DEMOLITION/REMOVAL LEGEND:

- Contractor shall protect and maintain in place.
- Contractor shall remove and dispose of legally required.

PIPE BEDDING AND BACKFILL DETAIL

FRANCHISE COMMON TRENCH

WSU GOLF INDOOR PRACTICE FACILITY
NEW UTILITIES

WSU-01

UTILITY PLAN
EXHAUST FAN SCHEDULE

<table>
<thead>
<tr>
<th>MFR</th>
<th>MODEL</th>
<th>TYPE</th>
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<th>RPM</th>
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<th>V/PH</th>
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ELECTRIC HEATER SCHEDULE

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NOTES:
- PAINT THE INSIDE SURFACE OF THE DUCTWORK CONNECTION FLAT BLACK, UNLESS OTHERWISE PROVIDED WITH DUCT LINER.
- PROVIDE BALANCING DAMPER IN BRANCH DUCT SERVING AIR OUTLET AT TAKEOFF FROM TRUNK DUCT.
- PROVIDE TRANSITION FROM AIR OUTLET NECK TO BRANCH DUCT AS REQUIRED.
- PROVIDE WITH THE FOLLOWING:
  - CLASS 1 MOTORIZED EXHAUST DAMPER TO OPEN WHEN FAN RUNS
  - FACTORY DISCONNECT
  - ECM MOTOR WITH MANUAL SPEED ADJUSTMENT DIAL (CAPABLE OF CONTROL BY OTHERS)
- PROVIDE WITH BUILT-IN TAMPER-RESISTANT T-STAT AND CONCEALED POWER ON/OFF SWITCH FOR MAINTENANCE.
1. Fan to be controlled by lighting circuit (enable when lights turn on). Coordinate with Div 26.
2. Exhaust through sidewall with stainless steel vent cap with integral backdraft damper (SEIHO Model RCC-S or equal)
3. Electric heaters to be controlled by internal tamper-proof thermostat. Set to 55 degrees.
### PLUMBING FIXTURES

<table>
<thead>
<tr>
<th>#</th>
<th>FIXTURE</th>
<th>MFR</th>
<th>MODEL #</th>
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<td>LAVATORY FIXTURE</td>
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<td>VERIFY WALL THICKNESS.</td>
<td>INCLUDE WALL SLEEVE TO CONCEAL HEATER AND PRE-WIRED DISCONNECT SWITCH</td>
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<td>3</td>
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<td>BACKFLOW PREVENTION DEVICES</td>
<td>BACKFLOW PREVENTION DEVICES</td>
<td>BACKFLOW PREVENTION DEVICES</td>
<td>B</td>
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<td>PROVIDE WITH SUFFIX -C WHEN LOCATED IN MECHANICAL ROOMS AND SIMILAR SPACES.</td>
<td>PROVIDE WITH AIR GAP FITTING AND DRAIN UNDIMINISHED IN SIZE TO FLOOR DRAIN.</td>
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<td>FLOOR DRAIN</td>
<td>FLOOR DRAIN</td>
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<td>F</td>
<td>#</td>
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### BACKFLOW PREVENTION DEVICES

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### ELECTRIC TANKLESS WATER HEATER SCHEDULE

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### FLOOR DRAIN SCHEDULE

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<td>PRIMARY SUPPLY TO FLOOR, COUNTEROF, AND WALL DRAIN INTO WARMUP CHAMBER</td>
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### PLUMBING SCHEDULES

Sheet P1.01
**Key Notes**

- 2" W UP W/ P-TRAP AND PRIMER
- 2" W UP W/ COIW
- 4" W UP
- 2" V UP
- 4" W STUBBED OUT FROM BUILDING W/ COTG, I.E. 2567.50 (2.00' BELOW FINISHED FLOOR). COORDINATE WITH CIVIL FOR EXACT POINT OF CONNECTION WHICH MAY BE WITHIN 5-FT OF THE BUILDING.
- 2" CW STUBBED OUT 5' FROM BUILDING WITH MINIMUM 4-FT OF COVER. COORDINATE WITH CIVIL FOR EXACT POINT OF CONNECTION WHICH MAY BE WITHIN 5-FT OF THE BUILDING.
- 2" CW UP
- 4" W UP W/ P-TRAP & PRIMER
- 4" COTF
WATER HEADER - DETAIL

1. MOUNT HEATER UNDERNEATH SINK OR LAVATORY.

TANKLESS WATER HEATER DETAIL

NOTES:

FINISH FLOOR
1-1/2"

BY-PASS VALVE N.C.

PRV-1
PRESSURE GAUGE (TYP)
4"FS-1

STRAINER & DRAIN MAIN

MAIN SHUT-OFF

DIELECTRIC FITTING

THRUST RESTRAINT PER WATER UTILITY STANDARD

BFP-1

BFP-2

AIR GAP FITTING W/ DRAIN FULL LINE SIZE TO DRAIN (TYP-2)
2" 2" 2" 1-1/2" 2"x1-1/2" REDUCER 1-1/2" 1-1/2" 1-1/2" 1-1/2"

1-1/2"x 1-1/4" REDUCER (TYP)
1. Exhaust fan to be interlocked with restroom lighting occupancy sensor. Refer to E2.00.
2. Provide lighting control panel override switch.
3. Verify exact mounting height with backlit mural/logo. Route circuit through lighting control panel. Refer to architectural exterior elevations.
4. Refer to E4.01-5 for vestibule control diagram and information.
5. Provide exterior mounted photocell facing north with low voltage cabling to lighting control panel. Refer to E4.01-1.
6. Fixture to have battery backed driver for egress.

General Notes:
1. All exit signs to be connected to local lighting circuit ahead of any and all switching whether indicated or not.
2. Refer to architectural reflected ceiling plans for ceiling types and heights.
3. Provide unswitched 'charging' circuit to all battery backed fixture(s).
4. Provide additional switch legs, travelers, grounds, neutrals, etc. to facilitate control of lighting fixtures to meet the intent of the design. Lower case 'x' letter next to fixture/swITCH indicates switching intent.
5. Lighting controls and controls commissioning requirements are to be in accordance with Washington State Energy Code 'WSEC'.
6. Provide Class 2 wiring between all light fixture(s) and control devices to facilitate necessary lighting control.
7. All fixtures within a given room/area are of the same type indicated unless noted otherwise.
8. Number adjacent to fixture/equipment indicates panel and circuit number device is to be circuited to. Conductor(s) to be minimum 2#12 & 1#12 GND AWG CU in 3/4" conduit unless noted otherwise. All circuit(s) over 100' to be upsized to #10 AWG.
9. Field verify existing circuiting and make adjustments as necessary to new circuiting based on field conditions.
10. See fixture schedule for fixture types.
11. Coordinate final location of all fixture(s) to avoid conflicts with other trades/equipment.
1. Fault current information was unavailable at time of design. Fault current calculations are based on an infinite bus with a 112.5kVA, 120/208V, 3-phase, transformer with an impedance of 2.8%. Contractor to verify available fault current from utility and notify engineer of record prior to purchase of any electrical panels/switchboards.

**Key Notes**

1. Contractor to intercept existing (2) 2" conduit stubs from existing rack mounted service disconnect and extend to new building service disconnect indicated. Contractor to provide new conductor(s) as indicated between existing 400A service disconnect and new building service panel.

2. Existing panel 'GS' service to be disconnected and removed. Existing panel 'GS' to be refed from new panel 'GS2' as indicated.

3. Existing service ground to be disconnected from existing panel 'GS' and reconnected/extended to new panel 'GS2'.

4. Existing feeder to be disconnected from existing panel 'GS1' and refed from new panel 'GS2'.

**Panel Schedules**

**Luminaire Schedule**

**General Notes**

- Contractor is required to provide panel schedule to show any additions.
- All equipment must be factory tested and labeled.
- All conduit and wire must be factory labeled and traced.

- Contractor to verify available fault current from utility and notify engineer of record prior to purchase of any electrical panels/switchboards.

**Sheet Information**

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