

PLUMBING FIXTURE SCHEDULE 1		
MARK	DESCRIPTION	REMARKS
CO-1	CLEANOUT (FLOOR) ZURN MODEL NO. ZN1400-BP WITH NICKEL BRONZE TOP AND BRONZE PLUG. PROVIDE -CM CARPET CLEANOUT MARKER WHERE IN CARPET	
CO-2	CLEANOUT (WALL) ZURN MODEL NO. Z1441-BP-VP WALL CLEANOUT OR Z1446-BP-VP WALL CLEANOUT TEE TO SUIT APPLICATION, VANDAL PROOF SECURED TOP, SMOOTH ST STL ROUND ACCESS COVER	
CO-3	CLEANOUT (GRADE) ZURN MODEL NO. Z1449-BP CLEANOUT FERRULE WITH BRONZE PLUG AT GRADE, WHERE IN PAVING PROVIDE WITH ZURN MODEL NO. ZN1474-G-VP HEAVY DUTY CLEANOUT HOUSING WITH INTEGRAL ANCHOR FLANGE, SECURED SCORATED NICKEL BRONZE COVER WITH LIFTING DEVICE AND VANDAL-PROOF SCREW	
DN	DOWNSPOUT NOZZLE ZURN MODEL Z-199 CAST BRONZE BODY AND FLANGE	MOUNT 12" ABOVE GRADE AND PROVIDE SPLASH BLOCK
EM-1	EMERGENCY SHOWER/EYEWASH BRADLEY S193148F SHOWER HEAD SHALL BE 10" ABS PLASTIC IN YELLOW. PULL DOWN SHALL BE RIGID STAINLESS STEEL PULL ROD WITH TRIANGULAR HANDLE LOCATED ABOVE FLOOR EYEWASH SHALL INCLUDE A STAINLESS STEEL BOWL WITH TWIN ABS EYEWASH HEADS WITH POP-OFF COVERS AND SHALL BE OPERATED BY A PUSH HANDLE. OPERATING VALVES SHALL BE INSTANT ACTION BALL TYPE THAT REMAIN OPEN UNTIL MANUALLY CLOSED. PROVIDE MODEL S19-866 20 GPM NICKEL-PLATED BRASS FLOW CONTROL VALVE. PROVIDE A WALL BRACE MOUNTED AS CLOSE TO SHOWER HEAD AS POSSIBLE FOR RIGIDITY. UNIT SHALL MEET ANSI Z358.1 AND O.S.H.A. STANDARDS	
EWC-1	OWNER PROVIDED - ELECTRIC WATER COOLER (BI-LEVEL ACCESSIBLE) ELKAY MODEL NO. LZ21L8WSLP BARRIER-FREE BI-LEVEL WATER COOLER ***** WITH BOTTLE FILLER ***** SELF-CLOSING EASY-TOUCH CONTROLS ON FRONT AND BOTH SIDES. FLEXIBLE GUARD BUBBLERS, STAINLESS STEEL ANTI-SPLASH TOP DESIGN, STANDARD LIGHT GRAY POWDERCOAT OVER GALVANIZED STEEL FINISH CABINET PROVIDE ELKAY CARRIER MODEL NO. MLP200 FOR FIXTURE SUPPORT PROVIDE MCGUIRE NO. 8910C P-TRAP AND BALL VALVE ON COLD WATER LINE WITHIN CABINET. PROVIDE CANE DETECTION APRON LKAPREZL AT UPPER UNIT WHEN COOLER NOT LOCATED WITHIN ACCESSIBLE ALCOVE	30" AFF TO UPPER SPOUT 26" AFF TO LOWER SPOUT
FD-1	FLOOR DRAIN ZURN MODEL NO. ZN415B DURA-COATED CAST IRON DRAIN WITH BOTTOM OUTLET, COMBINATION INVERTABLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, "TYPE B" POLISHED NICKEL BRONZE LIGHT-DUTY STRAINER, TRAP PRIMER	
FD-2	FLOOR DRAIN WITH RAISED FLANGE STRAINER - RECESSED ZURN MODEL NO. ZN415I DURA-COATED CAST IRON DRAIN WITH BOTTOM OUTLET, COMBINATION INVERTABLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, "TYPE I" POLISHED NICKEL BRONZE STRAINER WITH RAISED FLANGE - SET FOR USE AS RECESSED DRAIN WITH TOP OF FLANGE SET FLUSH WITH FINISH FLOOR, TRAP PRIMER	
FD-2A	PVC HUB DRAIN FOR AHU CONDENSATE 4 X 2, 4 X 3, OR 6 X 4 SCHED. 40 SOLID WALL PVC REDUCING COUPLING SET AS HUB DRAIN ABOVE FINISH FLOOR - COORDINATE HEIGHT WITH AHU CONDENSATE PIPING IN FIELD - CONFIRM CONDENSATE DRAIN PIPE SIZES AT PLAN TO DETERMINE COUPLING SIZES NEEDED	
HB-1	WALL HYDRANTS - INTERIOR/ENCASED ZURN Z1350 ENCASED MODERATE CLIMATE WALL HYDRANT FOR FLUSH INSTALLATION IN NARROW WALL. BRONZE BODY, ALL BRONZE INTERNAL PARTS. REPLACEABLE SEAT WASHER. SCREWDRIWER OPERATED STOP VALVE IN SUPPLY KEY OPERATED CONTROL VALVE. 3/4" IP FEMALE INLET, 3/4" MALE HOSE CONNECTION. ADJUSTABLE ST STL BOX AND HINGED COVER WITH CYLINDER LOCK AND "WATER" STAMPED ONTO COVER	MOUNT 12" AFF
HB-2	FREEZELESS WALL HYDRANT EXTERIOR/ENCASED ZURN Z1300 ENCASED ECLOTROL ANTI-SIPHON AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION, NON-FREEZE INTEGRAL BACKFLOW PREVENTER, BRONZE CASING, ALL BRONZE INTERNAL PARTS. NON-TURNING OPERATING RODS WITH FREEZE RATINGS COMPRESSION CLOSURE VALVES, REPLACEABLE BRONZE SEAT AND SEAT WASHER, AND COMBINATION 3/4" FEMALE OR 1" MALE STRAIGHT IP INLET, NICKEL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK AND "WATER" CAST ONTO COVER	MOUNT 24" AFG
HB-3	WALL HYDRANTS - INTERIOR/FACILITIES WOODFORD MODEL NO. 24 HYDRANT/HOSE BIBB, CHROME PLATED BRASS, VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, WALL FLANGE, AND OPTIONAL METAL WHEEL HANDLE	MOUNT 12" AFF
IM-2	ICE MAKER BOX QATEY MODEL NO. 38152, WITH QUARTER-TURN BALL VALVE AND WATER HAMMER. PROVIDE WATTS 98D DUAL-CHECK VACUUM BREAKER, COORDINATE MOUNTING HEIGHT WITH REFRIGERATOR OR OTHER EQUIPMENT SUPPLIED IN GENERAL CONTRACT, MAKE FINAL CONNECTIONS	MOUNT 48" AFF AT COUNTERTOP EQUIPMENT UNO
L-1	LAVATORY (STANDARD) AMERICAN STANDARD REGALYN MODEL NO. 4867.004 ENAMELED CAST IRON, WALL HUNG, 4" CENTERS, 19" x 17" LAVATORY WITH CHICAGO FAUCETS MODEL NO. 3300-ABCP HOT AND COLD WATER METERING MIXING FAUCET, 4" CENTERS, 0.5 GPM VANDAL PROOF NON-AERATING SPRAY, ADJUSTABLE AUTO-TIMED METERING CARTRIDGE, CHROME PLATED SOLID CAST BRASS FAUCET MEETING LOW-LEAD REQUIREMENTS PROVIDE MCGUIRE NO. LF170LX KEY SUPPLIES WITH ESCUTCHEONS, MCGUIRE NO. 155A DRAIN AND TAILPIECE WITH PERFORATED STRAINER, AND MCGUIRE NO. 8902C P-TRAP. PROVIDE ZURN CARRIER MODEL NO. Z1224 TO FIT INSTALLATION REQUIREMENTS, TAILPIECE ON SUPPLIES SHALL BE COMPATIBLE WITH TAILPIECE ON FAUCET.	27" AFF TO RIM
L-2	LAVATORY (ACCESSIBLE) SAME AS L-1 EXCEPT FOR MOUNTING HEIGHT. PROVIDE MCGUIRE PROWRAP ON SUPPLIES AND TRAP	30" AFF TO RIM
L-3	LAVATORY (ACCESSIBLE) - FACULTY AMERICAN STANDARD REGALYN MODEL NO. 4867.001 ENAMELED CAST IRON, WALL HUNG, SINGLE HOLE, 19" x 17" LAVATORY WITH CHICAGO FAUCETS MODEL 2200-E280SABCP CHROME PLATED CAST BRASS SINGLE LEVER, SINGLE HOLE MOUNTED FAUCET WITH CERAMIC CARTRIDGE, TEMPERATURE LIMIT STOP, AND VANDAL RESISTANT 5 GPM AERATOR. PROVIDE MCGUIRE NO. LF170LX KEY SUPPLIES WITH ESCUTCHEONS, MCGUIRE NO. 155A DRAIN AND TAILPIECE WITH PERFORATED STRAINER, AND MCGUIRE NO. 8902C P-TRAP. PROVIDE ZURN CARRIER MODEL NO. Z1224 TO FIT INSTALLATION REQUIREMENTS. PROVIDE MCGUIRE PROWRAP ON SUPPLIES AND TRAP. TAILPIECE ON SUPPLIES SHALL BE COMPATIBLE WITH TAILPIECE ON FAUCET.	34" AFF TO RIM
MR-1	MOP RECEPTOR FLORESTONE MODEL NO. 80 24" x 24" x 12" ONE-PIECE PRECAST TERRAZZO WITH CAST INTEGRAL ST STL PROTECTIVE CAPS ON ALL SIDES, DRAIN BODY SHALL BE BRASS, CAST INTEGRAL WITH A NON-WALKED CONNECTION NOT LESS THAN 1" DEEP TO A 3" PIPE AND 1/8 GAUGE ST STL STRAINER. FLORESTONE NO. MR-371 SERVICE SINK FAUCET WITH INTEGRAL STOPS, VACUUM BREAKER, SPOUT, AND PAL HOOK WALL BRACE, AND FLORESTONE NO. MR-370 5'-LONG HOSE AND HOSE BRACKET.	
OFD	OVERFLOW ROOF DRAIN JAY R. SMITH MODEL NO. 1020-CID-C-R, DUCO CAST IRON BODY WITH CAST IRON DOME, UNDER-DECK CLAMP, ROOF SUMP RECEIVER, AND COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD	SIZE(S) PER PLAN(S)
RD	ROOF DRAIN JAY R. SMITH MODEL NO. 1310-CID-C-R, DUCO CAST IRON BODY WITH CAST IRON DOME, UNDER-DECK CLAMP, ROOF SUMP RECEIVER, AND COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD	SIZE(S) PER PLAN(S)
S-1	SINGLE SINK (ACCESSIBLE) - WORK/BREAK JUST, MODEL NO. SL-1921-A-G-R, 18 GAUGE TYPE 304 STAINLESS STEEL SINK, 21" x 19" WITH ONE 14" x 18" x 7 1/2" DEEP BOWL, 3 HOLE PUNCHED, 4" CENTERS, SELF-RIMMING, SOUND DEADENED SATIN FINISHED. PROVIDE WITH MOEN MODEL NO. 8789 CHROME-PLATED BRASS FAUCET WITH WRIST BLADE HANDLES AND MODEL NO. S0602 RIGID GOOSENECK SPOUT WITH NO. S2602 VANDAL-RESISTANT 5 GPM AERATOR, MCGUIRE NO. 170 SUPPLIES WITH ESCUTCHEONS, MCGUIRE NO. 151 CRUMB CUP STRAINER WITH 6" TAILPIECE, AND MCGUIRE 8912 CAST BRASS P-TRAP. SUPPLIES SHALL BE COMPATIBLE WITH TAILPIECE ON FAUCET.	SEE ARCHITECTURE DRAWINGS FOR COUNTER HEIGHT PROVIDE FAUCET FITTING TO RESTRICT SWING TO 180°
SP-1	SUMP PUMP LIBERTY PUMPS MODEL ELV-290 SUBMERSIBLE 3/4 HP CAST IRON EFFLUENT PUMP CAPABLE OF 50 GPM AT 25 FEET OF HEAD, 115V/1/60, UL APPROVED PROVIDE WITH LIBERTY PUMPS MODEL ALM-ZW, 115V INDOOR/OUTDOOR ALARM WITH AUXILIARY CONTACTS FOR CONNECTION TO BUILDING AUTOMATION SYSTEM PROVIDE FLOATS AND SWITCHES AS REQUIRED FOR PUMP ON, PUMP OFF, AND HIGH WATER ALARMS/ACTIVATION PROVIDE ADEQUATE CHORD AND CONNECTOR LENGTHS AS NEEDED TO PROVIDE FULLY FUNCTIONING SYSTEM AS ILLUSTRATED IN PLUMBING PLANS AND DETAILS COORDINATE ALL CONDUIT ROUTING AND CONNECTIONS WITH ELECTRICAL CONTRACTOR AND MECHANICAL/CONTROLS CONTRACTOR RESPONSIBLE FOR BAS/BMS INSTALLATION SHALL COMPLY WITH ASME A17.1 AND NCCOL REQUIREMENTS	
U-1	URINAL (STANDARD) AMERICAN STANDARD WASHBROOK MODEL NO. 6590.001 VITREOUS CHINA UNIVERSAL TOP SPUD URINAL, PINT FLUSH/1.25 GPF, 3/4" TOP SPUD, FLUSHING ELONGATED RIM WITH SLOAN SOLUS 6186-0-15-OR EXPOSED FLUSH VALVE 0.25 GPF FLUSHMETER, PROVIDE ZURN CARRIER MODEL 1221 OR 1222 TO FIT INSTALLATION REQUIREMENTS	17" AFF TO RIM
U-2	URINAL (ACCESSIBLE) - K-5 STUDENTS SAME AS U-1 EXCEPT MOUNTING HEIGHT	14" AFF TO RIM
WC-1	WATER CLOSET (STANDARD) AMERICAN STANDARD MADERA MODEL NO. 2858.016 FLOOR MOUNTED, BOTTOM OUTLET, 1-1/2" TOP SPUD, VITREOUS CHINA, HIGH EFFICIENCY TOILET WITH ELONGATED BOWL, 1.1 - 1.6 GAL/FLUSH SIPHON JET OPERATION, AND BOLTS AND CAPS - PROVIDE WITH SLOAN ECOS MODEL NO. 8111-1.6 DUAL FLUSH SENSOR FLUSHMETER. PROVIDE WITH CHURCH PRODUCTS NO. 9500SCT WITH BOLTS AND CAPS. EXTRA HEAVY DUTY SOLID PLASTIC, OPEN FRONT, ELONGATED SEAT WITH STAINLESS STEEL POSTS, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, AND STA-TITE FASTENING NUTS.	14" AFF TO RIM COORD. VALVE HANDLE HEIGHT WITH GRAB BARS WHERE APPLIES
WC-2	WATER CLOSET (ACCESSIBLE) AMERICAN STANDARD MODEL NO. 3461.001 MADERA FLOOR MOUNTED, BOTTOM OUTLET, 1-1/2" TOP SPUD, VITREOUS CHINA, ELONGATED BOWL, 1.6 GAL/FLUSH, SIPHON JET OPERATION. PROVIDE SLOAN ECOS MODEL NO. 8111-1.6 DUAL FLUSH SENSOR FLUSHMETER. PROVIDE WITH CHURCH PRODUCTS NO. 9500SCT WITH BOLTS AND CAPS. EXTRA HEAVY DUTY SOLID PLASTIC, OPEN FRONT, ELONGATED SEAT WITH STAINLESS STEEL POSTS, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, AND STA-TITE FASTENING NUTS.	10" AFF TO RIM COORD. VALVE HANDLE HEIGHT WITH GRAB BARS WHERE APPLIES
WC-3	WATER CLOSET (ACCESSIBLE) - FACULTY/STAFF AMERICAN STANDARD MADERA MODEL NO. 3043.001 FLOOR MOUNTED, BOTTOM OUTLET, 1-1/2" TOP SPUD, VITREOUS CHINA, HIGH EFFICIENCY TOILET WITH ELONGATED BOWL, 1.25 GAL/FLUSH SIPHON JET OPERATION, AND BOLTS AND CAPS, WITH SLOAN REGAL MODEL NO. 111-1.25 FLUSH VALVE. PROVIDE WITH CHURCH PRODUCTS NO. 9500SCT, EXTRA HEAVY DUTY SOLID PLASTIC, OPEN FRONT, ELONGATED SEAT WITH STAINLESS STEEL POSTS, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, AND STA-TITE FASTENING NUTS.	17" AFF TO RIM COORD. VALVE HANDLE HEIGHT WITH GRAB BARS WHERE APPLIES
WH-1	WATER HEATER - NATURAL GAS AO SMITH, CYCLONE MK-8TH199, 100 GALLON STORAGE CAPACITY NAT GAS WATER HEATER, POWER DIRECT VENT WITH SEALED COMBUSTION, RATED AT 199,000 BTU NATURAL GAS WITH A RECOVERY RATE OF 233 GALLONS PER HOUR AT 100°F RISE. HEATER STANDARD WITH ASME RATED TANK AND TEMPERATURE AND PRESSURE RELIEF VALVE, RATED FOR 150 PSI WORKING PRESSURE, 97% THERMAL EFFICIENCY FROM 40°F TO 140°F, CONDENSING DESIGN. PROVIDE CONCENTRIC VENTING KIT BY SAME MANUFACTURER WITH SEPARATE INTAKE AND FLUE. HEATER TO BE SET AT 110°F. PROVIDE STATE #ETC-10X EXPANSION TANK, BUTYL LINED. PROVIDE ANTRON MODEL NO. THERMA-X-TROL ST-5 EXPANSION TANK WITH 150 PSI MAXIMUM WORKING PRESSURE AND FACTORY PRE-CHARGED TO 40 PSIG. RECIRCULATING PUMP (RP-1) - SEE DETAIL FOR QUANTITY. B&G SERIES 100, 7 GPM, 8 FEET HEAD, 120/1/80, 1/2 HP, ALL BRONZE CONSTRUCTION AND FLANGE CONNECTION. MAKE CONNECTION TO BUILDING AUTOMATION SYSTEM CONNECTION POINT PROVIDED BY MECHANICAL CONTRACTOR (IF APPLICABLE).	

boomerang
DESIGN
rethink, repurpose, results

CHARLOTTE
201 S. Wilmington St., Suite 200
Charlotte, NC 28208
704/956-6000
704/731-7000

RALEIGH
6431 Falls of Neuse Rd., Suite 204
Raleigh, NC 27609
919/974-6400

LEWISTON
1070 S. Lake Dr., Suite J
Lewiston, NC 28179
903/556-0027

pdc
Progressive Design Collaborative, Ltd.
3101 Poplarwood Court, Suite 320
Raleigh, North Carolina 27604
919-790-9989
License# C-0183
PROJECT #23015

COOPER ACADEMY
A & R
PROJECT TITLE

"CLIENT'S PROJECT" # - XXX

02/19/2024
SCAMPBELL@PDCENGINEERS.COM

- THESE DRAWINGS ARE THE SOLE PROPERTY OF THE STATE OF NORTH CAROLINA. THE USE OF THESE DRAWINGS MUST COMPLY WITH GOOD STATE OF NORTH CAROLINA STANDARD FORM OF AGREEMENT BETWEEN OWNER AND DESIGNER.
- MATERIALS, DIMENSIONS AND ALL OTHER CONDITIONS WHICH ARE NOT OTHERWISE SPECIFIED ON THESE DRAWINGS SHALL BE DETERMINED BY THE SAME MEANINGS AS SIMILARLY INDICATED CONDITIONS WHICH ARE MORE FULLY DEFINED ELSEWHERE ON THIS PROJECT OR OTHER DRAWINGS OF THIS PROJECT.
- DO NOT SCALE OFF DIMENSIONS.

NO.	DATE	DESCRIPTION
1	02/20/2024	ADDENDUM 01

BID SET
PROJECT PHASE
2307
BOOMERANG DESIGN PROJECT NUMBER
02.07.2024
DRAWING RELEASE DATE

SCHEDULE
SHEET TITLE
P601
SHEET

2/19/2024 3:34:08 PM