

TRANSPORTATION SECURITY ADMINISTRATION
Office of Requirements and Capabilities Analysis
Innovation Task Force



Electrical and Data Future Planning



This quick look guide is meant to be a supplement to the CDG requirements and should be used in conjunction with the CDG. Please understand that any direction or suggestion coming from TSA is advisory only, in no way shall obligate TSA to fund any design or construction, and should be approved by the airport or airline responsible for payment of such design or construction.

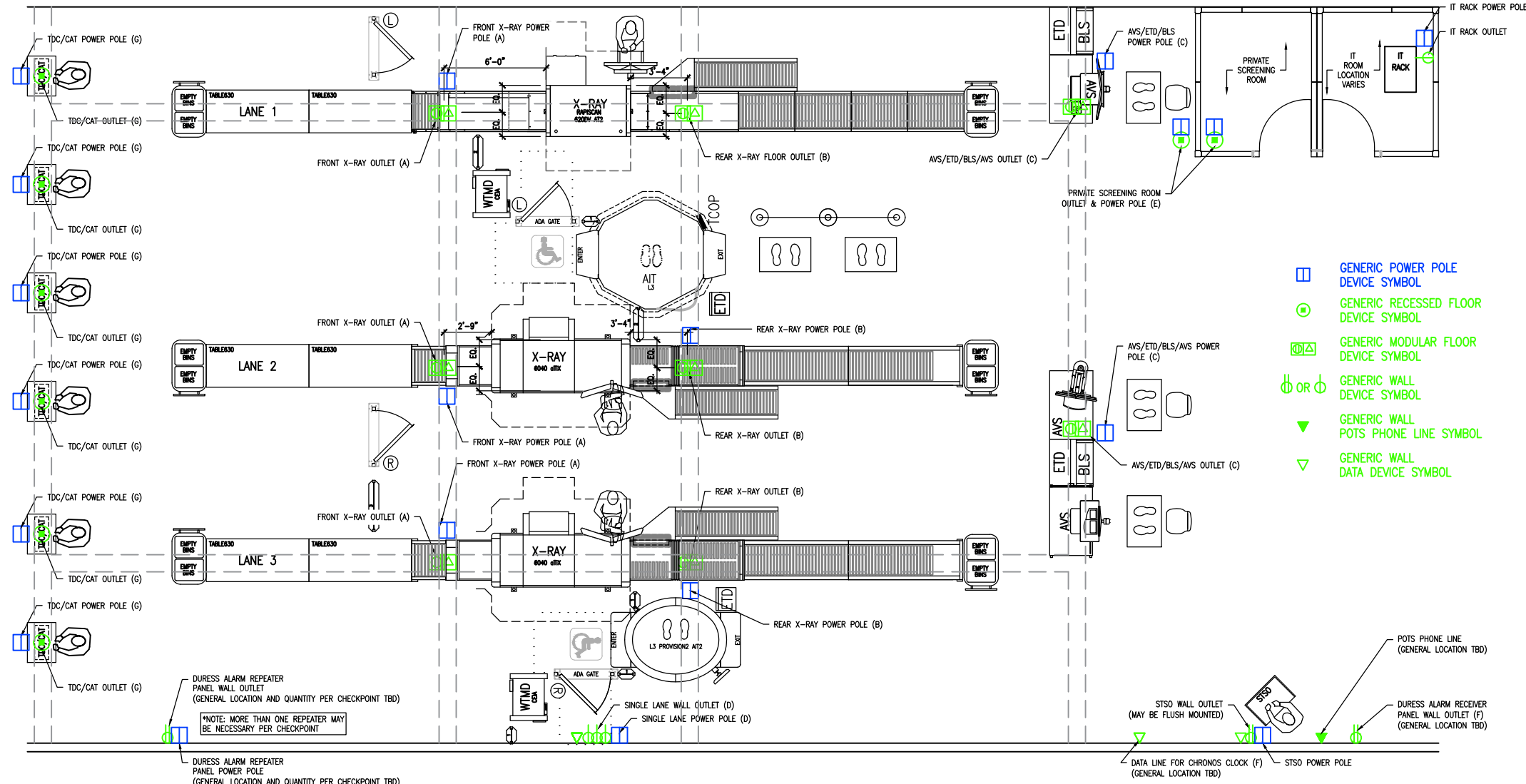
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NOTE:

REFERENCE CHECKPOINT DESIGN GUIDE 6.1 FOR ADDITIONAL ELECTRICAL AND DATA REQUIREMENTS FOR A COMPLETE CHECKPOINT INSTALLATION.





- NOTES:
- EQUIPMENT SHOWN REPRESENTS TWO DIFFERENT X-RAY MANUFACTURERS FOR EXAMPLE OF OUTLET PLACEMENT, EACH CHECKPOINT TYPICALLY INCLUDES ONLY ONE MANUFACTURER.
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POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC [CAT/E GATE/BAT]	1	1 20A CIRCUIT DEDICATED, 2 LOCATIONS PER LANE
WTMD	10	L5-15R SIMPLEX RECEPTACLE
AT X-RAY	1	PROVIDE SIMPLEX RECEPTACLE
QUEUEING CONVEYOR	2	MAY BE SHARED WITH CO-LOCATED ETD OUTLET WITHIN THE SAME MODULE SET
AIT	1	PROVIDE SIMPLEX RECEPTACLE
CT SCANNER	1	RECEPTACLE TO BE DETERMINED, PROVIDE DEDICATED 208/240 1PHASE 20 OR 30AMP
CO-LOCATED ETD	2	MAY BE SHARED WITH QUEUEING CONVEYOR OUTLET WITHIN THE SAME MODULE SET
AVS/ETD/BLS/AVS	1 SHARED LOCATION	OUTLET(S) POWERS RELOCATEABLE POWER TAP
PRIVATE SCREENING ROOM	1	ONE OUTLET INSIDE AND ONE OUTLET OUTSIDE OF PRIVATE SCREENING ROOM
STSO PODIUM	2	PROVIDE DUPLEX OUTLET
IT CABINET	1	30A L5-30R RECEPTACLE
DURESS ALARM RECEIVER PANEL	2	CIRCUITS SHARED CAN BE MORE THAN TWO THROUGHOUT CHECKPOINT BUT ONLY CAN INSTALL TWO REPEATERS PER DUPLEX
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- GENERIC POWER POLE DEVICE SYMBOL
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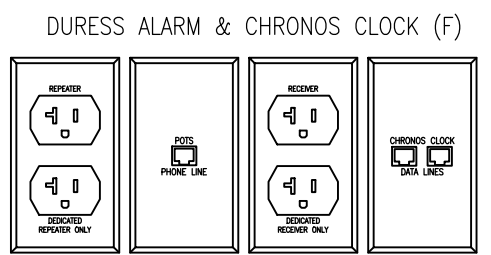
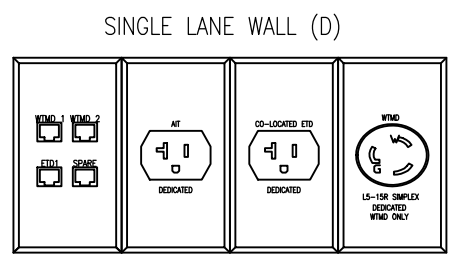
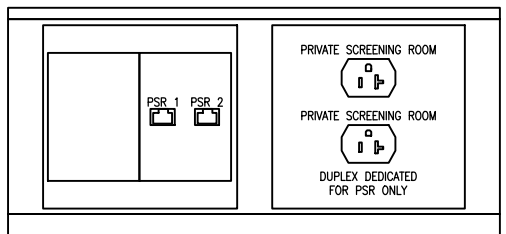
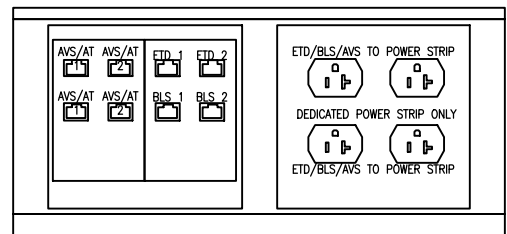
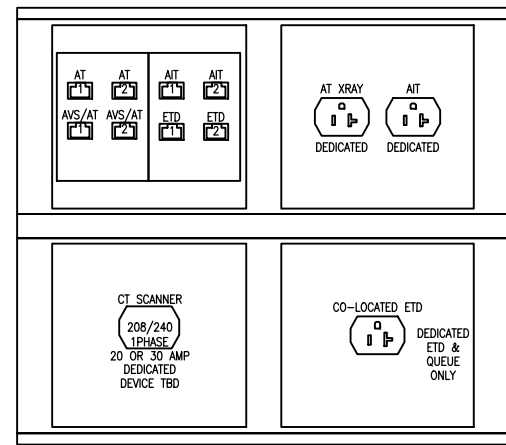
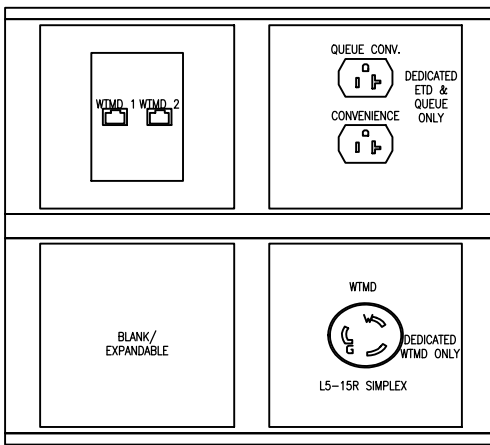
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FRONT XRAY OUTLET (A)

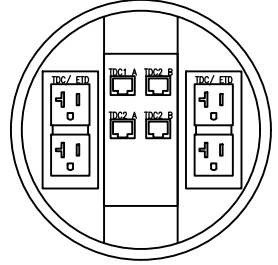
REAR XRAY OUTLET (B)

AVS/ETD/BLS/AVS/AVS (C)

PRIVATE SCREENING ROOM (E)



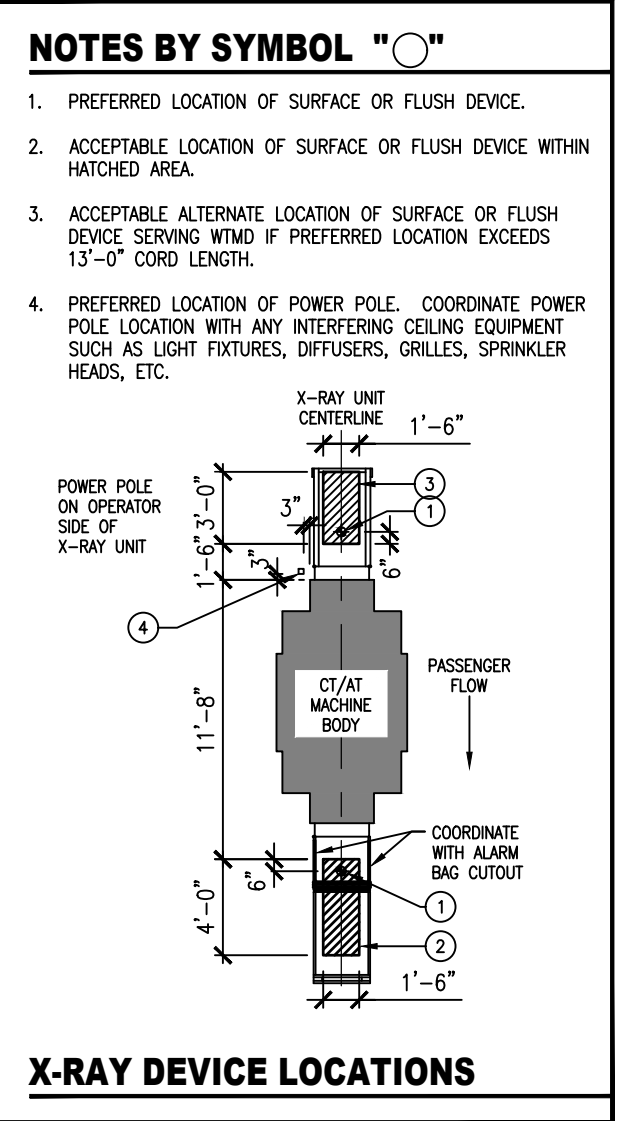
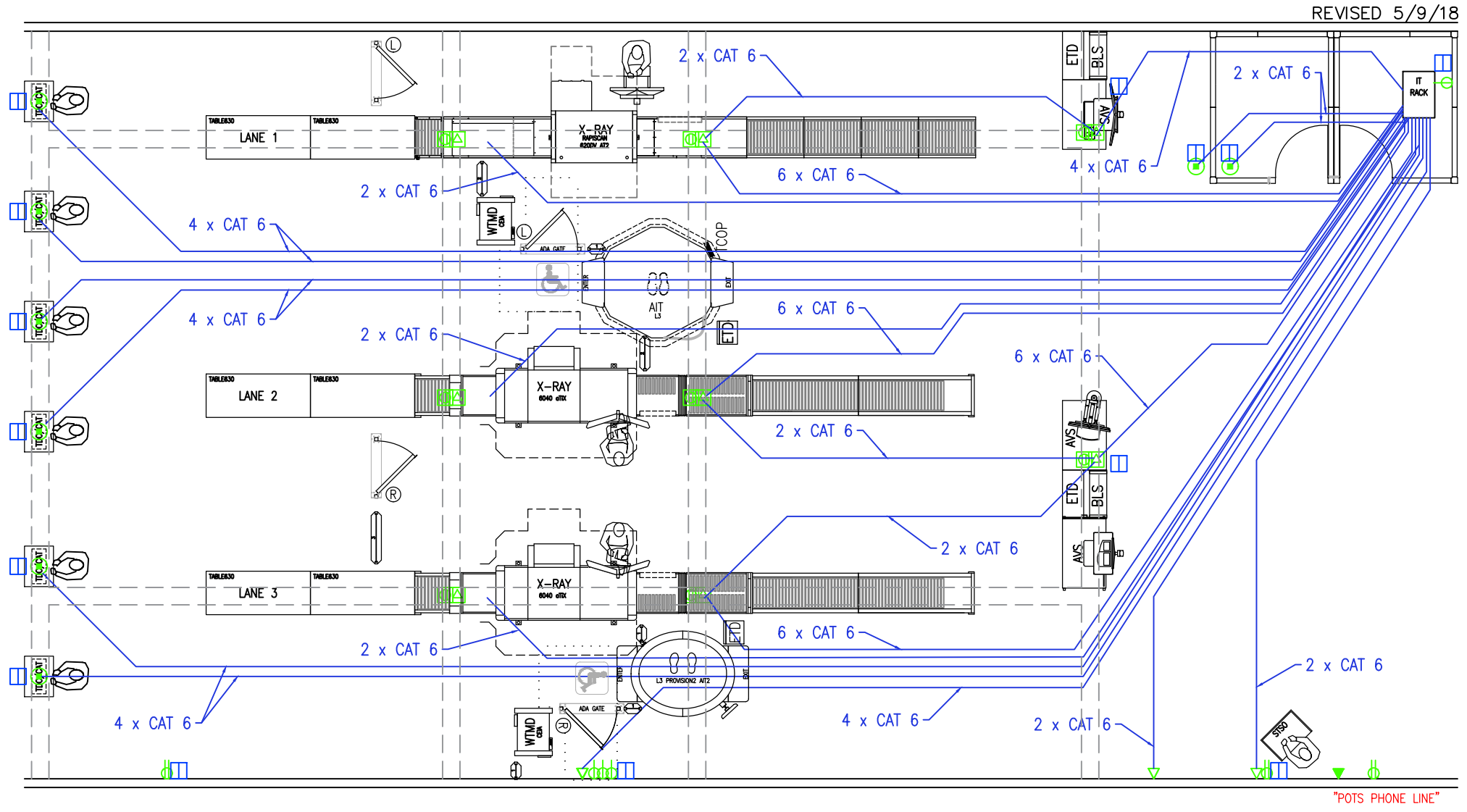
TDC [CAT/E GATE/BAT], STSO (G)
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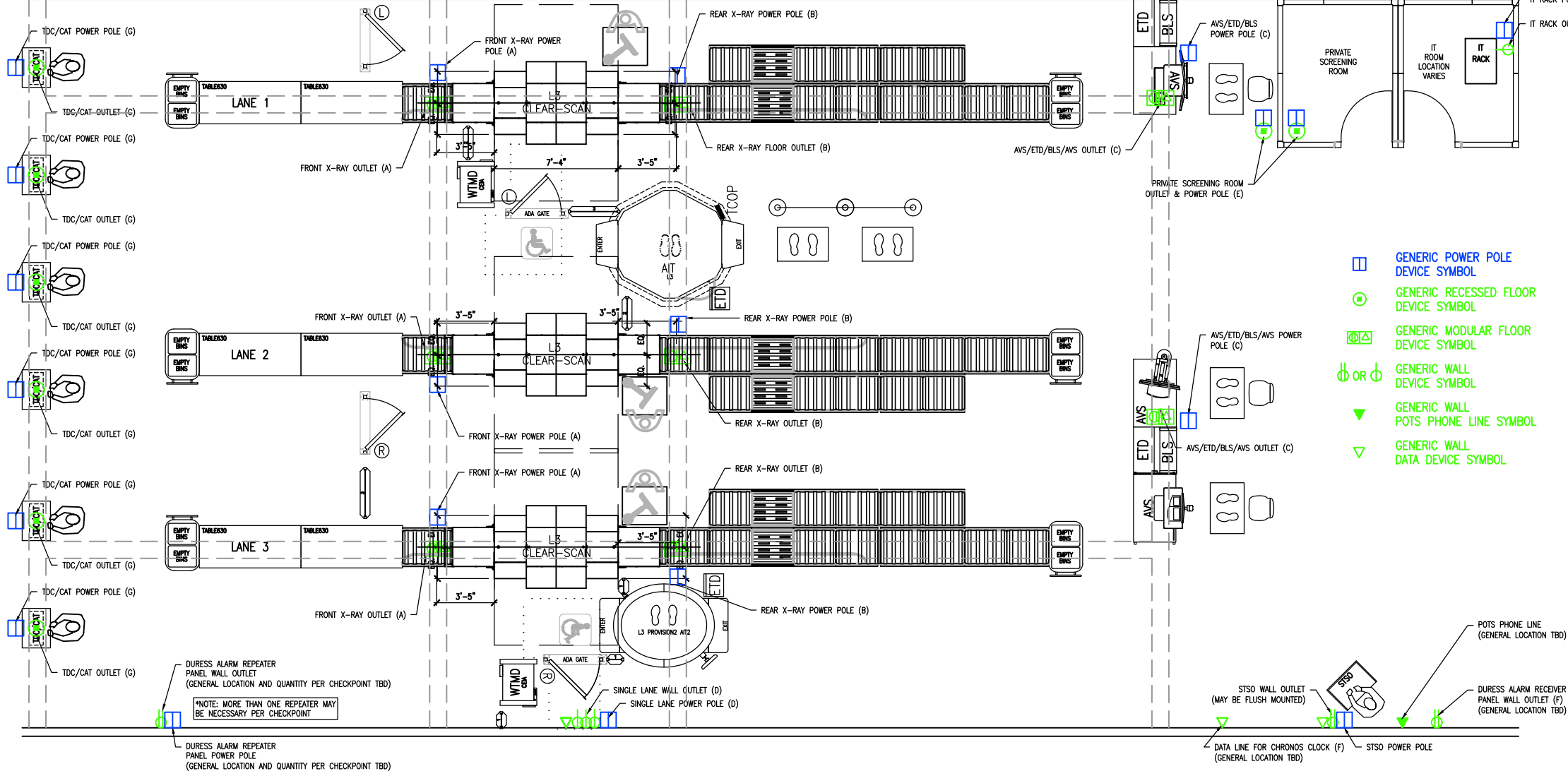


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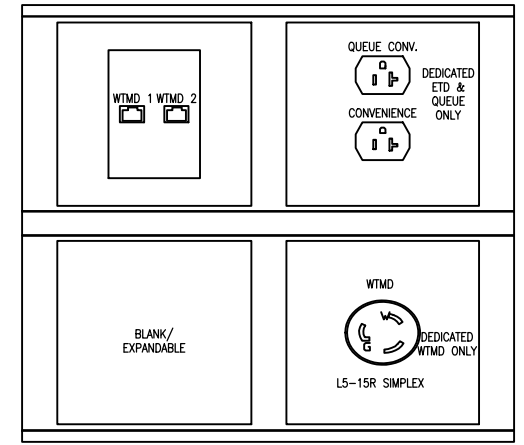
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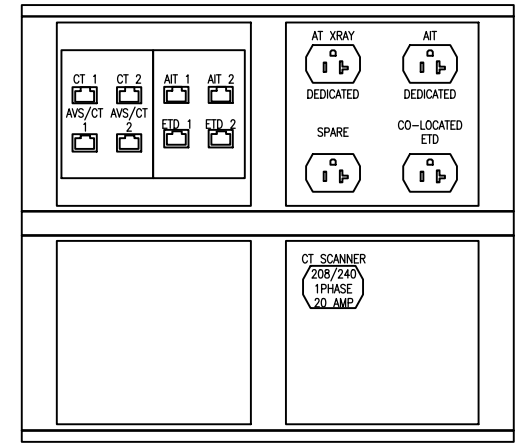
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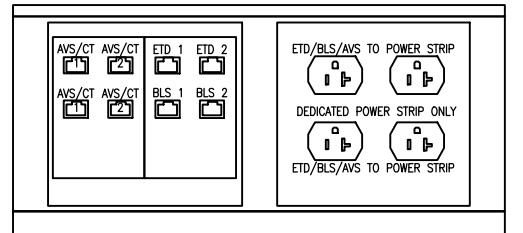
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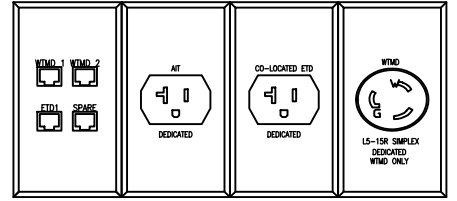
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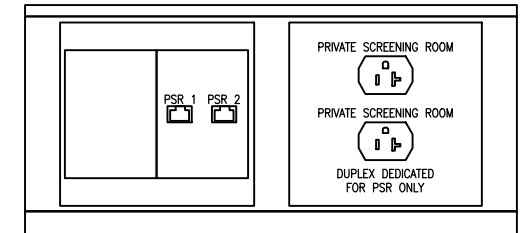
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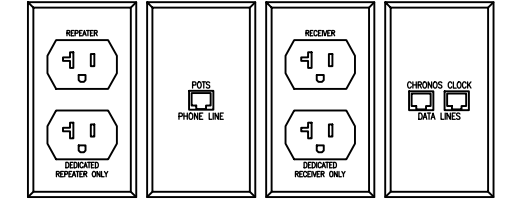
SINGLE LANE WALL (D)



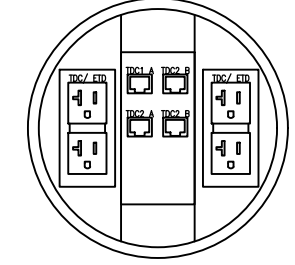
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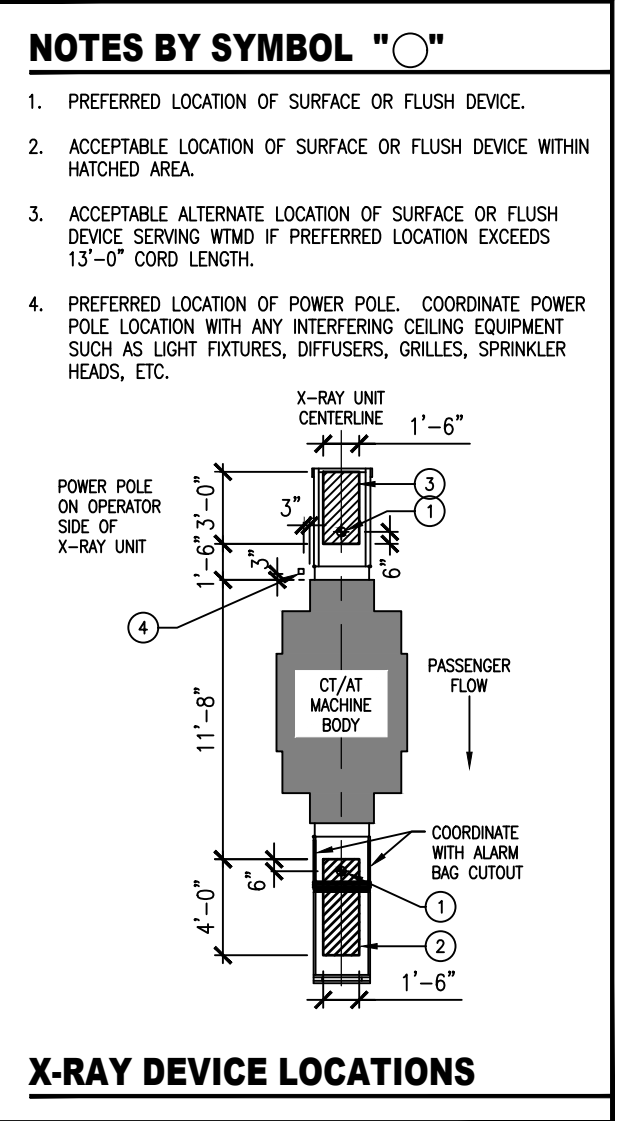
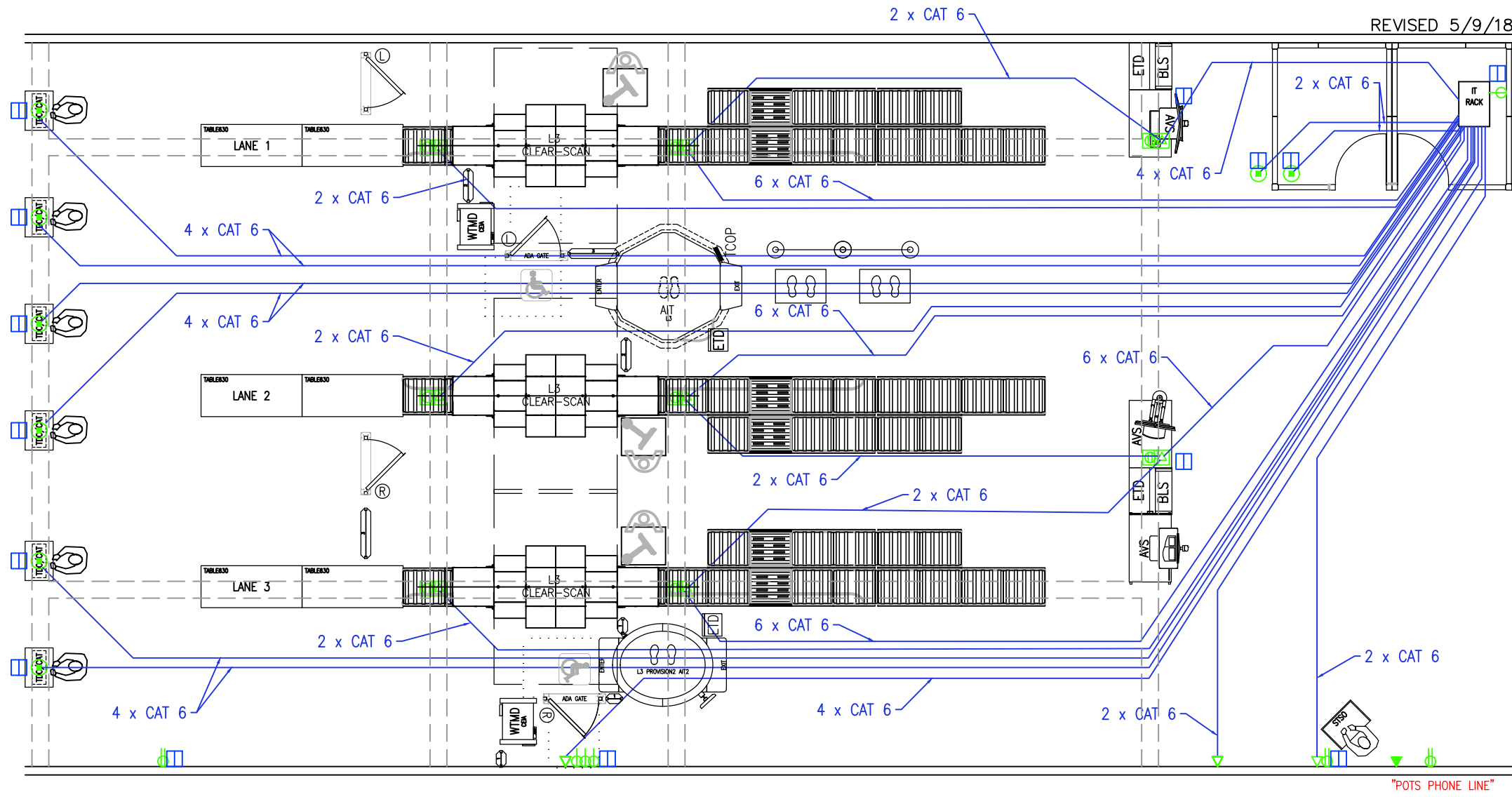
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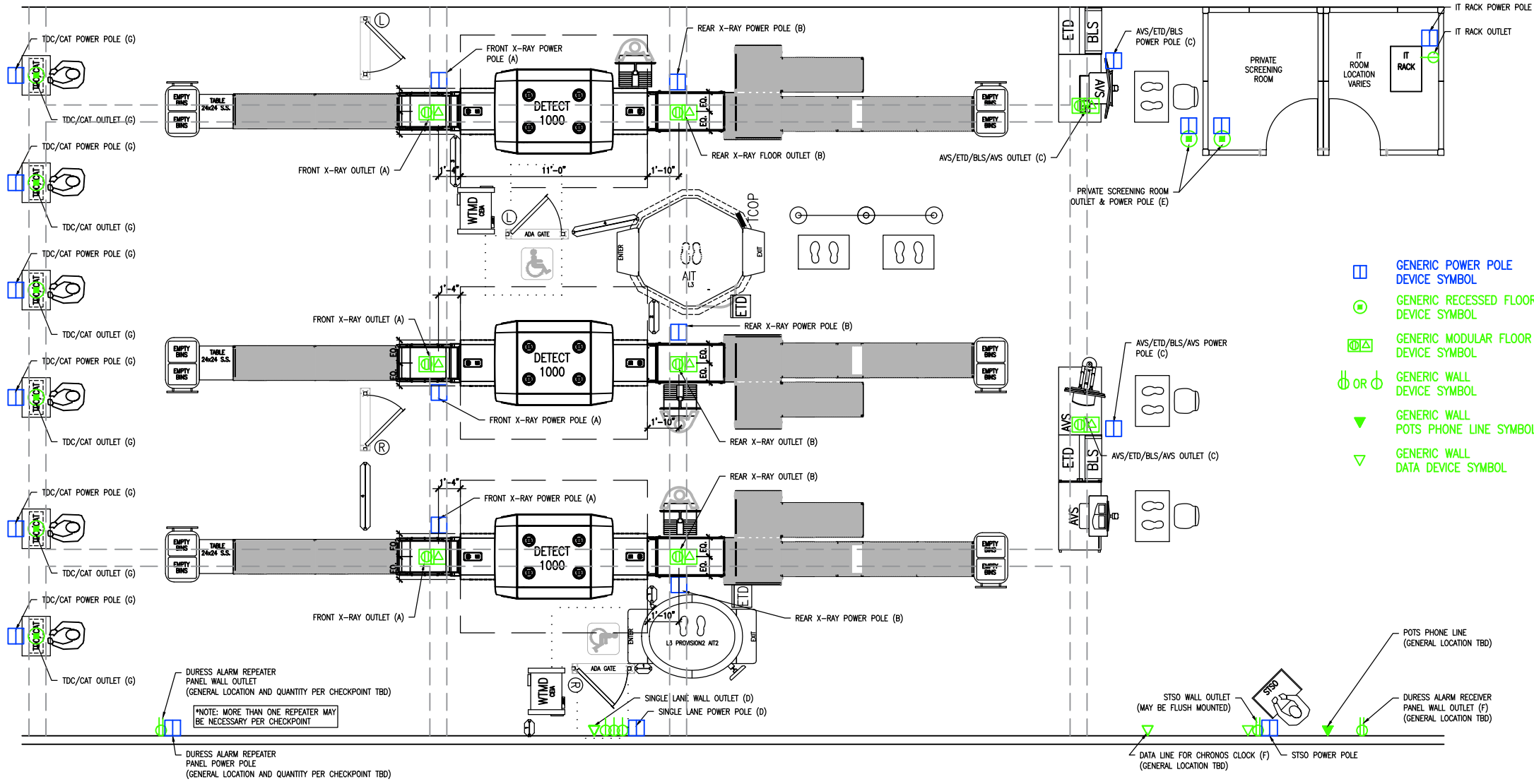


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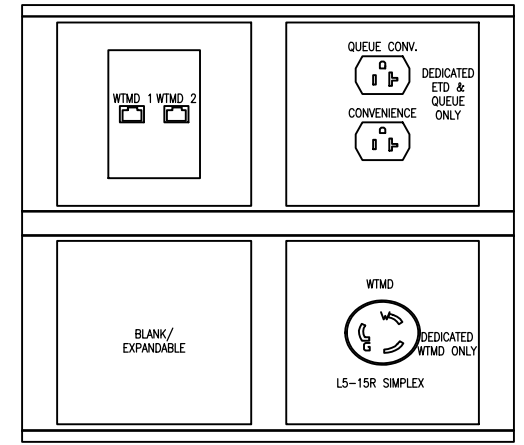
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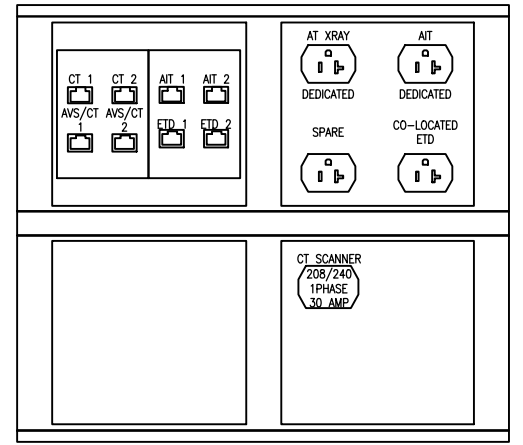
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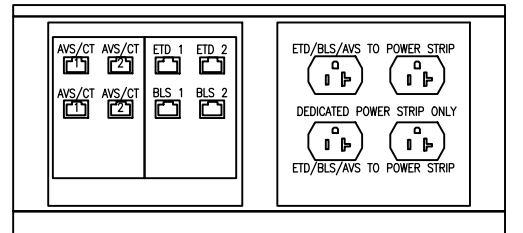
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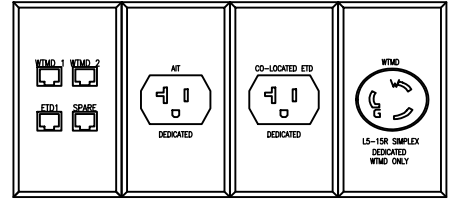
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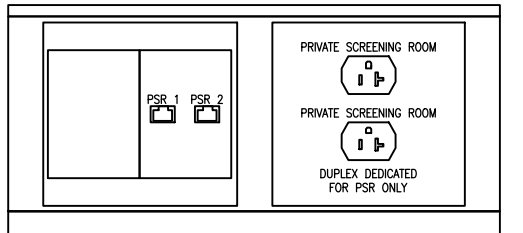
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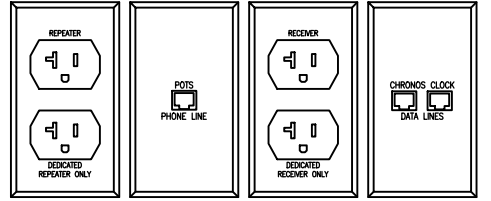
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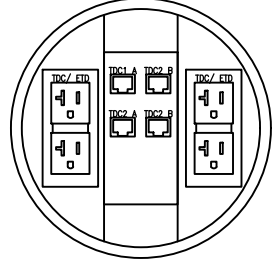
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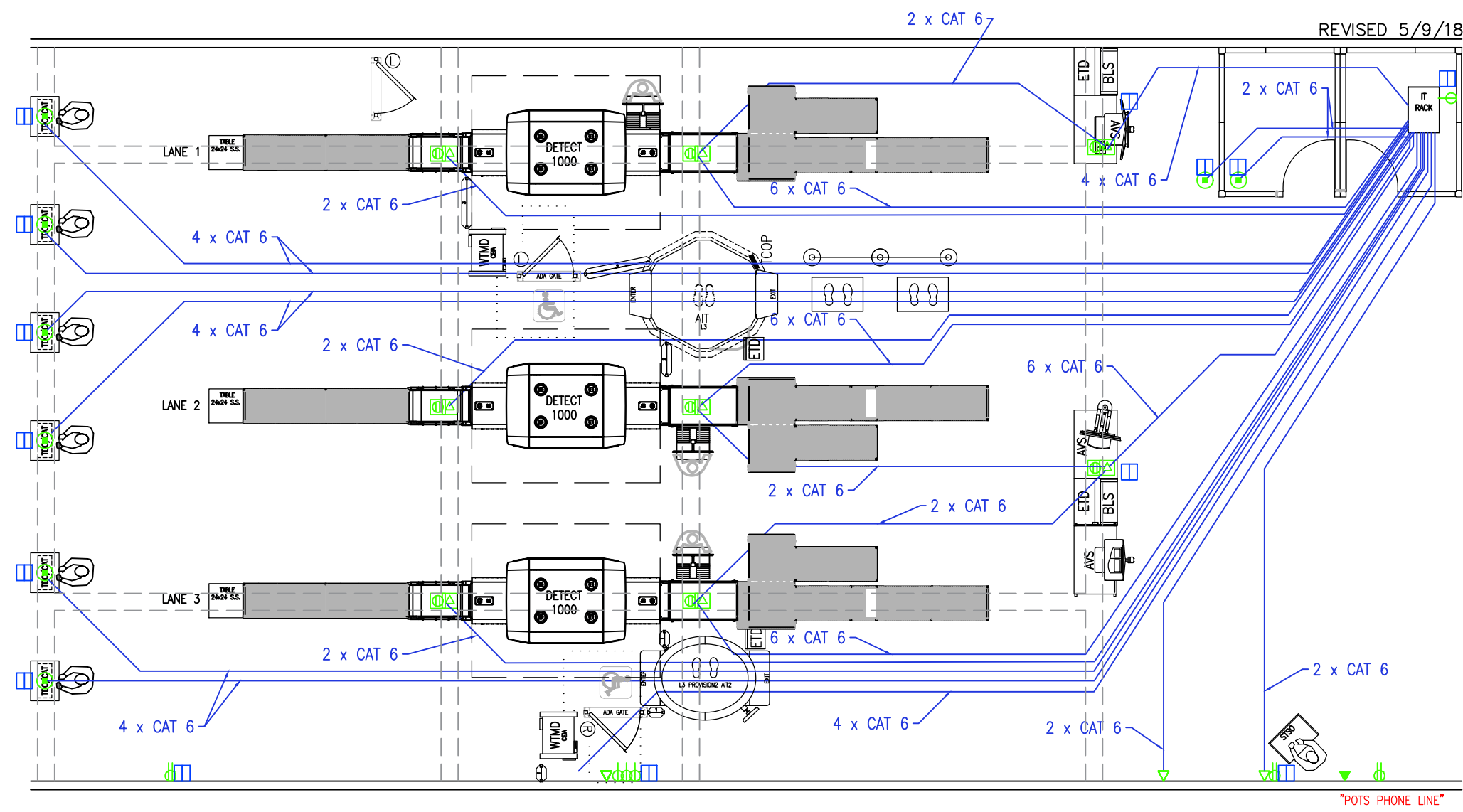
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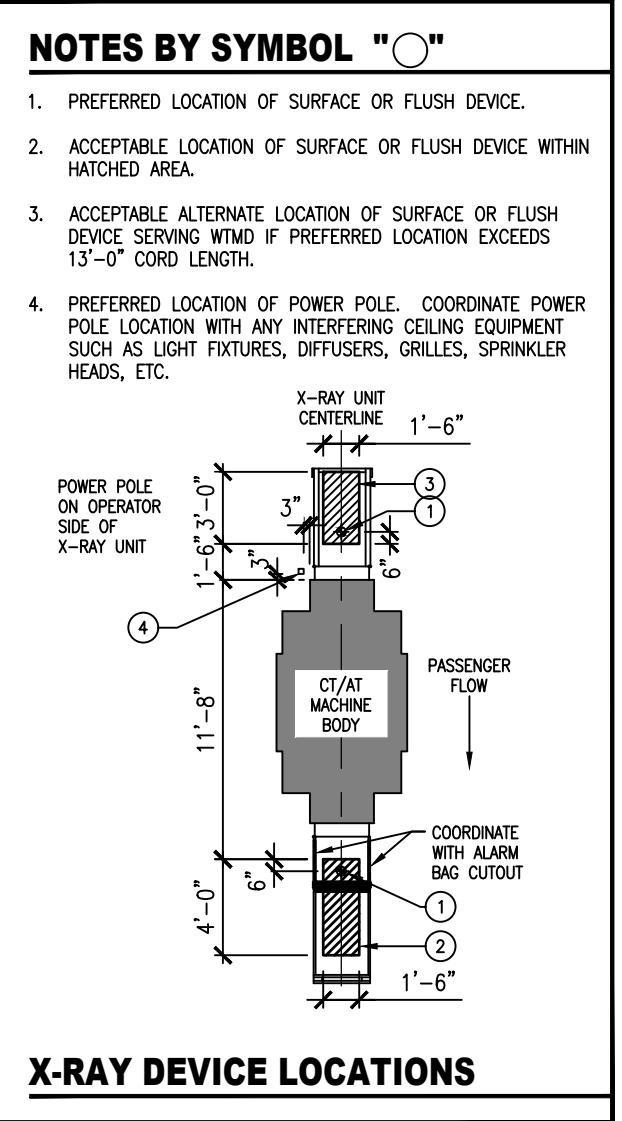
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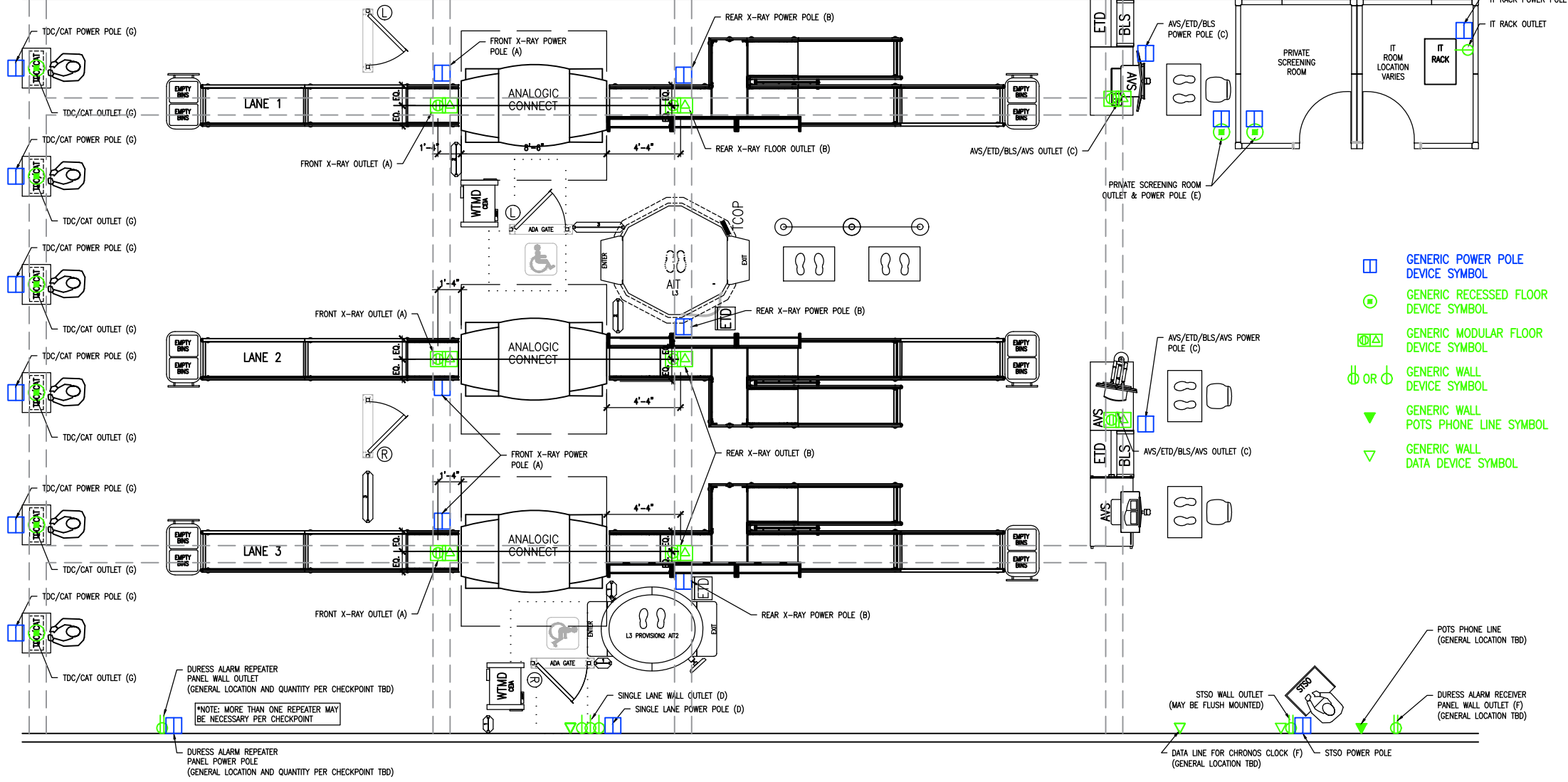
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REVISED 5/9/18





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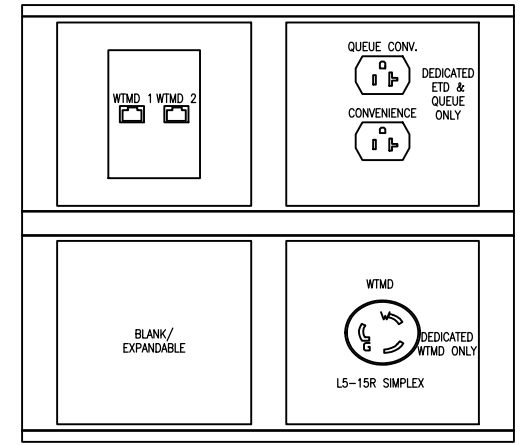
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QUEUING CONVEYOR	2	MAY BE SHARED WITH CO-LOCATED ETD OUTLET WITHIN THE SAME MODULE SET
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AVS/ETD/BLS/AVS	1 SHARED LOCATION	OUTLET(S) POWERS RELOCATEABLE POWER TAP
PRIVATE SCREENING ROOM	1	ONE OUTLET INSIDE AND ONE OUTLET OUTSIDE OF PRIVATE SCREENING ROOM
STSO PODIUM	2	PROVIDE DUPLEX OUTLET
IT CABINET	1	30A L5-30R RECEPTACLE
DURESS ALARM RECEIVER PANEL	2	CIRCUITS SHARED CAN BE MORE THAN TWO THROUGHOUT CHECKPOINT BUT ONLY CAN INSTALL TWO REPEATERS PER DUPLEX
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- GENERIC POWER POLE DEVICE SYMBOL
- GENERIC RECESSED FLOOR DEVICE SYMBOL
- (with symbol) GENERIC MODULAR FLOOR DEVICE SYMBOL
- ⊕ OR ⊖ GENERIC WALL DEVICE SYMBOL
- ▽ (with symbol) GENERIC WALL POTS PHONE LINE SYMBOL
- ▽ (with symbol) GENERIC WALL DATA DEVICE SYMBOL

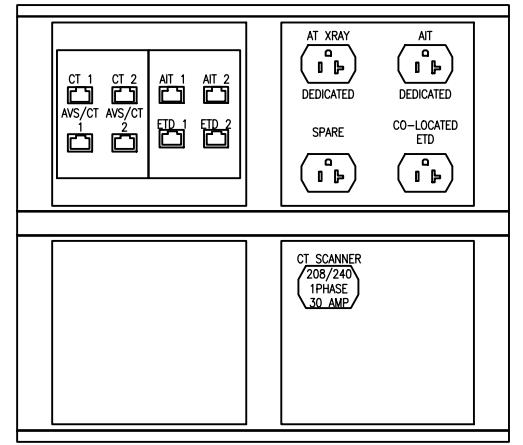
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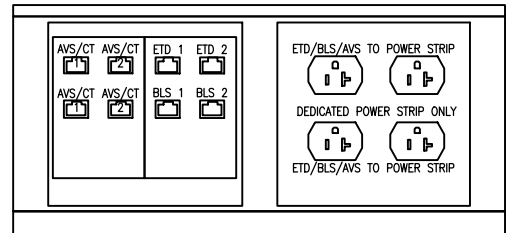
FRONT XRAY OUTLET (A)



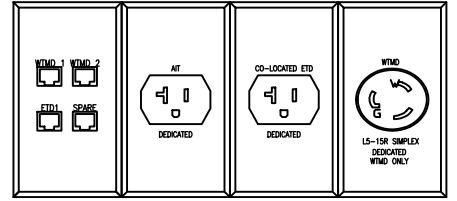
REAR XRAY OUTLET (B)



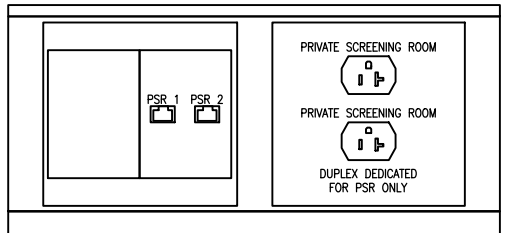
AVS/ETD/BLS/AVS/AVS (C)



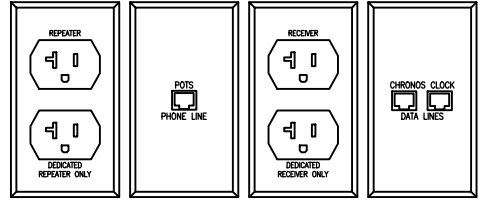
SINGLE LANE WALL (D)



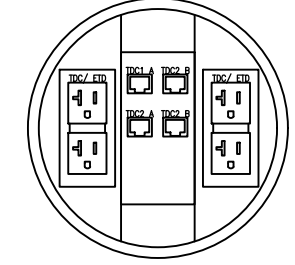
PRIVATE SCREENING ROOM (E)



DURESS ALARM & CHRONOS CLOCK (F)



TDC [CAT/E GATE/BAT], STSO (G)
DEDICATED, 2 PER LANE FOR TDC LOCATIONS

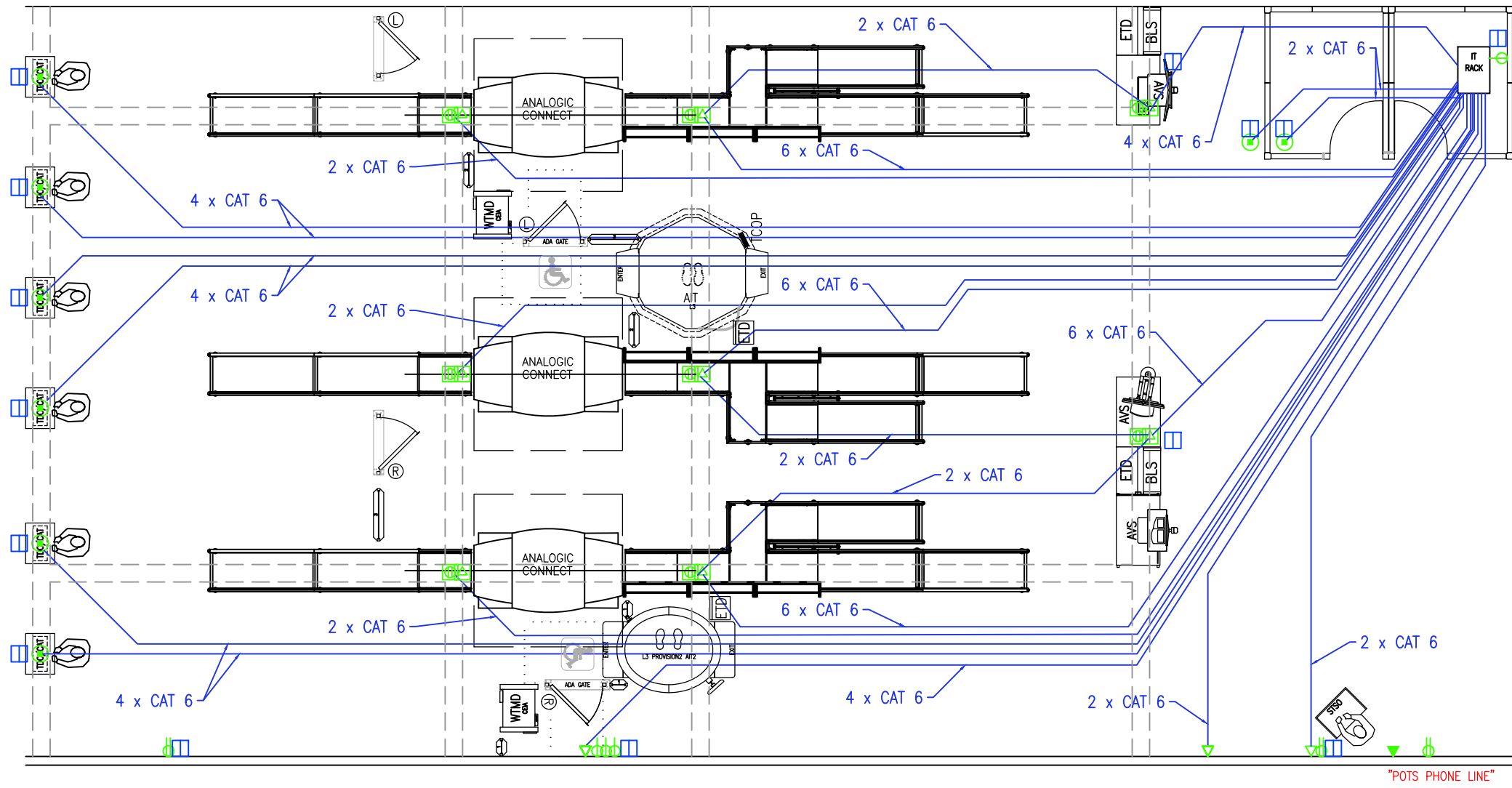


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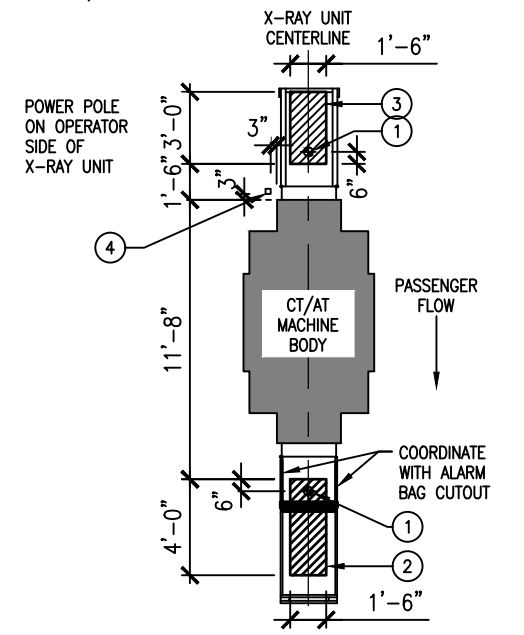
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REVISED 5/9/18



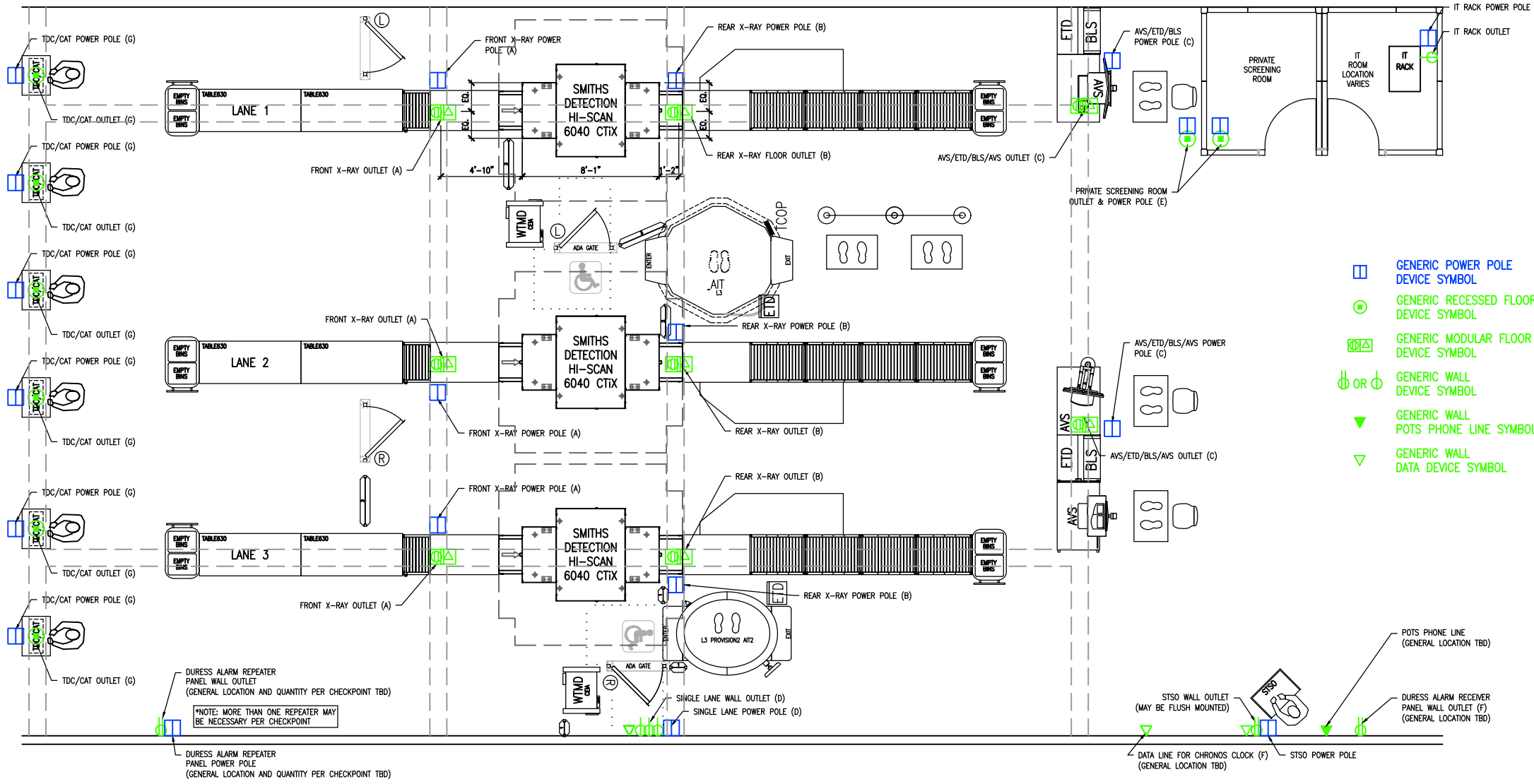
NOTES BY SYMBOL "○"

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X-RAY DEVICE LOCATIONS





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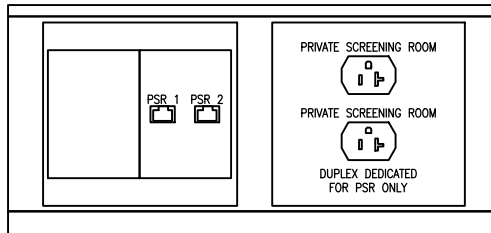
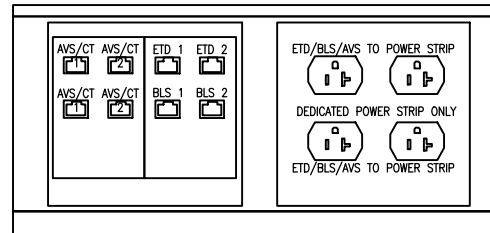
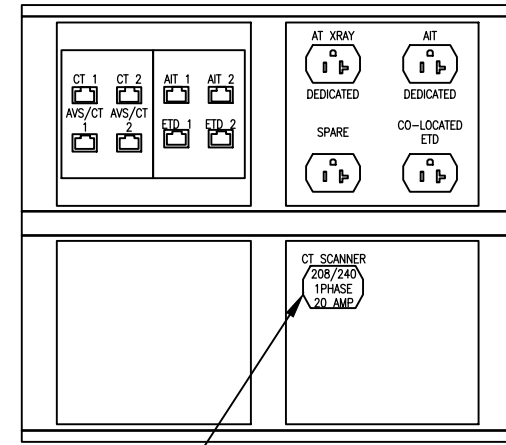
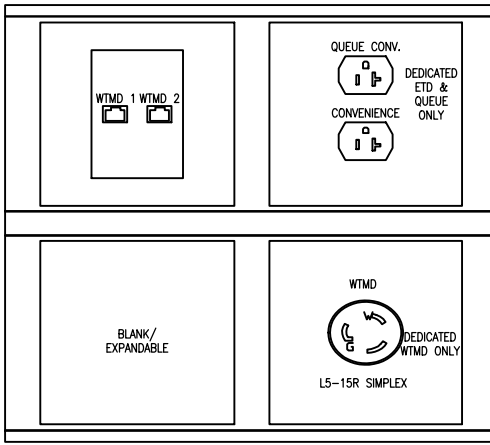
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FRONT XRAY OUTLET (A)

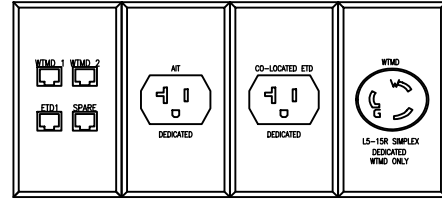
REAR XRAY OUTLET (B)

AVS/ETD/BLS/AVS/AVS (C)

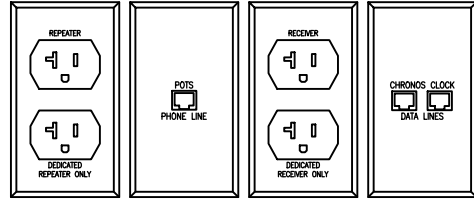
PRIVATE SCREENING ROOM (E)



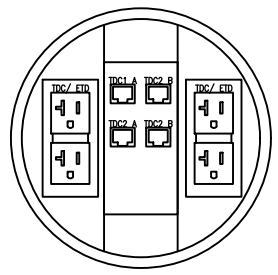
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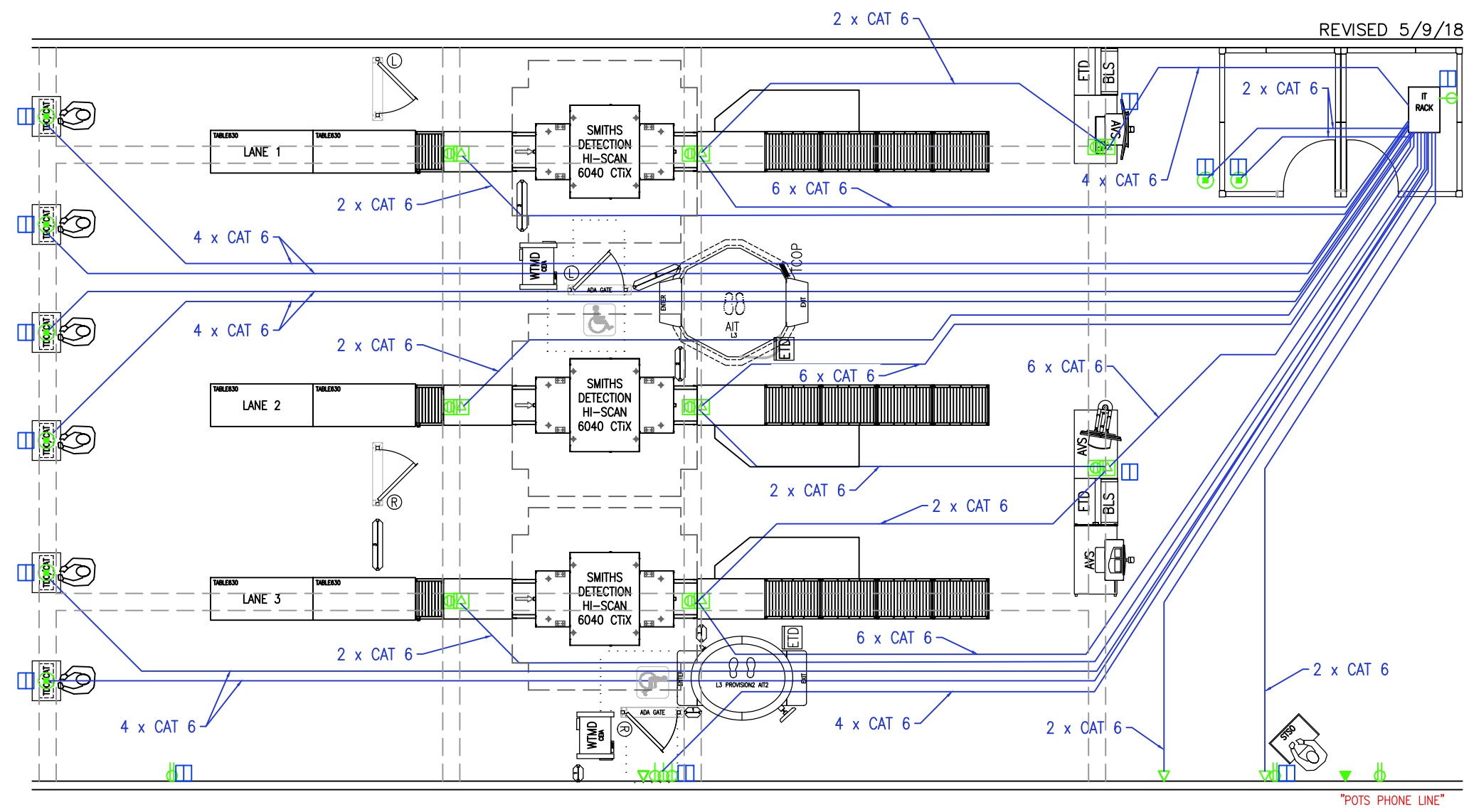
OPTIONAL 120V/ 30A, SEE OEM REQUIREMENTS



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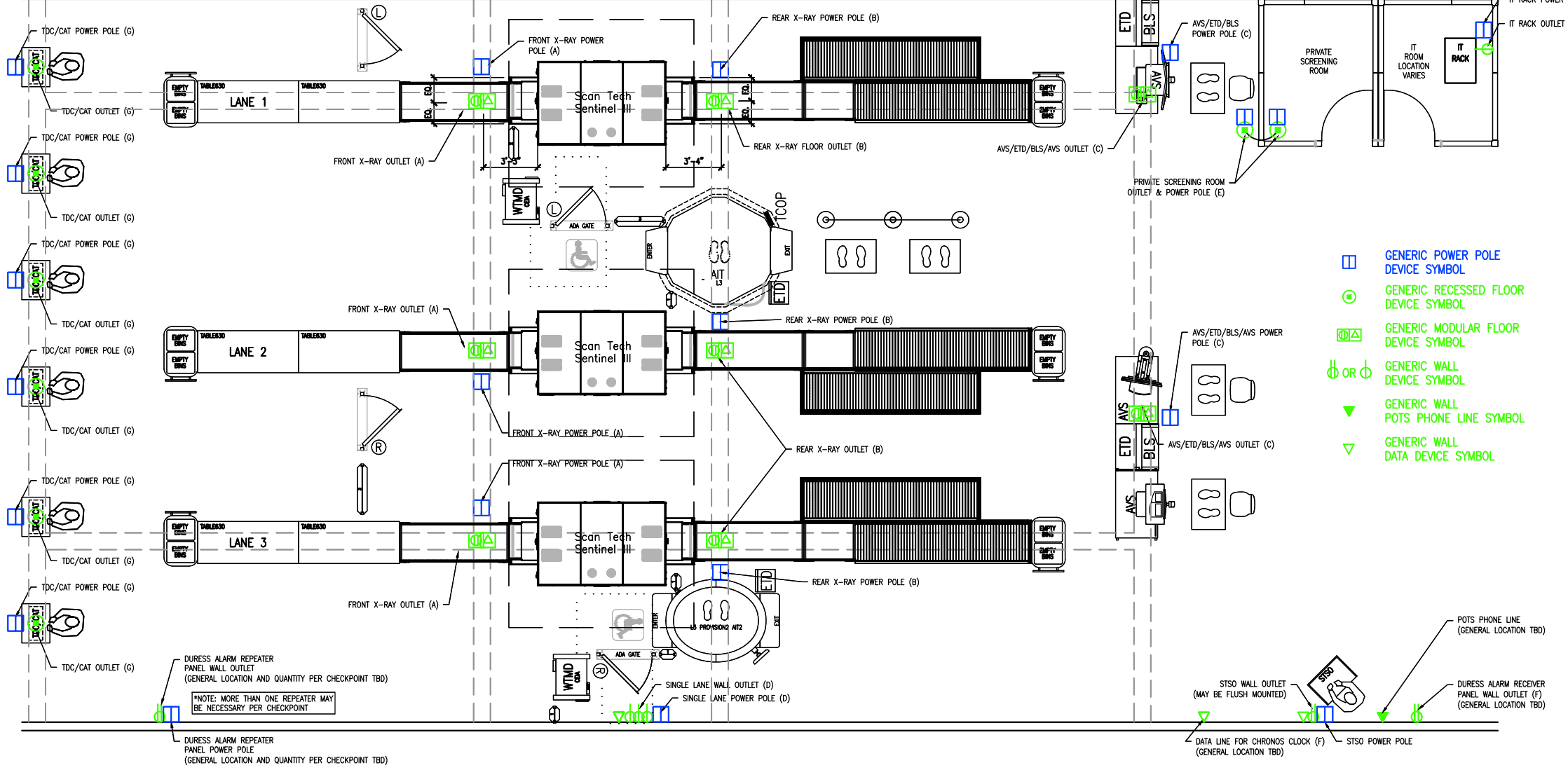
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X-RAY DEVICE LOCATIONS



STANDARD POWER/DATA LAYOUT

REVISED 5/9/18



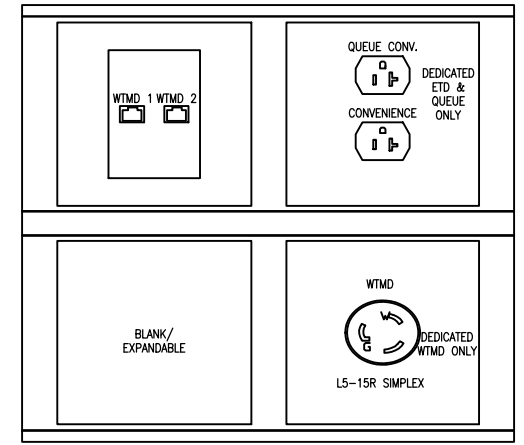
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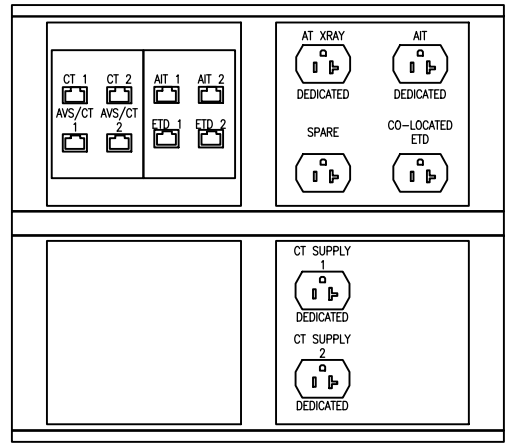
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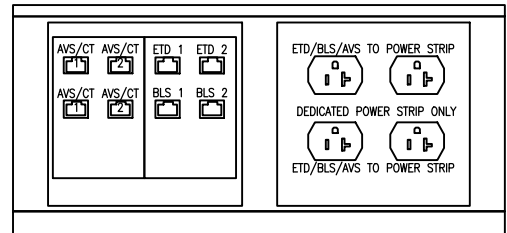
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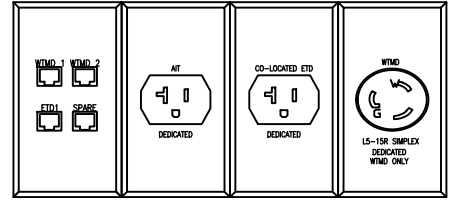
REAR XRAY OUTLET (B)



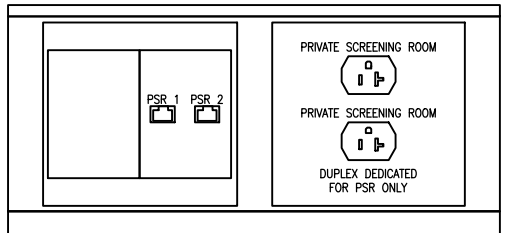
AVS/ETD/BLS/AVS/AVS (C)



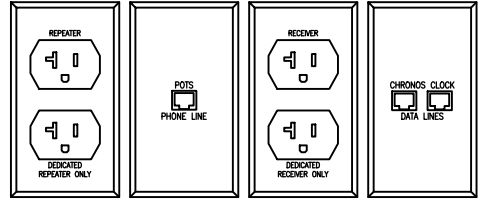
SINGLE LANE WALL (D)



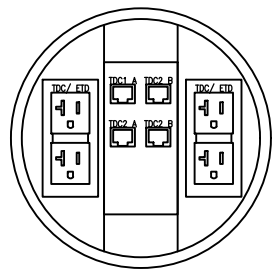
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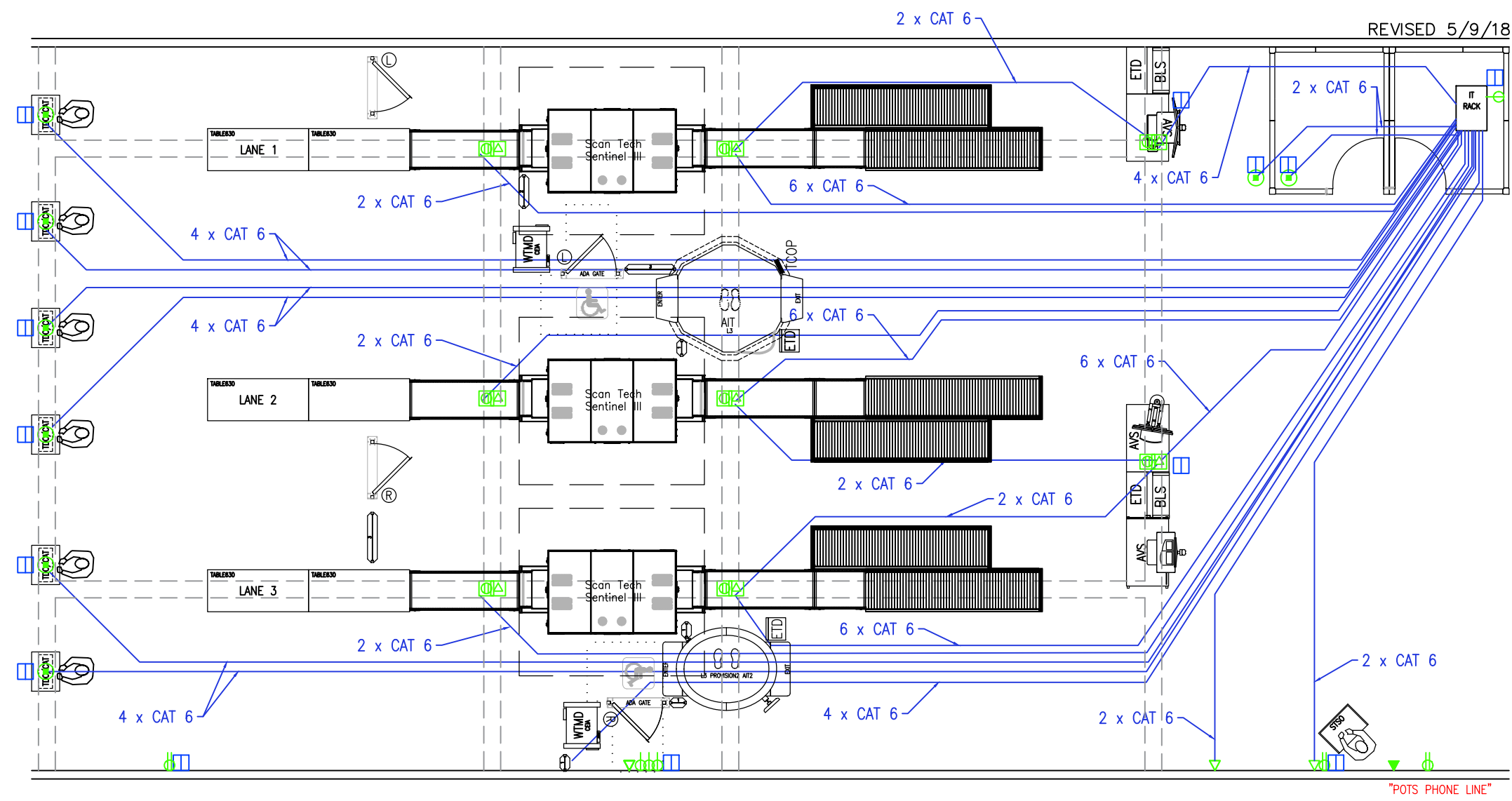
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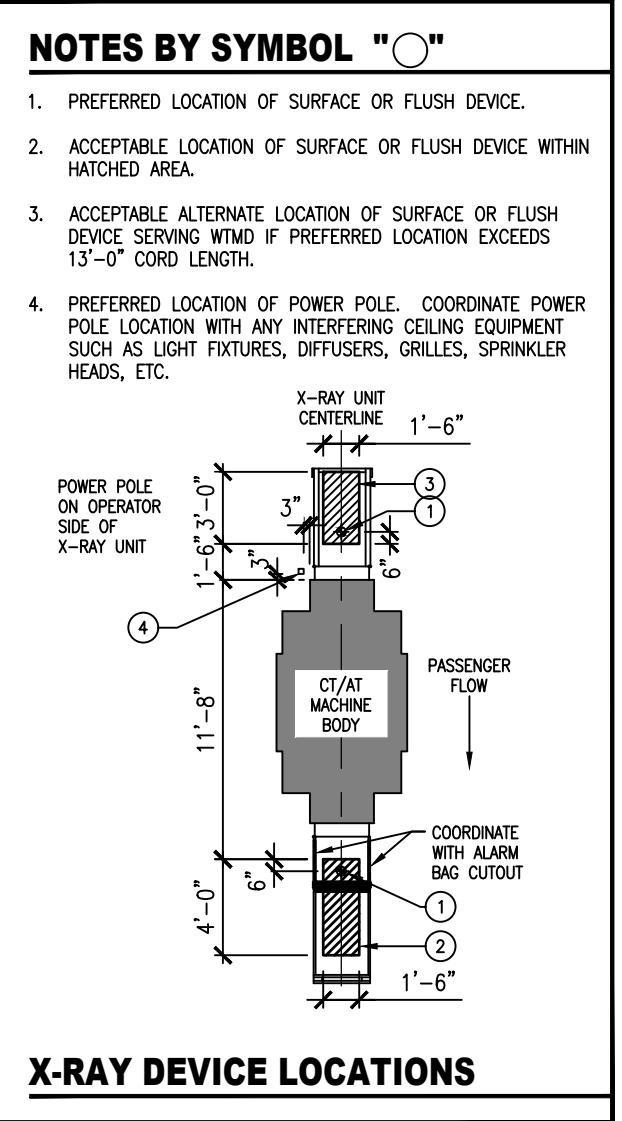
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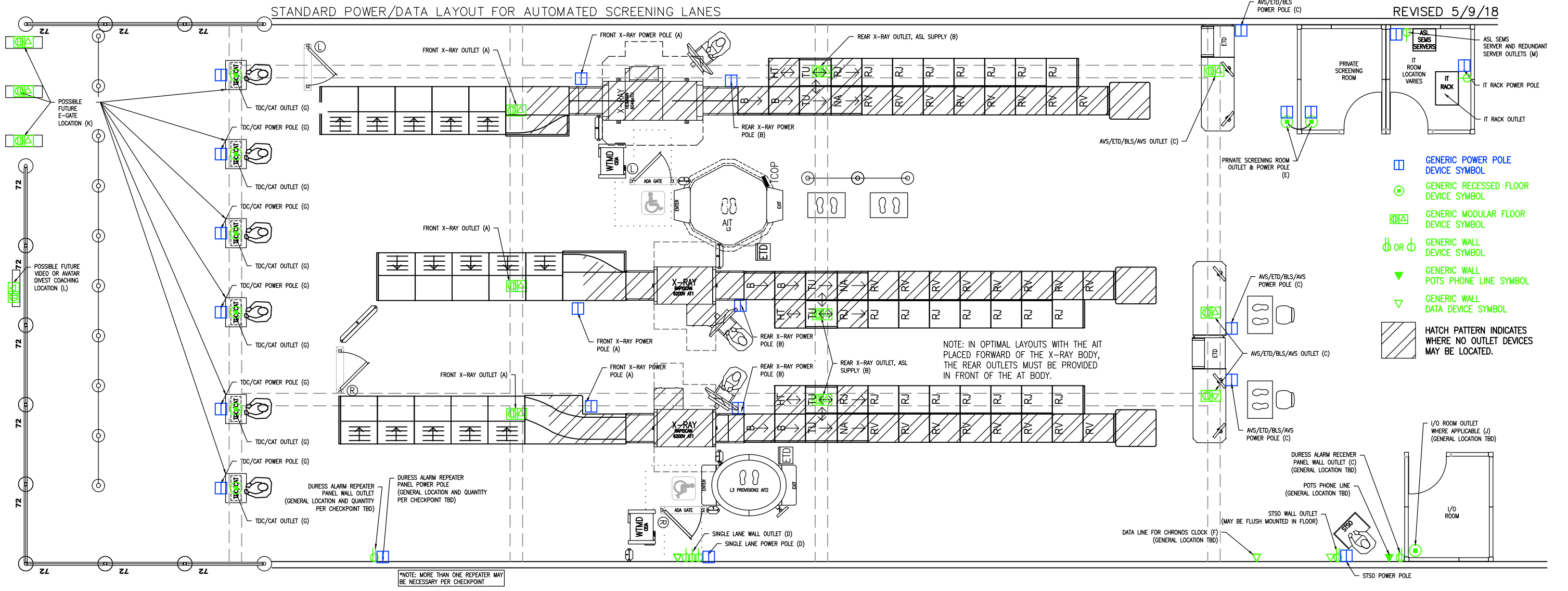
REVISED 5/9/18

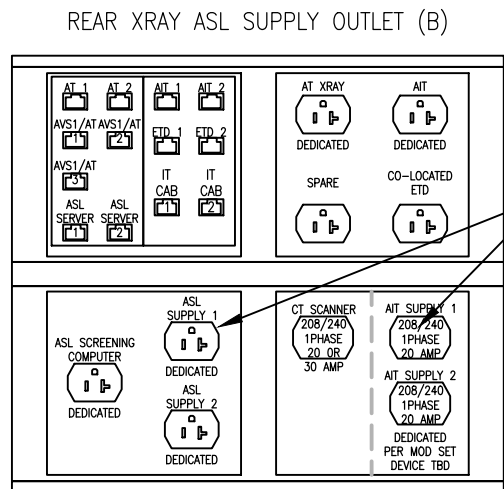
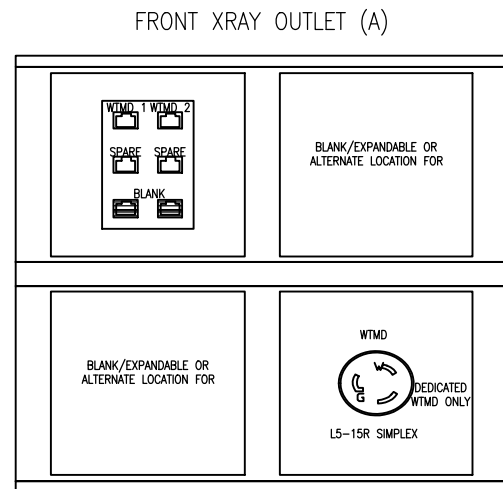


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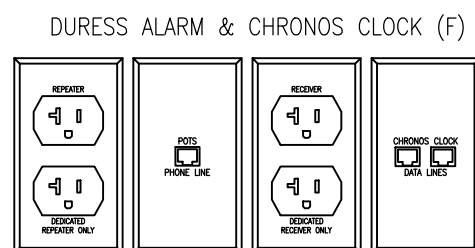
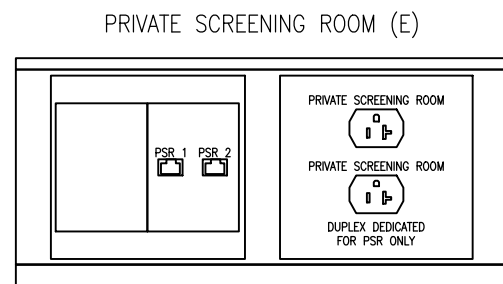
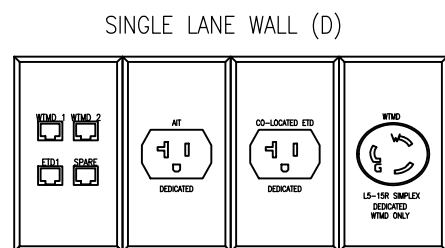
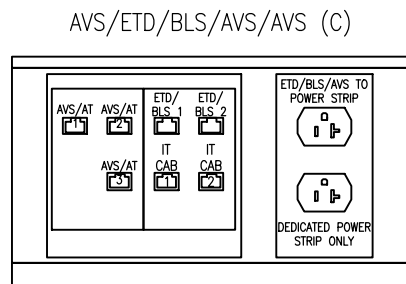
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 - "ASL" REFERS TO AUTOMATED SCREENING LANES.
 - ON SCREEN RESOLUTION, I/O, ROOM TO HAVE 1.4 WORK STATIONS PER LANE ROUNDED UP.
 - ASL SEMS SERVER TO BE LOCATED IN THE TSA IT ROOM. PROVIDE 2 CAT 6 DATA CABLES FROM ASL SEMS SERVER TO THE TSA IT CABINET FOR FUTURE USE.
 - PROVIDE GENERAL CONVENIENCE OUTLETS IN THE BEGINNING, MIDDLE AND END OF PASSENGER QUEUE.
 - LOCATION OF THE E-GATE TURNSTILES WILL BE AT BEGINNING OF THE PASSENGER QUEUE.
 - AUTOMATIC WAIT TIME INFRASTRUCTURE SHALL BE INSTALLED BASED ON THE OEM REQUIREMENTS AS SELECTED BY THE AIRPORT AUTHORITY.



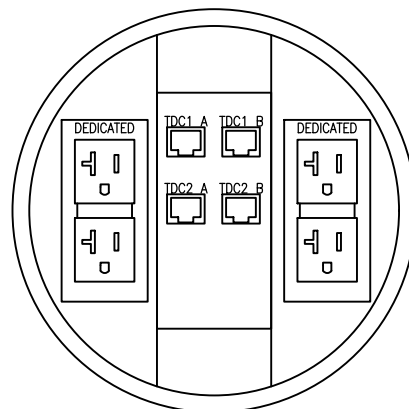


NOTE:

- UP TO 6 208/240V-20 OR 30A CIRCUITS PER MOD SETS. POWER SUPPLY CONDUIT SHOULD BE INSTALLED FOR FUTURE EQUIPMENT DEPLOYMENTS.
- POWER SUPPLY WILL BE AN ISSUE WHEN ADDING APPROXIMATELY 100AMPS PER LANE. POWER SUPPLY IN THE VICINITY OF THE CHECKPOINT SHOULD BE VERIFIED AND REQUIRED UPGRADES PLANNED. THIS INCLUDES BUT NOT LIMITED TO ADDITIONAL ROOM FOR TRANSFORMERS, DISTRIBUTION PANELS AND UPGRADES TO FACILITY ELECTRICAL SERVICE.
- VERIFY OUTLET DEVICE TYPE FOR DEDICATED CIRCUITS WITH OEM VENDOR, TYP.



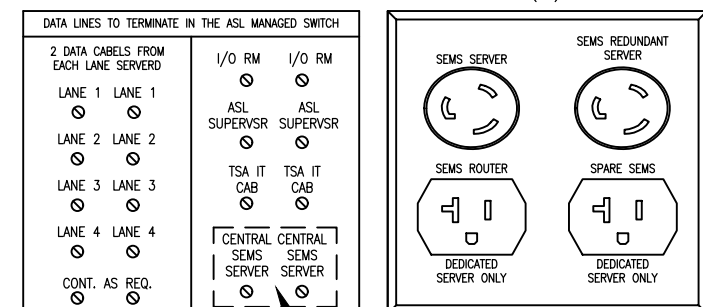
TDC [CAT/E GATE/BAT], STSO (G)
DEDICATED, 2 PER LANE FOR TDC LOCATIONS



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CT SCANNER	1	RECEPTACLE TO BE DETERMINED, PROVIDE DEDICATED 208/240 1PHASE 20 OR 30AMP
ASL Supply 1	1	PROVIDE DEDICATED 20A SPLIT WIRED DUPLEX RECEPTACLE
ASL Supply 2	1	PROVIDE DEDICATED 20A SPLIT WIRED DUPLEX RECEPTACLE
AIT	1	PROVIDE SIMPLEX RECEPTACLE DEDICATED AT EACH LANE
AIT Supply 1	1	PROVIDE DEDICATED 208/240 20A, SHARED PER MOD SET
AIT Supply 2	1	PROVIDE DEDICATED 208/240 20A, SHARED PER MOD SET
CO-LOCATED ETD	2	
AVS/AVS/ETD/BLS/AVS	1 SHARED LOCATION/ DEDICATED	OUTLET(S) POWERS RELOCATEABLE POWER TAP/ PROVIDE 20AMP CIRCUIT PER LANE
PRIVATE SCREENING ROOM	1	ONE OUTLET INSIDE AND ONE OUTLET OUTSIDE OF PRIVATE SCREENING ROOM
STSO PODIUM	1	PROVIDE DUPLEX OUTLET
IT CABINET	1	30A L5-30R RECEPTACLE
ASL SEMS SERVER	1	30A DEDICATED
ASL SEMS REDUNDANT SERVER	1	30A DEDICATED, NOT ON SAME PANEL AS THE MAIN SERVER, ON BACKUP POWER
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
E-GATE/BATT	TBD	TBD
PASSENGER PREP/AVATAR	TBD	TBD

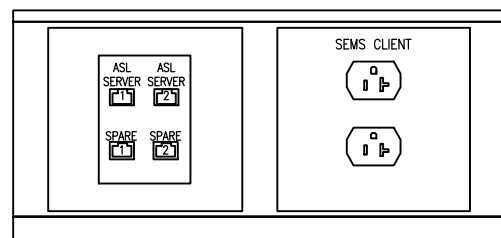
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ASL IT ROOM SEMS COLLOCATED SERVER OR MANAGED SWITCH FOR CENTRAL SERVER-- (M)

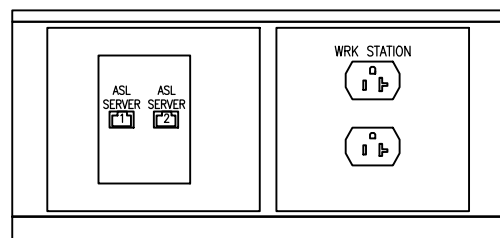


FOR CENTRAL SEMS SERVER SOLUTION CAT6 OR SINGLE MODE FIBER

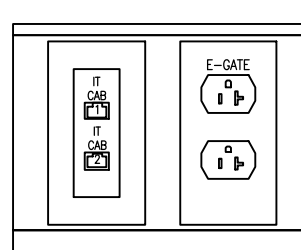
ASL SUPERVISOR CONTROL LOCATION LOCATED AT SUPERVISOR OFFICE (H)
DEDICATED
SEMS CLIENT PC ONLY (2 MAX)



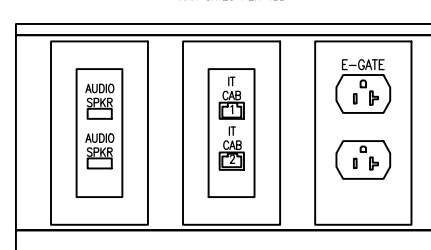
I/O ROOM (J)
DEDICATED
WORK STATIONS ONLY (4 MAX)



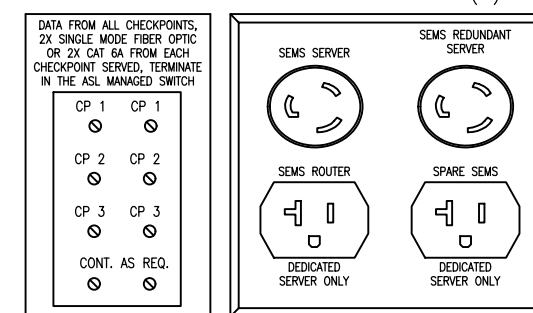
FUTURE E-GATE/BAT (K)
DEDICATED
MAX GATES PER TBD



FUTURE PASSENGER PREP/AVATAR (L)
DEDICATED
MAX GATES PER TBD



ASL SEMS SERVER - CENTRALIZED (N)

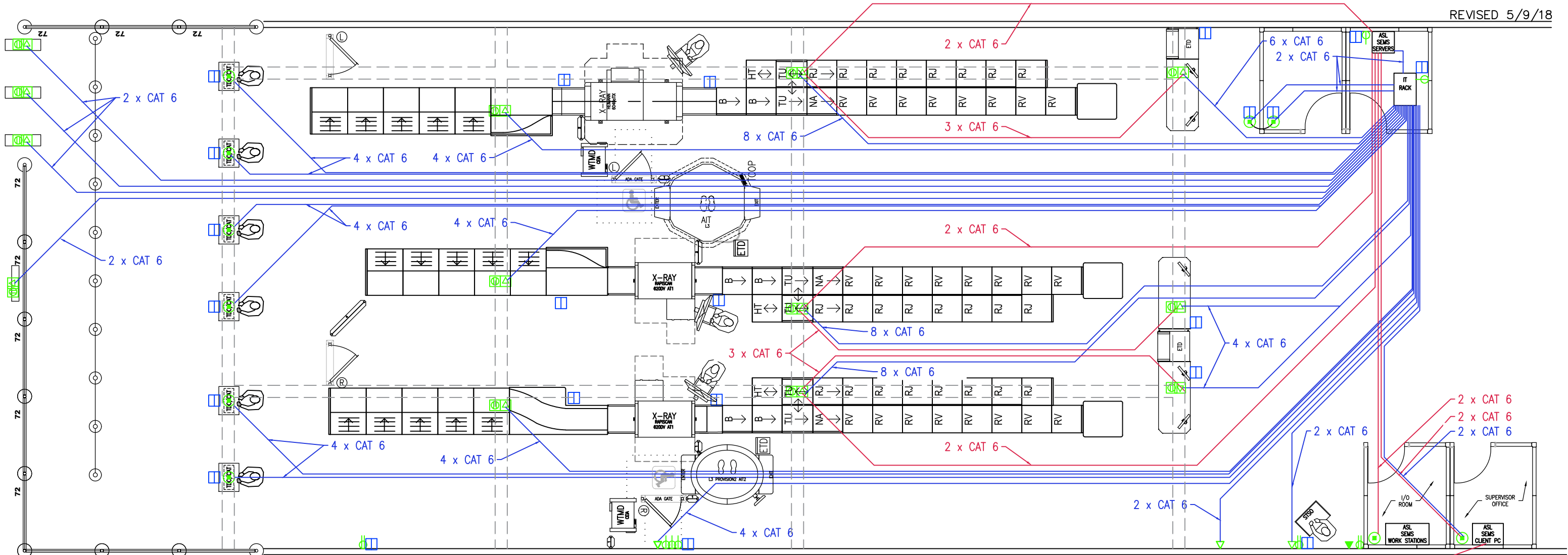


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 8. PROVIDE GENERAL CONVENIENCE OUTLETS IN THE BEGINNING, MIDDLE AND END OF PASSENGER QUEUE.
 9. LOCATION OF THE E-GATE TURNSTILES WILL BE AT BEGINNING OF THE PASSENGER QUEUE.
 10. AUTOMATIC WAIT TIME INFRASTRUCTURE SHALL BE INSTALLED BASED ON THE OEM REQUIREMENTS AS SELECTED BY THE AIRPORT AUTHORITY.
 11. AVS DATA LINES FROM THE REAR XRAY OUTLET MAY ROUTE THRU THE IT ROOM IF NECESSARY.

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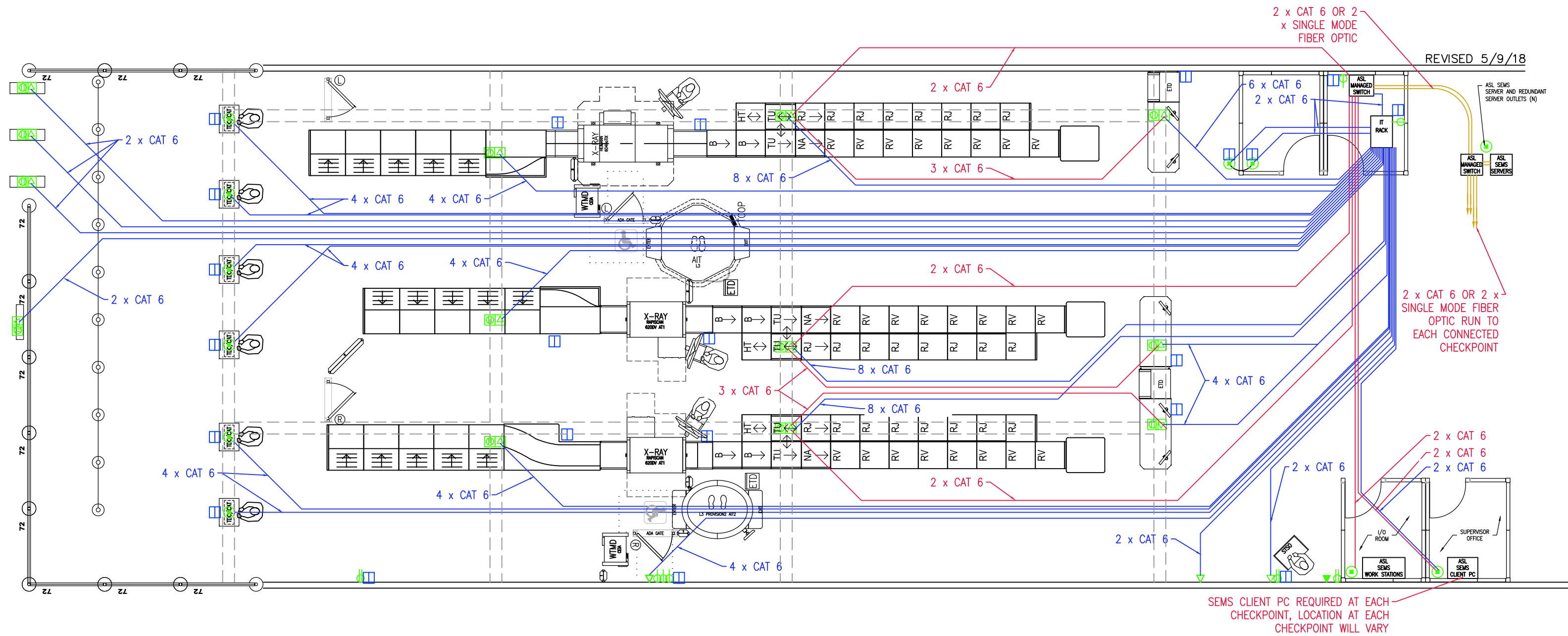
SEMS CLIENT PC REQUIRED AT EACH CHECKPOINT, LOCATION AT EACH CHECKPOINT WILL VARY



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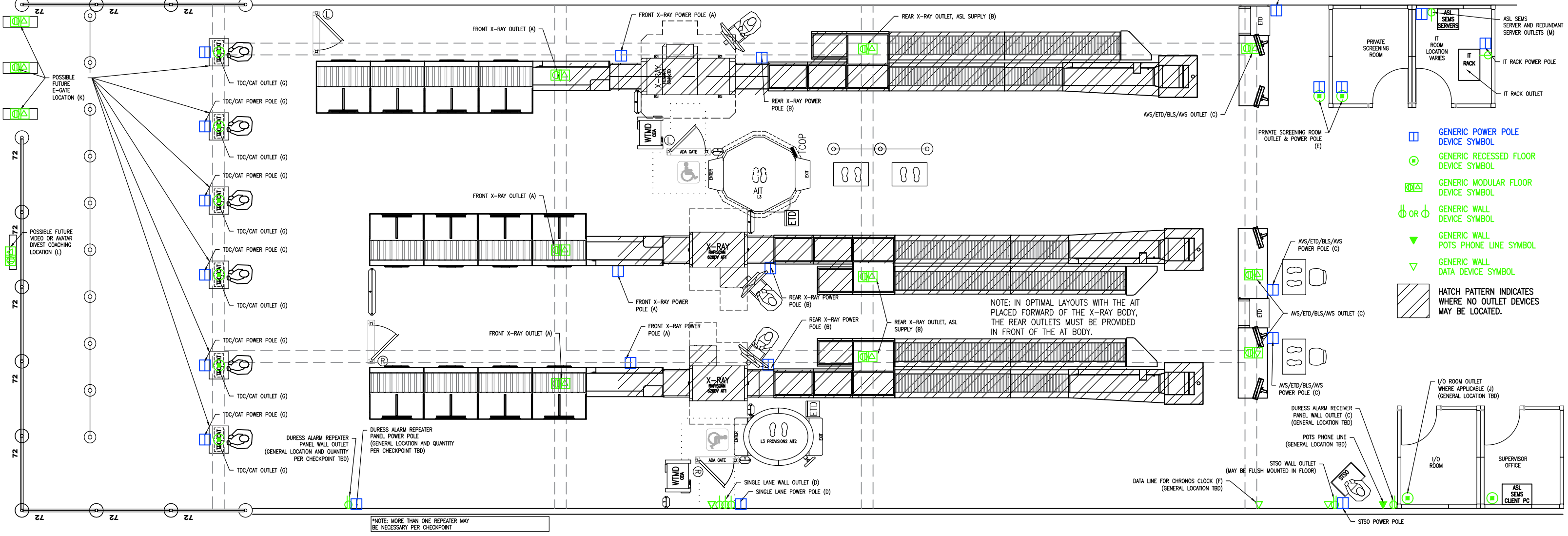
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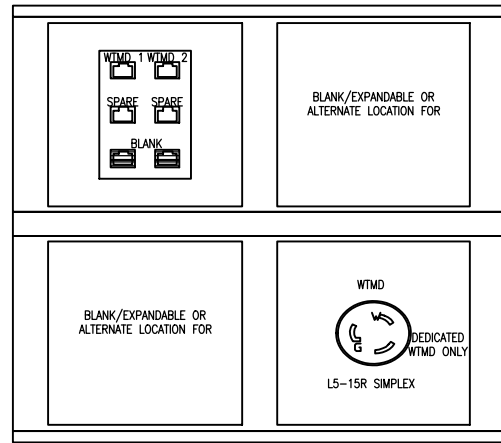
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STANDARD POWER/DATA LAYOUT FOR AUTOMATED SCREENING LANES

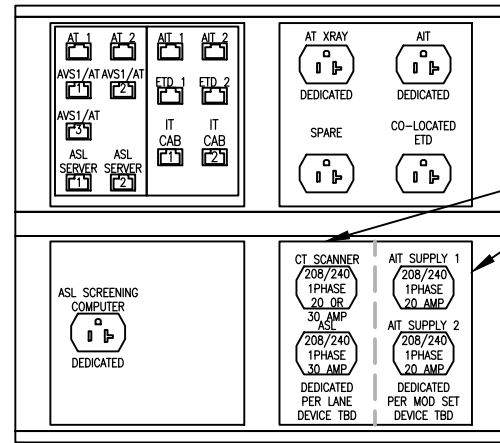
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FRONT XRAY OUTLET (A)



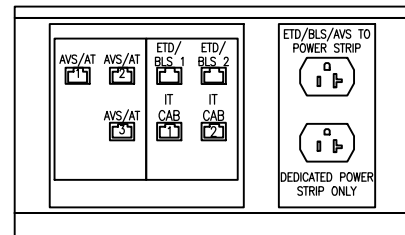
REAR XRAY ASL SUPPLY OUTLET (B)



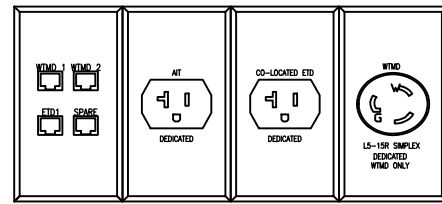
NOTE:

- UP TO 6 208/240V-20 OR 30A CIRCUITS PER MOD SETS. POWER SUPPLY CONDUIT SHOULD BE INSTALLED FOR FUTURE EQUIPMENT DEPLOYMENTS.
- POWER SUPPLY WILL BE AN ISSUE WHEN ADDING APPROXIMATELY 100AMPS PER LANE. POWER SUPPLY IN THE VICINITY OF THE CHECKPOINT SHOULD BE VERIFIED AND REQUIRED UPGRADES PLANNED. THIS INCLUDES BUT NOT LIMITED TO ADDITIONAL ROOM FOR TRANSFORMERS, DISTRIBUTION PANELS AND UPGRADES TO FACILITY ELECTRICAL SERVICE.
- VERIFY OUTLET DEVICE TYPE FOR DEDICATED CIRCUITS WITH OEM VENDOR, TYP.

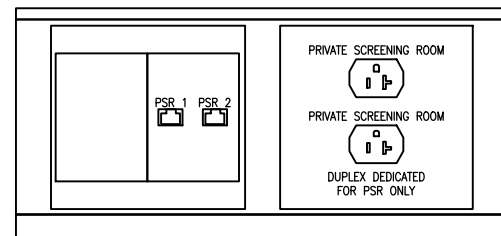
AVS/ETD/BLS/AVS/AVS (C)



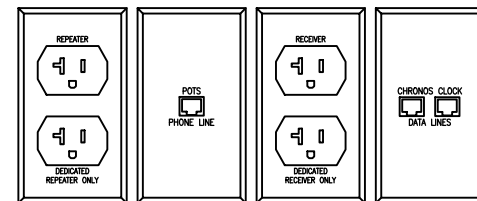
SINGLE LANE WALL (D)



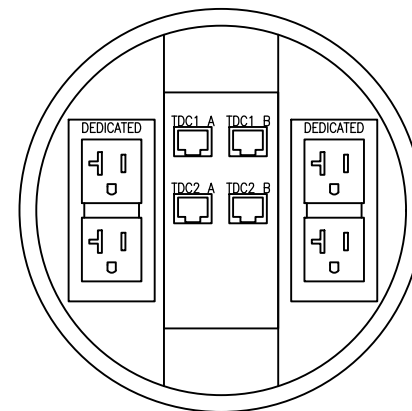
PRIVATE SCREENING ROOM (E)



DURESS ALARM & CHRONOS CLOCK (F)



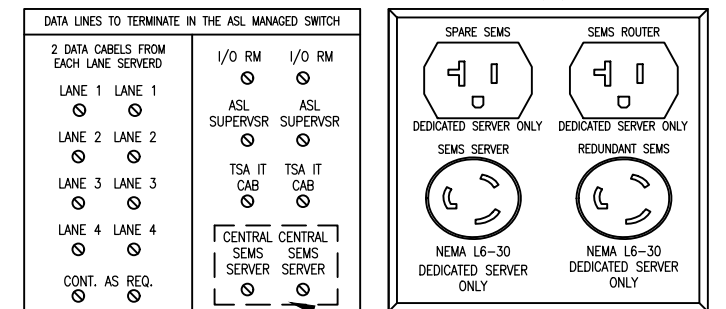
TDC [CAT/E GATE/BAT], STSO (G)
DEDICATED, 2 PER LANE FOR TDC LOCATIONS



POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC [CAT/E GATE/BAT]	1	1 20A CIRCUIT DEDICATED, 2 LOCATIONS PER LANE
WTMD	10	L5-15R SIMPLEX RECEPTACLE
AT X-RAY	1	PROVIDE SIMPLEX RECEPTACLE
CT SCANNER	1	RECEPTACLE TO BE DETERMINED, PROVIDE DEDICATED 208/240 1PHASE 20 OR 30AMP
ASL Supply	1	DEDICATED 208/240 1PHASE 30AMP
ASL SCREENING COMPUTER	1	1 20A CIRCUIT PER LANE
AIT	1	PROVIDE SIMPLEX RECEPTACLE DEDICATED AT EACH LANE
AIT Supply 1	1	PROVIDE DEDICATED 208/240 20A, SHARED PER MOD SET
AIT Supply 2	1	PROVIDE DEDICATED 208/240 20A, SHARED PER MOD SET
CO-LOCATED ETD	2	
AVS/AVS/ETD/BLS/AVS	1 SHARED LOCATION/ DEDICATED	OUTLET(S) POWERS RELOCATEABLE POWER TAP/ PROVIDE 20AMP CIRCUIT PER LANE
PRIVATE SCREENING ROOM	1	ONE OUTLET INSIDE AND ONE OUTLET OUTSIDE OF PRIVATE SCREENING ROOM
STSO PODIUM	1	PROVIDE DUPLX OUTLET
IT CABINET	1	30A L5-30R RECEPTACLE
ASL SEMS SERVER	1	NEMA L6-30 30A DEDICATED
ASL SEMS REDUNDANT SERVER	1	30A DEDICATED, NOT ON SAME PANEL AS THE MAIN SERVER, ON BACKUP POWER
DURESS ALARM RECEIVER PANEL	2	CIRCUITS SHARED CAN BE MORE THAN TWO THROUGHOUT CHECKPOINT BUT ONLY CAN INSTALL TWO REPEATERS PER DUPLX
DURESS ALARM REPEATER PANEL	2	CIRCUITS SHARED CAN BE MORE THAN TWO THROUGHOUT CHECKPOINT BUT ONLY CAN INSTALL TWO PER DUPLX
E-GATE/BATT	TBD	TBD
PASSENGER PREP/AVATAR	TBD	TBD

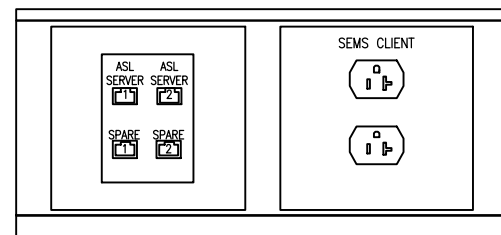
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ASL IT ROOM SEMS COLLOCATED SERVER OR MANAGED SWITCH FOR CENTRAL SERVER- (M)

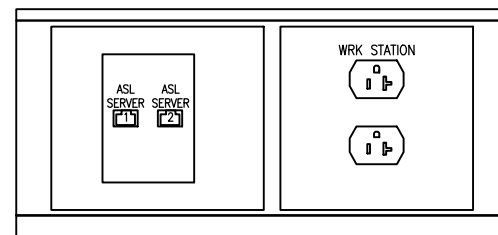


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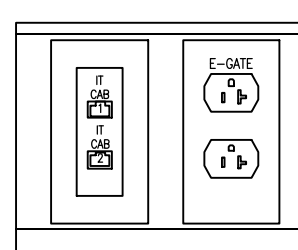
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DEDICATED
SEMS CLIENT PC ONLY (2 MAX)



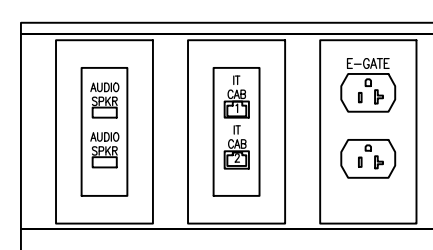
I/O ROOM (J)
DEDICATED
WORK STATIONS ONLY (4 MAX)



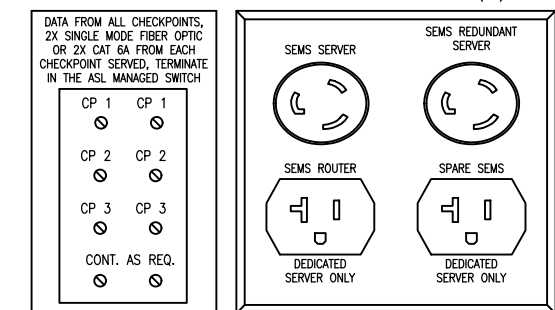
FUTURE E-GATE/BAT (K)
DEDICATED
MAX GATES PER TBD



FUTURE PASSENGER PREP/AVATAR (L)
DEDICATED
MAX GATES PER TBD



ASL SEMS SERVER - CENTRALIZED (N)



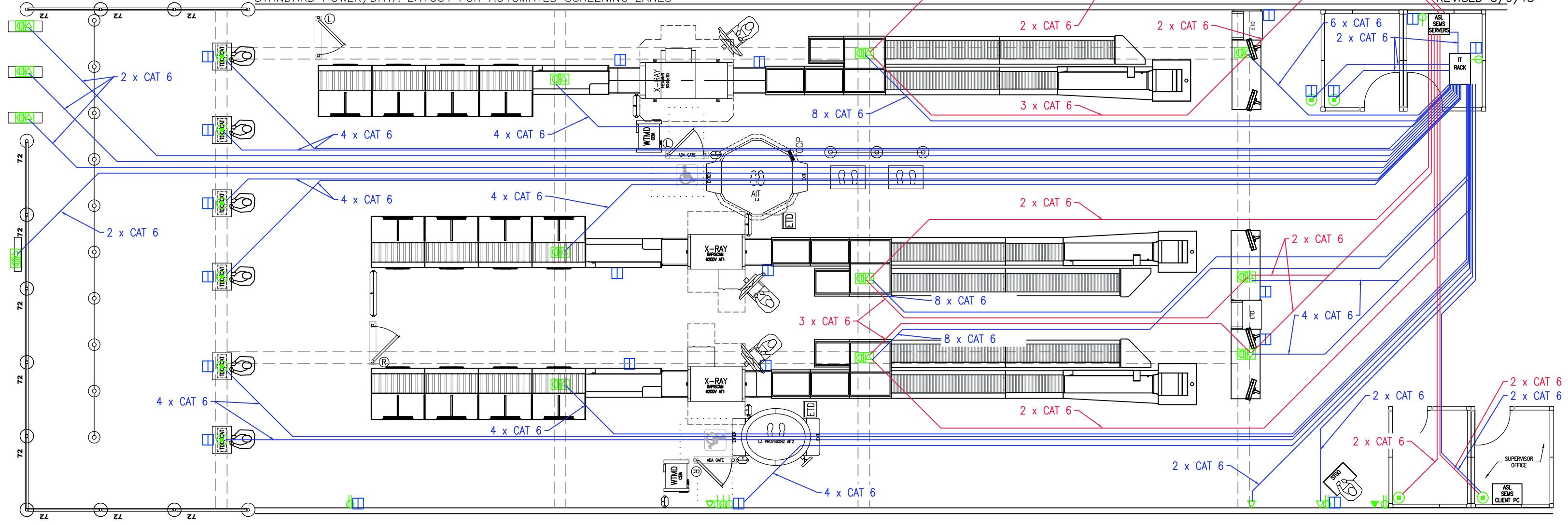
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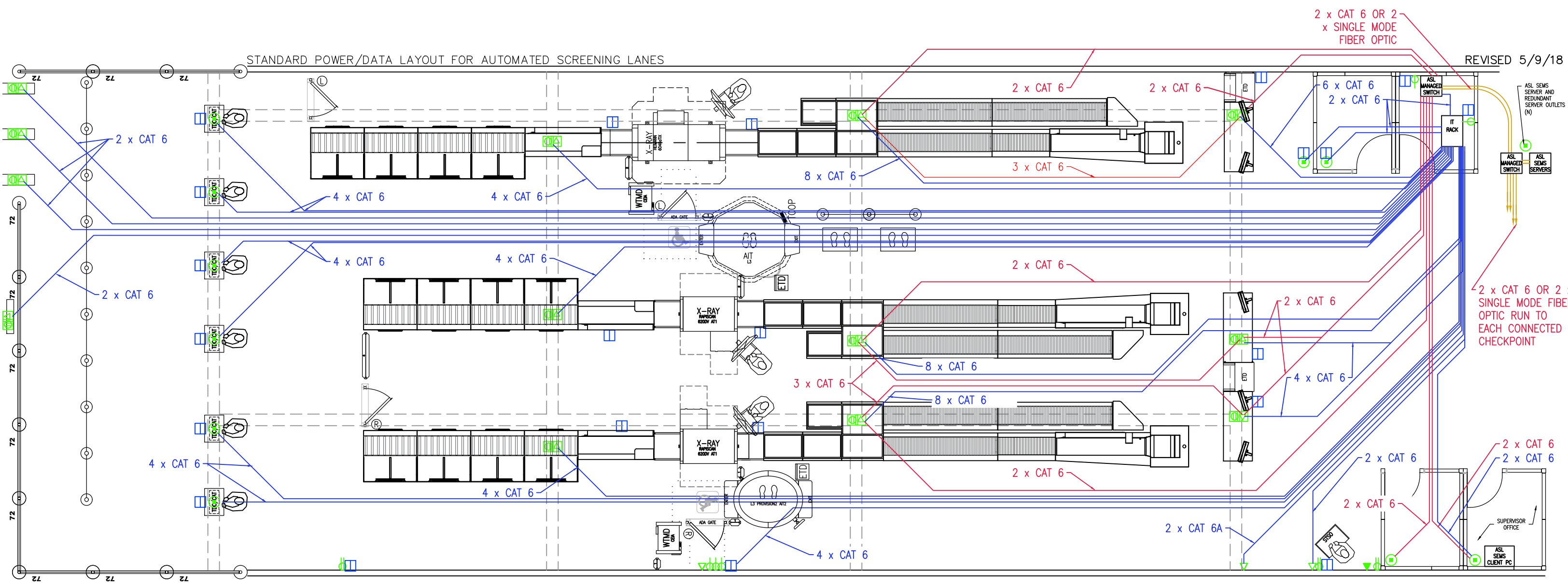
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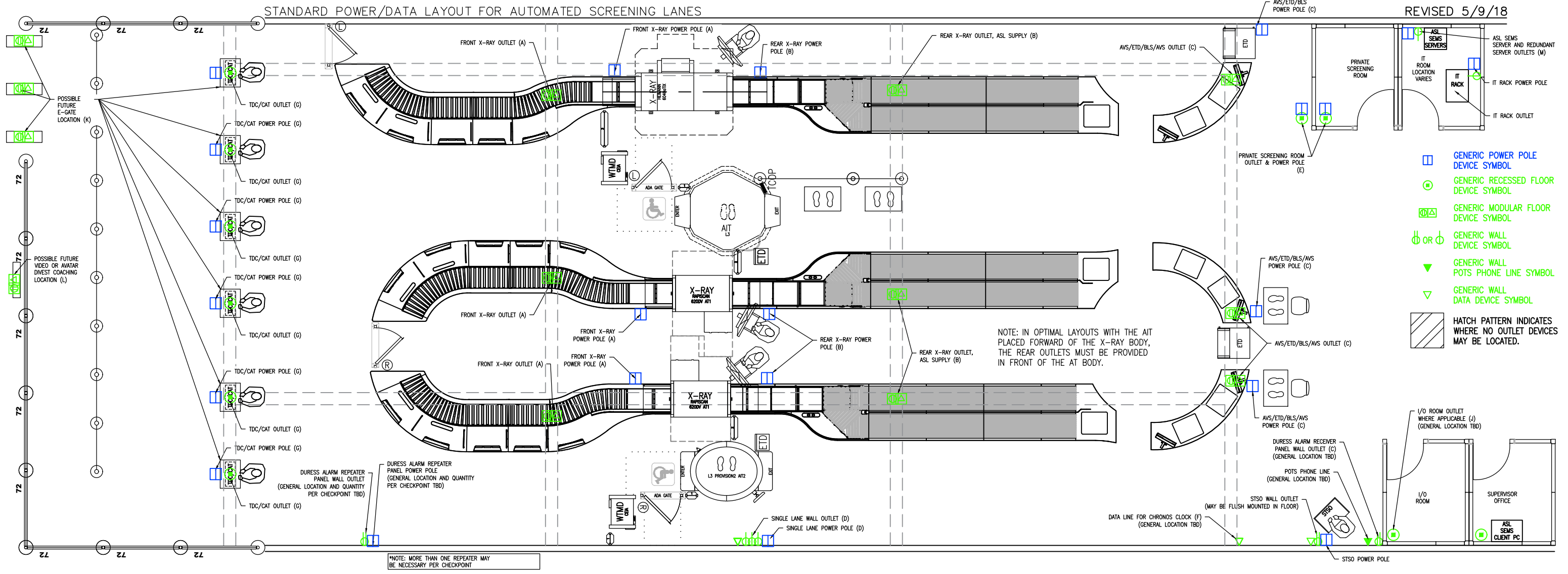
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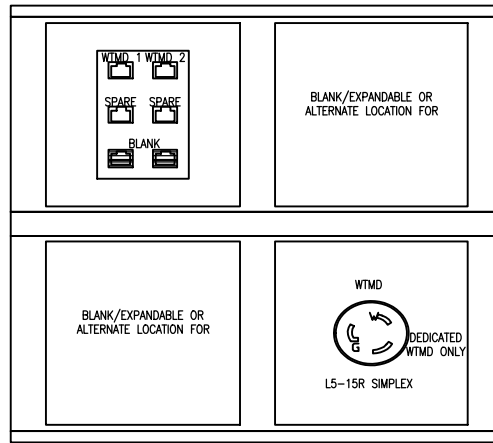
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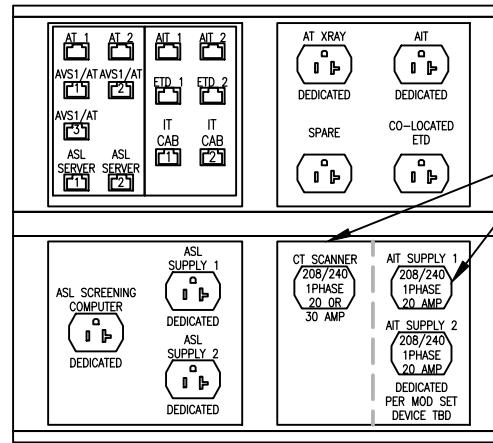
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FRONT XRAY OUTLET (A)



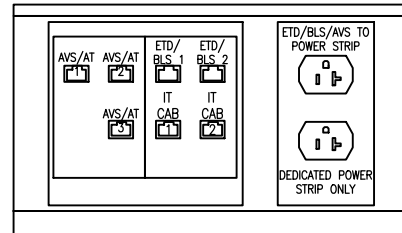
REAR XRAY ASL SUPPLY OUTLET (B)



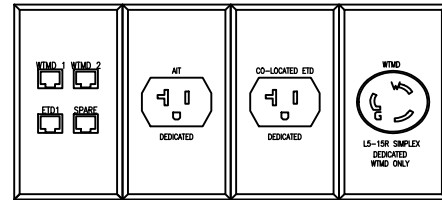
NOTE:

1. UP TO 6 208/240V-20 OR 30A CIRCUITS PER MOD SETS. POWER SUPPLY CONDUIT SHOULD BE INSTALLED FOR FUTURE EQUIPMENT DEPLOYMENTS.
2. POWER SUPPLY WILL BE AN ISSUE WHEN ADDING APPROXIMATELY 100AMPS PER LANE. POWER SUPPLY IN THE VICINITY OF THE CHECKPOINT SHOULD BE VERIFIED AND REQUIRED UPGRADES PLANNED. THIS INCLUDES BUT NOT LIMITED TO ADDITIONAL ROOM FOR TRANSFORMERS, DISTRIBUTION PANELS AND UPGRADES TO FACILITY ELECTRICAL SERVICE.
3. VERIFY OUTLET DEVICE TYPE FOR DEDICATED CIRCUITS WITH OEM VENDOR, TYP.

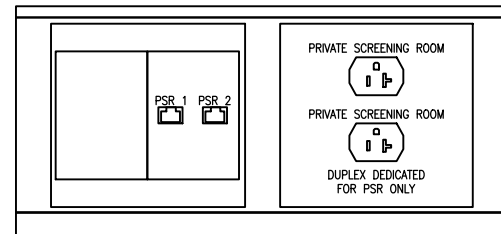
AVS/ETD/BLS/AVS/AVS (C)



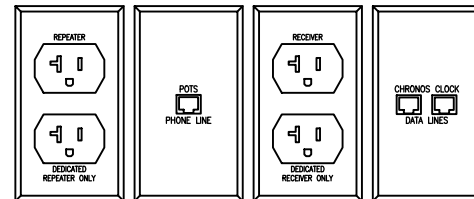
SINGLE LANE WALL (D)



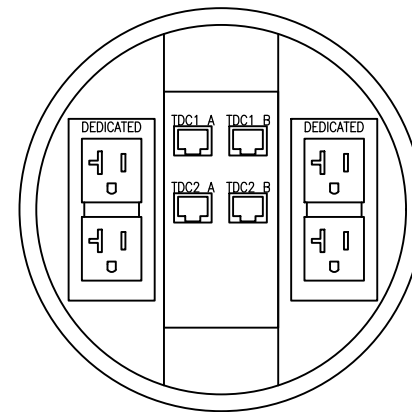
PRIVATE SCREENING ROOM (E)



DURESS ALARM & CHRONOS CLOCK (F)



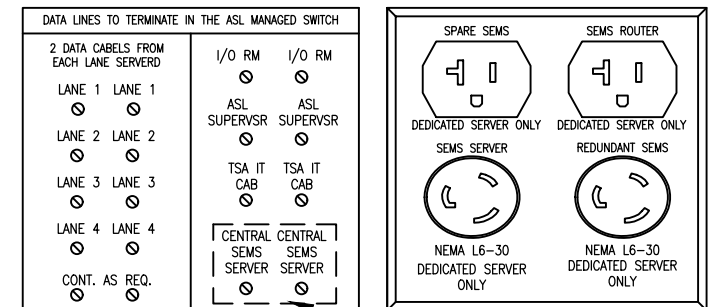
TDC [CAT/E GATE/BAT], STSO (G)
DEDICATED, 2 PER LANE FOR TDC LOCATIONS



POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC [CAT/E GATE/BAT]	1	1 20A CIRCUIT DEDICATED, 2 LOCATIONS PER LANE
WTMD	10	L5-15R SIMPLEX RECEPTACLE
AT X-RAY	1	PROVIDE SIMPLEX RECEPTACLE
CT SCANNER	1	RECEPTACLE TO BE DETERMINED, PROVIDE DEDICATED 208/240 1PHASE 20 OR 30AMP
ASL Supply	1	2 x DEDICATED 20AMP PER LANE
ASL SCREENING COMPUTER	1	1 20A CIRCUIT PER LANE
AIT	1	PROVIDE SIMPLEX RECEPTACLE DEDICATED AT EACH LANE
AIT Supply 1	1	PROVIDE DEDICATED 208/240 20A, SHARED PER MOD SET
AIT Supply 2	1	PROVIDE DEDICATED 208/240 20A, SHARED PER MOD SET
CO-LOCATED ETD	2	
AVS/AVS/ETD/BLS/AVS	1 SHARED LOCATION/ DEDICATED	OUTLET(S) POWERS RELOCATEABLE POWER TAP/ PROVIDE 20AMP CIRCUIT PER LANE
PRIVATE SCREENING ROOM	1	ONE OUTLET INSIDE AND ONE OUTLET OUTSIDE OF PRIVATE SCREENING ROOM
STSO PODIUM	1	PROVIDE DUPLEX OUTLET
IT CABINET	1	30A L5-30R RECEPTACLE
ASL SEMS SERVER	1	NEMA L6-30 30A DEDICATED
ASL SEMS REDUNDANT SERVER	1	30A DEDICATED, NOT ON SAME PANEL AS THE MAIN SERVER, ON BACKUP POWER
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
E-GATE/BATT	TBD	TBD
PASSENGER PREP/AVATAR	TBD	TBD

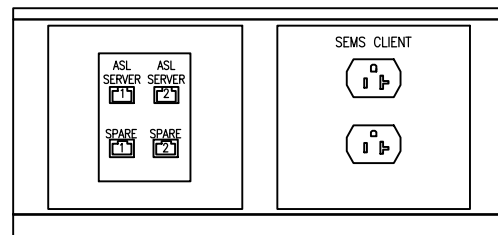
DEVICE LOCATIONS ARE SUBJECT TO CHANGE AND SHOULD BE VERIFIED PRIOR TO INSTALL
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THE IT CABINET SHALL BE A STANDARD DESIGNED 26U TYPE WALL OR FLOOR MOUNT RACK ENCLOSURE, RECOMMENDED DEPTH OF 32"

ASL IT ROOM SEMS COLLOCATED SERVER OR MANAGED SWITCH FOR CENTRAL SERVER- (M)

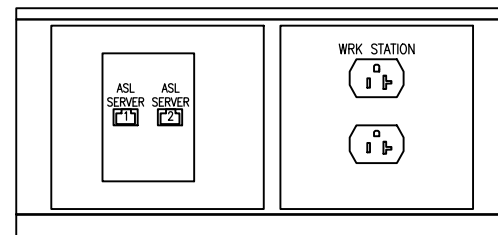


FOR CENTRAL SEMS SERVER SOLUTION CAT6 OR SINGLE MODE FIBER

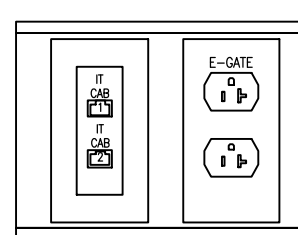
ASL SUPERVISOR CONTROL LOCATION LOCATED AT SUPERVISOR OFFICE (H)
DEDICATED SEMS CLIENT PC ONLY (2 MAX)



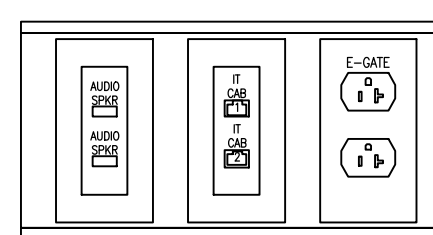
I/O ROOM (J)
DEDICATED WORK STATIONS ONLY (4 MAX)



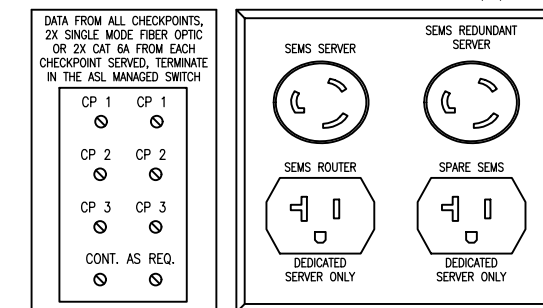
FUTURE E-GATE/BAT (K)
DEDICATED MAX GATES PER TBD



FUTURE PASSENGER PREP/AVATAR (L)
DEDICATED MAX GATES PER TBD



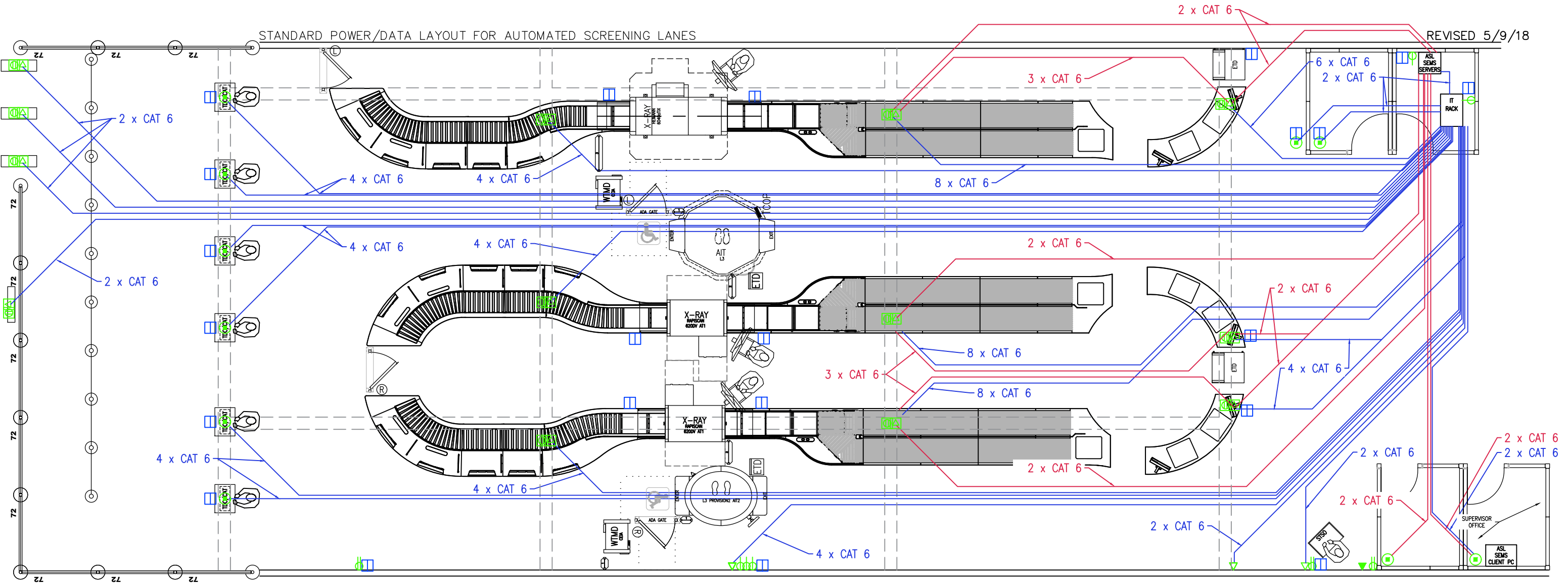
ASL SEMS SERVER - CENTRALIZED (N)



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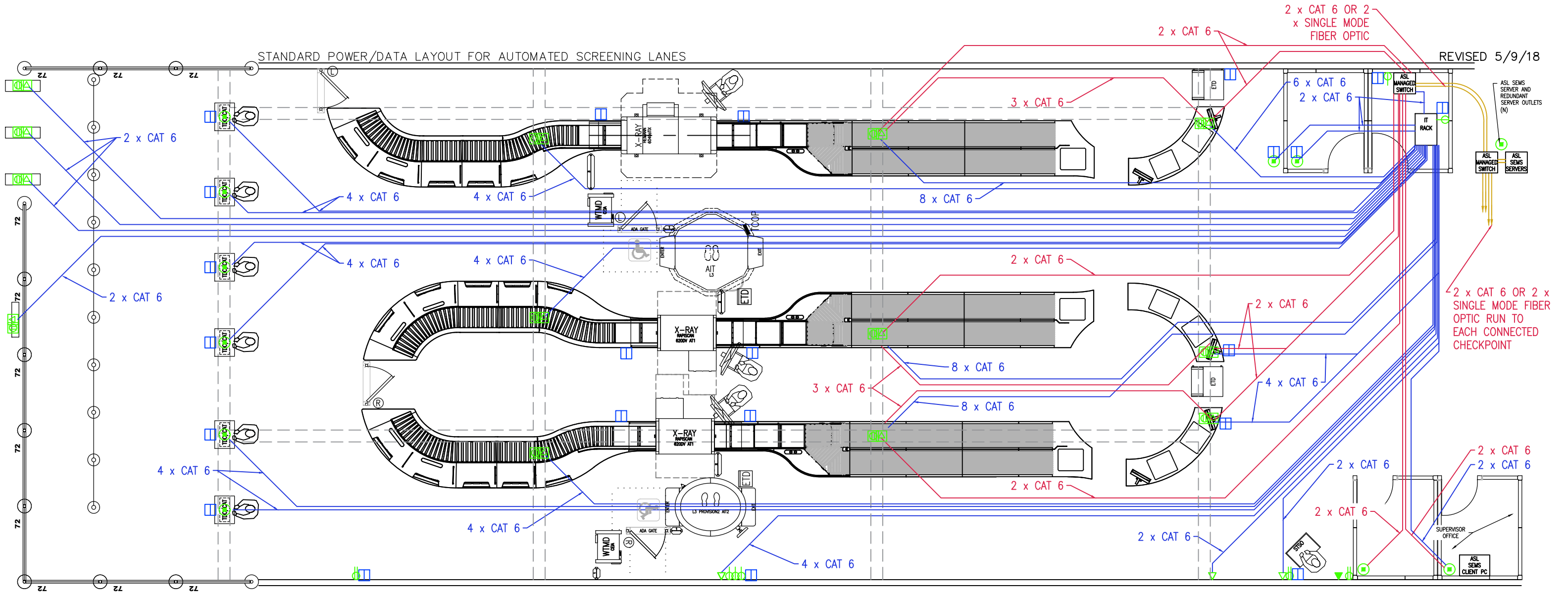
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 2. EACH EQUIPMENT LOCATION SHALL UTILIZE EITHER FLOOR OUTLETS OR POWER POLES, BUT NOT BOTH TYPES OF POWER/DATA DEVICES (SELECTION DEPENDS ON AIRPORT BUILDING CONSTRUCTION.)
 3. IT IS RECOMMENDED THAT THE PRIVATE SCREENING ROOM, IT ROOM, AND THE STSO PODIUM BE BUILT INTO THE SPACE OF THE AIRPORT.
 4. POWER/DATA DEVICES SHOWN ARE REPRESENTATIVE OF THE TYPICAL OUTLETS REQUIRED, REFER TO THE CHECKPOINT DESIGN GUIDE FOR ALTERNATIVE TYPES OF POWER/DATA DEVICES (POWER POLES, MODULAR BOXES, ETC.)
 5. "ASL" REFERS TO AUTOMATED SCREENING LANES.
 6. ON SCREEN RESOLUTION, I/O, ROOM TO HAVE 1.4 WORK STATIONS PER LANE ROUNDED UP.
 7. ASL SEMS SERVER TO BE LOCATED IN THE TSA IT ROOM. PROVIDE 2 CAT 6 DATA CABLES FROM ASL SEMS SERVER TO THE TSA IT CABINET FOR FUTURE USE.
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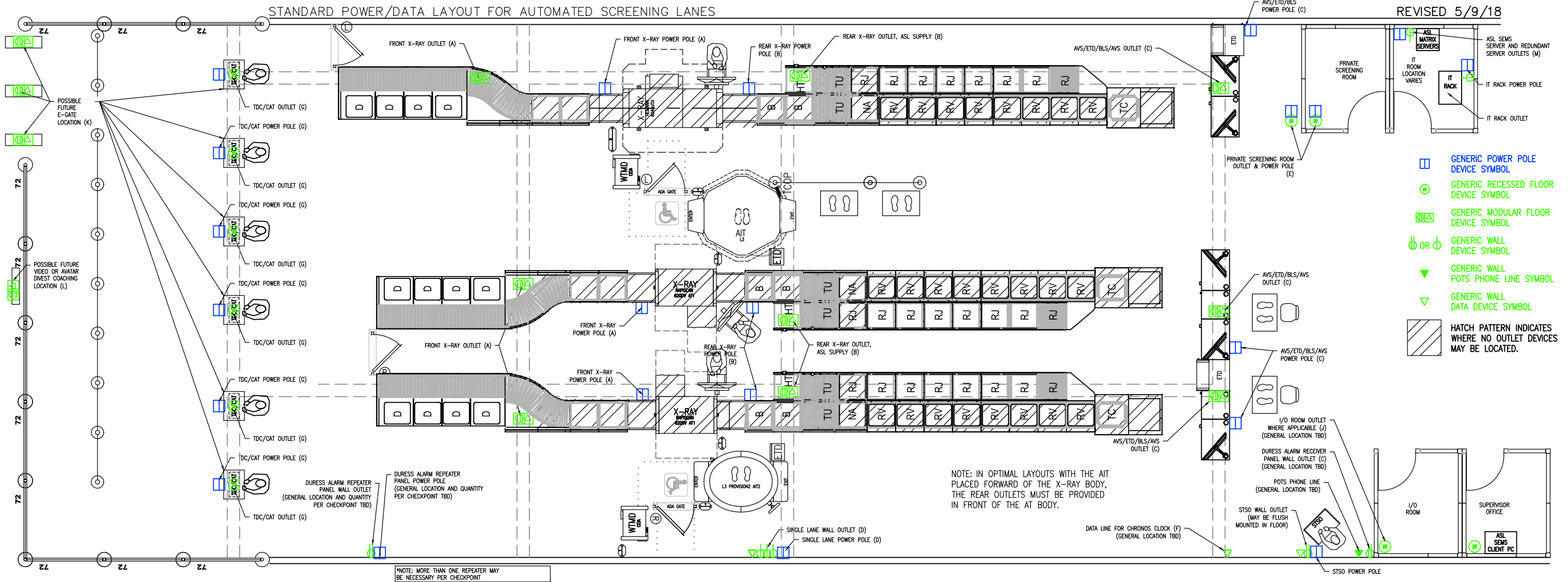
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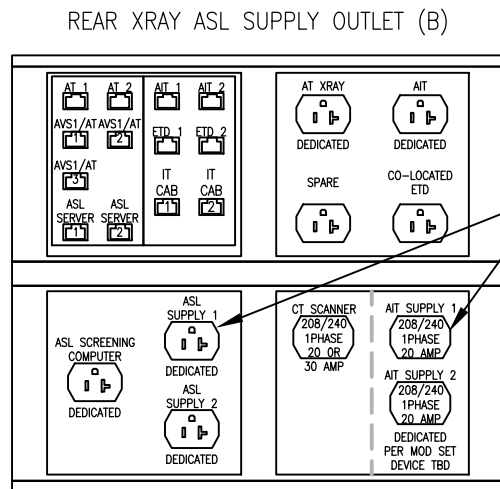
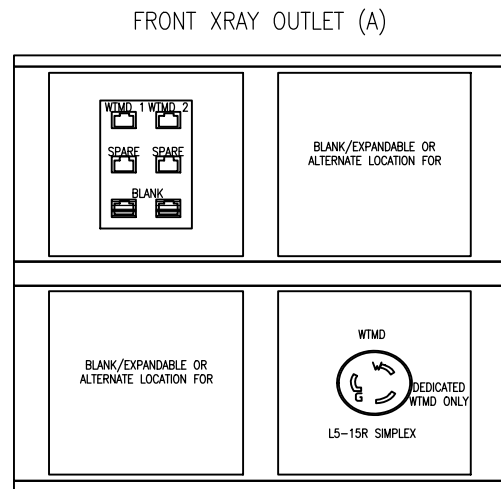


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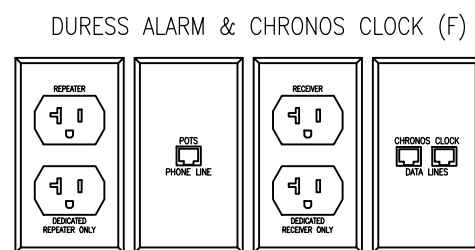
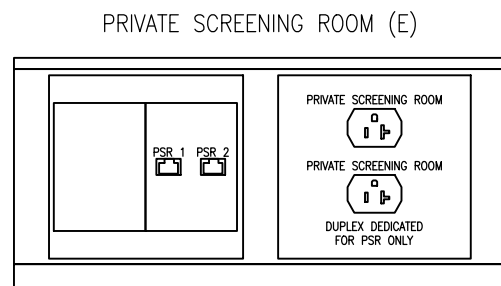
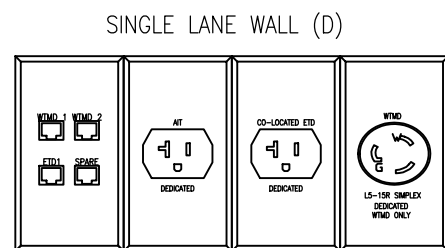
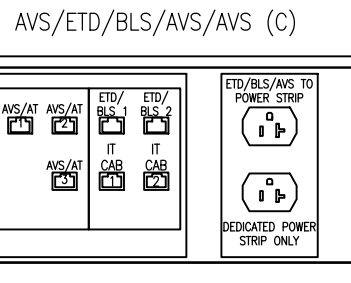
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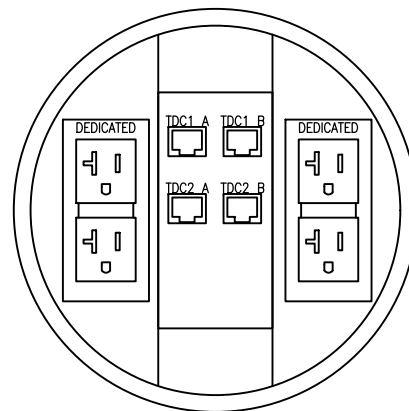


NOTE:

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- VERIFY OUTLET DEVICE TYPE FOR DEDICATED CIRCUITS WITH OEM VENDOR, TYP.



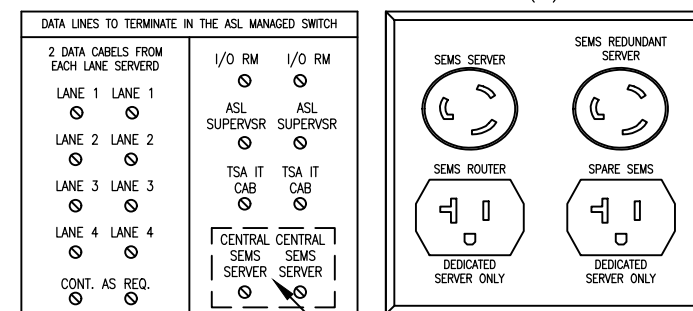
TDC [CAT/E GATE/BAT], STSO (G)
DEDICATED, 2 PER LANE FOR TDC LOCATIONS



POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC [CAT/E GATE/BAT]	1	1 20A CIRCUIT DEDICATED, 2 LOCATIONS PER LANE
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AT X-RAY	1	PROVIDE SIMPLEX RECEPTACLE
CT SCANNER	1	RECEPTACLE TO BE DETERMINED, PROVIDE DEDICATED 208/240 1PHASE 20 OR 30AMP
ASL Supply 1	1	PROVIDE DEDICATED 20A SPLIT WIRED DUPLEX RECEPTACLE
ASL Supply 2	1	PROVIDE DEDICATED 20A SPLIT WIRED DUPLEX RECEPTACLE
AIT	1	PROVIDE SIMPLEX RECEPTACLE DEDICATED AT EACH LANE
AIT Supply 1	1	PROVIDE DEDICATED 208/240 20A, SHARED PER MOD SET
AIT Supply 2	1	PROVIDE DEDICATED 208/240 20A, SHARED PER MOD SET
CO-LOCATED ETD	2	
AVS/AVS/ETD/BLS/AVS	1 SHARED LOCATION/ DEDICATED	OUTLET(S) POWERS RELOCATEABLE POWER TAP/ PROVIDE 20AMP CIRCUIT PER LANE
PRIVATE SCREENING ROOM	1	ONE OUTLET INSIDE AND ONE OUTLET OUTSIDE OF PRIVATE SCREENING ROOM
STSO PODIUM	1	PROVIDE DUPLEX OUTLET
IT CABINET	1	30A L5-30R RECEPTACLE
ASL SEMS SERVER	1	30A DEDICATED
ASL SEMS REDUNDANT SERVER	1	30A DEDICATED, NOT ON SAME PANEL AS THE MAIN SERVER, ON BACKUP POWER
DURESS ALARM RECEIVER PANEL	2	CIRCUITS SHARED CAN BE MORE THAN TWO THROUGHOUT CHECKPOINT BUT ONLY CAN INSTALL TWO REPEATERS PER DUPLEX
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E-GATE/BATT	TBD	TBD
PASSENGER PREP/AVATAR	TBD	TBD

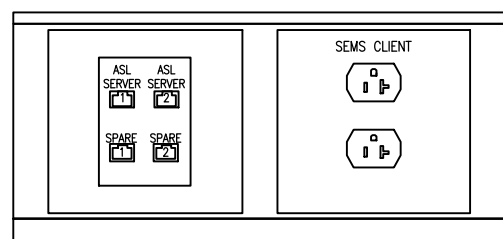
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ASL IT ROOM SEMS COLLOCATED SERVER OR MANAGED SWITCH FOR CENTRAL SERVER-- (M)

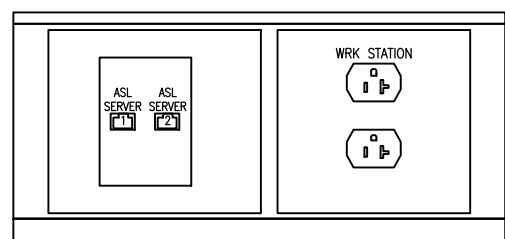


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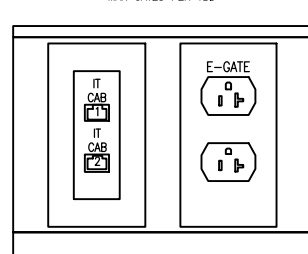
ASL SUPERVISOR CONTROL LOCATION LOCATED AT SUPERVISOR OFFICE (H)
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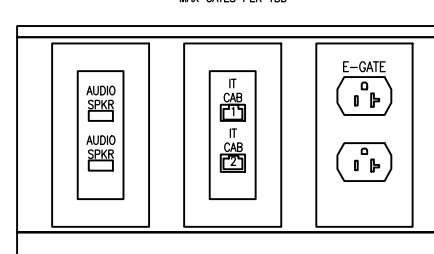
I/O ROOM (J)
DEDICATED
WORK STATIONS ONLY (4 MAX)



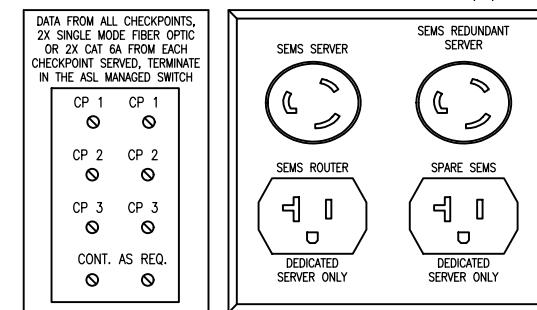
FUTURE E-GATE/BAT (K)
DEDICATED
MAX GATES PER TBD



FUTURE PASSENGER PREP/AVATAR (L)
DEDICATED
MAX GATES PER TBD



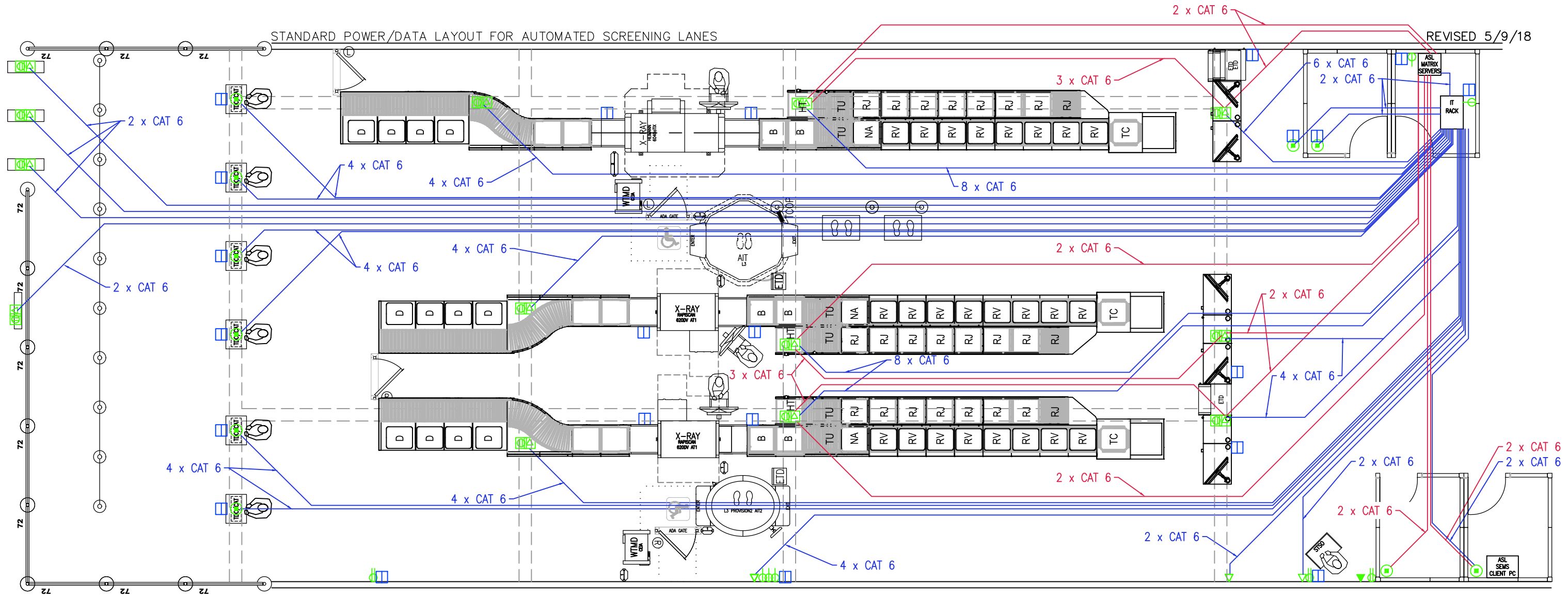
ASL SEMS SERVER - CENTRALIZED (N)



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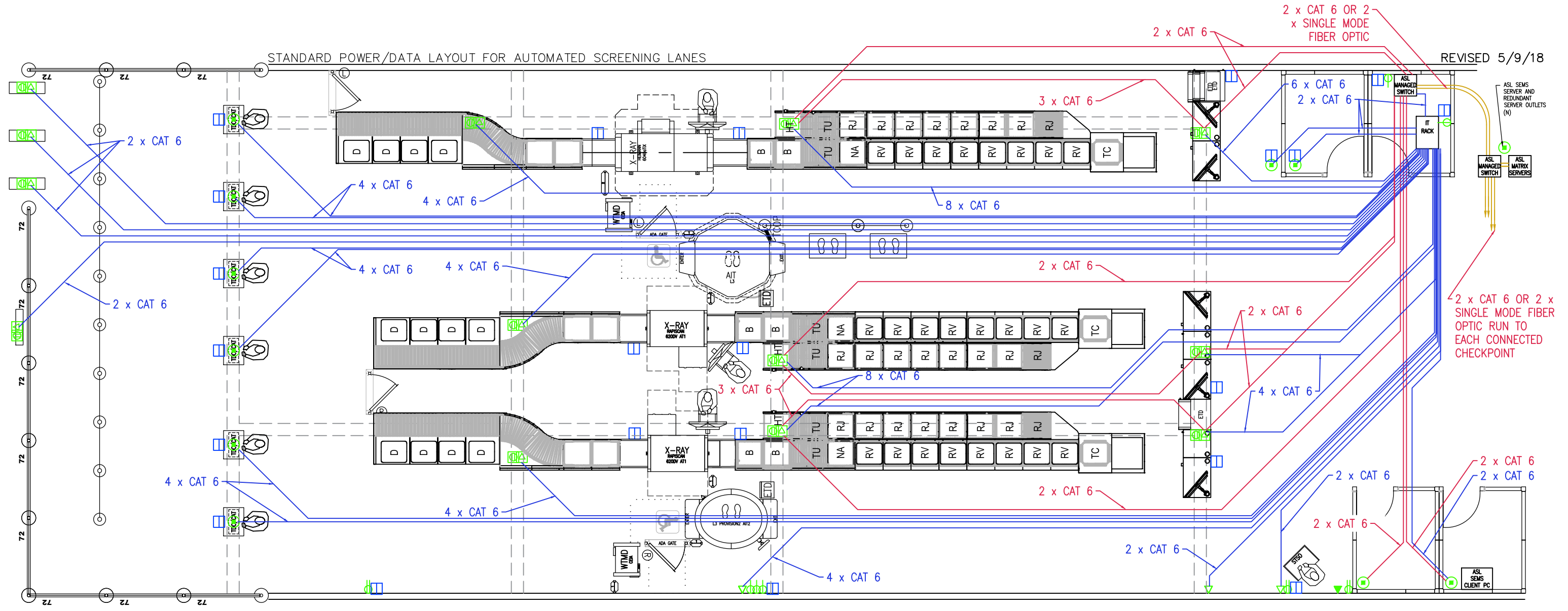
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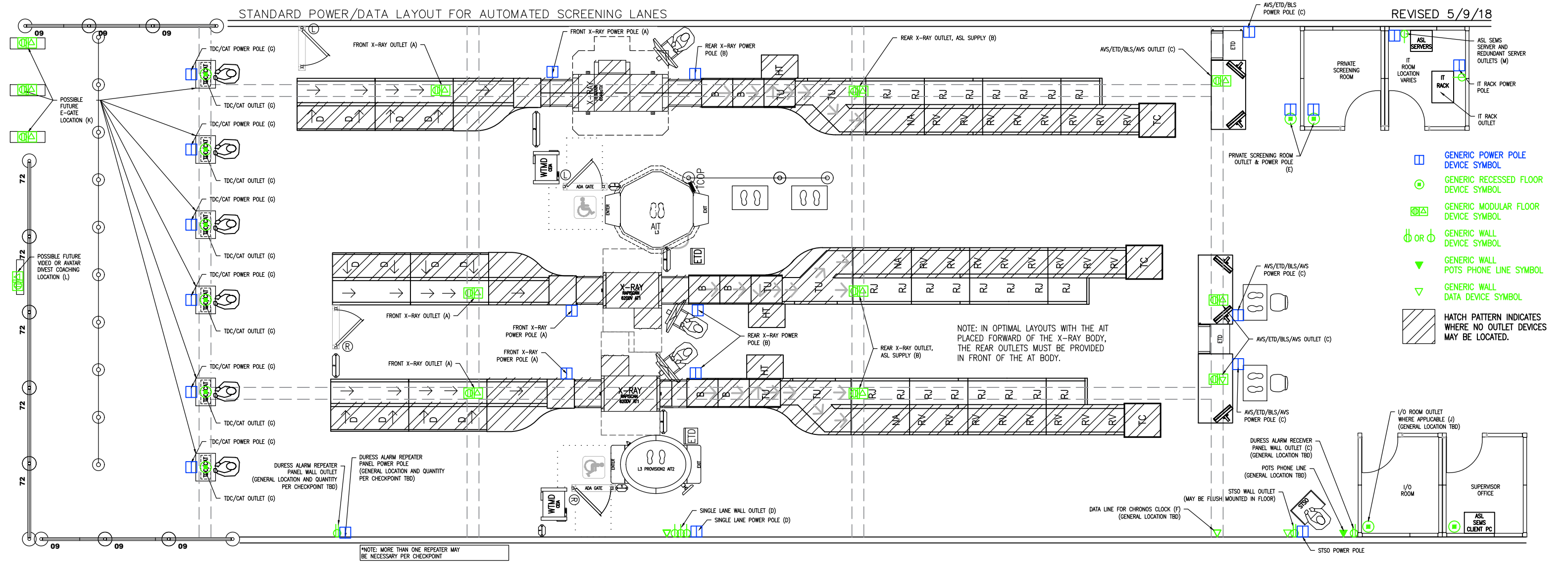
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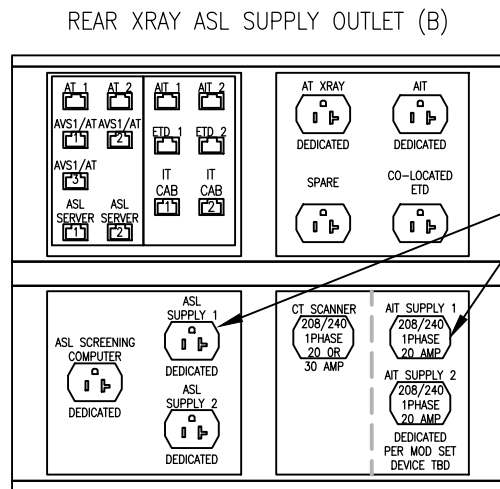
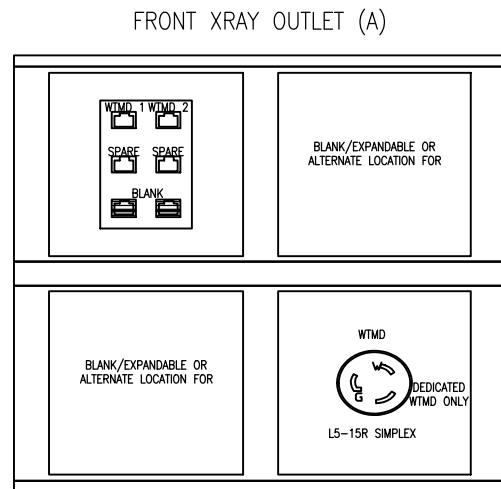


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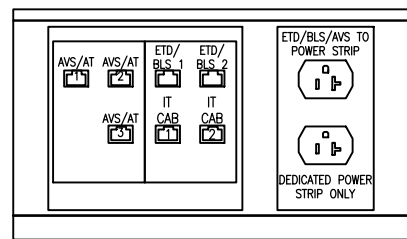




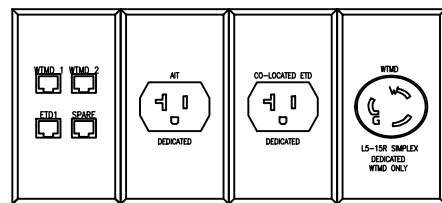
NOTE:

- UP TO 6 208/240V-20 OR 30A CIRCUITS PER MOD SETS. POWER SUPPLY CONDUIT SHOULD BE INSTALLED FOR FUTURE EQUIPMENT DEPLOYMENTS.
- POWER SUPPLY WILL BE AN ISSUE WHEN ADDING APPROXIMATELY 100AMPS PER LANE. POWER SUPPLY IN THE VICINITY OF THE CHECKPOINT SHOULD BE VERIFIED AND REQUIRED UPGRADES PLANNED. THIS INCLUDES BUT NOT LIMITED TO ADDITIONAL ROOM FOR TRANSFORMERS, DISTRIBUTION PANELS AND UPGRADES TO FACILITY ELECTRICAL SERVICE.
- VERIFY OUTLET DEVICE TYPE FOR DEDICATED CIRCUITS WITH OEM VENDOR, TYP.

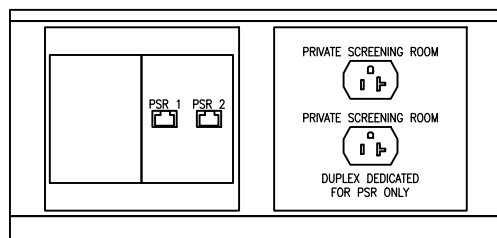
AVS/ETD/BLS/AVS/AVS (C)



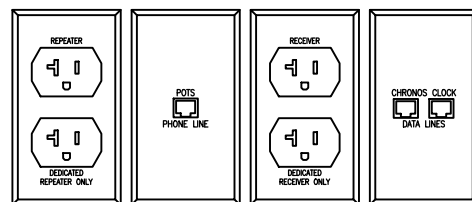
SINGLE LANE WALL (D)



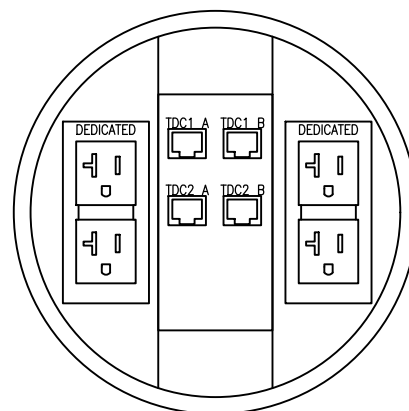
PRIVATE SCREENING ROOM (E)



DURESS ALARM & CHRONOS CLOCK (F)

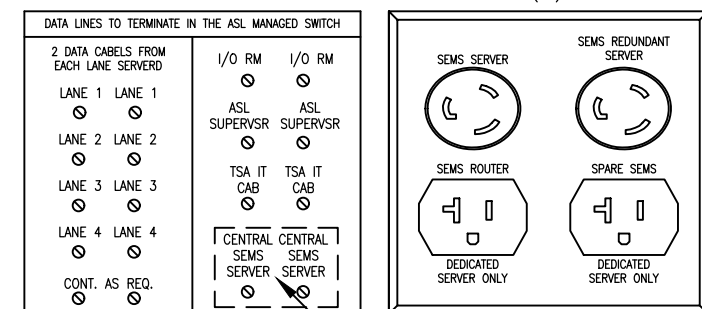


TDC [CAT/E GATE/BAT], STSO (G)
DEDICATED, 2 PER LANE FOR TDC LOCATIONS



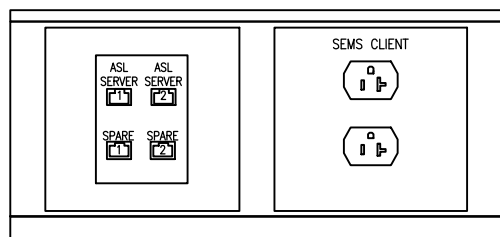
POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC [CAT/E GATE/BAT]	1	1 20A CIRCUIT DEDICATED, 2 LOCATIONS PER LANE
WTMD	10	L5-15R SIMPLEX RECEPTACLE
AT X-RAY	1	PROVIDE SIMPLEX RECEPTACLE
CT SCANNER	1	RECEPTACLE TO BE DETERMINED, PROVIDE DEDICATED 208/240 1PHASE 20 OR 30AMP
ASL Supply 1	1	PROVIDE DEDICATED 20A SPLIT WIRED DUPLEX RECEPTACLE
ASL Supply 2	1	PROVIDE DEDICATED 20A SPLIT WIRED DUPLEX RECEPTACLE
AIT	1	PROVIDE SIMPLEX RECEPTACLE DEDICATED AT EACH LANE
AIT Supply 1	1	PROVIDE DEDICATED 208/240 20A, SHARED PER MOD SET
AIT Supply 2	1	PROVIDE DEDICATED 208/240 20A, SHARED PER MOD SET
CO-LOCATED ETD	2	
AVS/AVS/ETD/BLS/AVS	1 SHARED LOCATION/ DEDICATED	OUTLET(S) POWERS RELOCATEABLE POWER TAP/ PROVIDE 20AMP CIRCUIT PER LANE
PRIVATE SCREENING ROOM	1	ONE OUTLET INSIDE AND ONE OUTLET OUTSIDE OF PRIVATE SCREENING ROOM
STSO PODIUM	1	PROVIDE DUPLEX OUTLET
IT CABINET	1	30A L5-30R RECEPTACLE
ASL SEMS SERVER	1	30A DEDICATED
ASL SEMS REDUNDANT SERVER	1	30A DEDICATED, NOT ON SAME PANEL AS THE MAIN SERVER, ON BACKUP POWER
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
E-GATE/BATT	TBD	TBD
PASSENGER PREP/AVATAR	TBD	TBD
DEVICE LOCATIONS ARE SUBJECT TO CHANGE AND SHOULD BE VERIFIED PRIOR TO INSTALL		
ALL ASL LANE INSTALLATIONS SHALL INCLUDE TSA HQ IT IN PLANNING AND INSTALLATION		
THE IT CABINET SHALL BE A STANDARD DESIGNED 26U TYPE WALL OR FLOOR MOUNT RACK ENCLOSURE, RECOMMENDED DEPTH OF 32"		

ASL IT ROOM SEMS COLLOCATED SERVER OR MANAGED SWITCH FOR CENTRAL SERVER-- (M)

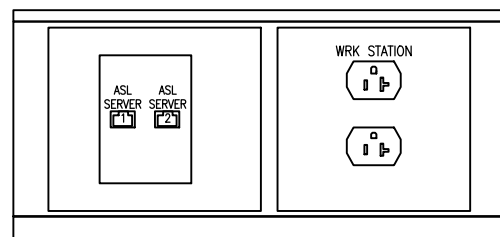


FOR CENTRAL SEMS SERVER SOLUTION CAT6 OR SINGLE MODE FIBER

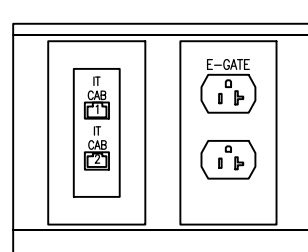
ASL SUPERVISOR CONTROL LOCATION LOCATED AT SUPERVISOR OFFICE (H)
DEDICATED
SEMS CLIENT PC ONLY (2 MAX)



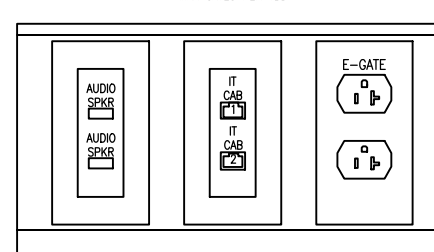
I/O ROOM (J)
DEDICATED
WORK STATIONS ONLY (4 MAX)



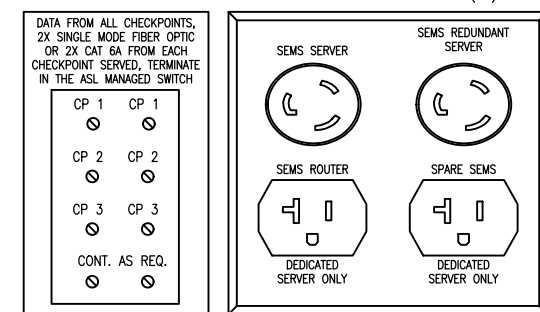
FUTURE E-GATE/BAT (K)
DEDICATED
MAX GATES PER TBD



FUTURE PASSENGER PREP/AVATAR (L)
DEDICATED
MAX GATES PER TBD



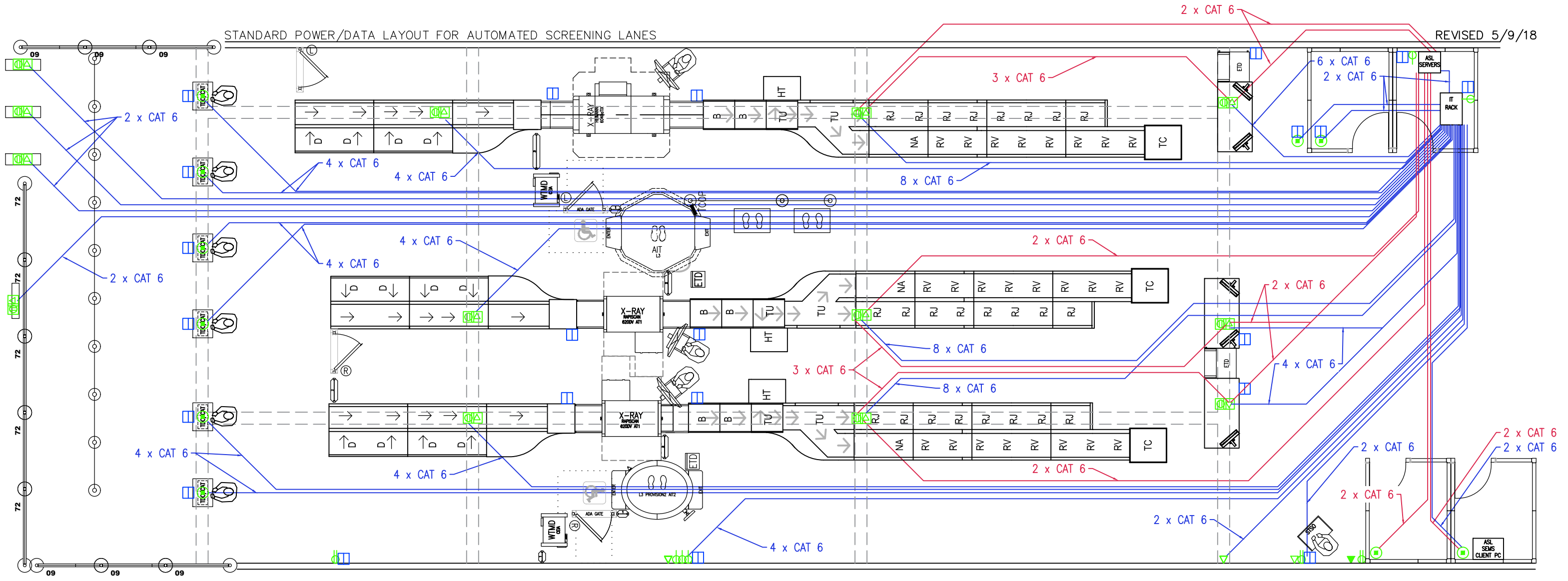
ASL SEMS SERVER - CENTRALIZED (N)



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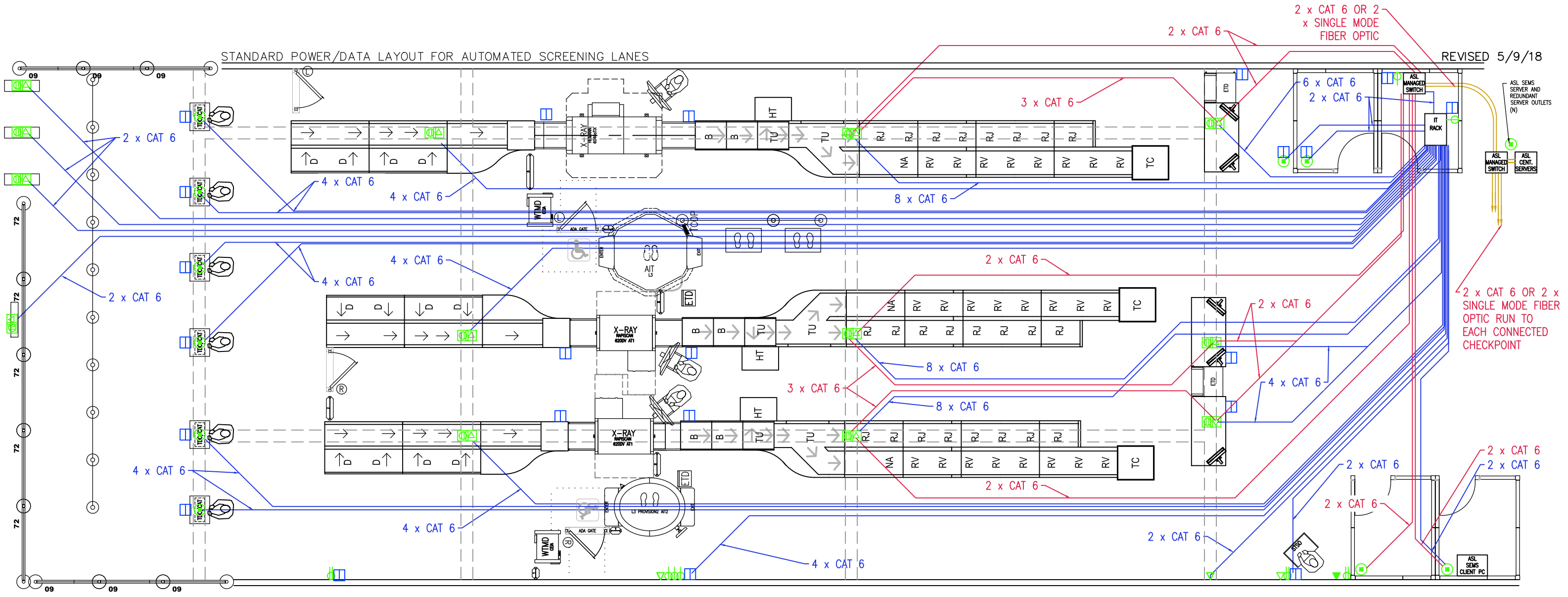
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AT/CT CHECKPOINT DATA CABLING REQUIREMENTS			
OUTLET	CABLE REQUIREMENTS	CABLE DESTINATION	NOTES
FRONT X-RAY OUTLET - A			
	2 X CAT6	TSA IT RACK	
REAR X-RAY OUTLET - B			
	6 X CAT6	TSA IT RACK	
	2 X CAT6	AVS/ETD/BLS/AVS/AVS - C	
AVS/ETD/BLS/AVS/AVS - C			
	4 X CAT6	TSA IT RACK	
	2 X CAT6	REAR X-RAY OUTLET - B	PER LANE SERVED
SINGLE LANE WALL - D			
	4 X CAT6	TSA IT RACK	
PRIVATE SCREENING ROOM - E			
	2 X CAT6	TSA IT RACK	2 OUTLETS PER SCREENING ROOM
DURESS ALARM AND CHRONOS CLOCK - F			
	2 X CAT6	TSA IT RACK	
TDC/CAT AND STSO PODIUM - G			
	4 X CAT6	TSA IT RACK	
ASL SUPERVISOR CONTROL LOCATION - H			
	2 X CAT6	TSA IT RACK	



ASL CHECKPOINT DATA CABLING REQUIREMENTS			
	CABLE REQUIREMENTS	CABLE DESTINATION	NOTES
OUTLET			
FRONT X-RAY OUTLET - A			
	4 X CAT6	TSA IT RACK	
REAR X-RAY OUTLET - B			
	8 X CAT6	TSA IT RACK	
	2 X CAT6	ASL SEMS SERVER - M	
	3 X CAT6	AVS/ETD/BLS/AVS/AVS - C	
AVS/ETD/BLS/AVS/AVS - C			
	4 X CAT6	TSA IT RACK	
	3 X CAT6	REAR X-RAY OUTLET - B	PER LANE SERVED
SINGLE LANE WALL - D			
	4 X CAT6	TSA IT RACK	
PRIVATE SCREENING ROOM - E			
	2 X CAT6	TSA IT RACK	2 OUTLETS PER SCREENING ROOM
DURESS ALARM AND CHRONOS CLOCK - F			
	2 X CAT6	TSA IT RACK	
TDC/CAT AND STSO PODIUM - G			
	4 X CAT6	TSA IT RACK	

ASL IT ROOM SEMS SERVER - M (ALSO AS ASL MANAGED SWITCH FOR CENTRALIZED SERVER SOLUTION)			
	2 X CAT6	TSA IT RACK	
	2 X CAT6	I/O ROOM - J	
	2 X CAT6	ASL SUPERVISOR CONTROL LOCATION - H	
	2 X CAT6	PER EACH REAR X-RAY ASL SUPPLY OUTLET - B	
ADDITIONAL REQUIREMENTS FOR CENTRALIZED ASL SEMS SERVER			
	2 X CAT6	PER EACH CHECKPOINT ASL MANAGED SWITCH TO CENTRALIZED SEMS SERVER	MAX CABLE RUN 275 FEET
	2 X SINGLE MODE FIBER OPTIC		CABLE RUNS OVER 275 FEET
ASL SUPERVISOR CONTROL LOCATION - H			
	2 X CAT6	TSA IT RACK	
	2 X CAT6	ASL SEMS SERVER - M	
I/O ROOM - J			
	2 X CAT6	ASL SEMS SERVER - M	
FUTURE E-GATE/BAT - K			
	2 X CAT6	TSA IT RACK	AIRPORT OR AIRLINE SUPPLIED
FUTURE PASSENGER PREP/AVATAR - L			
	2 X CAT6	TSA IT RACK	AIRPORT OR AIRLINE SUPPLIED
	2 X AUDIO CABLE	LOCATION OF HEAD END TBD	AIRPORT OR AIRLINE SUPPLIED
ASL IT ROOM SEMS SERVER - M (CENTRALIZED SERVER SOLUTION ONLY)			
	2 X CAT6	PER EACH CHECKPOINT ASL MANAGED SWITCH	MAX CABLE RUN 275 FEET
	2 X SINGLE MODE FIBER OPTIC		CABLE RUNS OVER 275 FEET



- SEMS Server is to be located in a TSA IT Room or a shared Comm. room with the airport in a locked cabinet that shall provided by ASL vendor. If neither are available TSA HQ IT and TSA HQ Checkpoint design agreed space.
- SEMS Client PC to be located in a TSA Office at the respective checkpoint. Alternate location is at the TSA STSO podium in an approved securable computer cabinet.
- Project Sponsor provided managed switch must be located in a secure location in the checkpoint.
- Fiber optic to be single mode.
- All cable runs to be 100% redundant.
- The fiber infrastructure from the nearest communication room adjacent to each SSCP to the TSA CMF in each terminal will be provided by the airport/airlines at its sole cost and expense. The fiber will be dedicated for TSA use for as long as needed and any maintenance, repair or replacement will be the sole responsibility of the airport/airline. There shall be no cost to TSA for its use of the above referenced fiber infrastructure and its components. This will be a “closed network” at the airport for the TSA ASL only.
- TSA Approved Network switches:

Cisco C3560CX-12PC

- 12 Gigabit Ethernet ports
- 2 x 1 GE copper uplinks
- 2 x 1 GE SFP uplinks
- IP base (IP services with RTU license)
- PoE+ support with up to 240 W of PoE budget

Cisco 3850-12S-S

- 12 x Gigabit Ethernet SFP
- Port transmission speed, port duplex mode, system, status, PoE
- IPv4 routes

Cisco WS-C3850-48P

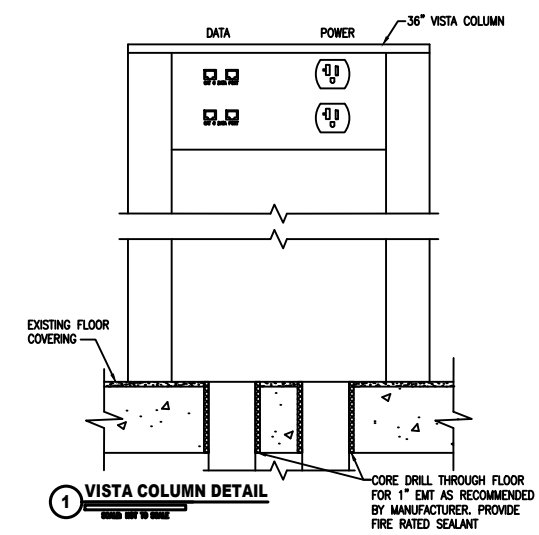
Cisco WS-C3850-24S

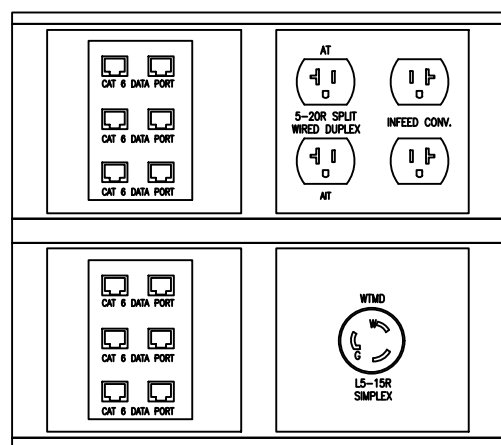
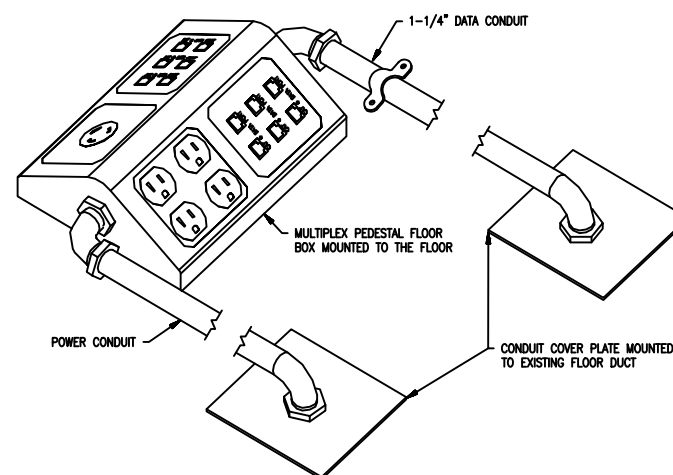
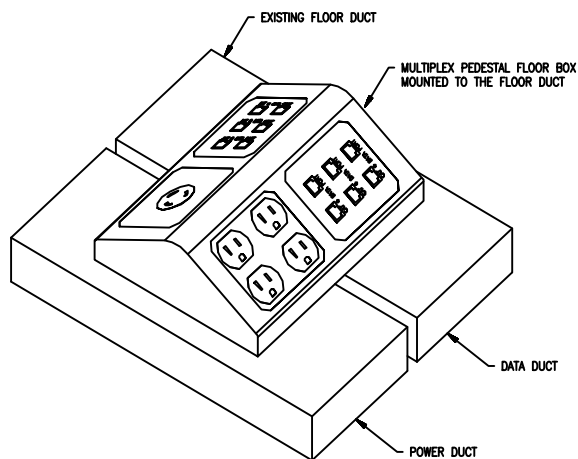


GENERAL NOTES - WIRE GAUGE ASSUMPTIONS

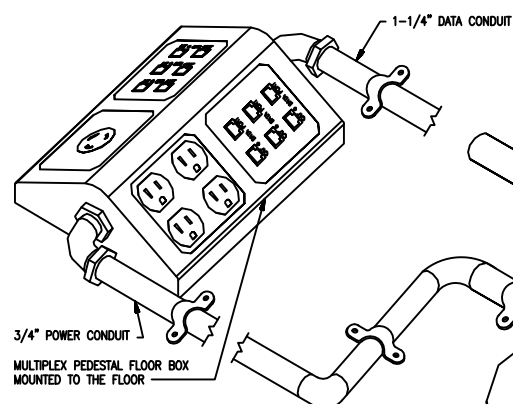
- Look at Full Load of the equipment if available.
- Utilize the electrical specs of the units if available. If not use worst case scenario of 30A/2P circuit with (3) #10s.
- If the Distance of the equipment to panel exceeds 100' up to 150', estimate (3) #8s. If the distance of the equipment to panel exceeds 150' up to 250' estimate (3) #6 conductors.
- Utilize minimum dedicated 1" conduits to leave extra room in the conduits for expansions and risks.
- CT power requirements listed in most cases as 208V/ 30A as worst case possibility. Verify exact requirement with CT OEM.
- CT connection devices are to be twist lock and appropriate to circuit.







EXAMPLE DEVICE



REMOVE EXISTING TWIST LOCK AND BS1 FACEPLATE. REPLACE WITH BLANK 88 FACEPLATE AND CUT A 3/4\"/>

REPLACE EXISTING DUPLEX AND 8DP FACEPLATE WITH BLANK 88 FACEPLATE. REROUTE ALL POWER THROUGH NEW CONDUIT EXTENSION

REMOVE EXISTING TWIST LOCK AND BS1 FACEPLATE. REPLACE WITH BLANK 88 FACEPLATE AND CUT A 3/4\"/>

REMOVE COVER FROM EXISTING RECESSED POKE-THRU

REMOVE EXISTING DATA FACEPLATE. REPLACE WITH BLANK 88 FACEPLATE AND CUT 1-1/4\"/>

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REPLACE EXISTING DUPLEX AND 8DP FACEPLATE WITH BLANK 88 FACEPLATE. REROUTE ALL POWER THROUGH NEW CONDUIT EXTENSION

SPECIAL NOTE:
 SURFACE MOUNTING OF ELECTRICAL CONDUIT IS TO BE USED ONLY WERE RELOCATING FLOOR PENETRATIONS IS NOT FEASIBLE YET REQUIRED DUE TO THE LOCATIONS OF TSE. CONDUIT AND SURFACE MOUNTED DEVICES ARE TO BE COMPLETELY UNDER THE EQUIPMENT AND NOT EXPOSED TO FOOT TRAFFIC.

