

257 Chesterfield Business Parkway St. Louis, MO 63005 (636) 530-9100 FAX (636) 530-9130 E-Mail: general@stockassoc.com

**TO:** City of Maryland Heights

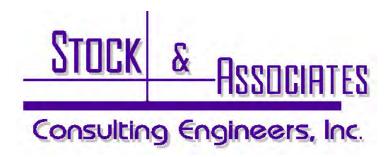
11191 Dorsett Road Maryland Heights, MO 63043-2597

LETTER	OF TR	<b>ANSN</b>	MITTAI.
	<b>\ /            </b>		

DATE:	JOB NO.	
05/19/23	216-5759	
ATTENTION:		
Ms. Erin LoRusso, AICP-City Planner		
RE:		
Maryland Park Industrial Development		
14009 Creve Coeur Airport Road		
City of Maryland Heights, MO		

WI	E ARE SE	ENDING YO	U: ⊠ Attached	□ Under Separ	ate cover via	Hand Delive	ery the following items:		
	☐ Shop	Drawings	☐ Pri	nts 🖂	Plans	Samples	☐ Specifications		
	□ Сору	of Letter	□ Ch	ange Order □					
	Copies	Date	No.		Desc	cription			
	1	05/19/23	1 pg.	Stormwater Nari					
			C1.0-C4.0	Preliminary Deve	±				
	1	05/19/23	1 of 1	<b>Conceptual Deve</b>					
	1	05/19/23	L1-L6	Landscape Plans					
	1	05/19/23	A.1, A.2, A.3	Architectural Ele	vations				
ĺ	1	05/19/23	A.4	Line of Sight					
l									
l									
TH	ESE ARI	E TRANSMI	TTED as checked	l below:					
	☐ For A	Approval	☐ Approved	as Submitted	☐ Resubmit	copi	es for approval		
☐ For your use ☐ Approved		as noted	□ Submit _	copi	es for distribution				
☐ As requested ☐ Returned f		for corrections	☐ Return _	corr	rected prints				
	☐ For 1	review and co	omment [	]					
☐ FOR BIDS DUE		20	☐ PRINTS RI	ETURNED A	AFTER LOAN TO US				
	REMARKS:								
					Sincerely,				
SIGNED: Ryan Schriber									
					Ryan Schriber	r, P.E. – $Asso$	ciate		
	COPY T	O:							
		George	e M. Stock, P.E.,	President			George M. Stock, P.E., President		

George M. Stock, P.E., President
Tim Stock, Executive Vice-President
Mark Venturella, Altus Properties (<a href="mailto:mventure@altusproperties.com">mventure@altusproperties.com</a>)
Scott Vogelsang, Arco (<a href="mailto:svogelsang@arco1.com">svogelsang@arco1.com</a>)
Dylan Ream, Arco (<a href="mailto:dream@arco1.com">dream@arco1.com</a>)



May 19, 2023

Attn: Ms. Erin LoRusso, AICP – City Planner

11911 Dorsett Road

City of Maryland Heights, MO

Re: Stormwater Management Narrative

Maryland Park Multi-Family / Commercial Retail Development, Maryland Heights, MO

Stock Project No. 216-5759

Dear Ms. LoRusso,

This narrative was prepared by Stock & Associates Consulting Engineers, Inc. for the proposed Industrial development known as the Maryland Park Industrial Development located at the northwest quadrant of the Maryland Heights Expressway and Creve Coeur Airport Road. The Developer intends to construct a 30.00 acre development consisting of approximately three (3) buildings totaling 358,216 sf.

This project site is governed by the "Stormwater Management Facilities Report Interconnected Lake System w/ Missouri River Pump Station Creve Coeur Airport Sub-Area" Maryland Heights, MSD P-27770 dated May 17, 2010. The site is located within a portion of Zone 1E (43.6 Ac) which requires 680,985 CF of storage volume. The 30.00 Ac. Site requires 468,567 CF of storage volume. The proposed development will utilize wet retention lakes, if allowed by the Airport & FAA, to provide the necessary storage volume to satisfy stormwater detention requirements. Water Quality treatment will be provided through Best Management Practices (BMPs) in the form of Bio-Retention basins. Detention and Water Quality calculations will be in accordance with Metropolitan St. Louis Sewer District and the Howard Bend Levee District regulations.

The proposed wet lakes will be situated around the perimeter of the development providing additional "buffer" from the adjacent properties. The Bio-Retention basins are proposed throughout the site and will be planted with a variety of plant species to enhance the aesthetics of the site as well as integrate with the other site landscaping materials.

FEMA has updated their Flood Insurance Rate Maps on February 5, 2015. This update along with current internal stormwater modelling being performed by the Howard Bend Levee District may impact the previous drainage report from 2010.

Sincerely,

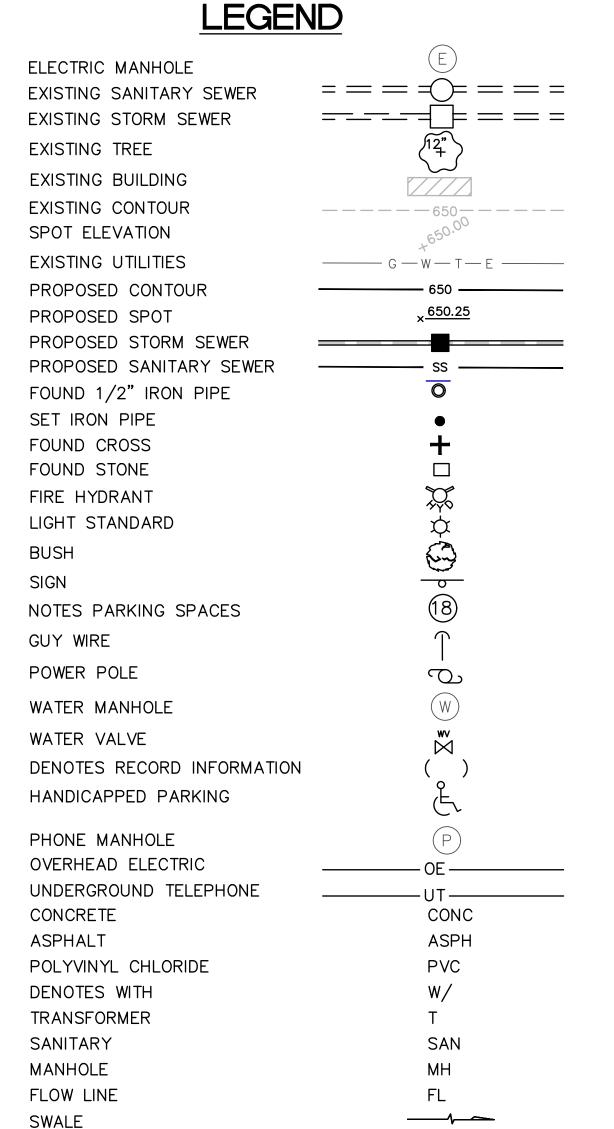
George M. Stock, P.E. - President

Cc: Tim Stock, Executive Vice-President Ryan Schriber, P.E. – Senior Associate Mr. Mark Venturella, ALTUS

# MARYLAND PARK INDUSTRIAL DEVELOPMENT

A TRACT OF LAND BEING LOT B OF THE "BD EXPRESSWAY" SUBDIVISION AS RECORDED IN P.B. 353 PGS. 824-825 OF PART OF U.S. SURVEY 3094 TOWNSHIP 46 NORTH RANGES 4 AND 5 EAST CITY OF MARYLAND HEIGHTS, ST. LOUIS COUNTY, MISSOURI

## CONCEPT PLAN / PRELIMINARY DEVELOPMENT PLAN



#### **ABBREVIATIONS**

—— SF —— SF ——

SILT FENCE

	<u>/ (DD) (E / )/ (110</u>		
A.T.G. C.O. DB. DND DS E FL FT FND. G GL M.H. N/F PB. PG. PUMI P.V.C. R.C.P. RD S.B. SQ. T	- ADJUST TO GRADE - CLEANOUT - DEED BOOK - DO NOT DISTURB - DOWNSPOUT - ELECTRIC - FLOWLINE - FEET - FOUND / FOUNDATION - GAS - GUTTER LINE - MAILBOX - MANHOLE - NOW OR FORMERLY - PLAT BOOK - PAGE - PRIVATE UNDER MSD INSPECTION - POLYVINYL CHLORIDE PIPE - REINFORCED CONCRETE PIPE - ROOF DRAIN - SIGNAL BOX - SQUARE - TELEPHONE CABLE	V.C.P. W Y.D. (86° X GM X O O M \$\phi\$ TS YL \$\phi\$ \phi\$ \	<ul> <li>VETRIFIED CLAY PIPE</li> <li>WATER</li> <li>YARD DRAIN</li> <li>RIGHT-OF-WAY WIDTH</li> <li>GAS VALVE</li> <li>GAS METER</li> <li>WATER VALVE</li> <li>WATER FAUCET</li> <li>CLEAN OUT</li> <li>ELECTRIC BOX</li> <li>LIGHT STANDARD</li> <li>TRAFFIC SIGNAL</li> <li>ELECTRIC YARD LIGHT</li> <li>TEST HOLE</li> <li>FIRE HYDRANT</li> <li>SIGN</li> <li>ACCESSIBLE SPACE</li> <li>TEST PIT LOCATION</li> </ul>
	TELET HOME OADLE		

TO BE REMOVED

USE IN PLACE

PREPARED FOR:

ST. LOUIS, MO. 63119

ARCO CONSTRUCTION COMPANY 900 NORTH ROCK HILL ROAD

ATTN: MR. SCOTT VOGESANG, P.E. DIRECTOR/PRINCIPAL

T.B.R.&R. - TO BE REMOVED AND REPLACED

T.B.R.&R.B.O. - TO BE REMOVED AND REPLACED BY OTHERS

#### GENERAL NOTES:

MUNICIPAL CODE.

CONSULTING ENGINEERS, INC.

- 1. BOUNDARY & TOPOGRAPHIC SURVEY INFORMATION TAKEN FROM ALTA/NSPS SURVEY AS PERFORMED BY STOCK & ASSOCIATES.
- SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED.

  3. NO UTILITY MEETINGS HAVE BEEN PERFORMED TO VERIFY EXISTING OR PROPOSED UTILITY FACILITIES AS WELL AS CONFIRMATION OF DESIGN REQUIREMENTS FOR THIS SITE. ALL PROPOSED UTILITY CONNECTIONS AND SITE DESIGN ELEMENTS ARE SUBJECT TO REVIEW & APPROVAL BY EACH RESPECTIVE AGENCY HAVING JURISDICTION OVER THIS

2. ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION

- 4. NO GRADE SHALL EXCEED 3:1 SLOPE. UNLESS OTHERWISE NOTED AND ACTED UPON BY THE CITY OF MARYLAND
- PROJECT SIGNAGE PER THE CITY OF MARYLAND HEIGHTS CODE, TO BE REVIEWED UNDER SEPARATE SUBMITTAL.
   ALL PROPOSED STREET LIGHTING SHALL BE IN ACCORDANCE WITH THE CITY OF MARYLAND HEIGHTS REQUIREMENTS.

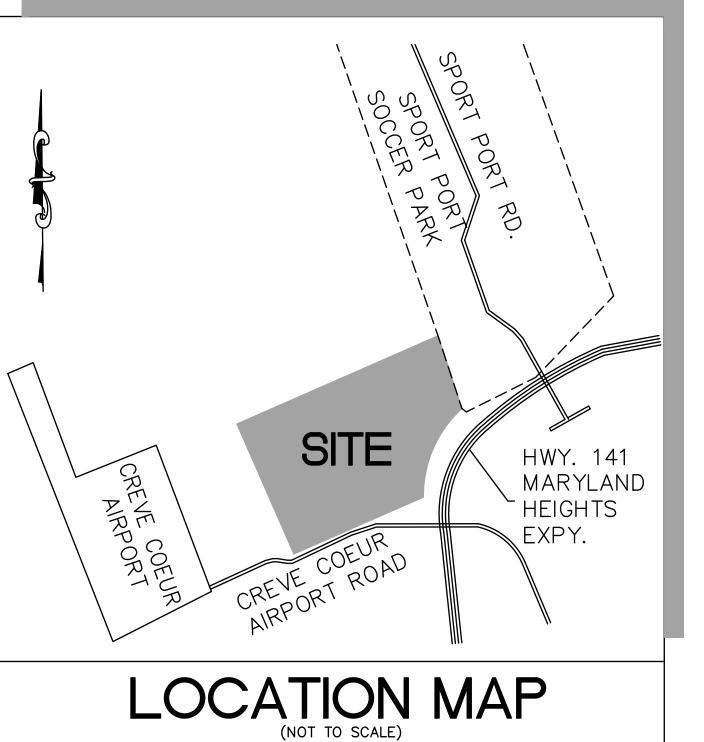
7. STORMWATER POLLUTION PREVENTION MEASURES TO BE IN ACCORDANCE WITH CITY OF MARYLAND HEIGHTS

- 8. ALL EXISTING AND PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND AND LOCATED WITHIN EASEMENTS.
  9. STORMWATER MANAGEMENT SHALL BE IN ACCORDANCE WITH CITY OF MARYLAND HEIGHTS AND MSD REQUIREMENTS.
  10. ALL CONSTRUCTION MATERIALS, MEANS AND METHODS SHALL BE IN ACCORDANCE WITH CITY OF MARYLAND
- 11. IMPROVEMENTS SHOWN SUBJECT TO CHANGE PENDING FINAL ENGINEERING AND APPROVALS OF GOVERNING AGENCIES AND UTILITY COMPANIES.
- 12. THE LOCATION OF STORM AND SANITARY SEWER IMPROVEMENTS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AND SHALL BE INDICATED ON THE IMPROVEMENT PLANS.

### PROPERTY DESCRIPTION LOT B OF THE "BD EXPRESSWAY" SUBDIVISION PB. 353, PGS 824-825

A TRACT OF LAND BEING PART OF LOT 4 OF A SUBDIVISION OF PART OF U.S. SURVEY 3094 TOWNSHIP 46 NORTH, RANGES 4 AND 5 EAST OF THE 5TH PRINCIPAL MERIDIAN MADE BY E.B. SAYERS FILED WITH THE REPORT OF SALE MADE IN THE MATTER OF JOSEPH BITTEL IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF MISSOURI ON MAY 18, 1871; CAUSE NO. 325, SAID SUBDIVISION BEING MORE COMMONLY CALLED CREVE COEUR TRACT IN U.S. SURVEY 3094, AS CONVEYED TO DONALD R. DAUSTER, TRUSTEE BY INSTRUMENT RECORDED IN DEED BOOK 11151, PAGE 2398 OF THE ST. LOUIS COUNTY RECORDER OF DEEDS OFFICE BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF ABOVE SAID LOT 4. SAID POINT BEING IN THE CENTER OF A 30 FEET WIDE ROAD, SAID POINT IS ALSO THE NORTHWEST CORNER OF LOT 3 OF ABOVE SAID CREVE COEUR TRACT; THENCE ALONG THE COMMON LINE BETWEEN SAID LOT 4 AND LOT 3 OF ABOVE SAID SUBDIVISION NORTH 67 DEGREES 41 MINUTES 06 SECONDS EAST 523.44 FEET TO THE POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT; THENCE DEPARTING LAST SAID COMMON LINE NORTH 22 DEGREES 05 MINUTES 23 SECONDS WEST 1155.87 FEET TO A POINT ON THE NORTHERLY LINE OF SAI LOT 4; THENCE ALONG LAST SAID NORTHERLY LINE NORTH 67 DEGREES 51 MINUTES 12 SECONDS EAST 1325.21 FEET TO THE POINT OF INTERSECTION WITH THE WESTERLY LINE OF TRACT OF LAND CONVEYED TO THE CITY OF MARYLAND HEIGHTS ACCORDING TO INSTRUMENTS RECORDED IN DEED BOOK 12906, PAGE 21, DEED BOOK 14527, PAGE 1844, AND SURVEYOR'S AFFIDAVIT IN DEED BOOK 14689, PAGE 1; THENCE ALONG THE WESTERLY AND NORTHERLY LINES OF LAST SAID TRACT THE FOLLOWING COURSES AND DISTANCES: SOUTH 22 DEGREES 07 MINUTES 00 SECONDS EAST 476.10 FEET; SOUTH 67 DEGREES 53 MINUTES OO SECONDS WEST 20.00 FEET TO A POINT ON A NON-TANGENT CURVE TO THE RIGHT, FOR WHICH THE RADIUS POINT BEARS SOUTH 67 DEGREES 53 MINUTES 00 SECONDS WEST 200.00 FEET; THENCE ALONG LAST SAID CURVE WITH A CHORD WHICH BEARS SOUTH 01 DEGREES 09 MINUTES 06 SECONDS WEST 158.03 FEET AN ARC LENGTH OF 162.46 FEET TO A POINT OF TANGENCY; SOUTH 24 DEGREES 25 MINUTES 32 SECONDS WEST 600.67 FEET TO A POINT OF CURVATURE TO THE RIGHT FOR WHICH THE RADIUS POINT BEARS NORTH 65 DEGREES 34 MINUTES 28 SECONDS WEST 200.00 FEET; THENCE ALONG LAST SAID CURVE WITH A CHORD THAT BEARS SOUTH 46 DEGREES 03 MINUTES 19 SECONDS WEST 147.44 FEET AN ARC LENGTH OF 151.00 FEET: SOUTH 22 DEGREES 18 MINUTES 54 SECONDS EAST 20.00 FEET; SOUTH 67 DEGREES 41 MINUTES 06 SECONDS WEST 450.00 FEET; SOUTH 2 DEGREES 18 MINUTES 54 SECONDS EAST 45.00 FEET TO A POINT THE ABOVE SAID COMMON LINE BETWEEN LOT 4 AND LOT 3; THENCE ALONG LAST SAID COMMON LINE SOUTH 67 DEGREES 41 MINUTES 06 SECONDS WEST 220.66 FEET TO THE POINT OF BEGINNING AND CONTAINING 1,306,800 SQUARE FEET OR 30.000 ACRES MORE OR LESS ACCORDING TO CALCULATIONS PERFORMED BY STOCK & ASSOCIATES



#### SHEET LEGEND

C1.0	TITLE SHEET
C2.0	EXISTING CONDITIONS
C3.0	PRELIMINARY SITE & GRADING PLAN
C3.1	PRELIMINARY SITE SECTIONS
C4.0	OVERALL UTILITY PLAN
1 of 1	CONCEPT PLAN

#### PERTINENT DATA

SUBDIVISION	= BD EXPRESSWAY
LOT B	= 30.000 ACRES
OWNER	= N/F CORNERSTONE LAND CO L.L.C.
CARE OF	= ALTUS PROPERTIES L.L.C.
SITE ADDRESS	= 14009 CREVE COEUR AIRPORT ROAD
LOCATOR NO.	= 13Q520063 PB. 353 PGS. 824-825

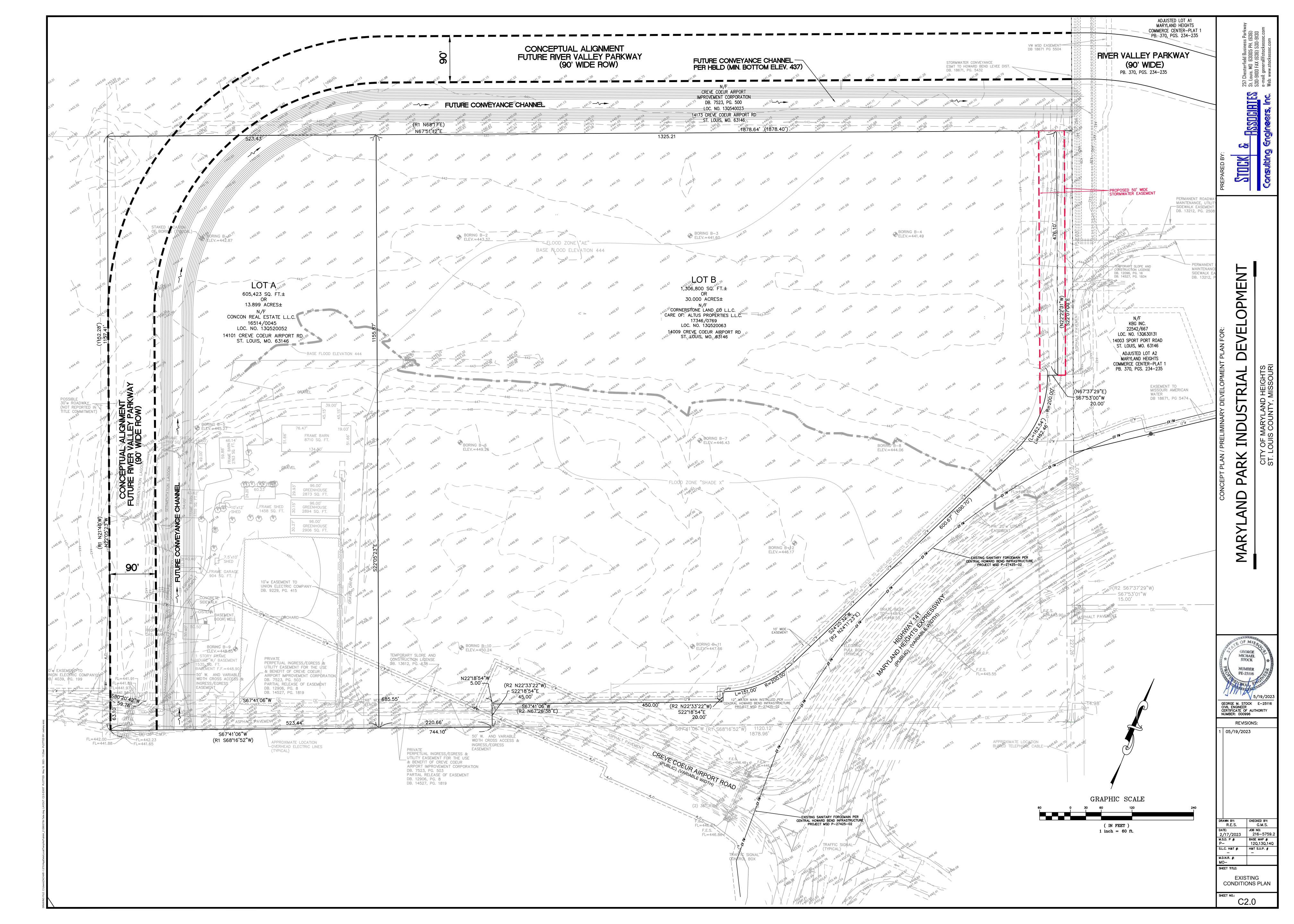
UTILITY PROVIDERS:
ELECTRIC: = AMEREN
GAS: = SPIRE
PHONE: = AT&T
CABLE: = CHARTER
SEWER: = MSD
WATER: = MAWC

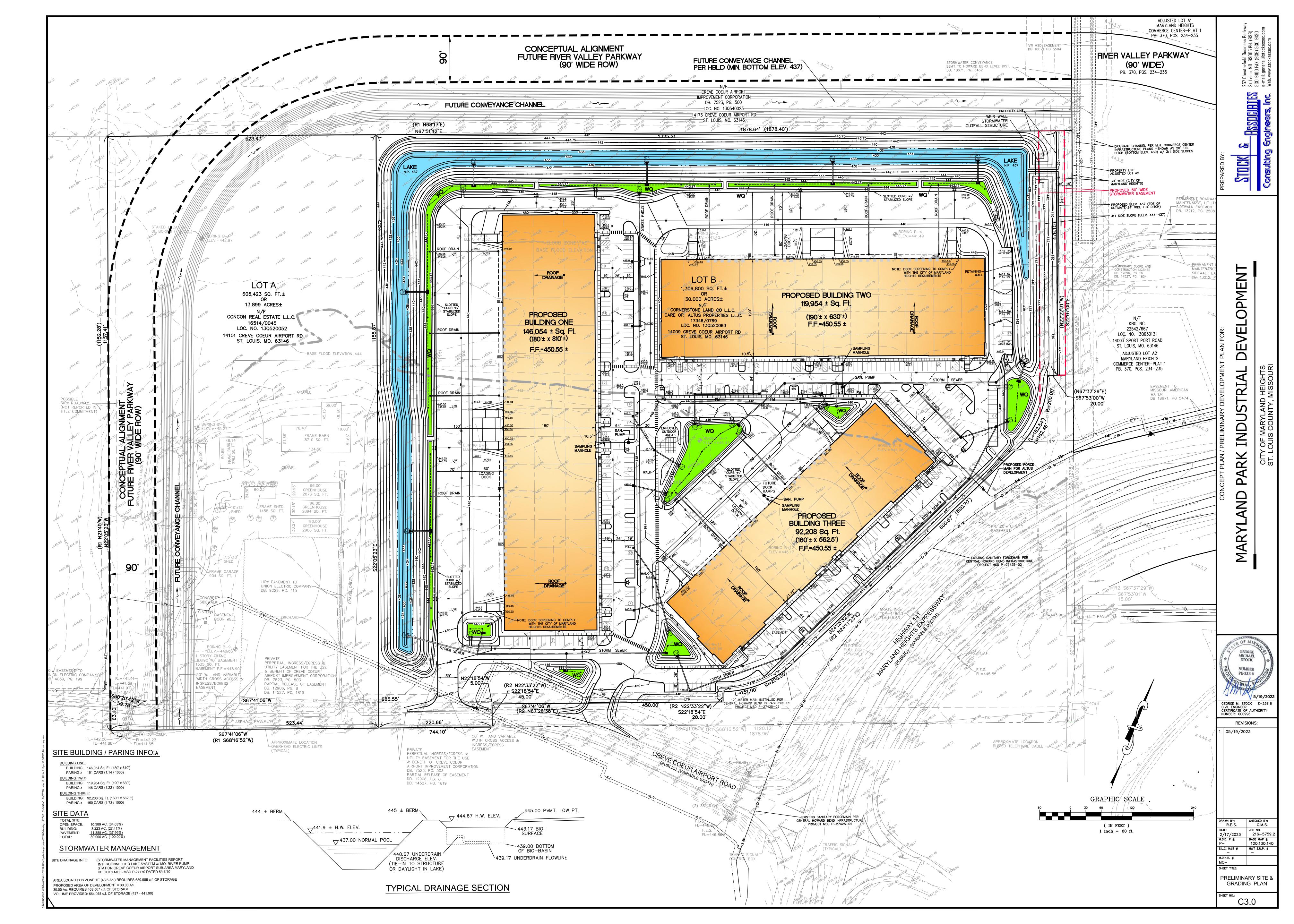


#### FEMA FLOOD NOTE:

SUBJECT PROPERTY LIES WITHIN FLOOD ZONES X SHADED (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD), AND AE (BASE FLOOD ELEVATION DETERMINED) ACCORDING TO THE NATIONAL FLOOD INSURANCE RATE MAP NUMBER 29189C0160K WITH AN EFFECTIVE DATE OF 2-4-2015

TITLE SHEET





SITE SECTION B-B

HORIZ. SCALE: 1"=100'
VERT. SCALE: 1"=10'

EXISTING GRADE

BOTTOM EL.=433

PROPOSED GRADE

VELOPMENT INDUSTRI PARK MARYLAND

GEORGIE MICHAIEL STOCK NUMBER PE-25116

GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 000996

**REVISIONS:** 1 05/19/2023

DRAWN BY:
R.E.S.

DATE:
2/17/2023

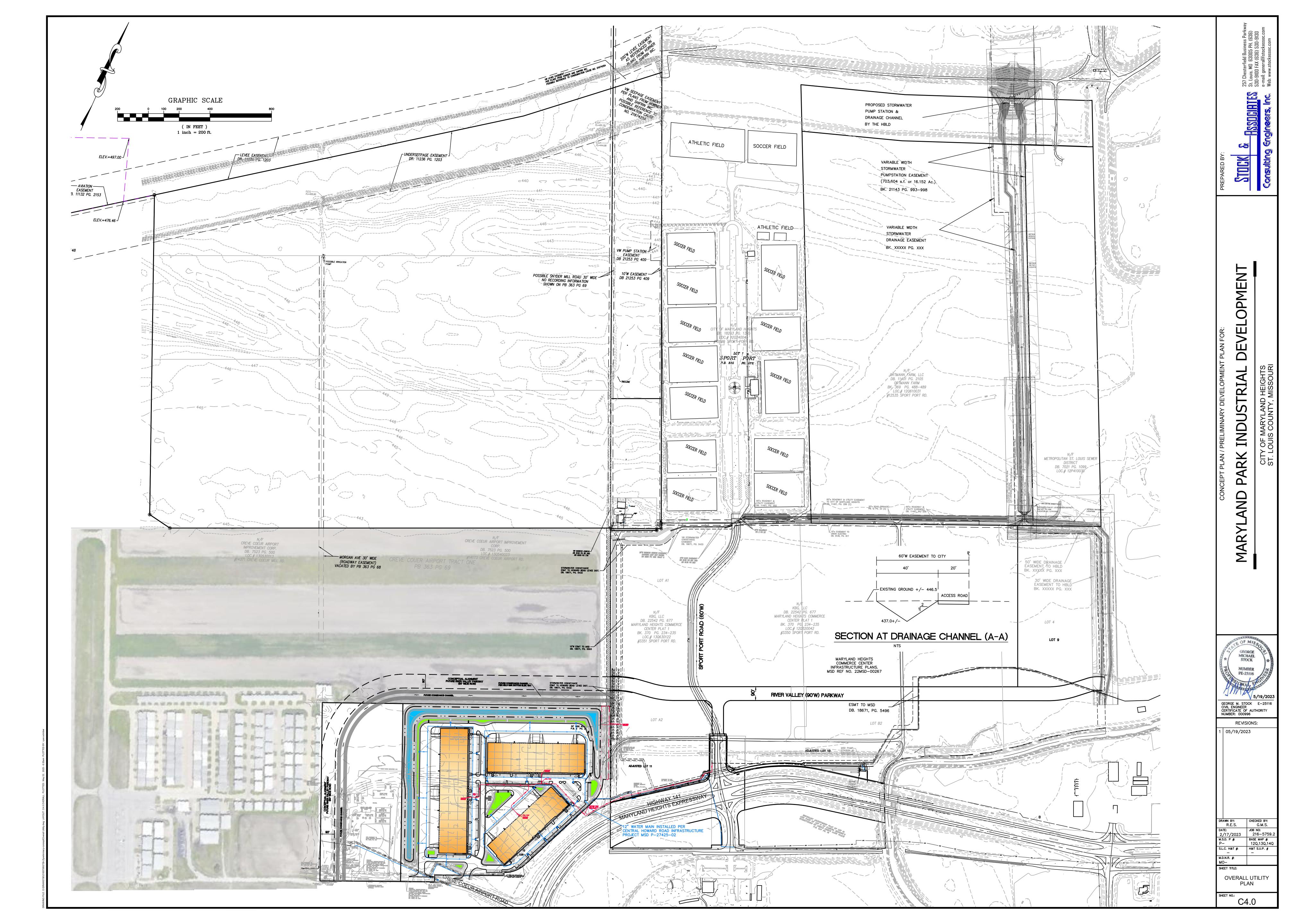
M.S.D. P #:
PBASE MAP #:
12Q,13Q,14Q

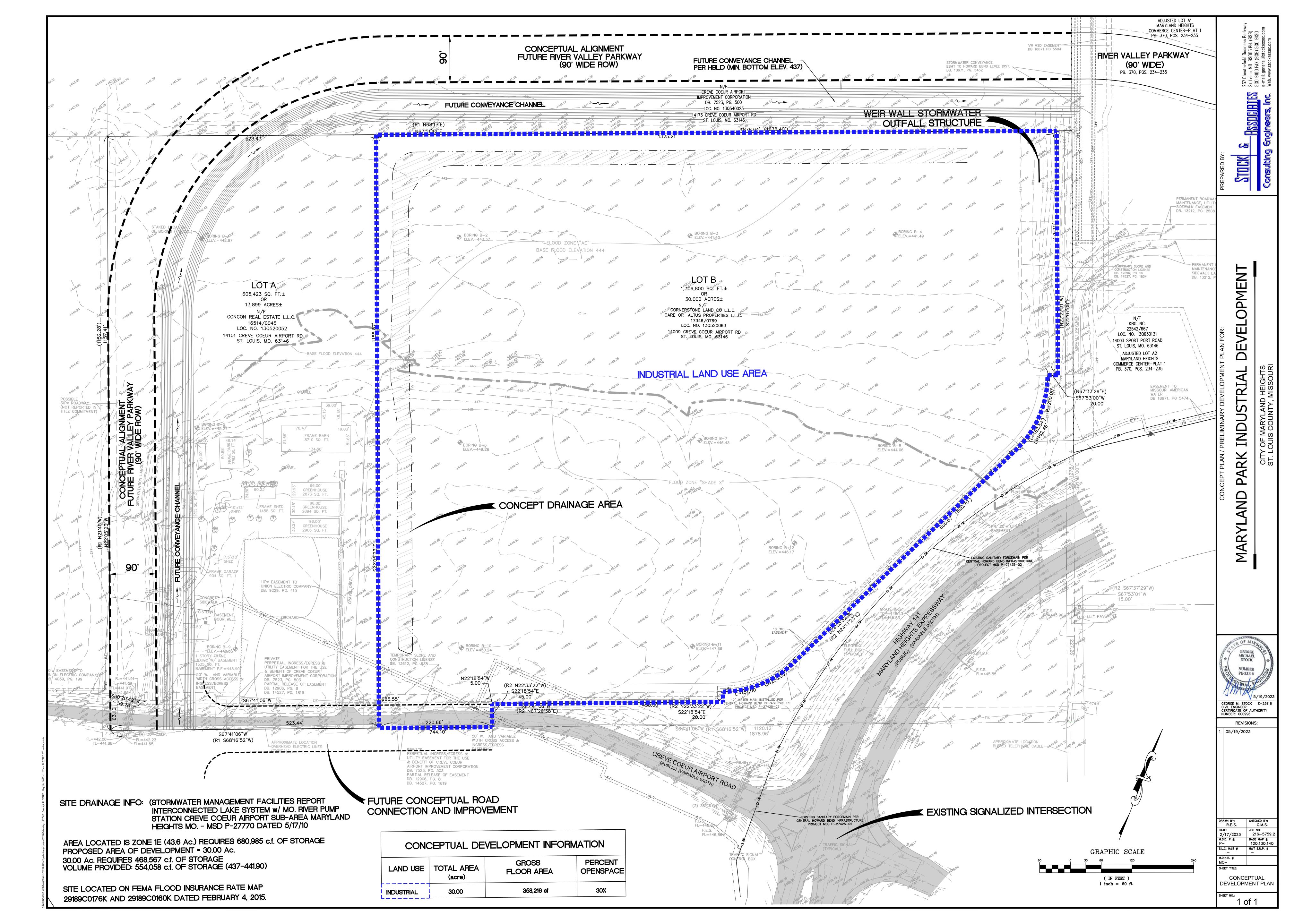
S.L.C. H&T #:
M.D.N.R. #:
MO-

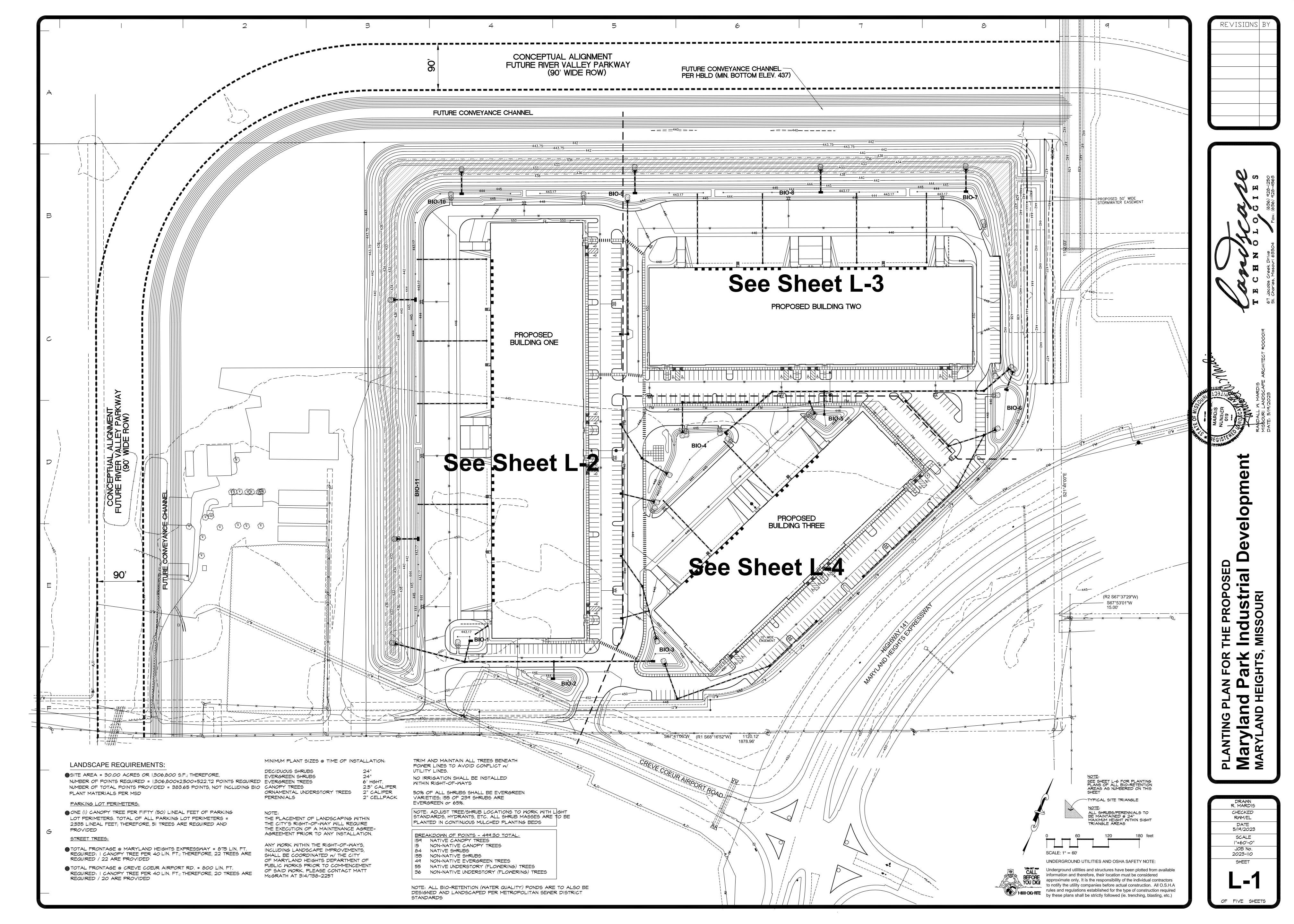
PRELIMINARY SITE SECTIONS

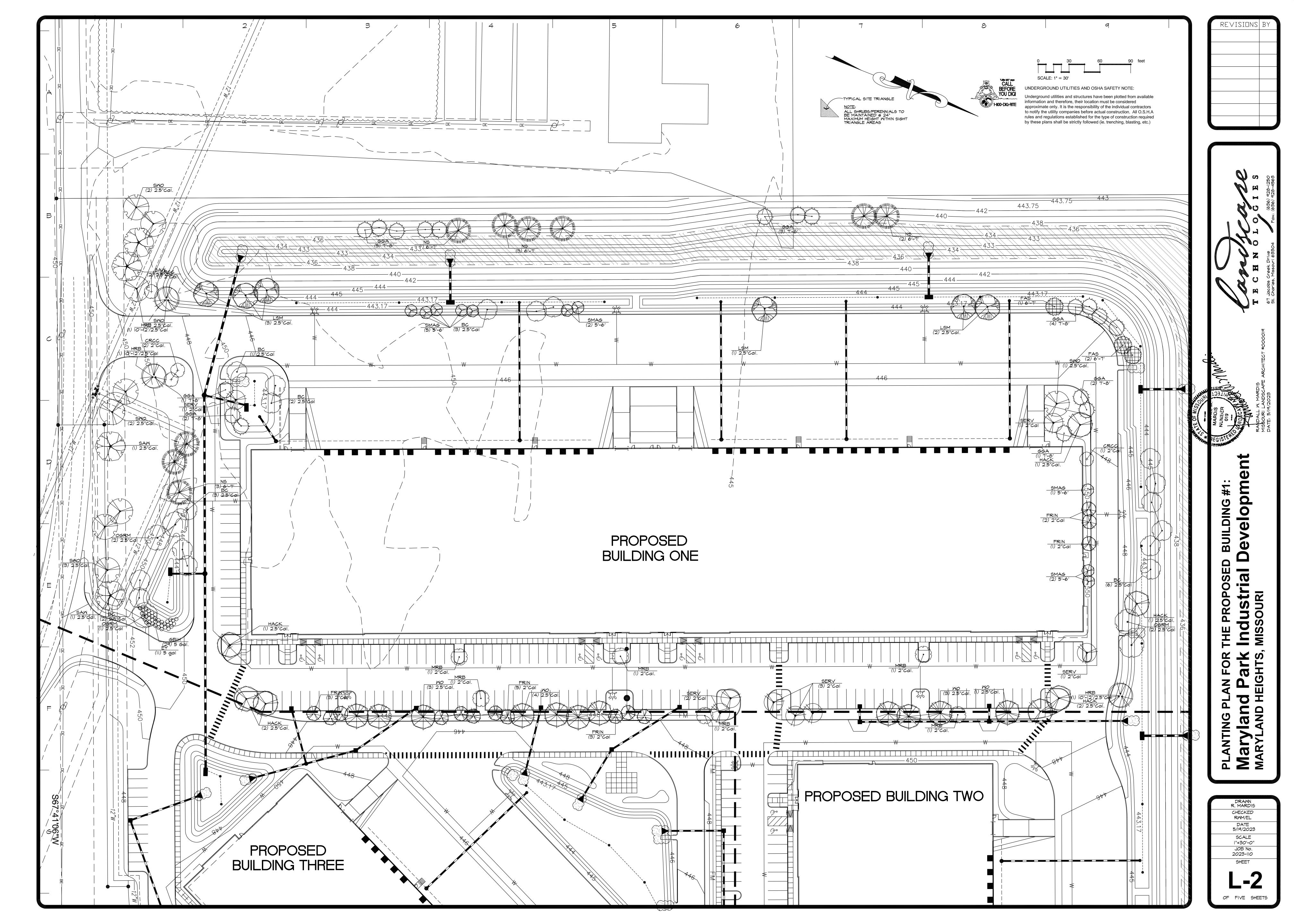
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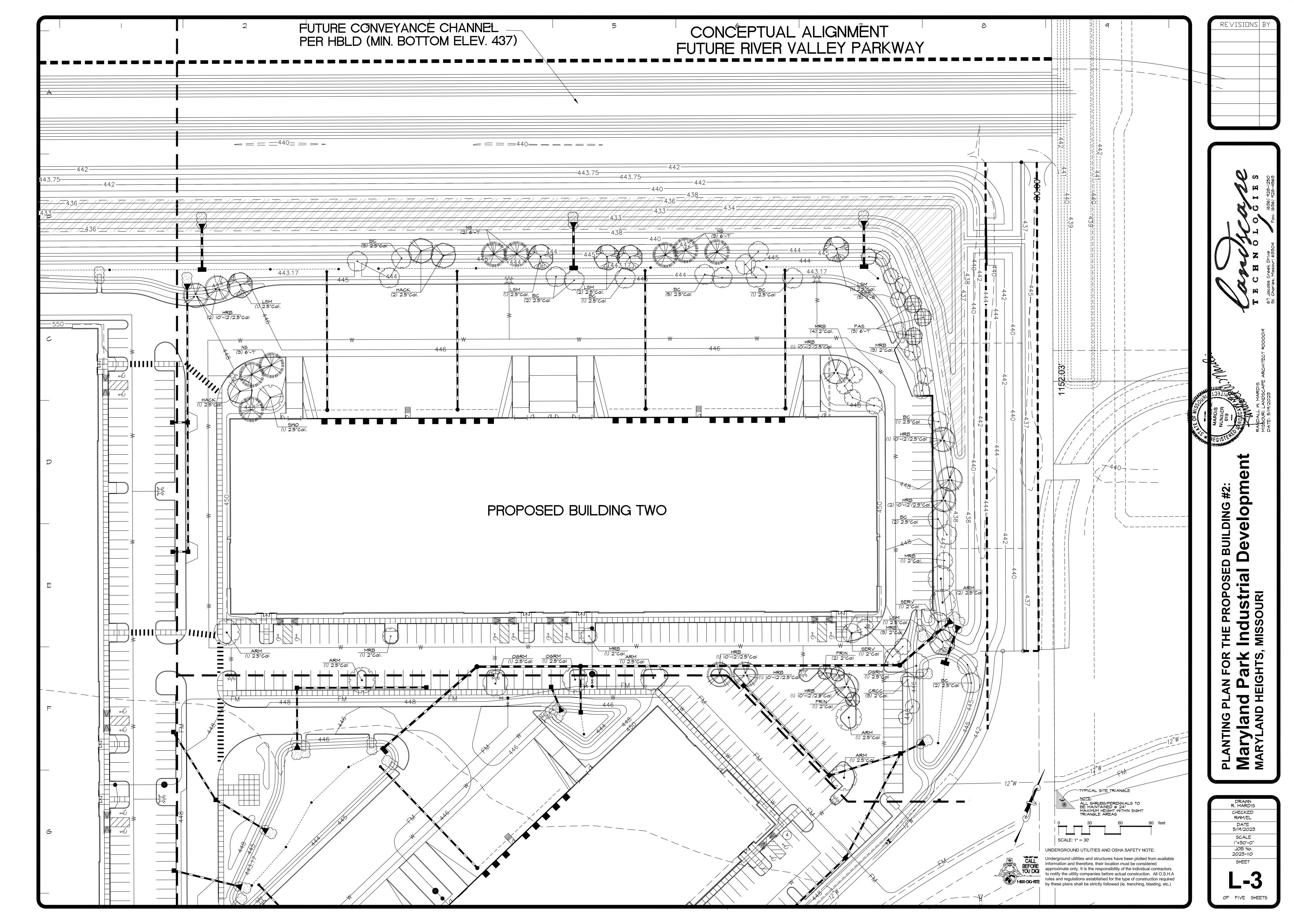
C3.1

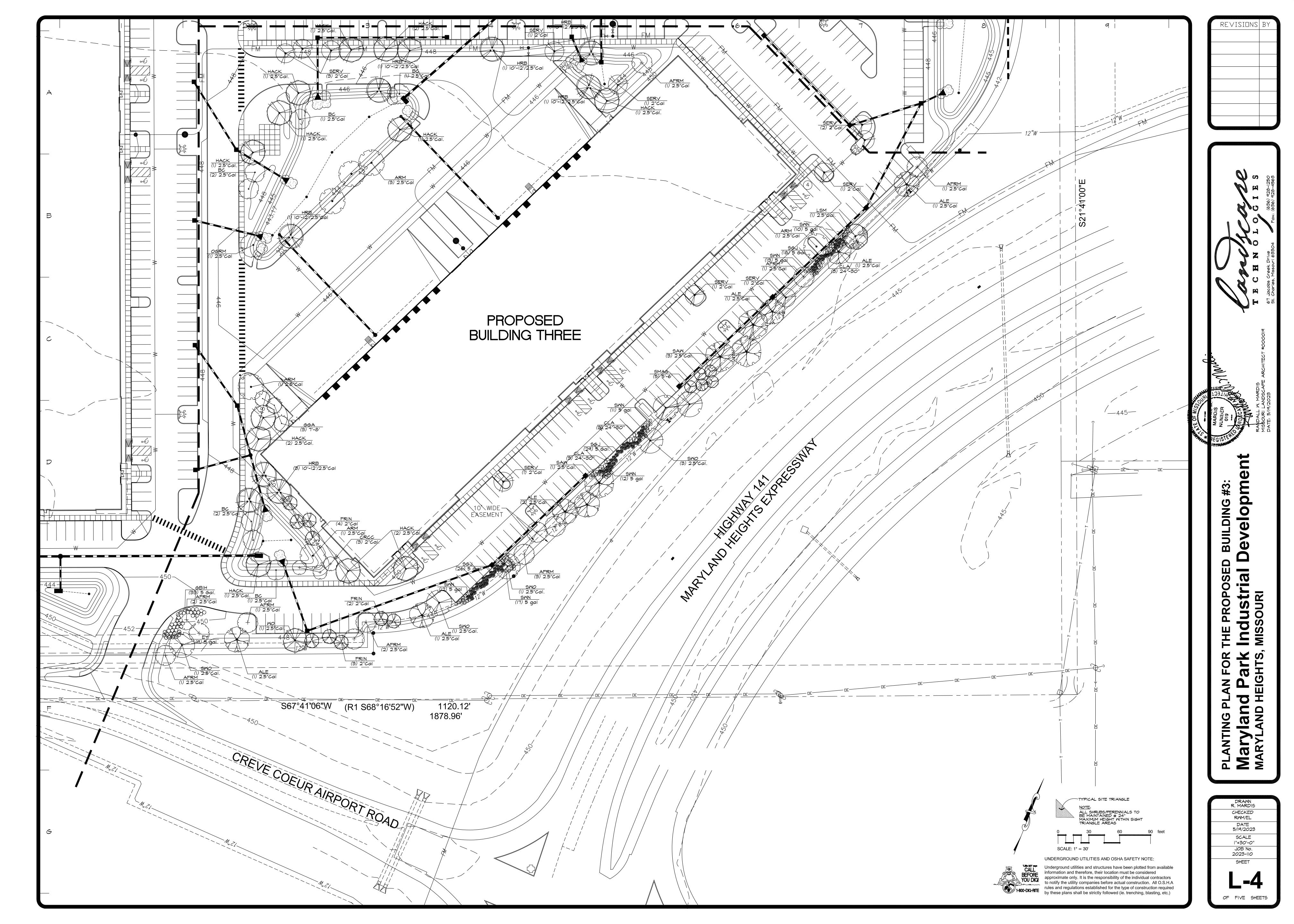












MORNING STAR SEDGE / CAREX GRAYI

PALM SEDGE / CAREX MUSKINGUMENSIS

moved three times. Plant establishment period shall commence on the

5.) A written quarantee shall be provided to the owner per conditions outlined

1.) All planting beds and lawn areas are to be irrigated with a fully

automatic, in-ground irrigation system (By Others).

date of acceptance and 100% completion.

in #l aboÎ.

IRRIGATION:

REVISIONS BY

TECHNOLOGIES

MARDIS NUMBER O19
RANDALL W MARDIS

NN FOR THE PROPOSED

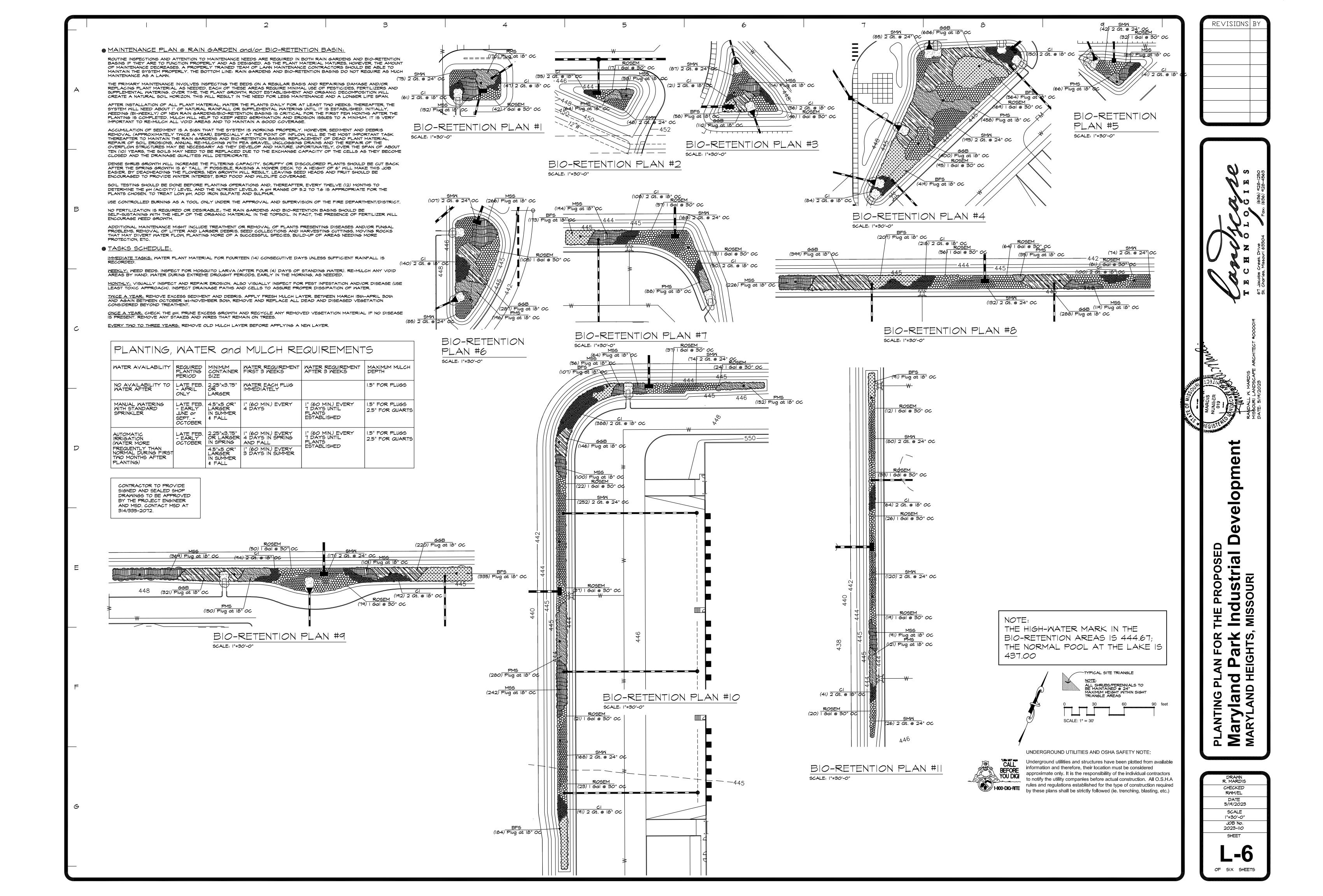
Park Industrial Development MISSOURI

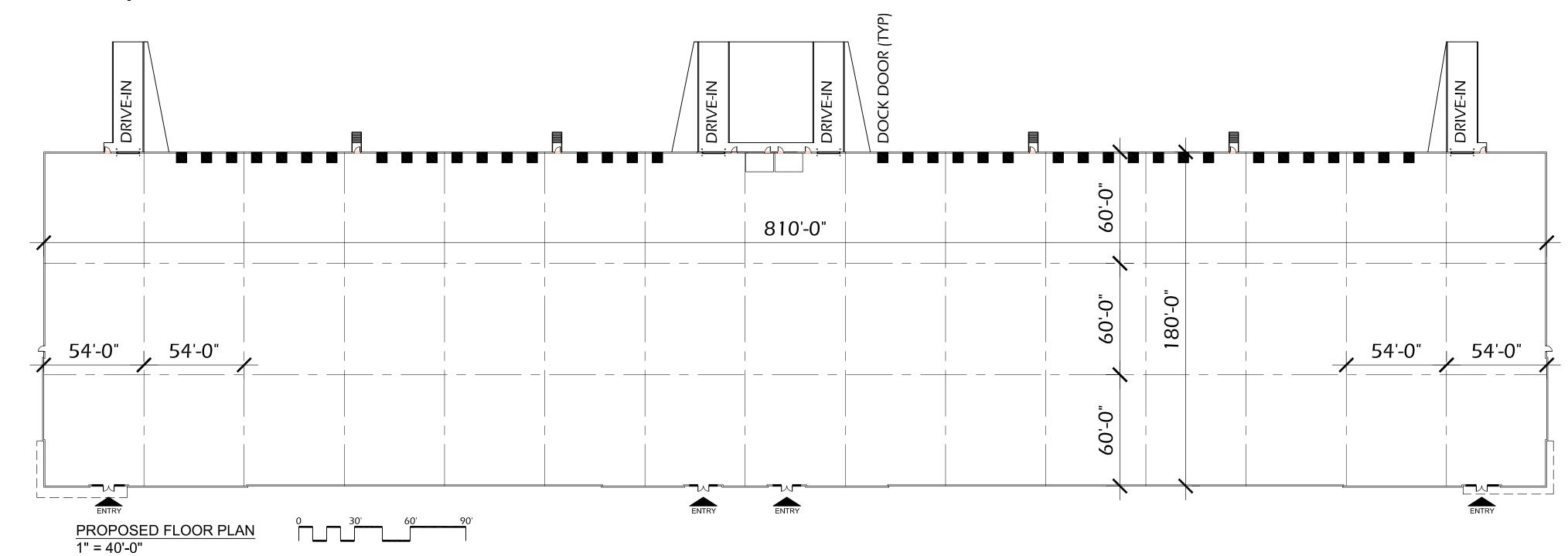
DRAWN
R. MARDIS
CHECKED
RWM/EL
DATE
5/19/2023
SCALE
N.A.
JOB No.
2023-110
SHEET

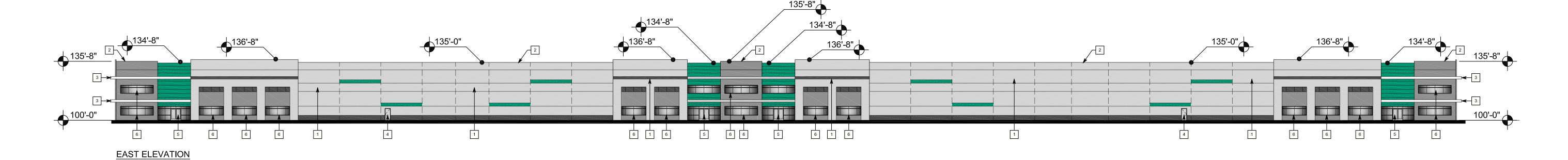
PLUG AT 18" OC

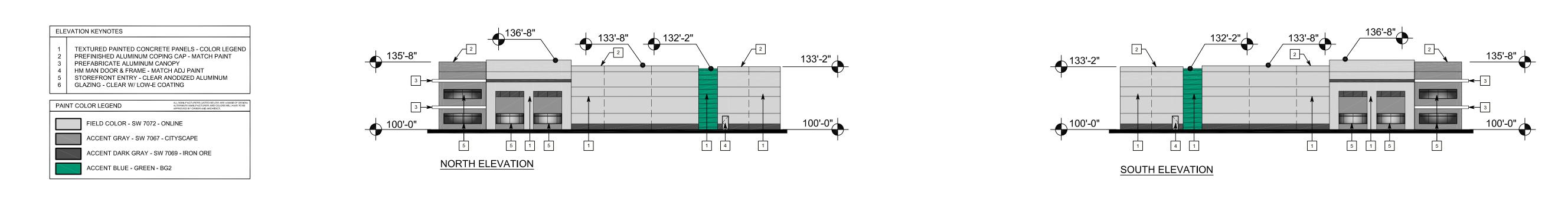
PLUG AT 18" OC

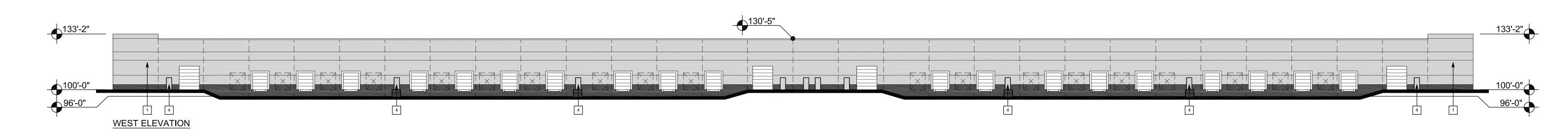
L-5





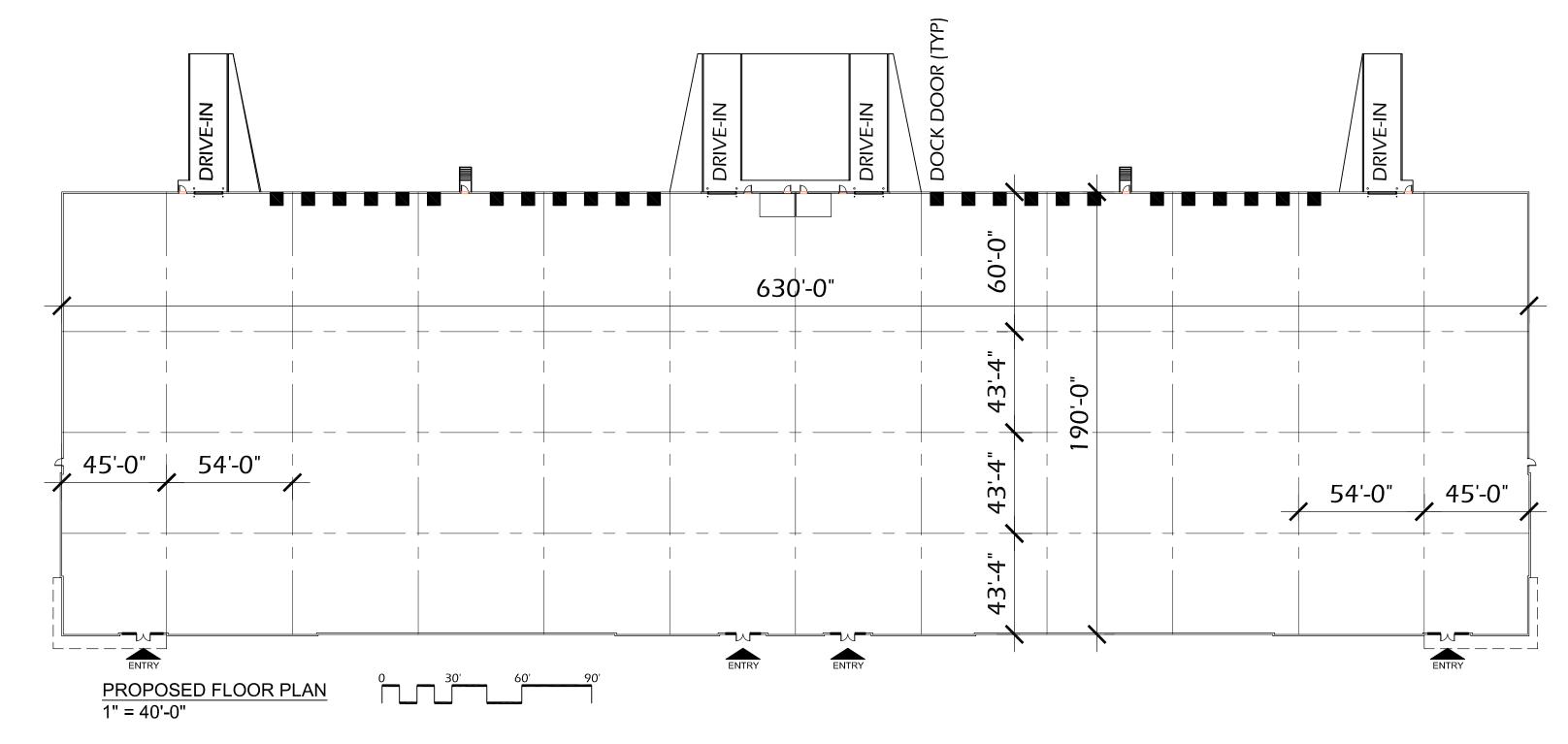


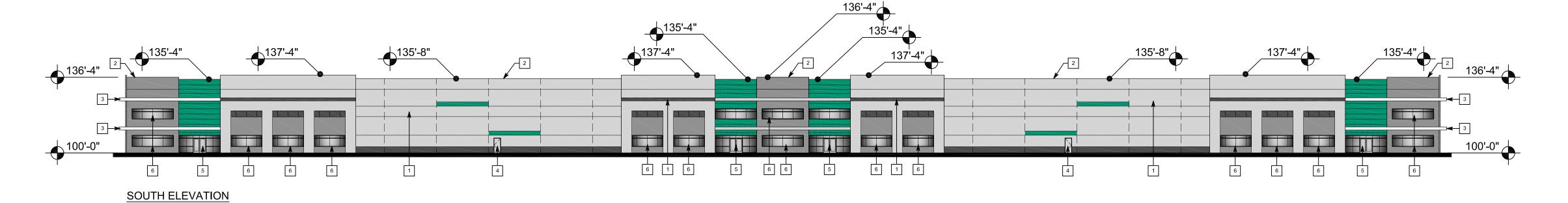


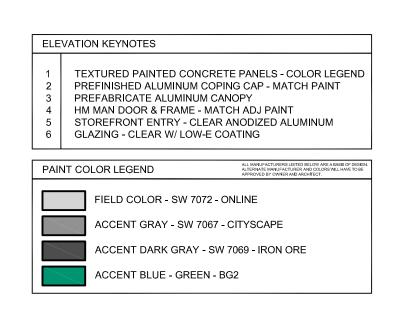


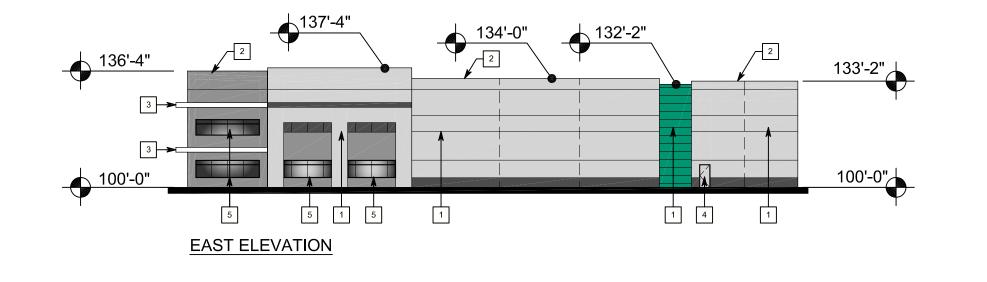


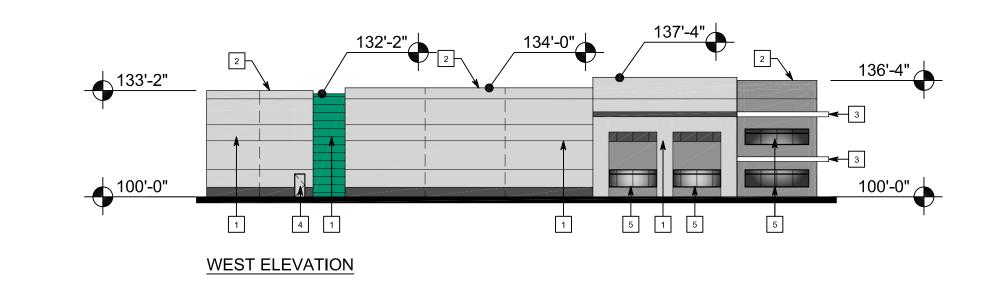


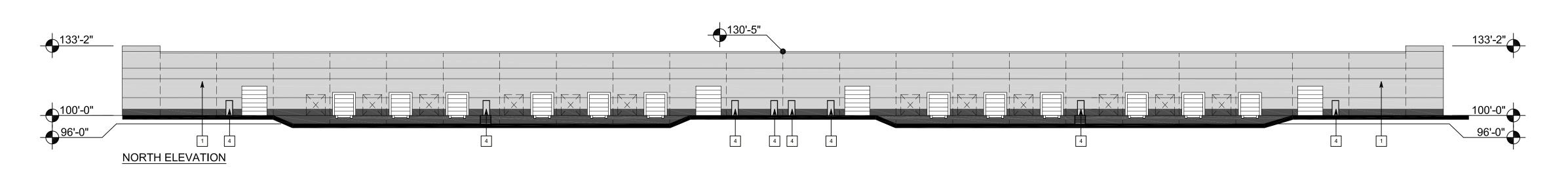








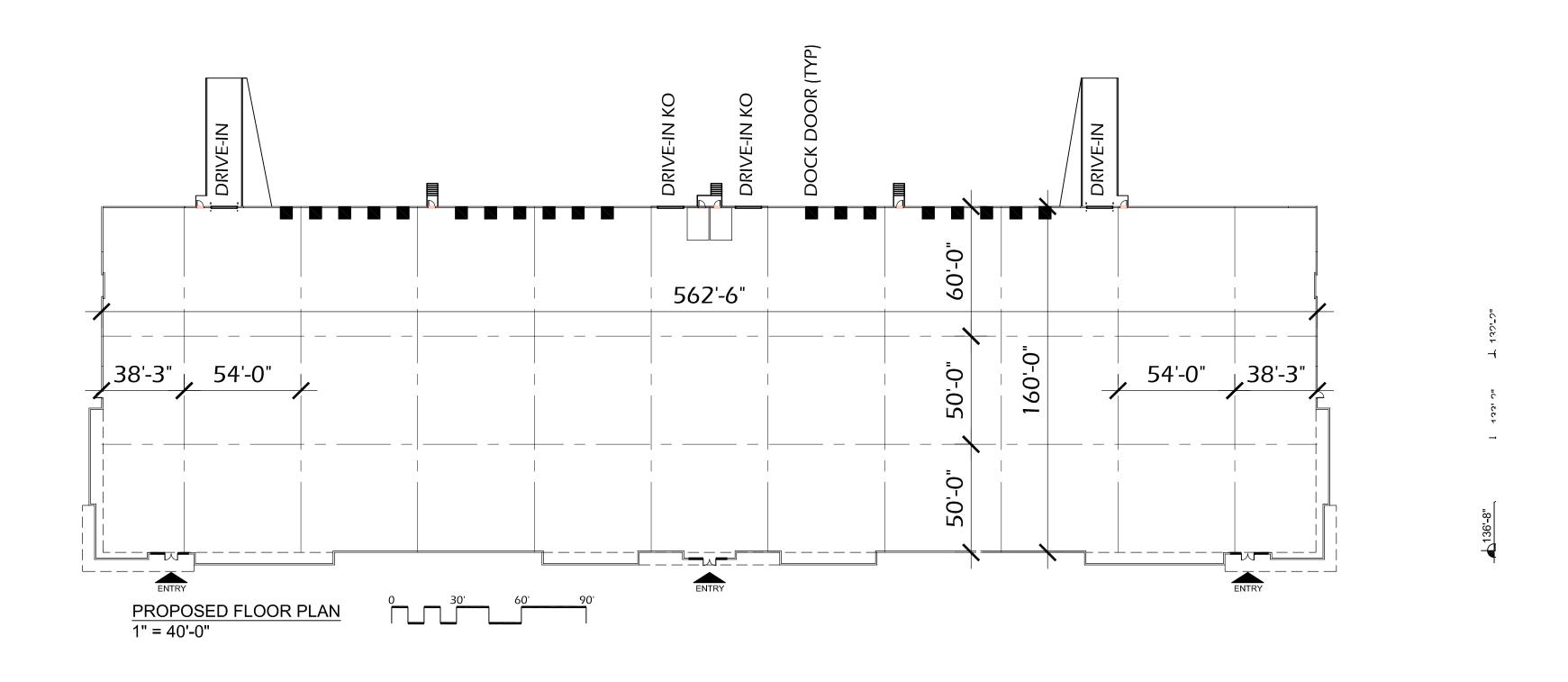


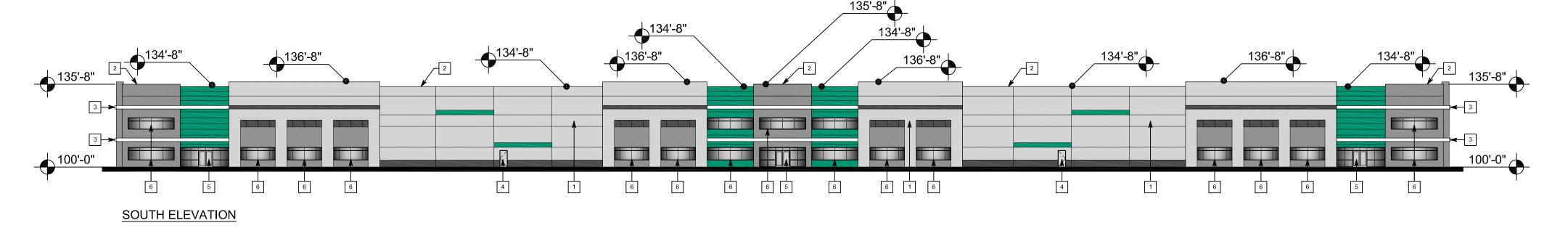


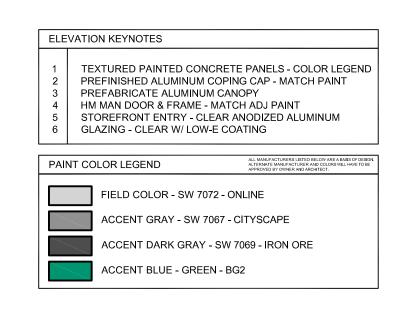


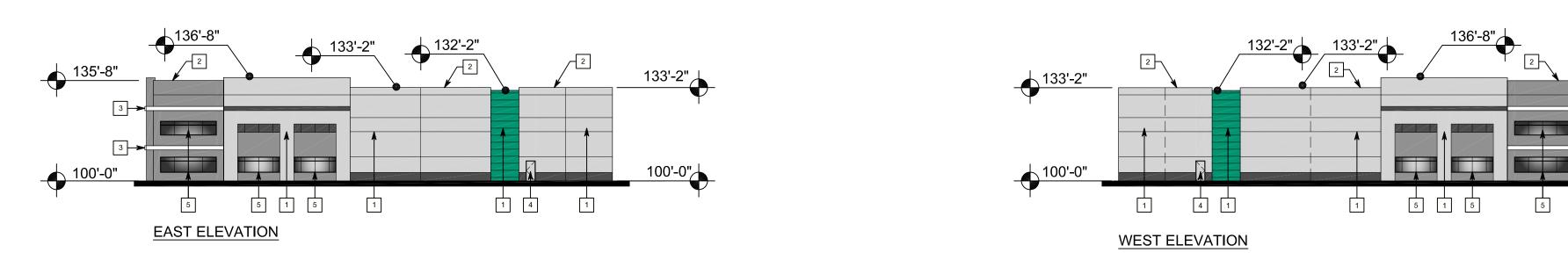


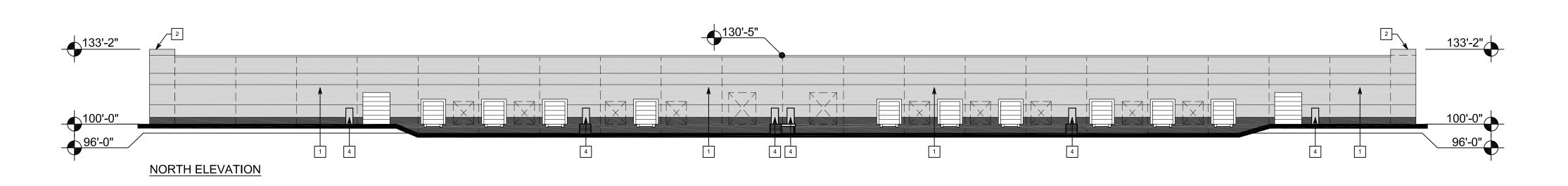
GMA ARCHITECTS















135'-8"

