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.

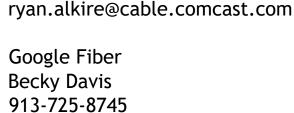
A CONTEMPORARY BASIS AT THE SITE.

APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY/DISCLAIMER THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENEDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER SM ENGINEERING NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SM ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON

NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY. SAFETY NOTICE TO CONTRACTOR IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICE, 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

UTILITY STATEMENT: THE UNDERGROUND UTILITIES SHOWN HEREON ARE FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES, FIELD SURVEY INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE. AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS



rebeccadavis@google.com

CAUTION- NOTICE TO CONTRACTOR

Comcast Ryan Alkire 816-795-2218

Time Warner Cable **Steve Baxter** 913-643-1928 steve.baxter@charter.com

Communication Service AT&T Carrie Cilke 816-703-4386 cc3527@att.com

Water Utilities Department 1200 SE Hamblen Road Lee's Summit, Mo 64081 Jeff Thorn 816-969-1900 jeff.thorn@cityofls.net

Water/Sanitary Sewer

Gas Service Spire Bobbe Saulsberry 816-591-6909 bobbie.saulsberry@sprieenergy.com

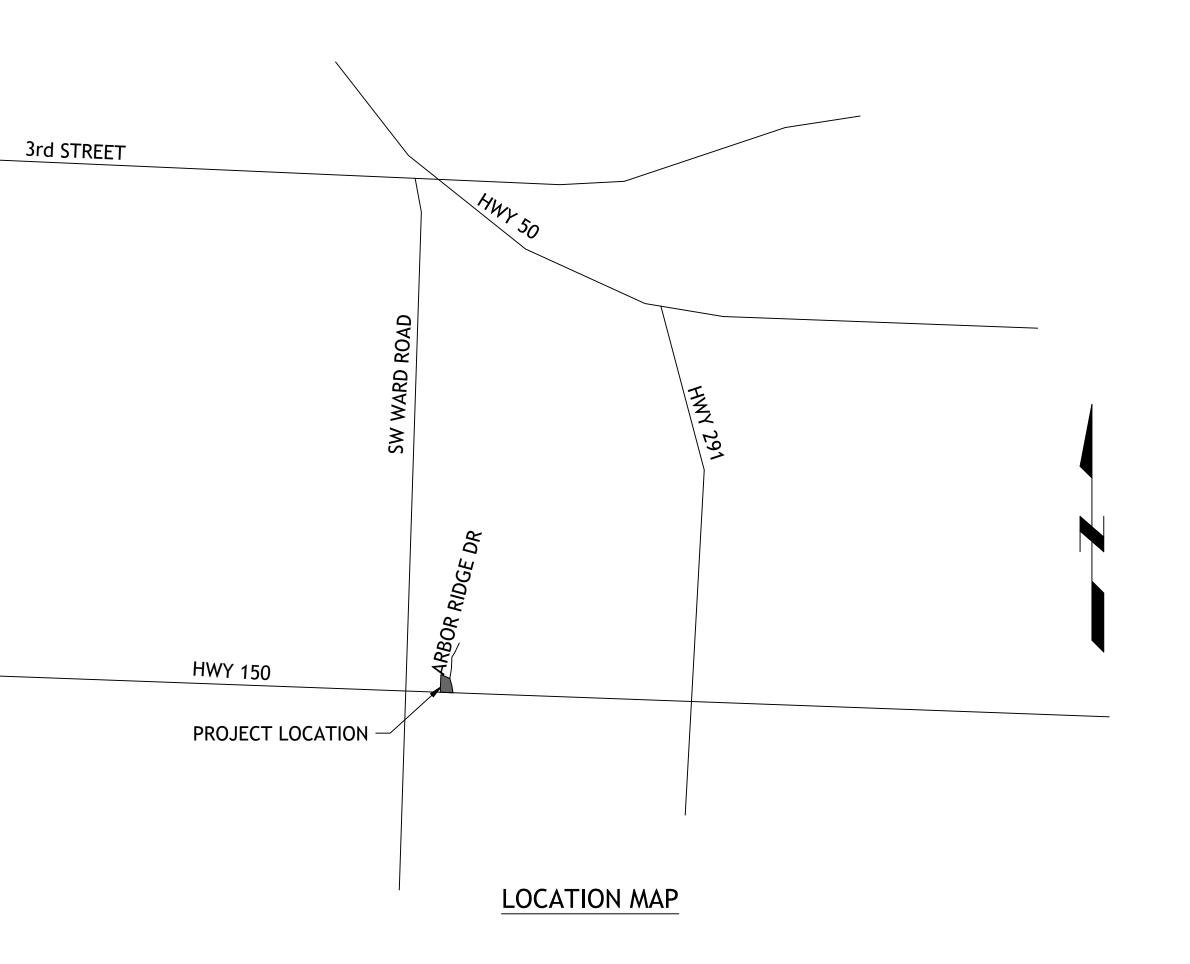
Electric Service Evergy Ron DeJarnette 816-347-4316 ron.dejarnette@evergy.com

UTILITIES





FINAL DEVELOPMENT PLANS FOR THE LEARNING EXPERIENCE ARBOR WALK WEST LEE'S SUMMIT, MO



DESCRIPTION LOT 3 PROPOSED ARBORWALK WEST ADDITION

FLOODPLAIN NOTE:

SUBJECT PROPERTY IS SHOWN TO BE LOCATED IN "OTHER AREAS ZONE X" ON THE FLOOD INSURANCE RATE MAP FOR JACKSON COUNTY, MISSOURI AND INCORPORATED AREAS. COMMUNITY PANEL NO. 29095C0531G, REVISED JANUARY 20, 2017. "OTHER AREAS ZONE X" IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUL CHANCE FLOODPLAIN". LOCATION DETERMINED BY A SCALED GRAPHICAL PLOT OF THE FLOOD INSURANCE RATE MAP.

> NOTE: THERE ARE NO GAS/OIL WELLS ON SITE PER MDNR DATA BASE OF OIL AND GAS PERMITS.

RELEASED FOR CONSTRUCTION As Noted on Plan Review

Development Services Department Lee's Summit, Missouri 11/27/2023



Engineer and intended specifically for this project. Use of items contained herein without consent of the Engineeris prohibited. Drawings illustrate best mation available to the Engineer. Fi rification of actual elements. condition: and dimensions is required.

INDEX OF SHEETS

- C-1 COVER SHEET C-2 EXISTING CONDITIONS C-3 EXISTING CONDITIONS C-4 OVERALL SITE PLAN C-5 UTILITY PLAN C-6 GRADING PLAN C-7 STORM LINE C PLAN AND PROFILE C-7.1 STORM LINE A PLAN AND PROFILE C-8 DRAINAGE PLAN C-9 EROSION CONTROL C-10 EROSION DETAILS C-11 DETAILS C-12 DETAILS
- C-13 DETAILS
- C-14 LANDSCAPE PLAN
- C-15 FIRE TRUCK MOVEMENTS
- C-16 PHOTOMETRIC PLAN

DEVELOPER

CHRISTIE DEVELOPMENT ASSOCIATES LLC 7217 W **110TH STREET** OVERLAND PARK, KS 66210 CONTACT: GARRETT FUGATE PHONE: 913.649.4500 EMAIL: GARRET@CHRISTIEDEV.COM

ENGINEER

SM ENGINEERING SAM MALINOWSKY 1310 WESTLOOP PL SUITE #315 MANHATTAN KANSAS, 66502 SMCIVILENGR@GMAIL.COM 785.341.9747

SURVEYOR

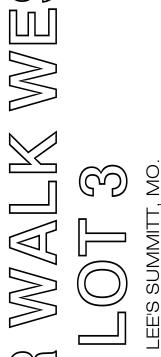
SCHMIDT, BECK & BOYD ENGINEERING, LLC 1415 SW TOPEKA BOULEVARD TOPEKA, KANSAS 66612 PH: (785) 215-8630 / WWW.SBBENG.COM

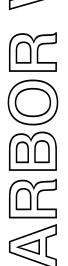




SAMUEL D. MALINOWSKY PROFESSIONAL ENGINEEER

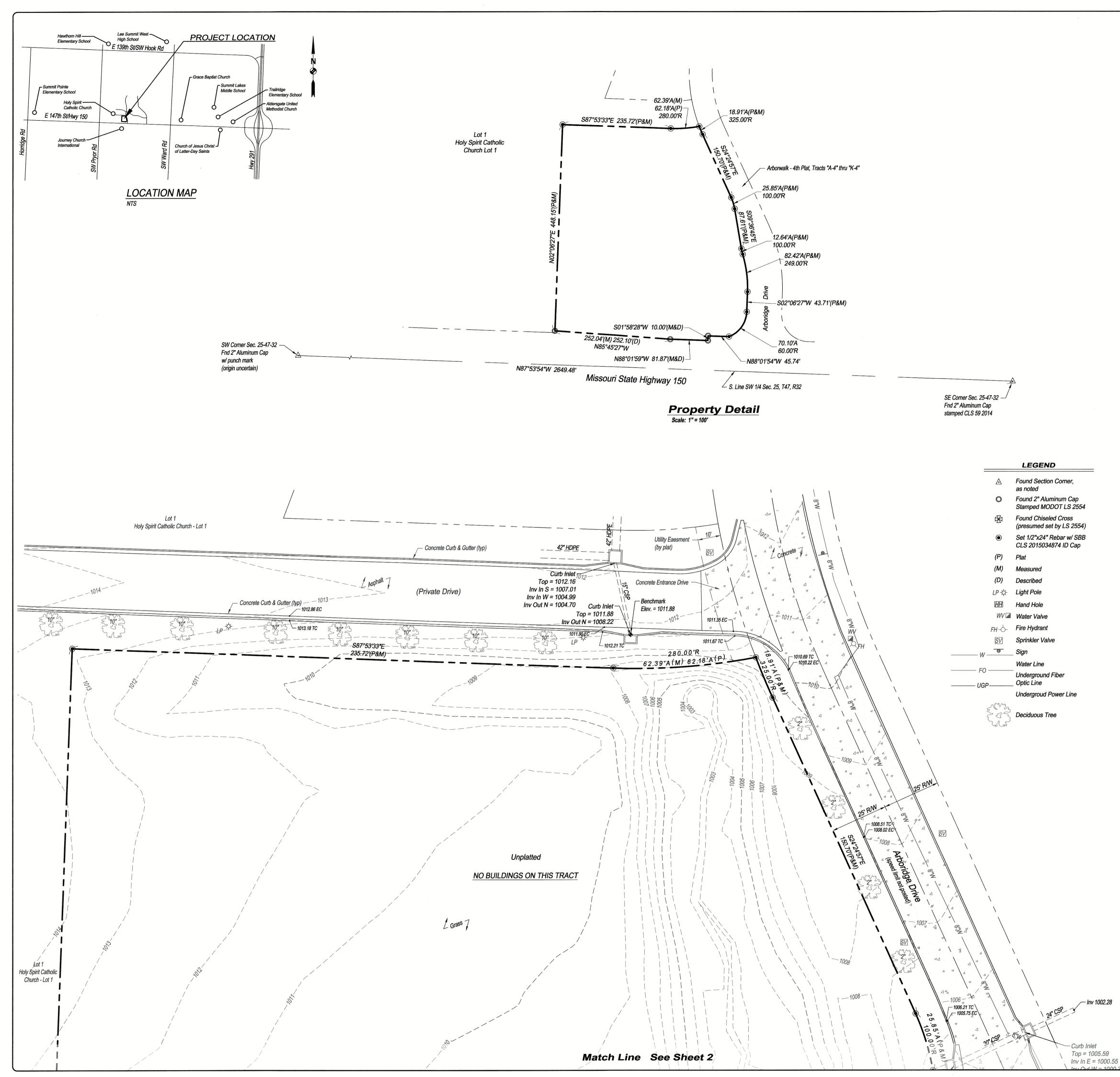
Revisions 8-29-23 CITY COMMENTS 9-20-23 CITY COMMENTS





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RELEASED FOR CONSTRUCTION As Noted on Plan Review

Development Services Department Lee's Summit, Missouri

11/27/2023

All that part of the Southwest Quarter of Section 25, Township 47, Range 32, in Lee's Summit, Jackson County,



LEGAL DESCRIPTION:

Missouri, lying North of the North line of Missouri Highway 150, as presently established, lying West of the West line of SW Arboridge Drive as shown on the plat of ARBORWALK 4TH PLAT, a subdivision in Lee's Summit, Jackson County, Missouri, and lying South and East of Lot 1, HOLY SPIRIT CATHOLIC CHURCH - LOT 1, a subdivision in Lee's Summit, Jackson County, Missouri. COMMITMENT FOR TITLE INSURANCE: Issuing Office: Chicago Title Insurance Company Order Number: KCC213333 Commitment Date: January 12, 2022 at 08:00 AM SCHEDULE B, PART II EXCEPTIONS: Items 1 through 5 and 12 are standard exceptions, not plottable survey matters. Items 6, 7 and 13 are tax related items, not plottable survey matters. 8. Water line easement granted to the City of Lee's Summit, recorded June 25, 2001 as Document No. 2001/0048744. (Does not affect subject tract) 9. Right of way and easement granted to the State of Missouri by Warranty Deed recorded February 25, 2009 as Document No. 2009E0017354. (This document describes the centerline of Missouri State Highway No. 150)(Is plotted hereon)(Easements and Right-of-Way taken by this document does not affect subject tract) 10. Right-of-Way Location Survey for MO State Highway 150 recorded July 9, 2009 as Document No. 2009E0068194, in Survey Book 33, Page 54 (This document is a survey of the proposed Right-of-Way of Missouri State Highway No. 150)(Is plotted hereon) 11. Any adverse claim based on the assertion that the boundary line of said Land is other than as shown on a survey designated as Job No. 23 1267 04, dated May 27, 2005, prepared by E.T. Archer Corporation d.b.a Archer Total Project Management. (Not a survey matter) SURVEYOR'S NOTES: 1. The bearing system for this survey is based on Missouri State Plane, West Zone, NAD 83.

- 2. Addresses shown on this survey were observed during the performance of the fieldwork.
- 3. According to the Flood Insurance Rate Map "FIRM" Community Map Number 29095C0513G, effective date January 20, 2017, this property is in Flood Zone "X", area determined to be outside the 0.2% annual chance floodplain.
- 4. Vertical datum shown on this survey is based on NAVD 88 datum.

Chiseled square at center front face of curb inlet, located on South side of private drive along the North line of subject tract. Elev. = 1011.88

Chiseled square at the Northeast corner of concrete headwall for 6'x4' RCB, located near the SE corner of subject tract. Elev. = 996.91

- 5. Client did not provide a current zoning report for subject tracts.
- 6. The location of objects shown on this survey are those that were observable during the performance of the fieldwork. No research or investigation has been made with regards to any objects and/or potential encroachments that are underground.
- 7. Utilities were field located through Missouri One Call Ticket No. 213571736, dated December 23, 2021, and through observable field evidence. Water line location and size is shown as per GIS information provided by the City of Lee Summit.
- 8. Property ownership information and parcel lines are shown as per the Jackson County, Missouri on-line GIS map.

Reference Surveys:

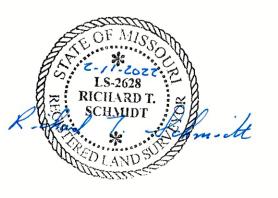
- ALTA/NSPS Land Title Survey (unsigned), by Jason Roundebush, PLS 2002014092, dated June 21, 2021.
- Right of Way Location Survey, by Gary R. Summers, RLS No. 2554, dated June 22, 2009.
- Subdivision plats of Arborwalk 4th Plat, Tracts "A-4" thru "K-4" and Holy Spirit Catholic Church Lot 1.

CERTIFICATION CASEY'S MARKETING COMPANY AND CHICAGO TITLE INSURANCE COMPANY

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 6(a), 8, 11 and 13 of Table A thereof. The field work was completed on January 5, 2022.

Date of Plat or Map: February 8, 2022

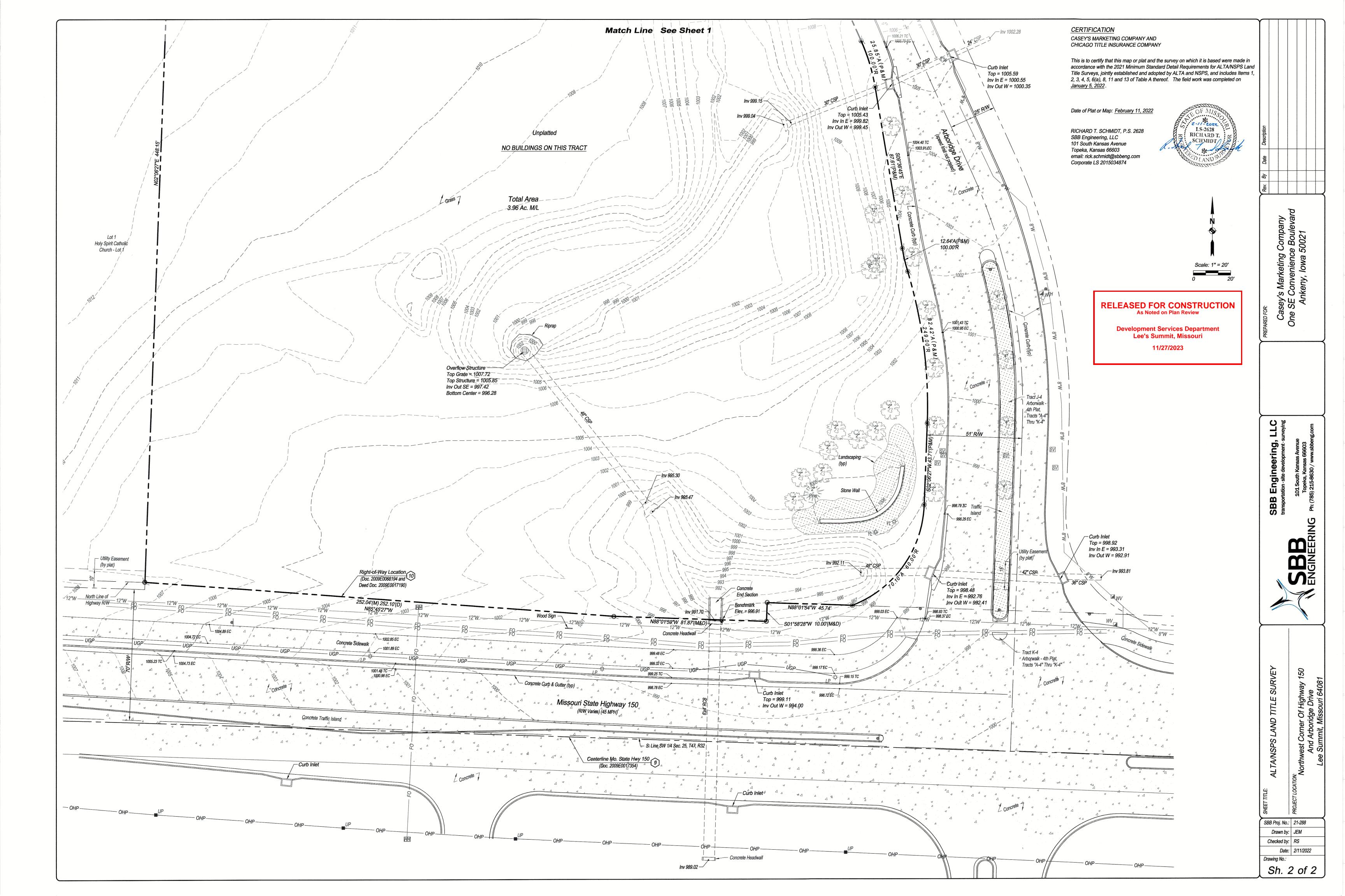
RICHARD T. SCHMIDT, P.S. 2628 SBB Engineering, LLC 101 South Kansas Avenue Topeka, Kansas 66603 email: rick.schmidt@sbbeng.com Corporate LS 2015034874



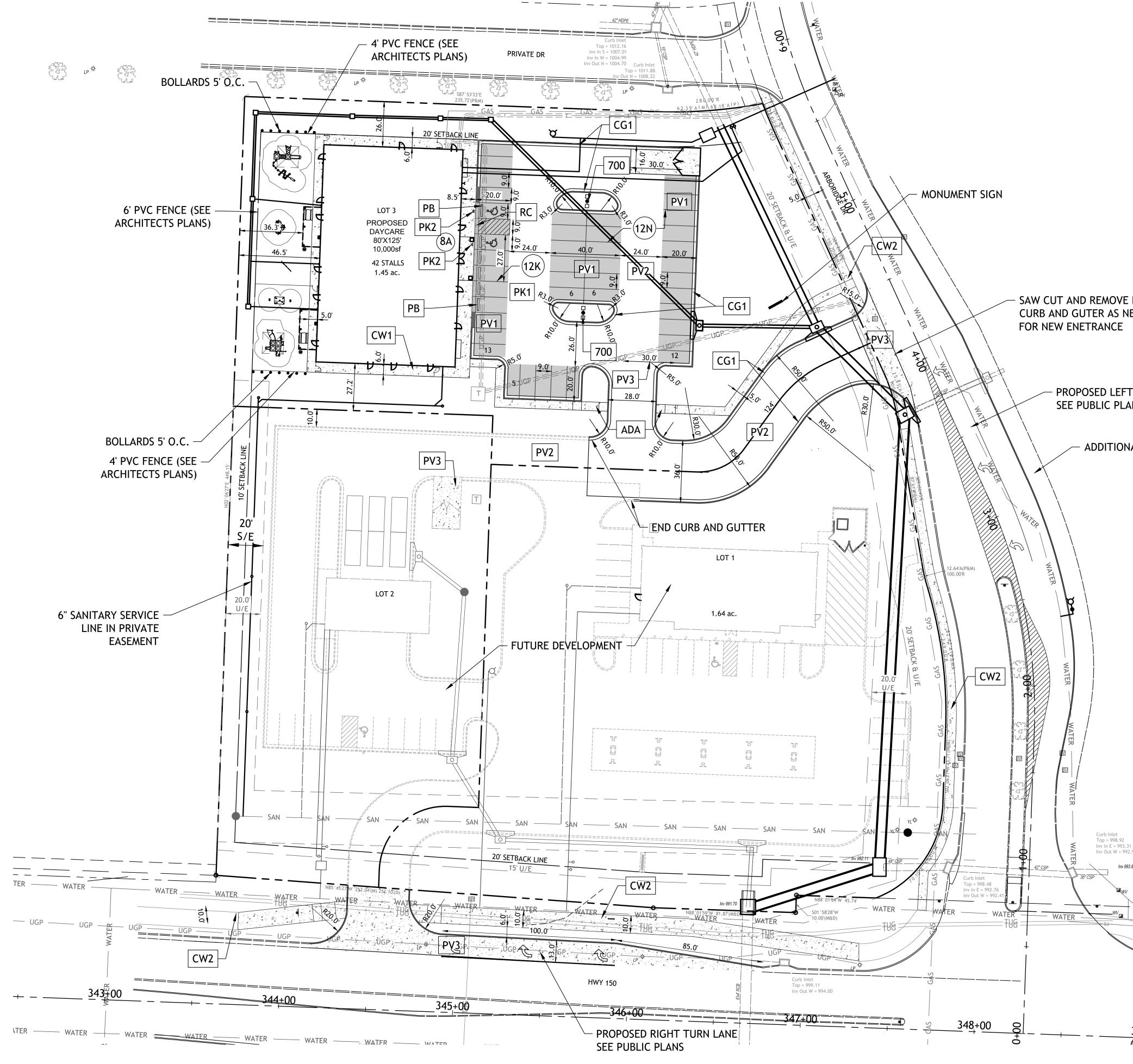
Rev. By Date Description						
PREPARED FOR:		Casey's Marketing Company	One SE Convenience Boulevard	Ankenv, Iowa 50021		
	SBB Engineering, LLC	transportation · site development · surveying		Topeka. Kansas 66603	ENGINEERING Ph: (785) 215-8630 / www.sbbeng.com	
-	LAND TITLE SURVEY			Corner Of Highway 150	dge Drive	imit, Missouri 64081
SHEET TITLE:	ALTA/NSPS LAND	j. No.	PROJECT LOCATION:	Northwest Corner	And Arbori	Lee Sumn

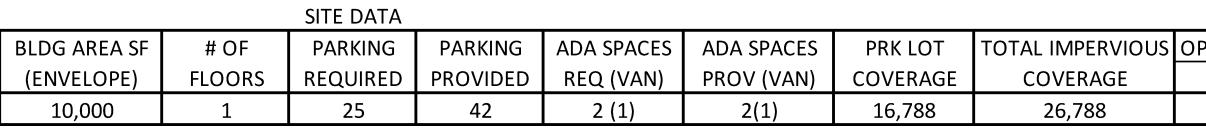
Drawing No.:

Sh. 1 of 2

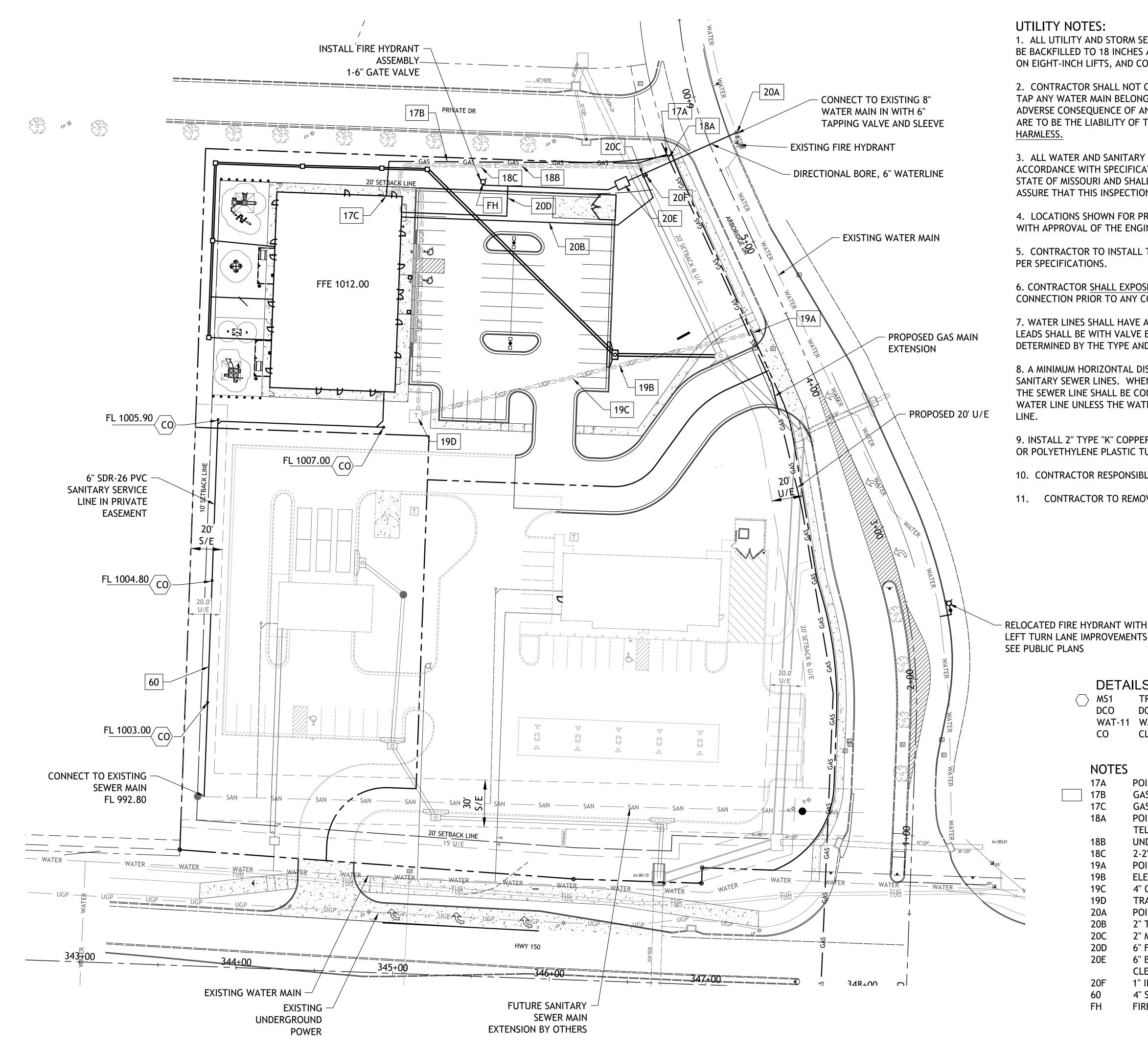


	EXISTING/PROPOSED	LOT AREA	LOT AREA	
LOT	ZONING	(SF)	(ACRES)	
LOT 3	PMIX	63,162	1.45	





		SM Engineering
PEN SPACE	CONSTRUCTION NOTES: 1. COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH OWNER.	1310 WESTLOOP PL SUITE #315
36,374	2. CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE STANDARD SPECIFICATIONS.	MANHATTAN KS, 6650 smcivilengr@gmail.co 785.341.9747
	3. ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.	Drawings and/or Specifications are o proprietary work and property of Engineer and intended specifically fo project. Use of items contained he without consent of the Engineer prohibited. Drawings illustrate be information available to the Engineer verification of actual elements, cond
	4. PUBLIC CONVENIENCE AND SAFETY: THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR TI-1E CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO STREETS IN THE CONSTRUCTION AREA.	and dimensions is required.
	5. ALL DIMENSIONS SHOWN ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.	
	6. ACCESSIBLE STALLS SHOWN WITH A "VAN" SHALL BE 16'-0" MIN. AND SHALL HAVE A SIGN DESIGNATING "VAN-ACCESSIBLE". SEE DETAIL102.	SAMULU SA
E EXISTING NECESSARY	NOTE: 1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE. SLOPED PAVING, EXIT PORCHES AND RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.	Revisions 8-29-23 CITY COMMENTS 9-20-23 CITY COMMENTS
T TURN LANE ANS	2. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.	
NAL RIGHT OF WAY	3. ALL DIMENSIONS ARE PERPENDICULAR TO PROPERTY LINE.	
	4. ACTUAL SIGN LOCATIONS TO BE COORDINATED WITH CONSTRUCTION MANAGER.	
	5. LIGHT POLE IS 23' TALL FOR A 27' MOUNTING HEIGHT	
	SEE DETAIL SHEET FOR THE FOLLOWING DETAILS: PK-1 96" ACCESSIBLE & VAN ACCESSIBLE SPACE STRIPING PK-2 ACCESSIBLE SIGN SG-1 BOLLARD DETAIL CG-1 TYPE B CURB AND GUTTER CW1 CURB WALK AT BUILDING PV1 REGULAR DUTY PAVEMENT PV2 HEAVY DUTY ASPHALT PAVEMENT PV3 HEAVY DUTY CONCRETE PAVEMENT CW2 SIDEWALK PB PARKING BLOCK RC RIBBON CURB 700 LIGHT POLE ADA HANDICAP RAMP	
.31 92.91 193.81	NOTES: 8A DOOR (SEE ARCH. PLANS) 12K YELLOW PARKING LOT STRIPING (SHERWIN-WILLIAMS TM 2160 LEAD FREE OR APPROVED EQUAL) 12N 4" YELLOW STRIPES 3'-0" O.C. NOTE: DEVELOPMENT ON LOTS 1 & 2 ARE SHOWN FOR INFORMATION ONLY AND ARE NOT A PART OF THIS PLAN.	
349+00	RELEASED FOR CONSTRUCTION As Noted on Plan Review Development Services Department Lee's Summit, Missouri 11/27/2023	shee CA.O
	0 15' 30'	Civil SITE PLAN permit 19 JULY 2023



1. ALL UTILITY AND STORM SEWER TRENCHES CONSTRUCTED UNDER AREAS THAT RECEIVE PAVING SHALL BE BACKFILLED TO 18 INCHES ABOVE THE TOP OF THE PIPE WITH SELECT GRANULAR MATERIAL PLACED ON EIGHT-INCH LIFTS, AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

2. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCE OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. SM ENGINEERING AND OWNER ARE TO BE HELD

3. ALL WATER AND SANITARY SEWER SYSTEMS THAT ARE TO BE PUBLIC LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS PREVIOUSLY APPROVED BY THE CITY OF LEE'S SUMMIT AND THE STATE OF MISSOURI AND SHALL BE INSPECTED BY THE CITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THIS INSPECTION OCCURS.

4. LOCATIONS SHOWN FOR PROPOSED WATER LINES ARE APPROXIMATE. VARIATIONS MAY BE MADE, WITH APPROVAL OF THE ENGINEER, TO AVOID CONFLICTS.

5. CONTRACTOR TO INSTALL TRACING TAPE ALONG ALL NON-METALLIC WATER MAINS AND SERVICE LINES

6. CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF NEW UTILITIES.

7. WATER LINES SHALL HAVE A MINIMUM COVER OF 42 INCHES. ALL VALVES ON MAINS AND FIRE HYDRANT LEADS SHALL BE WITH VALVE BOX ASSEMBLIES. THE SIZE OF VALVE BOX ASSEMBLY TO BE INSTALLED IS DETERMINED BY THE TYPE AND SIZE OF VALVE. VALVE BOX CAPS SHALL HAVE THE WORD "WATER".

8. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SANITARY SEWER LINES. WHEN IT IS NECESSARY FOR ANY WATER LINE TO CROSS A SANITARY SEWER LINE, THE SEWER LINE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE AT LEAST 10 FEET EITHER SIDE OF THE WATER LINE UNLESS THE WATER LINE IS AT LEAST 2 FEET CLEAR DISTANCE ABOVE THE SANITARY SEWER

9. INSTALL 2" TYPE "K" COPPER FROM THE MAIN AT LEAST 10' BEYOND THE METER AND EITHER TYPE "K" OR POLYETHYLENE PLASTIC TUBING (PE 3608) FROM METER TO STOP AND WASTE VALVE INSIDE BUILDING.

10. CONTRACTOR RESPONSIBLE FOR PROVIDING CASEMENT FOR ELECTRICAL SERVICE PER EVERGY

11. CONTRACTOR TO REMOVE EXISTING STUB AS REQUIRED TO CLEAR BUILDING CONSTRUCTION



Development Services Department Lee's Summit, Missouri 11/27/2023

- DETAILS
- MS1 TRENCH AND BEDDING DETAILS
- DOUBLE CLEANOUT DCO
- WAT-11 WATER SERVICE CONNECTION
- CO CLEANOUT

NOTES

- 17A POINT OF CONNECTION - GAS SERVICE
- GAS SERVICE (BY GAS COMPANY) 17B
- 17C GAS METER
- 18A POINT OF CONNECTION - TELEPHONE SERVICE - COORDINATE WITH **TELEPHONE COMPANY**
- UNDERGROUND TELEPHONE SERVICE PER LOCAL TELEPHONE COMPANY 18B
- 2-2" CONDUIT INSTALLED BY CONTRACTOR TELEPHONE SERVICE 18C
- POINT OF CONNECTION ELECTRICAL SERVICE 19A
- 19B ELECTRICAL SERVICE (SEE NOTE 10)
- 4" CONDUIT INSTALLED BY CONTRACTOR ELECTRIC SERVICE 19C TRANSFORMER PAD PER EVERGY DETAIL 700-103 19D
- POINT OF CONNECTION WATER 20A
- 20B 2" TAP WITH 2" SERVICE
- 20C 2" METER
- 20D 6" FIRE LINE (C-900)
- 6" BFP ASSEMBLY IN 8'X6' VAULT OR AS REQUIRED PER 20E
- CLEARANCE DETAIL WAT-12
- **1" IRRIGATION METER** 20F
- **4" SANITARY SEWER SERVICE LINE** 60 FIRE HYDRANT
- FH

smcivilengr@gmail.com 785.341.9747 wings and/or Specifications are origination of the second proprietary work and property of the ngineer and intended specifically for this project. Use of items contained herei without consent of the Engineeris prohibited. Drawings illustrate best ation available to the Engineer. Fie ification of actual elements, conditions and dimensions is required.

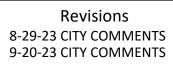
SM Engineering

1310 WESTLOOP

PL SUITE #315

MANHATTAN KS, 66502





ARBOR WALK WEST		
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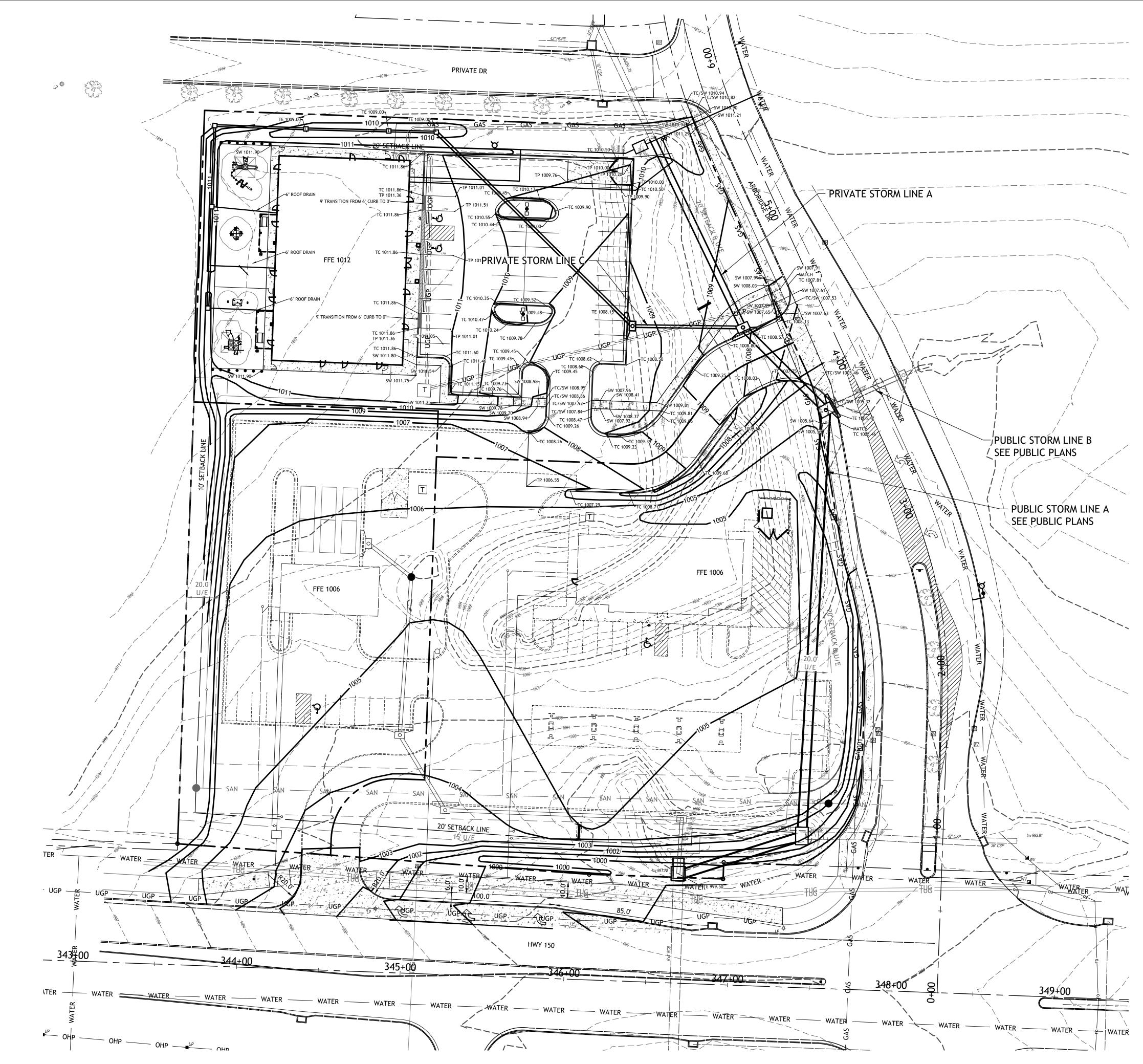
UTILITY

permit

19 JULY 2023

1"=30'

0 15' 30



RELEASED FOF	R CONSTRUCTION
As Noted o	on Plan Review

Development Services Department Lee's Summit, Missouri 11/27/2023

GRADING NOTES:

1. EARTHWORK UNDER THE BUILDING SHALL COMPLY WITH THE PROJECT ARCHITECTURAL PLANS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. FILL MATERIAL MAY INCLUDE ROCK FROM ON-SITE EXCAVATION IF CAREFULLY PLACED SO THAT LARGE STONES ARE WELL DISTRIBUTED AND VOIDS ARE COMPLETELY FILLED WITH SMALLER STONES, EARTH, SAND OR GRAVEL TO FURNISH A SOLID EMBANKMENT. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 12 INCHES OF EMBANKMENT.

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

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

4. CONTRACTOR SHALL USE SILT FENCE OR OTHER MEANS OF CONTROLLING EROSION ALONG THE EDGE OF THE PROPERTY OR OTHER BOTTOM OF SLOPE LOCATIONS.

5. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.

6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT 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.

7. 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.

8. PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.

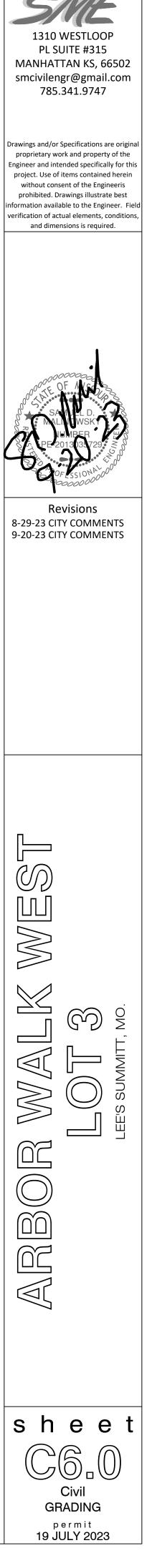
9. HANDICAP STALLS SHALL MEET ADA REQUIREMENTS AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION AT THE BUILDING ENTRY AND ACCESSIBLE PARKING STALLS. SLOPES EXCEEDING 2.0% WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

10. CONTRACTOR TO ADJUST DEPTHS OF EXISTING SERVICE LINES AS NECESSARY

11. ALL CONSTRUCTION TRAFFIC, TEMPORARY TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL CONFORM TO REQUIREMENTS OF THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

12. SITE BEING ROUGH GRADED TO 12.5" BELOW FINISHED GRADE

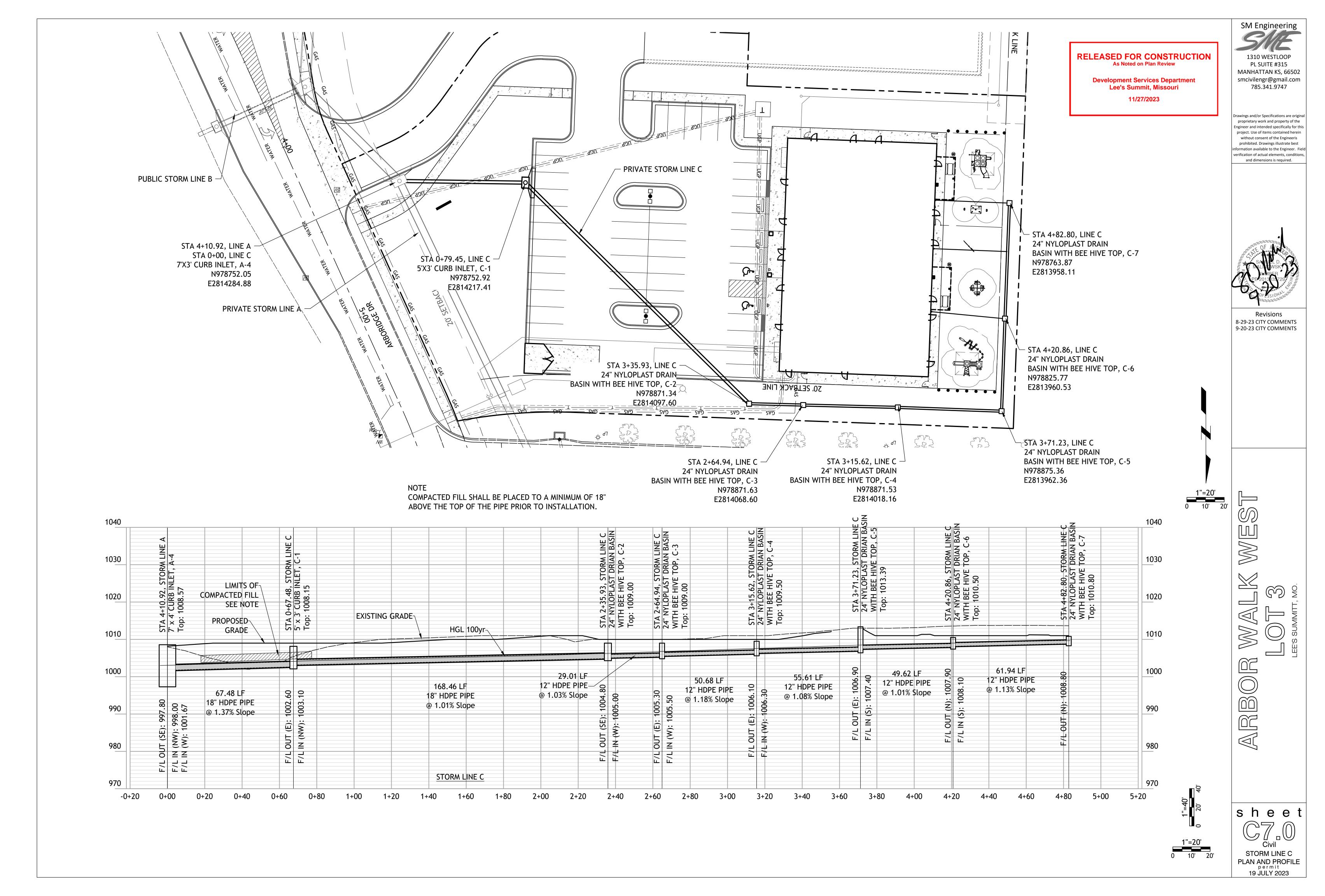
13. CONTRACTOR TO PLACE 8" LOW PERMEABILITY LVC FOR BUILDING PAD

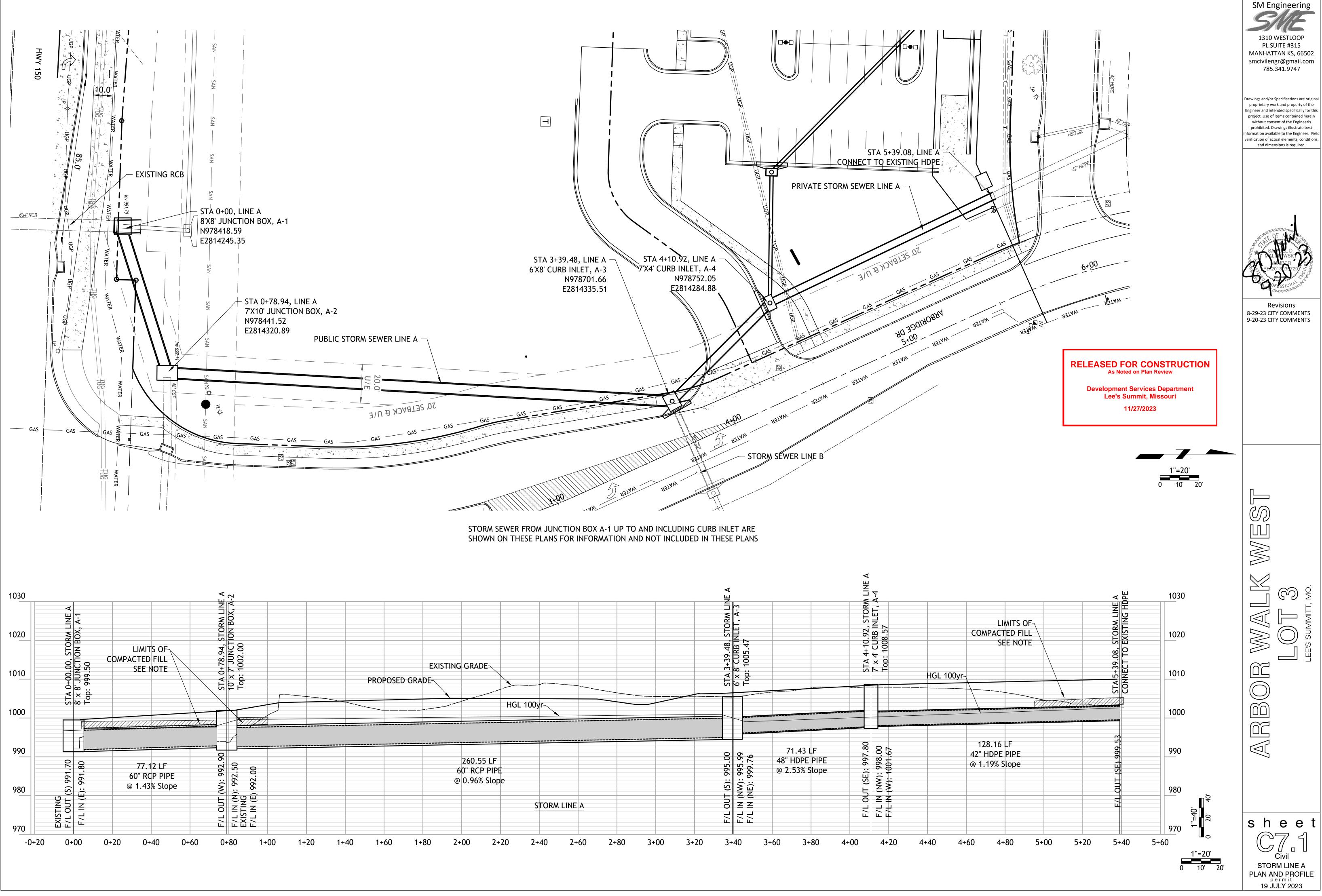


1"=30'

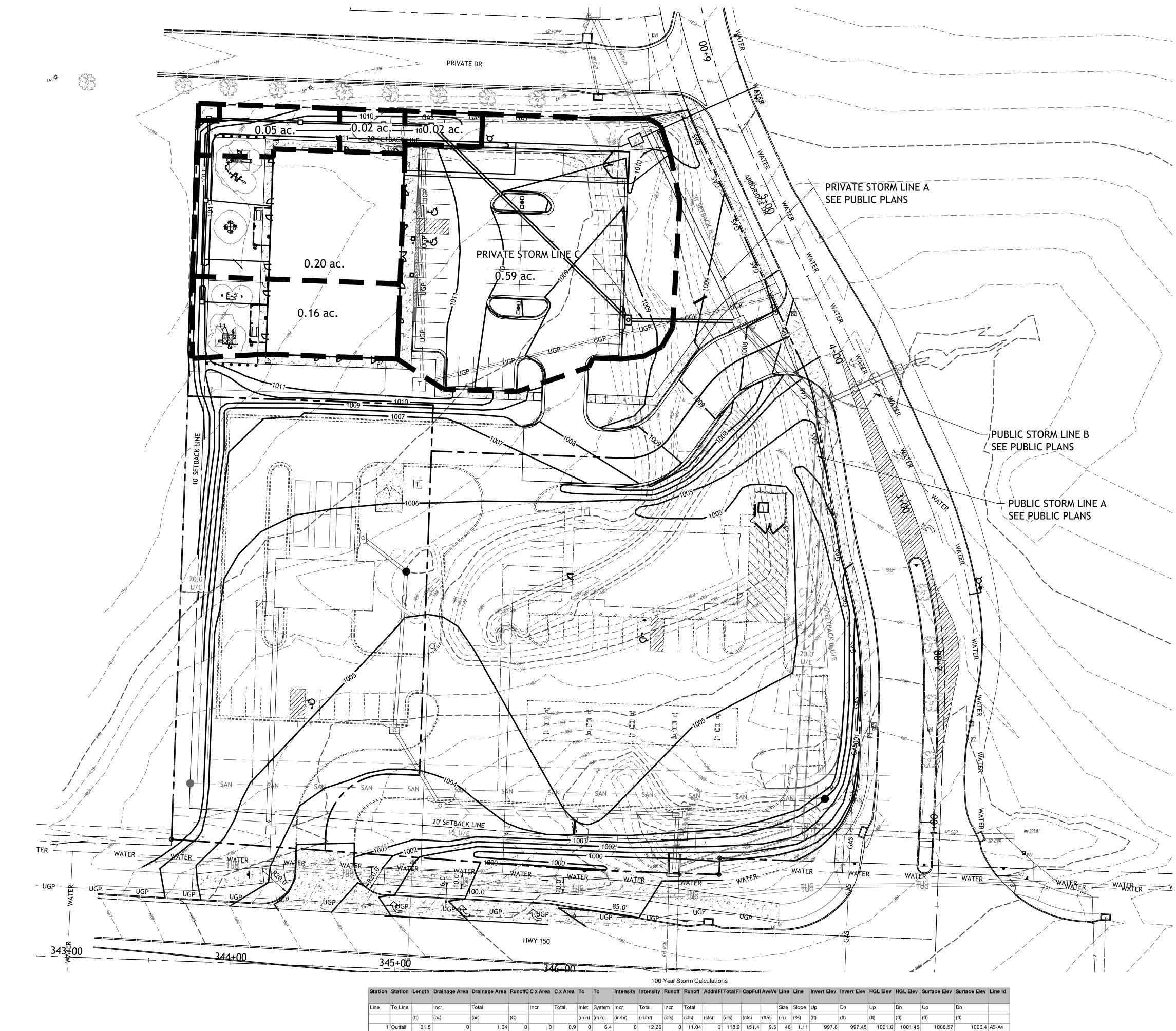
0 15' 30

SM Engineering





								LINE A				V LINE A	4-4	
EXISTING DE	GRADE-							+39.48, STORM	6' x 8' CURB INLET, A-3 Top: 1005.47			STA 4+10.92, STORM LINE /	4' CURB 1008.57	
		HGL 100y	/r											
6	260.55 LF 0" RCP PIPE 0.96% Slop	e	TORM LINE	<u>A</u>				F/L OUT (S): 995.00	F/L IN (NW): 995.99 F/L IN (NE): 999.76	71.43 48" HDPE @ 2.53% 1	PIPE	F/L OUT (SE): 997.80	F/L IN (NW): 998.00	F/LIN (W): 1001.67
80 2+	00 2+	20 2+	40 2+	-60	2+80	3+00	3+2		-40	3+60 3-	+80	4+00	4+	+20



1 67.48

2 168.46

4 3 29

5 4 50.68

6 5 55.61

7 6 49.62

8 7 61.94

9 1 128.16

3

0.59

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0.02

0.05

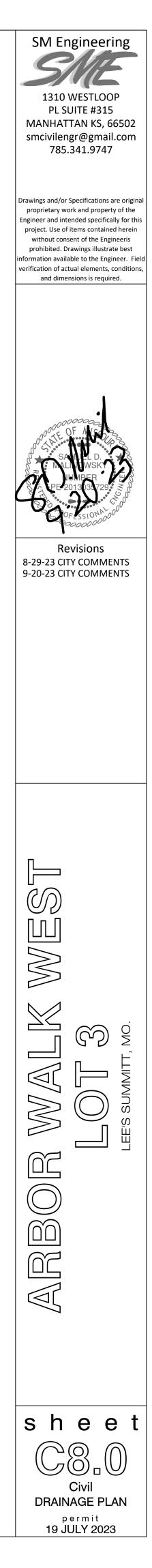
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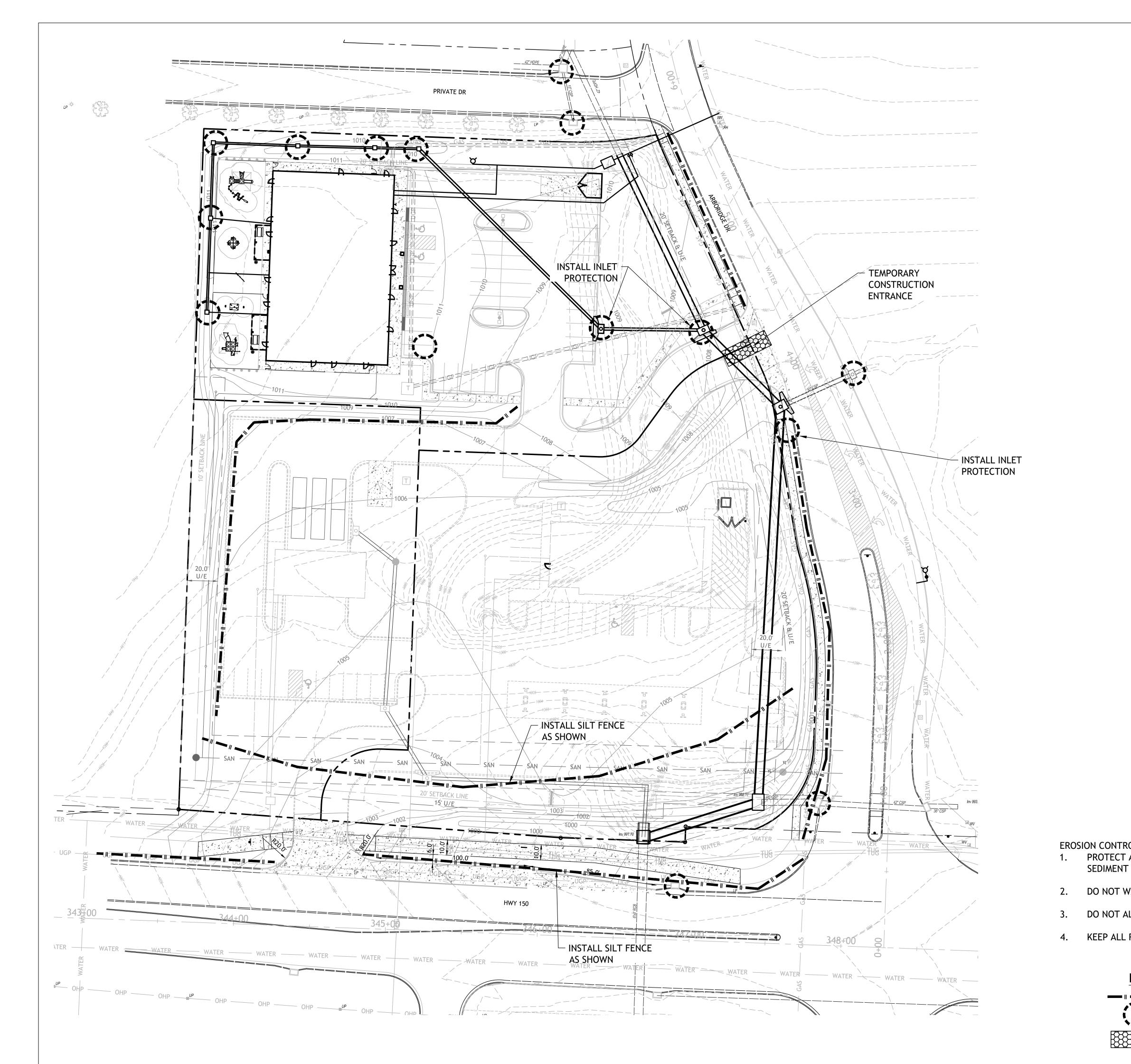
age Area	RunoffC	C x Area	C x Area	Тс	Тс	Intensity	Intensity	Runoff	Runoff	AddnIF	TotalFlo	CapFull	AveVe	Line	Line	Invert Elev	Invert Elev	HGL Elev	HGL Elev	Surface Elev	Surface Elev	Line Id
		Incr	Total	Inlet	System	Incr	Total	Incr	Total					Size	Slope	Up	Dn	Up	Dn	Up	Dn	
	(C)			(min)	(min)	(in/hr)	(in/hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1.04	0	0	0.9	0	6.4	0	12.26	0	11.04	0	118.2	151.4	9.5	48	1.11	997.8	997.45	1001.6	1001.45	1008.57	1006.4	A5-A4
1.04	0.95	0.56	0.9	5	6.3	12.9	12.32	7.23	11.09	0	11.09	13.36	6.28	18	1.38	1002.6	1001.67	1004.21	1003.57	1008.15	1008.57	A5 - C1
0.45	0.3	0.01	0.34	5	5.8	12.9	12.53	0.08	4.26	0	4.26	11.43	3.47	18	1.01	1004.8	1003.1	1005.59	1005.06	1009	1008.15	C1-C2
0.43	0.3	0.01	0.33	5	5.7	12.9	12.56	0.08	4.2	0	4.2	3.92	5.6	12	1.03	1005.3	1005	1006.21	1005.91	1009	1009	C2-C3
0.41	0.8	0.04	0.33	5	5.6	12.9	12.63	0.52	4.14	0	4.14	4.2	5.27	12	1.18	1006.1	1005.5	1007.17	1006.58	1009.5	1009	C3-C4
0.36	0.9	0	0.29	5	5.4	0	12.71	0	3.66	0	3.66	3.7	4.66	12	1.08	1006.9	1006.3	1008.09	1007.5	1013.39	1009.5	RD-C4
0.36	0.8	0.13	0.29	5	5.2	12.9	12.78	1.65	3.68	0	3.68	3.87	4.69	12	1.01	1007.9	1007.4	1008.98	1008.52	1010.5	1013.39	C5-C6
0.2	0.8	0.16	0.16	5	5	12.9	12.9	2.06	2.06	0	2.06	3.08	2.63	12	0.64	1008.5	1008.1	1009.49	1009.36	1010.8	1010.5	C6-C7
0	0	0	0	0	0	0	0	0	0	107.2	107.2	117.9	11.1	42	1.17	999.5	998	1004.02	1002.78	0	1008.57	A5-A6

RELEASED FOR CONSTRUCTION As Noted on Plan Review

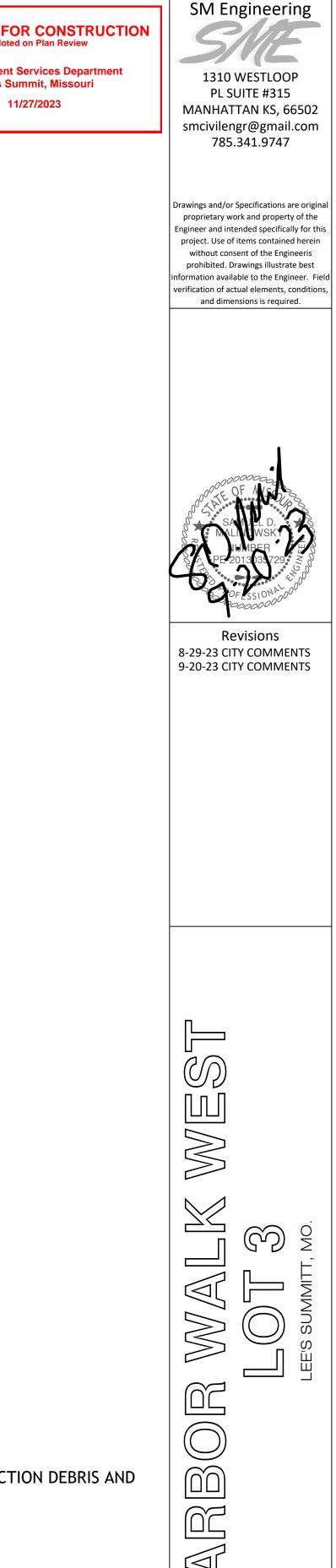
Development Services Department Lee's Summit, Missouri 11/27/2023



1"=30' 0 15' 30'



RELEASED FOR CONSTRUCTION As Noted on Plan Review **Development Services Department** Lee's Summit, Missouri



 \blacksquare shee \mathbb{S} Civil **EROSION CONTROL** permit 19 JULY 2023

NOTES:

1. Prior to Land Disturbance activities, the following shall occur: a) Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing and placement of physical barriers or other means acceptable to the City inspector and in conformance with the erosion and pollution control plan;

b) Construct a stabilized entrance/parking/staging area; c) Install perimeter controls and protect any existing stormwater inlets;

d) Request an initial inspection of the installed Phase I pollution control measures designated on the approved erosion and pollution control plan. Land disturbance work shall not proceed until there is a passed inspection 2. The site shall comply with all requirements of the MoDNR general requirements

a) Immediate initiation of temporary stabilization BMPs on disturbed areas where construction activities have temporarily ceased on that portion of the project site if construction activities will not resume for a period exceeding 14 calendar days. Temporary stabilization may include establishment of vegetation, geotextiles, mulches or other techniques to reduce or eliminate erosion until either final stabilization con be achieved or until further construction activities take place to re-disturb the area. This stabilization must be completed within 14 calendar days;

b) Inspection of erosion and sediment control measures shall be performed to meet or exceed the minimum inspection frequency in the MoDNR General Permit. At a minimum, inspections shall be performed during all phases of construction at least once every 14 days and within 24 hours of each precipitation event.

c) An inspection log shall be maintained and shall be available for review by the regulatory authority; d) The erosion and pollution control plan shall be routinely updated to show all modifications and amendments to the original plan. A copy of the erosion and pollution control plan shall be kept on site and made available for review by the regulatory

authority. 3. Temporary seeding shall only be used for periods not to exceed 12 months. For final stabilization. temporary seeding shall only be used to establish vegetation outside the permanent seeding or sodding dates as specified in the Standard Specifications. Final stabilization requires a uniform perennial vegetative cover with a density of 70% over 100% of disturbed area.

4. Erosion and pollution control shall be provided for the duration of a project. All installed erosion and pollution control BMPs shall be maintained in a manner that preserves their effectiveness. If the City determines that the BMPs in place do not provide adequate erosion and pollution control at any time during the project, additional or alternate measures

that provide effective control shall be required. 5. Concrete wash or rinse water from concrete mixing equipment. Tools and/or ready-mix trucks. etc. may not be discharged into or be allowed to run to any existing water body or portion of the storm water system. One or more locations for concrete washout will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place. Proper signage will be installed to direct users to the concrete washout. Concrete washouts must be handled prior to pouring any concrete.

6. Silt fences and sediment control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction. However, anticipated disturbance by utility construction shall not delay installation.

7. Required sediment basins and traps shall be installed as early as possible during mass grading. Sediment basins and traps shall be cleaned out when the sediment capacity has been reduced by 20% of its original design volume.

8. All manufactured BMPs such as erosion control blankets, TRMs, biodegradable logs, filter socks, synthetic sediment barriers and hydraulic erasion control shall be installed as directed by the manufacturer. 9. The above requirements are the responsibility of the

permittee for the site. Responsibility may be transferred to another party by the permittee, but the permittee shall remain liable by the City of Lee's Summit if any of the above conditions are not met.

EROSION CONTROL NOTES

PROTECT ALL STORM INLETS AND DRAINAGE CONVEYANCE FROM CONSTRUCTION DEBRIS AND

DO NOT WASH CONCRETE TRUCKS INTO THE STORM SYSTEM.

DO NOT ALLOW SEDIMENT TO LEAVE CONSTRUCTION SITE.

KEEP ALL ROADS FREE FROM CONSTRUCTION DEBRIS AND SEDIMENT.

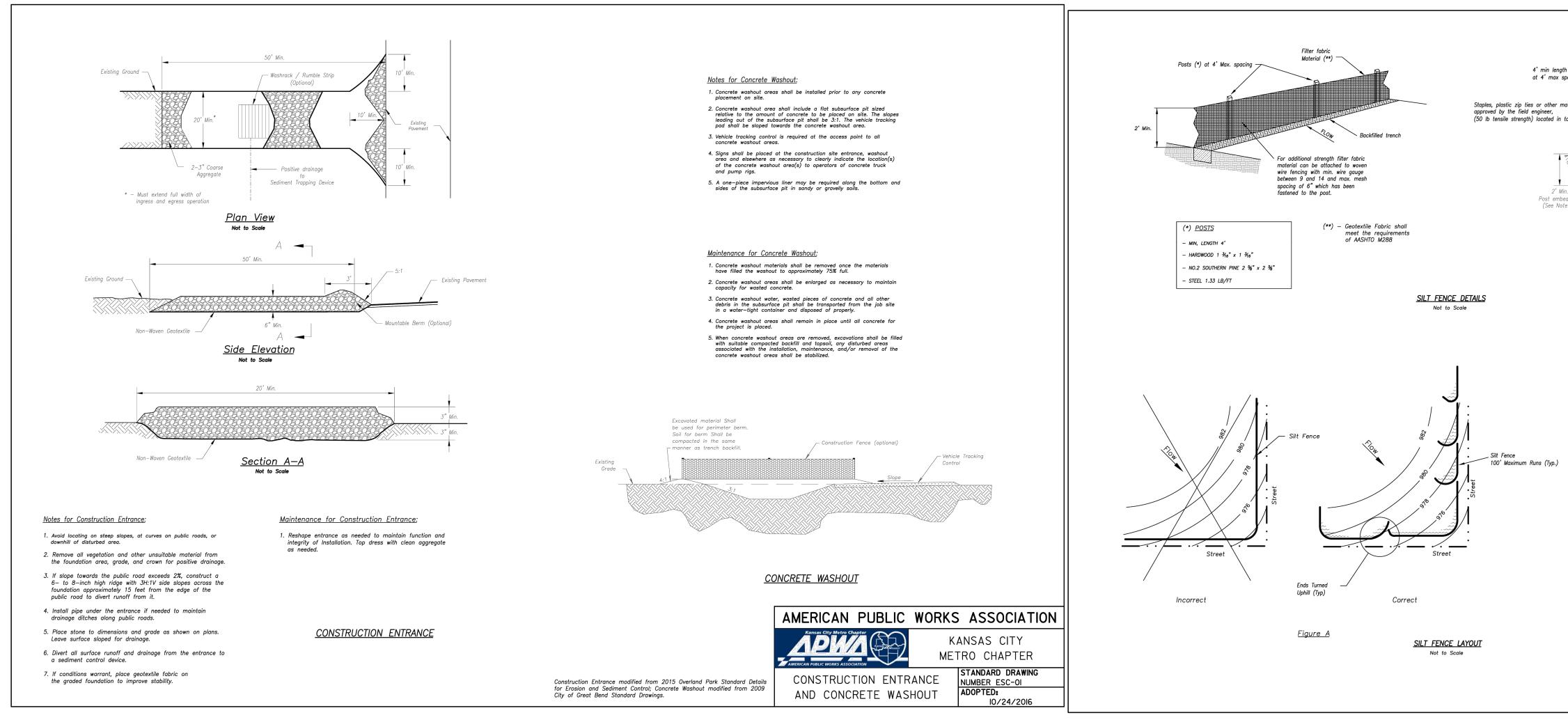


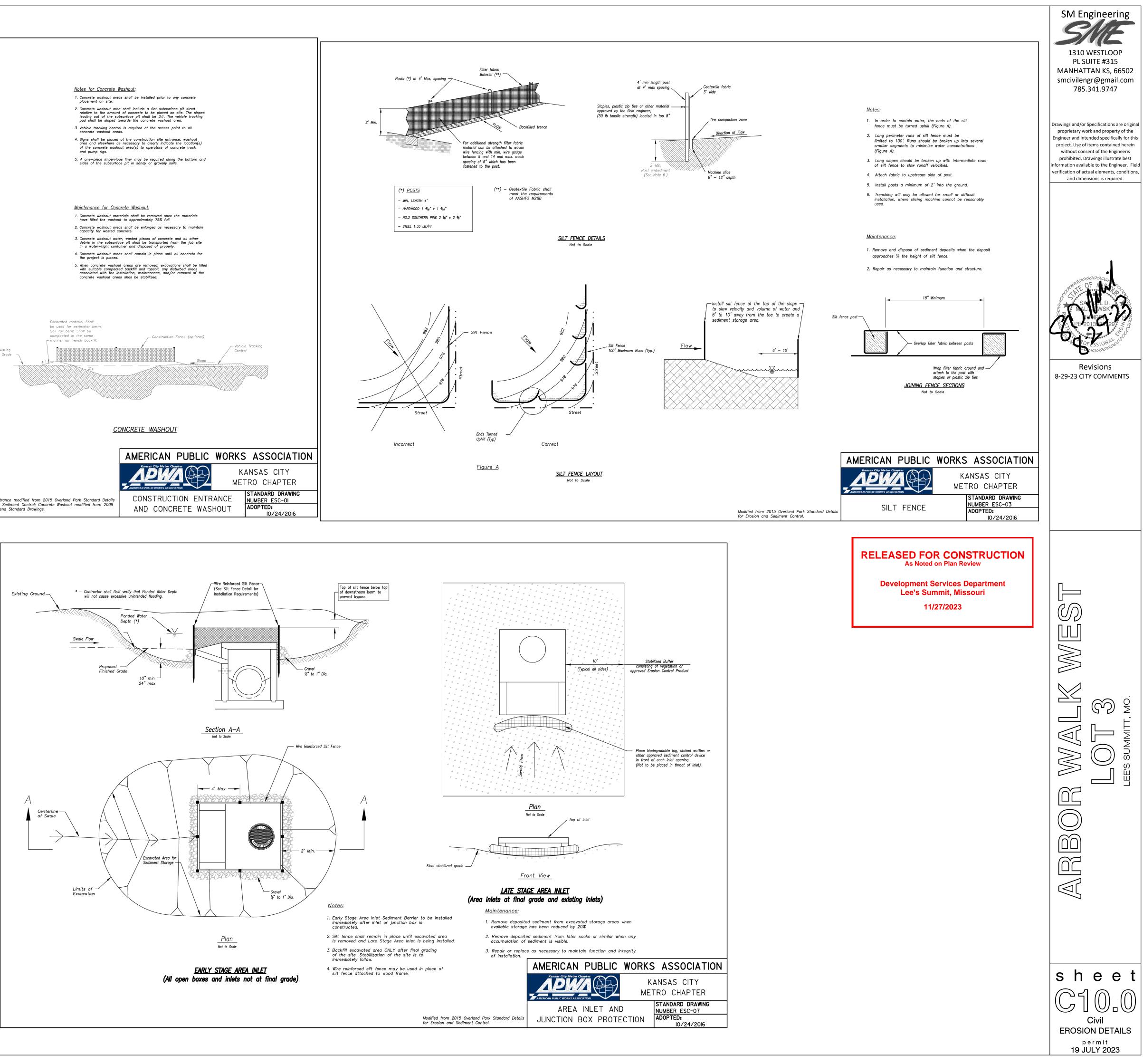
___ SILT FENCE

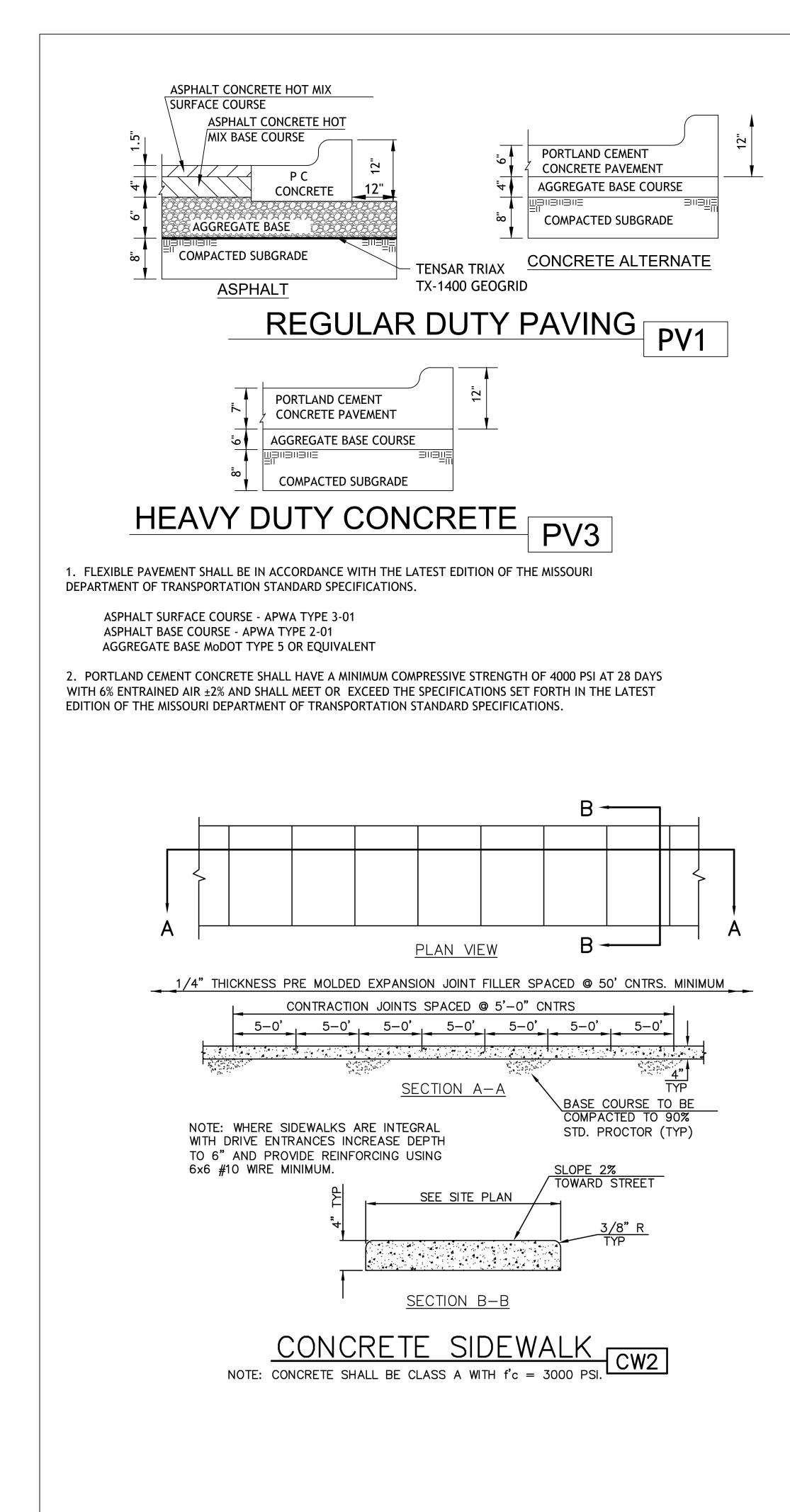
INLET PROTECTION

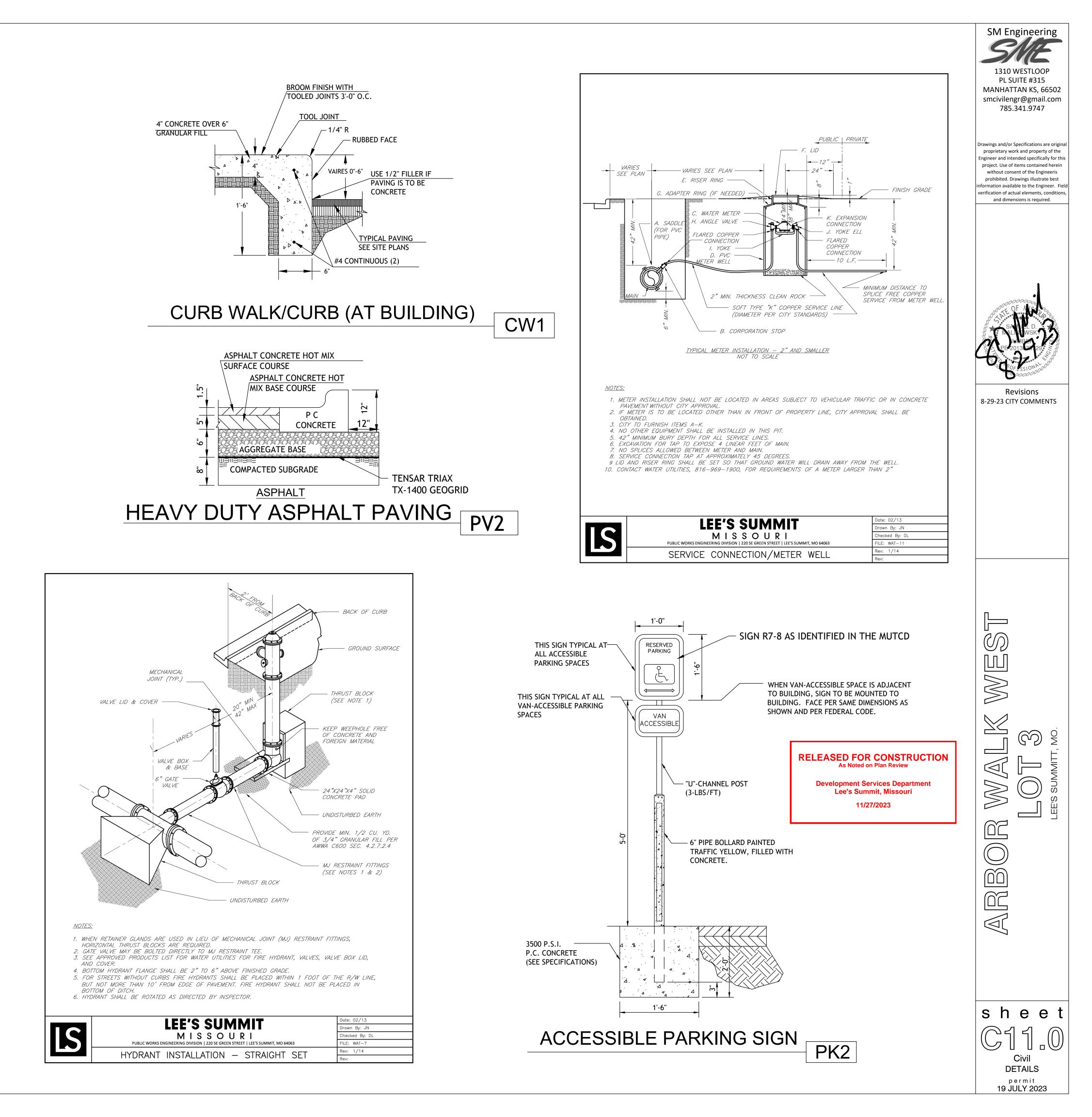
TEMPORARY CONSTRUCTION ENTRANCE

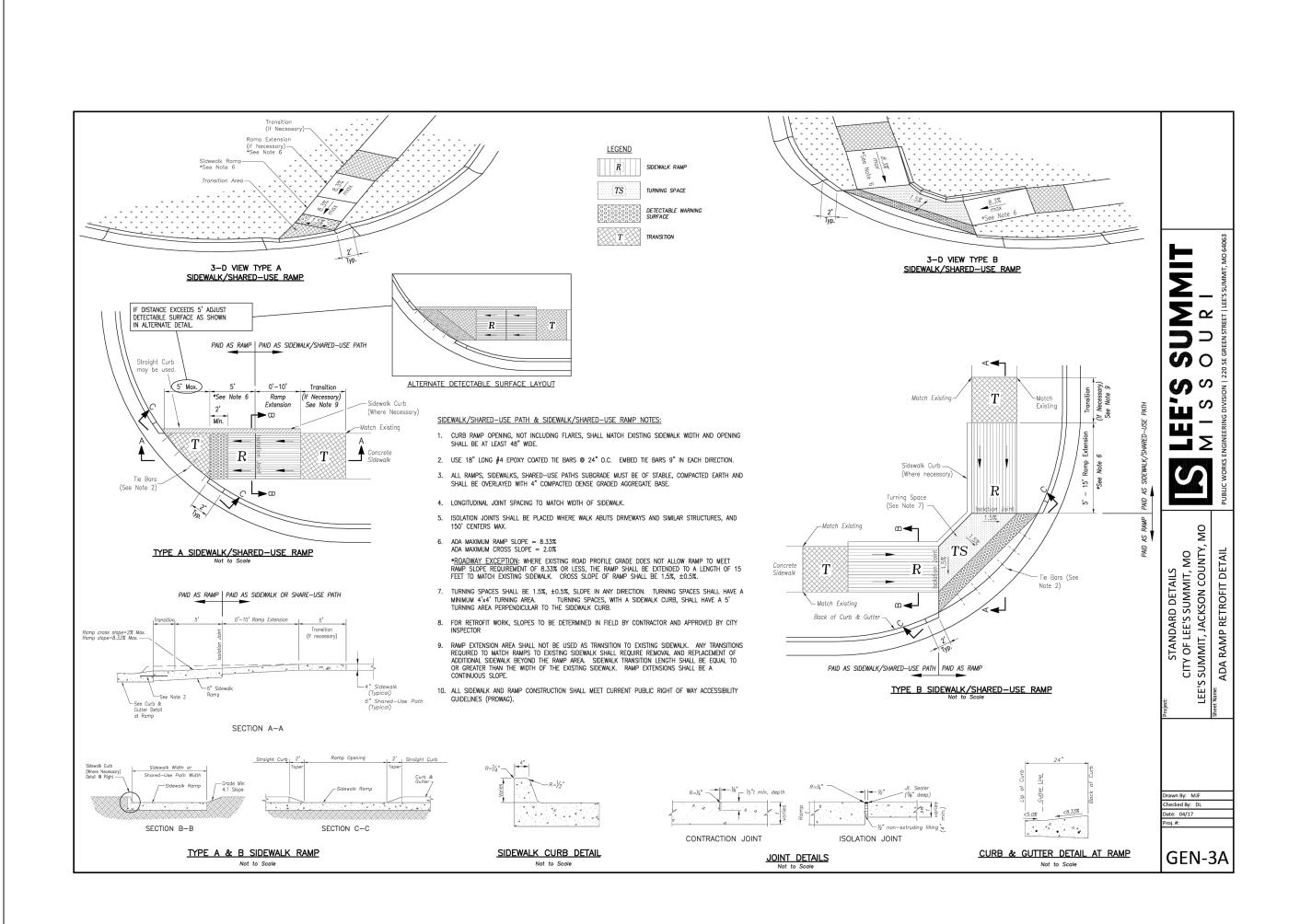
1"=30' 0 15' 30

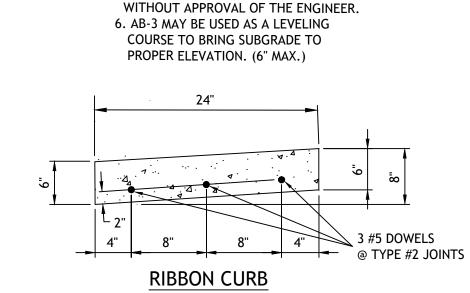












NOTES:

1. ALL CONCRETE SHALL BE KCMMB-4K

3. A TYPE 2 JOINT SHALL BE PLACED

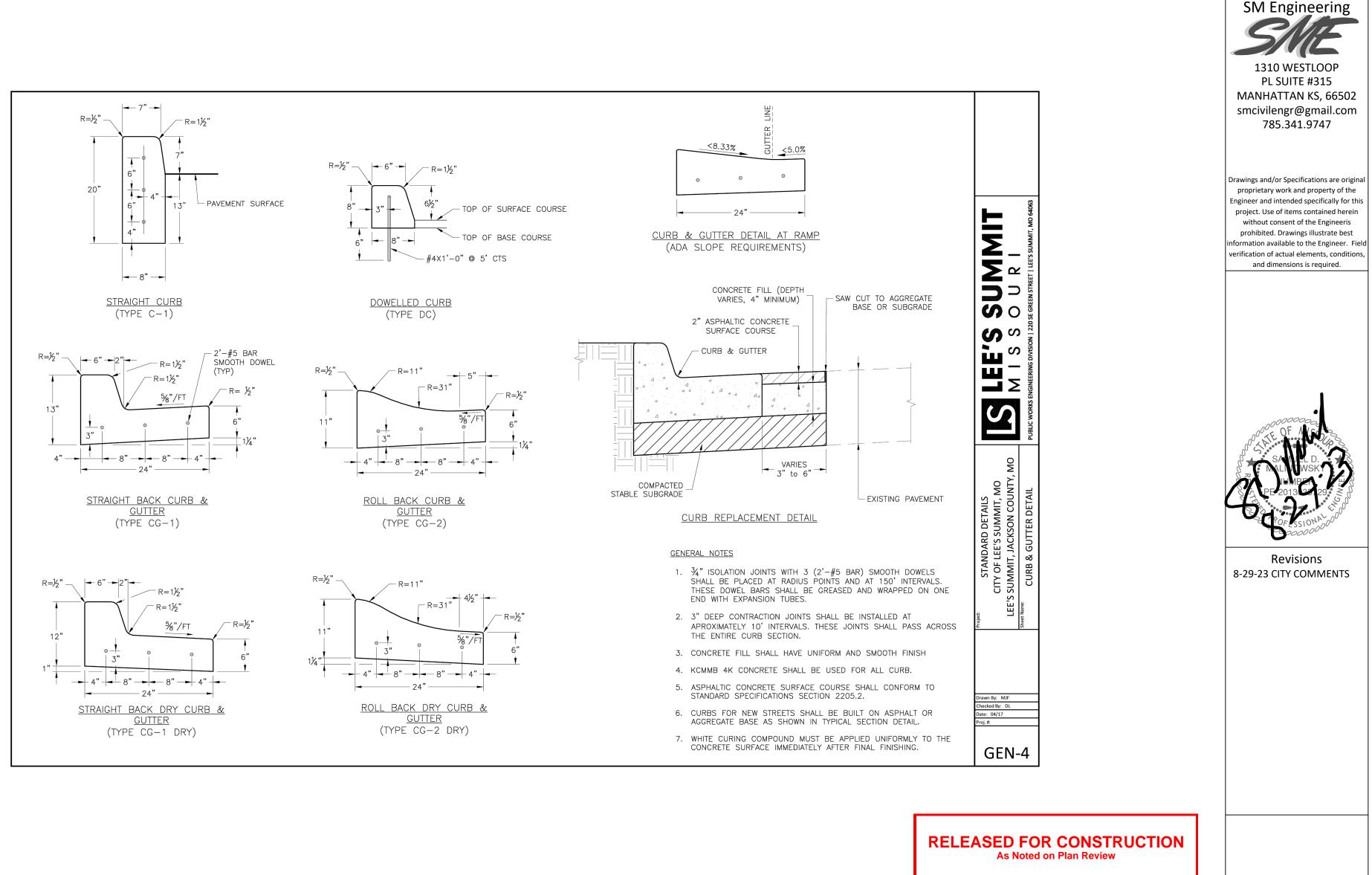
4. A TYPE 1 JOINT SHALL BE PLACED

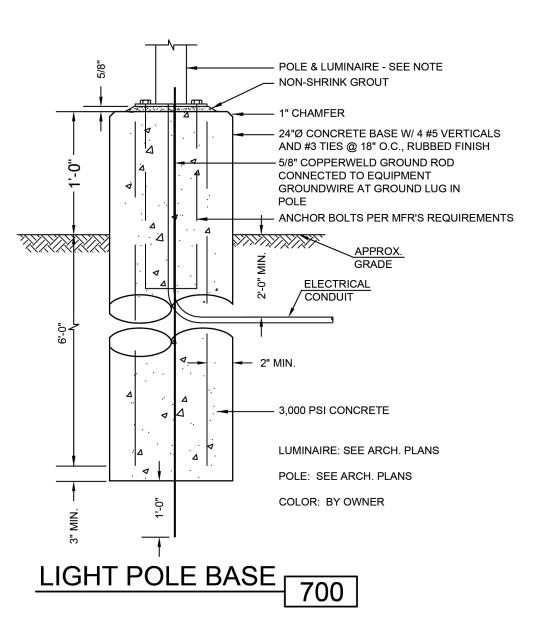
5. TYPE "E" CURB SHALL NOT BE USED

2. ALL JOINTS WITH EXISTING CURB SHALL BE TYPE 2 JOINTS.

AT ALL CURB RETURNS.

AT 15' CENTERS.



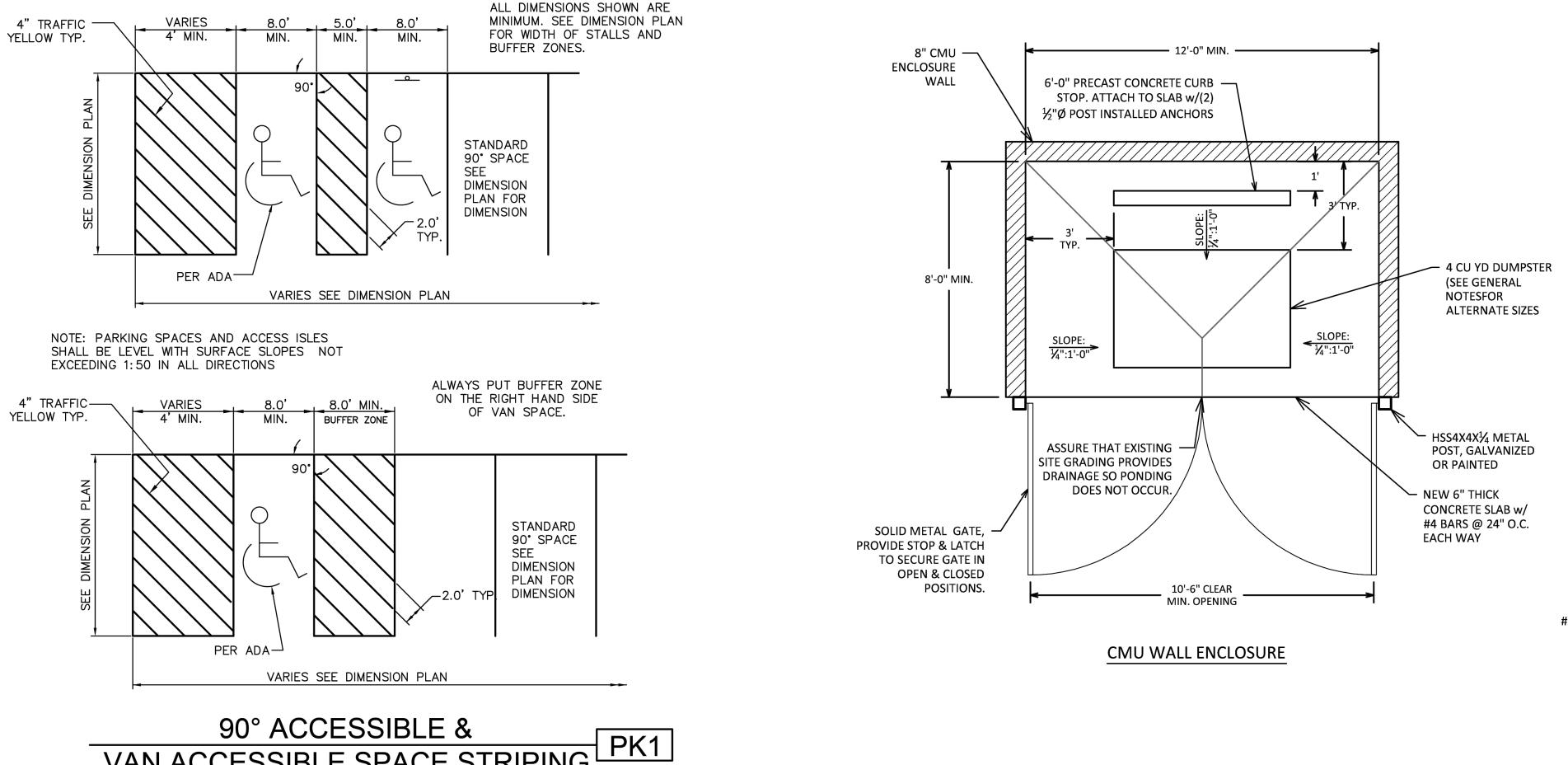


Development Services Department Lee's Summit, Missouri

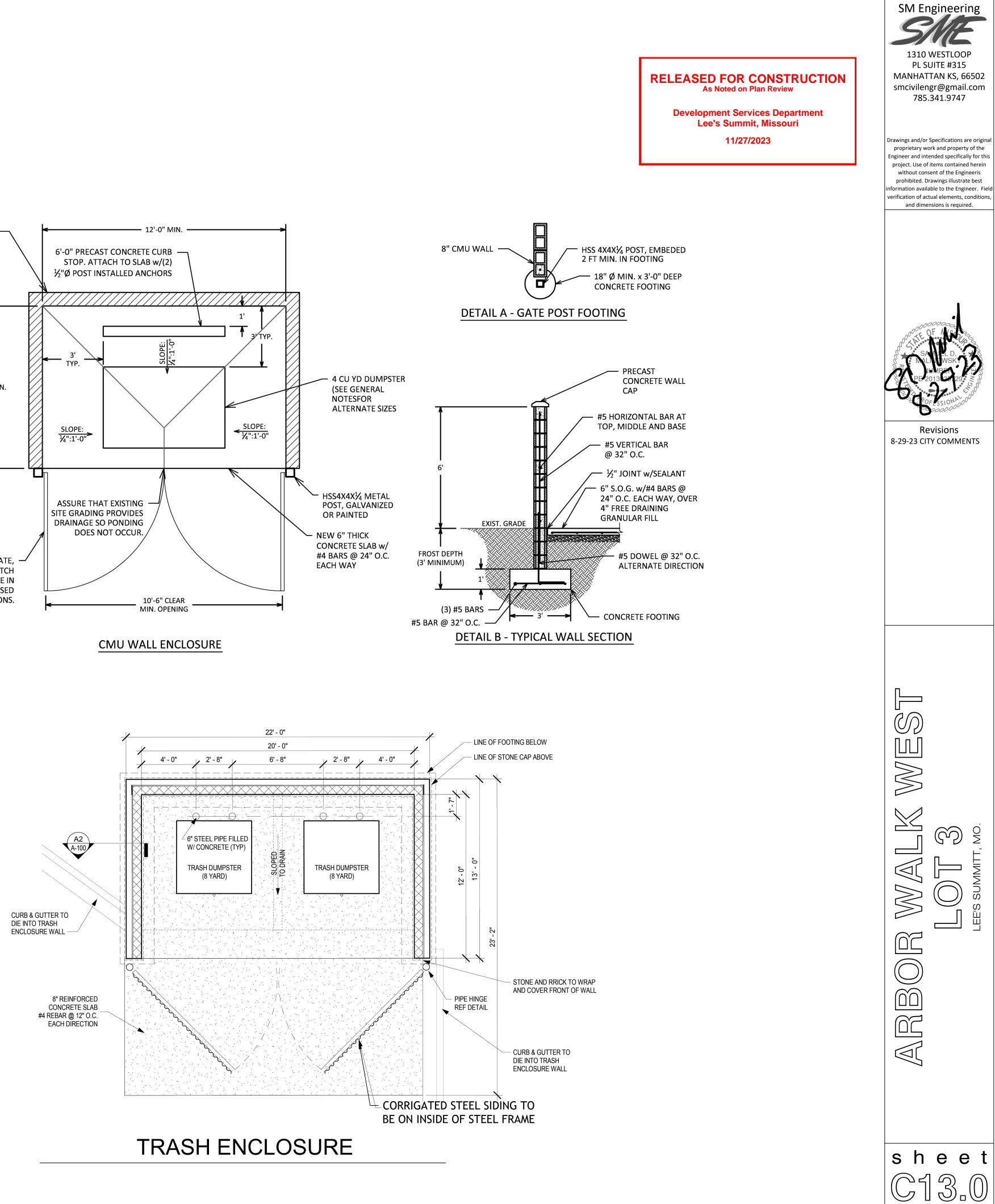
11/27/2023

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> DETAILS permit 19 JULY 2023

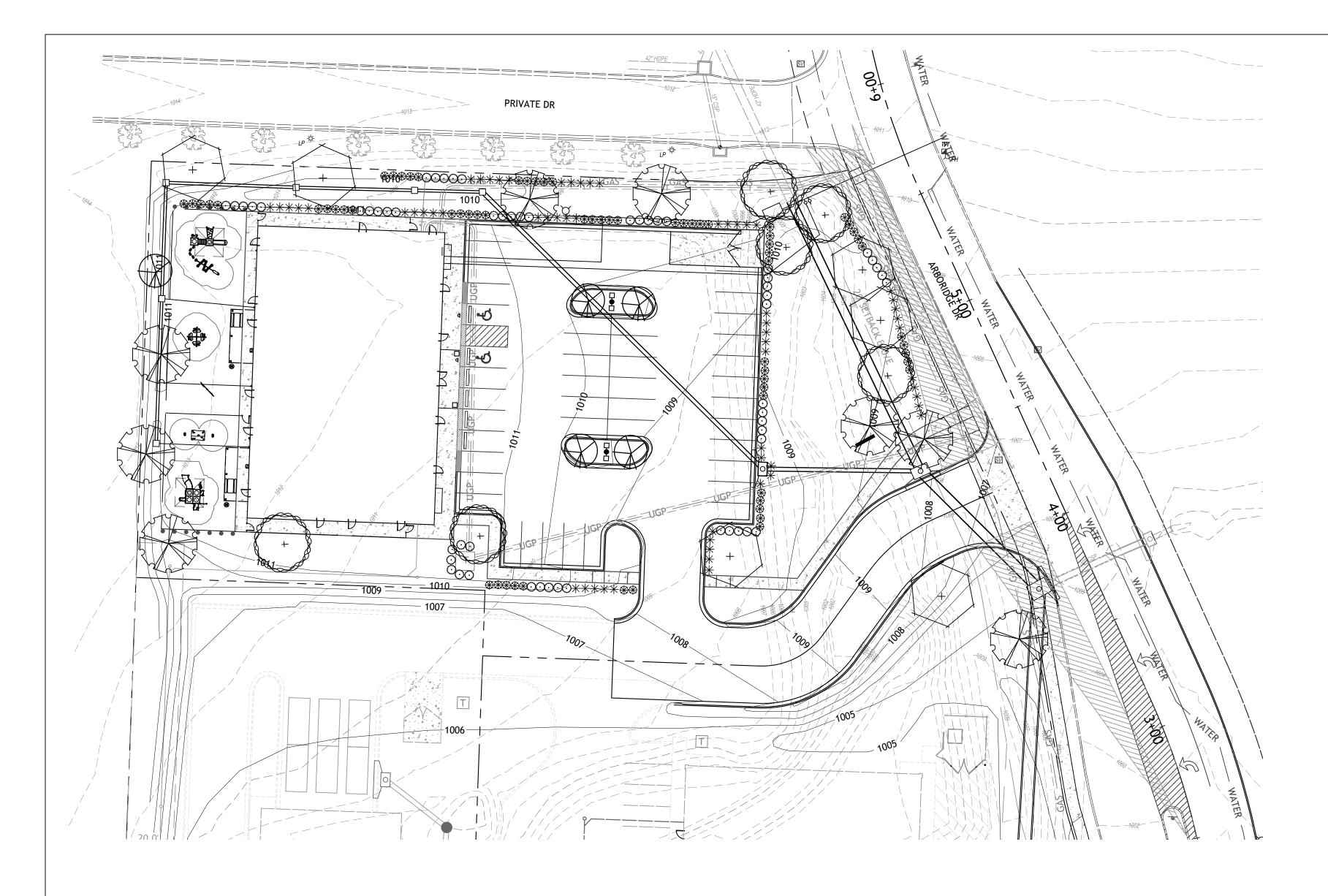


VAN ACCESSIBLE SPACE STRIPING



Civil DETAILS

permit **19 JULY 2023**



LANDSCAPE NOTES

CONTRACTOR REQUIRED TO LOCATE ALL UTILITIES BEFORE BEGIN.

CONTRACTOR SHALL VERIFY ALL LANDSCAPE MATERIAL QUANTITIES AND SHALL REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

NO PLANT MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT LANDSCAPE ARCHITECT OR OWNERS APPROVAL.

CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE WORK AND PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF THE WORK BY THE OWNER. ANY PLANT MATERIAL WHICH DIES DURING THE ONE YEAR GUARANTEE PERIOD SHALL BE REPLACED BY THE CONTRACTOR DURING NORMAL PLANTING SEASONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE PLANTS UNTIL COMPLETION OF THE JOB AND ACCEPTANCE BY THE OWNER.

ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY STOCK AS DETERMINED IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN, FREE OF PLANT DISEASES AND PEST, OF TYPICAL GROWTH OF THE SPECIES AND HAVING A HEALTHY, NORMAL ROOT SYSTEM.

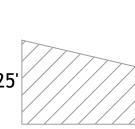
SIZES INDICATED ON THE PLANT LIST ARE THE MINIMUM, ACCEPTABLE SIZE. IN NO CASE WILL SIZES LESS THAN SPECIFIED BE ACCEPTED.

ALL SHRUB BEDS WITHIN LAWN AREAS TO RECEIVE A MANICURED EDGE.

ALL SHRUB BEDS SHALL BE MULCHED WITH 3" OF SHREDDED CEDAR MULCH.

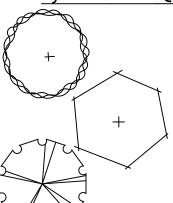
ALL AREAS TO BE FERTILIZED & SODDED WITH A TURF-TYPE-TALL FESCUE SEED BLEND.

LOT 1 SITE DATA:				LOT 2 SITE DATA:
HWY 150 264' REQUIRED: STREET TREES 1/3 PARKING LOT SHRU		= =	•	HWY 150 117' REQUIRED: STREET TREES 1/ PARKING LOT SHF
PROVIDED: SHADE TREES SHRUBS		= =	9 80	PROVIDED: SHADE TREES SHRUBS
ARBORIDGE DRIVE REQUIRED: STREET TREES 1/3 PARKING LOT SHRU PROVIDED:	0'	= =	6 56	INTERIOR PARKIN TOTAL PARKING S REQUIRED 5% LANDSCAPE AF PROVIDED
SHADE TREES SHRUBS		= =	9 56	OPEN SPACE TREE TOTAL SITE BUILDING AREA
INTERIOR PARKING TOTAL PARKING SU REQUIRED 5% LANDSCAPE ARI PROVIDED	JRFACE =	13,86 = =	9sf 693sf 992sf	OPEN SPACE REQUIRED TREES 1 / 5,000sf PROVIDED
BUILDING AREA	1.51ac (65,7	775sf)		SHADE TREES ORNAMENTALS OPEN SPACE SHRI REQUIRED
REQUIRED TREES 1 / 5,000sf		=	12	2 / 5,000sf PROVIDED
PROVIDED SHADE TREES ORNAMENTALS		= =	5 7	
OPEN SPACE SHRU REQUIRED 2 / 5,000sf PROVIDED	BS	= =	24 36	



E INSTALLATION TO

Shrub Li Symbol	st Quantity	Common Name	Botanical Name	Size	Condition	Spacing
	— 102	Seagreen Juniper	Juniperus Chinensis 'Seagreen'	18"-24"sp.	Cont.	4'o.c.
\bigotimes	— 67	Dwarf Winged Euonymus	Euonymus Alatus 'Compactus'	18"-24"sp.	Cont.	4'o.c.
*	— 60	Morning Light Maiden Gra	ss Miscanthos Sinensis 'Morning Light'	18"-24"sp.	Cont.	4'o.c.
Tree Lis <u>Symbol</u>		v Common Name	Botanical Name	Size	Condition	Spacing
+	6	October Glory Maple	Acer Rubrum 'October Glory'	3" cal	BB	As Shown
	+ 6	Skyline Honeylocust	Gleditsia Triacanthos 'Skyline'	3" cal	BB	As Shown
- And	8	Swamp White Oak	Quercus Bicolor	3"cal	BB	As Shown

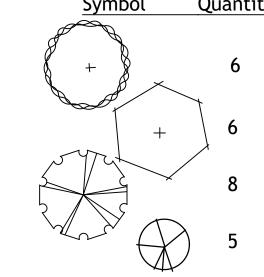


tity	Common Name	Botanical Name	Size	Condition	Spacing	
2	Seagreen Juniper	Juniperus Chinensis 'Seagreen'	18"-24"sp.	Cont.	4'o.c.	
	Dwarf Winged Euonymus	Euonymus Alatus 'Compactus'	18"-24"sp.	Cont.	4'o.c.	
	Morning Light Maiden Gra	ss Miscanthos Sinensis 'Morning Light'	18"-24"sp.	Cont.	4'o.c.	
ntity	Common Name	Botanical Name	Size	Condition	Spacing	
6	October Glory Maple	Acer Rubrum 'October Glory'	3" cal	BB	As Shown	
5	Skyline Honeylocust	Gleditsia Triacanthos 'Skyline'	3" cal	BB	As Shown	
2	Swamp White Oak	Quercus Bicolor	3"cal	BB	As Shown	
	Swamp white out		5 cut			
ō	Golden Raintree	Koelreuteria Paniculata	3"cal	BB	As Shown	



Free Standing Transformer

Against Wall



ΓΑ:		
17'		
1/30' SHRUBS 12/40'	= =	4 35
	= =	4 35
(ING G SURFACE =	8,764	sf
AREA	=	438sf 1,253sf
REES 0.93ac (40,5 A 1,800sf 38,710sf	i10sf)	
EES	=	8
	= =	5 3
HRUBS		
	=	12 21

	=	10 89
SHADE TREES	= = =	6 4 90
	=	8 70
	=	8 70
REQUIRED 5% LANDSCAPE AREA	=	16,788sf 893sf 1,111sf
OPEN SPACE TREES TOTAL SITE 1.45ac (63,16 BUILDING AREA 10,000sf OPEN SPACE 56,646sf	52sf)	
REQUIRED TREES 1 / 5,000sf	=	11
	=	6 5
	=	22 31

LOT 3 SITE DATA:

1/////// 150'

SIGHT TRIANGLE

RELEASED FOR CONSTRUCTION As Noted on Plan Review

Development Services Department Lee's Summit, Missouri 11/27/2023

Typical Utility Box Screening Details

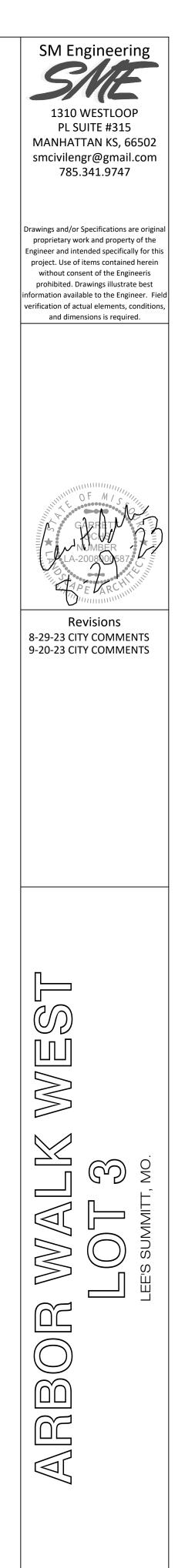
No Scale

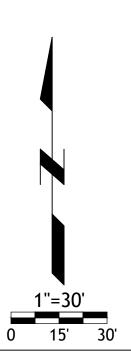




Free Standing Small Box

UTILITY BOXES SHALL BE CLUSTERED AS MUCH AS POSSIBLE





sheet

Civil

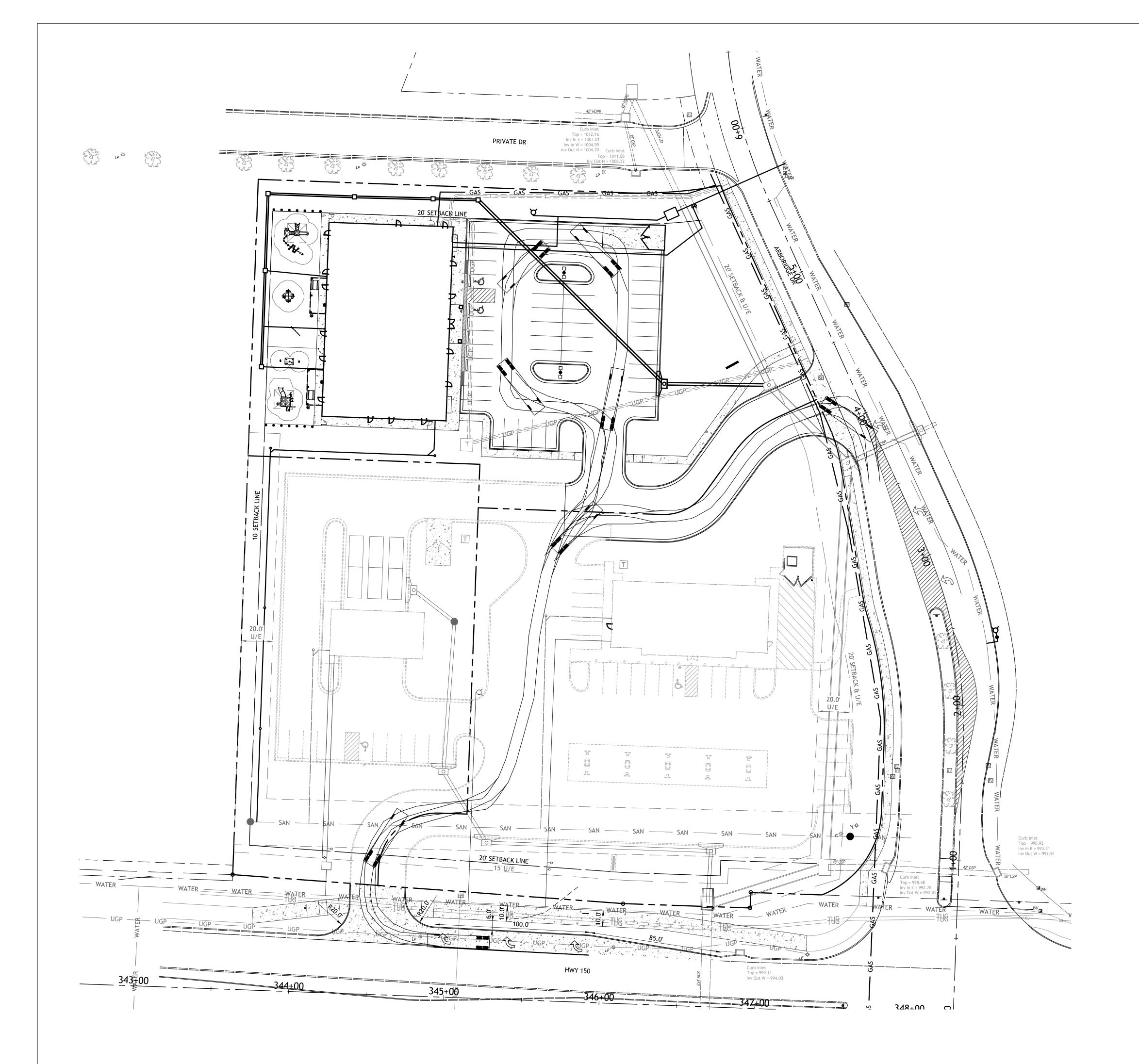
LANDSCAPE

permit

19 JULY 2023

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SM Engineering 1310 WESTLOOP PL SUITE #315 **RELEASED FOR CONSTRUCTION** MANHATTAN KS, 66502 As Noted on Plan Review smcivilengr@gmail.com 785.341.9747 **Development Services Department** Lee's Summit, Missouri 11/27/2023 Drawings and/or Specifications are original proprietary work and property of the Engineer and intended specifically for this project. Use of items contained herein without consent of the Engineeris prohibited. Drawings illustrate best formation available to the Engineer. Field verification of actual elements, conditions, and dimensions is required. Revisions 8-29-23 CITY COMMENTS 9-20-23 CITY COMMENTS MESIW () \bigcirc A R B O R sheet C15.0 civil FIRE TRUCK 1"=30' 0 15' 30' MOVEMENTS permit 19 JULY 2023