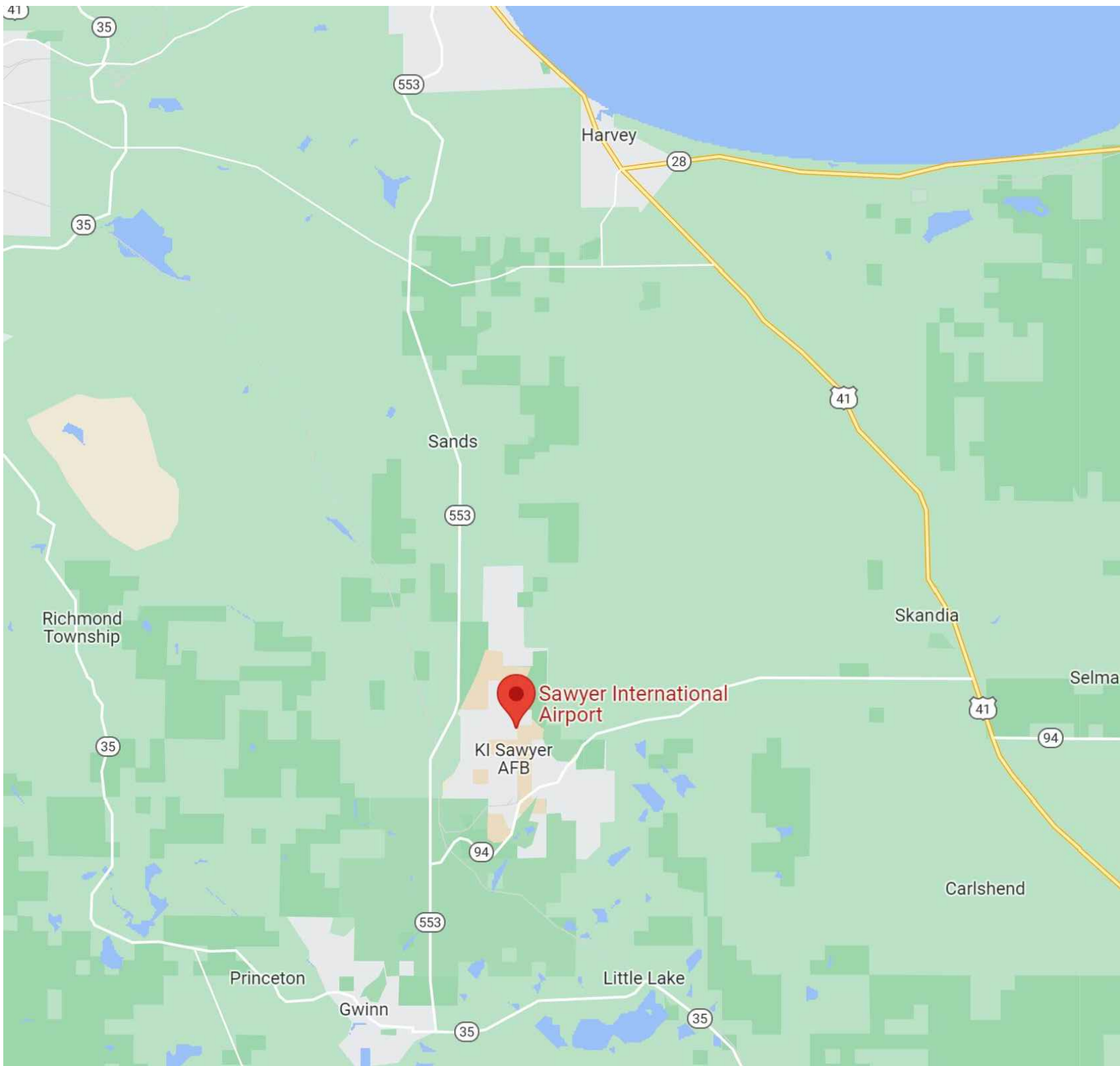


SAWYER INTERNATIONAL AIRPORT (MQT) SCREENING EQUIPMENT DEPLOYMENT SERVICES (SEDS)

TASK ORDER: 70T04021D7672N032
CONTRACT NUMBER: 70T04021D7672N003

**SMITHS WATERFALL CPSS
ISSUE FOR CONSTRUCTION**

10 MAY 2022



GWINN, MICHIGAN

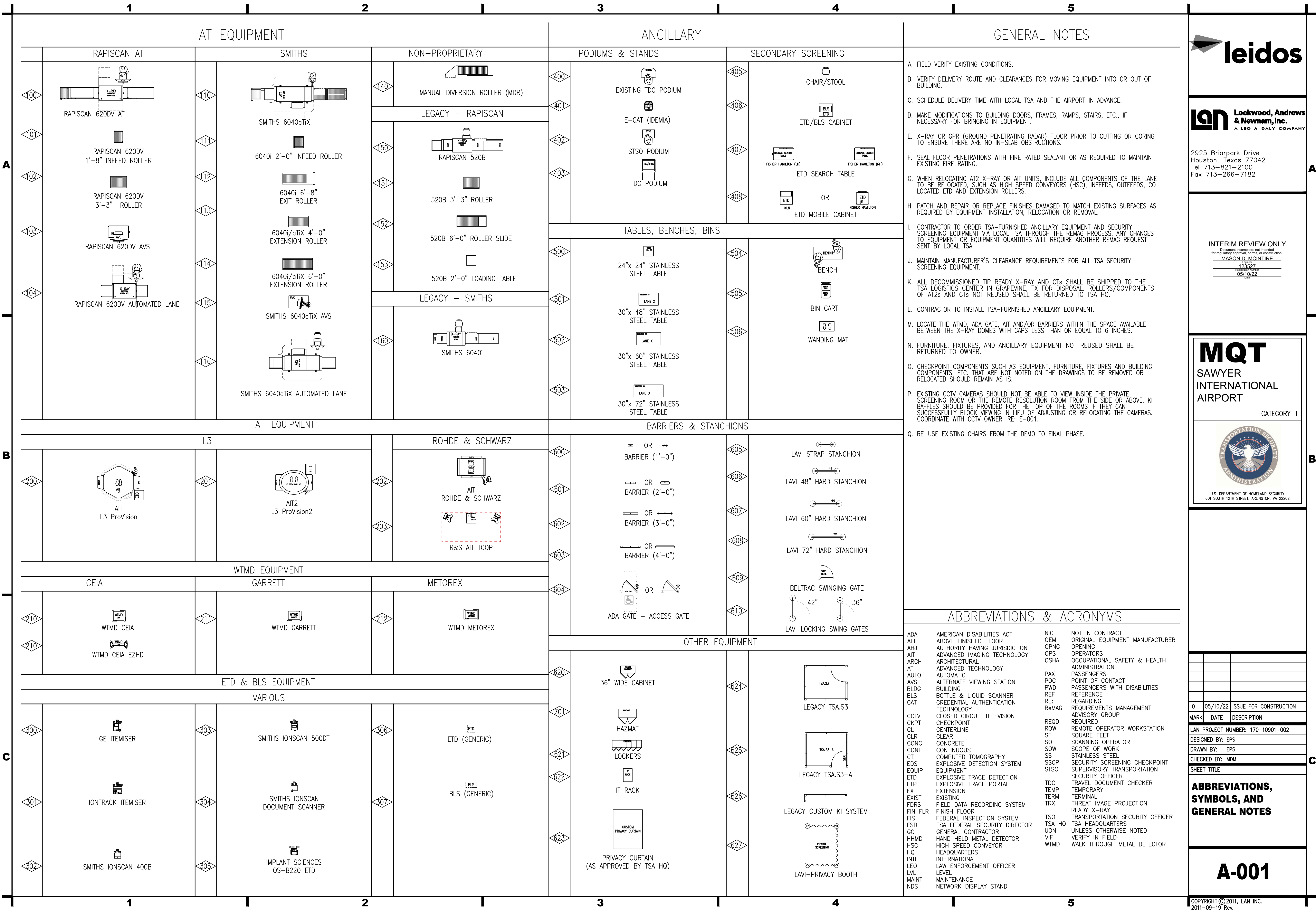
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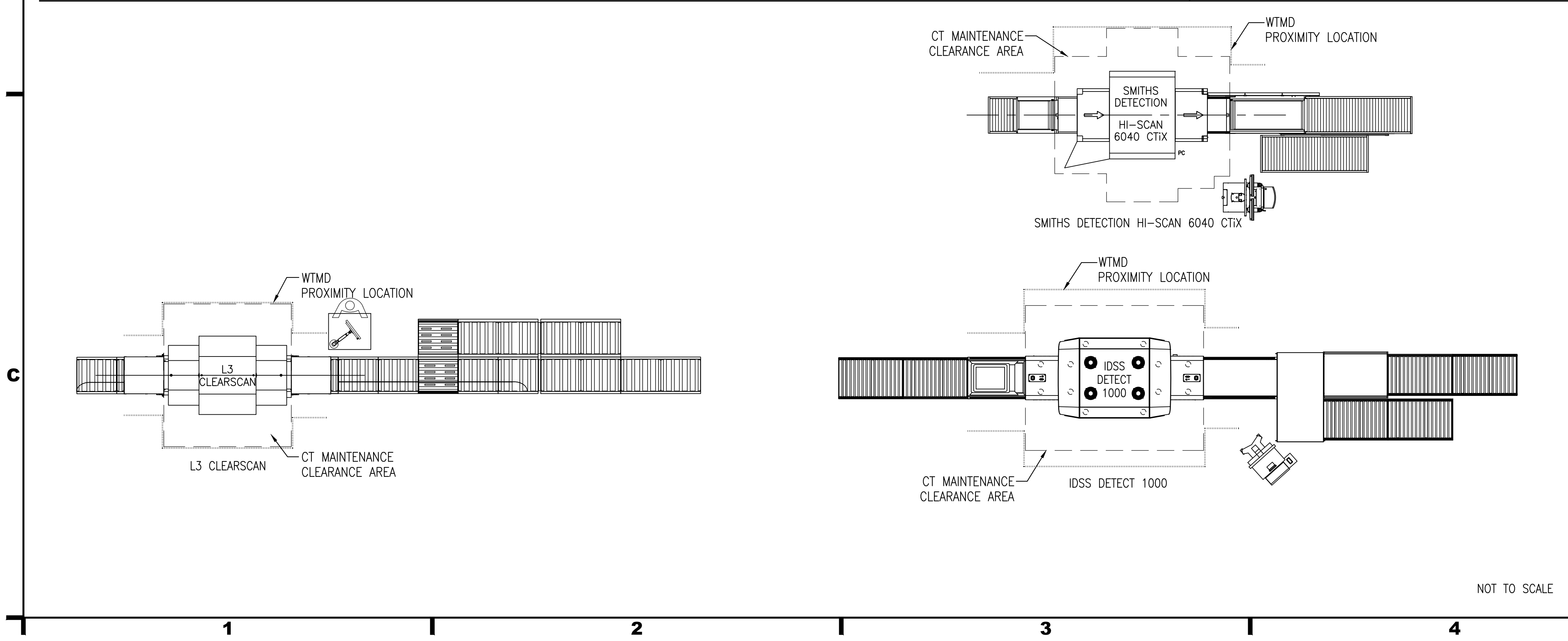
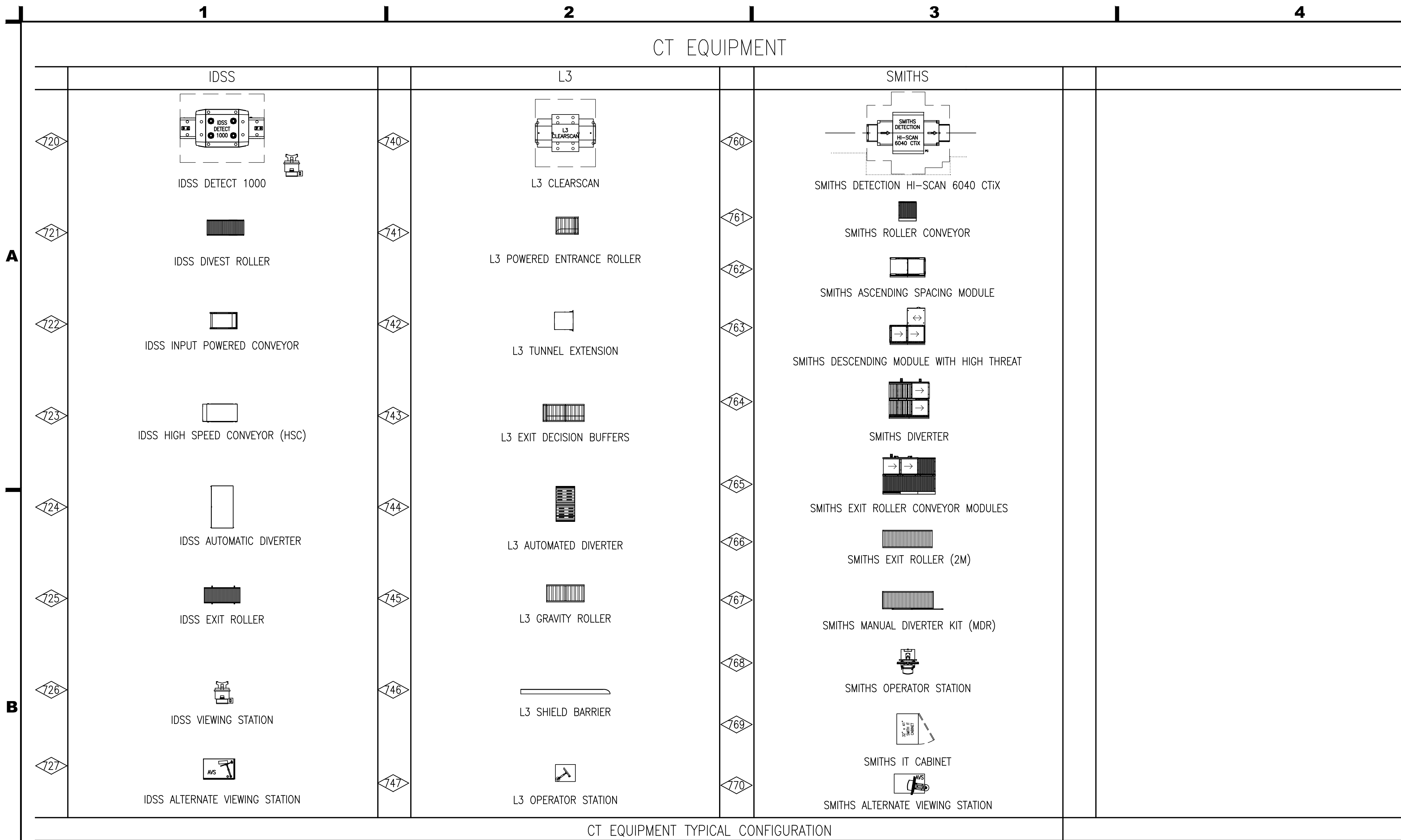
INDEX OF DRAWINGS				
REV. NO.	REV. DATE	ORIG. DATE	SHEET NO.	SHEET TITLE
GENERAL				
0		05/10/22	G-001	COVER SHEET AND INDEX
ARCHITECTURAL				
0		05/10/22	A-001	ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES
0		05/10/22	A-002	CT EQUIPMENT ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES
0		05/10/22	A-100	AIRPORT OVERALL PLAN
0		05/10/22	APD101	MAIN TERMINAL CHECKPOINT FLOOR PLAN – DEMOLITION
0		05/10/22	APN101	MAIN TERMINAL CHECKPOINT FLOOR PLAN – FINAL
0		05/10/22	ARN101	MAIN TERMINAL CHECKPOINT EQUIPMENT PLAN – FINAL
ELECTRICAL				
0		05/10/22	E-001	ABBREVIATIONS, SYMBOLS AND GENERAL NOTES
0		05/10/22	E-002	ELECTRICAL DETAILS
0		05/10/22	E-003	SMITHS DETECTION HI-SCAN CT SCANNER ELECTRICAL DETAILS
0		05/10/22	E-004	TELECOM CABLING ONE-LINE DIAGRAM
0		05/10/22	E-201	ELECTRICAL SPECIFICATIONS
0		05/10/22	E-202	ELECTRICAL SPECIFICATIONS
0		05/10/22	E-203	TELECOMMUNICATIONS SPECIFICATIONS
0		05/10/22	EPD101	MAIN TERMINAL CHECKPOINT ELECTRICAL PLAN – DEMOLITION
0		05/10/22	EPN101	MAIN TERMINAL CHECKPOINT ELECTRICAL PLAN – FINAL
0		05/10/22	E-601	ELECTRICAL PANEL SCHEDULES



Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY

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GENERAL NOTES

- A. FIELD VERIFY EXISTING CONDITIONS.
- B. VERIFY DELIVERY ROUTE AND CLEARANCES FOR MOVING EQUIPMENT INTO OR OUT OF BUILDING. REFER TO SHEET A-100 FOR TERMINAL/CHECKPOINT SPECIFIC DELIVERY ROUTES.
- C. SCHEDULE DELIVERY TIME WITH LOCAL TSA AND THE AIRPORT A MINIMUM OF 10 DAYS IN ADVANCE.
- D. MAKE MODIFICATIONS TO BUILDING DOORS, FRAMES, RAMPS, STAIRS, ETC., IF NECESSARY FOR BRINGING IN EQUIPMENT.
- E. X-RAY OR GPR (GROUND PENETRATING RADAR) FLOOR PRIOR TO CUTTING OR CORING TO ENSURE THERE ARE NO IN-SLAB OBSTRUCTIONS.
- F. SEAL FLOOR PENETRATIONS WITH FIRE RATED SEALANT OR AS REQUIRED TO MAINTAIN EXISTING FIRE RATING. ABANDONED FLOOR PENETRATIONS TO BE CAPPED WITH A FIRE RATED ABANDONMENT PLUG FOR FUTURE ACCESS BY OWNER.
- G. WHEN RELOCATING AT2 X-RAY OR AIT UNITS, INCLUDE ALL COMPONENTS OF THE LANE TO BE RELOCATED, SUCH AS HIGH SPEED CONVEYORS (HSC), INFEEDES, OUTFEEDS, CO LOCATED ETD AND EXTENSION ROLLERS.
- H. PATCH AND REPAIR OR REPLACE FINISHES DAMAGED TO MATCH EXISTING SURFACES AS REQUIRED BY EQUIPMENT INSTALLATION. RELOCATION OR REMOVAL EXISTING BOLT HOLES 3/8" OR SMALLER, EPOXY PATCHING IS ACCEPTABLE.
- I. CONTRACTOR TO ORDER TSA-FURNISHED ANCILLARY EQUIPMENT AND SECURITY SCREENING EQUIPMENT VIA LOCAL TSA THROUGH THE REMAG PROCESS. ANY CHANGES TO EQUIPMENT OR EQUIPMENT QUANTITIES WILL REQUIRE ANOTHER REMAG REQUEST SENT BY LOCAL TSA.
- J. MAINTAIN MANUFACTURER'S CLEARANCE REQUIREMENTS FOR ALL TSA SECURITY SCREENING EQUIPMENT.
- K. ALL DECOMMISSIONED TIP READY X-RAY AND CTs SHALL BE SHIPPED TO THE TSA LOGISTICS CENTER IN GRAPEVINE, TX FOR DISPOSAL. ROLLERS/COMPONENTS OF AT2s AND CTs NOT REUSED SHALL BE RETURNED TO TSA HQ.
- L. CONTRACTOR TO INSTALL TSA-FURNISHED ANCILLARY EQUIPMENT.
- M. LOCATE THE WTMD, ADA GATE, AIT AND/OR BARRIERS WITHIN THE SPACE AVAILABLE BETWEEN THE X-RAY DOMES WITH GAPS LESS THAN OR EQUAL TO 6 INCHES.
- N. FURNITURE, FIXTURES, AND ANCILLARY EQUIPMENT NOT REUSED SHALL BE RETURNED TO TSA HEADQUARTERS.
- O. CHECKPOINT COMPONENTS SUCH AS EQUIPMENT, FURNITURE, FIXTURES AND BUILDING COMPONENTS, ETC. THAT ARE NOT NOTED ON THE DRAWINGS TO BE REMOVED OR RELOCATED SHOULD REMAIN AS IS.
- P. RE-USE EXISTING CHAIRS FROM THE DEMO TO FINAL PHASE.

ABBREVIATIONS & ACRONYMS

ADA	AMERICANS WITH DISABILITIES ACT	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	OEM	ORIGINAL EQUIPMENT MANUFACTURER
AHJ	AUTHORITY HAVING JURISDICTION	OPNG	OPENING
AIT	ADVANCED IMAGING TECHNOLOGY	OPS	OPERATORS
ARCH	ARCHITECTURAL	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
AT	ADVANCED TECHNOLOGY X-RAY	PAX	PASSENGERS
AUTO	AUTOMATIC	POC	POINT OF CONTACT
AVS	ALTERNATE VIEWING STATION	PVS	PRIMARY VIEWING STATION
BLDG	BUILDING	PWD	PASSENGERS WITH DISABILITIES
BLS	BOTTLE LIQUID SCANNER	REF	REFERENCE
BOS	BOTTOM OF STEEL	RE:	REFER TO
CAT	CREDENTIAL AUTHENTICATION TECHNOLOGY	REMAG	REQUIREMENTS MANAGEMENT ADVISORY GROUP
CCTV	CLOSED CIRCUIT TELEVISION	REQD	REQUIRED
CKPT	CHECKPOINT	ROW	REMOTE OPERATOR WORKSTATION
CL	CENTERLINE	SF	SQUARE FEET
CLR	CLEAR	SO	SCANNING OPERATOR
CONC	CONCRETE	SOW	SCOPE OF WORK
CONT	CONTINUOUS	SS	STAINLESS STEEL
CT	COMPUTED TOMOGRAPHY	SSCP	SECURITY SCREENING CHECKPOINT
EDS	EXPLOSIVE DETECTION SYSTEM	STSO	SUPERVISORY TRANSPORTATION SECURITY OFFICER
EQUIP	EQUIPMENT	TDC	TRAVEL DOCUMENT CHECKER
ETD	EXPLOSIVE TRACE DETECTION	TEMP	TEMPORARY
ETP	EXPLOSIVE TRACE PORTAL	TERM	TERMINAL
EXT	EXTENSION	TOS	TOP OF STEEL
EXIST	EXISTING	TRX	THREAT IMAGE PROJECTION
FDRS	FIELD DATA RECORDING SYSTEM	TSO	READY X-RAY
FIN FLR	FINISH FLOOR	TSA HQ	TRANSPORTATION SECURITY OFFICER
FIS	FEDERAL INSPECTION SYSTEM	UON	TSA HEADQUARTERS
FSD	TSA FEDERAL SECURITY DIRECTOR	VIF	VERIFY IN FIELD
GC	GENERAL CONTRACTOR	WTMD	WALK THROUGH METAL DETECTOR
HQ	HEADQUARTERS		
INTL	INTERNATIONAL		
LEO	LAW ENFORCEMENT OFFICER		
LVL	LEVEL		
MAINT	MAINTENANCE		
NDS	NETWORK DISPLAY STAND		



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0 05/10/22 ISSUE FOR CONSTRUCTION

MARK DATE DESCRIPTION

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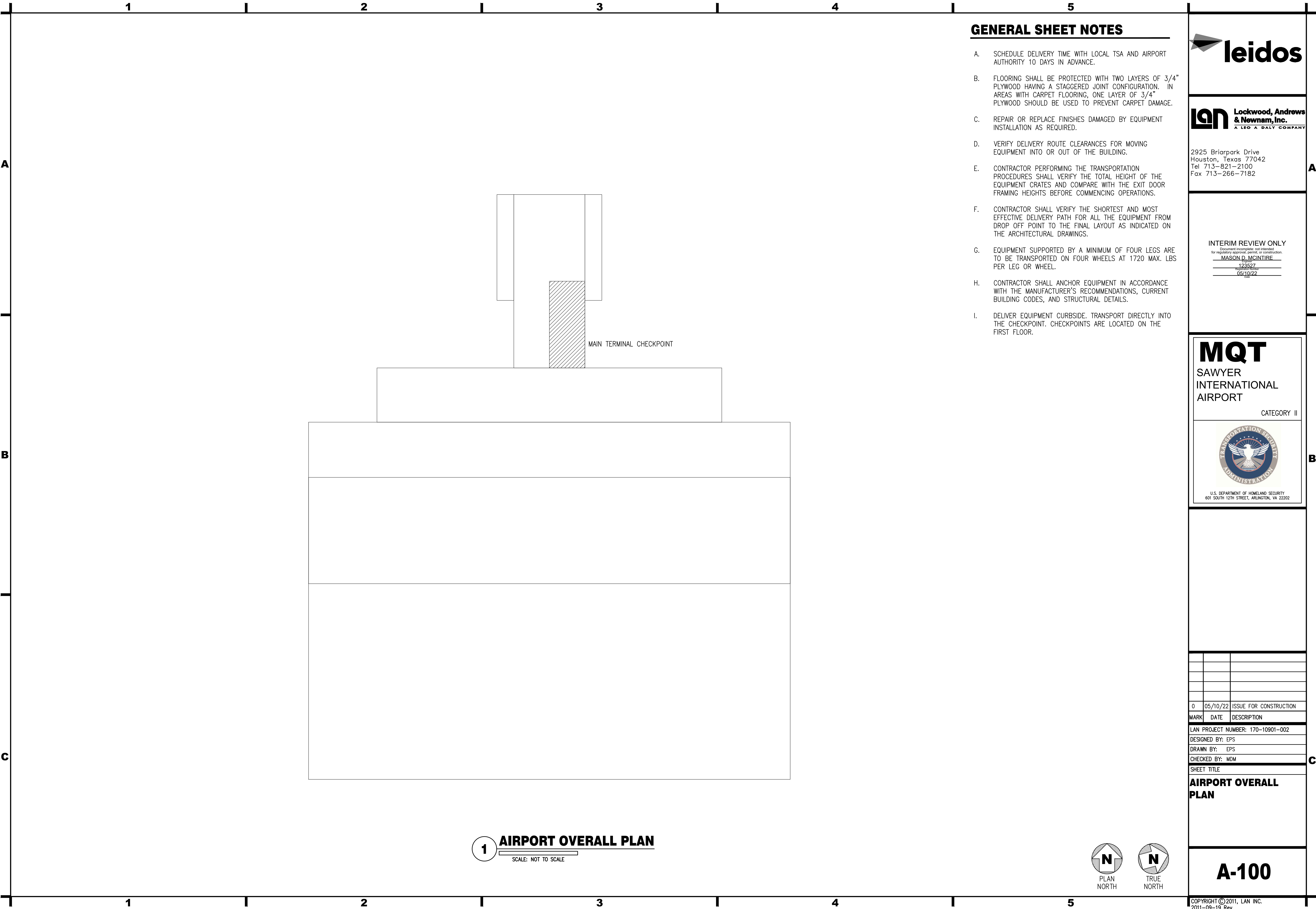
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SHEET TITLE

**CT EQUIPMENT
ABBREVIATIONS,
SYMBOLS, AND
GENERAL NOTES**

A-002



GENERAL SHEET NOTES

- A. SCHEDULE DELIVERY TIME WITH LOCAL TSA AND AIRPORT AUTHORITY 10 DAYS IN ADVANCE.
- B. FLOORING SHALL BE PROTECTED WITH TWO LAYERS OF 3/4" PLYWOOD HAVING A STAGGERED JOINT CONFIGURATION. IN AREAS WITH CARPET FLOORING, ONE LAYER OF 3/4" PLYWOOD SHOULD BE USED TO PREVENT CARPET DAMAGE.
- C. REPAIR OR REPLACE FINISHES DAMAGED BY EQUIPMENT INSTALLATION AS REQUIRED.
- D. VERIFY DELIVERY ROUTE CLEARANCES FOR MOVING EQUIPMENT INTO OR OUT OF THE BUILDING.
- E. CONTRACTOR PERFORMING THE TRANSPORTATION PROCEDURES SHALL VERIFY THE TOTAL HEIGHT OF THE EQUIPMENT CRATES AND COMPARE WITH THE EXIT DOOR FRAMING HEIGHTS BEFORE COMMENCING OPERATIONS.
- F. CONTRACTOR SHALL VERIFY THE SHORTEST AND MOST EFFECTIVE DELIVERY PATH FOR ALL THE EQUIPMENT FROM DROP OFF POINT TO THE FINAL LAYOUT AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- G. EQUIPMENT SUPPORTED BY A MINIMUM OF FOUR LEGS ARE TO BE TRANSPORTED ON FOUR WHEELS AT 1720 MAX. LBS PER LEG OR WHEEL.
- H. CONTRACTOR SHALL ANCHOR EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, CURRENT BUILDING CODES, AND STRUCTURAL DETAILS.
- I. DELIVER EQUIPMENT CURBSIDE. TRANSPORT DIRECTLY INTO THE CHECKPOINT. CHECKPOINTS ARE LOCATED ON THE FIRST FLOOR.



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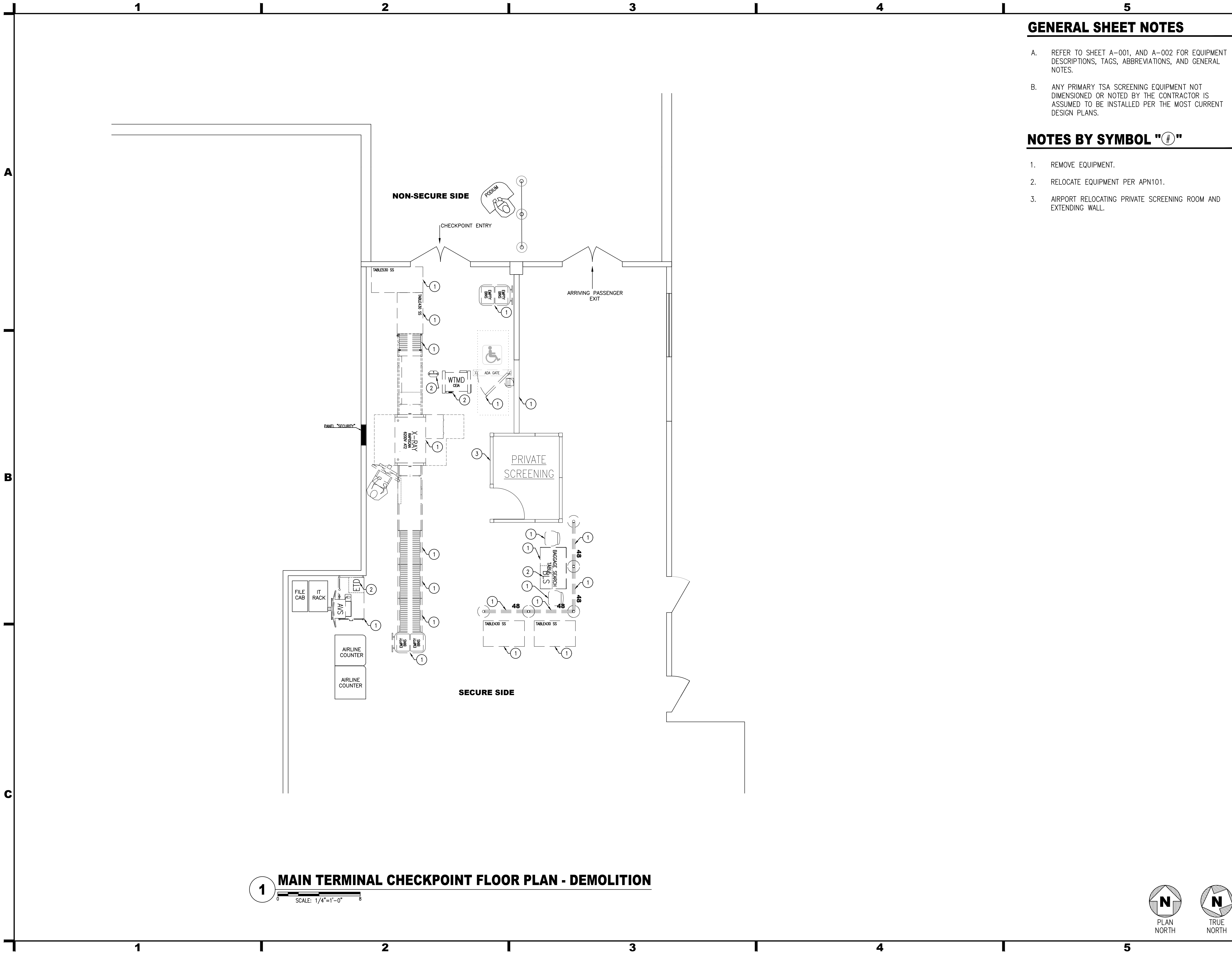
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SHEET TITLE		

AIRPORT OVERALL
PLAN

A-100



GENERAL SHEET NOTES

- A. REFER TO SHEET A--001, AND A--002 FOR EQUIPMENT DESCRIPTIONS, TAGS, ABBREVIATIONS, AND GENERAL NOTES.
- B. ANY PRIMARY TSA SCREENING EQUIPMENT NOT DIMENSIONED OR NOTED BY THE CONTRACTOR IS ASSUMED TO BE INSTALLED PER THE MOST CURRENT DESIGN PLANS.

NOTES BY SYMBOL "#"

1. REMOVE EQUIPMENT.
2. RELOCATE EQUIPMENT PER APN101.
3. AIRPORT RELOCATING PRIVATE SCREENING ROOM AND EXTENDING WALL.



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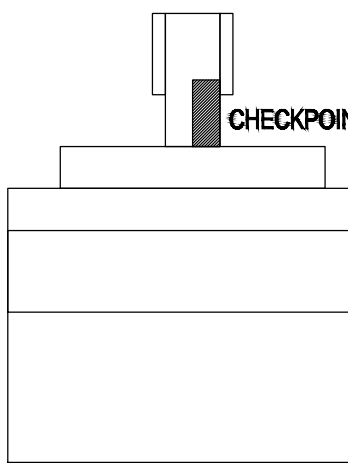
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KEY PLAN

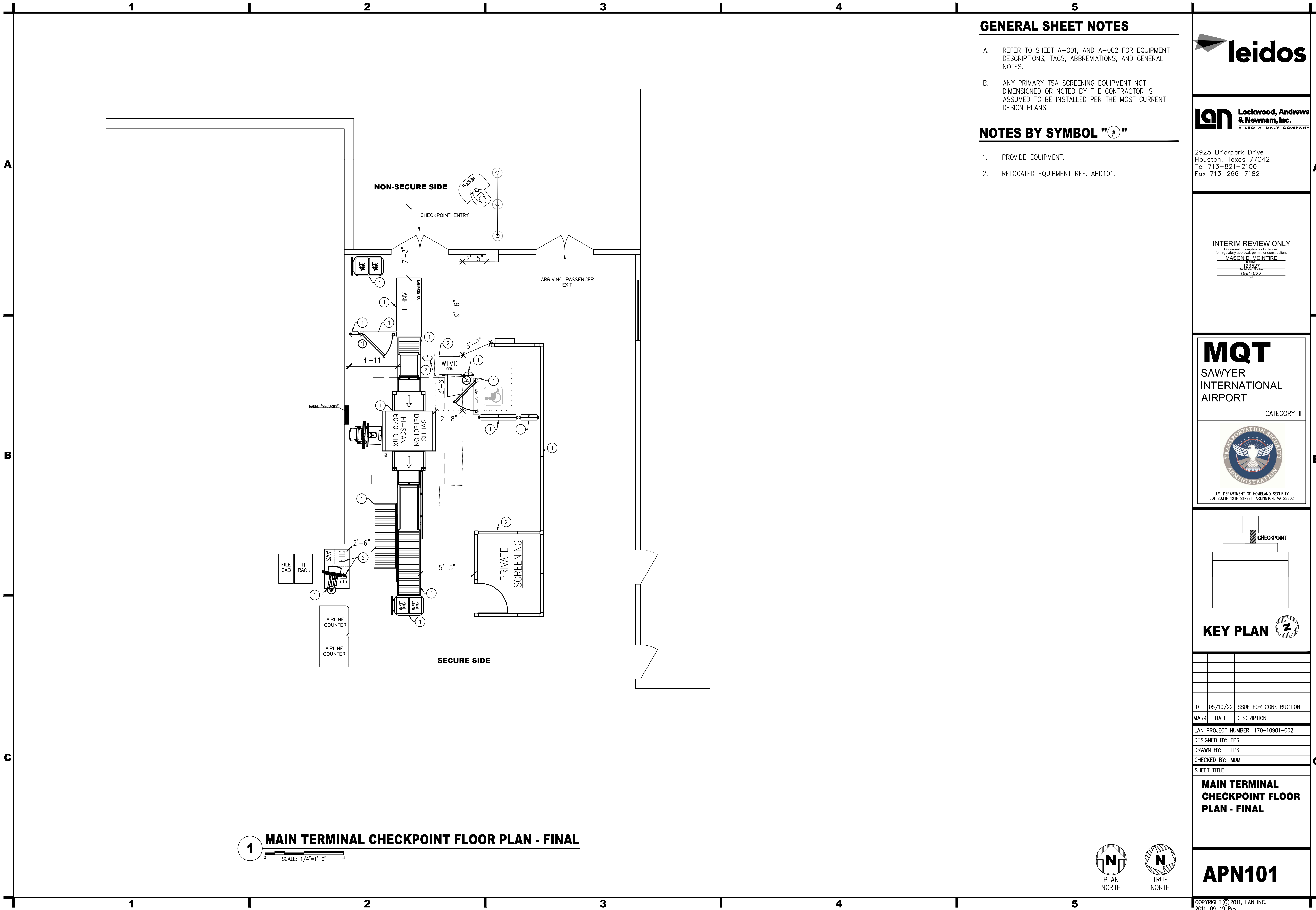
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SHEET TITLE
**MAIN TERMINAL
CHECKPOINT FLOOR
PLAN - DEMOLITION**

APD101

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GENERAL SHEET NOTES

- A. REFER TO SHEET A-001, AND A-002 FOR EQUIPMENT DESCRIPTIONS, TAGS, ABBREVIATIONS, AND GENERAL NOTES.
- B. ANY PRIMARY TSA SCREENING EQUIPMENT NOT DIMENSIONED OR NOTED BY THE CONTRACTOR IS ASSUMED TO BE INSTALLED PER THE MOST CURRENT DESIGN PLANS.

NOTES BY SYMBOL "#"

1. PROVIDE EQUIPMENT.
2. RELOCATED EQUIPMENT REF. APD101.



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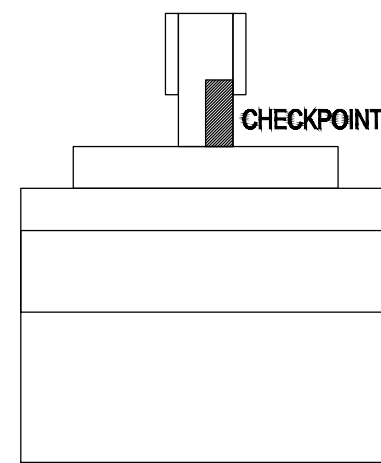
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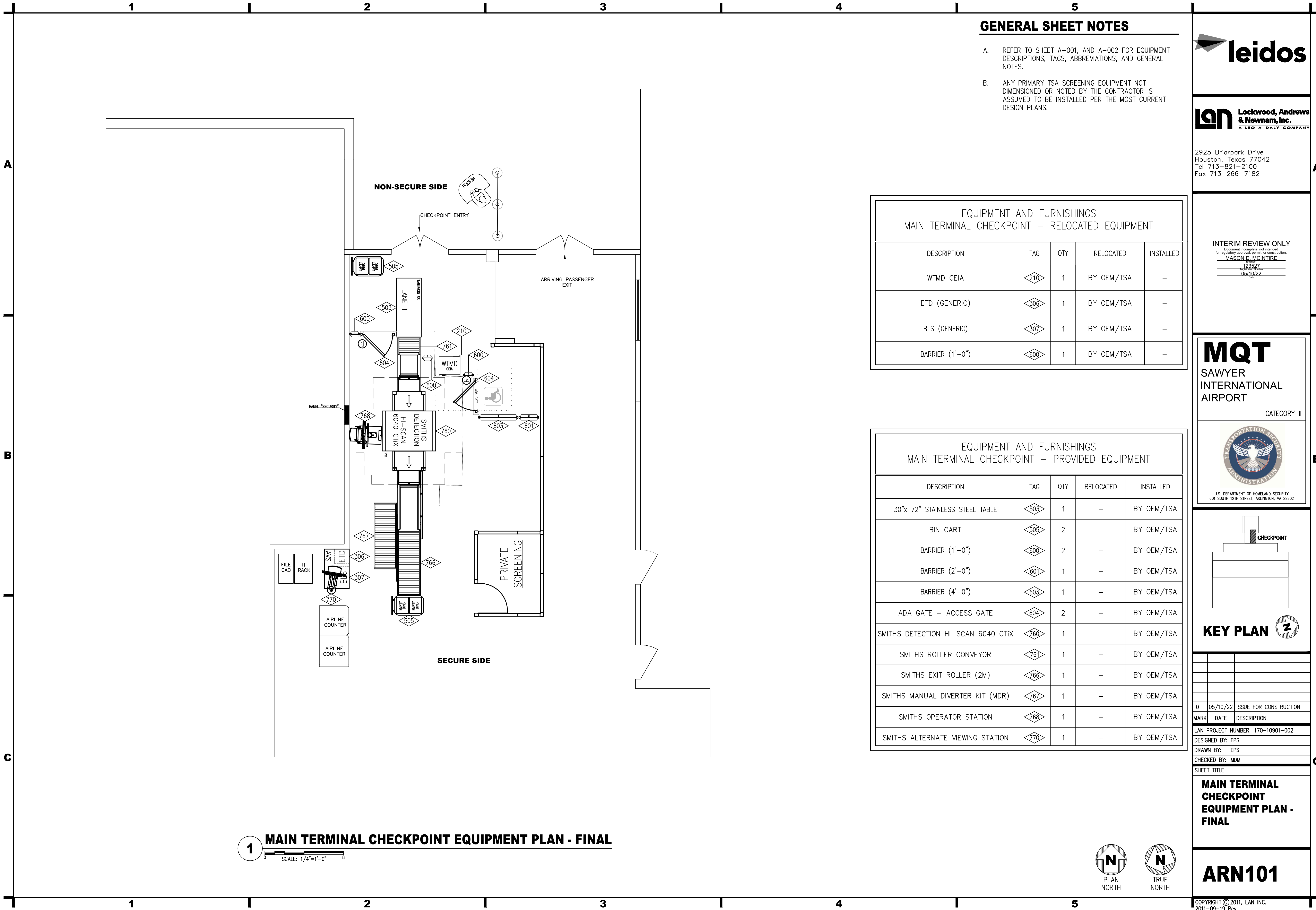
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SHEET TITLE
**MAIN TERMINAL
CHECKPOINT FLOOR
PLAN - FINAL**

APN101



GENERAL SHEET NOTES

- A. REFER TO SHEET A-001, AND A-002 FOR EQUIPMENT DESCRIPTIONS, TAGS, ABBREVIATIONS, AND GENERAL NOTES.
- B. ANY PRIMARY TSA SCREENING EQUIPMENT NOT DIMENSIONED OR NOTED BY THE CONTRACTOR IS ASSUMED TO BE INSTALLED PER THE MOST CURRENT DESIGN PLANS.

EQUIPMENT AND FURNISHINGS MAIN TERMINAL CHECKPOINT – RELOCATED EQUIPMENT				
DESCRIPTION	TAG	QTY	RELOCATED	INSTALLED
WTMD CEIA	<210	1	BY OEM/TSA	–
ETD (GENERIC)	<306	1	BY OEM/TSA	–
BLS (GENERIC)	<307	1	BY OEM/TSA	–
BARRIER (1'-0")	<600	1	BY OEM/TSA	–

EQUIPMENT AND FURNISHINGS MAIN TERMINAL CHECKPOINT – PROVIDED EQUIPMENT				
DESCRIPTION	TAG	QTY	RELOCATED	INSTALLED
30"x 72" STAINLESS STEEL TABLE	<503	1	–	BY OEM/TSA
BIN CART	<505	2	–	BY OEM/TSA
BARRIER (1'-0")	<600	2	–	BY OEM/TSA
BARRIER (2'-0")	<601	1	–	BY OEM/TSA
BARRIER (4'-0")	<603	1	–	BY OEM/TSA
ADA GATE – ACCESS GATE	<604	2	–	BY OEM/TSA
SMITHS DETECTION HI-SCAN 6040 CTIX	<760	1	–	BY OEM/TSA
SMITHS ROLLER CONVEYOR	<761	1	–	BY OEM/TSA
SMITHS EXIT ROLLER (2M)	<766	1	–	BY OEM/TSA
SMITHS MANUAL DIVERter KIT (MDR)	<767	1	–	BY OEM/TSA
SMITHS OPERATOR STATION	<768	1	–	BY OEM/TSA
SMITHS ALTERNATE VIEWING STATION	<770	1	–	BY OEM/TSA



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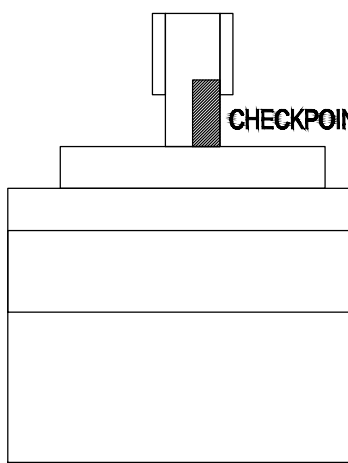
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SHEET TITLE

**MAIN TERMINAL
CHECKPOINT
EQUIPMENT PLAN -
FINAL**

ARN101

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GENERAL SHEET NOTES

- A. COORDINATE DEVICE LOCATIONS WITH EQUIPMENT LOCATIONS AS INDICATED ON THE ARCHITECTURAL PLANS. COORDINATE LOCATION AND CLEARANCE REQUIREMENTS WITH MANUFACTURER, LOCAL TSA, AND AIRPORT PERSONNEL. MAINTAIN A 2" MINIMUM CLEARANCE FROM WALLS, TABLE LEGS, EQUIPMENT ENCLOSURES, SECURITY GATES, ETC AND ANY OTHER OBSTRUCTION THAT WOULD LIMIT DISCONNECTING MEANS ACCESS REQUIRED BY CODE TO THE RECEPTACLES AND OUTLETS. LOCATE RECEPTACLES AND OUTLETS TO ENSURE THAT THEY ARE CLEAR OF PATHWAYS FOR PASSENGER AND TSA PERSONNEL.
- B. DISTANCE FROM RECEPTACLE TO WTMD SHALL NOT EXCEED MAXIMUM CORD LENGTH OF 6'-0". PROVIDE THE WTMD RECEPTACLE UNDER THE OUTFEED CONVEYOR OR IN THE POWER POLE OF THE X-RAY UNIT. WHERE THIS LOCATION WOULD EXCEED THE WTMD CORD LENGTH, PROVIDE THE WTMD RECEPTACLE UNDER THE INFEED CONVEYOR OF THE AT X-RAY UNIT. IF NEITHER LOCATION IS AVAILABLE PROVIDE THE WTMD RECEPTACLE AS INDICATED IN DETAIL 6, THIS SHEET. FIELD VERIFY PLUG TYPE OF THE WTMD AND PROVIDE MATCHING RECEPTACLE TYPE. ALIGN WTMD ELECTRICAL CONNECTION TOWARDS RECEPTACLE. ALL RECEPTACLE OUTLETS SHALL BE PLACED AS TO PROVIDE ACCESS TO DISCONNECTING MEANS AND PREVENT USE OF WIRE MOLD.
- C. ALIGN INDIVIDUAL SURFACE MOUNTED RECEPTACLES LOCATED UNDER THE X-RAY UNIT ROLLERS/CONVEYORS ALONG A LINE PARALLEL WITH THE CENTERLINE OF THE X-RAY UNIT.
- D. ALIGN INDIVIDUAL SURFACE MOUNTED RECEPTACLES LOCATED UNDER THE ETD TABLE ALONG A LINE PARALLEL WITH THE LONG DIMENSION (BACK) OF THE ETD TABLE.
- E. PROVIDE THE AIT RECEPTACLE UNDER THE INFEED, OR OUTFEED CONVEYOR OF THE AT X-RAY UNIT AS INDICATED ON THE NEW WORK PLANS. IF NEITHER LOCATION IS AVAILABLE PROVIDE THE AIT RECEPTACLE AS INDICATED IN DETAIL 2A OR 2B, THIS SHEET.

NOTES BY SYMBOL "O"

1. PREFERRED LOCATION OF SURFACE OR FLUSH DEVICE.
2. ACCEPTABLE LOCATION OF SURFACE OR FLUSH DEVICE WITHIN HATCHED AREA.
3. ACCEPTABLE ALTERNATE LOCATION OF SURFACE OR FLUSH DEVICE SERVING WTMD IF PREFERRED LOCATION EXCEEDS 13'-0" CORD LENGTH.
4. PREFERRED LOCATION OF POWER POLE. COORDINATE POWER POLE LOCATION WITH ANY INTERFERING CEILING EQUIPMENT SUCH AS LIGHT FIXTURES, DIFFUSERS, GRILLES, SPRINKLER HEADS, ETC.
5. FOR EACH ETD/BLS/AVS RECEPTACLE, PROVIDE A UL LISTED POWER STRIP EQUAL TO APC MODEL P6H. MOUNT POWER STRIP TO THE ETD TABLE USING SCREWS THROUGH THE OFFSET MOUNTING HOLES ON THE REAR OF THE POWER STRIP.
6. LOCATION OF RECEPTACLE OUTSIDE PRIVATE SCREENING ROOM TO BE FIELD VERIFIED WITH TSA AND AIRPORT AUTHORITY.
7. LOCATION OF RECEPTACLE WHEN MULTIPLE AIT WORKSTATIONS ARE BEING INSTALLED.
8. INSTALL POKE THRU DEVICES IN ACCORDANCE WITH DETAIL 2, SHEET E-003.
9. HATCHED AREA INDICATES WHERE NO DEVICE MAY BE LOCATED.
10. PREFERRED LOCATION OF POWER POLE. COORDINATE POWER POLE LOCATION WITH ANY INTERFERING CEILING EQUIPMENT SUCH AS LIGHT FIXTURES, DIFFUSERS, GRILLES, SPRINKLER HEADS, ETC. MUST BE LOCATED AT LEAST 4" AWAY FROM THE CT. POWER POLE LOCATIONS NOT LISTED AS PREFERRED OR ALTERNATE ARE NOT ACCEPTABLE.
11. ALTERNATE LOCATION OF POWER POLE. COORDINATE POWER POLE LOCATION WITH ANY INTERFERING CEILING EQUIPMENT SUCH AS LIGHT FIXTURES, DIFFUSERS, GRILLES, SPRINKLER HEADS, ETC. MUST BE LOCATED AT LEAST 4" AWAY FROM THE CT. POWER POLE LOCATIONS NOT LISTED AS PREFERRED OR ALTERNATE ARE NOT ACCEPTABLE.



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CATEGORY II



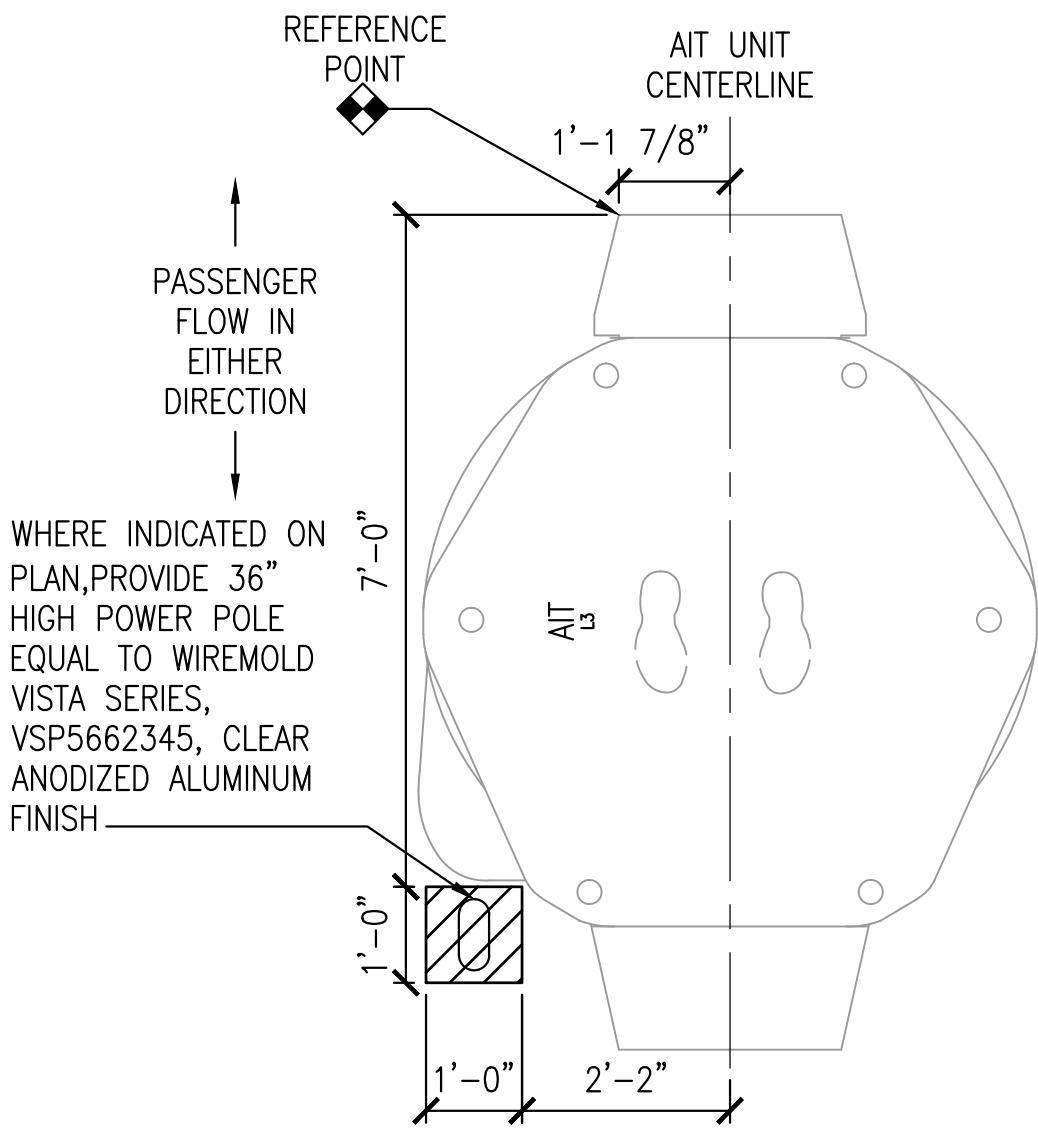
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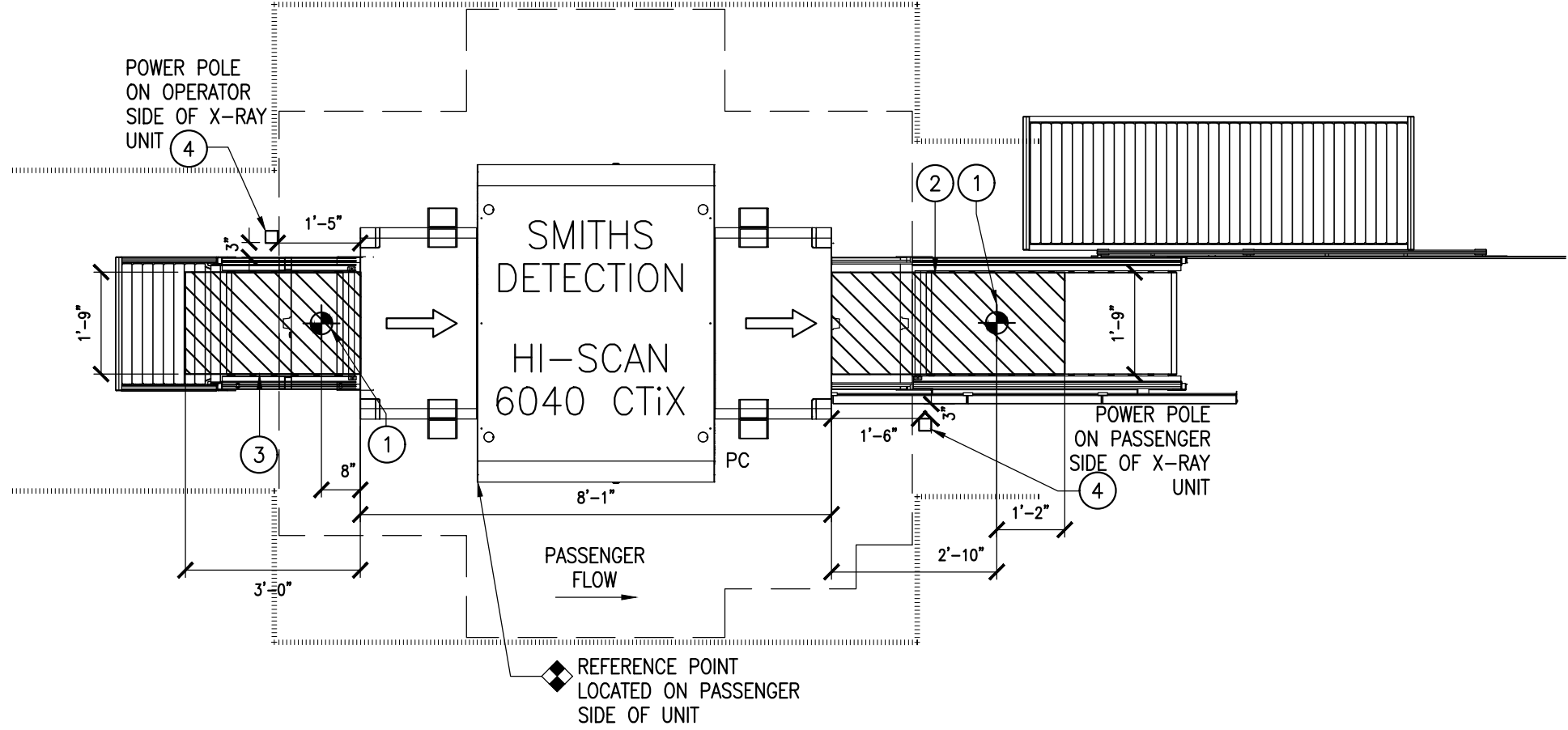
ELECTRICAL DETAILS

E-002

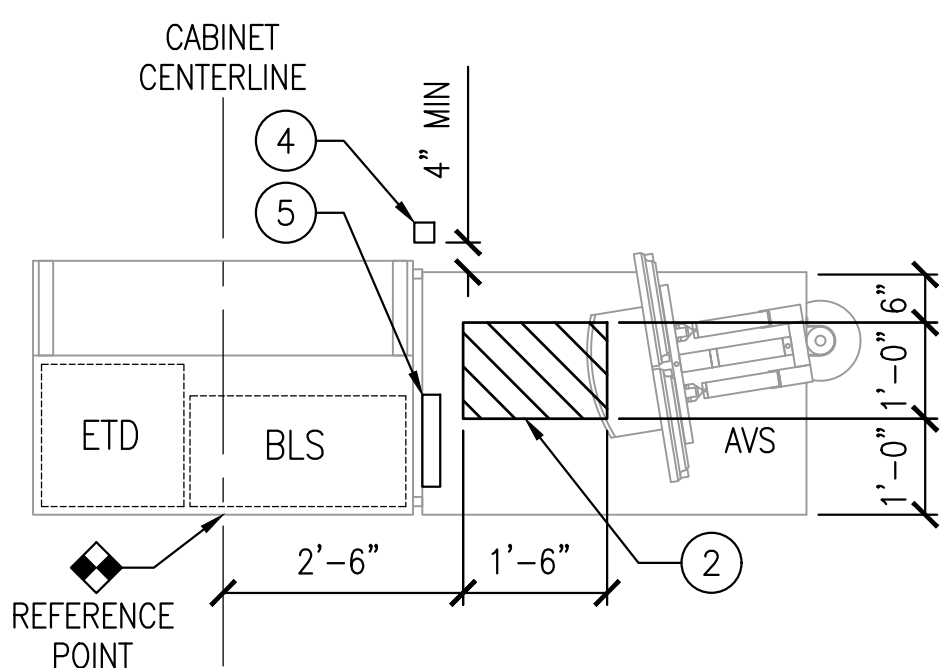
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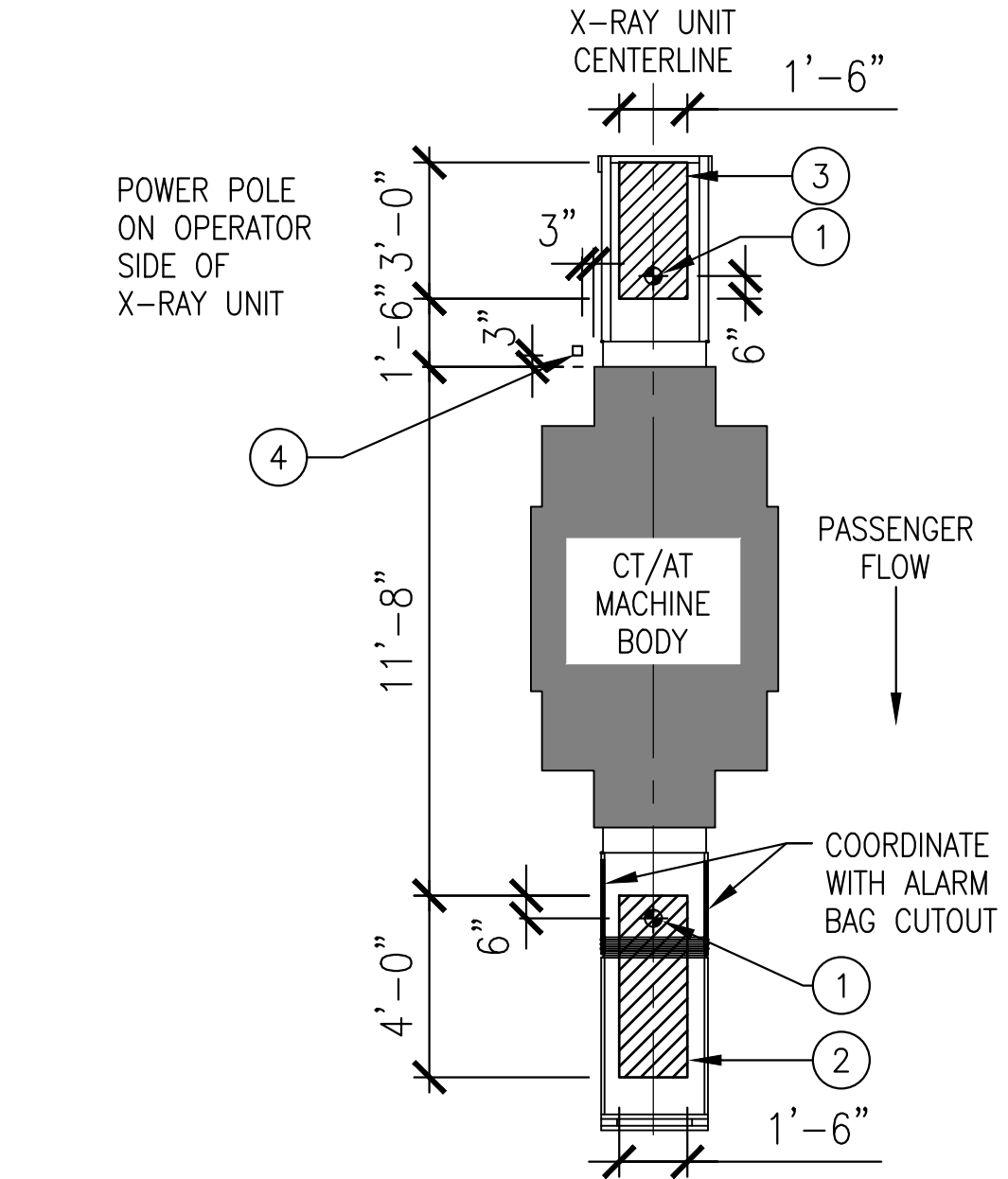
2 L3 AIT UNIT - ELECTRICAL
SCALE: 1/2"=1'-0"



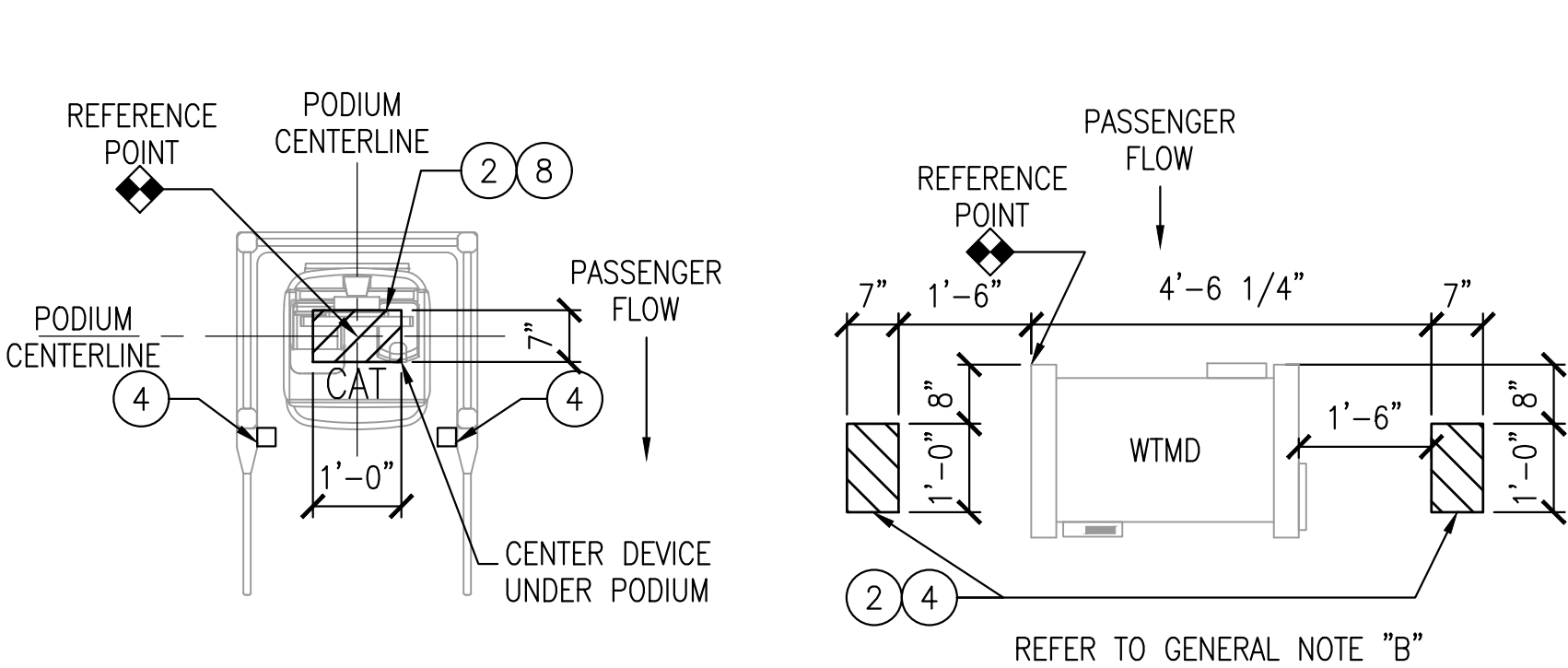
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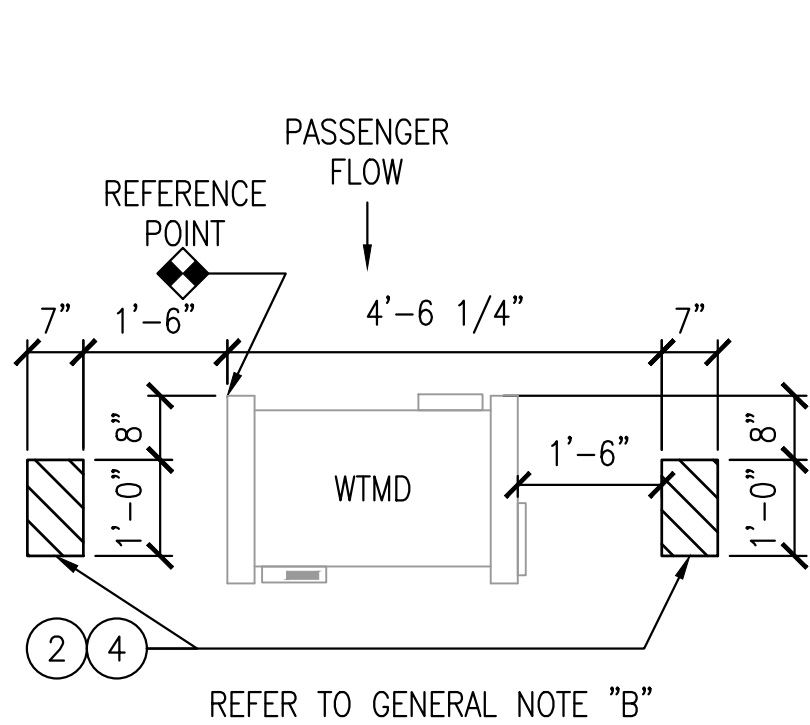
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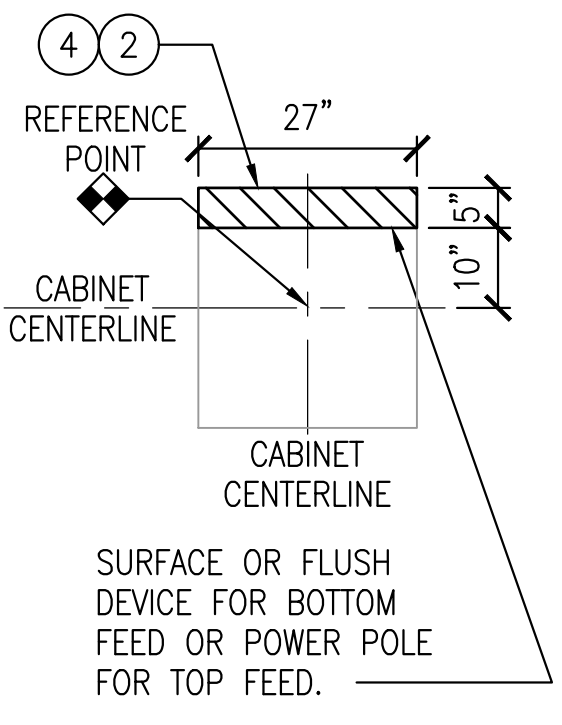
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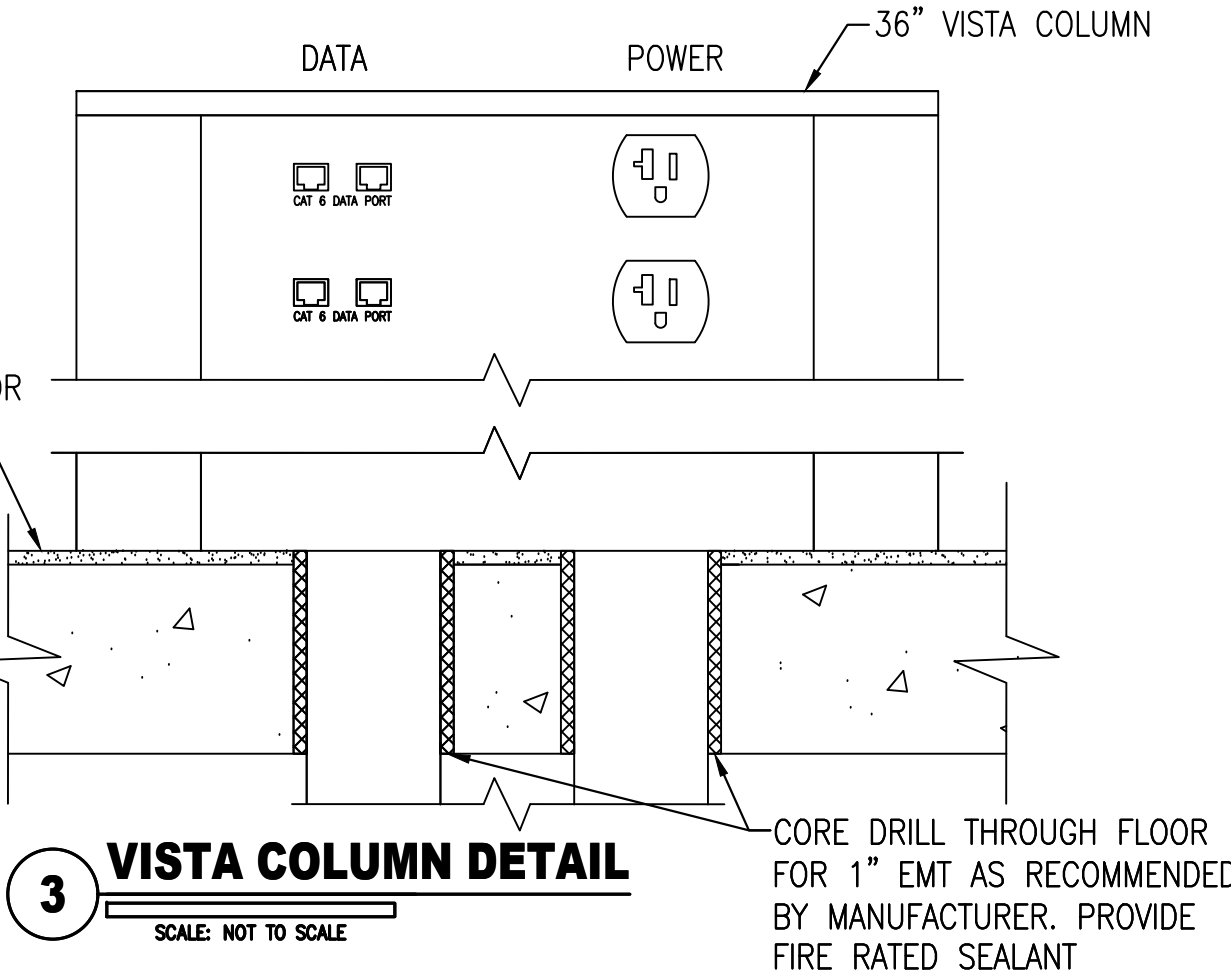
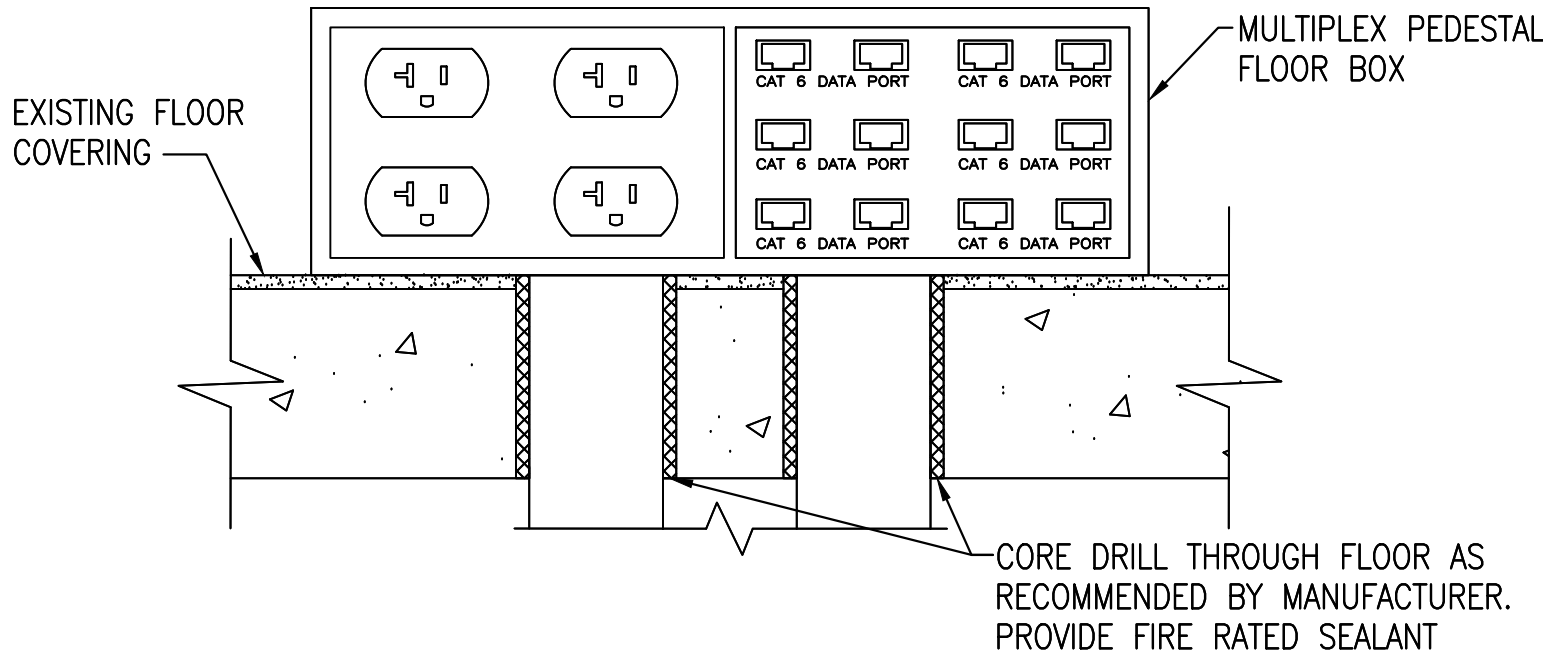
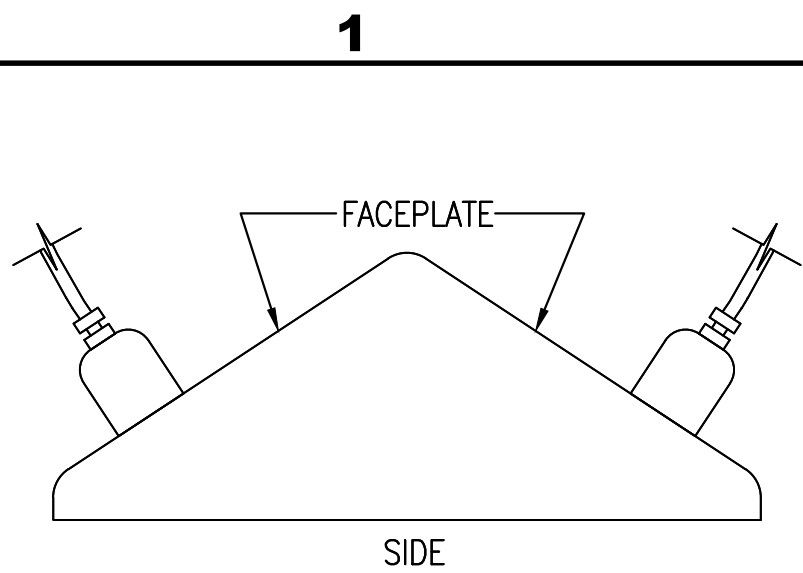
5 CAT/STSO - ELECTRICAL
SCALE: 1/2"=1'-0"



6 WTMD - ELECTRICAL
SCALE: 1/2"=1'-0"



7 IT/SERVER CABINET - ELECTRICAL
SCALE: 1/2"=1'-0"



POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC [CAT/E GATE/BAT]	1	PROVIDE 20A DUPLEX RECEPTACLE, 2 LOCATIONS PER LANE
WTMD	10	WTMD OEM POWER REQUIREMENTS VARY. PROVIDE L5-15R OR SIMPLEX RECEPTACLE, FIELD VERIFY
AT X-RAY-CT 1/ADR	1	PROVIDE 20A DUPLEX RECEPTACLE
CT 2/PVS	1	PROVIDE 20A DUPLEX RECEPTACLE
QUEUEING CONVEYOR/DIVERTER/OTHER SYSTEM COMPONENTS	2	PROVIDE 20A DUPLEX RECEPTACLE, MAY BE SHARED WITH CO-LOCATED ETD OUTLET WITHIN THE SAME MODULE SET
AIT	1	PROVIDE 20A SIMPLEX RECEPTACLE
CT SCANNER	1	PROVIDE 120V, 30A/1P CIRCUIT. PROVIDE L5-30R RECEPTACLE.
AVS/ETD/BLS	1	PROVIDE 20A DUPLEX RECEPTACLE
CO-LOCATED ETD	2	PROVIDE 20A DUPLEX RECEPTACLE, MAY BE SHARED WITH CO-LOCATED ETD OUTLET WITHIN THE SAME LANE
PRIVATE SCREENING ROOM	1	PROVIDE 20A DUPLEX RECEPTACLE INSIDE OF PRIVATE SCREENING ROOM
STSO PODIUM	2	PROVIDE 20A DUPLEX OUTLET
IT CABINET	1	PROVIDE 30A L5-30R OR L6-30R RECEPTACLE, FIELD VERIFY
DURESS ALARM RECEIVER PANEL	2	CIRCUITS SHARED CAN BE MORE THAN TWO THROUGHOUT CHECKPOINT BUT ONLY CAN INSTALL TWO REPEATERS PER DUPLEX
DURESS ALARM REPEATER PANEL	2	CIRCUITS SHARED CAN BE MORE THAN TWO THROUGHOUT CHECKPOINT BUT ONLY CAN INSTALL TWO PER DUPLEX

GENERAL SHEET NOTES

- A. THERE ARE FOUR (4) TYPES OF TSA APPROVED METHODS FOR ELECTRICAL DISTRIBUTION TO SSCP EQUIPMENT. THESE ARE LISTED BELOW. PROVIDE POWER AND DATA CONNECTIONS TO TSA EQUIPMENT AS INDICATED ON THE FLOOR PLANS. SHOULD THE DEVICE TYPE INDICATED ON THE FLOOR PLANS BE UNDESIRABLE BASED ON SITE CONDITIONS, PROVIDE ALTERNATE DEVICES AS DIRECTED BY TSA:
- RECESSED POWER/DATA POKE THRU DEVICES FOR THE FLOOR AND NON-SURFACE MOUNTED DEVICES FOR THE WALL.
 - FLUSH POWER/DATA POKE THRU DEVICES FOR THE FLOOR AND NON-SURFACE MOUNTED DEVICES FOR THE WALL.
 - SURFACE MOUNTED PEDESTALS/MONUMENTS FOR THE FLOOR AND WALL (TOMBSTONE).
 - POWER/DATA POLES.
- B. NOTE THAT THE POWER AND DATA OUTLET CONFIGURATIONS INDICATED ON THIS SHEET ARE FOR RECESSED POKE-THRU AND SURFACE MOUNTED PEDESTAL INSTALLATIONS, BUT ALSO APPLY TO FLOOR BOXES, POWER POLES, AND WALL MOUNTED OUTLETS AS INDICATED ON THE FLOOR PLANS.
- C. RECESSED POKE-THRU DEVICES SHOWN ON THESE DETAILS ARE BASED ON WIREMOLD EVOLUTION SERIES MODEL 6AT.
- D. SURFACE MOUNTED PEDESTAL DEVICES SHOWN ON THESE DETAILS ARE BASED ON HUBBELL PEDESTAL SERIES FR680 AND FR480.
- E. VERIFY OUTLET DEVICE TYPE FOR DEDICATED CIRCUITS WITH OEM TYP.
- F. SMITHS SERVER DATA LINE SHALL RUN FROM 'CONFIGURATION B' TO 'CONFIGURATION C' FOR THE CT SERVER.



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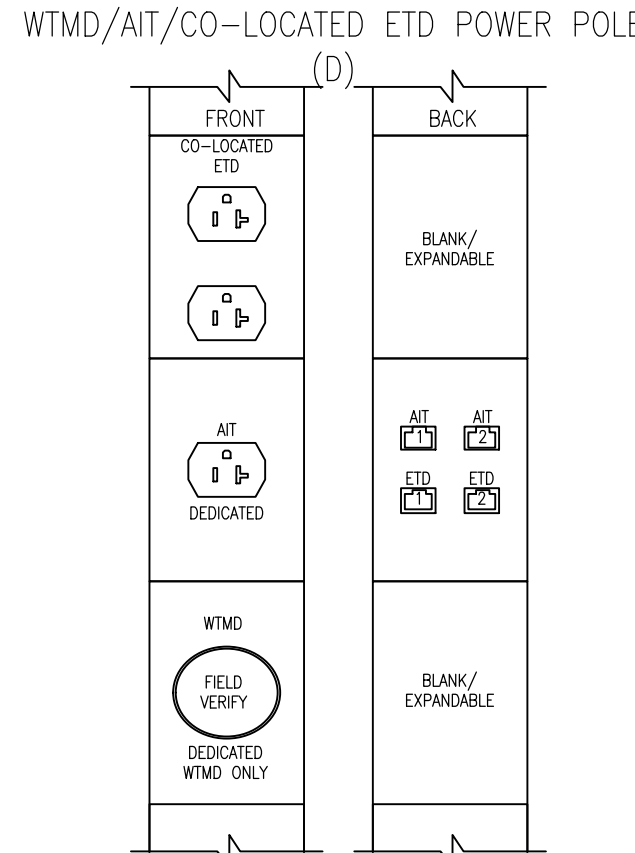
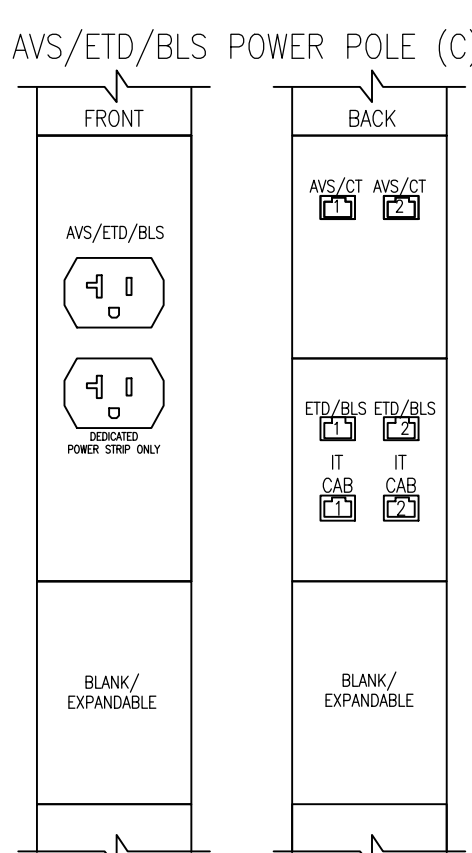
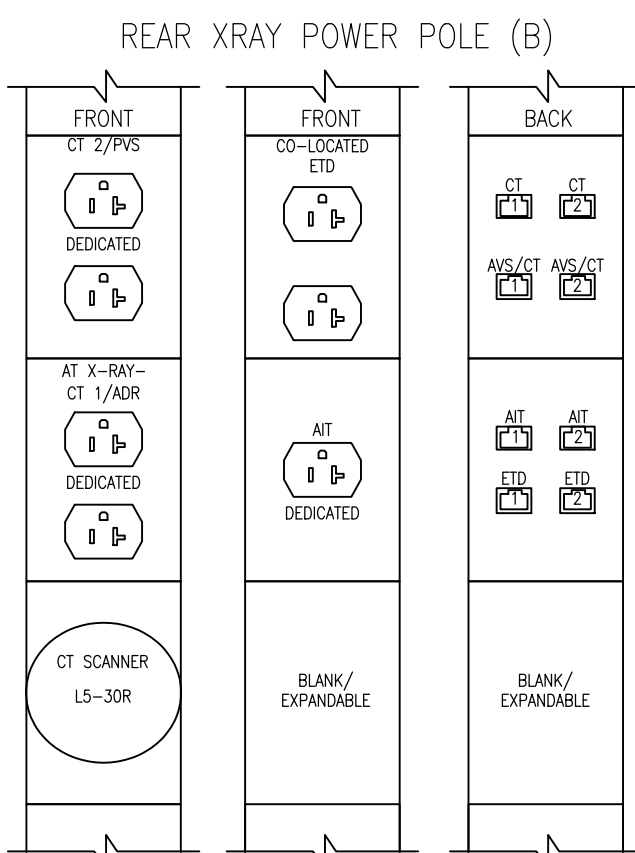
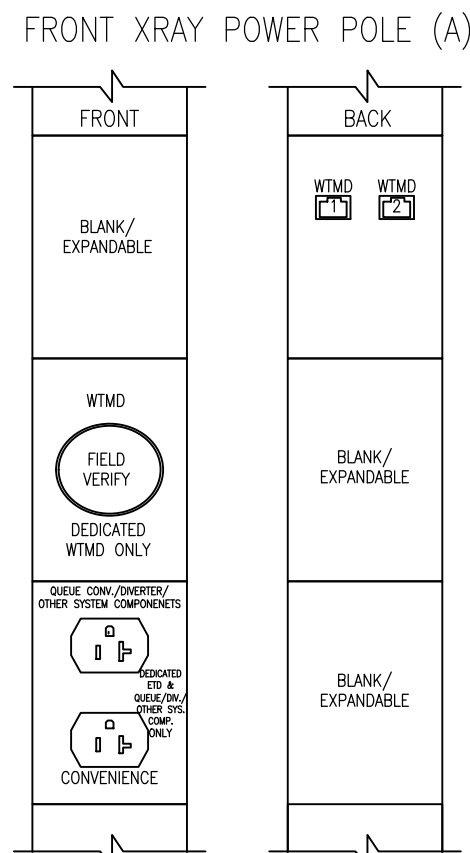
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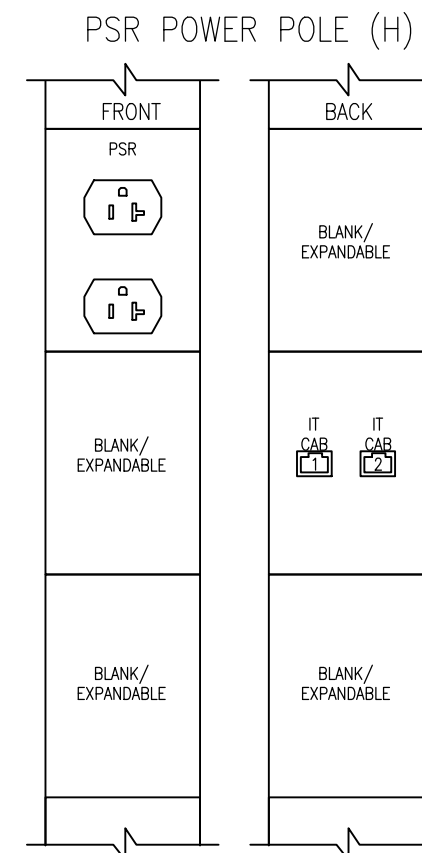
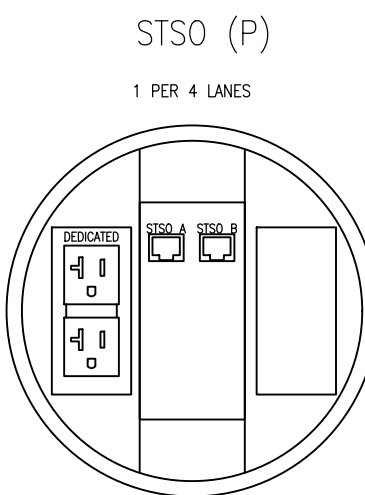
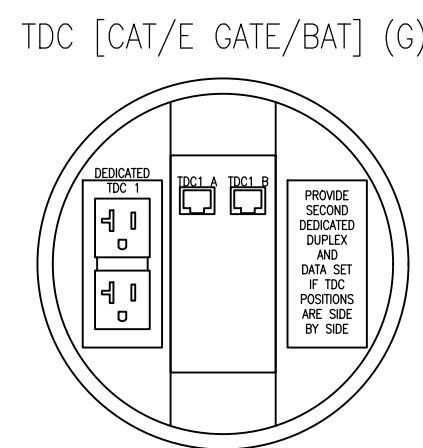
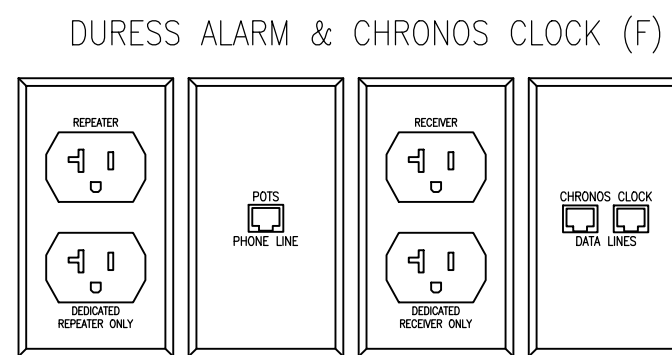
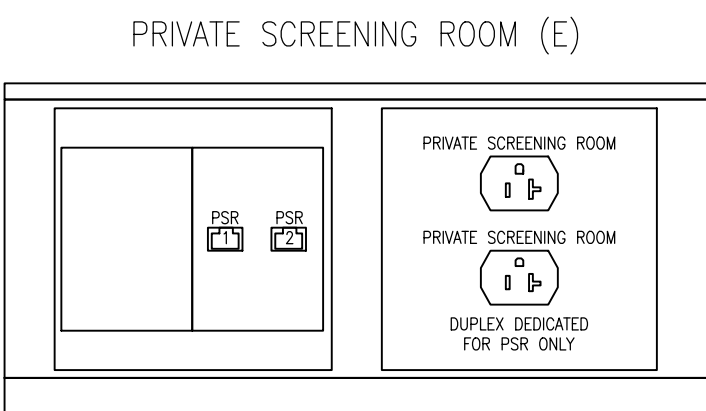


4 FRONT XRAY CONFIGURATION "A"
SCALE: NOT TO SCALE

5 REAR XRAY CONFIGURATION "B"
SCALE: NOT TO SCALE

6 AVS/ETD/BLS CONFIGURATION "C"
SCALE: NOT TO SCALE

7 AIT/CO-LOCATED ETD CONFIGURATION "D"
SCALE: NOT TO SCALE



8 PRIVATE SCREENING ROOM CONFIGURATION "E"
SCALE: NOT TO SCALE

9 DURESS ALARM & CHRONOS CLOCK CONFIGURATION "F"
SCALE: NOT TO SCALE

10 TDC/CAT CONFIGURATION "G"
SCALE: NOT TO SCALE

11 STSO CONFIGURATION "P"
SCALE: NOT TO SCALE

12 PSR CONFIGURATION "H"
SCALE: NOT TO SCALE

DEVICE/NAME/SPACE	DATA CABLING REQUIREMENT
AT2 CT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT 2-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (1) PRIMARY (1) REDUNDANT, MAINTAIN LANE ASSOCIATION
CT L3	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT 2-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (1) PRIMARY (1) REDUNDANT, MAINTAIN LANE ASSOCIATION
IDSS CT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT 4-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (2) PRIMARY (2) REDUNDANT, MAINTAIN LANE ASSOCIATION
ANALOGIC CT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT 4-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (2) PRIMARY (2) REDUNDANT, MAINTAIN LANE ASSOCIATION
SMITHS CT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT 4-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (2) PRIMARY (2) REDUNDANT, MAINTAIN LANE ASSOCIATION
GILARDONI CT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT 4-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (2) PRIMARY (2) REDUNDANT, MAINTAIN LANE ASSOCIATION
RAPISCAN CT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT 4-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO AVS, (2) PRIMARY (2) REDUNDANT, MAINTAIN LANE ASSOCIATION
CT SERVER	2-CAT 6A ROUTED DIRECT, NOT THROUGH PATCH PANEL TO CT, (1) PRIMARY (1) REDUNDANT
AIT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT
WTMD	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT
ETD AND ETD @ AIT	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT
BLS	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT
TDC & CAT BPSS ETD	4-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT @ TDC, (1) PRIMARY (1) REDUNDANT @ ETD.
STSO	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT
PRIVATE SCREENING ROOM INTERIOR	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT
PANIC DURESS	VERIFY HEAD END, USE COMMON FEED AT XRAY.
PANIC DURESS RECEIVER	VERIFY LOCATION, (1) POTS LINE FOR ANALOG CONNECTION.
KRONOS	2-CAT 6A ROUTED TO TSA IT CABINET, (1) PRIMARY (1) REDUNDANT

A DATA REQUIREMENTS TABLE
SCALE: NOT TO SCALE

GENERAL NOTES

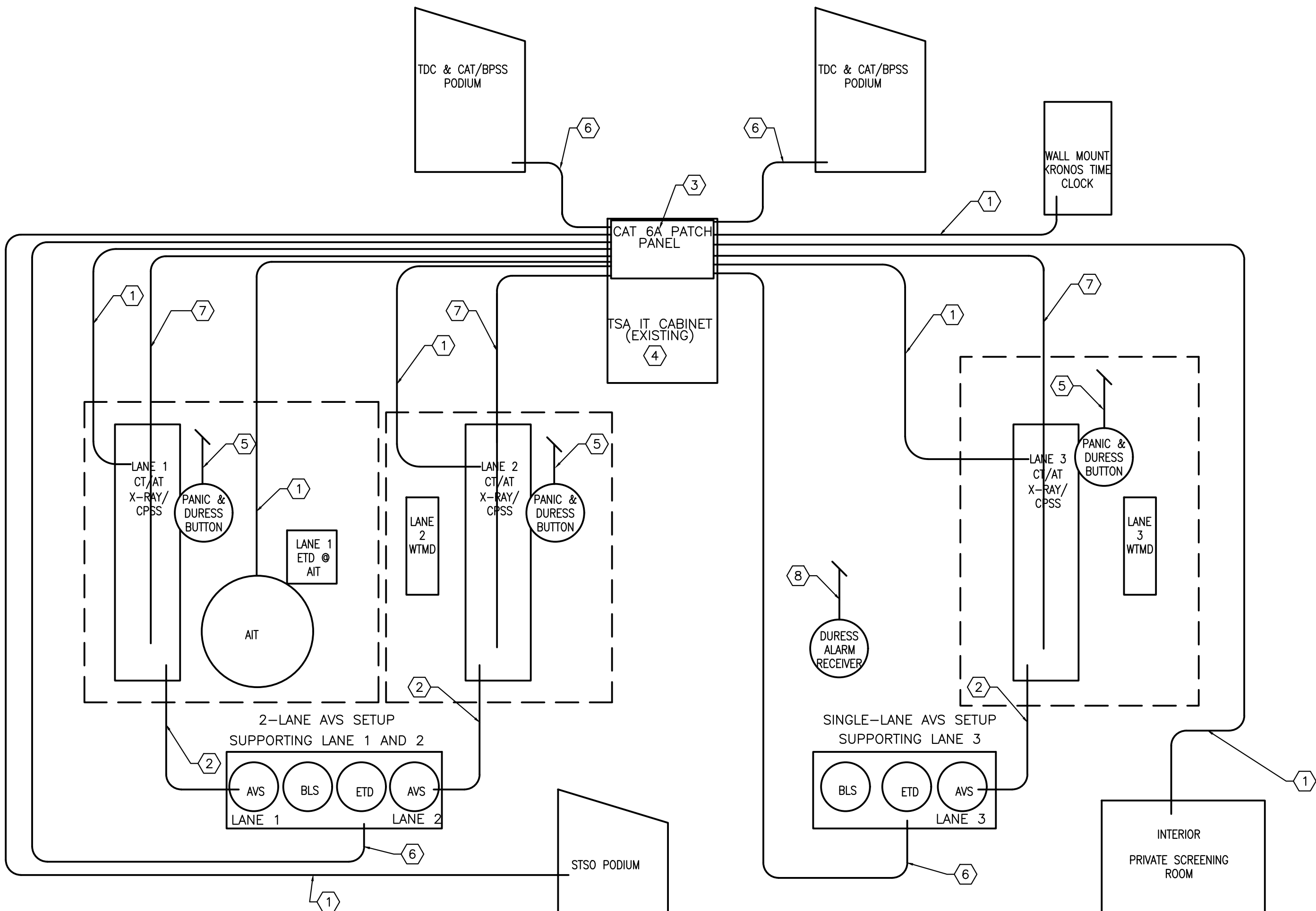
1. DIAGRAM SHOWN AS TYPICAL 3-LANE CONFIGURATION, REFERENCE DIAGRAM FOR CONNECTIVITY SCHEDULES ONLY. VERIFY EACH UNIQUE AIRPORT EQUIPMENT LAYOUT, AND EACH CORRESPONDING TSA DEVICE'S CABLING REQUIREMENTS.
2. PATCH CABLES FROM EQUIPMENT (DEVICE END) TO HORIZONTAL CONNECTION (FLOOR POKE OUTLET, POWER POLE OUTLET) PROVIDED UNDER THE INSTALLATION TECHNICIANS SCOPE OF WORK. PROVIDE CABLING AT A MINIMUM OF 12 FEET IN LENGTH TO ACCOMMODATE CONNECTIVITY.
3. PATCH CABLES FROM ALL THE OTHER EQUIPMENT (DEVICE ENDS) TO THE HORIZONTAL CONNECTION (FLOOR POKE OUTLET, POWER POLE OUTLET) PROVIDED UNDER THE INSTALLATION TECHNICIANS SCOPE OF WORK.
4. PATCH CABLES FROM ALL THE TSA IT CABINET PORTS (PATCH PANEL ENDS) TO ACTIVE SWITCH AND NETWORK EQUIPMENT PROVIDED UNDER THE INSTALLATION TECHNICIANS SCOPE OF WORK BUT INSTALLED BY TSA OR AN APPROVED TSA NETWORK VENDOR.
5. FOR AIRPORTS WITH EXISTING CAT 6A PATCH PANELS AND CABLING, PROVIDE CAT 6A RATED CABLE FOR ANY REMOVED, RELOCATED, OR NEW DATA CABLING. ANY EXISTING DATA CABLING NOT RELOCATED OR REMOVED TO REMAIN IN PLACE. PROVIDE CAT 6A DATA CABLING FOR ANY NEW TECHNOLOGY / EQUIPMENT THAT REQUIRES CAT 6A DATA COMMUNICATION.
6. PROVIDE CAT5/5e FOR ALL OTHER AIRPORTS THAT IMPLEMENT AND MAINTAIN CAT5/5e STANDARDS, AND IF IT MEETS DATA REQUIREMENTS OF THE EQUIPMENT SERVED.
7. ALL EXISTING AND NEW CABLING THAT IS INSTALLED AND IS ANTICIPATED TO BE UTILIZED FOR ACTIVE COMPONENTS SHALL BE CERTIFIED/RE-CERTIFIED USING A LEVEL IV, 600MHZ CAPABLE, FLUKE DTX CABLE ANALYZER OR EQUIVALENT. ALL TESTS SHALL BE SPECIFIC FOR THE RATING OF THE INSTALLED CABLE INFRASTRUCTURE, WHETHER CAT 5E, CAT 6 OR CAT 6A. CONTRACTOR TO CONFIRM THE CALIBRATION CERTIFICATES ARE ALSO SUBMITTED WITH THE TEST RESULTS. TESTER MUST BE CALIBRATED MEETING NIST STANDARDS, AND HAVE BEEN CALIBRATED AT LEAST ONCE IN THE PREVIOUS 12 MONTHS PRIOR TO THE CURRENT TESTS AND RESULTS. CONTRACTOR TO SUBMIT CERTIFIED TEST RESULTS IN DIGITAL AND HARDCOPY FORMAT AS NOTED WITHIN THE SPECIFICATIONS.

NOTES BY SYMBOL "⬡"

1. (2) CAT 6A UTP CABLES ROUTED FROM THE TSA IT CABINET TO EACH DEVICE AS NOTED. TERMINATE ALL CAT 6A CABLE ON THE OUTLET END WITH A MODULAR RJ-45 CAT 6A RATED 568B JACK CONTAINED IN POKE OR FACEPLATE AS NOTED ON THE DRAWINGS. CONTRACTOR TO TERMINATE TSA CABINET END TO A CAT 6A RATED MODULAR RACK MOUNTED PATCH PANEL.
2. (4) CAT 6A UTP CABLE ROUTED FROM AVS TO CT/AT AS NOTED ON THE ONE LINE DIAGRAM. TERMINATE BOTH DEVICE ENDS WITH A MODULAR RJ-45 CAT 6A RATED 568B JACK. TELECOM/ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION WITH SITE LEAD AND MANUFACTURER. (NO REDUCTION OF CABLE COUNT IS ALLOWED)
3. CONTRACTOR TO PROVIDE NEW PATCH PANELS(S) IN QUANTITY AS INDICATED ON THE DRAWINGS. PATCH PANEL SHALL HAVE A RATING OF CAT 6A.
4. EXISTING TSA IT CABINET, SHOWN FOR REFERENCE ONLY.
5. PANIC DURESS BUTTON, CONTRACTOR TO FIELD VERIFY HEAD-END LOCATION FOR TERMINATION OF ANY NEW WIRING. UTILIZE COMMUNICATIONS PATHWAY TO "CT/AT" LOCATION.
6. (2) CAT 6A UTP CABLES ROUTED FROM THE TSA IT CABINET TO EACH DEVICE AS NOTED. TERMINATE ALL CAT 6A CABLE ON THE OUTLET END WITH A MODULAR RJ-45 CAT 6A RATED 568B JACK CONTAINED IN POKE OR FACEPLATE AS NOTED ON THE DRAWINGS. CONTRACTOR TO TERMINATE TSA CABINET END TO A CAT 6A RATED MODULAR RACK MOUNTED PATCH PANEL.
7. (6) CAT 6A UTP CABLES ROUTED FROM THE TSA IT CABINET TO EACH DEVICE AS NOTED. TERMINATE ALL CAT 6A CABLE ON THE OUTLET END WITH A MODULAR RJ-45 CAT 6A RATED 568B JACK CONTAINED IN POKE OR FACEPLATE AS NOTED ON THE DRAWINGS. CONTRACTOR TO TERMINATE TSA CABINET END TO A CAT 6A RATED MODULAR RACK MOUNTED PATCH PANEL.
8. STANDARD SINGLE POTS PHONE LINE TO DURESS ALARM RECEIVER LOCATION. (LOCATIONS TBD).

"TYPICAL" 3-LANE TSA CHECKPOINT WIRING DIAGRAM WITH (1) AIT

(THIS IS A TYPICAL CONFIGURATION AND MAY NOT MATCH THE EXACT AIRPORT DESIGN REQUIREMENTS, REFERENCE FLOOR PLAN FOR EXACT EQUIPMENT REQUIREMENTS AND CONFIGURATIONS):



B TELECOM CABLING ONE-LINE DIAGRAM
SCALE: NOT TO SCALE



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LAN PROJECT NUMBER: 170-10901-002		
DESIGNED BY: EPS		
DRAWN BY: EPS		
CHECKED BY: MDW		
SHEET TITLE		

**TELECOM CABLING
ONE-LINE DIAGRAM**

E-004

	1	2	3	4	5
A	1.6 BOX INSTALLATION	B. INSULATION SYSTEM AND AVERAGE WINDING TEMPERATURE RISE FOR RATED KVA AS FOLLOWS:	A. DESCRIPTION: NEMA WD 1, HEAVY-DUTY GENERAL USE RECEPTACLE.		
	A. ELECTRICAL BOXES ARE SHOWN ON DRAWINGS IN PREFERRED LOCATIONS AS INDICATED IN THE LATEST VERSION OF THE TRANSPORTATION SECURITY ADMINISTRATION CHECKPOINT REQUIREMENTS AND PLANNING GUIDE (CRPG). IF REQUIRED DUE TO SITE CONSTRAINTS, ADJUST BOX LOCATIONS WITHIN THE ACCEPTABLE AREAS INDICATED IN THE LATEST VERSION OF THE TRANSPORTATION SECURITY ADMINISTRATION CHECKPOINT REQUIREMENTS AND PLANNING GUIDE (CRPG).	1. 1-15 KVA: CLASS 185 WITH 115 DEGREES C RISE. 2. 16-500 KVA: CLASS 220 WITH 115 DEGREES C RISE.	B. DEVICE BODY: NYLON FACE. COLOR TO MATCH AIRPORT STANDARD FINISHES FOR AREA OF INSTALLATION.		
	B. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS AND IN UNFINISHED AREAS ONLY.	C. WINDING TAPS:	C. RECEPTACLE: AS INDICATED ON DRAWINGS.		
	C. INACCESSIBLE CEILING AREAS: INSTALL OUTLET AND JUNCTION BOXES NO MORE THAN 6 INCHES FROM CEILING ACCESS PANEL.	1. TRANSFORMERS LESS THAN 15 KVA: TWO 5 PERCENT BELOW RATED VOLTAGE, FULL CAPACITY TAPS ON PRIMARY WINDING 2. TRANSFORMERS 15 KVA AND LARGER: TWO 2-1/2% FULL CAPACITY TAPS ABOVE AND FOUR 2-1/2% FULL CAPACITY TAPS BELOW RATED PRIMARY VOLTAGE.	1.3 WALL PLATES		
	D. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS.	D. SOUND LEVELS: NEMA ST 20.	A. COVER PLATE: MATERIAL AND COLOR TO MATCH AIRPORT STANDARD FINISHES FOR AREA OF INSTALLATION.		
	E. USE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.	E. MOUNTING:			
	F. LOCATE FLUSH MOUNTING BOX IN MASONRY WALL TO REQUIRE CUTTING OF MASONRY UNIT CORNER ONLY. COORDINATE MASONRY CUTTING TO ACHIEVE NEAT OPENING.	1. 1-15 KVA: SUITABLE FOR WALL MOUNTING. 2. 16-75 KVA: SUITABLE FOR WALL, FLOOR, OR TRAPEZE MOUNTING. 3. LARGER THAN 75 KVA: SUITABLE FOR FLOOR MOUNTING.			
	G. DO NOT INSTALL FLUSH MOUNTED BOXES BACK-TO-BACK IN WALLS; PROVIDE MINIMUM 6 INCHES SEPARATION. PROVIDE MINIMUM 24 INCHES SEPARATION IN ACOUSTIC OR FIRE RATED WALLS.	1.3 INSTALLATION			
	1. FIRE RATED WALLS: IF ACCEPTABLE TO THE LOCAL AUTHORITY, BOXES MAY BE SPACED A MINIMUM OF 6 INCHES APART IF WRAPPED WITH UL CATEGORY CLIV PUTTY PADS TO PROVIDE A 1 OR 2 HOUR RATED FIRE STOP.	A. USE FLEXIBLE CONDUIT 2 FEET MINIMUM LENGTH, FOR CONNECTIONS TO TRANSFORMER CASE. MAKE CONDUIT CONNECTIONS TO SIDE PANEL OF ENCLOSURE.			
H. USE STAMPED STEEL BRIDGES TO FASTEN FLUSH MOUNTING OUTLET BOX BETWEEN STUDS.	B. MOUNT FLOOR-MOUNTED TRANSFORMERS ON VIBRATION ISOLATING PADS SUITABLE FOR ISOLATING THE TRANSFORMER NOISE FROM THE BUILDING STRUCTURE.				
I. USE ADJUSTABLE STEEL CHANNEL FASTENERS FOR HUNG CEILING OUTLET BOX.	C. MEASURE PRIMARY AND SECONDARY VOLTAGES AND MAKE APPROPRIATE TAP ADJUSTMENTS.				
J. DO NOT FASTEN BOXES TO CEILING SUPPORT WIRES.					
K. SUPPORT BOXES INDEPENDENTLY OF CONDUIT.					
L. USE GANG BOX WHERE MORE THAN ONE DEVICE IS MOUNTED TOGETHER. DO NOT USE SECTIONAL BOX. USE GANG BOX WITH PLASTER RING FOR SINGLE DEVICE OUTLETS.					
M. USE CAST BOXES IN EXTERIOR LOCATIONS EXPOSED TO THE WEATHER AND IN INTERIOR WET LOCATIONS.					
N. USE CAST FLOOR BOXES FOR INSTALLATIONS IN SLAB ON GRADE; FORMED STEEL BOXES ARE ACCEPTABLE FOR OTHER INTERIOR INSTALLATIONS. SET FLOOR BOXES LEVEL.					
		</			



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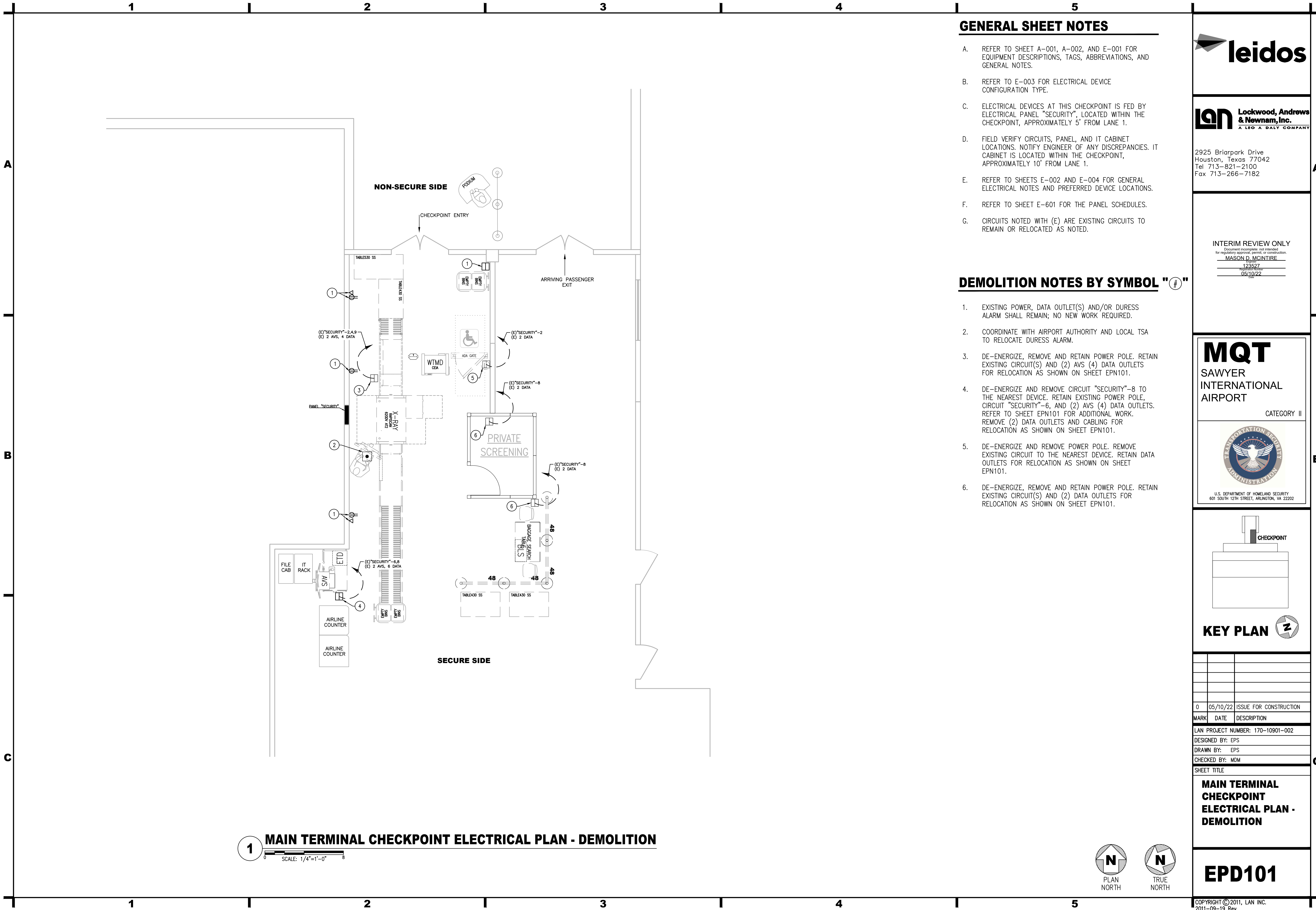
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SHEET TITLE

**ELECTRICAL
SPECIFICATIONS**

E-202

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GENERAL SHEET NOTES

- A. REFER TO SHEET A-001, A-002, AND E-001 FOR EQUIPMENT DESCRIPTIONS, TAGS, ABBREVIATIONS, AND GENERAL NOTES.
- B. REFER TO E-003 FOR ELECTRICAL DEVICE CONFIGURATION TYPE.
- C. ELECTRICAL DEVICES AT THIS CHECKPOINT IS FED BY ELECTRICAL PANEL "SECURITY", LOCATED WITHIN THE CHECKPOINT, APPROXIMATELY 5' FROM LANE 1.
- D. FIELD VERIFY CIRCUITS, PANEL, AND IT CABINET LOCATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES. IT CABINET IS LOCATED WITHIN THE CHECKPOINT, APPROXIMATELY 10' FROM LANE 1.
- E. REFER TO SHEETS E-002 AND E-004 FOR GENERAL ELECTRICAL NOTES AND PREFERRED DEVICE LOCATIONS.
- F. REFER TO SHEET E-601 FOR THE PANEL SCHEDULES.
- G. CIRCUITS NOTED WITH (E) ARE EXISTING CIRCUITS TO REMAIN OR RELOCATED AS NOTED.

DEMOLITION NOTES BY SYMBOL "#"

- 1. EXISTING POWER, DATA OUTLET(S) AND/OR DURESS ALARM SHALL REMAIN; NO NEW WORK REQUIRED.
- 2. COORDINATE WITH AIRPORT AUTHORITY AND LOCAL TSA TO RELOCATE DURESS ALARM.
- 3. DE-ENERGIZE, REMOVE AND RETAIN POWER POLE. RETAIN EXISTING CIRCUIT(S) AND (2) AVS (4) DATA OUTLETS FOR RELOCATION AS SHOWN ON SHEET EPN101.
- 4. DE-ENERGIZE AND REMOVE CIRCUIT "SECURITY"-8 TO THE NEAREST DEVICE. RETAIN EXISTING POWER POLE, CIRCUIT "SECURITY"-6, AND (2) AVS (4) DATA OUTLETS. REFER TO SHEET EPN101 FOR ADDITIONAL WORK. REMOVE (2) DATA OUTLETS AND CABLING FOR RELOCATION AS SHOWN ON SHEET EPN101.
- 5. DE-ENERGIZE AND REMOVE POWER POLE. REMOVE EXISTING CIRCUIT TO THE NEAREST DEVICE. RETAIN DATA OUTLETS FOR RELOCATION AS SHOWN ON SHEET EPN101.
- 6. DE-ENERGIZE, REMOVE AND RETAIN POWER POLE. RETAIN EXISTING CIRCUIT(S) AND (2) DATA OUTLETS FOR RELOCATION AS SHOWN ON SHEET EPN101.



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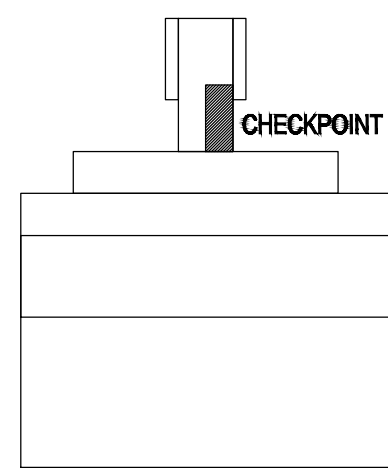
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KEY PLAN

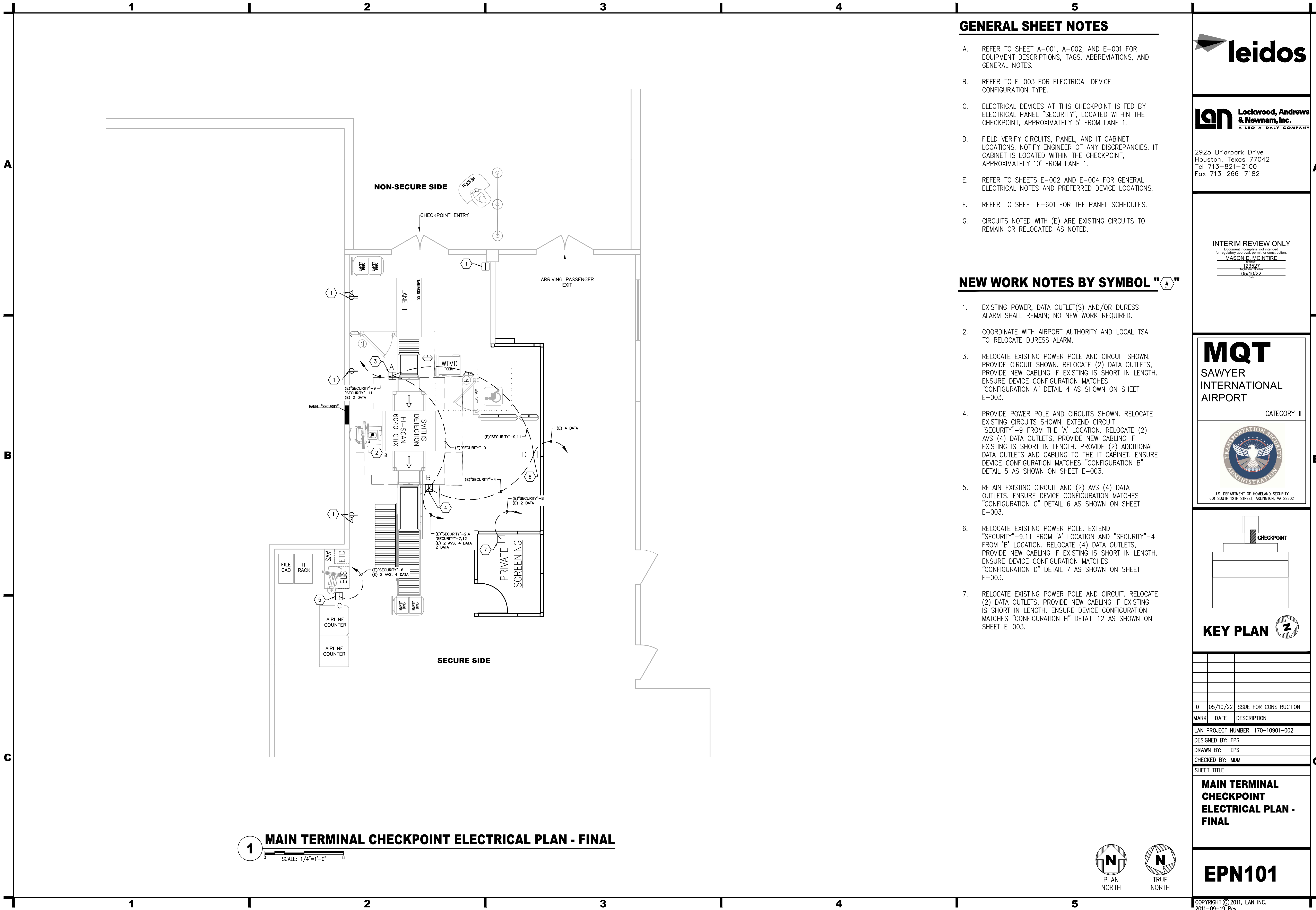
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DESIGNED BY: EPS
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SHEET TITLE
**MAIN TERMINAL
CHECKPOINT
ELECTRICAL PLAN -
DEMOLITION**

EPD101

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GENERAL SHEET NOTES

- A. REFER TO SHEET A-001, A-002, AND E-001 FOR EQUIPMENT DESCRIPTIONS, TAGS, ABBREVIATIONS, AND GENERAL NOTES.
- B. REFER TO E-003 FOR ELECTRICAL DEVICE CONFIGURATION TYPE.
- C. ELECTRICAL DEVICES AT THIS CHECKPOINT IS FED BY ELECTRICAL PANEL "SECURITY", LOCATED WITHIN THE CHECKPOINT, APPROXIMATELY 5' FROM LANE 1.
- D. FIELD VERIFY CIRCUITS, PANEL, AND IT CABINET LOCATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES. IT CABINET IS LOCATED WITHIN THE CHECKPOINT, APPROXIMATELY 10' FROM LANE 1.
- E. REFER TO SHEETS E-002 AND E-004 FOR GENERAL ELECTRICAL NOTES AND PREFERRED DEVICE LOCATIONS.
- F. REFER TO SHEET E-601 FOR THE PANEL SCHEDULES.
- G. CIRCUITS NOTED WITH (E) ARE EXISTING CIRCUITS TO REMAIN OR RELOCATED AS NOTED.

NEW WORK NOTES BY SYMBOL "#"

- 1. EXISTING POWER, DATA OUTLET(S) AND/OR DURESS ALARM SHALL REMAIN; NO NEW WORK REQUIRED.
- 2. COORDINATE WITH AIRPORT AUTHORITY AND LOCAL TSA TO RELOCATE DURESS ALARM.
- 3. RELOCATE EXISTING POWER POLE AND CIRCUIT SHOWN. PROVIDE CIRCUIT SHOWN. RELOCATE (2) DATA OUTLETS, PROVIDE NEW CABLING IF EXISTING IS SHORT IN LENGTH. ENSURE DEVICE CONFIGURATION MATCHES "CONFIGURATION A" DETAIL 4 AS SHOWN ON SHEET E-003.
- 4. PROVIDE POWER POLE AND CIRCUITS SHOWN. RELOCATE EXISTING CIRCUITS SHOWN. EXTEND CIRCUIT "SECURITY"-9 FROM THE 'A' LOCATION. RELOCATE (2) AVS (4) DATA OUTLETS, PROVIDE NEW CABLING IF EXISTING IS SHORT IN LENGTH. PROVIDE (2) ADDITIONAL DATA OUTLETS AND CABLING TO THE IT CABINET. ENSURE DEVICE CONFIGURATION MATCHES "CONFIGURATION B" DETAIL 5 AS SHOWN ON SHEET E-003.
- 5. RETAIN EXISTING CIRCUIT AND (2) AVS (4) DATA OUTLETS. ENSURE DEVICE CONFIGURATION MATCHES "CONFIGURATION C" DETAIL 6 AS SHOWN ON SHEET E-003.
- 6. RELOCATE EXISTING POWER POLE. EXTEND "SECURITY"-9,11 FROM 'A' LOCATION AND "SECURITY"-4 FROM 'B' LOCATION. RELOCATE (4) DATA OUTLETS, PROVIDE NEW CABLING IF EXISTING IS SHORT IN LENGTH. ENSURE DEVICE CONFIGURATION MATCHES "CONFIGURATION D" DETAIL 7 AS SHOWN ON SHEET E-003.
- 7. RELOCATE EXISTING POWER POLE AND CIRCUIT. RELOCATE (2) DATA OUTLETS, PROVIDE NEW CABLING IF EXISTING IS SHORT IN LENGTH. ENSURE DEVICE CONFIGURATION MATCHES "CONFIGURATION H" DETAIL 12 AS SHOWN ON SHEET E-003.

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MASON D. MCINTIRE
123527
05/10/22

MQT
SAWYER
INTERNATIONAL
AIRPORT
CATEGORY II

U.S. DEPARTMENT OF HOMELAND SECURITY
601 SOUTH 12TH STREET, ARLINGTON, VA 22202

KEY PLAN

0	05/10/22	ISSUE FOR CONSTRUCTION
MARK	DATE	DESCRIPTION
LAN PROJECT NUMBER: 170-10901-002		
DESIGNED BY: EPS		
DRAWN BY: EPS		
CHECKED BY: MDW		
SHEET TITLE		
MAIN TERMINAL CHECKPOINT ELECTRICAL PLAN - FINAL		
EPN101		

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2011-09-19 Rev.

A

PANEL NO.		SECURITY - EXISTING		TYPE		BRANCH CIRCUIT PANEL		LOCATION		10' FROM LANE 1							
SERVICE VOLTAGE		208Y/120V, 3PH, 4W		PHASE BUS RATING		60 AMPS		MOUNTING		SURFACE							
MAIN BREAKER SIZE		60 AMP MCB		NEUTRAL BUS RATING		60 AMPS											
				SHORT CIRCUIT RATING		10000 AIC											
CIRCUIT	DESCRIPTION	LOAD AMP	BREAKER		VOLT AMPS			CKT. NO.	CKT. NO.	VOLT AMPS			BREAKER POLE AMP	LOAD AMP	DESCRIPTION	CIRCUIT	
			POLE	AMP	A	B	C			A	B	C					
	SPARE	0.0	1	20				1	2	55			1	20	0.5	WTMD	20-2
	SPARE	0.0	1	20				3	4			1800	1	20	15.0	AT LANE 1	20-2
20-2	EMERGENCY RED OUTLETS	3.0	1	20			360	5	6			710	1	20	5.9	AVS/BLS/ETD	20-2
	SPARE	0.0	1	20				7	8	500			1	20	4.2	EXISTING LOAD	20-2
20-2	CONVEYOR	2.5	1	20			300	9	10			360	1	30	3.0	PRIVATE SCREEN RM	30-2
	SPARE	0.0	1	20				11	12				1	30	0.0	SPARE	
	SPACE	0.0						13	14	1000					9.6	IT CABINET	30-2
	SPACE	0.0						15	16			1000	2	30			
	SPACE	0.0						17	18						0.0	SPACE	
	SPACE	0.0						19	20						0.0	SPACE	
	SPACE	0.0						21	22						0.0	SPACE	
	SPACE	0.0						23	24						0.0	SPACE	
TOTAL PHASE A: 1555 VOLT-AMPS																	
TOTAL PHASE B: 3460 VOLT-AMPS																	
TOTAL PHASE C: 1070 VOLT-AMPS																	
MAXIMUM PHASE CURRENT: 28.8 AMPS																	
TOTAL CONNECTED LOAD: 6.1 KVA																	
ESTIMATED DEMAND LOAD: 6.1 KVA																	
ESTIMATED DEMAND LOAD: 16.9 AMPS																	

1

PANEL SCHEDULE "SECURITY" - EXISTING

SCALE: NOT TO SCALE

B

PANEL NO.				SECURITY - REVISED				TYPE BRANCH CIRCUIT PANEL				LOCATION				10' FROM LANE 1							
SERVICE VOLTAGE				208Y/120V, 3PH, 4W				PHASE BUS RATING				60 AMPS				MOUNTING				SURFACE			
MAIN BREAKER SIZE				60 AMP MCB				NEUTRAL BUS RATING				60 AMPS											
								SHORT CIRCUIT RATING				10000 AIC											
CIRCUIT	DESCRIPTION			LOAD AMP	BREAKER		VOLT AMPS			CKT. NO.	CKT. NO.	VOLT AMPS			BREAKER		LOAD AMP	DESCRIPTION			CIRCUIT		
					POLE	AMP	A	B	C			A	B	C	POLE	AMP							
	SPARE			0.0	1	20				1	2		500			1	20	4.2	LANE 1 - PVS (5-20R DUPLEX)			20-2	
	SPARE			0.0	1	20					3	4			1920	1	20	16.0	LANE 1 - AIT (5-20R SIMPLEX)			20-2	
20-2	EMERGENCY RED OUTLETS			3.0	1	20					360	5	6			710	1	20	5.9	LANE 1 - AVS/BLS/ETD (5-20R DUPLEX)			20-2
20-2	LANE 1 - AT X-RAY CT1 (5-20R DUPLEX)			1.5	1	20		180			7	8		360			1	20	3.0	LANE 1 - PRIVATE SCREENING ROOM (5-20R DUPLEX)			20-2
20-2	LANE 1 - CONVEYOR & CO-LOCATED ETD (5-20R DUPLEX)			5.9	1	20			710		9	10			360	1	30	3.0	PRIVATE SCREEN RM			30-2	
20-2	LANE 1 - WTMD (L5-15R)			0.5	1	20				55	11	12				2800	1	30	23.3	LANE 1 - CT SCANNER (L5-30R)			30-2
	SPACE			0.0							13	14		1000					9.6	IT CABINET			30-2
	SPACE			0.0							15	16			1000		2	30					
	SPACE			0.0								17	18						0.0	SPACE			
	SPACE			0.0								19	20						0.0	SPACE			
	SPACE			0.0								21	22						0.0	SPACE			
	SPACE			0.0								23	24						0.0	SPACE			
				TOTAL PHASE A: 2040 VOLT-AMPS												TOTAL CONNECTED LOAD: 10.0 KVA							
				TOTAL PHASE B: 3990 VOLT-AMPS												ESTIMATED DEMAND LOAD: 10.0 KVA							
				TOTAL PHASE C: 3925 VOLT-AMPS												ESTIMATED DEMAND LOAD: 27.6 AMPS							

2

PANEL SCHEDULE "SECURITY" - REVISED

SCALE: NOT TO SCALE

C

BRANCH CIRCUIT SCHEDULE			
15-2	(2) 12 AWG, 12 AWG GND, 3/4" C.	15-3	(3) 12 AWG, 12 AWG GND, 3/4" C.
20-2	(2) 12 AWG, 12 AWG GND, 3/4" C.	20-3	(3) 12 AWG, 12 AWG GND, 3/4" C.
25-2	(2) 10 AWG, 10 AWG GND, 3/4" C.	25-3	(3) 10 AWG, 10 AWG GND, 3/4" C.
30-2	(2) 10 AWG, 10 AWG GND, 3/4" C.	30-3	(3) 10 AWG, 10 AWG GND, 3/4" C.
35-2	(2) 8 AWG, 10 AWG GND, 3/4" C.	35-3	(3) 8 AWG, 10 AWG GND, 3/4" C.
40-2	(2) 8 AWG, 10 AWG GND, 3/4" C.	40-3	(3) 8 AWG, 10 AWG GND, 3/4" C.
45-2	(2) 8 AWG, 10 AWG GND, 3/4" C.	45-3	(3) 8 AWG, 10 AWG GND, 3/4" C.
50-2	(2) 8 AWG, 10 AWG GRD, 3/4" C.	50-3	(3) 8 AWG, 10 AWG GRD, 3/4" C.
60-2	(2) 6 AWG, 10 AWG GRD, 3/4" C.	60-3	(3) 6 AWG, 10 AWG GRD, 3/4" C.
70-2	(2) 4 AWG, 8 AWG GRD, 1" C.	70-3	(3) 4 AWG, 8 AWG GRD, 1" C.
80-2	(2) 4 AWG, 8 AWG GRD, 1" C.	80-3	(3) 4 AWG, 8 AWG GRD, 1" C.
90-2	(2) 3 AWG, 8 AWG GRD, 1" C.	90-3	(3) 3 AWG, 8 AWG GRD, 1 1/4" C.
100-2	(2) 3 AWG, 8 AWG GRD, 1" C.	100-3	(3) 3 AWG, 8 AWG GRD, 1 1/4" C.

3

BRANCH CIRCUIT SCHEDULE

SCALE: NOT TO SCALE

GENERAL SHEET NOTES

- A. PANEL SCHEDULE INFORMATION FOR EXISTING PANELS IS TAKEN FROM FIELD OBSERVATIONS OF EXISTING PANEL DIRECTORIES AND/OR AS-BUILTS. FIELD VERIFY EXISTING CONDITIONS.
- B. THE CONTRACTOR SHALL VERIFY SPARE CAPACITY AVAILABLE ON EXISTING PANELS IN ACCORDANCE WITH NEC 220.87 BEFORE CONNECTION TO NEW LOADS.
- C. CIRCUIT DESCRIPTIONS SHOWN BOLD ARE PROPOSED CIRCUITS OR EXISTING CIRCUITS WITH A MODIFIED LOAD. REFER TO SHEET EPN101 FOR MORE INFORMATION.
- D. LABEL ALL CIRCUITS AT DEVICE WITH PANEL NAME AS SOME DEVICES CONTAIN CIRCUITS FROM MULTIPLE PANELS.

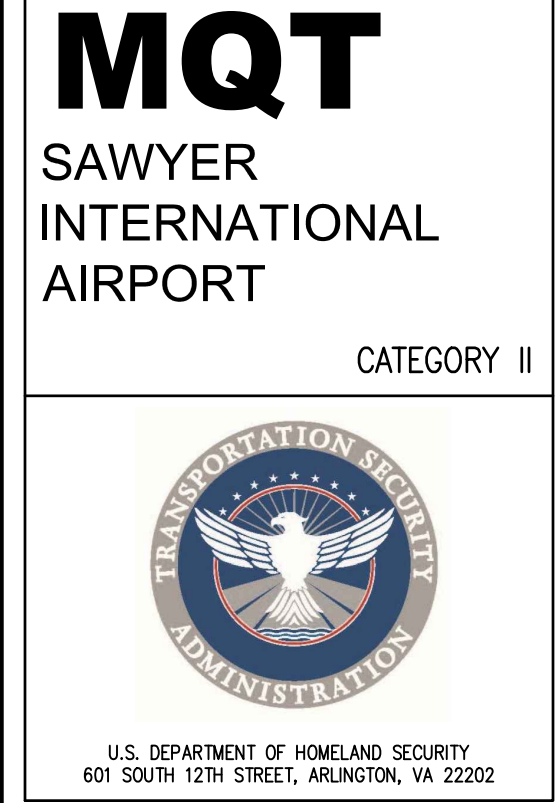
NEW WORK NOTES BY SYMBOL "#"

1. PROVIDE A 20A/1P CIRCUIT BREAKER AS SHOWN, MATCH PANEL OEM AND AIC RATING.



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0	05/10/22	ISSUE FOR CONSTRUCTION
MARK	DATE	DESCRIPTION

LAN PROJECT NUMBER: 170-10901-002
DESIGNED BY: EPS
DRAWN BY: EPS
CHECKED BY: MDW

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

E-601