

Contract Drawings For

City of Lee's Summit, MO

Water Utilities Facility & Parking Lot Expansion Final Development Plan

Project No. 10417754 1200 SE Hamblen Rd, Lee's Summit, MO 64081

Date: 04/18/2025

CITY GENERAL NOTES:

1. ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ODRINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.

 THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.



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10450 HOLMES ROAD, SUITE 600 KANSAS CITY, MO 64131 816-360-2700	03/07/2025 DATE	FINAL DEVELOPMENT PLAN DESCRIPTION	PROJECT N
HDR MISSOURI CERTIFICATE OF AUTHORITY #000856	 04/18/2025	FDP WITH CITY COMMENTS INCORPORATED	_
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MANAGER	K. PRINDS
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ECHANICAL	M. WARRICK
T NUMBER	10417754

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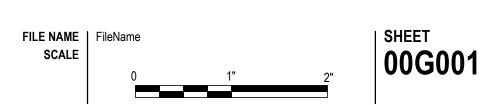
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City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion SHEET INDEX



VC	AIR CONDITIONING		CONCRETE	FV	FIELD VERIFY
νe	ARCHITECT/ENGINEER AMPERE		CONNECTION CONSTRUCTION	FLEX FLG	FLEXIBLE FLANGE
¬ \В	ANCHOR BOLT	CONST	CONTINUOUS	FLOR	FLUORESCENT
ABAN	ABANDON	COOR	COORDINATE	FLR	FLOOR
ABC ABT	AGGREGATE BASE COURSE ABOUT	CORR CP	CORROSIVE, CORRUGATED CHECKER PLATE, CONTROL POINT	FLS FN	FLASHING, FLUSH FENCE
AC	ALTERNATING CURRENT	CPLG	COUPLING	FO	FINISHED OPENING
ACK	ACKNOWLEDGE	CRL	CORROSION-RESISTANT LINING	FOB	FLAT ON BOTTOM
ACP	ACOUSTIC CEILING PANEL, ASPHALTIC CONCRETE PAVEMENT	CSC CSK	COMPRESSION SLEEVE COUPLING COUNTERSINK	FOC FOF	FACE OF CONCRETE, FACE OF CURB FACE OF FINISH
ACST	ACOUSTIC	CSS	CLINIC SERVICE SINK	FOM	FACE OF MASONRY
ND	ADDENDUM, AREA DRAIN	CT	CERAMIC TILE	FOS	FACE OF STUDS
ADDL ADH	ADDITIONAL ADHESIVE	CTJ CTR	CONTRACTION JOINT CENTER	FOT FPT	FLAT ON TOP FEMALE PIPE THREAD
ADJ	ADJUSTABLE, ADJACENT	CTRL	CONTROL	FR	FRAME
\F	AMP FRAME, AMP FUSE	CVT	CULVERT	FRP	FIBERGLASS REINFORCED PLASTIC
\FF \FG	ABOVE FINISH FLOOR ABOVE FINISH GRADE	CU CW	COPPER, CUBIC CLOCKWISE	FRTM FS	FIRE RETARDANT TREATED MATERIAL FLOOR SINK, FAR SIDE
AGGR	AGGREGATE	CY	CUBIC YARD	FT	FEET, FOOT
	AREA INLET, ANALOG INPUT			FTG	FOOTING, FITTING
AIC ALIG	AMPS INTERRUPTING CAPACITY ALIGNMENT	d D	PENNY (NAIL MEASURE) DEEP, DIFFUSER, DRAIN	FUR FURN	FURRED, FURRING FURNITURE, FURNISH
NLT	ALTERNATE, ALTITUDE	DB	DUCT BANK, DECIBEL, DRY BULB	FUT	FUTURE
LUM	ALUMINUM	DBA	DEFORMED BAR ANCHOR	FV	FACE VELOCITY
AM AMB	ACOUSTICAL MATERIAL AMBIENT	DBL DC	DOUBLE DIRECT CURRENT	FW FWD	FIELD WELD, FIRE WALL FORWARD
ANC .	ANCHOR	DEG	DEGREE	FWD	
0	ANALOG OUTPUT	DEG C	DEGREE CENTIGRADE	FXTR	FIXTURE
AP APRX	ACCESS PANEL APPROXIMATE	DEG F DEMO	DEGREE FAHRENHEIT DEMOLITION	G	GRILLE, GROUND
APRX APVD	APPROXIMATE	DEMO	DEPRESSED	GA	GAUGE (METAL THICKNESS)
ARCH	ARCHITECTURAL	DEPT	DEPARTMENT	GAL	GALLON
ASSY AT	ASSEMBLY ACOUSTICAL TILE, AMP TRIP	DET DI		GALV GB	GALVANIZED GRAB BAR, GRADE BREAK
	ACOUSTICAL TILE, AMP TRIP ACOUSTICAL TILE CEILING	DI	DROP INLET, DUCTILE IRON, DIGITAL INPUT DIAMETER	GB	GRAB BAR, GRADE BREAK GROOVED COUPLING
ΛТМ	ATMOSPHERE AUTO AUTOMATIC	DIAG	DIAGONAL, DIAGRAM	GD	GUARD
		DIFF DIM	DIFFERENTIAL, DIFFERENCE	GEN	
VE VG	AVENUE AVERAGE	DIM	DIMENSION DISCHARGE	GFCI GFMU	GROUND FAULT CIRCUIT INTERRUPTER GROUND FACE MASONRY UNIT
AWG	AMERICAN WIRE GAGE	DIST	DISTANCE, DISTRIBUTION	GG	GUTTER GRADE
WT	ACOUSTICAL WALL TILE	DIV		GJ	GROOVED JOINT
3 TO B	BACK-TO-BACK	DL DMJ	DEAD LOAD DOUBLE MECHANICAL JOINT	GL GLB	GLASS GLASS BLOCK, GLULAM BEAM
BAL	BALANCE	DMPF	DAMP PROOFING	GND	GROUND
BBD	BULLETIN BOARD	DN	DOWN	GP	GUY POLE
3C	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE	DO DP	DISSOLVED OXYGEN, DIGITAL OUTPUT, DITTO DEPTH	GR GRTG	GRADE GRATING
3D	BOARD	DPDT	DOUBLE POLE, DOUBLE THROW	GSB	GYPSUM SHEATHING BOARD
BE	BOTH ENDS, BELL END	DPST	DOUBLE POLE, SINGLE THROW	GT	GREASE TRAP
BF BITUM	BOTH FACES, BOTTOM FACE, BLIND FLANGE, BOARD FEET BITUMINOUS	DS DT	DOWN SPOUT DOUBLE TEE, DRIP TRAP ASSEMBLY	GVL GW	GRAVEL GUY WIRE
BKG	BACKING	DUP	DUPLICATE	GWB	GYPSUM WALLBOARD
3L	BASE LINE	DWG	DRAWING	GYP	GYPSUM HARDBOARD
BLDG BLK	BUILDING BLOCK	DWL DWR	DOWEL DRAWER	Н	HIGH
BLKG	BLOCKING		DIAWEI	HB	HOSE BIBB
BM	BENCHMARK, BEAM	E	EAST	HBD	HARDBOARD
BOC BOD	BACK OF CURB BOTTOM OF DUCT	EA EC	EACH, EXHAUST AIR ELECTRICAL CONTRACTOR	HC	HANDICAPPED, HOLLOW CORE, HORIZONTAL CU HORIZONTAL CENTERLINE
30D 30G	BOTTOM OF DOCT	EC	ECCENTRIC	HD	HEAD, HOT DIP
BOL	BOTTOM OF LOUVER, BOLLARD	ED	EQUIPMENT DRAIN	HDR	HEADER
BOP BOR	BOTTOM OF PIPE BOTTOM OF REGISTER	EDB EE	ELECTRICAL DUCT BANK EACH END	HDW HEX	HARDWARE HEXAGONAL
BOT	BOTTOM	EF	EACH FACE	HGR	HANGER
BOU	BOTTOM OF UNIT	EFF	EFFLUENT, EFFICIENCY	HH	HANDHOLE
3P 3RG	BASE PLATE BEARING	EHH EIFS	ELECTRICAL HANDHOLE EXTERIOR INSULATION & FINISH SYSTEM	HID HM	HIGH-INTENSITY DISCHARGE HOLLOW METAL
BRGP	BEARING PLATE	EJ	EXPANSION JOINT	HORIZ	
BRKT	BRACKET	EL	ELBOW, ELEVATION	HP	HIGH POINT, HORSEPOWER
BS BTU		ELEC EMBD	ELECTRICAL	HPC HPS	HORIZONTAL POINT OF CURVATURE HIGH-PRESSURE SODIUM
BTW	BRITISH THERMAL UNIT BETWEEN		EMBEDDED EMERGENCY	HPT	HORIZONTAL POINT OF TANGENCY
BTWLD	BUTT WELD	EMH	ELECTRICAL MANHOLE	HR	HOSE REEL, HOUR
BU BUR				HS HSS	HEADED STUD, HIGH STRENGTH
BUR BW	BUILT-UP ROOFING BOTH WAYS	ENGR	ENGINEER ENTRANCE	HSS HT	HOLLOW STRUCTURAL SHAPE HEIGHT
BYP	BYPASS	EOP	EDGE OF PAVEMENT	HTG	HEATING
стос	CENTER TO CENTER	EQ	EQUAL EQUIP EQUIPMENT EQUIVALENT	HV HVAC	HIGH VOLTAGE HEATING, VENTILATING AND AIR CONDITIONING
C&G	CURB AND GUTTER	EQUIV ES	EQUIVALENT EACH SIDE, EQUAL SPACE, EMERGENCY SHOWER	HVAC HWD	HARDWOOD
)	CHANNEL SHAPE, CENTIGRADE, CONDUIT	ESEW	EMERGENCY SHOWER AND EYE WASH	HWL	HIGH WATER LEVEL
CAB CAP	CABINET CAPACITY	EST EW	ESTIMATE EACH WAY, EMERGENCY EYE/FACE WASH	HYD HZ	HYDRAULIC HERTZ, CYCLES PER SECOND
CAT	CATALOG, CATALOGIORY	EWC	ELECTRIC WATER COOLER		
CAV	CAVITY	EWEF	EACH WAY, EACH FACE	ID	INSIDE DIAMETER, INTERIOR DIMENSION
CB CB	CATCH BASIN CONCRETE BLOCK	EWTB EXC	EACH WAY, TOP AND BOTTOM EXCAVATION	IE IF	INVERT ELEVATION, FOR EXAMPLE INSIDE FACE
CB CCW	CONCRETE BLOCK COUNTER CLOCKWISE	EXC EXH	EXHAUST	IH	INSIDE FACE INTAKE HOOD
DF	CONTROLLED-DENSITY FILL	EXP	EXPANSION, EXPOSED	IMP	IMPACT
)E)ER	CONCRETE EDGE CERAMIC	EXST EXT	EXISTING EXTERIOR, EXTERNAL, EXTENSION	IN INC	INCH INCLUDE, INCANDESCENT
CF	CUBIC FEET (FOOT)			INF	INFLUENT
CFL	COUNTER FLASHING			INSTR	INSTRUMENTATION
CHBD CHD	CHALKBOARD CHORD	F&B FAB	FACE AND BYPASS FABRICATE	INSUL INT	INSULATION INTERIOR, INTERSECTION
HFR	CHAMFER	FB	FLOOR BEAM	INTR	INTERMEDIATE, INTERIOR
СНН	COMMUNICATION HANDHOLE	FBD	FIBERBOARD	INV	INVERT
CI CIP	CURB INLET CAST-IN-PLACE	FBG FBM	FIBERGLASS BOARD FOOT MEASURE	IPS IPT	IRON PIPE SIZE INTERNAL PIPE THREAD
CIPB	CAST-IN-PLACE CONCRETE INTERLOCKING PAVER BALLAST	FBO	FURNISHED BY OWNER	IR	INTERNAL PIPE THREAD INSIDE RADIUS, IRON ROD
CIRC	CIRCULATION, CIRCULAR	FC	FLUSHING CONNECTION	IRR	IRRIGATION
СJ ты	CONSTRUCTION JOINT CIRCUIT	FCA FD		ISO	ISOMETRIC
CKT CL	CIRCUIT CENTERLINE, CLASS, CLOSE	FD FDC	FLOOR DRAIN FLEXIBLE DUCT CONNECTION	JB	JUNCTION BOX
CLG	CEILING	FDR	FEEDER	JCT	JUNCTION
	CAULKING	FDTN		JF	JOINT FILLER
CLR CMH	CLEAR COMMUNICATION MANHOLE	FE FEC	FLANGED END FIRE EXTINGUISHER CABINET	JST JT	JOIST JOINT
CMP	COMMONICATION MANHOLE CORRUGATED METAL PIPE	FEC	FLARED END SECTION	J J I	
CMU	CONCRETE MASONRY UNIT	FEXT	FIRE EXTINGUISHER	К	KIP
0	CLEANOUT, CONCRETE OPENING	FF	FAR FACE, FACTORY FINISH, FLAT FACE	KB	
	COLUMN COMMON	FG FH	FINISHED GRADE FIRE HYDRANT	KCMIL KD	THOUSAND CIRCULAR MILS KNOCK DOWN
		1 111			
COM	COMBINATION	FIG	FIGURE	KO	KNOCK OUT
COL COM COMB COMM COMP	COMBINATION	FIG FIN FJT	FIGURE FINISH FLUSH JOINT	KO KSI KW	KNOCK OUT KIPS PER SQUARE INCH KILOWATT

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KANSAS CITY, MO 64131 816-360-2700	ISSUE	DATE	DESCRIPTION	

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LE LF LG LH LIN LIQ LUH LUV LMLU LNG LOC LP LPS LR LT LTD LTG LTL LTG LTL LVL LVL LVR LW LWC	LAG BOLT, POUND LIQUID CHALK AND TACK BOARD LANDING LEADER LIFTING EYE LINEAR FOOT LONG LEFT HAND LINEAR LIQUID LONG LEG HORIZONTAL LONG LEG VERTICAL LIQUID MARKER LECTURE UNIT LONGITUDINAL
MA MACH MAINT MAN MATL MAX MB MBR MC MCB MCJ MDMJ MCJ MCJ MCJ MCJ MCJ MCJ MCJ MCJ MCJ M	MIXED AIR MACHINED MAINTENANCE MANUAL MATERIAL MAXIMUM MACHINE BOLT MEMBER MECHANICAL CONTRACTOR, MECHANICAL COUPLING, MOMENT CONNECTION METAL CORNER BEAD MASONRY CONTROL JOINT MODIFIED DOUBLE MECHANICAL JOINT MECHANICAL MEDIUM MANUFACTURER MANHOLE, METAL HALIDE MINIMUM MIRROR MISCELLANEOUS MECHANICAL JOINT MASONRY LINTEL MAIN LUGS ONLY MEMBRANE MASONRY OPENING MODULAR, MODIFY MONUMENT MALE PIPE THREAD MOISTURE-RESISTANT GYPSUM WALLBOARD MOP SINK MEAN SEA LEVEL MOUNT MASONRY UNIT MULLION MEDIUM VOLTAGE MONITORING WELL
N NA NC NEG NF NIC NO NOM NPS NPT NS NTS NWL	NATIONAL PIPE THREAD NEAR SIDE NOT TO SCALE
OA OC OCPD OD OED OF OFCI OFOI OFOI OFOI OFOI OPNG OPP OPT OR ORD ORIG OVFI	OUTSIDE DIAMETER OPEN END DUCT OUTSIDE FACE, OFFICE FURNISHING OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED ORIGINAL GROUND OVERHEAD OPENING OPPOSITE OPTIONAL OUTSIDE RADIUS OVERFLOW ROOF DRAIN ORIGINAL OVERFLOW OVERHANG
P PA PB PBD PC PCC PCF PCT PE PED	PAINT PUBLIC ADDRESS PARALLEL, PARAPET PANIC BAR, PULL BOX PARTICLE BOARD POINT OF CURVE, PIECE, PRECAST POINT OF COMPOUND CURVATURE POUNDS PER CUBIC FOOT PERCENT PLAIN END PEDESTAL

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PERF PERM PERP PF PFMU PH PI PLAS PLAT PLBG PLF PNEU POL POL PREF PREFAB PREF PREFAB PREP PRES PRI PROP PRES PRI PROP PROT PSF PSI PSIA PSIG PST PTN PVC PVMT PWD PWJ PZ	PENETRATION PERFORATED PERMANENT PERPENDICULAR POWER FACTOR PREFACED MASONRY UNIT PHASE POINT OF INTERSECTION PACKAGE PLATE, PROPERTY LINE, PRECAST LINTEL PLASTER PLATFORM PLUMBING
QTR QTY QUAL R&R R&S R RA RB RCPT RD REC RECD RECT RED REF REM REQD RESIL RET REV RF RFG RFL RGH RGS RGS-PVC RH RL FA RND RNG ROW RPM RCPT REP RT RY S	QUARTER QUANTITY QUALITY REMOVE AND REPLACE REMOVE AND SALVAGE RADIUS, REGISTER, RISER RETURN AIR RESILIENT BASE, ROCK BERM RECEPTACLE ROOF DRAIN RECESS RECEIVED RECTANGULAR REDUCER REFERENCE REINFORCING REMOVE REQUIRED RESILIENT RETAINING, RETURN REVISION, REVERSE RESILIENT FLOORING ROOFING REFLECTED, REFLECTOR ROUGH RIGID GALVANIZED STEEL D PVC COATED RGS RELIEF HOOD, RIGHT HAND, RELATIVE HUMIDITY REQUIRED LAP RELIEF AIR ROUND RUNNING ROUGH OPENING RIGHT-OF-WAY REVOLUTIONS PER MINUTE RAILROAD ROCK SLOPE PROTECTION RIGHT RESILIENT VINYL TILE READY SOUTH, SINK
SB SC SCH SCHEM SCN SE SEC SEC SF SG SH SHT SHTG SIL SIM SJ SL SLV SMLS SOG SP SPA SPEC SPLY SPST	SOUND-ABSORBING MASONRY UNIT SANITARY SPLASH BLOCK SOLID CORE SCHEDULE SCHEMATIC SCREEN STEEL/ALUMINUM EDGE SECONDARY, SECONDS SECTION SEPARATE SQUARE FOOT, SILT FENCE SHEET GLASS, SEALANT GROOVE SHOWER SHEET SHEATHING SILENCE SIMILAR SLAB JOINT SLOPE, STEEL LINTEL SLOTED SLEEVE SEAMLESS SLAB ON GRADE SOUNDPROOF, STANDPIPE SPACING SPECIFICATION SUPPLY SINGLE POLE SINGLE THROW

	6	7	8	_
SS	SERVICE SINK		GENERAL NOTES	
SST ST STA	STAINLESS STEEL STREET STATION		1. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.	
STD STIF STIR	STANDARD STIFFENER STIRRUP		2. LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.	
STL STOR STR	STEEL STORAGE STRUCTURAL, STRAIGHT		 ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "MOD" MAY MEAN 	
SUB SUC SUSP	SUBSTITUTE SUCTION SUSPENDED		MODIFY OR MODIFICATION, "INC" MAY MEAN INCLUDED OR INCLUDING, AND "REINF" MAY MEAN REINFORCE OR REINFORCING.	
SY SYM	SQUARE YARD SYMBOL		4. SEE INSTRUMENTATION AND GENERAL LEGEND SHEETS FOR	
SYMM SYN SYS	SYMMETRICAL SYNTHETIC SYSTEM		PROJECT-SPECIFIC EQUIPMENT AND PIPING SYSTEM ABBREVIATIONS.	
T&B T&G	TOP AND BOTTOM TONGUE AND GROOVE			
T TA	TILE, TREAD TOILET ACCESSORY, TEMPERED AIR			
TAN TBM TCE	TANGENT TEMPORARY BENCHMARK TEMPORARY CONSTRUCTION EASEMENT			
TEF TEMP THD	TROWELED EPOXY FLOORING TEMPORARY, TEMPERATURE THREAD			
THK TKBD	THICK THRESH THRESHOLD TACK BOARD			
TOB TOC TOD	TOP OF BOLT, TOP OF BANK, TOP OF BEAM, TOP OF BERM TOP OF CURB, TOP OF CONCRETE TOP OF DUCT			
TOF TOG TOL	TOP OF FOOTING TOP OF GRATING TOLERANCE, TOP OF LEDGER			
TOM TOP	TOP OF MASONRY TOP OF PLATE			
TOS TOW	TOPOGRAPHY TOP OF SLAB, TOP OF STEEL, TOE OF SLOPE TOP OF WALL			
TP TPD	TOILET PARTITION, TELEPHONE POLE, TOE PLATE, TRAP PRIMER TOILET PAPER DISPENSER			
TPG TR	TOPPING, THROUGH PLATE GIRDER TRANSOM TRANSITION			
TRANS TRD TYP	TRANSITION TRENCH DRAIN TYPICAL			
U UG	URINAL UNDERGROUND			
ULT UNFN UNO	ULTIMATE UNFINISHED UNLESS NOTED OTHERWISE			
UTIL	UTILITY			
V VA VAC	VENT, VELOCITY, VOLT VOLT AMPERE VACUUM			
VAR VB VC	VARNISH, VARIABLE, VOLT AMPERES REACTIVE VAPOR BARRIER, VINYL BASE, VALVE BOX VERTICAL CURVE			
VCP VCT	VITRIFIED CLAY PIPE VINYL COMPOSITION TILE, VERTICAL CENTERLINE			
VEL VENT VERT	VELOCITY VENTILATION VERTICAL			
VERTS VG VIF	VERTICAL REINFORCING VERTICAL GRAIN VERIFY IN FIELD			
VIN VOL	VINYL VOLUME			
VPC VPI VPT	VERTICAL POINT OF CURVATURE VERTICAL POINT OF INTERSECTION VERTICAL POINT OF TANGENCY			
VS VTR VWC	VERSUS, VAPOR SEAL VENT THROUGH ROOF VINYL WALL COVERING			
W/ W/O	WITH WITHOUT			
W WB	WATT, WEST, WIDE, WINDOW, WIRE, WIDE FLANGE BEAM WOOD BASE			
WC WD WF	WATER CLOSET, WATER COLUMN WOOD, WIDTH WIDE FLANGE, WASH FOUNTAIN			
WG WH WI	WIRE GLASS, WATER GAGE WALL HYDRANT, WEEP HOLE WROUGHT IRON			
WL WLD	WATER LEVEL WELDED			
WM WP WS	WIRE MESH WEATHERPROOF WATERSTOP, WATER SURFACE			
WSCT WT WTHP	WAINSCOT WEIGHT, WATER TIGHT WATERPROOF, WORKING POINT			
WWF	WELDED WIRE FABRIC			
	EXPLOSION-PROOF EXTRA STRONG CROSS SECTION			
XXS YH	DOUBLE EXTRA STRONG YARD HYDRANT			
YS	YIELD STRENGTH			

OJECT MANAGERK. PRINDSCIVILM. WIEBELHAUSARCHITECTURALE. BUTTMANMECHANICALM. WARRICK OJECT NUMBER 10417754



City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion

ABBREVIATIONS



sheet 00G002

MATERIALS IN F	² PLAN/SECTION	³ GENERAL SYMBOLOGY	4 GENERAL TAGGING	SHEET NAMING CONVENTION	FIRE & LIFE SA
Image: A construction of the second of th	MATERIAL - SOIL - COMPACTED - EARTH MATERIAL - SOIL - UNDISTURBED - FINE MATERIAL - SOIL - UNDISTURBED - FINE MATERIAL - SOIL - UNDISTURBED - EARTH MATERIAL - TERRAZZO - 1 MATERIAL - TERRAZZO - 2 MATERIAL - TERRAZZO - 1 MATERIAL - WOOD - FINISH - COURSE GRAIN MATERIAL - WOOD - FINISH - COURSE GRAIN MATERIAL - WOOD - FINISH - COURSE GRAIN MATERIAL - WOOD - FINISH VERTICAL GRAIN MATERIAL - WOOD - FINISH VERTICAL GRAIN MATERIAL - WOOD - PARTICLE BOARD MATERIAL - WOOD - CONTINUOUS - SECTION MATERIAL - W	ARROW INDICATES DIRECTION OF THUE NORTH NORTH ARROW NORTH ARROW MATCH LINE MATCH MATCH SHEET WHERE MATCH MATCH MATCH MATCH LINE MATCH LINE MATCH MATC	ROOMISPACE NAME XAXX DOOR MARK STAR XXXX XXXXX XXXXXXXXX		

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TY #000856	1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED	
DLMES ROAD, SUITE 600	0	03/07/2025	FINAL DEVELOPMENT PLAN	
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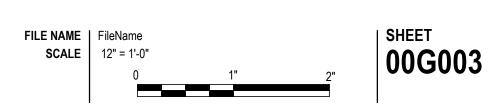
HDR MISSOU AUTHOR 10450 H0 KANSAS 816-360-



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FIRE & LIFE SAFETY	GENERAL NOTES	
	 THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE. 	С
		В
		A

GENERAL LEGEND



	1	2	3
		CIVI	L MAPPING SYMBOLOGY
	EMBANKMENT SLOPE (CUT)	©	CLEANOUT
T T T	EMBANKMENT SLOPE (FILL)		CULVERT END SYMBOL (WITH CULVERT SHOWN BETWEEN SYMBOLS)
H:V	EMBANKMENT SLOPE RIGHT ARROW RIGHT	∑X (F)	FIRE HYDRANT FUEL OIL METER
H:V	EMBANKMENT SLOPE LEFT ARROW LEFT	E F	FUEL OIL MANHOLE
\times	SPOT ELEVATION/POINT #	F C	FUEL OIL VAULT
	SURVEY BENCHMARK	GT	GREASE TRAP
CP-X	SURVEY CONTROL POINT	GC	GRIT CHAMBER
	HORIZONTAL CONTROL POINT		HEADWALL
\odot	VERTICAL CONTROL POINT		INDUSTRIAL WASTE WATER METER
	SECTION CORNER MONUMENT		INDUSTRIAL WASTE WATER MANHOLE
	SECTION CORNER NO MONUMENT	G	NATURAL GAS METER
€x	IDENTIFICATION AND APPROXIMATE LOCATION OF SOIL TEST HOLE	G	NATURAL GAS RECEIVER

G

G

MW

PS

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ST

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NATURAL GAS TRAP

MONITORING WELL

PUMP STATION

SEPTIC TANK

SANITARY MANHOLE

TANK BELOW GROUND

TANK HORIZONTAL ABOVE GROUND

TANK VERTICAL ABOVE GROUND

POST INDICATOR VALVE

NATURAL GAS LINE VAULT

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TEST PIT

BUOY

SOIL BORING

FLOW ARROW

TIDE GAUGE

DOWNGUY

EXISTING UTILITY POLE

WATER LEVEL IN SECTION/PROFILE

EXTERIOR UTILITY JUNCTION BOX

INTERSTATE HIGHWAY SYMBOL

US HIGHWAY SYMBOL

STATE HIGHWAY SYMBOL

HAY BALE SILT CHECK

PIEZOMETER

RAIL SIGNAL

RAIL SWITCH

TIRE TREDDLE

TRAFFIC ARM WITH CARD READER

TRAFFIC ARM MECHANICAL SWING

SIGN

TEMPORARY SEDIMENT TRAP

	. `	
-		

HDR ENGINEERING, INC. | CA0443AE

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1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED	
			MEC
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			PROJECT M

	4	5	
СВ	STORM CATCH BASIN		PIPELINE
CB	STORM ROUND CATCH BASIN	·	LARGE PIPELIN
D	STORM DRAINAGE MANHOLE		- UTILITY BENEA
ŀ	WATER/AIR VENT		- RAILROAD
¥.	WATER BACKFLOW PREVENTER		- CENTERLINE
••-	WATER BLOWOFF		 BOTTOM OF DI PROPERTY LIN
$\langle W \rangle$	WATER METER		- EASEMENT
**	WATER SHUTOFF		- LIMITS OF CON
WS	WATER SOFTENER		- ROW
Ŵ	WATER VALVE VAULT		- EXISTING CON
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			EXISTING VEGE

	PIPELINE
·	LARGE PIPELINE
	UTILITY BENEATH STRUCTURE
	RAILROAD
	CENTERLINE
	BOTTOM OF DITCH
	PROPERTY LINE
	ROW
	EXISTING CONTOUR (MINOR)
<u></u> 25	EXISTING CONTOUR W/ELEVATION (MAJOR)
XXX	EXISTING FENCE
	EXISTING VEGETATION/BRUSH LINE
X	FENCE - BARB WIRE
_OO	FENCE - CHAIN LINK
X	FENCE - FIELD
XXX	FENCE - OTHER
-0	FENCE - WOOD
XX	FENCE - WOVEN WIRE
25 YEAR	FLOOD LIMIT (25 YEAR)
50 YEAR	FLOOD LIMIT (50 YEAR)
100 YEAR	FLOOD LIMIT (100 YEAR)
500 YEAR	FLOOD LIMIT (500 YEAR)
<u> </u>	HIGHWAY GUARDRAIL
	LEVEE TOP
	LEVEE TOE
	NEW CONTOUR (MINOR)
25	NEW CONTOUR (MAJOR)
	ROCK BERM
	SILT FENCE
LOD LOD	LIMITS OF DISTURBANCE
	TOE OF SLOPE
	TOP OF SLOPE

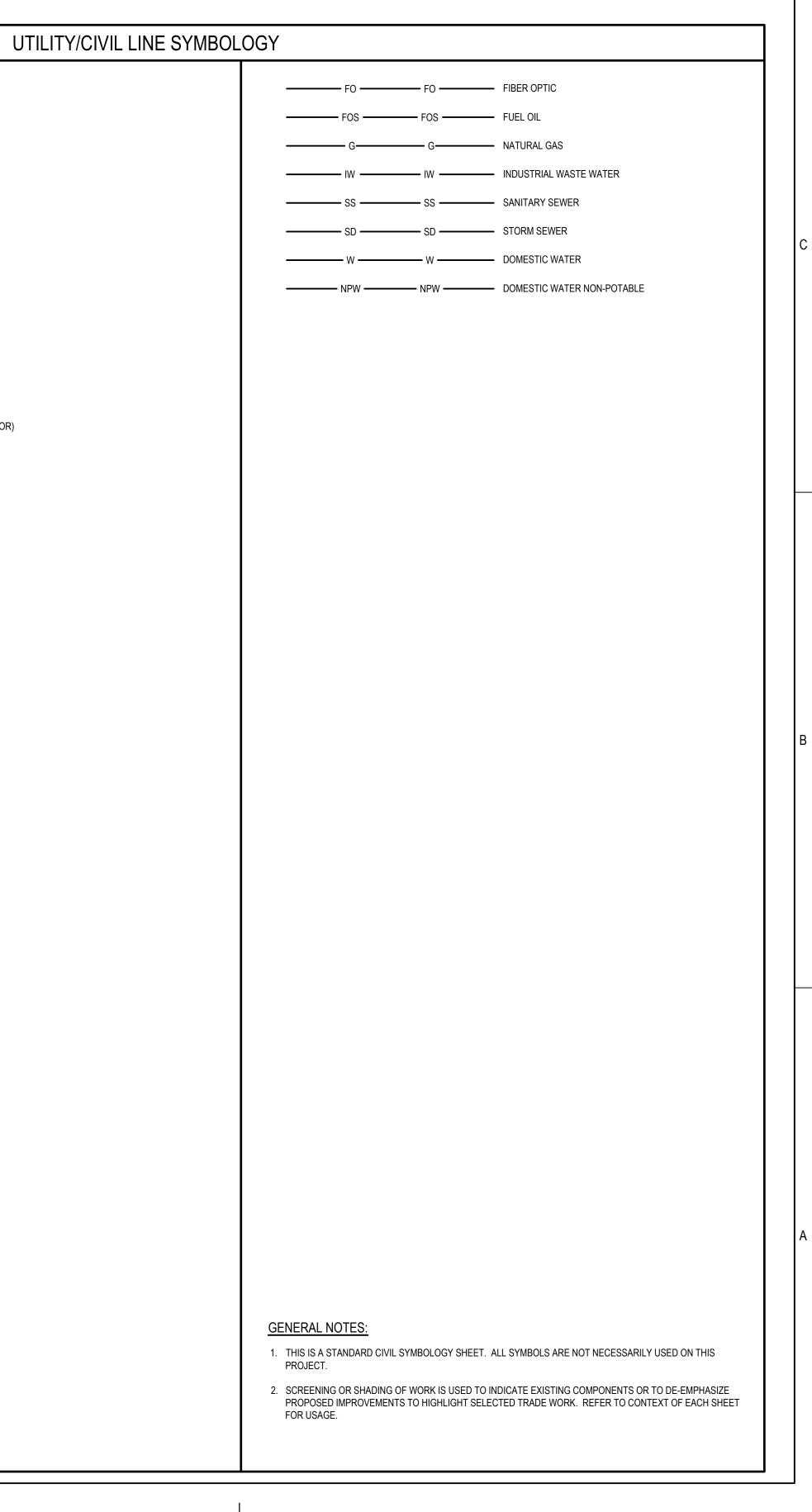
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JECT MANAGER	K. PRINDS
CIVIL	M. WIEBELHAUS
RCHITECTURAL	E. BUTTMAN
MECHANICAL	M. WARRICK
OJECT NUMBER	10417754
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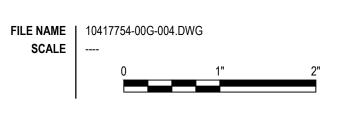
City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion











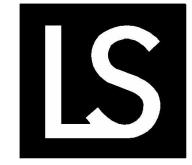
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PIPING SYSTEMS	PIPING SYMBOLOGY	HVAC SYN	IBOLOGY	TEMPERATURE CON	NTROL DIAGRAM SYMBOLOGY
CALE COMPRESSION WATER POTABLE (VM) COMPARISE POTABLE (VM) COMPARISE POTABLE COLD WATER RECIRCULATING, POTABLE (VMC) COMPARISE COLD WATER RECIRCULATING, POTABLE COLD WATER RECIRCULATING, POTABLE COLD WATER RECIRCULATING, POTABLE COLD WATER RECIRCULATING, POTABLE COLD WATER RECIRCULATING, POTABLE COLD WATER RECIRCULATING, POTABLE COLD WATER RECIRCULATING, COMPARISE RECIRCULATING, COMPARISE RECIRCULATING, POTABLE SUPER RELIOW GRADE COMPARISE RECIRCULATING, PO PRESSURE DRAINAGE STORM DRAIN ABOVE GRADE COMPANIENTON WASTE AND VENT PD PRESSURE DRAINAGE STORM DRAIN NELOW GRADE COMPANIENCIAN COMPANIEN	PIPE ANCHOR PIPE QUIDE PIPE QUIDE PIPE QUIDE PIPE QUIDE PIPE SSURE PIPESSURE PIPING CONNECTION PIPE SSURE GAUGE PIESSURE GAUGE PIESSURE GAUGE PIESSURE GAUGE PIESSURE GAUGE PIESSURE CAUGE PIESSURE CAUGE PIESSURE CAUGE PIESSURE CAUGE PIESSURE PIPING CONNECTION WYE STRAINER AUTOMATIC AIR VENT METER (WATER GAS, PICO PICO CLEANOUT WCO_T WALL CLEANOUT WCO_T WALL CLEANOUT WCO_T WALL CLEANOUT PICE CAP PIESSURE CAUCER, FLAT ON FOR PIESSURE COUCER, FLAT ON FOR PIESDUCER, FLAT PIESDUCER, FLAT PIESDUCER PIESDUCER, FLAT PIESDUCER, FLAT PIESDU	24418 SUPPLY AIR OR OUTSIDE AIR DUCT UP (SECTION CUT) SUPPLY AIR OR OUTSIDE AIR DUCT DOWN (NO SECTION CUT) SUPPLY AIR OUT OUTSIDE AIR DUCT OWN (NO SECTION CUT) RETURN AIR DUCT DOWN (NO SECTION CUT) RETURN AIR DUCT DOWN (NO SECTION CUT) RETURN AIR DUCT DOWN (NO SECTION CUT) ROUND ELBOW UP ROUND ELBOW UP ROUND ELBOW UP ROUND ELBOW OPN RECTANGULAR TO ROUND DUCT STANDARD BRANCH ELBOW - (RECTANGULAR) SMOOTH RADUS B&Ø ROUND DUCT SIZE ROUND DUCT SIZE RECTANGULAR DUCT OR OPENING SIZE FRAIT NUMBER INDUCTIES BØ ROUND DUCT SIZE RECTANGULAR DUCT NOUNE- RISE OR DROP IN RESPECT TO THE AIR FLOW ROUND DUCT SIZE BØ BØ <td< th=""><th>Image: Supply and Register Image: Supply and Register Im</th><th>S S S S S S S S S S S S S S S S S S S</th><th>SENSOR XX NSOR XX SENSOR RA RETURN FAN RETURN FAN RL RELIEF FAN</th></td<>	Image: Supply and Register Im	S S S S S S S S S S S S S S S S S S S	SENSOR XX NSOR XX SENSOR RA RETURN FAN RETURN FAN RL RELIEF FAN
		PROJECT MANAGER K. PRI			
		CIVIL M. WIE ARCHITECTURAL E. BUT MECHANICAL M. WA	TTMAN		City of Lee's Summi Water Utilities Facility & F
					Water Iltilities Facility & C

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HDR MISSOURI CERTIFICATE OF AUTHORITY #000856 10450 HOLMES ROAD, SUITE 600 KANSAS CITY, MO 64131 816-360-2700

ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10417754
0	03/07/2025	FINAL DEVELOPMENT PLAN		
1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED		
			[
			MECHANICAL	
			ARCHITECTURAL	E. BUTTMAN
			CIVIL	M. WIEBELHAUS
			PROJECT MANAGER	K. PRINDS



City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion

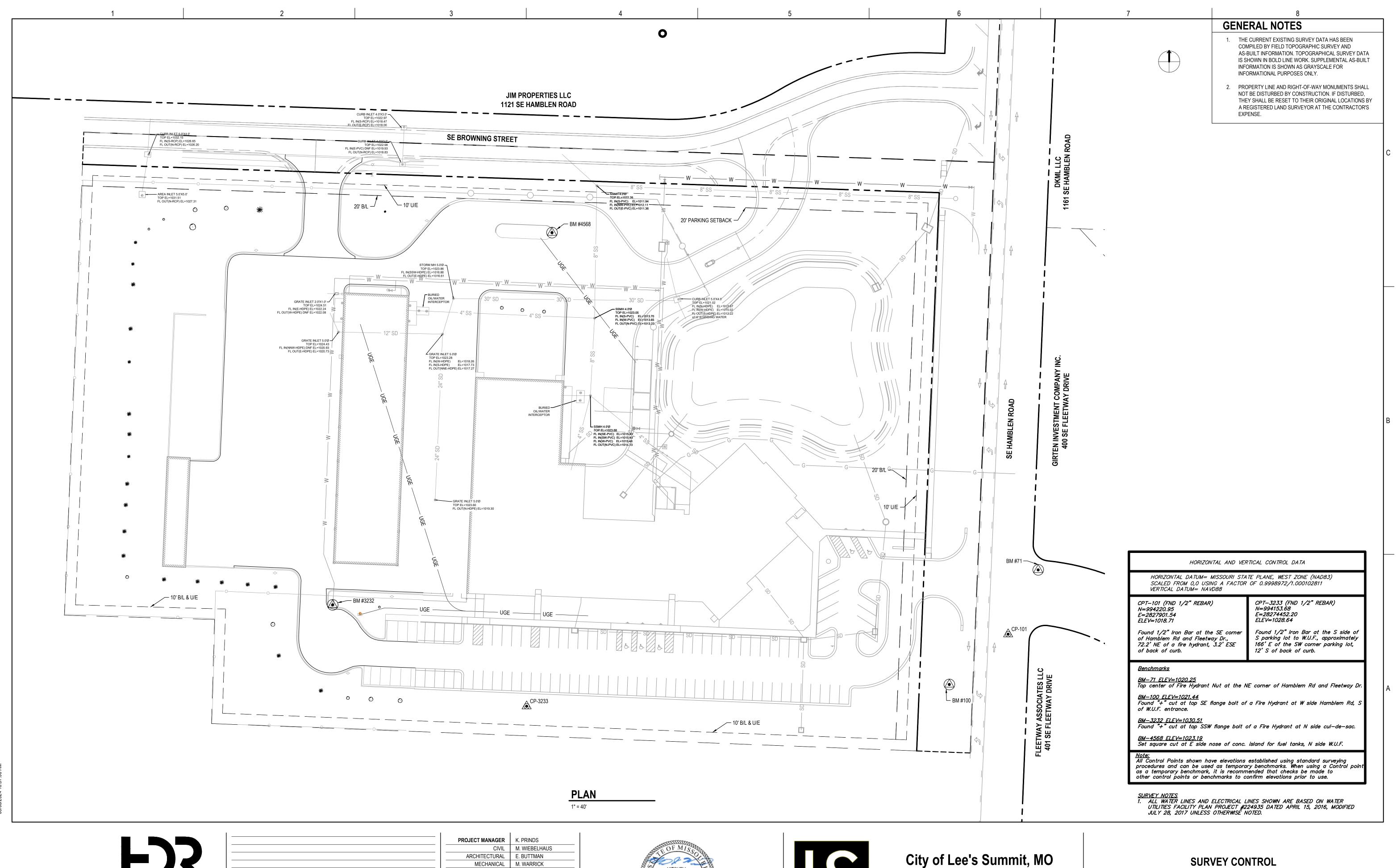
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AF AF AF AF AF AF AF AF AF AF AF AF AF A	AD ACCESS DOOR R ABOVE FINISHED ROOF JU AIR HANDLING UNIT 20 AIR PRESSURE DROP 37 ABOVE RAISED FLOOR 38 BUILDING AUTOMATION SYSTEM 39 BACK DRAFT DAMPER 39 BRAKE HORSE POWER 30 BACK DRAFT DAMPER 30 BACK DRAFT DAMPER 30 BACK DRAFT DAMPER 30 BOTTOM OF EQUIPMENT 31 BRITISH THERMAL UNITS PER HOUR 32 CONSTANT AIR VOLUME 33 CONSTANT AIR VOLUME 34 CUBIC FEET PER HOUR 35 CONFRACTING OFFICER'S REPRESENTATIVE 36 CONTRACTING OFFICER'S REPRESENTATIVE 37 CONDENSING UNIT 38 DRY BULB 30 DIRECT DIGITAL CONTROL 39 DRY BULB 30 DIRECT EXPANSION 31 ENTERING AIR TEMPERATURE 34 ELECTRIC DUCT HEATER 35 ENERGY MANAGEMENT CONTROL SYSTEM 30 ENERGY RECOVERY UNIT 39 EXTERNAL STATIC PRESSURE 35 EMERGENCY SHUTOFF SWITCH	 I/O INPUT/OUTPUT I/P CURRENT TO PNEUMATIC IAQ INDOOR AIR QUALITY IPLV INTEGRATED PART LOAD VALUE LAT LEAVING AIR TEMPERATURE LVR LOUVER LWT LEAVING WATER TEMPERATURE MAU MAKE-UP AIR UNIT MBH THOUSAND BTUH MCC MOTOR CONTROL CENTER NC NOISE CRITERIA NO NUMBER NRC NOISE REDUCTION COEFFICIENT OS&Y OUTSIDE SCREW AND YOKE PD PRESSURE DROP PPH POUNDS PER HOUR RH RELATIVE HUMIDITY RTU ROOFTOP UNIT S SIGNAL PORT SCFM STANDARD CUBIC FEET PER MINUTE SEER SEASONAL ENERGY EFFICIENCY RATIO SP STATIC PRESSURE TC TECHNOLOGY CONTRACTOR TCP TEMPERATURE CONTROL PANEL TD TEMPERATURE DIFFERENTIAL TES THERMAL ENERGY STORAGE TSP TOTAL STATIC PRESSURE UH UNIT HEATER V&C VALVE AND CAP 	
FC FC	VT ENTERING WATER TEMPERATURE F FUTURE FA FREE AREA CP FAN CONTROL PANEL CU FAN COIL UNIT SK FEEDBACK	VAC VALVE AND CAP VAV VARIABLE AIR VOLUME VRF VARIABLE REFRIGERANT FLOW VTR VENT THROUGH ROOF WB WET BULB WC WATER COLUMN WPD WATER PRESSURE DROP	
FI FF FP OR OR GF	A FULL LOAD AMPS T FILTER B FAN POWERED BOX M FEET PER MINUTE G GENERAL CONTRACTOR G GRAVITY EXHAUST GI GRAVITY INTAKE H GALLONS PER HOUR M GALLONS PER MINUTE		
TOR			
TION FOR ADDITIONAL	GENERAL HVAC NOTES 1. DUCTWORK DIMENSIONS: FIRST NUMBER I	NDICATES SIDE OF DUCTWORK SHOWN. ALL DIMENSIONS ARE	_
BREVIATIONS SHEET. LISTING VIATIONS HAVE BEEN USED ON S. ABLE SYSTEMS AS INDICATED	CHROME-PLATED ESCUTCHEON PLATES. 3. COORDINATE ALL GRILLE, REGISTER AND E LIGHTING, AND ALL OTHER CEILING MOUNT	PBOARD CEILINGS SHALL HAVE EXTENSION RODS AND	
GUIDELINES. WIDE CLARITY IF THERE ARE I. PING WITH OTHER TRADES	RUN-OUTS TO DIFFUSERS AND GRILLES. 6. PROVIDE DUCT ACCESS DOORS AT OUTSID	OR OTHER MEANS OF AIRFLOW ADJUSTMENT AT ALL DUCT	_
T, DUCTWORK, OR PIPING ABOVE BOARDS, PANELS, ETC.). ENT TO REMAIN. BOLD LINE T.	 ALL DUCT RON-OUTS TO DIFFUSERS AND G NECK SIZE UNLESS NOTED OTHERWISE. 8. ALL PIPING RUNOUTS SHALL BE 3/4" UNLES GENERAL PLUMBING NOTES 		
LUMBING VENTS, FLUES AND ES OR OTHER CONCEALED VALVES, DRAIN FITTINGS, ETC.	SLOPED AT 1/8" PER FOOT. 2. WALL HYDRANTS SHALL BE INSTALLED BET	' SHALL BE SLOPED AT 1/4" PER FOOT, 3" AND LARGER SHALL BE WEEN 18" MIN AND 24" MAX ABOVE FINISH GRADE. COORDINATE XTERIOR GRADE. PROVIDE ACCESSIBLE INSIDE SHUTOFF VALVE	
OORS. PROVIDE AN ACCESS CATION OF ACCESS PANELS OR FION.	NOTED OTHERWISE. COORDINATE EXACT I	ANITARY AND STORM RISERS AT 30" ABOVE FINISH FLOOR UNLESS HEIGHT WITH OTHER TRADES TO ENSURE ACCESSIBILITY. SIBLE AND SLOPE AT 1/8" PER FOOT UNLESS NOTED OTHERWISE.	
EEL SHALL BE COORDINATED IST GIRDERS SHALL BE AT GS. WELDING TO STRUCTURAL	OVERFLOW DOWN SPOUT NOZZLES SHALL NOTED OTHERWISE. 5. PROVIDE BACKFLOW PREVENTERS IN ACCO	DRDANCE WITH THE LOCAL CODES. PROVIDE AIR GAP FITTINGS ROUTE DISCHARGE PIPING TO NEAREST FLOOR DRAIN OR FLOOR	
INSTALLATION AND AS SHOWN DTED) SHALL BE PROVIDED BY	SINK OR AS SHOWN ON DRAWINGS.	/ENT PIPING, SHUTOFF VALVES, DIRT LEGS, AND UNIONS ON ALL	

- R INSTALLATION AND AS SHOWN OTED) SHALL BE PROVIDED BY
- SUCH AS COPPER TO
- ISOLATION VALVES ON EACH RES AND ELSEWHERE AS

MECHANICAL LEGEND

PROVIDE GAS REGULATORS, REGULATOR VENT PIPING, SHUTOFF VALVES, DIRT LEGS, AND UNIONS ON ALL GAS FIRED EQUIPMENT. REGULATE GAS PRESSURE AS REQUIRED FOR EACH SPECIFIC PIECE OF GAS FIRED EQUIPMENT.

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HDR ENGINEERING, INC. | CA0443AE 10450 HOLMES ROAD, SUITE 600 KANSAS CITY, MO 64131 (816) 360-2600 MO CERTIFICATE OF AUTHORITY #: 000856

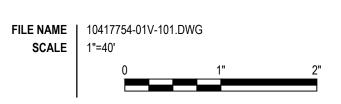
			PROJECT MANAGE
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1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED	
0	03/07/2025	FINAL DEVELOPMENT PLAN	
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NUMBER 10417754

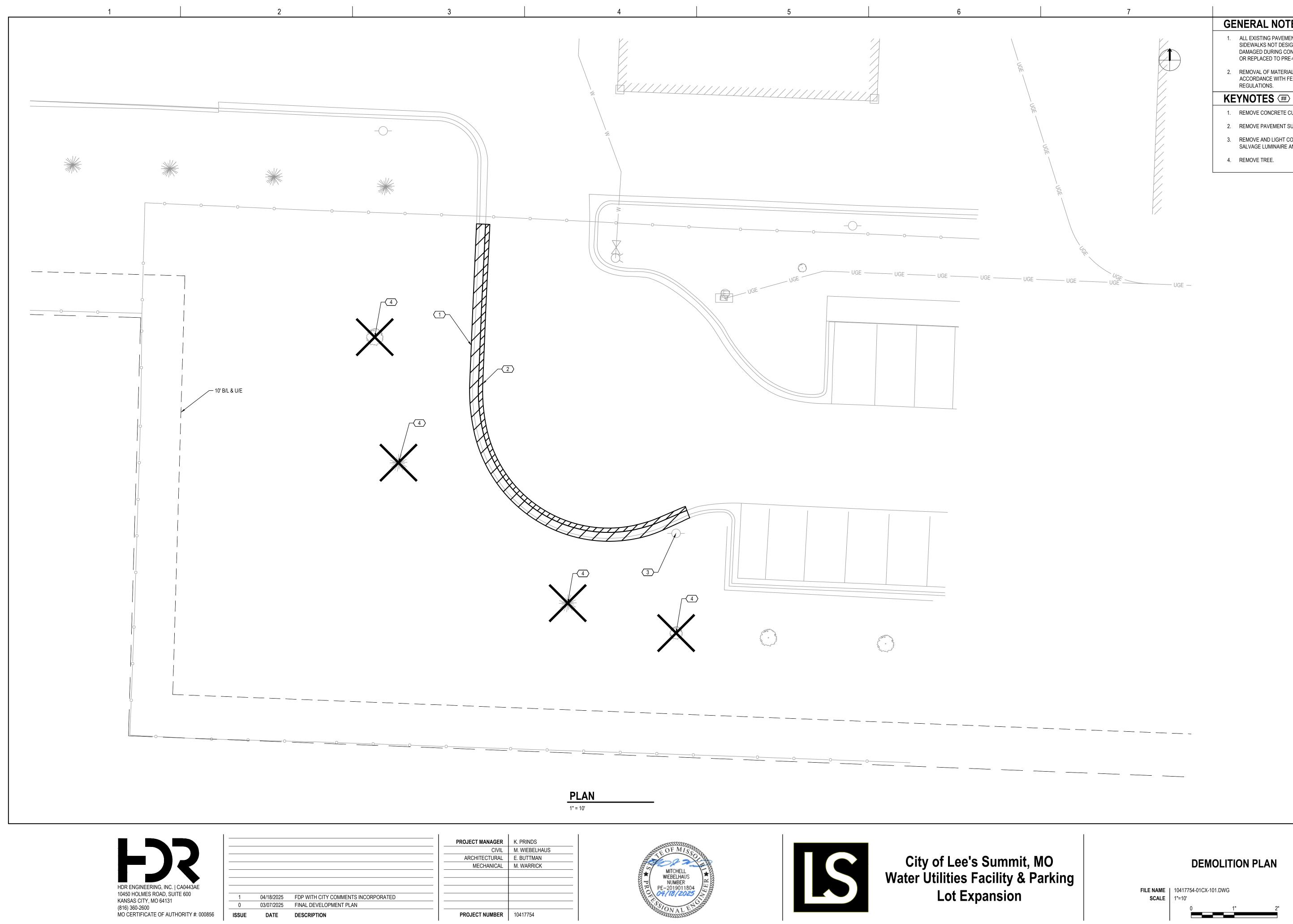




City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion



| SHEET # 01V101



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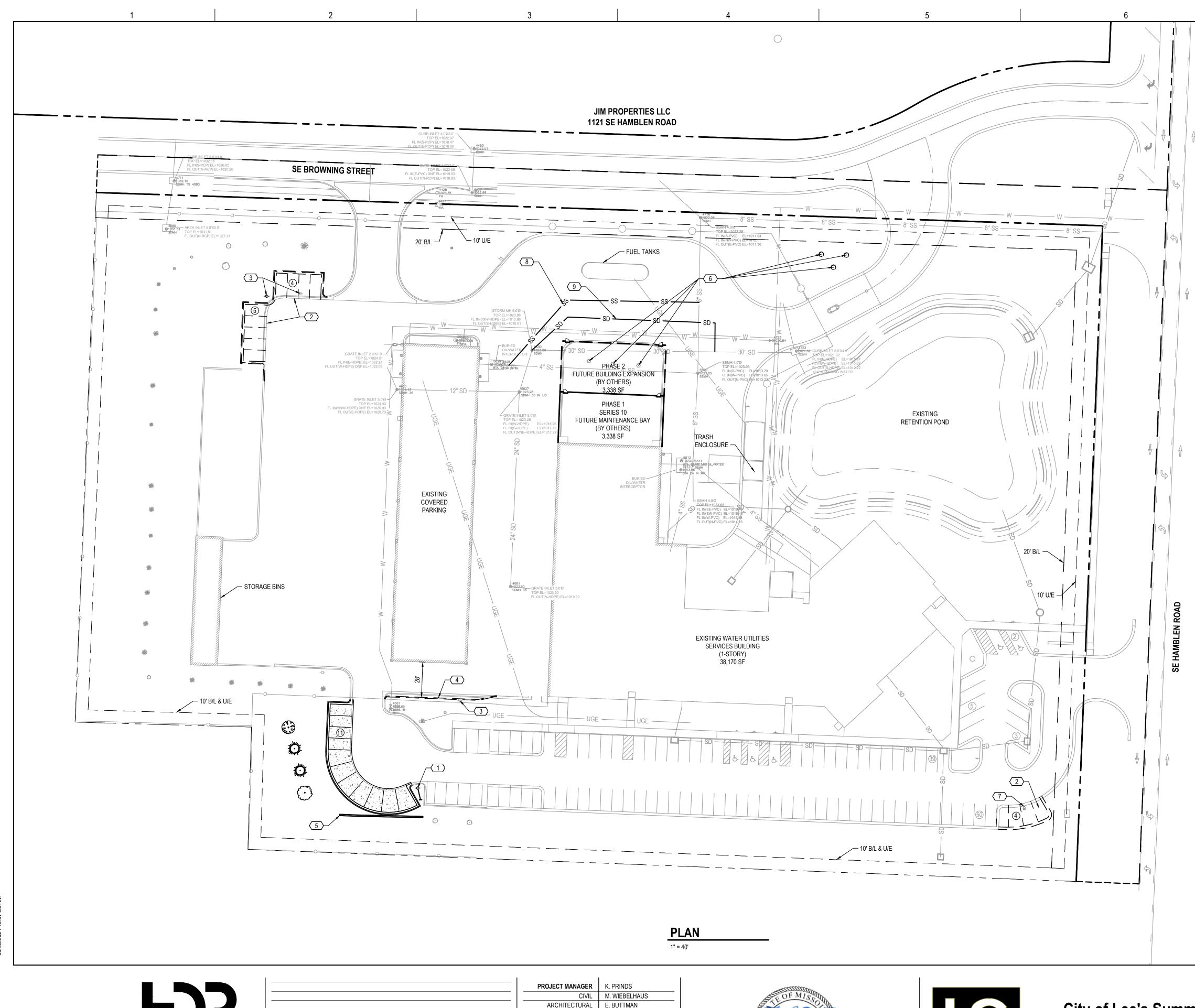
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0	03/07/2025	FINAL DEVELOPMENT PLAN	
1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED	
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GENERAL NOTES

- 1. ALL EXISTING PAVEMENT, ROAD BASE, CURB, AND SIDEWALKS NOT DESIGNATED TO BE REMOVED THAT ARE DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED TO PRE-CONSTRUCTION CONDITION.
- 2. REMOVAL OF MATERIALS FROM THE SITE SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL

- 1. REMOVE CONCRETE CURB AND GUTTER.
- 2. REMOVE PAVEMENT SURFACE.
- 3. REMOVE AND LIGHT CONCRETE FOUNDATION AND SALVAGE LUMINAIRE AND POLE.

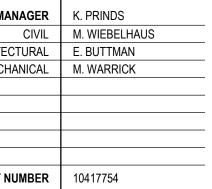
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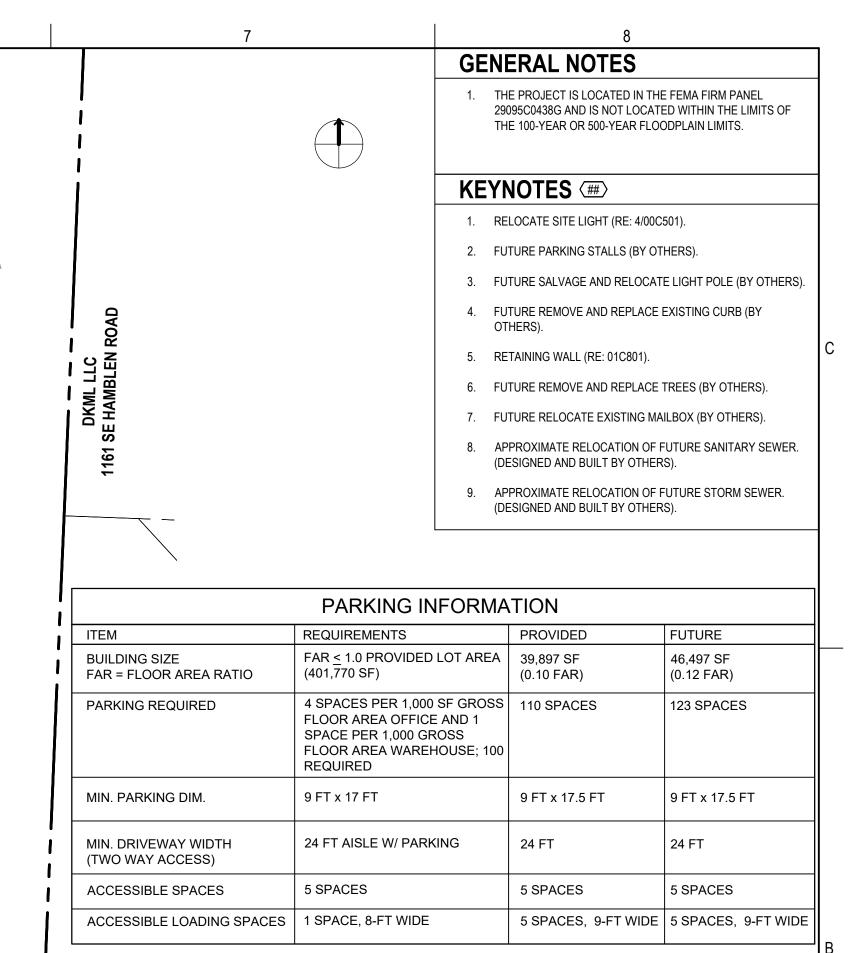
ISSUE	DATE	DESCRIPTION	PRO
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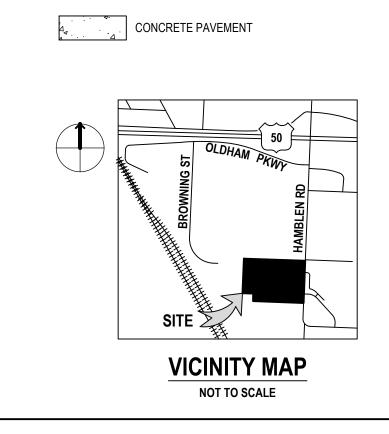
City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion





AREA REQUIREMENTS			
LOCATION: SE HAMBLEN ROAD LEE'S SUMMIT, JACKSON COUNTY, MISSOURI			DURI
ZONE:	PI - PLANNED INDUS	TRIAL ZONING	
USE:	INDUSTRIAL		
LEGAL:	WATER UTILITIES FA	CILITY LOT LOT 1	
ITEM		REQUIREMENTS	PROVIDED
	DT AREA	NONE	401,770 SF (9.22 AC)
MINIMUM LC	DT FRONTAGE	NONE	521.60 FT
MINIMUM FRONT SETBACK		20 FT	>20 FT
MINIMUM SIDE SETBACK		10 FT	>10 FT
MINIMUM REAR SETBACK		20 FT	>20 FT
MAXIMUM BUILDING HEIGHT		NONE	23 FT
MAXIMUM IMPERVIOUS COVERAGE		80% (321,481 SF)	64% (258,516 SF)

LEGEND



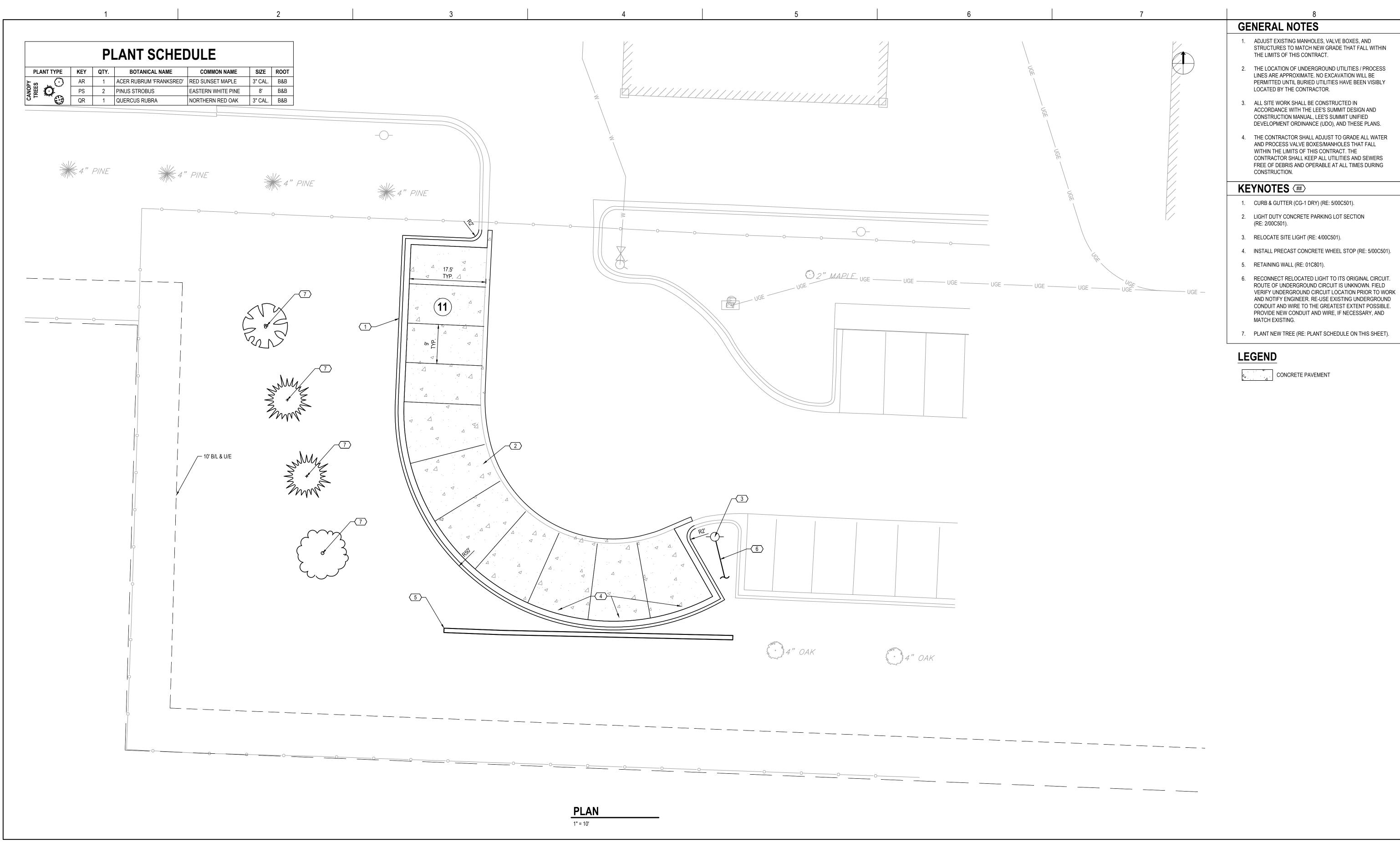
SSOCIATES LL ETWAY DRIVE

FLEETWAY AS 401 SE FLEET

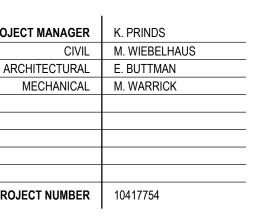
OVERALL SITE PLAN



| SHEET # 01C101



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IDR ENGINEERING, INC. CA0443AE				
0450 HOLMES ROAD, SUITE 600 ANSAS CITY, MO 64131	1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED	
816) 360-2600	0	03/07/2025	FINAL DEVELOPMENT PLAN	
MO CERTIFICATE OF AUTHORITY #: 000856	ISSUE	DATE	DESCRIPTION	



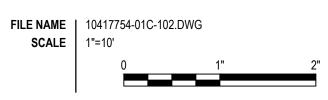




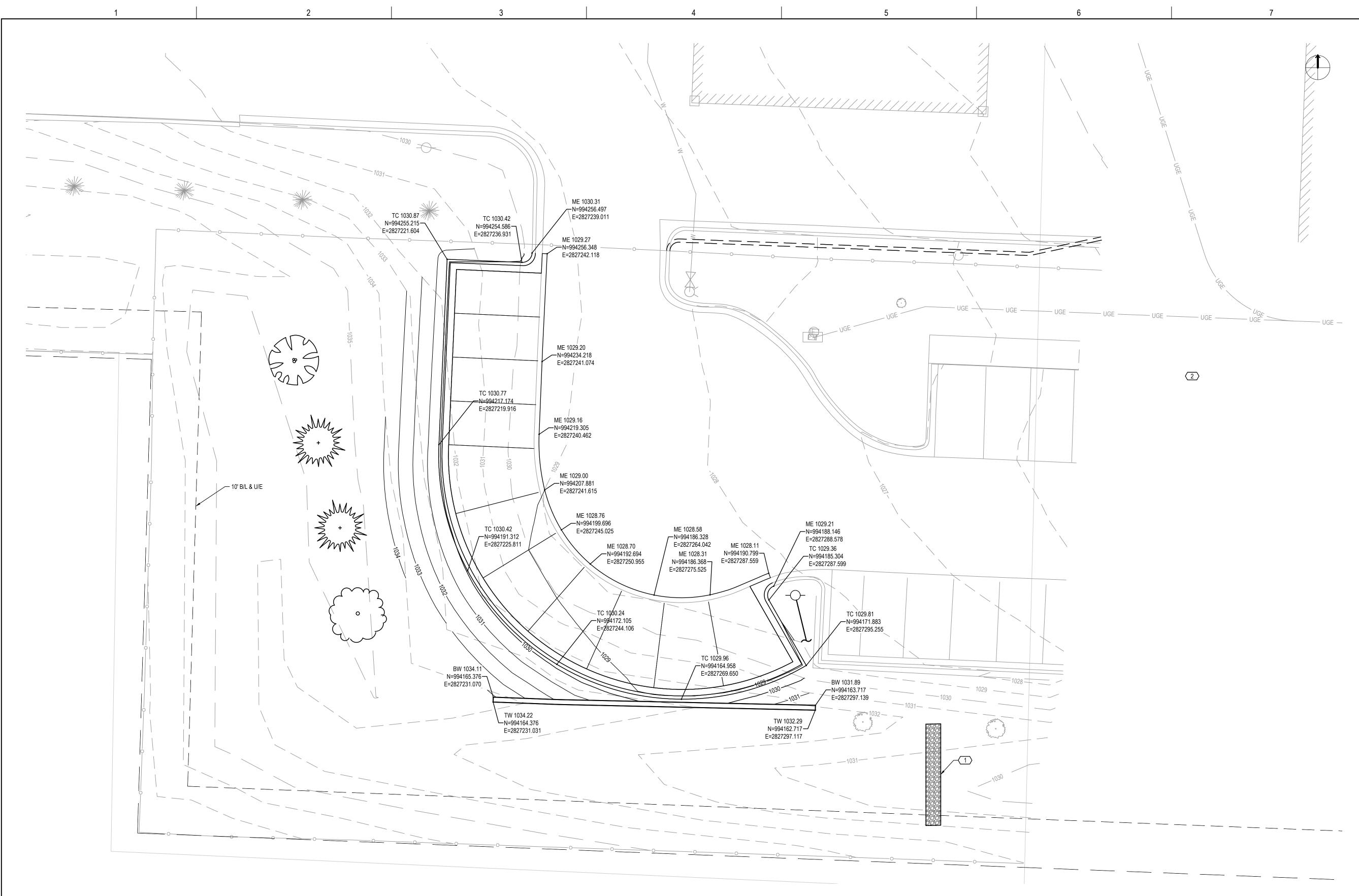
City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion

7. PLANT NEW TREE (RE: PLANT SCHEDULE ON THIS SHEET).

ENLARGED SITE PLAN



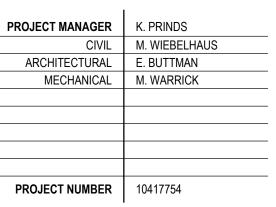
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HDR ENGINEERING, INC. CA0443AE				
10450 HOLMES ROAD, SUITE 600	1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED	_
KANSAS CITY, MO 64131 (816) 360-2600	0	03/07/2025	FINAL DEVELOPMENT PLAN	_
MO CERTIFICATE OF AUTHORITY #: 000856	ISSUE	DATE	DESCRIPTION	_

PLAN 1" = 10'







City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion

GENERAL NOTES

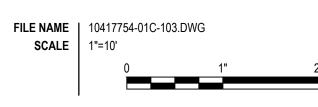
- 1. GRADING ACTIVITIES SHALL CONFIRM TO THE REQUIREMENTS OF LEE'S SUMMIT SECTION 2100 -GRADING AND SITE PREPARATION AND SECTION 2150 -EROSION AND SEDIMENT CONTROL.
- 2. GRADED SLOPES SHALL NOT EXCEED 3:1.
- 3. VERIFY PARKING GRADES TO CONFIRM POSITIVE DRAINAGE IS MAINTAINED WITHOUT THE PRESENCE OF PONDING WATER.
- 4. THE FINISH GRADING AROUND BUILDINGS SHALL PROVIDE POSITIVE DRAINAGE AWAY AND AVOID PONDING WATER.
- 5. FINAL GRADING EXTENTS SHALL BE ADJUSTED AS NECESSARY TO ENSURE POSITIVE DRAINAGE.
- 6. OPEN AREAS NOT COVERED WITH OTHER MATERIALS SHALL BE SEEDED WITH NO MOW LAWN MIX, PRODUCT #50091, PRARUE NURSERY, WESTFIELD, WI TO MATCH THE EXISTING GRASS.

- 1. ROCK DITCH CHECK (RE: 2/00C502).
- 2. INLET PROTECTION ON DOWNSTREAM COMBINATION GRATE INLET (RE: 3/00C501).

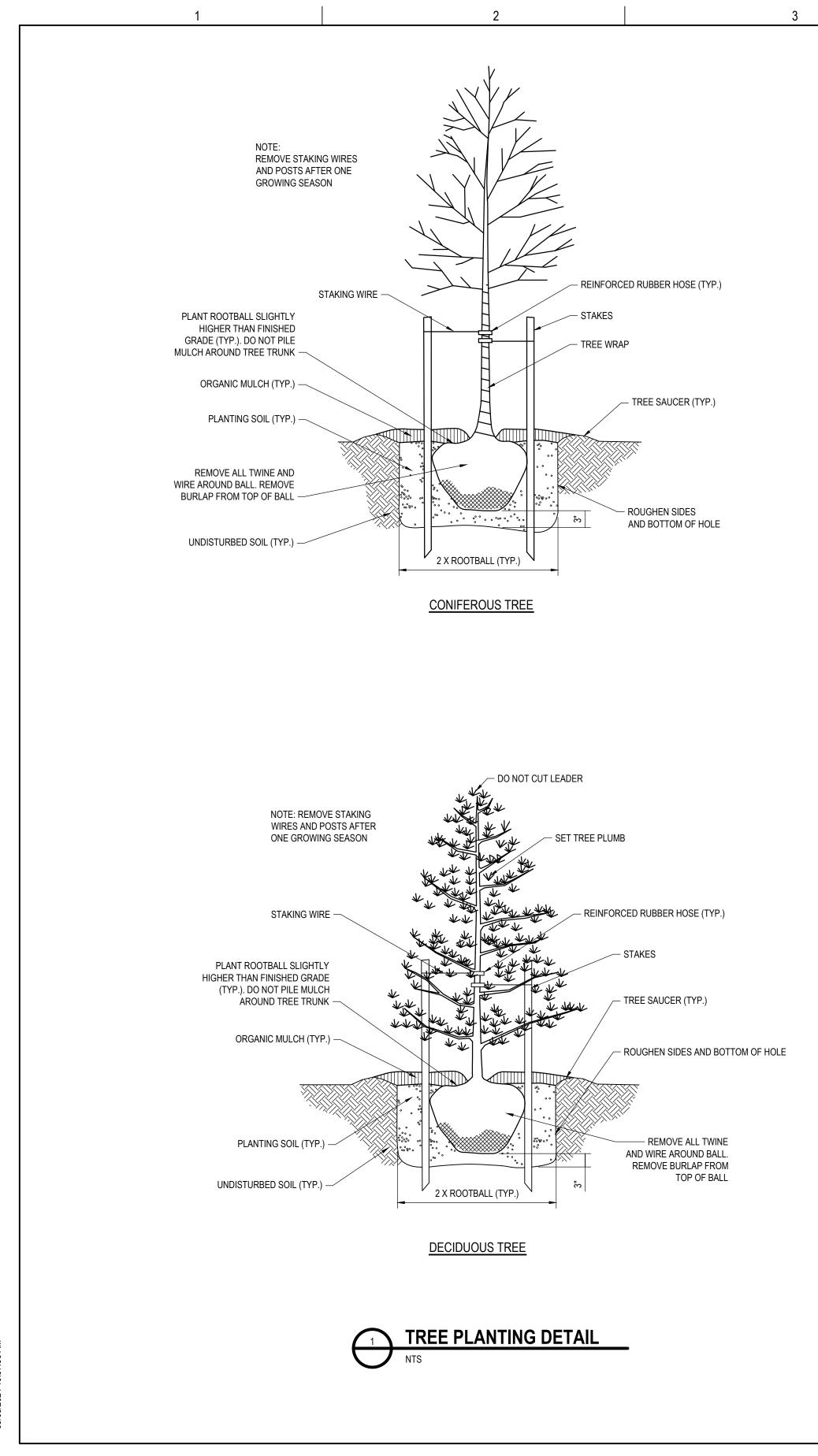
LEGEND

TC-TOP OF CURB TP-TOP OF PAVEMENT TW-TOP OF WALL **BW-BOTTOM OF WALL** ME-MATCH EXISTING

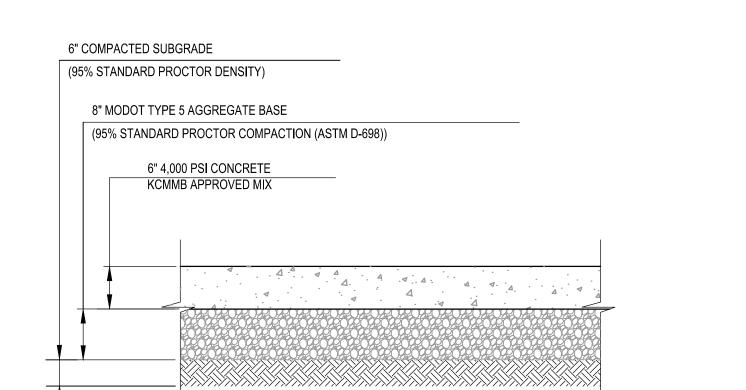
GRADING & EROSION CONTROL PLAN



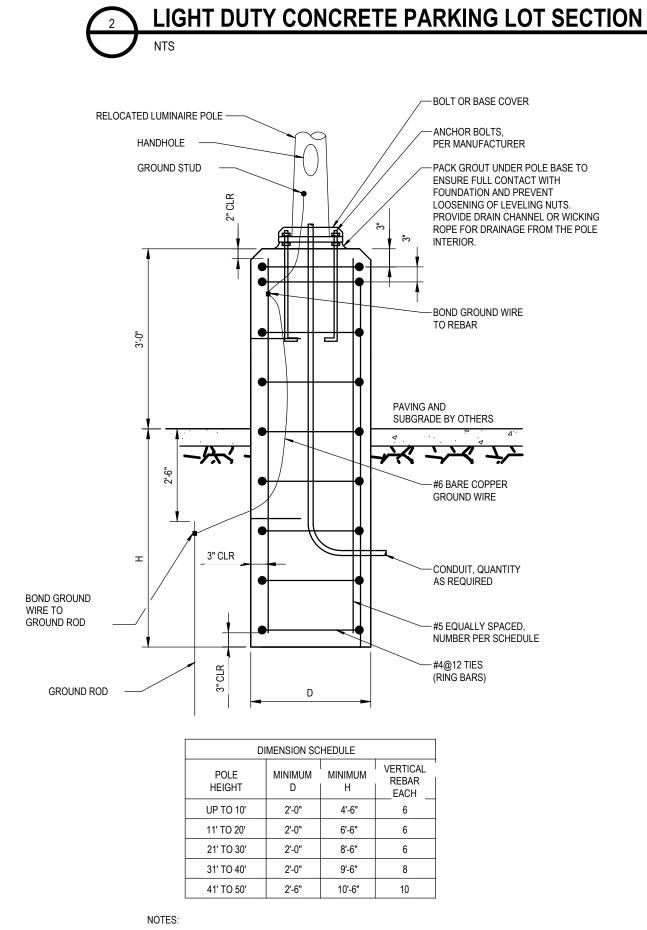




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HDR ENGINEERING, INC. CA0443AE				[
10450 HOLMES ROAD, SUITE 600	1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED	
KANSAS CITY, MO 64131 (816) 360-2600	0	03/07/2025	FINAL DEVELOPMENT PLAN	
MO CERTIFICATE OF AUTHORITY #: 000856	ISSUE	DATE	DESCRIPTION	PROJECT

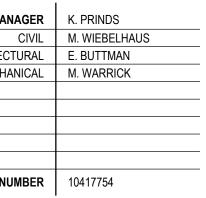


MAXIMUM CONTRACTION JOINT SPACING IS 12 FEET.



1. CONCRETE AND REINFORCING STEEL: SEE DIVISION 3.

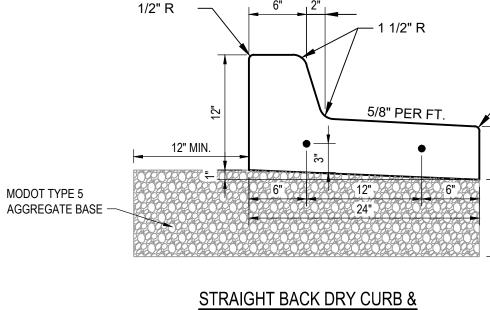








City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion



<u>GUTTER</u> (TYPE CG-1 DRY)

- 1 1/2" R

5/8" PER FT.

NOTES:

- 1. THE GUTTERBUDDY® OR APPROVED EQUAL SHALL BE A FILTER MANUFACTURED FROM RECYCLED SYNTHETIC FIBERS OR APPROVED ALTERNATIVE.
- THE GUTTERBUDDY® WILL BE MANUFACTURED TO BE 9" IN DIAMETER 2. AND SHALL HAVE A MINIMUM LENGTH OF 24" LONGER THAN THE CURB INLET OPENING. THIS WILL ALLOW FOR SUFFICIENT LENGTH TO COVER THE INLET WITH 12" BEYOND THE INLET ON BOTH ENDS.
- THE GUTTERBUDDY® SHALL BE CLEANED IF A VISUAL INSPECTION 3. SHOWS SILT AND DEBRIS BUILD UP AROUND THE GUTTERBUDDY®.
- PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY. 4. INSPECTION OF GUTTERBUDDY® SHOULD BE ON A REGULAR BASIS AND IMMEDIATELY AFTER MAJOR RAIN EVENTS.

GUTTERBUDDY INLET PROTECTION

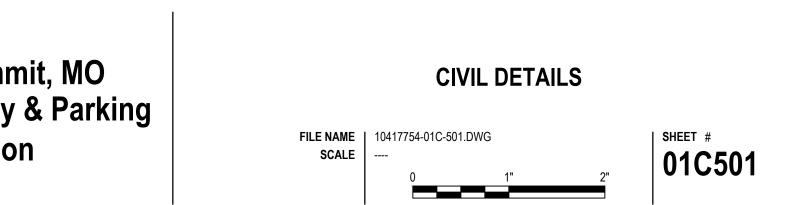
GRAVEL FILTER BAG CURB INLET SEDIMENT FILTER MAY BE USED IN LIEU OF NTS GUTTERBUDDY INLET PROTECTION.

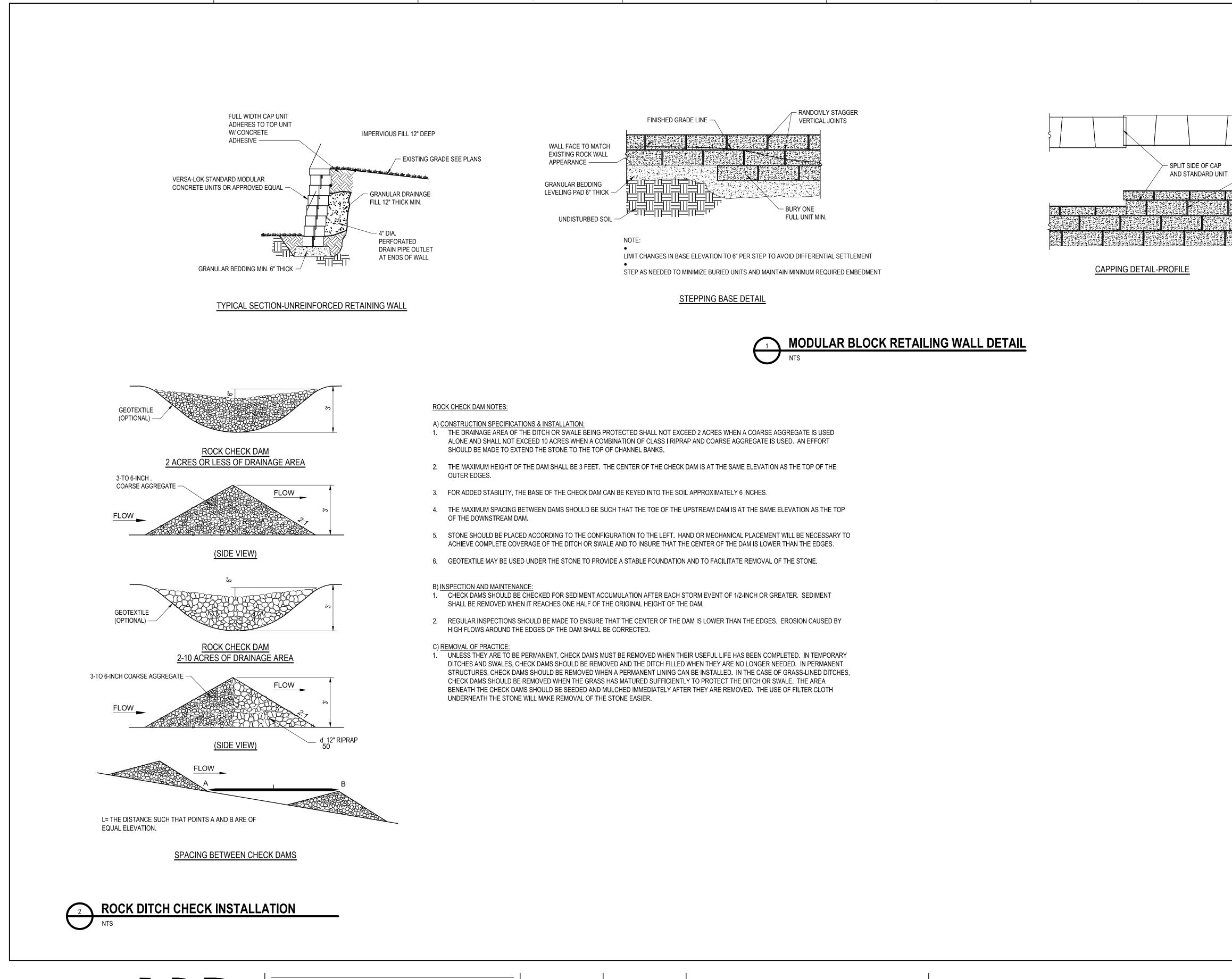
GENERAL CURB NOTES:

- 1. 3/4" ISOLATION JOINTS WITH 2 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
- 2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
- 3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH.
- 4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
- ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO 5. 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.
- 8. ALL DOWELS & TIE BARS SHALL BE EPOXY COATED.



— 1/2" R





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HDR ENGINEERING, INC. | CA0443AE 10450 HOLMES ROAD, SUITE 600 KANSAS CITY, MO 64131 (816) 360-2600 MO CERTIFICATE OF AUTHORITY #: 000856

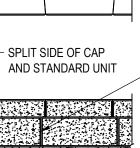
			PROJECT MANAGER	K. PRINDS
			CIVIL	M. WIEBELHAUS
			ARCHITECTURAL	E. BUTTMAN
			MECHANICAL	M. WARRICK
1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED		
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City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion

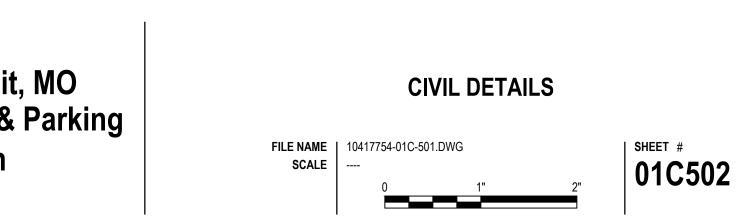


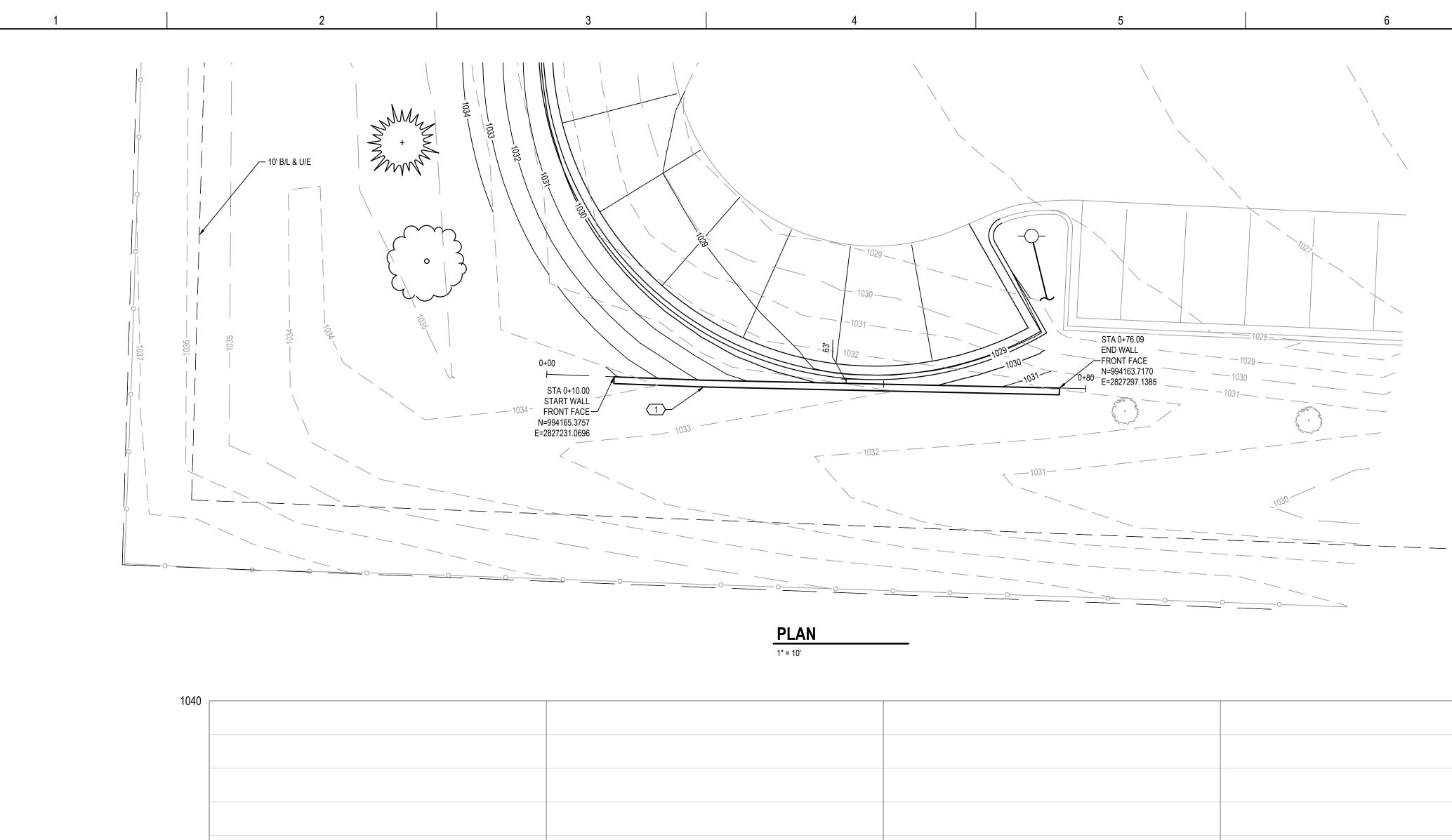


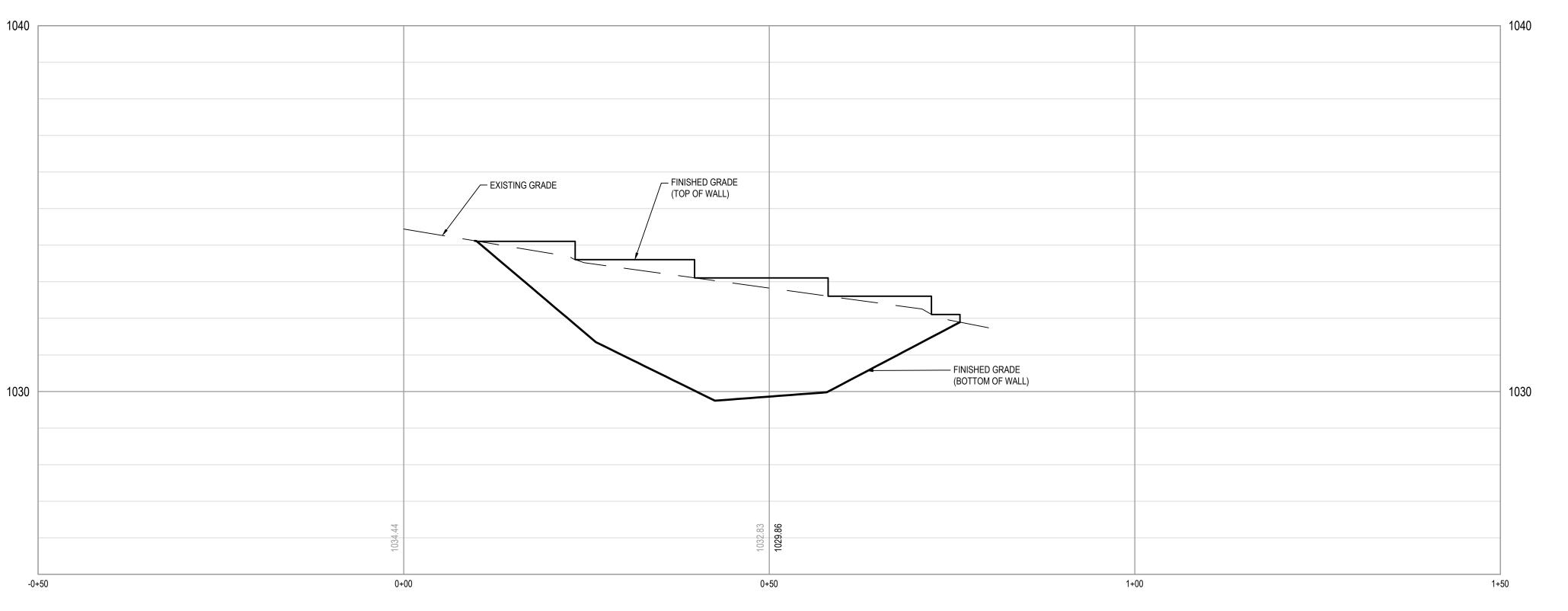
- RANDOMLY STAGGER VERTICAL JOINTS



MATERIAL/COLOR-CHARCOAL BLEND





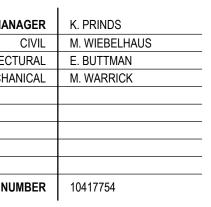


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KANSAS CITY, MO 64131 I 04/18/2025 FDP WITH CITY COMMENTS (816) 360-2600 0 03/07/2025 FINAL DEVELOPMENT PLAN	HDR ENGINEERING, INC. CA0443AE			
(816) 360-2600 0 03/07/2025 FINAL DEVELOPMENT PLAN	10450 HOLMES ROAD, SUITE 600	1	04/18/2025	FDP WITH CITY COMMENTS
		0	03/07/2025	FINAL DEVELOPMENT PLAN
	MO CERTIFICATE OF AUTHORITY #: 000856	ISSUE	DATE	DESCRIPTION

	PROJECT MANA
	ARCHITECT
	MECHAN
MMENTS INCORPORATED	
NT PLAN	
	PROJECT NUM
	-

PROFILE 1" = 10'







City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion

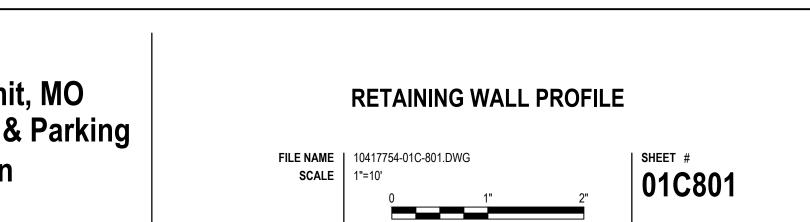
GENERAL NOTES

1. SPLIT FACE MODULAR CONCRETE BLOCK WALL.

KEYNOTES (##>

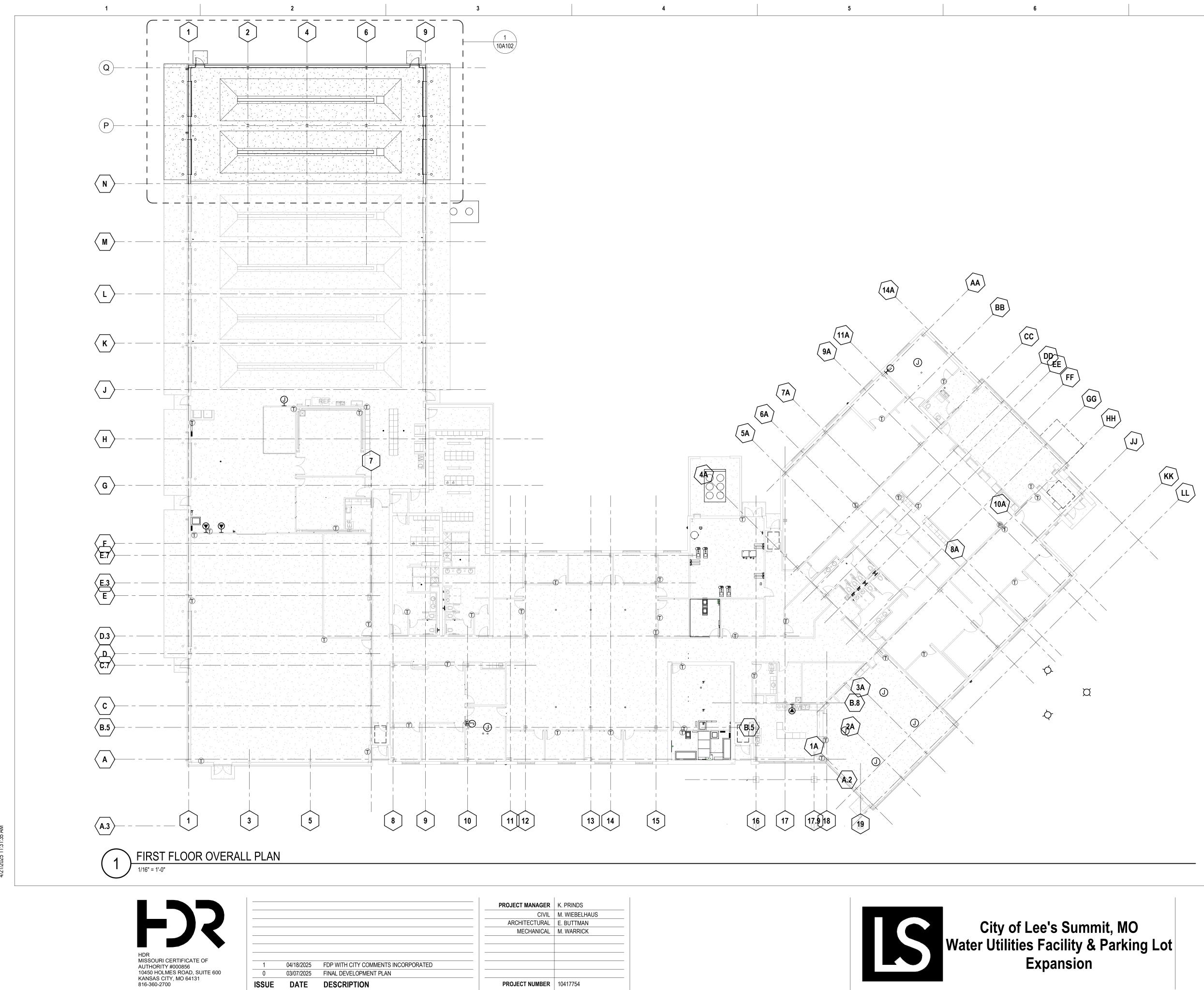
1. MODULAR BLOCK WALL. WALL WIDTH AND BATTER TO MEET MANUFACTURES RECOMMENDATIONS (RE: 1/00C502).

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MANAGER	K. PRINDS
CIVIL	M. WIEBELHAUS
FECTURAL	E. BUTTMAN
CHANICAL	M. WARRICK
NUMBER	10417754



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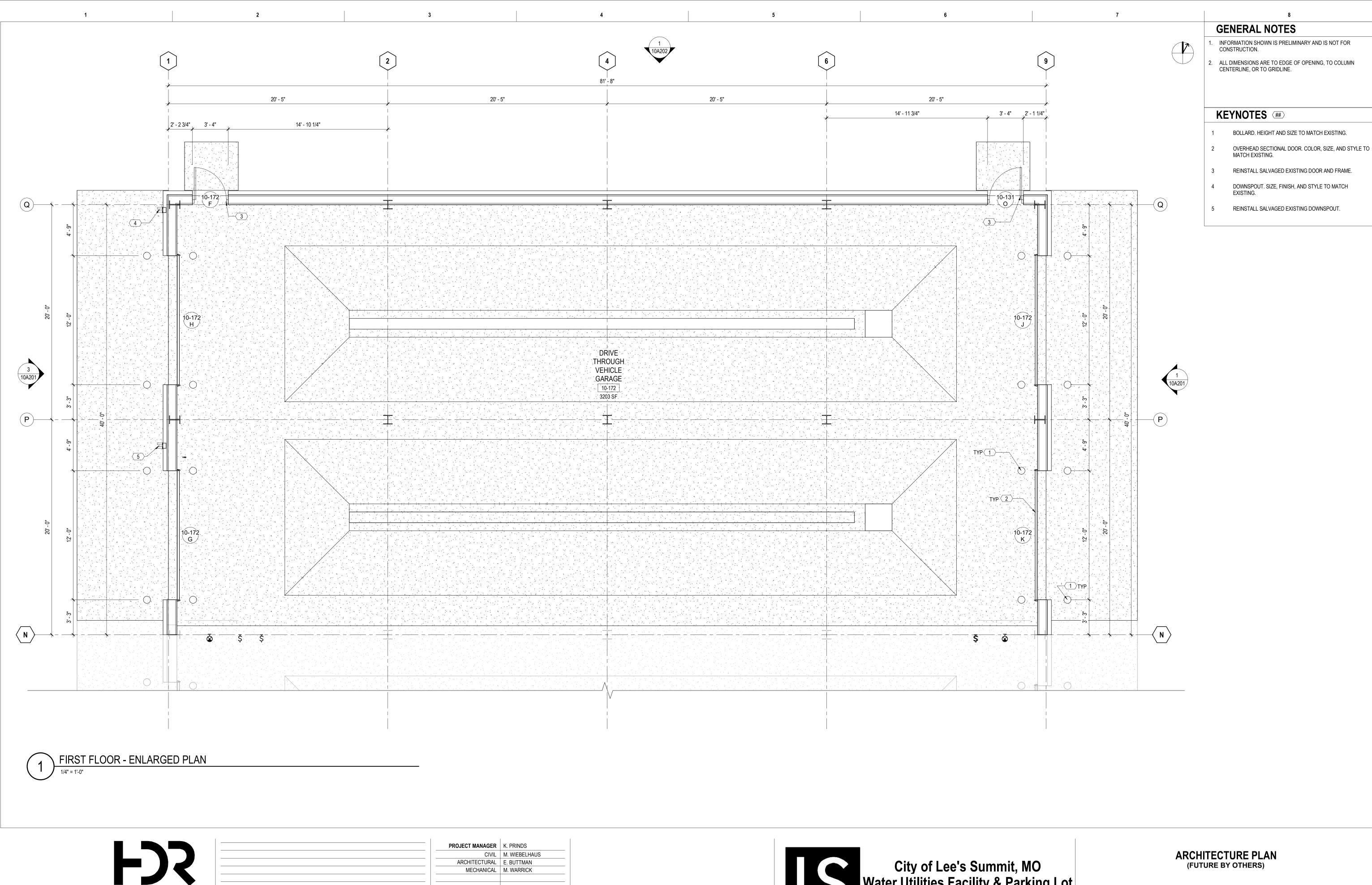
GENERAL NOTES

INFORMATION SHOWN IS PRELIMINARY AND IS NOT FOR CONSTRUCTION.

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ARCHITECTURE OVERALL PLAN (FUTURE BY OTHERS)

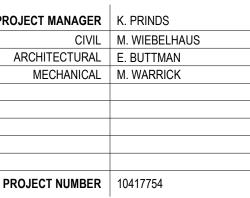
FILE NAME SCALE 1/16" = 1'-0" sheet 10A101



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HDR MISSOURI CERTIFICATE OF AUTHORITY #000856 10450 HOLMES ROAD, SUITE 600 KANSAS CITY, MO 64131 816-360-2700

			I
ISSUE	DATE	DESCRIPTION	P
0	03/07/2025	FINAL DEVELOPMENT PLAN	
1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED	

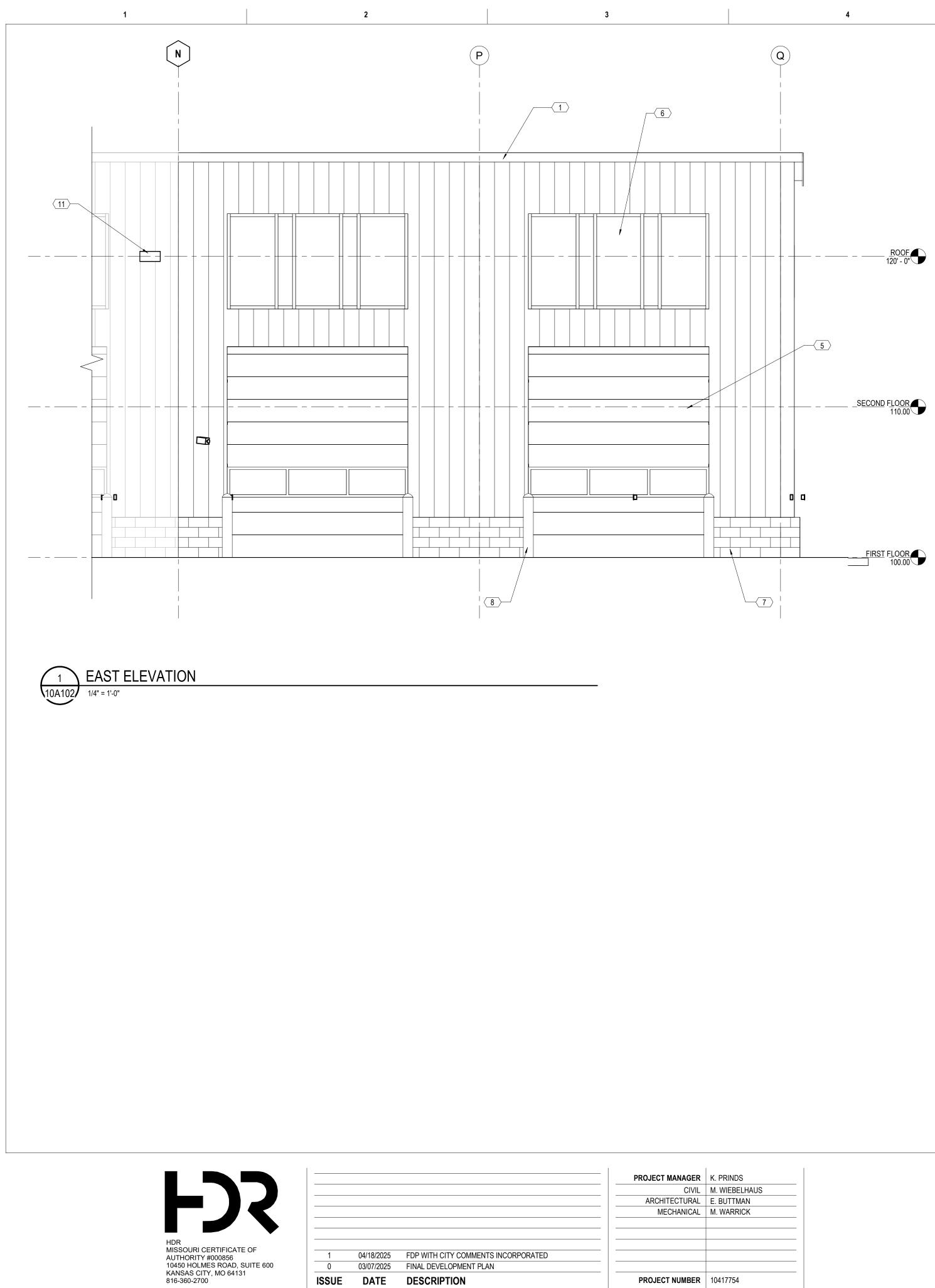




City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion



SHEET 10A102



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ISSUE DATE DESCRIPTION

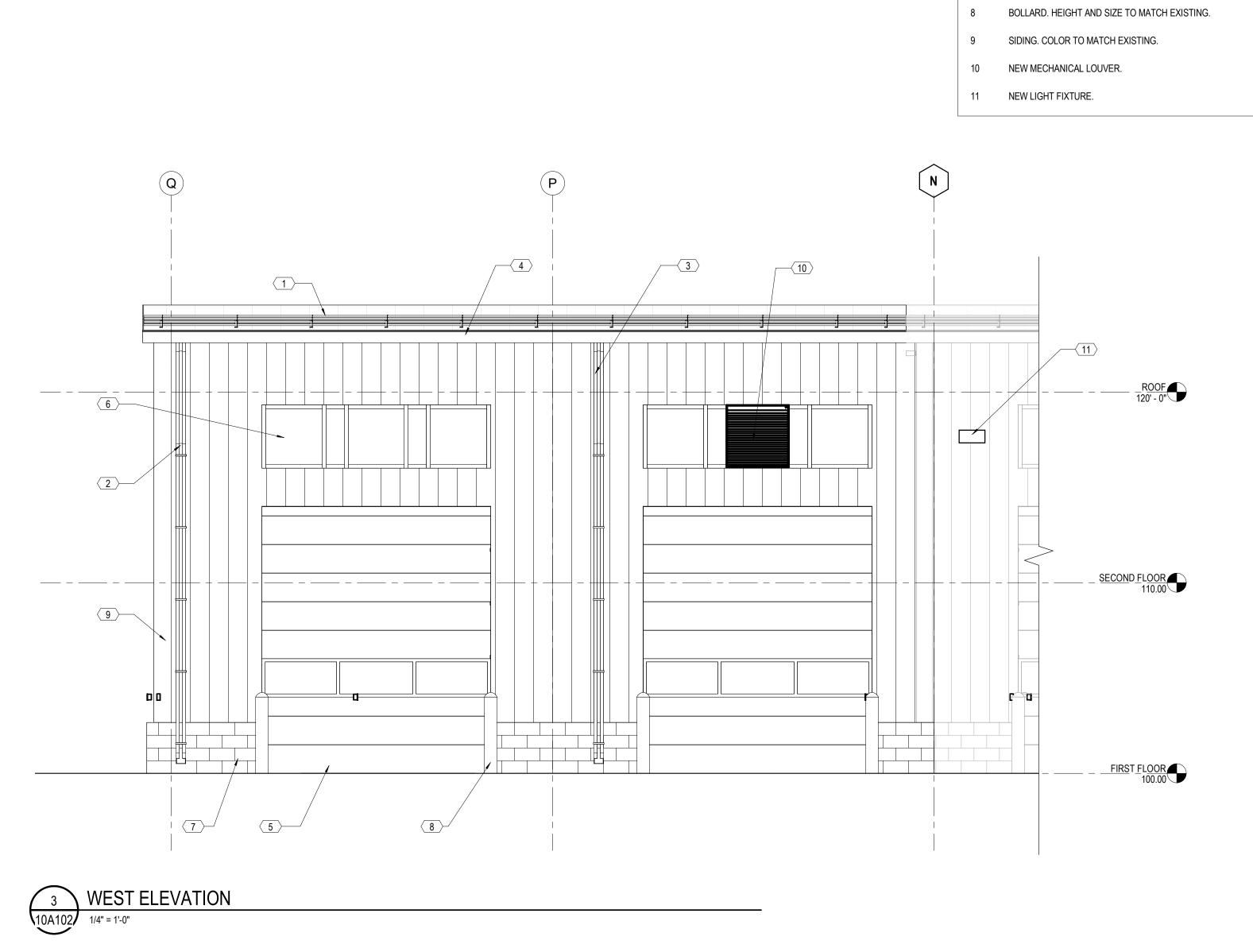
PROJECT NUMBER | 10417754



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City of Lee's Summit, MO Water Utilities Facility & Parking Lot Expansion

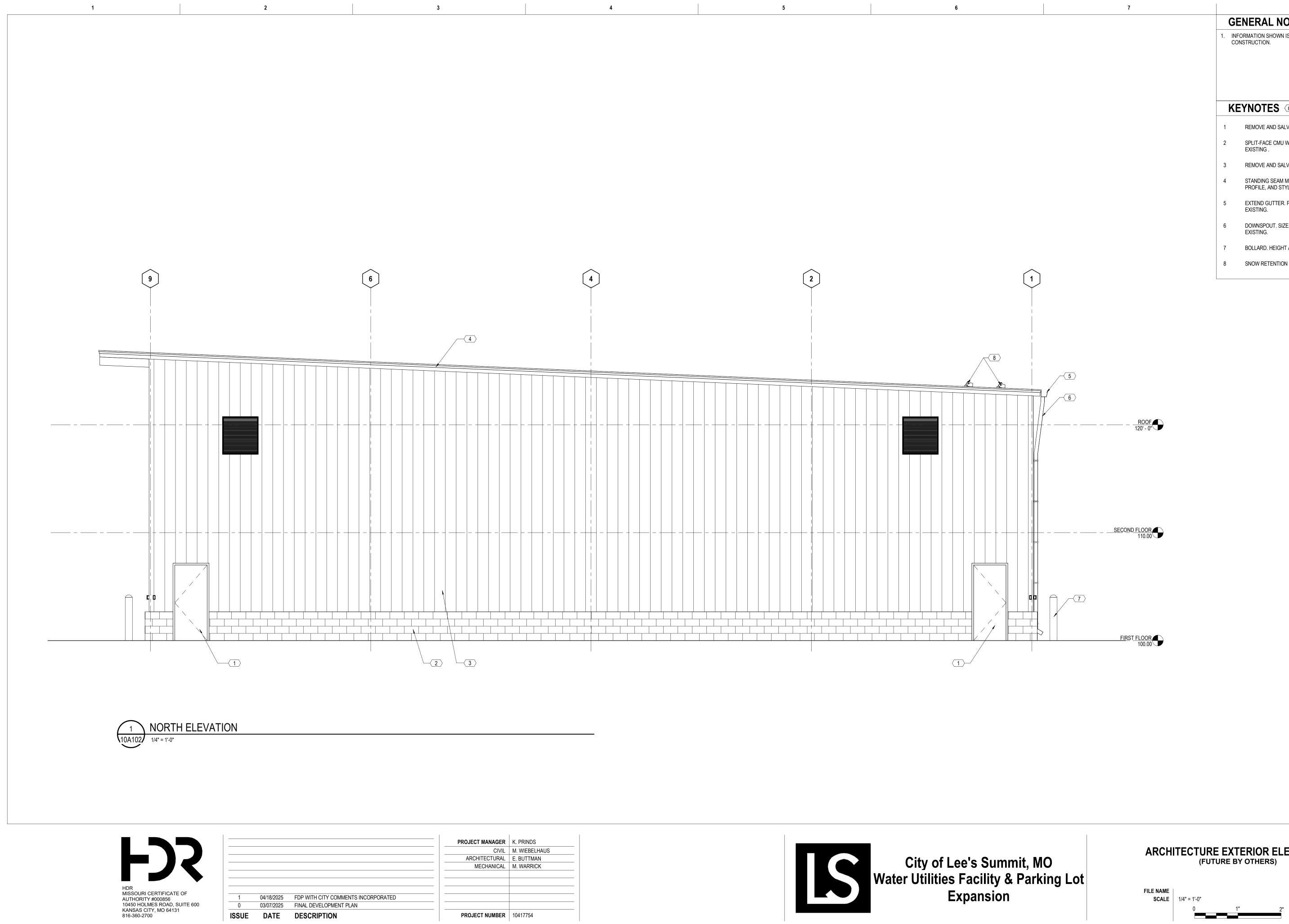


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	GENERAL NOTES 1. INFORMATION SHOWN IS PRELIMINARY AND IS NOT FOR CONSTRUCTION.
	KEYNOTES ## 1 STANDING SEAM METAL ROOF AND FASCIA. COLOR, PROFILE, AND STYLE TO MATCH EXISTING.
	 2 DOWNSPOUT. SIZE, FINISH, AND STYLE TO MATCH EXISTING. 3 REINSTALL SALVAGED EXISTING DOWNSPOUT.
	 EXTEND GUTTER. PROFILE AND COLOR TO MATCH EXISTING. OVERHEAD SECTIONAL DOOR. COLOR, SIZE, AND STYLE TO MATCH EXISTING.
	 6 TRANSOM WINDOW. FRAME AND SIZE TO MATCH EXISTING. 7 SPLIT-FACE CMU WAINSCOT. COLOR AND TYPE TO MATCH EXISTING .
	 8 BOLLARD. HEIGHT AND SIZE TO MATCH EXISTING. 9 SIDING. COLOR TO MATCH EXISTING. 10 NEW MECHANICAL LOUVER.
	11 NEW LIGHT FIXTURE.
N	

ARCHITECTURE EXTERIOR ELEVATIONS (FUTURE BY OTHERS)







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MANAGER	K. PRINDS
CIVIL	M. WIEBELHAUS
TECTURAL	E. BUTTMAN
CHANICAL	M. WARRICK
T NUMBER	10417754

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GENERAL NOTES	
	IFORMATION SHOWN IS PRELIMINARY AND IS NOT FOR ONSTRUCTION.
K	EYNOTES (##)
1	REMOVE AND SALVAGE EXISTING DOOR AND FRAME.
2	SPLIT-FACE CMU WAINSCOT. COLOR AND TYPE TO MATCH EXISTING .
3	REMOVE AND SALVAGE EXISTING SIDING AND WALL GIRTS.
4	STANDING SEAM METAL ROOF AND FASCIA. COLOR, PROFILE, AND STYLE TO MATCH EXISTING.
5	EXTEND GUTTER. PROFILE AND COLOR TO MATCH EXISTING.
6	DOWNSPOUT. SIZE, FINISH, AND STYLE TO MATCH EXISTING.
7	BOLLARD. HEIGHT AND SIZE TO MATCH EXISTING.
8	SNOW RETENTION SYSTEM TO MATCH EXISTING.

ARCHITECTURE EXTERIOR ELEVATIONS (FUTURE BY OTHERS)

SHEET 10A202