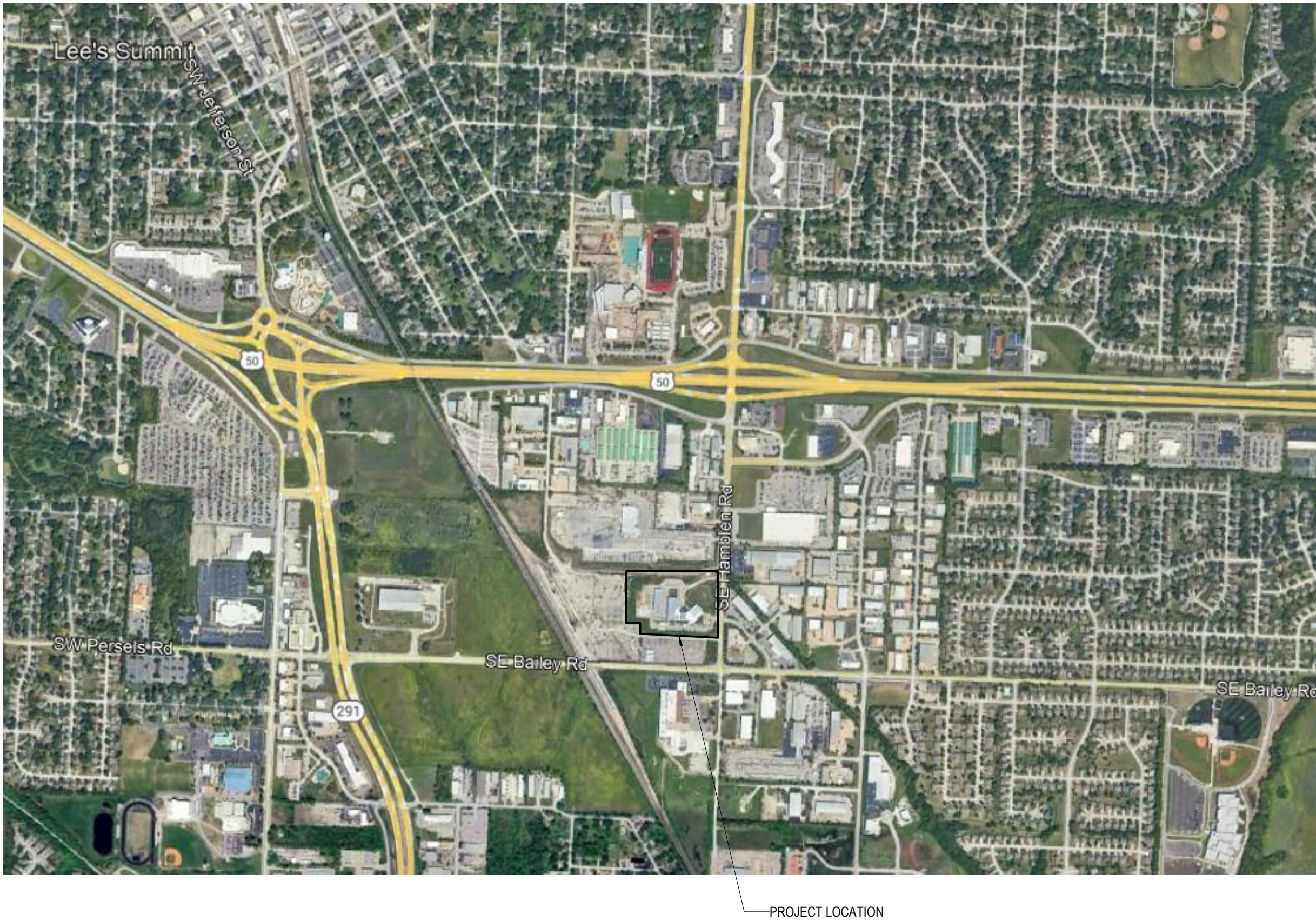


RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Development Services Department
Lee's Summit, Missouri

04/28/2025



Contract Drawings For

City of Lee's Summit, MO

Water Utilities Facility & Parking Lot Expansion Final Development Plan

PRCOM20251719

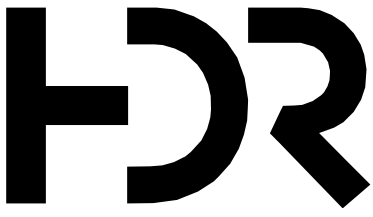
Project No. 10417754
1200 SE Hamblen Rd, Lee's Summit, MO 64081

Date: 04/18/2025

- CITY GENERAL NOTES:**
- ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 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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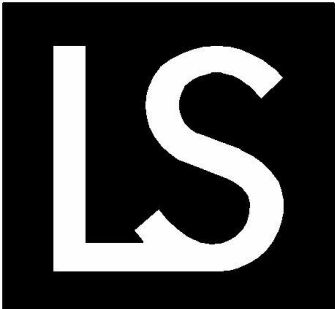
1	2	3	4	5	6	7	8
A/C A/E A AB ABAN ABC ABT AC ACK ACP ACST AD ADDL ADH ADJ AF AFF AFG AGGR AI A/C ALIG ALT ALUM AM AMB ANC AO AP APRX APVD ARCH ASSY AT ATC ATM AUX AVE AVG AWG AWT B TO B BAL BBB BC BD BE BF BITUM BKG BL BLDG BLK BLKG BM BOC BOD BOD BOL BOP BOR BOT BOU BP BRG BRGP BRKT BS BTU BTW BTWLD BU BUR BW BYP CTOC C&G C CAB CAP CAT CAV CB CCB CCW CDF CE CER CF CFL CHBD CHD CHFR CHH CI CIP CIPB CIRC CJ CKT CL CLG CLKG CLR CMH CMP CMU CO COL COM COMB COMM COMP CON	CONC CONN CONST CONT COOR COPR CP CPLG CRL CSC CSK CSS CT CTJ CTR CTRL CVT CU CW CY d D DB DBA DBL DC DEG DEG C DEG F DEMO DEP DEPT DET DI DIA DIAG DIFF DIM DISCH DIST DIV DL DMJ DMPF DN DO DP DPDT DPST DS DT DUP DWG DWL DWR E EA EC ECC ED EDB EE EF EFF EHH EIFS EJ EL ELEC EMBD EMER ENH ENCL ENGR ENTR EOP EQ EQUIV ES ESEW EST EW EWC EWEF EWTB EXC EXH EXP EXT EXT F TO F F&B FAB FB FBD FBG FBM FBO FC FCA FD FDC FDR FDTN FE FEC FES FEXT FF FG FH FIG FIN FJT FL	FV FLEX FLG FLOR FLR FLS FN FO FOB FOC FOF FOM FOS FOT FPT FR FRP FRTM FS FT FTG FUR FURN FUT FV FW FWD FWE FXTR G GA GAL GALV GB GC GD GEN GFCI GFMU GG GJ GL GLB GND GP GR GRTG GSB GT GVL GW GWB GYP H HB HBD HC HD HDR HDW HEX HGR HH HID HM HORIZ HP HPC HPS HPT HR HS HSS HT HTG HV HVAC HWD HWL HYD HZ ID IE IF IH IMP IN INC INF INSTR INSUL INT INTR INV IPS IPT IR IRR ISO JB JCT JF JST JT K KB KMIL KO KSI KIW	L LAD LAM LATL LB LCBT LDG LDR LE LF LFG LH LIN LIQ LLH LLV LMLU LNG LOC LP LPS LR LT LTD LTG LTL LTMG LV LVL LVR LW LWC LWL MA MACH MAINT MAN MATL MAX MB MBR MC MCB MCJ MDMJ MECH MED MFR MH MIN MIR MISC MJ ML MLO MMB MO MOD MON MPT MROWB MS MSL MT MU MULL MV MW N NA NAT NC NEG NF NIC NO NOM NPS NPT NS NTS NWL O TO O OA OC OCPD OD OED OF OFCI OFOI OG OH OPNG OPP OPT OR ORD ORIG OVFL OVHG OZ P PA PAR PB PBD PC PCC PCF PCT PE PED	PEN PERF PERM PERP PF PFMU PH PI PKG PL PLAS PLAT PLBG PLF PNEU POL PP PRC PREF PREFAB PRELIM PREP PRES PRI PROP PROT PS PSF PSI PSIA PSIG PREST PT PTN PVC PVMT PWD PWJ PZ Q QT QTR QTY QUAL R&R R&S RAD RA RB RCPT RD REC RECD RECT RED REF REINF REM REQD RESIL RET REV RF RFG RFL RGH RGS RGS-PVC RH RL RLFA RND RNG RO ROW RPM RR RSP RT RVT RY S SA SAMU SAN SB SC SCH SCHEM SCN SE SEC SECT SEP SF SG SH SHT SHTG SIL SIM SJ SLD SLV SMLS SOG SP SPA SPEC SPLY SPST SPT SQ SR	SS SST ST STA STD STIF STIR STL STOR STR SUB SUC SUSP SY SYM SYMM SYN SYS T&B T&G T TA TAN TBM TCE TEF TEMP THD THK TKBD TOB TOC TOD TOF TOG TOL TOM TOP TOPO TOE TOW TP TPD TPG TR TRANS TRD TYP U UG ULT UNFN UNO UTIL V VA VAC VAR VB VC VCP VCT VEL VENT VERT VERTS VG VIF VIN VOL VPC VPI VPT VS VTR VWC W/ W/O W WB WC WD WF WG WH WI WL WLD WM WP WS WSCT WT WTHP WWF XP XS XSECT XXS YH YS	SERVICE SINK STAINLESS STEEL STATION STANDARD STIFFENER STIRRUP STEEL STORAGE STRUCTURAL, STRAIGHT SUBSTITUTE SUCTION SUSPENDED SQUARE YARD SYMBOL SYMMETRICAL SYNTHETIC SYSTEM T&B TOP AND BOTTOM T&G TONGUE AND GROOVE T TILE, TREAD TA TOILET ACCESSORY, TEMPERED AIR TAN TANGENT TBM TEMPORARY BENCHMARK TCE TEMPORARY CONSTRUCTION EASEMENT TEF TROWELED EPOXY FLOORING TEMP TEMPORARY, TEMPERATURE THD THREAD THK THICK THRESH THRESHOLD TKBD TACK BOARD TOB TOP OF BOLT, TOP OF BANK, TOP OF BEAM, TOP OF BERM TOC TOP OF CURB, TOP OF CONCRETE TOD TOP OF DUCT TOF TOP OF FOOTING TOG TOP OF GRATING TOL TOLERANCE, TOP OF LEDGER TOM TOP OF MASONRY TOP TOP OF PLATE TOPO TOPOGRAPHY TOE TOP OF SLAB, TOP OF STEEL, TOE OF SLOPE TOW TOP OF WALL TP TOILET PARTITION, TELEPHONE POLE, TOE PLATE, TRAP PRIMER TPD TOILET PAPER DISPENSER TPG TOPPING, THROUGH PLATE GIRDER TR TRANSOM TRANS TRANSITION TRD TRENCH DRAIN TYP TYPICAL U URINAL UG UNDERGROUND ULT ULTIMATE UNFN UNFINISHED UNO UNLESS NOTED OTHERWISE UTIL UTILITY V VENT, VELOCITY, VOLT VA VOLT AMPERE VAC VACUUM VAR VARNISH, VARIABLE, VOLT AMPERES REACTIVE VB VAPOR BARRIER, VINYL BASE, VALVE BOX VC VERTICAL CURVE VCP VITRIFIED CLAY PIPE VCT VINYL COMPOSITION TILE, VERTICAL CENTERLINE VEL VELOCITY VENT VENTILATION VERT VERTICAL VERTS VERTICAL REINFORCING VG VERTICAL GRAIN VIF VERIFY IN FIELD VIN VINYL VOL VOLUME VPC VERTICAL POINT OF CURVATURE VPI VERTICAL POINT OF INTERSECTION VPT VERTICAL POINT OF TANGENCY VS VERSUS, VAPOR SEAL VTR VENT THROUGH ROOF VWC VINYL WALL COVERING W/ WITH W/O WITHOUT W WATT, WEST, WIDE, WINDOW, WIRE, WIDE FLANGE BEAM WB WOOD BASE WC WATER CLOSET, WATER COLUMN WD WOOD, WIDTH WF WIDE FLANGE, WASH FOUNTAIN WG WIRE GLASS, WATER GAGE WH WALL HYDRANT, WEEP HOLE WI WROUGHT IRON WL WATER LEVEL WLD WELDED WM WIRE MESH WP WEATHERPROOF WS WATERSTOP, WATER SURFACE WSCT WAINSCOT WT WEIGHT, WATER TIGHT WTHP WATERPROOF, WORKING POINT WWF WELDED WIRE FABRIC XP EXPLOSION-PROOF XS EXTRA STRONG XSECT CROSS SECTION XXS DOUBLE EXTRA STRONG YH YARD HYDRANT YS YIELD STRENGTH	GENERAL NOTES
1. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.							
2. LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.							
3. ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION, "INC" MAY MEAN INCLUDED OR INCLUDING, AND "REINF" MAY MEAN REINFORCE OR REINFORCING.							
4. SEE INSTRUMENTATION AND GENERAL LEGEND SHEETS FOR PROJECT-SPECIFIC EQUIPMENT AND PIPING SYSTEM ABBREVIATIONS.							



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816-360-2700

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

PROJECT MANAGER	K. PRINDS
CIVIL	M. WIEBELHAUS
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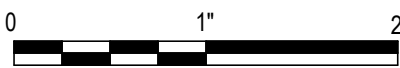


City of Lee's Summit, MO
Water Utilities Facility & Parking Lot
Expansion

ABBREVIATIONS

FILE NAME
SCALE

File Name
12" = 1'-0"



SHEET
00G002

1

2

MATERIALS IN PLAN/SECTION

FILLED REGIONS - MATERIALS

"MATERIAL" FILLED REGIONS ARE DRAFTING HATCH PATTERNS THAT REPRESENTS AN ACTUAL MATERIAL OR PRODUCT.

MATERIAL - BITUMINOUS PAVING (ASPHALT)

MATERIAL - CONCRETE - ARCHITECTURE PRECAST WALL PANEL

MATERIAL - CONCRETE - ARCHITECTURAL PRECAST WALL PANEL

MATERIAL - CONCRETE - CAST-IN-PLACE

MATERIAL - CONCRETE - GLASS FIBER REINFORCED

MATERIAL - CONCRETE - LIGHTWEIGHT

MATERIAL - CONCRETE - STRUCTURAL

MATERIAL - EFIS

MATERIAL - FILL - COURSE - CRUSHED STONE

MATERIAL - FILL - FINE - GRAVEL

MATERIAL - FILL - FINE - SAND

MATERIAL - FILL - MEDIUM - GRAVEL

MATERIAL - FILTER POINT MAT - PLAN

MATERIAL - FIREPROOFING - MINERAL WOOL

MATERIAL - FIREPROOFING - SEALANT

MATERIAL - FIREPROOFING - SPRAY-APPLIED

MATERIAL - FLOOR - CARPET - STYLE 1

MATERIAL - FLOOR - CARPET - STYLE 2

MATERIAL - FLOOR - TERRAZZO - STYLE 1

MATERIAL - FLOOR - TERRAZZO - STYLE 2

MATERIAL - GLAZING

MATERIAL - GLAZING - SPANDREL

MATERIAL GRATING - PLAN

MATERIAL GRATING - SECTION

MATERIAL - GROUT

MATERIAL - GYPSUM - PLASTER

MATERIAL - GYPSUM - WALLBOARD

MATERIAL - INSULATION - BATTING - SECTION

MATERIAL - INSULATION - RIGID FOAM

MATERIAL - MASONRY - BRICK

MATERIAL - MASONRY - CMU

MATERIAL - MASONRY - DOLMITE

MATERIAL - MASONRY - MORTAR

MATERIAL - MASONRY - STRUCTURAL CLAY TILE

MATERIAL - METAL - ALUMINUM

MATERIAL - METAL - CHECKERED PLATE - PLAN

MATERIAL - METAL - ORNAMENTAL

MATERIAL - METAL - STEEL

MATERIAL - PLASTER STUCCO

MATERIAL - PLASTIC

MATERIAL - RESILIENT TILE

MATERIAL - RIPRAP - PLAN AND/OR SECTION

MATERIAL - SEALANT - ACOUSTICAL

MATERIAL - SEALANT - FIRE SEALANT

MATERIAL - SOD - SECTION

FILLED REGIONS - MATERIALS

"MATERIAL" FILLED REGIONS ARE DRAFTING HATCH PATTERNS THAT REPRESENTS AN ACTUAL MATERIAL OR PRODUCT.

MATERIAL - SOIL - COMPACTED - EARTH

MATERIAL - SOIL - COMPACTED - FINE

MATERIAL - SOIL - UNDISTURBED - FINE

MATERIAL - SOIL - UNDISTURBED - EARTH

MATERIAL - STONE - CAST

MATERIAL - STONE - CUT FINISHED

MATERIAL - SYSTEM - DRAINABLE EXTERIOR INSULATION AND FINISH

MATERIAL - TERRAZZO - 1

MATERIAL - TERRAZZO - 2

MATERIAL - TILE - PORCELAIN

MATERIAL - WEEP JOINT MORTAR PROTECTION SYSTEM - SECTION

MATERIAL - WOOD - FINISH - COURSE GRAIN

MATERIAL - WOOD - FINISH - FINE GRAIN

MATERIAL - WOOD - FINISH VERTICAL GRAIN

MATERIAL - WOOD FLOORING

MATERIAL - WOOD - GLULAM

MATERIAL - WOOD - MDF

MATERIAL - WOOD - PARTICLE BOARD

MATERIAL - WOOD - PLYWOOD

MATERIAL - WOOD - CONTINUOUS - SECTION

MATERIAL - WOOD - BLOCKING - SECTION

FILLED REGIONS - GRAPHICS

GRAPHIC FILLED REGIONS ARE DRAFTING HATCH PATTERNS THAT ARE A SIMPLE GRAPHIC PATTERN AND DOES NOT REPRESENT A MATERIAL OR PRODUCT.

GRAPHIC - CONTRACT LIMIT - NOT-IN-CONTRACT

GRAPHIC - DEMOLITION

FILLED REGIONS - SURFACE

SURFACE FILLED REGIONS ARE MODELING HATCH PATTERNS THAT REPRESENT A MATERIAL OR PRODUCT AS REPRESENTED ON A VERTICAL OR HORIZONTAL SURFACE.

CEILING TILES

SURFACE - CEILING TILE - 24" x 24"

SURFACE - CEILING TILE - 24" x 24" - DEMO

SURFACE - CEILING TILE - 24" x 48"

SURFACE - CEILING TILE - 24" x 48" - DEMO

SURFACE - CEILING TILE - 24" x 72"

SURFACE - CEILING TILE - 24" x 72" - DEMO

SURFACE - CEILING TILE - 48" x 48"

SURFACE - CEILING TILE - 48" x 48" - DEMO

SURFACE - CEILING - ACOUSTICAL TILE - SECTION

MASONRY

SURFACE - MASONRY - BRICK - MODULAR - RUNNING BOND

SURFACE - MASONRY - CMU - 8" x 16" - RUNNING BOND

SURFACE - MASONRY - CMU - 8" x 16" - STACKED BOND

METALS

SURFACE - ENTRANCE GRID - 65 MM

GENERAL SYMBOLOGY

ARROW INDICATES DIRECTION OF TRUE NORTH

LINE INDICATES DIRECTION OF PLAN NORTH

NORTH ARROW

MATCH LINE

SEE XX/XXXXXXXX

MATCH LINE

X

PLAN

1/4" = 1'-0"

PLAN TITLE ON SHEET

NOTE 1

X

VIEW TITLE

1/4" = 1'-0"

NOTE 2

DETAIL

FOR REFERENCING DETAILS INCLUDED IN DRAWING SET.

1. DETAIL NUMBER

2. SHEET WHERE DETAIL IS LOCATED *

SECTION

1. SECTION LETTER

2. SHEET WHERE SECTION VIEW IS FIRST CUT *

ELEVATION

1. ELEVATION IDENTIFICATION NUMBER

2. SHEET WHERE POINT OF VIEW MARKER CAN BE FOUND *

SECTION, DETAIL, ELEVATION TITLE

DETAIL NUMBER

X

XXX

DETAIL IS LOCATED *

DETAIL CALLOUT

FOR REFERENCING DETAILS INCLUDED IN DRAWING SET

ARROW INDICATES DIRECTION OF SECTION CUT

SECTION LETTER

X

XXX

SHEET WHERE SECTION IS LOCATED

FULL BUILDING SECTION CUT MARKER

SECTION LETTER

FLAG INDICATES DIRECTION OF SECTION CUT

X

XXX

SHEET WHERE SECTION IS LOCATED

SECTION CUT MARKER

ARROW INDICATES POINT OF VIEW

ELEVATION NUMBER

X

XXX

INTERIOR

EXTERIOR

SHEET WHERE ELEVATION IS LOCATED *

SINGLE ELEVATION OR PHOTO MARKER

ARROW INDICATES POINT OF VIEW ELEVATION

ELEVATION NUMBER

X

XXX

INDICATES SHEET WHERE ELEVATION IS LOCATED

MULTIPLE ELEVATION OR PHOTO MARKER

ARROW INDICATES POINT OF VIEW

ELEVATION NUMBER

X

XXX

INDICATES SHEET WHERE ELEVATION IS LOCATED

TARGET ELEVATION MARKER

TARGET ELEVATION

GENERAL TAGGING

ROOM/SPACE NAME

XX-XX

ROOM OR SPACE

DOOR

XXX

DOOR

DOOR MARK

XXX

STAIR

XXX

XXX

XXX

FIRE DOOR/STAIR

A

NEW COLUMN GRID BUBBLE

A

EXISTING COLUMN GRID BUBBLE

X

WALL TYPE

X

CURTAIN WALL

X

WINDOW TYPE

X

ACCESSORY, FURNITURE, AND MISCELLANEOUS EQUIPMENT IDENTIFIER

X

LOUVER TYPE

KEYNOTE NUMBER

##

SHEET KEYNOTE

REVISION DELTA

##

EQUIPMENT IDENTIFICATION

NOTE: THE BELOW EQUIPMENT TAG IS AN EXAMPLE ONLY. MODIFY FIELDS AS REQUIRED PER THE PROJECT STANDARD.

FIGURE

NPWP2023

SERVICE ABBREVIATION

AREA DESIGNATION

EQUIPMENT ABBREVIATION

BUILDING OR STRUCTURE NUMBER

EQUIPMENT NUMBER

EXAMPLE

INDICATES NON-POTABLE WATER

INDICATES PUMP

BUILDING 20

PUMP 23

PIPING

NOTE: THE BELOW PIPE TAG IS AN EXAMPLE ONLY. MODIFY FIELDS AS REQUIRED PER THE PROJECT STANDARD.

FIGURE

36"-PLE

LINE SIZE

SERVICE

36"

PLANT EFFLUENT

PIPING (ALTERNATE)

FIGURE

36"-PLE

LINE SIZE

SERVICE

36"


PLANT EFFLUENT

GENERAL LINE STYLES

4-HOUR FIRE RATED WALL

1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED
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ISSUE	DATE	DESCRIPTION

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CIVIL	M. WIEBELHAUS
ARCHITECTURAL	E. BUTTMAN
MECHANICAL	M. WARRICK
PROJECT NUMBER	10417754



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

GENERAL LEGEND

FILE NAME	FileName
SCALE	12" = 1'-0"



SHEET
00G003

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ISSUE	DATE	DESCRIPTION
1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED
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CIVIL MAPPING SYMBOLOGY

	EMBANKMENT SLOPE (CUT)
	EMBANKMENT SLOPE (FILL)
	EMBANKMENT SLOPE RIGHT ARROW RIGHT
	EMBANKMENT SLOPE LEFT ARROW LEFT
	SPOT ELEVATION/POINT #
	SURVEY BENCHMARK
	SURVEY CONTROL POINT
	HORIZONTAL CONTROL POINT
	VERTICAL CONTROL POINT
	SECTION CORNER MONUMENT
	SECTION CORNER NO MONUMENT
	IDENTIFICATION AND APPROXIMATE LOCATION OF SOIL TEST HOLE
	TEST PIT
	SOIL BORING
	BUOY
	FLOW ARROW
	WATER LEVEL IN SECTION/PROFILE
	TIDE GAUGE
	EXISTING UTILITY POLE
	DOWNGUY
	EXTERIOR UTILITY JUNCTION BOX
	INTERSTATE HIGHWAY SYMBOL
	US HIGHWAY SYMBOL
	STATE HIGHWAY SYMBOL
	HAY BALE SILT CHECK
	TEMPORARY SEDIMENT TRAP
	PIEZOMETER
	RAIL SIGNAL
	RAIL SWITCH
	SIGN
	TIRE TREDDLE
	TRAFFIC ARM WITH CARD READER
	TRAFFIC ARM MECHANICAL SWING

	CLEANOUT
	CULVERT END SYMBOL (WITH CULVERT SHOWN BETWEEN SYMBOLS)
	FIRE HYDRANT
	FUEL OIL METER
	FUEL OIL MANHOLE
	FUEL OIL VAULT
	GREASE TRAP
	GRIT CHAMBER
	HEADWALL
	INDUSTRIAL WASTE WATER METER
	INDUSTRIAL WASTE WATER MANHOLE
	NATURAL GAS METER
	NATURAL GAS RECEIVER
	NATURAL GAS TRAP
	NATURAL GAS LINE VAULT
	MONITORING WELL
	POST INDICATOR VALVE
	PUMP STATION
	SANITARY MANHOLE
	SEPTIC TANK
	TANK BELOW GROUND
	TANK HORIZONTAL ABOVE GROUND
	TANK VERTICAL ABOVE GROUND

	STORM CATCH BASIN
	STORM ROUND CATCH BASIN
	STORM DRAINAGE MANHOLE
	WATER/AIR VENT
	WATER BACKFLOW PREVENTER
	WATER BLOWOFF
	WATER METER
	WATER SHUTOFF
	WATER SOFTENER
	WATER VALVE VAULT
	VALVE

UTILITY/CIVIL LINE SYMBOLOGY

	PIPELINE
	LARGE PIPELINE
	UTILITY BENEATH STRUCTURE
	RAILROAD
	CENTERLINE
	BOTTOM OF DITCH
	PROPERTY LINE
	EASEMENT
	LIMITS OF CONSTRUCTION
	ROW
	EXISTING CONTOUR (MINOR)
	EXISTING CONTOUR WIELEVATION (MAJOR)
	EXISTING FENCE
	EXISTING VEGETATION/BRUSH LINE
	FENCE - BARB WIRE
	FENCE - CHAIN LINK
	FENCE - FIELD
	FENCE - OTHER
	FENCE - WOOD
	FENCE - WOVEN WIRE
	FLOOD LIMIT (25 YEAR)
	FLOOD LIMIT (50 YEAR)
	FLOOD LIMIT (100 YEAR)
	FLOOD LIMIT (500 YEAR)
	HIGHWAY GUARDRAIL
	LEVEE TOP
	LEVEE TOE
	NEW CONTOUR (MINOR)
	NEW CONTOUR (MAJOR)
	ROCK BERM
	SILT FENCE
	LIMITS OF DISTURBANCE
	TOE OF SLOPE
	TOP OF SLOPE

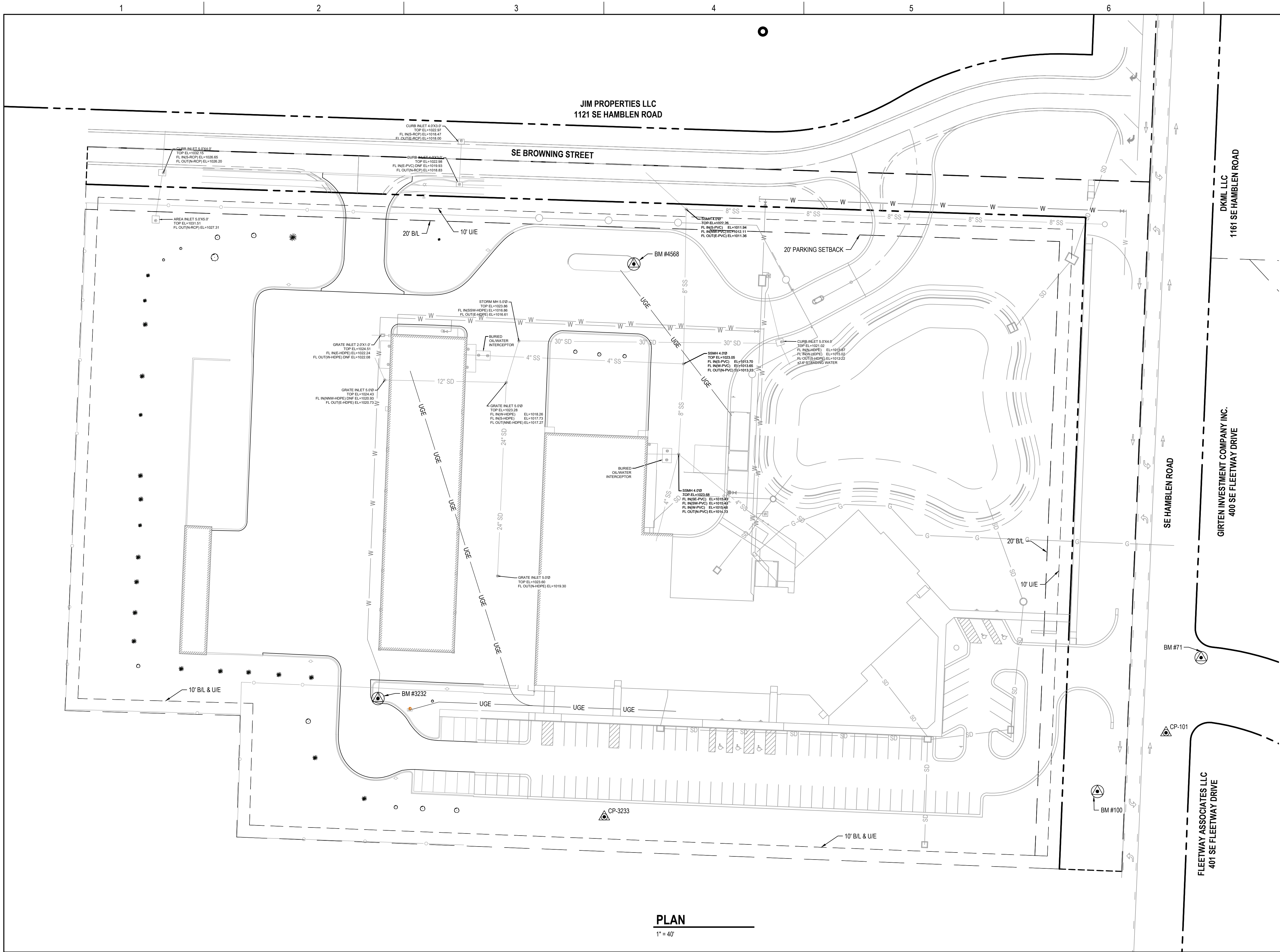
	FO		FO		FIBER OPTIC
	FOS		FOS		FUEL OIL
	G		G		NATURAL GAS
	IW		IW		INDUSTRIAL WASTE WATER
	SS		SS		SANITARY SEWER
	SD		SD		STORM SEWER
	W		W		DOMESTIC WATER
	NPW		NPW		DOMESTIC WATER NON-POTABLE

GENERAL NOTES:

- THIS IS A STANDARD CIVIL SYMBOLOGY SHEET. 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.

PIPING SYSTEMS	PIPING SYMBOLOGY	HVAC SYMBOLOGY	TEMPERATURE CONTROL DIAGRAM SYMBOLOGY	ABBREVIATIONS
<div><div>COLD WATER, POTABLE (CW)</div><div>HOT WATER, POTABLE (HW)</div><div>HOT WATER RECIRCULATING, POTABLE (HWC)</div><div>NON POTABLE COLD WATER</div><div>HOT WATER - TEMPERATURE, POTABLE</div><div>TEPID WATER, POTABLE</div><div>TEPID WATER RETURN, POTABLE</div><div>SANITARY SEWER BELOW GRADE</div><div>SANITARY SEWER ABOVE GRADE</div><div>SANITARY VENT</div><div>ACID WASTE</div><div>ACID VENT</div><div>COMBINATION WASTE AND VENT</div><div>PRESSURE DRAINAGE</div><div>STORM DRAIN ABOVE GRADE</div><div>STORM DRAIN BELOW GRADE</div><div>STORM DRAIN OVERFLOW</div><div>NATURAL GAS</div><div>LIQUEFIED PROPANE</div><div>COMPRESSED AIR</div><div>HEATING HOT WATER SUPPLY</div><div>HEATING HOT WATER RETURN</div><div>GLYCOL HEATING HOT WATER SUPPLY</div><div>GLYCOL HEATING HOT WATER RETURN</div><div>CHILLED WATER SUPPLY</div><div>CHILLED WATER RETURN</div><div>GLYCOL CHILLED WATER SUPPLY</div><div>GLYCOL CHILLED WATER RETURN</div><div>CONDENSER WATER SUPPLY</div><div>CONDENSER WATER RETURN</div><div>REFRIGERANT LIQUID</div><div>REFRIGERANT SUCTION</div><div>CONDENSATE DRAIN</div><div>CONDENSATE PUMP DISCHARGE</div><div>STEAM SUPPLY - PSI</div><div>BOILER BLOW DOWN</div><div>BOILER FEED</div><div>STEAM VENT</div><div>MAKE-UP WATER</div></div>	<div><div>PIPE ANCHOR</div><div>PIPE GUIDE</div><div>EXPANSION JOINT</div><div>PRESSURE/ TEMPERATURE PORT</div><div>THERMOMETER</div><div>THERMOWELL</div><div>PRESSURE GAUGE</div><div>TEMPERATURE GAUGE</div><div>FLEXIBLE PIPING CONNECTION</div><div>WYE STRAINER</div><div>MANUAL AIR VENT</div><div>AUTOMATIC AIR VENT</div><div>METER (WATER, GAS, OTHER)</div><div>FLOOR CLEANOUT</div><div>CLEANOUT</div><div>WALL CLEANOUT</div><div>DOUBLE GRADE CLEANOUT</div><div>WATER HAMMER ARRESTOR</div><div>EARTHQUAKE VALVE</div><div>CONCENTRIC REDUCER</div><div>ECCENTRIC REDUCER, FLAT ON BOTTOM</div><div>ECCENTRIC REDUCER, FLAT ON TOP</div><div>ELBOW, 90° TURN DOWN</div><div>ELBOW, 90° TURN UP</div><div>TEE, OUTLET UP</div><div>TEE, OUTLET DOWN</div><div>TEE, OUTLET UP W/ 90° TURN</div><div>TEE, OUTLET DOWN W/ 90° TURN</div><div>PIPE BREAK</div><div>PIPE CAP</div><div>BLIND FLANGE</div><div>UNION</div><div>FLOW ARROW</div><div>SHUTOFF VALVE (NORMALLY OPEN)</div><div>SHUTOFF VALVE (NORMALLY CLOSED)</div><div>DRAIN VALVE</div><div>CHECK VALVE</div><div>VACUUM BREAKER</div><div>AUTOMATIC FLOW CONTROL VALVE</div><div>CALIBRATED MANUAL BALANCING VALVE</div><div>PRESSURE-RELIEF VALVE</div><div>PRESSURE-REDUCING VALVE (PRV)</div><div>AUTOMATIC CONTROL VALVE, 2-WAY</div><div>AUTOMATIC CONTROL VALVE, 3-WAY</div><div>BACKFLOW PREVENTER</div><div>PLUMBING FIXTURE</div></div>	<div><div>SUPPLY AIR OR OUTSIDE AIR DUCT UP (SECTION CUT, FIRST DIMENSION DUCT WIDTH)</div><div>SUPPLY AIR OR OUTSIDE AIR DUCT DOWN (NO SECTION CUT)</div><div>RETURN AIR DUCT UP (SECTION CUT)</div><div>RETURN AIR DUCT DOWN (NO SECTION CUT)</div><div>EXHAUST AIR DUCT UP (NO SECTION CUT)</div><div>EXHAUST AIR DUCT DOWN (NO SECTION CUT)</div><div>ROUND ELBOW UP</div><div>ROUND ELBOW DOWN</div><div>TRANSITION - RECTANGULAR TO ROUND DUCT</div><div>STANDARD BRANCH</div><div>ELBOW - W/TURNING VANE (RECTANGULAR)</div><div>ELBOW - (RECTANGULAR), SMOOTH RADIUS</div><div>RECTANGULAR DUCT OR OPENING SIZE FIRST NUMBER INDICATES SIZE OF SIDE SHOWN</div><div>ROUND DUCT SIZE</div><div>RECTANGULAR DUCT INCLINE - RISE OR DROP IN RESPECT TO THE AIR FLOW</div><div>ROUND DUCT INCLINE - RISE OR DROP IN RESPECT TO THE AIR FLOW</div><div>HIDDEN DUCT</div><div>DUCT/PIPE ELEVATION TAG ABOVE FINISH FLOOR</div><div>VOLUME DAMPER</div><div>MOTOR OPERATED DAMPER</div><div>FIRE DAMPER</div><div>SMOKE DAMPER</div><div>SMOKE AND FIRE DAMPER</div><div>FLEXIBLE CONNECTION</div><div>FLEXIBLE DUCT - TWO LINE</div><div>FLEXIBLE DUCT - ONE LINE</div><div>ACOUSTICAL LINING - DUCT DIMENSIONS FOR NET FREE AREA</div><div>UNDERCUT DOOR</div><div>NEW TO EXISTING CONNECTION</div><div>REMOVE EXISTING UP TO THIS POINT</div><div>HVAC EMERGENCY SHUTDOWN SWITCH</div></div>	<div><div>MISCELLANEOUS DEVICE IDENTIFIER</div><div>CO SPACE CARBON MONOXIDE SENSOR</div><div>CO2 SPACE CARBON DIOXIDE SENSOR</div><div>H SPACE HUMIDITY SENSOR</div><div>NO2 SPACE NITROGEN DIOXIDE SENSOR</div><div>S SPACE TEMPERATURE SENSOR</div><div>T THERMOSTAT</div><div>CONTROL DEVICE IDENTIFIER</div><div>AFS AIRFLOW MEASURING STATION</div><div>AM AIRFLOW MEASURING SENSOR</div><div>CO CARBON MONOXIDE SENSOR</div><div>CO2 CARBON DIOXIDE SENSOR</div><div>F FLOW SWITCH</div><div>FRZ FREEZE STAT</div><div>H HUMIDITY SENSOR</div><div>HS HIGH STATIC SWITCH</div><div>LS LOW STATIC SWITCH</div><div>NO2 NITROGEN DIOXIDE SENSOR</div><div>P PRESSURE SENSOR</div><div>S SPACE TEMPERATURE SENSOR</div><div>SD SMOKE DETECTOR</div><div>T TEMPERATURE SENSOR</div><div>TS TEMPERATURE SWITCH</div><div>ΔP DIFFERENTIAL PRESSURE SENSOR</div><div>CONTROL INPUT/OUTPUT IDENTIFIER</div><div>AI ANALOG INPUT</div><div>AO ANALOG OUTPUT</div><div>DI DIGITAL INPUT</div><div>DO DIGITAL OUTPUT</div><div>DUCT MOUNTED SMOKE DETECTOR</div><div>TEMPERATURE AVERAGING SENSOR</div><div>MOTOR OPERATED DAMPER</div><div>MOTOR OPERATED SINGLE BLADE DAMPER</div><div>BACKDRAFT DAMPER</div><div>HUMIDIFIER</div><div>AIRFLOW MEASURING STATION</div><div>INTAKE/ EXHAUST LOUVER</div><div>FILTER</div><div>FREEZE STAT</div><div>FAN</div><div>FAN WITH EC MOTOR</div><div>PUMP</div><div>PUMP WITH EC MOTOR</div></div>	<div><div>AD ACCESS DOOR</div><div>AFR ABOVE FINISHED ROOF</div><div>AHU AIR HANDLING UNIT</div><div>APD AIR PRESSURE DROP</div><div>ARF ABOVE RAISED FLOOR</div><div>AV AIR VALVE</div><div>BAS BUILDING AUTOMATION SYSTEM</div><div>BDD BACK DRAFT DAMPER</div><div>BHP BRAKE HORSE POWER</div><div>BOE BOTTOM OF EQUIPMENT</div><div>BTUH BRITISH THERMAL UNITS PER HOUR</div><div>CAV CONSTANT AIR VOLUME</div><div>CFH CUBIC FEET PER HOUR</div><div>CFM CUBIC FEET PER MINUTE</div><div>COP COEFFICIENT OF PERFORMANCE</div><div>COR CONTRACTING OFFICER'S REPRESENTATIVE</div><div>CRAC COMPUTER ROOM AIR CONDITIONER</div><div>CU CONDENSING UNIT</div><div>DB DRY BULB</div><div>MA MIXED AIR</div><div>NC NORMALLY CLOSED</div><div>NO NORMALLY OPEN</div><div>OAT OUTDOOR AIR</div><div>RA RETURN AIR</div><div>RF RETURN FAN</div><div>RL RELIEF FAN</div><div>SA SUPPLY AIR</div><div>SF SUPPLY FAN</div><div>TCC TEMPERATURE CONTROL CONTRACTOR</div><div>VFD VARIABLE FREQUENCY DRIVE</div><div>I/O INPUT/OUTPUT</div><div>I/P CURRENT TO PNEUMATIC</div><div>IAQ INDOOR AIR QUALITY</div><div>IPLV INTEGRATED PART LOAD VALUE</div><div>LAT LEAVING AIR TEMPERATURE</div><div>LVR LOUVER</div><div>LWT LEAVING WATER TEMPERATURE</div><div>MAU MAKE-UP AIR UNIT</div><div>MBH THOUSAND BTUH</div><div>MCC MOTOR CONTROL CENTER</div><div>NC NOISE CRITERIA</div><div>NO NUMBER</div><div>NRC NOISE REDUCTION COEFFICIENT</div><div>OS&Y OUTSIDE SCREW AND YOKE</div><div>PD PRESSURE DROP</div><div>PPH POUNDS PER HOUR</div><div>RH RELATIVE HUMIDITY</div><div>RTU ROOFTOP UNIT</div><div>S SIGNAL PORT</div><div>SCFM STANDARD CUBIC FEET PER MINUTE</div><div>SEER SEASONAL ENERGY EFFICIENCY RATIO</div><div>SP STATIC PRESSURE</div><div>TC TECHNOLOGY CONTRACTOR</div><div>TCP TEMPERATURE CONTROL PANEL</div><div>TD TEMPERATURE DIFFERENTIAL</div><div>TES THERMAL ENERGY STORAGE</div><div>TSP TOTAL STATIC PRESSURE</div><div>UH UNIT HEATER</div><div>V&C VALVE AND CAP</div><div>VAV VARIABLE AIR VOLUME</div><div>VRF VARIABLE REFRIGERANT FLOW</div><div>VTR VENT THROUGH ROOF</div><div>WB WET BULB</div><div>WC WATER COLUMN</div><div>WPD WATER PRESSURE DROP</div></div>
<div><div>GENERAL MECHANICAL DEMOLITION NOTES</div><div>1. THE CONTRACTOR SHALL COMPLETELY REMOVE ALL PIPING, DUCTWORK, COILS, EQUIPMENT, TERMINAL UNITS, ASSOCIATED CONTROLS, WIRING, AND OTHER ITEMS SHOWN BOLD AND/OR DASHED LINES UNLESS SPECIFICALLY NOTED OTHERWISE. THE ITEMS INDICATED ON THE DRAWINGS TO BE REMOVED ARE ONLY TO INDICATE IN GENERAL THE AMOUNT OF DEMOLITION WORK INVOLVED. A SITE INVESTIGATION BY THE CONTRACTOR MUST BE PERFORMED TO AID IN DETERMINING THE COMPLETE EXTENT OF WORK INVOLVED.</div><div>2. PIPING AND DUCTWORK EMBEDDED IN FLOORS, WALLS, AND CEILING MAY REMAIN IF SUCH MATERIALS DO NOT INTERFERE WITH NEW INSTALLATIONS. REMOVE MATERIALS ABOVE ACCESSIBLE CEILING. REMAINING PIPING SHALL BE DRAINED AND CAPPED WITHOUT CREATING DEAD LEGS IN THE SYSTEM. REMAINING DUCTWORK SHALL BE CAPPED.</div><div>3. LOCATE, IDENTIFY, AND PROTECT MECHANICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE THE DEMOLITION LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, NOTIFY OWNER AND INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS.</div><div>4. EXISTING EQUIPMENT BEING REMOVED AND CONSIDERED SALVAGEABLE BY THE OWNER SHALL BE TURNED OVER TO THE OWNER.</div><div>5. CONTRACTORS SHALL COORDINATE AND SCHEDULE ALL NECESSARY UTILITY SHUT-OFFS WITH OWNER PRIOR TO PROCEEDING WITH SUCH WORK.</div><div>6. COORDINATE SAW-CUTTING OF THE FLOOR OR WALL WITH OTHER TRADES.</div><div>7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALLS, FLOORS, CEILING, OR OTHER BUILDING ELEMENTS THAT ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF MECHANICAL WORK. SUCH WORK SHALL MATCH THE EXISTING CONSTRUCTION, FINISH, AND RATING. FIRE SEAL WALL OPENINGS AS REQUIRED.</div><div>8. REPLACE/REPAIR DAMAGED PIPING AND/OR DUCTWORK INSULATION TO MATCH EXISTING.</div><div>9. CONTRACTOR SHALL PROVIDE WORK IN PHASES AS REQUIRED BY THE CONTRACT DOCUMENTS WHILE MINIMIZING POTENTIAL WORK DELAYS AND UTILITY SHUT-DOWNS. COORDINATE ALL WORK WITH PROJECT PHASING PLAN AND WORK SHOWN ON DEMOLITION AND NEW PLANS. ALL EXISTING AREAS OF THE BUILDING NOT A PART OF A CURRENT PHASE OF WORK SHALL REMAIN OPERATIONAL WHILE WORK IN EACH INDIVIDUAL PHASE IS COMPLETED.</div></div> <div><div>GENERAL MECHANICAL NOTES</div><div>1. THESE NOTES ARE NOT ALL INCLUSIVE. REFER TO DRAWINGS AND SPECIFICATION FOR ADDITIONAL REQUIREMENTS.</div><div>2. THIS IS A STANDARD MECHANICAL (HVAC AND PLUMBING) SYMBOLOGY AND ABBREVIATIONS SHEET. LISTING OF SYMBOLS AND ABBREVIATIONS DOES NOT IMPLY ALL SYMBOLS AND ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT.</div><div>3. VALVE SYMBOLS SHOWN HERE ARE APPLICABLE ONLY TO MECHANICAL SHEETS.</div><div>4. PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS AS SPECIFIED, OR AS REQUIRED BY CODE.</div><div>5. MECHANICAL INSTALLATION SHALL COMPLY WITH THE ADA/ABA ACCESSIBILITY GUIDELINES.</div><div>6. DETAILS APPLY TO THE ENTIRE PROJECT AND ARE ONLY REFERENCED TO PROVIDE CLARITY IF THERE ARE MULTIPLE DETAILS THAT COULD APPLY TO A PARTICULAR PROJECT CONDITION.</div><div>7. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING WITH OTHER TRADES BEFORE PROCEEDING WITH WORK. DO NOT INSTALL MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING ABOVE ELECTRICAL EQUIPMENT WHERE PROHIBITED BY ELECTRICAL CODES (SWITCHBOARDS, PANELS, ETC.).</div><div>8. LIGHT LINE WEIGHT INDICATES EXISTING PIPING, DUCTWORK, AND/OR EQUIPMENT TO REMAIN. BOLD LINE WEIGHT INDICATES NEW WORK TO BE INSTALLED AS WORK OF THIS CONTRACT.</div><div>9. COORDINATE INSTALLATION OF OUTSIDE AIR INTAKE WITH INSTALLATION OF PLUMBING VENTS, FLUES AND EXHAUST/RELIEF OUTLETS TO MAINTAIN 1' SEPARATION.</div><div>10. ALL WORK IN FINISHED SPACES SHALL BE LOCATED ABOVE CEILING, IN CHASES OR OTHER CONCEALED ACCESSIBLE LOCATIONS UNLESS NOTED OTHERWISE. LOCATE AND ARRANGE VALVES, DRAIN FITTINGS, ETC. TO BE ACCESSIBLE THROUGH LAY-IN CEILING, ACCESS PANELS OR ACCESS DOORS. PROVIDE AN ACCESS PANEL OR DOOR FOR ALL NON-ACCESSIBLE INSTALLATIONS. COORDINATE LOCATION OF ACCESS PANELS OR DOORS WITH THE ARCHITECT/ENGINEER AND OTHER TRADES.</div><div>11. ALL MATERIALS LOCATED IN PLENUM SHALL BE RATED FOR PLENUM INSTALLATION.</div><div>12. ALL DUCTWORK, PIPING, AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH ALL TRADES. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS OR AS SHOWN ON THE MECHANICAL OR</div></div>				

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PLAN

1" = 40'

GENERAL NOTES

- THE CURRENT EXISTING SURVEY DATA HAS BEEN COMPILED BY FIELD TOPOGRAPHIC SURVEY AND AS-BUILT INFORMATION. TOPOGRAPHICAL SURVEY DATA IS SHOWN IN BOLD LINE WORK. SUPPLEMENTAL AS-BUILT INFORMATION IS SHOWN AS GRAYSCALE FOR INFORMATIONAL PURPOSES ONLY.
- PROPERTY LINE AND RIGHT-OF-WAY MONUMENTS SHALL NOT BE DISTURBED BY CONSTRUCTION. IF DISTURBED, THEY SHALL BE RESET TO THEIR ORIGINAL LOCATIONS BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

HORIZONTAL AND VERTICAL CONTROL DATA

HORIZONTAL DATUM= MISSOURI STATE PLANE, WEST ZONE (NAD83)
SCALED FROM 0,0 USING A FACTOR OF 0.9998972/1.000102811
VERTICAL DATUM= NAVD88

CPT-101 (FND 1/2" REBAR)
N=994220.95
E=2827901.54
ELEV=1018.71

Found 1/2" Iron Bar at the SE corner of Hamblen Rd and Fleetway Dr., 72.2' NE of a fire hydrant, 3.2' ESE of back of curb.

CPT-3233 (FND 1/2" REBAR)
N=994153.68
E=28274452.20
ELEV=1028.64

Found 1/2" Iron Bar at the S side of S parking lot to W.U.F., approximately 166' E of the SW corner parking lot, 12' S of back of curb.

Benchmarks

BM-71 ELEV=1020.25
Top center of Fire Hydrant Nut at the NE corner of Hamblen Rd and Fleetway Dr.

BM-100 ELEV=1021.44
Found "+" cut at top SE flange bolt of a Fire Hydrant at W side Hamblen Rd, S of W.U.F. entrance.

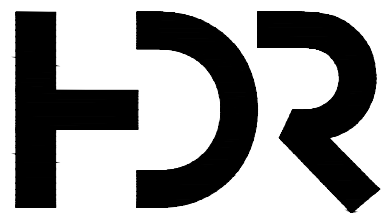
BM-3232 ELEV=1030.51
Found "+" cut at top SSW flange bolt of a Fire Hydrant at N side cul-de-sac.

BM-4568 ELEV=1023.19
Set square cut at E side nose of conc. island for fuel tanks, N side W.U.F.

Note:
All Control Points shown have elevations established using standard surveying procedures and can be used as temporary benchmarks. When using a Control point as a temporary benchmark, it is recommended that checks be made to other control points or benchmarks to confirm elevations prior to use.

SURVEY NOTES

- ALL WATER LINES AND ELECTRICAL LINES SHOWN ARE BASED ON WATER UTILITIES FACILITY PLAN PROJECT #224935 DATED APRIL 15, 2016, MODIFIED JULY 26, 2017 UNLESS OTHERWISE NOTED.



HDR ENGINEERING, INC. | CA0443AE
10450 HOLMES ROAD, SUITE 600
KANSAS CITY, MO 64131
(816) 360-2600
MO CERTIFICATE OF AUTHORITY #: 000886

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

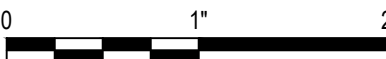
PROJECT MANAGER	K. PRINDS
CIVIL	M. WIEBELHAUS
ARCHITECTURAL	E. BUTTMAN
MECHANICAL	M. WARRICK
PROJECT NUMBER	10417754



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

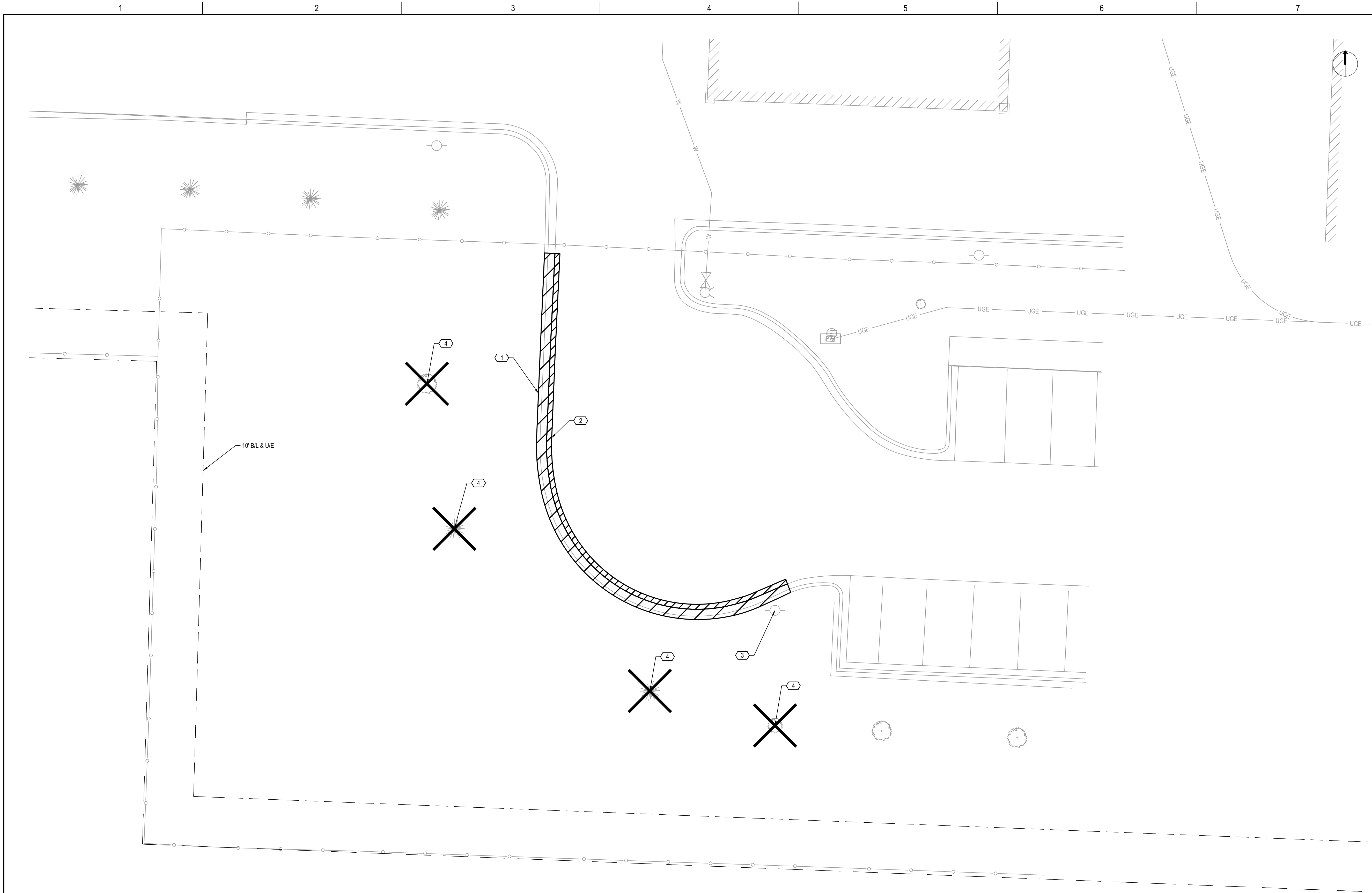
SURVEY CONTROL

FILE NAME 10417754-01V-101.DWG
SCALE 1"=40'



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GENERAL NOTES

- 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.
- REMOVAL OF MATERIALS FROM THE SITE SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

KEYNOTES

- REMOVE CONCRETE CURB AND GUTTER.
- REMOVE PAVEMENT SURFACE.
- REMOVE AND LIGHT CONCRETE FOUNDATION AND SALVAGE LUMINAIRE AND POLE.
- REMOVE TREE.

PLAN

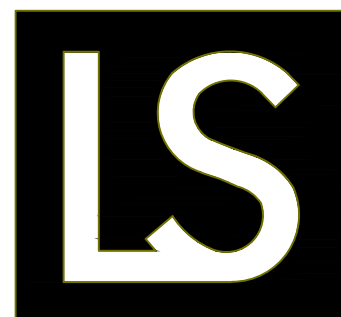
1" = 10'



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

ISSUE	DATE	DESCRIPTION
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0	03/07/2025	FINAL DEVELOPMENT PLAN

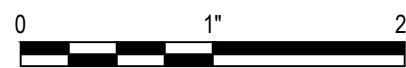
PROJECT MANAGER	K. PRINDS
CIVIL	M. WIEBELHAUS
ARCHITECTURAL	E. BUTTMAN
MECHANICAL	M. WARRICK
PROJECT NUMBER	10417754



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

DEMOLITION PLAN

FILE NAME 10417754-01CX-101.DWG
SCALE 1"=10'



SHEET #
01X101

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ISSUE	DATE	DESCRIPTION
1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED
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PROJECT MANAGER	K. PRINDS
CIVIL	M. WIEBELHAUS
ARCHITECTURAL	E. BUTTMAN
MECHANICAL	M. WARRICK
PROJECT NUMBER	10417754



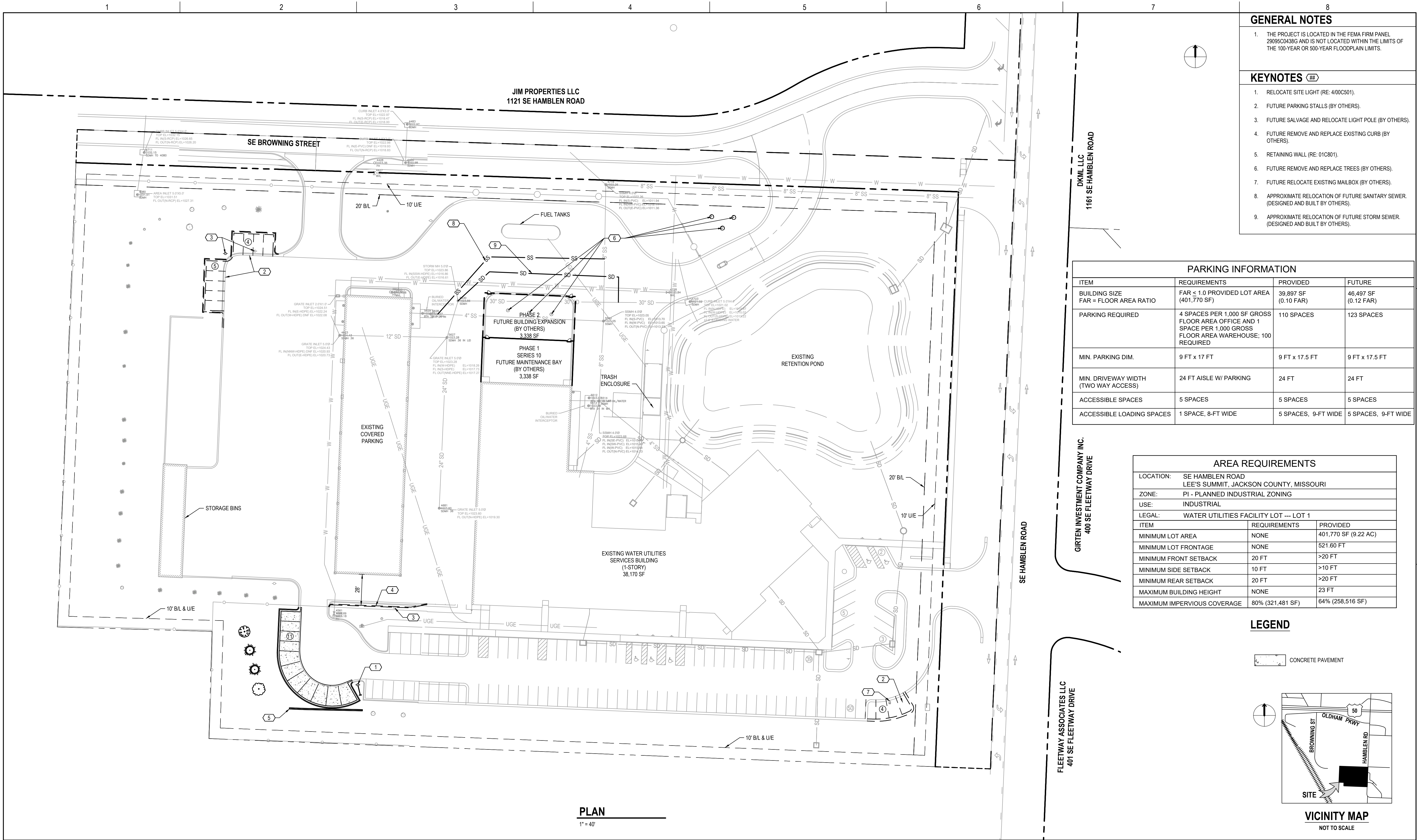
City of Lee's Summit, MO
Water Utilities Facility & Parking
Lot Expansion

FILE NAME 10417754-01C-101.DWG
SCALE 1"=40'

OVERALL SITE PLAN



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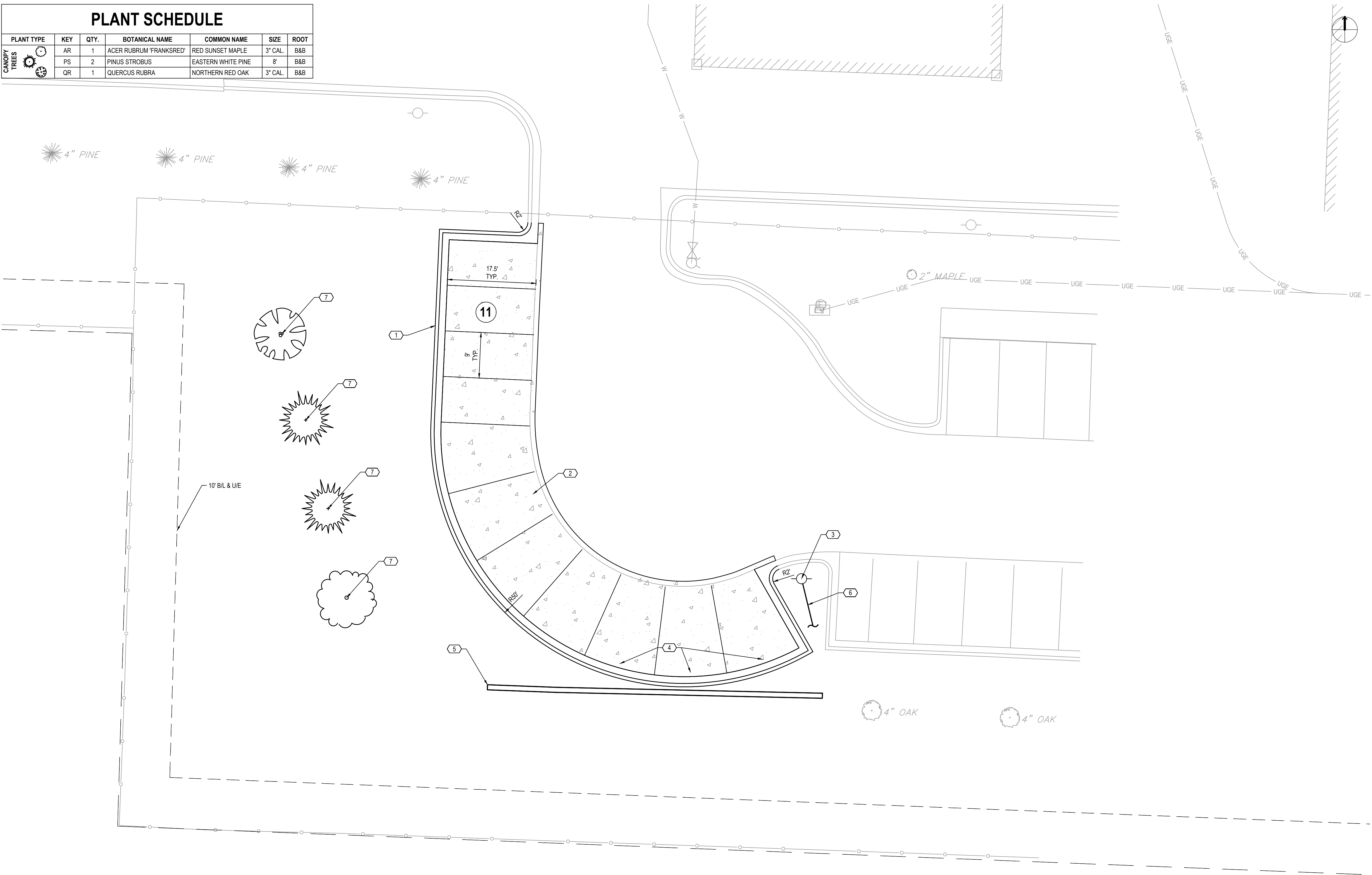
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PLANT SCHEDULE

PLANT TYPE	KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT
CANOPY TREES	AR	1	ACER RUBRUM 'FRANKSRED'	RED SUNSET MAPLE	3" CAL.	B&B
	PS	2	PINUS STROBUS	EASTERN WHITE PINE	8'	B&B
	QR	1	QUERCUS RUBRA	NORTHERN RED OAK	3" CAL.	B&B



PLAN

1" = 10'

GENERAL NOTES

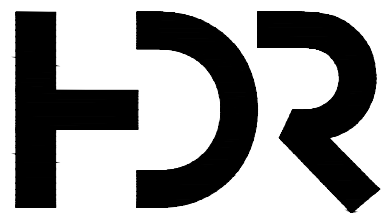
- ADJUST EXISTING MANHOLES, VALVE BOXES, AND STRUCTURES TO MATCH NEW GRADE THAT FALL WITHIN THE LIMITS OF THIS CONTRACT.
- THE LOCATION OF UNDERGROUND UTILITIES / PROCESS LINES ARE APPROXIMATE. NO EXCAVATION WILL BE PERMITTED UNTIL BURIED UTILITIES HAVE BEEN VISIBLY LOCATED BY THE CONTRACTOR.
- ALL SITE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL, LEE'S SUMMIT UNIFIED DEVELOPMENT ORDINANCE (UDO), AND THESE PLANS.
- THE CONTRACTOR SHALL ADJUST TO GRADE ALL WATER AND PROCESS VALVE BOXES/MANHOLES THAT FALL WITHIN THE LIMITS OF THIS CONTRACT. THE CONTRACTOR SHALL KEEP ALL UTILITIES AND SEWERS FREE OF DEBRIS AND OPERABLE AT ALL TIMES DURING CONSTRUCTION.

KEYNOTES

- CURB & GUTTER (CG-1 DRY) (RE: 5/00C501).
- LIGHT DUTY CONCRETE PARKING LOT SECTION (RE: 2/00C501).
- RELOCATE SITE LIGHT (RE: 4/00C501).
- INSTALL PRECAST CONCRETE WHEEL STOP (RE: 5/00C501).
- RETAINING WALL (RE: 01C801).
- RECONNECT RELOCATED LIGHT TO ITS ORIGINAL CIRCUIT. ROUTE OF UNDERGROUND CIRCUIT IS UNKNOWN. FIELD VERIFY UNDERGROUND CIRCUIT LOCATION PRIOR TO WORK AND NOTIFY ENGINEER. RE-USE EXISTING UNDERGROUND CONDUIT AND WIRE TO THE GREATEST EXTENT POSSIBLE. PROVIDE NEW CONDUIT AND WIRE, IF NECESSARY, AND MATCH EXISTING.
- PLANT NEW TREE (RE: PLANT SCHEDULE ON THIS SHEET).

LEGEND

CONCRETE PAVEMENT



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

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PROJECT MANAGER	K. PRINDS
CIVIL	M. WIEBELHAUS
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MECHANICAL	M. WARRICK
PROJECT NUMBER	10417754



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

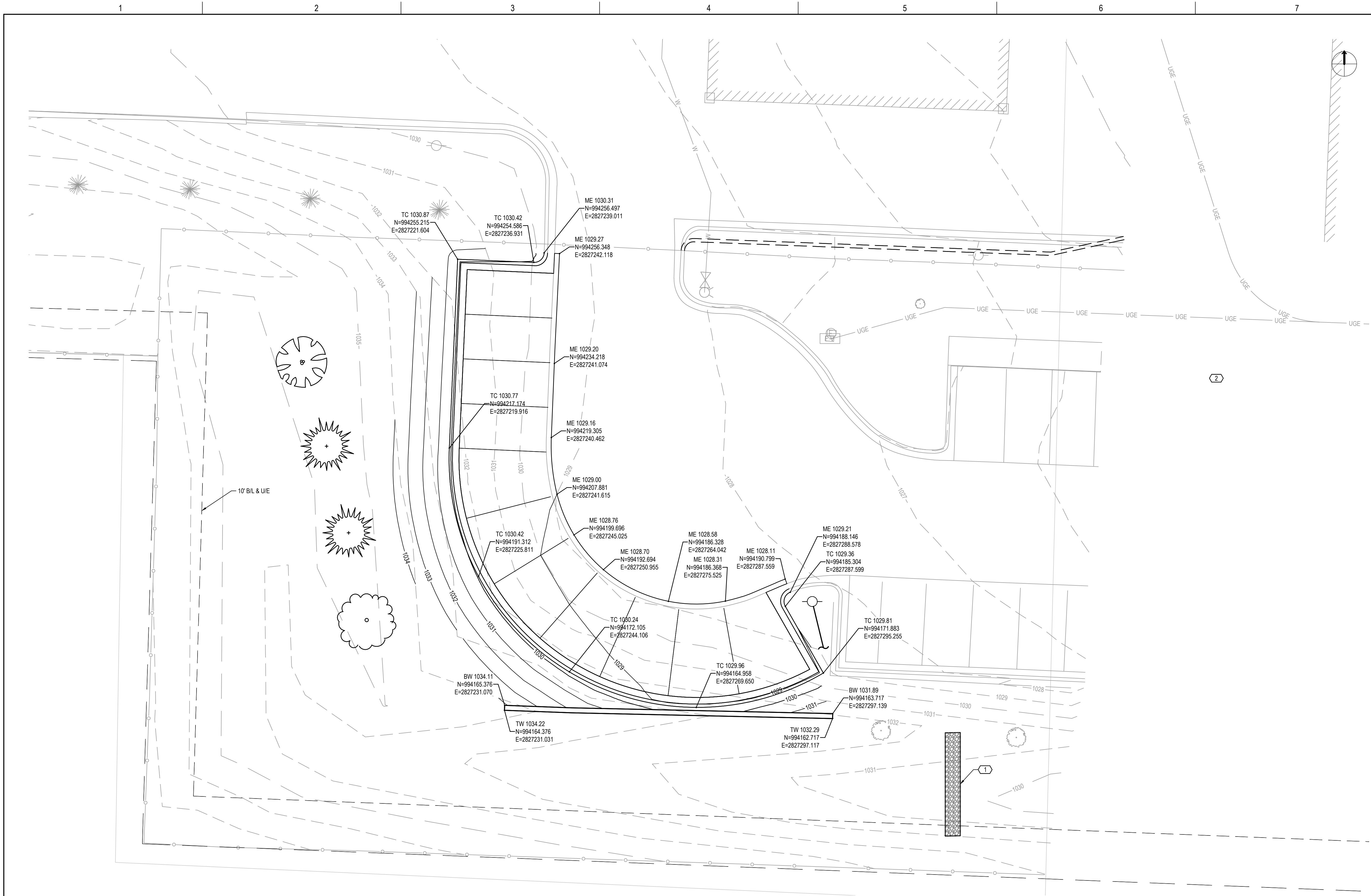
ENLARGED SITE PLAN

FILE NAME 10417754-01C-102.DWG
SCALE 1"=10'



SHEET #
01C102

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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.

KEYNOTES

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

LEGEND

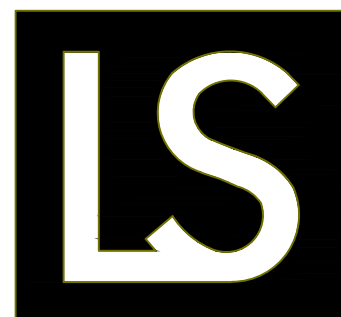
TC-TOP OF CURB
TP-TOP OF PAVEMENT
TW-TOP OF WALL
BW-BOTTOM OF WALL
ME-MATCH EXISTING



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KANSAS CITY, MO 64131
(816) 360-2600
MO CERTIFICATE OF AUTHORITY #: 000856

ISSUE	DATE	DESCRIPTION
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0	03/07/2025	FINAL DEVELOPMENT PLAN

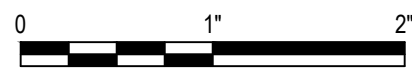
PROJECT MANAGER	K. PRINDS
CIVIL	M. WIEBELHAUS
ARCHITECTURAL	E. BUTTMAN
MECHANICAL	M. WARRICK
PROJECT NUMBER	10417754



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

GRADING & EROSION CONTROL PLAN

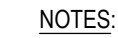
FILE NAME 10417754-01C-103.DWG
SCALE 1"=10'



SHEET #
01C103



1. CONCRETE AND REINFORCING STEEL; SEE DIVISION 3



1. THE GUTTERBUDDY® OR APPROVED EQUAL SHALL BE A FILTER MANUFACTURED FROM RECYCLED SYNTHETIC FIBERS OR APPROVED ALTERNATIVE.
2. THE GUTTERBUDDY® WILL BE MANUFACTURED TO BE 9" IN DIAMETER 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.
3. THE GUTTERBUDDY® SHALL BE CLEANED IF A VISUAL INSPECTION SHOWS SILT AND DEBRIS BUILD UP AROUND THE GUTTERBUDDY®.
4. PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY. INSPECTION OF GUTTERBUDDY® SHOULD BE ON A REGULAR BASIS AND IMMEDIATELY AFTER MAJOR RAIN EVENTS.



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



(TYPE CG-1 DRY)

- GENERAL CURB NOTES:

1. 3/4" ISOLATION JOINTS WITH 2 (2-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 15' 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.
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.
8. ALL DOWELS & TIE BARS SHALL BE EPOXY COATED.



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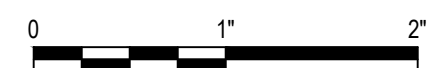


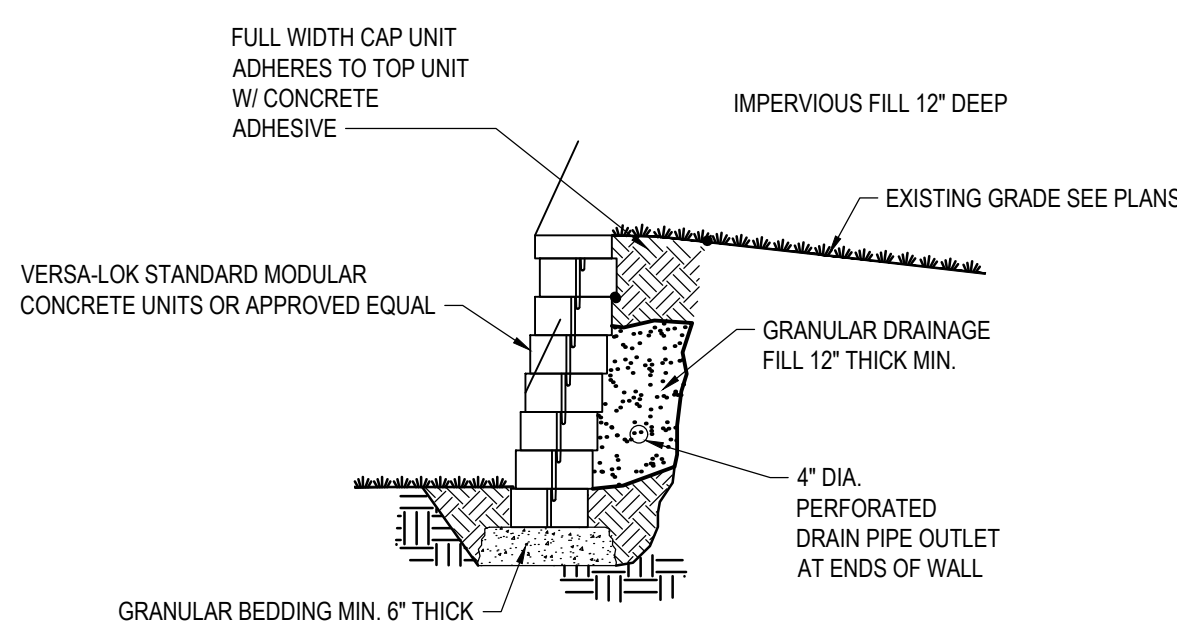
**City of Lee's Summit, MO
Water Utilities Facility & Parking
Lot Expansion**

CIVIL DETAILS

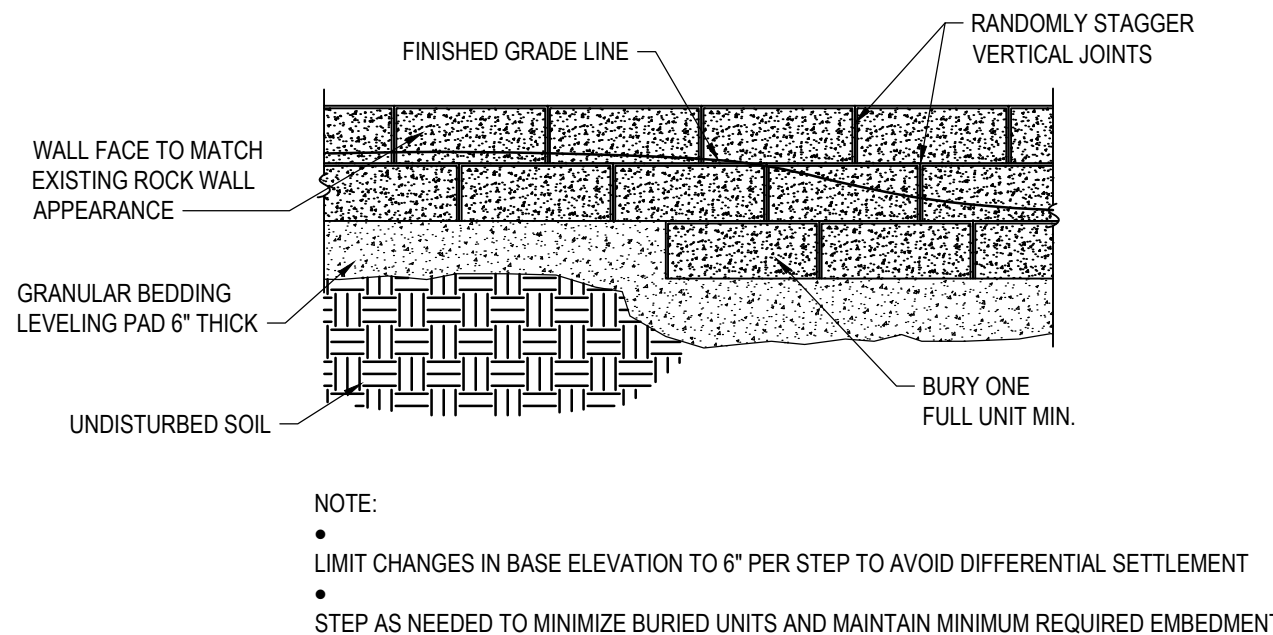
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SCALE | -----

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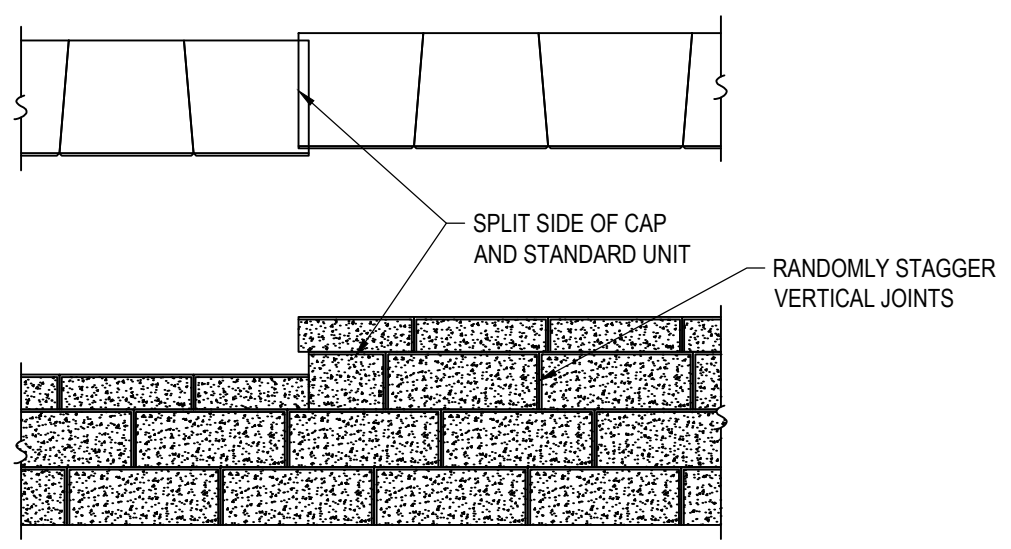




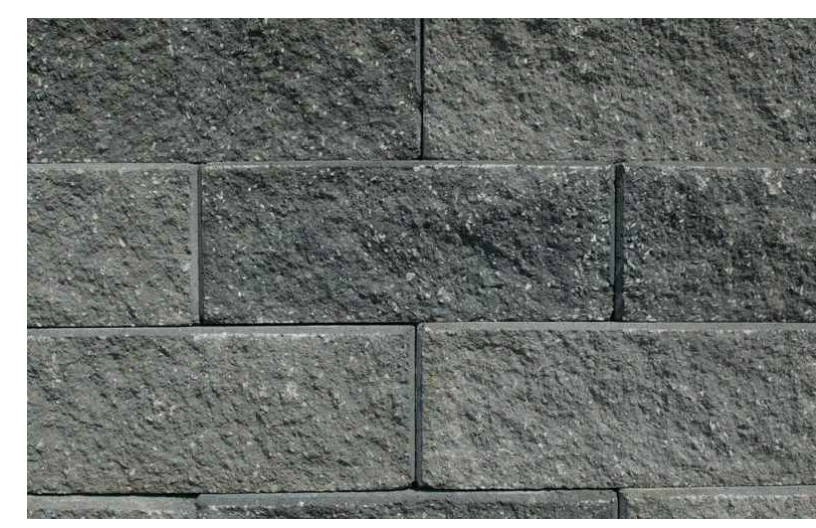
TYPICAL SECTION-UNREINFORCED RETAINING WALL



STEPPING BASE DETAIL

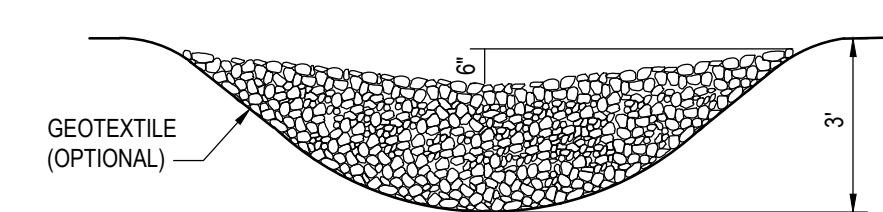


CAPPING DETAIL-PROFILE

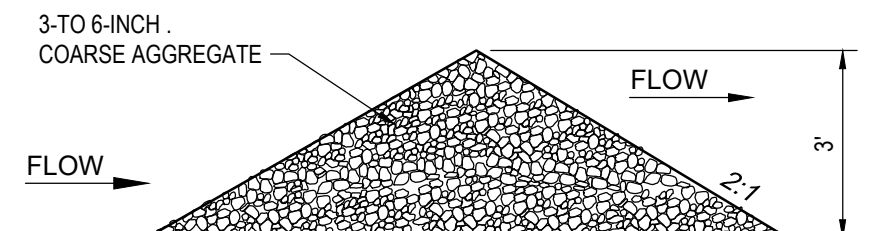


MATERIAL/COLOR-CHARCOAL BLEND

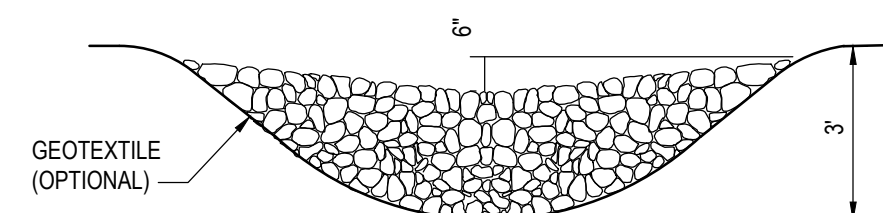
1 MODULAR BLOCK RETAILING WALL DETAIL
NTS



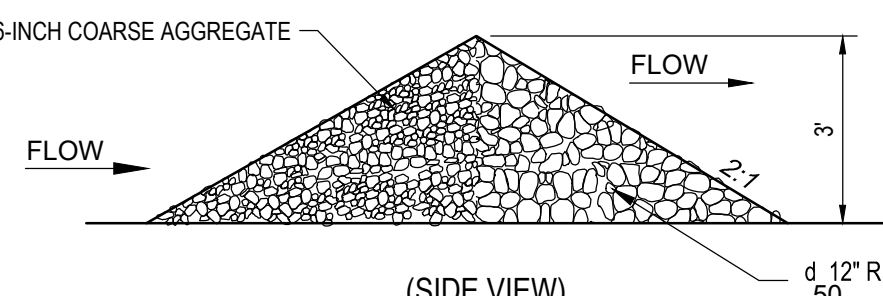
ROCK CHECK DAM
2 ACRES OR LESS OF DRAINAGE AREA



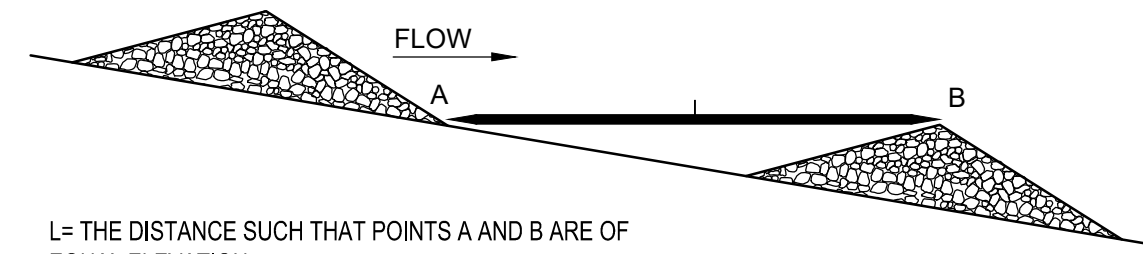
(SIDE VIEW)



ROCK CHECK DAM
2-10 ACRES OF DRAINAGE AREA



(SIDE VIEW)



L= THE DISTANCE SUCH THAT POINTS A AND B ARE OF
EQUAL ELEVATION.

SPACING BETWEEN CHECK DAMS

ROCK CHECK DAM NOTES:

- A) CONSTRUCTION SPECIFICATIONS & INSTALLATION:
1. THE DRAINAGE AREA OF THE DITCH OR SWALE BEING PROTECTED SHALL NOT EXCEED 2 ACRES WHEN A COARSE AGGREGATE IS USED ALONE AND SHALL NOT EXCEED 10 ACRES WHEN A COMBINATION OF CLASS I RIPRAP AND COARSE AGGREGATE IS USED. AN EFFORT SHOULD BE MADE TO EXTEND THE STONE TO THE TOP OF CHANNEL BANKS.
 2. THE MAXIMUM HEIGHT OF THE DAM SHALL BE 3 FEET. THE CENTER OF THE CHECK DAM IS AT THE SAME ELEVATION AS THE TOP OF THE OUTER EDGES.
 3. FOR ADDED STABILITY, THE BASE OF THE CHECK DAM CAN BE KEYED INTO THE SOIL APPROXIMATELY 6 INCHES.
 4. THE MAXIMUM SPACING BETWEEN DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
 5. STONE SHOULD BE PLACED ACCORDING TO THE CONFIGURATION TO THE LEFT. HAND OR MECHANICAL PLACEMENT WILL BE NECESSARY TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO INSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
 6. GEOTEXTILE MAY BE USED UNDER THE STONE TO PROVIDE A STABLE FOUNDATION AND TO FACILITATE REMOVAL OF THE STONE.

B) INSPECTION AND MAINTENANCE:

1. CHECK DAMS SHOULD BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH STORM EVENT OF 1/2-INCH OR GREATER. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE HALF OF THE ORIGINAL HEIGHT OF THE DAM.
2. REGULAR INSPECTIONS SHOULD BE MADE TO ENSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES. EROSION CAUSED BY HIGH FLOWS AROUND THE EDGES OF THE DAM SHALL BE CORRECTED.

C) REMOVAL OF PRACTICE:

1. UNLESS THEY ARE TO BE PERMANENT, CHECK DAMS MUST BE REMOVED WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED. IN TEMPORARY DITCHES AND SWALES, CHECK DAMS SHOULD BE REMOVED AND THE DITCH FILLED WHEN THEY ARE NO LONGER NEEDED. IN PERMANENT STRUCTURES, CHECK DAMS SHOULD BE REMOVED WHEN A PERMANENT LINING CAN BE INSTALLED. IN THE CASE OF GRASS-LINED DITCHES, CHECK DAMS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE. THE AREA BENEATH THE CHECK DAMS SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER THEY ARE REMOVED. THE USE OF FILTER CLOTH UNDERNEATH THE STONE WILL MAKE REMOVAL OF THE STONE EASIER.

2 ROCK DITCH CHECK INSTALLATION
NTS

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1	04/18/2025	FDP WITH CITY COMMENTS INCORPORATED
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PROJECT MANAGER	K. PRINDS
CIVIL	M. WIEBELHAUS
ARCHITECTURAL	E. BUTTMAN
MECHANICAL	M. WARRICK
PROJECT NUMBER	10417754



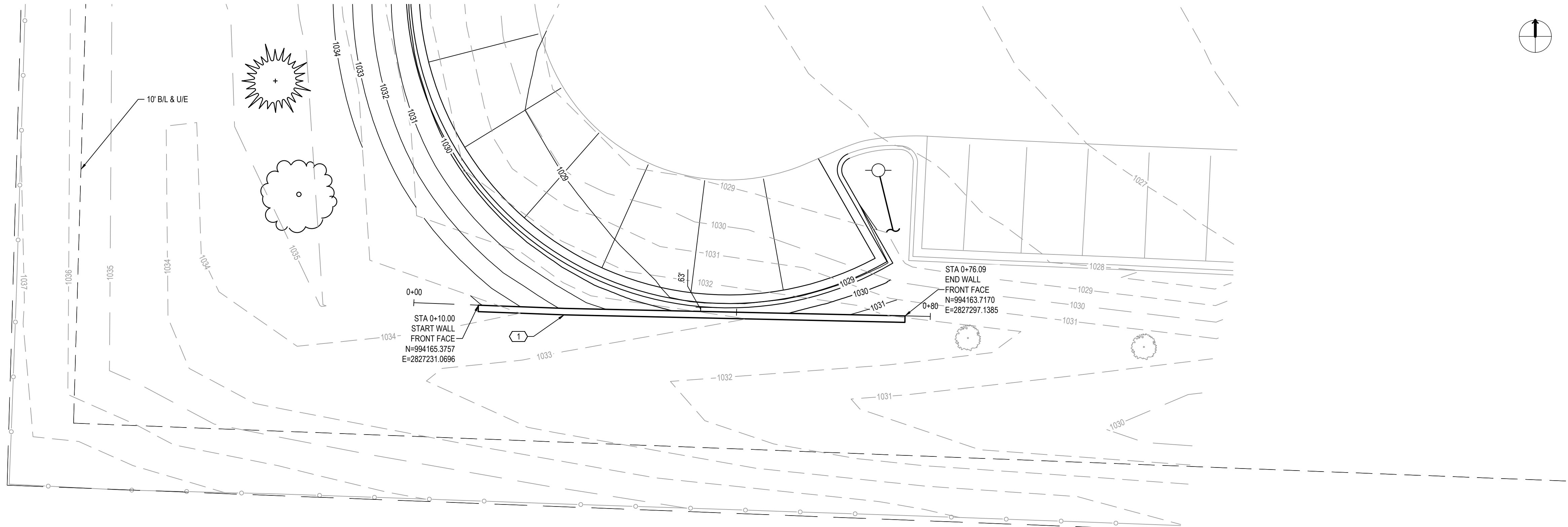
City of Lee's Summit, MO
Water Utilities Facility & Parking
Lot Expansion

CIVIL DETAILS

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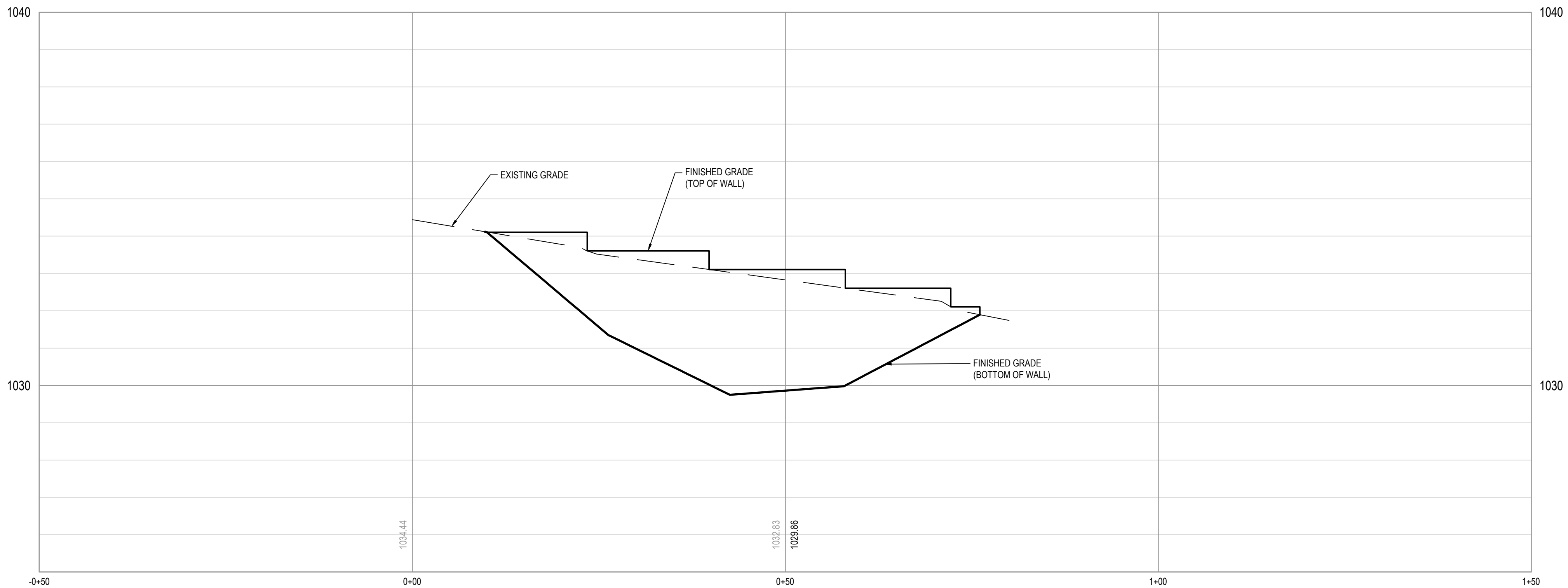
SHEET #
01C502

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PLAN

1" = 10'



PROFILE

1" = 10'

GENERAL NOTES

1. SPLIT FACE MODULAR CONCRETE BLOCK WALL.

KEYNOTES <#>

1. MODULAR BLOCK WALL. WALL WIDTH AND BATTER TO MEET MANUFACTURES RECOMMENDATIONS (RE: 1/00CS02).



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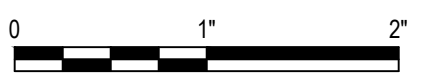
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City of Lee's Summit, MO
Water Utilities Facility & Parking
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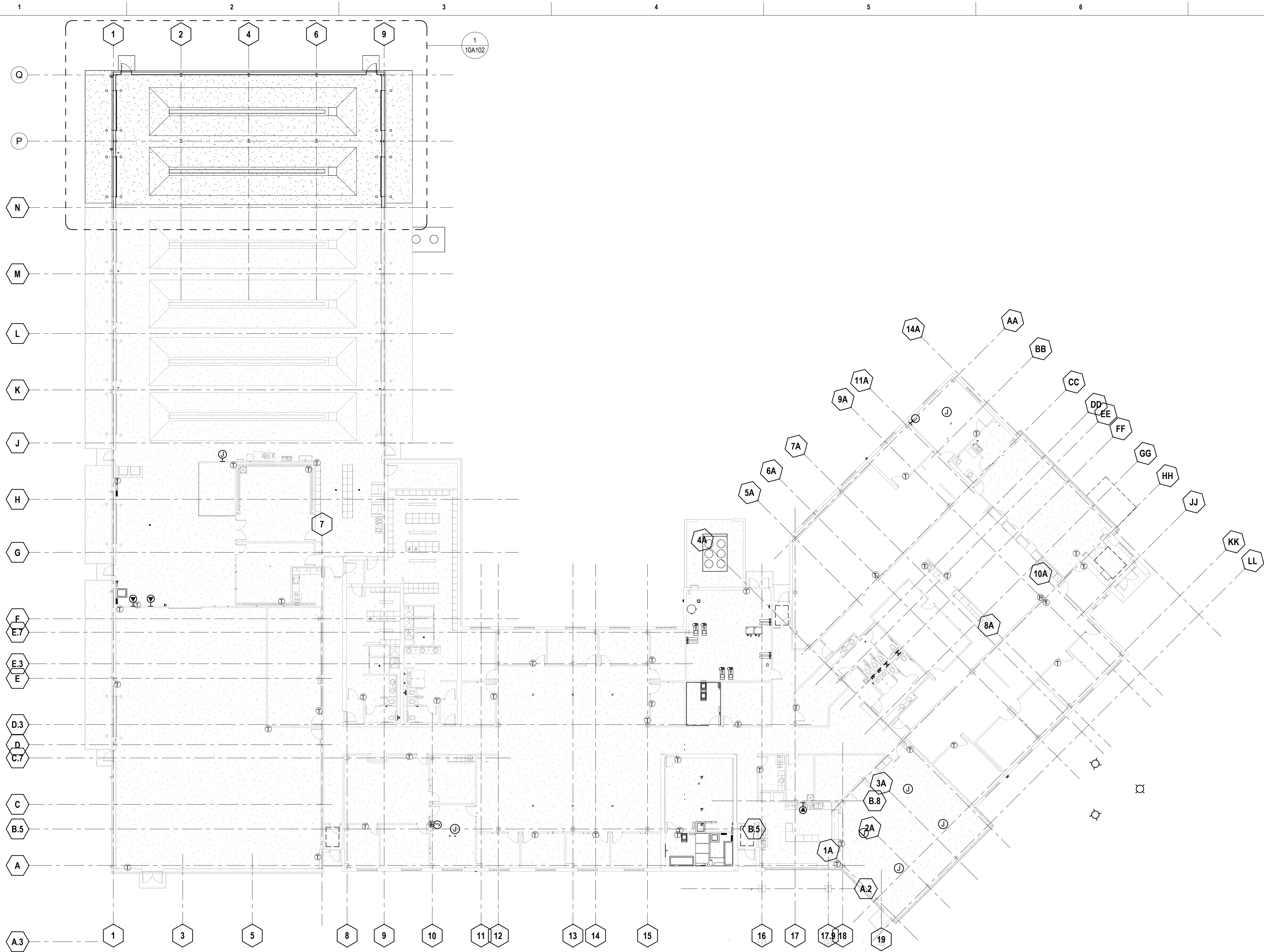
RETAINING WALL PROFILE

FILE NAME 10417754-01C-801.DWG
SCALE 1"=10'



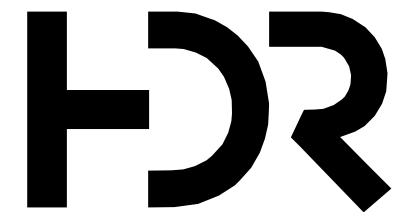
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GENERAL NOTES

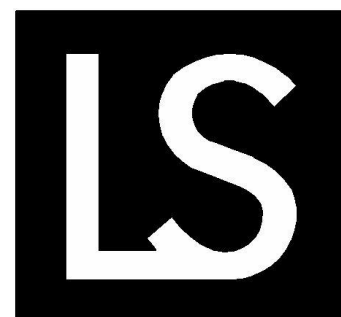
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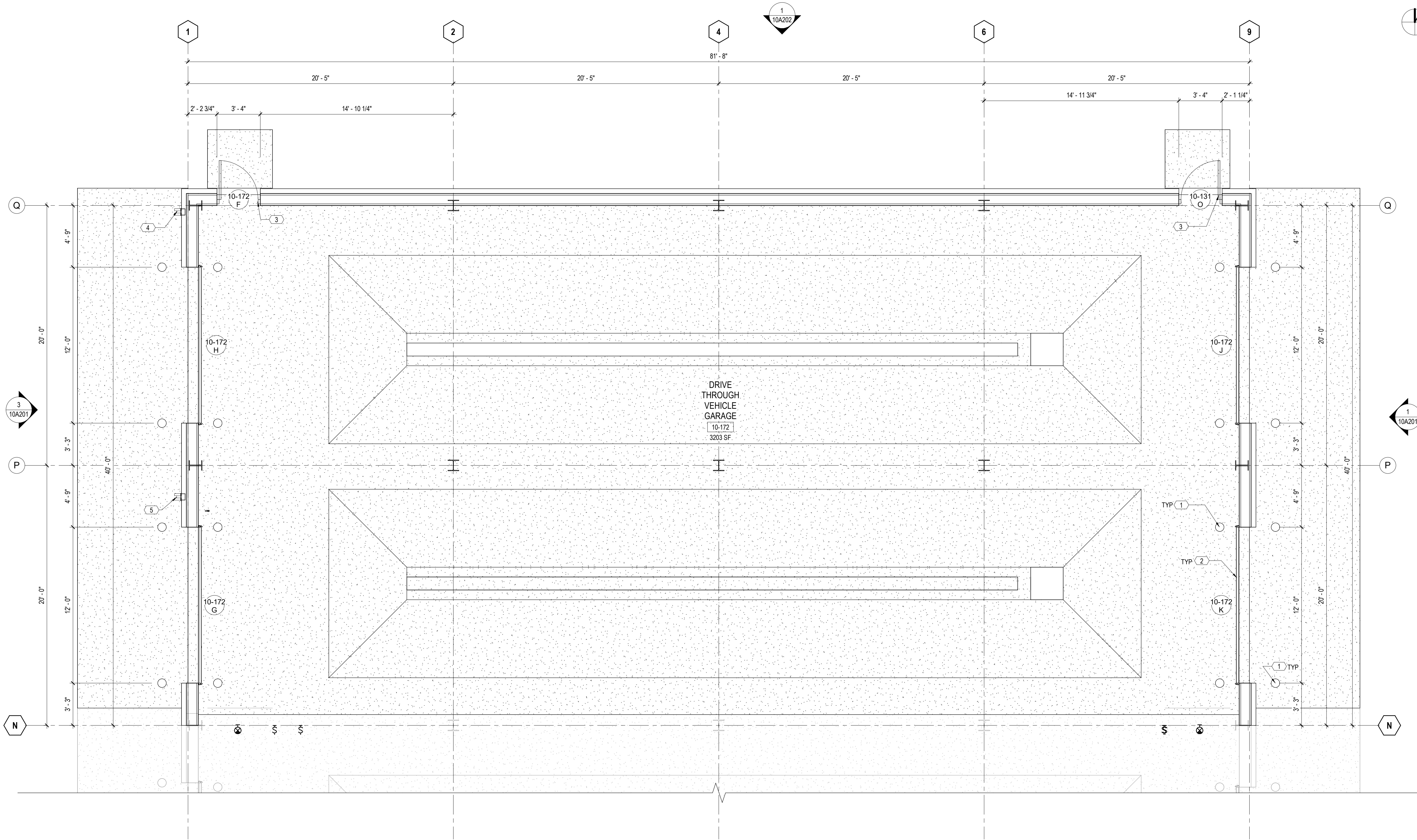
City of Lee's Summit, MO
Water Utilities Facility & Parking Lot
Expansion

ARCHITECTURE OVERALL PLAN (FUTURE BY OTHERS)

FILE NAME
SCALE 1/16" = 1'-0"
0 1" 2"

SHEET
10A101

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1 FIRST FLOOR - ENLARGED PLAN
1/4" = 1'-0"

GENERAL NOTES

1. INFORMATION SHOWN IS PRELIMINARY AND IS NOT FOR CONSTRUCTION.
2. ALL DIMENSIONS ARE TO EDGE OF OPENING, TO COLUMN CENTERLINE, OR TO GRIDLINE.

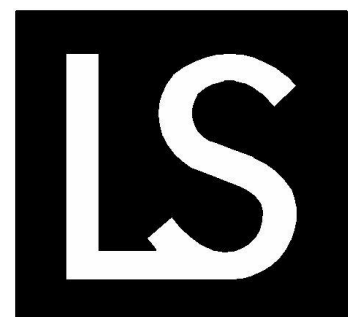
KEYNOTES ##

1. BOLLARD. HEIGHT AND SIZE TO MATCH EXISTING.
2. OVERHEAD SECTIONAL DOOR. COLOR, SIZE, AND STYLE TO MATCH EXISTING.
3. REINSTALL SALVAGED EXISTING DOOR AND FRAME.
4. DOWNSPOUT. SIZE, FINISH, AND STYLE TO MATCH EXISTING.
5. REINSTALL SALVAGED EXISTING DOWNSPOUT.



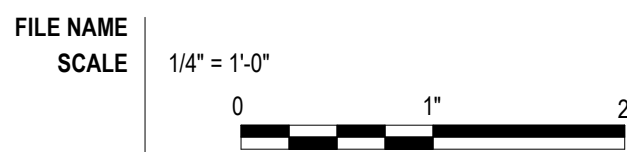
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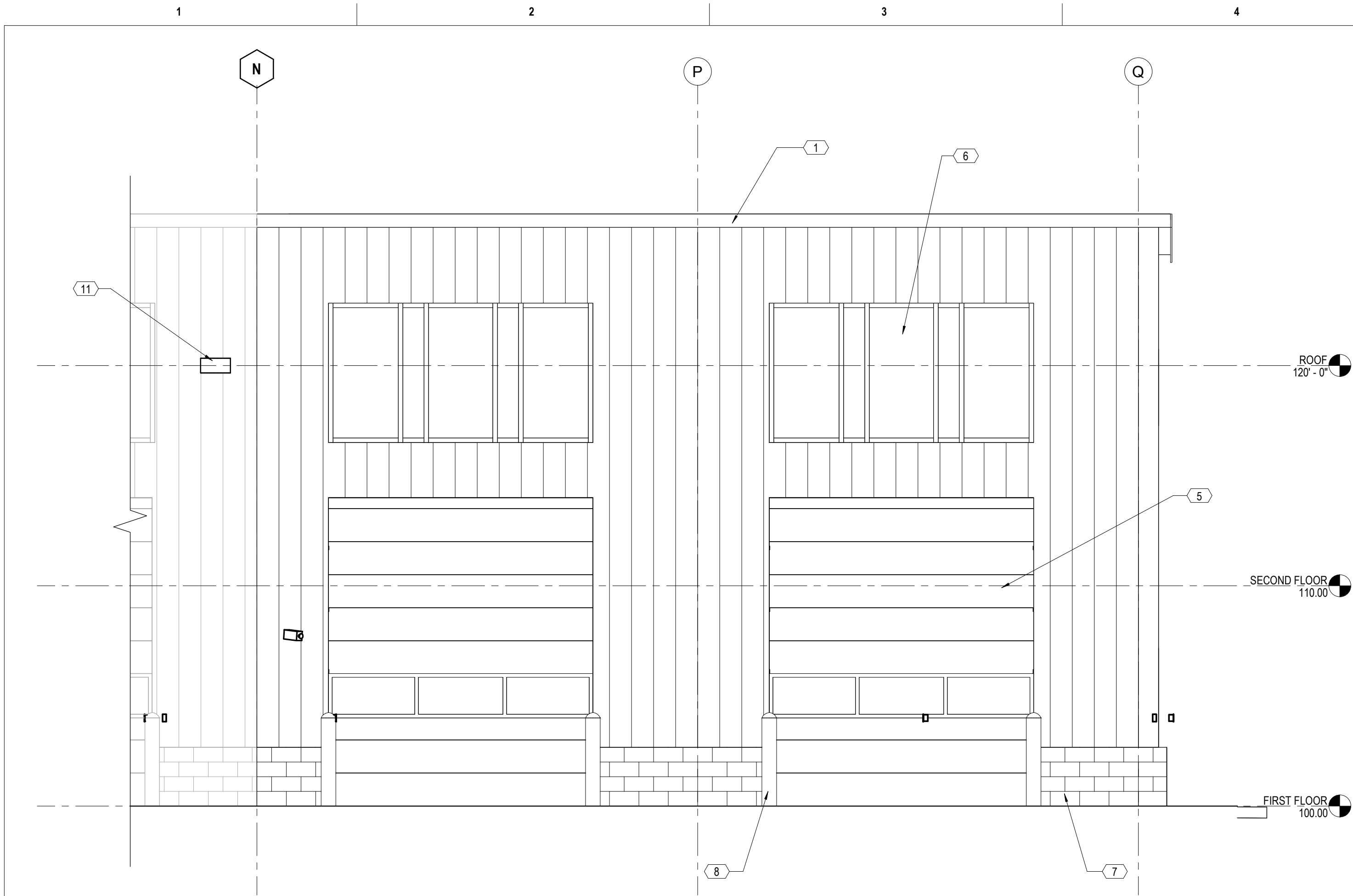
**City of Lee's Summit, MO
Water Utilities Facility & Parking Lot
Expansion**

**ARCHITECTURE PLAN
(FUTURE BY OTHERS)**

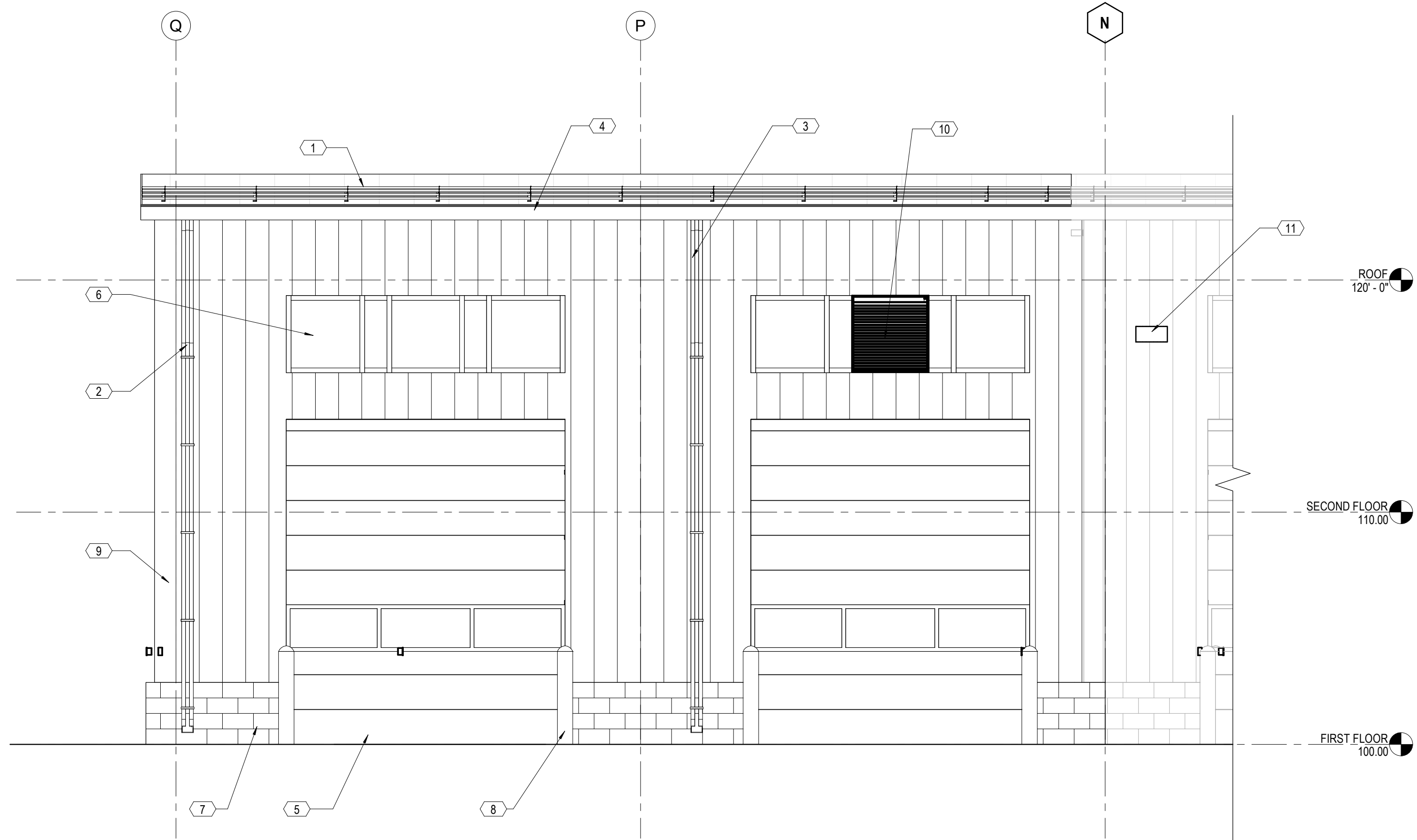


SHEET
10A102

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1 EAST ELEVATION
10A102 1/4" = 1'-0"



3 WEST ELEVATION
10A102 1/4" = 1'-0"

GENERAL NOTES

1. INFORMATION SHOWN IS PRELIMINARY AND IS NOT FOR CONSTRUCTION.

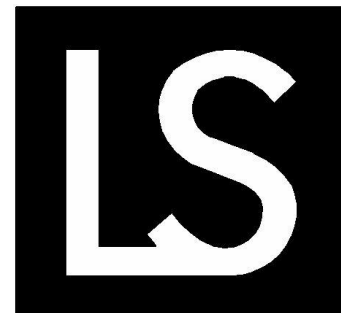
KEYNOTES

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.
4. EXTEND GUTTER. PROFILE AND COLOR TO MATCH EXISTING.
5. 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.



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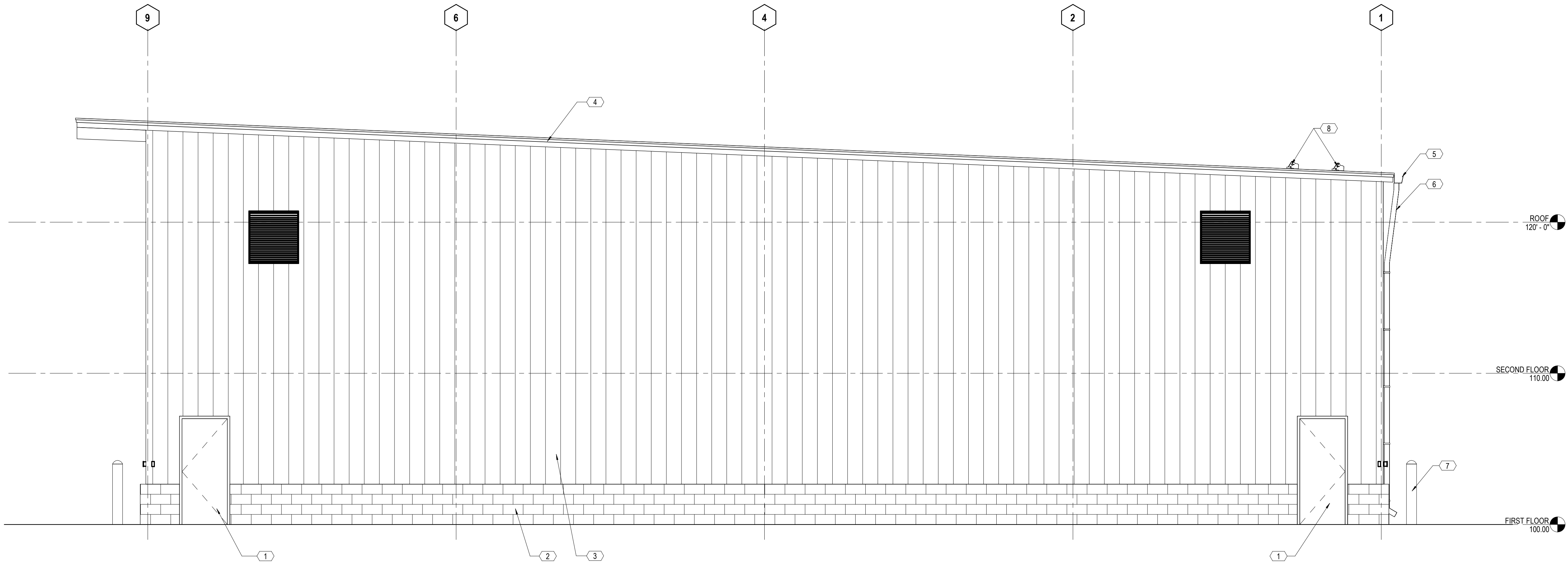
City of Lee's Summit, MO
Water Utilities Facility & Parking Lot
Expansion

ARCHITECTURE EXTERIOR ELEVATIONS
(FUTURE BY OTHERS)

FILE NAME
SCALE 1/4" = 1'-0"
0 1" 2"

SHEET
10A201

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1 NORTH ELEVATION
10A102 1/4" = 1'-0"

GENERAL NOTES

1. INFORMATION SHOWN IS PRELIMINARY AND IS NOT FOR CONSTRUCTION.

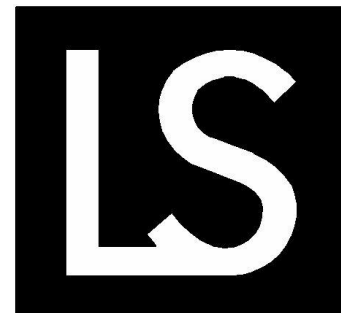
KEYNOTES

- 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.



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PROJECT NUMBER	10417754



City of Lee's Summit, MO
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ARCHITECTURE EXTERIOR ELEVATIONS
(FUTURE BY OTHERS)

FILE NAME
SCALE 1/4" = 1'-0"
0 1" 2"

SHEET
10A202