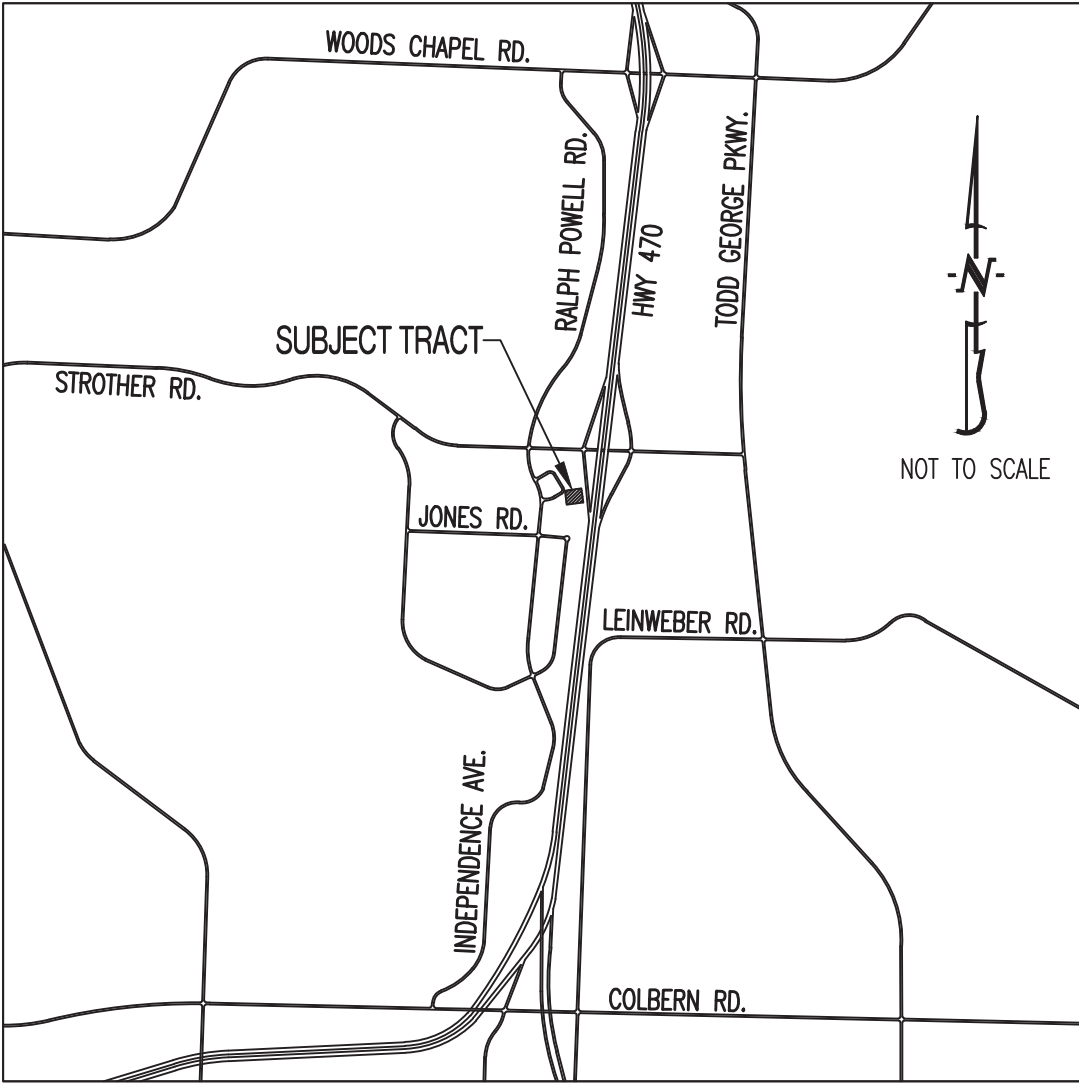


KANSAS CITY SURGICAL & DENTAL OFFICE

LOCATION MAP



PROJECT BENCHMARK:

TBM #1 – NORTHWEST BOLT OF FIRE HYDRANT LOCATED APPROX. 143' NORTHWEST OF THE NORTHWEST CORNER OF LOT 4A, STROTHER CROSSING, PLAT NO. 1-A.
N = 1019649.4102
E = 2828361.3997
TOP ELEVATION = 991.07

TBM #2 – CHISELED SQUARE AT SOUTHEAST CORNER OF TRANSFORMER PAD LOCATED APPROX. 100' NORTH OF THE SOUTHWEST CORNER OF LOT 4C, STROTHER CROSSING, PLAT NO. 1-A.
N = 1019152.9635
E = 2828173.5172
TOP ELEVATION = 980.62

COORDINATES IN NAD83 MISSOURI STATE PLANE, WEST ZONE

FLOOD PLAIN STATEMENT:

NO PART OF THIS TRACT IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN AS PER THE FIRM MAP #29095C04306, DATED JANUARY 20, 2017.

LEGAL DESCRIPTION:

LOT 4A OF STROTHER CROSSING, PLAT NO. 1-A, A REPLAT OF LOT 4, STROTHER CROSSING – 1ST PLAT, LOTS 1 THRU 4, LOCATED IN SECTION 20, TOWNSHIP 48, RANGE 31, LEE'S SUMMIT, JACKSON COUNTY, MISSOURI.

UTILITY COMPANIES:

LOCATES:

MISSOURI ONE CALL INC.
1022 B NORTHEAST DRIVE
JEFFERSON CITY, MO 65109
1-800-344-7483

TELEPHONE:

AT&T
215 N. SPRING
INDEPENDENCE, MO
816-325-5610

NATURAL GAS:

SPIRE ENERGY
3025 SE CLOVER DRIVE
LEE'S SUMMIT, MO 64082
816-969-2266
CONTACT: BOBBIE SAULSBERRY

CABLE TELEVISION:

TIME WARNER
6550 WINCHESTER AVENUE
KANSAS CITY, MO
913-643-1901

WATER:

CITY OF LEE'S SUMMIT
DEPARTMENT OF PUBLIC WORKS
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063
816-969-1900

SANITARY SEWER:

CITY OF LEE'S SUMMIT
DEPARTMENT OF PUBLIC WORKS
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063
816-969-1900

ELECTRIC:

KCP&L
130 SE HAMLEN ROAD
LEE'S SUMMIT, MO
816-347-4320

GENERAL NOTES:

ALL STREET & STORM CONSTRUCTION TO BE IN ACCORDANCE WITH "CITY OF LEE'S SUMMIT STREET AND STORM SEWER SPECIFICATIONS AND STANDARDS" (CURRENT EDITION).

ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH "THE CITY OF LEE'S SUMMIT STANDARD SANITARY SEWER SPECIFICATIONS. (CURRENT EDITION)

REFER TO CITY STANDARD DETAILS. CONTRACTOR TO HAVE A COPY OF THE CITY'S LATEST EDITION OF SPECIFICATIONS AND STANDARDS FOR ALL STREET, STORM, AND SANITARY CONSTRUCTION ON SITE AT ALL TIMES DURING CONSTRUCTION.

CONTRACTOR WILL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THEIR PORTION OF WORK. THE DEVICES AND METHODS EMPLOYED WILL COMPLY WITH THE CURRENT VERSION OF THE MANUAL ON UNIFIED TRAFFIC CONTROL DEVICES.

THIS TRACT CONTAINS APPROXIMATELY 40,985 SQ.FT. (0.94 ACRES).

THIS TRACT IS ZONED CP-2 PLANNED COMMUNITY COMMERCIAL.

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES (HORIZONTAL AND VERTICAL) PRIOR TO ANY EXCAVATION.

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

A GEOTECHNICAL EVALUATION OF THE SUBSURFACE SOIL, GROUNDWATER CONDITIONS, AND A SLOPE STABILITY ANALYSIS HAS NOT BEEN PERFORMED BY THIS ENGINEER. THE OWNER SHALL SATISFY THEMSELVES OF ALL GEOTECHNICAL CONDITIONS PRIOR TO ANY CONSTRUCTION.

ALL LAND DISTURBANCE ACTIVITIES SHALL BE IN ACCORDANCE WITH CITY OF LEE'S SUMMIT CODE OF ORDINANCES.

ANY FILL PLACEMENT WITHIN STREET RIGHT-OF-WAY SHALL BE INSPECTED BY THE CITY OF LEE'S SUMMIT.

REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR NARRATIVE REPORT AND BMP DESCRIPTIONS AND DETAILS.

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE MOENR CLEAN WATER COMMISSION.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" SHALL BE FINE GRADED, SEEDED, AND MULCHED.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

ALL SERVICE LATERALS SHALL BE INSTALLED AS PER CITY OF LEE'S SUMMIT REQUIREMENTS AT 2.0% (MIN.) GRADE.

ALL EXCAVATION WITHIN THE STREET RIGHT-OF-WAY SHALL BE BACKFILLED PER CURRENT CITY OF LEE'S SUMMIT SPECIFICATIONS.

ALL SEWERLINES SHALL BE CONSTRUCTED AT LEAST 10 FEET HORIZONTALLY, EDGE TO EDGE, FROM ANY WATERLINE AND AT LEAST 24 INCHES VERTICALLY BETWEEN THE OUTSIDE LIMITS OF THE SANITARY SEWER AND WATERLINE. FOR CONDITIONS OTHER THAN THOSE IDENTIFIED ABOVE, CONTACT THE ENGINEER FOR SPECIFIC INSTRUCTIONS.

ALL STORM SEWER PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL FOR PIPE BEDDING REQUIREMENTS.

IN ORDER TO TERMINATE A STATE OPERATING PERMIT THE MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR) REQUIRES THAT THE PERMITTEE SUBMIT A COMPLETED FORM H (INCLUDED WITH THE APPROVAL PERMIT) TO THE MDNR. A PERMIT IS ELIGIBLE FOR TERMINATION WHEN EITHER PERENNIAL VEGETATION, PAVEMENT, BUILDINGS, OR STRUCTURES USING PERMANENT MATERIALS COVER ALL AREAS THAT HAVE BEEN DISTURBED. VEGETATIVE COVER SHALL BE AT LEAST 70% OF FULLY ESTABLISHED PLANT DENSITY OVER 100% OF THE DISTURBED AREA. A COPY OF FORM H SHOULD BE SUBMITTED TO THE CITY AT WHICH TIME THE CITY WILL REMOVE THE PROJECT FROM ITS INSPECTION SCHEDULE.

LAND DISTURBANCE SITES SHOULD BE INSPECTED ON A REGULAR SCHEDULE AND WITHIN A REASONABLE TIME PERIOD (NOT TO EXCEED 48 HOURS) FOLLOWING HEAVY RAINS. REGULARLY SCHEDULED INSPECTIONS SHALL BE AT A MINIMUM OF ONCE PER WEEK. ANY DEFICIENCIES SHALL BE NOTED IN A WEEKLY REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE REPORT. CONTRACTORS ARE REQUIRED TO SUBMIT TO CITY INSPECTION STAFF COPIES OF THEIR INSPECTION REPORTS REQUIRED BY THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON A MONTHLY BASIS.

NO OIL AND GAS WELLS EXIST ON THIS TRACT ACCORDING TO THE MISSOURI DEPARTMENT OF NATURAL RESOURCES OIL AND GAS PERMIT DATABASE. ALSO, NO PHYSICAL EVIDENCE EXIST THAT AN OIL AND/OR GAS WELL IS PRESENT ON THIS TRACT.

TOTAL DISTURBED AREA ON SITE = 1.80 AC.

MISSOURI DNR LAND DISTURBANCE PERMIT NUMBER TBD.

REVISION KEY			COVER	CE1	CE2	CE3	CE4	CE5	CE6	CE7	CE8	CE9	CE10	CE11
REV #	DATE	COMMENTS												
...	08/08/2019	ORIGINAL SUBMITTAL	X	X	X	X	X	X	X	X	X	X	X	X

SHEET INDEX:

CE 1 - GRADING PLAN

CE 2 - EROSION CONTROL PLAN

CE 3 - UTILITY PLAN

CE 4 - WATER LINE A & STORM SEWER PROFILE - LINE 1

CE 5 - SITE PLAN

CE 6 - SITE CONSTRUCTION DETAILS

CE 7 - STORM SEWER DETAILS

CE 8 - WATER LINE DETAILS

CE 9 - ACCESSIBLE PARKING, ADA RAMP, WATER LINE & SANITARY

SEWER DETAILS

CE 10 - EROSION CONTROL DETAILS

CE 11 - LANDSCAPING PLAN

LEGEND OF SYMBOLS:

----	EXISTING CURB	FF-XXXX	MINIMUM FINISH FLOOR OF STRUCTURE
=====	PROPOSED CURB	XXXX.XX TD	PROPOSED TOP OF CURB ELEVATION
	RIP RAP	XXXX.XX TP	PROPOSED TOP OF PAVEMENT ELEVATION
	EXISTING STRUCTURE	XXXX.XX FG	PROPOSED FINISH GRADE ELEVATION
	EXISTING TREELINE	XXXX.XX TW	PROPOSED TOP OF WALL
	PROPOSED TREELINE	XX	LOT NUMBER
	EDGE OF WATERWAY	X	STORM SEWER STRUCTURE LABEL
--- W ---	EXISTING WATERLINE	X	SANITARY SEWER STRUCTURE LABEL
--- W ---	PROPOSED WATERLINE	HP.	HIGH POINT
--- G ---	EXISTING GAS LINE	LP.	LOW POINT
--- G ---	PROPOSED GAS LINE		EXISTING SIGNS
--- UT ---	EXISTING UNDERGROUND TELEPHONE		EXISTING POWER POLE
--- UTV ---	EXISTING UNDERGROUND CABLE TELEVISION		EXISTING GAS VALVE
--- HVE ---	EXISTING HIGH VOLTAGE ELECTRIC		EXISTING WATER VALVE
--- OE ---	EXISTING OVERHEAD ELECTRIC		EXISTING GAS METER
--- UE ---	EXISTING UNDERGROUND ELECTRIC		EXISTING WATER METER
--- OETV ---	EXISTING OVERHEAD ELEC. & TV		EXISTING FIRE HYDRANT
--- OETV ---	EXISTING OVERHEAD ELEC., TV & TELE.		MANHOLE
--- S ---	EXISTING SANITARY SEWER		EXISTING SANITARY SEWER LATERAL
--- S ---	PROPOSED SANITARY SEWER		PROPOSED SANITARY SEWER LATERAL
.....XXX.....	EXISTING MINOR CONTOUR		PROPOSED TRACER WIRE TEST STATION BOX
---XXX---	EXISTING MAJOR CONTOUR		EXISTING AIR CONDITIONER
---XXX---	PROPOSED MINOR CONTOUR		EXISTING TELEPHONE PEDESTAL
---XXX---	PROPOSED MAJOR CONTOUR		EXISTING ELECTRICAL TRANSFORMER
TTTTTT	100 YEAR FLOOD PLAIN		EXISTING ELECTRIC METER
TTTTTTTT	FLOODWAY		EXISTING LIGHT POLE
--- . . . ---	ORDINARY HIGH WATER MARK		EXISTING GUY WIRE
--- . . . ---	STREAM SIDE BUFFER		
=====	OUTER STREAM BUFFER		

OWNER/DEVELOPER:

KANSAS CITY SURGICAL AND DENTAL, LLC
GREGORY LOHR DDS MD
(816) 806-6242

PREPARED BY:

THIS SHEET HAS BEEN SIGNED, SEALED AND
DATED ELECTRONICALLY

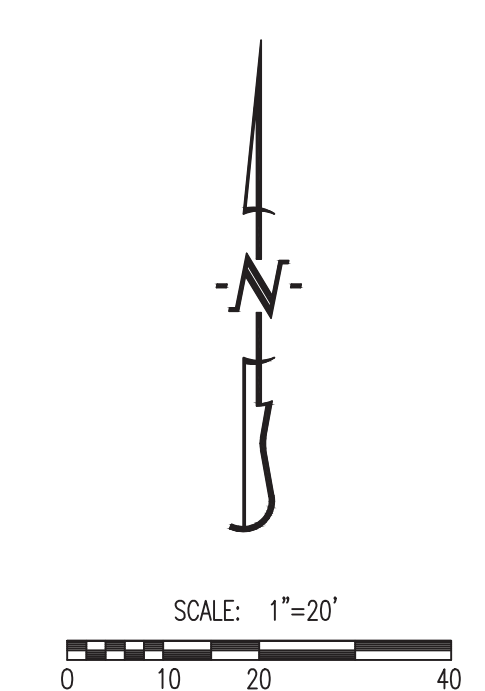


PREPARED BY:

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ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292

www.crockettengineering.com

Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#2000151301




LEGEND OF LABELS	
(A)	FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 4" TOP SOIL. SOD, SEED AND MULCH ALL DISTURBED AREAS.
(B)	GRADE ACCESSIBLE PARKING STALLS AND ROUTES AS SHOWN. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS. ALL ACCESSIBLE ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.

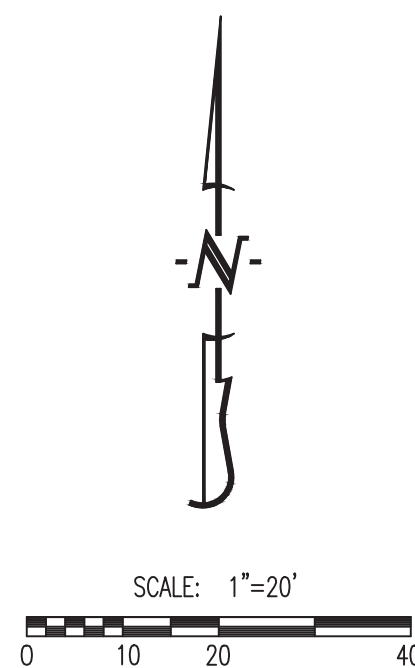
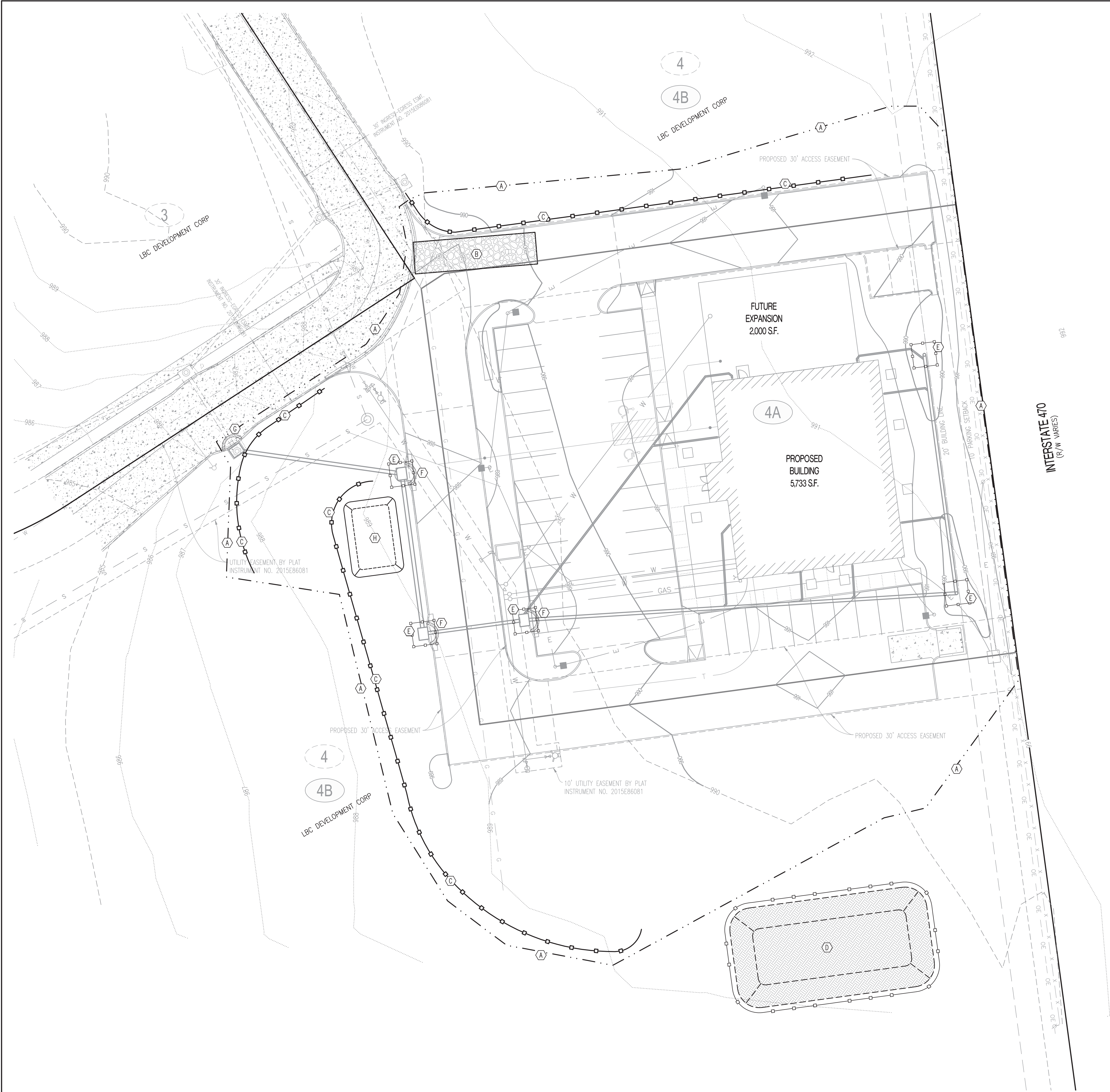
LEGEND OF SYMBOLS:

.....888.....	EXISTING 2 FT CONTOUR
-- --820-- --	EXISTING 10 FT CONTOUR
=====888=====	PROPOSED 2 FT CONTOUR
=====820=====	PROPOSED 10 FT CONTOUR
FF=XXXX	FINISHED FLOOR OF STRUCTURE
(XXXX.XX TC)	PROPOSED TOP OF CURB ELEVATION
(XXX.XX TP)	PROPOSED TOP OF PAVEMENT ELEVATION
(XXX.XX FG)	PROPOSED FINISH GRADE ELEVATION
(XXX.XX TW)	PROPOSED TOP WALL ELEVATION
→	RUNOFF FLOW DIRECTION
HP	HIGH POINT
LP	LOW POINT

NOTES:

THE 100 YEAR STORM OVERFLOW SYSTEM FOR THIS PROJECT WILL BE HANDLED BY OVERLAND FLOW. THESE SYSTEMS ARE SHOWN WITH THE 100 YR.  SYMBOL.

REVISIONS:	
NO.	DATE
ORIGINAL	07/03/2019
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY	
	
TIMOTHY D. CROCKETT MO LICENSE - 2004000775	
<div>PREPARED BY:  Crockett Engineering Consultants, LLC 10000 E. 11th Street, Suite 100 Olathe, Missouri 66061 (316) 447-0292 www.crockettingineering.com Crockett Engineering Consultants, LLC Missouri Certificate of Authority #200033301</div>	
OWNER:	KANSAS CITY SURGICAL AND DENTAL, LLC GREGORY LOHR DDS MD (816) 806-6242
<div>KANSAS CITY SURGICAL & DENTAL OFFICE</div> <div>SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST LEE'S SUMMIT, JACKSON COUNTY, MISSOURI</div>	
DRAWING INCLUDES:	
GRADING PLAN	
DESIGNED:	TDC
DRAWN:	JEE
PROJECT NO.:	190164
SHEET:	CE 1



LEGEND OF LABELS:

- (A) LIMITS OF DISTURBANCE.
- (B) INSTALL 3" CRUSHED STONE FOR CONSTRUCTION EXIT (6" THICK x 12'W x 50'L). ALL CONSTRUCTION TRAFFIC SHALL LEAVE THE SITE VIA THIS EXIT.
- (C) INSTALL SILT FENCE AS SHOWN. PORTIONS OF SILT FENCE WILL BE INSTALLED PER INITIAL EROSION CONTROL PLAN.
- (D) TOP SOIL STORAGE.
- (E) INLET PROTECTION. SILT FENCE WRAPPED AROUND THROAT OF INLET
- (F) REPLACE SILT FENCE WITH GUTTERBUDDY ® (OR APPROVED EQUAL) AT THROAT OF INLET AFTER STREETS ARE PAVED.
- (G) INSTALL GUTTERBUDDY ® (OR APPROVED EQUAL) AT THROAT OF INLET.
- (H) 20' X 30' X 3' MIN CONCRETE WASHOUT FACILITY. THE WASHOUT FACILITY IS TO BE LINED WITH A PLASTIC LINING MATERIAL (10 MIL POLYETHYLENE SHEETING MIN.) FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COULD COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL. A SIGN SHALL BE INSTALLED ADJACENT TO FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.

REVISIONS:

NO.	DATE
ORIGINAL	07/03/2019

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

TIMOTHY D. CROCKETT
NO LICENSE - 200400075

PREPARED BY:

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ENGINEERING CONSULTANTS
1000 W. Ming Blvd. Ste. 1
Columbia, MO 65203
(314) 447-0292
www.crockettengineering.com
Crockett Engineering Consultants, LLC
Missouri #200400075

OWNER:

KANSAS CITY SURGICAL AND DENTAL LLC
GREGORY LOAR DDS MD
(816) 886-8242

KANSAS CITY SURGICAL & DENTAL OFFICE

SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

EROSION
CONTROL PLAN

DESIGNED:

TDC

DRAWN:

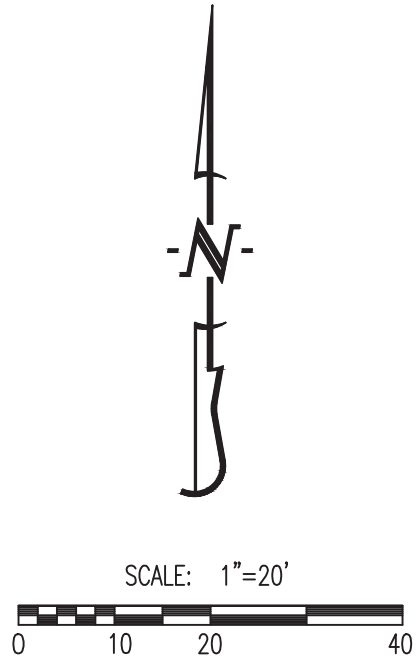
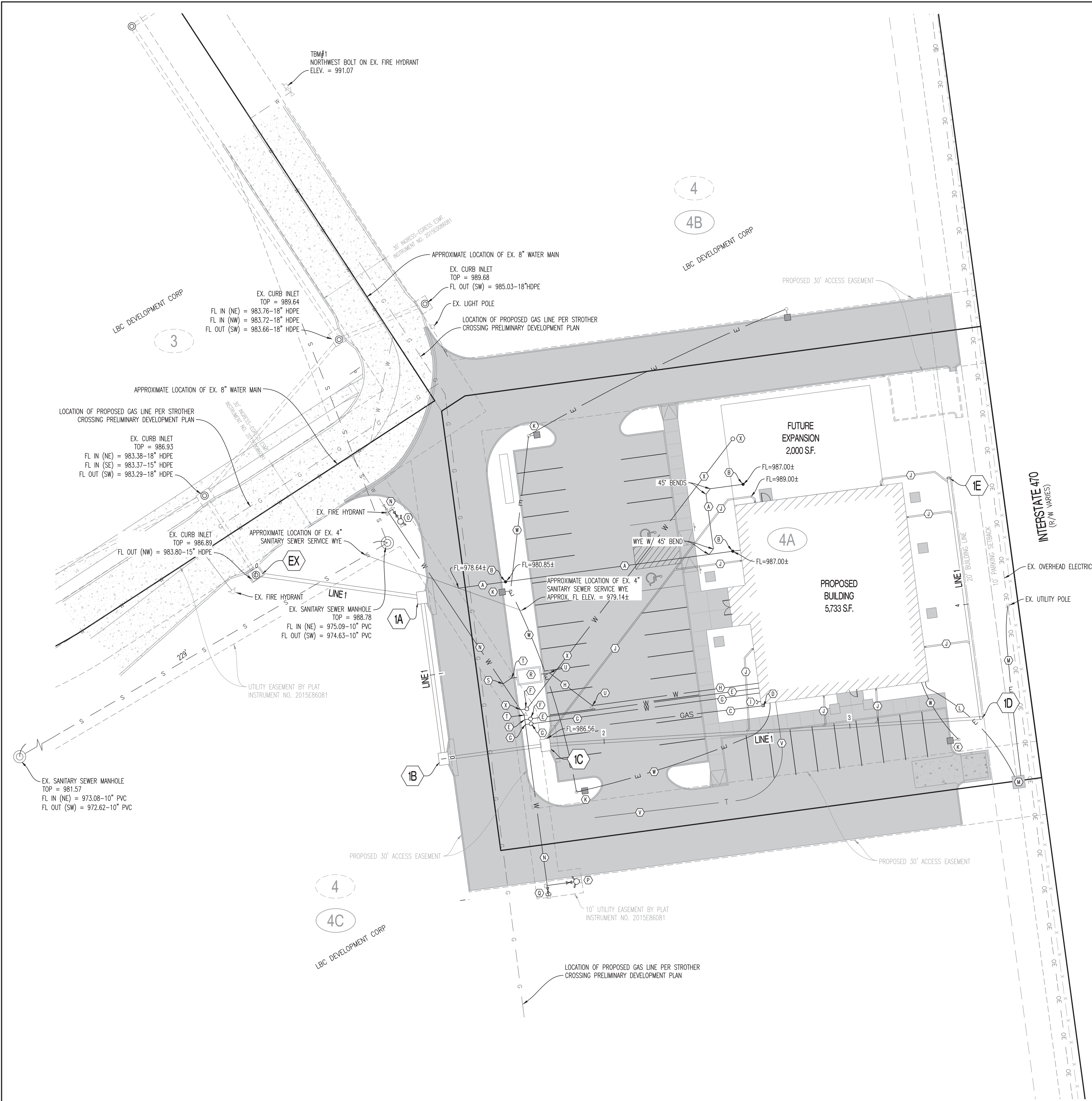
JEE

PROJECT NO:

190164

SHEET:

CE 2



LEGEND OF LABELS	
(A)	PROPOSED 4" SDR 26 SANITARY SEWER LATERAL AT MIN. 2% GRADE. REFER TO DETAIL CE 9. REFER TO M.E.P. PLANS.
(B)	PROPOSED 4" SANITARY SEWER CLEANOUT.
(C)	PROPOSED GAS SERVICE LINE. REFER TO M.E.P. PLANS. CONTRACTOR TO COORDINATE WITH SPIRE.
(D)	PROPOSED GAS METER. REFER TO M.E.P. PLANS. CONTRACTOR TO COORDINATE WITH SPIRE.
(E)	PROPOSED 1 1/2" DOMESTIC WATERLINE. REFER TO M.E.P. PLANS FOR SIZE. CONTRACTOR TO COORDINATE TAP WITH CITY OF LEE'S SUMMIT WATER UTILITIES DEPARTMENT.
(F)	PROPOSED WATER METER PER CITY OF LEE'S SUMMIT SPECIFICATIONS. REFER TO M.E.P. PLANS.
(G)	PROPOSED IRRIGATION LINE WITH METER. REFER TO M.E.P. PLANS. CONTRACTOR TO COORDINATE CONNECTION WITH CITY OF LEE'S SUMMIT WATER UTILITIES DEPARTMENT.
(H)	PROPOSED 6" FIRE LINE. REFER TO M.E.P. PLANS FOR SIZE.
(I)	PROPOSED FIRE DEPARTMENT CONNECTION.
(J)	PROPOSED 6" DOWNSPOUT LEADER.
(K)	PROPOSED LIGHT POLE. REFER TO M.E.P. PLANS.
(L)	PROPOSED ELECTRIC SERVICE TO BUILDING. CONTRACTOR TO COORDINATE WITH KCPL. REFER TO MEP PLANS FOR EXACT BUILDING ENTRY AND METER LOCATION.
(M)	PROPOSED TRANSFORMER PAD MEETING KCP&L SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH KCP&L FOR LOCATION AND SERVICE TO TRANSFORMER. REFER TO M.E.P. PLANS.
(N)	REMOVE EXISTING FIRE HYDRANT AND EXTEND 6" SDR35 WATER MAIN 173 L.F. PER CITY OF LEE'S SUMMIT WATER DEPARTMENT SPECIFICATIONS. REFER TO PROFILE SHEET CE7 AND DETAILS SHEET CE8 & CE9. CONTRACTOR TO COORDINATE WITH CITY OF LEE'S SUMMIT WATER UTILITIES DEPARTMENT.
(O)	RELOCATED 6" FIRE HYDRANT ASSEMBLY (INCLUDES THRUST BLOCKING, HYDRANT, VALVE WITH VALVE BOX TO SURFACE AND M.J. JOINTS). INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL SHEET CE8.
(P)	INSTALL 6" FIRE HYDRANT ASSEMBLY (INCLUDES FIRE HYDRANT, 6" GATE VALVE WITH VALVE BOX TO SURFACE AND THRUST BLOCKING). REFER TO DETAIL SHEET CE8.
(Q)	INSTALL 6" VALVE WITH VALVE BOX TO SURFACE. PROVIDE 6" PLUG AFTER VALVE AND CONCRETE THRUST BLOCK.
(R)	INSTALL DOUBLE CHECK DETECTOR CHECK VAULT. REFER TO DETAIL SHEET CE9.
(S)	INSTALL 6"x6"x6" TEE WITH THRUST BLOCKING.
(T)	INSTALL 22.5' HORIZONTAL BEND WITH THRUST BLOCKING.
(U)	INSTALL 45' HORIZONTAL BEND WITH THRUST BLOCKING.
(V)	PROPOSED TELEPHONE/CABLE SERVICE LINE. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER.
(W)	PROPOSED 1" CONDUIT FOR ELECTRIC SERVICE TO LIGHT POLES. REFER TO M.E.P. PLANS.
(X)	PROPOSED 1" DOMESTIC WATERLINE TO BE EXTENDED FOR FUTURE EXPANSION. WATER LINE TO TERMINATED WITH METER BOX. REFER TO M.E.P. PLANS. CONTRACTOR TO COORDINATE TAP WITH CITY OF LEE'S SUMMIT WATER UTILITIES DEPARTMENT.

- GENERAL NOTES:**
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACQUIRE EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE ANY DAMAGED OR BROKEN UTILITY TO ORIGINAL OR BETTER CONDITION. ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON UTILITY LOCATES PROVIDED. CONTRACTOR TO BE AWARE THAT EXISTING UTILITIES NOT SHOWN ON THESE PLANS MAY EXIST. CONTRACTOR TO CONTACT ENGINEER IF ANY CONFLICT WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION.
 - ALL WATERLINE CONSTRUCTION (TAPPING SLEEVE, VALVES, JOINTS, BENDS, THRUST BLOCKING, PIPE BEDDING, & FIRE HYDRANTS) SHALL CONFORM TO THE CITY OF LEE'S SUMMIT SPECIFICATIONS. CONTRACTOR TO REFER TO SECTION 3900 - WATER MAINS, CITY OF LEE'S SUMMIT WATER MAIN SPECIFICATIONS.
 - EXACT DEPTH OF EXISTING WATER MAIN IS UNKNOWN. ADDITIONAL VERTICAL BENDS MAY BE REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES AND SHALL BE MADE AT 45° ANGLES.
 - ALL PROPOSED FIRE HYDRANTS SHALL HAVE SHUT OFF VALVE.
 - A LIGHTING PLAN IS REQUIRED & SHALL CONFORM TO CITY OF LEE'S SUMMIT REGULATIONS. REFER TO M.E.P. PLANS.
 - REFER TO M.E.P. PLANS FOR PROPOSED ELECTRIC SERVICE AND METER LOCATION.
 - WHERE REQUIRED BY THE FIRE CODE OFFICIAL, APPROVED SIGNS OR OTHER APPROVED NOTICES OR MARKINGS THAT INCLUDE THE WORDS "NO PARKING - FIRE LANE" SHALL BE PROVIDED FOR FIRE APPARATUS ACCESS ROADS TO IDENTIFY SUCH ROADS OR PROHIBIT THE OBSTRUCTION THEREOF. THE MEANS BY WHICH FIRE LANES ARE DESIGNATED SHALL BE MAINTAINED IN A CLEAN AND LEGIBLE CONDITION AT ALL TIMES AND SHALL BE REPLACES OR REPAIRED WHEN NECESSARY TO PROVIDE ADEQUATE VISIBILITY.
- STORMWATER NOTE:**
- DETENTION AND WATER QUALITY FOR THIS DEVELOPMENT IS BEING ADDRESSED WITH A DOWNSTREAM REGIONAL DETENTION FACILITY.

REVISIONS:

NO.	DATE
ORIGINAL	08/08/2019

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI

TIMOTHY D. CROCKETT

PROFESSIONAL ENGINEER

NUMBER 25-0004000775

TIMOTHY D. CROCKETT

MO LICENSE - 2004000775

PREPARED BY:

CROCKETT

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Missouri #200081301

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GREGORY LOHMEYER MD

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KANSAS CITY SURGICAL & DENTAL OFFICE

SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

UTILITY PLAN

DESIGNED: TDC

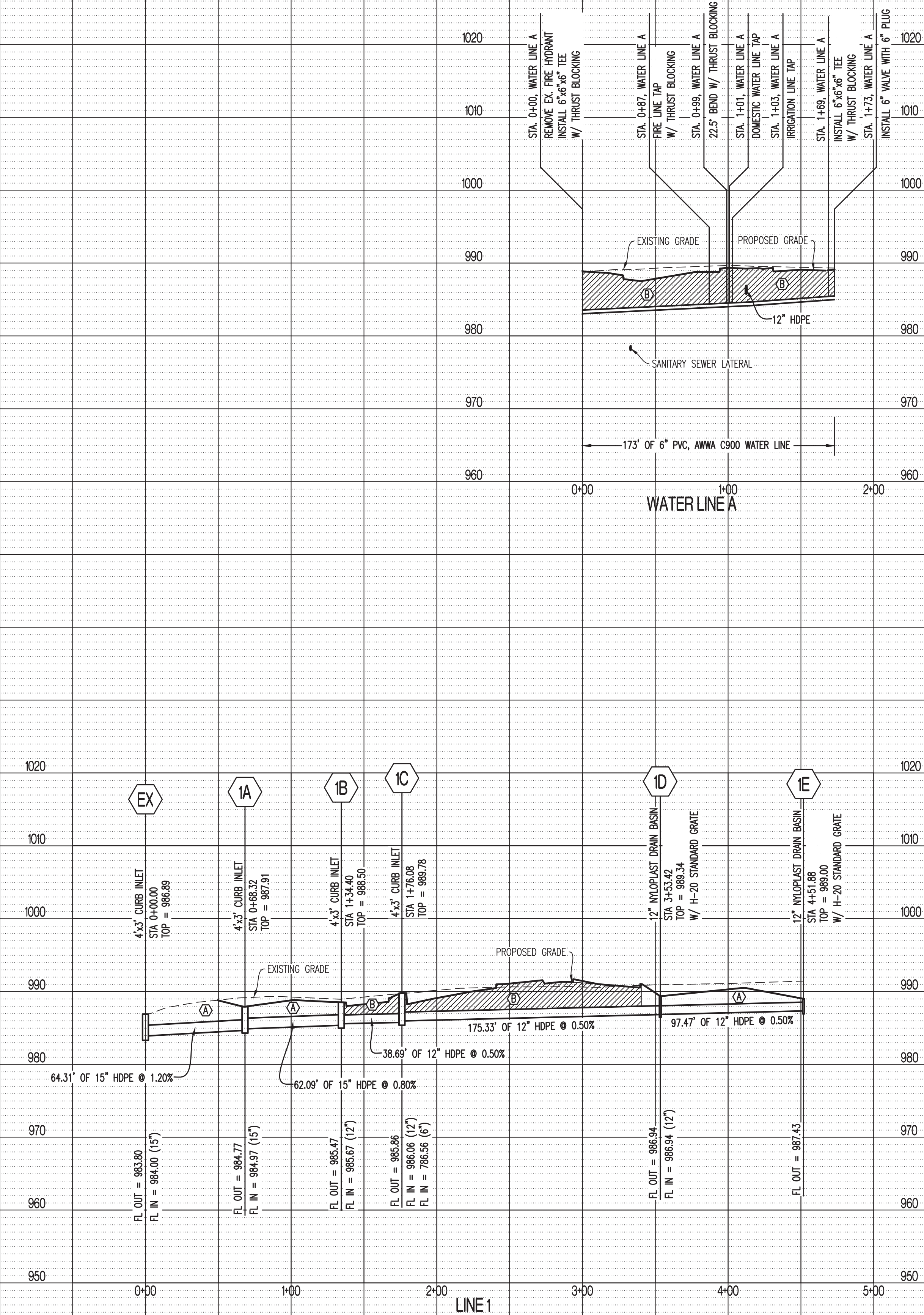
DRAWN: JEE

PROJECT NO: 190164

SHEET: CE 3

FLEXIBLE PIPE

PIPE EMBEDMENT (Out of the Right of Way) (540.02)



ALL STORM SEWER SHOWN ON THESE PLANS IS
CONSIDERED PRIVATE AND SHALL BE MAINTAINED BY OWNER

SCALE:
HORIZ 1" = 50'
VERT 1" = 10'

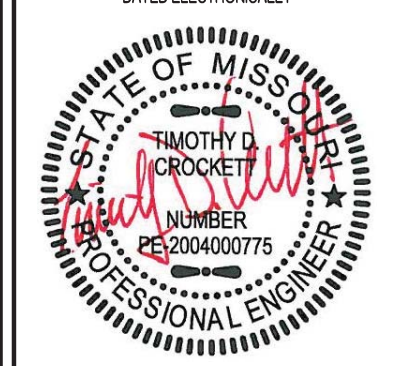
LEGEND OF LABELS:

(A) REFER TO PIPE EMBEDMENT DETAIL THIS SHEET.
(B) GRANULAR COMPACTED BACK FILL.

REVISIONS:

NO.	DATE
ORIGINAL	07/03/2019

THIS SHEET HAS BEEN SIGNED, SEALED AND
DATED ELECTRONICALLY



TIMOTHY D. CROCKETT
MO LICENSE - 2004000775

PREPARED BY:

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#20000131001

OWNER:

OWNER:
KANSAS CITY SURGICAL AND DENTAL, LLC
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KANSAS CITY SURGICAL & DENTAL OFFICE

SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

WATER LINE A &
STORM SEWER PROFILE
LINES 1

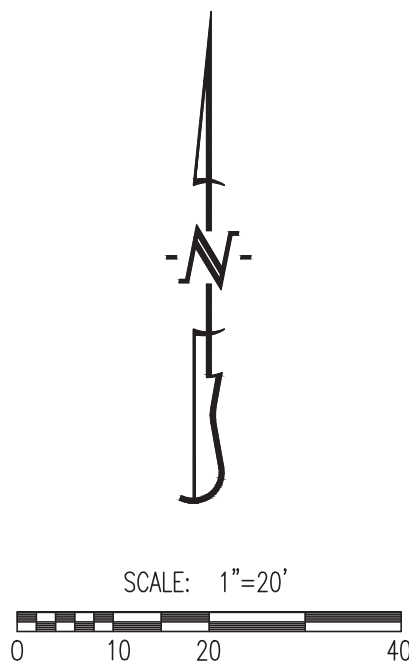
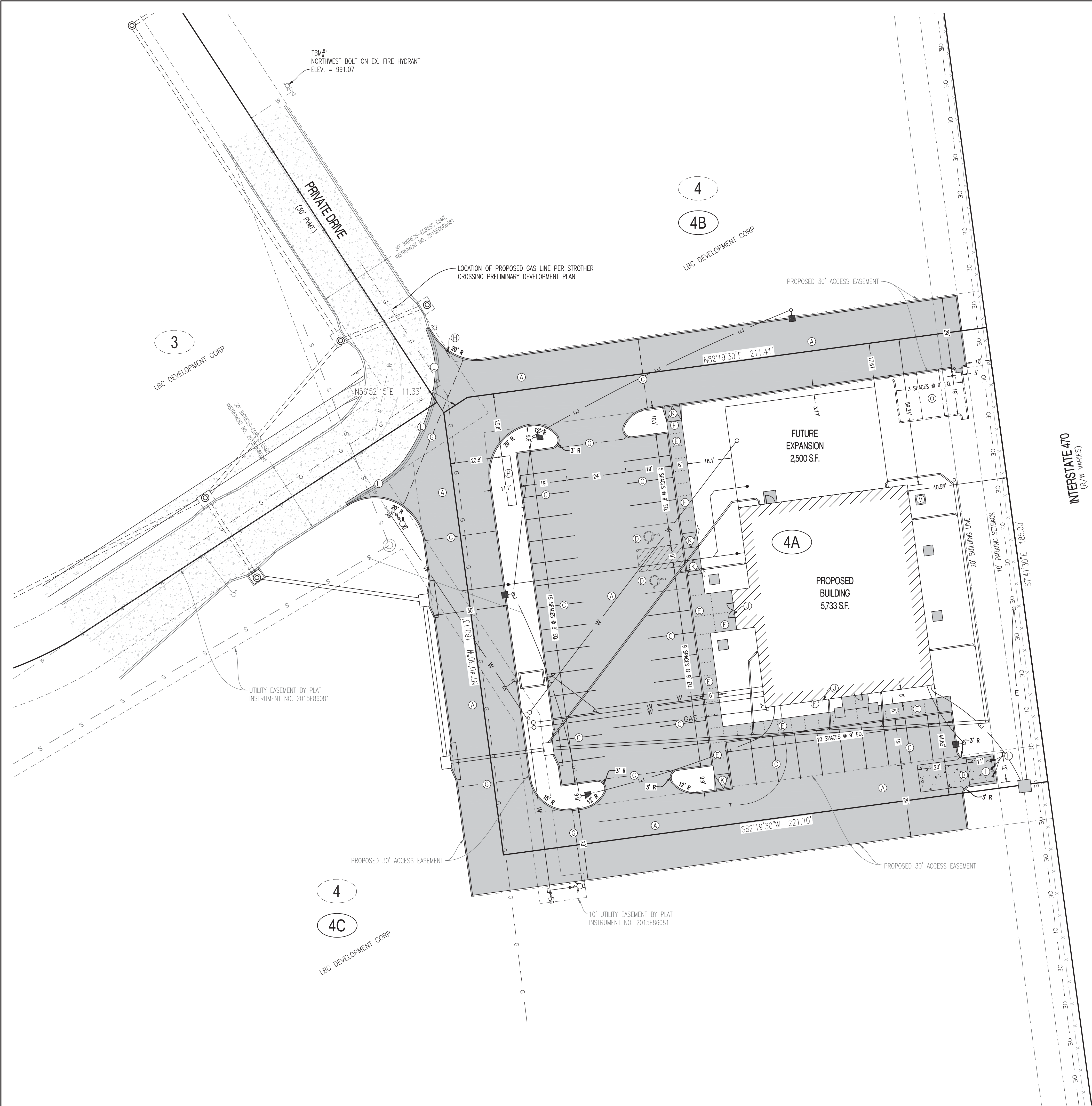
DESIGNED: TDC

DRAWN: JEE

PROJECT NO.: 190164

SHEET:

CE 4



LEGEND OF LABELS

- (A) CONSTRUCT CONCRETE PAVEMENT W/ INTEGRAL CURB. REFER TO DETAILS ON CE 6.
- (B) CONSTRUCT CONCRETE PAVEMENT FOR DUMPSTER PAD AND APPROACH. REFER TO DETAIL ON CE 6.
- (C) PAINT 4" PARKING STALL STRIPES AS SHOWN, COLOR WHITE. TYPICAL ALL STALLS EXCEPT HANDICAP STALLS. REFER TO PLAN FOR WIDTH AND DEPTH OF STALLS.
- (D) PAINT 4" STRIPE AND HANDICAP SYMBOL, COLOR BLUE. PAINT HATCH AREA AS SHOWN, COLOR BLUE. SLOPE OF THE PAVEMENT AT ALL HANDICAP STALLS SHALL NOT EXCEED 1:50 IN ANY DIRECTION. INSTALL HANDICAP SIGN AS SHOWN. REFER TO DETAILS ON CE 9.
- (E) CONSTRUCT PCC THICKENED EDGE SIDEWALK AT BACK OF CURB PER PLAN DIMENSIONS. REFER TO THICKENED EDGE SIDEWALK DETAIL ON CE 6.
- (F) CONSTRUCT 4" THICK, 6' WIDE PCC ADA ACCESSIBLE SIDEWALK (TYPICAL). MAXIMUM LONGITUDINAL SLOPE 1:20. MAXIMUM CROSS SLOPE AT 1:50. REFER TO DETAILS ON CE 6.
- (G) INSTALL 1" EXPANSION JOINT OR TYPE A ALTERNATE EXPANSION JOINT IN PAVING. REFER TO DETAIL ON CE 6.
- (H) INSTALL (3) 6" BOLLARDS AT BACK OF DUMPSTER ENCLOSURE. REFER TO DETAIL ON CE 6.
- (I) 6' TALL DUMPSTER ENCLOSURE ON FOUR SIDES. REFER TO ARCHITECTURAL PLANS.
- (J) INSTALL EXPANSION JOINT BETWEEN BUILDING AND SIDEWALK. REFER TO STRUCTURAL PLANS.
- (K) INSTALL SIDEWALK RAMP. REFER TO DETAIL ON CE 9.
- (L) SAWCUT AND REMOVE EXISTING CURB AND PAVEMENT AS REQUIRED FOR NEW APPROACH. PROPOSED JOINT TO BE A TYPE BS. REFER TO DETAILS ON CE 6.
- (M) CONCRETE PAD FOR CONDENSING UNITS. CONTRACTOR TO COORDINATE LOCATION AND SIZE OF PAD WITH MEP PLANS.
- (N) EXISTING SIGN TO BE RELOCATED OUTSIDE OF PAVEMENT SECTION.
- (O) THESE PARKING SPACES ARE TO BE INSTALLED AS PART OF THE FUTURE EXPANSION.
- (P) PROPOSED MONUMENT SIGN. REFER TO ARCHITECTURAL PLANS.

NOTES:

- 1) ALL ACCESSIBLE PARKING SHALL COMPLY WITH THE REQUIREMENTS OF THE FEDERAL AMERICANS WITH DISABILITIES ACT.
- 2) THE PAVEMENT JOINTS SHOWN ARE A GRAPHICAL REPRESENTATION OF A POSSIBLE JOINT. CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH JOINT LAYOUT FOR APPROVAL BY ENGINEER PRIOR TO POURING OF PAVEMENT.

CALCULATIONS:

LAND AREA:	
TOTAL LAND AREA:	0.94 AC (40,985 S.F.)

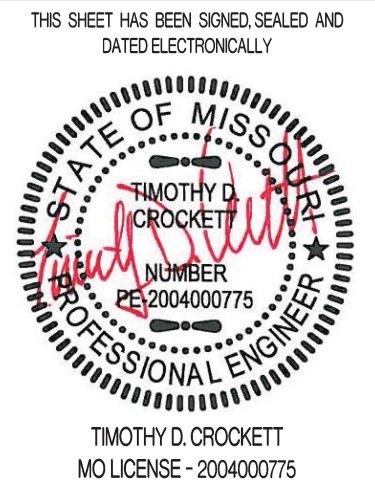
PARKING SUMMARY:

SPACES REQUIRED:		
DENTAL OFFICE - 5,733 SQFT (5 SPACES PER 1,000 GFA):	29 SPACES	
FUTURE - 2,500 SQFT (5 SPACES PER 1,000 GFA):	10 SPACES	
TOTAL SPACES REQUIRED:	41 SPACES	
ACCESSIBLE SPACES REQUIRED:	2 SPACES	
SPACES PROVIDED:		
STANDARD SPACES PROVIDED:	40 SPACES	
ACCESSIBLE SPACES PROVIDED:	2 SPACES	
TOTAL SPACES PROVIDED:	42 SPACES	

LOT COVERAGES:	ACTUAL	
NET LAND AREA:	40,985 SQ.FT.	100%
TOTAL IMPERVIOUS SURFACE AREA:	28,337 SQ.FT.	69%
TOTAL OPEN SPACE:	12,648 SQ.FT.	31%
FAR (0.55):		0.19

REVISIONS:

NO.	DATE
ORIGINAL	08/08/2019



PREPARED BY:
CROCKETT
ENGINEERING CONSULTANTS
1000 W. Main Blvd. Bldg. 6500
Columbia, Missouri 65203
(314) 447-0292
www.crockettingeering.com
Crockett Engineering Consultants, LLC
Missouri License of Authority
000000001

OWNER:
KANSAS CITY SURGICAL AND DENTAL LLC
GREGORY LOHR DDS MD
(816) 866-6242

KANSAS CITY SURGICAL & DENTAL OFFICE
SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

SITE PLAN

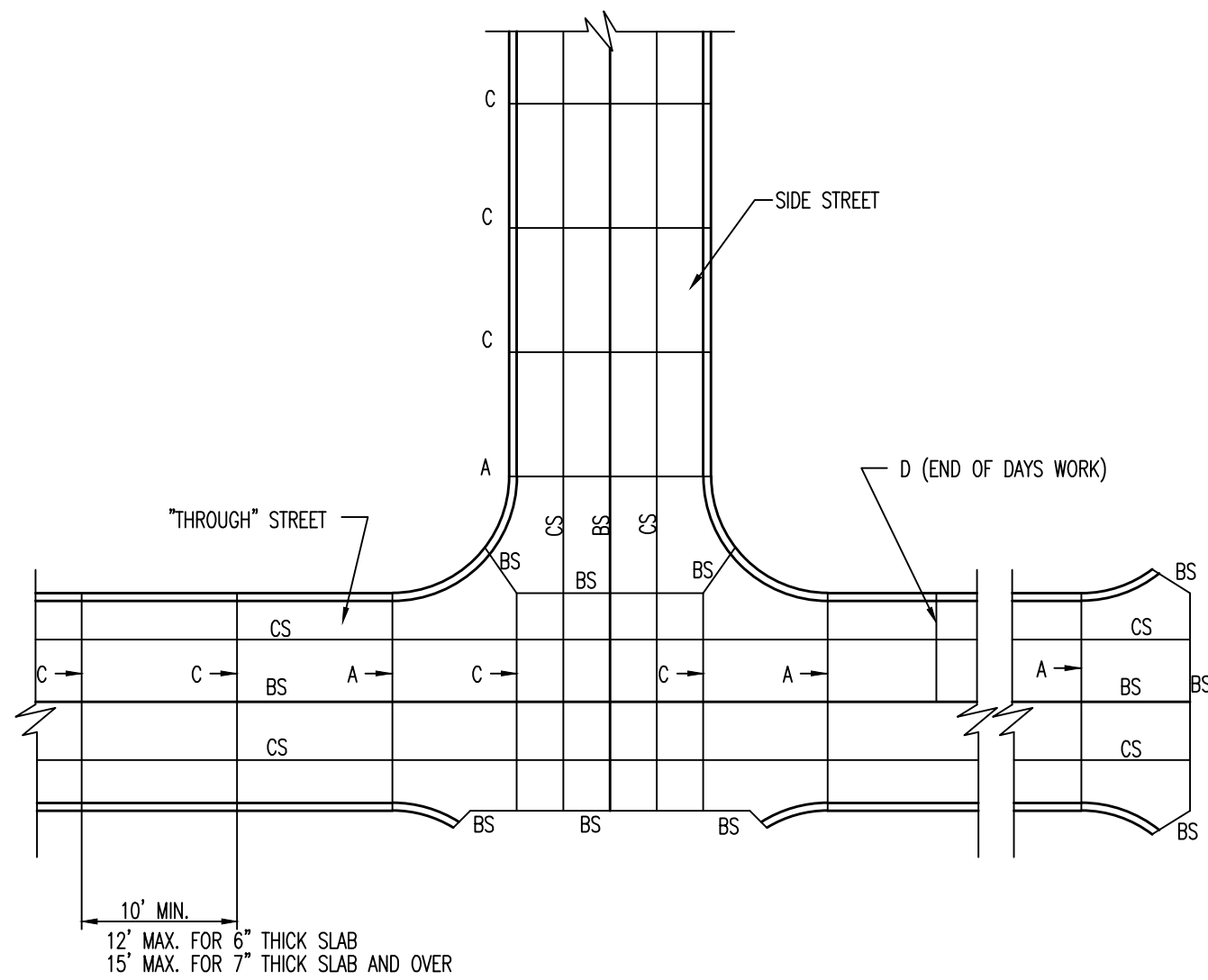
DESIGNED: TDC

DRAWN: JEE

PROJECT NO.: 190164

SHEET:

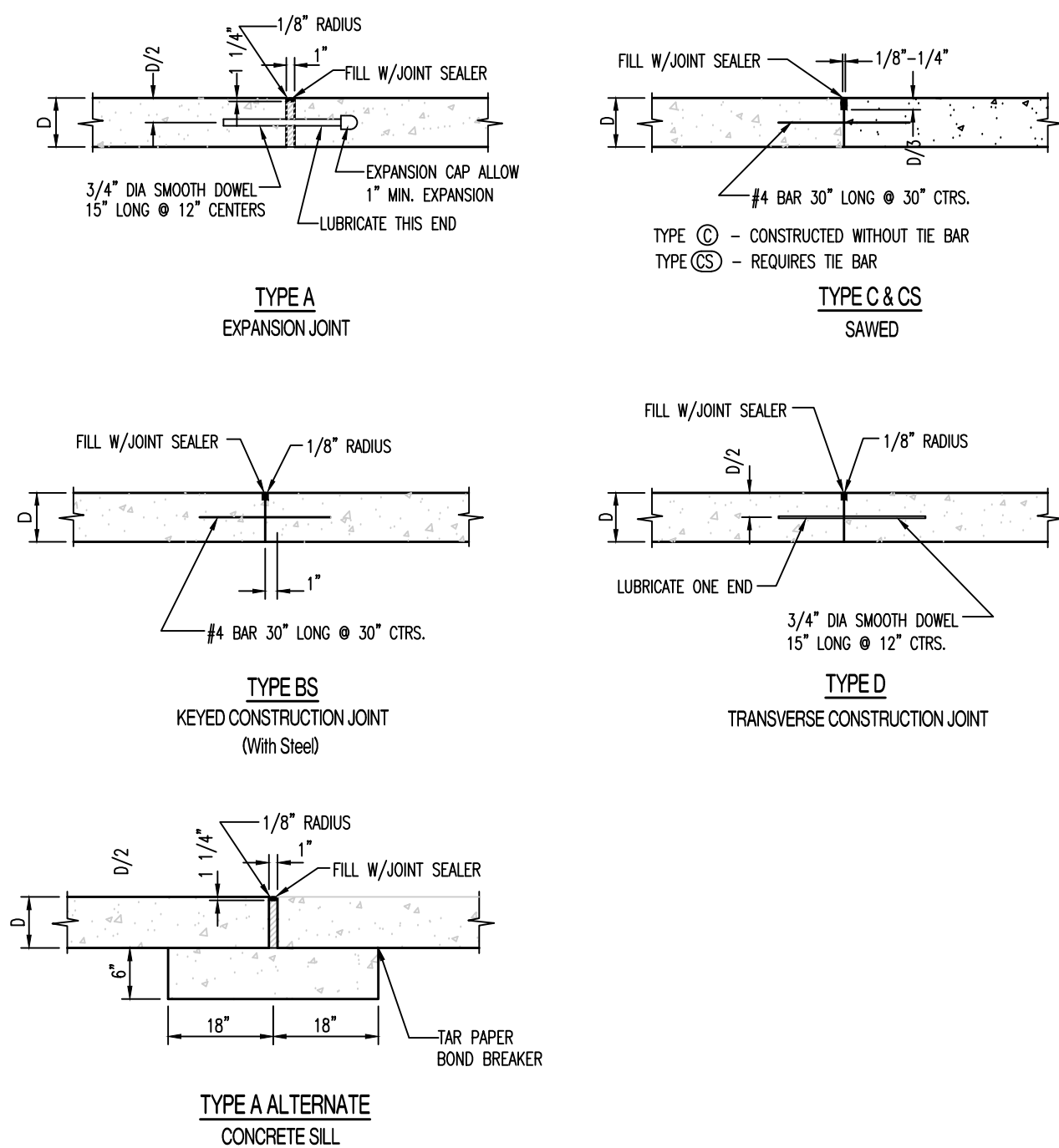
CE 5



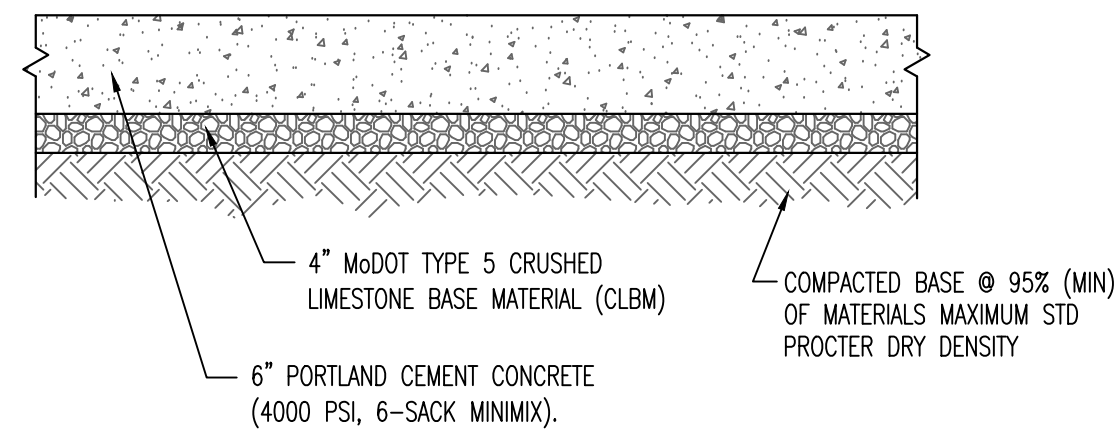
JOINT LOCATION PLAN

- NOTE:
1. TRANSVERSE TYPE C JOINTS SHALL BE SAWS AS SOON AS CONCRETE CAN WITHSTAND RAVELING, JOINTS SHALL BE CLEANED AND FILLED WITH BITUMINOUS COMPOUND IMMEDIATELY FOLLOWING SAWING.
 2. INSTALL TYPE A EXPANSION JOINTS AT INTERSECTIONS, AND AT STRUCTURES.
 3. INSTALL TYPE A EXPANSION JOINTS AT PC & PT OF CURVES. WITH DEFLECTION ANGLE OF GREATER THAN 30°.
 4. INSTALL TYPE A EXPANSION JOINT AT BULB OF CUL-DE-SAC.
 5. INSTALL TYPE A EXPANSION JOINT AT 500' SPACING MAXIMUM.
 6. USE TYPE D JOINT AT END OF DAYS WORK.

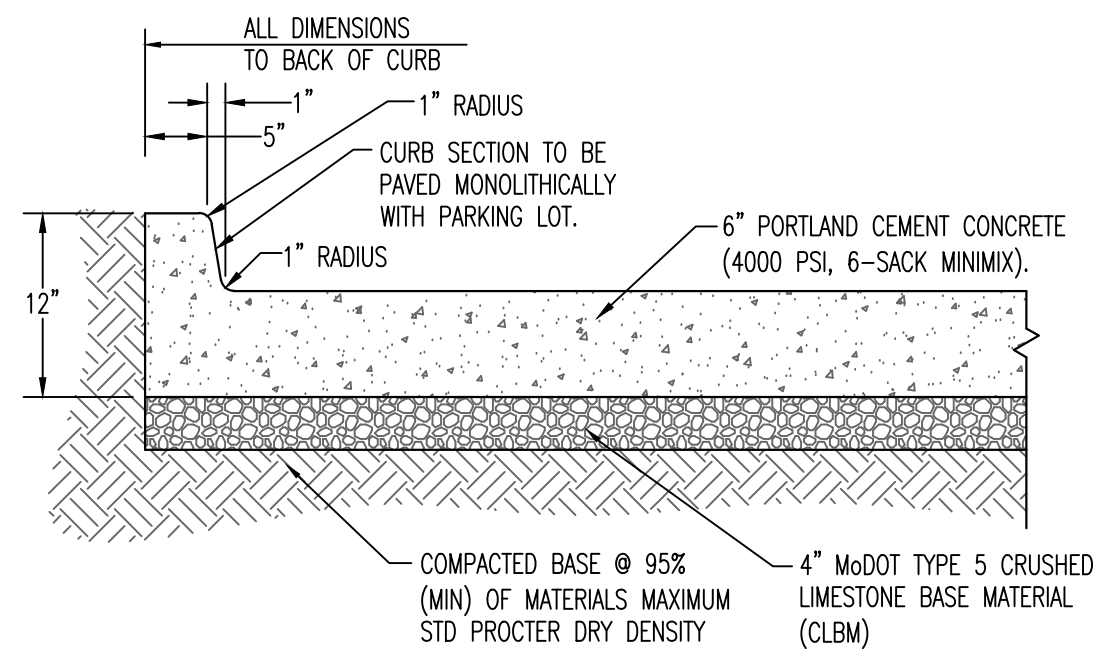
JOINT DETAILS (P.C. Concrete Pavement) (200.01A)



JOINT DETAILS (P.C. Concrete Pavement) (200.01B)

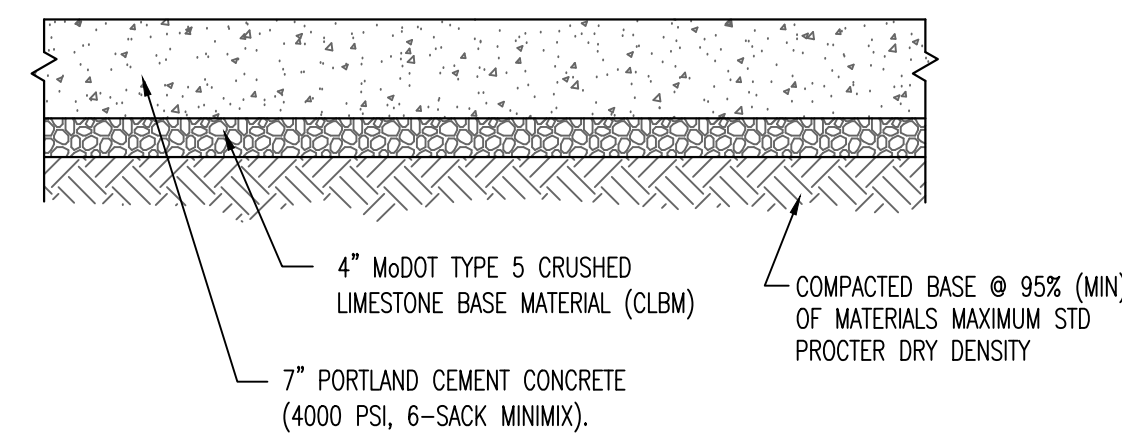


TYPICAL STANDARD DUTY CONCRETE PAVEMENT CROSS SECTION

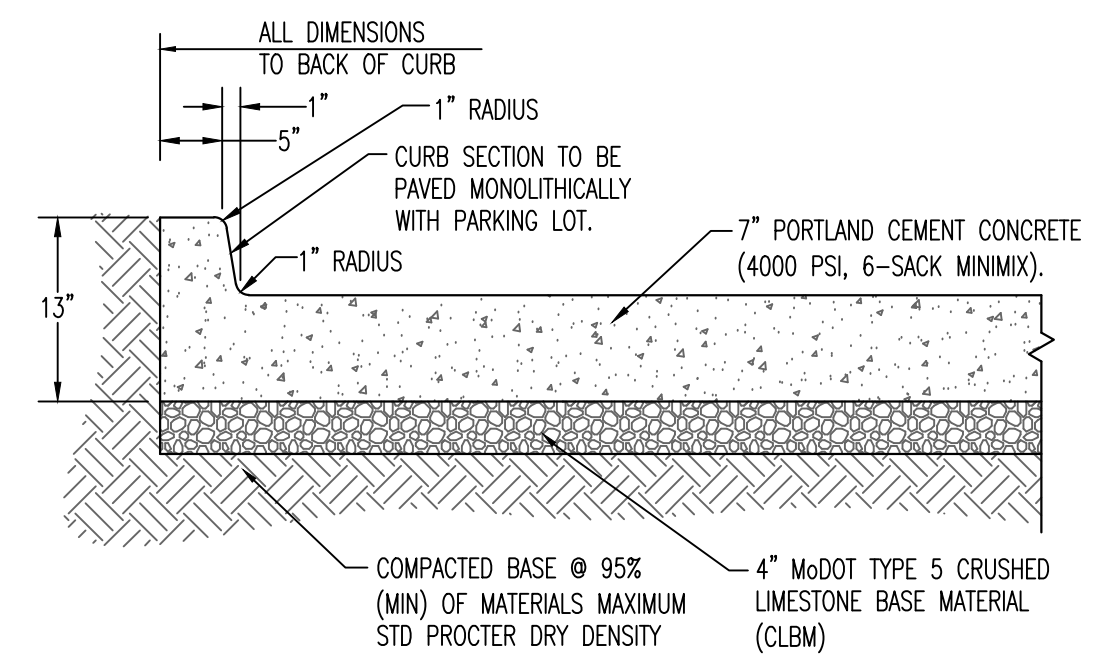


6\"/>

STANDARD DUTY CONCRETE PAVEMENT

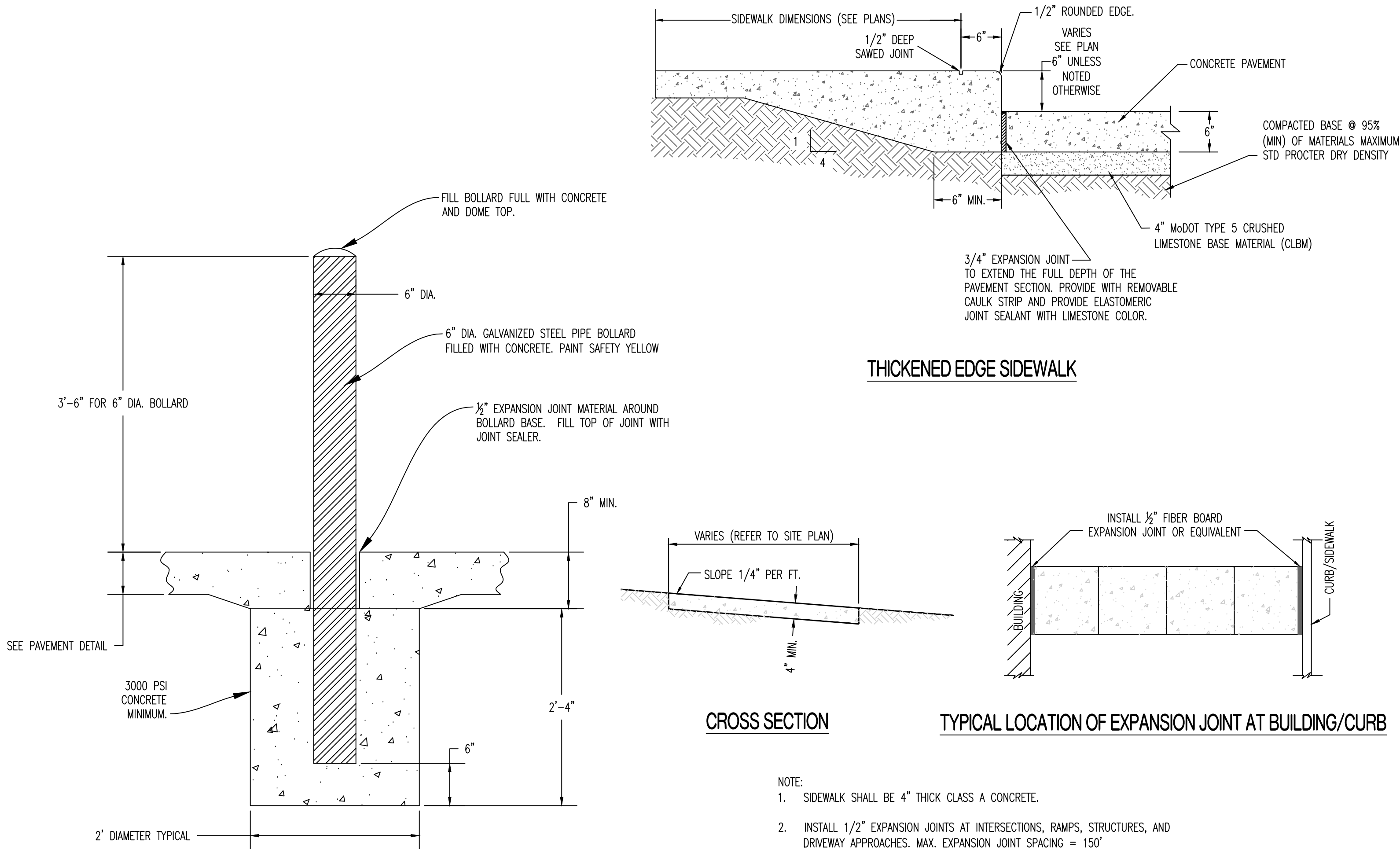


TYPICAL HEAVY DUTY CONCRETE PAVEMENT CROSS SECTION

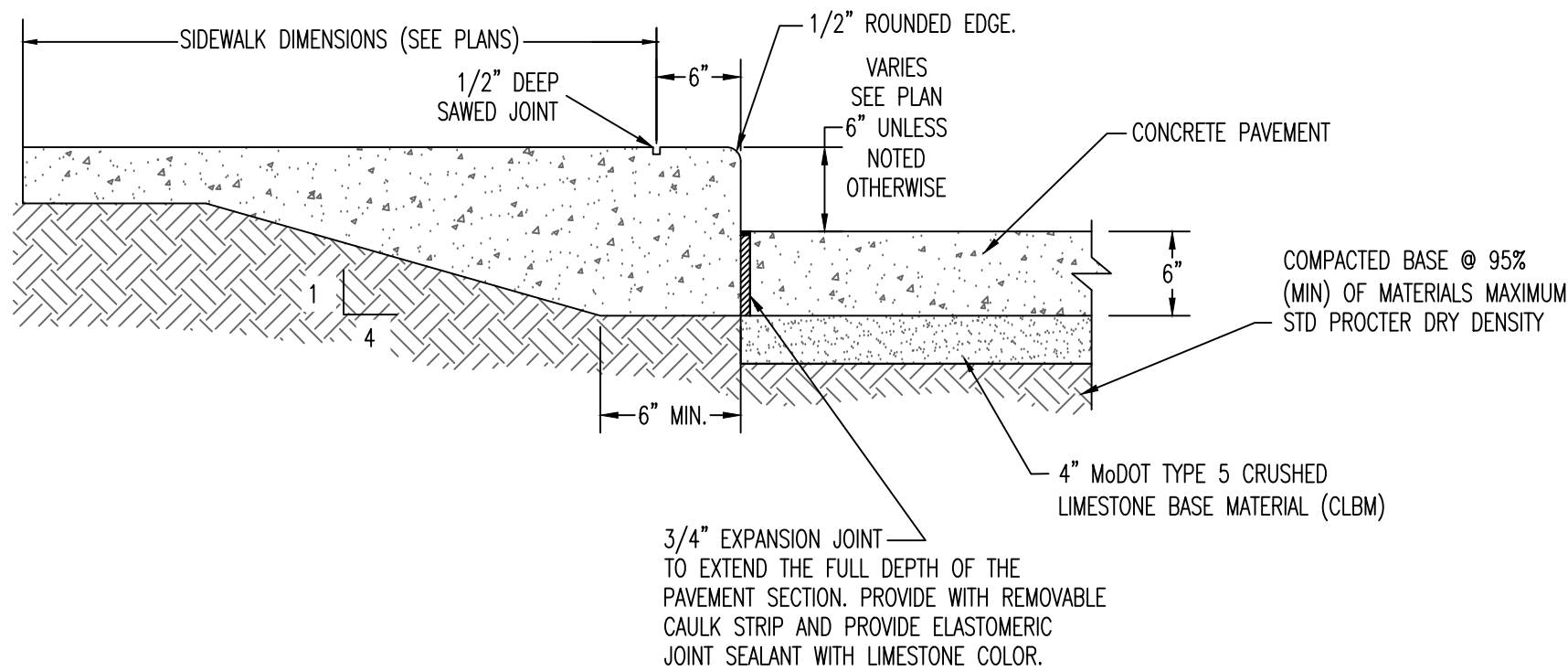


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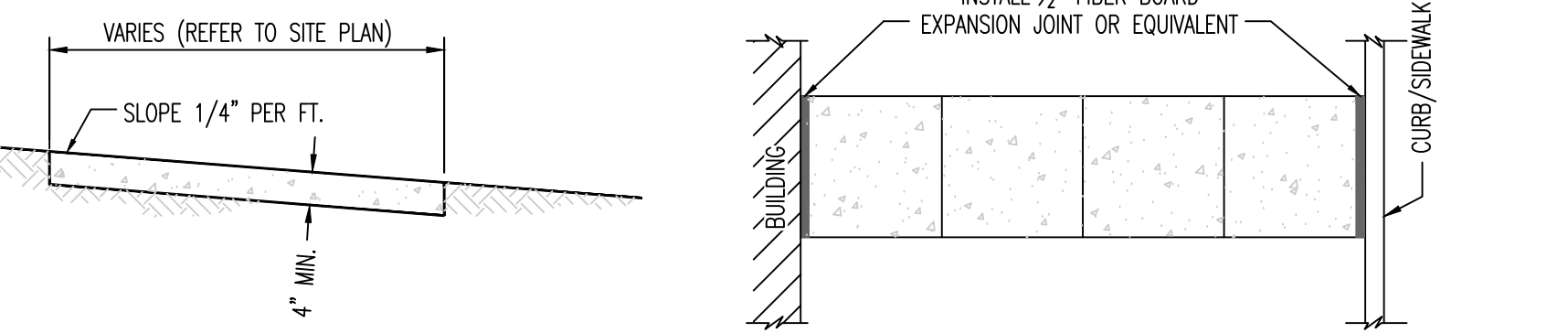
HEAVY DUTY CONCRETE PAVEMENT



BOLLARD INSTALLATION DETAIL



THICKENED EDGE SIDEWALK

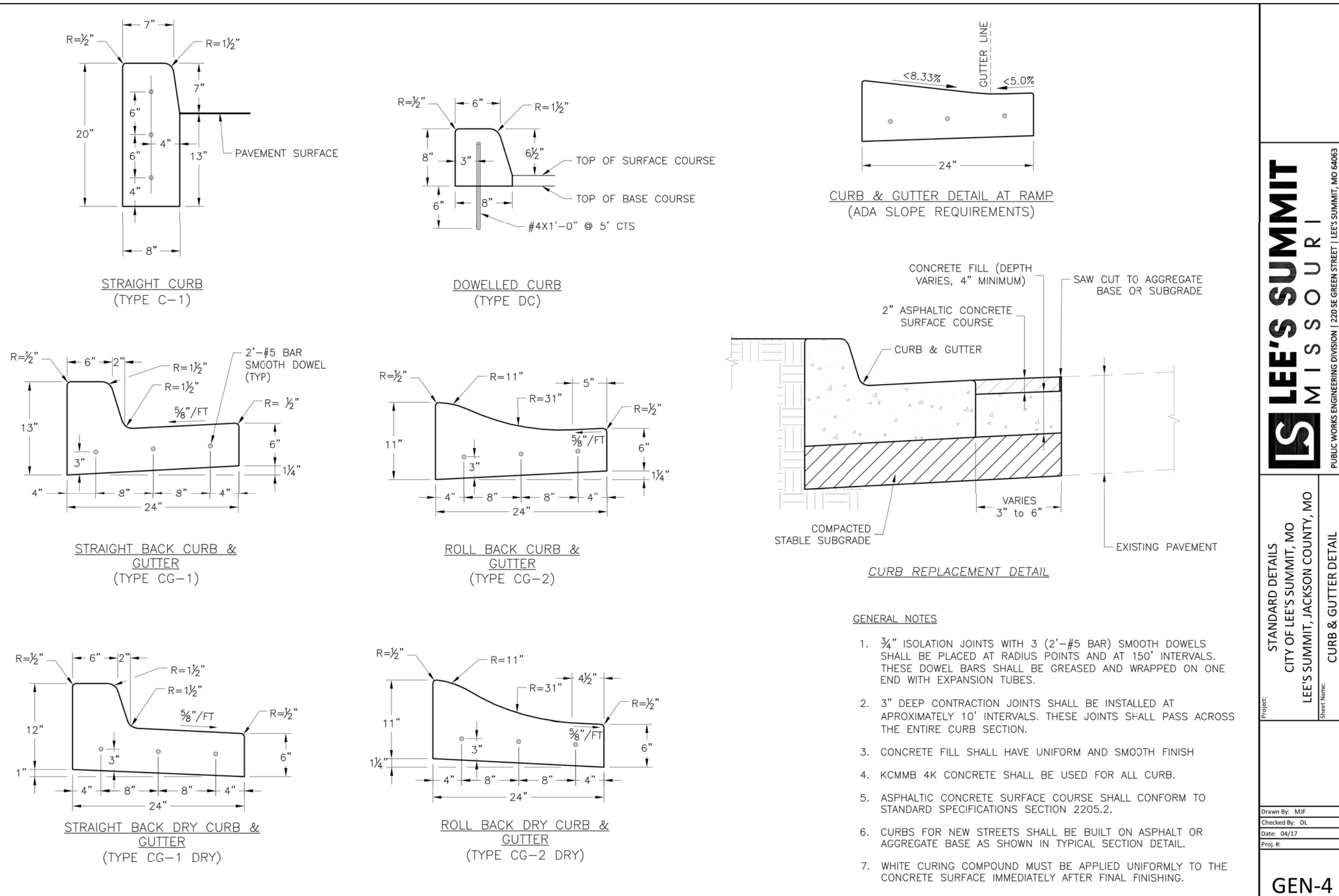


CROSS SECTION

TYPICAL LOCATION OF EXPANSION JOINT AT BUILDING/CURB

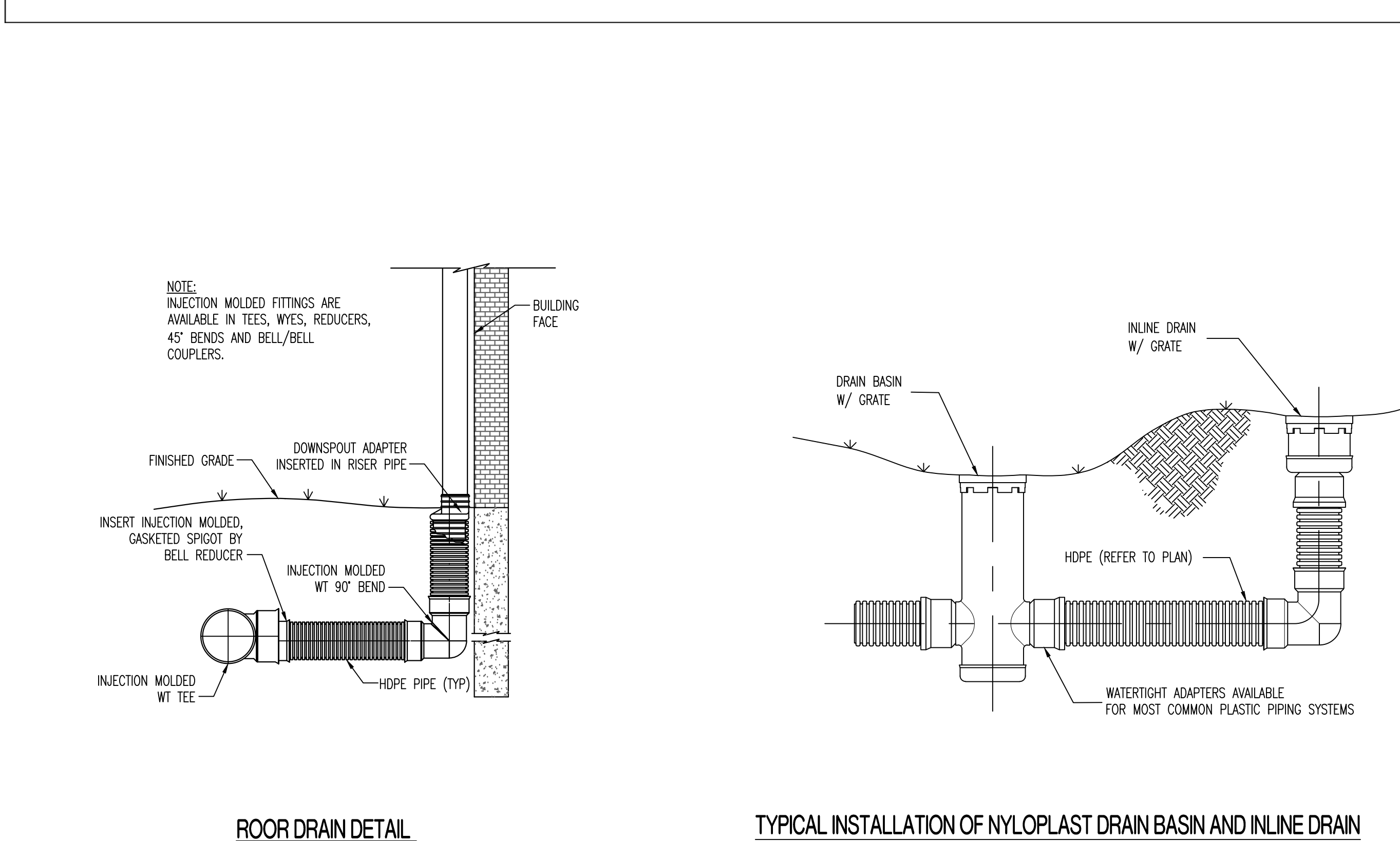
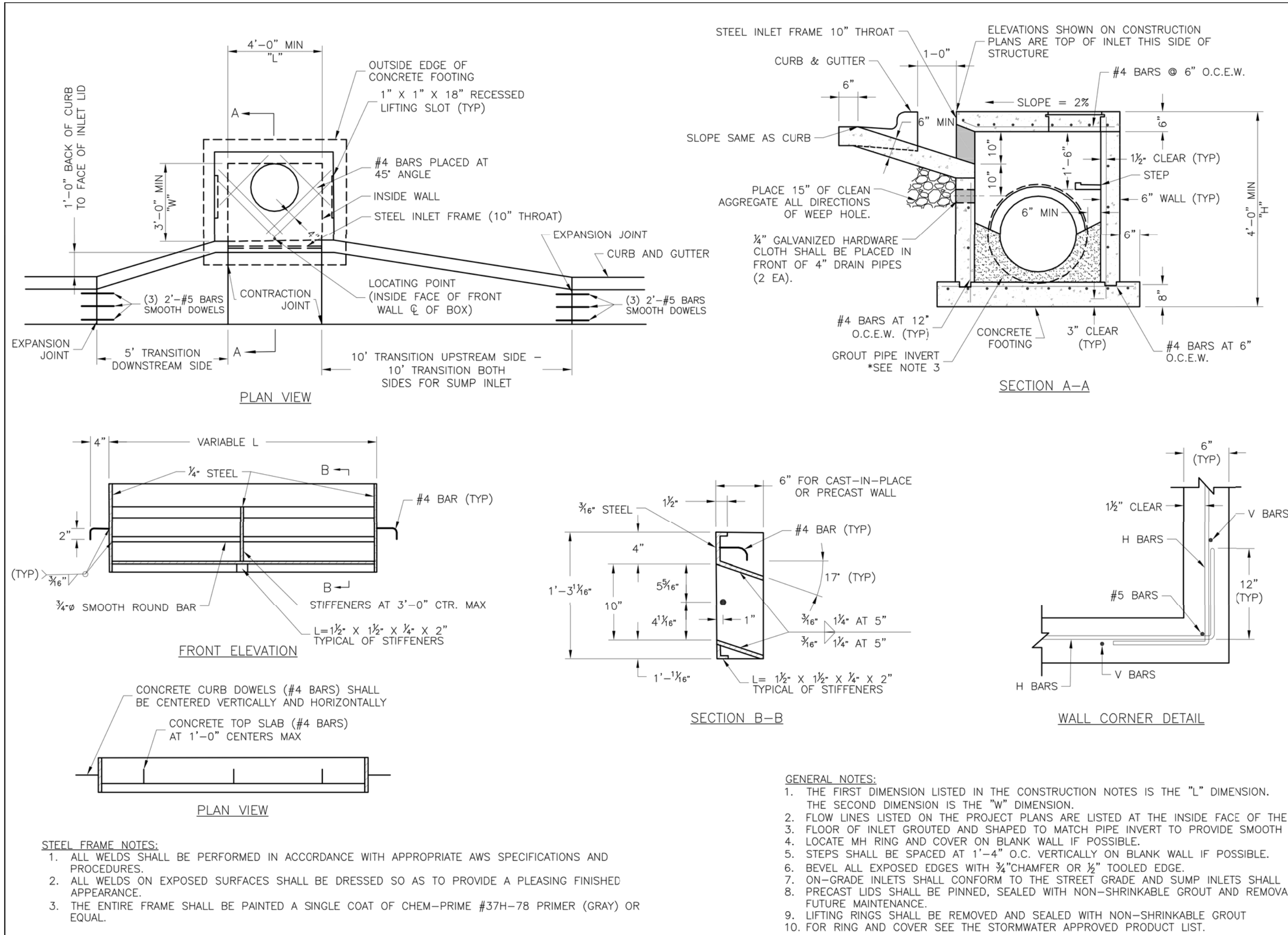
- NOTE:
1. SIDEWALK SHALL BE 4\"/>
 2. INSTALL 1/2\"/>
 3. INSTALL TRANSVERSE SAW JOINTS AT SPACING = SIDEWALK WIDTH.

TYPICAL SIDEWALK



- GENERAL NOTES
1. 3/4\"/>
 2. 3\"/>
 3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
 4. KOMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
 5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
 6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
 7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

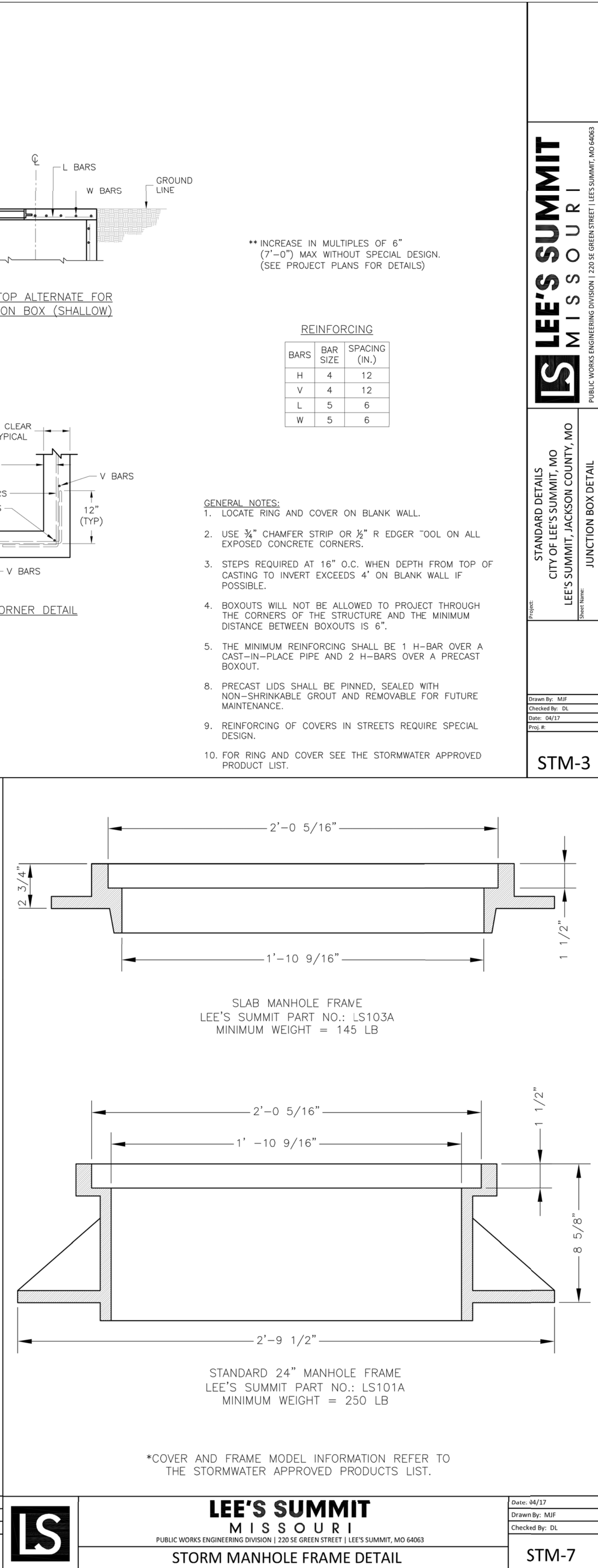
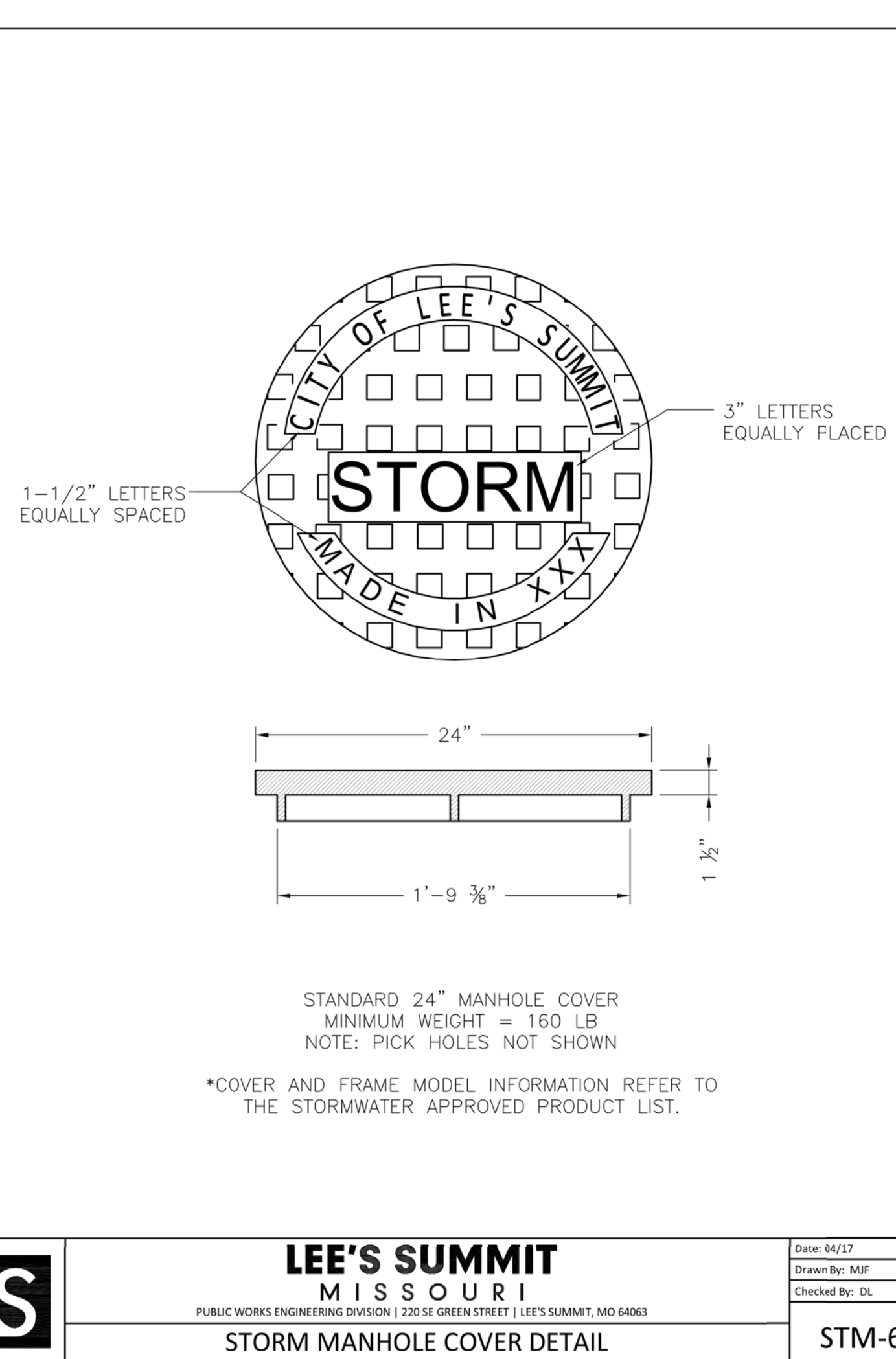
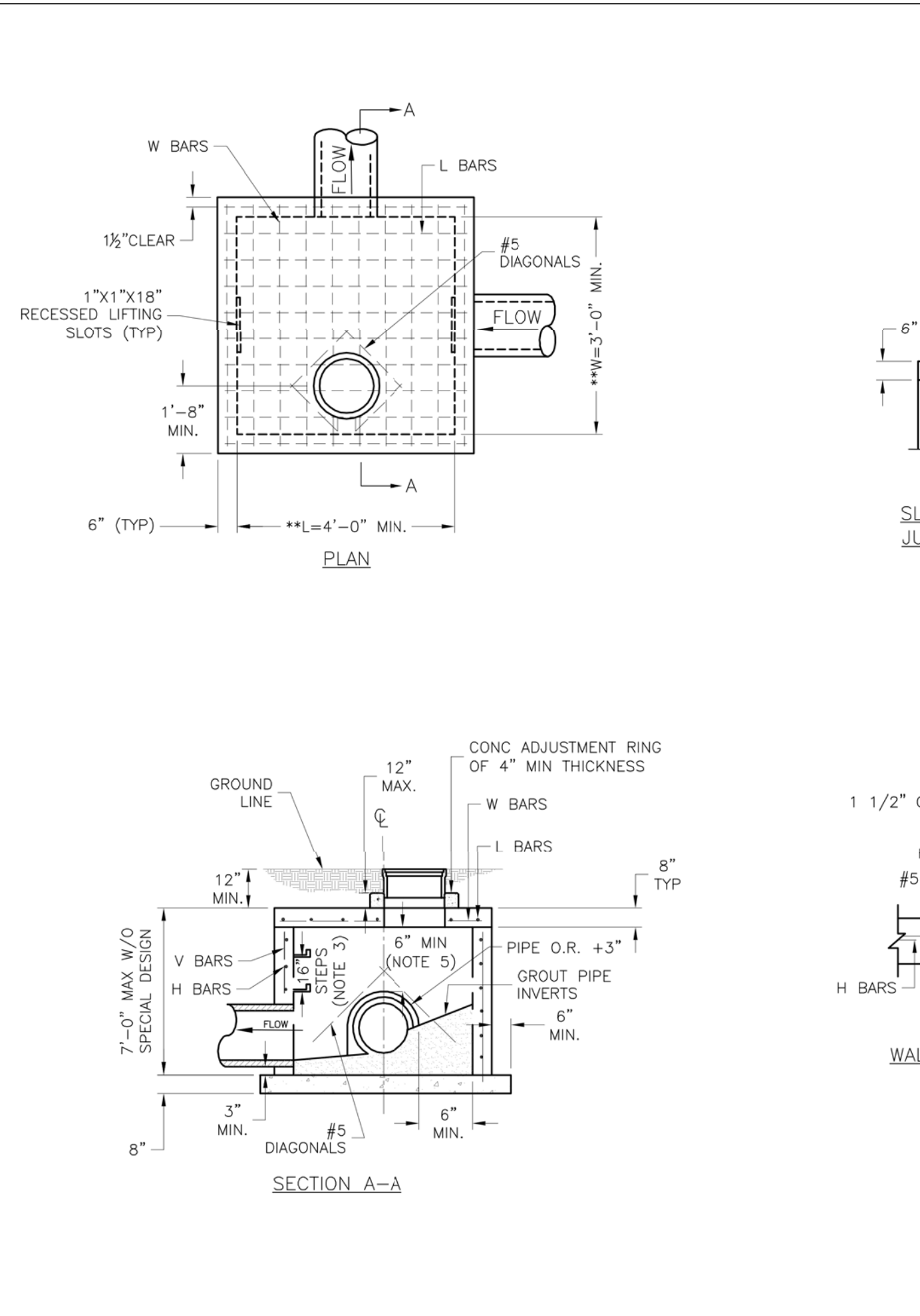
REVISIONS:	
NO.	DATE
ORIGINAL	08/08/2019
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY	
TIMOTHY D. CROCKETT MISSOURI LICENSE - 2004000775	
PREPARED BY:	 CROCKETT ENGINEERING CONSULTANTS 10000 W. 110th St., Suite 100 Overland Park, MO 66203 (816) 440-0992 www.crockettengineering.com Crockett Engineering Consultants, LLC Missouri Certificate of Authority #20003101
OWNER:	KANSAS CITY SURGICAL AND DENTAL LLC GREGORY LOHRD DS MD (816) 806-6242
KANSAS CITY SURGICAL & DENTAL OFFICE SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST LEE'S SUMMIT, JACKSON COUNTY, MISSOURI	
DRAWING INCLUDES: SITE CONSTRUCTION DETAILS	
DESIGNED:	TDC
DRAWN:	JEE
PROJECT NO.:	190164
SHEET:	CE 6



LEE'S SUMMIT MISSOURI

STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO

STM-1



REVISIONS:

NO.	DATE
ORIGINAL	08/08/2019

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY



PREPARED BY:



OWNER:

KANSAS CITY SURGICAL AND DENTAL LLC
GREGORY LOHMEYER, D.D.S.
(816) 806-6242

DESIGNED:

TDC

DRAWN:

JEE

PROJECT NO.:

190164

SHEET:

CE 7

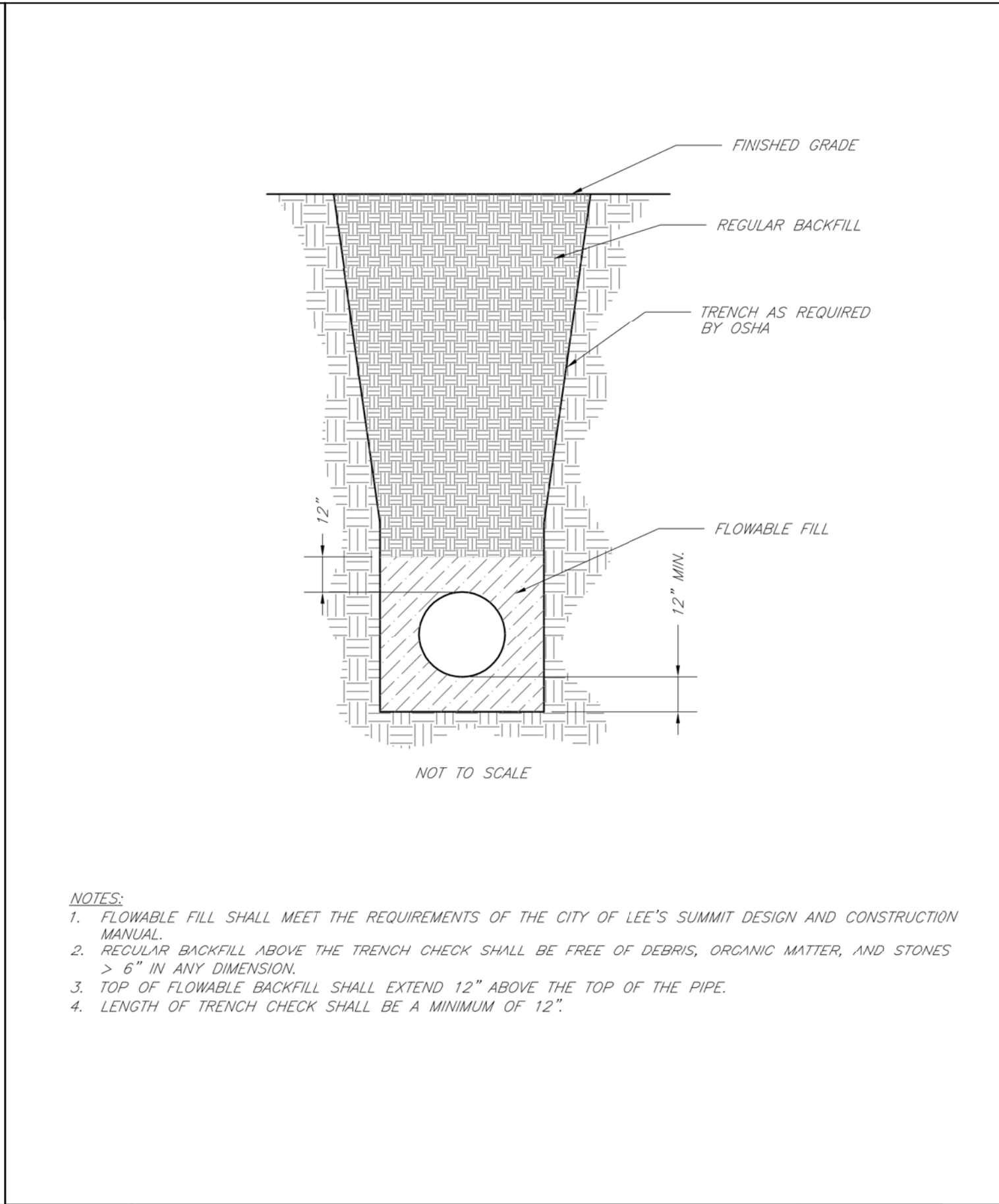
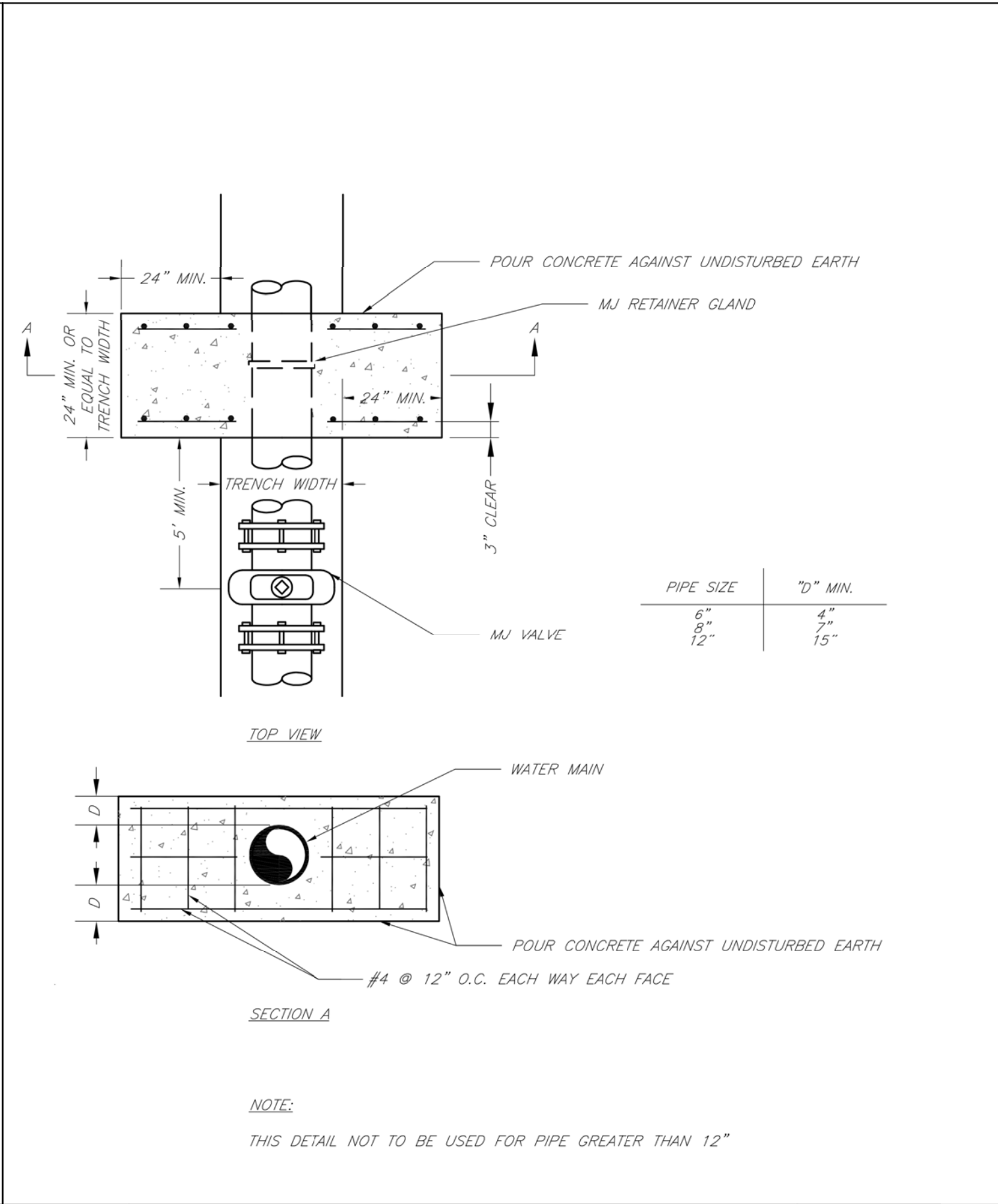
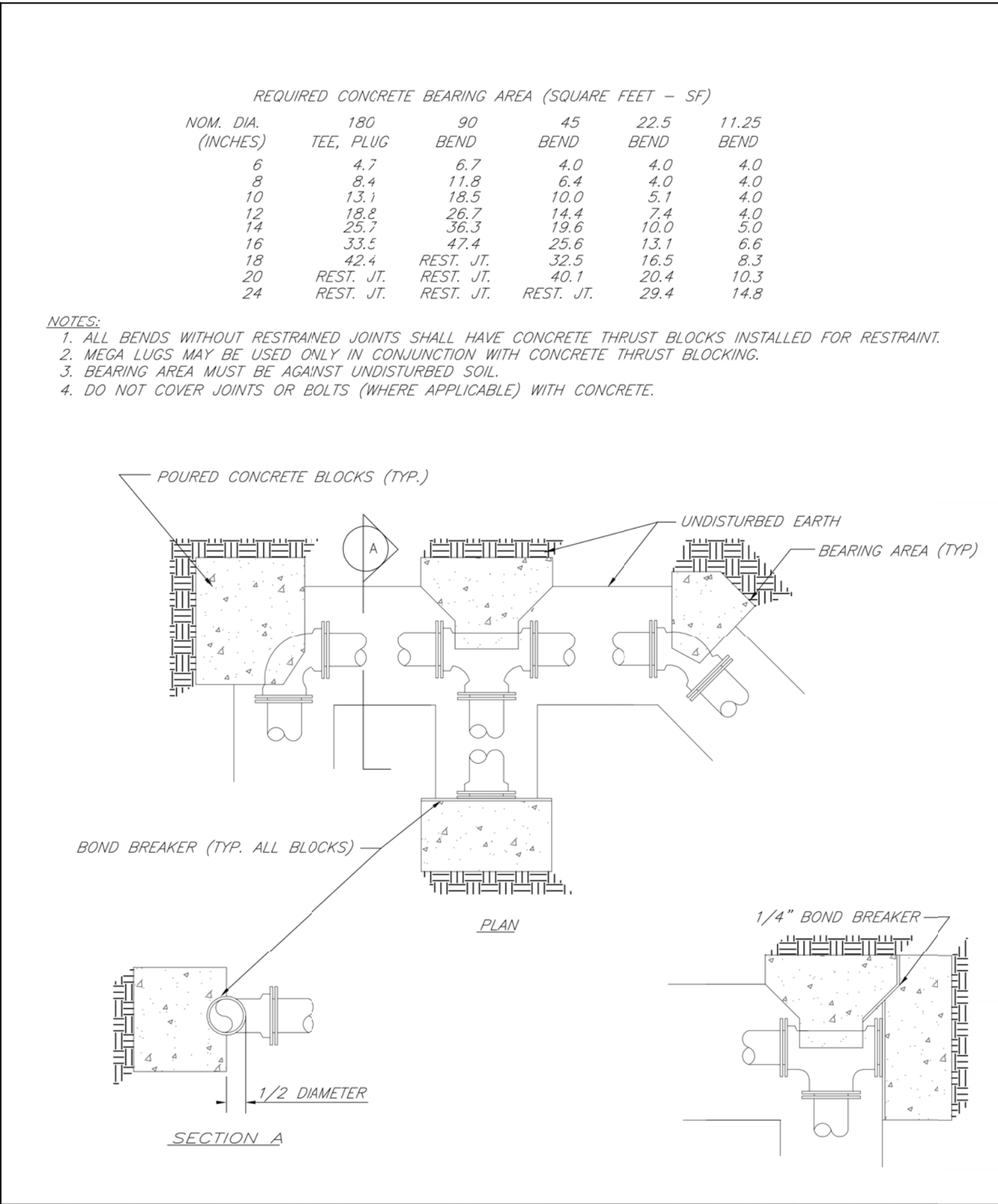
LEE'S SUMMIT MISSOURI

STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO

STM-3

KANSAS CITY SURGICAL & DENTAL OFFICE

SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



LS

LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-1
Rev: 1/14
Rev:

HORIZONTAL THRUST BLOCKS

LS

LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-3
Rev: 1/14
Rev:

STRADDLE BLOCK

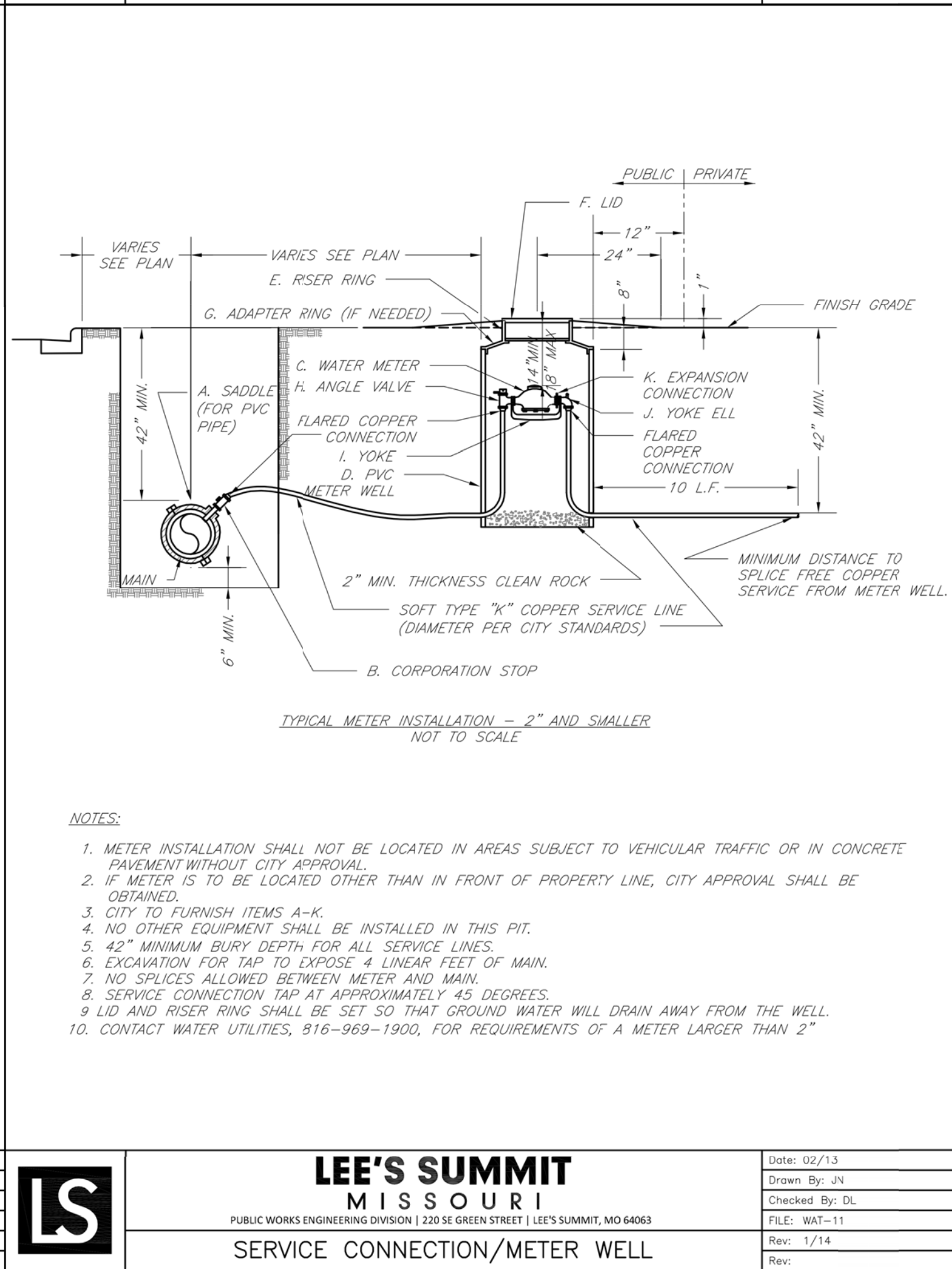
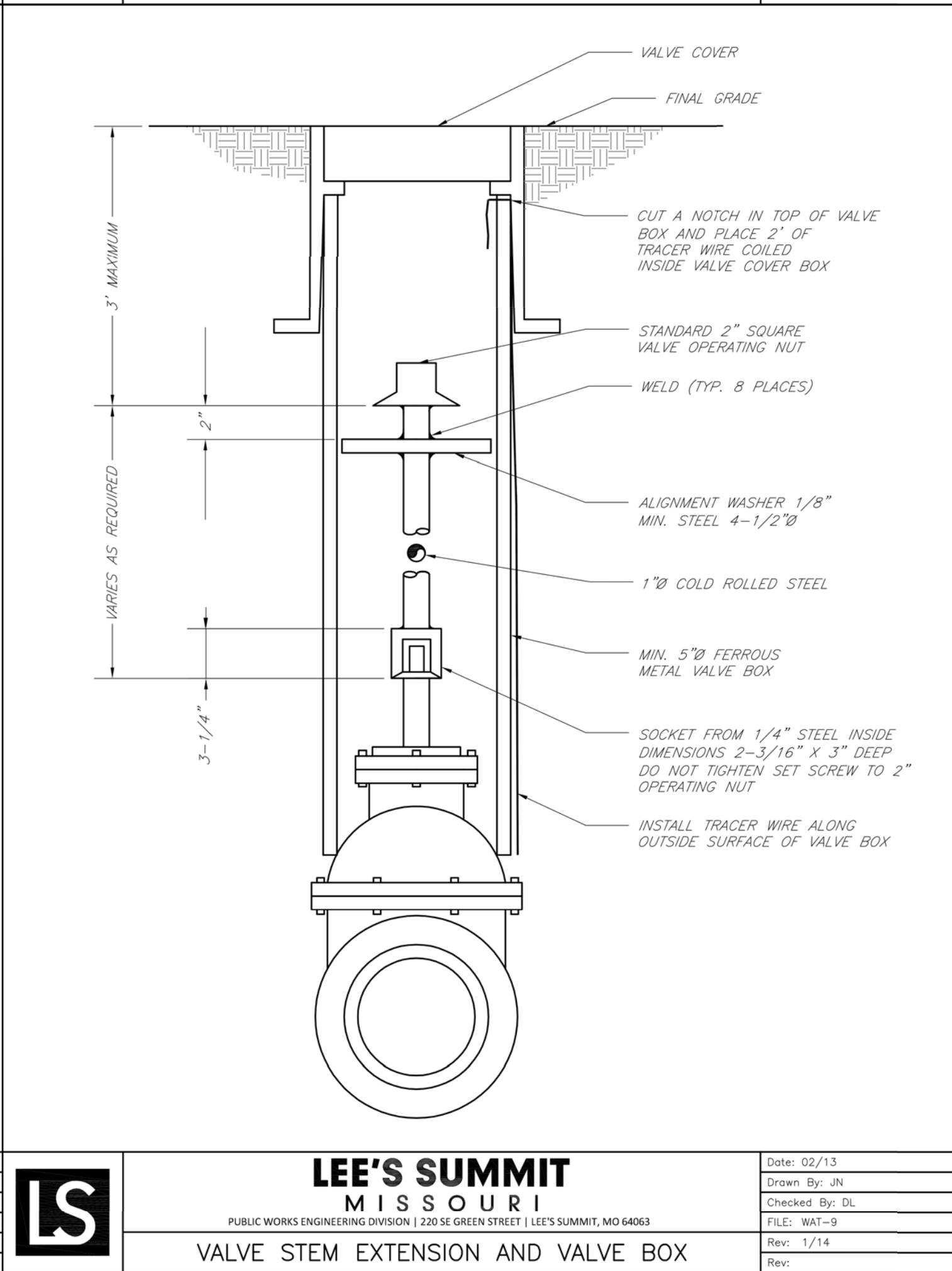
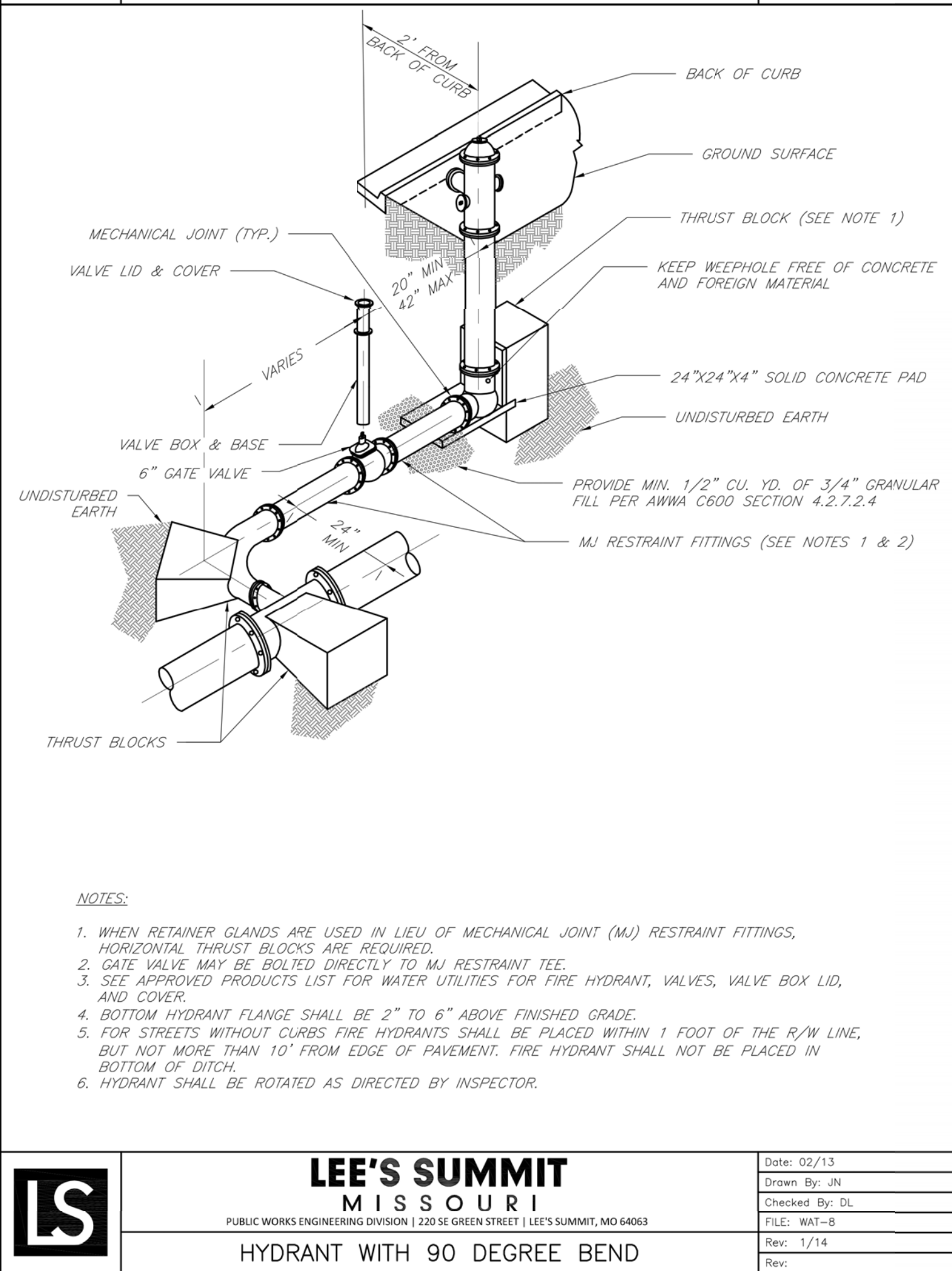
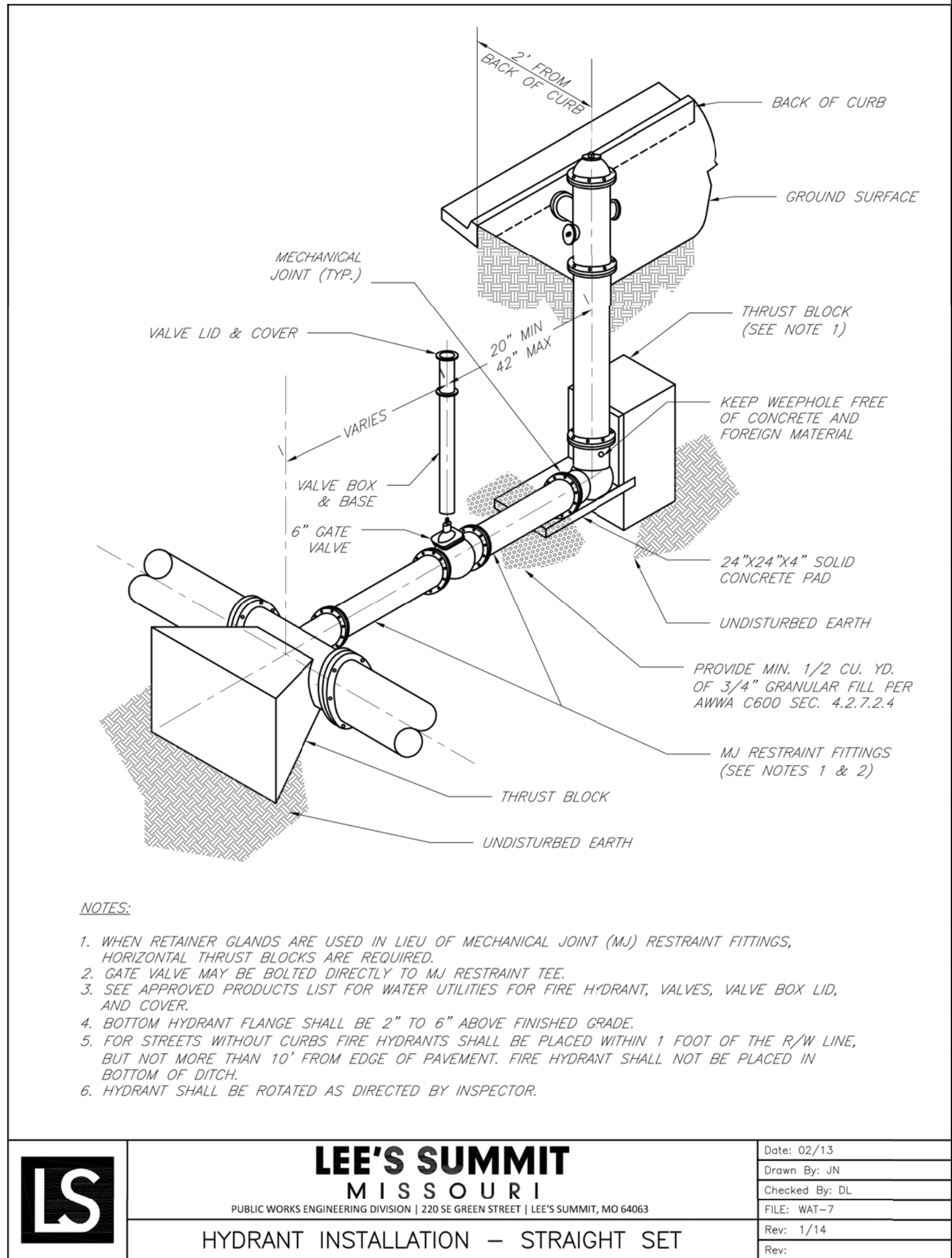
LS

LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-6
Rev: 1/14
Rev:

TRENCH CHECK



REVISIONS:

NO.	DATE
ORIGINAL	08/08/2019

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI

TIMOTHY D. CROCKETT

PROFESSIONAL ENGINEER

NUMBER 20040000775

MO LICENSE - 20040000775

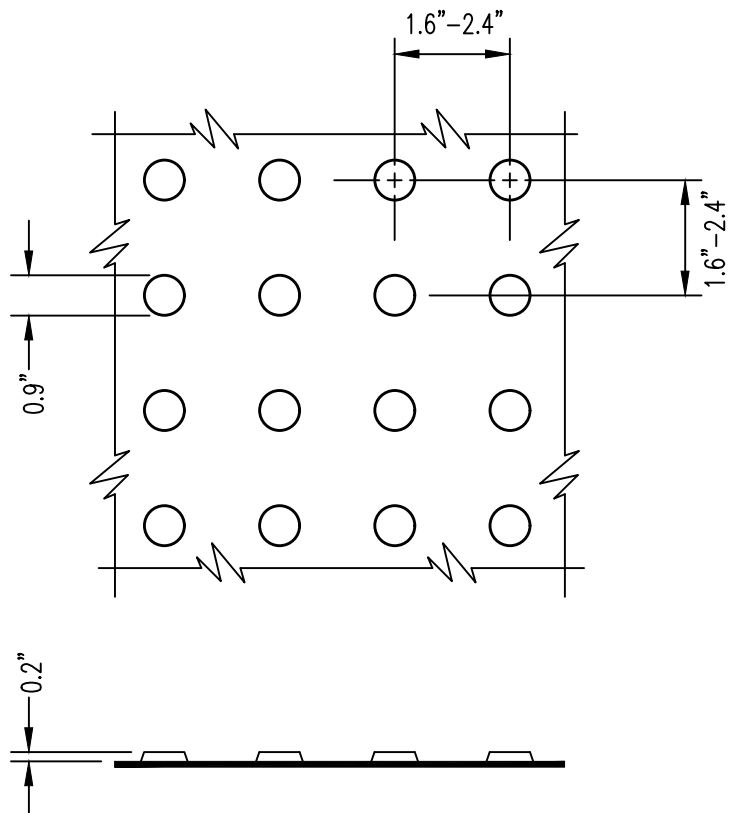
PREPARED BY: CROCKETT ENGINEERING CONSULTANTS, LLC
1000 Shawnee Mission Parkway, Suite 100
Shawnee, MO 64069
(870) 447-0992
www.crockettingeering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority #00083101

OWNER: KANSAS CITY SURGICAL AND DENTAL, LLC
GREGORY LOHMEYER, D.D.S.
(816) 806-6242

KANSAS CITY SURGICAL & DENTAL OFFICE
SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

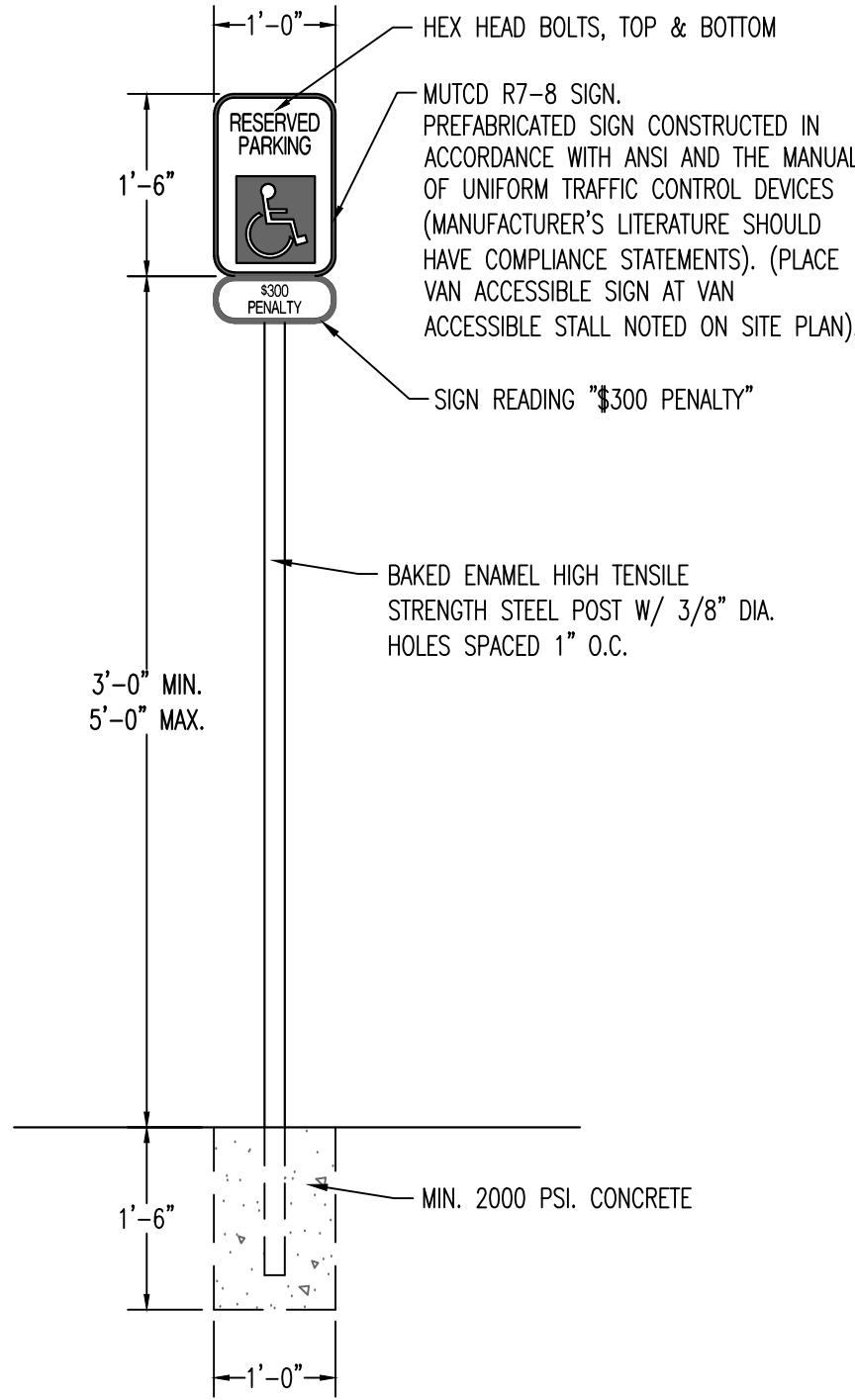
DRAWING INCLUDES: WATER LINE DETAILS

DESIGNED: TDC
DRAWN: JEE
PROJECT NO.: 190164
SHEET: CE 8

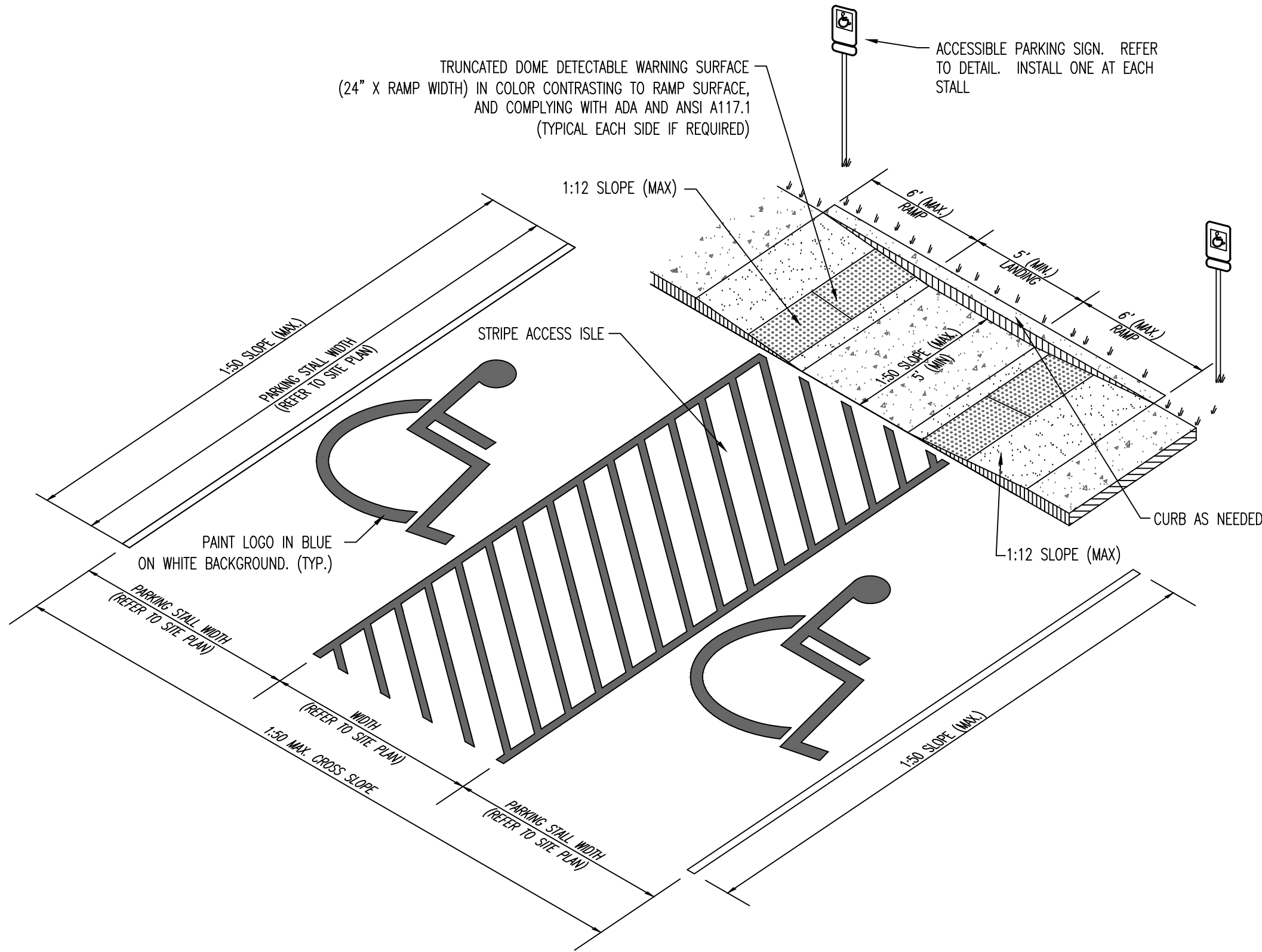


- NOTE:
1. DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9", A HEIGHT OF NOMINAL 0.2", AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35", AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, ACHIEVED BY THE INSTALLATION OF ADA SOLUTIONS 2436 REPBR, 2448 REPBR, OR 2460 REPBR (OR APPROVED EQUAL) AND SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
 2. ADA SOLUTIONS 24RADREPBR OR APPROVED EQUAL TO BE USED WITH DETAIL 430.02, 432.02, AND 1000.08.
 3. STAMPED CONCRETE IS NOT AN APPROVED EQUAL.
 4. DOWNTOWN DETECTABLE WARNINGS MAY BE ADA 2004 COMPLIANT DETECTABLE WARNING PAVERS.
 5. DETECTABLE WARNING PLATS ARE TO BE COLONIAL OR BRICK RED IN COLOR OR APPROVED EQUAL.
 6. DETECTABLE WARNING SURFACES SHALL BE 24" WIDE AND EXTEND THE FULL LENGTH OF THE PUBLIC USE AREA.

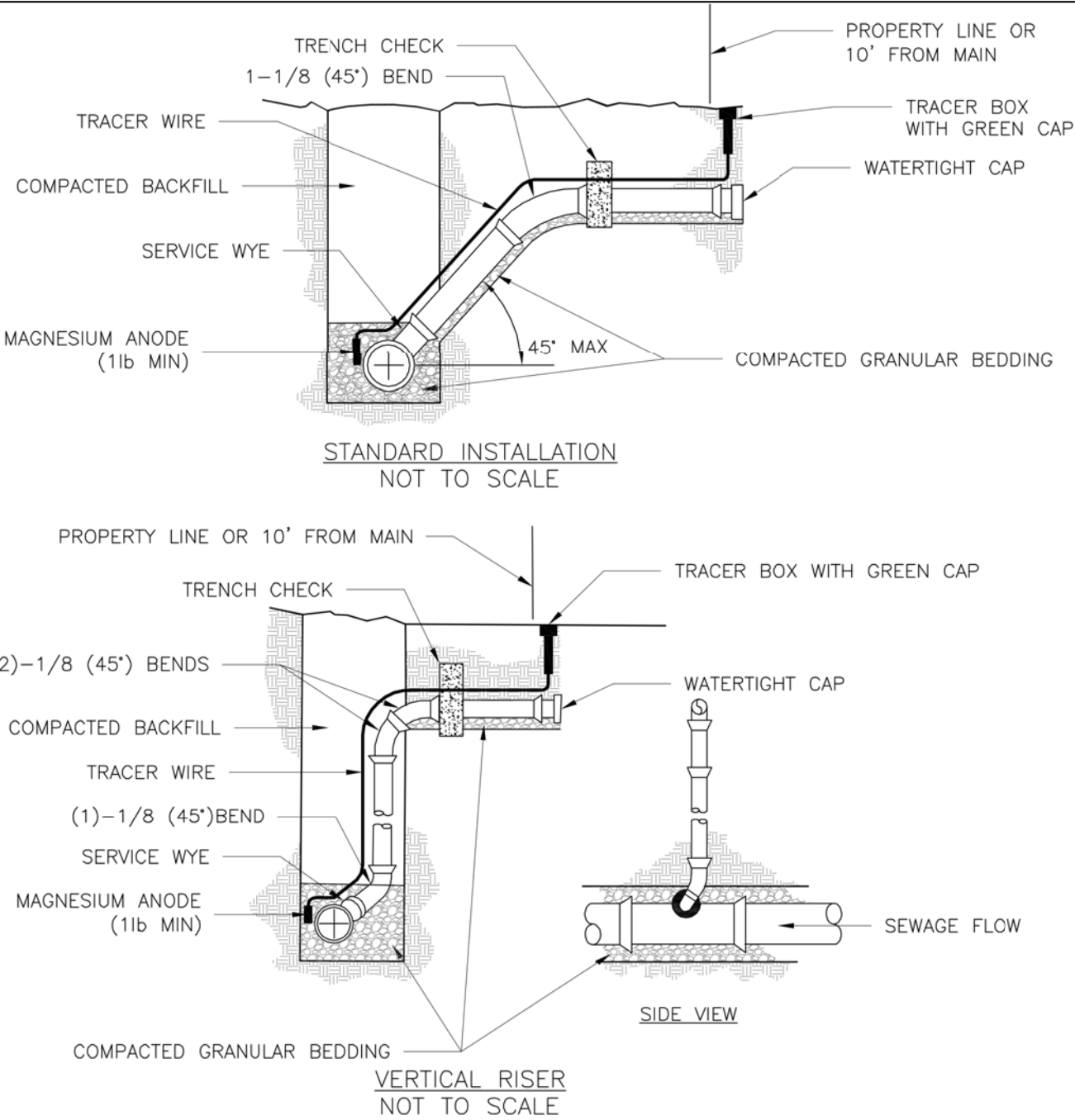
DETECTABLE WARNING



ACCESSIBLE PARKING SIGN



ACCESSIBLE PARKING STALL AREA DETAIL



- NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN, WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
 2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
 3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
 4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
 5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
 6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
 7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
 8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1' OF PROPERTY LINE.
 9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

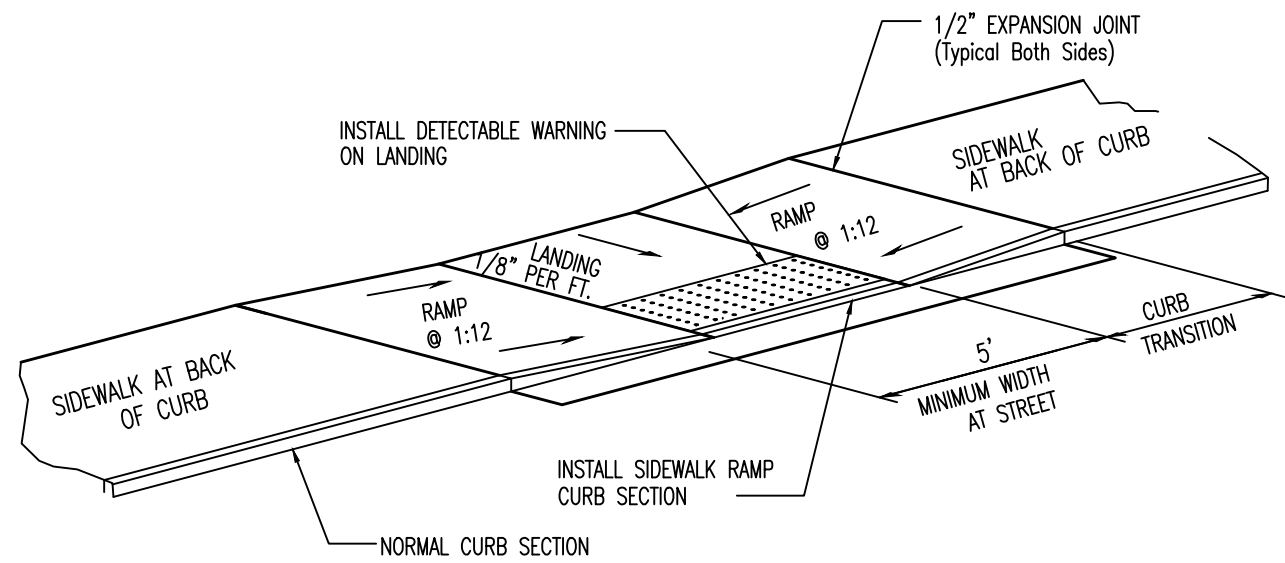


**LEE'S SUMMIT
MISSOURI**
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 04/17
Drawn By: MIF
Checked By: DL

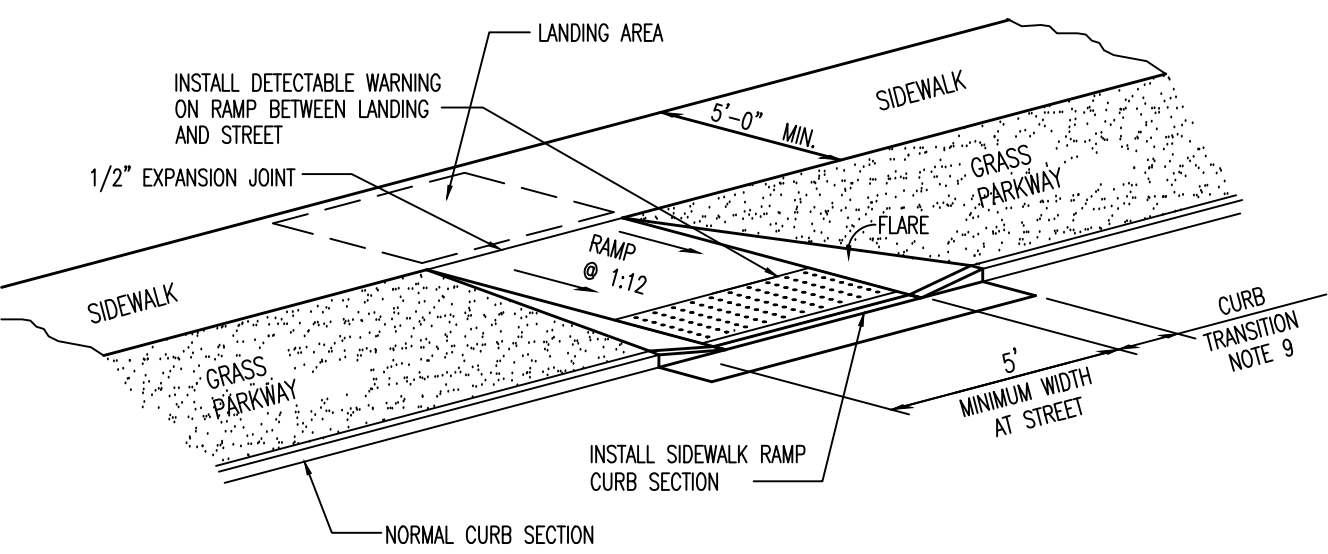
BUILDING SEWER STUB AND RISER

SAN-1



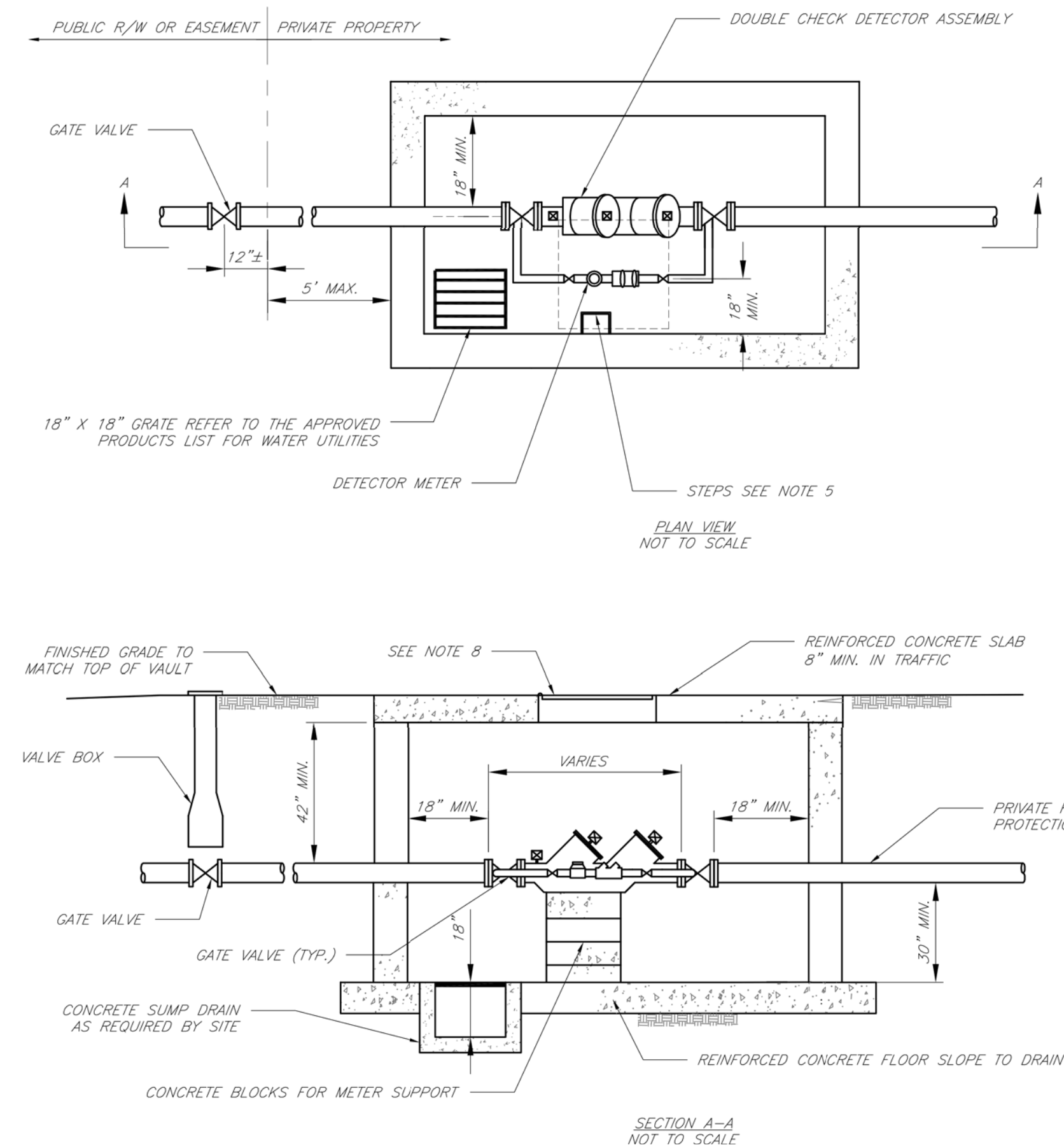
- NOTE:
1. RAMP SHALL BE 4" THICK CLASS A CONCRETE REINFORCED SAME AS SIDEWALK.
 2. EXPANSION JOINT SHALL BE 1/2" PREFORMED CORK OR BITUMINOUS EXPANSION JOINT MATERIAL.
 3. MAXIMUM RAMP CROSS SLOPE IS 2.00%.
 4. ALL SLOPES ARE MEASURED FROM THE HORIZONTAL.
 5. REPLACE STANDARD CURB SECTION WITH SIDEWALK RAMP CURB SECTION.
 6. RAMP LENGTH IS DEPENDENT ON 1:12 MAX. SLOPE. USE FLATTER WHEN POSSIBLE.
 7. LANDING AREA SHALL BE 4'-0" MIN WIDTH, CROSS SLOPE OF LANDING SHALL NOT EXCEED 2.00%.

MIDBLOCK SIDEWALK RAMP Sidewalk at Back of Curb



- NOTE:
1. RAMP SHALL BE 6" THICK CLASS A CONCRETE WITH #4 BARS AT 12" O.C. E.W.
 2. EXPANSION JOINT SHALL BE 1/2" PREFORMED CORK OR BITUMINOUS EXPANSION JOINT MATERIAL.
 3. ALL SLOPES ARE MEASURED FROM THE HORIZONTAL.
 4. REPLACE STANDARD CURB SECTION WITH SIDEWALK RAMP CURB SECTION.
 5. RAMP LENGTH IS DEPENDENT ON 1:12 MAX. SLOPE. USE FLATTER WHEN POSSIBLE.
 6. LANDING AREA AT TOP OF RAMP SHALL BE 4'-0" MIN WIDTH, CROSS SLOPE OF LANDING SHALL NOT EXCEED 2.00%.
 7. TYPE "A" RAMP NOT APPLICABLE IF PARKWAY WIDTH DOES NOT PROVIDE ENOUGH LENGTH FOR PERPENDICULAR RAMP AT 1:12 SLOPE.
 8. FLARES ARE REQUIRED AT RAMPS TO KEEP GRASS PARKWAY SLOPES IN CONFORMANCE WITH THE TYPICAL CROSS SECTION.
 9. CURB TRANSITION LENGTH IS DEPENDENT ON FLARE SLOPE.

MIDBLOCK SIDEWALK RAMP Sidewalk with Grass Parkway



- GENERAL NOTES:
1. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE, METER VAULT ROOF TO BE REINFORCED CONCRETE WITH OPENING CENTERED OVER DETECTOR METER. REINFORCED WALLS AND SLABS ARE TO BE DESIGNED BY THE OWNER'S ENGINEER OR PRECAST ENGINEER.
 2. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA AND WHERE SURFACE WATER WILL NOT DRAIN INTO IT. PROVIDE CONCRETE SUMP TO DRAIN TO AN ABOVE GROUND DISCHARGE POINT.
 3. ALL PIPE AND FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
 4. ALL FITTINGS FOR THE DETECTOR METER TO BE BRASS.
 5. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
 6. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT WATER UTILITIES AT 816-969-1900.
 7. ALL VALVES SHALL HAVE RISING STEMS.
 8. MANHOLE COVER SHALL BE A BILCO K-1 MODEL UNLESS IN A VEHICLE TRAFFIC AREA. SEE THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR TRAFFIC CONDITIONS. THE COVER SHALL HAVE A 1-3/4" HOLE DRILLED FOR A TOUCH/READ DEVICE.
 9. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
 10. CONTACT PUBLIC WORKS ENGINEERING FOR VAULTS THAT INCLUDE A FIRE DEPARTMENT CONNECTION OR A 3" OR LARGER METER.

**CITY OF LEE'S SUMMIT, MO
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION**



STANDARD DRAWINGS

Drawn By: AS
Checked By: DL
Date: 1/14
Rev: 1/14

WAT-12

REVISIONS:

NO.	DATE
ORIGINAL	08/08/2019

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

PREPARED BY:
CROCKETT
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10011 Shawnee Mission Parkway
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www.crockettingeering.com
Crockett Engineering Consultants, LLC
Missouri Certificate of Authority
#00003101

OWNER:

KANSAS CITY SURGICAL AND DENTAL LLC
GREGORY LOHRD DS, MD
(816) 906-6242

KANSAS CITY SURGICAL & DENTAL OFFICE

SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

ACCESSIBLE PARKING, ADA
RAMPS, WATER LINE &
SANITARY SEWER DETAILS

DESIGNED:

TDC

DRAWN:

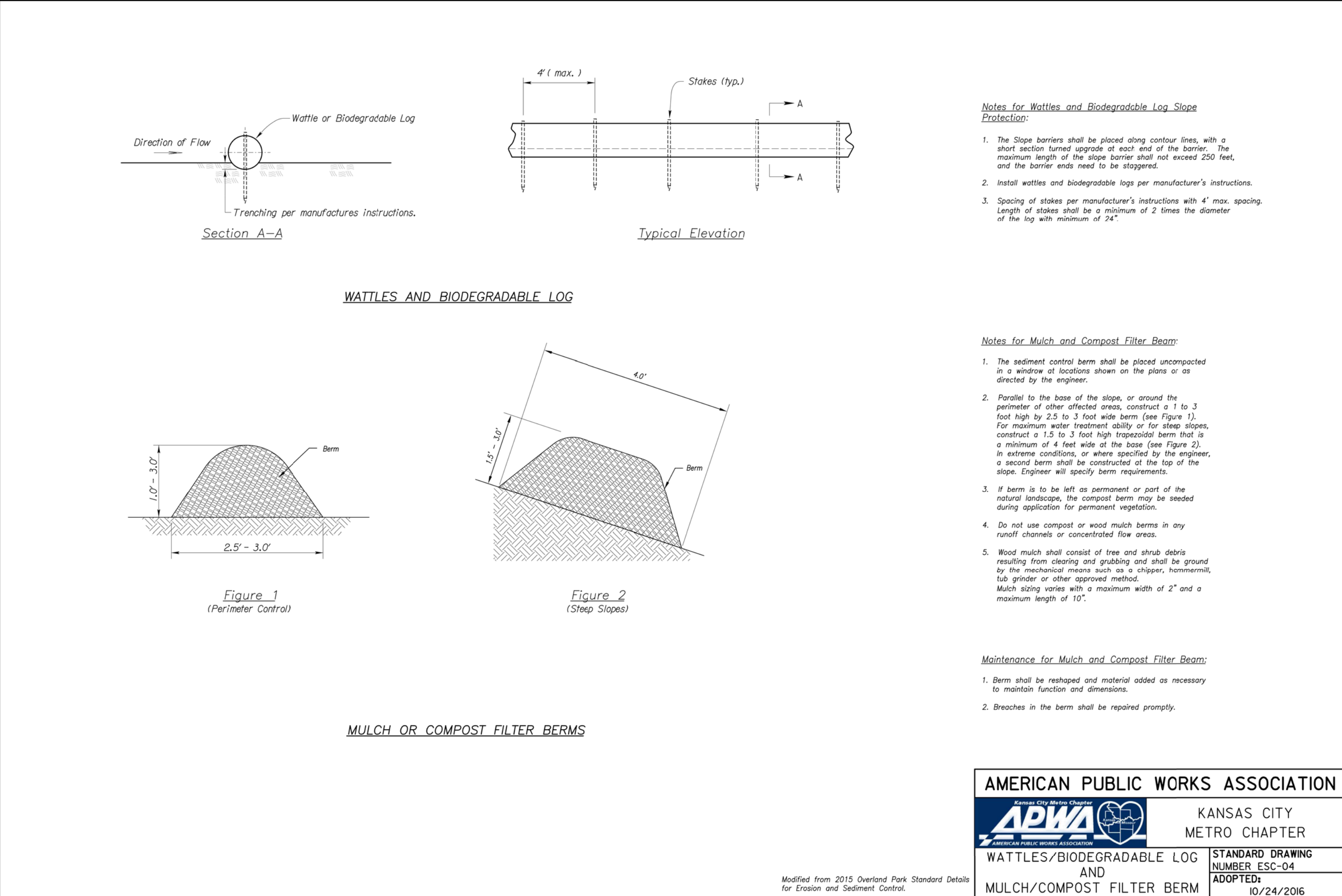
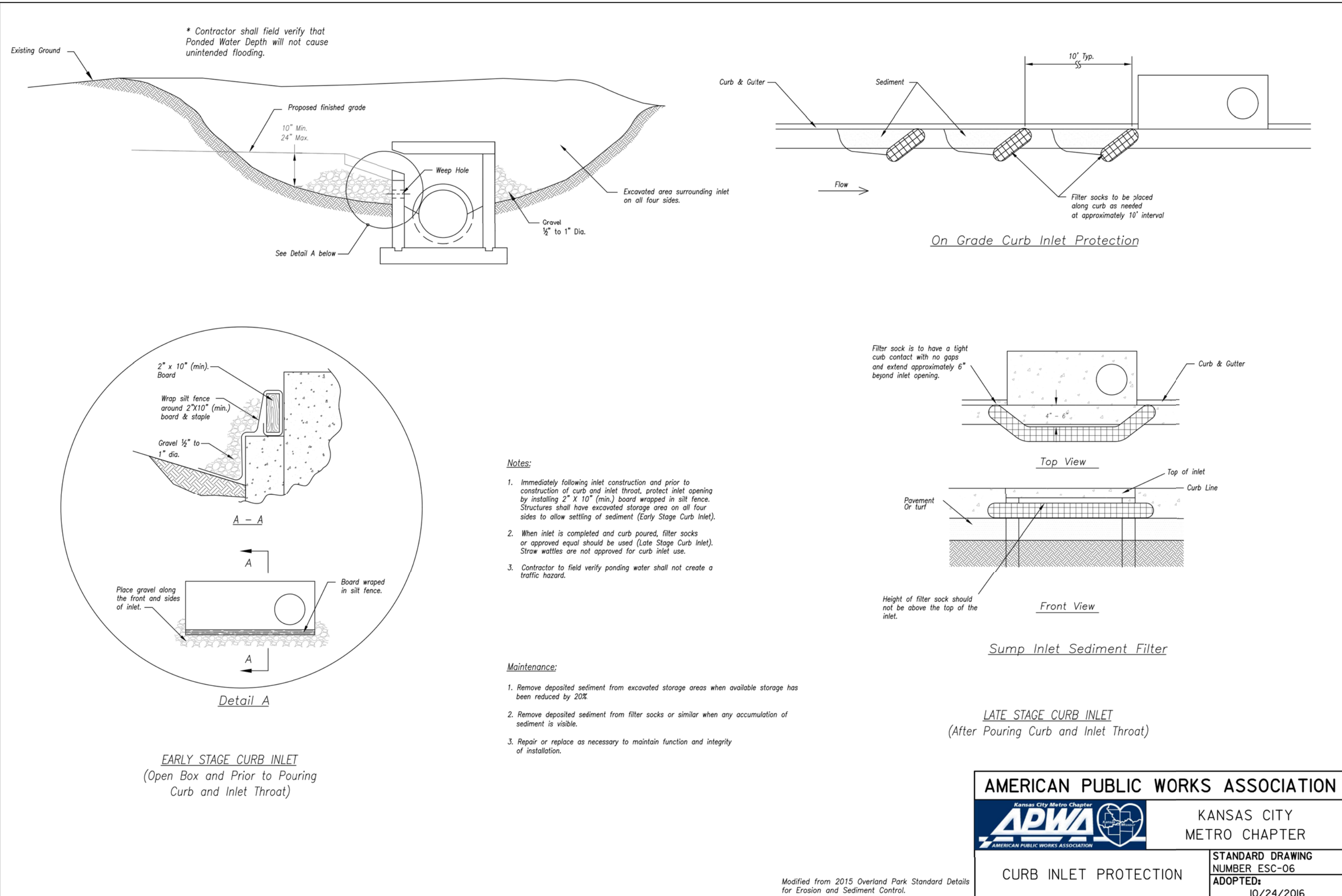
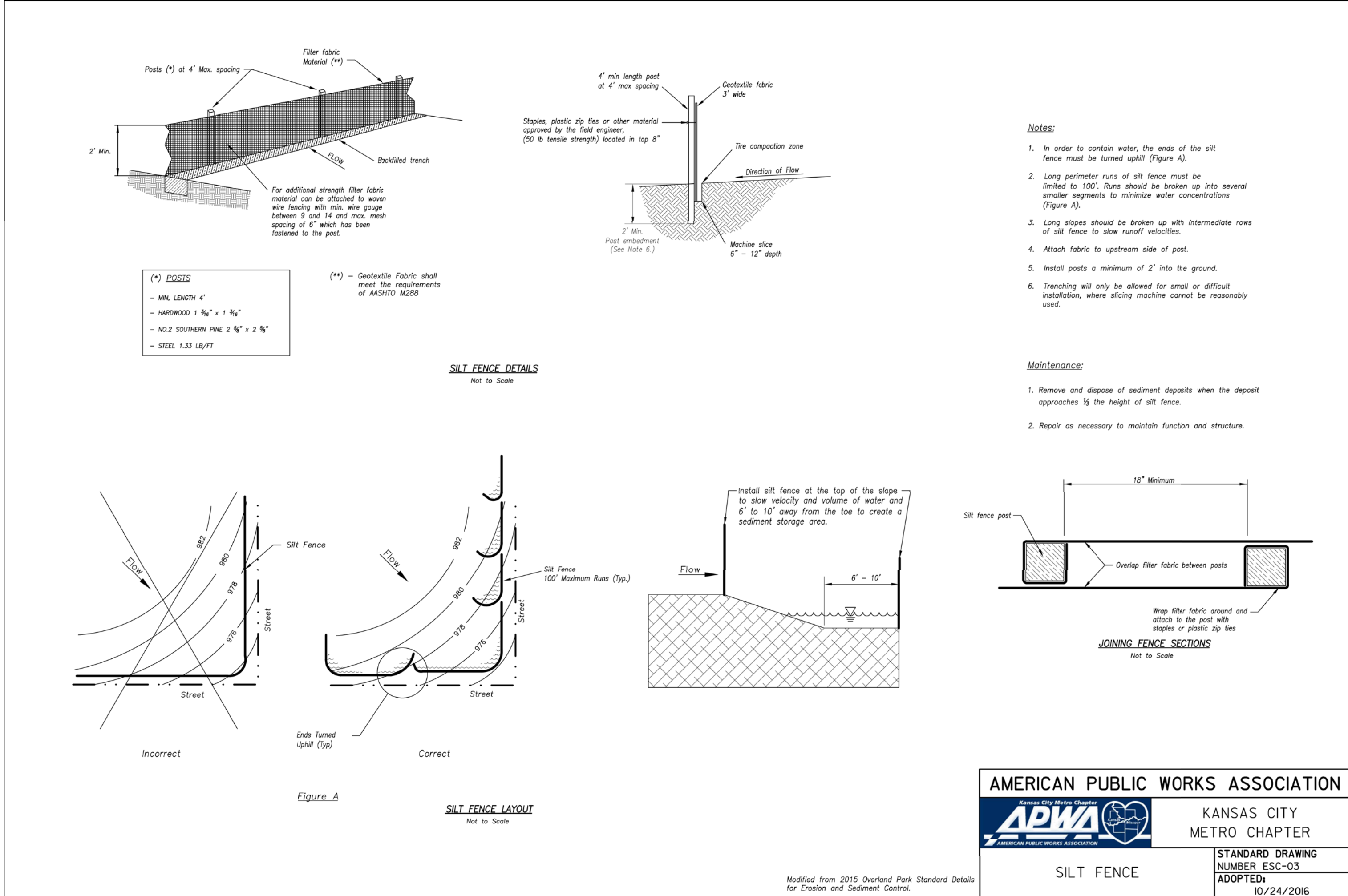
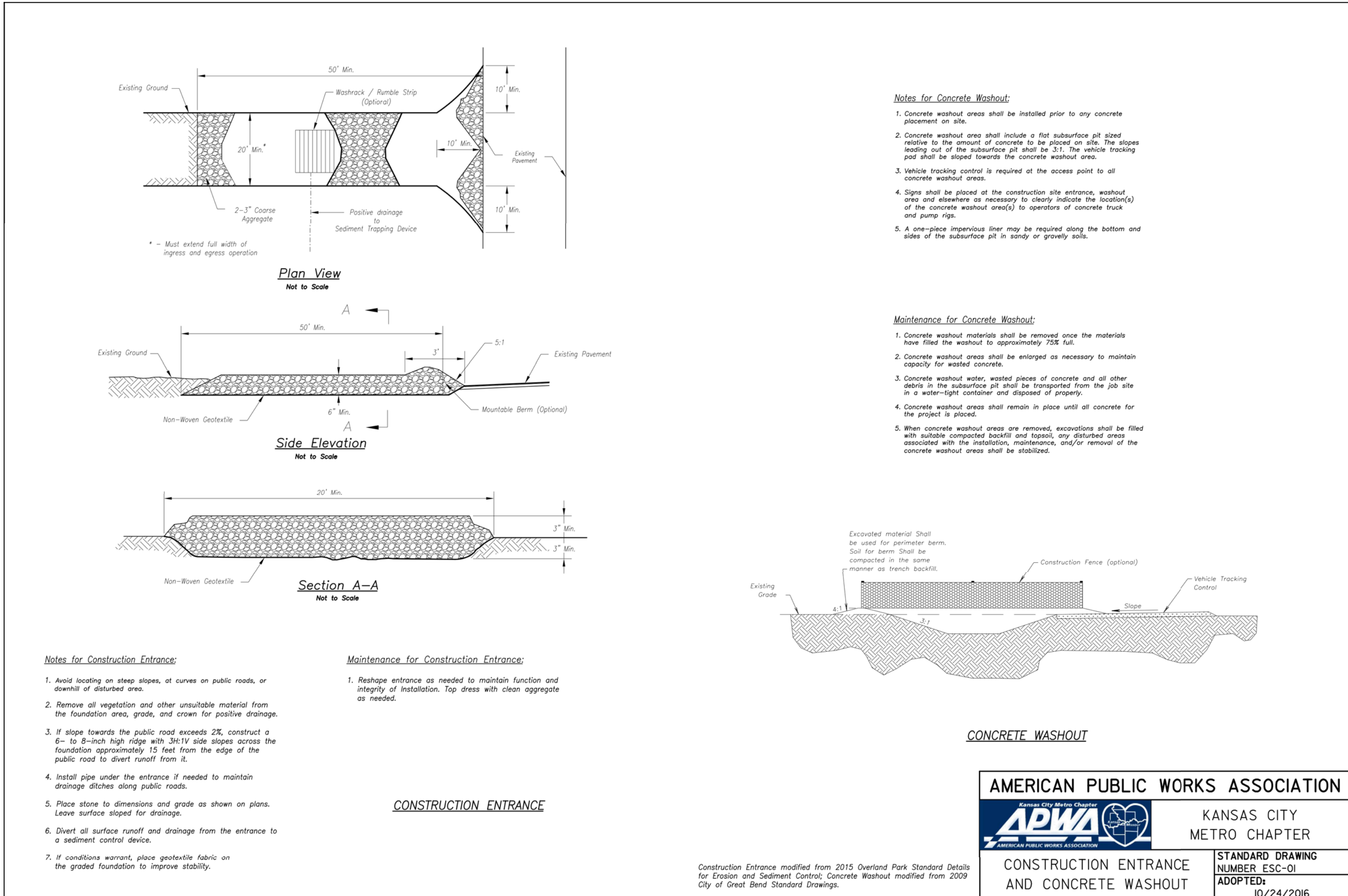
JEE

PROJECT NO.:

190164

SHEET:

CE 9



REVISIONS:

NO.	DATE
ORIGINAL	08/08/2019

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI
TIMOTHY D. CROCKETT
PROFESSIONAL ENGINEER
NO. 0004000775
MO LICENSE - 2004000775

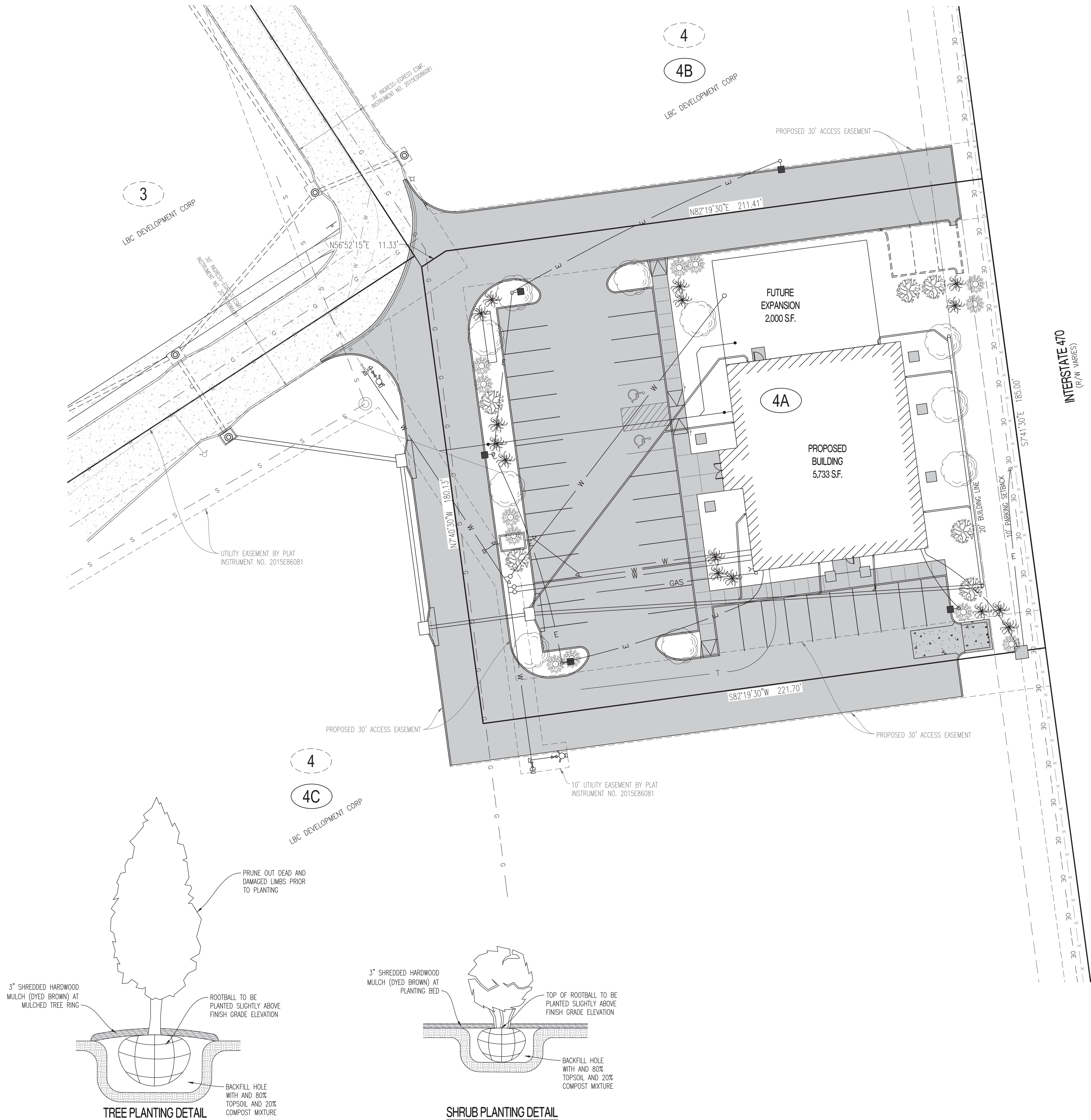
PREPARED BY:
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#00003101

OWNER:
KANSAS CITY SURGICAL AND DENTAL LLC
GREGORY LOHRD DS MD
(816) 806-6242

KANSAS CITY SURGICAL & DENTAL OFFICE
SECTION 20, TOWNSHIP 48 NORTH, RANGE 31 WEST
LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:
EROSION CONTROL DETAILS

DESIGNED: TDC
DRAWN: JEE
PROJECT NO.: 190164
SHEET: CE 10



LOT COVERAGES:		ACTUAL	
NET LAND AREA:		40,985 SQ.FT.	100%
TOTAL IMPERVIOUS SURFACE AREA:		28,337 SQ.FT.	69%
TOTAL OPEN SPACE:		12,648 SQ.FT.	31%

LANDSCAPE COMPLIANCE:			
TOTAL STREET FRONTAGE:		250 L.F.	
TREES REQUIRED @ 1 TREE PER 30 FEET OF STREET FRONTAGE:		9 TREES	
SHRUBS REQUIRED @ 1 SHRUB PER 20 FEET OF STREET FRONTAGE:		13 SHRUBS	
TOTAL OPEN YARD (TOTAL LOT AREA EXCLUDING BUILDING FOOTPRINT):		33,252 SQ.FT.	
TREES REQUIRED @ 1 TREE PER 5,000 SQ.FT.:		7 TREES	
SHRUBS REQUIRED @ 2 SHRUBS PER 5,000 SQ.FT.:		14 SHRUBS	
TOTAL TREES REQUIRED:		16 TREES	
TOTAL SHRUBS REQUIRED:		27 SHRUBS	
TOTAL TREES PROPOSED:		16 TREES	
TOTAL SHRUBS PROPOSED:		27 SHRUBS	

PLANTING NOTES:			
	QUANTITY	PLANT SPECIES	SIZE
	10	DECIDUOUS TREE	3" CALIPER
	6	EVERGREEN TREE	8" TALL
	12	DECIDUOUS SHRUB	2 GALLON
	15	EVERGREEN SHRUB	2 GALLON

- TREE & SHRUB SPECIES
- DECIDUOUS TREES:
- (3) - SWAMP WHITE OAK - "QUERCUS BICOLOR"
 - (3) - SHANTUNG MAPLE - "ACER TRUNCATUM"
 - (4) - RED JEWEL FLOWERING CRABAPPLE - "MALUS 'RED JEWEL'"
- EVERGREEN TREES:
- (3) - WHITE PINE - "PINUS STROBUS"
 - (3) - HETZI JUNIPER - "JUNIPERUS CHINENSIS"
- DECIDUOUS SHRUBS:
- (3) - BLACKHAW VIBURNUM - "VIBURNUM PRUNIFOLIUM"
 - (3) - LEATHERLEAF VIBURNUM - "VIBURNUM RHYTIDOPHYLLUM"
 - (3) - HYDRANGEA LITTLE LIME - "HYDRANGEA PANICULATA"
 - (3) - DWARF KOREAN LILAC - "SYRINGA MEYERI 'PALIBIN'"
- EVERGREEN SHRUBS:
- (5) - JUNIPER 'SAYBROOK GOLD' - "JUNIPERUS X MEDIA"
 - (5) - GLOBE BLUE SPRUCE - "PICEA PUNGENS GLOBOSA"
 - (5) - BOXWOOD 'GREEN VELVET' - "BUXUX 'GREEN VELVET'"

NOTES:

ALL PLANT MATERIALS AND FINAL LANDSCAPE PLAN SHALL BE IN ACCORDANCE WITH THE LANDSCAPING GUIDELINES AND STANDARDS OF THE CITY OF LEE'S SUMMIT.

LANDSCAPING SHALL COMPLY WITH ARTICLE 14 OF THE CITY OF LEE'S SUMMIT UNIFIED DEVELOPMENT ORDINANCE.

LANDSCAPING CONTRACTOR SHALL COORDINATE UTILITY LOCATES AND IDENTIFY ALL UNDERGROUND UTILITIES WITHIN THE LIMITS OF THEIR WORK AREA BEFORE ANY EXCAVATION MAY BEGIN.

SHRUB BEDS & TREE RINGS SHALL BE MULCHED WITH 3" OF DYED BROWN HARDWOOD MULCH.

LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF TWELVE MONTHS.

ALL PLANT MATERIALS MUST MEET THE SPECIFICATIONS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

ALL SEEDING AND SODDING SHALL CONFORM TO SECTION 2400 OF THE KANSAS CITY METROPOLITAN CHAPTER OF APWA CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION.

ALL DISTURBED AREAS SHALL BE COVERED WITH SOD, SEED OR MULCHED.

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STATE OF MISSOURI

TIMOTHY D. CROCKETT

NUMBER 0000000775

PROFESSIONAL ENGINEER

TIMOTHY D. CROCKETT

MO LICENSE - 2004000775

PREPARED BY:

CROCKETT

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