

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.

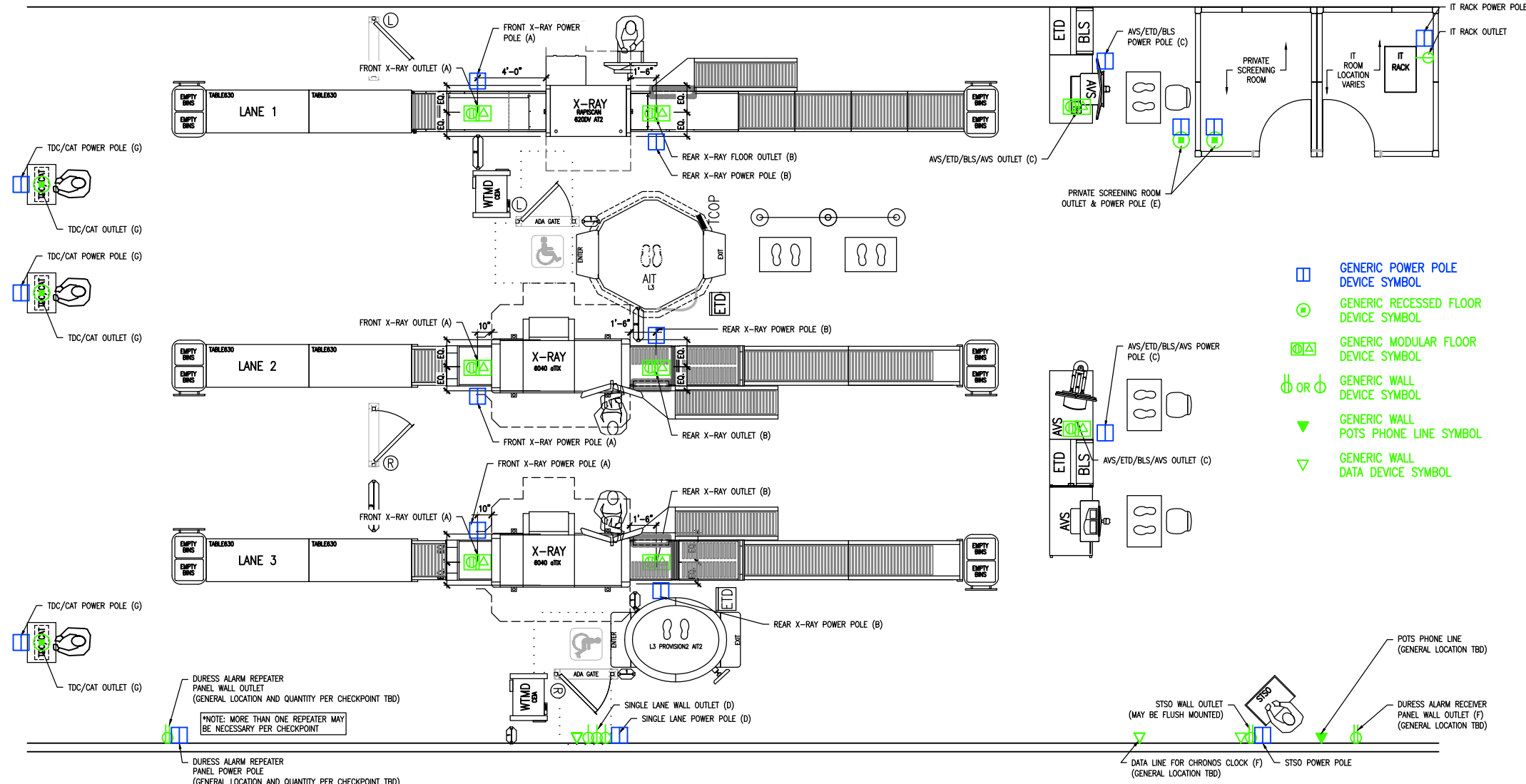
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NOTE:

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





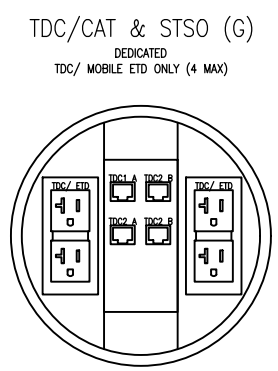
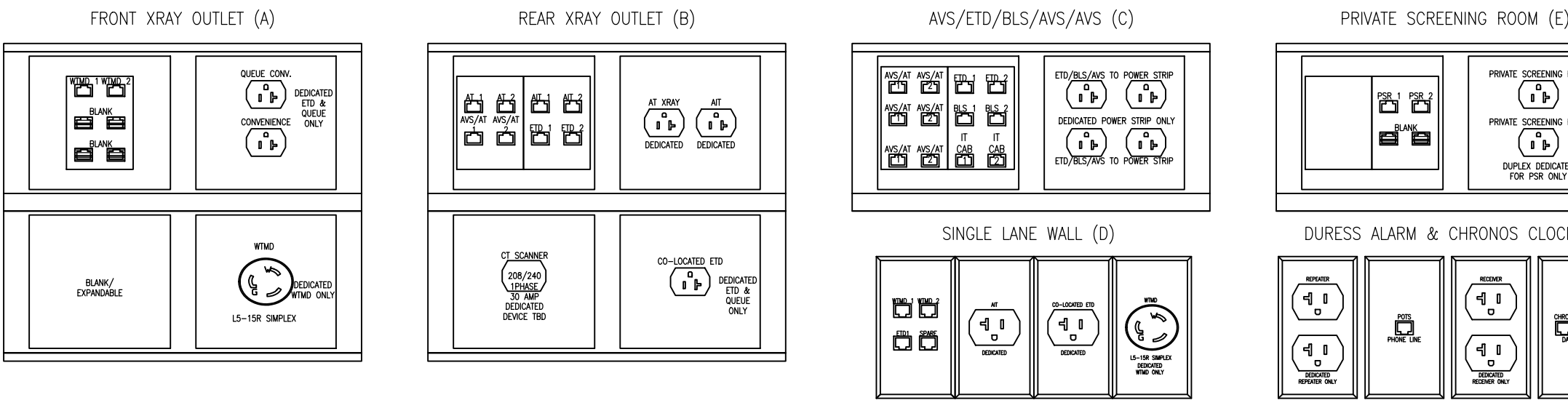
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EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC/CAT	4	PROVIDE FLUSH MOUNTED DEVICE, OUTLET IS DESIGNED TO SERVE (2) MOBILE ETD UNITS
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AIT	1	PROVIDE SIMPLEX RECEPTACLE
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ALL CIRCUITS TO HAVE 20 AMP SERVICE WITH EXCEPTION TO IT CABINET WHICH SHALL HAVE 30 AMP SERVICE

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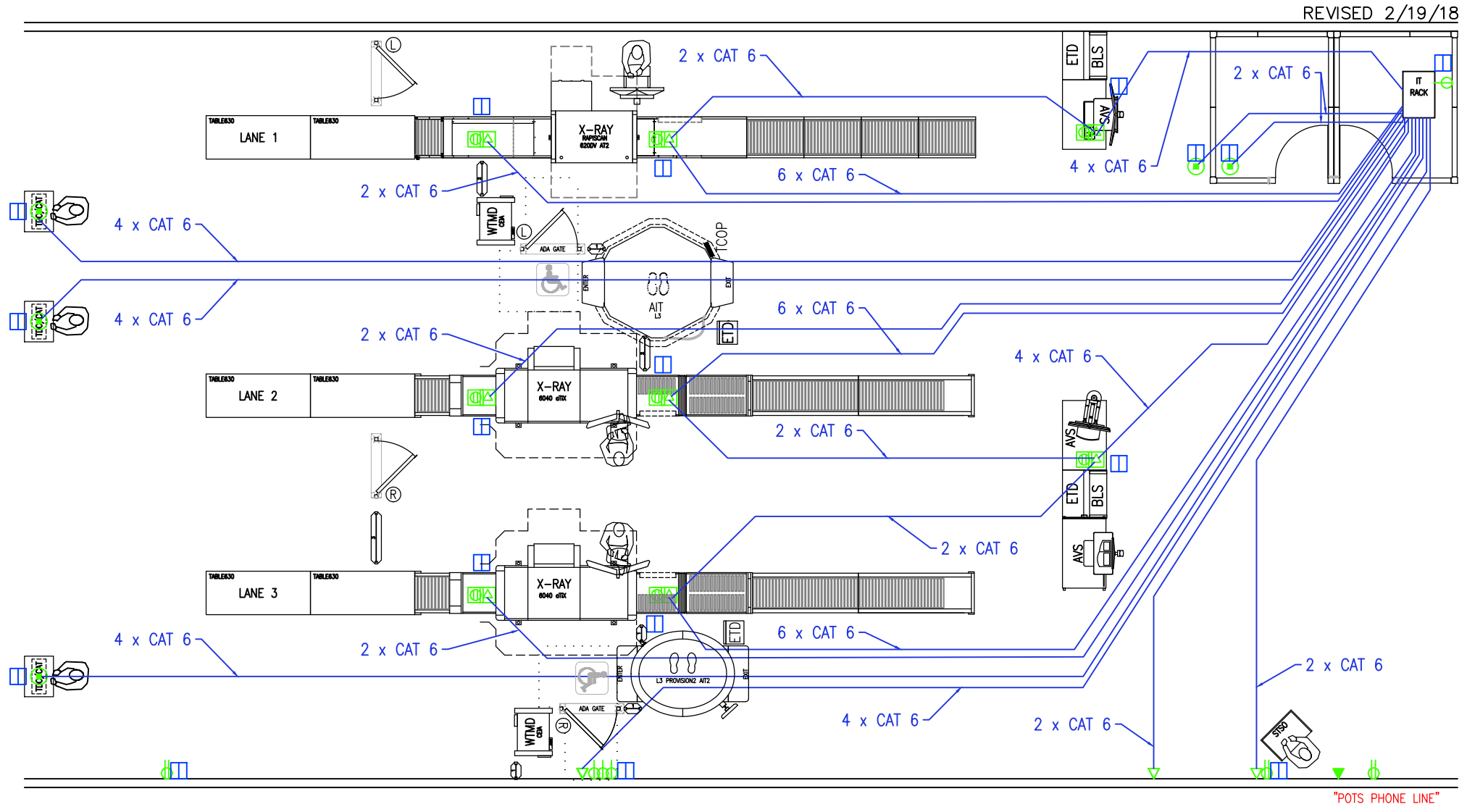
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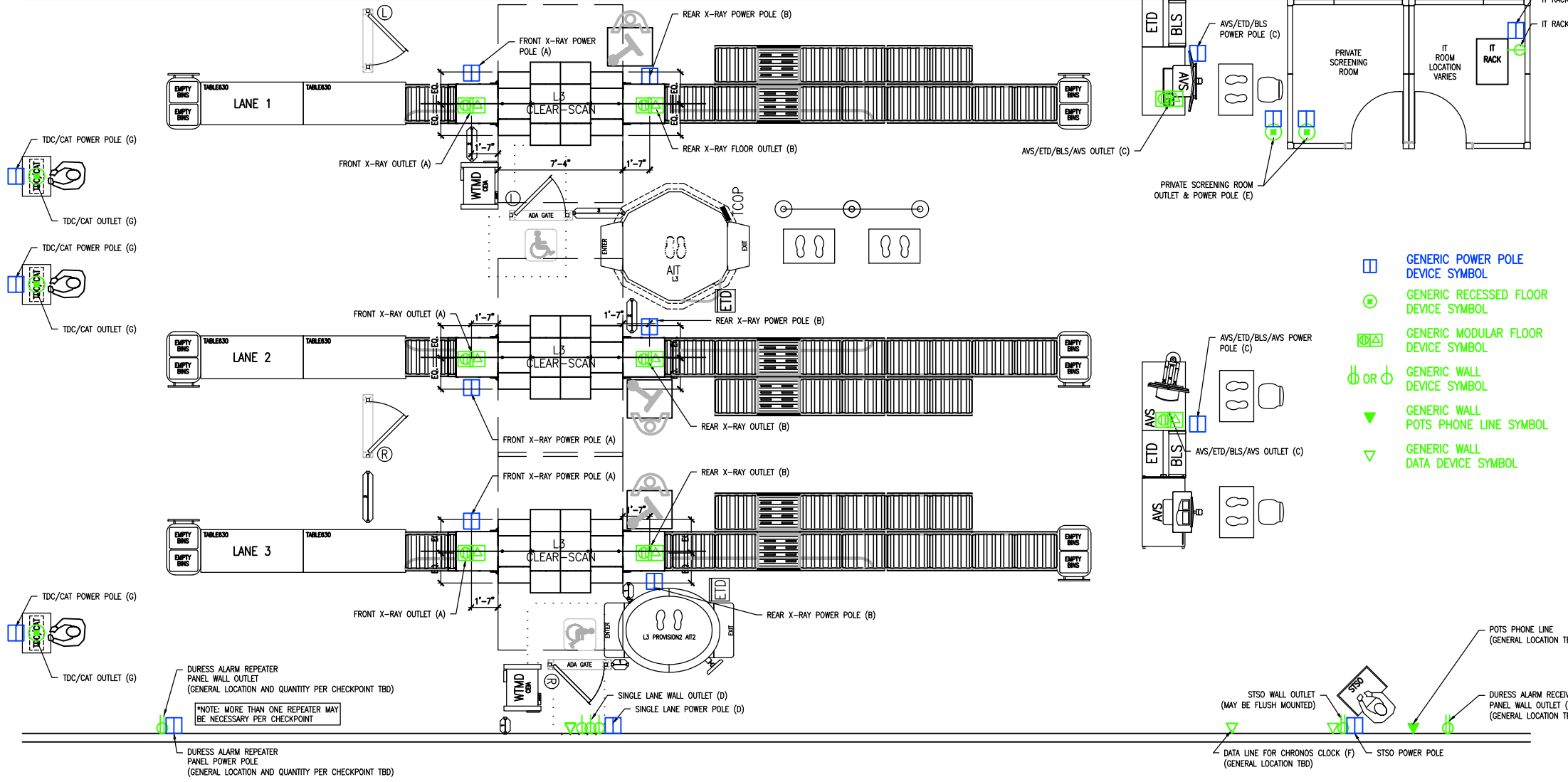


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X-RAY DEVICE LOCATIONS





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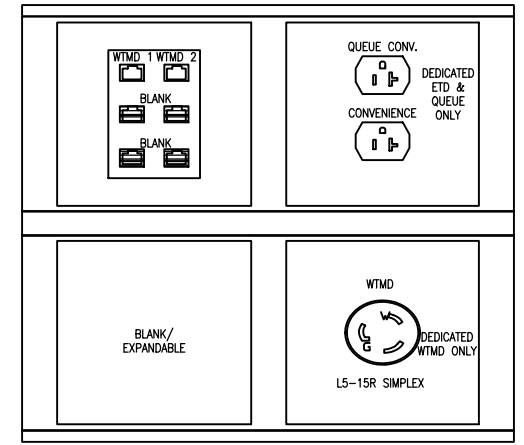
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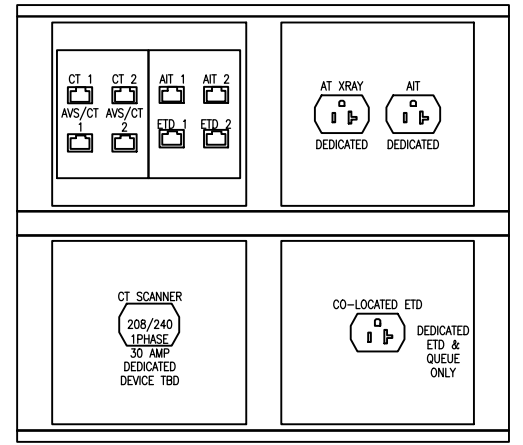
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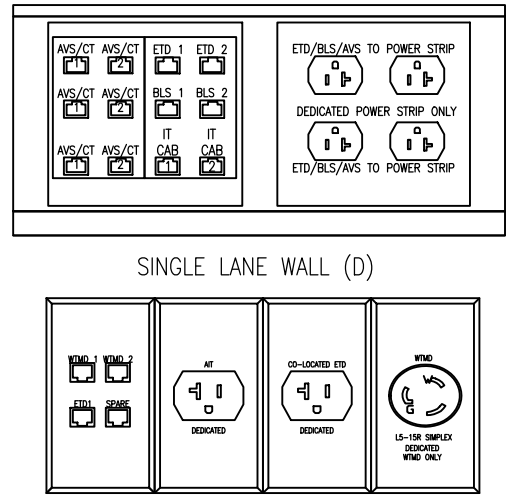
FRONT XRAY OUTLET (A)



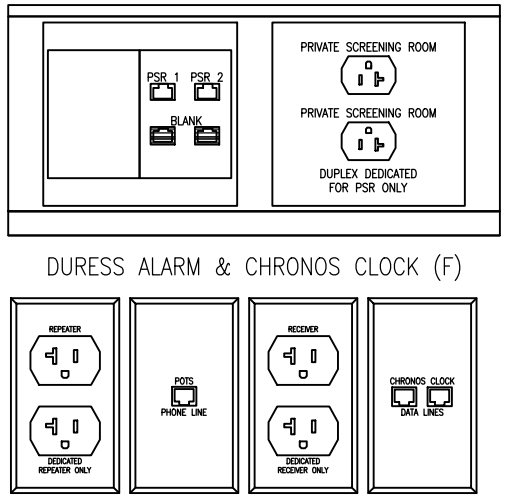
REAR XRAY OUTLET (B)



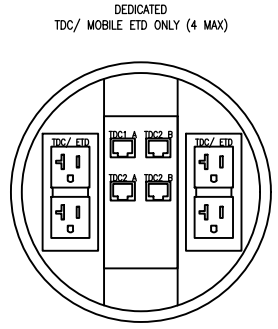
AVS/ETD/BLS/AVS/AVS (C)



PRIVATE SCREENING ROOM (E)



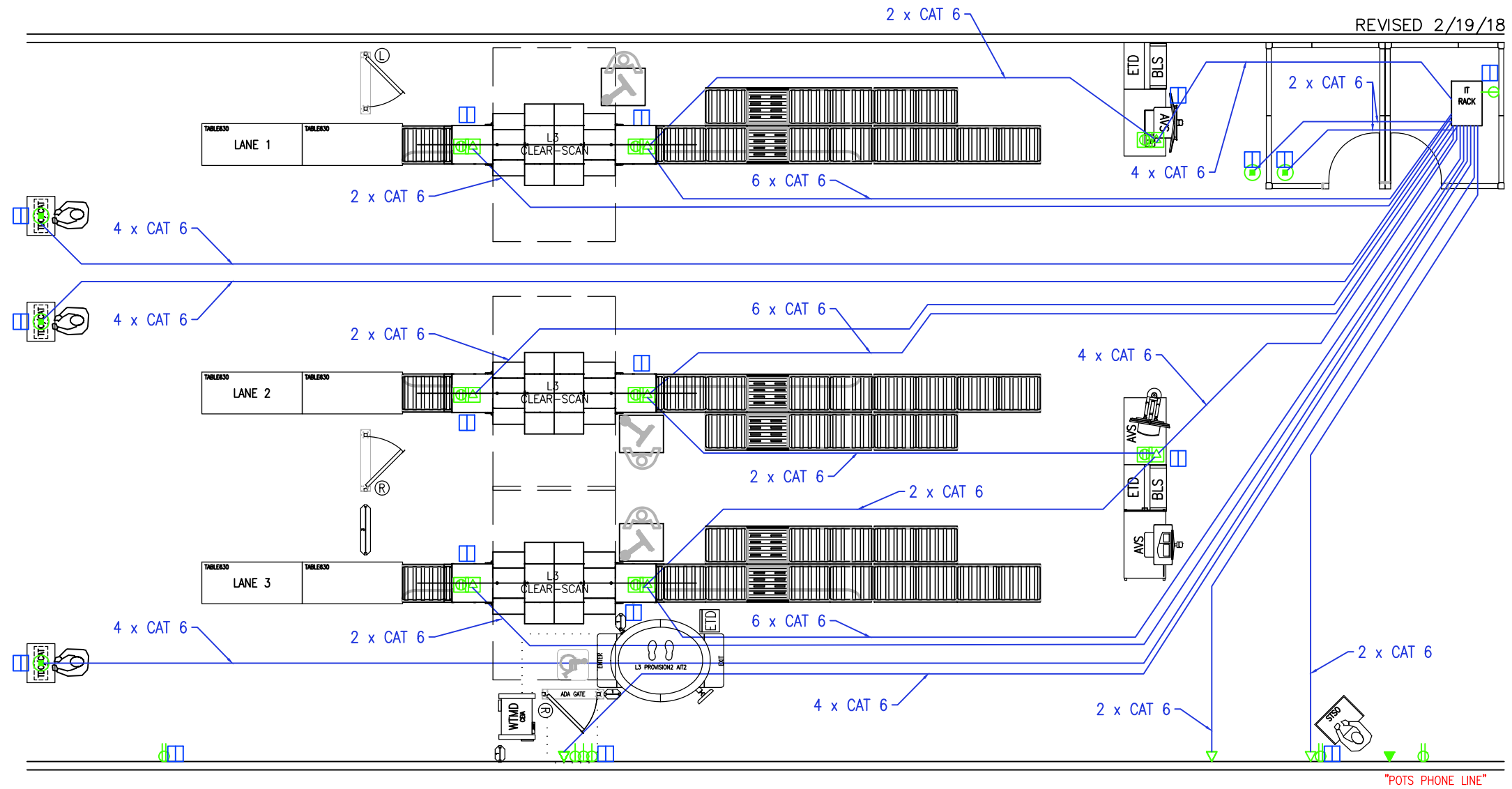
TDC/CAT & STSO (G)



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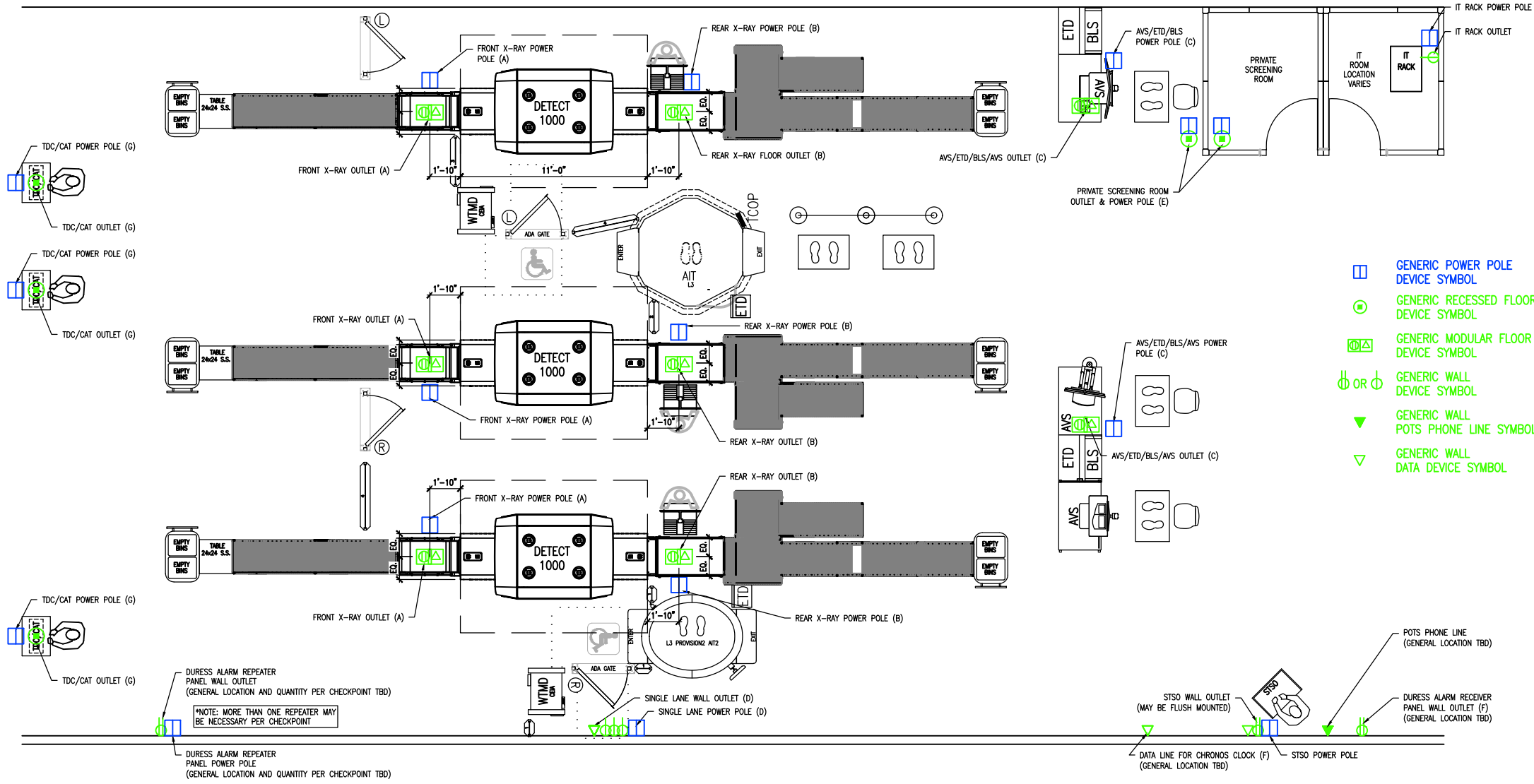


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- GENERIC POWER POLE DEVICE SYMBOL
- GENERIC RECESSED FLOOR DEVICE SYMBOL
- (with symbol) GENERIC MODULAR FLOOR DEVICE SYMBOL
- ⊕ OR ⊖ GENERIC WALL DEVICE SYMBOL
- ▽ (with symbol) GENERIC WALL POTS PHONE LINE SYMBOL
- ▽ (with symbol) GENERIC WALL DATA DEVICE SYMBOL

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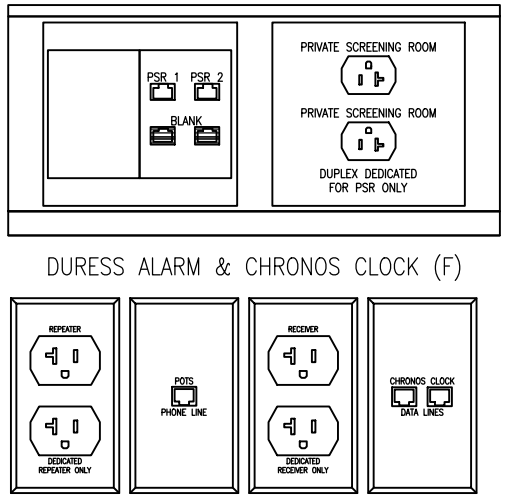
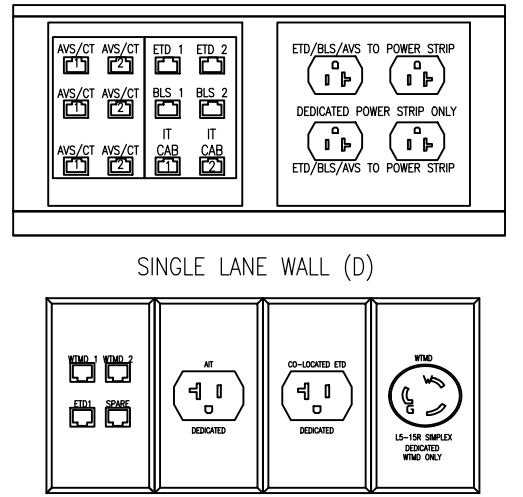
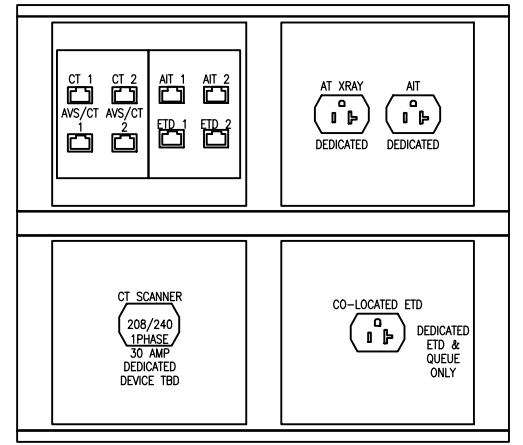
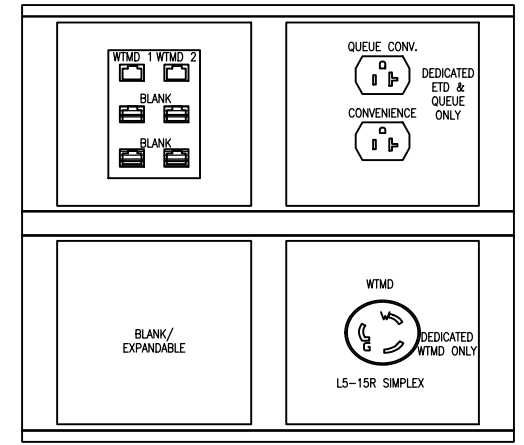
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FRONT XRAY OUTLET (A)

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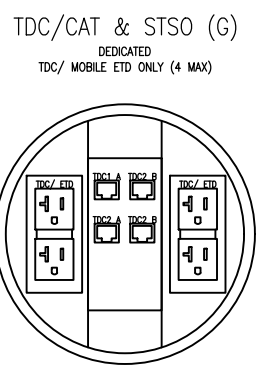
AVS/ETD/BLS/AVS/AVS (C)

PRIVATE SCREENING ROOM (E)



SINGLE LANE WALL (D)

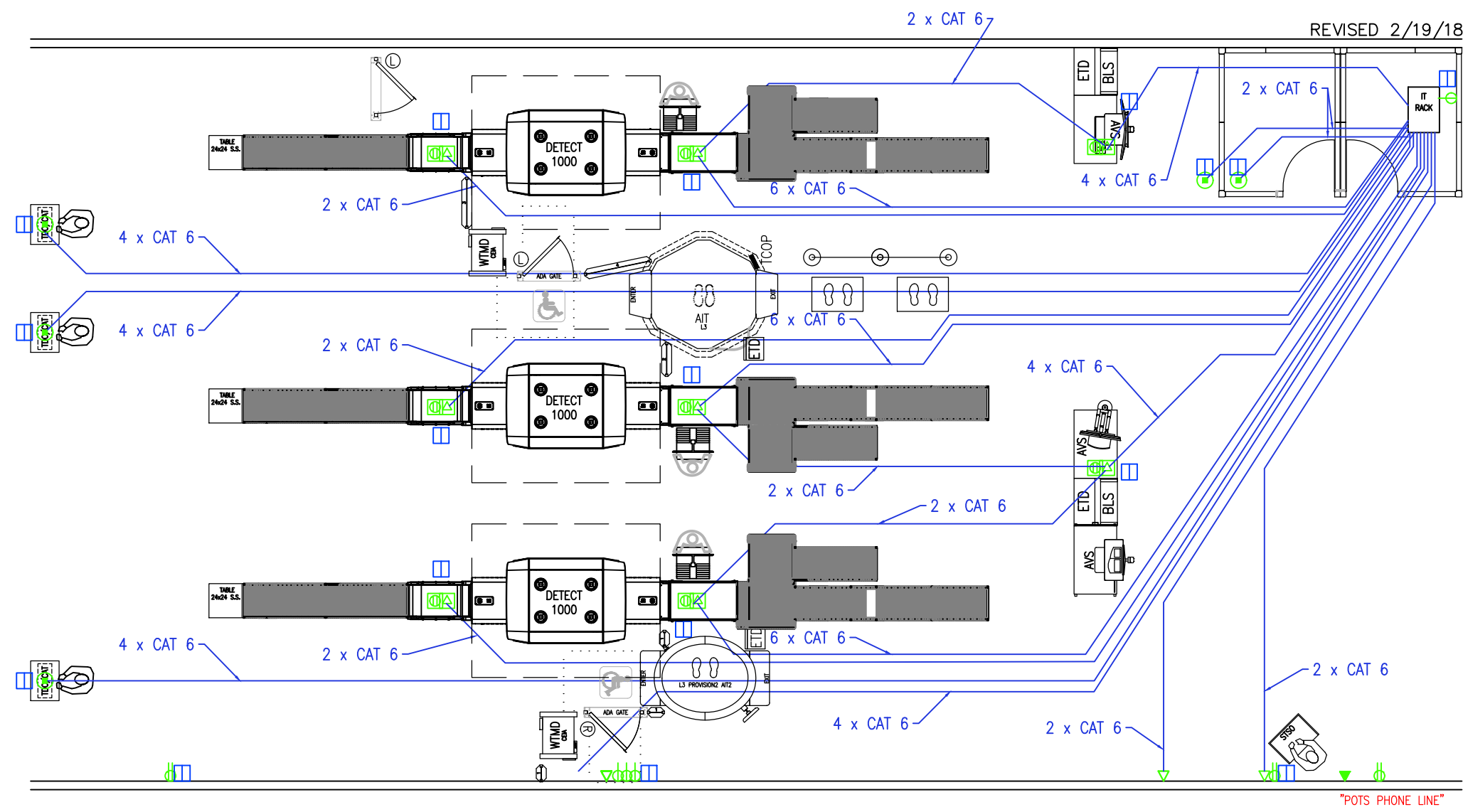
DURESS ALARM & CHRONOS CLOCK (F)



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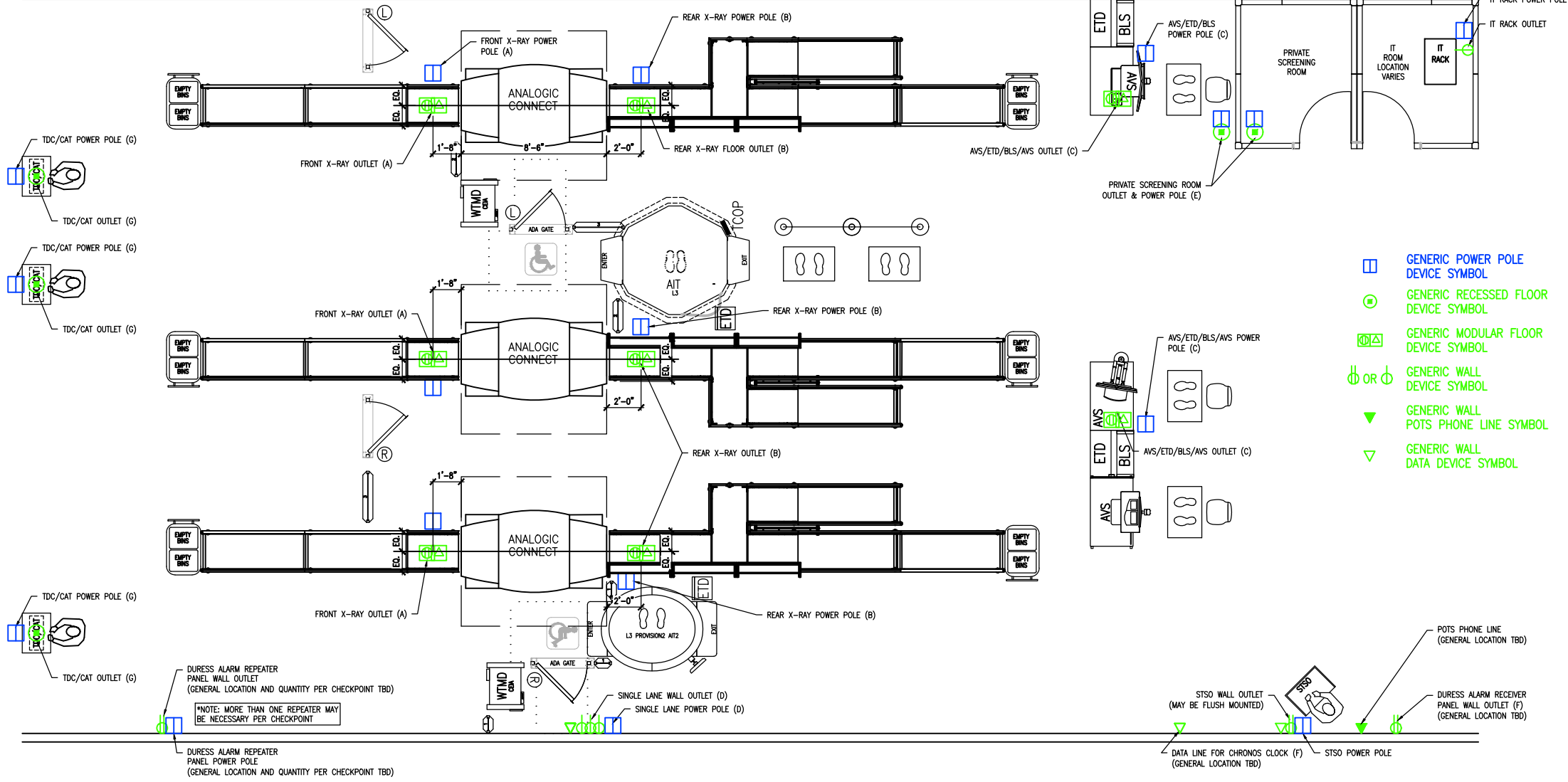


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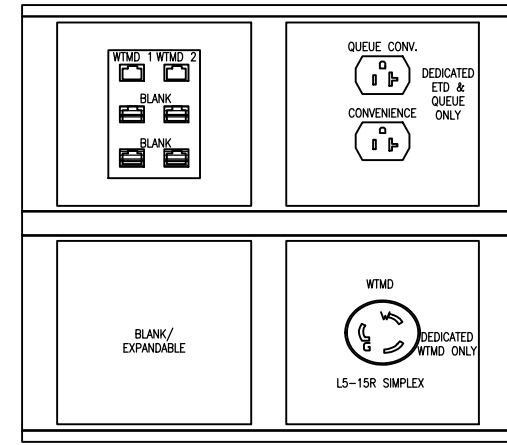
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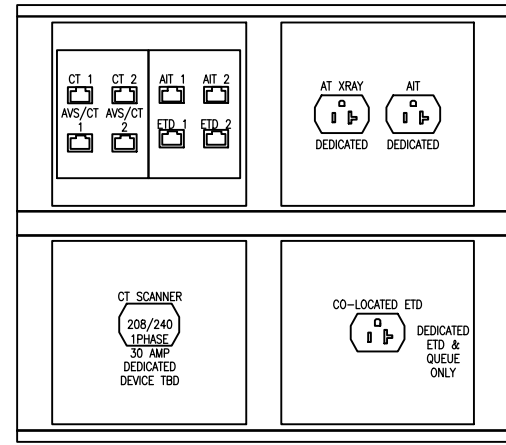
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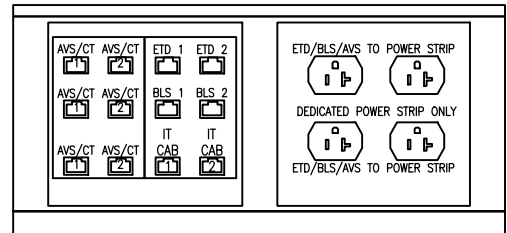
FRONT XRAY OUTLET (A)



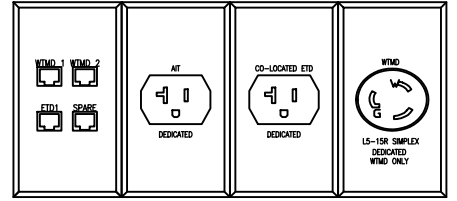
REAR XRAY OUTLET (B)



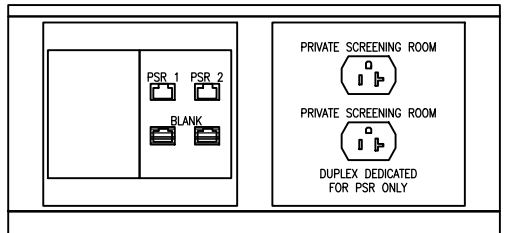
AVS/ETD/BLS/AVS/AVS (C)



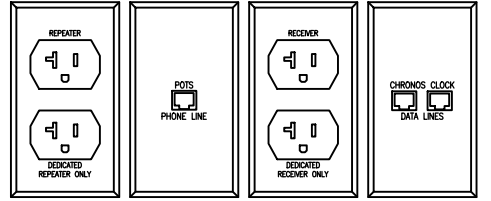
SINGLE LANE WALL (D)



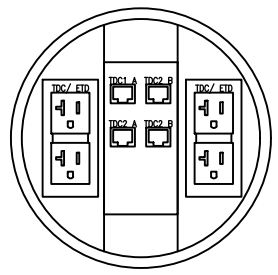
PRIVATE SCREENING ROOM (E)



DURESS ALARM & CHRONOS CLOCK (F)



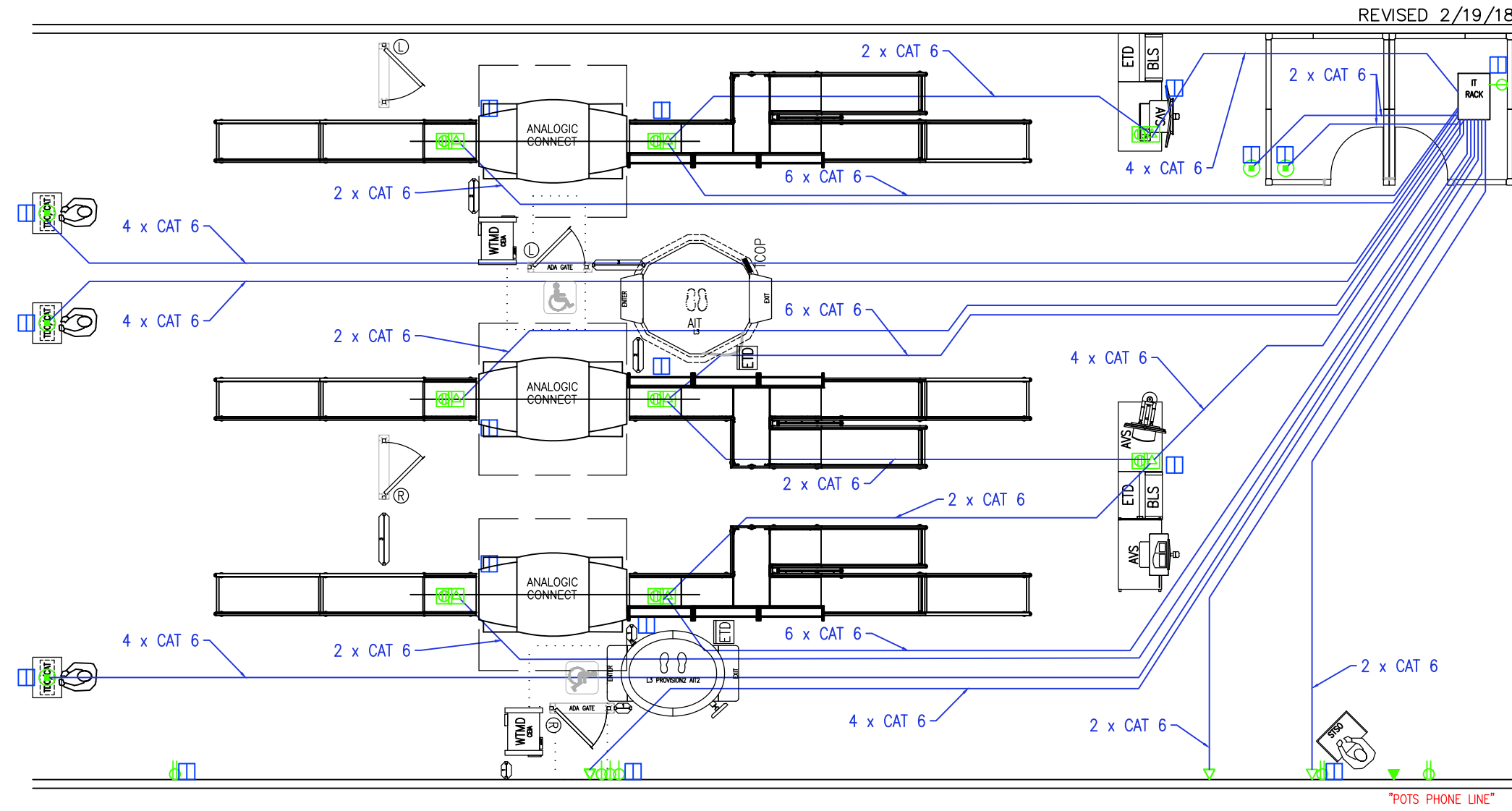
TDC/CAT & STSO (G)



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- NOTES:**
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 4. AVS DATA LINES FROM THE REAR XRAY OUTLET MAY ROUTE THRU THE IT ROOM IF NECESSARY.

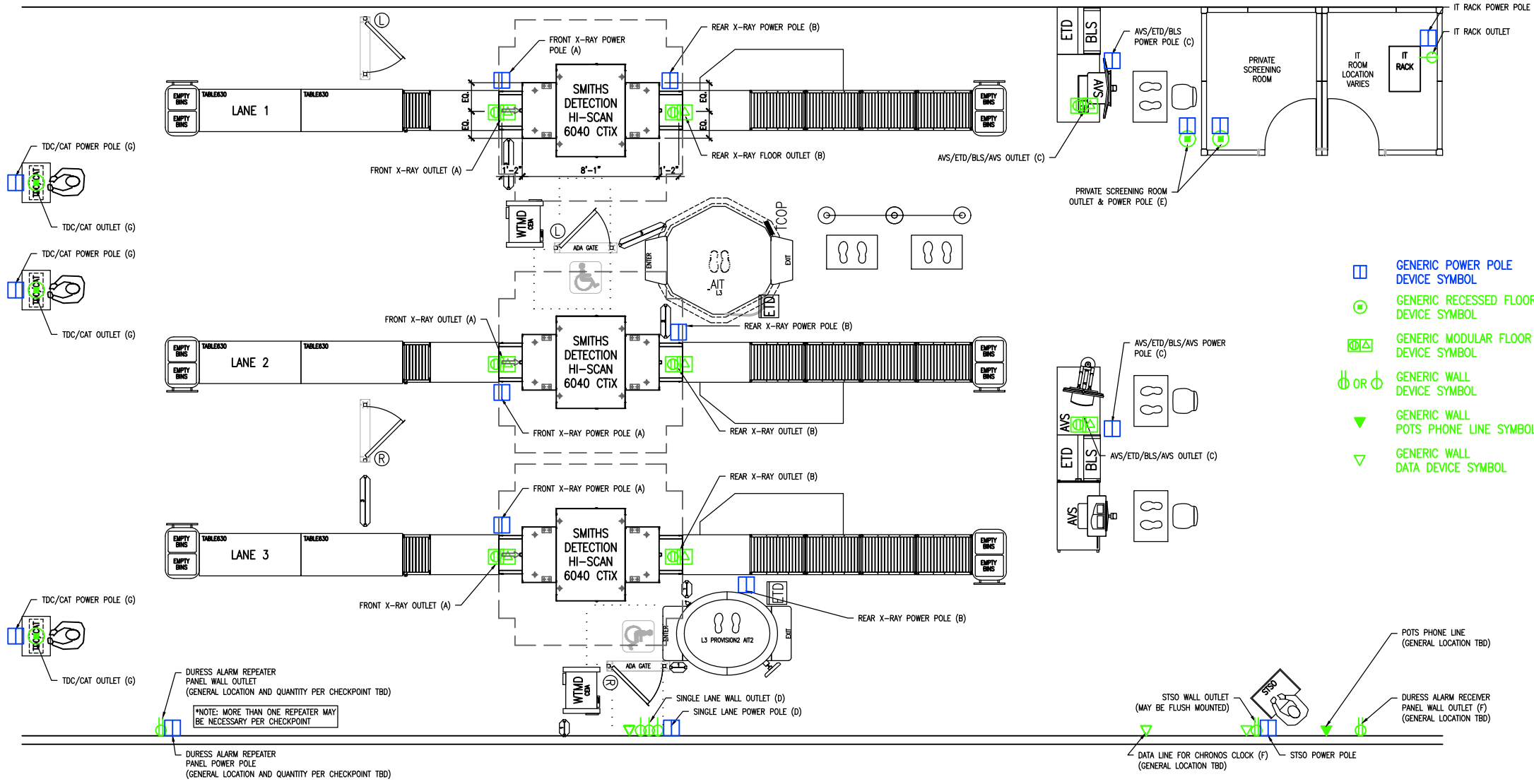


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X-RAY DEVICE LOCATIONS





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 4. THIS CONFIGURATION IS FOR STANDALONE CT INSTALLATIONS, SEE ASL CONFIGURATIONS FOR ADDITIONAL REQUIREMENTS.

POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC/CAT	4	PROVIDE FLUSH MOUNTED DEVICE, OUTLET IS DESIGNED TO SERVE (2) MOBILE ETD UNITS
WTMD	10	L5-15R SIMPLEX RECEPTACLE
AT X-RAY	1	PROVIDE SIMPLEX RECEPTACLE
QUEUING 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 30AMP
CO-LOCATED ETD	2	MAY BE SHARED WITH QUEUING 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
DURESS ALARM REPEATER PANEL	2	CIRCUITS SHARED CAN BE MORE THAN TWO THROUGHOUT CHECKPOINT BUT ONLY CAN INSTALL TWO PER DUPLEX

ALL CIRCUITS TO HAVE 20 AMP SERVICE WITH EXCEPTION TO IT CABINET WHICH SHALL HAVE 30 AMP SERVICE

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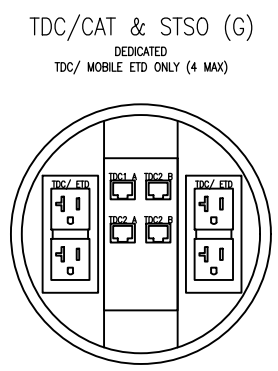
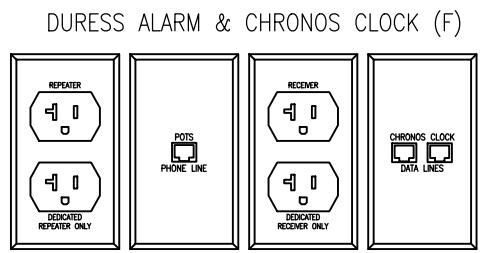
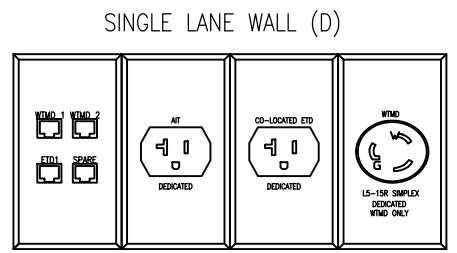
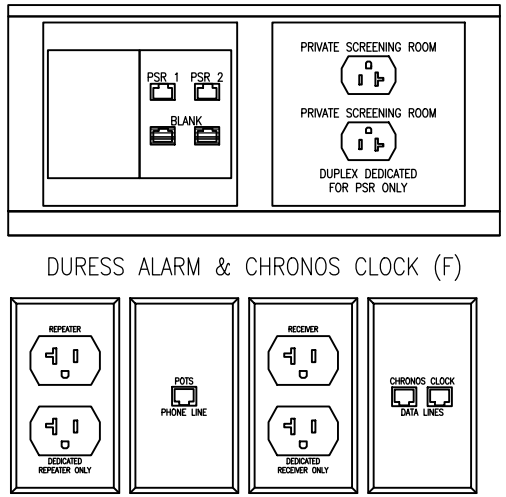
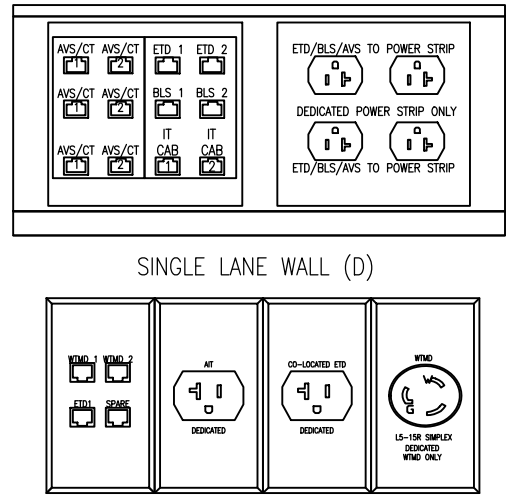
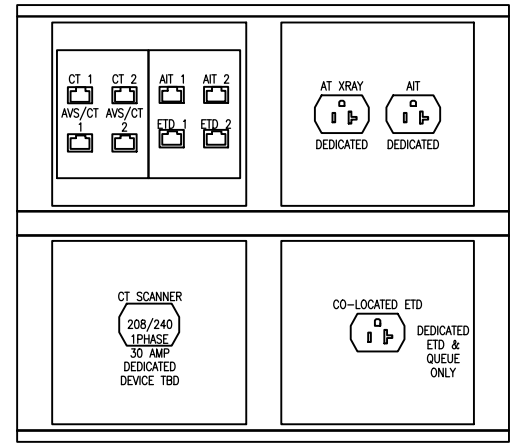
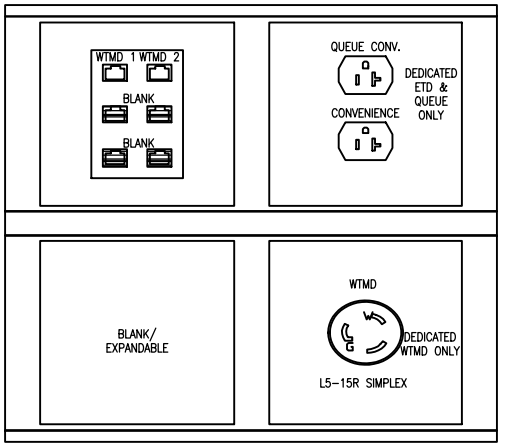
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FRONT XRAY OUTLET (A)

REAR XRAY OUTLET (B)

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

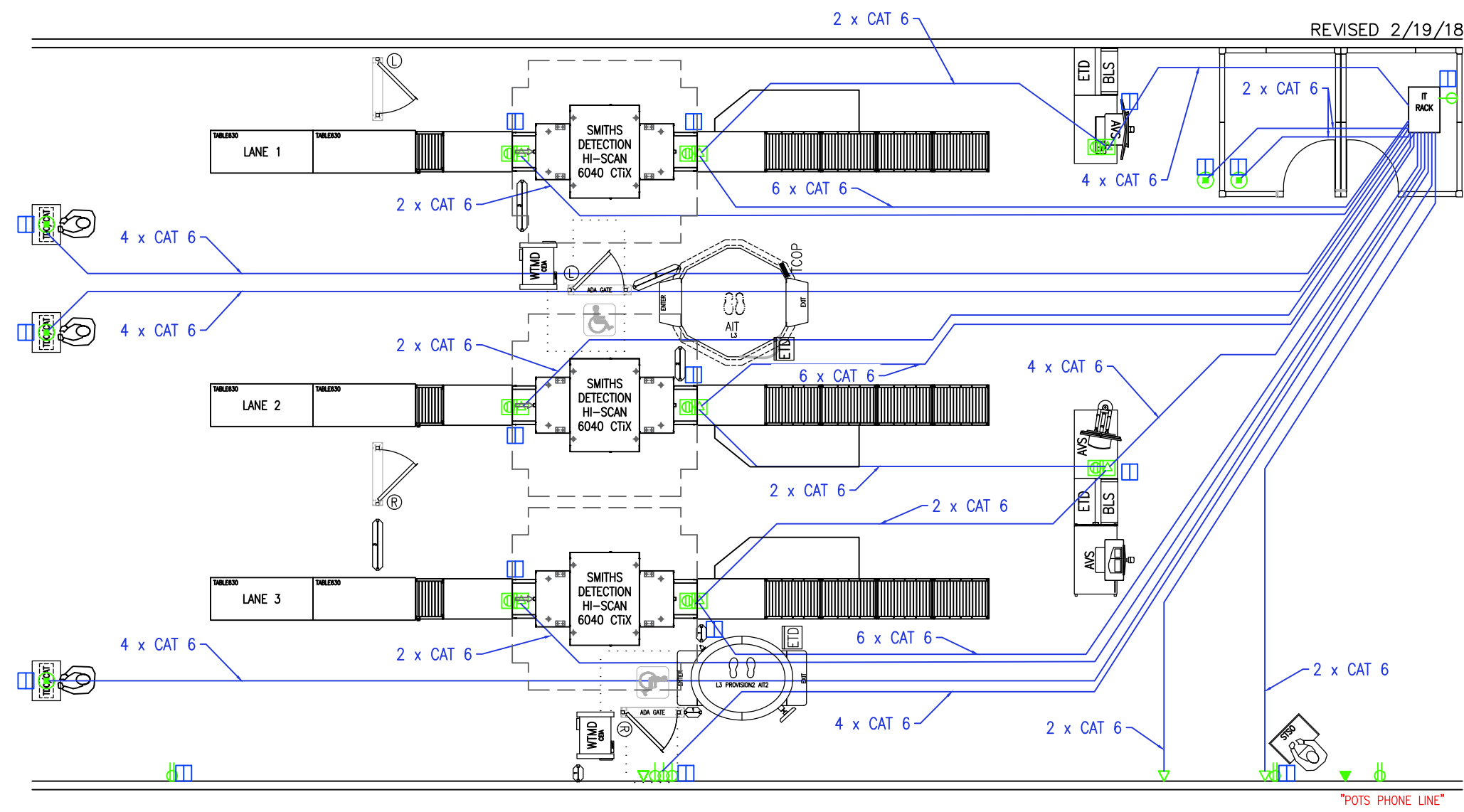
PRIVATE SCREENING ROOM (E)



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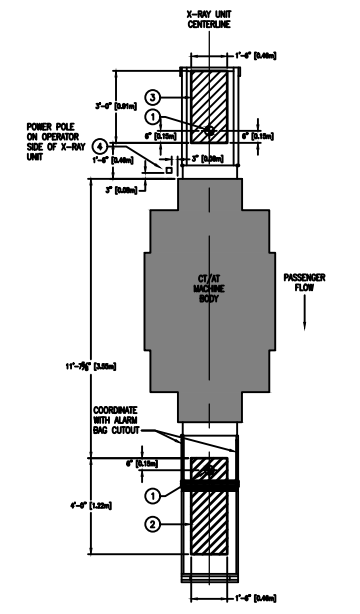
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 4. AVS DATA LINES FROM THE REAR XRAY OUTLET MAY ROUTE THRU THE IT ROOM IF NECESSARY.



REVISED 2/19/18

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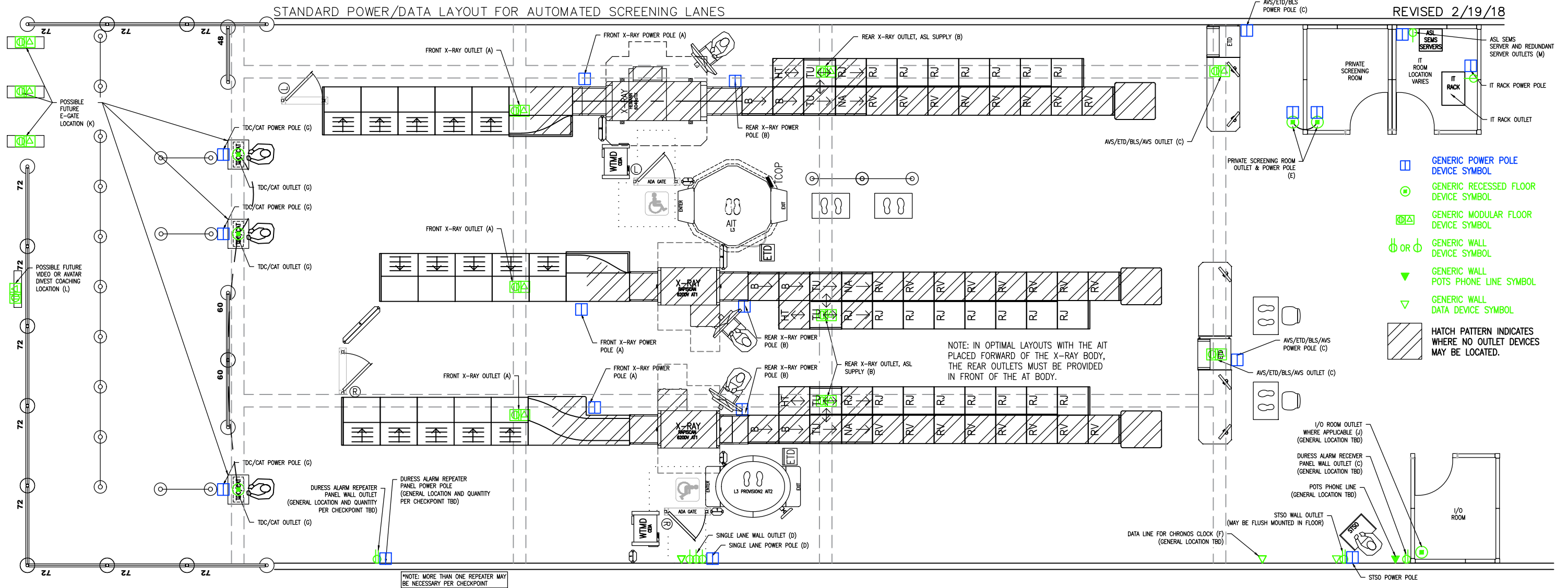
X-RAY DEVICE LOCATIONS

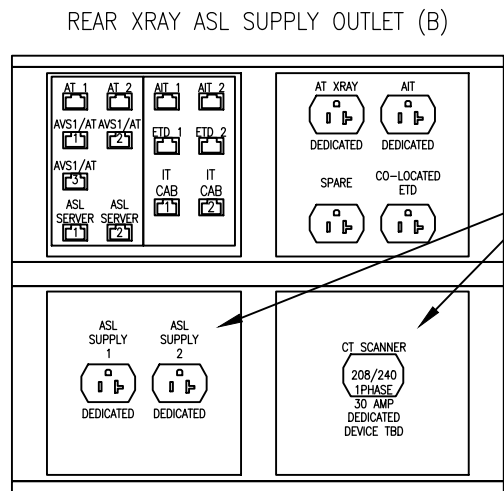
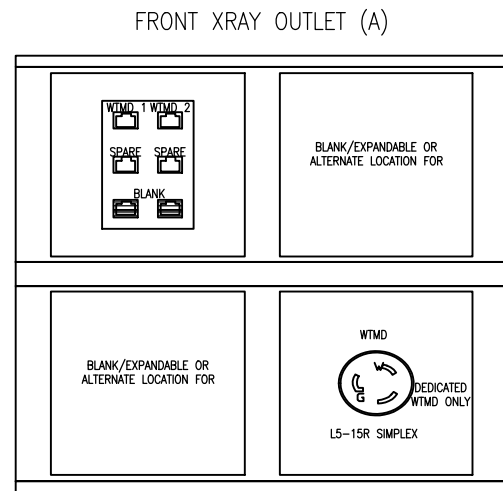


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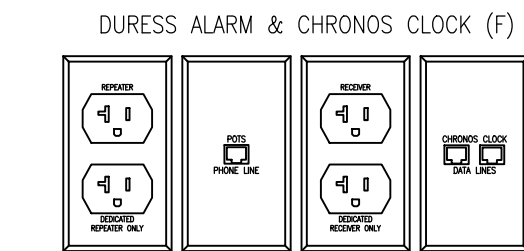
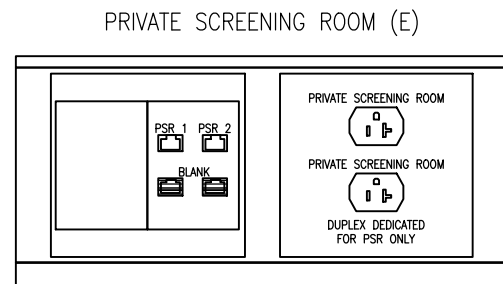
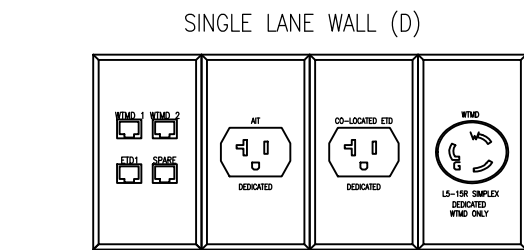
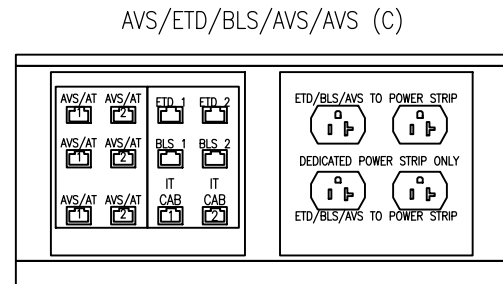
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 - ON SCREEN RESOLUTION, I/O, ROOM TO HAVE 1.4 WORK STATIONS PER LANE ROUNDED UP.
 - ASL SEMS SERVER TO BE LOCATED IN THE TSA IT ROOM. PROVIDE 2 CAT 6 DATA CABLES FROM ASL SEMS SERVER TO THE TSA IT CABINET FOR FUTURE USE.
 - PROVIDE GENERAL CONVENIENCE OUTLETS IN THE BEGINNING, MIDDLE AND END OF PASSENGER QUEUE.
 - LOCATION OF THE E-GATE TURNSTILES WILL BE AT BEGINNING OF THE PASSENGER QUEUE.
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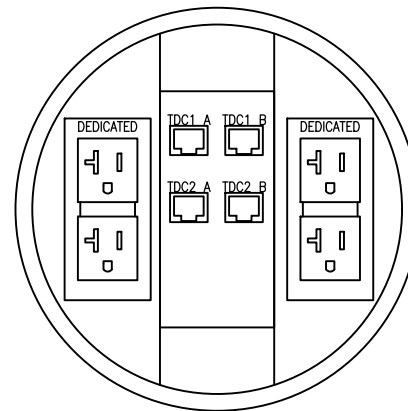


NOTE:

- UP TO 6 208/220V 30A CIRCUITS PER BACK TO BACK LANE 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.

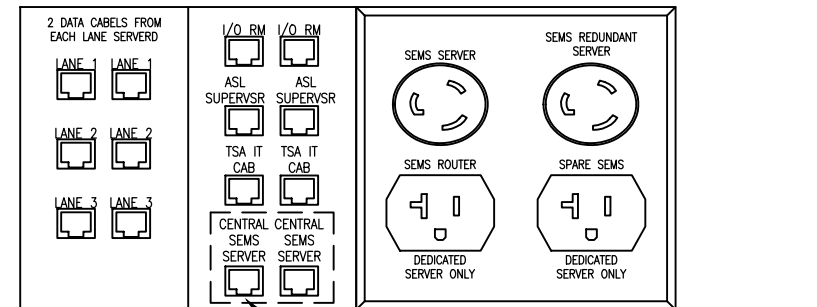


TDC/CAT & STSO PODIUM (G)
DEDICATED



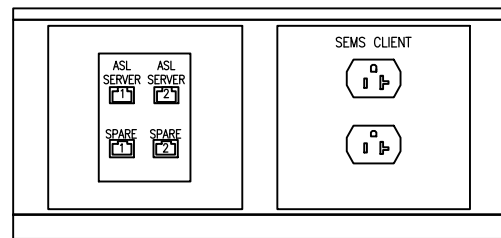
POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC/CAT/E GATE/BAT	1	1 20A CIRCUIT PER LANE
WTMD	10	L5-15R SIMPLEX RECEPTACLE
AT X-RAY	1	PROVIDE SIMPLEX RECEPTACLE
CT SCANNER	1	RECEPTACLE TO BE DETERMINED, PROVIDE DEDICATED 208/240 1PHASE 30AMP
ASL Supply 1	1	PROVIDE DEDICATED 20A SPLIT WIRED DUPLIX RECEPTACLE
ASL Supply 2	1	PROVIDE DEDICATED 20A SPLIT WIRED DUPLIX RECEPTACLE
AIT	1	PROVIDE SIMPLEX RECEPTACLE DEDICATED AT EACH LANE
CO-LOCATED ETD	2	
AVS/AVS/ETD/BLS/AVS	1 SHARED LOCATION/ DEDICATED	OUTLET(S) POWERS RELOCATEABLE POWER TAP/ PROVIDE 2 20AMP CIRCUITS
PRIVATE SCREENING ROOM	1	ONE OUTLET INSIDE AND ONE OUTLET OUTSIDE OF PRIVATE SCREENING ROOM
STSO PODIUM	1	PROVIDE DUPLIX 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 DUPLIX
DURESS ALARM REPEATER PANEL	2	CIRCUITS SHARED CAN BE MORE THAN TWO THROUGHOUT CHECKPOINT BUT ONLY CAN INSTALL TWO PER DUPLIX
E-GATE/BATT	TBD	TBD
PASSENGER PREP/AVATAR	TBD	TBD
ALL CIRCUITS TO HAVE 20 AMP SERVICE WITH EXCEPTION TO IT CABINET AND ASL SERVER CABINET WHICH SHALL HAVE 30 AMP SERVICE		
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)

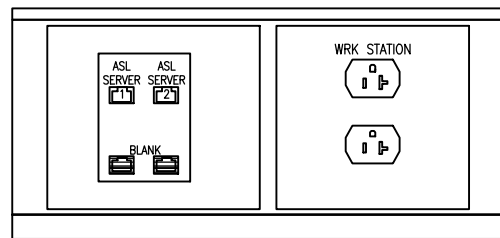


FOR CENTRAL SEMS SERVER SOLUTION CAT6 OR SINGLE MODE FIBER

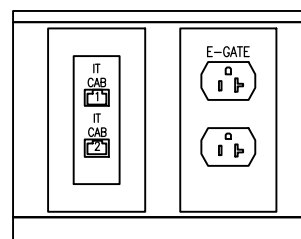
ASL SUPERVISOR CONTROL LOCATION LOCATED AT SUPERVISOR OFFICE (H)
DEDICATED
SEMS CLIENT PC ONLY (2 MAX)



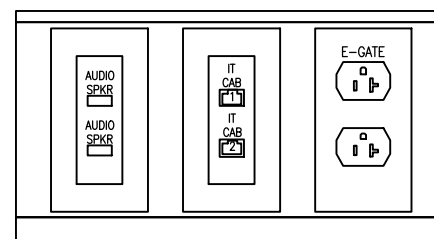
I/O ROOM (J)
DEDICATED
WORK STATIONS ONLY (4 MAX)



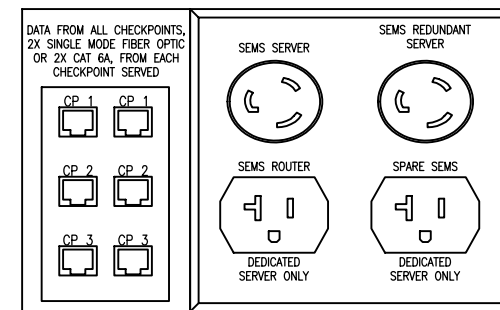
FUTURE E-GATE/BAT (K)
DEDICATED
MAX GATES PER TBD



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



ASL SEMS SERVER - CENTRALIZED (N)

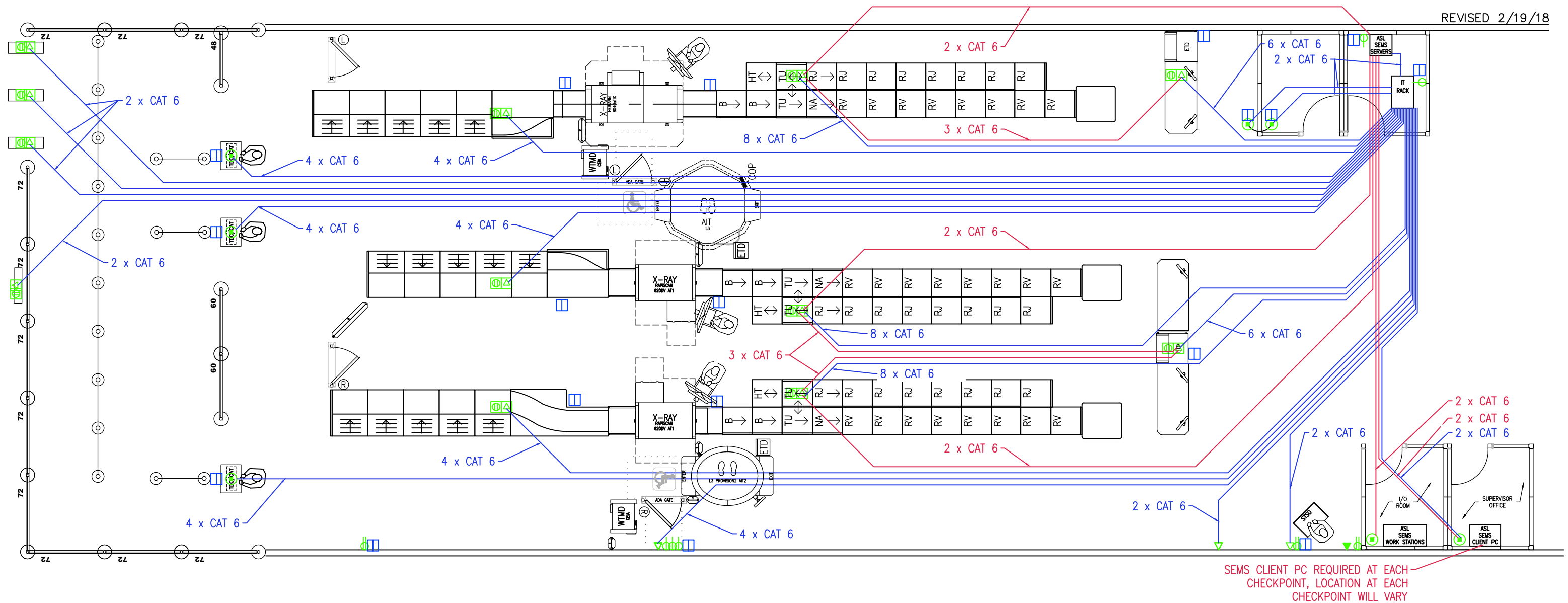


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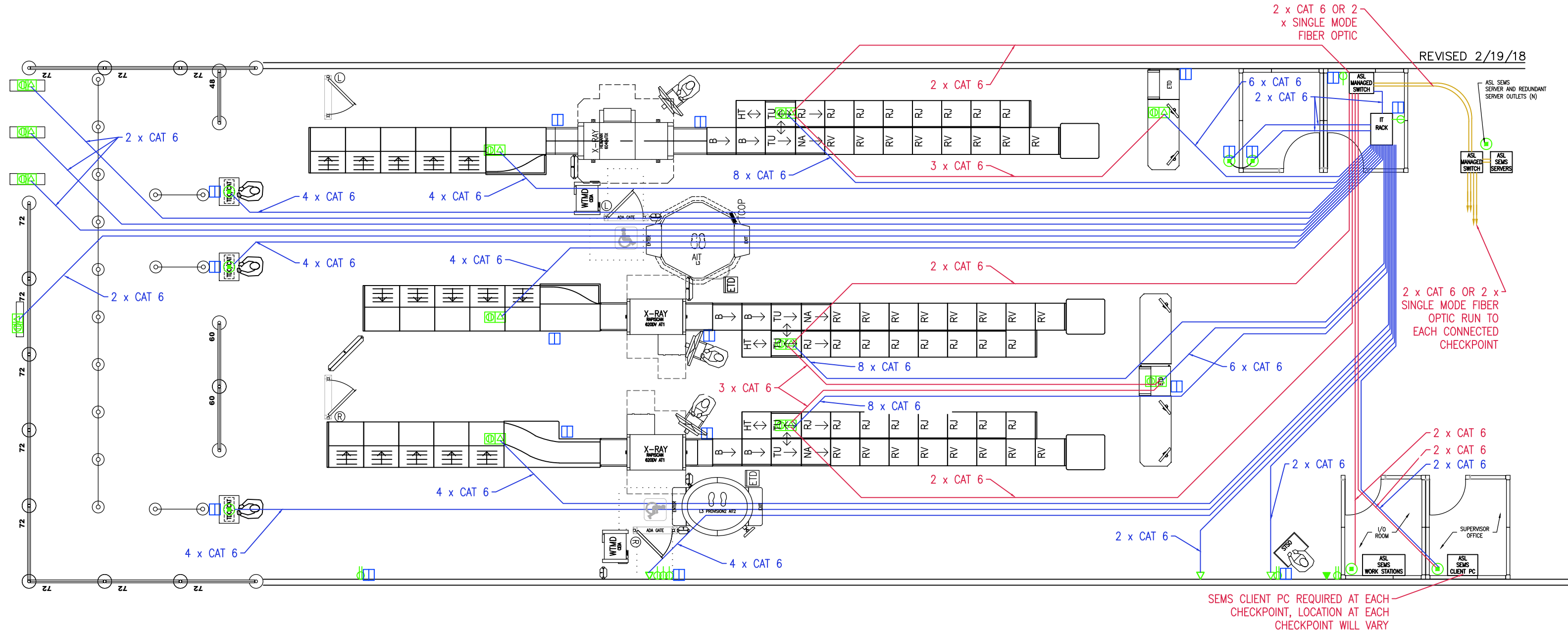
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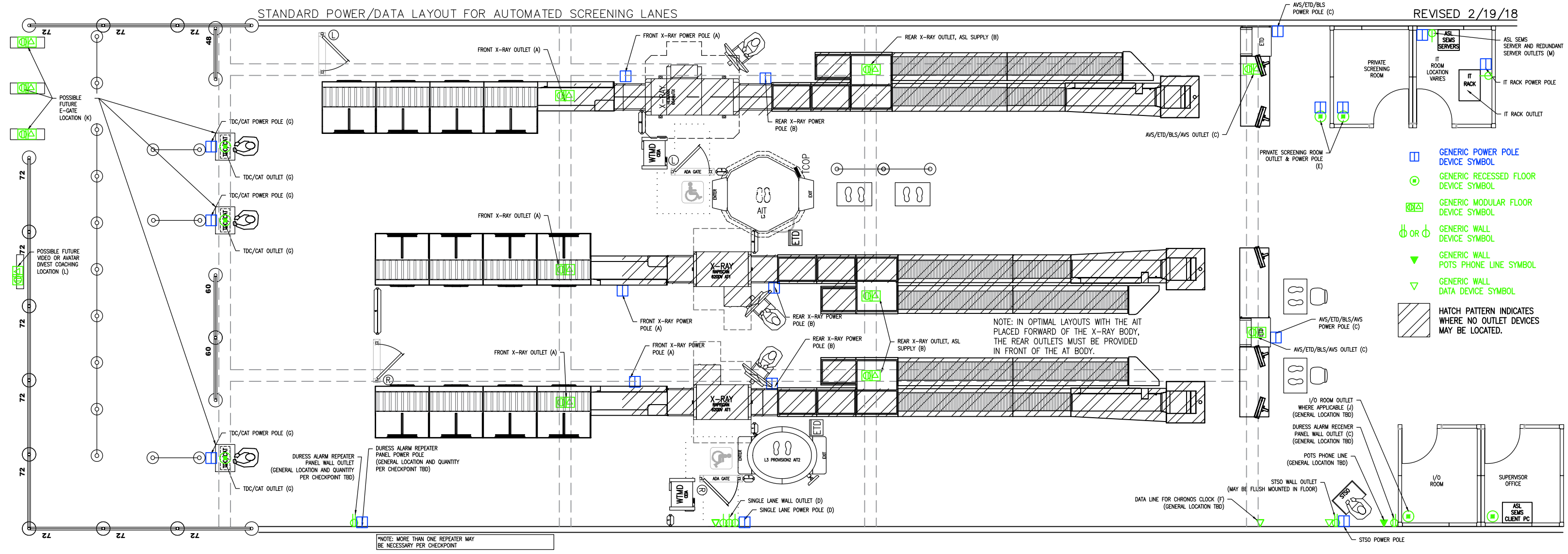
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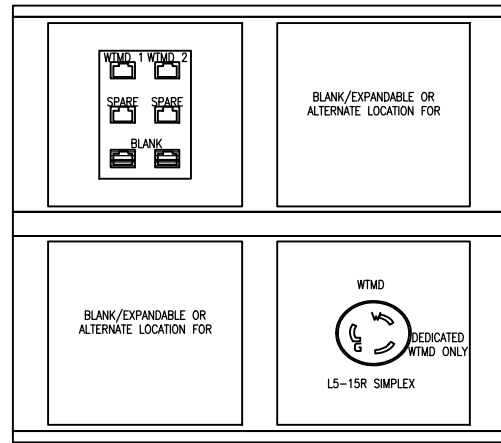
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 - EACH EQUIPMENT LOCATION SHALL UTILIZE EITHER FLOOR OUTLETS OR POWER POLES, BUT NOT BOTH TYPES OF POWER/DATA DEVICES (SELECTION DEPENDS ON AIRPORT BUILDING CONSTRUCTION.)
 - IT IS RECOMMENDED THAT THE PRIVATE SCREENING ROOM, IT ROOM, AND THE STSO PODIUM BE BUILT INTO THE SPACE OF THE AIRPORT.
 - 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.)
 - "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.

STANDARD POWER/DATA LAYOUT FOR AUTOMATED SCREENING LANES

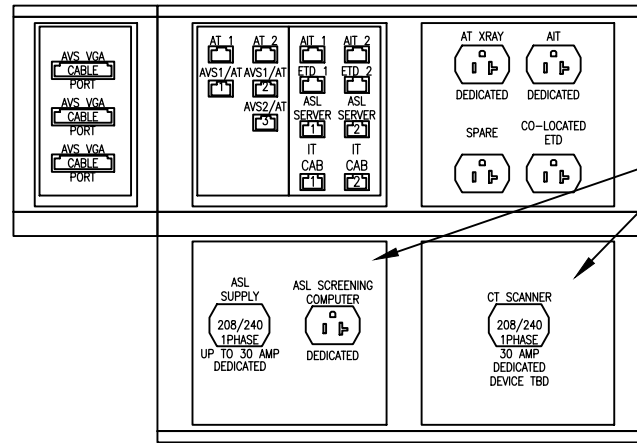
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FRONT XRAY OUTLET (A)



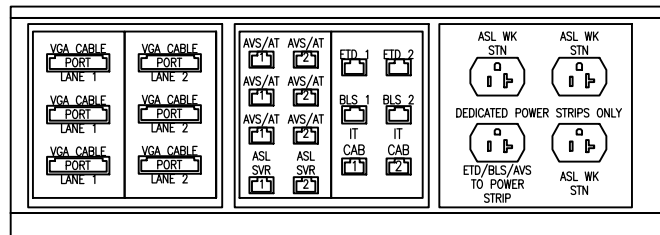
REAR XRAY ASL SUPPLY OUTLET (B)



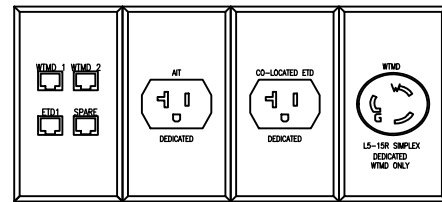
NOTE:

1. UP TO 6 208/220V 30A CIRCUITS PER BACK TO BACK LANE 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.

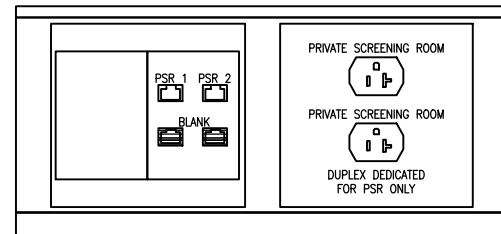
AVS/ETD/BLS/AVS/AVS (C)



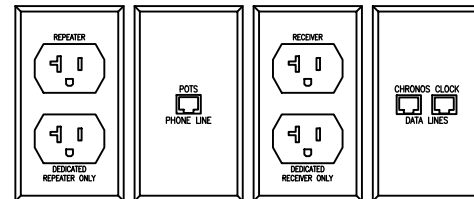
SINGLE LANE WALL (D)



PRIVATE SCREENING ROOM (E)

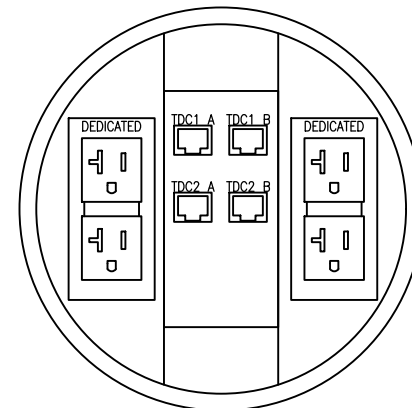


DURESS ALARM & CHRONOS CLOCK (F)



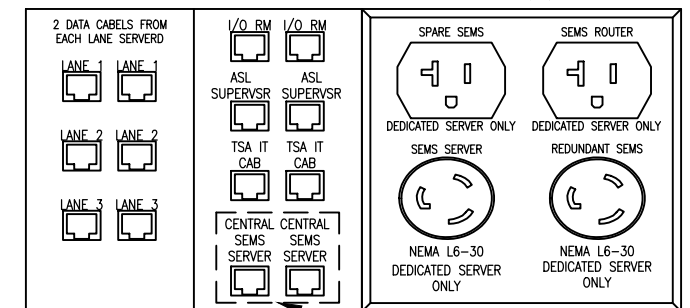
TDC/CAT & STSO PODIUM (G)

DEDICATED



POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC/CAT/E GATE/BAT	1	1 20A CIRCUIT 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 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
CO-LOCATED ETD	2	
AVS/AVS/ETD/BLS/AVS	1 SHARED LOCATION/ DEDICATED	OUTLET(S) POWERS RELOCATEABLE POWER TAP/ PROVIDE 2 20AMP CIRCUITS
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
ALL CIRCUITS TO HAVE 20 AMP SERVICE WITH EXCEPTION TO IT CABINET AND ASL SERVER CABINET WHICH SHALL HAVE 30 AMP SERVICE		
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"		

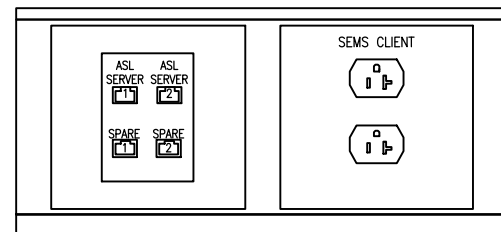
ASL IT ROOM SEMS COLLOCATED SERVER OR MANAGED SWITCH FOR CENTRAL SERVER- (M)



FOR CENTRAL SEMS SERVER SOLUTION CAT6 OR SINGLE MODE FIBER

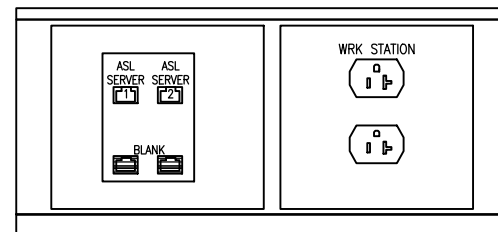
ASL SUPERVISOR CONTROL LOCATION LOCATED AT SUPERVISOR OFFICE (H)

DEDICATED SEMS CLIENT PC ONLY (2 MAX)



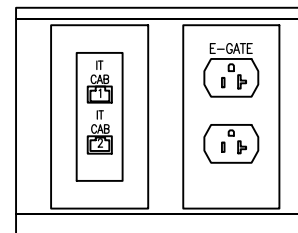
I/O ROOM (J)

DEDICATED WORK STATIONS ONLY (4 MAX)



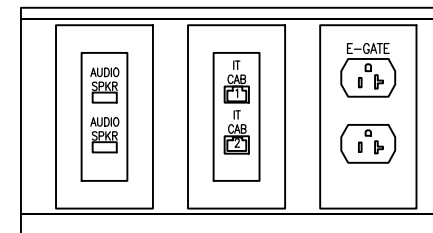
FUTURE E-GATE/BAT (K)

DEDICATED MAX GATES PER TBD

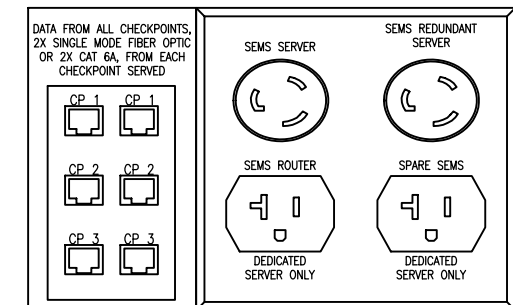


FUTURE PASSENGER PREP/AVATAR (L)

DEDICATED MAX GATES PER TBD



ASL SEMS SERVER - CENTRALIZED (N)



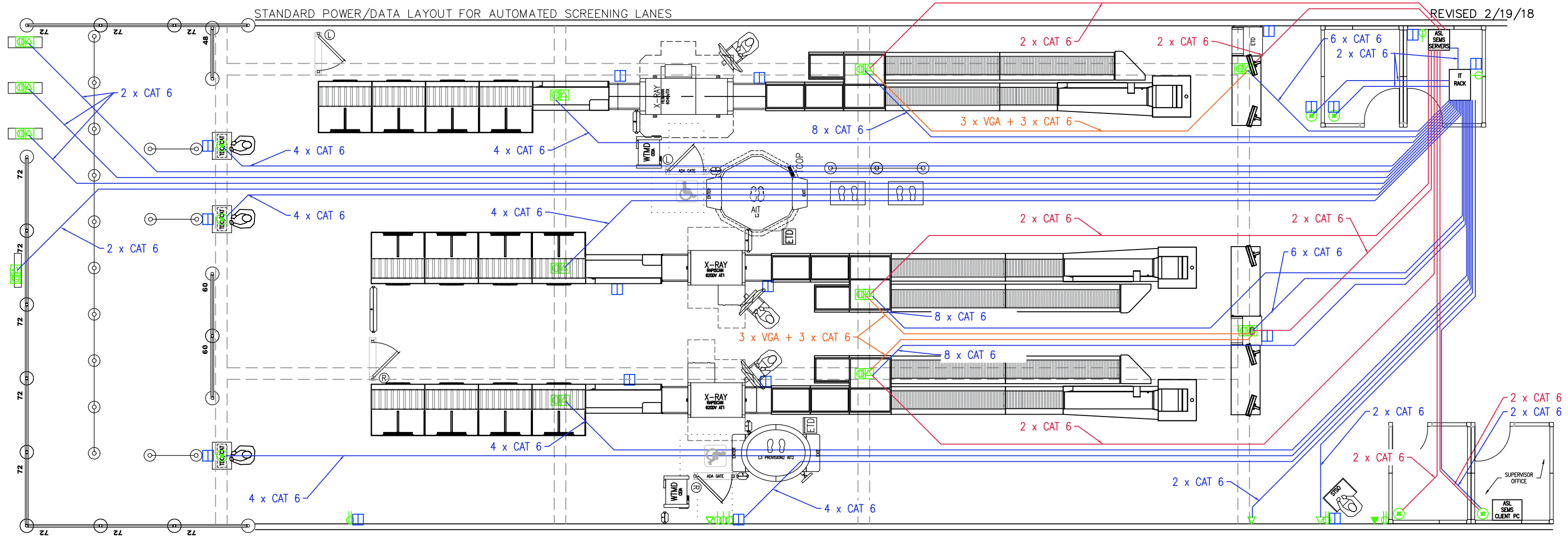
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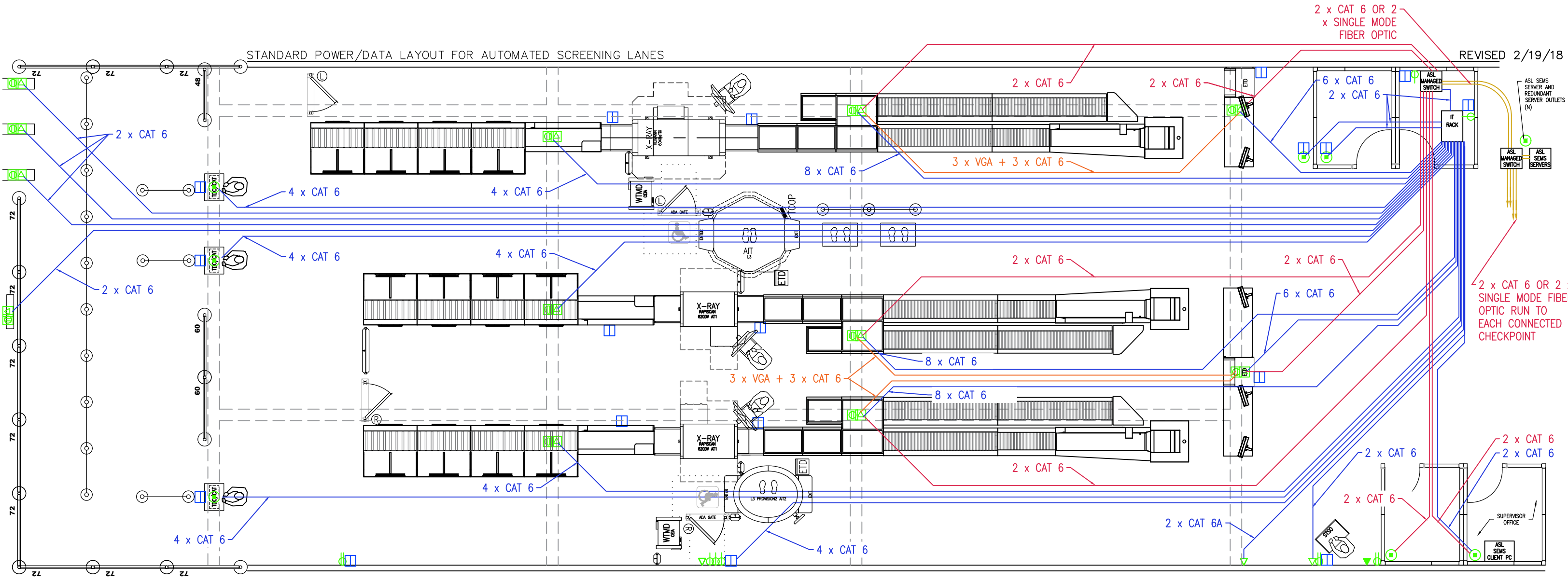
REVISED 2/19/18



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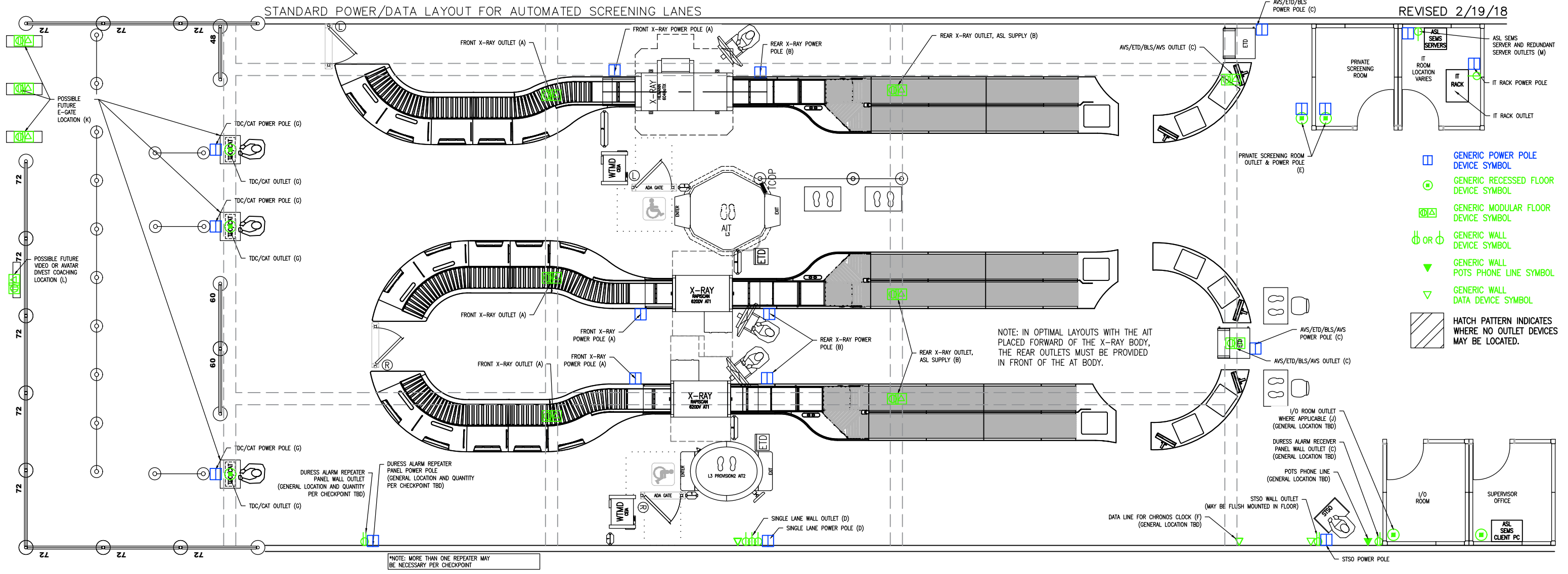
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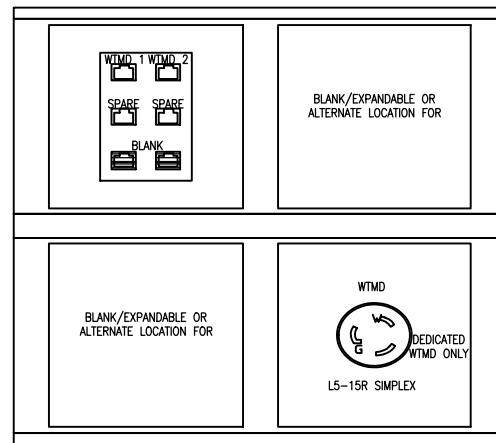
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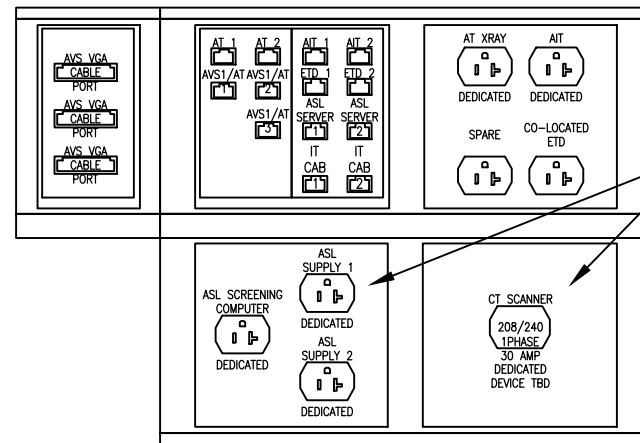
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FRONT XRAY OUTLET (A)



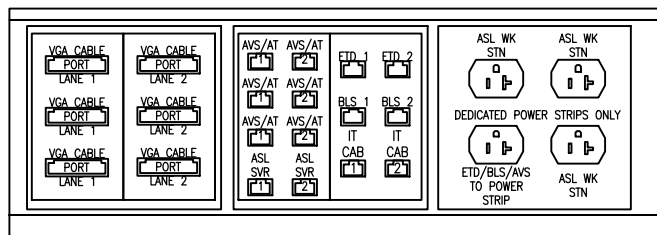
REAR XRAY ASL SUPPLY OUTLET (B)



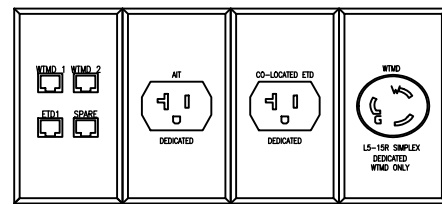
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- VERIFY OUTLET DEVICE TYPE FOR DEDICATED CIRCUITS WITH OEM VENDOR, TYP.

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

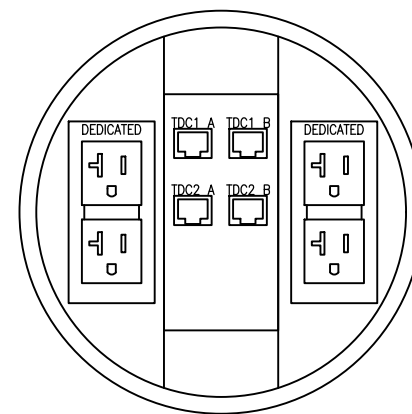


SINGLE LANE WALL (D)



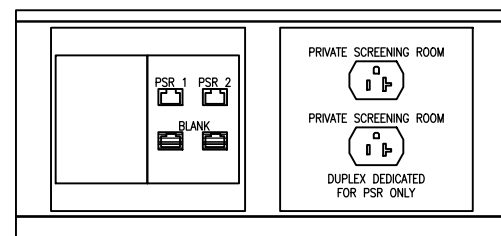
TDC/CAT & STSO PODIUM (G)

DEDICATED

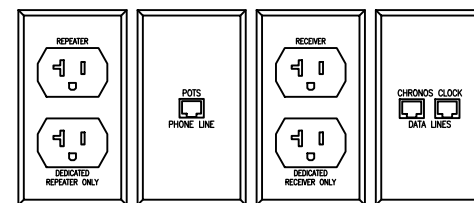


POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC/CAT/E GATE/BAT	1	1 20A CIRCUIT PER LANE
WTMD	10	L5-15R SIMPLEX RECEPTACLE
AT X-RAY	1	PROVIDE SIMPLEX RECEPTACLE
CT SCANNER	1	RECEPTACLE TO BE DETERMINED, PROVIDE DEDICATED 208/240 1PHASE 30AMP
ASL Supply	1	2 x DEDICATED 20AMP PER LANE
ASL SCREENING COMPUTER	1	1 20A CIRCUIT PER LANE
AIT	1	PROVIDE SIMPLEX RECEPTACLE DEDICATED AT EACH LANE
CO-LOCATED ETD	2	
AVS/AVS/ETD/BLS/AVS	1 SHARED LOCATION/ DEDICATED	OUTLET(S) POWERS RELOCATEABLE POWER TAP/ PROVIDE 2 20AMP CIRCUITS
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
ALL CIRCUITS TO HAVE 20 AMP SERVICE WITH EXCEPTION TO IT CABINET AND ASL SERVER CABINET WHICH SHALL HAVE 30 AMP SERVICE		
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"		

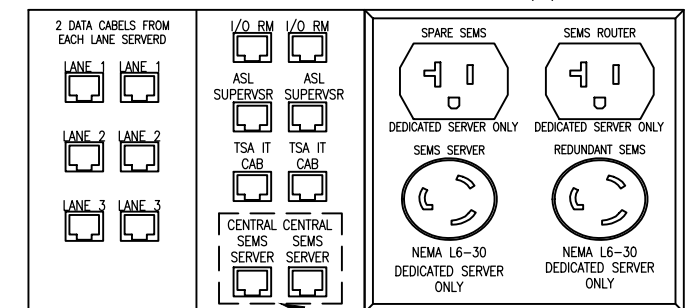
PRIVATE SCREENING ROOM (E)



DURESS ALARM & CHRONOS CLOCK (F)

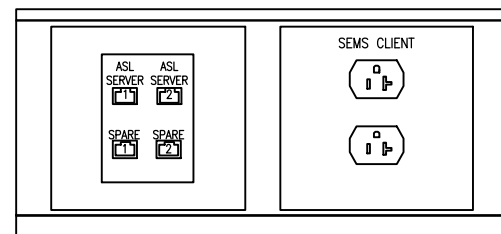


ASL IT ROOM SEMS COLLOCATED SERVER OR MANAGED SWITCH FOR CENTRAL SERVER- (M)



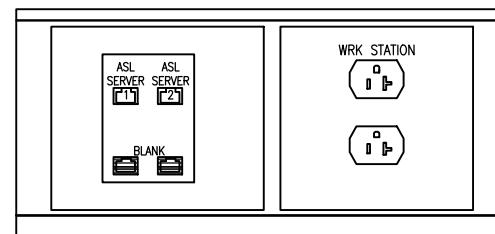
FOR CENTRAL SEMS SERVER SOLUTION CAT6 OR SINGLE MODE FIBER

ASL SUPERVISOR CONTROL LOCATION LOCATED AT SUPERVISOR OFFICE (H)



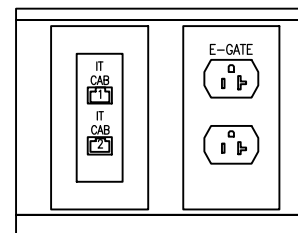
I/O ROOM (J)

DEDICATED WORK STATIONS ONLY (4 MAX)



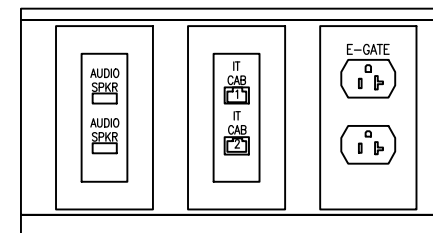
FUTURE E-GATE/BAT (K)

DEDICATED MAX GATES PER TBD

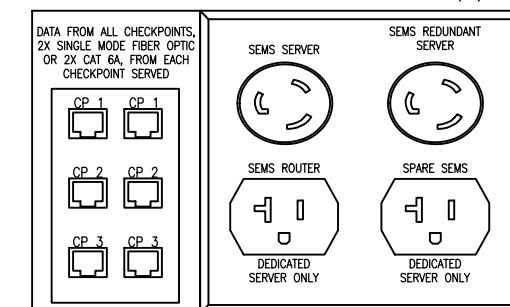


FUTURE PASSENGER PREP/AVATAR (L)

DEDICATED MAX GATES PER TBD



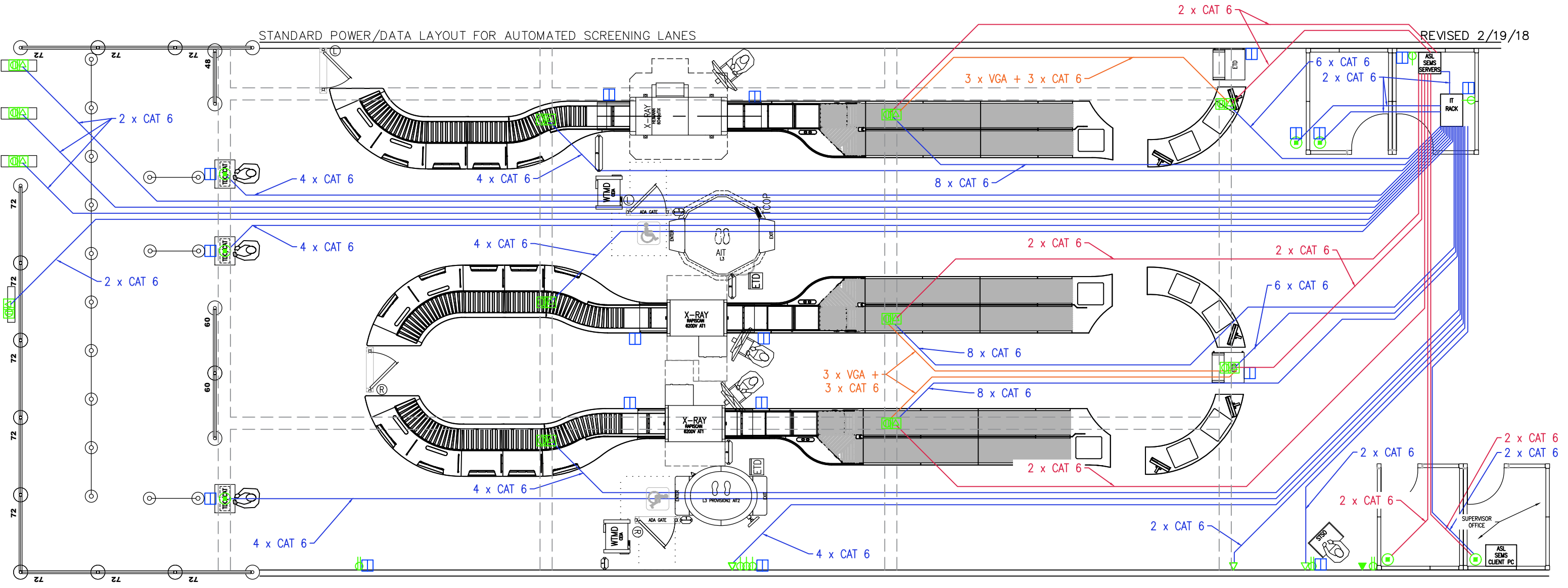
ASL SEMS SERVER - CENTRALIZED (N)



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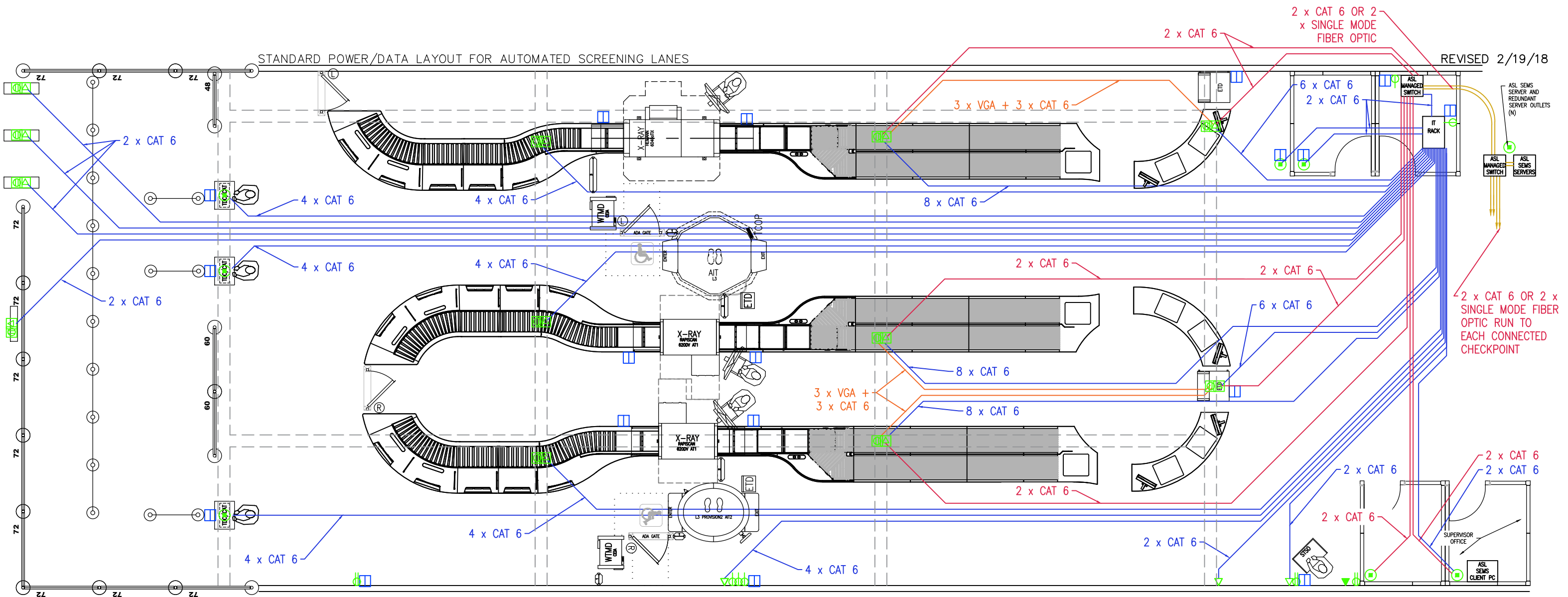
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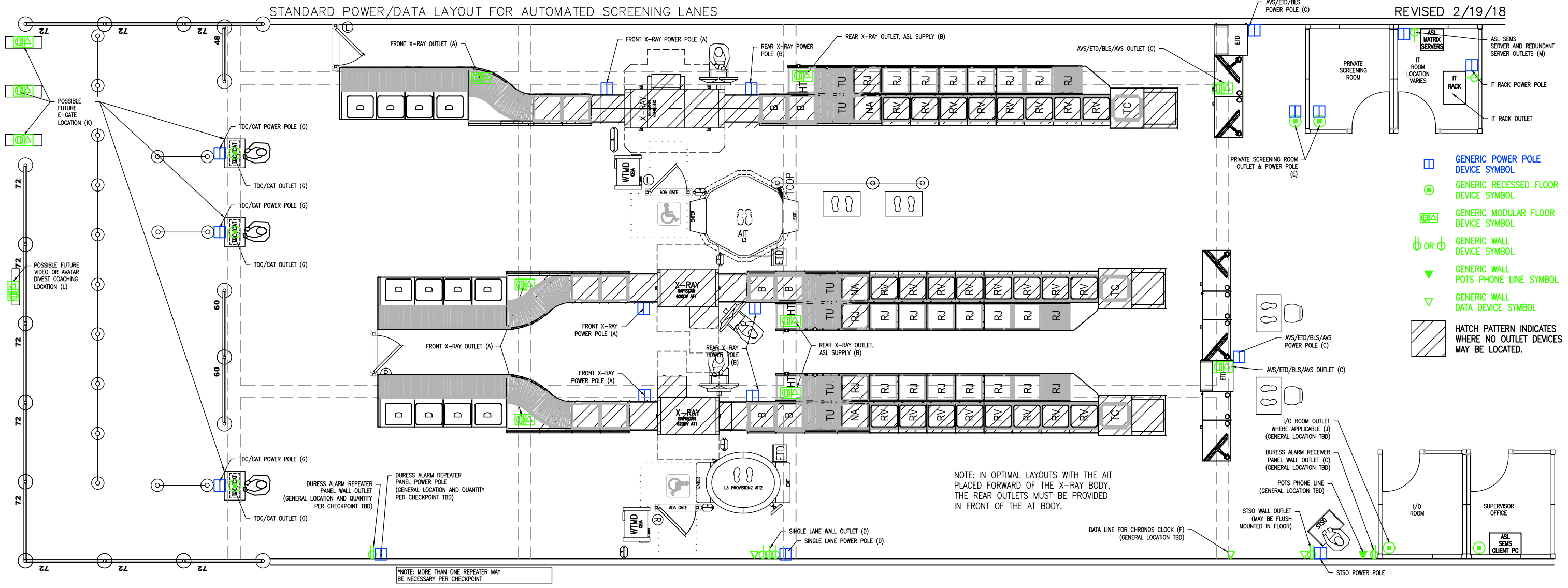
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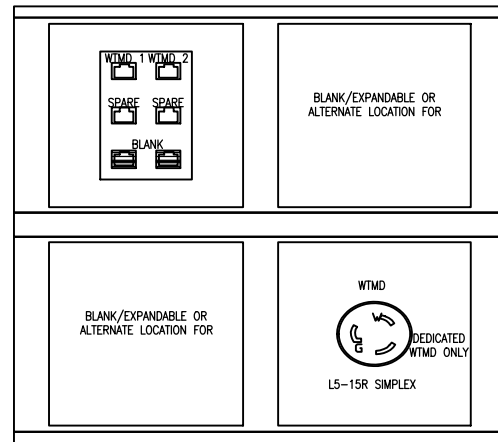
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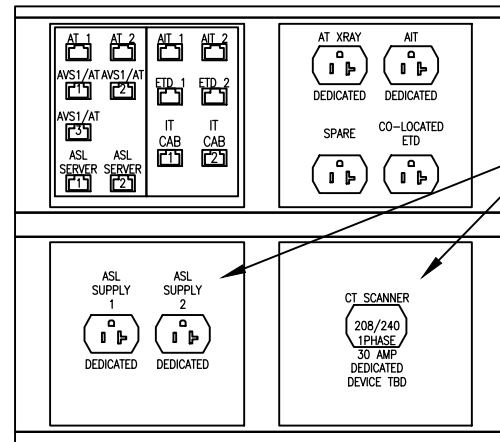
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FRONT XRAY OUTLET (A)



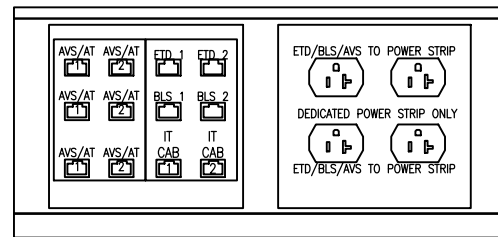
REAR XRAY ASL SUPPLY OUTLET (B)



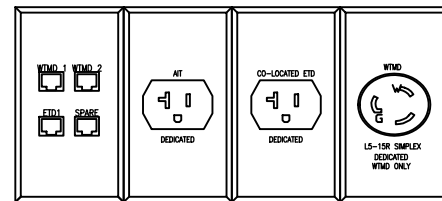
NOTE:

- UP TO 6 208/220V 30A CIRCUITS PER BACK TO BACK LANE 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.

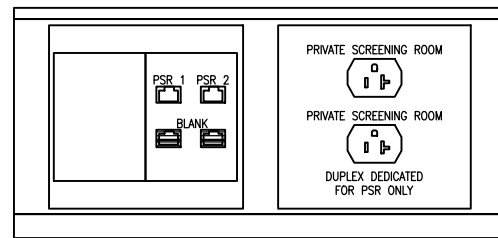
AVS/ETD/BLS/AVS/AVS (C)



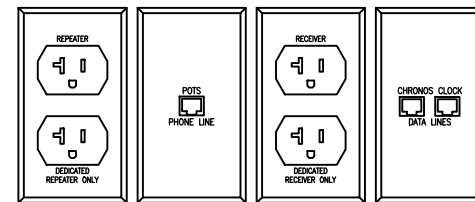
SINGLE LANE WALL (D)



PRIVATE SCREENING ROOM (E)

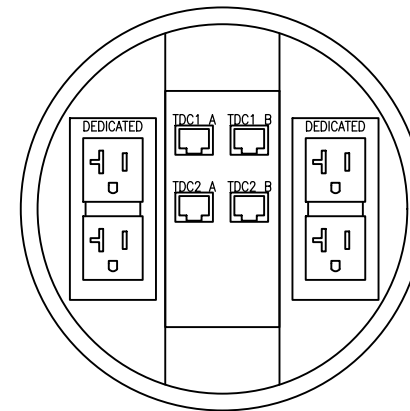


DURESS ALARM & CHRONOS CLOCK (F)

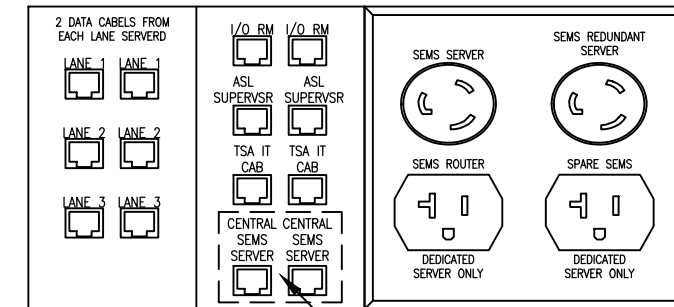


TDC/CAT & STSO PODIUM (G)

DEDICATED



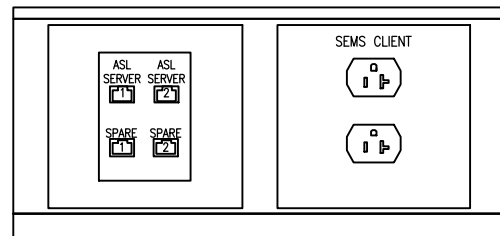
ASL IT ROOM SEMS COLLOCATED SERVER OR MANAGED SWITCH FOR CENTRAL SERVER-- (M)



FOR CENTRAL SEMS SERVER SOLUTION CAT6 OR SINGLE MODE FIBER

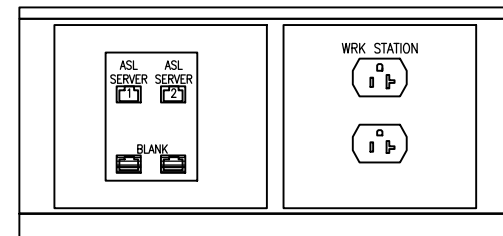
ASL SUPERVISOR CONTROL LOCATION LOCATED AT SUPERVISOR OFFICE (H)

DEDICATED SEMS CLIENT PC ONLY (2 MAX)



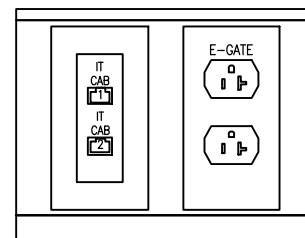
I/O ROOM (J)

DEDICATED WORK STATIONS ONLY (4 MAX)



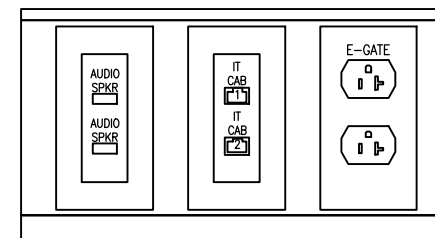
FUTURE E-GATE/BAT (K)

DEDICATED MAX GATES PER TBD

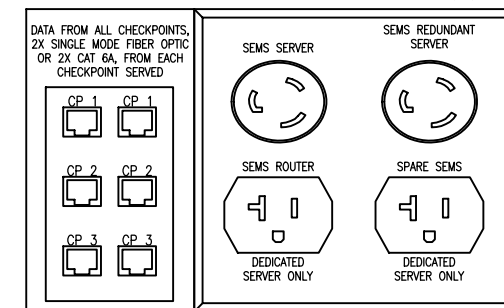


FUTURE PASSENGER PREP/AVATAR (L)

DEDICATED MAX GATES PER TBD



ASL SEMS SERVER - CENTRALIZED (N)



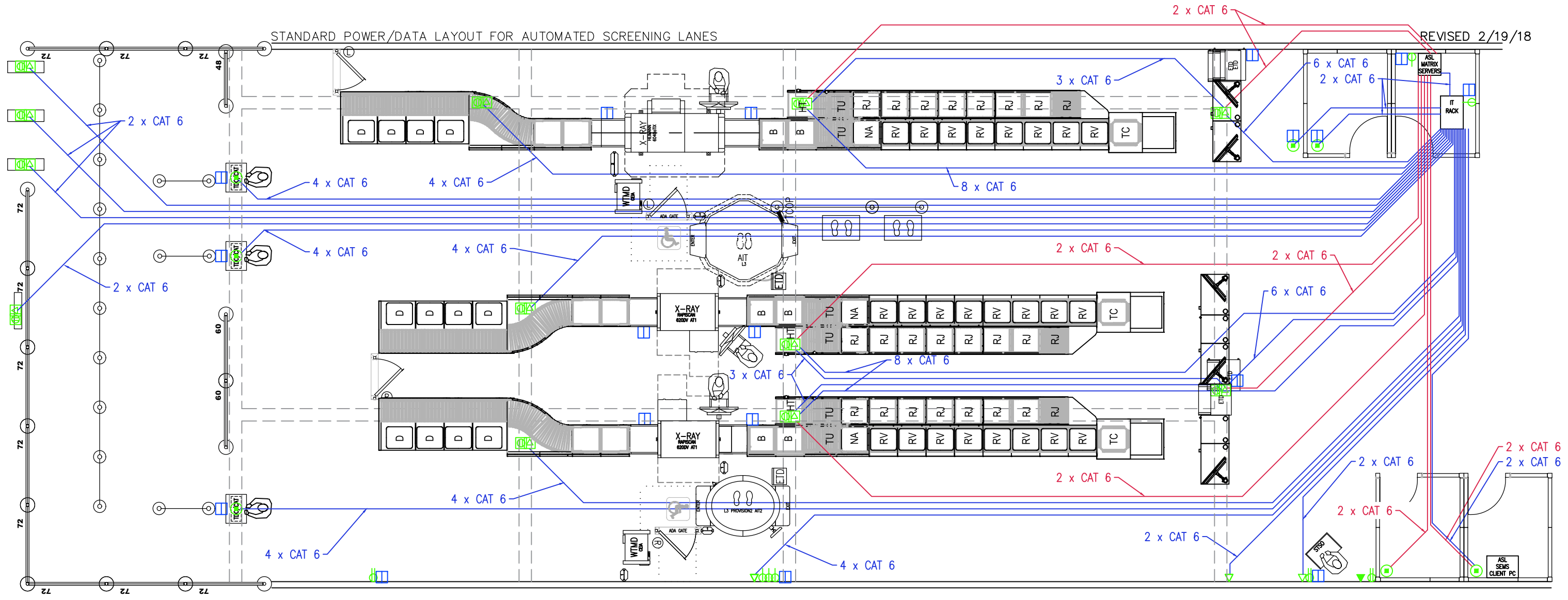
POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC/CAT/E GATE/BAT	1	1 20A CIRCUIT PER LANE
WTMID	10	L5-15R SIMPLEX RECEPTACLE
AT X-RAY	1	PROVIDE SIMPLEX RECEPTACLE
CT SCANNER	1	RECEPTACLE TO BE DETERMINED, PROVIDE DEDICATED 208/240 1PHASE 30AMP
ASL Supply 1	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
CO-LOCATED ETD	2	
AVS/AVS/ETD/BLS/AVS	1 SHARED LOCATION/ DEDICATED	OUTLET(S) POWERS RELOCATEABLE POWER TAP/ PROVIDE 2 20AMP CIRCUITS
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
ALL CIRCUITS TO HAVE 20 AMP SERVICE WITH EXCEPTION TO IT CABINET AND ASL SERVER CABINET WHICH SHALL HAVE 30 AMP SERVICE		
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"		



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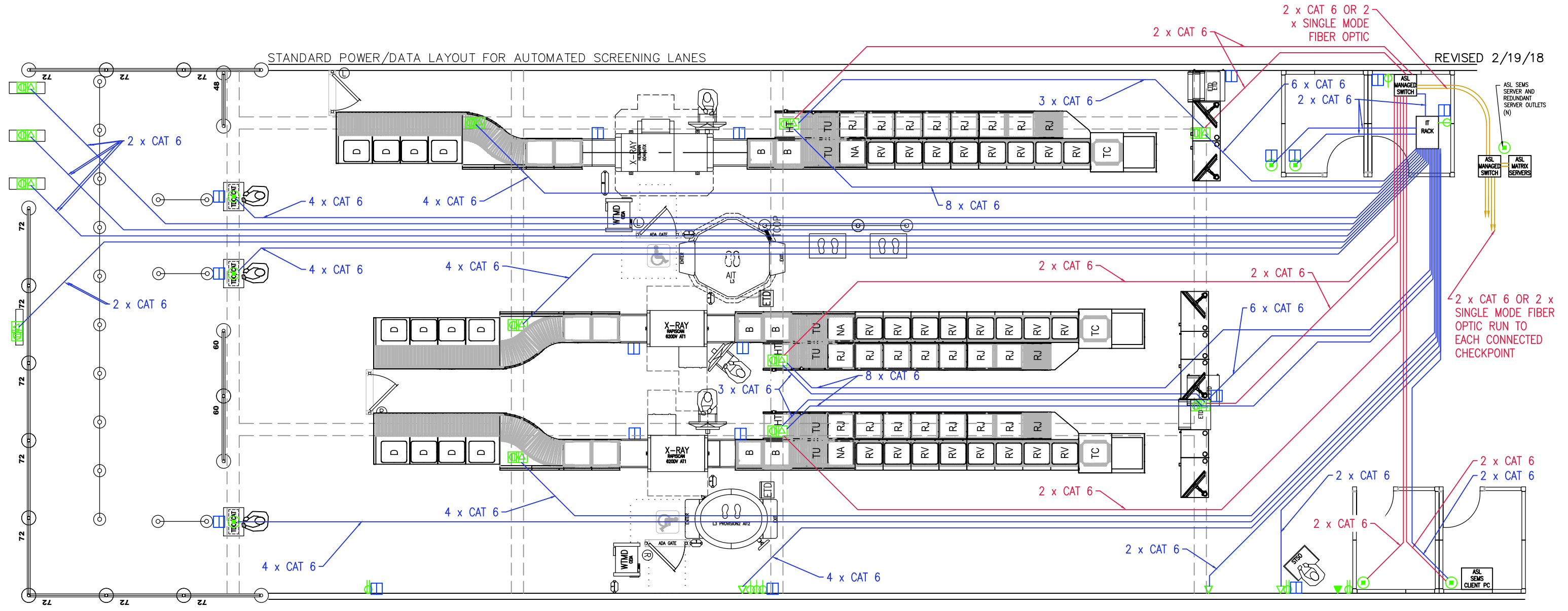
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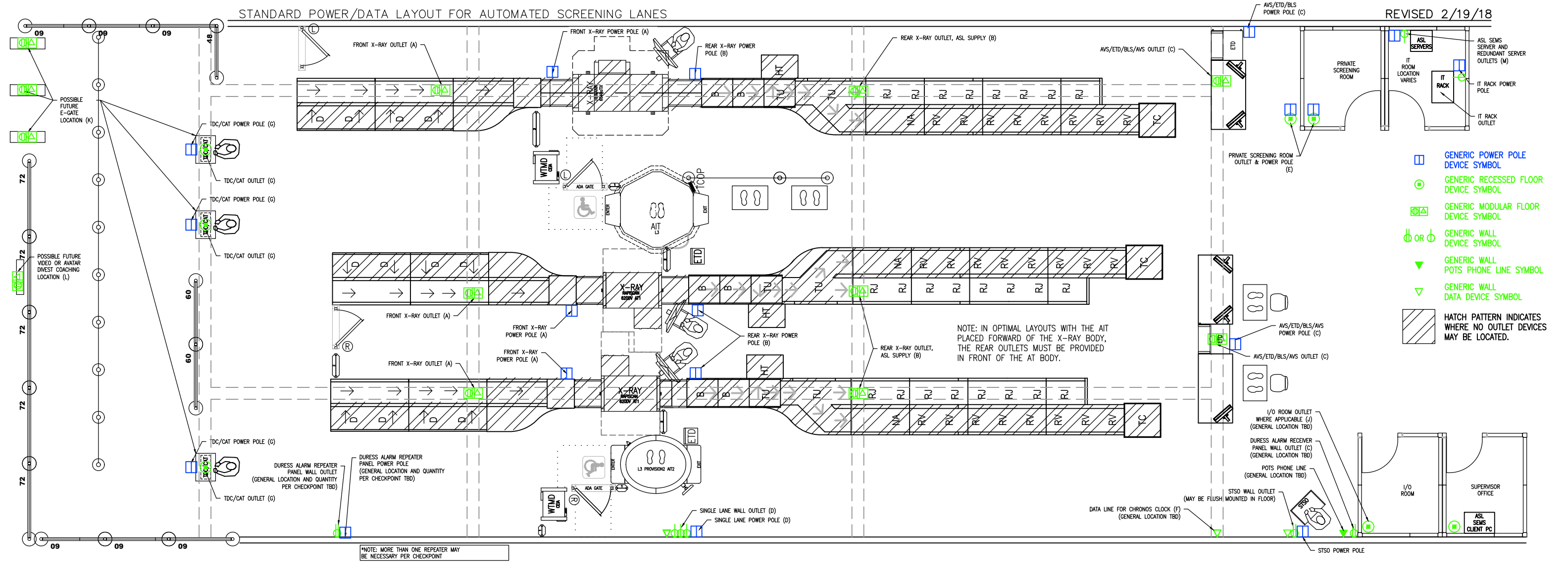
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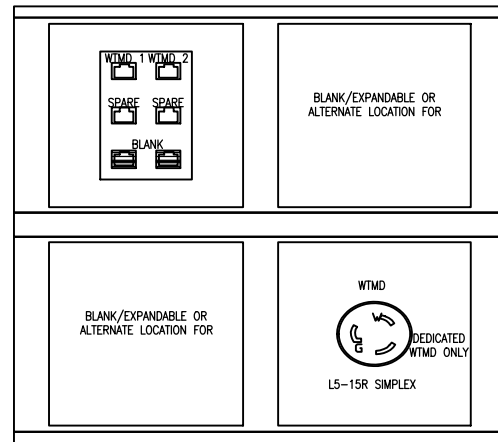
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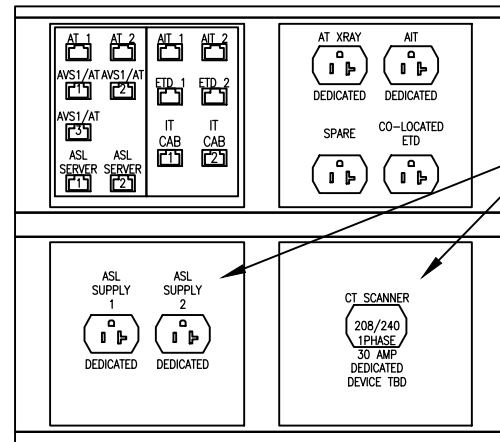
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FRONT XRAY OUTLET (A)



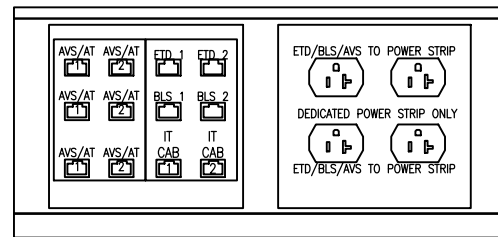
REAR XRAY ASL SUPPLY OUTLET (B)



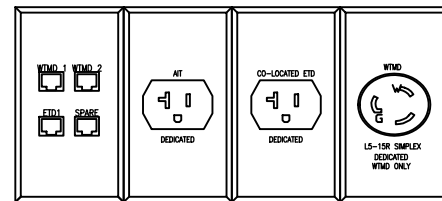
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- VERIFY OUTLET DEVICE TYPE FOR DEDICATED CIRCUITS WITH OEM VENDOR, TYP.

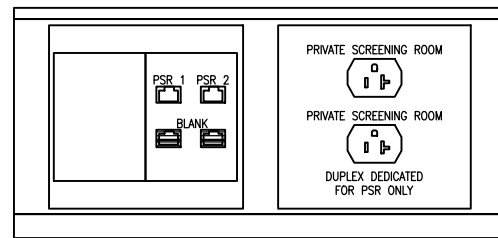
AVS/ETD/BLS/AVS/AVS (C)



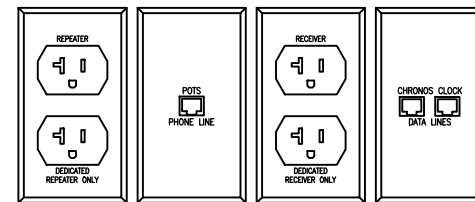
SINGLE LANE WALL (D)



PRIVATE SCREENING ROOM (E)

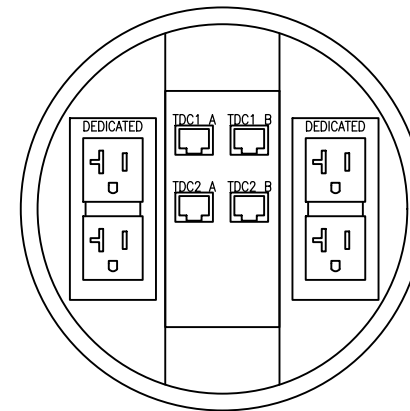


DURESS ALARM & CHRONOS CLOCK (F)

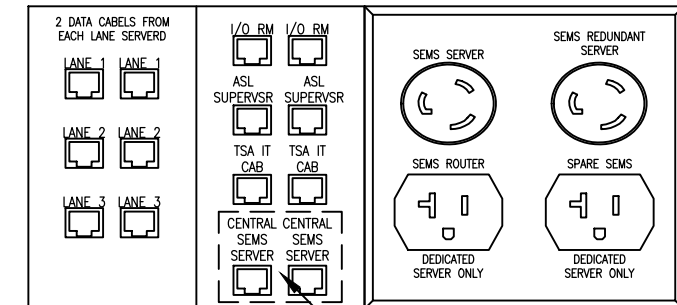


TDC/CAT & STSO PODIUM (G)

DEDICATED



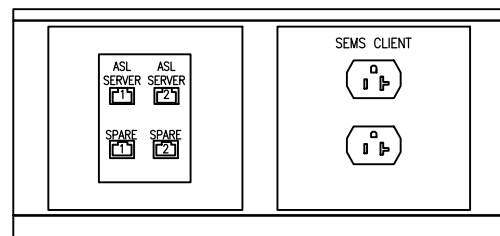
ASL IT ROOM SEMS COLLOCATED SERVER OR MANAGED SWITCH FOR CENTRAL SERVER-- (M)



FOR CENTRAL SEMS SERVER SOLUTION CAT6 OR SINGLE MODE FIBER

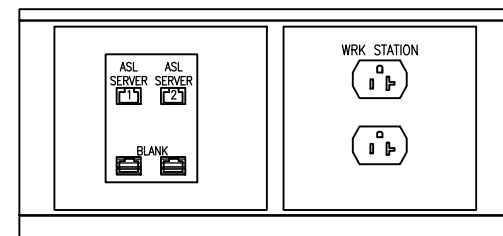
ASL SUPERVISOR CONTROL LOCATION LOCATED AT SUPERVISOR OFFICE (H)

DEDICATED SEMS CLIENT PC ONLY (2 MAX)



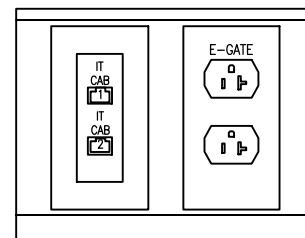
I/O ROOM (J)

DEDICATED WORK STATIONS ONLY (4 MAX)



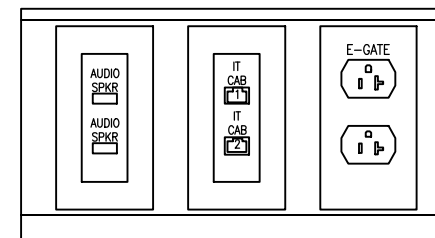
FUTURE E-GATE/BAT (K)

DEDICATED MAX GATES PER TBD

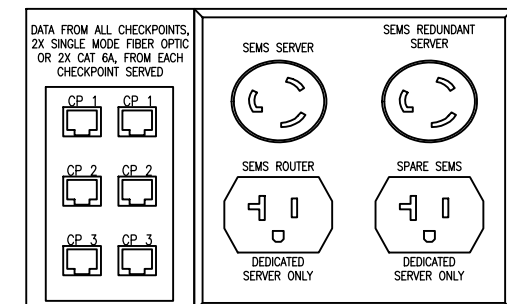


FUTURE PASSENGER PREP/AVATAR (L)

DEDICATED MAX GATES PER TBD



ASL SEMS SERVER - CENTRALIZED (N)



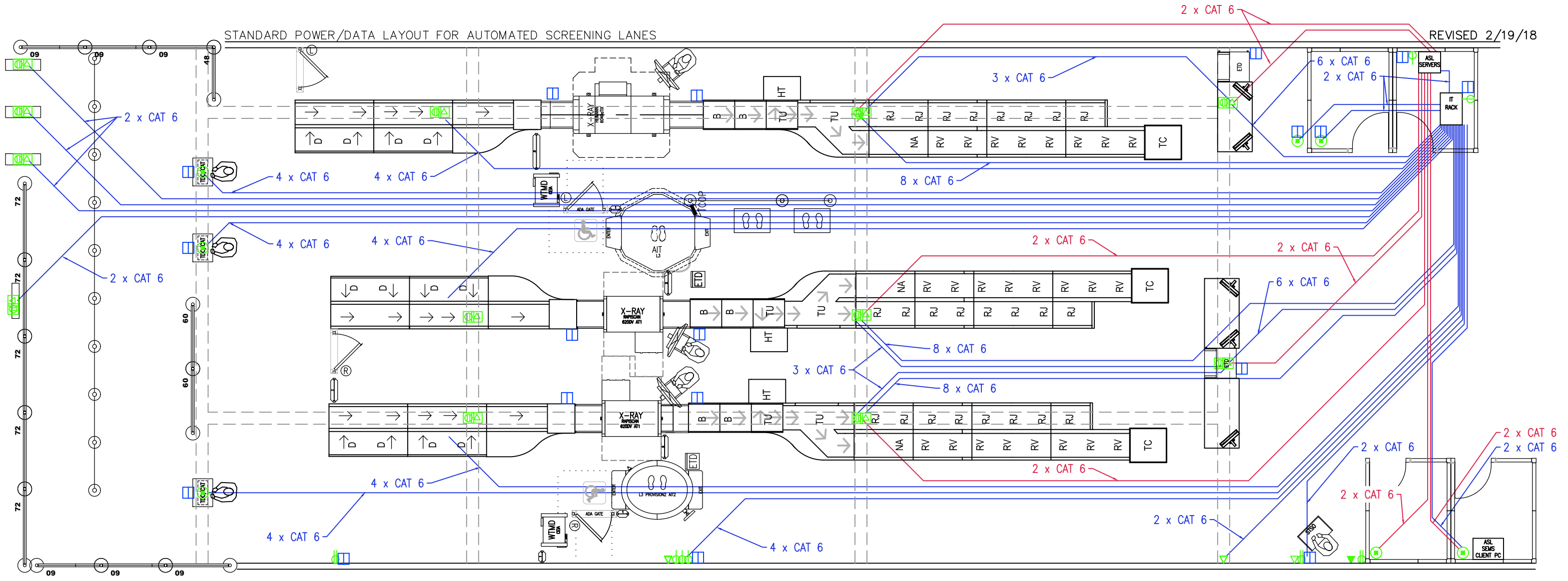
POWER REQUIREMENTS		
EQUIPMENT	MAX NUMBER OF EQUIPMENT ALLOWED PER DEDICATED CIRCUIT	NOTES
TDC/CAT/E GATE/BAT	1	1 20A CIRCUIT PER LANE
WTMD	10	L5-15R SIMPLEX RECEPTACLE
AT X-RAY	1	PROVIDE SIMPLEX RECEPTACLE
CT SCANNER	1	RECEPTACLE TO BE DETERMINED, PROVIDE DEDICATED 208/240 1PHASE 30AMP
ASL Supply 1	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
CO-LOCATED ETD	2	
AVS/AVS/ETD/BLS/AVS	1 SHARED LOCATION/ DEDICATED	OUTLET(S) POWERS RELOCATEABLE POWER TAP/ PROVIDE 2 20AMP CIRCUITS
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
ALL CIRCUITS TO HAVE 20 AMP SERVICE WITH EXCEPTION TO IT CABINET AND ASL SERVER CABINET WHICH SHALL HAVE 30 AMP SERVICE		
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"		



SPECIAL SCOPE NOTE:
PLEASE NOTE THAT ANY COSTS ASSOCIATED WITH THE PLANNING, DESIGN AND/OR OTHER ASPECTS OF THIS PROJECT ARE THE SOLE RESPONSIBILITY OF THE AIRPORT AND/OR AIRLINE AND TSA WILL NOT BE LIABLE FOR ANY COSTS OR REIMBURSEMENT FOR ANY ASPECT OF THE PROJECT.

SPECIAL IT NOTE:
ALL IT ROOMS, I/O ROOMS AND PRIVATE SCREENING ROOMS ARE NON-LEASED SPACE. ALL IT ROOMS NEED TO BE CLEARED THROUGH LOCAL/TSA HQ IT AND TSA HQ OFFICE OF REAL ESTATE FOR AWARENESS. THE LOCAL TSA IS RESPONSIBLE TO MAKE ALL NOTIFICATIONS.

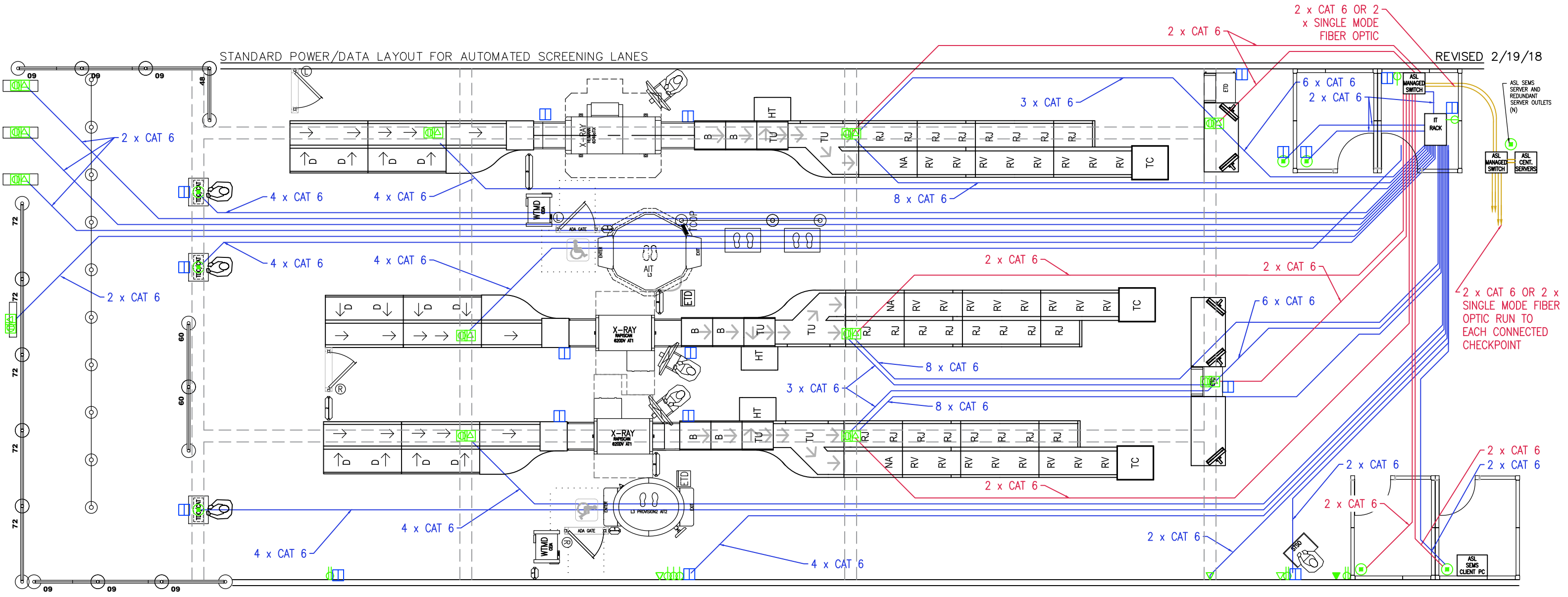
- NOTES:**
1. EQUIPMENT SHOWN REPRESENTS TWO DIFFERENT X-RAY MANUFACTURERS FOR EXAMPLE OF OUTLET PLACEMENT, EACH CHECKPOINT TYPICALLY INCLUDES ONLY ONE MANUFACTURER.
 2. EACH EQUIPMENT LOCATION SHALL UTILIZE EITHER FLOOR OUTLETS OR POWER POLES, BUT NOT BOTH TYPES OF POWER/DATA DEVICES (SELECTION DEPENDS 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.
 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.



SPECIAL SCOPE NOTE:
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- NOTES:**
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 3. IT IS RECOMMENDED THAT THE PRIVATE SCREENING ROOM, IT ROOM, AND THE STSO PODIUM BE BUILT INTO THE SPACE OF THE AIRPORT.
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 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.
 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.



ASL CHECKPOINT DATA CABLING REQUIREMENTS - MACDONALD HUMFREY, SMITHS DETECTION, RAPISCAN			
OUTLET	CABLE REQUIREMENTS	CABLE DESTINATION	NOTES
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			
	6 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



ASL CHECKPOINT DATA CABLING REQUIREMENTS - VANDERLANDE, SCARABEE			
OUTLET	CABLE REQUIREMENTS	CABLE DESTINATION	NOTES
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	
	3 X VGA CABLE	AVS/ETD/BLS/AVS/AVS - C	
AVS/ETD/BLS/AVS/AVS - C			
	6 X CAT6	TSA IT RACK	
	3 X CAT6	REAR X-RAY OUTLET - B	PER LANE SERVED
	3 X VGA CABLE	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

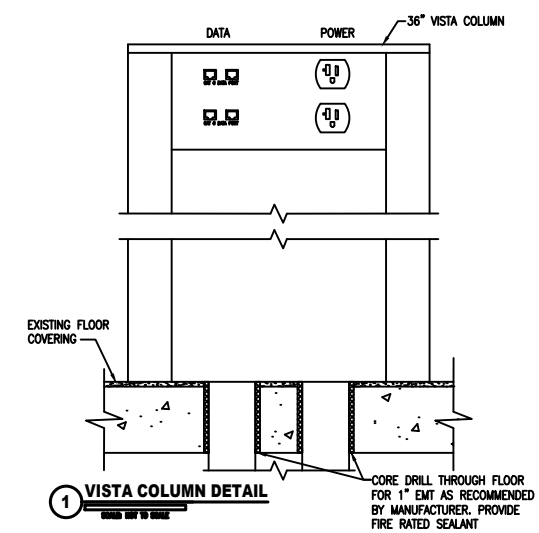
Cisco 3850-12S-S

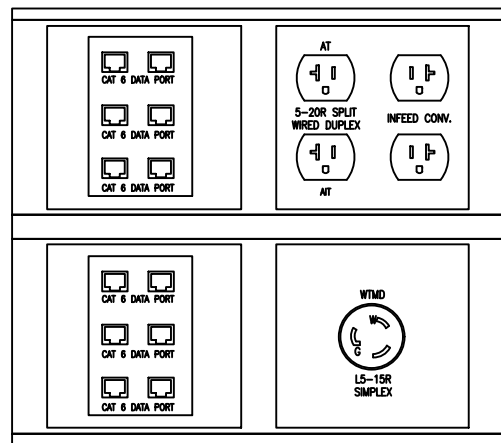
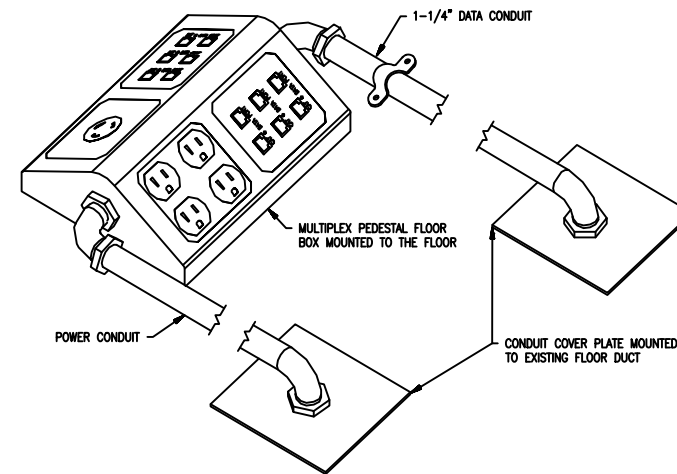
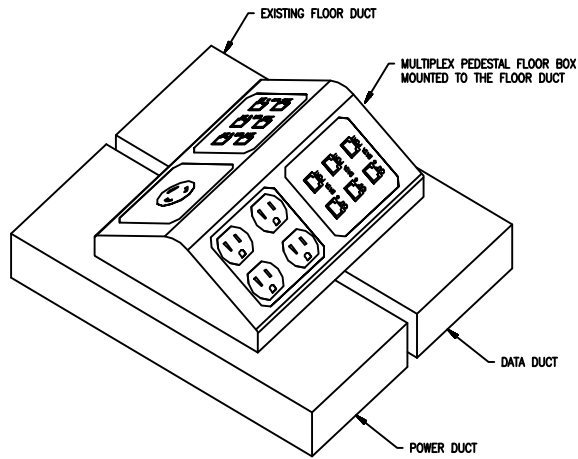
- 12 x Gigabit Ethernet SFP
- Port transmission speed, port duplex mode, system, status, PoE
- IPv4 routes

Cisco WS-C3850-48P

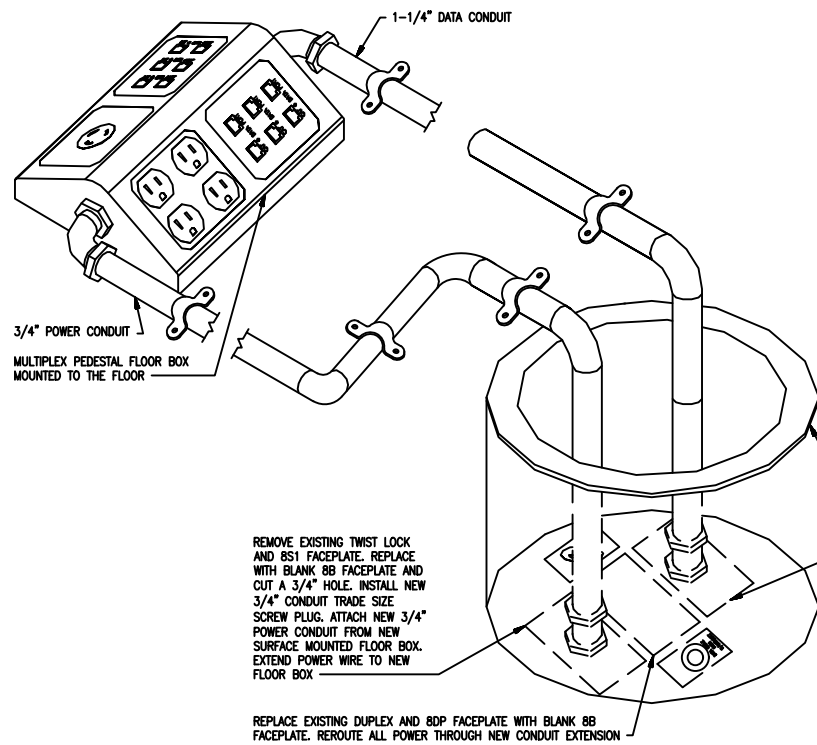
Cisco WS-C3850-24S







EXAMPLE DEVICE



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

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

REMOVE COVER FROM EXISTING RECESSED POKE-THRU

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

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\"/>

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.