ADDENDUM NO. THREE (3)
ILM TERMINAL IMPROVEMENTS
CONTRACT 3

Date: July 30, 2019

RE: ILM Terminal Improvements Contract 3

From: The Wilson Group
PO Box 5510
Charlotte, NC 28299

To: All Plan Holders

This Addendum is hereby made a part of the contract documents and specifications of the above referenced project. All other requirements of the original specification shall remain in effect in their respective order. Acknowledge receipt of this Addendum by inserting its number and date in the Proposal form.

NOTE

1. THIS ADDENDUM DOES NOT CHANGE BID DATE AND TIME.

PROJECT MANUAL

1. REPLACE the following sections with the sections provided in this Addendum:
   a. 102600 – WALL PROTECTION (AD-03).

2. In the SUPPLEMENTARY INSTRUCTIONS TO BIDDERS, **ADD** Article 4.3.1.3 as follows:
   a. "4.3.1.3 Include the following forms with bid:

- Prohibition of Segregated Facilities (Page B-1),
- Trade Restriction Certification (Pages B-2 and B-3),
- Certification of Offerer/Bidder Regarding Debarment (Page B-4),
- Lobbying and Influencing Federal Employees (Page B-5),
- Certificate of Buy American Compliance for Total Facility and Required Documentation - Schedule 1 (Pages B-6 and B-7),
- Certificate of Buy American Compliance for Total Facility and Required Documentation - Schedule 2 (Pages B-8 and B-9),
- Certificate of Buy American Compliance for Total Facility and Required Documentation - Schedule 2 Bid Alternate (Pages B-10 and B-11),
- Form of Non-Collusion Affidavit (Page B-12),
- Certification of Offerer/Bidder Regarding Tax Delinquency and Felony Convictions (Page B-13),
- Listing of DBE - Schedule 1 (Page B-14),
- Listing of DBE - Schedule 2 (Page B-15),
- Listing of DBE - Schedule 2 - Bid Alternate 1 (Page B-16)."

3. In FAA GENERAL CONDITIONS, Sections 10 through 90, **REVISE** page footers at lower right-hand corner to read" "Terminal Improv. Contract 3."

4. In FAA GENERAL CONDITIONS, Sections 70 and 80, **CHANGE** references to the FAA Advisory Circular entitles "Operational Safety on Airports During Construction" from "AC 150/5370-2F" to read: "AC 150/5370-2G."

5. In FAA GENERAL CONDITIONS, Section 70, **CHANGE** telecommunications utility references from "CenturyLink" to "AT&T and/or other telecommunications land line owners/operators."

6. In the Form of Agreement, **ADD** the following to Article II, Time and Liquidated Damages, sub-article 2.1, Contract Time:
   a. "Schedule 1…….730 Calendar Days."
   b. "Total Project Completion Time of 1095 Calendar days is for Schedule 1 and Schedule 2 and applies with or without Schedule 2 Bid Alternate #1 (Bag Claim Expansion)."

7. In Section 020050 CIVIL SPECIAL PROVISIONS, Item PSP-15, **ADD** the Construction Safety and Phasing Plan (CSPP) document attached to this Addendum.

8. In Section 072119 – FOAMED-IN PLACE INSULATION, **ADD** the following:

   2.4 "OPEN-CELL SPRAY POLYURETHANE FOAM

   A. Open-Cell Spray Polyurethane Foam: Spray-applied polyurethane foam using water as a blowing agent. Minimum density of 0.4 lb/cu. ft. and minimum aged R-value at 1-inch thickness of 3.4 deg F x h x sq. ft./Btu at 75 deg F.

      1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
         a. BASF Corporation
         b. BaySystems North America, LLC
         c. Demilec USA LLC
         d. Gaco Western LLC
         e. Henry Company
         f. Icynene-Lapolla
         g. Johns Manville
         h. NCFI Polyurethanes; a division of Barnhardt Manufacturing Company

      2. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

         a. Flame-Spread Index: 25 or less.
         b. Smoke-Developed Index: 450 or less."

9. In Section 075323 – ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING, **MAKE** the following changes:
   a. **CHANGE** paragraph 2.1 C.1 to read: "Wind Uplift Pressures: As calculated by manufacturer. Bid shall include roofing system complying with wind uplift pressures as required by code, with double the safety factor."
   b. **CHANGE** paragraph 2.1 C.2 to read: "Design Wind Speed: 155 mph."

10. In Section 075419 – POLYVINYL-CHLORIDE (PVC) ROOFING, **MAKE** the following changes:
    a. **CHANGE** paragraph 2.1 C.1 to read: "Wind Uplift Pressures: As calculated by manufacturer. Bid shall include roofing system complying with wind uplift pressures as required by code, with double the safety factor."
    b. **CHANGE** paragraph 2.1 C.2 to read: "Design Wind Speed: 155 mph."

11. In Section 125280 – LOBBY AND WAITING ROOM FURNITURE, **MAKE** the following changes:
    a. **ADD** item 6 to Article 1.1 A to read: "6. Waste/recycle receptacles."
    b. **ADD** Article 2.10 as follows:

"2.10 WASTE/RECYCLE RECEPTACLES

A. Freestanding Waste/Recycle Receptacles:
   1. Basis of Design: Auweko; Temptation Floor Standing Bin FF2
   2. Material: Galvanized steel inner container and stainless-steel outer cover.
   3. Bins: Two."

12. In Section 230500 – HEATING AND AIR CONDITIONING, **MAKE** the following changes:
    a. **REPLACE** Article 230506 AIR HANDLING UNITS, Paragraph Q, with the following: "Q. See drawings for air handling units to be furnished with filtration section for activated carbon filters. Filter material shall be carbon/ceramic extruded mixture baked on to the filter channels. Material shall be tested to and meet ASTM International Standard D664603 for removal of hydrogen sulfide. Carbon filtration media shall be in metallic frame designed to fit in a side access track. Filter tracks shall be factory installed by the air handling unit manufacturer. Performance shall provide removal capacities by weight of 40% for hydrogen sulfide, 15% for sulfur dioxide, 13% for xylene, and 9% for toluene. Activated carbon filters shall be Dynamic ACM or approved equal. Contractor shall not install filters until testing and balancing and area served is clean. Contractor shall leave one complete change of filters sealed in boxes at the building at completion for a future change by Owner."
    b. **REPLACE** Article 230510 TWO STAGE FILTRATION SECTION, with the following:

"230510 HIGH EFFICIENCY FILTRATION SECTION

A. Unit shall have an active electrostatic field that polarizes a dielectric media. It shall not ionize airborne particles or produce ozone. Unit shall be tested and meet UL Standard 867 and CSA Standard C22.2 No. 187-M19986 for Electrostatic Air Cleaners. Unit shall be complete with control panel, power connections, and filter media. Integral control panel shall have controls and transformers as necessary to operate the filters. Power Connection to control panel shall be 120V single phase.
B. Filter shall be high efficiency MERV 15-NC polarized media air cleaners. Overall unit pressure drop shall be 0.30" w.g. initially to 0.75" w.g. for final when change required. The air cleaning system shall be of all-aluminum construction. Contractor shall leave one complete change of media at the building at completion for a future change by Owner.
C. Section shall not include track for pre-filter. To protect the polarized media and duct system as necessary during construction, the Contractor shall provide temporary roll filter media securely over all return air openings to the AHU.

Temporary filters shall be removed for testing and balancing, and permanently removed when area served is clean. Temporary roll filter media shall be 1" thick UL Class 2 88% minimum Average Arrestance based on ASHRAE 52.1 -1992 test method.

D. Air cleaner modules shall be factory installed inside air handling unit cabinet with upstream and downstream access doors located on both sides. All air cleaner modules, mounting posts, and hardware for the air cleaning system shall be all aluminum construction. No tools shall be required for access or filter media removal. Provide factory supplied fixed filter blockoffs, as needed, to prevent air bypass around filters.
E. Units shall be Dynamic Air Quality Solutions Model V8 or approved equal."

c. **REPLACE** Article 230513 CHILLERS, Paragraph C, with the following: "C. Provide complete parts and labor warranty for each entire chiller for ten (10) years. Warranty shall include refrigerant. Warranty period shall commence from date of startup."
d. In Section 230519 PUMPS, Paragraphs A and B, **ADD** the following:
"1. Acceptable manufacturers include Patterson Pumps."

13. **INSERT** the following Specification sections included in this Addendum:
a. 077200 – ROOF ACCESSORIES (AD-03)

DRAWINGS

1. **REPLACE** the following sheets with the sheets provided in this Addendum:
a. G-001 SHEET INDEX VOLUME 1 (AD-03)
b. G-002 SHEET INDEX VOLUME 2 (AD-03)
c. G-004 GENERAL NOTES AND COMCHECK (AD-03). *Note: Added typical door detail.*
d. G-005 PARTITION TYPES (AD-03). *Note: Added partition and stud framing notes.*
e. LS-001 LIFE SAFETY – RAMP LEVEL (AD-03)
f. LS-002 LIFE SAFETY – TICKET/BOARDING LEVEL (AD-03)
g. LS-003 LIFE SAFETY – ADMIN LEVEL (AD-03)
h. C-100 OVERALL PROJECT SAFETY AND ACCESS PLAN (AD-03)
i. C-103 PROJECT SAFETY AND ACCESS PLAN – SCHEDULE 2 WITH BID ALTERNATE (AD-03)
j. C-104 PROJECT SAFETY AND ACCESS PLAN – RESTORATION SCHEDULE 2 WITH BID ALTERNATE (AD-03)
k. C-105 PROJECT SAFETY AND ACCESS PLAN – SCHEDULE 2 WITHOUT BID ALTERNATE (AD-03)
l. C-106 PROJECT SAFETY AND ACCESS PLAN – RESTORATION SCHEDULE 2 WITHOUT BID ALTERNATE (AD-03)
m. C-107 PROJECT SAFETY PLAN NOTES (AD-03)
n. C-401 PROPOSED WATERLINE – SCHEDULE 1 (AD-03)
o. S1-102 PARTIAL FOUNDATION PLAN SCHEDULE 1 ZONE 2 (AD-03)
p. S1-124 PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 1 (AD-03)
q. S1-125 PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 2 (AD-03)
r. S1-126 PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 3 (AD-

03)

s. S1-131 PARTIAL ROOF FRAMING PLAN SCHEDULE 1 ZONE 1 (AD-03)
t. S1-132 PARTIAL ROOF FRAMING PLAN SCHEDULE 1 ZONE 2 (AD-03)
u. S1-133 PARTIAL ROOF FRAMING PLAN SCHEDULE 1 ZONE 3 (AD-03)
v. S1-141 PARTIAL HIGH ROOF FRAMING PLAN SCHEDULE 1 ZONE 1 (AD-03)
w. S1-142 PARTIAL HIGH ROOF FRAMING PLAN SCHEDULE 1 ZONE 2 (AD-03)
x. S2-101 PARTIAL FOUNDATION PLAN SCHEDULE 2 ZONE 1 (AD-03)
y. S2-123 PARTIAL BOARDING LEVEL PLAN SCHEDULE 2 ZONE 3 (AD-03)
z. S2-124 PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 2 ZONE 1 (AD-03)
aa. S2-125 PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 2 ZONE 3 (AD-03)
bb. S2-131 PARTIAL ROOF FRAMING PLAN SCHEDULE 2 ZONE 1 (AD-03)
cc. S2-133 PARTIAL ROOF FRAMING PLAN SCHEDULE 2 ZONE 3 (AD-03)
dd. S2-141 PARTIAL HIGH ROOF PLAN SCHEDULE 2 ZONE 1 (AD-03)
ee. S-201 STRUCTURAL ELEVATIONS (AD-03)
ff. S-202 STRUCTURAL ELEVATIONS (AD-03)
gg. S-211 VERTICAL FRAME ELEVATIONS AND DETAILS (AD-03)
hh. S-251 STRUCTURAL WALL SECTIONS (AD-03)
ii. S-253 STRUCTURAL WALL SECTIONS (AD-03)
jj. S-302 FOUNDATION DETAILS (AD-03)
kk. S-321 ELEVATED CONCRETE DETAILS (AD-03)
ll. S-322 ELEVATED CONCRETE DETAILS (AD-03)
mm. S-341 CONCRETE FLOOR SECTIONS (AD-03)
nn. S-501 STEEL COLUMN SCHEDULES AND DETAILS (AD-03)
oo. S-511 STRUCTURAL FLOOR SECTIONS (AD-03)
pp. S-512 STRUCTURAL FLOOR SECTIONS (AD-03)
qq. S-521 STRUCTURAL ROOF SECTIONS (AD-03)
rr. S-522 STRUCTURAL ROOF SECTIONS (AD-03)
ss. S-523 STRUCTURAL ROOF SECTIONS (AD-03)
tt. S-524 STRUCTURAL ROOF SECTIONS (AD-03)
uu. A1-161 SCHDULE 1 – BOARDING LEVEL RCP ZONE 1 (AD-03). *Note: Adjusted location of ceiling-hung TV monitors to coordinate w/ RCP layout.*
vv. A1-171 SCHEDULE 1 – CLERESTORY RCP (AD-03). *Note: Added detail for pendant light fixture in Clerestory.*
ww. A1-251 SCHEDULE 1 – INTERIOR ELEVATIONS (AD-03). *Note: Revised gate wall notes.*
xx. A1-252 SCHEDULE 1 – INTERIOR ELEVATIONS (AD-03). *Note: Revised gate wall notes.*
yy. A1-253 SCHEDULE 1 – INTERIOR ELEVATIONS (AD-03). *Note: Revised trim detail at signage band along Concourse.*
zz. A1-272 SCHEDULE 1 – ENLARGED INTERIOR ELEVATIONS (AD-03). *Note: Revised trim detail at signage band along Concourse.*
aaa. A1-401 SCHEDULE 1 – ENLARGED FLOOR PLANS (AD-03). *Note: Revised gate wall dimensions.*
bbb. A1-402 SCHEDULE 1 – ENLARGED FLOOR PLANS (AD-03). *Note: Adjusted wall dimensions.*
ccc. A1-411 SCHEDULE 1 – RESTROOM ELEVATIONS (AD-03). *Note: Adjusted wall location.*

ddd. A2-121 SCHEDULE 2 – BOARDING LEVEL FLOOR PLAN ZONE 1 (AD-03). *Note: Added roof access hatch and ladder.*

eee. A2-124 SCHEDULE 2 – TICKET LEVEL FLOOR PLAN ZONE 4 (AD-03). *Note: Adjusted wall bump-out along Column Line A.*

fff. A2-125 SCHEDULE 2 – TICKET LEVEL FLOOR PLAN ZONE 5 (AD-03). *Note: Added fire extinguisher cabinet.*

ggg. A2-141 SCHEDULE 2 – ROOF LEVEL PLAN ZONE 1 (AD-03). *Note: Added roof access hatch.*

hhh. A2-143 SCHEDULE 2 – ROOF LEVEL PLAN ZONE 3 (AD-03). *Note: Added roof drainage area tags.*

iii. A2-161 SCHEDULE 2 – BOARDING LEVEL RCP ZONE 1 (AD-03). *Note: Added roof access hatch.*

jjj. A2-222 SCHEDULE 2 – BUILDING ELEVATIONS (AD-03). *Note: Revised louver layouts to coordinate with Mechanical Drawings.*

kkk. A2-251 SCHEDULE 2 – INTERIOR ELEVATIONS (AD-03). *Note: Revised gate wall notes.*

lll. A2-731 SCHEDULE 2 – BOARDING LEVEL FURNITURE PLAN (AD-03). *Note: Added waste receptacles and updated furniture quantities.*

mmm. A-503 PLAN DETAILS (AD-03). *Note: Revised gate wall detail.*

nnn. A-504 PLAN DETAILS (AD-03). *Note: Revised gate wall detail.*

ooo. A-511 SECTION DETAILS (AD-03). *Note: Revised details to coordinate with Structural framing.*

ppp. A-512 SECTION DETAILS (AD-03). *Note: Revised details to coordinate with Structural framing.*

qqq. A-518 TYPICAL SOFFIT DETAILS (AD-03). *Note: Added roof hatch section detail.*

rrr. A-521 SPECIALTY WALL PANEL SYSTEM DETAILS (AD-03). *Note: Revised details at specialty wall panels (WPS-1). Added elevation detail at Gate Wall Signage.*

sss. A-651 FINISH SCHEDULES (AD-03). *Note: Deleted Rooms under Heading "Not Placed." Added General Finish Notes.*

ttt. A-654 WALL BASE, WALL, AND PANEL REVEAL DETAILS (AD-03). *Note: Revised WB-1 detail.*

uuu. F2-121 SCHEDULE 2 – BOARDING LEVEL PLAN ZONE 1 FIRE PROTECTION (AD-03). *Note: Adjusted sprinklers and piping so as not to cross over roof hatch.*

vvv. P1-112 SCHEDULE 1 – RAMP LEVEL PLAN ZONE 2 PLUMBING (AD-03). *Note: Adjusted roof drain leader invert elevations and coordinated with site plans.*

www. M1-122 SCHEDULE 1 – BOARDING LEVEL MECHANICAL PLAN – ZONE 2 (AD-03). *Note: Shifted BCAHU #10 and associate ductwork plan south to avoid interference with post-mounted, ceiling-hung LED displays.*

xxx. M1-215 SCHEDULE 1 – RAMP LEVEL MECHANICAL PIPING PLAN – ZONE 5 (AD-03). *Note: Revised keyed notes.*

yyy. M1-222 SCHEDULE 1 – BOARDING LEVEL MECHANICAL PIPING PLAN – ZONE 2 (AD-03). *Note: Shifted piping to match new location of BCAHU #10.*

zzz. M1-402 SCHEDULE 1 – ENLARGED COOLING TOWERS (AD-03). *Note: Revised keyed note #6 in multiple places.*

aaaa. M2-114 SCHEDULE 2 – RAMP LEVEL MECHANICAL PLAN – ZONE 4 – ALTERNATE 1 (AD-03). *Note: Shifted Fan F-35 and F-36 plan left. Revised ductwork size from fans to sidewall exhaust air louver.*

bbbb. M2-123 SCHEDULE 2 – TICKET LEVEL MECHANICAL PLAN – ZONE 3 (AD-03). *Note: Reduced length of outside air ductwork.*

cccc. M-601 MECHANICAL SCHEDULES (AD-03). *Note: Added keyed notes #17 & #18 to Air Handling Unit Schedule.*

dddd. E-001 ELECTRICAL NOTES, SHEET LIST, & APPENDIX B SUMMARY (AD-03). *Note: Added E2-146 to the sheet list.*

eeee. E-002 ELECTRICAL LEGENDS (AD-03). *Note: Updated receptacle legend to include outlets for illuminated signs and illuminated gate signs. Updated data & telephone outlet legend to include exit lane data outlets.*

ffff. E1-109 SCHEDULE 1 – ELECTRICAL SITE PLAN (AD-03). *Note: Added handhole for underground fiber optic route from Building Management A11 to Public Safety Building. Added two hot box heater outlets. Added location for panel 2IB and 2OB.*

gggg. E1-111 SCHEDULE 1 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1 (AD-03). *Note: Added power control panel integral to AHU #11 and AHU #7.*

hhhh. E1-112 SCHEDULE 1 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 2 (AD-03). *Note: Added power control panel integral to AHU #8, AHU #9, and AHU #10.*

iiii. E1-132 SCHEDULE 1 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 2 (AD-03). *Note: Added tamper switch in Airline A1120.*

jjjj. E1-141 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1 (AD-03). *Note: Relocated outlets for seat power from floor to adjacent wall. Added second outlet in three locations for TV monitors. Updated monitor outlet location. Added outlet for illuminated gate sign over gate door. Updated power to match water heater specs.*

kkkk. E1-142 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2 (AD-03). *Note: Added second outlet in three locations for TV monitors. Removed monitor outlet from now un-used location. Added outlet for illuminated gate sign over three gate doors. Added illuminated mirror in Family Restroom A1224 and Mother's Room A1225.*

llll. E1-143 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3 (AD-03). *Note: Updated mechanical equipment BCAHU #6 location.*

mmmm. E1-151 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1 (AD-03). *Note: Removed wall sconces in Clerestory. Added LED millwork lights and circuitry.*

nnnn. E1-152 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 2 (AD-03). *Note: Removed wall sconces in Clerestory. Added LED millwork lights and circuitry. Added Cupola Luminaire Schedule. Added Cupola lighting.*

oooo. E1-161 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 1 (AD-03). *Note: Added tamper switch and monitor module above ceiling. Added second data outlet for TV monitors in three locations. Moved TV data outlet to new TV location. Moved floor data box for gate pedestal to new location.*

pppp. E1-162 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 2 (AD-03). *Note: Added six data outlets on wall in observation area. Added data outlet at each of the three gates for back display monitors. Added second data outlet in three locations for TV monitors. Removed TV outlet that is no longer needed. Move three floor outlet poke-throughs to new gate pedestal location. Added tamper switch in future room A1210.*

qqqq. ED2-124 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL DEMOLITION PLAN ZONE 4 (AD-03). *Note: Added note for reworking or relocating electrical circuitry and devices in slab cutout area.*

rrrr. E2-111 SCHEDULE 2 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1 (AD-03). *Note: Added power control panel integral to AHU #3.*

ssss. E2-113 SCHEDULE 2 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 3 (AD-03). *Note: Added power control panel integral to AHU #4.*

tttt. E2-131 SCHEDULE 2 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 1 (AD-03). *Note: Added tamper switch in future room A2101.*

uuuu. E2-140 SCHEDULE 2 – ELECTRICAL BOARDING/TICKET LEVEL OVERALL PLAN (AD-03). *Note: Added E2-146 Power to match line.*

vvvv. E2-141 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1 (AD-03). *Note: Added outlet for illuminated gate sign. Added outlet for back display TV monitor on wall. Added outlet for floor mounted outlet for gate pedestal. Added second outlet for TV monitor in ceiling. Removed four outlets for power seats as they are indicated on E1-141. Change power to match water heater specs.*

wwww. E2-142 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2 (AD-03). *Note: Removed floor outlets for power seats as they are indicated on E1-142.*

xxxx. E2-143 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3 (AD-03). *Note: Added Folding Door #3 equipment requirements.*

yyyy. E2-145 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 5 (AD-03). *Note: Added power for LED mirrors. Added power and switch for illuminated sign.*

zzzz. E2-146 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 6 (AD-03). *Note: Added power and switch for illuminated sign.*

aaaaa. E2-151 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1 (AD-03). *Note: Removed wall sconces in Clerestory. Added LED millwork lights and circuitry.*

bbbbb. E2-154 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 4 (AD-03). *Note: Added LED millwork lights and circuitry. Added dimmer schedule circuitry to light fixture types HB.*

ccccc. E2-155 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 5 (AD-03). N*ote: Added lighting and controls to Pass SVC A2506 and Corridor A2274.*

ddddd. E2-161 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 1 (AD-03). *Note: Added second data outlet for TV monitors.*

eeeee. E2-165 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 5 (AD-03). *Note: Added six sets of card readers. Added exit lane data outlets.*

fffff. E-601 ELECTRICAL LUMINAIRE, DIMMER, AND RELAY SCHEDULE (AD-03). *Note: Updated light fixture Type "HE" manufacturer/model. Updated light fixture Type "HL" model. Added light fixture Type "HM" to the Luminaire Schedule. Added note #2 to bottom of Luminaire Schedule. Added channels 49-60 to DMX Schedule.*

ggggg. E-602 ELECTRICAL EQUIPMENT CIRCUITRY SCHEDULES (AD-03). *Note: Added AHU Control Panel circuitry requirements to Air Handling Unit Equipment Schedule. Added Folding Door #3 to Miscellaneous Equipment Schedule.*

hhhhh. E-703 ELECTRICAL MISCELLANEOUS RISER DIAGRAMS (AD-03). *Note: Removed "Schedule 1" from sheet title. Added grounding system for new generators.*

iiiii. AG-6 (AD-03). *Note: Changed size of gate signage.*

2. **INSERT** the following sheets included in this Addendum:
   a. E2-146 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 6 (AD-03). *Note: Added power and switch for illuminated sign.*
   b. SK C-405-1. *Note: Drawing Sketch (sheets 1 and 2) is being issued to supplement Drawing*

C-405.

c. S0-003 STATEMENT OF SPECIAL INSPECTIONS (AD-03)
d. S0-004 STATEMENT OF SPECIAL INSPECTIONS (AD-03)
e. S-513 STRUCTURAL FLOOR SECTIONS (AD-03)

3. On sheet C-405 PROPOSED REDUCED PRESSURE DETECTOR ASSEMBLY DETAILS (AD-02), **ADD** the following: "Add SUE information pertinent to the RPDA valve installations. See attached sketch SK C-405-1. Adjust location of proposed 12" cut-in valve, bag claim wing area, by a few feet to avoid existing pole light electrical line and unknown conduit (probably FO data line to parking lot exit booths)."

4. On sheet A-010 RAMP LEVEL SCHEDULE DIAGRAM, **CHANGE** the designation of the existing area to the plan right of the proposed alternate inbound bag makeup from "Schedule 2 Alt. 1 New Covered" to "Schedule 2 Existing Renovated Area".

5. On sheet A-011 BOARDING/TICKET LEVEL SCHEDULE DIAGRAM, **CHANGE** the designation of the new area at the Bag Claim area from "Schedule 2 Alt. 1 New Covered" to "Schedule 2 Alt. 1 New Enclosed".

6. On sheets A1-120 SCHEDULE 1 – BOARDING/TICKET LEVEL OVERALL PLAN and A1-160 SCHEDULE 1 – BOARDING/TICKET LEVEL OVERALL RCP, **CHANGE** the existing bay at Gate 1 from "Existing Enclosed Area" to "Schedule 1 Existing Renovated Area".

7. On sheet A2-721 SCHEDULE 2 – BOARDING LEVEL FINISH FLOOR PLAN ZONE 1, **CHANGE** the designation of the flooring at the former restaurant area from "CPT-1" to "Existing".

8. On sheet A-292 CASEWORK, **ADD** the following note: "Provide anchorage to decking as required."

9. On sheet A-661 FINISH LEGEND, under "Wall Base" **ADD** the following: "WB-1. Notes: See Detail A/A-654."

10. On sheets A-514, A-653, and all sheets where "MDF BASE" is referenced, **CHANGE** all instances to read "WB-1."

11. On RCP sheets A1-161, A1-162, A1-163, A1-170, A1-171, A1-405, A1-406, A2-161, A2-163, A2-164, A2-165, A2-171, A2-419, A2-420, A2-421, A2-422, and all sheets where "STROBE" or "HORN STROBE" is referenced, **CHANGE** all instances to read "SPEAKER/STROBE, SEE FIRE PROTECTION FOR MORE INFORMATION, TYP." On the RCP Legend, **CHANGE** "HORN STROBE" to read "SPEAKER/STROBE."

12. On Restroom Elevation sheets A1-411 through A1-414 and A2-411 through A2-417 **CHANGE** 9" high TRB-1 to 6" high and begin wall tile coursing from top of terrazzo base. *Note: changed base height to reduce number of cut wall tiles.*

13. On all sheets where "RIGID BOARD INSULATION W/ WHITE FOIL FACING" is referenced, **CHANGE** all instances to read "OPEN-CELL SPRAY POLYURETHANE FOAM INSULATION WITH IGNITION BARRIER". *Note: Changed insulation type at underside of Ticketing/Boarding floor. R-Values indicated on drawings do not change.*

QUESTIONS AND ANSWERS

1. QUESTION: Who is to build barrier walls for work on the claim area?
   ANSWER: The barrier walls are to be provided by the General Contractor. It is the GCs responsibility to coordinate the scope with his sub-contractors.

2. QUESTION: Can we get CLX approved as a preferred controls contractor?
   ANSWER: As described in Section 347739-1.6.C, the Bidder and the BHS Controls Subcontractor (CLX) shall meet the requirements for BHS Contractor Qualifications. The Bidder shall include information in their bid verifying that they meet these criteria.

3. QUESTION: Porters-I don't see there would be a need, but if there is, please verify who will be responsible for them.
   ANSWER: Porter requirements described in Section 347739-1.2.K (while the conveyor equipment is out of service such as when all carriers are using a single claim device and associated inbound feed conveyor) and would be supplied by GC at unit price identified on bid form.

4. QUESTION: I cannot find the phasing implementation schedule. Can you please point me in that direction?
   ANSWER: Requirements for the BHS Phased Implementation Summary are described in Section 347739-3.9.

5. QUESTION: There is mention of a PM office; please clarify.
   ANSWER: Project Management Office requirements described in Section 347739-4.1.F. It is anticipated that this can be accommodated in the GC's job trailer / offices.

6. QUESTION: I saw no mention of stand-by in the specifications. Please verify there is no stand-by required.
   ANSWER: Requirements for the one month Conditional Acceptance Operational Period / Stand-By support services are described in Section 347739-4.2.B.8.

7. QUESTION: I do not see the vehicular barriers on the Structural Drawings. Can you provide details and specifications?
   ANSWER: See details for the vehicular barriers added to Drawing S-302 in Addendum 1.

8. QUESTION: Are there any upper level communications needed for BHS?
   ANSWER: Per the specified requirements (347739-1.1.C and 1.2.G, as well as various other sections of the bid documents), the scope of work shall include the necessary connections of the proposed new Inbound BHS to a PC-type Computer Terminal Workstation, which is planned to be installed under Contract 2 and located at the Building Management Room, lower level of the Terminal Building. The requirements for this project include modifications and updates to the BHS PC-type Computer Terminal Workstation for the addition of the inbound BHS, as well as furnishing and installing all required PLC hardware/programming to satisfy the specified requirements (e.g., memory capacity, the necessary interlocks/interfaces, to incorporate each sequence of the phased-in scope of work.

9. QUESTION: On Drawing B-700, it shows removal of side guard. Is there anything else that needs to be done to that conveyor?
   ANSWER: No, the design intent of this requirement is to provide double-sided access to the unload belt. Ensure that all work is clean and free of any field cut edges and welds of burrs, and slag and grind smooth.

10. QUESTION: Who is responsible for the dog house and access panels on Drawing B-300?
    ANSWER: The doghouse and access panels are part of the General Contractor's scope of work (not the BHS), that shall be reviewed and coordinated with the BHS Contractor's conveyor equipment, necessary maintenance access, and associated right-of-way.

11. QUESTION: Is the bidder's qualification mentioned in Addendum #1 just for the GC?
    ANSWER: BHS Contractor qualifications are described in section 347739-1.6.C.

12. QUESTION: Can the BHS price schedule in the bid form be turned in after award of the project?
    ANSWER: Yes. Refer to Supplementary Instructions to Bidders section 6.3.

13. QUESTION: Please confirm the BHS scope in its entirety will fall under Schedule 2 Bid Alternate #1.
    ANSWER: Correct.

14. QUESTION: Please confirm that an AB CompactLogix PLC is approved for use on the BHS system?
    ANSWER: PLC requirements are specified under 347739-2.11.C, with an approved list of vendors under 347716-2.1.D.3.h.2.

15. QUESTION: On Drawing A1-112 it shows Jet Bridge tie downs in concrete and notes reference Structural Drawings. These tie downs are not shown on the Structural Drawings. Can you provide details?
    ANSWER: See detail for Jet Bridge tie downs added to Drawing S-302 in Addendum 1.

16. QUESTION: Can you provide a list of what DBE forms are to be submitted with bid?
    ANSWER: See attached DBE forms and clarifications to the Supplementary Instructions to Bidders included in this Addendum.

ATTACHMENTS

1. Bid Proposal attachments (B-1 through B-16)
2. Construction Safety and Phasing Plan (CSPP)
3. 077200 – ROOF ACCESSORIES (AD-03)
4. 102600 – WALL PROECTION (AD-03)
5. G-001 SHEET INDEX VOLUME 1 (AD-03)
6. G-002 SHEET INDEX VOLUME 2 (AD-03)
7. G-004 GENERAL NOTES AND COMCHECK (AD-03)

8. G-005 PARTITION TYPES (AD-03)
9. LS-001 LIFE SAFETY – RAMP LEVEL (AD-03)
10. LS-002 LIFE SAFETY – TICKET/BOARDING LEVEL (AD-03)
11. LS-003 LIFE SAFETY – ADMIN LEVEL (AD-03)
12. C-100 OVERALL PROJECT SAFETY AND ACCESS PLAN (AD-03)
13. C-103 PROJECT SAFETY AND ACCESS PLAN – SCHEDULE 2 WITH BID ALTERNATE (AD-03)
14. C-104 PROJECT SAFETY AND ACCESS PLAN – RESTORATION SCHEDULE 2 WITH BID ALTERNATE (AD-03)
15. C-105 PROJECT SAFETY AND ACCESS PLAN – SCHEDULE 2 WITHOUT BID ALTERNATE (AD-03)
16. C-106 PROJECT SAFETY AND ACCESS PLAN – RESTORATION SCHEDULE 2 WITHOUT BID ALTERNATE (AD-03)
17. C-107 PROJECT SAFETY PLAN NOTES (AD-03)
18. C-401 PROPOSED WATERLINE – SCHEDULE 1 (AD-03)
19. SK C-405-1 (AD-03)
20. S0-003 STATEMENT OF SPECIAL INSPECTIONS (AD-03)
21. S0-004 STATEMENT OF SPECIAL INSPECTIONS (AD-03)
22. S1-102 PARTIAL FOUNDATION PLAN SCHEDULE 1 ZONE 2 (AD-03)
23. S1-124 PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 1 (AD-03)
24. S1-125 PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 2 (AD-03)
25. S1-126 PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 3 (AD-03)
26. S1-131 PARTIAL ROOF FRAMING PLAN SCHEDULE 1 ZONE 1 (AD-03)
27. S1-132 PARTIAL ROOF FRAMING PLAN SCHEDULE 1 ZONE 2 (AD-03)
28. S1-133 PARTIAL ROOF FRAMING PLAN SCHEDULE 1 ZONE 3 (AD-03)
29. S1-141 PARTIAL HIGH ROOF FRAMING PLAN SCHEDULE 1 ZONE 1 (AD-03)
30. S1-142 PARTIAL HIGH ROOF FRAMING PLAN SCHEDULE 1 ZONE 2 (AD-03)
31. S2-101 PARTIAL FOUNDATION PLAN SCHEDULE 2 ZONE 1 (AD-03)
32. S2-123 PARTIAL BOARDING LEVEL PLAN SCHEDULE 2 ZONE 3 (AD-03)
33. S2-124 PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 2 ZONE 1 (AD-03)
34. S2-125 PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 2 ZONE 3 (AD-03)
35. S2-131 PARTIAL ROOF FRAMING PLAN SCHEDULE 2 ZONE 1 (AD-03)
36. S2-133 PARTIAL ROOF FRAMING PLAN SCHEDULE 2 ZONE 3 (AD-03)
37. S2-141 PARTIAL HIGH ROOF PLAN SCHEDULE 2 ZONE 1 (AD-03)
38. S-201 STRUCTURAL ELEVATIONS (AD-03)
39. S-202 STRUCTURAL ELEVATIONS (AD-03)
40. S-211 VERTICAL FRAME ELEVATIONS AND DETAILS (AD-03)
41. S-251 STRUCTURAL WALL SECTIONS (AD-03)
42. S-253 STRUCTURAL WALL SECTIONS (AD-03)
43. S-302 FOUNDATION DETAILS (AD-03)
44. S-321 ELEVATED CONCRETE DETAILS (AD-03)
45. S-322 ELEVATED CONCRETE DETAILS (AD-03)
46. S-341 CONCRETE FLOOR SECTIONS (AD-03)
47. S-501 STEEL COLUMN SCHEDULES AND DETAILS (AD-03)
48. S-511 STRUCTURAL FLOOR SECTIONS (AD-03)
49. S-512 STRUCTURAL FLOOR SECTIONS (AD-03)
50. S-513 STRUCTURAL FLOOR SECTIONS (AD-03)
51. S-521 STRUCTURAL ROOF SECTIONS (AD-03)
52. S-522 STRUCTURAL ROOF SECTIONS (AD-03)

53. S-523 STRUCTURAL ROOF SECTIONS (AD-03)
54. S-524 STRUCTURAL ROOF SECTIONS (AD-03)
55. A1-161 SCHEDULE 1 – BOARDING LEVEL RCP ZONE 1 (AD-03)
56. A1-171 SCHEDULE 1 – CLERESTORY RCP (AD-03)
57. A1-251 SCHEDULE 1 – INTERIOR ELEVATIONS (AD-03)
58. A1-252 SCHEDULE 1 – INTERIOR ELEVATIONS (AD-03)
59. A1-253 SCHEDULE 1 – INTERIOR ELEVATIONS (AD-03)
60. A1-272 SCHEDULE 1 – ENLARGED INTERIOR ELEVATIONS (AD-03)
61. A1-401 SCHEDULE 1 – ENLARGED FLOOR PLANS (AD-03)
62. A1-402 SCHEDULE 1 – ENLARGED FLOOR PLANS (AD-03)
63. A1-411 SCHEDULE 1 – RESTROOM ELEVATIONS (AD-03)
64. A2-121 SCHEDULE 2 – BOARDING LEVEL FLOOR PLAN ZONE 1 (AD-03)
65. A2-124 SCHEDULE 2 – TICKET LEVEL FLOOR PLAN ZONE 4 (AD-03)
66. A2-125 SCHEDULE 2 – TICKET LEVEL FLOOR PLAN ZONE 5 (AD-03)
67. A2-141 SCHEDULE 2 – ROOF LEVEL PLAN ZONE 1 (AD-03)
68. A2-143 SCHEDULE 2 – ROOF LEVEL PLAN ZONE 3 (AD-03)
69. A2-161 SCHEDULE 2 – BOARDING LEVEL RCP ZONE 1 (AD-03)
70. A2-222 SCHEDULE 2 – BUILDING ELEVATIONS (AD-03)
71. A2-251 SCHEDULE 2 – INTERIOR ELEVATIONS (AD-03)
72. A2-731 SCHEDULE 2 – BOARDING LEVEL FURNITURE PLAN (AD-03)
73. A-503 PLAN DETAILS (AD-03)
74. A-504 PLAN DETAILS (AD-03)
75. A-511 SECTION DETAILS (AD-03)
76. A-512 SECTION DETAILS (AD-03)
77. A-518 TYPICAL SOFFIT DETAILS (AD-03)
78. A-521 SPECIALTY WALL PANEL SYSTEM DETAILS (AD-03)
79. A-651 FINISH SCHEDULES (AD-03)
80. A-654 WALL BASE, WALL, AND PANEL REVEAL DETAILS (AD-03)
81. F2-121 SCHEDULE 2 – BOARDING LEVEL PLAN ZONE 1 FIRE PROTECTION (AD-03)
82. P1-112 SCHEDULE 1 – RAMP LEVEL PLAN ZONE 2 PLUMBING (AD-03)
83. M1-122 SCHEDULE 1 – BOARDING LEVEL MECHANICAL PLAN – ZONE 2 (AD-03)
84. M1-215 SCHEDULE 1 – RAMP LEVEL MECHANICAL PIPING PLAN – ZONE 5 (AD-03)
85. M1-222 SCHEDULE 1 – BOARDING LEVEL MECHANICAL PIPING PLAN – ZONE 2 (AD-03)
86. M1-402 SCHEDULE 1 – ENLARGED COOLING TOWERS (AD-03)
87. M2-114 SCHEDULE 2 – RAMP LEVEL MECHANICAL PLAN – ZONE 4 – ALTERNATE 1 (AD-03)
88. M2-123 SCHEDULE 2 – TICKET LEVEL MECHANICAL PLAN – ZONE 3 (AD-03)
89. M-601 MECHANICAL SCHEDULES (AD-03)
90. E-001 ELECTRICAL NOTES, SHEET LIST, & APPENDIX B SUMMARY (AD-03)
91. E-002 ELECTRICAL LEGENDS (AD-03)
92. E1-109 SCHEDULE 1 – ELECTRICAL SITE PLAN (AD-03)
93. E1-111 SCHEDULE 1 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1 (AD-03)
94. E1-112 SCHEDULE 1 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 2 (AD-03)
95. E1-132 SCHEDULE 1 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 2 (AD-03)
96. E1-141 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1 (AD-03)
97. E1-142 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2 (AD-03)
98. E1-143 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3 (AD-03)
99. E1-151 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1 (AD-03)

100. E1-152 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 2 (AD-03)
101. E1-161 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 1 (AD-03)
102. E1-162 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 2 (AD-03)
103. ED2-124 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL DEMOLITION PLAN ZONE 4 (AD-03)
104. E2-111 SCHEDULE 2 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1 (AD-03)
105. E2-113 SCHEDULE 2 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 3 (AD-03)
106. E2-131 SCHEDULE 2 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 1 (AD-03)
107. E2-140 SCHEDULE 2 – ELECTRICAL BOARDING/TICKET LEVEL OVERALL PLAN (AD-03)
108. E2-141 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1 (AD-03)
109. E2-142 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2 (AD-03)
110. E2-143 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3 (AD-03)
111. E2-145 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 5 (AD-03)
112. E2-146 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 6 (AD-03)
113. E2-151 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1 (AD-03)
114. E2-154 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 4 (AD-03)
115. E2-155 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 5 (AD-03)
116. E2-161 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 1 (AD-03)
117. E2-165 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 5 (AD-03)
118. E-601 ELECTRICAL LUMINAIRE, DIMMER, AND RELAY SCHEDULE (AD-03)
119. E-602 ELECTRICAL EQUIPMENT CIRCUITRY SCHEDULES (AD-03)
120. E-703 ELECTRICAL MISCELLANEOUS RISER DIAGRAMS (AD-03)
121. AG-6 (AD-03)

END OF ADDENDUM NO. THREE (3)

PROHIBITION OF SEGREGATED FACILITIES

(a) The Contractor agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Contractor agrees that a breach of this clause is a violation of the Equal Opportunity clause in this contract.

(b) "Segregated facilities," as used in this clause, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.

(c) The Contractor shall include this clause in every subcontract and purchase order that is subject to the Equal Opportunity clause of this contract.

_____ _____

Signature of Contractor Date

_____

Title

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S. C. 1001.

(Reference: 41 CFR § 60)

TRADE RESTRICTION CERTIFICATION

By submission of an offer, the Offeror certifies that with respect to this solicitation and any resultant contract, the Offeror:

a. is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms as published by the Office of the United States Trade Representative (U.S.T.R.);
b. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the U.S.T.R; and
c. has not entered into any subcontract for any product to be used on the Federal on the project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

The Offeror/Contractor must provide immediate written notice to the Owner if the Offeror/Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The Contractor must require subcontractors provide immediate written notice to the Contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an Offeror or subcontractor:

(1) who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R. or
(2) whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such U.S.T.R. list or
(3) who incorporates in the public works project any product of a foreign country on such U.S.T.R. list;

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

The Offeror agrees that, if awarded a contract resulting from this solicitation, it will

incorporate this provision for certification without modification in in all lower tier subcontracts. The contractor may rely on the certification of a prospective subcontractor that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by U.S.T.R, unless the Offeror has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the Owner cancellation of the contract or subcontract for default at no cost to the Owner or the FAA.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

_____ _____

Signature of Contractor Date

_____

Title

(Reference: 49 U.S.C. § 50104; 49 CFR part 30)

CERTIFICATION OF OFFERER/BIDDER REGARDING DEBARMENT
(Bidder or Offeror Certification)

By submitting a bid/proposal under this solicitation, the bidder or offeror certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

CERTIFICATION OF LOWER TIER CONTRACTORS REGARDING DEBARMENT
(Lower Tier Contract Certification)

The successful bidder, by administering each lower tier subcontract that exceeds $25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

1. Checking the System for Award Management at website: http://www.sam.gov

2. Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Bidder or Offeror), above.

3. Inserting a clause or condition in the covered transaction with the lower tier contract

If the FAA later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

_____ _____
Signature of Contractor Date

_____
Title

(Reference: 2 CFR part 180 (Subpart C), 2 CFR part 1200, DOT Order 4200.5)

LOBBYING AND INFLUENCING FEDERAL EMPLOYEES

The bidder or offeror certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder or Offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

_____ _____

Signature of Contractor Date

_____

Title

(<u>Reference</u>: 31 U.S.C. § 1352 – Byrd Anti-Lobbying Amendment; 2 CFR part 200, Appendix II(J); 49 CFR part 20, Appendix A)

CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR TOTAL FACILITY

Certificate for Schedule 1

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one of the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (i.e. not both) by inserting a checkmark (✓) or the letter "X".

☐ (A) Bidder or offeror hereby certifies that it will comply with 49 USC. 50101 by:

a) Only installing steel and manufactured products produced in the United States; or
b) Installing manufactured products for which the FAA has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

1. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
2. To faithfully comply with providing US domestic products.
3. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

☐ (B) The bidder or offeror hereby certifies it cannot comply with the 100% Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

1. To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that support the type of waiver being requested. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination that may result in rejection of the proposal.
2. To faithfully comply with providing US domestic products at or above the approved US domestic content percentage as approved by the FAA.
3. To furnish US domestic product for any waiver request that the FAA rejects.
4. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

REQUIRED DOCUMENTATION

Type 3 Waiver - The cost of components and subcomponents produced in the United States is more that 60% of the cost of all components and subcomponents of the "facility". The required documentation for a type 3 waiver is:

a) Listing of all manufactured products that are not comprised of 100% US domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
c) Percentage of non-domestic component and subcomponent cost as compared to total "facility" component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.

Type 4 Waiver - Total cost of project using US domestic source product exceeds the total project cost using non-domestic product by 25%. The required documentation for a type 4 of waiver is:

a) Detailed cost information for total project using US domestic product
b) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Certificate for Schedule 1

Date	Signature
Company Name	Title

CERTIFICATE OF BUY AMERICAN COMPLIANCE
FOR TOTAL FACILITY

Certificate for Schedule 2

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one of the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (i.e. not both) by inserting a checkmark (✓) or the letter "X".

☐ (A) Bidder or offeror hereby certifies that it will comply with 49 USC. 50101 by:

d) Only installing steel and manufactured products produced in the United States; or
e) Installing manufactured products for which the FAA has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
f) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

4. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
5. To faithfully comply with providing US domestic products.
6. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

☐ (B) The bidder or offeror hereby certifies it cannot comply with the 100% Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

5. To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that support the type of waiver being requested. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination that may result in rejection of the proposal.
6. To faithfully comply with providing US domestic products at or above the approved US domestic content percentage as approved by the FAA.
7. To furnish US domestic product for any waiver request that the FAA rejects.
8. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

REQUIRED DOCUMENTATION

Type 3 Waiver - The cost of components and subcomponents produced in the United States is more that 60% of the cost of all components and subcomponents of the "facility". The required documentation for a type 3 waiver is:

d) Listing of all manufactured products that are not comprised of 100% US domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
e) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
f) Percentage of non-domestic component and subcomponent cost as compared to total "facility" component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.

Type 4 Waiver - Total cost of project using US domestic source product exceeds the total project cost using non-domestic product by 25%. The required documentation for a type 4 of waiver is:

c) Detailed cost information for total project using US domestic product
d) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Certificate for Schedule 2

Date	Signature
Company Name	Title

CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR TOTAL FACILITY

Certificate for Schedule 2 Bid Alternate (Bag Claim Expansion)

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one of the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (i.e. not both) by inserting a checkmark (✓) or the letter "X".

☐ (A) Bidder or offeror hereby certifies that it will comply with 49 USC. 50101 by:

g) Only installing steel and manufactured products produced in the United States; or
h) Installing manufactured products for which the FAA has issued a waiver as indicated by inclusion on the current FAA Nationwide Buy American Waivers Issued listing; or
i) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

7. To provide to the Owner evidence that documents the source and origin of the steel and manufactured product.
8. To faithfully comply with providing US domestic products.
9. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

☐ (B) The bidder or offeror hereby certifies it cannot comply with the 100% Buy American Preferences of 49 USC § 50101(a) but may qualify for either a Type 3 or Type 4 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

9. To the submit to the Owner within 15 calendar days of the bid opening, a formal waiver request and required documentation that support the type of waiver being requested. That failure to submit the required documentation within the specified timeframe is cause for a non-responsive determination that may result in rejection of the proposal.
10. To faithfully comply with providing US domestic products at or above the approved US domestic content percentage as approved by the FAA.
11. To furnish US domestic product for any waiver request that the FAA rejects.
12. To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the FAA determines justified.

REQUIRED DOCUMENTATION

Type 3 Waiver - The cost of components and subcomponents produced in the United States is more that 60% of the cost of all components and subcomponents of the "facility". The required documentation for a type 3 waiver is:

g) Listing of all manufactured products that are not comprised of 100% US domestic content (Excludes products listed on the FAA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
h) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
i) Percentage of non-domestic component and subcomponent cost as compared to total "facility" component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.

Type 4 Waiver - Total cost of project using US domestic source product exceeds the total project cost using non-domestic product by 25%. The required documentation for a type 4 of waiver is:

e) Detailed cost information for total project using US domestic product
f) Detailed cost information for total project using non-domestic product

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Federal Aviation Administration and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Certificate for Schedule 2 Bid Alternate (Bag Claim Expansion)

Date	Signature
Company Name	Title

FORM OF NON-COLLUSION AFFIDAVIT
(This Affidavit is Part of the Proposal)

STATE OF _____

COUNTY OF _____

_____
being first duly sworn, deposes and says that he/she is

_____
(Sole owner, a partner, president, secretary, etc.)

of _____
the party making the foregoing Proposal that such Proposal is genuine and not collusive or sham; that said Offeror has not colluded, conspired, connived, or agreed directly or indirectly, with any Offeror or person, to put in a sham Proposal, or that such other person shall refrain from submitting a proposal and has not in any manner, directly or indirectly sought by agreement or collusion, or communication or conference, with any person, to fix the proposal price of affiant or any other Offeror, or to fix any overhead, profit or cost element of said proposal price, or of that of any other Offeror or to secure any advantage against OWNER any person interested in the proposed Contract; and that all statements in said Proposal are true; and further, that such Offeror has not, directly or indirectly submitted this proposal, or the contents thereof, or divulged information or date relative to any association or to any member or agent thereof.

_____
Signature of Offeror

Sworn to and subscribed before me this _____ day of _____, 2017.

(Official Seal)

_____
Official Signature of Notary

_____, Notary Public
Notary's Printed or Typed Name

My Commission expires _____, 20___

CERTIFICATION OF OFFERER/BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS

The applicant must complete the following two certification statements. The applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark (✓) in the space following the applicable response. The applicant agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification in all lower tier subcontracts.

Certifications

1) The applicant represents that it is ( ) is not ( ) a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

2) The applicant represents that it is ( ) is not ( ) is not a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

Date	Signature
Company Name	Title

(Reference: Sections 415 and 416 of Title IV, Division L of the Consolidated Appropriations Act, 2014 (Pub. L. 113-76), and similar provisions in subsequent appropriations acts.

DOT Order 4200.6 - Requirements for Procurement and Non-Procurement Regarding Tax Delinquency and Felony Convictions)

The Bidder hereby proposes the following DBE participation in accordance with Appendix C:

DBE Subcontractor or Supplier Name and Address	NCDOT Reporting Number	Cert. Type (DBE)	Work To Be Performed	Subcontract Amount	Amount Applicable to Goal
				Total Applicable DBE Participation	
				Base Bid Amount	
				DBE Participation Proposed (%)	
				DBE Participation Goal (%)	**7.4%**

Bidder (Firm Name)	Signature	Date

Bidder must complete above “Listing of DBE Subcontractors” form and submit with bid. Letters of Intent must be submitted by the apparent low bidder for all DBE subcontractors no later than 2:00 pm of the fifth calendar day following opening of bids, unless the fifth day falls on Saturday, Sunday or an official state holiday. In that situation, it is due in the office of the Airport Director no later than 10:00 am on the next official state business day.

The Bidder hereby proposes the following DBE participation in accordance with Appendix C:

DBE Subcontractor or Supplier Name and Address	NCDOT Reporting Number	Cert. Type (DBE)	Work To Be Performed	Subcontract Amount	Amount Applicable to Goal
				Total Applicable DBE Participation	
				Base Bid Amount	
				DBE Participation Proposed (%)	
				DBE Participation Goal (%)	**7.4%**

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The Bidder hereby proposes the following DBE participation in accordance with Appendix C:

DBE Subcontractor or Supplier Name and Address	NCDOT Reporting Number	Cert. Type (DBE)	Work To Be Performed	Subcontract Amount	Amount Applicable to Goal
				Total Applicable DBE Participation	
				Base Bid Amount	
				DBE Participation Proposed (%)	
				DBE Participation Goal (%)	**7.4%**

Bidder (Firm Name)	Signature	Date

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CONSTRUCTION SAFETY AND PHASING PLAN (CSPP)

TERMINAL IMPROVEMENTS CONTRACT 3

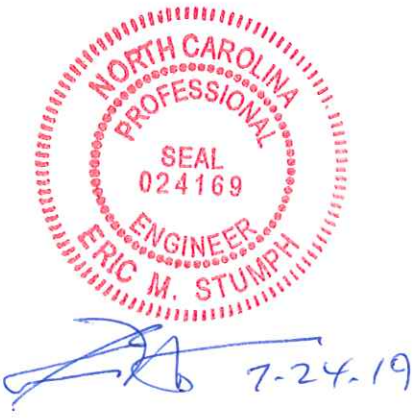
WILMINGTON INTERNATIONAL AIRPORT (ILM)
WILMINGTON, NORTH CAROLINA

Prepared For:
NEW HANOVER COUNTY AIRPORT AUTHORITY

In Cooperation With:
FEDERAL AVIATION ADMINISTRATION
And
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION – DIVISION OF AVIATION

Engineer:
TALBERT & BRIGHT, INC.
Engineering and Planning Consultants
4810 Shelley Drive
Wilmington, NC 28405
(910) 763-5350

TBI No. 3301-1801
May 2019
NC Engineering License No. C-0713



Construction Safety and Phasing Plan (CSPP)
Terminal Improvements – Contract 3
Wilmington International Airport (ILM)

May 2019

Introduction

This project includes work as part of a multi-phase project to renovate and expand the terminal at the Wilmington International Airport. Work under this contract includes airline gate concourse expansion; the new connector structure; the bag claim wing expansion; passenger screening checkpoint improvements, two new bag claim carousels; three new passenger boarding bridges; new mechanical and electrical rooms; replacement of aging electrical and mechanical equipment; expanded apron level office spaces; a secure side SARA; and secure side restaurant and retail concession spaces. Work will be phased to keep the terminal and operations continuous during construction. The inbound baggage expansion is a bid alternate to the project and will be constructed if funds are available.

The project will include installation of continuous concrete barriers with chain-link fence to fence out the construction and staging areas from the active Air Carrier Apron. This barrier/fence line will establish a non-SIDA work are within the Airport security perimeter. Baggage carts will be routed around the concrete barriers. Construction traffic will cross the baggage tug path through a gated entrance portal.

This Construction Safety and Phasing Plan has been prepared in accordance with FAA Advisory Circular (AC) 150/5370-2G. The Plan is organized into 18 chapters corresponding to article 204 of Chapter 2 of the AC.

Chapter 1 - COORDINATION

a. Pre-Bid Conference. A pre-bid conference for the project will be held prior to bid opening. The conference will be attended by the Owner, Engineer, Architect, and the construction community.

b. Pre-Construction Conference. A pre-construction conference will be held following contract award and prior to Notice-to-Proceed. Invitees will include representatives of the Owner, Engineer, Architect, contractor, key sub-contractors and suppliers, airport tenants, TSA, airlines, and other interested parties.

c. Construction Progress Meetings. Progress meetings with representatives of the Owner, Architect, and Engineer will be held throughout the project. Local TSA personnel, tenants and airlines will be invited. These meetings will generally be held weekly, but may be more frequent during critical phases of the work. The purpose of these meetings will be scheduling and coordination of the work activities and discussion of operational, safety and security matters. The contractor will be required to have a qualified representative at each of these meetings. Safety, security, schedule and local coordination (TSA/Airlines/Airport Management, etc.) will be standing agenda items.

d. Scope or Schedule Changes. Any work scope changes contemplated will be discussed and coordinated at progress meetings and/or via written correspondence as appropriate prior to implementation. The contractor is required to prepare, submit and regularly update a detailed construction progress schedule for the project. The schedule, and any contemplated changes, will be discussed at the pre-construction conference and all progress meetings.

e. FAA ATO/SSC Coordination. N/A. Construction of this project will not affect any aircraft movement areas.

Chapter 2 - PHASING

Phase Elements. This project involves airline gate concourse expansion; the new connector structure; the bag claim wing expansion; passenger screening checkpoint improvements, two new bag claim carousels; three new passenger boarding bridges; new mechanical and electrical rooms; replacement of aging electrical and mechanical equipment; expanded apron level office spaces; a secure side SARA; and secure side restaurant and retail concession spaces.

The project will be phased into two schedules to keep the terminal and operations continuous during construction. Schedule I will generally consist of work to the south of the existing terminal concourse connector. Schedule II will generally consist of demolition of the existing terminal concourse connector and work to the north of the existing connector. The inbound baggage expansion is a bid alternate and will be awarded if funding allows. If awarded it will be constructed along with Schedule II.

Portions of the existing Air Carrier apron will be closed; however, the closures will not affect any aircraft movement areas.

a. Construction Safety Drawings. The project Safety Plan and Notes are on Plan Sheets C-100 through C-108.

Chapter 3 - AREAS AND OPERATIONS AFFECTED BY THE CONSTRUCTION ACTIVITY

a. Identification of Affected Areas. The project will not close any runways or taxiways. The Contractor's work area is on the Air Carrier Apron. Existing Gate parking by Aircraft will be modified as shown to remove conflicting Aircraft parking spaces. The access route along Taxiway F to the apron will be utilized by the Contractor prior to the installation of the barriers and when moving barriers and also for any access outside of the non-SIDA work area.

b. Mitigation of Effects. The work will not affect aircraft movement areas. Existing Gate parking by Aircraft will be modified as shown to remove conflicting Aircraft parking spaces. While the Contractor is utilizing Taxiway F, the Contractor is to wait out of the way while any aircraft are using the Taxiway or Apron. Aircraft have the right of way at all times.

The Contractor will be required to communicate, coordinate and cooperate with the Engineer, Architect, airport management, airport Public Safety Office, TSA, and Airlines regarding the work schedule.

Chapter 4 - PROTECTION OF NAVIGATION AIDS (NAVAIDs)

The work areas of this project do not impact ILS critical areas or existing NAVAIDS.

Chapter 5 - CONTRACTOR ACCESS

a. Location of Stockpiled Construction Materials. All materials and equipment shall be located in the contractor staging area as shown on the Plans or as coordinated with the airport. All loose items within the staging areas shall be secured at all times. Prior to leaving work each day, the Contractor shall return all construction materials and equipment to the staging areas.

b. Vehicle and Pedestrian Operations

1) Construction site parking. Personal cars shall be parked outside of secured airfield areas as shown on sheet C-100 and C-108.

2) Construction equipment parking. Prior to leaving work each day, Contractor shall return all equipment to the staging areas. For locations of staging areas, see Sheet C-100 of the Plans.

3) Access roads. Access roads to be used under this Contract shall be those shown on Sheet C-100 of the Plans. The Contractor shall confine his equipment where practical to existing roads on the Airport. If existing pavement or road surface is damage by the Contractor's operations, it shall be repaired to its original condition. Metal track vehicles will not be permitted to operate on or across existing pavement without protective matting to prevent marring of the pavement surface.

The Contractor shall conduct his operations in such a manner as to assure that such operations do not impede access to any area of the airfield at any time for the airport's aircraft rescue and firefighting (ARFF) vehicles and other emergency vehicles. ARFF vehicle access shall be a standing agenda item for all progress meetings. The Contractor shall cooperate fully and immediately with any directives issued by airport department of public safety personnel relative to emergency access.

4) Marking and lighting of vehicles. All vehicles operating in the AOA shall be lighted or flagged in accordance with FAA Advisory Circular 150/5370-2G. Copies of the Advisory Circular will be made available upon request.

5) Description of proper vehicle operations. All construction vehicles must be cleared for access by the Airport Public Safety Office.

6) Required escorts. All Contractor personnel, including but not limited to, general laborers, subcontractors, drivers, and journeymen working within active air operations areas must at all times remain within visual and voice range of

contractor supervisory personnel badged by the airport. For the purposes of this project, the air operations areas (AOA) refer to all areas within the airport security fence.

7) **Training requirements for vehicle drivers.** All vehicle drivers within the air operations areas (AOA) must be properly badged and trained by airport safety officers

8) **Situational awareness.** Construction activities and construction-related material are not allowed within the RSA of an open runway or TOFA of an open taxiway at any time.

   Movement of construction vehicles will be restricted to construction areas. Contractor shall provide badged escort drivers as appropriate. See Plans C-101, C-103, and C-105 for barrier locations. Contractor shall ensure that no personnel/equipment enter onto or cross active taxiways or runways at any time.

   During construction, adjacent aprons, taxilanes, taxiways, and runways will be open to aircraft unless otherwise noted. Aircraft will have the right of way at all times. Contractor shall be aware of the aircraft movements and the jetblast and/or prop-wash associated with these aircraft. The Contractor shall secure loose items.

c. Two-Way Radio Communications

1) **General.** Radio communication is not required for this project. All Contractor work areas and access is outside the ATC movement area.

2) **Areas requiring two-way radio communication with the ATCT.** N/A. Contractor is prohibited from entering any area requiring ATCT communication. Crossing or entering active movement areas without prior approval from Air Traffic Control Tower will subject Contractor to being fined a minimum $10,000 per incursion and loss of privilege of moving across active movement areas.

d. Airport Security

1) **Fencing and gates.** The Contractor shall coordinate ingress-egress requirements with the Airport Public Safety Office. All open gates to secured airport areas shall be monitored continuously by Contractor's personnel to control access to secured area or shall be closed and locked. Contractor personnel shall not allow any unauthorized personnel or animals to enter through the construction gate. If unauthorized personnel or animals enter through open gates, Contractor shall immediately notify the PSO. The Contractor shall be responsible for securing and locking all gates when not in use and at the end of

each day's operations. It is recommended that gate monitors log in and out all vehicles entering and leaving the project areas.

Prior to entering the secured AOA of the airport each day, the Contractor shall check in with the PSO. All gate monitors shall be properly badged. Close coordination for access to work areas and schedules between the Contractor, other Contractors working in the project area, and PSO will be required throughout the project. Contractor shall provide a list of all key holders for Contractor's locks seven days prior to construction.

2) Badging requirements. All work on this project is located within or immediately adjacent to the Security Identification Display Area (SIDA). Therefore, all work shall be performed by workers bearing Airport issued SIDA Badges or under the direct control of a worker bearing an airport issues SIDA badge. A SIDA badged individual may escort unbadged individuals in accordance with the escort table on plan sheet C-105.

Badging for each individual requires completion of the application form, payment of a processing fee ($90.00 per individual requesting a badge), presentation of tow acceptable forms of identification, a background check by PSO staff, digital fingerprinting by PSO staff, and federal processing thereof and training. Allow two hours for application submittal and fingerprinting and four hours (on a subsequent date) for training and badge issuance. Allow two weeks for the badging process.

3) Airports subject to 49 CFR Part 1542, Airport Security, must meet standards for access control, movement of ground vehicles, and identification of construction contractor and tenant personnel.

Chapter 6 - WILDLIFE MANAGEMENT

a. Trash. The Contractor shall clean all construction areas of litter, loose papers, debris, etc. on a daily basis, or as directed by the Engineer/Airport. Food scraps must be collected and disposed of off-site. Prior to the close of daily operations, Contractor shall inspect all active Air Operations Areas and construction areas for litter. All debris shall be cleaned up and properly disposed of prior to release of crews from each shift.

b. Standing Water. If wet conditions are encountered during construction, Contractor is responsible for dewatering areas to remove standing water.

c. Poorly Maintained Fencing and Gates. The airport perimeter fencing and gates shall be carefully protected by the Contractor. Any facilities damaged by the Contractor will be repaired immediately and restored to original condition at Contractor's cost.

d. Disruption of Existing Wildlife Habitat. The airport actively manages wildlife. This project is not expected to disrupt any existing wildlife habitat.

Contractor shall notify Airport Management and Engineer immediately of any wildlife encounters and/or sightings.

Chapter 7 - FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

1. Waste and loose materials, commonly referred to as FOD, are capable of causing damage to aircraft landing gears, propellers, and jet engines. During construction operations, Contractor is responsible for monitoring and controlling FOD to the satisfaction of Airport Management and the Engineer. Prior to the close of daily operations, Contractor shall inspect all construction areas with the Airport PSO to ensure that they are clear of FOD.

2. Prior to reopening any construction work area, Contractor must perform a walk through with Airport PSO to confirm that the areas are free of FOD or other hazards.

Chapter 8 - HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT

1. Contractor shall be responsible for oil management and for expeditious containment and clean-up of spills on the airport property resulting from fuel, lubricant or hydraulic fluid leaks from construction vehicles and/or equipment.

2. The Contractor shall furnish to the Engineer and airport maintenance and safety staff, MSDS sheets for all chemicals used during construction.

3. Transport and handling of other hazardous materials on an airport also requires special procedures. See AC 150/5320-15A, Management of Airport Industrial Waste.

Chapter 9 - NOTIFICATION OF CONSTRUCTION ACTIVITIES

a. Maintenance of List of Responsible Representatives/Points of Contact

1) The Contractor and all subcontractors shall designate a representative and alternate to contact on a 24-hour basis should problems arise. The point of contact provided must be able to coordinate an immediate response to correct any construction-related activity that may adversely affect the operational safety of the airport. The Contractor shall provide a listing of all contact persons of all supervisory personnel and all subcontractors.

2) The Contractor must also provide a safety/construction inspector familiar with airport safety to monitor construction activities.

b. Notices to Airmen (NOTAM). The Owner will issue any necessary NOTAMS to reflect hazardous and operational conditions. The Contractor shall work with the Engineer and Owner to schedule NOTAM issuance and Airport Operations Area (AOA) closures and shall provide the Owner and Engineer with advance notice of the need to issue or close a NOTAM. It is important that NOTAMS be kept current and reflects the actual conditions with respect to construction situations. Active NOTAMS shall be reviewed periodically and revised to reflect the current conditions.

The Contractor shall not begin work unless and until 7 days prior notice has been given to the Airport Management. Crossing Runways or Taxiways is not allowed for this project.

c. Emergency Notification Procedures. In an emergency situation the Contractor is to notify the Public Safety Office (PSO) immediately. The Public Safety Office can be reached by phone at (910) 341-4336.

d. Coordination with ARFF Personnel. The ARFF building is located off Taxiway F. See Sheet C-100 for construction work areas. The Airport PSO will be invited to all project meetings for coordination of safety and security matters. Contractor will be required to maintain ARFF/PSO access at all times.

e. Notification to the FAA

1) Part 77. If Contractor utilizes equipment exceeding 75’ in height, Contractor is responsible for filing a “Notice of Proposed Construction or Alteration” (FAA Form 7460) with FAA prior to erecting equipment. Contractor should allow at least 45 days for FAA review. Detailed instructions can be found on the FAA website: https://oeaaa.faa.gov/oeaaa/external/portal.jsp.

2) NAVAIDs.

a) Airport owned/FAA maintained. *Not applicable to this project*

b) FAA owned. *Not applicable to this project*

Chapter 10 - INSPECTION REQUIREMENTS

a. Daily Inspections

1. A daily start-up and shut-down checklist will be jointly prepared by the Contractor and Airport Management and included in the Safety Plan Compliance Document (SPCD). The checklist will be followed throughout the project. This checklist shall include, but not be limited to, barricades, haul routes, securing of access gates, clean up, etc. The Contractor's site supervisor and labor crew shall not leave the work site until such time as the Public Safety Office has inspected the area and signed off on the daily checklist.

2. Frequent inspections will be made by the Public Safety Office during critical phases of the work to ensure that the Contractor is following the recommended airfield safety procedures.

b. Final Inspections

1. Prior to opening the work area, Contractor must perform a walkthrough of the construction area with airport personnel and the Engineer to confirm that the areas are free of FOD or other hazards.

2. Contractor shall be required to remedy any deficiencies immediately, whether caused by negligence, oversight, or project scope change to the satisfaction of Airport Management and the Engineer.

Chapter 11 - UNDERGROUND UTILITIES

1. Underground utilities are known to be located in the project areas. Existing underground utilities including but not limited to power and communications cables, waterline, sewer lines, telephone, and other utilities may be in the path of construction. Locations of utilities if shown on the Plans are approximate only. All utilities and facilities are not necessarily indicated on Plans. It shall be the Contractor's responsibility to locate and protect existing utilities and facilities from damage.

2. All existing facilities will be carefully protected by the Contractor. Any facilities damaged by the Contractor will be repaired immediately and restored to original condition at the Contractor's expense. All utilities and surfaces to remain shall be protected by suitable means. If damaged by the Contractor, these and any other above or below ground facilities shall be repaired at the Contractor's expense, to the satisfaction of the Engineer and the Owner.

3. Special attention is directed to the presence of power and communication cables within the project area. Other facilities in the area include but are not limited to storm drain pipes. The Contractor shall be solely responsible for location and protecting all existing above and underground facilities and shall bear all associated costs. The Contractor shall employ a private utility locator service or shall obtain and utilize cable locating equipment in order to field locate existing cable runs not to be disturbed/replaced by this project.

4. It is understood and agreed that the Owner does not guarantee the accuracy or the completeness of the location information relating to existing utility services, facilities or structures that may be shown on the plans or encountered in the work. Any inaccuracy or omission in such information shall not relieve the Contractor of his/her responsibility to protect such existing features from damage or unscheduled interruption of service.

5. Should the Contractor damage or interrupt the operations of a utility service or facility outside the project limits by accident or otherwise, he shall immediately notify the proper authority and the Engineer and shall take all reasonable measures to prevent further damage or interruption of service. The Contractor, in such events, shall cooperate with the utility service or facility owner and the Engineer continuously until such damage has been repaired and service restored to the satisfaction of the utility or facility owner.

6. The Contractor shall bear all costs of damage and restoration of service to any utility service or facility due to his/her operations whether or not due to negligence or

accident. The Contract Owner reserves the right to deduct such costs from any monies due or which may become due to the Contractor.

Chapter 12 - PENALTIES

1. Crossing or entering active ATC movement areas without prior approval from Air Traffic Control Tower will subject Contractor to being fined a minimum $10,000 per incursion and loss of privilege of moving across active movement areas. If the control tower is not manned, construction activities should be coordinated through the Public Safety Office.

2. For each incident where cables are located within five feet of the position defined on the ground and are cut or damaged and are not able to perform their required function resulting in the diversion of aircraft or the interruption of the normal flow of air traffic and aircraft operations on the Airport, the sum of $10,000.00 per incident shall be deducted from any money due the Contractor. An additional $10,000.00 per day will be deducted from any money due the Contractor until such time as cables are repaired and operational. If no money is due the Contractor, the Owner shall have the right to recover said sum or sums from the Contractor, from the surety, or from both. The amount of these deductions are to cover liquidated damages to the Sponsor incurred by additional work and other expenses and damages arising from the incident or incidents caused by the Contractor, and such deductions are not to be considered as penalties.

3. Security Violations on the airfield may result in an $11,000 fine from the Transportation Security Administration (TSA), which may be passed on to the Contractor.

Chapter 13 - SPECIAL CONDITIONS

1. The Contractor's supervisory personnel are expected to become knowledgeable regarding the airport's operational, safety and security requirements, actively participate in project meetings, establish effective communications with airport management and safety personnel. The Contractor shall cooperate with the airport in operational matters and during emergency response situations.

Chapter 14 - RUNWAY AND TAXIWAY VISUAL AIDS

a. General. Runway and taxiway visual aids include marking, lighting, and signs. The runway and taxiway visual aids ensure that areas where aircraft will be operating are clearly and visibly separated from construction areas, including but not limited to closed runways and taxiways. Throughout the duration of the construction project, no Runways or Taxiways will be closed.

b. Markings. Aircraft gate marking changes will be required over the course of the project.

c. Lighting and Visual Aids – Lights will be mounted to the continuous concrete barriers to delineate the Contractor's staging/work areas.

Chapter 15 - MARKING AND SIGNS FOR ACCESS ROUTES

1. The contractor access routes are shown on Sheet C-100 of the Plans. Access points and on-airport access routes shall be discussed at the pre-construction conference and at progress meetings to address construction needs and airport operational, safety and security considerations. Access route physical conditions shall be regularly reviewed. The Contractor is expected to maintain the access routes in safe, clean, orderly condition at all times. Many of the routes are also used for maintenance access, security checks and emergency response; these routes must be passable at all times and in all weather conditions.

2. The Contractor shall provide signs and markings for access routes on the airport as needed to control and guide the construction traffic. All signs and markings shall be coordinated with the airport staff and reviewed for aircraft safety and security.

Chapter 16 - HAZARD MARKINGS AND LIGHTING

a. Purpose. Hazard marking and lighting prevents pilots from entering areas closed to aircraft and prevents construction personnel from entering areas open to aircraft. Hazard marking and lighting shall also identify open manholes and trenches, small areas under repair, stockpiled material, waste areas, and areas subject to jet blast.

b. Equipment

1) Continuous Concrete Barrier with Chain Link Fence. Contractor shall install Continuous Concrete Barriers to fence out the construction area from the active Apron (SIDA area). See detail on Sheet C-108 of the Plans.

2) Lights must be red. A steady burning red light shall be centered on each barrier and must meet the luminance requirements of the State Highway Department. Lights must be securely mounted on barricades and spaced at no more than 10 feet. Lights must be operated between sunset and sunrise and during periods of low visibility whenever the airport is open for operations.

3) Air Operations Area - General. Continuous Concrete Barriers as noted above, where indicated in the Plans shall be provided.

4) Air Operations Area - Runway/Taxiway Intersections. N/A.

5) Maintenance. The Contractor must have a person on call 24 hours a day for emergency maintenance of barriers. The Contractor must file the contact person's information with Airport operations. Lighting should be checked for proper operation at least once per day, preferably at dusk.

Chapter 17 - PROTECTION

This project will not affect any Runways, Taxiways. Dimensions, location and protection of the RSA, ROFA, OFZ, TSA and TOFA areas of open facilities will be discussed at the pre-construction conference and progress meetings.

a. **Runway Safety Area (RSA).** No work is proposed in any Runway Safety Area for this project. A runway safety area is the defined surface surrounding the runway prepared or suitable for reducing the risk of damage to airplanes in the event of an undershoot, overshoot, or excursion from the runway (see AC 150/5300-13A). At ILM, the RSA is 500 feet wide, centered on the runway, and extending 1,000 feet beyond each runway end.

b. Runway Object Free Area (ROFA). No work is proposed in any Runway Object Free Area for this project. At ILM, the ROFA is 800 feet wide, centered on the runway, and extends beyond each runway end.

c. **Taxiway Safety Area (TSA).** No work is proposed in any Taxiway Safety Area for this project, except access through the non-movement portion of Taxiway F. A taxiway safety area is a defined surface alongside the taxiway prepared or suitable for reducing the risk of damage to an airplane unintentionally departing the taxiway (See AC 150/5300-13A). The taxiway safety area width for ILM is Group III – 118' wide.

d. Taxiway & Taxilane Object Free Area (TOFA) No work is proposed in any Taxiway/Taxilane Object Free Area for this project, except access through the non-movement portion of Taxiway F. The taxiway object free area width for ILM is Group III – 186' wide.

e. Obstacle Free Zone (OFZ). No work is proposed in the OFZ for this project.

f. Runway Approach/Departure Surfaces. No work is proposed in the runway approaches for this project. Therefore, all personnel, materials, and/or equipment shall remain clear of the applicable threshold siting surfaces, as defined in Table 3-2, "Approach/departure standards table," of AC 150/5300-13A.

Chapter 18 - OTHER LIMITATIONS ON CONSTRUCTION

a. Prohibitions

1) **No use of tall equipment.** If Contractor utilizes equipment exceeding 75’ in height, Contractor is responsible for filing a “Notice of proposed Construction” (7460) with FAA prior to erecting equipment. Contractor should allow at least 45 days for FAA review. Detailed instructions can be found on the FAA website: https://oeaaa.faa.gov/oeaaa/external/portal.jsp.

2) **No use of open flame welding or torches.**

3) **No use of electrical blasting caps** on or within 1,000 ft of the airport property.

4) **No use of flare pots** within the AOA.

SECTION 077200 - ROOF ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Roof hatches.

B. Related Sections:

1. Section 055000 "Metal Fabrications" for ladder to access roof hatches.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of roof accessory indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: For roof accessories. Include plans, elevations, keyed details, and attachments to other work. Indicate dimensions, loadings, and special conditions.

C. Delegated-Design Submittal: For roof hatches indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1. Detail mounting, securing, and flashing of roof-mounted items to roof structure. Indicate coordinating requirements with roof membrane system.
2. Wind-Restraint Details: Detail fabrication and attachment of wind restraints. Show anchorage details and indicate quantity, diameter, and depth of penetration of anchors.

1.3 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Roof plans, drawn to scale, and coordinating penetrations and roof-mounted items. Show the following:

1. Size and location of roof accessories specified in this Section.
2. Method of attaching roof accessories to roof or building structure.
3. Other roof-mounted items including mechanical and electrical equipment, ductwork, piping, and conduit.
4. Required clearances.

B. Warranty: Sample of special warranty.

1.4 COORDINATION

A. Coordinate layout and installation of roof accessories with roofing membrane and base flashing and interfacing and adjoining construction to provide a leakproof, weathertight, secure, and noncorrosive installation.

B. Coordinate dimensions with rough-in information or Shop Drawings of piping to be supported.

1.5 WARRANTY

A. Special Warranty on Painted Finishes: Manufacturer's standard form in which manufacturer agrees to repair finishes or replace roof accessories that show evidence of deterioration of factory-applied finishes within specified warranty period.

1. Finish: Deterioration includes, but is not limited to, the following:

a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Finish Warranty Period: 5 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Roof accessories shall withstand exposure to weather and resist thermally induced movement without failure, rattling, leaking, or fastener disengagement due to defective manufacture, fabrication, installation, or other defects in construction.

B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design roof hatches to comply with wind performance requirements, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

C. Wind-Restraint Performance: As indicated on Drawings.

2.2 ROOF HATCH

A. Roof Hatches: Metal roof-hatch units with lid and insulated double-walled curb, welded or mechanically fastened and sealed corner joints, continuous lid-to-curb counterflashing and weathertight perimeter gasketing, integral metal cant, and integrally formed deck-mounting flange at perimeter bottom.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Babcock-Davis
b. Bilco Company
c. J. L. Industries, Inc.
d. Milcor Inc.; Commercial Products Group of Hart & Cooley, Inc.
e. Nystrom
f. O'Keefes Inc.
g. Pate Company
h. SafePro

B. Type and Size: Single-leaf lid, 48 by 48 inches.

C. Loads: Minimum 40-lbf/sq. ft. external live load and 20-lbf/sq. ft. internal uplift load.

D. Hatch Material: Aluminum sheet, 0.090 inch thick.

1. Finish: Powder coat.
2. Color: As selected by Architect from manufacturer's full range.

E. Construction:

1. Insulation: Glass-fiber board.
2. Hatch Lid: Opaque, insulated, and double walled, with manufacturer's standard metal liner of same material and finish as outer metal lid.
3. Curb Liner: Manufacturer's standard, of same material and finish as metal curb.
4. Fabricate curbs to minimum height of 12 inches unless otherwise indicated.
5. Sloping Roofs: Where slope or roof deck exceeds 1:48, fabricate curb with perimeter curb height that is tapered to accommodate roof slope so that top surfaces of perimeter curb are level. Equip hatch with water diverter or cricket on side that obstructs water flow.

F. Hardware: Stainless-steel spring latch with turn handles, pintle-type hinge system, and padlock hasps inside and outside.

G. Safety Railing System: Roof-hatch manufacturer's safety railing system including rails, clamps, fasteners, hinged gate safety barrier at railing opening, and accessories required for a complete installation; attached to roof hatch and complying with 29 CFR 1910.23 requirements and authorities having jurisdiction.

1. Height: 42 inches above finished roof deck.
2. Posts and Rails: Galvanized-steel pipe, 1-1/4 inches in diameter or galvanized-steel tube, 1-5/8 inches in diameter. Fiberglass railings are not acceptable.
3. Flat Bar: Galvanized steel, 2 inches high by 3/8 inch thick.
4. Maximum Opening Size: System constructed to prevent passage of a sphere 21 inches in diameter.
5. Post and Rail Tops and Ends: Weather resistant, closed or plugged with prefabricated end fittings.
6. Provide weep holes or another means to drain entrapped water in hollow sections of handrail and railing members.
7. Fabricate joints exposed to weather to be watertight.
8. Fasteners: Manufacturer's standard, finished to match railing system.
9. Finish: Manufacturer's standard.
    a. Color: As selected by Architect from manufacturer's full range.

H. Ladder-Assist Post: Roof-hatch manufacturer's standard device for attachment to roof-access ladder.

1. Operation: Post locks in place on full extension; release mechanism returns post to closed position.
2. Height: 42 inches above finished roof deck.
3. Material: Steel tube.
4. Post: 1-5/8-inch diameter pipe.
5. Finish: Manufacturer's standard baked enamel or powder coat.
    a. Color: As selected by Architect from manufacturer's full range.

2.3 METAL MATERIALS

A. Aluminum Sheet: ASTM B 209, manufacturer's standard alloy for finish required, with temper to suit forming operations and performance required.

1. Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.
2. Concealed Finish: Pretreat with manufacturer's standard white or light-colored acrylic or polyester-backer finish consisting of prime coat and wash coat, with a minimum total dry film thickness of 0.5 mil.

B. Aluminum Extrusions and Tubes: ASTM B 221, manufacturer's standard alloy and temper for type of use, finished to match assembly where used, otherwise mill finished.

C. Steel Shapes: ASTM A 36/A 36M, hot-dip galvanized according to ASTM A 123/A 123M unless otherwise indicated.

D. Galvanized-Steel Tube: ASTM A 500, round tube, hot-dip galvanized according to ASTM A 123/A 123M.

E. Steel Pipe: ASTM A 53/A 53M, galvanized.

2.4 MISCELLANEOUS MATERIALS

A. General: Provide materials and types of fasteners, protective coatings, sealants, and other miscellaneous items required by manufacturer for a complete installation.

B. Glass-Fiber Board Insulation: ASTM C 726, nominal density of 3 lb/cu. ft., thermal resistivity of 4.3 deg F x h x sq. ft./Btu x in. at 75 deg F, thickness as indicated.

C. Wood Nailers: Softwood lumber, pressure treated with waterborne preservatives for aboveground use, acceptable to authorities having jurisdiction, containing no arsenic or chromium, and complying with AWPA C2; not less than 1-1/2 inches thick.

D. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D 1187.

E. Underlayment:

1. Self-Adhering, High Temperature Sheet: Refer to Section 076200 "Sheet Metal Flashing and Trim."
2. Slip Sheet: Building paper, 3-lb/100 sq. ft. minimum, rosin sized.

F. Fasteners: Roof accessory manufacturer's recommended fasteners suitable for application and metals being fastened. Match finish of exposed fasteners with finish of material being fastened. Provide nonremovable fastener heads to exterior exposed fasteners. Furnish the following unless otherwise indicated:

1. Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.

G. Gaskets: Manufacturer's standard tubular or fingered design of neoprene, EPDM, PVC, or silicone or a flat design of foam rubber, sponge neoprene, or cork.

H. Elastomeric Sealant: ASTM C 920, elastomeric polymer sealant as recommended by roof accessory manufacturer for installation indicated; low modulus; of type, grade, class, and use classifications required to seal joints and remain watertight.

I. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required for application.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions, and other conditions affecting performance of the Work.

B. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.

C. Verify dimensions of roof openings for roof accessories.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Install roof accessories according to manufacturer's written instructions.

1. Install roof accessories level, plumb, true to line and elevation, and without warping, jogs in alignment, excessive oil canning, buckling, or tool marks.
2. Anchor roof accessories securely in place so they are capable of resisting indicated loads.
3. Use fasteners, separators, sealants, and other miscellaneous items as required to complete installation of roof accessories and fit them to substrates.
4. Install roof accessories to resist exposure to weather without failing, rattling, leaking, or loosening of fasteners and seals.

B. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.

1. Coat concealed side of uncoated aluminum roof accessories with bituminous coating where in contact with wood, ferrous metal, or cementitious construction.
2. Underlayment: Where installing roof accessories directly on cementitious or wood substrates, install a course of underlayment and cover with a slip sheet.
3. Bed flanges in thick coat of asphalt roofing cement where required by manufacturers of roof accessories for waterproof performance.

C. Roof-Hatch Installation:

1. Install roof hatch so top surface of hatch curb is level.
2. Verify that roof hatch operates properly. Clean, lubricate, and adjust operating mechanism and hardware.

D. Seal joints with elastomeric sealant as required by roof accessory manufacturer.

3.3 REPAIR AND CLEANING

A. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing according to ASTM A 780.

B. Touch up factory-primed surfaces with compatible primer ready for field painting according to Division 09 painting Sections.

C. Clean exposed surfaces according to manufacturer's written instructions.

D. Replace roof accessories that have been damaged or that cannot be successfully repaired by finish touchup or similar minor repair procedures.

END OF SECTION 077200

SECTION 102600 - WALL PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Abuse-resistant wall coverings.

1.3 ACTION SUBMITTALS

A. Product Data: Include construction details, material descriptions, impact strength, dimensions of individual components and profiles, and finishes for each wall protection unit.

B. Shop Drawings: For each wall protection unit showing locations and extent. Include sections, details, and attachments to other work.

C. Samples: For each type of wall protection unit indicated.

1.4 INFORMATIONAL SUBMITTALS

A. Warranty: Sample of special warranty.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store wall protection units in original undamaged packages and containers inside well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

1. Store in compliance with manufacturer's written recommendations.

1.6 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install wall protection units until building is enclosed and weatherproof, wet work is complete and dry, and HVAC system is operating and maintaining temperature at 70 deg F for not less than 72 hours before beginning installation and for the remainder of the construction period.

B. Field Measurements: Verify actual locations of walls, columns, and other construction contiguous with wall protection units by field measurements before fabrication and indicate measurements on shop drawings.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of impact-resistant wall protection units that fail in materials or workmanship within

specified warranty period.

1. Failures include, but are not limited to, the following:

   a. Structural failures.
   b. Deterioration of plastic and other materials beyond normal use.

2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design: Subject to compliance with requirements, provide basis of design or one of the following comparable products:

1. Panolam Industries International, Inc.; FRL (Fiber Reinforced Laminate) Wall Protection Panels (Basis of Design).
2. Wilsonart; High Pressure Laminate Panels.
3. Formica; High Pressure Laminate Panels.

2.2 ABUSE-RESISTANT WALL COVERINGS **(WPS-1)**

A. Laminated, Impact-Resistant Wall Panels: Rigid wall panels consisting of semirigid, plastic sheet wall covering material factory laminated to high-impact-resistant core, with moisture-resistant vapor barrier factory laminated to reverse side of panel for stability.

1. Composition: 0.075-inch thick sheet laminated to 3/4-inch thick medium-density fiberboard core.
2. Sheet Size: As indicated on Drawings.
3. Height: As indicated on Drawings.
4. Sheet Edge: Square, with rubber “T” molding insert by manufacturer at all exposed edges typ.
5. Trim and Joint Moldings: Extruded rigid plastic that matches wall-covering color.
6. Color and Texture: As selected by Architect from manufacturer's full range of Nevamar colors and patterns (Basis of Design).
7. Mounting: Demountable, on aluminum “Z” clips. Monarch MF 250 Z-clips with ¼-inch lift off (Basis of Design) or approved equal. Provide mounting hardware in locations, quantities, and spacing as required by panel manufacturer’s instructions.
8. Surface Burning Characteristics: US Standard UL-723/ASTM E 84 Class A.
9. Chemical resistant compliant with SEFA 8 requirements.
10. Wear Resistance (Cycles): NEMA 3.13: 3500 typical.
11. Flexural Strength: ASTM 0790: 20,148 psi typical.
12. Molding Profiles: Outside corners flat, outside corners round, division bars, inside corners, standard end caps. See Drawings for trim profiles.
13. Adhesive: Construction adhesive #4319 by Franklin Adhesives and Polymers or equal approved by panel manufacturer.
14. Joint Caulking: Color Sil by Color Rite or equal approved by panel manufacturer. 100 percent silicone-based color caulking.

2.3 FABRICATION

A. Fabricate wall protection units to comply with requirements indicated for design, dimensions, and member sizes, including thicknesses of components.

B. Assemble components in factory to greatest extent possible to minimize field assembly. Disassemble only as necessary for shipping and handling.

C. Fabricate components with tight seams and joints with exposed edges rolled. Provide surfaces free of wrinkles, chips, dents, uneven coloration, and other imperfections. Fabricate members and fittings to produce flush, smooth, and rigid hairline joints.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and wall areas, with Installer present, for compliance with requirements for installation tolerances, fire rating, and other conditions affecting performance of work.

B. Examine walls to which wall protection will be attached for blocking, grounds, and other solid backing that have been installed in the locations required for secure attachment.

1. For wall protection units attached with adhesive, verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Complete finishing operations, including painting, before installing wall protection system components.

B. Before installation, clean substrate to remove dust, debris, and loose particles.

3.3 INSTALLATION

A. General: Install wall protection units level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.

1. Install wall protection units in locations and at mounting heights indicated on Drawings.

3.4 CLEANING

A. Immediately after completion of installation, clean wall protection units using manufacturer's recommended cleaning agent.

B. Remove excess adhesive using methods and materials recommended in writing by manufacturer.

END OF SECTION 102600

SHEET INDEX - VOLUME 1

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1	7/30/2019	6/28/2019	S-322	ELEVATED CONCRETE DETAILS	AD-03
		6/28/2019	S-323	CONCRETE COLUMN SCHEDULES & DETAILS	
2	7/30/2019	6/28/2019	S-341	CONCRETE FLOOR SECTIONS	AD-03
		6/28/2019	S-401	MASONRY DETAILS	
1	7/30/2019	6/28/2019	S-501	STEEL COLUMN SCHEDULES & DETAILS	AD-03
2	7/30/2019	6/28/2019	S-511	STEEL FLOOR SECTIONS	AD-03
2	7/30/2019	6/28/2019	S-512	STRUCTURAL FLOOR SECTIONS	AD-03
2	7/30/2019	6/28/2019	S-521	STRUCTURAL ROOF SECTIONS	AD-03
2	7/30/2019	6/28/2019	S-522	STRUCTURAL ROOF SECTIONS	AD-03
2	7/30/2019	6/28/2019	S-523	STRUCTURAL ROOF SECTIONS	AD-03
2	7/30/2019	6/28/2019	S-524	STRUCTURAL ROOF SECTIONS	AD-03

ARCHITECTURAL

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME	CURRENT REVISION DESCRIPTION
		6/28/2019	A-001	OVERALL SITE PLAN	
		6/28/2019	A-010	RAMP LEVEL SCHEDULE DIAGRAM	
		6/28/2019	A-011	BOARDING/TICKET LEVEL SCHEDULE DIAGRAM	
		6/28/2019	A-012	ADMIN LEVEL SCHEDULE DIAGRAM	
		6/28/2019	A-013	ROOF PLAN SCHEDULE DIAGRAM	
		6/28/2019	A-021	SCHEDULE 1 PHASING PLAN	
		6/28/2019	A-022	SCHEDULE 1 PHASING PLAN	
		6/28/2019	A-023	SCHEDULE 1 PHASING PLAN	
		6/28/2019	A-024	SCHEDULE 1 PHASING PLAN	
		6/28/2019	A-025	SCHEDULE 2 PHASING PLAN	
		6/28/2019	A-025-AA	SCHEDULE 2 PHASING PLAN-ALT	
		6/28/2019	A-025-AB	SCHEDULE 2 PHASING PLAN-ALT	
		6/28/2019	A-025-AC	SCHEDULE 2 PHASING PLAN-ALT	
		6/28/2019	A-026	SCHEDULE 2 PHASING PLAN	
		6/28/2019	A-026-A	SCHEDULE 2 PHASING PLAN-ALT	
		6/28/2019	A-027	SCHEDULE 2 PHASING PLAN	
		6/28/2019	A-027-A	SCHEDULE 2 PHASING PLAN-ALT	
		6/28/2019	A-028	SCHEDULE 2 PHASING PLAN	
		6/28/2019	A-028-A	SCHEDULE 2 PHASING PLAN-ALT	
		6/28/2019	A-029	SCHEDULE 2 PHASING PLAN	
		6/28/2019	A-29-A	SCHEDULE 2 PHASING PLAN-ALT	
		6/28/2019	A-030	SCHEDULE 2 PHASING PLAN	
		6/28/2019	A-030-A	SCHEDULE 2 PHASING PLAN-ALT	
		6/28/2019	A1-110	SCHEDULE 1 - RAMP LEVEL OVERALL PLAN	
1	7/12/2019	6/28/2019	A1-111	SCHEDULE 1 - RAMP LEVEL FLOOR PLAN ZONE 1	AD-01
1	7/12/2019	6/28/2019	A1-112	SCHEDULE 1 - RAMP LEVEL FLOOR PLAN ZONE 2	AD-01
1	7/12/2019	6/28/2019	A1-113	SCHEDULE 1 - RAMP LEVEL FLOOR PLAN ZONE 3	AD-01
1	7/12/2019	6/28/2019	A1-116	SCHEDULE 1 - RAMP LEVEL FLOOR PLAN ZONE 6	AD-01
		6/28/2019	A1-120	SCHEDULE 1 - BOARDING / TICKET LEVEL OVERALL PLAN	
		6/28/2019	A1-121	SCHEDULE 1 - BOARDING LEVEL FLOOR PLAN ZONE 1	
1	7/12/2019	6/28/2019	A1-122	SCHEDULE 1 - BOARDING LEVEL FLOOR PLAN ZONE 2	AD-01
		6/28/2019	A1-123	SCHEDULE 1 - TICKET LEVEL FLOOR PLAN ZONE 3	
		6/28/2019	A1-130	SCHEDULE 1 - ADMIN LEVEL OVERALL FLOOR PLAN	
		6/28/2019	A1-131	SCHEDULE 1 - CLERESTORY FLOOR PLAN	
		6/28/2019	A1-135	SCHEDULE 1 - CUPOLA LEVEL FLOOR PLAN	
		6/28/2019	A1-140	SCHEDULE 1 - ROOF LEVEL OVERALL FLOOR PLAN	
		6/28/2019	A1-141	SCHEDULE 1 - ROOF LEVEL FLOOR PLAN ZONE 1	
		6/28/2019	A1-142	SCHEDULE 1 - ROOF LEVEL FLOOR PLAN ZONE 2	
1	7/12/2019	6/28/2019	A1-143	SCHEDULE 1 - ROOF LEVEL FLOOR PLAN ZONE 3	AD-01
		6/28/2019	A1-150	SCHEDULE 1 - RAMP LEVEL OVERALL RCP	
		6/28/2019	A1-151	SCHEDULE 1 - RAMP LEVEL RCP ZONE 1	
		6/28/2019	A1-152	SCHEDULE 1 - RAMP LEVEL RCP ZONE 2	
		6/28/2019	A1-153	SCHEDULE 1 - RAMP LEVEL RCP ZONE 3	
		6/28/2019	A1-156	SCHEDULE 1 - RAMP LEVEL RCP ZONE 6	
		6/28/2019	A1-160	SCHEDULE 1 - BOARDING / TICKET LEVEL OVERALL RCP	
1	7/30/2019	6/28/2019	A1-161	SCHEDULE 1 - BOARDING LEVEL RCP ZONE 1	AD-03
		6/28/2019	A1-162	SCHEDULE 1 - BOARDING LEVEL RCP ZONE 2	
1	7/30/2019	6/28/2019	A1-163	SCHEDULE 1 - TICKET LEVEL RCP ZONE 3	AD-03
		6/28/2019	A1-170	SCHEDULE 1 - ADMIN LEVEL OVERALL RCP	
1	7/30/2019	6/28/2019	A1-171	SCHEDULE 1 - CLERESTORY RCP	AD-03
		6/28/2019	A1-175	SCHEDULE 1 - CUPOLA RCP	
1	7/12/2019	6/28/2019	A1-201	SCHEDULE 1 - EXTERIOR ELEVATIONS	AD-01
1	7/12/2019	6/28/2019	A1-221	SCHEDULE 1 - ENLARGED ELEVATIONS	AD-01
1	7/12/2019	6/28/2019	A1-222	SCHEDULE 1 - ENLARGED ELEVATIONS	AD-01
1	7/12/2019	6/28/2019	A1-223	SCHEDULE 1 - ENLARGED ELEVATIONS	AD-01
1	7/12/2019	6/28/2019	A1-225	SCHEDULE 1 - ENLARGED ELEVATIONS	AD-01
2	7/30/2019	6/28/2019	A1-251	SCHEDULE 1 - INTERIOR ELEVATIONS	AD-03
2	7/30/2019	6/28/2019	A1-252	SCHEDULE 1 - INTERIOR ELEVATIONS	AD-03
1	7/30/2019	6/28/2019	A1-253	SCHEDULE 1 - INTERIOR ELEVATIONS	AD-03
		6/28/2019	A1-254	SCHEDULE 1 - INTERIOR ELEVATIONS	
1	7/12/2019	6/28/2019	A1-271	SCHEDULE 1 - ENLARGED INTERIOR ELEVATIONS	AD-01
1	7/30/2019	6/28/2019	A1-272	SCHEDULE 1 - ENLARGED INTERIOR ELEVATIONS	AD-03
		6/28/2019	A1-273	SCHEDULE 1 - ENLARGED INTERIOR ELEVATIONS	
		6/28/2019	A1-274	SCHEDULE 1 - ENLARGED INTERIOR ELEVATIONS	
		6/28/2019	A1-301	SCHEDULE 1 - BUILDING SECTIONS	
		6/28/2019	A1-302	SCHEDULE 1 - BUILDING SECTIONS	
		6/28/2019	A1-303	SCHEDULE 1 - BUILDING SECTIONS	
		6/28/2019	A1-351	SCHEDULE 1 - WALL SECTIONS	
		6/28/2019	A1-352	SCHEDULE 1 - WALL SECTIONS	
		6/28/2019	A1-353	SCHEDULE 1 - WALL SECTIONS	
		6/28/2019	A1-354	SCHEDULE 1 - WALL SECTIONS	
		6/28/2019	A1-355	SCHEDULE 1 - WALL SECTIONS	
		6/28/2019	A1-356	SCHEDULE 1 - WALL SECTIONS	
		6/28/2019	A1-357	SCHEDULE 1 - WALL SECTIONS	
2	7/30/2019	7/12/2019	A1-401	SCHEDULE 1 - ENLARGED FLOOR PLANS	AD-03
2	7/30/2019	6/28/2019	A1-402	SCHEDULE 1 - ENLARGED FLOOR PLANS	AD-03
1	7/12/2019	6/28/2019	A1-404	SCHEDULE 1 - ENLARGED SARA PLAN	AD-01
1	7/30/2019	6/28/2019	A1-405	SCHEDULE 1 - ENLARGED TYP HOLDROOM RCP	AD-03
1	7/30/2019	6/28/2019	A1-406	SCHEDULE 1 - ENLARGED BATHROOM RCP	AD-03
1	7/30/2019	6/28/2019	A1-411	SCHEDULE 1 - RESTROOM ELEVATIONS	AD-03
		6/28/2019	A1-412	SCHEDULE 1 - RESTROOM ELEVATIONS	
		6/28/2019	A1-413	SCHEDULE 1 - RESTROOM ELEVATIONS	
		6/28/2019	A1-414	SCHEDULE 1 - RESTROOM ELEVATIONS	
1	7/12/2019	6/28/2019	A1-421	SCHEDULE 1 - ENLARGED STAIR PLANS	AD-01
		6/28/2019	A1-431	SCHEDULE 1 - STAIR SECTIONS	
		6/28/2019	A1-432	SCHEDULE 1 - STAIR AND RAILING DETAILS	
		6/28/2019	A1-509	SCHEDULE 1 - TEMPORARY WALL INTERIOR ELEVATIONS	
		6/28/2019	A1-510	SCHEDULE 1 - TEMPORARY WALL INTERIOR ELEVATIONS	
		6/28/2019	A1-710	SCHEDULE 1 - RAMP LEVEL OVERALL FINISH FLOOR PLAN	
		6/28/2019	A1-711	SCHEDULE 1 - RAMP LEVEL FINISH FLOOR PLAN ZONE 1	
		6/28/2019	A1-712	SCHEDULE 1 - RAMP LEVEL FINISH FLOOR PLAN ZONE 2	
		6/28/2019	A1-713	SCHEDULE 1 - RAMP LEVEL FINISH FLOOR PLAN ZONE 3	
		6/28/2019	A1-720	SCHEDULE 1 - BOARDING / TICKET LEVEL OVERALL FINISH FLOOR PLAN	
		6/28/2019	A1-721	SCHEDULE 1 - BOARDING LEVEL FINISH FLOOR PLAN ZONE 1	
		6/28/2019	A1-722	SCHEDULE 1 - BOARDING LEVEL FINISH FLOOR PLAN ZONE 2	
		6/28/2019	A1-723	SCHEDULE 1 - TICKET LEVEL FINISH FLOOR PLAN ZONE 3	

ARCHITECTURAL (continued)

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME	CURRENT REVISION DESCRIPTION
1	7/12/2019	7/12/2019	AD1-110	SCHEDULE 1 - RAMP LEVEL OVERALL DEMO PLAN	AD-01
1	7/12/2019	7/12/2019	AD1-120	SCHEDULE 1 - BOARDING / TICKET LEVELS OVERALL DEMO PLAN	AD-01
		6/28/2019	A2-110	SCHEDULE 2 - RAMP LEVEL OVERALL FLOOR PLAN	
1	7/12/2019	6/28/2019	A2-111	SCHEDULE 2 - RAMP LEVEL FLOOR PLAN ZONE 1	AD-01
1	7/12/2019	6/28/2019	A2-113	SCHEDULE 2 - RAMP LEVEL FLOOR PLAN ZONE 3	AD-01
1	7/12/2019	6/28/2019	A2-114	SCHEDULE 2 - RAMP LEVEL FLOOR PLAN ZONE 4	AD-01
1	7/12/2019	6/28/2019	A2-115	SCHEDULE 2 - RAMP LEVEL FLOOR PLAN ZONE 5	AD-01
		6/28/2019	A2-120	SCHEDULE 2 - BOARDING LEVEL / TICKET LEVEL OVERALL FLOOR PLAN	
2	7/30/2019	6/28/2019	A2-121	SCHEDULE 2 - BOARDING LEVEL FLOOR PLAN ZONE 1	AD-03
1	7/12/2019	6/28/2019	A2-123	SCHEDULE 2 -TICKET LEVEL FLOOR PLAN ZONE 3	AD-01
2	7/30/2019	6/28/2019	A2-124	SCHEDULE 2 -TICKET LEVEL FLOOR PLAN ZONE 4	AD-03
2	7/30/2019	6/28/2019	A2-125	SCHEDULE 2 -TICKET LEVEL FLOOR PLAN ZONE 5	AD-03
		6/28/2019	A2-130	SCHEDULE 2 - ADMIN LEVEL FLOOR PLAN	
		6/28/2019	A2-131	SCHEDULE 2 - CLERESTORY FLOOR PLAN	
		6/28/2019	A2-140	SCHEDULE 2 - ROOF LEVEL OVERALL PLAN	
1	7/30/2019	6/28/2019	A2-141	SCHEDULE 2 - ROOF LEVEL PLAN ZONE 1	AD-03
2	7/30/2019	6/28/2019	A2-143	SCHEDULE 2 - ROOF LEVEL PLAN ZONE 3	AD-03
		6/28/2019	A2-144	SCHEDULE 2 - ROOF LEVEL PLAN ZONE 4	
		6/28/2019	A2-150	SCHEDULE 2 - RAMP LEVEL OVERALL RCP	
		6/28/2019	A2-151	SCHEDULE 2 - RAMP LEVEL RCP ZONE 1	
		6/28/2019	A2-152	SCHEDULE 2 - RAMP LEVEL RCP ZONE 2	
		6/28/2019	A2-153	SCHEDULE 2 - RAMP LEVEL RCP ZONE 3	
		6/28/2019	A2-154	SCHEDULE 2 - RAMP LEVEL RCP ZONE 4 ALT#1	
		6/28/2019	A2-155	SCHEDULE 2 - RAMP LEVEL RCP ZONE 5	
		6/28/2019	A2-160	SCHEDULE 2 - BOARDING / TICKET LEVEL OVERALL RCP	
2	7/30/2019	6/28/2019	A2-161	SCHEDULE 2 - BOARDING LEVEL RCP ZONE 1	AD-03
1	7/30/2019	6/28/2019	A2-163	SCHEDULE 2 - TICKET LEVEL RCP ZONE 3	AD-03
		6/28/2019	A2-164	SCHEDULE 2 - TICKET LEVEL RCP ZONE 4	
1	7/30/2019	6/28/2019	A2-165	SCHEDULE 2 - TICKET LEVEL RCP ZONE 5	AD-03
		6/28/2019	A2-171	SCHEDULE 2 - CLERESTORY RCP	
1	7/12/2019	6/28/2019	A2-201	SCHEDULE 2 - BUILDING ELEVATIONS	AD-01
1	7/12/2019	6/28/2019	A2-221	SCHEDULE 2 - BUILDING ELEVATIONS	AD-01
2	7/30/2019	6/28/2019	A2-222	SCHEDULE 2 - BUILDING ELEVATIONS	AD-03
2	7/30/2019	6/28/2019	A2-251	SCHEDULE 2 - INTERIOR ELEVATIONS	AD-03
1	7/12/2019	6/28/2019	A2-252	SCHEDULE 2 - INTERIOR ELEVATIONS	AD-01
		6/28/2019	A2-253	SCHEDULE 2 - INTERIOR ELEVATIONS	
		6/28/2019	A2-254	SCHEDULE 2 - INTERIOR ELEVATIONS	
1	7/12/2019	6/28/2019	A2-255	SCHEDULE 2 - INTERIOR ELEVATIONS	AD-01
		6/28/2019	A2-256	SCHEDULE 2 - INTERIOR ELEVATIONS	
		6/28/2019	A2-301	SCHEDULE 2 - BUILDING SECTIONS	
1	7/12/2019	6/28/2019	A2-302	SCHEDULE 2 - BUILDING SECTIONS	AD-01
		6/28/2019	A2-303	SCHEDULE 2 - BUILDING SECTIONS	
		6/28/2019	A2-351	SCHEDULE 2 - WALL SECTIONS	
		6/28/2019	A2-352	SCHEDULE 2 - WALL SECTIONS	
		6/28/2019	A2-353	SCHEDULE 2 - WALL SECTIONS	
1	7/12/2019	6/28/2019	A2-354	SCHEDULE 2 - WALL SECTIONS	AD-01
		6/28/2019	A2-355	SCHEDULE 2 - WALL SECTIONS	
		6/28/2019	A2-356	SCHEDULE 2 - WALL SECTIONS	
		6/28/2019	A2-357	SCHEDULE 2 - WALL SECTIONS	
		6/28/2019	A2-401	SCHEDULE 2 - ENLARGED FLOOR PLANS	
		6/28/2019	A2-402	SCHEDULE 2 - ENLARGED FLOOR PLANS	
		6/28/2019	A2-403	SCHEDULE 2 - ENLARGED FLOOR PLANS	
1	7/12/2019	6/28/2019	A2-404	SCHEDULE 2 - ENLARGED FLOOR PLANS	AD-01
		6/28/2019	A2-405	SCHEDULE 2 - ENLARGED FINISH FLOOR PLANS	
		6/28/2019	A2-411	SCHEDULE 2 - RESTROOM ELEVATIONS	
		6/28/2019	A2-412	SCHEDULE 2 - RESTROOM ELEVATIONS	
		6/28/2019	A2-413	SCHEDULE 2 - RESTROOM ELEVATIONS	
		6/28/2019	A2-414	SCHEDULE 2 - RESTROOM ELEVATIONS	
		6/28/2019	A2-415	SCHEDULE 2 - RESTROOM ELEVATIONS	
		6/28/2019	A2-416	SCHEDULE 2 - RESTROOM ELEVATIONS	
		6/28/2019	A2-417	SCHEDULE 2 - RESTROOM ELEVATIONS	
		6/28/2019	A2-418	SCHEDULE 2 - BAGGAGE CLAIM DOGHOUSE	
		6/28/2019	A2-419	SCHEDULE 2 - ENLARGED BATHROOM RCP	
		6/28/2019	A2-420	SCHEDULE 2 - ENLARGED BATHROOM RCP	
		6/28/2019	A2-421	SCHEDULE 2 - ENLARGED BATHROOM RCP	
1	7/30/2019	6/28/2019	A2-422	SCHEDULE 2 - ENLARGED BAG CLAIM AREA RCP	AD-03
		6/28/2019	A2-710	SCHEDULE 2 - RAMP LEVEL OVERALL FINISH FLOOR PLAN	
		6/28/2019	A2-713	SCHEDULE 2 - RAMP LEVEL FINISH FLOOR PLAN ZONE 3	
		6/28/2019	A2-720	SCHEDULE 2 - BOARDING / TICKET LEVEL OVERALL FINISH FLOOR PLAN	
		6/28/2019	A2-721	SCHEDULE 2 - BOARDING LEVEL FINISH FLOOR PLAN ZONE 1	
		6/28/2019	A2-723	SCHEDULE 2 - TICKET LEVEL FINISH FLOOR PLAN ZONE 3	
		6/28/2019	A2-724	SCHEDULE 2 - TICKET LEVEL FINISH FLOOR PLAN ZONE 4	
		6/28/2019	A2-725	SCHEDULE 2 - TICKET LEVEL FINISH FLOOR PLAN ZONE 5	
2	7/30/2019	6/28/2019	A2-731	SCHEDULE 2 - BOARDING LEVEL FURNITURE PLAN	AD-03
1	7/12/2019	7/12/2019	AD2-110	SCHEDULE 2 - RAMP LEVEL OVERALL DEMO PLAN	AD-01
1	7/12/2019	7/12/2019	AD2-120	SCHEDULE 2 - BOARDING / TICKET LEVELS OVERALL DEMO PLAN	AD-01
		6/28/2019	A-261	MILLWORK ELEVATIONS	
		6/28/2019	A-262	MILLWORK ELEVATIONS	
		6/28/2019	A-263	CASEWORK SECTIONS	
		06/28/19	A-292	CASEWORK	
		6/28/2019	A-501	PLAN DETAILS	
		6/28/2019	A-502	PLAN DETAILS	
2	7/30/2019	6/28/2019	A-503	PLAN DETAILS	AD-03
1	7/30/2019	6/28/2019	A-504	PLAN DETAILS	AD-03
1	7/12/2019	6/28/2019	A-505	PLAN DETAILS	AD-01
		6/28/2019	A-506	PLAN DETAILS	
		6/28/2019	A-507	PLAN DETAILS	
		6/28/2019	A-508	PLAN DETAILS - TEMPORARY WALLS	
		6/28/2019	A-509	PLAN DETAILS	
		6/28/2019	A-510	PLAN DETAILS	
1	7/30/2019	6/28/2019	A-511	SECTION DETAILS	AD-03
1	7/30/2019	6/28/2019	A-512	SECTION DETAILS	AD-03
		6/28/2019	A-513	SECTION DETAILS	
2	7/30/2019	6/28/2019	A-514	SECTION DETAILS	AD-03
		6/28/2019	A-515	EXPANSION JOINT DETAILS	
		6/28/2019	A-516	SECTION DETAILS	
		6/28/2019	A-517	PHASING PLAN SECTIONS	
1	7/30/2019	6/28/2019	A-518	TYPICAL SOFFIT DETAILS	AD-03
1	7/30/2019	6/28/2019	A-521	SPECIALTY WALL PANEL SYSTEM DETAILS	AD-03
		6/28/2019	A-531	TOILET ROOM DETAILS	
		6/28/2019	A-601	DOOR SCHEDULES	
		6/28/2019	A-602	DOOR SCHEDULES	
		6/28/2019	A-603	DOOR DETAILS	
1	7/12/2019	6/28/2019	A-611	WINDOW SCHEDULES	AD-01
		6/28/2019	A-612	WINDOW SCHEDULES AND DETAILS	
1	7/30/2019	6/28/2019	A-651	FINISH SCHEDULES	AD-03
		6/28/2019	A-652	FINISH DETAILS	
1	7/30/2019	6/28/2019	A-653	TYPICAL COLUMN FINISH DETAILS	AD-03
2	7/30/2019	6/28/2019	A-654	WALL BASE, WALL, AND PANEL REVEAL DETAILS	AD-03
1	7/30/2019	6/28/2019	A-661	FINISH LEGEND	AD-03

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

THE WILSON GROUP ARCHITECTS - CERT. NO. 51140 - REGISTERED ARCHITECTURAL CORPORATION - NORTH CAROLINA - CHARLOTTE, N.C.

TRAVIS WALKER PEARCE - REGISTERED ARCHITECT - 9272 - NORTH CAROLINA - CHARLOTTE, N.C.

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STEWART

FP/P/M/E ENGINEER
CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
BNP

AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

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VOLUME 1

SHEET NUMBER
G-001

SHEET INDEX - VOLUME 2

FIRE PROTECTION

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME	Current Revision Description
		6/28/2019	F1-002	FIRE PROTECTION SITE DIAGRAM	
		6/28/2019	F1-801	SCHEDULE 1 SECTIONS FIRE PROTECTION	
		6/28/2019	F1-802	SCHEDULE 1 SECTIONS FIRE PROTECTION	
		6/28/2019	F2-801	SCHEDULE 2 SECTIONS FIRE PROTECTION	
		6/28/2019	F2-802	SCHEDULE 2 SECTIONS FIRE PROTECTION	
		6/28/2019	FD1-110	SCHEDULE 1 RAMP LEVEL OVERALL DEMO PLAN	
		6/28/2019	FD1-111	SCHEDULE 1 RAMP LEVEL DEMO PLAN ZONE 1	
		6/28/2019	FD1-113	SCHEDULE 1 RAMP LEVEL DEMO PLAN ZONE 3	
1	7/12/2019	6/28/2019	FD1-115	SCHEDULE 1 RAMP LEVEL DEMO PLAN ZONE 5	AD-01
		6/28/2019	FD1-120	SCHEDULE 1 BOARDING/TICKET LEVEL OVERALL DEMO PLAN	
		6/28/2019	FD1-121	SCHEDULE 1 BOARDING LEVEL DEMO PLAN ZONE 1	
		6/28/2019	FD1-123	SCHEDULE 1 TICKET LEVEL DEMO PLAN ZONE 3	
		6/28/2019	FD1-125	SCHEDULE 1 TICKET LEVEL DEMO PLAN ZONE 5	
		6/28/2019	F1-001	SCHEDULE 1 LEGENDS & DETAILS	
		6/28/2019	F1-110	SCHEDULE 1 RAMP LEVEL OVERALL PLAN	
		6/28/2019	F1-111	SCHEDULE 1 RAMP LEVEL PLAN ZONE 1	
1	7/12/2019	6/28/2019	F1-112	SCHEDULE 1 RAMP LEVEL PLAN ZONE 2	AD-01
		6/28/2019	F1-113	SCHEDULE 1 RAMP LEVEL PLAN ZONE 3	
		6/28/2019	F1-114	SCHEDULE 1 RAMP LEVEL PLAN ZONE 4	
1	7/12/2019	6/28/2019	F1-115	SCHEDULE 1 RAMP LEVEL PLAN ZONE 5	AD-01
		6/28/2019	F1-120	SCHEDULE 1 BOARDING/ TICKET LEVEL OVERALL PLAN	
1	7/12/2019	6/28/2019	F1-121	SCHEDULE 1 BOARDING LEVEL PLAN ZONE 1	AD-01
		6/28/2019	F1-122	SCHBEDULE 1 BOARDING LEVEL PLAN ZONE 2	
		6/28/2019	F1-123	SCHEDULE 1 TICKET LEVEL PLAN ZONE 3	
		6/28/2019	F1-125	SCHEDULE 1 TICKET LEVEL PLAN ZONE 5	
		6/28/2019	F1-170	SCHEDULE 1 ROOF LEVEL OVERALL PLAN	
		6/28/2019	FD2-110	SCHEDULE 2 RAMP LEVEL OVERALL DEMO PLAN	
		6/28/2019	FD2-111	SCHEDULE 2 RAMP LEVEL DEMO PLAN ZONE 1	
		6/28/2019	FD2-113	SCHEDULE 2 RAMP LEVEL DEMO PLAN ZONE 3	
		6/28/2019	FD2-114	SCHEDULE 2 RAMP LEVEL DEMO PLAN ZONE 4 ALTERNATE 1	
1	7/12/2019	6/28/2019	FD2-115	SCHEDULE 2 RAMP LEVEL DEMO PLAN ZONE 5	AD-01
		6/28/2019	FD2-120	SCHEDULE 2 BOARDING/TICKET LEVEL OVERALL DEMO PLAN	
		6/28/2019	FD2-121	SCHEDULE 2 BOARDING LEVEL DEMO PLAN ZONE 1	
		6/28/2019	FD2-123	SCHEDULE 2 TICKET LEVEL DEMO PLAN ZONE 3	
		6/28/2019	FD2-124	SCHEDULE 2 TICKET LEVEL DEMO PLAN ZONE 4 ALTERNATE 1	
		6/28/2019	FD2-125	SCHEDULE 2 TICKET LEVEL DEMO PLAN ZONE 5	
		6/28/2019	F2-001	SCHEDULE 2 LEGENDS & DETAILS	
		6/28/2019	F2-110	SCHEDULE 2 RAMP LEVEL OVERALL PLAN	
		6/28/2019	F2-111	SCHEDULE 2 RAMP LEVEL PLAN ZONE 1	
		6/28/2019	F2-113	SCHEDULE 2 RAMP LEVEL PLAN ZONE 3	
		6/28/2019	F2-114	SCHEDULE 2 RAMP LEVEL PLAN ZONE 4 ALTERNATE 1	
1	7/12/2019	6/28/2019	F2-115	SCHEDULE 2 RAMP LEVEL PLAN ZONE 5	AD-01
		6/28/2019	F2-120	SCHEDULE 2 BOARDING/TICKET LEVEL OVERALL	
1	7/30/2019	6/28/2019	F2-121	SCHEDULE 2 BOARDING LEVEL PLAN ZONE 1	AD-03
		6/28/2019	F2-123	SCHEDULE 2 TICKET LEVEL PLAN ZONE 3	
		6/28/2019	F2-124	SCHEDULE 2 TICKET LEVEL PLAN ZONE 4 ALTERNATE 1	
		6/28/2019	F2-125	SCHEDULE 2 TICKET LEVEL PLAN ZONE 5	

PLUMBING

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME	CURRENT REVISION DESCRIPTION
		6/28/2019	P1-801	SCHEDULE 1 - SECTIONS PLUMBING	
		6/28/2019	P1-802	SCHEDULE 1 - SECTIONS PLUMBING	
		6/28/2019	P1-803	SCHEDULE 1 - SECTIONS PLUMBING	
		6/28/2019	P1-804	SCHEDULE 1 - SECTIONS PLUMBING	
		6/28/2019	P2-801	SCHEDULE 2 SECTIONS PLUMBING	
		6/28/2019	P2-802	SCHEDULE 2 SECTIONS PLUMBING	
		6/28/2019	P2-803	SCHEDULE 2 SECTIONS PLUMBING	
		6/28/2019	P2-804	SCHEDULE 2 SECTIONS PLUMBING	
		6/28/2019	PD1-110	SCHEDULE 1 RAMP LEVEL OVERALL DEMO PLAN	
		6/28/2019	PD1-111	SCHEDULE 1 RAMP LEVEL DEMO PLAN ZONE 1	
		6/28/2019	PD1-113	SCHEDULE 1 RAMP LEVEL DEMO PLAN ZONE 3	
		6/28/2019	PD1-115	SCHEDULE 1 RAMP LEVEL DEMO PLAN ZONE 5	
		6/28/2019	PD1-120	SCHEDULE 1 BOARDING/ TICKET LEVEL OVERALL DEMO PLAN	
		6/28/2019	PD1-121	SCHEDULE 1 BOARDING LEVEL DEMO PLAN ZONE 1	
		6/28/2019	PD1-123	SCHEDULE 1 TICKET LEVEL DEMO PLAN ZONE 3	
1	7/12/2019	6/28/2019	P1-001	PLUMBING LEGEND,SCHEDULES & DETAILS	AD-01
		6/28/2019	P1-002	PLUMBING DETAILS (AD-01)	
		6/28/2019	P1-110	SCHEDULE 1 RAMP LEVEL OVERALL PLAN	
1	7/12/2019	6/28/2019	P1-111	SCHEDULE 1 RAMP LEVEL PLAN ZONE 1	AD-01
2	7/30/2019	6/28/2019	P1-112	SCHEDULE 1 RAMP LEVEL PLAN ZONE 2	AD-03
		6/28/2019	P1-113	SCHEDULE 1 RAMP LEVEL PLAN ZONE 3	
		6/28/2019	P1-115	SCHEDULE 1 RAMP LEVEL PLAN ZONE 5	
		6/28/2019	P1-120	SCHEDULE 1 BOARDING/ TICKET LEVEL OVERALL PLAN	
1	7/12/2019	6/28/2019	P1-121	SCHEDULE 1 BOARDING LEVEL PLAN ZONE 1	AD-01
		6/28/2019	P1-123	SCHEDULE 1 TICKET LEVEL PLAN ZONE 3	
		6/28/2019	P1-125	SCHEDULE 1 TICKET LEVEL PLAN ZONE 5	
		6/28/2019	P1-200	ENLARGED PLUMBING PLANS	
		6/28/2019	PD2-110	SCHEDULE 2 RAMP LEVEL OVERALL DEMP PLAN	
		6/28/2019	PD2-111	SCHEDULE 2 RAMP LEVEL DEMO PLAN ZONE 1	
		6/28/2019	PD2-113	SCHEDULE 2 RAMP LEVEL DEMO PLAN ZONE 3	
		6/28/2019	PD2-114	SCHEDULE 2 RAMP LEVEL DEMP PLAN ZONE 4 ALTERNATE 1	
		6/28/2019	PD2-115	SCHEDULE 2 RAMP LEVEL DEMO PLAN ZONE 5	
		6/28/2019	PD2-120	SCHEDULE 2 BOARDING/ TICKET LEVEL OVERALL DEMO PLAN	
		6/28/2019	PD2-121	SCHEDULE 2 BOARDING LEVEL DEMO PLAN ZONE 1	
		6/28/2019	PD2-124	SCHEDULE 2 TICKET LEVEL DEMO PLAN ZONE 4 ALTERNATE 1	
		6/28/2019	PD2-125	SCHEDULE 2 TICKET LEVEL DEMO PLAN ZONE 5	
1	7/12/2019	6/28/2019	P2-001	PLUMBING LEGEND, SCHEDULE, & DETAILS	AD-01
		6/28/2019	P2-002	PLUMBING DETAILS	
		6/28/2019	P2-110	SCHEDULE 2 RAMP LEVEL OVERALL PLAN	
1	7/12/2019	6/28/2019	P2-111	SCHEDULE 2 RAMP LEVEL PLAN ZONE 1	AD-01
1	7/12/2019	6/28/2019	P2-113	SCHDULE 2 RAMP LEVEL PLAN ZONE 3	AD-01
1	7/12/2019	6/28/2019	P2-114	SCHEDULE 2 RAMP LEVEL PLAN ZONE 4	AD-01
		6/28/2019	P2-115	SCHEDULE 2 RAMP LEVEL PLAN ZONE 5	
		6/28/2019	P2-120	SCHDULE 2 BOARDING/ TICKET LEVEL OVERALL PLAN	
2	7/30/2019	6/28/2019	P2-121	SCHEDULE 2 BOARDING LEVEL PLAN ZONE 1	AD-03
		6/28/2019	P2-124	SCHEDULE 2 TICKET LEVEL PLAN ZONE 4	
		6/28/2019	P2-125	SCHEDULE 2 TICKET LEVEL PLAN ZONE 5	
		6/28/2019	P2-200	ENLARGED PLUMBING PLANS ZONES 1 & 3	
		6/28/2019	P2-201	ENLARGED PLUMBING PLANS ZONE 5	

MECHANICAL

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME	CURRENT REVISION DESCRIPTION
		6/28/2019	M-001	MECHANICAL LEGEND, ENERGY SCHEDULE & DETAILS	
		6/28/2019	MD1-110	SCHEDULE 1-RAMP LEVEL OVERALL MECH PLAN-DEMOLITION	
		6/28/2019	MD1-111	SCHEDULE 1-RAMP LEVEL MECH PLAN-ZONE 1 DEMOLITION	
		6/28/2019	MD1-113	SCHEDULE 1-RAMP LEVEL MECH PLAN-ZONE 3 DEMOLITION	
		6/28/2019	MD1-115	SCHEDULE 1-RAMP LEVEL MECH PLAN-ZONE 5 DEMOLITION	
		6/28/2019	MD1-121	SCHEDULE 1 BOARDING LEVEL MECH PLAN ZONE 1 DEMOLITION	
		6/28/2019	MD1-123	SCHEDULE 1 TICKET LEVEL MECHANICAL PLAN ZONE 3 DEMOLITION	
		6/28/2019	MD1-170	SCHEDULE 1-ROOF LEVEL OVERALL MECH PLAN ZONE 1 DEMOLITION	
		6/28/2019	MD1-211	SCHEDULE 1- RAMP LEVEL MECH PIPING PLAN ZONE 1 DEMOLITION	
		6/28/2019	MD1-213	SCHEDULE 1- RAMP LEVEL MECH PIPING PLAN- ZONE 3 DEMOLITION	
		6/28/2019	MD1-225	SCHEDULE 1 TICKET LEVEL MECHANICAL PIPING PLAN ZONE 1 DEMOLITION	
		6/28/2019	MD1-401	SCHEDULE 1-ENLARGED BOILER CHILLER MECH ROOM DEMOLITION	
		6/28/2019	M1-110	SCHEDULE 1 RAMP LEVEL OVERALL MECH PLAN	
		6/28/2019	M1-111	SCHEDULE 1- RAMP LEVEL FLOOR PLAN ZONE 1	
		6/28/2019	M1-112	SCHEDULE 1 RAMP LEVEL MECH PLAN ZONE 2	
		6/28/2019	M1-113	SCHEDULE 1 RAMP LEVEL FLOOR PLAN ZONE 3	
		6/28/2019	M1-115	SCHEDULE 1 RAMP LEVEL FLOOR PLAN ZONE 5	
		6/28/2019	M1-121	SCHEDULE 1 BOARDING LEVEL PLAN ZONE 1	
1	7/30/2019	6/28/2019	M1-122	SCHEDULE 1 BOARDING LEVEL MECH PLAN ZONE 2	AD-03
		6/28/2019	M1-123	SCHEDULE 1 TICKET LEVEL MECH PLAN ZONE 3	
		6/28/2019	M1-170	SCHEDULE 1 ROOF LEVEL OVERALL PLAN	
		6/28/2019	M1-211	SCHEDULE 1 RAMP LEVEL MECH PIPING PLAN ZONE 1	
		6/28/2019	M1-212	SCHEDULE 1- RAMP LEVEL MECH PIPING PLAN- ZONE 2	
		6/28/2019	M1-213	SCHEDULE 1 RAMP LEVEL MECH PIPING PLAN ZONE 3	
1	7/30/2019	6/28/2019	M1-215	SCHEDULE 1 RAMP LEVEL MECH PIPING PLAN ZONE 5	AD-03
		6/28/2019	M1-221	SCHEDULE 1 BOARDING LEVEL MECH PIPING PLAN ZONE 1	
1	7/30/2019	6/28/2019	M1-222	SCHEDULE 1 BOARDING LEVEL MECH PIPING PLAN ZONE 2	AD-03
		6/28/2019	M1-223	SCHEDULE 1 TICKET LEVEL MECH PIPING PLAN ZONE 3	
		6/28/2019	M1-401	SCHEDULE 1 ENLARGED BOILER CHILLER MECH ROOM-RENOVATION	
1	7/30/2019	6/28/2019	M1-402	SCHEDULE 1-ENLARGED COOLING TOWERS	AD-03
		6/28/2019	M1-403	ENLARGED NEW MECHNICAL PLANT	
		6/28/2019	MD2-111	SCHEDULE 2 RAMP LEVEL MECH PLAN ZONE 1 DEMOLITION	
		6/28/2019	MD2-113	SCHEDULE 2 RAMP LEVEL MECH PLAN ZONE 3 DEMOLITION	
		6/28/2019	MD2-114	SCHEDULE 2 RAMP LEVEL MECH PLAN ZONE 4 DEMOLITION	
		6/28/2019	MD2-121	SCHEDULE 2 BOARDING LEVEL MECH PLAN ZONE 1 DEMOLITION	
		6/28/2019	MD2-122	SCHEDULE 2 BOARDING LEVEL MECH PLAN ZONE 2 DEMOLITION	
		6/28/2019	MD2-123	SCHEDULE 2 TICKET LEVEL MECH PLAN ZONE 3 DEMOLITION	
		6/28/2019	MD2-124	SCHEDULE 2 TICKET LEVEL MECH PLAN ZONE 4 DEMOLITION	
		6/28/2019	MD2-125	SCHEDULE 2 TICKET LEVEL MECH PLAN ZONE 5 DEMOLITION	
		6/28/2019	MD2-170	SCHEDULE 2- ROOF LEVEL OVERALL MECH PLAN- DEMOLITION	
		6/28/2019	MD2-211	SCHEDULE 2 RAMP LEVEL MECH PIPING PLAN ZONE 1 DEMOLITION	
		6/28/2019	MD2-213	SCHEDULE 2 RAMP LEVEL MECH PIPING PLAN ZONE 3 DEMOLITION	
		6/28/2019	MD2-214	SCHEDULE 2- RAMP LEVEL MECH PIPING PLAN-ZONE 4 DEMO ALT 1	
		6/28/2019	MD2-223	SCHEDULE 2- TICKET LEVEL MECH PIPING PLAN- ZONE 3 DEMOLITION	
		6/28/2019	MD2-224	SCHEDULE 2- TICKET LEVEL MECH PIPING PLAN- ZONE 4 DEMO ALT 1	
		6/28/2019	MD2-225	SCHEDULE 2- TICKET LEVEL MECH PIPING PLAN- ZONE 5 DEMOLITION	
		6/28/2019	M2-111	SCHEDULE 2 RAMP LEVEL MECH PLAN ZONE 1	
		6/28/2019	M2-113	SCHEDULE 2 RAMP LEVEL MECH PLAN ZONE 3	
1	7/30/2019	6/28/2019	M2-114	SCHEDULE 2 RAMP LEVEL MECH PLAN ZONE 4	AD-03
		6/28/2019	M2-121	SCHEDULE 2 BOARDING LEVEL MECH PLAN ZONE 1	
		6/28/2019	M2-122	SCHEDULE 2 BOARDING LEVEL MECH PLAN ZONE 2	
1	7/30/2019	6/28/2019	M2-123	SCHEDULE 2 TICKET LEVEL MECH PLAN ZONE 3	AD-03
		6/28/2019	M2-124	SCHEDULE 2 TICKET LEVEL MECH PLAN ZONE 4	
		6/28/2019	M2-125	SCHEDULE 2 TICKET LEVEL MECH PLAN ZONE 5	
		6/28/2019	M2-170	SCHNEDULE 2 ROOF LEVEL-OVERALL MECHANICAL PLAN	
		6/28/2019	M2-211	SCHEDULE 2 RAMP LEVEL MECH PIPING PLAN ZONE 1	
		6/28/2019	M2-213	SCHEDULE 2 RAMP LEVEL MECH PIPING PLAN ZONE 3	
		6/28/2019	M2-214	SCHEDULE 2 RAMP LEVEL MECH PIPING PLAN ZONE 4	
		6/28/2019	M2-221	SCHEDULE 2 BOARDING LEVEL MECH PIPING PLAN ZONE 1	
		6/28/2019	M2-223	SCHEDULE 2 TICKET LEVEL MECH PIPING PLAN ZONE 3	
		6/28/2019	M2-225	SCHEDULE 2 TICKET LEVEL MECHANICAL PIPING PLAN ZONE 5	
		6/28/2019	M-401	CHILLED WATER PIPING SCHEMATICS	
		6/28/2019	M-402	HOT WATER PIPING SCHEMATICS	
		6/28/2019	M-501	MECHANICAL DETAILS	
		6/28/2019	M-502	MECHANICAL DETAILS	
		6/28/2019	M-601	MECHANICAL SCHEDULES (AD-03)	
		6/28/2019	M-602	MECHANICAL SCHEDULES	
		6/28/2019	M-603	MECHANICAL SCHEDULES	
		6/28/2019	M-701	MECHANICAL CONTROL DIAGRAMS	
		6/28/2019	M-702	MECHANICAL CONTROL DIAGRAMS	
		6/28/2019	M-703	MECHANICAL CONTROL DIAGRAMS	
		6/28/2019	M-704	MECHANICAL CONTROL DIAGRAMS	
		6/28/2019	M-705	MECHANICAL CONTROL DIAGRAMS	
		6/28/2019	M-706	MECHANICAL CONTROL DIAGRAMS	
		6/28/2019	M-707	MECHANICAL CONTROL DIAGRAMS	
		6/28/2019	M-708	MECHANICAL CONTROL DIAGRAMS	
		6/28/2019	M-709	MECHANICAL CONTROL DIAGRAMS	
		6/28/2019	M-801	MECHANICAL SECTIONS	
		6/28/2019	M-802	MECHANICAL SECTIONS	

ELECTRICAL

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME	CURRENT REVISION DESCRIPTION
		6/28/2019	E-001	ELECTRICAL NOTES, SHEET LIST, & APP B SUMMARY	
		6/28/2019	E-002	ELECTRICAL LEGENDS (AD-03)	
		6/28/2019	ED1-111	SCHEDULE 1 RAMP LEVEL DEMO PLAN ZONE 1	
		6/28/2019	ED1-113	SCHEDULE 1 RAMP LEVEL DEMO PLAN ZONE 3	
		6/28/2019	ED1-114	SCHEDULE 1 RAMP LEVEL DEMO PLAN ZONE 4	
		6/28/2019	ED1-115	SCHEDULE 1 RA,MP LEVEL DEMO PLAN ZONE 5	
		6/28/2019	ED1-121	SCHEDULE 1 BOARDING LEVEL DEMO PLAN ZONE 1	
		6/28/2019	ED1-123	SCHEDULE 1 BOARDING LEVEL DEMO PLAN ZONE 3	
		6/28/2019	ED1-125	SCHEDULE 1 BOARDING LEVEL DEMO PLAN ZONE 5	
1	7/30/2019	6/28/2019	E1-109	SCHEDULE 1 ELECTRICAL SITE PLAN	AD-03
		6/28/2019	E1-110	SCHEDULE 1 RAMP LEVEL OVERALL PLAN	
1	7/30/2019	6/28/2019	E1-111	SCHEDULE 1 RAMP LEVEL POWER PLAN ZONE 1	AD-03
1	7/30/2019	6/28/2019	E1-112	SCHEDULE 1 RAMP LEVEL POWER PLAN ZONE 2	AD-03
		6/28/2019	E1-113	SCHEDULE 1 RAMP LEVEL POWER PLAN ZONE 3	
		6/28/2019	E1-114	SCHEDULE 1 RAMP LEVEL POWER PLAN ZONE 4	
		6/28/2019	E1-115	SCHEDULE 1 RAMP LEVEL POWER PLAN ZONE 5	
		6/28/2019	E1-116	SCHEDULE 1 ELECTRICAL RAMP LEVEL POWER PLAN ZONE 6	
		6/28/2019	E1-121	SCHEDULE 1 RAMP LEVEL LIGHTING PLAN ZONE 1	
		6/28/2019	E1-122	SCHEDULE 1 RAMP LEVEL LIGHTING PLAN ZONE 2	
		6/28/2019	E1-123	SCHEDULE 1 RAMP LEVEL LIGHTING PLAN ZONE 3	
		6/28/2019	E1-124	SCHEDULE 1 ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 4	
		6/28/2019	E1-131	SCHDULE 1 RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 1	
1	7/30/2019	6/28/2019	E1-132	SCHEDULE 1 RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 2	AD-03
		6/28/2019	E1-133	SCHEDULE 1 RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 3	
		6/28/2019	E1-135	SCHEDULE 1 RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 5	
		6/28/2019	E1-136	SCHEDULE 1 RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 6	
		6/28/2019	E1-140	SCHEDULE 1 BOARDING LEVEL OVERALL PLAN	
1	7/30/2019	6/28/2019	E1-141	SCHEDULE 1 BOARDING LEVEL POWER PLAN ZONE 1	AD-03
1	7/30/2019	6/28/2019	E1-142	SCHEDULE 1 BOARDING LEVEL POWER PLAN ZONE 2	AD-03
1	7/30/2019	6/28/2019	E1-143	SCHEDULE 1 BOARDING LEVEL POWER PLAN ZONE 3	AD-03
1	7/30/2019	6/28/2019	E1-151	SCHEDULE 1 BOARDING LEVEL LIGHTING PLAN ZONE 1	AD-03
1	7/30/2019	6/28/2019	E1-152	SCHEDULE 1 BOARDING LEVEL LIGHTING PLAN ZONE 2	AD-03
		6/28/2019	E1-153	SCHEDULE 1 BOARDING LEVEL LIGHTING PLAN ZONE 3	
		6/28/2019	E1-157	SCHEDULE 1 CLERESTORY LEVEL LIGHTING PLAN	
1	7/30/2019	6/28/2019	E1-161	SCHEDULE 1 BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 1	AD-03
1	7/30/2019	6/28/2019	E1-162	SCHEDULE 1 BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 2	AD-03
		6/28/2019	E1-163	SCHEDULE 1 BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 3	
		6/28/2019	E1-171	SCHEDULE 1 ROOF PLAN ZONE 1	
		6/28/2019	E1-172	SCHEDULE 1 ROOF PLAN ZONE 2	
		6/28/2019	E1-173	SCHEDULE 1 ROOF PLAN ZONE 3	
		6/28/2019	E1-401	SCHEDULE 1 ENLARGED ELECTRICAL ROOM PLANS	
		6/28/2019	E1-402	SCHEDULE 1 ELECTRICAL GENERATOR & UTILITY XFMR PLANS	
		6/28/2019	E1-403	SCHEDULE 1 ELECTRICAL ENLARGED PLANS MECHANICAL A4	
		6/28/2019	E1-404	SCHEDULE 1 ENLARGED PLANS- MECHANICAL A4	
		6/28/2019	ED2-111	SCHEDULE 2 RAMP LEVEL DEMO PLAN ZONE 1	
		6/28/2019	ED2-112	SCHEDULE 2 ELECTRICAL RAMP LEVEL DEMOLITION PLAN ZONE 2	
		6/28/2019	ED2-113	SCHEDULE 1 RAMP LEVEL DEMO PLAN ZONE 3	
		6/28/2019	ED2-114	SCHEDULE 2 RAMP LEVEL DEMO PLAN ZONE 4	
		6/28/2019	ED2-115	SCHEDULE 2 ELECTRICAL RAMP LEVEL DEMOLITION PLAN ZONE 5	
		6/28/2019	ED2-121	SCHEDULE 2 BOARDING LEVEL DEMO PLAN ZONE 1	
		6/28/2019	ED2-123	SCHEDULE 2 BOARDING LEVEL DEMO PLAN ZONE 3	
1	7/30/2019	6/28/2019	ED2-124	SCHEDULE 2 BOARDING LEVEL DEMO PLAN ZONE 4	AD-03
		6/28/2019	ED2-125	SCHEDULE 2 BOARDING LEVEL DEMO PLAN ZONE 5	
		6/28/2019	E2-110	SCHEDULE 2 OVERALL PLAN	
1	7/30/2019	6/28/2019	E2-111	SCHEDULE 2 RAMP LEVEL POWER PLAN ZONE 1	AD-03
1	7/30/2019	6/28/2019	E2-113	SCHEDULE 2 RAMP LEVEL POWER PLAN ZONE 3	AD-03
		6/28/2019	E2-114	SCHEDULE 2 RAMP LEVEL POWER PLAN ZONE 4	
		6/28/2019	E2-115	RAMP LEVEL POWER PLAN ZONE 5	
		6/28/2019	E2-121	SCHEDULE 2 RAMP LEVEL LIGHTING PLAN ZONE 1	
		6/28/2019	E2-123	RAMP LEVEL POWER PLAN ZONE 3	
		6/28/2019	E2-124	SCHEDULE 2 RAMP LEVEL LIGHTING PLAN ZONE 4	
		6/28/2019	E2-125	SCHEDULE 2 ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 5	
1	7/30/2019	6/28/2019	E2-131	SCHEDULE 2 RAMP LEVEL AUXILIARY SYSTEMS ZONE 1	AD-03
		6/28/2019	E2-133	SCHEDULE 2 RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 3	
		6/28/2019	E2-134	SCHEDULE 2 RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 4	
		6/28/2019	E2-135	SCHEDULE 2 ELECTRICAL RAMP LEVEL AUX SYSTEMS PLAN ZONE 5	
1	7/30/2019	6/28/2019	E2-140	SCHEDULE 2 ELECTRICAL BOARDING/TICKET LEVEL OVERALL PLAN	AD-03
1	7/30/2019	6/28/2019	E2-141	SCHEDULE 2 BOARDING LEVEL POWER PLAN ZONE 1	AD-03
1	7/30/2019	6/28/2019	E2-142	SCHEDULE 2 BOARDING LEVEL POWER PLAN ZONE 2	AD-03
1	7/30/2019	6/28/2019	E2-143	SCHEDULE 2 BOARDING LEVEL POWER PLAN ZONE 3	AD-03
		6/28/2019	E2-144	SCHEDULE 2 BOARDING LEVEL POWER PLAN ZONE 4	
1	7/30/2019	6/28/2019	E2-145	SCHEDULE 2 BOARDING LEVEL POWER PLAN ZONE 5	AD-03
1	7/30/2019	07/29/19	E2-146	SCHEDULE 2 ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 6	AD-03
1	7/30/2019	6/28/2019	E2-151	SCHEDULE 2 BOARDING LEVEL LIGHTING PLAN ZONE 1	AD-03
		6/28/2019	E2-153	SCHEDULE 2 BOARDING LEVEL LIGHTING PLAN ZONE 3	
1	7/30/2019	6/28/2019	E2-154	SCHEDULE 2 BOARDING LEVEL LIGHTING PLAN ZONE 4	AD-03
1	7/30/2019	6/28/2019	E2-155	SCHEDULE 2 BOARDING LEVEL LIGHTING PLAN ZONE 5	AD-03
		6/28/2019	E2-156	SCHEDULE 2 ELECTRICAL BOARDING/ TICKET LEVEL LIGHTING PLAN ZONE 6	
1	7/30/2019	6/28/2019	E2-161	SCHEDULE 2 BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 1	AD-03
		6/28/2019	E2-163	SCHEDULE 2 BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 3	
		6/28/2019	E2-164	SCHEDULE 2 BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 4	
1	7/30/2019	6/28/2019	E2-165	SCHEDULE 2 BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 5	AD-03
		6/28/2019	E2-166	SCHEDULE 2 ELECTRICAL BOARDING LEVEL AUX SYSTEMS PLAN ZONE 6	
		6/28/2019	E2-171	SCHEDULE 1 ROOF PLAN ZONE 1	
		6/28/2019	E2-173	SCHEDULE 1 ROOF PLAN ZONE 3	
		6/28/2019	E2-174	SCHEDULE 1 ROOF PLAN ZONE 4	
		6/28/2019	E-501	ELECTRICAL DETAILS	
		6/28/2019	E-502	ELECTRICAL DETAILS	
		6/28/2019	E-503	ELECTRICAL DETAILS	
		6/28/2019	E-504	ELECTRICAL DETAILS	
1	7/30/2019	6/28/2019	E-601	LUMINAIRE AND DIMMER SCHEDULE	AD-03
1	7/30/2019	6/28/2019	E-602	EQUIPMENT CIRCUITRY SCHEDULES	AD-03
		6/28/2019	E-603	ELECTRICAL PANEL SCHEDULES	
		6/28/2019	E-604	ELECTRICAL PANEL SCHEDULES	
		6/28/2019	E-605	ELECTRICAL PANEL SCHEDULES	
		6/28/2019	E-606	ELECTRICAL PANEL SCHEDULES	
		6/28/2019	E-701	SCHEDULE 1 ELECTRICAL POWER RISER DIAGRAM	
		6/28/2019	E-702	SCHEDULE 1 ELECTRICAL POWER RISER DIAGRAM	
		6/28/2019	E-703	MISC RISER DIAGRAMS (AD-03)	
		6/28/2019	E-801	ELECTRICAL PA ZONE COVERAGE PLAN	

AIRCRAFT SUPPORT SYSTEMS

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME	CURRENT REVISION DESCRIPTION
		6/28/2019	ACP-100	APRON MARKING PLANS AIRCRAFT PARKING LAYOUT DURING CONSTR	
		6/28/2019	ACP-101	AIRCRAFT PARKING LAYOUT DURING CONSTR - CONTRACT 2, SCH 1	
		6/28/2019	ACP-102	AIRCRAFT PARKING LAYOUT DURING CONSTR - CONTRACT 3. SCH 2	
		6/28/2019	ACP-103	AIRCRAFT PARKING LAYOUT - CONTRACT 3. FINAL	
		6/28/2019	ACP-200	APRON MARKING PLANS APRON MARKING DEMOLITION PLAN	
		6/28/2019	ACP-201	AIRCRAFT PARKING LAYOUT DURING SCHEDULE 1-CONTRACT 3. SCH 1	
		6/28/2019	ACP-202	APL DURING CONSTRUCTION C-3 SCHEDULE 2	
		6/28/2019	ACP-203	APL C-3 FINAL	
		6/28/2019	ACP-300	APM- PLANS OVERALL MARKING PLAN	
		6/28/2019	ACP-301	AMP-LEAD-IN LINES GATE 1, 1A,5,5A,7,8,8A	
		6/28/2019	ACP-302	AM PLANS,- LEAD-IN LINES GATE 2&6	
		6/28/2019	ACP-303	AM PLANS-AS ENVELOPE GATE 1,1A,5,5A,7,8,8A	
		6/28/2019	ACP-304	AM PLANS- AS ENVELOPE GATE 2&6 PBB SAFTY ENVELOPE	
		6/28/2019	ACP-305	AM PLANS-STOP BAR MARKINGS & PASSENGER WALKWAYS	
		6/28/2019	ACP-310	AP LAYOUT DURING CONSTRUT - C-3 SCHEDULE 1	
		6/28/2019	ACP-311	AM PLANS GATE 2,6,8A C-3 SCHEDULE 1	
		6/28/2019	ACP-320	OVERALL AM PLAN-C-3 SCHEDULE 2	
		6/28/2019	ACP-321	LEAD-IN LOCATION PLAN- C-3 SCHEDULE 2	
		6/28/2019	ACP-322	LEAD-IN LINE LOCATION PLAN - C-3 SCHEDULE 2	
		6/28/2019	ACP-323	AS ENVELOPE LOCATION PLAN C-3 SCHEDULE 2	
		6/28/2019	ACP-324	AS ENVELOPE LOCATION PLAN - C-3, SCHEDULE 2	
		6/28/2019	ACP-325	PBB SAFTY ENVELOPE LOCATION PLAN C-3, SCHEDULE 2	
		6/28/2019	ACP-326	STOP BAR MARKINGS-C-3, SCHEDULE 2	
		6/28/2019	ACP-330	AP LAYOUT-C-3, FINAL	
		6/28/2019	ACP-331	LEAD-IN LOCATION PLAN- C-3, FINAL	
		6/28/2019	ACP-332	AS ENVELOPE LOCATION PLAN - C-3 FINAL	
		6/28/2019	ACP-333	PBB SAFETY ENVELOPE LOCATION PLAN - C-3, FINAL	
		6/28/2019	ACP-334	STOP BAR MARKING PLAN - C-3, FINAL	
		6/28/2019	ACP-400	APRON MARKING PLANS- DETAILS	

BAGGAGE HANDLING

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME	CURRENT REVISION DESCRIPTION
		6/28/2019	B-000	BAGGAGE HANDLING EQUIPMENT LEGENDS, SYMBOLS & ABBREVIATIONS	
		6/28/2019	B-100	GENERAL ARRANGEMENT BASEMENT LEVEL EXISTING CONDITIONS	
		6/28/2019	B-101	GENERAL ARRANGEMENT DEPARTURES/ARRIVALS LEVEL EXISTING CONDITIONS	
		6/28/2019	B-102	BASEMENT LEVEL INBOUND DEMO PLAN	
		6/28/2019	B-103	DEPARTURES/ ARRIVALS LEVEL INBOUND DEMO PLAN	
		6/28/2019	B-200	GENERAL ARRANGEMENT BASEMENT LEVEL PROPOSED	
		6/28/2019	B-201	GENERAL ARRANGEMENT DEPARTURES/ ARRIVALS LEVEL PROPOSED	
		6/28/2019	B-202	BASEMENT LEVEL INBOUND PROPOSED	
		6/28/2019	B-203	DEPARTURES/ ARRIVALS LEVEL INBOUND PROPOSED	
		6/28/2019	B-204	BASEMENT LEVEL INBOUND PROPOSED MAKE-UP TRAFFIC PLAN	
		6/28/2019	B-300	INBOUND PROPOSED SECTIONS	
		6/28/2019	B-301	EQUIP INBOUND SECTIONS	
		6/28/2019	B-400	BASEMENT LEVEL INBOUND PROPOSED CATWALK	
		6/28/2019	B-500	TYPICAL LOADING DIAGRAMS	
		6/28/2019	B-501	TYPICAL CONVEYOR SUPPORTS AND ATTACHMENT DETAILS	
		6/28/2019	B-502	TYPICAL LADDER AND STAIR LANDING DETAILS	
		6/28/2019	B-503	TYPICAL CONVEYOR SUPPORTS AND ATTACHMENT DETAILS	
		6/28/2019	B-504	TYPICAL FIRE/ SECURITY DOOR & ACCESS HATCH DETAILS	
		6/28/2019	B-505	TYPICAL INCLINE PLATE CLAIM DEVICE DETAILS	
		6/28/2019	B-506	TYPICAL IMPACT PROTECTION DETAILS	
		6/28/2019	B-507	TYPICAL WARNING SIGNAGE	
		6/28/2019	B-508	TYPICAL WARNING SIGNAGE	
		6/28/2019	B-600	POWER REQUIREMENTS	
		6/28/2019	B-601	TYPICAL CONTROL STATION AND DISPLAYS	
		6/28/2019	B-602	EQUIPMENT POWER REQUIREMENTS	
		6/28/2019	B-700	EQIPMENT PHASING PLAN	
		6/28/2019	B-701	EQUIPMENT PHASING PLAN	
		6/28/2019	B-702	EQUIPMENT PHASING PLAN	
		6/28/2019	B-703	EQUIPMENT PHASING PLAN	
		6/28/2019	B-704	EQUIPMENT PHASING PLAN	
		6/28/2019	B-705	EQUIPMENT PHASING PLAN	

SIGNAGE

REV.	CURRENT REVISION DATE	ORIGINAL ISSUANCE DATE	SHEET NO.	SHEET NAME	CURRENT REVISION DESCRIPTION
		6/28/2019	AG-1	SIGNAGE	
		6/28/2019	AG-2	SIGNAGE	
		6/28/2019	AG-3	SIGNAGE	
		6/28/2019	AG-4	SIGNAGE	
		6/28/2019	AG-5	SIGNAGE	
1	7/30/2019	6/28/2019	AG-6	SIGNAGE	AD-03
		6/28/2019	AG-7	SIGNAGE	
		6/28/2019	AG-8	SIGNAGE	
		6/28/2019	AG-9	SIGNAGE	
		6/28/2019	AG-10	SIGNAGE ASSEMBLY	
		6/28/2019	AG-11	SIGNAGE ASSEMBLY	
		6/28/2019	AG-12	SIGNAGE ASSEMBLY	
		6/28/2019	AG-13	SIGNAGE ASSEMBLY	
		6/28/2019	AG-14	SIGNAGE ASSEMBLY	
		6/28/2019	AG-15	SIGNAGE ASSEMBLY	
		6/28/2019	AG-16	SIGNAGE ASSEMBLY	
		6/28/2019	AG-17	SIGNAGE ASSEMBLY	
		6/28/2019	AG-18	SIGNAGE ASSEMBLY	
		6/28/2019	AG-19	SIGNAGE ASSEMBLY	
		6/28/2019	AG-20	SIGNAGE ASSEMBLY	
		6/28/2019	AG-21	SIGNAGE ASSEMBLY	
		6/28/2019	AG-22	SIGNAGE ASSEMBLY	
		6/28/2019	AG-23	SIGNAGE ASSEMBLY	
		6/28/2019	AG-24	SIGNAGE ASSEMBLY	
		6/28/2019	AG-25	SIGNAGE ASSEMBLY	
		6/28/2019	AG-26	SIGNAGE LOCATION PLAN	
		6/28/2019	AG-27	SIGNAGE LOCATION PLAN	
		6/28/2019	AG-28	SIGNAGE LOCATION PLAN	
		6/28/2019	AG-29	SIGNAGE LOCATION PLAN	
		6/28/2019	AG-30	SIGNAGE LOCATION PLAN	
		6/28/2019	AG-31	SIGNAGE LOCATION PLAN	
		6/28/2019	AG-32	SIGNAGE LOCATION PLAN	
		6/28/2019	AG-33	SIGNAGE LOCATION PLAN	
		6/28/2019	AG-34	SIGNAGE LOCATION PLAN	
		6/28/2019	AG-35	SIGNAGE LOCATION PLAN	
		6/28/2019	AG-36	SIGNAGE SPECS	
		6/28/2019	AG-37	SIGNAGE SPECS	
		6/28/2019	AG-38	SIGNAGE SPECS	
		6/28/2019	AG-39	SIGNAGE SPECS	
		6/28/2019	AG-40	SIGNAGE SPECS	
		6/28/2019	AG-41	SIGNAGE SPECS	
		6/28/2019	AG-42	SIGNAGE SPECS	

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

THE WILSON GROUP ARCHITECTS · REGISTERED ARCHITECTURAL CORPORATION · CERT. NO. 51140 · NORTH CAROLINA · CHARLOTTE, N.C.

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LS3P

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STEWART

FP/P/M/E ENGINEER
CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
BNP

AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SHEET INDEX
VOLUME 2

SHEET NUMBER
G-002

A/C	AIR CONDITION(ING)
ADMIN	ADMINISTRATION
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIOVISUAL
BITUM	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BN	BULL NOSE
BOS	BOTTOM OF STEEL
BOT	BOTTOM
CAB	CABINET
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CLO	CLOSET
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUE. CONTINUOUS
CORR	CORRIDOR
CU FT	CUBIC FOOT
CU YD	CUBIC YARD
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DS	DOWNSPOUT
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENCL	ENCLOSE(D)
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F/F	FACE TO FACE
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF EL	FINISH FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FIN FLR	FINISHED FLOOR
FLR	FLOOR, FILLER
FOC	FACE OF CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF SLAB
FOW	FACE OF WALL
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNISH, FURNITURE
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
HC	HANDICAP
HD	HEAVY DUTY
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
ID	INSIDE DIAMETER
INCL	INCLUDE(D), (ING)
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JAN CLO	JANITOR CLOSET
KIT	KITCHEN
KO	KNOCKOUT
LAB	LABORATORY
LAM	LAMINATE
LAU	LAUNDRY
LAV	LAVATORY
LF	LINEAR FEET
LVR	LOUVER
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NOM	NOMINAL
NON COMB	NON-COMBUSTIBLE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
OPT	OPTION(AL)
PCF	POUNDS PER CUBIC FEET
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAR FEET
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISH
PRKG	PARKING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT, POST-TENSIONED, PRE-TREATED
PVC	POLYVINYL CHLORIDE (PLASTIC)
QTR	QUARTER
QTY	QUANTITY
R	RADIUS, RISER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIGERATOR, REFERENCE
REQD	REQUIRED
RL	ROOF LEADER
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
S	SOUTH
SC	SOLID CORE
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STOR	STORAGE
SUSP	SUSPENDED
SYS	SYSTEM
T	TREAD
TEL	TELEPHONE
TEMP	TEMPORARY
TFF	TOP OF FINISH FLOOR
THK	THICKNESS
THRU	THROUGH
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE, CURB
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF SLAB
TOW	TOP OF WALL
TRTD	TREATED
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WEST, WIDE
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WC	WATER CLOSET
WD	WOOD
WP	WORKING POINT, WATERPROOFING
WR	WATER REPELLENT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

MATERIAL LEGEND

(NOT ALL MATERIALS APPLICABLE)

PLAN AND SECTION

- EARTH
- POROUS FILL (STONE OR GRAVEL)
- ROCK
- LIGHTWEIGHT CONCRETE (OR CONCRETE FILL)
- STRUCTURAL CONCRETE (CAST IN PLACE, ETC.)
- BRICK (COMMON OR FACE)
- CONC. MASONRY UNITS (C.M.U.)
- PLASTER, CEMENT, SAND, GROUT
- STEEL, IRON
- ALUMINUM
- WOOD (FINISH)
- WOOD (ROUGH)
- WOOD BLOCKING
- PLYWOOD
- SPRAY-ON FIREPROOFING
- BATT/LOOSE FILL INSULATION
- EXTRUDED POLYSTYRENE
- ACOUSTICAL TILE
- GYPSUM WALL BOARD
- CARPET AND PAD

ELEVATION

- BRICK
- BATT/LOOSE FILL INSULATION
- CONCRETE / PLASTER / STUCCO
- GLASS
- SHINGLES/ SIDING

NUMBERING SYSTEM

16	17	18	19	20
11	12	13	14	15
6	7	8	9	10
1	2	3	4	5

NOTES:
1. WHEN LESS THAN ALL SIXTEEN (16) DETAIL ZONES ARE UTILIZED OR WHEN ZONES ARE COMBINED, DETAIL NUMBERS WILL NOT BE CONSECUTIVE.
2. THE ZONE IN WHICH THE LOWER LEFT HAND CORNER OF A DETAIL IS LOCATED DETERMINES THE NUMBER OF THE DETAIL.

1

NOTE: GC TO COORDINATE DOOR LOCATIONS W/ JAMB DETAIL TYP.

KEY PLAN

ROUGH OPENING SIZE FOR DOOR

GC TO COORD. JAMB DEPTH W/ WIDTH OF TRIM

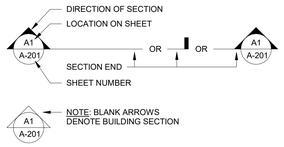
METAL STUD JAMB AS REQUIRED

PARTITION AS SCHEDULED

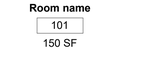
TYP. DOOR DETAIL
N.T.S.

GRAPHIC SYMBOLS

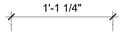
SECTIONS



ROOM NAME AND NUMBER



TYPICAL DIMENSION INDICATOR



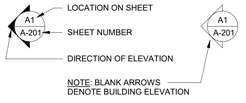
CENTERLINE

DOOR NUMBER

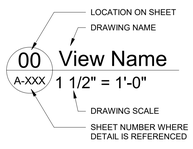
WINDOW TYPE

WALL TYPE

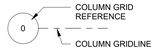
ELEVATIONS



DRAWING TITLE

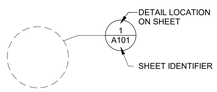


COLUMN GRID



FLOOR ELEVATION

ENLARGED DETAIL



REVISION SYMBOL

COMcheck Software Version 4.1.1.0
Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	TERMINAL IMPROVEMENTS - CONTRACT 3
Location:	Wilmington, North Carolina
Climate Zone:	3a
Project Type:	Addition
Vertical Glazing / Wall Area:	3%

Construction Site:
1740 Airport Blvd, Suite 12
Wilmington, NC 28405

Owner/Agent:
Wilmington International Airport
1740 Airport Blvd, Suite 12
Wilmington, NC 28405

Designer/Contractor:
The Wilson Group
PO Box 5510
Charlotte, NC 28299

Building Area	Floor Area
1-RAMP LEVEL (Transportation) : Nonresidential	32337

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor$_{alt}$
Floor 1: Slab-On-Grade:Unheated, [Bldg. Use 1 - RAMP LEVEL] (d)	1770	---	--	0.730	0.730
Roof 1: Other Roof, [Bldg. Use 1 - RAMP LEVEL] (b)	32337	---	---	0.045	0.027
NORTH					
Exterior Wall 1: Concrete Block:8", Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - RAMP LEVEL]	3980	0.0	14.0	0.059	0.123
Window 1: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - RAMP LEVEL] (c)	200	---	---	0.250	0.460
Door 1: Uninsulated Double-Layer Metal, Swinging, [Bldg. Use 1 - RAMP LEVEL]	168	---	---	0.350	0.610
Door 2: Insulated Metal, Non-Swinging, [Bldg. Use 1 - RAMP LEVEL]	128	---	---	0.300	0.179
EAST					
Exterior Wall 2: Concrete Block:8", Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - RAMP LEVEL]	3610	0.0	14.0	0.059	0.123
Window 2: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID NA, SHGC 0.25, PF 1.00, [Bldg. Use 1 - RAMP LEVEL] (c)	100	---	---	0.250	0.460
Door 3: Uninsulated Double-Layer Metal, Swinging, [Bldg. Use 1 - RAMP LEVEL]	126	---	---	0.350	0.610
Door 4: Insulated Metal, Non-Swinging, [Bldg. Use 1 - RAMP LEVEL]	120	---	---	0.300	0.179
SOUTH					
Exterior Wall 3: Concrete Block:8", Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - RAMP LEVEL]	4270	0.0	14.0	0.059	0.123
Window 3: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID NA, SHGC 0.25, PF 1.00, [Bldg. Use 1 - RAMP LEVEL] (c)	150	---	---	0.250	0.460
Door 5: Uninsulated Double-Layer Metal, Swinging, [Bldg. Use 1 - RAMP LEVEL]	440	---	---	0.300	0.610
WEST					
Exterior Wall 4: Concrete Block:8", Solid Grouted, Normal Density, Furring: Metal, [Bldg. Use 1 - RAMP LEVEL]	3290	0.0	14.0	0.059	0.123

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor$_{alt}$
TICKET & BOARDING LEVEL]					
WEST					
Exterior Wall 4: Steel-Framed, 16" o.c., [Bldg. Use 1 - TICKET & BOARDING LEVEL]	7464	0.0	13.0	0.083	0.064
Window 4: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - TICKET & BOARDING LEVEL] (b)	1060	---	---	0.250	0.460
Door 6: Uninsulated Double-Layer Metal, Swinging, [Bldg. Use 1 - TICKET & BOARDING LEVEL]	28	---	---	0.300	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) High albedo roof requirement options: 1) 3-year aged solar reflectance >= 0.55 thermal emittance >= 0.75, 2) 3-year aged solar reflectance index >= 64.0, 3) Initial year aged solar reflectance >= 0.70 thermal emittance >= 0.75, 4) Initial year aged solar reflectance index >= 82.0.

Envelope PASSES: Design 32% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Ryan Gerlert — Name - Title
Ryan Gerlert — Signature
6/22/19 — Date

COMcheck Software Version 4.1.1.0
Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	TERMINAL IMPROVEMENTS - CONTRACT 3
Location:	Wilmington, North Carolina
Climate Zone:	3a
Project Type:	Addition
Vertical Glazing / Wall Area:	15%

Construction Site:
1740 Airport Blvd, Suite 12
Wilmington, NC 28405

Owner/Agent:
Wilmington International Airport
1740 Airport Blvd, Suite 12
Wilmington, NC 28405

Designer/Contractor:
The Wilson Group
PO Box 5510
Charlotte, NC 28299

Building Area	Floor Area
1-TICKET & BOARDING LEVEL (Transportation) : Nonresidential	52837

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor$_{alt}$
Floor 1: Concrete Floor (over unconditioned space), [Bldg. Use 1 - TICKET & BOARDING LEVEL]	52837	---	19.0	0.045	0.076
Roof 1: Insulation Entirely Above Deck: High Albedo Roof Required, 3-Year-Aged Solar Reflectance = 0.83, Thermal Emittance = 0.90 (c), [Bldg. Use 1 - TICKET & BOARDING LEVEL]	32665	---	30.0	0.032	0.039
Roof 2: Insulation Entirely Above Deck: High Albedo Roof Required, 3-Year-Aged Solar Reflectance = 0.60, Thermal Emittance = 0.80 (c), [Bldg. Use 1 - TICKET & BOARDING LEVEL]	14451	---	30.0	0.032	0.039
NORTH					
Exterior Wall 1: Steel-Framed, 16" o.c., [Bldg. Use 1 - TICKET & BOARDING LEVEL]	9872	0.0	13.0	0.063	0.064
Window 1: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - TICKET & BOARDING LEVEL] (b)	200	---	---	0.250	0.460
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - TICKET & BOARDING LEVEL]	28	---	---	0.300	0.610
EAST					
Exterior Wall 2: Steel-Framed, 16" o.c., [Bldg. Use 1 - TICKET & BOARDING LEVEL]	7088	0.0	13.0	0.063	0.064
Window 2: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - TICKET & BOARDING LEVEL] (b)	1010	---	---	0.250	0.460
SOUTH					
Exterior Wall 3: Steel-Framed, 16" o.c., [Bldg. Use 1 - TICKET & BOARDING LEVEL]	13986	0.0	13.0	0.063	0.064
Window 3: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - TICKET & BOARDING LEVEL] (b)	3610	---	---	0.250	0.460
Door 5: Insulated Metal, Swinging, [Bldg. Use 1 - TICKET &	84	---	---	0.350	0.610

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor$_{alt}$
BOARDING LEVEL]					
WEST					
Exterior Wall 4: Steel-Framed, 16" o.c., [Bldg. Use 1 - TICKET & BOARDING LEVEL]	7464	0.0	13.0	0.063	0.064
Window 4: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - TICKET & BOARDING LEVEL] (b)	1060	---	---	0.250	0.460
Door 6: Insulated Metal, Swinging, [Bldg. Use 1 - TICKET & BOARDING LEVEL]	28	---	---	0.300	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) High albedo roof requirement options: 1) 3-year aged solar reflectance >= 0.55 thermal emittance >= 0.75, 2) 3-year aged solar reflectance index >= 64.0, 3) Initial year aged solar reflectance >= 0.70 thermal emittance >= 0.75, 4) Initial year aged solar reflectance index >= 82.0.

Envelope PASSES: Design 31% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Ryan Gerlert — Name - Title
Ryan Gerlert — Signature
6/28/19 — Date

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

THE WILSON GROUP ARCHITECTS — REGISTERED ARCHITECTURAL CORPORATION — CERT. NO. 51140 — NORTH CAROLINA — CHARLOTTE, N.C.

RYAN WALKER GERLERT — REGISTERED ARCHITECT — 9272 — NORTH CAROLINA — CHARLOTTE, N.C.

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LS3P

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FP/P/M/E ENGINEER
CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
BNP

AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

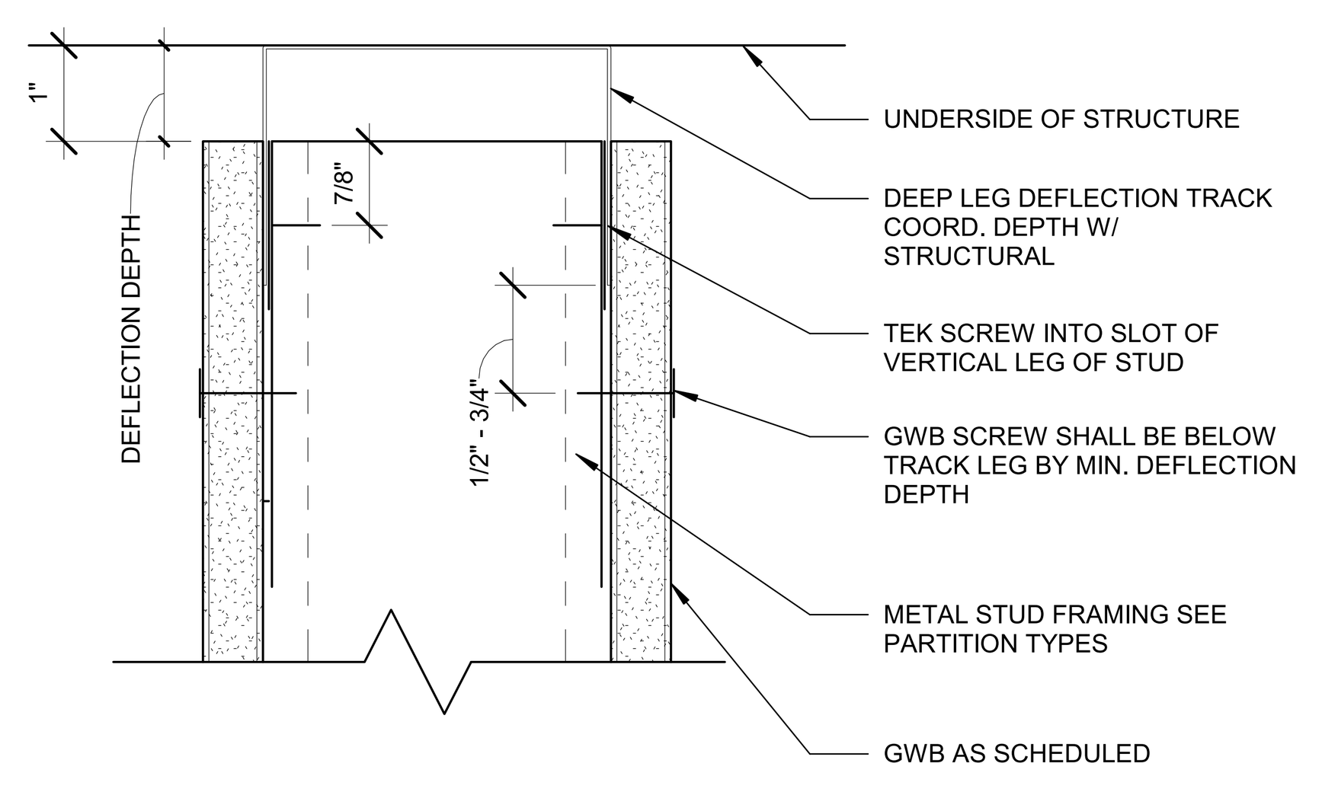
1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

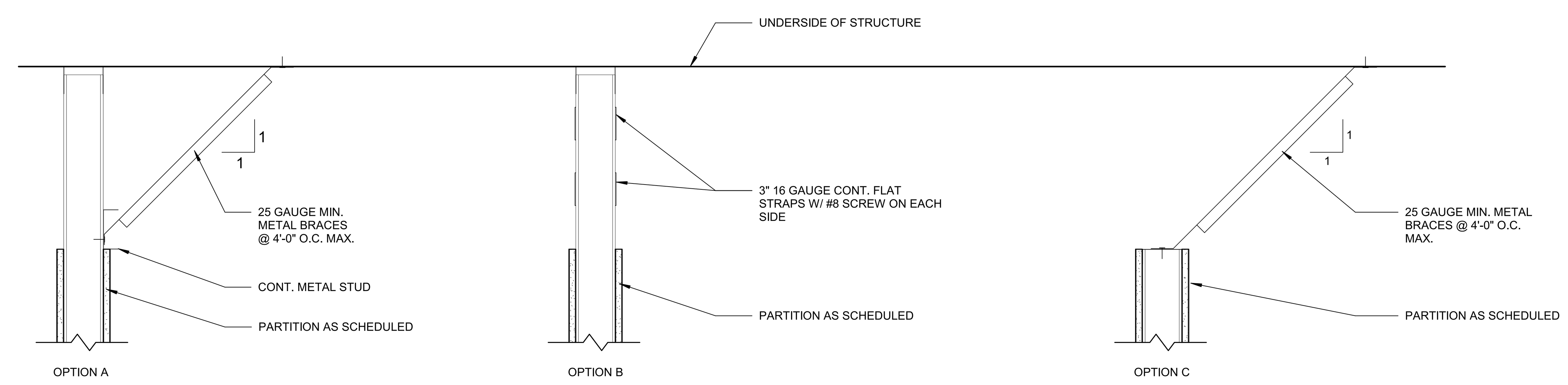
GENERAL NOTES AND COMCHECK

SHEET NUMBER

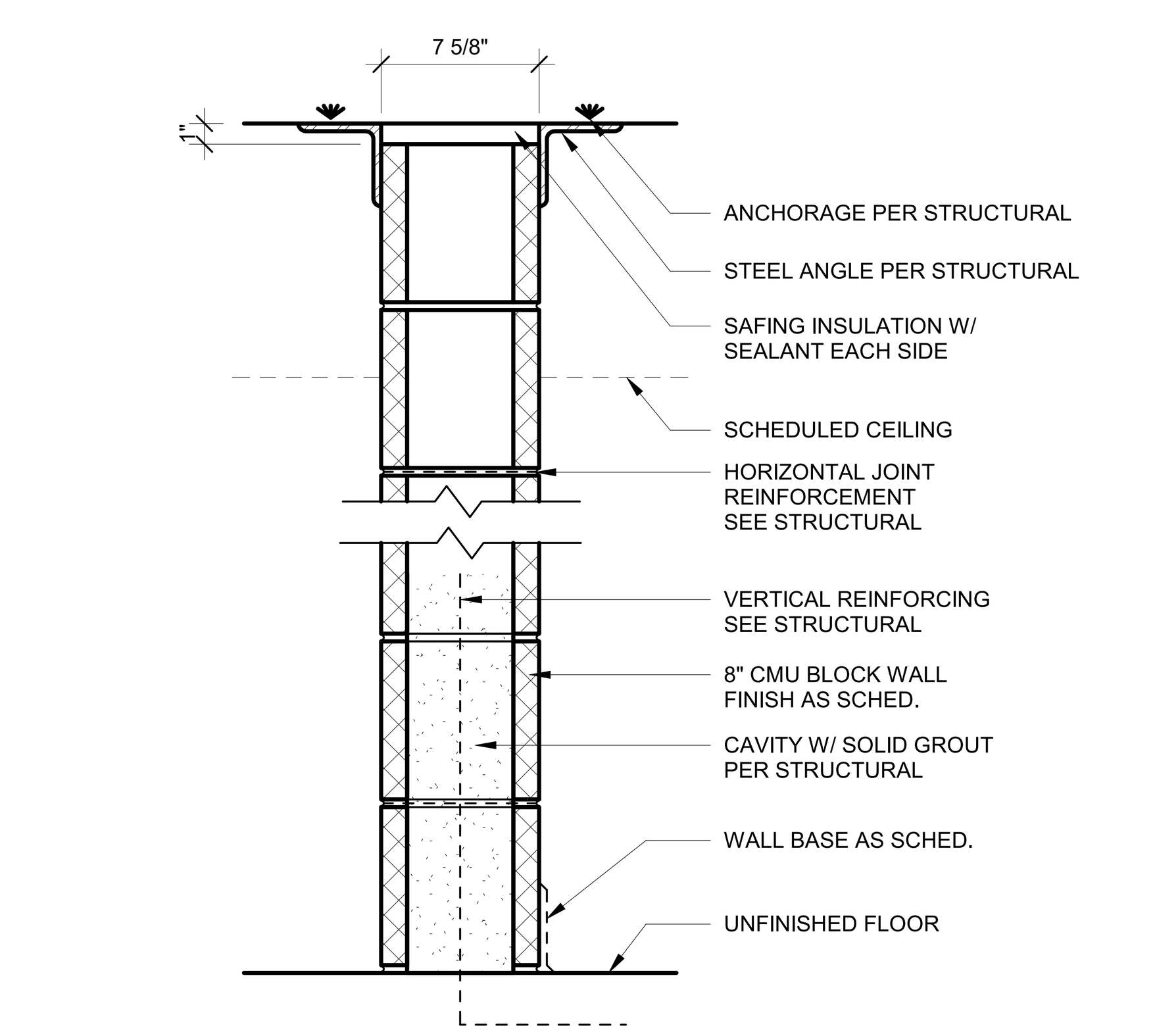
G-004



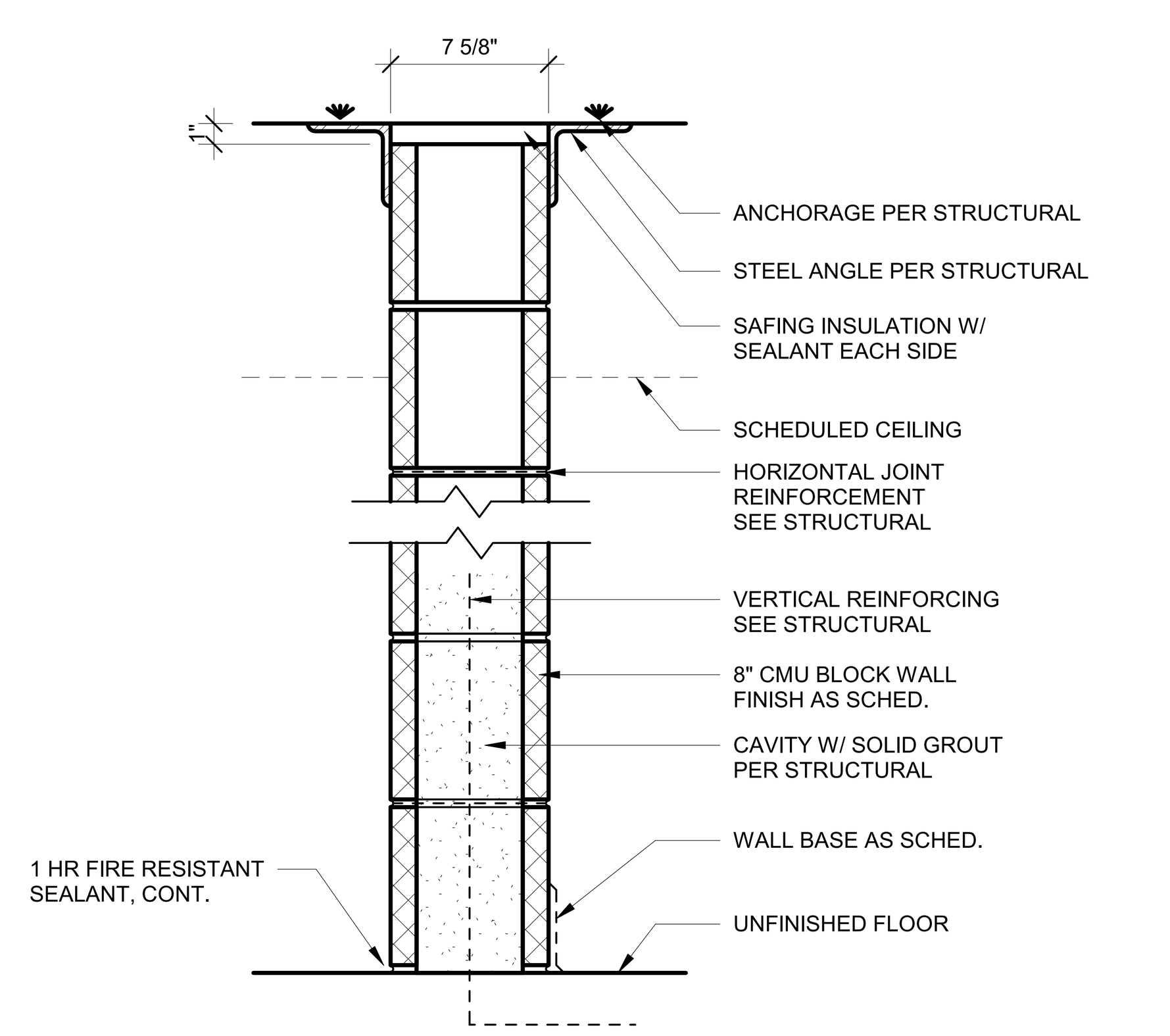
16 DEFLECTION TRACK DETAIL
6" = 1'-0"



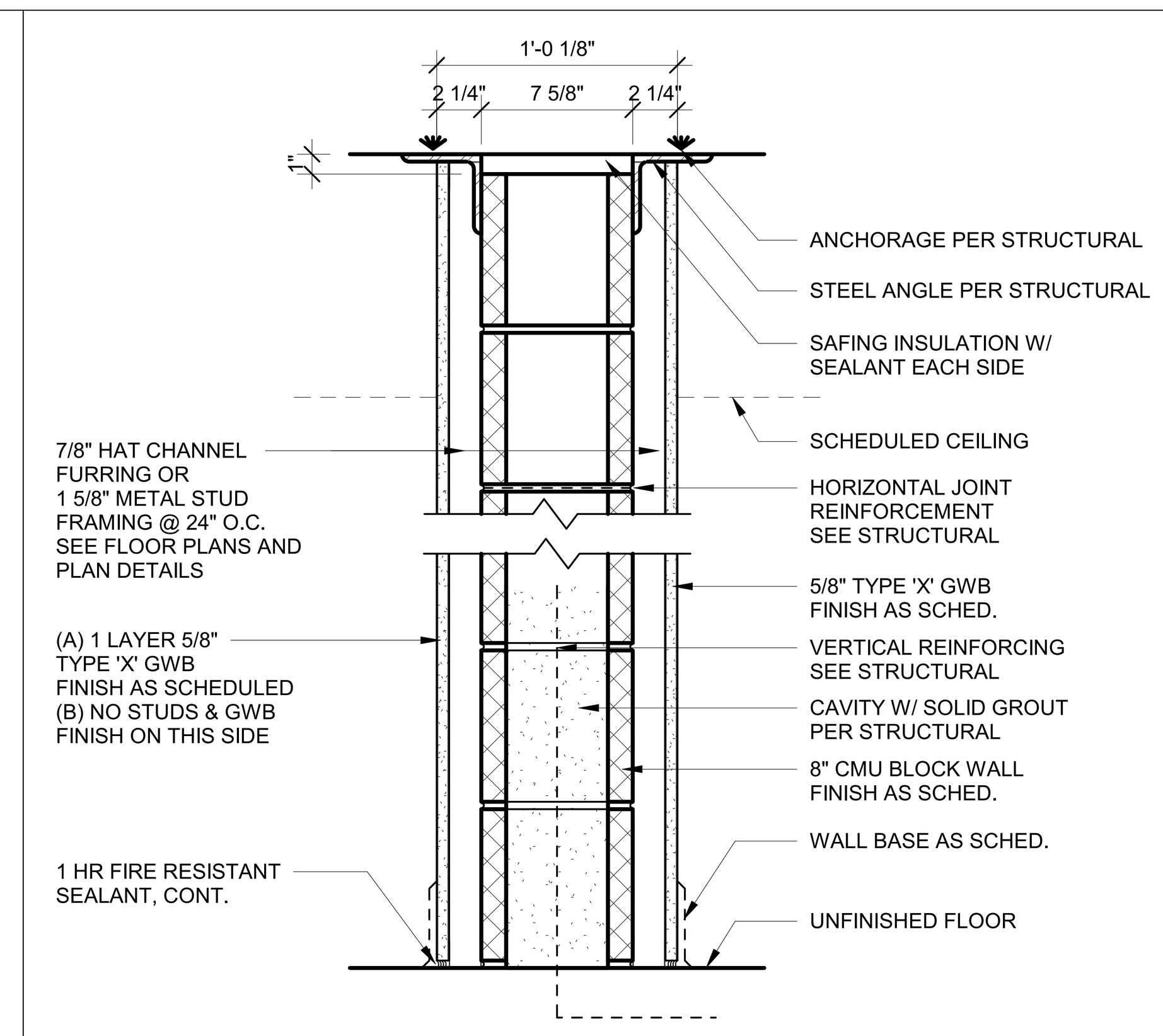
17 STUD TERMINATION ABOVE CEILING DETAIL
1 1/2" = 1'-0"



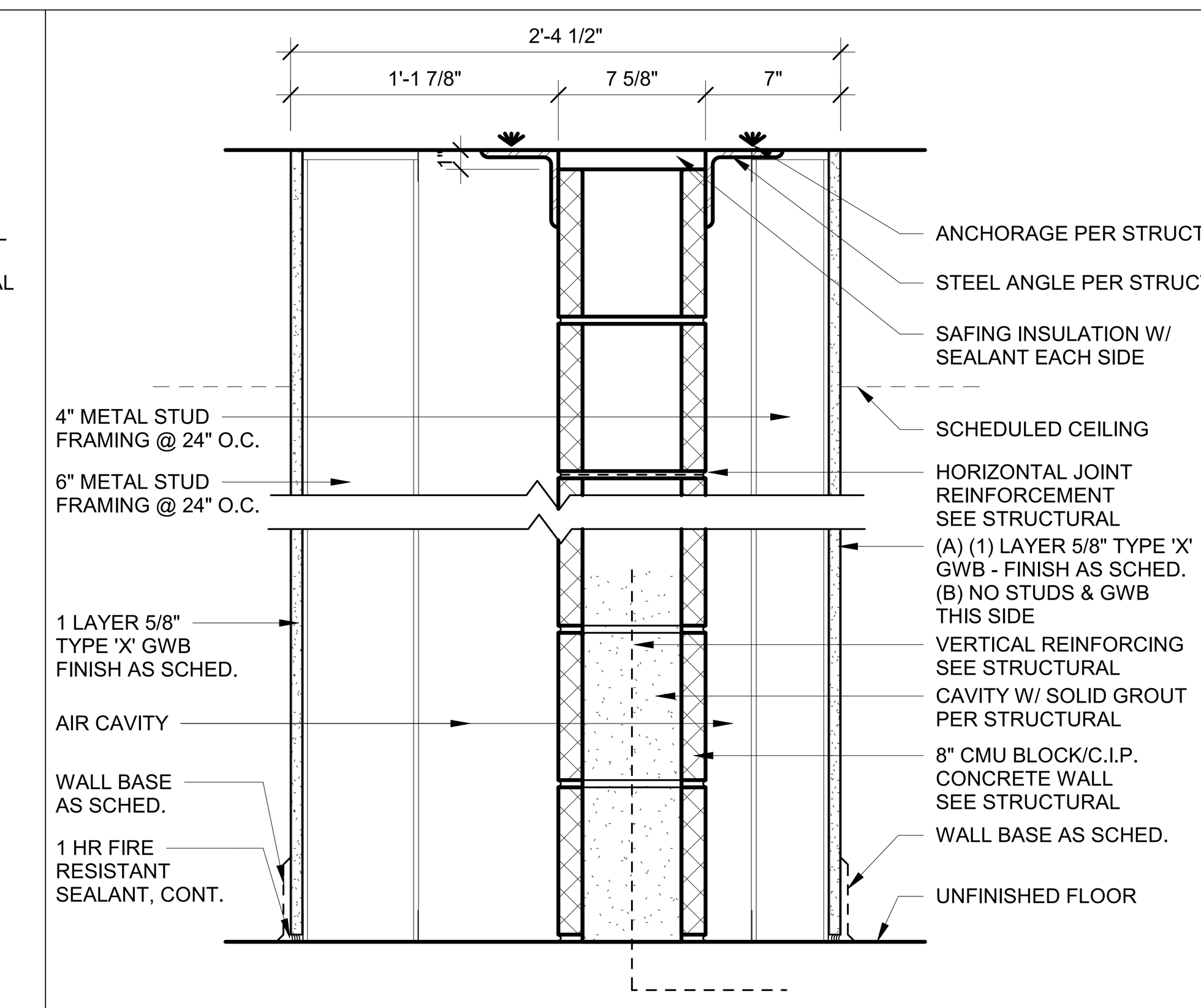
M-01	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	0 HR	N/A	N/A	N/A



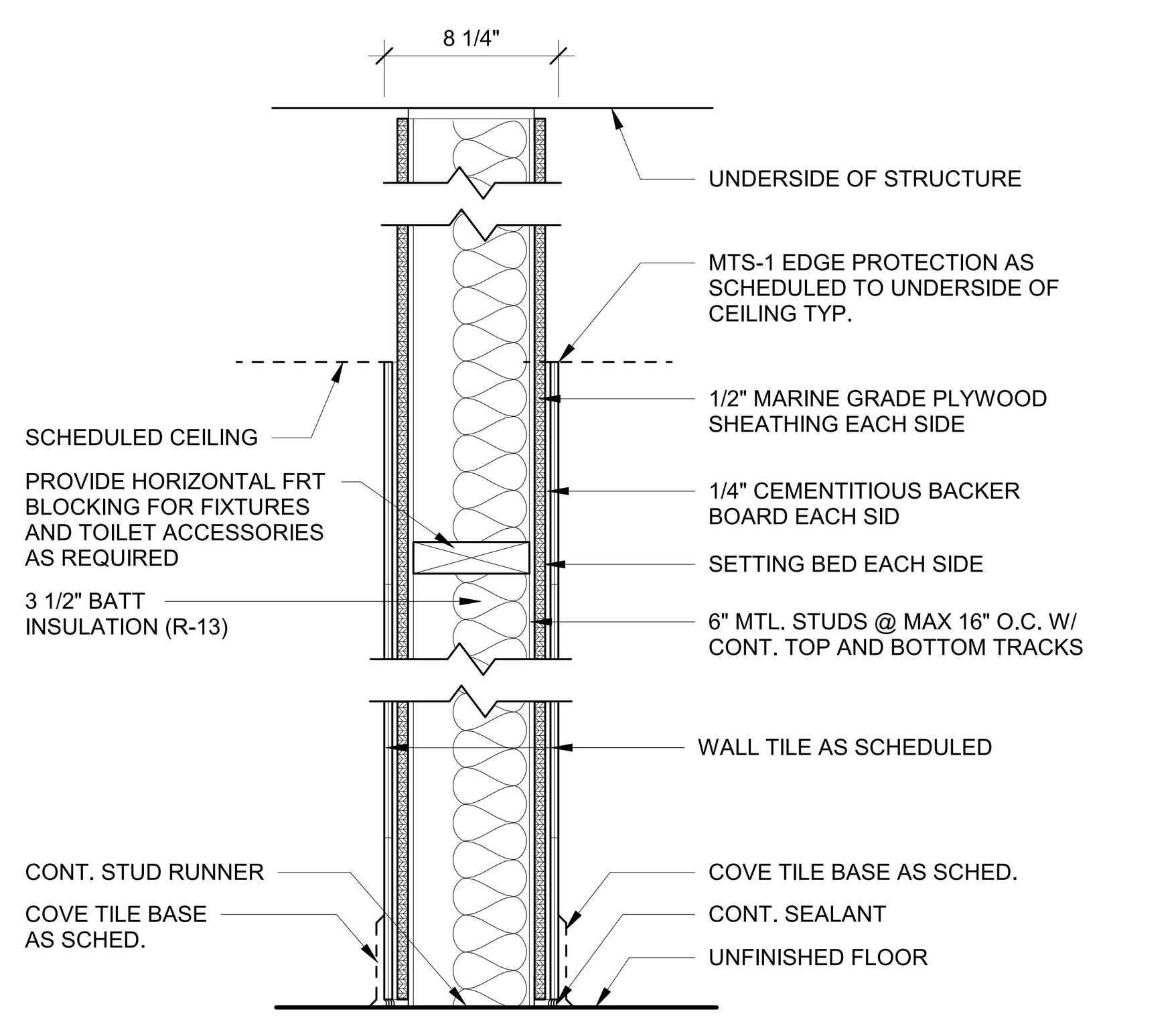
M-02	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	1 HR	U914	N/A	N/A



M-03 A/B	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	1 HR	U914	N/A	N/A

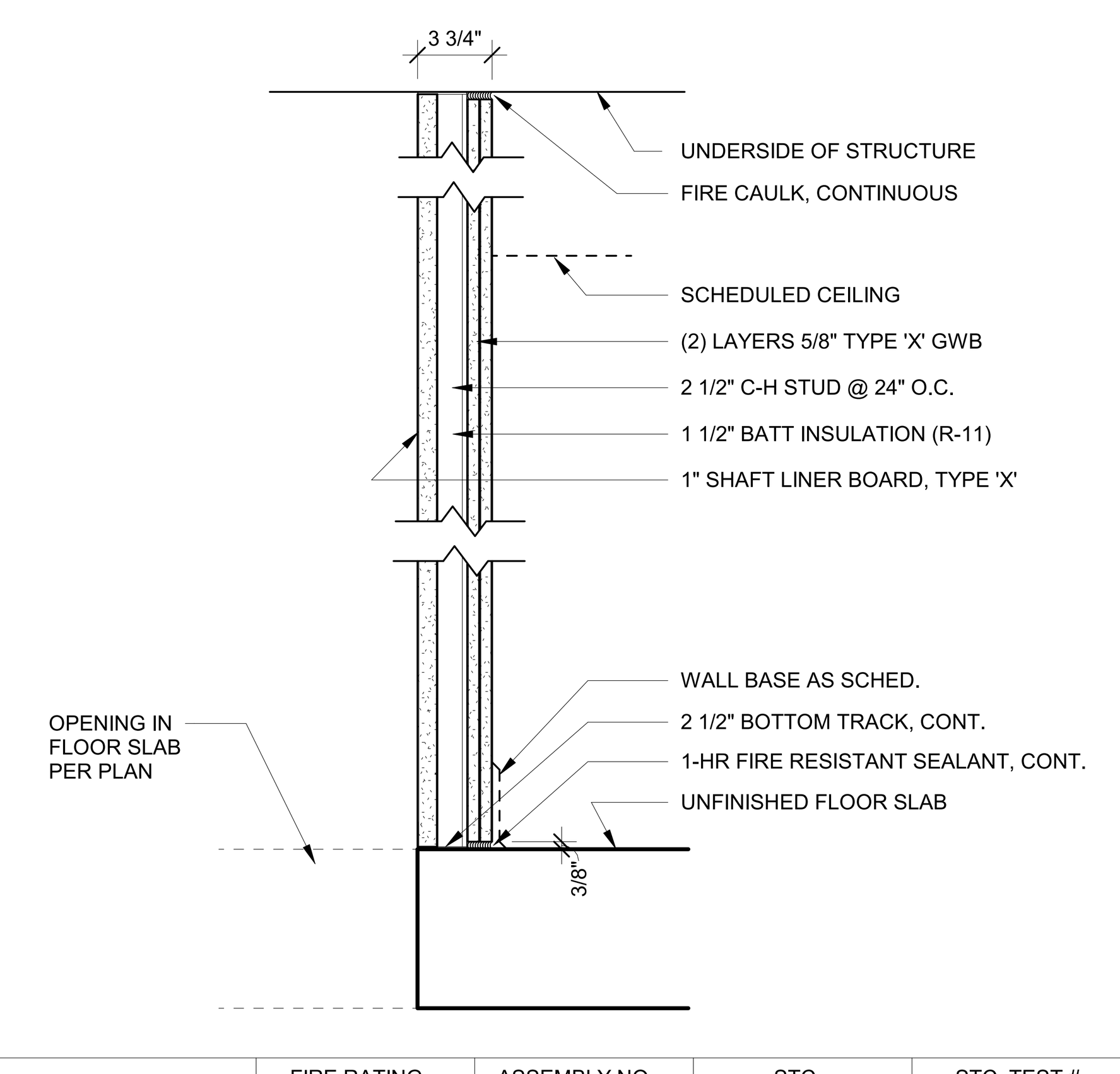


M-04 A/B	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	1 HR	U914	N/A	N/A

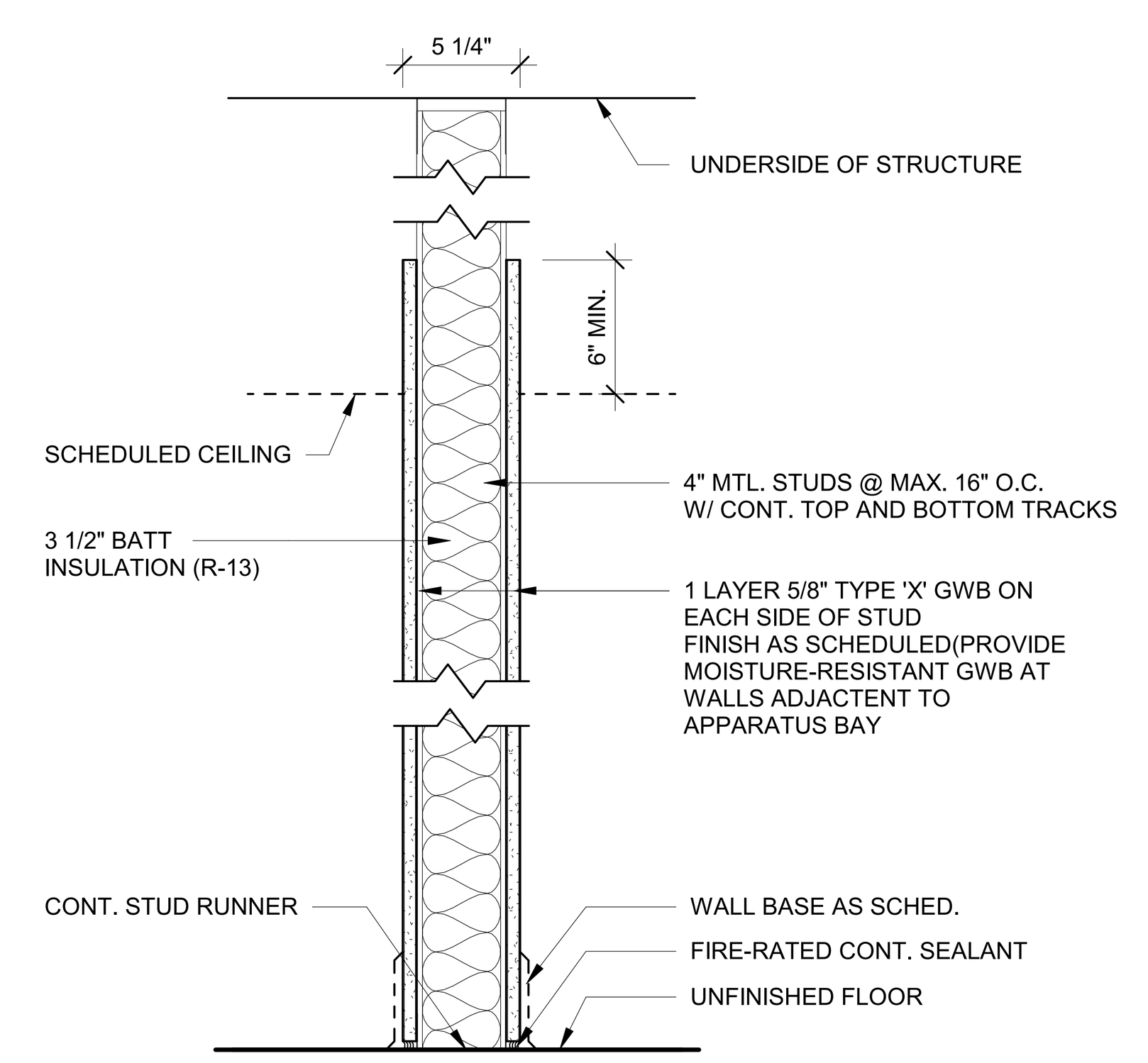


NOTE: WALLS SUPPORTING ADULT CHANGING TABLE SHALL HAVE 1" MARINE GRADE PLYWOOD SHEATHING IN LIEU OF 1/2" FOR ENTIRE LIMITS OF WALL. TYP.

G-06	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	0 HR	N/A	N/A	N/A

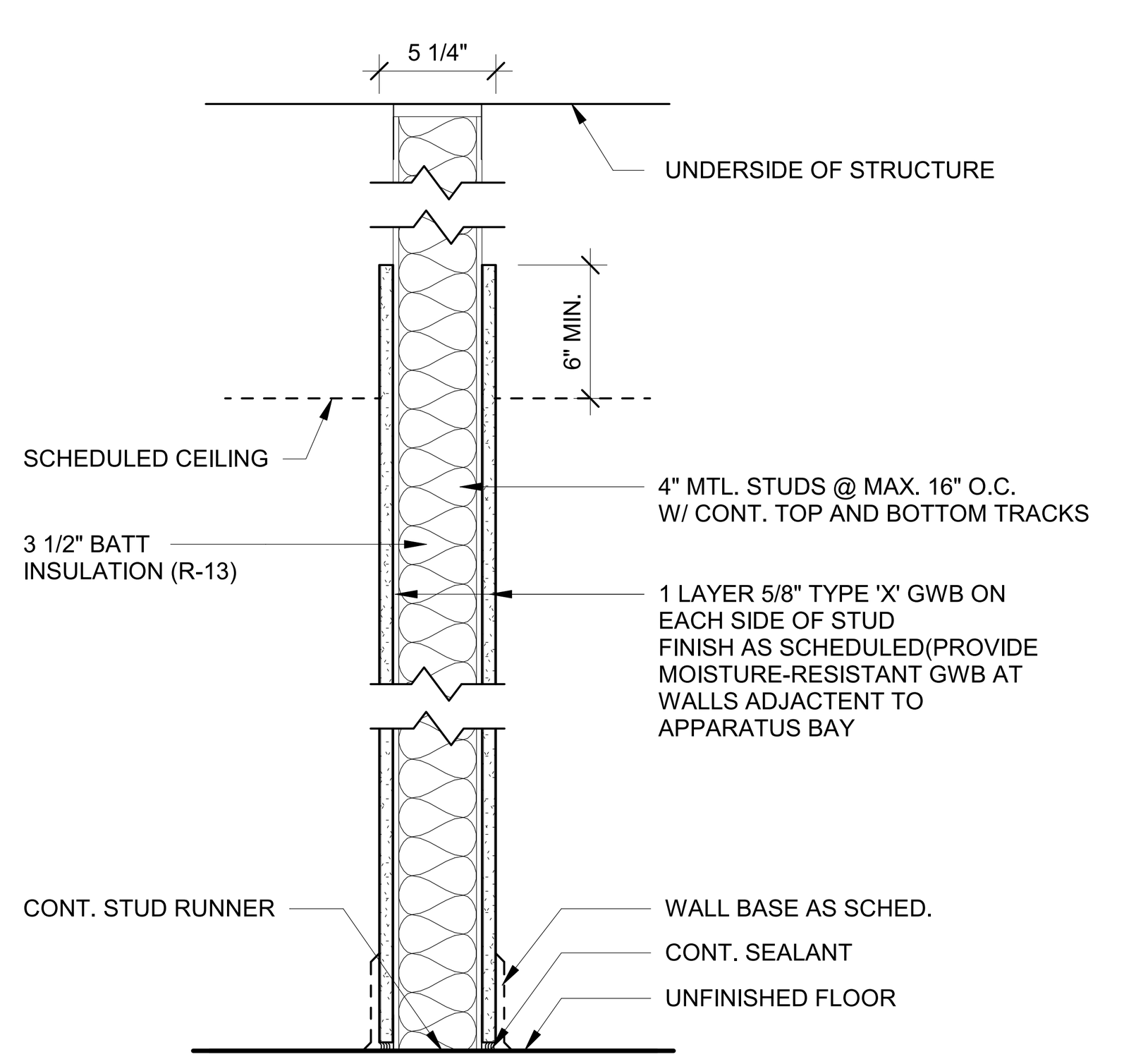


G-07	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	1 HR	U438	N/A	N/A



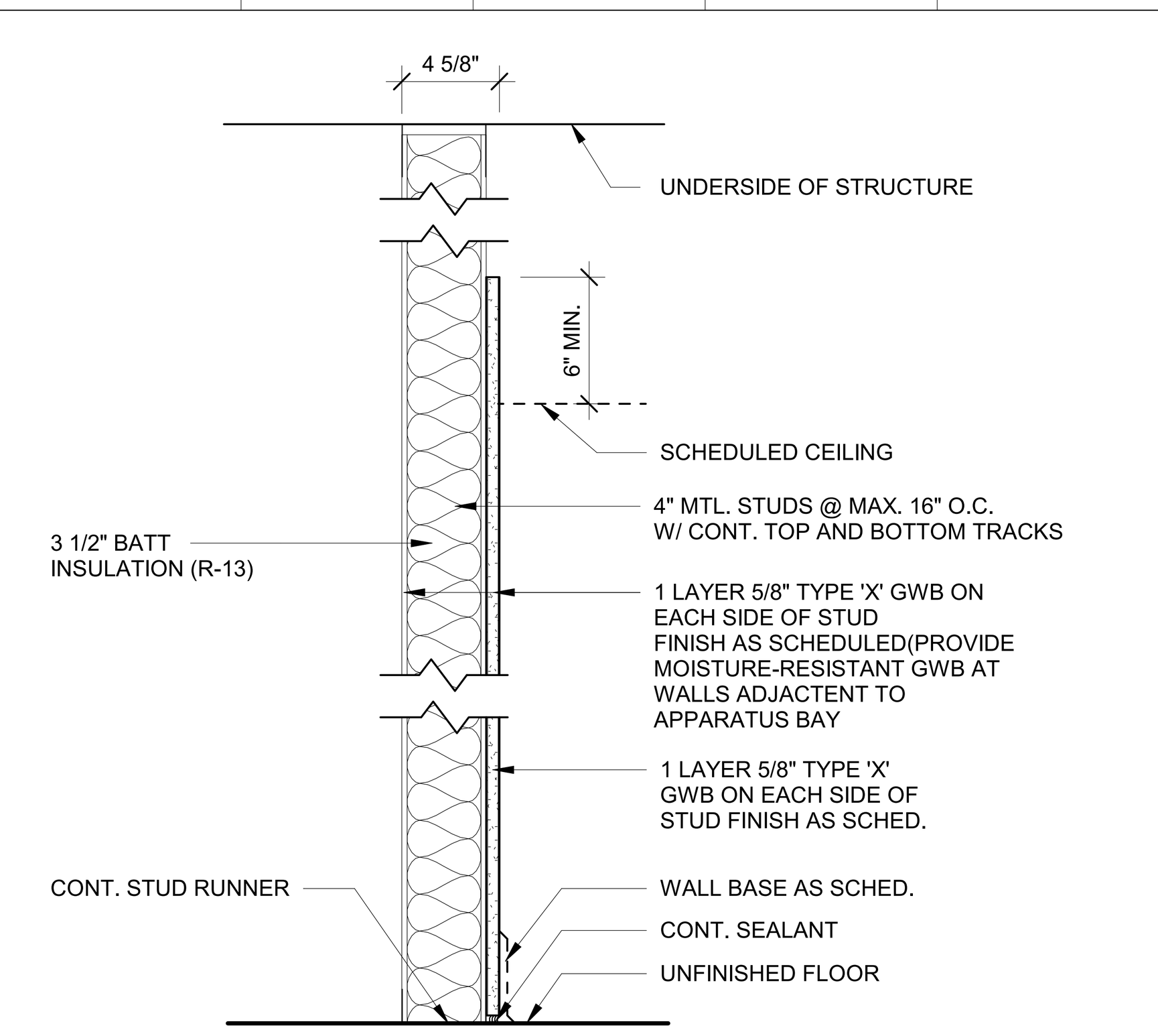
TYPICAL TENANT SEPARATION PARTITION U.N.O.

G-08	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	1 HR	U404	N/A	N/A

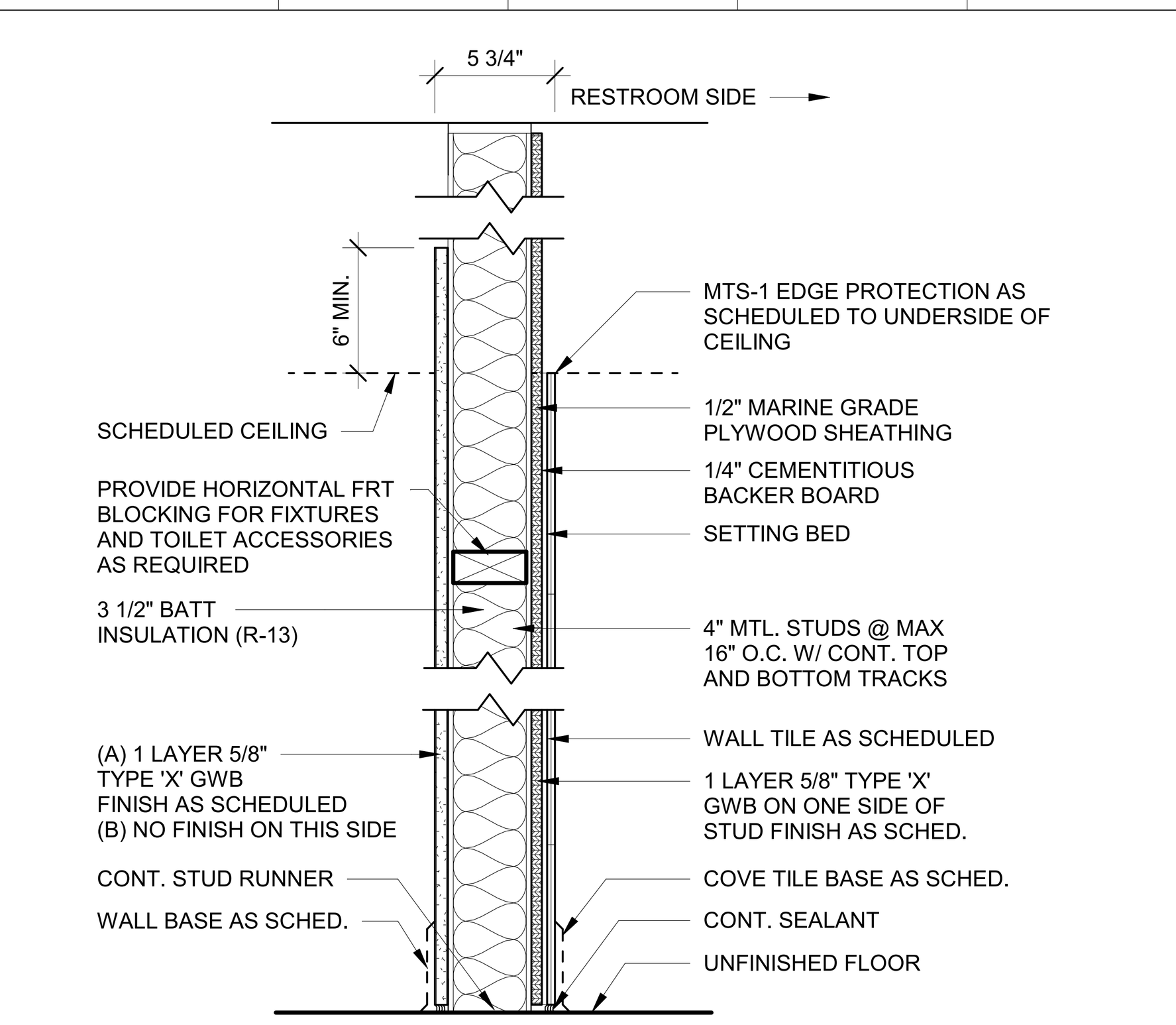


TYPICAL INTERIOR PARTITION U.N.O.

G-01	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	0 HR	N/A	N/A	N/A

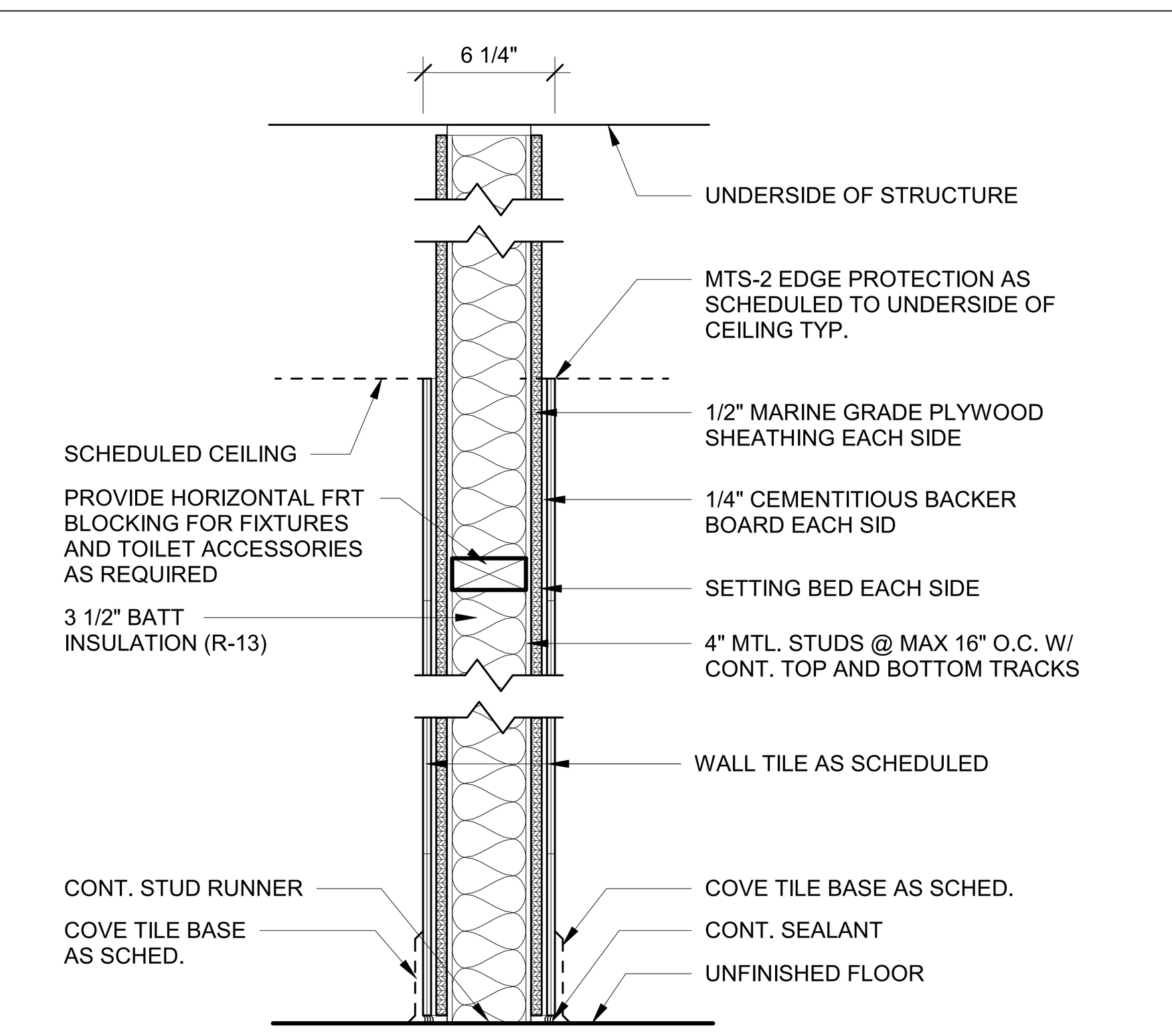


G-02	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	0 HR	N/A	N/A	N/A



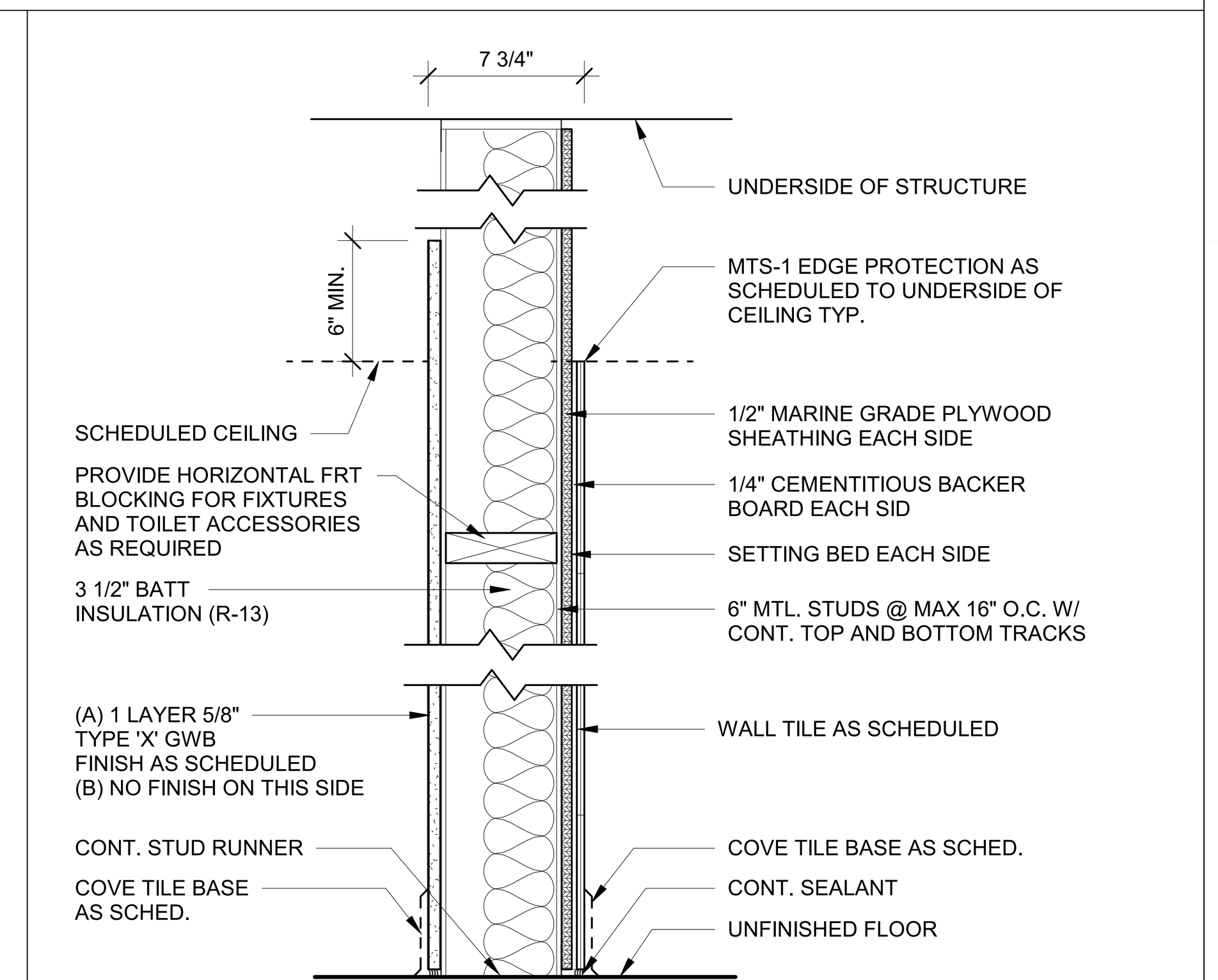
NOTE: WALLS SUPPORTING ADULT CHANGING TABLE SHALL HAVE 1" MARINE GRADE PLYWOOD SHEATHING IN LIEU OF 1/2" FOR ENTIRE LIMITS OF WALL, TYP.

G-03 A/B	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	0 HR	N/A	N/A	N/A



NOTE: WALLS SUPPORTING ADULT CHANGING TABLE SHALL HAVE 1" MARINE GRADE PLYWOOD SHEATHING IN LIEU OF 1/2" FOR ENTIRE LIMITS OF WALL, TYP.

G-04	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	0 HR	N/A	N/A	N/A



NOTE: WALLS SUPPORTING ADULT CHANGING TABLE SHALL HAVE 1" MARINE GRADE PLYWOOD SHEATHING IN LIEU OF 1/2" FOR ENTIRE LIMITS OF WALL, TYP.

G-05 A/B	FIRE RATING	ASSEMBLY NO.	STC	STC. TEST #
	0 HR	N/A	N/A	N/A

PARTITION NOTES

1. UNLESS OTHERWISE NOTED, DIMENSIONS ARE TO COLUMN CENTERLINE, FACE OF GWB/STUD PARTITIONS, FACE OF MASONRY AND CONCRETE WALLS AND FACE OF EXISTING WALLS.
2. AT DEFLECTION TRACKS AND WHERE PARTITION EXTENDS TO STRUCTURE ABOVE, HOLD TOP OF STUDS DOWN 1 1/2" MIN. FROM TOP RUNNER/TRACK. VERIFY DEFLECTION INFORMATION WITH STRUCTURAL DRAWINGS.
3. ALL CAULK AND SEALANT SHALL BE CONTINUOUS.
4. ALL CMU WALLS AND SOUND RATED PARTITIONS SHALL EXTEND FROM FINISHED FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK; AND SHALL BE ENTIRELY SEALED OFF UNLESS NOTED OTHERWISE. ALL PENETRATIONS SUCH AS PIPING, CONDUITS, DUCTS, ETC., IN SUCH SEALED OFF WALLS OR PARTITIONS SHALL IN THEMSELVES BE PACKED AND SEALED OFF ALONG THE PERIMETER OF EACH PENETRATION.
5. ALL FIRE AND/OR SMOKE PARTITIONS SHALL EXTEND FROM FINFISH FLOOR TO WHERE THEY MAY BE SEALED, SUCH AS THE UNDERSIDE OF THE STRUCTURE OR DECK, AND BE ENTIRELY SEALED OFF WITH SAFING MATERIAL ONLY. SAFING MATERIAL SHALL BE HELD IN PLACE WITH A FIRE STOPPING MATERIAL ON BOTH SIDES, SUCH AS GYPSUM WALL BOARD OR ul LISTED FIRE PROOFING MATERIAL AND ASSEMBLY.
6. ALL SOUND RATED (STC) WALLS OR PARTITIONS SHALL HAVE CLOSURE GASKETS AT TOP, BOTTOM, AND SIDES WHERE A SOUND LEAK WOULD OTHERWISE EXIST. ALL PENETRATIONS THROUGH SUCH PARTITIONS SHALL IN THEMSELVES BE GASKET-SEALED ALONG THE PENETRATION PERIMETER.
7. STRUCTURAL STUDS (20 GA. MIN.) SHALL BE USED WHERE ANY NON-SELF-SUPPORTING WALL-HUNG FIXTURES, EQUIPMENT, OR CABINETRY OCCUR AND SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE.
8. ALL 20 GA. METAL STUD FRAMED PARTITIONS SHALL BE BRACED ABOVE FINISHED CEILINGS. ALL KICKER LOCATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES PERFORMING WORK ABOVE CEILING.
9. DO NOT FASTEN TOP RUNNER TO STUDS; CRIMP RUNNER ON BOTH SIDES OF STUD TO STABILIZE STUD.
10. ALL RATED PARTITIONS SHALL BE IDENTIFIED ABOVE HUNG CEILINGS WITH CODE COMPLIANT SIGNAGE.
11. SEE ROOM FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR FINISH MATERIALS SUCH AS PORCELAIN TILE, SPECIALTY WALL PANELS, ETC. NOT SHOWN OR INCLUDED IN THESE PARTITION TYPES.
12. WHERE PARTITION TYPES CHANGE IN A STRAIGHT RUN, THE EXPOSED OR MORE IMPORTANT EXPOSED FINISHED FACE, AND NOT NECESSARILY THE CENTERLINE OF STUDS, SHALL ALIGN. REVIEW CASES WHICH ARE UNCLEAR WITH THE ARCHITECT PRIOR TO CONSTRUCTING PARTITIONS.
13. WHERE ITEMS ARE RECESSED INTO RATED PARTITIONS, PROVIDE BOXING, INSULATION, ETC. AS REQUIRED TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING.
14. PURSUANT TO NCSBC 603, ALL WOOD PRODUCTS SHALL BE FIRE-RETARDANT TREATED (FRT).

LIGHT GAUGE/STRUCTURAL STUD FRAMING NOTES

1. SIGN AND SEAL SHOP DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE PROJECT IS LOCATED. CONTRACTOR'S PROFESSIONAL ENGINEER IS RESPONSIBLE AND IN CHARGE OF THE DESIGN, DETAILING, PROPER IMPLEMENTATION, AND COORDINATION OF SHOP DRAWINGS. DESIGN TEAM'S STRUCTURAL ENGINEER WILL BEGIN REVIEW OF SUBMITTALS ONLY AFTER CONTRACTOR'S COMPLIANCE WITH THIS DELEGATED DESIGN REQUIREMENT.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEMBERS, BRACING, BRIDGING, STRAPPING, CONNECTION DESIGN(S), DETAILING, SPACING OF COMPONENTS, DIMENSIONING, COORDINATION WITH OTHER RELATED WORK AND ADJACENT CONSTRUCTION, ERECTION OF ALL LIGHT GAUGE COMPONENTS / STRUCTURAL STUDS.
3. COMPLY WITH MOST RECENT VERSION (UNLESS SPECIFICALLY STATE OTHERWISE) OF ALL APPLICABLE PROVISIONS OF STATE AND LOCAL BUILDING AND SAFETY CODES REFERENCED THEREIN, OTHER FEDERAL (OSHA) SAFETY REQUIREMENTS, AND OTHER CODES AND STANDARDS REFERENCED THEREIN.
4. COMPUTE STRUCTURAL PROPERTIES OF STUDS AND JOISTS IN ACCORDANCE WITH AISI "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
5. WHERE FRAMING UNITS ARE COMPONENTS OF ASSEMBLIES INDICATED FOR A FIRE-RESISTANCE RATING, INCLUDING THOSE REQUIRED FOR COMPLIANCE WITH GOVERNING REGULATIONS, PROVIDE UNITS WHICH HAVE BEEN APPROVED BY GOVERNING AUTHORITIES HAVING JURISDICTION.
6. CONTRACT DOCUMENTS SHOW ONLY BASIC LOCATIONS, CONFIGURATIONS, SIZES, AND CONNECTIONS REQUIRED. DETAILING AND SPACING OF COMPONENTS IS THE RESPONSIBILITY OF THE CONTRACTOR.

1

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

THE WILSON GROUP ARCHITECTS REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 51140 NORTH CAROLINA CHARLOTTE, N.C.

TRAVIS WALKER PEARCE REGISTERED ARCHITECT 9272 NORTH CAROLINA CHARLOTTE, N.C.
[illegible]

THE WILSON GROUP
- ARCHITECTS -

PO Box 5510 Charlotte, NC 28299
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AIRCRAFT SUPPORT SYSTEMS
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SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

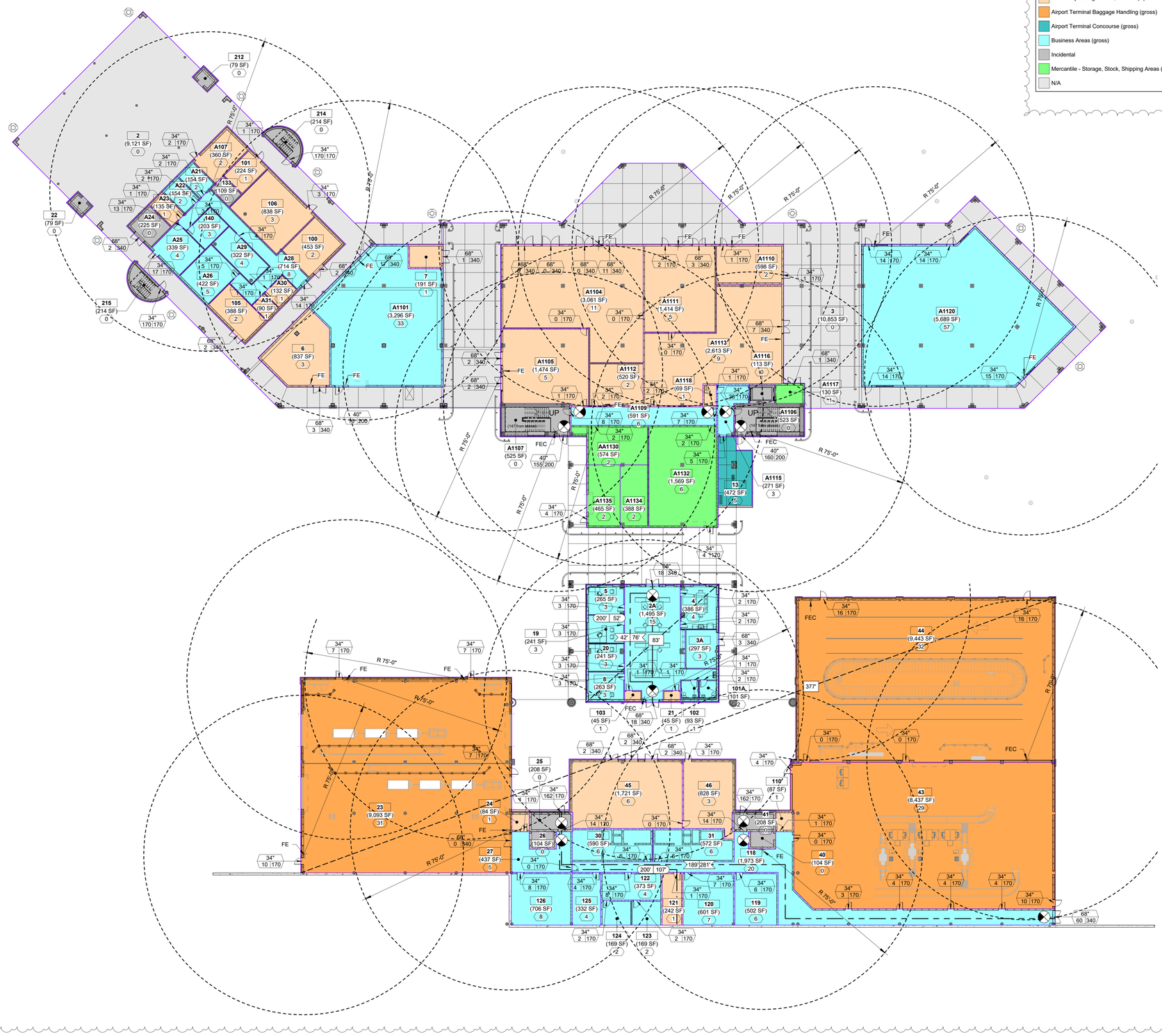
REVISIONS

1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTITION TYPES

SHEET NUMBER
G-005



Occupancy Area Legend

- Accessory Storage Areas, Mech Equip Room (gross)
- Airport Terminal Baggage Handling (gross)
- Airport Terminal Concourse (gross)
- Business Areas (gross)
- Incidental
- Mercantile - Storage, Stock, Shipping Areas (gross)
- N/A

Life Safety Area Schedule - Ramp Level

Number	Name	Area OCC Type	Area	Area Per Occupant	Calculated Occupant Load
RAMP LEVEL					
2	OPEN AREA - ZONE 1	N/A	9,121 SF	0 SF	0
2A	WORK STATIONS	Business Areas (gross)	1,495 SF	100 SF	15
3	OPEN AREA - ZONE 2	N/A	10,853 SF	0 SF	0
3A	OFFICE	Business Areas (gross)	297 SF	100 SF	3
4	OFFICE	Business Areas (gross)	386 SF	100 SF	4
5	OFFICE	Business Areas (gross)	265 SF	100 SF	3
6	Area	Accessory Storage Areas, Mech Equip Room (gross)	837 SF	300 SF	3
7	Area	Accessory Storage Areas, Mech Equip Room (gross)	191 SF	300 SF	1
8	Area	Business Areas (gross)	263 SF	100 SF	3
13	Area	Airport Terminal Concourse (gross)	472 SF	100 SF	5
19	OFFICE	Business Areas (gross)	241 SF	100 SF	3
20	ROOM	Business Areas (gross)	241 SF	100 SF	3
21	STORAGE	Accessory Storage Areas, Mech Equip Room (gross)	45 SF	300 SF	1
22	ELEV 5	Incidental	79 SF	0 SF	0
23	BAG HANDLING	Airport Terminal Baggage Handling (gross)	9,093 SF	300 SF	31
24	EMR	Accessory Storage Areas, Mech Equip Room (gross)	84 SF	300 SF	1
25	STAIR #2	Incidental	208 SF	0 SF	0
26	ELEVATOR #2	Incidental	104 SF	0 SF	0
27	CORRIDOR	Business Areas (gross)	437 SF	100 SF	5
30	MEN'S LOCKER	Business Areas (gross)	590 SF	100 SF	6
31	WOMEN'S LOCKER	Business Areas (gross)	572 SF	100 SF	6
40	ELEVATOR #1	Incidental	104 SF	0 SF	0
41	STAIR #1	Incidental	208 SF	0 SF	0
43	BAG HANDLING	Airport Terminal Baggage Handling (gross)	8,437 SF	300 SF	29
44	BAG HANDLING	Airport Terminal Baggage Handling (gross)	9,443 SF	300 SF	32
45	MECHANICAL	Accessory Storage Areas, Mech Equip Room (gross)	1,721 SF	300 SF	6
46	ELECTRICAL	Accessory Storage Areas, Mech Equip Room (gross)	828 SF	300 SF	3
100	MECHANICAL	Accessory Storage Areas, Mech Equip Room (gross)	453 SF	300 SF	2
101	ELECTRICAL	Accessory Storage Areas, Mech Equip Room (gross)	224 SF	300 SF	1
101A	WOMEN	Business Areas (gross)	101 SF	100 SF	2
102	MEN	Business Areas (gross)	93 SF	100 SF	1
103	SUPPLY	Accessory Storage Areas, Mech Equip Room (gross)	45 SF	300 SF	1
105	STORAGE	Accessory Storage Areas, Mech Equip Room (gross)	388 SF	300 SF	2
106	STORAGE	Accessory Storage Areas, Mech Equip Room (gross)	838 SF	300 SF	3
110	EMR	Accessory Storage Areas, Mech Equip Room (gross)	87 SF	300 SF	1
118	CORRIDOR	Business Areas (gross)	1,973 SF	100 SF	20
119	BUILDING MANAGEMENT	Business Areas (gross)	502 SF	100 SF	6
120	ROOM	Business Areas (gross)	601 SF	100 SF	7
121	STORAGE	Accessory Storage Areas, Mech Equip Room (gross)	242 SF	300 SF	1
122	ROOM	Business Areas (gross)	373 SF	100 SF	4
123	ROOM	Business Areas (gross)	169 SF	100 SF	2
124	ROOM	Business Areas (gross)	169 SF	100 SF	2
125	ROOM	Business Areas (gross)	332 SF	100 SF	4
126	Area	Business Areas (gross)	706 SF	100 SF	8
133	OWS	Incidental	109 SF	0 SF	0
140	ROOM	Business Areas (gross)	203 SF	100 SF	3
212	ELEV 4	Incidental	79 SF	0 SF	0
214	Area	Incidental	214 SF	0 SF	0
215	Area	Incidental	214 SF	0 SF	0
A21	WOMEN	Business Areas (gross)	154 SF	100 SF	2
A22	MEN	Business Areas (gross)	154 SF	100 SF	2
A23	STORAGE	Accessory Storage Areas, Mech Equip Room (gross)	135 SF	300 SF	1
A24	EMR	Incidental	225 SF	0 SF	0
A25	BREAK	Business Areas (gross)	339 SF	100 SF	4
A26	OFFICE	Business Areas (gross)	422 SF	100 SF	5
A28	CORRIDOR	Business Areas (gross)	714 SF	100 SF	8
A29	OFFICE	Business Areas (gross)	322 SF	100 SF	4
A30	OFFICE	Accessory Storage Areas, Mech Equip Room (gross)	132 SF	300 SF	1
A31	ELECTRICAL	Accessory Storage Areas, Mech Equip Room (gross)	90 SF	300 SF	1
A107	MECHANICAL	Accessory Storage Areas, Mech Equip Room (gross)	360 SF	300 SF	2
A1101	MECHANICAL	Business Areas (gross)	3,296 SF	100 SF	33
A1104	MECHANICAL	Accessory Storage Areas, Mech Equip Room (gross)	3,061 SF	300 SF	11
A1105	MECHANICAL	Accessory Storage Areas, Mech Equip Room (gross)	1,474 SF	300 SF	5
A1106	STAIR 6	Incidental	523 SF	0 SF	0
A1107	STAIR 7	Incidental	525 SF	0 SF	0
A1109	CORRIDOR	Business Areas (gross)	591 SF	100 SF	6
A1110	ELECTRICAL	Accessory Storage Areas, Mech Equip Room (gross)	598 SF	300 SF	2
A1111	MECHANICAL	Accessory Storage Areas, Mech Equip Room (gross)	1,414 SF	300 SF	5
A1112	IT	Accessory Storage Areas, Mech Equip Room (gross)	520 SF	300 SF	2
A1113	MECHANICAL	Accessory Storage Areas, Mech Equip Room (gross)	2,613 SF	300 SF	9
A1115	PET ENTRY	Business Areas (gross)	271 SF	100 SF	3
A1116	ELEV 6	Incidental	113 SF	0 SF	0
A1117	CONCESSIONS ENTRY	Mercantile - Storage, Stock, Shipping Areas (gross)	130 SF	300 SF	1
A1118	EMR	Accessory Storage Areas, Mech Equip Room (gross)	69 SF	300 SF	1
A1120	AIRLINE	Business Areas (gross)	5,689 SF	100 SF	57
A1132	RETAIL STORAGE	Mercantile - Storage, Stock, Shipping Areas (gross)	1,569 SF	300 SF	6
A1134	AIRLINE	Mercantile - Storage, Stock, Shipping Areas (gross)	388 SF	300 SF	2
A1135	AIRLINE	Mercantile - Storage, Stock, Shipping Areas (gross)	465 SF	300 SF	2
AA1130	RETAIL	Mercantile - Storage, Stock, Shipping Areas (gross)	574 SF	300 SF	2
		TOTALS:	91,659 SF		410

TRUE NORTH

LIFE SAFETY PLAN LEGEND

ROOM TAG	ROOM NAME → Room name; ROOM NUMBER → 101; ROOM AREA → (99,999 SF); NUMBER OF OCCUPANTS → 999
EXIT WIDTH	ACTUAL CLEAR INCHES → 34" 888.888; MAX OCCUPANTS; ACTUAL OCCUPANTS
MAXIMUM AREA DIAGONAL	X'
DISTANCE BETWEEN EXITS	REQUIRED X' X' ACTUAL
EXIT ACCESS TRAVEL DISTANCE	ALLOWABLE X' X' ACTUAL
EXIT SIGN	COORDINATE LOCATIONS AND REQUIREMENTS W/ ELECTRICAL DRAWINGS
FEC	4A:80B:C FIRE EXTINGUISHER IN FIRE EXTINGUISHER CABINET
FE	4A:80B:C WALL-MOUNTED FIRE EXTINGUISHER

1 RAMP LEVEL LIFE SAFETY PLAN
1" = 20'-0"

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

THE WILSON GROUP ARCHITECTS REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 51140 NORTH CAROLINA CHARLOTTE, N.C.

JAMES WALKER PAYNE 9272 REGISTERED ARCHITECT NORTH CAROLINA CHARLOTTE, N.C.

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SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

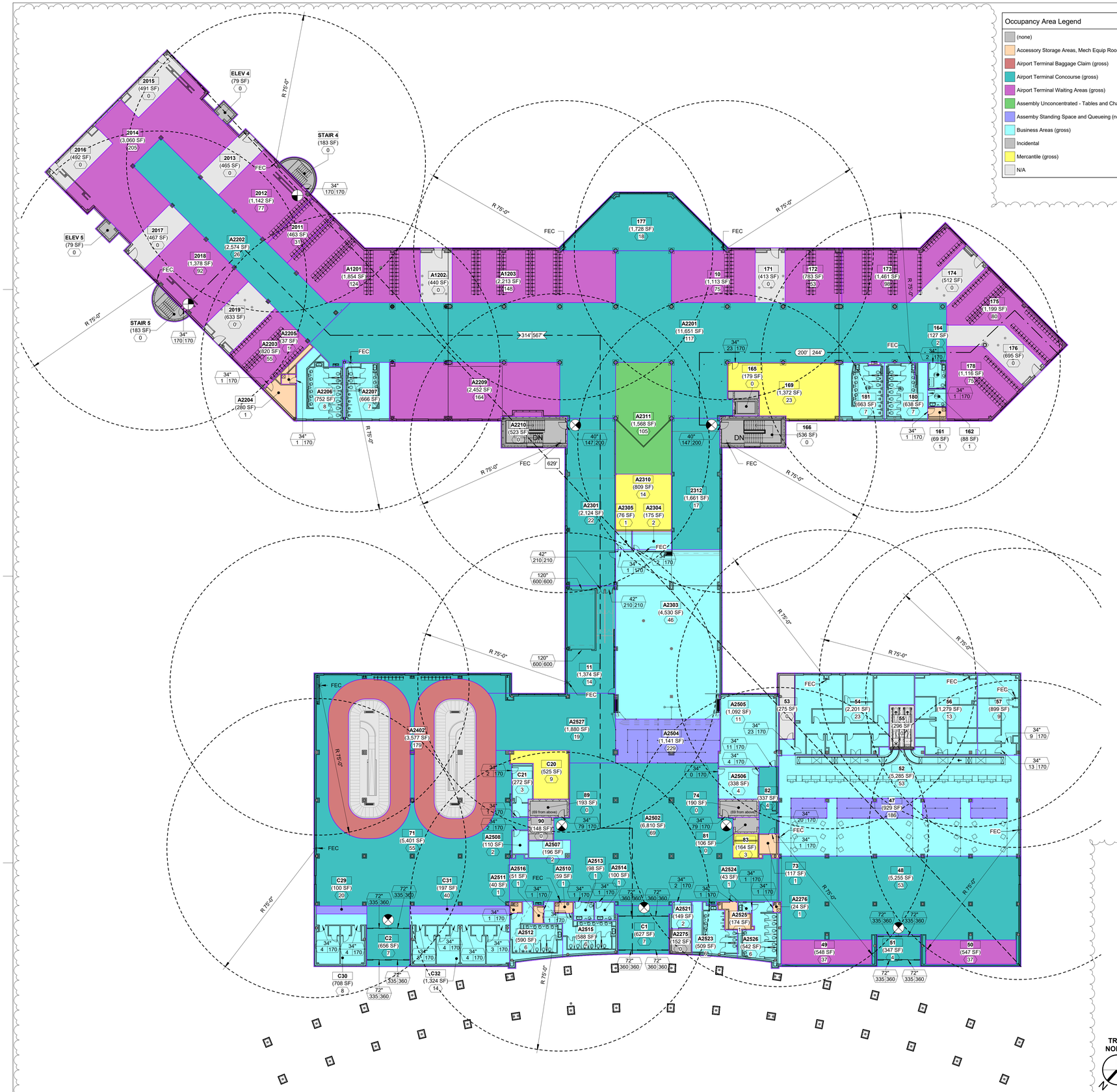
1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

LIFE SAFETY - RAMP LEVEL

SHEET NUMBER

LS-001



Occupancy Area Legend

- (none)
- Accessory Storage Areas, Mech Equip Room (gross)
- Airport Terminal Baggage Claim (gross)
- Airport Terminal Concourse (gross)
- Airport Terminal Waiting Areas (gross)
- Assembly Unconcentrated - Tables and Chairs (net)
- Assemby Standing Space and Queueing (net)
- Business Areas (gross)
- Incidental
- Mercantile (gross)
- N/A

Life Safety Area Schedule - Ticket / Boarding Level

Number	Name	Area OCC Type	Area	Area Per Occupant	Calculated Occupant Load
TICKET LEVEL					
10	Area	Airport Terminal Waiting Areas (gross)	1,113 SF	15 SF	75
11	Area	Airport Terminal Concourse (gross)	1,374 SF	100 SF	14
47	TICKET QUEUEING	Assemby Standing Space and Queueing (net)	929 SF	5 SF	186
48	CIRCULATION	Airport Terminal Concourse (gross)	5,255 SF	100 SF	53
49	PASSENGER WAITING	Airport Terminal Waiting Areas (gross)	548 SF	15 SF	37
50	PASSENGER WAITING	Airport Terminal Waiting Areas (gross)	547 SF	15 SF	37
51	VESTIBULE	Airport Terminal Concourse (gross)	347 SF	100 SF	4
52	TICKET COUNTERS	Business Areas (gross)	5,285 SF	100 SF	53
53	BAG HANDLING	N/A	275 SF	0 SF	0
54	AIRLINE OFFICES	Business Areas (gross)	2,201 SF	100 SF	23
55	BAG HANDLING	N/A	296 SF	0 SF	0
56	AIRLINE OFFICES	Business Areas (gross)	1,279 SF	100 SF	13
57	AIRLINE OFFICES	Business Areas (gross)	899 SF	100 SF	9
71	CIRCULATION	Airport Terminal Concourse (gross)	5,401 SF	100 SF	55
73	ELECTRICAL	Accessory Storage Areas, Mech Equip Room (gross)	117 SF	300 SF	1
74	STAIR #1	Incidental	190 SF	0 SF	0
81	ELEVATOR #1	Incidental	106 SF	0 SF	0
82	CORRIDOR	Airport Terminal Concourse (gross)	337 SF	100 SF	4
83	CONCESSIONS	Mercantile (gross)	164 SF	60 SF	3
89	STAIR #2	Incidental	193 SF	0 SF	0
90	ELEVATOR #2	Incidental	148 SF	0 SF	0
161	JANITOR	Accessory Storage Areas, Mech Equip Room (gross)	69 SF	300 SF	1
162	MOTHER'S ROOM	Business Areas (gross)	88 SF	100 SF	1
164	FAMILY TOILET	Business Areas (gross)	127 SF	100 SF	2
165	ELEVATOR	Incidental	179 SF	0 SF	0
166	STAIR	Incidental	536 SF	0 SF	0
169	TENANT	Mercantile (gross)	1,372 SF	60 SF	23
171	QUEUEING	N/A	413 SF	0 SF	0
172	HOLDROOM	Airport Terminal Waiting Areas (gross)	783 SF	15 SF	53
173	HOLDROOM	Airport Terminal Waiting Areas (gross)	1,461 SF	15 SF	98
174	QUEUEING	N/A	512 SF	0 SF	0
175	HOLDROOM	Airport Terminal Waiting Areas (gross)	1,199 SF	15 SF	80
176	QUEUEING	N/A	695 SF	0 SF	0
177	OBSERVATION	Airport Terminal Concourse (gross)	1,728 SF	100 SF	18
178	HOLDROOM	Airport Terminal Waiting Areas (gross)	1,116 SF	15 SF	75
179	BAG CLAIM DEVICE 1	N/A	1,198 SF	0 SF	0
180	WOMEN'S TOILET	Business Areas (gross)	638 SF	100 SF	7
181	MEN'S TOILET	Business Areas (gross)	663 SF	100 SF	7
182	BAG CLAIM DEVICE 2	N/A	1,198 SF	0 SF	0
2011	QUEUEING GATE 1	Airport Terminal Waiting Areas (gross)	463 SF	15 SF	31
2012	HOLDROOM	Airport Terminal Waiting Areas (gross)	1,142 SF	15 SF	77
2013	QUEUEING GATE 5	N/A	465 SF	0 SF	0
2014	HOLDROOM	Airport Terminal Waiting Areas (gross)	3,060 SF	15 SF	205
2015	QUEUEING GATE 7	N/A	491 SF	0 SF	0
2016	QUEUEING GATE 8	N/A	492 SF	0 SF	0
2017	QUEUEING GATE 6	N/A	467 SF	0 SF	0
2018	HOLDROOM	Airport Terminal Waiting Areas (gross)	1,378 SF	15 SF	92
2019	QUEUEING GATE 2	N/A	633 SF	0 SF	0
2312	CIRCULATION	Airport Terminal Concourse (gross)	1,661 SF	100 SF	17
A1201	HOLDROOM	Airport Terminal Waiting Areas (gross)	1,854 SF	15 SF	124
A1202	QUEUEING	N/A	440 SF	0 SF	0
A1203	HOLDROOM	Airport Terminal Waiting Areas (gross)	2,213 SF	15 SF	148
A2201	CONCOURSE	Airport Terminal Concourse (gross)	11,651 SF	100 SF	117
A2202	CONCOURSE	Airport Terminal Concourse (gross)	2,574 SF	100 SF	26
A2203	HOLDROOM	Airport Terminal Waiting Areas (gross)	820 SF	15 SF	55
A2204	STORAGE	Accessory Storage Areas, Mech Equip Room (gross)	280 SF	300 SF	1
A2205	JANITOR	Accessory Storage Areas, Mech Equip Room (gross)	37 SF	300 SF	1
A2206	WOMEN	Business Areas (gross)	752 SF	100 SF	8
A2207	men	Business Areas (gross)	666 SF	100 SF	7
A2209	HOLDROOM	Airport Terminal Waiting Areas (gross)	2,452 SF	15 SF	164
A2210	STAIR 7	Incidental	523 SF	0 SF	0
A2275	Area	(none)	152 SF		0
A2276	Area	Accessory Storage Areas, Mech Equip Room (gross)	24 SF	300 SF	1
A2301	CIRCULATION	Airport Terminal Concourse (gross)	2,124 SF	100 SF	22
A2303	CHECKPOINT	Business Areas (gross)	4,530 SF	100 SF	46
A2304	OFFICE	Business Areas (gross)	175 SF	100 SF	2
A2305	PSR	Business Areas (gross)	76 SF	100 SF	1
A2310	RESTAURANT	Mercantile (gross)	809 SF	60 SF	14
A2311	RESTAURANT SEATING	Assembly Unconcentrated - Tables and Chairs (net)	1,568 SF	15 SF	105
A2402	BAGGAGE CLAIM	Airport Terminal Baggage Claim (gross)	3,577 SF	20 SF	179
A2502	CIRCULATION	Airport Terminal Concourse (gross)	6,810 SF	100 SF	69
A2504	SSCP QUEUE	Assemby Standing Space and Queueing (net)	1,141 SF	5 SF	229
A2505	ATO#4	Business Areas (gross)	1,092 SF	100 SF	11
A2506	PASS SVC	Business Areas (gross)	338 SF	100 SF	4
A2507	BSO	Business Areas (gross)	196 SF	100 SF	2
A2508	BSO	Business Areas (gross)	110 SF	100 SF	2
A2510	JANITOR	Accessory Storage Areas, Mech Equip Room (gross)	59 SF	300 SF	1
A2511	JANITOR	Accessory Storage Areas, Mech Equip Room (gross)	40 SF	300 SF	1
A2512	MEN'S TOILET	Business Areas (gross)	590 SF	100 SF	6
A2513	FAMILY TOILET	Business Areas (gross)	98 SF	100 SF	1
A2514	MOTHER'S ROOM	Business Areas (gross)	100 SF	100 SF	1
A2515	WOMEN'S TOILET	Business Areas (gross)	588 SF	100 SF	6
A2516	STORAGE	Accessory Storage Areas, Mech Equip Room (gross)	51 SF	300 SF	1
A2521	OFFICE	Business Areas (gross)	149 SF	100 SF	2
A2523	MEN'S TOILET	Business Areas (gross)	509 SF	100 SF	6
A2524	BABY CHANGING	Business Areas (gross)	43 SF	100 SF	1
A2525	ELECTRICAL	Accessory Storage Areas, Mech Equip Room (gross)	174 SF	300 SF	1
A2526	WOMEN'S TOILET	Business Areas (gross)	542 SF	100 SF	6
A2527	CIRCULATION	Airport Terminal Concourse (gross)	1,880 SF	100 SF	19
C1	VESTIBULE	Airport Terminal Concourse (gross)	627 SF	100 SF	7
C2	VESTIBULE	Airport Terminal Concourse (gross)	656 SF	100 SF	7
C20	CONCESSIONS	Mercantile (gross)	525 SF	60 SF	9
C21	BSO	Business Areas (gross)	272 SF	100 SF	3
C29	RAC QUEUEING	Assemby Standing Space and Queueing (net)	100 SF	5 SF	20
C30	RAC OFFICES	Business Areas (gross)	708 SF	100 SF	8
C31	RAC QUEUEING	Assemby Standing Space and Queueing (net)	197 SF	5 SF	40
C32	RAC OFFICES	Business Areas (gross)	1,324 SF	100 SF	14
ELEV 4	ELEV 4	Incidental	79 SF	0 SF	0
ELEV 5	ELEV 5	Incidental	79 SF	0 SF	0
STAIR 4	STAIR 4	Incidental	183 SF	0 SF	0
STAIR 5	STAIR 5	Incidental	183 SF	0 SF	0
		TOTALS:	107,977 SF		2852

LIFE SAFETY PLAN LEGEND

ROOM TAG	ROOM NAME — Room name; 101 — ROOM NUMBER; ROOM AREA — (99,999 SF); 999 — NUMBER OF OCCUPANTS
EXIT WIDTH	ACTUAL CLEAR INCHES — 34" / 888 888; ACTUAL OCCUPANTS — MAX OCCUPANTS
MAXIMUM AREA DIAGONAL	X'
DISTANCE BETWEEN EXITS	REQUIRED X' X' ACTUAL
EXIT ACCESS TRAVEL DISTANCE	ALLOWABLE X' X' ACTUAL
EXIT SIGN	COORDINATE LOCATIONS AND REQUIREMENTS W/ ELECTRICAL DRAWINGS
FEC	4A:80B:C FIRE EXTINGUISHER IN FIRE EXTINGUISHER CABINET
(FE)	4A:80B:C WALL-MOUNTED FIRE EXTINGUISHER

TRUE NORTH

1 TICKET / BOARDING LEVEL LIFE SAFETY PLAN
1" = 20'-0"

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

THE WILSON GROUP ARCHITECTS REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 51140 NORTH CAROLINA CHARLOTTE, N.C.

CRAIG WALKER PAUL SEAL 9272 REGISTERED ARCHITECT NORTH CAROLINA CHARLOTTE, N.C.

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SPECIALTY LIGHTING CONSULTANT
HARTRANFT

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TAKEFORM

REVISIONS

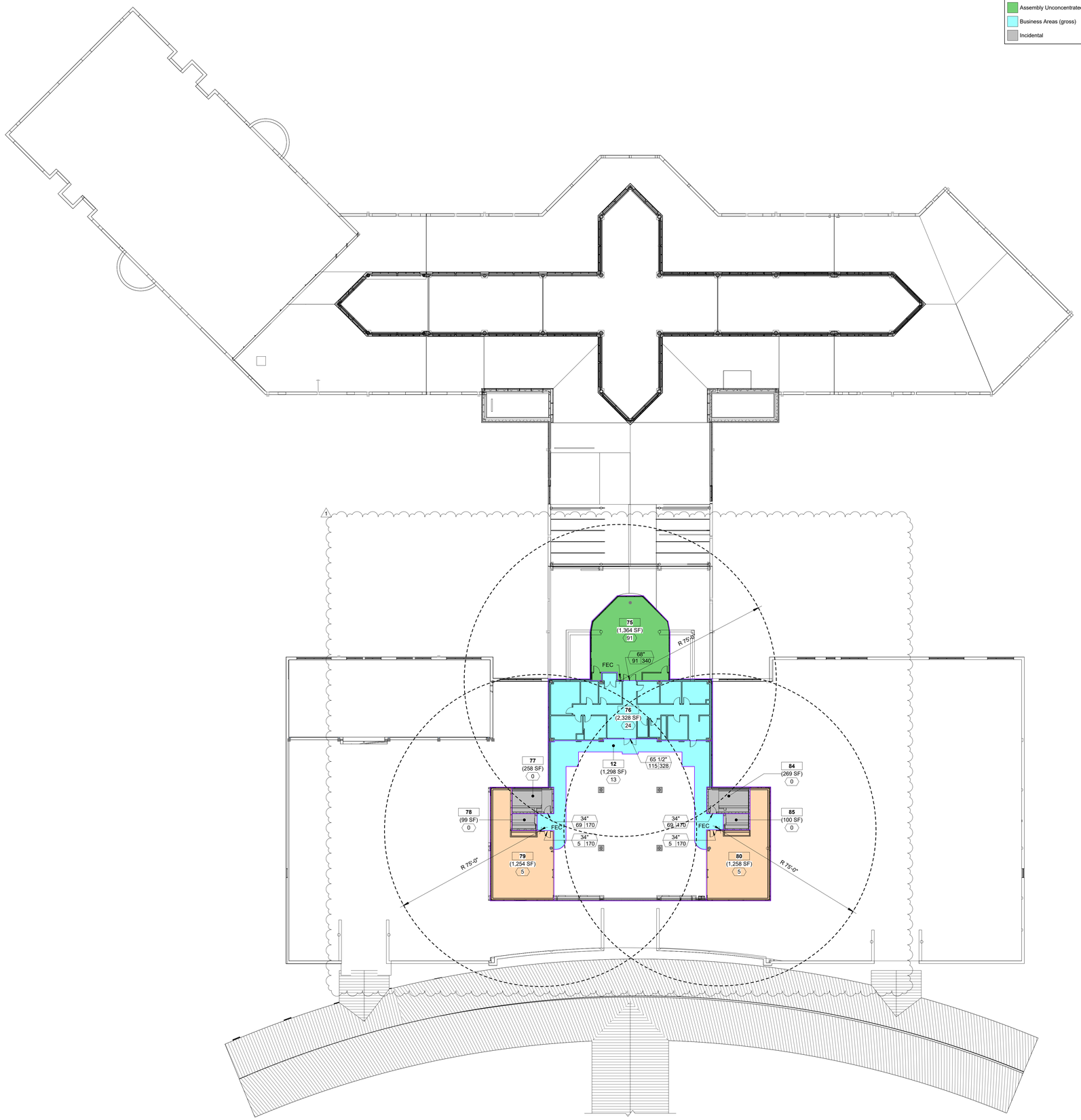
1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

LIFE SAFETY TICKET / BOARDING LEVEL

SHEET NUMBER

LS-002



1 ADMIN LEVEL LIFE SAFETY PLAN
1" = 20'-0"

TRUE NORTH

Occupancy Area Legend

- Accessory Storage Areas, Mech Equip Room (gross)
- Assembly Unconcentrated - Tables and Chairs (net)
- Business Areas (gross)
- Incidental

Life Safety Area Schedule - Admin Level

Number	Name	Area OCC Type	Area	Area Per Occupant	Calculated Occupant Load
ADMIN LEVEL					
12	Area	Business Areas (gross)	1,298 SF	100 SF	13
75	CONFERENCE ROOM	Assembly Unconcentrated - Tables and Chairs (net)	1,364 SF	15 SF	91
76	ADMIN AREA	Business Areas (gross)	2,328 SF	100 SF	24
77	STAIR #2	Incidental	258 SF	0 SF	0
78	ELEVATOR #2	Incidental	99 SF	0 SF	0
79	MECHANICAL	Accessory Storage Areas, Mech Equip Room (gross)	1,254 SF	300 SF	5
80	MECHANICAL	Accessory Storage Areas, Mech Equip Room (gross)	1,258 SF	300 SF	5
84	STAIR #1	Incidental	269 SF	0 SF	0
85	ELEVATOR #1	Incidental	100 SF	0 SF	0
		TOTALS:	8,228 SF		138

LIFE SAFETY PLAN LEGEND

ROOM TAG	ROOM NAME → Room name; 101 ← ROOM NUMBER; ROOM AREA → (99.999 SF); 999 ← NUMBER OF OCCUPANTS
EXIT WIDTH	ACTUAL CLEAR INCHES → 34" 888 888 ← MAX OCCUPANTS; ACTUAL OCCUPANTS
MAXIMUM AREA DIAGONAL	X'
DISTANCE BETWEEN EXITS	REQUIRED X' X' ACTUAL
EXIT ACCESS TRAVEL DISTANCE	ALLOWABLE X' X' ACTUAL
EXIT SIGN	COORDINATE LOCATIONS AND REQUIREMENTS W/ ELECTRICAL DRAWINGS
FEC	4A;80B;C FIRE EXTINGUISHER IN FIRE EXTINGUISHER CABINET
FE	4A;80B;C WALL-MOUNTED FIRE EXTINGUISHER

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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SPECIALTY LIGHTING CONSULTANT
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SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

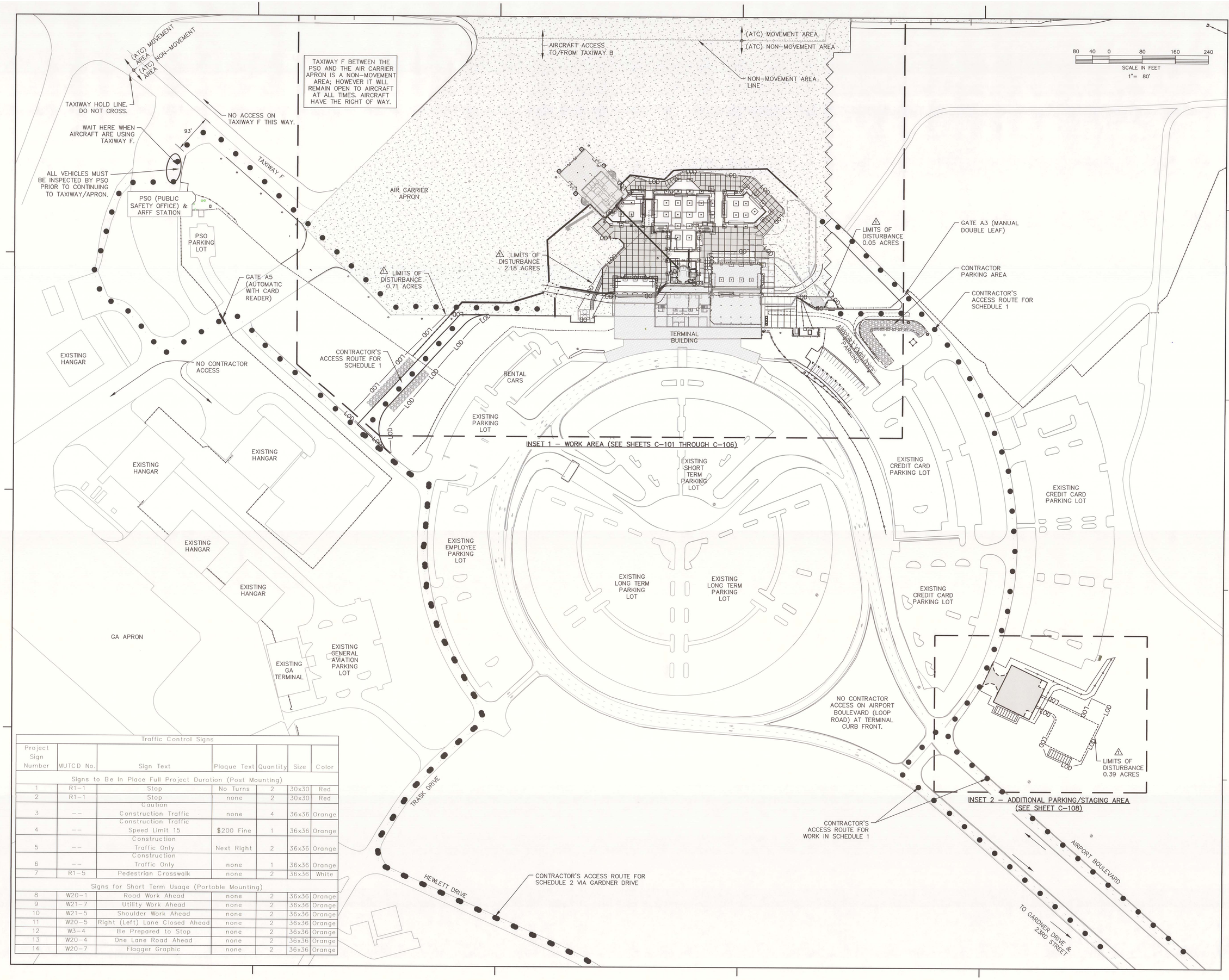
1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

LIFE SAFETY
ADMIN LEVEL

SHEET NUMBER

LS-003



Traffic Control Signs						
Project Sign Number	MUTCD No.	Sign Text	Plaque Text	Quantity	Size	Color
Signs to Be In Place Full Project Duration (Post Mounting)						
1	R1-1	Stop	No Turns	2	30x30	Red
2	R1-1	Stop	none	2	30x30	Red
3	--	Caution Construction Traffic	none	4	36x36	Orange
4	--	Construction Traffic Speed Limit 15	$200 Fine	1	36x36	Orange
5	--	Construction Traffic Only	Next Right	2	36x36	Orange
6	--	Construction Traffic Only	none	1	36x36	Orange
7	R1-5	Pedestrian Crosswalk	none	2	36x36	White
Signs for Short Term Usage (Portable Mounting)						
8	W20-1	Road Work Ahead	none	2	36x36	Orange
9	W21-7	Utility Work Ahead	none	2	36x36	Orange
10	W21-5	Shoulder Work Ahead	none	2	36x36	Orange
11	W20-5	Right (Left) Lane Closed Ahead	none	2	36x36	Orange
12	W3-4	Be Prepared to Stop	none	2	36x36	Orange
13	W20-4	One Lane Road Ahead	none	2	36x36	Orange
14	W20-7	Flagger Graphic	none	2	36x36	Orange

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
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7.24.19

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TAKEFORM

TRUE NORTH

REVISIONS

1	7/22/19	AD-03

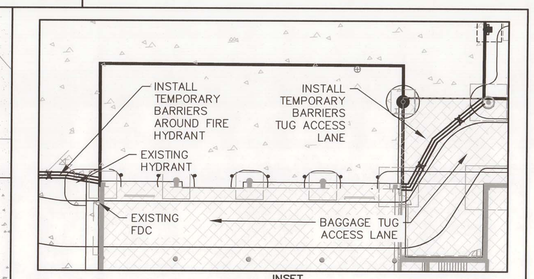
DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

OVERALL PROJECT SAFETY AND ACCESS PLAN

SHEET NUMBER
C-100

TAXIWAY B

40 20 0 40 80 120
SCALE IN FEET
1"= 40'



INSET
SCALE: 1" = 20'

TEMPORARY CHAIN LINK FENCE (UNDER EXISTING BUILDING)
STOWED GATE 2 JET BRIDGE
SCHEDULE 2
SCHEDULE 1
TRUCK TURN-AROUND 120' DIA.
CONTINUOUS CONCRETE BARRIER WITH CHAIN LINK FENCE AND HAZARD LIGHTS (TYP.)
SCHEDULE 2
CONTINUOUS CONCRETE BARRIER, WITH CHAIN LINK FENCE AND HAZARD LIGHTS (TYP.)
MARK 6" WIDE RED LINE
NON - SIDA WORK AREA
EXISTING TERMINAL
SCHEDULE 2 BID ALTERNATE
END OF EXISTING RETAINING WALL
CONSTRUCTION ACCESS
MECHANICAL ROOM
ELECTRICAL ROOM
BAGGAGE SCREENING (SIDA)
SEE INSET
INSTALL STOP SIGN WITH "NO TURN" SIGN UNDER STOP SIGN.
30' ACCESS GATES (2-TWO LEAF SWING GATES)
HALLWAY (N O N - S I D A)
TEMPORARY CHAIN LINK FENCE (IN GRASSED AREAS)
AREA AVAILABLE FOR CONTRACTOR'S OPERATIONS
INSTALL 40' CONSTRUCTION GATE WITHIN EXISTING FENCE (TYP.)
TEMPORARY TRUCK PAVEMENT 6" S12.5B/8" ABC
100 LF OF CURB FRONTAGE FOR CONTRACTOR LOADING (12:00 AM MIDNIGHT TO 8:00 AM ONLY) SEE NOTE*.
TEMPORARY GRAVEL PARKING AREAS. 20' WIDE. SLOPE GRAVEL ALONG EXISTING GRADES.
INSTALL SILT FENCE ALONG ROAD EDGE

* NOTE: THE CURB FRONTAGE SHOWN IS INTENDED FOR CONTRACTOR LOADING AND UNLOADING ONLY AND SHALL NOT BE USED FOR CONTRACTOR PARKING. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONES TO MANAGE THE LOADING ZONE. TRAILERS FOR DEMOLITION DEBRIS MAY BE PLACED IN THE DESIGNATED ZONE, BUT MUST BE REMOVED PRIOR TO THE DESIGNATED TIME EACH MORNING. THE CONTRACTOR SHALL KEEP THE AREA NEAT AND CLEAN AT ALL TIMES. DURING THE PERIOD FROM 4 AM TO 8 AM, AIRLINE DEPARTURES RESULT IN PEDESTRIAN TRAFFIC NEAR DESIGNATED LOADING AREA. THE CONTRACTOR SHALL USE CONES AND PERSONNEL TO PROVIDE SAFE PEDESTRIAN PASSAGE DURING LOADING, UNLOADING, AND DEBRIS REMOVAL, AND OTHER OPERATIONS.

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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7-24-19

THE WILSON GROUP
- ARCHITECTS -

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PROJECT MANAGER & CIVIL ENGINEER
TALBERT & BRIGHT

CONSULTING ARCHITECT
LS3P

STRUCTURAL ENGINEER
STEWART

FP/P/M/E ENGINEER
CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
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AIRCRAFT SUPPORT SYSTEMS
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TAKEFORM

TRUE NORTH

REVISIONS

1	7/22/19	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PROJECT SAFETY AND ACCESS PLAN - SCHEDULE 2 WITH BID ALTERNATE

SHEET NUMBER
C-103

TAXIWAY B

40 20 0 40 80 120
SCALE IN FEET
1"= 40'

REMOVE TEMPORARY CHAIN LINK FENCE

REMOVE ALL CONTINUOUS CONCRETE BARRIER WITH CHAIN LINK FENCE AND HAZARD LIGHTS (TYP.) (SCHEDULE 2)

REMOVE PORTAL ACCESS GATES AND RED MARKING (SCHEDULE 2)

REMOVE TEMPORARY GATE (SCHEDULE 2) AND REPLACE WITH FENCE

1

REMOVE TEMPORARY TRUCK PAVEMENT AND GRAVEL PARKING AREAS (SCHEDULE 2)

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

TALBERT & BRIGHT, INC.
4810 SHELLEY DRIVE
WILMINGTON, NC, 28405
NC C-0713

NORTH CAROLINA PROFESSIONAL SEAL 024169 ENGINEER M. STUMPH

7-24-19

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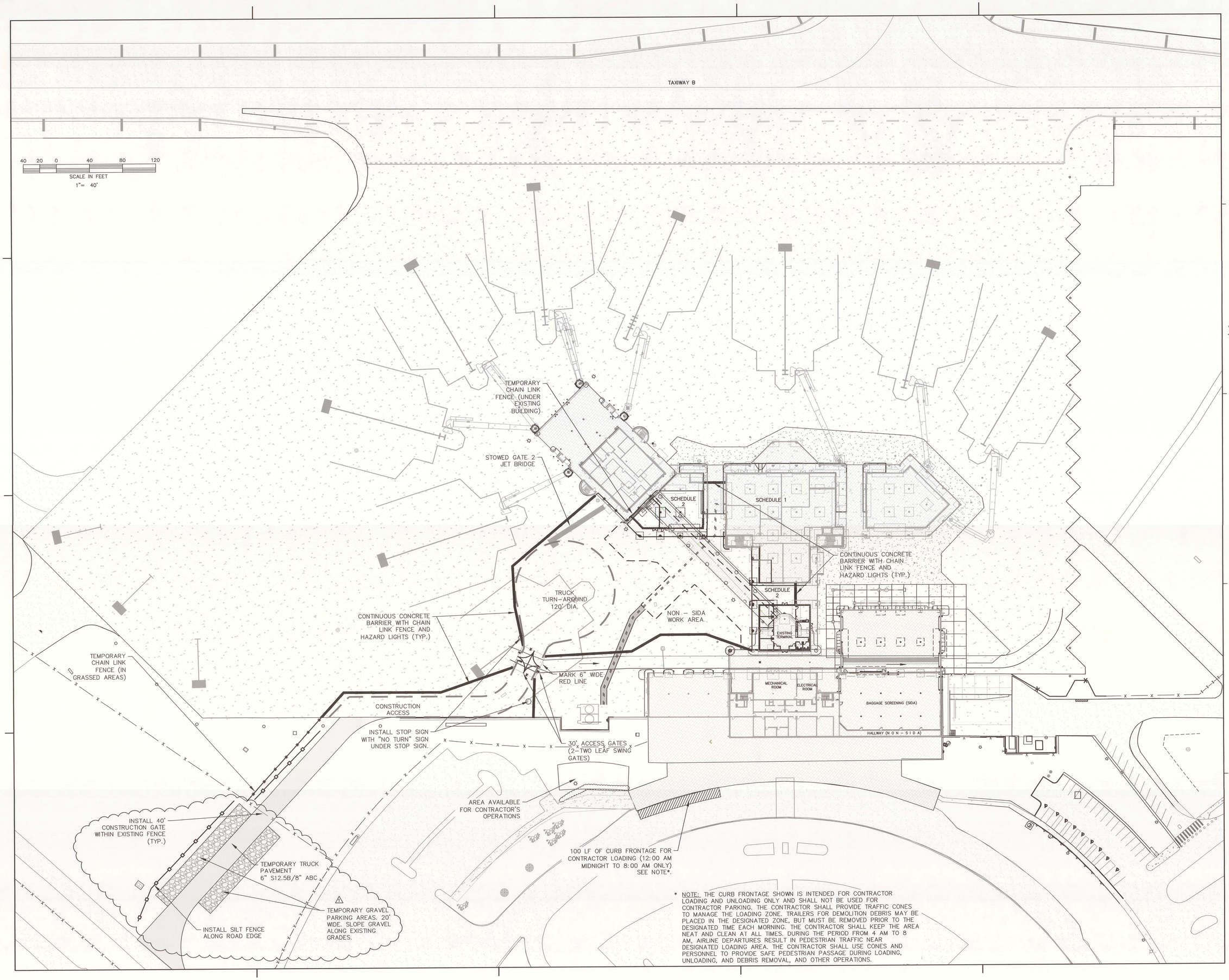
1	7/22/19	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PROJECT SAFETY AND ACCESS PLAN - RESTORATION SCHEDULE 2 WITH BID ALTERNATE

SHEET NUMBER
C-104



* NOTE: THE CURB FRONTAGE SHOWN IS INTENDED FOR CONTRACTOR LOADING AND UNLOADING ONLY AND SHALL NOT BE USED FOR CONTRACTOR PARKING. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONES TO MANAGE THE LOADING ZONE. TRAILERS FOR DEMOLITION DEBRIS MAY BE PLACED IN THE DESIGNATED ZONE, BUT MUST BE REMOVED PRIOR TO THE DESIGNATED TIME EACH MORNING. THE CONTRACTOR SHALL KEEP THE AREA NEAT AND CLEAN AT ALL TIMES. DURING THE PERIOD FROM 4 AM TO 8 AM, AIRLINE DEPARTURES RESULT IN PEDESTRIAN TRAFFIC NEAR DESIGNATED LOADING AREA. THE CONTRACTOR SHALL USE CONES AND PERSONNEL TO PROVIDE SAFE PEDESTRIAN PASSAGE DURING LOADING, UNLOADING, AND DEBRIS REMOVAL, AND OTHER OPERATIONS.

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PROJECT NUMBER 9202-000
SHEET TITLE

PROJECT SAFETY AND ACCESS PLAN - SCHEDULE 2 WITHOUT BID ALTERNATE

SHEET NUMBER
C-105

TAXIWAY B

40 20 0 40 80 120
SCALE IN FEET
1"= 40'

REMOVE TEMPORARY CHAIN LINK FENCE

REMOVE ALL CONTINUOUS CONCRETE BARRIER WITH CHAIN LINK FENCE AND HAZARD LIGHTS (TYP.) (SCHEDULE 2)

REMOVE PORTAL ACCESS GATES AND RED MARKING (SCHEDULE 2)

REMOVE TEMPORARY GATE (SCHEDULE 2) AND REPLACE WITH FENCE

REMOVE TEMPORARY TRUCK PAVEMENT AND GRAVEL PARKING AREAS (SCHEDULE 2)

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1	7/22/19	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PROJECT SAFETY AND ACCESS PLAN - RESTORATION SCHEDULE 2 WITHOUT BID ALTERNATE

SHEET NUMBER
C-106

SAFETY PLAN REQUIREMENTS

1. THIS PLAN IS INTENDED TO ADDRESS AVIATION SAFETY ISSUES RELATIVE TO AIRCRAFT OPERATIONS, AIRLINE TERMINAL OPERATIONS AND CONSTRUCTION OPERATIONS TAKING PLACE IN CLOSE PROXIMITY AND AT THE SAME TIME. THE CONTRACTOR SHALL BE SOLELY AND FULLY RESPONSIBLE FOR ALL ASPECTS OF CONSTRUCTION SAFETY, INCLUDING BUT NOT LIMITED TO OSHA REQUIREMENTS AND AIRPORT SAFETY CONSIDERATIONS.
2. THE PROJECT WORK AREA IS LOCATED WITHIN OR ADJACENT TO THE AIRCRAFT OPERATIONS AREA (AOA), THE SECURITY IDENTIFICATION DISPLAY AREA (SIDA), TEMPORARY NON-SIDA WORK ZONES (SECURITY ZONES WITH LESS RESTRICTIVE REQUIREMENTS THAN THE SIDA), AND UN-SECURED AREAS OF THE AIRLINE TERMINAL AREA. THE CONTRACTOR WILL BE REQUIRED TO MEET ALL REQUIREMENTS FOR ENTERING AND OPERATING IN THESE AREAS AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH ALL REQUIREMENTS FOR ENTERING AND OPERATING IN THE AOA, SIDA, AND NON-SIDA WORK AREAS. FURTHER, IT WILL REMAIN THE CONTRACTOR'S RESPONSIBILITY TO KEEP HIMSELF ADVISED OF ANY CHANGES IN REQUIREMENTS, TO ADHERE TO CURRENT REGULATIONS, AND TO ADHERE TO CURRENT REGULATIONS FOR SECURITY BADGING OF HIS PERSONNEL.
3. SECURITY VIOLATIONS COMMITTED BY CONTRACTOR PERSONNEL MAY RESULT IN AN $11,000 FINE FROM THE TSA, WHICH WILL BE PASSED ON TO THE CONTRACTOR.
4. THE CONTRACTOR SHALL NOT BEGIN WORK UNLESS AND UNTIL 7 DAYS PRIOR NOTICE HAS BEEN GIVEN TO THE AIRPORT MANAGEMENT. CROSSING OF RUNWAYS OR TAXIWAYS IS NOT ALLOWED FOR THIS PROJECT.
5. IN AN EMERGENCY SITUATION THE CONTRACTOR IS TO NOTIFY THE PUBLIC SAFETY OFFICE IMMEDIATELY. THE PUBLIC SAFETY OFFICE CAN BE REACHED BY PHONE AT 910-341-4336.
6. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL DESIGNATE A REPRESENTATIVE AND ALTERNATE TO CONTACT ON A 24 HOUR BASIS SHOULD PROBLEMS ARISE. THE CONTRACTOR SHALL PROVIDE A CONTACT LIST FOR ALL SUPERVISORY PERSONNEL AND ALL SUBCONTRACTORS.
7. A DAILY START-UP AND SHUT-DOWN CHECKLIST WILL BE JOINTLY PREPARED BY THE CONTRACTOR AND AIRPORT MANAGEMENT. THE CHECKLIST WILL BE FOLLOWED THROUGHOUT THE PROJECT. THIS CHECKLIST SHALL INCLUDE, BUT NOT BE LIMITED TO BARRICADES, FLAGS, HAUL ROUTES, SECURING OF ACCESS GATES, CLEAN UP, ETC. THE CONTRACTOR'S SITE SUPERVISOR AND LABOR CREW SHALL NOT LEAVE THE WORK SITE UNTIL SUCH TIME AS THE PUBLIC SAFETY OFFICE HAS INSPECTED THE AREA AND SIGNED OFF ON THE DAILY CHECKLIST.
8. UNDERGROUND UTILITIES ARE KNOWN TO BE LOCATED IN THE PROJECT AREA. EXISTING UNDERGROUND UTILITIES INCLUDING BUT NOT LIMITED TO SEWER, WATER, TELEPHONE, DUKE ENERGY, CABLE TV, FIBER OPTIC, AND TELEPHONE AND OTHER UTILITIES MAY BE IN THE PATH OF CONSTRUCTION. BOTH UTILITY AND "PRIVATE" (AIRPORT, TSA, AIRLINES) LINES ARE PRESENT. LOCATIONS OF UTILITIES IF SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ALL UTILITIES AND FACILITIES ARE NOT NECESSARILY INDICATED ON PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT EXISTING UTILITIES AND FACILITIES FROM DAMAGE.
9. THE CONTRACTOR SHALL CLEAN ALL CONSTRUCTION AREAS OF LITTER, LOOSE PAPERS, DEBRIS, ETC. ON A DAILY BASIS, OR AS DIRECTED. PRIOR TO THE CLOSE OF DAILY OPERATIONS, CONTRACTOR SHALL INSPECT ALL ACTIVE AIR OPERATIONS AREAS AND CONSTRUCTION AREA FOR FOD AND LITTER. ALL DEBRIS SHALL BE CLEANED UP AND PROPERLY DISPOSED OF PRIOR TO RELEASE OF CREWS FROM EACH SHIFT.
10. INSPECTION – FREQUENT INSPECTIONS WILL BE MADE BY THE AIRPORT PUBLIC SAFETY OFFICE DURING CRITICAL PHASES OF THE WORK TO ENSURE THAT THE CONTRACTOR IS FOLLOWING THE RECOMMENDED AIRFIELD SAFETY PROCEDURES.

GENERAL NOTES:

1. IT IS THE INTENT OF THE OWNER THAT THE WILMINGTON INTERNATIONAL AIRPORT WILL REMAIN OPEN TO AIR TRAFFIC DURING THE WORK ACCOMPLISHED UNDER THIS PROJECT. THERE MAY BE MORE THAN ONE CONTRACTOR WORKING ON THE AIRPORT SIMULTANEOUSLY. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL WORK TO MINIMIZE CONFLICTS WITH OTHER CONTRACTORS.
2. PRIOR TO LEAVING WORK EACH DAY, CONTRACTOR SHALL RETURN HIS EQUIPMENT AND MATERIALS TO THE STAGING AREAS IDENTIFIED ON THE PLANS.
3. ALL CONTRACTOR PERSONNEL, INCLUDING BUT NOT LIMITED TO, GENERAL LABORERS, SUBCONTRACTORS, DRIVERS, AND JOURNEYMEN WORKING IN THE PROJECT WORK AREA MUST AT ALL TIMES REMAIN WITHIN VISUAL AND VOICE RANGE OF CONTRACTOR SUPERVISORY PERSONNEL BADGED BY THE AIRPORT. SEE ESCORT TABLE FOR REQUIREMENTS.
4. PRIOR TO ENTERING THE SECURED AREA OF THE AIRPORT EACH DAY, THE CONTRACTOR SHALL CHECK IN WITH THE PSO. ALL VEHICLES ENTERING THE SIDA AREA SHALL BE INSPECTED BY PSO OFFICERS AT THE GATE.

   THE CONTRACTOR SHALL COORDINATE INGRESS-EGRESS REQUIREMENTS WITH THE AIRPORT MANAGEMENT. ALL OPEN GATES TO SECURED AIRPORT AREAS SHALL BE MONITORED CONTINUOUSLY BY CONTRACTOR'S PERSONNEL TO CONTROL ACCESS TO SECURED AREA OR SHALL BE CLOSED AND LOCKED. CONTRACTOR PERSONNEL SHALL NOT ALLOW ANY UNAUTHORIZED PERSONNEL TO ENTER THROUGH THE GATES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND LOCKING ALL GATES WHEN NOT IN USE AND AT THE END OF EACH DAY'S OPERATIONS. IT IS RECOMMENDED THAT GATE MONITORS LOG IN AND OUT ALL VEHICLES ENTERING AND LEAVING THE PROJECT AREAS. CONTRACTOR SHALL INTERLOCK AT PADLOCKED GATES. CONTRACTOR SHALL PROVIDE A COPY OF ALL GATE KEYS TO THE PSO. CONTRACTOR SHALL PROVIDE A LIST OF ALL KEY HOLDERS WHICH SHALL BE KEPT UPDATED THROUGHOUT THE PROJECT.

   ALL CONSTRUCTION VEHICLES MUST BE CLEARED FOR ACCESS BY THE AIRPORT MANAGEMENT. PERSONAL CARS SHALL BE PARKED OUTSIDE OF SECURED AIRFIELD AREAS. ALL VEHICLES OPERATING IN THE SIDA SHALL BE LIGHTED OR FLAGGED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2G. COPIES OF THE ADVISORY CIRCULAR WILL BE MADE AVAILABLE UPON REQUEST.
5. FOR THIS PROJECT, CONSTRUCTION VEHICLES ARE PROHIBITED FROM OPERATING ON ACTIVE RUNWAYS AND TAXIWAYS.
6. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ASSURE THAT SUCH OPERATIONS DO NOT IMPEDE ACCESS TO ANY AREA OF THE AIRFIELD AT ANY TIME FOR THE AIRPORT'S AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) VEHICLES AND OTHER EMERGENCY VEHICLES. ARFF VEHICLE ACCESS SHALL BE A STANDING AGENDA ITEM FOR ALL PROGRESS MEETINGS. THE CONTRACTOR SHALL COOPERATE FULLY AND IMMEDIATELY WITH ANY DIRECTIVES ISSUED BY AIRPORT PUBLIC SAFETY OFFICE PERSONNEL RELATIVE TO EMERGENCY ACCESS.
7. ACCESS ROADS TO BE USED UNDER THIS CONTRACT SHALL BE THOSE DESIGNATED AND APPROVED BY THE ENGINEER. IN GENERAL, THE CONTRACTOR SHALL CONFINE HIS EQUIPMENT AND HAULING WHERE PRACTICAL TO EXISTING ROADS ON THE AIRPORT. IF EXISTING PAVEMENT OR ROAD SURFACE IS DAMAGED BY THE CONTRACTOR'S HAULING OPERATIONS, IT SHALL BE REPAIRED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. METAL TRACK VEHICLES WILL NOT BE PERMITTED TO OPERATE ON OR ACROSS EXISTING PAVEMENT WITHOUT PROTECTIVE MATTING TO PREVENT MARRING OF THE PAVEMENT SURFACE.
8. ALL EXISTING UTILITIES AND FACILITIES SHALL BE CAREFULLY PROTECTED BY THE CONTRACTOR. ANY FACILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AND RESTORED TO ORIGINAL CONDITION AT CONTRACTOR'S COST.
9. CONTRACTOR SHALL DISPOSE OF CONSTRUCTION DEBRIS OFF AIRPORT PROPERTY IN A PROPERLY PERMITTED FACILITY. ALL COSTS FOR OFFSITE DISPOSAL SHALL BE INCLUDED IN THE BASE BID.

CONSTRUCTION CONTRACTOR'S RESPONSIBILITIES

1. SUBMIT PLANS TO THE AIRPORT OPERATOR ON HOW TO COMPLY WITH THE SAFETY REQUIREMENTS OF THE PROJECT INCLUDING SAFETY PLAN COMPLIANCE DOCUMENT.
2. HAVE A COPY OF THE PROJECT AIRPORT SAFETY PLANS AVAILABLE ON SITE.
3. COMPLY WITH THE AIRPORT SAFETY PLAN ASSOCIATED WITH THE CONSTRUCTION PROJECT AND ENSURE THAT CONSTRUCTION PERSONNEL ARE FAMILIAR WITH SAFETY PROCEDURES AND REGULATIONS ON THE AIRPORT.
4. PROVIDE A POINT OF CONTACT WHO WILL COORDINATE AN IMMEDIATE RESPONSE TO CORRECT ANY CONSTRUCTION-RELATED ACTIVITY THAT MAY ADVERSELY AFFECT THE OPERATIONAL SAFETY OF THE AIRPORT.
5. PROVIDE A SAFETY/CONSTRUCTION INSPECTOR FAMILIAR WITH AIRPORT SAFETY TO MONITOR CONSTRUCTION ACTIVITIES.
6. RESTRICT MOVEMENT OF CONSTRUCTION VEHICLES TO CONSTRUCTION AREAS BY FLAGGING AND BARRICADING, ERECTING TEMPORARY FENCING, OR PROVIDING ESCORTS AS APPROPRIATE.
7. ENSURE THAT NO CONSTRUCTION EMPLOYEES, EMPLOYEES OF SUBCONTRACTORS OR SUPPLIERS, OR OTHER PERSONS ENTER ANY PART OF THE AIR OPERATIONS AREAS (AOA) FROM THE CONSTRUCTION SITE EXCEPT AS AUTHORIZED.
8. THE CONTRACTOR SHALL HAVE A MINIMUM OF 2 SUPERVISORY PERSONNEL BADGED BY THE AIRPORT SECURITY OFFICE ON SITE AT ALL TIMES. AN ADEQUATE NUMBER OF BADGED SUPERVISORY PERSONNEL SHALL BE PROVIDED TO ASSURE FULL SUPERVISION FOR WORK REQUIRED WITHIN THE SIDA AREA.
9. THE CONTRACTOR IS ADVISED THAT DUST, SMOKE, DEBRIS, ETC. POSES A SERIOUS RISK OF DAMAGE TO AIRCRAFT ENGINES AND SURFACES AND CAN BE MOBILIZED BY WIND, JET BLAST, PROP WASH, TIRE ACTION, AND CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL DILIGENTLY CONTROL ALL LOOSE MATERIAL, DEBRIS, WASTE MATERIALS, DUST, ETC. TO MINIMIZE THIS RISK.
10. THE CONTRACTOR SHALL FAMILIARIZE HIS PERSONNEL, SUBCONTRACTORS, AND SUPPLIERS WITH THE NOISE, JET BLAST, AND PROP WASH EFFECTS OF ACTIVE AIRCRAFT OPERATIONS ADJACENT TO THE CONSTRUCTION AREAS AND SHALL PLAN CONSTRUCTION AND MATERIAL HANDLING OPERATIONS ACCORDINGLY.
11. THE CONTRACTOR SHALL FAMILIARIZE HIS PERSONNEL, SUBCONTRACTORS, AND SUPPLIERS WITH AIRPORT SECURITY ISSUES, SHALL FULLY COOPERATE WITH AIRPORT, PSO, AND TSA SECURITY PERSONNEL, AND SHALL REPORT ANY SUSPICIOUS ACTIVITY TO AIRPORT POLICE.

SIDA BADGES, ESCORTING, SECURITY, STAGING AND ACCESS REQUIREMENTS

1. ALL WORK OF THIS PROJECT IS LOCATED WITHIN OR IMMEDIATELY ADJACENT TO THE SECURITY IDENTIFICATION DISPLAY AREA (SIDA) AT THE WILMINGTON INTERNATIONAL AIRPORT. THEREFORE, ALL WORK SHALL BE PERFORMED BY WORKERS BEARING AIRPORT ISSUED SIDA BADGES OR UNDER THE DIRECT CONTROL OF A WORKER BEARING AN AIRPORT ISSUED SIDA BADGE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING FOR AN ADEQUATE NUMBER OF CONTRACTOR AND SUBCONTRACTOR PERSONNEL TO OBTAIN BADGES SO AS TO MEET THIS REQUIREMENT.
2. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL TEAM AND AIRPORT MANAGEMENT WITH REGARD TO THE ADVANCE SCHEDULING AND TSA REVIEW AND APPROVAL OF UPCOMING CHANGES IN SECURED AREA AND SIDA LIMITS, BOTH INSIDE AND OUTSIDE OF THE TERMINAL BUILDING. ALLOW 45 CALENDAR DAYS FOR TSA REVIEW AND APPROVAL OF SUCH CHANGES.
3. THE SIDA IS THAT AREA OF THE AIRPORT WHERE SECURITY MEASURES ASSOCIATED WITH AIRLINE OPERATIONS ARE IN PLACE. THE SIDA INCLUDES ALL OF THE AIR CARRIER APRON AND PORTIONS OF THE AIRLINE TERMINAL BUILDING, INCLUDING THE OUTBOUND BAGGAGE SCREENING ROOM, INBOUND AND OUTBOUND BAGGAGE MAKE-UP ROOMS AND MOST LOWER LEVEL OFFICE, STORAGE AND MECHANICAL SPACES. A TEMPORARY NON-SIDA WORK AREA WILL BE ESTABLISHED FOR CONSTRUCTION OF THE BUILDING EXPANSION.
4. PORTIONS OF THE LOWER LEVEL OF THE AIRLINE TERMINAL BUILDING, INCLUDING THE MAIN HALLWAYS, ARE NOT WITHIN THE SIDA, BUT ARE NOT OPEN TO THE GENERAL PUBLIC. ALL DOORS TO THE SIDA ARE SECURITY DOORS AND MUST REMAIN SECURE AT ALL TIMES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AT ALL TIMES AN ADEQUATE NUMBER OF PERSONNEL WITH AIRPORT SIDA BADGES WITH ESCORT PRIVILEGES AND COMPLETED TRAINING SUCH THAT ALL WORK CREWS ARE ESCORTED AT ALL TIMES BY BADGED PERSONNEL. ALL UNBADGED PERSONNEL SHALL BE ESCORTED BY BADGED PERSONNEL AND MUST BE WITHIN VISUAL AND VOICE CONTACT RANGE OF THE BADGED ESCORT AT ALL TIMES. ALL BADGED PERSONNEL MUST DISPLAY (WEAR) THEIR BADGE ON THEIR PERSON (ATTACHED TO THE OUTER LAYER OF CLOTHING BETWEEN THE SHOULDER AND WAIST) AT ALL TIMES WHEN ON SITE, REGARDLESS OF WHETHER THEY ARE PRESENT INSIDE THE SECURED AREA AND REGARDLESS OF WHETHER OR NOT THEY ARE ACTIVELY ESCORTING UNBADGED PERSONNEL. ALL CONTRACTOR, SUBCONTRACTOR, DELIVERY AND SUPPLIER PERSONNEL WORKING WITHIN OR ADJACENT TO THE SIDA MUST HAVE SIDA BADGES ISSUED BY THE AIRPORT OR SHALL BE UNDER THE CONTROL OF PERSONNEL WITH SIDA BADGES. SEE ESCORT TABLE FOR REQUIREMENTS.
6. ANY BADGED INDIVIDUAL WHO FORGETS, MISPLACES OR OTHERWISE DOES NOT HAVE HIS/HER BADGE DISPLAYED ON HIS/HER PERSON MAY NOT BE ESCORTED BY ANOTHER BADGED INDIVIDUAL AND MUST RETRIEVE HIS/HER BADGE PRIOR TO SIDA ENTRY. LOST BADGES MUST BE REPORTED IMMEDIATELY TO THE CONTRACTOR BADGE MANAGER AND TO THE PSO. CHARGES MAY APPLY FOR REPLACEMENT BADGES.
7. SIDA BADGES MUST BE OBTAINED THROUGH THE AIRPORT PUBLIC SAFETY OFFICE (PSO), LOCATED AT THE AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) STATION. BADGING FOR EACH INDIVIDUAL REQUIRES COMPLETION OF THE APPLICATION FORM, PAYMENT OF A PROCESSING FEE ($90.00 PER INDIVIDUAL REQUESTING A BADGE), PRESENTATION OF TWO ACCEPTABLE FORMS OF IDENTIFICATION, A BACKGROUND CHECK BY PSO STAFF, DIGITAL FINGERPRINTING BY PSO STAFF AND FEDERAL PROCESSING THEREOF AND TRAINING. ALLOW TWO HOURS FOR APPLICATION SUBMITTAL AND FINGERPRINTING AND FOUR HOURS (ON A SUBSEQUENT DATE) FOR TRAINING AND BADGE ISSUANCE. ALLOW TWO WEEKS FOR THE BADGING PROCESS. IN THAT THE CONTRACT WORK IS MULTI-YEAR, BADGED CONTRACTOR AND SUBCONTRACTOR PERSONNEL SHALL BE REQUIRED TO UNDERGO ANNUAL RECURRENT TRAINING.
8. BADGE TRAINING SHALL INCLUDE SIDA RAMP DRIVING AND SIDA ESCORT PRIVILEGES. AUTHORIZED DRIVING WILL BE LIMITED TO THE GATE A5 ACCESS TO THE PSO, TAXIWAY F FROM PSO TO THE AIR CARRIER APRON AND THE AIR CARRIER APRON ADJACENT TO THE TERMINAL BUILDING. DRIVING WITHIN THE ATC GROUND CONTROL MOVEMENT AREA IS NOT REQUIRED FOR THIS PROJECT AND IS PROHIBITED.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A BADGE AND SECURITY MANAGEMENT PROGRAM WITH A PRIMARY AND SECONDARY (BACK-UP) BADGE AND SECURITY MANAGER. THESE INDIVIDUALS SHALL BE DESIGNATED BY THE CONTRACTOR AS HAVING SIGNATORY AUTHORITY FOR AIRPORT SECURITY BADGING MATTERS. THIS DESIGNATION SHALL BE IN THE FORM OF A NOTARIZED LETTER TO THE AIRPORT DIRECTOR, ON CONTRACTOR LETTERHEAD, SIGNED BY AN OFFICER OF THE COMPANY. THE SECURITY MANAGERS MUST OBTAIN AND MAINTAIN AIRPORT SIDA/SECURITY BADGES WITH ESCORT PRIVILEGES AND SHALL UNDERGO SIGNATORY AUTHORITY TRAINING BY THE AIRPORT. THE PROGRAM IS INTENDED TO MANAGE, COORDINATE (WITH AIRPORT MANAGEMENT) AND DOCUMENT: (1) THE SECURING OF AIRPORT SIDA BADGES FOR CONTRACTOR AND SUBCONTRACTOR PERSONNEL (THE APPLICATIONS ARE TO BE SIGNED BY THE SIGNATORY AUTHORITY AFTER THE APPLICANT HAS SIGNED THE FORM), (2) AIRPORT SECURITY AND SAFETY RELATED TRAINING, (3) AN INVENTORY OF ACTIVE BADGES, (4) IMMEDIATELY TURNING IN BADGES OF TERMINATED STAFF AND THE STAFF OF TERMINATED SUBCONTRACTORS, (5) REGULAR REVIEW AND UPDATES OF SECURITY MATTERS, PROJECT MEETING SECURITY RELATED AGENDA ITEMS, GATE KEEPING AND DOOR MANAGEMENT EFFORTS, TEMPORARY SIDA LIMITS (INCLUDING TEMPORARY WALLS, FENCES, GATES AND DOORS), DISCIPLINARY AND CORRECTIVE ACTIONS, AND ADVANCE PLANNING FOR CHANGES IN CONSTRUCTION WORK AREAS AND SIDA LIMITS. THE GENERAL CONTRACTOR SHALL IMMEDIATELY REPORT TO THE PSO WHEN A SUBCONTRACTOR HAS COMPLETED ITS WORK. FAILURE TO REPORT WILL RESULT IN A $250 FINE ASSESSED TO THE GENERAL CONTRACTOR. ALL BADGES ISSUED TO THE SUBCONTRACTOR SHALL THEN BE RETURNED TO THE PDO WITHIN 72 HOURS. FAILURE TO RETURN BADGES WILL RESULT IN A $250 FINE PER BADGE.
10. ALL CONSTRUCTION VEHICLES ENTERING THE SIDA MUST BE INSPECTED BY PSO PERSONNEL. EXCEPT AS OTHERWISE AUTHORIZED, ALL VEHICLES REQUIRING ENTRY TO THE SIDA SHALL ENTER THE AIRPORT SECURITY PERIMETER AT GATE A5 AND SHALL PROCEED TO THE INSPECTION AREA AT THE PSO AS SHOWN ON THE PLAN. FOLLOWING INSPECTION, THE VEHICLE SHALL PROCEED TO THE SIDA WORK AREA VIA TAXIWAY F. CONSTRUCTION VEHICLES SHALL YIELD TO AIRCRAFT TRAFFIC OPERATING NEAR GATE A5, ON TAXIWAY F AND ON THE AIR CARRIER APRON. VEHICLE SHALL REMAIN WELL CLEAR OF MOVING AND PARKED AIRCRAFT. ON THE AIR CARRIER APRON, CONSTRUCTION VEHICLES SHALL REMAIN AS CLOSE AS POSSIBLE TO THE APRON EDGE AND THE AIRLINE TERMINAL BUILDING. CONSTRUCTION VEHICLES SHALL YIELD TO EMERGENCY VEHICLES, AIRLINE GROUND SERVICE VEHICLES (AIRCRAFT TUGS, BAGGAGE TUGS, BAGGAGE CARTS, BAGGAGE LOADERS, DEICING EQUIPMENT, ETC.), AIRCRAFT FUELING TRUCKS AND AIRPORT VEHICLES AT ALL TIMES.
11. CONSTRUCTION VEHICLES FOR THIS PROJECT ARE EXPRESSLY PROHIBITED FROM DRIVING IN THE AIR TRAFFIC CONTROL MOVEMENT AREA WHICH INCLUDES TAXIWAYS AND RUNWAYS.
12. *FOR SECURITY TRANSITION PERIODS (INSTALLATION, RELOCATION AND REMOVAL OF TEMPORARY SIDA FENCING, BARRIERS AND GATES),* ANY VEHICLE (SUCH AS DELIVERY TRUCKS, READY MIX CONCRETE TRUCKS, ETC.) NOT DRIVEN BY A SIDA BADGED INDIVIDUAL WILL REQUIRE AN ESCORT VEHICLE (WITH A SIDA BADGED DRIVER). THE ESCORT VEHICLE/DRIVER SHALL ESCORT THE VEHICLE FROM GATE A5 TO THE PSO FOR INSPECTION, FROM THE PSO TO THE SIDA WORK AREA AND BACK TO GATE A5 TO EXIT THE AIRPORT. NO MORE THAN TWO VEHICLES MAY BE LED BY ONE ESCORT VEHICLE.
13. DEPENDING ON PSO STAFF WORK LOAD, INFREQUENT LARGE-SCALE DELIVERIES TO THE SITE STAGING AREA MAY BE AUTHORIZED FOR ENTRY AND INSPECTION AT GATE A3. GATE A3 IS NOT AVAILABLE FOR ROUTINE CONSTRUCTION ACCESS.
14. CONSTRUCTION VEHICLES ROUTINELY ENTERING THE SIDA WORK AREA OR NON-SIDA WORK AREA MUST BEAR THE NAME AND PHONE NUMBER OF THE CONTRACTOR OR SUBCONTRACTOR, SHALL BE REGISTERED WITH THE PSO (THROUGH THE CONTRACTOR BADGE MANAGER), AND SHALL BE EQUIPPED WITH AN AMBER BEACON.
15. THE PERSONAL VEHICLES OF WORKERS SHALL BE PARKED IN THE DESIGNATED AREAS OUTSIDE THE AIRPORT PERIMETER FENCE. OVERFLOW CONTRACTOR PARKING IS AVAILABLE NEAR THE US CUSTOMS BUILDING.
16. VEHICLES ENTERING THE NON-SIDA WORK AREA DO NOT REQUIRE PSO INSPECTION BUT SHALL BE CONTROLLED BY THE CONTRACTOR'S GATE KEEPERS. THE AIRPORT RESERVES THE RIGHT TO CONDUCT RANDOM SECURITY INSPECTIONS OF VEHICLES, MATERIALS, AND STORAGE BOXES AT ANY TIME.
17. THE CONTRACTOR IS REMINDED THAT WEAPONS ARE PROHIBITED ON AIRPORT PROPERTY AND THAT THIS IS A DRUG FREE WORK ZONE.
18. AREAS AS SHOWN ON THE PLANS HAVE BEEN RESERVED ON THE AIR CARRIER APRON FOR CONTRACTOR OPERATIONS. THE AREAS ARE WITHIN THE EXISTING SIDA LIMITS, BUT WILL BE ESTABLISHED AS NON-SIDA WORK AREAS. THE CONTRACTOR MAY USE THE AREAS TO STORE MATERIALS, TOOLS AND EQUIPMENT AND TO PARK CONSTRUCTION VEHICLES. ALL HAND TOOLS AND HARDWARE SHALL BE STORED IN LOCKABLE STORAGE UNITS, TOOL BINS OR VEHICLE STORAGE COMPARTMENTS WHEN NOT IN USE. ALL STORAGE ELEMENTS MUST BE LOCKED WHEN THE CONTRACTOR IS NOT WORKING ON THE SITE. ALL STORAGE ELEMENTS, EQUIPMENT AND VEHICLES SHALL BE SUBJECT TO SECURITY INSPECTION AT ANY TIME. PORTIONS OF THE AREA ARE SUBJECT TO JET WASH FROM AIRCRAFT OPERATIONS; NO LOOSE OR LIGHTWEIGHT ITEMS SUSCEPTIBLE TO MOVEMENT UNDER WIND OR JET WASH SHALL BE STORED WITHOUT APPROPRIATE ANCHORAGE.
19. LOOSE GRAVEL, MATERIALS, TOOLS AND HARDWARE WHICH CAN BE LIFTED/TRANSPORTED BY WIND, JET BLAST OR RAINWATER POSE A SERIOUS THREAT OF FOREIGN OBJECT DEBRIS (FOD) DAMAGE TO AIRCRAFT AND JET ENGINES. THE CONTRACTOR SHALL VIGILANTLY CONTROL SPILLAGE, STORAGE AND ANY OTHER FOD HAZARDS RESULTING FROM CONSTRUCTION OPERATIONS.
20. TOOLS, EQUIPMENT AND MATERIALS SHALL NOT BE LEFT UNATTENDED OR UNLOCKED IN THE WORK AREA.
21. THE CONTRACTOR SHALL INSTRUCT ALL PERSONNEL REGARDING AIRPORT SECURITY MATTERS, INCLUDING BADGE CHALLENGES AND THE NEED FOR VIGILANCE AND IMMEDIATE REPORTING OF UNAUTHORIZED OR SUSPICIOUS PERSONNEL, VEHICLES, EQUIPMENT, MATERIALS OR ACTIVITIES.
22. THE CONTRACTOR SHALL INSPECT TEMPORARY SECURITY LINES (FENCES, GATES, DOORS, WALLS, LOCKING SYSTEMS) ON A DAILY BASIS (AT THE START AND COMPLETION OF EACH WORK SHIFT), SHALL IMMEDIATELY REPORT ANY APPARENT SECURITY BREACHES, SHALL ASSIGN A BADGED GATEKEEPER TO ANY BREACHED AREAS DISCOVERED, AND SHALL PROMPTLY REPAIR ANY BREACHED AREAS DISCOVERED TO THE SATISFACTION OF AIRPORT MANAGEMENT.
23. VEHICLES, EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITHIN 10 FEET ON EITHER SIDE OF ANY EXISTING OR TEMPORARY FENCE LINE SERVING THE SIDA.
24. WEAPONS INCLUDING FIREARMS AND KNIVES ARE EXPRESSLY PROHIBITED. CUTTING TOOLS SHALL BE LIMITED TO THOSE REQUIRED FOR THE WORK AND SHALL BE SECURED IN LOCKED STORAGE ELEMENTS WHEN NOT IN USE.
25. TO THE MAXIMUM EXTENT PRACTICABLE, THE CONTRACTOR SHALL ESTABLISH PHYSICAL SEPARATION AND/OR TEMPORARY SIDA LIMITS, AS APPROPRIATE, TO ISOLATE CONSTRUCTION ACTIVITIES FROM ACTIVE AIRPORT OPERATIONS. IT IS UNDERSTOOD, HOWEVER, THAT A SIGNIFICANT AMOUNT OF CONSTRUCTION ACTIVITY MUST TAKE PLACE WITHIN ACTIVE SIDA AREAS. THE CONTRACTOR MUST STRICTLY ADHERE TO PERSONNEL ESCORT AND VEHICLE/EQUIPMENT INSPECTION REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING AND SECURING MATERIALS, TOOLS AND EQUIPMENT IN SIDA AREAS AND SHALL NOT LEAVE TOOLS, EQUIPMENT AND MATERIALS UNATTENDED UNLESS LOCKED AND/OR SECURED IN A MANNER ACCEPTABLE TO AIRPORT MANAGEMENT.
26. THE CONTRACTOR SHALL PERFORM ALL TEMPORARY WORK ASSOCIATED WITH TEMPORARY AND FINAL CHANGES IN SECURE AREA AND SIDA LIMITS AND ACCESS POINTS, INCLUDING ALL WORK NECESSARY TO ERECT, RELOCATE AND REMOVE TEMPORARY WALLS, FENCES, GATES AND DOORS, CHANGE LOCKS AND SIGNS, RELOCATE SECURITY DEVICES (ELECTRONIC ACCESS CARD READERS, KEYPADS, SURVEILLANCE CAMERAS, LIGHTING, ETC.) TO THE SATISFACTION OF AIRPORT MANAGEMENT.

AIRPORT SECURITY AREA DEFINITIONS AND ACCESS RESTRICTIONS

1. "SECURED AREA" – THE SECURED AREA IS THE AREA OF THE AIRPORT WHERE MEASURES ARE IN PLACE TO LIMIT ACCESS TO AUTHORIZED PERSONS. THE SECURED AREA BOUNDARY IS DELINEATED BY THE AIRPORT'S PERIMETER FENCE AND THE WALLS OF VARIOUS AIRPORT BUILDINGS, INCLUDING THE AIRLINE TERMINAL BUILDING. CONTRACTOR ACCESS INSIDE THE SECURED AREA REQUIRES A SIDA BADGE ISSUED BY THE AIRPORT OR ESCORT AT ALL TIMES BY AN INDIVIDUAL WITH AN AIRPORT ISSUED SIDA BADGE WITH ESCORT PRIVILEGES.
2. "AIR OPERATIONS AREA, AOA" – THE AIR OPERATIONS AREA (AOA) IS ANY AREA OF THE AIRPORT USED OR INTENDED TO BE USED FOR THE LANDING, TAKEOFF OR SURFACE MOVEMENT OF AIRCRAFT. THE AOA INCLUDES SUCH PAVED AND UNPAVED AREAS THAT ARE USED OR INTENDED TO BE USED FOR THE UNOBSTRUCTED MOVEMENT OF AIRCRAFT INCLUDING RUNWAYS, TAXIWAYS AND AIRCRAFT PARKING APRONS. FOR AIRPORT SECURITY PURPOSES, THIS TERM IS SOMETIMES USED TO MEAN THE SECURED AREA.
3. "SECURITY IDENTIFICATION DISPLAY AREA, SIDA" – THE SECURITY IDENTIFICATION DISPLAY AREA (SIDA) IS THE PORTION OF THE AIRPORT SECURED AREA WHERE SECURITY MEASURES ASSOCIATED WITH AIRLINE OPERATIONS ARE IN PLACE. THE SIDA INCLUDES THE ENTIRE AIR CARRIER APRON AND PORTIONS OF THE AIRLINE TERMINAL BUILDING. ACCESS INSIDE THE SIDA REQUIRES A SIDA BADGE ISSUED BY THE AIRPORT OR ESCORT AT ALL TIMES BY AN INDIVIDUAL WITH AN AIRPORT ISSUED SIDA BADGE WITH ESCORT PRIVILEGES. VEHICLES AND EQUIPMENT ENTERING THE SIDA MUST BE INSPECTED BY AUTHORIZED AIRPORT PERSONNEL PRIOR TO SUCH ENTRY.
4. "STERILE AREA" – THE STERILE AREA IS THAT PORTION OF THE TERMINAL BUILDING BEYOND THE TSA PASSENGER SCREENING STATION. ALL PASSENGERS AND CARRY-ON BAGS IN THE AREA HAVE PASSED THROUGH THE SCREENING STATION LOCALLY (DEPARTING PASSENGERS) OR ELSEWHERE (ARRIVING PASSENGERS). ACCESS INSIDE THE STERILE AREA REQUIRES A SIDA BADGE ISSUED BY THE AIRPORT OR ESCORT AT ALL TIMES BY AN INDIVIDUAL WITH AN AIRPORT ISSUED SIDA BADGE WITH ESCORT PRIVILEGES. CONSTRUCTION PERSONNEL SHALL NOT ENTER THE STERILE AREA EXCEPT AS SPECIFICALLY AUTHORIZED.
5. "NON-SIDA WORK AREA" – FOR THIS CONSTRUCTION PROJECT, NON-SIDA WORK AREAS WILL BE ESTABLISHED FOR THE PURPOSE OF SEGREGATING MAJOR CONSTRUCTION WORK AREAS FROM ACTIVE SIDA AIRLINE OPERATIONS AREAS. ACCESS INSIDE THE NON-SIDA WORK AREA REQUIRES A SIDA BADGE ISSUED BY THE AIRPORT OR ESCORT AT ALL TIMES BY AN INDIVIDUAL WITH AN AIRPORT ISSUED SIDA BADGE WITH ESCORT PRIVILEGES. VEHICLES AND EQUIPMENT ENTERING THE NON-SIDA WORK AREAS VIA THE DESIGNATED ACCESS ROUTE (PORTAL GATE) WILL NOT REQUIRE INSPECTION PRIOR TO SUCH ENTRY BUT SHALL BE STRICTLY CONTROLLED BY SPECIALLY TRAINED AND SIDA BADGED CONTRACTOR PERSONNEL. THE NON-SIDA WORK AREA WILL BE DELINEATED BY TEMPORARY FENCE LINES, GATES, AND PERMANENT AND TEMPORARY WALLS ALL PROVIDED AND MAINTAINED BY THE CONTRACTOR.
6. "MOVEMENT AREA" AND "NON-MOVEMENT AREA" – THE MOVEMENT AREA IS THE RUNWAY AND TAXIWAY NETWORK SUBJECT TO AIR TRAFFIC CONTROL (ATC). THE NON-MOVEMENT AREA IS ANY AREA WHERE AIRCRAFT OPERATIONS ARE NOT SUBJECT TO AIR TRAFFIC CONTROL AND INCLUDES THE AIR CARRIER APRON AND THE SEGMENT OF TAXIWAY F CONNECTING THE AIR CARRIER APRON TO THE AIRPORT PUBLIC SAFETY OFFICE (PSO). WHEN THE AIRPORT TRAFFIC CONTROL TOWER IS OPEN, ACCESS ONTO, ACROSS OR THROUGH ANY SEGMENT OF THE MOVEMENT AREA (TAXIWAY AND RUNWAY NETWORK) REQUIRES REAL TIME CLEARANCE FROM FAA ATC GROUND TRAFFIC CONTROL. FOR THIS CONTRACT, ACCESS INTO THE MOVEMENT AREA IS GENERALLY NOT REQUIRED. CONTRACTOR PERSONNEL AND VEHICLES ARE EXPRESSLY PROHIBITED FROM ENTERING THE MOVEMENT AREA (INCLUDING ON FOOT) UNLESS SPECIFICALLY ARRANGED WITH AIRPORT PSO STAFF. DRIVING WITHIN THE MOVEMENT REQUIRES AN AIRPORT SIDA BADGE WITH DRIVING TRAINING AND PRIVILEGES.
7. "UN-SECURED AREA" – THE UN-SECURED AREA INCLUDES THE AREAS OF THE TERMINAL BUILDING AND AIRPORT GROUNDS FOR WHICH AIRPORT SECURITY ACCESS CONTROL MEASURES ARE NOT IN PLACE ("OUTSIDE THE FENCE"). THIS INCLUDES THE ACCESS ROADS, AUTOMOBILE PARKING LOTS AND PUBLIC AREAS OF THE TERMINAL BUILDING. IT ALSO INCLUDES AREAS OF LIMITED ACCESS SUCH AS AIRPORT OFFICES, CONFERENCE ROOMS, TENANT OFFICES AND LOCKED STORAGE AND MAINTENANCE ROOMS. WHILE AIRPORT ACCESS CONTROL MEASURES ARE NOT IN PLACE FOR THE UN-SECURED AREA, SUCH SECURITY MEASURES AS VIDEO SURVEILLANCE, POLICE PATROLS, LOCK MANAGEMENT AND VIGILANCE BY AIRPORT, TSA AND TENANT PERSONNEL ARE IN PLACE. FOR THIS PROJECT, ALL CONSTRUCTION ACTIVITY, INCLUDING WORK IN UN-SECURED AREAS, WILL REQUIRE SIDA BADGED SUPERVISORY PERSONNEL AND ESCORTS (SEE ESCORT TABLE).

ESCORT TABLE

SECURITY ZONE	LOCATIONS	MAXIMUM NUMBER OF UNBADGED PERSONNEL PER SIDA BADGED ESCORT
SIDA	+ AIR CARRIER APRON PRIOR TO ESTABLISHING NON-SIDA WORK AREA + AIR CARRIER APRON OUTSIDE NON-SIDA WORK AREA + EXISTING BAGGAGE SCREENING ROOM (ALWAYS) + NEW BAGGAGE MAKEUP ROOM (AS SOON AS MADE OPERATIONAL)	5
NON-SIDA WORK AREA	+ APRON AREA WITHIN TEMPORARY FENCE LINES + BUILDING EXPANSION (ALL LEVELS) PRIOR TO BENEFICIAL OCCUPANCY	12
UN-SECURED AREA	+ AREAS OUTSIDE OF THE AIRPORT PERIMETER FENCE + TICKET LOBBY + EXISTING AIRLINE TICKET OFFICES + NEW AIRLINE TICKET OFFICES ONCE READY TO OCCUPY + EXISTING ROOF + UN-SECURED HALLWAYS AND SPACES ON LOWER LEVEL	18
△1 STERILE AREA *	+ ALL AREAS BEYOND PASSENGER SCREENING	5

* ALL TOOLS AND READILY PORTABLE MATERIALS MUST BE SECURED IN A LOCKED ENCLOSURE OR REMOVED FROM THE STERILE AREA WHEN NOT IN IMMEDIATE USE.

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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7.24.19

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CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
BNP

AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

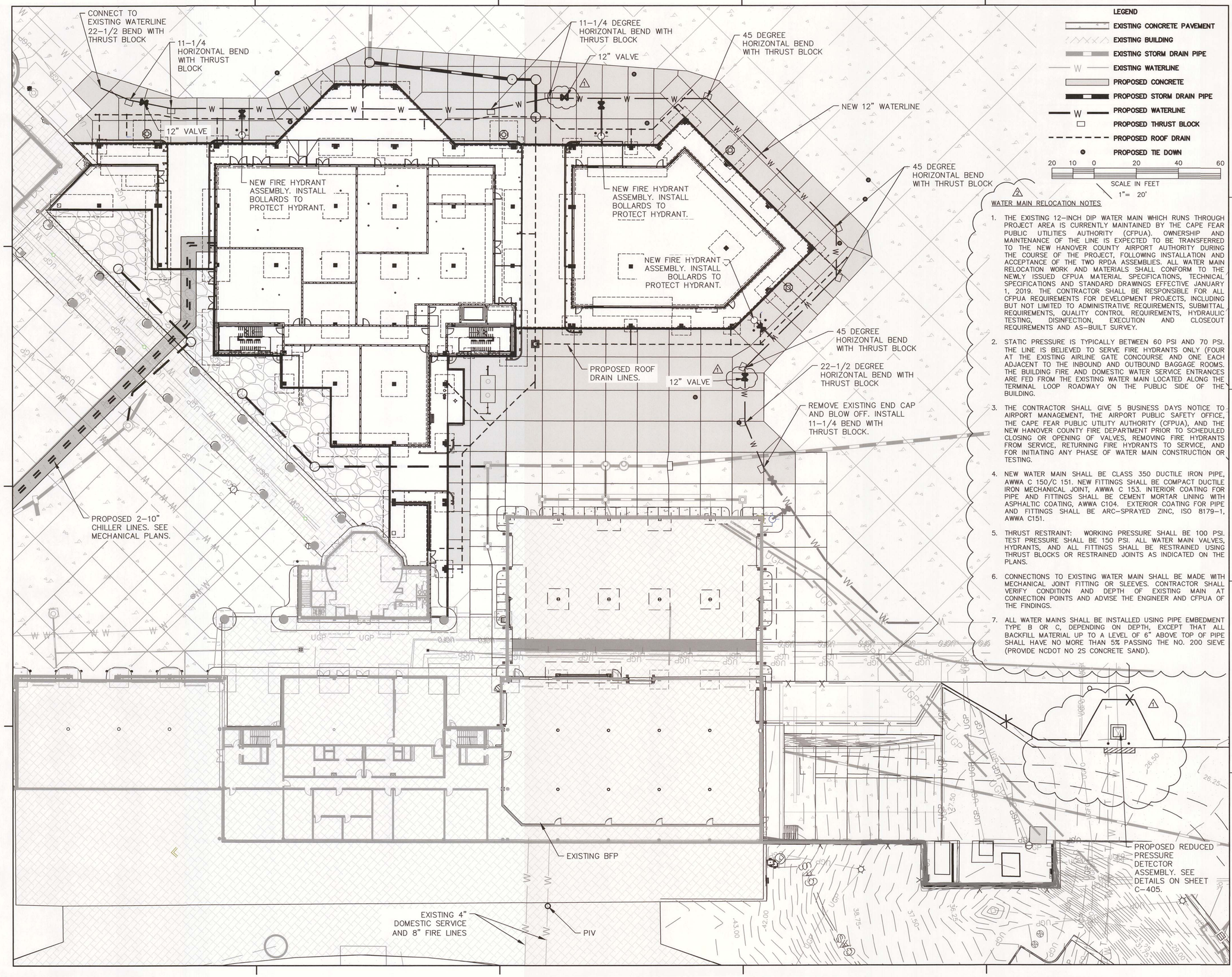
REVISIONS

△1 7/22/19 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PROJECT SAFETY PLAN NOTES

SHEET NUMBER
C-107



2 WATER MAIN RELOCATION NOTES

1. THE EXISTING 12-INCH DIP WATER MAIN WHICH RUNS THROUGH PROJECT AREA IS CURRENTLY MAINTAINED BY THE CAPE FEAR PUBLIC UTILITIES AUTHORITY (CFPUA). OWNERSHIP AND MAINTENANCE OF THE LINE IS EXPECTED TO BE TRANSFERRED TO THE NEW HANOVER COUNTY AIRPORT AUTHORITY DURING THE COURSE OF THE PROJECT, FOLLOWING INSTALLATION AND ACCEPTANCE OF THE TWO RPDA ASSEMBLIES. ALL WATER MAIN RELOCATION WORK AND MATERIALS SHALL CONFORM TO THE NEWLY ISSUED CFPUA MATERIAL SPECIFICATIONS, TECHNICAL SPECIFICATIONS AND STANDARD DRAWINGS EFFECTIVE JANUARY 1, 2019. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CFPUA REQUIREMENTS FOR DEVELOPMENT PROJECTS, INCLUDING BUT NOT LIMITED TO ADMINISTRATIVE REQUIREMENTS, SUBMITTAL REQUIREMENTS, QUALITY CONTROL REQUIREMENTS, HYDRAULIC TESTING, DISINFECTION, EXECUTION AND CLOSEOUT REQUIREMENTS AND AS-BUILT SURVEY.
2. STATIC PRESSURE IS TYPICALLY BETWEEN 60 PSI AND 70 PSI. THE LINE IS BELIEVED TO SERVE FIRE HYDRANTS ONLY (FOUR AT THE EXISTING AIRLINE GATE CONCOURSE AND ONE EACH ADJACENT TO THE INBOUND AND OUTBOUND BAGGAGE ROOMS. THE BUILDING FIRE AND DOMESTIC WATER SERVICE ENTRANCES ARE FED FROM THE EXISTING WATER MAIN LOCATED ALONG THE TERMINAL LOOP ROADWAY ON THE PUBLIC SIDE OF THE BUILDING.
3. THE CONTRACTOR SHALL GIVE 5 BUSINESS DAYS NOTICE TO AIRPORT MANAGEMENT, THE AIRPORT PUBLIC SAFETY OFFICE, THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA), AND THE NEW HANOVER COUNTY FIRE DEPARTMENT PRIOR TO SCHEDULED CLOSING OR OPENING OF VALVES, REMOVING FIRE HYDRANTS FROM SERVICE, RETURNING FIRE HYDRANTS TO SERVICE, AND FOR INITIATING ANY PHASE OF WATER MAIN CONSTRUCTION OR TESTING.
4. NEW WATER MAIN SHALL BE CLASS 350 DUCTILE IRON PIPE, AWWA C 150/C 151. NEW FITTINGS SHALL BE COMPACT DUCTILE IRON MECHANICAL JOINT, AWWA C 153. INTERIOR COATING FOR PIPE AND FITTINGS SHALL BE CEMENT MORTAR LINING WITH ASPHALTIC COATING, AWWA C104. EXTERIOR COATING FOR PIPE AND FITTINGS SHALL BE ARC-SPRAYED ZINC, ISO 8179-1, AWWA C151.
5. THRUST RESTRAINT: WORKING PRESSURE SHALL BE 100 PSI. TEST PRESSURE SHALL BE 150 PSI. ALL WATER MAIN VALVES, HYDRANTS, AND ALL FITTINGS SHALL BE RESTRAINED USING THRUST BLOCKS OR RESTRAINED JOINTS AS INDICATED ON THE PLANS.
6. CONNECTIONS TO EXISTING WATER MAIN SHALL BE MADE WITH MECHANICAL JOINT FITTING OR SLEEVES. CONTRACTOR SHALL VERIFY CONDITION AND DEPTH OF EXISTING MAIN AT CONNECTION POINTS AND ADVISE THE ENGINEER AND CFPUA OF THE FINDINGS.
7. ALL WATER MAINS SHALL BE INSTALLED USING PIPE EMBEDMENT TYPE B OR C, DEPENDING ON DEPTH, EXCEPT THAT ALL BACKFILL MATERIAL UP TO A LEVEL OF 6" ABOVE TOP OF PIPE SHALL HAVE NO MORE THAN 5% PASSING THE NO. 200 SIEVE (PROVIDE NCDOT NO 2S CONCRETE SAND).

TRUE NORTH

REVISIONS

1	7/17/19	AD-02
2	7/22/19	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PROPOSED WATERLINE - SCHEDULE 1

SHEET NUMBER
C-401

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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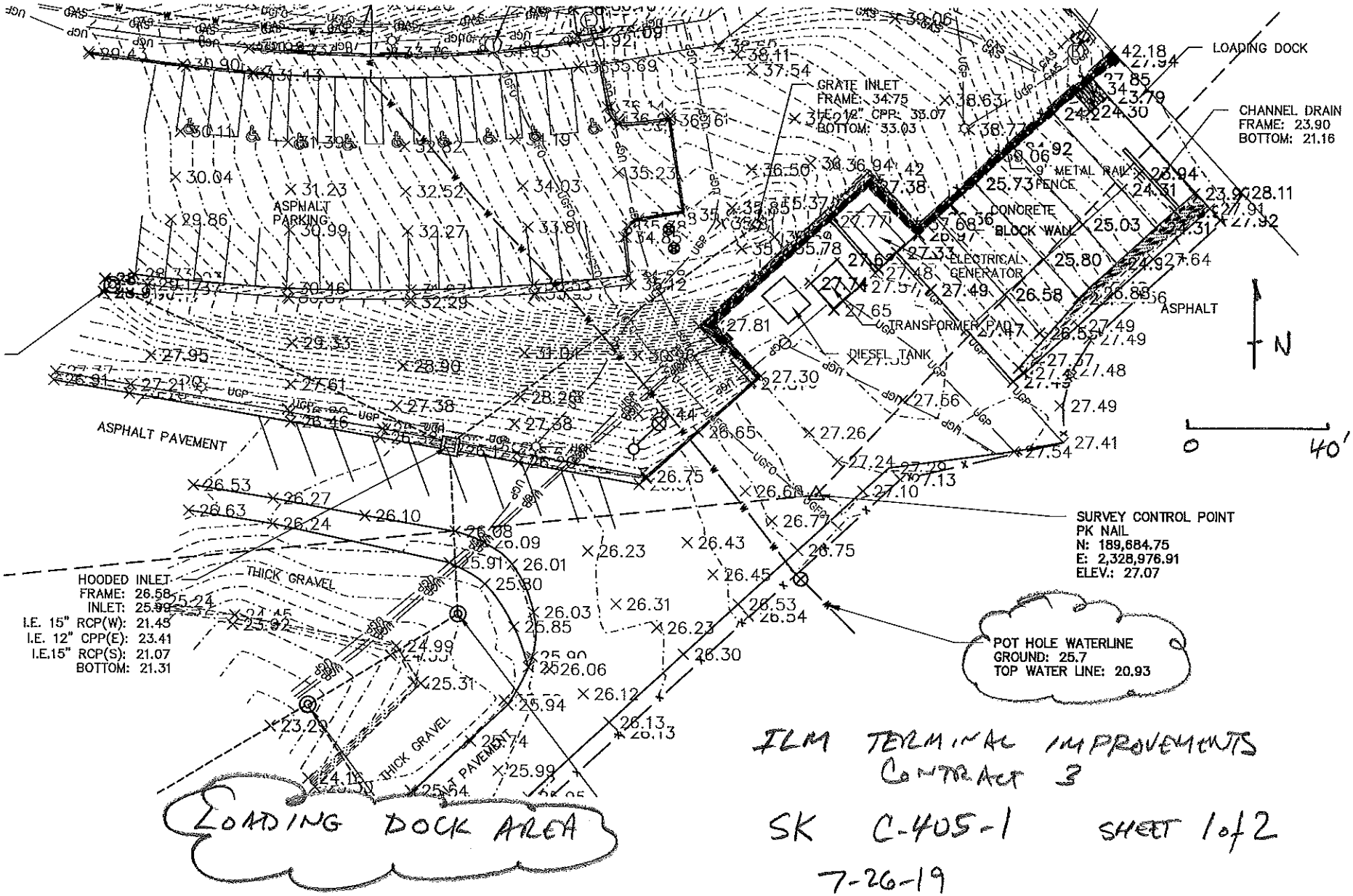
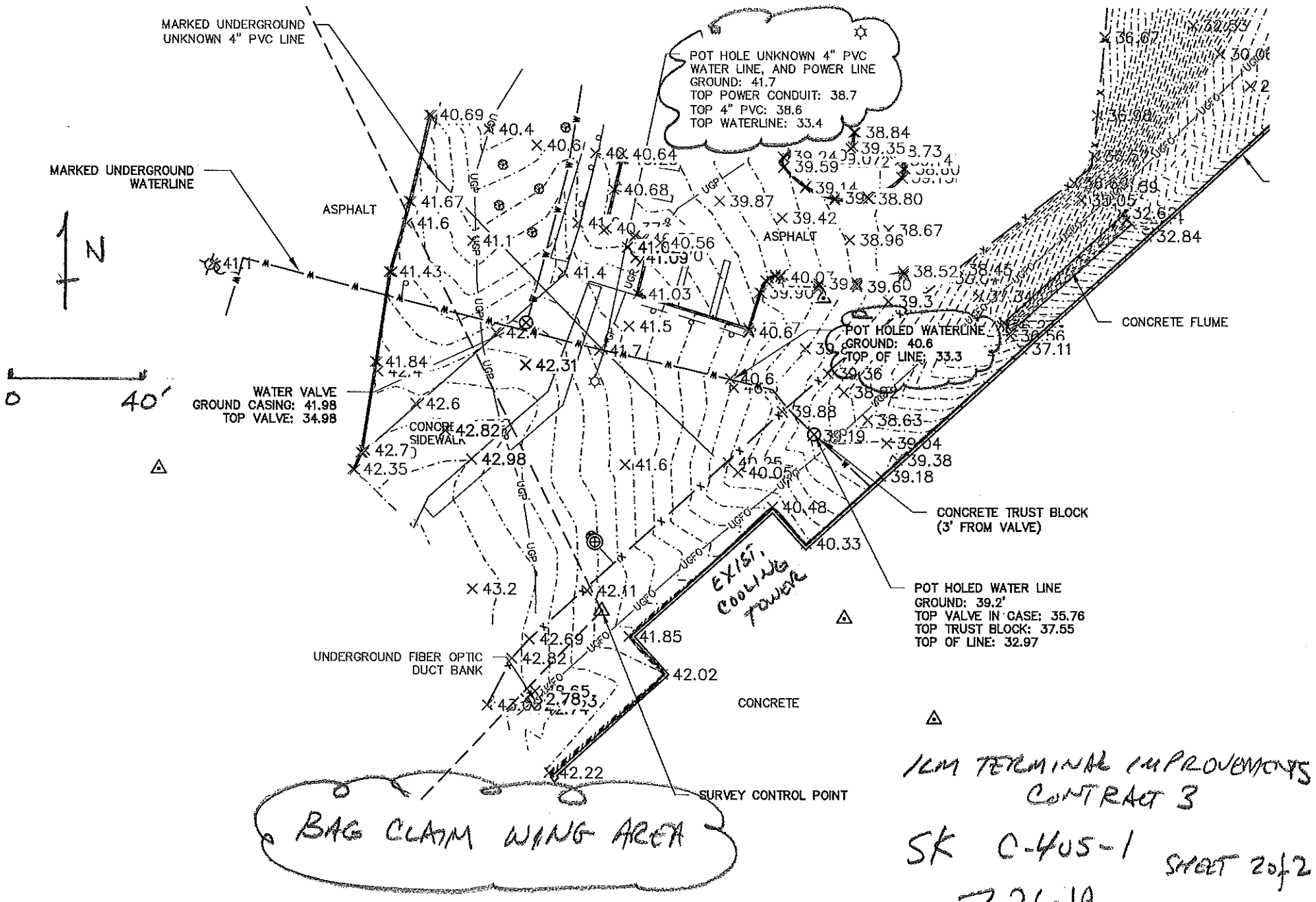


ILM TERMINAL IMPROVEMENTS
CONTRACT 3

SK C-405-1 SHEET 1 of 2

7-26-19



ICM TERMINAL IMPROVEMENTS
CONTRACT 3

SK C-405-1 SHEET 2 of 2

7-26-19

Statement of Special Inspections

The following Information is being submitted In accordance with the Special Inspection provisions of the 2017 Ohio Building Code. Attached is the Schedule of Special Inspections (SSI) required for this project. This completed form is required to be placed on the drawings for plan review. After permit issuance, a listing of the Special Inspection Firms (SIF) and the Designated Special Inspectors (DSI) for each Inspection type will be attached to this form prior to scheduling the Pre-Construction Meeting with the governing authority. No work is permitted to be performed prior to the Special Inspections Pre-Construction Meeting..

The DSI is responsible for verifying all information on each document prior to signing/sealing
The DSI is responsible for verifying each document is the correct document
The DSI is responsible for correcting any documents that contain errors
The DSI is responsible for verifying all ASIs maintain current certifications during the course of the project, as failure to maintain current certifications may result in a voided document. At the conclusion of each individual Special Inspection type, the DSI will complete a Final Report

The Special Inspection program outlined herein, does not relieve the Contractor or any other entity of any contractual duties, including quality control, quality assurance, or safety. The Contractor is solely responsible for construction means, methods, and job site safety.

Required Certifications for each Inspection Type

Each Inspector performing the Inspection type to submit certification to the engineer of record prior to performing the Inspection.

Verification of Soils
- Current NICET Level II certification In Geotechnical Engineering Technology/Construction; or
- Current NICET Level II soils certificate In Construction Materials Testing; or
- Current ICC Soils Special Inspector certificate; or
- Licensed Geologist with one year related experience; or
- Engineer-In-Training (EIT) with one year related experience; or
- Geologist-in-Training (GIT) with one year related experience

Excavation and Filling
- Current NICET Level II certificate in Geotechnical Engineering Technology/Construction; or
- Current NICET Level II soils certificate In Construction Materials Testing; or
- Current ICC Soils Special Inspector certificate; or
- Licensed Geologist with one year related experience; or
- Engineer-In-Training (EIT) with one year related experience; or
- Geologist-in-Training (GIT) with one year related experience

Reinforced Concrete
- Current ICC ReInforced Concrete Special Inspector certificate; or
- ACI Concrete Construction Special Inspector certificate; or
- Engineer-In-Training (EIT) with one year related experience

Inspection of Pre-Cast Concrete Fabricators
- Pre-Cast/Pre-Stressed Concrete Institute (PCI) Quality Control TechnIcIan/Inspector Level II certificate

Inspection of Structural Steel Fabricators
- Current AWS D1.1 Certified Welding Inspector; or
- Current ICC Structural Steel and Welding certificate plus one year of related experience; or
- Current NDT Level II (along with in-house level III trainer's certificate) or Level III

Structural Masonry
- Current ICC Structural Masonry certificate and one year of related experience; or
- Engineer-In-TraInIng (EIT) with one year related experience

Welding
- Current AWS D1.1 Certified Welding Inspector; or
- Current ICC Structural Steel and Welding certifIcate plus one year of related experience; or
- Current NDT Level II (along with in-house level III trainer's certificate) or Level III

High-Strength Bolting and Steel Frame Inspection
- Current ICC Structural Steel & Bolting certificate plus one year of related experience; or
- Engineer-In-TraInIng (EIT) with one year related experience

Seismic Resistance
- Professional Engineer or Architect registered in the State of OhIo; or

SPECIAL INSPECTIONS REPORTING REQUIREMENTS:

1. Each Special Inspector to leave a written copy of their daily report on site, initialed by the contractor, and entered in the daily inspection log maintained by the General Contractor. Any corrections or discrepancies will be reviewed by the Special Inspector and the General Contractor prior to leaving site.
2. Each daily report must describe the area of the inspection, the structural items inspected, a brief description of what was built, and if it was In conformance with the construction documents.
3. Correction items not corrected before the special inspector leaves the site but do not require input from the design team will require a separate correction notice which will be given to the General Contractor and included in the monthly report. This is to be a separate report from the daily report. The correction will be added to the correction log.
4. Items which are discrepancies and require input from the design team will require In a separate discrepancy notice given to the General Contractor, Engineer of Record, and Architect of Record. This is to be a separate report from the daily report. The discrepancy will be added to the discrepancy log.
5. All corrections and discrepancy items on the logs will remaIn on the log until resolved. When the items are resolved the log or the notices are to indicate how and when the Item was resolved.
6. A monthly report will be provided which will include the field reports for that month, the corrections, correction log, discrepancy, and the discrepancy log.
7. Bound monthly report to be submitted to the General Contractor, Engineer of Record, Architect of Record, Owner and Building official within the first week of the month.
8. Upon completion of the construction of the items specified in the Statement of Special Inspections, completion of all material tests, and correction of all open discrepancies, the Special Inspector shall submit a signed and sealed Final Statement of Special Inspections stating that the construction has been completed and that all discovered discrepancies have been resolved.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF VERIFICATION OF SOILS (Refer to IBC Table 1705.6)

Check if required	Inspection Task	C	P	Standard	Notes/Comments
☒	Verify materials below shallow foundation are adequate to achieve the design bearing capacity	☐	☒	Table 1705.6, #1	
☒	Perform classification and testing of compacted fill materials	☐	☒	Table 1705.6, #3	

REQUIRED SPECIAL INSPECTIONS AND TESTS OF EXCAVATION AND FILL (Refer to IBC Table 1705.6)

Check if required	Inspection Task	C	P	Standard	Notes/Comments
☒	Verify excavations are extended to proper depth and have reached proper material	☐	☒	Table 1705.6, #2	
☒	Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill	☒	☐	Table 1705.6, #4	
☒	Prior to placement of compacted fill, observe sub-grade and verify that site has been prepared properly	☐	☒	Table 1705.6, #5	

REQUIRED SPECIAL INSPECTIONS AND TESTS OF INSPECTION OF STRUCTURAL STEEL FABRICATORS

Check if required	Inspection Task	C	P	Standard	Notes/Comments
☒	Fabricators shall be approved In accordance with the requirements of IBC Section 1704.2.5 and AWS D1.1	☐	☒	AWSD1.1-15 IBC 1704.2.5	

REQUIRED SPECIAL INSPECTIONS AND TESTS OF WIND RESISTANCE

Check if required	Inspection Task	C	P	Standard	Notes/Comments
☒	Wind-resisting components	☐	☒	NCBC 1705.11.3	
☒	1. Roof covering, roof deck and roof framing connections.	☐	☒		
☒	2. Exterior wall covering and wall connections to roof and floor diaphragms and framing.	☐	☒		

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SPECIAL CASES

Check if required	Inspection Task	C	P	Standard	Notes/Comments
☒	Fire Resistant Penetration and Joints	☐	☒	IBC 1705.17	
☐	Special Events (as decided/required by Code Enforcement)	☐	☐	Per Governing Authority Policy	
☐	Retaining Walls	☐	☐	IBC 1807.2	See previous sections

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (TABLE 1705.3)

Check if required	TYPE	C	P	REFERENCED STANDARD	IBC REFERENCE
☒	Inspect of reInforcement, including prestressing tendons, and verify placement	☐	☒	ACI 318: Ch.20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
☒	Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706;	☐	☒	AWS D1.4; ACI 318:26.6.4	
	b. Inspect single-pass fillet welds, maximum 5/16"; and	☐	☒		
	c. Inspect all other welds	☒	☐		
☒	Inspect anchors cast In concrete	☐	☒	ACI 318: 17.8.2	
☒	Inspect anchors post-installed in hardened concrete members: a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	☒	☐	ACI 318: 17.8.2.4	
	b. Mechanical anchors and adhesive anchors not defined in 4.a.	☐	☒	ACI 318: 17.8.2	
☒	Verifying use of required design mix	☐	☒	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
☒	Prior to concrete placement, fabricate specimens for strength test, perform slump and air content tests, and determine the temperature of the concrete	☒	☐	ASTM C172; ASTM C31; ACI 318: 26.4, 26.12	1908.10
☒	Inspection of concrete and shotcrete placement for proper application techniques	☒	☐	ACI 318: 26.5	1908.6, 1980.7, 1908.8
☒	Verify maintenance of specified curing temperature and techniques	☐	☒	ACI 318: 26.5.3-26.5.5	1908.9
☐	Inspect prestressed concrete for: a. Application of pre-stressing forces; and	☒	☐	ACI 318: 26.10	
	b. Grouting of bonded pre-stressing tendons	☒	☐		
☐	Inspect erection of precast concrete members	☐	☒	ACI 318: 26.8	
☐	Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs	☐	☒	ACI 318: 26.11.2	
☒	Inspect formwork for shape, location and dimensions of the concrete members formed	☐	☒	ACI 318: 26.11.1.2(b)	

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL MASONRY LEVEL C QUALITY ASSURANCE

MINIMUM TEST
Verification of f'm and f'aac in accordance with Article 1.4 B prior to construction and for every 5,000 square feet during construction
Verification of proportIons of materials in premixed or preblended mortar, prestressing grout, and grout other than self-consolidation grout as delivered to the project site
Verification of slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Article 1.5 B.1.B.3 for self-consolidation grout

MINIMUM SPECIAL INSPECTIONS

INSPECTION TASK	FREQUENCY C	FREQUENCY P	REFERENCE FOR CRITERIA: TMS 402/ ACI 530/ ASCE 5	REFERENCE FOR CRITERIA: TMS 602 ACI 530.1/ ASCE 6
1. Verify compliance with the approved submittals.	☐	☒		Art. 1.5
2. Verify that the following are in compliance:				
a. Proportions of site mixed mortar, grout and pre-stressing grout for bonded tendons	☐	☒		Art. 2.1, 2.6 A, 2.6 B, 2.6 C, 2.4 G.1.b
b. Grade, type, and size of reInforcement and anchor bolts, and prestessing tendons and anchorages.	☐	☒	Sec. 6.1	Art. 2.4, 3.4
c. Placement of masonry units and construction of mortar joints	☐	☒		Art. 3.3 B
d. Placement of reinforcement, connectors, and prestressing tendons and anchorages	☒	☐	Sec. 6.1, 6.2.1, 6.2.6, 6.2.7	Art. 3.2 E, 3.4, 3.6 A
e. Grout space prior to grout	☒	☐		Art. 3.2 D, 3.2 F
f. Placement of grout and prestessing grout for bonded tendons	☒	☐		Art. 3.5, 3.6 C
g. Size and location of structural elements	☐	☒		Art. 3.3 F
h. Type, size and location of anchors IncludIng other details of anchorage of masonry to structural members, frames, or other construction	☒	☐	Sec. 1.2.1(e), 6.1.4.3, 6.2.1	
I. Welding of reInforcement	☒	☐	Sec. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)	
j. Preparation, construction, and protection of masonry during cold weather (temperature below 40f (4.4C)) or hot weather (temperature above 90f (32.2C))	☐	☒		Art. 1.8 C, 1.8 D
k. Application and measurement of pre-stressing force	☐	☐		Art. 3.6 B
l. Placement of ACC masonry units and construction of thin-bed mortar joints	☐	☐		Art. 3.3 B.9, 3.3 F.1.b
m. Properties of thIn-bed mortar for AAC masonry	☐	☐		Art. 2.1 C.1
3. Observe preparation of grout specimens, mortar specimens, and/or prisms	☒	☐		Art. 1.4 B.2.B.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (TABLE 1705.2.3)

TYPE	C	P	REFERENCED STANDARD
1. Installation of open-web steel joists and joist girders.			
a. End connections - welding or diagonal	☐	☒	SJI specifIcations listed in Section 2207.1.
b. Bridging - horizontal or diagonal			
1. Standard bridging	☐	☒	SJI specifications listed in Section 2207.1.
2. Bridging that differs from the SJI specifications listed in Section 2207.1.	☐	☒	

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3 7/30/19 AD-03

DATE 07/15/19
PROJECT NUMBER 9202-000
SHEET TITLE

STATEMENT OF SPECIAL INSPECTIONS

SHEET NUMBER
S0-003

QUALITY ASSURANCE (QA) FOR INSTALLATION OF STEEL DECK
Appendix 1. Tables of Inspection or Execution Tasks

"Observe" shall mean to inspect these items on an intermittent basis. Operations need not be delayed pending these inspections. Frequency of observations shall be adequate to confirm that the work has been performed in accordance with the applicable documents. In the event that observations determine that the materials and/or workmanship are not in conformance with the applicable documents, additional inspections shall be performed to determine the extent of non-conformance.

"Perform" shall mean to perform these tasks prior to final acceptance for each item or element.

Within the listed tasks, "Document" shall mean the Inspector shall prepare reports or other appropriate written documentation indicating that the work has or has not been performed in accordance with the construction documents.

Table 1.1. Inspection or Execution Tasks Prior to Deck Placement

	TASK	QA
A	Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness	Perform
B	Document acceptance or rejection of deck and deck accessories	Perform

Table 1.2. Inspection or Execution Tasks After Deck Placement

	TASK	QA
A	Verify compliance of deck and all deck accessories installation with construction documents	Perform
B	Verify deck materials are represented by the mill certifications that comply with the construction documents	Perform
C	Document acceptance or rejection of installation of deck and deck accessories	Perform

Table 1.3. Inspection or Execution Tasks Prior to Welding

	TASK	QA
A	Welding procedure specifications (WPS) available	Observe
B	Manufacturer certifications for welding consumables available	Observe
C	Material identification (type/grade)	Observe
D	Check welding equipment	Observe

Table 1.4. Inspection or Execution Tasks During Welding

	TASK	QA
A	Use of qualified welders	Observe
B	Control and handling of welding consumables	Observe
C	Environment conditions (wind speed, moisture, temperature)	Observe
D	WPS followed	Observe

Table 1.5. Inspection or Execution Tasks After Welding

	TASK	QA
A	Verify size and location of welds, including support, sidelap, and perimeter welds.	Perform
B	Welds meet visual acceptance criteria	Perform
C	Verify repair activities	Perform
D	Document acceptance or rejection of welds	Perform

Table 1.6. Inspection or Execution Tasks Prior to Mechanical Fastening

	TASK	QA
A	Manufacturer installation instructions available for mechanical fasteners	Observe
B	Proper tools available for fastener installation	Observe
C	Proper storage for mechanical fasteners	Observe

Table 1.7. Inspection or Execution Tasks During Mechanical Fastening

	TASK	QA
A	Fasteners are positioned as required	Observe
B	Fasteners are installed in accordance with manufacturer's instructions	Observe

Table 1.8. Inspection or Execution Tasks After Mechanical Fastening

	TASK	QA
A	Check spacing, type, and installation of support fasteners	Perform
B	Check spacing, type, and installation of sidelap fasteners	Perform
C	Check spacing, type, and installation of perimeter fasteners	Perform
D	Verify repair activities	Perform
E	Document acceptance or rejection of mechanical fasteners	Perform

REQUIRED SPECIAL INSPECTIONS AND TEST OF WELDING

TABLE N5.4-1
Inspection Tasks Prior to Welding

Inspection Tasks Prior to Welding	QA
Welding procedure specifications (WPSs) available	Perform
Manufacturer certifications for welding consumables available	Perform
Material identification (type/grade)	Observe
Welder identification system[1]	Observe
Fit-up of groove welds (including joint geometry) • Joint preparation • Dimensions (alignment, root opening, root face, bevel) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location) • Backing type and fit (if applicable)	Observe
Configuration and finish of access holes	Observe
Fit-up of fillet welds • Dimensions (alignment, gaps, at root) • Cleanliness (condition of steel surfaces) • tacking (tack weld quality and location)	Observe
Check welding equipment	

[1] The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.

TABLE N5.4-2
Inspection Tasks During Welding

Inspection Tasks During Welding	QA
Use of qualified welders	Observe
Control and handling of welding consumable • Packaging • Exposure control	Observe
No welding over cracked tack welds	Observe
Environmental conditions • Wind speed within limits • Precipitation and temperature	Observe
WPS followed • Settings on welding equipment • Travel speed • Selected welding materials • Shielding gas type/flow rate • Preheat applied • Interpass temperature maintained (min./max.) • Proper position (F, V, H, OH)	Observe
Welding techniques • Interpass and final cleaning • Each pass within profile limitations • Each pass meets quality requirements	Observe

TABLE N5.4-3
Inspection Tasks After Welding

Inspection Tasks After Welding	QA
Welds Cleaned	Observe
Size, length and location of welds	Perform
Welds meet visual acceptance criteria • Crack prohibition • Weld/base-metal fusion • Crater cross section • Weld profiles • Weld size • Undercut • Porosity	Perform
Arc strikes	Perform
k-area[1]	Perform
Backing removed and weld tabs removed (if required)	Perform
Repair activities	Perform
Document acceptance or rejection of welded joint or member	Perform

[1] When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks with 3 in. of the weld.

5. Nondestructive Testing of Welded Joints

5a. Procedures
Ultrasonic testing (UT), magnetic particle testing (MT), penetrant testing (PT) and radiographic testing (RT), where required, shall be performed by QA in accordance with AWS D1.1/D1.1M for statically loaded structures, unless otherwise designated in the design drawings or project specifications.

5b. CJP Groove Weld NDT
For structures in Risk Category III of IV of Table 1-1, Risk Category of Buildings and Other Structures for Flood, Wind, Snow, Earthquake and Ice Loads, of ASCE/SEI 7, Minimum Design Loads for Buildings and Other Structures, UT shall be performed by QA on all CJP groove welds subject to transversely applied tension loading in butt, T- and corner joints, in materials $\frac{5}{16}$ in. thick or greater. For structures in Risk Category II, UT shall be performed by QA on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading, in materials $\frac{5}{16}$ in. thick or greater.

REQUIRED SPECIAL INSPECTIONS AND TEST OF BOLTING

TABLE N5.6-1
Inspection Tasks Prior to Bolting

Inspection Tasks Prior to Bolting	QA
Manufacturer's certifications available for fasteners materials	Perform
Fasteners marked in accordance with ASTM requirements	Observe
Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded form shear plane)	Observe
Proper bolting procedure selected for joint detail	Observe
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	Observe
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	Observe
Proper storage provided for blots, nuts, washers and other fastener components	Observe

TABLE N5.6-2
Inspection Tasks During Bolting

Inspection Tasks During Bolting	QA
Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required	Observe
Joint brought to the snug-tight condition prior to the pretensioning operation	Observe
Fastener component not turned by the wrench prevented from rotating	Observe
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically form the most rigid point toward the free edges	Observe

TABLE N5.6-2
Inspection Tasks After Bolting

Inspection Tasks After Bolting	QA
Document acceptance or rejection of bolted connections	Perform

TABLE N6.1
Inspection of Steel Elements of Composite Construction Prior to Concrete Placement

Inspection of Steel Elements of Composite Construction Prior to Concrete Placement	QA
Placement and installation of steel deck	Perform
Placement and installation of steel headed stud anchors	Perform
Document acceptance or rejection of steel elements	Perform

N7. APPROVED FABRICATORS AND ERECTORS
Quality assurance (QA) inspections, except nondestructive testing (NDT), may be waived when the work is performed in a fabricating shop or by by an erector approved by the authority having jurisdiction (AHJ) to perform the work without QA. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. When the fabricator performs the NDT, the QA agency shall review the fabricator's NDT reports.

N8. NONCONFORMING MATERIAL AND WORKMANSHIP
Identification and rejection of material or workmanship that is not in conformance with the construction documents shall be permitted at any time during the progress of the work. However, this provision shall not relieve the owner or he inspector of the obligation for timely, in-sequence inspections. Nonconforming material and workmanship shall be brought to the immediate attention of the fabricator or erector, as applicable.

Nonconforming material or workmanship shall be brought into conformance, or made suitable for its intended purpose as determined by the engineer of record.

Concurrent with the submittal of such reports to the AHJ, EOR or owner, the QA agency shall submit to the fabricator and erector:
1. Nonconformance reports
2. Reports of repair, replacement or acceptance of nonconforming items

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PROJECT NUMBER 9202-000
SHEET TITLE

STATEMENT OF SPECIAL INSPECTIONS

SHEET NUMBER
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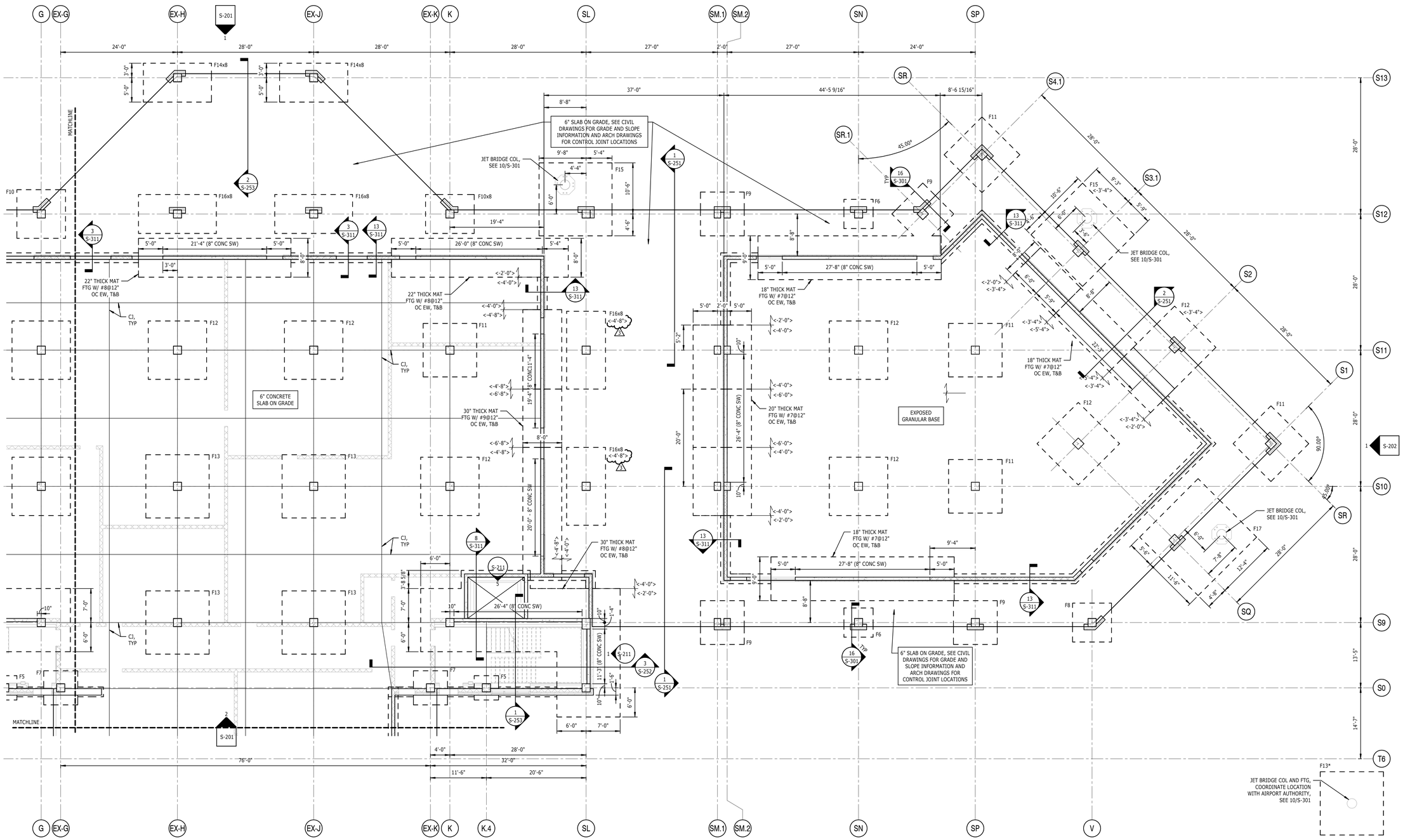

FOUNDATION PLAN SCHEDULE 1 ZONE 2

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. SEE CIVIL DRAWINGS FOR FINISHED FLOOR ELEVATION, UNO. REFERENCE ELEVATION 0'-0".
3. [No] INDICATES DEPRESSED OR RAISED SLAB ELEVATION, SEE PLAN.
4. TOP OF FOOTING 2'-0" BELOW FINISHED FLOOR ELEVATION, UNO. <No> INDICATES TOP OF FOOTING ELEVATION, SEE PLAN.
5. ⊣⊢ INDICATES STEP IN WALL FOOTING, SEE 9/S-301.
6. "F#" INDICATES FOOTING TYPE, SEE 7/S-301.
7. FOR STEEL COLUMN SCHEDULE, SEE 1/S-501.
8. FOR CONCRETE COLUMN SCHEDULE, SEE 1/S-323.
9. "CONC SW" INDICATES CONCRETE SHEARWALL, SEE ___ FOR SCHEDULE.
10. FOR TYPICAL SLAB CONSTRUCTION DETAILS, SEE 1/S-301.

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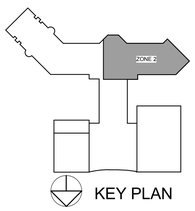


KEY PLAN

REVISIONS

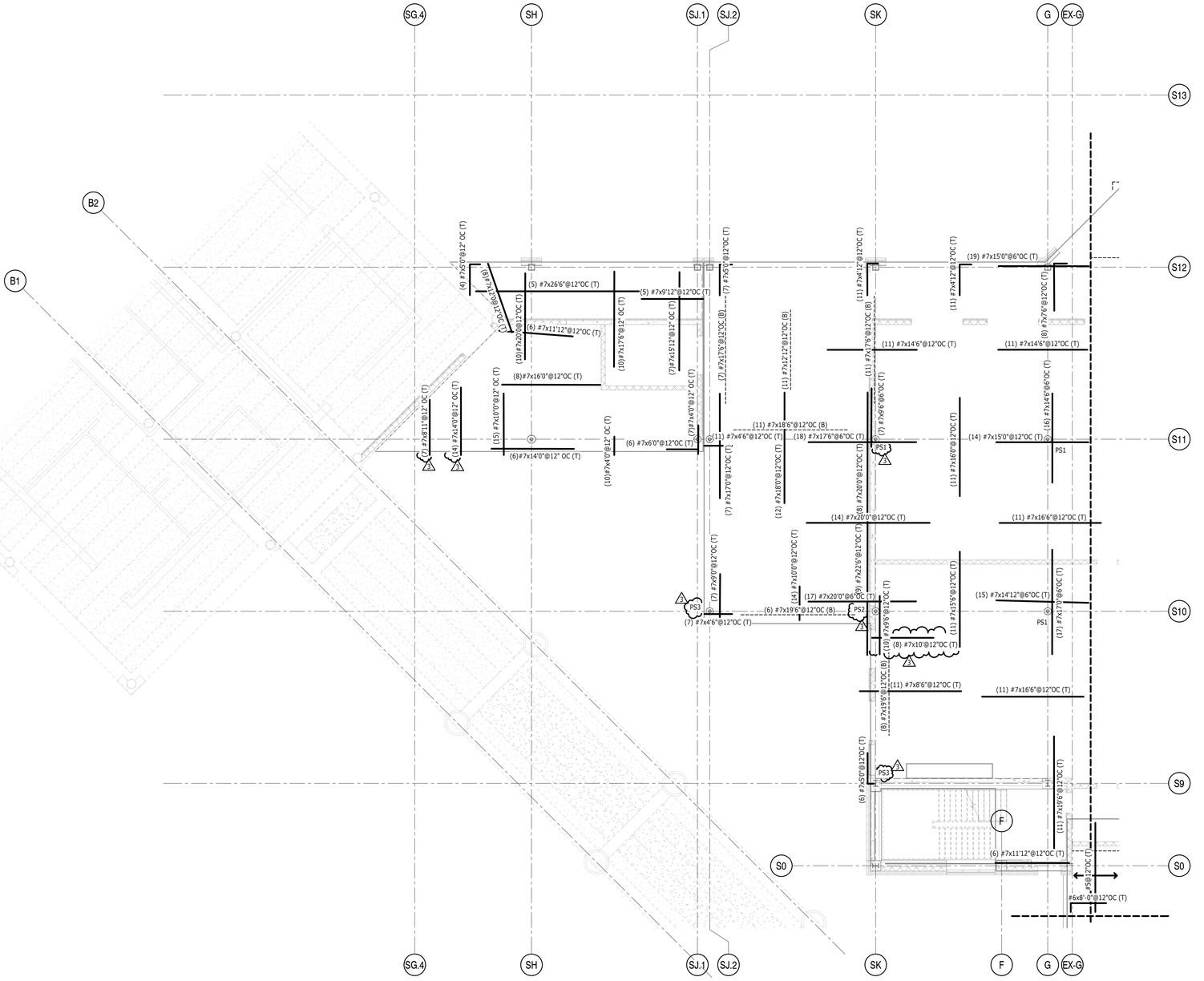
3 7/30/19 AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL FOUNDATION PLAN SCHEDULE 1 ZONE 2

SHEET NUMBER

S1-102



1 / S1-124 BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 1

1/8" = 1'-0"

REBAR PLAN NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001 AND S-002.
2. FINISH FLOOR ELEVATION +13'-0" ABOVE REFERNCE FINISH FLOOR ELEVATION, UNLESS NOTED OTHERWISE.
3. CONCRETE ELEVATED SLABS SHALL BE TWO WAY FLAT PLATE CONCRETE SLAB. SEE PLAN FOR SLAB THICKNESS. TOP OF SLAB SHALL BE SLOPED WHERE NOTED ON ARCHITECTURAL DRAWINGS.
4. ALL OPENINGS IN CONCRETE SLAB MUST BE LOCATED AND BLOCKED OUT PRIOR TO CONCRETE BEING PLACED. NO CORE DRILLING IS PREMITTED WITHOUT CONSENT OF THE ENGINEER OF RECORD. SEE 7/S-322 FOR REINFORCING AT OPENINGS. .
5. "CONC SW" INDICATES CONCETE SHEAR WALL.
6. SEE ARCHITECTURAL DRAWINGS FOR PRECISE EDGE OF SLAB DIMENSIONS. ARCHITECTURAL DRAWINGS GOVERN ALL DIMENSIONS.
7. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS AND SLAB SLOPES.
8. "PS#" INDICATES STUD RAILS, STUD RAILS ARE REQUIRED TO BEGIN AT FACE OF COLUMN, SEE 7/S-321.
9. PROVIDE ADDITONAL STEEL AT ALL RE-ENTRAINT CORNERS PER DETAIL 4/S-322.
10. "CB" INDICATES CONCRETE BEAM, SEE 6/S-321.
11. REINFORCING THAT TERMINATES AT THE INTERFACE BETWEEN SCHEDULE 1 AND SCHEDULE 2 SHALL HAVE THREADED COUPLERS AT THE ENDS OF SCHEDULE 1 REINFORCING. SCHEDULE 2 REINFORCING SHALL BE THREADED TO CONNECT TO THE COUPLERS INSTALLED IN SCHEDULE 1. THIS IS TYPICAL AT THE SLAB AND BEAMS ALONG THIS JOINT.
12. " ⌐ " INDICATES REINFORCING STEEL WITH TYPICAL 90 OR 180 DEGREE HOOKS. LENGTHS INDICATED ON PLAN DO NOT INCLUDE HOOKS.

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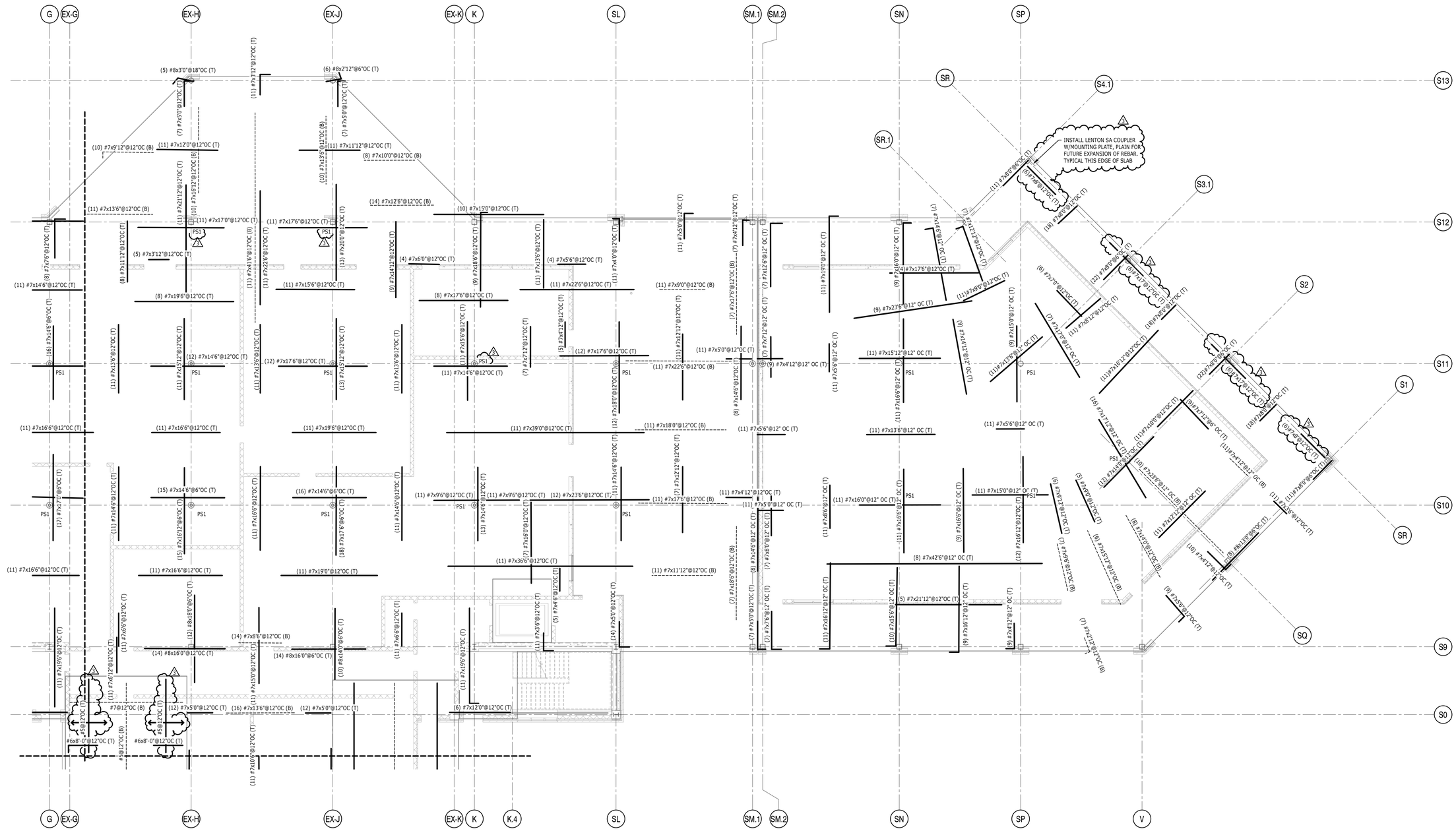
SHEET TITLE

PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 1

SHEET NUMBER

S1-124



1 S1-125 BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 2

1/8" = 1'-0"

REBAR PLAN NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001 AND S-002.
2. FINISH FLOOR ELEVATION +13'-0" ABOVE REFERNCE FINISH FLOOR ELEVATION, UNLESS NOTED OTHERWISE.
3. CONCRETE ELEVATED SLABS SHALL BE TWO WAY FLAT PLATE CONCRETE SLAB. SEE PLAN FOR SLAB THICKNESS. TOP OF SLAB SHALL BE SLOPED WHERE NOTED ON ARCHITECTURAL DRAWINGS.
4. ALL OPENINGS IN CONCRETE SLAB MUST BE LOCATED AND BLOCKED OUT PRIOR TO CONCRETE BEING PLACED. NO CORE DRILLING IS PREMITTED WITHOUT CONSENT OF THE ENGINEER OF RECORD. SEE 7/S-322 FOR REINFORCING AT OPENINGS. .
5. "CONC SW" INDICATES CONCETE SHEAR WALL.
6. SEE ARCHITECTURAL DRAWINGS FOR PRECISE EDGE OF SLAB DIMENSIONS. ARCHITECTURAL DRAWINGS GOVERN ALL DIMENSIONS.
7. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS AND SLAB SLOPES.
8. "PS#" INDICATES STUD RAILS, STUD RAILS ARE REQUIRED TO BEGIN AT FACE OF COLUMN, SEE 7/S-321.
9. PROVIDE ADDITONAL STEEL AT ALL RE-ENTRAINT CORNERS PER DETAIL 4/S-322.
10. "CB" INDICATES CONCRETE BEAM, SEE 6/S-321.
11. REINFORCING THAT TERMINATES AT THE INTERFACE BETWEEN SCHEDULE 1 AND SCHEDULE 2 SHALL HAVE THREADED COUPLERS AT THE ENDS OF SCHEDULE 1 REINFORCING. SCHEDULE 2 REINFORCING SHALL BE THREADED TO CONNECT TO THE COUPLERS INSTALLED IN SCHEDULE 1. THIS IS TYPICAL AT THE SLAB AND BEAMS ALONG THIS JOINT.
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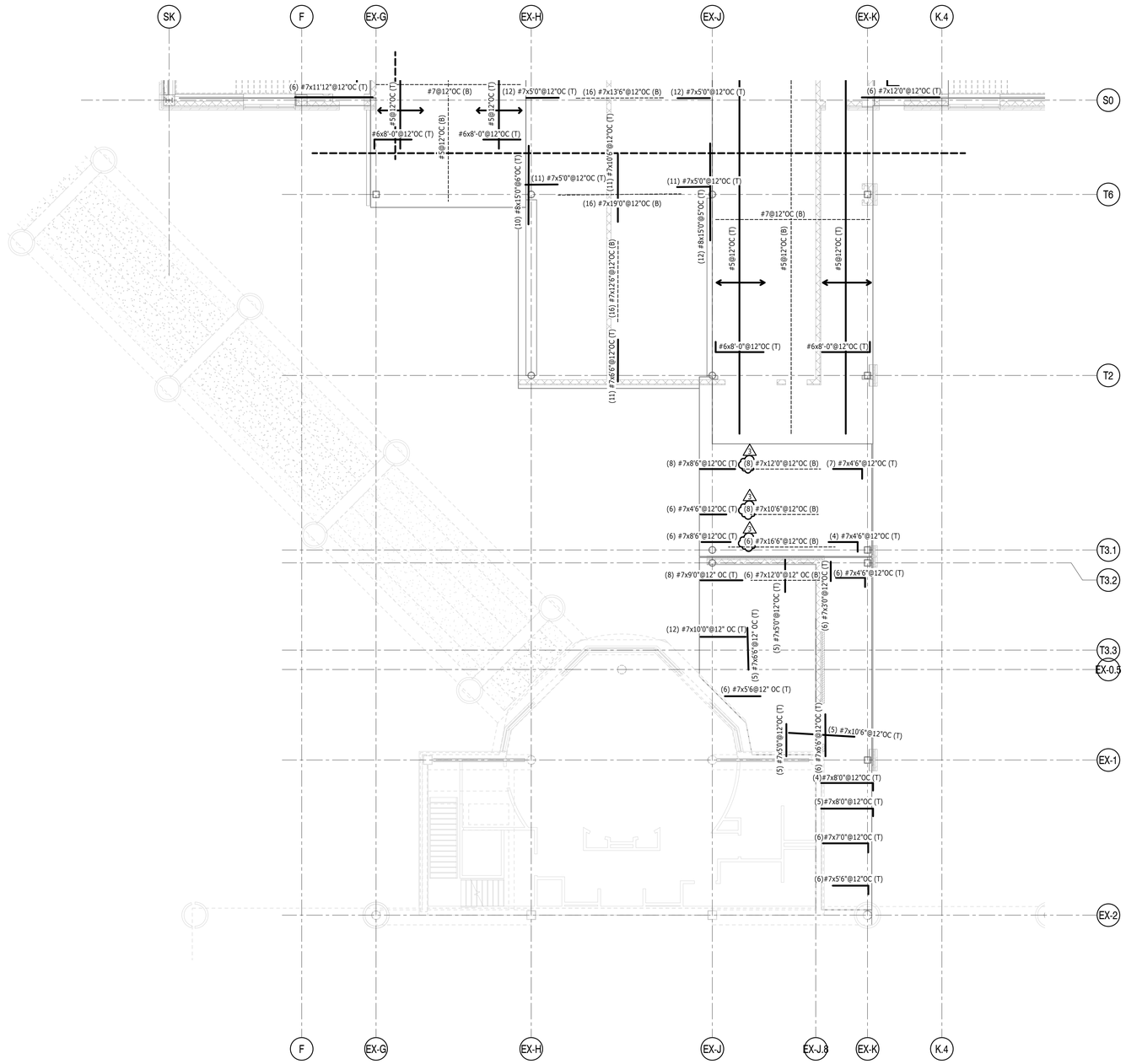
PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 2

SHEET NUMBER

S1-125



1 / S1-126 BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 3

1/8" = 1'-0"

REBAR PLAN NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001 AND S-002.
2. FINISH FLOOR ELEVATION +13'-0" ABOVE REFERNCE FINISH FLOOR ELEVATION, UNLESS NOTED OTHERWISE.
3. CONCRETE ELEVATED SLABS SHALL BE TWO WAY FLAT PLATE CONCRETE SLAB. SEE PLAN FOR SLAB THICKNESS. TOP OF SLAB SHALL BE SLOPED WHERE NOTED ON ARCHITECTURAL DRAWINGS.
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5. "CONC SW" INDICATES CONCETE SHEAR WALL.
6. SEE ARCHITECTURAL DRAWINGS FOR PRECISE EDGE OF SLAB DIMENSIONS. ARCHITECTURAL DRAWINGS GOVERN ALL DIMENSIONS.
7. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS AND SLAB SLOPES.
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DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SINGAGE & WAYFINDING
TAKEFORM

REVISIONS

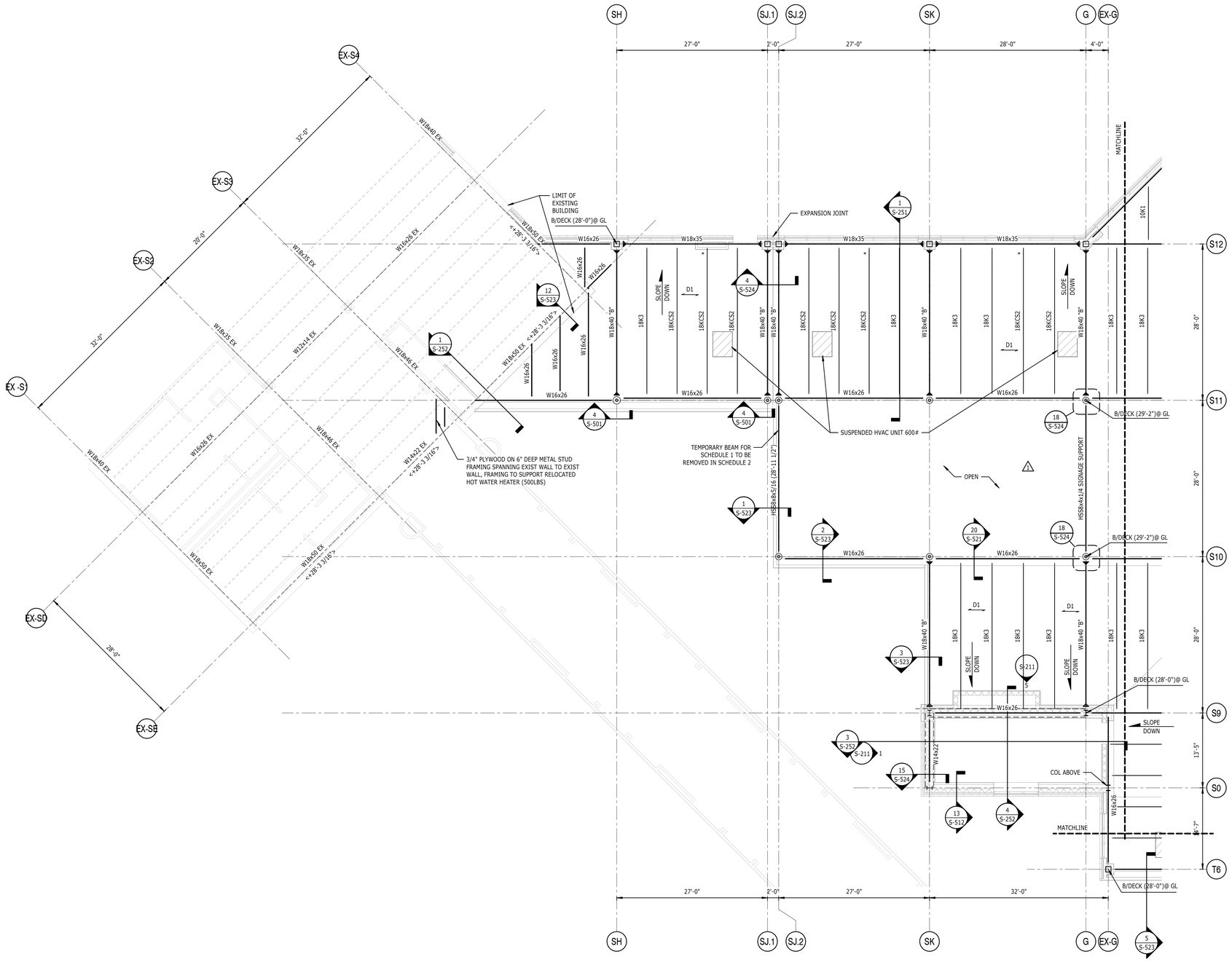
3	7/30/19	AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 1 ZONE 3

SHEET NUMBER

S1-126



1 S1-131 ROOF FRAMING PLAN SCHEDULE 1 ZONE 1

1/8" = 1'-0"

NOTES:
1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. (No) INDICATES TOP OF STEEL ELEVATION ABOVE REFERENCED FINISH FLOOR ELEVATION.
3. D1 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
4. ▶— INDICATES MOMENT CONNECTION, SEE 19/S-511 FOR SCHEDULE.
5. SEE ELEVATIONS ON PLAN FOR VERTICAL FRAME LOCATIONS AND S-211 FOR ELEVATIONS AND DETAILS.
6. FOR TYPICAL ROOF FRAMING DETAILS, SEE S-521.
7. FOR STEEL COLUMN SCHEDULE, SEE 1/S-501.
8. "B" INDICATES BOTTOM FLANGE BEAM BRACING REQUIRED. BRACING SHALL BE PER DETAIL 19/S522. IF BRACING IS NOTED AT EXPANION JOINTS, INSTALL BRACING ONLY ON ONE SIDE. (A)
9. "*" INDICATES BOTTOM CHORD EXTENSION REQUIRED.
10. "A=#K" INDICATES FACTORED AXIAL FORCE IN COLLECTOR BEAM TO BE USED IN CONNECTION DESIGN.
11. "B/DECK (+#'-#")" INDICATES BOTTOM OF DECK ELEVATION FROM REFERENCED FINISH FLOOR ELEVATION.
12. "TRUSS T#" INDICATES TRUSS TYPE, SEE S200 SERIES FOR ELEVATIONS.
13. ALL EXPOSED STRUCTURAL STEEL (COLUMNS, ROOF TRUSSES, TRUSS BEARING & ETC) SHALL BE CONSIDERED AESS.
14. D2 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
15. "#k-ft" DENOTES FACTORED MOMENT TO BE USED IN DESIGN OF MOMENT CONNECTIONS.

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

NORTH CAROLINA PROFESSIONAL SEAL 024096 ENGINEER MICHAEL A. GARDINER
07/30/2019

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CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
BNP

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DK CONSULTANTS

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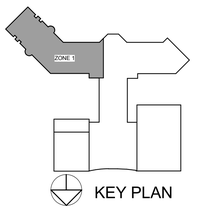


KEY PLAN

REVISIONS

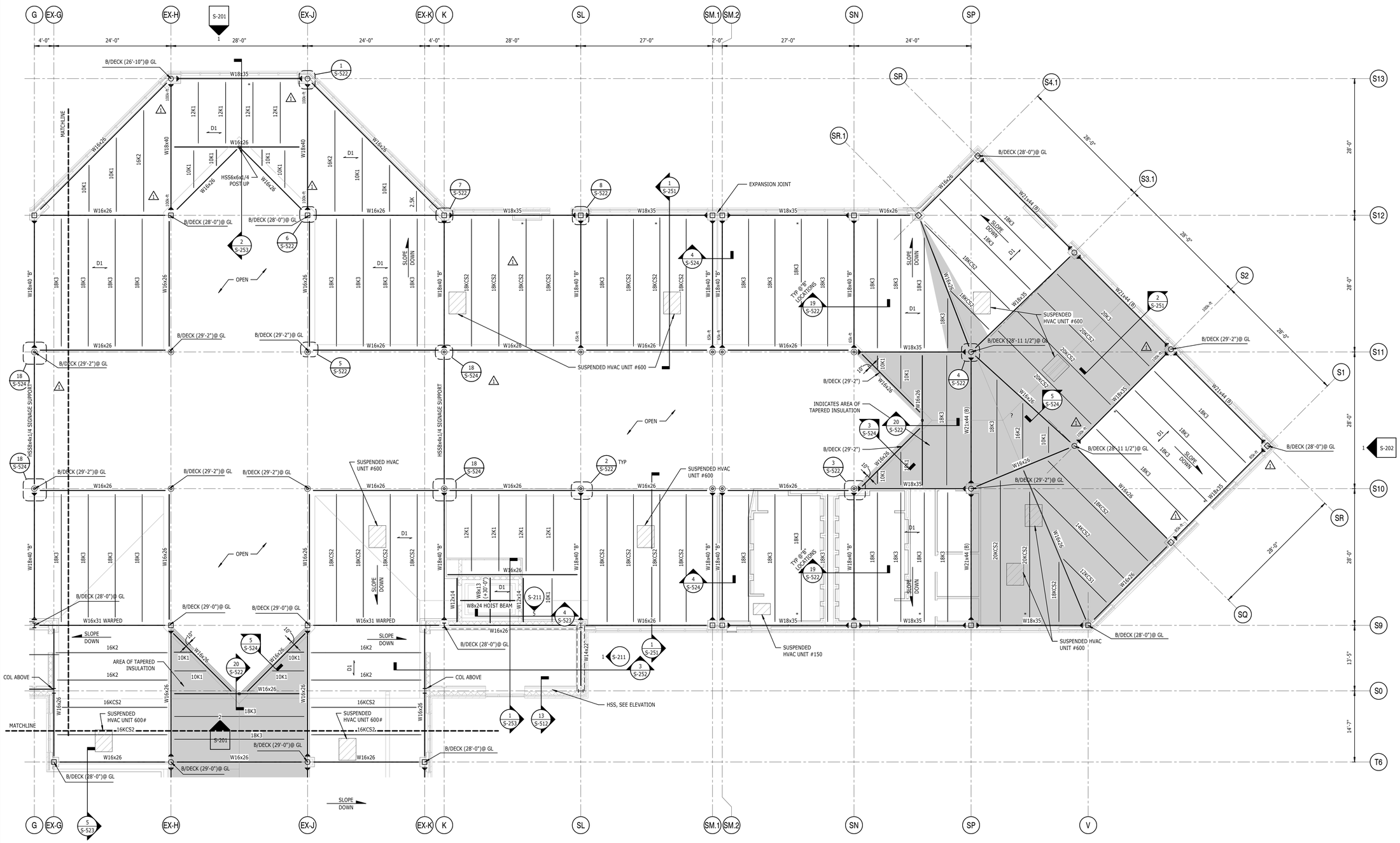
1	7/12/19	AD-01
3	7/30/19	AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL ROOF FRAMING PLAN SCHEDULE 1 ZONE 1

SHEET NUMBER

S1-131



1 S1-132 ROOF FRAMING PLAN SCHEDULE 1 ZONE 2

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. (No) INDICATES TOP OF STEEL ELEVATION ABOVE REFERENCED FINISH FLOOR ELEVATION.
3. D1 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
4. ▶ INDICATES MOMENT CONNECTION, SEE 19/S-511 FOR SCHEDULE.
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6. FOR TYPICAL ROOF FRAMING DETAILS, SEE S-521.
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8. "B" INDICATES BOTTOM FLANGE BEAM BRACING REQUIRED. BRACING SHALL BE PER DETAIL 19/S522. IF BRACING IS NOTED AT EXPANION JOINTS, INSTALL BRACING ONLY ON ONE SIDE.
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10. "A=#K" INDICATES FACTORED AXIAL FORCE IN COLLECTOR BEAM TO BE USED IN CONNECTION DESIGN.
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14. D2 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
15. "##k-ft" DENOTES FACTORED MOMENT TO BE USED IN DESIGN OF MOMENT CONNECTIONS.

⚠1 ⚠2 ⚠3

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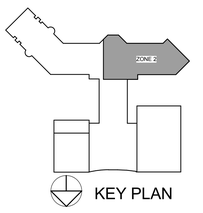


KEY PLAN

REVISIONS

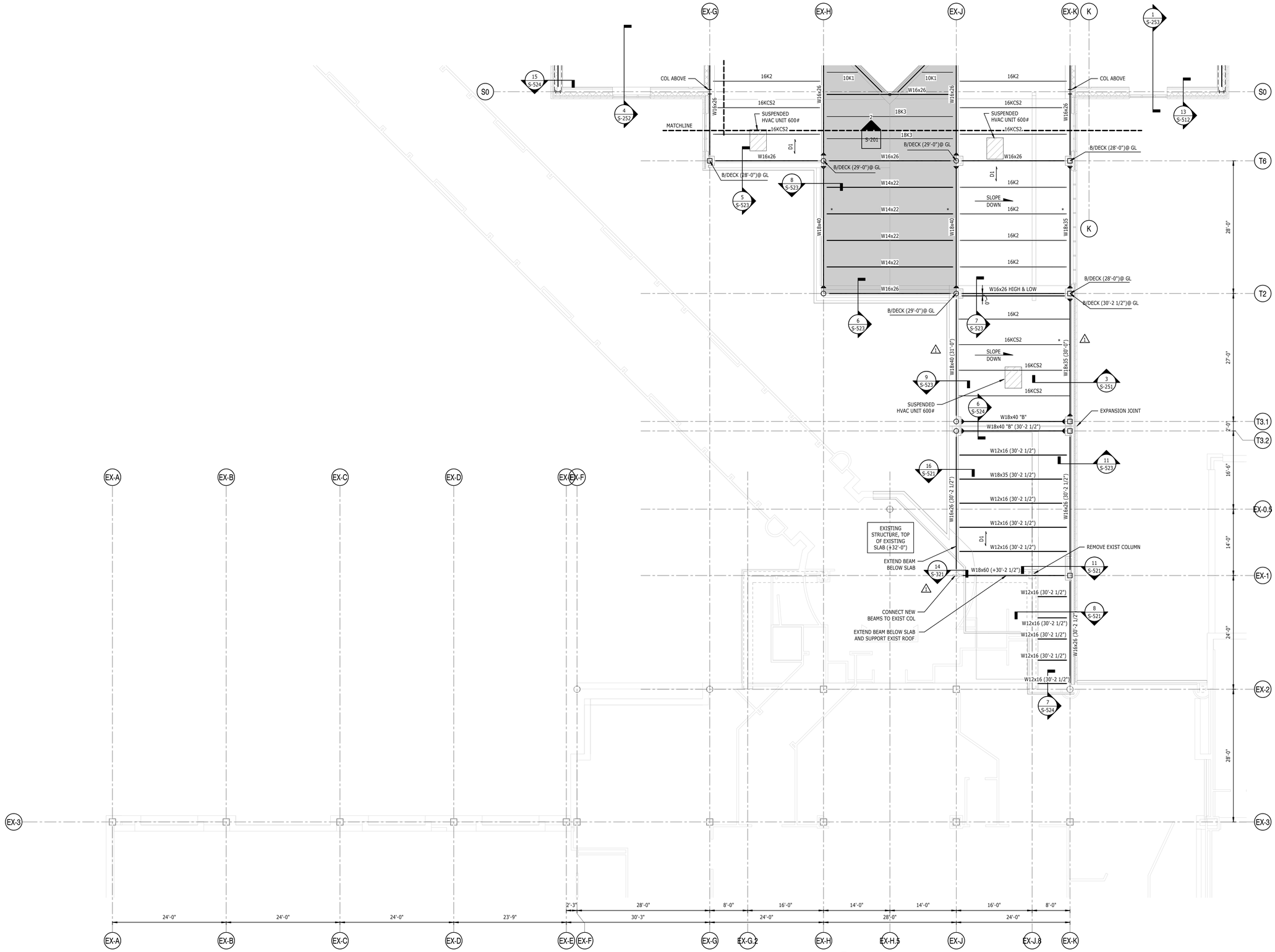
1	7/12/19	AD-01
3	7/30/19	AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL ROOF FRAMING PLAN SCHEDULE 1 ZONE 2

SHEET NUMBER

S1-132



1 S1-133 ROOF FRAMING PLAN SCHEDULE 1 ZONE 3

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. (No) INDICATES TOP OF STEEL ELEVATION ABOVE REFERENCED FINISH FLOOR ELEVATION.
3. D1 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
4. INDICATES MOMENT CONNECTION, SEE 19/S-511 FOR SCHEDULE.
5. SEE ELEVATIONS ON PLAN FOR VERTICAL FRAME LOCATIONS AND S-211 FOR ELEVATIONS AND DETAILS.
6. FOR TYPICAL ROOF FRAMING DETAILS, SEE S-521.
7. FOR STEEL COLUMN SCHEDULE, SEE 1/S-501.
8. "B" INDICATES BOTTOM FLANGE BEAM BRACING REQUIRED. BRACING SHALL BE PER DETAIL 19/SS22. IF BRACING IS NOTED AT EXPANION JOINTS, INSTALL BRACING ONLY ON ONE SIDE.
9. "*" INDICATES BOTTOM CHORD EXTENSION REQUIRED.
10. "A=#K" INDICATES FACTORED AXIAL FORCE IN COLLECTOR BEAM TO BE USED IN CONNECTION DESIGN.
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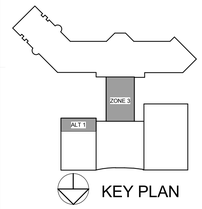

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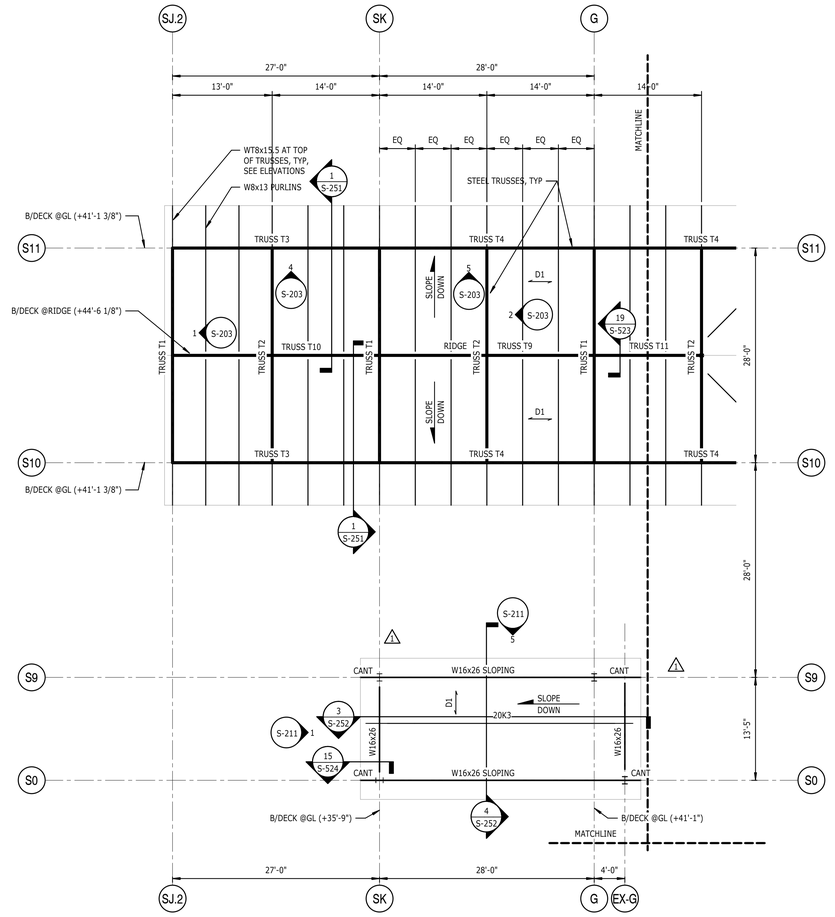
SHEET TITLE

PARTIAL ROOF FRAMING PLAN SCHEDULE 1 ZONE 3

SHEET NUMBER

S1-133



1 S1-141 HIGH ROOF FRAMING PLAN SCHEDULE 1 ZONE 1

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. (No) INDICATES TOP OF STEEL ELEVATION ABOVE REFERENCED FINISH FLOOR ELEVATION.
3. D1 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
4. ▶—— INDICATES MOMENT CONNECTION, SEE 19/S-511 FOR SCHEDULE.
5. SEE ELEVATIONS ON PLAN FOR VERTICAL FRAME LOCATIONS AND S-211 FOR ELEVATIONS AND DETAILS.
6. FOR TYPICAL ROOF FRAMING DETAILS, SEE S-521.
7. FOR STEEL COLUMN SCHEDULE, SEE 1/S-501.
8. "B" INDICATES BOTTOM FLANGE BEAM BRACING REQUIRED. BRACING SHALL BE PER DETAIL 19/S522. IF BRACING IS NOTED AT EXPANION JOINTS, INSTALL BRACING ONLY ON ONE SIDE. (2)
9. "*" INDICATES BOTTOM CHORD EXTENSION REQUIRED.
10. "A=#K" INDICATES FACTORED AXIAL FORCE IN COLLECTOR BEAM TO BE USED IN CONNECTION DESIGN.
11. "B/DECK (+#'-#")" INDICATES BOTTOM OF DECK ELEVATION FROM REFERENCED FINISH FLOOR ELEVATION.
12. "TRUSS T#" INDICATES TRUSS TYPE, SEE S200 SERIES FOR ELEVATIONS.
13. ALL EXPOSED STRUCTURAL STEEL (COLUMNS, ROOF TRUSSES, TRUSS BEARING & ETC) SHALL BE CONSIDERED AESS.
14. D2 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
15. "##k-ft" DENOTES FACTORED MOMENT TO BE USED IN DESIGN OF MOMENT CONNECTIONS.

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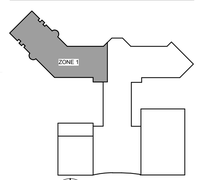

KEY PLAN

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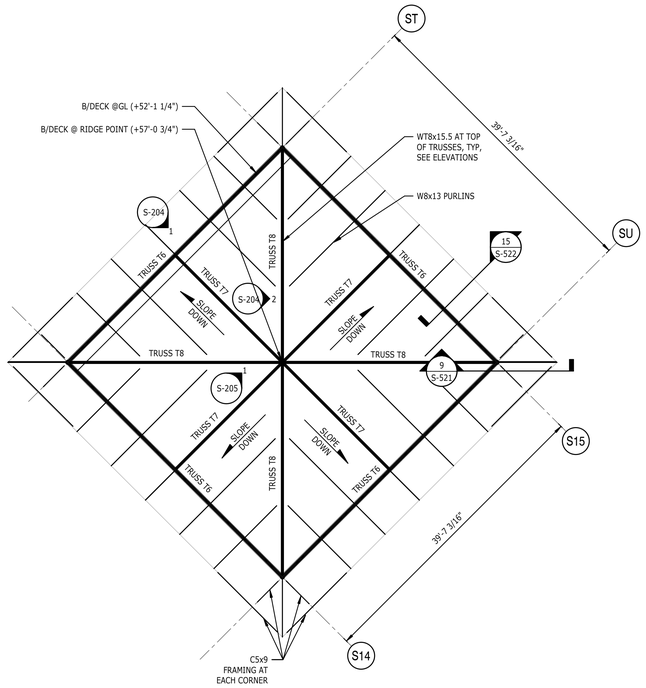
1	7/12/19	AD-01
3	7/30/19	AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL HIGH ROOF FRAMING PLAN SCHEDULE 1 ZONE 1

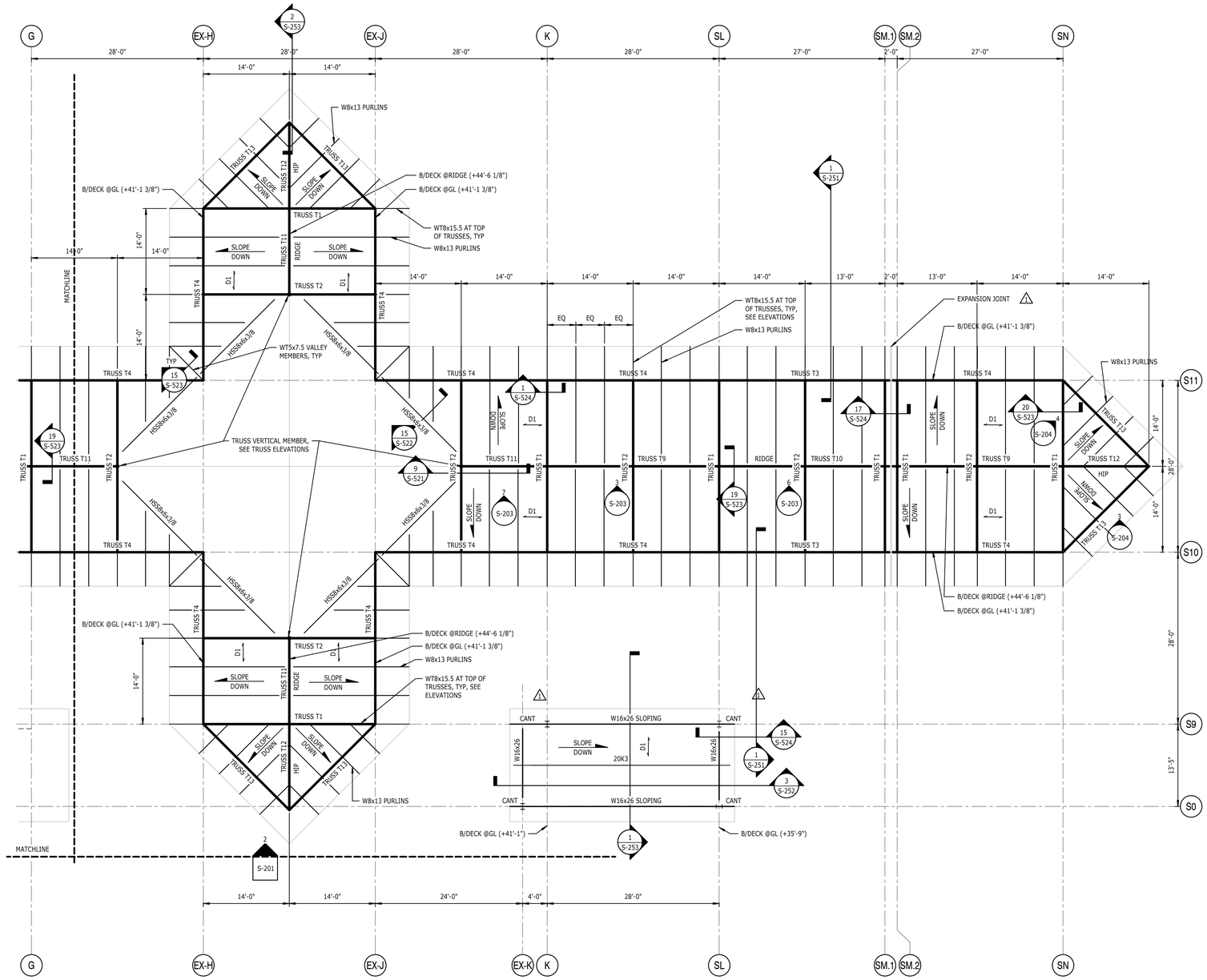
SHEET NUMBER

S1-141



2 S1-142 HIGH ROOF FRAMING PLAN SCHEDULE 1

1/8" = 1'-0"



1 S1-142 HIGH ROOF FRAMING PLAN SCHEDULE 1 ZONE 2

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. (No) INDICATES TOP OF STEEL ELEVATION ABOVE REFERENCED FINISH FLOOR ELEVATION.
3. D1 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
4. ▶— INDICATES MOMENT CONNECTION, SEE 19/S-511 FOR SCHEDULE.
5. SEE ELEVATIONS ON PLAN FOR VERTICAL FRAME LOCATIONS AND S-211 FOR ELEVATIONS AND DETAILS.
6. FOR TYPICAL ROOF FRAMING DETAILS, SEE S-521.
7. FOR STEEL COLUMN SCHEDULE, SEE 1/S-501.
8. "B" INDICATES BOTTOM FLANGE BEAM BRACING REQUIRED. BRACING SHALL BE PER DETAIL 19/S522. IF BRACING IS NOTED AT EXPANION JOINTS, INSTALL BRACING ONLY ON ONE SIDE.
9. "*" INDICATES BOTTOM CHORD EXTENSION REQUIRED.
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11. "B/DECK (+#'-##")" INDICATES BOTTOM OF DECK ELEVATION FROM REFERENCED FINISH FLOOR ELEVATION.
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14. D2 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
15. "##k-ft" DENOTES FACTORED MOMENT TO BE USED IN DESIGN OF MOMENT CONNECTIONS.

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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07/30/2019

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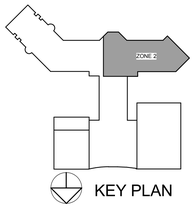


KEY PLAN

REVISIONS

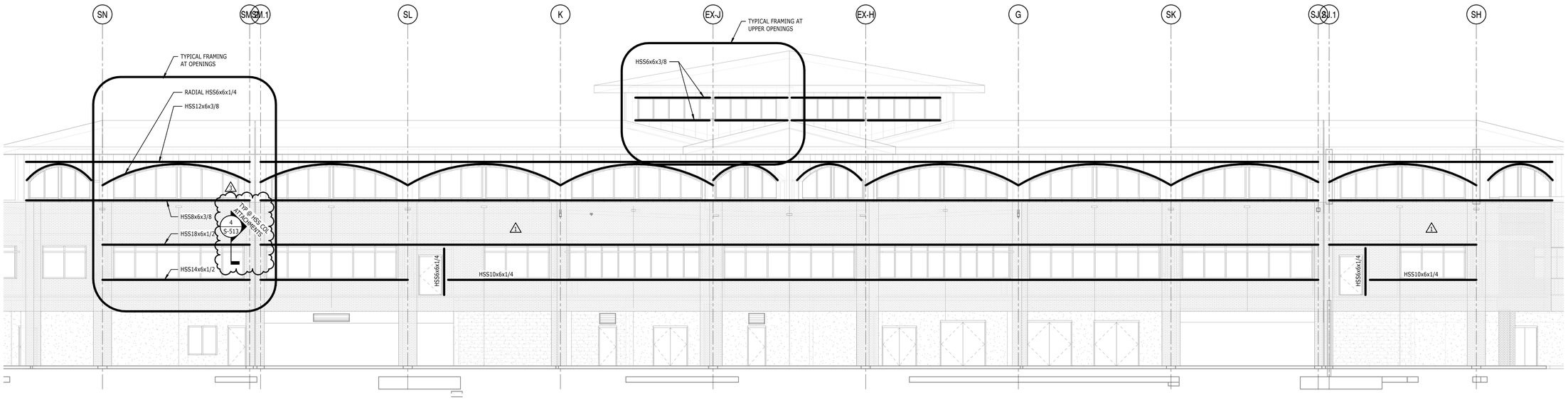
1	7/12/19	AD-01
3	7/30/19	AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

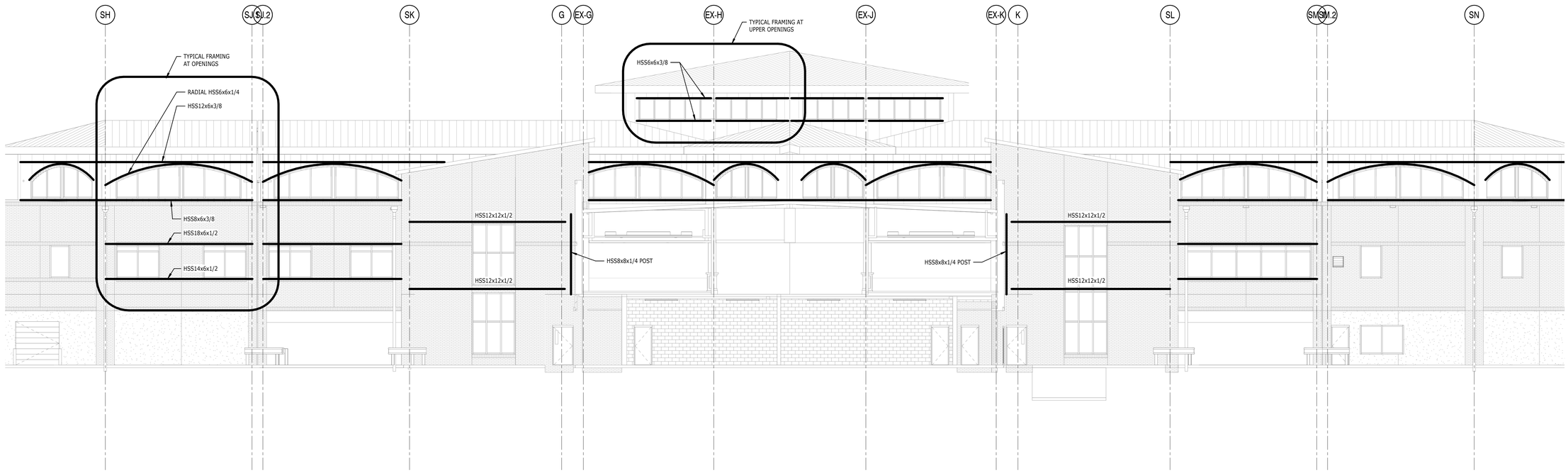
PARTIAL HIGH ROOF FRAMING PLAN SCHEDULE 1 ZONE 2

SHEET NUMBER

S1-142



1 S-201 SOUTH ELEVATION
1/8" = 1'-0"



2 S-201 NORTH ELEVATION
1/8" = 1'-0"

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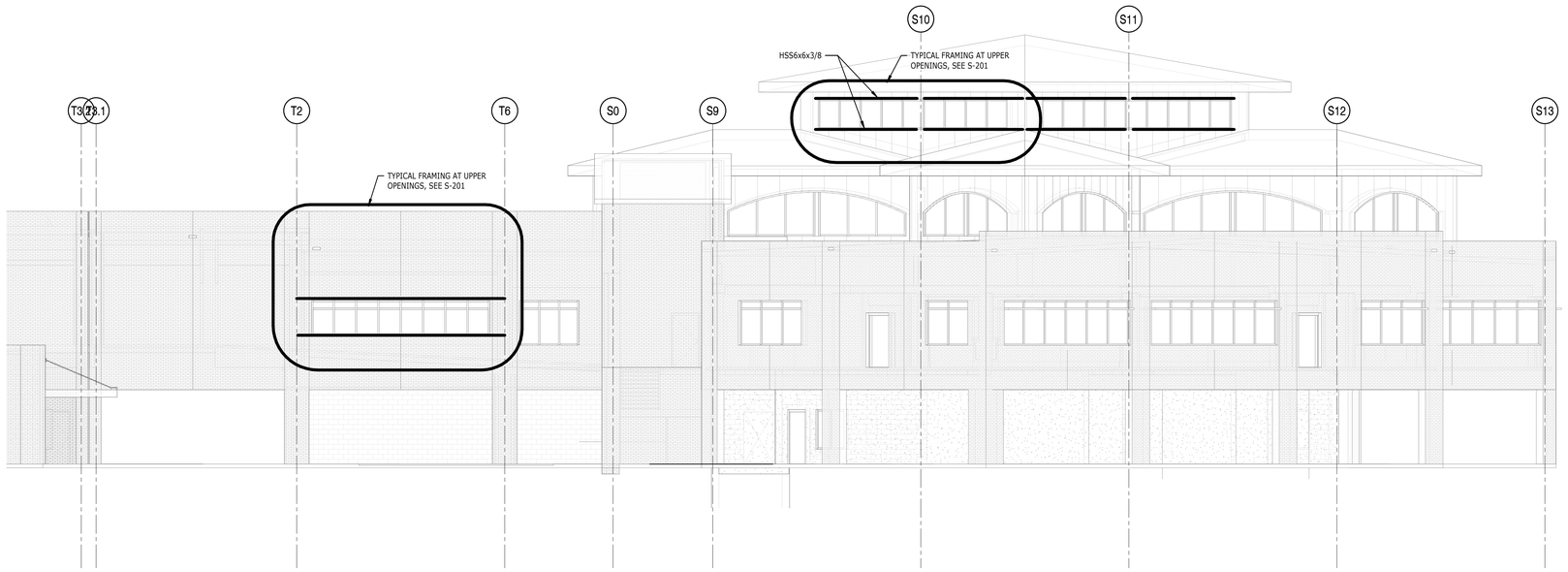
DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

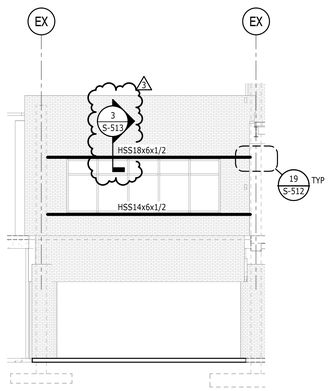
STRUCTURAL ELEVATIONS

SHEET NUMBER

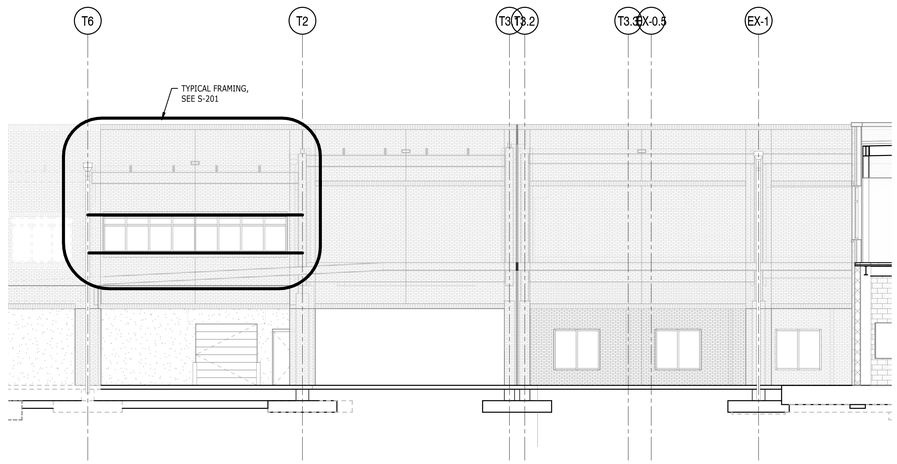
S-201



1 S-202 WEST ELEVATION
1/8" = 1'-0"



3 S-202 NEW OPENING IN EXISTING WALL ELEVATION
1/8" = 1'-0"



2 S-202 EAST ELEVATION SCHEDULE 2
1/8" = 1'-0"

ILM

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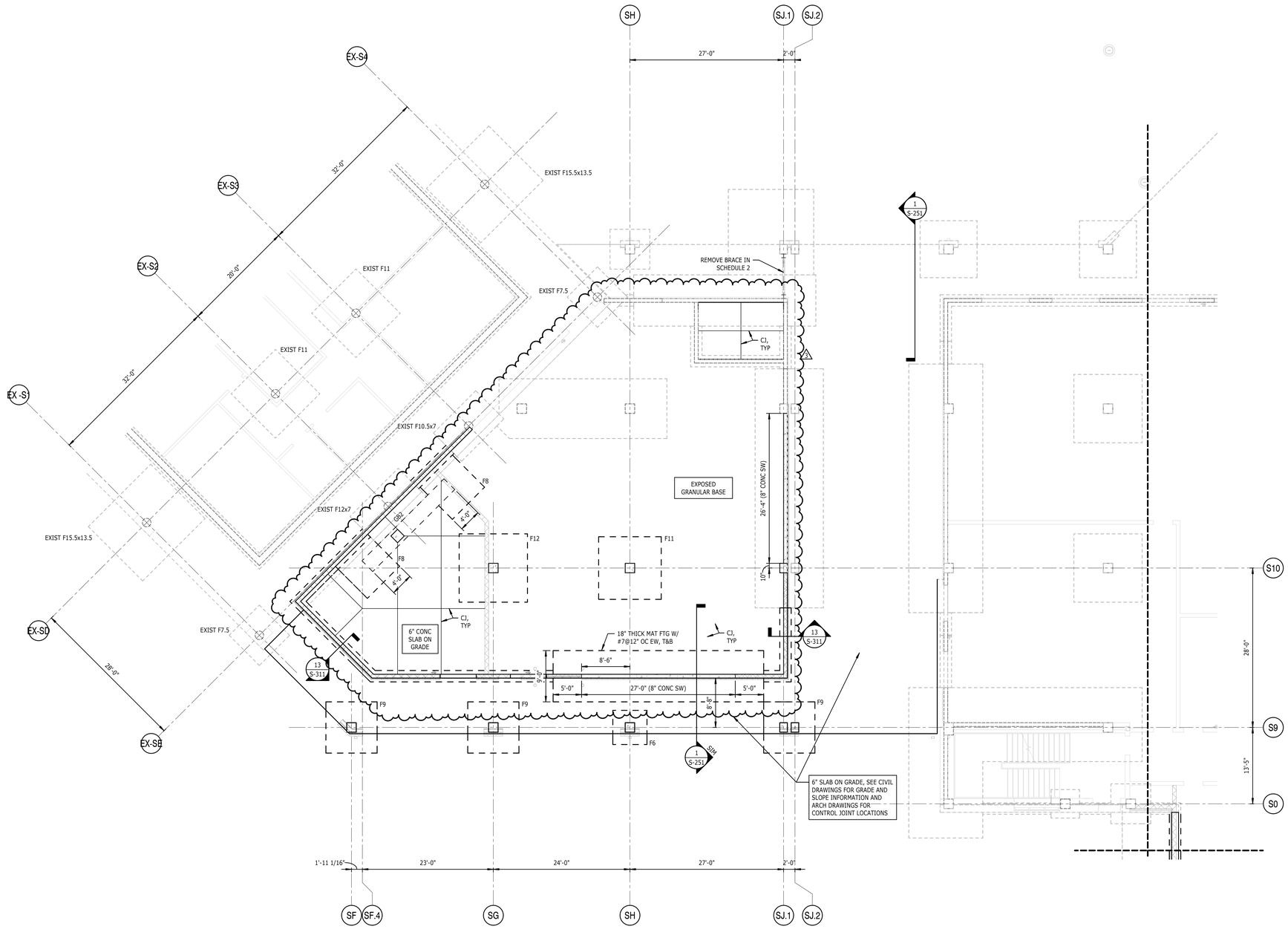
SHEET TITLE

STRUCTURAL ELEVATIONS

SHEET NUMBER

S-202



1 S2-101 FOUNDATION PLAN SCHEDULE 2 ZONE 1

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. SEE CIVIL DRAWINGS FOR FINISHED FLOOR ELEVATION, UNO. REFERENCE ELEVATION 0'-0".
3. [No] INDICATES DEPRESSED OR RAISED SLAB ELEVATION, SEE PLAN.
4. TOP OF FOOTING 2'-0" BELOW FINISHED FLOOR ELEVATION, UNO. <No> INDICATES TOP OF FOOTING ELEVATION, SEE PLAN.
5. ⊣⊢ INDICATES STEP IN WALL FOOTING, SEE 9/S-301.
6. "F#" INDICATES FOOTING TYPE, SEE 7/S-301.
7. FOR STEEL COLUMN SCHEDULE, SEE 1/S-501.
8. FOR CONCRETE COLUMN SCHEDULE, SEE 1/S-323.
9. "CONC SW" INDICATES CONCRETE SHEARWALL, SEE ___ FOR SCHEDULE.
10. FOR TYPICAL SLAB CONSTRUCTION DETAILS, SEE 1/S-301.

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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NORTH CAROLINA PROFESSIONAL SEAL 024096 ENGINEER MICHAEL A. GARDINER
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HARTRANFT

SINGAGE & WAYFINDING
TAKEFORM

KEY PLAN

REVISIONS

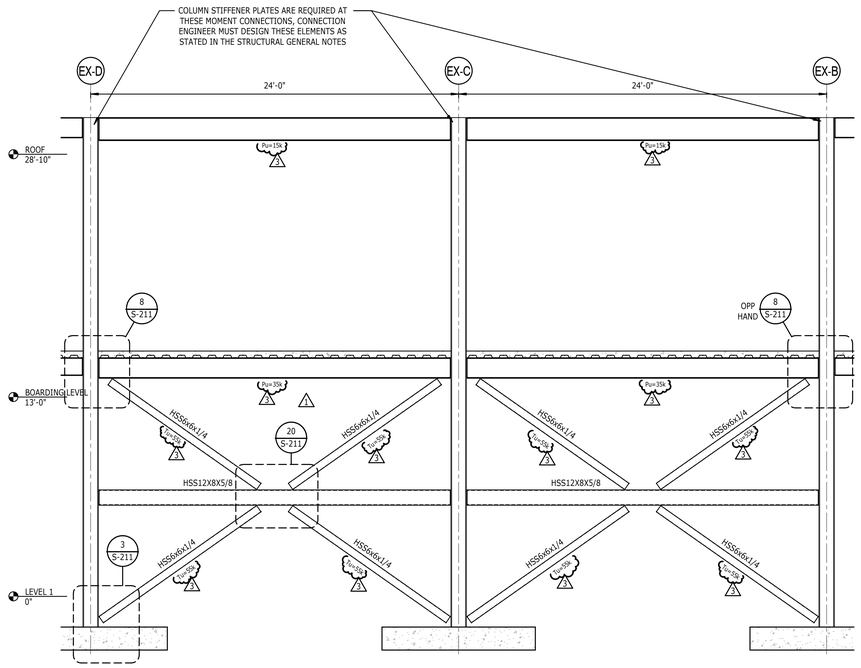
3 7/30/19 AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL FOUNDATION PLAN SCHEDULE 2 ZONE 1

SHEET NUMBER

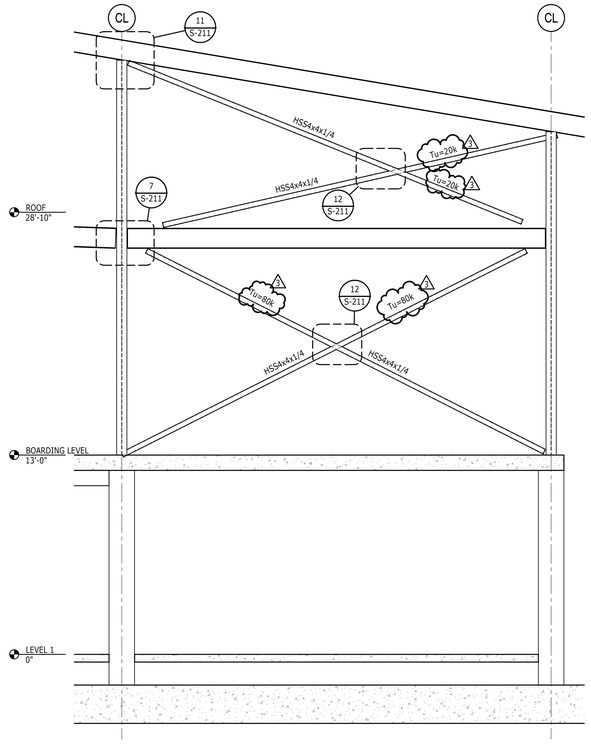
S2-101



13 S-211 **VF#3 ALONG GL 0.8**

1/4" = 1'-0"

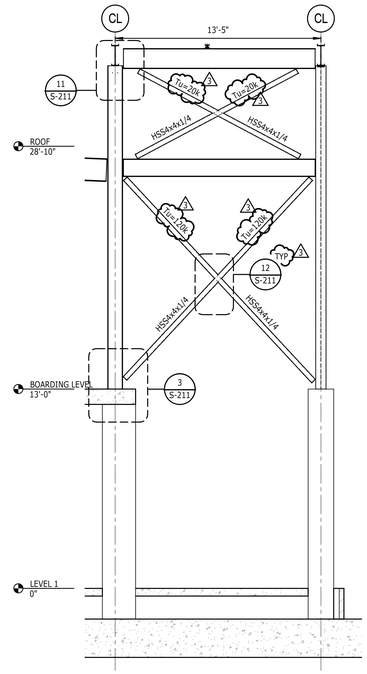
NOTES:
1. "Tu=#" INDICATES FACTORED TENSION FORCE IN DIAGONAL BRACE TO BE USED IN CONNECTION DESIGN.
2. "Pu=#" INDICATES FACTORED AXIAL FORCE IN FRAME BEAM TO BE USED IN CONNECTION DESIGN.



5 S-211 **VF#2 ALONG GL-S9**

1/4" = 1'-0"

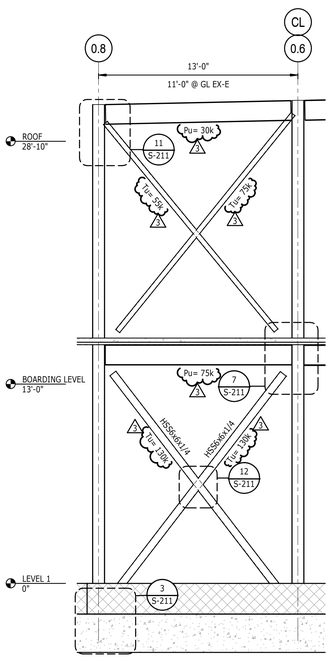
NOTES:
1. "Tu=#" INDICATES FACTORED TENSION FORCE IN DIAGONAL BRACE TO BE USED IN CONNECTION DESIGN.
2. "Pu=#" INDICATES FACTORED AXIAL FORCE IN FRAME BEAM TO BE USED IN CONNECTION DESIGN.



1 S-211 **VF#1 ALONG GL-SK & GL-SL**

1/4" = 1'-0"

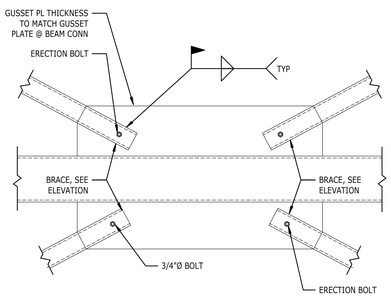
NOTES:
1. "Tu=#" INDICATES FACTORED TENSION FORCE IN DIAGONAL BRACE TO BE USED IN CONNECTION DESIGN.
2. "Pu=#" INDICATES FACTORED AXIAL FORCE IN FRAME BEAM TO BE USED IN CONNECTION DESIGN.



15 S-211 **VF#4 ALONG GL EX-A AND EX-E**

1/4" = 1'-0"

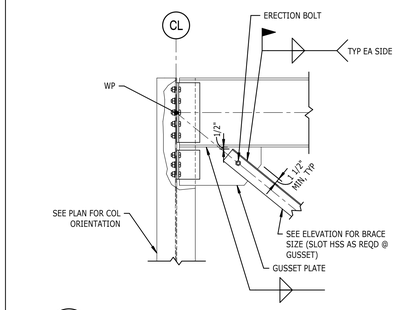
NOTES:
1. "Tu=#" INDICATES FACTORED TENSION FORCE IN DIAGONAL BRACE TO BE USED IN CONNECTION DESIGN.
2. "Pu=#" INDICATES FACTORED AXIAL FORCE IN FRAME BEAM TO BE USED IN CONNECTION DESIGN.



NOTES:
FABRICATOR SHALL DESIGN ALL BEAM TO COLUMN CONNECTIONS, GUSSET PLATES, AND WELDS WITHIN VERTICAL FRAME TO SUPPORT THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE PLUS THE BEAM REACTION SHOWN ON THE ELEVATION. ALLOWABLE STRESS INCREASES OR LOAD REDUCTIONS ARE NOT PERMITTED.

20 S-211 **SECTION**

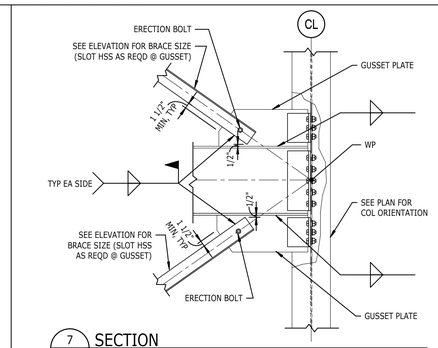
TYPICAL BRACE INTERSECTION, DOUBLE ANGLE
NTS



11 S-211 **SECTION**

TYPICAL BRACE CONNECTION AT BEAM
NTS

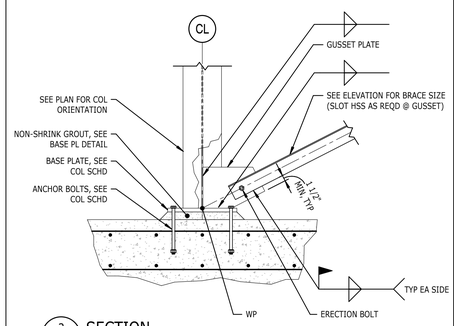
NOTES:
1. FABRICATOR SHALL DESIGN ALL BEAM TO COLUMN CONNECTIONS, GUSSET PLATES, AND WELDS WITHIN VERTICAL FRAME TO SUPPORT THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE PLUS THE BEAM REACTION SHOWN ON THE ELEVATION. ALLOWABLE STRESS INCREASES OR LOAD REDUCTIONS ARE NOT PERMITTED.



7 S-211 **SECTION**

TYPICAL BRACE CONNECTION AT BEAM
NTS

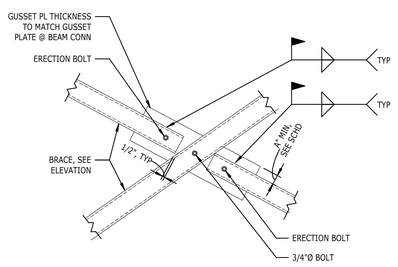
NOTES:
1. FABRICATOR SHALL DESIGN ALL BEAM TO COLUMN CONNECTIONS, GUSSET PLATES, AND WELDS WITHIN VERTICAL FRAME TO SUPPORT THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE PLUS THE BEAM REACTION SHOWN ON THE ELEVATION. ALLOWABLE STRESS INCREASES OR LOAD REDUCTIONS ARE NOT PERMITTED.



3 S-211 **SECTION**

TYPICAL BRACE CONNECTION AT SLAB
NTS

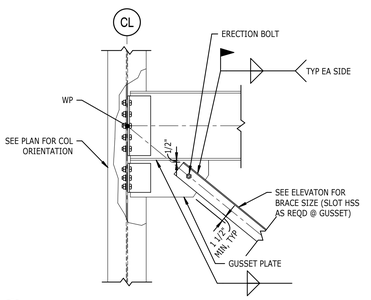
NOTES:
1. FABRICATOR SHALL DESIGN ALL BEAM TO COLUMN CONNECTIONS, GUSSET PLATES, AND WELDS WITHIN VERTICAL FRAME TO SUPPORT THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE PLUS THE BEAM REACTION SHOWN ON THE ELEVATION. ALLOWABLE STRESS INCREASES OR LOAD REDUCTIONS ARE NOT PERMITTED.



12 S-211 **SECTION**

TYPICAL BRACE INTERSECTION, DOUBLE ANGLE
NTS

NOTES:
FABRICATOR SHALL DESIGN ALL BEAM TO COLUMN CONNECTIONS, GUSSET PLATES, AND WELDS WITHIN VERTICAL FRAME TO SUPPORT THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE PLUS THE BEAM REACTION SHOWN ON THE ELEVATION. ALLOWABLE STRESS INCREASES OR LOAD REDUCTIONS ARE NOT PERMITTED.



8 S-211 **SECTION**

TYPICAL BRACE CONNECTION AT BEAM
NTS

NOTES:
1. FABRICATOR SHALL DESIGN ALL BEAM TO COLUMN CONNECTIONS, GUSSET PLATES, AND WELDS WITHIN VERTICAL FRAME TO SUPPORT THE HORIZONTAL AND VERTICAL COMPONENTS OF THE BRACE FORCE PLUS THE BEAM REACTION SHOWN ON THE ELEVATION. ALLOWABLE STRESS INCREASES OR LOAD REDUCTIONS ARE NOT PERMITTED.

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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TAKEFORM

REVISIONS

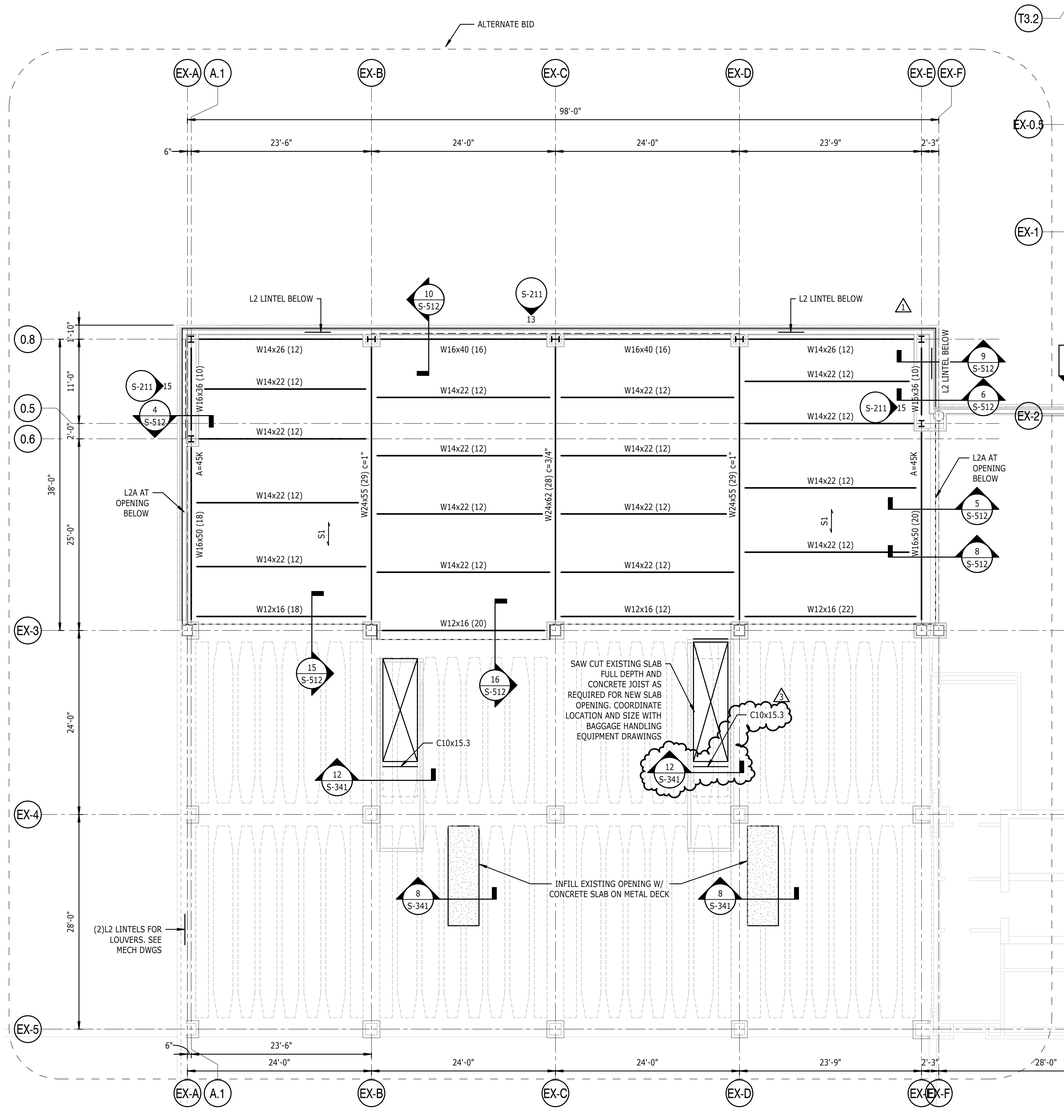
1	7/12/19	AD-01
3	7/30/19	AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

VERTICAL FRAME ELEVATIONS AND DETAILS

SHEET NUMBER

S-211



BOARDING LEVEL SCHEDULE 2 ZONE 3

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. SEE PLAN FOR FINISHED FLOOR ELEVATION ABOVE REFERENCE FINISHED FLOOR ELEVATION, UNO.
3. FOR TYPICAL SLAB CONSTRUCTION DETAILS, SEE S-320 SERIES OF DRAWINGS.
4. FOR STEEL COLUMN SCHEDULE, SEE 1/S-501.
5. FOR CONCRETE COLUMN SCHEDULE, SEE 1/S-323.
6. "CONC SW" INDICATES CONCRETE SHEARWALL, SEE S-321 FOR SCHEDULE.
7. "CB#" INDICATES CONCRETE BEAM TYPE, SEE 12/S-321.
8. S1 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 3 1/4" LIGHT WEIGHT CONCRETE ON 2"-20GA COMPOSITE STEEL DECK. TOTAL THICKNESS = 5 1/4". SEE TYPICAL SLAB CONSTRUCTION DETAILS ON S-511.
9. "A=#K" INDICATES FACTORED AXIAL FORCE IN COLLECTOR BEAM TO BE USED IN CONNECTION DESIGN.
10. "T/WALL" INDICATES TOP OF WALL ELEVATION ABOVE REFERENCE FINISHED FLOOR ELEVATION, UNO.
11. "T/COL" INDICATES TOP OF COLUMN ELEVATION ABOVE REFERENCE FINISHED FLOOR ELEVATION, UNO.
12. "◆" INDICATES TOP OF SLAB ELEVATION ABOVE REFERENCE FINISHED FLOOR ELEVATION, UNO.
13. B/BEAM = BOTTOM OF BEAM ELEVATION ABOVE REFERENCE FINISH FLOOR ELEVATION.

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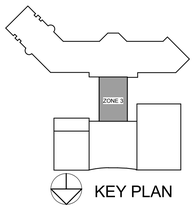


KEY PLAN

REVISIONS

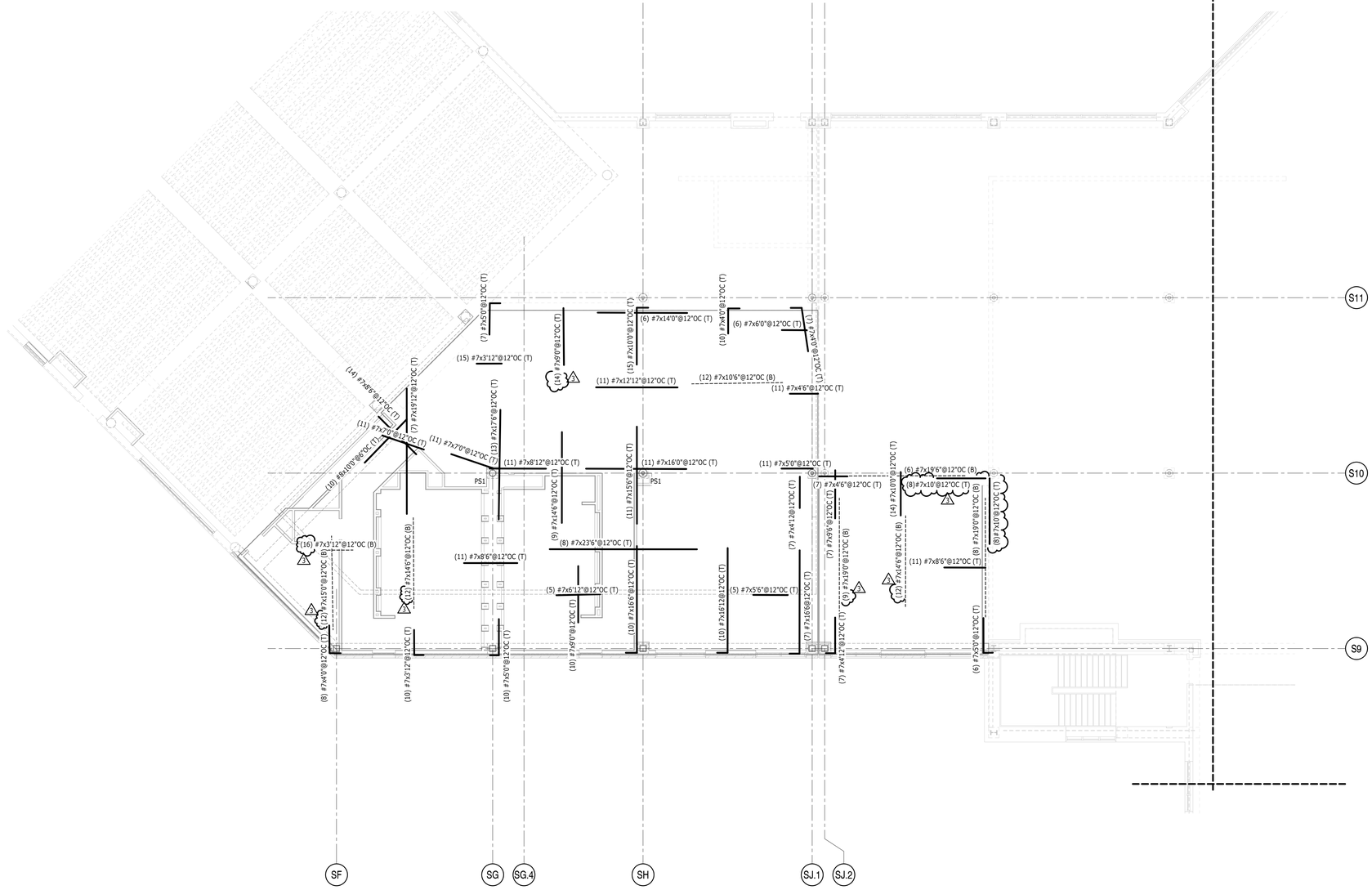
1	7/12/19	AD-01
3	7/30/19	AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL BOARDING LEVEL PLAN SCHEDULE 2 ZONE 3

SHEET NUMBER

S2-123



1 S2-124 BOARDING LEVEL REBAR PLAN SCHEDULE 2 ZONE 1

1/8" = 1'-0"

REBAR PLAN NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001 AND S-002.
2. FINISH FLOOR ELEVATION +13'-0" ABOVE REFERNCE FINISH FLOOR ELEVATION, UNLESS NOTED OTHERWISE.
3. CONCRETE ELEVATED SLABS SHALL BE TWO WAY FLAT PLATE CONCRETE SLAB. SEE PLAN FOR SLAB THICKNESS. TOP OF SLAB SHALL BE SLOPED WHERE NOTED ON ARCHITECTURAL DRAWINGS.
4. ALL OPENINGS IN CONCRETE SLAB MUST BE LOCATED AND BLOCKED OUT PRIOR TO CONCRETE BEING PLACED. NO CORE DRILLING IS PREMITTED WITHOUT CONSENT OF THE ENGINEER OF RECORD. SEE 7/S-322 FOR REINFORCING AT OPENINGS. .
5. "CONC SW" INDICATES CONCETE SHEAR WALL.
6. SEE ARCHITECTURAL DRAWINGS FOR PRECISE EDGE OF SLAB DIMENSIONS. ARCHITECTURAL DRAWINGS GOVERN ALL DIMENSIONS.
7. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS AND SLAB SLOPES.
8. "PS#" INDICATES STUD RAILS, STUD RAILS ARE REQUIRED TO BEGIN AT FACE OF COLUMN, SEE 7/S-321.
9. PROVIDE ADDITONAL STEEL AT ALL RE-ENTRAINT CORNERS PER DETAIL 4/S-322.
10. "CB" INDICATES CONCRETE BEAM, SEE 6/S-321.
11. REINFORCING THAT TERMINATES AT THE INTERFACE BETWEEN SCHEDULE 1 AND SCHEDULE 2 SHALL HAVE THREADED COUPLERS AT THE ENDS OF SCHEDULE 1 REINFORCING. SCHEDULE 2 REINFORCING SHALL BE THREADED TO CONNECT TO THE COUPLERS INSTALLED IN SCHEDULE 1. THIS IS TYPICAL AT THE SLAB AND BEAMS ALONG THIS JOINT.
12. " ⌐¬ " INDICATES REINFORCING STEEL WITH TYPICAL 90 OR 180 DEGREE HOOKS. LENGTHS INDICATED ON PLAN DO NOT INCLUDE HOOKS.

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REVISIONS

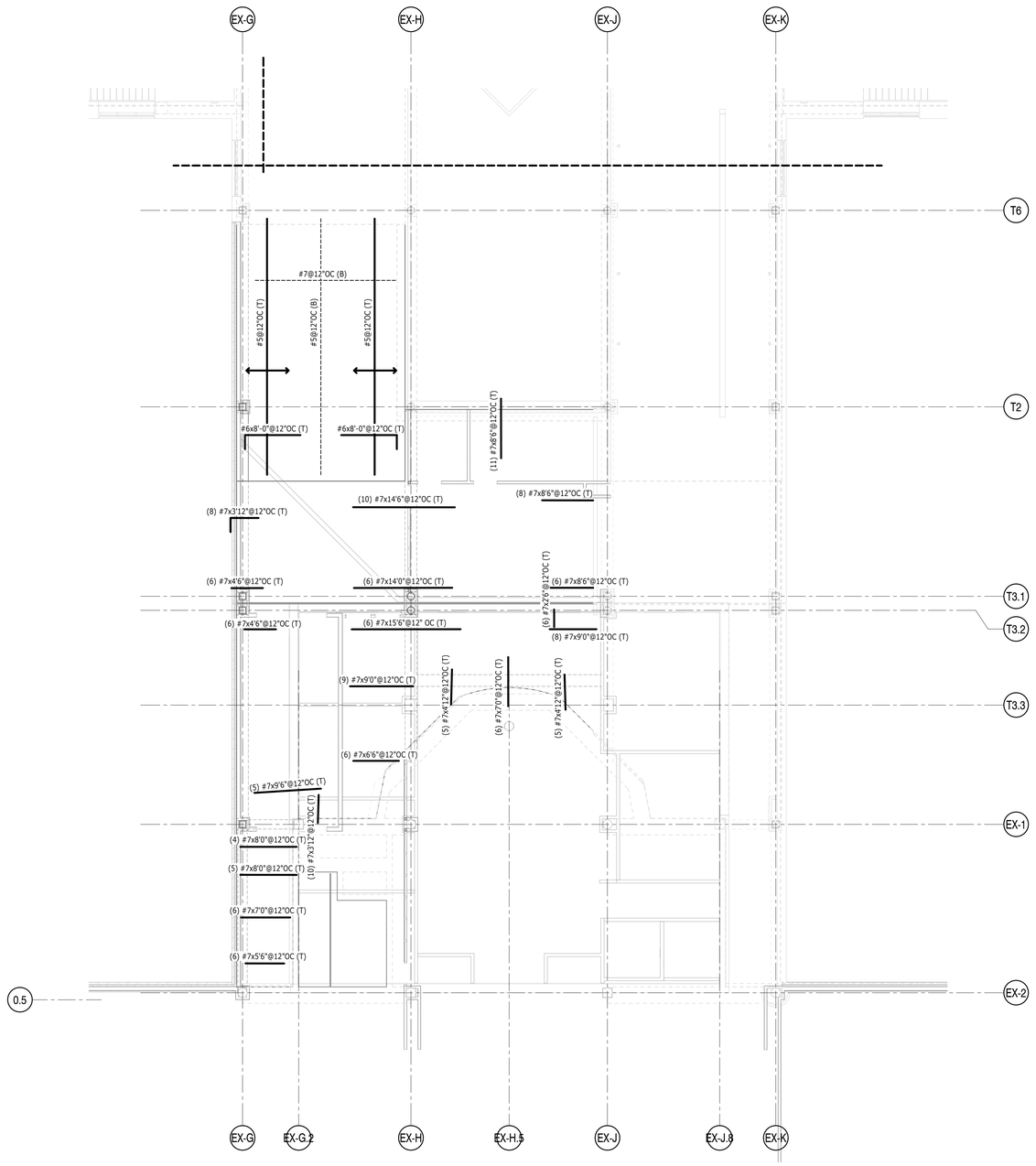
3	7/30/19	AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 2 ZONE 1

SHEET NUMBER

S2-124



1 / 52-125 BOARDING LEVEL REBAR PLAN SCHEDULE 2 ZONE 3

1/8" = 1'-0"

REBAR PLAN NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001 AND S-002.
2. FINISH FLOOR ELEVATION +13'-0" ABOVE REFERNCE FINISH FLOOR ELEVATION, UNLESS NOTED OTHERWISE.
3. CONCRETE ELEVATED SLABS SHALL BE TWO WAY FLAT PLATE CONCRETE SLAB. SEE PLAN FOR SLAB THICKNESS. TOP OF SLAB SHALL BE SLOPED WHERE NOTED ON ARCHITECTURAL DRAWINGS.
4. ALL OPENINGS IN CONCRETE SLAB MUST BE LOCATED AND BLOCKED OUT PRIOR TO CONCRETE BEING PLACED. NO CORE DRILLING IS PREMITTED WITHOUT CONSENT OF THE ENGINEER OF RECORD. SEE 7/S-322 FOR REINFORCING AT OPENINGS. .
5. "CONC SW" INDICATES CONCETE SHEAR WALL.
6. SEE ARCHITECTURAL DRAWINGS FOR PRECISE EDGE OF SLAB DIMENSIONS. ARCHITECTURAL DRAWINGS GOVERN ALL DIMENSIONS.
7. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS AND SLAB SLOPES.
8. "PS#" INDICATES STUD RAILS, STUD RAILS ARE REQUIRED TO BEGIN AT FACE OF COLUMN, SEE 7/S-321.
9. PROVIDE ADDITONAL STEEL AT ALL RE-ENTRAINT CORNERS PER DETAIL 4/S-322.
10. "CB" INDICATES CONCRETE BEAM, SEE 6/S-321.
11. REINFORCING THAT TERMINATES AT THE INTERFACE BETWEEN SCHEDULE 1 AND SCHEDULE 2 SHALL HAVE THREADED COUPLERS AT THE ENDS OF SCHEDULE 1 REINFORCING. SCHEDULE 2 REINFORCING SHALL BE THREADED TO CONNECT TO THE COUPLERS INSTALLED IN SCHEDULE 1. THIS IS TYPICAL AT THE SLAB AND BEAMS ALONG THIS JOINT.
12. " ⌐¬ " INDICATES REINFORCING STEEL WITH TYPICAL 90 OR 180 DEGREE HOOKS. LENGTHS INDICATED ON PLAN DO NOT INCLUDE HOOKS. 1

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REVISIONS

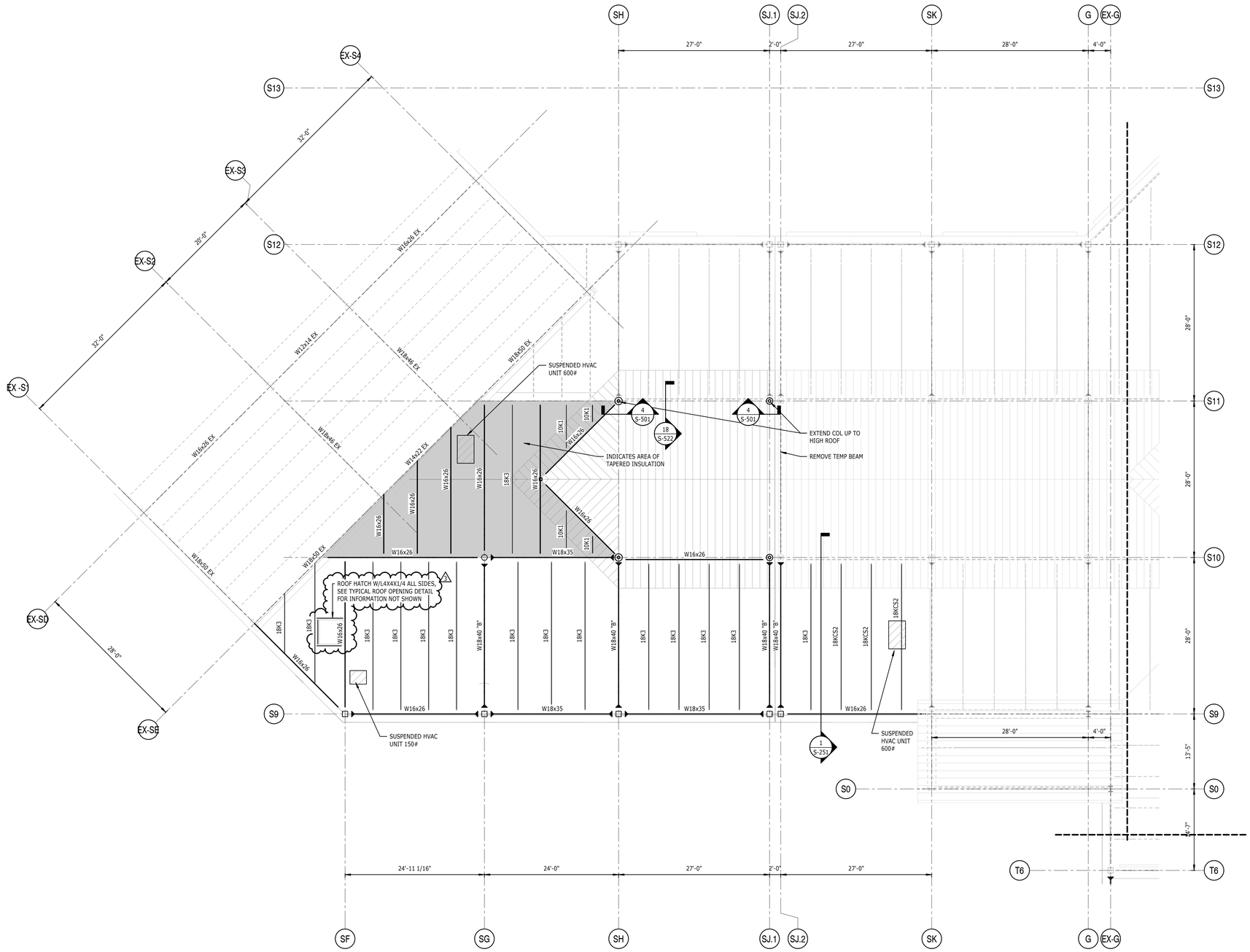
3 7/30/19 AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL BOARDING LEVEL REBAR PLAN SCHEDULE 2 ZONE 3

SHEET NUMBER

S2-125



1 / S2-131 ROOF FRAMING PLAN SCHEDULE 2 ZONE 1

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. (No) INDICATES TOP OF STEEL ELEVATION ABOVE REFERENCED FINISH FLOOR ELEVATION.
3. D1 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
4. ▶— INDICATES MOMENT CONNECTION, SEE 19/S-511 FOR SCHEDULE.
5. SEE ELEVATIONS ON PLAN FOR VERTICAL FRAME LOCATIONS AND S-211 FOR ELEVATIONS AND DETAILS.
6. FOR TYPICAL ROOF FRAMING DETAILS, SEE S-521.
7. FOR STEEL COLUMN SCHEDULE, SEE 1/S-501.
8. „B" INDICATES BOTTOM FLANGE BEAM BRACING REQUIRED. BRACING SHALL BE PER DETAIL 19/S522. IF BRACING IS NOTED AT EXPANION JOINTS, INSTALL BRACING ONLY ON ONE SIDE. (4)
9. "*" INDICATES BOTTOM CHORD EXTENSION REQUIRED.
10. "A=#K" INDICATES FACTORED AXIAL FORCE IN COLLECTOR BEAM TO BE USED IN CONNECTION DESIGN.
11. "B/DECK (+#'-#")" INDICATES BOTTOM OF DECK ELEVATION FROM REFERENCED FINISH FLOOR ELEVATION.
12. "TRUSS T#" INDICATES TRUSS TYPE, SEE S200 SERIES FOR ELEVATIONS.
13. ALL EXPOSED STRUCTURAL STEEL (COLUMNS, ROOF TRUSSES, TRUSS BEARING & ETC) SHALL BE CONSIDERED AESS.
14. D2 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
15. "##k-ft" DENOTES FACTORED MOMENT TO BE USED IN DESIGN OF MOMENT CONNECTIONS.

ILM

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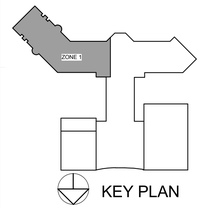


KEY PLAN

REVISIONS

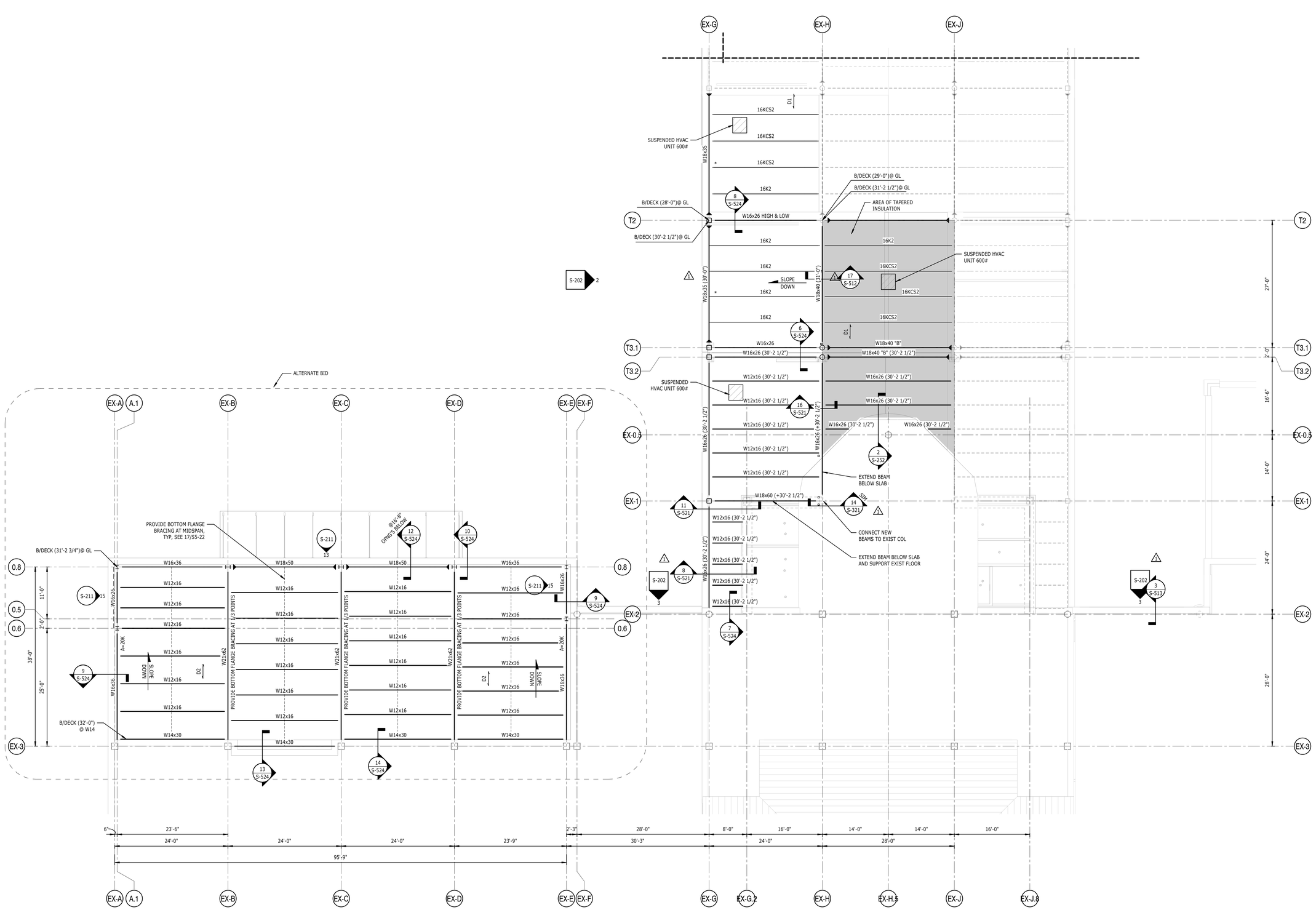
3 7/30/19 AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL ROOF FRAMING PLAN SCHEDULE 2 ZONE 1

SHEET NUMBER

S2-131



1 ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. (No) INDICATES TOP OF STEEL ELEVATION ABOVE REFERENCED FINISH FLOOR ELEVATION.
3. D1 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
4. ▶—— INDICATES MOMENT CONNECTION, SEE 19/S-511 FOR SCHEDULE.
5. SEE ELEVATIONS ON PLAN FOR VERTICAL FRAME LOCATIONS AND S-211 FOR ELEVATIONS AND DETAILS.
6. FOR TYPICAL ROOF FRAMING DETAILS, SEE S-521.
7. FOR STEEL COLUMN SCHEDULE, SEE 1/S-501.
8. "B" INDICATES BOTTOM FLANGE BEAM BRACING REQUIRED. BRACING SHALL BE PER DETAIL 19/S522. IF BRACING IS NOTED AT EXPANION JOINTS, INSTALL BRACING ONLY ON ONE SIDE. (3)
9. "*" INDICATES BOTTOM CHORD EXTENSION REQUIRED.
10. "A=#K" INDICATES FACTORED AXIAL FORCE IN COLLECTOR BEAM TO BE USED IN CONNECTION DESIGN.
11. "B/DECK (+#'-##")" INDICATES BOTTOM OF DECK ELEVATION FROM REFERENCED FINISH FLOOR ELEVATION.
12. "TRUSS T#" INDICATES TRUSS TYPE, SEE S200 SERIES FOR ELEVATIONS.
13. ALL EXPOSED STRUCTURAL STEEL (COLUMNS, ROOF TRUSSES, TRUSS BEARING & ETC) SHALL BE CONSIDERED AESS.
14. D2 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
15. "#'#k-ft" DENOTES FACTORED MOMENT TO BE USED IN DESIGN OF MOMENT CONNECTIONS.

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

NORTH CAROLINA PROFESSIONAL SEAL 024096 ENGINEER MICHAEL A. GARDINER
07/30/2019

THE WILSON GROUP
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LS3P

STRUCTURAL ENGINEER
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STEWART

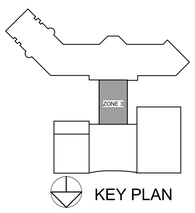
FP/P/M/E ENGINEER
CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
BNP

AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SINGAGE & WAYFINDING
TAKEFORM



KEY PLAN

REVISIONS

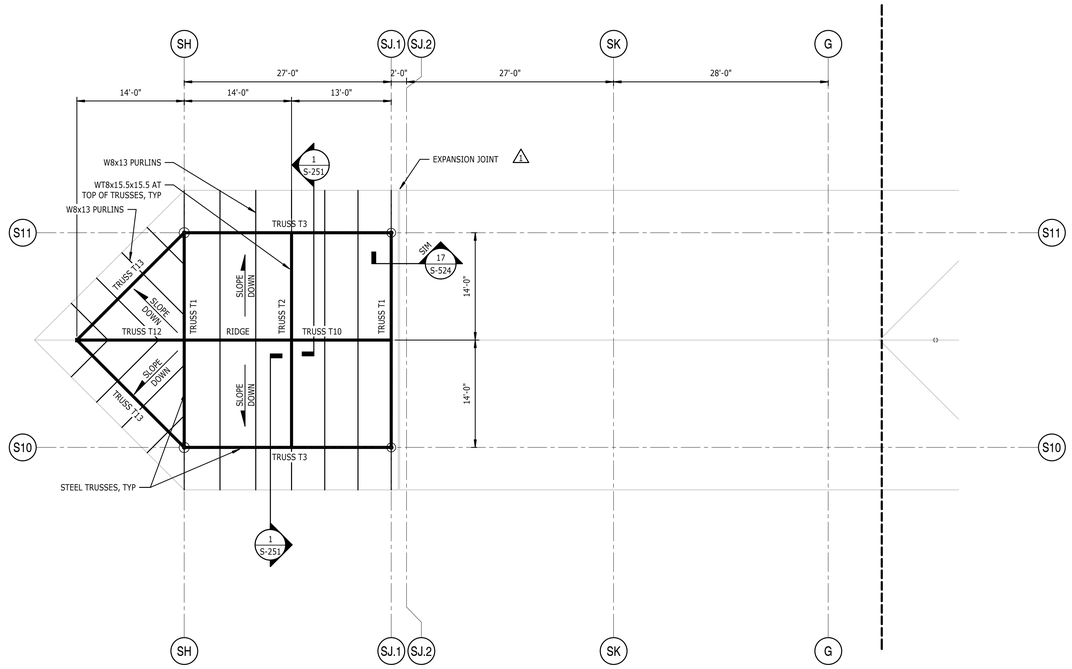
1	7/12/19	AD-01
3	7/30/19	AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

PARTIAL ROOF FRAMING PLAN SCHEDULE 2 ZONE 3

SHEET NUMBER

S2-133



1 S2-141 HIGH ROOF FRAMING PLAN SCHEDULE 2 ZONE 1

1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES AND ABBREVIATIONS, SEE S-001.
2. (No) INDICATES TOP OF STEEL ELEVATION ABOVE REFERENCED FINISH FLOOR ELEVATION.
3. D1 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
4. INDICATES MOMENT CONNECTION, SEE 19/S-511 FOR SCHEDULE.
5. SEE ELEVATIONS ON PLAN FOR VERTICAL FRAME LOCATIONS AND S-211 FOR ELEVATIONS AND DETAILS.
6. FOR TYPICAL ROOF FRAMING DETAILS, SEE S-521.
7. FOR STEEL COLUMN SCHEDULE, SEE 1/S-501.
8. "B" INDICATES BOTTOM FLANGE BEAM BRACING REQUIRED. BRACING SHALL BE PER DETAIL 19/S522. IF BRACING IS NOTED AT EXPANION JOINTS, INSTALL BRACING ONLY ON ONE SIDE. 1
9. "+" INDICATES BOTTOM CHORD EXTENSION REQUIRED.
10. "A=#K" INDICATES FACTORED AXIAL FORCE IN COLLECTOR BEAM TO BE USED IN CONNECTION DESIGN.
11. "B/DECK (+#'-##")" INDICATES BOTTOM OF DECK ELEVATION FROM REFERENCED FINISH FLOOR ELEVATION.
12. "TRUSS T#" INDICATES TRUSS TYPE, SEE S200 SERIES FOR ELEVATIONS.
13. ALL EXPOSED STRUCTURAL STEEL (COLUMNS, ROOF TRUSSES, TRUSS BEARING & ETC) SHALL BE CONSIDERED AESS.
14. D2 INDICATES STEEL DECK SPAN DIRECTION. CONSTRUCTION SHALL BE 1 1/2"18GA METAL DECK. SEE 1/S-521 FOR TYPICAL ROOF CONSTRUCTION DETAIL.
15. "##k-ft" DENOTES FACTORED MOMENT TO BE USED IN DESIGN OF MOMENT CONNECTIONS.

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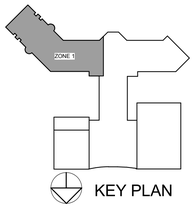

KEY PLAN

REVISIONS

1	7/12/19	AD-01
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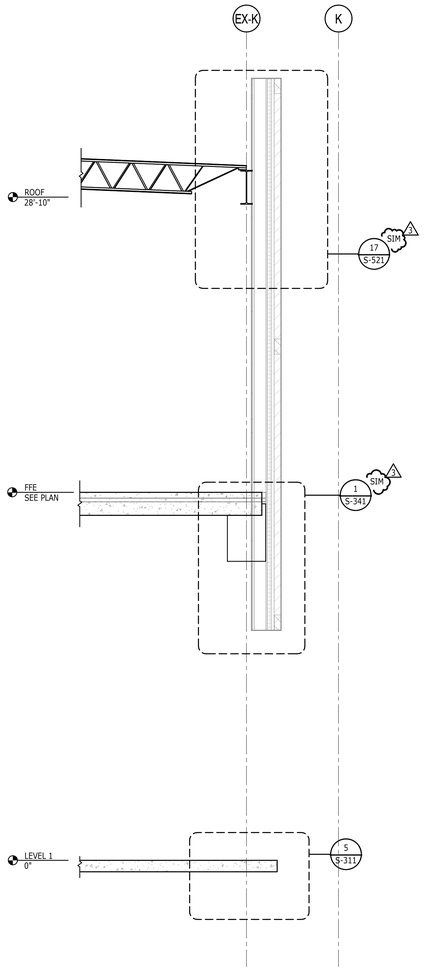
DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

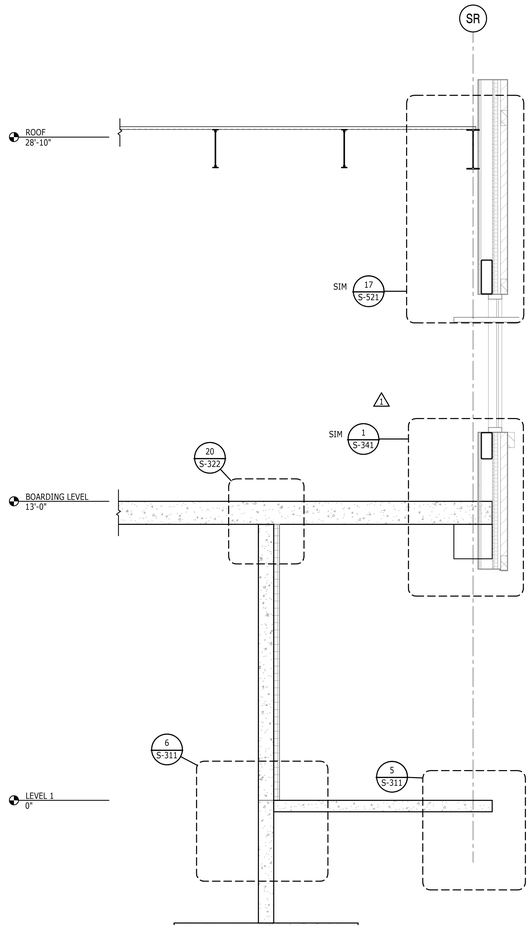
PARTIAL HIGH ROOF PLAN SCHEDULE 2 ZONE 1

SHEET NUMBER

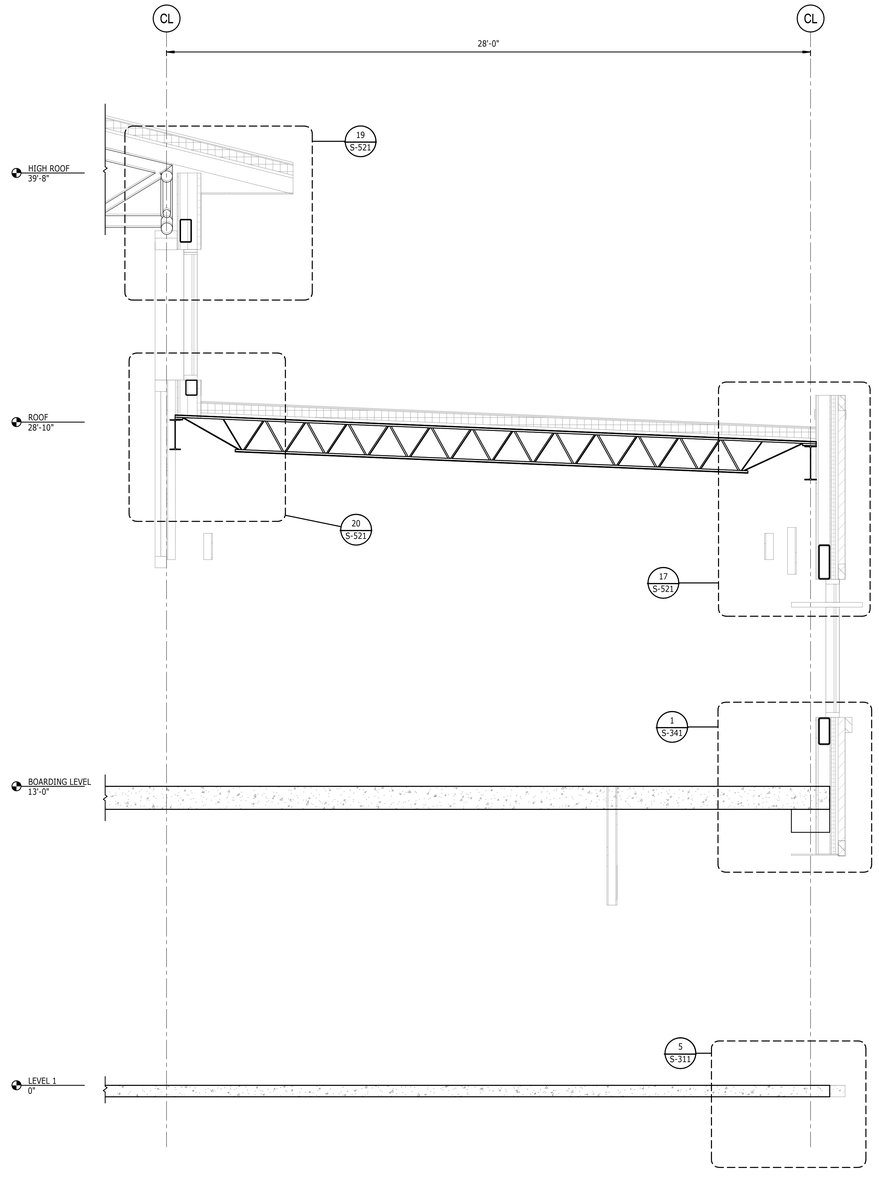
S2-141



3 SECTION
S-251 3/8" = 1'-0"



2 SECTION
S-251 3/8" = 1'-0"



1 SECTION
S-251 3/8" = 1'-0"

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1	7/12/19	AD-01
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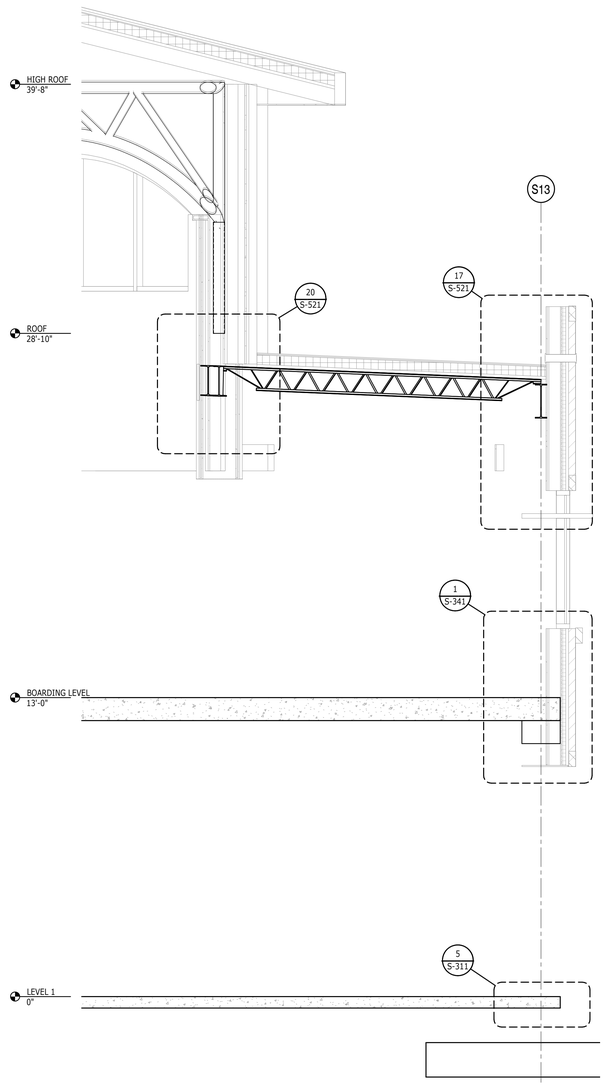
DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

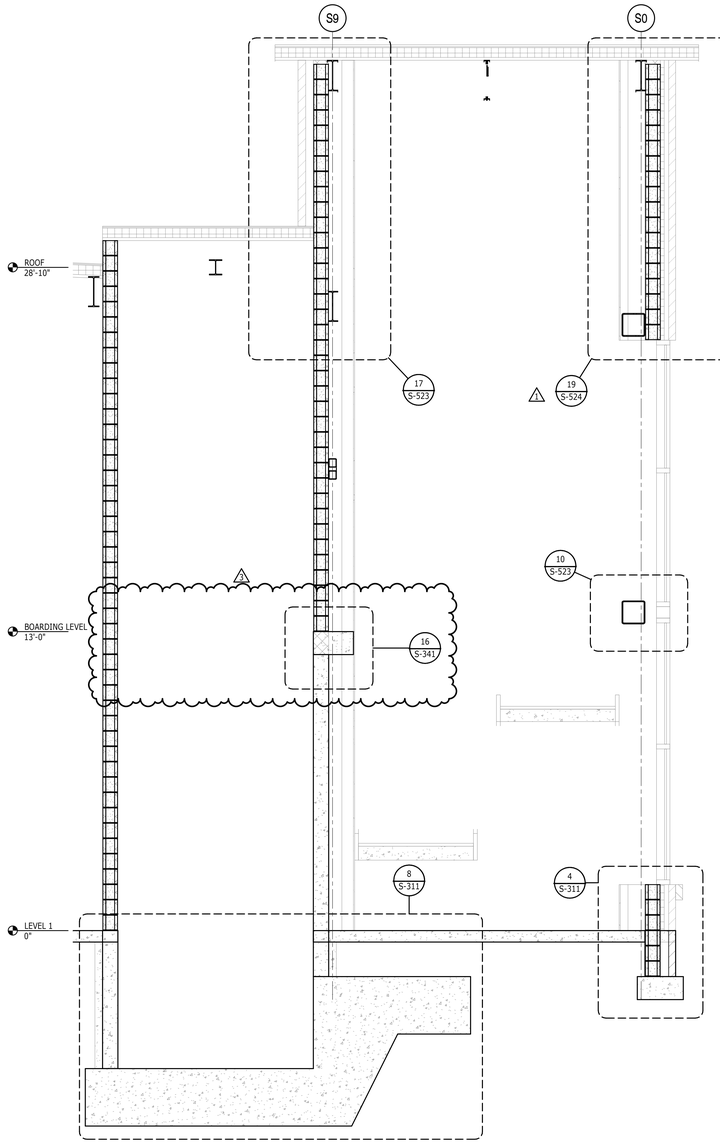
STRUCTURAL WALL SECTIONS

SHEET NUMBER

S-251



2 S-253 SECTION
3/8" = 1'-0"



1 S-253 SECTION
3/8" = 1'-0"

ILM

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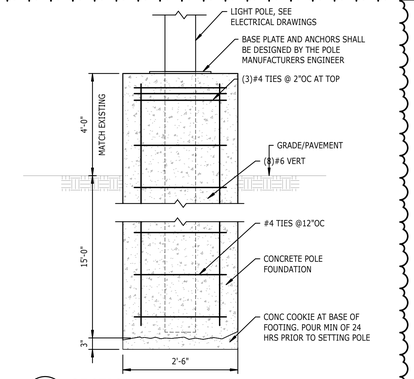
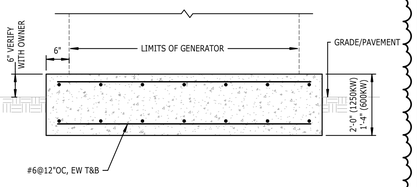
PROJECT NUMBER 9202-000
SHEET TITLE

STRUCTURAL WALL SECTIONS

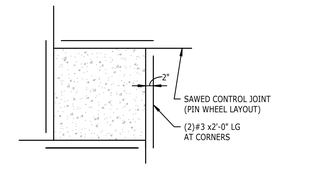
SHEET NUMBER
S-253



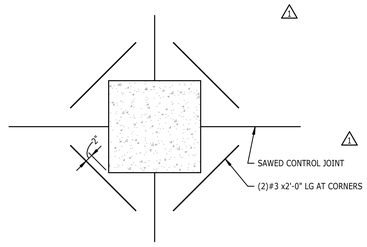
17 S-302 **SECTION**
TYPICAL LIGHT POLE FOUNDATION
3/4" = 1'-0"

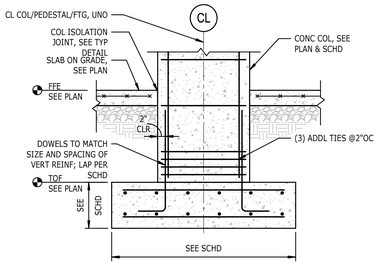


18 S-302 **TYPICAL GENERATOR FOUNDATION**
3/4" = 1'-0"



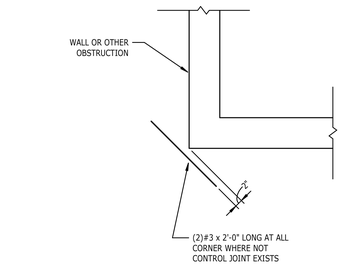
OPTIONAL LAYOUT (ONLY IF APPROVED/PERMITTED BY ARCHITECT)



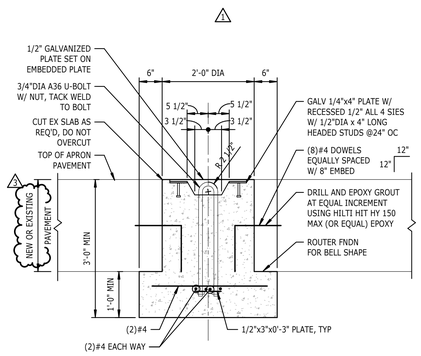


NOTES:
1. SEE SCHEDULES FOR SIZE, DEPTH, AND REINFORCING.
2. CENTERLINE OF COLUMN IS CENTERLINE OF FOOTING, UNLESS NOTED OTHERWISE.

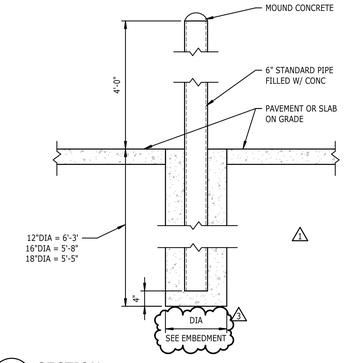
13 S-302 **SECTION**
TYPICAL SPREAD FOOTING AT CONCRETE COLUMN
NTS



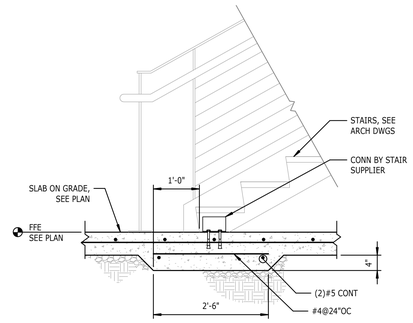
9 S-302 **DETAIL**
TYPICAL ELEVATED SLAB REINFORCING AT RE-ENTRANT CORNERS
NTS



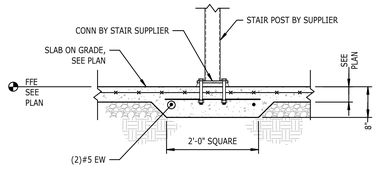
5 S-302 **SECTION**
TYPICAL JET BRIDGE TIE-DOWN FOUNDATION
NTS



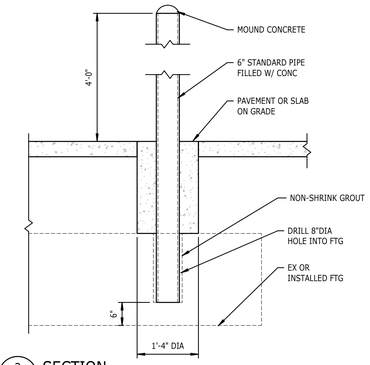
1 S-302 **SECTION**
TYPICAL PIPE BOLLARD DETAIL
NTS



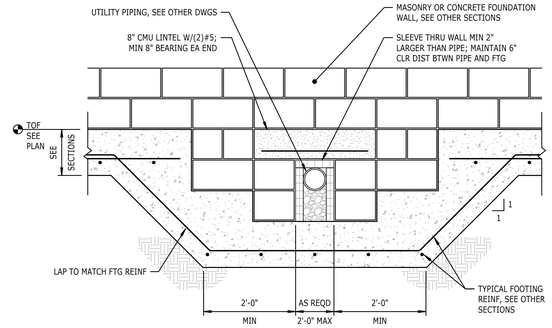
10 S-302 **SECTION**
THICKENED SLAB AT STAIR
NTS



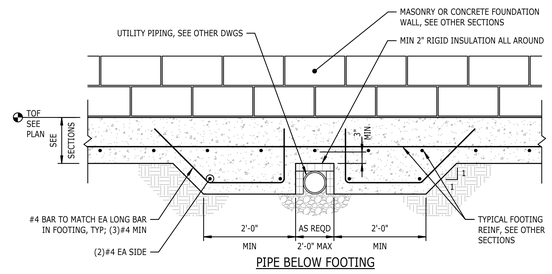
6 S-302 **SECTION**
TYPICAL THICKENED SLAB AT STAIR POST
NTS



2 S-302 **SECTION**
TYPICAL PIPE BOLLARD DETAIL
NTS

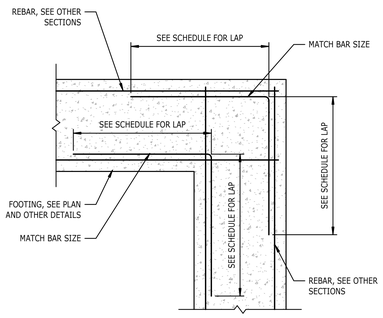


PIPE THRU FOOTING

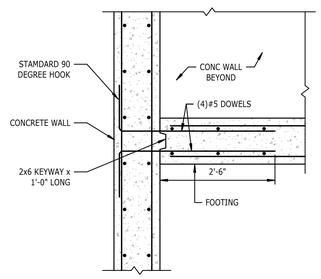


PIPE BELOW FOOTING

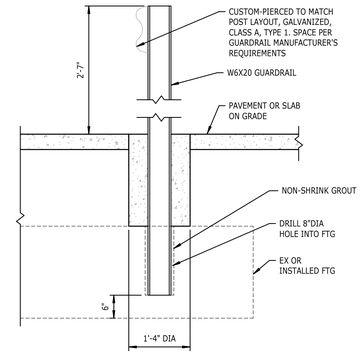
15 S-302 **SECTION**
TYPICAL UTILITY BELOW FOOTING
NTS



11 S-302 **TYPICAL FOOTING CORNER PLAN**
3/4" = 1'-0"



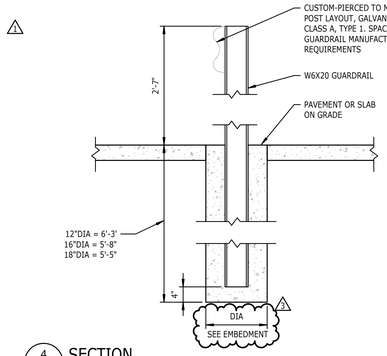
7 S-302 **SECTION**
TYPICAL FOOTING TO WALL CONNECTION
NTS



3 S-302 **SECTION**
TYPICAL VEHICLE GUARDRAIL AT FOOTING
NTS

TYPE	VERTICAL REINFORCING	HORIZONTAL REINFORCING
8" CONC SW	#5@8"OC	#5@10"OC

8 S-302 **SCHEDULE**
CONCRETE SHEAR TOWER REINFORCING
3/4" = 1'-0"
NOTES:
1. PROVIDE DOWELS EXTENDING INTO FOUNDATIONS FOR ALL VERTICAL REINFORCING BARS. SIZE AND LOCATION OF DOWELS TO MATCH VERTICAL REINFORCING.
2. PROVIDE BOUNDARY REINFORCING PER DETAIL 11,12, & 13/S300.
3. PROVIDE REINFORCING IN SCHEDULE UNO IN SECTION. IF CONTRADICTION EXISTS, PROVIDE LARGEST BAR SIZE AND SMALLEST SPACING.
4. REFER TO PLAN FOR SHEAR WALL LOCATION. ENDS OF SHEAR WALLS OCCUR AT WALL INTERRUPTIONS DUE TO COLUMNS, WINDOWS, DOORS, END OF WALL, CONTROL JOINTS, EXPANSION JOINTS, ETC. REFER TO DETAILS AT END OF WALL REINFORCING.



4 S-302 **SECTION**
TYPICAL VEHICLE GUARDRAIL DETAIL
NTS

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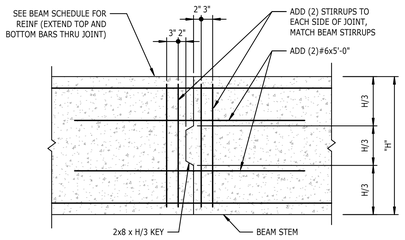
SHEET TITLE

FOUNDATION DETAILS

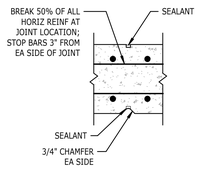
SHEET NUMBER
S-302

13
S-321

CONCRETE BEAM SCHEDULE									
CB MARK	CB WIDTH	CB DEPTH	CB TOP BARS - LEFT	CB TOP BARS - RIGHT	CB TOP BARS - CENTER	CB STIRRUPS - SIZE	CB STIRRUP SPACING	CB BOT BARS	CB NOTES
CB1	1'-8"	2'-0"	(6)#8	(6)#8	(6)#8	#4	(14)@5" OC EACH END, REMAINDER @9" OC	(6)#8	SEE PLAN FOR ADDITIONAL TOP BARS
CB2	1'-8"	2'-6"	(6)#8	(6)#8	(6)#8	#4	(10)@6" OC EACH END, REMAINDER @9" OC	(6)#8	SEE PLAN FOR ADDITIONAL TOP BARS
CB3	1'-4"	2'-0"	(5)#8	(5)#8	(5)#8	#4	@9" OC	(5)#8	SEE PLAN FOR ADDITIONAL TOP BARS
CB4	1'-6"	2'-0"	(6)#8	(6)#8	(6)#8	#4	@9" OC	(6)#8	SEE PLAN FOR ADDITIONAL TOP BARS
CB5	1'-8"	2'-0"	(6)#8	(6)#8	(6)#8	#4	(26)@3" OC EACH END REMAINDER @9" OC	(6)#8	SEE PLAN FOR ADDITIONAL TOP BARS
CB6	1'-8"	2'-0"	(8)#8	(8)#8	(8)#8	#4	(30)@ 2 1/2" OC EACH END, REMAINDER @4 1/2" OC	(10)#8	SEE PLAN FOR ADDITIONAL TOP BARS

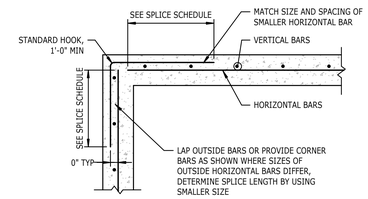


9 S-321 TYPICAL CONSTRUCTION JOINTS IN BEAMS
3/4" = 1'-0"

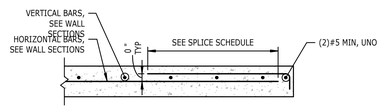


CONTROL JOINT (WCJ)

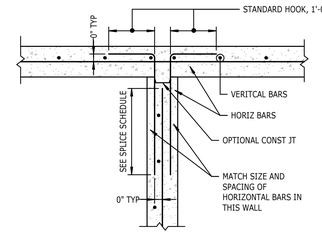
5 S-321 DETAIL
TYPICAL JOINTS IN CONCRETE WALLS
NTS
NOTES:
1. FOAM JOINT FILLER TO BE CLOSED CELL NEOPRENE FOAM.
2. SEALANT TO BE "TREMCO DYMERIC" OR EQUAL.
3. SUBMIT SAMPLES OF JOINT FILLER & SEALANT FOR APPROVAL.
4. ALL CHAMFERS TO BE ON EXPOSED FACE OF WALL.



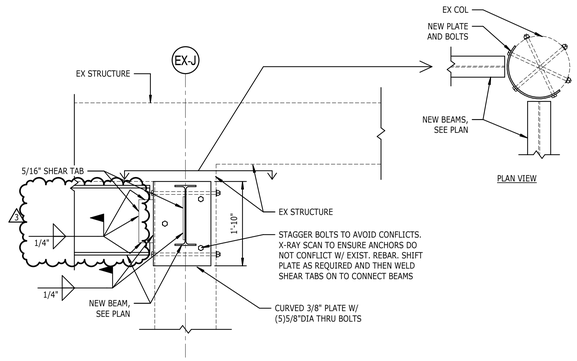
AT CORNERS



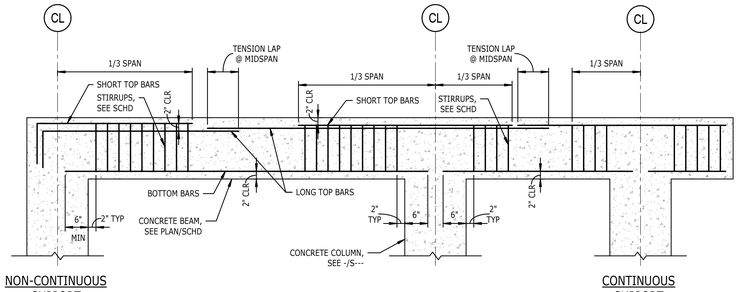
AT ENDS



AT INTERSECTIONS

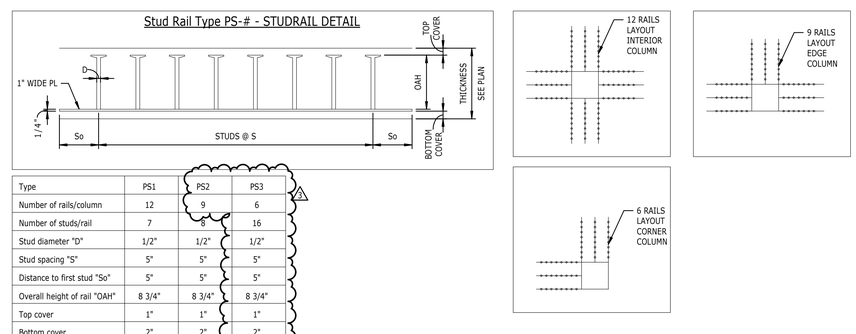


14 S-321 SECTION
3/4" = 1'-0"



6 S-321 TYPICAL CONCRETE BEAM ELEVATION
3/4" = 1'-0"

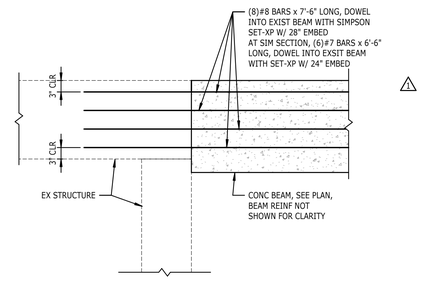
1 S-321 PLAN
TYPICAL HORIZONTAL WALL REINFORCING, SINGLE LAYER
3/4" = 1'-0"



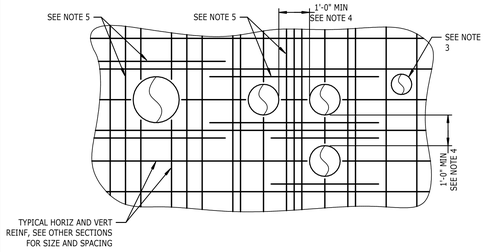
Type	PS1	PS2	PS3
Number of rails/column	12	9	6
Number of studs/rail	7	8	16
Stud diameter "D"	1/2"	1/2"	1/2"
Stud spacing "S"	5"	5"	5"
Distance to first stud "So"	5"	5"	5"
Overall height of rail "OAH"	8 3/4"	8 3/4"	8 3/4"
Top cover	1"	1"	1"
Bottom cover	2"	2"	2"

7 S-321 ELEVATED SLAB STUD RAILS SCHEDULE
1/8" = 1'-0"

3 S-321 DETAIL
NTS
NOTES:
1. WALL OPENINGS SHALL BE COORDINATED AND DETAILED ON THE REINFORCEMENT SHOP DRAWINGS.
2. OPENINGS NOT TO EXCEED 3'-0" IN EITHER DIRECTION.
3. MAXIMUM CORED OPENING WITHOUT SLEEVE SHALL BE 6" DIA MINIMUM CENTER TO CENTER SPACING OF CORED OPENINGS TO BE 1'-6".



12 S-321 SECTION
3/4" = 1'-0"



NOTES:
1. WALL OPENINGS SHALL BE COORDINATED AND DETAILED ON THE REINFORCEMENT SHOP DRAWINGS.
2. PROVIDE SLEEVES FOR ALL OPENINGS EXCEEDING 6" IN DIAMETER.
3. NO ADDITIONAL REINFORCING IS REQUIRED FOR OPENINGS NOT EXCEEDING 6" IN DIAMETER, PROVIDED NO TYPICAL REINFORCING IS INTERRUPTED.
4. PROVIDE 1'-0" MINIMUM SPACING BETWEEN EDGES OF OPENINGS, TYPICAL IN ALL DIRECTIONS FOR OPENINGS NOT EXCEEDING 18" IN DIAMETER. FOR OPENINGS BETWEEN 18" AND 30" IN DIAMETER, PROVIDE 2'-0" MINIMUM SPACING BETWEEN EDGES OF OPENINGS.
5. FOR OPENINGS EXCEEDING 6" IN DIAMETER AND FOR OPENINGS THAT INTERRUPT TYPICAL REINFORCING, PROVIDE ADDITIONAL VERTICAL REINFORCING BAR EACH SIDE OF OPENING. BAR SIZE TO MATCH TYPICAL VERTICAL REINFORCING. SPACING BETWEEN BARS SHALL BE 3". PROVIDE (2)#5 HORIZONTAL BARS EACH SIDE OF OPENING. MAINTAIN 3" SPACING BETWEEN BARS. BAR LENGTH SHALL BE TWO TIMES THE OPENING SIZE PLUS TWO TIMES THE BAR SPLICE LENGTH.
6. ALL PENETRATIONS TO BE CORE DRILLED SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PROCEEDING WITH THE WORK.

4 S-321 DETAIL
PENETRATIONS IN CONCRETE WALLS
NTS

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REVISIONS

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DATE 06/28/2019
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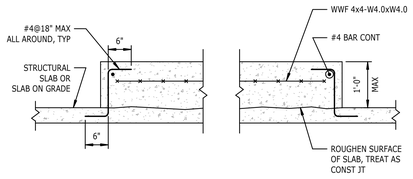
SHEET TITLE

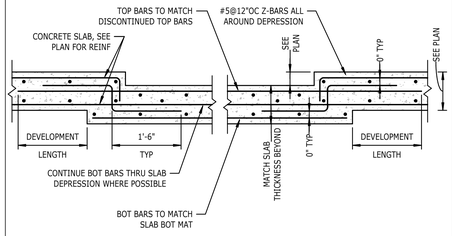
ELEVATED CONCRETE DETAILS

SHEET NUMBER
S-321

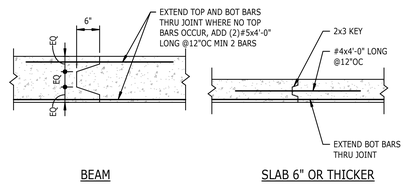


17 S-322 **DETAIL**
TYPICAL CONCRETE EQUIPMENT PAD
NTS

NOTES:
1. THE EXACT SIZE, SHAPE, AND LOCATION OF EQUIPMENT (HOUSEKEEPING) PAD(S) SHALL BE DETERMINED BY THE CONTRACTOR AFTER APPROVAL OF SHOP DRAWINGS FOR EQUIPMENT. ANCHOR BOLTS WHERE REQUIRED SHALL BE SIZED AND LOCATED ACCORDING TO MANUFACTURER'S REQUIREMENTS. PADS ON FRAMED SLABS SHALL NOT BE THICKER THAN 6", WHEN THICKER PADS ARE REQUIRED NOTIFY THE ARCHITECT.



13 S-322 **DETAIL**
TYPICAL DEPRESSION IN ELEVATED CONCRETE SLAB
NTS



9 S-322 **DETAIL**
TYPICAL CONSTRUCTION JOINTS IN FRAMED CONCRETE MEMBERS
NTS

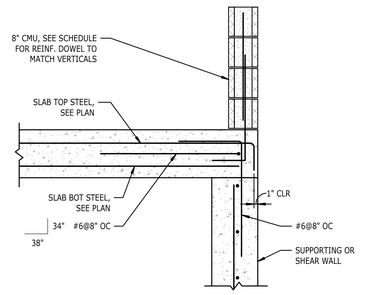
NOTES:
1. ALL KEYS ARE AT MID-DEPTH OF MEMBERS. LOCATE ALL JOINTS AT POINTS OF MINIMUM SHEAR. APPROVAL OF LOCATION BY THE ARCHITECT IS REQUIRED.

STRIP	BAR	MINIMUM % OF As AT SECT	DIAGRAM	REMARKS
COLUMN STRIP	TOP	65% / 35%	E, B, 2" TYP	E=0.30Ln W/OUT DROP PANELS E=0.33Ln W/ DROP PANELS B=0.20L X=STANDARD HOOK**
	BOTTOM	REMAINDER 2 BARS MIN (THRU COL)	6" MIN, P, S, X	P=30 BAR DIA. OR 1'-6" MIN S=0.125L MAX X=DEVELOPMENT LENGTH
MIDDLE STRIP	TOP	100%	C, X, 6" MIN LAP	C=0.22Ln X=STANDARD HOOK**
	BOTTOM	50% / 50%	6" MIN, 0.15L MAX	
			*Ln, FACE OF SUPPORT, *L, CL INTERIOR SUPPORT (CONTINUITY PROVIDED)	

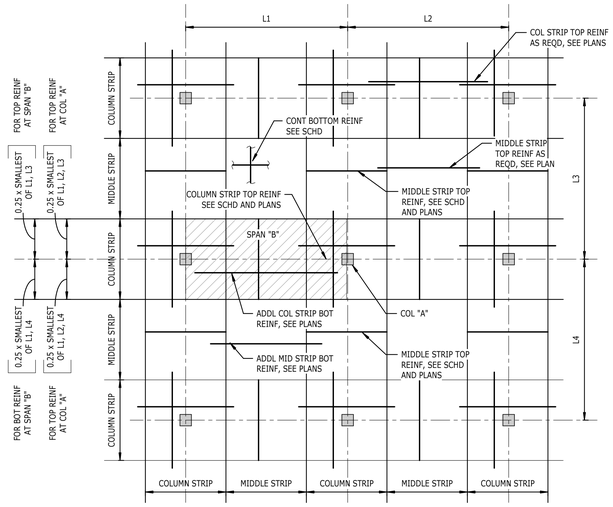
* WHERE ADJACENT SLAB SPANS ARE UNEQUAL, TOP BAR LENGTHS SHALL BE BASED ON LONGER SPAN.
** WHERE EXTERIOR SUPPORT IS A WALL, EXTEND HOOKED TOP BARS ONE SPLICE LENGTH MINIMUM INTO TOP OF WALL, UNO.

1 S-322 **DETAIL**
TYPICAL FLAT PLATE BAR CUT-OFF DIAGRAM
NTS

NOTES:
1. WHEN DRAWINGS REQUIRE LONG BAR CUT-OFF DIMENSION "E" TO BE INCREASED, DIMENSIONS "B" AND "C" SHALL BE INCREASED PROPORTIONALLY (B=0.61E, AND C=0.67E).
2. WHERE DRAWINGS INDICATE 100% OF COLUMN STRIP TOP REINFORCING TO BE LAPPED AT MIDSPAN, AT LEAST 50% OF ADJACENT MIDSTRIP REINFORCING SHALL ALSO BE LAPPED.

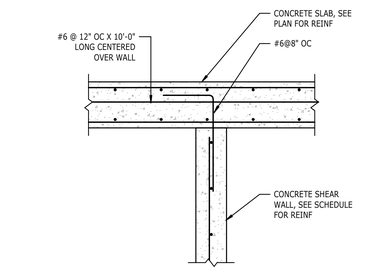


18 S-322 **SECTION**
TYPICAL SLAB/WALL CONDITION
3/4" = 1'-0"

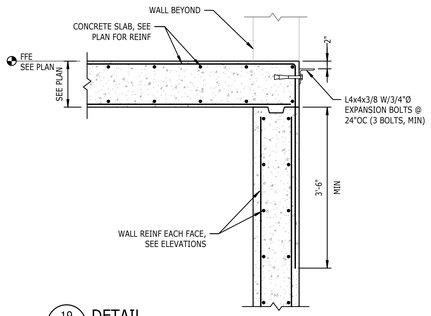


10 S-322 **DETAIL**
TYPICAL TWO-WAY FLAT PLATE REINFORCEMENT
NTS

NOTES:
1. SPACE MID STRIP REINFORCING EQUALLY BETWEEN ADJACENT COLUMN STRIPS.

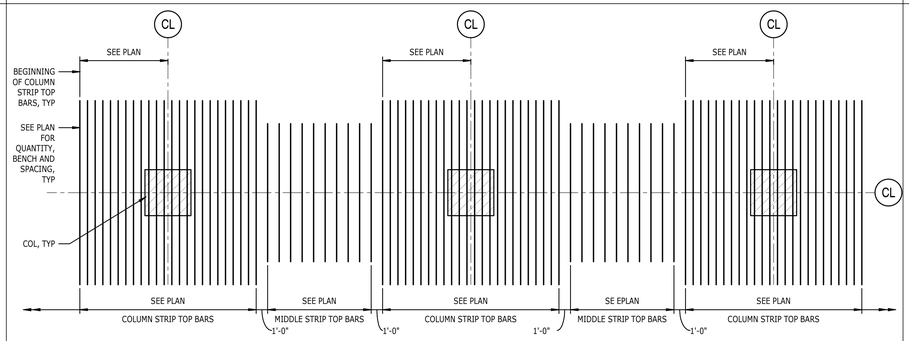


20 S-322 **SECTION**
TYPICAL AT CONCRETE SHEAR WALLS
3/4" = 1'-0"



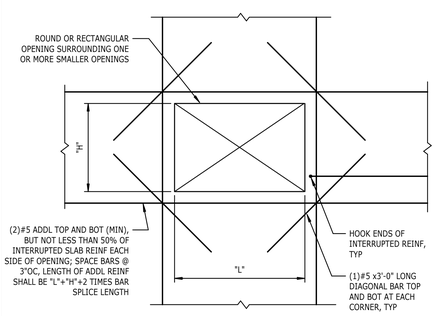
19 S-322 **DETAIL**
TYPICAL ELEVATOR SILL
NTS

NOTES:
1. COORDINATE ELEVATOR SILL REQUIREMENTS WITH ELEVATOR MANUFACTURER.



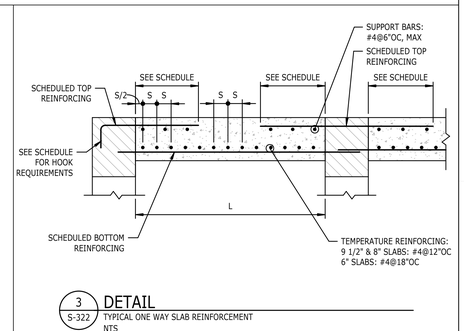
12 S-322 **DETAIL**
TYPICAL FLAT PLATE TOP BAR ARRANGEMENT PLAN
NTS

NOTES:
1. BARS SHOWN IN ONE DIRECTION ONLY FOR CLARITY. PROVIDE SAME DETAIL FOR TOP BARS IN THE OTHER DIRECTION ALSO.



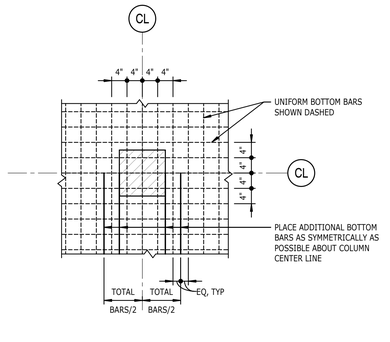
7 S-322 **DETAIL**
TYPICAL REINFORCING AT OPENINGS IN FRAMED CONCRETE SLABS
NTS

NOTES:
1. SLAB OPENINGS SHALL BE COORDINATED AND DETAILED ON THE REINFORCEMENT SHOP DRAWINGS.
2. OPENINGS NOT TO EXCEED 3'-0" IN EITHER DIRECTION.
3. MAXIMUM CORED OPENING WITHOUT SLEEVE SHALL BE 6"Ø. MINIMUM CENTER TO CENTER SPACING OF CORED OPENINGS TO BE 1'-6".

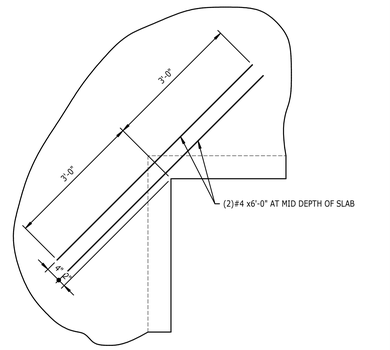


3 S-322 **DETAIL**
TYPICAL ONE WAY SLAB REINFORCEMENT
NTS

NOTES:
1. TEMPERATURE REINFORCEMENT SHALL BE PLACED PERPENDICULAR TO SCHEDULED REINFORCING STEEL, ABOVE BOTTOM SCHEDULED REINFORCEMENT. SEE DETAIL.
2. REFER TO SLAB SCHEDULE FOR ALL PRIMARY REINFORCING SIZES, LENGTHS, AND SPACINGS.
3. LAP ALL TEMPERATURE REINFORCEMENT AND SUPPORT BARS 30 BAR DIAMETERS, BUT NOT LESS THAN 12".
4. "S" DENOTES TEMPERATURE REINFORCEMENT SPACING.



8 S-322 **DETAIL**
TYPICAL FLAT PLATE BOTTOM BAR ARRANGEMENT PLAN
NTS



4 S-322 **DETAIL**
TYPICAL REINFORCING AT INSIDE CORNERS
NTS

NOTES:
1. DETAILS APPLIES AT ALL SLAB RE-ENTRANT CORNERS.

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REVISIONS

3	7/30/19	AD-03

DATE 06/28/2019
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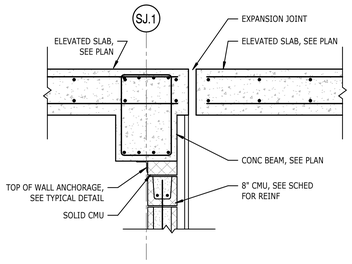
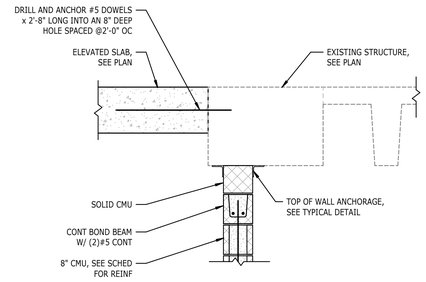
ELEVATED CONCRETE DETAILS

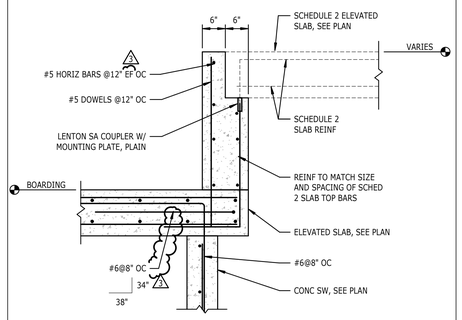
SHEET NUMBER
S-322



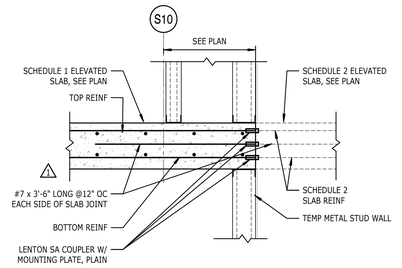
17 S-341 SECTION 3/4" = 1'-0"



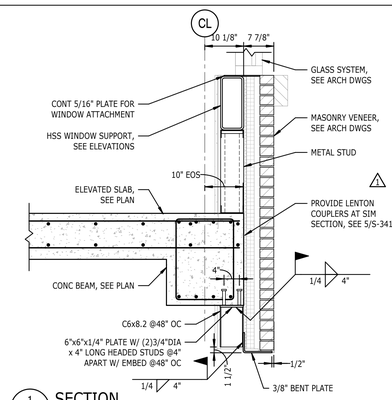
13 S-341 SECTION 3/4" = 1'-0"



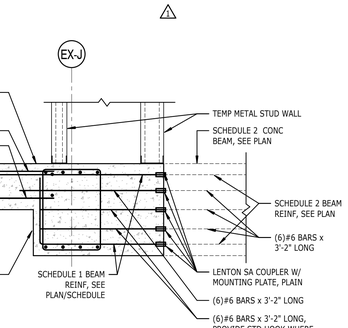
9 S-341 SECTION 3/4" = 1'-0"



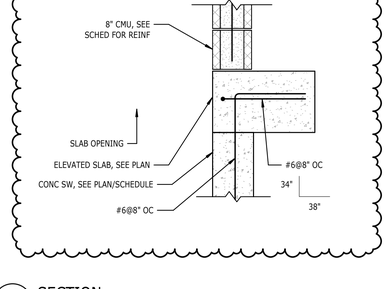
5 S-341 SECTION 3/4" = 1'-0"



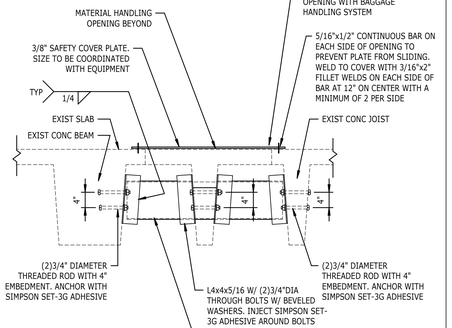
1 S-341 SECTION 3/4" = 1'-0"



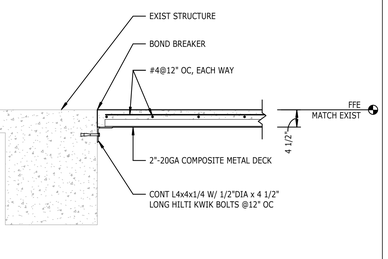
18 S-341 SECTION 3/4" = 1'-0"



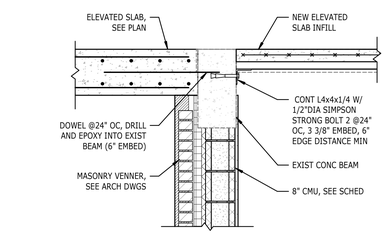
14 S-341 SECTION 3/4" = 1'-0"



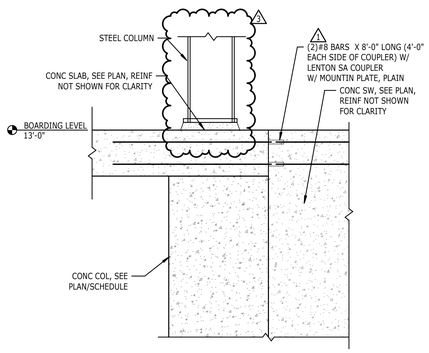
10 S-341 SECTION 3/4" = 1'-0"



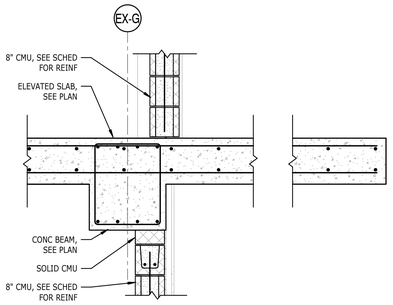
6 S-341 SECTION 3/4" = 1'-0"



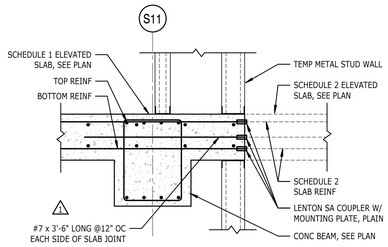
2 S-341 SECTION 3/4" = 1'-0"



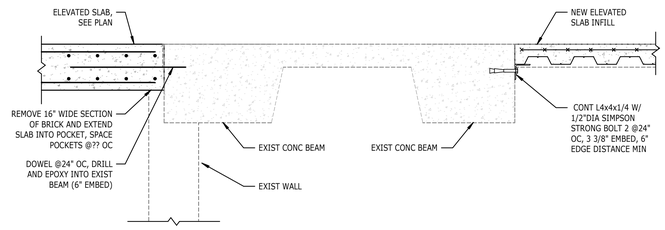
19 S-341 SECTION 3/4" = 1'-0"



15 S-341 SECTION 3/4" = 1'-0"



11 S-341 SECTION 3/4" = 1'-0"



3 S-341 SECTION 3/4" = 1'-0"

20 S-341 SECTION 3/4" = 1'-0"

16 S-341 SECTION 1" = 1'-0"

12 S-341 SLAB OPENING IN EXIST SLAB 3/4" = 1'-0"

8 S-341 SLAB INFILL SECTION 3/4" = 1'-0"

4 S-341 SECTION 3/4" = 1'-0"

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DATE 06/28/2019
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SHEET TITLE

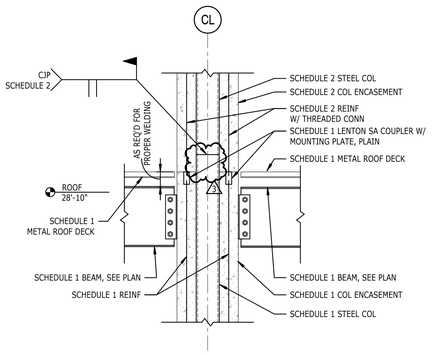
CONCRETE FLOOR SECTIONS

SHEET NUMBER

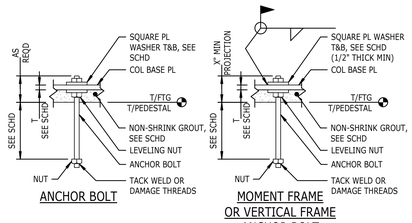
S-341

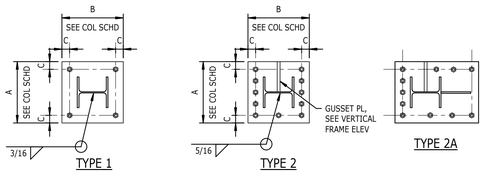
HIGH ROOF																															HIGH ROOF
40'-0" ROOF						W12x40	HSS6x0.375		W12x40	W12x40	W12x40	W12x40																			40'-0" ROOF
29'-2" BOARDING LEVEL	W10x33	W10x33	W12x50	W10x33	W10x33			HSS12x12x1/2					HSS12.750x0.375	W12x40	HSS12x12x1/2	HSS6x0.375	HSS6x0.375	HSS12.750x0.375	HSS12x12x1/2	HSS12.750x0.375	HSS12x12x1/2	HSS12x12x1/2	HSS12.750x0.375	HSS12x12x1/2	HSS12x12x1/2	HSS12.750x0.375	HSS12.750x0.375	HSS12x12x1/2	HSS12x12x1/2	HSS12.750x0.375	HSS12x12x1/2	29'-2" BOARDING LEVEL
13'-4" LEVEL 1																															13'-4" LEVEL 1
4"																															4"
Column Locations	A.1-0.6	A.1-0.8	EX-B-0.8, EX-C-0.8, EX-D-0.8	EX-E-0.5	EX-E-0.8	G-S9	G-S10, G-S11, K-S10, K-S11, S10-SJ.2, S10-SK, S10-SL, S10-SM.1, S10-SM.2, S10-SN, S10-EX-H, S10-EX-J, S11-SJ.2, S11-SK, S11-SL, S11-SM.1, S11-SM.2, S11-SN, S11-EX-H, S11-EX-J	G-S12, K-S12, S1-SQ, S1-SR, S4.1-S12, S4.1-SR, S9-V, S9-SF, S9-SG, S9-SH, S9-SJ.1, S9-SJ.2, S9-SM.1, S9-SM.2, S9-SN, S9-SP, S12-SH, S12-SJ.1, S12-SJ.2, S12-SK, S12-SL, S12-SM.1, S12-SM.2, S12-SN	K-S9	S0-SK, S0-SL, S9-SL	S0-EX-G	S0-EX-K	S2-SQ, S2-SR, S3.1-SR, S10-SG, S10-SP, S11-SP	S9-SK	S9-EX-H, S9-EX-J, S12-EX-H, S12-EX-J	S10-SH, S10-SJ.1	S11-SH, S11-SJ.1	S13-EX-H, S13-EX-J	T2-EX-G	T2-EX-H, T2-EX-J, T3.1-EX-J	T2-EX-K	T3.1-EX-G	T3.1-EX-H	T3.1-EX-K	T3.2-EX-G, EX-1-EX-G	T3.2-EX-H	T3.2-EX-J	T3.2-EX-K	T6-EX-G, T6-EX-K	T6-EX-H, T6-EX-J	EX-1-EX-K	

1 / S-501 STEEL COLUMN SCHEDULE
1/16" = 1'-0"



4 / S-501 SECTION
COLUMN SPLICE DETAIL
NTS

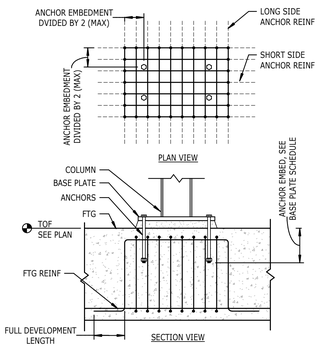




BOLT SIZE	3/4"Ø	1"Ø	1 1/4"Ø	1 1/2"Ø	1 3/4"Ø	2"Ø
DIMENSION "C"	1 1/2"	2"	2"	2 1/4"	2 1/2"	2 3/4"
SQUARE PL WASHER SIZE	1/4"x2"	3/8"x3"	1/2"x3"	1/2"x3 1/2"	5/8"x4"	3/4"x5"
GROUT THICKNESS	2"	2"	2"	3"	3"	3"

3 / S-501 STEEL COLUMN BASE PLATES
3/4" = 1'-0"

TYPE	LONG SIDE	SHORT SIDE
A	(6)#6	(6)#6



1 / S-501 TYPICAL ANCHOR BOLT REINFORCING
3/4" = 1'-0"

2 / S-501 STEEL COLUMN BASE PLATE SCHEDULE

LOCATION	SIZE	BASE PLATE SIZE	ANCHOR BOLTS	PATTERN TYPE	EMBEDMENT DEPTH	NOTES
A.1-0.6	W10x33	1 1/4"x24"x18"	(14)1 1/4"Ø	2C	27"	ANCHOR ROD REINFORCING TYPE A
A.1-0.8	W10x33	1 1/4"x24"x18"	(14)1 1/4"Ø	2C	27"	ANCHOR ROD REINFORCING TYPE A
EX-1-EX-G	HSS12x12x1/2	3/4"x18"x18"	(4)3/4"Ø	1	9"	
EX-1-EX-K	HSS12x12x1/2	3/4"x18"x18"	(4)3/4"Ø	1	9"	
EX-B-0.8	W12x50	1 1/4"x20"x26"	(8)1"Ø	2C	14"	
EX-C-0.8	W12x50	1 1/4"x20"x31"	(8)1"Ø	2B	14"	
EX-D-0.8	W12x50	1 1/4"x20"x26"	(8)1"Ø	2C	14"	
EX-E-0.5	W10x33	1 1/4"x18"x24"	(14)1 1/4"Ø	2C	27"	ANCHOR ROD REINFORCING TYPE A
EX-E-0.8	W10x33	1 1/4"x18"x24"	(14)1 1/4"Ø	2C	27"	ANCHOR ROD REINFORCING TYPE A
G-S9	W12x40	1 1/4"x18 3/4"x18 3/4"	(10)1"Ø	2	18"	
G-S12	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
K-S9	W12x40	1 1/4"x18 3/4"x18 3/4"	(10)1"Ø	2	18"	
K-S12	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S0-SK	W12x40	1 1/4"x18 3/4"x18 3/4"	(10)1"Ø	2	18"	
S0-SL	W12x40	1 1/4"x18 3/4"x18 3/4"	(10)1"Ø	2	18"	
S1-SQ	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
S1-SR	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S2-SQ	HSS12.750x0.375	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
S2-SR	HSS12.750x0.375	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S3.1-SR	HSS12.750x0.375	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S4.1-S12	HSS12x12x1/2	3/4"x18"x18"	(4)3/4"Ø	1	9"	
S4.1-SR	HSS12x12x1/2	1 1/4"x18"x18"	(4)3/4"Ø	1	9"	
S9-EX-H	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
S9-EX-J	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
S9-SF	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
S9-SG	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S9-SH	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S9-SJ.1	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S9-SJ.2	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S9-SK	W12x40	1 1/4"x18 3/4"x24"	(10)1"Ø	2A	18"	
S9-SL	W12x40	1 1/4"x18 3/4"x24"	(10)1"Ø	2A	18"	
S9-SM.1	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
S9-SM.2	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S9-SN	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S9-SP	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S9-V	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
S10-SG	HSS12.750x0.375	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S10-SP	HSS12.750x0.375	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S11-SP	HSS12.750x0.375	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S12-EX-H	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S12-EX-J	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S12-SH	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S12-SJ.1	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S12-SJ.2	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S12-SK	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S12-SL	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S12-SM.1	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S12-SM.2	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S12-SN	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S13-EX-H	HSS12.750x0.375	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
S13-EX-J	HSS12.750x0.375	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
T2-EX-G	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
T2-EX-H	HSS12.750x0.375	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
T2-EX-J	HSS12.750x0.375	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
T2-EX-K	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
T3.1-EX-G	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
T3.1-EX-H	HSS12.750x0.375	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
T3.1-EX-J	HSS12.750x0.375	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
T3.1-EX-K	HSS12x12x1/2	1 1/4"x18"x18"	(16)3/4"Ø	4	26"	
T3.2-EX-G	HSS12x12x1/2	3/4"x18"x18"	(4)3/4"Ø	1	9"	
T3.2-EX-H	HSS12.750x0.375	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
T3.2-EX-J	HSS12.750x0.375	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
T3.2-EX-K	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
T6-EX-G	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
T6-EX-H	HSS12.750x0.375	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
T6-EX-J	HSS12.750x0.375	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	
T6-EX-K	HSS12x12x1/2	1 1/4"x18"x18"	(10)3/4"Ø	3	26"	

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

NORTH CAROLINA PROFESSIONAL SEAL 024096 ENGINEER MICHAEL A. GARDINER
07/30/2019

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SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SINGAGE & WAYFINDING
TAKEFORM

REVISIONS

3 7/30/19 AD-03

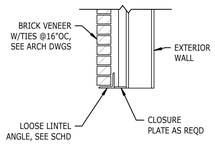
DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

STEEL COLUMN SCHEDULES AND DETAILS

SHEET NUMBER

S-501

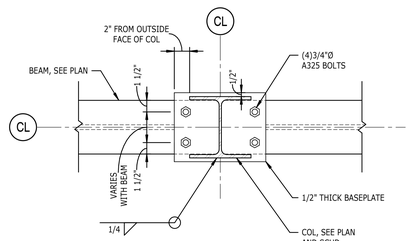
STEEL LOOSE LINTEL ANGLE SUPPORTING BRICK VENEER	
CLEAR OPENING	LOOSE LINTEL ANGLE
UP TO 5'-0"	L4x4x3/8
5'-1" TO 8'-0"	L6x4x3/8 (LLV)
8'-1" TO 10'-0"	L7x4x3/8 (LLV)
10'-1" TO 12'-0"	L8x4x1/2 (LLV)



17 S-511 SCHEDULE

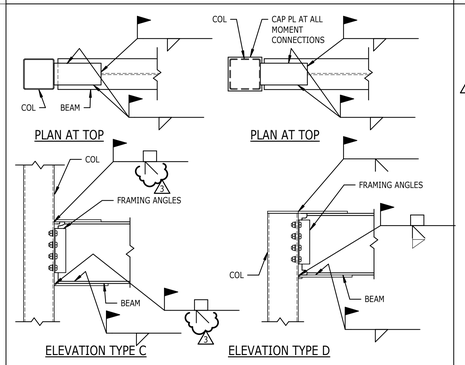
STEEL LOOSE LINTEL ANGLES SUPPORTING BRICK VENEER
NTS

NOTES:
1. ALL LOOSE LINTELS SHALL BE PAINTED OR GALVANIZED, SEE ARCHITECTURAL DRAWINGS.
2. PROVIDE 6" MINIMUM BEARING FOR OPENINGS UP TO 8'-0" WIDE. PROVIDE 8" MINIMUM BEARING FOR OPENINGS OVER 8'-0" WIDE.
3. SEE ARCHITECTURAL DRAWINGS FOR ANGLE PLACEMENT AND FLASHING.
4. LOOSE LINTEL ANGLES ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF OPENINGS REQUIRING ANGLES.
5. FOR CLEAR OPENING DIMENSIONS GREATER THAN THOSE SHOWN IN THE SCHEDULE, SEE OTHER DETAILS OR CONTACT THE ENGINEER OF RECORD.



18 S-511 DETAIL

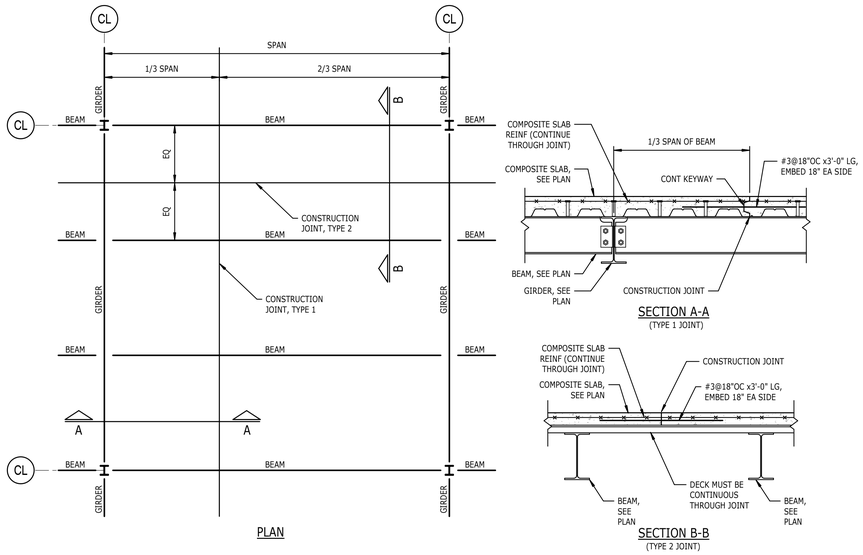
TYPICAL COLUMN BEARING ON BEAM
NTS



19 S-511 SCHEDULE

MOMENT CONNECTION SCHEDULE AND DETAILS
NTS

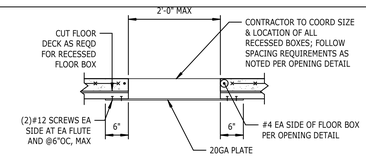
NOTES:
1. PROVIDE ULTRASONIC TESTING AT FULL PENETRATION WELDS.
2. ALL MOMENT CONNECTIONS TO BE DESIGNED FOR A FACTORED LOAD OF 75k-ft UNO ON PLAN.



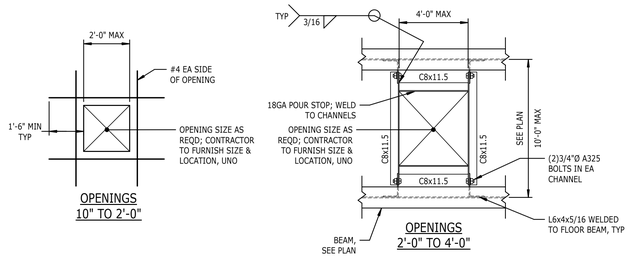
9 S-511 DETAIL

TYPICAL CONSTRUCTION JOINTS IN COMPOSITE DECK
NTS

NOTES:
1. CONTRACTOR SHALL SUBMIT LOCATION OF ALL CONSTRUCTION JOINTS FOR APPROVAL PRIOR TO CONSTRUCTION AND FABRICATION.



RECESSED FLOOR BOX

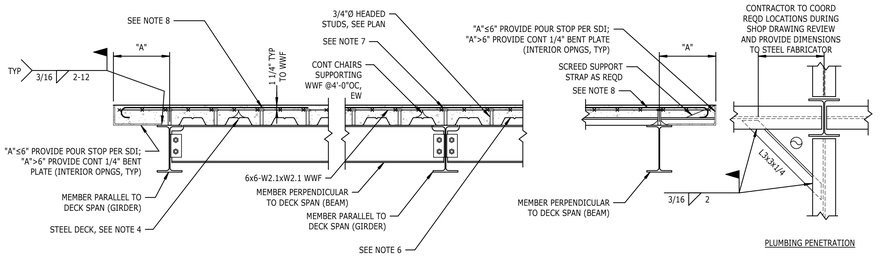


NOTES:
1. PROVIDE REINFORCING AROUND ALL DUCT PENETRATIONS, CHASES, ELECTRICAL BOXES, PLUMBING PIPES, AND OTHER OPENINGS IN SLABS, FOR OPENINGS FROM 10"x10" (OR 10"Ø) TO 2'-0"x2'-0" (OR 24"Ø).
2. OPENINGS THAT ARE SPACED CLOSER THAN (2) TIMES THE OPENING SIZE SHALL BE CONSIDERED ONE OPENING.
3. MINIMUM CLEAR DISTANCE BETWEEN OPENINGS IS 2'-0".
4. ALL OPENINGS 10" TO 2'-0" MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS.
5. OPENINGS GREATER THAN 2'-0" NOT SHOWN ON STRUCTURAL DRAWINGS REQUIRE APPROVAL BY THE ENGINEER OF RECORD.

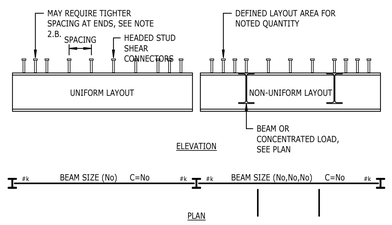
NOTES:
1. PROVIDE CHANNEL FRAMING AROUND ALL DUCT PENETRATIONS, CHASES, ELECTRICAL BOXES, PLUMBING PIPES, AND OTHER OPENINGS IN SLABS, FOR OPENINGS LARGER THAN 2'-0"x2'-0" (OR 24"Ø).
2. OPENINGS THAT ARE SPACED CLOSER THAN (2) TIMES THE OPENING SIZE SHALL BE CONSIDERED ONE OPENING.
3. MINIMUM CLEAR DISTANCE BETWEEN OPENINGS IS 1'-0".
4. OPENINGS GREATER THAN 2'-0" NOT SHOWN ON STRUCTURAL DRAWINGS REQUIRE APPROVAL BY THE ENGINEER OF RECORD.

12 S-511 DETAIL

TYPICAL FRAMING AROUND SLAB OPENINGS
NTS

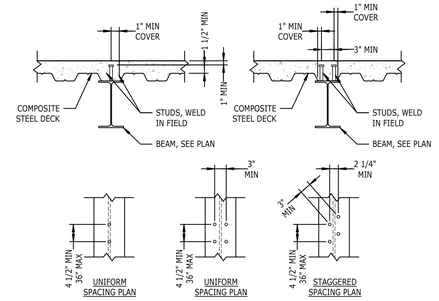


NOTES:
1. THIS DETAIL APPLIES TO DECK SUPPORTED COMPOSITE SLABS, AS INDICATED ON PLANS.
2. WELD DECK TO SUPPORTS PER FLOOR DECKING ATTACHMENT DETAIL.
3. SUPPORT DECK AROUND COLUMNS WITH COLUMN CLOSURE. WHERE PLUMBING LINES ARE ADJACENT TO COLUMNS, PROVIDE ANGLES TO SUPPORT DECK PER PLUMBING PENETRATION DETAIL.
4. MINIMUM STEEL DECK PROPERTIES: 2"-20 GAGE COMPOSITE DECK WITH Ip=0.409 in4/ft, In=0.406 in4/ft, Sp=0.341 in3/ft, Sn=0.346 in3/ft, AND Fy=50 ksi.
5. COMPOSITE SLABS HAVE BEEN DESIGNED AS "UNSHORED CONSTRUCTION".
6. DECK SHALL BE CONTINUOUS OVER (2) OR MORE SPANS, TYPICAL. IF A SINGLE SPAN CONDITION IS REQUIRED AND SUPPORT BEAM SPACING EXCEEDS 8'-5", CONTRACTOR SHALL SHORE AREA.
7. PROVIDE #4@12"OC x6'-0" LONG TOP BARS CENTERED OVER ALL GIRDERS RUNNING PARALLEL TO DECK SPAN. PLACE BARS OVER WWF AND PROVIDE 3/4" MINIMUM COVER. PROVIDE SUPPORT CHAIRS @4'-0"OC EACH WAY. ROTATE IF REQUIRED TO FIT IN SLAB THICKNESS.
8. AT INTERIOR AND EXTERIOR SLAB EDGES, PROVIDE #4@12"OC x5'-0" LONG TOP BARS WITH STANDARD 180° HOOKS AT ONE END AS SHOWN WHERE DIMENSION "A" EXCEEDS 10". PROVIDE 3/4" MINIMUM COVER. DIMENSION "A" SHALL NOT EXCEED 2'-0" UNLESS SPECIFICALLY DETAILED OTHERWISE.
9. THE CONTRACTOR SHALL ASSUME CONCRETE OVERAGES IN ELEVATED DECK POURS DUE TO MEMBER AND DECK DEFLECTIONS. UNLESS SHOWN ON PLANS, BEAMS ARE NOT CAMBERED. CONCRETE OVERAGES MAY BE CALCULATED BY THE CONTRACTOR FOR BEAM DEFLECTIONS EQUALING L/300 INCLUDING ADDITIONAL DEFLECTIONS DUE TO PONDING AND DECK DEFLECTIONS PER SDI.



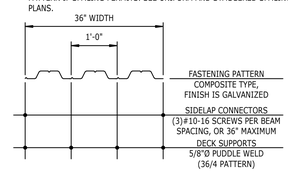
STUD LAYOUT

NOTES:
1. ALL STUDS SHALL BE FIELD WELDED TO CENTERLINE OF BEAMS, UNO.
2. UNIFORM LAYOUT:
   A. METAL DECK IS PARALLEL WITH BEAM - UNIFORMLY SPACE ALL STUDS EQUALLY ALONG THE ENTIRE LENGTH OF BEAM. FOLLOW MAXIMUM AND MINIMUM SPACING NOTED.
   B. METAL DECK IS PERPENDICULAR TO BEAM - TAKE THE TOTAL QUANTITY OF STUDS NOTED AND COMPARE TO THE NUMBER OF RIBS IN THE DECK. IF THE QUANTITY IS LESS THAN THE NUMBER OF RIBS, THEN LOCATE ONE STUD IN EVERY OTHER RIB ALONG THE LENGTH OF THE BEAM. THEN, STARTING AT THE SECOND RIB FROM THE END AT BOTH ENDS OF THE BEAM, LAYOUT THE REMAINING STUDS IN THE OPEN RIBS WORKING YOUR WAY TOWARD THE CENTER. YOU WILL END UP WITH A TIGHTER SPACING NEAR THE SUPPORTS. IF THE QUANTITY OF STUDS EXCEED THE NUMBER OF RIBS, THEN A DOUBLE ROW OF STUDS WILL BE REQUIRED NEAR THE ENDS OF THE BEAM. LOCATE ONE STUD IN EACH RIB ALONG THE LENGTH OF THE BEAM, KEEPING IN MIND THE CLEARANCES FOR A DOUBLE STUD INSTALLATION NEAR THE ENDS. THEN LOCATE THE ADDITIONAL STUDS STARTING AT THE FIRST RIB FROM THE SUPPORT AS A DOUBLE STUD INSTALLATION, WORKING YOUR WAY TOWARD THE CENTER FROM BOTH ENDS.
3. NON-UNIFORM LAYOUT:
   A. METAL DECK IS PARALLEL WITH BEAM - UNIFORMLY SPACE THE NOTED QUANTITY OF STUDS EQUALLY BETWEEN TWO FRAMING BEAMS OR CONCENTRATED LOADS BOUNDING THE AREA. FOLLOW MAXIMUM AND MINIMUM SPACINGS NOTED.
   B. METAL DECK IS PERPENDICULAR TO BEAM - FOLLOW THE SAME PROCEDURE NOTED IN ITEM 2.B. ABOVE. HOWEVER, THE LAYOUT OF THE STUDS FOR EACH QUANTITY IS LOCATED BETWEEN TWO FRAMING BEAMS OR CONCENTRATED LOADS BOUNDING THE AREA.
4. "(No)" INDICATES NUMBER OF SHEAR STUDS REQUIRED FOR ENTIRE BEAM LENGTH IF ONLY ONE QUANTITY IS NOTED. IF MULTIPLE QUANTITIES ARE NOTED, THEN NON-UNIFORM SPACING WILL BE REQUIRED.
5. "#k" INDICATES BEAM DESIGN END REACTION IN KIPS (UNFACTORED LOADS). MINIMUM BEAM REACTION TO BE 10k, UNO.
6. "C=No" INDICATES REQUIRED BEAM CAMBER IN INCHES.



STUD CLEARANCES AND SPACING

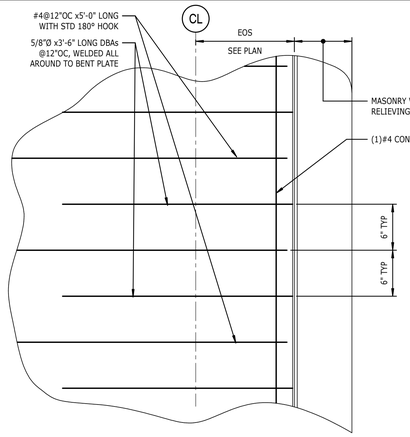
NOTES:
1. BEAM PARALLEL TO DECK CONDITION SHOWN. BEAM PERPENDICULAR TO DECK CONDITION IS SIMILAR.
2. WHEN DOUBLE ROW OF STUDS IS REQUIRED, USE A STAGGERED PATTERN IF SPACING PERMITS. SEE UNIFORM AND STAGGERED SPACING PLANS.



FLOOR DECK ATTACHMENT DETAIL

1 S-511 DETAIL

TYPICAL COMPOSITE SLAB DETAILS
NTS



4 S-511 DETAIL

TYPICAL EDGE OF SLAB AT BRICK RELIEVING ANGLE
NTS

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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REVISIONS

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DATE 06/28/2019
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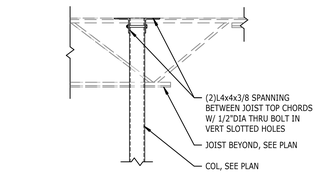
SHEET TITLE

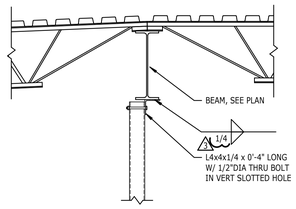
STRUCTURAL FLOOR SECTIONS

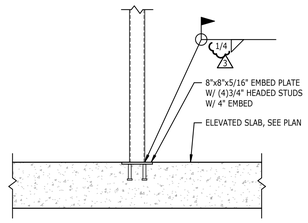
SHEET NUMBER

S-511

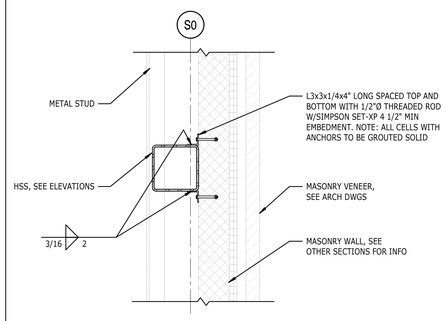


ALTERNATE TOP OF COLUMN BRACE

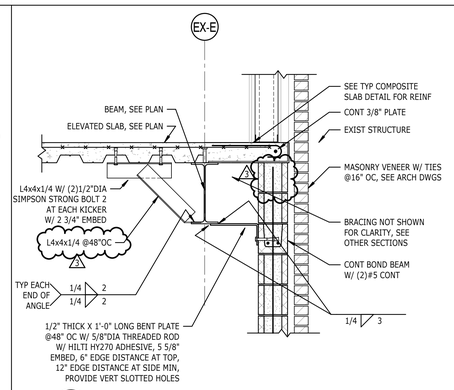




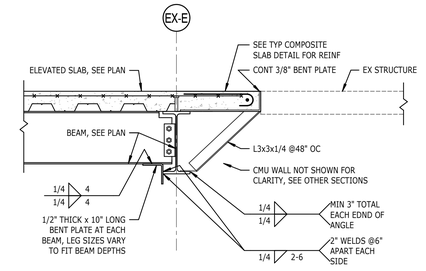
17 S-512 SECTION
3/4" = 1'-0"



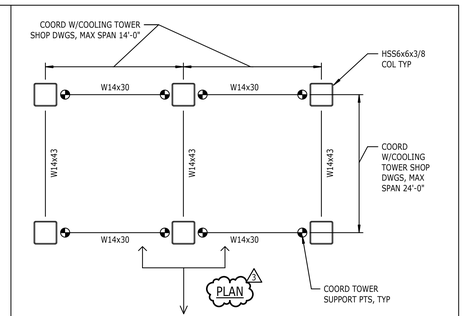
13 S-512 SECTION
3/4" = 1'-0"

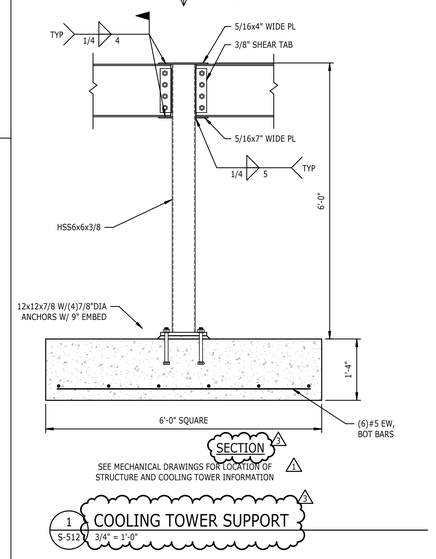


9 S-512 SECTION
3/4" = 1'-0"

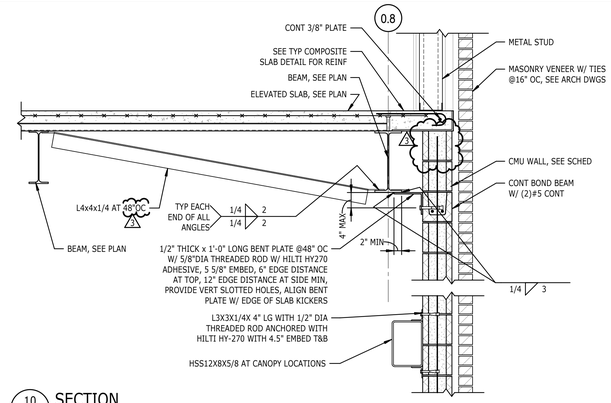


5 S-512 SECTION
3/4" = 1'-0"

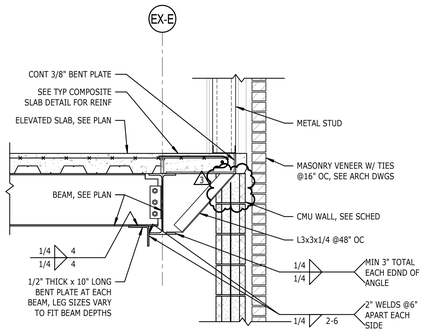




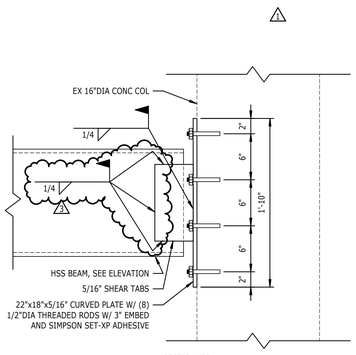
1 S-512 COOLING TOWER SUPPORT
3/4" = 1'-0"



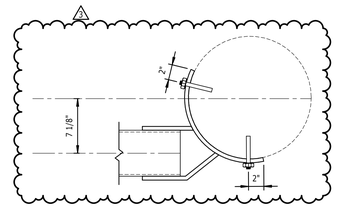
10 S-512 SECTION
3/4" = 1'-0"



6 S-512 SECTION
3/4" = 1'-0"



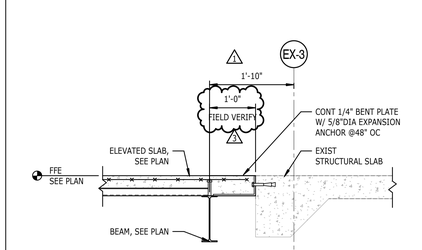
SECTION VIEW



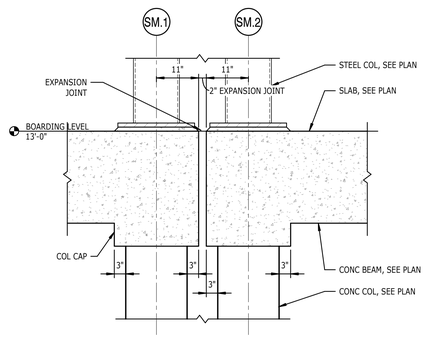
TOP VIEW

NOTE:
1. USE X-RAY SCAN TO ENSURE ANCHORS DO NOT CONFLICT W/ EXIST REBAR. SHIFT PLATE AS REQ'D AND THEN WELD SHEAR TABS ON TO CONNECT BEAM.

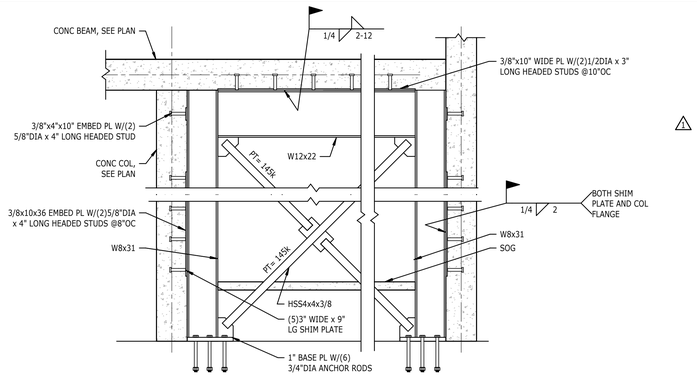
19 S-512 SECTION
1 1/2" = 1'-0"



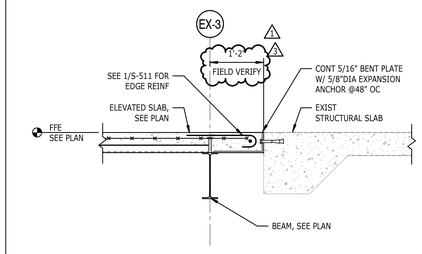
15 S-512 SECTION
3/4" = 1'-0"



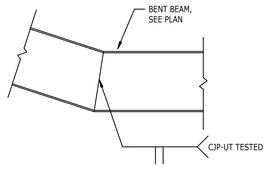
11 S-512 SECTION
3/4" = 1'-0"



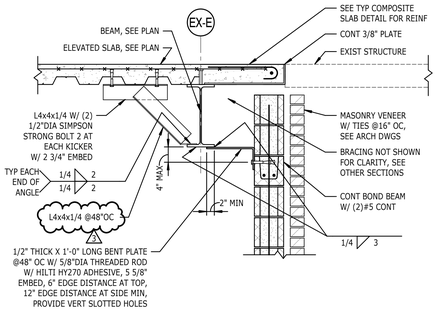
3 S-512 ELEVATION TEMPORARY BRACE ELEVATION
3/4" = 1'-0"



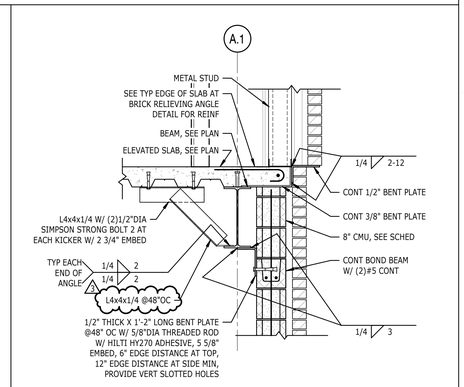
16 S-512 SECTION
3/4" = 1'-0"



12 S-512 SECTION
TYPICAL BENT BEAM DETAIL
NTS



8 S-512 SECTION
3/4" = 1'-0"



4 S-512 SECTION
3/4" = 1'-0"

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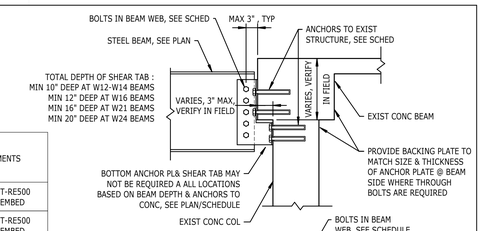
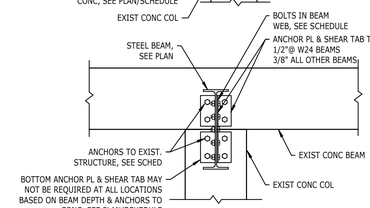
SHEET TITLE

STRUCTURAL FLOOR SECTIONS

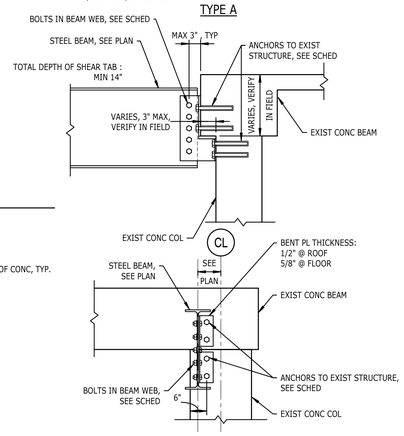
SHEET NUMBER
S-512

TYPE	LOCATION	BOLTS AT BEAM WEB	BOLTS AT CONCRETE COLUMN			COMMENTS
			NUMBER AND SIZE	VERT SPACING	HORIZ SPACING	
A	EXB-EX3 (W12x16 FLOOR)	(3)3/4"DIA	(6)1"DIA HAS RODS	8"	6"	HILTI HIT-RE500 W/10" EMBED
A	EXC-EX3 (W12x16 FLOOR)	(3)3/4"DIA	(6)1"DIA HAS RODS	8"	6"	HILTI HIT-RE500 W/10" EMBED
A	EXB-EX3 (W21x62 ROOF)	(5)3/4"DIA	(8)5/8"DIA HAS RODS	8"	5"	HILTI HIT-RE500 W/8" EMBED
A	EXC-EX3 (W21x62 ROOF)	(5)3/4"DIA	(8)5/8"DIA HAS RODS	8"	5"	HILTI HIT-RE500 W/8" EMBED
A	EXD-EX3 (ROOF)	(5)3/4"DIA	(8)5/8"DIA HAS RODS	8"	5"	HILTI HIT-RE500 W/8" EMBED
A	EXE-EX3 (ROOF)	(4)3/4"DIA	(6)5/8"DIA HAS RODS	8"	5"	HILTI HIT-RE500 W/6" EMBED
A	EXB-EX3 (W14x30 ROOF)	(3)3/4"DIA	(6)5/8"DIA HAS RODS	8"	5"	HILTI HIT-RE500 W/6" EMBED
A	EXC-EX3 (W14x30 ROOF)	(3)3/4"DIA	(6)5/8"DIA HAS RODS	8"	5"	HILTI HIT-RE500 W/6" EMBED
B	A.1-EX3 (ROOF)	(4)3/4"DIA	(5)5/8"DIA HAS RODS	6"	N/A	HILTI HIT-RE500 W/6" EMBED
B	A.1-EX3 (FLOOR)	(4)1"DIA	(5)1"DIA HAS RODS	8"	N/A	HILTI HIT-RE500 W/12" EMBED
A	EXB-EX3 (W24x55 FLOOR)	(7)1"DIA	(8)1"DIA HAS RODS	8"	6"	THROUGH BOLT W/HILTI-RE500
A	EXC-EX3 (W24x62 FLOOR)	(7)1"DIA	(8)1"DIA HAS RODS	8"	6"	THROUGH BOLT W/HILTI-RE500
A	EXD-EX3 (FLOOR)	(7)1"DIA	(8)1"DIA HAS RODS	8"	6"	THROUGH BOLT W/HILTI-RE500
A	EXE-EX3 (FLOOR)	(4)1"DIA	(6)1"DIA HAS RODS	8"	6"	HILTI HIT-RE500 W/10" EMBED





TYPE A

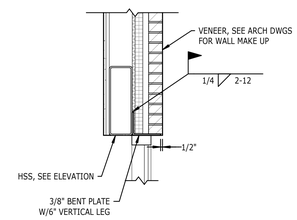


TYPE B

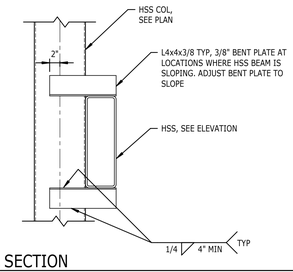
1 S-513 **DETAIL**

NEW BEAM TO EXISTING COLUMN CONNECTION SCHEDULE AND DETAILS
3/4" = 1'-0"

NOTES:
1. ALL COLUMNS TO BE X-RAYED FOR LOCATING REBAR AND STIRRUPS BEFORE DRILLING.
2. AT CIRCULAR COLUMNS, BEND PLATES FLUSH TO CONCRETE SURFACE.
3. AT ROOF LOCATIONS, THE TOP ANCHOR INTO THE EXISTING CONCRETE STRUCTURE MUST BE 5" FROM THE TOP OF CONC, TYP.
4. SLOTTED HOLES IN BEAM WEBS ARE NOT PERMITTED.



3 S-513 **SECTION**
3/4" = 1'-0"



4 S-513 **SECTION**
1" = 1'-0"

ILM

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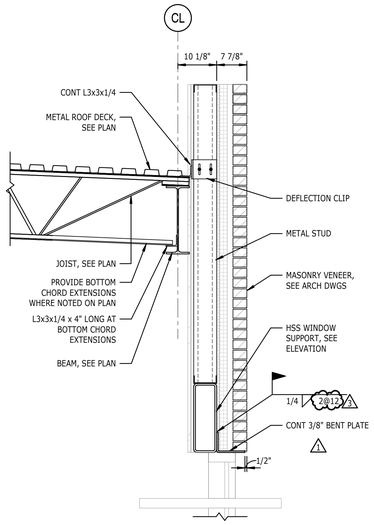
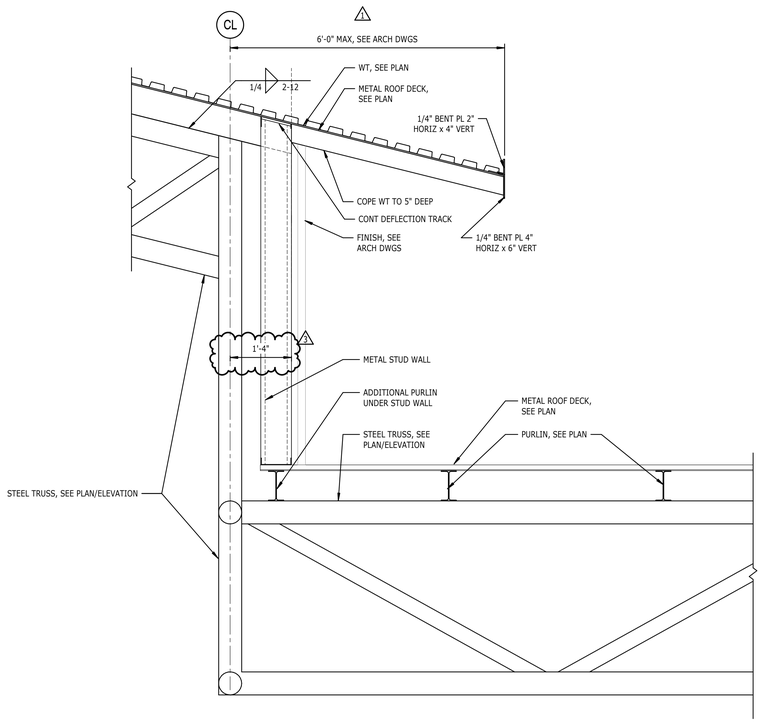
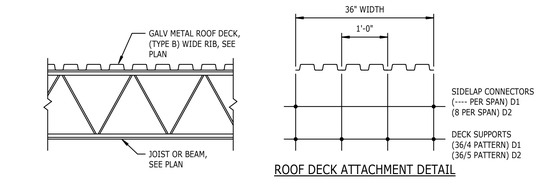


17 S-521 SECTION
3/4" = 1'-0"



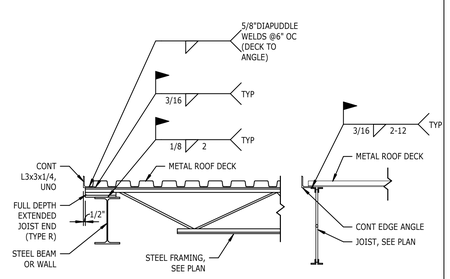
9 S-521 SECTION
3/4" = 1'-0"



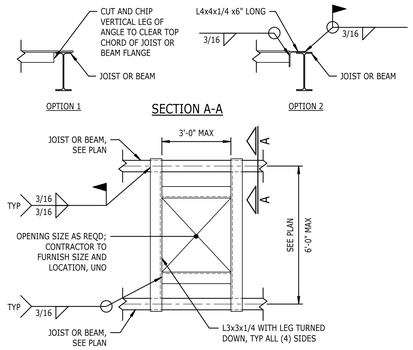
ROOF DECK ATTACHMENT DETAIL

NOTES:
1. ATTACH DECK TO SUPPORTING MEMBERS WITH 5/8"DIA PUDDLE WELDS. USE #10-16 FOR SIDELAP ATTACHMENT.
2. AT DECK BEARING SUPPORTS, PROVIDE 5/8"DIA PUDDLE WELDS AT SPECIFIED ATTACHMENT PATTERN.
3. AT SUPPORTS PARALLEL TO DECK SPAN, PROVIDE 5/8"DIA PUDDLE WELDS AT SPECIFIED ATTACHMENT PATTERN.
4. AT DECK SIDELAPS/PERIMETER EDGE, PROVIDE SCREWS AT SPECIFIED ATTACHMENT PATTERN, TYPICAL. WELDING OF SIDELAPS IS NOT PERMITTED FOR 22GA DECK.
5. MINIMUM DECK PROPERTIES: 1 1/2"-22 GAGE; Ip=0.155 in4/ft; Sp=0.186 in3/ft; In=0.183 in4/ft; Sn=0.192 in3/ft; Fy=33 ksi. 1 1/2"-18 GAGE; Ip=0.289 in4/ft; Sp=0.318 in3/ft; In=0.295 in4/ft; Sn=0.329 in3/ft; Fy=33 ksi.
6. DECK SHALL BE CONTINUOUS OVER (2) OR MORE SPANS, TYPICAL.
7. SIDELAP FASTENING MUST BE SCREWED AS DESCRIBED ABOVE.
8. CONTRACTOR OPTION TO SUBMIT MECHANICAL FASTENERS BY HILTI, SIMSPON STRONG-TIE, OR APPROVED EQUAL. SUBSTITUTION REQUESTS FOR PRODUCTS MAY BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD (EOR) FOR REVIEW. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS THAT MEET THE CODE REQUIREMENTS FOR DECK ATTACHMENT, POSSESS A FM GLOBAL APPROVAL AND POSSESS A CODE REPORT (ICC-ES) RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT PERFORMANCE VALUES OF THE DESIGN BASIS PRODUCT. CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR PRODUCT INSTALLATION TRAINING AND A LETTER SHALL BE SUBMITTED TO THE EOR INDICATING TRAINING HAS TAKEN PLACE. FASTENERS SHALL BE COLLATED AND INSTALLED USING THE MANUFACTURER'S DELIVERY TOOL AND FOLLOWING MANUFACTURER'S INSTRUCTIONS.

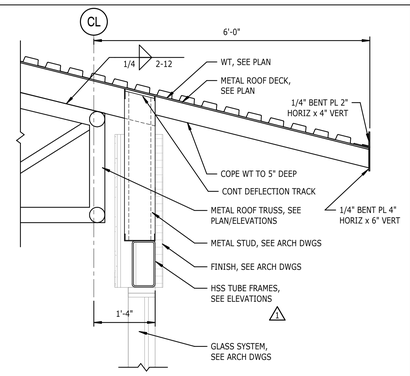
1 S-521 DETAIL
TYPICAL ROOF CONSTRUCTION, 1 1/2" METAL ROOF DECK
NTS



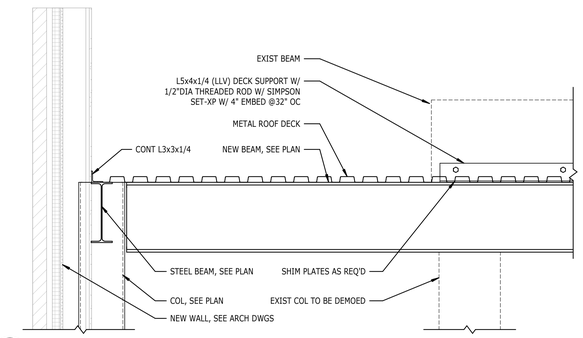
4 S-521 SECTION
TYPICAL EDGE DETAIL AT ROOF
NTS
NOTES:
1. SEE OTHER DETAILS FOR INFORMATION NOT SHOWN.



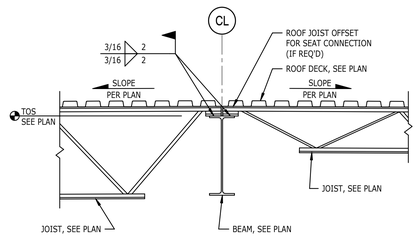
2 S-521 DETAIL
TYPICAL FRAMING AROUND ROOF OPENINGS, 1 1/2" METAL ROOF DECK
NTS
NOTES:
1. PROVIDE ANGLE FRAMING AROUND ALL OPENINGS LARGER THAN 10"x10" (10"Ø).



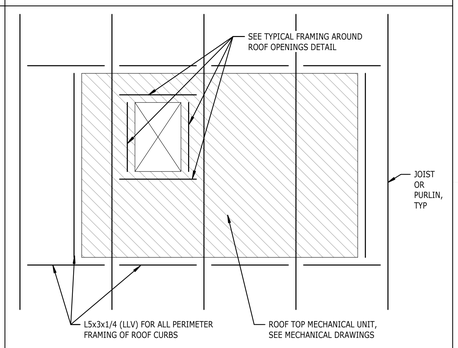
19 S-521 SECTION
3/4" = 1'-0"



11 S-521 SECTION
3/4" = 1'-0"

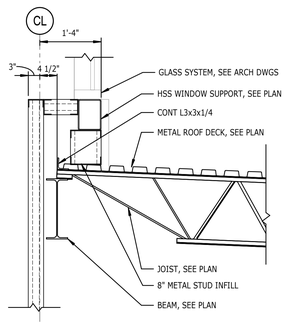


6 S-521 SECTION
JOIST BEARING AT RIDGE
NTS

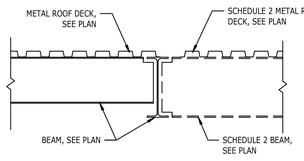


5 S-521 DETAIL
TYPICAL ROOF TOP MECHANIAL UNIT FRAMING
NTS

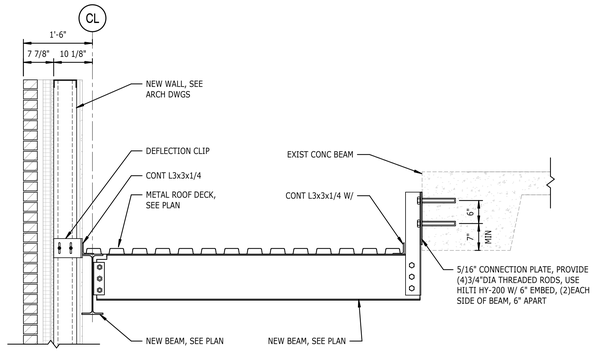
NOTES:
1. ALL MEMBERS NOT SIZED ON FRAMING PLAN SHALL BE L5x3x1/4.



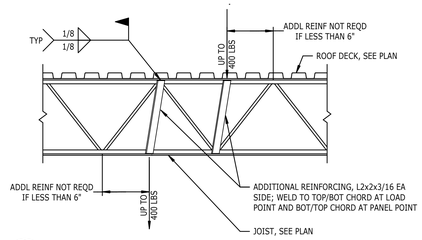
20 S-521 SECTION
3/4" = 1'-0"



16 S-521 SECTION
3/4" = 1'-0"



8 S-521 SECTION
3/4" = 1'-0"



3 S-521 DETAIL
TYPICAL REINFORCING FOR CONCENTRATED LOADS ON STEEL JOISTS
NTS
NOTES:
1. WHERE POSSIBLE, ALL LOADS ARE TO BE SUPPORTED FROM PANEL POINTS. WHERE NOT POSSIBLE, PROVIDE REINFORCEMENT AS DETAILED.
2. LOADS LESS THAN 100 LBS REQUIRE NO ADDITIONAL REINFORCING. LOADS LARGER THAN 400 LBS PER JOIST REQUIRE SPECIAL SUPPORT CONDITIONS TO BE APPROVED BY THE ENGINEER OF RECORD.
3. BOTTOM CHORDS EXTENDING UNSUPPORTED PAST THE FIRST BOTTOM PANEL POINT TOWARD JOIST BEARING LOCATION ARE NOT TO BE USED TO SUPPORT ANY LOAD WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF RECORD.

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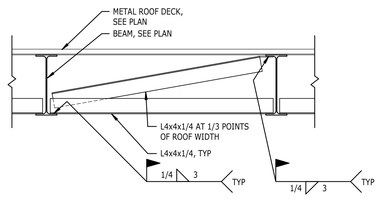
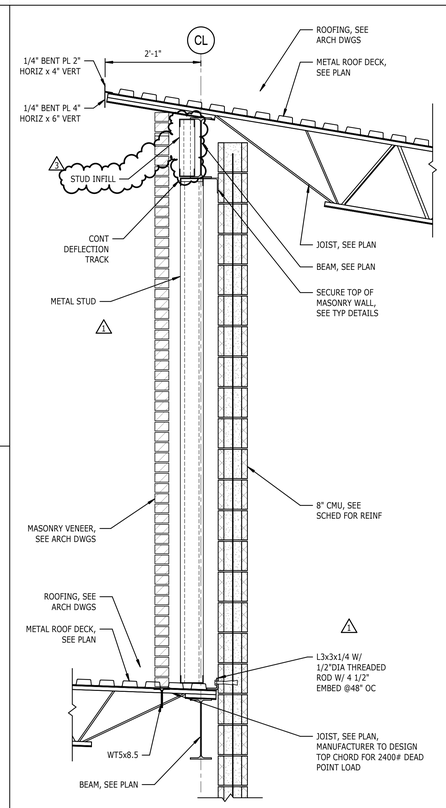
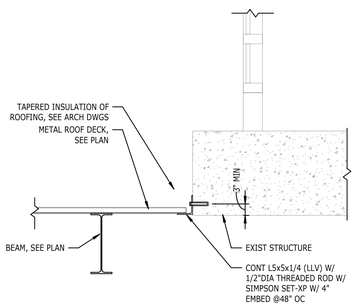


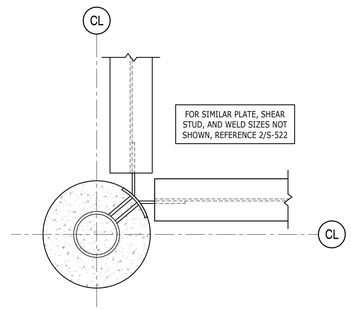
17 S-522 **SECTION**
BOTTOM FLANGE BRACING DETAIL
NTS



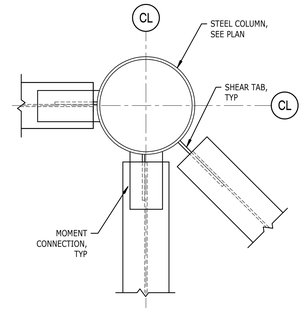
13 S-522 **SECTION**
3/4" = 1'-0"



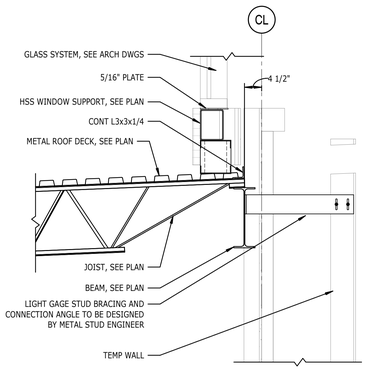
9 S-522 **SECTION**
3/4" = 1'-0"



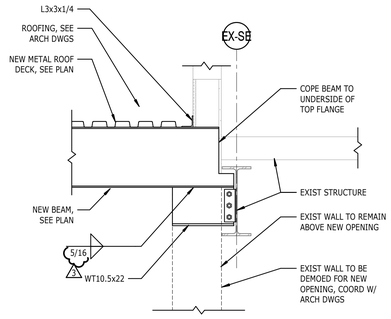
5 S-522 **PLAN**
CONNECTION PLATE DETAIL
1 1/2" = 1'-0"



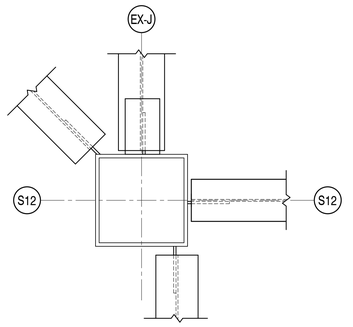
1 S-522 **CONNECTION PLAN DETAIL**
NTS



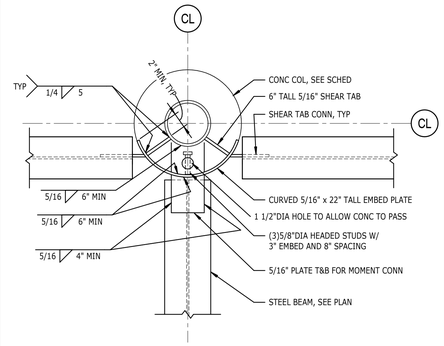
18 S-522 **SECTION**
3/4" = 1'-0"



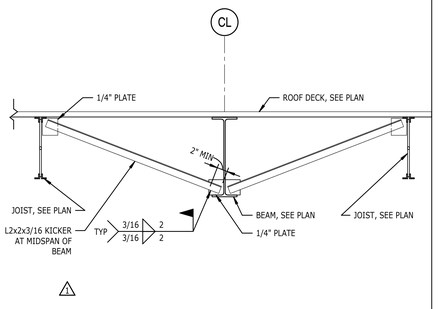
10 S-522 **SECTION**
3/4" = 1'-0"



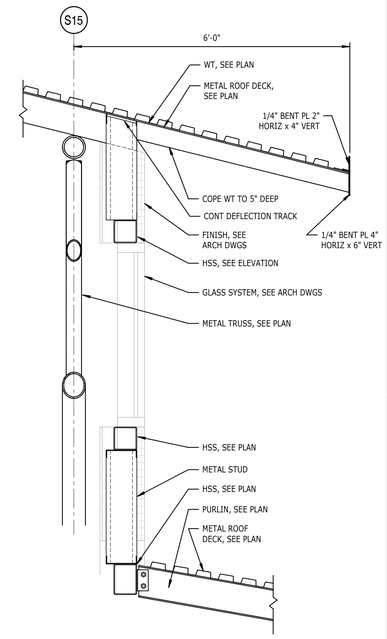
6 S-522 **PLAN**
CONNECTION PLATE DETAIL
1 1/2" = 1'-0"



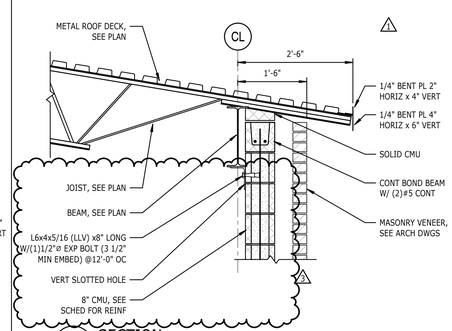
2 S-522 **CONNECTION PLAN DETAIL**
1 1/2" = 1'-0"



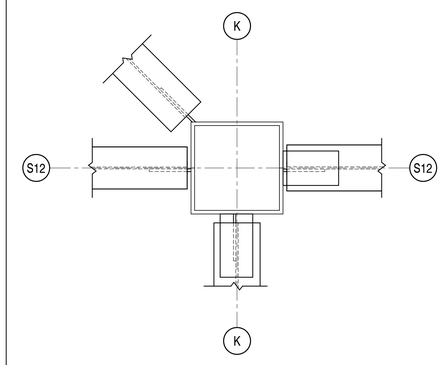
19 S-522 **SECTION**
3/4" = 1'-0"



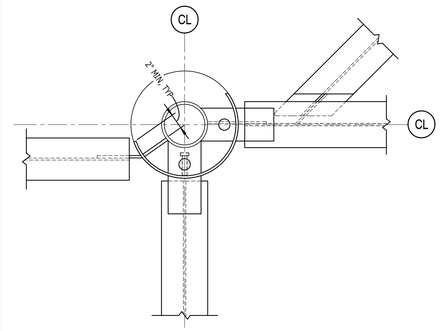
15 S-522 **SECTION**
3/4" = 1'-0"



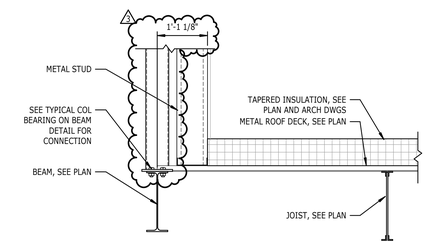
11 S-522 **SECTION**
3/4" = 1'-0"



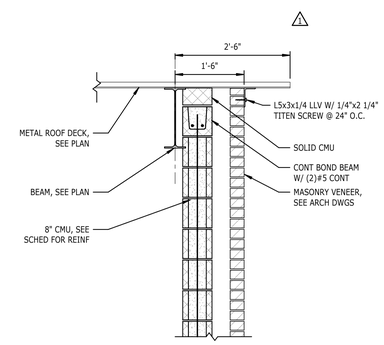
7 S-522 **PLAN**
CONNECTION PLATE DETAIL
1 1/2" = 1'-0"



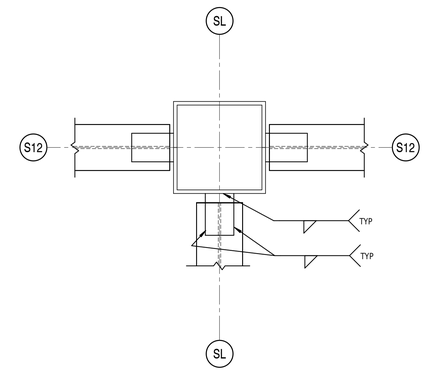
3 S-522 **CONNECTION PLAN DETAIL**
1 1/2" = 1'-0"



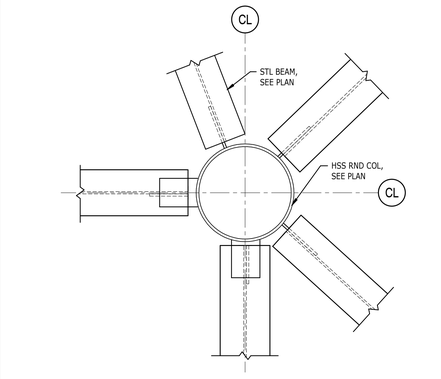
20 S-522 **SECTION**
3/4" = 1'-0"



12 S-522 **SECTION**
3/4" = 1'-0"



8 S-522 **PLAN**
CONNECTION PLATE DETAIL
1 1/2" = 1'-0"



4 S-522 **CONNECTION PLAN DETAIL**
1 1/2" = 1'-0"

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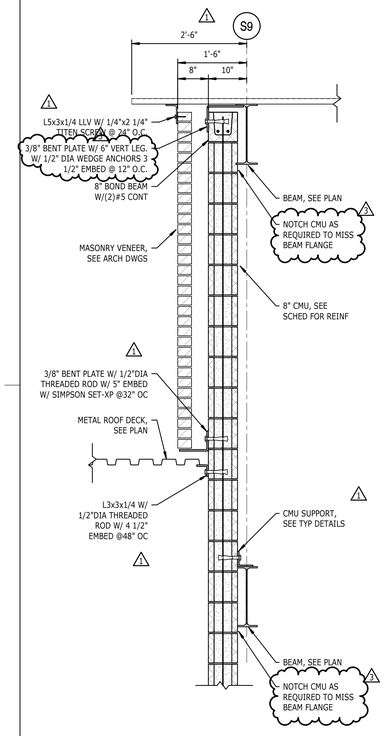
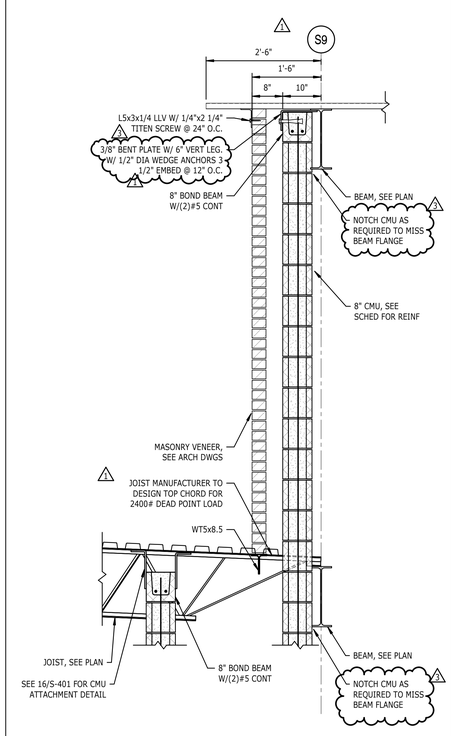
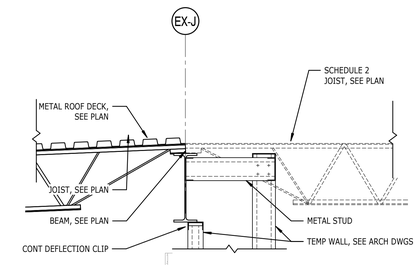


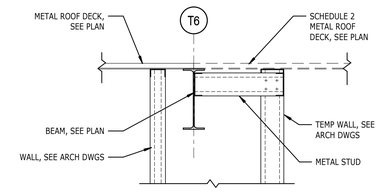
17 S-523 SECTION 3/4" = 1'-0"



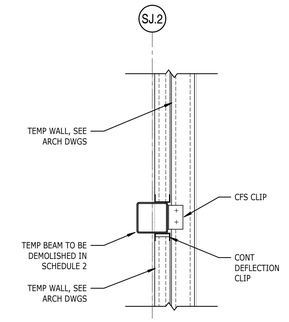
13 S-523 SECTION 3/4" = 1'-0"



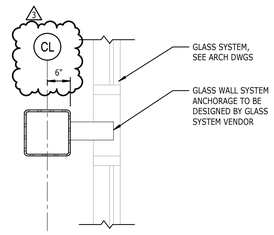
9 S-523 SECTION 3/4" = 1'-0"



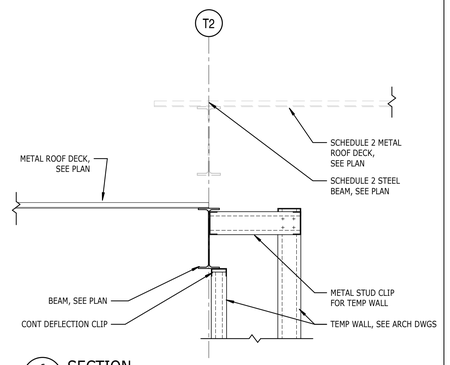
5 S-523 SECTION 3/4" = 1'-0"



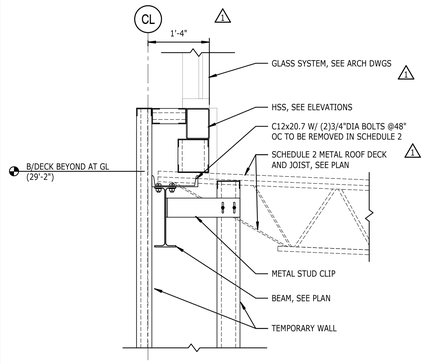
1 S-523 SECTION 3/4" = 1'-0"



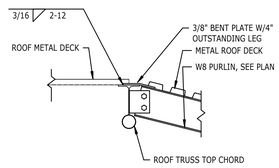
10 S-523 SECTION 3/4" = 1'-0"



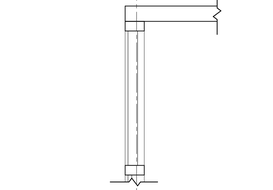
6 S-523 SECTION 3/4" = 1'-0"



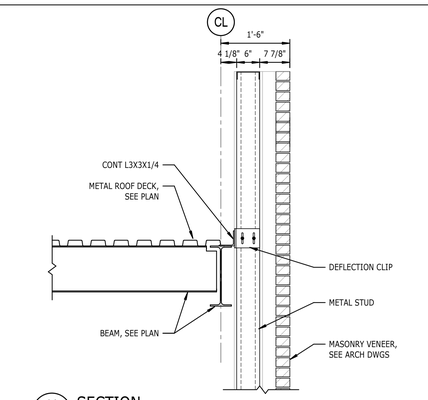
2 S-523 SECTION 3/4" = 1'-0"



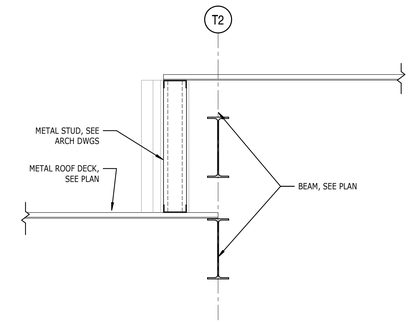
19 S-523 DETAIL 3/4" = 1'-0"



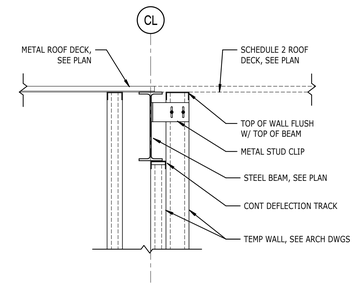
15 S-523 DETAIL 3/4" = 1'-0"



11 S-523 SECTION 3/4" = 1'-0"



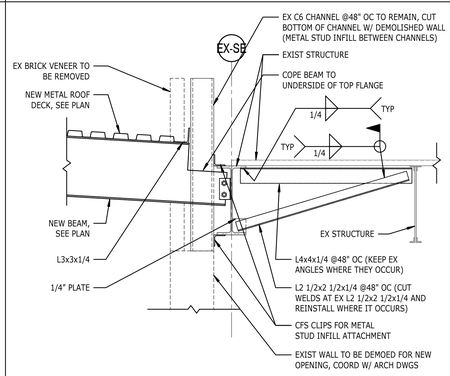
7 S-523 SECTION 3/4" = 1'-0"



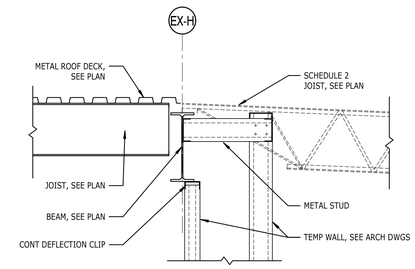
3 S-523 SECTION 3/4" = 1'-0"

20 S-523 DETAIL 3/4" = 1'-0"

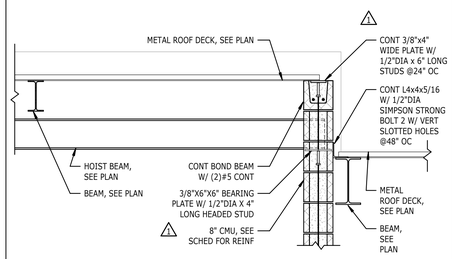
16 S-523 SECTION 3/4" = 1'-0"



12 S-523 SECTION 3/4" = 1'-0"



8 S-523 SECTION 3/4" = 1'-0"



4 S-523 SECTION 3/4" = 1'-0"

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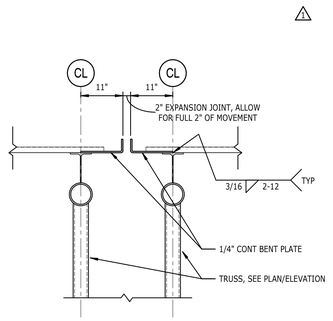
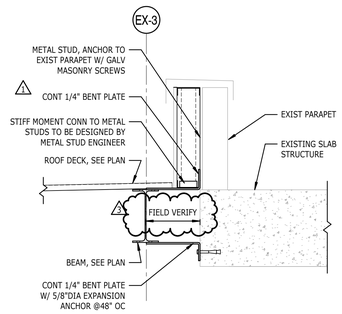
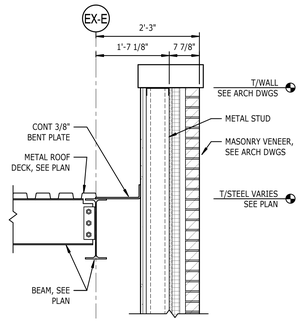


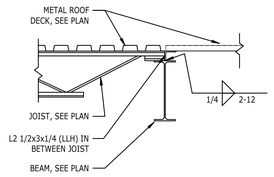
17 S-524 SECTION
3/4" = 1'-0"



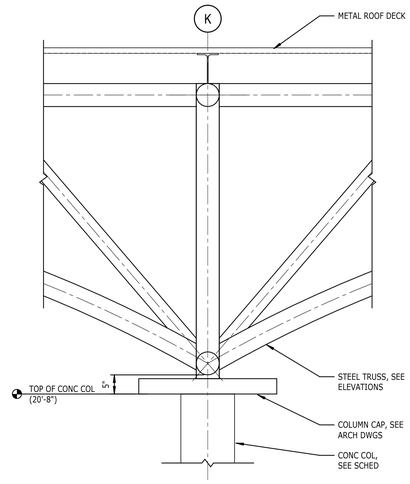
13 S-524 SECTION
3/4" = 1'-0"



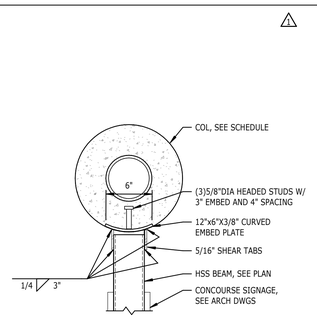
9 S-524 SECTION
3/4" = 1'-0"



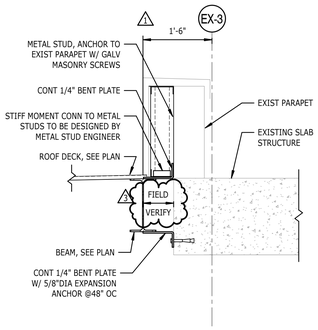
5 S-524 SECTION
3/4" = 1'-0"



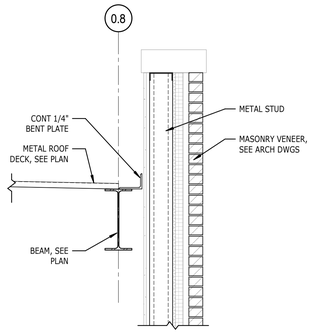
1 S-524 SECTION
3/4" = 1'-0"



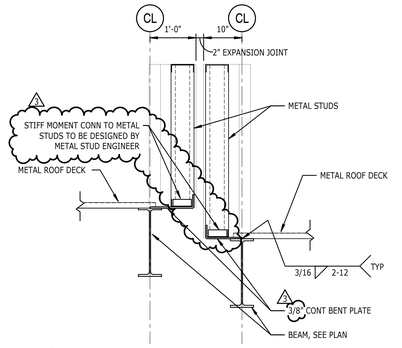
18 S-524 DETAIL
CONCOURSE SIGNAGE CONNECTION DETAIL
NTS



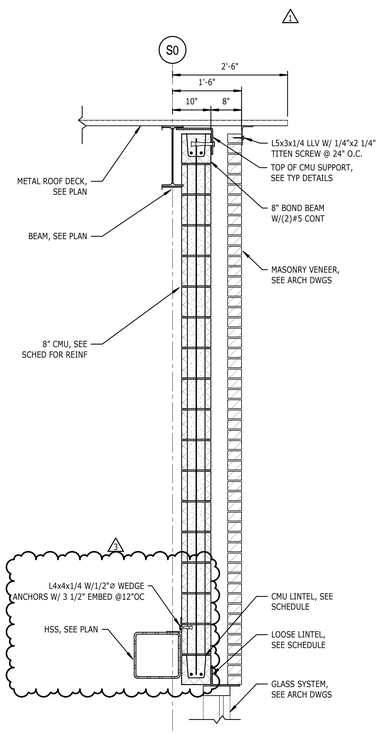
14 S-524 SECTION
3/4" = 1'-0"



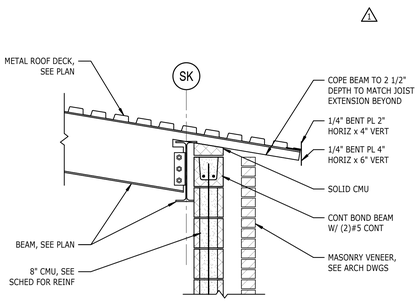
10 S-524 SECTION
3/4" = 1'-0"



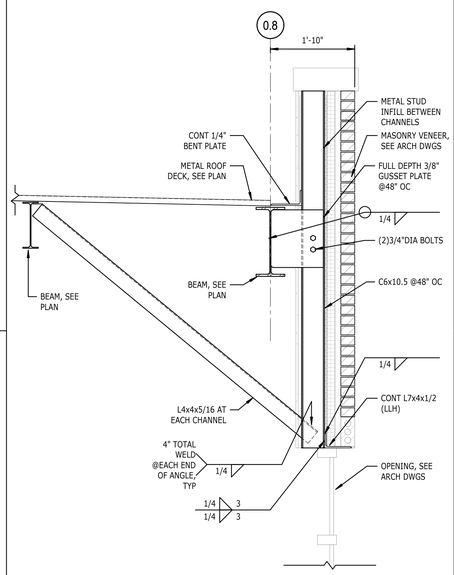
6 S-524 SECTION
3/4" = 1'-0"



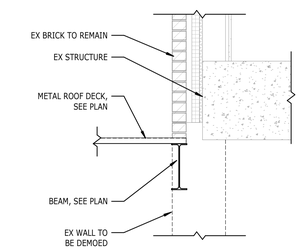
19 S-524 SECTION
3/4" = 1'-0"



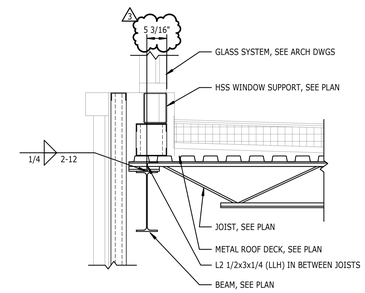
15 S-524 SECTION
3/4" = 1'-0"



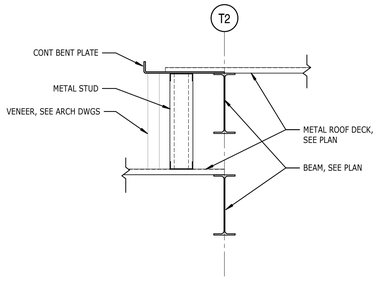
12 S-524 SECTION
3/4" = 1'-0"



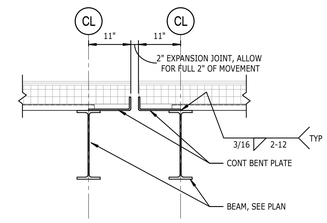
7 S-524 SECTION
3/4" = 1'-0"



3 S-524 SECTION
3/4" = 1'-0"



8 S-524 SECTION
3/4" = 1'-0"



4 S-524 SECTION
3/4" = 1'-0"

ILM
TERMINAL IMPROVEMENTS CONTRACT 3
Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

NORTH CAROLINA PROFESSIONAL SEAL 024096 ENGINEER MICHAEL A. GARDINER
07/30/2019

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FIRM LICENSE #C-1051
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BAGGAGE HANDLING CONSULTANTS
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HARTRANFT

SINGAGE & WAYFINDING
TAKEFORM

REVISIONS

1	7/12/19	AD-01
3	7/30/19	AD-03

DATE 06/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

STRUCTURAL ROOF SECTIONS

SHEET NUMBER
S-524

RCP LEGEND

- 2'x4' w 6" SLOT LAY-IN CEILING PANEL
- 2X2 LAY-IN CEILING PANEL
- GYPSUM BOARD
- EXPOSED STRUCTURE - PAINTED
- EXHAUST AIR GRILLE
- (S) SPEAKER
- SPRINKLER
- SPEAKER/STROBE

HEIGHT (FEET, INCHES) ABOVE FINISHED FLOOR, 10'-6" U.N.O.

- 6" X LED FIXTURE LENGTH VARIES
- 2 X 2 LED FIXTURE
- LED FIXTURE
- 1 X 1 LED FIXTURE
- 2 X 2 LED FIXTURE- EXTERIOR
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST FAN
- 6" X MECH SUPPLY AND RETURN DIFFUSER LENGTH VARIES

PLAN LEGEND

- 8" REINFORCED CMU
- 8" CAST IN PLACE CONCRETE
- PARTITION AS SCHEDULED
- DIM. EIFS & CMU
- DIM. EIFS & C.I.P. CONCRETE
- 1 HOUR FIRE RATED PARTITION
- BRICK VENEER
- EXISTING COVERED AREA
- EXISTING ENCLOSED AREA
- EXISTING WALLS/COLUMNS
- RD = ROOF DRAIN LOCATION

EX-SAB, EX-S8, EX-SAA, EX-S7, EX-SA, EX-S6, EX-SB, EX-S5, EX-SC, EX-SD, EX-SE
32'-0", 28'-0", 20'-0", 24'-0", 20'-0"
SG.4, SH, SJ.1, SJ.2, SK, G
19'-0", 27'-0", 2'-0", 27'-0", 28'-0"
S12, S11, S10, S9, S0
1 / A1-162
1 / A1-163

HOLDROOM 201
WOMEN'S 207
MEN'S 208
CORRIDOR A1202
HOLDROOM A1205
STAIR 7 A1207
CIRCULATION 1232

ALUM. LIGHT SHELF
GWB SOFFITS PAINTED P-3 TYP.
POST MOUNTED CEILING HUNG LED DISPLAYS
APC-1 TYP.
OPEN TO ABOVE
2" EJC W1
8'-0"
10'-6"
9'-6"
1'-0"
2'-0"

B2, B1, BA, BB, BC, BD, EX-G

TRUE NORTH

1 SCHEDULE 1 BOARDING LEVEL RCP ZONE 1
1/8" = 1'-0"

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TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
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THE WILSON GROUP ARCHITECTS, REGISTERED ARCHITECTURAL CORPORATION, CERT. NO. 51140, NORTH CAROLINA, CHARLOTTE, N.C.

TRAVIS WALKER PAGE, REGISTERED ARCHITECT, 9272, NORTH CAROLINA, CHARLOTTE, N.C.

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TAKEFORM

ZONE 1

KEY PLAN

REVISIONS

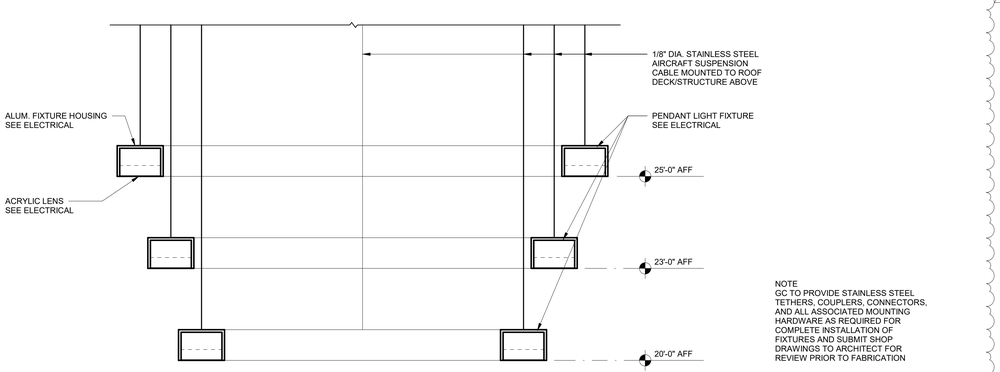
1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - BOARDING LEVEL RCP ZONE 1

SHEET NUMBER

A1-161



16 LIGHT FIXTURE SECTION DETAIL
1/2" = 1'-0"

RCP LEGEND

- 2'x4' w 6" SLOT LAY-IN CEILING PANEL
- 2X2 LAY-IN CEILING PANEL
- GYPSUM BOARD
- EXPOSED STRUCTURE - PAINTED
- EXHAUST AIR GRILLE
- SPEAKER
- SPRINKLER
- SPEAKER/STROBE

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- LED FIXTURE
- 1 X 1 LED FIXTURE
- 2 X 2 LED FIXTURE- EXTERIOR
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST FAN
- 6" X MECH SUPPLY AND RETURN DIFFUSER LENGTH VARIES

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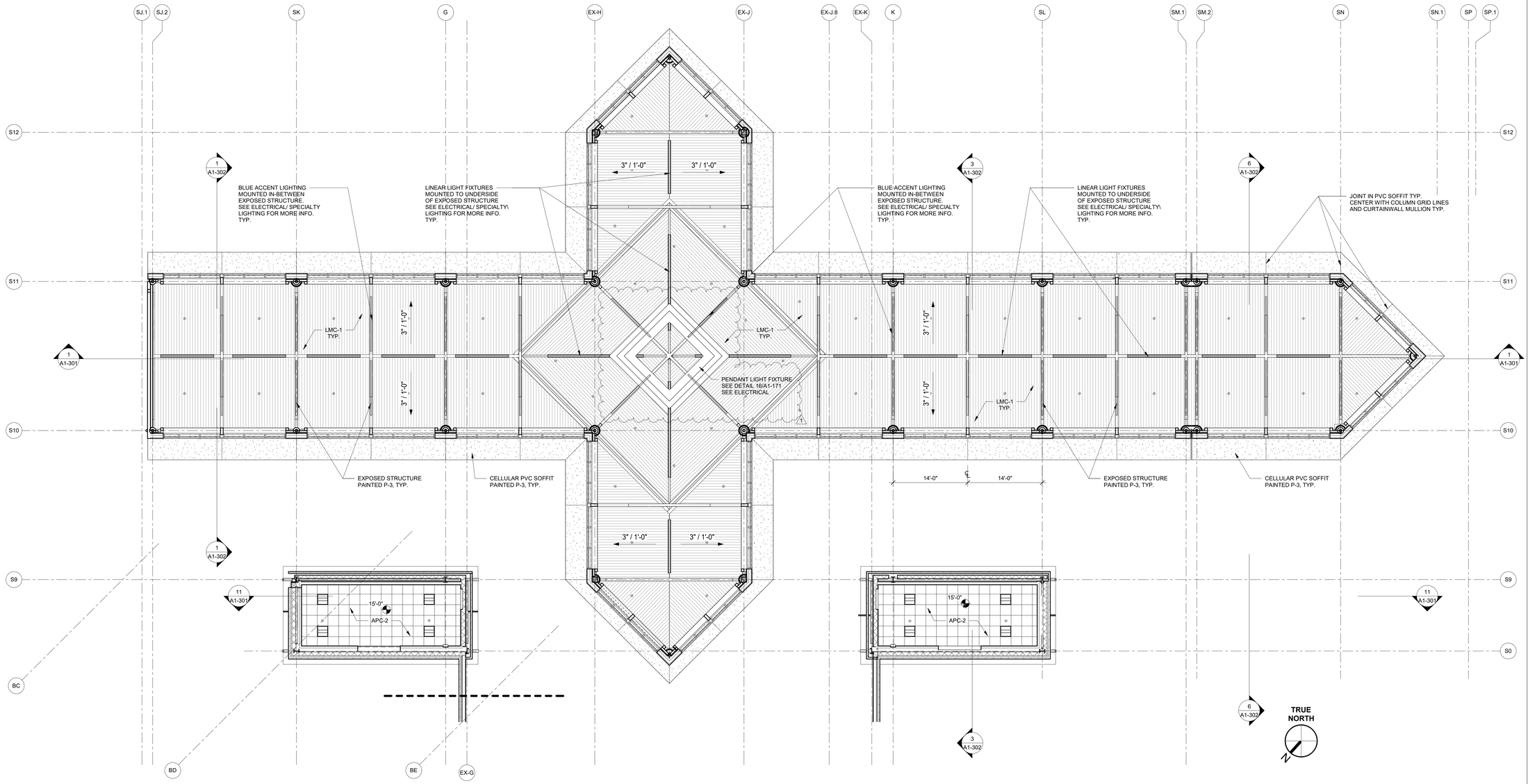
- PARTITION AS SCHEDULED
- DIM. EIFS & CMU
- DIM. EIFS & C.I.P. CONCRETE
- 1 HOUR FIRE RATED PARTITION
- BRICK VENEER
- EXISTING COVERED AREA
- EXISTING ENCLOSED AREA
- EXISTING WALLS/COLUMNS
- RD = ROOF DRAIN LOCATION



1 SCHEDULE 1 - CLERESTORY RCP
1/8" = 1'-0"

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TERMINAL IMPROVEMENTS CONTRACT 3
Wilmington International Airport
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HARTRANFT

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TAKEFORM

REVISIONS

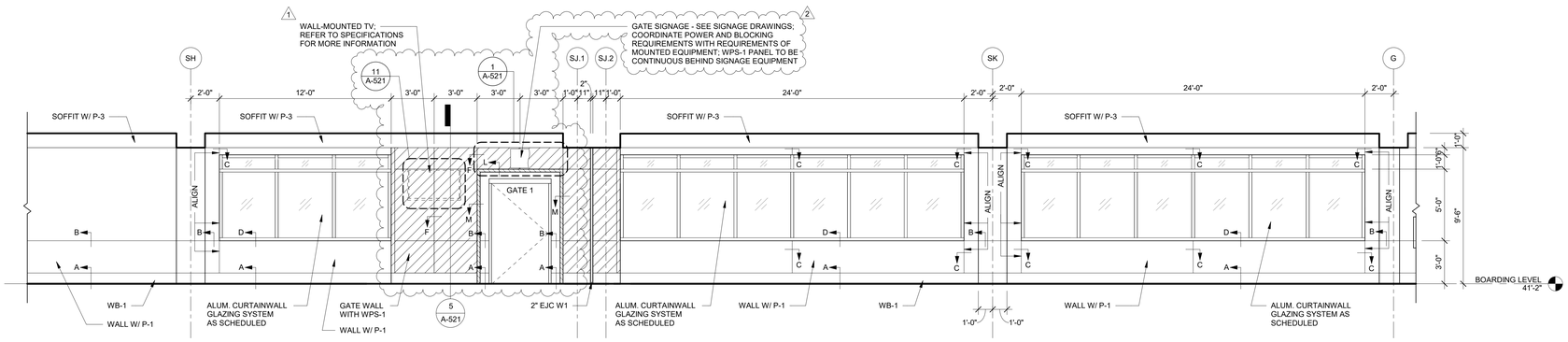
1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - CLERESTORY RCP

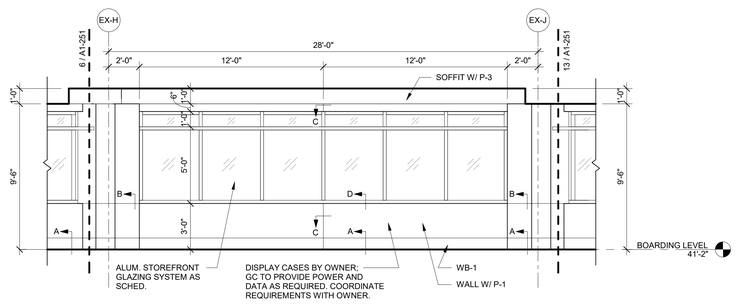
SHEET NUMBER

A1-171



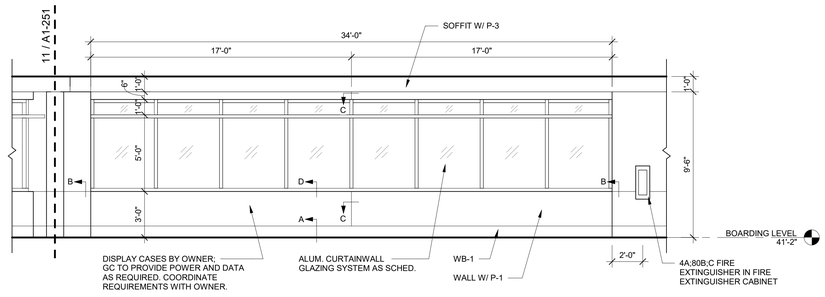
16 INTERIOR ELEVATION - HOLD ROOM 36 - NORTH

1/4" = 1'-0"



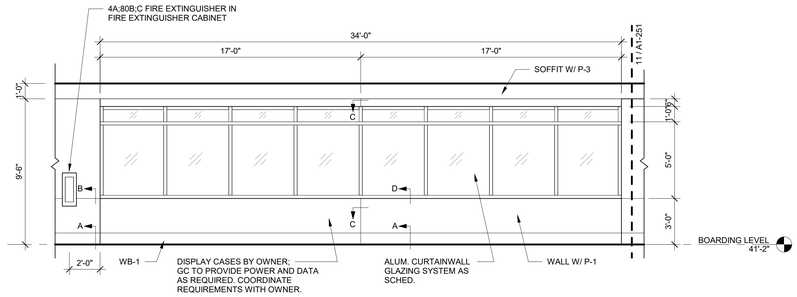
11 INTERIOR ELEVATION - OBSERVATION NORTH

1/4" = 1'-0"



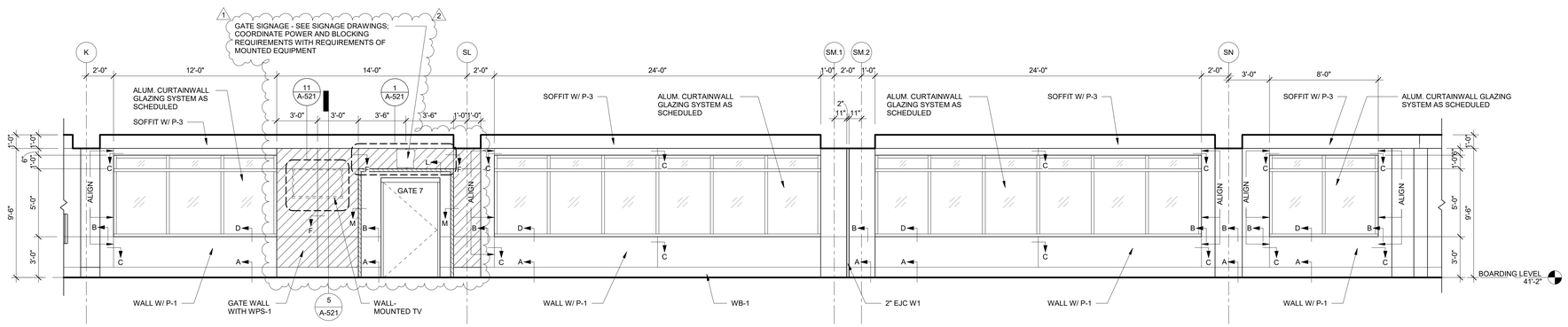
13 INTERIOR ELEVATION - OBSERVATION NORTH EAST

1/4" = 1'-0"



6 INTERIOR ELEVATION - OBSERVATION NORTHWEST

1/4" = 1'-0"



1 INTERIOR ELEVATION - HOLD ROOM 32 - NORTH

1/4" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

1. REFER TO SHEET A-654 FOR WALL BASE, WALL, AND PANEL REVEAL DETAILS.
2. ABBREVIATIONS:
   - CLR = CENTERLINE OF REVEAL
   - TOR = TOP OF REVEAL
   - BOR = BOTTOM OF REVEAL
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND APPROVAL OF ALL SPECIALTY WALL PANEL SYSTEMS (WPS) PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION
4. CONTRACTOR TO PROVIDE MOCKUPS OF EACH SPECIALTY WALL PANEL SYSTEM (WPS) FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION.
5. ALL VERTICAL AND HORIZONTAL REVEALS ARE TO BE CONTINUOUS AND UNINTERRUPTED, U.N.O.
6. ALL DEAD STOP EXTRUSIONS ARE TO BE CONTINUOUS AND UNINTERRUPTED.

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TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
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Wilmington, NC 28405

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HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

1	7/12/2019	AD-01
2	7/30/2019	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - INTERIOR ELEVATIONS

SHEET NUMBER

A1-251

GENERAL NOTES - INTERIOR ELEVATIONS

1. REFER TO SHEET A-654 FOR WALL BASE, WALL, AND PANEL REVEAL DETAILS.
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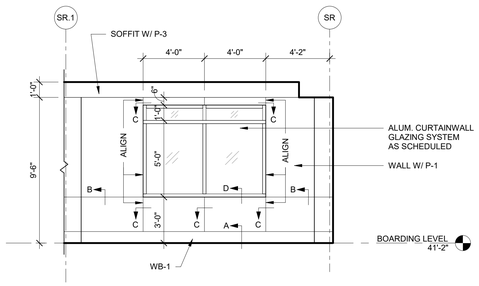
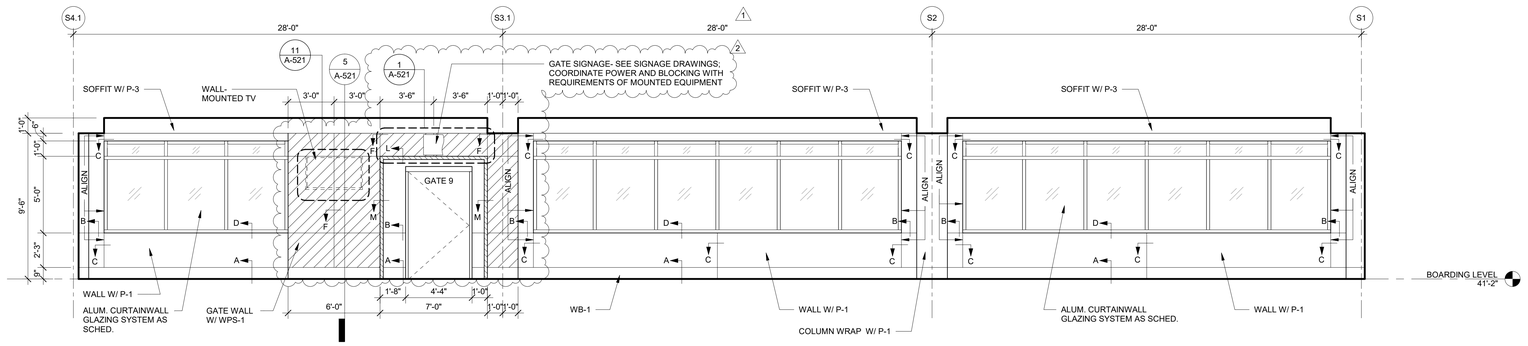
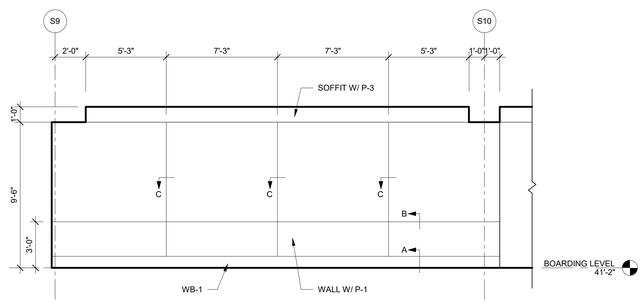


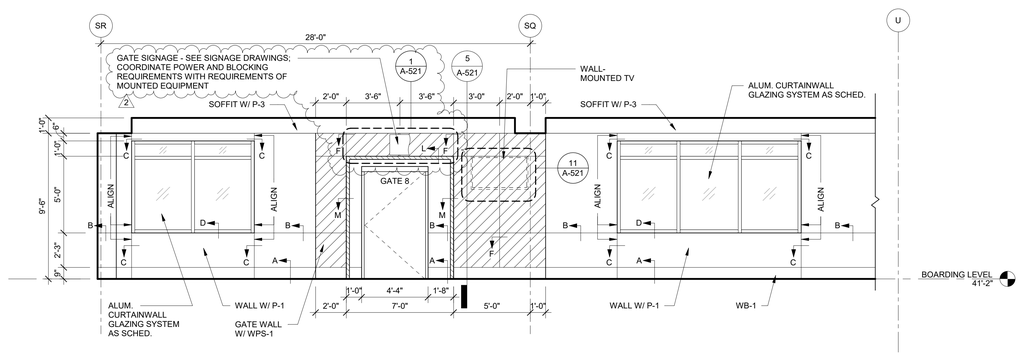
11 NORTH WEST INTERIOR ELEVATION - ZONE 2
1/4" = 1'-0"



6 NORTH EAST INTERIOR ELEVATION - ZONE 2
1/4" = 1'-0"



1 SOUTH WEST INTERIOR ELEVATION - ZONE 2
1/4" = 1'-0"



3 SOUTH EAST INTERIOR ELEVATION - ZONE 2
1/4" = 1'-0"

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TERMINAL IMPROVEMENTS CONTRACT 3

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CHARLOTTE, N.C.

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REVISIONS

1	7/12/2019	AD-01
2	7/30/2019	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - INTERIOR ELEVATIONS

SHEET NUMBER

A1-252

GENERAL NOTES - INTERIOR ELEVATIONS

1. REFER TO SHEET A-654 FOR WALL BASE, WALL, AND PANEL REVEAL DETAILS.
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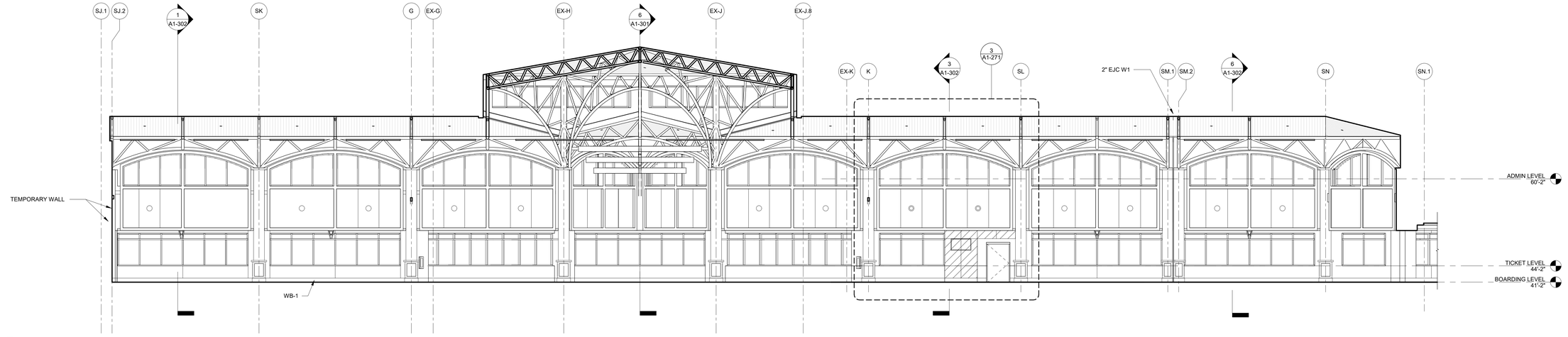
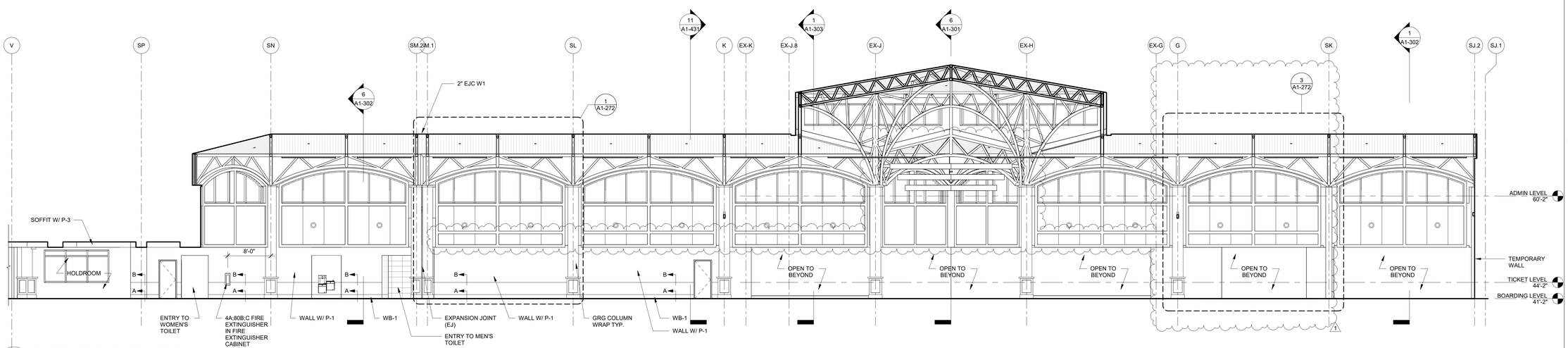


6 INTERIOR ELEVATION
1/8" = 1'-0"



1 INTERIOR ELEVATION
1/8" = 1'-0"

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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Wilmington, NC 28405

THE WILSON GROUP ARCHITECTS REGISTERED ARCHITECTURAL CORPORATION NORTH CAROLINA CERT. NO. 51140 CHARLOTTE, N.C.

TRAVIS WALKER PAGE REGISTERED ARCHITECT 9272 NORTH CAROLINA CHARLOTTE, N.C.

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HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

1	7/30/2019	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - INTERIOR ELEVATIONS

SHEET NUMBER

A1-253

GENERAL NOTES - INTERIOR ELEVATIONS

1. REFER TO SHEET A-654 FOR WALL BASE, WALL, AND PANEL REVEAL DETAILS.
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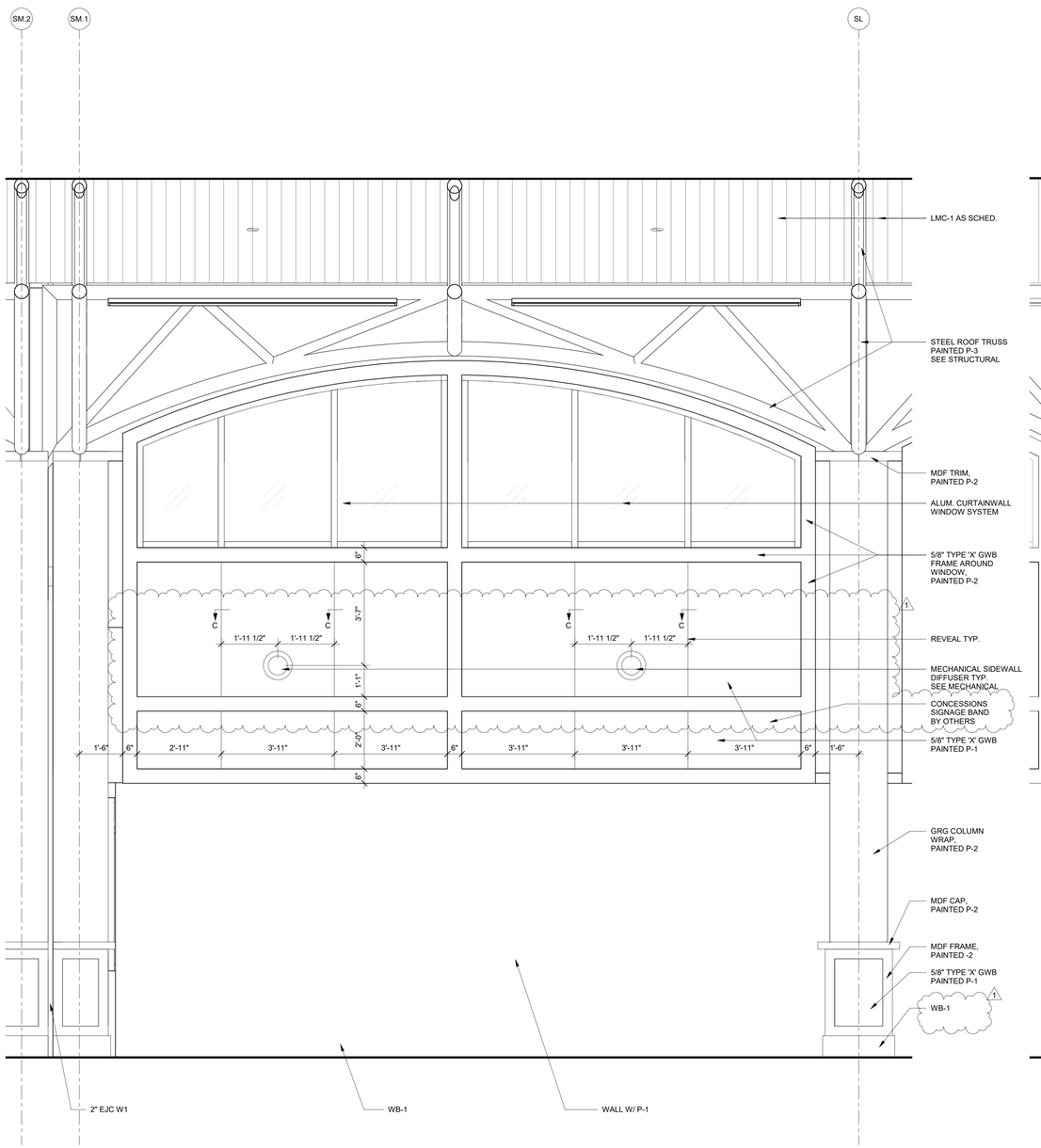
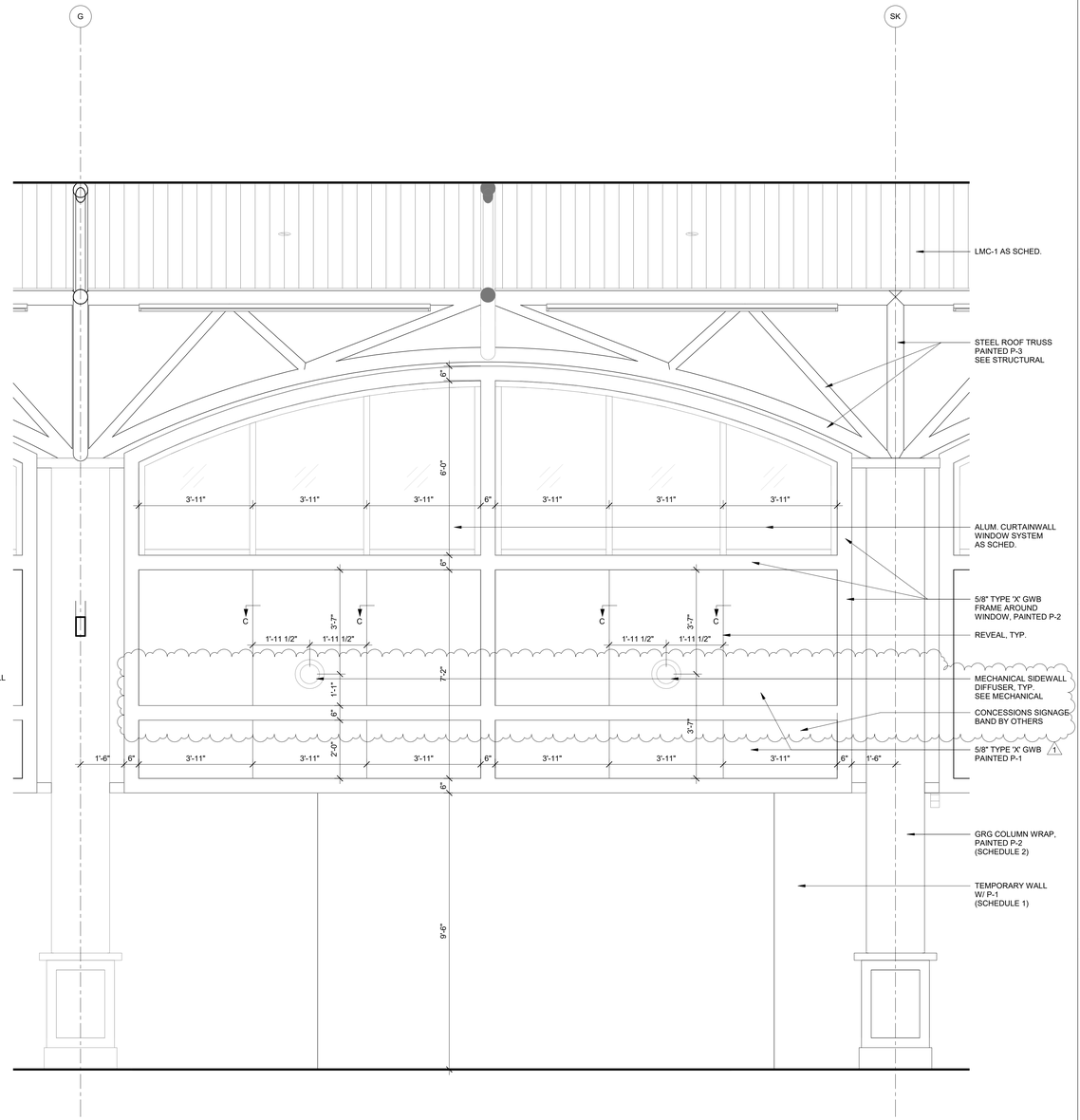
6. ALL DEAD STOP EXTRUSIONS ARE TO BE CONTINUOUS AND UNINTERRUPTED.



1 TYPICAL CONCESSION EJ TYP. BAY
1/2" = 1'-0"



3 TYPICAL CONCESSION WALL BAY
1/2" = 1'-0"

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HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - ENLARGED INTERIOR ELEVATIONS

SHEET NUMBER

A1-272

1 ENLARGED FLOOR PLAN AT ZONE 2 (GATE 7)
3/8" = 1'-0"

2 ENLARGED FLOOR PLAN AT ZONE 2 (GATE 9)
3/8" = 1'-0"

4 ENLARGED FLOOR PLAN AT ZONE 2 (GATE 8)
3/8" = 1'-0"

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REVISIONS

1	7/12/2019	AD-01
2	7/30/2019	AD-03

DATE 7/12/2019
PROJECT NUMBER 9202-000
SHEET TITLE

1

SCHEDULE 1 - ENLARGED FLOOR PLANS

SHEET NUMBER

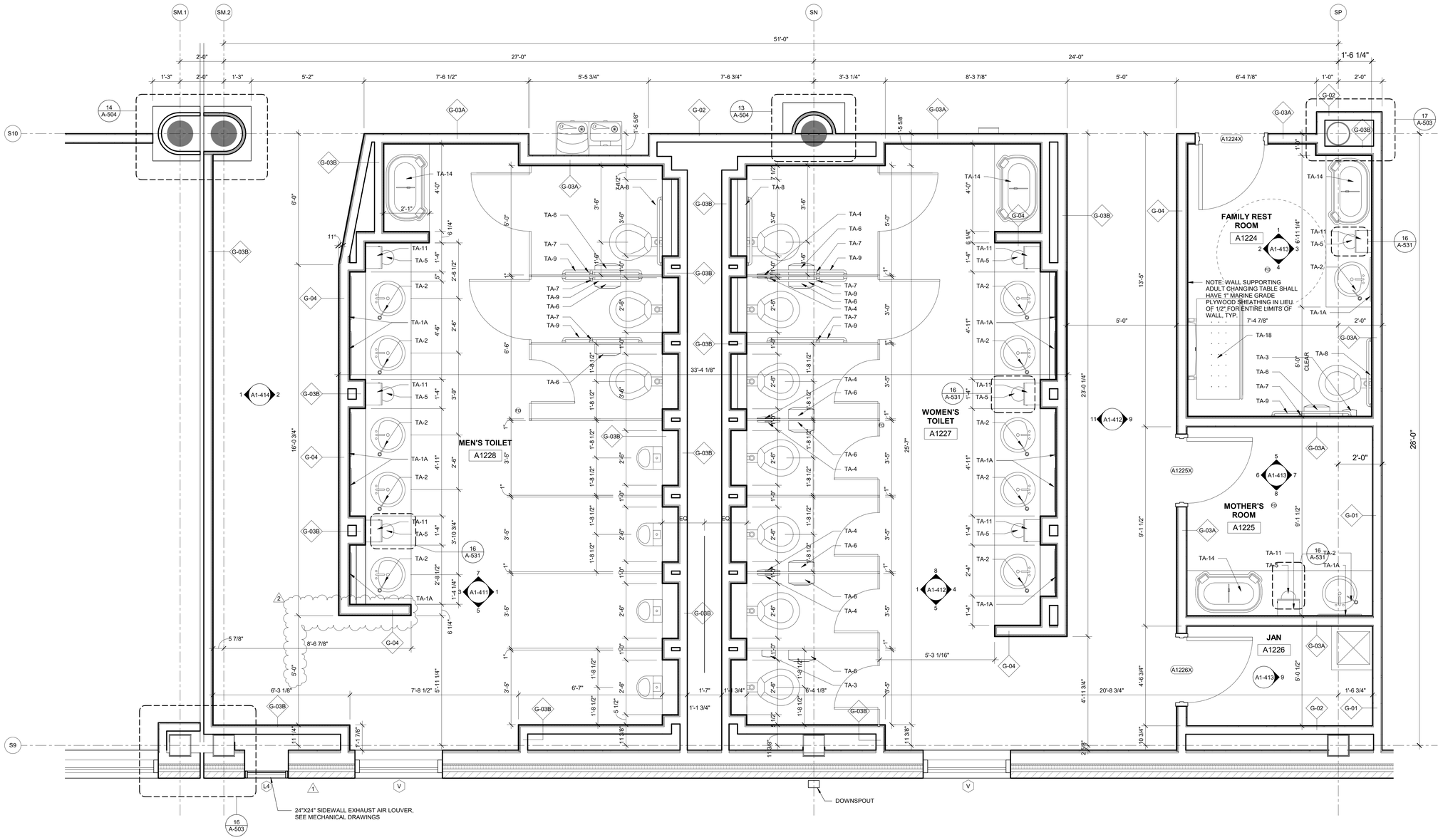
A1-401

GENERAL TOILET ACCESSORY AND BATHROOM FINISH NOTES

REFER TO SPECIFICATION SECTION 10 28 00 - TOILET ACCESSORIES FOR TOILET ACCESSORY LEGEND AND INFORMATION.

TOILET ACCESSORIES LEGEND

SYMBOL	DESCRIPTION
TA-1A	24" X 48" LIGHTED LED MIRROR- SEE ELECTRICAL DRAWINGS
TA-1B	24" X 36" FRAMED MIRROR
TA-2	AUTOMATIC TOP-FILL COUNTER MOUNTED SOAP DISPENSER
TA-3	SURFACE MOUNTED SANITARY NAPKIN DISPENSER- BOBRICK B-270
TA-4	SURFACE MOUNTED SANITARY NAPKIN DISPENSER- BOBRICK B-4354
TA-5	COUNTER WASTE RECEPTACLE GROMMET
TA-6	MULTI-ROLL TOILET TISSUE DISPENSER
TA-7	18" GRAB BAR (VERTICAL)
TA-8	36" GRAB BAR (HORIZONTAL, REAR)
TA-9	42" GRAB BAR (HORIZONTAL, SIDE)
TA-10	SS COAT HOOK (CENTERED ON TOILET SIDE OF DOOR @ 60" A.F.F.)
TA-11	PAPER TOWEL DISPENSER
TA-12	BATTERY OPERATED WALL MOUNTED HAND SOAP DISPENSER
TA-14	BABY CHANGING STATION
TA-15	WASTE RECEPTACLE
TA-16	MOP AND BROOM HOLDER
TA-17	UNDERCOUNTER PULL OUT TRASH RECEPTACLE
TA-18	ADULT CHANGING STATION
TA-19	COMBINATION PAPER TOWEL AND WASTE RECEPTACLE



1 ZONE 2 - ENLARGED TOILET ROOM AREA
1/2" = 1'-0"

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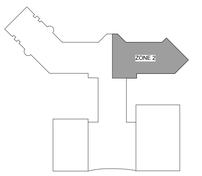

KEY PLAN

REVISIONS

1	7/12/2019	AD-01
2	7/30/2019	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - ENLARGED FLOOR PLANS

SHEET NUMBER

A1-402

GENERAL TOILET ACCESSORY AND BATHROOM FINISH NOTES

REFER TO SPECIFICATION SECTION 10 28 00 - TOILET ACCESSORIES FOR TOILET ACCESSORY LEGEND AND INFORMATION.

GENERAL NOTES - INTERIOR ELEVATIONS

1. REFER TO SHEET A-654 FOR WALL BASE, WALL, AND PANEL REVEAL DETAILS.
2. ABBREVIATIONS:
   - CLR = CENTERLINE OF REVEAL
   - TOR = TOP OF REVEAL
   - BOR = BOTTOM OF REVEAL
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND APPROVAL OF ALL SPECIALTY WALL PANEL SYSTEMS (WPS) PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION
4. CONTRACTOR TO PROVIDE MOCKUPS OF EACH SPECIALTY WALL PANEL SYSTEM (WPS) FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION.
5. ALL VERTICAL AND HORIZONTAL REVEALS ARE TO BE CONTINUOUS AND UNINTERRUPTED, U.N.O.
6. ALL DEAD STOP EXTRUSIONS ARE TO BE CONTINUOUS AND UNINTERRUPTED.

TOILET ACCESSORIES LEGEND

SYMBOL	DESCRIPTION
TA-1A	24" X 48" LIGHTED LED MIRROR- SEE ELECTRICAL DRAWINGS
TA-1B	24" X 36" FRAMED MIRROR
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TA-10	SS COAT HOOK (CENTERED ON TOILET SIDE OF DOOR @ 60" A.F.F.)
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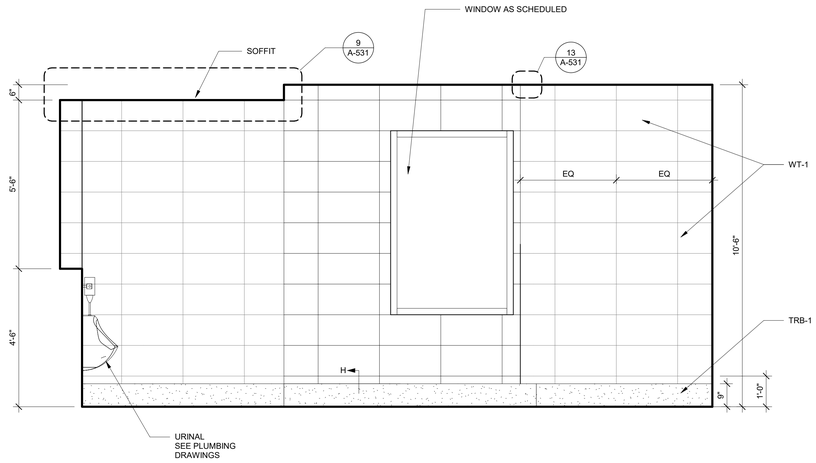
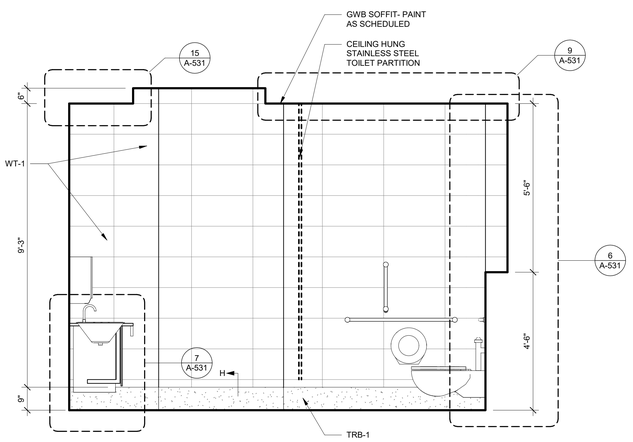
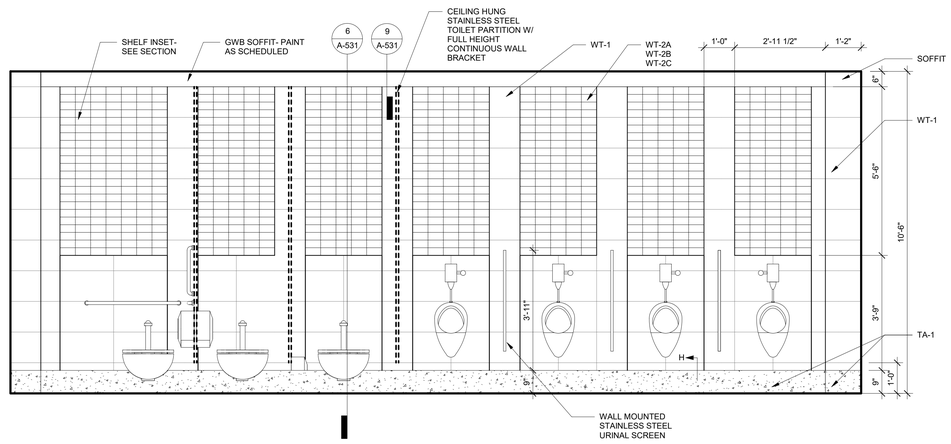
TA-16	MOP AND BROOM HOLDER
TA-17	UNDERCOUNTER PULL OUT TRASH RECEPTACLE
TA-18	ADULT CHANGING STATION
TA-19	COMBINATION PAPER TOWEL AND WASTE RECEPTACLE



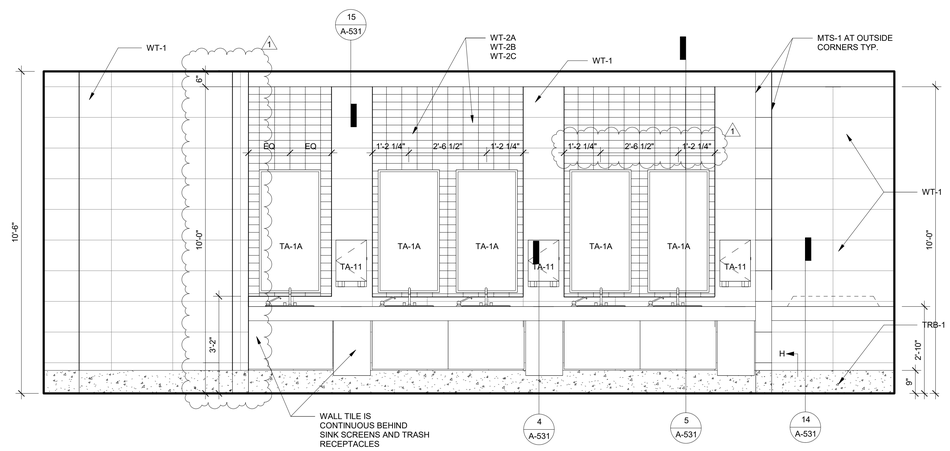
5 MEN'S ROOM NORTH WALL
1/2" = 1'-0"



7 MEN'S ROOM- SOUTH WALL
1/2" = 1'-0"



1 MEN'S ROOM-TOILET WALL
1/2" = 1'-0"



3 MEN'S ROOM-LAVATORY WALL
1/2" = 1'-0"

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TAKEFORM

REVISIONS

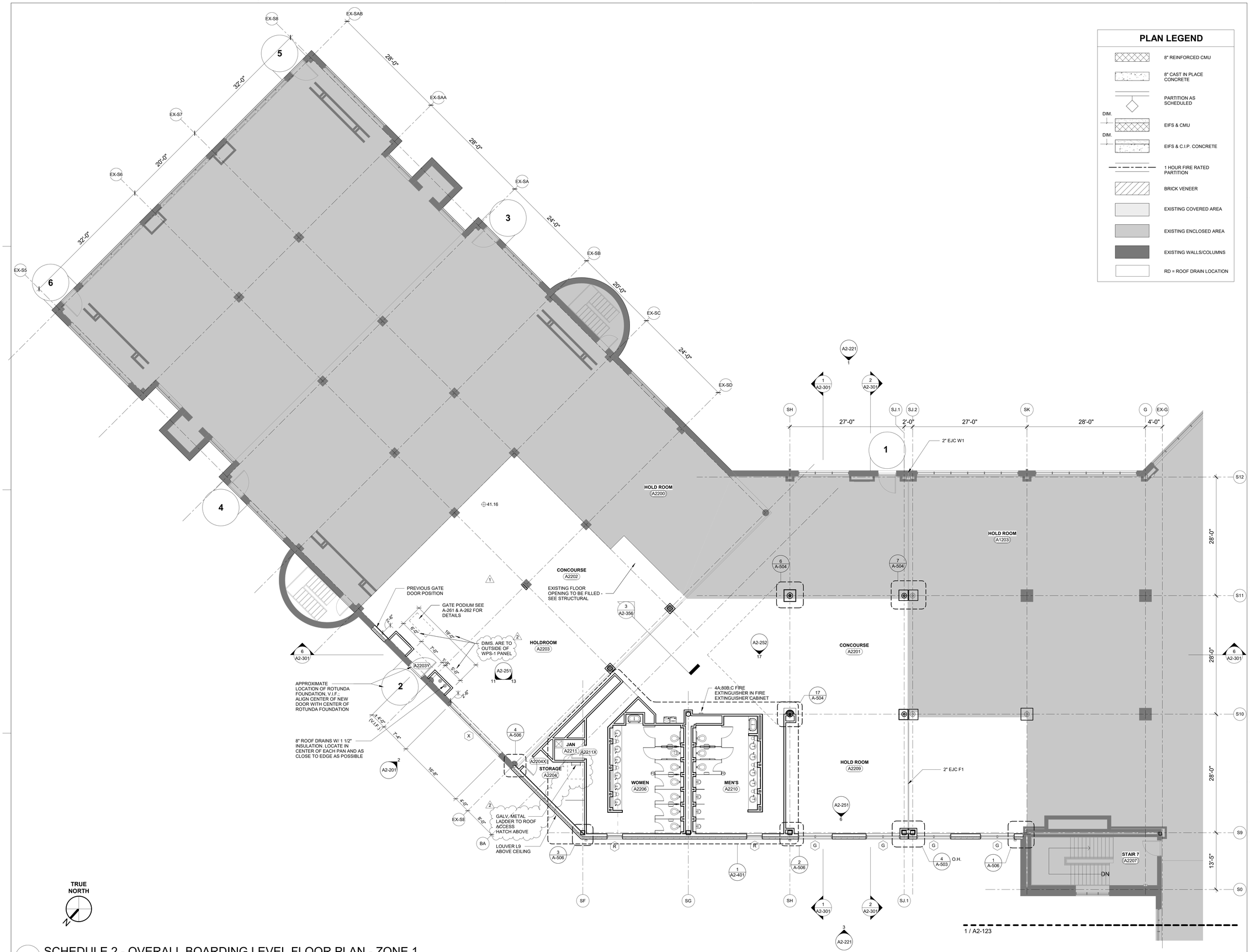
1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - RESTROOM ELEVATIONS

SHEET NUMBER

A1-411



1 SCHEDULE 2 - OVERALL BOARDING LEVEL FLOOR PLAN - ZONE 1

1/8" = 1'-0"

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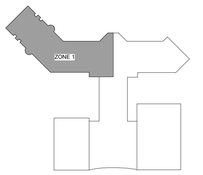


KEY PLAN

REVISIONS

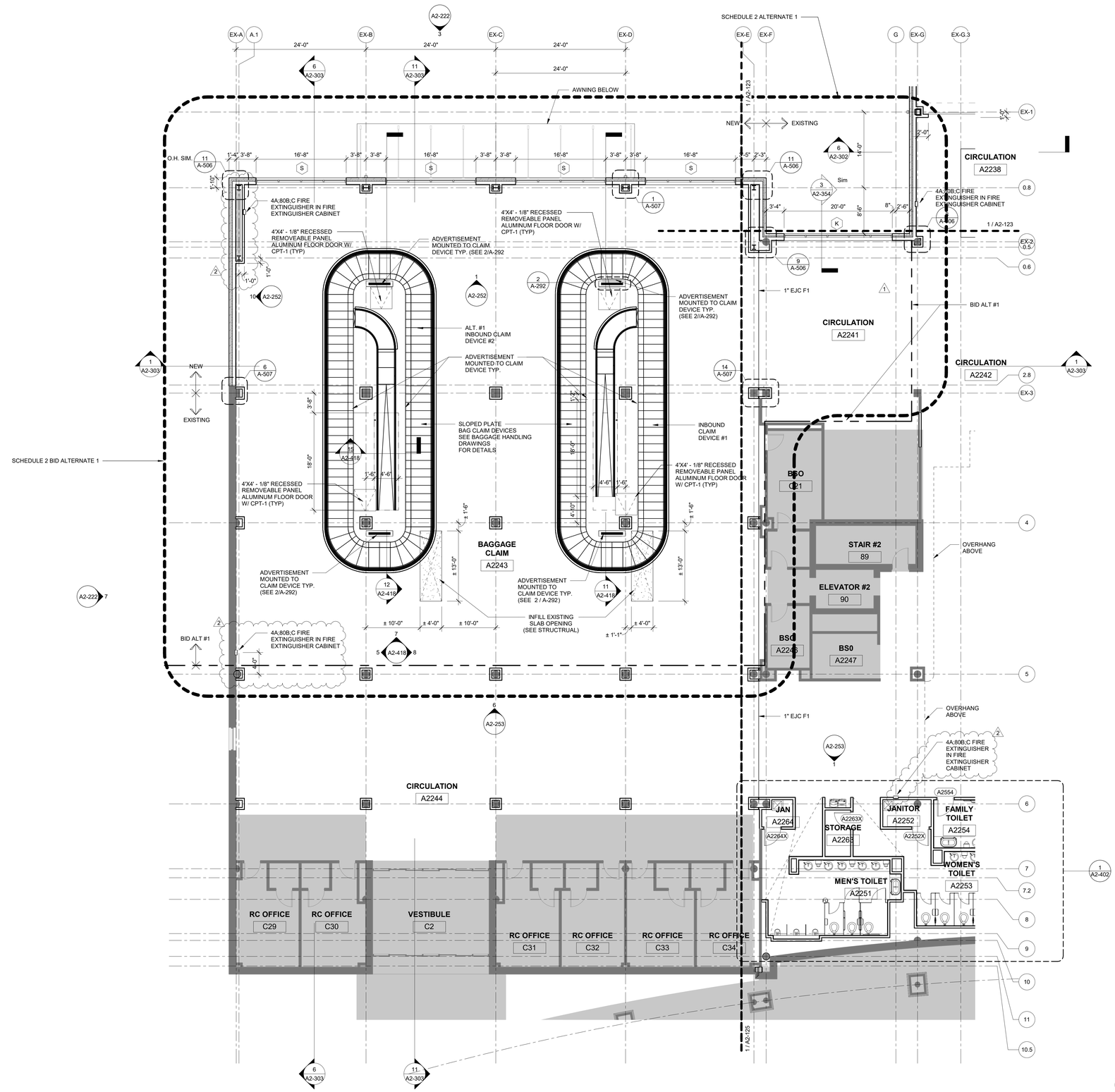
1	7/12/2019	AD-01
2	7/30/2019	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - BOARDING LEVEL FLOOR PLAN ZONE 1

SHEET NUMBER

A2-121



1 SCHEDULE 2 - TICKET LEVEL FLOOR PLAN - ZONE 4

1/8" = 1'-0"

PLAN LEGEND

- 8" REINFORCED CMU
- 8" CAST IN PLACE CONCRETE
- PARTITION AS SCHEDULED
- EIFS & CMU
- EIFS & C.I.P. CONCRETE
- 1 HOUR FIRE RATED PARTITION
- BRICK VENEER
- EXISTING COVERED AREA
- EXISTING ENCLOSED AREA
- EXISTING WALLS/COLUMNS
- RD = ROOF DRAIN LOCATION

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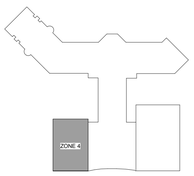


KEY PLAN

REVISIONS

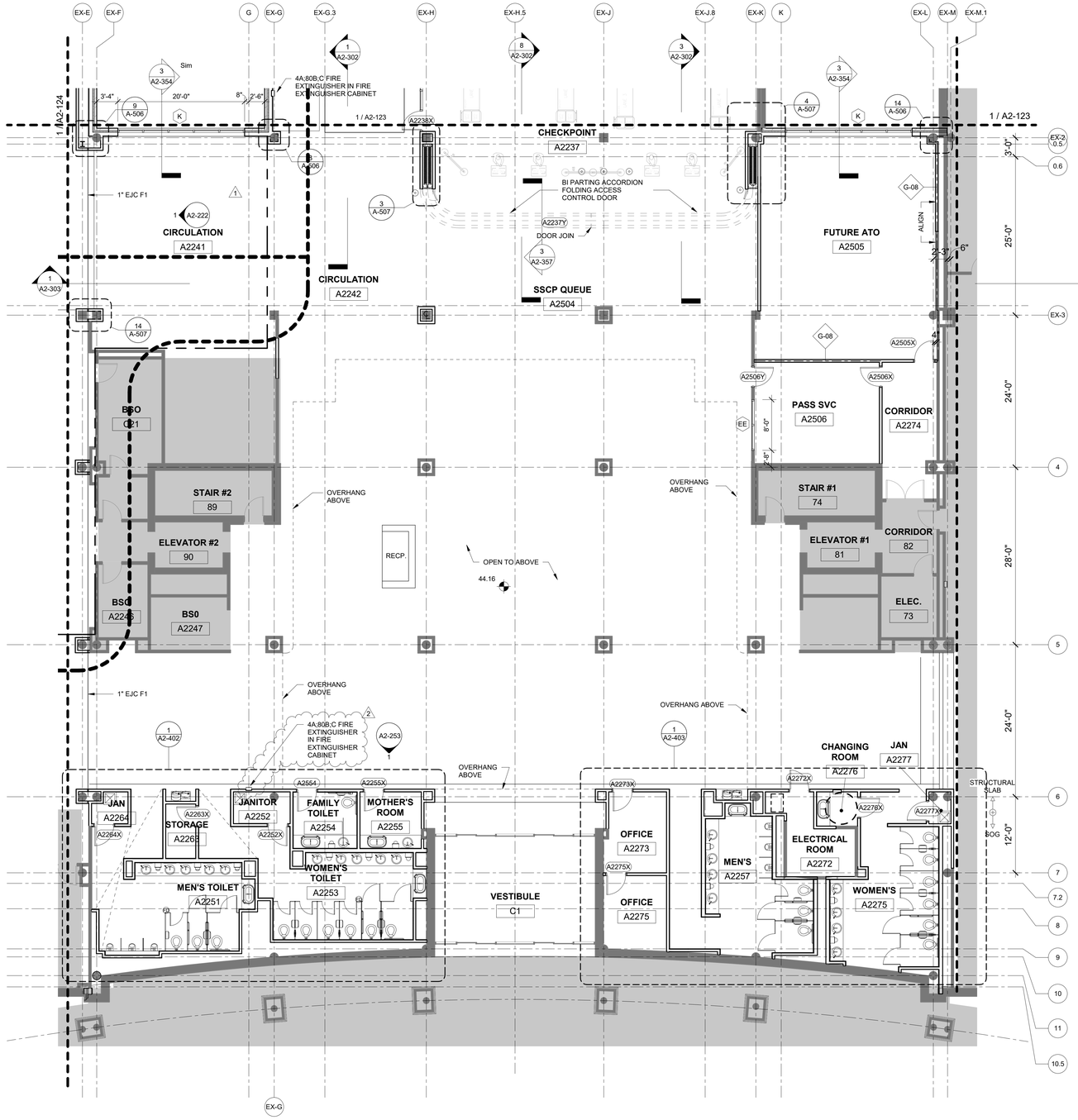
1	7/12/2019	AD-01
2	7/30/2019	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2
-TICKET LEVEL
FLOOR PLAN
ZONE 4

SHEET NUMBER

A2-124



1 SCHEDULE 2 - TICKET LEVEL FLOOR PLAN - ZONE 5

1/8" = 1'-0"

PLAN LEGEND

- 8" REINFORCED CMU
- 8" CAST IN PLACE CONCRETE
- PARTITION AS SCHEDULED
- DIM. EIFS & CMU
- DIM. EIFS & C.I.P. CONCRETE
- 1 HOUR FIRE RATED PARTITION
- BRICK VENEER
- EXISTING COVERED AREA
- EXISTING ENCLOSED AREA
- EXISTING WALLS/COLUMNS
- RD = ROOF DRAIN LOCATION

TRUE NORTH

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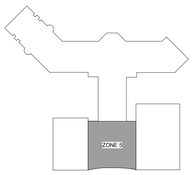


KEY PLAN

REVISIONS

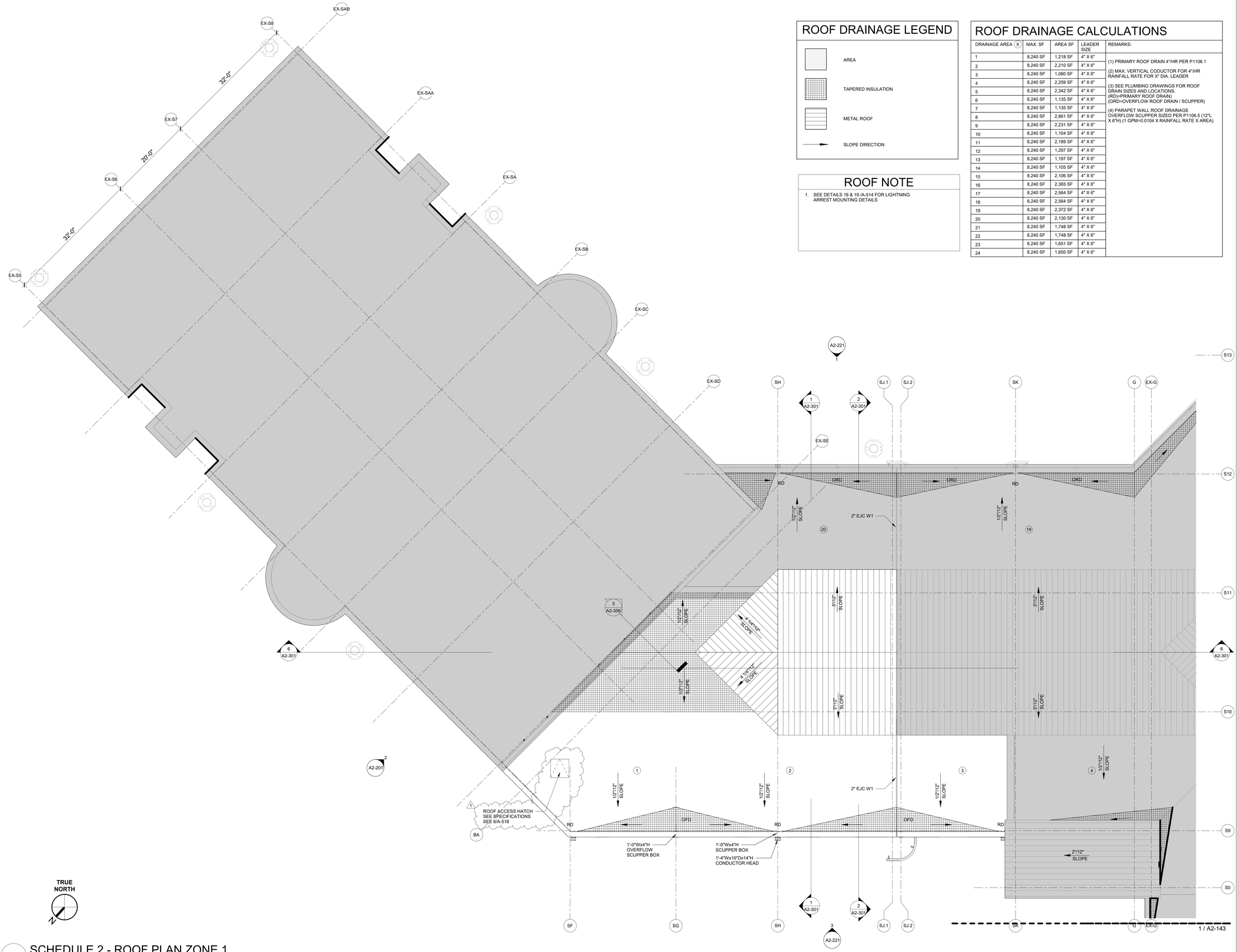
1	7/12/2019	AD-01
2	7/30/2019	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2
-TICKET LEVEL
FLOOR PLAN
ZONE 5

SHEET NUMBER

A2-125



ROOF DRAINAGE LEGEND

- AREA
- TAPERED INSULATION
- METAL ROOF
- SLOPE DIRECTION

ROOF NOTE

1. SEE DETAILS 18 & 19 /A-514 FOR LIGHTNING ARREST MOUNTING DETAILS

ROOF DRAINAGE CALCULATIONS

DRAINAGE AREA (X)	MAX. SF	AREA SF	LEADER SIZE	REMARKS:
1	8,240 SF	1,218 SF	4" X 6"	(1) PRIMARY ROOF DRAIN 4"/HR PER P1106.1
2	8,240 SF	2,210 SF	4" X 6"	
3	8,240 SF	1,080 SF	4" X 6"	(2) MAX. VERTICAL CODUCTOR FOR 4"/HR RAINFALL RATE FOR X" DIA. LEADER
4	8,240 SF	2,259 SF	4" X 6"	
5	8,240 SF	2,342 SF	4" X 6"	(3) SEE PLUMBING DRAWINGS FOR ROOF DRAIN SIZES AND LOCATIONS. (RD)=PRIMARY ROOF DRAIN) (ORD=OVERFLOW ROOF DRAIN / SCUPPER)
6	8,240 SF	1,135 SF	4" X 6"	
7	8,240 SF	1,135 SF	4" X 6"	
8	8,240 SF	2,861 SF	4" X 6"	(4) PARAPET WALL ROOF DRAINAGE OVERFLOW SCUPPER SIZED PER P1106.5 (12"L X 6"H) (1 GPM=0.0104 X RAINFALL RATE X AREA)
9	8,240 SF	2,231 SF	4" X 6"	
10	8,240 SF	1,104 SF	4" X 6"	
11	8,240 SF	2,189 SF	4" X 6"	
12	8,240 SF	1,297 SF	4" X 6"	
13	8,240 SF	1,197 SF	4" X 6"	
14	8,240 SF	1,105 SF	4" X 6"	
15	8,240 SF	2,106 SF	4" X 6"	
16	8,240 SF	2,365 SF	4" X 6"	
17	8,240 SF	2,564 SF	4" X 6"	
18	8,240 SF	2,564 SF	4" X 6"	
19	8,240 SF	2,372 SF	4" X 6"	
20	8,240 SF	2,130 SF	4" X 6"	
21	8,240 SF	1,748 SF	4" X 6"	
22	8,240 SF	1,748 SF	4" X 6"	
23	8,240 SF	1,651 SF	4" X 6"	
24	8,240 SF	1,650 SF	4" X 6"	

1 SCHEDULE 2 - ROOF PLAN ZONE 1
1/8" = 1'-0"

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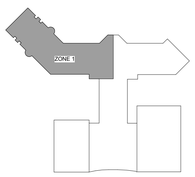


KEY PLAN

REVISIONS

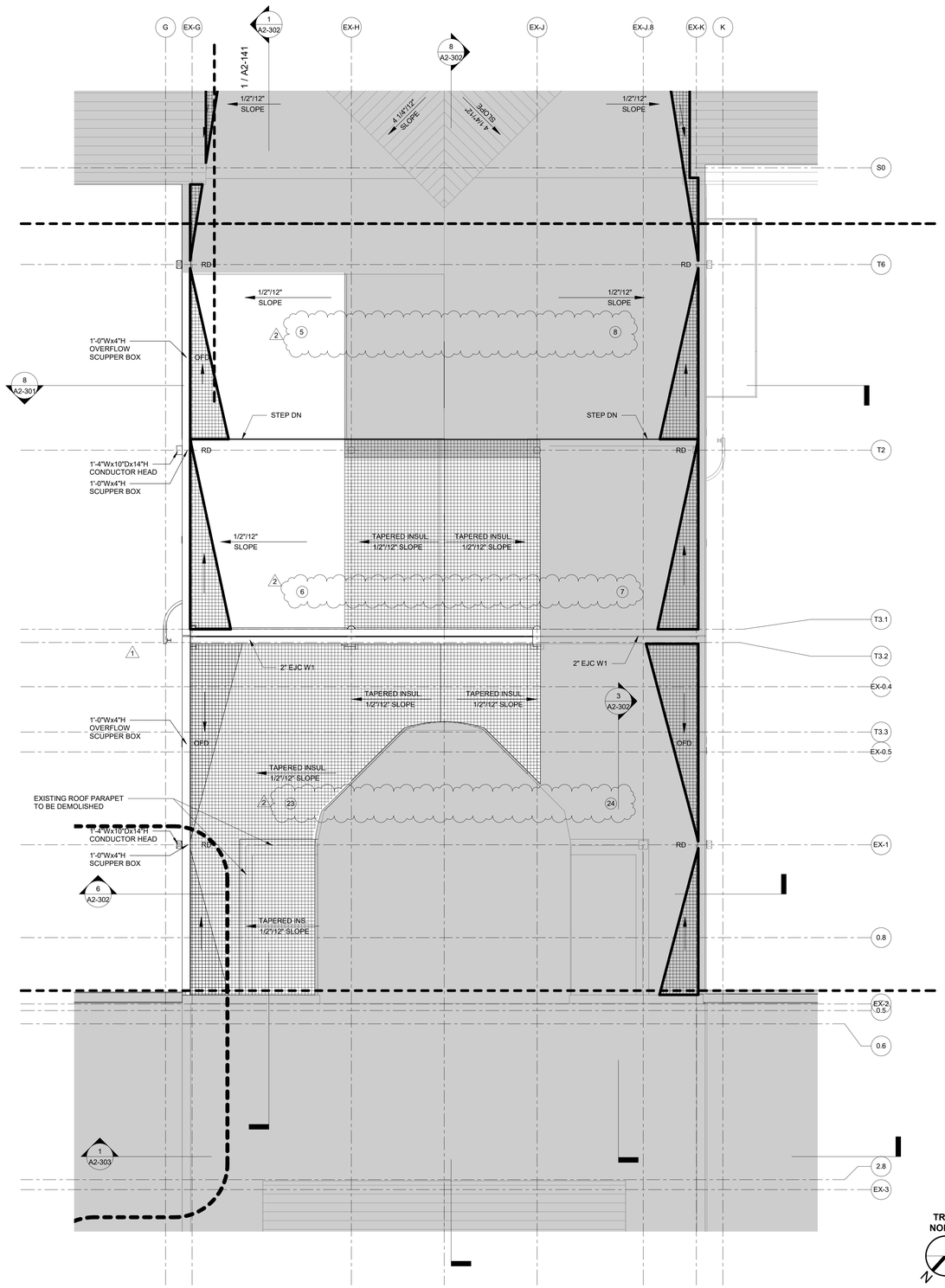
1	7/30/2019	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - ROOF LEVEL PLAN ZONE 1

SHEET NUMBER

A2-141



1 SCHEDULE 2 - ROOF PLAN ZONE 3

1/8" = 1'-0"

ROOF DRAINAGE CALCULATIONS

DRAINAGE AREA (X)	MAX. SF	AREA SF	LEADER SIZE	REMARKS:
1	8,240 SF	1,218 SF	4" X 6"	(1) PRIMARY ROOF DRAIN 4"/HR PER P1106.1 (2) MAX. VERTICAL CODUCTOR FOR 4"/HR RAINFALL RATE FOR X" DIA. LEADER (3) SEE PLUMBING DRAWINGS FOR ROOF DRAIN SIZES AND LOCATIONS. (RD)=PRIMARY ROOF DRAIN) (ORD=OVERFLOW ROOF DRAIN / SCUPPER) (4) PARAPET WALL ROOF DRAINAGE OVERFLOW SCUPPER SIZED PER P1106.5 (12"L X 6"H) (1 GPM=0.0104 X RAINFALL RATE X AREA)
2	8,240 SF	2,210 SF	4" X 6"	
3	8,240 SF	1,080 SF	4" X 6"	
4	8,240 SF	2,259 SF	4" X 6"	
5	8,240 SF	2,342 SF	4" X 6"	
6	8,240 SF	1,135 SF	4" X 6"	
7	8,240 SF	1,135 SF	4" X 6"	
8	8,240 SF	2,861 SF	4" X 6"	
9	8,240 SF	2,231 SF	4" X 6"	
10	8,240 SF	1,104 SF	4" X 6"	
11	8,240 SF	2,189 SF	4" X 6"	
12	8,240 SF	1,297 SF	4" X 6"	
13	8,240 SF	1,197 SF	4" X 6"	
14	8,240 SF	1,105 SF	4" X 6"	
15	8,240 SF	2,106 SF	4" X 6"	
16	8,240 SF	2,365 SF	4" X 6"	
17	8,240 SF	2,564 SF	4" X 6"	
18	8,240 SF	2,564 SF	4" X 6"	
19	8,240 SF	2,372 SF	4" X 6"	
20	8,240 SF	2,130 SF	4" X 6"	
21	8,240 SF	1,748 SF	4" X 6"	
22	8,240 SF	1,748 SF	4" X 6"	
23	8,240 SF	1,651 SF	4" X 6"	
24	8,240 SF	1,650 SF	4" X 6"	

ROOF DRAINAGE LEGEND

- AREA
- TAPERED INSULATION
- METAL ROOF
- SLOPE DIRECTION

ROOF NOTE

1. SEE DETAILS 18 & 19 /A-514 FOR LIGHTNING ARREST MOUNTING DETAILS

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
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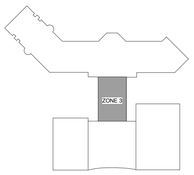
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM



KEY PLAN

REVISIONS

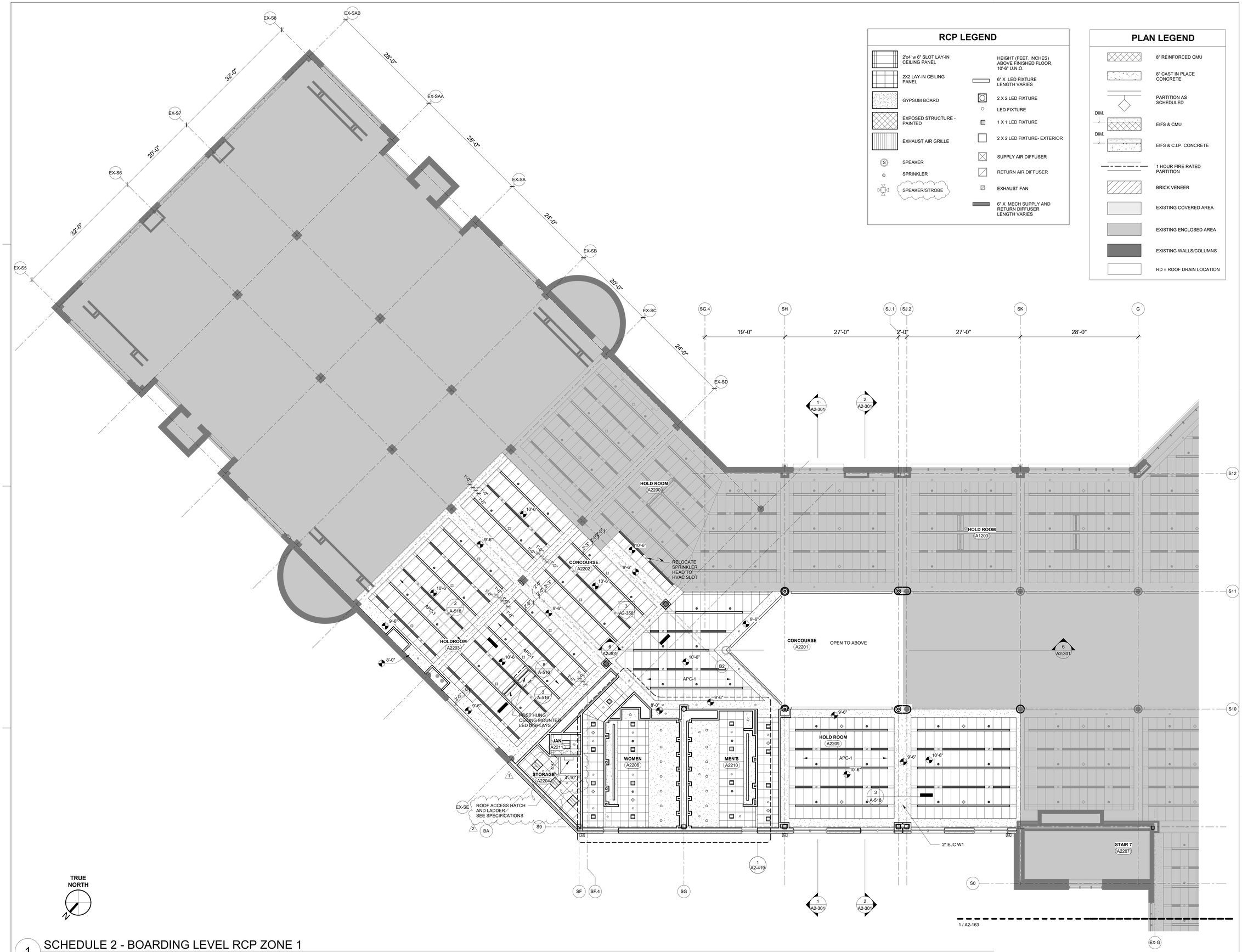
1	7/12/2019	AD-01
2	7/30/2019	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - ROOF LEVEL PLAN ZONE 3

SHEET NUMBER

A2-143



RCP LEGEND

- 2'x4' w 6" SLOT LAY-IN CEILING PANEL
- 2X2 LAY-IN CEILING PANEL
- GYPSUM BOARD
- EXPOSED STRUCTURE - PAINTED
- EXHAUST AIR GRILLE
- S SPEAKER
- SPRINKLER
- SPEAKER/STROBE

HEIGHT (FEET, INCHES) ABOVE FINISHED FLOOR, 10'-6" U.N.O.

- 6" X LED FIXTURE LENGTH VARIES
- 2 X 2 LED FIXTURE
- LED FIXTURE
- 1 X 1 LED FIXTURE
- 2 X 2 LED FIXTURE- EXTERIOR
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST FAN
- 6" X MECH SUPPLY AND RETURN DIFFUSER LENGTH VARIES

PLAN LEGEND

- 8" REINFORCED CMU
- 8" CAST IN PLACE CONCRETE
- PARTITION AS SCHEDULED
- DIM. EIFS & CMU
- DIM. EIFS & C.I.P. CONCRETE
- 1 HOUR FIRE RATED PARTITION
- BRICK VENEER
- EXISTING COVERED AREA
- EXISTING ENCLOSED AREA
- EXISTING WALLS/COLUMNS
- RD = ROOF DRAIN LOCATION

1 SCHEDULE 2 - BOARDING LEVEL RCP ZONE 1
1/8" = 1'-0"

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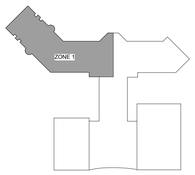

KEY PLAN

REVISIONS

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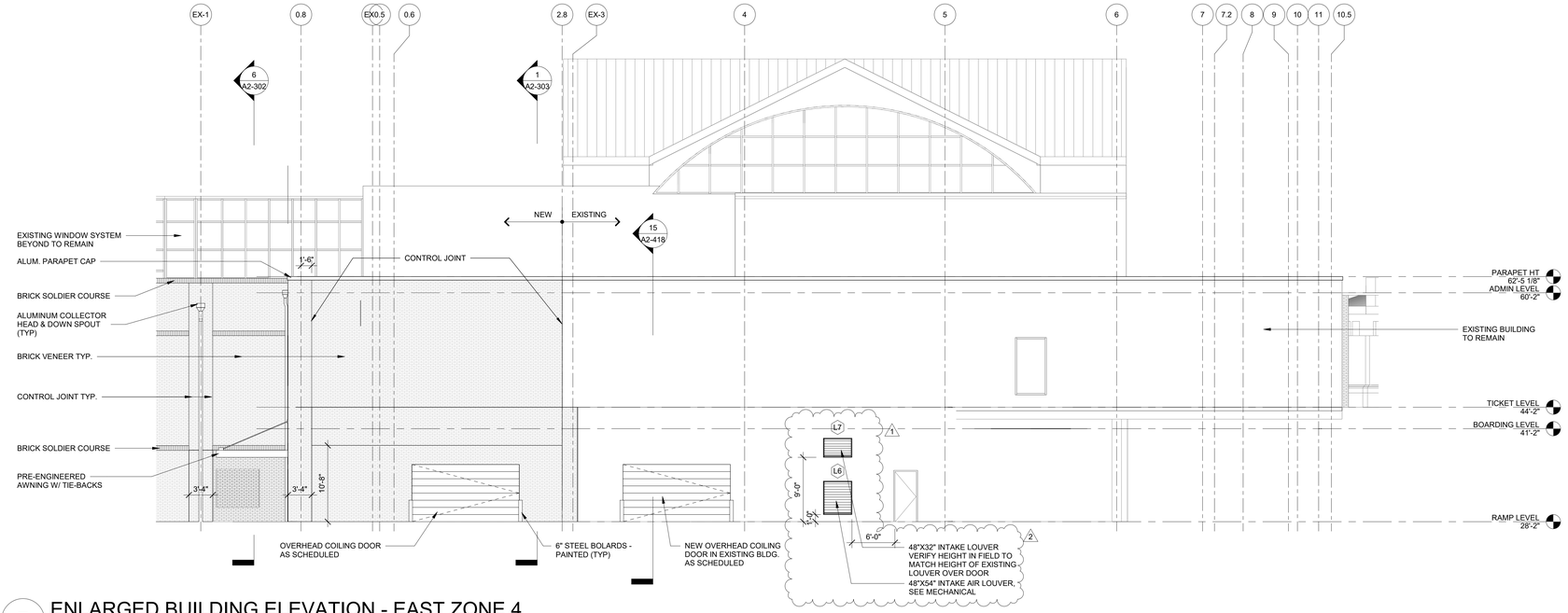
DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - BOARDING LEVEL RCP ZONE 1

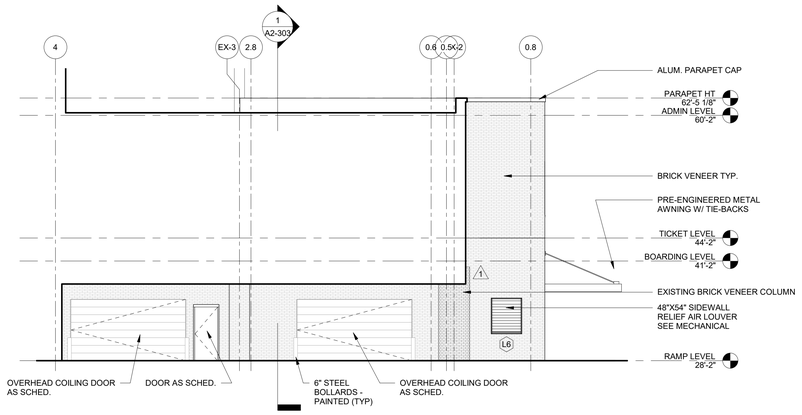
SHEET NUMBER

A2-161



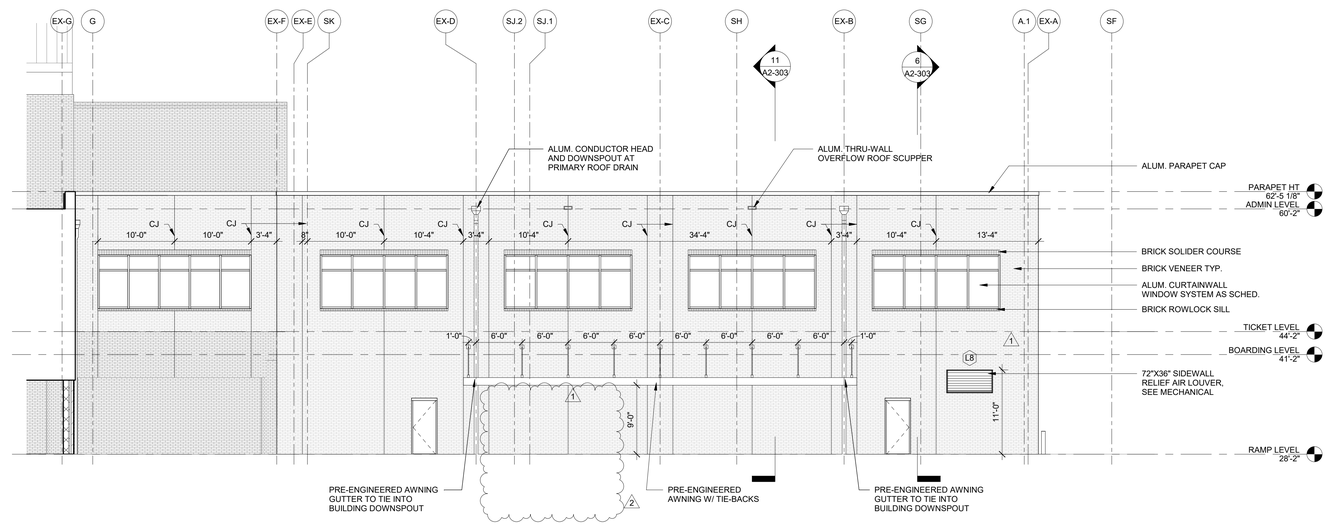
7 ENLARGED BUILDING ELEVATION - EAST ZONE 4

1/8" = 1'-0"



1 ENLARGED EXTERIOR ELEVATION-WEST ZONE 4

1/8" = 1'-0"



3 ENLARGED BUILDING ELEVATION - SOUTH ZONE 4

1/8" = 1'-0"

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SHEET TITLE

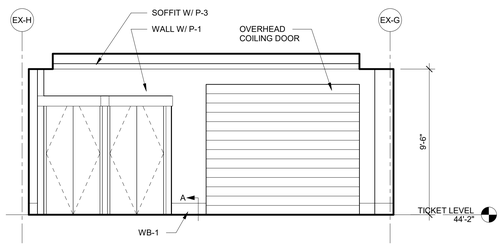
SCHEDULE 2 - BUILDING ELEVATIONS

SHEET NUMBER

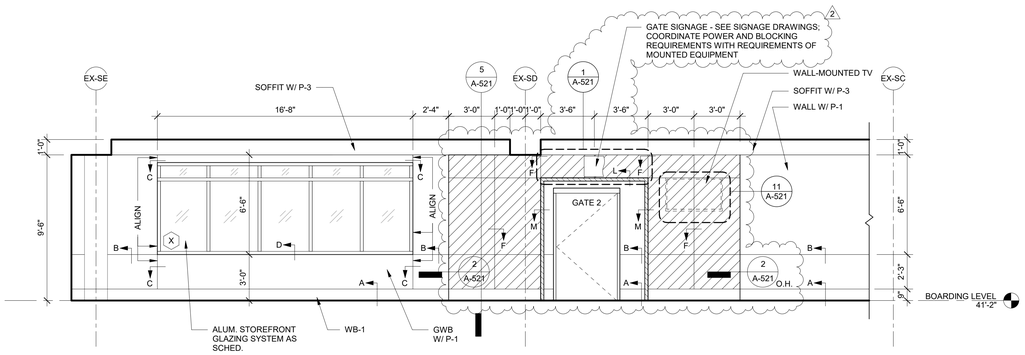
A2-222

GENERAL NOTES - INTERIOR ELEVATIONS

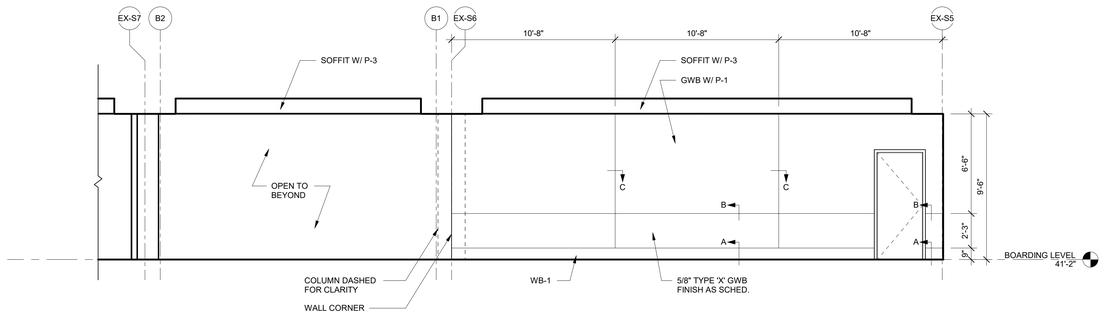
1. REFER TO SHEET A-654 FOR WALL BASE, WALL, AND PANEL REVEAL DETAILS.
2. ABBREVIATIONS:
   - CLR = CENTERLINE OF REVEAL
   - TOR = TOP OF REVEAL
   - BOR = BOTTOM OF REVEAL
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ARCHITECT FOR REVIEW AND APPROVAL OF ALL SPECIALTY WALL PANEL SYSTEMS (WPS) PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION
4. CONTRACTOR TO PROVIDE MOCKUPS OF EACH SPECIALTY WALL PANEL SYSTEM (WPS) FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT, FABRICATION, AND INSTALLATION.
5. ALL VERTICAL AND HORIZONTAL REVEALS ARE TO BE CONTINUOUS AND UNINTERRUPTED, U.N.O.
6. ALL DEAD STOP EXTRUSIONS ARE TO BE CONTINUOUS AND UNINTERRUPTED.



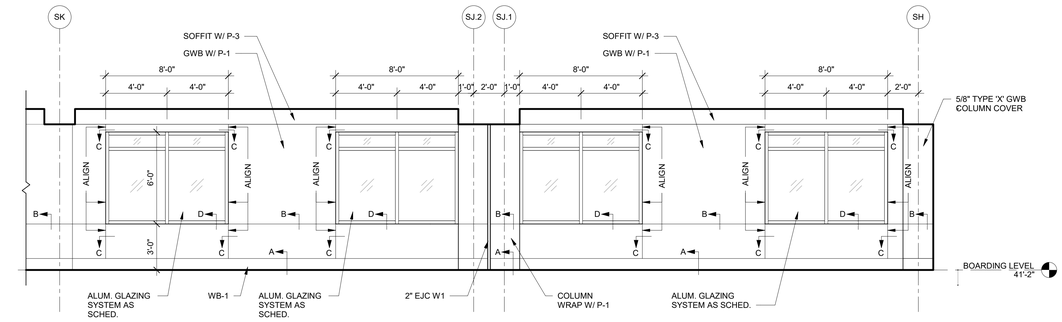
17 SCH 2 INT ELEV - CIRCULATION SOUTH
1/4" = 1'-0"



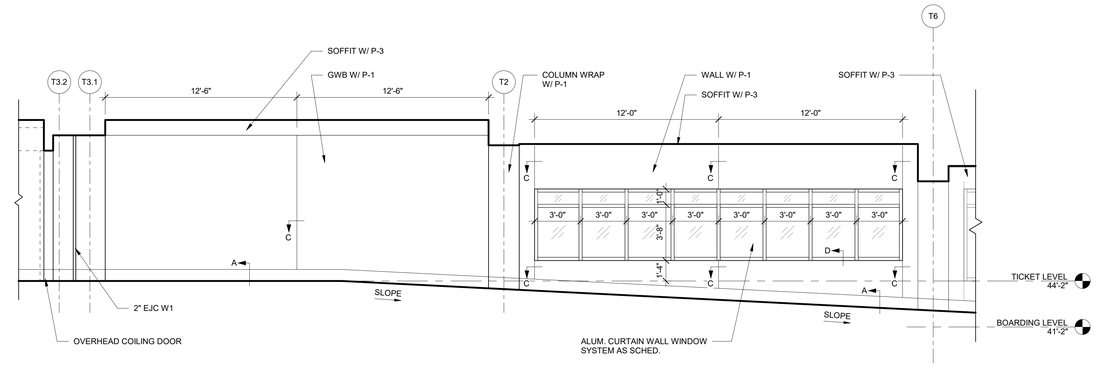
11 INTERIOR ELEVATION - HOLDROOM A2203
1/4" = 1'-0"



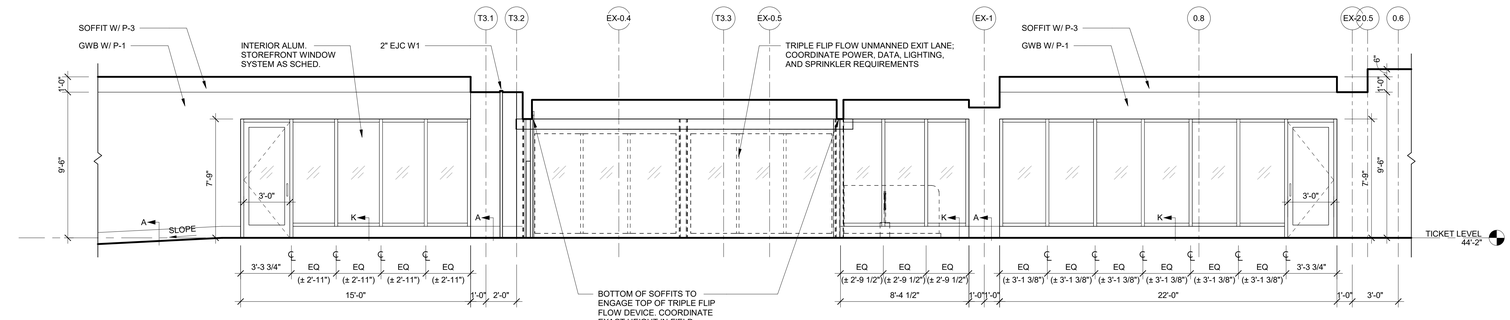
13 INTERIOR ELEVATION - HOLDROOM A2203
1/4" = 1'-0"



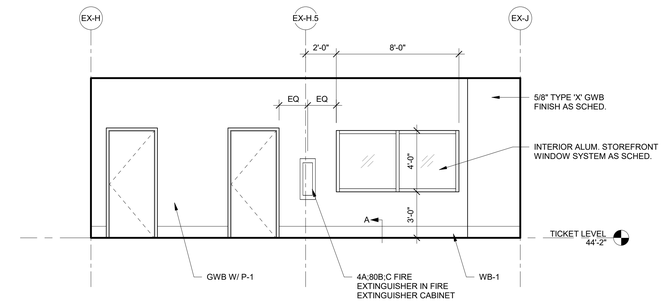
6 INTERIOR ELEVATION - HOLDROOM A2209
1/4" = 1'-0"



8 INTERIOR ELEVATION - SLOPE WEST
1/4" = 1'-0"



1 INTERIOR ELEVATION - SLOPE EAST
1/4" = 1'-0"



5 INTERIOR ELEVATION - PSR/OFFICE
1/4" = 1'-0"

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2	7/30/2019	AD-03

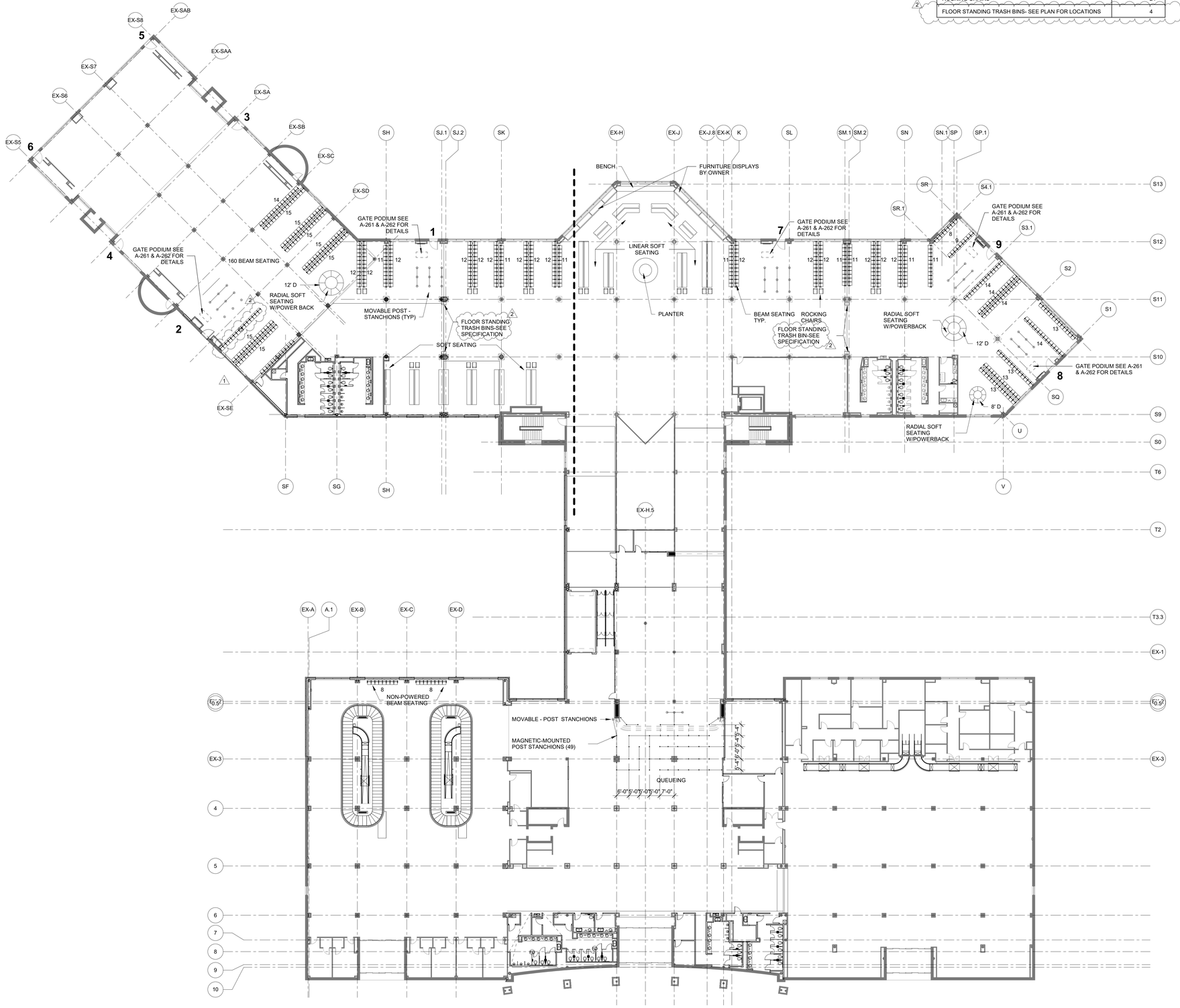
DATE	6/28/2019
PROJECT NUMBER	9202-000
SHEET TITLE	

SCHEDULE 2 - INTERIOR ELEVATIONS

SHEET NUMBER

A2-251

SEAT TYPE	QNTY.
BEAM SEATING - POWERED (TYP)	539
BEAM SEATING - NOT POWERED - SEE PLAN FOR LOCATIONS	16
LINEAR SOFT SEATING	277 +/-
RADIAL SOFT SEATING	40 +/-
ROCKING CHAIRS	24
FLOOR STANDING TRASH BINS- SEE PLAN FOR LOCATIONS	4



1 SCHEDULE 2 - TICKET LEVEL OVERALL FURNITURE FLOOR PLAN
1" = 20'-0"

ILM

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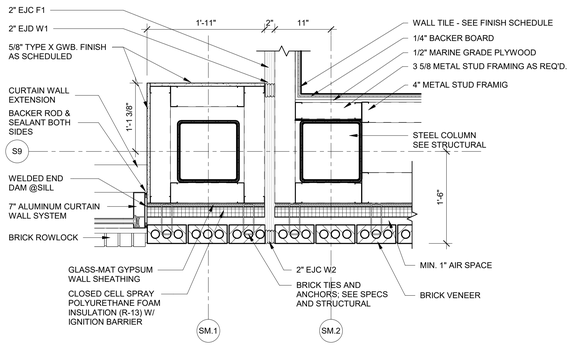
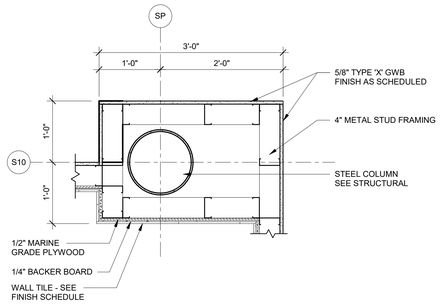
DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - BOARDING LEVEL FURNITURE PLAN

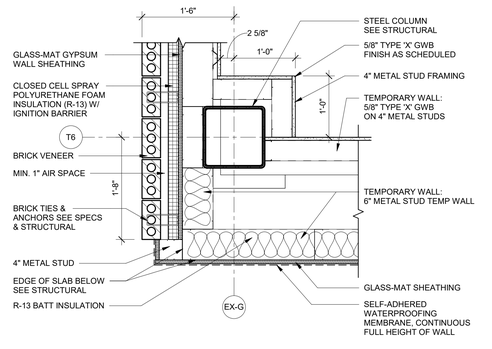
SHEET NUMBER
A2-731



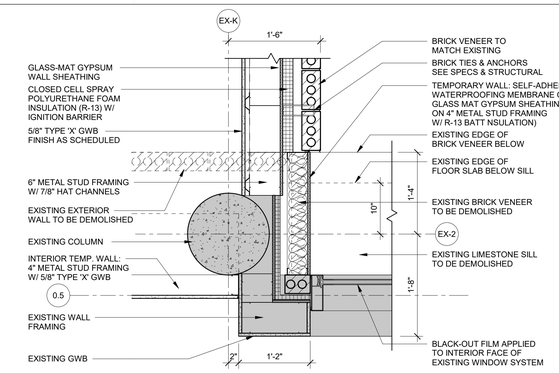
16 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



17 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



18 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



19 PLAN DETAIL AT BOARDING LEVEL
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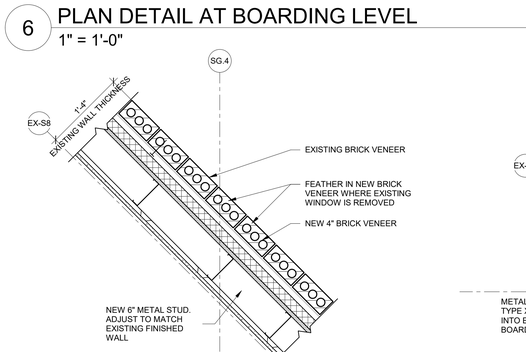
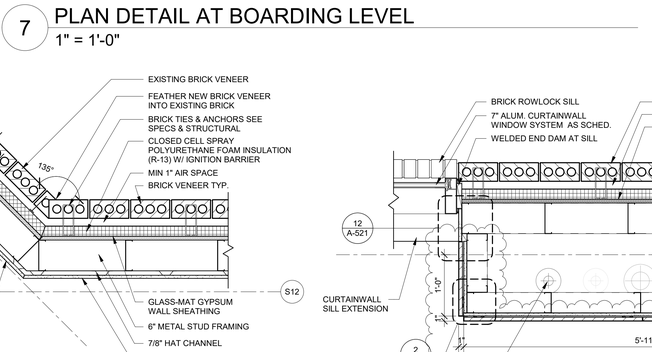


11 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



12 PLAN DETAIL AT BOARDING LEVEL
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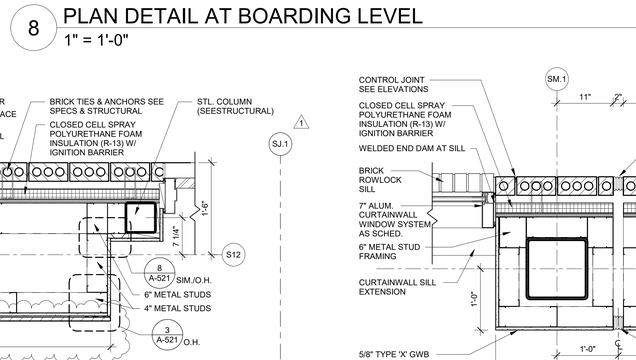
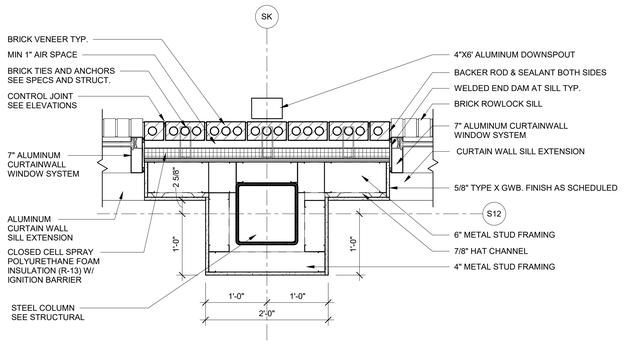
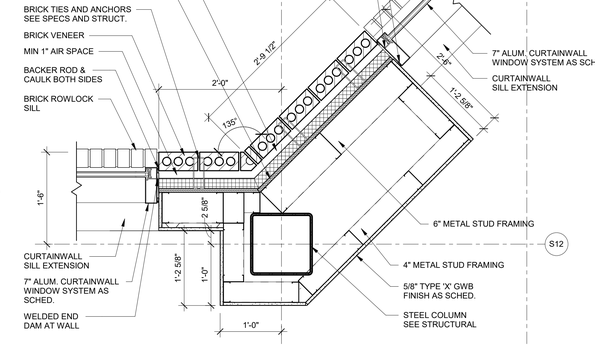


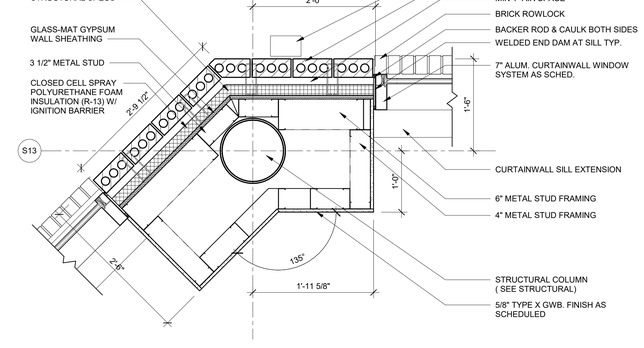
13 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



6 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



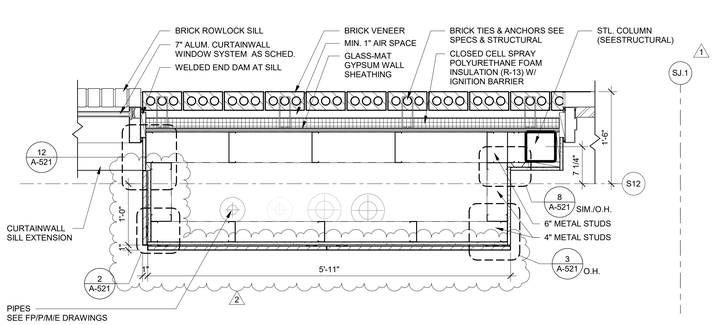
7 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



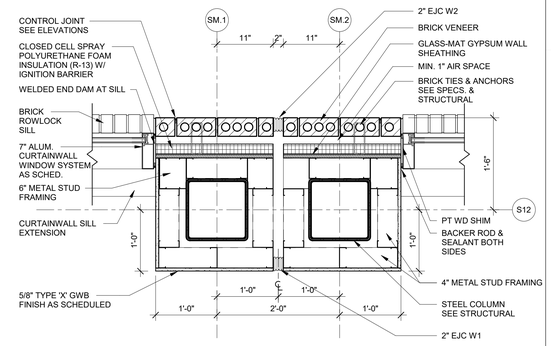
8 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"

1 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"

2 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



3 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



4 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"

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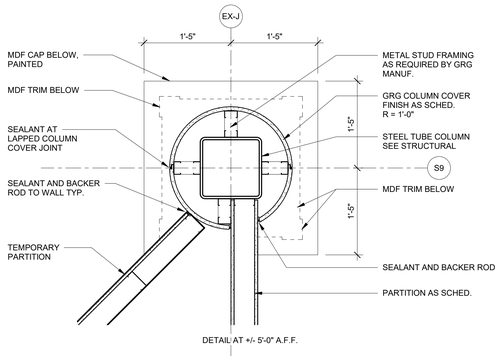
SHEET TITLE

PLAN DETAILS

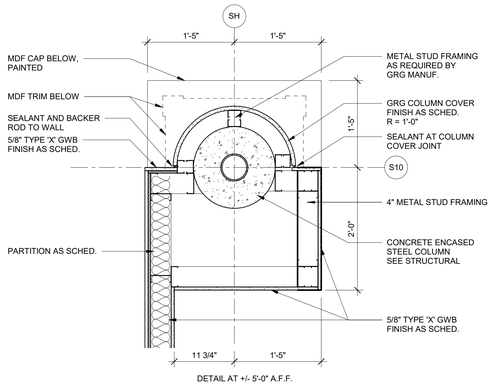
SHEET NUMBER

A-503



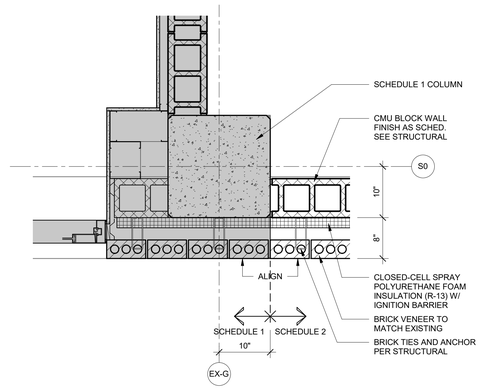
DETAIL AT +/- 5'-0" A.F.F.

16 PLAN DETAIL AT COLUMN COVER
1" = 1'-0"

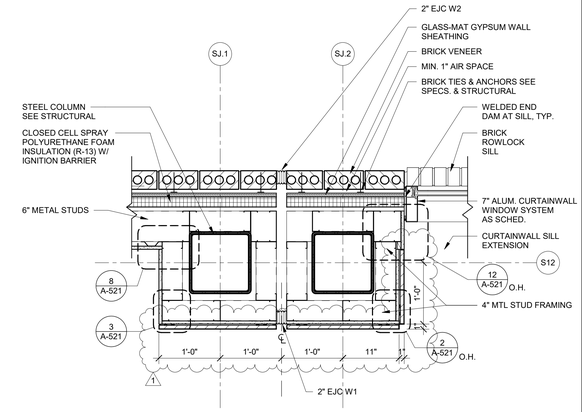


DETAIL AT +/- 5'-0" A.F.F.

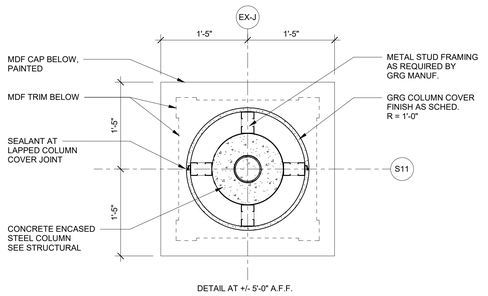
17 PLAN DETAIL AT COLUMN COVER
1" = 1'-0"



18 PLAN DETAIL AT RAMP LEVEL
1" = 1'-0"

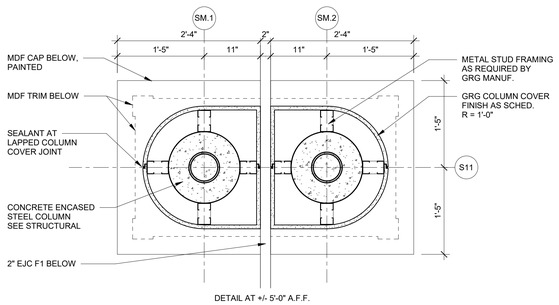


20 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



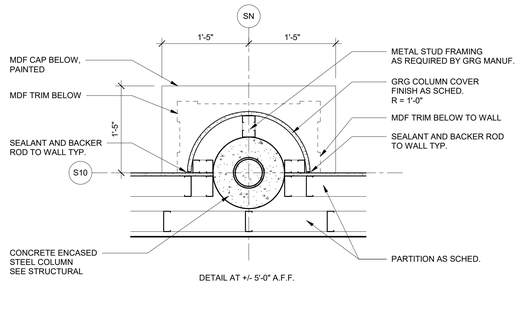
DETAIL AT +/- 5'-0" A.F.F.

11 PLAN DETAIL AT COLUMN COVER
1" = 1'-0"



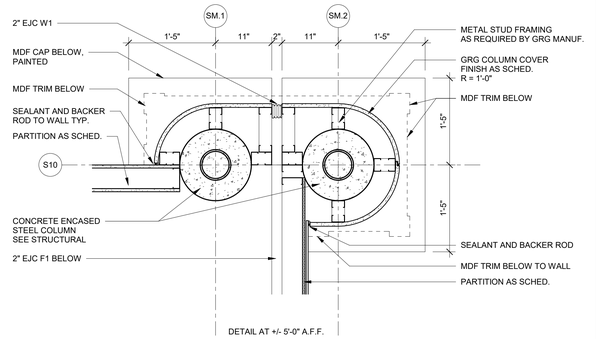
DETAIL AT +/- 5'-0" A.F.F.

12 PLAN DETAIL AT COLUMN COVER
1" = 1'-0"



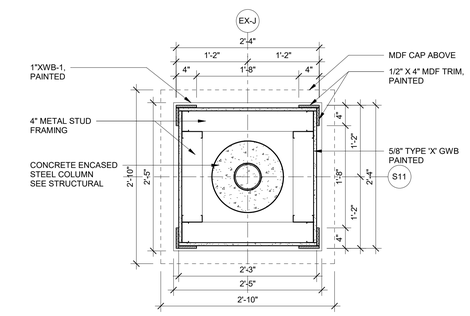
DETAIL AT +/- 5'-0" A.F.F.

13 PLAN DETAIL AT COLUMN COVER
1" = 1'-0"



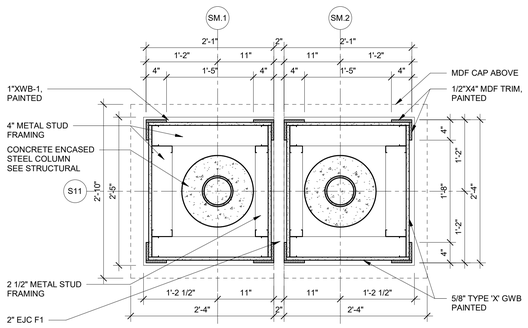
DETAIL AT +/- 5'-0" A.F.F.

14 PLAN DETAIL AT COLUMN COVER
1" = 1'-0"



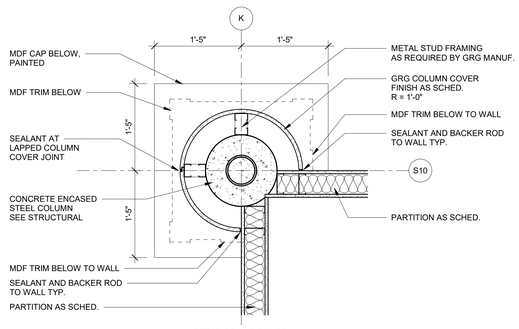
DETAIL AT +/- 3'-0" A.F.F.

6 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



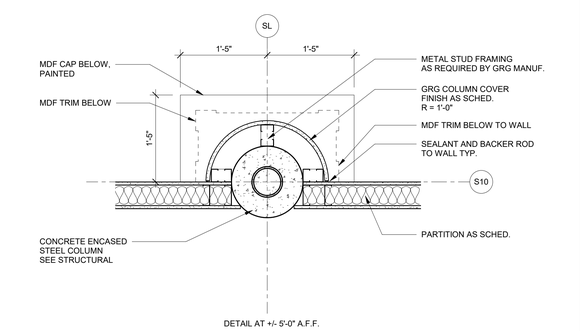
DETAIL AT +/- 3'-0" A.F.F.

7 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



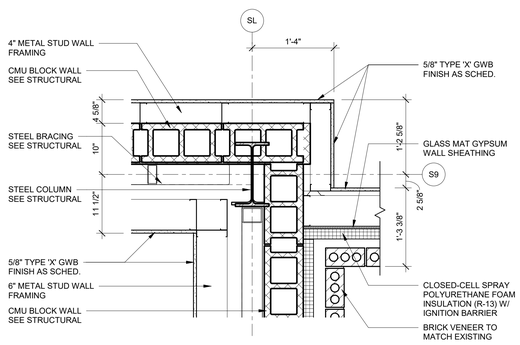
DETAIL AT +/- 5'-0" A.F.F.

8 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"

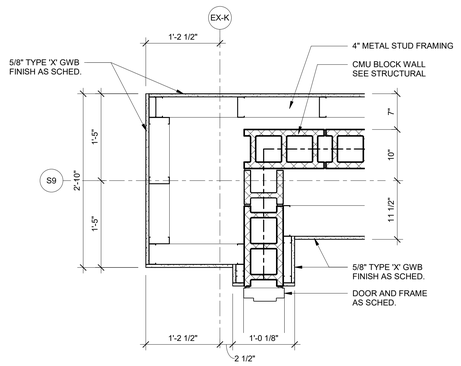


DETAIL AT +/- 5'-0" A.F.F.

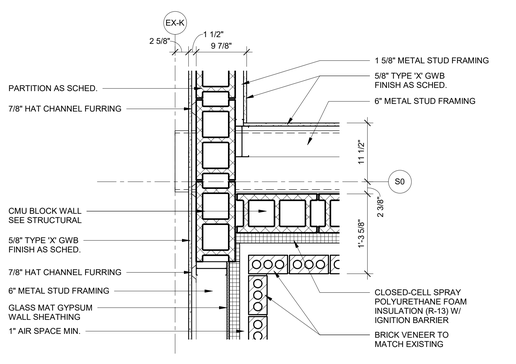
9 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



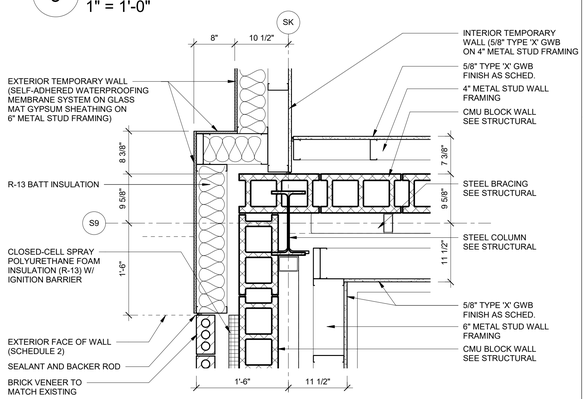
1 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



2 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



3 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"



4 PLAN DETAIL AT BOARDING LEVEL
1" = 1'-0"

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EVANS WALKER PAUL REGISTERED LANDSCAPE ARCHITECT 9272 NORTH CAROLINA CHARLOTTE, N.C.

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1 7/30/2019 AD-03

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PROJECT NUMBER 9202-000
SHEET TITLE

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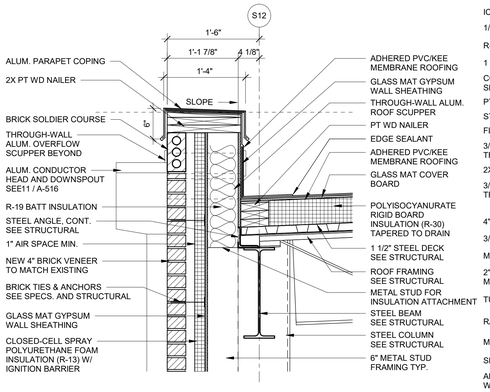
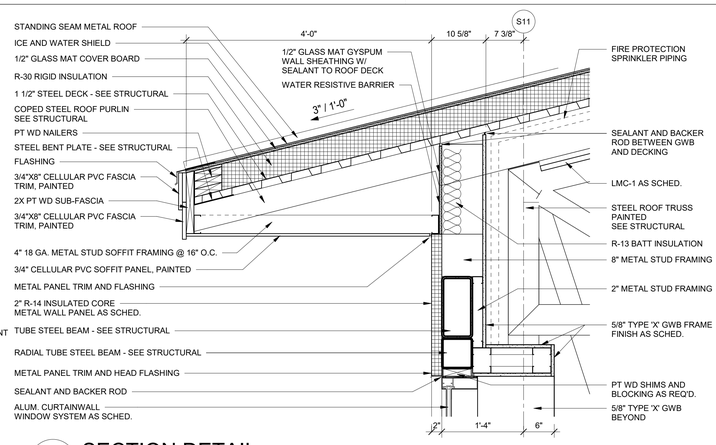
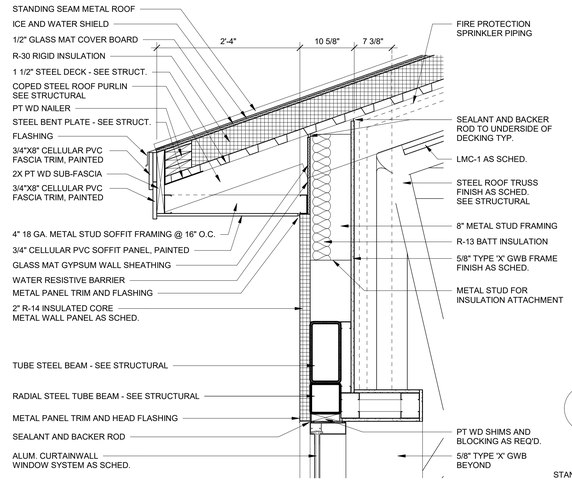


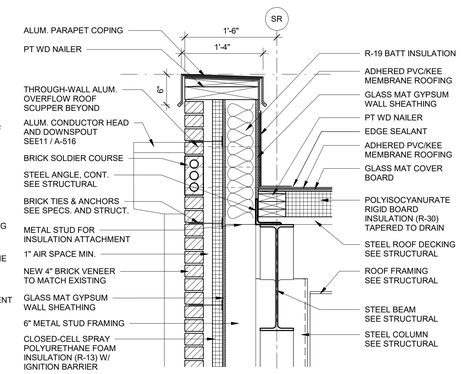
16 SECTION DETAIL
1" = 1'-0"



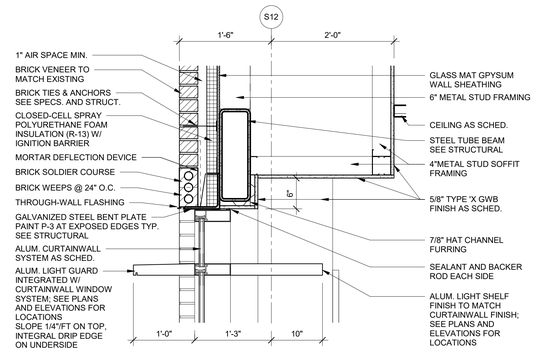
17 SECTION DETAIL
1" = 1'-0"



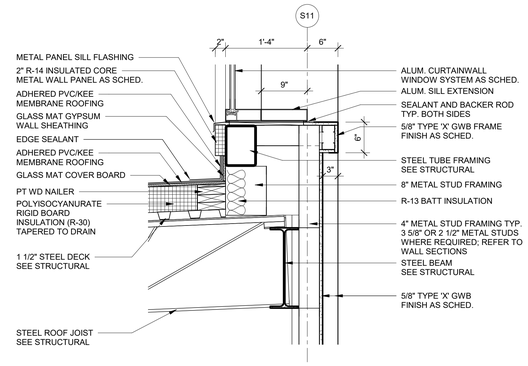
18 SECTION DETAIL
1" = 1'-0"



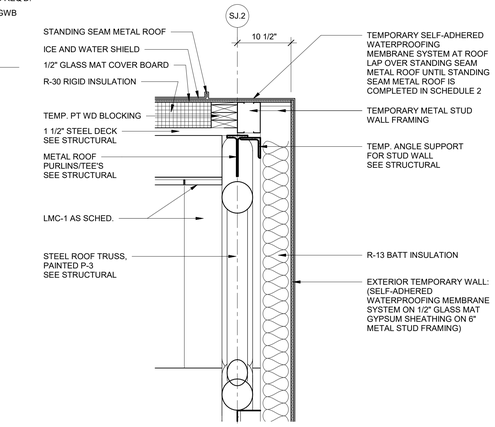
19 SECTION DETAIL
1" = 1'-0"



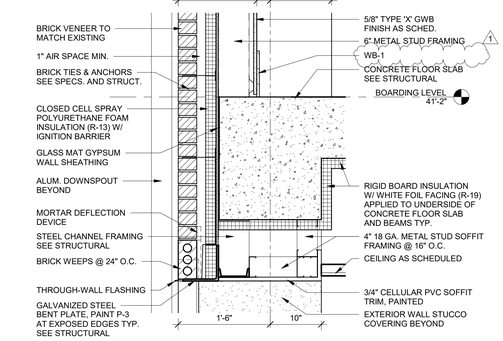
11 SECTION DETAIL
1" = 1'-0"



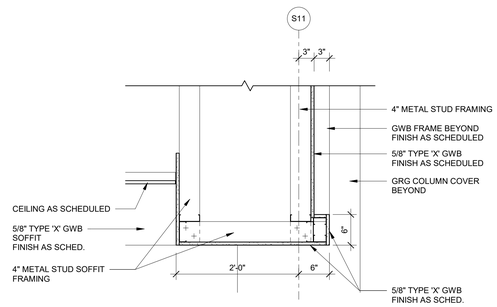
12 SECTION DETAIL
1" = 1'-0"



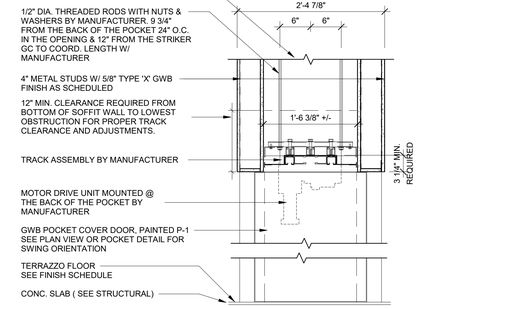
14 SECTION DETAIL
1" = 1'-0"



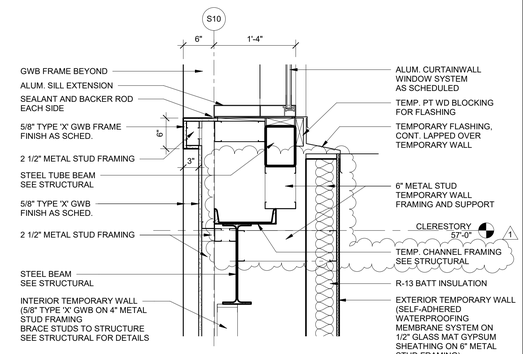
6 SECTION DETAIL
1" = 1'-0"



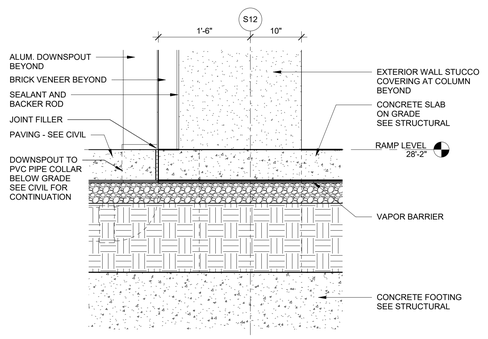
7 SECTION DETAIL
1" = 1'-0"



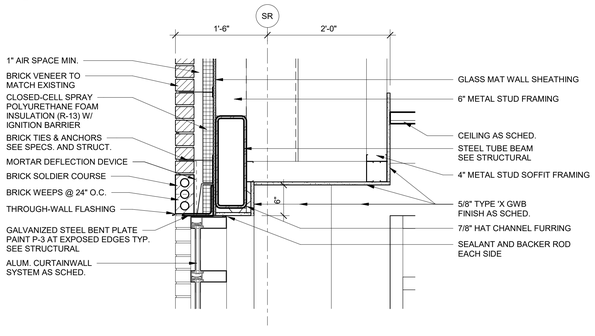
8 HEAD DETAL ACCORDION DOOR AT SLOPE
1" = 1'-0"



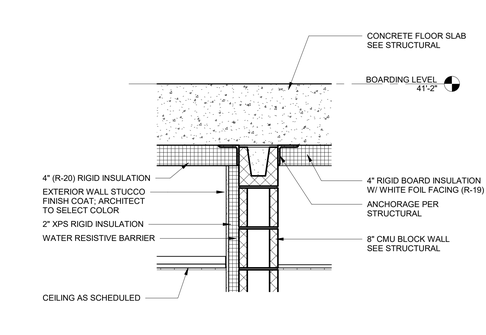
9 SECTION DETAIL
1" = 1'-0"



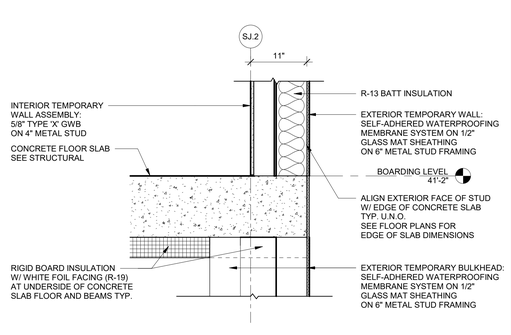
1 FOUNDATION DETAIL 1
1" = 1'-0"



2 SECTION DETAIL
1" = 1'-0"



3 SECTION DETAIL
1" = 1'-0"



4 SECTION DETAIL
1" = 1'-0"

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STEVEN WALKER PAGE, REGISTERED ARCHITECT, 9272, NORTH CAROLINA, CHARLOTTE, N.C.

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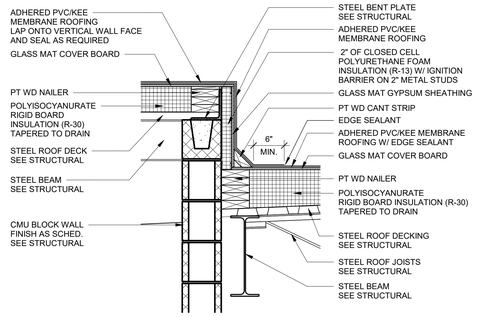
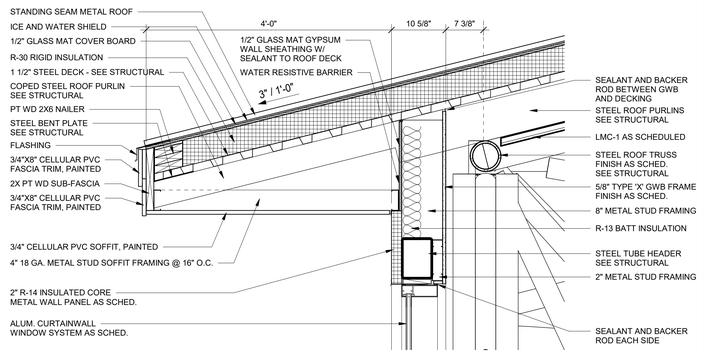


17 SECTION DETAIL
1" = 1'-0"



19 SECTION DETAIL
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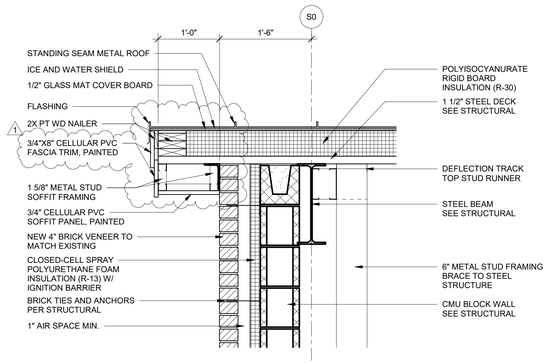
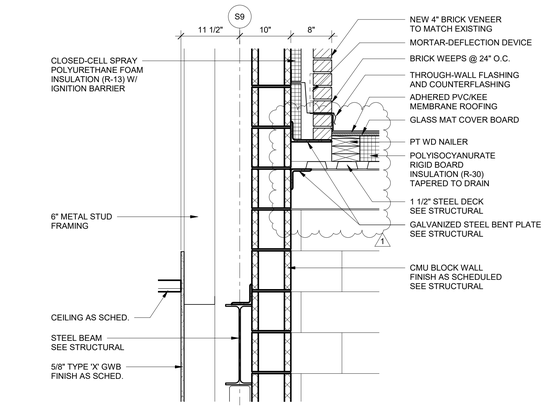
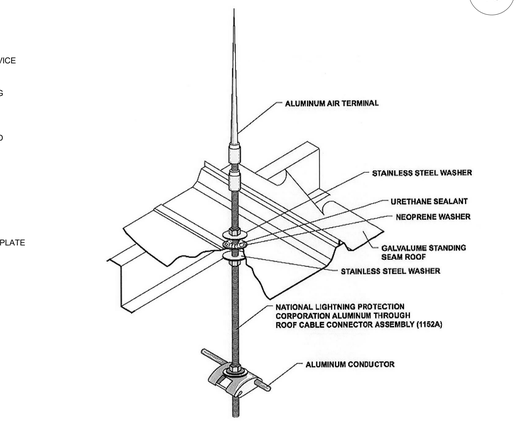


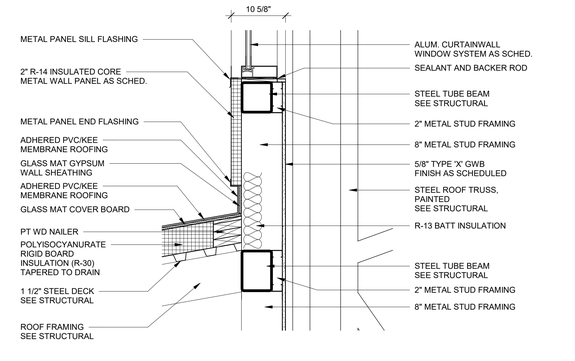
11 SECTION DETAIL
1" = 1'-0"



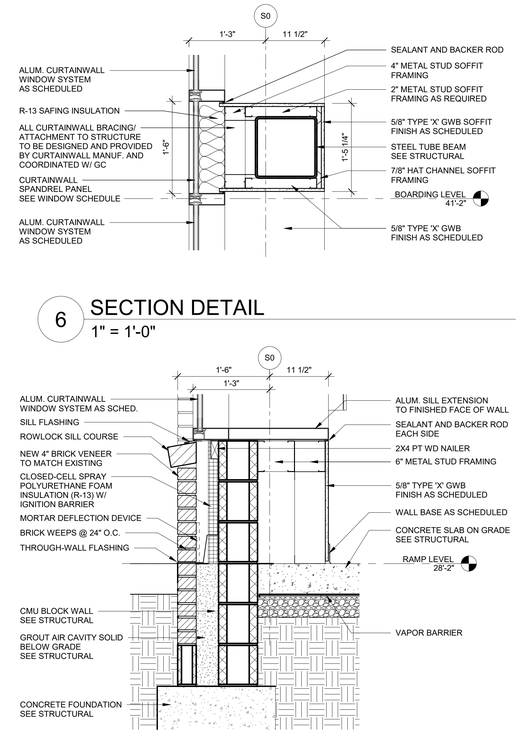
12 SECTION DETAIL
1" = 1'-0"



13 LIGHTNING ARREST DETAIL
N.T.S.

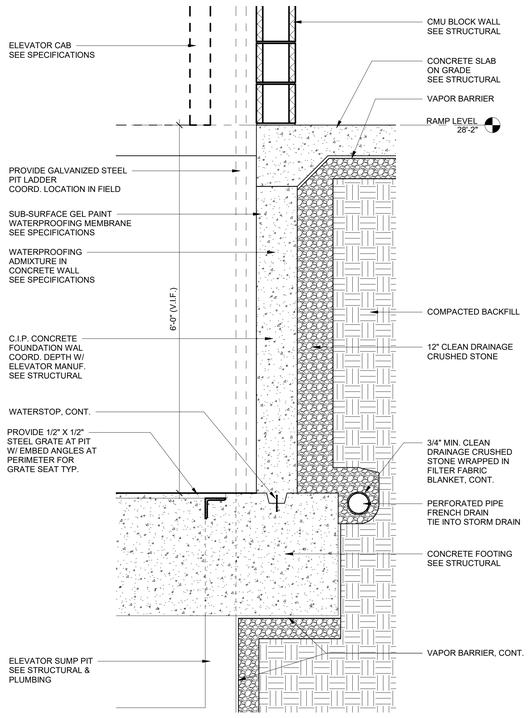


14 ROOF DETAIL AT CUPOLA 1
1" = 1'-0"

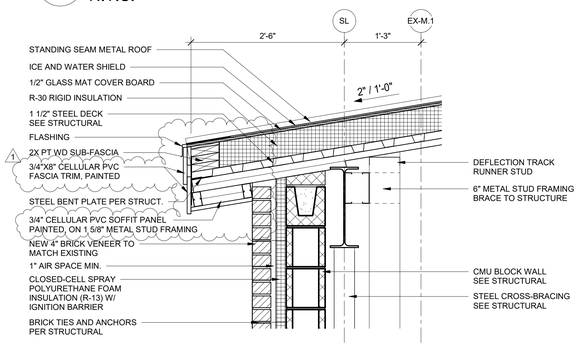


6 SECTION DETAIL
1" = 1'-0"

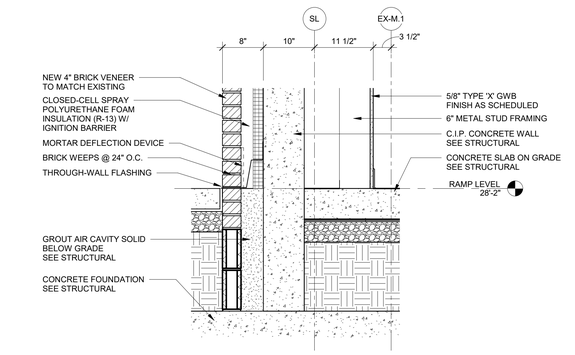
1 SECTION DETAIL
1" = 1'-0"



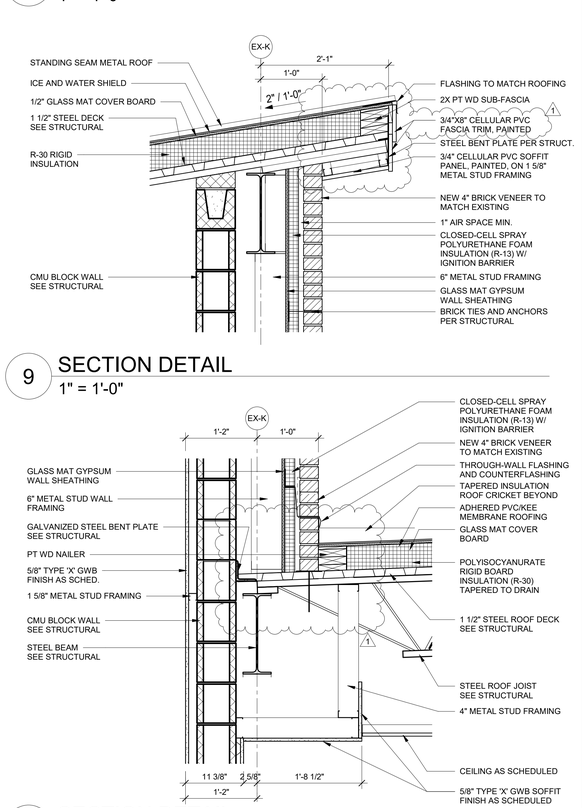
2 SECTION DETAIL
1" = 1'-0"



8 SECTION DETAIL
1" = 1'-0"



3 SECTION DETAIL
1" = 1'-0"



9 SECTION DETAIL
1" = 1'-0"

4 SECTION DETAIL
1" = 1'-0"

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SHEET TITLE

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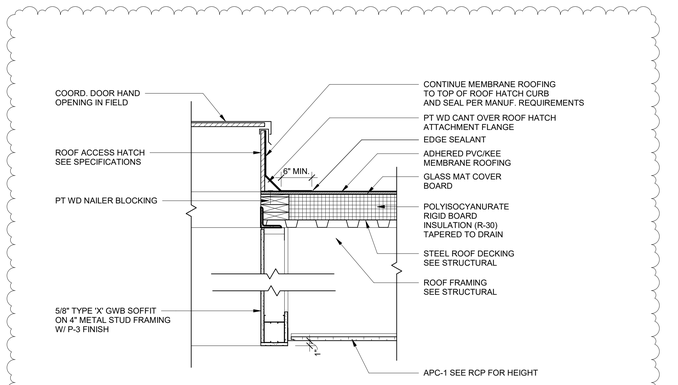
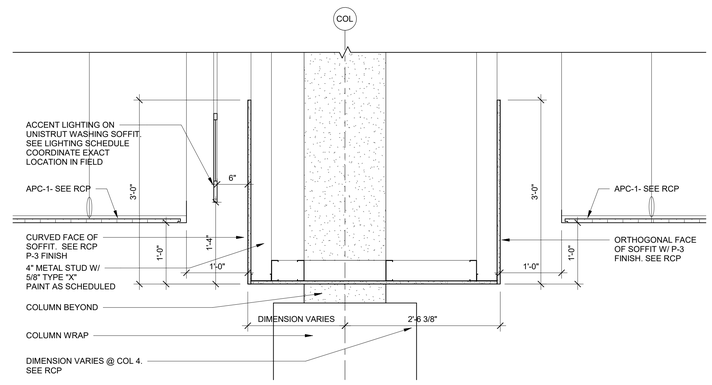
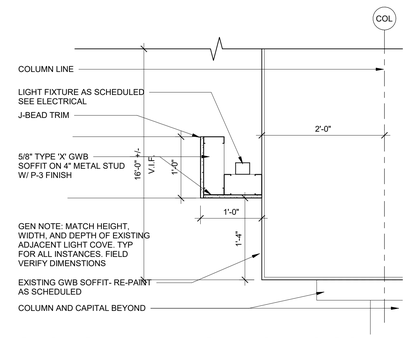
A-512



6 ROOF ACCESS HATCH DETAIL
1" = 1'-0"



9 TYPICAL CURVED SOFFIT @ BAG CLAIM AREA
1" = 1'-0"



10 SECTION DETAIL @ EXISTING SOFFIT
1" = 1'-0"

1 TYP. SOFFIT @ EXTERIOR WALL
1" = 1'-0"

2 TYP. SOFFIT DETAIL
1" = 1'-0"

3 TYPICAL SOFFIT DETAIL @ EXP JOINT
1" = 1'-0"

4 BULKHEAD @ RAMP
1" = 1'-0"

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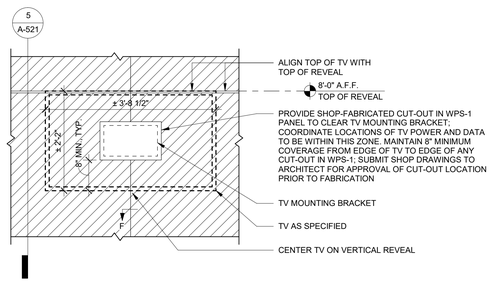
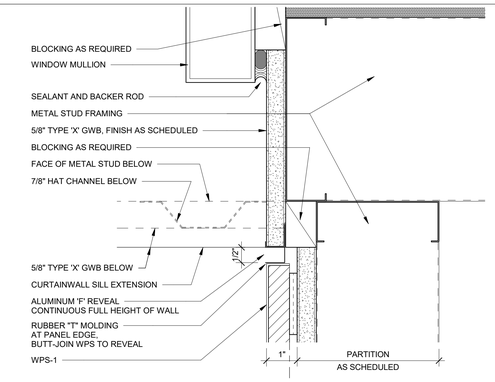
TYPICAL SOFFIT DETAILS

SHEET NUMBER

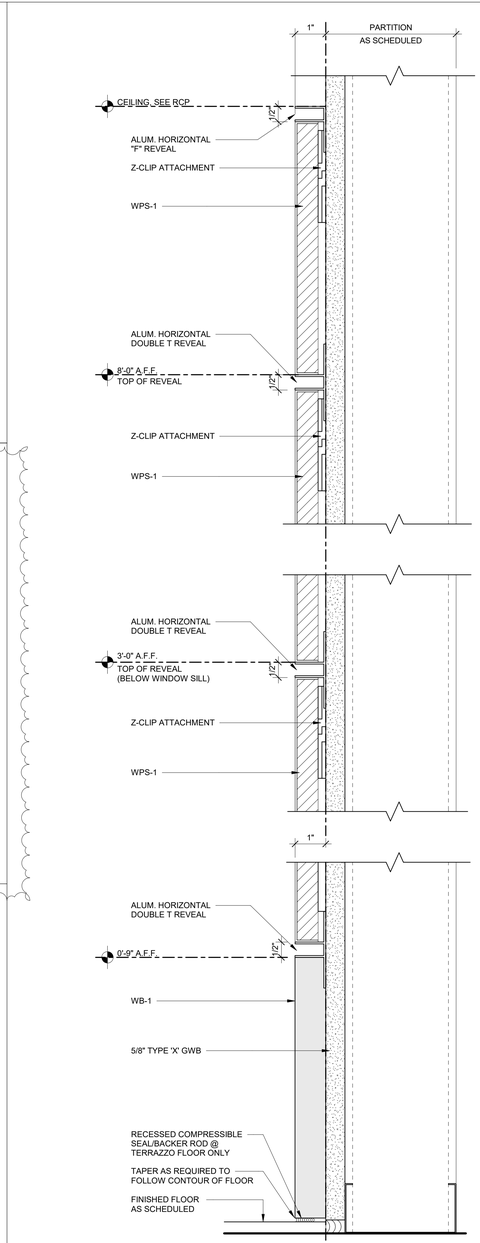
A-518



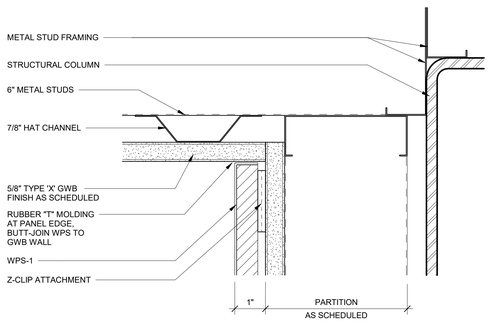
11 ENLARGED ELEVATION AT GATE WALL TV
3/4" = 1'-0"



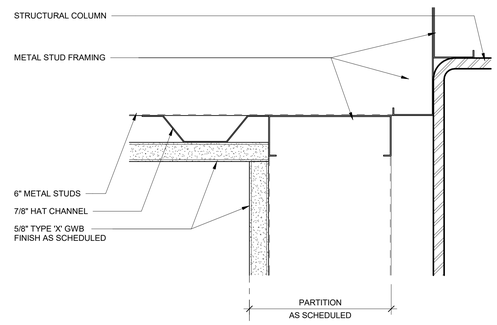
12 PLAN DETAIL @ GATE WALL
6" = 1'-0"



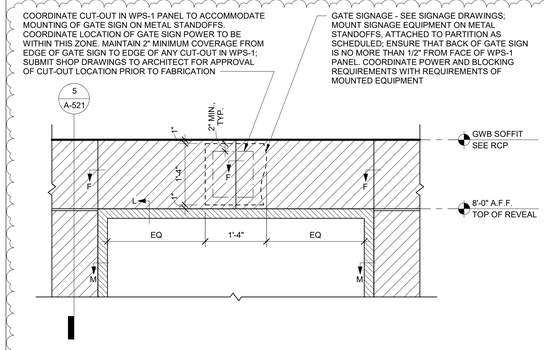
5 WALL SECTION @ GATE WALL
6" = 1'-0"



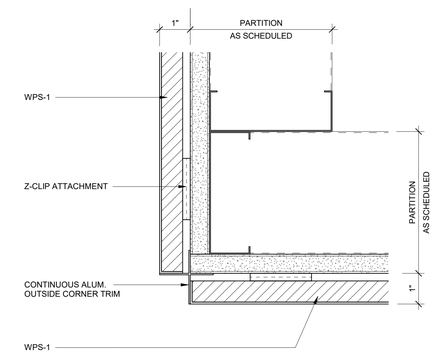
7 PLAN DETAIL @ GATE WALL
6" = 1'-0"



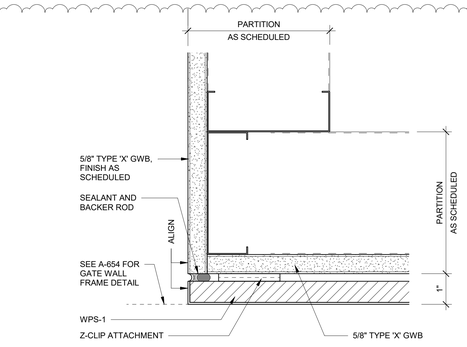
8 PLAN DETAIL @ GATE WALL
6" = 1'-0"



1 ENLARGED ELEV AT GATE WALL SIGNAGE
3/4" = 1'-0"



2 PLAN DETAIL @ GATE WALL
6" = 1'-0"



3 PLAN DETAIL @ GATE WALL
6" = 1'-0"

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

THE WILSON GROUP ARCHITECTS
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FP/P/M/E ENGINEER
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BAGGAGE HANDLING CONSULTANTS
BNP

AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

SPECIALTY WALL PANEL SYSTEM DETAILS

SHEET NUMBER
A-521

ROOM FINISH SCHEDULE 1

ROOM NUMBER	ROOM NAME	BASE	FLOORING	Wall Finish - North Wall	Wall Finish - East Wall	Wall Finish - South Wall	Wall Finish - West Wall	Ceiling Finish	REMARKS
RAMP LEVEL									
108	ELECTRICAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A1101	FUTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A1102	U.A. STORAGE	N/A	EXPOSED CONCRETE	N/A	N/A	N/A	N/A	N/A	
A1104	MECHANICAL	N/A	EXPOSED CONCRETE	N/A	N/A	N/A	N/A	N/A	
A1105	MECHANICAL	N/A	EXPOSED CONCRETE	N/A	N/A	N/A	N/A	N/A	
A1106	STAIR 6	RB-1	EXPOSED CONCRETE	P-1	P-1	P-1	P-1	APC-2	
A1107	STAIR 7	RB-1	EXPOSED CONCRETE	P-1	P-1	P-1	P-1	APC-2	
A1108	EMR	N/A	EXPOSED CONCRETE	N/A	N/A	N/A	N/A	N/A	
A1109	CORRIDOR	RB-1	EXPOSED CONCRETE	P-1	P-1	P-1	P-1	APC-2	
A1110	ELECTRICAL	N/A	EXPOSED CONCRETE	N/A	N/A	N/A	N/A	N/A	
A1111	MECHANICAL	N/A	EXPOSED CONCRETE	N/A	N/A	N/A	N/A	N/A	
A1112	IT	N/A	EXPOSED CONCRETE	N/A	N/A	N/A	N/A	N/A	
A1113	MECHANICAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A1115	VESTIBULE	RB-1	N/A	P-1	P-1	P-1	P-1	APC-2	
A1116	ELEV. #6	SEE ELEVATOR	SEE ELEVATOR	SEE ELEVATOR	SEE ELEVATOR	SEE ELEVATOR	SEE ELEVATOR	SEE ELEVATOR	
A1117	CONCESSION ENTRANCE	RB-1	EXPOSED CONCRETE	P-1	P-1	P-1	P-1	APC-2	
A1120	AIRLINE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A1130	FUTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A1131	FUTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A1132	STORAGE	N/A	EXPOSED CONCRETE	N/A	N/A	N/A	N/A	N/A	
A1135	SARA	N/A	SEE FLOOR PLAN	N/A	N/A	N/A	N/A	N/A	
A2134	FUTURE MECHANICAL	N/A	EXPOSED CONCRETE	N/A	N/A	N/A	N/A	N/A	
BOARDING LEVEL									
A1202	CORRIDOR	WB-1	CPT-1	P-1	P-1	P-1	P-1	APC-1	
A1205	HOLDROOM	WB-1	CPT-1	P-1	P-1	P-1	P-1	APC-1	
A1207	STAIR 7	RB-1	N/A	P-1	P-1	P-1	P-1	APC-2	
A1208	STAIR 6	RB-1	N/A	P-1	P-1	P-1	P-1	APC-2	
A1209	CONCOURSE	WB-1	TR-1,TR-2,TR-3	P-1	P-1	P-1	P-1	SEE RCP	
A1210	FUTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A1211	CONCOURSE	WB-1	TR-1,TR-2	P-1	P-1	P-1	P-1	SEE RCP	
A1212	HOLD ROOM	WB-1	CPT-1	P-1	P-1	P-1	P-1	ACP-1	
A1216	ELEVATOR 6	SEE ELEVATOR	SEE ELEVATOR	SEE ELEVATOR	SEE ELEVATOR	SEE ELEVATOR	SEE ELEVATOR	SEE ELEVATOR	
A1222	HOLD ROOM	WB-1	CPT-1	P-1	P-1	P-1	P-1	ACP-1	
A1223	HOLD ROOM	WB-1	CPT-1	P-1	P-1	P-1	P-1	ACP-1	
A1224	FAMILY REST ROOM	TRB-1	TR-1	WT-1	WT-1	WT-1	WT-1	ACP-2	
A1225	MOTHER'S ROOM	TRB-1	TR-1	WT-1	P-1	P-1	P-1	ACP-2	
A1226	JAN	TRB-1	TR-1	FRP-1	FRP-1	FRP-1	FRP-1	ACP-2	
A1227	WOMEN'S TOILET	TRB-1	TR-1	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	ACP-2/P-3	
A1228	MEN'S TOILET	TRB-1	TR-1	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	ACP-2/P-3	
A1236	HOLD ROOM	WT-1	TR-1,TR-2	P-1	P-1	P-1	P-1	ACP-1	
TICKET LEVEL									
A1232	CIRCULATION	WB-1	TR-1,TR-2	P-1	P-1	P-1	P-1	ACP-1	
A1233	CIRCULATION	WB-1	TR-1,TR-2	P-1	P-1	P-1	P-1	ACP-1	

ROOM FINISH SCHEDULE 2

ROOM NUMBER	ROOM NAME	BASE	FLOORING	Wall Finish - North Wall	Wall Finish - East Wall	Wall Finish - South Wall	Wall Finish - West Wall	Ceiling Finish	REMARKS
RAMP LEVEL									
A1132	STORAGE	N/A	EXPOSED CONCRETE	N/A	N/A	N/A	N/A	N/A	
A2101	FUTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A2102	MECHANICAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A2106	STAIR 6	RB-1	N/A	P-1	P-1	P-1	P-1	ACP-2	
A2107	STAIR 7	RB-1	N/A	P-1	P-1	P-1	P-1	ACP-2	
A2130	STORAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A2132	WORK	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2133	CONFERENCE/ BREAK RM	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2134	MECHANICAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A2135	HALL	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2136	UNISEX	TRB-1	TR-1	WT-1	WT-1	P-3	P-3	ACP-2	
A2137	UNISEX	TRB-1	TR-1	WT-1	WT-1	P-3	P-3	ACP-2	
A2138	STORAGE	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2139	STORAGE	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2140	OFFICE	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2141	OFFICE	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2142	OFFICE	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2143	OFFICE	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2144	INBOUND MAKE UP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
BOARDING LEVEL									
A1203	HOLD ROOM	WB-1	CPT-1	P-1	P-1	P-1	P-1	ACP-1	
A2200	HOLD ROOM	WB-1	CPT-1	P-1	P-1	P-1	P-1	ACP-1	
A2201	CONCOURSE	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	SEE RCP	
A2202	CONCOURSE	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	SEE RCP	
A2203	HOLDROOM	WB-1	CPT-1	P-1	P-1	P-1	P-1	ACP-1	
A2204	STORAGE	RB-1	N/A	P-1	P-1	P-1	P-1	ACP-2	
A2206	WOMEN	TRB-1	TR-1	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE RCP	
A2206	STAIR 6	RB-1	N/A	P-1	P-1	P-1	P-1	ACP-2	
A2207	STAIR 7	RB-1	N/A	P-1	P-1	P-1	P-1	ACP-2	
A2209	HOLD ROOM	WB-1	CPT-1	P-1	P-1	P-1	P-1	ACP-1	
A2210	MEN'S	TRB-1	TR-1	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE RCP	
A2211	JAN	RB-1	TR-1	FRP-1	FRP-1	FRP-1	FRP-1	ACP-2	
TICKET LEVEL									
A2208	Room	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	ACP-2	
A2231	CIRCULATION	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	ACP-2	
A2232	PSR	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	ACP-2	
A2233	OFFICE	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	ACP-2	
A2234	BYPASS	N/A	SEE FINISH PLAN	P-1	P-1	P-1	P-1	ACP-2	
A2235	EXIT	N/A	SEE FINISH PLAN	N/A	N/A	N/A	N/A	N/A	
A2236	EXIT	N/A	SEE FINISH PLAN	N/A	N/A	N/A	N/A	N/A	
A2237	CHECKPOINT								
A2238	CIRCULATION	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	SEE RCP	
A2239	CIRCULATION	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	SEE RCP	
A2241	CIRCULATION	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	SEE RCP	
A2242	CIRCULATION	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	SEE RCP	
A2243	BAGGAGE CLAIM	WB-1	CPT-1	P-1	P-1	P-1	P-1	SEE RCP	
A2244	CIRCULATION	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	SEE RCP	
A2246	BSO	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	N/A	
A2247	BS0	WB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	N/A	
A2251	MEN'S TOILET	TRB-1	SEE FINISH PLAN	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE RCP	
A2252	JANITOR	RB-1	SEE FINISH PLAN	FRP-1	FRP-1	FRP-1	FRP-1	ACP-2	
A2253	WOMEN'S TOILET	TRB-1	SEE FINISH PLAN	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE RCP	
A2254	FAMILY TOILET	TRB-1	SEE FINISH PLAN	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE RCP	
A2255	MOTHER'S ROOM	TRB-1	SEE FINISH PLAN	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE RCP	
A2257	MEN'S	TRB-1	SEE FINISH PLAN	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE RCP	
A2263	STORAGE								
A2264	JAN								
A2272	ELECTRICAL ROOM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A2273	OFFICE	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2274	CORRIDOR	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2275	WOMEN'S	TRB-1	SEE FINISH PLAN	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	ACP-2	
A2275	OFFICE	RB-1	CPT-2	P-1	P-1	P-1	P-1	ACP-2	
A2276	CHANGING ROOM	TRB-1	SEE FINISH PLAN	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	ACP-2	
A2277	JAN	RB-1	SEE FINISH PLAN	FRP-1	FRP-1	FRP-1	FRP-1	ACP-2	
A2504	SSCP QUEUE	TRB-1	SEE FINISH PLAN	P-1	P-1	P-1	P-1	SEE RCP	
A2505	FUTURE ATO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A2506	PASS SVC	RB-1	CPT-2	P-1	P-1	P-1	P-1	APC-2	

GENERAL FINISH NOTES

1. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING BUILDING CONSTRUCTION AND DIMENSIONS PRIOR TO SUBMITTALS AND NEW CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DEVIATIONS.
3. INTERIOR CAULKING SHALL BE ARCHITECTURAL GRADE TO MATCH THE COLOR OF ADJACENT SURFACES. SUBMIT SAMPLES TO ARCHITECT FOR VERIFICATION PRIOR TO PROCUREMENT AND INSTALLATION.
4. TRANSITION ALL FLOOR FINISHES AT CENTER OF DOOR, U.N.O.
5. ALL UNIDENTIFIED COLORS AND FINISHES SHALL BE SELECTED AND APPROVED BY ARCHITECT THROUGH THE SUBMITTAL PROCESS.
6. RECESSED WIREWAYS, ACCESS PANELS, GRILLES, ELECTRICAL PANELS, AND ALL OTHER SUCH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DEVICES SHALL BE FINISHED TO MATCH ADJACENT WALL OR CEILING SURFACE, U.N.O.
7. INTERIOR FINISHES SHALL MEET THE REQUIREMENTS OF SECTION 803 OF THE 2018 NCSBC, TABLE 803.3 OF THE 2018 IFC, AND 302 & 303 OF A117.1-2009.
8. ALL GWB CEILINGS SHALL BE PAINTED P-2, U.N.O.
9. WALL COVER PLATES SHALL BE STAINLESS STEEL, U.N.O.
10. ALL WALL-MOUNTED SWITCHES AND OUTLETS SHALL BE GRAY IN COLOR, U.N.O.
11. ALL EXPOSED DRAIN PIPES SHALL BE PAINTED TO MATCH EXISTING.
12. PREPARE FLOOR SURFACES TO RECEIVE NEW FLOOR FINISH PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDED INSTRUCTIONS.
13. EXISTING ROOMS WITH EXISTING PAINT ARE TO BE REPAINTED AS SCHEDULED.
14. SAMPLES OF ALL FINISHES ARE TO BE PROVIDED VIA SUBMITTAL PROCESS TO ARCHITECT FOR VERIFICATION PRIOR TO PROCUREMENT AND INSTALLATION.
15. EXISTING WALL BASE IN ALL WORK AREAS IS TO BE REMOVED IN ITS ENTIRETY. INSTALL NEW WALL BASE AS SCHEDULED. PATCH AND REPAIR WALL AS REQUIRED TO RECEIVE NEW FINISH.

1 PER ADDENDUM AD-03, ROOMS LABELED AS "NOT PLACED" HAVE BEEN REMOVED FROM 'ROOM FINISH SCHEDULE 2'.

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
1740 Airport Boulevard, Suite 12
Wilmington, NC 28405

THE WILSON GROUP ARCHITECTS REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 51140 NORTH CAROLINA CHARLOTTE, N.C.

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SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

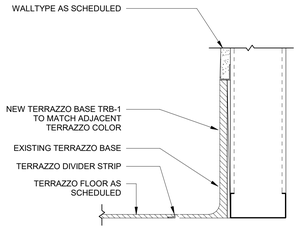
1 7/30/2019 AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

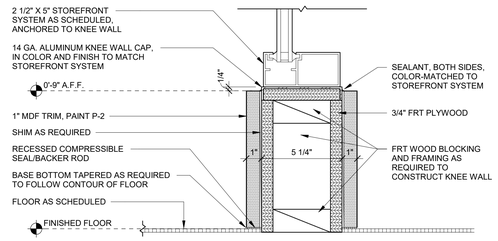
FINISH SCHEDULES

SHEET NUMBER

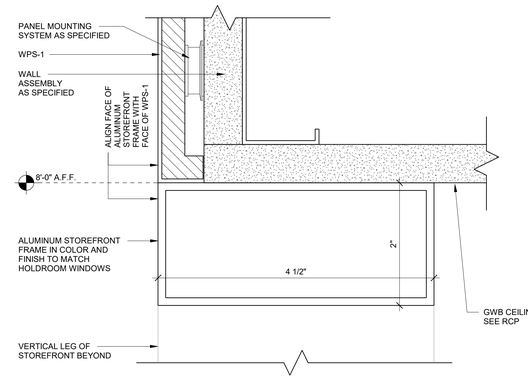
A-651



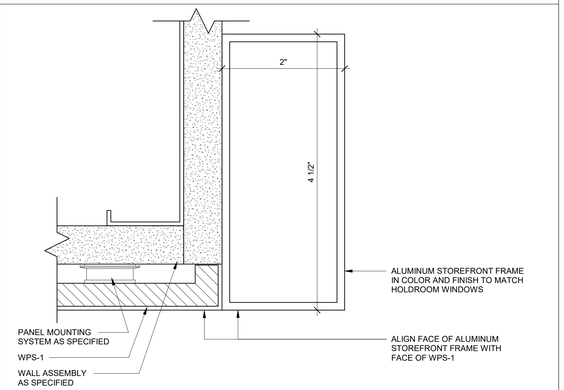
J DETAIL "J" - SECTION @ TRB-1 AND GWB
3" = 1'-0"



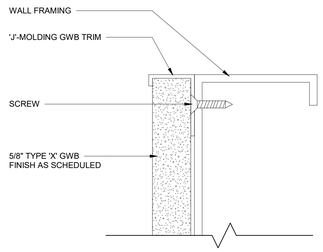
K DETAIL "K" - SECTION @ STOREFRONT BASE
3" = 1'-0"



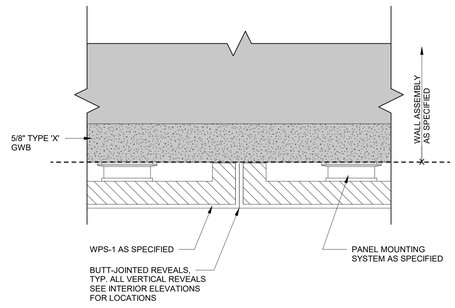
L DETAIL "L" - GATE WALL PORTAL (HORIZONTAL)
12" = 1'-0"



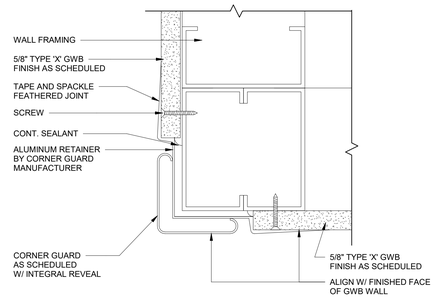
M DETAIL "M" - GATE WALL PORTAL (VERTICAL)
12" = 1'-0"



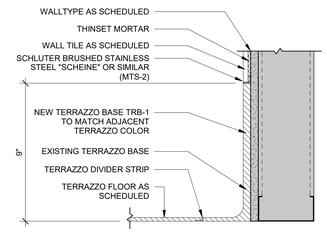
E DETAIL "E" - GWB TERMINATION
12" = 1'-0"



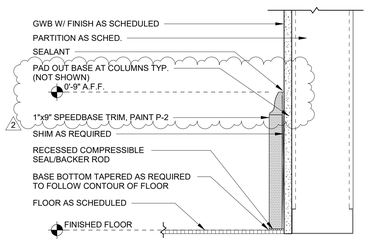
F DETAIL "F" - VERTICAL REVEAL AT WPS-1
12" = 1'-0"



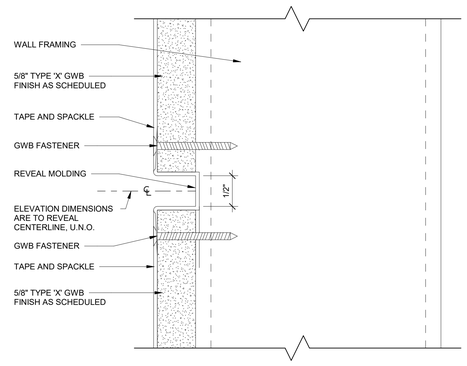
G DETAIL "G" - CORNER GUARD
6" = 1'-0"



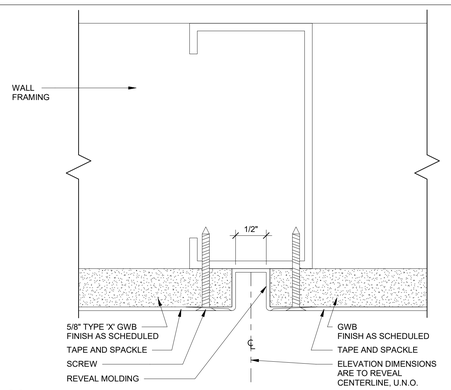
H DETAIL "H" - SECTION @ TRB-1 AND TILE
3" = 1'-0"



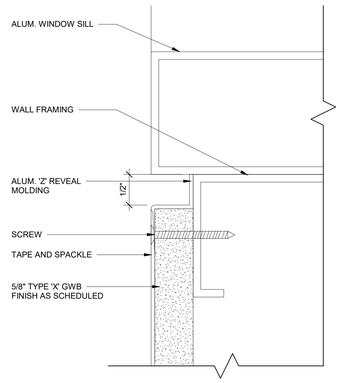
A DETAIL "A" - SECTION @ WB-1
3" = 1'-0"



B DETAIL "B" - GWB REVEAL (HORIZONTAL)
12" = 1'-0"



C DETAIL "C" - GWB REVEAL (VERTICAL)
12" = 1'-0"



D DETAIL "D" - GWB REVEAL AT WINDOW
12" = 1'-0"

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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TRAVIS WALKER PARRILL REGISTERED ARCHITECT 9272 NORTH CAROLINA CHARLOTTE, N.C.

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AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

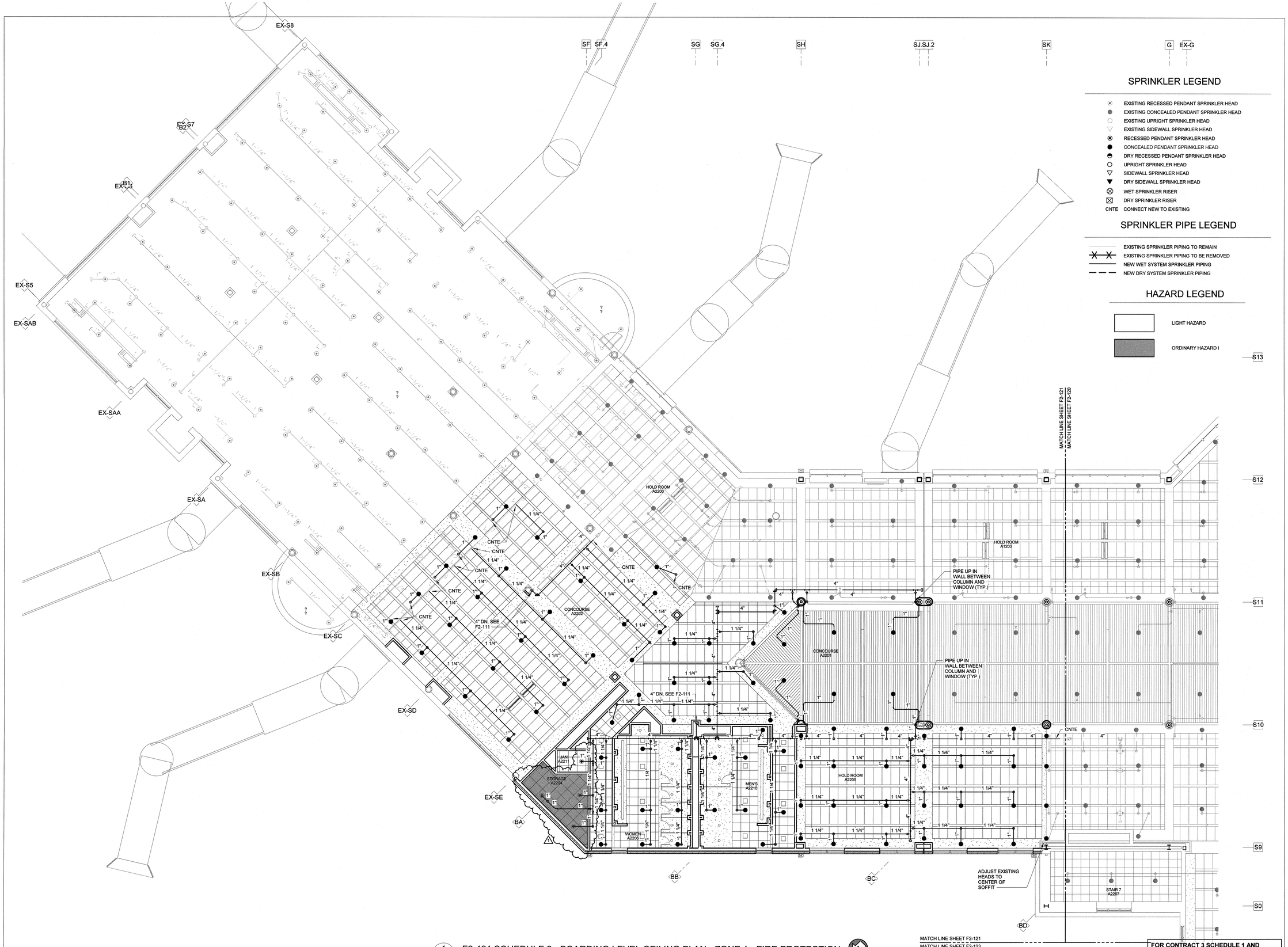
1	7/12/2019	AD-01
2	7/30/2019	AD-03

DATE 6/28/2019
PROJECT NUMBER 9202-000
SHEET TITLE

WALL BASE, WALL, AND PANEL REVEAL DETAILS

SHEET NUMBER

A-654



SPRINKLER LEGEND

- EXISTING RECESSED PENDANT SPRINKLER HEAD
- EXISTING CONCEALED PENDANT SPRINKLER HEAD
- EXISTING UPRIGHT SPRINKLER HEAD
- EXISTING SIDEWALL SPRINKLER HEAD
- RECESSED PENDANT SPRINKLER HEAD
- CONCEALED PENDANT SPRINKLER HEAD
- DRY RECESSED PENDANT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- DRY SIDEWALL SPRINKLER HEAD
- WET SPRINKLER RISER
- DRY SPRINKLER RISER
- CNTE CONNECT NEW TO EXISTING

SPRINKLER PIPE LEGEND

- EXISTING SPRINKLER PIPING TO REMAIN
- EXISTING SPRINKLER PIPING TO BE REMOVED
- NEW WET SYSTEM SPRINKLER PIPING
- NEW DRY SYSTEM SPRINKLER PIPING

HAZARD LEGEND

- LIGHT HAZARD
- ORDINARY HAZARD I

1 / F2-121 F2-121 SCHEDULE 2 - BOARDING LEVEL CEILING PLAN - ZONE 1 - FIRE PROTECTION
SCALE: 1/8" = 1'-0"

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:
- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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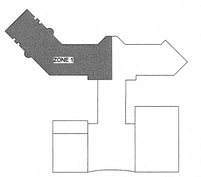

KEY PLAN

REVISIONS

1	7/26/19	AD-03

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - BOARDING LEVEL PLAN ZONE 1 FIRE PROTECTION

SHEET NUMBER

F2-121

NOTE: SEE MECHANICAL DRAWINGS TO VERIFY MECHANICAL EQUIPMENT IDENTIFICATION AND LOCATIONS

MATCH LINE SHEET P1-111
MATCH LINE SHEET P1-112

6" RDL SLOPED @ 1/8"/FT
4" RDL UP TO DOWNSPOUT BOOT (2650 FT2, 118 GPM)
ECO
8" RDL SLOPED @ 1/8"/FT
COORDINATE WITH FIRE LOOP BY DIVISION 33. SEE SITE PLANS.
APPROXIMATE INV. OF RDL 28" BFF
8" RDL SLOPE @ 1/8"/FT
6" RDL SLOPED @ 1/8"/FT
4" RDL UP TO DOWNSPOUT BOOT (2380 FT2, 106 GPM)
3" C UP TO 4" AFG FOR CONNECTION TO PC AIR CONDENSATE PIPE PROVIDED BY OTHERS. PROVIDE REDUCER AS NECESSARY.
EXTEND 8" RDL TO MANHOLE BY SITE CONTRACTOR. INV. = 90" BFF (20.667') (9,690 FT², 429 GPM) SEE SITE PLANS.
4" RDL UP TO DOWNSPOUT BOOT (2370 FT², 105 GPM)
RDL TOTALS: 44,860 FT², 1,983 GPM
EXTEND 8" RDL TO MANHOLE BY SITE CONTRACTOR. INV. = 90" BFF (20.667') (10,520 FT², 465 GPM) SEE SITE PLANS.
3" RDL CONDENSATE RELIEF BASIN
3" C
EXTEND 12" RDL TO MANHOLE BY SITE CONTRACTOR. INV. = 98" BFF (20.0') (23,600 FT², 1,044 GPM) SEE SITE PLANS.
12" RDL SLOPED @ 1/8"/FT
CONNECT 3" C TO CONDENSATE PROVIDED BY MECHANICAL CONTRACTOR 1'-0" AFG
CAP FOR FUTURE (ASSUMING 7200 FT², 319 GPM) APPROX INV. 79" BFF
CONDENSATE RELIEF BASIN
8" RDL SLOPED @ 1/8"/FT
4" RDL SLOPED @ 1/8"/FT
4" RDL UP TO DOWNSPOUT BOOT (1180 FT², 53 GPM)
4" RDL SLOPED @ 1/4"/FT
4" RDL UP TO DOWNSPOUT BOOT (2140 FT², 95 GPM)
CONNECT 3" C TO CONDENSATE PROVIDED BY MECHANICAL CONTRACTOR 1'-0" AFG
4"W & 3/4" CW UP TO PLANTER. SEE P1-122
2" CIRCUIT VENT BFF
2" G CAPPED FOR FUTURE
FUTURE BOILER
CHILLER #3
CHILLER #4
FUTURE CHILLER
BOILER #5 (2500 MBH)
BOILER #4 (2500 MBH)
BOILER #3 (2500 MBH)
2-1/2" MAKE UP WATER. SEE MECHANICAL.
RPZ
3/4" CW DN TO HB-1 (TYP.)
3" CIRCUIT VENT BFF
4" GW & 4" W UP W/ WCO @ BASE SEE P1-P122.
AHU#11
AHU#7
AHU#10
AHU#8
AHU#9
OFFSET PIPING TO ACCOMODATE FOOTINGS AS REQUIRED
3" V UP SEE P1-122 FOR CONTINUATION
4" G UP SEE P1-122 FOR CONTINUATION
4" GW & 4"W UP TO TENANT SPACE ABOVE. PROVIDE CO AT BASE. SEE DRAWING P1-122.
SUMP PUMP ALARM PANEL
PERFORATED FOUNDATION DRAIN LINE INV = 68"
SUMP PUMP
CONCESSION ENTRANCE A1117
ELEV. #6 A1116
4" W UP SEE P1-123 FOR CONTINUATION
3" CW BFF
1-1/4" CW
WCO
1-1/4" CW ABOVE 3" CW BFF
CAPPED FOR FUTURE 1" CW
4" GW UP SEE P1-123 FOR CONTINUATION
3"V UP, SEE P1-123
4" RDL UP TO DOWNSPOUT BOOT (3830 FT², 170 GPM)
2,500 GALLON GREASE INTERCEPTOR
3" V BELOW GROUND
8" RDL SLOPED @ 1/8"/FT
6" RDL SLOPED @ 1/8"/FT
3" G UP SEE P1-122 FOR CONTINUATION 4" W UP. SEE P1-122 FOR CONTINUATION PROVIDE CLEANOUT AT BASE OF RISER.
3" CW UP SEE P1-122 FOR CONTINUATION
3" CW & 3" G CAPPED FOR FUTURE TENANT
INSTALL FCO AS CLOSE TO FOOTING AS POSSIBLE
1" CW
1 1/4" CW
4" GW
4" W
3" C UP TO 4" AFG FOR CONNECTION TO PC AIR CONDENSATE PIPE PROVIDED BY OTHERS. PROVIDE REDUCER AS NECESSARY.
CONNECT 3" C TO CONDENSATE PROVIDED BY MECHANICAL CONTRACTOR 1'-0" AFG
CONDENSATE RELIEF BASIN
3" RDL
4" RDL SLOPED @ 1/4"/FT
CAP FOR FUTURE (ASSUMING 7200 FT², 319 GPM) APPROX. INV 57" BFF
4" RDL UP TO DOWNSPOUT BOOT (1970 FT², 88 GPM)
8" RDL SLOPED @ 1/8"/FT
APPROX INV. = 58" BFF
APPROX INV. = 38" BFF
POTABLE WATER CABINET SHALL BE DESIGNED FOR MODERATE CLIMATES THAT EXPERIENCE OCCASIONAL SUB-FREEZING TEMPERATURES. TYPE 304 STAINLESS STEEL, 16 GAUGE MINIMUM, NRTL LISTED AND MARKED, NO EXPOSED HEATING ELEMENTS, INTERNAL PIPING SHALL BE SUITABLE FOR POTABLE WATER SERVICE. BASIS OF DESIGN IS SEMLAR INDUSTRIES' S1 1500. APPROVED EQUALS: GNY OR PHOENIX METAL PRODUCTS, INC.
EXTEND 10" RDL FROM CONCRETE JUNCTION BOX BY SITE CONTRACTOR. INV. = 84" BFF (21.167') (18,290 FT², 809 GPM) SEE SITE PLANS.
EXTEND 10" RDL TO CONCRETE JUNCTION BOX BY SITE CONTRACTOR. INV. = 78" BFF (21.67') (12,050 FT², 533 GPM) SEE SITE PLANS.
EXTEND 8" RDL TO CONCRETE JUNCTION BOX BY SITE CONTRACTOR. INV. = 78" BFF (21.67') (6,240 FT², 276 GPM) SEE SITE PLANS.
4" RDL UP TO DOWNSPOUT BOOT (2190 FT², 97 GPM)
4" RDL UP TO DOWNSPOUT BOOT (690 FT², 31 GPM)
10" RDL SLOPED @ 1/8"/FT
4" RDL SLOPED @ 1/4"/FT
8" RDL SLOPED @ 1/8"/FT
ELECTRICAL A1110
MECHANICAL A1111
MECHANICAL A1104
MECHANICAL A1105
MECHANICAL A1113
AIRLINE A1120
IT A1112
EMR A1108
VESTIBULE A1115
CORRIDOR A1109
STAIR 7 A1107
STAIR 6 A1106
STORAGE A1132
SARA A1135
FUTURE L PUMP
FUTURE PUMP
PUMP
FD-2
HD-1
HB-1
HB-3
FCO
ECO
WCO
FS-1
RPZ
REG #5
REG #4
REG #3
2" G
3" G
5" G
3" V BFF
3" CW BFF
4" GW
1" CW
1 1/4" CW
3" C
3" V
4" W
2 1/2" CW
12" RDL SLOPED @ 1/8"/FT
10" RDL SLOPED @ 1/8"/FT
6" RDL SLOPED @ 1/8"/FT
8" RDL SLOPED @ 1/8"/FT
MATCH LINE SHEET P1-112
MATCH LINE SHEET P1-113

1 P1-112 SCHEDULE 1 - RAMP LEVEL FLOOR PLAN - ZONE 2 - PLUMBING
SCALE: 1/8" = 1'-0"

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:
- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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JOB # 19005

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CHEATHAM & ASSOC.

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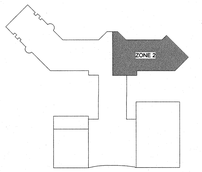
SIGNAGE & WAYFINDING
TAKEFORM



KEY PLAN

REVISIONS

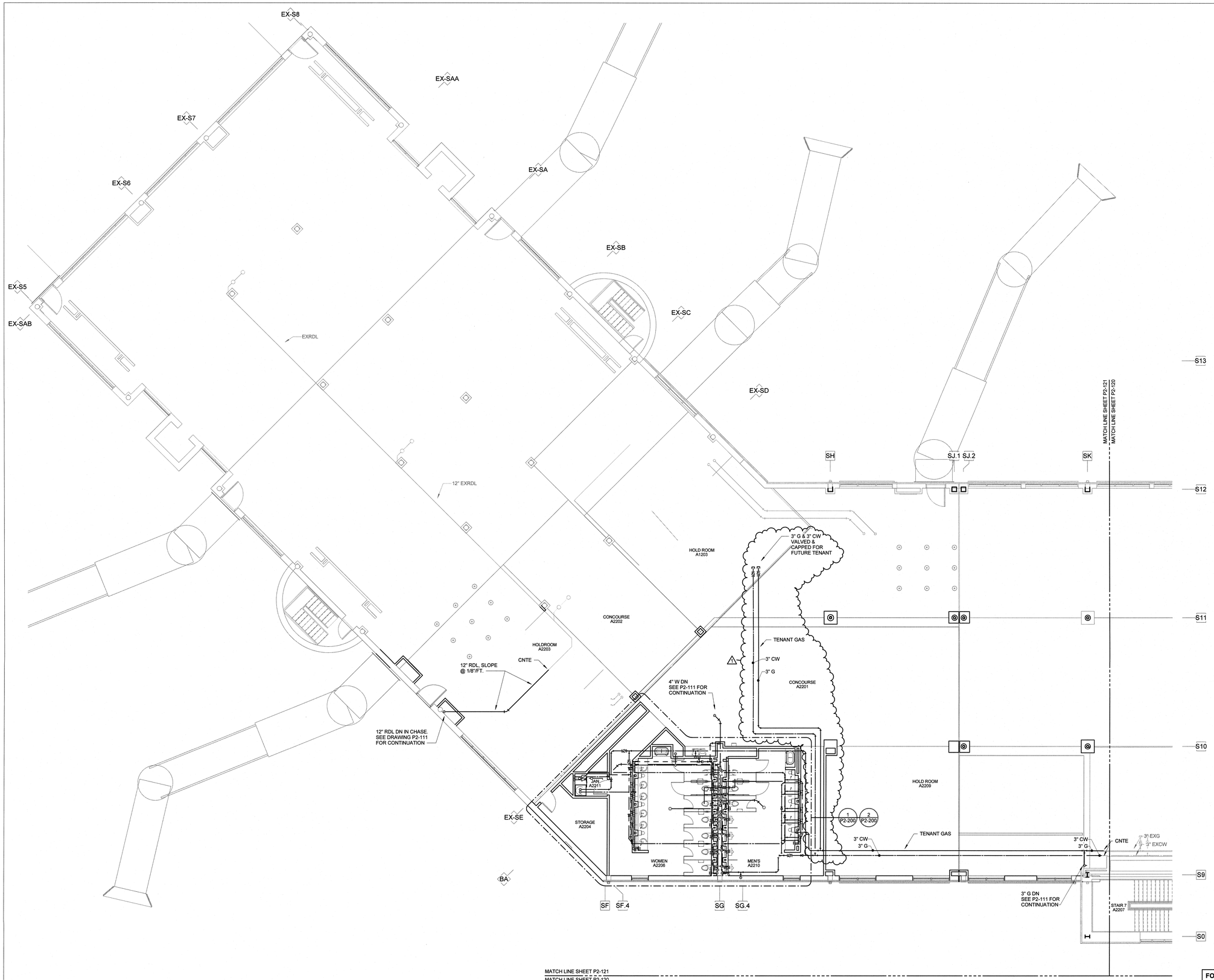
1	7/12/19	AD-01
2	7/26/19	AD-03

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - RAMP LEVEL PLAN ZONE 2 PLUMBING

SHEET NUMBER

P1-112



1 P2-121 SCHEDULE 2 - BOARDING LEVEL FLOOR PLAN - ZONE 1 - PLUMBING
SCALE: 1/8" = 1'-0"

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:
- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

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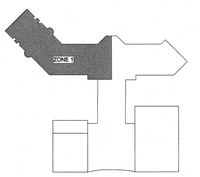


KEY PLAN

REVISIONS

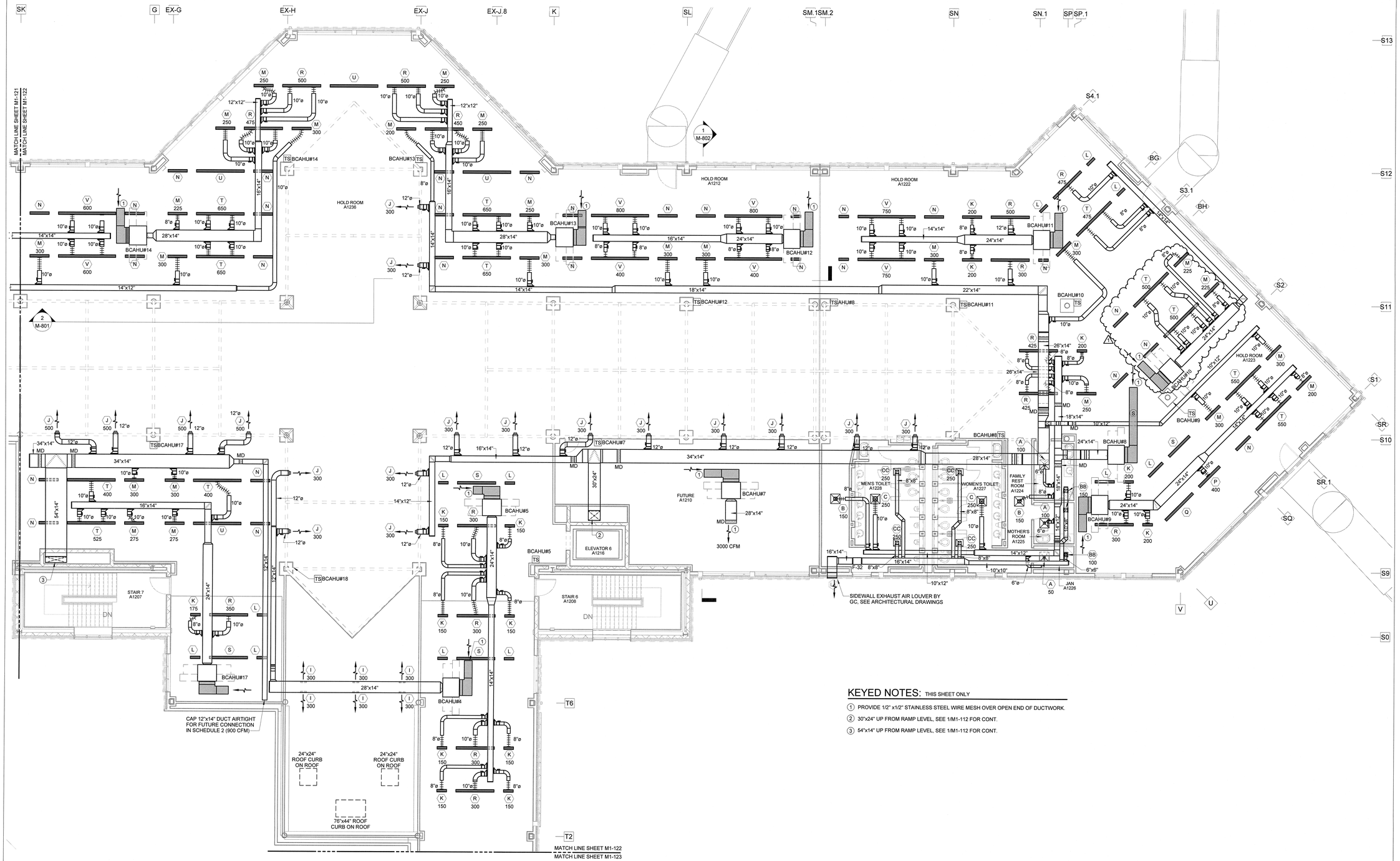
1 7/26/19 AD-03

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - BOARDING LEVEL FLOOR PLAN ZONE 1 PLUMBING

SHEET NUMBER

P2-121



KEYED NOTES: THIS SHEET ONLY

1. PROVIDE 1/2" x1/2" STAINLESS STEEL WIRE MESH OVER OPEN END OF DUCTWORK.
2. 30"x24" UP FROM RAMP LEVEL, SEE 1/M1-112 FOR CONT.
3. 54"x14" UP FROM RAMP LEVEL, SEE 1/M1-112 FOR CONT.

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

1 / M1-122 SCHEDULE 1 - BOARDING LEVEL MECHANICAL PLAN - ZONE 2
SCALE: 1/8" = 1'-0"

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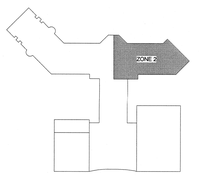


KEY PLAN

REVISIONS

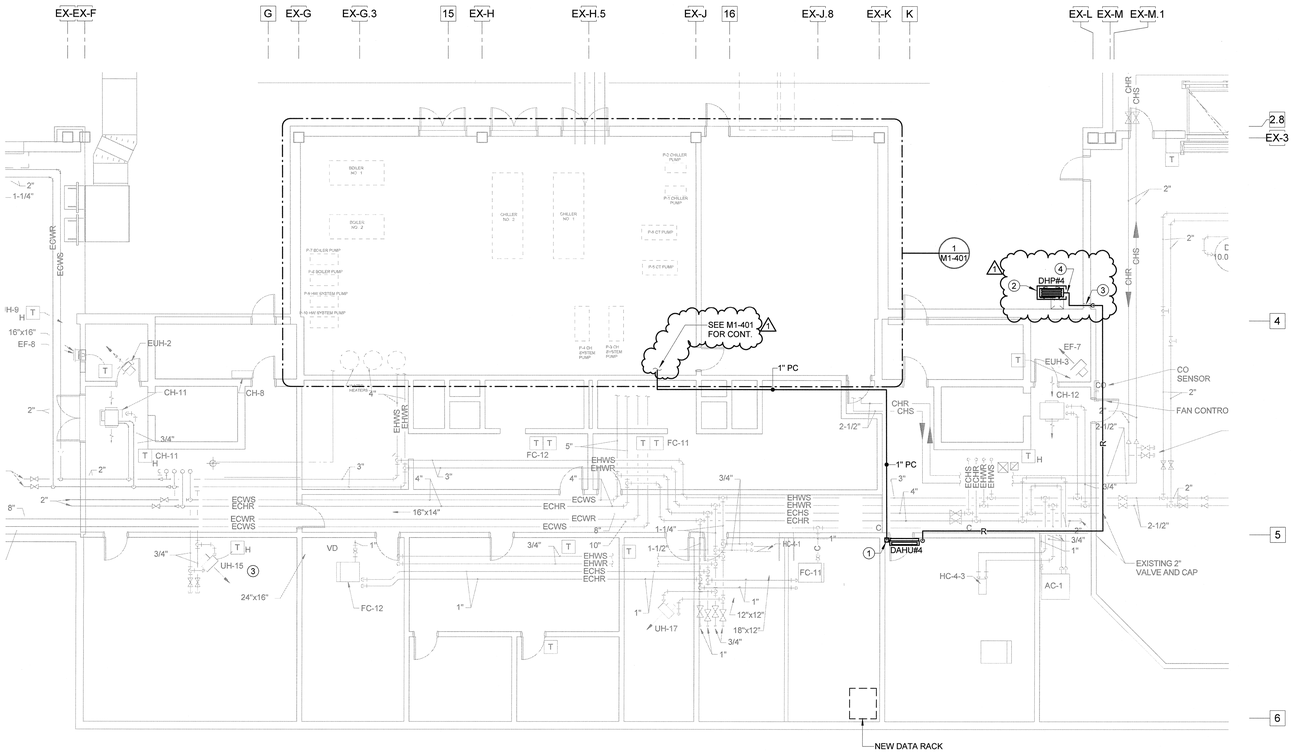
1 7/26/19 AD-03

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - BOARDING LEVEL MECHANICAL PLAN - ZONE 2

SHEET NUMBER

M1-122



1 / M1-215 SCHEDULE 1 - RAMP LEVEL MECHANICAL PIPING PLAN - ZONE 5
SCALE: 1/8" = 1'-0"

KEYED NOTES: THIS SHEET ONLY

1. PROVIDE CONDENSATE PUMP FOR DAHU#4.
2. 4" THICK CONC. PAD, PAINT PAD OSHA APPROVED YELLOW.
3. SEAL WALL PENETRATION WEATHERTIGHT.
4. SUPPORT REFRIGERANT PIPING AT EDGE OF CONCRETE PAD.

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

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- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

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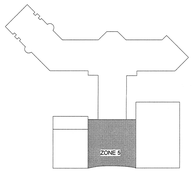


KEY PLAN

REVISIONS

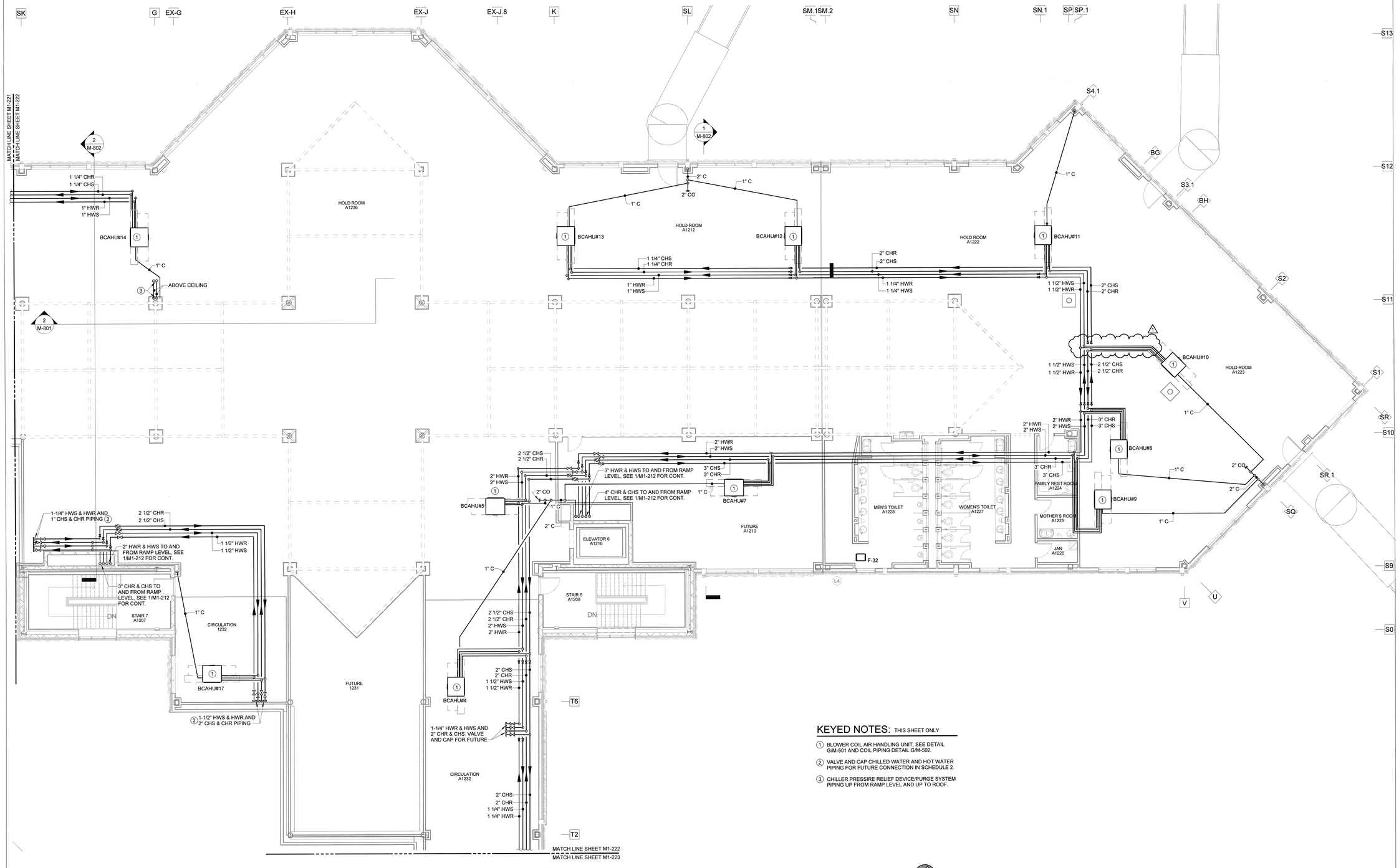
1	7/26/19	AD-03

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - RAMP LEVEL MECHANICAL PIPING PLAN - ZONE 5

SHEET NUMBER

M1-215



KEYED NOTES: THIS SHEET ONLY

1. BLOWER COIL AIR HANDLING UNIT, SEE DETAIL G/M-501 AND COIL PIPING DETAIL G/M-502.
2. VALVE AND CAP CHILLED WATER AND HOT WATER PIPING FOR FUTURE CONNECTION IN SCHEDULE 2.
3. CHILLER PRESSIRE RELIEF DEVICE/PURGE SYSTEM PIPING UP FROM RAMP LEVEL AND UP TO ROOF.

1 / M1-222 SCHEDULE 1 - BOARDING LEVEL MECHANICAL PIPING PLAN - ZONE 2

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

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

ILM

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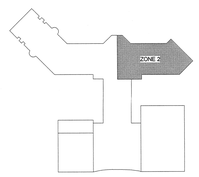


KEY PLAN

REVISIONS

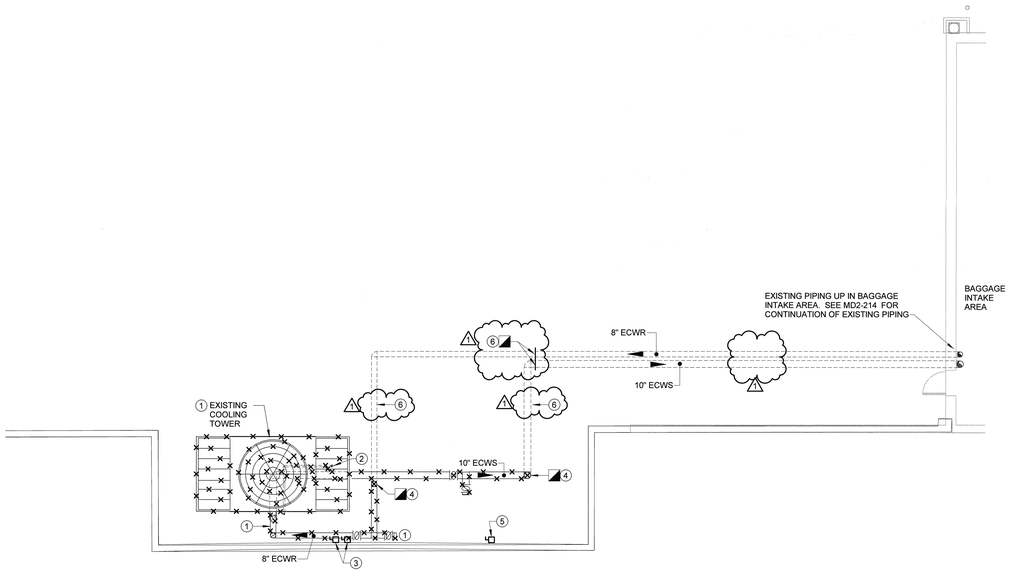
1 7/26/19 AD-03

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

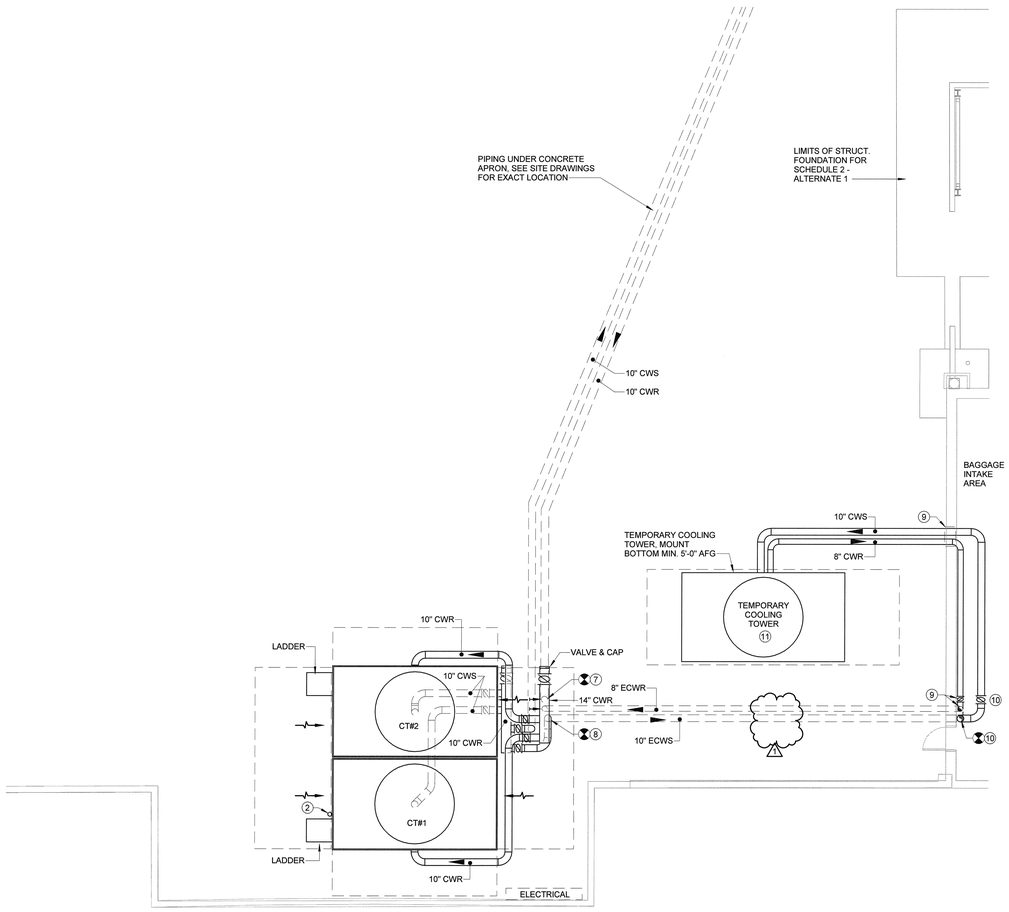
SCHEDULE 1 - BOARDING LEVEL MECHANICAL PIPING PLAN - ZONE 2

SHEET NUMBER

M1-222



1 M1-402 SCHEDULE 1 - EXISTING COOLING TOWER
SCALE: 1/8" = 1'-0"



2 M1-402 SCHEDULE 1 - NEW COOLING TOWERS
SCALE: 1/8" = 1'-0"

SCHEDULE 1

1. MAKE TEMPORARY CONDENSER WATER SUPPLY AND RETURN CONNECTIONS IN INBOUND MAKE UP A2I44.
2. CONNECT TEMPORARY COOLING TOWER TO PROVIDE CONDENSER WATER (1100 GPM, 95°F EWT, 85°F LWT, @ 80°F WB) FOR EXISTING CHILLED WATER PLANT - MECHANICAL A1104.
3. DEMOLITION EXISTING COOLING TOWER, STRUCTURE, CONDENSER WATER PIPING, ETC. COMPLETE TO POINTS INDICATED ON DRAWINGS.
4. COORDINATE SHUTDOWN OF EXISTING CHILLED WATER PLANT WITH OWNER SO AS TO MINIMIZE NO COOLING IN THE EXISTING BUILDING.
5. INSTALL NEW COOLING TOWERS CT-1 AND CT-2 AND CONDENSER WATER PIPING. ONCE INSTALLATION AND TESTING OF CT-1 AND CT-2 ARE COMPLETE, DISCONNECT AND REMOVE TEMPORARY COOLING TOWER AND TEMPORARY CONDENSER WATER PIPING.

KEYED NOTES: THIS SHEET ONLY

1. REMOVE COOLING TOWER, SUPPORTS, PIPING, ELECTRICAL BACK TO SOURCE. AFTER TEMPORARY COOLING TOWER IS FUNCTIONAL AND CONNECTED TO EXISTING CONDENSER WATER PIPING.
2. HUB DRAIN TO REMAIN AND BE REUSED.
3. REMOVE EXISTING COOLING TOWER ELECTRICAL DISCONNECTS BACK TO SOURCE.
4. CAP EXISTING PIPING ABOVE GRADE.
5. REMOVE EXISTING ABANDONED ELECTRICAL DISCONNECT AND ELECTRICAL BACK TO SOURCE.
6. EXISTING CONDENSER WATER PIPING TO BE ABANDONED IN PLACE BELOW GRADE.
7. INTERCEPT EXISTING 8" ECWR PIPE BELOW GRADE AND CONNECT NEW 8" CWR TO EXISTING. FIELD VERIFY EXACT SIZE AND LOCATION.
8. INTERCEPT EXISTING 10" ECWS PIPE BELOW GRADE AND CONNECT NEW 10" CWS TO EXISTING. FIELD VERIFY EXACT SIZE AND LOCATION.
9. TEMPORARY LOCATION OF PIPING THROUGH WALL AT LOCATION OF NEW DOOR. TEMPORARY CONNECT 10" CWS BELOW EXISTING BUTTERFLY VALVE. REMOVE CHECK VALVE AND INSTALL IN TEMPORARY PIPING. AFTER CT-1 AND CT-2 ARE INSTALLED AND READY FOR OPERATION, DISCONNECT TEMPORARY TOWER AND REINSTALL CHECK VALVE.
10. TEMPORARY CONNECT 8" CWS TO EXISTING, INTERCEPT EXISTING PIPING AND ADD NEW BUTTERFLY VALVE IN RISE AND ON TEMPORARY PIPING SIDE. AFTER CT-1 AND CT-2 ARE INSTALLED AND READY FOR OPERATION, DISCONNECT TEMPORARY TOWER AND TEMPORARY PIPING BACK TO BUTTERFLY VALVE. CAP VALVE TO REMAIN.
11. TEMPORARY COOLING TOWER TO PROVIDE CONDENSER WATER (1100 GPM, 95°F EWT, 85°F LWT, @ 80°F WB) FOR EXISTING CHILLED WATER PLANT - MECHANICAL A1104.

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:
- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
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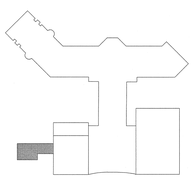


KEY PLAN

REVISIONS

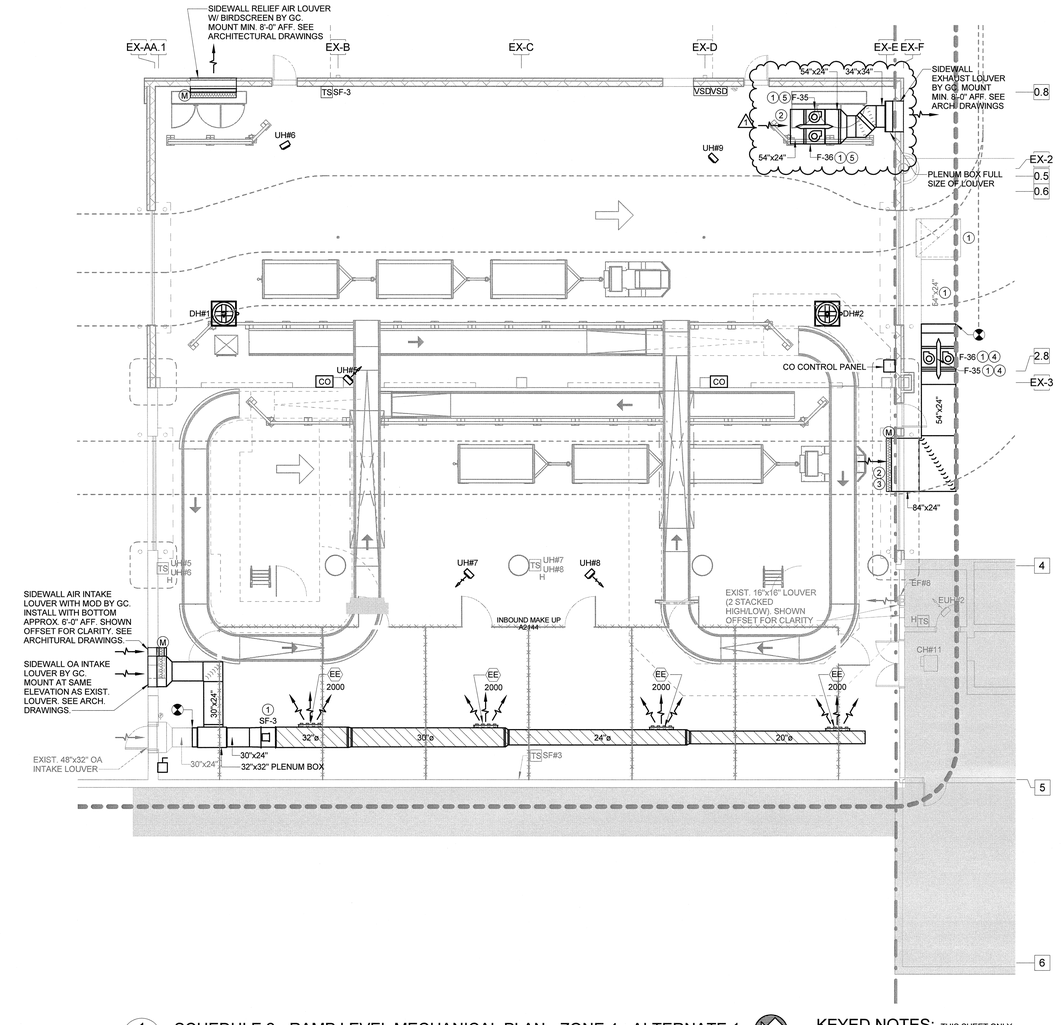
1	7/26/19	AD-03

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - ENLARGED COOLING TOWERS

SHEET NUMBER

M1-402



1 M2-114 SCHEDULE 2 - RAMP LEVEL MECHANICAL PLAN - ZONE 4 - ALTERNATE 1

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

KEYED NOTES: THIS SHEET ONLY

1. PROVIDE NEOPRENE VIBRATION ISOLATION ON ALL FAN SUPPORT HANGERS.
2. PROVIDE 1/2"x1/2" WIRE MESH OVER OPEN END OF DUCTWORK.
3. INSTALL DUCTWORK IN EXISTING OPENING. TOP OF DUCTWORK SHALL BE INSTALLED AT THE TOP OF EXISTING OPENING. GENERAL CONTRACTOR TO FILL IN OPENING BELOW DUCTWORK TO MATCH EXISTING.
4. FOR ENABLING PHASE - MECHANICAL CONTRACTOR SHALL TEMPORARILY INSTALL FANS F-35 & F-36 IN LOCATION INDICATED DURING SCHEDULE 2 ALTERNATE BID 1 WORK. ONCE WORK HAS BEEN COMPLETED, MECHANICAL CONTRACTOR SHALL RELOCATE FANS TO FINAL POSITION INDICATED AND NOTED IN KEYED NOTE 5. SUPPORT FANS FROM STRUCTURE SIMILAR TO FAN INSTALLATION IN CONTRACT 1.
5. FINAL LOCATION OF FANS F-35 & F-36.

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:
- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
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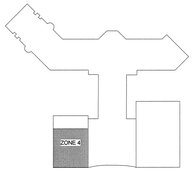

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1 7/26/19 AD-03

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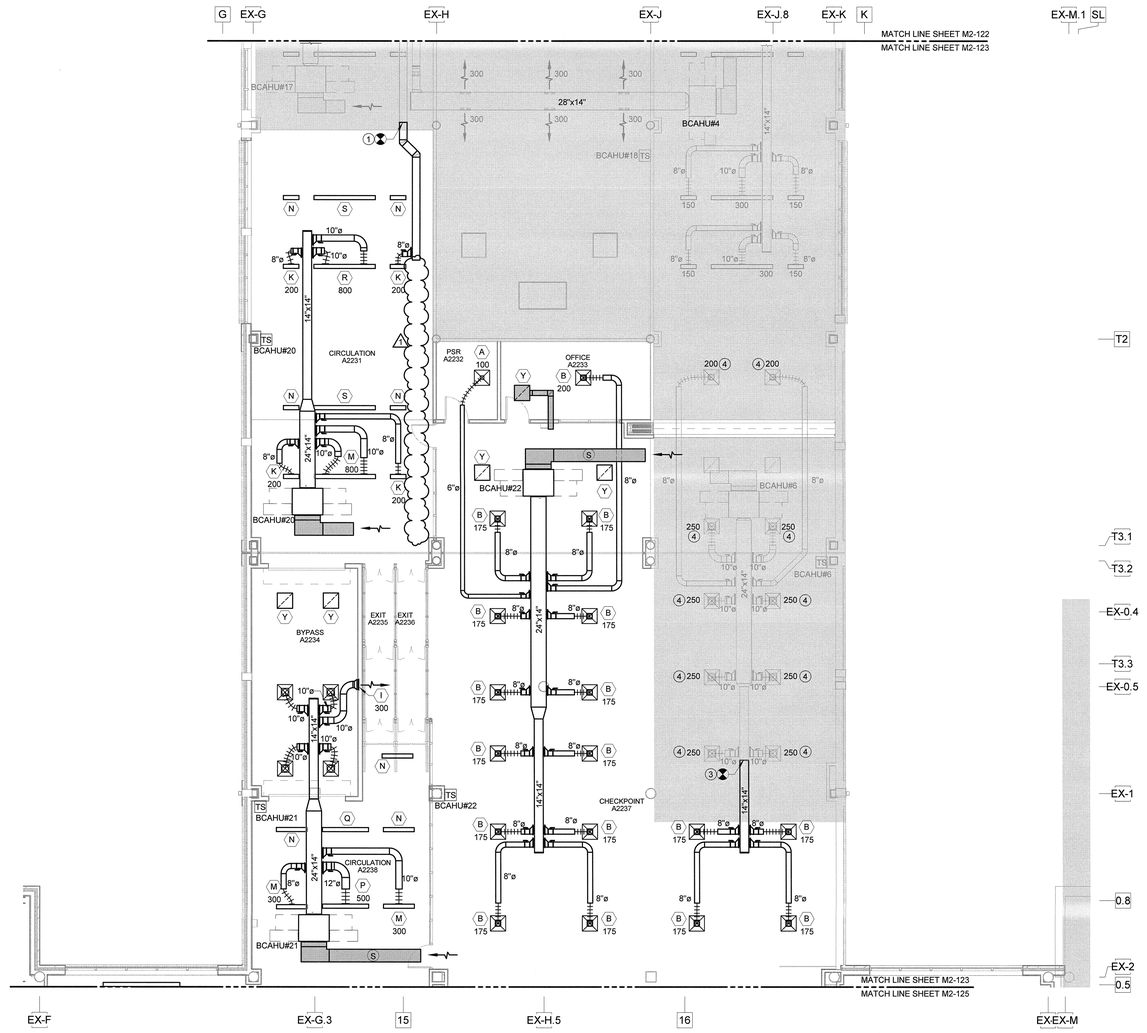
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - RAMP LEVEL MECHANICAL PLAN - ZONE 4 - ALTERNATE 1

SHEET NUMBER

M2-114



1 / M2-123 SCHEDULE 2 - TICKET LEVEL MECHANICAL PLAN - ZONE 3
SCALE: 1/8" = 1'-0"

KEYED NOTES: THIS SHEET ONLY

1. CONNECT NEW OUTSIDE AIR DUCTOWORK TO EXISTING DUCTWORK AT POINT INDICATED.
2. CAP UNUSED SUPPLY AIR RUNOUT AIRTRIGHT AND INSULATE AS SPECIFIED.
3. CONNECT AND EXTEND DUCTWORK AS SHOWN.
4. RETAB AIRFLOWS FOR EXISTING DIFFUSERS FOR BCAHU#6.

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:
- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
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- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

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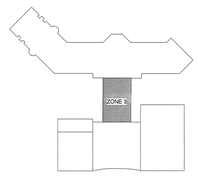

KEY PLAN

REVISIONS

1 7/26/19 AD-03

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - TICKET LEVEL MECHANICAL PLAN - ZONE 3

SHEET NUMBER

M2-123

AIR HANDLING UNIT SCHEDULE

SYMBOL	UNIT TYPE	AIR QUANTITY			EXT SP "H20		ELECTRICAL (3)				PREHEAT POSITION COIL (4)				COOLING COIL (6)							REHEAT POSITION COIL (4)				CONTROL VALVES	BASIS OF DESIGN	REMARKS
		SUPPLY CFM	OUTSIDE AIR CFM	RELIEF CFM	SUPPLY (2)	RELIEF (2)	SUPPLY FAN HP	VOLTAGE & PHASE	RELIEF FAN HP	VOLTAGE & PHASE	EAT °F	GTH-MBH	GPM	PIPE SIZE	EDB °F	EWB °F	LDB °F	LWB °F	GTH-MBH	GPM (5)	PIPE SIZE	EAT °F	GTH- MBH	GPM	PIPE SIZE			
AHU#1	CVMZ	31,650	4800 (1)	(12)	1.25	(12)	30	460V-3Ø	N/A	N/A	N/A	N/A	N/A	N/A	81.0	66.5	56.0	54.2	1182.3	235 (5A)	3"	61.0	678.9	67.5 (4A)(11)	2"	3-WAY	EXISTING - CARRIER 39EB57 (1986)	(7) CH ONLY
	Zone 1 (DD)	4256																										TICKETING COUNTER AREA
	Zone 2	NOT USED																										UPPER LOBBY
	Zone 3	4147																										TICKETING WAITING
	Zone 4	5770																										TICKITING ENTRY AND LOBBY
	Zone 5	10212																										ATRIUM LOBBY
AHU#2	CVMZ	25,500	4250 (1)	(12)	1.25	(12)	30	460V-3Ø	N/A	N/A	N/A	N/A	N/A	N/A	81.0	66.5	56.0	54.2	951.7	190 (5A)	3"	61.0	486.9	48.5 (4A)(11)	2"	3-WAY	EXISTING - CARRIER 39EB57 (1986)	(7) CH ONLY
	Zone 1 (DD)	1270																										EXISTING GIFT SHOP AREA
	Zone 2	3000																										SCREENING AREA
	Zone 3	2550																										BAGGAGE CLAIM EXTERIOR
	Zone 4	5250																										BAGGAGE CLAIM INTERIOR
	Zone 5	5000																										BAGGAGE CLAIM ENTRY AND LOBBY
	Zone 6 (DD)	4875																										2ND FLOOR ADMIN AREA
	Zone 7	1200																										CAR RENTAL AND OFFICES
	Zone 8	3550																										MAIAN ENTRY AND RESTROOMS
AHU#3	CVMZ	9800	3500 (1)	(15)(16)	1.65	(15)	[2] 7-1/2	460V-3Ø	N/A	N/A	N/A	N/A	N/A	N/A	81.4	68.9	53.0	52.9	500	83.5	3"	-	-	-	-	2-WAY (CH)		(7)(17) (18) CH ONLY
	Zone 1	2500																				53.6	115.6 (14)	8.0	1-1/4"	3-WAY		NE HOLDING ROOM
	Zone 2	2100																				53.6	100.0 (14)	7.0	1"	3-WAY		SW HOLDING ROOM
	Zone 3 (DD)	2200																				-	- (13)	-	-	3-WAY		RAMP LEVEL OFFICE AREA
	Zone 4	3000																				53.6	140.0 (14)	9.5	1-1/4"	3-WAY		MIDDLE HOLDING ROOM
AHU#4	VTCV	2700	450 (1)	N/A	1.00	N/A	3	460V-3Ø	N/A	N/A	N/A	N/A	N/A	N/A	78.0	65.9	53.0	52.9	107.5	18	1-1/2"	62.3	100.0	7.0	1"	3-WAY		(17) FINANCE OFFICES - RAMP LEVEL
AHU#5	VTCV	4000	375 (1)	N/A	1.80	N/A	7-1/2	460V-3Ø	N/A	N/A	N/A	N/A	N/A	N/A	80.5	64.5	52.8	52.5	141.4	28.0 (5A)	2"	60.0	167.0	17.0 (4A)	1-1/2"	3-WAY	EXISTING - YORK AP-80 (2000)	HOLDING ROOM
AHU#6	VTCV	4000	375 (1)	N/A	1.80	N/A	7-1/2	460V-3Ø	N/A	N/A	N/A	N/A	N/A	N/A	80.5	54.6	52.8	52.5	141.4	28.0 (5A)	2"	60.0	167.0	17.0 (4A)	1-1/2"	2-WAY	EXISTING - YORK AP-80 (2000)	HOLDING ROOM
AHU#7	DOAS	6500	6500	N/A	1.25	N/A	[2] 7-1/2	460V-3Ø	N/A	N/A	24.0	220.0	15.0	1-1/4"	93.0	78.0	52.0	51.9	530	88.5	3"	50.0	317.5	21.5	1-1/2"	2-WAY	TRANE CSAA014	(7)(17) (18)
AHU#8	DOAS	6500	6500	N/A	1.25	N/A	[2] 7-1/2	460V-3Ø	N/A	N/A	24.0	220.0	15.0	1-1/4"	93.0	78.0	52.0	51.9	530	88.5	3"	50.0	317.5	21.5	1-1/2"	2-WAY	TRANE CSAA014	(17) (18)
AHU#9	VAV	2600	275 (1)	(16)	1.80	0.50	3	460V-3Ø	1-1/2	460V-3Ø	24.0	100.0	6.75	1"	76.9	64.8	52.0	51.9	95	16	1-1/2"	50.0	125.0	8.5	1-1/4"	2-WAY	TRANE CSAA06	(17) (18)
AHU#10	VAV	4300	450 (1)	(16)	2.0	0.50	[2] 3	460V-3Ø	[2] 1-1/2	460V-3Ø	24.0	162.5	11.0	1-1/4"	76.9	64.8	52.0	51.9	160	27	2"	50.0	210.0	14.0	1-1/4"	3-WAY	TRANE CSAA08	(17) (18)
AHU#11	VAV	3300	350 (1)	(16)	1.8	0.50	5	460V-3Ø	1-1/2	460V-3Ø	24.0	125.0	8.5	1-1/4"	76.9	64.9	52.0	51.9	120	20	1-1/2"	50.0	160.0	11.0	1-1/4"	3-WAY	TRANE CSAA08	(17) (18)

(1) MINIMUM OUTSIDE AIR CFM'S INDICATED WITH 0-100% OA ECONOMIZER, WITH RELIEF FAN WHERE INDICATED.

(2) EXT. S.P. INCLUDES DUCTWORK & GRILLES. COMPONENTS INTERNAL TO THE AHU SUCH AS FILTERS, COILS AND DAMPERS ARE NOT INCLUDED IN THIS FIGURE.

(3) UNIT SHALL HAVE SEPARATE POWER CONNECTION FOR EACH FAN.

(4) BASED ON 150°F EWT & 30°F DROP. MAXIMUM WATER PRESSURE DROP OF 10 FT FOR COIL PLUS CONTROL VALVE. COIL SHALL HAVE A MAXIMUM OF 120 FINS PER FOOT.

(4A) BASED ON 180°F EWT & 20°F DROP.

(5) BASED ON 44°F EWT & 12°F RISE. MAXIMUM WATER PRESURE DROP OF 20 FT. FOR COIL PLUS CONTROL VALVE.

(5A) BASED ON 45°F EWT & 10°F RISE.

(6) BASED ON MAXIMUM COIL FACE VELOCITY OF 500 FPM AND MAXIMUM AIRSIDE PRESSURE DROP OF 2.0" WATER COLUMN. COIL SHALL HAVE A MINIMUM OF 6 ROWS AND A MAXIMUM OF 132 FINS PER FOOT.

(7) PROVIDE VARIABLE SPEED PUMPING SYSTEM DIFFERENTIAL PRESSURE TRANSMITTER ACROSS CHS & CHR PIPING AND ACROSS HWS & HWR PIPING TO COILS WITH INSTALLATION PER MANUFACTURER'S INSTRUCTIONS.

(8) MINIMUM AND MAXIMUM OUTSIDE AIR AND RETURN AIR CFM'S INDICATED. SIGNAL FROM DEMAND CONTROL VENTILATION CO2 SENSOR CONTROLS OA CFM, RETURN AIR CFM AND RELIEF FAN TRACK ACCORDINGLY.

(9) TBD

(10) UNIT'S FILTERS SHALL HAVE A MAXIMUM FACE VELOCITY OF 500 FPM.

(11) SUM OF MULTIZONE UNIT'S DUCT MOUNTED HEATING COILS.

(12) EXISTING SVF FANS.

(13) HEATING IN ZONE'S DUAL DUCT BOXES.

(14) IN DUCT MOUNTED ZONE HEATING COILS WITH MAXIMUM COIL FACE VELOCITY 525 FPM AND A MAXIMUM AIR PRESSURE DROP OF 0.35" WATER COLUMN.

(15) OA ECONOMIZER RELIEF IS VIA DAMPER(S) TO LOUVERED PENTHOUSES IN HOLDROOM CEILING PLENUM.

(16) TRACKING OUTSIDE AIR AND SPACE STATIC PRESSURE, SEE SEQUENCES OF OPERATION.

(17) WITH HIGH EFFICIENCY FILTRATION SECTION. 1

(18) WITH ACTIVATED CARBON FILTER SECTION.

BLOWER COIL AIR HANDLING UNIT SCHEDULE

SYMBOL	AIRFLOW		EXT SP "H20 (1)	ELECTRICAL		COOLING COIL (3)(4)							REHEAT POSITION COIL (2)				CONTROL VALVES	BASIS OF DESIGN	REMARKS
	SUPPLY AIR	OUTSIDE AIR		SUPPLY FAN HP	VOLTAGE & PHASE	EDB °F	EWB °F	LDB °F	LWB °F	GTH-MBH	GPM	PIPE SIZE	EAT °F	GTH-MBH	GPM	PIPE SIZE			
BCAHU#1	2075	210	0.60"	1.0	460V-3Ø	76.8	64.6	54.9	54.4	65.0	13 (3A)	1-1/4"	65.3	60.0	6 (2A)	1"	3-WAY	TRANE BCVD072	AIRLINE OFFICES ATO - EXISTING FOR REFERENCE ONLY
BCAHU#2	1050	120	0.50"	1.0	460V-3Ø	77.0	64.8	54.5	53.9	35.0	7 (3A)	1"	64.7	30.0	3 (2A)	3/4"	3-WAY	TRANE BCVD036	AIRLINE OFFICES ATO - EXISTING FOR REFERENCE ONLY
BCAHU#3	925	100	0.60"	1.0	460V-3Ø	76.9	64.7	54.5	54.0	30.0	6 (3A)	1"	65.0	27.5	2.75 (2A)	3/4"	3-WAY	TRANE BCVD036	AIRLINE OFFICES ATO - EXISTING FOR REFERENCE ONLY
BCAHU#4	3000	(5)	0.60"	3.0	460V-3Ø	75.0	63.0	54.5	54.3	90.0	15.00	1-1/4"	70.0	90.0	6.00	1"	2-WAY	TRANE BCHD090	BOARDING LEVEL - SCHEDULE 1 RESTAURANT AREA
BCAHU#5	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 1 CONNECTOR
BCAHU#6	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	3-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 1 CONNECTOR
BCAHU#7	3000	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	54.5	54.3	90.0	15.00	1-1/4"	70.0	90.0	6.00	1"	2-WAY	TRANE BCHD090	BOARDING LEVEL - SCHEDULE 1 TENANT FIT-UP AREA
BCAHU#8	2400	(5)	0.60"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 1
BCAHU#9	2400	(5)	0.60"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 1
BCAHU#10	2400	(5)	0.60"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 1
BCAHU#11	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 1
BCAHU#12	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 1 (6)
BCAHU#13	3000	(5)	0.60"	3.0	460V-3Ø	75.0	63.0	54.5	54.3	90.0	15.00	1-1/4"	70.0	90.0	6.00	1"	3-WAY	TRANE BCHD090	BOARDING LEVEL - SCHEDULE 1
BCAHU#14	3000	(5)	0.60"	3.0	460V-3Ø	75.0	63.0	54.5	54.3	90.0	15.00	1-1/4"	70.0	90.0	6.00	1"	3-WAY	TRANE BCHD090	BOARDING LEVEL - SCHEDULE 1
BCAHU#15	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 1
BCAHU#16	3000	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	54.5	54.3	90.0	15.00	1-1/4"	70.0	90.0	6.00	1"	2-WAY	TRANE BCHD090	BOARDING LEVEL - SCHEDULE 1
BCAHU#17	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 1
BCAHU#18	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 2
BCAHU#19	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 2
BCAHU#20	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 2 CONNECTOR
BCAHU#21	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	3-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 2 CONNECTOR
BCAHU#22	2400	(5)	0.50"	3.0	460V-3Ø	75.0	63.0	55.0	54.9	80.0	13.50	1-1/4"	70.0	70.0	5.00	1"	2-WAY	TRANE BCHD072	BOARDING LEVEL - SCHEDULE 2 CONNECTOR

(1) EXT. S.P. INCLUDES DUCTWORK & GRILLES. COMPONENTS INTERNAL TO THE AHU SUCH AS FILTERS, COILS AND DAMPERS ARE NOT INCLUDED IN THIS FIGURE.

(2) BASED ON 150°F EWT & 30°F DROP. MAXIMUM WATER PRESSURE DROP OF 10 FT FOR COIL PLUS CONTROL VALVE.

(2A) BASED ON 180°F EWT & 20°F DROP. MAXIMUM WATER PRESSURE DROP OF 10 FT FOR COIL PLUS CONTROL VALVE.

(3) BASED ON 44°F EWT & 12°F RISE. MAXIMUM WATER PRESURE DROP OF 15 FT. FOR COIL PLUS CONTROL VALVE.

(3A) BASED ON 45°F EWT & 10°F RISE. MAXIMUM WATER PRESURE DROP OF 15 FT. FOR COIL PLUS CONTROL VALVE.

(4) BASED ON MAXIMUM COIL FACE VELOCITY OF 500 FPM AND MAXIMUM AIRSIDE PRESSURE DROP OF 2.0" WATER COLUMN. COIL SHALL HAVE A MINIMUM OF 4 ROWS. UNIT'S FILTERS SHALL HAVE A MAXIMUM FACE VELOCITY OF 300 FPM.

(5) OUTSIDE AIR IS PROVIDED TO SPACE SERVED VIA DOAS AIR HANDLING UNIT.

(6) PROVIDE VARIABLE SPEED PUMPING SYSTEM DIFFERENTIAL PRESSURE TRANSMITTER ACROSS CHS & CHR PIPING AND ACROSS HWS & HWR PIPING TO COILS WITH INSTALLATION PER MANUFACTURER'S INSTRUCTIONS.

DUAL DUCT VAV TERMINAL BOX SCHEDULE

SYMBOL	DESIGN CFM	ACTUAL CFM	SERVING UNIT AND ZONE	INLET SIZE	HOT WATER COIL (1)						REMARKS
					CAPACITY BTUH	GPM	MAX WPD, FT.	MAX APD IN W.C.	PIPE SIZE	CONTROL VALVE	
DD1-1	1000	925 (2)	AHU#1 - ZONE	12"	30,000	3.0 (1A)	UNK	UNK	1"	UNK	EXISTING
DD1-2	800	849 (2)	AHU#1 - ZONE	8"	25,000	2.5 (1A)	UNK	UNK	1"	UNK	EXISTING
DD1-3	700	733 (2)	AHU#1 - ZONE	8"	20,000	2.0 (1A)	UNK	UNK	1"	UNK	EXISTING
DD1-4	650	671 (2)	AHU#1 - ZONE	8"	20,000	2.0 (1A)	UNK	UNK	1"	UNK	EXISTING
DD1-5	1100	1078 (2)	AHU#1 - ZONE	16"	32,500	3.25 (1A)	UNK	UNK	1"	UNK	EXISTING
DD2-1	2600	2386 (2)	AHU#2 - ZONE 1	19"x10"	57,200	5.7	3	0.375	3/4"	3-WAY	EXISTING
DD2-2	700	700 (2)	AHU#2 - ZONE 1	8"	15,400	1.5	3	0.25	1/2"	3-WAY	EXISTING
DD2-3	275	250 (2)	AHU#2 - ZONE 1	6"	6100	0.7	3	0.25	1/2"	3-WAY	EXISTING
DD2-4	300	287 (2)	AHU#2 - ZONE 1	6"	6600	0.7	3	0.25	1/2"	3-WAY	EXISTING
DD2-5	125	133 (2)	AHU#2 - ZONE 1	6"	2800	0.3	3	0.25	1/2"	3-WAY	EXISTING
DD2-6	650	625 (2)	AHU#2 - ZONE 1	6"	14,300	1.4	3	0.25	1/2"	3-WAY	EXISTING
DD2-7	175	162 (2)	AHU#2 - ZONE 1	6"	2800	0.3	3	0.25	1/2"	3-WAY	EXISTING
DD2-8	200	200 (2)	AHU#2 - ZONE 1	6"	4400	0.4	3	0.25	1/2"	3-WAY	EXISTING
DD2-9	300	316 (2)	AHU#2 - ZONE 1	6"	6600	0.7	3	0.25	1/2"	3-WAY	EXISTING
DD2-10	400	422 (2)	AHU#2 - ZONE 1	8"	13,200	1.3	3	0.25	1/2"	3-WAY	EXISTING
DD3-1	675	569 (2)	AHU#3 - ZONE 3	UNK	30,000	2	UNK	UNK	3/4"	UNK	EXISTING
DD3-2	850	742 (2)	AHU#3 - ZONE 3	UNK	37,500	2.5	UNK	UNK	3/4"	UNK	EXISTING
DD3-3	675	575 (2)	AHU#3 - ZONE 3	UNK	30,000	2	UNK	UNK	3/4"	UNK	EXISTING

(1) BASED ON 150°F E.W.T. AND MINIMUM WATER TEMPERATURE DROP OF 30°F

(1A) BASED ON 180°F E.W.T. AND MINIMUM WATER TEMPERATURE DROP OF 20°F

(2) INFORMATION LISTED FROM PALMETTO AIR AND WATER BALANCE TAB REPORT - JUNE 2010

VAV TERMINAL BOX SCHEDULE

TERMINAL NUMBER	BOX CFM			BOX INLET SIZE (1)	BOX RUNOUT SIZE (1)	HEATING COIL (2) (4)			CONTROL VALVES	REMARKS
	COOLING MAXIMUM	COOLING & HEATING MINIMUM	HEATING MAXIMUM			HEATING CAPACITY MBH (2)	GPM	SUPPLY AND RETURN PIPE SIZE		
VAV 9-1	400	75	200	6"	8"	9.0	0.75	3/4"	2-WAY	

(1) INLET SIZE IS ROOM TERMINAL BOX INLET SIZE. RUNOUT SIZE IS AS SCHEDULED AND SHOWN ON DRAWINGS. DUCT TRANSITION SHALL OCCUR 36" FROM BOX...
TOTAL AIR STATIC PRESSURE DROP FOR BOX TERMINAL INLET VALVE, BOX, PLUS COIL SHALL NOT EXCEED 0.60" W.G.

(2) COIL BASED ON 150°F EWT AND 30°F WATER TEMPERATURE DROP. WATER PRESSURE DROP SHALL BE 10 FT. MAXIMUM FOR THE COIL PLUS CONTROL VALVE.

(3) PROVIDE VARIABLE SPEED PUMPING SYSTEM DIFFERENTIAL PRESSURE TRANSMITTER ACROSS HWS & HWR PIPING TO COIL WITH INSTALLATION PER...

(4) HEATING COILS SHALL BE TWO ROW MINIMUM.

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:
- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
BNP

AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

1 7/26/19 AD-03

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

MECHANICAL SCHEDULES

SHEET NUMBER

M-601

ELECTRICAL NOTES

1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
2. PERMITS FOR ELECTRICAL WORK SHALL BE OBTAINED BY AND PAID BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ANY ADDITIONAL FEES FOR INSPECTIONS, TESTS, AND OTHER SERVICES AS REQUIRED FOR THE COMPLETION OF THE WORK.
3. THE ELECTRICAL CONTRACTOR AND ANY OF HIS SUBCONTRACTORS SHALL VISIT THE PROJECT SITE TO WITNESS EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE SCOPE OF THE WORK REQUIRED PRIOR TO SUBMITTING PROPOSALS. WORK REQUIRED BY EXISTING JOB CONDITIONS NOT INDICATED ON DRAWINGS SHALL BE INCLUDED IN EACH PROPOSAL.
4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO RESULT IN THE PRODUCTION OF A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND OTHER SERVICES AS NECESSARY TO COMPLETE THE WORK.
5. DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS THAT WILL AFFECT THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO SUBMITTING PROPOSALS.
6. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND INCLUDE A 3RD PARTY LABEL (I.E.: UL, CSA, ETL, ETC.) LISTING APPROVAL FOR ITS INSTALLED APPLICATION.
7. REVIEW PLANS OF OTHER TRADES FOR COORDINATION OF WORK AND FOR RELATED AND ADJOINING WORK.
8. REVIEW COMPLETE PLAN SET FOR CONSTRUCTION TYPE, FINISHES, HEADROOM, ROOF FINISHES, CEILINGS, ETC. REVIEW COMPLETE PLAN SET FOR PROJECT PHASING AND STAGING. REVIEW COMPLETE PLAN SET FOR WORK COVERED BY ALTERNATE BID ITEMS.
9. COORDINATE DEVICE AND EQUIPMENT MOUNTING HEIGHTS WITH OTHER DISCIPLINE DRAWINGS, CASEWORK DETAILS & SUBMITTALS, EQUIPMENT DETAILS & SUBMITTALS, ETC.
10. PENETRATIONS OF FIRE-RATED WALLS, FLOORS, CEILINGS, AND PARTITIONS SHALL BE FIRE STOPPED IN ACCORDANCE WITH REQUIREMENTS OF THE STATE BUILDING CODE. COORDINATE WORK TO INSURE THAT FIRE STOPPING IS COMPLETED.
11. PENETRATIONS OF SMOKE PARTITIONS SHALL BE SEALED IN ACCORDANCE WITH REQUIREMENTS OF THE STATE BUILDING CODE. COORDINATE WORK TO INSURE THAT SMOKE PARTITION SEALING IS COMPLETED.
12. PENETRATIONS OF EXTERIOR BUILDING WALLS, FLOORS, OR ROOFS SHALL BE SEALED WATERTIGHT. INTERIORS OF RACEWAY PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WITH NON-HARDENING ELECTRICAL PUTTY.
13. CUTTING AND PATCHING TO INSTALL DEVICES AND EQUIPMENT SHALL BE PERFORMED WITH FINISHES RESTORED TO THEIR ORIGINAL CONDITION. SUCH WORK SHALL BE COMPLETED TO A DEGREE THAT IS ACCEPTABLE TO THE ARCHITECT, ENGINEER, AND/OR OWNER.
14. COORDINATE PRECISE LOCATION OF HVAC EQUIPMENT WITH THE MECHANICAL CONTRACTOR.
15. FOR HVAC EQUIPMENT, VERIFY CIRCUIT BREAKER RATINGS, FUSE RATINGS, AND WIRE SIZES. IF RATINGS DIFFER FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR DIRECTION. PROVIDE OVERCURRENT PROTECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURER NAMEPLATE DATA. IF THE EQUIPMENT LISTING LABEL REQUIRES FUSED PROTECTION, ENSURE THAT FUSES IN A FUSED DISCONNECT SWITCH AT THE EQUIPMENT ARE SIZED AS INDICATED ON THE EQUIPMENT LABEL.
16. VERIFY PROPER SIZING OF OVERLOAD DEVICES IN STARTERS BASED ON EQUIPMENT NAMEPLATE DATA.
17. IF HORSEPOWER OR LOAD RATINGS OF EQUIPMENT DIFFER FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR DIRECTION.
18. PROVIDE NATIONAL ELECTRICAL CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES.
19. RECEPTACLE, SWITCH, DATA/TELEPHONE OUTLETS SHALL BE FLUSH MOUNTED IN FINISHED SPACES UNLESS OTHERWISE NOTED.
20. WHERE INSTALLED IN PLENUM SPACES, CABLES SHALL BE PLENUM-RATED OR INSTALLED IN METAL RACEWAY.
21. PRIOR TO ORDERING LIGHT FIXTURES, CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL BY REVIEW OF ARCHITECTURAL FINISH SCHEDULES AND PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL INDICATED.
22. RECESSED LIGHT FIXTURES INSTALLED IN CEILINGS HAVING INSULATION INSTALLED OVER CEILING AND FIXTURES (AS INDICATED IN ARCHITECTURAL PLANS, OR FOUND AS EXISTING CONDITIONS) SHALL BE U.L. RATED FOR DIRECT CONTACT WITH INSULATION.
23. RECESSED LIGHT FIXTURES INSTALLED IN FIRE RATED CEILING SHALL BE U.L. RATED FOR USE IN FIRE RATED CEILINGS OR SHALL BE INSTALLED WITH "TENTING' IN ACCORDANCE WITH RATING REQUIREMENTS OF THE CEILING ASSEMBLY.
24. EXIT AND EMERGENCY LIGHTS SHALL BE CONNECTED TO THE NEAREST UNSWITCHED CIRCUIT THAT SERVES LIGHT FIXTURES WITHIN THE SAME SPACE.
25. NO MOUNTING HARDWARE SHALL BE ATTACHED TO ROOF DECKS. ATTACHMENTS SHALL BE MADE TO THE ROOF SUPPORTING STRUCTURE.
26. WHERE WORKING IN EXISTING BUILDINGS, FACILITIES, OR STRUCTURES; PROTECT AND MAINTAIN IN OPERATION EXISTING LIFE SAFETY SYSTEMS, PUBLIC ADDRESS SYSTEMS, ELECTRICAL SYSTEMS, ETC. IF SHUTDOWNS ARE REQUIRED, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR COORDINATION WELL IN ADVANCE OF ANY SYSTEM SHUTDOWN. WHERE AN OUTAGE OF EXTENDED DURATION IS NOT ACCEPTABLE TO THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
27. WHERE WORKING IN EXISTING BUILDINGS, FACILITIES, OR STRUCTURES; WORK MAY BE REQUIRED TO BE PERFORMED WHILE REMAINING OCCUPIED BY OWNER STAFF. WORK SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION TO THE OWNER.
28. WHERE WORKING IN EXISTING BUILDINGS, FACILITIES, OR STRUCTURES; EXISTING ABANDONED CIRCUITS USED TO CONNECT NEW LOADS IN THE SAME AREA SHALL BE CLEARLY IDENTIFIED ON AS-BUILT MARK-UP DRAWINGS WITH REGARD TO PANEL-CIRCUIT AND CIRCUITRY ROUTING CONFIGURATION.
29. ABANDONED CIRCUITRY (RACEWAY & CONDUCTORS) SHALL BE REMOVED IN ITS ENTIRETY FROM ITS SOURCE. ABANDONED LOW VOLTAGE CABLING SHALL BE REMOVED IN ITS ENTIRETY UNLESS OTHERWISE NOTED.
30. PANEL BUS MATERIAL: COPPER.
31. SHARED NEUTRAL CONDUCTORS SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED SO ON HOMERUN CIRCUITRY DESIGNATIONS.
32. PANEL BREAKER CONFIGURATIONS SHALL BE INSTALLED AS INDICATED ON THE PANEL SCHEDULES OR AS NOTED. BREAKER POSITION REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
33. LOAD CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. CIRCUITRY REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.

ABBREVIATIONS

ADA	AMERICAN DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLER UNIT
AIC	AMPS INTERRUPTING CAPABILITY
AV	AUDIO VIDEO
BAS	BUILDING AUTOMATION SYSTEM
BCAHU	BLOWER COIL AIR HANDLER UNIT
BKR	BREAKER
C	CONDUIT
C/B	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING
CKT	CIRCUIT
COMB	COMBINATION
COMM	COMMUNICATIONS
COMP	COMPRESSOR
CU	COPPER
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSED
EXSTG	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FACU	FIRE ALARM CONTROL UNIT
FMC	FLEXIBLE METALLIC CONDUIT
G	EQUIPMENT GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFEP	GROUND FAULT EQUIPMENT PROTECTED
GFI	GROUND FAULT INTERRUPTER
GPU	GROUND POWER UNIT
HPF	HIGH POWER FACTOR
HP	HEAT PUMP
HP	HORSEPOWER
IMC	INTERMEDIATE METAL CONDUIT
K	KILO (THOUSAND)
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
LTG	LIGHTING
LTS	LIGHTS
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CONTROL PANEL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NTS	NOT TO SCALE
P	PHASE OR POLE
PBB	PASSENGER BOARDING BRIDGE
PC	PLUMBING CONTRACTOR
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
RECPT	RECEPTACLE
REQ.	REQUIRED
RGC	RIGID GALVANIZED CONDUIT
RGS	RIGID GALVANIZED STEEL
S.S.	STAINLESS STEEL
SYS	SYSTEM
S/N	SOLID NEUTRAL
TEL	TELEPHONE
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W	WIRE
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER

SHEET LIST

E-001	ELECTRICAL NOTES, SHEET LIST, & APPENDIX B SUMMARY
E-002	ELECTRICAL LEGENDS
ED1-111	SCHEDULE 1 – ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 1
ED1-113	SCHEDULE 1 – ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 3
ED1-114	SCHEDULE 1 – ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 4
ED1-115	SCHEDULE 1 – ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 5
ED1-121	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 1
ED1-123	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 3
ED1-125	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 5
E1-109	SCHEDULE 1 – ELECTRICAL SITE PLAN
E1-110	SCHEDULE 1 – ELECTRICAL RAMP LEVEL OVERALL PLAN
E1-111	SCHEDULE 1 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1
E1-112	SCHEDULE 1 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 2
E1-113	SCHEDULE 1 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 3
E1-114	SCHEDULE 1 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 4
E1-115	SCHEDULE 1 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 5
E1-116	SCHEDULE 1 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 6
E1-121	SCHEDULE 1 – ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 1
E1-122	SCHEDULE 1 – ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 2
E1-123	SCHEDULE 1 – ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 3
E1-124	SCHEDULE 1 – ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 4
E1-131	SCHEDULE 1 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 1
E1-132	SCHEDULE 1 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 2
E1-133	SCHEDULE 1 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 3
E1-135	SCHEDULE 1 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 5
E1-136	SCHEDULE 1 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 6
E1-140	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL OVERALL PLAN
E1-141	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1
E1-142	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2
E1-143	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3
E1-151	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1
E1-152	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 2
E1-153	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 3
E1-157	SCHEDULE 1 – ELECTRICAL CLERESTORY LEVEL LIGHTING PLAN
E1-161	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 1
E1-162	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 2
E1-163	SCHEDULE 1 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 3
E1-171	SCHEDULE 1 – ELECTRICAL ROOF PLAN ZONE 1
E1-172	SCHEDULE 1 – ELECTRICAL ROOF PLAN ZONE 2
E1-173	SCHEDULE 1 – ELECTRICAL ROOF PLAN ZONE 3
E1-401	SCHEDULE 1 – ELECTRICAL ENLARGED ELECTRICAL ROOM PLANS
E1-402	SCHEDULE 1 – ELECTRICAL GENERATOR & UTILITY XFMR PLANS
E1-403	SCHEDULE 1 – ELECTRICAL ENLARGED PLANS – MECHANICAL A4
ED2-111	SCHEDULE 2 – ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 1
ED2-112	SCHEDULE 2 – ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 2
ED2-113	SCHEDULE 2 – ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 3
ED2-114	SCHEDULE 2 – ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 4
ED2-115	SCHEDULE 2 – ELECTRICAL RAMP LEVEL DEMO PLAN ZONE 5
ED2-121	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 1
ED2-123	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 3
ED2-124	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 4
ED2-125	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL DEMO PLAN ZONE 5
E2-110	SCHEDULE 2 – ELECTRICAL RAMP LEVEL OVERALL PLAN
E2-111	SCHEDULE 2 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1
E2-113	SCHEDULE 2 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 3
E2-114	SCHEDULE 2 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 4
E2-115	SCHEDULE 2 – ELECTRICAL RAMP LEVEL POWER PLAN ZONE 5
E2-121	SCHEDULE 2 – ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 1
E2-123	SCHEDULE 2 – ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 3
E2-124	SCHEDULE 2 – ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 4
E2-125	SCHEDULE 2 – ELECTRICAL RAMP LEVEL LIGHTING PLAN ZONE 5
E2-131	SCHEDULE 2 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 1
E2-133	SCHEDULE 2 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 3
E2-134	SCHEDULE 2 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 4
E2-135	SCHEDULE 2 – ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS ZONE 5
E2-140	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL OVERALL PLAN
E2-141	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1
E2-142	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2
E2-143	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3
E2-144	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 4
E2-145	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 5
E2-146	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 6 (1)
E2-151	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1
E2-153	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 3
E2-154	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 4
E2-155	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 5
E2-156	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 6
E2-161	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 1
E2-163	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 3
E2-164	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 4
E2-165	SCHEDULE 2 – ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS ZONE 5
E2-171	SCHEDULE 1 – ELECTRICAL ROOF PLAN ZONE 1
E2-173	SCHEDULE 1 – ELECTRICAL ROOF PLAN ZONE 3
E2-174	SCHEDULE 1 – ELECTRICAL ROOF PLAN ZONE 4
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-503	ELECTRICAL DETAILS
E-504	ELECTRICAL DETAILS
E-601	ELECTRICAL LUMINAIRE AND DIMMER SCHEDULE
E-602	ELECTRICAL EQUIPMENT CIRCUITRY SCHEDULES
E-603	ELECTRICAL PANEL SCHEDULES
E-604	ELECTRICAL PANEL SCHEDULES
E-605	ELECTRICAL PANEL SCHEDULES
E-606	ELECTRICAL PANEL SCHEDULES
E-701	ELECTRICAL POWER RISER DIAGRAM
E-702	ELECTRICAL POWER RISER DIAGRAM
E-703	ELECTRICAL MISCELLANEOUS RISER DIAGRAMS
E-801	ELECTRICAL PA ZONE COVERAGE PLAN

WARNING

Maximum Available Fault Current:
30,377 Symmetrical RMS Amperes
Date: 06/28/2019
Based on :
Utility Transformer: 1500 kVA (Maxiumum)
Utility Transformer: 5.32% Impedance (Minimum)
Service Feeder: #600KCMIL (6 SETS)(Maximum) Copper
Service Feeder Length: 390 (Minimum)
Motor Load: 600 kVA (Maximum)

NOTE
THE CONTRACTOR SHALL OBTAIN INSTALLED SERVICE TRANSFORMER DATA AND AVAILABLE FAULT CURRENT DATA FROM THE UTILITY COMPANY. FORWARD INFORMATION TO THE ENGINEER FOR ASSESSMENT OF REVISIONS TO THE LABEL DATA.

A E-001 FAULT CURRENT LABEL FOR SERVICE EQUIPMENT
NO SCALE

APPENDIX B, BUILDING CODE SUMMARY
ELECTRICAL SUMMARY FOR BUILDING ADDITION

METHOD OF COMPLIANCE
-ENERGY CODE: ☒ PRESCRIPTIVE ☐ PERFORMANCE
-ASHRAE 90.1: ☐ PRESCRIPTIVE ☐ PERFORMANCE

LIGHTING SCHEDULE
Lamp Type Required In Fixtures
Number of Lamps In Fixtures
Ballast Types Used in Fixtures
Number of Ballasts Used in Fixtures
Total Wattage per Fixture
— SEE LIGHT FIXTURE / LUMINAIRE SCHEDULE

TOTAL WATTAGE SPECIFIED VERSUS ALLOWED
Interior Specified: **55,336 Watts** Exterior Specified: **7,467 Watts**
Interior Allowed: **74,294 Watts** Exterior Allowed: **17,035 Watts**

ADDITIONAL METHOD OF COMPLIANCE:
☐ 506.2.1 More Efficient Mechanical Equipment
☒ 506.2.2 Reduced Lighting Power Density
☐ 506.2.3 Energy Recovery Ventilation System
☐ 506.2.4 Higher Efficiency Service Water Heating
☐ 506.2.5 On-Site Supply of Renewable Energy
☐ 506.2.6 Automatic Daylighting Control Systems

DESIGNER STATEMENT
To the best of my knowledge and belief, the design of this building complies with the electrical systems and equipment requirements of the North Carolina State Building Code, Section 505 of the North Carolina Energy Conservation Code.

SIGNED: Mark A. Ciarrocca
NAME: Mark A. Ciarrocca, P.E.
TITLE: Engineer

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 038411 — 26 JULY 2019 — MARK A. CIARROCCA

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PROJECT MANAGER & CIVIL ENGINEER
TALBERT & BRIGHT

CONSULTING ARCHITECT
LS3P

STRUCTURAL ENGINEER
STEWART

FP/P/M/E ENGINEER
CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
BNP

AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

⚠ AD-03	07/26/2019

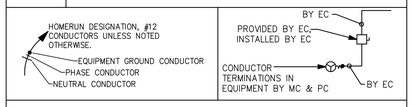
DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

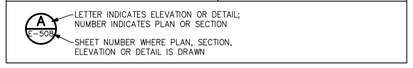
ELECTRICAL NOTES, SHEET LIST, & APPENDIX B SUMMARY

SHEET NUMBER
E-001

MISC. ELECTRICAL SYMBOL LEGEND

- ENCLOSED CIRCUIT BREAKER, NEMA 1 (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT RATING.
- EQUIPMENT CONNECTION
- SAFETY SWITCH DISCONNECT, HEAVY-DUTY, NON-FUSED, NEMA 1 INSIDE, NEMA 4X OUTSIDE (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT BREAKER RATING.
- SAFETY SWITCH DISCONNECT, HEAVY-DUTY, FUSED AT NAMEPLATE RATING OF EQUIPMENT SERVED, NEMA 1 INSIDE, NEMA 4X OUTSIDE (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT BREAKER RATING.
- MANUAL MOTOR STARTER, SIZED IN ACCORDANCE WITH NAMEPLATE RATING OF EQUIPMENT SERVED
- PANELBOARD, SEE PANEL SCHEDULE
- TRANSFORMER, DRY TYPE, RATINGS INDICATED. PROVIDE 4" CONCRETE HOUSE KEEPING PAD IF A FLOOR MOUNTED UNIT IS PROVIDED.
- GROUND ROD, 3/4" X 10' COPPER CLAD. WHERE TWO RODS ARE INDICATED, SPACE A MINIMUM OF 20' APART.
- DOOR OPERATOR PUSHBUTTON STATION.





RECEPTACLE LEGEND

SYMBOL	NEMA	VOLTS	DESCRIPTION
	5-20R	120V 1P 2W	DUPLEX, MTD 18" AFF UNO
CW	5-20R	120V 1P 2W	DUPLEX, MTD TO CEILING STRUCTURE FOR CATWALK MAINTENANCE.
CP	5-20R	120V 1P 2W	DUPLEX FOR CONDENSATE PUMP; COORDINATE LOCATION W/ MECH CONTRACTOR
G	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 6" ABOVE COUNTER HEIGHT UNO
EWC	5-20R	120V 1P 2W	DUPLEX ELECTRIC WATER COOLER OUTLET; SUPPLY FROM GFCI TYPE C/B; COORDINATE MTG LOCATION TO CONCEAL OUTLET WHEN COOLER IS INSTALLED.
W/G	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 18" AFG UNO; LISTED WEATHER-RESISTANT TYPE; PROVIDE CAST ALUMINUM WEATHERPROOF IN-USE COVER WITH CAST ALUMINUM FD WEATHERPROOF BOX
FID	5-20R	120V 1P 2W	DUPLEX FOR FLIGHT INFORMATION DISPLAY, LOCATED BEHIND TV MOUNT IN RECESSED LCD OUTLET BOX (COORDINATE SPECIFIC LOCATION AND HEIGHT WITH OWNER/ARCHITECT). SEE AUXILIARY SYSTEMS PLANS FOR SHARED BOX WITH DATA OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. SEE DETAIL J/E-501.
G	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 18" AFF UNO
HT	5-20R	120V 1P 2W	DUPLEX GFCI FOR HEAT TRACE; LISTED WEATHER-RESISTANT TYPE; PROVIDE CAST ALUMINUM WEATHERPROOF IN-USE COVER WITH CAST ALUMINUM FD WEATHERPROOF BOX.
HB	5-20R	120V 1P 2W	DUPLEX FOR HOT BOX HEATER; SUPPLY FROM GFEP C/B (30mA); LISTED WEATHER-RESISTANT TYPE; PROVIDE CAST ALUMINUM WEATHERPROOF IN-USE COVER WITH CAST ALUMINUM FD WEATHERPROOF BOX. COORDINATE MTG HEIGHT WITH ENCLOSURE PROVIDED.
	5-20R	120V 1P 2W	DUPLEX; MTD IN POKE-THRU ASSEMBLY; SEE AUX SYS PLANS FOR SHARED ASSEMBLY; 6" POKE-THRU WITH 3-GANG CAPACITY; COVER FINISH SELECTION BY ARCHITECT.
R	5-20R	120V 1P 2W	DUPLEX FOR REFRIGERATOR; MOUNT 48" AFF UNO. SUPPLY FROM GFCI TYPE C/B.
SPA	5-20R	120V 1P 2W	DUPLEX POWER FOR SUMP PUMP ALARM PANEL. COORDINATE EXACT LOCATION WITH OWNER.
G	5-20R	120V 1P 2W	TSA TDC/CAT OUTLET (G); 5-20R DUPLEX; MTD IN 8" POKE-THRU ASSEMBLY; SEE AUX SYS PLANS FOR SHARED ASSEMBLY; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503.
P	5-20R	120V 1P 2W	TSA STSO OUTLET (P); 5-20R DUPLEX MTD IN 8" POKE-THRU ASSEMBLY; SEE AUX SYS PLANS FOR SHARED ASSEMBLY; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503.
TVC	5-20R	120V 1P 2W	DUPLEX, UNO MTD AT CEILING FOR TV.
DDC		120V 1P 2W	J-BOX ABOVE CLG LEVEL FOR DDC OR MECHANICAL CONTROL POWER SOURCE
PEND		120V 1P 2W	POWER FOR FUTURE DECORATIVE PENDANT. MOUNTED AT TOP OF CUPOLA.
EL		120V 1P 2W	POWER FOR EXIT LANE. COORDINATE EXACT LOCATION WITH EQUIPMENT VENDOR.
IRFA		120V 1P 2W	POWER FOR FIRE ALARM COMPONENTS
GS		120V 1P 2W	POWER FOR ILLUMINATED GATE SIGN. MOUNT ABOVE GATE DOOR, COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH SIGN VENDOR.
IS		120V 1P 2W	POWER FOR ILLUMINATED SIGN. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH SIGN VENDOR.
LM		120V 1P 2W	POWER FOR LED LIGHTED MIRROR. COORDINATE WITH ARCHITECT FOR EXACT HEIGHT AND LOCATION.
	5-20R	120V 1P 2W	QUAD, MTD 18" AFF UNO
BD	5-20R	120V 1P 2W	QUAD FOR BACK DISPLAY. LOCATED IN RECESSED OUTLET BOX (COORDINATE SPECIFIC LOCATION WITH OWNER/ARCHITECT). SEE AUXILIARY SYSTEMS PLANS FOR SHARED BOX WITH DATA OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. SEE DETAIL S/E-502.
	5-20R	120V 1P 2W	QUAD, MTD IN FLUSH FLOOR BOX; SEE AUX SYS PLANS FOR SHARED BOX; PROVIDE DIVIDER FOR POWER SEPARATION FROM VOICE/DATA
	5-20R	120V 1P 2W	QUAD; MTD IN POKE-THRU ASSEMBLY; SEE AUX SYS PLANS FOR SHARED ASSEMBLY; 8" POKE-THRU WITH 4-GANG CAPACITY; COVER FINISH SELECTION BY ARCHITECT.
F	5-20R	120V 1P 2W	TSA DURESS OUTLET (F); QUAD; MTD 18" AFF UNO. SEE TSA OUTLETS DETAIL A-503.
SUMP	5-20R	120V 1P 2W	SIMPLEX OUTLET FOR SUMP PUMP; SUPPLIED FROM GFCI C/B; MOUNT 24" AFF/AFG.
L5-30R	L5-30R	120V 1P 2W	DATA ROOM RECEPTACLE. MOUNT TO TOP OF RACK.
A		120V 1P 2W	TSA FRONT XRAY OUTLET (A). 5-20R DUPLEX & L5-15R TWSTLOCK MTD IN 8" POKE-THRU ASSEMBLY; SEE AUX SYS PLANS FOR SHARED ASSEMBLY; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503.
B		120V 1P 2W	TSA REAR XRAY OUTLET (B). (3) 5-20R DUPLEX, (1) 5-20R SIMPLEX, & (1) L5-30R TWSTLOCK MOUNTED IN 10" POKE-THRU ASSEMBLY; VERIFY SPACING REQUIREMENTS WITH MANUFACTURER FOR MINIMUM DISTANCE FROM ADJACENT DATA POKE-THRU; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503.
C		120V 1P 2W	TSA AVS/BLS/ETD OUTLET (C). 5-20R DUPLEX MTD IN 8" POKE-THRU ASSEMBLY; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503.
L6-30R	L6-30R	208V 2P 2W	POWER FOR TSA IT CABINET
		120V 1P 2W	EXHAUST FAN; SEE MECHANICAL SCHEDULE. PROVIDE POWER PACK FOR SWITCHING WITH LIGHTING CEILING OCCUPANCY SENSOR.

SWITCH LEGEND

SYMBOL	DESCRIPTION	NOTES
$D	DIMMER SWITCH	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
$D3	DIMMER SWITCH FOR 3-WAY CONTROL	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
$4	4-WAY SWITCH	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO; WHERE SHOWN PAIRED, PROVIDE DUAL LEVEL SWITCHING.
$LV	LOW VOLTAGE SWITCH; MTD 42" AFF UNO	CONNECT VIA LOW VOLTAGE BUS TO LIGHTING CONTROL SYSTEM; VERIFY CABLE REQUIREMENTS WITH VENDOR; SEE PLAN NOTES FOR CONTROL INFO.
$OD	OCCUPANCY SENSOR WALL SWITCH, DIMMER; DUAL TECHNOLOGY	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
$01	OCCUPANCY SENSOR WALL SWITCH, SINGLE CKT, DUAL TECHNOLOGY	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
2	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL MTD @ 10' AFF UNO	INCORPORATE POWER PACK FOR CIRCUITRY SWITCHING, SEE WIRING DIAGRAMS
	OCCUPANCY SENSOR, DUAL TECHNOLOGY; CEILING MTD	INCORPORATE POWER PACK FOR CIRCUITRY SWITCHING, SEE WIRING DIAGRAMS
	PHOTOCELL, EXTERIOR; MOUNT ON NORTH FACE OF BLDG, FACING NORTH	
FAA	FAA PHOTOCELL, EXTERIOR; MOUNT ON NORTH FACE OF BLDG, FACING NORTH	
$	TOGGLE SWITCH, SINGLE POLE	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
$3	3-WAY SWITCH	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION	MOUNTING
AMP	AMPLIFIER	WALL
CM	CONTROL / RELAY MODULE	
CM DR	RELAY MODULE FOR DOOR RELEASE ON FIRE ALARM	ACCESS CONTROL EQUIPMENT
CM FD	CONTROL / RELAY MODULE FOR FIRE DOOR ACTIVATION	EQUIPMENT
	DUCT DETECTOR - PROVIDED BY FIRE ALARM VENDOR	BY MECH CONTRACTOR
FCPS	FIELD CHARGING POWER SUPPLY	WALL
FS	FLOW SWITCH	BY SPRINKLER CONTRACTOR
H	HEAT DETECTOR	CEILING
H E	HEAT DETECTOR- ELEVATOR PIT, COORDINATE LOCATION WITH SPRINKLER HEAD	WALL
F 15	HORN/STROBE, 15 CANDELA	WALL
LOC	LOCAL OPERATOR CONSOLE	WALL
MM TS	MONITOR MODULE FOR TAMPER SWITCH	
MM	MONITOR MODULE FOR MONITORING A DRY CONTACT CLOSURE DEVICE	
F	PULL STATION	WALL
R	REMOTE INDICATOR WITH TEST SWITCH FOR DUCT DETECTOR	CEILING / WALL
S	SMOKE DETECTOR	CEILING
S	SMOKE DETECTOR	WALL
TS	TAMPER SWITCH	BY SPRINKLER CONTRACTOR

FIRE ALARM AV LEGEND

SYMBOL	DESCRIPTION	MOUNTING
M	SPEAKER 1/4 WATT - 8 WATT MULTI TAP SPEAKER	CEILING MTD
1/2-15	SPEAKER STROBE 1/2 WATT, 15 CANDELA	CEILING MTD
1/2-30	SPEAKER STROBE 1/2 WATT, 30 CANDELA	CEILING MTD
1/2-75	SPEAKER STROBE 1/2 WATT, 75 CANDELA	CEILING MTD
1/4-15	SPEAKER STROBE 1/4 WATT, 15 CANDELA	CEILING MTD
1/4-30	SPEAKER STROBE 1/4 WATT, 30 CANDELA	CEILING MTD
1-15	SPEAKER STROBE 1 WATT, 15 CANDELA	CEILING MTD
1-30	SPEAKER STROBE 1 WATT, 30 CANDELA	CEILING MTD
1-75	SPEAKER STROBE 1 WATT, 75 CANDELA	CEILING MTD
2-75	SPEAKER STROBE 2 WATT, 75 CANDELA	CEILING MTD
2-95	SPEAKER STROBE 2 WATT, 95 CANDELA	CEILING MTD
2-115	SPEAKER STROBE 2 WATT, 115 CANDELA	CEILING MTD
2-177	SPEAKER STROBE 2 WATT, 177 CANDELA	CEILING MTD
1/2-15	SPEAKER STROBE 1/2 WATT, 15 CANDELA	WALL MTD
1/2-30	SPEAKER STROBE 1/2 WATT, 30 CANDELA	WALL MTD
1-75	SPEAKER STROBE 1 WATT, 75 CANDELA	WALL MTD
1-95	SPEAKER STROBE 1 WATT, 95 CANDELA	WALL MTD
2-75	SPEAKER STROBE 2 WATT, 75 CANDELA	WALL MTD
2-95	SPEAKER STROBE 2 WATT, 95 CANDELA	WALL MTD
2-115	SPEAKER STROBE 2 WATT, 115 CANDELA	WALL MTD
2-177	SPEAKER STROBE 2 WATT, 177 CANDELA	WALL MTD
15	STROBE 15 CANDELA	WALL MTD

PA AND SECURITY LEGEND

SYMBOL	DESCRIPTION	MOUNTING	NOTES
PA	DEMO PA SPEAKER	CEILING	
CR BIO	CARD READER, BIOMETRIC	4" SQUARE BOX RECESSED	INSTALL 3/4"C AND CABLE TO ROOM BUILDING MANAGEMENT A111
CR NB	CARD READER, NON-BIOMETRIC	4" SQUARE BOX RECESSED	INSTALL 3/4"C AND CABLE TO ROOM BUILDING MANAGEMENT A111
CR 3C	SECURITY CAMERA, 3-SENSOR	CEILING; 4" SQUARE BOX, RECESSED	STUB 3/4"C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
CR 3W	SECURITY CAMERA, 3-SENSOR	WALL; 4" SQUARE BOX, RECESSED; COORDINATE HEIGHT W/ ARCHITECT	STUB 3/4"C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
CR 4C	SECURITY CAMERA, 4-SENSOR	CEILING; 4" SQUARE BOX, RECESSED	STUB 3/4"C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
CR 4W	SECURITY CAMERA, 4-SENSOR	WALL; 4" SQUARE BOX, RECESSED; COORDINATE HEIGHT W/ ARCHITECT	STUB 3/4"C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
CR FC	SECURITY CAMERA, FIXED FOCUS	CEILING; 4" SQUARE BOX, RECESSED	STUB 3/4"C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
CR FW	SECURITY CAMERA, FIXED FOCUS	WALL; 4" SQUARE BOX, RECESSED; COORDINATE HEIGHT W/ ARCHITECT	STUB 3/4"C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
CR PTZC	SECURITY CAMERA, PAN-TILT-ZOOM	CEILING; 4" SQUARE BOX, RECESSED	STUB 3/4"C TO INDICATED LOCATION OR NEAREST ACCESSIBLE CEILING SPACE; INSTALL CAT6 CABLE TO NEAREST ILM IT SPACE
CR BHS	CARD READER FOR BHS	COORDINATE EXACT LOCATION WITH BHS VENDOR	4" SQUARE BOX RECESSED. COORDINATE MOUNTING WHERE INDICATED AT BHS MCPS. INSTALL 3/4"C AND CABLE TO ROOM BUILDING MANAGEMENT A111.
	DOOR SWITCH / CONTACT	RECESSED	1/2" FLEXIBLE METALLIC CONDUIT CONCEALED IN DOOR FRAME HEADER TO JUNCTION BOX MTD ABOVE DOOR. INSTALL 3/4"C AND CABLE TO ROOM BUILDING MANAGEMENT A111.
BHS	DRY CONTACTS		CONVEYOR FIRE DOOR POSITION MONITORING (OPEN & CLOSED) THROUGH BHS CONTROL PANEL. 3/4"C AND CABLE (4#14#14G) BACK TO ROOM BUILDING MANAGEMENT A111.
EH	ELECTRIC HINGE		1/2" FLEXIBLE METALLIC CONDUIT CONCEALED IN DOOR FRAME TO JUNCTION BOX MTD ABOVE CEILING. PROVIDE PATHWAY THROUGH DOOR TO ACCOMMODATE CONNECTION TO ASSOCIATED ELECTRIC STRIKE.
ES	ELECTRIC STRIKE		FOR SINGLE DOOR, PROVIDE 1/2" FLEXIBLE METALLIC CONDUIT CONCEALED IN DOOR FRAME TO JUNCTION BOX MTD ABOVE CEILING. SEE NOTES AT ELECTRIC HINGE FOR DOUBLE DOOR CONFIGURATION.
S	PA SPEAKER	CEILING/ RECESSED	

DATA & TELEPHONE OUTLET LEGEND

SYMBOL	DESCRIPTION	PROVIDED BY: CONTRACTOR
BD	DATA / TELEPHONE OUTLET FOR BACK LINEDISPLAY INFORMATION	WALL, LOCATED BEHIND BACK DISPLAY IN RECESSED LCD OUTLET BOX (COORDINATE SPECIFIC LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT). SEE POWER PLANS FOR SHARED BOX WITH POWER OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. ROUTE (4) 1" C TO IT A1112 INSTALL (5) CAT 6 CABLES TO IT ROOM A1112 AS FOLLOWS: (1) CAT 6 CABLE FOR AMERICAN AIRLINES (1) CAT 6 CABLE FOR DELTA AIRLINES (1) CAT 6 CABLE TO UNITED AIRLINES (1) CAT 6 CABLE TO ILM DATA RACK (1) CAT 6 CABLE FOR FUTURE
EL	DATA / TELEPHONE OUTLET FOR EXIT LANE	ABOVE CEILING, 4" SQUARE, DEEP BOX. COORDINATE EXACT LOCATION WITH EXIT LANE VENDOR. INSTALL (2) CAT 6 CABLES TO IT A1112 OR TO ROOM BUILDING MANAGEMENT A11
FID	DATA / TELEPHONE OUTLET FOR FLIGHT INFORMATION DISPLAY	WALL, LOCATED BEHIND FLIGHT INFORMATION DISPLAY IN RECESSED LCD OUTLET BOX (COORDINATE SPECIFIC LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT). SEE POWER PLANS FOR SHARED BOX WITH POWER OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. ROUTE 1" C TO IT A1112 (1) CAT 6 CABLE TO ILM DATA RACK (1) CAT 6 CABLE FOR FUTURE
ILM	DATA / TELEPHONE OUTLET	WALL, 18" AFF UNO; 4" SQUARE, DEEP BOX; STUB 1"C TO 6" ABOVE CEILING INSTALL (2) CAT 6 CABLES TO IT A1112 OR TO ROOM BUILDING MANAGEMENT A11
ILM-F	FUTURE DATA DROP	DATA DROP ABOVE CEILING FOR FUTURE ILM USE. INSTALL (1) CAT 6 CABLES TO IT A1112 OR TO ROOM BUILDING MANAGEMENT A11. PROVIDE 25' CABLE COIL ABOVE ACCESSIBLE CEILING. TERMINATE ENDS & LABEL AS "FUTURE ILM USE"
ILM TV	DATA / TELEPHONE OUTLET	ABOVE CEILING, 4" SQUARE, DEEP BOX INSTALL (2) CAT 6 CABLES TO IT A1112 OR TO ROOM BUILDING MANAGEMENT A11
TSA	TSA DATA / TELEPHONE OUTLET	WALL, 18" AFF UNO; 4" SQUARE, DEEP BOX; STUB 1"C TO 6" ABOVE CEILING OR DOWN THROUGH SLAB AS REQUIRED. INSTALL (2) CAT 6 CABLES TO TSA IT RACK IN RAMP LEVEL ROOM 125.
TSA-A	TSA DATA OUTLET (A)	TSA FRONT XRAY OUTLET (A). 8" POKE-THROUGH ASSEMBLY WITH SHARED POWER OUTLETS. STUB 1"C DOWN THROUGH SLAB; EXTEND TO CONCEALED LOCATION AS REQUIRED. INSTALL (2) CAT 6 CABLES TO TSA IT RACK IN RAMP LEVEL TSA TRAINING ROOM 125. SEE TSA OUTLETS DETAIL A-503.
TSA-B	TSA DATA OUTLET (B)	TSA REAR XRAY OUTLET (B). 6" POKE-THROUGH ASSEMBLY; VERIFY SPACING REQUIREMENTS WITH MANUFACTURER FOR MINIMUM DISTANCE FROM ADJACENT POWERPOKE-THRU; COVER FINISH SELECTION BY ARCHITECT. SEE TSA OUTLETS DETAIL A-503. STUB 1 1/2"C DOWN THROUGH SLAB; EXTEND TO CONCEALED LOCATION AS REQUIRED. INSTALL (6) CAT 6 CABLES TO TSA IT RACK IN RAMP LEVEL TSA TRAINING ROOM 125. STUB 1 "C DOWN THROUGH SLAB, OVER, AND UP THROUGH SLAB AT TSA AVS/BLS/ETD FLOOR OUTLET (C). INSTALL (2) CAT 6 CABLES TO TSA AVS/BLS/ETD FLOOR OUTLET (C).
TSA-C	TSA DATA OUTLET (C)	TSA AVS/BLS/ETD OUTLET (C). 8" POKE-THROUGH ASSEMBLY WITH SHARED POWER OUTLETS. SEE TSA OUTLETS DETAIL A-503. STUB 1 1/4"C DOWN THROUGH SLAB; EXTEND TO CONCEALED LOCATION AS REQUIRED. INSTALL (4) CAT 6 CABLES TO TSA IT RACK IN RAMP LEVEL TSA TRAINING ROOM 125. STUB 1 "C DOWN THROUGH SLAB, OVER, AND UP THROUGH SLAB AT TSA REAR XRAY FLOOR OUTLET (B). INSTALL (2) CAT 6 CABLES TO TSA REAR XRAY FLOOR OUTLET (B).
TSA-F	TSA DATA OUTLET (F)	TSA DURESS & CHRONOS CLOCK OUTLETS (F). ONE POTS PHONE LINE OUTLET (DURESS) & TWO CHRONOS CLOCK DATA OUTLETS; MTD 18" AFF UNO. STUB 1 1/4"C DOWN THROUGH SLAB; EXTEND TO CONCEALED LOCATION AS REQUIRED. INSTALL (3) CAT 6 CABLES TO TSA IT RACK IN RAMP LEVEL TSA TRAINING ROOM 125. SEE TSA OUTLETS DETAIL A-503.
TSA-G	TSA DATA OUTLET (G)	TSA TDC/CAT OUTLET (G); MTD IN 8" POKE-THRU ASSEMBLY; SEE POWER PLANS FOR SHARED ASSEMBLY. INSTALL 1"C FROM POKE-THRU TO CONCEALED SPACE AS REQUIRED. INSTALL (2) CAT6 CABLES TO TSA IT RACK IN RAMP LEVEL TSA TRAINING ROOM 125. SEE TSA OUTLETS DETAIL A-503.
TSA-P	TSA DATA OUTLET (P)	TSA STSO OUTLET (P); MTD IN 8" POKE-THRU ASSEMBLY; SEE POWER PLANS FOR SHARED ASSEMBLY. INSTALL 1"C FROM POKE-THRU TO CONCEALED SPACE AS REQUIRED. INSTALL (2) CAT6 CABLES TO TSA IT RACK IN RAMP LEVEL TSA TRAINING ROOM 125. SEE TSA OUTLETS DETAIL A-503.
AP	DATA DROP FOR ACCESS POINT	PROVIDE 20' COIL AT TERMINATED DATA DROP LOCATION FOR CONNECTION TO FUTURE OWNER PROVIDED EQUIPMENT. INSTALL (1) CAT 6A CABLE TO IT A1112, ILM RACK
	DATA / TELEPHONE OUTLET	FLOOR AT COUNTER; MTD IN POKE-THRU ASSEMBLY; INTEGRAL TO POWER FLOOR BOX WITH DIVIDER SEPARATING POWER & COMMUNICATIONS COORDINATE EXACT LOCATION WITH ARCHITECT ROUTE (1) 2" C UNDERGROUND TO IT A1112 INSTALL (5) CAT 6 CABLES TO IT A1112 (1) CAT 6 CABLE FOR AMERICAN AIRLINES (1) CAT 6 CABLE FOR DELTA AIRLINES (1) CAT 6 CABLE TO UNITED AIRLINES (1) CAT 6 CABLE FOR FUTURE (1) CAT 6 CABLE TO PA SYSTEM
	DATA / TELEPHONE OUTLET	FLOOR, INTEGRAL TO POWER FLOOR BOX WITH DIVIDER SEPARATING POWER & COMMUNICATIONS ROUTE (2) 1" C UNDERGROUND, TURN UP INTO WALL CAVITY, & STUB UP TO 6" ABOVE CEILING INSTALL (2) CAT 6 CABLES TO ROOM BUILDING MANAGEMENT A11.
ELEV	TELEPHONE OUTLET FOR ELEVATOR COMMUNICATION	COORDINATE INSTALLATION LOCATION WITH ELEVATOR VENDOR/INSTALLER

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 31174 — 31 JULY 2019 — MARK A. CIARROCCA

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REVISIONS

1	AD-03	07/26/2019

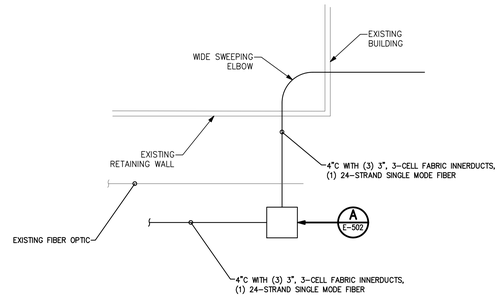
DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

ELECTRICAL LEGENDS

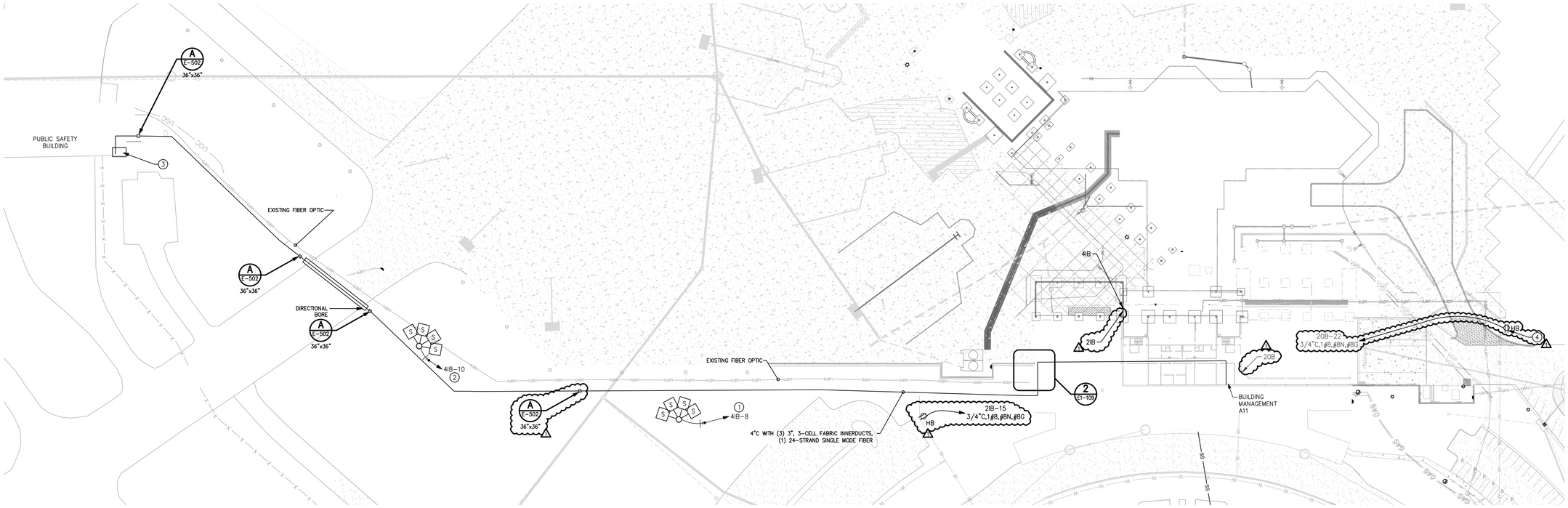
SHEET NUMBER
E-002

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



2 E1-109 ELECTRICAL ENLARGED PLAN
SCALE: NO SCALE



1 E1-109 ELECTRICAL SITE PLAN
SCALE: 1" = 50'

GRAPHIC SCALE: 1"=50'
0 12 25 50 100
TRUE NORTH

KEYED NOTES:

1. LIGHTING CIRCUIT TO BE CONTROLLED THROUGH EXISTING GE LIGHTING CONTROL PANEL (CATALOG #RCDV48SHL) LOCATED IN ELECTRICAL ROOM A5. SEE E2-125 FOR PANEL LOCATION. CONTRACTOR TO PROVIDE NEW RELAY. PROVIDE #10,#10N,#10G FOR OBSTRUCTION LIGHTS. OBSTRUCTION LIGHTS TO BE CIRCUITED FROM 2IB-14 AND SWITCHED THROUGH FAA PHOTOCELL. SEE E1-124 FOR LOCATION OF FAA PHOTOCELL.
2. LIGHTING CIRCUIT TO BE CONTROLLED THROUGH EXISTING GE LIGHTING CONTROL PANEL (CATALOG #RCDV48SHL) LOCATED IN ELECTRICAL ROOM A5. SEE E2-125 FOR PANEL LOCATION. CONTRACTOR TO PROVIDE NEW RELAY. PROVIDE #10,#10N,#10G FOR OBSTRUCTION LIGHTS. OBSTRUCTION LIGHTS TO BE CIRCUITED FROM 2IB-16 AND SWITCHED THROUGH FAA PHOTOCELL. SEE E1-124 FOR LOCATION OF FAA PHOTOCELL.
3. 4"C WITH (3) 3", 3-CELL FABRIC INNERDUCTS, (1) 24-STRAND SINGLE MODE FIBER UP TO SECOND FLOOR EQUIPMENT RACK.
4. EXISTING SIEMENS PANELBOARD 20B, P1 TYPE. USE EXISTING (1) 20A/1P CIRCUIT BREAKER IN POSITION 22.

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

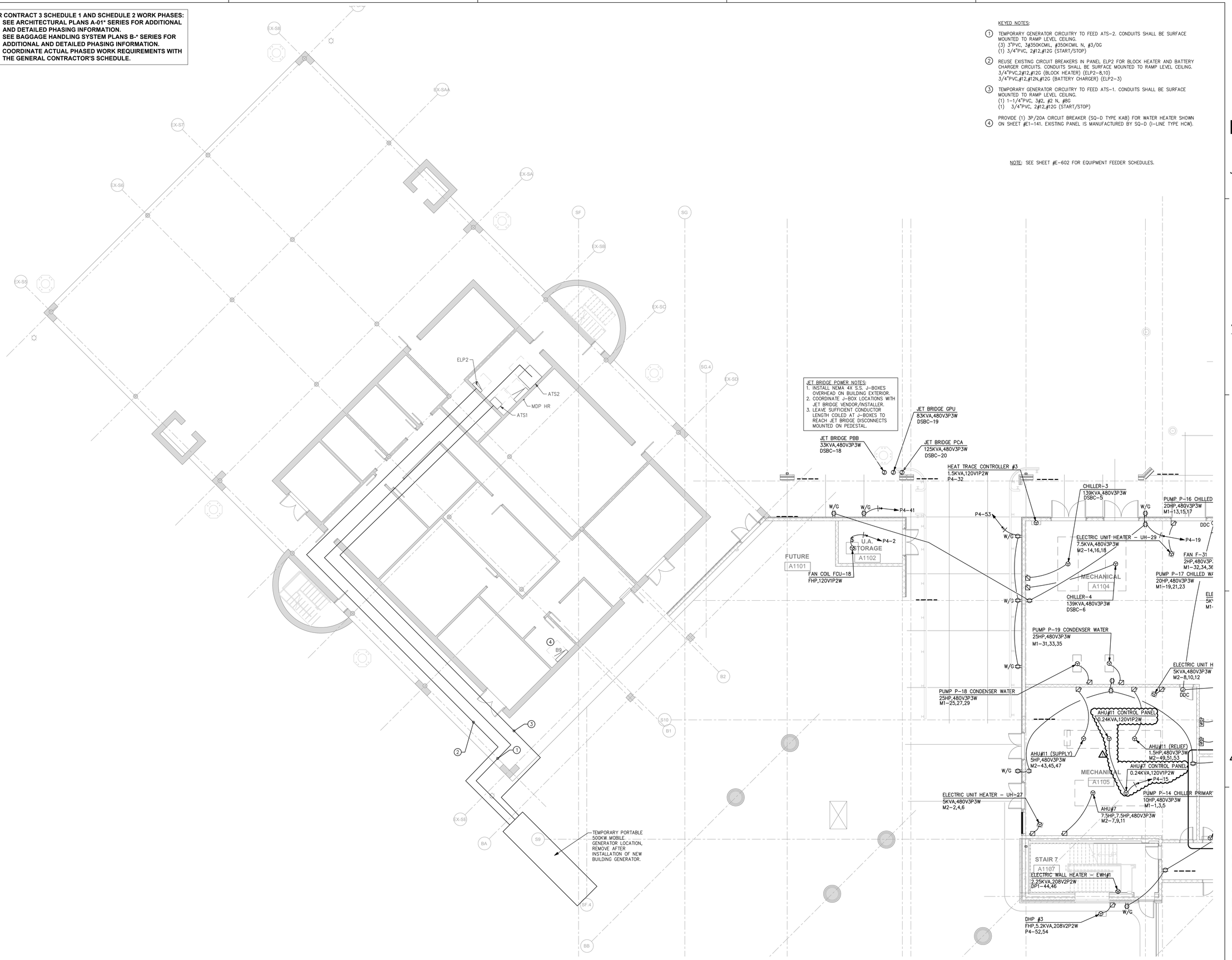
SCHEDULE 1 - ELECTRICAL SITE PLAN

SHEET NUMBER

E1-109

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



KEYED NOTES:

1. TEMPORARY GENERATOR CIRCUITRY TO FEED ATS-2. CONDUITS SHALL BE SURFACE MOUNTED TO RAMP LEVEL CEILING.
   (3) 3"PVC, 3#350KCMIL, #350KCMIL N, #3/0G
   (1) 3/4"PVC, 2#12,#12G (START/STOP)
2. REUSE EXISTING CIRCUIT BREAKERS IN PANEL ELP2 FOR BLOCK HEATER AND BATTERY CHARGER CIRCUITS. CONDUITS SHALL BE SURFACE MOUNTED TO RAMP LEVEL CEILING.
   3/4"PVC,2#12,#12G (BLOCK HEATER) (ELP2-8,10)
   3/4"PVC,#12,#12N,#12G (BATTERY CHARGER) (ELP2-3)
3. TEMPORARY GENERATOR CIRCUITRY TO FEED ATS-1. CONDUITS SHALL BE SURFACE MOUNTED TO RAMP LEVEL CEILING.
   (1) 1-1/4"PVC, 3#2, #2 N, #8G
   (1) 3/4"PVC, 2#12,#12G (START/STOP)
4. PROVIDE (1) 3P/20A CIRCUIT BREAKER (SQ-D TYPE KAB) FOR WATER HEATER SHOWN ON SHEET #E1-141. EXISTING PANEL IS MANUFACTURED BY SQ-D (I-LINE TYPE HCW).

NOTE: SEE SHEET #E-602 FOR EQUIPMENT FEEDER SCHEDULES.

1 E1-111 SCHEDULE 1 – ELECTRICAL RAMP LEVEL – POWER PLAN – ZONE 1
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

TRUE NORTH

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

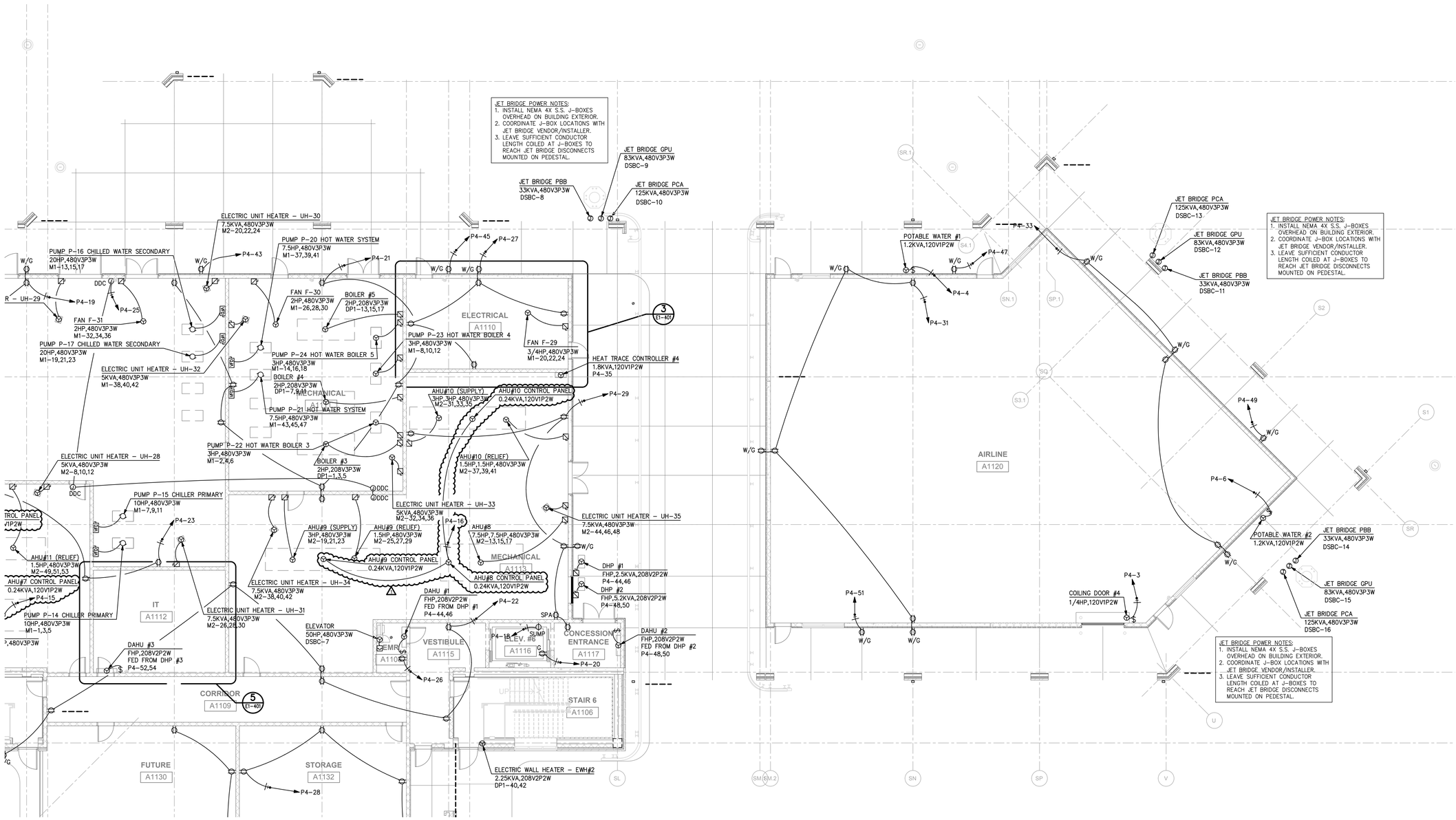
SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1

SHEET NUMBER

E1-111

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



1 E1-112 SCHEDULE 1 – ELECTRICAL RAMP LEVEL – POWER PLAN – ZONE 2
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0" (0 2 4 8 16)

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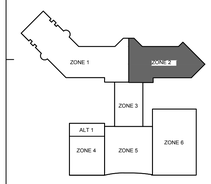


KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 2

SHEET NUMBER

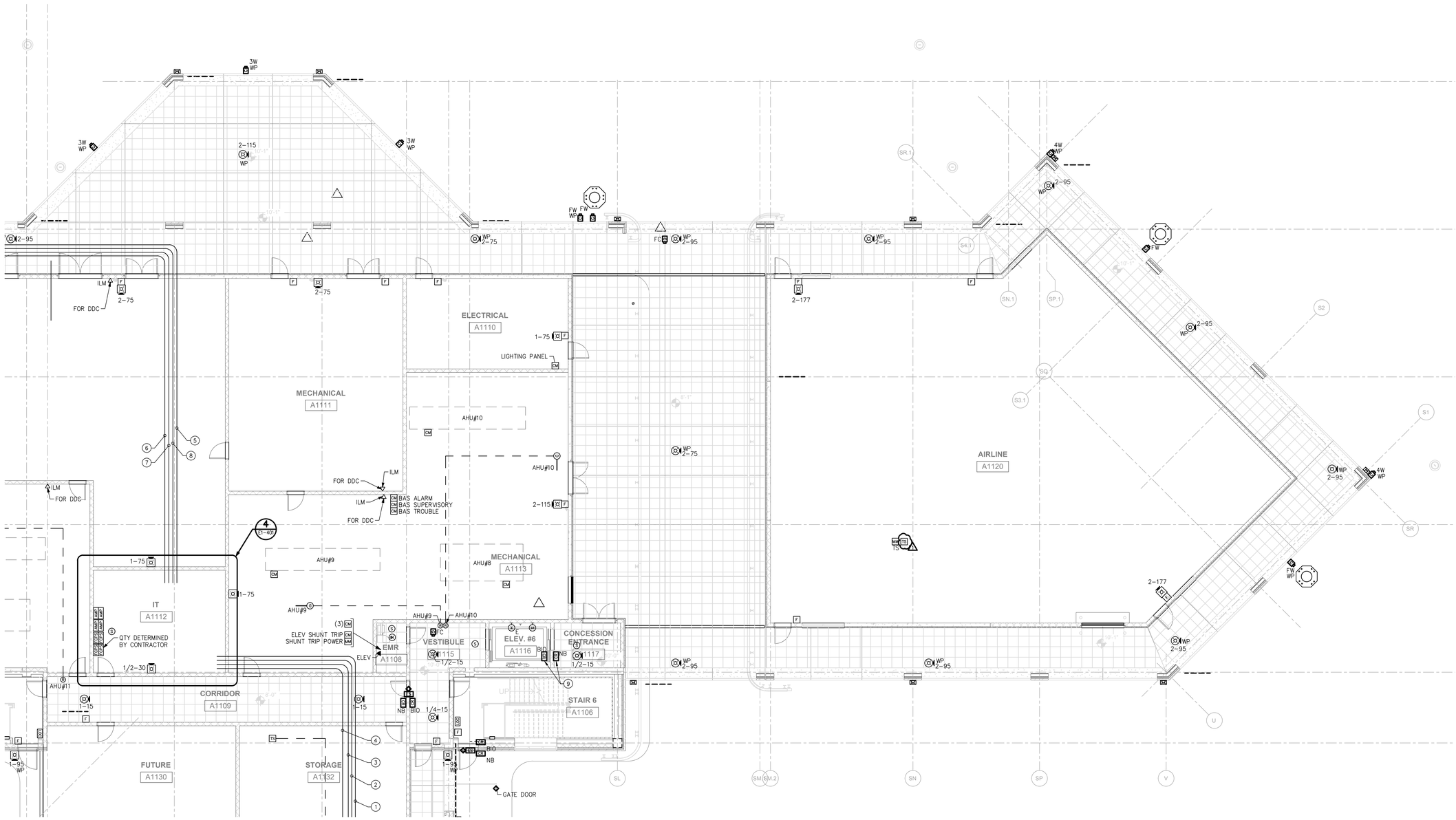
E1-112

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

KEYED NOTES:

1. AMERICAN AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM COMM. 180 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
2. DELTA AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM TEL/COMM. 188 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
3. UNITED AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM STORAGE/IT 196 LOCATED ON TICKET LEVEL TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
4. ILM FIBER OPTIC CABLE IN CONDUIT FROM EXISTING IT EQUIPMENT IN RAMP LEVEL BUILDING MANAGEMENT ROOM TO NEW DATA ROOM LOCATED ON RAMP LEVEL E1-132.
5. AMERICAN AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM NEW DATA ROOM LOCATED TO EXISTING IT RACK LOCATED ON E1-131.
6. DELTA AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM NEW DATA ROOM TO EXISTING IT RACK LOCATED ON E1-131.
7. UNITED AIRLINES FIBER OPTIC CABLE IN CONDUIT FROM NEW DATA ROOM TO EXISTING IT RACK LOCATED ON E1-131.
8. ILM CAMERA FIBER OPTIC CABLE IN CONDUIT AND (2) 100-PAIR COPPER FROM NEW DATA ROOM TO EXISTING IT RACK LOCATED ON E1-131.
9. INTERFACE ACCESS CONTROL SYSTEM WITH ELEVATOR DOOR CONTROL.



1 E1-132 SCHEDULE 1 – ELECTRICAL RAMP LEVEL – AUXILIARY SYSTEMS PLAN – ZONE 2
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0" (0 2 4 8 16)

TRUE NORTH

ILM

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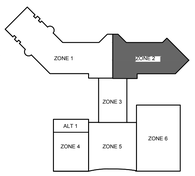


KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

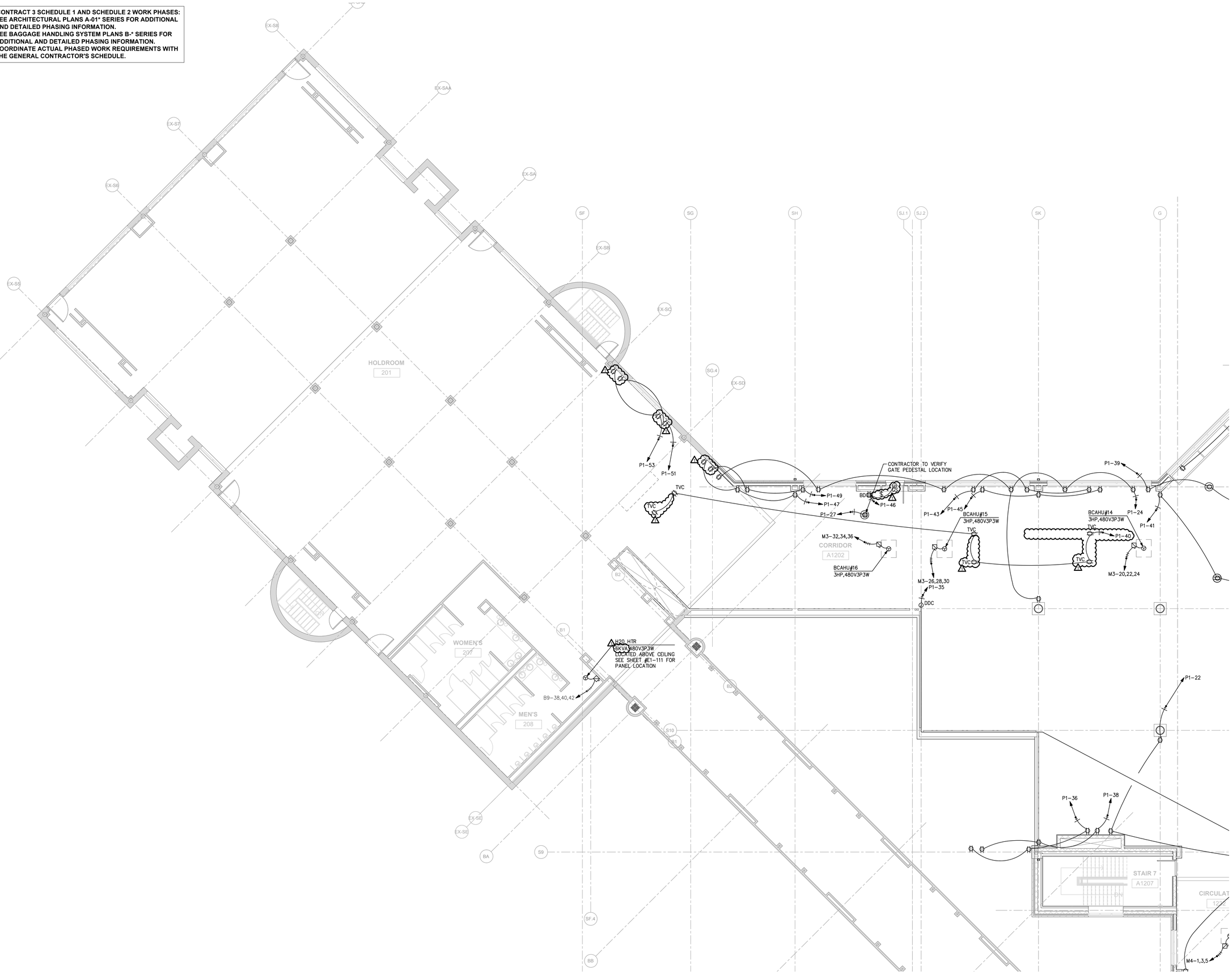
SCHEDULE 1 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 2

SHEET NUMBER

E1-132

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



1 E1-141 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL – POWER PLAN – ZONE 1
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

TRUE NORTH

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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JOB # 19005

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17000 MARK A. CIARROCCA 7/26/19

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LS3P

STRUCTURAL ENGINEER
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CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
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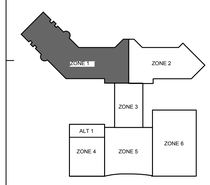
SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM



KEY PLAN

REVISIONS

1 AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1

SHEET NUMBER

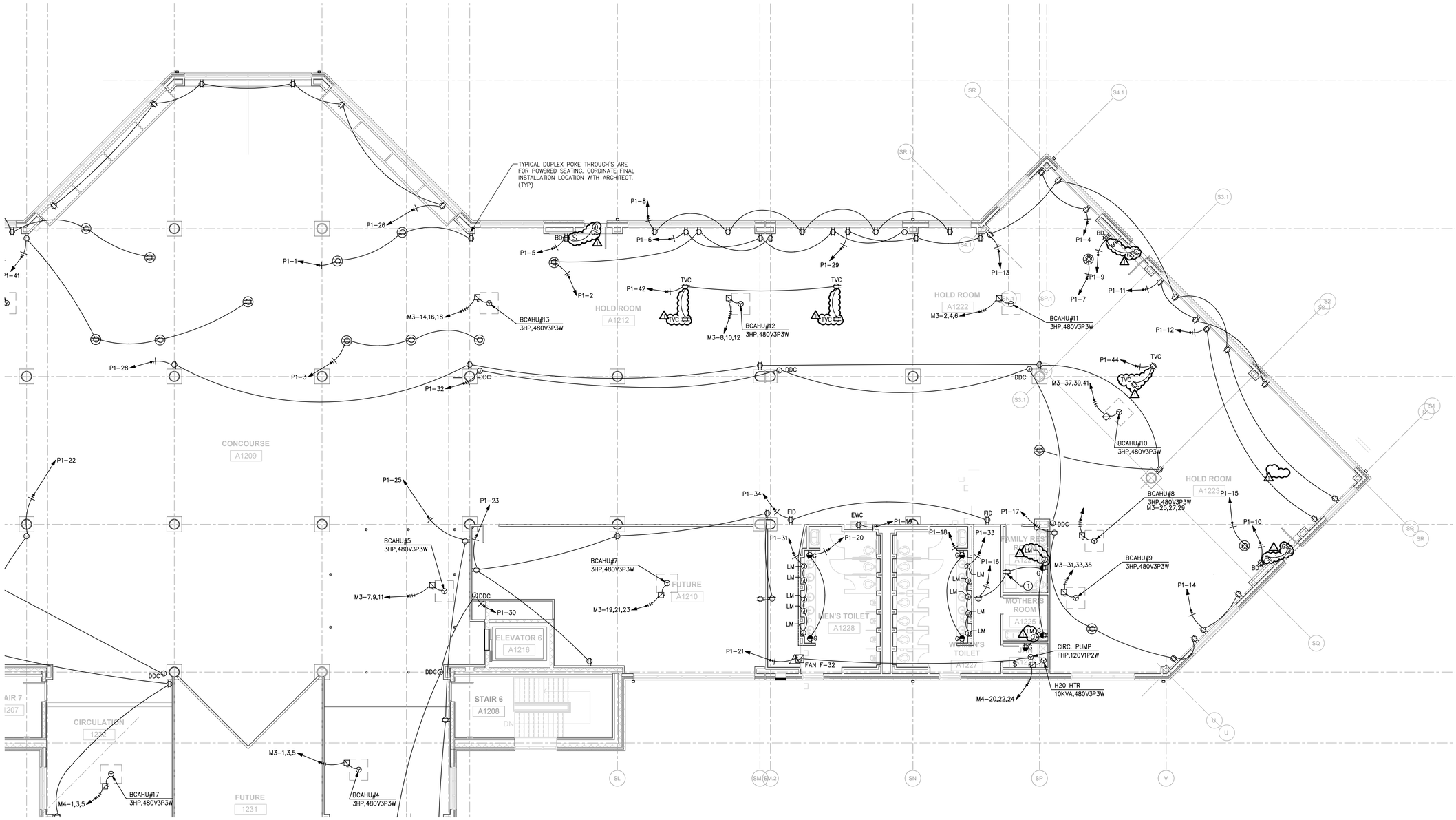
E1-141

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

KEYED NOTES:

1. OUTLET FOR ADULT CHANGING TABLE. MOUNTING HEIGHT IS 5-1/8" TO TOP OF OUTLET AFF. COORDINATE EXACT LOCATION WITH EQUIPMENT VENDOR.



1 E1-142 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL – POWER PLAN – ZONE 2
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1"=1'-0" (0 2 4 8 16)

TRUE NORTH

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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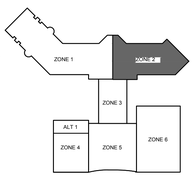
TAKEFORM



KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2

SHEET NUMBER

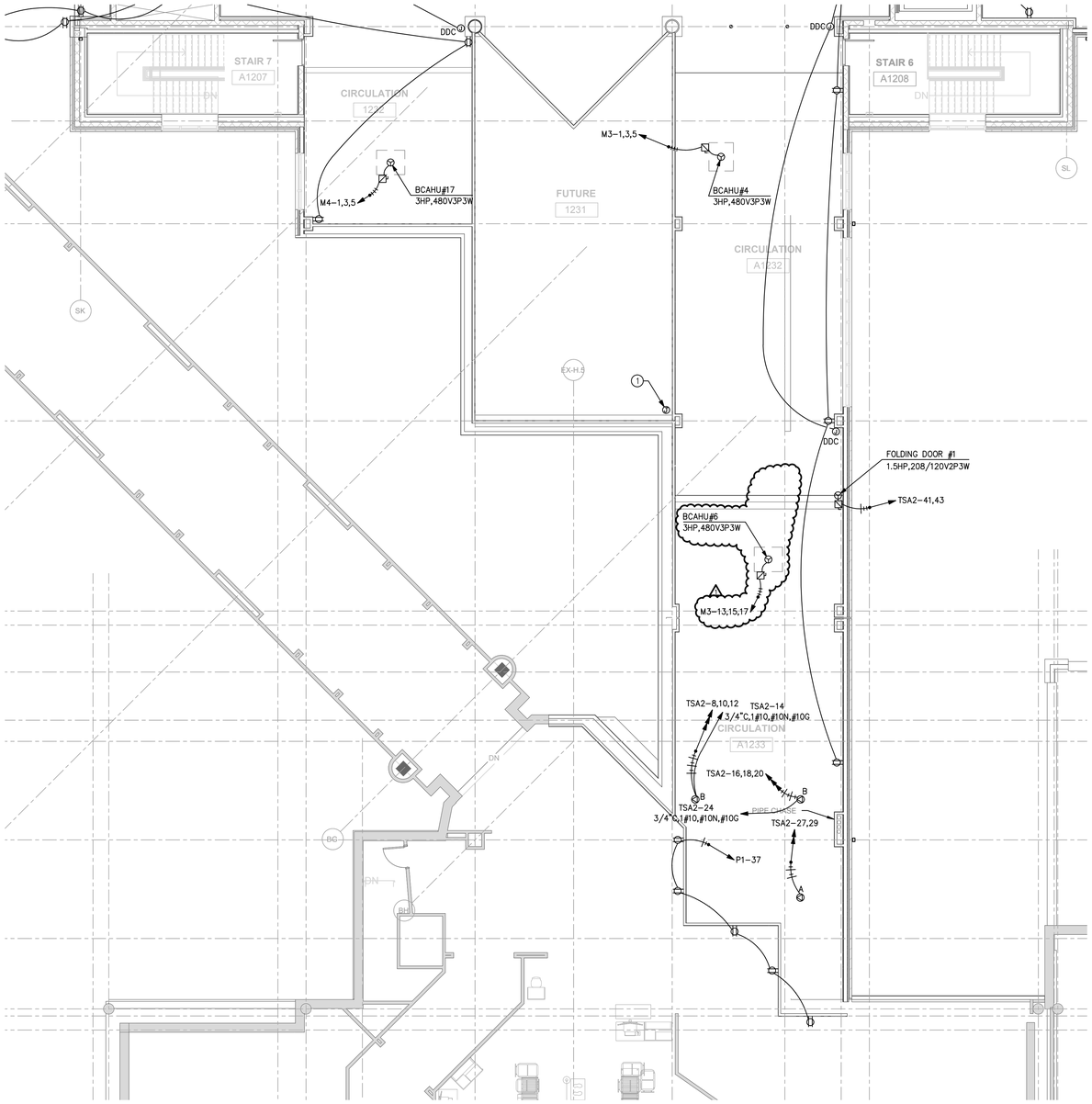
E1-142

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

KEYED NOTES:

1. JUNCTION BOX FOR FUTURE RESTAURANT POWER. 1 1/2"C,3#1,1 N,#6G TO LOCATED IN EXISTING ELECTRICAL ROOM A5 (DSBA-5) LOCATED ON RAMP LEVEL. SEE E1-401 FOR LOCATION.



1 / E1-143 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL – POWER PLAN – ZONE 3
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0" (0 2 4 8 16)

TRUE NORTH

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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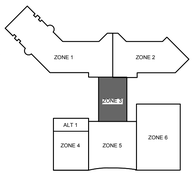


KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3

SHEET NUMBER

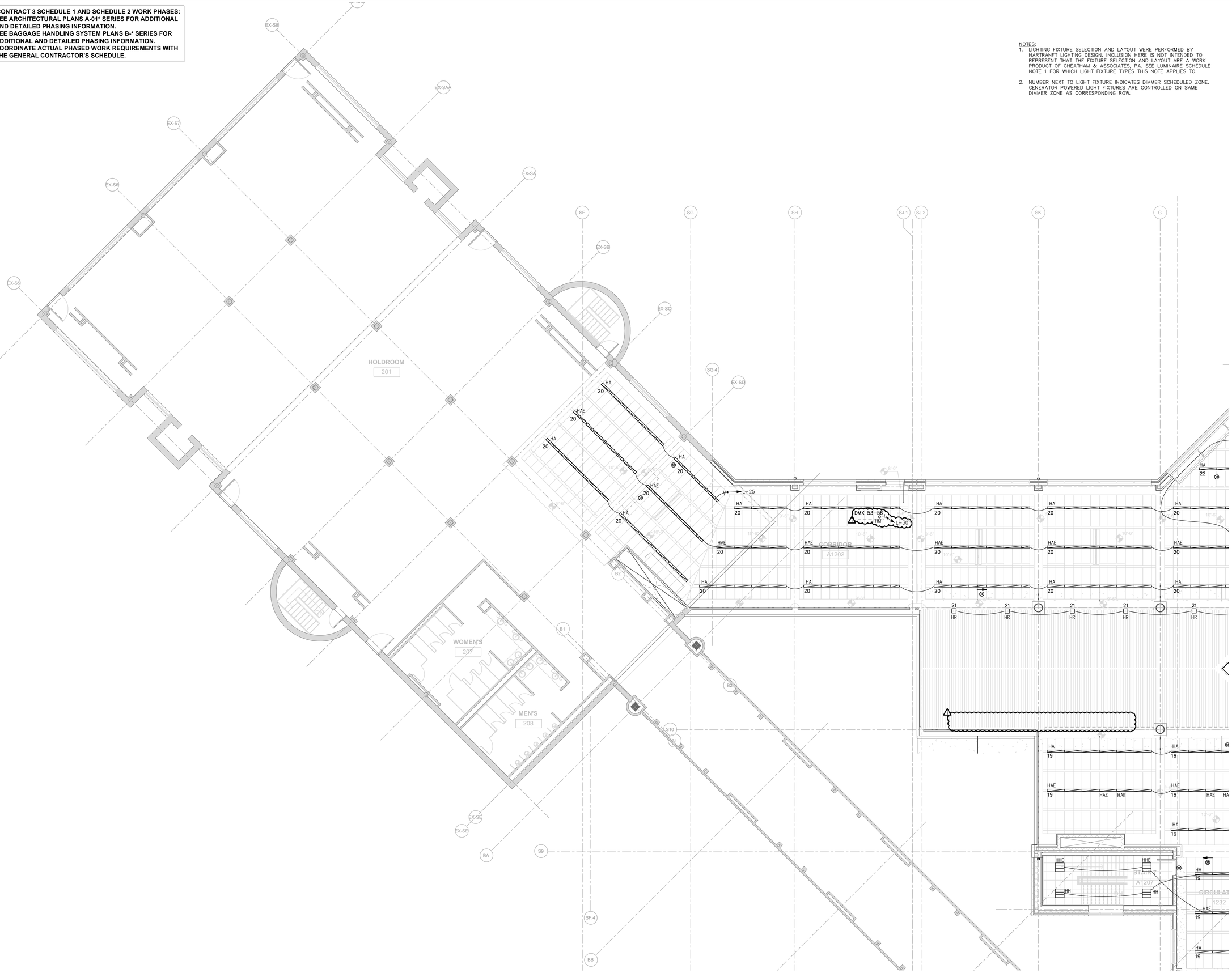
E1-143

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

NOTES:

1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE PERFORMED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, P.A. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.
2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE. GENERATOR POWERED LIGHT FIXTURES ARE CONTROLLED ON SAME DIMMER ZONE AS CORRESPONDING ROW.



1 E1-151 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL – LIGHTING PLAN – ZONE 1
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

TRUE NORTH

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 17593 MARK A. CIARROCCHI 28 JUNE 2019

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BNP

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DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

KEY PLAN

REVISIONS

1 AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 1 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1

SHEET NUMBER

E1-151

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

CUPOLA LUMINAIRE SCHEDULE

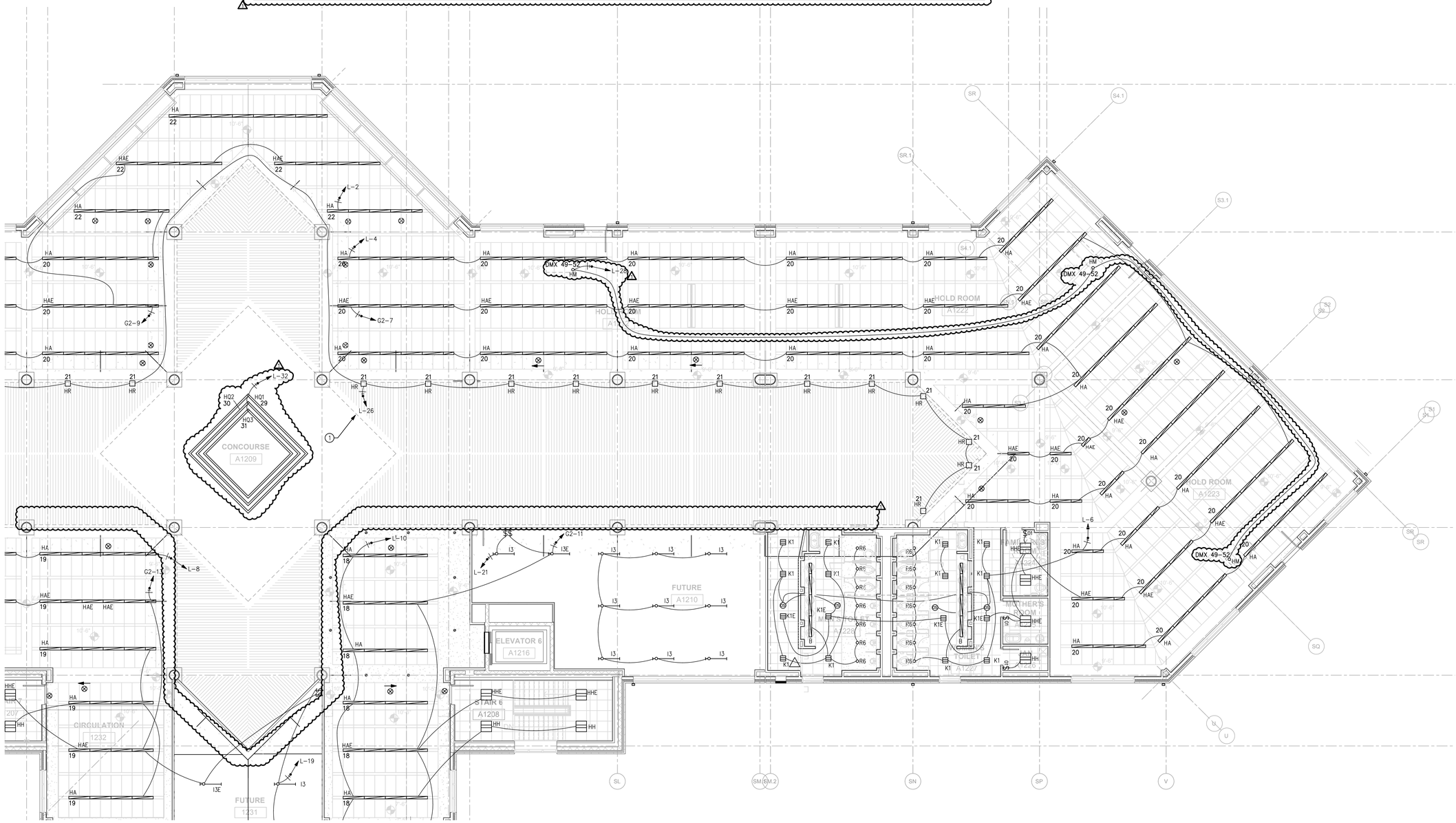
CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	VOLTS	MOUNTING	MANUFACTURER / MODEL	NOTES
HQ1		16" SQUARE PENDANT	(1) 640W LED	LED DIMMABLE DRIVER	277V 1P 2W	CUPOLA	IVICTUS LIGHTING #ICCSD-B3516-1680 MANNING PRE-APPROVED EQUIVALENT BO-MAR INDUSTRIES PRE-APPROVED EQUIVALENT	1000 LUMENS/FT, 3000K COLOR TEMPERATURE, 80 CRI, BRUSHED METAL FINISH. REMOTE LED DRIVER. CONTRACTOR TO INDICATE ON AS-BUILTS MARKUPS LOCATION OF LED REMOVE LED DRIVER. COORDINATE MOUNTING HEIGHT AND ORIENTATION WITH ARCHITECT. SEE NOTE 1.
HQ2		14" SQUARE PENDANT	(1) 560W LED	LED DIMMABLE DRIVER	277V 1P 2W	CUPOLA	IVICTUS LIGHTING #ICCSD-B3516-1680 MANNING PRE-APPROVED EQUIVALENT BO-MAR INDUSTRIES PRE-APPROVED EQUIVALENT	1000 LUMENS/FT, 3000K COLOR TEMPERATURE, 80 CRI, BRUSHED METAL FINISH. REMOTE LED DRIVER. CONTRACTOR TO INDICATE ON AS-BUILTS MARKUPS LOCATION OF LED REMOVE LED DRIVER. COORDINATE MOUNTING HEIGHT AND ORIENTATION WITH ARCHITECT. SEE NOTE 1.
HQ3		12" SQUARE PENDANT	(1) 480W LED	LED DIMMABLE DRIVER	277V 1P 2W	CUPOLA	IVICTUS LIGHTING #ICCSD-B3516-1680 MANNING PRE-APPROVED EQUIVALENT BO-MAR INDUSTRIES PRE-APPROVED EQUIVALENT	1000 LUMENS/FT, 3000K COLOR TEMPERATURE, 80 CRI, BRUSHED METAL FINISH. REMOTE LED DRIVER. CONTRACTOR TO INDICATE ON AS-BUILTS MARKUPS LOCATION OF LED REMOVE LED DRIVER. COORDINATE MOUNTING HEIGHT AND ORIENTATION WITH ARCHITECT. SEE NOTE 1.

NOTES:
1. LIGHT FIXTURE SELECTION WAS DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA.

NOTES:
1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE PERFORMED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.
2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE. GENERATOR POWERED LIGHT FIXTURES ARE CONTROLLED ON SAME DIMMER ZONE AS CORRESPONDING ROW.

KEYED NOTES:

(1) THERE SHALL BE NO VISIBLE CONDUIT RUN THROUGH THIS AREA.



1 E1-152 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL – LIGHTING PLAN – ZONE 2
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0" (0 2 4 8 16)

TRUE NORTH

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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JOB # 19005

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CHEATHAM & ASSOC.

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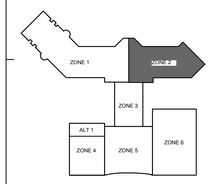
SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM



KEY PLAN

REVISIONS

AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

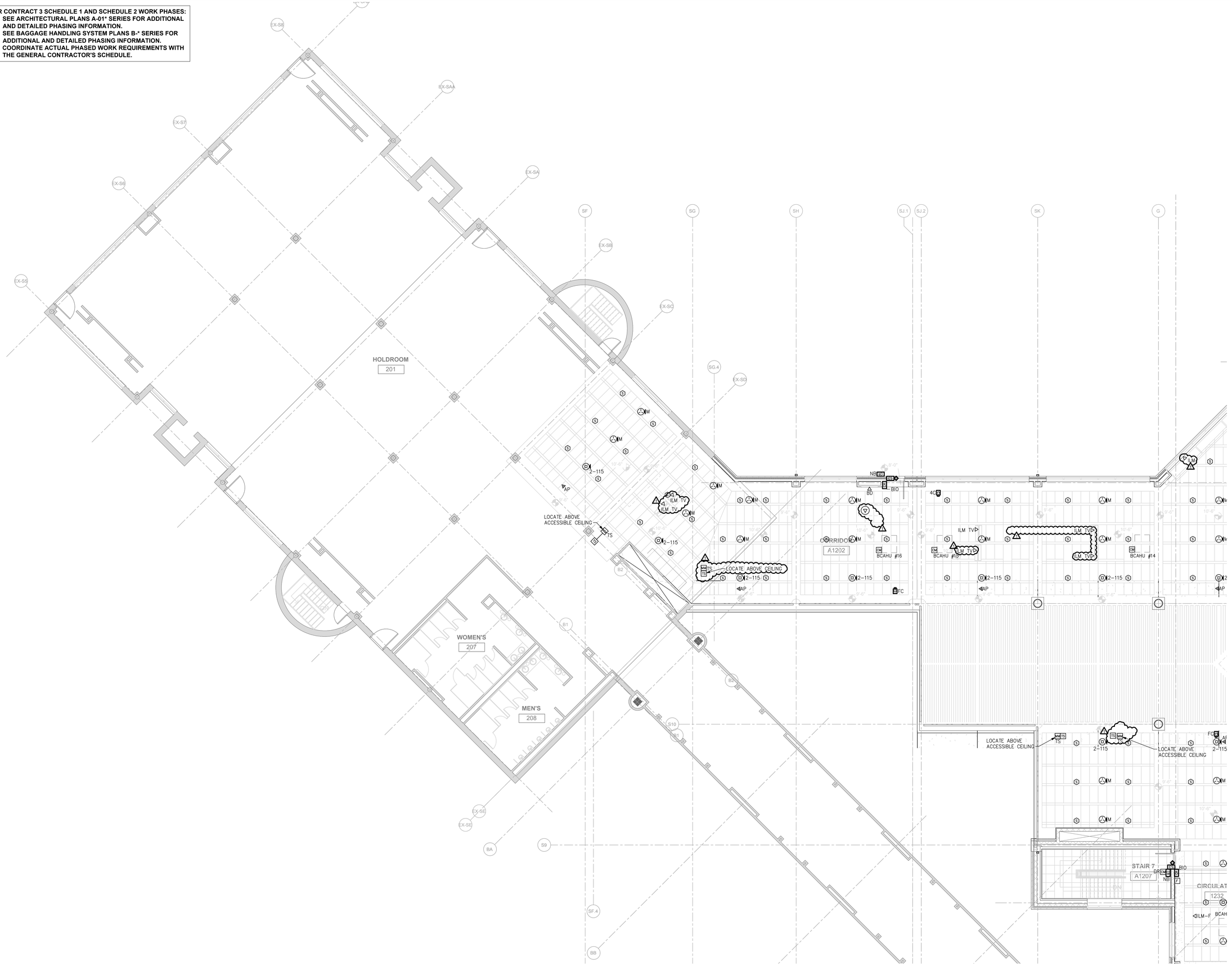
SCHEDULE 1 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 2

SHEET NUMBER

E1-152

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



1 E1-161 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL – AUXILIARY SYSTEMS PLAN – ZONE 1
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

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TERMINAL IMPROVEMENTS CONTRACT 3

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KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

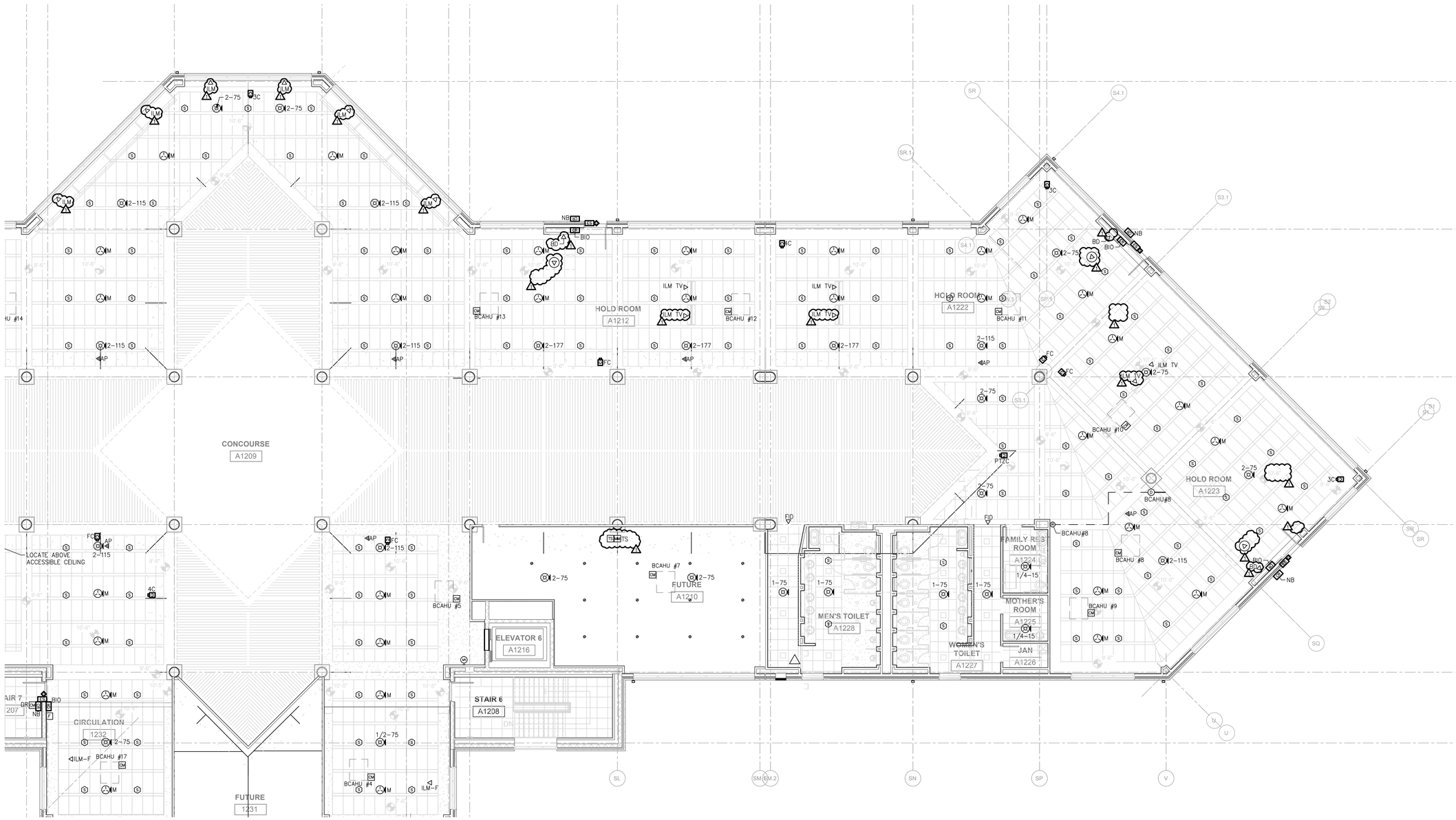
SCHEDULE 1 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 1

SHEET NUMBER

E1-161

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



1 E1-162 SCHEDULE 1 – ELECTRICAL BOARDING LEVEL – AUXILIARY SYSTEMS PLAN – ZONE 2
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0" (0 2 4 8 16)

TRUE NORTH

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KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

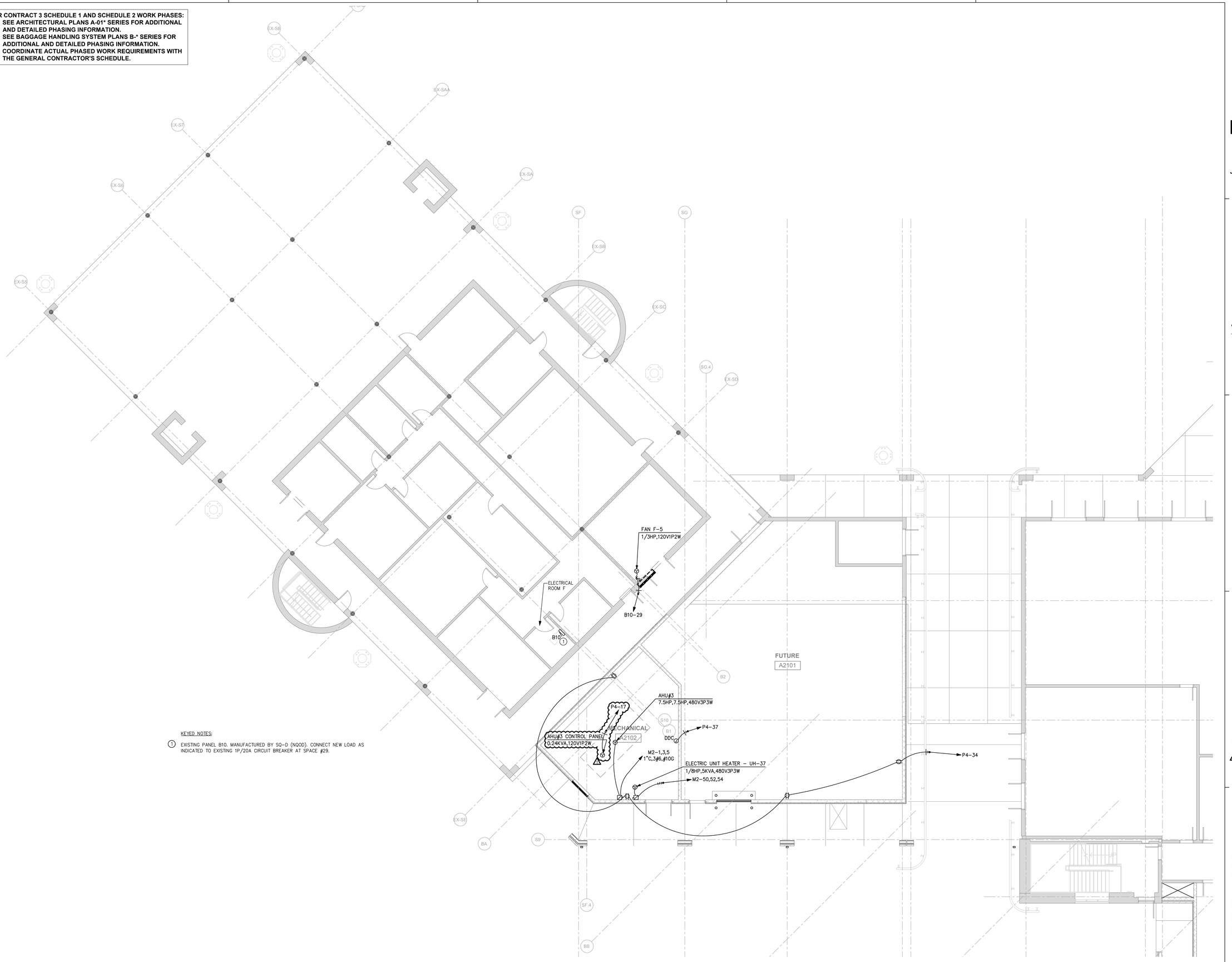
SCHEDULE 1 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 2

SHEET NUMBER

E1-162

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



KEYED NOTES:

1. EXISTING PANEL B10, MANUFACTURED BY SQ-D (NQOD). CONNECT NEW LOAD AS INDICATED TO EXISTING 1P/20A CIRCUIT BREAKER AT SPACE #29.

1 / E2-111 SCHEDULE 2 – ELECTRICAL RAMP LEVEL – POWER PLAN – ZONE 1
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

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KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

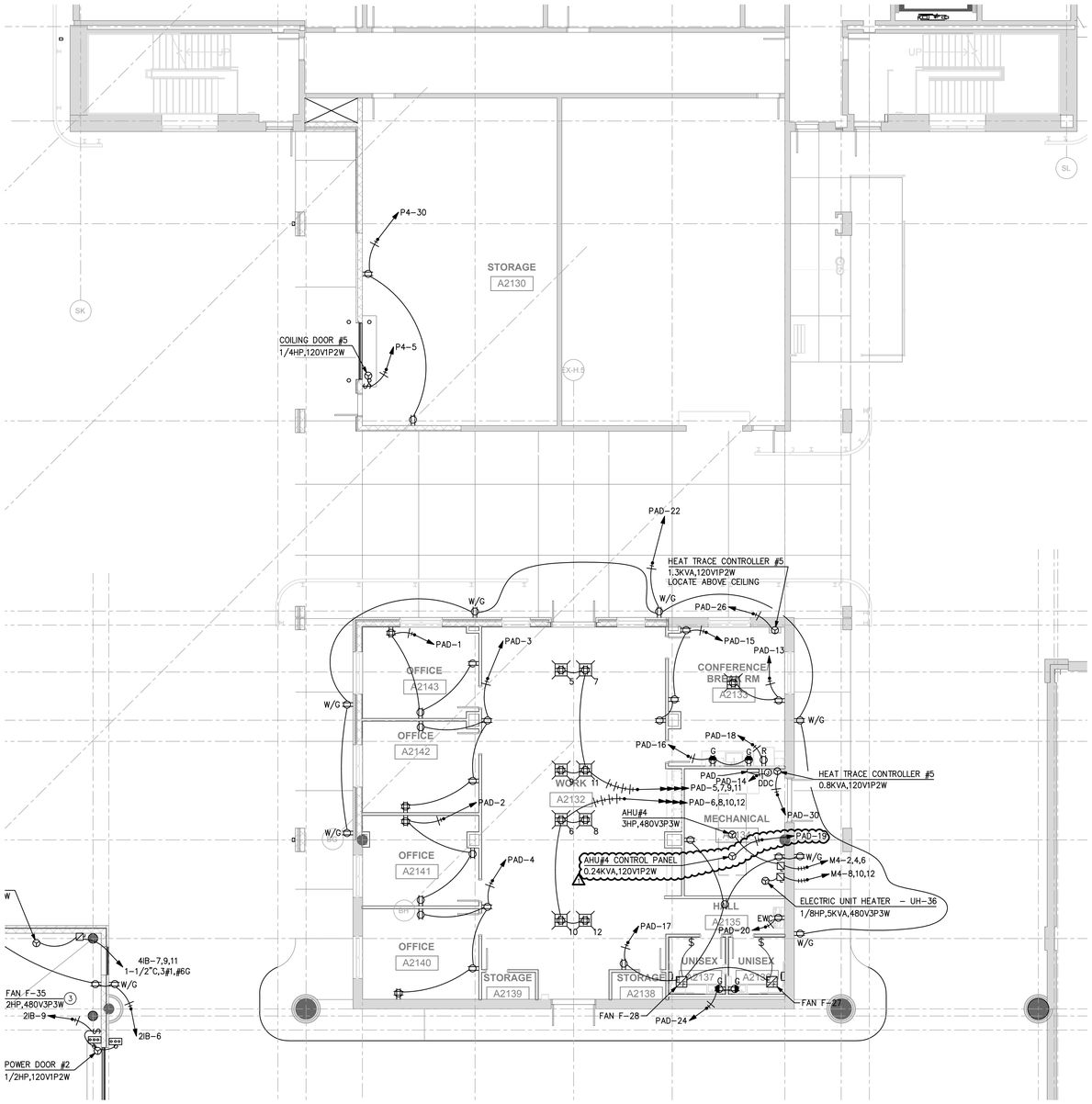
SCHEDULE 2 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 1

SHEET NUMBER

E2-111

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



1 E2-113 SCHEDULE 2 – ELECTRICAL RAMP LEVEL – POWER PLAN – ZONE 3
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

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TERMINAL IMPROVEMENTS CONTRACT 3

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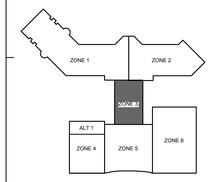


KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

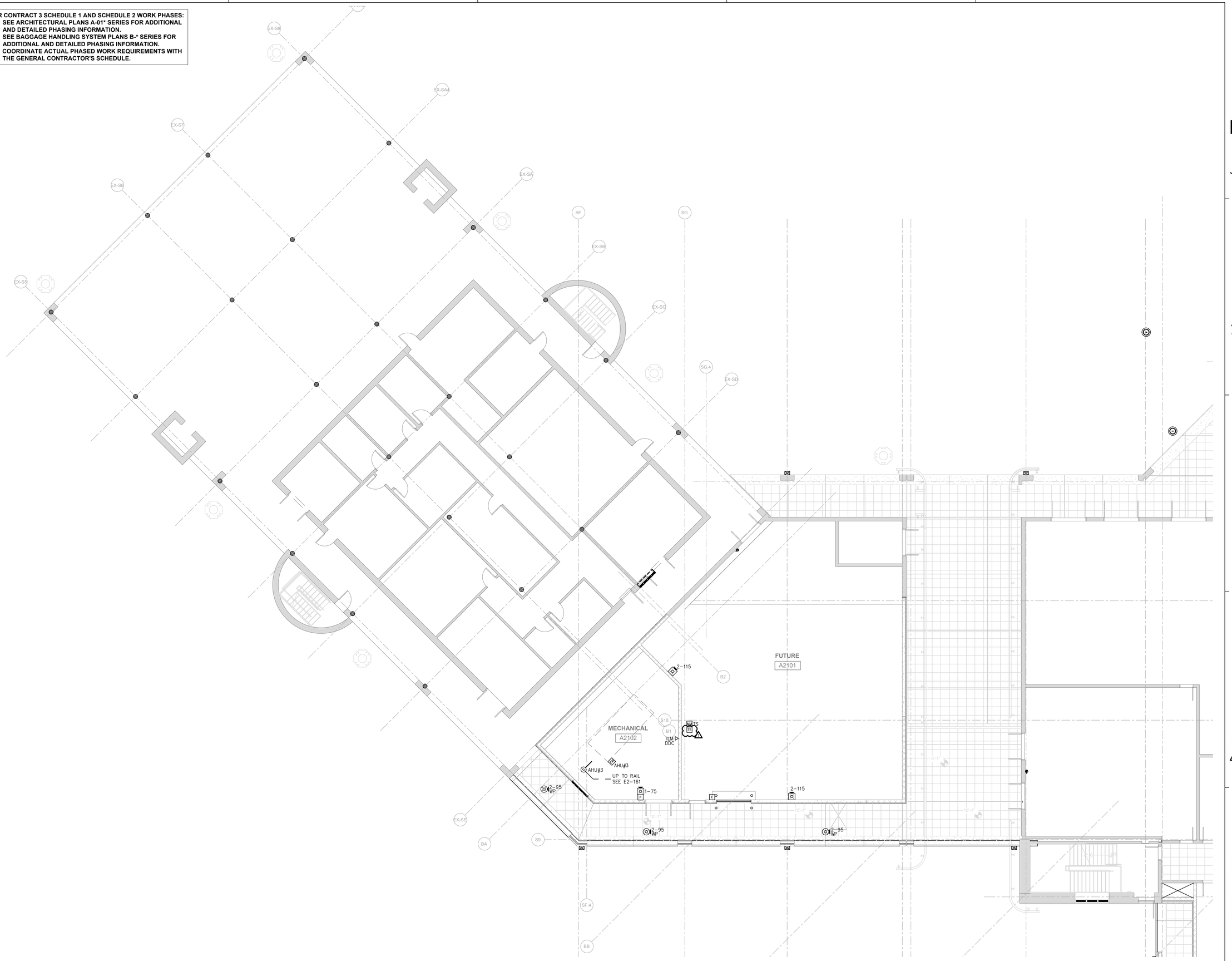
SCHEDULE 2 - ELECTRICAL RAMP LEVEL POWER PLAN ZONE 3

SHEET NUMBER

E2-113

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



1 E2-131 SCHEDULE 2 – ELECTRICAL RAMP LEVEL – AUXILIARY SYSTEMS PLAN – ZONE 1

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

GRAPHIC SCALE: 1/8"=1'-0" (0 2 4 8 16)

TRUE NORTH

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17093 MARK A. CIABROCCA 16 JULY 2019

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KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

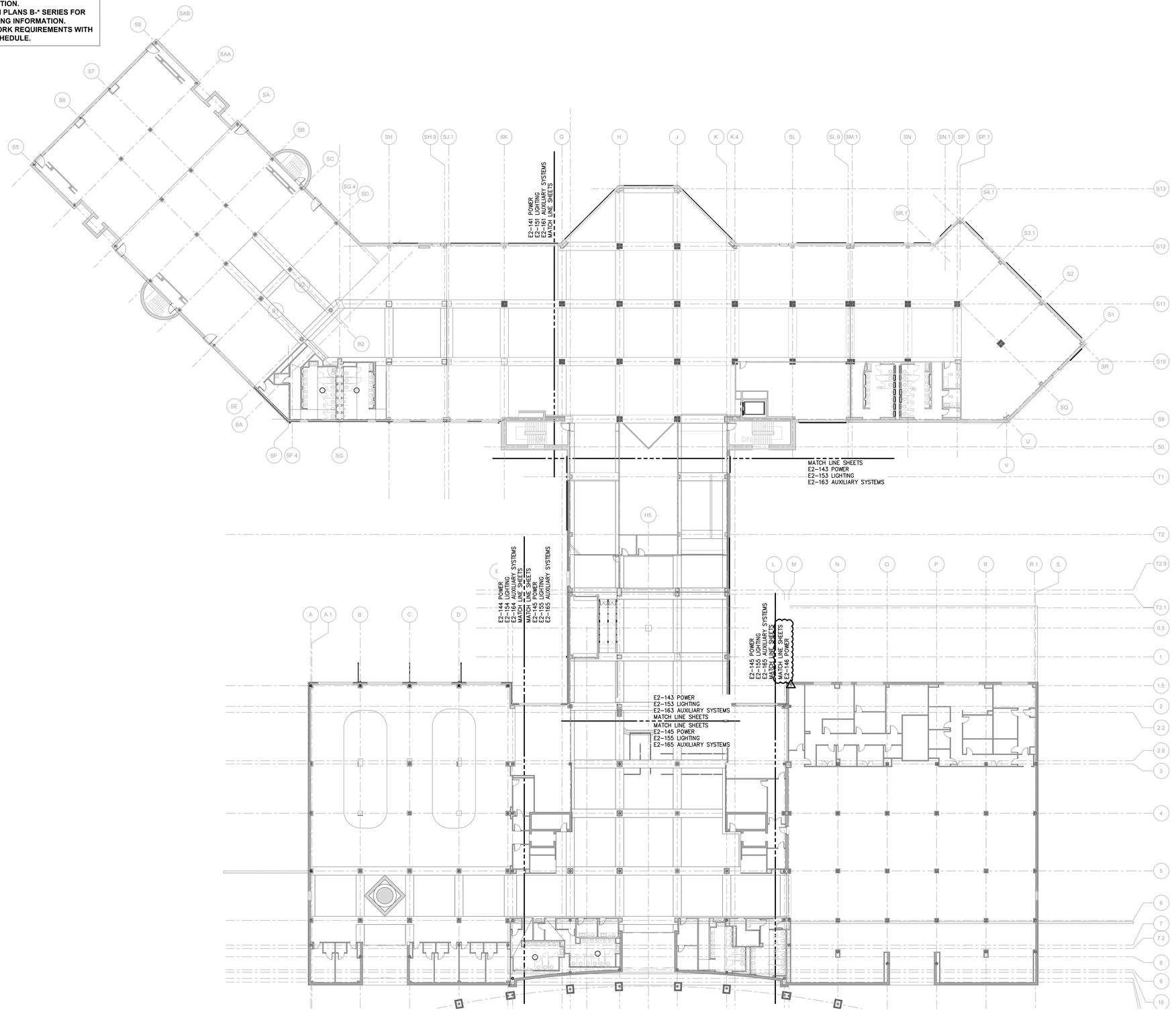
SCHEDULE 2 - ELECTRICAL RAMP LEVEL AUXILIARY SYSTEMS PLAN ZONE 1

SHEET NUMBER

E2-131

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



1 E2-140 SCHEDULE 2 – ELECTRICAL BOARDING/TICKET LEVEL – OVERALL PLAN
SCALE: 1" = 20'

GRAPHIC SCALE: 1"=20'
0 5 10 20 40
TRUE NORTH

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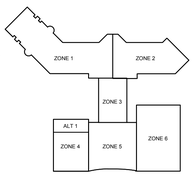

KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - ELECTRICAL BOARDING/TICKET LEVEL OVERALL PLAN

SHEET NUMBER

E2-140

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
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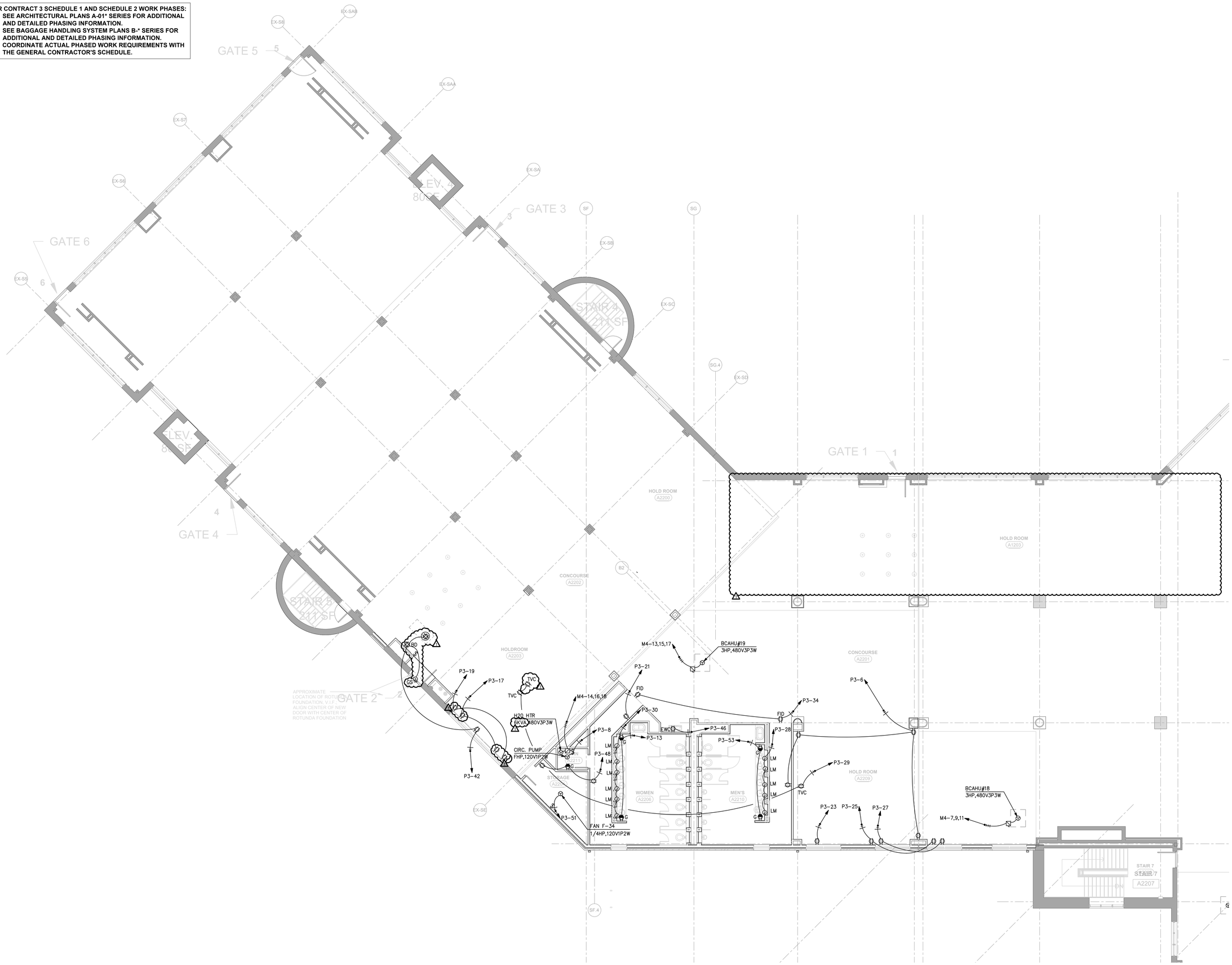

1 / E2-141 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – POWER PLAN – ZONE 1
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17993 MARK A. CIABROCCA 7th JULY 2006

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TAKEFORM

KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

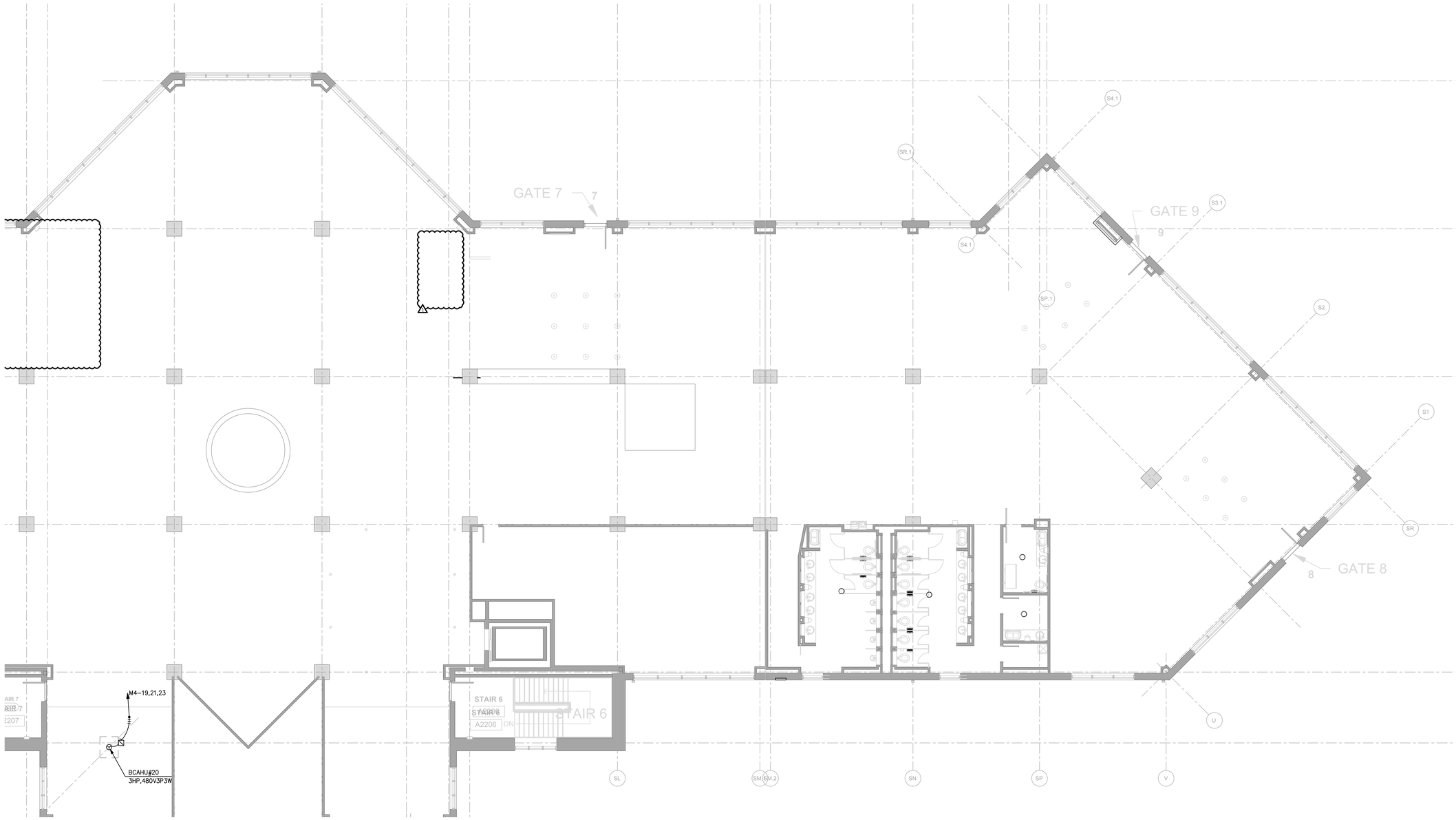
SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 1

SHEET NUMBER

E2-141

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



1 E2-142 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – POWER PLAN – ZONE 2
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1" = 1'-0" (0 2 4 8 16)

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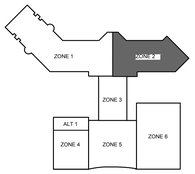


KEY PLAN

REVISIONS

⚠ AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

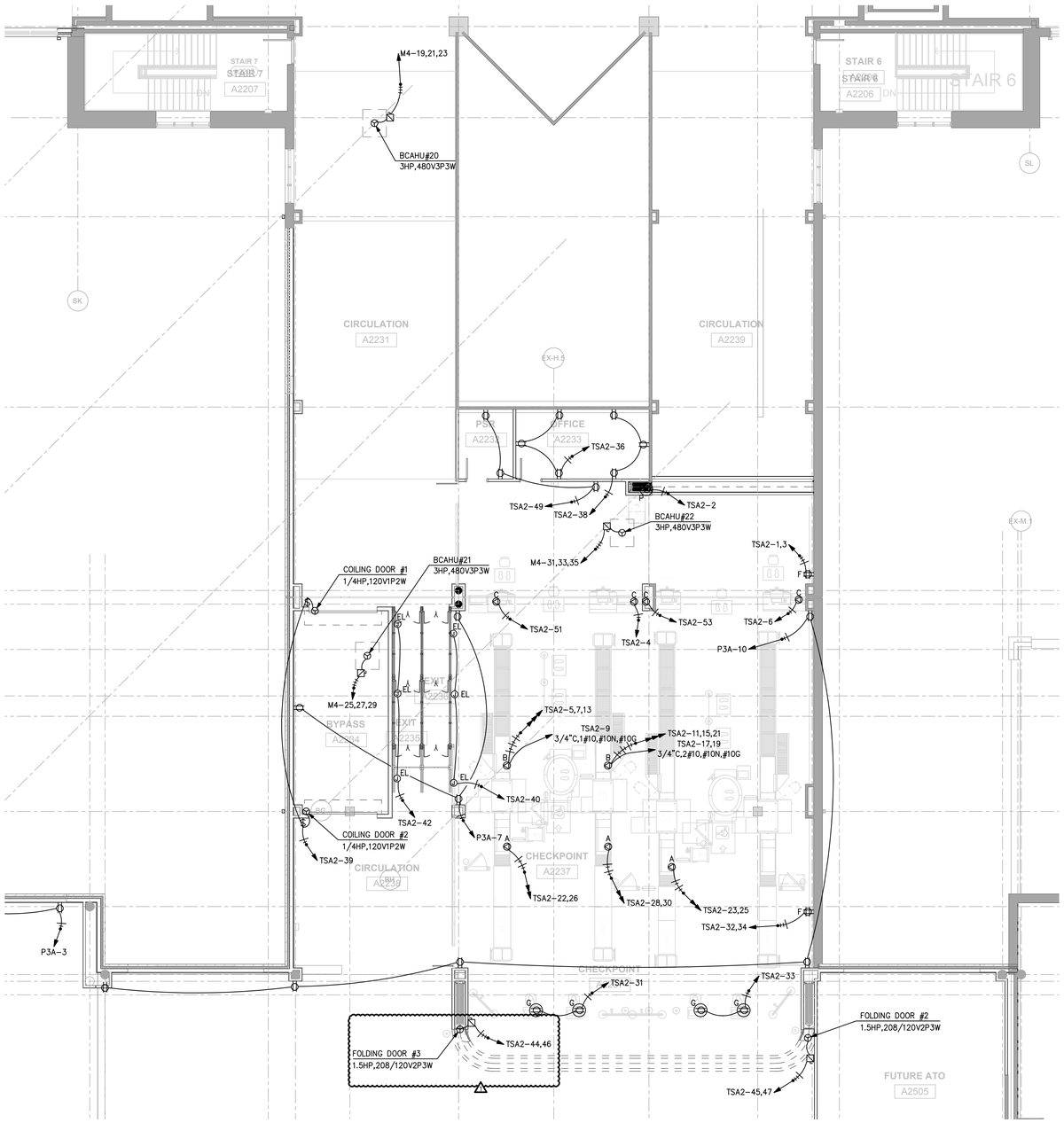
SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 2

SHEET NUMBER

E2-142

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



GENERAL NOTE:

PANEL TSA2 IS LOCATED ON LOWER RAMP LEVEL. SEE SHEET #E1–115.

1 E2–143 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – POWER PLAN – ZONE 3
SCALE: 1/8" = 1'–0"

GRAPHIC SCALE: 1"=1'–0"
0 2 4 8 16

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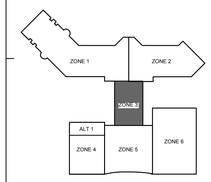


KEY PLAN

REVISIONS

1	AD–03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

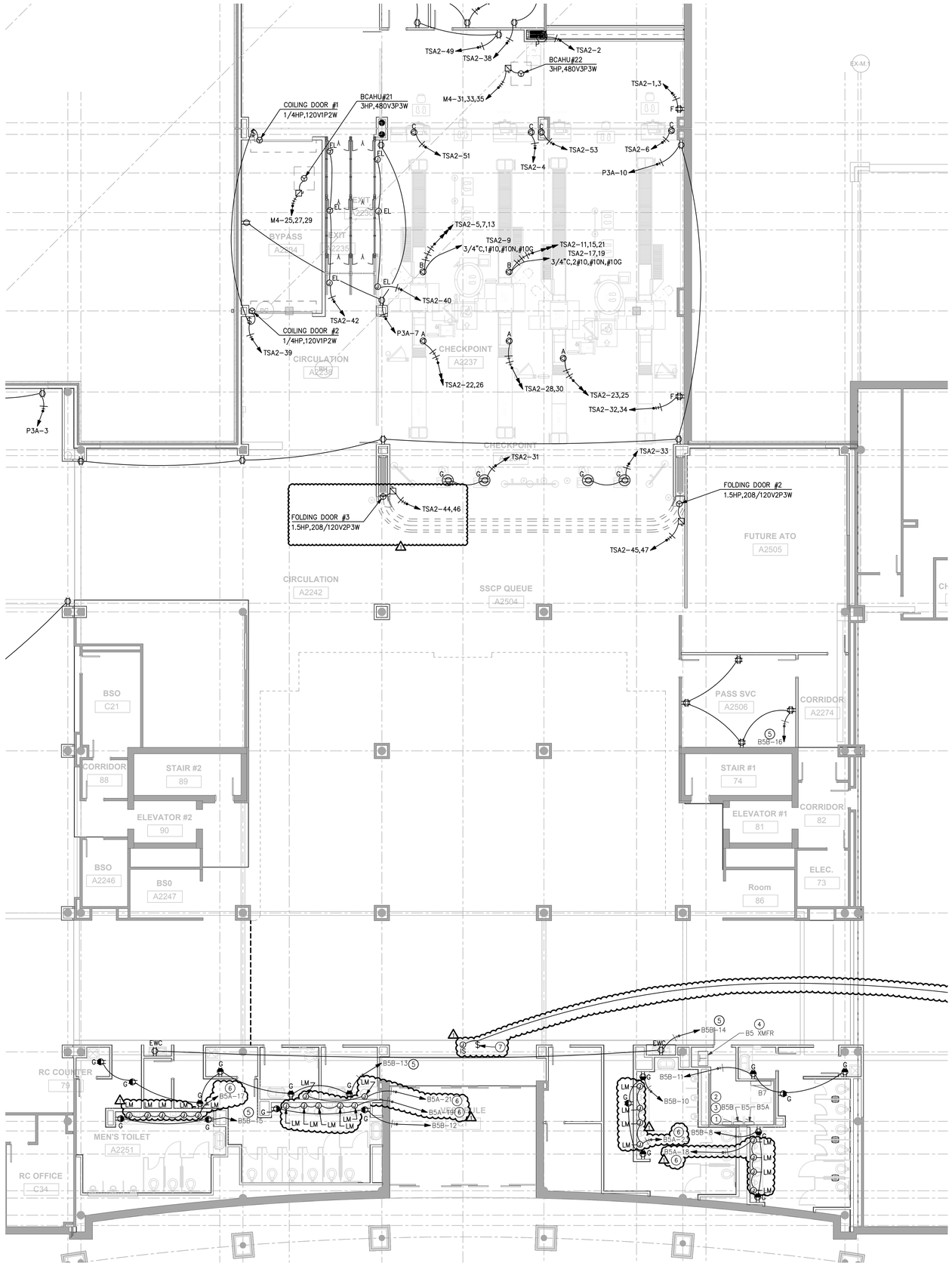
SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 3

SHEET NUMBER

E2-143

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



KEYED NOTES:

1. EXISTING PANEL B5B. MANUFACTURED BY GE (A SERIES TYPE).
2. EXISTING CIRCUIT BREAKERS AVAIABLE IN PANEL B5B.
3. PROVIDE (1) 20A/1P CIRCUIT BREAKER (GFCI TYPE) FOR LOAD INDICATED (CIRCUIT #14).
4. RELOCATED TRANSFORMER B5. INSTALL NEW CIRCUITRY TO PRIMARY AND SECONDARY SIDE OF TRANSFORMER. SEE RISER FOR CIRCUITRY INFORMATION.
5. PROVIDE 20A/1P CIRCUIT BREAKER FOR PANEL INDICATED.
6. UTILIZE SPARE CIRCUIT BREAKER IN PANEL INDICATED. IF SPARE CIRCUIT BREAKER USED IS DIFFERENT THAN INDICATED, CONTRACTOR SHALL UPDATE MARKUP AS-BUILTS WITH THE CORRECT CIRCUIT NUMBERS.
7. CONCEAL SWITCH AROUND ILLUMINATED SIGN.

1 E2-145 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – POWER PLAN – ZONE 5
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

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TERMINAL IMPROVEMENTS CONTRACT 3

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17993 MICHAEL A. CIARROCCA 26 JULY 2019

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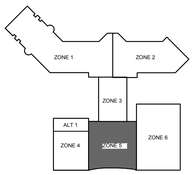

KEY PLAN

REVISIONS

1 AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 5

SHEET NUMBER

E2-145

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

KEYED NOTES:

1. CONCEAL SWITCH AROUND ILLUMINATED SIGN.

1 E2-146 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – POWER PLAN – ZONE 6
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

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JOB # 19005

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17093 MARK A. CIARROCCA 17 JULY 2019

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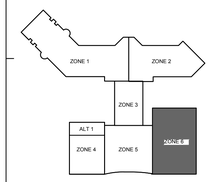

KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - ELECTRICAL BOARDING LEVEL POWER PLAN ZONE 6

SHEET NUMBER

E2-146

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
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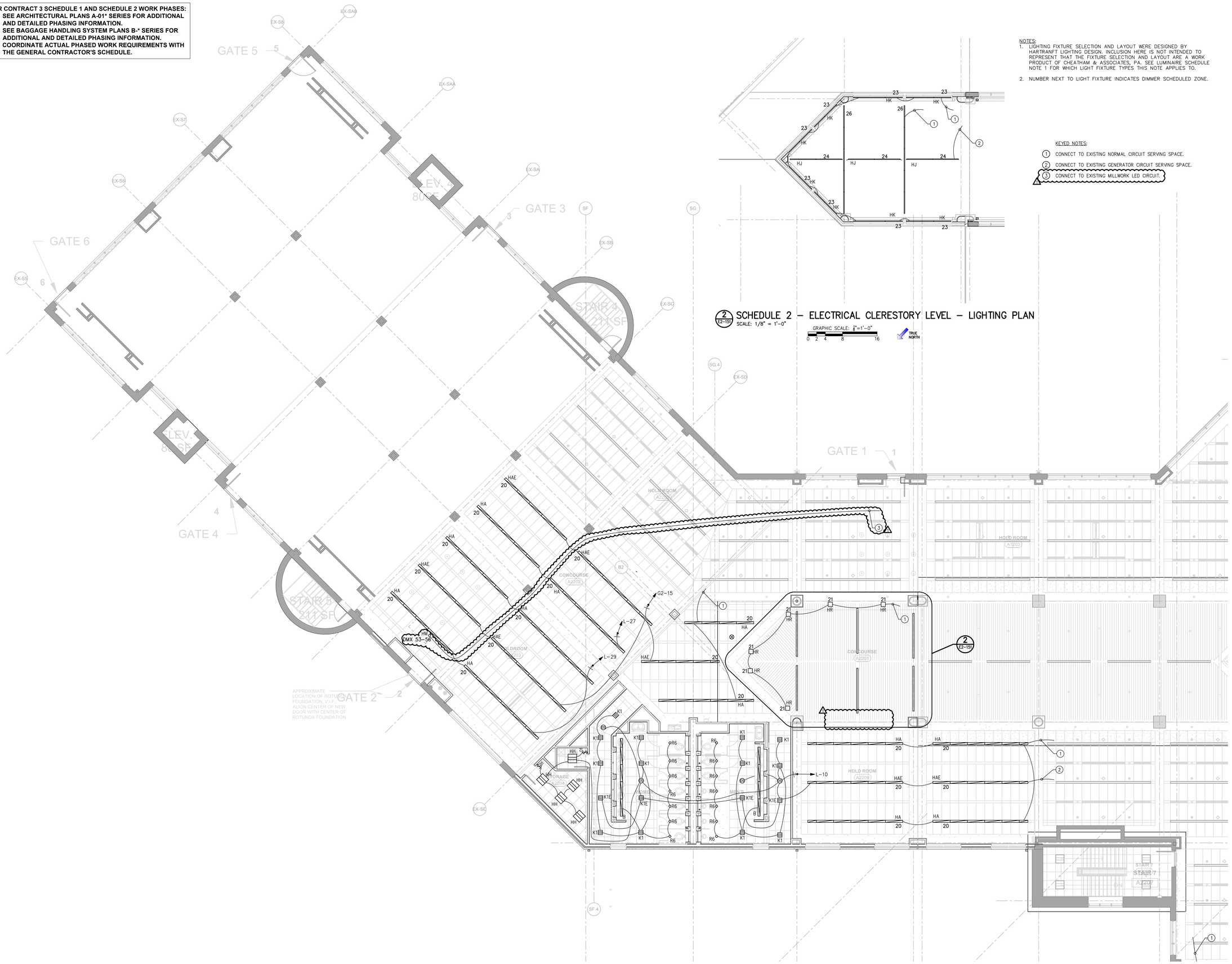

NOTES:
1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, P.A. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.
2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE.

KEYED NOTES:
1. CONNECT TO EXISTING NORMAL CIRCUIT SERVING SPACE.
2. CONNECT TO EXISTING GENERATOR CIRCUIT SERVING SPACE.
3. CONNECT TO EXISTING MILLWORK LED CIRCUIT.

2 E2-151 SCHEDULE 2 – ELECTRICAL CLERESTORY LEVEL – LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0" (0 2 4 8 16)

1 E2-151 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – LIGHTING PLAN – ZONE 1
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0" (0 2 4 8 16)

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JOB # 19005

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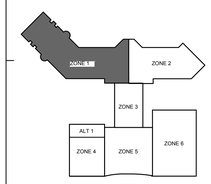

KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 1

SHEET NUMBER

E2-151

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
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NOTES:

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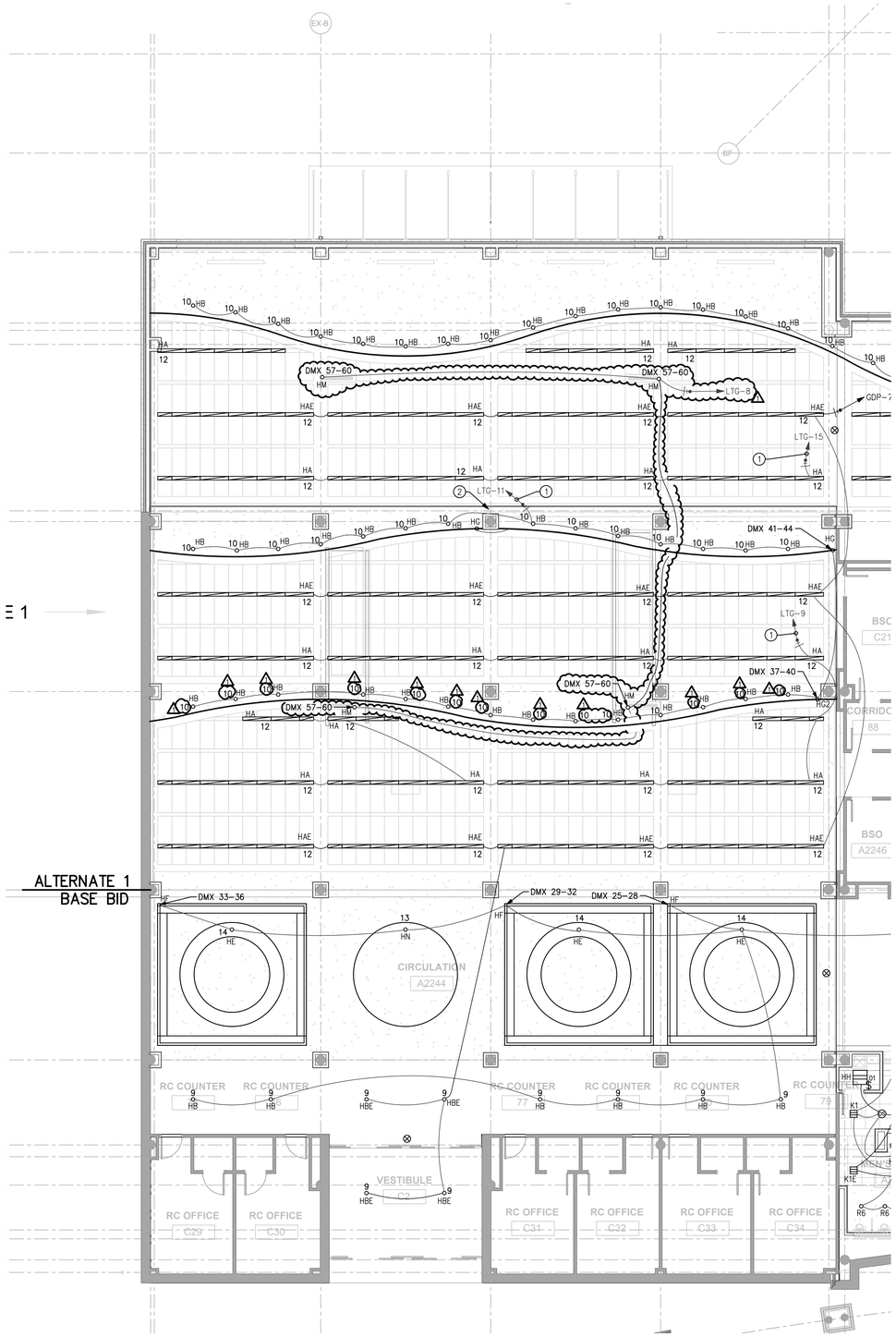
2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE. SEE E2-156.

KEYED NOTES:

1. #10 CONDUCTORS USED FOR BRANCH CIRCUIT INDICATED.
2. PROPOSED LOCATION OF LIGHTING CIRCUIT HOMERUNS TO TRANSITION FROM ABOVE CEILING TO BELOW SLAB FOR CONTINUATION OF HOMERUNS IN RAMP LEVEL CEILING CAVITY TO PANEL LTG LOCATED IN EXISTING TICKETING AREA MECHANICAL ROOM 34. SEE E2-155 FOR LOCATION OF PANEL LTG.



1 E2-154 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – LIGHTING PLAN – ZONE 4
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0" (0 2 4 8 16)

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JOB # 19005

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17502 MARK A. CIARROCCA 31 JULY 2019

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- ARCHITECTS -

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PROJECT MANAGER & CIVIL ENGINEER
TALBERT & BRIGHT

CONSULTING ARCHITECT
LS3P

STRUCTURAL ENGINEER
STEWART

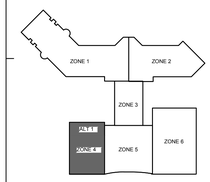
FP/P/M/E ENGINEER
CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
BNP

AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM



KEY PLAN

REVISIONS

1 AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

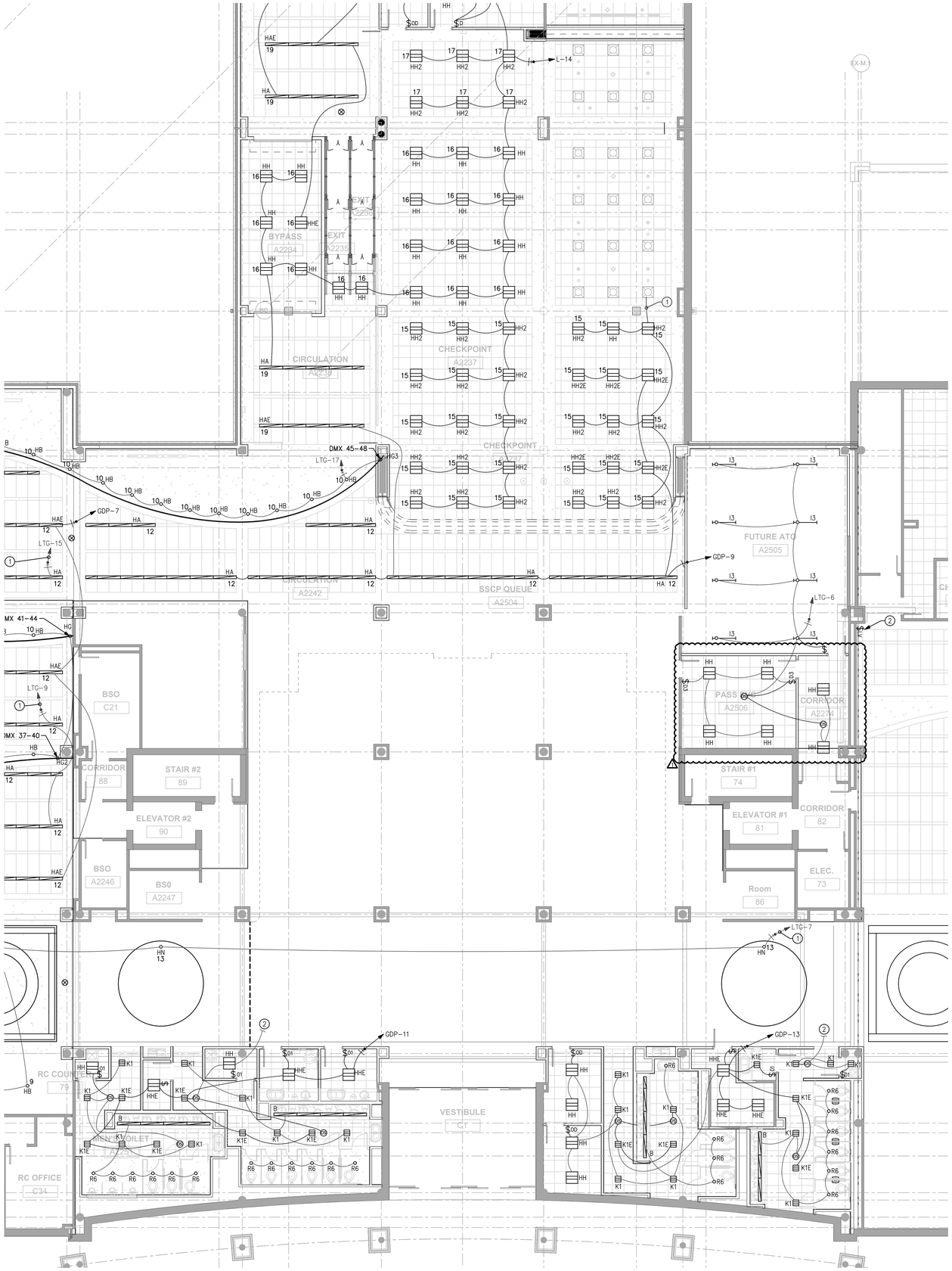
SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 4

SHEET NUMBER

E2-154

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



NOTES:

1. LIGHTING FIXTURE SELECTION AND LAYOUT WERE DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION AND LAYOUT ARE A WORK PRODUCT OF CHEATHAM & ASSOCIATES, P.A. SEE LUMINAIRE SCHEDULE NOTE 1 FOR WHICH LIGHT FIXTURE TYPES THIS NOTE APPLIES TO.
2. NUMBER NEXT TO LIGHT FIXTURE INDICATES DIMMER SCHEDULED ZONE.

KEYED NOTES:

(1) #10 CONDUCTORS USED FOR BRANCH CIRCUIT INDICATED.

(2) CONNECT TO EXISTING CIRCUITS PREVIOUSLY SERVING SPACE.

(1) SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – LIGHTING PLAN – ZONE 5
E2-155 SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

TRUE NORTH

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
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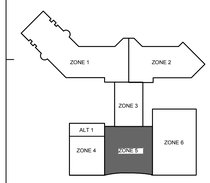


KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

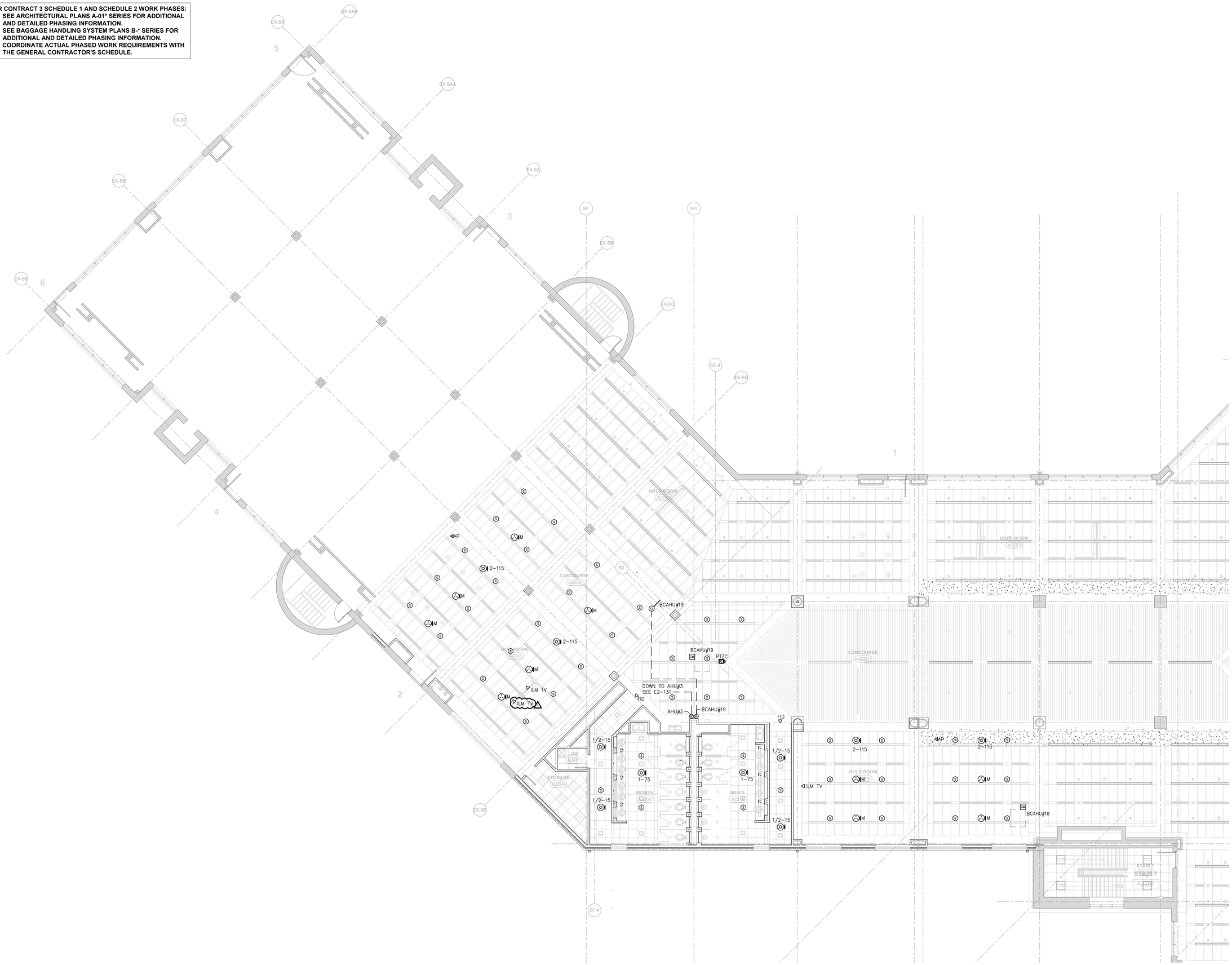
SCHEDULE 2 - ELECTRICAL BOARDING LEVEL LIGHTING PLAN ZONE 5

SHEET NUMBER

E2-155

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



1 E2–161 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – AUXILIARY SYSTEMS PLAN – ZONE 1
SCALE: 1/8" = 1'–0"

GRAPHIC SCALE: 1/8"=1'–0"
0 2 4 8 16

TRUE NORTH

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TERMINAL IMPROVEMENTS CONTRACT 3

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TAKEFORM

KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

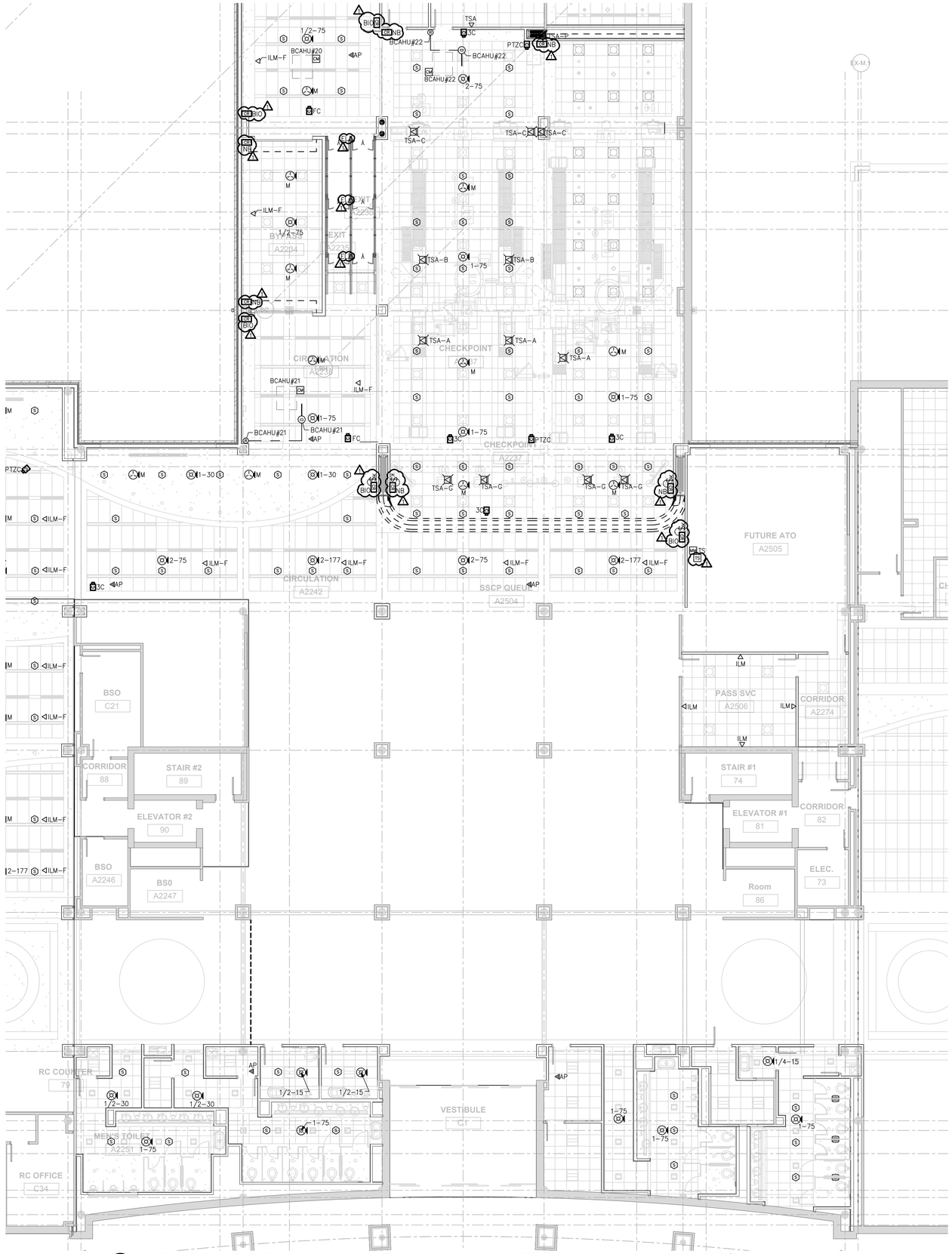
SCHEDULE 2 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 1

SHEET NUMBER

E2-161

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**



1 E2-165 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – AUXILIARY SYSTEMS PLAN – ZONE 5

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

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

0 2 4 8 16

TRUE NORTH

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TERMINAL IMPROVEMENTS CONTRACT 3

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 17593 MARK A. CIARROCCA

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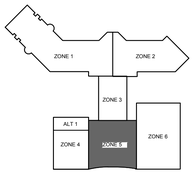

KEY PLAN

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - ELECTRICAL BOARDING LEVEL AUXILIARY SYSTEMS PLAN ZONE 5

SHEET NUMBER

E2-165

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	VOLTS	MOUNTING	MANUFACTURER / MODEL	NOTES	CALLOUT
A2M		2x2 RECESSED, PRISMATIC LENS	(1) 37W LED	LED DRIVER	277V 1P 2W	RECESSED	COLUMBIA #LJT SERIES DAYBRITE #2T LED SERIES METALUX #2GR LED SERIES	3000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. 0.156" NOMINAL LENS. DAMP LOCATION LISTED. IC-RATED.	A2M
A2ME		2x2 RECESSED, PRISMATIC LENS, BACKED UP BY EMERGENCY GENERATOR	(1) 37W LED	LED DRIVER	277V 1P 2W	RECESSED	COLUMBIA #LJT SERIES DAYBRITE #2T LED SERIES METALUX #2GR LED SERIES	3000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. 0.156" NOMINAL LENS. DAMP LOCATION LISTED. IC-RATED.	A2ME
B		RECESSED LINEAR WITH LENS	(1) 20W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	PRUDENTIAL LIGHTING #P33 SERIES FLUXWERX EQUIVALENT PEERLESS EQUIVALENT	1600 NOMINAL LUMENS PER 4 FT. 3000K COLOR TEMPERATURE. FINISH SELECTION BY ARCHITECT. FLANGE KIT. SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	B
G		4' GASKETED LED, VERTICALLY MOUNTED	(1) 40W LED	LED DRIVER	120V 1P 2W	WALL; 8'-0" AFF	PARAMOUNT #CQ SERIES PHILIPS EQUIVALENT FAILSAFE #HVSL2 SERIES	4000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE, STAINLESS STEEL MOUNTING HARDWARE & LENS CLAMPS. VERTICALLY MOUNTED. COORDINATE LOCATION WITH ELEVATOR INSTALLER / VENDOR.	G
GS		4' GASKETED INDUSTRIAL	(1) 47W LED	LED DRIVER	277V 1P 2W	PENDANT, BOTTOM OF CATWALK	COLUMBIA #LXEM SERIES DAYBRITE #DWAE SERIES METALUX #4VT SERIES	5500 NOMINAL LUMENS, 5000K COLOR TEMPERATURE, FROSTED LENS, STAINLESS STEEL LATCHES.	GS
GT		8' GASKETED INDUSTRIAL	(1) 135W LED	LED DRIVER	277V 1P 2W	PENDANT, 12' AFG UNO	COLUMBIA #LXES SERIES DAYBRITE #DWAE SERIES METALUX #4VT SERIES	14000 NOMINAL LUMENS, 5000K COLOR TEMPERATURE, FROSTED LENS, STAINLESS STEEL LATCHES.	GT
GTE		8' GASKETED INDUSTRIAL, BACKED UP BY EMERGENCY GENERATOR	(1) 135W LED	LED DRIVER	277V 1P 2W	PENDANT, 12' AFG UNO	COLUMBIA #LXES SERIES DAYBRITE #DWAE SERIES METALUX #4VT SERIES	14000 NOMINAL LUMENS, 5000K COLOR TEMPERATURE, FROSTED LENS, STAINLESS STEEL LATCHES.	GTE
HA		RECESSED LINEAR	(1) 24W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	PRUDENTIAL LIGHTING #STR-LED3-LO-R-XX-D1-SC-UNV-XX-DM01 FLUXWERX EQUIVALENT PEERLESS EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HA
HAE		RECESSED LINEAR, BACKED UP BY EMERGENCY GENERATOR	(1) 24W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	PRUDENTIAL LIGHTING #STR-LED3-LO-R-XX-D1-SC-UNV-XX-DM01 FLUXWERX EQUIVALENT PEERLESS EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HAE
HB		TRIMLESS 3" RECESSED CAN	(1) 18W LED	LED DIMMABLE DRIVER	277V 1P 2W	CEILING	USAI LIGHTING #Z3RDL-C-18CS1-6022KS-50-S-XX-NC1-UNV-D2 EDISON PRICE EQUIVALENT FOCAL POINT EQUIVALENT	SEE NOTE 1.	HB
HBE		TRIMLESS 3" RECESSED CAN, BACKED UP BY EMERGENCY GENERATOR	(1) 18W LED	LED DIMMABLE DRIVER	277V 1P 2W	CEILING	USAI LIGHTING #Z3RDL-C-18CS1-6022KS-50-S-XX-NC1-UNV-D2 EDISON PRICE EQUIVALENT FOCAL POINT EQUIVALENT	SEE NOTE 1.	HBE
HE		14" ROUND PENDANT	(1) 456W LED	LED DIMMABLE DRIVER	277V 1P 2W	PENDANT	WCUS LIGHTING #CCCD-835I4-0450 PRE-APPROVED EQUIVALENT PRE-APPROVED EQUIVALENT	1150 NOMINAL LUMENS/FT. 3000K COLOR TEMPERATURE. SUSPENDED FLUSH WITH BOTTOM OF COVE OPENING. CONTRACTOR TO LOCATE REMOTE DRIVER IN ADJACENT ACCESSIBLE CEILING SPACE. INDICATE REMOTE DRIVER LOCATION ON AS-BUILT MARKUPS. SEE NOTE 1.	HE
HF		COVE LIGHT	(1) 360W	ELECTRONIC	277V 1P 2W	COVE	VODE #707-Z1-SL-C-0-RP-DMX-0-Z-MOD-FOR-RGBW-A2-0-AL LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. PROVIDE CORNER CONNECTORS AS REQUIRED. SEE NOTE 1.	HF
HG		CURVABLE COVE LIGHT	(1) 384W LED	LED DRIVER	277V 1P 2W	COVE	VODE #707-Z1-SL-24-C-0-RP-DMX-0-Z-MOD-FOR-RGBW-A2-0-AL LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HG
HG2		CURVABLE COVE LIGHT	(1) 782W LED	LED DRIVER	277V 1P 2W	COVE	VODE #707-Z1-SL-24-C-0-RP-DMX-0-Z-MOD-FOR-RGBW-A2-0-AL LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HG2
HG3		CURVABLE COVE LIGHT	(1) 1260W LED	LED DRIVER	277V 1P 2W	COVE	VODE #707-Z1-SL-24-C-0-RP-DMX-0-Z-MOD-FOR-RGBW-A2-0-AL LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HG3
HH		2x2, ARCHITECTURAL LENS	(1) 20W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	METALUX #22EN-LD2-25-UNV-L830-CD1-U DAYO LITE PRE-APPROVED EQUIVALENT HUBBELL PRE-APPROVED EQUIVALENT	SEE NOTE 1.	HH
HH2		2x2, ARCHITECTURAL LENS, HIGH OUTPUT	(1) 80W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	FOCAL POINT #FEZ-22-AC-7000LH-30K-1C-UNV-LD1-ST-XX DAYO LITE PRE-APPROVED EQUIVALENT HUBBELL PRE-APPROVED EQUIVALENT	SEE NOTE 1.	HH2
HH2E		2x2, ARCHITECTURAL LENS, HIGH OUTPUT, BACKED UP BY EMERGENCY GENERATOR	(1) 80W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	FOCAL POINT #FEZ-22-AC-7000LH-30K-1C-UNV-LD1-ST-XX DAYO LITE PRE-APPROVED EQUIVALENT HUBBELL PRE-APPROVED EQUIVALENT	SEE NOTE 1.	HH2E
HHE		2x2, ARCHITECTURAL LENS, BACKED UP BY EMERGENCY GENERATOR	(1) 20W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	METALUX #22EN-LD2-25-UNV-L830-CD1-U DAYO LITE PRE-APPROVED EQUIVALENT HUBBELL PRE-APPROVED EQUIVALENT	SEE NOTE 1.	HHE
HJ		LINEAR SURFACE, BACKED UP BY EMERGENCY GENERATOR	(1) 75W LED	LED DIMMABLE DRIVER	277V 1P 2W	BOTTOM OF TRUSS	VODE LIGHTING #107-BX-01-XX-72-CC-ZZ-XX-XX-2-0-Z-HO-30-1	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HJ
HK		LINEAR UPLIGHT GRAZE ON CLERESTORY	(1) 108W LED	LED DRIVER	277V 1P 2W	CEILING	JUNO # 10414-20X45D-SFT-3000K-80CRI-DLDPS-40W PRE-APPROVED EQUIVALENT PRE-APPROVED EQUIVALENT	REMOTE LED DRIVER. CONTRACTOR TO INDICATE ON AS-BUILTS MARKUPS LOCATION OF LED REMOVE LED DRIVER. SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HK
HL		LINEAR BLUE UPLIGHT ON TRUSSES	(1) 75W LED	LED DIMMABLE DRIVER	277V 1P 2W	TOP SIDE OF BOTTOM CORD OF TRUSS	PROLUMELED #CHE-SC-BLUE-470-NM-C90-SC PRE-APPROVED EQUIVALENT PRE-APPROVED EQUIVALENT	REMOTE LED DRIVER. CONTRACTOR TO INDICATE ON AS-BUILTS MARKUPS LOCATION OF LED REMOVE LED DRIVER. SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HL
HM		COUNTER MILLWORK LED STRIP	(1) 50W LED	LED DIMMABLE DRIVER	277V 1P 2W	MILLWORK	VODE #707-Z1-SL-C-0-RP-DMX-0-Z-MOD-FOR-RGBW-S3-WH-0 LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	REFER TO ARCHITECTURAL MILLWORK DRAWINGS FOR DETAILS.	HM
HN		COVE LIGHT	(1) 203W	LED DIMMABLE DRIVER	277V 1P 2W	CEILING	VODE #707-Z1-SL-24-C-0-RP--AC-0-Z-SO-309-A2-0-AL LED LINEAR PRE-APPROVED EQUIVALENT SYLVANIA PRE-APPROVED EQUIVALENT	SEE PLAN FOR OVERALL LENGTH. SEE NOTE 1.	HN
HP		TRACK HEAD	(1) 19W LED	LED DRIVER	120V 1P 2W	TRACK	JUNO #T209L-X-G2-30K-90CRI-PDIM-NFL-XX CON-TECH LIGHTING EQUIVALENT WAC LIGHTING EQUIVALENT	FINISH SELECTION BY ARCHITECT. DISTRIBUTION AND OUTPUT TO BE CONFIRMED WHEN ART WORK IS SELECTED. SEE NOTE 1.	HP
HPT		TRACK	(1) 500W LED	DIMMING	120V 1P 2W	CEILING	JUNO #TEX4/HTEX4 CON-TECH LIGHTING EQUIVALENT WAC LIGHTING EQUIVALENT	PROVIDE 3A CURRENT LIMITER. SEE NOTE 1.	HPT
HR		WALL SCONCE	(1) 10W LED	LED DIMMABLE DRIVER	277V 1P 2W	WALL; COORDINATE MTG HEIGHT WITH ARCHITECT	LOUIS POULSEN #AJ EKLIPTA SERIES PRE-APPROVED EQUIVALENT PRE-APPROVED EQUIVALENT	3000K COLOR TEMPERATURE. SEE NOTE 1.	HR
I2		4' INDUSTRIAL	(1) 30W LED	LED DRIVER	277V 1P 2W	PENDANT/SURFACE	COLUMBIA #LCL SERIES DAYBRITE #FSS SERIES METALUX #SNLED SERIES	3700 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD.	I2
I2E		4' INDUSTRIAL, BACKED UP BY EMERGENCY GENERATOR	(1) 30W LED	LED DRIVER	277V 1P 2W	PENDANT/SURFACE	COLUMBIA #LCL SERIES DAYBRITE #FSS SERIES METALUX #SNLED SERIES	3700 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD.	I2E
I3		4' INDUSTRIAL	(1) 40W LED	LED DRIVER	277V 1P 2W	PENDANT/SURFACE	COLUMBIA #LCL SERIES DAYBRITE #FSS SERIES METALUX #SNLED SERIES	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD.	I3
I3E		4' INDUSTRIAL, BACKED UP BY EMERGENCY GENERATOR	(1) 40W LED	LED DRIVER	277V 1P 2W	PENDANT/SURFACE	COLUMBIA #LCL SERIES DAYBRITE #FSS SERIES METALUX #SNLED SERIES	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD.	I3G
JEL		JELLY JAR	(1) 18W LED	LED DRIVER	120V 1P 2W	MTD UNDER BHS EQUIPMENT TRACK	HUBBELL #VW1 SERIES BOCK #VWBLG215 SERIES CROUSE-HINDS #EVLED SERIES	3/4" CONDUIT HUB; SILVER GRAY FINISH; CLEAR GLASS GLOBE; DIE CAST GUARD. COORDINATE EXACT LOCATION WITH BHS EQUIPMENT VENDOR. INTENDED LOCATION IS NEAR BHS MAINTENANCE HATCH.	JEL
K1		1x1, ARCHITECTURAL LENS	(1) 22W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	PINNACLE LIGHTING #CJ11-A SERIES PRE-APPROVED EQUIVALENT AXIS LIGHTING #DALED SERIES	1600 NOMINAL LUMENS. 3000K COLOR TEMPERATURE.	K1
K1E		1x1, ARCHITECTURAL LENS, BACKED UP BY EMERGENCY GENERATOR	(1) 22W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	PINNACLE LIGHTING #CJ11-A SERIES PRE-APPROVED EQUIVALENT AXIS LIGHTING #DALED SERIES	1600 NOMINAL LUMENS. 3000K COLOR TEMPERATURE.	K1E
R6		6" RECESSED CAN	(1) 18W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	PRESCOLITE #LF6LED SERIES LIGHTOLIER #L6R SERIES PORTFOLIO #LD6EA SERIES	1500 NOMINAL LUMENS. 3000K COLOR TEMPERATURE. SELF-FLANGED LENSED REFLECTOR TRIM; LOW IRIDESCENT CLEAR FINISH.	R6
S		APRON LIGHT	(1) 558W LED	LED DRIVER	277V 1P 2W	POLE; 60'; 5' CONCRETE BASE	McGRAW-EDISON #GLEON-AF-10-LED-E1-T4FT BEACON #MA/A-96L-555-4K-4 PRE-APPROVED EQUIVALENT	65,000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV FORWARD THROW OPTICS. FINISH SELECTION BY ARCHITECT. SLIPFITTER MOUNT ON BULLHORN BRACKET. BIRD GUARD MESH TOP. TOOL-LESS HARDWARE. APRON LIGHTING LOCATED AT TOP OF BULLHORN BRACKET. COORDINATE CONCRETE BASE WITH STRUCTURAL ENGINEER.	S
W		HALF CYLINDER WALL PACK	(1) 40W LED	LED DRIVER	277V 1P 2W	WALL	DECO LIGHTING #D440 SERIES GARDCO #104L SERIES RAYON #T65OL SERIES	3800 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV DISTRIBUTION. DOWNLIGHT ONLY. FINISH SELECTION BY ARCHITECT.	W
WE		HALF CYLINDER WALL PACK, BACKED UP BY EMERGENCY GENERATOR	(1) 20W LED (1) 20W LED	LED DRIVER LED DRIVER	277V 1P 2W	WALL; MTD 9'-0" AFG	DECO LIGHTING #D440 SERIES GARDCO #104L SERIES RAYON #T65OL SERIES	3800 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV DISTRIBUTION. DUAL LED DRIVERS AND DUAL LED ARRAYS FOR EGRESS REQUIREMENTS. DOWNLIGHT ONLY. FINISH SELECTION BY ARCHITECT.	WE
X		EXIT SIGN	(2) 1W LED	ELECTRONIC	277V 1P 2W	UNIVERSAL	DUAL-LITE #EVE SERIES LIGHTALARMS #GRAN SERIES PATHWAY #XR SERIES	CONNECT TO NEAREST UNSWITCHED GENERATOR LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "X" ON THE DRAWINGS; ONLY THE SYMBOL IS USED.	X

NOTES:
1. LIGHT FIXTURE SELECTION WAS DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA.
2. REFER TO E1-1.52 FOR LUMINAIRE SCHEDULE FOR LIGHT FIXTURE TYPES HG1, HG2, HG3.

NOTES:
1. LIGHTING FIXTURE SELECTION, LAYOUT, AND DIMMER SCHEDULE WERE DESIGNED BY HARTRANFT LIGHTING DESIGN. INCLUSION HERE IS NOT INTENDED TO REPRESENT THAT THE FIXTURE SELECTION, LAYOUT, AND DIMMER SCHEDULE IS THE WORK PRODUCT OF CHEATHAM & ASSOCIATES, PA.

HARTRANFT LIGHTING DESIGN — DIMMER SCHEDULE

(SEE SEPARATE DIMMER SPECIFICATIONS)

Revisions:

PROJECT: WILMINGTON TERMINAL EXPANSION CONTRACT 3 (NOTE CONTINUED FROM THE CONTROL SYSTEM FOR CONTRACT 2. SYSTEM TO BE EXPANDED) — PROJECT # — 7/25/2019

ZONE — REVISION:

ZONE. NO.	FIXTURE	DESCRIPTION	WATTS	UNITS.	QTY.	CONTROL & LOAD TYPE	CONTROL TYPE	TOTAL
FRONT OF HOUSE (BAGGAGE CLAIM)								
9A, 9B	HB	TUNABLE WHITE DOWNLIGHT	18	EACH	8	0-10V, 2 Channel per zone	TIMECLOCK AND PHOTOSENSOR	144.0
10A, 10B	HB	TUNABLE WHITE DOWNLIGHT	18	EACH	52	0-10V, 2 Channel per zone	TIMECLOCK	936.0
11	HC	ACCENT DOWNLIGHTS ON SLOPED CEILING	20	EACH	8	0-10V	TIMECLOCK	160.0
12A, 12B	HA	LO SLOT FIXTURE	6	LFT	742	0-10V	TIMECLOCK	4452.0
13	HN	CURVABLE FOR EXISTING COVE	6.6	LFT	138	0-10V	TIMECLOCK	910.8
14	HE	CUSTOM RING FIXTURES	456	EACH	3	0-10V	TIMECLOCK	1368.0
SECURITY CHECKPOINT								
15	HH2	LED HO 2X2	79	EACH	12	0-10V	TIMECLOCK	948.0
16	HH	LED LO 2X2	20	EACH	18	0-10V	TIMECLOCK	360.0
17	HH2	LED HO 2X2	79	EACH	15	0-10V	TIMECLOCK	1185.0
18	HA	LO SLOT FIXTURE	6	LFT	162	0-10V	TIMECLOCK	972.0
CONCOURSE EXIT								
19A, 19B	HA	LO SLOT FIXTURE	6	LFT	314	0-10V	TIMECLOCK	1884.0
GATE AREA								
20A, 20B, 20C, 20D	HA	LO SLOT FIXTURE	6	LFT	1110	0-10V	TIMECLOCK	6660.0
21	HR	SCONCE IN CONCOURSE AREA	10	EACH	40	0-10V	TIMECLOCK	400.0
22	HI	4" SQUARE DOWNLIGHT	24	EACH	18	0-10V	TIMECLOCK	432.0
CLERESTORY								
23A, 23B	HK	LINEAR UPLIGHT GRAZE ON CLERESTORY	4.8	LFT	420	0-10V	TIMECLOCK	2016.0
24A, 24B	HJ	SURFACE MOUNTED LINEAR	12.5	LFT	156	0-10V	TIMECLOCK	1950.0
25	HP	TRACK LIGHTING FOR ARTWORK	19	EACH	20	0-10V	TIMECLOCK	380.0
26A, 26B, 26C	HL	BLUE LINEAR UPLIGHT ON TRUSSES	10	LFT	496	0-10V	TIMECLOCK	4960.0
CUPOLA								
27	HL	BLUE LINEAR UPLIGHT ON TRUSSES	10	LFT	88	0-10V	TIMECLOCK	880.0
28	HJ	SURFACE MOUNTED LINEAR	12.5	LFT	104	0-10V	TIMECLOCK	1300.0
29	HQ1	16 FT SQUARE PENDANT	1	EACH	500		TIMECLOCK	500.0
30	HQ2	14 FT SQUARE PENDANT	1	EACH	500		TIMECLOCK	500.0
31	HQ3	12 FT SQUARE PENDANT	1	EACH	500		TIMECLOCK	500.0
DMX								
CHANNELS 25 - 36	HF	RGBW EXTRUSION IN RECTANGULAR COVE	8	LFT	214.0	DMX	IPLAYER LINKED WITH TIME CLOCK	1712.0
CHANNELS 37 - 40	HG	RGW CURVED COVE	8	LFT	95.0	DMX	IPLAYER LINKED WITH TIME CLOCK	760.0
CHANNELS 41 - 44	HG	RGW CURVED COVE	8	LFT	95.5	DMX	IPLAYER LINKED WITH TIME CLOCK	764.0
CHANNELS 45 - 48	HG	RGW CURVED COVE	8	LFT	157.8	DMX	IPLAYER LINKED WITH TIME CLOCK	1262.0
CHANNELS 49-52	HM	RGBW EXTRUSION IN MILLWORK DETAIL OF GATE PODIA	88	LFT	50, confirm length	DMX	IPLAYER LINKED WITH TIME CLOCK	400
CHANNELS 53-56	HM	RGBW EXTRUSION IN MILLWORK DETAIL OF GATE PODIA	8	LFT	50, confirm length	DMX	IPLAYER LINKED WITH TIME CLOCK	400
CHANNELS 57-60	HM	RGBW EXTRUSION IN MILLWORK DETAIL OF BAGGAGE CLAIM KIOSK	8	LFT	50, confirm length	DMX	IPLAYER LINKED WITH TIME CLOCK	400

LIGHTING CONTROL PANEL/KEYPAD - CRESTON, ETC, OR EQUAL AND COLOR KINETICS IPLAYER3. DIMMING CONTROLS SHALL LINK TO BIULDING MANAGEMENT SYSTEM AND SHALL BE BACNET COMPATIBLE IF NECESSARY.

FINAL DIMMER LOADS MUST BE CONFIRMED BY ELECTRICAL ENGINEER.

LIGHTING RELAY / SWITCHING SCHEDULE

CIRCUIT	PANEL LC SWITCHED ZONE	AREA / DESCRIPTION	SWITCHED OUTPUTS	NOTES
L-1	1	RAMP LEVEL	YES	PHOTOCELL CONTROL
L-5	2	STAIR 7 A1107, CORRIDOR A 1109, VEST A 1115, STOR A 1132	YES	SCHEDULED ON/OFF
L-8	3	STAIR 7 A1207	YES	SCHEDULED ON/OFF
L-9	4	APRON LIGHTING	YES	PHOTOCELL CONTROL
L-11	5	APRON LIGHTING	YES	PHOTOCELL CONTROL
L-12	6	STAIR A 1208	YES	SCHEDULED ON/OFF
L-13	7	APRON LIGHTING	YES	PHOTOCELL CONTROL
L-15	8	RAMP LEVEL	YES	PHOTOCELL CONTROL
L-19	9	FUTURE 1231	YES	SCHEDULED ON/OFF
L-21	10	FUTURE A 1210	YES	SCHEDULED ON/OFF
L-23	11	STORAGE A 2131	YES	SCHEDULED ON/OFF
L-31	12	AIRLINE A 1120	YES	SCHEDULED ON/OFF
G2-1	13	RAMP LEVEL	YES	PHOTOCELL CONTROL
G2-5	14	RAMP LEVEL	YES	PHOTOCELL CONTROL
	15	SPARE RELAY		
	16	SPARE RELAY		
	17	SPARE RELAY		
	18	SPARE RELAY		
	19	SPARE RELAY		
	20	SPARE RELAY		
	21	SPARE RELAY		
	22	SPARE RELAY		
	23	SPARE RELAY		
	24	SPARE RELAY		

* ALL CIRCUITS SWITCHED ON BY MASTER SWITCH
** ALL CIRCUITS SWITCHED ON BY FIRE ALARM ACTIVATION

ILM

TERMINAL IMPROVEMENTS CONTRACT 3

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 31194 — 7/26/2019 — MARK A. CIARROCCA

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PROJECT MANAGER & CIVIL ENGINEER
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CONSULTING ARCHITECT
LS3P

STRUCTURAL ENGINEER
STEWART

FP/P/M/E ENGINEER
CHEATHAM & ASSOC.

BAGGAGE HANDLING CONSULTANTS
BNP

AIRCRAFT SUPPORT SYSTEMS
DK CONSULTANTS

SPECIALTY LIGHTING CONSULTANT
HARTRANFT

SIGNAGE & WAYFINDING
TAKEFORM

REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

ELECTRICAL LUMINAIRE, DIMMER, AND RELAY SCHEDULE

SHEET NUMBER
E-601

AIR HANDLING UNIT EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
AHU#3	480V 3P 3W	M2-1,3,5	50/3	1"C,3#6,#10G
AHU#3 CONTROL PANEL	120V 1P 2W	P4-17	20/1	3/4"C,1#12,#12N,#12G
AHU#4	480V 3P 3W	M4-2,4,6	15/3	3/4"C,3#12,#12G
AHU#4 CONTROL PANEL	120V 1P 2W	PAD-19	20/1	3/4"C,1#12,#12N,#12G
AHU#7	480V 3P 3W	M2-7,9,11	50/3	1"C,3#6,#10G
AHU#7 CONTROL PANEL	120V 1P 2W	P4-15	20/1	3/4"C,1#12,#12N,#12G
AHU#8	480V 3P 3W	M2-13,15,17	50/3	1"C,3#6,#10G
AHU#8 CONTROL PANEL	120V 1P 2W	P4-16	20/1	3/4"C,1#12,#12N,#12G
AHU#9 CONTROL PANEL	120V 1P 2W	P4-16	20/1	3/4"C,1#12,#12N,#12G
AHU#9 (RELIEF)	480V 3P 3W	M2-25,27,29	15/3	3/4"C,3#12,#12G
AHU#9 (SUPPLY)	480V 3P 3W	M2-19,21,23	15/3	3/4"C,3#12,#12G
AHU#10 CONTROL PANEL	120V 1P 2W	P4-16	20/1	3/4"C,1#12,#12N,#12G
AHU#10 (RELIEF)	480V 3P 3W	M2-37,39,41	15/3	3/4"C,3#12,#12G
AHU#10 (SUPPLY)	480V 3P 3W	M2-31,33,35	25/3	3/4"C,3#10,#10G
AHU#11 CONTROL PANEL	120V 1P 2W	P4-15	20/1	3/4"C,1#12,#12N,#12G
AHU#11 (RELIEF)	480V 3P 3W	M2-49,51,53	15/3	3/4"C,3#12,#12G
AHU#11 (SUPPLY)	480V 3P 3W	M2-43,45,47	20/3	3/4"C,3#12,#12G

BLOWER COIL AIR HANDING UNIT EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
BCAHU#1	480V 3P 3W	4BH-8,10,12	15/3	3/4"C,3#12,#12G
BCAHU#2	480V 3P 3W	4BH-14,16,18	15/3	3/4"C,3#12,#12G
BCAHU#3	480V 3P 3W	4BH-20,22,24	15/3	3/4"C,3#12,#12G
BCAHU#4	480V 3P 3W	M3-1,3,5	15/3	3/4"C,3#12,#12G
BCAHU#5	480V 3P 3W	M3-7,9,11	15/3	3/4"C,3#12,#12G
BCAHU#6	480V 3P 3W	M3-13,15,17	15/3	3/4"C,3#12,#12G
BCAHU#7	480V 3P 3W	M3-19,21,23	15/3	3/4"C,3#12,#12G
BCAHU#8	480V 3P 3W	M3-25,27,29	15/3	3/4"C,3#12,#12G
BCAHU#9	480V 3P 3W	M3-31,33,35	15/3	3/4"C,3#12,#12G
BCAHU#10	480V 3P 3W	M3-37,39,41	15/3	3/4"C,3#12,#12G
BCAHU#11	480V 3P 3W	M3-2,4,6	15/3	3/4"C,3#12,#12G
BCAHU#12	480V 3P 3W	M3-8,10,12	15/3	3/4"C,3#12,#12G
BCAHU#13	480V 3P 3W	M3-14,16,18	15/3	3/4"C,3#12,#12G
BCAHU#14	480V 3P 3W	M3-20,22,24	15/3	3/4"C,3#12,#12G
BCAHU#15	480V 3P 3W	M3-26,28,30	15/3	3/4"C,3#12,#12G
BCAHU#16	480V 3P 3W	M3-32,34,36	15/3	3/4"C,3#12,#12G
BCAHU#17	480V 3P 3W	M4-1,3,5	15/3	3/4"C,3#12,#12G
BCAHU#18	480V 3P 3W	M4-7,9,11	15/3	3/4"C,3#12,#12G
BCAHU#19	480V 3P 3W	M4-13,15,17	15/3	3/4"C,3#12,#12G
BCAHU#20	480V 3P 3W	M4-19,21,23	15/3	3/4"C,3#12,#12G
BCAHU#21	480V 3P 3W	M4-25,27,29	15/3	3/4"C,3#12,#12G
BCAHU#22	480V 3P 3W	M4-31,33,35	15/3	3/4"C,3#12,#12G

BOILER EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
BOILER #3	208V 3P 3W	DP1-1,3,5	15/3	3/4"C,3#12,#12G
BOILER #4	208V 3P 3W	DP1-7,9,11	15/3	3/4"C,3#12,#12G
BOILER #5	208V 3P 3W	DP1-13,15,17	15/3	3/4"C,3#12,#12G

CHILLER EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
CHILLER-3	480V 3P 3W	DSBC-5	350/3	3"C,3#350kcmil,#3G
CHILLER-4	480V 3P 3W	DSBC-6	350/3	3"C,3#350kcmil,#3G

FAN COIL UNIT EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
FAN COIL FCU-18	120V 1P 2W	P4-2	20/1	3/4"C,1#12,#12N,#12G

COOLING TOWER EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
COOLING TOWER #CT-1	480V 3P 3W	4IB-13,15,17	70/3	1-1/4"C,3#4,#8G
COOLING TOWER #CT-1 SUMP HEATER	480V 3P 3W	4IB-19,21,23	40/3	3/4"C,3#8,#10G
COOLING TOWER #CT-2	480V 3P 3W	4IB-25,27,29	70/3	1-1/4"C,3#4,#8G
COOLING TOWER #CT-2 SUMP HEATER	480V 3P 3W	4IB-31,33,35	40/3	3/4"C,3#8,#10G

DUCTLESS SPLIT SYSTEM HEAT PUMP EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
DAHU #1	208V 2P 2W	P4-44,46	15/2	3/4"C,2#12,#12G
DAHU #2	208V 2P 2W	P4-48,50	25/2	3/4"C,2#10,#10G
DAHU #3	208V 2P 2W	P4-52,54	25/2	3/4"C,2#10,#10G
DAHU #4	208V 2P 2W	TSA-28,30	25/2	3/4"C,2#8,#10G
DHP #1	208V 2P 2W	P4-44,46	15/2	3/4"C,2#12,#12G
DHP #2	208V 2P 2W	P4-48,50	25/2	3/4"C,2#10,#10G
DHP #3	208V 2P 2W	P4-52,54	25/2	3/4"C,2#10,#10G
DHP #4	208V 2P 2W	TSA-28,30	25/2	3/4"C,2#8,#10G

ELECTRIC UNIT HEAT EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
ELECTRIC UNIT HEATER - UH-27	480V 3P 3W	M2-2,4,6	15/3	3/4"C,3#12,#12G
ELECTRIC UNIT HEATER - UH-28	480V 3P 3W	M2-8,10,12	15/3	3/4"C,3#12,#12G
ELECTRIC UNIT HEATER - UH-29	480V 3P 3W	M2-14,16,18	15/3	3/4"C,3#12,#12G
ELECTRIC UNIT HEATER - UH-30	480V 3P 3W	M2-20,22,24	20/3	3/4"C,3#12,#12G
ELECTRIC UNIT HEATER - UH-31	480V 3P 3W	M2-26,28,30	15/3	3/4"C,3#12,#12G
ELECTRIC UNIT HEATER - UH-32	480V 3P 3W	M1-38,40,42	15/3	3/4"C,3#12,#12G
ELECTRIC UNIT HEATER - UH-33	480V 3P 3W	M2-32,34,36	15/3	3/4"C,3#12,#12G
ELECTRIC UNIT HEATER - UH-34	480V 3P 3W	M2-38,40,42	15/3	3/4"C,3#12,#12G
ELECTRIC UNIT HEATER - UH-35	480V 3P 3W	M2-44,46,48	15/3	3/4"C,3#12,#12G
ELECTRIC UNIT HEATER - UH-36	480V 3P 3W	M4-8,10,12	15/3	3/4"C,3#12,#12G
ELECTRIC UNIT HEATER - UH-37	480V 3P 3W	M2-50,52,54	15/3	3/4"C,3#12,#12G

ELECTRIC WALL HEATER EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
ELECTRIC WALL HEATER - EWH#1	208V 2P 2W	DP1-44,46	20/2	3/4"C,2#12,#12G
ELECTRIC WALL HEATER - EWH#2	208V 2P 2W	DP1-40,42	20/2	3/4"C,2#12,#12G

PLUMBING EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
CIRC. PUMP	120V 1P 2W	P3-8	15/1	3/4"C,1#12,#12N,#12G
CIRC. PUMP	120V 1P 2W	P1-21	20/1	3/4"C,1#12,#12N,#12G
H20 HTR	480V 3P 3W	M4-20,22,24	20/3	3/4"C,3#12,#12G
H20 HTR	480V 3P 3W	M4-14,16,18	20/3	3/4"C,3#12,#12G
H20 HTR	480V 3P 3W	B9-38,40,42	20/3	3/4"C,3#12,#12G
POTABLE WATER #1	120V 1P 2W	P4-4	20/1	3/4"C,1#12,#12N,#12G
POTABLE WATER #2	120V 1P 2W	P4-6	20/1	3/4"C,1#12,#12N,#12G

POWER VENTILATOR EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
FAN F-5	120V 1P 2W	B10-29	20/1	3/4"C,1#12,#12N,#12G
FAN F-29	480V 3P 3W	M1-20,22,24	15/3	3/4"C,3#12,#12G
FAN F-30	480V 3P 3W	M1-26,28,30	15/3	3/4"C,3#12,#12G
FAN F-31	480V 3P 3W	M1-32,34,36	15/3	3/4"C,3#12,#12G
FAN F-34	120V 1P 2W	P3-51	15/1	3/4"C,1#12,#12N,#12G
FAN F-35	480V 3P 3W	4IB-38,40,42	15/3	3/4"C,3#12,#12G
FAN F-36	480V 3P 3W	4IB-38,40,42	15/3	3/4"C,3#12,#12G
FAN SF-1	480V 3P 3W	MC-26,28,30	15/3	3/4"C,3#12,#12G
FAN SF-3	480V 3P 3W	4IB-37,39,41	15/3	3/4"C,3#12,#12G

PUMP EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
PUMP P-14 CHILLER PRIMARY	480V 3P 3W	M1-1,3,5	30/3	3/4"C,3#10,#10G
PUMP P-15 CHILLER PRIMARY	480V 3P 3W	M1-7,9,11	30/3	3/4"C,3#10,#10G
PUMP P-16 CHILLED WATER SECONDARY	480V 3P 3W	M1-13,15,17	50/3	1"C,3#6,#10G
PUMP P-17 CHILLED WATER SECONDARY	480V 3P 3W	M1-19,21,23	50/3	1"C,3#6,#10G
PUMP P-18 CONDENSER WATER	480V 3P 3W	M1-25,27,29	70/3	1-1/4"C,3#4,#8G
PUMP P-19 CONDENSER WATER	480V 3P 3W	M1-31,33,35	70/3	1-1/4"C,3#4,#8G
PUMP P-20 HOT WATER SYSTEM	480V 3P 3W	M1-37,39,41	30/3	3/4"C,3#10,#10G
PUMP P-21 HOT WATER SYSTEM	480V 3P 3W	M1-43,45,47	30/3	3/4"C,3#10,#10G
PUMP P-22 HOT WATER BOILER 3	480V 3P 3W	M1-2,4,6	15/3	3/4"C,3#12,#12G
PUMP P-23 HOT WATER BOILER 4	480V 3P 3W	M1-8,10,12	15/3	3/4"C,3#12,#12G
PUMP P-24 HOT WATER BOILER 5	480V 3P 3W	M1-14,16,18	15/3	3/4"C,3#12,#12G

MISCELLANEOUS EQUIPMENT SCHEDULE

CALLOUT	VOLTS	CIRCUIT	BREAKER	WIRE CALLOUT
AIR COMPRESSOR	480V 3P 3W	MC-20,22,24	20/3	3/4"C,3#12,#12G
COILING DOOR #1	120V 1P 2W	TSA2-39	20/1	3/4"C,1#12,#12N,#12G
COILING DOOR #2	120V 1P 2W	TSA2-39	20/1	3/4"C,1#12,#12N,#12G
COILING DOOR #3	120V 1P 2W	P4-1	20/1	3/4"C,1#12,#12N,#12G
COILING DOOR #4	120V 1P 2W	P4-3	20/1	3/4"C,1#12,#12N,#12G
COILING DOOR #5	120V 1P 2W	P4-5	20/1	3/4"C,1#12,#12N,#12G
ELEV. CAB LTS	120V 1P 2W	P3-15	20/1	3/4"C,1#12,#12N,#12G
ELEVATOR	480V 3P 3W	DSBC-7	125/3	1-1/2"C,3#1,#6G
FOLDING DOOR #1	208/120V 2P 3W	TSA2-41,43	20/2	3/4"C,2#12,#12N,#12G
FOLDING DOOR #2	208/120V 2P 3W	TSA2-45,47	20/2	3/4"C,2#12,#12N,#12G
FOLDING DOOR #3	208/120V 2P 3W	TSA2-44,46	20/2	3/4"C,2#12,#12N,#12G
HEAT TRACE CONTROLLER #1	120V 1P 2W	B4B-14	15/1	3/4"C,1#12,#12N,#12G
HEAT TRACE CONTROLLER #2	120V 1P 2W	B4B-14	15/1	3/4"C,1#12,#12N,#12G
HEAT TRACE CONTROLLER #3	120V 1P 2W	P4-32	15/1	3/4"C,1#12,#12N,#12G
HEAT TRACE CONTROLLER #4	120V 1P 2W	P4-35	15/1	3/4"C,1#12,#12N,#12G
HEAT TRACE CONTROLLER #5	120V 1P 2W	PAD-26	15/1	3/4"C,1#12,#12N,#12G
HEAT TRACE CONTROLLER #5	120V 1P 2W	PAD-30	15/1	3/4"C,1#12,#12N,#12G
JET BRIDGE GPU	480V 3P 3W	DSBC-12	150/3	1-1/2"C,3#1/0,#6G
JET BRIDGE GPU	480V 3P 3W	DSBC-15	150/3	1-1/2"C,3#1/0,#6G
JET BRIDGE GPU	480V 3P 3W	DSBC-19	150/3	1-1/2"C,3#1/0,#6G
JET BRIDGE GPU	480V 3P 3W	DSBC-9	150/3	1-1/2"C,3#1/0,#6G
JET BRIDGE PBB	480V 3P 3W	DSBC-11	60/3	1"C,3#6,#10G
JET BRIDGE PBB	480V 3P 3W	DSBC-14	60/3	1"C,3#6,#10G
JET BRIDGE PBB	480V 3P 3W	DSBC-18	60/3	1"C,3#6,#8G
JET BRIDGE PBB	480V 3P 3W	DSBC-8	60/3	1"C,3#6,#10G
JET BRIDGE PCA	480V 3P 3W	DSBC-13	250/3	2-1/2"C,3#250kcmil,#4G
JET BRIDGE PCA	480V 3P 3W	DSBC-20	250/3	2-1/2"C,3#250kcmil,#4G
JET BRIDGE PCA	480V 3P 3W	DSBC-10	250/3	2-1/2"C,3#250kcmil,#4G
JET BRIDGE PCA	480V 3P 3W	DSBC-16	250/3	2-1/2"C,3#250kcmil,#4G
MCP-IB1	480V 3P 3W	4IB-1,3,5	125/3	1-1/2"C,3#1,#6G
MCP-IB2	480V 3P 3W	4IB-7,9,11	125/3	1-1/2"C,3#1,#6G
POWER DOOR #1	120V 1P 2W	2IB-7	20/1	3/4"C,1#12,#12N,#12G
POWER DOOR #2	120V 1P 2W	2IB-9	20/1	3/4"C,1#12,#12N,#12G
POWER DOOR #3	120V 1P 2W	2IB-11	20/1	3/4"C,1#12,#12N,#12G
POWER DOOR #4	120V 1P 2W	2IB-13	20/1	3/4"C,1#12,#12N,#12G

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TERMINAL IMPROVEMENTS CONTRACT 3

Wilmington International Airport
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JOB # 19005

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 31761 — 26 JULY 2019 — MARK A. CIARROCCA

THE WILSON GROUP
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TAKEFORM

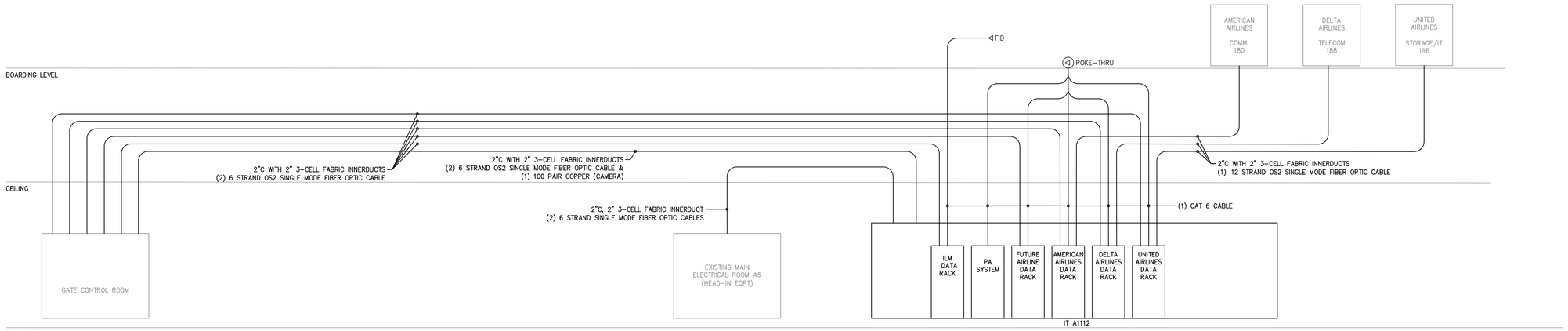
REVISIONS

⚠ AD-03	07/26/2019

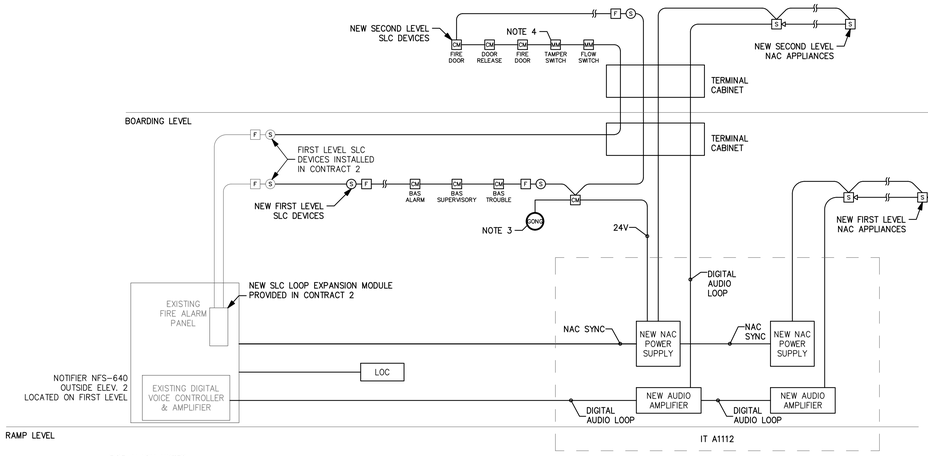
DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

ELECTRICAL EQUIPMENT CIRCUITRY SCHEDULES

SHEET NUMBER
E-602



D E-703 TELEPHONE/DATA SYSTEMS RISER DIAGRAM
NO SCALE



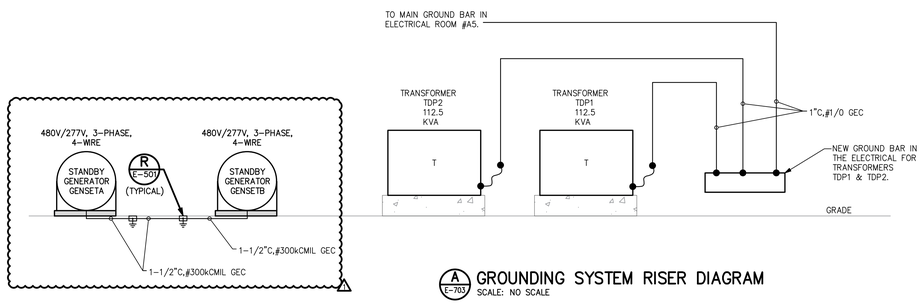
FIRE ALARM OPERATION MATRIX	FACP ANNUNCIATION							NOTIFICATION								CONTROL													
	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE AUDIBLE COMMON TROUBLE SIGNAL		ACTIVATE EVACUATION SIGNALS	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STA.	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STA.	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STA.	SEND GENERAL FIRE ALARM SIGNAL TO BAS	SEND GENERAL FIRE SUPERVISORY SIGNAL TO BAS	SEND GENERAL TROUBLE SIGNAL TO BAS	ACTIVATE SPRINKLER GONG	RELEASE MAGNETICALLY HELD FIRE DOORS	ACTIVATE ELEVATOR PRIMARY FLOOR RECALL	ACTIVATE ELEVATOR ALTERNATE FLOOR RECALL	ACTIVATE ELEVATOR VISUAL WARNING SIGNAL	ACTIVATE ELEVATOR POWER SHUNT	ACTIVATE FIRE SHUTTERS & FIRE DOORS	SWITCH ALL LIGHTING ON BY LIGHTING CONTROL PANEL(S)	SHUT DOWN AIR HANDLERS	RELEASE ACCESS CONTROLLED DOORS IN EGRESS PATH	
SYSTEM INPUTS	A	B	C	D	E	F	G	I	J	K	L	M	N	N	O	P	Q	R	S	S	U	V	Y						
1 MANUAL PULL STATIONS	X	X					X	X			X				X					X	X	X	X						
2 SMOKE/HEAT DETECTORS	X	X					X	X			X				X					X	X	X	X						
3 SMOKE DETECTOR - ELEV. MECH. ROOM	X	X					X	X			X				X	X		X		X	X	X	X						
4 HEAT DETECTOR - ELEV. MECH. ROOM	X	X					X	X			X				X	X		X	X	X	X	X	X						
5 SMOKE DETECTOR - 1ST FLR ELEV. LOBBY	X	X					X	X			X				X	X				X	X	X	X						
6 SMOKE DETECTOR - 2ND FLR ELEV. LOBBY	X	X					X	X			X					X				X	X	X	X						
7 HEAT DETECTOR - ELEV. PIT	X	X					X	X			X				X	X		X	X	X	X	X	X						
8 HVAC DUCT SMOKE DETECTOR			X	X					X			X									X								
9 SPRINKLER WATERFLOW	X	X					X	X			X			X	X					X	X	X	X						
10 SPRINKLER CONTROL VALVE			X	X					X			X																	
11 SHUNT TRIP BREAKER PWR. SUPERVISORY			X	X					X			X																	
12 FIRE ALARM SYSTEM POWER FAILURE					X	X				X[1]			X		X					X									
13 FIRE ALARM SYSTEM LOW BATTERY					X	X				X			X																
14 OPEN CIRCUIT					X	X				X			X																
15 GROUND FAULT					X	X				X			X																
16 NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X				X			X																
17 AHU SHUTDOWN DEFEAT SWITCH			X	X					X			X																	

[1] 8 HOUR TRANSMISSION DELAY

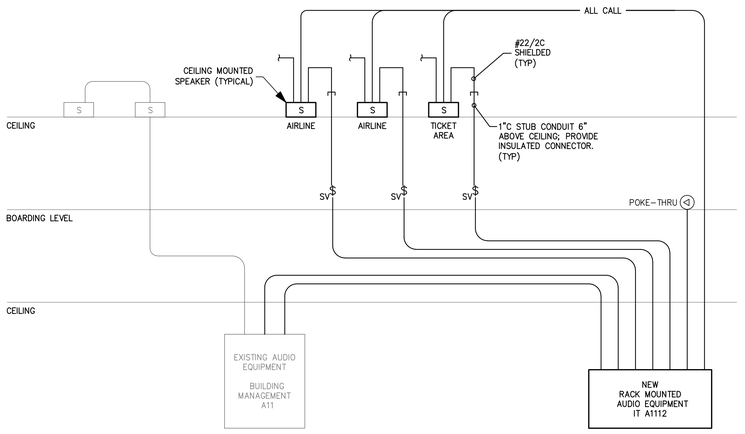
FIRE ALARM NOTES

1. NEW ADDRESSABLE DEVICES SHALL BE CONNECTED TO THE SLC PROVIDED IN CONTRACT 2.
2. EXTENSION OF THE EXISTING BUILDING SLC TO CONNECT NEW DEVICES SHALL BE PERMITTED ONLY ON A CASE BY CASE BASIS. CONNECTION OF NEW DEVICES TO THE EXISTING SLC SHALL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
3. ELECTRICALLY ACTIVATED SPRINKLER WATERFLOW BELL(S) OR GONG(S) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL/SPRINKLER CONTRACTOR. THE ELECTRICAL/FIRE ALARM CONTRACTOR SHALL MAKE ELECTRICAL CONNECTIONS. ELECTRIC SPRINKLER WATERFLOW BELL(S) OR GONG(S) SHALL BE POWERED BY THE FIRE ALARM SYSTEM & SHALL OPERATE AT 24-V DC.
4. MODULES INSTALLED IN NON-CONDITIONED SPACES SHALL BE TESTED, LISTED, AND MARKED FOR CONTINUOUS DUTY ACROSS THE RANGE OF TEMPERATURES AND HUMIDITY EXPECTED AT THEIR INSTALLED LOCATIONS.

C E-703 FIRE ALARM SYSTEM RISER DIAGRAM
NO SCALE



A E-703 GROUNDING SYSTEM RISER DIAGRAM
SCALE: NO SCALE



B E-703 PA SYSTEM RISER DIAGRAM
SCALE: N/A

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17593 MARK A. CIARROCCA 10/31/2019

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REVISIONS

1	AD-03	07/26/2019

DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

ELECTRICAL MISCELLANEOUS RISER DIAGRAMS

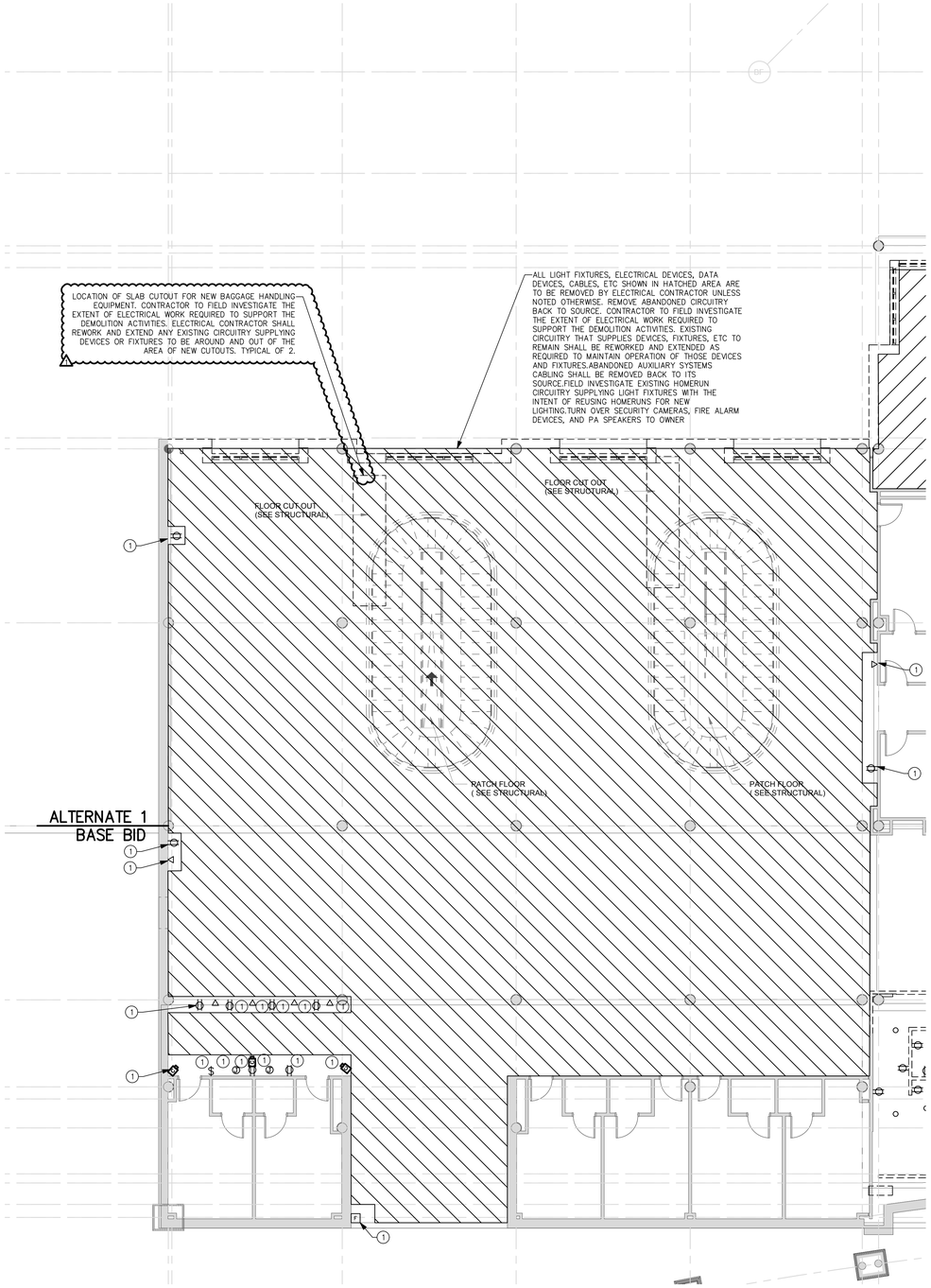
SHEET NUMBER
E-703

FOR CONTRACT 3 SCHEDULE 1 AND SCHEDULE 2 WORK PHASES:

- **SEE ARCHITECTURAL PLANS A-01* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **SEE BAGGAGE HANDLING SYSTEM PLANS B-* SERIES FOR ADDITIONAL AND DETAILED PHASING INFORMATION.**
- **COORDINATE ACTUAL PHASED WORK REQUIREMENTS WITH THE GENERAL CONTRACTOR'S SCHEDULE.**

KEYED NOTES:

(1) EXISTING DEVICES TO REMAIN.



1 / ED2-124 SCHEDULE 2 – ELECTRICAL BOARDING LEVEL – DEMOLITION PLAN – ZONE 4
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE: 1/8"=1'-0"
0 2 4 8 16

TRUE NORTH

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TERMINAL IMPROVEMENTS CONTRACT 3

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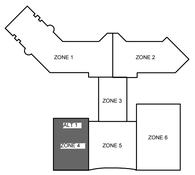


KEY PLAN

REVISIONS

1 AD-03	07/26/2019

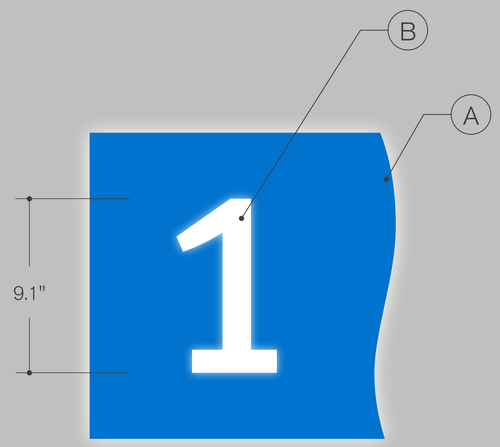
DATE 06/28/19
PROJECT NUMBER 9202-000
SHEET TITLE

SCHEDULE 2 - ELECTRICAL BOARDING LEVEL DEMOLITION PLAN ZONE 4

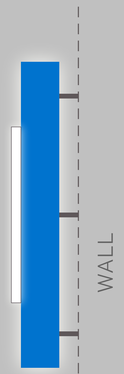
SHEET NUMBER

ED2-124

gray background to show illumination

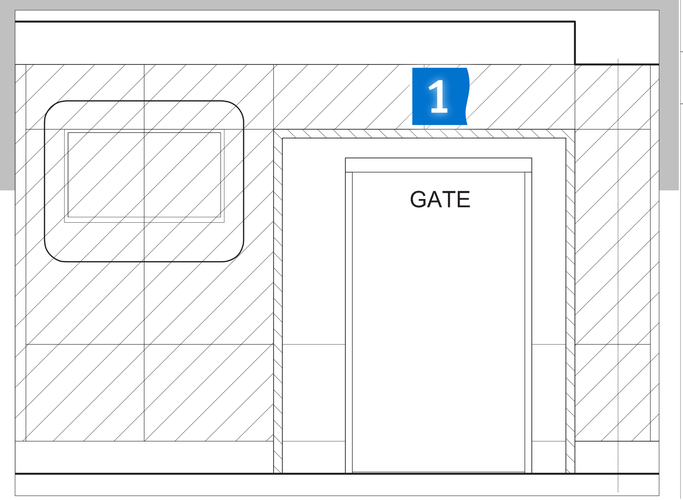


Type D
16.0"w X 16.0"h



SIDE VIEW

ELEVATION VIEW



Halo Lit - Fabricated Aluminum Pan

A
Depth: 2.0"
Paint to match PMS 285C
LED illumination
Mounting: Stud with 1.0" Stand-offs

Illuminated Push Thru Lettering

B
Thickness: .75 Translucent acrylic .5" proud of face
Font: Meta B 770 wt
7328 White

takeform
11601 Maple Ridge Rd, Medina, NY, 14103
P 800.528.1398 F 585.798.8889
www.takeform.net

Rendering

Project:
Wilmington International Airport

Date: 05.28.19
Drawn By: AKD

Filename:
WIL0066_68733_RND_rev3

Design Review By:

Revisions:
06.13.19AKD add J.2, L
06.27.19AKD updt/add signs
07.26.19AEG update Type D

Scale: 1½" = 1'

Notes:
- Sign copy shown is for sample purposes only

Product Approval

☐ As Is ☐ As Noted
Approved By: _____
Date: _____

AG-6