

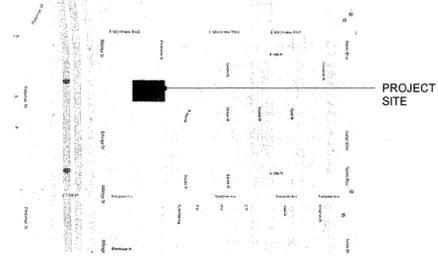
# SOLAR DECATHLON BLACKHAWK

## SITE PLAN NOTES:

- The developer, his successors and assigns, including the homeowners or merchants association, shall be responsible for installation, maintenance and replacement of all fire lane signs as required by the City of Aurora.
- All signs must conform to the City of Aurora sign code.
- Right-of-way for ingress and egress for service and emergency vehicles is granted over, across, on and through any and all private roads and ways now or hereafter established on the described property. The undersigned does hereby covenant and agree that they shall construct upon the fire lane easements, as dedicated and shown here on, a hard surface in accordance with the City of Aurora's paving standards for fire lane easements, and that they shall maintain the same in a state of good repair at all times and keep the same free and clear of any structures, fences, landscape materials, snow or other obstructions. The maintenance of paving on the fire lane easement(s) is the responsibility of the owner, and the owner shall post and maintain appropriate signs in conspicuous places along such fire lane easements, stating "Fire Lane, No Parking." The local law enforcement agency(s) is hereby authorized to enforce parking regulations within the fire lane easements, and to cause such easements to be maintained free and unobstructed at all times for fire department and emergency apparatus use.
- The applicant has the obligation to comply with all applicable requirements of the Americans with Disabilities Act.
- The developer, his successors and assigns, shall be responsible for installation, maintenance and replacement of all landscaping materials shown or indicated on the approved Site Plan or Landscape Plan on file in the Planning Department. All landscaping will be installed prior to issuance of Certificate of Occupancy.
- All crossings or encroachments into easements and rights-of-way owned by the City of Aurora ("City") identified as being privately-owned and maintained herein are acknowledged by the undersigned as being subject to City's use and occupancy of said easements or rights-of-way. The undersigned, its successors and assigns, further agrees to remove, repair, replace, relocate, modify, or otherwise adjust said crossings or encroachments upon request from the City and at no expense to the City. The City reserves the right to make full use of the easements and rights-of-way as may be necessary or convenient and the City retains all rights to operate, maintain, install, repair, remove or relocate any City facilities located within said easements and rights-of-way at any time and in such a manner as it deems necessary or convenient.
- The approval of this document does not constitute final approval of grading, drainage, utility, public improvements and building plans. Construction plans must be reviewed and approved by the appropriate agency prior to the issuance of building permits.
- All building address numbers shall comply with the Aurora City Code, Chapter 126 - Article VII - Numbering of Buildings.
- All rooftop mechanical equipment and vents greater than eight (8) inches in diameter must be screened. Screening may be done either with an extended parapet wall or a freestanding screen wall. Screens shall be at least as high as the equipment they hide. If equipment is visible because screens don't meet this minimum height requirement, the Director of Planning may require construction modifications prior to the issuance of a permanent Certificate of Occupancy.
- Notwithstanding any surface improvements, landscaping, planting or changes shown in these site or construction plans, or actually constructed or put in place, all utility easements must remain unobstructed and fully accessible along their entire length to allow for adequate maintenance equipment. Additionally, no installation, planting, change in the surface, etc., shall interfere with the operation of the utility lines placed within the easement. By submitting these site or construction plans for approval, the landowner recognizes and accepts the terms, conditions and requirements of this note.
- Final grade shall be at least six (6) inches below any exterior wood siding on the premises.
- All interested parties are hereby alerted that this Site Plan is subject to administrative changes and as shown on the original Site Plan on file in the Aurora City Planning Office at the Municipal Building. A copy of the official current plan may be purchased there. Likewise, Site Plans are required to agree with the approved subdivision plat of record at the time of a building permit; and if not, must be amended to agree with the plat as needed, or vice versa.
- Errors in approved Site Plans resulting from computations or inconsistencies in the drawings made by the applicant are the responsibility of the property owner of record. Where found, the current minimum Code requirements will apply at the time of building permit. Please be sure that all plan computations are correct.
- All representations and commitments made by applicants and property owners at public hearings regarding this plan are binding upon the applicant, property owner, and its heirs, successors, and assigns.
- Architectural features, such as bay windows, fireplaces, roof overhangs, gutters, eaves, foundations, footings, cantilevered walls, etc. are not allowed to encroach into any easement or fire lane.
- In locations where utility easements overlap drainage easements, only subsurface utilities shall be permitted within the portion of the utility easement that overlaps the drainage easement. Installation of above ground utilities within a drainage easement requires prior written approval by City Engineer.
- Fire lane and handicapped parking signs, sign details, handicapped parking stall details, and locations shall be submitted and approved with the civil plans, "signage and striping" package. This sign package shall include all other signs as required by other city departments.
- In locations where utility easements overlap drainage easements, only subsurface utilities shall be permitted within the portion of the utility easement that overlaps the drainage easement. Installation of above ground utilities within a drainage easement requires prior written approval by City Engineer.

## SITE PLAN

A PORTION OF TOLLGATE VALLEY GARDENS,  
LOCATED IN THE SOUTHWEST QUARTER OF SECTION 31,  
TOWNSHIP 3 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN  
LOTS 19 & 20 AND ALL VACATED STREET  
CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO



VICINITY MAP  
NOT TO SCALE

## SHEET INDEX:

SHEET 1	COVER SHEET
SHEET 2	SURVEY
SHEET 3	SURVEY
SHEET 4	SITE PLAN
SHEET 5	GRADING AND UTILITY SCHEMATIC
SHEET 6	LANDSCAPE PLAN
SHEET 7	LANDSCAPE DETAILS
SHEET 8	BUILDING ELEVATIONS
SHEET 9	BUILDING ELEVATIONS
SHEET 10	PHOTOMETRIC SITE PLAN
SHEET 11	EXTERIOR LIGHTING FIXTURE CUT SHEETS
SHEET 12	SITE SIGNAGE/MAILBOXES

## PROJECT TEAM:

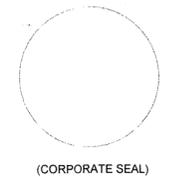
- OWNER:**  
ECLT BLACKHAWK COMMONS LLC  
1705 17TH ST STE 200  
DENVER CO 80202  
DAVID OGUNSANAYA  
303.454.3764
- GENERAL CONTRACTOR:**  
DOMANI HOMES  
XXX STREET NAME  
DENVER, COLORADO 80XXX  
CHRIS REGIS  
303.994.0257
- ARCHITECT:**  
CHRISTOPHER CARVELL ARCHITECTS, P.C.  
3461 RINGSBY COURT SUITE #310  
DENVER, COLORADO 80216  
CHRISTOPHER CARVELL  
720.689.2333
- SURVEYOR:**  
MARTIN/MARTIN CONSULTING ENGINEERS  
12499 WEST COLFAX AVENUE  
LAKEWOOD, COLORADO 80215  
RICHARD A. NOBBE, PLS #23899  
303.431.6100
- CIVIL ENGINEER:**  
MARTIN/MARTIN CONSULTING ENGINEERS  
12499 WEST COLFAX AVENUE  
LAKEWOOD, COLORADO 80215  
JOE RAUSCH  
303.431.6100
- LANDSCAPE ARCHITECT:**  
LIME GREEN DESIGN, INC.  
900 E. LOUISIANA AVENUE, SUITE 209  
DENVER, COLORADO 80210  
MATHEW EVANS  
303.733.7558
- STRUCTURAL ENGINEER:**  
MARTIN/MARTIN CONSULTING ENGINEERS  
12499 WEST COLFAX AVENUE  
LAKEWOOD, COLORADO 80215  
PAUL DOAK  
303.431.6100

## OWNER / APPLICANT SIGNATURES:

**1955 NORTH BLACKHAWK STREET SITE PLAN**  
LEGAL DESCRIPTION: LOT 1, BLOCK 1, SOLAR DECATHLON SUBDIVISION FILING NO. 1,  
ACCORDING TO THE RECORDED PLAT THEREOF, CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

THIS SITE PLAN AND ANY AMENDMENTS HERETO, UPON APPROVAL BY THE CITY OF AURORA AND RECORDING, SHALL BE BINDING UPON THE APPLICANTS THEREFORE, THEIR SUCCESSORS AND ASSIGNS. THIS PLAN SHALL LIMIT AND CONTROL THE ISSUANCE AND VALIDITY OF ALL BUILDING PERMITS, AND SHALL RESTRICT AND LIMIT THE CONSTRUCTION, LOCATION, USE, OCCUPANCY AND OPERATION OF ALL LAND AND STRUCTURES WITHIN THIS PLAN TO ALL CONDITIONS, REQUIREMENTS, LOCATIONS AND LIMITATIONS SET FORTH HEREIN. ABANDONMENT, WITHDRAWAL OR AMENDMENT OF THIS PLAN MAY BE PERMITTED ONLY UPON APPROVAL OF THE CITY OF AURORA.

IN WITNESS WHEREOF, ECLT BLACKHAWK COMMONS LLC HAS CAUSED THESE  
PRESENTS TO BE EXECUTED THIS 20 DAY OF July AD. 2021  
BY: [Signature]  
(PRINCIPALS OR OWNERS)

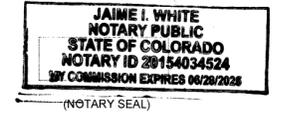


STATE OF COLORADO )SS  
COUNTY OF \_\_\_\_\_ )SS

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 20th DAY OF July AD. 2021

BY: [Signature]  
(PRINCIPALS OR OWNERS)

WITNESS MY HAND AND OFFICIAL SEAL  
NOTARY: [Signature]  
(NOTARY PUBLIC)



MY COMMISSION EXPIRES 6/20/2025  
NOTARY BUSINESS ADDRESS: 1030 W Ellsworth Denver, CO 80231

## CITY OF AURORA APPROVALS:

CITY ATTORNEY: \_\_\_\_\_ DATE: 8/2/21  
PLANNING DIRECTOR: [Signature] DATE: 7-29-2021  
PLANNING COMMISSION: \_\_\_\_\_ DATE: 7/23/21  
(CHAIRPERSON)  
CITY COUNCIL: \_\_\_\_\_ DATE: N/A  
(MAYOR)  
ATTEST: \_\_\_\_\_ DATE: N/A  
(CITY CLERK)  
DATABASE APPROVAL DATE: 1/8/2020

RECORDER'S CERTIFICATE:  
ACCEPTED FOR FILING IN THE OFFICE OF THE CLERK AND RECORDER OF  
COLORADO AT \_\_\_\_\_ O'CLOCK \_\_\_\_\_ M, THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ AD, \_\_\_\_\_  
CLERK AND RECORDER: \_\_\_\_\_ DEPUTY: \_\_\_\_\_

## RECORDERS CERTIFICATE:

ACCEPTED FOR FILING IN THE OFFICE OF THE CLERK AND RECORDER OF  
\_\_\_\_\_ COLORADO AT \_\_\_\_\_ O'CLOCK \_\_\_\_\_ M, THIS \_\_\_\_\_  
DAY OF \_\_\_\_\_ AD, \_\_\_\_\_  
CLERK AND RECORDER: \_\_\_\_\_ DEPUTY: \_\_\_\_\_

## SITE PLAN DATA BLOCK:

LAND AREA WITHIN PROPERTY LINES	0.62 AC
2015 IRC - ONE AND TWO - FAMILY DWELLINGS	
NUMBER OF BUILDINGS	3 (SINGLE-FAMILY DWELLINGS)
BUILDING HEIGHT	
HOUSE A (OUR H2HOUSE)	12'-8"
HOUSE B (SILO HOUSE)	16'-8"
HOUSE C (INDIE DWELL I)	12'-6"
HOUSE D (INDIE DWELL II)	13'-3"
BUILDING SQUARE FOOTAGE	
HOUSE A (OUR H2HOUSE)	1,010 SF
HOUSE B (SILO HOUSE)	1,053 SF
HOUSE C (INDIE DWELL I)	980 SF
HOUSE D (INDIE DWELL II)	1,018 SF
TOTAL BUILDING COVERAGE AND GFA	4,042 SF (14.9%)
HARD SURFACE AREA	9,049.59 SF (33.5%)
LANDSCAPE AREA	11,190.34 SF (41.4%)
SIDEWALKS AND PATIOS	2,760 SF (10.2%)
PRESENT ZONING CLASSIFICATION	R-2
PARKING SPACES REQUIRED (TOTAL)	8
PARKING SPACES PROVIDED (TOTAL)	9
ACCESSIBLE PARKING SPACES REQUIRED	1
ACCESSIBLE PARKING SPACES PROVIDED	1 (Van Accessible)

1 MA #2019-4019-01: DECK REDUCTION FOR HOUSE A AND B AND SIDEWALK EXPANSION TO DECKS. FACADE MODIFICATIONS FOR HOUSE B AND REMOVAL OF TRELLIS ON HOUSE A. NEW FLOOR PLAN FOR HOUSE D.

# SOLAR DECATHLON BLACKHAWK

## SITE PLAN

A PORTION OF TOLLGATE VALLEY GARDENS,  
 LOCATED IN THE SOUTHWEST QUARTER OF SECTION 31,  
 TOWNSHIP 3 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN  
 LOTS 19 & 20 AND ALL VACATED STREET  
 CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

### LEGAL DESCRIPTION SHEET 1 OF 1

(PROVIDED BY FIRST INTEGRITY TITLE COMPANY)  
 COMMITMENT FILE NUMBER 105-1900489-S  
 (Dated JANUARY 10, 2019)

VACANT LAND BLACKHAWK STREET  
 LOT 19, TOLLGATE VALLEY GARDENS ACCORDING TO THE  
 RECORDED PLAT THEREOF, CITY OF AURORA, COUNTY OF  
 ADAMS, STATE OF COLORADO  
 TOGETHER WITH THAT PORTION OF VACATED BLACKHAWK  
 STREET ADJACENT AND APPURTENANT AS VACATED UNDER  
 ORDINANCE NO. 72-170 RECORDED SEPTEMBER 29, 1972 AT  
 RECEPTION NO. 975345 IN BOOK 1821 AT PAGE 228.

#### NOTES:

- "NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON."
- FIRST INTEGRITY TITLE COMPANY, FILE NUMBER 105-1900489-S, DATED JANUARY 10-11, 2019 WAS ENTIRELY RELIED UPON FOR RECORDED INFORMATION REGARDING RIGHTS-OF-WAY, EASEMENTS AND ENCUMBRANCES IN THE PREPARATION OF THIS SURVEY. THE PROPERTY SHOWN AND DESCRIBED HEREON IS ALL THE PROPERTY DESCRIBED IN SAID TITLE COMMITMENT.
- THIS LAND SURVEY PLAT WAS PREPARED FOR THE EXCLUSIVE USE OF ECLT BLACKHAWK COMMONS, LLC, AND FIRST INTEGRITY TITLE COMPANY, NAMED IN THE STATEMENT HEREON, SAID STATEMENT DOES NOT EXTEND TO ANY UNNAMED PERSON WITHOUT AN EXPRESS STATEMENT BY THE SURVEYOR NAMING SAID PERSON.
- THIS SURVEY IS VALID ONLY IF PRINT HAS ORIGINAL SEAL AND SIGNATURE OF SURVEYOR.
- ALL UNDERGROUND UTILITIES MUST BE FIELD LOCATED BY THE APPROPRIATE AGENCY OR UTILITY COMPANY PRIOR TO ANY EXCAVATION PURSUANT TO C.R.S. SEC. 9-1.5-103.
- THE DISTANCE MEASUREMENTS SHOWN HEREON ARE U.S. SURVEY FOOT.
- DATES OF FIELDWORK: JANUARY 15-17, 2019.
- ANY PERSON WHO KNOWINGLY REMOVES, ALTERS OR DEFACES ANY PUBLIC LAND SURVEY MONUMENT AND/OR BOUNDARY MONUMENT OR ACCESSORY, COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO STATE STATUTE C.R.S. SEC. 18-4-508.
- ONLY SPECIFIC IMPROVEMENTS ARE SHOWN HEREON FOR INFORMATIONAL PURPOSES. THIS IS NOT AN IMPROVEMENT SURVEY PLAT AS DEFINED BY C.R.S. 38-51-102 (9).
- THIS PLAT OF "TOLLGATE VALLEY GARDENS" WAS RECORDED IN ADAMS COUNTY, COLORADO AT RECEPTION NO. 388428 AT MAP BOOK F9 AT PAGE 113 ON 08-5-1952.
- IN ACCORDANCE WITH C.R.S. 38-51-106 (1) (b) (II), THE CLIENT WISHES THAT ALL EASEMENTS AND RIGHT-OF-WAY'S NOT BE SHOWN.
- BASIS OF BEARING: ASSUMED S89°31'02"E BETWEEN FOUND MONUMENTS LOCATED IN TOLLGATE VALLEY GARDENS AND BLOCK 6, HILLVIEW, AS SHOWN AND DESCRIBED HEREON WITH ALL BEARINGS SHOWN HEREIN RELATIVE THERETO.
- FENCE LINES AS SHOWN AND DESCRIBED HEREON MEASURED TO THE CENTER LINE OF THE FENCE POSTS.
- LOT AREA CALCULATION:  
 LOT 19 - 13,523 sq. ft. OR 0.31 acres.

**SURVEYOR'S STATEMENT**  
 I, ROBERT M. HAYDEN, A DULY REGISTERED LAND SURVEYOR, LICENSED IN THE STATE OF COLORADO, HEREBY STATE FOR AND ON BEHALF OF R.E. PORT & ASSOCIATES, INC., TO ECLT BLACKHAWK COMMONS, LLC, AND FIRST INTEGRITY TITLE COMPANY, THAT A SURVEY OF THE ABOVE DESCRIBED PREMISES WAS CONDUCTED BY ME OR UNDER MY RESPONSIBLE CHARGE ON 01/15-17/2019; THAT SAID SURVEY AND THE ATTACHED PRINT HEREON WERE MADE IN SUBSTANTIAL ACCORDANCE WITH C.R.S. 38-51-106 "LAND SURVEY PLAT".

ROBERT M. HAYDEN  
 P.L.S. #27268  
 R.E. PORT & ASSOCIATES, INC.  
 JOB NO. 19-11

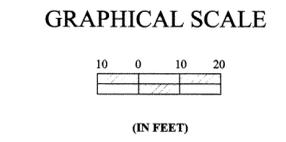
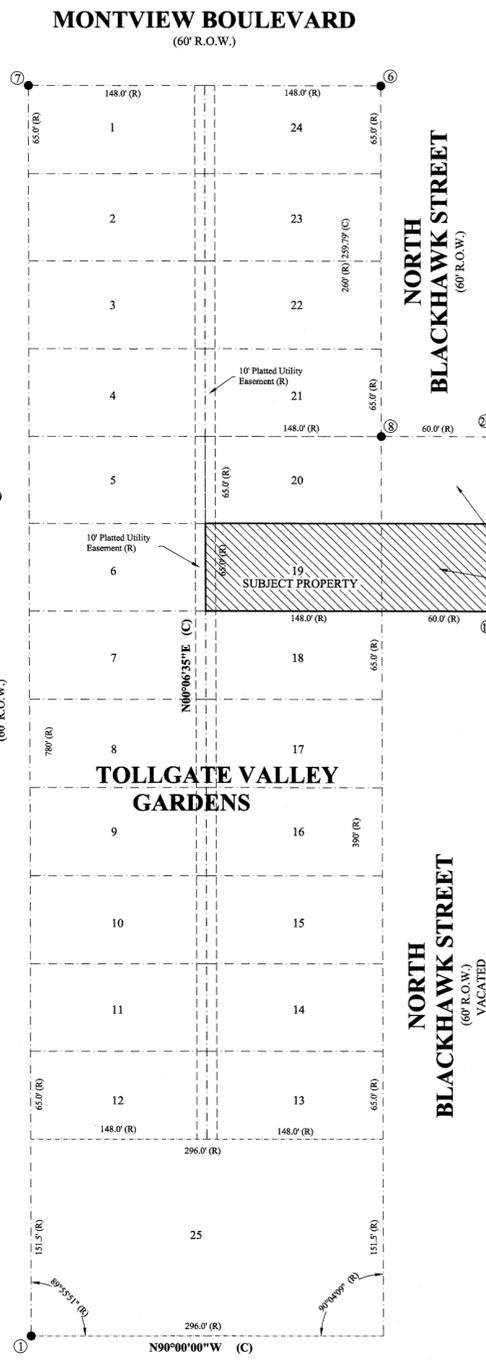


### R.E. PORT & ASSOCIATES, INC.

#### LAND SURVEYING COMPANY

JOB NO. 19-11	DATE: 01/23/2019
CLIENT: ECLT BLACKHAWK COMMONS, LLC., FIRST INTEGRITY TITLE COMPANY	
PROPERTY ADDRESS: BLACKHAWK STREET, VACANT LOT, AURORA, COLORADO, 80011	
DRAWN BY: RMH	
R.E. PORT & ASSOCIATES, INC. 5460 WARD ROAD #160, ARVADA, CO, 80002 303-420-4788 FAX-303-420-0459 E MAIL INFO@REPORTLANDSURVEY.COM	

#### CONTROL DIAGRAM (NOT TO SCALE)



#### DESCRIPTION OF CONTROL MONUMENTS PURSUANT TO C.R.S. 38-51-106(1)(f)

- ① Found No. 5 Rebar with 1" Plastic Cap, L.S.10717
- ② Found No. 5 Rebar with 1" Plastic Cap Illegible (3.0' Witness Corner South)
- ③ Found 1" Bar
- ④ Found 1" Bar
- ⑤ Found No. 4 Rebar (Bent)
- ⑥ Found No. 5 Rebar with 1" Plastic Cap, L.S.37955 (2.0' Witness Corner West)
- ⑦ Set No. 5 Rebar with 1" Plastic Cap, L.S.27268 (2.0' Witness Corner West)

#### CONTROL DATA PURSUANT TO 38-51-106(1)(c), C.R.S.

- Point # 10 to Point # 2 = S00°06'14"E, 544.41' (M)
- Point # 2 to Point # 1 = N89°31'02"W, 356.01' (M)
- Point # 1 to Point # 7 = N00°01'00"E, 935.95' (M)
- Point # 7 to Point # 6 = S89°11'19"E, 297.48' (M)
- Point # 6 to Point # 8 = S00°03'54"W, 259.79' (M)
- Point # 8 to Point # 20 = S89°26'38"E, 57.83' (C)

- LEGEND**
- FOUND MONUMENT AS SHOWN AND DESCRIBED HEREON
  - SET 5/8" REBAR/1" PLASTIC CAP L.S.27268 (18" REBAR) UNLESS OTHERWISE NOTED.
  - (M) MEASURED DISTANCE OR DIRECTION
  - (L) AS PER LEGAL RECORDS
  - (C) CALCULATED MEASUREMENT OR DIRECTION
  - (R) AS PER RECORD INFORMATION
  - FENCE LINE
  - ASPHALT
  - - - - PLATTED LOT LINE

#### EVERGREEN AVENUE (60' R.O.W.)

NOTE:  
 BASIS OF BEARING - S89°31'02"E, 356.01' (M)  
 Between Point 1 and Point 2 as shown hereon.  
 (See Notes No. 12)

## LAND SURVEY PLAT

OF A PORTION OF TOLLGATE VALLEY GARDENS, LOCATED IN THE SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 3 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF ADAMS, STATE OF COLORADO.

INDEXING STATEMENT:  
 DEPOSITED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ AT \_\_\_\_\_ M,  
 IN BOOK \_\_\_\_\_ OF THE COUNTY SURVEY/  
 RIGHT OF WAY SURVEYS AT PAGE(S) \_\_\_\_\_ RECEPTION  
 NUMBER \_\_\_\_\_

COUNTY SURVEYOR OR DEPUTY COUNTY SURVEYOR

N  
  
**SURVEY**  
 SHEET 2 of 12

# SOLAR DECATHLON BLACKHAWK

## SITE PLAN

A PORTION OF TOLLGATE VALLEY GARDENS,  
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 LOTS 19 & 20 AND ALL VACATED STREET  
 CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

### LEGAL DESCRIPTION

SHEET 1 OF 1

(PROVIDED BY FIRST INTEGRITY TITLE COMPANY)  
**COMMITMENT FILE NUMBER 105-1900490-S**  
 (Dated JANUARY 11, 2019)

VACANT LAND BLACKHAWK STREET

LOT 20, TOLLGATE VALLEY GARDENS, ACCORDING TO THE RECORDED PLAT THEREOF, CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO TOGETHER WITH THAT PORTION OF VACATED BLACKHAWK STREET ADJACENT AND APPURTENANT AS VACATED UNDER ORDINANCE NO. 72-170 RECORDED SEPTEMBER 29, 1972 AT RECEPTION NO. 975345 IN BOOK 1821 AT PAGE 228.

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- THIS LAND SURVEY PLAT WAS PREPARED FOR THE EXCLUSIVE USE OF ECLT BLACKHAWK COMMONS, LLC. AND FIRST INTEGRITY TITLE COMPANY, NAMED IN THE STATEMENT HEREON. SAID STATEMENT DOES NOT EXTEND TO ANY UNNAMED PERSON WITHOUT AN EXPRESS STATEMENT BY THE SURVEYOR NAMING SAID PERSON.
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ROBERT M. HAYDEN  
 P.L.S. #27238  
 R.E. PORT & ASSOCIATES, INC.  
 JOB NO. 19-11A

**R.E. PORT & ASSOCIATES, INC.**  
 LAND SURVEYING COMPANY

JOB NO. 19-11A	DATE: 01/23/2019
CLIENT: ECLT BLACKHAWK COMMONS, LLC. AND FIRST INTEGRITY TITLE COMPANY	
PROPERTY ADDRESS: BLACKHAWK STREET, VACANT LOT, AURORA, COLORADO, 80011	
DRAWN BY: RMH	
R.E. PORT & ASSOCIATES, INC. 5460 WARD ROAD #160, ARVADA, CO. 80002 303-420-4788 FAX-303-420-0459 E-MAIL: INFO@REPORTLANDSURVEY.COM	

INDEXING STATEMENT:  
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 IN BOOK \_\_\_\_\_ OF THE COUNTY SURVEY/  
 RIGHT OF WAY SURVEYS AT PAGE(S) \_\_\_\_\_, RECEPTION  
 NUMBER \_\_\_\_\_

CONTROL DIAGRAM  
 (NOT TO SCALE)

MONTVIEW BOULEVARD  
 (60' R.O.W.)

BLOCK 6  
 Hillview

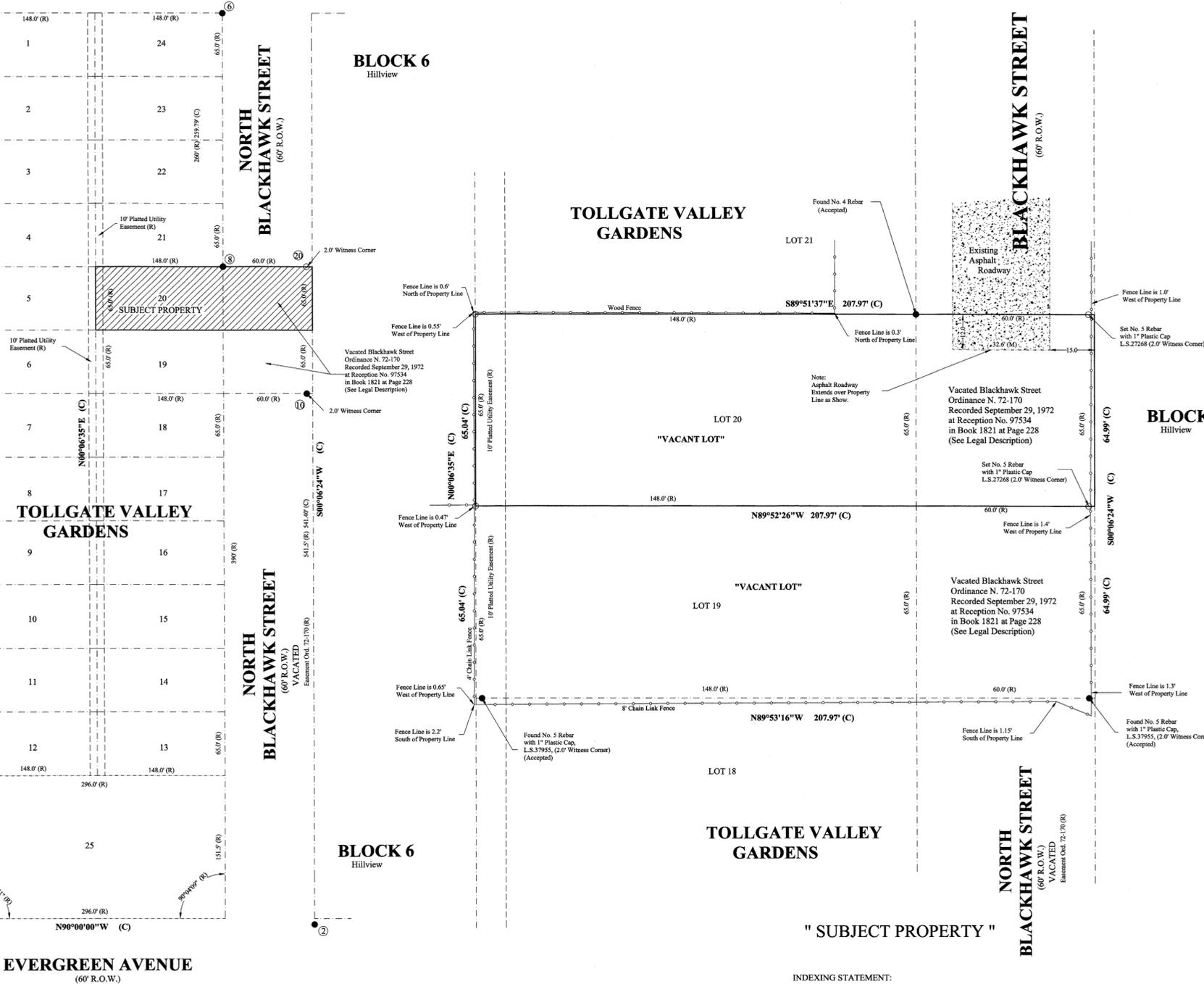
TOLLGATE VALLEY  
 GARDENS

BLOCK 6  
 Hillview

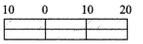
TOLLGATE VALLEY  
 GARDENS

# LAND SURVEY PLAT

OF A PORTION OF TOLLGATE VALLEY GARDENS, LOCATED IN THE SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 3 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF ADAMS, STATE OF COLORADO.



GRAPHICAL SCALE



(IN FEET)

DESCRIPTION OF CONTROL MONUMENTS  
 PURSUANT TO C.R.S. 38-51-106(1)(f)

- ① Found No. 5 Rebar with 1" Plastic Cap, L.S.10717
- ② Found No. 5 Rebar with 1" Plastic Cap Illegible (3.0' Witness Corner South)
- ③ Found 1" Bar
- ④ Found 1" Bar
- ⑤ Found No. 4 Rebar (Ben)
- ⑥ Found No. 5 Rebar with 1" Plastic Cap, L.S.37955 (2.0' Witness Corner West)
- ⑦ Set No. 5 Rebar with 1" Plastic Cap, L.S.27268 (2.0' Witness Corner West)

CONTROL DATA  
 PURSUANT TO 38-51-106.(1),(C), C.R.S.

- Point # 10 to Point # 2 = S00°06'14"E, 544.41' (M)
- Point # 2 to Point # 1 = N89°31'02"W, 356.01' (M)
- Point # 1 to Point # 7 = N00°01'00"E, 935.95' (M)
- Point # 7 to Point # 6 = S89°11'19"E, 297.48' (M)
- Point # 6 to Point # 8 = S00°03'54"W, 259.79' (M)
- Point # 8 to Point # 20 = S89°26'38"E, 57.83' (C)

### LEGEND

- FOUND MONUMENT AS SHOWN AND DESCRIBED HEREON
- SET 5/8" REBAR/1" PLASTIC CAP L.S.27268 (18" REBAR) UNLESS OTHERWISE NOTED.
- (M) MEASURED DISTANCE OR DIRECTION
- (L) AS PER LEGAL RECORDS
- (C) CALCULATED MEASUREMENT OR DIRECTION
- (R) AS PER RECORD INFORMATION
- FENCE LINE
- ASPHALT
- - - - - PLATTED LOT LINE

NOTE:  
 BASIS OF BEARING - S89°31'02"E, 356.01' (M)  
 Between Point 1 and Point 2 as shown hereon.  
 (See Notes No. 12)

LAND SURVEY  
 SHEET 3 OF 12

COUNTY SURVEYOR OR DEPUTY COUNTY SURVEYOR

# SOLAR DECATHLON BLACKHAWK

## SITE PLAN

A PORTION OF TOLLGATE VALLEY GARDENS,  
 LOCATED IN THE SOUTHWEST QUARTER OF SECTION 31,  
 TOWNSHIP 3 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN  
 LOTS 19 & 20 AND ALL VACATED STREET  
 CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

**EXISTING DECKS (SILO HOUSE AND OUR H2OUSE)**  
 1. EXISTING DECKING MATERIAL FROM THE ORIGINAL DECKS WILL BE RE-INSTALLED ON NEW 2X PRESSURE TREATED LUMBER FRAMING  
 2. TRIM AND RAILINGS TO BE CEDAR OR REDWOOD TO REPLICATE THE ORIGINAL DESIGN OF THE TRIM AND RAILINGS

**NEW DECKS (THE BEACH HOUSE AND INDIEDWELL HOUSE)**  
 1. FRAMING WILL BE 2X PRESSURE TREATED LUMBER WITH JOIST @ 16" O.C.  
 2. DECK BOARDS WILL BE COMPOSITE MATERIAL SIMILAR TO TREX DECKING, COLOR SIMILAR TO THE EXISTING DECKS  
 3. TRIM AND RAILINGS TO BE CEDAR OR REDWOOD, FINAL DESIGN STILL TO BE DETERMINED.

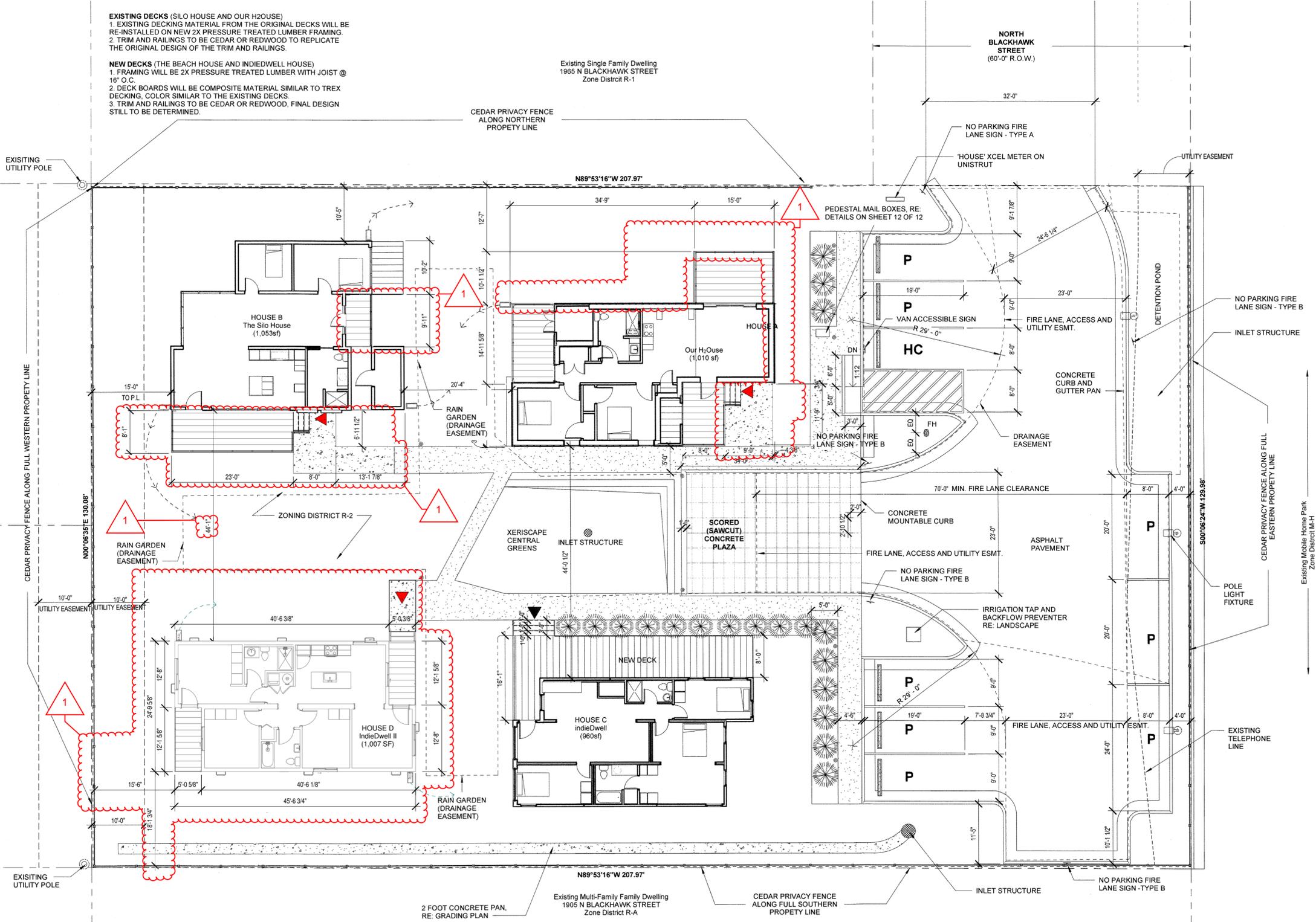
Existing Single Family Dwelling  
 1965 N BLACKHAWK STREET  
 Zone District R-1

Existing Single Family Dwelling  
 1970 N BILLINGS STREET  
 Zone District R-R

Existing Single Family Dwelling  
 1960 N BILLINGS STREET  
 Zone District R-R

Existing Single Family Dwelling  
 1956 N BILLINGS STREET  
 Zone District R-R

Existing Single Family Dwelling  
 1950 N BILLINGS STREET  
 Zone District R-R



1 LEVEL 1 FLOOR PLAN SDP

**GENERAL NOTE:**  
 1. CLOUDED AREAS SHOW REMOVED: DECK, STAIRS, PLANTERS + SEATS AND TRELLIS. THEY ALSO SHOW NEW STAIR LOCATION AND SIDEWALK EXTENSION.  
 2. HOUSE D "BEACH HOUSE" REPLACED WITH "INDIEDWELL II" FLOOR PLAN LAYOUT.

**CHRISTOPHER CARVELL ARCHITECTS**  
 PROFESSIONAL CORPORATION  
 3141 N. IRVING ST. #200, DENVER, CO 80211  
 720.689.2333 • WWW.CARVELLARCHITECTS.COM



# SOLAR DECATHLON BLACKHAWK

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### PLANT LIST

ABBR	QUANT	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
<b>TREES</b>					
AGF	2	ACER GINNALA 'FLAME'	FLAME AMUR MAPLE	6'	CLUMP, B+B
AAR	4	AMELANCHIER ALNIFOLIA 'REGENT'	REGENT SERVICEBERRY	6'	CLUMP, B+B
CCI	2	CRATAEGUS CRUS-GALLI 'NERMIS'	THORNLESS COCKSPUR HAWTHORN	6'	CLUMP, B+B
GPS	2	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY GINKGO	2.5" CAL.	B+B
GDE	1	GYMNOCLADUS DIOICUS 'ESPRESSO'	ESPRESSO KENTUCKY COFFEETREE	2.5" CAL.	B+B
<b>SHRUBS</b>					
CDK	12	CARYOPTERIS X CLANDONENSIS 'DARK KNIGHT'	DARK KNIGHT BLUEMIST SPIREA	5 GAL.	CONT.
CI	11	CERCOPARPUS INTRICATUS	LITTLELEAF MOUNTAIN MAHOGANY	5 GAL.	CONT.
CM	5	CHAMAEBATARIA MILLEFOLIUM	FERNBUSH	5 GAL.	CONT.
CSI	29	CORNUS SERICEA 'ISANTI'	ISANTI DOGWOOD	5 GAL.	CONT.
DCM	12	DAPHNE X BURKWOODI 'CAROL MACKIE'	CAROL MACKIE DAPHNE	5 GAL.	CONT.
FP	10	FALLUGIA PARADOXA	APACHE PLUME	5 GAL.	CONT.
JSA	13	JUNIPERUS SABINA 'ARCADIA'	ARCADIA JUNIPER	5 GAL.	CONT.
RGL	5	RHUS AROMATICA 'GRO-LOW'	DWARF FRAGRANT SUMAC	5 GAL.	CONT.
RGM	12	RIBES ALPINUM 'GREEN MOUND'	GREEN MOUND ALPINE CURRANT	5 GAL.	CONT.
RA	15	RIBES AUREUM	GOLDEN CURRANT	5 GAL.	CONT.
SPN	14	SALIX PURPUREA 'NANA'	DWARF ARCTIC WILLOW	5 GAL.	CONT.
SNS	18	SPIRAEA NIPPONICA 'SNOWMOUND'	SNOWMOUND SPIREA	5 GAL.	CONT.
SA	14	SYMPHORICARPOS ALBUS	WHITE SNOWBERRY	5 GAL.	CONT.
SB	6	SYRINGA X BLOOMERANG	BLOOMERANG REBLOOMING LILAC	5 GAL.	CONT.
<b>GROUNDCOVERS + ORNAMENTAL GRASSES</b>					
EFC	7	EUONYMUS FORTUNEI 'COLORATUS'	PURPLELEAF WINTERCREEPER	1 GAL.	CONT.
PAH	24	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS	5 GAL.	CONT.

### SEED MIX

**NATIVE SEED MIX**  
 DRYLAND GRASS MIX DRILL SEEDED AT A RATE OF 30 POUNDS PURE LIVE SEED (PLS) PER ACRE, OR BROADCAST SEEDED AT 60 POUNDS PURE LIVE SEED (PLS) PER ACRE. RATES BELOW ARE GIVEN FOR DRILLED SEED.

SPECIES	PLS POUNDS PER ACRE
BUFFALOGRASS - BOUTELOUA DACTYLOIDES	6.4
BLUE GRAMA GRASS - BOUTELOUA GRACILIS	6
SIDEOATS GRAMA GRASS - BOUTELOUA CIRTIPEPENDULA	3.6
WESTERN WHEATGRASS - PASCOPYRUM SMITHII	9.6
THICKSPIKE WHEATGRASS - AGROPYRON DASYSTACHYUM	2.2
SLENDER WHEATGRASS - AGROPYRON TRACHYCAULUM	2.2

### STANDARD NOTES

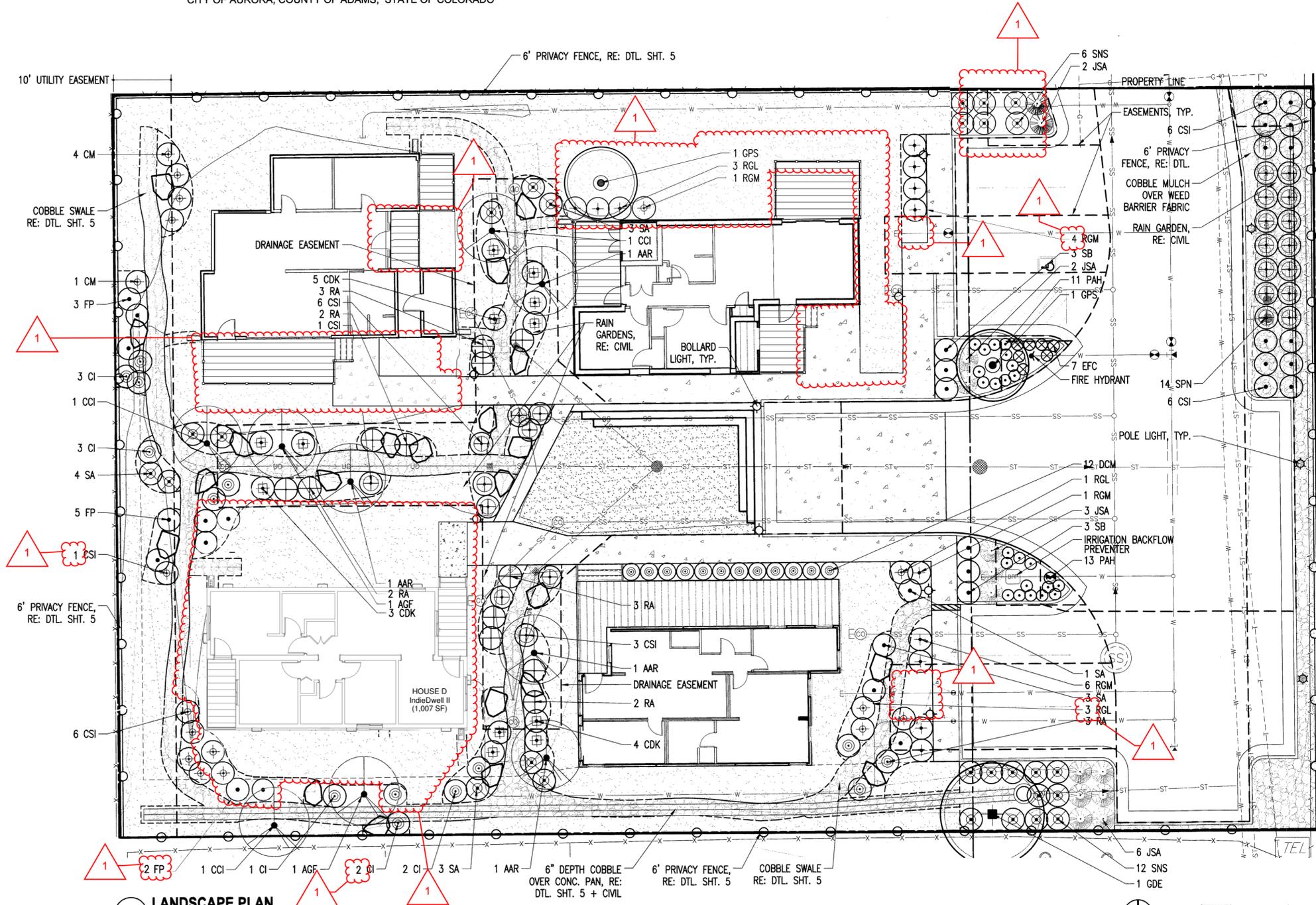
- SOIL FERTILIZER REQUIREMENTS SHALL BE DETERMINED BASED ON SOIL ANALYSIS TO BE DONE BY CONTRACTOR. IN SEED, SOD AND PLANTING AREAS APPLY THE EQUIVALENT OF A MINIMUM OF SIX CUBIC YARDS OF CLASS 1 COMPOST PER 1,000 SF.
- NEW VEHICULAR PAVING SHALL BE ASPHALT, SIDEWALKS SHALL BE CONCRETE.
- ALL UTILITY EASEMENTS SHALL REMAIN UNOBSTRUCTED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH FOR MAINTENANCE EQUIPMENT ENTRY.
- ALL LANDSCAPED AREAS AND PLANT MATERIAL, EXCEPT FOR NON-IRRIGATED, RESTORATIVE, AND DRYLAND GRASS AREAS THAT COMPLY WITH THE REQUIREMENTS FOUND IN SEC. 146-1429 AND/OR SEC 146-1435 MUST BE WATERED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. IRRIGATION SYSTEM DESIGN, INSTALLATION, OPERATION, AND MAINTENANCE SHALL CONFORM TO REQUIREMENTS FOUND IN THE CITY OF AURORA IRRIGATION ORDINANCE.
- MULCH ALL PLANTING BEDS WITH 3" DEPTH WOOD MULCH AROUND SHRUBS, AND 2" DEPTH WOOD MULCH AROUND PERENNIALS/GROUNDCOVERS/ORNAMENTAL GRASSES (NO WEED BARRIER FABRIC), EXCEPT WHERE NOTED. IN AREAS SHOWN TO BE MULCHED WITH COBBLE MULCH, DEPTH OF MULCH TO BE MINIMUM 8", PLACE OVER WEED BARRIER FABRIC. TREES IN LAWN & SEEDED AREAS SHALL BE MULCHED WITH 3" DEPTH OF WOOD MULCH.
- THE LANDSCAPE MATERIAL SHALL NOT BE PLACED OR KEPT NEAR FIRE HYDRANTS IN A MANNER THAT WOULD PREVENT SUCH EQUIPMENT FROM BEING IMMEDIATELY DISCERNIBLE. A 5-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS. LANDSCAPING MATERIAL SHOWN WITHIN THE SITE PLAN CANNOT ENCLOSE INTO ROADWAYS THAT ARE DEDICATED (OR DESIGNATED) AS FIRE LANE EASEMENTS (OR CORRIDORS).

### IRRIGATION NOTES

- THE FINAL SYSTEM DESIGN SHALL COMPLY WITH ALL CITY OF AURORA'S REGULATIONS AND REQUIREMENTS.
- A RAIN SENSOR SHALL BE INSTALLED AS PART OF THE IRRIGATION SYSTEM, WITH AUTOMATIC SHUT-OFF OF THE SYSTEM DURING PERIODS OF HIGH MOISTURE.
- THE IRRIGATION SYSTEM SHALL INCLUDE AN IRRIGATION CLOCK WHICH ALLOWS PROGRAMMING TO MEET THE DIFFERENTIAL NEEDS OF THE SPECIFIED PLANTING PLAN.
- ALL SHRUB, ORNAMENTAL GRASSES AND GROUNDCOVER AREAS TO BE IRRIGATED WITH A DRIP IRRIGATION SYSTEM. IRRIGATED LAWN TO BE IRRIGATED WITH POP-UP SPRAY HEADS.
- SELECT DRIP EMITTER FLOW RATES TO MATCH WATER DEMAND OF EACH PLANT SPECIES.

### SYMBOLS LEGEND

- IRRIGATED SOD - MIN. THREE VARIETIES OF DROUGHT TOLERANT KENTUCKY BLUEGRASS
- NATIVE SEED MIX
- COBBLE DRAINAGE SWALE, RE: DETAIL SHEET 5 + COBBLE MULCH
- QUARRIED BOULDERS
- WOOD PRIVACY FENCE, RE: DETAIL
- LANDSCAPE EDGER



1 LANDSCAPE PLAN

**GENERAL NOTE:**

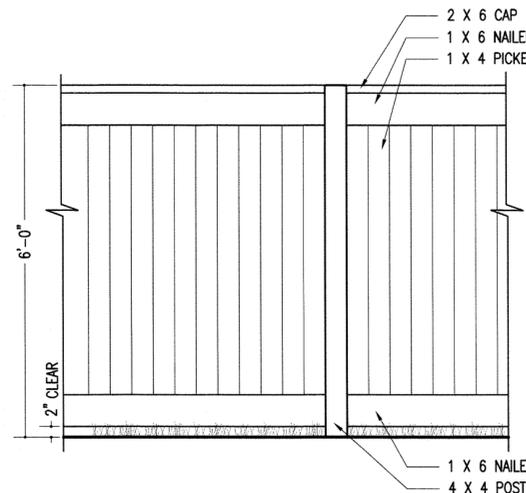
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**NOT FOR CONSTRUCTION**

# SOLAR DECATHLON BLACKHAWK

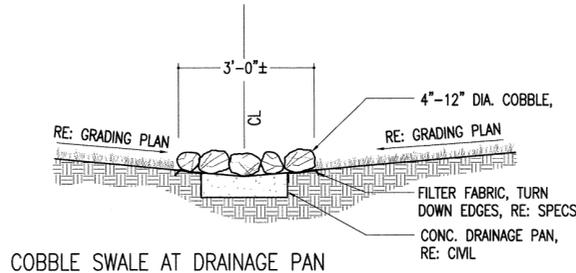
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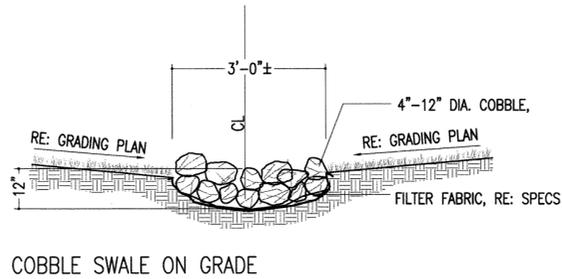


1 WOOD PRIVACY FENCE  
 N.T.S.

- NOTES:
1. FENCE TO BE MADE OF #1 REDWOOD OR CEDAR. ALL POSTS TO BE PRESSURE TREATED & SET IN CONCRETE, MIN. 24" DEPTH
  2. MEET ALL CITY STANDARDS FOR FENCE MATERIALS AND INSTALLATION.
  3. LOCATE ALL UTILITIES PRIOR TO INSTALLATION
  4. RE: SPECS FOR ALL OTHER INFORMATION.
  5. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.



2 COBBLE SWALE AT DRAINAGE PAN  
 N.T.S.



2 COBBLE DRAINAGE SWALE  
 N.T.S.

NOT FOR CONSTRUCTION

limegreen  
 DESIGN

Landscape  
 Details

SHEET:7 of 12

900 E. LOUISIANA AVE., SUITE 289, DENVER, CO 80210  
 303.733.7558

# SOLAR DECATHLON BLACKHAWK

## SITE PLAN

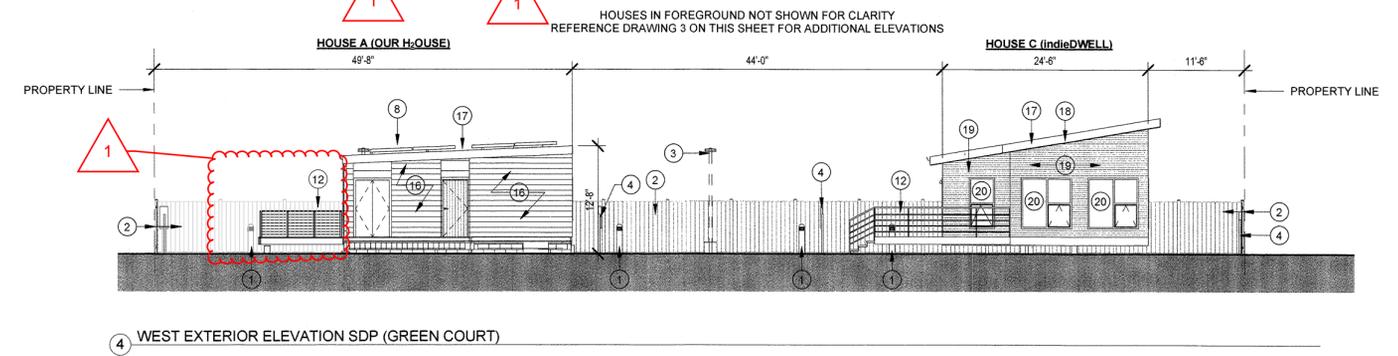
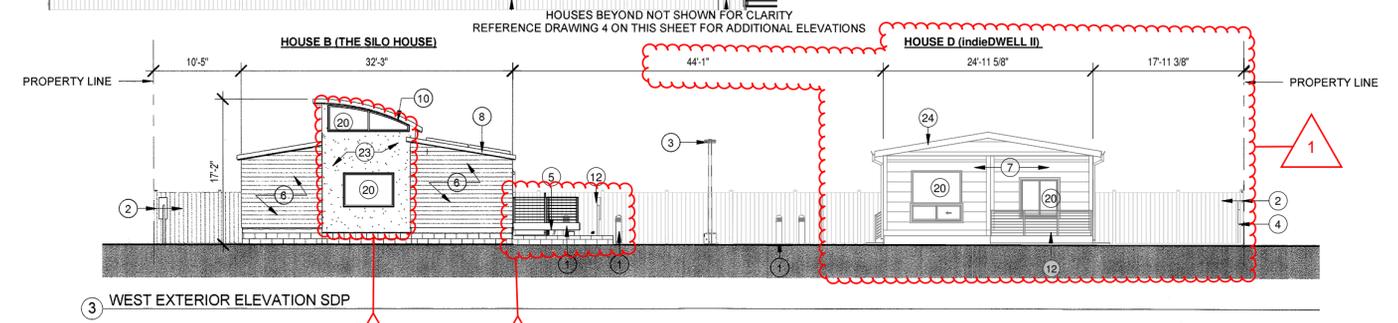
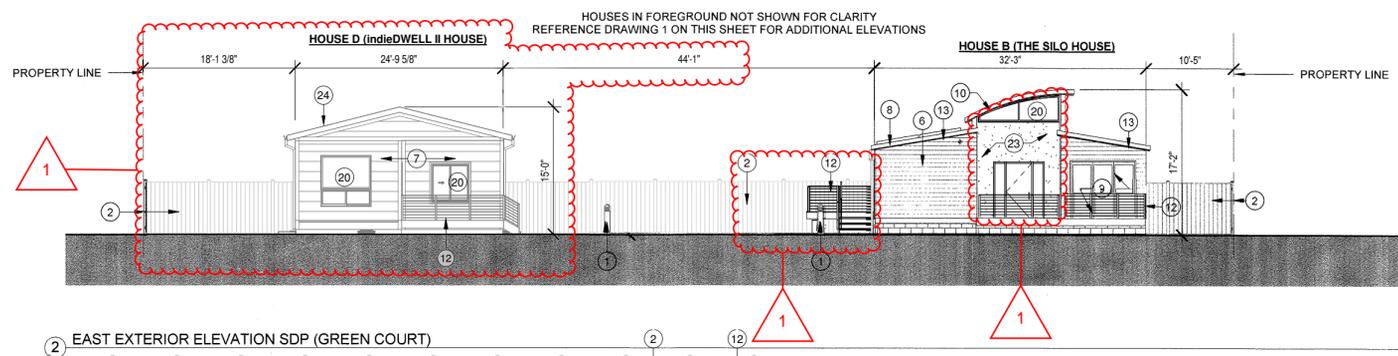
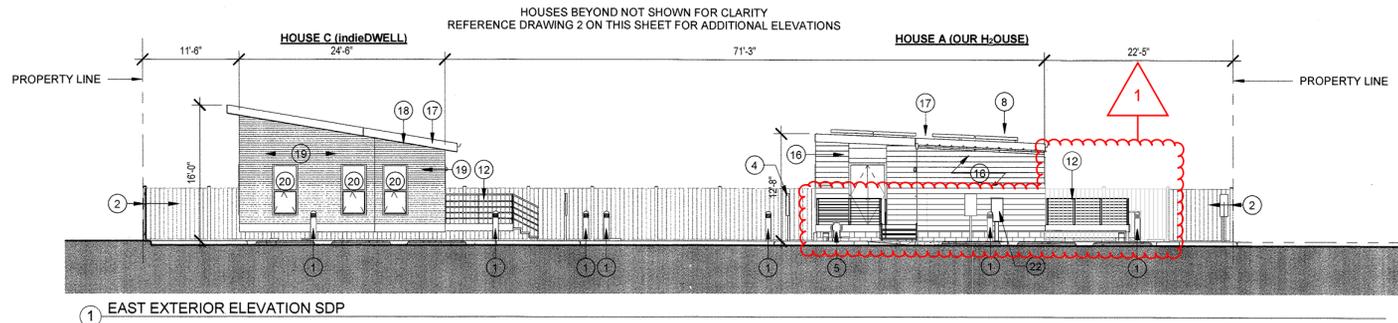
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### KEYED NOTES - AURORA SITE PLAN

- 1 BOLLARD SITE LIGHTING
- 2 6'-0" HIGH CEDAR PRIVACY FENCE
- 3 EXTERIOR SITE LIGHTING AT PARKING ON CONCRETE BASE
- 4 NO PARKING FIRE LANE SIGN
- 5 PROPOSED FIRE HYDRANT
- 6 EXTERIOR GRADE PLYWOOD AND WOOD BATTEN SIDING, PAINTED
- 7 HORIZONTAL LAP SIDING, PAINTED
- 8 SOLAR PANELS
- 9 ALUMINUM STOREFRONT GLAZING SYSTEM
- 10 STANDING SEAM METAL ROOF
- 11 ALUMINUM ROOFING SYSTEM
- 12 STEEL RAILING SYSTEM AT DECK
- 13 SHEET METAL FASCIA
- 14 NOT USED
- 15 WOOD TRELLIS SYSTEM
- 16 PREFINISHED METAL 'S' DECK
- 17 TPO ROOF MEMBRANE
- 18 PREFINISHED SHEET METAL FASCIA
- 19 PRE PAINTED FIBER CEMENT SIDING
- 20 VINYL WINDOW SYSTEM
- 21 SLIDING GLASS DOOR SYSTEM
- 22 PEDESTAL MAILBOXES
- 23 STUCCO FINISH SYSTEM
- 24 ASPHALT SHINGLE ROOF

**GENERAL NOTE:**

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2. HOUSE D NEW ELEVATIONS.
3. HOUSE B SHOWS NEW STUCCO/FENESTRATIONS.  
 A. STUCCO SYSTEM: 384 SF  
 115 SF PREVIOUS DRAWINGS + 269 SF CURRENT PHASE = 384 (234% INCREASE)  
 B. FENESTRATIONS (WINDOWS + DOORS + STOREFRONTS): 390 SF  
 637 SF PREVIOUS DRAWINGS - 390 SF CURRENT PHASE = 247 SF (38.8% DECREASE)



**BUILDING  
 ELEVATIONS**  
 SHEET 8 of 12

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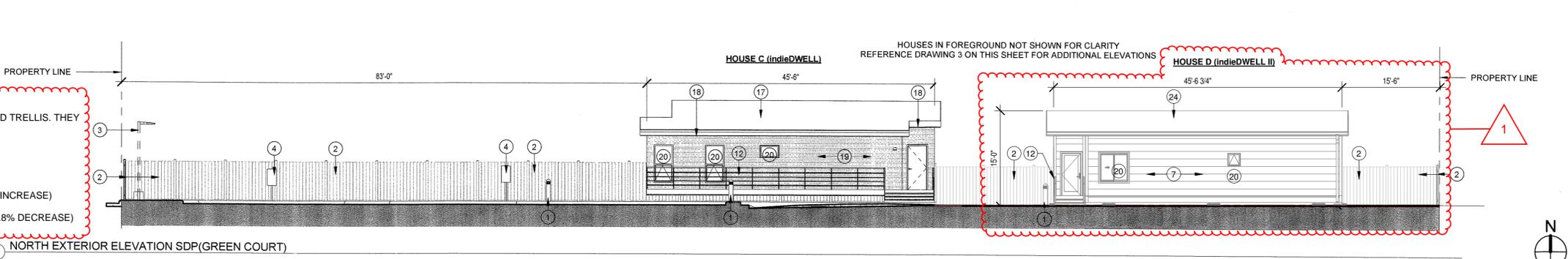
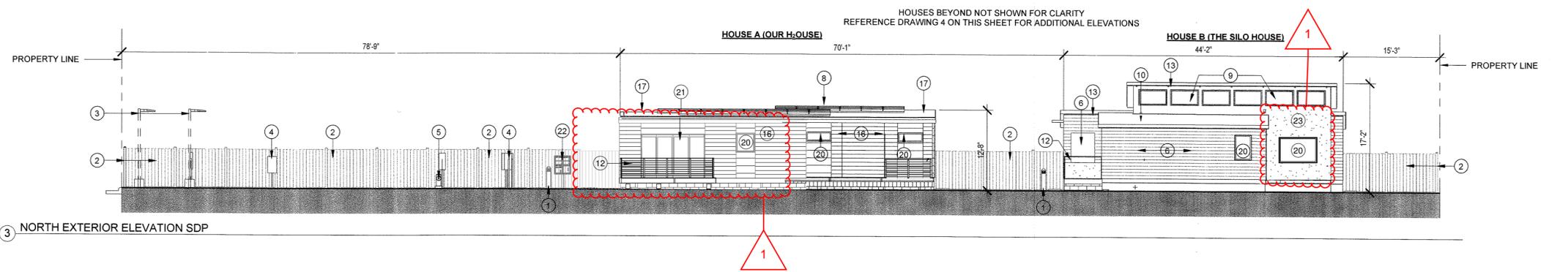
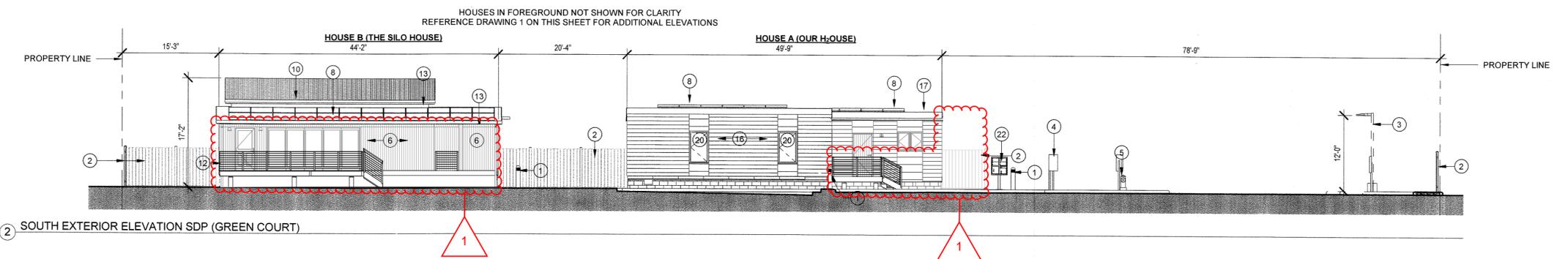
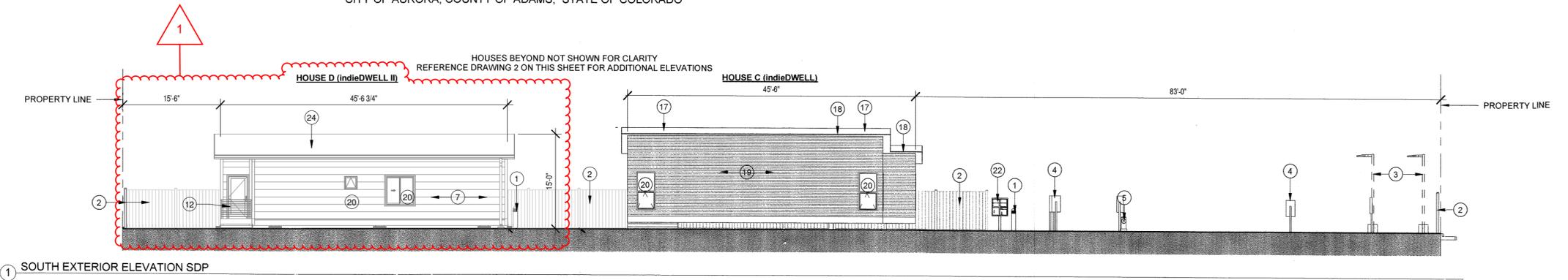
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BUILDING  
 ELEVATIONS  
 SHEET 9 of 12

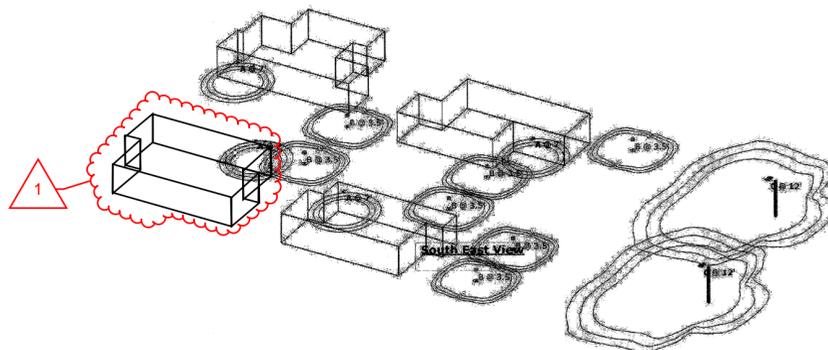


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Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage	Polar Plot
	A	4	WS-W65402-A1Z1715	WALL MOUNTED	EXRE-3051000-B-23	1	840	0.9	47	
	B	7	KBAR-LED-165-320-33K-SYM-MVOUT	KBAR WITH 4 LIGHT BODIES (16 LEM), 330MA DRIVER, 3000K COLOR TEMP, AND SYMMETRIC OPTIC	LED	1	1294	0.9	98	
	C	3	DSKO-LED-P3-300TPIH-RVOUT-TR	DSKO LED P3 300 TPIH MVOUT with HOUSING ADJUST	LED	1	812	0.52	21	



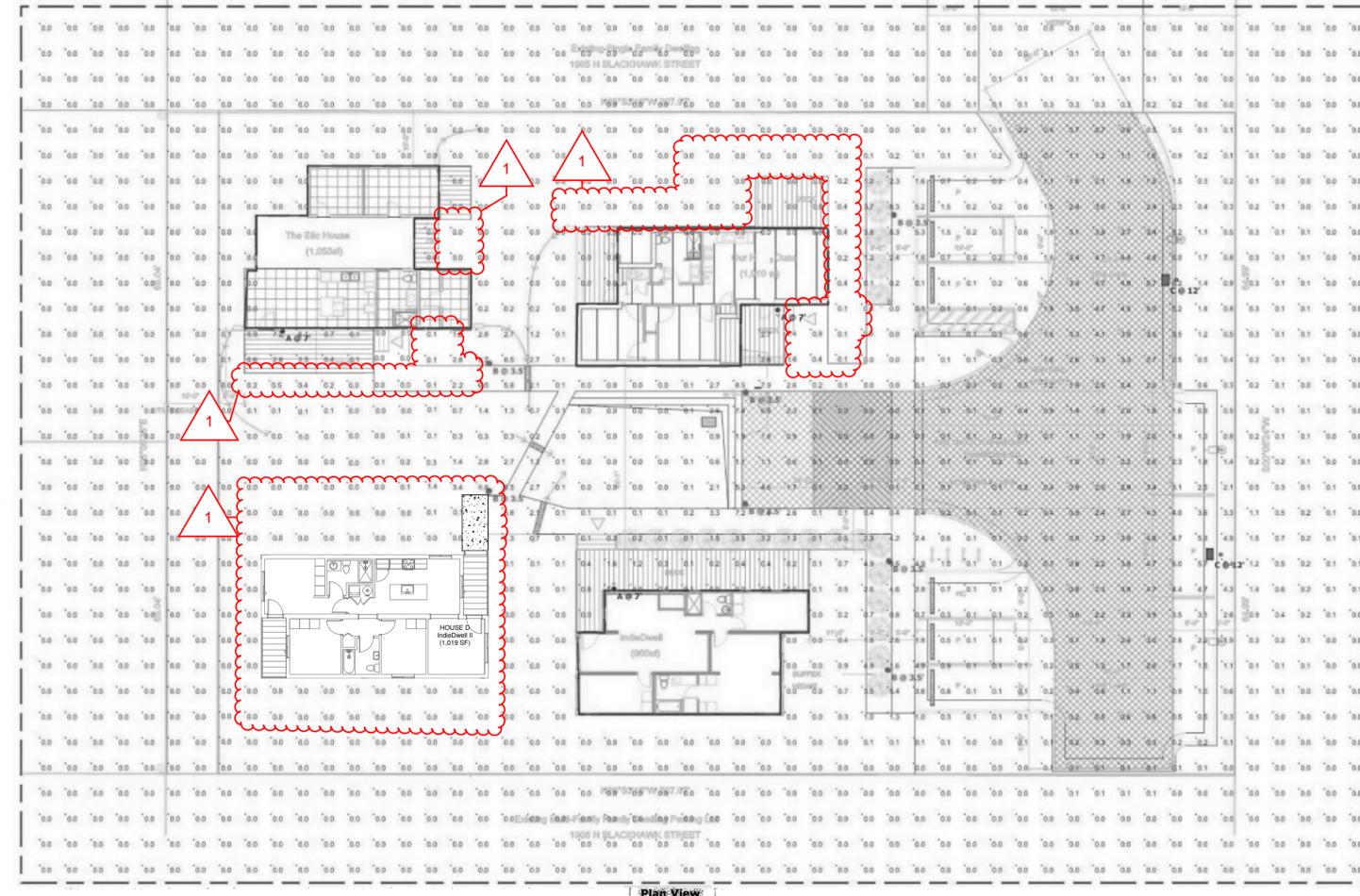
No.	Label	X	Y	Z	RM	Orientation	TH	X	Y	Z
1	A	-64.33	-35.22	7.02	7.02	0.00	0.00	-64.33	-35.22	0.00
2	A	-61.38	-11.10	7.00	7.00	380.00	0.00	-61.38	-11.10	0.00
3	A	-27.42	-38.44	7.00	7.00	0.00	0.00	-27.42	-38.44	0.00
4	A	-4.49	-15.22	7.00	7.00	380.00	0.00	-4.49	-15.22	0.00
1	B	-51.39	-4.72	3.50	3.50	0.00	0.00	-51.39	-4.72	0.00
2	B	-1.90	-22.70	3.50	3.50	0.00	0.00	-1.90	-22.70	0.00
3	B	-12.91	-0.90	3.50	3.50	0.00	0.00	-12.91	-0.90	0.00
4	B	27.06	23.86	3.50	3.50	0.00	0.00	27.06	23.86	0.00
5	B	-25.11	-24.01	3.50	3.50	0.00	0.00	-25.11	-24.01	0.00
6	B	22.00	-15.21	3.50	3.50	0.00	0.00	22.00	-15.21	0.00
7	B	-11.29	-20.22	3.50	3.50	0.00	0.00	-11.29	-20.22	0.00
1	C	103.02	21.12	12.00	12.00	270.00	0.00	103.02	21.12	0.00
2	C	90.73	-32.62	12.00	12.00	270.00	0.00	90.73	-32.62	0.00

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	0.5%	0.8 ft	0.0 ft	N/A	N/A

**Note**  
 1: file-view-file-aug2019-decathlon-site.xml

**Note**  
 Lighting calculation software is for estimating purposes only, not generating exact values.  
 These calculations are for the use and adoption by our clients and theirs' solely at their discretion.  
 This includes evaluation of the calculated lighting levels and model by the Architect, Engineer, Lighting Designer or Owner for adherence to the project's lighting specifications for levels and uniformity.  
 We make no guarantees of meeting any subjective expectations. Calculations are based on a model only. Space characteristics and electrical supply to fixtures, along with installation details, may affect fixture output and model performance. Model is based on standard reflectance values unless otherwise noted.  
 Any variance from reflectance values, obstructions, light loss factors (including both physical and electrical in nature) or dimensional data will affect the actual light levels obtained.  
 Final construction drawings and calculations are the responsibility of a licensed architect or engineer.  
 The Lighting Agency provides these calculations as a courtesy for evaluation only.

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 LOTS 19 & 20 AND ALL VACATED STREET  
 CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

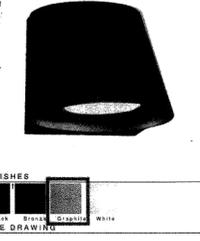
### dweLED

**Mod**  
 6" Outdoor Wall Sconce 3000K  
 Model A Size Color Temp & CW Watt Voltage LED Lumen Delivered Lumens Finish  
 WS-W65607 3000K 10.5W 120-277 VAC 165 850

**DESCRIPTION**  
 Expertly crafted from die-cast aluminum, the Mod family of smooth curved modern shape, ADA Compliant and Dark Sky for exterior residential, hospitality and commercial applications.

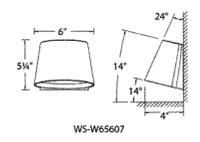
**FEATURES**

- Weather-resistant powder coat finish
- Low profile with effective path illumination
- Light engine is factory sealed for maximum protection
- Driver concealed within the fixture
- 5 year warranty



**SPECIFICATIONS**

Color Temp: 3000K  
 Input: 120-277 VAC, 50/60Hz  
 CR1: 90  
 Dimming: ELV: 100 - 10%  
 Rated Life: 70,000 Hours  
 Mounting: Can be mounted on wall in all orientations  
 Standards: ETL, cETL, IP65, Title 24 JAS-2016 Co  
 Construction: Aluminum hardware with glass diffuser



WS-W65607

walighting, (800) 526-7500, 526-2666, Quarters/Eastern Distributors, 4646 Park Drive, Port Washington, NY  
 WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous

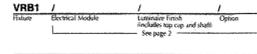
### KIM LIGHTING

### VRB1 LED Round Bollard

Single Function, Vandal-Resistant, Aluminum Shaft  
 revision 8/7/14 • kl\_vrb1led\_spec.pdf

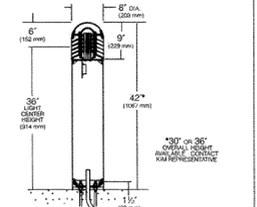
**Type:** Single Function  
**Job:** [Blank]  
**Catalog number:** [Blank]

**Approvals:** B



### Specifications

**VRB-LED Models**  
 10-20 Diodes  
**VRB1- Single Function Luminaire (Aluminum Shaft)**  
 Maximum weight: 30 lb



**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 1/4" 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 prepared 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 on an anodized interlocking 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 VI) four 5-LED boards for a total of 20-LED. Available in 3000K 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, triglycidyl isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) 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 Bay American provisions within ABMA.

**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 power components, surge protector and LiDexShield 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.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE



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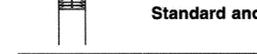
### KIM LIGHTING

### VRB1 LED Round Bollard

Single Function, Vandal-Resistant, Aluminum Shaft  
 revision 8/7/14 • kl\_vrb1led\_spec.pdf

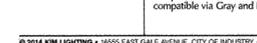
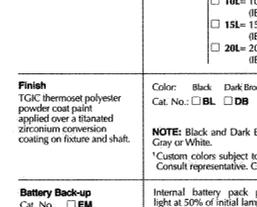
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**Catalog number:** [Blank]

**Approvals:** B



### Specifications

**VRB-LED Models**  
 10-20 Diodes  
**VRB1- Single Function Luminaire (Aluminum Shaft)**  
 Maximum weight: 30 lb



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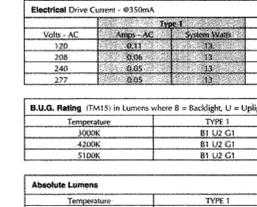
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**Catalog number:** [Blank]

**Approvals:** B



### Specifications

**VRB-LED Models**  
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 Maximum weight: 30 lb



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### 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:

Source:  
 10L= 10 LED (E5 Type I)  
 15L= 15 LED (E5 Type III)  
 20L= 20 LED (E5 Type V)

Color Temperature:  
 3K= 3000K Amber  
 4K= 4200K  
 5K= 5100K

Voltage:  
 UV Universal Voltage shall range from 120V-277V

**Finish**  
 TGIC thermoseal polyester powder coat paint applied over a titanium 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.

**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 vHUBB - Approved dimmers include Lutron Diva AXTV, Lutron Nova NMTV and NMTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.

### Lumen Data

Spectroradiometric				Projected Lumen Maintenance		
Correlated Color Temp. CCT (K)	3000K Average	4200K Average	5100K Average	mA	50,000 hrs	100,000 hrs
3000	0.06	0.09	0.09	15	0.71	0.5
240	0.05	0.08	0.08	15	0.71	0.5
227	0.05	0.08	0.07	15	0.69	0.5

Electrical Drive Current - @150mA			
Volts - AC	Amps - AC	Type 1 System Watts	Type 3 System Watts
120	0.11	13	19
240	0.05	13	0.08
277	0.05	13	0.07

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	567
4200K	491	703	1005
5100K	515	739	1087

LED performance and lumen output continues to improve at rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's 45 file library. For custom options and color temperature customizations, contact factory.

### D-Series Size 0 LED Area Luminaire

**Specifications**

EPA: 0.95 ft<sup>2</sup>  
 Length: 26"  
 Width: 13"  
 Height: 7"  
 Weight (max): 16 lbs

**Introduction**  
 The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

### Ordering Information

Series	LEDs	Color Temperature	Output	Mounting	Accessories
DSX0 LED	Fixed optics	30K 3000K	T15 Spot Short	T55 Spot Short	RM001™
		40K 4000K	T15 Spot Medium	T55 Spot Medium	281™
		50K 5000K	T15 Spot Wide	T55 Spot Wide	281™
		50K 5000K	T15 Spot Broad	B.C. Backlight option*	281™
Fixed optics	RM001™	T15 Spot Medium	LED Light Center Cut-off	281™	
		T15 Spot Wide	LED Light Center Cut-off	281™	
		T15 Spot Broad	LED Light Center Cut-off	281™	
		T15 Spot Very Short	LED Light Center Cut-off	281™	

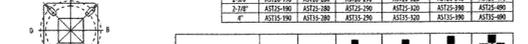
### Ordering Information

**Accessories**  
 RM001™: Round bollard mounting adapter  
 RM002™: Square bollard mounting adapter  
 RM003™: Round bollard mounting adapter with external glare shield  
 RM004™: Round bollard mounting adapter with external glare shield and external glare shield  
 RM005™: Round bollard mounting adapter with external glare shield and external glare shield and external glare shield  
 RM006™: Round bollard mounting adapter with external glare shield and external glare shield and external glare shield  
 RM007™: Round bollard mounting adapter with external glare shield and external glare shield and external glare shield  
 RM008™: Round bollard mounting adapter with external glare shield and external glare shield and external glare shield  
 RM009™: Round bollard mounting adapter with external glare shield and external glare shield and external glare shield  
 RM010™: Round bollard mounting adapter with external glare shield and external glare shield and external glare shield

### EGS - External Glare Shield



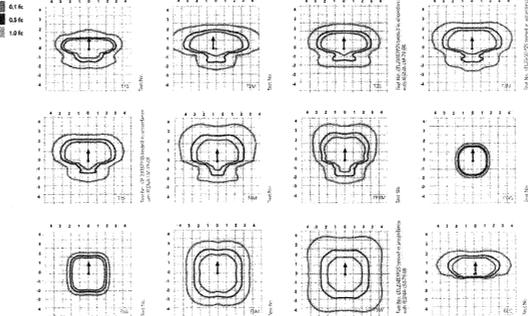
### Drilling



### Tenon Mounting Splitter

Mounting System	Splitter	10" Dia	12" Dia	14" Dia	16" Dia	18" Dia	20" Dia
RM001™	RM001™	RM001™	RM001™	RM001™	RM001™	RM001™	RM001™
RM002™	RM002™	RM002™	RM002™	RM002™	RM002™	RM002™	RM002™
RM003™	RM003™	RM003™	RM003™	RM003™	RM003™	RM003™	RM003™
RM004™	RM004™	RM004™	RM004™	RM004™	RM004™	RM004™	RM004™
RM005™	RM005™	RM005™	RM005™	RM005™	RM005™	RM005™	RM005™
RM006™	RM006™	RM006™	RM006™	RM006™	RM006™	RM006™	RM006™
RM007™	RM007™	RM007™	RM007™	RM007™	RM007™	RM007™	RM007™
RM008™	RM008™	RM008™	RM008™	RM008™	RM008™	RM008™	RM008™
RM009™	RM009™	RM009™	RM009™	RM009™	RM009™	RM009™	RM009™
RM010™	RM010™	RM010™	RM010™	RM010™	RM010™	RM010™	RM010™

### Photometric Diagrams



### Performance Data

Lumen Ambient Temperature (LAT) Multipliers			
Temperature	Multiplier	Temperature	Multiplier
25°C	1.00	35°C	0.97
30°C	0.99	40°C	0.94
35°C	0.97	45°C	0.89
40°C	0.94	50°C	0.83
45°C	0.89	55°C	0.77
50°C	0.83	60°C	0.70

### Projected LED Lumen Maintenance

Temperature	Type 1	Type 3	Type 5
3000K	0.71	0.71	0.71
4200K	0.71	0.71	0.71
5100K	0.71	0.71	0.71

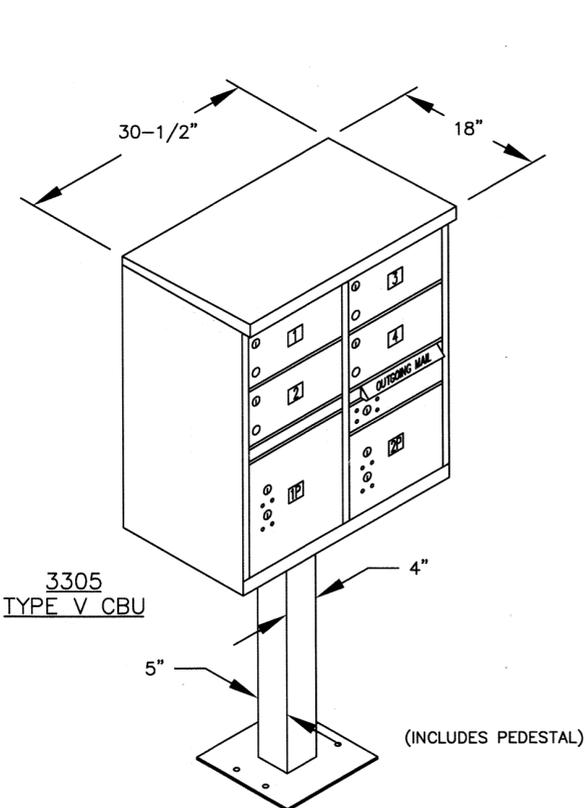
### Controls Options

Option	Description	Requirements	Priority notices	Notes
IGS	Fixed adjustable angle down required	Allow for louver to be manually opened, effectively turning the light output.	IGS driver	Cannot be used with other controls options that need the 0-10V input.
IS	Dimmer rated independently for 1500W luminaire operation	The luminaire is rated to three separate control options. Refer to the 3000K operation effective alternative.	Independently wired driver	Requires two separately matched dimmers. Consider angle of louver as maximum effective alternative.
IBS or IED	Test fully qualified integrator	Compatible with standard control systems for each of three operation, or a separate control system for 0-10V dimming system.	Two hot channels such as IBS. Drive advanced control such as IBS.	Two IBS channels required. Refer to IBS channel wiring diagram.
IR or IRB	Minimum control with integral photo eye	Minimum control with integral photo eye.	Single Channel, IBS	Not available with IBS or IED. Refer to IBS channel wiring diagram.
IGS or IBS	Single hot channel luminaire for remote control, photo eye and wireless control	Wireless and wireless light occupancy is required.	Single hot channel	Single hot channel luminaire for remote control, photo eye and wireless control. Refer to IBS channel wiring diagram.

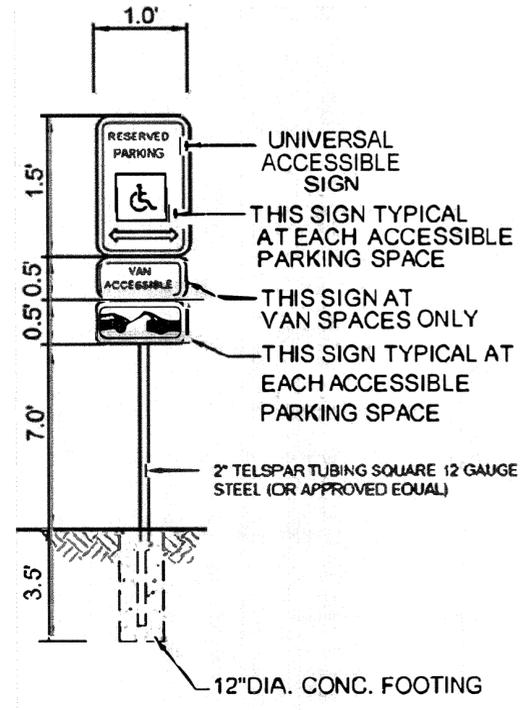
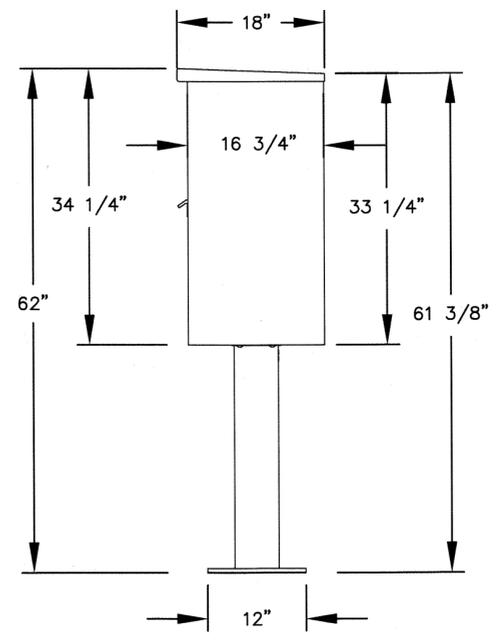
# SOLAR DECATHLON BLACKHAWK

## SITE PLAN

A PORTION OF TOLLGATE VALLEY GARDENS,  
 LOCATED IN THE SOUTHWEST QUARTER OF SECTION 31,  
 TOWNSHIP 3 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN  
 LOTS 19 & 20 AND ALL VACATED STREET  
 CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

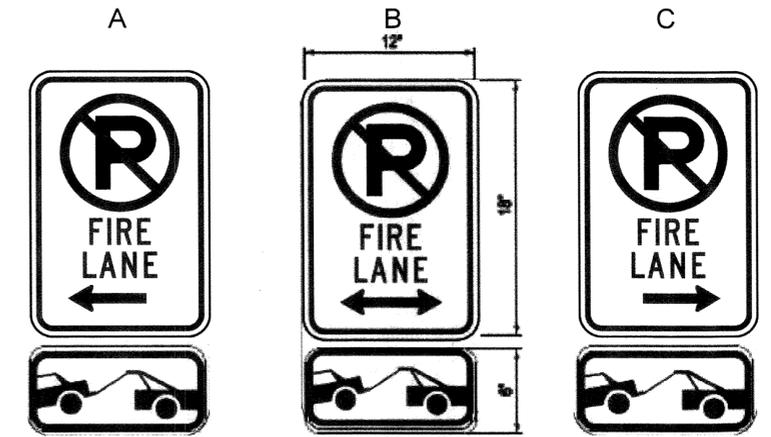


PEDESTAL MAILBOXES (4 C SIZE BOXES WITH 2 PARCEL LOCKERS - USPS ACCESS)



ACCESSIBLE SIGN

SIGN SHALL BE CENTERED ON THE PARKING SPACE



1. Signs shall be located at the right side of the fire lane entrance and at the end of the fire lane. The intermediate signs shall have double headed arrows pointing in both directions.
2. Typically, the maximum spacing of the fire lane signs is established at 100' on center with signs being placed on both sides of the fire lane easement (50' on center alternating sides). Where excessive curvature of the fire lane exists, the spacing of the fire lane signage will be increased as needed.
3. The signs shall be set at an angle of not less than 30 degrees and not more than 45 degrees with the curb or line of traffic flow.
4. Fire lane signs should be installed 2' behind curb or sidewalk.
5. The clearance to the bottom of the sign shall be 7 feet. There shall be not other signs attached to the sign or the sign post.
6. Placement of these fire lane signs cannot encroach into the 29' inside turning radius of the fire lane easement, obstruct any fire hydrant or fire department connection or encroach into the accessible route of the sidewalk area.