

## GENERAL NOTES:

- THESE DRAWINGS DESCRIBE THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF THE TELECOMMUNICATION SYSTEM WITHIN THE FACILITIES OF PORTLAND INTERNATIONAL AIRPORT (PIA), THE PROJECT INCLUDES FURNISHING, INSTALLATION, STARTUP AND TESTING OF THE COMMUNICATIONS FOR THE PORTLAND TELECOMMUNICATIONS SYSTEM AS DESCRIBED HEREIN AND IN THE SPECIFICATIONS.
- THE WORK SCOPE OF THIS PROJECT WILL REQUIRE EXPERTISE OF AN EXISTING AND OPERATING TELECOMMUNICATION SYSTEM. NEW FIBER AND COPENR BACKGROUNDS WILL BE INSTALLED FROM EXISTING NEW MDF AND IDF ROOMS OUT INTO THE PROJECT AREAS.
- CONTRACTOR SHALL UTILIZE EXISTING CONDUIT/TRAFFY RUNS PROVIDED AS SHOWN ON THESE DRAWINGS. ALL NEW CONDUIT UTILITIES SHALL BE A MINIMUM OF 3/4" EMT UNLESS OTHERWISE NOTED.
- CONDUIT ROUTES, IF SHOWN, ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL SELECT ACTUAL ROUTES FOR APPROVAL BY ENGINEER/PMM AND BEY ARE TO BE CONCEALED IN FINISHED AREAS AND OTHERWISE NOTED. ALL NEW CONDUITS AND BEY ARE TO BE CONCEALED IN FINISHED AREAS AND SURFACE MOUNTED IN DOLLY VAN AND BRAGSAGE MAKE-UP AREAS OR AS NOTED ON DRAWINGS.
- CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL DEVICES AND FINAL CONDUIT ROUTE WITH THE ENGINEER/PMM PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS & LAWS OF AUTHORITIES HAVING JURISDICTION.
- DIMENSIONS TAKE PRECEDENCE OVER SCALE.
- STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS AND HAZARDOUS CHEMICALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS AND LOCAL JURISDICTION.
- THE CONTRACTOR SHALL PROVIDE SECURITY WITHIN THE CONSTRUCTION AREA AND WILL KEEP ALL THROUGH ACCESS POINTS DIRECTED BY THE ENGINEER/PMM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF ALL DOORS, GATES IN ACCORDANCE WITH AIRPORT SECURITY REQUIREMENTS DURING PERIODS OF CONSTRUCTION, INSTALLATION AND TESTING.
- CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE AND IDENTIFY ALL EXISTING UTILITIES IN THE CONSTRUCTION AREA, WHETHER INDICATED ON DRAWINGS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO EXISTING UTILITIES DAMAGED DURING CONSTRUCTION AND SHALL REPAIR AND RESTORE ALL UTILITIES TO ORIGINAL CONDITION. UTILITIES INCLUDE FIBS, TACS, VOICE, DATA, POWER, HVAC, LIGHTING, SECURITY, SURVEILLANCE, ETC.
- IN CONSTRUCTION AREAS THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING CABLES DURING CONSTRUCTION. THE CONTRACTOR WILL PAY FOR ALL REASONABLE COSTS ASSOCIATED WITH THE REPAIR OF ANY DAMAGED CABLES.
- IN CONSTRUCTION AREAS THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING CABLES DURING CONSTRUCTION. THE CONTRACTOR WILL PAY FOR ALL REASONABLE COSTS ASSOCIATED WITH THE REPAIR OF ANY DAMAGED CABLES.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL SAFETY DEVICES SUCH AS STAKED LIMIT LINES AND BARRICADES, ALL TEMPORARY MARKINGS, BARRICADES, FLAGMEN, ETC. REQUIRED SHALL BE FURNISHED AT NO ADDITIONAL COST TO PMM.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
- THE ALTERATION OF THE EXISTING BUILDINGS IS WORK OF A COMPLEX NATURE WHICH WILL REQUIRE SUPERVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO DO THIS WORK IN FULL COOPERATION WITH ALL CONSTRUCTION TRADES AND SUBJECT TO SCHEDULING ARRANGED TO MINIMIZE DISRUPTION OF NORMAL ACTIVITIES OF THE BUILDINGS. PHASING OF ALL WORK SHALL BE DONE IN COORDINATION WITH PMM AND THE ARCHITECTURAL PHASING PLAN.
- CONTRACTOR SHALL FABRICATE COVER PLATES TO COVER ALL HOLES REMAINING IN DOORS, WALLS, OR CEILINGS WHERE EXISTING EQUIPMENT WAS REMOVED. REMOVED EQUIPMENT INCLUDE LOCK SETS, DOOR HANDLES, EXIT PUSH BARS, PULL HANDLES, DOOR CLOSERS, INTERFACE PANELS/CAMERA MOUNTS, AND ANY OTHER MISCELLANEOUS HARDWARE ITEMS.
- ALL DEVICES AND BOXES INSTALLED SHALL BE TAGGED AND/OR MARKED AS UCCS IN ACCORDANCE WITH DRAWINGS AND THE SPECIFICATION.
- ALL PENETRATIONS, BOTH NEW AND EXISTING, THROUGH PENETRATED, PENETRATED WALLS, CEILINGS AND FLOOR SLABS SHALL BE PROPERLY SEALED WITH AN APPROVED RATED FIRE STOPPING MATERIAL AND SHALL MATCH THE RATING OF THE STRUCTURE. CONTRACTOR SHALL SUBMIT 3 COPIES OF MANUFACTURER'S CATALOG DATA AND INSTALLATION DETAILS FOR FIRE STOPPING TO THE AIRPORT FIRE PREVENTION SECTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- WHERE UTILITIES REQUIRE SHUTDOWN FOR THE WORK TO BE PERFORMED, NOTIFY THE PMM PROJECT ENGINEER. REQUESTS FOR UTILITY SHUTDOWNS SHALL BE SUBMITTED TO THE PMM PROJECT ENGINEER IN WRITING, A MIN. OF 1 WEEK PRIOR TO THE SCHEDULED SHUTDOWN.
- THE CONTRACTOR SHALL NOT BE ALLOWED ANY STORAGE AREA OTHER THAN THAT AVAILABLE WITHIN THE LIMITS OF THE STAGING AREA OR CORNERS OF THE WORK AREA.
- ALL MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF CONSTRUCTION DEBRIS AND REFUSE.
- A COPY OF THE CURRENT SET OF CONTRACT DOCUMENTS SHALL BE KEPT AT THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR SHALL PATCH, REPAIR OR REPLACE EXISTING WORK DISTURBED BY THIS CONTRACT WITH MATERIAL AND WORKMANSHIP MATCHING OR EQUAL TO THE CONDITION PRIOR TO THE NEW WORK.
- ALL CONTRACTOR EMPLOYEES SHALL BE RANGED IN ACCORDANCE WITH THE REQUIREMENTS OF AIRPORT SECURITY. CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE AIRPORT BADGING OFFICE FOR TESTING AND BADGING OF CONTRACTORS PERSONNEL. MATERIAL SUPPLIERS WILL NOT REQUIRE AIRPORT BADGES, BUT MUST BE ESCORTED BY A PERMANENTLY BADGED CONTRACTOR EMPLOYEE AT ALL TIMES.
- ALL CONTRACTOR VEHICLES SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3' X 3' OR LARGER, ORANGE & WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1'-0" SQUARE. ANY VEHICLE MOUNTED ON THE TOP OF THE VEHICLE FOR USE FROM DUSK TILL DAWN, THE LIGHT SHALL BE OF SUCH COLOR AS TO BE EASILY IDENTIFIABLE TO OTHER VEHICLES AND PERSONNEL. THE LIGHT SHALL BE OPERATING ON ALL VEHICLES OPERATING IN THE AOA. SHALL BE CLEARLY MARKED WITH THE CONTRACTORS NAME ON BOTH SIDES OF THE VEHICLE.

## GENERAL REQUIREMENTS:

- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS, METHODS, AND SERVICES REQUIRED TO INSTALL ALL WORK INDICATED COMPLETELY AND IN FULL OPERATION.
- EACH CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS OF ALL TRADES FOR A THOROUGH UNDERSTANDING OF PROJECT AND ANY CROSS-REFERENCING OF WORK. REVIEW ALL PROJECT REQUIREMENTS PRIOR TO BIDDING. DISCREPANCIES BETWEEN DOCUMENTS SHALL BE REPORTED TO THE ENGINEER, WITH THE MOST STRINGENT REQUIREMENTS TO GOVERN.
- VERIFY ALL FIELD CONDITIONS, INCLUDE IN BID. ALL WORK NECESSARY TO COVER COSTS RESULTING FROM FIELD CONDITIONS.
- ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST AND ALL APPLICABLE LAWS, CODES, AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE, AIRPORT AUTHORITIES, FEDERAL AUTHORITIES, UTILITY COMPANIES, INSURANCE AGENCIES AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK, INCLUDING CURRENT ENVIRONMENTAL REGULATIONS, AND SHALL COMPLY WITH THE APPLICABLE LOCAL ELECTRICAL CODES.
- APPLY FOR, SECURE, AND PAY FOR ALL PERMITS AND/OR CERTIFICATIONS OF INSPECTION REQUIRED IN THE PERFORMANCE OF THE WORK BY ALL AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR (EXCEPT WHERE EXTENSIONS OF THIS ONE YEAR PERIOD ARE NOTED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM AS A WHOLE. ANY DEFECTS IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER WORK OR CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PAY ALL REPAIR COSTS ACCORDINGLY WITHOUT ADDITIONAL COSTS TO THE OWNER.
- IN ADDITION TO SPECIFICS, AS MAY BE DEFINED HEREAFTER, THE CONTRACTOR SHALL PROTECT THE LIMITED TO WATER, DUST, HEAT, FREEZING ETC.) UNTIL FINAL COMPLETION AND ACCEPTANCE BY THE OWNER.
- CONTRACTOR SHALL, UPON COMPLETION OF THE WORK, SUBMIT AS-BUILT RECORD DRAWINGS SHOWING ALL CHANGES FROM THE CONTRACT DRAWINGS, WHETHER BY INSTALLATION AND SHOWING DIMENSION LOCATIONS OF CONCEALED EQUIPMENT ON PARTS OF THE WORK.
- SAFETY DATA SHEETS FOR ALL ITEMS AND MATERIALS USED IN THE WORK.
- PRIOR TO DELIVERY OF THE MATERIALS TO THE SITE, CONTRACTOR SHALL PROVIDE MATERIAL, SAFETY DATA SHEETS FOR ALL ITEMS AND MATERIALS USED IN THE WORK.
- EACH TRADE CONTRACTOR SHALL PROVIDE AND INSTALL AN APPROVED FINE STOP SEALANT, TOTALLY ENCLOSED ALL PENETRATIONS THROUGH RATED CEILINGS, WALLS, ROOFS AND FLOORS, UNLESS OTHERWISE NOTED. ALL PARTS, EQUIPMENT, AND MATERIALS SHALL BE NEW AND IF REQUIRED UL APPROVED.
- CONTRACTOR SHALL COMPLETE ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF PATCHING MATERIALS SHALL MATCH EXISTING MATERIALS TO THE GREATEST EXTENT POSSIBLE. PROVIDE TOUCH UP PAINT AS REQUIRED TO MATCH PAINT FINISH & COLOR OF EXISTING ADJACENT AREAS.
- CONTRACTOR SHALL DISPOSE OF TRASH/URUBAL CONSTRUCTION DEBRIS AND A DAILY BASIS FROM WORK AREA AND OFF AIRPORT PROPERTY. ALL TRASH/CONSTRUCTION DEBRIS SHALL HAULED OFF OF AIRPORT PROPERTY TO AN APPROVED DISPOSAL SITE. ANY TRASH/URUBAL/CONSTRUCTION DEBRIS DEEMED AS HAZARDOUS WASTE/MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH EPA, CITY AND STATE REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAZARDOUS WASTE DISPOSAL WITHIN THE APPROVED/DESIGNATED DISPOSAL AREA.
- CONTRACTOR SHALL CORE DRILL OPENINGS THROUGH FLOORS FOR NEW CONDUIT PENETRATIONS AS REQUIRED. CORE DRILL OPENINGS SHALL BE SLEEVED AND SEALED WITH RATED/FIRE RATED MATERIAL. CONTRACTOR SHALL CORE DRILL 1" DIAMETER FLUTE HOLE PRIOR TO CORE DRILLING IN STRUCTURAL BUILDING ELEMENTS SUCH AS COLUMNS OR BEAMS. CONTRACTOR SHALL TAKE PRECAUTIONS AS TO PROTECT AREAS BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE AND WATER THAT MAY ENTER AREAS BELOW. REPLACE ANY VALL AREAS AFTER CORE DRILL WORK HAS BEEN COMPLETED.
- CONTRACTOR SHALL MAINTAIN MINIMUM REQUIRED SEPARATION BETWEEN COMMUNICATION (CONDUIT) CABLES AND POWER CABLES UNLESS OTHERWISE NOTED AND APPROVED BY THE ENGINEER.
- CONDUIT ROUTES, IF SHOWN, ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL SELECT ACTUAL ROUTES FOR APPROVAL BY ENGINEER/PMM ON SHOP DRAWINGS. PRIOR TO INSTALLATION, UNLESS OTHERWISE NOTED, CONDUIT ROUTES SHALL BE CONCEALED IN FINISHED AREAS AND SURFACE MOUNTED IN DOLLY VAN AND BRAGSAGE MAKE-UP AREAS OR AS NOTED ON DRAWINGS. ALL CONDUIT SHALL BE PERPENDICULAR OR PARALLEL TO BUILDING LINES.

## TELECOMMUNICATION DEMOLITION ALLOWANCE:

- AN ALLOWANCE HAS BEEN CREATED WHICH COVERS THE DEMOLITION OF COMMUNICATION EQUIPMENT FROM THE EXISTING AIRPORT FACILITY AS REQUIRED BY THE ARCHITECTURAL OPERATIONS TO THE EXISTING STRUCTURE. REFER TO THE PROJECT SPECIFICATIONS FOR FURTHER INFORMATION ON THIS PROJECT ALLOWANCE.
- CABLING AND CONDUITS WITHIN ALL BUILDING AREAS WHICH ARE BEING DEMOLISHED BY THIS PROJECT SHALL BE IN THE FORM OF ROUND, 16"x24" DRAWINGS INCLUDING LOCATIONS, SCHEDULES AND PHASING PLANS FOR ALL EQUIPMENT, CONDUITS, AND CABLING TO BE DEMOLISHED. PHASING PLAN SHALL BE COORDINATED WITH PMM PRIOR TO THE SUBMISSION OF THE DEMOLITION PLAN AND SHALL TAKE INTO ACCOUNT ANY REQUIRED DOWNS OR SHUTDOWNS OF AIRPORT OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL COMMUNICATIONS EQUIPMENT FROM THE PROJECT. CONTRACTOR SHALL PERFORM ALL DEMOLITION OF COMMUNICATION EQUIPMENT, DATA AND TELECOMMUNICATION OUTLETS SHALL BE REMOVED FROM ALL WALLS AND SURFACING BEING DEMOLISHED. ALL CABLING AND ABANDONED CONDUITS SHALL BE REMOVED BACK TO SOURCE. CONDUITS AND CABLING SHALL BE BY OTHERS AS REFERENCED IN THE ELECTRICAL SECTIONS OF THE DRAWINGS AND SPECIFICATIONS.
- ALL WORK REQUIRED TO REMAIN IN SERVICE BUT INTERFERING WITH THE ALTERATIONS SHALL BE RELOCATED AND RECONNECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT.
- EQUIPMENT AND WIRING TO BE REMOVED SHALL BE DE-ENERGIZED PRIOR TO ANY DEMOLITION WORK.
- EQUIPMENT INDICATED TO BE REMOVED SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS. EQUIPMENT REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE DELIVERED TO A LOCATION AS DIRECTED BY PMM.
- PROVIDE BLANK COVER PLATES AT OPEN BOXES WHERE EXISTING RECEPTACLES OR ELECTRICAL DEVICES ARCHIVE BEEN REMOVED FROM ENCLOSURES OR SURFACES NOT INDICATED TO BE REPAIRED OR REFRESHED.

## TELECOMMUNICATION COORDINATION NOTES:

- NO CHANGES OR MODIFICATIONS OF ANY EXISTING AIRPORT CABLING SYSTEM EQUIPMENT OR SYSTEMS SHALL BE PERFORMED WITHOUT THE WRITTEN APPROVAL OF THE AIRPORT OWNERS REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO KEEP THE AIRPORTS TELECOMMUNICATION SYSTEM OPERATIONAL DURING ALL PHASES OF CONSTRUCTION AND ASSOCIATED DEMOLITION.
- PMM REQUIRES A MINIMUM OF TWO (2) WEEKS NOTICE PRIOR TO THE START OF CABLING SYSTEM CHANGES. DURING THIS PERIOD, PMM WILL ADVISE WHEN WORK CAN PROCEED AND OF ANY SPECIAL ACTIONS WHICH MUST TAKE PLACE. COORDINATION WITH PMM IS REQUIRED FOR EVERY STEP OF THE ADDITION/REMOVAL PROCESS.
- A COORDINATION MEETING BETWEEN THE CABLING CONTRACTOR AND PMM SHALL BE REQUIRED PRIOR TO THE START OF SHOP DRAWINGS IN ORDER TO ENSURE A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
- ALL WORK TO THE EXISTING CABLING SYSTEM REQUIRING A TEMPORARY SHUTDOWN OF AIRPORT SYSTEMS SHALL BE PERFORMED BETWEEN THE HOURS OF MIDDIGHT AND 5:00AM OR AS DIRECTED BY PMM. THE CONTRACTOR SHALL NOTIFY PMM A MINIMUM OF 72 HOURS IN ADVANCE PRIOR TO THE NEED TO SHUT DOWN ANY ELEMENTS OF THE EXISTING CABLING SYSTEM. ALL WORK TO THE EXISTING CABLING SYSTEM SHALL TAKE PLACE IN THE PRESENCE OF A REPRESENTATIVE OF PMM.
- ALL SHOP DRAWINGS SHALL BE APPROVED BY BOTH PMM AND THE PROJECT ENGINEER BEFORE THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FOR ADDED REVIEW, THE ON ANY SHOP DRAWING SUBMITTALS REQUIRING TSA APPROVAL.
- THE CONTRACTOR SHALL COORDINATE WITH THE TSA FOR ALL TELECOMMUNICATIONS WORK BEING PERFORMED IN TSA OPERATED SPACES. ALL TELECOMMUNICATION RACK LOCATIONS SHALL BE COORDINATED AND APPROVED BY THE TSA PRIOR TO FINAL INSTALLATION. ALL HORIZONTAL TSA CABLING SHALL BE INSTALLED IN A CONCEALED MANNER. THE CONTRACTOR SHALL BE PROVIDED BY TSA PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PASSIVE CABLE PROVIDED BY REQUIREMENTS BY THE TSA. THE CONTRACTOR IS NOT RESPONSIBLE FOR FURNISHING ANY SWITCH OR NETWORK EQUIPMENT FOR THE TSA.
- THE CONTRACTOR SHALL COORDINATE WITH PMM AND EACH AIRLINE IN THE AIRLINE TRAVEL SPACES IN ORDER TO PROPERLY LOCATE AIRLINE TELECOMMUNICATION RACKS PURCHASED BY THIS PROJECT. ONLY AFTER APPROVAL BY THE AIRLINE MAY THE ASSOCIATED TELECOMMUNICATION CABINET BE INSTALLED WITHIN THE ATO.
- THE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ENSURE THAT PROPER POWER IS SUPPLIED AT ALL TELECOMMUNICATION ROOMS AS REQUIRED. AREAS REQUIRING COORDINATION WITH THE ELECTRICAL CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:
  - IDF #2
  - IDF #1
  - IDF #1A
- THE TELECOMMUNICATION CONTRACTORS SHALL BE REQUIRED TO COORDINATE ALL OUTLET LOCATIONS FOR FIBER AND DATA CONDUITS WITHIN THE EXISTING STRUCTURE. FIBER AND DATA CONDUIT LOCATIONS SHALL BE APPROVED BY PMM AND THE FIBS CONTRACTOR PRIOR TO INSTALLATION.
- IT MAY BE REQUIRED AT TIMES FOR THE CONTRACTOR TO COORDINATE WITH FAIRPORT CONTRACTORS AND OTHER TRADES TO COORDINATE WITH THE EXISTING BUILDING TO THE NEW STRUCTURE BEING INSTALLED BY THIS PROJECT.
- THE CABLING SYSTEM BEING INSTALLED FOR THIS PROJECT SERVES AS THE COMMUNICATION BACKBONE FOR SEVERAL AIRPORT SYSTEMS AND SERVICES BEING PROVIDED UNDER THIS PROJECT. SHALL SCHEDULE ALL TELECOMMUNICATION WORK TO BE FINISHED NO LESS THAN 120 DAYS FROM THE PROJECT COMPLETION DATE. THIS SHALL INCLUDE ALL TESTING AND SYSTEM ACCEPTANCE WORK.

## SHEET NOTES

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

2020 K Street, Northwest  
Suite 200  
Washington, DC 20006  
Washington 202 212 8587  
Fascinate 202 872 8587

**ARORA**  
Architectural  
Engineers, Inc.

61 Wilmington - West Chester  
Suite #100  
Chadds Ford PA 19317  
Chadds Ford PA 19317  
F (610) 459-7999

## KEY PLAN

**TC00.00**

©2006 Gensler



Project Name  
**PMM TERMINAL EXPANSION**

Project Number  
**TC00.00**

Contract Name  
**TELECOMMUNICATIONS**

Scale  
**As Indicated**

Date & Issue Description	By	Check
145 09/01/11	SBR	RAK
ISSUED FOR CONSTRUCTION		





**SHEET NOTES**

- ① DEMOLISH TELECOMMUNICATION DATA RACKS BACK TO THE SOURCE.
- ② DEMOLISH MULTIPLE TELECOMMUNICATION CABINETS WHEN ISOLAN CABINETS RELOCATED AND REMAINS FUNCTIONAL.

**Portland International  
Jetport**  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

2020 K Street, Northwest  
Suite 200 DC - 20006  
Washington, DC 20242  
Tel: 202.872.8800  
Fax: 202.872.8587



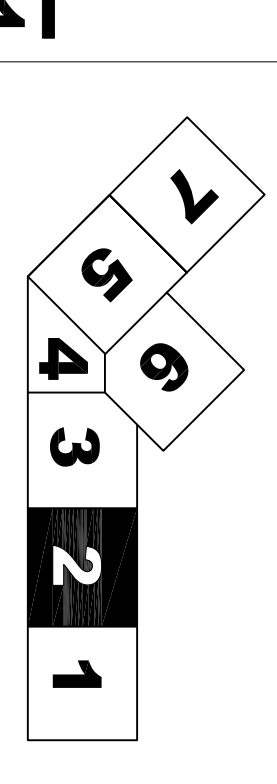
**Arora Engineers, Inc.**  
61 Wilmington - West Chester  
Suite #100  
Charles Ford, PA 19317  
Tel: 610.459.7999  
Fax: 610.459.7990



**GENERAL NOTES**

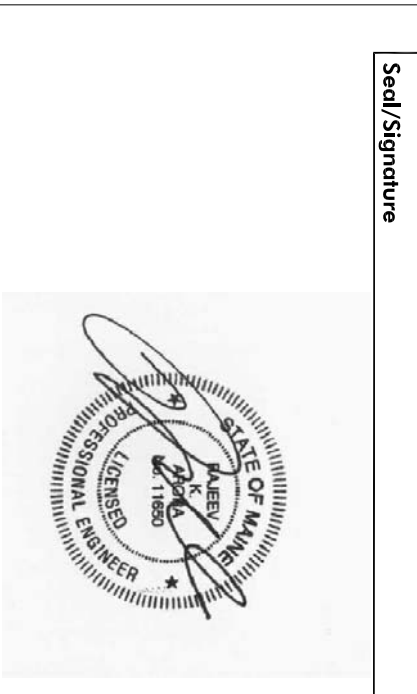
- A. REFER TO DRAWING S500.00 FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS.
- B. CONTACT DRAWINGS AS SHOWN ARE DIAGRAMMATIC AND INTENDED TO CONVEY DESIGN INTENT AND GENERAL NEW WORK WITH EXISTING CEILING CONDITIONS, DOOR CONDITIONS, AND EQUIPMENT.
- C. ALL SURVEILLANCE EQUIPMENT SHOWN SHALL BE REMOVED. REMOVE CAMERAS AND WIRING BACK TO SOURCE AND RETURN TO PMW. MARK ANY REMOVED EQUIPMENT WITH RED AND DAMAGED CEILING TILES TO MATCH ADJACENT EXISTING.
- D. ALL SECURITY EQUIPMENT SHOWN SHALL BE REMOVED. REMOVE SECURITY DOOR HARDWARE SUCH AS CARD READERS, KEYPADS, AV ALARMS, AND DOOR REVERSERS. REMOVE SECURITY EQUIPMENT FROM ALL REMOVED DOOR EQUIPMENT. REMOVE WIRING BACK TO SOURCE AND RETURN TO PMW.
- E. CONTRACTOR TO ENSURE EXISTING SECURITY AND SURVEILLANCE SYSTEM REMAINS OPERATIONAL AT ALL TIMES. ANY REQUIRED TEMPORARY SHUTDOWNS SHALL BE COORDINATED WITH PMW.
- F. CONTRACTOR SHALL TEST THE SECURITY AND SURVEILLANCE SYSTEM AFTER ANY DEMOLITION WORK. SYSTEMS SHALL BE RESTORED TO NORMAL OPERATIONS.

**KEY PLAN**



**LEVEL 2 - ZONE 3**  
SCALE: 1/8" = 1'-0"

Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RAK



Project Name: **PMW TERMINAL EXPANSION**  
 Project Number: **TC01.03.02**  
 CAD File Name: **TC01.03.02**  
 Description: **TELECOMMUNICATIONS DEMOLITION PLAN - LEVEL 3 - ZONE 2**  
 Title: **As Indicated**

**TC01.03.02**  
©2006 Gensler

SHEET NOTES

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

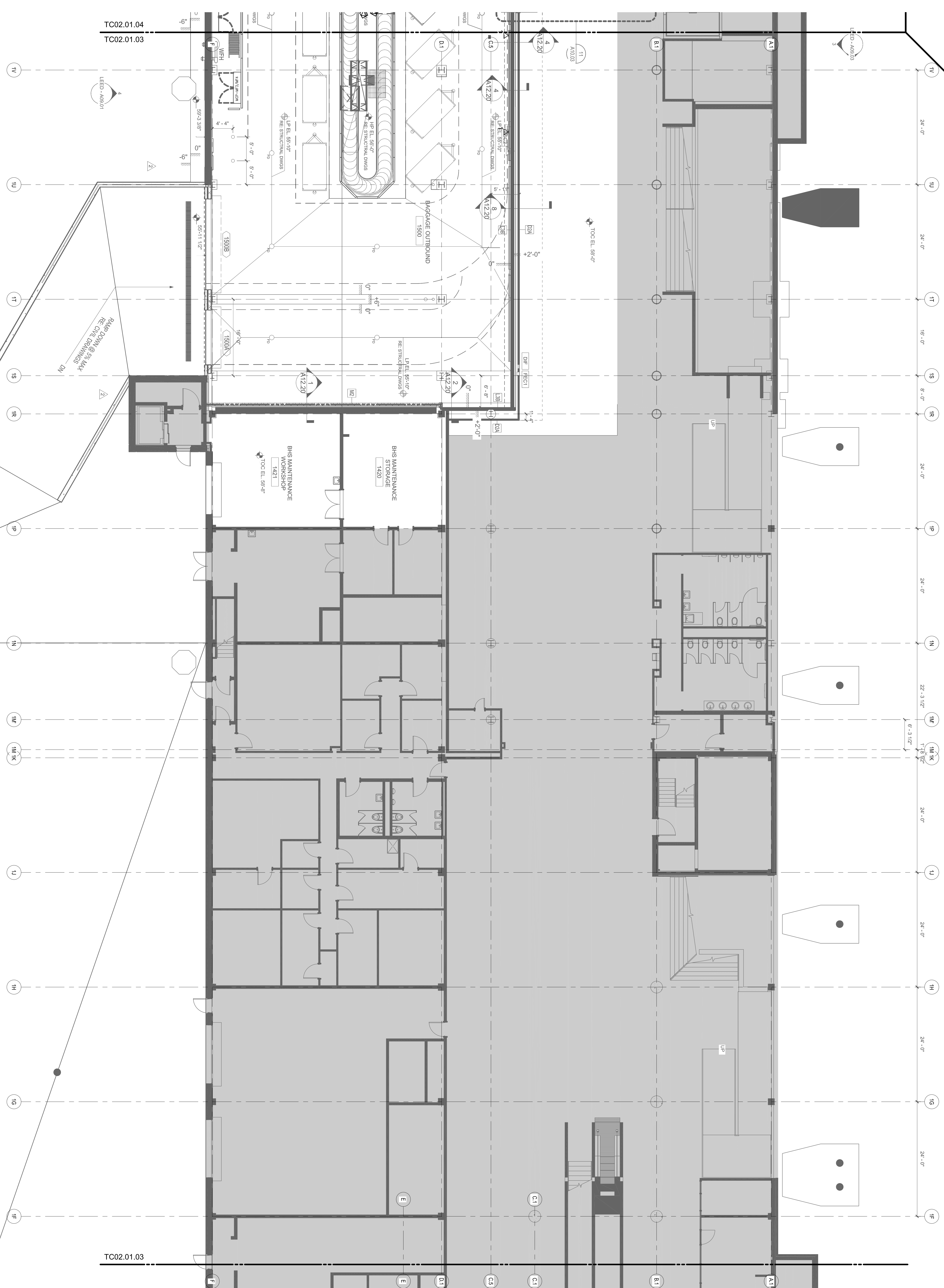
2020 K Street, Northwest  
Suite 200 DC 20006  
Washington DC 20004  
Tel: (202) 857-8800  
Fax: (202) 857-8887

**ARORA**  
Architectural Record

Arora Engineers, Inc.  
61 Wilmington - West Chester  
Suite #100 PA 19317  
Wilmington, PA 19380  
Tel: (610) 459-7990  
Fax: (610) 459-7990

GENERAL NOTES

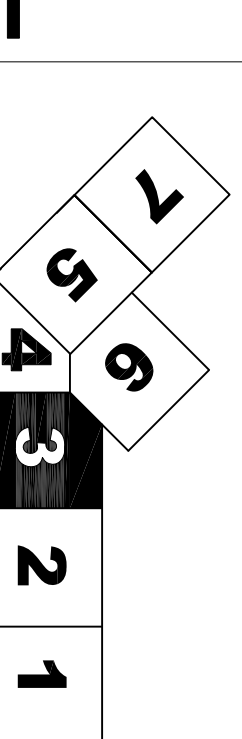
- A REFER TO DRAWING TC02.01.04 FOR DEMOLITION NOTES.
- B CONTRACTOR FLOOR TO ANY NEW FLOOR CONSTRUCTION SHALL BE ONLY SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN EXPOSED WHERE POSSIBLE OR IF PERMITTED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND FLOOR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR SHALL VERIFY THE RATED MATERIAL IS NOT DAMAGED BY WORK OF THIS CONTRACT.
- D CONTRACTOR SHALL CORE DRILL 1/4" PLOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL VERIFY THE LOCATION AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL DO NOT DEPART EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW MONITOR LOCATIONS AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN ON DRAWING. CONTRACTOR SHALL VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SLEEVED THROUGH WALLS AND FLOOR SLABS TO MAXIMUM FILL. CONTRACTOR SHALL INDICATED ON DRAWINGS TO CUT 05 AND TO 12.06.
- H ALL VOICE AND DATA CABLING SHALL BE CONCEALED IN CONDUIT AND SLEEVED THROUGH WALLS AND FLOOR SLABS TO MAXIMUM FILL. CONTRACTOR SHALL INDICATED ON DRAWINGS TO CUT 05 AND TO 12.06.
- I ACP AND SIZE LUNCTION BODIES AT CONDUIT ENTRY SHALL BE INSTALLED TO MEET ALL APPLICABLE STANDARDS FOR BED RADIUS.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR PEX TUBING WITHIN THE SLAB ASSEMBLY.



LEVEL 1 - ZONE 3

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

KEY PLAN



Project Name: **PWV TERMINAL EXPANSION**

Contract Number: \_\_\_\_\_

CD No. Name: \_\_\_\_\_

TC02.03

Description: **TELECOMMUNICATIONS CONSTRUCTION PLAN - LEVEL 1 - ZONE 3**

Scale: \_\_\_\_\_

As Indicated

145 09/01/11 Date & Issue Description By: **SJB RKA**

ISSUED FOR CONSTRUCTION

Legend:

- As Indicated

TC02.01.03

© 2006 Gensler



SHEET NOTES

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

2020 K Street, Northwest  
Suite 200 DC - 20006  
Washington, DC 20242  
Tel: (202) 872-8800  
Fax: (202) 872-8887

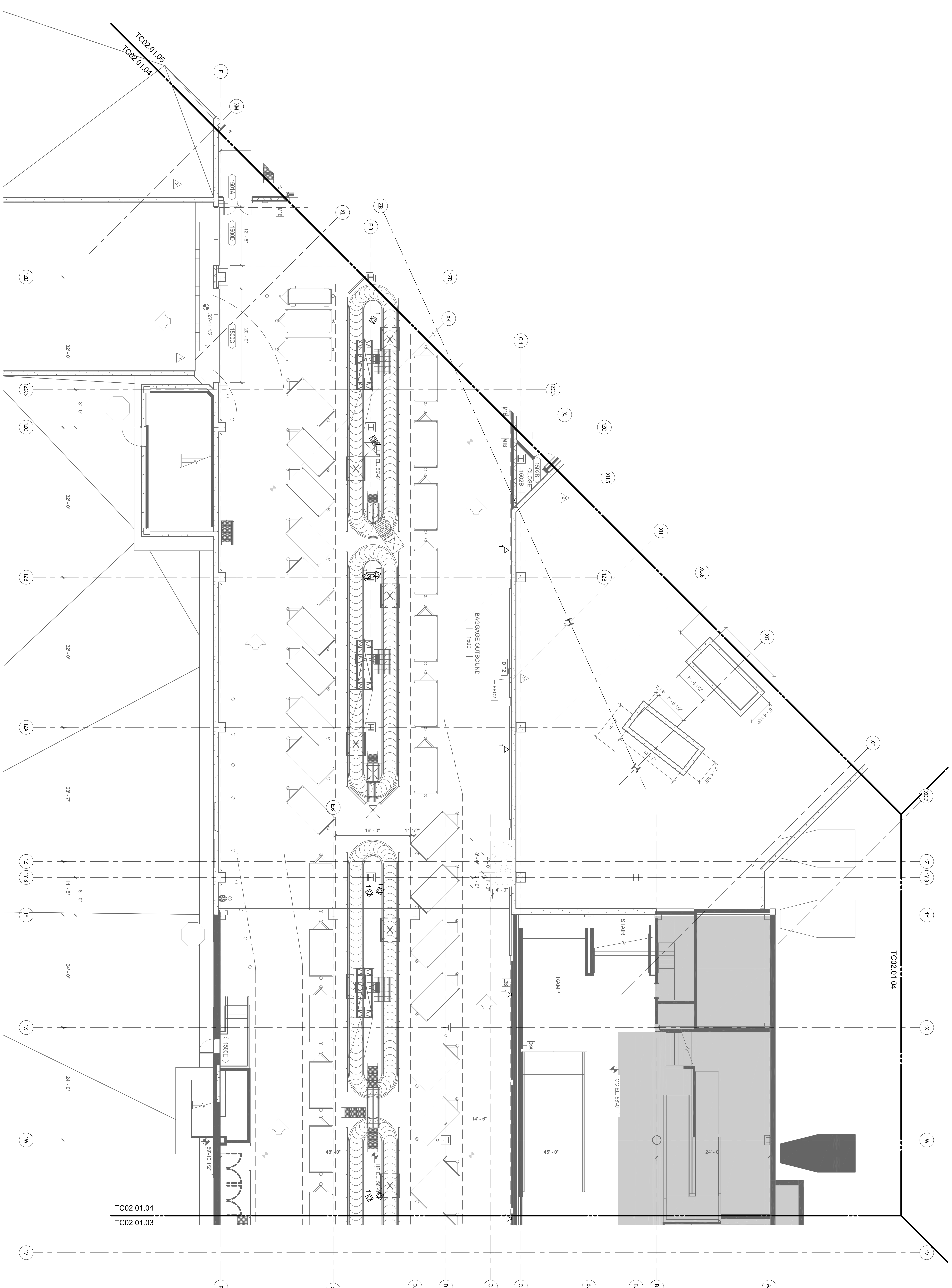
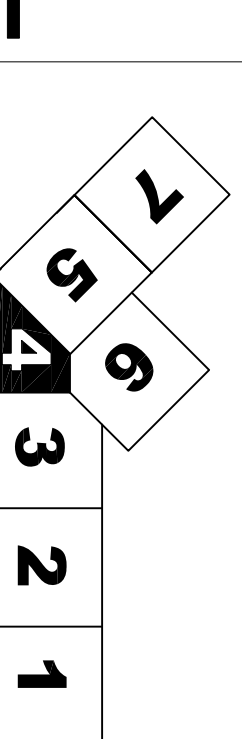
**ARORA**  
ARCHITECTS

ARORA ENGINEERS, INC.  
61 Wilburton - West Chester  
Suite #100  
Chadds Ford, PA 19317  
Tel: (610) 459-7950  
Fax: (610) 459-7959

GENERAL NOTES

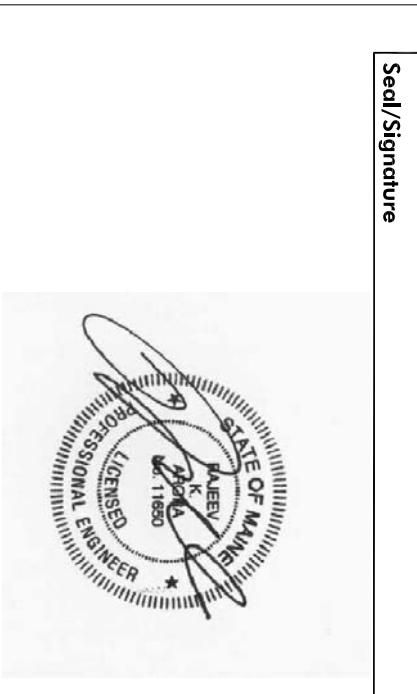
- A REFER TO DRAWING TC02.01.03 FOR DEMOLITION NOTES.
- B CONTRACTOR PROOF TO ANY TRADES SHOP CONDITIONS WITH ALL TRADES SHOP CONDITIONS WILL BE ONLY SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND COR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR SHALL VERIFY THE EXACT ROUTE.
- D CONTRACTOR SHALL CORE DRILL 1/4" PLOT HOLE PATTERN TO CORE DRILLING, AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR DO NOT DEPICT EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN IN FIELD VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SLEED BE CONCEALED IN CONDUIT TO EXCEED THE 40% MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE CONCEALED IN CONDUIT AND SLEED BE CONCEALED IN CONDUIT TO EXCEED THE 40% MAXIMUM FILL.
- I ADP AND SIZE FUNCTION BOXES AT CONDUIT ENTRY POINTS SHALL EX 314 AND TWEEN STANDARDS FOR BED RADII.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR PEX TUBING WITHIN THE SLAB ASSEMBLY.

KEY PLAN



LEVEL 1 - ZONE 4  
SCALE: 1/8" = 1'-0"

Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RAK



Project Name: **PWM TERMINAL EXPANSION**  
 Contract Number: **TC02.01.04**  
 Description: **TELECOMMUNICATIONS CONSTRUCTION PLAN - LEVEL 1 - ZONE 4**  
 Scale: **As Indicated**

**TC02.01.04**  
 © 2006 Gensler

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

2020 K Street, Northwest  
Suite 200 DC 20006  
Washington, DC 20004  
202.721.4000  
202.872.8587

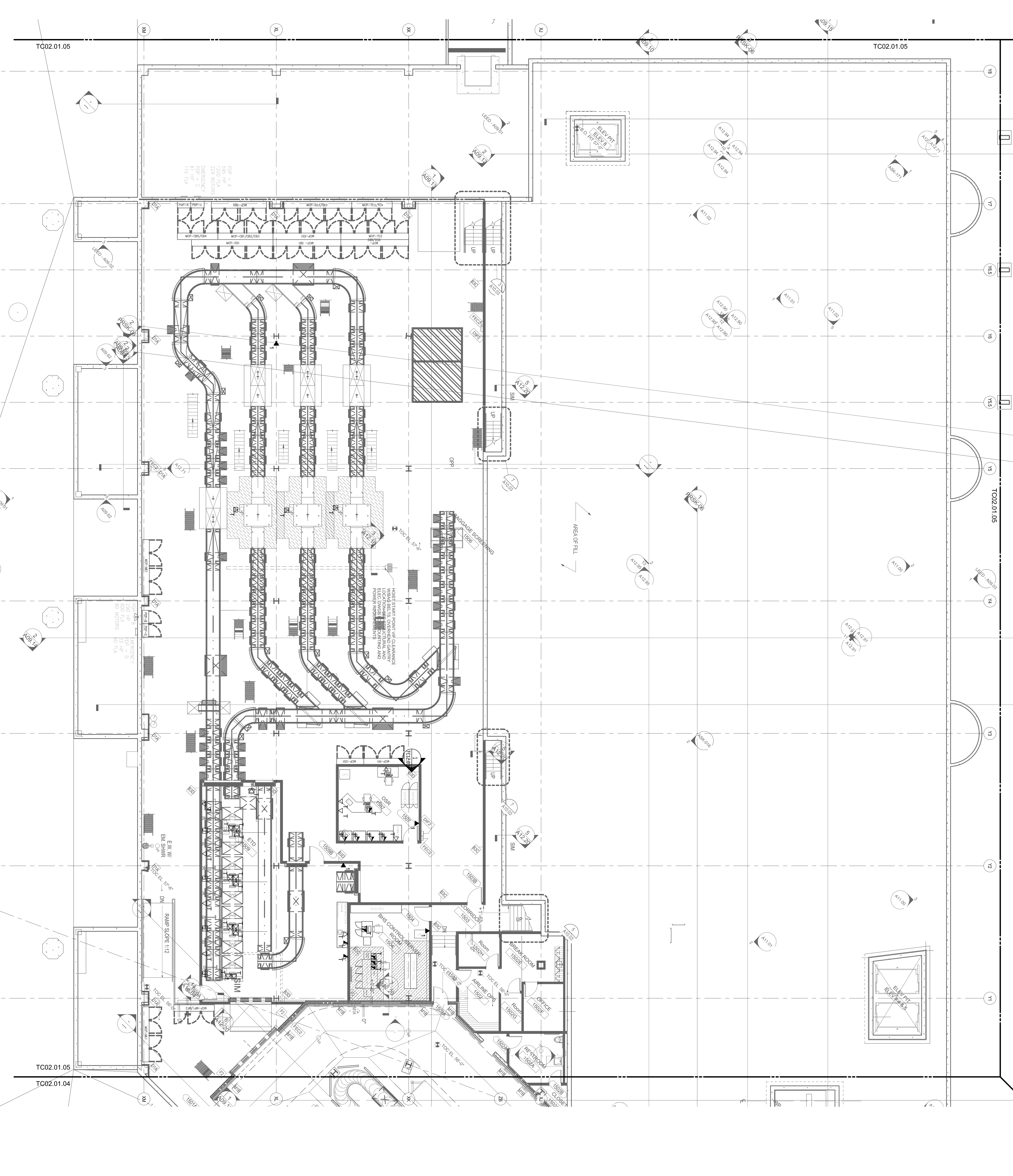
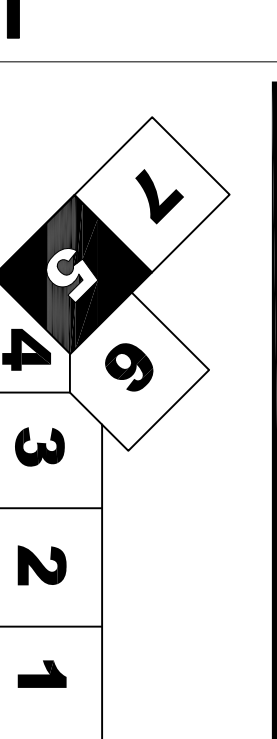
**ARORA**  
Architectural  
Engineers, Inc.

61 Wilmington - West Chester  
Suite #100  
Chadds Ford, PA 19317  
302.386.1000  
F: (610) 459-7959

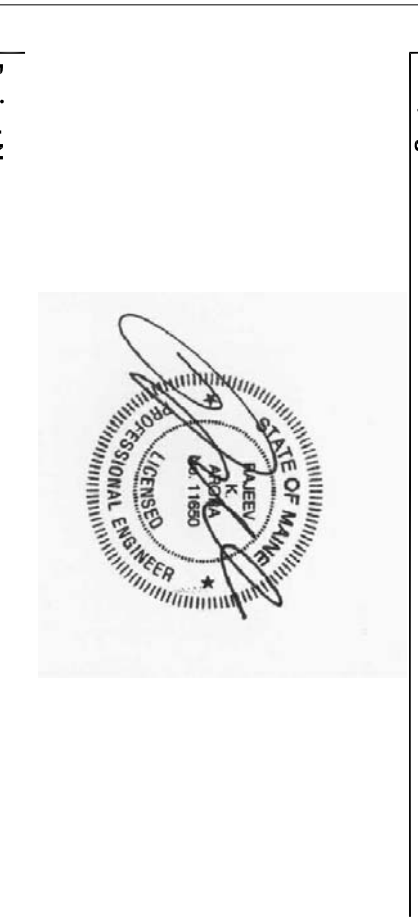
**GENERAL NOTES**

- A REFER TO DRAWING TC02.01.05 FOR DEMOLITION NOTES.
- B CONTRACTOR FLOOR TO ANY TRAFFIC STOP CONSTRUCTION WITH ALL SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND FLOOR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR SHALL VERIFY THE EXACT ROUTE.
- D CONTRACTOR SHALL CORE DRILL 1/4" PLOT HOLE PRIOR TO CORE DRILLING AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL NOT DEPART EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN FIELD VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SIZED TO ALLOW FOR 20% OVERSIZING TO 40% MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE CONCEALED IN CONDUIT AND SIZED TO ALLOW FOR 20% OVERSIZING TO 40% MAXIMUM FILL.
- I ADP AND SIZE JUNCTION BOXES AT CONDUIT ENTRY POINTS SHALL BE AS REQUIRED AND MEET STANDARDS FOR BED RADIUS.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR PEX TUBING WITHIN THE SLAB ASSEMBLY.

**KEY PLAN**



Issue	Date & Issue Description	By	Check
145	09/01/11	SSB	PKA
ISSUED FOR CONSTRUCTION			



Project Name: **PJM TERMINAL EXPANSION**  
 CAD File Name: **TC02.01.05**  
 Description: **TELECOMMUNICATIONS CONSTRUCTION PLAN - LEVEL 1 - ZONE 5**  
 As Indicated

**TC02.01.05**



SHEET NOTES

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

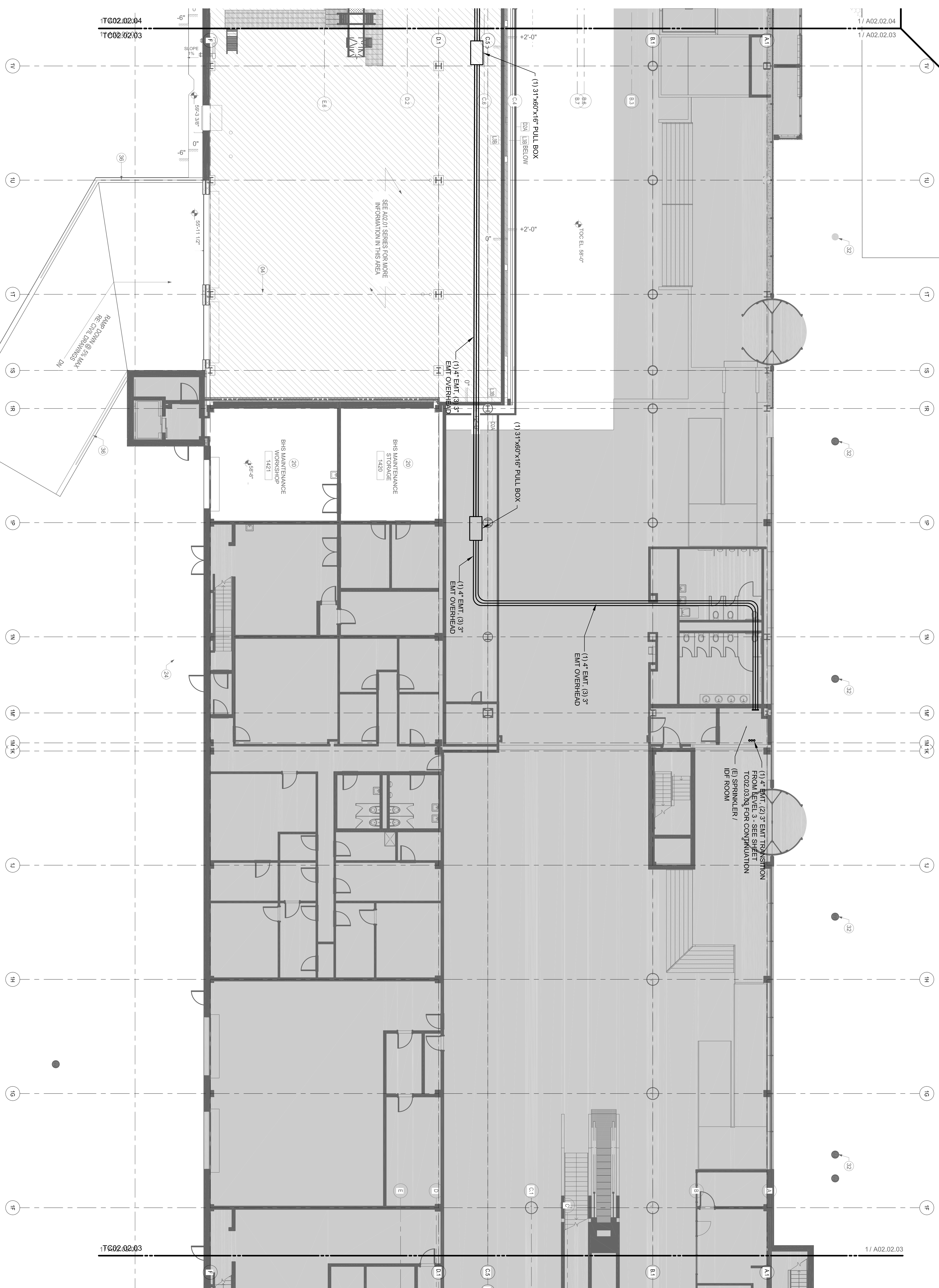
2020 K Street, Northwest  
Suite 200 DC - 20006  
Washington DC 20004  
Tel: (202) 771-1000  
Facsimile: 202.872.8587

**ARORA**  
Structural Engineers

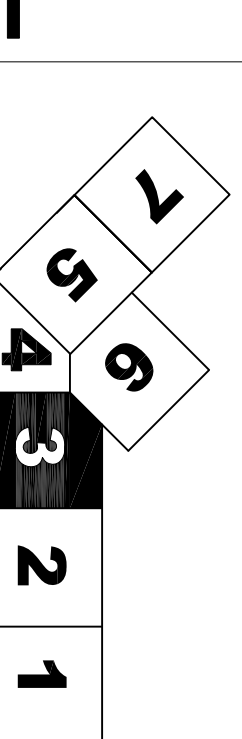
Arora Engineers, Inc.  
61 Wilmington - West Chester  
Suite #100  
Chadds Ford PA 19317  
Tel: (610) 459-7900  
Fax: (610) 459-7950

GENERAL NOTES

- A REFER TO DRAWING TC02.02.04 FOR DEMOLITION NOTES.
- B CONTRACTOR RISK TO ANY DAMAGE TO EXISTING UTILITIES SHALL BE ONLY SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN EXPOSED WHERE POSSIBLE OR IF PERMITTED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND DOOR SLEWS SHALL BE SLEAVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR SHALL VERIFY THE EXACT ROUTE DAMAGED BY WORK OF THIS CONTRACT.
- D CONTRACTOR SHALL CORE DRILL 1/4" PLOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL VERIFY THE EXACT ROUTE AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL DO NOT DEPART EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN ON DRAWING. CONTRACTOR SHALL VERIFY THE EXACT ROUTE FIELD.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SLEAVED TO PROTECT FROM DAMAGE. SLEAVING SHALL BE COMPLETED TO EXCEED THE 40% MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE INSTALLED IN CONDUIT. LOCATIONS INDICATED ON DRAWINGS TC.02.05 AND TC12.06.
- I ACP AND SIZE LUNCTION BOXES AT CONDUIT ENDS SHALL BE INSTALLED AT AND TIA/EIA STANDARDS FOR BED RADII.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR PEX TUBING WITHIN THE SLAB ASSEMBLY.

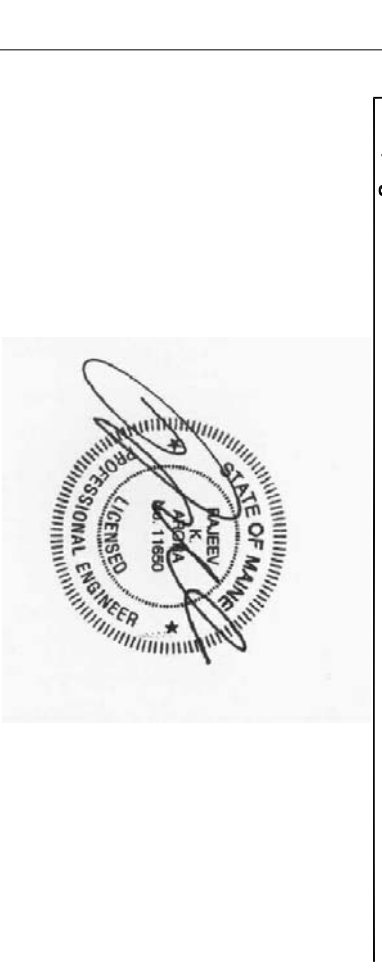


KEY PLAN



LEVEL 2 - ZONE 3  
SCALE: 1/8" = 1'-0"

Issue	Date & Issue Description	By	Check
145	09/01/11	SMB	RAK
ISSUED FOR CONSTRUCTION			



Project Name: **PMM TERMINAL EXPANSION**  
 CAD File Name: **TC02.02.03**  
 Description: **TELECOMMUNICATIONS CONSTRUCTION PLAN - LEVEL 2 - ZONE 3**  
 As Indicated

**TC02.02.03**  
©2006 Gensler



Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

2020 K Street, Northwest  
Suite 200 DC 20006  
Washington, DC 20004  
Tel: (202) 872-8800  
Fax: (202) 872-8887

**ARORA**  
Architectural  
Engineers, Inc.

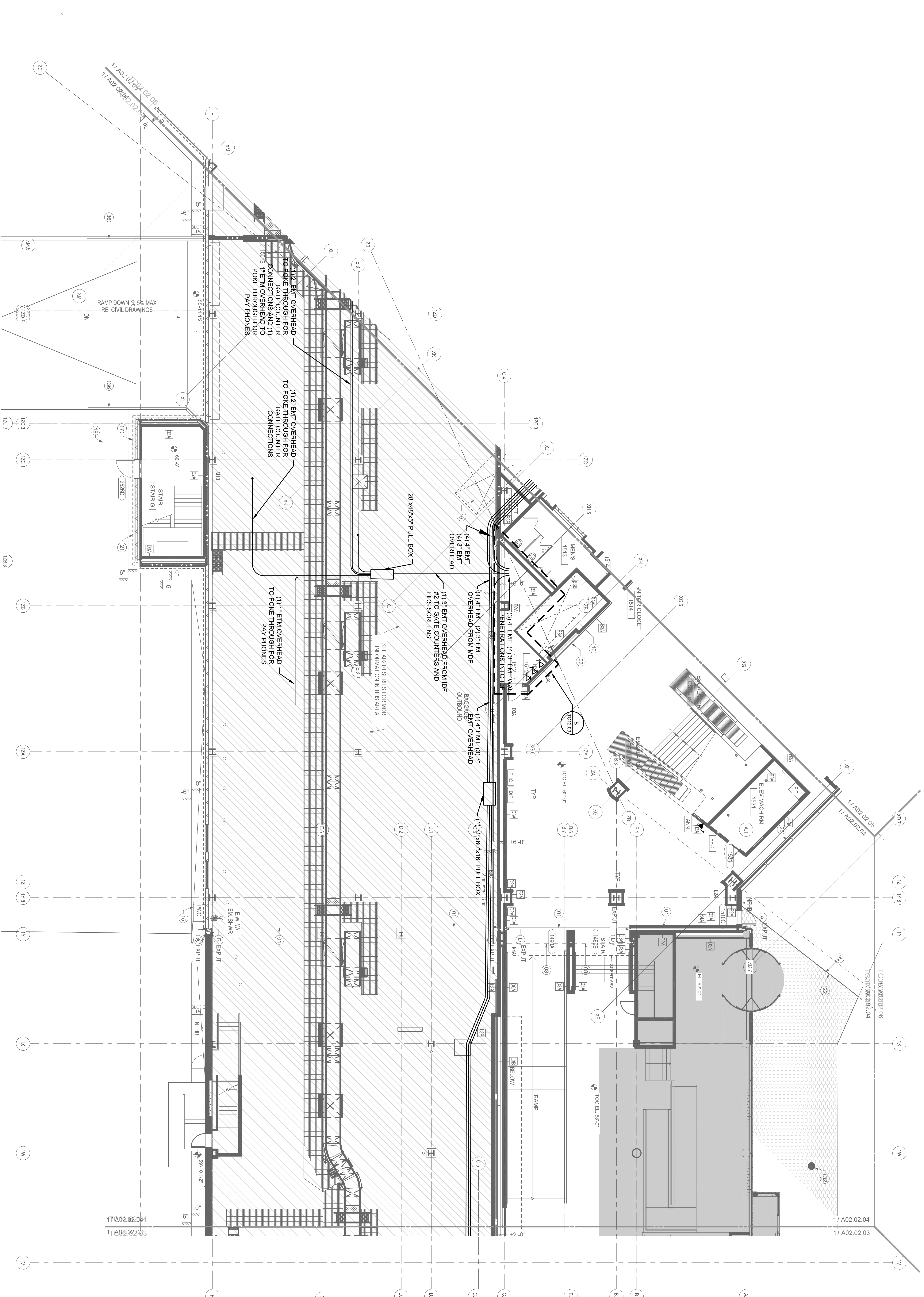
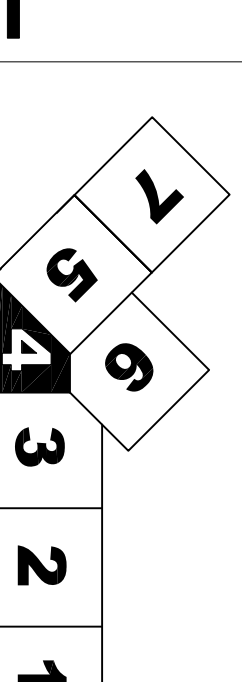
61 Wilmington - West Chester  
Suite #100  
Charles Ford PA 19317  
Tel: (610) 459-7999  
Fax: (610) 459-7999

SHEET NOTES

GENERAL NOTES

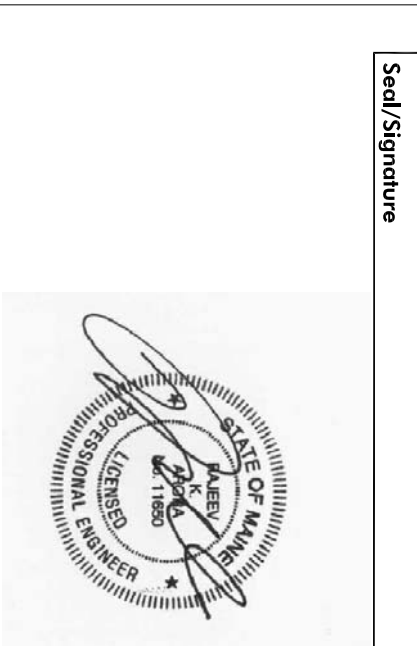
- A REFER TO DRAWING TC02.04 FOR DEMOLITION NOTES.
- B CONTRACTOR PRIOR TO ANY TRADES STOP WORK SHALL BE ONLY SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND COR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR DAMAGED BY WORK OF THIS CONTRACT.
- D CONTRACTOR SHALL CORE DRILL 1/4" PLOT HOLE PRIOR TO CORE DRILLING, AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR DO NOT DEPART EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN FIELD VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SLEEVES SHALL BE INSTALLED TO EXCEED THE 40% MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE INDICATED ON DRAWINGS TC.02.05 AND TC.12.06.
- I ADD AND SIZE JUNCTION BOXES AT CONDUIT JUNCTIONS PER EX. 314 AND TRADE STANDARDS FOR BED RADII.
- J ANY PENETRATION THROUGH THE FLOOR RADIANT FLOOR FLEX TUBING WITHIN THE SLAB ASSEMBLY.
- K ALL POKE THROUGH TO SLAB ABOVE NEED TO BE COORDINATED WITH RADIANT FLOOR FLEX TUBING WITHIN THE SLAB ASSEMBLY.

KEY PLAN



LEVEL 2 - ZONE 4  
SCALE: 1/8" = 1'-0"

Revision	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RAK



Project Name: **PWM TERMINAL EXPANSION**  
 CAD File Name: **TC02.02.04**  
 Description: **TELECOMMUNICATIONS CONSTRUCTION PLAN - LEVEL 2 - ZONE 4**  
 Scale: **As Indicated**

**TC02.02.04**



**Portland International  
Jetport**  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**  
2020 K Street, Northwest  
Suite 200 DC 20006  
Washington, DC 20004  
Tel: (202) 857-8800  
Fax: (202) 857-8887

**ARORA**  
Structural Engineers, Inc.  
61 Wilmington - West Chester  
Suite #100  
Chester, PA 19317  
Tel: (610) 459-7999  
Fax: (610) 459-7999



Project Name: **PJM TERMINAL EXPANSION**

Contract Number: **TC02.02.05**

Discipline: **TELECOMMUNICATIONS**

Construction Plan: **LEVEL 2 - ZONE 5**

Scale: **AS INDICATED**

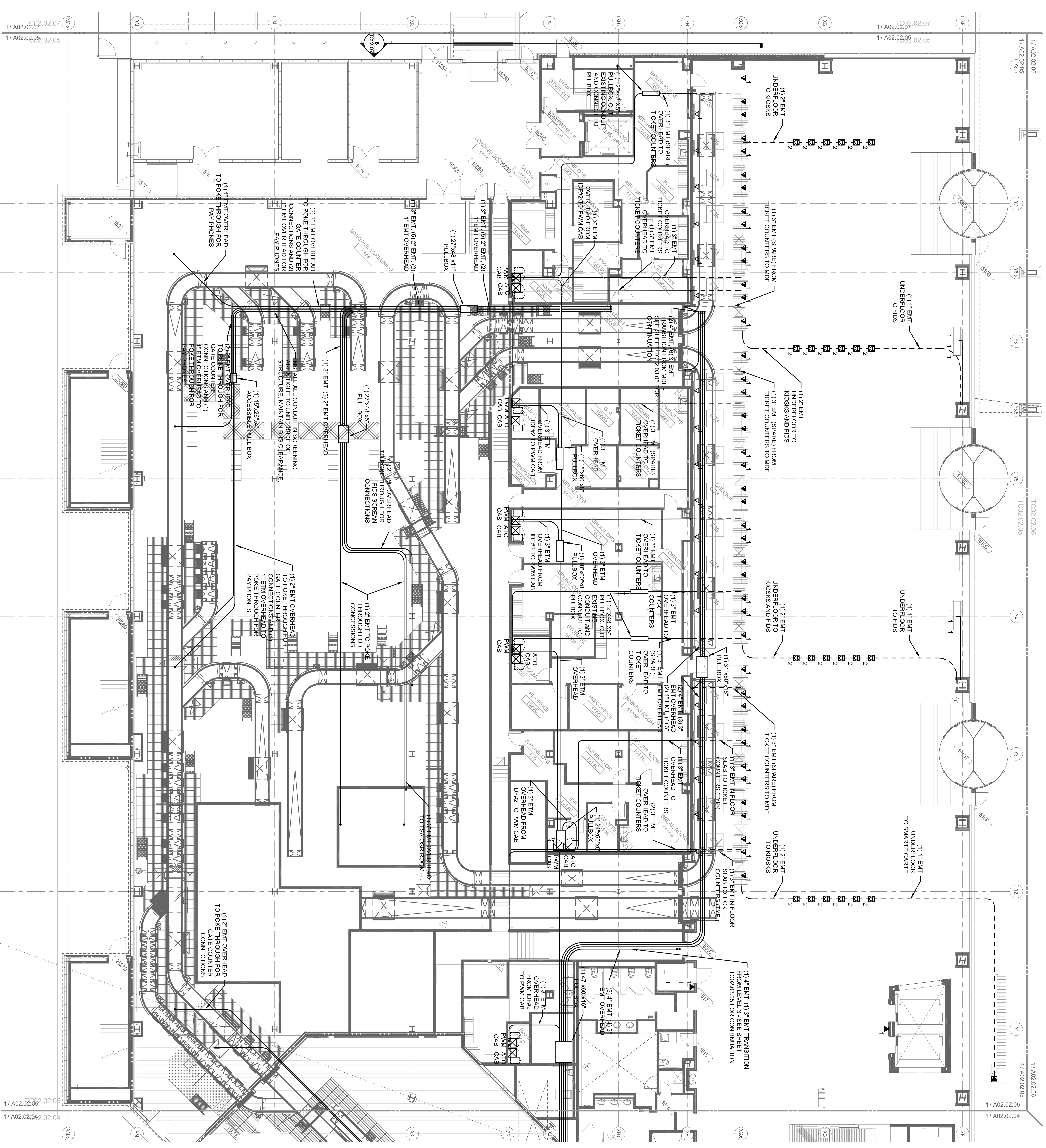
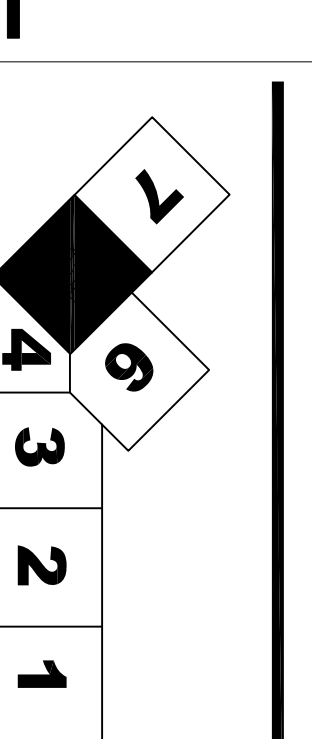
**TC02.02.05**

©2006 Gensler

**GENERAL NOTES**

- A REFER TO DRAWING T020100 FOR DEMOLITION NOTES.
- B CONTRACTOR PROR TO ANY TRADES SHALL VERIFY ALL TRADES SHALL BE ONLY SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE PROTECTED BY A MINIMUM 1/2" THICK CONCRETE SLAB. ALL DATA OUTLET LOCATIONS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND DOOR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR SHALL VERIFY THE RATED FIRE STOPPING MATERIAL IS NOT DAMAGED BY WORK OF THIS CONTRACT.
- D CONTRACTOR SHALL CORE DRILL 1/4" DIA. HOLE FROM TO CORE DRILLING POINT TO THE CENTER OF THE CORE AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLET ARE FOR DO NOT DEPEND EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLET AS ADJACENT TO NEW DATA AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN ON DRAWING. CONTRACTOR SHALL FIELD VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SIZED TO ALLOW FOR 20% FUTURE EXPANSION. CONDUIT SHALL BE SLEAVED THE 40% MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE INSTALLED IN CONDUIT AND SIZED AS INDICATED ON DRAWINGS. T/C'S AND T/C12.06.
- I ALL VOICE AND DATA CABLING SHALL BE INSTALLED IN CONDUIT AND SIZED AS INDICATED ON DRAWINGS. T/C'S AND T/C12.06.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR PEX TUBING WITHIN THE SLAB ASSEMBLY.

**KEY PLAN**





SHEET NOTES

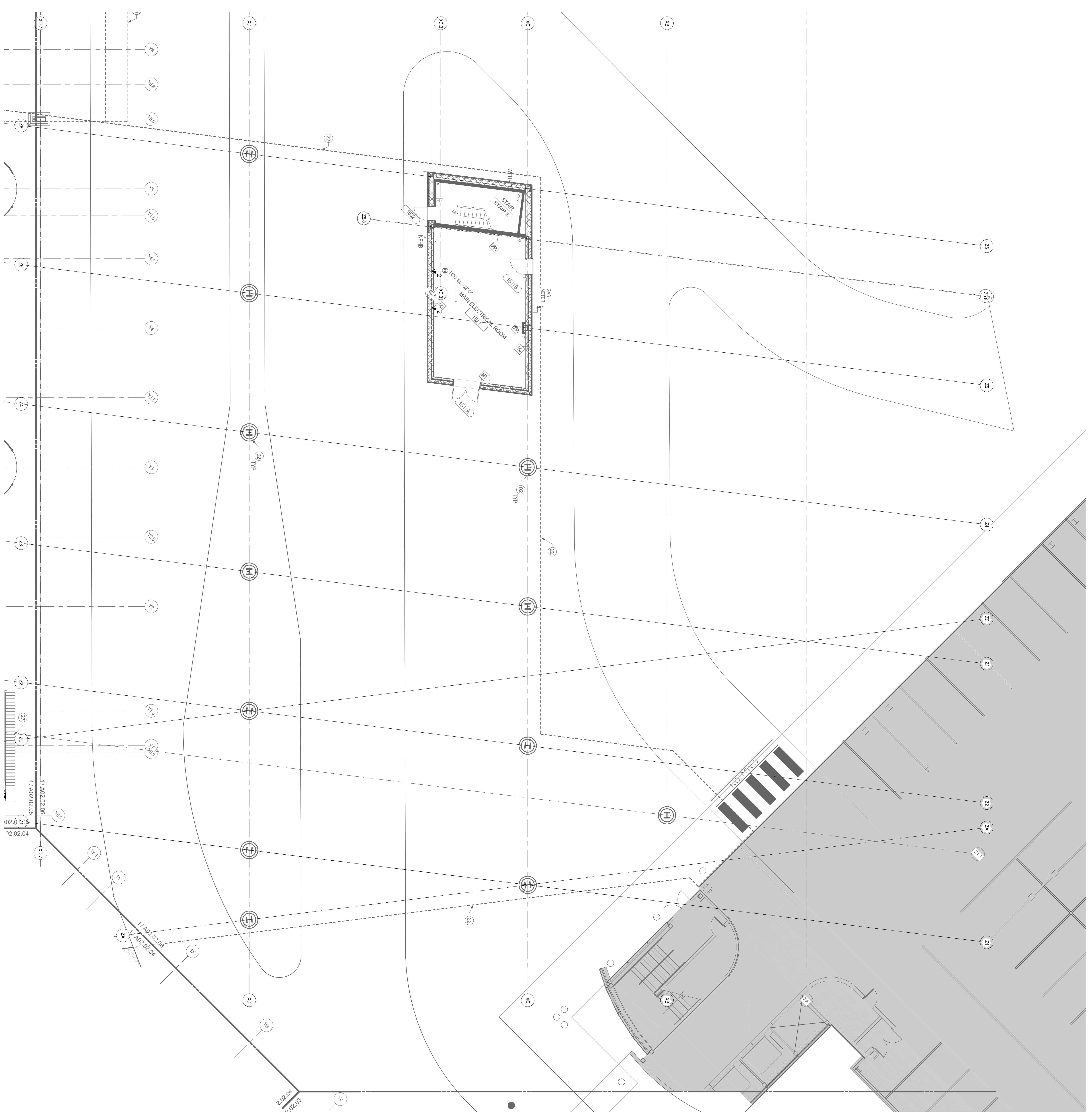
Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**  
2020 K Street, Northwest  
Suite 200 DC - 20006  
Washington, DC 20211  
Telephone 202.872.8587  
Facsimile 202.872.8587

**Arona Engineers, Inc.**  
61 Wilmington - West Chester  
Suite #100  
Chadds Ford, PA 19317  
Telephone 302.388.7800  
Facsimile 302.388.7990

GENERAL NOTES

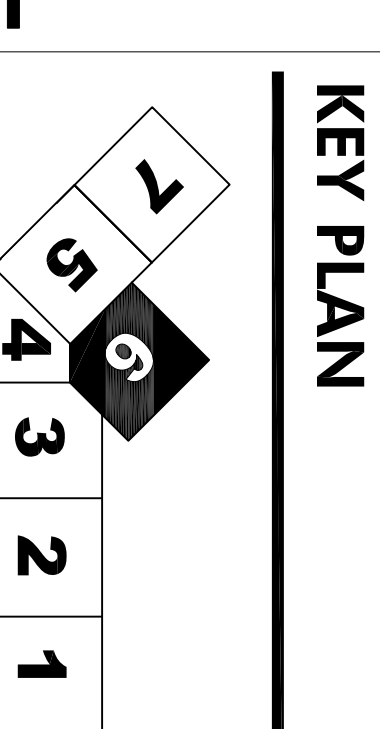
- A REFER TO DRAWING TC02.02.06 FOR DEMOLITION NOTES.
- B CONTRACTOR PRIOR TO ANY TRADES STOP WORKING WITH ALL TRADES STOP WORKING WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED, SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE INSTALLED AT THE TOP OF THE WALL. DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND COR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR DAMAGED BY WORK OF THIS CONTRACT.
- D CONTRACTOR SHALL CORE DRILL 1/4" PLOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL PROTECT THE AREA AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL DO NOT DEPART EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW DATA OUTLETS AS REQUIRED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR TO FIELD VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SLEEVED THROUGH WALLS AND COR SLABS TO A MAXIMUM FILL. INDICATED ON DRAWINGS TO 1/2" O.D. AND TO 1/2" O.D. AND TO 1/2" O.D.
- H ALL VOICE AND DATA CABLING SHALL BE CONCEALED IN CONDUIT AND SLEEVED THROUGH WALLS AND COR SLABS TO A MAXIMUM FILL. INDICATED ON DRAWINGS TO 1/2" O.D. AND TO 1/2" O.D. AND TO 1/2" O.D.
- I ADP AND SIZE LIGATION BOXES AT CONDUIT ENTRY POINTS SHALL BE TO MEET STANDARDS FOR BED RADIUS.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR FLEX TUBING WITHIN THE SLAB ASSEMBLY.



LEVEL 2 - ZONE 6

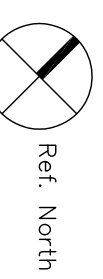
SCALE: 1/8" = 1'-0"

KEY PLAN



KEY PLAN

TC02.02.06



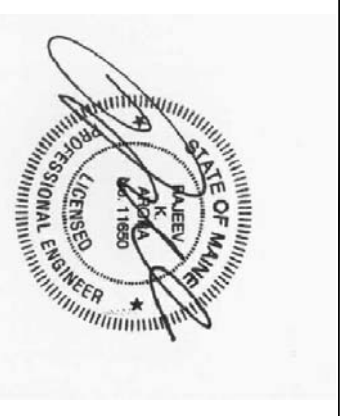
As Indicated

Project Name: **PWM TERMINAL EXPANSION**

Contract Number: \_\_\_\_\_

Contract Date: \_\_\_\_\_

Contractor: **TELECOMMUNICATIONS CONSTRUCTION PLAN - LEVEL 2 - ZONE 6**



Issue	Date & Issue Description	By	Check
145	09/01/11	SIB	RAK
ISSUED FOR CONSTRUCTION			

© 2006 Gensler



SHEET NOTES

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

Gensler

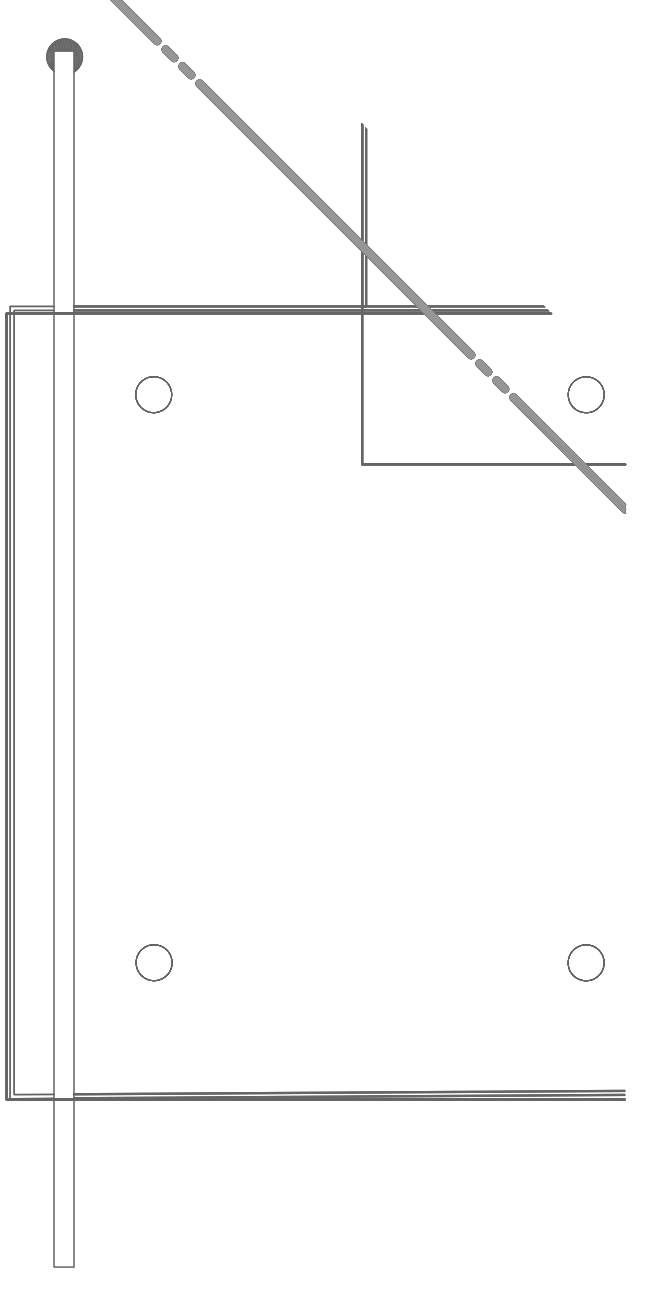
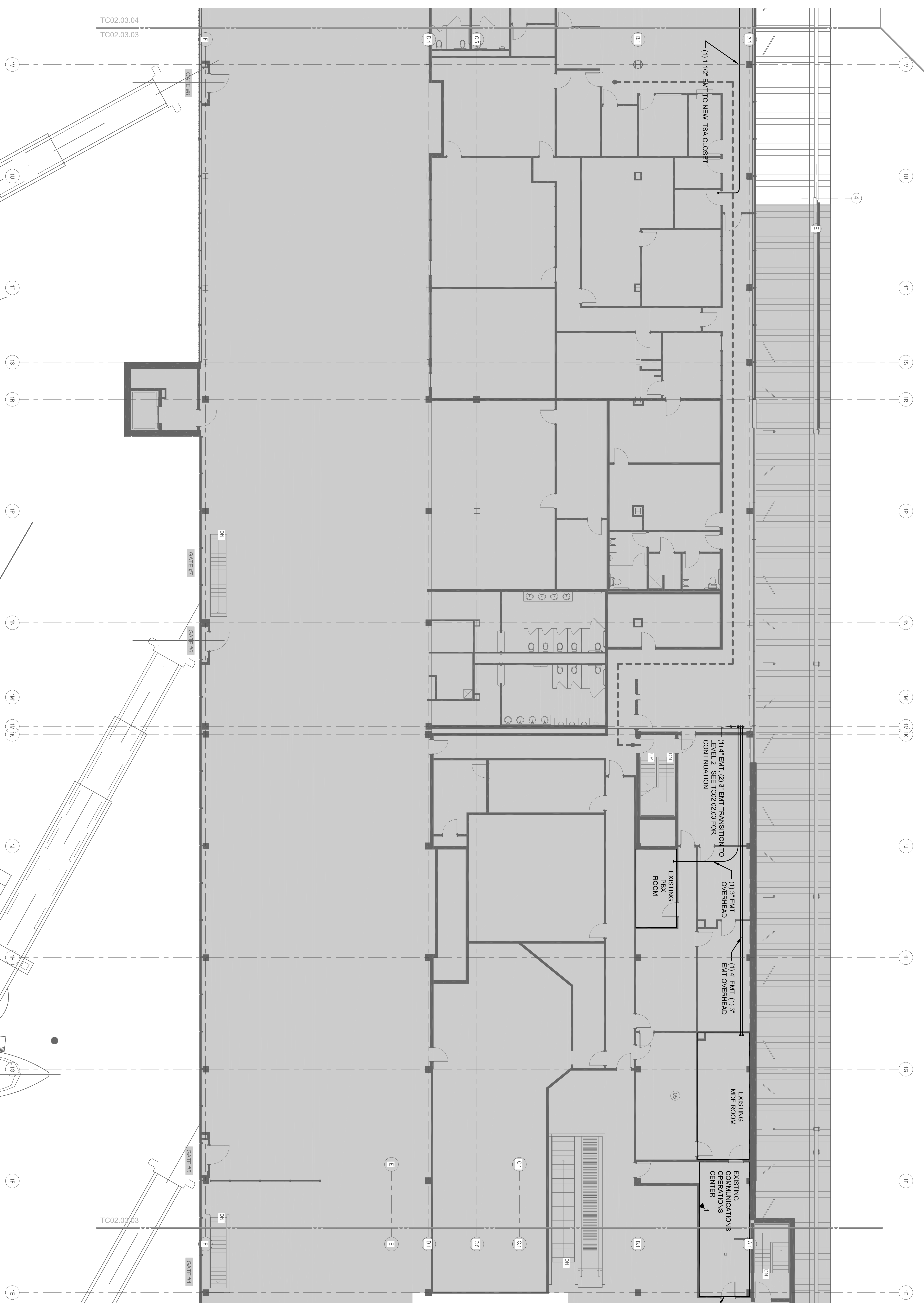
2020 K Street, Northwest  
Suite 200 DC - 20006  
Washington DC 20004  
Tel: (202) 872-8800  
Fax: (202) 872-8887



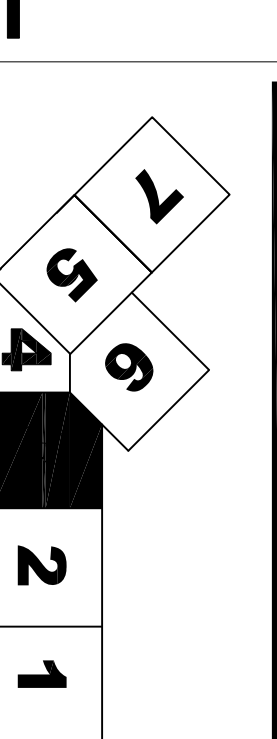
Arora Engineers, Inc.  
61 Wilmington - West Chester  
Suite #100 PA 19317  
Chadds Ford PA 19317  
Tel: (610) 459-7990  
Fax: (610) 459-7990

GENERAL NOTES

- A REFER TO DRAWING TC02.03.04 FOR DEMOLITION NOTES.
- B CONTRACTOR FLOOR TO ANY NEW FLOOR CONSTRUCTION SHALL BE ONLY SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED, SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND FLOOR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR SHALL VERIFY THE EXACT ROUTE.
- D CONTRACTOR SHALL CORE DRILL 1/4" PLOT HOLE PRIOR TO CORE DRILLING, AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL DO NOT DEPART EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN ON DRAWINGS. CONTRACTOR SHALL VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SLEEVES SHALL BE INSTALLED TO EXCEED THE 40% MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE INSTALLED TO EXCEED THE 40% MAXIMUM FILL.
- I ADR AND SIZE LIGATION BORES AT CONDUIT ENTRY SHALL EXCEED 3/4" AND TWELVE STANDARDS FOR BORE RADIUS.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR PEX-TUBING WITHIN THE SLAB ASSEMBLY.



KEY PLAN



LEVEL 3 - ZONE 3

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

Issue	Date & Issue Description	By	Check
145	09/01/11	SJB	RAK
ISSUED FOR CONSTRUCTION			



Project Name: **PWV TERMINAL EXPANSION**  
 CAD File Name: **TC02.03.03**  
 Description: **TELECOMMUNICATIONS CONSTRUCTION PAK - B1B.3 - ZONE 3**  
 Title: **As Indicated**

**TC02.03.03**

©2006 Gensler

**SHEET NOTES**

(1) REFER TO DRAWING TC02.02.04 FOR CONDUIT PATH TO GATE COUNTERS FROM IDF #12.

**Portland International Jetport**  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

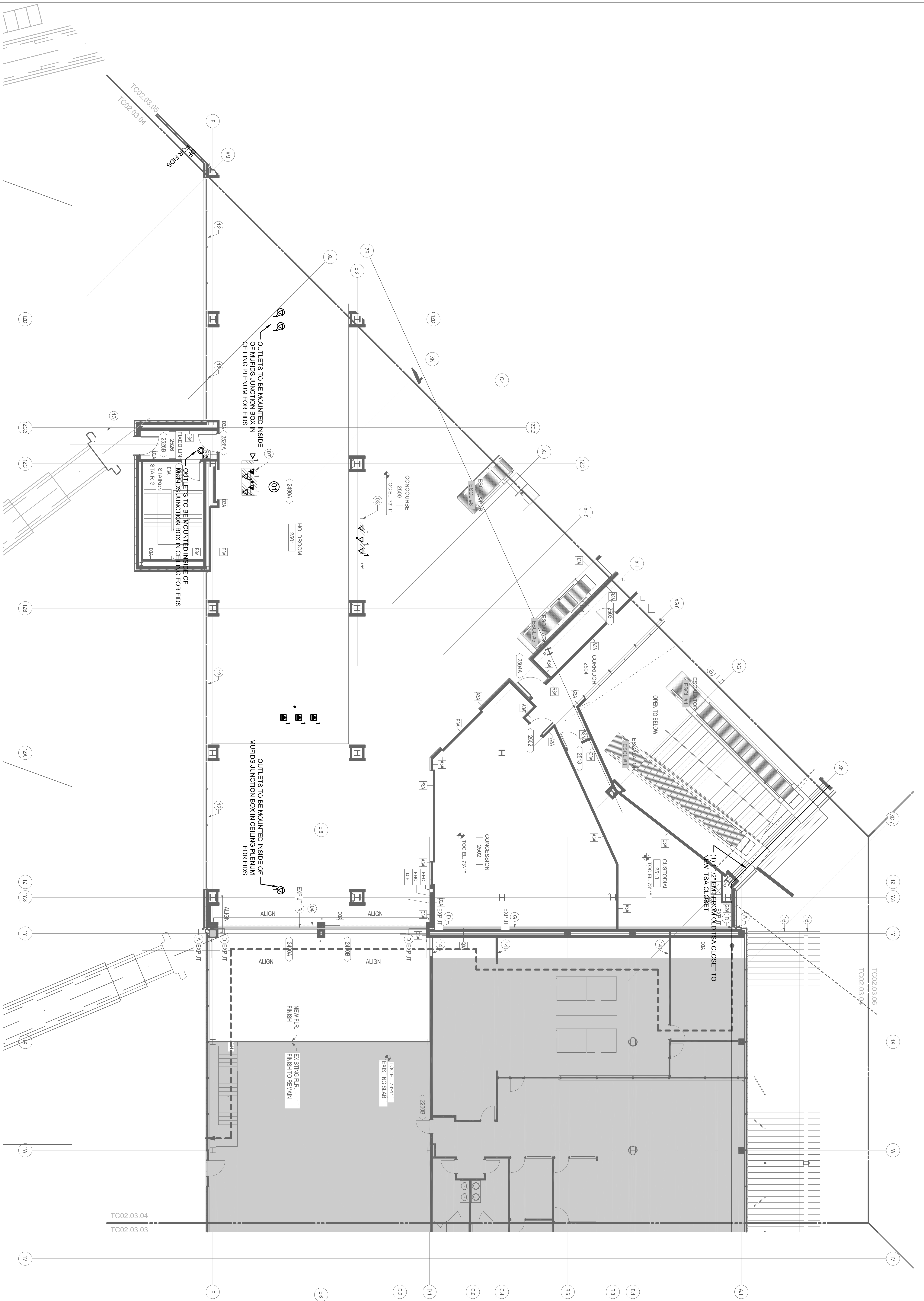
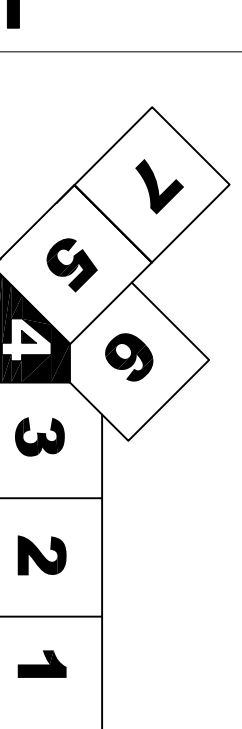
2020 K Street, Northwest  
Suite 200 DC 20006  
Washington, DC 20004  
Telephone 202.872.8587  
Facsimile 202.872.8587

**ARORA**  
ARCHITECTS  
61 Wilmington - West Chester  
Suite #100  
Charles Ford, PA 19317  
Telephone 610.459-7999  
Facsimile 610.459-7999

**GENERAL NOTES**

- A REFER TO DRAWING TC02.02.04 FOR DEMOLITION NOTES.
- B CONTRACTOR PRIOR TO ANY TRADES WORK SHALL VERIFY ALL TRADES SHOP DRAWINGS WILL BE ONLY SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND FLOOR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR DAMAGED BY WORK OF THIS CONTRACT.
- D CONTRACTOR SHALL CORE DRILL 1/4" PLOT HOLE FROM TO CORE DRILLING. CONTRACTOR SHALL VERIFY THE LOCATION AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR DO NOT DEPART EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW DATA AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN FIELD VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SIZED TO ALLOW 20% TO 30% OVERSIZING MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE CONCEALED IN CONDUIT AND SIZED AS INDICATED ON DRAWINGS TO 125% AND TO 120%.
- I ADD AND SIZE JUNCTION BOXES AT CONDUIT JUNCTIONS IN ACCORDANCE WITH ALL APPLICABLE STANDARDS FOR BEND RADII.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE SLAB ASSEMBLY.

**KEY PLAN**



**LEVEL 3 - ZONE 4**  
SCALE: 1/8" = 1'-0"

Issue	Date & Issue Description	By	Check
145	09/01/11	SJB	RAK
ISSUED FOR CONSTRUCTION			



**Project Name:**  
PJM TERMINAL EXPANSION

**Project Number:**  
TC02.03.04

**Discipline:**  
TELECOMMUNICATIONS

**CONSTRUCTION PLAN - LEVEL 3 - ZONE 4**

As Indicated

**TC02.03.04**

© 2006 Gensler



**SHEET NOTES**

- (1) REFER TO DRAWING TC02.02.05 FOR CONDUIT PATH TO GATE COUNTERS FROM MDP
- (2) COORDINATE WITH STRUCTURAL, MECHANICAL AND FIRE PROTECTION ROUTING IN THE CEILING PRIOR TO CONSTRUCTION DUE TO LIMITED SPACE IN CEILING.

**Portland International Jetport**  
 1001 Westbrook Street  
 Portland, Maine 04102

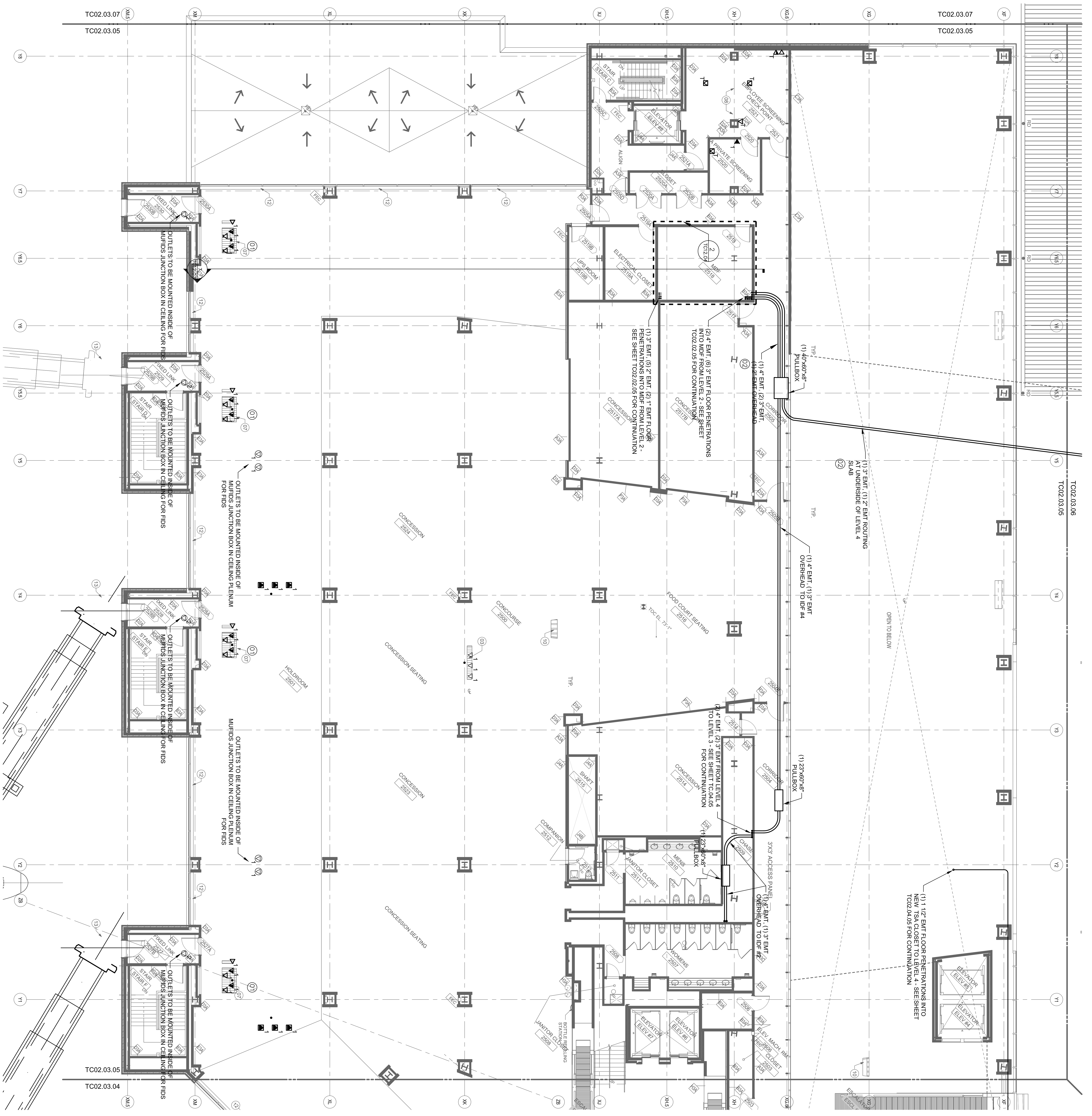
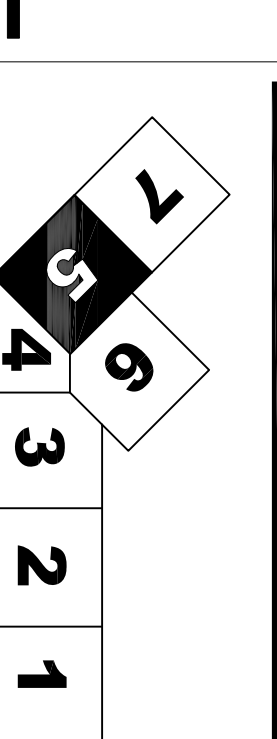
**Gensler**  
 2020 K Street, Northwest  
 Suite 200, DC 20006  
 Washington, DC 20004  
 Telephone: 202.872.8587  
 Facsimile: 202.872.8587

**Arora Engineers, Inc.**  
 61 Wilmington - West Chester  
 Suite #100  
 Charles Ford, PA 19317  
 Telephone: 610.459-7990  
 Fax: (610) 459-7959

**GENERAL NOTES**

- A REFER TO DRAWING TC02.02 FOR DEMOLITION NOTES.
- B CONTRACTOR PRIOR TO ANY TRADES SHALL VERIFY WITH ALL TRADES SHOP DRAWINGS WILL BE ONLY SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND FLOOR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR DAMAGED BY WORK OF THIS CONTRACT.
- D CONTRACTOR SHALL CORE DRILL, 1/4" PLOT HOLE FROM TO CORE DRILLING, AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTORS SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL DO NOT DEPART EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW DATA AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN FIELD VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SIZED TO ALLOW 20% TO EXCEED THE 40% MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE INSTALLED IN CONDUITS AS INDICATED ON DRAWINGS TC12.05 AND TC12.06.
- I ADP AND SITE JUNCTION BOXES AT CONDUIT END SHALL BE EX 314 AND TWEVA STANDARDS FOR BED RADIUS.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR EX-TUBING WITHIN THE SLAB ASSEMBLY.

**KEY PLAN**



**LEVEL 3 - ZONE 5**  
 SCALE: 1/8" = 1'-0"

**TC02.03.05**

Project Name: **PJM TERMINAL EXPANSION**

Contract Number: **TC02.03.05**

Discipline: **TELECOMMUNICATIONS**

CONSTRUCTION PLAN - LEVEL 3 - ZONE 5

As Indicated

145 09/01/11 Date & Issue Description By: **SBM RAK**

158269 FOR CONSTRUCTION



**SHEET NOTES**

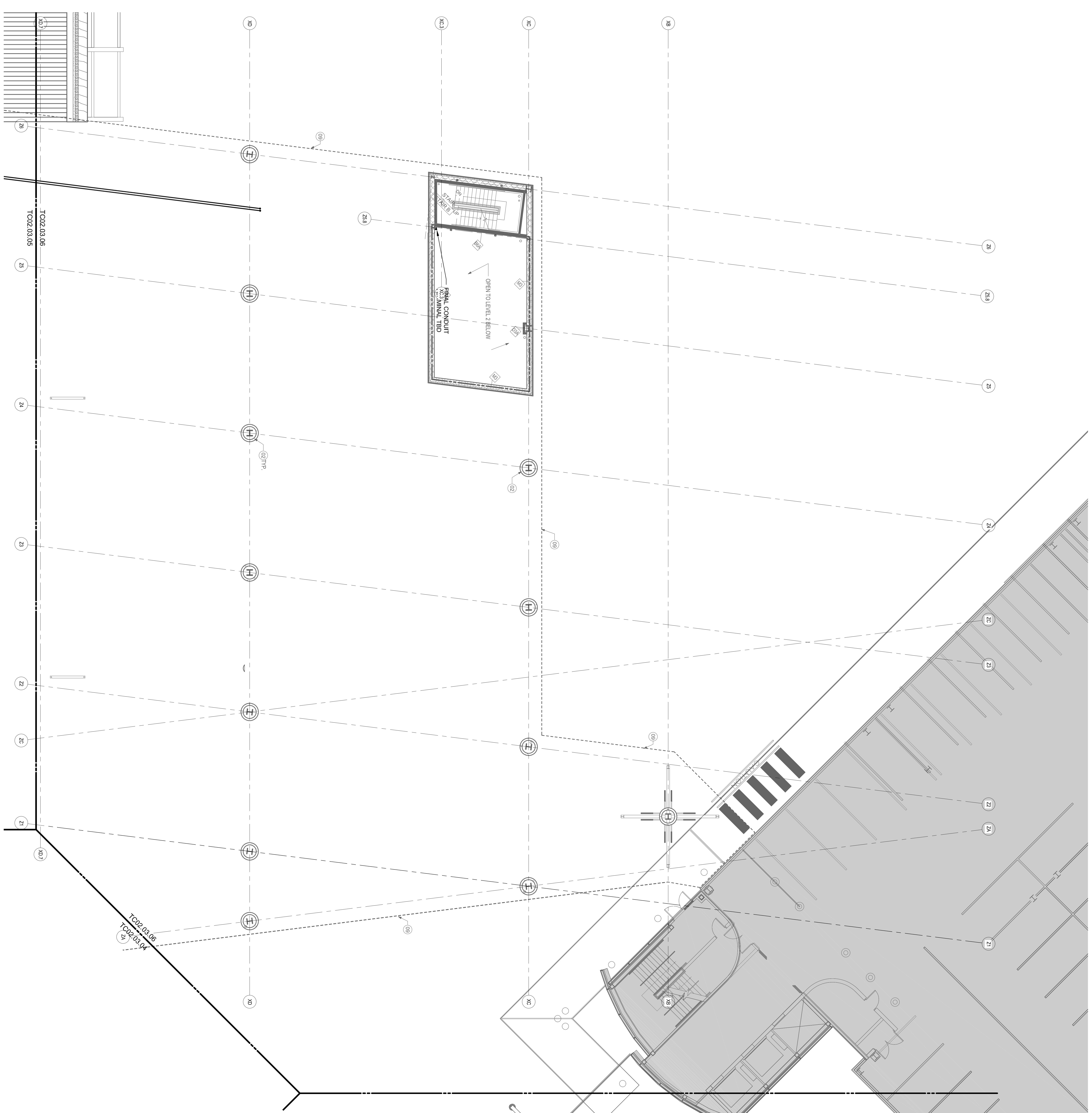
**Portland International  
Jetport**  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**  
2020 K Street, Northwest  
Suite 200 DC 20006  
Washington, DC 20242  
Tel: 202.872.8587  
Fax: 202.872.8587

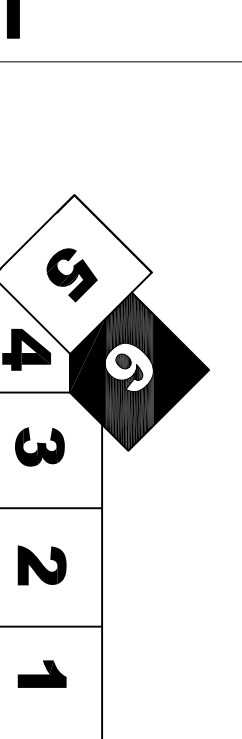
**ARORA**  
Structural Engineers  
61 Wilmington - West Chester  
Suite #100  
Chadds Ford, PA 19317  
Tel: (610) 459-7990  
Fax: (610) 459-7990

**GENERAL NOTES**

- A REFER TO DRAWING TC02.03.06 FOR DEMOLITION NOTES.
- B CONTRACTOR PROOF TO ANY TRADES SHOP DRAWINGS WILL BE ONLY SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED, SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE PROTECTED BY A MINIMUM 2" CONCRETE SURROUND. ALL DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES THROUGH WALLS AND TOP OF SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS DAMAGED BY WORK OF THIS CONTRACT.
- D CONTRACTOR SHALL CORE DRILL 1/4" PLOT HOLE PRIOR TO CORE DRILLING. CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL DO NOT DEPICT EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW MONITOR LOCATIONS AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SIZED TO ALLOW FOR 40% EXPANSION. SIZES INDICATED ON DRAWINGS TO EXCEED THE 40% MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE INSTALLED IN CONDUIT AND SIZES INDICATED ON DRAWINGS TO EXCEED THE 40% MAXIMUM FILL.
- I ACP AND SIZE LUNCTION BOXES AT CONDUIT ENTRY POINTS SHALL BE INSTALLED TO MEET STANDARDS FOR BED RADIUS.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR PEX TUBING WITHIN THE SLAB ASSEMBLY.



**KEY PLAN**



**TC02.03.06**

145 09/01/11  
ISSUED FOR CONSTRUCTION

By: SJB  
Checked: RKA

Project Name: **PJM TERMINAL EXPANSION**

Contract No.: TC02.03.06

Discipline: TELECOMMUNICATIONS

Construction Plan - LEVEL 3, ZONE 6

Scale: As Indicated

© 2006 Gensler

**LEVEL 3 - ZONE 6**

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



**SHEET NOTES**

- (1) COAX AND TELEPHONE LINE RUN TO TERMINAL LINE MUST BE DEMOLISHED. THE LOCAL TELEPHONE SYSTEM AND NOT FROM THE FIBER OPTIC SYSTEM.

**Portland International  
Jetport**  
1001 Westbrook Street  
Portland, Maine 04102

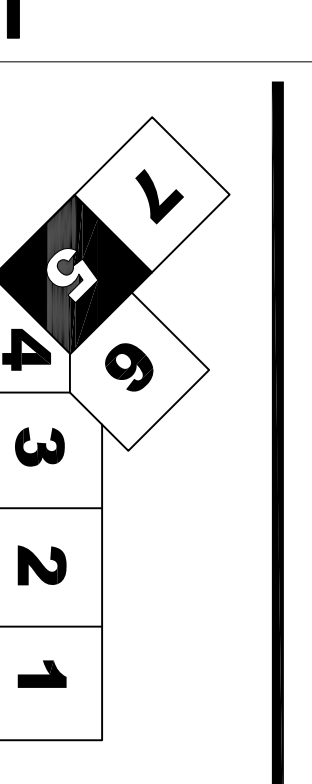
**Gensler**  
2020 K Street, Northwest  
Suite 200 DC - 20006  
Washington, DC 20242  
Telephone 202.872.8587  
Facsimile 202.872.8587

**ARORA**  
Structural Engineers  
61 Wilmington - West Chester  
Suite #100  
Chadds Ford, PA 19317  
Telephone 302.388.2200  
Fax (610) 459-7950

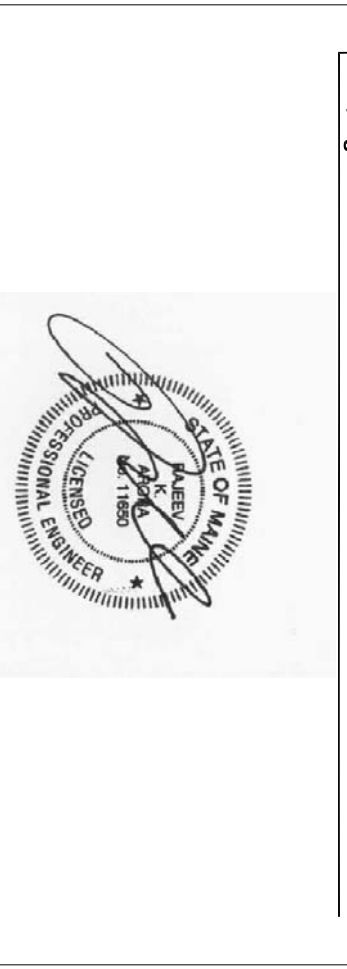
**GENERAL NOTES**

- A REFER TO DRAWING TC02.04.06 FOR DEMOLITION NOTES.
- B CONTRACTOR PRIOR TO ANY TRADES STOP WORKING WITH ALL TRADES STOP WORKING WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED, SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES. THROUGH WALLS AND COR SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR DAMAGED BY WORK OF THIS CONTRACT.
- D CONTRACTOR SHALL CORE DRILL, 1/4" PLOT HOLE PRIOR TO CORE DRILLING, AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL DO NOT DEPART EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW MONITOR LOCATIONS AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN ON DRAWINGS. CONTRACTOR SHALL VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SIZED TO ALLOW 40% TO EXCEED THE 40% MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE CONCEALED IN CONDUIT AND SIZED TO ALLOW 40% TO EXCEED THE 40% MAXIMUM FILL.
- I ADP AND SIZE JUNCTION BOXES AT CONDUIT TERMINATION POINTS EX 314 AND TWEIA STANDARDS FOR BED RADIUS.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR PE-TUBING WITHIN THE SLAB ASSEMBLY.

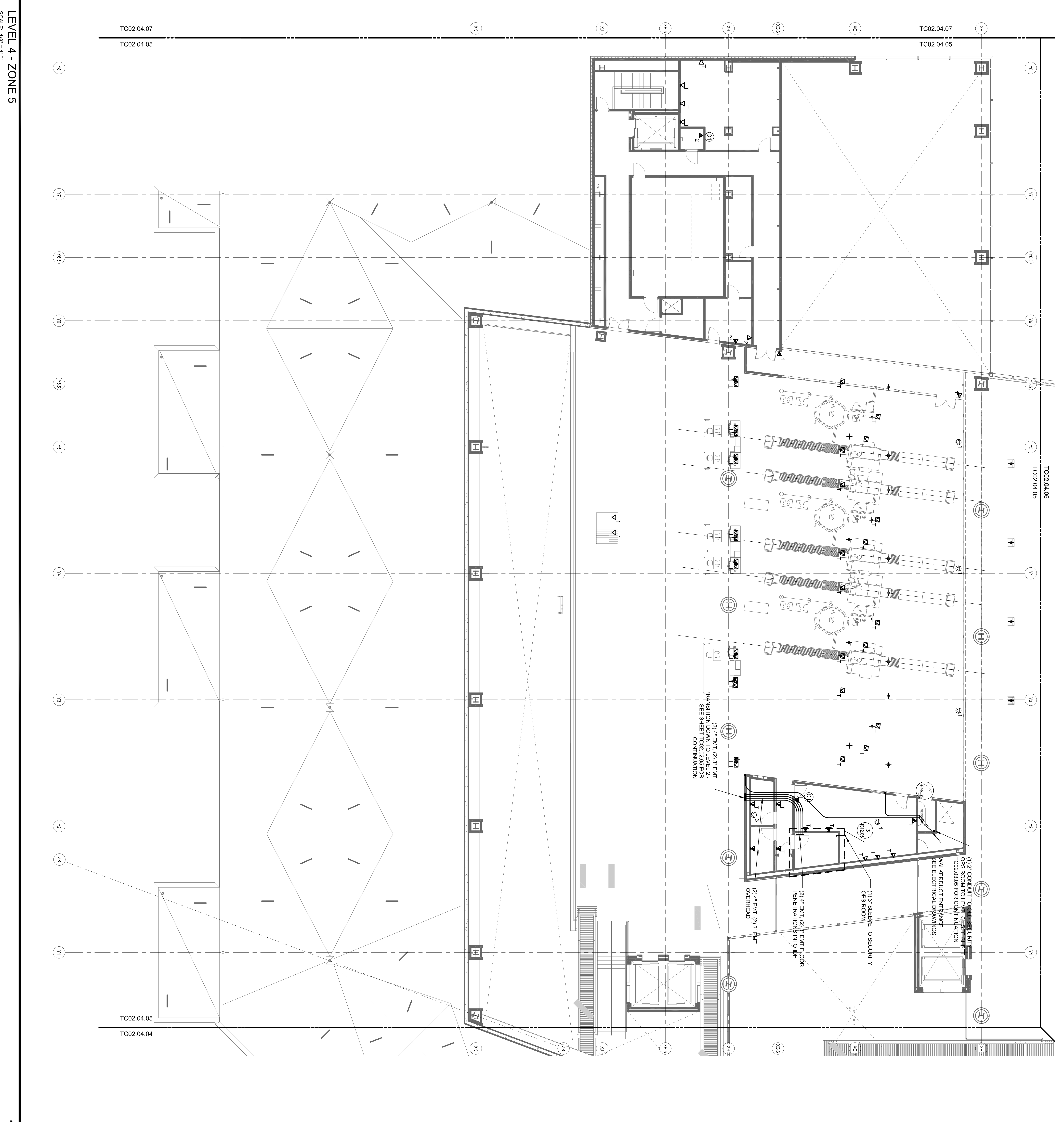
**KEY PLAN**



Project Name: **PJM TERMINAL EXPANSION**  
 Contract Number: \_\_\_\_\_  
 CAD File Name: TC02.04.05  
 Description: TELECOMMUNICATIONS CONSTRUCTION PLAN - LEVEL 4 - ZONE 5  
 Scale: As Indicated



Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	S88	RKA



SHEET NOTES

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

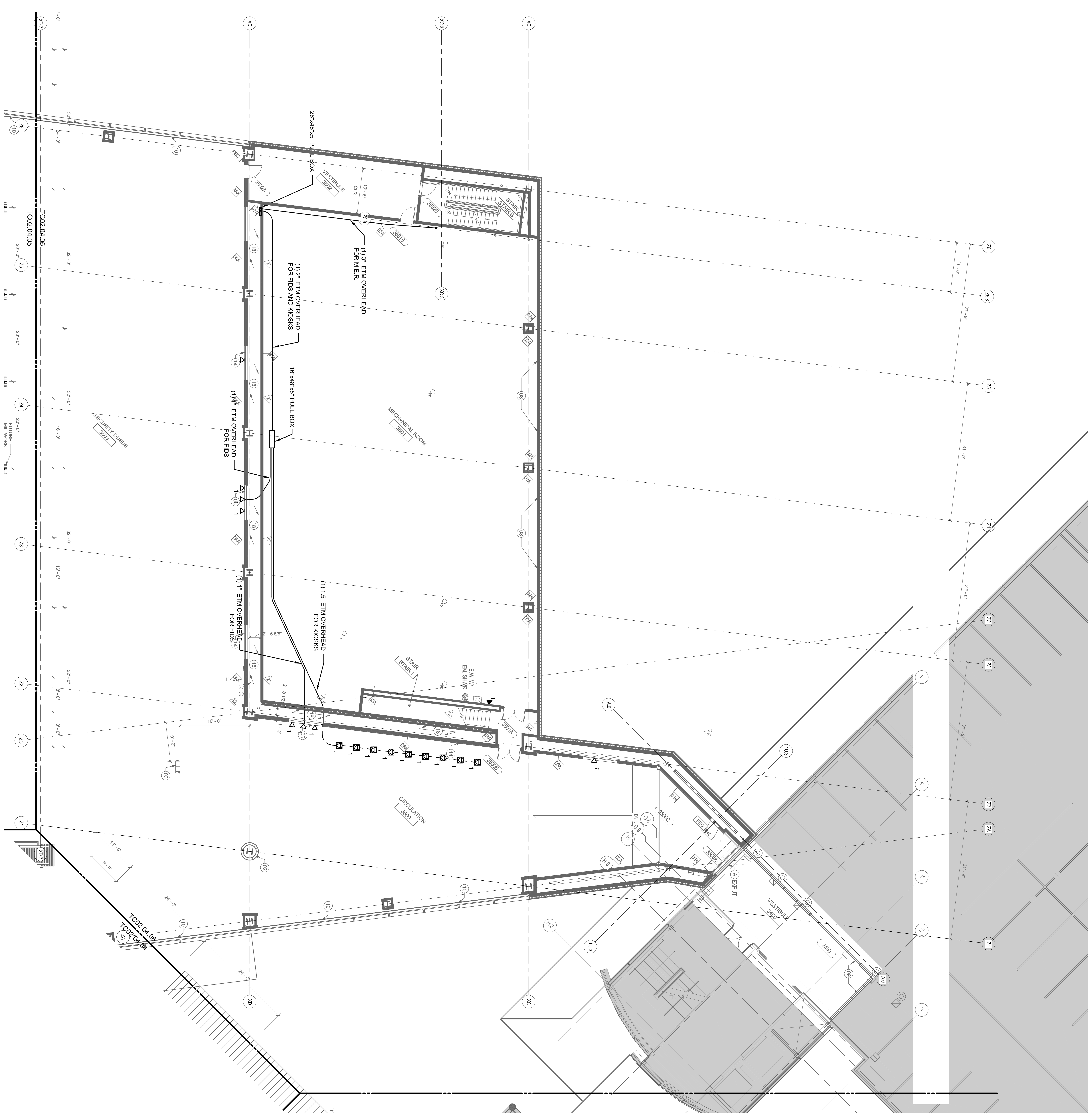
2020 K Street, Northwest  
Suite 200 DC 20006  
Washington, DC 20242  
Telephone 202.872.8587  
Facsimile 202.872.8587

**ARORA**  
Structural Engineers

Arora Engineers, Inc.  
61 Wilmington - West Chester  
Suite #100  
Charles Ford PA 19317  
Telephone 302.388.8888  
F: (610) 459-7959

GENERAL NOTES

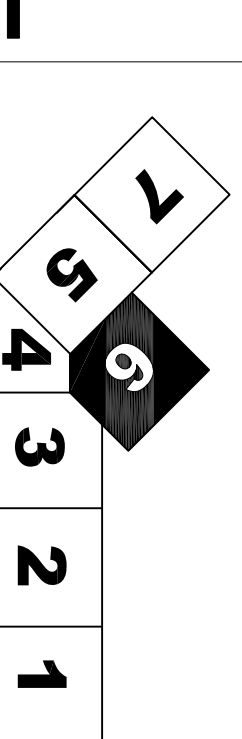
- A REFER TO DRAWING TC02.04.06 FOR DEMOLITION NOTES.
- B CONTRACTOR PROOF TO ANY TRADES SHOP CONDITIONS WITH ALL TRADES SHOP CONDITIONS WILL BE ONLY SUBMITTED AFTER COORDINATION WITH ALL OTHER TRADES HAS BEEN COMPLETED.
- C ALL CONDUITS FOR DATA SHALL BE RUN CONCEALED WHERE POSSIBLE OR IF EXPOSED SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES AND SHALL BE PROTECTED BY A MINIMUM 1" CONCRETE SURFACE. DATA OUTLETS SHALL BE INSTALLED AT NEW MONITOR LOCATIONS AS INDICATED ON THE DRAWINGS AND SCHEDULES. THROUGH WALLS AND ROOF SLABS SHALL BE SLEEVED AND PROPERLY SEALED WITH AN APPROVED AND RATED FIRE STOPPING MATERIAL. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING CONDUITS AND RATED FIRE STOPPING MATERIAL. CONTRACTOR DAMAGED BY WORK OF THIS CONTRACT.
- D CONTRACTOR SHALL CORE DRILL 1/4" PLOT HOLE PATTERN TO CORE DRILLING. CONTRACTOR SHALL VERIFY THE EXACT LOCATION AS TO PROTECT AREA BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE BELOW. CONTRACTOR SHALL CLEAN AREA AFTER INSTALLATION.
- E LOCATION OF DATA OUTLETS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL DO NOT DEPICT EXACT LOCATION. CONTRACTOR SHALL INSTALL DATA OUTLETS ADJACENT TO NEW MONITOR LOCATIONS AS REQUIRED AND MUST BE APPROVED BY THE ENGINEER.
- F CONDUIT PATHWAY ROUTES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR TO FIELD VERIFY THE EXACT ROUTE.
- G ALL COMMUNICATIONS CABLING SHALL BE CONCEALED IN CONDUIT AND SLEEVES SHALL BE PROTECTED BY A MINIMUM 1" CONCRETE SURFACE. SLEEVES SHALL NOT EXCEED THE 40% MAXIMUM FILL.
- H ALL VOICE AND DATA CABLING SHALL BE INSTALLED IN CONDUIT AND SLEEVES AS INDICATED ON DRAWINGS TC12.05 AND TC12.06.
- I ADP AND SIZE LIMITATION BOXES AT CONDUIT ENDS SHALL BE INSTALLED IN ACCORDANCE WITH IEEE STANDARDS FOR BED RADIUS.
- J ANY PENETRATION THROUGH THE FLOOR SLAB SHALL BE COORDINATED WITH THE RADIANT FLOOR FLEX TUBING WITHIN THE SLAB ASSEMBLY.



LEVEL 4 - ZONE 6

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

KEY PLAN



Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SB	RA

Project Name  
**PJM TERMINAL EXPANSION**

Contract Number  
TC02.04.06

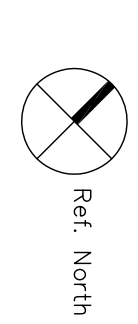
Discipline  
TELECOMMUNICATIONS

CONSTRUCTION PLAN - LEVEL 4 - ZONE 6

Scale  
As Indicated



**TC02.04.06**



©2006 Gensler



SHEET NOTES

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

2020 K Street, Northwest  
Suite 200 DC 20006  
Washington, DC 20004  
Tel: (202) 221-2200  
Fax: (202) 221-2200  
Gensler

Aron Engineers, Inc.  
61 Wilmington - West Chester  
Suite #100  
Chadds Ford, PA 19317  
Tel: (610) 459-7999  
Fax: (610) 459-7999

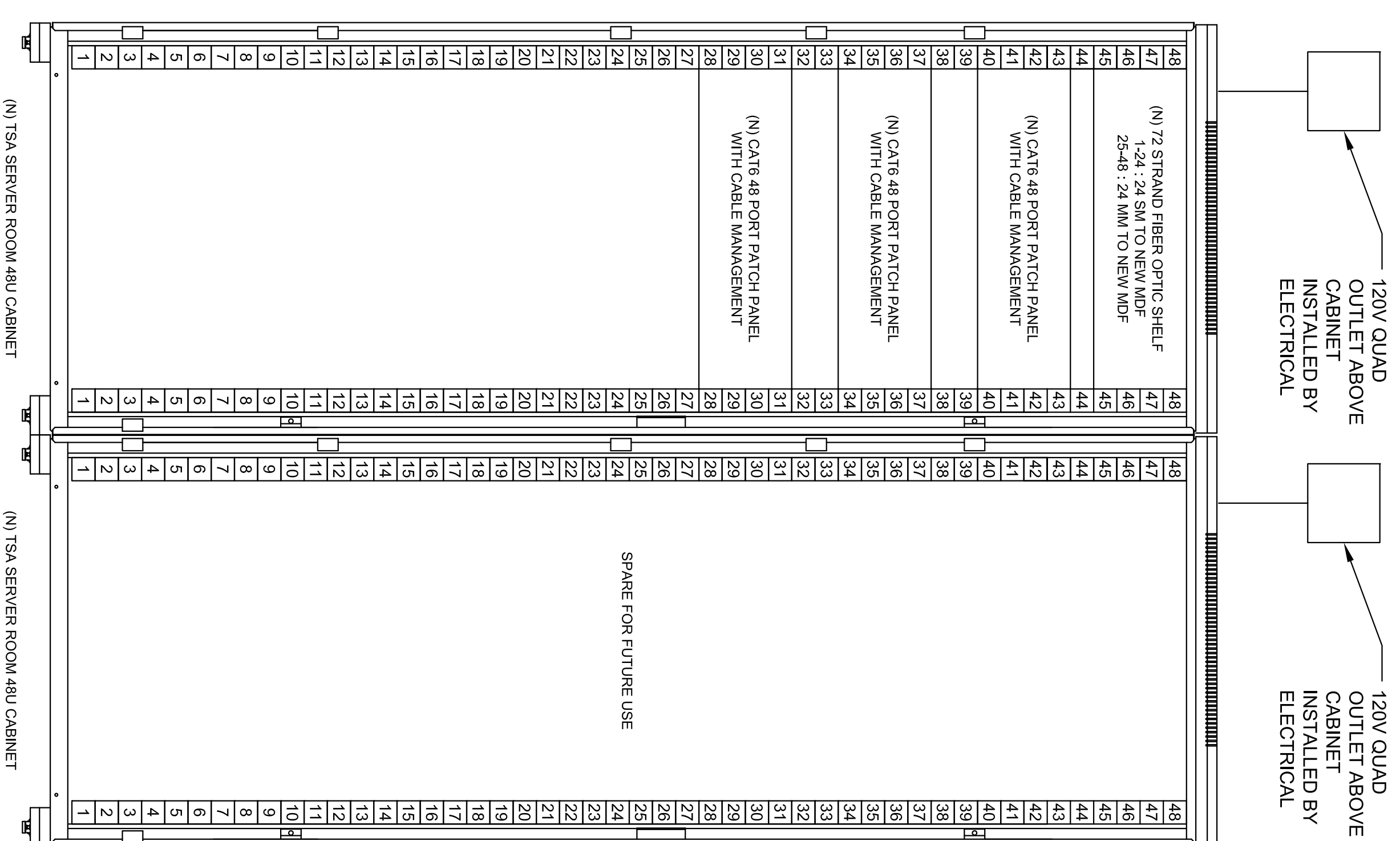


Project Name	Date & Issue Description	By	Checked
PMW TERMINAL EXPANSION	145 09/01/11 ISSUED FOR CONSTRUCTION	SB8 RAK	
Project Number			
Contract Name			
TC12.03			
Description			
TELECOMMUNICATIONS			
NEW TELECOM ROOM DETAILS - SHEET 1			
Scale			
As Indicated			

GENERAL NOTES

- A. POWER TO ALL EQUIPMENT IN TELECOMMUNICATION ROOMS PROVIDED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- B. REFER TO ELECTRICAL DRAWINGS FOR ALL GROUND BUS BAR INFORMATION.

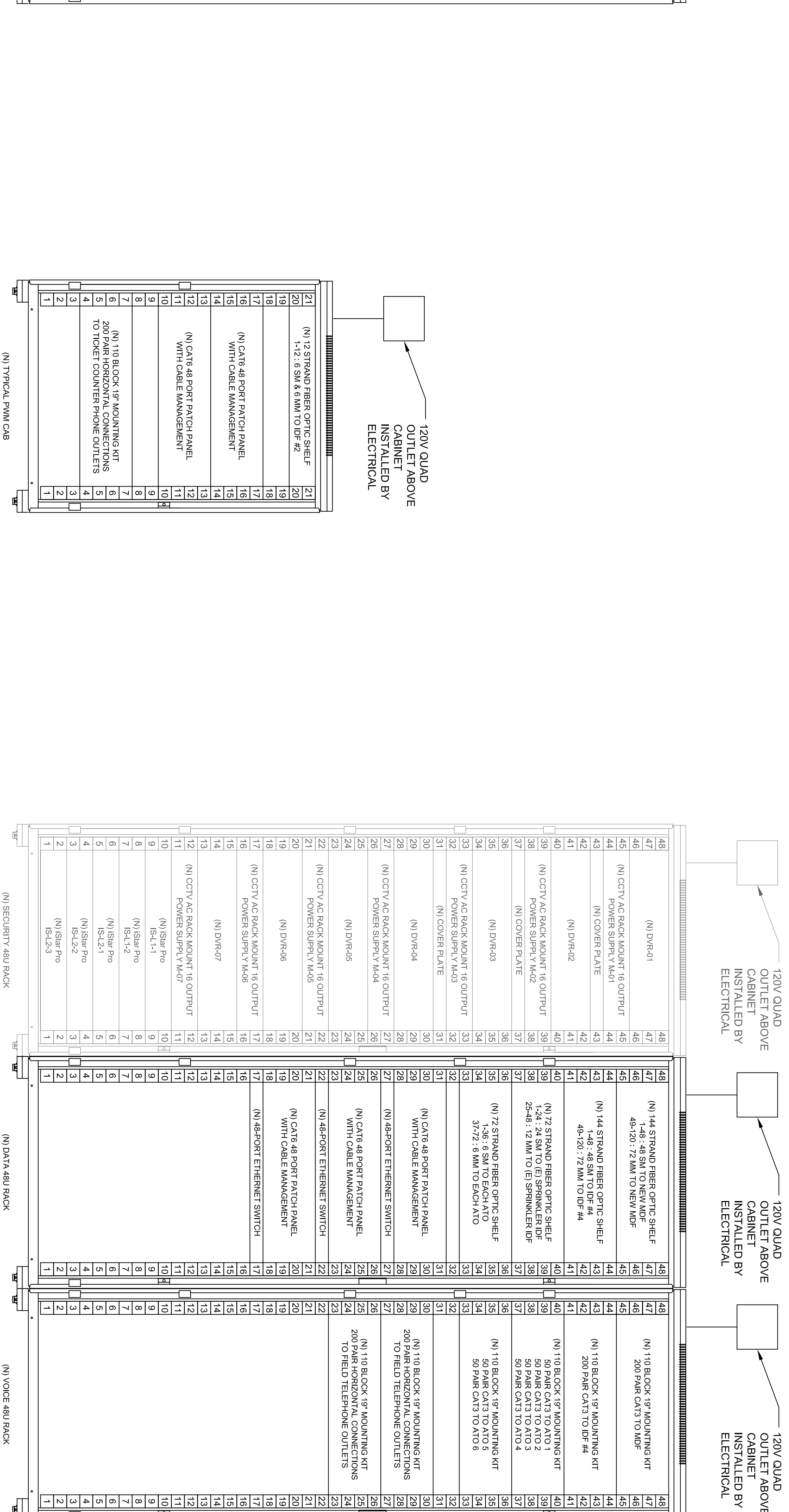
KEY PLAN



1 TSATELECOMMUNICATIONS CABINETS  
TC12.03 NTS

2 PMW TELECOMMUNICATIONS VOICE/DATA/A MINI-CABINET  
TC12.03 NTS

3 TELECOMMUNICATIONS VOICE, DATA AND SECURITY AND SURVEILLANCE RACK RACK  
TC12.03 NTS



INSTALL 3/4" X 8" VOID FREE PLYWOOD WITH 2 COATS OF FIRE RETARDANT PAINT AROUND PERIMETER OF ROOM

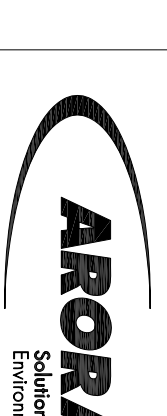
INSTALL 3/4" X 8" VOID FREE PLYWOOD WITH 2 COATS OF FIRE RETARDANT PAINT AROUND PERIMETER OF ROOM

SHEET NOTES

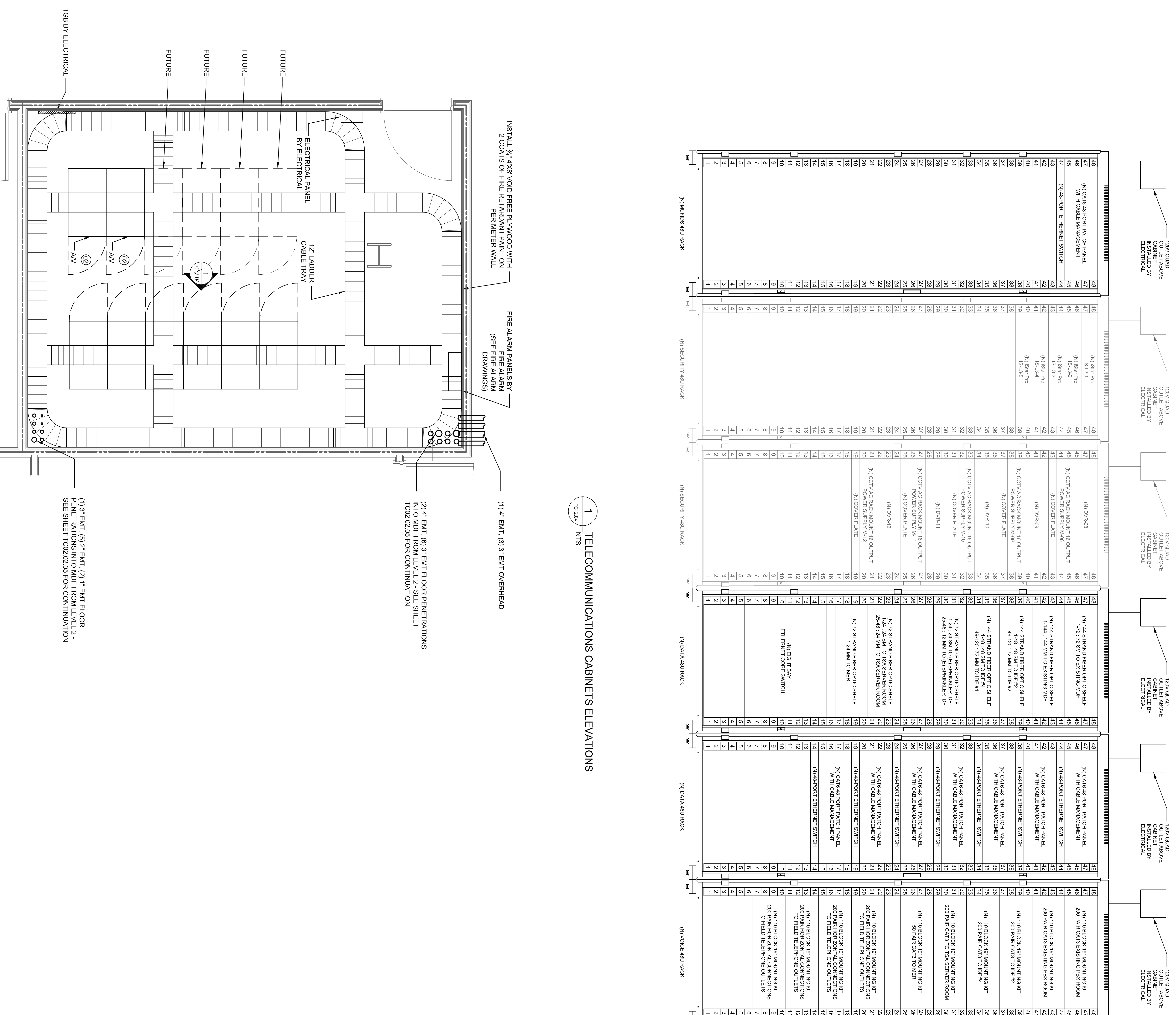
Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

2020 K Street, Northwest  
Suite 200 DC 20006  
Washington, DC 20004  
Telephone 202.872.8587  
Facsimile 202.872.8587

**Aron Engineers, Inc.**  
61 Wilmington - West Chester  
Suite #100  
Chadds Ford PA 19317  
Telephone 610.338.8800  
Fax 610.459-7959



**Gensler**



41	(N) 1010 48\"/>
42	(N) 1010 48\"/>
43	(N) 1010 48\"/>
44	(N) 1010 48\"/>
45	(N) 1010 48\"/>
46	(N) 1010 48\"/>
47	(N) 1010 48\"/>
48	(N) 1010 48\"/>
49	(N) 1010 48\"/>
50	(N) 1010 48\"/>
51	(N) 1010 48\"/>
52	(N) 1010 48\"/>
53	(N) 1010 48\"/>
54	(N) 1010 48\"/>
55	(N) 1010 48\"/>
56	(N) 1010 48\"/>
57	(N) 1010 48\"/>
58	(N) 1010 48\"/>
59	(N) 1010 48\"/>
60	(N) 1010 48\"/>
61	(N) 1010 48\"/>
62	(N) 1010 48\"/>
63	(N) 1010 48\"/>
64	(N) 1010 48\"/>
65	(N) 1010 48\"/>
66	(N) 1010 48\"/>
67	(N) 1010 48\"/>
68	(N) 1010 48\"/>
69	(N) 1010 48\"/>
70	(N) 1010 48\"/>
71	(N) 1010 48\"/>
72	(N) 1010 48\"/>
73	(N) 1010 48\"/>
74	(N) 1010 48\"/>
75	(N) 1010 48\"/>
76	(N) 1010 48\"/>
77	(N) 1010 48\"/>
78	(N) 1010 48\"/>
79	(N) 1010 48\"/>
80	(N) 1010 48\"/>
81	(N) 1010 48\"/>
82	(N) 1010 48\"/>
83	(N) 1010 48\"/>
84	(N) 1010 48\"/>
85	(N) 1010 48\"/>
86	(N) 1010 48\"/>
87	(N) 1010 48\"/>
88	(N) 1010 48\"/>
89	(N) 1010 48\"/>
90	(N) 1010 48\"/>
91	(N) 1010 48\"/>
92	(N) 1010 48\"/>
93	(N) 1010 48\"/>
94	(N) 1010 48\"/>
95	(N) 1010 48\"/>
96	(N) 1010 48\"/>
97	(N) 1010 48\"/>
98	(N) 1010 48\"/>
99	(N) 1010 48\"/>
100	(N) 1010 48\"/>

1 TELECOMMUNICATIONS CABINETS ELEVATIONS

2 TELECOMMUNICATIONS MDF ROOM

NEW TELECOM ROOM DETAILS - MDF  
SCALE: NOT TO SCALE

GENERAL NOTES

- A. POWER TO ALL EQUIPMENT IN TELECOMMUNICATION ROOMS PROVIDED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- B. REFER TO ELECTRICAL DRAWINGS FOR ALL GROUND BUS BAR INFORMATION.

KEY PLAN

Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RKA

Project Name: PMM TERMINAL EXPANSION  
 Project Number: TC12.04  
 CAD File Name: TELECOMMUNICATIONS NEW TELECOM ROOM DETAILS - SHEET 2  
 Scale: As Indicated

TC12.04  
 TELECOMMUNICATIONS  
 NEW TELECOM ROOM DETAILS - SHEET 2

© 2004 Gensler



Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

2020 K Street, Northwest  
Suite 200 DC 20006  
Washington DC 20004  
Telephone 202.721.4300  
Facsimile 202.872.8587

**Gensler**  
Aron Engineers, Inc.  
61 Wilmington - West Chester  
Suite #100  
Chadds Ford PA 19317  
Telephone 302.388.7000  
Fax (610) 459-7999



Project Name  
**PWM TERMINAL EXPANSION**

Project Number  
**TC12.05**

Contractor  
**TELECOMMUNICATIONS  
NEW TELECOM ROOM DETAILS - SHEET 3**

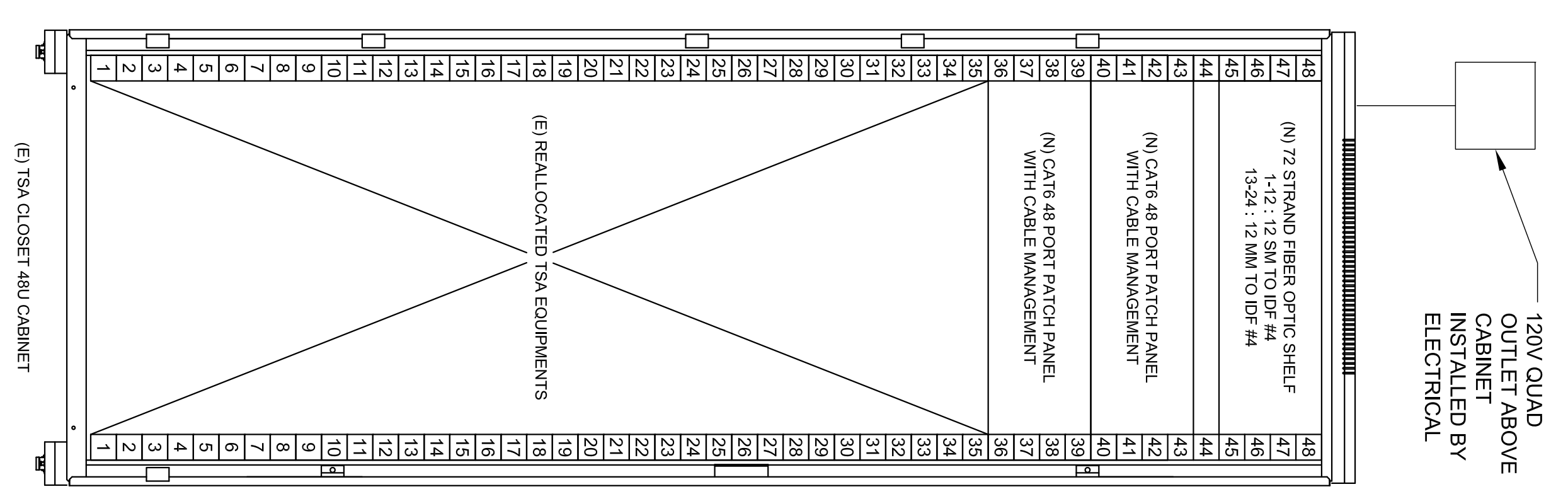
Scale  
**As Indicated**



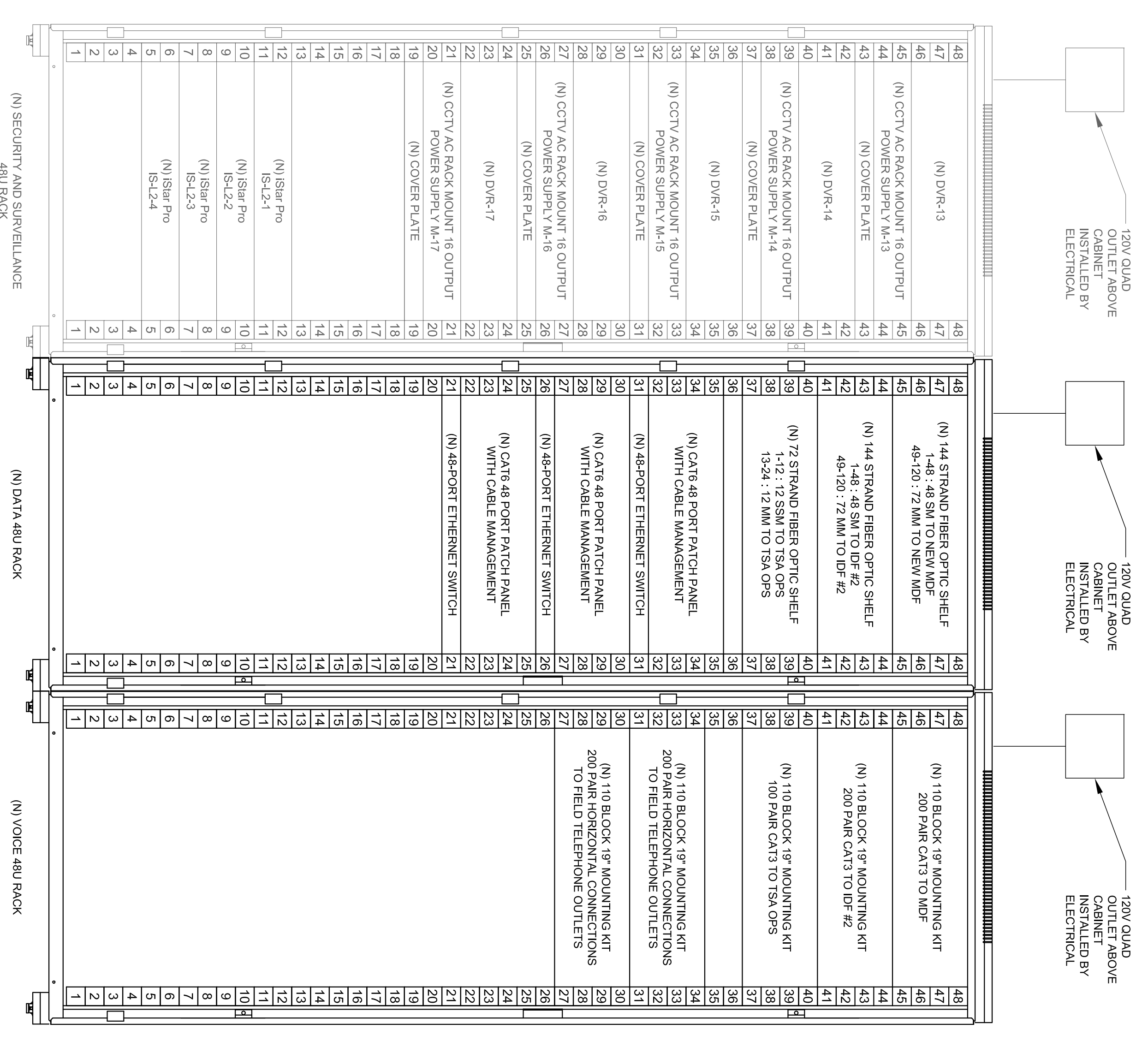
**GENERAL NOTES**

- A. POWER TO ALL EQUIPMENT IN TELECOMMUNICATION ROOMS PROVIDED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- B. REFER TO ELECTRICAL DRAWINGS FOR ALL GROUND BUS BAR INFORMATION.

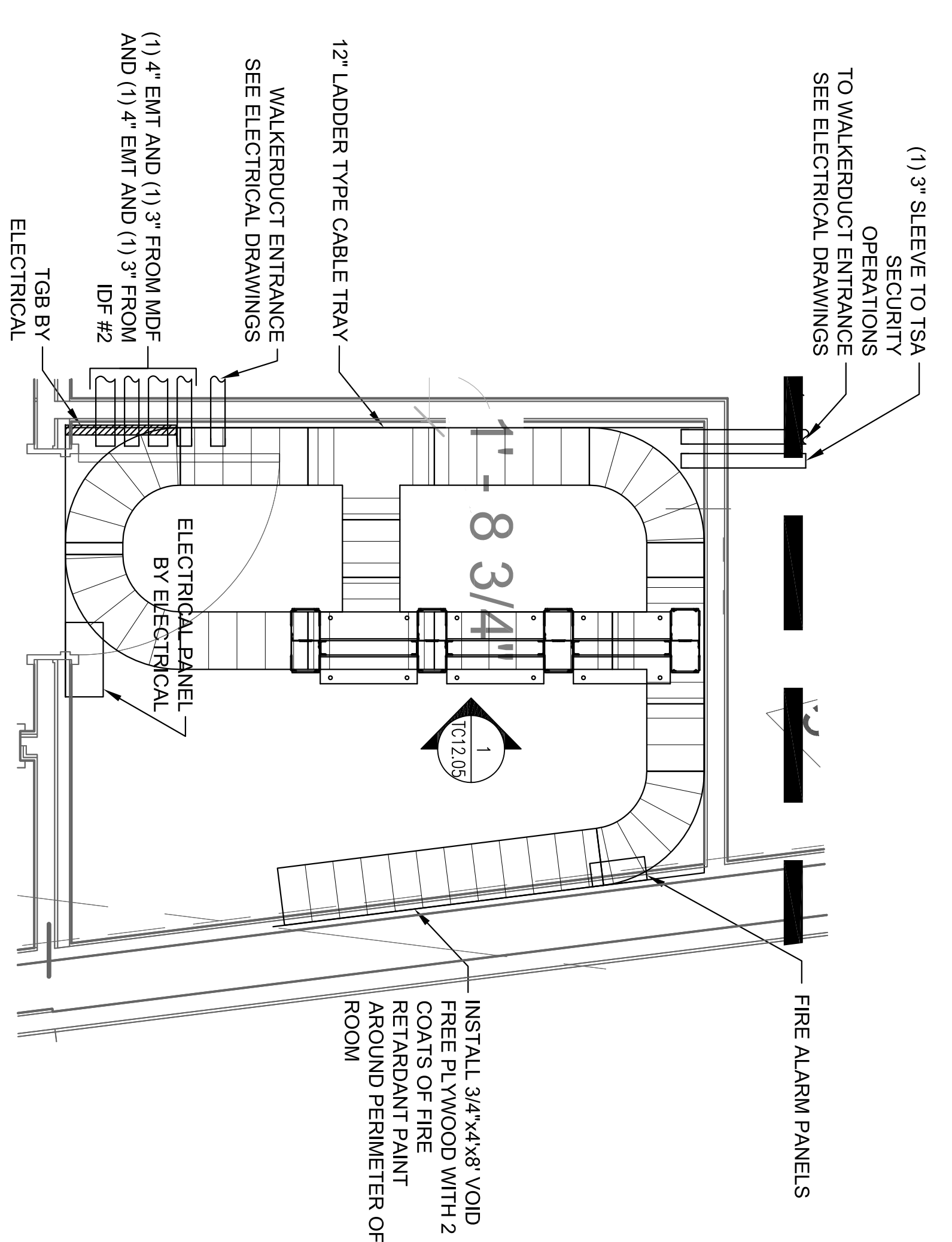
**KEY PLAN**



1 TELECOMMUNICATIONS RACK ELEVATIONS  
TC12.05 NTS



2 TELECOMMUNICATIONS RACK ELEVATIONS  
TC12.05 NTS



3 TELECOMMUNICATIONS ROOM IDF L4  
TC12.05 SCALE: 1/2\"/>

**SHEET NOTES**

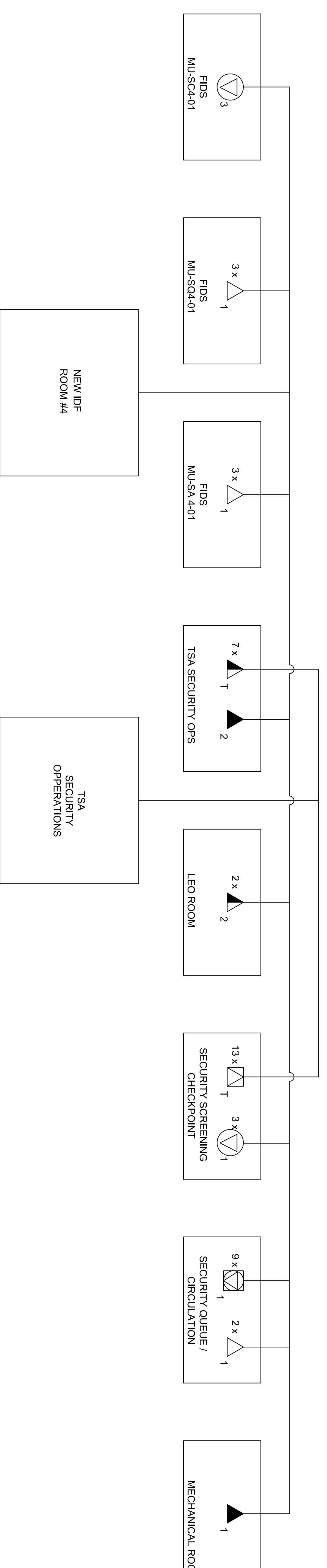
- (1) NETWORK GROUPS NOT SHOWN ON PLAN VIEW SHEETS, COORDINATE LOCATIONS WITH PM.

**Portland International Jetport**  
 1001 Westbrook Street  
 Portland, Maine 04102

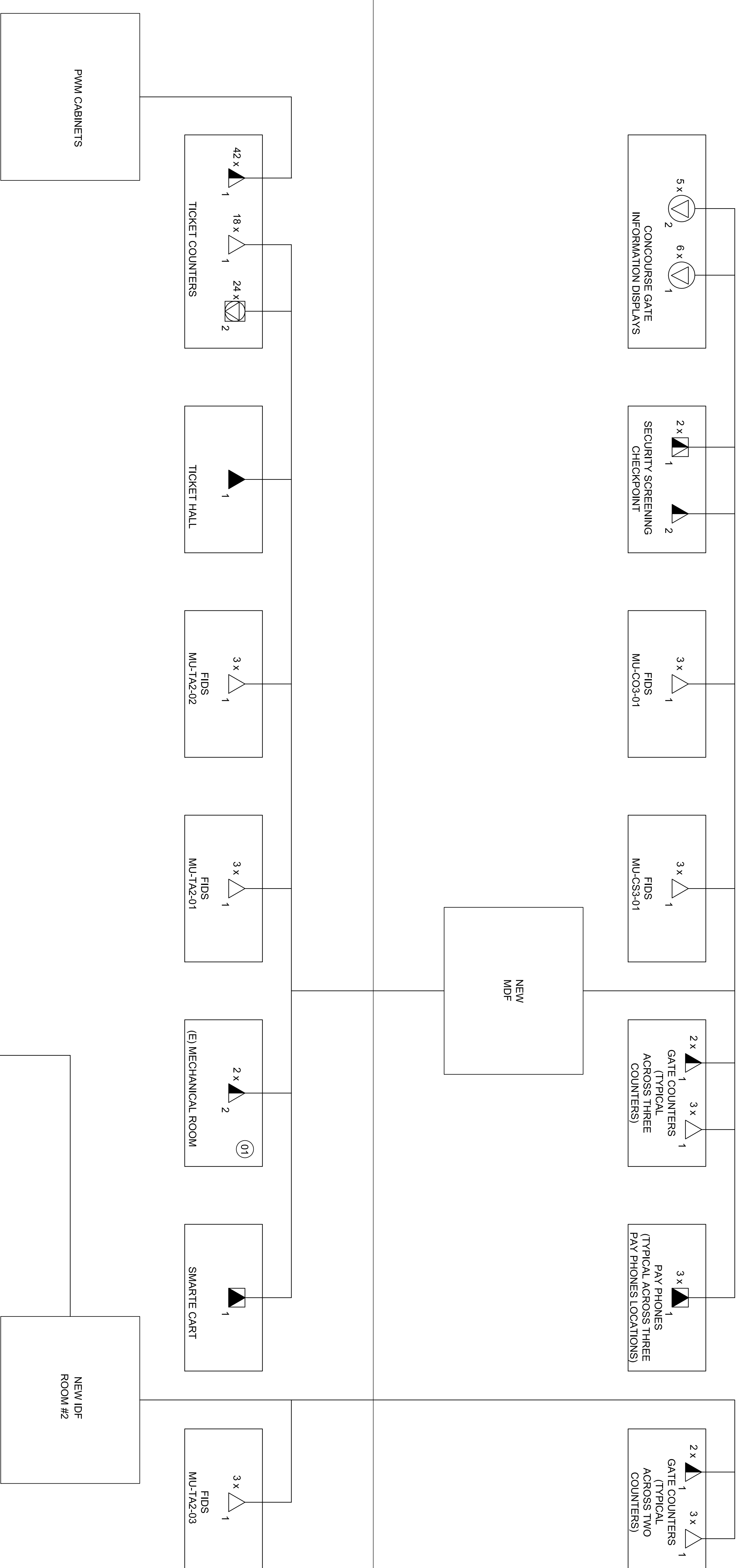
**Gensler**  
 2020 K Street, Northwest  
 Suite 200 DC 20006  
 Washington, DC 20004  
 Telephone 202.771.4000  
 Facsimile 202.872.8587

**ARORA**  
 Structural Engineers  
 61 Wilburton - West Chester  
 Suite #100  
 Charles Ford PA 19317  
 Telephone 610.459.7999  
 Fax 610.459.7990

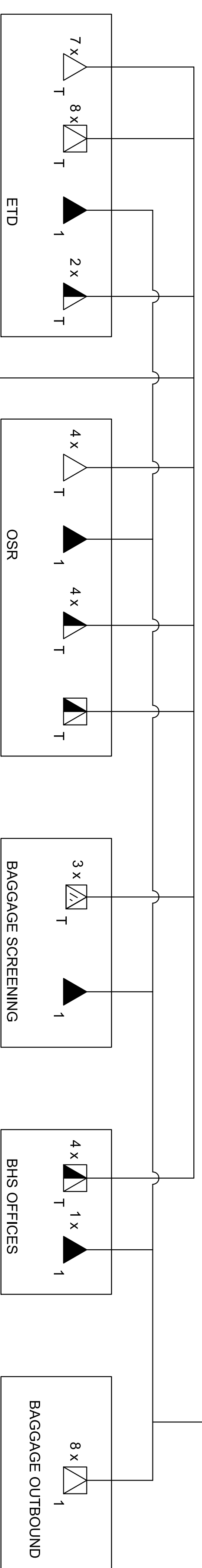
LEVEL 4



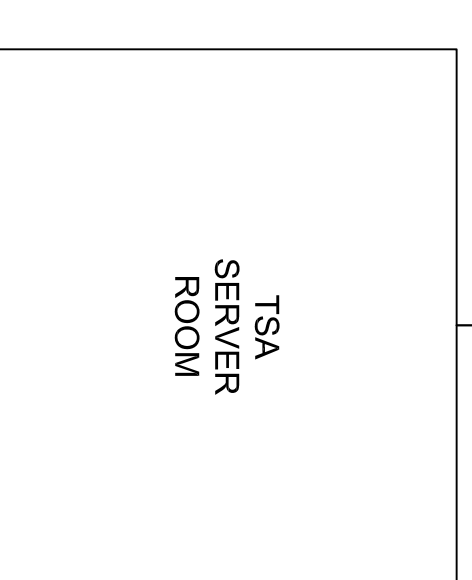
LEVEL 3



LEVEL 2



LEVEL 1



**GENERAL NOTES**

- A. CONNECTIONS ARE SHOWN FOR DIMENSIONAL PURPOSES ONLY.

**KEY PLAN**

Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RKA



Project Name: **PWM TERMINAL EXPANSION**  
 CAD File Name: **TC12.06**  
 Description: **TELECOMMUNICATIONS VOICE/DATA HORIZONTAL DIAGRAM**  
 Scale: **As Indicated**



**SHEET NOTES**

- 1) CONTRACTOR SHALL PROVIDE PATCHING AS REQUIRED WITHIN PPM TO PROVIDE THE FOLLOWING CONNECTIVITY BETWEEN NEW AND EXISTING TSA.
  - A. NEW TSA SECURITY OPS TO NEW TSA SERVER ROOM: 12 STRANDS MM, 12 STRANDS MM
  - B. NEW TSA SECURITY OPS TO EXISTING TSA CLOSET: 12 STRANDS MM, 12 STRANDS MM

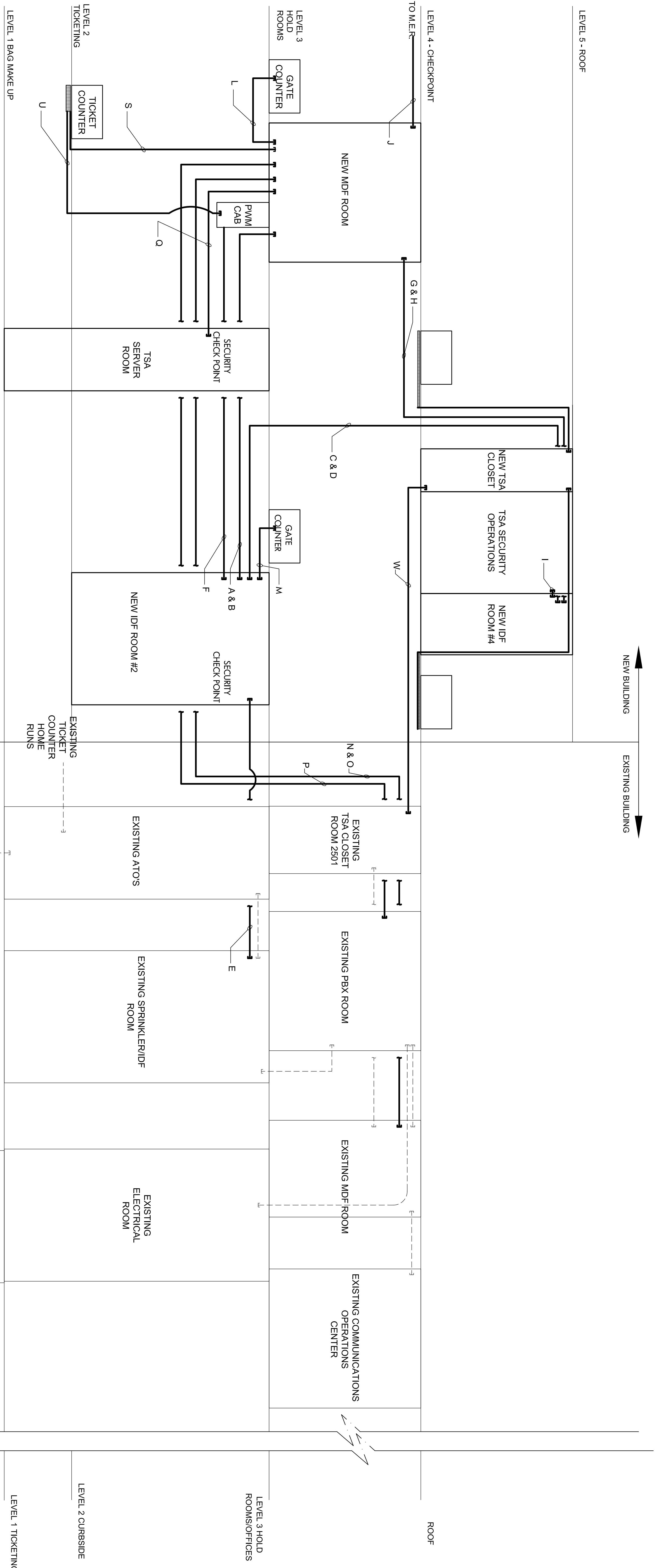
**Portland International Jetport**  
 1001 Westbrook Street  
 Portland, Maine 04102

**Gensler**  
 2020 K Street, Northwest  
 Suite 200 DC - 20006  
 Washington, DC 20242  
 Telephone 202.872.8587  
 Facsimile 202.872.8587

**Arona Engineers, Inc.**  
 61 Wilmington - West Chester  
 Suite #100  
 Charles Ford, PA 19317  
 Telephone 610.686.1000  
 F: (610) 459-7990

**GENERAL NOTES**

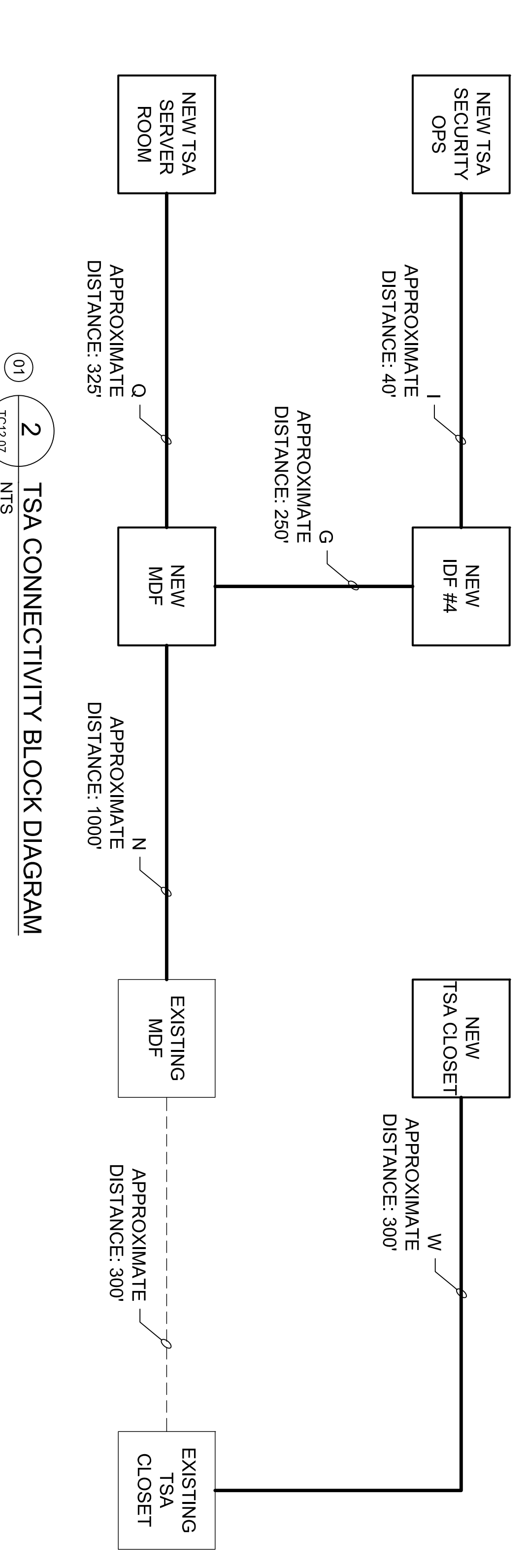
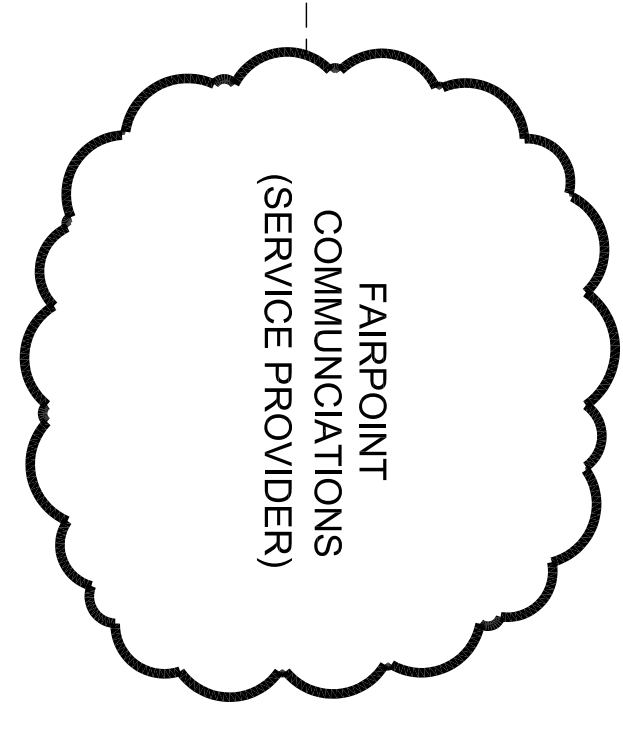
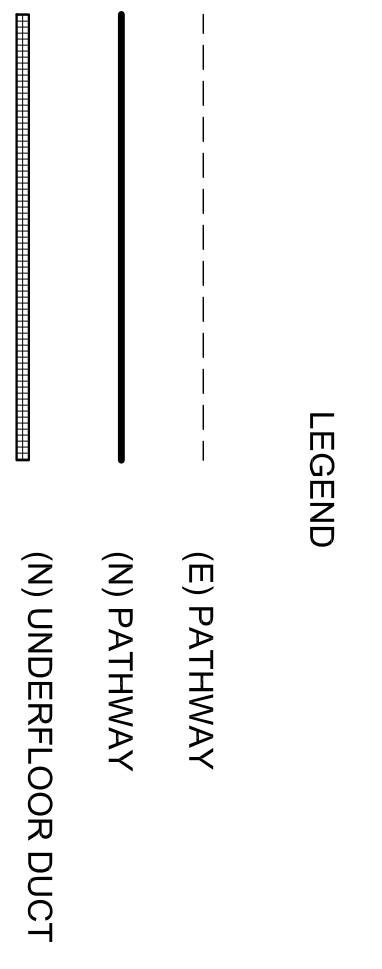
- A. CONNECTIONS ARE SHOWN FOR DIAGNOSTIC PURPOSES ONLY.
- B. ALL INDICATED CABLE LENGTHS TO BE VERIFIED AND FINALIZED IN FIELD WITH EXISTING CONDITIONS.



**BACKBONE CONDUIT SCHEDULE**

CONDUIT	SIZE	TYPE	CABLE	FROM	TO	ESTIMATED FILL
A	4"	EMT	48 SM (1" ID) / 72 MM (1.5" ID)	IDF #2	MDF	35%
B	3"	EMT	200 PAIR CAT3 EMPTY SPARE	IDF #2	MDF	0%
C	4"	EMT	48 SM (1" ID) / 72 MM (1.5" ID)	IDF #2	IDF #4	35%
D	3"	EMT	200 PAIR CAT3 EMPTY SPARE	IDF #2	IDF #4	0%
E	3"	EMT	24 SM & 24 MM (1" ID)	IDF #2	(E) SPRINKLER / IDF	21%
F	4"	EMT	SIX-6 SM & SIX-6 MM (1.25" ID) SIX-50 PAIR CAT3	IDF #2	PWM CAB IN ATO	24%
G	4"	EMT	48 SM (1" ID) / 72 MM (1.5" ID)	IDF #4	MDF	35%
H	3"	EMT	200 PAIR CAT3 EMPTY SPARE	IDF #4	MDF	0%
I	3"	EMT	12 SM & 12 MM (1" ID) 100 PAIR CAT3	IDF #4	TSA SECURITY OPS	27%
J	3"	EMT	24 MM (1" ID) 50 PAIR CAT3	MDF	MER	24%
L	3"	EMT	MULTIPLE CAT6 CABLES	MDF	GATE COUNTERS	38%
M	3"	EMT	MULTIPLE CAT6 CABLES	IDF #2	GATE COUNTERS	38%
N	4"	EMT	72 SM (1.25" ID) / 144 MM (1.5" ID)	MDF	(E) MDF	0%
O	3"	EMT	EMPTY SPARE	MDF	(E) MDF	25%
P	3"	EMT	400 PAIR CAT3	MDF	(E) FBX	34%
Q	3"	EMT	24 SM & 24 MM (1" ID) 200 PAIR CAT3	MDF	TSA SERVER ROOM	0%
S	3"	EMT	EMPTY SPARE	MDF	TICKET COUNTERS	0%
U	1 1/2"	EMT	MULTIPLE CAT6 CABLES 12 SM / 12 MM	PWM CAB	TICKET COUNTERS	29%

1 TELECOMMUNICATIONS VOICE/DATA CONDUIT RISER DIAGRAM



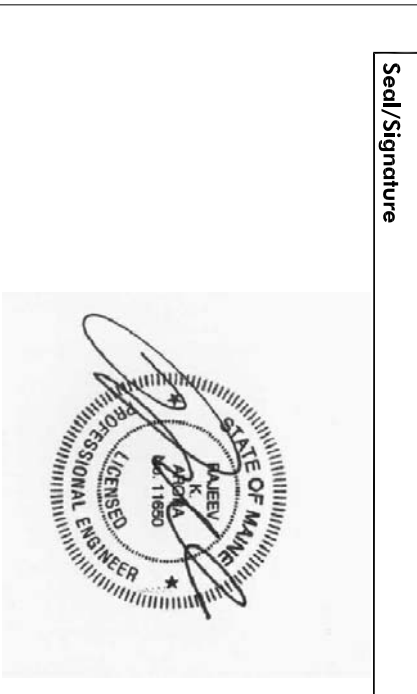
2 TSA CONNECTIVITY BLOCK DIAGRAM

**DATAVOICE CONDUIT RISER DIAGRAM**

SCALE: NOT TO SCALE

**KEY PLAN**

**TC12.07**  
 3/2004 Gender



Project Name: **PWM TERMINAL EXPANSION**  
 Project Number: **TC12.07**  
 Designer: **TELECOMMUNICATIONS VOICE/DATA CONDUIT RISER DIAGRAM**  
 As Indicated

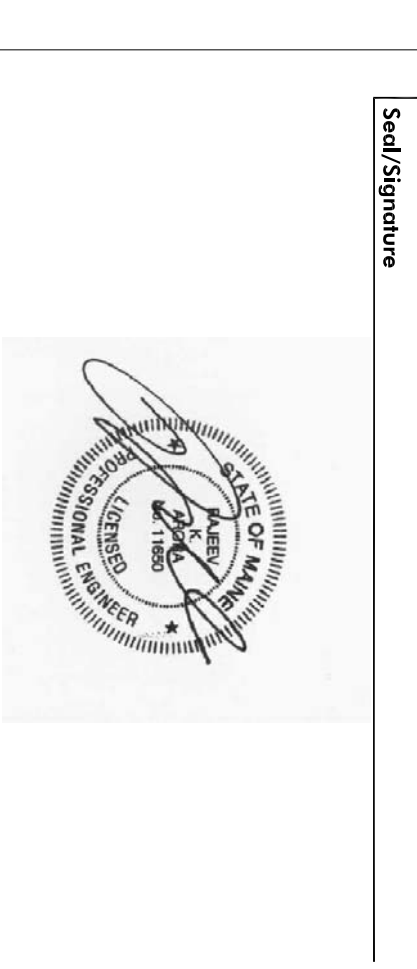
Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

2020 K Street, Northwest  
Suite 200 DC 20006  
Washington, DC 20242  
Gensler  
Telephone 202.872.8587  
Facsimile 202.872.8587

Arona Engineers, Inc.  
61 Wilmington - West Chester  
Suite #100  
Chadds Ford, PA 19317  
Telephone 302.388.8000  
Facsimile (610) 459-7959

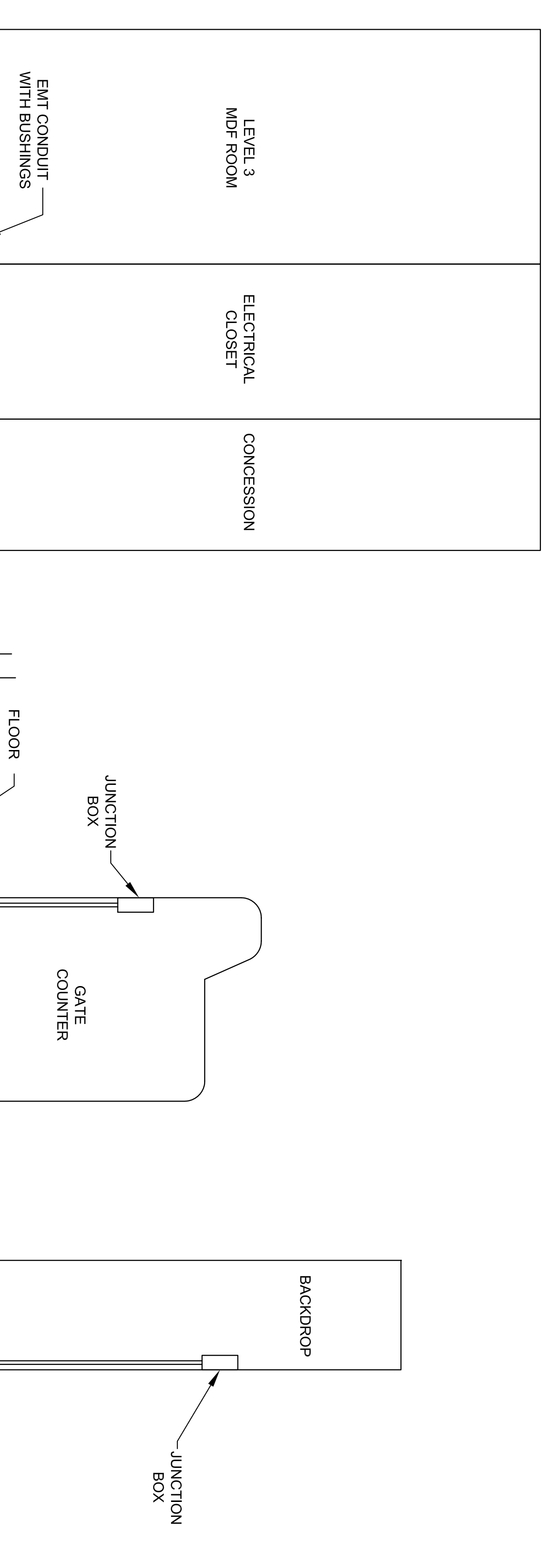


Issue	Date & Issue Description	By	Checked
145	09/01/11 ISSUED FOR CONSTRUCTION	SB8	RA4



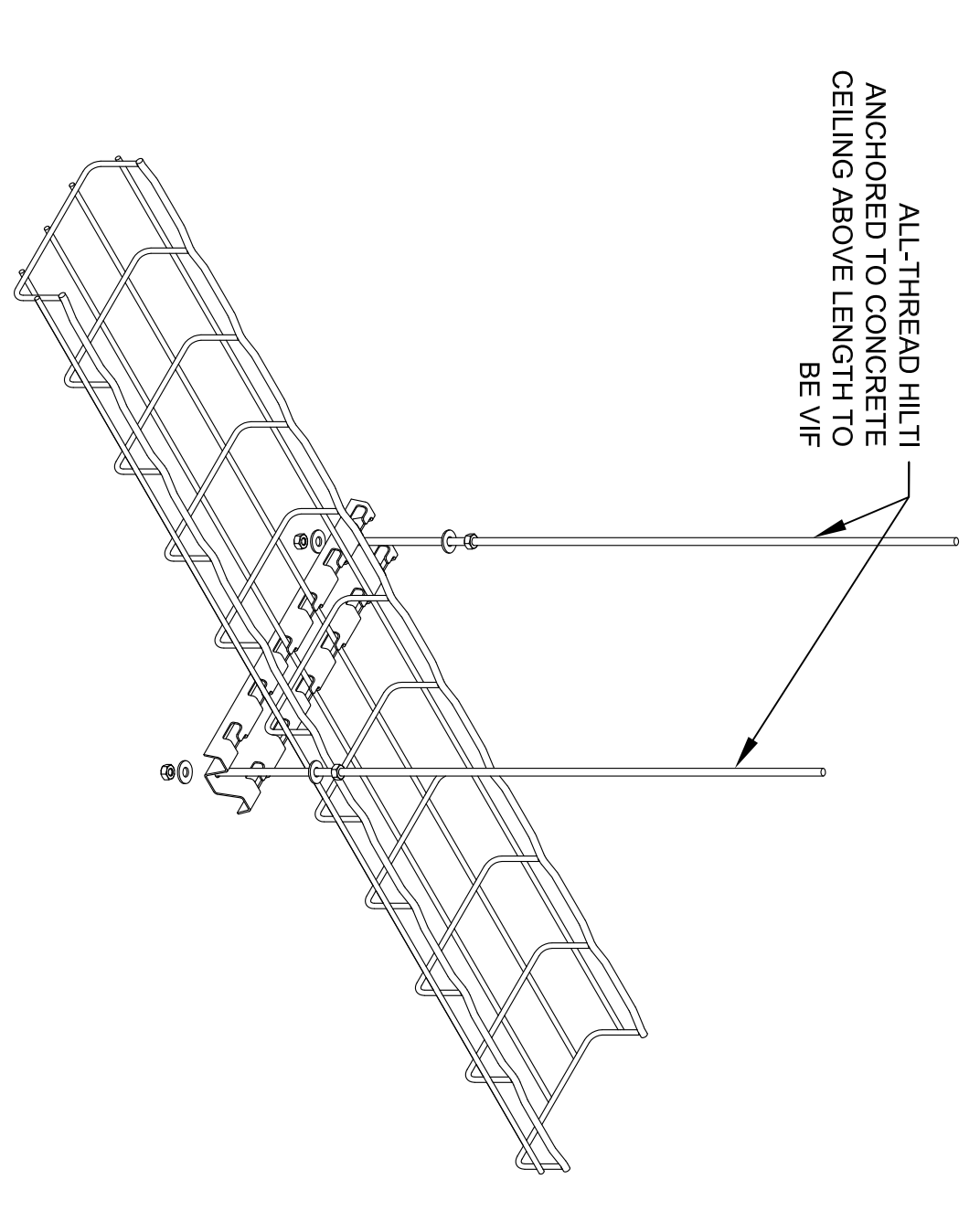
Project Name	PMW TERMINAL EXPANSION
Contract Number	
CDM No. Name	
TC12.08	
Description	TELECOMMUNICATIONS INSTALLATION DETAILS
Scale	As Indicated

TC12.08

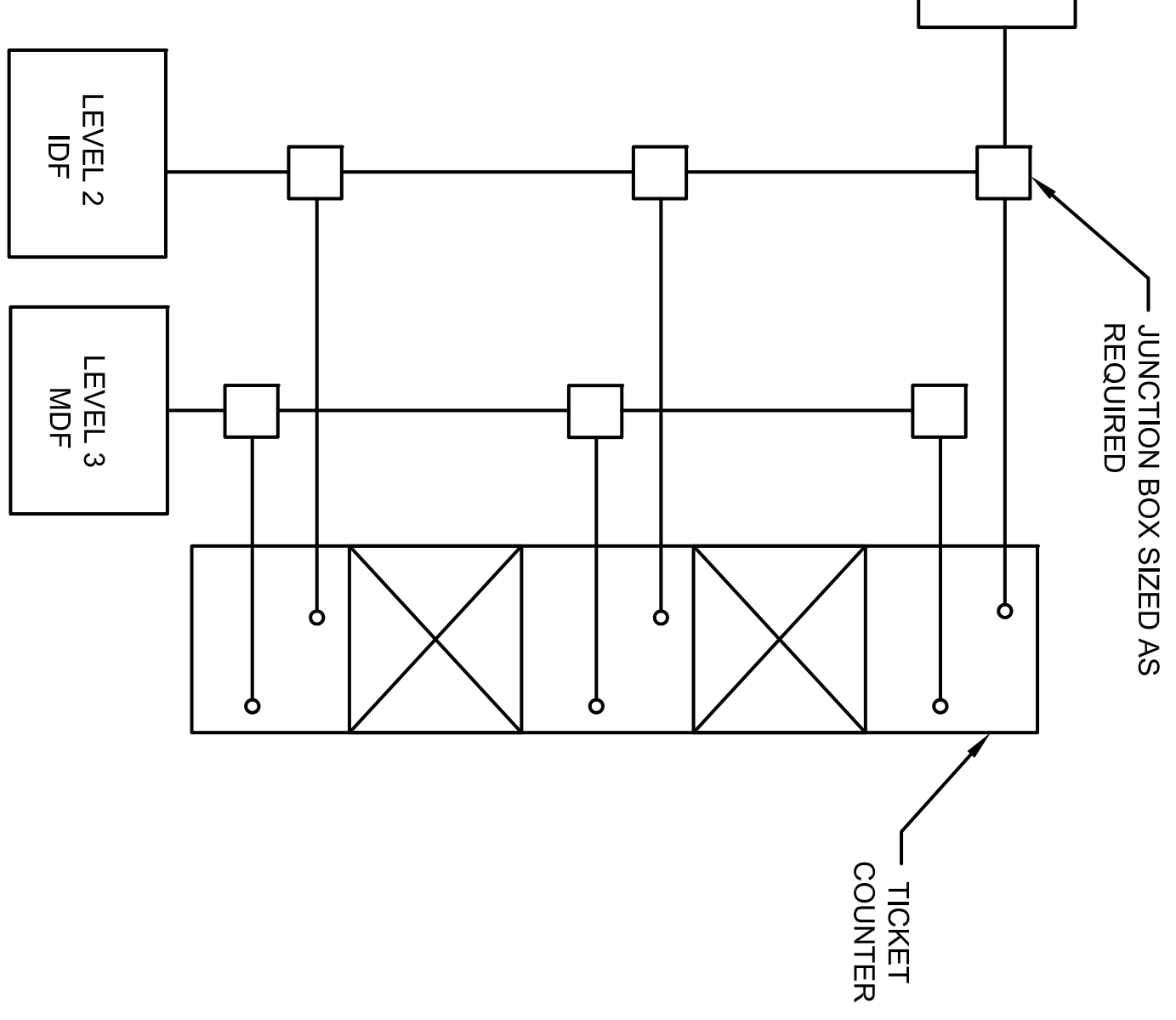


7 GATE COUNTER CONDUIT RUN SECTION - LEVEL 3  
TC12.08 N.T.S.

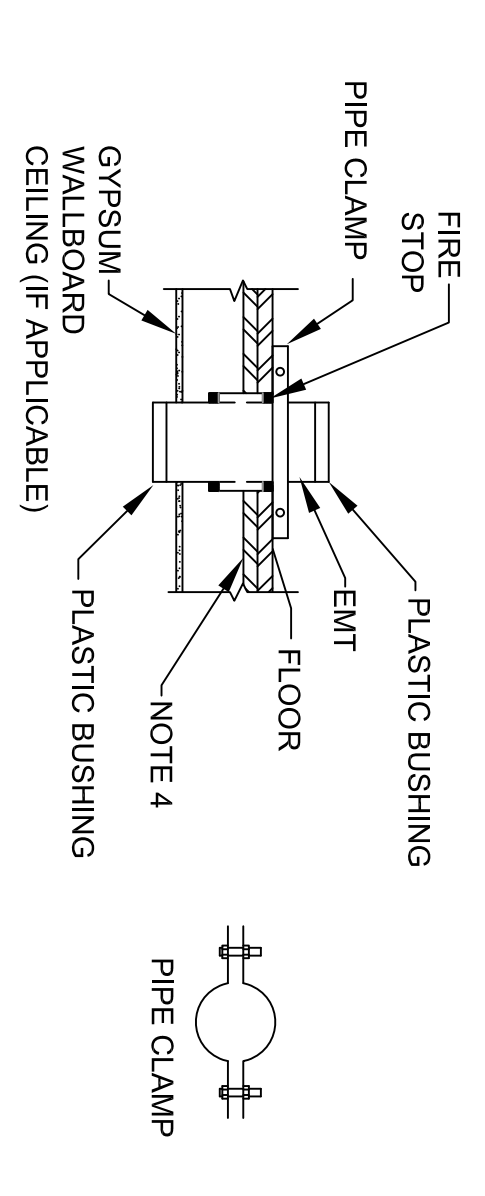
REFER TO PLAN VIEW DRAWINGS FOR PULL AND JUNCTION BOX SIZES AS WELL AS CONDUIT SIZES.



4 WIRE MESH CABLE TRAY - CEILING ANCHOR  
TC12.08 N.T.S.

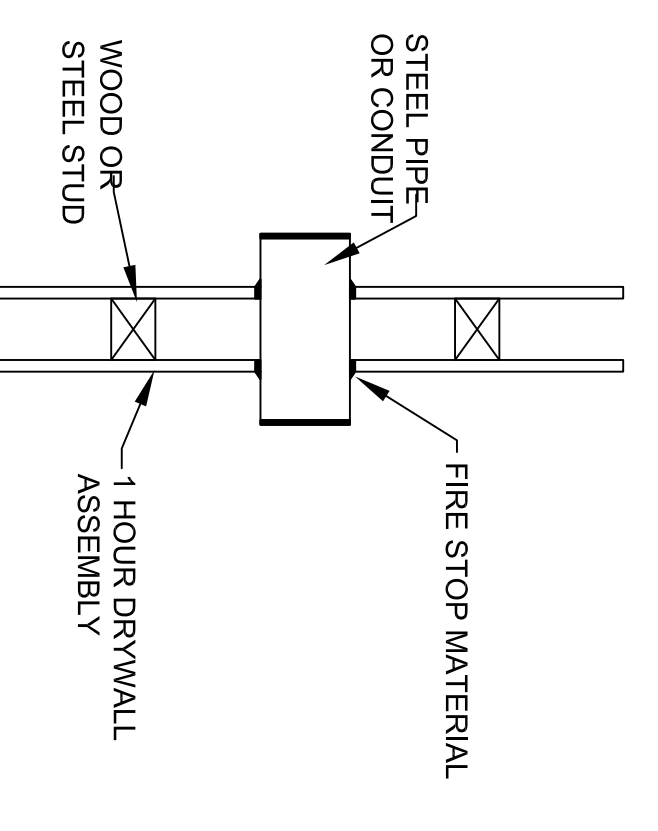


1 TICKET COUNTER CONDUIT SCHEMATIC DIAGRAM  
TC12.08 N.T.S.

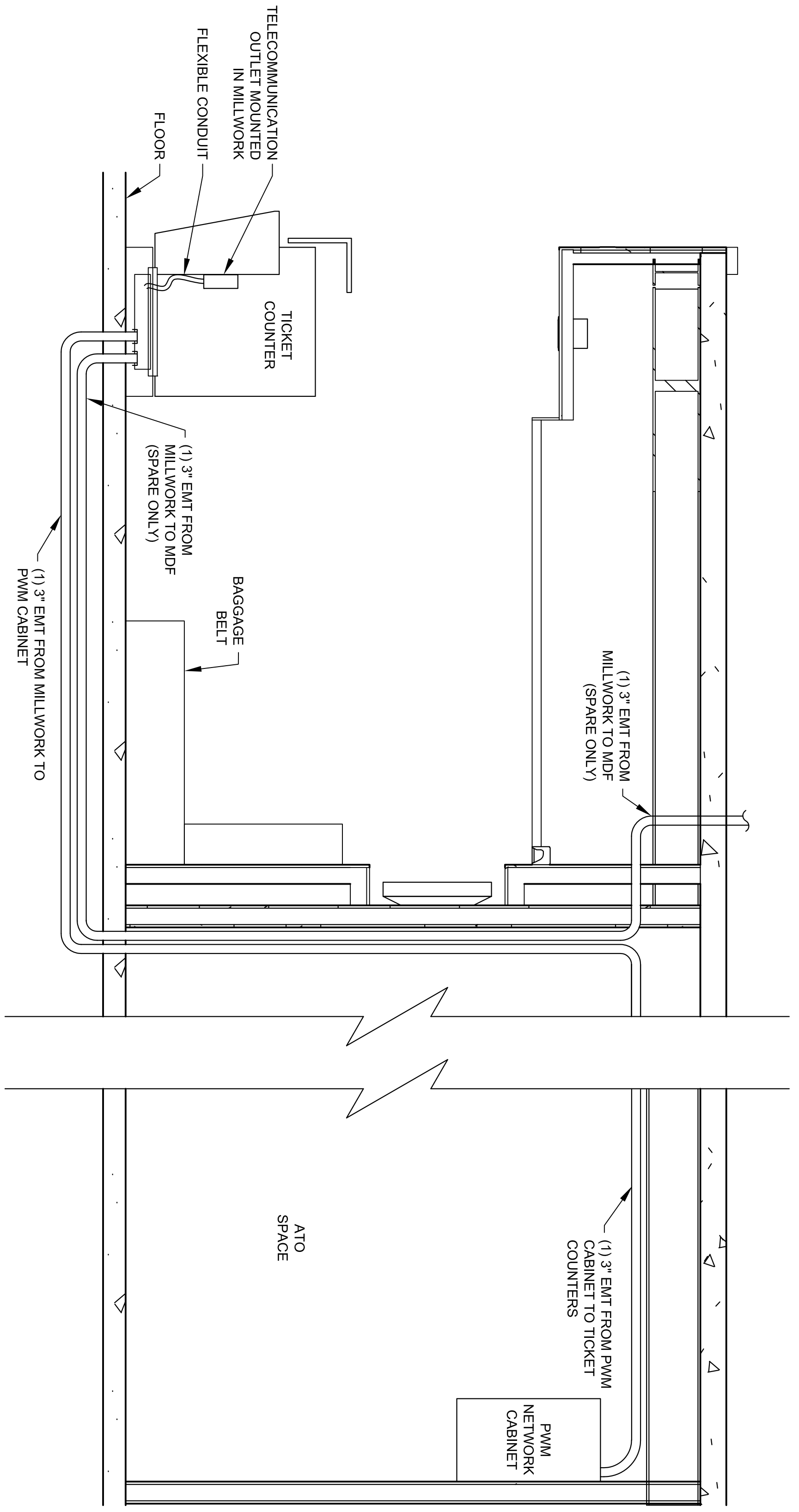


5 FIRE STOP - CONDUIT THROUGH FLOOR  
TC12.08 N.T.S.

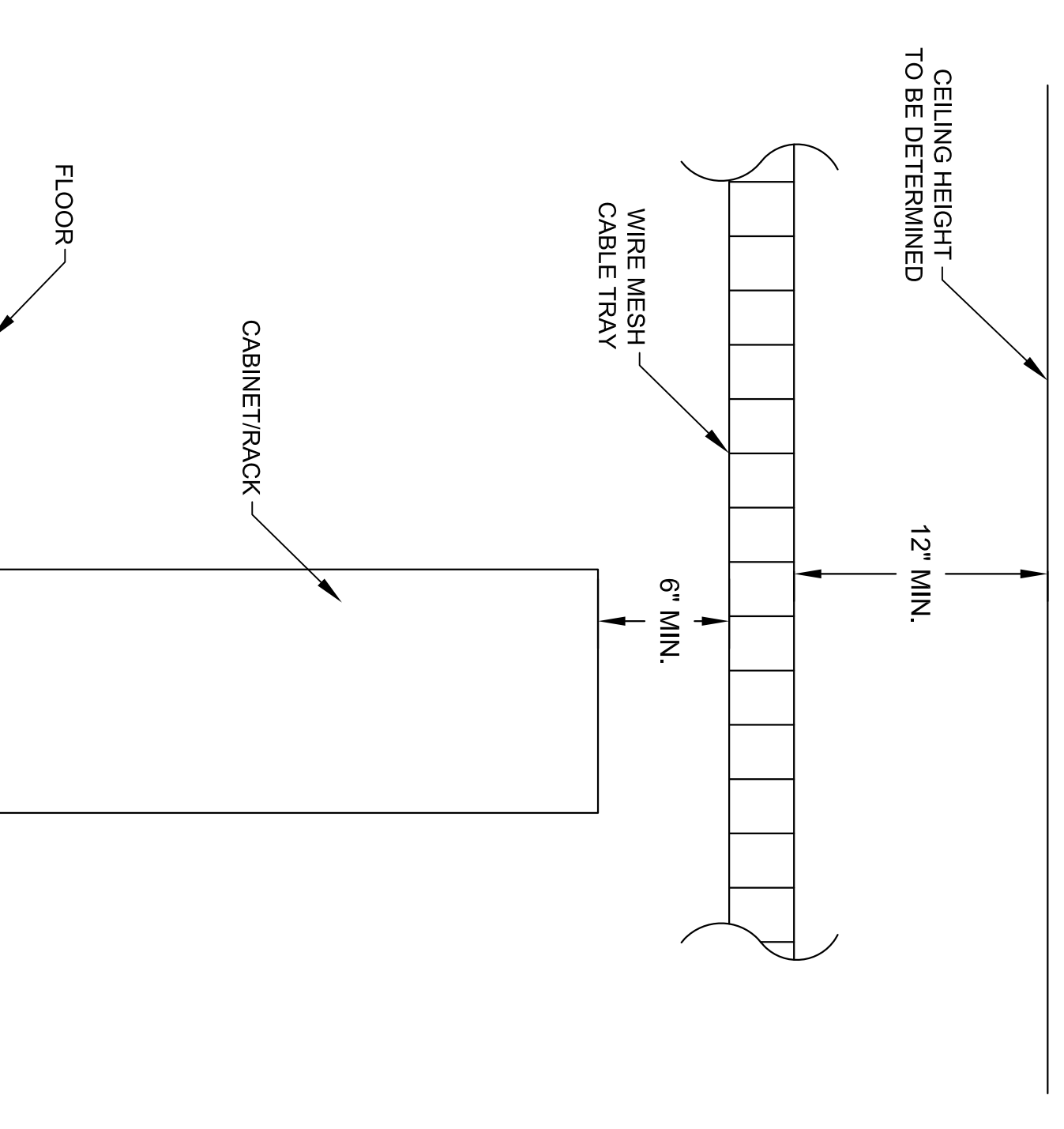
- NOTES:
1. CLEAN CORE DRILL, ONE SIZE LARGER THAN SLEEVE SIZE.
  2. PACK VOID BETWEEN SLEEVE AND WOOD FLOOR W/NO-SHRINK, WATER TIGHT, FIRE-RATED GROUT.
  3. EXTEND SLEEVE 4" ABOVE AND BELOW FLOOR AND SUPPORT WITH PIPE CLAMP ON THE TOP, OR OTHER APPROVED MEANS.
  4. ALL FLOORS MIN. 2 HOUR FIRESTOP-RATING.



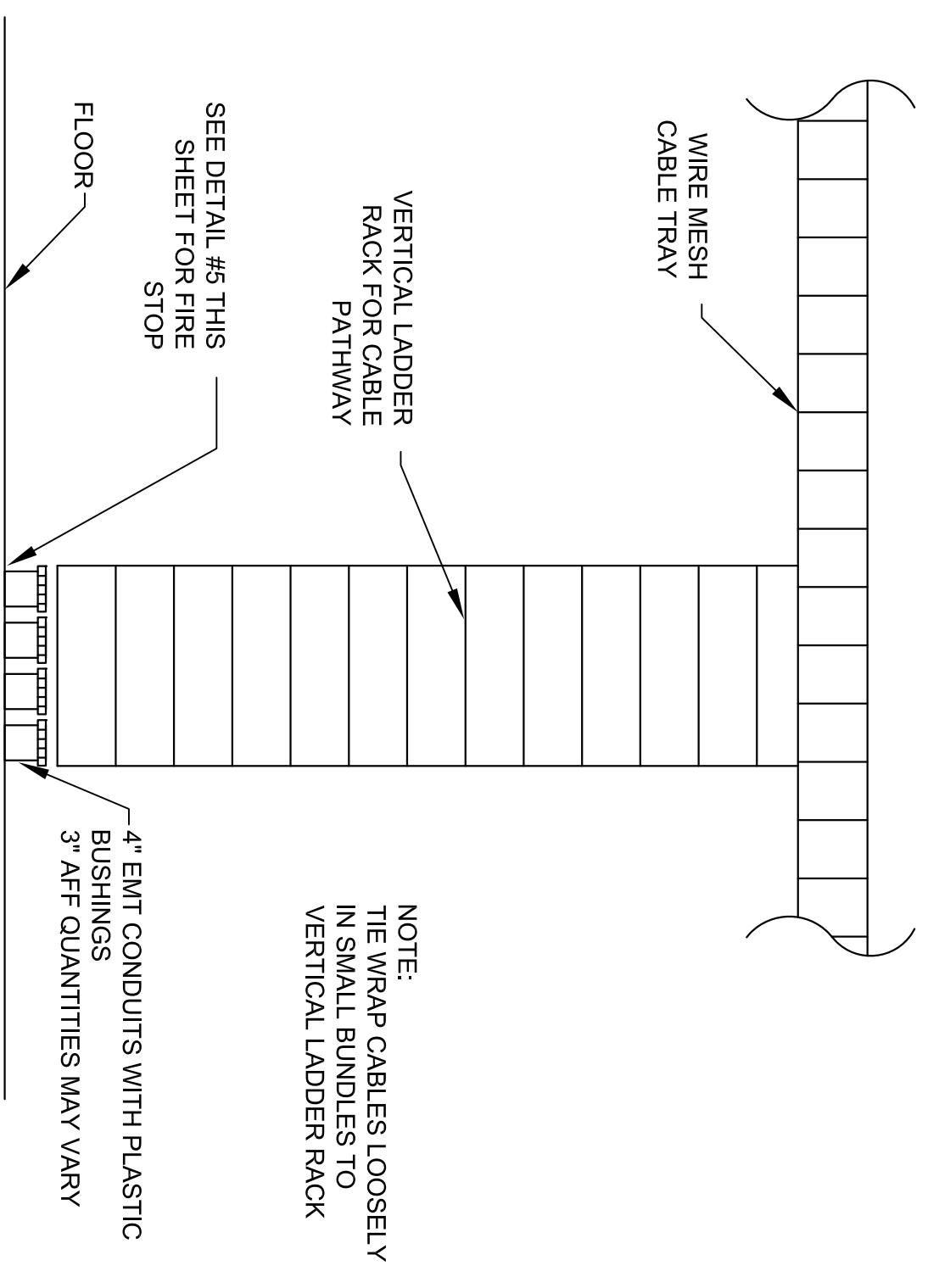
6 FIRE STOP - CONDUIT THROUGH GYPSUM WALL  
TC12.08 N.T.S.



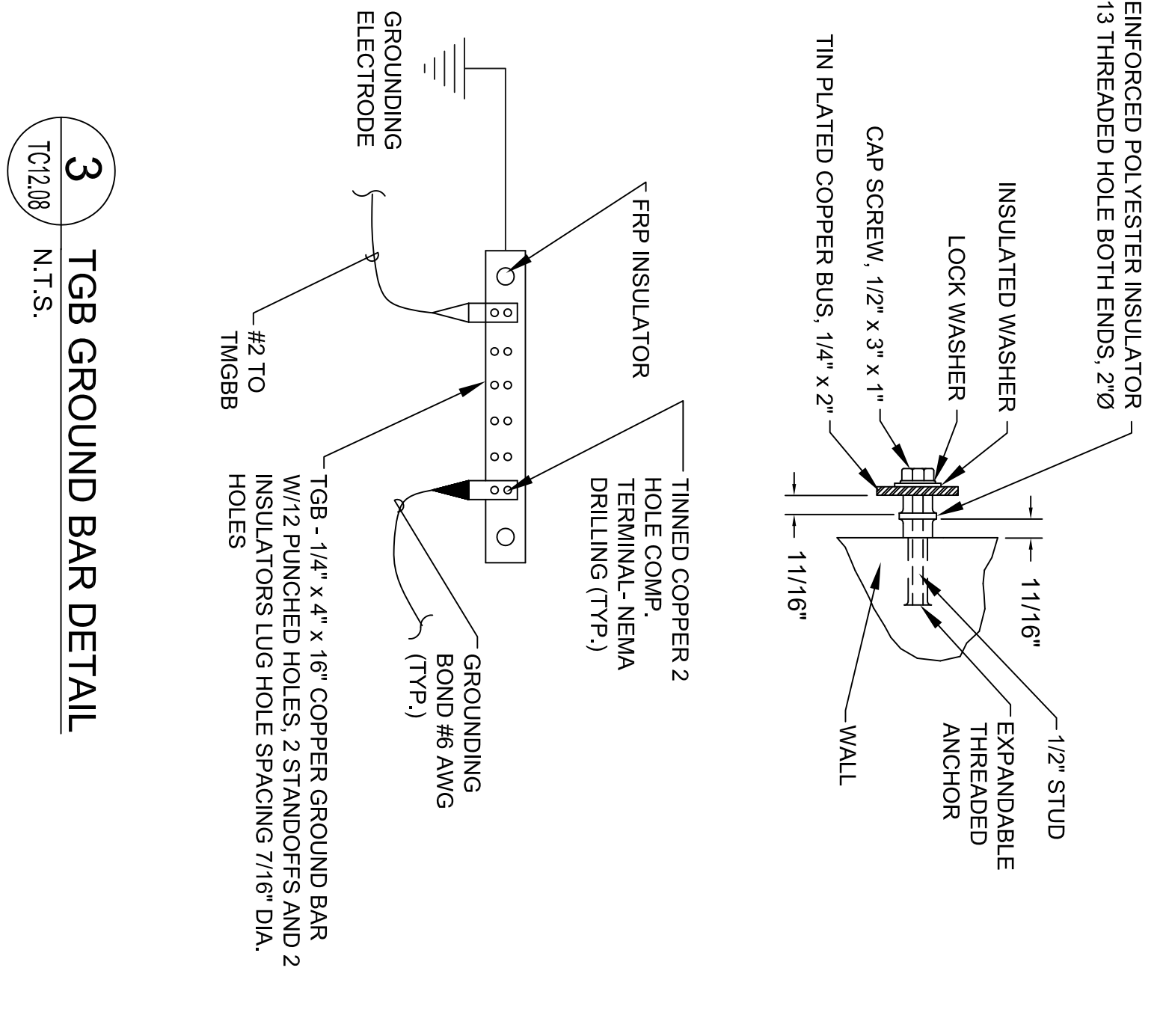
8 TICKET COUNTER CONDUIT RUN SECTION - LEVEL 2  
TC12.08 N.T.S.



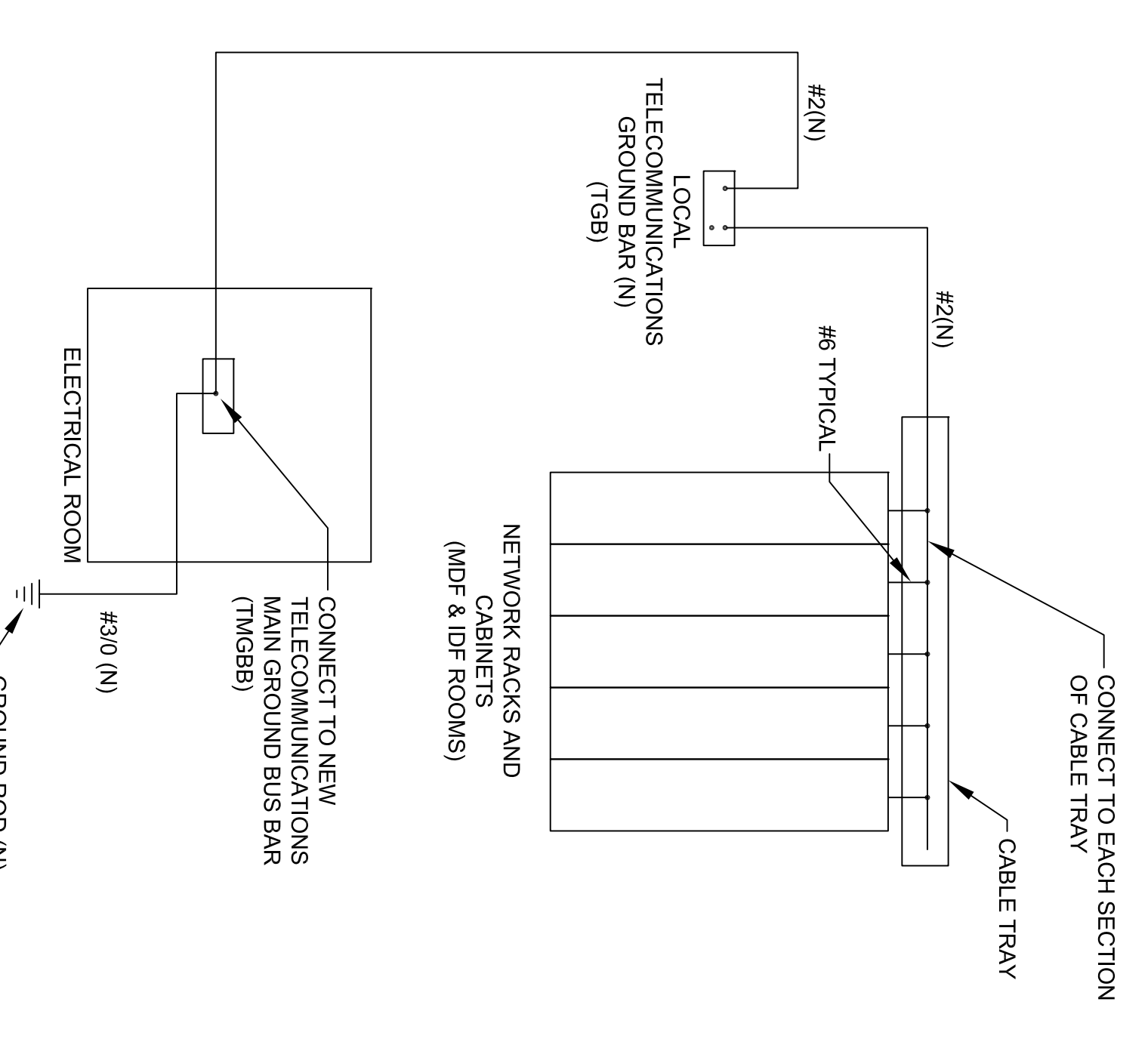
9 NEW MDF/IDF ROOM HEIGHT CLEARANCES  
TC12.08 N.T.S.



10 MDF/IDF CONDUIT FLOOR ENTRANCE PATHWAY  
TC12.08 N.T.S.



3 TGB GROUND BAR DETAIL  
TC12.08 N.T.S.



2 MDF/IDF ROOM GROUNDING  
TC12.08 N.T.S.



SHEET NOTES

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

**Gensler**

2020 K Street, Northwest  
Suite 200 DC - 20006  
Washington, DC 20242  
Telephone 202.872.8587  
Facsimile 202.872.8587

**ARORA**  
Architectural  
Engineers, Inc.

61 Wilmington - West Chester  
Suite #100  
Chadds Ford, PA 19317  
Telephone 302.388.4400  
F. (610) 459-7959

Issue	Date & Issue Description	By	Check
145	09/01/11 ISSUED FOR CONSTRUCTION	SJB	RAK

Project Name  
**PJM TERMINAL EXPANSION**

Contract Number  
**TC12.09**

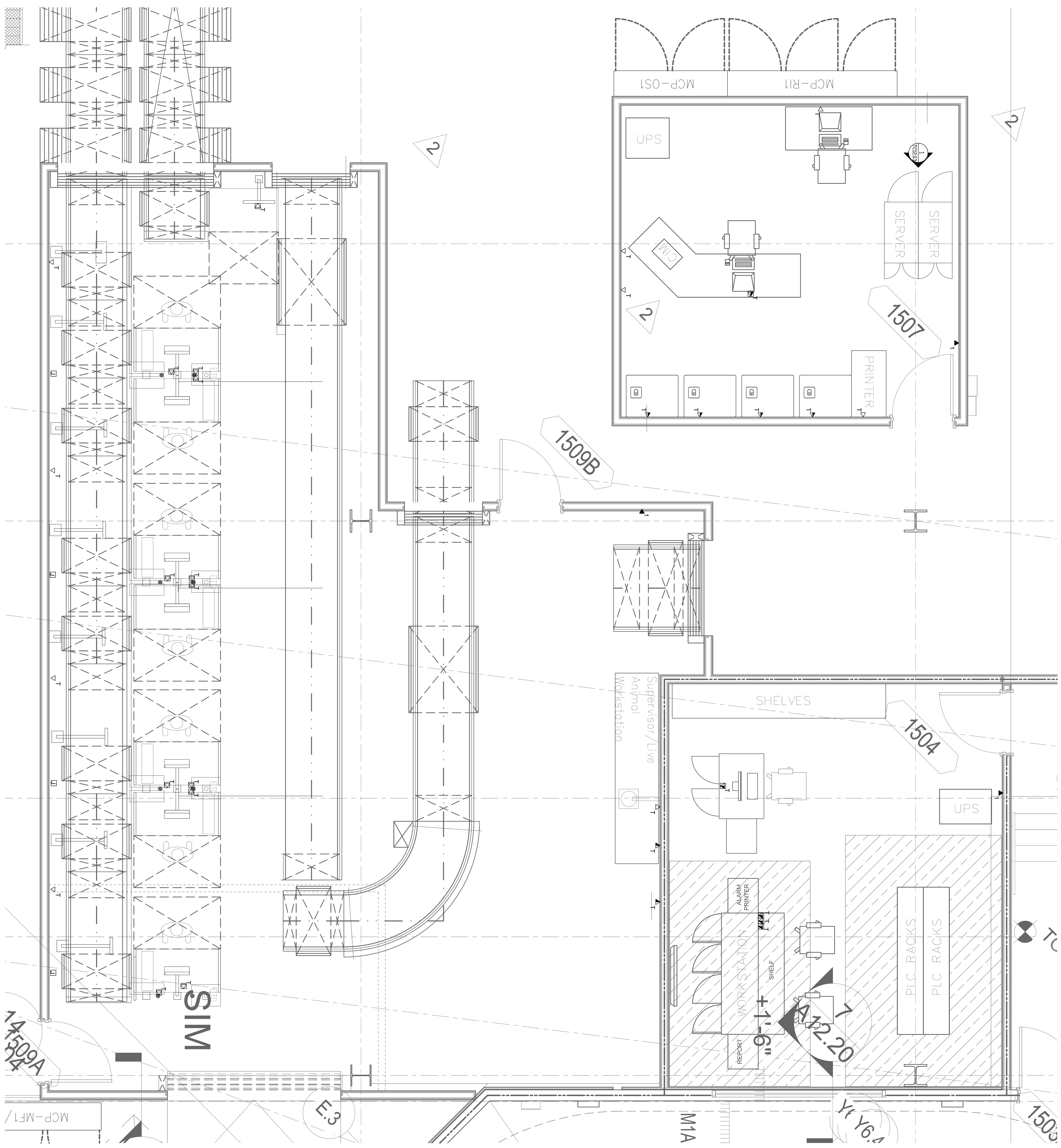
Location  
**TELECOMMUNICATIONS  
ETD AND OSR ROOM ENLARGED PLAN**

Scale  
**As Indicated**



**TC12.09**

©2006 Gensler



GENERAL NOTES

- A THE CONTRACTOR SHALL COORDINATE WITH THE DESIGNER ALL TELECOMMUNICATIONS WORK BEING PERFORMED IN TSA OPERATED SPACES.
- B ALL TELECOMMUNICATION RACK LOCATIONS SHALL BE COORDINATED AND APPROVED BY THE TSA PRIOR TO FINAL INSTALLATION.
- C ALL HORIZONTAL COPPER AND BACKBONE FIBER OPTIC TSA CABLING SHALL TERMINATE AT A DESIGNATED TSA PATCH PANEL IN A TSA RACK PROVIDED BY THIS PROJECT.
- D ALL HORIZONTAL COPPER CABLING SHALL BE CAT6 AND SHALL BE AS SPECIFIED IN THE SPECIFICATIONS. ALL SHALL BE AS SPECIFIED IN THE SPECIFICATIONS.
- E THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PASSIVE CABLING INCLUDING THE INSTALLATION AND ASSOCIATED TERMINATIONS OF CABLING BETWEEN THE OUTLET AND DESIGNATED PATCH PANEL, INCLUDING DESIGN OF PATCH PANELS, WELDED SPLICING OF PATCH PANELS AND THE DESIGN OF ANY ACTIVE NETWORK EQUIPMENT FOR EQUIPMENT TO A COMMUNICATION OUTLET OR PATCH PANEL. ACTIVE NETWORK EQUIPMENT AND PATCHING SHALL BE COMPLETED BY OTHERS.
- F THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING A FIBER OPTIC PATHWAY FROM THE BHS SERVER ROOM TO THE EXISTING TERMINAL TSA (ROOM 2901). THIS CONNECTION SHALL BE ACCOMPLISHED BY PATCHING MULTIPLE STRANDS OF NEW FIBER OPTIC FROM THE BHS SERVER ROOM TO THE NEW MDF ROOM TO THE EXISTING MDF ROOM. IN THE EXISTING MDF ROOM, THE CONTRACTOR SHALL MAKE THE FIBER OPTIC PATCHING INSTALLED BY THIS PROJECT TO EXISTING FIBER OPTIC CABLING COMING FROM THE EXISTING TERMINAL TSA. SEE DRAWING TC12.07 FOR DETAILS.

KEY PLAN

