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Address: 14700 West 114th Terrace Lenexa, KS 66215

March 29, 2024 C23D1880

Mr. Kyle Gorrell Lee's Summit School District Facility Services 600 SE Miller Street Lee's Summit, Missouri 64063

RE: STORM WATER MANAGEMENT

LEE'S SUMMIT HIGH SCHOOL EAST PARKING LOT PROJECT

LEE'S SUMMIT, MISSOURI

Dear Mr. Gorrell:

Kaw Valley Engineering, Inc. has completed a review of the stormwater management implications associated with reconstructing the east parking lot at the Lee's Summit High School Campus located at 400 SE Blue Parkway in Lee's Summit, Missouri.

To accommodate the relocation of Blue Parkway across the southeast corner of the Lee's Summit High School Property, the Lee's Summit School District (LSSD) is proposing to remove the east parking lot and reconstruct the lot northwest of the proposed right of way line with a more efficient layout in accordance with current City of Lee's Summit standards (Phase I). After Blue Parkway has been relocated and a portion of the Missouri Highway Patrol site is deeded to LSSD, the LSSD may elect to expand the stadium parking lot (Phase II). The proposed improvements and changes in land cover are illustrated on the attached Site Plan and Demolition Plan. The existing drainage patterns on the campus will generally be preserved. At completion of Phase I, the campus will realize a reduction in impervious coverage of 13,920 SF. If Phase II is built, 13,760 SF of impervious coverage will be added on site, but the total change in land cover for both phases is a reduction of 160 SF.

Due to the planned decrease in impervious coverage, KVE is requesting that the City of Lee's Summit permits the proposed improvements without mitigation based on exceptions covered in the City of Lee's Summit Design and Construction Manual. Exception 5601.3, A.2 is the most applicable exception for this project. The exception states that the APWA 5600 design criterion does not apply for redevelopment and maintenance activities that include remodeling, repair, replacement or other improvements to any existing structure or facility and appurtenances that does not cause an increased area of impervious surface on the site.

If you have any questions or require additional information, please do not hesitate to contact me at (913) 894-5150.

Respectfully submitted,

Kaw Valley Engineering, Inc

David D. Wood, P.E. Project Manager

Attachments: Site Plan, Demolition Plan, Grading Plan, Drainage Plans

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LEE'S SUMMIT HIGH SCHOOL **DEVELOPMENT PLAN - EAST PARKING LOT PHASE I**

400 SE BLUE PARKWAY, LEE'S SUMMIT, MO 64063 **SECTION 8 - TOWNSHIP 47 N - RANGE 31 W**



LEE'S SUMMIT SCHOOL DISTRICT 302 SE TRANSPORT RD, LEE'S SUMMIT, MO 64081 PHONE: (816) 986-2421 CONTACT: KYLE GORRELL EMAIL: kyle.gorrell@lsr7.net

PREPARED BY: KAW VALLEY ENGINEERING, INC. 14700 W 114TH TERR. LENEXA, KANSAS 66215 PHONE: (913) 894-5150 CONTACT: DÁVID WOOD EMAIL: wood@kveng.com



PROJECT Call before you dig.

> VICINITY MAP SEC 8 - TWP 47N - RNG 31W NOT TO SCALE

CONSTRUCTION NOTES:

COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH THE LEE'S SUMMIT SCHOOL CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE KANSAS CITY METROPOLITAN CHAPTER OF APWA STANDARD SPECIFICATIONS AS

ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE

MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO PUBLIC RIGHT-OF-WAYS IN THE CONSTRUCTION AREA. ALL DIMENSIONS SHOWN ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL DEVICES, INSTALLATION AND OPERATIONS SHALL CONFORM WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

DESCRIPTION: (PER TITLE COMMITMENT)

FRACT 1: (MISSOURI WARRANTY DEED, Bk. 1-80, Pg. 1904) ALL THAT PART OF LOT 3, MUCKEY ADDITION, A SUBDIVISION OF LAND IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI ACCORDING TO THE RECORDED PLAT THEREOF, LYING SOUTH OF THE SOUTH LINE OF 6TH STREET IN LEE'S SUMMIT, AS SAID STREET IS DESCRIBED IN THE DEED RECORDED IN BOOK

DESCRIPTIONS: (PER TITLE COMMITMENT)

FRACT 1: (MISSOURI WARRANTY DEED, BOOK 923, AT PAGE 743)(DEED 1A) ALL OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, EXCEPT THAT PART CONVEYED TO THE STATE OF MISSOURI BY WARRANTY DEED RECORDED IN BOOK 656 AT PAGE 111 (DEED 1B), AND

ALSO EXCEPT THAT PART THEREOF CONVEYED TO THE STATE OF MISSOURI BY WARRANTY DEED RECORDED IN BOOK 661 AT PAGE 166 (DEED 1C),

- ALSO EXCEPT THAT PART THEREOF CONVEYED TO ARTHUR B. MCLENNAN AND PAULINE P. MCLENNAN, HUSBAND AND WIFE BY WARRANTY DEED RECORDED IN BOOK 883 AT PAGE 51 (DEED 1D), AND ALSO EXCEPT A TRACT OF LAND IN SAID SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, SECTION

BEGINNING AT A POINT 651.69 FEET NORTH OF THE SOUTHEAST CORNER OF THE SAID QUARTER QUARTER SECTION, THENCE WEST 491.69 FEET; THENCE NORTH 63 FEET; THENCE EAST 491.69 FEET TO DECREASE: THE QUARTER SECTION LINE; THENCE SOUTH 63 FEET TO POINT OF BEGINNING.

2: (MISSOURI WARRANTY DEED, BOOK 1243, AT PAGE 716)(DEED 2) ALL OF THE WEST 327 FEET OF THE NORTH 2 ACRES OF THE SOUTH 5 ACRES OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, MORE PARTICULARLY DESCRIBED AS

BEGINNING AT A POINT 198 FEET NORTH OF THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN SCALED AROUND 0,0 JACKSON COUNTY, MISSOURI, AND RUNNING THENCE EAST 327 FEET; THENCE NORTH 132 FEET; THENCE WEST 327 FEET; THENCE SOUTH 132 FEET TO POINT OF BEGINNING.

FRACT 3: (MISSOURI WARRANTY DEED, BOOK 1277, AT PAGE 325)(DEED 3) HE SOUTH 5 ACRES OF THE WEST HALF OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEES' SUMMIT, JACKSON COUNTY, MISSOURI.

RACT 4: (REPORT OF COMMISSIONERS, BOOK 1484, AT PAGE 306)(DEED 4) ALL OF THE WEST 327 FEET OF THE SOUTH 3 ACRES OF THAT PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8 TOWNSHIP 47, RANGE 31 IN LEE'S SUMMIT, JACKSON COUNTY,

BEGINNING AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER AND RUNNING THENCE EAST 327 FEET; THENCE NORTH 198 FEET; THENCE WEST 327 FEET; THENCE SOUTH 198 FEET TO THE POINT OF BEGINNING.

RACT 5: (MISSOURI WARRANTY DEED, BOOK 1491, AT PAGE 140)(DEED 5) ALL THAT PART OF THE EAST HALF OF THE NORTHWEST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF THE INTERSECTION OF 7TH STREET AND BROWNING AVENUE; THENCE SOUTH ALONG THE EAST LINE OF BROWNING AVENUE A DISTANCE OF 678.52 FEET TO THE NORTH LINE OF 8TH STREET: THENCE EAST ALONG THE NORTH LINE OF 8TH STREET A DISTANCE OF 33 FEET TO THE EAST LINE OF SAID QUARTER SECTION; THENCE NORTH ALONG THE EAST LINE OF SAID QUARTER SECTION A DISTANCE OF 678.52 FEET TO THE NORTH LINE OF 7TH STREET EXTENDED; THENCE WEST ALONG THE NORTH LINE OF 7TH STREET EXTENDED A DISTANCE OF 135.77 FEET TO THE

FRACT 6: (MISSOURI WARRANTY DEED, BOOK 1536, AT PAGE 205)(DEED 6) ALL THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47 RANGE 31, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 556.69 FEET NORTH OF THE SOUTHEAST CORNER OF 1/4 OF 1/4 SECTION: THENCE WEST 491.68 FEET; THENCE NORTH 158 FEET; THENCE EAST 491.69 FÉET; THÉNCE SOUTH 158 FEET TO THE POINT OF BEGINNING, ALL IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI,

EXCEPT THAT PART CONTAINED IN THE REPORT OF COMMISSIONERS RECORDED AS DOCUMENT NO 131081 IN BOOK 189 AT PAGE 465, DESCRIBED AS FOLLOWS:

JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS: BEGINNING AT A POINT 714.69 FEET NORTH AND 57 FEET WEST OF THE SOUTHEAST CORNER OF THE SW 1/4 OF THE NE 1/4 OF SAID SECTION 8, SAID POINT BEING 70 FEET WESTERLY OF THE CENTERLINE OF STATE HIGHWAY DESIGNATED ROUTE 00 (71 BY-PASS), AS MEASURED AT RIGHT ANGLES THERETO; THENCE SOUTH 3 DEGREES 14 MINUTES 23 SECONDS WEST PARALLELING SAID HIGHWAY CENTERLINE, 158 FEET; THENCE WEST PARALLELING THE SOUTH LINE OF SAID 1/4 1/4 SECTION, A DISTANCE OF 432 FEET; THENCE NORTH PARALLELING THE EAST LINE OF SAID 1/4 1/4 SECTION, A DISTANCE OF 75 FEET; THENCE NORTHEASTERLY ALONG A STRAIGHT LINE TO THE POINT OF BEGINNING.

<u> [RACT 7:</u> (MISSOURI WARRANTY DEED, BOOK 1869, AT PAGE 312)(DEED 7) EGINNING AT A POINT 1320.0 FEET NORTH OF THE EAST-WEST CENTER LINE OF SECTION 8, TOWNSHIP 47. RANGE 31. IN LEE'S SUMMIT. JACKSON COUNTY, MISSOURI, AND ON THE EAST LINE OF THE EAST 1/2 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION; THENCE WEST 186.3; THENCE NORTH 100 FEET; THÉNCE EAST 186.3 FEET TO A POINT ON THE EAST LINE; THENCE SOUTH ON SAID EAST LINE 100.0 FEET TO THE POINT OF BEGINNING, EXCEPTING THEREFROM THAT PART SITUATED IN US HIGHWAY 71 BY-PASS.

FRACT 8: (MISSOURI WARRANTY DEED, BOOK 1869, AT PAGE 313)(DEED 8) ALL OF THE SOUTH 3 ACRES OF THE EAST ½ OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT JACKSON COUNTY, MISSOURI, EXCEPT THE WEST 327 FEET THEREOF AND ALSO EXCEPT THE SOUTH 100 FEET OF THE EAST 186.3 FEET THEREOF.

FRACT 9: (MISSOURI WARRANTY DEED, BOOK I-79, AT PAGE 635)(DEED 9) THE EAST 88.5 FEET OF THAT PART OF LOT 1. MUCKEY ADDITION, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, LYING SOUTH OF THE SOUTH LINE OF 6TH STREET, AS SAID STREET IS DESCRIBED IN DEED RECORDED IN BOOK 1039 AT PAGE 122, EXCEPT THE NORTH 155 FEET OF SAID

RACT 10: (MISSOURI WARRANTY DEED, BOOK 551, AT PAGE 135)(DEED 10) ALL OF THE NORTH 2 ACRES OF THE SOUTH 5 ACRES OF THE SOUTHEAST 1/4 OF THE NORTHWEST /4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31, EXCEPT ALL THE WEST 327 FEET THEREOF MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT 198 FEET NORTH OF THE SOUTHWEST CORNER OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31 AND RUNNING THENCE EAST 327 FÉET; THENCE NORTH 132 FEET; THENCE WEST 327 FEET, THENCE SOUTH 132 FEET TO POINT OF BEGINNING, ALL IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

TRACT 11: (MISSOURI WARRANTY DEED, BOOK 623, AT PAGE 833)(DEED 11) THE SOUTH 220 FEET OF THE WEST 88.5 FEET OF LOT 1, MUCKEY ADDITION, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

STORM WATER MANAGEMENT:

STORM WATER MANAGEMENT IS PROPOSED AS PART OF THIS PROJECT COMPLIES WITH THE KC METROPOLITAN CHAPTER OF APWA DESIGN CRITERIA SECTION 5600 AS ADOPTED BY THE CITY OF LEE'S SUMMIT. PROPOSED STORM WATER MANAGEMENT SYSTEM WILL MITIGATE INCREASES IN RUNOFF FOR THE STORM EVENTS ANALYZED TO A RATE AT OR LESS THAN THE EXISTING CONDITIONS.

<u>UNDERGROUND UTILITY STATEMENT:</u>

ONE-CALL LOCATED UTILITIES AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL UNDERGROUND UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION DEPICTED ALTHOUGH HE DOES CERTIFY THAT THEY ARE DEPICTED AS ACCURATELY AS POSSIBLE FROM INFORMATION MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES SHOWN HEREON BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY. MISSOURI ONE CALL TICKET NUMBER: #200431409, 200431440, 200431475, 200440745.

FLOOD STATEMENT:

THE SURVEYED PARCEL LIES WITHIN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL FLOODPLAIN) AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP NUMBER 29095C0438G, MAP REVISED JANUARY 20, 2017, AND BY MAP NUMBER 29095C0436G, REVISED JANUARY 20, 2017 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI. LOCATION DETERMINED BY A SCALED GRAPHICAL PLOT OF THE FLOOD INSURANCE RATE MAP.

SITE DATA:

TOTAL SITE AREA: 1,983,297 SF - 45.53 Ac

PROJECT AREA/AREA OF DISTURBANCE PHASE I: 124,423 SF (2.856 AC.)

1154 REGULAR (22 ACCESSIBLE) STALLS 1116 REGULAR (22 ACCESSIBLE) STALLS PROPOSED (COMPLETION OF PHASE I): PROPOSED: (COMPLETION OF PHASE II): 1171 REGULAR (22 ACCESSIBLE) STALLS

PROPOSED IMPERVIOUS COVERAGE WITHIN PHSAE I PROJECT AREA 90,419 S.F. - 2.076 AC.

76,499 S.F. - 1.756 AC. 13,920 S.F. - 0.323 AC.

TOTAL: RP-2, CP-1(EAST 290')

HORIZONTAL AND VERTICAL DATUM: UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE (1983) WEST ZONE (NAD 1983) (NAVD 1988)

NORTHING: 303646.030 (GRID/METERS) 996313.829 (GROUND/FEET) EASTING: 860950.475 (GRID/METERS) 2824923.692 (GROUND/FEET) ELEVATION: 321.8 (METERS) 1055.77 (FEET)

SITE BENCHMARKS:

FOUND CUT SQUARE AT THE SOUTHWEST CORNER OF CONCRETE HEADWALL OF CONCRETE FLUME ON THE WEST SIDE OF THE SCHOOL SOUTHEAST OF ENTRY DRIVE. ELEVATION= 1042.70

SET CUT SQUARE AT THE TOP NORTHEAST CORNER OF A CONCRETE PATIO WITH COVERED TABLES ON THE EAST SIDE OF BUILDING "B". ELEVATION= 1015.74

996468.55 (GRID)

2826766.55 (GRID)

PROJECT CONTROL:

REBAR W/ ORANGE KVE CAP NORTHING: 996572.06 (GROUND) 996470.24 (GRID) EASTING: 2827438.76 (GROUND) 2827149.83 (GRID) ELEV = 1049.49

1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996570.39 (GROUND) EASTING: 2827055.45 (GROUND)

OLSSON CONTROL POINT #3

1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996889.02 (GROUND) 996787.14 (GRID) EASTING: 2827403.78 (GROUND) 2827114.81 (GRID)

NORTHING: 997219.69 (GROUND) 997117.77 (GRID) EASTING: 2828082.23 (GROUND) 2827793.20 (GRID) ELEV = 1034.64

OLSSON CONTROL POINT #4 NORTHING: 997996.59 (GROUND) 997894.59 (GRID) EASTING: 2828118.84 (GROUND) 2827829.81 (GRID) ELEV = 1032.75

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OF PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

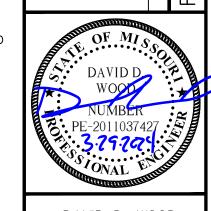
CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH

CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

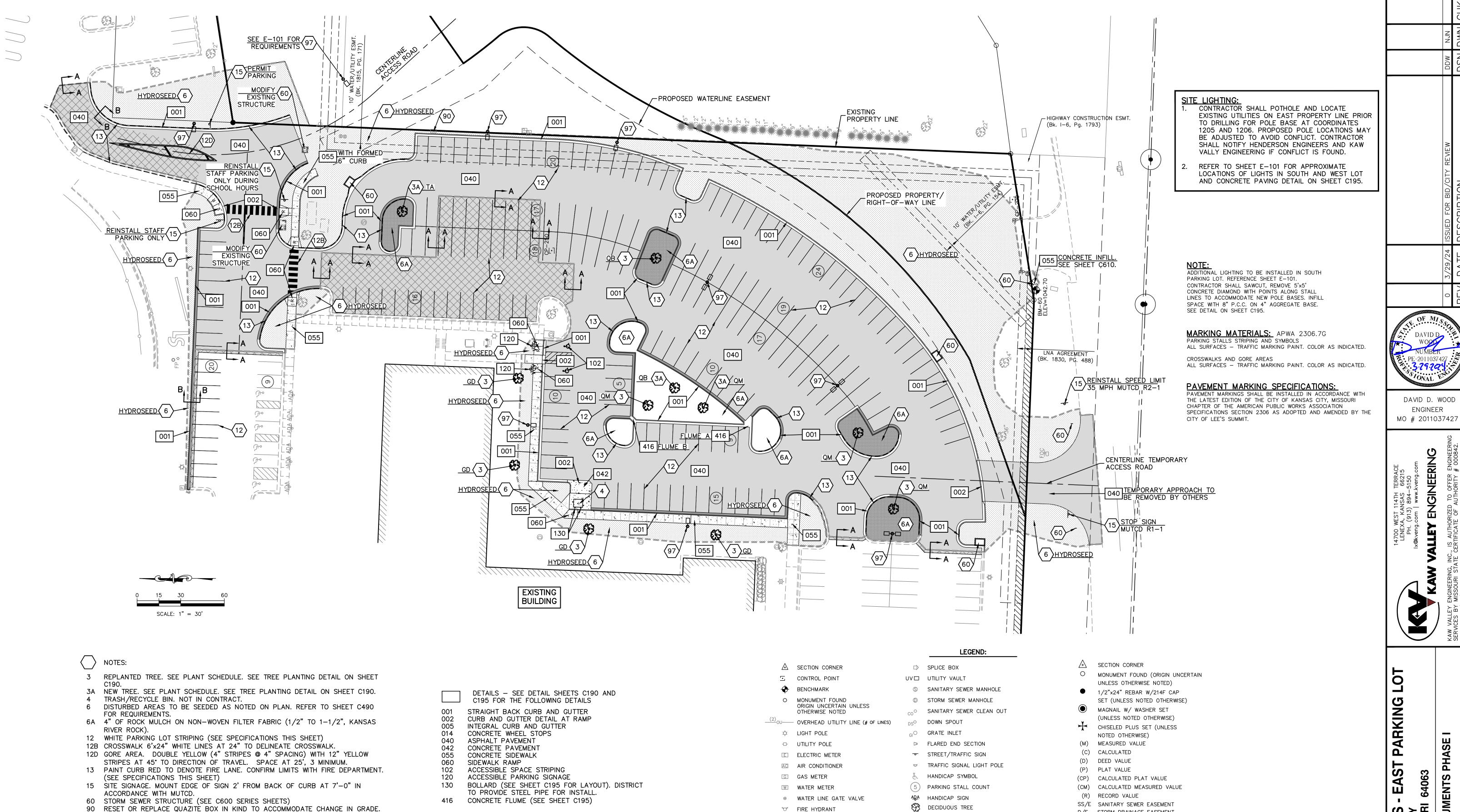


DAVID D. WOOD ENGINEER MO # 2011037427

TION TE PI

DESIGNER

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC



	PLAN [*]	T LIST					
	SYM.	BOTANICAL NAME	COMMON NAME	SIZE	POT/B&B	SPACING	REMARKS
		DECIDUOUS TREE					
4	GD	Gymnocladus dioicus 'Expresso'	Seedless Kentucky Coffeetree	2-1/2" Caliper	B&B		Single Straight Leader; Well Branched
4	QB	Quercus bicolor	Swamp White Oak	2-1/2" Caliper	B&B		Single Straight Leader; Well Branched
2	QM	Quercus maccrcarpa	Bur Oak	2-1/2" Caliper	B&B		Single Straight Leader; Well Branched
1	TA	Tilia americana 'Boulevard'	Boulevard Linden	2-1/2" Caliper	B&B		Single Straight Leader; Well Branched

WARRANTY PERIOD IS 1 YEAR AND AN ADDITIONAL 1 YEAR FROM THE TIME OF REPLANTING AS APPLICABLE.

97 PROPOSED SITE LIGHTING (REFER TO MEP PLANS AND SPECIFICATIONS). CENTER OF POLE BASE SHALL BE PLACED A MINIMUM OF 3'-0" FROM BACK OF CURB. SEE DIMENSION PLAN FOR LOCATIONS.

			LEGEND:			
\triangle	SECTION CORNER	ightharpoons	SPLICE BOX		\triangle	SECTION CORNER
_ _	CONTROL POINT	UV□	UTILITY VAULT		0	MONUMENT FOUND (ORIGIN UNCERTAIN
	BENCHMARK	(S)	SANITARY SEWER MANHOLE			UNLESS OTHERWISE NOTED)
0	MONUMENT FOUND	(D)	STORM SEWER MANHOLE			1/2"x24" REBAR W/214F CAP SET (UNLESS NOTED OTHERWISE)
G	ORIGIN UNCERTAIN UNLESS		SANITARY SEWER CLEAN OUT			MAGNAIL W/ WASHER SET
(2) _{OU}	OTHERWISE NOTED	co ^o			•	(UNLESS NOTED OTHERWISE)
 0U	OVERHEAD UTILITY LINE (# OF LINES)	DS ^O	DOWN SPOUT		*	CHISELED PLUS SET (UNLESS
\$	LIGHT POLE	GIO	GRATE INLET		~	NOTED OTHERWISE)
-0-	UTILITY POLE	\triangleright	FLARED END SECTION		(M)	MEASURED VALUE
E	ELECTRIC METER	-o-	STREET/TRAFFIC SIGN		(C)	CALCULATED
AC	AIR CONDITIONER	7,4 *	TRAFFIC SIGNAL LIGHT POLE		(D)	DEED VALUE
G	GAS METER	ê.	HANDICAP SYMBOL		(P) (CP)	PLAT VALUE CALCULATED PLAT VALUE
W	WATER METER	(5)	PARKING STALL COUNT		(CM)	CALCULATED MEASURED VALUE
⊗	WATER LINE GATE VALVE	ADA	HANDICAP SIGN		(R)	RECORD VALUE
		~ (1)	DECIDUOUS TREE		SS/E	SANITARY SEWER EASEMENT
8	FIRE HYDRANT		CONIFEROUS TREE		D/E	STORM DRAINAGE EASEMENT
ws ^o	WATER SPIGOT	**		, d. d.		CONCRETE PAVEMENT (042) W/JOINTING
sv ^o	SPRINKLER VALVE	\sim		TYPE		TYPE 3
BBO	BREAKER BOX	*	TURN LANE DIRECTION	JOINT (TY		JOINT (TYP)
EOO	ELECTRIC OUTLET		ASPHALT SURFACE COURSE	8		CONCRETE SIDEWALK (055+005) W/JOINT
DE	DOOR ELEVATION (AT THRESHOLD)		FULL DEDTH ASSUMET DAVEMENT (O	40)	L	LANDING
FF	FINISH FLOOR ELEVATION		FULL DEPTH ASPHALT PAVEMENT (0-	40)	R	RAMP
	BUSH		CONCRETE CURB AND GUTTER		Т	TRANSITION
- 	BASKETBALL GOAL		CONCRETE CURB AND GUTTER WITH REVERSE FLOW			
	LIMITS OF DISTURBANCE		PAINTED CURB FOR FIRE LANE 13	\rangle		
A B	ASPHALT EDGE TREATMENT. SEE SECTION ON C190			,		

1. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

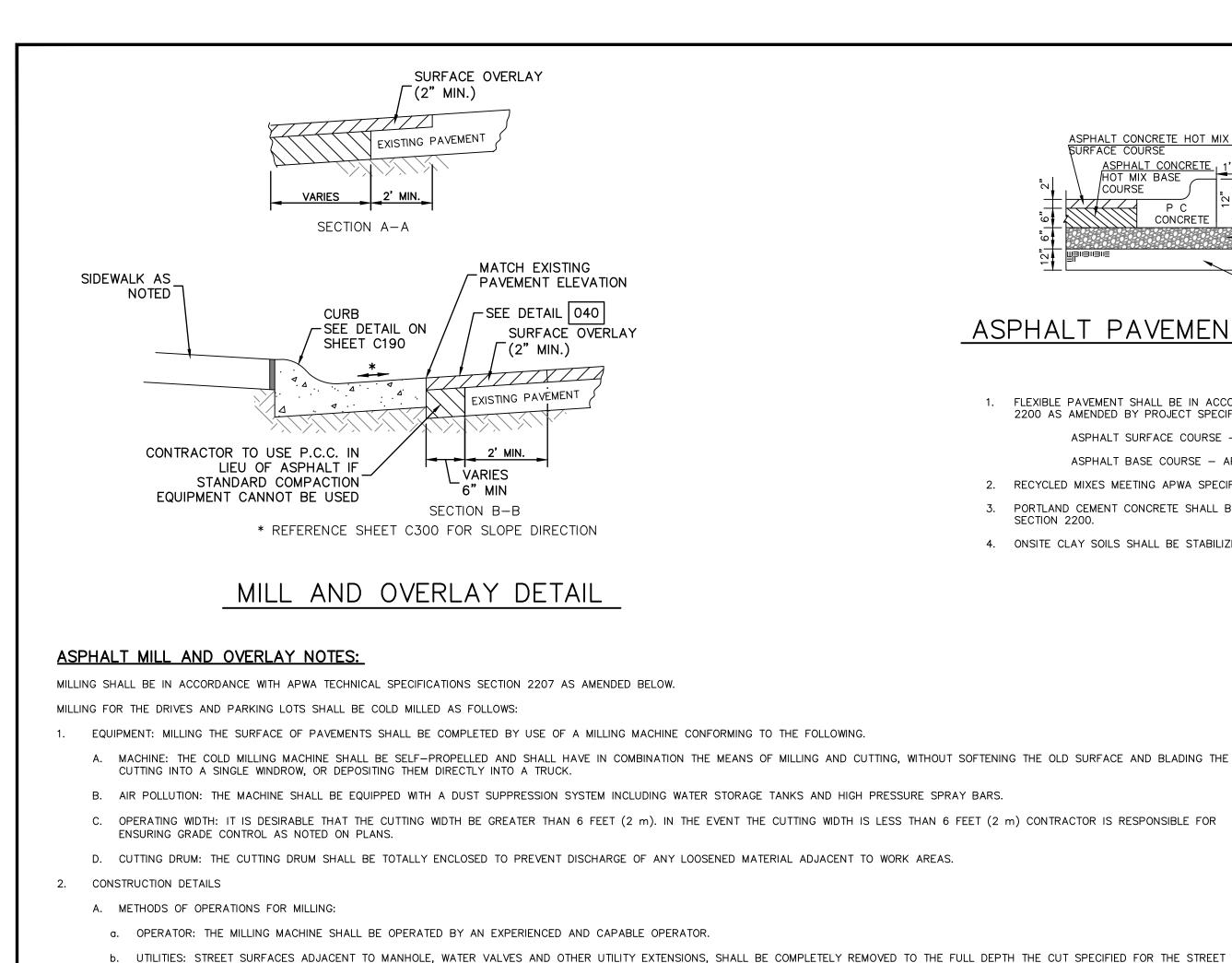
Know what's below. Call before you dig.

STRUCTION I C23_1880
DESIGNER DRAWN BY DDW

DAVID D. WOOD

ENGINEER

ENGINEERING



UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

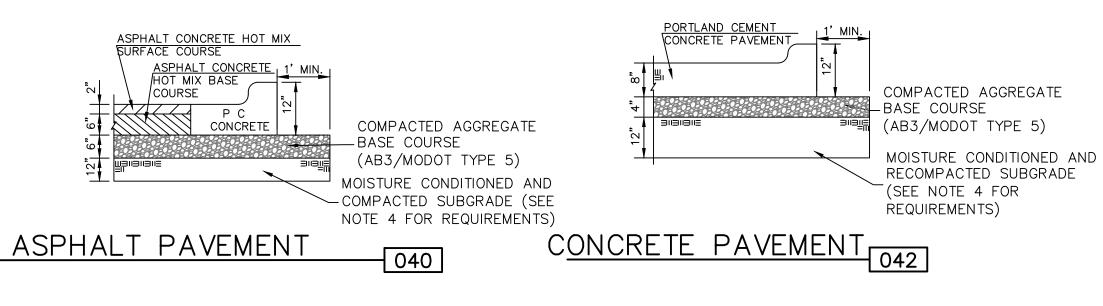
THESE DIMENSIONS WILL BE DESIGNATED ON THE PLANS.

CONSTRUCTION OF THE OVERLAY WILL BE PERFORMED IN ACCORDANCE WITH APWA SPECIFICATIONS:

B. TYPES OF CUTS TO BE MADE BY MILLING:

SEE DETAIL 040 FOR SURFACE MIX.

EXCEED 1 INCH (2.54 cm) UNLESS OTHERWISE APPROVED BY THE ENGINEER.

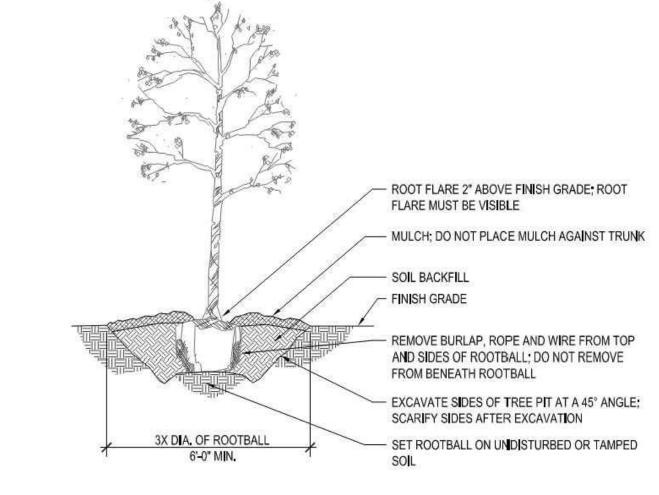


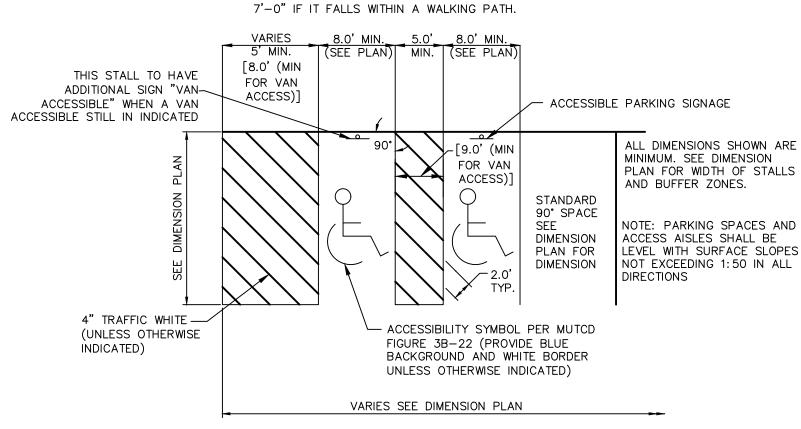
1. FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST (FEBRUARY 2017) EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200 AS AMENDED BY PROJECT SPECIFICATIONS.

ASPHALT SURFACE COURSE - APWA TYPE 3-01 ASPHALT BASE COURSE - APWA TYPE 2-01

- 2. RECYCLED MIXES MEETING APWA SPECIFICATIONS ARE ACCEPTABLE FOR BOTH BASE AND SURFACE COURSES.
- 3. PORTLAND CEMENT CONCRETE SHALL BE A KCMMB4K MIX AND SHALL MEET THE LATEST EDITION OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA SECTION 2200.
- 4. ONSITE CLAY SOILS SHALL BE STABILIZED WITH 5% PORTLAND CEMENT AS OUTLINED IN THE GEOTECHNICAL REPORT

PAVING DETAILS





THIS SIGN TYPICAL AT -

THIS SIGN TYPICAL AT ALL -

VAN-ACCESSIBLE PARKING

"VAN ACCESSIBLE" MAY BE

INCORPORATED INTO BASE

MISSOURI SPECIFIC 12"x6"

HANDICAP PARKING SIGN

ALL ACCESSIBLE PARKING SPACES

SPACES.

MUTCD SIGN.

"\$50-\$300 FINE"

4000 P.S.I. —

P.C. CONCRETE

(SEE NOTE FOR

APPLICABILITY)

(SEE SPECIFICATIONS)

RESERVED PARKING

ACCESSIBLE

\$50-\$300

1'-6"

ACCESSIBLE PARKING SIGN

HEIGHT ABOVE GRADE FOR POLE MOUNTED SIGNS VARIES. TYPICAL INSTALLATION IS 5'-0" ABOVE GRADE. SIGN SHALL BE MOUNTED AT

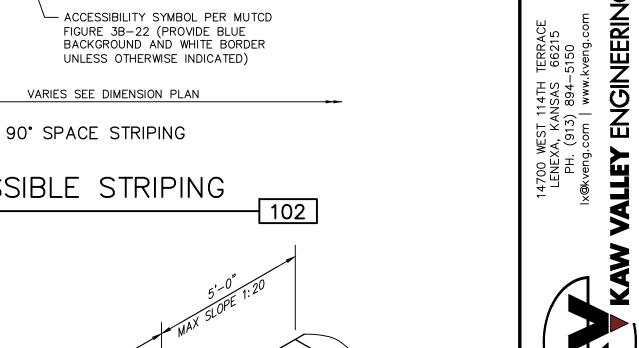
"U"-CHANNEL

-6" PIPE BOLLARD PAINTED TO MATCH BUILDING COLORS (COORDINATE WITH ARCHITECT),

FILLED WITH CONCRETE. (SEE

NOTE FOR APPLICABILITY)

(3-LBS/FT)



SIDEWALK RAMPS 060

WHEN VAN-ACCESSIBLE

SPACE IS ADJACENT TO

BUILDING, SIGN MAY BE

MOUNTED TO BUILDING.

DIMENSIONS AS SHOWN

AND PER FEDERAL CODE.

CONCRETE BASE MAY BE

OMITTED IF SIGN IS MORE

COORDINATE WITH OWNER

FACE PER SAME

PIPE BOLLARD AND

THAN 2'-0" FROM

PARKING STALL.

DAVID D. WOOD

ENGINEER

MO # 2011037427

64063 ENTS DOCUM TION

C23_1880
DESIGNER DRAWN BY DDW 1880DET SHEET

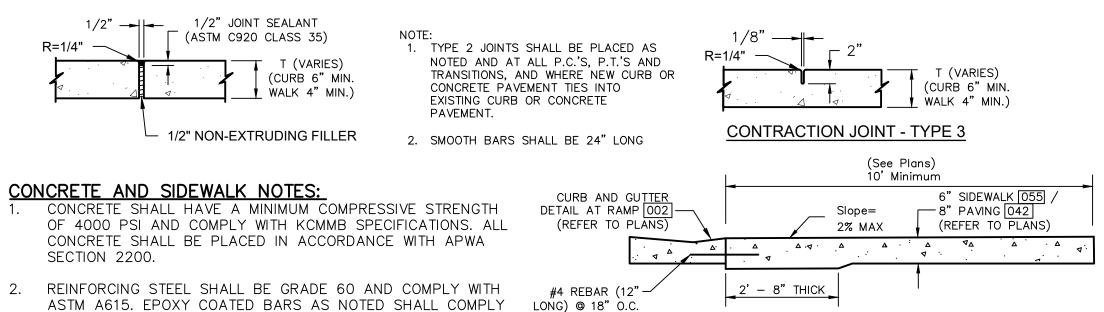
ACCESSIBLE STRIPING ISOMETRIC OF RAMP WITH LANDING

TREE PLANTING DETAIL

ISOMETRIC OF RAMP WITH LANDING

Install 12" tie bars #4 epoxy coated

@18" o.c. and through wings as shown.



c. MATERIAL DISPOSAL: THE MATERIAL WITHDREW BY THE MACHINE SHALL BE REMOVED FROM THE SURFACE OF THE PAVEMENT AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

a. LEVELING: SUFFICIENT PASSES SHALL BE MADE SUCH THAT ALL IRREGULARITIES OR HIGH SPOTS ARE ELIMINATED, AND THAT 100% OF THE SURFACE IS MILLED.

d. SURFACE CONDITIONS: THE DRUM LACING PATTERNS SHALL PRODUCE A SMOOTH SURFACE AFTER MILLING WITH GROOVE DEPTHS NOT TO EXCEED 1/4 INCH (0.64 cm) AND GROOVE SPACING NOT TO

b. AVERAGE DEPTH: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH OVER THE ENTIRE STREET SECTION. THESE DEPTHS WILL BE DESIGNATED ON THE PLANS.

C. CLEANUP: ALL LOOSE ASPHALT AND DEBRIS SHALL BE REMOVED FROM THE STREET SURFACE AND CURB AND GUTTER. ANY MATERIAL AND DEBRIS THAT ADHERES TO THE CURB AND GUTTER SHALL BE

MEASURED DENSITY OF THE COMPLETED OVERLAY SHALL HAVE A COMPACTED DENSITY OF 92% TO 97% OF THE DAILY THEORETICAL MAXIMUM SPECIFIC GRAVITY (GMM) OF THE MIX SUPPLIED TO THE PROJECT.

AREAS OF THE PAVEMENT SURFACE ON THE DRIVES AND PARKING LOTS THAT ARE SHOWN TO HAVE SEGREGATION UPON COMPLETION OF FINAL ROLLING SHALL RECEIVE AN ADDITIONAL SURFACE TREATMENT TO CLOSE THE SURFACE VOIDS. THE SURFACE TREATMENT SHALL CONSIST OF MANUFACTURED SAND COATED WITH SS-1H EMULSION WORKED INTO THE SURFACE VOIDS TO YIELD A UNIFORM APPEARING SURFACE.

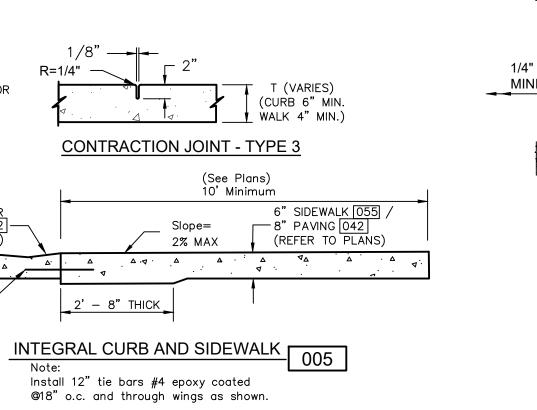
CRACKS: AFTER SURFACE MILLING DETERIORATED (FATIGUE CRACKED OR RAVELED) BLOCK CRACKS AND TRANSVERSE CRACKS THAT HAVE A WIDTH GREATER THAN 1.5-INCHES SHALL BE MILLED OR MECHANICALLY ROUTED OUT TO A MINIMUM DEPTH OF 2-INCHES AND PATCHED WITH A HOT MIX ASPHALT PRIOR TO OVERLAY. UNDETERIORATED PAVEMENT CRACKS WITH WIDTHS BETWEEN 1.5-INCHES AND 0.25-INCHES WIDE SHALL BE BLOWN OUT WITH PRESSURIZED AIR OR CLEANED AND DRIED PRIOR TO FILLING WITH AN APPROVED CRACK SEALING MATERIAL SUCH AS CRAFCO ROADSAVER 514, 515, PARKING LOT SEALANT TYPE 1 OR APPROVED

CURB CUT: SUFFICIENT PASSES, OR CUTS, SHALL BE MADE IN ORDER TO REMOVE A SPECIFIED DEPTH AT THE CURB FOR A SPECIFIED WIDTH. THE DEPTH AT THE WIDTH FURTHEST FROM THE CURB IS 0.

- SHALL BE FIELD REPAIRED WITH EPOXY COATING. 3. SIDEWALKS TO BE BROOM FINISHED.
- SUBGRADE TO BE COMPACTED TO 90% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. MOISTURE CONTENT TO BE WITHIN A RANGE OF 2% BELOW TO 2% ABOVE OPTIMUM MOISTURE AS DEFINED BY ASTM D698.

WITH ASTM A775. ALL CUT ENDS OR DAMAGED AREAS

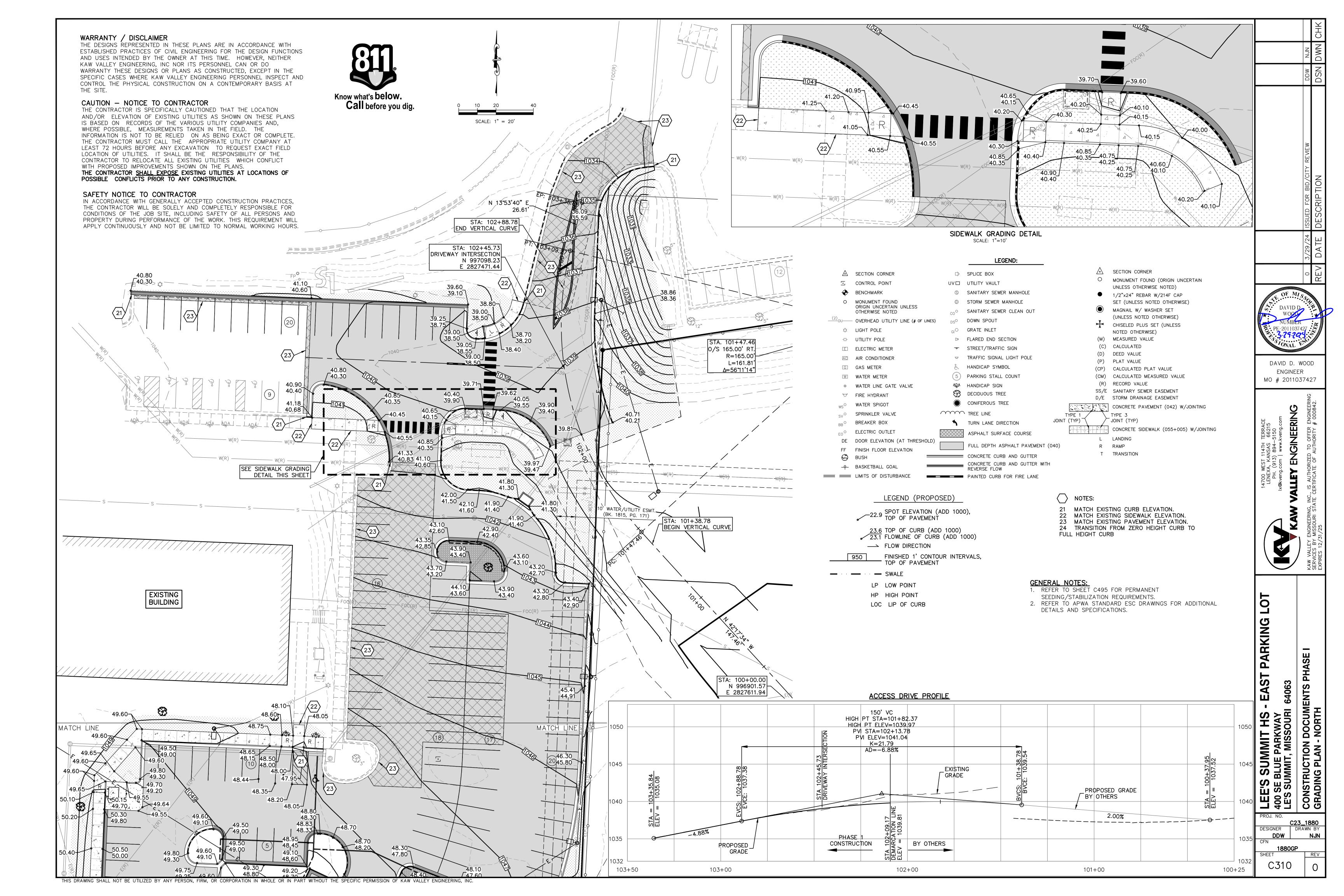
SIDEWALK JOINTS MAY BE SAWN UNLESS SHOWN OTHERWISE ON ARCHITECT/LANDSCAPE ARCHITECT PLANS.

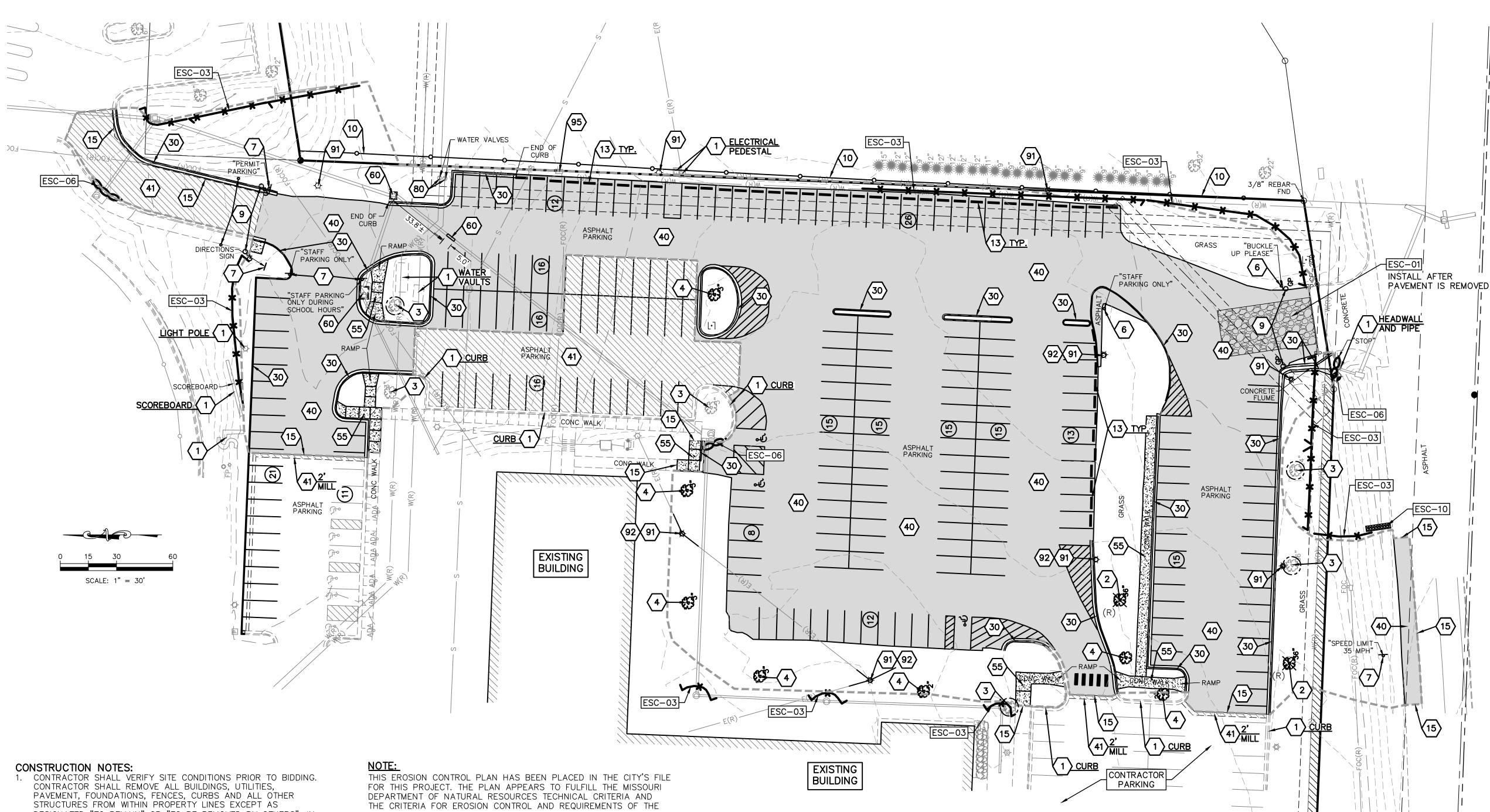


1/4" THICKNESS PRE MOLDED EXPANSION JOINT FILLER SPACED @ 100' CNTRS. MINIMUM AND LOCATED AT SIDEWALK TURNS, CURBS OR SIMILAR STRUCTURES. WALK 4" TYP **SECTION A-A** - 4" COMPACTED AGGREGATE BASE COMPACTED SUBGRADE (SEE GRADING PLAN) SEE SITE PLAN CROSS SLOPE 2% MAX (REF. DETAIL | 005 |) TYP A . A . A SECTION B-B **CONCRETE SIDEWALK**

PLAN VIEW

1. CONTRACTOR SHALL BACKFILL SIDEWALKS WITH TOPSOIL AND SEED/SOD IN ACCORDANCE WITH LANDSCAPE PLAN AND PROJECT SPECIFICATIONS.





DESIGNATED "TO REMAIN" OR "TO BE REMOVED BY OTHERS", IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF LEE'S SUMMIT AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF FEBRUARY 19, 2024.

- 2. ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE REGULATIONS.
- 3. DRIVES, PAVING AND OTHER STRUCTURES ON STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS SHOWN ON THESE PLANS. REMOVAL AND DISPOSAL SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 4. ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 5. COORDINATE ELECTRICAL DEMO WITH E SERIES SHEETS.

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

1. REFER TO SHEET C495 FOR PERMANENT SEEDING/STABILIZATION REQUIREMENTS.

2. REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

<u>DESCRIPTION OF WORK - PRE CONSTRUCTION AND PHASE I:</u>

- OBTAIN REVIEW COMPLIANCE AND APPLICABLE PERMITS. HOLD PRE—CONSTRUCTION CONFERENCE.
- INSTALL PERIMETER EROSION CONTROL MEASURES, INLET PROTECTION DOWNSTREAM OF DEMOLITION AREAS AND TREE PROTECTION FENCING WITHIN CLEARING LIMITS AS APPLICABLE
- SAWCUT AND REMOVE PAVEMENT, FLATWORK AND CURBING AT PERIMETER TIE-INS. COORDINATE WORK WITH LEE'S SUMMIT SCHOOL DISTRICT (LSSD). MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC
- ACCESS TO CAMPUS AS DIRECTED BY LSSD. PROVIDE STABILIZED CONSTRUCTION INTO WORK AREA AS REQUIRED.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

DEMOLITION

1 TO REMAIN.

2 REMOVE TREES/BUSHES/LANDSCAPING/SITE FURNITURE. (COORDINATE WITH PROJECT LANDSCAPE PLAN) TREES TO REMAIN. PROVIDE TREE PROTECTION FENCE AT DRIPLINE. A MINIMUM RADIUS OF 10' FROM 3 TREE SHALL BE PROVIDED ANYWHERE WHERE PORTIONS OF DRIPLINE ARE NOT FENCED OFF, A LAYER

OF MULCH (6" MINIMUM) SHALL BE PROVIDED TO PROTECT ROOT SYSTEM FROM DAMAGE.

- 4 RELOCATE SMALL CALIPER TREES. SEE SHEET C100.
- 6 SIGN TO BE REMOVED
- 7 SIGN TO BE RELOCATED
- 9 BOLLARD/SWING GATE TO BE REMOVED. BACKFILL AND COMPACT FOOTINGS.
- 10 REMOVE CHAINLINK FENCE AND POST. BACKFILL AND COMPACT FOOTINGS.
- 13 CONCRETE WHEEL STOP TO BE REMOVED.
- SAW CUT LINE (FOR CONCRETE SAW CUT AT NEAREST CONTROL JOINT. FOR ASPHALT SAW CUT MINIMUM OF 6" FROM NEW CURB LINE). SEE SHEET C100 AND C200 FOR LIMITS.
- CONTRACTOR TO REMOVE CONCRETE CURBS TO CONSTRUCT IMPROVEMENTS. SEE SHEET C100 AND C200 FOR LIMITS.
- 40 CONTRACTOR TO REMOVE ASPHALT PAVING AS REQUIRED TO CONSTRUCT IMPROVEMENTS.
- CONTRACTOR TO MILL ASPHALT SURFACE, MINIMUM 2' OUTSIDE ASPHALT REMOVAL. REFER TO C100 AND C200 SHEETS FOR LIMITS. REFER TO SECTIONS A-A AND B-B ON SHEET C190.
- 55 CONTRACTOR TO REMOVE CONCRETE PAVING AND WALKS.
- CONTRACTOR TO MODIFY, REMOVE AND/OR REROUTE STORM SEWER OR STRUCTURE. REFER TO C600 SHEETS FOR ADDITIONAL INFORMATION.
- 80 CONTRACTOR TO RESET EXISTING WATER VALVES TO GRADE. SEE SHEET C310. 91 REMOVE SITE LIGHTING REFER TO SITE ELECTRICAL PLAN. COORDINATE WITH EVERGY AS APPLICABLE.
- 92 REMOVE FIXTURE AND SALVAGE FOR REINSTALL.
- 95 CONTRACTOR TO MODIFY EXISTING FIBER OPTICS VAULT TO MEET NEW GRADE. SEE SHEET C310.

FOR THE FOLLOWING DETAILS REFER TO THE KC METROPOLITAN CHAPTER ADOPTED DIVISION III APWA STANDARD DRAWINGS FOR EROSION AND

ESC-01 CONSTRUCTION ENTRANCE ESC-03 SEDIMENTATION FENCE ESC-06 CURB INLET PROTECTION ESC-10 ROCK DITCH CHECKS

SEDIMENT CONTROL (2017 VERSION) ON SHEETS C490 AND C495.

LW LOWEST WIRE HEIGHT E ELECTRIC METER UNDERGROUND ELECTRIC PEDESTAL ■ SPEAKER BOX BBC BREAKER BOX ——G(R)—— UNDERGROUND GAS PER RECORD ——S(R)—— SANITARY SEWER LINE PER RECORD ---D(R)--- STORM SEWER LINE PER RECORD ASPHALT PAVING TO BE REMOVED

LEGEND:

→ STREET/TRAFFIC SIGN

ADA HANDICAP SIGN HRMP HANDICAP RAMP

■■■ WHEEL STOP

→ PAINTED DIRECTIONAL ARROW TURN LANE DIRECTION HANDICAP SYMBOL PARKING STALL COUNT

-FOC- UNDERGROUND FIBER OPTIC CABLE

SANITARY SEWER CLEAN OUT

—E(R)—— UNDERGROUND ELECTRIC PER RECORD

WALL MOUNTED ELECTRICAL OUTLET

TELEPHONE PEDESTAL S SANITARY SEWER MANHOLE

AREA INLET CIO CURB INLET

DSO DOWN SPOUT FLOOR DRAIN > FLARED END SECTION ----s--- SANITARY SEWER LINE

----- STORM SEWER LINE

AIR CONDITIONER

——G—— UNDERGROUND GAS G GAS METER GAS VALVE GAS RISER GAS LINE SIGN

W WATER METER

♥ FIRE HYDRANT

WATER MANHOLE

SVO SPRINKLER VALVE

☑ CANOPY SUPPORT

DECIDUOUS TREE CONIFEROUS TREE

T/E TRASH ENCLOSURE L/S LANDSCAPING AREA

VCP VITRIFIED CLAY PIPE

DIP DUCTILE IRON PIPE

——E—— UNDERGROUND ELECTRIC

HDPE HIGH DENSITY POLYETHYLENE

OVERHEAD UTILITY LINE (# OF LINES)

■ UTILITY POLE W/ TRANSFORMER

WALL MOUNTED LIGHT

WALL MOUNTED CAMERA

.;□ UTILITY POLE W/ LIGHT

----W(R)---- WATER LINE PER RECORD

---- CONCRETE JOINT/CUT LINE

MBO MAIL BOX

🕰 BUSH

TREE LINE FP FLAG POLE

CONC CONCRETE

P PULL BOX

□ LIGHT POLE

← GUY ANCHOR

□ UTILITY POLE

STORM SEWER MANHOLE

CMP CORRUGATED METAL PIPE RCP REINFORCED CONCRETE PIPE

~ _950 — EXISTING GRADE 5' CONTOUR -- 939 -- EXISTING GRADE 1' CONTOUR

WATER LINE GATE VALVE

SPRINKLER CONTROL BOX

SIAMESE FIRE CONNECTOR

—FOC(R)— UNDERGROUND FIBER OPTIC (FROM RECORDS)

BENCHMARK GPO GATE POST ──── CHAIN LINK FENCE ----- WOOD FENCE BOLLARD

AREA TO BE MILLED

CONCRETE PAVING/SIDEWALKS TO BE REMOVED

EROSION & PROPOSED IMPROVEMENTS LEGEND:

1218 PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)

GRAVEL FILTER BAGS AND INLET PROTECTION (ESC-06 & ESC-07) OTPF FENCE (OTPF) SEDIMENTATION FENCE (ESC-03)

LIMITS OF DISTURBANCE

INDICATES TREE/SHRUB TO BE REMOVED CONSTRUCTION ENTRANCE AND STAGING (ESC-01)

ROCK DITCH CHECK (ESC-10)



DAVID D. WOOD ENGINEER MO # 2011037427 ENGINEERING ARKIN

E'S SUMMI SE BLUE PAR SUMMIT, MIS

DESIGNER DRAWN E

DDW

1880DEMO SHEET

C400

⊗ N E

Storm Sewer Calculations 3-5-2024
Lee's Summit School District - LSHS Southeast Parking Lot
KVE Project # C23D1880

												_							,																
	Overland Flow						System Flow				Node Pipe Design																								
KVE	Design Storm (years)	Structure	Downstream	Pipe	Tributary Area, A (ac)	Impervious Area (ac)	Runoff Coefficient C	Antecedent Precipitation (K)	A x C (ac)	Concentration, Tc (min) Rainfall Intensity (in/hr)	Tributary Runoff (cfs)	Total Area, A (ac)	Summation of Inlet A x C (ac)	Antecedent Precipitation (K)	System Tc (min)	System Rainfall Intensity (in/hr)	System Discharge (cfs)	Node Condition	Pipe Material	Pipe Shape	Pipe Size, D (in)	Manning's Coefficient	Upstream Invert (ft)	Downstream Invert (ft)	Length (ft)	Pipe Slope	Design Flow (cfs)	Full Flow Capacity (cfs)	Full Flow Velocity (fps)	Flow Time (sec)	Upstream Crown Elevations	Downstream Crown Elevations	Upstream Depth of Cover	Downstream Depth of Cover	Rim Elevation
ate	10-year 100-year	А3	A2	A3 - A2	0.41	0.41	0.90	1.25	0.37	5.0 7.4 10.3	2.7 4.8	0.41	0.37	1.25	5.0	7.4 10.3	2.7 4.8	Non Setback Curb Inlet	HDPE	Circular	15	0.012	1042.70	1041.30	131.0	1.07%	2.7 4.8	7.2	5.9	22.2	1044.0	1042.6	2.8	3.0	1,046.70
Priv	10-year 100-year	A2	A1	A2 - A1	1.00	0.89	0.83	1 1.25	0.83	5.0 7.4 10.3	6.1 10.8	1.41	1.20	1 1.25	5.2	7.3 10.2	8.8 15.4	Non Setback Curb Inlet	HDPE	Circular	18	0.012	1040.80	1039.90	84.0	1.07%	8.8 15.4	11.8	6.7	12.6	1042.3	1041.4	3.2	0.6	1,045.50
hase																																			
Lot - F	10-year 100-year	B2	B1	B2 - B1	0.59	0.19	0.49	1.25	0.29	5.0 7.4 10.3	2.1 3.8	0.59	0.29	1.25	5.0	7.4 10.3	2.1 3.8	. Temporary Culvert	RCP	Circular	15	0.013	1040.00	1039.20	72.0	1.11%	2.1 3.8	6.8	5.5	13.0	1041.3	1040.5	0.0	0.0	
rking m Sev																																			
ast Pa Stor	10-year 100-year	Cl#17010	C1	C#17010 - C1	0.18	0.14	0.77	1 1.25	0.14	5.3 7.3 10.2	1.0 1.8	0.92	0.63	1 1.25	7.0	6.8 9.6	4.3 7.5	Existing Curb Inlet	HDPE	Circular	15	0.012	1038.65	1033.50	175.5	2.93%	4.3 7.5	12.0	9.8	18.0	1039.9	1034.8	8.6	7.0	1,048.46
m it E	10-year 100-year	C1	JB#17519	C1 - JB#17519	0.56	0.51	0.85	1.25	0.47	5.0 7.4	3.5 6.1	1.48	1.10	1 1.25	7.1	6.8 9.5	7.5 13.2	Non Setback Curb Inlet	HDPE	Circular	15	0.012	1033.50	1032.36	37.9	3.01%	7.5 13.2	12.1	9.9	3.8	1034.8	1033.6	7.0	7.6	1,041.80
S Sum	10-year 100-year	JB#17519	AI #17454	JB#17519 - AI #17454								1.78	1.37	1 1.25	7.2	6.7 9.5	9.3 16.3	Junction Box (Adjust Rim)	HDPE	Circular	18	0.012	1031.93	1024.90	133.8	5.25%	9.3 16.3	26.1	14.8	9.1	1033.4	1026.4	7.8	1.9	1,041.20
Lee'	10-year 100-year	Al#17454	AI #17454	Al#17454 - Al #17454	0.16	0.00	0.30	1 1.25	0.05	7.2 6.7 9.5		2.68	1.97	1 1.25	7.3	6.7 9.5	13.2 23.3	Area Inlet	RCP	Circular	18	0.013	1024.66	1021.24	129.0	2.65%	13.2	17.1	9.7	13.3	1026.2	1022.7	2.2	2.6	1,028.32

	10-year	Upstream Cl#17010	Cl#17010	Upstream Cl#17010 - Cl#17010	0.74	0.45	0.66	1	0.49	7.0	6.8	3.3
٤ _	100-year	Opstream Ci#17010	01#17010	Opstream Ci#17010 - Ci#17010	0.74	0.43	0.00	1.25	0.43	7.0	9.6	5.9
rea	10-year	Upstream System JB	JB#17159	Upstream System JB #17159 -	0.30	0.30	0.90	1	0.27	5.2	7.3	2.0
lpstı Sys	100-year	#17159	130#17139	JB#17159	0.50	0.50	0.90	1.25	0.21	5.2	10.2	3.5
7 °	10-year	Cl#10386	Al#17454	Cl#10386 - Al#17454	0.74	0.54	0.74	1.5	0.55	6.2	7.0	5.7
	100-year	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AI#17454	CI#10300 - AI#17434	0.74	0.54	0.74	1.75	0.55	0.2	9.8	9.4

T_C Calculations 3-5-2024

Lee's Summit School District - LSHS Southeast Parking Lot

KVE Project # C23D1880

				1	Time of	Conce	ntratio	n					
Structure	Pipe	Design Storm (years)	Tributary Area, A (ac)	Impervious Area	Runoff Coefficient, C	Total Distance	D1	Slope	Inlet Time (min)	D2	Travel Time (min)	Time of Concentration (min)	Notes
А3	A3 - A2	10-year 100-year	0.41	0.41	0.90	210	100	1.8	3.0	110	0.2	3.1	5 Min Minimum
A2	A2 - A1	10-year 100-year	1.00	0.89	0.83	255	100	2.0	3.8	155	0.3	4.1	5 Min Minimum
B2	B2 - B1	10-year 100-year											
Cl#17010	CI#17010 - C1	10-year 100-year	0.18	0.14	0.77	130	100	1.5	5.2	30	0.1	5.3	
C1	C1 - JB#17519	10-year 100-year	0.56	0.51	0.85	330	100	1.5	4.0	230	0.4	4.4	5 Min Minimum
JB#17519	JB#17519 - AI #17454	10-year 100-year											
Al#17454	Al#17454 - Al #17454	10-year 100-year	0.16	0.00	0.30	120	100	8.0	7.2	20	0.0	7.2	

.....

WARRANTY / DISCLAIMER
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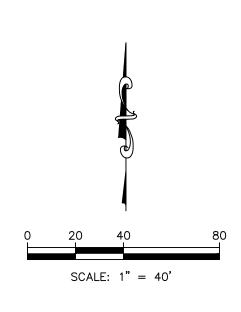
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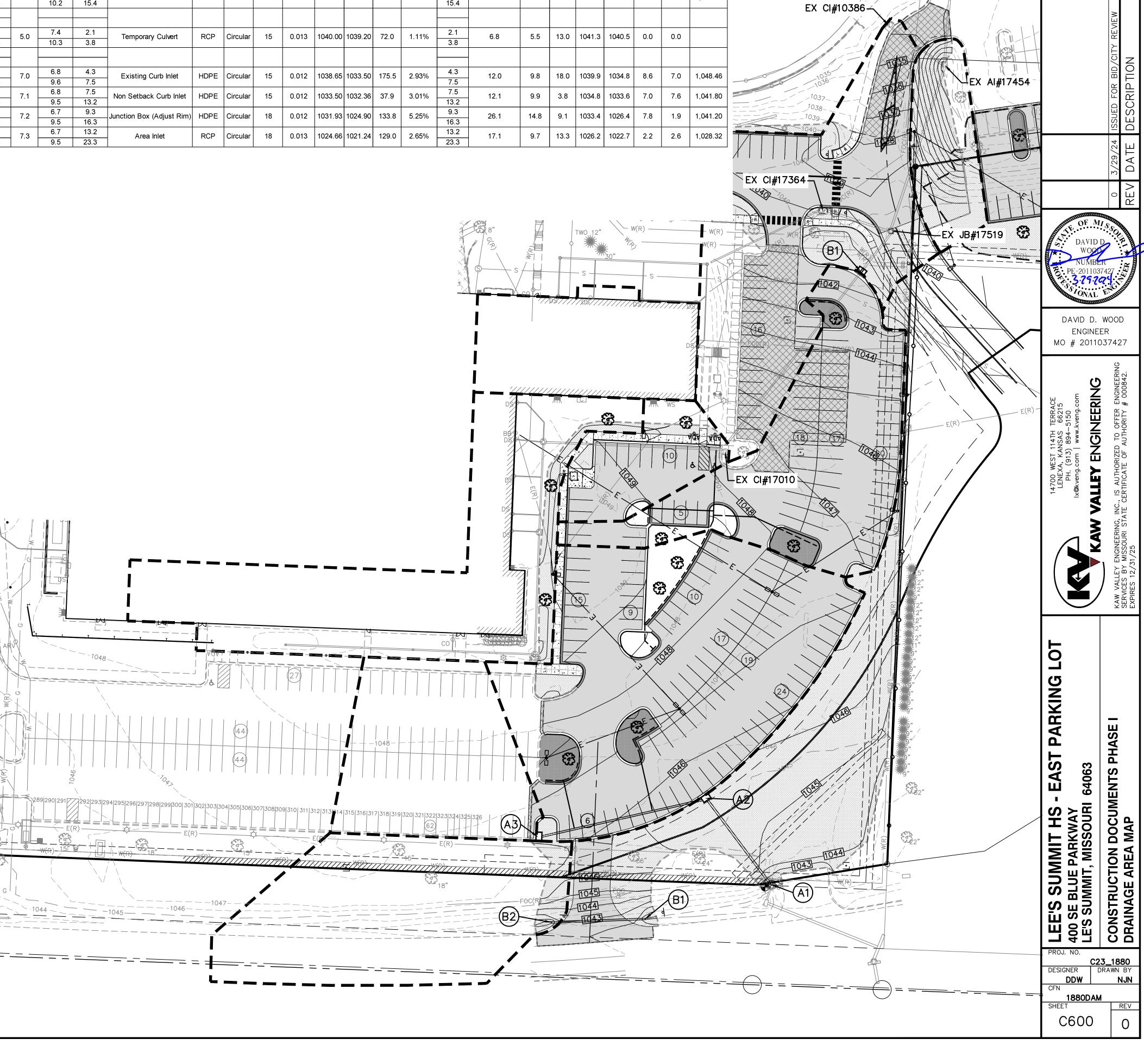
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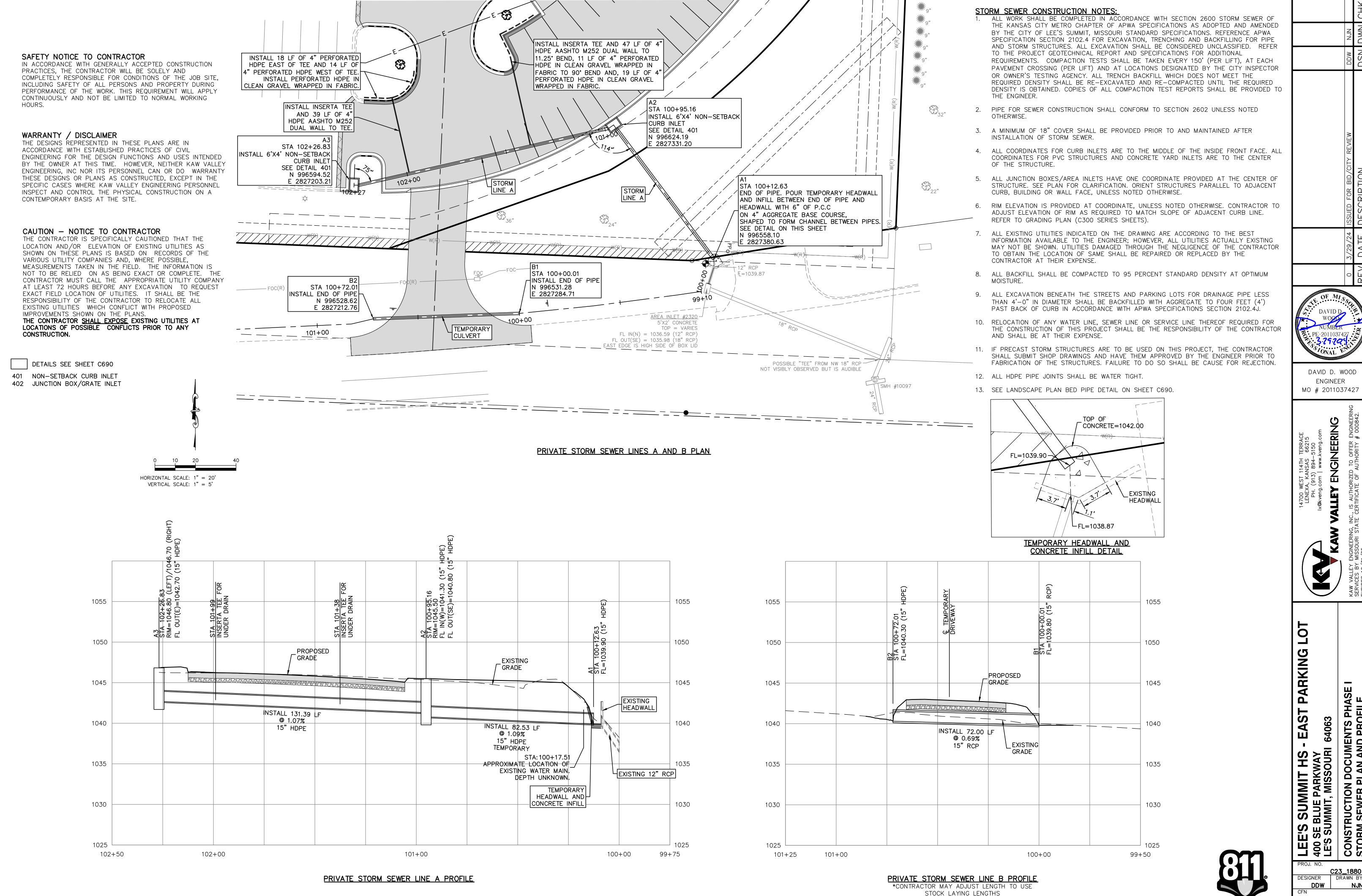
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EX AI#14615



Know what's below.

DAVID D. WOOD

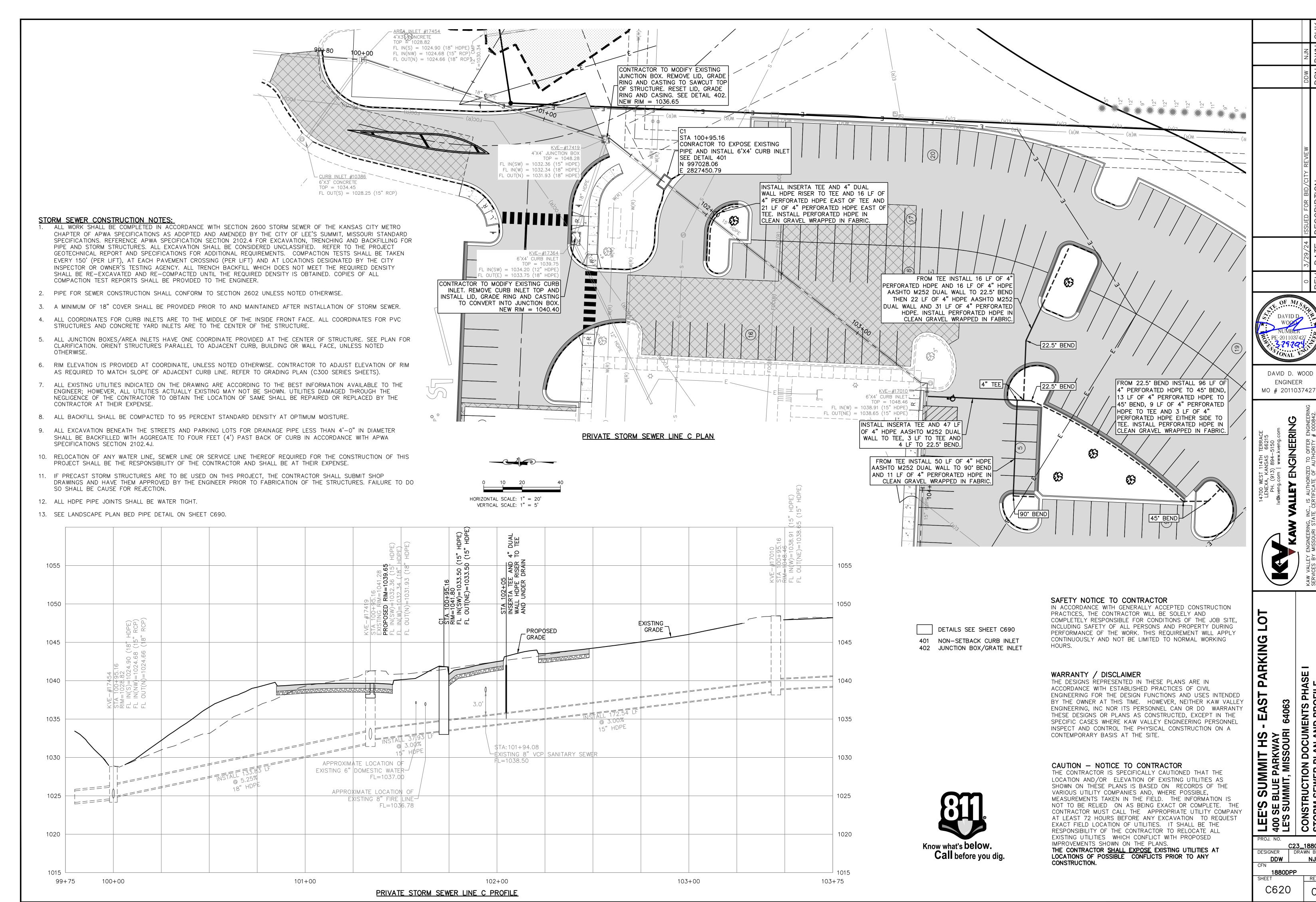
ENGIN

CONSTRUCTION DOCUMENTS PHASE STORM SEWER PLAN AND PROFILE

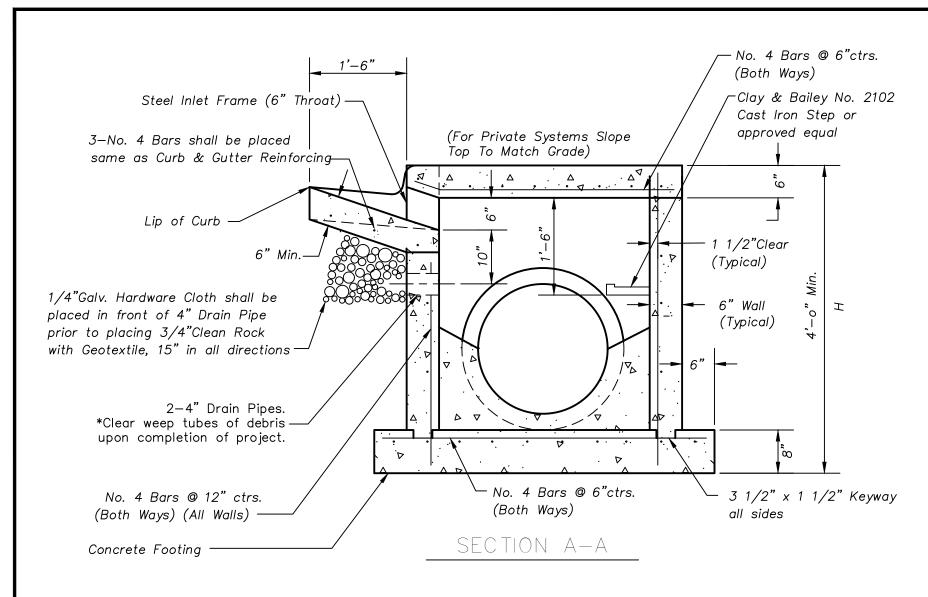
DDW

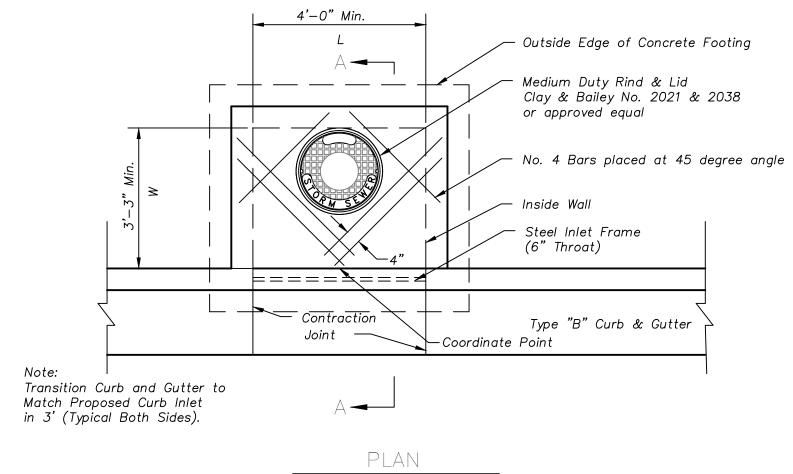
C610

ENGINEER



CONSTRUCTION DOCUMENTS STORM SEWER PLAN AND PRO





JUNCTION BOX YARD INLETS AND CURB INLET NOTES

GENERAL

1. ALL STORM SEWER STRUCTURES SHALL BE PRE-CAST OR POURED IN PLACE. IF PRE-CAST STRUCTURES ARE USED FOR PUBLICLY FINANCED, MAINTAINED OR ADMINISTERED CONSTRUCTION, THE TOPS SHALL BE POURED IN PLACE AND THE WALL STEEL SHALL BE LEFT EXPOSED TO A HEIGHT 2" BELOW THE FINISH TOP ELEVATION, OR AS DIRECTED BY THE CITY ENGINEER.

NON-SETBACK CURB INLET

USE STEEL INLET FRAME WITH 6" THROAT PARKING LOTS ONLY

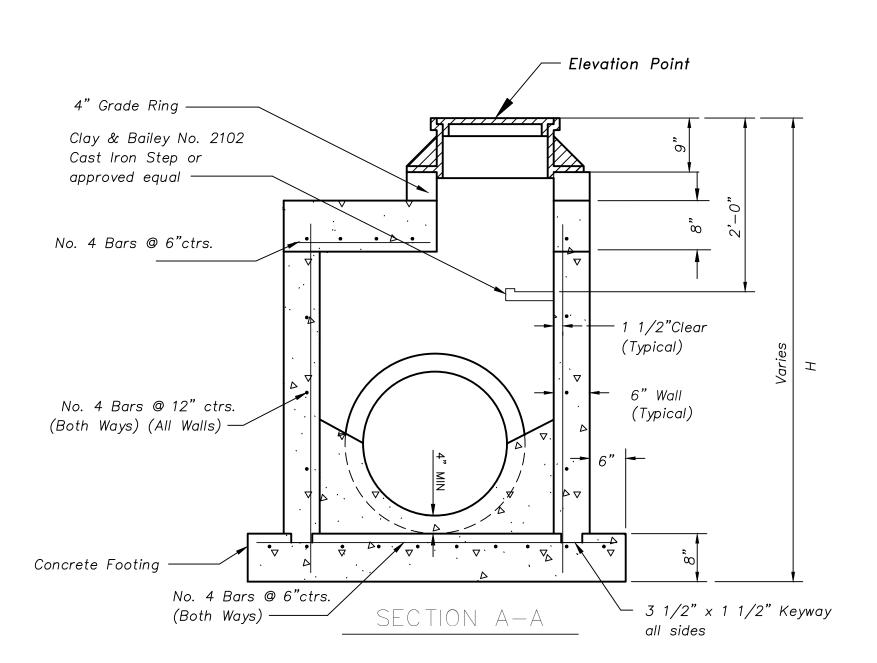
- 2. PRE-CAST SHOP DRAWINGS ARE TO BE APPROVED BY THE ENGINEER.
- 3. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
- 4. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L"+"H") AND ("W"+"H") LESS THEN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED. PRECASTER SHALL PROVIDE DESIGN CALCULATIONS FOR DEEP STRUCTURES TO ENGINEER PRIOR TO CONSTRUCTING BOX.

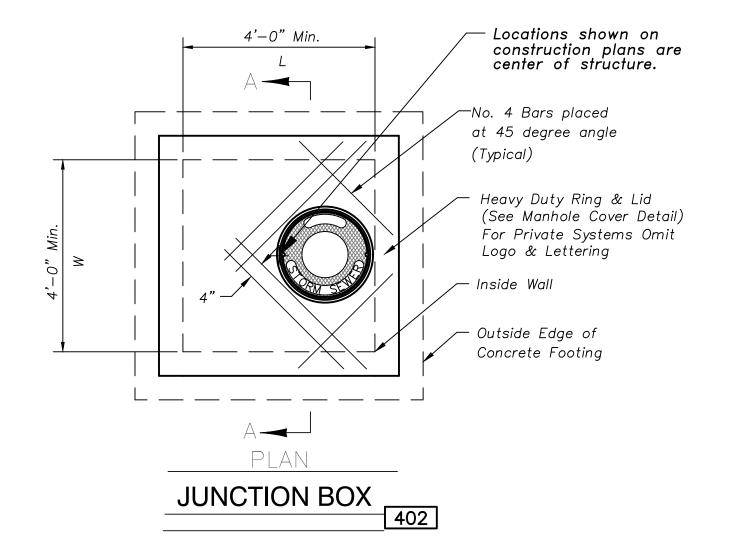
CONCRETE

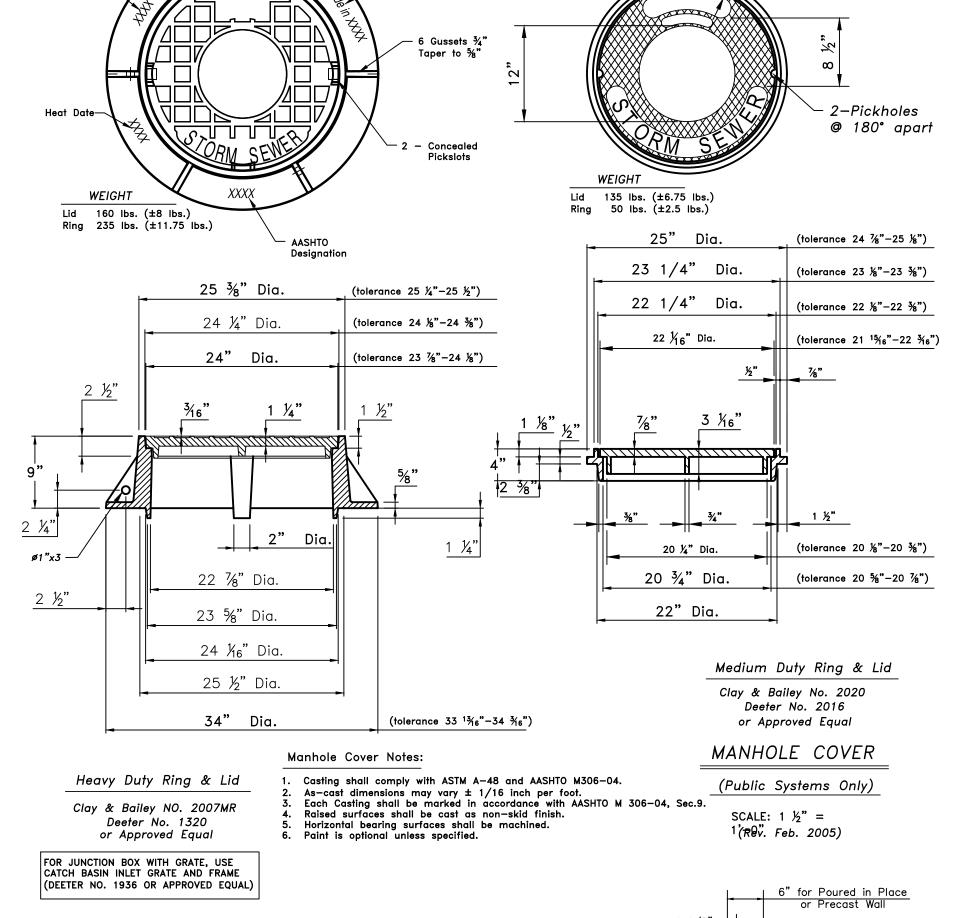
- 5. CONCRETE USED IN THIS WORK SHALL BE CLASS "A" CONCRETE (AE) THROUGHOUT, AND SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPÉCIFICATIONS.
- 6. CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR MCIB, LATEST EDITION, EXCEPT AS MODIFIED IN THE APWA TECHNICAL SPECIFICATIONS.
- 7. INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERTS TO PROVIDE SMOOTH FLOW.
- 8. BEVEL ALL EXPOSED EDGES WITH $\frac{3}{4}$ " TRIANGULAR MOLDING.
- 9. 8" SOLID CONCRETE BLOCK OR BRICK MAY BE USED IN WALLS IN LIEU OF POURED CONCRETE WHERE NEITHER "H"+"L" NOR "H"+"W" (IN FEET) EXCEED FOURTEEN. BLOCK OR BRICK MAY BE USED IN ANY BOX WHERE "H" IS 5' OR LESS.
- 10. ALL CRUSHED STONE USED AS AGGREGATE FOR CONCRETE CONSTRUCTION SHALL BE OBTAINED FROM QUARRIES AND BEDS DESIGNATED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION AS MEETING DURABILITY REQUIREMENTS OF KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.

REINFORCING STEEL

- 11. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
- 12. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF $+/-\frac{1}{2}$ " SHALL BE PERMITTED.
- 13. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
- 14. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- 15. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE. CONSTRUCTION
- 16. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
- 17. PIPE CONNECTIONS TO PRE-CAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2" OF THE STRUCTURE.
- 18. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.

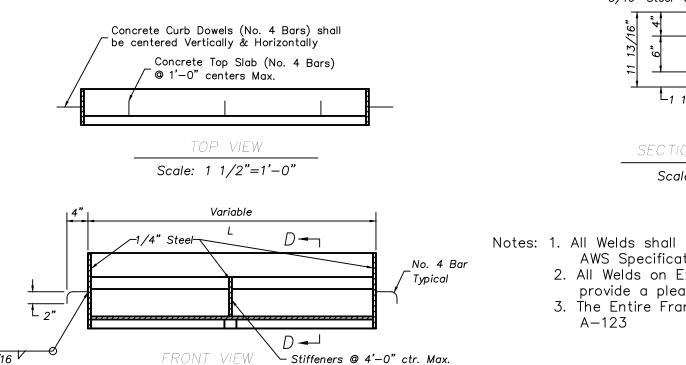






− 3 Lifting Holes © 120° Apart

Manufacture



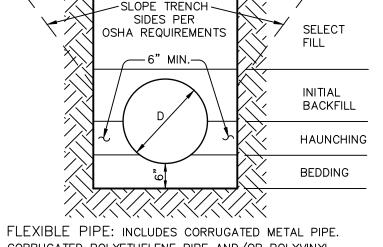
Scale: 1 1/2"=1'-0"

3/16" Steel → No. 4 Bar $1/2 \times 1 1/2 \times 1/4 \times 0 - 2$ Typical @ Stiffeners SECTION D-D (6" WALL) Scale: 1 1/2"=1'-0"

Notes: 1. All Welds shall be performed in accordance with appropriate AWS Specifications & Procedures. 2. All Welds on Exposed Surfaces shall be dressed so as to provide a pleasing finished appearance. 3. The Entire Frame shall be Hot Dip Zinc in Accordance ASTM

STEEL INLET FRAME (6" AND 10" THROAT)

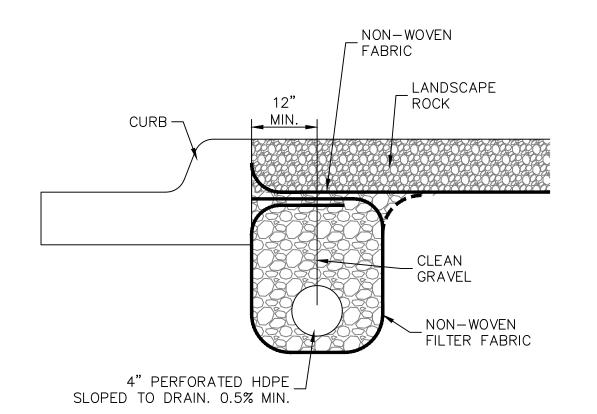
use 6" with non-setback curb inlet/area inlet USE 10" WITH SETBACK CURB INLET



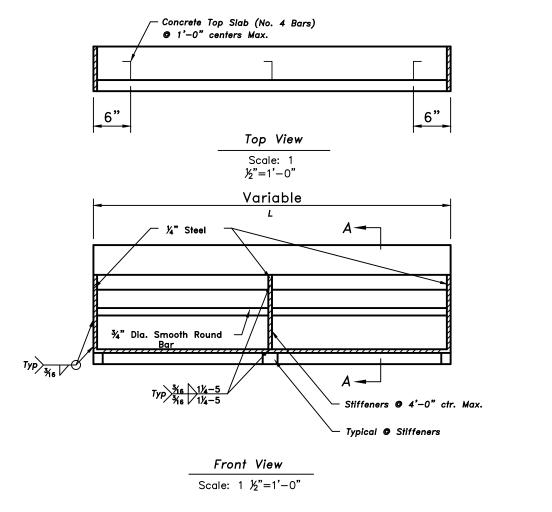
CORRUGATED POLYETHELENE PIPE AND/OR POLYVINYL CHLORIDE PIPE.

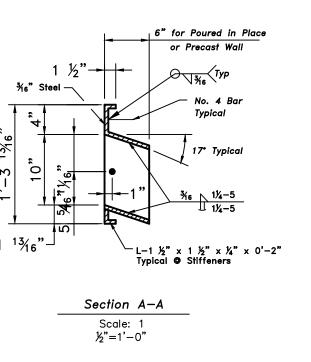
- 1. BEDDING SHALL BE COMPACTED CRUSHED STONE AND SHALL BE SHAPED TO THE BOTTOM OF THE PIPE.
- HAUNCHING AND INITIAL BACKFILL MATERIAL SHALL BE CLASS I OR II (REF. ASTM D2321) GRANULAR MATERIAL AND SHALL BE COMPACTED TO 95% STANDARD PROCTOR.

TRENCH AND BEDDING DETAILS REFER TO KANSAS CITY METROPOLITAN CHAPTER OF APWA SPECIFICATIONS SECTION 2102.4



LANDSCAPE BED DETAILS





DOCUM ETAILS E'S SUMMIT | SE BLUE PARKW SUMMIT, MISSO CONSTRUCTION D STORM SEWER DE LEE 400 S C23_1880
DESIGNER DRAWN BY DDW 1880DET SHEET

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EAS

DAVID D. WOOD

ENGINEER

MO # 2011037427

ENGINEERING

OFFER EN HORITY #

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC

PRELIMINARY PENDING FINAL DESIGN FOR BLUE PARKWAY

Sheet List Table

COOO OVERALL SITE PLAN

C100 SITE AND DIMENSION PLAN

C190 SITE AND EROSION CONTROL DETAILS

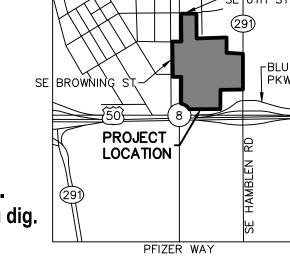
C200 DEMOLITION & EROSION CONTROL PLAN PH C300 GRADING & EROSION CONTROL PLAN PH II

E-400 ELECTRICAL SCHEDULES AND DETAILS

E-001 ELECTRICAL GENERAL NOTES AND LEGEND E-101 ELECTRICAL SITE PLAN PHASE 2



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



VICINITY MAP SEC 8 - TWP 47N - RNG 31W NOT TO SCALE

CONSTRUCTION NOTES:

- CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE KANSAS CITY METROPOLITAN CHAPTER OF APWA STANDARD SPECIFICATIONS AS
- ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE
- MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO PUBLIC RIGHT—OF—WAYS IN THE CONSTRUCTION AREA. ALL DIMENSIONS SHOWN ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
- ALL TRAFFIC CONTROL DEVICES, INSTALLATION AND OPERATIONS SHALL CONFORM WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

<u> DESCRIPTION:</u> (PER TITLE COMMITMENT)

RACT 1: (MISSOURI WARRANTY DEED, Bk. I-80, Pg. 1904) ALL THAT PART OF LOT 3, MUCKEY ADDITION, A SUBDIVISION OF LAND IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI ACCORDING TO THE RECORDED PLAT THEREOF, LYING SOUTH OF THE SOUTH LINE OF 6TH STREET IN LEE'S SUMMIT. AS SAID STREET IS DESCRIBED IN THE DEED RECORDED IN BOOK

DESCRIPTIONS: (PER TITLE COMMITMENT)

RACT 1: (MISSOURI WARRANTY DEED, BOOK 923, AT PAGE 743)(DEED 1A) ALL OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 1, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, EXCEPT THAT PART CONVEYED TO THE STATE OF MISSOURI BY WARRANTY DEED RECORDED IN BOOK 656 AT PAGE 111 (DEED 1B), AND

ALSO EXCEPT THAT PART THEREOF CONVEYED TO THE STATE OF MISSOURI BY WARRANTY DEED RECORDED IN BOOK 661 AT PAGE 166 (DEED 1C).

ALSO EXCEPT THAT PART THEREOF CONVEYED TO ARTHUR B. MCLENNAN AND PAULINE P. MCLENNAN, HUSBAND AND WIFE BY WARRANTY DEED RECORDED IN BOOK 883 AT PAGE 51 (DEED 1D), AND ALSO EXCEPT A TRACT OF LAND IN SAID SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, SECTION 8, TOWNSHIP 47, RANGE 31 DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 651.69 FEET NORTH OF THE SOUTHEAST CORNER OF THE SAID QUARTER QUARTER SECTION, THENCE WEST 491.69 FEET; THENCE NORTH 63 FEET; THENCE EAST 491.69 FEET TO THE QUARTER SECTION LINE; THENCE SOUTH 63 FEET TO POINT OF BEGINNING.

2: (MISSOURI WARRANTY DEED, BOOK 1243, AT PAGE 716)(DEED 2) ALL OF THE WEST 327 FEET OF THE NORTH 2 ACRES OF THE SOUTH 5 ACRES OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, MORE PARTICULARLY DESCRIBED AS

SCALED AROUND 0,0 BEGINNING AT A POINT 198 FEET NORTH OF THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN JACKSON COUNTY, MISSOURI, AND RUNNING THENCE EAST 327 FEET; THENCE NORTH 132 FEET; THENCE WEST 327 FEET; THENCE SOUTH 132 FEET TO POINT OF BEGINNING.

HE SOUTH 5 ACRES OF THE WEST HALF OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEES' SUMMIT, JACKSON COUNTY, MISSOURI.

[RACT 4: (REPORT OF COMMISSIONERS, BOOK 1484, AT PAGE 306)(DEED 4) ALL OF THE WEST 327 FEET OF THE SOUTH 3 ACRES OF THAT PART OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 8 TOWNSHIP 47, RANGE 31 IN LEE'S SUMMIT, JACKSON COUNTY,

BEGINNING AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER AND RUNNING THENCE EAST 327 FEET; THENCE NORTH 198 FEET; THENCE WEST 327 FEET; THENCE SOUTH 198 FEET TO THE POINT OF BEGINNING.

RACT 5: (MISSOURI WARRANTY DEED, BOOK 1491, AT PAGE 140)(DEED 5) ALL THAT PART OF THE EAST HALF OF THE NORTHWEST QUARTER OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF THE INTERSECTION OF 7TH STREET AND BROWNING AVENUE; THENCE SOUTH ALONG THE EAST LINE OF BROWNING AVENUE A DISTANCE OF 678.52 FEET TO THE NORTH LINE OF 8TH STREET; THENCE EAST ALONG THE NORTH LINE OF 8TH STREET A DISTANCE OF 33 FEET TO THE EAST LINE OF SAID QUARTER SECTION; THENCE NORTH ALONG THE EAST LINE OF SAID QUARTER SECTION A DISTANCE OF 678.52 FEET TO THE NORTH LINE OF 7TH STREET EXTENDED; THENCE WEST ALONG THE NORTH LINE OF 7TH STREET EXTENDED A DISTANCE OF 135.77 FEET TO THE

RACT 6: (MISSOURI WARRANTY DEED, BOOK 1536, AT PAGE 205)(DEED 6) ALL THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47 RANGE I, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 556.69 FEET NORTH OF THE SOUTHEAST CORNER OF 1/4 OF 1/4 SECTION: THENCE WEST 491.68 FEET; THENCE NORTH 158 FEET; THENCE EAST 491.69 FÉET; THÉNCE SOUTH 158 EET TO THE POINT OF BEGINNING, ALL IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI,

EXCEPT THAT PART CONTAINED IN THE REPORT OF COMMISSIONERS RECORDED AS DOCUMENT NO 131081 IN BOOK 189 AT PAGE 465, DESCRIBED AS FOLLOWS:

LL THAT PART OF THE SW 1/4 OF THE NE 1/4 OF SECTION 8, T47N, R31W, IN LEE'S SUMMIT JACKSON COUNTY, MISSOURI DESCRIBED AS FOLLOWS: BEGINNING AT A POINT 714.69 FEET NORTH AND 57 FEET WEST OF THE SOUTHEAST CORNER OF THE SW 1/4 OF THE NE 1/4 OF SAID SECTION 8, SAID POINT BEING 70 FEET WESTERLY OF THE CENTERLINE OF STATE HIGHWAY DESIGNATED ROUTE 00 (71 BY-PASS), AS MEASURED AT RIGHT ANGLES THERETO; THENCE SOUTH 3 DEGREES 14 MINUTES 23 SECONDS WEST PARALLELING SAID HIGHWAY CENTERLINE, 158 FEET; THENCE WEST PARALLELING THE SOUTH LINE OF SAID 1/4 1/4 SECTION, A DISTANCE OF 432 FEET; THENCE NORTH PARALLELING THE EAST LINE OF SAID 1/4 1/4 SECTION, A DISTANCE OF 75 FEET; THENCE NORTHEASTERLY ALONG A STRAIGHT LINE TO THE PÓINT OF BEGINNING.

<u>RACT 7:</u> (MISSOURI WARRANTY DEED, BOOK 1869, AT PAGE 312)(DEED 7) BEGINNING AT A POINT 1320.0 FEET NORTH OF THE EAST-WEST CENTER LINE OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, AND ON THE EAST LINE OF THE EAST ½ OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION; THENCE WEST 186.3; THENCE NORTH 100 FEET; THENCE EAST 186.3 FEET TO A POINT ON THE EAST LINE; THENCE SOUTH ON SAID EAST LINE 100.0 FEET TO THE POINT OF BEGINNING, EXCEPTING THEREFROM THAT PART SITUATED IN US HIGHWAY 71 BY-PASS.

RACT 8: (MISSOURI WARRANTY DEED, BOOK 1869, AT PAGE 313)(DEED 8) ALL OF THE SOUTH 3 ACRES OF THE EAST ½ OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31, IN LEE'S SUMMIT JACKSON COUNTY, MISSOURI, EXCEPT THE WEST 327 FEET THEREOF AND ALSO EXCEPT THE SOUTH 100 FEET OF THE EAST 186.3 FEET THEREOF.

FRACT 9: (MISSOURI WARRANTY DEED, BOOK 1-79, AT PAGE 635)(DEED 9) THE EAST 88.5 FEET OF THAT PART OF LOT 1. MUCKEY ADDITION, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, LYING SOUTH OF THE SOUTH LINE OF 6TH STREET, AS SAID STREET IS DESCRIBED IN DEED RECORDED IN BOOK 1039 AT PAGE 122, EXCEPT THE NORTH 155 FEET OF SAID

FRACT 10: (MISSOURI WARRANTY DEED, BOOK 551, AT PAGE 135)(DEED 10) ALL OF THE NORTH 2 ACRES OF THE SOUTH 5 ACRES OF THE SOUTHEAST 1/4 OF THE NORTHWEST /4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31, EXCEPT ALL THE WEST 327 FEET THEREOF MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT 198 FEET NORTH OF THE SOUTHWEST CORNER OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, TOWNSHIP 47, RANGE 31 AND RUNŃING THENCE EAST 327 FÉET; THENCE NORTH 132´ FEET; THENCE WEST 327 FEET, THENCE SOUTH 132 FEET TO POINT OF BEGINNING, ALL IN LEE'S

RACT 11: (MISSOURI WARRANTY DEED, BOOK 623, AT PAGE 833)(DEED 11) THE SOUTH 220 FEET OF THE WEST 88.5 FEET OF LOT 1. MUCKEY ADDITION, A SUBDIVISION IN LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

STORM WATER MANAGEMENT:

STORM WATER MANAGEMENT IS PROPOSED AS PART OF THIS PROJECT COMPLIES WITH THE KC METROPOLITAN CHAPTER OF APWA DESIGN CRITERIA SECTION 5600 AS ADOPTED BY THE CITY OF LEE'S SUMMIT. PROPOSED STORM WATER MANAGEMENT SYSTEM WILL MITIGATE INCREASES IN RUNOFF FOR THE STORM EVENTS ANALYZED TO A RATE AT OR LESS THAN THE EXISTING CONDITIONS.

UNDERGROUND UTILITY STATEMENT:

ONE-CALL LOCATED UTILITIES AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL UNDERGROUND UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION DEPICTED ALTHOUGH HE DOES CERTIFY THAT THEY ARE DEPICTED AS ACCURATELY AS POSSIBLE FROM INFORMATION MADE AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES SHOWN HEREON BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY. MISSOURI ONE CALL TICKET NUMBER: #200431409, 200431440, 200431475, 200440745.

FLOOD STATEMENT:

THE SURVEYED PARCEL LIES WITHIN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL FLOODPLAIN) AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP NUMBER 29095C0438G, MAP REVISED JANUARY 20, 2017, AND BY MAP NUMBER 29095C0436G, REVISED JANUARY 20, 2017 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI. LOCATION DETERMINED BY A SCALED GRAPHICAL PLOT OF THE FLOOD INSURANCE RATE MAP.

SITE DATA:

TOTAL SITE AREA: 1,983,297 SF - 45.53 Ac

PROJECT AREA/AREA OF DISTURBANCE PHASE II: 41,163 SF (0.945 AC.)

EXISTING: (COMPLETION OF PHASE I): 1154 REGULAR (22 ACCESSIBLE) STALLS PROPOSED: (COMPLETION OF PHASE II): 1171 REGULAR (22 ACCESSIBLE) STALLS

PROPOSED IMPERVIOUS COVERAGE WITHIN PHASE II PROJECT AREA 27,910 S.F. - 0.641 AC

INCREASE: 13,760 S.F. - 0.316 AC.

TOTAL: RP-2, CP-1(EAST 290')

HORIZONTAL AND VERTICAL DATUM:

UNLESS OTHERWISE NOTED THE COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE (1983) WEST ZONE (NAD 1983) (NAVD 1988) CAF: 0.9998978

NORTHING: 303646.030 (GRID/METERS) 996313.829 (GROUND/FEET) ELEVATION: 321.8 (METERS)

SITE BENCHMARKS:

FOUND CUT SQUARE AT THE SOUTHWEST CORNER OF CONCRETE HEADWALL OF CONCRETE FLUME ON THE WEST SIDE OF THE SCHOOL SOUTHEAST OF ENTRY DRIVE. ELEVATION= 1042.70

SET CUT SQUARE AT THE TOP NORTHEAST CORNER OF A CONCRETE PATIO WITH COVERED TABLES ON THE EAST SIDE OF BUILDING "B". ELEVATION= 1015.74

996470.24 (GRID)

2827149.83 (GRID)

996787.14 (GRID)

2827114.81 (GRID)

2827793.20 (GRID)

997894.59 (GRID)

2827829.81 (GRID)

NEW CONTROL POINTS AND

BENCHMARKS WILL NEED TO

BE ESTABLISHED PRIOR TO

CONSTRUCTION OF PHASE II

PROJECT CONTROL:

2" REBAR W/ ORANGE KVE CAP NORTHING: 996572.06 (GROUND) EASTING: 2827438.76 (GROUND) ELEV = 1049.49

1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996570.39 (GROUND) 996468.55 (GRID) EASTING: 2827055.45 (GROUND) 2826766.55 (GRID) ELEV = 1048.24

1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996889.02 (GROUND) EASTING: 2827403.78 (GROUND)

EASTING: 2828082.23 (GROUND)

OLSSON CONTROL POINT #3 NORTHING: 997219.69 (GROUND) 997117.77 (GRID)

ELEV = 1034.64OLSSON CONTROL POINT #4 NORTHING: 997996.59 (GROUND) EASTING: 2828118.84 (GROUND) ELEV = 1032.75

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OF PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH

CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

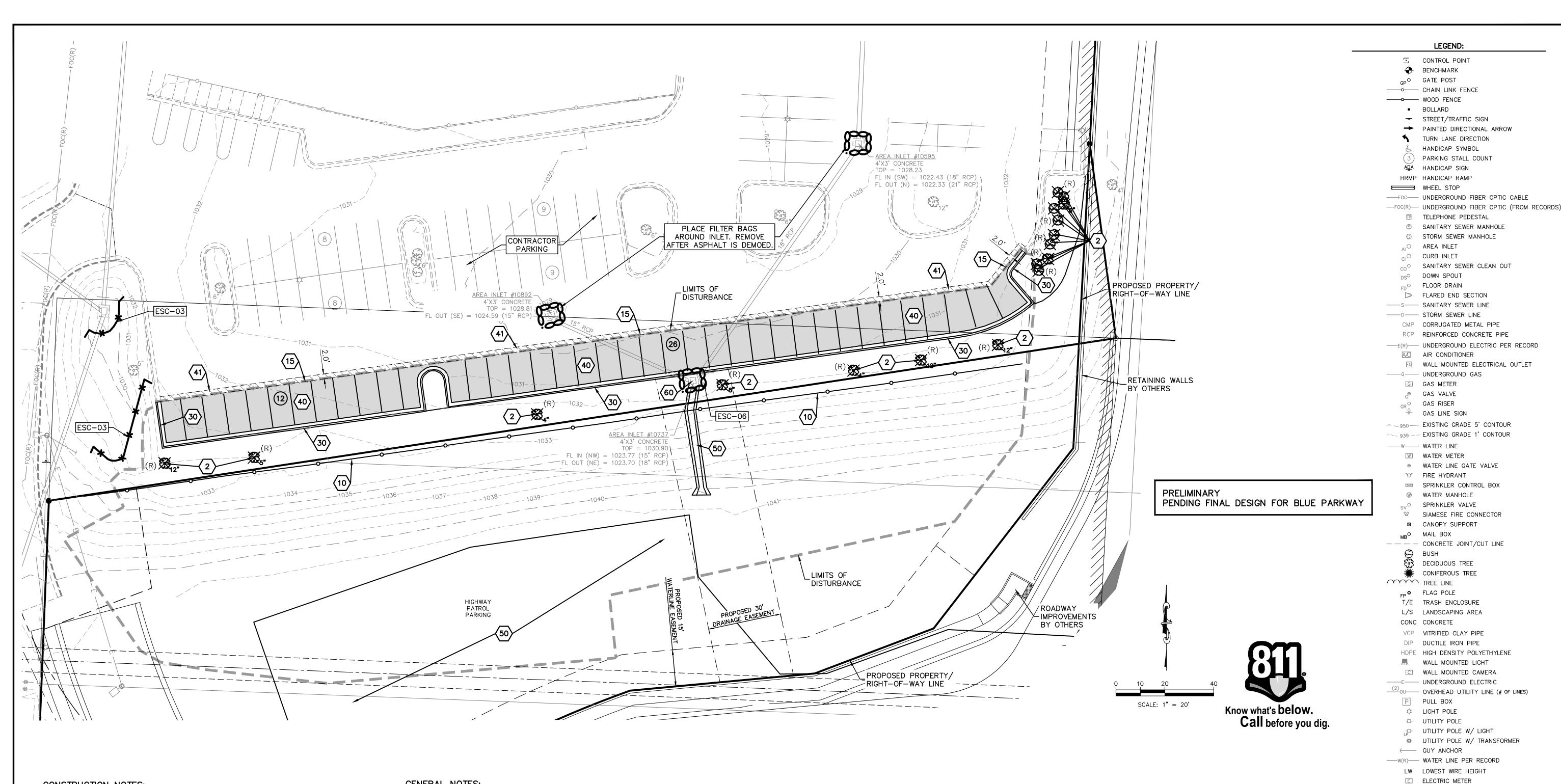
SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

DAVID D. WOOD ENGINEER MO # 2011037427

TION TE PI

DESIGNER



CONSTRUCTION NOTES:

CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE ALL BUILDINGS, UTILITIES, PAVEMENT, FOUNDATIONS, FENCES, CURBS AND ALL OTHER STRUCTURES FROM WITHIN PROPERTY LINES EXCEPT AS DESIGNATED "TO REMAIN" OR "TO BE REMOVED BY OTHERS", IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF LEE'S SUMMIT AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF FEBRUARY 19, 2024.

2. ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

THIS EROSION CONTROL PLAN HAS BEEN PLACED IN THE CITY'S FILE FOR THIS PROJECT. THE PLAN APPEARS TO FULFILL THE MISSOURI DEPARTMENT OF NATURAL RESOURCES TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION CONTROL AND REQUIREMENTS OF THE CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

GENERAL NOTES:

1. REFER TO SHEET C190 FOR PERMANENT SEEDING/STABILIZATION REQUIREMENTS.

- 2. REFER TO APWA STANDARD ESC DRAWINGS FOR ADDITIONAL
- DETAILS AND SPECIFICATIONS.
- 3. CONTRACTOR SHALL USE 291 ENTRANCE TO THE NORTH TO ACCESS THE SITE.

<u>DESCRIPTION OF WORK - PRE CONSTRUCTION AND PHASE I:</u>

- OBTAIN REVIEW COMPLIANCE AND APPLICABLE PERMITS.
- HOLD PRE—CONSTRUCTION CONFERENCE. • INSTALL PERIMETER EROSION CONTROL MEASURES, INLET PROTECTION
- DOWNSTREAM OF DEMOLITION AREAS AND TREE PROTECTION FENCING WITHIN CLEARING LIMITS AS APPLICABLE.
- SAWCUT AND REMOVE PAVEMENT, FLATWORK AND CURBING AT PERIMETER TIE-INS. COORDINATE WORK WITH LEE'S SUMMIT SCHOOL DISTRICT (LSSD). MAINTAIN PEDESTRIAN AND VEHICULAR TRAFFIC ACCESS TO CAMPUS AS DIRECTED BY LSSD.
- PROVIDE STABILIZED CONSTRUCTION INTO WORK AREA AS REQUIRED.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF

POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

FOR THE FOLLOWING DETAILS REFER TO THE KC METROPOLITAN CHAPTER ADOPTED DIVISION III APWA STANDARD DRAWINGS FOR EROSION AND SEDIMENT CONTROL (2017 VERSION) ON SHEETS C190.

ESC-03 SEDIMENTATION FENCE

DEMOLITION

- 1 TO REMAIN.
- 2 TREES/BUSHES/LANDSCAPING TO BE REMOVED BY OTHERS.
- 10 FENCE AND FENCE POST TO BE REMOVED BY OTHERS.
- CUT MINIMUM OF 6" FROM NEW CURB LINE). SEE SHEET C100 FOR LIMITS.

SAW CUT LINE (FOR CONCRETE SAW CUT AT NEAREST CONTROL JOINT. FOR ASPHALT SAW

- CONTRACTOR TO REMOVE CONCRETE CURBS TO CONSTRUCT IMPROVEMENTS. SEE SHEET C100 FOR LIMITS.
- 40 CONTRACTOR TO REMOVE ASPHALT PAVING AS REQUIRED TO CONSTRUCT IMPROVEMENTS.
- CONTRACTOR TO MILL ASPHALT SURFACE, MINIMUM 2' OUTSIDE ASPHALT REMOVAL. REFER TO SHEET C100 FOR LIMITS. REFER TO SECTION A-A ON SHEET C190.
- 50 CONCRETE FLUME AND PARKING AREA TO BE REMOVED BY OTHERS
- 60 CONTRACTOR TO MODIFY STORM STRUCTURE.

INDICATES TREE/SHRUB TO BE REMOVED

EROSION & PROPOSED IMPROVEMENTS LEGEND:

————1218———— EXISTING GROUND CONTOUR (1' INTERVALS) PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS) • GRAVEL FILTER BAGS SEDIMENTATION FENCE (ESC-03) LIMITS OF DISTURBANCE

UNDERGROUND ELECTRIC PEDESTAL

ASPHALT PAVING TO BE REMOVED

CONCRETE PAVING/SIDEWALKS TO BE REMOVED

——G(R)—— UNDERGROUND GAS PER RECORD

——S(R)—— SANITARY SEWER LINE PER RECORD

——D(R)—— STORM SEWER LINE PER RECORD

■ SPEAKER BOX

BBC BREAKER BOX

AREA TO BE MILLED

LEGEND:

E'S SUMMIT SE BLUE PARKY SUMMIT, MISSO LEES LEIS C23_1880
DESIGNER DRAWN BY DDW 880DEMO PHII C200

DOCUMI

ON & E

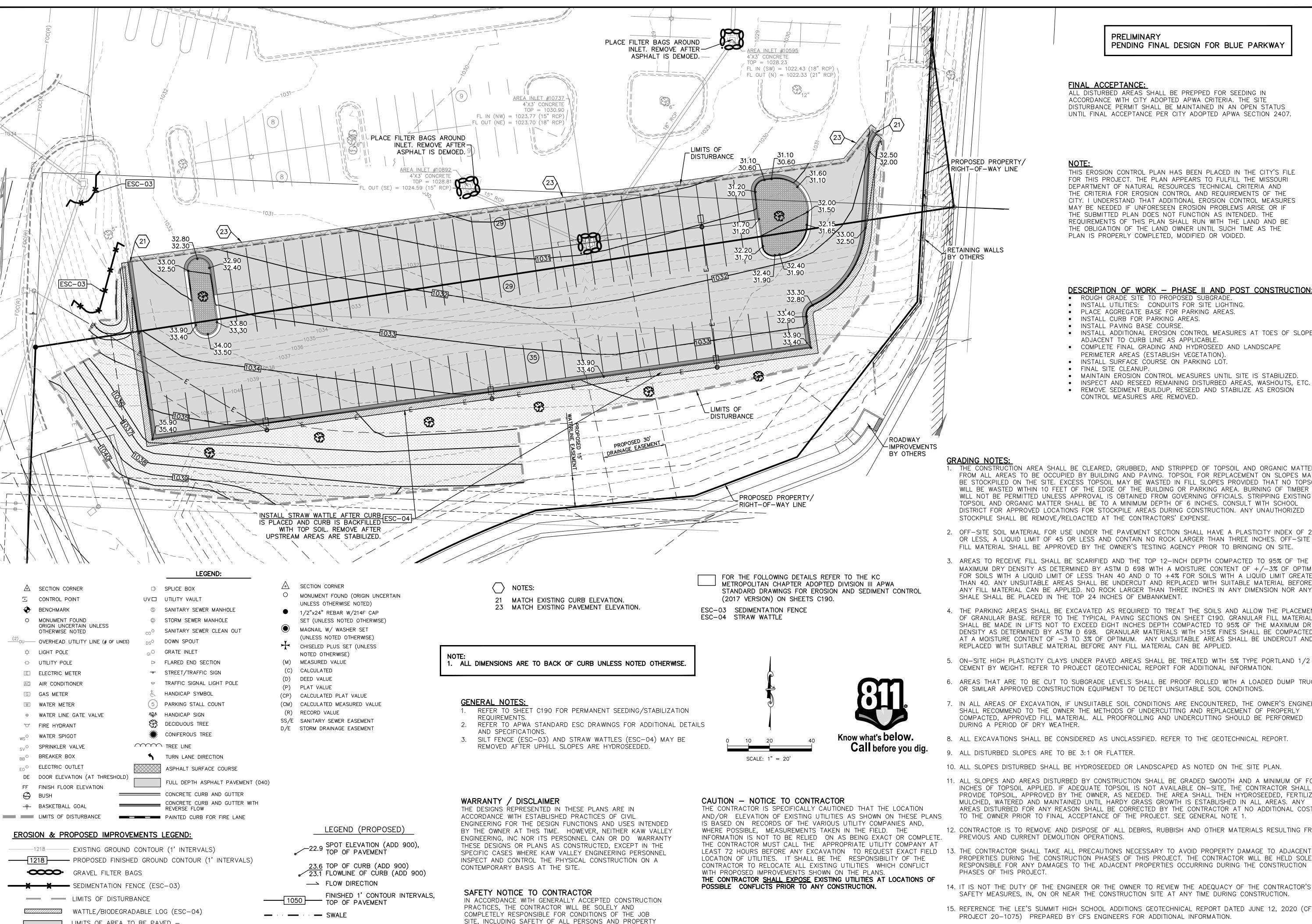
DAVID D. WOOD

ENGINEER

MO # 2011037427

4700 LENE

ARKIN



DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT

WORKING HOURS.

WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL

PRELIMINARY PENDING FINAL DESIGN FOR BLUE PARKWAY

FINAL ACCEPTANCE:

ALL DISTURBED AREAS SHALL BE PREPPED FOR SEEDING IN ACCORDANCE WITH CITY ADOPTED APWA CRITERIA. THE SITE DISTURBANCE PERMIT SHALL BE MAINTAINED IN AN OPEN STATUS UNTIL FINAL ACCEPTANCE PER CITY ADOPTED APWA SECTION 2407

THIS EROSION CONTROL PLAN HAS BEEN PLACED IN THE CITY'S FILE FOR THIS PROJECT. THE PLAN APPEARS TO FULFILL THE MISSOURI DEPARTMENT OF NATURAL RESOURCES TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION CONTROL AND REQUIREMENTS OF THE CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION PROBLEMS ARISE OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

<u>DESCRIPTION OF WORK - PHASE II AND POST CONSTRUCTION:</u>

- ROUGH GRADE SITE TO PROPOSED SUBGRADE
- INSTALL UTILITIES: CONDUITS FOR SITE LIGHTING. • PLACE AGGREGATE BASE FOR PARKING AREAS.
- INSTALL CURB FOR PARKING AREAS.
- INSTALL PAVING BASE COURSE.
- INSTALL ADDITIONAL EROSION CONTROL MEASURES AT TOES OF SLOPE ADJACENT TO CURB LINE AS APPLICABLE.
- COMPLETE FINAL GRADING AND HYDROSEED AND LANDSCAPE
- PERIMETER AREAS (ESTABLISH VEGETATION).
- INSTALL SURFACE COURSE ON PARKING LOT
- FINAL SITE CLEANUP
- MAINTAIN EROSION CONTROL MEASURES UNTIL SITE IS STABILIZED. • INSPECT AND RESEED REMAINING DISTURBED AREAS, WASHOUTS, ETC.
- REMOVE SEDIMENT BUILDUP, RESEED AND STABILIZE AS EROSION
- CONTROL MEASURES ARE REMOVED.

THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON THE SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES. CONSULT WITH SCHOOL DISTRICT FOR APPROVED LOCATIONS FOR STOCKPILE AREAS DURING CONSTRUCTION. ANY UNAUTHORIZED STOCKPILE SHALL BE REMOVE/RELOACTED AT THE CONTRACTORS' EXPENSE

2. OFF-SITE SOIL MATERIAL FOR USE UNDER THE PAVEMENT SECTION SHALL HAVE A PLASTICITY INDEX OF 25 OR LESS, A LIQUID LIMIT OF 45 OR LESS AND CONTAIN NO ROCK LARGER THAN THREE INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE OWNER'S TESTING AGENCY PRIOR TO BRINGING ON SITE.

3. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 12-INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 WITH A MOISTURE CONTENT OF $\pm 1/-3\%$ OF OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF LESS THAN 40 AND 0 TO +4% FOR SOILS WITH A LIQUID LIMIT GREATER THAN 40. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 24 INCHES OF EMBANKMENT.

4. THE PARKING AREAS SHALL BE EXCAVATED AS REQUIRED TO TREAT THE SOILS AND ALLOW THE PLACEMENT OF GRANULAR BASE. REFER TO THE TYPICAL PAVING SECTIONS ON SHEET C190. GRANULAR FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. GRANULAR MATERIALS WITH >15% FINES SHALL BE COMPACTED AT A MOISTURE CONTENT OF -3 TO 3% OF OPTIMUM. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.

5. ON-SITE HIGH PLASTICITY CLAYS UNDER PAVED AREAS SHALL BE TREATED WITH 5% TYPE PORTLAND 1/2 CEMENT BY WEIGHT. REFER TO PROJECT GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

6. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.

7. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED. THE OWNER'S ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOFROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.

8. ALL EXCAVATIONS SHALL BE CONSIDERED AS UNCLASSIFIED. REFER TO THE GEOTECHNICAL REPORT.

9. ALL DISTURBED SLOPES ARE TO BE 3:1 OR FLATTER.

10. ALL SLOPES DISTURBED SHALL BE HYDROSEEDED OR LANDSCAPED AS NOTED ON THE SITE PLAN.

- 11. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND A MINIMUM OF FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON-SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER. AS NEEDED. THE AREA SHALL THEN HYDROSEEDED, FERTILIZED, MULCHED. WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. SEE GENERAL NOTE 1.
- 12. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
- PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- 14. IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
- 15. REFERENCE THE LEE'S SUMMIT HIGH SCHOOL ADDITIONS GEOTECHNICAL REPORT DATED JUNE 12, 2020 (CFS PROJECT 20-1075) PREPARED BY CFS ENGINEERS FOR ADDITIONAL INFORMATION.

DAVID D. WOOD ENGINEER MO # 2011037427

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ARKIN PHASE L PLAN **D** S DOCUMENTS | Ш

HS WAY OUR

E'S SUMMIT | SE BLUE PARKW SUMMIT, MISSO TION TRUC-S

LEE 400 S LEIS DESIGNER DRAWN E DDW 1880GP PHII

LP LOW POINT

HP HIGH POINT

LOC LIP OF CURB

LIMITS OF AREA TO BE PAVED

REFERENCE GRADING PLAN FOR

CONSTRUCTION SPECIFICATIONS