ARCHITECTURAL DIRECTIVE DRAWINGS

AUGUST 2019

THESE DIRECTIVE DRAWINGS ARE ISSUED TO ENSURE THE APPLICATION OF UNIFORM STANDARDS FOR THE DESIGN, FABRICATION, INSTALLATION, AND CONSTRUCTION OF SPECIFIC ITEMS OF WORK FOR THE SOUND TRANSIT LINK LIGHT RAIL, SOUNDER, REGIONAL EXPRESS BUS, AND BUS RAPID TRANSIT SYSTEMS, AS DEPICTED HEREIN. IN CONJUNCTION WITH THE DESIGN CRITERIA MANUAL, STANDARD SPECIFICATIONS, AND STANDARD DRAWINGS, THE DESIGNER SHALL VALIDATE AND FINALIZE THE DESIGN DEPICTED ON THESE DIRECTIVE DRAWINGS FOR INCLUSION INTO THE PROJECT CONTRACT DOCUMENTS. THESE DRAWINGS ALSO PROVIDE A BASIS FOR PRESENTATION OF DESIGN INFORMATION. THESE DRAWINGS DO NOT CONSTITUTE A SUBSTITUTE FOR THE DESIGNER’S INDEPENDENT USE OF ENGINEERING JUDGMENT AND SOUND ENGINEERING PRACTICE. NOR DO THEY RELIEVE THE DESIGNER OF ITS RESPONSIBILITY TO COMPLY WITH THE STANDARD OF CARE.

IF THE DESIGNER IDENTIFIES THAT AN ASPECT OR ASPECTS OF THESE DIRECTIVE DRAWINGS ARE INAPPROPRIATE FOR INCLUSION IN THE FINAL DESIGN, THE DESIGNER SHALL INFORM AND SECURE CONCURRENCE FROM THE SOUND TRANSIT CORRIDOR DESIGN MANAGER OR PROJECT MANAGER AS PART OF DESIGN MILESTONE SUBMITTALS.

CONTACT THE SOUND TRANSIT CORRIDOR DESIGN MANAGER OR PROJECT MANAGER TO OBTAIN CAD FILES OF THE DIRECTIVE DRAWINGS. UPDATING THE DIRECTIVE DRAWINGS IS AN ONGOING PROCESS AND REVISIONS ARE ISSUED REGULARLY. COMMENTS, QUESTIONS, AND IMPROVEMENT IDEAS ARE WELCOMED. PLEASE SEND ALL COMMENTS TO DECM DEPUTY EXECUTIVE DIRECTOR OF DESIGN AND ENGINEERING.


APPROVED BY: ___________________________ DATE: __________
MOISES GUTIERREZ
DECM DEPUTY EXECUTIVE DIRECTOR DESIGN AND ENGINEERING

APPROVED BY: ___________________________ DATE: __________
JULIE MONTGOMERY
DECM DIRECTOR OF ARCHITECTURE & ART
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Design and Engineering Design Standards Documents

Project teams shall refer to their executed project contracts for applicable document versions/revisions.
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**GENERAL NOTES**

1. GUIDANCE AND STANDARD DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DESIGN CRITERIA MANUAL.
2. DO NOT SCALE THE DRAWINGS.
3. REPETITIVE FEATURES ARE OFTEN DRAWN OR REFERENCED ONLY ONCE AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
4. REFER TO ST SYSTEMS GUIDANCE DRAWINGS AND ST CUSTOMER SIGNAGE DESIGN MANUAL FOR ADDITIONAL SIGNAGE REQUIREMENTS.

**SYMBOLS**

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<tr>
<th>SECTION / DETAIL</th>
<th>PLAN</th>
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<tr>
<td>GRAVEL</td>
<td>IN-BETWEEN CAR BARRIER</td>
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<tr>
<td>EARTH</td>
<td>TACTILE WAYFINDING PATH</td>
</tr>
<tr>
<td>CONCRETE</td>
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<tr>
<td>CONCRETE MASONRY UNITS</td>
<td>SATTF</td>
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<td>TILE</td>
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<td>STEEL</td>
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<tr>
<td>GROUT</td>
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<tr>
<td>CELLULAR CONCRETE FILL</td>
<td>PERFORATED METAL</td>
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<tr>
<td>CEMENTITIOUS FIREPROOFING</td>
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<td>PLYWOOD</td>
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<td>GYPSUM BOARD</td>
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<td>ACOUSTICAL PLASTER</td>
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<td>BATT INSULATION</td>
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<td>INSULATION</td>
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**LIMITS OF WORK LINE**

**ROOM NAME**

**ROOM NUMBER**

**FLOOR DRAIN**

**ROOF DRAIN**

**CHANGE IN PLANE**

**CHANGE IN PLAN**

**SLOPE**

**LOCATION OF REMOTE POINT OR WORK POINT**

**DIMENSION POINT**

**LEVEL HEAD**

**SPRINKLER HEAD**

**GENERAL NOTES & SYMBOLS**

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4. REFER TO ST SYSTEMS GUIDANCE DRAWINGS AND ST CUSTOMER SIGNAGE DESIGN MANUAL FOR ADDITIONAL SIGNAGE REQUIREMENTS.
GENERAL NOTE:
1. THIS PLAN INDICATES A PROTOTYPICAL CONFIGURATION LAYOUT ONLY. SPECIFIC STATION REQUIREMENTS AND LAYOUTS WILL VARY. ACTUAL LAYOUT WILL BE SUBJECT TO FINDINGS OF EXIT CALCULATIONS PERFORMED IN ACCORDANCE WITH GOVERNING CODES AND THE DCM.

PLAN

SCALE: 1/16" = 1'-0"
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PLAN
SOUND TRANSIT DIRECTIVE DRAWINGS
ARCHITECTURAL
ELEVATED SIDE PLATFORM
PLAN
GENERAL NOTE:
1. THIS PLAN INDICATES A PROTOTYPICAL CONFIGURATION LAYOUT ONLY. SPECIFIC STATION REQUIREMENTS AND LAYOUTS WILL VARY. ACTUAL LAYOUT WILL BE SUBJECT TO FINDINGS OF EXIT CALCULATIONS PERFORMED IN ACCORDANCE WITH GOVERNING CODES AND THE DCM.

PLAN

SCALE: 1/16" = 1'-0"
GENERAL NOTE:
1. This plan indicates a prototypical configuration layout only. Specific station requirements and layouts will vary. Actual layout will be subject to findings of exit calculations performed in accordance with governing codes and the DCM.

PLAN

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

STATION LENGTH - VARIES
SEE PROJECT PLANS

38'-0" PLATFORM LENGTH
GENERAL NOTE:
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SOUND TRANSIT
DIRECTIVE DRAWINGS
ARCHITECTURAL
AT-GRADE CENTER PLATFORM PLAN

PLAN
SCALE: 1/16" = 1'-0"
ANCILLARY SPACES @ ELEVATED STATIONS - ADJACENCY DIAGRAM

ANCILLARY SPACES @ ELEVATED TERMINUS STATIONS - ADJACENCY DIAGRAM

GENERAL NOTES:
1. REFER TO CURRENT DCM FOR ADDITIONAL ANCILLARY SPACE REQUIREMENTS.
2. DIMENSIONS TO BE CONFIGURED FOR PROJECT CONDITIONS.
General Notes:
1. This plan indicates a prototypical configuration layout only. Specific station requirements and layouts will vary. Not all required ancillary spaces are shown. Actual layout will be subject to findings of SIT calculations performed in accordance with governing codes and the DCM.
2. Dashed lines at TVM equipment plan indicate ADA approach space. Parallel ADA approach is assumed.
3. Refer to Sound Transit Customer Signage Manual to determine mounting heights for customer information panels and trip planner.

Plan:
- Scale: 1/8" = 1'-0"
GENERAL NOTE:
This plan indicates a prototypical configuration/layout only. Specific station requirements and layouts will vary. Actual layout will be subject to findings of exit calculations performed in accordance with governing codes and the DCM.

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20' X 12' MIN.

CUSTOMER INFORMATION PANELS
FARE PAID ZONE
OVERHEAD ENTRY SYSTEM
SIDEWALK
OVERHEAD ENTRY SYSTEM
SURFACE LEVEL

SCALE: 1/8" = 1'-0"

MEZZANINE LEVEL - TYPE 1

SCALE: 1/8" = 1'-0"

MEZZANINE LEVEL - TYPE 2

SCALE: 1/8" = 1'-0"

GENERAL NOTE:
This plan indicates a prototypical configuration/layout only. Specific station requirements and layouts will vary. Actual layout will be subject to findings of exit calculations performed in accordance with governing codes and the DCM.

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SIDEWALK
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SURFACE LEVEL

SCALE: 1/8" = 1'-0"

MEZZANINE LEVEL - TYPE 1

SCALE: 1/8" = 1'-0"

MEZZANINE LEVEL - TYPE 2

SCALE: 1/8" = 1'-0"
GENERAL NOTES:
1. COMPLY WITH SEISMIC REQUIREMENTS.
2. GROUT BEHIND ALL HOISTWAY PENETRATIONS FOR PIPES, FIXTURES, ETC.
3. INSTALL APPROVED KEY RETAINER BOX, KEYED TO THE SECURE CITY KEY.
4. KEYS REQUIRED FOR THE OPERATION OF ELEVATOR, FIRE EMERGENCY SERVICE, THE MACHINE ROOM AND THE MECHANICAL HOISTWAY ACCESS KEY SHALL BE TAGGED AND KEPT IN THE KEY BOX.
5. PROVIDE SELF-CLOSING, SELF-LOCKING MACHINE ROOM ACCESS DOOR.
6. PROVIDE LIGHTS, LIGHT SWITCHES AND GFCI-PROTECTED UTILITY OUTLETS. COORDINATE LOCATIONS WITH ELEVATOR CONTRACTOR.
7. FOR EQUIPMENT IN THE MACHINE ROOM, A CLEARANCE OF NOT LESS THAN 18" SHALL BE PROVIDED IN THE DIRECTION(S) REQUIRED FOR MAINTENANCE, AND A CLEAR PATH OF NOT LESS THAN 18" SHALL BE PROVIDED TO ALL COMPONENTS THAT REQUIRE MAINTENANCE.
8. PROVIDE SEPARATE CIRCUIT WITH LOCKABLE MEANS OF DISCONNECT FOR CAB LIGHTS/EXHAUST FAN.
9. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 10 FC ILLUMINATION AT PIT FLOOR.
10. PROVIDE PIT ACCESS LADDER, LIGHT(S), AND GFCI RECEPTACLE.

ELEVATOR CLASSIFICATION SCHEDULE

<table>
<thead>
<tr>
<th>ELEVATOR</th>
<th>CAPACITY</th>
<th>TYPE/GEOMETRY</th>
<th>LOADING CLASSIFICATION</th>
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<tbody>
<tr>
<td>1</td>
<td>LBS</td>
<td>PASSENGER</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>SERVICE</td>
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ENLARGED PLAN - PLAZA LEVEL

ENLARGED PLAN - PLATFORM LEVEL

ENLARGED PLAN - PIT

1/8" X 1/8" X 1/8" SUMP W/ GRATING LEVEL W/ PIT FLOOR

SAFTP, TYP WHERE OCCURS
GENERAL NOTES:

1. Block out through machine room floor and/or walls for hydraulic oil line, and electrical wiring ducts. Verify location on elevator contractor shop drawings.

2. Self-closing, self-locking access door or gate for machine room. Keying must be separate from building keying. Gate shall be operable from inside without key. Recommend minimum 3'-0" x 7'-0" sound attenuating doors coordinated to allow installation of any related equipment.

3. Minimum headroom clearances: 8'-0" recommended under machine room ceiling space, 7'-6" under encroaching beams (including fireproofing).

4. Class "ABC" fire extinguisher in each elevator machine room.

5. Only equipment used in conjunction with the function of the elevator shall be permitted in the elevator machine room. Access through elevator machine room to adjacent rooms or areas shall not be permitted, permanent and unobstructed access to machine room shall be provided for authorized personnel.

6. Bevel cant not less than 75° from the horizontal on any gear or side wall ledges and beams that project or recess 4" or more into the hoistway. Cants not required on divider beams. Enclose webs of hoistway steel framing.

7. Divider beams between adjacent elevators at each floor, pit and overhead. Divider beams need not be fireproofed.

8. Sound attenuating assemblies for walls of machine room, controller space and/or hoistway where sound-sensitive areas are adjacent.

9. Pit access ladder for each elevator that does not have a walk-in pit.


11. Waterproof pit - 18" x 18" x 18" sump with flush grate.
NOTE: ANY EXPOSED SUPPLY AND WASTE PIPING SHALL BE INSULATED PER ADA REQUIREMENTS.

LAVATORY OR SINK
1-1/2" WASTE PIPING
INSTALL WITH MANUFACTURER REQUIRED MAINTENANCE CLEARANCE ON ALL SIDES AND FRONT.

INSTANTANEOUS ELECTRIC WATER HEATER. PROVIDE INSTANTANEOUS WATER HEATER FOR LAVATORY OR SINK FOR FACILITIES WITH NO CENTRAL DOMESTIC HOT WATER SYSTEM. ENSURE WATER TEMPERING METHODS MEET ALL APPLICABLE CODES AND REGULATIONS.

NOTE:
ISOLATION VALVES REQUIRED FOR EACH FLOOR LEVEL TO FACILITATE MAINTENANCE. INSTALL ACCESSIBLE WATER HAMMER ARRESTORS AS REQUIRED.

DOMESTIC WATER LINES SHALL BE SIZED AND PRESSURE REGULATORS INSTALLED AS NEEDED TO MAINTAIN UNIFORM PRESSURE AT ALL PLUMBING FIXTURES LOCATED AT THE SAME LEVEL. A MINIMUM OF 15 PSI AT EACH FLUSH VALVE AND 8 PSI AT ALL OTHER FIXTURES IS REQUIRED. ALL HOT WATER PIPES SERVING MORE THAN A SINGLE FIXTURE SHALL BE A MINIMUM OF 3/4".

GENERAL NOTES:
1. SIZING IS FOR REFERENCE ONLY, DESIGNER TO DETERMINE SIZE BASED ON CODE AND FIXTURE REQUIREMENT.
2. DRAWING IS INTENDED TO COMMUNICATE TYPICAL CONFIGURATION. DESIGN SHALL BE DEVELOPED FOR FACILITY REQUIREMENTS.

BACKFLOW PREVENTER DETAIL

NOTE:
ISOLATION VALVES REQUIRED ON BOTH SIDES OF IN-LINE ACCESSORIES, AND EQUIPMENT THAT REQUIRES REMOVAL OR ISOLATION FROM PRESSURE FOR MAINTENANCE.

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GENERAL NOTES:
1. BMS CONTINUOUSLY MONITOR BUILDING ENVIRONMENTAL CONDITIONS AND EQUIPMENT OPERATION.
2. BMS COMPARES BUILDING ENVIRONMENTAL CONDITIONS AND EQUIPMENT OPERATION TO ACCEPTABLE BUILDING ENVIRONMENTAL VALUES AND OPERATING SCHEDULES.
3. BMS ACTIVATES OR DEACTIVATES BUILDING EQUIPMENT AS REQUIRED TO MAINTAIN ACCEPTABLE BUILDING ENVIRONMENTAL VALUES AND OPERATING SCHEDULES.
4. BMS REGISTERS FAULT SIGNALS FOR BUILDING EQUIPMENT UNABLE TO MAINTAIN ACCEPTABLE BUILDING ENVIRONMENTAL VALUES AND OPERATING SCHEDULES.
5. BMS COMMUNICATES FAULT SIGNALS TO LCC FOR STATIONS AND ST FACILITIES MAINTENANCE FOR GARAGES.
6. BMS MANAGES FIRE ALARM RESPONSE FOR MECHANICAL EQUIPMENT BASED ON FACP INPUT.
7. BMS SHOULD USE HYDROGEN (H2) SENSORS TO MONITOR H2 CONCENTRATION LEVELS IN ROOMS CONTAINING LEAD-ACID BATTERIES WITH GREATER THAN 50 GALLONS OF LIQUID CAPACITY. INTERMITTENT VENTILATION SHOULD LIMIT MAXIMUM CONCENTRATION OF H2 TO LESS THAN 1% OF THE TOTAL ROOM VOLUME.
8. INSTRUMENTATION SHOWN FOR REFERENCE, BUT DESIGNER SHALL COORDINATE APPROPRIATE SENSORS OR INSTRUMENTATION FOR FUNCTIONALITY OF SELF-CONTROLLED EQUIPMENT AND BMS CONTROLLED EQUIPMENT.

KEY NOTE:
- PROVIDE MD OR BDD AS REQUIRED BY AHJ