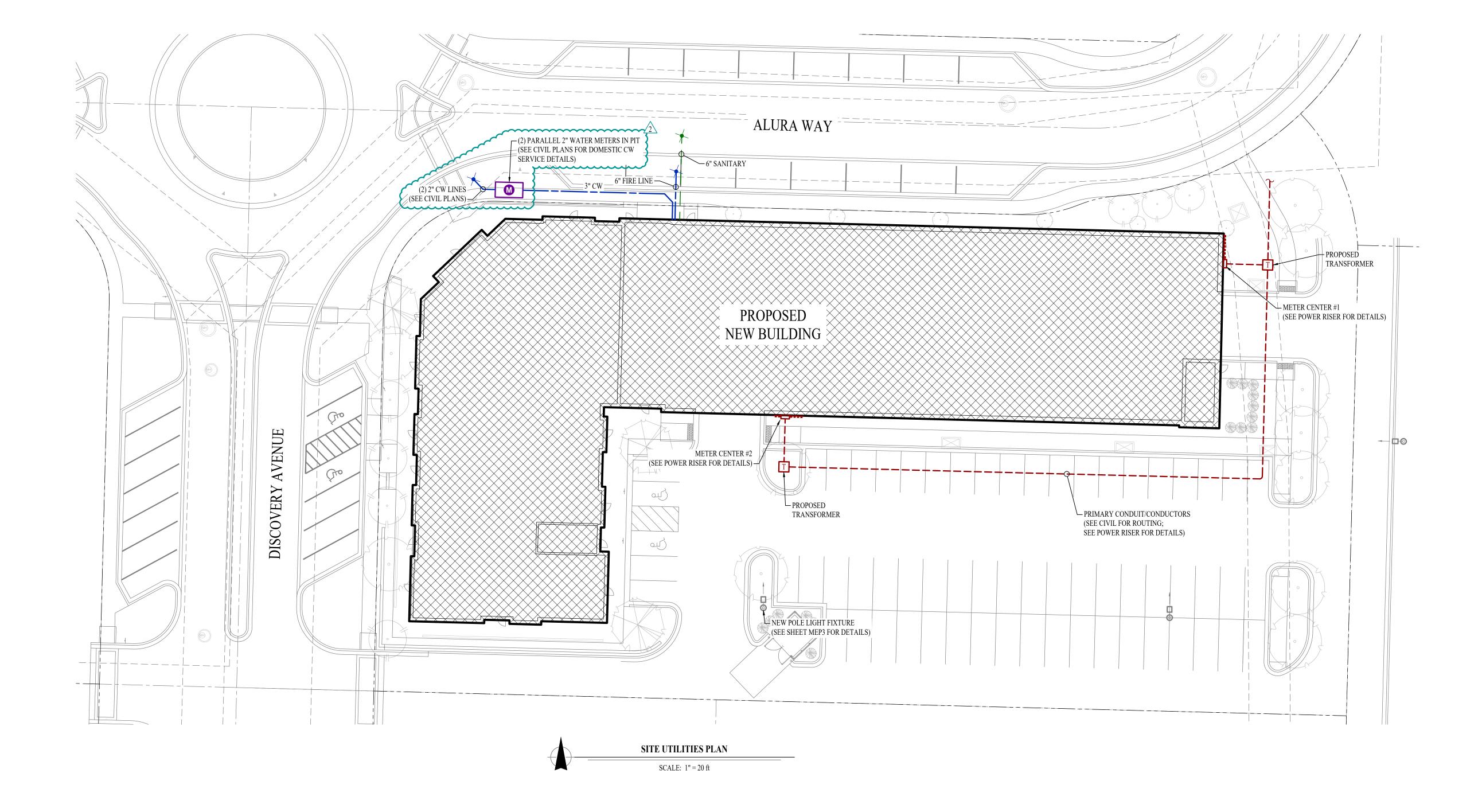
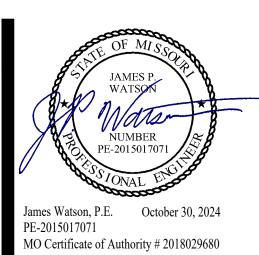
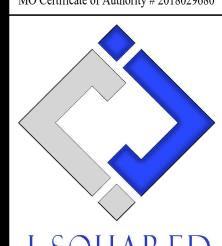


SITE UTILITIES PLAN GENERAL NOTES:

REFER TO CIVIL PLANS FOR EXACT UTILITY LOCATIONS, CONNECTIONS, DETAILS, ETC.
COORDINATE EXACT LOCATIONS OF ALL ELECTRICAL CONDUITS & EQUIPMENT WITH EVERGY.







2400 Bluff Creek Drive, Suite 101 Columbia, Missouri 65201 573 - 234 - 4492 phone www.j-squaredeng.com

J2 PROJECT No:	J21007
J2 DESIGN:	JAP
ISSUE TITLE	DATE
CITY SUBMITTAL	01 / 25 / 2024
REVISION 2	10 / 30 / 2024

0 **Discovery**

Village

SHEET TITLE

SITE UTILITIES **PLAN**

SHEET NUMBER

PLUMBING SPECIFICATIONS

1. GENERAL

1.1. PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ESCUTCHEONS, ¼ TURN STOPS, P-TRAPS, AND SUPPLY LINES TO PROVIDE A COMPLETE SYSTEM AT EACH FIXTURE INDICATED ON PLANS UNLESS NOTED OTHERWISE.

2. SANITARY 2.1. BELOW AND ABOVE GRADE WASTE AND VENT PIPING IN BUILDING TO BE SOLID CORE SCH.

40 PVC DWV.

NO PIPE SMALLER THAN 2" BELOW GRADE.

WASTE AND VENT PIPING IN PLENUMS TO BE CAST IRON, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.

ALL VENT PIPE TERMINATIONS ARE TO BE LOCATED EITHER 10' HORIZONTALLY OR 3' ABOVE MECHANICAL AIR INTAKE LOCATIONS.

3. DOMESTIC WATER DOMESTIC WATER PIPING TO BE EITHER COPPER OR PEX. WHERE PEX PIPING IS USED, IT

SHALL BE INCREASED ONE PIPE SIZE FROM WHAT IS INDICATED ON PLANS FOR ALL PORTIONS OF THE SYSTEM. PEX-A MAY BE INSTALLED AT SIZES INDICATED ON PLANS IF AN ENGINEERED PLAN IS

MUST BE GRANTED PRIOR TO PURCHASE AND INSTALLATION. COPPER WATER PIPING BELOW GRADE SHALL BE TYPE "K". BELOW GRADE JOINTS SHALL BE

SUBMITTED SHOWING ACCEPTABLE PRESSURE DROPS AND FLUID VELOCITIES, APPROVAL

SILVER SOLDERED. THERE SHALL BE NO JOINTS IN WATER PIPING LOCATED BENEATH BUILDING SLAB.

COPPER WATER PIPING ABOVE GRADE SHALL BE TYPE "L".

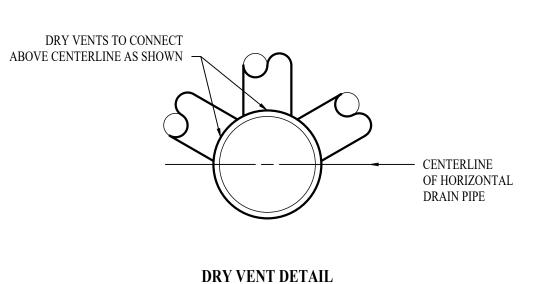
PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK-CLOSE VALVES. FIXTURES REQUIRING WATER HAMMER ARRESTORS INCLUDE BUT ARE NOT LIMITED TO FLUSH VALVES, SENSOR FAUCETS, AND WASHING MACHINE BOXES. AIR CHAMBERS ARE NOT ACCEPTABLE.

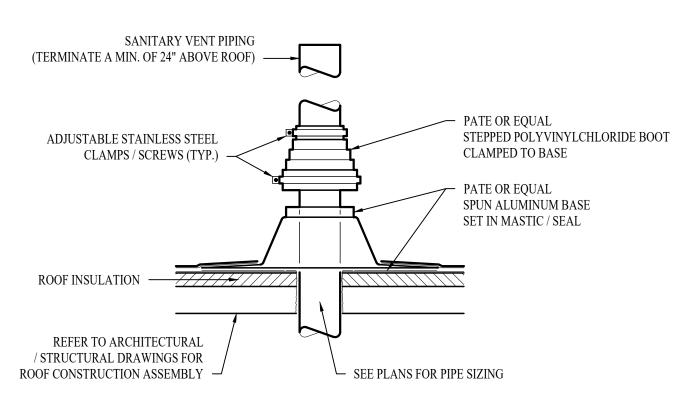
ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN THERMAL ENVELOPE AND WITHIN WALL CAVITIES, ABOVE FINISHED CEILINGS, OR BELOW SLAB TO REMAIN CONCEALED UNLESS OTHERWISE NOTED. NOTIFY ENGINEER OF ANY NECESSARY ADJUSTMENTS THAT REQUIRE PIPING TO BE EXPOSED.

DOMESTIC WATER PIPING INSULATION

ALL HW PIPING, WHETHER COPPER OR PEX, SHALL BE INSULATED WITH PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. FOR PIPING LESS THAN 1½", INSULATION THICKNESS TO BE 1". FOR PIPING 1½" OR GREATER, INSULATION THICKNESS SHALL BE 1½".

CW COPPER PIPING TO INSULATED WITH ½" PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. CW PEX NEED NOT BE INSULATED UNLESS NOTED





SANITARY	VENT	THRII	ROOF	DETAII
SAMITAKI	ATAIAT	HINU	KOOF	DETAIL

PLUMBING CONNECTION SIZING SCHEDULE					
FIXTURE		SANITAR	RYPIPING	SUPPLYPIPING	
ТУРЕ	TYPICAL ABBREVIATION	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	-
FLOOR DRAIN	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	HB	-	-	3/4"	-
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF		-	1/2"	-
SHOWER	SH	3"	1-1/2"	1/2"	1/2"
URINAL	UR	2"	1-1/4"	3/4"	-
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	-
WATER CLOSET (FLUSH VALVE)	WC	3"	2"	1"	-
NOTES:					

HEAT TRAP

WATER

HEATER

WATER HEATER DETAIL

─ WATER HEATER PAN

24 GA. (MINIMUM), 1 ½" DEEP (MINIMUM)

PRESSURE TEMPERATURE RELIEF VALVE

RELIEF DISCHARGE PIPE —

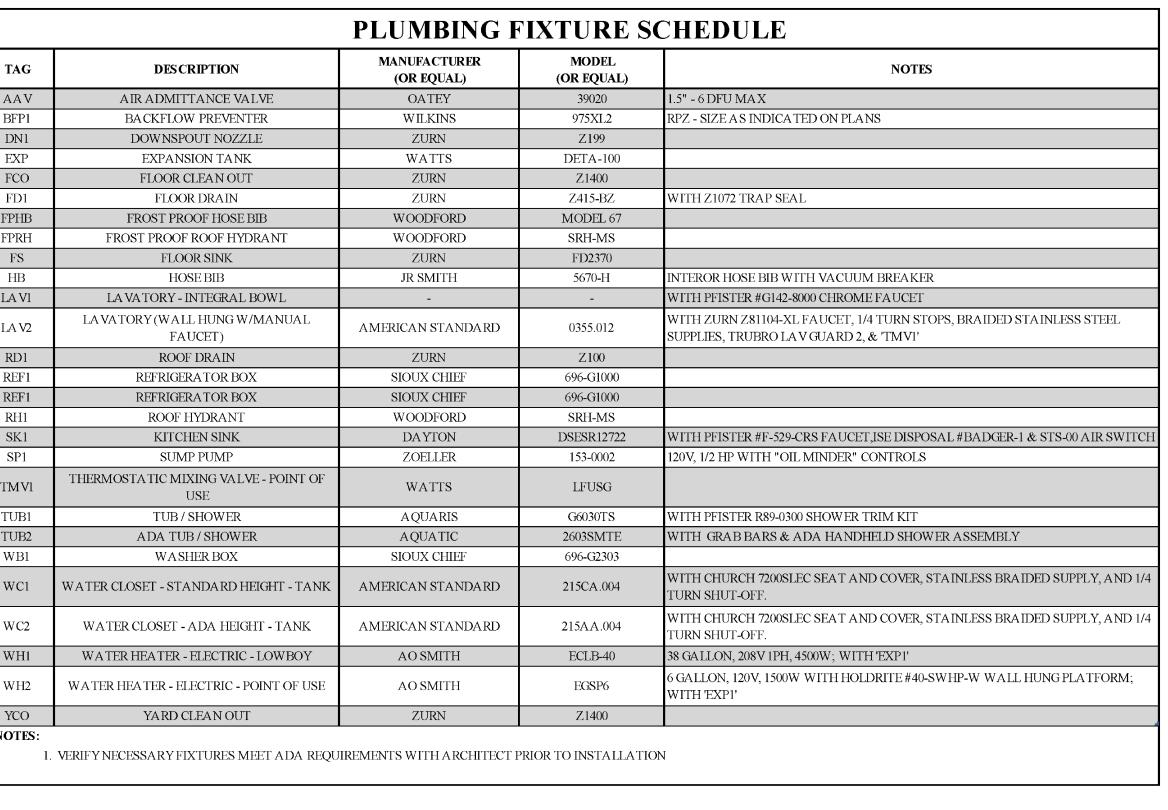
DISCHARGE PIPE INTO

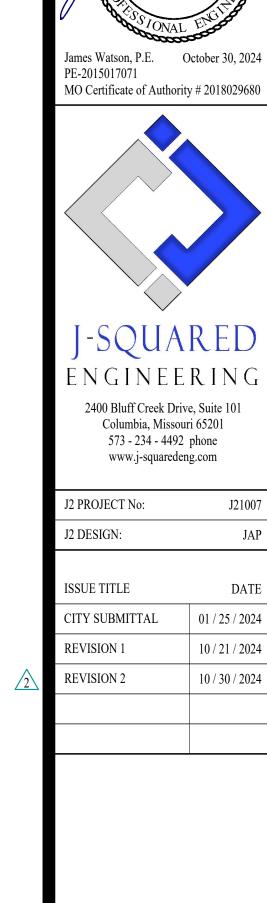
INDIRECT CONNECTION

AT FLOOR DRAIN -

PLUM	BING CON	NECTION S	IZING SCHI	EDULE	
FIXTURE		SANITAR	YPIPING	SUPPLY	PIPING
ТҰРЕ	TYPICAL ABBREVIATION	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	-
FLOOR DRAIN	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	HB	1	-	3/4"	-
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF	.=-1	-	1/2"	=
SHOWER	SH	3"	1-1/2"	1/2"	1/2"
URINAL	UR	2"	1-1/4"	3/4"	-
ATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	=
ATER CLOSET (FLUSH VALVE)	WC	3"	2"	1"	-
OTES: SIZES SHOWN ABOVE ARE TYPIO	CAL UNLESS NOTEI	OTHERWISE ON P	LANS		

TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES
AAV	AIR ADMITTANCE VALVE	OATEY	39020	1.5" - 6 DFU MAX
BFP1	BACKFLOW PREVENTER	WILKINS	975XL2	RPZ - SIZE AS INDICATED ON PLANS
DN1	DOWNSPOUT NOZZLE	ZURN	Z199	
EXP	EXPANSION TANK	WATTS	DETA-100	
FCO	FLOOR CLEAN OUT	ZURN	Z1400	
FD1	FLOOR DRAIN	ZURN	Z415-BZ	WITH Z1072 TRAP SEAL
FPHB	FROST PROOF HOSE BIB	WOODFORD	MODEL 67	
FPRH	FROST PROOF ROOF HYDRANT	WOODFORD	SRH-MS	
FS	FLOOR SINK	ZURN	FD2370	
HB	HOSE BIB	JR SMITH	5670-Н	INTEROR HOSE BIB WITH VACUUM BREAKER
LA V1	LA VA TORY - INTEGRAL BOWL	-	-	WITH PFISTER #G142-8000 CHROME FAUCET
LA V2	LA VA TORY (WALL HUNG W/MANUAL FAUCET)	AMERICAN STANDARD	0355.012	WITH ZURN Z81104-XL FAUCET, 1/4 TURN STOPS, BRAIDED STAINLESS STEEL SUPPLIES, TRUBRO LAV GUARD 2, & 'TMV1'
RD1	ROOF DRAIN	ZURN	Z100	
REF1	REFRIGERA TOR BOX	SIOUX CHIEF	696-G1000	
REF1	REFRIGERA TOR BOX	SIOUX CHIEF	696-G1000	
RH1	ROOF HYDRANT	WOODFORD	SRH-MS	
SK1	KITCHEN SINK	DAYTON	DSESR12722	WITH PFISTER #F-529-CRS FAUCET,ISE DISPOSAL #BADGER-1 & STS-00 AIR SWITCH
SP1	SUMP PUMP	ZOELLER	153-0002	120V, 1/2 HP WITH "OIL MINDER" CONTROLS
TMV1	THERMOSTATIC MIXING VALVE - POINT OF USE	WATTS	LFUSG	
TUB1	TUB / SHOWER	AQUARIS	G6030TS	WITH PFISTER R89-0300 SHOWER TRIM KIT
TUB2	ADA TUB / SHOWER	AQUATIC	2603SMTE	WITH GRABBARS & ADA HANDHELD SHOWER ASSEMBLY
WB1	WA SHER BOX	SIOUX CHIEF	696-G2303	
WC1	WATER CLOSET - STANDARD HEIGHT - TANK	AMERICAN STANDARD	215CA.004	WITH CHURCH 7200SLEC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.
WC2	WATER CLOSET - ADA HEIGHT - TANK	AMERICAN STANDARD	215AA.004	WITH CHURCH 7200SLEC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.
WH1	WATER HEATER - ELECTRIC - LOWBOY	AO SMITH	ECLB-40	38 GALLON, 208V 1PH, 4500W; WITH 'EXP1'
WH2	WATER HEATER - ELECTRIC - POINT OF USE	AO SMITH	EGSP6	6 GALLON, 120V, 1500W WITH HOLDRITE #40-SWHP-W WALL HUNG PLATFORM; WITH 'EXP1'
YCO	YARD CLEAN OUT	ZURN	Z1400	
NOTES: 1.	VERIFY NECESSARY FIXTURES MEET ADA REQU	IREMENTS WITH ARCHITECT I	PRIOR TO INSTALLATIO	NON THE RESERVE OF TH





J21007

DATE

01 / 25 / 2024

10 / 21 / 2024

10 / 30 / 2024

Discover

illage

SHEET TITLE

SHEET NUMBER

PLUMBING DETAILS

& SCHEDULES

RELEASED FOR CONSTRUCTION As Noted on Plans Review

Lee's Summit, Missouri 10/31/2024

