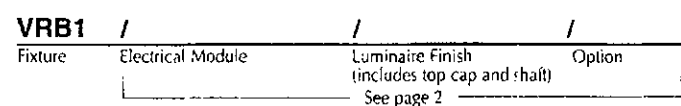
PROJECT PHASE design review board application

SHEET CONTENTS

SITE LIGHTING
PHOTOMETRIC PLAN
SHEET NO.

E012
51-DR-2015#2
9/24/15

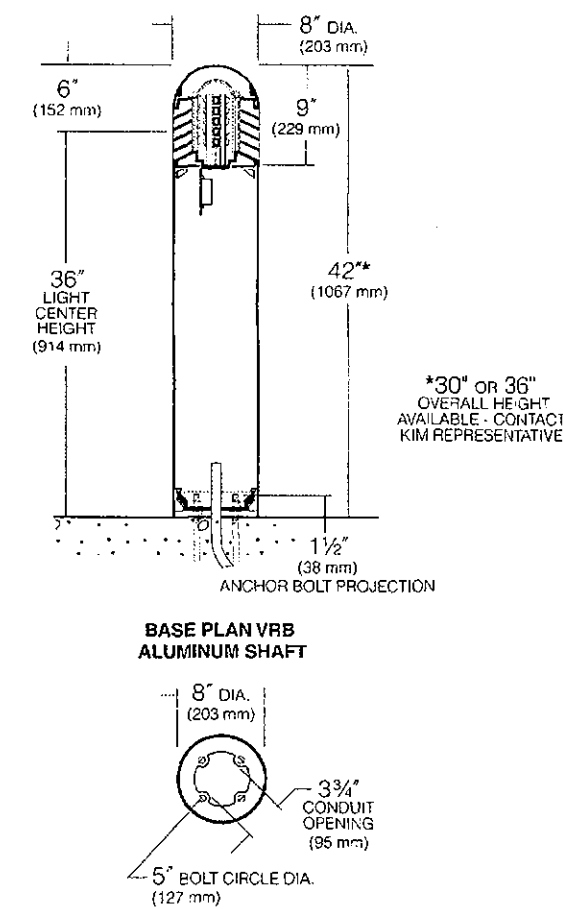
Type:
Job:
Catalog number: **VRB1/20L/4K/UV/BL**



Specifications

VRB-LED Models
10 - 20 Diodes

VRB1 - Single Function Luminaire (Aluminum Shaft)
Maximum weight: 30 lb



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VRB1 LED Round Bollard

Single Function, Vandal-Resistant, Aluminum Shaft

revision 8/7/14 • kl_vrb1led_spec.pdf

Approvals:

Date:
Page: 1 of 3

Domed Top Cap: One-piece die-cast aluminum secured to louvers by concealed allen screws in keyhole slots. For relamping access, allen screws shall not require complete removal.

Louvers: Aluminum die-cast with vertical support ribs at 90° intervals. Horizontal louver blades shall have a 1 1/4" depth, a 65° upward pitch and provide light source cutoff above horizontal. Louver assembly shall be secured to shaft by four internal tie rods.

Lamp Enclosure: One-piece tempered molded glass with internal flutes and full gasketing at bottom edge.

Fixture Head: Allows flow-through ventilation around and above the lamp enclosure.

Shaft: One-piece extruded aluminum, .125" wall thickness with a heavy cast aluminum twist-lock anchor base concealed within the shaft. Concealed set screws shall lock shaft onto the cast anchor base.

Electronic Module: All electrical components are either UL or ETL recognized, mounted on a single plate and factory prewired with quick disconnect plugs. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

Optical Module: Each LED equipped with a directional optic for maximum beam angle projecting through louver stack spacings. LED boards to be mounted to an anodized inter-locking heat sink extrusion. (Type I) two 5-LED boards for a total of 10-LED. (Type II) three 5-LED boards for a total of 15-LED. (Type V) four 5-LED boards for a total of 20-LED. Available in 580nm Amber, 3000K, 4200K and 5100K color temperatures.

Anchor Bolts: Four 3/4" x 10" + 2" zinc plated L-hooks, each with two nuts, washers and a rigid pressed board template.

Finish: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SC) Stealth Gray, (LG) Light Gray, and (CC) Custom Color (include RAL).

Listed to: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires. RoHS compliant. Meets Buy American provisions within ARRA.

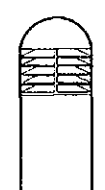
Warranty: Kim Lighting warrants Bollard LED products sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of five (5) years for exterior housing paint finishes, (iii) a period of five (5) years for LED Light Engines and, (iv) a period of five (5) years for LED power components (driver, surge protector and Lifeshield® device), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

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Type:
Job:

Page: 2 of 3



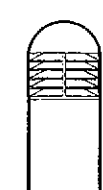
Standard and Optional Features

Fixture	Cat. No. VRB1 Single Function, Aluminum Shaft, Domed Top
Electrical Module LED = Light Emitting Diode	Cat. Nos. for LED Electrical Modules available: xl Source: ☐ 10L = 10 LED (IES Type I) ☐ 15L = 15 LED (IES Type II) ☐ 20L = 20 LED (IES Type V) xK Color Temperature: ☐ 2K = 580nm - Amber ☐ 3K = 3000K ☐ 4K = 4200K ☐ 5K = 5100K UV Voltage: ☐ UV Universal Voltage shall range from 120V-277V
Finish TGIC thermoset polyester powder coat paint applied over a titanated zirconium conversion coating on fixture and shaft.	Color: Black Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color* Cat. No.: ☐ BL ☐ DB ☐ LG ☐ SG ☐ PS ☐ WH ☐ CC NOTE: Black and Dark Bronze colors will produce slightly less louver brightness than Light Gray or White. *Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description:
Battery Back-up Cat. No. ☐ EM ☐ No Option	Internal battery pack provides 90 minutes of supplemental light at 50% of initial lamp lumens. battery back-up
Optional Duplex Receptacle Cat. No. ☐ DR ☐ DR-GFI ☐ No Option	Mounted 18" from bottom of shaft, in a cast aluminum box that is internally welded and sealed with a gasketed White-In-Use cover with locking tab. Painted to match bollard. DR weather proof duplex receptacle rated 20A, 125V. DR-GFI weather proof duplex receptacle with ground fault circuit interrupter rated 20A, 125V.
0-10V Dimming Interface	Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation w/HUBB®. Approved dimmers include Lutron Diva AVTV, Lutron Nova NTV and NTVTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.

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Type:
Job:

Page: 3 of 3



Lumen Data

Spectroradiometric				Projected Lumen Maintenance		
	3000K Average	4200K Average	5100K Average	mA	50,000 hrs	100,000 hrs
Correlated Color Temp. CCT (K)	2800K - 3175K	3800K - 4600K	4600K - 5600K	335mA	N/A	N/A
Color Rendering Index (CRI)	>90	>90	>90	Based on 20LED version.		
Power Factor	>.90	>.90	>.90			

Electrical Drive Current - @1350mA							
Type 1			Type 3		Type 5		
Volts - AC	Amps - AC	System Watts	Amps - AC	System Watts	Amps - AC	System Watts	
120	0.11	13	0.16	19	0.21	25	
208	0.06	13	0.09	19	0.12	25	
240	0.05	13	0.08	19	0.10	25	
277	0.05	13	0.07	19	0.09	25	

B.U.G. Rating (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare			
Temperature	TYPE 1	TYPE 3	TYPE 5
3000K	B1 U2 G1	B1 U2 G1	B1 U2 G1
4200K	B1 U2 G1	B1 U2 G1	B1 U2 G1
5100K	B1 U2 G1	B1 U2 G1	B1 U2 G1

Absolute Lumens			
Temperature	TYPE 1	TYPE 3	TYPE 5
3000K	396	567	811
4200K	491	703	1005
5100K	515	739	1057

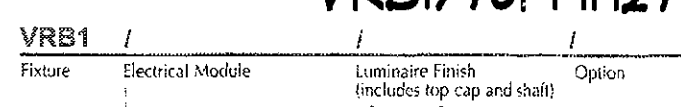
LED performance and lumen output continues to improve at a rapid pace. Log onto www.lumiflighting.com to download the most current photometric files from Kim Lighting's iES File Library. For custom optics and color temperature configurations, contact factory.

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FIXTURE TYPE B1

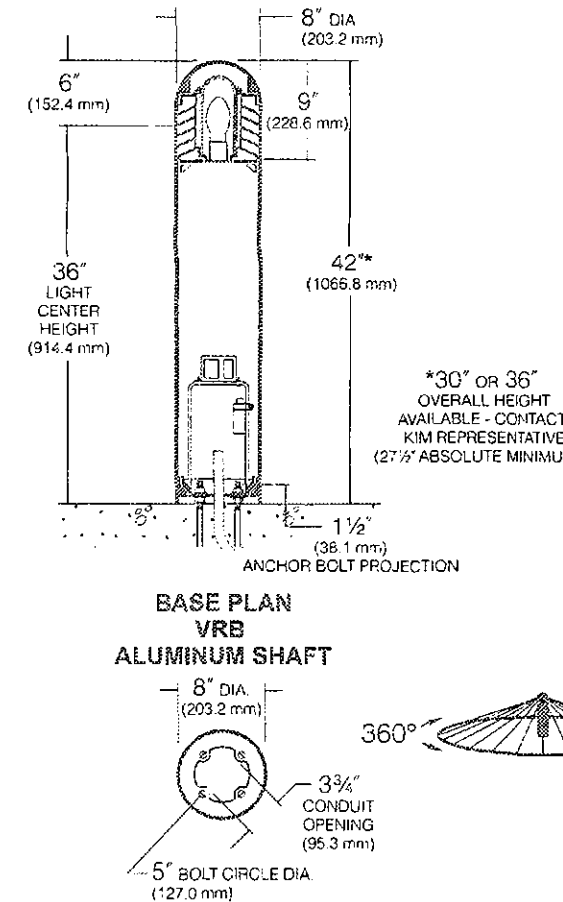
Type:
Job:
Catalog number: **VRB1/70PMH277/BL**



Specifications

VRB Models
70 to 100 watt
Medium Base Lamps
42 watt Compact Fluorescent

VRB1 - Single Function Luminaire (Aluminum Shaft)
Maximum weight: 30 lb



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VRB1 Round Bollard

Single Function, Vandal-Resistant, Aluminum Shaft

revision 3/6/13 • kl_vrb1_spec.pdf

Approvals:

Date:
Page: 1 of 3

Domed Top Cap: One-piece die-cast aluminum secured to louvers by concealed allen screws in keyhole slots. For relamping access, allen screws shall not require complete removal.

Louvers: Aluminum die-cast with vertical support ribs at 90° intervals. Horizontal louver blades shall have a 1 1/4" depth, a 65° upward pitch and provide light source cutoff above horizontal. Louver assembly shall be secured to shaft by four internal tie rods.

Lamp Enclosure: One-piece tempered molded glass with internal flutes and full gasketing at bottom edge.

Socket: Porcelain medium base socket rated 4KV for HID and incandescent. Plastic socket for Fluorescent.

Fixture Head: Allows flow-through ventilation around and above the lamp enclosure.

Shaft: One-piece extruded aluminum, .125" wall thickness with a heavy cast aluminum twist-lock anchor base concealed within the shaft. Concealed set screws shall lock shaft onto the cast anchor base.

Ballast: Factory mounted to rigid harness attached to the anchor base. Wiring shall be supplied from the socket for field connection to the prewired ballast components. **HID:** High power factor with starting temperatures of -20°F. for PMH and -40°F. for HPS lamp models. **20W, 32W, 42W Fluorescent:** High power factor with starting temperature of 0°F.

Anchor Bolts: Four 3/4" x 10" + 2" zinc plated L-hooks, each with two nuts, washers and a rigid pressed board template.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

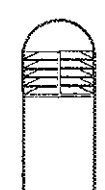
CAUTION: Fixtures must be grounded in accordance with national, state and/or local codes. Failure to do so may result in serious personal injury.

Listings and Ratings		
UL CUL 1598®	FS = Fully Shielded®	25C Ambient
IP46 Rated		CE

*Available for wet locations
*Dark Sky Legislation Compliant
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Type:
Job:

Page: 2 of 3



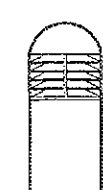
Standard and Optional Features

Fixture	Cat. No. VRB1 Single Function, Aluminum Shaft, Domed Top																																						
Electrical Module PMH = Pulse Start Metal Halide HPS = High Pressure Sodium PL = Compact Fluorescent Lamp Lamp Line Watts Type Volts 100 PMH 120	Cat. Nos. for Electrical Modules available: <table><tr><td>☐ 70PMH120</td><td>☐ 100PMH120</td><td>☐ 70HPS120</td><td>☐ 100HPS120</td></tr><tr><td>☐ 70PMH1208</td><td>☐ 100PMH1208</td><td>☐ 70HPS208</td><td>☐ 100HPS208</td></tr><tr><td>☐ 70PMH1240</td><td>☐ 100PMH1240</td><td>☐ 70HPS240</td><td>☐ 100HPS240</td></tr><tr><td>☐ 70PMH277</td><td>☐ 100PMH277</td><td>☐ 70HPS277</td><td>☐ 100HPS277</td></tr><tr><td>☐ 70PMH347</td><td>☐ 100PMH347</td><td>☐ 70HPS347</td><td>☐ 100HPS347</td></tr></table> <table><tr><td>Lamp</td><td>E-17, Coated</td><td>E-17, Coated</td><td>ED-17, Coated</td><td>ED-17, Coated</td></tr><tr><td>Socket</td><td>Medium Base</td><td>Medium Base</td><td>Medium Base</td><td>Medium Base</td></tr><tr><td>ANSI Ballast Type</td><td>M-98</td><td>M-90</td><td>S-62</td><td>S-54</td></tr></table> ☐ 42PPL Lamp: Compact Fluor. Socket: GX24q-4				☐ 70PMH120	☐ 100PMH120	☐ 70HPS120	☐ 100HPS120	☐ 70PMH1208	☐ 100PMH1208	☐ 70HPS208	☐ 100HPS208	☐ 70PMH1240	☐ 100PMH1240	☐ 70HPS240	☐ 100HPS240	☐ 70PMH277	☐ 100PMH277	☐ 70HPS277	☐ 100HPS277	☐ 70PMH347	☐ 100PMH347	☐ 70HPS347	☐ 100HPS347	Lamp	E-17, Coated	E-17, Coated	ED-17, Coated	ED-17, Coated	Socket	Medium Base	Medium Base	Medium Base	Medium Base	ANSI Ballast Type	M-98	M-90	S-62	S-54
☐ 70PMH120	☐ 100PMH120	☐ 70HPS120	☐ 100HPS120																																				
☐ 70PMH1208	☐ 100PMH1208	☐ 70HPS208	☐ 100HPS208																																				
☐ 70PMH1240	☐ 100PMH1240	☐ 70HPS240	☐ 100HPS240																																				
☐ 70PMH277	☐ 100PMH277	☐ 70HPS277	☐ 100HPS277																																				
☐ 70PMH347	☐ 100PMH347	☐ 70HPS347	☐ 100HPS347																																				
Lamp	E-17, Coated	E-17, Coated	ED-17, Coated	ED-17, Coated																																			
Socket	Medium Base	Medium Base	Medium Base	Medium Base																																			
ANSI Ballast Type	M-98	M-90	S-62	S-54																																			
NOTE: For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.																																							
Finish Super TGIC thermoset polyester powder coat paint applied over a titanated zirconium conversion coating on fixture and shaft.	Color: Black Dark Bronze Light Gray Stealth Gray™ Platinum Silver White Custom Color Cat. No.: ☐ BL ☐ DB ☐ LG ☐ SG ☐ PS ☐ WH ☐ CC NOTE: Black and Dark Bronze colors will produce slightly less louver brightness than Light Gray or White. *Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description:																																						
Optional Houseside Shield Cat. No. ☐ HS ☐ No Option	180° trimmable houseside shield that inserts inside lamp enclosure. .032" thick natural aluminum, trimmable in field. 																																						
Optional Emergency Battery Back-up Cat. No. ☐ EM ☐ No Option	Internal battery pack provides 90 minutes of supplemental light at 23% of initial lamp lumens for 26, 32, or 42 watt compact fluorescent lamps.  battery back-up																																						

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Type:
Job:

Page: 3 of 3



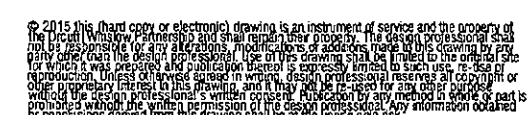
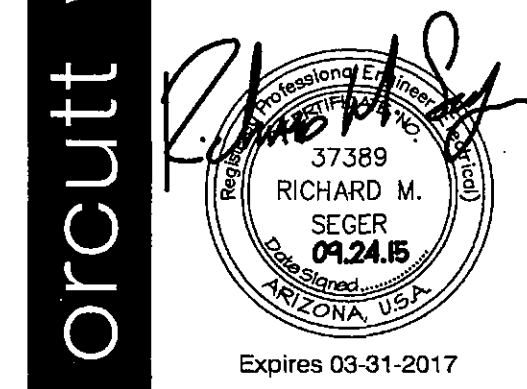
Standard and Optional Features

Cold-Pack Emergency Battery Pack Cat. No. ☐ EM-CP ☐ No Option	The EM-CP option is a temperature controlled ballast designed to maintain operation without interruption within a range of h/w ambient temperatures, -20°C to +55°C. Internal Cold-Pack emergency battery pack provides up to 90 minutes of supplemental light. See following table for max. lumens output by lamps. Lamp (4-Pin) 1 lamp lumens <table> <tr> <td>42W</td><td>750</td></tr> <tr> <td>32W</td><td>575</td></tr> <tr> <td>26W</td><td>450</td></tr> </table> cold-pack battery back-up	42W	750	32W	575	26W	450
42W	750						
32W	575						
26W	450						
Optional Duplex Receptacle Cat. No. ☐ DR ☐ DR-GFI ☐ No Option	Mounted 18" from bottom of shaft, in a cast aluminum box that is internally welded and sealed with a gasketed White-In-Use cover with locking tab. Painted to match bollard. DR weather proof duplex receptacle rated 20A, 125V. DR-GFI weather proof duplex receptacle with groundfault circuit interrupter rated 20A, 125V.						

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Mesa, Arizona 85202 bill.smith@bannerhealth.com

PROJECT NO. **2015_043** DATE OF ISSUE **09.24.2015**

REVISION NO. DATE

PROJECT TEAM **mulhall** DRAWN BY **rs/dt/lo**

PROJECT PHASE **design review board application**

SHEET CONTENTS

SITE LIGHTING FIXTURE
CUT SHEETS

SHEET NO. **52 of 828**

E031

51-DR-2015#2
9/24/15

FIXTURE TYPE B2E - EXISTING

KIM LIGHTING

Type:
Job:
Catalog number: **FM/NS1H5/70MH277/BL-P**

FM / NS1H5 / 70MH277 / BL-P

Fig. Pole Electrical Module Finish Fusing Options Pole*

See page 3 See page 4 See page 4

*Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

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Approvals:

Date:
Page: 1 of 4

Specifications

Single Mount: EPA = 1.0; Max weight = 30 lb
Double Mount: EPA = 3.0; Max weight = 70 lb

Flush Mount (FM)
Typical Horizontal Lamp Reflector shown

Pole Tenon Mount (PT)

Housing: One piece die-cast aluminum with integral hinge and support arm extensions that continue upward from the lens frame. Housing hinges upward for lamp and ballast access, and is held in the open position by a stainless steel self-locking stop arm freeing both hands for servicing. Hinge pin is stainless steel and the housing gasket is one piece silicone.

Lens Frame: One piece die-cast aluminum with integral hinge and four sets of twin support arms at 90° intervals. Support arms form a spherical shape and blend with the housing support arm extensions. A single stainless steel socket head screw is held captive between two support arms for securing the housing. Lens is clear 3/4" thick injection molded UV stabilized acrylic hemisphere. Lens is held in the lens frame by stainless steel clips and sealed by a one piece silicone gasket. The integral support hub contains a field-splice compartment, a silicone gasketed cover and one of two pole attachment means, flush post top mounting or pole tenon mounting.

Horizontal Lamp Reflector Modules H2, H3, H4, H5: Specular Alzak® optical segments rigidly mounted in an aluminum frame which snaps in and out of the housing as a one piece module. All "H" reflector modules are interchangeable. Sockets are porcelain medium base rated 4KV. Sockets are prewired to a quick-disconnect plug for the electrical module, optical chamber is totally sealed by silicone gaskets at the Housing/Lens Frame interface.

Vertical Lamp Reflector Module V3, V5: Specular Alzak® optical segments mounted within a one piece spun aluminum shell. Reflector modules attach to housing with keyhole slots and are interchangeable. Sockets are porcelain medium base rated 4KV. Sockets are prewired to a quick-disconnect plug for the electrical module, optical chamber is totally sealed by silicone gaskets at the Housing/Lens Frame interface.

Electrical Module: All electrical components are UL and CSA recognized, mounted on a single aluminum plate with keyhole slots for quick attachment or removal from the housing. All components are prewired to quick-disconnect plugs, and all ballasts are high power factor rated for -40°F. (HPS) and -20°F. (MH) starting. Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.

Finish: Super TGIC thermoplastic polyester powder coat paint, 2.5 mil nominal thickness, applied over a chromate conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

Certification: UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is audited to ISO9001 standards.

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FIXTURE TYPE PIE - EXISTING

SPALDING

Type:
Job:
Catalog number: **TRP-30L4K-053-4-U-BL-PC**

TRP-30L4K-053-4-U-BL-PC

Fig. Pole Electrical Module Finish Fusing Options Pole*

See page 3 See page 4 See page 4

*Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

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Date:
Page: 1 of 4

Specifications

Applications:
• Architectural wallpack in style Trapezoid shape with modular contact to accommodate building architecture. Provides excellent illumination in energy saving LED systems.

Construction:
• Die-cast aluminum housing and door
• Seven powder coat standard finishes, plus custom color options

LED:
• 30 high power LEDs deliver up to 5,062 lumens
• Up to 100 lumens per watt
• Variety ofIES distribution patterns - Type II, III, and IV (Forward Throw)

Operating Temperature:
• -40°C/-40°F to 40°C/104°F for 350mA
• -30°C/-22°F to 40°C/104°F for 520mA

Electrical:
• Two driver options: 34w at 350mA (1 driver) and 53w at 520mA (1 driver)
• 120-277VAC, 50/60Hz

Electrical (Cont.):
• Power factor ≥ 90%
• THD (Total Harmonic Distortion) <20%
• 10 VA, 10 VA, 270 Joules surge suppressor

Controls:
• Drivers are 0-10V dimming standard. Photocell and occupancy sensor options available for complete control and dimming control

Listings:
• UL 1581 listed for use in wet locations
• All and 5K models meet Dimmable Light Source (DLS) qualifications, consult DLS website for more details: <http://www.dimmablelightsource.com>
• Zero light (0L), dark sky, neighbor friendly
• Drivers IP66 and RoHS compliant

TRP-BBU Egress Wallpack:
Designed to meet strict 16 minimum requirements. At 12" mounting height 16 covers 16x16 (8' area), well beyond the 10x10 (4' area) standard. No light, external test button, 120V or 277V only. Rated -30°C to 35°C

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

PRODUCT IMAGES

SHIPPING INFORMATION

Shipping Number	Length (in)	Width (in)	Height (in)	Weight (lb)
TRP	16 (7.3)	18.5 (4.7)	9.5 (2.4)	11.5 (2.9)

CERTIFICATIONS/LISTINGS

UL, ENEC, DLC

ORDERING INFORMATION

ORDERING EXAMPLE: TRP-30L5K-053-2-U-BL

FAMILY	# OF LEDs	WATT	DRIVE CURRENT	DISTRIBUTION	VOLTAGE	FINISH	CONTROL OPTIONS	OPTIONS
TRP Trapezoid	30	3000K	350mA	2 Type II	0 120V-277V	02 Custom Color	02 Photocell	02 Integral battery for 120 or 277V only rated for -20°C to 35°C (Must specify individual voltage)
	4K	4000K	520mA	3 Type II	2 240V	03 Bronze	03 No light output	03 Fusing (Must specify individual voltage)
	5K	5000K		4 Type IV	4 277V	04 White	04 Programmable motion control, factory default is 10% light output	

* Most specify individual voltage for BBU, PC and Fusing options
* Most order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight collection and different time delay settings, 120V or 277V only
* Custom factory for Custom Color option
* UL qualification for wet locations only
* PC option not applicable, indicated in table
* BBU only available in TRP-30L5K, Type II, 120V or 277V

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FIXTURE TYPE WI

KIM LIGHTING

Type:
Job:
Catalog number: **FM/NS1H5/70MH277/BL-P**

FM / NS1H5 / 70MH277 / BL-P

Fig. Pole Electrical Module Finish Fusing Options Pole*

See page 3 See page 4 See page 4

*Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

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Page: 1 of 4

Standard Features

Mounting: Cat. No.: ☒ FM Flush Mount ☐ PT Tenon Mount ☐ 2SB Twin Mount ☐ 1W Wall Mount

Fixture: Cat. No.: ☐ NS1H2 ☐ NS1H3 ☐ NS1V3 ☐ NS1H4 ☐ NS1H5 ☐ NS1V5

H = Horizontal Lamp
V = Vertical Lamp

Electrical Module: HPS = High Pressure Sodium, MH = Metal Halide

Color: Black, Dark Bronze, Light Gray, Platinum Silver, White, *Custom Color
Cat. No.: ☒ BL-P ☐ DB-P ☐ LG-P ☐ PS-P ☐ WH-P ☐ CC-P

Optional Features

Fusing: Cat. No.: ☐ SF Single Fusing (SF) for 120V, 277V, 347V only. ☐ DF Double Fusing (DF) for 208V, 240V only. ☐ No Option

Photocell Control (see right): ☐ No Option

Polycarbonate Lens: Cat. No.: ☐ CP ☐ No Option

Houseside Shield: Cat. No.: ☐ HS ☐ No Option

Wall Mounting: Cat. No.: ☐ WEB ☐ No Option

Poles: ☐ No Option

Photocell Control (see right)

Photocell is factory prewired inside fixture housing with sensor located externally between two support ribs. For twin arm mount, each fixture has a photocell.

Supplied with a one piece clear UV stabilized 3/4" thick injection molded polycarbonate hemispherical lens replacing standard acrylic lens. Full silicone gasketed top and bottom.

NOTE: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight and metal halide lamps.

For horizontal lamp reflectors, a louvered shield is provided in stamped clear anodized aluminum to pass streetside light while restricting houseside light. For vertical lamp reflector V3 only, a dished clear anodized aluminum shield is provided. Shields are factory installed to the reflector. Not for use on Type V Square (H5) distribution.

The optional Wall Embedment Bracket (WEB) is for Wall Mount (1W) only. WEB is for casting into poured-in-place concrete walls. Bracket is zinc plated steel with receptacles for two 3/8" bolts provided.

See Kim Pole Catalog for a complete selection of square and round poles in aluminum or steel.

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SPALDING

Type:
Job:
Catalog number: **TRP-30L4K-053-4-U-BL-PC**

TRP-30L4K-053-4-U-BL-PC

Fig. Pole Electrical Module Finish Fusing Options Pole*

See page 3 See page 4 See page 4

*Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

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Date:
Page: 1 of 4

ACCESSORIES - Order separately

SCIP-RECYCLED: Recycle control for SCP option. Order at least one per project to program and control.

BB-GE0-XX: Back box with 4 - 1/2" threaded conduit holes, specify finish, eg. Dark Bronze - DB

* Most order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight collection and different time delay settings, 120V or 277V only

* Supply finish, eg. Dark Bronze - DB

PERFORMANCE DATA

# OF LEDs	DRIVE CURRENT	SYSTEM WATTS	DIST. TYPE	5K (5000K nominal, 67 CRI)		4K (4000K nominal, 70 CRI)		3K (3000K nominal, 80 CRI)	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
30	350mA	34w	2	3549	104	3191	93	2404	71
			3	3553	105	3191	94	2443	72
			4	3459	102	3081	91	2375	70
	520mA	53w	2	4935	93	4466	84	3420	65
			3	5052	96	4557	86	3452	65
			4	4907	92	4363	82	3382	63

Lumen values are from photometric tests performed at 100° beam spread (40° beam spread) in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment, application and performance tolerances of the electrical components. Please consult IESNA for BBU ratings.

ELECTRICAL DATA

# OF LEDs	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (W)	CURRENT (Amps)
30	1	350mA	120	34	0.29
		277	34	0.12	
		520mA	277	53	0.18

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	50,000	75,000	100,000	L70 (hours)
25°C / 77°F	1.00	0.98	0.97	0.96	0.95	>774,000
40°C / 104°F	0.99	0.96	0.95	0.95	0.93	>625,000

* IESNA 2788, 700mA, 85°C to 10,000hrs
Data references the unencapsulated performance specifications for the TRP base model in 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

PHOTOMETRIC REPORTS

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BANNER HEALTH
Banner Behavioral Health
Hospital Inpatient Building
7575 EAST EARL DRIVE, SCOTTSDALE, ARIZONA 85251

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PROJECT NO. 2015_043 **DATE OF ISSUE** 09.24.2015

REVISION NO. **DATE**

PROJECT TEAM mulhall **DRAWN BY** rs/dt/lo

PROJECT PHASE design review board application

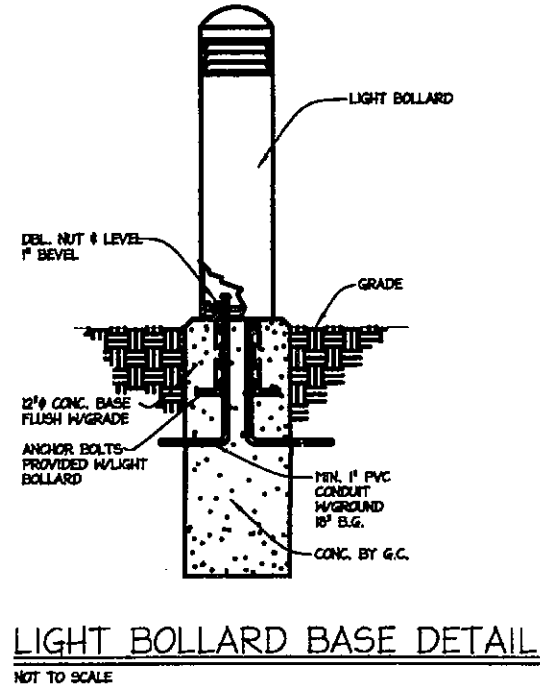
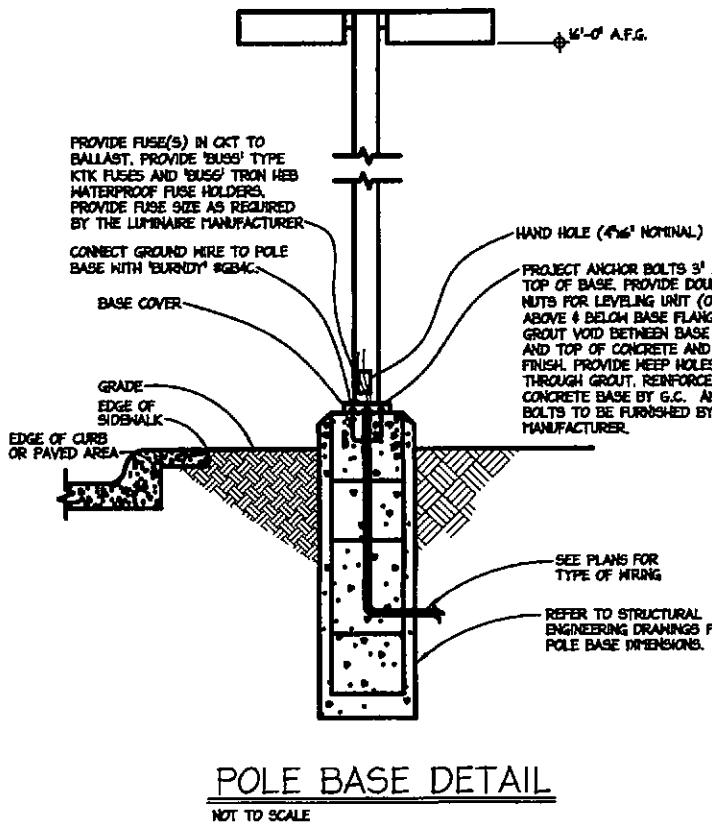
SHEET CONTENTS

SITE LIGHTING FIXTURE CUT SHEETS P1E-W1

SHEET NO. E033

93-DR-2015#2
9/24/15

LIGHT FIXTURE SCHEDULE											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp		Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	B1	35	KIM LIGHTING	VRB1-20L4K	VANDAL RESISTANCE ROUND BOLLARD LED CAST ALUMINUM DOME AND LOUVERS. ATTACHED TO AN ALUMINUM RISER. TEMPERED CLEAR GLASS.	20 LEDS, 4200K.	1	vb1-20Hk.lss	1005.058	0.8	24.2
	B2E	3	KIM LIGHTING	VRB1/100PMH-ED17	VANDAL-RESISTANT ROUND BOLLARD LUMINAIRE CAST ALUM CAP & LOUVER ASSEMBLY WITH ALUM OR CONCRETE SHAFT	100 WATT PMH COATED ED-17 MED BASE, VERT.	1	vb1-100p.lss	7800	0.7	100
	H1E	7	SPAULDING LIGHTING	RCS-x-P15-H4	OUTDOOR ARCHITECTURAL ROADWAY REF. HAMMERTONE ALUMINUM ENCL. CLEAR FLAT GLASS	150W MET HAL ED 28	1	RCS-x-P15-H4.lss	12800	0.7	189
	H2E	9	Lithonia Lighting	MR1 LED 42C 350 40K SR2 MVOLT	MR1 AREA LIGHT 42 LEDx 350 mA DRIVE CURRENT 40K COLOR TEMP TYPE 2 DISTRIBUTION	HLM LIGHT ENGINE	1	MR1_LED_42C_350_40K_SR2_MVOLT.lss	5127.416	0.8	40
	H3	2	Lithonia Lighting	MR1 LED 42C 350 40K SR2 MVOLT	MR1 AREA LIGHT 42 LEDx 350 mA DRIVE CURRENT 40K COLOR TEMP TYPE 2 DISTRIBUTION	HLM LIGHT ENGINE	1	MR1_LED_42C_350_40K_SR2_MVOLT.lss	5127.416	0.8	98
	H3E	8	Lithonia Lighting	MR1 LED 42C 350 40K SR2 MVOLT	MR1 AREA LIGHT 42 LEDx 350 mA DRIVE CURRENT 40K COLOR TEMP TYPE 2 DISTRIBUTION	HLM LIGHT ENGINE	1	MR1_LED_42C_350_40K_SR2_MVOLT.lss	5127.416	0.8	98
	P1E	4	KIM LIGHTING	NS1H2/70PMH-ED17	NEOSPHERE AREA & PATH LUMINAIRE DIE CAST ALUM. REFLECTOR SYSTEM WITH SPECULAR PANELS DIE CAST ALUM. HOUSING AND LENS FRAME CLEAR HEMISPHERICAL ACRYLIC LENS	70 WATT COATED, PMH ED17 MEDIUM BASE LAMP, HORIZONTAL POSITION, RATED AT 4750 INITIAL LUMENS	1	ns1h2-070pc_Globe.lss	4750	0.7	70
	W1	11	SPAULDING LIGHTING	TRP-30L3K-053-4	TRP GEOMETRIC SCONCE 4000K, 525 mA, TYPE 4 LENS	30- NICHIA LEDS 4000K	1	TRP-30L3K-053-4.lss	3178.835	0.8	50
	W2E	5	Lithonia Lighting	TWP 70M	DIE-CAST GENERAL PURPOSE WALLPACK WITH POLYCARBONATE REFRACTOR	ONE 70-WATT CLEAR ED-17 METAL HALIDE, HORIZONTAL POSITION	1	TWP_70M.lss	5200	0.7	95
	W3E	1	NULITE	EJL-175MH	CAST ALUMINUM HOUSING, FORMED SEMI-SPECULAR HAMMERTONE ALUMINUM REFLECTOR, CLEAR GLASS ENCLOSURE	ONE CLEAR HORIZONTAL MS7 175 WATT METAL HALIDE LAMP RATED AT 14,000 LUMENS.	1	EJL-175MH.lss	5200	0.7	175



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BANNER HEALTH
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PROJECT NO. 2015_043

DATE OF ISSUE 09.24.2015

REVISION NO.

DATE

PROJECT TEAM mulhall

DRAWN BY rs/dt/lo

PROJECT PHASE design review board application

SHEET CONTENTS SITE LIGHTING DETAILS

SHEET NO. E021

51-DR-2015#2
9/24/15

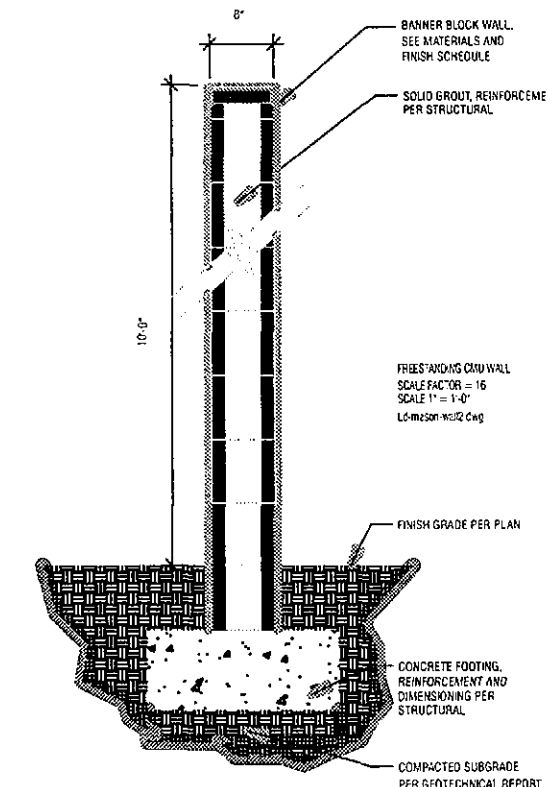
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APPROVED
11-19-2015
DATE

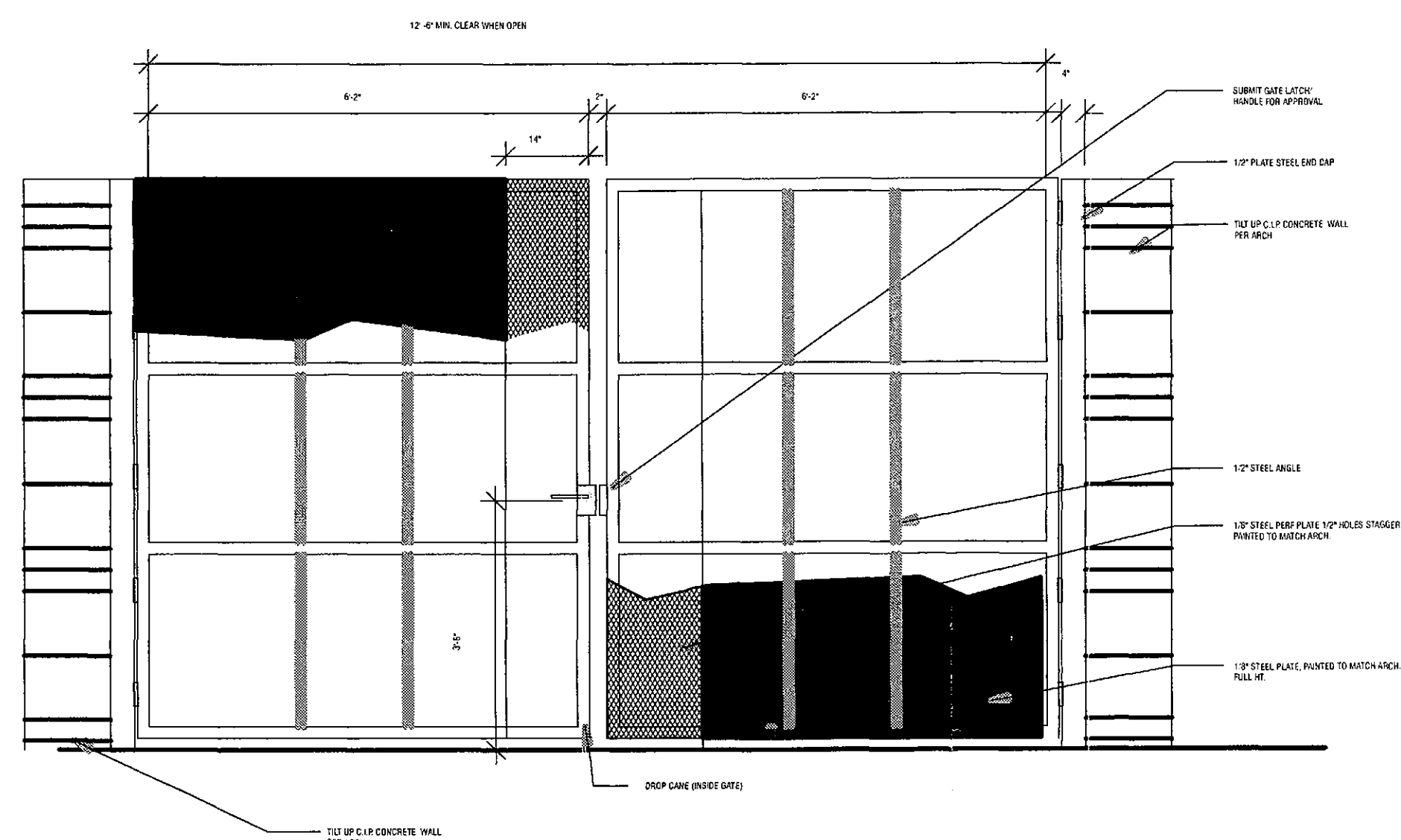
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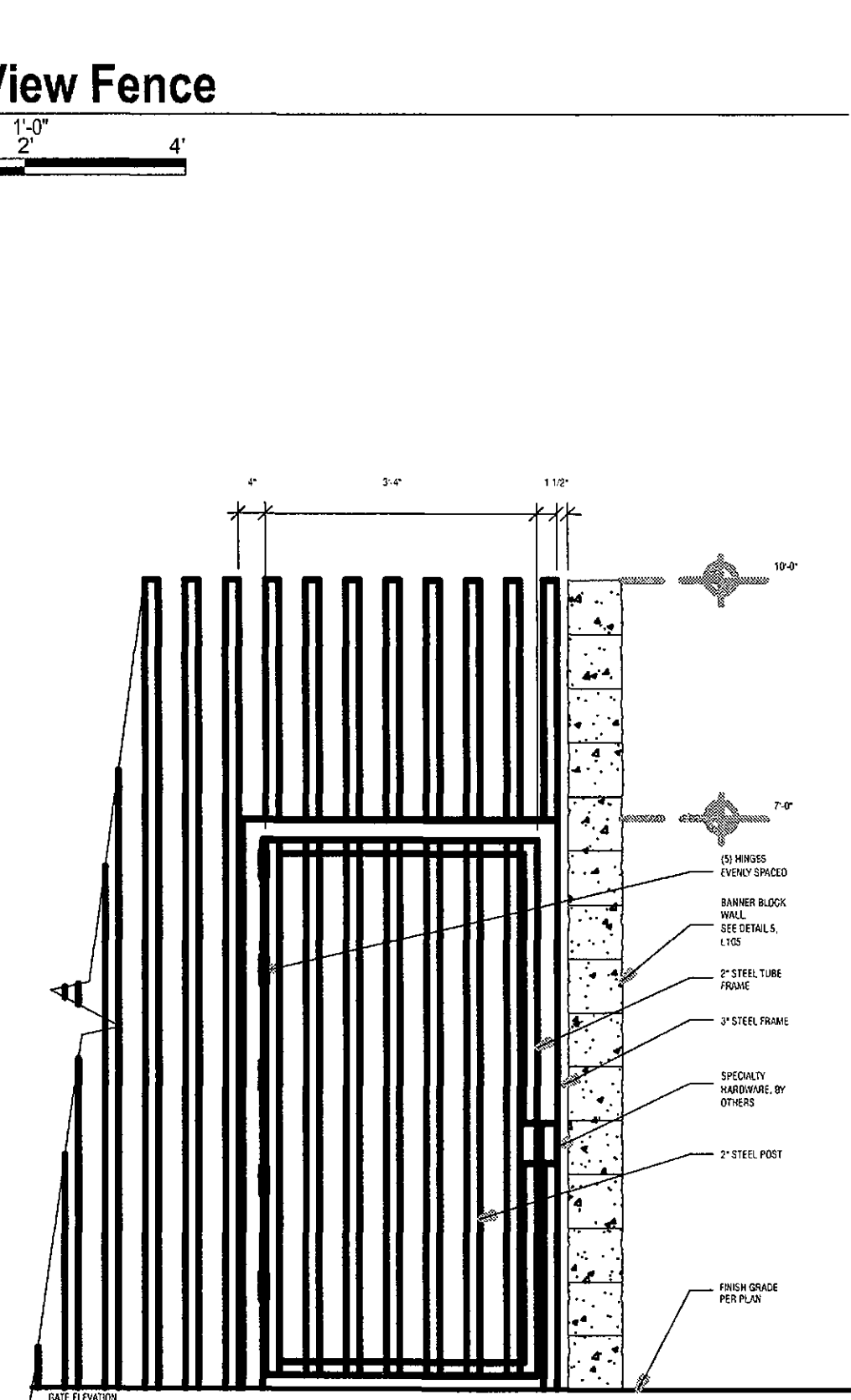
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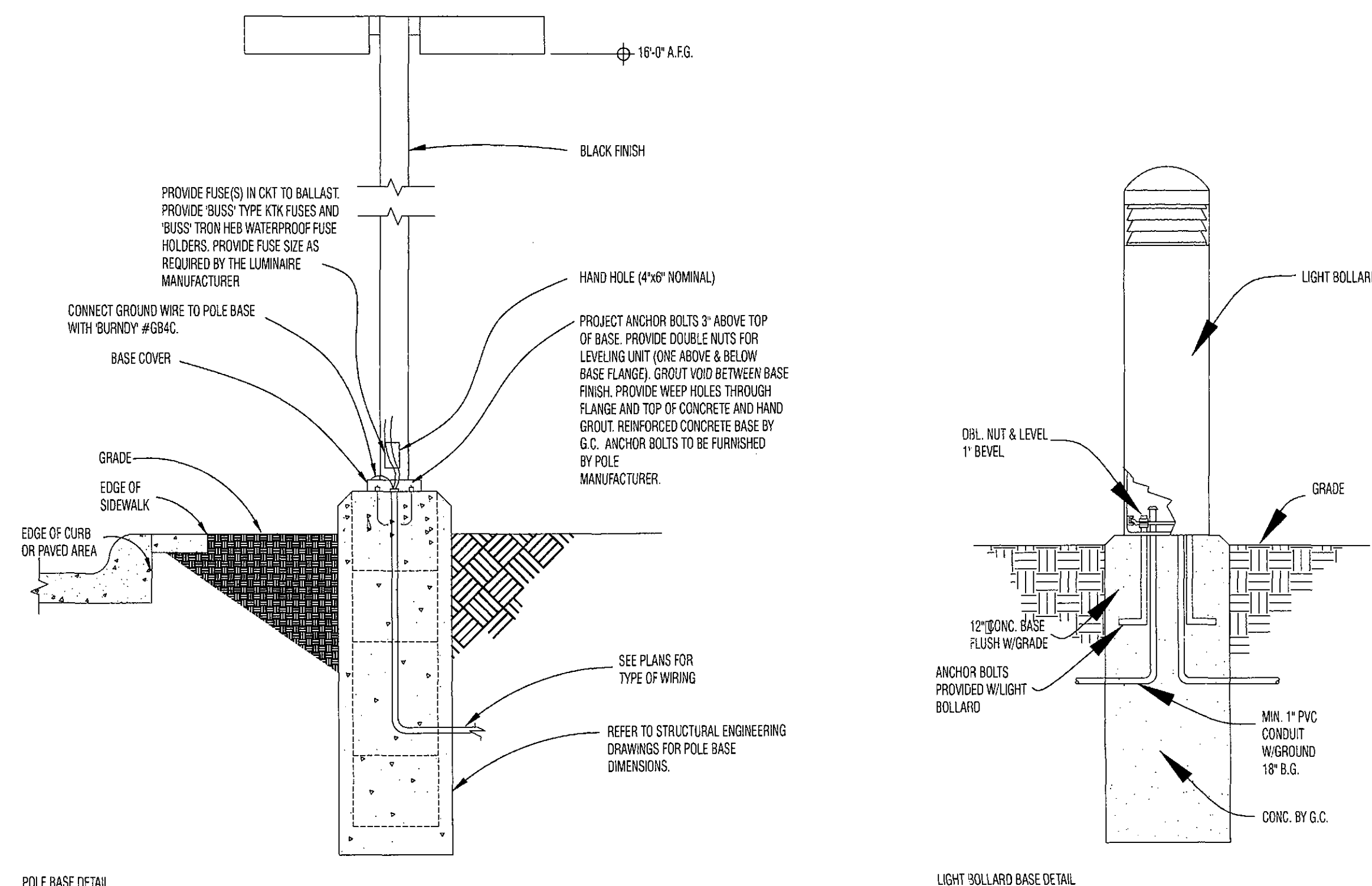
2A CMU site wall-Banner Block



3C Trash Enclosure Gate

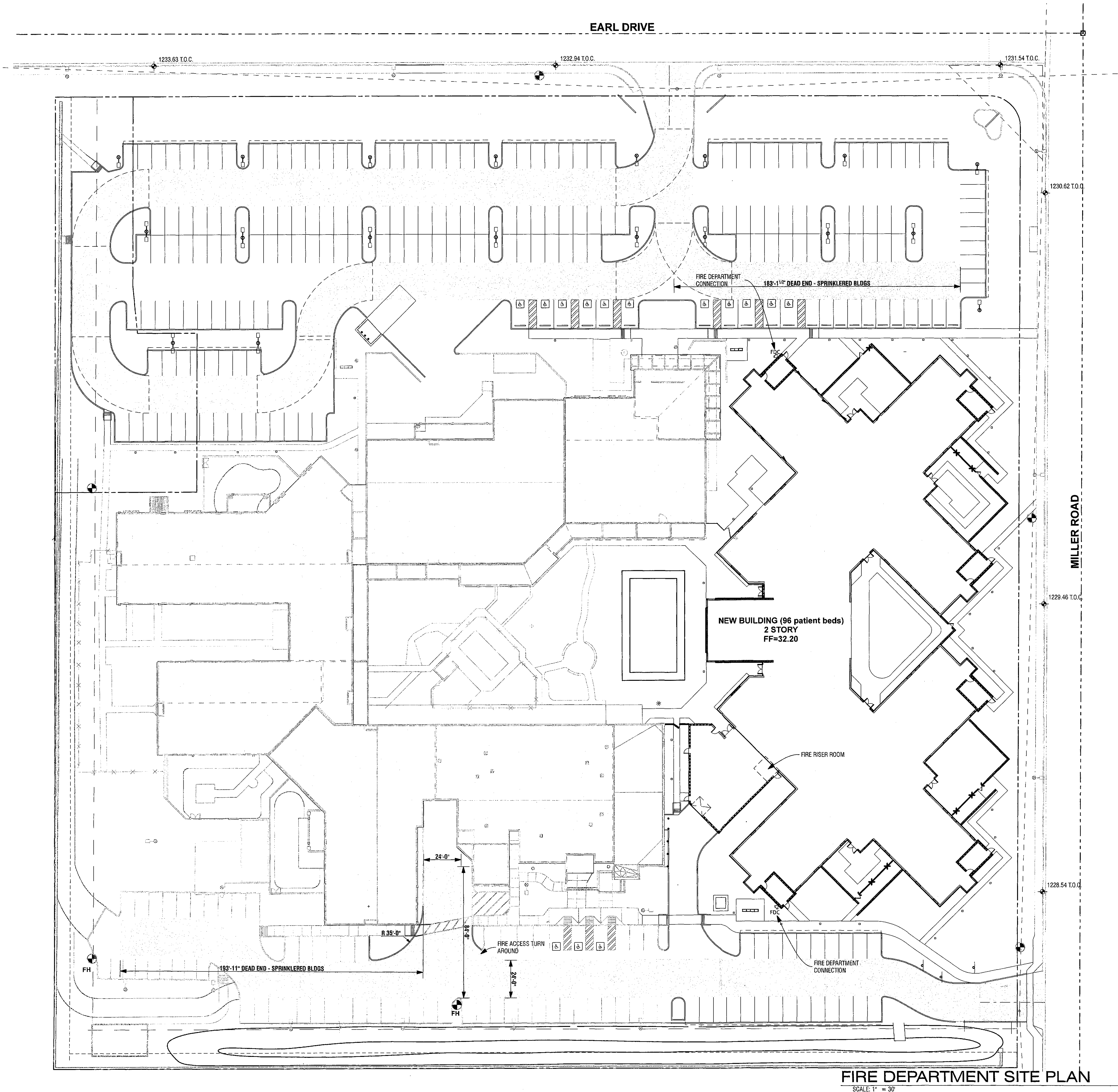


5D Privacy Gate
SCALE: $\frac{1/2''}{0} = \frac{1'-0''}{2'}$



3D Lot Lighting
NOT TO SCALE

Orcutt|Winslow Project 2015_043 Banner Behavioral Health Hospital Inpatient Building_100 Site Plans Sheet AS202 fire department site plan was plotted by Tyler Kimball on Wednesday, September 23, 2015 at 1:03 PM, file found at BIM Server: bimserv2.owp.com - BIM Server (18.0)/Health Care Studio/2015_043 BBH Inpatient Building



SITE PLAN LEGEND

- PRIMARY ACCESSIBLE ROUTE FROM R.O.W. SIDEWALK, RUNNING SLOPE MAX 1:20 AND CROSS SLOPE MAX 1:48
- PARKING LOT LIGHT POLE/FIXTURES
- LIGHT BOLLARD
- LIGHT POLE/FIXTURE
- BIKE RACK
- FIRE DEPARTMENT CONNECTION
- EXISTING FLAG POLE
- FIRE HYDRANT
- FIRE APPARATUS ROUTE

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09.24.2015

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DATE

PROJECT TEAM

mulhall

DRAWN BY

team

PROJECT PHASE

design review board application

SHEET CONTENTS

fire department site plan

SHEET NO.

AS202

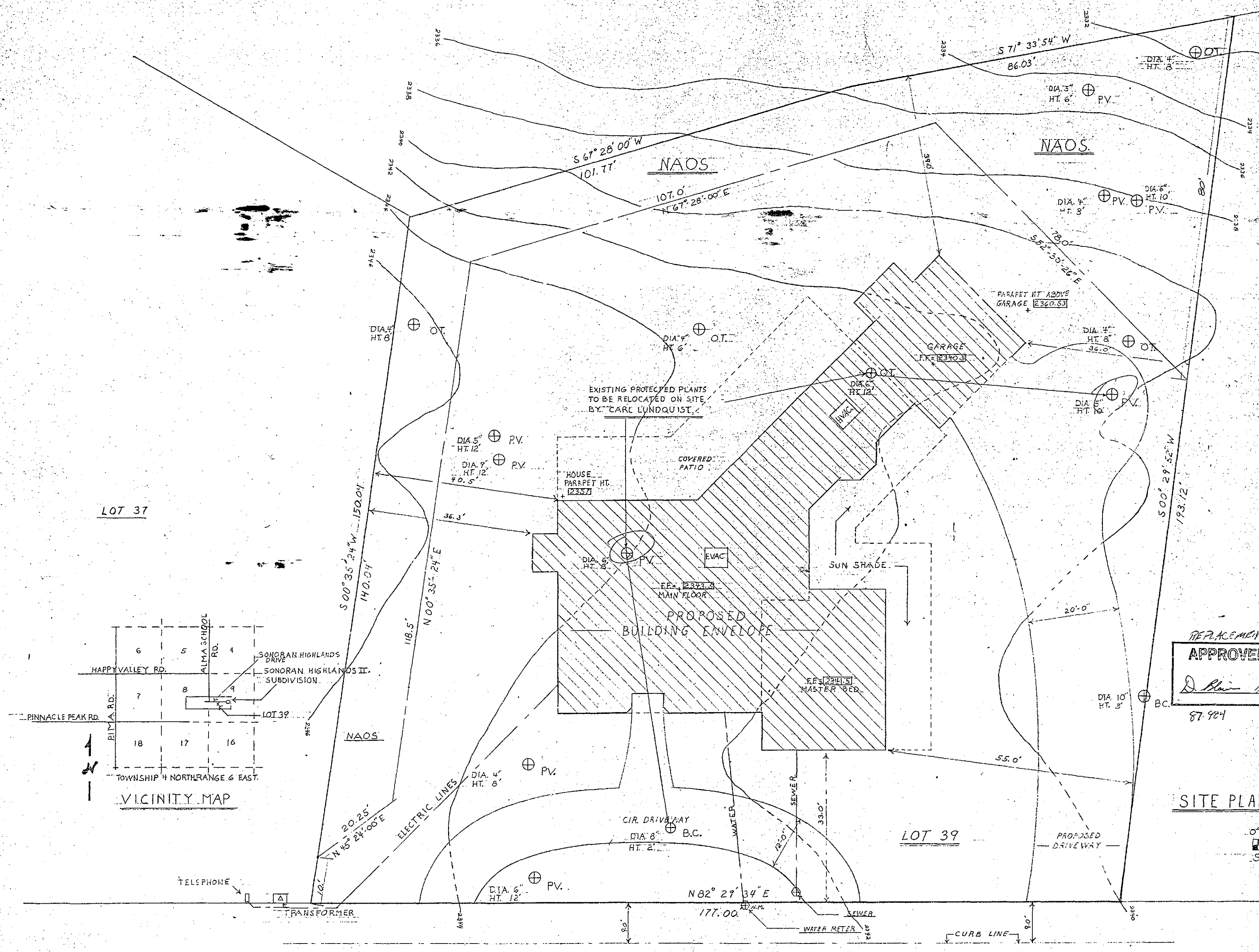
51-DR-2015#2
9/24/15

FIRE DEPARTMENT SITE PLAN

SCALE: 1" = 30'



24200 N Alma School #39
39, Sonoran Highlands Ph II



- NOTE:
- 1) FINISHED GRADE SHALL SLOPE 5% FOR A DISTANCE OF 10' TO APPROVED WATER DISPOSAL.
 - 2) MECH. SCREEN TO BE 12" ABOVE HIGHEST POINT OF ROOF MOUNTED HVAC UNITS.
 - 3) NET LOT AREA: 30,360.
 - 4) % NAOS REQUIRED: 20% OR 6,072 SQ. FT. PROVIDED 20' 1477% OR 6,087.13 SQ. FT.
 - 5) 2% SLOPE TO 2%.
 - 6) LOT SLOPE UNIT: 1.
 - 7) LOT LOCATED IN FLOOD PLAIN B (100-500 YRS).

LEGAL
LOT 39
SONORAN HIGHLANDS II
SCOTTSDALE, AZ.

ADDRESS
24200 N ALMA SCHOOL
SCOTTSDALE, AZ.

INDEX TO EXISTING
H'DIA. PROTECTED PLANTS
P.V. = PALO VERDE
O.T. = OCOTILLO
B.C. = BARREL CACTUS.

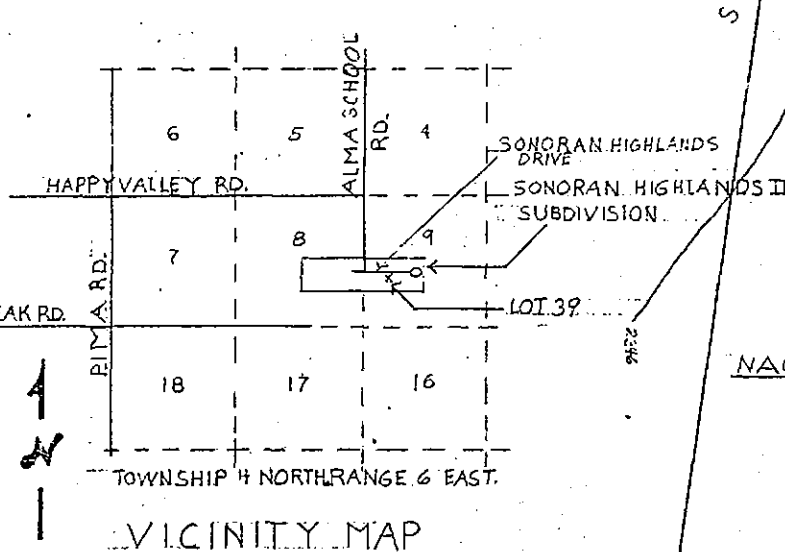
REPLACEMENT
APPROVED

D. Blain 1/10/87
DATE

AREA CALCS.	
LIVABLE AREA	1467 S.F.
MECHANICAL	43 S.F.
GARAGE	711 S.F.
STORAGE	48 S.F.
COVERED PATIO-1030	3 S.F.
SUN SHADE	943 S.F.
TOTAL UNDER REF	7442 S.F.

SITE PLAN

0' 5' 10' 20'
SCALE 1" = 10.0'



VICINITY MAP

SONORAN HIGHLANDS DRIVE

SUSAN COHILL RESIDENCE

SCALE: 1" = 10'-0"	APPROVED BY: SUSAN COHILL	DRAWN BY:
DATE: 8/27/87	DESIGN: BOBBY PALM	REVISED:
BUILT BY: BOBBY PALM CONSTRUCTION		DRAWING NUMBER:
DRAWN BY: STEPHEN JENTZEN		1 OF 3