LIBERTY TREE ACADEMY
SITE DEVELOPMENT PLAN

TOWN OF PEYTON, EL PASO COUNTY
FINAL
JUNE 2018

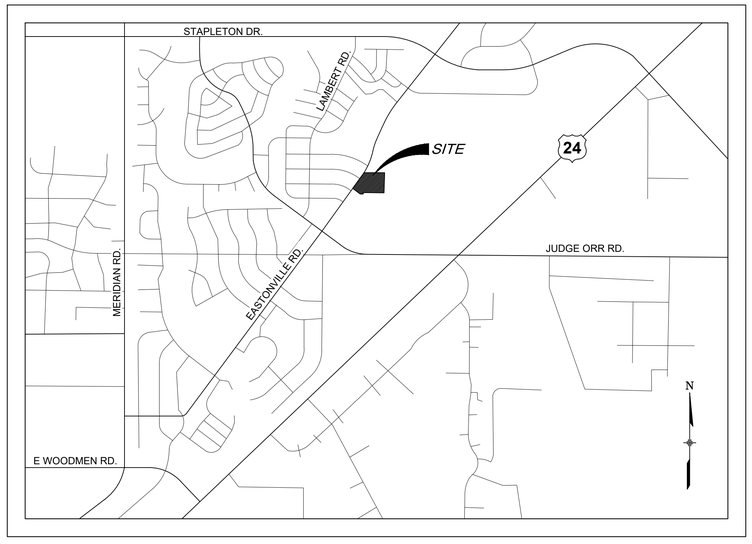
Know what's **below.** **Call** before you dig.

Do not include lighting plan and other documents in this submittal, upload lighting plan to the lighting plan spot, etc

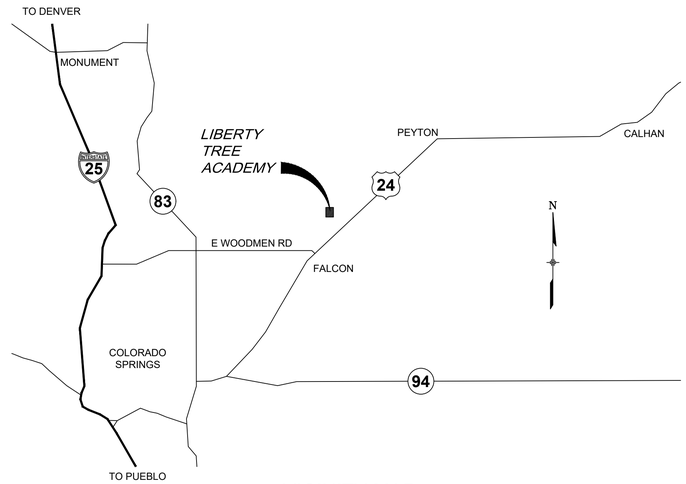
INDEX OF SHEETS

LAND USE SUMMARY

PARCEL AREA:	10.7 acres
PROJECT AREA:	3.4 acres
BUILDING AREA (PHASE 1):	41,585 sf
FAR:	0.28



LOCATION MAP
SCALE: N.T.S.



VICINITY MAP
SCALE: N.T.S.

CIVIL ENGINEER
MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
DENVER, CO. 80202
PH: 303-572-0200
FAX: 303-572-0202
CONTACT: DAVE KLINE, P.E., PTOE
DAVE_KLINE@MATRIXDESIGNGROUP.COM

LANDSCAPE ARCHITECT
MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
DENVER, CO. 80202
PH: 303-572-0200
FAX: 303-572-0202
CONTACT: TERESA ROBERSON
TERESA_ROBERSON@MATRIXDESIGNGROUP.COM

LEGAL DESCRIPTION:
LOT 1178, WOODMEN HILLS FILING NO. 10
COUNTY OF EL PASO
STATE OF COLORADO

BASIS OF BEARING:
BASIS OF BEARINGS: BEARINGS ARE BASED ON GRID BEARINGS OF THE COLORADO STATE PLANE CENTRAL ZONE, BASED ON THE EAST LINE OF LOT 1178 OF THE PLAT OF WOODMEN HILLS FILING NO. 10 AS RECORDED ON JULY 13, 2001 IN THE OFFICE OF THE EL PASO COUNTY CLERK AND RECORDER UNDER RECEPTION NUMBER 201098618, MONUMENTED ON THE NORTH END BY A FOUND 2-1/2" ALUMINUM CAP STAMPED "PLS 38160" AND ON THE SOUTH END BY A FOUND 1-1/2" ALUMINUM CAP STAMPED "PLS 32822", AND BEARS SOUTH 00°24'21" EAST A DISTANCE OF 1116.46 FEET.

BENCHMARK:
BENCHMARK IS DERIVED FROM AN ONLINE POSITIONING USER SERVICE PROVIDED BY THE NATIONAL GEODETIC SURVEY PERFORMED ON A SET #5 REBAR LOCATED ON THE EAST SIDE OF EASTONVILLE ROAD NEAR THE SOUTH PCR APPROXIMATELY 20 FEET SOUTH OF A SANITARY MANHOLE AND 12 FEET EAST OF A FIRE HYDRANT. THE ELEVATION DERIVED FROM THE STATIC SOLUTION IS 6960.52 U.S. SURVEY FEET (NAVD 88).

DESIGN ENGINEER'S STATEMENT:
THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

DAVID KLINE, P.E., PTOE _____ DATE _____

EL PASO COUNTY:
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E. _____ DATE _____

OWNER/DEVELOPER'S STATEMENT:
I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

LIBERTY TREE ACADEMY COMPANY _____ DATE _____

REFERENCE DRAWINGS
X-995-MDG22x34

No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Site Development Plan\TS01_SDP.dwg
CTB FILE: ----
PLOT DATE: July 2, 2018 5:31:45 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

PREPARED FOR: LIBERTY TREE ACADEMY
PREPARED BY: Matrix DESIGN GROUP, AN EMPLOYEE-OWNED COMPANY

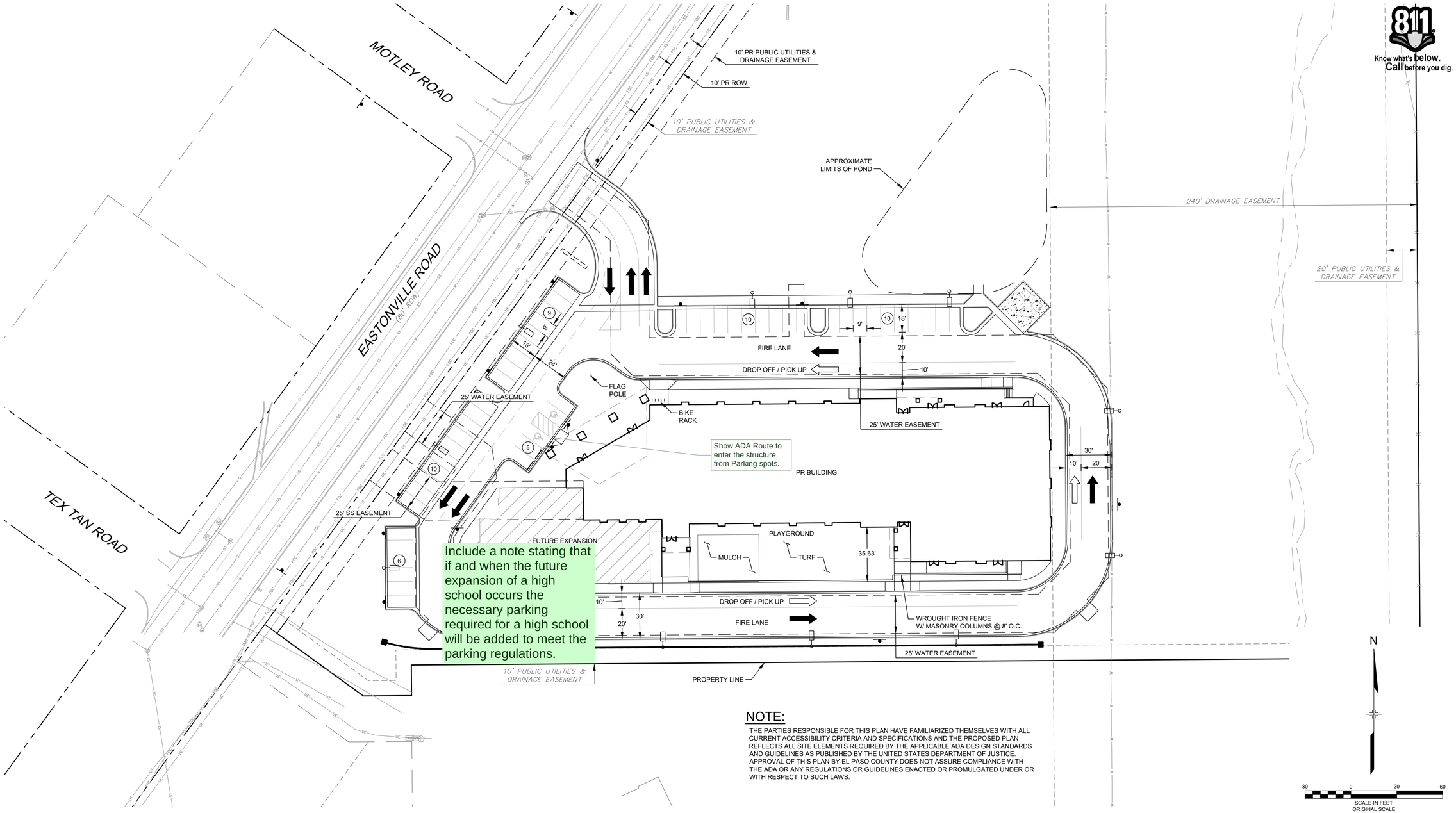
SEAL
COLORADO REGISTERED DAVID R. KLINE 24520 PROFESSIONAL ENGINEER 7/2/18

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY
TOWN OF PEYTON, EL PASO COUNTY
SITE DEVELOPMENT PLAN

TITLE SHEET

DESIGNED BY:	ACR	SCALE	DATE ISSUED:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.			
CHECKED BY:	DRK	VERT.	SHEET	1 OF 11	TS01



Know what's **below.** **Call** before you dig.

NOTE:

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

REFERENCE DRAWINGS

X-995-MDG22x34
X-995-PR-BASE
X-995-EX-BASE
X-995-EX-MAP
X-995-PR-UTIL
LTA OVERALL FIRST FLOOR PLAN

No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT

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CTB FILE: ----
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SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

COLORADO REGISTERED PROFESSIONAL ENGINEER
24520
7/2/18

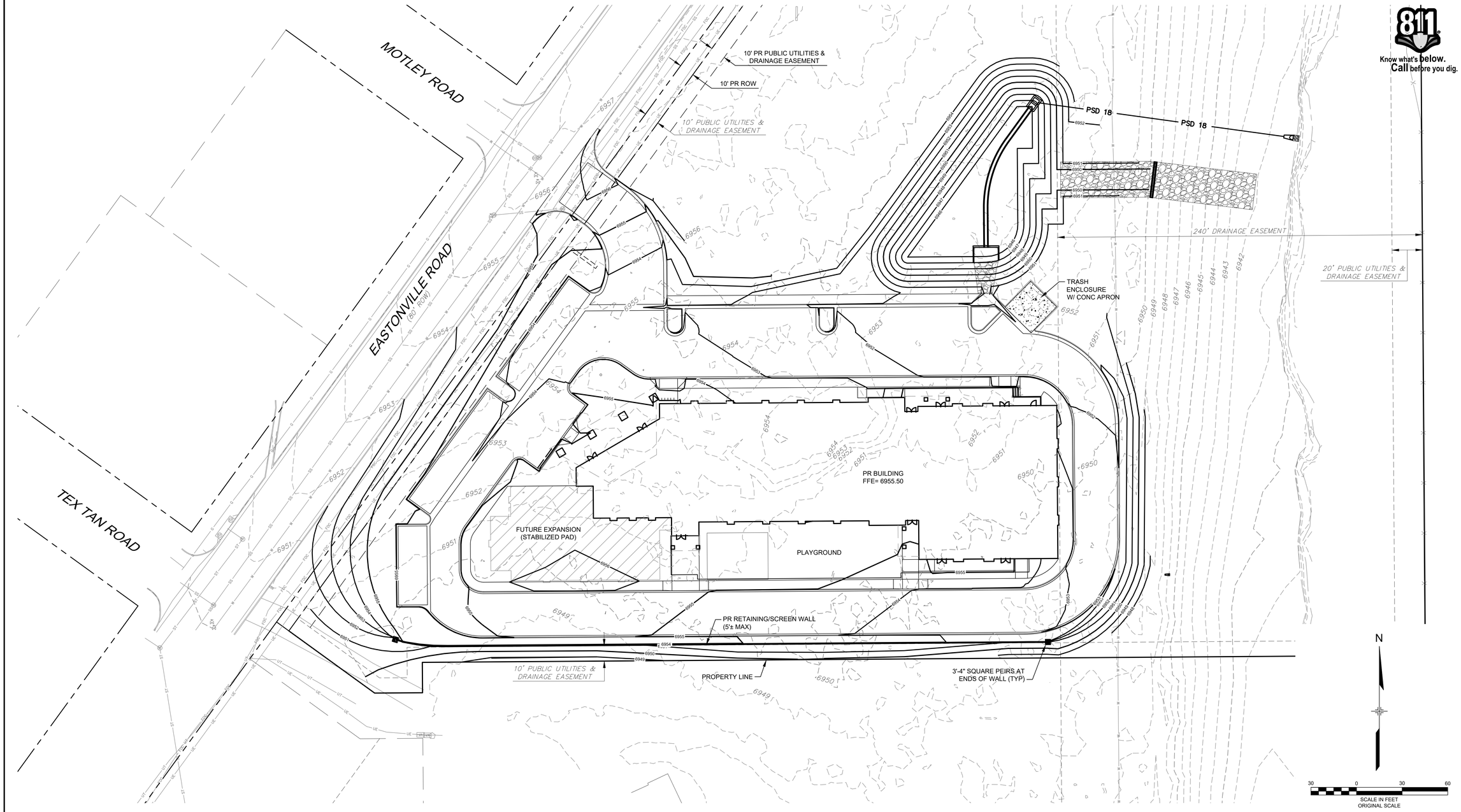
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
SITE DEVELOPMENT PLAN

SITE PLAN

DESIGNED BY:	ACR	SCALE	DATE ISSUED:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	SHEET	2 OF 11	SP01
CHECKED BY:	DRK	VERT.			



REFERENCE DRAWINGS

X-995-MDG22x34
X-995-PR-BASE
X-995-EX-BASE
X-995-EX-MAP
X-995-PR-UTIL
X-995-PR-GRAD
LTA OVERALL FIRST FLOOR PLAN 5-18

No.	DATE	DESCRIPTION	BY

REVISIONS

COMPUTER FILE MANAGEMENT

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CTB FILE: ----
PLOT DATE: 7/2/2018 5:32 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL

COLORADO REGISTERED PROFESSIONAL ENGINEER
24520
7/2/18

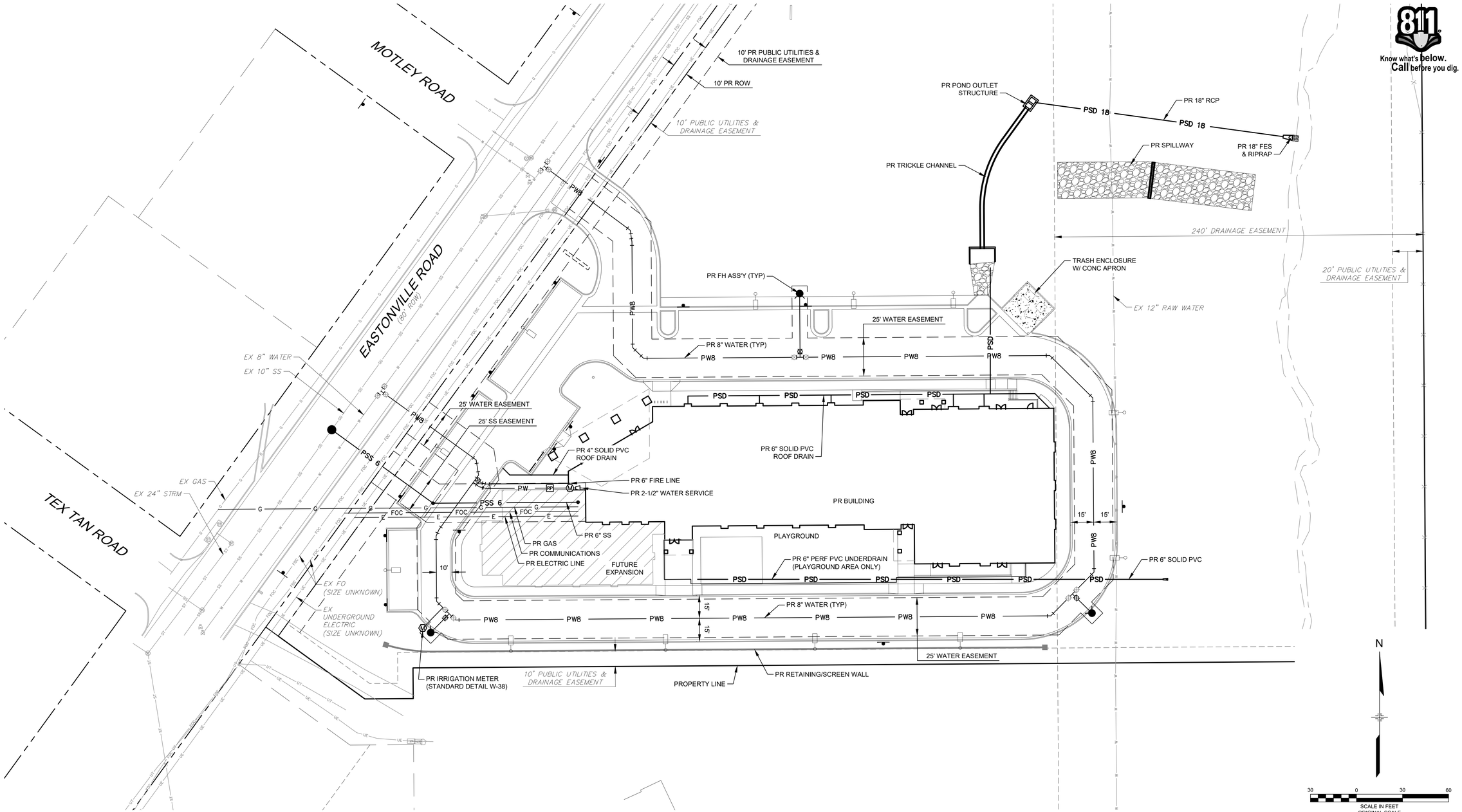
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
SITE DEVELOPMENT PLAN

GRADING PLAN

DESIGNED BY:	ACR	SCALE	DATE ISSUED:	JUNE 2018
DRAWN BY:	ACR	HORIZ.		DRAWING No.
CHECKED BY:	DRK	VERT.	SHEET 3 OF 11	GR01



Know what's below. Call before you dig.

REFERENCE DRAWINGS
X-995-MDG22x34
X-995-PR-BASE
X-995-EX-BASE
X-995-EX-MAP
X-995-PR-UTIL
LTA OVERALL FIRST FLOOR PLAN_18

No.	DATE	DESCRIPTION	BY
		REVISIONS	

COMPUTER FILE MANAGEMENT

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CTB FILE: ----
PLOT DATE: 7/2/2018 5:32 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

SEAL
COLORADO REGISTERED PROFESSIONAL ENGINEER
24520
7/2/18

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
SITE DEVELOPMENT PLAN

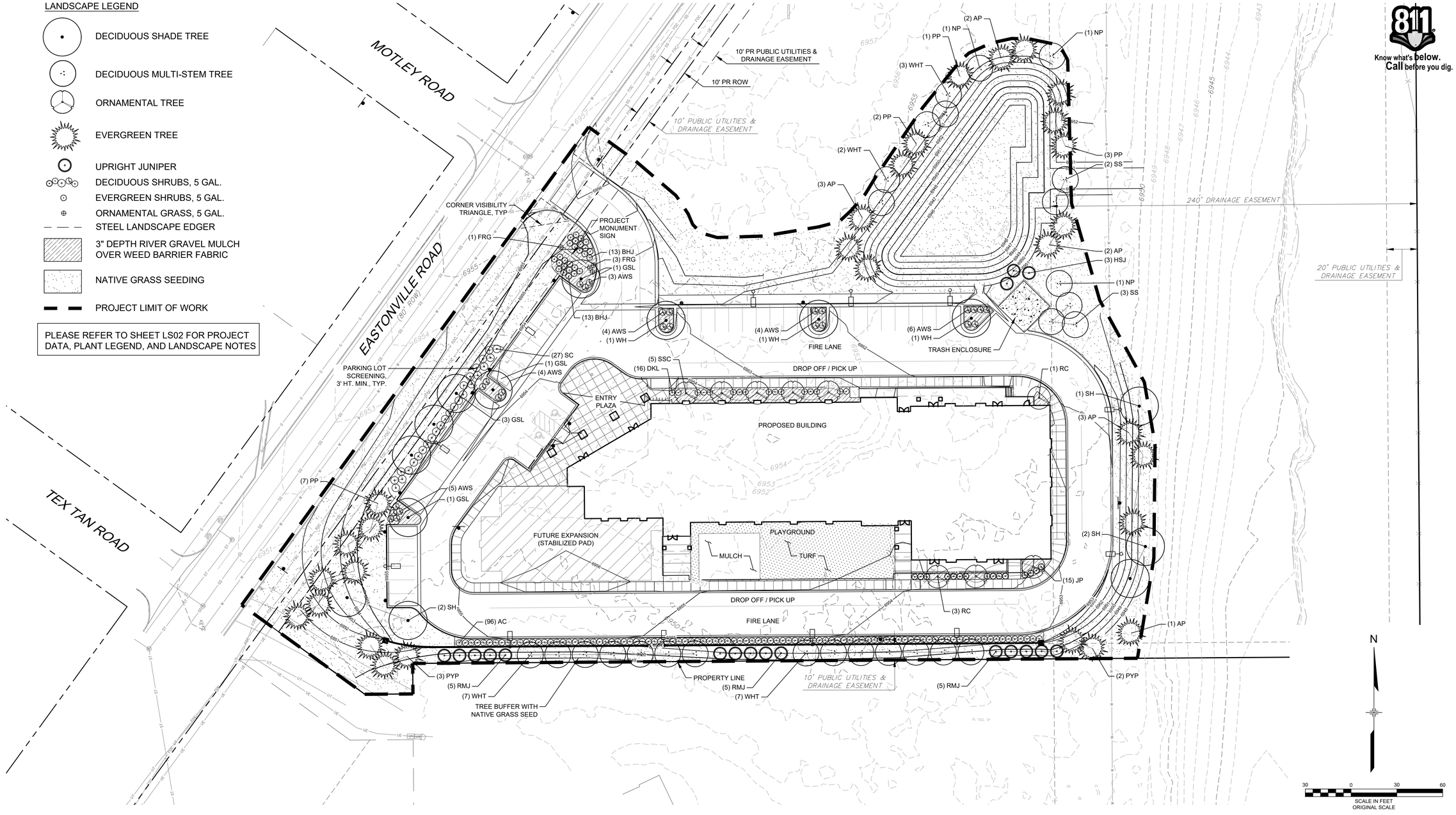
OVERALL UTILITY PLAN

DESIGNED BY:	ACR	SCALE	DATE ISSUED:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	SHEET	4 OF 11	UT01
CHECKED BY:	DRK	VERT.			

LANDSCAPE LEGEND

- DECIDUOUS SHADE TREE
- DECIDUOUS MULTI-STEM TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- UPRIGHT JUNIPER
- DECIDUOUS SHRUBS, 5 GAL.
- EVERGREEN SHRUBS, 5 GAL.
- ORNAMENTAL GRASS, 5 GAL.
- STEEL LANDSCAPE EDGER
- 3" DEPTH RIVER GRAVEL MULCH OVER WEED BARRIER FABRIC
- NATIVE GRASS SEEDING
- PROJECT LIMIT OF WORK

PLEASE REFER TO SHEET LS02 FOR PROJECT DATA, PLANT LEGEND, AND LANDSCAPE NOTES



Know what's **below.** **Call** before you dig.

REFERENCE DRAWINGS
X-995-MDG22x34
X-995-PR-BASE
X-995-EX-BASE
X-995-EX-MAP
X-995-PR-GRAD
X-995-PR-LANDSCAPE
Planting Details
LTA OVERALL FIRST FLOOR PLAN 6-7-18

No.	DATE	DESCRIPTION	BY
		REVISIONS	

COMPUTER FILE MANAGEMENT

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PLOT DATE: 7/2/2018 1:23 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SHEET KEY

PREPARED FOR:
LIBERTY TREE ACADEMY

PREPARED BY:
Matrix DESIGN GROUP
AN EMPLOYEE-OWNED COMPANY

Teresa J. Robberson LA-203 01/01/2008 Original Date of Licensure STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
SITE DEVELOPMENT PLAN

LANDSCAPE PLAN

DESIGNED BY:	ACR	SCALE	DATE ISSUED:	JUNE 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	SHEET	5 OF 11	LS01
CHECKED BY:	DRK	VERT.			

2 SK2.0 **WEST. EL.**
1/16" = 1'-0"

3 SK2.0 **EAST. EL.**
1/16" = 1'-0"

1 SK2.0 **NORTH EL.**
1/16" = 1'-0"

4 SK2.0 **SOUTH EL.**
1/16" = 1'-0"

LIBERTY TREE ACADEMY

RKAA ARCHITECTS, INC

DESIGN APPROVAL

DATE APPROVED:

STATE OF COLORADO
ROBERT WARREN KUBICEK
303781
LICENSED ARCHITECT

carhuff+cueva architects, llc

3149 e prince rd #151
tucson, arizona 85716
phone 520.577.4560
www.ccq-az.com

NEW SCHOOL CAMPUS FOR:

LIBERTY TREE ACADEMY

**8579 EASTONVILLE RD,
PEYTON, CO 80831**

CONSTRUCTION DOCUMENTS

△ REVISION	DATE	DESCRIPTION	BY

PROJECT NO. **P18-8579**

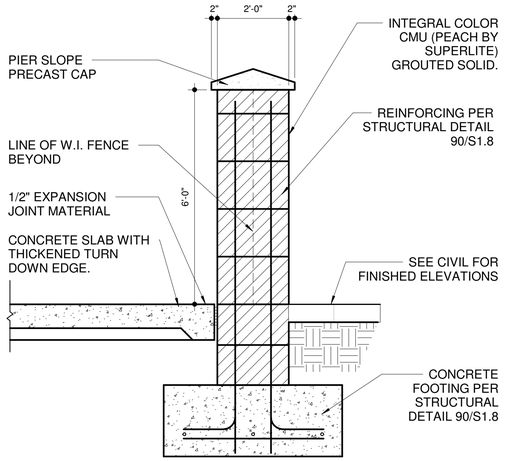
DATE **MAY 8, 2018**

SCALE **1/16" = 1'-0"** | DRAWN BY **PD**

DRAWING TITLE **PRESENTATION ELEVATIONS**

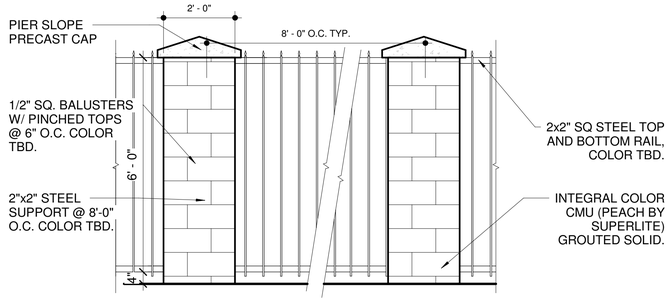
DRAWING NUMBER **SK2.0**

5/28/2018 12:57 PM



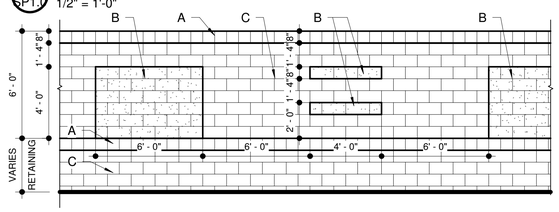
4 SP1.0 TYP. MASONRY COLUMN DETAIL

1/2" = 1'-0"



5 SP1.0 WROUGHT IRON FENCE DETAIL

1/2" = 1'-0"



NOTE:
ALL CMU IS 8"X16"X8",
COLORS AND FINISH BY
SUPERLITE.

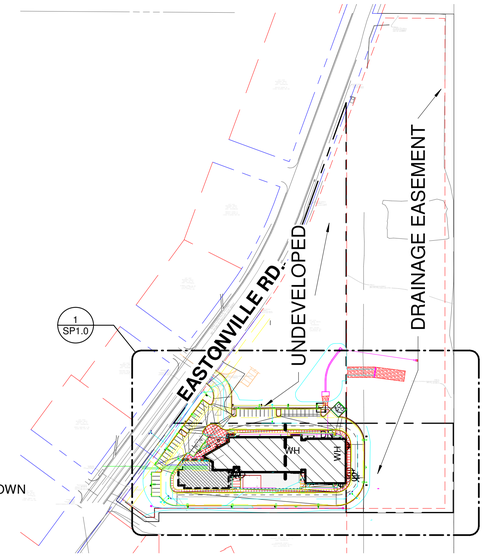
LEGEND

A:CMU SINGLE SCORE, COLOR:BONE
B.CMU SPLIT FACE, COLOR: COCOA BROWN
C.CMU STANDARD, COLOR:PEACH

REFRENCE DETAIL 89 AND 81/S1.8
FOR STRUCTURAL REQURIEMENTS.

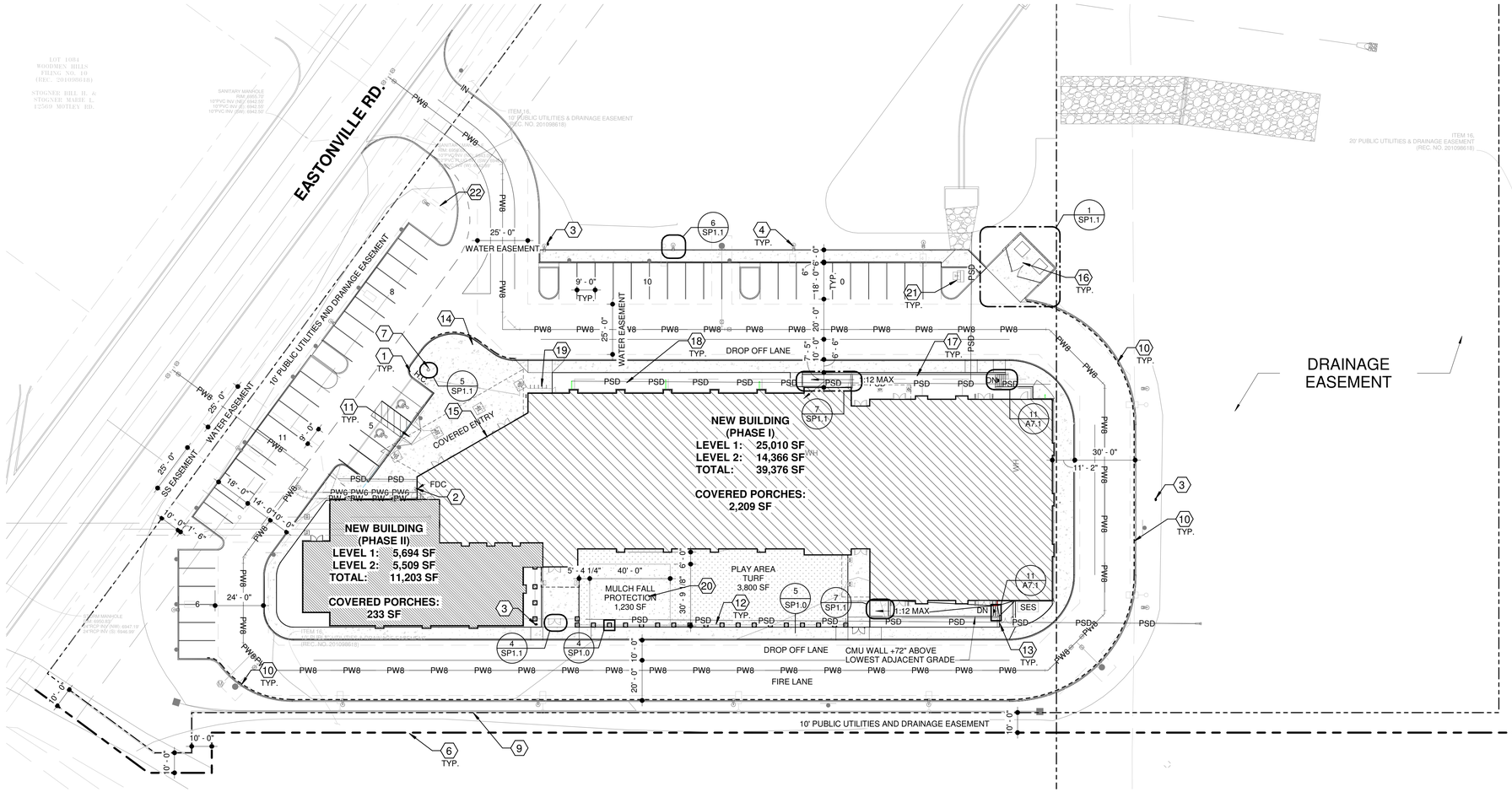
3 SP1.0 PERIMETER SITE WALL TYPICAL ELEVATION

1/4" = 1'-0"



2 SP1.0 REFERENCE SITE PLAN

1" = 160'-0"



1 SP1.0 PROPOSED SITE PLAN

1" = 30'-0"

PROJECT DATA

PARCEL #: 4232302001
ZONING: RR-5

MAXIMUM LOT COVERAGE 25%
MAXIMUM HEIGHT 30'
SETBACKS 25' FRONT, REAR, SIDE.

BUILDING INFORMATION

GROSS FLOOR AREA:	39,376 S.F.
NUMBER OF STORIES:	2
MAXIMUM HEIGHT:	30'-0"

PARKING DATA

PARKING REQUIRED PER TABLE 6-2
ELEMENTARY OR JR HIGH:
2 SPACES PER CLASSROOM

REQUIRED PARKING SIZE 9X18 2' OVERHANG

NEW PARKING REQUIRED PER TABLE 6-2:
(2 SPACES/CLASS ROOM) 22 C.R. X 2 = **44 STALLS**
NEW PARKING PROVIDED: **50 STALLS**
REQUIRED ADA PARKING SPACES: **2 STALLS**
ADA PARKING SPACES PROVIDED: **2 STALLS**

ON SITE QUEUE LENGTH: 1,240 L.F.

BIKE PARKING

REQUIRED BIKE PARKING 5% OF VEHICLE
PARKING SPACES (49 X .05): **3 SPACES**
PROVIDED BIKE PARKING: **5 SPACES**

SITE PLAN KEYNOTES:

1. ACCESSIBLE PARKING SPACE PER CIVIL DRAWINGS.
2. FIRE RISER ENTRANCE. PROVIDE FIRE RISER ROOM SIGNAGE.
3. FIRE HYDRANT PER CIVIL DRAWINGS.
4. SITE LIGHTING FIXTURES, SEE ELECTRICAL DRAWINGS.
5. ***WATER METER PER CIVIL PLANS.***
6. PROPERTY LINE.
7. 25' HIGH FLAG POLE.
8. ***BACKFLOW PREVENTER PER CIVIL PLANS.***
9. INTEGRAL COLOR CMU SCREEN WALL OVER RETAINING WALL. SEE TYPICAL SITE WALL DETAIL.
10. CONCRETE CURB PER DETAILS. PAINTED RED CURB WITH "NO PARKING FIRE LANE" IN 4" WHITE LETTERS ON FACE OF THE CURB SPACED 80' ON CENTER FOR FIRE LANE DESIGNATION AS INDICATED WITH DASHED LINE.
11. CONCRETE RAMP PER CIVIL DRAWINGS
12. CMU PILLAR AND WROUGHT IRON FENCE PER DETAIL.
13. W.I. GATE WITH KEY F.O.B. AND PANIC HARDWARE PER DETAIL.
14. SCORED CONCRETE WITH CONTROL JOINTS 6'-0" O.C., PATTERN PER PLAN.
15. PROVIDE FLUSH-MOUNTED KNOX BOX, MODEL NO. 3200 SERIES @ +6'-0" A.F.F. ORDER AND INSTALL PER LOCAL FIRE DEPARTMENT REQUIREMENTS
16. TRASH ENCLOSURE GATE PER DETAIL, PROVIDE 6.33" STEEL BOLLARDS 60" ABOVE GRADE, SPACED PER DETAIL. FULL GROUT AND CROWN TOP PRIMED AND PAINTED LIGHT TAN.
17. DECOMPOSED GRANITE PER LANDSCAPE PLANS.
18. UNDERGROUND STORM DRAIN PER CIVIL DRAWINGS.
19. CYCLOOPS 2170-5 BICYCLE PARKING
20. PLAY STRUCTURE BY OWNER GC TO COORDINATE INSTALLATION.
21. ELECTRICAL TRANSFORMER.
22. MONUMENT SIGN LOCATION, (UNDER SEPARATE PERMIT AND SUBMITTAL)

LIBERTY TREE ACADEMY

RKAA ARCHITECTS, INC

DESIGN APPROVAL

DATE APPROVED:

STATE OF COLORADO
ROBERT WARREN KUBICEK
303781
LICENSED ARCHITECT

carhuff+cueva architects, llc
3149 e prince rd #151
tucson, arizona 85716
phone 520.577.4560
www.cca-az.com

NEW SCHOOL CAMPUS FOR:

LIBERTY TREE ACADEMY

8579 EASTONVILLE RD,
PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY

PROJECT NO. **P18-8579**

DATE **MAY 8, 2018**

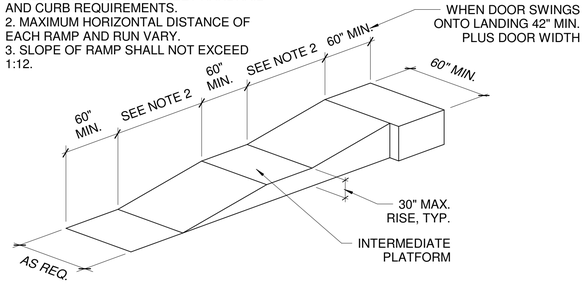
SCALE **As indicated** | DRAWN BY **PD**

DRAWING TITLE **ARCHITECTURAL SITE PLAN**

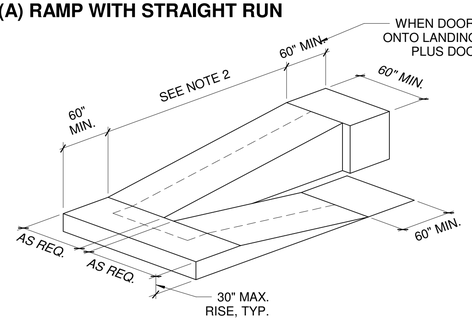
DRAWING NUMBER **SP1.0**

6/29/2018 2:53:12 PM

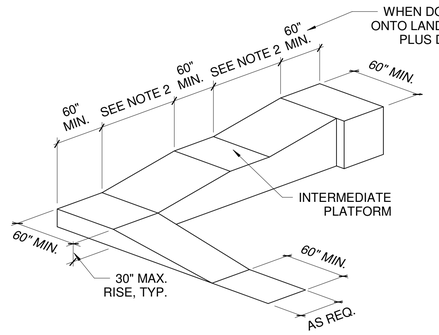
RAMP NOTES:
1. ALL HANDRAILS MUST MEET HANDRAIL AND CURB REQUIREMENTS.
2. MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP AND RUN VARY.
3. SLOPE OF RAMP SHALL NOT EXCEED 1:12.



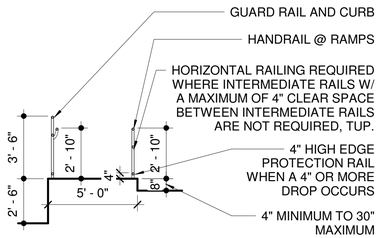
(A) RAMP WITH STRAIGHT RUN



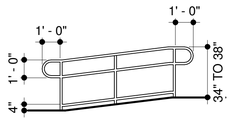
(B) RAMP WITH INTERMEDIATE SWITCHBACK PLATFORM



(C) RAMP WITH TURNING PLATFORM



(E) RAMP SECTION

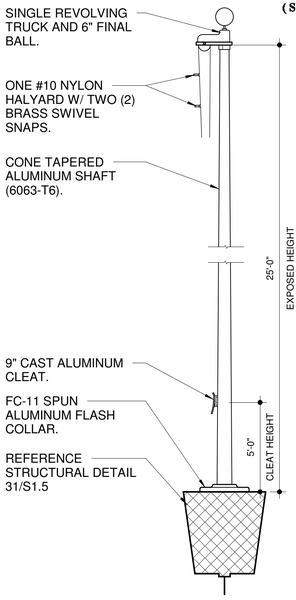


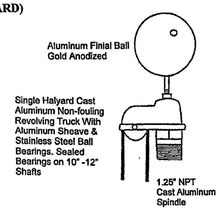
(D) RAMP ELEVATION

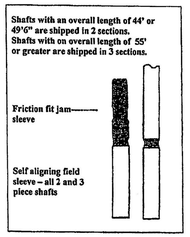
7 SP1.1 TYP. PEDESTRIAN RAMP
1/4" = 1'-0"

Concord Industries, Inc.
4150-A Kellway Circle, Addison, TX 75001

CONTINENTAL
(SINGLE HALYARD)





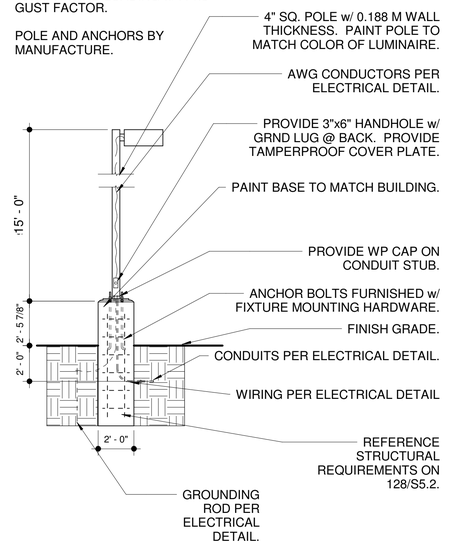


Ground Set Tapered Alum. Flagpole 6063-T6
Exp Ht 25' Overall Ht 28' Ship in 1 Sections
Butt Dia. 5.5" Top Dia. 3.5" Wall Thickness .188
Finish: 150 Grit High Polish

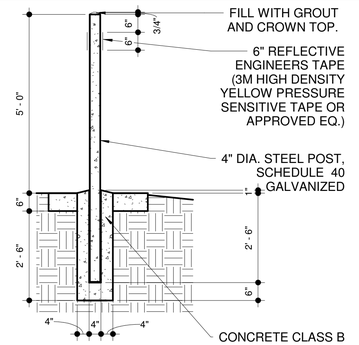
5 SP1.1 FLAG POLE DETAIL
1/4" = 1'-0"

NOTE:
THE POLE MANUFACTURER SHALL PROVIDE A POLE BASE DESIGN FOR 100MPH WIND LOADING w/ A 1.3 GUST FACTOR.

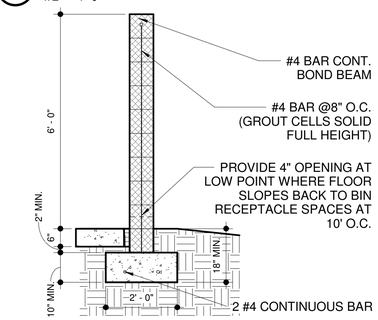
POLE AND ANCHORS BY MANUFACTURE.



6 SP1.1 LIGHT POLE DETAIL
1/4" = 1'-0"



3 SP1.1 BOLLARD DETAIL
1/2" = 1'-0"

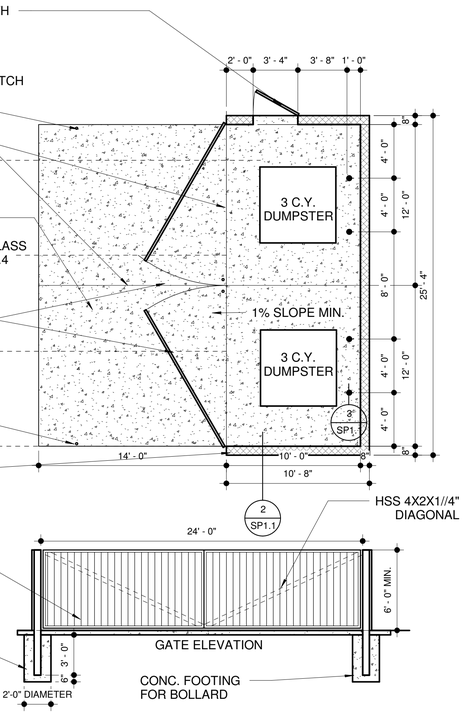


2 SP1.1 TRASH ENCLOSURE WALL DETAIL
1/2" = 1'-0"

DUMPSTER ENCLOSURE GENERAL NOTES:

1. SOIL BELOW THE WALL FOOTER AND CONCRETE PAD SHALL BE COMPACTED TO A DEPTH OF 6 INCHES AND TO A MINIMUM DRY DENSITY OF 90% IN ACCORDANCE WITH ASTM D-2922 AND D-3017, AFTER ADJUSTMENT FOR ROCK CORRECTION.

2. STEEL REINFORCEMENT SHALL BE GRADE 40.

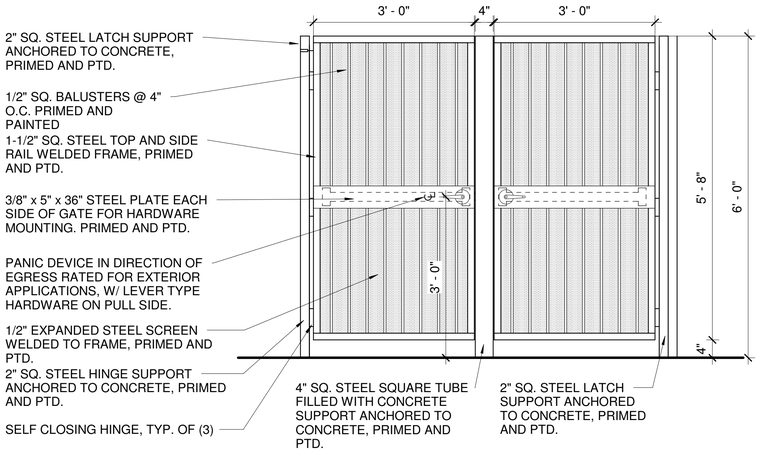


1 SP1.1 DUMPSTER ENCLOSURE
3/16" = 1'-0"

GATE HARDWARE SET
EACH TO HAVE:

1 EA GATE CLOSER	PFGCS 1-(714)-994-0276		
1 EA IC CYLINDER	AS REQUIRED	626	FAL
1 EA PANIC HARDWARE	99-L X 374L X POOL	626	VON
1 EA FLOOR MOUNTED DOOR STOP			FS18L IVES

Operational Description
Free Egress at all times. Pressing Push Bar retracts latchbolts. Latchbolt retracted by lever unless locked by key. Key locks and unlocks lever. Dogging by hex key, locks down the pushbar or crossbar so the latchbolt remains retracted.



4 SP1.1 DOUBLE GATE DETAIL
3/4" = 1'-0"

LIBERTY TREE ACADEMY

RKAA ARCHITECTS, INC

DESIGN APPROVAL
DATE APPROVED:

STATE OF COLORADO
ROBERT WARREN KUBICEK
303781
LICENSED ARCHITECT

carhuff+cueva architects, llc
3149 e prince rd #151
tucson, arizona 85716
phone 520.577.4560
www.cca-az.com

NEW SCHOOL CAMPUS FOR:

LIBERTY TREE ACADEMY

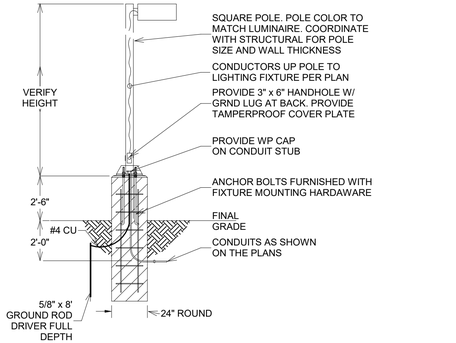
8579 EASTONVILLE RD, PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY
1	03-17-16	COORDINATION / REVIEW COMMENTS	

PROJECT NO. P18-8579
DATE MAY 8, 2018
SCALE As indicated
DRAWN BY PD
DRAWING TITLE SITE DETAILS
DRAWING NUMBER SP1.1

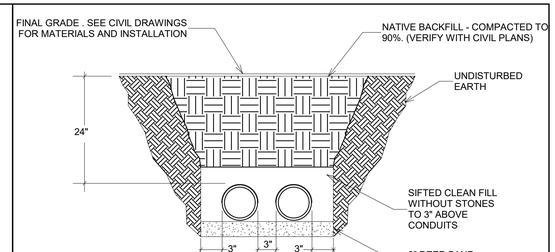
8/28/2018 2:56:13 PM



NOTE: THE POLE MANUFACTURER SHALL PROVIDE A POLE BASE DESIGN FOR 100MPH WIND LOADING WITH A 1.3 GUST FACTOR. THE POLE BASE DESIGN SHALL BE FROM A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA. THE STRUCTURAL ENGINEER SHALL VERIFY THE WIND LOADING AND GUST FACTOR CRITERIA ABOVE ARE ADEQUATE FOR THE AREA OF INSTALLATION

1 POLE MOUNTED DETAIL

NTS



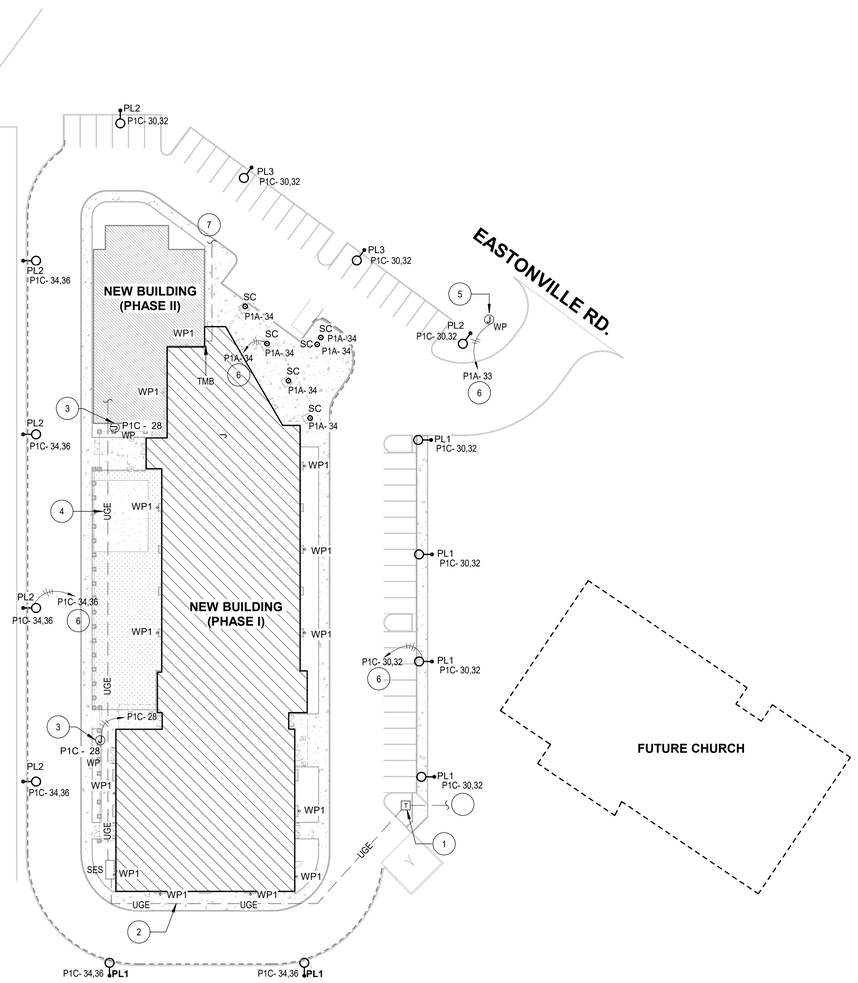
NOTE:
CONTRACTOR SHALL MODIFY THE NUMBER OF CONDUITS PER THE PROJECTED UTILITY REQUIREMENTS

COORDINATE ALL REQUIREMENTS WITH UTILITY COMPANY PRIOR TO INSTALLATION

PROVIDE A #18 OR LARGER COPPER TRACER WIRE SECURELY ATTACHED TO THE NON-METALLIC CABLE, PIPE OR CONDUIT AT 8'-0" ON CENTER. IT SHALL HAVE A 12" OF TRACER WIRE ACCESSIBLE ABOVE GRADE AT ANY ABOVE GRADE TERMINATION PER ARIZONA STATE STATUTE

2 GENERAL TRENCH SECTION

NTS



6 ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

GENERAL NOTES

A THIS ELECTRICAL UTILITIES SITE PLAN IS FOR REFERENCE ONLY. NO CONSTRUCTION IS TO BEGIN UNTIL FINAL UTILITY COMPANY PLANS ARE RECEIVED. UTILITY COMPANY DESIGN IS NOT AVAILABLE AT THIS TIME. ADDITIONAL WORK WILL BE REQUIRED.

B ALL WORK SHALL BE PER UTILITY COMPANY CONSTRUCTION STANDARDS AND SPECIFICATIONS. PROVIDE CONDUIT SPACERS THROUGHOUT AND CONCRETE ENCASEMENT WHERE FEEDERS PASS UNDER DRIVEWAYS AND OR PARKING LOTS.

C ALL TRANSFORMER BOXES, METER PANELS, ELECTRICAL EQUIPMENT AND MISCELLANEOUS UTILITY EQUIPMENT SHALL BE PAINTED TO MATCH ADJACENT BUILDING COLORS WHERE SCREENING IS NOT APPLICABLE. COORDINATE WITH UTILITY PRIOR TO PAINTING.

D SEE SHEET E0.1 GENERAL NOTES FOR ADDITIONAL UTILITY COORDINATION NOTES.

E ALL EXTERNAL LIGHTING SHALL BE LOCATED AND DESIGNED TO PREVENT RAYS FROM BEING DIRECTED OFF OF THE PROPERTY UPON WHICH THE LIGHTING IS LOCATED.

F THE CONTRACTOR SHALL PROGRAM THE LIGHTING CONTROLLER AS PER THE LIGHTING DIAGRAM PRIOR TO CALLING THE CITY FOR THE INSPECTION.

G THE CONTRACTOR IS TO SCHEDULE A NIGHT TIME INSPECTION OF THE ENERGIZED LIGHTING, TO ATTEND THIS INSPECTION AND TO CORRECT ALL ITEMS IDENTIFIED DURING INSPECTION PRIOR TO ISSUING THE FINAL CERTIFICATE OF OCCUPANCY.

KEYED NOTES

1 PROPOSED LOCATION OF UTILITY TRANSFORMER. ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY COMPANY REQUIREMENTS. COORDINATE WITH UTILITY COMPANY FOR EXACT REQUIREMENTS AND LOCATION. MAINTAIN MINIMUM CLEARANCE IN FRONT, SIDES AND BACK OF UTILITY TRANSFORMER PER UTILITY REQUIREMENTS.

2 PROVIDE SECONDARY CONDUIT WITH MULETAPE FROM NEW UTILITY COMPANY TRANSFORMER TO S.E.S. UTILITY PULL SECTION. COORDINATE WITH UTILITY COMPANY FOR EXACT QUANTITY, ROUTING AND REQUIREMENTS. TRENCHING AND BACKFILL BY ELECTRICAL CONTRACTOR AS REQUIRED BY THE UTILITY. VERIFY EXACT ROUTING, DISTANCE AND P.O.C. WITH UTILITY PRIOR TO DIGGING.

3 PROVIDE WEATHER PROOF J-BOX AT GATE FOR CARD READER. VERIFY MOUNTING AND LOCATION WITH OWNER PRIOR TO INSTALLATION.

4 PROVIDE (2) 4" UG CONDUITS STUB-UPS WITH PULL STRING FOR FUTURE PHASE 2 ADDITION, FROM SES TO FUTURE BUILDING ELECTRICAL ROOM LOCATION. VERIFY EXACT ROUTING, DISTANCE, AND STUB-UP WITH OWNER PRIOR TO DIGGING.

5 PROVIDE WP J-BOX FOR MONUMENT SIGN LIGHTING. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

6 ROUTE LIGHTING HOME RUN THROUGH LIGHTING CONTROL PANEL OR TIME CLOCK AS REQUIRED FOR CONTROL.

7 PROVIDE (2) 4" CONDUIT WITH PULLWIRE TO TELCO/CATV POINT OF CONNECTION. COORDINATE WITH UTILITY COMPANY FOR EXACT ROUTING AND REQUIREMENTS. PROVIDE PULL BOXES AS REQUIRED.

CALL 4-7 WORKING DAYS BEFORE YOU DIG
1-800-922-1987
COLORADO UNDERGROUND SERVICE ALERT

Power Company: MOUNTAIN VIEW ELECTRIC
Telephone #: 1-719-495-2283

Telephone Company: Century Link
Telephone #: 1-719-453-1443

Submit drawings to Utility Company representative as required in the General Notes included in the Electrical Drawings.

ASEIENGINEERING
2410 W. Royal Palm Rd., Suite A, Phoenix, AZ 8502
www.aseiengineering.com o: 602.287.0300 f: 602.287.0600

JOB NO: 180790 | DFT: ME/SR | DSN:ME/SR | CHK:CLS

LIBERTY TREE ACADEMY

COLORADO LICENSED
40062
08-28-18
PROFESSIONAL ENGINEER
EXPIRES 10/31/2019

carhuff+cueva architects, llc
3149 e prince rd #151
tucson, arizona 85716
phone 520.577.4560
www.cca-az.com

NEW SCHOOL CAMPUS FOR:

LIBERTY TREE ACADEMY

8579 EASTONVILLE RD, PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

△ REVISION	DATE	DESCRIPTION	BY

PROJECT NO. 18001

DATE JUNE 27, 2018

SCALE As indicated | DRAWN BY Author

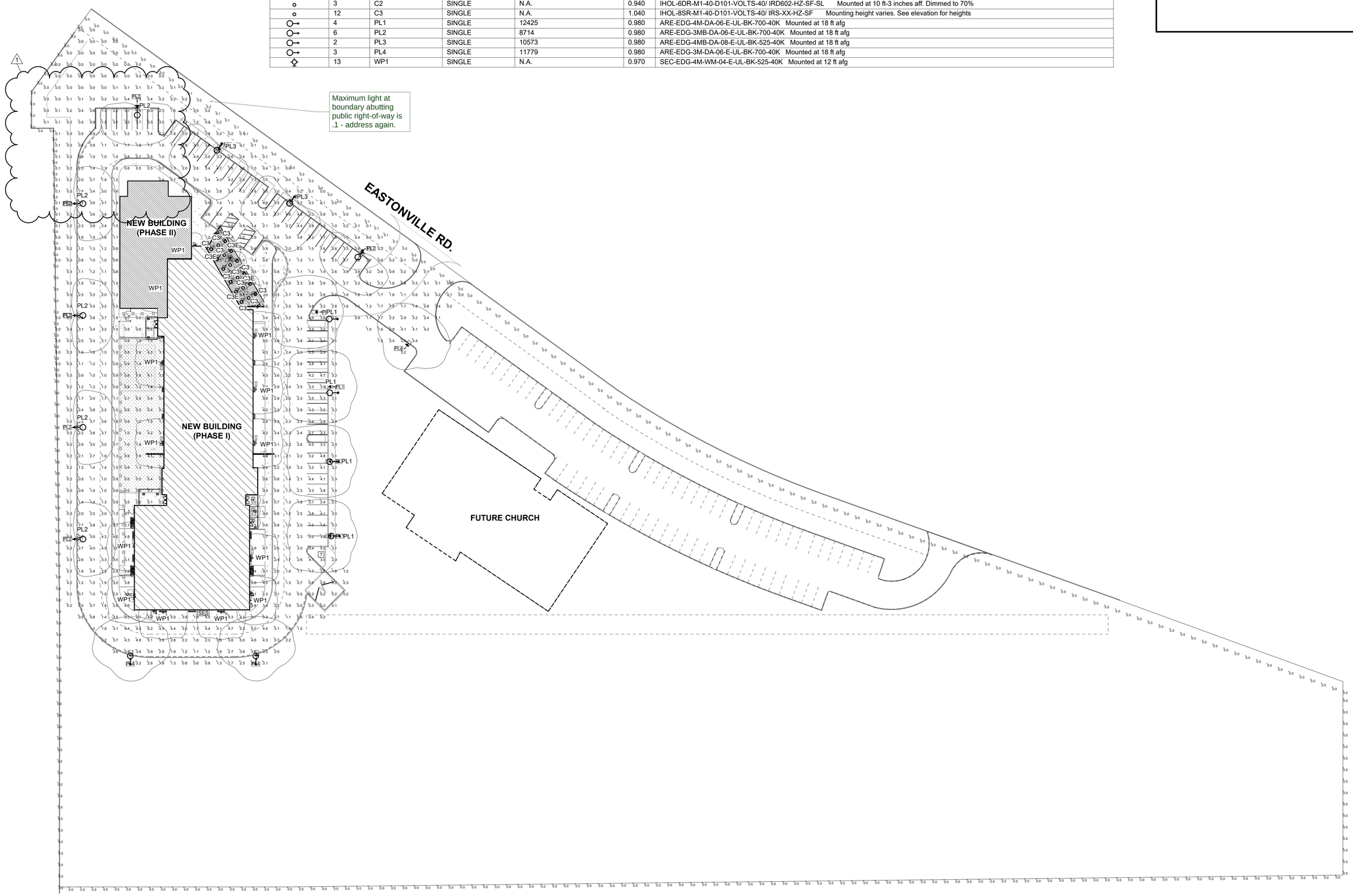
DRAWING TITLE ELECTRICAL SITE PLAN

DRAWING NUMBER E1.1

6/28/2018 5:46:17 PM

WWL Calculation Summary							
Label	**CalcType**	**Units**	**Avg**	**Max**	**Min**	**Avg/Min**	**Max/Min**
Grade	Illuminance	Fc	2.03	9.4	0.0	N.A.	N.A.
Spill at property line	Illuminance	Fc	0.00	0.2	0.0	N.A.	N.A.

WWL Luminaire Schedule						
Symbol	**Qty**	**Label**	**Arrangement**	**Total Lamp Lumens**	**LLF**	**Description**
○	3	C2	SINGLE	N.A.	0.940	IHOL-6DR-M1-40-D101-VOLTS-40/ IRD602-HZ-SF-SL Mounted at 10 ft-3 inches aff. Dimmed to 70%
○	12	C3	SINGLE	N.A.	1.040	IHOL-8SR-M1-40-D101-VOLTS-40/ IRS-XX-HZ-SF Mounting height varies. See elevation for heights
○→	4	PL1	SINGLE	12425	0.980	ARE-EDG-4M-DA-06-E-UL-BK-700-40K Mounted at 18 ft afg
○→	6	PL2	SINGLE	8714	0.980	ARE-EDG-3MB-DA-06-E-UL-BK-700-40K Mounted at 18 ft afg
○→	2	PL3	SINGLE	10573	0.980	ARE-EDG-4MB-DA-08-E-UL-BK-525-40K Mounted at 18 ft afg
○→	3	PL4	SINGLE	11779	0.980	ARE-EDG-3M-DA-06-E-UL-BK-700-40K Mounted at 18 ft afg
⊙	13	WP1	SINGLE	N.A.	0.970	SEC-EDG-4M-WM-04-E-UL-BK-525-40K Mounted at 12 ft afg



1 SITE PHOTOMETRIC CALCULATIONS
SCALE: 1" = 40'-0"

GENERAL NOTES

1 ALL EXTERNAL LIGHTING SHALL BE LOCATED AND DESIGNED TO PREVENT RAYS FROM BEING DIRECTED OFF OF THE PROPERTY UPON WHICH THE LIGHTING IS LOCATED.

LIBERTY TREE ACADEMY

COLORADO LICENSED
40062
06.28.18
PROFESSIONAL ENGINEER
EXPIRES 10/31/2019

carhuff+cueva architects, llc
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tucson, arizona 85716
phone 520.577.4560
www.cca-az.com

NEW SCHOOL CAMPUS FOR:

LIBERTY TREE ACADEMY

8579 EASTONVILLE RD, PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY
1	06.27.18	City Comments	

PROJECT NO. 18001

DATE JUNE 27, 2018

SCALE 1" = 40'-0" | DRAWN BY Author

DRAWING TITLE
ELECTRICAL SITE PHOTOMETRIC CALCULATIONS

DRAWING NUMBER
E1.2

ASEIENGINEERING
2410 W. Royal Palm Rd., Suite A, Phoenix, AZ 8502
www.aseiengineering.com o: 602.287.0300 f: 602.287.0600

JOB NO: 180790 | DFT: ME/SR | DSN:ME/SR | CHK:CLS

6/28/2018 5:46:22 PM

Cree Edge™ Series

LED Area/Flood Luminaire

TYPE: 'SA'

Product Description

The Cree Edge™ Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weathertight LED driver compartment and high performance aluminum heat sinks. Various mounting choices: Adjustable Arm, Direct Arm, Direct Arm Long, or Side Arm (details on page 2). Includes a leaf/debris guard.
Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

Performance Summary

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty[1]: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

[1]See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed	
Bird Spikes XA-BIRDSPK	**Backlight Control Shields** XA-200LS-6 - Four-pack - Unpainted stainless steel.
Hand-Held Remote XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	

Ordering Information

Example: ARE-EDG-2M-AA-12-E-UL-SV-350

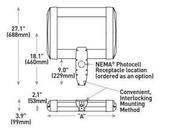
Product	Optic		Mounting*	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options
ARE-EDG	2M Type II Medium	3MB Type II Medium w/BLS	4MP Type IV Medium w/Partial BLS	02 04 06 08 10 12 14 16	E	UL Universal 120-277V UN Universal 347-480V	BK Black BZ Bronze SV Silver WH White	350 350mA 525 525mA 700 700mA - Available with 20-40 LEDs	DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current F Fuse - Refer to ML spec sheet for available with ML options - Available with UL voltage only - Available for U.S. applications only - When code dictates fusing, use time delay fuse ML Multi-Level - Refer to ML spec sheet for details - Sensor not included ML Multi-Level - Refer to ML spec sheet for details - Sensor included - Intended for downlight applications at 9' (oh) P Photocell - Refer to ML spec sheet for availability with ML options - Available with UL voltage only PML Programmable Multi-Level, 20-40' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 9' (oh) PML2 Programmable Multi-Level, 10-20' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 9' (oh) R NEMA® Photocell Receptacle - Not available in 480V applications with maximum 43° tilt - Photocell by others - Refer to RL spec sheet for availability with ML options 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire
FLD-EDG	2S 25° Flood 4D 40° Flood	7D 70° Flood 5W Sign	N4 NEMA® 4	AA Adjustable Arm DA Direct Arm DL Direct Long Arm SA Side Arm - Available with 20-40 LEDs					

* Reference EPA and pole configuration suitability data beginning on page 19
NOTE: Price adder may apply depending on configuration

Rev. Date: V4 09/20/2016

US: lighting.cree.com/lighting T (800) 236-6800 F (262) 504-5415
Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

DA Mount



LED Count (x10)	Dim. "A"	Weight
02	12.1" (306mm)	21 lbs. (10kg)
04	12.1" (306mm)	24 lbs. (11kg)
06	14.1" (357mm)	27 lbs. (12kg)
08	16.1" (409mm)	28 lbs. (13kg)
10	18.1" (459mm)	32 lbs. (15kg)
12	20.1" (510mm)	34 lbs. (15kg)
14	22.1" (560mm)	37 lbs. (17kg)
16	24.1" (611mm)	41 lbs. (19kg)

AA/DL/SA Mount - see page 22 for weight & dimensions

Cree Edge™ LED Area/Flood Luminaire

Product Specifications

CONSTRUCTION & MATERIALS
- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance heat sinks
- DA and DL mount utilizes convenient interlocking mounting method. Mounting is rugged die cast aluminum, mounts to 3-4" (76-102mm) square or round pole and secures to pole with 5/16-18 UNC bolts spaced on 2" (51mm) centers.
- AA and SA mounts are rugged die cast aluminum and mount to 2" (51mm) IP, 2.375" (60mm) O.D. tenons
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimensions and Weight Charts on pages 1 and 22

ELECTRICAL SYSTEM
- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- DA and DL mounts designed with integral weathertight electrical box with terminal strips (12Ga-20Ga) for easy power hookup
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **Maximum 10V Source Current:** 20 LED (350mA): 10mA; 20 LED (525 & 700mA) and 40-80 LED: 0.15mA, 100-160 LED: 0.30mA

REGULATORY & VOLUNTARY QUALIFICATIONS
- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or R options
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards when ordered with AA, DA and DL mounts
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified. Exceptions apply when ordered with full backlight control or 3MP optic with 20 LEDs. Please refer to www.designlights.org/QPL for most current information
- Meets Buy American requirements within ARRA

Electrical Data*

LED Count (x10)	System Watts 120-480V	Total Current (A) 120V	208V	240V	277V	347V	480V
350mA							
02	25	0.21	0.13	0.11	0.10	0.08	0.07
04	44	0.36	0.23	0.21	0.20	0.15	0.12
06	64	0.52	0.31	0.28	0.26	0.20	0.15
08	90	0.75	0.44	0.38	0.34	0.26	0.20
10	110	0.92	0.53	0.47	0.41	0.32	0.24
12	130	1.10	0.63	0.55	0.48	0.38	0.28
14	158	1.32	0.77	0.68	0.62	0.47	0.35
16	179	1.49	0.87	0.77	0.68	0.53	0.39
525mA							
02	37	0.30	0.19	0.17	0.16	0.12	0.10
04	70	0.58	0.34	0.31	0.28	0.21	0.16
06	101	0.84	0.49	0.43	0.38	0.30	0.22
08	133	1.13	0.66	0.58	0.51	0.39	0.28
10	171	1.43	0.83	0.74	0.66	0.50	0.38
12	202	1.69	0.98	0.86	0.77	0.59	0.44
14	232	1.94	1.12	0.98	0.87	0.68	0.50
16	263	2.21	1.27	1.11	0.97	0.77	0.56
700mA							
02	50	0.41	0.25	0.22	0.20	0.15	0.12
04	93	0.78	0.46	0.40	0.36	0.27	0.20
06	134	1.14	0.65	0.57	0.50	0.39	0.29

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%.

Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF)[1]

Ambient	Initial LMF	25K hr Projected[2] LMF	50K hr Projected[2] LMF	75K hr Calculated[3] LMF	100K hr Calculated[3] LMF
5°C (41°F)	1.04	1.01	0.99	0.98	0.96
10°C (50°F)	1.03	1.00	0.98	0.97	0.95
15°C (59°F)	1.02	0.99	0.97	0.96	0.94
20°C (68°F)	1.01	0.98	0.96	0.95	0.93
25°C (77°F)	1.00	0.97	0.95	0.94	0.92

[1]Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2]In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within the exact duplication of the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)
[3]In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)

US: lighting.cree.com/lighting T (800) 236-6800 F (262) 504-5415
Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

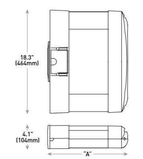
Cree Edge™ Series

LED Security Wall Pack Luminaire

TYPE: WP1/ WP2

Product Description

The Cree Edge™ wall mount luminaire has a slim, low profile design. The luminaire end caps are made from rugged die cast aluminum with integral, weathertight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications. Housing is rugged aluminum. Includes a lightweight mounting box for installation over standard and mud ring single gang J-Boxes. Secures to wall with four 3/16" (5mm) screws (by others). Conduit entry from top, bottom, sides and rear. Allows mounting for uplight or downlight. Designed and approved for easy through-wiring. Includes leaf/debris guard.
Applications: General area and security lighting



Performance Summary

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty[1]: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

[1]See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed	
Bird Spikes XA-BIRDSPK	**Hand-Held Remote** XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

LED Count (x10)	Dim. "A"	Weight
02	9.9" (251mm)	20 lbs. (9.1kg)
04	11.9" (303mm)	22 lbs. (10.0kg)
06	13.9" (353mm)	25 lbs. (11.3kg)
08	15.9" (404mm)	27 lbs. (12.2kg)
10	17.9" (455mm)	31 lbs. (14.1kg)
12	19.9" (505mm)	32 lbs. (14.5kg)

Ordering Information

Example: SEC-EDG-2M-WM-04-E-UL-SV-700

SEC-EDG		WM		E				
Product	Optic	Mounting	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options
SEC-EDG	1M Type I Medium 2MB Type II Medium w/BLS 2S Type II Short 2M Type II Medium 3MB Type III Medium w/BLS 4M Type IV Medium 4MB Type IV Medium w/BLS	WM Wall Mount	02 04 06 08 10 12	E	UL Universal 120-277V UN Universal 347-480V 34 347V	BK Black BZ Bronze SV Silver WH White	350 350mA 525 525mA - Available with 20-80 LEDs 700 700mA - Available with 20-40 LEDs	DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current F Fuse - Refer to ML spec sheet for availability with ML options - Available with UL voltage only - When code dictates fusing, use time delay fuse ML Multi-Level - Refer to ML spec sheet for details - Intended for downlight applications at 0° (oh) P Photocell - Refer to ML spec sheet for availability with ML options - Not specify UL or 34 voltage PML Programmable Multi-Level - Refer to PML spec sheet for details - Intended for downlight applications at 0° (oh) 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire

Rev. Date: V2 07/28/2016

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Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

Cree Edge™ LED Security Wall Pack Luminaire

Product Specifications

CONSTRUCTION & MATERIALS
- Slim, low profile design
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications
- Housing is rugged aluminum
- Furnished with low copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16" (5mm) screws (by others)
- Conduit entry from top, bottom, sides, and rear
- Allows mounting for uplight or downlight
- Designed and approved for easy through-wiring
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultraurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimensions and Weight Chart on page 1

ELECTRICAL SYSTEM
- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral weathertight J-Box with leads (wire nuts) for easy power hook up
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- **Maximum 10V Source Current:** 20 LED (350mA): 10mA; 20LED (525 & 700 mA) and 40-120 LED: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS
- cULus Listed
- Suitable for wet locations
- Meets FCC Part 15 standards for conducted and radiated emissions
- Enclosure rated IP66 per IEC 60529 when ordered without P, PML or ML options
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified. Exceptions apply when ordered with full backlight control. Please refer to www.designlights.org/QPL for most current information
- Dark Sky Friendly, IDA Approved. Please refer to www.darksky.org/ for most current information
- Meets Buy American requirements within ARRA

Electrical Data*

LED Count (x10)	System Watts 120-480V	Total Current 120V	208V	240V	277V	347V	480V
350mA							
02	25	0.21	0.13	0.11	0.10	0.08	0.07
04	44	0.36	0.23	0.21	0.20	0.15	0.12
06	64	0.52	0.31	0.28	0.26	0.20	0.15
08	90	0.75	0.44	0.38	0.34	0.26	0.20
10	110	0.92	0.53	0.47	0.41	0.32	0.24
12	130	1.10	0.63	0.55	0.48	0.38	0.28
525mA							
02	37	0.30	0.19	0.17	0.16	0.12	0.10
04	70	0.58	0.34	0.31	0.28	0.21	0.16
06	101	0.84	0.49	0.43	0.38	0.30	0.22
08	133	1.13	0.66	0.58	0.51	0.39	0.28
10	171	1.43	0.83	0.74	0.66	0.50	0.38
12	202	1.69	0.98	0.86	0.77	0.59	0.44
700mA							
02	50	0.41	0.25	0.22	0.20	0.15	0.12
04	93	0.78	0.46	0.40	0.36	0.27	0.20
06	134	1.14	0.65	0.57	0.50	0.39	0.29

* Electrical data at 25°C (77°F)

Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF)[1]

Ambient	Initial LMF	25K hr Projected[2] LMF	50K hr Projected[2] LMF	75K hr Calculated[3] LMF	100K hr Calculated[3] LMF
5°C (41°F)	1.04	0.99	0.97	0.95	0.93
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.91
20°C (68°F)	1.01	0.96	0.94	0.92	0.90
25°C (77°F)	1.00	0.95	0.93	0.91	0.89

[1]Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2]In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within the exact duplication of the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)
[3]In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)

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KR Series

KR6™ LED Specification Downlight – Round 6"

TYPE 'C3/C3E'

Product Description

The KR6™ LED specification downlight features Cree TrueWhite® Technology and delivers beautiful, high-quality light with efficacy up to 76 lumens per watt. Designed for new construction applications, the KR Series is available in a variety of color temperatures, round and square trims with high-quality anodized aluminum reflector finishes, a sloped ceiling adaptor accessory, and a variety of dimming options including Cree Sunset Dimming Technology which provides rich, warm light that transitions from 2700K to 1800K as naturally as an incandescent source.

Performance Summary

Utilizes Cree TrueWhite® Technology

Initial Delivered Lumens: 700-5,300 lumens; Delivered lumen output is typical when using a SSGC type reflector

Input Power: 13-87 watts

Emergency Performance: Up to 1,210 Lumens; 10W; Minimum 90 Minutes

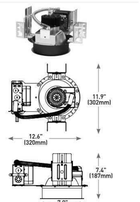
CRI: 90

CCT: 2700K, 3000K, 3500K, 4000K, 5000K

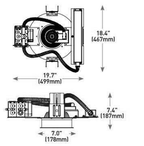
Controls: Triac, 0/1-10V. See control availability chart on page 3

Limited Warranty[1]: 10 years on KR6™ luminaire/1 year on emergency battery pack

[1]See http://lighting.cree.com/warranty for warranty terms



Emergency Backup



Accessories

Field-Installed		
Sloped Ceiling Adaptor KRKSA**WW ** = 0-35 (order in 5-degree increments)	**C-Channel Hanger Bars** RBH24C - Pair of 30" (762mm) rigid 3/4" x 1/2" (19mm x 13mm) C-Channel bars. RBH24C-1 - Pair of 24" (610mm) x 1-1/2" (38mm) x 1/2" (13mm) standard C-Channel bars	**T-Bar Clips** RAACT - Pack of four - For use with RBH24C-1 hanger bars **Trim Ring** KRATR - White

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately.
Example: **Housing**, KR6-2SL-35K-120V-10V + **Reflector**, KR6T-SSGC-FF

Reflector (Housing must be ordered separately)			
KR6T			
Series	**Reflector Finish**	**Flange Finish**	**Options**
KR6T	SSGC Soft Satin Glow, Clear	FF Matches Reflector WF White Paint	WW Wall Wash

Housing (Reflector must be ordered separately)									
KR6									
Series	**Size**	**Reflector**	**Initial Delivered Lumens**	**Optic**	**CCT**	**Voltage**	**Controls**	**Options**
KR	4 4 inch 6 6 inch	Blank Round	9L 700 Lumens – 54 LPW 12L 1,100 Lumens – 61 LPW 18L 1,100 Lumens – 61 LPW 25L 1,700 Lumens – 57 LPW 30L 2,100 Lumens – 65 LPW 39L 2,550 Lumens – 65 LPW 40L 3,200 Lumens – 76 LPW 50L 3,300 Lumens – 61 LPW 57L 3,300 Lumens – 61 LPW - Available on 120V and 277V only	Blank Standard Beam Angle	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K - Available on 40L and 60L only	120 120 Volts 277 277V 277 Volts 347V 347 Volts	Blank - For standard control offering refer to control availability chart on page 3 10V 0/1-10V Dimming - Refer to control availability chart on page 3	WD Sunset Dim - 0-10V, 0/1-10, 0.27K with Triac Dimming only EB7 Emergency Backup - Minimum 90 minutes - 120V, 277V only - Minimum operating temperature: 0°C (32°F)

NOTE: Price adder may apply depending on configuration

Rev. Date: V8 08/31/2016

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KR6™ LED Specification Downlight – Round 6"

Product Specifications

CREE TRUEWHITE® TECHNOLOGY
A revolutionary way to generate high-quality white light. Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics, and lifelong color consistency; all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIAL
- Low brightness parabolic spun Alzak aluminum cone, 0.06" (2mm) thick with polished radius and continuous self-flange
- Soft Satin Glow Clear finish, standard
- 2" (51mm) aperture throat to accommodate all standard and up to 3" (76mm) thick ceilings and provide flexibility in mounting within grid
- Provided with quick mounting brackets for optional carrying channels
- Light engine, optics, and driver accessible from below ceiling

ELECTRICAL SYSTEM
- **Power Factor:** > 0.9 for 120V and 277V
- **Total Harmonic Distortion:** < 20% at full load
- **Input Power:** 120, 277V, or 347V, 50/60Hz
- **Operating Temperature Range:** -18°C - +40°C (0° F - +104°F); minimum operating temperature with EB7 option is 0°C (32°F)
- **10V Source Current:** 9L & 12L: 0.15mA; 25L-40L: 2.2mA; 60L: 0.11mA

CONTROLS
- For standard control offering refer to control availability chart on page 3
- For use with Class 2 dimming systems only. Reference http://lighting.cree.com/products/indoor/new-construction-downlights/kr-series for recommended dimming controls and wiring diagrams

REGULATORY & VOLUNTARY QUALIFICATIONS
- cULus Listed
- Suitable for thru-wiring 84°/2AWG-90°C
- Suitable for damp locations
- Designed for indoor use
- Thermally protected Type NON-IC in accordance with Article 410 of the NEC and UL 1598
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- EnergyStar® certified. Please refer to https://www.energystar.gov/productfinder/product/certified-light-fixtures/results for most current information
- RoHS compliant. Consult factory for additional details

Recommended KR Series Lumen Maintenance Factors (LMF)[1]

Ambient	Initial Delivered Lumens	Initial LMF	25K hr Projected[2] LMF	50K hr Projected[2] LMF	75K hr Calculated[3] LMF	100K hr Calculated[3] LMF
5°C (41°F)	9L and 12L	1.05	1.04	1.03	1.03	1.02
	25L and 30L	1.03	0.99	0.96	0.90	0.86
	40L and 60L	1.03	0.96	0.90	0.83	0.77
10°C (50°F)	9L and 12L	1.04	1.03	1.03	1.02	1.02
	25L and 30L	1.02	0.97	0.93	0.89	0.85
	40L and 60L	1.03	0.95	0.88	0.82	0.76
15°C (59°F)	9L and 12L	1.03	1.02	1.02	1.01	1.01
	25L and 30L	1.01	0.96	0.91	0.88	0.84
	40L and 60L	1.02	0.94	0.87	0.81	0.75
20°C (68°F)	9L and 12L	1.02	1.01	1.00	1.00	0.99
	25L and 30L	1.01	0.95	0.90	0.87	0.83
	40L and 60L	1.01	0.93	0.86	0.80	0.74
25°C (77°F)	9L and 12L	1.00	1.00	1.00	0.99	0.99
	25L and 30L	1.00	0.94	0.89	0.86	0.82
	40L and 60L	1.00	0.92	0.85	0.79	0.74
30°C (86°F)	9L and 12L	0.99	0.99	0.98	0.98	0.98
	25L and 30L	0.97	0.93	0.88	0.85	0.81
	40L and 60L	0.98	0.91	0.84	0.78	0.73
35°C (95°F)	9L and 12L	0.98	0.97	0.97	0.97	0.97
	25L and 30L	0.96	0.92	0.87	0.84	0.80
	40L and 60L	0.96	0.90	0.83	0.77	0.72
40°C (104°F)	9L and 12L	0.97	0.96	0.96	0.96	0.95
	25L and 30L	0.95	0.90	0.86	0.83	0.79
	40L and 60L	0.95	0.88	0.82	0.76	0.71

[1]Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2]In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)
[3]In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)

Installation

- Recommended ceiling cutout 6.5" (165mm)

Note: 30L and 40L versions require marked spacing: 24" (600mm) x 12" (300mm) x ½" (13mm), 24" (600mm) luminaire to luminaire, 12" (300mm) luminaire to side wall, 11" (125mm) above luminaire
60L versions require marked spacing: 48" (1219mm) x 24" (600mm) x 1" (25mm), 48" (1219mm) luminaire to luminaire, 24" (600mm) luminaire to side wall, 11" (125mm) above luminaire

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LIBERTY TREE ACADEMY

EXPIRES 10/31/2019

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tucson, arizona 85716
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PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY

PROJECT NO.
18001

DATE
JUNE 27, 2018

SCALE

DRAWN BY
Author

DRAWING TITLE
EXTERIOR LIGHT FIXTURES CUT SHEETS

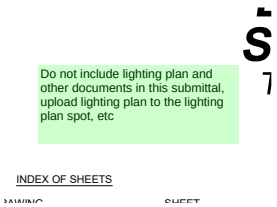
DRAWING NUMBER
E1.3

ASEIENGINEERING
2410 W. Royal Palm Rd., Suite A, Phoenix, AZ 8502
www.aseiengineering.com o: 602.287.0300 f: 602.287.0600
JOB NO: 180790
DFT: ME/SR
DSN:ME/SR
CHK:CLS

6/29/2018 5:46:23 PM

Markup Summary

dsdkendall (4)



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Date: 7/26/2018 11:53:19 AM
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Do not include lighting plan and other documents in this submittal, upload lighting plan to the lighting plan spot, etc

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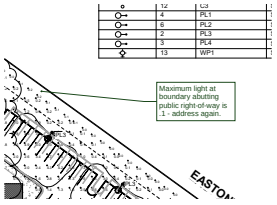

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Author: dsdkendall
Date: 7/26/2018 11:53:22 AM
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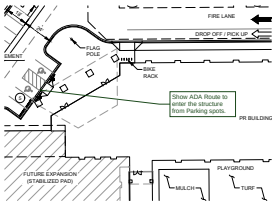
Maximum light at boundary abutting public right-of-way is .1 - address again.



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Author: dsdkendall
Date: 7/26/2018 11:53:23 AM
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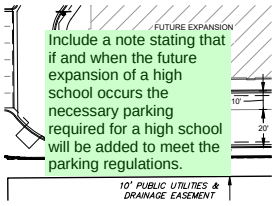
Show ADA Route to enter the structure from Parking spots.



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Page Label: [2] SP01 SP01
Author: dsdkendall
Date: 7/26/2018 12:36:48 PM
Color:

Include a note stating that if and when the future expansion of a high school occurs the necessary parking required for a high school will be added to meet the parking regulations.