

FILE: P:\2022\22-21\CAD\22-21 T-000.dwg PLOT DATE: October 1, 2015, 7:47 AM ORIGINAL PAPER SIZE: 22" x 34"

21 T-000.dwg PLOT DATE: October 1, 2015, 7:47 AM ORIGINAL PAPER SIZE: 22" x 34"



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1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO EXECUTING ANY WORK AND SHALL NOTIFY THE DEPARTMENT OF FACILITIES OPERATIONS IN WRITING OF ANYTHING DIFFERING FROM THAT SHOWN ON THE DRAWINGS. FAILURE TO DO SO WILL CONSTITUTE THE CONTRACTOR'S ACCEPTANCE OF THE WORK AS SHOWN.
2. ALL WORK SHALL COMPLY WITH ALL CODES, ORDINANCES AND REQUIREMENTS.
3. DO NOT SCALE DRAWINGS; WRITTEN DIMENSIONS SHALL PREVAIL.
4. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED PRIOR TO ANY PHASE OF CONSTRUCTION. FEES AND ANY RELATED COSTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
5. EXISTING BUILDINGS, UTILITIES, ETC. OR PORTIONS THEREOF, WHICH ARE DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THEIR ORIGINAL CONDITION, UNLESS OTHERWISE NOTED TO BE REMODELED PER THE CONTRACT DOCUMENTS.
6. EXACT LOCATIONS OF EXISTING UTILITIES ARE TO BE VERIFIED BY THE CONTRACTOR.
7. THE DUTIES OF THE OWNER/WASHINGTON STATE UNIVERSITY, ITS ENGINEER, AND ITS DESIGNATED CONSULTING ENGINEER DOES NOT INCLUDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTORS SAFETY PRECAUTIONS OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK.
8. THE MECHANICAL PLANS ARE DIAGRAMMATIC AND DO NOT ATTEMPT TO SHOW ALL DETAILS OF CONSTRUCTION.
9. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE PROJECT SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS, CONNECTION POINTS, ACCESS LIMITATIONS, AND OVERALL CONDITION OF THE EXISTING SYSTEMS PRIOR TO COMMENCEMENT OF WORK.
10. CONTRACTOR SHALL COORDINATE AND COMMUNICATE THEIR WORK WITH THE OCCUPANTS AND WSU PROJECT MANAGER WITH REGARD TO SCHEDULE
11. COORDINATE SHUT DOWN OF UTILITIES WITH THE OWNER A MINIMUM OF 14 DAYS IN ADVANCE.
12. ALL MATERIALS REMOVED DURING DEMOLITION SHALL BE SALVAGED TO SURPLUS OR PROPERLY DISPOSED UNLESS OTHERWISE NOTED.
13. COORDINATE WITH SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE STRINGENT SHALL APPLY.

WSU FACILITIES SERVICES

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OM

SHEET #	SHEET TITLE
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APPLICABLE BUILDING CODES:

2018 INTERNATIONAL BUILDING CODE
2018 UNIFORM PLUMBING CODE
2018 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FIRE CODE

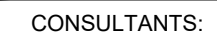
PROJECT LOCATION:

BIOTECHNOLOGY AND LIFE SCIENCES FACILITY
WSU PULLMAN CAMPUS
STADIUM WAY
PULLMAN, WASHINGTON 99354

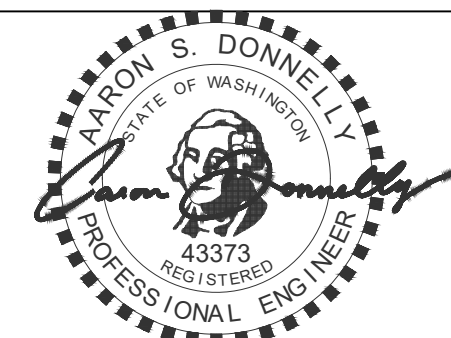
PROJECT SCOPE:

THE SCOPE OF THE PROJECT IS TO REPLACE ALL THE EXISTING FUSED POLYPROPYLENE DEIONIZED WATER PIPING THROUGHOUT THE BUILDING WITH SCH 80 PVC. THE PP PIPING HAS FAILED AND IS CURRENTLY ABANDONED IN PLACE. TEMPORARY SERVICES ARE SERVING THE LABS ON A LIMITED BASIS.

DESIGN FIRM:



PROVISIONAL STAMP:



WASHINGTON STATE
UNIVERSITY

Facilities Services PH 509-335-5571
2425 E. Grimes Way FAX 509-335-9304
Pullman, Wa. 99164-1150

DI WATER PIPING REPAIR/REPLACEMENT

0836

	09-20-22	100% CD
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DESIGN BY: ASD

DRAWN BY: MRH

CHECKED BY: CB

PROJECT No. 1816-2022

FILE No. TBD

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SHEET TITLE

T-001

SHEET 1 OF 14 SHEETS

FILE: P:\2022\22-21\CADD\22-21 M-001.dwg PLOT DATE: October 1, 2015, 7:47 AM ORIGINAL PAPER SIZE: 22" x 34"

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GENERAL NOTES

- THE CONTRACTOR SHALL INCLUDE ALL WORK SHOWN ON THE DRAWINGS, DIAGRAMS AND AS DESCRIBED IN ASSOCIATED TECHNICAL SPECIFICATIONS.
- REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS. COORDINATE WORK SHOWN ON THE DRAWINGS WITH THE SPECIFICATIONS. IN CASE OF DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS REFER TO THE GENERAL CONDITIONS AND NOTIFY THE A/E FOR DIRECTION.
- MECHANICAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND PAY ALL FEES. SUBMIT COPIES OF INSPECTIONS TO OWNER.
- ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION. USED OR DAMAGED MATERIALS, PRODUCTS, ETC. ARE NOT ALLOWED AND IF DISCOVERED SHALL BE REMOVED AND REPLACED.

LOCATIONS & COORDINATION

- THE PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS AND FITTINGS. PROVIDE ALL NECESSARY OFFSETS, TRANSITIONS AND FITTINGS REQUIRED FOR A COMPLETE SYSTEM. DRAWINGS OF THE EXISTING ARCHITECTURE, STRUCTURE, PLUMBING, ETC. WILL BE MADE AVAILABLE UPON REQUEST.
- INSTALL ALL MECHANICAL WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE. IN GENERAL IT IS THE INTENT THAT ALL MECHANICAL SYSTEMS BE CONCEALED ABOVE CEILINGS OR INSIDE WALLS AND SHAFTS.
- COORDINATE ALL EXPOSED PIPING SO THAT LOCATIONS AND ROUTING ARE INTEGRATED WITH THE OTHER BUILDING ELEMENTS (WALLS, ROOFS, JOISTS, LIGHTS, ETC.). GENERALLY RUN SYSTEMS PARALLEL OR PERPENDICULAR TO BUILDING ELEMENTS AND RUN IN A MANNER TO CONCEAL OR BLEND WITH BUILDING LINES.
- PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
- PROVIDE FIELD COORDINATION AND/OR DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. CONFLICTS AND INTERFERENCES THAT COULD HAVE BEEN AVOIDED BY PROPER PRE-PLANNING AND COORDINATION SHALL BE REMOVED AND CORRECTED AT NO COST TO THE OWNER.
- FIELD LOCATE ALL ROOF, FLOOR AND WALL PENETRATIONS AND ADJUST TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS, BEAMS, CROSS-BRACING, ARCHITECTURAL ELEMENTS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING ALL SAW CUTTING AND DRILLING REQUIRED FOR MECHANICAL SYSTEM OPENINGS.

PLENUMS, PVC, AND INSULATION

- DEIONIZED WATER IN THIS FACILITY DOES NOT REQUIRE INSULATION AS IT IS NEITHER HEATED NOR COOLED OUTSIDE OF AMBIENT CONDITIONS.
- PVC PIPING IS NOT ALLOWED IN PLENUM SPACES WITHOUT A PLENUM RATED FIRE RESISTANT WRAP. HOWEVER THE CEILING SPACES IN THIS FACILITY THAT ARE INTENDED TO BE UTILIZED FOR ROUTING OF NEW PVC PIPING ARE NOT KNOWN TO BE RETURN OR EXHAUST AIR PLENUMS, THEREFORE FIRE RESISTANT WRAP IS NOT REQUIRED.

PIPING

- SMALL PIPING OR COMPONENTS: PIPING PLANS DO NOT NECESSARILY SHOW ALL SMALL PIPING OR COMPONENTS, INSTRUMENT TAPS OR DRAINS. PROVIDE ALL PIPING, VALVES, SPECIALTY ITEMS, INSTRUMENTATION, ETC. AS INDICATED ON THE PIPING FLOW DIAGRAMS, PIPING/EQUIPMENT DETAILS.
- PIPING CONNECTIONS TO EQUIPMENT, VALVES, ETC. SHALL BE EQUAL TO THE FULL BRANCH RUN-OUT SIZES INDICATED ON THE DRAWINGS. PROVIDE REDUCERS AT CONNECTIONS ONLY WHERE NECESSARY.
- PROVIDE AIR VENTS AT HIGH POINTS, CHANGES IN DIRECTION FROM HORIZONTAL TO VERTICAL, AND ALONG HORIZONTAL RUNS AT APPROXIMATELY 100 FT INTERVALS.

SYSTEMS SUPPORTS

- HANGERS, SUPPORTS AND ANCHORS ARE NOT NECESSARILY DESIGNED OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT MEMBERS, HANGERS, BRACKETS, HARDWARE, CLEVIS HANGERS, RODS, ETC. TO SECURELY HANG, BRACE AND SUPPORT PIPING. ANCHOR SUPPORTS TO BUILDING STRUCTURE OR OTHER APPROPRIATE BUILDING ELEMENTS.
- DO NOT ANCHOR TO OR SUSPEND SYSTEMS DIRECTLY OFF OF BARE METAL ROOF DECKING.

TESTING, BALANCING AND COMMISSIONING

- THE DI WATER SYSTEM SHALL BE BALANCED TO ENSURE AT A MINIMUM THAT WATER FLOW RATES ARE MEASURED AND ADJUSTED TO DELIVER THE DESIGN RATES WITHIN SPECIFIED TOLERANCES.
- COMMISSIONING IS NOT REQUIRED.

MECHANICAL ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	HW	HOT WATER
ACCU	AIR COOLED	HX	HEAT EXCHANGER
	CONDENSING UNIT	HZ	HERTZ
AD	ACCESS DOOR	ID	INSIDE DIAMETER
AFS	AIR FLOW SWITCH	INV	INVERT
AFF	ABOVE FINISHED FLOOR	IE	INVERT ELEVATION
AG	ABOVE GROUND	INSUL	INSULATION
AHU	AIR HANDLING UNIT	KW	KILOWATT
ALUM	ALUMINUM	KWH	KILOWATT HOUR
APD	AIR PRESSURE DROP	L	LENGTH OR LOUVER
ARCH	ARCHITECT	LAT	LEAVING AIR TEMP
AVG	AVERAGE	LBS	POUNDS
BAS	BUILDING AUTOMATION SYSTEM	LDB	LEAVING DRY BULB
		LF	LINEAR FOOT
BDD	BACKDRAFT DAMPER	LWT	LEAVING WATER TEMP
BFF	BELOW FINISHED FLOOR	LG	LONG OR LENGTH
BFP	BACKFLOW PREVENTER	L/P	LOW POINT
BG	BELOW GROUND	LWB	LEAVING WET BULB
BHP	BRAKE HORSEPOWER	LWT	LEAVING WATER
BLDG	BUILDING		TEMPERATURE
BTU	BRITISH THERMAL UNIT	MCA	MINIMUM CIRCUIT
BTUH	BTU PER HOUR		AMPCACITY
BOD	BOTTOM OF DUCT	MOCP	MAXIMUM OVERCURRENT
BOP	BOTTOM OF PIPE		PROTECTION
BSMT	BASEMENT	MBH	THOUSAND (1000) BTU
BV	BALANCING VALVE		PER HOUR
C	CELSIUS	MFR	MANUFACTURER
CA	COMBUSTION AIR	MAU	MAKE-UP AIR UNIT
CAP	CAPACITY	NC	NORMALLY CLOSED
CC	COOLING COIL	NO	NORMALLY OPEN
CD	CEILING DIFFUSER	MOD	MOTOR-OPERATED
CFM	CUBIC FEET PER MINUTE		DAMPER
CG	CEILING GRILLE	NIC	NOT IN CONTRACT
CI	CAST IRON	NPT	NATIONAL PIPE THREAD
CLG	CEILING	NTS	NOT TO SCALE
COMB	COMBUSTION	OA	OUTDOOR AIR
COND	CONDENSATE OR CONDENSER	OB	OPPOSED BLADE DAMPER
		OD	OUTSIDE DIAMETER
CONC	CONCRETE	OSA	OUTSIDE AIR
CONST	CONSTRUCTION	OAT	OUTSIDE AIR TEMP
COP	COEFFICIENT OF PERFORMANCE	OF	OVERFLOW
		OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CU	COPPER		PRESSURE DROP
CW	COLD WATER	PD	PHASE
CU	CONDENSING UNIT	PH	PROPYLENE GLYCOL
CR	CONDENSATE RETURN	PG	PLUMBING
CL	CENTER LINE	PLBS	POINT OF CONNECTION
D	DEEP OR DEPTH	POC	PRESSURE REDUCING
DB	DRY BULB OR DECIBEL	PRV	VALVE
DBA	A-WEIGHTED DECIBELS		POUNDS PER SQUARE
DCV	DEMAND CONTROL VENTILATION	PSI	INCH
			POUNDS PER SQUARE
DDC	DIRECT DIGITAL CONTROL	PSIG	INCH GAUGE
DEMO	DEMOLITION		PRESSURE & TEMP
DN	DOWN	PT	RETURN AIR
DIA	DIAMETER Ø		RETURN AIR GRILLE
DP	DIFFERENTIAL PRESSURE	RAG	RETURN AIR
DWG	DRAWING	RAT	TEMPERATURE
(E)	EXISTING		RETURN
EA	EACH OR EXHAUST AIR	RET	REVISION
EAT	ENTERING AIR TEMP	REV	RETURN FAN
EDB	ENTERING DRY BULB	RF	REVOLUTIONS PER
EER	ENERGY EFFICIENCY RATIO	RPM	MINUTE
		RTU	ROOF TOP UNIT
EF	EXHAUST FAN	SA	SUPPLY AIR
EFF	EFFICIENCY	SAT	SUPPLY AIR TEMP
EG	EXHAUST GRILLE	SEER	SEASONAL ENERGY
ELEC	ELECTRIC OR ELECTRICAL		EFFICIENT RATIO
ELEV	ELEVATION	SENS	SENSIBLE
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM	SD	SMOKE DETECTOR OR
			DAMPER
ENCL	ENCLOSURE	SF	SUPPLY FAN
EQUIP	EQUIPMENT	SFD	SMOKE-FIRE DAMPER
ESP	EXTERNAL STATIC PRESSURE	SHT	SHEET
		SP	STATIC PRESSURE
EST	ESTIMATE(D)	SQ	SQUARE
EWB	ENTERING WET BULB	SQFT	SQUARE FOOT
EWT	ENTERING WATER TEMP	SS	STAINLESS STEEL
EXH	EXHAUST	STD	STANDARD
F	FARENHEIT	TA	TRANSFER AIR
FA	FRESH AIR (OUTSIDE AIR)	TEMP	TEMPERATURE
FCU	FAN COIL UNIT	TH	THICK OR THICKNESS
FD	FIRE DAMPER	TOD	TOP OF DUCT
FF	FINAL FILTER	TOP	TOP OF PIPE
FLA	FULL LOAD AMPS	TU	TERMINAL UNIT
FLR	FLOOR	TY	TYPICAL
FLEX	FLEXIBLE	UG	UNDERGROUND
FOB	FLAT ON BOTTOM	V	VENT OR VOLT
FOT	FLAT ON TOP	VAC	VACUUM
FPM	FEET PER MINUTE	VAV	VARIABLE AIR VOLUME
FPI	FINS PER INCH	VEL	VELOCITY
FPS	FEET PER SECOND	VFD	VARIABLE FREQUENCY
FP	FIRE PROTECTION		DRIVE
FS	FLOOR SINK	VRF	VARIABLE REFRIGERANT
FT	FEET/FOOT		FLOW
FV	FACE VELOCITY	VRV	VARIABLE REFRIGERANT
G	GAS (NATURAL)		VOLUME
GA	GAUGE OR GAGE	VTR	VENT THRU ROOF
GAL	GALLONS	VD	VOLUME DAMPER
GALV	GALVANIZED	W	WIDE OR WIDTH
GPM	GALLONS PER MINUTE	WB	WET BULB
GPH	GALLONS PER HOUR	WG	WATER GAUGE
GYP	GYPSUM WALL BOARD	WPD	WATER PRESSURE DROP
H	HIGH OR HEIGHT	WT	WEIGHT
HC	HEATING COIL		
HD	HEAD		
HGBP	HOT GAS BYPASS		
HL	HIGH LIMIT		
HP	HORSEPOWER		
HR	HOUR		
HTG	HEATING		
HUM	HUMIDIFIER		
HVAC	HEATING, VENTILATING AND AIR CONDITIONING		

PIPING LEGEND

DIW DEIONIZED WATER (10-MOHM)

GENERAL PIPING SYMBOLS

- PIPE PITCH DIRECTION (DOWN)
- DIRECTION OF FLOW
- ANCHOR
- REDUCER OR INCREASER
- ECCENTRIC REDUCER
- TOP CONNECTION
- BOTTOM CONNECTION
- SIDE CONNECTION
- CAPPED OUTLET
- RISE OR DROP IN PIPE
- UNION
- PIPE UP
- PIPE DOWN

VALVE AND EQUIPMENT SYMBOLS

- GENERIC VALVE (TYPE AS SPECIFIED)
- CHECK VALVE
- WYE STRAINER (WITH BALL VALVE & QUICK COUPLE HOSE CONNECTOR)
- FLEXIBLE CONNECTION
- MODULATING CONTROL VALVE
- TWO POSITION CONTROL VALVE
- PRESSURE REGULATING VALVE
- PRESSURE SAFETY RELIEF VALVE
- BALANCING VALVE (MANUAL OR AUTOFLOW AS SPECIFIED)
- PRESSURE REDUCING VALVE (PRV)
- THERMOMETER
- PRESSURE GAGE
- TEST PLUG (PRESSURE/TEMPERATURE)
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- QUICK-COUPLE HOSE CONNECTOR
- PUMP

LINEWEIGHT LEGEND

- LIGHT LINES INDICATES EXISTING ITEMS TO REMAIN
- LIGHT DASHED LINES HIDDEN OR UNDERGROUND ITEMS
- BOLD LINES INDICATES NEW ITEMS
- BOLD DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED

NOTE: LINEWEIGHTS ARE GENERAL GUIDES ONLY. REFER TO DRAWING NOTES AND WORK PHASES (DEMO OR NEW) FOR ADDITIONAL DISTINCTIONS.

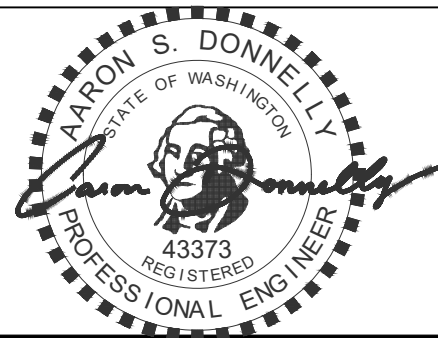
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DESIGN FIRM:



CONSULTANTS:

PROVISIONAL STAMP:



WASHINGTON STATE UNIVERSITY

Facilities Services PH 509-335-5571
2425 E. Grimes Way FAX 509-335-9304
Pullman, Wa. 99164-1150

BIOTECHNOLOGY/LIFE SCIENCES FACILITY

DI WATER PIPING REPAIR/REPLACEMENT

0836

	09-20-22	100% CD
MARK	DATE	DESCRIPTION

CAD DWG FILE:

DESIGN BY: ASD

DRAWN BY: MRH

CHECKED BY: CB

PROJECT No. 1816-2022

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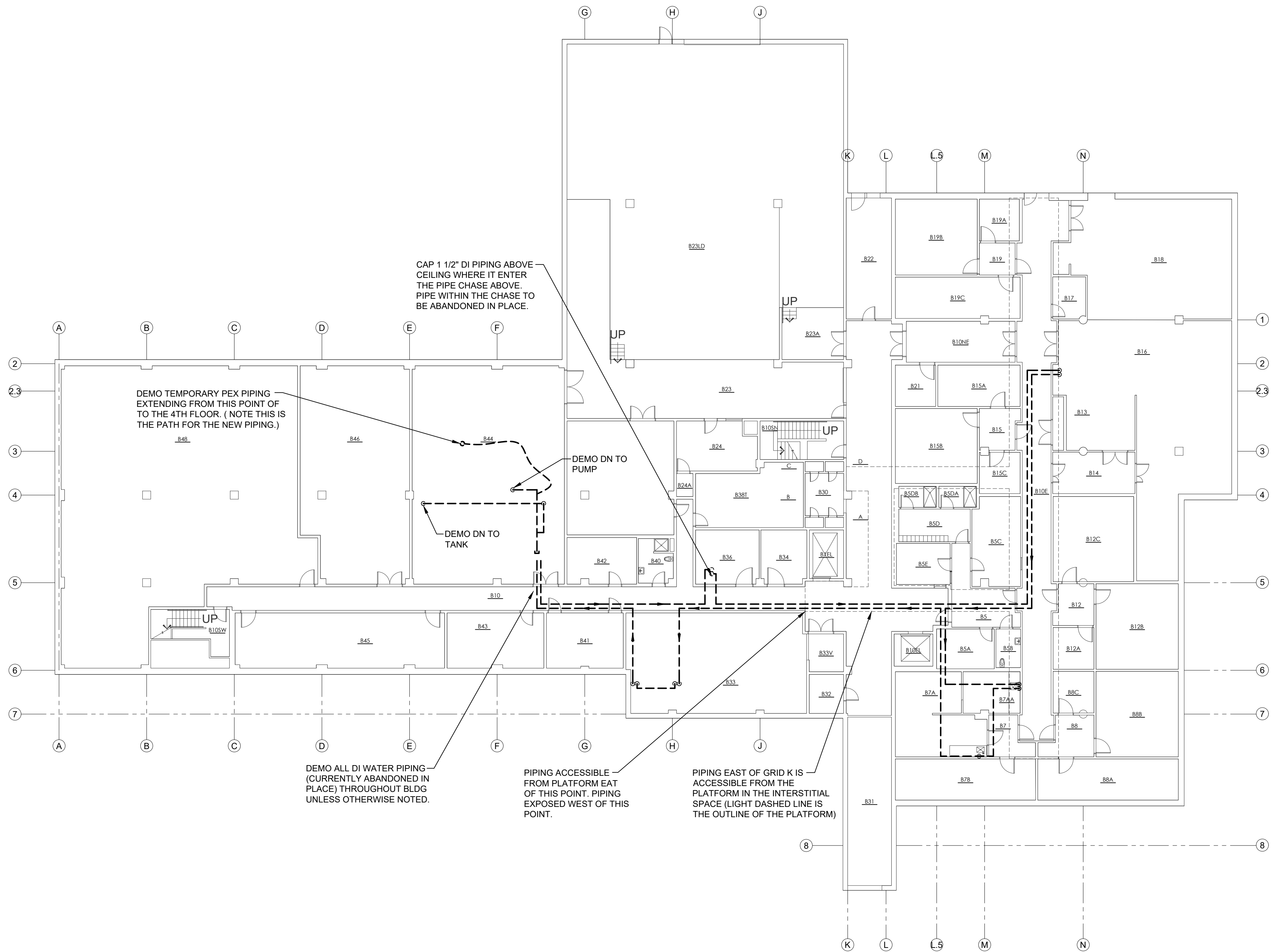
SHEET TITLE:

MECHANICAL SPECIFICATIONS, LEGENDS, ABBREVIATIONS

M-001

SHEET 2 OF 14 SHEETS

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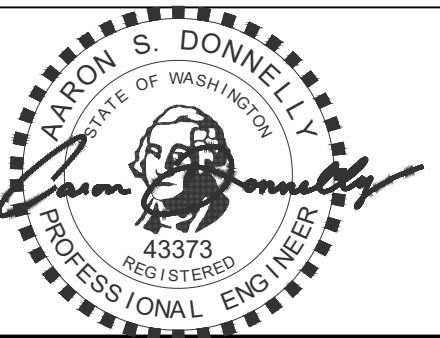
 **1** BASEMENT - DI WATER DEMO
Scale: 1/16" = 1' - 0"

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SHEET TITLE:

**BASEMENT
DI WATER DEMO**

M-101

SHEET 3 OF 14 SHEETS



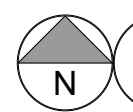
SHEET 4 OF 14 SHEETS



SHEET 5 OF 14 SHEETS

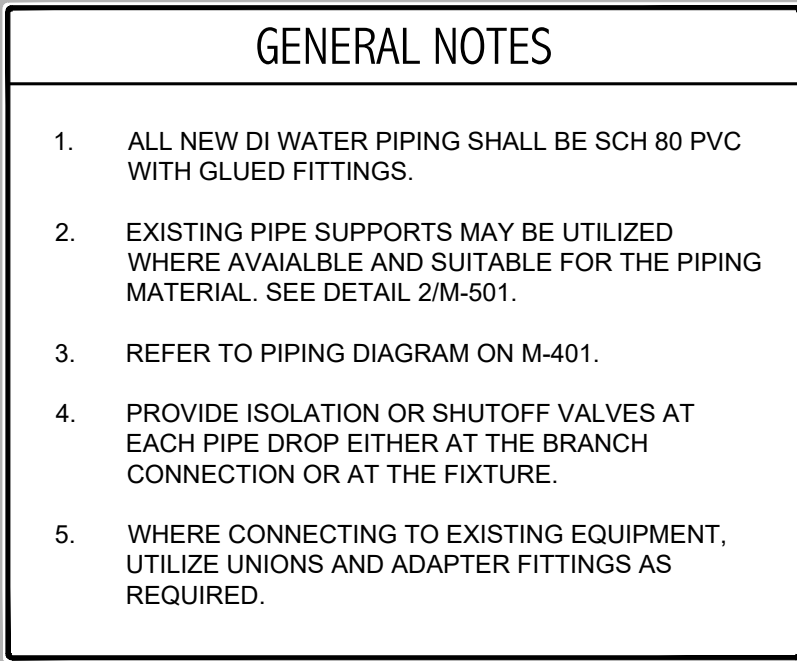


SHEET 6 OF 14 SHEETS



Scale: $1/16" = 1' - 0"$

SHEET 7 OF 14 SHEETS



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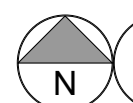
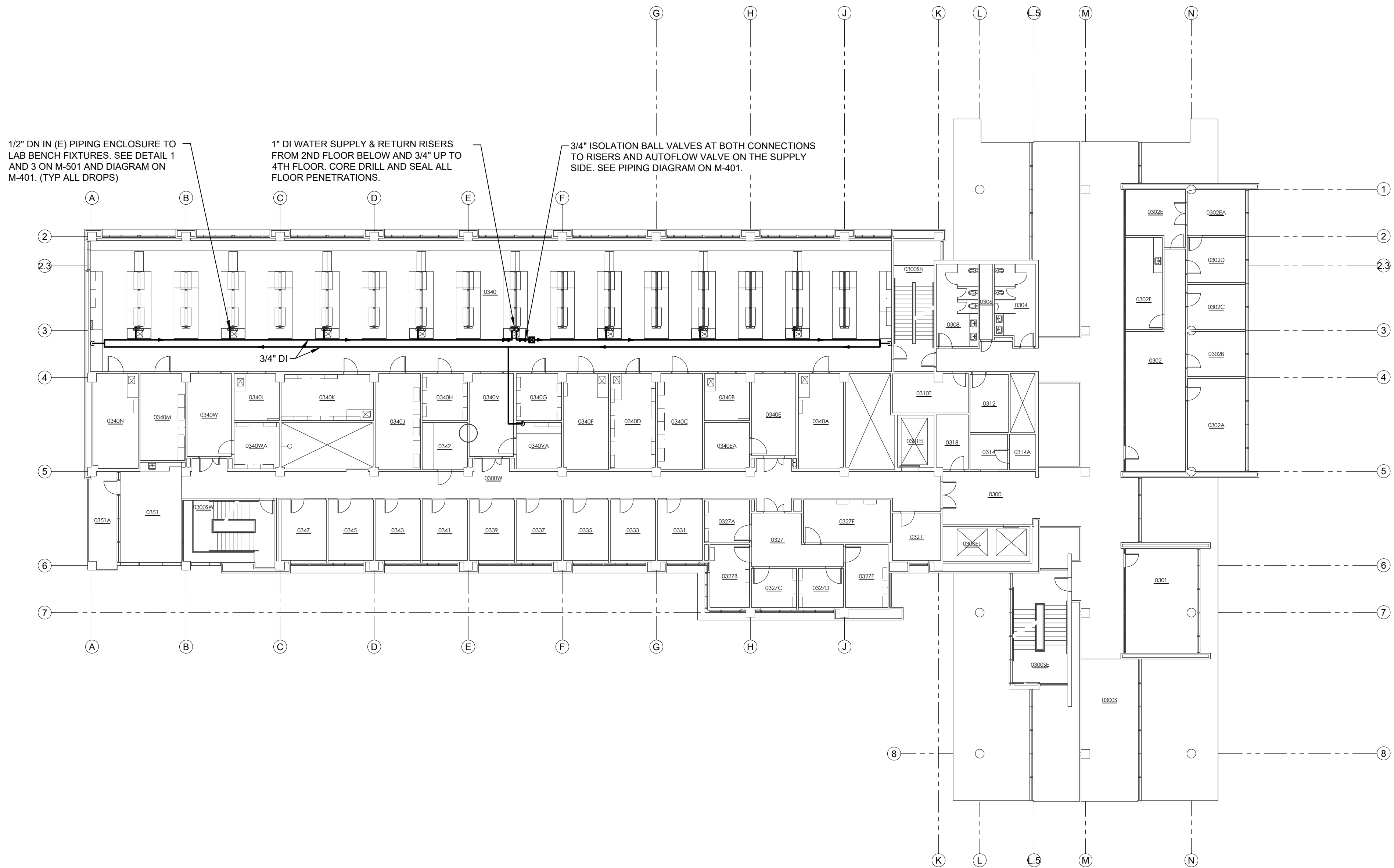
BASEMENT
DI WATER

SHEET 8 OF 14 SHEETS



SHEET 10 OF 14 SHEETS

FILE: P:\2022\22-21\CAD\22-21 M-204.dwg PLOT DATE: October 1, 2015, 7:47 AM ORIGINAL PAPER SIZE: 22" x 34"



1 THIRD FLOOR - DI WATER
Scale: 1/16" = 1' - 0"

GENERAL NOTES

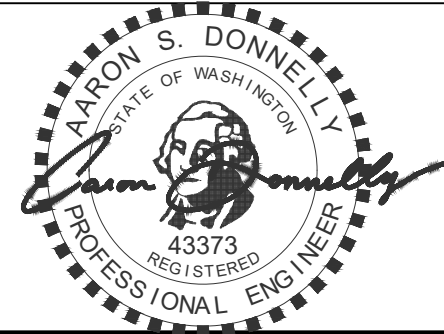
1. ALL NEW DI WATER PIPING SHALL BE SCH 80 PVC WITH GLUED FITTINGS.
2. EXISTING PIPE SUPPORTS MAY BE UTILIZED WHERE AVAILBLE AND SUITABLE FOR THE PIPING MATERIAL. SEE DETAIL 2/M-501.
3. REFER TO PIPING DIAGRAM ON M-401.
4. PROVIDE ISOLATION OR SHUTOFF VALVES AT EACH PIPE DROP EITHER AT THE BRANCH CONNECTION OR AT THE FIXTURE.
5. WHERE CONNECTING TO EXISTING EQUIPMENT, UTILIZE UNIONS AND ADAPTER FITTINGS AS REQUIRED.

DESIGN FIRM:



CONSULTANTS:

PROVISIONAL STAMP:



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REPAIR/REPLACEMENT

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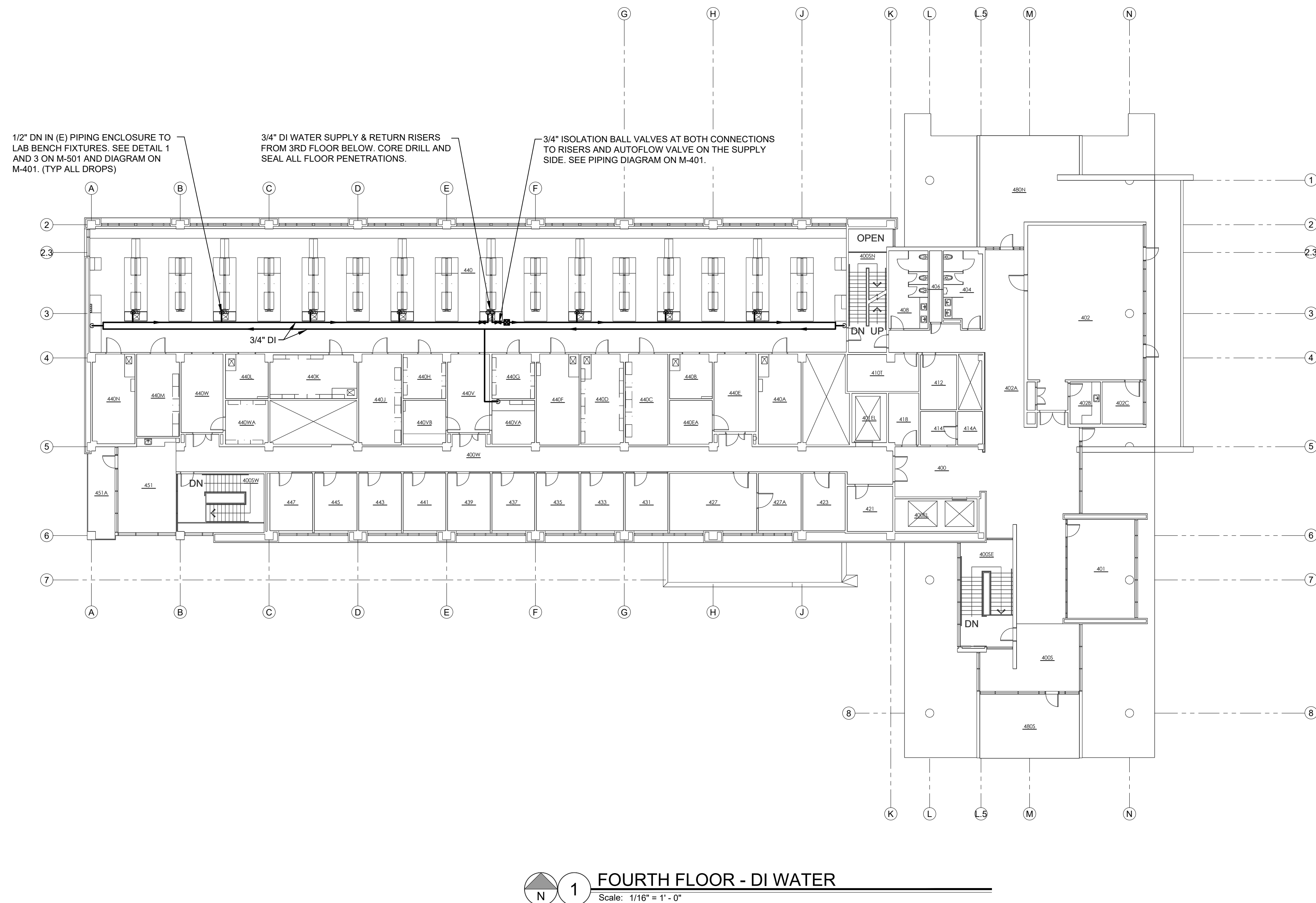
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SHEET TITLE

THIRD FLOOR
DI WATER

M-204

SHEET 11 OF 14 SHEETS



GENERAL NOTES

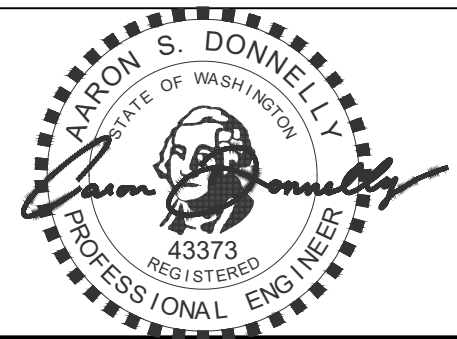
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SHEET TITLE

FOURTH FLOOR
DI WATER

M-205

SHEET	12	OF	14	SHEETS
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1 PIPE DROP ENCLOSURE DETAILS

Scale: NOT TO SCALE

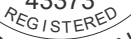


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CONSULTANTS:



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SHEET TITLE

M-501

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