# Gates 10 & 11 Guard Shack, Canopy, and Foundation - Scope of Work

**Gate #11 Guard Shack**
Architectural scope:
1. Concrete footings, foundation wall and floor slab
2. Wood framed walls.
3. Doors, windows, casework, countertop microwave, undercounter refrigerator and restroom accessories
4. All scheduled interior finishes
5. Exterior envelope finishes.

Mechanical scope:
1. The unit heater and exhaust fan in the restroom
2. The Split-system in the guard room including the outdoor unit on the concrete traffic island on the north end of the building

Plumbing scope:
1. The PRV in the restroom wall
2. The restroom plumbing fixtures
3. The kitchenette sink and disposal
4. Connection to the site utilities within 5' of the building footprint.

Electrical scope:
1. Guard Shack electrical service and grounding.
   a. Guard Shack is fed from Gate 11 panel.
2. Guard Shack general purpose outlets and circuiting.
3. Guard Shack appliance outlets and circuiting.
4. Guard Shack mechanical equipment circuiting.
5. Guard Shack interior and exterior lighting, lighting controls, and circuiting.
6. Guard Shack Telecom and Access Control conduits and boxes.
7. Telecom and Access Control underground conduits and in-grade boxes.

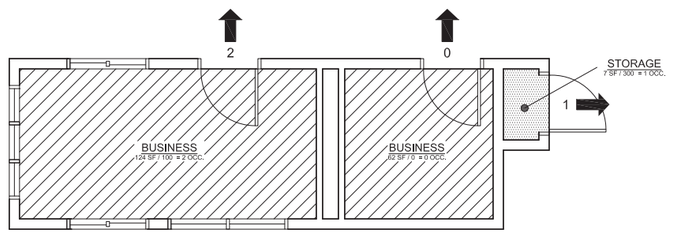
**Gate #11 Pre-Fabricated Vehicle Canopy**
Architectural scope:
1. Installation of the concrete footings and foundations for the pre-fabricated vehicle canopy.
   a. The design for the footing and foundations are to be provided by the pre-fabricated canopy engineer and installed by the general contractor.
   b. An anticipated footing detail is included in the construction documents for bidding purposes.
2. The pre-fabricated vehicle canopy package will include:
   a. All structural steel support columns
   b. Steel framing systems
   c. Internal gutter systems and downspouts to approximate grade
   d. All finish panels for both the fascia and soffit
   i. Anticipated framing details are provided in the construction documents for coordination
   e. Erection of all items included in the package.

**Gate #11 Guard Shack**
Architectural scope - continued
3. The General Contractor is to provide:
   a. Painting of all steel support columns exposed to view
   b. Canopy circuits disconnect and grounding.
   c. Canopy circuits are fed from the Guard Shack electrical panel.
   d. Canopy lighting, lighting controls, and circuiting.
   e. Canopy heat trace and circuiting.
   f. Salvage and re-installation of the domed mirrors
   g. All connections of the roof drains and electrical systems to within 5' of the canopy footprint.

**Gate 10 Electrical Work**
1. Electrical service and grounding.
   a. Gate 10 is fed from the existing AOC standby distribution panel.
2. Electrical equipment mounting rack and concrete pad.
3. General purpose outlet and circuiting.
4. Installation of Fiber and CASS enclosures that are furnished by the Airport.
5. Light poles with integral controls and circuiting.
6. Power to sliding gate operators, barrier arm operators, and camera poles.
7. Telecom and Access Control underground conduits and in-grade boxes to sliding gate operators, barrier arm operators, card reader and phone pedestals, and camera poles.

**Gate 11 Electrical Work**
1. Electrical service and grounding.
   a. Gate 11 is fed from the existing AOC standby distribution panel.
2. Electrical equipment mounting rack and concrete pad.
3. General purpose outlet and circuiting.
4. Installation of Fiber and CASS enclosures that are furnished by the Airport.
5. Light poles with integral controls and circuiting.
6. Power to barrier arm operators and camera poles.

Telecom and Access Control underground conduits and in-grade boxes to barrier arm operators, card reader and phone pedestals, and camera poles.




A1 GUARD SHACK LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"

FFKR ARCHITECTS

## SLCIA Gate #11 Guard Shack

### Basic IBC 2018 Code Analysis

February 10, 2020

**Applicable Codes**

| | | | |
|---|---|---|---|
| International Building Code (IBC) | 2018 | International Energy Conservation Code (IECC) | 2018 |
| International Mechanical Code (IMC) | 2018 | National Electrical Code (NEC) | 2017 |
| International Plumbing Code (IPC) | 2018 | International Existing Building Code | 2018 |
| International Fire Code (IFC) | 2018 | ICC ANSI A117.1 | 2017 |

**Building Occupancy & Construction Type**

| | | | | | |
|---|---|---|---|---|---|
| Occupancy of Building | Single | Separated Occupancies | No | Refer to 508.3 | Table 506.4 |
| Most Restrictive Occupancy | B | Construction Type | V-B | | Sect 602 |

| | | | |
|---|---|---|---|
| Any Special Use & Occupancies? | None | | Chapter 4 |
| Building Occupancies | B, S-1 | | |
| Change in Use? | No | | |
| Is the building fire sprinkled | No | | |
| Seismic Design Category | D | | |
| Wind Speed | 90 MPH | | |
| Design Building Area | 246 SF | Pass | |
| Design Building Height (Stories) | 1 Stories | Pass | |
| Design Building Height (Ft) | 20 Ft | Pass | |

| | | |
|---|---|---|
| Allowed Building Area | 15,750 SF | Sect. 506.1 per Equation 5-1 |
| Allowed Building Height (Stories) | 2 Stories | Verify provisions of Sections 508.2.2 |
| Allowed Building Height | 40 Ft | & 508.2.3 |

**Building Square Footage**

| | | | | |
|---|---|---|---|---|
| Ground Floor | 246 SF | Occupied (Y/N): Yes | | Basement? Sect. 506.1.3 |
| Total | 246 SF | | | |

**Area Increases** — Sect. 506 Equation 5-1

| | | | | |
|---|---|---|---|---|
| Unlimited Area Building? | | No | | Section 507 for possible "Yes" |
| Allowable Area (Aa) | Aa | 15,750 SF | | Mezzanine? See Sect 505 |
| Max Allowed Story | Sa=1 | FALSE SF | | |
| Tabular Area (At) | At | 9,000 SF | | Table 503 |
| Frontage Increase (If) | If | 0.75 % | | Sect 506.2 per Equation 5-2 |
| Perim. Public Way (F) | F | 75 Ft | | |
| Bldg Perimeter (P) | P | 75 Ft | | |
| Is Public Way a Constant Width | | Yes | | |
| Public Way Width (W) | W | 30 Ft | 1.0 | Sect 506.2.1 if less than 20' |
| Building Height (Ft) | | | | Sect. 504.3 |
| Tabular Height | | 40 Ft | | Table 504.3 |
| Building Height (Stories) | | | | Sect. 504.3 |
| Tabular Stories | | 2 Stories | | Table 504.4 |

**Fire Resistance Ratings for Building Elements (hours)** — Table 601

| | | |
|---|---|---|
| Are Fire Sprinklers Required | No | (See "Are Sprinklers Required" tab) Sect. 903.2 |

| Building Element | Tabular | Notes |
|---|---|---|
| Primary Structural Frame (See Section 202) | 0 | F |
| Bearing Walls - Exterior | 0 | B,F |
| Bearing Walls - Interior | 0 | - |
| Nonbearing Walls & Partitions - Exterior | See Table 602 | |
| Nonbearing Walls & Partitions - Interior | 0 | D |
| Floor Construction (See Section 202) | 0 | - |
| Roof Construction (See Section 202) | 0 | - |

**Shaft Enclosure Fire Rating** — Section 713.4

| | | | |
|---|---|---|---|
| Shaft Enclosure Fire Rating | 1 hours | Stories (including Basements) | 1 |

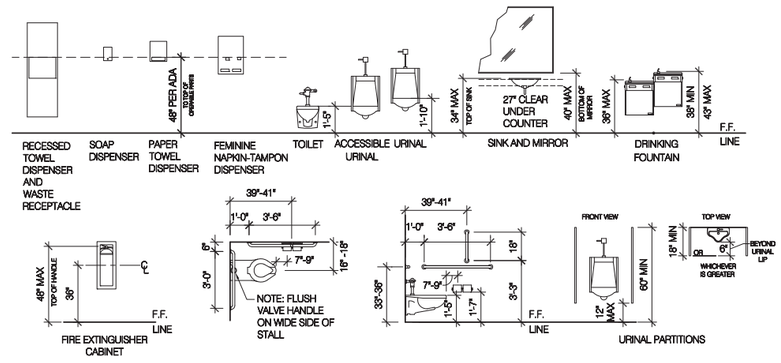
**Exit Width** — Exit Convergence? - See 105.6 — Section 1005

**Stairs**

| Area / Floor | Occupants | Exit On Grade? | Factor from Sect. 1005.3.1 | Stair Width Required | Stair Width Provided | |
|---|---|---|---|---|---|---|
| Ground Floor | 3 | Yes | 0.3 in | N/A in | 0 in | Pass |
| Total Exit Width Required | | | | 0 in. | 0 in | |

**Doors**

| Area / Floor | Occupants | Factor from Sect. 1005.1 | Door Width Required | Door Width Provided | |
|---|---|---|---|---|---|
| Ground Floor | 3 | 0.2 in | 0.6 in | 68 in | Pass |
| Total Exit Width Required | | | 0.6 in. | 68 in. | |




C4 FIXTURE ELEVATIONS
SCALE: 1/4" = 1'-0"

## ABBREVIATIONS

| | |
|---|---|
| AFF | ABOVE FINISH FLOOR |
| CMU | CONCRETE MASONRY UNIT |
| EIFS | EXTERIOR INSULATED FINISH |
| EQ | EQUAL |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| NIC | NOT IN CONTRACT |
| O.C. | ON CENTER |
| SPEC | SPECIFICATION |
| SIM | SIMILIAR |
| TYP | TYPICAL |
| T.O. | TOP OF |
| B.O. | BOTTOM OF |

## MATERIAL LEGEND

- GYPSUM BOARD OR CONCRETE SURFACE
- CONCRETE
- STUD WALL
- GRAVEL
- COMPACTED FILL AND/OR EARTH
- CMU (CONCRETE MASONRY UNIT)
- BATT INSULATION
- RIGID INSULATION

## SYMBOLS LEGEND

- ROOM IDENTIFICATION NUMBER — ROOM NAME / NUM
- DOOR NUMBER — XXX
- REFERENCE NOTE — XX.XX
- GLAZING TYPE — X
- PARTITION WALL TYPE — XX
- INTERIOR ELEVATION — A1 / A2 / A3 / A4; SHADE INDICATES ELEVATED WALL; ELEVATION NUMBER; SHEET NUMBER
- BUILDING SECTION — SECTION NUMBER; SHEET NUMBER
- WALL SECTION — SECTION NUMBER; SHEET NUMBER
- EXTERIOR ELEVATION — ELEVATION NUMBER; SHEET NUMBER
- DETAIL — DETAIL NUMBER; SHEET NUMBER
- DETAIL TITLE — A1 DETAIL, SCALE:
- REVISION DELTA — 2 REVISION NUMBER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STATE OF UTAH — JAMES BRIAN LOHSE — No. 126045-0301 — LICENSED ARCHITECT — 03/04/20

| REVISIONS | | | | |
|---|---|---|---|---|
| No. | DATE | REMARKS | BY | APV |

DESIGNED AAH 3/4/20 DATE
DRAWN AAH/PC 3/4/20 DATE
CHECKED AAH/JBL 3/4/20 DATE
APPROVED JBL
DATE MARCH 4, 2020

Salt Lake City Department of Airports

ENGINEERING DIVISION
SALT LAKE CITY
DEPARTMENT OF AIRPORTS
P.O. BOX 145550
SALT LAKE CITY, UT. 84114-5550

SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11
CODE REVIEW & ADA HEIGHT REQUIREMENTS

BID DOCUMENTS
DRAWING G001
PROJECT 54 1019 1765
SHEET 79 OF 127


Drawing: X:\2019\19177 SLCIAG\1011\02-Dwg\02-Sheets_G001 General Information\G001 - CODE REVIEW & ADA REQ.dwg
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# GENERAL STRUCTURAL NOTES

## GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. Typical details and sections shall apply where specific details are not shown.
3. The structural drawings are not all-inclusive and do not contain all dimensions, elevations, openings, mechanical shafts and penetrations needed to build the structure. The contractor shall coordinate these items with the Architectural, Mechanical and Electrical drawings.
4. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any affected elements.
5. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
6. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
7. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
8. The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the roof system is completed.
9. Site observations by BHB Consulting Engineers' field representative shall not be construed as approval of construction procedures nor special inspection.
10. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
11. Contractor shall review shop drawings for compliance with contract documents, and stamp shop drawings with review stamp prior to submission to architect for review. Review of shop drawings by BHB Consulting Engineers is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents. Fabrication shall not begin until shop drawings review process is complete. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
12. Only an authorized representative of BHB Consulting Engineers may make changes to these contract drawings. BHB Consulting Engineers shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers.

## BASIS OF DESIGN

1. Governing Code — International Building Code 2018
   a. Risk Category — II
2. Snow Loads
   a. Ground Snow Load — $P_g$ = 28 psf
   b. Snow Importance Factor — $I_s$ = 1.0
   c. Snow Exposure Coefficient — $C_e$ = 1.0
   d. Thermal Exposure Coefficient — $C_t$ = 1.0
   e. Roof Snow Load — $P_f = 0.7 * C_e * C_t * I_s * P_g$ = 20 psf plus Snow Drift
3. Rain Loads
   a. Rain Intensity — i = 1.5 in/hr
4. Roof Live Load — 20 psf
5. Seismic Loads
   a. Seismic Importance Factor, $I_e$ — 1.0
   b. Seismic Design Category — D
   c. Site Specific Ground Motion Hazard Analysis — Not Required per exceptions in section 11.4.8 of ASCE 7
   d. Mapped Spectral Acceleration — $S_S$ = 1.510g
   e. Soil Site Class — E
   f. Soil Site Coefficients — $F_a$ = 1.2
   g. 5% Damped Design Spectral Response Acceleration — $S_{DS} = 2/3 * F_a * S_S$ = 1.208g; $S_{D1} = 2/3 * F_v * S_1$ = 1.506g
   h. Seismic-Force-Resisting System — Light Framed Wood Sheathed Shear Walls
   i. Response Modification Coefficient — R = 6.5
   j. System Over-strength Factor — $\Omega_0$ = 3
   k. Deflection Amplification Factor — $C_d$ = 4
   l. Redundancy Factors — $\rho_x$ = 1.0; $\rho_y$ = 1.0
   m. Fundamental Building Period — T = 0.129 seconds
   n. Seismic Response Coefficient — $Cs = S_{DS} * I_e / R$; $Cs = S_{D1} * I_e / (R*T)$
   o. W — Dead Loads of Structure
   p. Base Shear — $Vx = C_s * W$ = 0.132 * W; $Vy = C_s * W$ = 0.132 * W
   q. Analysis Procedure — Equivalent Lateral Force (Static)
6. Wind Loads
   a. Basic Wind Velocity (3 Second Gust) — 103 mph)
   b. Exposure Type — C
   c. Internal Pressure Coefficient, GCpi — +/-0.18
   d. Topographic Factor, Kzt — 1.0
   e. Ground Elevation Factor, Ke — 1.0

## FOUNDATION

1. Soils Investigation Report: — None
2. Assumed Soil bearing pressure: — 1500 psf -Contractor shall verify at time of construction.
3. Frost Protection: — 30" minimum.
4. Clear excavations of debris and loose soil prior to placing footings. All footings shall bear on undisturbed natural sub-grade or engineered compacted fill as noted in these drawings.

## EARTHWORK

1. Prior to construction, the contractor shall verify that the soil conditions are adequate for 1,500 psf allowable soil bearing pressure. If needed, structural fill shall be provided beneath footings.
2. Clearing: Remove all existing structures and associated foundations, slabs, fencing, asphalt, concrete, and incidental structures as necessary for project completion. The building area shall be stripped of all vegetation, topsoil and debris. Following stripping, all fill soils and any remaining loose natural soils shall be excavated to expose competent natural soils.
3. Proof roll the entire building pad area with normal compaction equipment to check for the presence of unsuitable fills, soft spots, or other undesirable materials or conditions. Remove sub-grade materials that are unsuitable and replace with compacted structural fill or 2,000 psi lean concrete.
4. Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less than 3"and with not more than 15 percent passing a No. 200 sieve. It shall be compacted to at least 95 percent of the maximum laboratory density as determined by ASTM D 1557 for fill beneath footings and 90 percent for fill beneath floor slabs. All fill shall be tested. Compacted structural fill shall be placed in lifts not exceeding 8" in uncompacted thickness.
5. Floor slabs thicknesses shall be required by the plans and underlain by a granular layer at least 4" thick. The granular layer shall have a maximum size less than 1" with not more than 5 percent passing a #200 sieve and shall be compacted to at least 90 percent of the maximum laboratory density as determined by ASTM D 1557.
6. Consult the project specifications for further earthwork requirements.

## CONCRETE

1. Materials, unless noted otherwise:
   a. Normal weight aggregates — ASTM C 33
      i. Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% - 18% for large top size aggregates (1.1/2") or 8% - 22% for smaller top size aggregates (1" or 3/4") retained on each sieve below the top size and above the No. 100. The range for the No. 30 and No.50 sieves shall be 8% - 15% retained in each. To avoid gap gradation the following shall occur:
         1. The percent retained on two adjacent sieves shall not fall below 5%.
         2. The percent retained on three adjacent sieves shall not fall below 8%.
         3. When the percent retained on two adjacent sieves is less than 8%, the total retained on either of these sieves and the adjacent outside sieve shall be at least 13%. See ACI 302 Section 5.4.3.3 for more information.
      ii. Maximum Aggregate Size shall not be larger than:
         1. 3.1/2" or 1/5 the narrowest dimension of the forms
         2. 1/3 the depth of the slab
         3. 3/4 the minimum clear spacing between bars
   b. Reinforcing Steel — ASTM 615 Grade 60 (Fy = 60 ksi) Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3.
   c. Deformed Bar Anchors (DBA) — ASTM A496
   d. Headed Stud Anchors (HSA) — ASTM A108
   e. Anchor Rods
      Typical, uno — ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and hardened washers Grade A
   f. Admixtures:
      i. Air-entraining admixtures shall comply with ASTM C 260 (when used).
      ii. Calcium chloride shall not be added to the concrete mix.
      iii. Water-reducing admixture shall comply with ASTM C 494/C 494M, Type A (when used)
      iv. Retarding admixture shall comply with ASTM C 494/C 494M, Type B (when used).
      v. Water-reducing and retarding admixture shall comply with ASTM C 494/C 494M, Type D (when used).
      vi. High-range, water-reducing admixture shall comply with ASTM C 494/C 494M, Type F (when used).
      vii. High-range, water-reducing and retarding admixture shall comply with ASTM C 494/C 494M Type G (when used).
      viii. Admixture manufacturer shall have ISO 9001 Quality Certification. To ensure compatibility all admixtures shall be from the same manufacturer.
   g. Type I/II cement complying with ASTM C-150 shall be used for all concrete. Cement source shall remain the same for the entire job.
   h. The water/cementitious materials ratios shall meet the requirements of Table 19.3.2.1 of ACI 318-14.
   i. Fly Ash - ASTM C618, Class F – 25% maximum cementitious content.
   j. Provide air entraining as recommended by Table 19.3.3.1 of ACI 318-14. Concrete that extends above grade and is exposed to freezing and thawing while moist shall be air-entrained.
   k. Concrete shall have, at the point of delivery, a slump of 4". Determine the slump by ASTM C143. Slump tolerance shall meet the requirements of ACI 117. When use high-range, water-reducing admixture or plasticizing admixture conforming to ASTM C494, it is permitted to increase the slump of concrete 8" maximum with a verified slump of 2 to 4 in. before the admixture is added.
   l. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
2. Compressive strengths of concrete at 28 days shall be as follows
   a. Footings & Foundation Walls — Strength 3,500 psi; Classification F1, S0, W0, C0
   b. Interior Slabs on Grade — Strength 3,000 psi; Classification F0, S0, W0, C0
   c. All Site Concrete with Reinforcement — Strength 5,000 psi; Classification F3, S0, W1, C2
   d. All Site Concrete without Reinforcement — Strength 4,500 psi; Classification F3, S0, W1, C2
3. Only one grade or type of concrete shall be poured on the site at any given time.
4. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
   a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
5. Reinforcement shall have the following concrete cover:

| | Clear Cover |
|---|---|
| a. Cast-in-place Concrete | |
| i. Cast against and permanently exposed to earth | 3" |
| ii. Formed concrete exposed to earth or weather: | |
| #6 thru #18 bars | 2" |
| #5 and smaller bars | 1.1/2" |
| iii. Concrete not exposed to weather or in contact with ground: | |
| Slabs, Walls and their piers, Joists; #11 bars and smaller | 3/4" |
| Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals | 1.1/2" |

6. Detailing:
   a. Lap splice lengths shall be detailed to comply with the "Concrete Reinforcing Bar Lap Splice Schedule" on sheet S601. Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all International Building Code requirements and shall have a current ICC-ES report or IAPMO Certification. Use "Lenton" Standard Couplers (ICC ER-3967), "Bar-Lock" (ICC ESR-2495) or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
   b. At joints, provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
   c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48".
   d. Corner Bars: Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing. Corner bars shall lap the horizontal reinforcing with the required lap splice length. See detail 3/SS01.
   e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90-degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
   f. Horizontal wall reinforcing shall be continuous through construction and control joints.
7. Construction Joints, Control (Contraction) Joints:
   a. Construction joints in all horizontal and vertical construction joints including between top of footing and foundation walls shall be intentionally roughened to a full amplitude of approximately 1/4". The laitance on the concrete (thin, flaky layer of harden, weakened hydrated cement) shall be mechanically removed from the surface after the concrete has achieved final set. Construction joints in slabs on grade shall not exceed a distance of 125'-0" o.c. in any direction.
   b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed as soon as final set is achieved and it is okay to operate the cutter on the slab. Final set is typically achieved within the first 4 to 12 hours after the slab has been finished in an area (depending on weather conditions and concrete hydration rate; 4 hours in hot weather to 12 hours in cold weather). For early entry saw cutting, joints should be cut within the first 1 to 4 hours (depending on weather conditions and concrete hydration rate; 1 hour for hot weather and 4 hours for cold weather). Where saw cut joints cannot be cut along the entire projected length of the joint, a 90-degree hand grinder or other tool shall be used to complete the joint. Control joints may be installed by:
      i. Saw cut a depth of 1/4 the thickness of the slab (1.1/4" ± for early entry saws) minimum.
      ii. Tooled joints a depth of 1/4 the thickness of the slab
   c. For interior concrete slabs-on-grade that are to receive **no** floor covering, install construction or control joints in slabs on grade at a spacing not to exceed 24 times the slab thickness in any direction, unless noted otherwise. For interior concrete slabs-on-grade that are to receive floor coverings the contractor has the option to increase the control joint spacing to 36 times the slab thickness in any direction.
8. Construction
   a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars prior to placing concrete. Reinforcing steel for slabs on grade shall be adequately supported. Support reinforcing steel of slabs on grade with precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
   b. Concrete to be mechanically consolidated during placement per ACI standards.
   c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
   d. All embeds, anchors and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
   e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around footings and grade beams and unless detailed. Footings shall be stepped to avoid piping.
   f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.

## POST-INSTALLED ANCHORS

1. General Post-Installed Anchor Notes
   a. Do not install adhesive anchors in concrete if less than 21 days old; do not install mechanical anchors, screw anchor or powder actuated anchors in concrete less than 7 days old. Contractor must obtain written approval from the engineer to install prior to these time periods. Do not apply full load to anchors until concrete has reached 28-day compression strength.
   b. Anchors or adhesives specified in details shall be provided; alternative anchors or adhesives may be used if the contractor provides calculations demonstrating that the alternative can achieve the performance values of the specified product. These calculations, along with an ICC-ES ESR or IAPMO-UES ER approval for use in cracked concrete and compliant with the specified codes herein, must be submitted to the structural engineer prior to use.
   c. Follow all the manufacturer's recommendations and certification testing reports for anchor installation. See specific anchors below for more information.
   d. No anchor shall be installed within 1.5 anchor rod diameters of an abandoned hole that has been filled with non-shrink grout; increase distance to 3 anchor rod diameters when the abandoned hole has not been filled.
2. Adhesive Anchors
   a. For anchors in concrete, the adhesives shall be divided into two groups: Standard Adhesives and High Strength Adhesives. Standard adhesives can be used in general applications when details reference the "Standard Adhesive Embedment Schedule" on sheet S601. High Strength adhesive groups will be specified for the particular application in the drawings and details. When a High Strength Adhesive is specified, the contractor has the option to use any of the adhesives in the High Strength group. When a Standard Adhesive is specified, the contractor has the option to use any of the adhesives in either group. See below for the acceptable adhesives in each group.
      i. Standard Adhesive Group for anchors in concrete includes the following adhesives:
         1. SET-XP (ICC-ES ESR-2508) by Simpson Strong-Tie
         2. Pure 50+ (ICC-ES ESR-3576) by Dewalt
         3. AC100+ Gold (ICC-ES ESR-2582) by Dewalt
         4. HIT-RE 100 (ICC-ES ESR-3829) by Hilti, Inc.
   b. Adhesive shall be within the manufacturer's recommended life time and prior to expiration date. Do not use adhesive that has not been stored per manufacturer's recommendations or may have experienced freeze thaw cycles or extreme heat.
   c. Do not install adhesive anchor in wet or damp hole unless product is approved for such conditions without strength reduction. Do not install adhesive anchors if concrete temperature is below 50-degree F unless adhesive is approved for lower temperature without strength reduction. Refer to manufacturer's published installation instructions.
   d. Follow all the manufacturer's recommendations and certification testing reports regarding hole cleaning prior to adhesive installation. All holes shall be drilled with ANSI standard bits designed for concrete. Diamond core drilled holes are not allowed unless indicated in specific details or approved by the structural engineer prior to use.
3. Mechanical Anchors
   a. For concrete, the mechanical anchor shall be Kwik Bolt TZ (ICC-ES ESR-1917) by Hilti Inc., Strong-Bolt 2 (ICC-ES ESR-3037) by Simpson Strong-Tie Inc. or Power-Stud+ SD2 (ICC-ES ESR-2502) by Dewalt.
4. Screw Anchors
   a. For concrete, the screw anchors shall be Titen HD (ICC-ES ESR-2713 for concrete only) by Simpson Strong-Tie, or Screw-Bolt + (ICC-ER ESR-3889 for concrete only) by DeWalt, or Kwik HUS-EZ (ICC-ES ESR-3027 for concrete only) by Hilti Inc.
5. Powder Actuated Fasteners
   a. For fasteners driven into steel, the fastener shall be X-U P8 TH Universal Knurled Shank Fastener (ICC-ES ESR-2269) by Hilti Inc., PDPA (ICC-ES ESR-2138) by Simpson Strong-Tie Inc. or 8mm Head Spiral CSI Drive Pin (ICC-ES ESR-2024) by Dewalt.

## WOOD

1. Materials:
   a. Dimensional Lumber
      i. All dimensional lumber shall be #2 Douglas Fir-Larch or better unless noted otherwise.
   b. Engineered Lumber
      i. Rimboard shall be TimberStrand LSL Rim Board by Trus-Joist Corporation, Versa-Rim by Boise Cascade Corporation, SolidStart LSL by LP Corporation, LSL or LVL Rim Board by RedBuilt or OSB RigidRim RimBoard by Roseburg (Rimboard shall be 1.1/8" thick, minimum), Rimboard LSL by RedBuilt or an approved equal.
   c. Sheathing
      i. Wood sheathing shall meet the minimum performance criteria given in APA PRP-108, Performance Standards and Policies for Structural-Use Panels, Form E445, Voluntary Product Standard PS 1 & PS 2 and Performance Standard for Wood-Based Structural-Use Panels, Form S350, and Structural Plywood, Form H860. Panels shall be unsanded plywood or oriented strand board (OSB) and shall be interior grade with exterior glue and have the minimum following thickness and span rating indicated in the "Sheathing Schedule at Roof and Floor" on sheet S601.
   d. Fasteners
      i. General framing and carpentry shall be connected as per "Minimum Nailing Schedule" on sheet S601 unless noted otherwise.
      ii. All fasteners, including nails, for preservative-treated and fire retardant-treated wood shall be hot-dipped zinc-coated galvanized steel or stainless steel.
      iii. Bolts for general wood to wood connections shall be ASTM A307A or A36 with ASTM A563A hex nuts and ATSM F844 washers, Grade A, unless noted otherwise.
   e. Framing connectors:
      i. All framing anchors, connectors, post caps, hold downs, column bases, joist hangers, etc. shall be provided by Simpson Strong-Tie as indicated on these plans. If the contractor elects to substitute for another manufacturer, the contractor shall submit a revised connector list, prior to construction, that includes the following information:
         1. Specified connector indicated on these plans
         2. Requested substitution connector
         3. Allowable capacity of the requested substitution connector
2. All wood (with the exception of engineered lumber) in contact with concrete, masonry or soil shall be pressure treated.
3. Built-up beams and columns shall be constructed as per "Built-up Wood Member Detail" on sheet S521 unless noted otherwise.
4. All walls shall have a minimum of two top plates. Splices in top plates shall be staggered a minimum of 4 ft from the nearest splice in adjoining top plate.


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LICENSED PROFESSIONAL STRUCTURAL ENGINEER
BRETT KARL GOODMAN
No. 7991094-2203
STATE OF UTAH
3/4/2020

| REVISIONS | | | | |
|---|---|---|---|---|
| No. | DATE | REMARKS | BY | APV |
| | | | | |

| | | |
|---|---|---|
| DESIGNED | J.P. | 3/4/2020 DATE |
| DRAWN | C.C. | 3/4/2020 DATE |
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| APPROVED | J.P. | |
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Salt Lake City Department of Airports

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SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

GENERAL STRUCTURAL NOTES

BID DOCUMENTS

BHB PROJECT# 200108
DRAWING S001
PROJECT 54 1019 1765
SHEET 80 OF 127

# GENERAL STRUCTURAL NOTES

## LEGEND OF MARKS AND ABBREVIATIONS

| | | | |
|---|---|---|---|
| AB | ANCHOR BOLT(S) | k | KIP(S) = 1000 POUNDS |
| ABV | ABOVE | KLF | KIPS PER LINEAL FOOT |
| ALT | ALTERNATE | KSF | KIPS PER SQUARE FOOT |
| APPROX | APPROXIMATE | | |
| ARCH | ARCHITECT(URAL) | LBS | POUNDS |
| | | LF | LINEAL FOOT |
| BLDG | BUILDING | LVL | LAMINATED VENEER LUMBER |
| BLW | BELOW | | |
| BM | BEAM | MAX | MAXIMUM |
| B.N. | BOUNDARY NAILING | MECH | MECHANICAL |
| BOT | BOTTOM | MFR | MANUFACTURER |
| BRG | BEARING | MIN | MINIMUM |
| BTWN | BETWEEN | MISC | MISCELLANEOUS |
| CC. | CENTER-TO CENTER | NIC | NOT IN CONTRACT |
| C.J. | CONST/CONTROL JOINT | NTS | NOT TO SCALE |
| COL | COLUMN | | |
| CONC | CONCRETE | O.C. | ON CENTER |
| CONST | CONSTRUCTION | O.F. | OUTSIDE FACE |
| CTR | CENTER | OPNG | OPENING |
| CW-x | CONCRETE WALL | OPP | OPPOSITE |
| DB | DECK BEARING | PAF | POWDER-ACTUATED FASTENER |
| DBA | DEFORMED BAR ANCHOR | PCF | POUNDS PER CUBIC FOOT |
| DBE | DECK BEARING ELEVATION | PLF | POUNDS PER LINEAL FOOT |
| DBL | DOUBLE | PSF | POUNDS PER SQUARE FOOT |
| DET | DETAIL | PSI | POUNDS PER SQUARE INCH |
| DIA | DIAMETER | PT | POINT |
| DIM | DIMENSION | | |
| DN | DOWN | REINF | REINFORCING |
| DWG | DRAWING | REQD | REQUIRED |
| DWL | DOWEL | R.D. | ROOF DRAIN |
| | | RTU | ROOF TOP UNITS |
| EA | EACH | | |
| E.N. | EDGE NAILING | SHT | SHEET |
| E.F. | EACH FACE | SI | SPECIAL INSPECTION |
| E.J. | EXPANSION JOINT | SIM | SIMILAR |
| ELEC | ELECTRICAL | SMU | SUSPENDED MECHANICAL UNITS |
| ELEV | ELEVATION | SOG | SLAB-ON-GRADE |
| EQUIP | EQUIPMENT | SQ | SQUARE |
| EQ | EQUAL | STAG | STAGGERED |
| E.W. | EACH WAY | STD | STANDARD |
| EXT | EXTERIOR | STL | STEEL |
| | | STR | STRUCTURAL |
| FC-x | CONTINUOUS FOOTING MARK | STS | SELF TAPPING SCREWS |
| F.D. | FLOOR DRAIN | | |
| FDN | FOUNDATION | T&B | TOP AND BOTTOM |
| F.F. | FINISHED FLOOR | TEMP | TEMPERATURE |
| F.N. | FIELD NAILING | THDS | THREADS |
| FR-x | RECTANGULAR FOOTING | T.O. | TOP OF |
| FS-x | SQUARE FOOTING MARK | TOC | TOP OF CONCRETE |
| FT | FOOT | TOD | TOP OF DECK |
| FTG | FOOTING | TOF | TOP OF FOOTING |
| FTS-x | THICKENED SLAB MARK | TOW | TOP OF WALL |
| | | TYP | TYPICAL |
| GA | GAUGE | | |
| GALV | GALVANIZED | UNO | UNLESS NOTED OTHERWISE |
| GSN | GENERAL STRUCTURAL NOTES | | |
| | | VERT | VERTICAL |
| HORIZ | HORIZONTAL | | |
| HSA | HEADED STUD ANCHOR | W/ | WITH |
| HT | HEIGHT | WT | WALL THICKNESS |
| | | WWF | WELDED WIRE FABRIC |
| ICC | INTERNATIONAL CODE COUNCIL | WWM | WELDED WIRE MESH |
| IBC | INTERNATIONAL BUILDING CODE | | |
| I.F. | INSIDE FACE | | |
| IN. | INCH | | |
| INT | INTERIOR | | |
| JT | JOINT | | |
| JST | JOIST | | |

# REQUIREMENTS FOR SPECIAL INSPECTION, MATERIAL TESTING, AND STRUCTURAL OBSERVATION

## STATEMENT OF SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance (including structural testing), as required by section 1704 and 1705 of the 2018 IBC, shall be provided by an independent agency employed by the owner for the items in this section and other areas of the approved construction documents, unless waived by the building official.

The names and credentials of the Special Inspectors to be used shall be submitted to the Building Official for approval.

| | |
|---|---|
| **Responsibilities of the Special Inspector** | |
| | Special Inspector shall review all work listed in the special inspection schedules herein for conformance with the approved construction plans, specifications and 2018 IBC. |
| | Testing and inspection reports shall be sent on a weekly basis to the architect, engineer, building official and contractor for review. All items not in compliance shall be brought to the immediate attention of the contractor for correction, and if uncorrected, to the architect, engineer and building official. |
| | Once corrections have been made by the contractor, the special inspector shall submit a final signed report to the building official stating that the work requiring special inspection was, to the best of the special inspector's knowledge, in conformance with the approved construction plans, specifications and 2018 IBC. |
| **Responsibilities of the Contractor** | |
| | The contractor shall submit a written statement of responsibility to the owner and the building official prior to the commencement of work in accordance with 2018 IBC section 1704.4. This statement shall indicate that the contractor will coordinate and cooperate with the required inspections contained herein. |
| | The contractor shall notify the designated special inspector that work is ready for inspection at least 24 hours before said inspection is required. |
| | All work requiring special inspection shall remain open and accessible until it has been observed by the special inspector and deemed acceptable through inspection report. |
| | Special inspection during fabrication is not required if the fabricator is registered and approved by the authority having jurisdiction to perform such work without special inspection. Upon completion of fabrication, the approved fabricator shall submit a certificate of compliance for submittal to the building official. |
| | The contractor shall be responsible for their own quality control including materials, fabrication, erection, etc. |

## SOILS CONSTRUCTION INSPECTIONS

**Soils (2018 IBC Section 1705.6)**

| ITEM FOR VERIFICATION & INSPECTION | INSPECTION FREQUENCY | | COMMENTS |
|---|---|---|---|
| | CONTINUOUS | PERIODIC | |
| Site Preparation | - | X | Verify that the site has been prepared in accordance with the Earthwork section of the General Structural Notes and per recommendations by a geotechnical engineer (if required) prior to placement of prepared fill. |
| Fill Material | X | - | Verify that the material being used, the maximum lift thickness and the in-place dry density of the compacted fill material comply with the Earthwork section of the General Structural Notes and per recommendations by a geotechnical engineer (if required) during placement and compaction. |
| Continuous Footing Backfill: at least one test for each 40 linear feet or less of wall length, but no fewer than 2 tests. | - | X | At each compacted backfill layer. |
| Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing. | - | X | At each compacted backfill layer. |
| See specifications for further requirements. | - | - | |

## CONCRETE CONSTRUCTION INSPECTIONS

**Concrete (2018 IBC Section 1705.3, Table 1705.3, and Section 1705.12) The following concrete elements require special inspection:**

All concrete footings, All concrete walls, including foundation walls, Interior concrete slab-on-grade.

| ITEM FOR VERIFICATION & INSPECTION | INSPECTION FREQUENCY | | COMMENTS |
|---|---|---|---|
| | CONTINUOUS | PERIODIC | |
| Protection of concrete during cold and hot weather | - | X | |
| Verify materials used including use of the required mix design | - | X | Verify mix design meets strength and exposure requirements listed on General Structural Notes |
| Formwork | - | X | Verify shape, location and member dimensions |
| Bolts installed in concrete | X | - | Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used. Prior to and during concrete placement. |
| Embeds and Inserts installed in concrete | X | - | Prior to and during concrete placement. |
| Concrete reinforcing steel placement | - | X | Verify that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report. |
| Concrete placement and samples | X | - | Cylinders, slump, temperature and air-entrainment shall be done for every 150 cubic yards or each day's production if the day's production is less than 150 cubic yards nor less than once for each 5000 sq. ft of surface area for slabs and walls. |
| See specifications for further concrete testing requirements. | - | - | |

## WOOD CONSTRUCTION INSPECTIONS

| ITEM FOR VERIFICATION & INSPECTION | INSPECTION FREQUENCY | | COMMENTS |
|---|---|---|---|
| | CONTINUOUS | PERIODIC | |
| **Wood diaphragms and shear walls (2018 IBC Sections 1705.5, 1705.11.1 and 1705.12.2)** | | | |
| All wood diaphragms and shear walls | - | X | Verify wood panel sheathing, grade, thickness and nominal size of framing members, adjoining panel edges, nailing, bolting, anchoring (including hold downs) and other fastening of components within the lateral force resisting system. |

## POST-INSTALLED ANCHOR INSPECTIONS

| ITEM FOR VERIFICATION & INSPECTION | INSPECTION FREQUENCY | | COMMENTS |
|---|---|---|---|
| | CONTINUOUS | PERIODIC | |
| **Post-Installed Anchors and Reinforcing Bars (2018 IBC Section 1705.1.1)** | | | |
| Adhesive Anchors and Reinforcing Bars | X | - | Special inspection shall be performed per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHOR section of the General Structural Notes prior to installation of epoxy and anchor rod. If the anchor is not installed in a horizontal, upwardly inclined or overhead orientation meant to resist sustained tension loads, special inspection may be reduced to a periodic frequency. |
| Mechanical Anchors and Screw Anchors | - | X | Special inspection shall be provided per manufacturer's requirements and approved ICC-ES reports noted in POST-INSTALLED ANCHOR section of the General Structural Notes prior to installation of mechanical or screw anchor. |

## STRUCTURAL OBSERVATION PROGRAM

If structural observations are required, they shall be done by the Engineer of Record or an approved subordinate at the stages of construction listed in the Construction Notification Phases section of these notes. At the conclusion of the project, the designated structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies that to the best of the structural observer's knowledge have not been resolved (See IBC 2018 1704.6).

| STRUCTURAL OBSERVATION PROGRAM REQUIRED BY CODE: | YES | NO |
|---|---|---|
| | | X |

## CONSTRUCTION MILESTONE SCHEDULE

**CONTRACTOR TO NOTIFY ENGINEER AT THE FOLLOWING CONSTRUCTION PHASES:**

| | |
|---|---|
| **CONCRETE** | |
| Footings, stem walls and piers | Prior to pouring concrete |
| **WOOD** | |
| Wood roof sheathing | After substantial portion of framing is completed and prior to roofing |

## DEFERRED SUBMITTALS

For the purposes of this section, deferred submittals are defined as per section 107.3.4.1 of the IBC 2018. Submittal documents for deferred submittal items shall be submitted to the engineer, architect and building official for their review for general conformance with the design of the building.

**DEFERRED STRUCTURAL SUBMITTALS FOR THIS PROJECT ARE**

Pre-Fabricated Drive Canopy


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REGISTERED PROFESSIONAL STRUCTURAL ENGINEER
BRETT KARL GOODMAN
No. 7991094-2203
STATE OF UTAH
3/4/2020

| REVISIONS | | | | |
|---|---|---|---|---|
| NO. | DATE | REMARKS | BY | APV |
| | | | | |

| | | |
|---|---|---|
| DESIGNED | J.P. | 3/4/2020 DATE |
| DRAWN | C.C. | 3/4/2020 DATE |
| CHECKED | J.P. | 3/4/2020 DATE |
| APPROVED | J.P. | DATE |
| DATE | | 3/4/2020 |

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DEPARTMENT OF AIRPORTS
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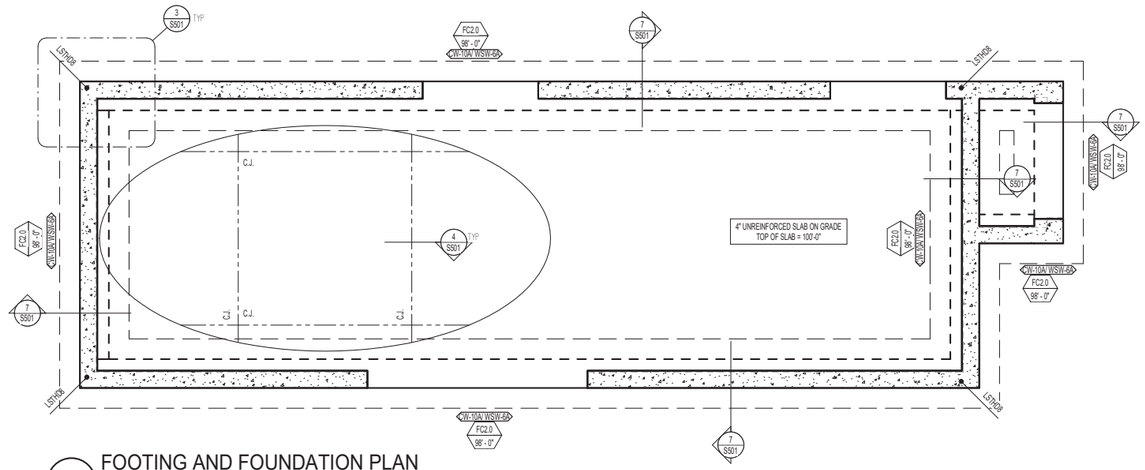
SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

SPECIAL INSPECTION

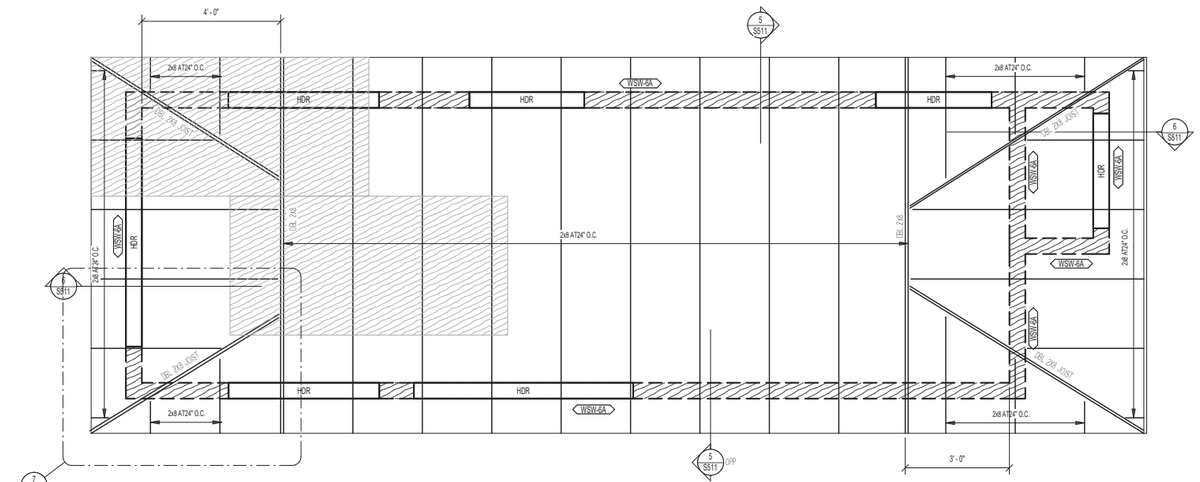
BID DOCUMENTS

BHB PROJECT# 200108
DRAWING S002
PROJECT 54 1019 1765
SHEET 81 OF 127




## 1 FOOTING AND FOUNDATION PLAN

1/2" = 1'-0" 0" 1'-0" 2'-0" 4'-0"




## 2 ROOF FRAMING PLAN

1/2" = 1'-0" 0" 1'-0" 2'-0" 4'-0"

## MARKS AND SYMBOLS LEGEND

| | |
|---|---|
| | FOOTING DESIGNATION / TOP OF FOOTING ELEVATION |
| | INDICATES CONCRETE WALL. DASHED WALLS STOP AT DECK S601 |
| | INDICATES WOOD STUD WALL. DASHED WALLS STOP AT DECK S601 |
| CW-x/WSW-x | INDICATES WOOD SHEARWALL (AND TYPE) OVER CONCRETE WALL (AND TYPE). SEE SCHEDULES ON SHEET(S) S601 |
| WSW-x | INDICATES WOOD SHEARWALL TYPE. SEE SCHEDULE ON SHEET S601 |
| HDR | INDICATES (3)2X6 HEADER WITH 1K1B STUD AT EACH END OF HEADER.* |
| FCx.x | INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S601 |
| LSTH08 | INDICATES HOLD DOWN TYPE. SEE SCHEDULE ON SHEET S601 |
| | INDICATES PLYWOOD ROOF SHEATHING, SEE SCHEDULE ON SHEET S601 |
| C.J. | INDICATES CONTROL / CONSTRUCTION JOINT, SEE DETAIL(S) S601 |

## FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
4. SEE DETAILS 1/SS01 & 2/SS02 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
5. SEE DETAIL 4/SS01 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
6. SEE DETAIL 5/SS01 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
7. SEE DETAIL 6/SS01 FOR TYPICAL SILL PLATE DETAIL.
8. SEE DETAIL 8/SS01 FOR DRILLED PIER DETAIL FOR STEEL COLUMN AT CANOPY.

## ROOF FRAMING DESIGN LOADS

ROOF LOADS:

| | |
|---|---|
| DEAD LOAD | 20 PSF |
| SNOW LOAD | 20 PSF |
| TOTAL LOAD | 40 PSF |

## ROOF FRAMING PLAN NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE DETAIL 1/SS11 FOR FRAMING AROUND ALL OPENINGS.
3. SEE DETAIL 2/SS11 FOR TYPICAL BUILT-UP BEAM DETAIL.
4. SEE DETAIL 3/SS11 FOR TYPICAL TOP PLATE SPLICE DETAIL.
5. SEE DETAIL 4/SS11 FOR TYPICAL TOP PLATE SPLICE SCHEDULE AT PIPE.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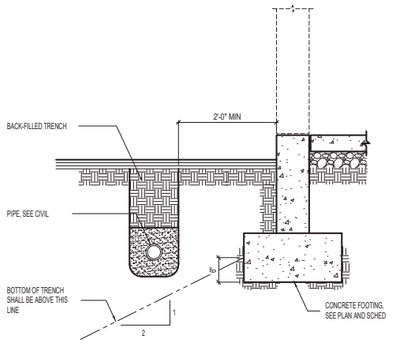
SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

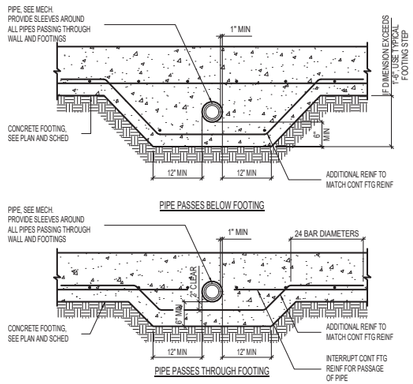
FOOTING AND FRAMING PLAN AND ROOF FRAMING PLAN

BID DOCUMENTS

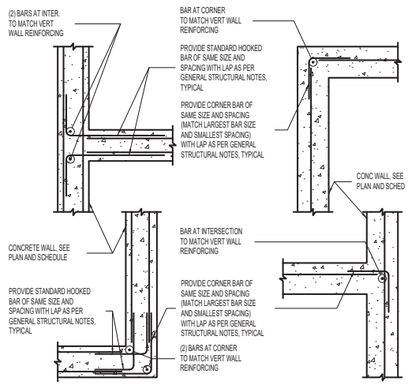
BHB PROJECT# 200108
DRAWING S101
PROJECT 54 1019 1765
SHEET 82 OF 127



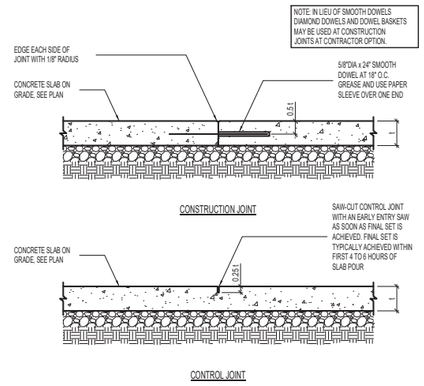

1 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING — NO SCALE



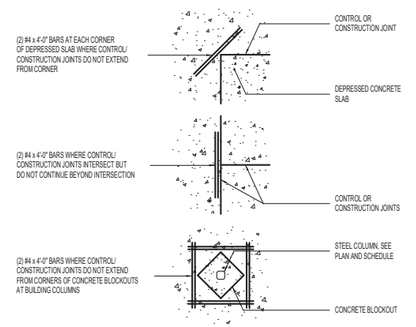

2 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING — NO SCALE



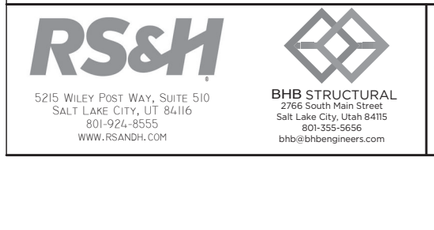

3 TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS [PLAN VIEW] — NO SCALE



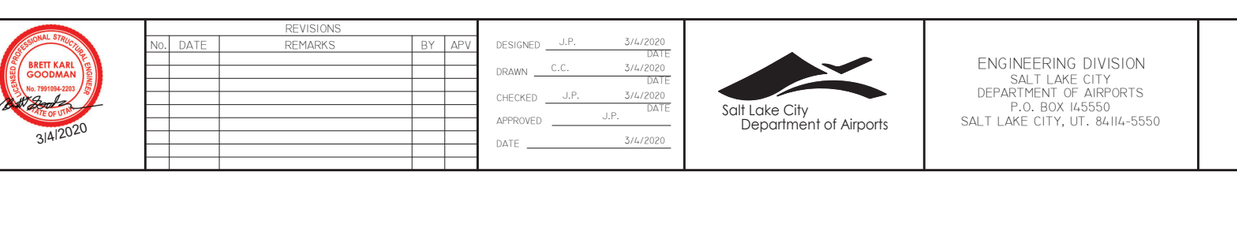

4 TYPICAL SLAB ON GRADE JOINT DETAILS — NO SCALE




5 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW] — NO SCALE




6 SILL PLATE BOLTING DETAIL [PLAN VIEW] — NO SCALE




7 TYPICAL EXTERIOR WOOD STUD WALL BEARING ON CONCRETE FOUNDATION WALL — NO SCALE

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LICENSED PROFESSIONAL STRUCTURAL ENGINEER
BRETT KARL GOODMAN
No. 7991094-2203
STATE OF UTAH
3/4/2020

REVISIONS

| No. | DATE | REMARKS | BY | APV |
|---|---|---|---|---|

| | | |
|---|---|---|
| DESIGNED | J.P. | 3/4/2020 DATE |
| DRAWN | C.C. | 3/4/2020 DATE |
| CHECKED | J.P. | 3/4/2020 DATE |
| APPROVED | J.P. | |
| DATE | | 3/4/2020 |

Salt Lake City Department of Airports

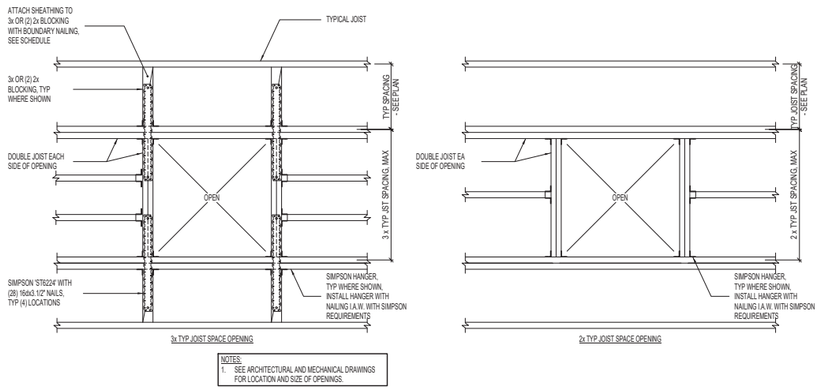
ENGINEERING DIVISION
SALT LAKE CITY
DEPARTMENT OF AIRPORTS
P.O. BOX 145550
SALT LAKE CITY, UT. 84114-5550

SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

DETAILS

BID DOCUMENTS

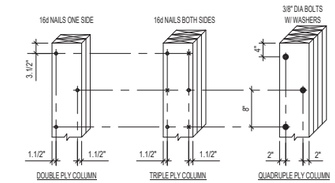
DRAWING S501
PROJECT 200108
SHEET 83 OF 127



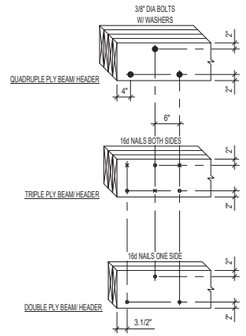

NOTES:
1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND SIZE OF OPENINGS.

## 1 2x OR 3x FRAMING AT ROOF OPENINGS [PLAN VIEW]

NO SCALE



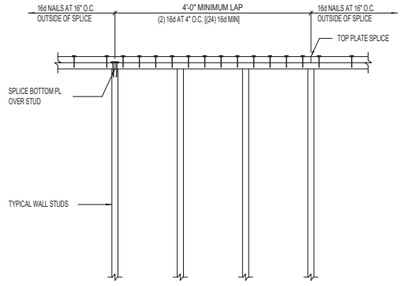

COLUMNS




BEAMS

## 2 TYPICAL BUILT-UP WOOD MEMBER DETAIL

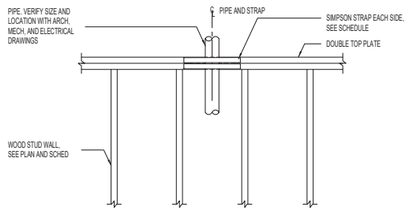
NO SCALE




## 3 TYPICAL TOP PLATE SPLICE DETAIL

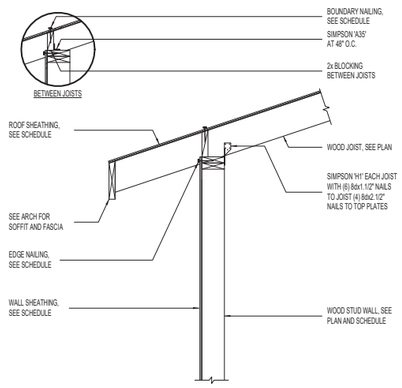
NO SCALE

| TOP PLATE SPLICE | |
|---|---|
| HOLE SIZE | STRAPS |
| LESS THAN OR EQUAL TO 1/3 STUD WIDTH | NONE REQUIRED |
| GREATER THAN 1/3 AND LESS THAN OR EQUAL TO 2/3 STUD WIDTH | (2) SIMPSON CTS218 WITH (24) 10dr1.1/2" NAILS OR EQUIVALENT |
| GREATER THAN 2/3 STUD WIDTH | (4) SIMPSON CTS218 WITH (24) 10dr1.1/2" NAILS [(2) CTS218 EACH SIDE OF WALL] OR EQUIVALENT |



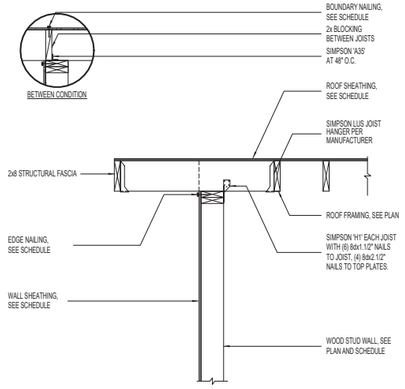

## 4 TOP PLATE SPLICE SCHEDULE AT PIPE

NO SCALE



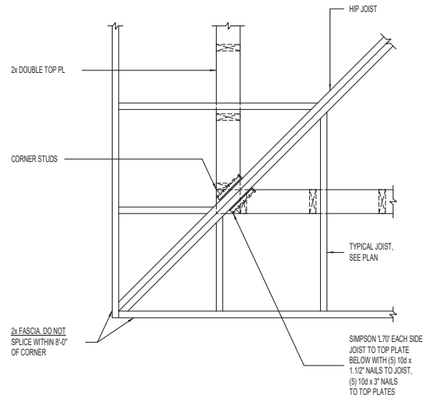

## 5 TYPICAL WOOD STUD WALL SECTION AT ROOF EAVE

NO SCALE




## 6 DETAIL AT GABLE END

NO SCALE




## 7 CORNER SOFFIT FRAMING [PLAN VIEW]

NO SCALE

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BRETT KARL GOODMAN
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LICENSED PROFESSIONAL STRUCTURAL ENGINEER
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RELOCATION OF GATES 10 & 11

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BHB PROJECT# 200108
DRAWING S511
PROJECT 54 1019 1765
SHEET 84 OF 127

## CONCRETE FOOTING SCHEDULE

| MARK | WIDTH | LENGTH | DEPTH | REINFORCING CROSSWISE | | | | REINFORCING LENGTHWISE | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | No. | SIZE | LENGTH | SPACING | No. | SIZE | LENGTH | SPACING | |
| FC2.0 | 2'-0" | CONT | 12" | - | #4 | 1'-6" | 48" | 3 | #4 | CONT | EQ | |

CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
4. RUN CONTINUOUS FOOTING REINFORCEMENT THROUGH SPOT FOOTINGS.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
6. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

1 CONCRETE FOOTING SCHEDULE

NO SCALE

## CONCRETE WALL SCHEDULE

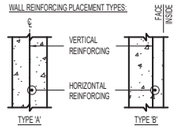
| MARK | THICKNESS | REINFORCING | | | WALL TYPE | COMMENTS |
|---|---|---|---|---|---|---|
| | | VERTICAL | HORIZONTAL | TOP AND BOTTOM | | |
| CW-10A | 10" | #4 AT 16" O.C. | #5 AT 15" O.C. | (1) #5 | A | |
| | | | | | | |

### WALLS NOT DESIGNATED IN PLAN

| THICKNESS | REINFORCING | |
|---|---|---|
| | VERTICAL | HORIZONTAL |
| 6" | #4 AT 18" O.C. | #4 AT 16" O.C. |
| 8" | #4 AT 18" O.C. | #4 AT 12" O.C. |
| 10" | #4 AT 16" O.C. | #5 AT 15" O.C. |

ABBREVIATIONS:
E.F. EACH FACE
I.F. INSIDE FACE
O.F. OUTSIDE FACE

WALL REINFORCING PLACEMENT TYPES:




CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

2 CONCRETE WALL SCHEDULE

NO SCALE

## CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

| BAR SIZE | f'c = 3000psi & f'c = 3500 psi | | | | f'c = 4000psi & f'c = 4500 psi | | | | f'c = 5000psi | | | | f'c = 6000psi | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | REGULAR | | TOP | | REGULAR | | TOP | | REGULAR | | TOP | | REGULAR | | TOP | |
| | CLASS | | CLASS | | CLASS | | CLASS | | CLASS | | CLASS | | CLASS | | CLASS | |
| | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
| #3 | 17" | 22" | 22" | 28" | 15" | 19" | 19" | 24" | 13" | 17" | 17" | 22" | 12" | 16" | 15" | 20" |
| #4 | 22" | 29" | 29" | 37" | 19" | 25" | 25" | 32" | 17" | 22" | 22" | 29" | 16" | 20" | 20" | 27" |
| #5 | 28" | 36" | 36" | 47" | 24" | 31" | 31" | 40" | 22" | 28" | 28" | 36" | 20" | 26" | 26" | 33" |
| #6 | 33" | 43" | 43" | 56" | 29" | 37" | 37" | 48" | 26" | 33" | 33" | 43" | 24" | 31" | 31" | 40" |
| #7 | 48" | 63" | 63" | 81" | 42" | 54" | 54" | 70" | 37" | 49" | 49" | 63" | 34" | 44" | 44" | 58" |
| #8 | 55" | 72" | 72" | 93" | 48" | 62" | 62" | 80" | 43" | 56" | 55" | 72" | 39" | 51" | 51" | 66" |
| #9 | 62" | 81" | 81" | 105" | 54" | 70" | 70" | 91" | 48" | 63" | 63" | 81" | 44" | 57" | 57" | 74" |
| #10 | 70" | 91" | 91" | 118" | 61" | 79" | 79" | 102" | 54" | 70" | 70" | 91" | 50" | 64" | 64" | 83" |
| #11 | 78" | 101" | 101" | 131" | 67" | 87" | 87" | 113" | 60" | 78" | 78" | 101" | 55" | 71" | 71" | 93" |
| | | | | | | | | | | | | | | | | |

TABULATED VALUES ARE FOR CASE 1 REINFORCEMENT, WHERE THE REQUIREMENTS OF TABLE BELOW ARE MET. WHERE THESE CONDITIONS ARE NOT MET, MULTIPLY THE LAP LENGTHS ( $l_d$) BY 1.5.

### REQUIREMENT FOR CASE 1 LAP LENGTHS

$d_b$ = BAR DIAMETER

| BAR CLEAR SPACING | CLEAR COVER | STIRRUPS OR TIES |
|---|---|---|
| >=$d_b$ | >=$d_b$ | >=CODE FOR MINIMUM THROUGHOUT $l_d$ |
| >=2$d_b$ | >=$d_b$ | NO REQUIREMENT |

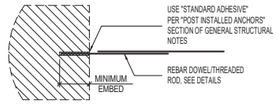
CONCRETE REINFORCING BAR LAP SPLICE NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
2. CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH.
3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.
4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
5. DO NOT SPLICE VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY SHOWN.
6. THE VALUES TABULATED IN SCHEDULE ARE FOR GRADE 60 REINFORCING BARS. FOR GRADE 75, MULTIPLY LAP LENGTHS BY 1.25 AND FOR GRADE 80, MULTIPLY BY 1.33.
7. THE VALUES TABULATED IN SCHEDULE ARE MINIMUM REQUIREMENTS. LONGER LENGTHS MAY BE USED FOR CONSTRUCTIBILITY.
8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
9. FOR EPOXY-COATED OR ZINC AND EPOXY DUAL-COATED BARS WITH CLEAR COVER < 3d $_b$ OR CLEAR SPACING <6d$_b$, MULTIPLY LAP LENGTHS BY 1.5. FOR ALL OTHER CASES MULTIPLY BY 1.2
10. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LAP LENGTHS BY 1.33 UNLESS THE AVERAGE SPLITTING TENSILE STRENGTH (F $_{ct}$) IS SPECIFIED. FOR LIGHT WEIGHT CONCRETE WHERE F$_{ct}$ IS SPECIFIED, REFER TO ACI318-14 SECTION 19.2.4.3
11. SPLICES FOR BUNDLED BARS:
    a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
    b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
    c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
    d. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
12. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

3 CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

NO SCALE

## STANDARD ADHESIVE EMBEDMENT SCHEDULE

| REBAR DOWEL (THREADED ROD SIZE) | MINIMUM EMBEDMENT INTO CONCRETE OR GROUTED MASONRY | TENSION/SHEAR CAPACITIES (ALLOWABLE) |
|---|---|---|
| #3 (3/8") | 3.3/8" | 820lb |
| #4 (1/2") | 4.1/2" | 1255lb |
| #5 (5/8") | 5.5/8" | 1670lb |
| #6 (3/4") | 6.3/4" | 2145lb |




STANDARD ADHESIVE EMBEDMENT NOTES:
1. SPECIFIC EMBEDMENTS, NOTES AND DETAILS IN DRAWINGS SHALL GOVERN OVER THIS SCHEDULE.
2. HOLE DIAMETER SHALL BE DOWEL/ROD DIAMETER PLUS 1/8". FOLLOW MANUFACTURER'S INSTRUCTIONS FOR HOLE PREPARATION.
3. PROVIDE A 3" MINIMUM EDGE DISTANCE TO CENTER OF HOLE.
4. CONTACT STRUCTURAL ENGINEER IF MINIMUM EMBEDMENTS INDICATED ABOVE ARE NOT ACHIEVABLE.
5. SEE "POST INSTALLED ANCHORS" SECTION OF GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

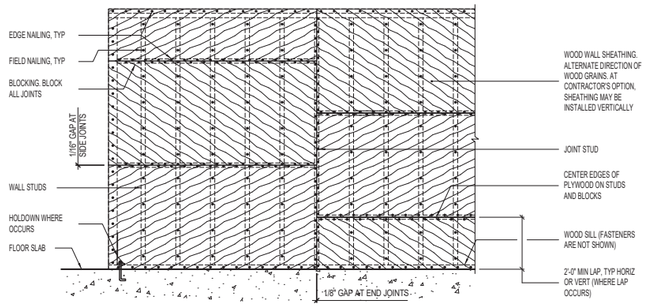
4 STANDARD ADHESIVE EMBEDMENT SCHEDULE

NO SCALE

## WOOD SHEATHING SHEARWALL SCHEDULE

| MARK | WALL FRAMING | | | | | WALL SHEATHING | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| | STUDS | TOP PLATE | BOTTOM PLATE | BOTTOM PLATE FASTENERS | STUD & BLOCK AT JOINTS | THICKNESS | NAIL SIZE | EDGE NAIL | FIELD NAIL | |
| WSW-6A | 2x6 AT 16" O.C. | (2) 2x6 | 2x6 | 5/8"□ A.B. AT 48" O.C. | 2x | 7/16" | 8d | 6" O.C. | 12" O.C. | |

WOOD SHEATHING SHEARWALL NOTES:
1. PROVIDE 1/4"x3"x0'-3" WASHER PLATES AT BOLTS. CONTRACTOR HAS OPTION TO PROVIDE A DIAGONAL SLOTTED HOLE WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH OF UP TO 1.3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
2. USE COMMON NAILS (8d DIAMETER = 0.13. AT SILL PLATE USE HOT-DIPPED OR TUMBLED GALVANIZED NAILS.
3. ANCHOR BOLTS SHALL HAVE A 7" MINIMUM EMBEDMENT INTO CONCRETE AND TERMINATE WITH A STANDARD 90° HOOK OF 3-TIMES THE ANCHOR BOLT DIAMETER AND BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL IN ACCORDANCE WITH IBC 2304.10.
4. WHERE STUDS ARE CUT FOR PLACEMENT OF ANCHOR BOLTS OR OTHER ELEMENTS, AN ADJACENT STUD SHALL BE ADDED.
5. WHERE WOOD SHEATHING IS APPLIED TO BOTH SIDES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING MEMBER SHALL BE 3" OR THICKER AND NAILS ON EITHER SIDE SHALL BE STAGGERED.
6. PRE-DRILLED HOLES ARE REQUIRED AT 20d NAILS.
7. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



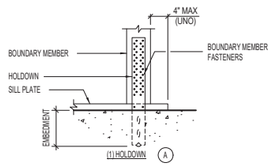

5 WOOD SHEATHING SHEARWALL SCHEDULE
[ELEVATION VIEW]

NO SCALE

## HOLDOWN SCHEDULE

| SIMPSON HOLDOWN | BOUNDARY MEMBER | BOUNDARY MEMBER FASTENERS | END LENGTH | ANCHOR ROD | EMBEDMENT | | | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | LOCATION | CAST IN PLACE | EPOXY | | |
| LSTHD8 | (2) 2x6 MIN | (20) 16d NAILS | | - | | 8" | N/A | A | NOTE 7 |
| | | | | | | | | | |

HOLDOWN NOTES:
1. ALL HOLDOWNS SPECIFIED ARE "SIMPSON - STRONG TIE", SEE GENERAL STRUCTURAL NOTES FOR SUBSTITUTIONS.
2. LAG SCREWS SHALL NOT BE USED.
3. DO NOT OVER TORQUE NUTS; SEE MANUFACTURER'S TORQUE REQUIREMENTS.
4. ANCHOR RODS SHALL BE ASTM F1554 Gr. 36 OR A36 THREADED ROD AND SHALL HAVE A 3/16"x2.1/2"x2.1/2" PLATE WASHER WITH DOUBLE HEAVY HEX NUT AT THE EMBEDMENT END INTO THE CONCRETE.
5. INCREASE FOOTING DEPTH WHERE EMBEDMENT LENGTH PLUS 3" IS GREATER THAN FOOTING DEPTH SPECIFIED.
6. WHERE CONCRETE PIER IS PROVIDED IN WALL, ANCHOR BOLT MUST FALL WITHIN THE REINFORCING TIES OF THE PIER.
7. STRAP HOLDOWNS CANNOT BE BENT OUT OF POSITION FOR WALL INSTALLATION.
8. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



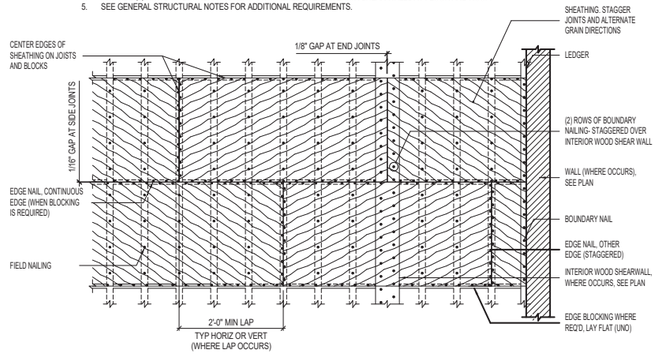

6 HOLDOWN SCHEDULE

NO SCALE

## SHEATHING SCHEDULE AT ROOF AND FLOOR

| LOCATION | WOOD SHEATHING THICKNESS | SPAN RATING | NAIL SIZE | EDGE NAIL | | FIELD NAIL | BOUNDARY NAIL | EDGE BLOCK | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| | | | | CONT EDGE | OTHER EDGE | | | | |
| ROOF | 19/32" | 40/20 | 10d | 6" | 6" | 12" | 6" | NO | |

SHEATHING NOTES:
1. MINIMUM NAIL PENETRATION INTO FRAMING: 8d-1.1/2", 10d-1.5/8".
2. USE COMMON NAILS (8d DIAMETER = 0.131", 10d DIAMETER = 0.148").
3. ALL WOOD FLOOR SHEATHING SHALL BE GLUED AND NAILED. USE A CONSTRUCTION ADHESIVE.
4. PROVIDE (2) ROWS OF BOUNDARY NAILING STAGGERED OVER INTERIOR SHEAR WALLS AT FLOOR AND ROOF.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.




7 SHEATHING SCHEDULE AT ROOF AND FLOOR
[PLAN VIEW]

NO SCALE

## MINIMUM NAILING SCHEDULE

| CONNECTION | | NAILING |
|---|---|---|
| SILL PLATE TO JOIST OR BLOCKING, FACE NAIL | | 16d AT 16" O.C. |
| BRIDGING TO JOIST, TOENAIL EACH END | | (2) 8d |
| BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE, TOE NAIL | | (3) 8d |
| RIM JOIST TO TOP PLATE, TOE NAIL | | 8d AT 6" O.C. |
| COLLAR TIE TO RAFTER, FACE NAIL | | (3) 10d |
| JACK RAFTER TO HIP, | TOE NAIL | (3) 10d |
| | FACE NAIL | (2) 16d |
| ROOF RAFTER TO 2x RIDGE BEAM, | TOE NAIL | (2) 16d |
| | FACE NAIL | (2) 16d |
| JOIST TO BAND JOIST, FACE NAIL | | (3) 16d |
| LEDGER STRIP, FACE NAIL | | (3) 16d |
| TOP PLATE TO STUD, END NAIL | | (2) 16d |
| DOUBLE STUDS, FACE NAIL | | 16d AT 24" O.C. |
| DOUBLED TOP PLATES, FACE NAIL | | 16d AT 16" O.C. |
| TOP PLATES, LAPS & INTERSECTION, FACE NAIL | | (2) 16d |
| CONTINUOUS HEADER, TWO PIECES | | 16d AT 16" O.C. ALONG EACH EDGE |
| CEILING JOISTS TO PLATE, TOENAIL | | (3) 8d |
| CONTINUOUS HEADER TO STUD, TOENAIL | | (4) 8d |
| CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL | | (3) 16d |
| CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL | | (3) 16d |
| RAFTER TO PLATE, TOENAIL | | (3) 8d |
| 1" BRACE TO EACH STUD & PLATE, FACE NAIL | | (2) 8d |
| BUILT-UP CORNER STUDS | | 16d AT 24" O.C. |
| BUILT-UP GIRDER & BEAMS | | 20d AT 32" O.C. AT TOP, BOTTOM, AND STAGGERED ON OPPOSITE SIDES. (2) 20d AT ENDS AND AT EACH SPLICE. |
| STUD TO SOLE PLATE, TOE NAIL | | (4) 8d |
| STUD TO SOLE PLATE, END NAIL | | (2) 16d |
| PLYWOOD & PARTICLEBOARD: | | SEE WOOD SCHEDULE USED IN DRAWINGS FOR NAIL SIZE AND SPACING |

MINIMUM NAILING NOTES:
1. NAILING SCHEDULE IS PER TABLE 2304.10.1 OF THE I.B.C. 2018.
2. NAILING REQUIREMENTS SHOWN HERE DO NOT REPLACE HARDWARE SHOWN ON THE PLANS OR DETAILS.
3. MINIMUM NAIL PENETRATION INTO FRAMING: 8D - 1.1/2", 10D - 1.5/8", 16D - 1.3/4" (UNO).
4. USE COMMON NAILS (8d DIAMETER = 0.131", 10d DIAMETER = 0.148", 16d DIAMETER = 0.162")
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

8 MINIMUM NAILING SCHEDULE

NO SCALE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BRETT KARL GOODMAN
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3/4/2020

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SALT LAKE CITY
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P.O. BOX 145550
SALT LAKE CITY, UT. 84114-5550

SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

SCHEDULES

BID DOCUMENTS

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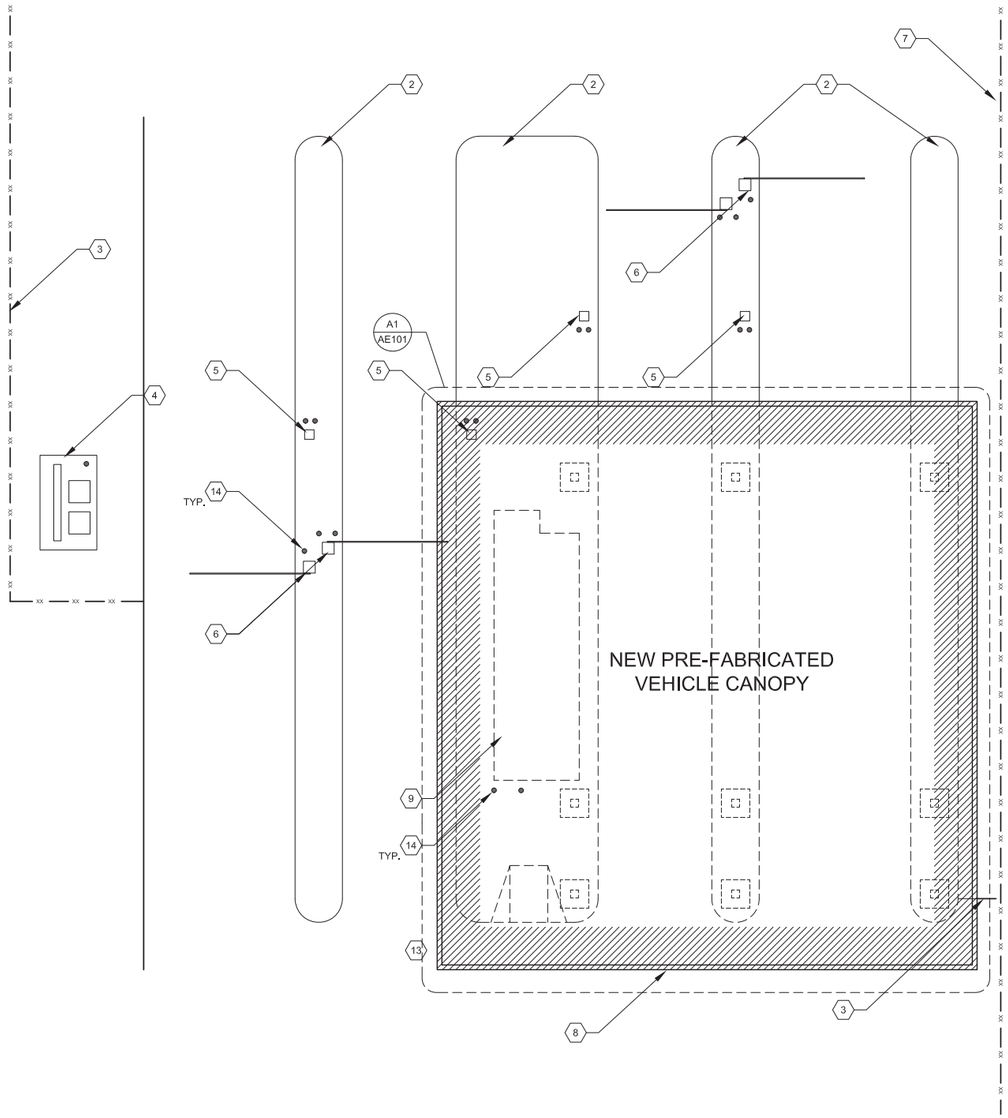
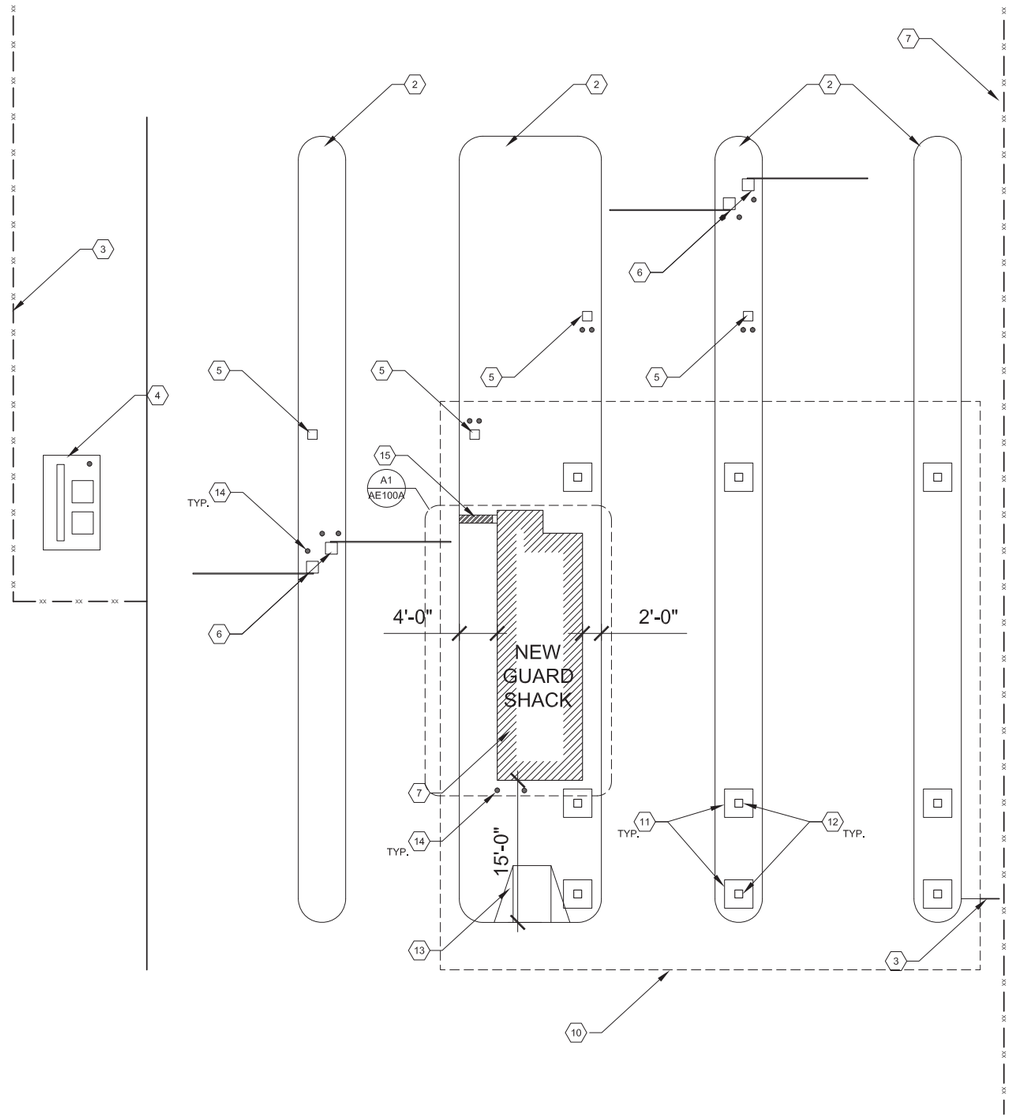
DRAWING S601
PROJECT 54 1019 1765
SHEET 85 OF 127

## ○ REFERENCE NOTES

1. OBJECT FREE AREA BOUNDARY FENCE - SEE CIVIL
2. CONCRETE TRAFFIC ISLAND - SEE CIVIL.
3. FENCELINE - SEE CIVIL
4. CASS EQUIPMENT - SEE ELECTRICAL
5. CREDENTIAL READER POST- SEE ELECTRICAL
6. TRAFFIC GATE - SEE CIVIL
7. NEW GUARD SHACK
8. NEW VEHICLE CANOPY
9. FOOTPRINT OF NEW GUARD SHACK
10. LINE OF VEHICLE CANOPY - ABOVE
11. STEEL CANOPY SUPPORT COLUMN
12. CONCRETE CANOPY SUPPORT COLUMN FOOTING / PIER
13. ACCESSIBLE CURB CUT - SEE CIVIL
14. BOLLARD - SEE CIVIL
15. DOWNSPOUT TRENCH - SEE B2/AE500




A1 SITE PLAN - ROOF LEVEL
SCALE: 1/16" = 1'-0"




A2 SITE PLAN - FLOOR PLAN LEVEL
SCALE: 1/16" = 1'-0"

Drawing: X:\2019\19177 SLCIAG\1011\02-Dwg\02-Sheets\AS100 Site Plan\AS100 - SITE PLAN.dwg
Plotted on: 3/4/2020 10:57 AM

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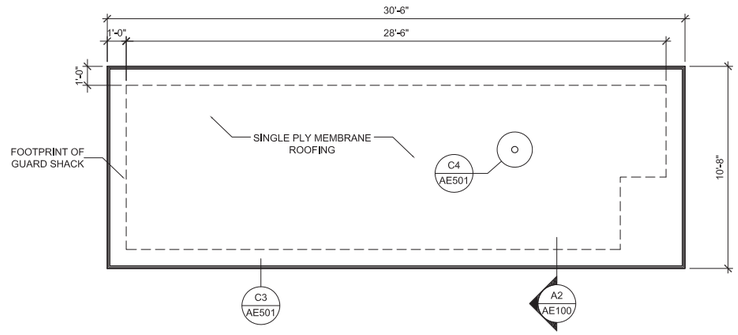
SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

SITE PLANS - ROOF LEVEL & FLOOR PLAN LEVEL

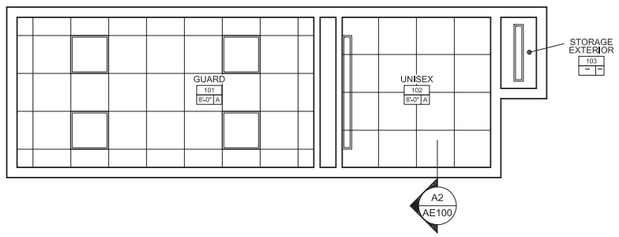
BID DOCUMENTS

DRAWING AS100
PROJECT 54 1019 1765
SHEET 86 OF 127



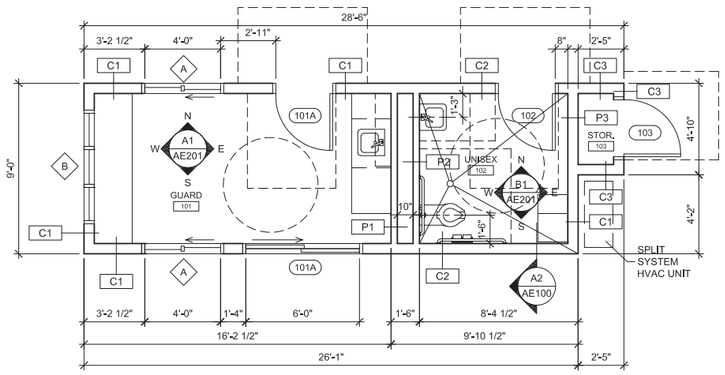

## C1 ROOF PLAN - GUARD SHACK

SCALE: 1/4" = 1'-0"



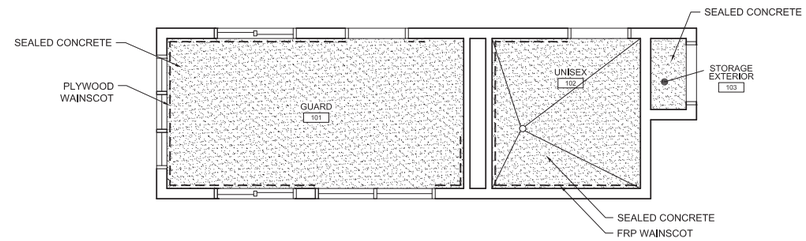

## B1 REFLECTED CEILING PLAN - GUARD SHACK

SCALE: 1/4" = 1'-0"



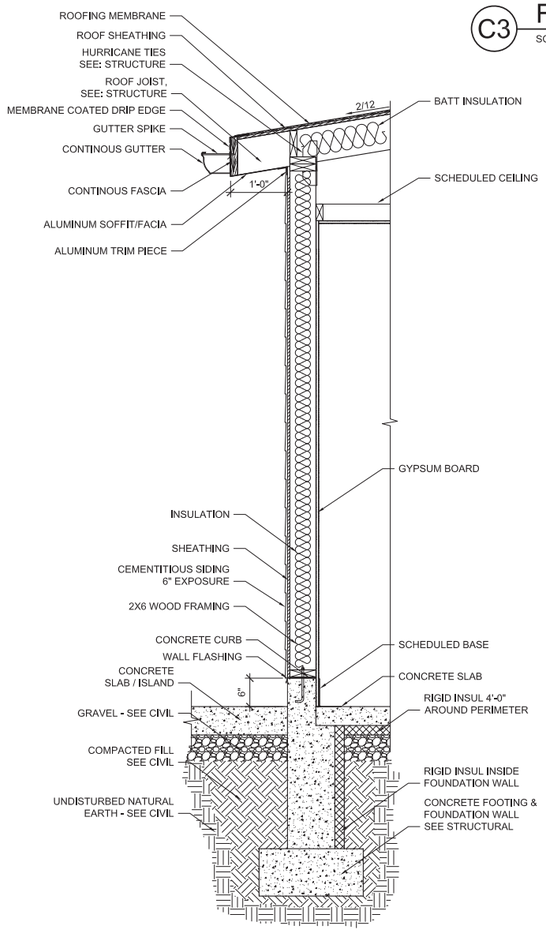

## A1 FLOOR PLAN - GUARD SHACK

SCALE: 1/4" = 1'-0"




## C3 FINISH PLAN - GUARD SHACK

SCALE: 1/4" = 1'-0"




## A2 WALL SECTION - GUARD SHACK

SCALE: 3/4" = 1'-0"

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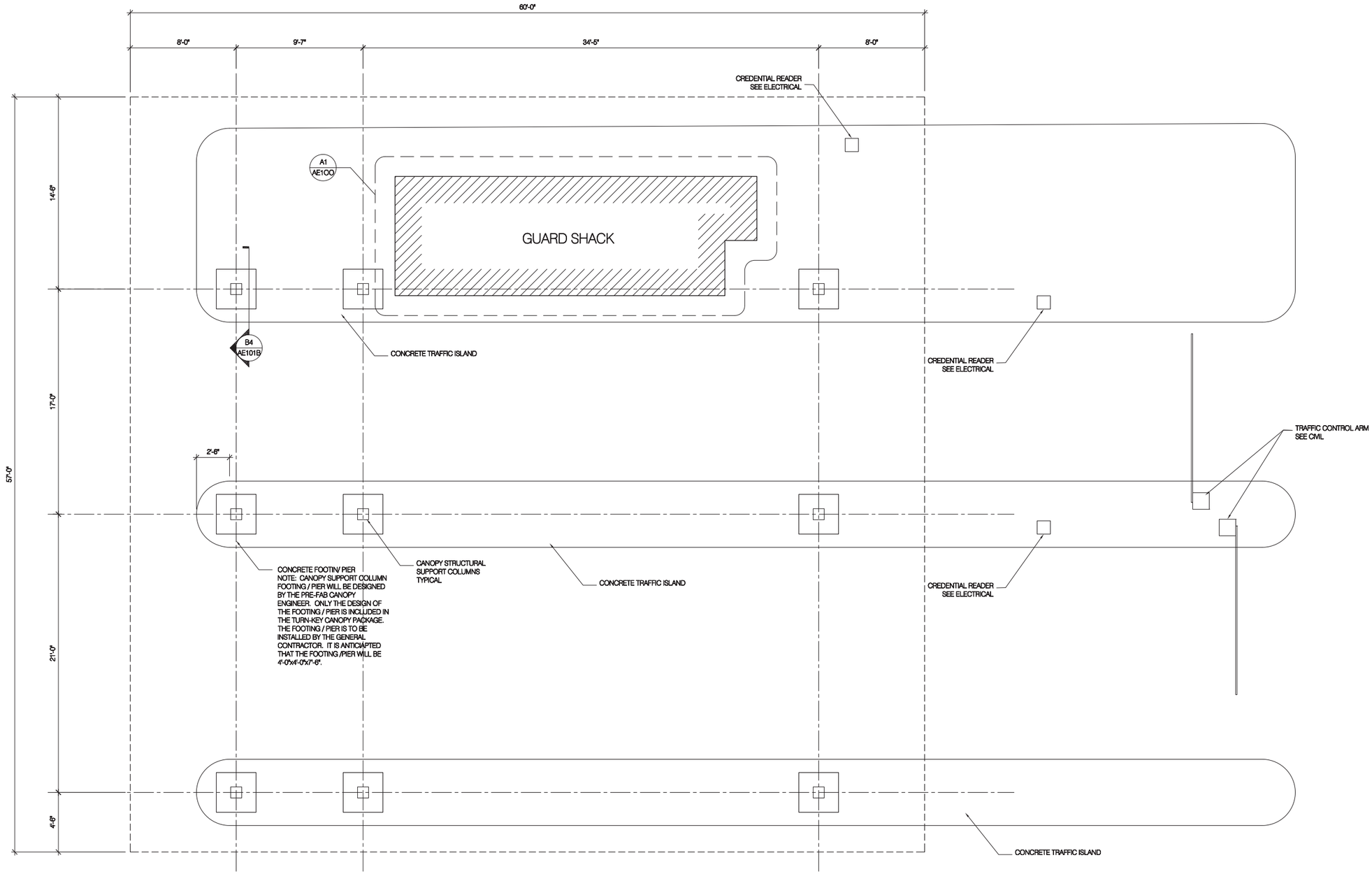
RELOCATION OF GATES 10 & 11

GUARD SHACK - FLOOR, CEILING & ROOF PLANS

BID DOCUMENTS
DRAWING AE100
PROJECT 54 1019 1765
SHEET 87 OF 127

Drawing: X:\2019\19177 SLCIAG\1011\02-Dwg\02-Sheets\A100 Floor Plans\AE100 - GUARD SHACK PLANS.dwg
Plotted on: 3/3/2020 11:48 AM




## A1 FLOOR PLAN - CANOPY

SCALE: 1/4" = 1'-0"

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RELOCATION OF GATES 10 & 11
CANOPY - FLOOR PLAN

BID DOCUMENTS

DRAWING AE101A
PROJECT 54 1019 1765
SHEET 88 OF 127

Drawing: X:\2019\19177 SLCIAG1011\02-Dwg\02-Sheets\A100 Floor Plans\AE101 - CANOPY PLANS.dwg
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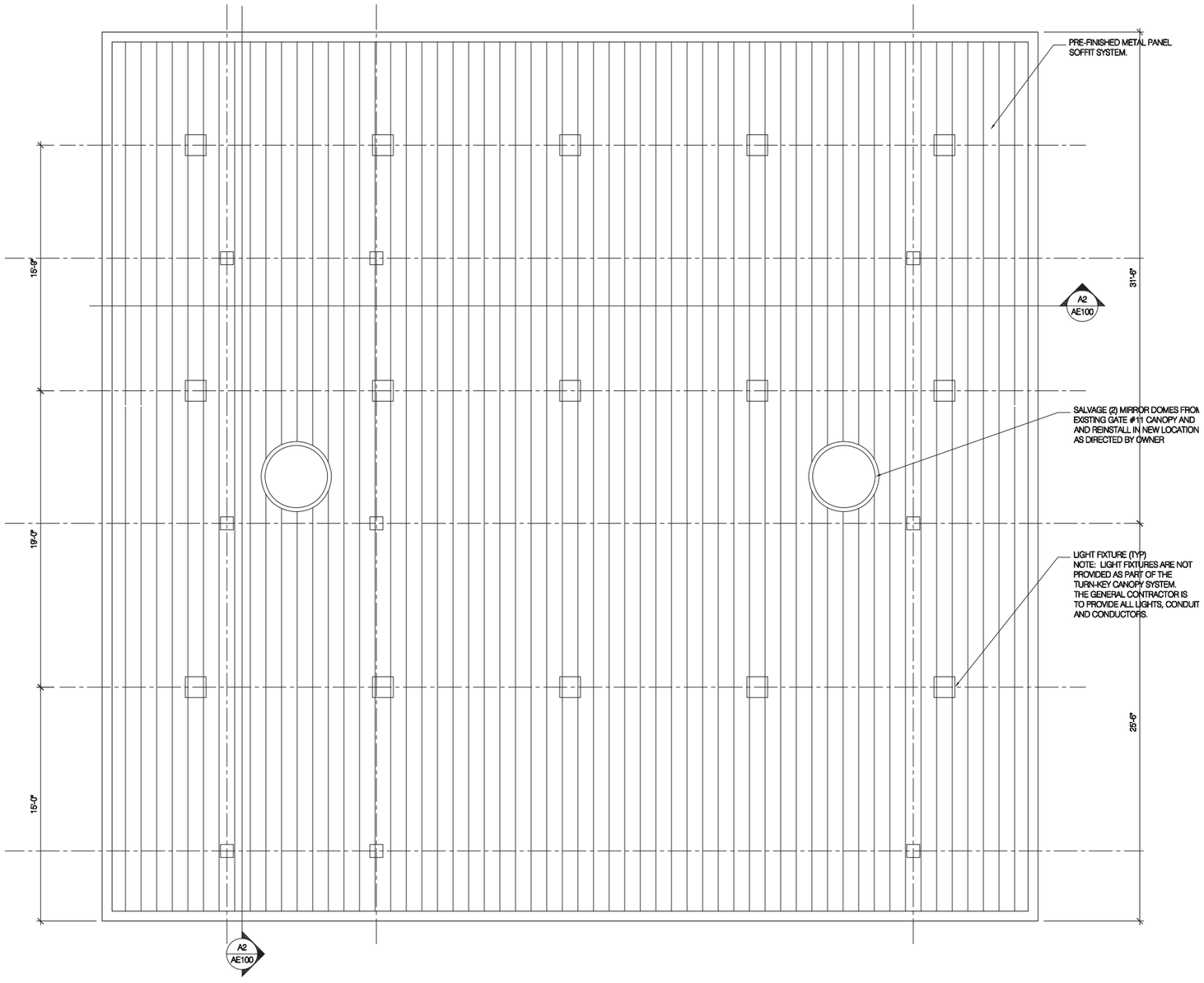
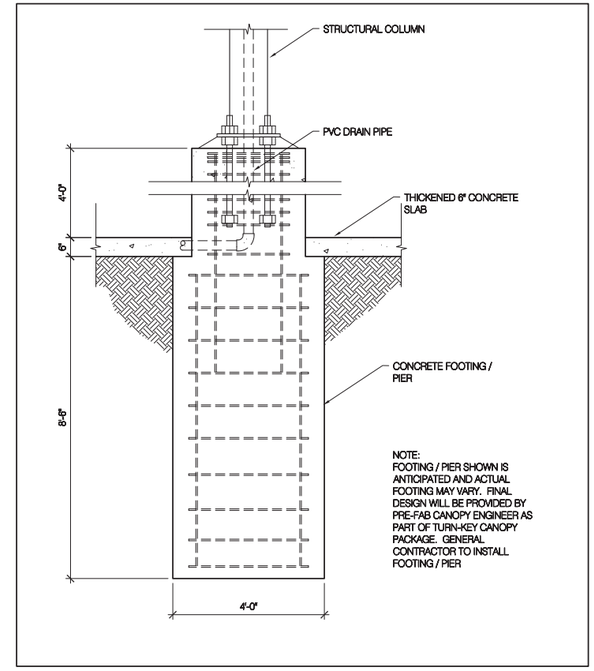


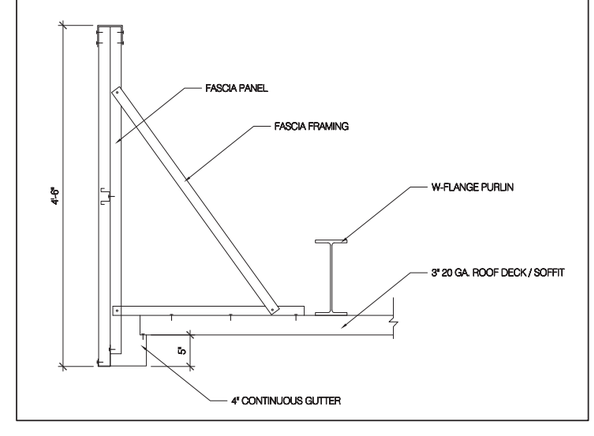

## A1 REFLECTED CEILING PLAN - CANOPY

SCALE: 1/4" = 1'-0"




## B4 ANTICIPATED CANOPY FOOTING

SCALE: 1/2" = 1'-0"




## A4 ANTICIPATED CANOPY FASCIA SECTION

SCALE: 1/2" = 1'-0"

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RELOCATION OF GATES 10 & 11

# CANOPY - REFLECTED CEILING PLAN

BID DOCUMENTS

DRAWING AE101B
PROJECT 54 1019 1765
SHEET 89 OF 127

Drawing: X:\2019\19177 SLC\AG\1011\02-Dwg\02-Sheets\A100 Floor Plans\AE101 - CANOPY PLANS.dwg
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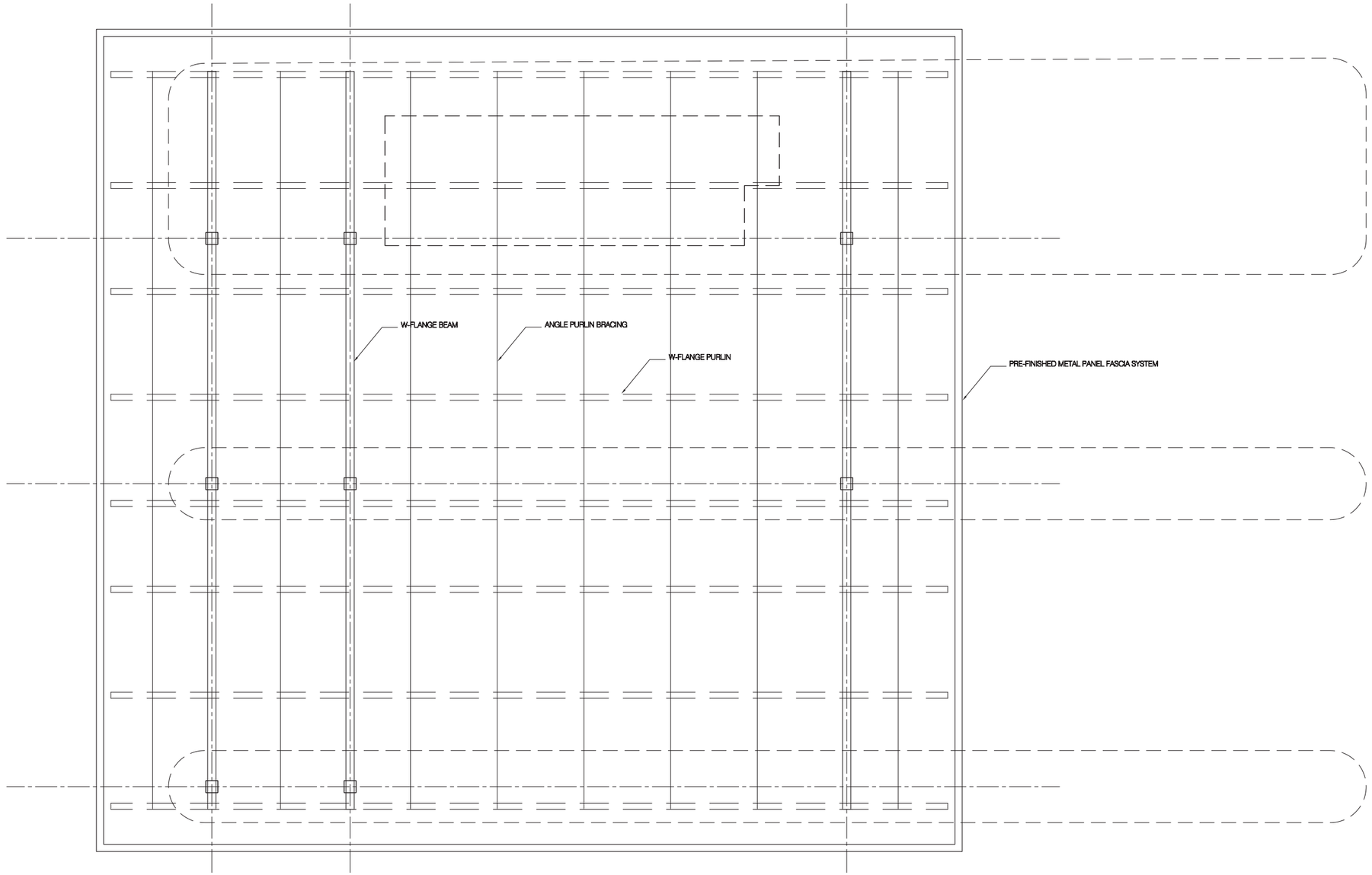


A1 ROOF PLAN - CANOPY

SCALE: 1/4" = 1'-0"

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RELOCATION OF GATES 10 & 11

CANOPY - ROOF PLAN

BID DOCUMENTS

DRAWING AE101C
PROJECT 54 1019 1765
SHEET 90 OF 127

Drawing: X:\2019\19177 SLCIAG1011\02-Dwg\02-Sheets\A100 Floor Plans\AE101 - CANOPY PLANS.dwg
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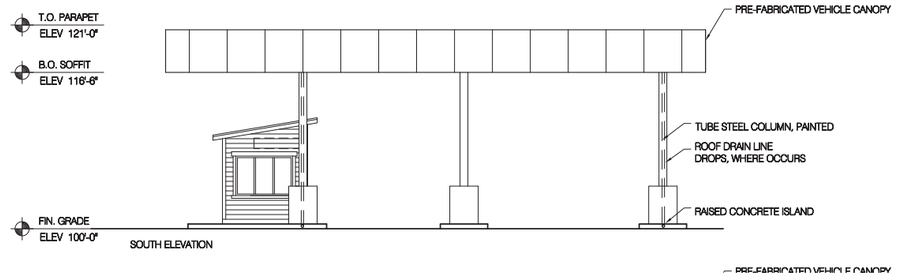
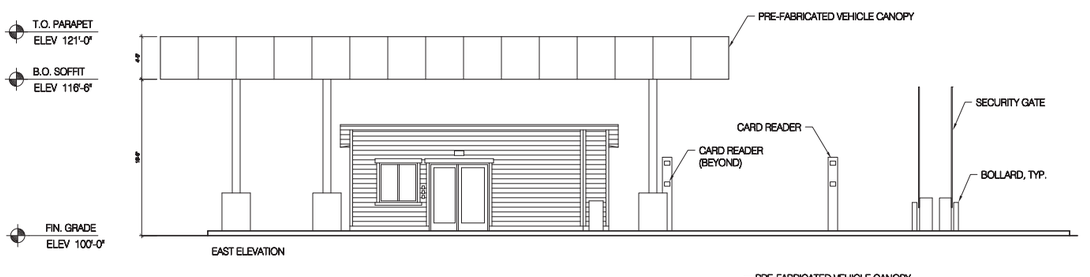


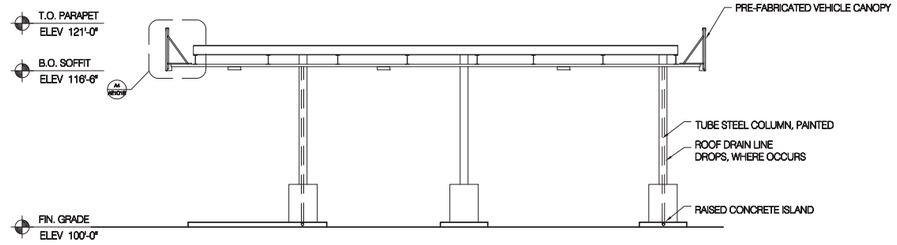

## C1 EXTERIOR ELEVATIONS - CANOPY

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



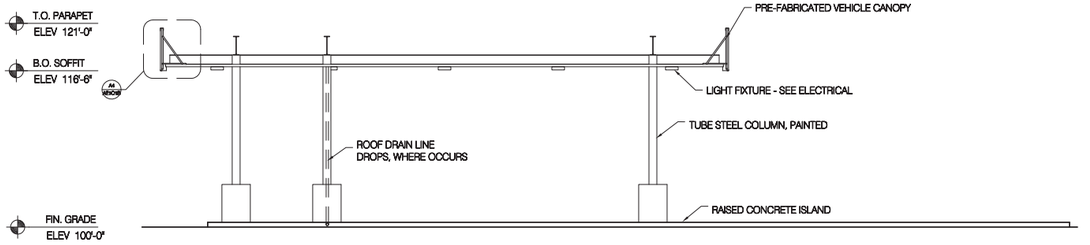

## C4 EXTERIOR ELEVATIONS - CANOPY

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



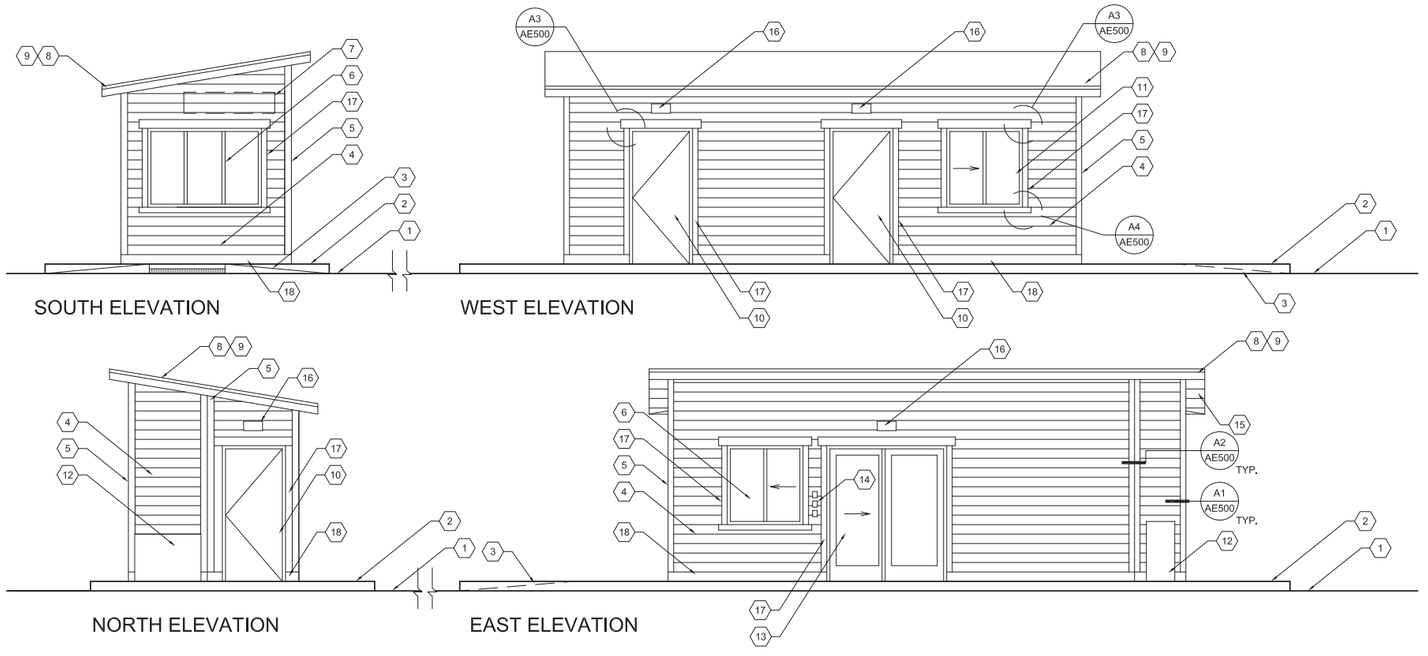

## B1 TRANSVERSE CCANOPY SECTION

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




## B4 LONGITUDINAL CANOPY SECTION

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




## A1 EXTERIOR ELEVATIONS - GUARD SHACK

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

## REFERENCE NOTES

1. DRIVE LANE - SEE CIVIL
2. CONCRETE TRAFFIC ISLAND - SEE CIVIL
3. ACCESSIBLE CURB CUT - SEE CIVIL
4. CEMENTITIOUS HORIZONTAL SIDING
5. CEMENTITIOUS TRIM BOARD
6. FIXED ALUMINUM WINDOW
7. LOCATION OF OWNER-PROVIDED LED SIGNAGE
8. SINGLE PLY ROOFING MEMBRANE
9. MEMBRANE COATED METAL DRIP EDGE
10. HOLLOW METAL DOOR
11. HORIZONTAL SLIDING ALUMINUM WINDOW
12. SPLIT SYSTEM OUTSIDE UNIT - SEE MECHANICAL
13. ALUMINUM SLIDING GLASS DOOR
14. CASS EQUIPMENT - SEE ELECTRICAL
15. ALUMINUM SOFFIT & FASCIA
16. LIGHT FIXTURE - SEE ELECTRICAL
17. CEMENTITIOUS WINDOW / DOOR TRIM
18. EXPOSED CONCRETE FOUNDATION WALL

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SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11
EXTERIOR ELEVATIONS
GUARD SHACK & CANOPY

BID DOCUMENTS

DRAWING AE201
PROJECT 54 1019 1765
SHEET 91 OF 127

Drawing: X:\2019\19177 SLCIAG\1011\02-Dwg\02-Sheets\A200 Exterior Elevations\AE201 - ELEVATIONS.dwg
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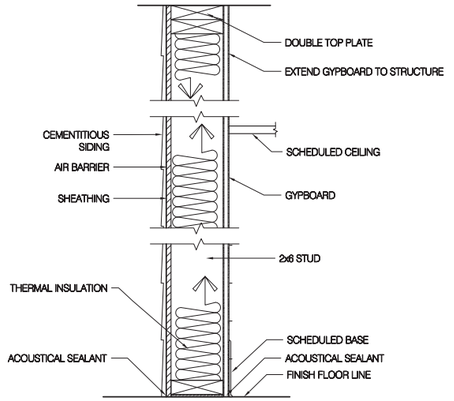
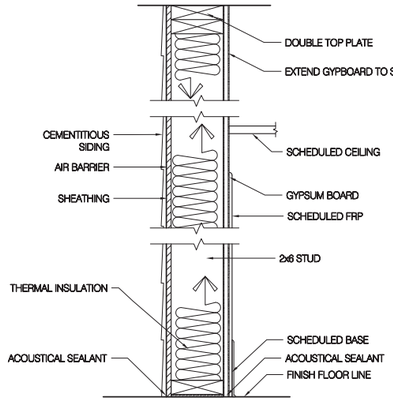
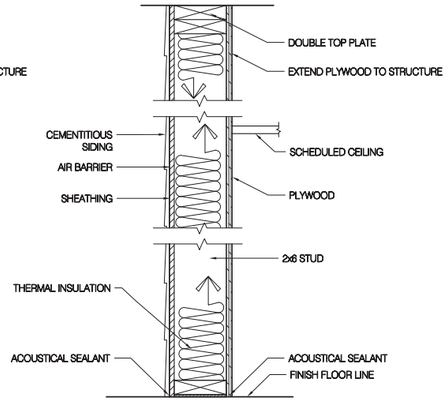


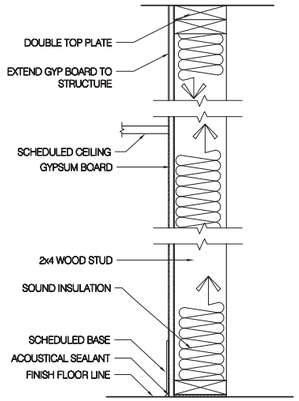

C1



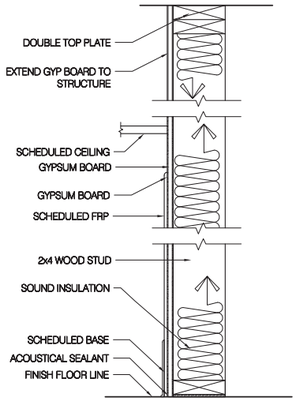

C2



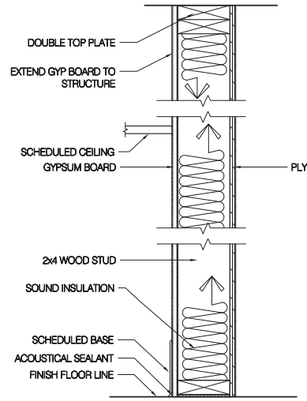

C3




P1



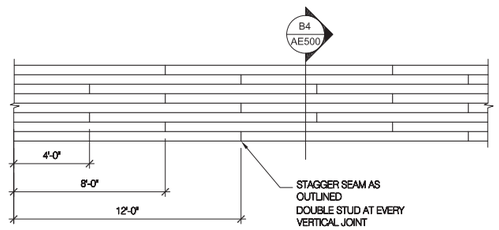

P2




P3

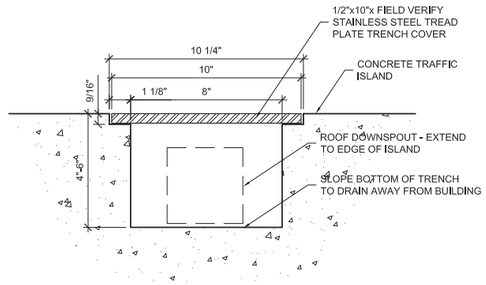
## C1 PARTITION TYPES

SCALE: 1 1/2" = 1'-0"



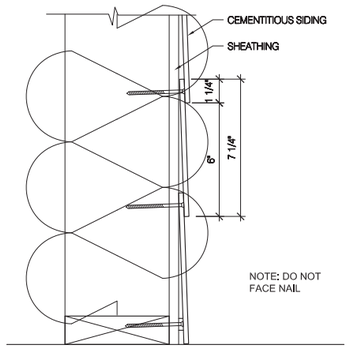

## B1 CEMENTITIOUS SIDING COURSING

SCALE: 1/4" = 1'-0"



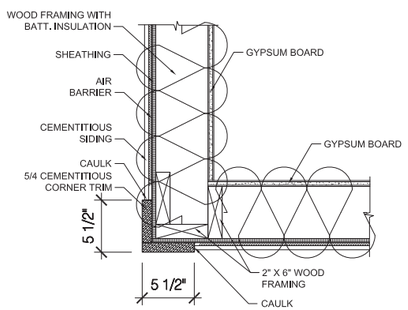

## B2 DOWNSPOUT TRENCH SECTION

SCALE: 3" = 1'-0"



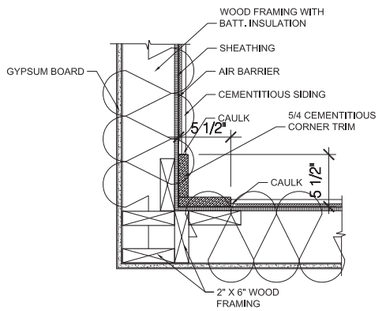

## B4 CEMENTITIOUS SIDING DETAIL

SCALE: 3" = 1'-0"



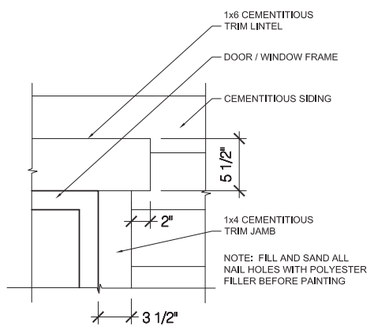

## A1 OUTSIDE CORNER DETAIL

SCALE: 1 1/2" = 1'-0"



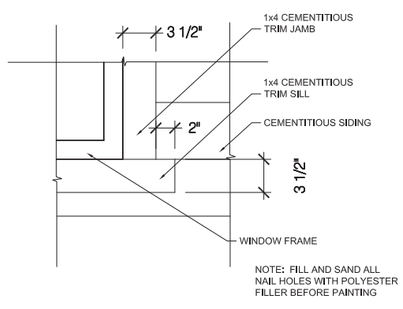

## A2 INSIDE CORNER DETAIL

SCALE: 1 1/2" = 1'-0"




## A3 DOOR / WINDOW LINTEL DETAIL

SCALE: 1 1/2" = 1'-0"




## A4 WINDOW SILL / JAMB DETAIL

SCALE: 1 1/2" = 1'-0"

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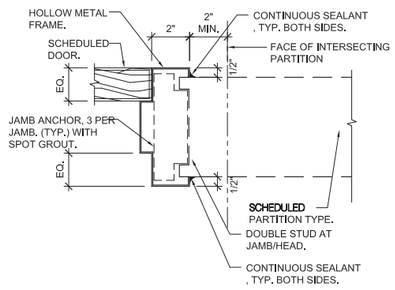
RELOCATION OF GATES 10 & 11
DETAILS

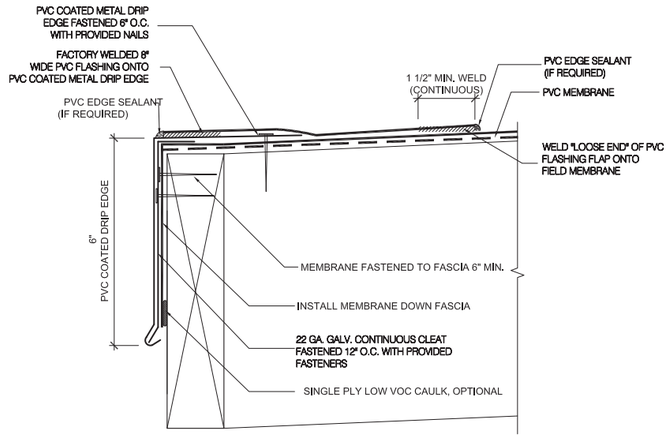
BID DOCUMENTS
DRAWING AE500
PROJECT 54 1019 1765
SHEET 92 OF 127

Drawing: X:\2019\19177 SLC\A01011\02-Dwg\02-Sheets\A500 Details\AE500 - DETAILS.dwg
Plotted on: 3/3/2020 11:48 AM



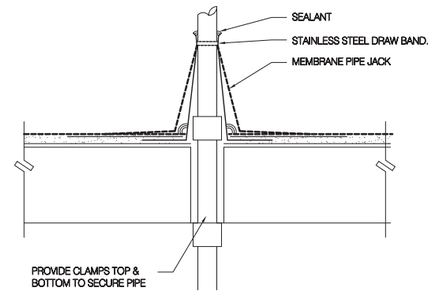

## C1 JAMB/HEAD DETAIL

SCALE: 3" = 1'-0"



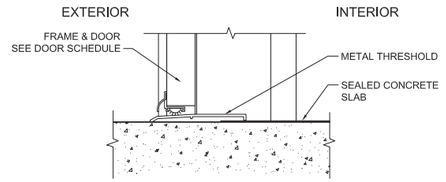

## C3 PVC PRESTO WELD DRIP EDGE

SCALE: 6"=1'-0"



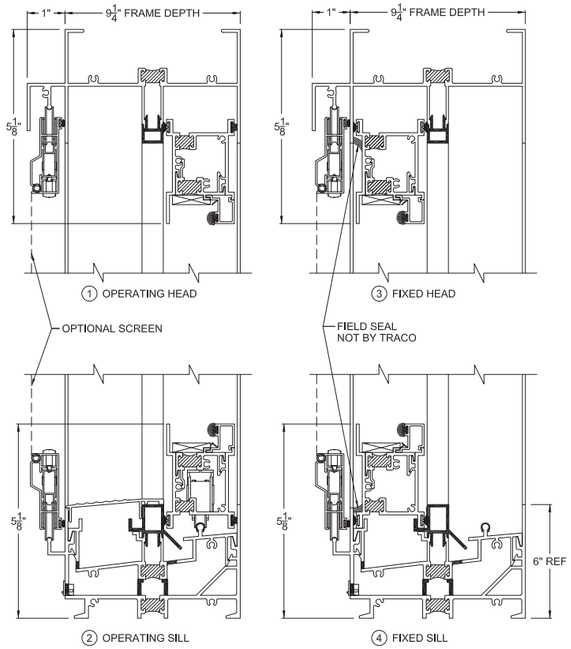

## C4 VENT/PIPE PENETRATION

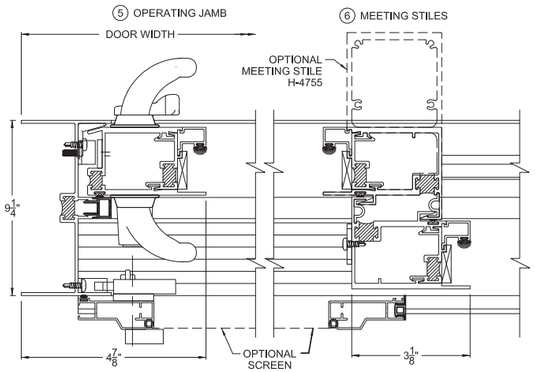
3"=1'-0"




## D5 THRESHOLD DETAIL

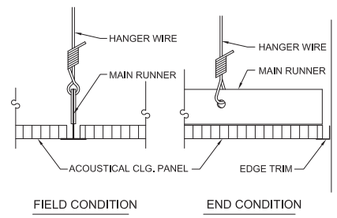
3"=1'-0"



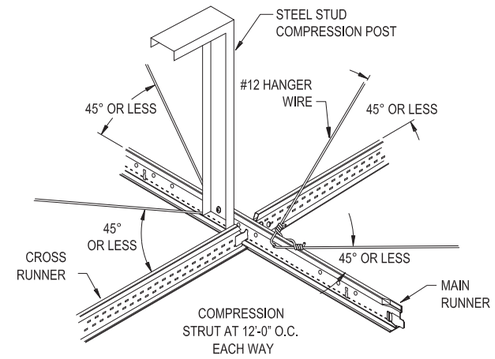

## A1 SLIDING DOOR DETAILS

SCALE: 6" = 1'-0"



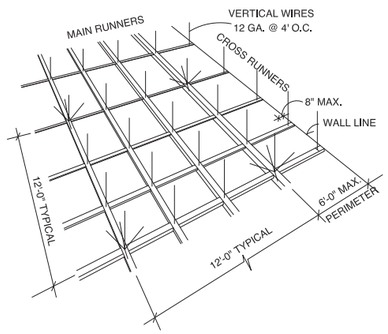

## B4 ACOUSTICAL PANEL DETAIL

NOT TO SCALE




## B5 SEISMIC BRACING DETAIL

NOT TO SCALE




## A4 SEISMIC BRACING DETAIL

NOT TO SCALE

Notes:

1. A ceiling area of 144sf or less surrounded by walls that connect directly to structure above shall be exempt from the following lateral design requirements.

2. In each orthogonal direction, one end of the ceiling grid shall be attached to the closure angle. The other end in each direction shall be attached with an ICC evaluated & approved seismic clip system and .75" of clearance to allow free horizontal movement.

3. Lateral ceiling bracing is required @ 12'-0" o.c. in both directions for all ceilings greater than 1000sf.

4. Ceiling areas over 2500sf must have siesmic separation joints.

5. Light fixtures, mechanical equipment, etc. must be supported independent of the ceiling support system.

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| REVISIONS | | | | |
|---|---|---|---|---|
| No. | DATE | REMARKS | BY | APV |
| | | | | |

DESIGNED AAH 3/4/20 DATE
DRAWN AAH/PC 3/4/20 DATE
CHECKED AAH/JBL 3/4/20 DATE
APPROVED JBL
DATE MARCH 4, 2020

Salt Lake City Department of Airports

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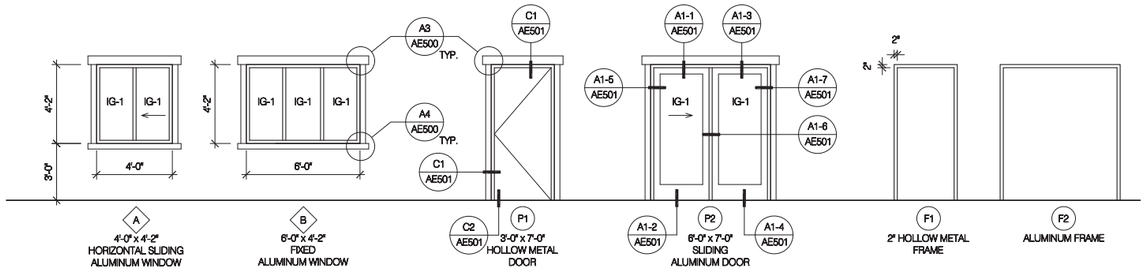
SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11 I
DETAILS

BID DOCUMENTS
DRAWING AE501
PROJECT 54 1019 1765
SHEET 93 OF 127

Drawing: X:\2019\19177 SLCIAG\10111\02-Dwg\02-Sheets\A500 Details\AE500 - DETAILS.dwg
Plotted on: 3/3/2020 11:48 AM




## B1 DOOR, WINDOW AND FRAME TYPES

SCALE: 1/4" = 1'-0"

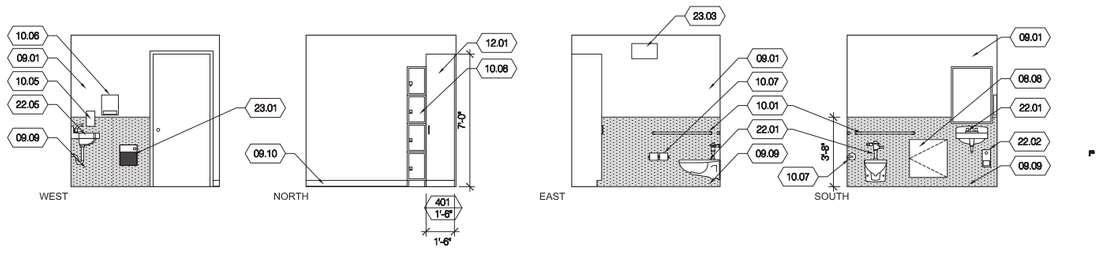
## DOOR AND FRAME SCHEDULE

| DOOR NO. | DOOR SIZE WIDTH | DOOR SIZE HEIGHT | DOOR SIZE THICKNESS | DOOR MATERIAL | DOOR TYPE | FRAME TYPE | FRAME MATERIAL | FRAME DETAIL - ALL DETAILS REFERENCE THIS DRAWING EXCEPT AS NOTED HEAD | FRAME DETAIL JAMB | FRAME DETAIL THRESHOLD | FIRE RATING LABEL | HARDWARE GROUP | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101A | 3'-0" | 7'-0" | 1 3/4" | HM | P1 | F1 | HM | C1/AE501 | C1/AE501 | C2/AE501 | N/A | 01 | |
| 101B | 6'-0" | 7'-0" | – | ALUM | P2 | F2 | ALUM | A1/AE501 | A1/AE501 | A1/AE501 | N/A | 02 | |
| 102 | 3'-0" | 7'-0" | 1 3/4" | HM | P1 | F1 | HM | C1/AE501 | C1/AE501 | C2/AE501 | N/A | 01 | |
| 103 | 3'-0" | 7'-0" | 1 3/4" | HM | P1 | F1 | HM | C1/AE501 | C1/AE501 | C2/AE501 | N/A | 01 | |

IG-1 = 1" LOW-E INSULATED GLAZING UNIT

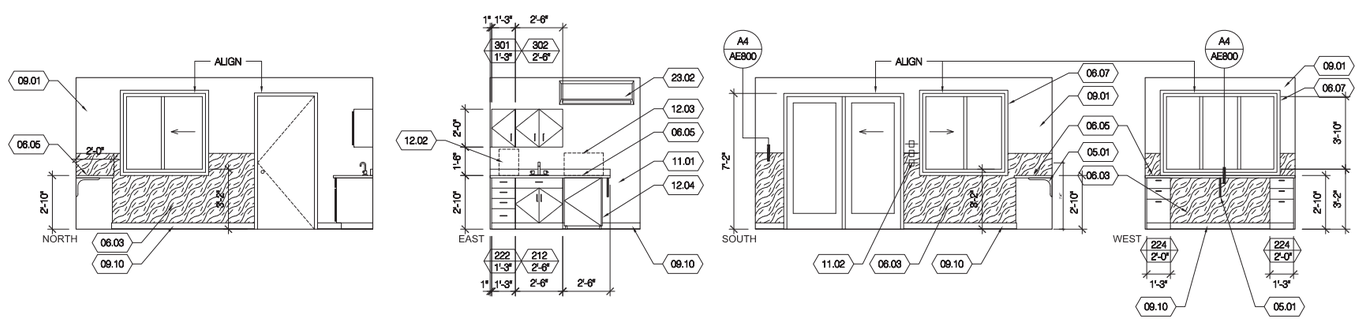
## FINISH LEGEND

| CODE | PRODUCT TYPE | MANUFACTURER | STYLE | COLOR | DESCRIPTION / LOCATION | FINISH NOTES |
|---|---|---|---|---|---|---|
| **PAINT** | | | | | | |
| P1 | PAINT | SHERWIN WILLIAMS | – | SW7005 PURE WHITE | TYPICAL WALL PAINT | . |
| P2 | PAINT | SHERWIN WILLIAMS | – | SW7622 HOMBURG GRAY | ACCENT PAINT | . |
| P3 | PAINT | SHERWIN WILLIAMS | – | SW7032 WARM STONE | EXTERIOR WALL PAINT | . |
| P4 | PAINT | SHERWIN WILLIAMS | – | SW7016 MINDFUL GRAY | EXTERIOR TRIM ACCENT PAINT | . |
| **PLASTIC LAMINATE** | | | | | | |
| PL-1 | PLASTIC LAMINATE | WILSONART | STANDARD | 4943-38 CLASSIC LINEN | COUNTERTOPS | . |
| PL-2 | PLASTIC LAMINATE | WILSONART | PREMIUM | 4939K-18 VAPOR STRANDZ | CASEWORK | . |
| **WALL BASE** | | | | | | |
| RB-1 | VINYL WALL BASE | ROPPE | 4" STANDARD | P193 BLACK-BROWN | ALL WALLS EXCPET WITH FRP WAINSCOT | . |
| **FLOOR FINISH** | | | | | | |
| SC-1 | | VARIES | – | CLEAR SEALER SATIN | ALL INTERIOR CONCRETE SLABS | . |
| **WAINSCOT** | | | | | | |
| FRP-1 | SEQUENTIA | CRANE COMPOSITES | FLAT - PEBBLE EMBOSSED | 1130 WHITE | RESTROOM WAINSCOT | . |
| PLY | 15/32" PLYWOOD | UNSPECIFIED | DOUGLAS FIR INTERIOR | SANDED CLEAR SATIN FINISH | GUARD WAINSCOT | . |
| **CEILING** | | | | | | |
| ACT-1 | LAY-IN TILE | ARMSTRONG | OPTIMA | WHITE | GUARD & RESTROOM CEILINGS | . |




## B1 INTERIOR ELEVATION - RESTROOM

SCALE: 1/4" = 1'-0"




## A1 INTERIOR ELEVATION - GUARD ROOM

SCALE: 1/4" = 1'-0"

## ROOM FINISH SCHEDULE

| ROOM NO. | ROOM NAME | FLOOR | BASE | WALLS N | WALLS E | WALLS S | WALLS W | CEILING MATERIAL | CEILING HEIGHT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| 101 | GUARD | SC | RB-1 | P-2 | P-1 | P-1 | P-1 | ACT-1 | 8'-0" | 42" PLYWOOD WAINSCOT |
| 102 | UNISEX | SC | RB-1 | P-2 | P-2, FRP-1 | P-2, FRP-1 | P-2, FRP-1 | ACT-1 | 8'-0" | 48" FRP-1 WAINSCOT |
| 103 | STORAGE | SC | NONE | P-1 | P-1 | P-1 | P-1 | NONE | 8'-0" | PLYWOOD |

## REFERENCE NOTES:

05.01 METAL SUPPORT BRACKET
06.03 PLYWOOD WAINSCOT
06.05 WORK COUNTER
06.06 WALL CABINET
06.07 2"x3/4" ACTUAL - WOOD WINDOW CASING - PAINTED
09.01 PAINTED GYPSUM BOARD
09.09 SCHEDULED FRP WALL PANEL
09.10 SCHEDULED WALL BASE
08.08 24"x24" ACCESS PANEL - PRV
10.01 ADA GRAB BAR
10.05 SOAP DISPENSER
10.06 PAPER TOWEL DISPENSER
10.07 TOILET PAPER DISPENSER
10.08 METAL LOCKERS
11.01 MINI REFRIGERATOR
11.02 CARD READER
12.01 WALL CABINET
12.02 COFFEE MAKER - OWNER PROVIDED
12.03 MICROWAVE - OWNER PROVIDED
12.04 UNDERCOUNTER REFRIGERATOR
22.01 WATER CLOSET
22.02 TANKLESS WATER HEATER
22.05 LAVATORY
23.01 UNIT HEATER
23.02 SPLIT SYSTEM UNIT
23.03 EXHAUST FAN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|---|---|---|---|---|
| | | | | |

DESIGNED AAH 3/4/20 DATE
DRAWN AAH/PC 3/4/20 DATE
CHECKED AAH/JBL 3/4/20 DATE
APPROVED JBL
DATE MARCH 4, 2020

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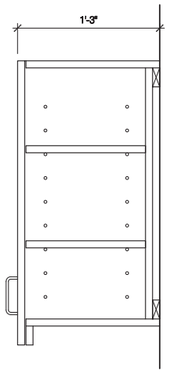
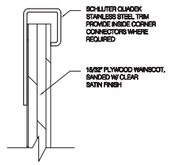
SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11
GUARD SHACK -
INTERIOR ELEVATIONS & SCHEDULES

BID DOCUMENTS
DRAWING AE700
PROJECT 54 1019 1765
SHEET 94 OF 127



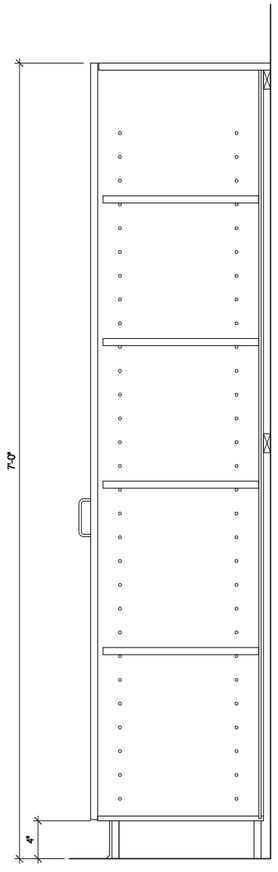

## C1 MILLWORK SECTION OVERHEAD CABINET - 301 & 302

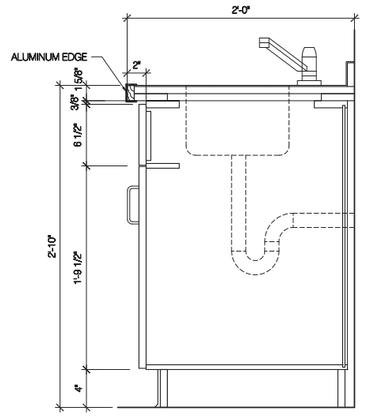
SCALE: 1 1/2" = 1'-0"




## A4 PLYWOOD WAINSCOT TRIM

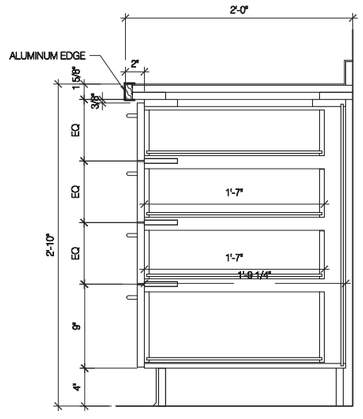
SCALE: 1/4" = 1'-0"



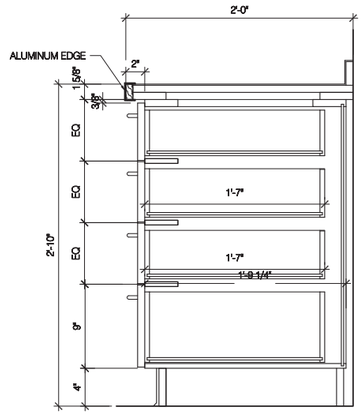

## A1 MILLWORK SECTION CABINET BASE - 212

SCALE: 1 1/2" = 1'-0"




## A2 MILLWORK SECTION CABINET BASE - 222

SCALE: 1 1/2" = 1'-0"




## A3 MILLWORK SECTION CABINET BASE - 224

SCALE: 1 1/2" = 1'-0"

## A4 MILLWORK SECTION CABINET WALL - 401

SCALE: 1 1/2" = 1'-0"

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REVISIONS

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|---|---|---|---|---|

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| DRAWN | AAH/PC | 3/4/20 DATE |
| CHECKED | AAH/JBL | 3/4/20 DATE |
| APPROVED | JBL | |
| DATE | MARCH 4, 2020 | |

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SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

# GUARD SHACK - INTERIOR ELEVATIONS & SECTIONS

BID DOCUMENTS

DRAWING AE800
PROJECT 54 1019 1765
SHEET 95 OF 127

Drawing: X:\2019\19177 SLCIAG\1011\02-Dwg\02-Sheets\A700 Interior Elevations\AE700 - INTERIOR ELEVATIONS.dwg
Plotted on: 3/3/2020 11:49 AM

# LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

## MECHANICAL

- POSITIVE PRESSURE DUCT - RISE
- POSITIVE PRESSURE DUCT - DROP
- NEGATIVE PRESSURE DUCT - RISE
- NEGATIVE PRESSURE DUCT - DROP
- ROUND DUCT - RISE
- ROUND DUCT - DROP
- UNDER FLOOR DUCT
- TURNING VANES
- FRESH AIR LOUVER
- RELIEF AIR OR EXHAUST AIR LOUVER
- CEILING SUPPLY DIFFUSER (12X12 / 200)
- CEILING RETURN REGISTER (22X22 / 200)
- CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN) (12X12 / 200)
- SIDEWALL SUPPLY REGISTER (24X10 / 200)
- SIDEWALL EXHAUST OR RETURN REGISTER (24X10 / 200)
- CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT (12X12 / 200)
- CEILING AIR GRILLE WITH FLEXIBLE DUCT (12X12 / 200)

  TOP FIGURES INDICATE NECK SIZE. BOTTOM FIGURE INDICATES CFM.
- CEILING RETURN AIR GRILLE W/ SOUND BOOT
- LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM (3-1" SLOTS @ 48" / 400)
- FLEXIBLE DUCT CONNECTION
- FLEXIBLE DUCT
- FAN
- FLAT OVAL DUCT WITH FREE AREA DIMENSIONS SHOWN IN INCHES. (12/8 FO)
- RECTANGULAR DUCT WITH FREE AREA DIMENSIONS SHOWN IN INCHES. (12/8)
- ROUND DUCT WITH FREE AREA DIMENSIONS SHOWN IN INCHES. (12Ø)
- INCLINED RISE (UP)
- INCLINED DROP (DN)

  WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH RADIUS TURNS=DEPTH OF DUCT.
- R/W=1, ROUND DUCT SIMILAR TO RECTANGULAR
- RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE. (12/12 TO 8Ø)
- RECTANGULAR TO ROUND DUCT TRANSFORMATION (12/12 TO 12Ø)
- BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
- TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
- HIGH EFFICIENCY FITTING (12Ø TO 12/12)
- MANUAL VOLUME DAMPER
- FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD. (FD)
- COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL (FSD)
- SMOKE DAMPER W/ ACCESS PANEL (SD)
- BACK DRAFT DAMPER (BDD)
- ATC DAMPER (ATC OR)
- ACCESS PANEL IN DUCT OR PLENUM (AD)
- HEATING OR COOLING COIL IN DUCT
- SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
- 4-WAY BLOW PATTERN
- 3-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 1-WAY BLOW PATTERN
- DUCT SMOKE DETECTOR (DSD)
- UNIT HEATER

## PLUMBING

- FLOOR SINK
- FLOOR DRAIN
- FCO / COTG — FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
- ROOF DRAIN
- DOWNSPOUT NOZZLE
- ARROW INDICATES DIRECTION OF FLOW IN PIPE
- CHECK VALVE
- PRESSURE REDUCING, EXTERNAL PRESSURE VALVE
- PRESSURE REDUCING, SELF CONTAINED VALVE
- ATC VALVE - 2 WAY
- ATC VALVE - 3 WAY
- SOLENOID VALVE
- GATE VALVE
- GATE VALVE - NON RISING STEM
- GLOBE VALVE
- TEMPERATURE AND PRESSURE TEST PORT
- PS — PRESSURE SWITCH
- GAS COCK
- BV, GPM — CALIBRATED BALANCING VALVE WITH GPM INDICATED
- RPBP — REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN
- BRANCH - BOTTOM CONNECTION
- BRANCH - TOP CONNECTION
- BRANCH - SIDE CONNECTION
- RISE OR DROP
- RISER - DOWN (ELBOW)
- RISER - UP (ELBOW)
- VTR — VENT THRU ROOF
- WATER HAMMER ARRESTOR
- INLINE PUMP
- INLINE PUMP (IN-LINE)
- CLEAN-OUT
- RELIEF VALVE
- ANGLE VALVE
- FLOW METER
- UNION
- BALANCING COCK
- SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE
- FLEXIBLE EXPANSION JOINT
- THERMOMETER - TEMP RANGE AS INDICATED
- PRESSURE GAUGE WITH SHUT-OFF COCK
- PRESSURE GAUGE WITH PIGTAIL
- LATERAL STRAINER WITH BLOW-OFF VALVE. PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
- BALL VALVE (PIPE SIZES 2" AND SMALLER) BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)
- MOTOR OPERATED BUTTERFLY VALVE
- VALVE IN RISE
- AIR VENT-MANUAL
- AIR VENT-AUTO
- FLOW SWITCH
- REDUCER
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER

## PLUMBING CONT.

- THERMOSTATIC MIXING VALVE
- HOSE BIBB
- PIPE CAP
- SWITCH
- SENSOR
- THERMOSTAT
- N — NIGHT THERMOSTAT
- FILL PORT
- DRAIN PAN AND P-TRAP
- (NAME) — FIXTURE FROM LEVEL ABOVE
- GPM LB/HR — FLOW METER ORIFICE
- FLANGE
- 90° ELBOW
- 45° ELBOW
- F&T — STEAM TRAP, F&T=FLOAT & THERMOSTATIC B=BUCKET, T=THERMOSTATIC
- DN — LEADER INDICATES DOWNWARD SLOPE
- DEMOLITION
- ALIGNMENT GUIDE
- ANCHOR
- LUBRICATED PLUG COCK

## SYMBOLS

- P-1 — PLUMBING FIXTURES
- POINT OF CONNECTION
- A / M-101 — SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
- A / M101 — DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
- EP / 1 — EQUIPMENT IDENTIFICATION
- 1 — KEYED NOTE IDENTIFICATION

## FIRE

- HOSE VALVE
- NRS GATE VALVE WITH SUPERVISION
- FLOW SWITCH
- FIRE RISER
- SPRINKLER HEAD
- F — FIRE SPRINKLER WATER

## LINETYPES

- DOMESTIC COLD WATER (DCW)
- DOMESTIC HOT WATER (DHW)
- DOMESTIC HOT WATER RETURN (DHWR)
- G — NATURAL GAS
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- SEWER (BELOW GRADE)
- SEWER (ABOVE GRADE)
- VENT


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APPROVED MMJ/SWH
DATE MARCH 4, 2020

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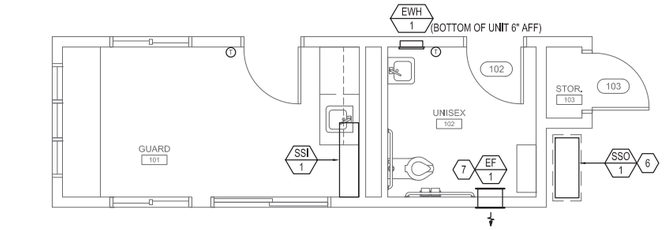
SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

MECHANICAL LEGEND AND ABBREVIATIONS

BID DOCUMENTS

DRAWING M001
PROJECT 54 1019 1765
SHEET 96 OF 127

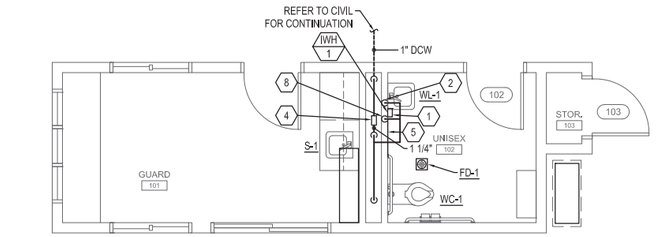
Drawing: N:\20\20000\20050 SLCIA Gate 11 Guard Shack\01_Cadd_MEP_Mechanical\M001.dwg
Plotted on: 3/3/2020 10:44 AM




1 MECHANICAL PLAN - GUARD SHACK

SCALE: 1/4" = 1'-0"

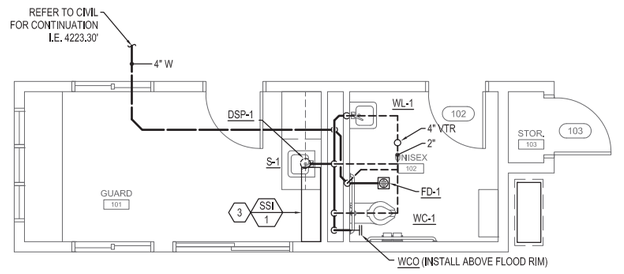
0' 4' 8'




2 DOMESTIC WATER PLUMBING PLAN - GUARD SHACK

SCALE: 1/4" = 1'-0"

0' 4' 8'




3 WASTE AND VENT PLUMBING PLAN - GUARD SHACK

SCALE: 1/4" = 1'-0"

0' 4' 8'

## KEYED NOTES

1. ROUTE DOMESTIC HOT WATER AS REQUIRED TO LAV AND SINK.
2. ROUTE DOMESTIC COLD WATER AS REQUIRED TO LAV AND SINK.
3. ROUTE CONDENSATE AS REQUIRED. REFER TO DETAILS.
4. PRV. REFER TO DETAILS.
5. PROVIDE 24"X24" ACCESS PANEL FOR PRV. COORDINATE PANEL WITH PRV LOCATION AND ARCHITECTURAL DRAWINGS.
6. MAINTAIN REQUIRED CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
7. LOCATE AS HIGH AS POSSIBLE ABOVE FINISHED FLOOR. COORDINATE FINAL HEIGHT AND LOCATION WITH ARCHITECT.
8. ROUTE DOMESTIC COLD WATER AS REQUIRED TO WATER HEATER.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LICENSED PROFESSIONAL ENGINEER
No. 4775391-2202
SPENCER W. HOWELL
3/4/2020
STATE OF UTAH

| REVISIONS | | | | |
|---|---|---|---|---|
| No. | DATE | REMARKS | BY | APV |
| | | | | |

DESIGNED 3/4/20 DATE
DRAWN 3/4/20 DATE
CHECKED 3/4/20 DATE
APPROVED MMJ/SWH
DATE MARCH 4, 2020

Salt Lake City Department of Airports

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SALT LAKE CITY
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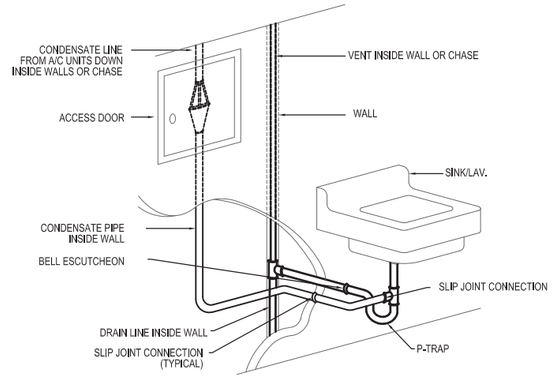
SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

MECHANICAL AND PLUMBING
GUARD SHACK - FLOOR PLANS

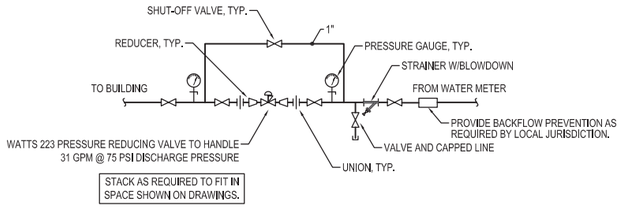
BID DOCUMENTS

DRAWING M101
PROJECT 54 1019 1765
SHEET 97 OF 127

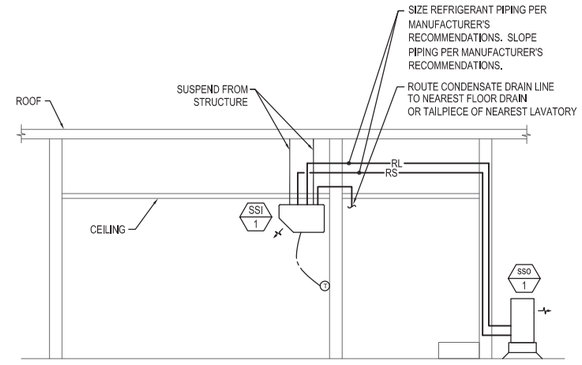

Drawing: N:\20\20000\20050 SLCIA Gate 11 Guard Shack\01_Cadd_MEP_Mechanical\M101.dwg
Plotted on: 3/3/2020 10:43 AM



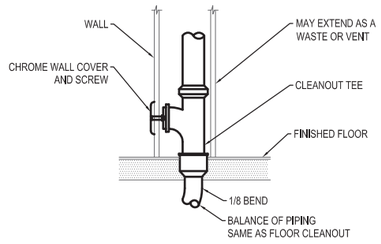

6 CONDENSATE CONNECTION TO LAV/SINK
NO SCALE



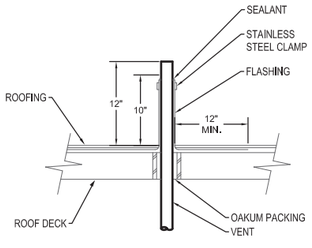

7 DOMESTIC WATER PRV DETAIL
NO SCALE




3 SPLIT SYSTEM CONDITIONING UNIT DETAIL
NO SCALE




4 WALL CLEANOUT DETAIL
NO SCALE

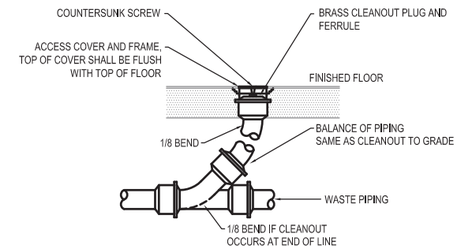



5 VENT THRU ROOF FLASHING & SLEEVING DETAIL
NO SCALE

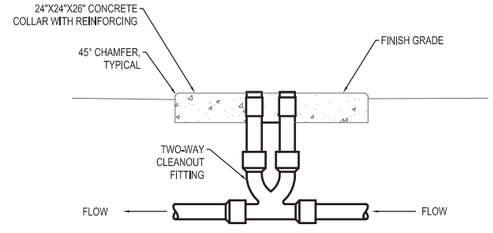
## BRANCH WATER LINE SCHEDULE

| FIXTURE | FIXTURE UNITS | QUANTITY OF FIXTURES SERVED BY | | | | | |
|---|---|---|---|---|---|---|---|
| | | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" |
| WATER CLOSET (FLUSH VALVE) | 10 | – | – | 1 | 3 | 5 | 15 |
| WATER CLOSET (TANK TYPE) | 3 | 1 | 2 | 4 | 10 | – | – |
| URINAL | 5 | – | 1 | 2 | 6 | 10 | 30 |
| LAVATORY | 2 | 1 | 3 | 6 | 15 | 25 | – |
| SERVICE SINK | 4 | – | 1 | 3 | – | – | – |
| QUANTITY OF FIXTURE UNITS SERVED BY | – | 3 | 6 | 12 | 30 | 50 | 150 |

NOTE:
WHERE PIPING IS SIZED ON DRAWINGS IT SHALL BE FOLLOWED. OTHERWISE INSTALL ACCORDING TO TABLE.
WHERE FIXTURES ON A BRANCH ARE MIXED, TAKE THE SUM OF FIXTURE UNITS TO DETERMINE SIZING.
THE BRANCHES SHALL BE REDUCED AS THE LOAD IS TAKEN OFF. MINIMUM SIZE TO ONE (1) FIXTURE SHALL BE 1/2".




1 FLOOR CLEANOUT DETAIL
NO SCALE




2 CLEANOUT TO GRADE DETAIL (COTG)
NO SCALE

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SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

MECHANICAL AND PLUMBING DETAILS

BID DOCUMENTS

DRAWING M501
PROJECT 54 1019 1765
SHEET 98 OF 127

Drawing: N:\20\20000\20050 SLCIA Gate 11 Guard Shack\01_Cadd_MEP_Mechanical\M501.dwg
Plotted on: 3/3/2020 10:40 AM

## SPLIT SYSTEM UNITS

| ID | MANUFACTURER | MODEL NUMBER | COOLING CAPACITY (BTU) | HEATING CAPACITY (BTU) | LOCATION | CFM RANGE | DIMENSIONS W" x H" x D" | WEIGHT (LBS.) | AMPS (MCA) | FAN MOTOR FLA | VOLTS/PH/HZ. | EFFICIENCY MINIMUM SEER @ ARI | REFRIGERANT LINES REFRIGERANT | LIQUID | GAS | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SSI-1 | MITSUBISHI | PKA-A24A7 | 20,447 | 15,348 | INDOOR | 700 | 47 x 15 x 12 | 46 | 1.0 | 0.36 | 208 / 1 / 60 | 18.5 | R-410A | 5/8 | 3/8 | 1,2,3,4,5,6,7 |
| SSO-1 | MITSUBISHI | PUZ-A24NKA7 | | | OUTDOOR | - | 38 x 38 x 15 | 153 | 19 | 0.40 | | | | | | |

1. CONDENSING UNIT TO BE SIZED MATCHED TO INDOOR UNIT AND TO BE BY SAME MANUFACTURER AS INDOOR UNIT.
2. PROVIDE FACTORY MOUNTED STAND FOR CONDENSING UNIT.
3. PROVIDE FACTORY WIND BAFFLE AND LOW AMBIENT HEAD CONTROLLER TO ALLOW COOLING OPERATION DOWN TO 0 DEG. F. D.B.
4. WIRELESS REMOTE CONTROLLER. PROVIDE WALL MOUNTED HOLDER.
5. PROVIDE ACCESSORY CONDENSATE PUMP FOR INDOOR UNIT.
6. INDOOR UNIT IS TO BE POWERED FROM OUTDOOR UNIT.
7. PROVIDE WITH FUSED DISCONNECT AT OUTDOOR UNIT, TO BE INSTALLED BY DIVISION 26.

## FAN SCHEDULE

| ID | MANUFACTURER | MODEL NUMBER | AIR MAXIMUM AIRFLOW RATE (CFM) | AIR STATIC PRESSURE (IN. WATER) | ELECTRICAL MOTOR SIZE | MOTOR SPEED (RPM) | VOLT/PH/HZ | NOTES |
|---|---|---|---|---|---|---|---|---|
| EF-1 | COOK | CBF | 100 | 0.25 | 82 WATTS | 919 | 120/1 | 1,2,3,4 |
| | | | | | | | | |

1. PROVIDE WITH GRAVITY BACKDRAFT DAMPER, INTERGRAL THERMAL OVERLOAD PROTECTION AND DISCONNECT.
2. PROVIDE WITH SECOND GRILLE.
3. FAN CONTROL INTERLOCKED WITH LIGHT SWITCH.
4. PROVIDE WITH FAN SPEED CONTROL.

## ELECTRIC WALL HEATER

| SYMBOL | MANUFACTURER | MODEL NUMBER | AIR AIRFLOW RATE (CFM) | ELECTRICAL KW | AMPS | VOLTS/ PHASE/ HZ | NOTES |
|---|---|---|---|---|---|---|---|
| EWH-1 | QMARK | LFK151F | 100 | 1.5 | 12.5 | 120/1 | 1 |
| | | | | | | | |

1. PROVIDE WITH REMOTE MOUNTED SINGLE STAGE THERMOSTAT.

## WATER HEATER SCHEDULE

| ID | MANUFACTURER | MODEL NUMBER | ELECTRICAL (KW) | V/PH | HEIGHT/ WIDTH/ DEPTH (IN) | NOTES |
|---|---|---|---|---|---|---|
| IWH-1 | EEMAX | SPEX4208T ML | 4.1 | 208/1 | 10 / 6 / 3 | - |
| | | | | | | |

## PLUMBING FIXTURE SCHEDULE

| ID | FIXTURE | CW (IN) | HW (IN) | W (IN) | V (IN) | SPECIFICATION | |
|---|---|---|---|---|---|---|---|
| WC-1 | WATER CLOSET ADA, WALL MOUNT FLUSH VALVE | 1 | -.- | 4 | 2 | FIXTURE:<br>VALVE:<br>SEAT:<br>ACCESSORIES: | AMERICAN STANDARD "AFWALL MILLENIUM" FLOWISE 16-1/2" HEIGHT, VITREOUS CHINA, ELONGATED BOWL, SIPHON JET, 1 1/2" TOP SPUD.<br>ZURN Z600-WS1-YB-YC 1.6 GPF.<br>BENEKE 527 SS WHITE, OPEN FRONT, LESS COVER, WITH SELF-SUSTANING CHECK HINGE.<br>INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE. PIPE ACCORDINGLY. PROVIDE CARRIER (UP TO 600 LBS) WITH SUPPORT PLATES AND RECTANGULAR STEEL UPRIGHTS. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHTS. |
| WL-1 | LAVATORY, WALL HUNG | 1/2 | 1/2 | 1 1/2 | 1 1/2 | FIXTURE:<br>FAUCET:<br>ACCESSORIES: | AMERICAN STANDARD "LUCERNE" 15" X 10" X 5-1/2" VITREOUS CHINA,<br>ZURN Z6915-XL-TMV-1. PROVIDE WITH FACTORY MIXING VALVE WITH 3/8" COMPRESSION CONNECTIONS AND IN-LINE CHECKS.<br>PROVIDE WATTS NO. 7C DUAL CHECKS IN HOT AND COLD SUPPLIES. PROVIDE 0.5 GPM VANDAL RESISTANT AERATOR. PROVIDE LOOSE KEY ANGLE STOPS AND CHROME PLATED COPPER SUPPLIES AND 17 GAUGE CAST BRASS, CHROME PLATED P-TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HANDI-LAV GUARD" PROTECTOR TO MEET ADA REQUIREMENTS. |
| S-1 | SINGLE COMPARTMENT SINK, COUNTER MOUNTED | 1/2 | 1/2 | 2 | 1 1/2 | FIXTURE:<br>FAUCET:<br>ACCESSORIES: | JUST SL-2125-A-GR<br>MOEN 8701 WITH 1.5 GPM FC LAMINAR FLOW CONTROL AND PLAIN END SPOUT RING;<br>PROVIDE WATTS NO. 7C DUAL CHECKS IN HOT AND COLD SUPPLIES. PROVIDE VANDAL RESISTANT AERATOR, PROVIDE LOOSE KEY ANGLE STOPS AND CHROME PLATED COPPER SUPPLIES AND 17 GAUGE CAST BRASS, CHROME PLATED P-TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HANDI-LAV GUARD" PROTECTOR TO MEET ADA REQUIREMENTS. |
| FD-1 | FLOOR DRAIN | -.- | -.- | 2 | 2 | FIXTURE: | SMITH 2005Y-P050 FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6" ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE AND TRAP GUARD. |
| DSP-1 | GARBAGE DISPOSER | -.- | -.- | 1 1/2 | 1 1/2 | FIXTURE: | INSINKERATOR BADGER 5 FOOD WASTE DISPOSER WITH 1/2 HORSEPOWER MOTOR, 120 VOLT/1 PHASE POWER CONNECTION, 6.9 AMPS, CONTROLLED BY WALL SWITCH. |
| | | | | | | | |

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

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Salt Lake City Department of Airports

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SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

MECHANICAL AND PLUMBING SCHEDULES

BID DOCUMENTS

DRAWING M601
PROJECT 54 1019 1765
SHEET 99 OF 127

Drawing: N:\20\20000\20050 SLCIA Gate 11 Guard Shack\01_Cadd_MEP_Mechanical\M601.dwg
Plotted on: 3/3/2020 10:44 AM

## WIRING DEVICE SYMBOLS

| SYMBOL | DESCRIPTION | MOUNTING | REMARKS |
|---|---|---|---|
| $^{LV}$ | LOW VOLTAGE SWITCH | +48" | |
| $_{VS}$ | WALL MOUNTED VACANCY SENSOR SWITCH | +48" | |
| $^{OS}$ | WALL MOUNTED OCCUPANCY SENSOR SWITCH | +48" | |
| | VACANCY SENSOR | CEILING | |
| | DUPLEX RECEPTACLE | +18" | |
| | FOURPLEX RECEPTACLE | +18" | |
| | GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE | +18" | |

## LIGHTING SYMBOLS

1. LIGHT FIXTURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN ON THE DRAWINGS IN VARIOUS SIZES AND SHAPES. REFER TO THE LIGHT FIXTURE SCHEDULE FOR SPECIFICATION INFORMATION.
2. ARROWS INDICATE AIMING DIRECTION.

| SYMBOL | DESCRIPTION | MOUNTING | REMARKS |
|---|---|---|---|
| | ARM-MOUNTED SINGLE-HEAD LIGHT FIXTURE AND POLE | AS SPECIFIED OR DETAILED | |
| | ARM-MOUNTED DOUBLE-HEAD LIGHT FIXTURE AND POLE | AS SPECIFIED OR DETAILED | |
| | LED LIGHT FIXTURES | AS SPECIFIED OR DETAILED | |
| | SURFACE MOUNT CANOPY LIGHT FIXTURE | AS SPECIFIED OR DETAILED | |
| | WALL-MOUNTED LIGHT FIXTURE | AS SPECIFIED OR DETAILED | REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT |
| | FLUORESCENT EGRESS LIGHT FIXTURE | AS SPECIFIED OR DETAILED | THIS IS AN EXAMPLE OF AN EGRESS LIGHT FIXTURE. EGRESS LIGHT FIXTURES ARE HALF-SHADED DIAGONALLY. |
| P | ELECTRIC PHOTOCELL | N/A | MOUNT ON ROOF FACING NORTH SKY |
| XX | LIGHT FIXTURE CALLOUT (LETTER DENOTES FIXTURE TYPE) | | |

## ACCESS CONTROL SYMBOLS

| SYMBOL | DESCRIPTION | MOUNTING | REMARKS |
|---|---|---|---|
| CR | PROXIMITY CARD READER | +48" | |

## CLOSED CIRCUIT TELEVISION SYMBOLS

| SYMBOL | DESCRIPTION | MOUNTING | REMARKS |
|---|---|---|---|
| | CLOSED CIRCUIT TELEVISION CAMERA | CEILING | |
| | CLOSED CIRCUIT TELEVISION CAMERA | POLE | |

## GEAR AND CONTROL SYMBOLS

| SYMBOL | DESCRIPTION | MOUNTING | REMARKS |
|---|---|---|---|
| | NON-FUSED DISCONNECT SWITCH | TOP AT +48"-72" | |
| F | FUSED DISCONNECT SWITCH | TOP AT +48"-72" | |
| | CIRCUIT BREAKER AND ENCLOSURE | TOP AT +48"-72" | |
| | LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED) | TOP AT +72" | 20"W X 6"D |
| | POWER DISTRIBUTION PANELBOARD | WALL | THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION. CROSS HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME IS INDICATED IN SEMI-QUOTES (I.E. 'L2A', 'MDP') |
| | SWITCHBOARD | FLOOR | |

## HEAT TRACE SYMBOLS

| SYMBOL | DESCRIPTION | MOUNTING | REMARKS |
|---|---|---|---|
| C | HEAT TRACE CABLE | SEE PLANS | |
| S | HEAT TRACE SENSOR | SEE PLANS | |

## ELECTRICAL SYMBOL SCHEDULE GENERAL NOTES

1. MOUNT ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS. UNLESS NOTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR TO CENTER OF OUTLET BOX.
2. WHERE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, REFER TO ABBREVIATION SCHEDULE FOR DEFINED REQUIREMENTS.
3. WHERE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'A', MOUNT AT 4" ABOVE COUNTER. IF COUNTER HAS A BACK SPLASH, MOUNT AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE WITH CASEWORK SUPPLIER.
4. NOT ALL ELECTRICAL SYMBOLS MAY BE USED.

## GENERAL SYMBOLS

| SYMBOL | DESCRIPTION | REMARKS |
|---|---|---|
| XX | KEYED NOTE | |
| 1 / E-1 | DETAIL REFERENCE | TOP NUMBER INDICATES DETAIL NUMBER; BOTTOM LETTER-NUMBER INDICATES WHERE DETAIL IS SHOWN. |
| 2 / E-2 | ELEVATION REFERENCE | TOP NUMBER INDICATES ELEVATION NUMBER; BOTTOM LETTER-NUMBER INDICATES WHERE ELEVATION IS SHOWN. |
| 3 / E-3 | SECTION REFERENCE | TOP NUMBER INDICATES SECTION NUMBER; BOTTOM LETTER-NUMBER INDICATES WHERE SECTION IS SHOWN. |
| 100 | ARCHITECTURAL ROOM NUMBER | |
| AHU / 1 | EQUIPMENT NAME / NUMBER | TOP NUMBER ABBREVIATES EQUIPMENT NAME OR TYPE; BOTTOM NUMBER INDICATES EQUIPMENT NUMBER. REFER TO EQUIPMENT SCHEDULE. |
| 1 | REVISION NUMBER | USED TO DENOTE CHANGES EITHER ISSUED BY ADDENDUM OR DURING CONSTRUCTION AND TO DENOTE RECORD DRAWING CHANGES. |
| | BREAKLINE | USED TO BREAK DRAWINGS. |

## BRANCH CIRCUITING SYMBOLS

| SYMBOL | DESCRIPTION | REMARKS |
|---|---|---|
| | 1 CIRCUIT, 2 WIRE BRANCH CIRCUIT HOME RUN TO PANEL | ARROWS: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS REQUIRED.<br>SHORT CROSS LINES: NUMBER OF SHORT CROSS LINES INDICATES NUMBER OF PHASE, TRAVELER, AND/OR SWITCHED CONDUCTORS REQUIRED IF GREATER THAN 1 (ONE).<br>LONG CROSS LINES: NUMBER OF LONG CROSS LINES INDICATES NUMBER OF NEUTRAL CONDUCTORS REQUIRED FOR MULTI-WIRE HOME RUNS.<br>EQUIPMENT GROUND AND ISOLATED GROUND CONDUCTORS: EQUIPMENT GROUND AND ISOLATED GROUND CONDUCTORS ARE NOT SHOWN, BUT ARE REQUIRED AS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. |
| | 2 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO PANEL | |
| | 3 CIRCUIT, 6 WIRE BRANCH CIRCUIT HOME RUN TO PANEL | |
| | MULTIPLE WIRE BRANCH CIRCUITING BETWEEN FIXTURES, SWITCHES, DEVICES, ETC. | |
| | BRANCH CIRCUITING (U.N.O.) TURNED UP OR TOWARDS OBSERVER. | |
| | BRANCH CIRCUITING (U.N.O.) TURNED DOWN OR AWAY FROM OBSERVER. | |
| | BRANCH CIRCUITING (U.N.O.) CONTINUATION | |
| | CONDUIT STUB-IN | CAP AND MARK |
| | INCOMING SERVICE | |
| J | JUNCTION BOX | MOUNT AS NOTED. SUBSCRIPT 'F' INDICATES TO PROVIDE A FLOOR BOX WITH BLANK COVERPLATE |

## ELECTRONIC SYSTEM GENERAL SYMBOLS

| SYMBOL | DESCRIPTION | MOUNTING | REMARKS |
|---|---|---|---|
| PANEL NAME | ELECTRONIC SYSTEM PANELBOARD (SURFACE MOUNT) | TOP AT 72" | ELECTRONIC SYSTEMS MAY INCLUDE BUT ARE NOT SPECIFICALLY LIMITED TO, TELEPHONE, DATA, TELEVISION, LIGHTING CONTROL, CLOCKS, FIRE ALARM, ACCESS CONTROL, SECURITY, CCTV, SOUND SYSTEM, NURSE CALL, OR INTERCOM. |

## ELECTRICAL SHEET INDEX



## ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

| | | | |
|---|---|---|---|
| A | ABOVE COUNTER | ISO | ISOLATED |
| A | AMP OR AMPS | KVA | KILO VOLT AMPERES |
| ADJ | ADJACENT | KW | KILOWATTS |
| AFF | ABOVE FINISHED FLOOR | LFMC | LIQUID-TIGHT METAL CONDUIT |
| AHJ | AUTHORITY HAVING JURISDICTION | LFNC | LIQUID-TIGHT NONMETAL CONDUIT |
| AL | ALUMINUM | MCA | MINIMUM CIRCUIT AMPS |
| C | CONDUIT | MLO | MAIN LUGS ONLY |
| CB | CIRCUIT BREAKER | N.C. | NORMALLY CLOSED |
| CKT | CIRCUIT | N.I.C. | NOT IN CONTRACT |
| C.O.'S | CONVENIENCE OUTLETS | N.L. | NIGHT LIGHT |
| CU | COPPER | N.O. | NORMALLY OPEN |
| EA | EACH | O.C. | ON CENTER(S) |
| ELEC | ELECTRICAL | OCP | OVER CURRENT PROTECTION |
| EM | EMERGENCY | QTY | QUANTITY |
| EMT | ELECTRIC METALLIC TUBING | R | REMOVE |
| ENT | ELECTRIC NONMETALLIC TUBING | REQ. | REQUIREMENTS |
| EQUIP | EQUIPMENT | RMC | RIGID METAL CONDUIT |
| EWC | ELECTRIC WATER COOLER | RNC | RIGID NONMETALLIC CONDUIT |
| E, EX | EXISTING | RR | REMOVE AND RELOCATE |
| EXP | EXPLOSION PROOF | SS | SURGE SUPPRESSION |
| FA | FIRE ALARM | SCP | SECURITY CONTROL PANEL |
| FACP | FIRE ALARM CONTROL PANEL | TR | TAMPER RESISTANT |
| FLA | FULL LOAD AMPS | TYP | TYPICAL |
| FMC | FLEXIBLE METAL CONDUIT | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| FOB | FREIGHT ON BOARD | UF | UNDER FLOOR |
| GND | GROUND CONDUCTOR | UG | UNDERGROUND |
| HOA | HAND-OFF-AUTO | U.N.O. | UNLESS NOTED OTHERWISE |
| HP | HORSE POWER | W/ | WITH |
| IG | ISOLATED GROUND | WP | WEATHER PROOF |
| IMC | INTERMEDIATE METAL CONDUIT | XFMR | TRANSFORMER |
| INS | INSULATED | | |

## GENERAL PROJECT NOTES:

1. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR READING AND APPLYING WHAT IS IN THE SPECIFICATIONS TO THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PROJECT THAT IS CALLED OUT IN THE SPECIFICATION SHALL BE LISTED ON THE SUBSTANTIAL COMPLETION PUNCHLIST. THE CONTRACTOR WILL BE REQUIRED TO REMEDY THESE DEFICIENCIES WITHOUT ADDITIONAL COSTS TO OWNER. THERE WILL BE NO EXCEPTIONS.
2. THE CONTRACTOR MAY SCHEDULE A PRE-CONSTRUCTION MEETING , AT THEIR DISCRETION, WITH THE ELECTRICAL ENGINEER TO REVIEW THE DRAWINGS AND SPECIFICATIONS. THE MEETING SHALL BE A MAXIMUM OF ONE HOUR AND SHALL TAKE PLACE AT THE ENGINEER'S OFFICE.
3. THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS THAT ARE LISTED IN THE SPECIFICATIONS. THESE ITEMS ARE NOT ALL INCLUSIVE, AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE TO ALL REQUIREMENTS OF THE SPECIFICATIONS:
   A. INSULATED THROAT CONNECTORS OR PLASTIC BUSHINGS SHALL BE UTILIZED FOR ALL CONDUIT SIZES USED ON THIS PROJECT.
   B. A DEDICATED NEUTRAL CONDUCTOR WILL BE PROVIDED FOR ALL LIGHTING AND POWER CIRCUITS.
   C. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIPMENT AS IT IS CALLED OUT IN THE SPECIFICATIONS.
   D. THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AND BRACING FOR ALL LIGHT FIXTURES AND ELECTRICAL EQUIPMENT AS REQUIRED BY APPLICABLE LOCAL AND NATIONAL CODES.
4. THE CONTRACTOR SHALL FOLLOW THE PANELBOARD SCHEDULES AS INDICATED IN THE DRAWINGS. EACH CIRCUIT BREAKER HAS BEEN ASSIGNED TO A SPECIFIC AREA OF THE BUILDING. NO DEVIATION WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE ELECTRICAL ENGINEER.
5. AT A MINIMUM THE CONTRACTOR SHALL INSTALL THE WIRE SIZE AS CALLED OUT ON THE PANELBOARD SCHEDULES. HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE WIRE IS SIZED LARGE ENOUGH TO ALLOW FOR VOLTAGE DROP.
6. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL OVERCURRENT DEVICES FOR THE ACTUAL MECHANICAL EQUIPMENT SUPPLIED ON THE JOB, PRIOR TO RELEASE OF ANY ELECTRICAL DISTRIBUTION EQUIPMENT. CONTACT THE ELECTRICAL ENGINEER WITH ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO ADDITIONAL PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO. ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.


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03-04-2020


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DESIGNED AR/KD 3/04/20 DATE
DRAWN KD 3/04/20 DATE
CHECKED AR 3/04/20 DATE
APPROVED AR
DATE MARCH 4, 2020

Salt Lake City Department of Airports

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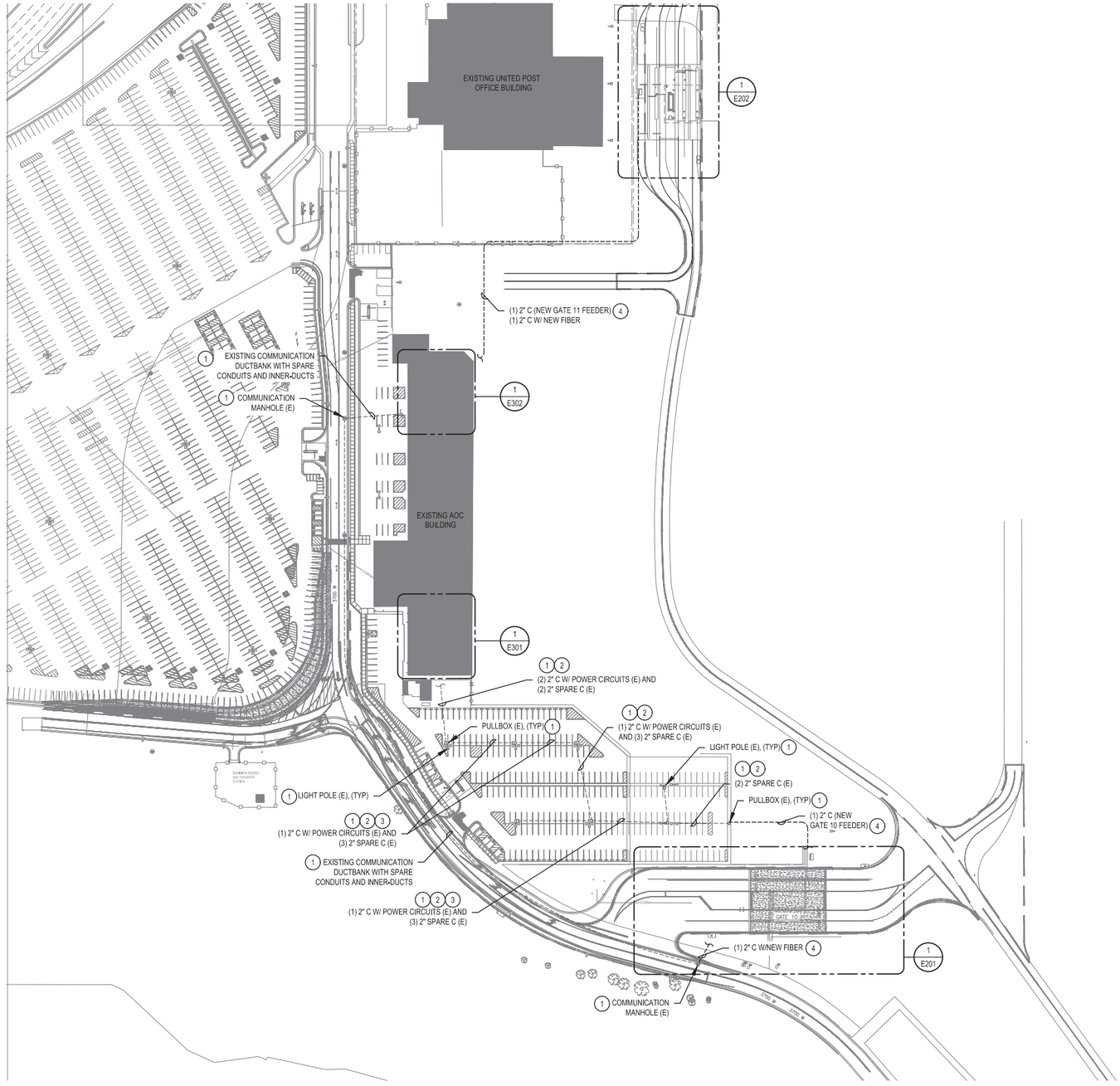
SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

SYMBOLS, ABBREVIATIONS, AND SHEET INDEX

BID DOCUMENTS

DRAWING E001
PROJECT 54 1019 1765
SHEET 100 OF 127

Drawing: G:\19\2019-149.00 - SLCIA Gate 10 and 11 Relocation\Elec\E001.dwg
Plotted on: 3/3/2020 9:22 AM




1 OVERALL ELECTRICAL SITE PLAN
SCALE: 1" = 100'-0"

NORTH

## KEYED NOTES: (#)

1. PROTECT AND MAINTAIN.
2. INSTALL NEW CONDUCTORS THROUGH EXISTING SPARE CONDUITS AND PULLBOXES. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. NEW FIBER THROUGH EXISTING CONDUITS, INNER-DUCTS AND MANHOLES. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4. FIELD COORDINATE EXACT ROUTING. PROTECT AND MAINTAIN ALL EXISTING BURIED UTILITIES. PATCH AND REPAIR GROUND/PAVING TO MATCH EXISTING CONDITIONS.

## GENERAL NOTES:

1. PROTECT AND MAINTAIN ALL EXISTING BURIED UTILITIES.
2. COORDINATE ALL WORK WITH AIRPORT PRIOR TO ROUGH-IN.

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SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

OVERALL ELECTRICAL SITE PLAN

BID DOCUMENTS

DRAWING E100
PROJECT 54 1019 1765
SHEET 101 OF 127

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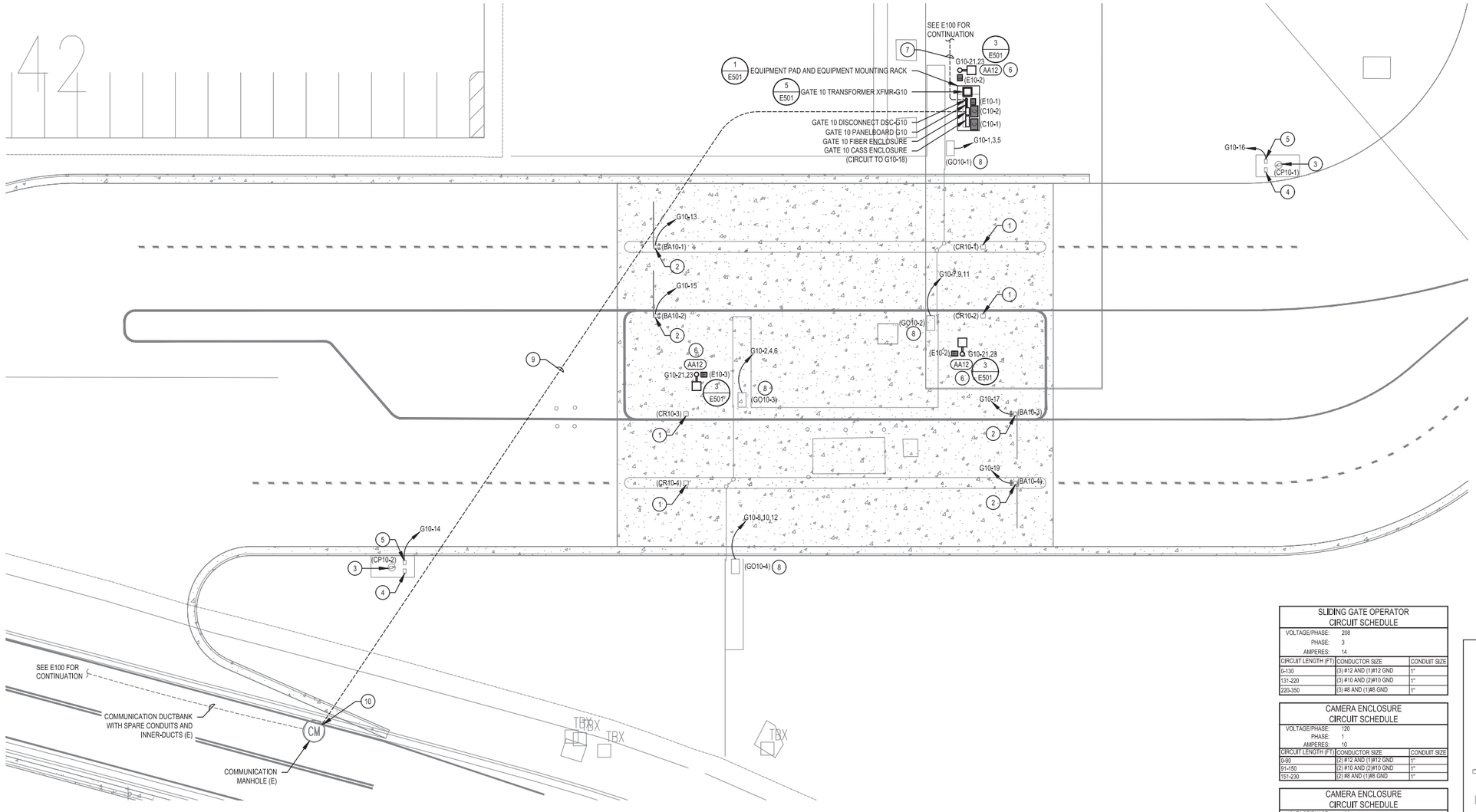


## KEYED NOTES: (#)

1. CARD READER AND PHONE PEDESTAL. EXTEND (1) 1" CONDUIT TO GATE 10 FIBER ENCLOSURE AND (2) 1" CONDUIT TO GATE 10 CASS ENCLOSURE. REFER TO E701 FOR ADDITIONAL INFORMATION.
2. BARRIER ARM OPERATOR. PROVIDE 120V CIRCUIT AS SHOWN AND EXTEND (2) 1" CONDUITS TO GATE 10 CASS ENCLOSURE. REFER TO E701 FOR ADDITIONAL INFORMATION.
3. HOUSE-KEEPING PAD, CONCRETE BASE, CAMERA POLE, AND CAMERA POLE ENCLOSURE BY AIRPORT VSS ON-CALL CONTRACTOR, EXCAVATION FOR HOUSE-KEEPING PAD BY GENERAL CONTRACTOR. REFER TO E701 FOR ADDITIONAL INFORMATION.
4. IN-GRADE CAMERA POLE COMMUNICATION PULLBOX AND CONDUIT FROM PULLBOX TO CAMERA ENCLOSURE BY AIRPORT VSS ON-CALL CONTRACTOR. REFER TO E701 FOR ADDITIONAL INFORMATION.
5. IN-GRADE CAMERA POLE ELECTRIC PULLBOX AND CONDUIT FROM PULLBOX TO CAMERA ENCLOSURE BY AIRPORT VSS ON-CALL CONTRACTOR. CONDUIT FROM IN-GRADE PULLBOX TO PANELBOARD G10 AND CONDUCTORS FROM CAMERA ENCLOSURE TO PANELBOARD G10 BY DIV 26 CONTRACTOR.
6. NEW LIGHT POLE. RUN CIRCUIT (1" C W/ (3)#10) THROUGH LIGHT POLE IN-GRADE PULLBOX.
7. POWER CONDUIT. REFER TO E601 FOR ADDITIONAL INFORMATION.
8. SLIDING GATE OPERATOR. PROVIDE 208V, 3PH CIRCUIT AS SHOWN AND EXTEND (2) 1" CONDUITS TO GATE 10 CASS ENCLOSURE. REFER TO E701 FOR ADDITIONAL INFORMATION.
9. NEW FIBER CONDUIT. REFER TO E702 FOR ADDITIONAL INFORMATION.
10. EXCAVATE AS REQUIRED AND CORE-DRILL EXISTING MANHOLE TO INSTALL NEW CONDUIT. PROVIDE CONDUIT BELL-END. PATCH, REPAIR, AND SEAL OFF NEW PENETRATION.

## GENERAL NOTES:

1. DIV 26 CONTRACTOR SHALL COORDINATE LOCATIONS AND DETAILS OF ALL CONDUIT STUB-UPS TO GATE EQUIPMENT (SLIDING GATE OPERATORS, BARRIER ARM OPERATORS, CARD READER PEDESTALS, AND CAMERA POLE IN-GRADE BOXES) WITH AIRPORT PRIOR TO ROUGH-IN

**SLIDING GATE OPERATOR CIRCUIT SCHEDULE**

VOLTAGE/PHASE: 208
PHASE: 3
AMPERES: 14

| CIRCUIT LENGTH (FT) | CONDUCTOR SIZE | CONDUIT SIZE |
|---|---|---|
| 0-130 | (3) #12 AND (1)#12 GND | 1" |
| 131-220 | (3) #10 AND (2)#10 GND | 1" |
| 220-350 | (3) #8 AND (1)#8 GND | 1" |

**CAMERA ENCLOSURE CIRCUIT SCHEDULE**

VOLTAGE/PHASE: 120
PHASE: 1
AMPERES: 10

| CIRCUIT LENGTH (FT) | CONDUCTOR SIZE | CONDUIT SIZE |
|---|---|---|
| 0-90 | (2) #12 AND (1)#12 GND | 1" |
| 91-150 | (2) #10 AND (2)#10 GND | 1" |
| 151-230 | (2) #8 AND (1)#8 GND | 1" |

**CAMERA ENCLOSURE CIRCUIT SCHEDULE**

VOLTAGE/PHASE: 120
PHASE: 1
AMPERES: 10

| CIRCUIT LENGTH (FT) | CONDUCTOR SIZE | CONDUIT SIZE |
|---|---|---|
| 0-90 | (2) #12 AND (1)#12 GND | 1" |
| 91-150 | (2) #10 AND (2)#10 GND | 1" |
| 151-230 | (2) #8 AND (1)#8 GND | 1" |
| 231-370 | (2) #6 AND (1)#6 GND | 1" |

**GATE EQUIPMENT AND PULLBOX LEGEND**

- (EXX-#) — ELECTRICAL IN-GRADE PULLBOX AND PULLBOX DESIGNATION NUMBER. XX - GATE NUMBER, # - BOX NUMBER. SEE 4/E501.
- (CXX-#) — OLDCASTLE SYNERTECH DUO24X36 (24"W X 36" L X 24" D) COMMUNICATION HANDHOLE (OR APPROVED EQUAL), XX - GATE NUMBER, # - BOX NUMBER
- (CRXX-#) — CARD READER, CR - CARD READER, XX - GATE NUMBER, # - CARD READER NUMBER
- (BAXX-#) — BARRIER ARM OPERATOR, BA - BARRIER ARM, XX - GATE NUMBER, # - OPERATOR NUMBER
- (GOXX-#) — SLIDING GATE OPERATOR, GO - GATE OPERATOR, XX - GATE NUMBER, # - OPERATOR NUMBER
- (CPXX-#) — CAMERA POLE, CP - BARRIER ARM, XX - GATE NUMBER, # - LOCATION NUMBER

NORTH

1 ENLARGED GATE 10 SITE PLAN
SCALE: 1/16" = 1'-0"

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SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

ENLARGED GATE 10 SITE PLAN

BID DOCUMENTS

DRAWING E201
PROJECT 54 1019 1765
SHEET 102 OF 127

Drawing: Q:\19\2019-149.00 - SLCIA Gate 10 and 11 Relocation\Elec\E201.dwg
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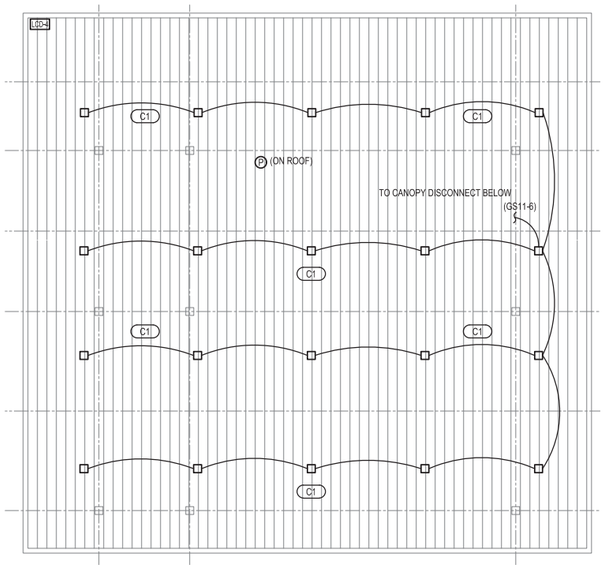
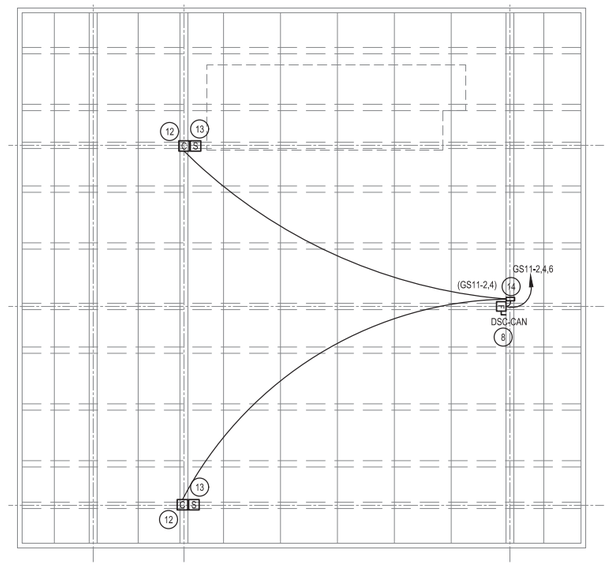
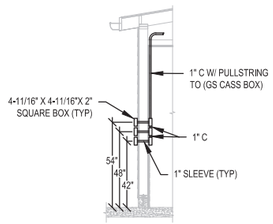



6 ENLARGED CANOPY LIGHTING PLAN
SCALE: 1/8" = 1'-0"




5 ENLARGED CANOPY POWER PLAN
SCALE: 1/8" = 1'-0"




4 CASS BOXES ELEVATION VIEW
SCALE: 1/4" = 1'-0"

CAMERA ENCLOSURE CIRCUIT SCHEDULE

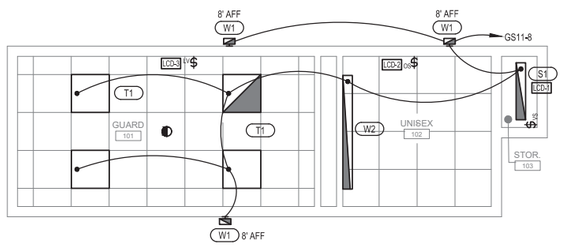
| VOLTAGE/PHASE: | 120 | |
|---|---|---|
| PHASE: | 1 | |
| AMPERES: | 10 | |
| CIRCUIT LENGTH (FT) | CONDUCTOR SIZE | CONDUIT SIZE |
| 0-90 | (2) #12 AND (1)#12 GND | 1" |
| 91-150 | (2) #10 AND (2)#10 GND | 1" |
| 151-230 | (2) #6 AND (1)#6 GND | 1" |

CAMERA ENCLOSURE CIRCUIT SCHEDULE

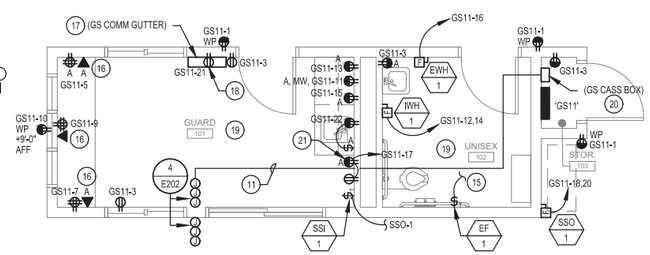
| VOLTAGE/PHASE: | 120 | |
|---|---|---|
| PHASE: | 1 | |
| AMPERES: | 10 | |
| CIRCUIT LENGTH (FT) | CONDUCTOR SIZE | CONDUIT SIZE |
| 0-90 | (2) #12 AND (1)#12 GND | 1" |
| 91-150 | (2) #10 AND (2)#10 GND | 1" |
| 151-230 | (2) #6 AND (1)#6 GND | 1" |
| 231-370 | (2) #6 AND (1)#6 GND | 1" |

GATE EQUIPMENT AND PULLBOX LEGEND

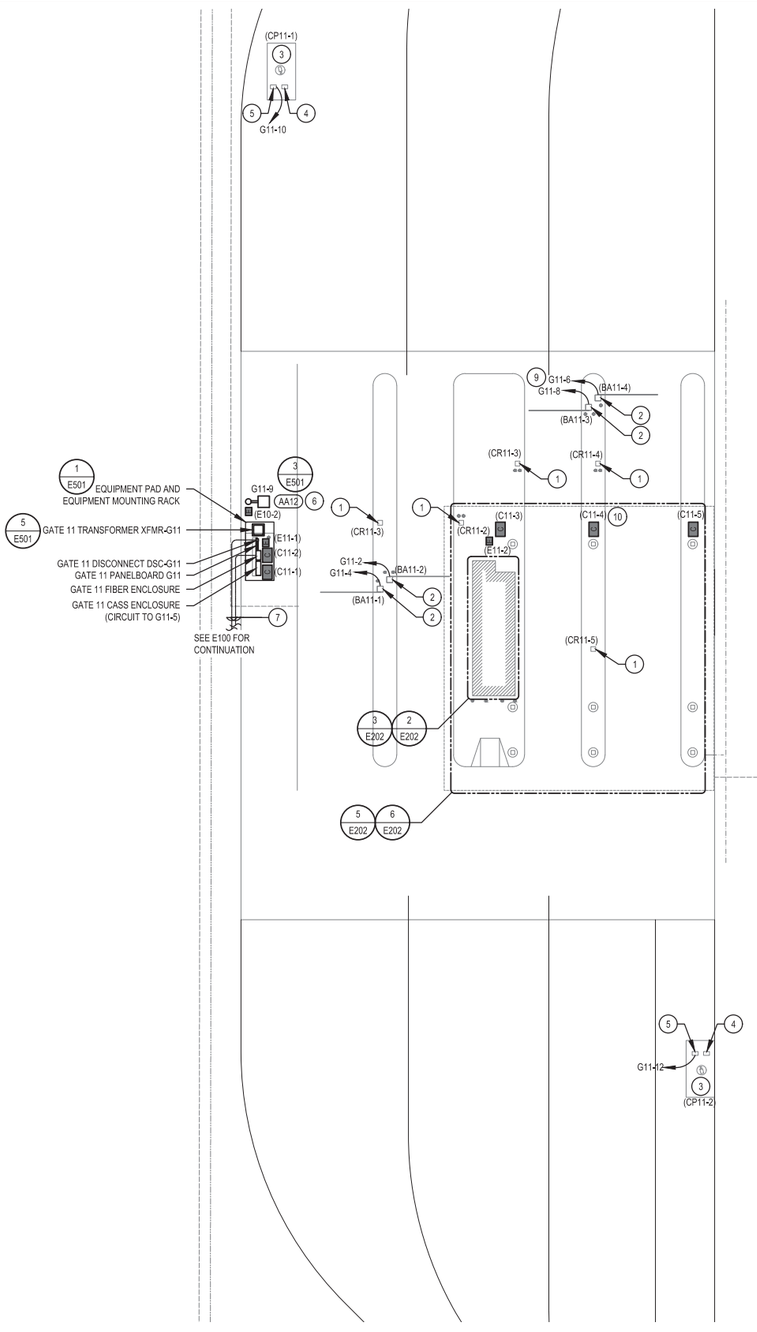
- (EXX-#) — ELECTRICAL IN-GRADE PULLBOX AND PULLBOX DESIGNATION NUMBER, XX - GATE NUMBER, # - BOX NUMBER. SEE 4/E501.
- (CXX-#) — OLDCASTLE SYNERTECH DUO24X36 (24"W X 36" L X 24" D) COMMUNICATION HANDHOLE (OR APPROVED EQUAL). XX - GATE NUMBER, # - BOX NUMBER
- (CRXX-#) — CARD READER, CR - CARD READER, XX - GATE NUMBER, # - CARD READER NUMBER
- (BAXX-#) — BARRIER ARM OPERATOR, BA - BARRIER ARM, XX - GATE NUMBER, # - OPERATOR NUMBER
- (GOXX-#) — SLIDING GATE OPERATOR, GO - GATE OPERATOR, XX - GATE NUMBER, # - OPERATOR NUMBER
- (CPXX-#) — CAMERA POLE, CP - BARRIER ARM, XX - GATE NUMBER, # - LOCATION NUMBER




3 ENLARGED GUARD SHACK LIGHTING PLAN
SCALE: 1/4" = 1'-0"




2 ENLARGED GUARD SHACK POWER PLAN
SCALE: 1/4" = 1'-0"




1 ENLARGED GATE 11 SITE PLAN
SCALE: 1/16" = 1'-0"

KEYED NOTES: (#)

1. CARD READER AND PHONE PEDESTAL. EXTEND (1) 1" CONDUIT TO GATE 11 FIBER ENCLOSURE AND (2) 1" CONDUIT TO GATE 11 CASS ENCLOSURE. REFER TO E702 FOR ADDITIONAL INFORMATION.
2. BARRIER ARM OPERATOR. PROVIDE 120V CIRCUIT AS SHOWN AND EXTEND (2) 1" CONDUITS TO GATE 11 CASS ENCLOSURE. REFER TO E702 FOR ADDITIONAL INFORMATION.
3. HOUSE-KEEPING PAD, CONCRETE BASE, CAMERA POLE, AND CAMERA POLE ENCLOSURE BY AIRPORT VSS ON-CALL CONTRACTOR. EXCAVATION FOR HOUSE-KEEPING PAD BY GENERAL CONTRACTOR. REFER TO E702 FOR ADDITIONAL INFORMATION.
4. IN-GRADE CAMERA POLE COMMUNICATION PULLBOX AND CONDUIT FROM PULLBOX TO CAMERA ENCLOSURE BY VSS AIRPORT ON-CALL CONTRACTOR. REFER TO E702 FOR ADDITIONAL INFORMATION.
5. IN-GRADE CAMERA POLE ELECTRIC PULLBOX AND CONDUIT FROM PULLBOX TO CAMERA ENCLOSURE BY AIRPORT VSS ON-CALL CONTRACTOR. CONDUIT FROM PULLBOX TO PANELBOARD G11 AND CONDUCTORS FROM CAMERA ENCLOSURE TO PANELBOARD G11 BY DIV 26 CONTRACTOR.
6. NEW LIGHT POLE. RUN CIRCUIT (1* C W/ (3)#10) THROUGH LIGHT POLE IN-GRADE PULLBOX.
7. POWER AND FIBER CONDUITS. REFER TO E601 AND E702 FOR ADDITIONAL INFORMATION.
8. PROVIDE CANOPY DISCONNECT FOR CANOPY LIGHTING AND HEAT TRACE CIRCUITS. MOUNT DISCONNECT TO CANOPY COLUMN. REFER TO E601 FOR ADDITIONAL INFORMATION.
9. RUN BARRIER ARM OPERATOR CIRCUITS THROUGH (E11-2).
10. EXTEND 2" CONDUIT FROM THIS PULLBOX TO EACH OF FOUR CENTER ISLAND CANOPY COLUMNS. STUB CONDUITS 12" ABOVE GRADE AT THE CANOPY COLUMN, CAP, AND PROTECT FOR THE FUTURE USE. BEFORE STUBBING THE CONDUITS, COORDINATE WITH CANOPY SUPPLIER OF CANOPY COMES WITH HANDHOLES, AND STUB CONDUITS INTO COLUMNS IF HANDHOLES ARE AVAILABLE.
11. (1) 1" CONDUIT WITH PULLSTRING TO CASS BOX (GS CASS BOX).
12. PROVIDE NVENT RAYCLIP-PC (OR EQUIVALENT) POWER KIT. HEAT TRACE CABLE POWER CONNECTION SHALL BE INSTALLED IN DOWNSPOUT. PROVIDE NVENT GM2XT (OR EQUIVALENT) CABLE, TOTAL OF TWO RUNS PER DOWNSPOUT, PROVIDE ALL SPLICES, TEES, END SEAL KITS, ETC AS REQUIRED FOR COMPLETE INSTALLATION.
13. PROVIDE NVENT GIT-1 SENSOR (OR EQUIVALENT). INSTALL HEAT TRACE SENSOR INSIDE FUTTER OR DOWN SPOUT. PROVIDE 3-WIRE JACKETED CABLE SENSORE TO TEAT TRACE CONTROLLER.
14. PROVIDE NVENT GF PRO (OR EQUIVALENT) HEAT TRACE CONTROLLER WITH BUILT IN GROUND FAULT PROTECTION. MOUNT CONTROLLER ON CANOPY COLUMN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
15. CIRCUIT TO LIGHTING IN SPACE. FAN SHALL BE CONTROLLED WITH THE LIGHTS.
16. PROVIDE 4" SQUARE BY 2-1/8" DEEP BOX WITH SINGLE GANG MUD RING AND BLANK STAINLESS STEEL COVER PLATE. EXTEND 1" CONDUIT WITH PULLSTRING FROM DATA OUTLET BOX TO COMM GUTTER (GS COMM GUTTER).
17. PROVIDE SURFACE 24" X 6" X 6" AUXILIARY METAL GUTTER WITH REMOVABLE FRONT COVER AT 7'-0" AFF TO THE BOTTOM OF THE GUTTER. WALL SPACE UNDERNEATH THE GUTTER IS RESERVED FOR FUTURE AIRPORT IT EQUIPMENT. REFER TO E702 FOR ADDITIONAL INFORMATION.
18. PROVIDE OUTLET AT 42" AFF.
19. UNLESS NOTED OTHERWISE, ALL RACEWAYS IN THIS ROOM MUST BE CONCEALED IN WALLS AND CEILINGS.
20. SIZE PULLBOX PER NEC. REFER TO E702 FOR ADDITIONAL INFORMATION.
21. PROVIDE REMOTE BLANK FACE GFCI RECEPTACLE ABOVE COUNTER TOP TO PROTECT FRIDGE OUTLET, AND LABEL "FRIDGE GFCI".

GENERAL NOTES:

1. DIV 26 CONTRACTOR SHALL COORDINATE LOCATIONS AND DETAILS OF ALL CONDUIT STUB-UPS TO GATE EQUIPMENT (SLIDING GATE OPERATORS, BARRIER ARM OPERATORS, CARD READER PEDESTALS, AND CAMERA POLE IN-GRADE BOXES) WITH AIRPORT PRIOR TO ROUGH-IN

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| CHECKED | AR | 3/04/20 DATE |
| APPROVED | AR | |
| DATE | MARCH 4, 2020 | |

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SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

ENLARGED GATE 11 SITE PLAN

BID DOCUMENTS

DRAWING E202
PROJECT 54 1019 1765
SHEET 103 OF 127

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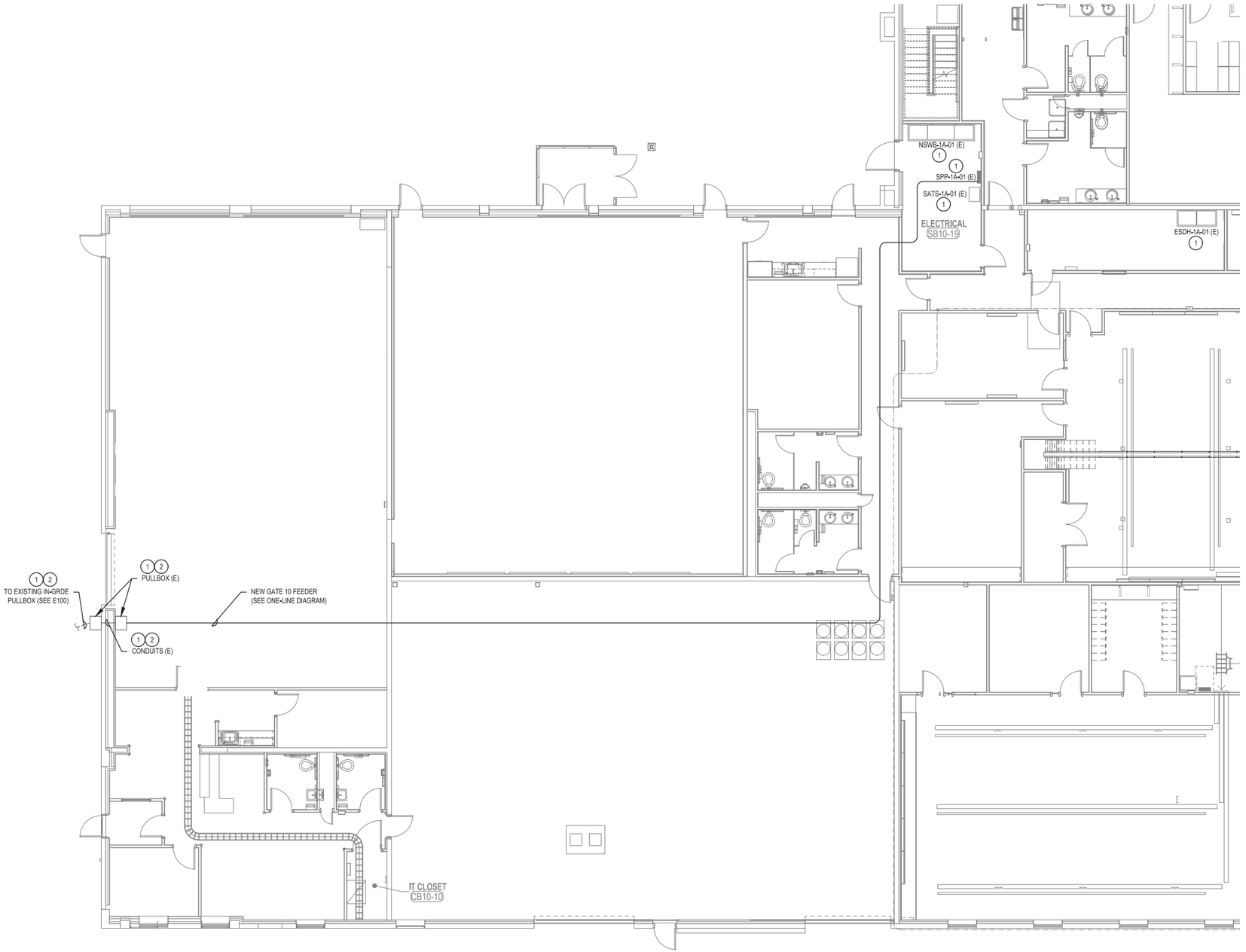


## KEYED NOTES: (#)

1. PROTECT AND MAINTAIN.
2. INSTALL NEW CONDUCTORS THROUGH EXISTING SPARE CONDUITS AND PULLBOXES. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

1 PARTIAL AOC FLOOR PLAN SOUTH
SCALE: 1/8" = 1'-0"

NORTH

Drawing: Q:\19\2019-149.00 - SLCIA Gate 10 and 11 Relocation\Elec\E301.dwg
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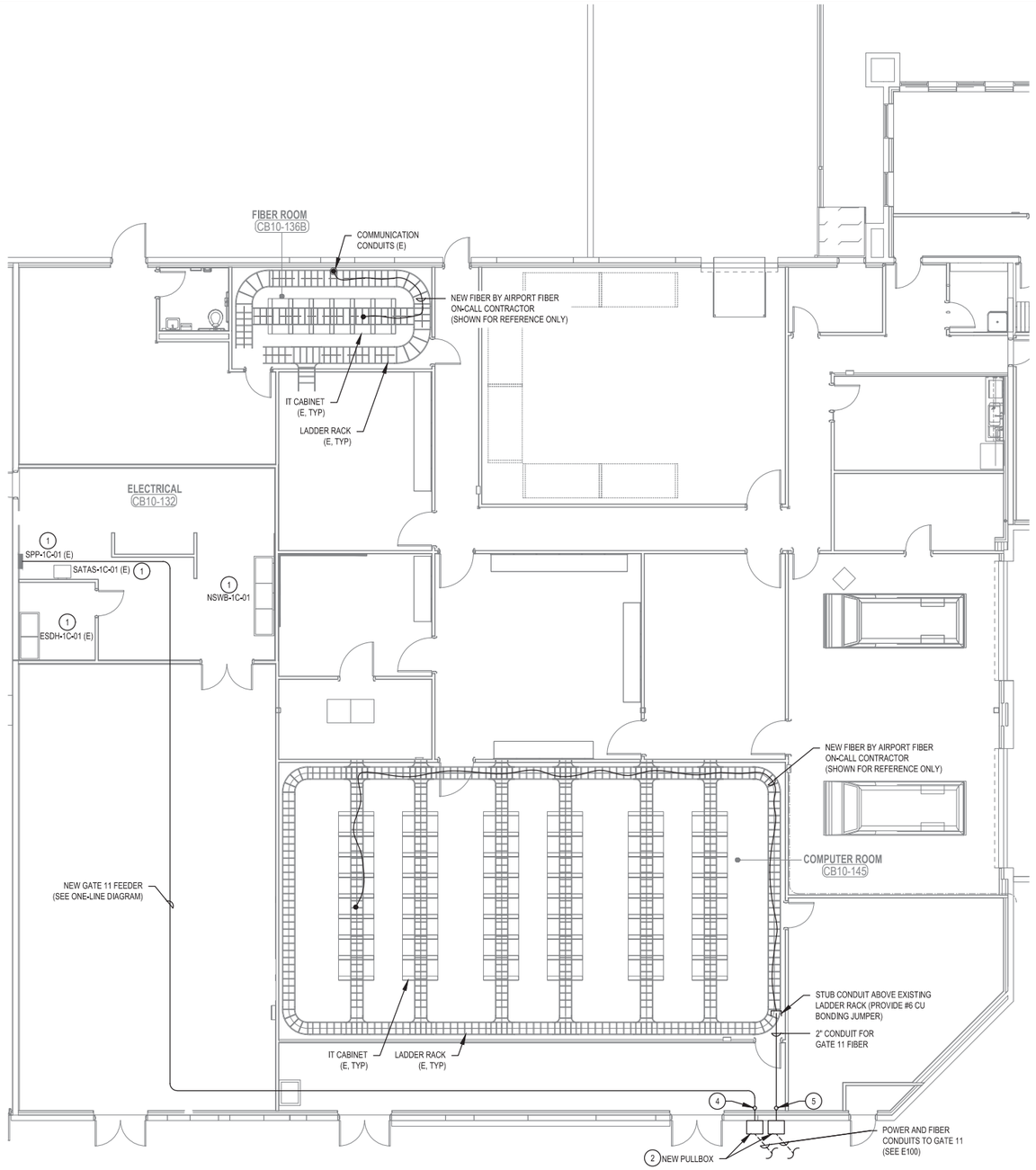
SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

PARTIAL AOC FLOOR PLAN SOUTH

BID DOCUMENTS

DRAWING E301
PROJECT 54 1019 1765
SHEET 104 OF 127




1 PARTIAL AOC FLOOR PLAN NORTH
SCALE: 1/8" = 1'-0"

NORTH

## KEYED NOTES: (#)

1. PROTECT AND MAINTAIN.
2. SIZE BOX PER NEC, FIELD COORDINATE EXACT BOX LOCATIONS.
3. CORE DRILL EXISTING WALL AS REQUIRED TO INSTALL NEW CONDUITS. PATCH, REPAIR, AND SEAL OFF ALL NEW PENETRATIONS.
4. RAISE CONDUIT TO STRUCTURAL CEILING AND EXTEND OVERHEAD TO ELECTRICAL PANEL.
5. RAISE CONDUIT TO STRUCTURAL CEILING AND EXTEND OVERHEAD TO ELECTRICAL PANEL.

Drawing: Q:\19\2019-149.00 - SLCIA Gate 10 and 11 Relocation\Elec\E302.dwg
Plotted on: 3/3/2020 9:24 AM

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PROFESSIONAL ENGINEER
9808039-2202
ALEKSANDAR RANKOVIC
STATE OF UTAH
03-04-2020

| REVISIONS | | | | |
|---|---|---|---|---|
| No. | DATE | REMARKS | BY | APV |
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|---|---|---|
| DESIGNED | AR/KD | 3/04/20 DATE |
| DRAWN | KD | 3/04/20 DATE |
| CHECKED | AR | 3/04/20 DATE |
| APPROVED | AR | |
| DATE | MARCH 4, 2020 | |

Salt Lake City Department of Airports

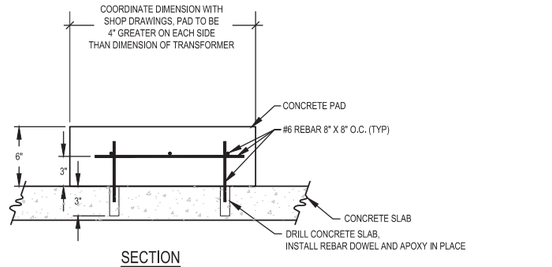
ENGINEERING DIVISION
SALT LAKE CITY
DEPARTMENT OF AIRPORTS
P.O. BOX 145550
SALT LAKE CITY, UT. 84114-5550

SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

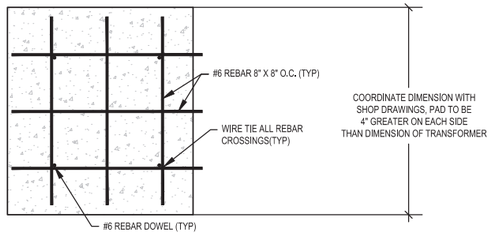
PARTIAL AOC FLOOR PLAN NORTH

BID DOCUMENTS

DRAWING E302
PROJECT 54 1019 1765
SHEET 105 OF 127

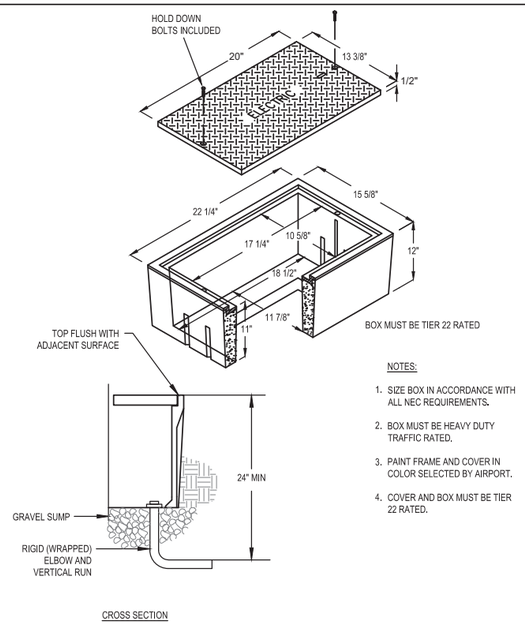



SECTION




PLAN VIEW

5 HOUSE KEEPING PAD DETAIL
SCALE: NONE

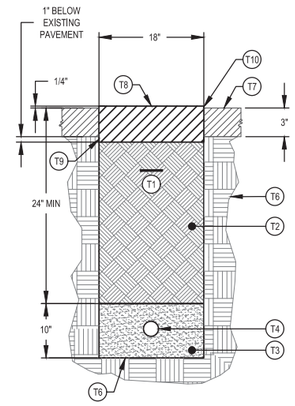



CROSS SECTION

NOTES:

1. SIZE BOX IN ACCORDANCE WITH ALL NEC REQUIREMENTS.
2. BOX MUST BE HEAVY DUTY TRAFFIC RATED.
3. PAINT FRAME AND COVER IN COLOR SELECTED BY AIRPORT.
4. COVER AND BOX MUST BE TIER 22 RATED.

4 IN-GRADE PULL BOX
SCALE: NONE



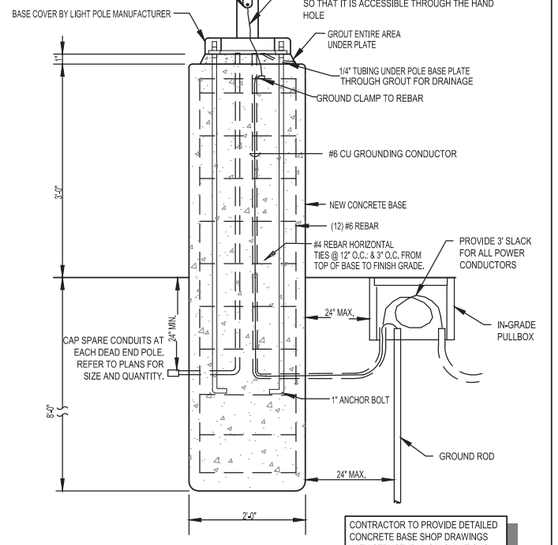

TRENCHING KEYED NOTES: (T#)

- T1 MARKER TAPE WITH TRACER WIRE LABELED, "CAUTION BURIED ELECTRIC CONDUITS BELOW" DIRECTLY OVER POWER CONDUITS 6" MINIMUM BELOW GRADE.
- T2 FLOWABLE FILL (800 PSI).
- T3 BACKFILL MATERIAL WITHIN 4" TO 6" OF CONDUIT SHALL PASS THROUGH A 3/4" SIEVE FRAME OR SAND WITHOUT ANY SHARP OR FOREIGN OBJECTS.
- T4 ALL CONDUITS SHOWN SHALL BE SCHEDULE 40 PVC. REFER TO PLANS FOR QUANTITY AND SIZE.
- T5 UNDISTURBED EARTH.
- T6 TRENCHES SHALL BE A UNIFORM DEPTH FOR ENTIRE LENGTH OF TRENCH SO CONDUITS CAN SIT FLAT (HORIZONTAL) WITH THE GROUND.
- T7 EXISTING 3" THICK BITUMINOUS SURFACE.
- T8 REMOVE EXISTING 3" THICK PAVEMENT AND INSTALL NEW BITUMINOUS SURFACE COURSE COMPACTED.
- T9 PLACE BITUMINOUS TACK COAT (P-603) AT EDGES.
- T10 SAWCUT THE BROKEN AREAS.

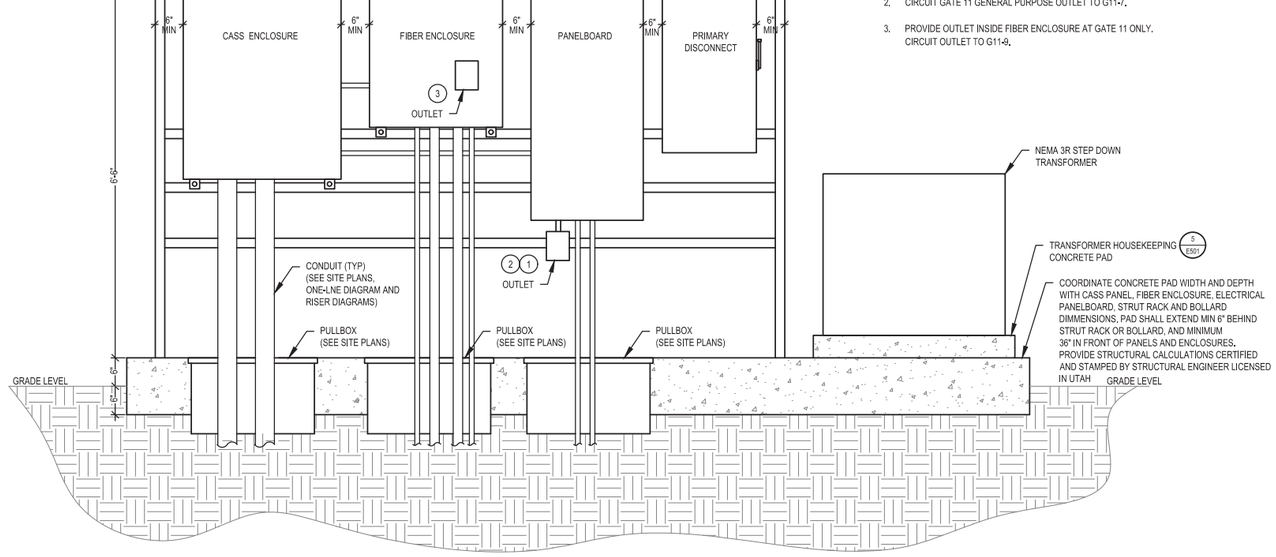
TRENCHING GENERAL NOTES:

1. PROVIDE 1/4" NYLON PULL ROPES IN ALL CONDUITS.
2. ALL MARKER TAPE SHALL CONTAIN #10 TRACER WIRE.
3. WHERE MULTIPLE CONDUITS ARE INSTALLED IN SAME TRENCH, PROVIDE MINIMUM 1" SPACE BETWEEN THE CONDUITS.

2 UNDERGROUND CONDUIT DETAIL
SCALE: NONE




3 POLE BASE DETAIL
SCALE: NONE




KEYED NOTES: (#)

1. CIRCUIT GATE 10 GENERAL PURPOSE OUTLET TO G10-20.
2. CIRCUIT GATE 11 GENERAL PURPOSE OUTLET TO G11-7.
3. PROVIDE OUTLET INSIDE FIBER ENCLOSURE AT GATE 11 ONLY. CIRCUIT OUTLET TO G11-9.

1 SLCDA SECURITY GATE PANELS DETAIL
SCALE: NONE

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RELOCATION OF GATES 10 & 11

ELECTRICAL DETAILS

BID DOCUMENTS

DRAWING E501
PROJECT 54 1019 1765
SHEET 106 OF 127

Drawing: Q:\19\2019-149.00 - SLCIA Gate 10 and 11 Relocation\Elec\E501.dwg
Plotted on: 3/3/2020 9:24 AM

## LIGHTING WIRING DIAGRAMS

| SYMBOL | DESCRIPTION | MOUNTING | REMARKS |
|---|---|---|---|
| | LIGHT SWITCH | +48" | |
| | LOW VOLTAGE LIGHT SWITCH | +48" | 2-BUTTON ON/OFF CONTROL |
| | WALL MOUNT OCCUPANCY SENSOR WITH ON/OFF BUTTON | +48" | |
| | EXTERIOR PHOTOCELL | ROOF | FACE NORTH |
| | VACANCY SENSOR (AS NOTED ON PLANS) | CEILING | |
| | NORMAL POWER LIGHTING LOAD | CEILING | |
| | EMERGENCY POWER LIGHTING LOAD | CEILING | |
| H N XX | PP: POWER PACK<br>PP-D: DIMMING POWER PACK<br>PP-RC: POWER PACK RECEPTACLE CONTROLLER | CEILING | |
| ———— | 3/4"C WITH LIGHTING BRACH CIRCUIT WIRING | | |
| - - - - - - - - - - - - | 3/4"C WITH CAT 5 CABLING | | |

## LIGHTING CONTROL NOTES

1. PROGRAMMING SHALL BE COMPLETED BY THE CONTRACTOR PRIOR TO SUBSTANTIAL COMPLETION.

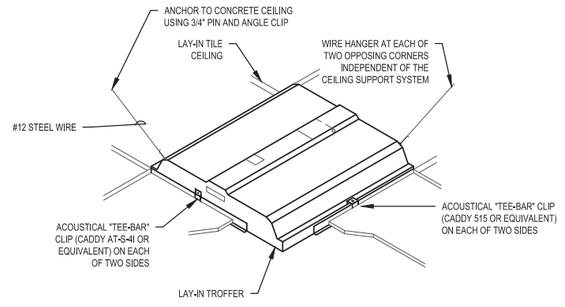
2. CONTRACTOR SHALL MODIFY PROGRAMMING AND PRESET SCENES AS REQUESTED BY OWNER.

3. PROVIDE FINE TUNING PROGRAMMING MODIFICATIONS AS REQUESTED BY THE OWNER WITHIN 6 MONTHS AFTER BUILIDING OCCUPANCY.

4. IN ADDITION TO PRESET SCENES PROVIDE INDIVIDUAL CONTROL FOR EACH ZONE.

5. ALL WIRING DIAGRAMS ARE GENERAL IN NATURE. SPECIFIC CONFIGURATION AND QUANTITIES DUE TO MANUFACTURE AVAILABILITY WILL VARY. CONTRACTOR MUST PROVIDE ALL REQUIRED PARTS OF THE SYSTEM TO PERFORM AS INTENDED.

6. REFER TO FLOOR PLANS FOR EXACT DEVICE COUNT, DEVICE TYPE, QUANTITY OF POWER PACKS, AND PHOTOCELL SETTINGS.




1 2X2 LAY-IN TROFFER MOUNTING DETAIL
SCALE: NONE

## LIGHT FIXTURE SCHEDULE

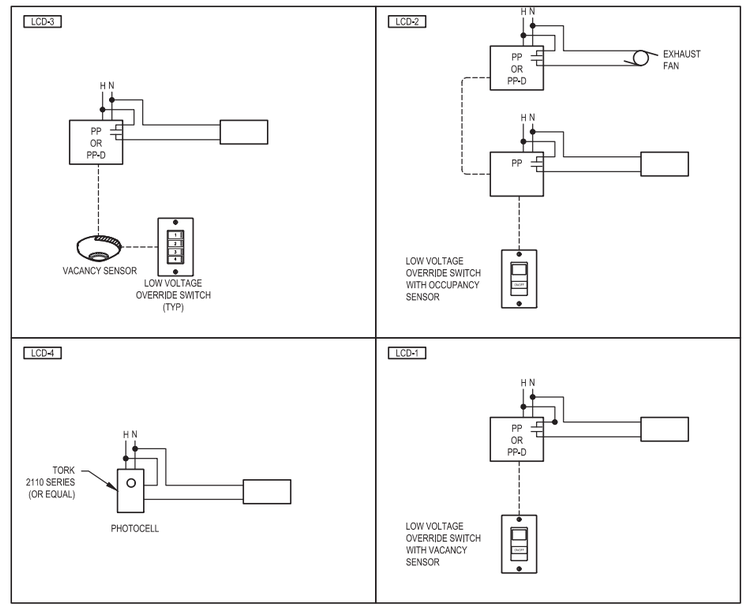
| TYPE | DESCRIPTION | LAMP | ELECTRICAL VOLTAGE | ELECTRICAL LOAD (W) | APPROVED MANUFACTURERS | MOUNTING | COLOR | CATALOG INFORMATION CATALOG NUMBER / SERIES | COMMENTS / NOTES |
|---|---|---|---|---|---|---|---|---|---|
| AA12 | LIGHT POLE WITH SINGLE HEAD AND TYPE 2 DISTRIBUITION INTERGRAL PHOTOCELL<br>POLE: 37' ROUND TAPERED STEEL POLE | LED<br>18,615 LUMENS PER HEAD | 208 | 188 | KIM LIGHTING OR APPROVED EQUAL | POLE | 5000K | 1A-AR2-P70-80L-5K-208-**-A31-DF<br>(OR APPROVED EQUIVALENT)<br>POLE: PROVIDE 37' TAPERED STEEL POLE, RATED FOR FIXTURE EPA AT 120MPH. PROVIDE CUSTOM POLE FINISH (SELECTED BY ARCHITECT)<br>** - STANDARD COLOR BY ARCHITECT | PROVIDE POLE VIBRATION DAMPENERS<br>PROVIDE CABLE HOOK AT TOP OF POLE FOR TRAIN RELIEF |
| C1 | 10" WIDE X 10" HIGH X 4" DEEP CANOPY LIGHT | LED<br>4500 LUMENS | 120 | 35 | LITHONIA OR APPROVED EQUAL | SURFACE | 4000K | CNY LED P1 40K MVOLT **<br>** - STANDARD COLOR BY ARCHITECT | LIGHTS SHALL BE CONTROLLED BY PHOTOCELL ON ROOF |
| S1 | 3' LONG LED STRIP LIGHT (3.5" W X 3.5" H)<br>ROUND DIFFUSE LENS<br>INTEGRAL 1400 LUMEN EMERGENCY BATTERY PACK | LED<br>3000 LUMENS | 120 | 21 | LITHONIA OR APPROVED EQUAL | SURFACE | 4000K | CLX L36 3000LM SEF RDL MVOLT GZ10 40K 80CRI PS1050 | |
| T1 | 2X2 RECESSED LED TROFFER<br>#19 PATTERN ACRYLIC LENS<br>1400 LUMEN EMERGENCY BATTERY PACK (AS REQUIRED) | LED<br>2000 LUMENS | 120 | 19 | LITHONIA OR APPROVED EQUAL | RECESSED | 4000K | 2GTL 2 20L A19 GZ10 LP840 (EL14L) | |
| W1 | EXTERIOR WALL SCONCE, WET LISTED<br>WIDE DISTRIBUTION<br>INTEGRAL PHOTOCELL AND EMERGENCY BATTERY PACK<br>9" HIGH X 11.5" WIDE X 7" DEEP | LED<br>1200 LUMENS | 120 | 15 | LITHONIA OR APPROVED EQUAL | WALL ABOVE DOOR | 4000K | WDGE2 LED P1 40K 80CRI VW MVOLT SRM E4WH PE **<br>** - STANDARD COLOR BY ARCHITECT | |
| W2 | 6' LONG LOW PROFILE WRAP<br>CURVED, SMOOTH LENS<br>INTEGRAL EMERGENCY BATTERY PACK<br>5.5" WIDE X 3.5" DEEP | LED<br>6000 LUMENS | 120 | 48 | LITHONIA OR APPROVED EQUAL | WALL | 4000K | BLWP2 20L ADSM EZ1 LP840 EL7L **<br>** - STANDARD COLOR BY ARCHITECT | COORDINATE EXACT HEIGHT WITH ARCHITECT |

## FIXTURE ABBREVIATIONS, GENERAL NOTES AND REQUIREMENTS

| | |
|---|---|
| A.F.F. | ABOVE FINISHED FLOOR |
| WALL@CLG. | WALL MOUNT AT CORNER OF WALL AND CEILING |
| CCBA | CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT |
| SCBA | STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT |
| CFBA | CUSTOM FINISH AS SELECTED BY THE ARCHITECT |
| SFBA | STANDARD FINISH AS SELECTED BY THE ARCHITECT |
| MOD | MODIFY STANDARD LIGHT FIXTURE AS INDICATED |

### LIGHT FIXTURE GENERAL NOTES

1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXUTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
2. REFER TO THE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF OF THE ARCHITECT PRIOR TO BIDDING.
3. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWING. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENDTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
4. PROVIDE AN UNSWITCHED HOT FOR ALL LIGHTS WITH EMERGENCY BATTERY PACK.

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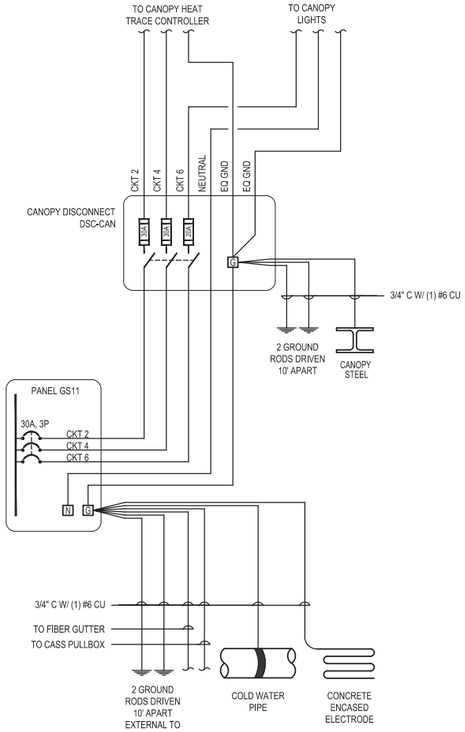
ELECTRICAL DETAILS

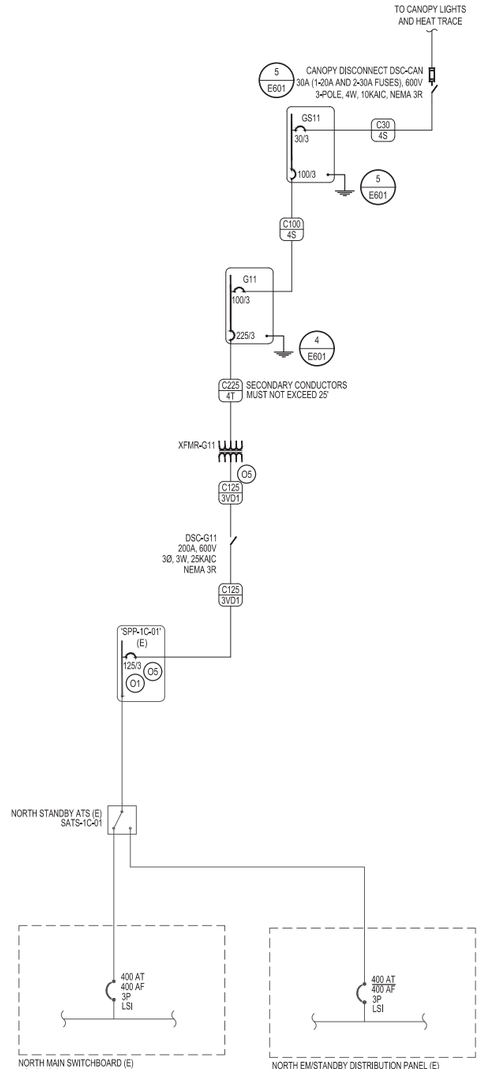
BID DOCUMENTS

DRAWING E502
PROJECT 54 1019 1765
SHEET 107 OF 127

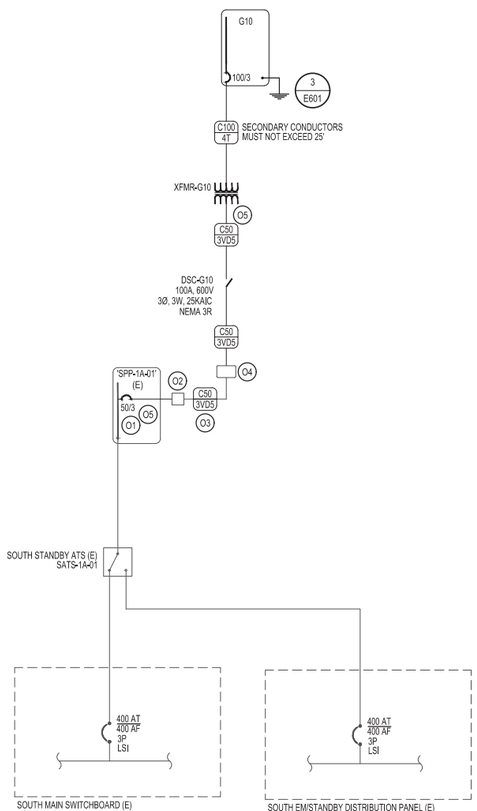
Drawing: Q:\19\2019-149.00 - SLCIA Gate 10 and 11 Relocation\Elec\E502.dwg
Plotted on: 3/3/2020 9:24 AM



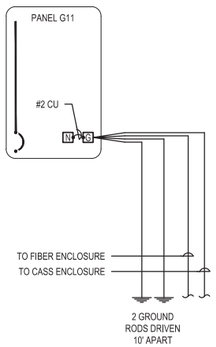

5 GS11 AND CANOPY GROUNDING DETAIL
SCALE: NONE



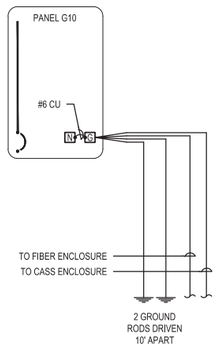

2 PARTIAL AOC ONE-LINE DIAGRAM - NORTH
SCALE: NONE




1 PARTIAL AOC ONE-LINE DIAGRAM - SOUTH
SCALE: NONE




4 G11 GROUNDING DETAIL
SCALE: NONE




3 G10 GROUNDING DETAIL
SCALE: NONE

## KEYED NOTES: (O#)

O1. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACES.

O2. EXISTING BUILDING PULLBOXES. SEE E301.

O3. RUN NEW CONDUCTOR THROUGH EXISTING CONDUITS. SEE E100.

O4. EXISTING IN-GRADE PULLBOXES. SEE E100.

O5. PROVIDE LARGER FRAME BREAKER, TERMINAL BLOCKS OR WIRE FERRULES AS REQUIRED TO ADJUST THE OVER-SIZED WIRE AT THE EQUIPMENT LOCATION.

## SELECTIVE COORDINATION REQUIREMENTS:

1. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE SELECTIVELY COORDINATED TO ENSURE THAT THE BREAKER OR OVERCURRENT PROTECTIVE DEVICE CLOSEST TO A FAULT OPENS UP FIRST AND ENSURES THAT THE REMAINING ELECTRICAL DISTRIBUTION SYSTEM CONTINUES TO FUNCTION. REFER TO SPECIFICATION SECTIONS 260572, 260573, AND 260574 FOR ADDITIONAL REQUIREMENTS.
2. THE SELECTIVE COORDINATION OF THE SYSTEM SHALL INCLUDE ALL NEW STANDBY PANELBOARDS AND OVERCURRENT PROTECTIVE DEVICES, AND ALL EXISTING STANDBY PANELBOARDS AND OVERCURRENT PROTECTIVE DEVICES THAT ARE BEING AFFECTED BY NEW WORK.
3. THE SELECTIVE COORDINATION OF THE SYSTEM SHALL BE COORDINATED TO A LEVEL OF 0.1 SECONDS.
4. PROVIDE ELECTRONIC SOLID STATE BREAKERS WITH LSI ADJUSTMENTS AS NECESSARY TO ENSURE PROPER COORDINATION WITH ALL EXISTING AND NEW OVERCURRENT DEVICES IN THE ELECTRICAL DISTRIBUTION SYSTEM WHETHER SHOWN OR NOT.
5. NO ELECTRICAL EQUIPMENT SUBMITTALS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO SUBMITTING THE SELECTIVE COORDINATION STUDY OF THE PROPOSED ELECTRICAL DISTRIBUTION EQUIPMENT AND ASSOCIATED OVERCURRENT DEVICES BEING PROVIDED. THE COORDINATION STUDY SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER FOR REVIEW TO ENSURE CONFORMANCE TO THE CONSTRUCTION DOCUMENTS. NO ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE RELEASED UNTIL THE SELECTIVE COORDINATION STUDY SHOWS PROPER COORDINATION OF ALL SYSTEM ELEMENTS.

### ONE-LINE DIAGRAM SYMBOLS

CT METER; DIGITAL BACnet METER; TRANSFER SWITCH; GROUND BAS BAR; SURGE PROTECTIVE DEVICE (CLASS C)

TRANSFORMER; MLO PANEL; MAIN CKB PANEL; MAIN FUSE PANEL

MOLDED CASE CIRCUIT BREAKER & ENCLOSURE; MOLDED CASE CIRCUIT BREAKER; ADJUSTABLE ELECTRONIC CIRCUIT BREAKER (LSIG: L LONG TIME SETTINGS, S SHORT TIME SETTINGS, I INSTANTANEOUS SETTINGS, G GROUND FAULT PROTECTION SETTINGS); DIGITAL MULTIMETER (DMM)

NON-FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH; GROUND AND NEUTRAL (NO BOND); GROUND AND NEUTRAL (BOND); KIRK KEY INTERLOCK

GENERATOR; BATTERY CABINET (350/2); UPS

C50 3S — C50,4S
C=COPPER, A=ALUMINUM
AMPERAGE
NUMBER OF WIRE
FEEDER CALLOUT DETAIL
S = STANDARD
H = HARMONICS ON NEUTRAL
IG = ISOLATED GROUND
T = TRANSFORMER
DN = 200% NEUTRAL
VD = VOLTAGE DROP
(REFER TO FEEDER SCHEDULE)

| FEEDER | # OF SETS | CONDUIT DIAMETER | CURRENT CARRYING CONDUCTOR | # | EQUIPMENT GROUNDING CONDUCTOR | # | ISOLATED GROUNDING CONDUCTOR | # | SYSTEM BONDING JUMPER CONDUCTOR |
|---|---|---|---|---|---|---|---|---|---|
| C30,4S | 1 | 1 | 4 | 10 | - | - | - | - | - |
| C50,3VD5 | 1 | 2 | 3 | 1/0 | 1 | 4 | - | - | - |
| C100,4S | 1 | 2 | 4 | 1 | 1 | 8 | - | - | - |
| C100,4T | 1 | 2 | 4 | 1 | - | - | - | - | 1 | 8 |
| C125,3VD1 | 1 | 2.5 | 3 | 4/0 | 1 | 2 | - | - | - | - |
| C225,4T | 1 | 2.5 | 4 | 250 | - | - | - | - | 1 | 2 |

### DRY-TYPE TRANSFORMER SCHEDULE

| NAME | KVA | PRIMARY VOLTAGE | PRIMARY CONNECTION | SECONDARY VOLTAGE | SECONDARY CONNECTION | GROUNDING CONDUCTOR | GROUNDING CONDUIT | K FACTOR | ELECTRO-STATIC SHIELD | ENCLOSURE | MOUNTING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| XFMR-G10 | 30 | 480 | DELTA | 120/208 | WYE | #6 | 1" | 1 | YES | NEMA 3R | PAD | |
| XFMR-G11 | 75 | 480 | DELTA | 120/208 | WYE | #2 | 1.5" | 1 | YES | NEMA 3R | PAD | |

4 G11 GROUNDING DETAIL
SCALE: NONE

3 G10 GROUNDING DETAIL
SCALE: NONE

2 PARTIAL AOC ONE-LINE DIAGRAM - NORTH
SCALE: NONE

1 PARTIAL AOC ONE-LINE DIAGRAM - SOUTH
SCALE: NONE

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SHEET 108 OF 127

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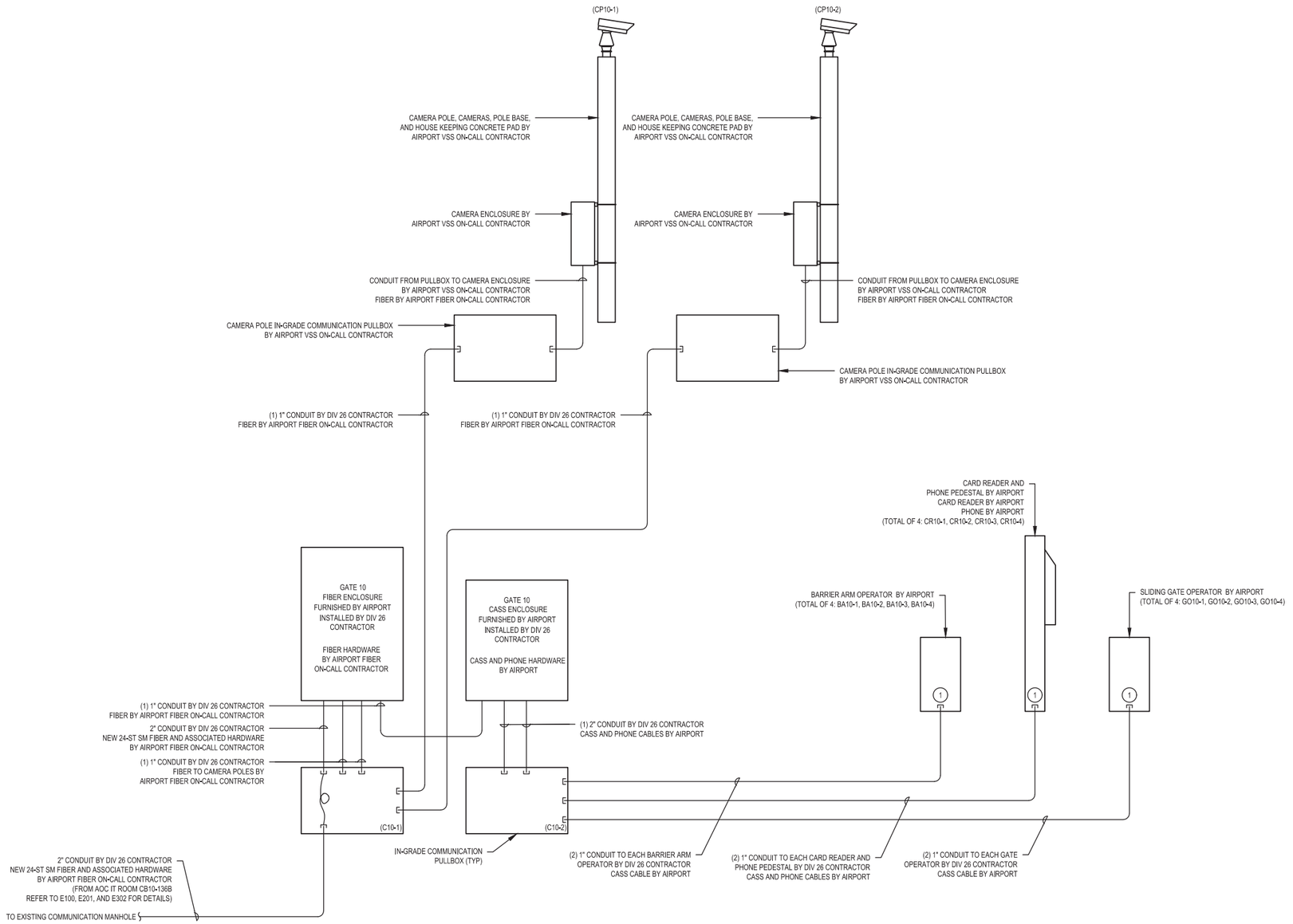


1 GATE 10 TELECOM AND SECURITY RISER DIAGRAM
SCALE: NONE

## KEYED NOTES: (#)

1. STUB CONDUITS INTO EQUIPMENT ENCLOSURES. COORDINATE EXACT CONDUIT STUB-UP LOCATIONS WITH AIRPORT PRIOR TO ROUGH-IN.

## GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL CONDUITS AND IN-GRADE PULLBOXES SHALL BE FURNISHED AND INSTALLED BY DIV 26 CONTRACTOR. PROVIDE PULL STRING IN ALL CONDUITS.
2. ALL FIBER AND ASSOCIATED FIBER HARDWARE SHALL BE FURNISHED AND INSTALLED BY AIRPORT FIBER ON-CALL CONTRACTOR.
3. CAMERA POLE BASE, CAMERA POLE, CAMERA ENCLOSURE, CAMERAS, CAMERA POLE CONCRETE PAD, PAD COMMUNICATION IN-GRADE PULLBOX, PAD ELECTRICAL IN-GRADE PULLBOX, AND CONDUITS FROM PAD COMMUNICATION AND ELECTRICAL IN-GRADE PULLBOXES TO CAMERA ENCLOSURE SHALL BE FURNISHED AND INSTALLED BY AIRPORT VSS (VIDEO SURVEILLANCE SYSTEM) ON-CALL CONTRACTOR.
4. GENERAL CONTRACTOR SHALL EXCAVATE AS REQUIRED FOR AIRPORT VSS ON-CALL CONTRACTOR TO INSTALL CONCRETE PAD.
5. FIBER AND CASS ENCLOSURES SHALL BE FURNISHED BY AIRPORT AND INSTALLED BY DIV 26 CONTRACTOR.
6. CASS AND PHONE HARDWARE, CABLES, AND DEVICES SHALL BE FURNISHED AND INSTALLED BY AIRPORT.
7. SLIDING GATE OPERATORS, BARRIER ARM GATE OPERATORS, AND CARD READER/PHONE PEDESTALS SHALL BE FURNISHED AND INSTALLED BY AIRPORT.
8. GENERAL AND DIV 26 CONTRACTOR SHALL COORDINATE ALL WORK WITH AIRPORT, AIRPORT FIBER ON-CALL CONTRACTOR, AND AIRPORT VSS ON-CALL CONTRACTOR.

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SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

GATE 10 TELECOM AND SECURITY RISER DIAGRAM

BID DOCUMENTS

DRAWING E701
PROJECT 54 1019 1765
SHEET 109 OF 127

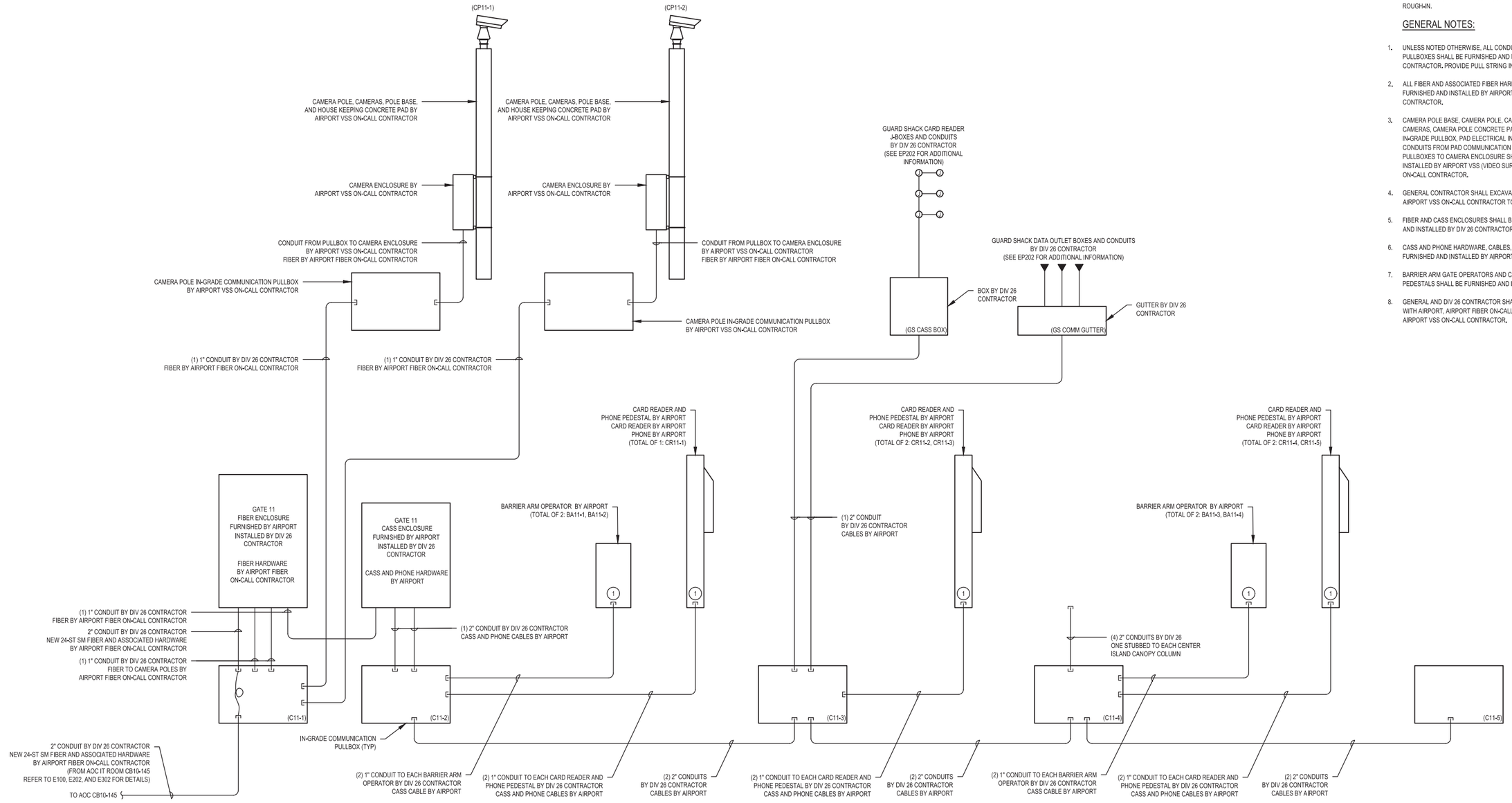
Drawing: C:\19\2019-149.00 - SLCIA Gate 10 and 11 Relocation\Elec\E701.dwg
Plotted on: 3/5/2020 9:24 AM

## KEYED NOTES: (#)

1. STUB CONDUITS INTO EQUIPMENT ENCLOSURES. COORDINATE EXACT CONDUIT STUB-UP LOCATIONS WITH AIRPORT PRIOR TO ROUGH-IN.

## GENERAL NOTES:

1. UNLESS NOTED OTHERWISE, ALL CONDUITS AND IN-GRADE PULLBOXES SHALL BE FURNISHED AND INSTALLED BY DIV 26 CONTRACTOR. PROVIDE PULL STRING IN ALL CONDUITS.
2. ALL FIBER AND ASSOCIATED FIBER HARDWARE SHALL BE FURNISHED AND INSTALLED BY AIRPORT FIBER ON-CALL CONTRACTOR.
3. CAMERA POLE BASE, CAMERA POLE, CAMERA ENCLOSURE, CAMERAS, CAMERA POLE CONCRETE PAD, PAD COMMUNICATION IN-GRADE PULLBOX, PAD ELECTRICAL IN-GRADE PULLBOX, AND CONDUITS FROM PAD COMMUNICATION AND ELECTRICAL IN-GRADE PULLBOXES TO CAMERA ENCLOSURE SHALL BE FURNISHED AND INSTALLED BY AIRPORT VSS (VIDEO SURVEILLANCE SYSTEM) ON-CALL CONTRACTOR.
4. GENERAL CONTRACTOR SHALL EXCAVATE AS REQUIRED FOR AIRPORT VSS ON-CALL CONTRACTOR TO INSTALL CONCRETE PAD.
5. FIBER AND CASS ENCLOSURES SHALL BE FURNISHED BY AIRPORT AND INSTALLED BY DIV 26 CONTRACTOR.
6. CASS AND PHONE HARDWARE, CABLES, AND DEVICES SHALL BE FURNISHED AND INSTALLED BY AIRPORT.
7. BARRIER ARM GATE OPERATORS AND CARD READER/PHONE PEDESTALS SHALL BE FURNISHED AND INSTALLED BY AIRPORT.
8. GENERAL AND DIV 26 CONTRACTOR SHALL COORDINATE ALL WORK WITH AIRPORT, AIRPORT FIBER ON-CALL CONTRACTOR, AND AIRPORT VSS ON-CALL CONTRACTOR.




1 GATE 11 TELECOM AND SECURITY RISER DIAGRAM
SCALE: NONE


ENVISION ENGINEERING
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PROFESSIONAL ENGINEER R608039-2202 ALEKSANDAR RANKOVIC STATE OF UTAH 03-04-2020

| REVISIONS | | | | |
|---|---|---|---|---|
| No. | DATE | REMARKS | BY | APV |

| | | |
|---|---|---|
| DESIGNED | AR/KD | 3/04/20 DATE |
| DRAWN | KD | 3/04/20 DATE |
| CHECKED | AR | 3/04/20 DATE |
| APPROVED | AR | |
| DATE | MARCH 4, 2020 | |

Salt Lake City Department of Airports

ENGINEERING DIVISION
SALT LAKE CITY
DEPARTMENT OF AIRPORTS
P.O. BOX 145550
SALT LAKE CITY, UT. 84114-5550

SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

GATE 11 TELECOM AND SECURITY RISER DIAGRAM

BID DOCUMENTS

DRAWING E702
PROJECT 54 1019 1765
SHEET 110 OF 127

Drawing: C:\19\2019-149.00 - SLCIA Gate 10 and 11 Relocation\Elec\E702.dwg
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# PANELBOARD SCHEDULE

PANEL NAME: GS11
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DOOR STYLE: DOOR-IN-DOOR

VOLTAGE: 208Y/120
PHASE: 3
WIRE: 4
MIN. A.I.C. RATING: 10KA

MAINS TYPE: MCB
BUS MATERIAL: COPPER
BUS RATING: 100 AMPS
MCB RATING: 100 AMPS

SPD: CATEGORY "A"
NEUTRAL: 100% RATED
BRANCH OCP TYPE: BOLT-ON CBs
ISOLATED GROUND: NO

| KEYED NOTE | CIRCUIT DESCRIPTION | BREAKER AMPS | BREAKER POLE | LOAD TYPE | CKT. # | CONNECTED LOAD/PHASE (VA) A | B | C | CKT. # | LOAD TYPE | BREAKER AMPS | BREAKER POLE | CIRCUIT DESCRIPTION | KEYED NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EXTERIOR GEN. PURPOSE OUTLETS | 20 | 1 | R | 1 | 540 1,908 | | | 2 | L | 30 | 3 | CANOPY LIGHTING AND HEAT TRACE | |
| | INTERIOR GEN. PURPOSE OUTLETS | 20 | 1 | R | 3 | | 720 1,908 | | 4 | L | - | - | - | |
| | BATTERY CHARGER | 20 | 1 | R | 5 | | | 500 700 | 6 | L | - | - | - | |
| | BATTERY CHARGER | 20 | 1 | R | 7 | 500 232 | | | 8 | L | 20 | 1 | GUARD SHACK LTG AND EF | |
| | WORKSTATION OUTLET | 20 | 1 | R | 9 | | 360 200 | | 10 | L | 20 | 1 | EXTERIOR LED SIGN | |
| | MICROWAVE | 20 | 1 | K | 11 | | | 1,200 2,050 | 12 | M | 30 | 2 | IWH-1 | |
| | ABOVE COUNTER APPLIANCE | 20 | 1 | K | 13 | 600 2,050 | | | 14 | M | - | - | - | |
| | ABOVE COUNTER APPLIANCE | 20 | 1 | K | 15 | | 600 1,500 | | 16 | M | 20 | 1 | EWH-1 | |
| | REFRIGERATOR | 20 | 1 | K | 17 | | | 600 1,976 | 18 | M | 40 | 2 | SSO-1 | |
| | SPARE | 20 | 1 | | 19 | | 1,976 | | 20 | M | - | - | - | |
| | FUTURE IT EQUIPMENT | 20 | 1 | E | 21 | | 600 828 | | 22 | M | 20 | 1 | GARBAGE DISPOSAL | |
| | SPARE | 20 | 1 | | 23 | | | | 24 | | 30 | 2 | SPARE | |
| | SPARE | 20 | 1 | | 25 | | | | 26 | - | - | - | - | |
| | SPARE | 20 | 1 | | 27 | | | | 28 | | 20 | 2 | SPARE | |
| | SPARE | 20 | 1 | | 29 | | | | 30 | | - | - | - | |
| | SPACE ONLY | 20 | 1 | | 31 | | | | 32 | | 20 | 1 | SPARE | |
| | SPACE ONLY | 20 | 1 | | 33 | | | | 34 | | 20 | 1 | SPARE | |
| | SPACE ONLY | 20 | 1 | | 35 | | | | 36 | | 20 | 1 | SPARE | |
| | SPD | 40 | 3 | | 37 | | | | 38 | | 20 | 1 | SPACE ONLY | |
| | - | - | - | | 39 | | | | 40 | | 20 | 1 | SPACE ONLY | |
| | - | - | - | | 41 | | | | 42 | | 20 | 1 | SPACE ONLY | |
| | TOTAL CONNECTED LOAD PER PHASE (VA): | | | | | 7,806 | 6,716 | 7,026 | | | | | | |
| | TOTAL ESTIMATED DEMAND LOAD PER PHASE (VA): | | | | | 8,734 | 7,123 | 7,354 | | | | | | |
| | TOTAL ESTIMATED DEMAND LOAD PER PHASE (AMPS): | | | | | 73 | 59 | 61 | | | | | | |

| TYPE | LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS |
|---|---|---|---|---|---|
| P | SUB-PANEL | SUB-PANEL LOADS BROKEN OUT BY LOAD CLASIFICATION BELOW | | | |
| R | RECEPTACLES | 2,620 VA | 100% | 2,620 VA | TOTAL CONNECTED LOAD: 21,548 VA |
| L | LIGHTING | 4,948 VA | 125% | 6,185 VA | 25% OF LARGEST MOTOR: 1,025 VA |
| C | CONTINUOUS | - | - | - | TOTAL ESTIMATED DEMAND LOAD: 23,210 VA |
| E | EQUIPMENT | 600 VA | 100% | 600 VA | TOTAL ESTIMATED DEMAND BALANCED CURRENT: 64 AMPS |
| M | MOTOR | 10,380 VA | 100% | 10,380 VA | MAXIMUM ESTIMATED DEMAND PHASE CURRENT: 73 AMPS |
| K | KITCHEN | 3,000 VA | 80% | 2,400 VA | |
| | OTHER | - | - | - | |

# PANELBOARD SCHEDULE

PANEL NAME: G10
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R
DOOR STYLE: STANDARD

VOLTAGE: 208Y/120
PHASE: 3
WIRE: 4
MIN. A.I.C. RATING: 22KA

MAINS TYPE: MCB
BUS MATERIAL: COPPER
BUS RATING: 100 AMPS
MCB RATING: 100 AMPS

SPD: CATEGORY "A"
NEUTRAL: 100% RATED
BRANCH OCP TYPE: BOLT-ON CBs
ISOLATED GROUND: NO

| KEYED NOTE | CIRCUIT DESCRIPTION | BREAKER AMPS | BREAKER POLE | LOAD TYPE | CKT. # | CONNECTED LOAD/PHASE (VA) A | B | C | CKT. # | LOAD TYPE | BREAKER AMPS | BREAKER POLE | CIRCUIT DESCRIPTION | KEYED NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GATE OPERATOR | 20 | 3 | E | 1 | 1,680 1,680 | | | 2 | E | 20 | 3 | GATE OPERATOR | |
| | - | - | - | E | 3 | | 1,680 1,680 | | 4 | E | - | - | - | |
| | - | - | - | E | 5 | | | 1,680 1,680 | 6 | E | - | - | - | |
| | GATE OPERATOR | 20 | 3 | E | 7 | 1,680 1,680 | | | 8 | E | 20 | 3 | GATE OPERATOR | |
| | - | - | - | E | 9 | | 1,680 1,680 | | 10 | E | - | - | - | |
| | - | - | - | E | 11 | | | 1,680 1,680 | 12 | E | - | - | - | |
| | BARRIER ARM | 20 | 1 | E | 13 | 1,200 600 | | | 14 | E | 20 | 1 | CAMERA POLE | |
| | BARRIER ARM | 20 | 1 | E | 15 | | 1,200 600 | | 16 | E | 20 | 1 | CAMERA POLE | |
| | BARRIER ARM | 20 | 1 | E | 17 | | | 1,200 600 | 18 | E | 20 | 1 | CASS ENCLOSURE | |
| | BARRIER ARM | 20 | 1 | E | 19 | 1,200 180 | | | 20 | R | 20 | 1 | GATE OUTLET | |
| | GATE SITE LIGHTING | 20 | 2 | L | 21 | 282 | | | 22 | | 20 | 1 | SPARE | |
| | - | - | - | | 23 | | | 282 | 24 | | 20 | 1 | SPARE | |
| | ROADWAY LIGHTING | 20 | 2 | | 25 | | | | 26 | | 20 | 1 | SPARE | |
| | - | - | - | | 27 | | | | 28 | | 20 | 1 | SPARE | |
| | SPARE | 20 | 1 | | 29 | | | | 30 | | 20 | 1 | SPARE | |
| | SPACE ONLY | 20 | 1 | | 31 | | | | 32 | | 20 | 1 | SPACE ONLY | |
| | SPACE ONLY | 20 | 1 | | 33 | | | | 34 | | 20 | 1 | SPACE ONLY | |
| | SPACE ONLY | 20 | 1 | | 35 | | | | 36 | | 20 | 1 | SPACE ONLY | |
| | SPD | 40 | 3 | | 37 | | | | 38 | | 20 | 1 | SPACE ONLY | |
| | - | - | - | | 39 | | | | 40 | | 20 | 1 | SPACE ONLY | |
| | - | - | - | | 41 | | | | 42 | | 20 | 1 | SPACE ONLY | |
| | TOTAL CONNECTED LOAD PER PHASE (VA): | | | | | 9,900 | 8,802 | 8,802 | | | | | | |
| | TOTAL ESTIMATED DEMAND LOAD PER PHASE (VA): | | | | | 9,900 | 8,873 | 8,802 | | | | | | |
| | TOTAL ESTIMATED DEMAND LOAD PER PHASE (AMPS): | | | | | 83 | 74 | 73 | | | | | | |

| TYPE | LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS |
|---|---|---|---|---|---|
| P | SUB-PANEL | SUB-PANEL LOADS BROKEN OUT BY LOAD CLASIFICATION BELOW | | | |
| R | RECEPTACLES | 180 VA | 100% | 180 VA | TOTAL CONNECTED LOAD: 27,504 VA |
| L | LIGHTING | 282 VA | 125% | 353 VA | 25% OF LARGEST MOTOR: - |
| C | CONTINUOUS | - | - | - | TOTAL ESTIMATED DEMAND LOAD: 27,575 VA |
| E | EQUIPMENT | 26,760 VA | 100% | 26,760 VA | TOTAL ESTIMATED DEMAND BALANCED CURRENT: 77 AMPS |
| M | MOTOR | - | - | - | MAXIMUM ESTIMATED DEMAND PHASE CURRENT: 83 AMPS |
| K | KITCHEN | - | - | - | |
| | OTHER | 282 VA | 100% | 282 VA | |

# PANELBOARD SCHEDULE

PANEL NAME: G11
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R
DOOR STYLE: STANDARD

VOLTAGE: 208Y/120
PHASE: 3
WIRE: 4
MIN. A.I.C. RATING: 22KA

MAINS TYPE: MCB
BUS MATERIAL: COPPER
BUS RATING: 225 AMPS
MCB RATING: 225 AMPS

SPD: CATEGORY "A"
NEUTRAL: 100% RATED
BRANCH OCP TYPE: BOLT-ON CBs
ISOLATED GROUND: NO

| KEYED NOTE | CIRCUIT DESCRIPTION | BREAKER AMPS | BREAKER POLE | LOAD TYPE | CKT. # | CONNECTED LOAD/PHASE (VA) A | B | C | CKT. # | LOAD TYPE | BREAKER AMPS | BREAKER POLE | CIRCUIT DESCRIPTION | KEYED NOTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GATE SITE LIGHTING | 20 | 1 | L | 1 | 94 1,200 | | | 2 | E | 20 | 1 | BARRIER ARM | |
| | - | 20 | 1 | L | 3 | | 94 1,200 | | 4 | E | 20 | 1 | BARRIER ARM | |
| | CASS ENCLOSURE | 20 | 1 | E | 5 | | | 600 1,200 | 6 | E | 20 | 1 | BARRIER ARM | |
| | GATE OUTLET | 20 | 1 | R | 7 | 180 1,200 | | | 8 | E | 20 | 1 | BARRIER ARM | |
| | GATE FIBER ENCLOSURE | 20 | 1 | E | 9 | | 600 600 | | 10 | E | 20 | 1 | CAMERA POLE | |
| | SPARE | 20 | 1 | | 11 | | | 600 | 12 | E | 20 | 1 | CAMERA POLE | |
| | - | - | 1 | | 13 | | | | 14 | | 20 | 1 | SPARE | |
| | SPARE | 20 | 1 | | 15 | | | | 16 | | 20 | 1 | SPARE | |
| | SPARE | 20 | 1 | | 17 | | | | 18 | | 20 | 1 | SPARE | |
| | SPARE | 20 | 1 | | 19 | | | | 20 | | 20 | 1 | SPARE | |
| | SPARE | 20 | 1 | | 21 | | | | 22 | | 20 | 1 | SPARE | |
| | SPARE | 20 | 1 | | 23 | | | | 24 | | 20 | 1 | SPARE | |
| | SPACE ONLY | 20 | 1 | | 25 | | | | 26 | | 20 | 1 | SPARE | |
| | SPACE ONLY | 20 | 1 | | 27 | | | | 28 | | 20 | 1 | SPARE | |
| | SPACE ONLY | 20 | 1 | | 29 | | | | 30 | | 20 | 1 | SPARE | |
| | SPACE ONLY | 20 | 1 | | 31 | | | | 32 | | 20 | 1 | SPACE ONLY | |
| | SPACE ONLY | 20 | 1 | | 33 | | | | 34 | | 20 | 1 | SPACE ONLY | |
| | SPACE ONLY | 20 | 1 | | 35 | | | | 36 | | 20 | 1 | SPACE ONLY | |
| | SPD | 40 | 3 | | 37 | | | | 38 | | 100 | 3 | GS11 | |
| | - | - | - | | 39 | | | | 40 | | - | - | - | |
| | - | - | - | | 41 | | | | 42 | | - | - | - | |
| | TOTAL CONNECTED LOAD PER PHASE (VA): | | | | | 10,888 | 9,617 | 9,754 | | | | | | |
| | TOTAL ESTIMATED DEMAND LOAD PER PHASE (VA): | | | | | 10,912 | 9,641 | 9,754 | | | | | | |
| | TOTAL ESTIMATED DEMAND LOAD PER PHASE (AMPS): | | | | | 91 | 80 | 81 | | | | | | |

| TYPE | LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS |
|---|---|---|---|---|---|
| P | SUB-PANEL | SUB-PANEL LOADS BROKEN OUT BY LOAD CLASIFICATION BELOW | | | |
| R | RECEPTACLES | 180 VA | 100% | 180 VA | TOTAL CONNECTED LOAD: 30,259 VA |
| L | LIGHTING | 188 VA | 125% | 235 VA | 25% OF LARGEST MOTOR: - |
| C | CONTINUOUS | - | - | - | TOTAL ESTIMATED DEMAND LOAD: 30,306 VA |
| E | EQUIPMENT | 7,200 VA | 100% | 7,200 VA | TOTAL ESTIMATED DEMAND BALANCED CURRENT: 84 AMPS |
| M | MOTOR | - | - | - | MAXIMUM ESTIMATED DEMAND PHASE CURRENT: 91 AMPS |
| K | KITCHEN | - | - | - | |
| | OTHER | 22,691 VA | 100% | 22,691 VA | |

# MECHANICAL EQUIPMENT SCHEDULE

| UNIT NAME | DESCRIPTION | LOAD | TYPE | VOLTAGE | PHASE | AMPERAGE | CONDUIT SIZE | WIRES NO. | WIRES SIZE | EQ GND SIZE | STARTER / DISCONNECT/ CONNECTION AT UNIT NOTE | STARTER SIZE | OCP SIZE | OCP POLES | DISCONNECT SIZE | DISCONNECT POLES | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | EXHAUST FAN | 82 | W | 120 | 1 | 0.7 | 3/4" | 2 | 12 | 12 | 1A | - | 1 HP | 1 | 1HP | 1 | CONTROL WITH LIGHTS |
| EWH-1 | ELECTRIC WALL HEATER | 1500 | W | 120 | 1 | 12.5 | 3/4" | 2 | 12 | 12 | 10A | - | 20 | 1 | 30 | 1 | NEMA 1, SEE NOTE 1 BELOW |
| IWH-1 | WATER HEATER | 4100 | W | 208 | 1 | 19.7 | 3/4" | 2 | 10 | 10 | 10A | - | 25 | 2 | 30 | 2 | NEMA 1, SEE NOTE 1 BELOW |
| SSI-1 | INDOOR SPLIT SYSTEM UNIT | 1 | MCA | 208 | 1 | 1 | 3/4" | 2 | 12 | 12 | 1C | - | - | - | - | - | FED FROM SSO-1 |
| SSO-1 | OUTDOOR SPLIT SYSTEM UNIT | 19 | MCA | 208 | 1 | 19 | 3/4" | 2 | 8 | 10 | 10C | - | - | - | - | - | NEMA 3R |

SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

STARTER / DISCONNECT NOTES:

1. MANUAL STARTER WITH THERMAL OVERLOAD
2. MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY / CONTACTOR FOR ATC CONTROL
3. COMBINATION MAGNETIC STARTER / FUSED DISCONNECT
4. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)
5. COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)
6. REDUCED VOLTAGE STARTER
7. COMBINATION TWO-SPEED STARTER / FUSED DISCONNECT
8. COMBINATION TWO-SPEED STARTER / MOTOR CIRCUIT PROTECTOR (MCP)
9. NON-FUSED DISCONNECT SWITCH
10. FUSED DISCONNECT SWITCH
11. BREAKER AND ENCLOSURE
12. DIRECT CONNECTION
13. DUPLEX RECEPTACLE OUTLET
14. SPECIAL PURPOSE OUTLET
15. SHUNT-TRIP BREAKER AND ENCLOSURE
16. TOGGLE SWITCH
17. MAGNETIC STARTER

INSTALLATION NOTES:

A. FURNISHED, INSTALLED, & CONNECTED UNDER DIVISION 26.
B. FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS UNDER DIVISION 26.
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26.
D. FURNISHED, INSTALLED, & CONNECTED UNDER ANOTHER DIVISION
E. FURNISHED BY OWNER, INSTALLED & CONNECTED BY DIVISION 26

NOTES:
1. COORDINATE EXACT DISCONNECT REQUIREMENTS FOR EWH-1 AND IWH-1 WITH MANUFACTURER BEFORE ORDERING FUSED-DISCONNECT SWITCHES SPECIFIED HEREIN.


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REVISIONS

| No. | DATE | REMARKS | BY | APV |
|---|---|---|---|---|
| | | | | |

DESIGNED AR/KD 3/04/20 DATE
DRAWN KD 3/04/20 DATE
CHECKED AR 3/04/20 DATE
APPROVED AR
DATE MARCH 4, 2020

Salt Lake City Department of Airports

ENGINEERING DIVISION
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DEPARTMENT OF AIRPORTS
P.O. BOX 145550
SALT LAKE CITY, UT. 84114-5550

SALT LAKE CITY INTERNATIONAL AIRPORT
RELOCATION OF GATES 10 & 11

PANELBOARD SCHEDULES

BID DOCUMENTS

DRAWING E801
PROJECT 54 1019 1765
SHEET 111 OF 127

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