MEMPHIS INTERNATIONAL AIRPORT

ID OFFICE EA & WA AREA SANITARY SEWER REPAIR

2491 Winchester Rd, Memphis, TN 38116

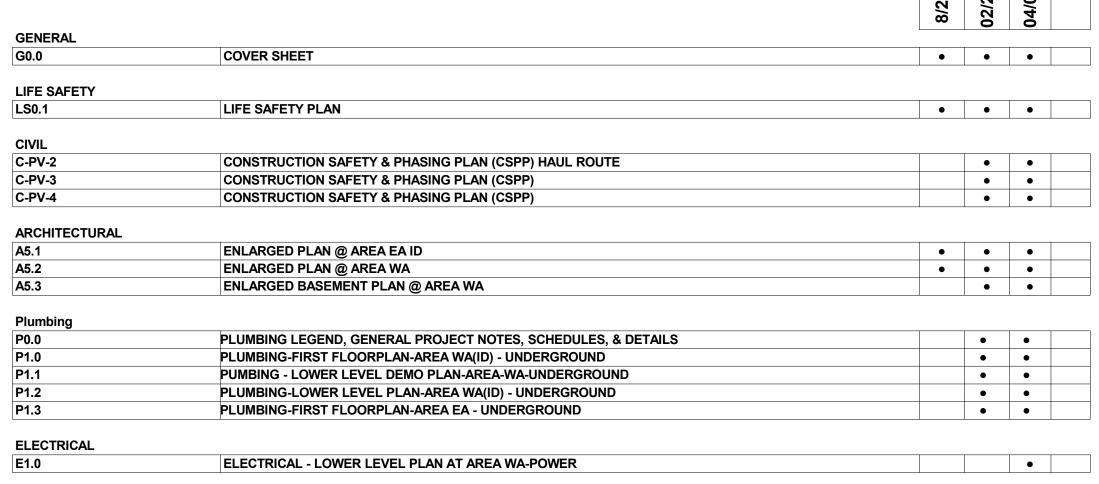
BID SET April 9, 2021



Renaissance Group
architecture • engineering • planning • interiors

9700 Village Circle, Suite 100
Lakeland, TN 38002
901.332.5533
fax: 901.332.5534
www.rgroup.biz

INDEX OF DRAWINGS



PROJECT NOTE

- CONTRACTOR'S FIELD SUPERINTENDENT MUST BE PRESENT AND RESPONSIBLE FOR OVERSEEING THE WORK PROGRESS WHEN ANY REPAIR WORK IS PERFORMED. FOR THE DURATION OF THE REPAIR PROJECT, CONTRACTOR MUST MAINTAIN AND FURNISH ELECTRONIC DAILY LOG TO PROJECT TEAM AND OWNER DESIGNATED PERSONNEL DAILY. THE LOG DOCUMENTATION SHALL INCLUDE INFORMATION SUCH AS WEATHER CONDITION, WORK COMPLETED, PROGRESS PICTURES, FIELD CHANGES, CONCEALED CONDITIONS, TRANSITION OF MATERIAL, UNFORESEEN DAMAGES, INCIDENTS ETC. THIS INFORMATION SHALL BE INCLUDED AS PART OF THE CLOSEOUT DOCUMENT AT THE
- 2. THE GC SHALL PLAN AND SCHEDULE THE PROGRESSION OF THE WORK SO THAT FINISHED AREAS DO NOT HAVE TO BE OPERATED ON OR OTHERWISE USED AS ROUTES FOR MATERIAL TRANSPORTATION IN ORDER TO REACH REMAINING WORK. SCHEDULE ANY PREPARATION WORK TO MINIMIZE THE RISK OF DAMAGE, COORDINATE WITH OWNER THE SEQUENCE OF DEMOLITION AND CONSTRUCTION PRIOR TO STARTING OF WORK.
- 3. CONTRACTOR SHALL SCHEDULE THE WORK PER MANUFACTURER RECOMMENDATION AND SPECIFICATION. CONTRACTOR WILL BE FULLY RESPONSIBLE FOR WATER DAMAGE TO THE PROPERTY DUE TO UNFINISHED OPEN WORK.
- 4. COORDINATE THE COMPATIBILITY OF THE PREPARATION WORK WITH THE REQUIREMENTS OF THE MATERIALS AND PROCEDURES SPECIFIED FOR THE NEW WORK. SCHEDULE ALL PREPARATION WORK TO COINCIDE AS CLOSELY AS PRACTICABLE WITH THE INSTALLATION OF NEW MATERIALS.
- 5. ANY DAMAGE TO EXISTING SITE, INCLUDING BUT NOT LIMITED TO PAVEMENT SIDEWALK, ETC., USED AS HAUL ROUTES OR ACCESS ROUTES SHALL BE CONSIDERED THE RESPONSIBILITY OF THE CONTRACTOR AND HE/SHE SHALL PROMPTLY REPAIR ANY DAMAGED PAVEMENT TO ITS ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.
- 6. CONTRACTOR MUST FOLLOW THE OWNER REQUIREMENTS OF ID BADGING AND ACCESS TO WORK AREA THAT REQUIRE SECURITY CREDENTIALS.
- VERIFY JOB CONDITIONS PRIOR TO BEGINNING WORK. REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS WHICH MAY INTERFERE WITH SATISFACTORY COMPLETION OF WORK. RESOLVE ANY DISCREPANCIES PRIOR TO BEGINNING WORK. VERIFY ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION, INSTALLATION CRITERIA. COORDINATE ALL TRADES AND THE METHODS OF CONSTRUCTION. ALL WORK IS TO CONFORM WITH DRAWINGS AND SPECS. DRAWINGS ARE NOT TO BE SCALED FOR INFORMATION. CONTRACTOR TO VERIFY THE ACTUAL SIZE FOR PROPER INSTALLATION.

8. NOT USI

- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, APPROVALS, LICENSES, ETC., FOR ALL TRADES. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL CODES, ORDINANCES, AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR FILING AND SECURING ALL NECESSARY PERMITS, APPROVALS, ETC., FOR ALL TRADES.
- 10. ENSURE THE PREMISES ARE MAINTAINED CLEAN AND FREE OF DEBRIS DURING REPAIR. COORDINATE THE FREQUENCY OF REMOVAL WITH OWNER. FINAL CLEANUP IS THE RESPONSIBILITY OF THE CONTRACTOR. REPAIR, PATCH, TOUCH-UP AND MAINTAIN CLEANING THROUGHOUT THE PROJECT. REMOVE AND DISPOSE OF ALL DEMOLISHED MATERIAL AND OTHER CONSTRUCTION DEBRIS. OWNER'S DUMPSTER(S) OR TRASH CAN(S) SHALL NOT BE `FOR DISPOSAL OF ANY CONSTRUCTION WASTE. REPAIR GROUND DAMAGE CAUSED BY TRUCK TRAFFIC.
- 11. CONTRACTOR TO OVERSEE CLEANING AND ENSURE THAT THE PREMISES ARE MAINTAINED AND SECURED DURING CONSTRUCTION. DAILY CLEANUP AND FINAL CLEANUP IS THE RESPONSIBILITY OF THE CONTRACTOR. REPAIR, PATCH, TOUCH-UP AND MAINTAIN CLEANING UNTIL ACCEPTANCE BY OWNER OWNER OWNER OWNER THAT HAS NOT BEEN PROPERLY PROTECTED FROM CONSTRUCTION MATERIAL, UNPROTECTED FOOT TRAFFIC OR ANY CONSTRUCTION ACTIVITY HAS POTENTIALLY COMPROMISED THE INTEGRITY OF THE NEW INSTALLATION.

12. NOT USE

- 13. COORDINATE AND OBTAIN APPROVAL FROM OWNER FOR LOCATION OF DUMPSTER, MATERIAL STAGING, ETC.
- 14. ALL MATERIAL STORED ON SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION UNTIL USE. FAILURE TO PROTECT MATERIAL MAY BE CAUSE FOR BE JECTION OF WORK
- 15. REMOVE CONSTRUCTION AND GENERAL DEBRIS FROM THE WORK AREA. DISCARD ANY SCREWS, METAL SCRAPS, FOOD, WATER BOTTLES AND MISCELLANEOUS GARBAGE.
- 16. ALL WORK IS TO CONFORM WITH DRAWINGS AND SPECS. DRAWINGS ARE APPROXIMATE ONLY AND NOT TO BE SCALED FOR INFORMATION. PAYMENT WILL NOT BE MADE TO GENERAL CONTRACTOR ON CHANGES OR EXTRAS UNLESS THEY ARE VERIFIED AND APPROVED BY OWNER.
- 17. SHOULD CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS OR WHERE DETAIL REFERENCES OR CONTRACT DRAWINGS HAVE BEEN OMITTED, CONTRACTOR IS DEEMED TO HAVE ESTIMATED THE MOST EXPENSIVE MATERIALS AND CONSTRUCTION INVOLVED UNLESS THEY HAVE ASKED FOR AND OBTAINED WRITTEN PERMISSION FROM ARCHITECT AS TO WHICH MATERIAL OR METHOD WILL BE REQUIRED.
- 18. SHOULD AN ERROR APPEAR IN THE SPECIFICATIONS OR DRAWINGS NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTIONS AS TO PROCEDURE. IF CONTRACTOR PROCEEDS WITH WORK AFFECTED WITHOUT INSTRUCTIONS FROM THE ARCHITECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY RESULTING DAMAGE OR DEFECT.
- 19. NO PORTION OF THE WORK REQUIRING A SHOP DRAWING OR SAMPLE SUBMISSION SHALL BE COMMENCED UNTIL THE SUBMISSION HAS BEEN APPROVED BY THE
- ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS AND SAMPLES.

 20. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH SATISFACTORY COMPLETION OF WORK. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION,
- INSTALLATION CRITERIA, COORDINATION OF ALL TRADES AND THE METHODS OF CONSTRUCTION.

 21. CONTRACTOR SHALL PROVIDE A SCHEDULE OF SHOP DRAWINGS, SAMPLES AND CUT SHEETS TO ENGINEER FOR APPROVAL PRIOR TO ORDERING OR FABRICATION.
- CONTRACTOR'S RESPONSIBILITY FOR ERROR OR OMISSIONS IN SUBMITTAL IS NOT RELIEVED BY A/E REVIEW OF SUBMITTAL. DISRUPTION SHALL BE MINIMAL OUTSIDE PROJECT LIMIT AT ALL TIMES DURING CONSTRUCTION.
- 22. THE EXACT LIMITS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF MSCAA.
- 23. CONTRACTOR SHALL EXERCISE ALL SAFETY PRECAUTION DURING SEWER REPAIR WORK. DO NOT ALLOW WASTE MATERIAL TO COLLECT IN CONCENTRATED BUILDUPS AROUND THE WORK AREA. FURNISH PROTECTION OF THE BUILDINGS CONTENTS AND PERSONNEL AT ALL TIMES. COLLECT AND REMOVE DEMOLITION AND WASTE MATERIAL FROM THE WORK AREA IN AN ORDERLY MANNER.
- 24. THE AREAS AROUND THE SEWER REPAIR WORK WILL BE OCCUPIED DURING SEWER REPAIR; THEREFORE, IT IS OF UTMOST IMPORTANCE THAT NO LEAKING OR FLOODING OCCURS DURING THE WORK. COORDINATE ALL MATERIAL, WORKMEN ACCESS, WITH THE OWNER'S REPRESENTATIVE TO MINIMIZE DISRUPTION OF THE OWNER'S USE OF THE FACILITY AND TO MINIMIZE THE THREAT OF LOSS OR DAMAGE TO THE EXISTING FACILITY, ITS CONTENTS, AND OCCUPANTS.
- THE CONSTRUCTION SHALL NOT COMPROMISE SECURITY, LIFE SAFETY OR FIRE SAFETY REQUIREMENTS. ANY WORK AFFECTING CODE REQUIREMENTS SHALL BE COMPLETED IN THE SAME WORK DAY OR TEMPORARY MEASURES SHALL BE TAKEN TO ASSURE SAFETY COMPLIANCE AT ALL TIMES.
- 26. ALL INFILL MATERIAL TO BE CODE APPROVED ONLY. MSCAA WILL ALLOW A TEMPORARY SOLUTION (AT CONTRACTOR EXPENSE) IF ISSUES ARISE ON MATERIAL, BUT ONLY WITH PRIOR APPROVAL ON THE MSCAA PM.
- 27. UNLESS NOTED OTHERWISE, CONTRACT TIME FOR THE SEWER REPAIR PROJECT SHALL BE 45 DAYS. SEE TERMS AND CONDITIONS IN PROCUREMENT REQUIREMENT FOR INFORMATION ABOUT LIQUIDATED DAMAGES.
- 28. ALL WORK THAT WOULD GENERATE EXCESSIVE NOISE SUCH AS DEMOLITION JACK HAMMERING, SAW CUTTING ETC MUST OCCUR AT NIGHT FROM 2200-0500 TO AVOID DISTURBANCE OF THE DAY TIME OPERATION OF THE AIRPORT.
- 29. EMERGENCY CONTACTS SEE INFO ON DRAWING C-PV2 TO C-PV4.

TAKE OFF WITH US.

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PROGRAM MANAGER

PARSONS
PROGRAM MANAGEMENT CONSULTA

PARSONS TRANSPORTATION GROUP INC PROJECT OFFICE: 4225 AIRWAYS BLVD. MEMPHIS , TN 38116



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NO. DESCRIPTION DATE

ID OFFICE AND WA AREA SANITARY SEWER REPAIR

19-1423-00 (19-1423-11)

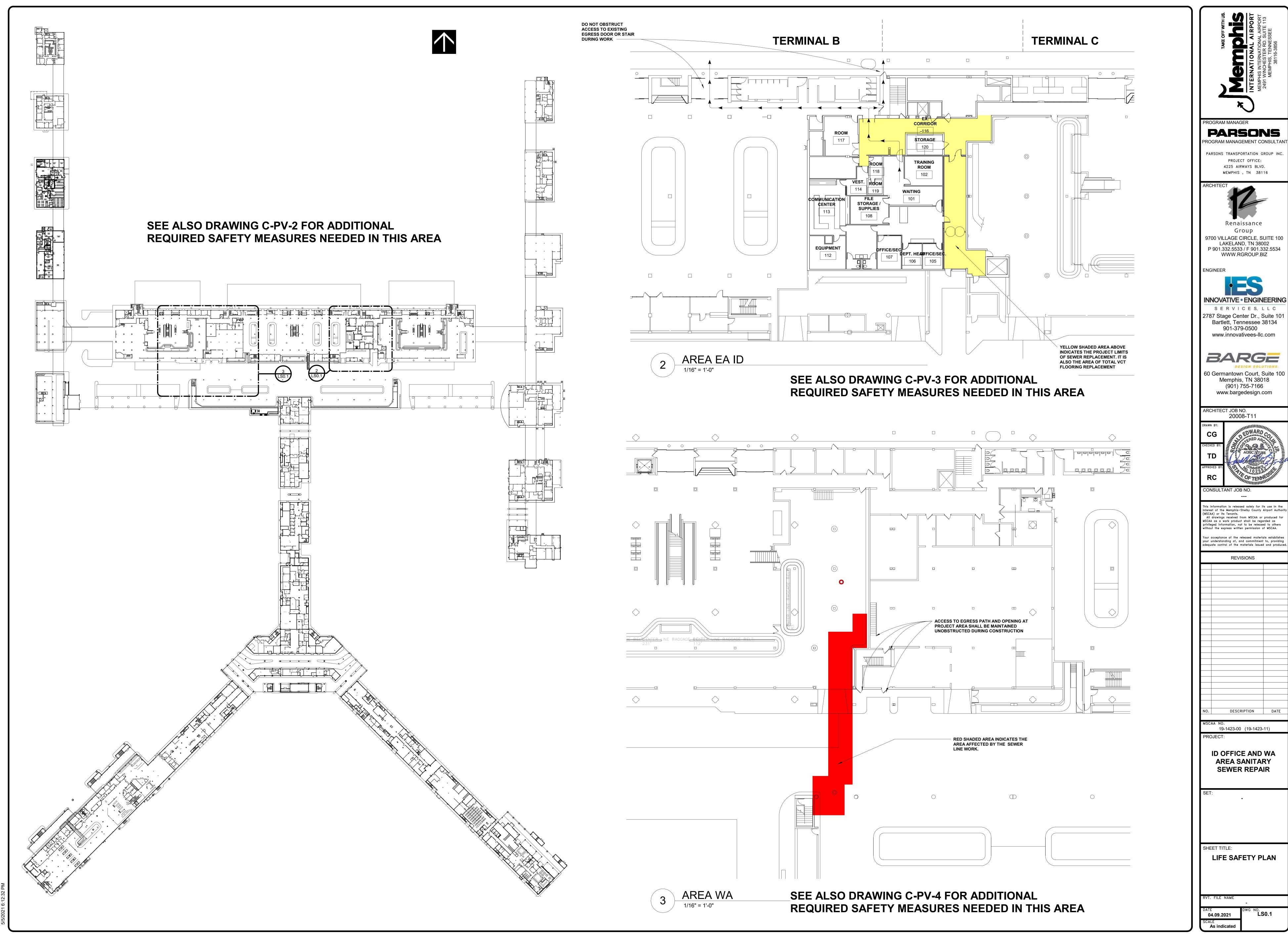
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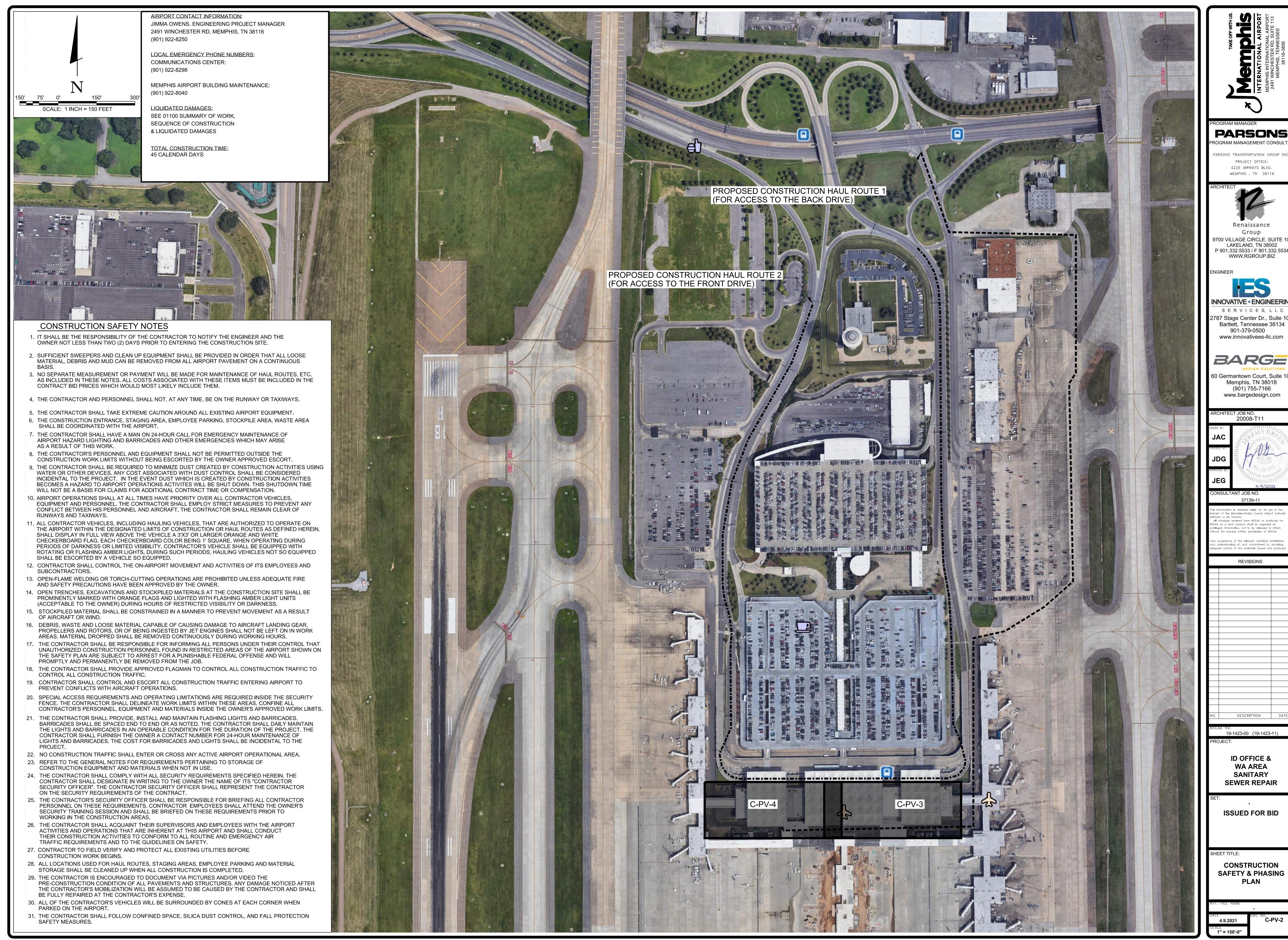


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BARGE

SEWER REPAIR



PARSONS

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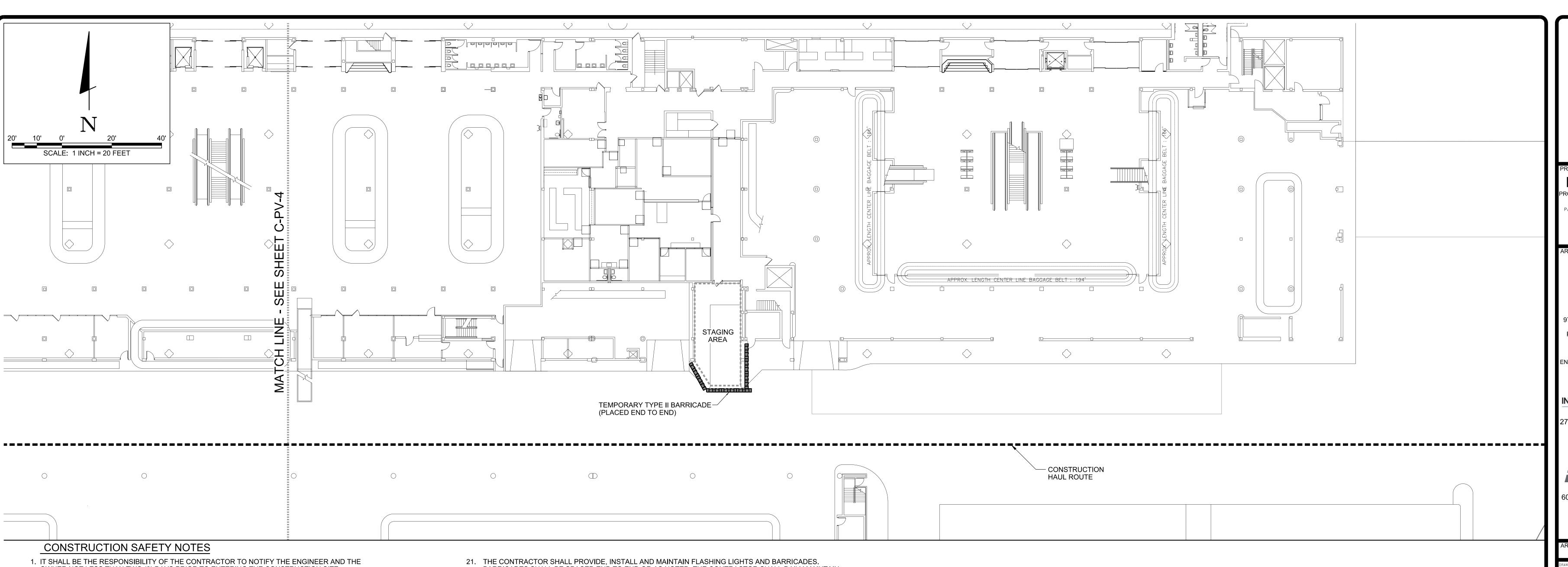
SANITARY

ISSUED FOR BID

SHEET TITLE:

CONSTRUCTION **SAFETY & PHASING** PLAN

C-PV-2



- OWNER NOT LESS THAN TWO (2) DAYS PRIOR TO ENTERING THE CONSTRUCTION SITE.
- 2. SUFFICIENT SWEEPERS AND CLEAN UP EQUIPMENT SHALL BE PROVIDED IN ORDER THAT ALL LOOSE MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT PAVEMENT ON A CONTINUOUS
- 3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR MAINTENANCE OF HAUL ROUTES, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
- 4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS.
- 5. THE CONTRACTOR SHALL TAKE EXTREME CAUTION AROUND ALL EXISTING AIRPORT EQUIPMENT
- 6. THE CONSTRUCTION ENTRANCE, STAGING AREA, EMPLOYEE PARKING, STOCKPILE AREA, WASTE AREA SHALL BE COORDINATED WITH THE AIRPORT.
- 7. THE CONTRACTOR SHALL HAVE A MAN ON 24-HOUR CALL FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES AND OTHER EMERGENCIES WHICH MAY ARISE AS A RESULT OF THIS WORK.
- 8. THE CONTRACTOR'S PERSONNEL AND EQUIPMENT SHALL NOT BE PERMITTED OUTSIDE THE CONSTRUCTION WORK LIMITS WITHOUT BEING ESCORTED BY THE OWNER APPROVED ESCORT
- 9. THE CONTRACTOR SHALL BE REQUIRED TO MINIMIZE DUST CREATED BY CONSTRUCTION ACTIVITIES USING WATER OR OTHER DEVICES. ANY COST ASSOCIATED WITH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN THE EVENT DUST WHICH IS CREATED BY CONSTRUCTION ACTIVITIES BECOMES A HAZARD TO AIRPORT OPERATIONS ACTIVITES WILL BE SHUT DOWN. THIS SHUTDOWN TIME WILL NOT BE A BASIS FOR CLAIMS FOR ADDITIONAL CONTRACT TIME OR COMPENSATION
- 10. AIRPORT OPERATIONS SHALL AT ALL TIMES HAVE PRIORITY OVER ALL CONTRACTOR VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT. THE CONTRACTOR SHALL REMAIN CLEAR OF RUNWAYS AND TAXIWAYS.
- 11. ALL CONTRACTOR VEHICLES, INCLUDING HAULING VEHICLES, THAT ARE AUTHORIZED TO OPERATE ON THE AIRPORT WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION OR HAUL ROUTES AS DEFINED HEREIN, SHALL DISPLAY IN FULL VIEW ABOVE THE VEHICLE A 3'X3' OR LARGER ORANGE AND WHITE CHECKERBOARD FLAG. EACH CHECKERBOARD COLOR BEING 1' SQUARE. WHEN OPERATING DURING PERIODS OF DARKNESS OR LIMITED VISIBILITY, CONTRACTOR'S VEHICLE SHALL BE EQUIPPED WITH ROTATING OR FLASHING AMBER LIGHTS. DURING SUCH PERIODS, HAULING VEHICLES NOT SO EQUIPPED SHALL BE ESCORTED BY A VEHICLE SO EQUIPPED.
- 12. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
- 13. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS HAVE BEEN APPROVED BY THE OWNER.
- 14. OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING AMBER LIGHT UNITS (ACCEPTABLE TO THE OWNER) DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.
- 15. STOCKPILED MATERIAL SHALL BE CONSTRAINED IN A MANNER TO PREVENT MOVEMENT AS A RESULT OF AIRCRAFT OR WIND.
- 16. DEBRIS, WASTE AND LOOSE MATERIAL CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEAR. PROPELLERS AND ROTORS, OR OF BEING INGESTED BY JET ENGINES SHALL NOT BE LEFT ON IN WORK AREAS. MATERIAL DROPPED SHALL BE REMOVED CONTINUOUSLY DURING WORKING HOURS.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING ALL PERSONS UNDER THEIR CONTROL THAT UNAUTHORIZED CONSTRUCTION PERSONNEL FOUND IN RESTRICTED AREAS OF THE AIRPORT SHOWN ON THE SAFETY PLAN ARE SUBJECT TO ARREST FOR A PUNISHABLE FEDERAL OFFENSE AND WILL PROMPTLY AND PERMANENTLY BE REMOVED FROM THE JOB.
- 18. THE CONTRACTOR SHALL PROVIDE APPROVED FLAGMAN TO CONTROL ALL CONSTRUCTION TRAFFIC TO CONTROL ALL CONSTRUCTION TRAFFIC.
- 19. CONTRACTOR SHALL CONTROL AND ESCORT ALL CONSTRUCTION TRAFFIC ENTERING AIRPORT TO PREVENT CONFLICTS WITH AIRCRAFT OPERATIONS.
- 20. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.

- BARRICADES SHALL BE SPACED END TO END OR AS NOTED. THE CONTRACTOR SHALL DAILY MAINTAIN THE LIGHTS AND BARRICADES IN AN OPERABLE CONDITION FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL FURNISH THE OWNER A CONTACT NUMBER FOR 24-HOUR MAINTENANCE OF LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE
- 22. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA. 23. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.
- 24. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
- 25. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
- 26. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
- 27. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.
- 28. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
- 29. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 30. ALL OF THE CONTRACTOR'S VEHICLES WILL BE SURROUNDED BY CONES AT EACH CORNER WHEN PARKED ON THE AIRPORT.
- 31. THE CONTRACTOR SHALL FOLLOW CONFINED SPACE, SILICA DUST CONTROL, AND FALL PROTECTION SAFETY MEASURES.

AIRPORT CONTACT INFORMATION: JIMMA OWENS, ENGINEERING PROJECT MANAGER 2491 WINCHESTER RD, MEMPHIS, TN 38116 (901) 922-8250

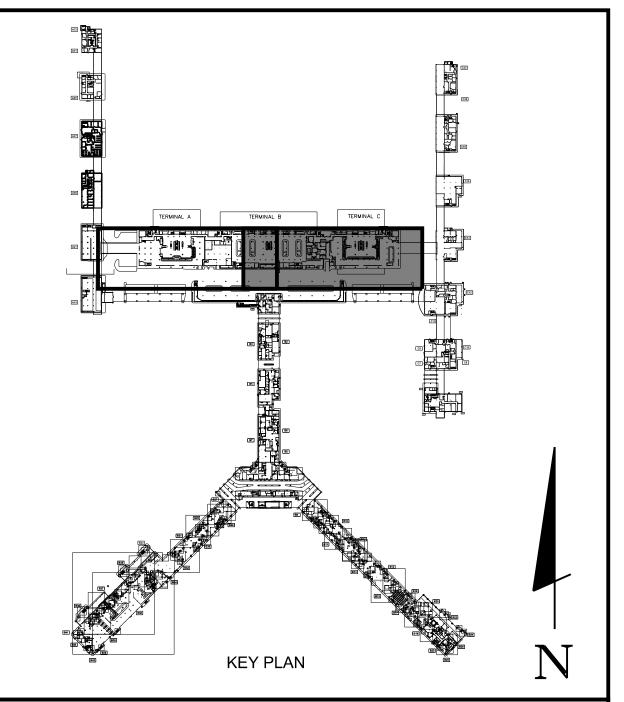
LOCAL EMERGENCY PHONE NUMBERS: COMMUNICATIONS CENTER: (901) 922-8298

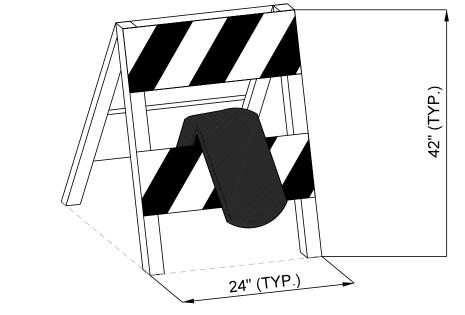
MEMPHIS AIRPORT BUILDING MAINTENANCE: (901) 922-8040

LIQUIDATED DAMAGES: SEE 01100 SUMMARY OF WORK, SEQUENCE OF CONSTRUCTION

TOTAL CONSTRUCTION TIME: 45 CALENDAR DAYS

& LIQUIDATED DAMAGES

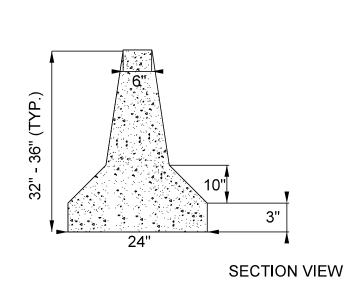


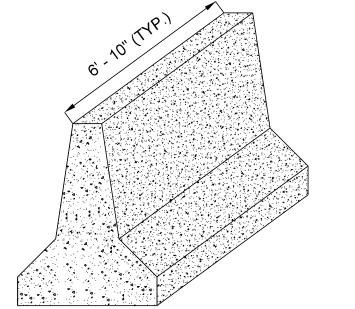


(C0.02) SCALE: N.T.S.

- BARRICADES SHALL BE TYPE II PLASTIC, HIGH-INTENSITY REFLECTION ORANGE/WHITE.
- ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED.
- BARRICADES SHALL BE PLACED END TO END & SHALL BE REFLECTIVE ON BOTH SIDES.
- WEIGHTED SANDBAGS SHALL BE REQUIRED.

TYPE II BARRICADE DETAIL





2 CONCRETE JERSEY BARRICADE C0.02 SCALE: N.T.S.

PARSONS

PARSONS TRANSPORTATION GROUP IN PROJECT OFFICE: 4225 AIRWAYS BLVD. MEMPHIS , TN 38116



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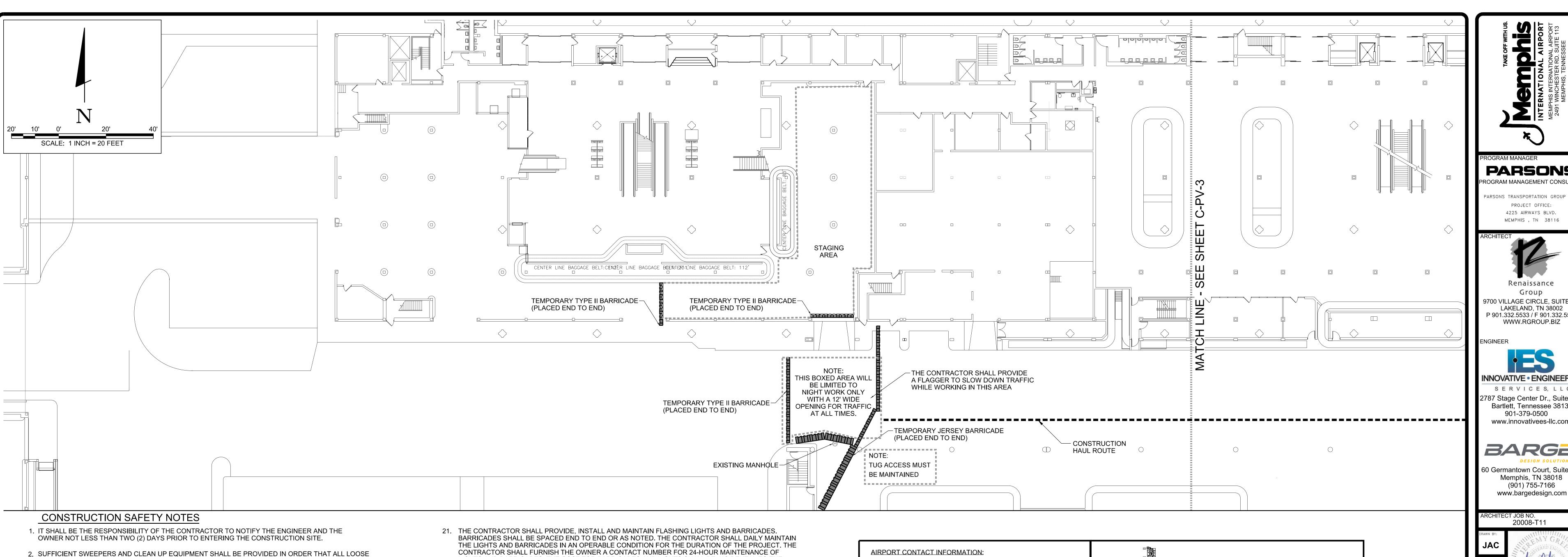
ID OFFICE & **WA AREA SANITARY SEWER REPAIR**

ISSUED FOR BID

SHEET TITLE:

CONSTRUCTION **SAFETY & PHASING** PLAN

1" = 20'-0"



- MATERIAL, DEBRIS AND MUD CAN BE REMOVED FROM ALL AIRPORT PAVEMENT ON A CONTINUOUS
- 3. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR MAINTENANCE OF HAUL ROUTES, ETC. AS INCLUDED IN THESE NOTES. ALL COSTS ASSOCIATED WITH THESE ITEMS MUST BE INCLUDED IN THE CONTRACT BID PRICES WHICH WOULD MOST LIKELY INCLUDE THEM.
- 4. THE CONTRACTOR AND PERSONNEL SHALL NOT, AT ANY TIME, BE ON THE RUNWAY OR TAXIWAYS.
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- 12. CONTRACTOR SHALL CONTROL THE ON-AIRPORT MOVEMENT AND ACTIVITIES OF ITS EMPLOYEES AND SUBCONTRACTORS.
- 13. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE
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- 20. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS. CONFINE ALL CONTRACTOR'S PERSONNEL, EQUIPMENT AND MATERIALS INSIDE THE OWNER'S APPROVED WORK LIMITS.

- LIGHTS AND BARRICADES. THE COST FOR BARRICADES AND LIGHTS SHALL BE INCIDENTAL TO THE
- 22. NO CONSTRUCTION TRAFFIC SHALL ENTER OR CROSS ANY ACTIVE AIRPORT OPERATIONAL AREA. 23. REFER TO THE GENERAL NOTES FOR REQUIREMENTS PERTAINING TO STORAGE OF
- 24. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE OWNER THE NAME OF ITS "CONTRACTOR SECURITY OFFICER". THE CONTRACTOR SECURITY OFFICER SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT.
- 25. THE CONTRACTOR'S SECURITY OFFICER SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS. CONTRACTOR EMPLOYEES SHALL ATTEND THE OWNER'S SECURITY TRAINING SESSION AND SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREAS.
- 26. THE CONTRACTOR SHALL ACQUAINT THEIR SUPERVISORS AND EMPLOYEES WITH THE AIRPORT ACTIVITIES AND OPERATIONS THAT ARE INHERENT AT THIS AIRPORT AND SHALL CONDUCT THEIR CONSTRUCTION ACTIVITIES TO CONFORM TO ALL ROUTINE AND EMERGENCY AIR TRAFFIC REQUIREMENTS AND TO THE GUIDELINES ON SAFETY.
- 27. CONTRACTOR TO FIELD VERIFY AND PROTECT ALL EXISTING UTILITIES BEFORE CONSTRUCTION WORK BEGINS.

CONSTRUCTION EQUIPMENT AND MATERIALS WHEN NOT IN USE.

- 28. ALL LOCATIONS USED FOR HAUL ROUTES, STAGING AREAS, EMPLOYEE PARKING AND MATERIAL STORAGE SHALL BE CLEANED UP WHEN ALL CONSTRUCTION IS COMPLETED.
- 29. THE CONTRACTOR IS ENCOURAGED TO DOCUMENT VIA PICTURES AND/OR VIDEO THE PRE-CONSTRUCTION CONDITION OF ALL PAVEMENTS AND STRUCTURES. ANY DAMAGE NOTICED AFTER THE CONTRACTOR'S MOBILIZATION WILL BE ASSUMED TO BE CAUSED BY THE CONTRACTOR AND SHALL BE FULLY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 30. ALL OF THE CONTRACTOR'S VEHICLES WILL BE SURROUNDED BY CONES AT EACH CORNER WHEN PARKED ON THE AIRPORT.
- 31. THE CONTRACTOR SHALL FOLLOW CONFINED SPACE, SILICA DUST CONTROL, AND FALL PROTECTION SAFETY MEASURES.

JIMMA OWENS, ENGINEERING PROJECT MANAGER 2491 WINCHESTER RD, MEMPHIS, TN 38116 (901) 922-8250

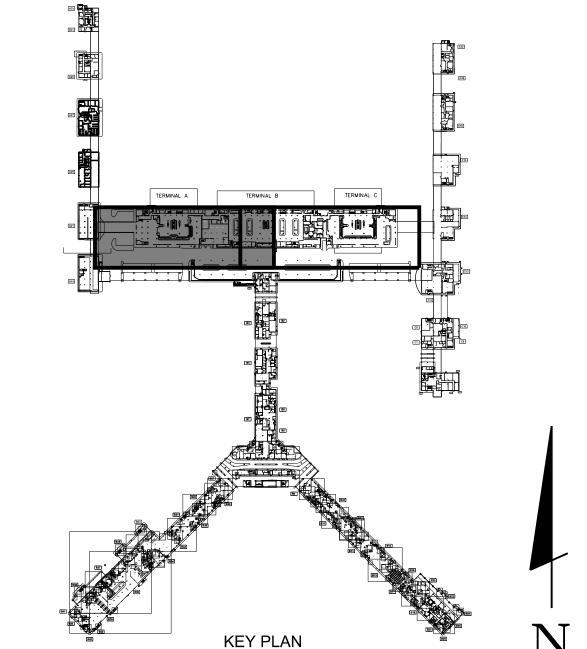
LOCAL EMERGENCY PHONE NUMBERS: COMMUNICATIONS CENTER: (901) 922-8298

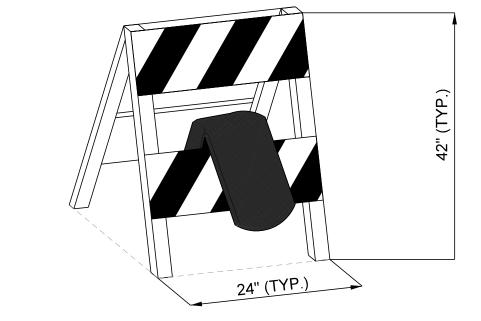
MEMPHIS AIRPORT BUILDING MAINTENANCE:

(901) 922-8040 LIQUIDATED DAMAGES: SEE 01100 SUMMARY OF WORK,

SEQUENCE OF CONSTRUCTION & LIQUIDATED DAMAGES

TOTAL CONSTRUCTION TIME: 45 CALENDAR DAYS





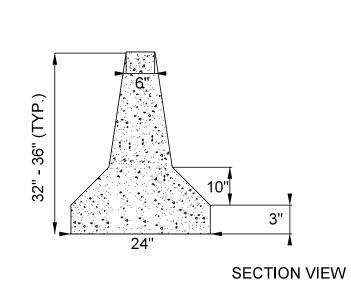
BARRICADES SHALL BE TYPE II PLASTIC,

ALL BARRICADES SHALL DELINEATE THE AREA TO BE PROTECTED.

HIGH-INTENSITY REFLECTION ORANGE/WHITE.

- BARRICADES SHALL BE PLACED END TO END
- & SHALL BE REFLECTIVE ON BOTH SIDES.
- WEIGHTED SANDBAGS SHALL BE REQUIRED.

TYPE II BARRICADE DETAIL (C0.02) SCALE: N.T.S.



2 CONCRETE JERSEY BARRICADE C0.02 SCALE: N.T.S.

PARSONS

PARSONS TRANSPORTATION GROUP INC PROJECT OFFICE: 4225 AIRWAYS BLVD. MEMPHIS , TN 38116



Renaissance Group 9700 VILLAGE CIRCLE, SUITE 100 LAKELAND, TN 38002 P 901.332.5533 / F 901.332.5534



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DESCRIPTION

19-1423-00 (19-1423-11)

ID OFFICE & **WA AREA SANITARY SEWER REPAIR**

ISSUED FOR BID

SHEET TITLE:

CONSTRUCTION **SAFETY & PHASING** PLAN

1" = 20'-0"



DEMOLITION GENERAL NOTES

- DEMOLISH AS REQUIRED TO ACCOMPLISH THE WORK INDICATED IN THESE DOCUMENTS. ALL REQUIRED DEMOLITION WORK SHALL BE INCLUDED IN THE BASE BID PACKAGE
- SUBMITTED BY THE CONTRACTOR. DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY DEMOLITION TO ACCUMULATE ON THE JOB SITE. REMOVE DAILY AND DISPOSE OF IN A LEGAL MANNER.
- THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF CONSTRUCTION DRAWINGS. DO NOT REMOVE ANY ITEMS WITHOUT VERIFYING AND COORDINATING WITH ALL GENERAL TRADES AS TO HOW THEY RELATE TO THE OVERALL

THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS

- TO ENSURE THE SAFETY OF THE PUBLIC AND/OR WORKMEN ON THE SITE TO PREVENT ACCIDENTS OR INJURY TO ANY PERSON ON, ABOUT, OR ADJACENT TO THE PREMISES. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, CODES, AND REGULATIONS PERTAINING TO SAFETY AND THE PREVENTION OF ACCIDENTS.
- THE CONTRACTOR MUST MAINTAIN ADEQUATE SUPPORT, INSULATION, WATERPROOFING, EMERGENCY LIGHTING, SECURITY, ALARMS, ETC. FOR ALL OR PART OF THE ITEMS
- WHICH ARE TO REMAIN. LIMITED VIDEO FILES OF THE UNDERGROUND PIPING
- **INSPECTION ARE AVAILABLE FROM MSCAA.** PLUMBING LINE LOCATION INDICATED ON DRAWINGS IS FOR REFERENCE ONLY. CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING PLUMBING LINE PRIOR TO
- COMMENCEMENT OF DEMOLITION WORK. BEFORE CORE DRILLING OR CUTTING ANY FLOOR SLAB. CONTRACTOR MUST SCAN THE AFFECTED AREA WITH GROUND PENETRATING RADAR TO DETERMINE THE APPROPRIATE LOCATION OF CUTTING. OBTAIN APPROVAL FROM OWNER BEFORE CUTTING TO AVOID UNNECESSARY DAMAGE OF INFRASTRUCTURE.

PHASES FOR EA ID OFFICE AREA PLUMBING REPAIR

- CURRENT UNOBSTRUCTED PEDESTRIAN PATH TO BE MAINTINED AREA G
- PRIMARY AREA OF REPAIR WITH CONSTRUCTION BARRIER AREA A TO D

- SECONDARY AREA OF REPAIR AREA E1 E2 E3

- AREA OF REPAIR TO BE PERFORMED AFTER HOUR TO MINIMIZE INTERUPTION
- UNOBSTRUCTED ACCESS TO ID OFFICE & COMMUNICATION CENETER AREA X

DASHED LINES AT AREA C AND E INDICATE THE APPROXIMATE LOCATION OF TEMPORARY CONSTRUCTION BARRIER DURING SEWER REPAIR. SEE **DETAIL 3/A5.2 FOR DETAILS**

GENERAL NOTES:

1. COORDINATE WITH MSCAA FOR ALTERNATE STAFF ENTRANCE BETWEEN TERMINALS IN AREAS WHERE TRAFFIC IS TYPICALLY DIRECTED THROUGH AREAS OF SEWER REPAIR.

2. COORDINATE WITH MSCAA FOR ALTERNATIVE ACCESS FOR EMPLOYEE

ACCESS ROUTE AND CHECK IN LOCATIONS DURING CONSTRUCTION. 3. ENSURE RETURN AIR BLOCKAGE IS PROVIDED IN ORDER TO PREVENT

ODOR FROM RE-ENTERING AIR CIRCULATION FROM AREAS

OF SEWER REPAIR TO OTHER AREAS. 4. CONFIRM PHASE AND SCHDEULE OF REPAIR IN ORDER TO MINIMIZE REQUIRED

DEMOLITION AND PREVENT UNNECESSARY SERVICE INTERUUPTION. 5. EXISTING VCT FLOOR TILES WITHIN PROJECT AREA TO BE ENTIRELY REPLACED

WITH NEW. COLOR TO MATCH EXISTING AND APPROVED BY MSCAA

6. REFER TO PLUMBING DRAWINGS FOR LOCATION OF NEW UNDERGROUND LINE REPLACEMENT

7. ALL EXISTING UNSUITABLE MATERIAL AT PLUMBING REPAIR MUST BE REMOVED PROMPTLY TO MINIMIZE OBJECTIONABLE ODOR. COMPACT NEW FILL MATERIAL AT PLUMBING REPAIR.

8. WHERE FLOOR SLAB WAS CUT , INSTALL NEW 4000 PSI CONCRETE PATCH OF EQUAL THICKNESS WITH WIRE MESH AND 15 MIL VAPOR TO MATCH EXISTING ADJACENT AREA.

9. DOWEL CONCRETE REPAIR AT 48" O.C. AS NEEDED TO PREVENT VERTICAL

10. DEBRIS MUST BE CLEANED UP DAILY.

11. CONSTRUCTION HAUL TRAFFIC MUST BE APPROVED BY MSCAA.

12. FLOOR OUTSIDE PROJECT LIMIT MUST BE PROPERLY PROTECTED.

CONSTRUCTION TRAFFIC FROM PEDESSTRIAN/ PASSENGER TRAFFIC. 14. SMOKE DETECTOR , ALARM, AND ANY CEILING OR WALL MOUNTED DEVICES MUST

13. TEMPORARY SAFETY BARRIER MUST BE IN PLACE DURING REPAIR TO SEPARATE

BE PROPERLY PROTECTED FROM CONSTRUCTION ACTIVITIES.

15. AIR RETURN MAY NEED TO BE TEMPORARY CLOSED FOR PROPER VENTILATION.

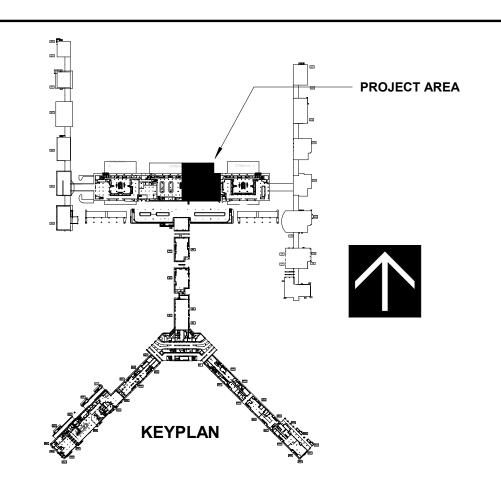
16. FIRE AND LIFE SAFETY MUST NOT BE COMPROMISED.

18. COORDINATE WITH AIRPORT OPERATION IF TEMPORARY SHUT OFF OF RESTROOM SERVICES OR OTHER UTILITIES IS NEEDED IN ORDER TO PERFORM THE REPAIR WORK

19.PROTECT ALL EXISTING FINISH OUTSIDE PROJECT LIMIT

20 PROTECT AND MAINTAIN ALL EXISTING EGRESS ACCESS UNLESS NOTED OTHERWISE 21.TEMP CONSTRUCTION BARRIER, DUST AND ODOR CONTROL.TO BE CONSTRUCTED AT WORK AREA FOR SAFETY

22. CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING PLUMBING LINE PRIOR TO COMMENCEMENT OF DEMOLITION WORK. SEE PLUMBING DRAWING FOR ADDITIONAL DETAILS



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19-1423-00 (19-1423-11)

ID OFFICE AND WA **AREA SANITARY SEWER REPAIR**

SHEET TITLE:

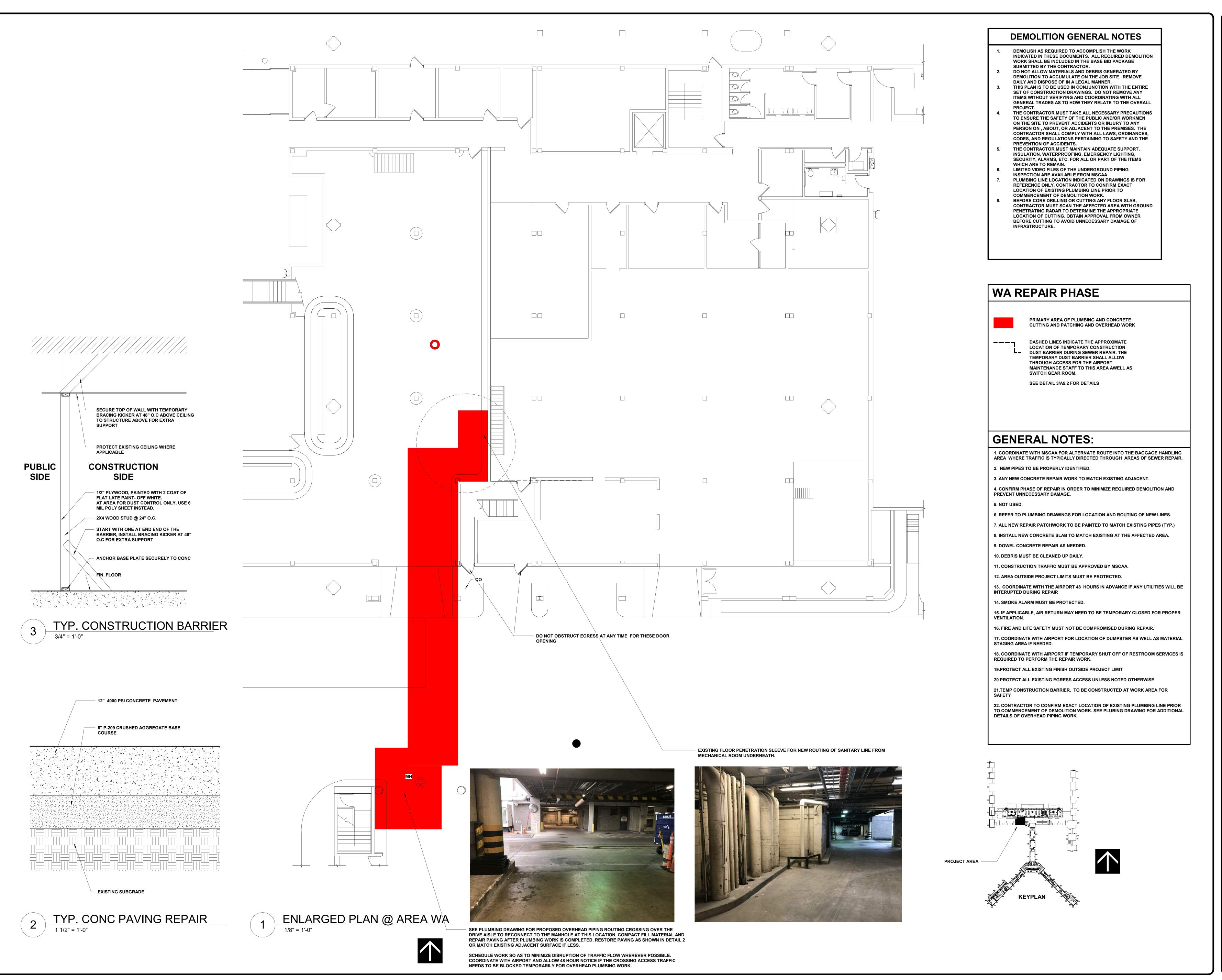
ENLARGED PLAN @ AREA EA ID

04.09.2021 As indicated

YELLOW AREA AS SHOWN ON SHEET LS 0.1 TO RECEIVE NEW VCT TILES AFTER SEWER LINE REPLACEMENT. REMOVE ALL EXISTING FLOOR TILES AND REPLACE ALL WITH NEW OF THE SAME COLOR AND ACCENT PATTERN. SUBMIT COLOR SAMPLE TO ARCHITECT AND MSCAA FOR APPROVAL. PROVIDE TRANSITION STRIP AT FLOOR TRANSITION. CLEAN AND WAX FLOOR TO MATCH THE FLOOR CONDITION BEFORE REPAIR. COORDINATE WITH MSCAA FOR SPECFIC AIRLINE DIRECTIONAL SIGN. PROTECT AND DO NOT DAMAGE ABUTTING WALL FINISHES.

ID AREA PROJECT NOTES

ACCEPTED



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ARCHITECT JOB NO. 20008-T11

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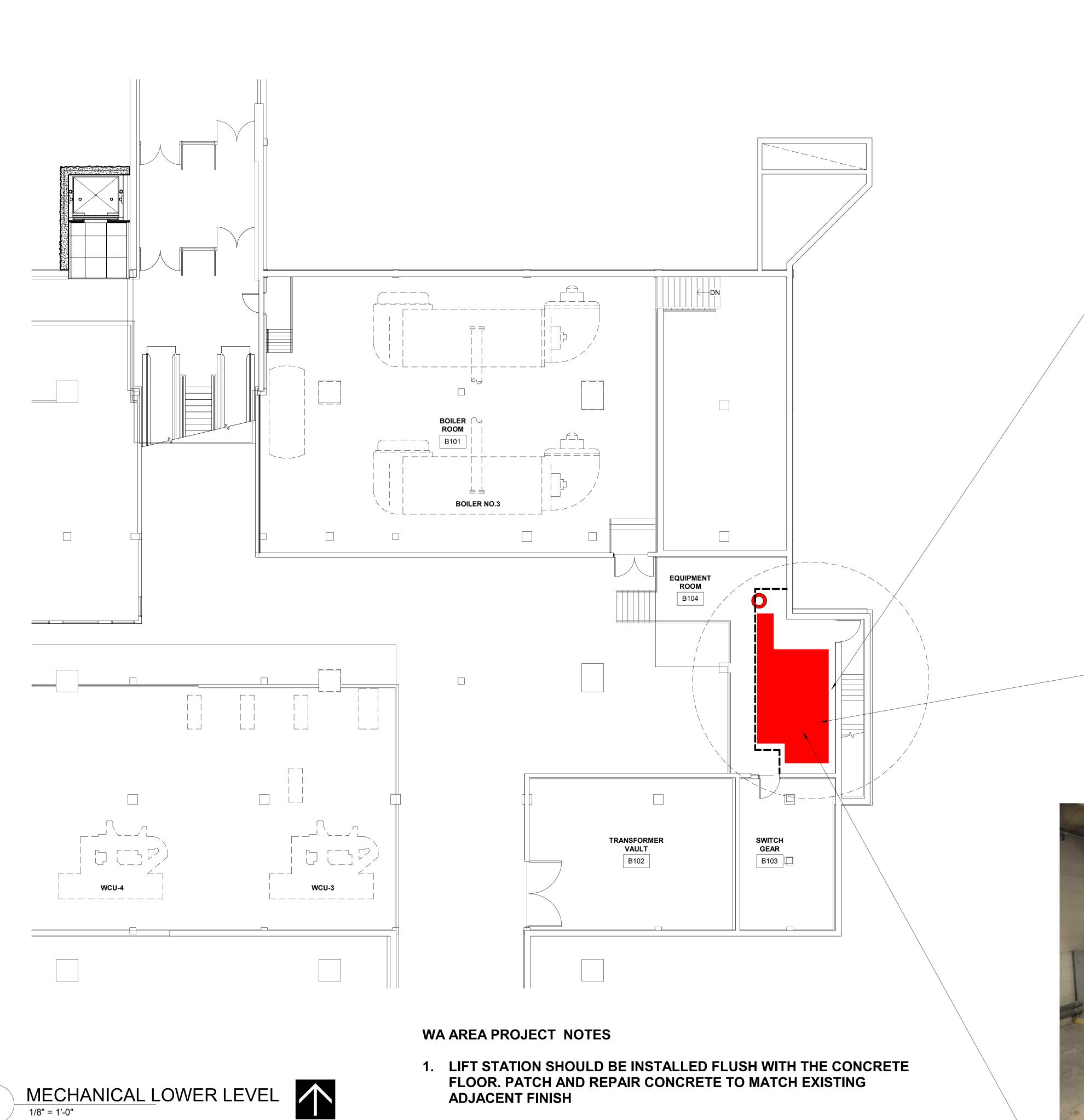
DESCRIPTION DATE 19-1423-00 (19-1423-11)

ID OFFICE AND WA

AREA SANITARY SEWER REPAIR

SHEET TITLE:

ENLARGED PLAN @ AREA WA



2. CONTRACTOR IS RESPONSIBILE TO INSTALL A 8 1/2"X11" FRAMED

"PLEASE CALL 8040 IF THIS ALARM SOUNDS, WA LIFT STATION".

COORDINATE FINAL LOCATION OF SIGN WITH AIRPORT AUTHORITY.

3. COORDINATE THE ALARM SETUP WITH AIRPORT MAINTENANCE AND

EVENT SHOULD SEND NOTIFICATION TO THE JOHNSON CONTROL

JOHNSON CONTROL FOR PUMPS FAILURE NOTIFICATION. THE

SEE ELECTRICAL SHEET E1.0 FOR DETAIL REGARDING THE

AUDIBLE AND VISUAL ALARM ON THE BAGGAGE LEVEL.

SIGN THAT READS THE FOLLOWING:

BUILDING AUTOMATION SYSTEM.

EXISTING SLEEVE THRU CONC CEILING/ FLOOR FOR NEW SAINITARY LINE ROUTING. FILL ANNULAR SPACE AFTER PLUMBING WORK IS COMPLETED WITH FIRE CAULKING MATERIAL.



MAINTAIN AT LEAST 48" WIDE UNOBSTRUCTED ACCESS TO SWITCH GEAR ROOM AND THE STAIRWELL AT ALL ALL TIME DURING SEWER REPAIR WORK. INSTALL TEMP DUST CONTROL DURING SAW CUTTING TO PROTECT THE NEARBY ELECTRICAL SWITCH GEAR.

THIS WALL HAS BEEN REMOVED AND **REBUILT BY OTHER** FOR THE SWITCH GEAR REPLACEMENT



SEE PLUMBING FOR LOCATION OF NEW LIFT STATION AND ACCESS BOX. SAWCUT CONCRETE AS NEEDED FOR PLACING OF NEW PUMP. REPAIR CONCRETE IMMEDAITELY AFTER PLUMBING WORK IS COMPLETED. COMPACT FILL AND REPAIR CONCRETE TO MATCH EXISTING. SEE PLUMBING FOR DETAIL OF PUMP, ROUTING AS WELL

DEMOLITION GENERAL NOTES

- DEMOLISH AS REQUIRED TO ACCOMPLISH THE WORK INDICATED IN THESE DOCUMENTS. ALL REQUIRED DEMOLITION WORK SHALL BE INCLUDED IN THE BASE BID PACKAGE
- SUBMITTED BY THE CONTRACTOR. DO NOT ALLOW MATERIALS AND DEBRIS GENERATED BY
- DEMOLITION TO ACCUMULATE ON THE JOB SITE. REMOVE DAILY AND DISPOSE OF IN A LEGAL MANNER. THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF CONSTRUCTION DRAWINGS. DO NOT REMOVE ANY ITEMS WITHOUT VERIFYING AND COORDINATING WITH ALL GENERAL TRADES AS TO HOW THEY RELATE TO THE OVERALL
- THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE PUBLIC AND/OR WORKMEN ON THE SITE TO PREVENT ACCIDENTS OR INJURY TO ANY PERSON ON , ABOUT, OR ADJACENT TO THE PREMISES. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, CODES, AND REGULATIONS PERTAINING TO SAFETY AND THE
- PREVENTION OF ACCIDENTS. THE CONTRACTOR MUST MAINTAIN ADEQUATE SUPPORT INSULATION, WATERPROOFING, EMERGENCY LIGHTING, SECURITY, ALARMS, ETC. FOR ALL OR PART OF THE ITEMS
- WHICH ARE TO REMAIN. LIMITED VIDEO FILES OF THE UNDERGROUND PIPING
- INSPECTION ARE AVAILABLE FROM MSCAA. PLUMBING LINE LOCATION INDICATED ON DRAWINGS IS FOR REFERENCE ONLY. CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING PLUMBING LINE PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
- BEFORE CORE DRILLING OR CUTTING ANY FLOOR SLAB, CONTRACTOR MUST SCAN THE AFFECTED AREA WITH GROUND PENETRATING RADAR TO DETERMINE THE APPROPRIATE LOCATION OF CUTTING. OBTAIN APPROVAL FROM OWNER BEFORE CUTTING TO AVOID UNNECESSARY DAMAGE OF INFRASTRUCTURE.

WA REPAIR PHASE



PRIMARY AREA OF PLUMBING AND CONCRETE **CUTTING AND PATCHING AND OVERHEAD WORK**

DASHED LINES INDICATE THE APPROXIMATE LOCATION OF TEMPORARY CONSTRUCTION **DUST BARRIER DURING SEWER REPAIR. THE** TEMPORARY DUST BARRIER SHALL ALLOW THROUGH ACCESS FOR THE AIRPORT MAINTENANCE STAFF TO THIS AREA AWELL AS SWITCH GEAR ROOM.

SEE DETAIL 3/A5.2 FOR DETAILS

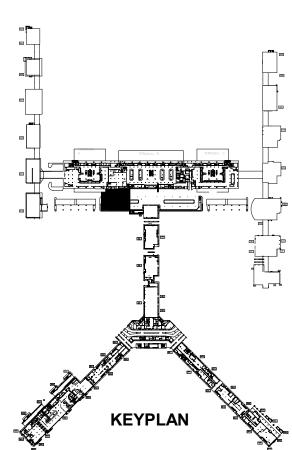
GENERAL NOTES:

1. COORDINATE WITH MSCAA FOR ALTERNATE ROUTE INTO THE BAGGAGE HANDLING AREA WHERE TRAFFIC IS TYPICALLY DIRECTED THROUGH AREAS OF SEWER REPAIR.

- 2. NEW PIPES TO BE PROPERLY IDENTIFIED.
- 3. ANY NEW CONCRETE REPAIR WORK TO MATCH EXISTING ADJACENT.
- 4. CONFIRM PHASE OF REPAIR IN ORDER TO MINIMIZE REQUIRED DEMOLITION AND PREVENT UNNECESSARY DAMAGE. 5. NOT USED.
- 6. REFER TO PLUMBING DRAWINGS FOR LOCATION AND ROUTING OF NEW LINES.
- 7. ALL NEW REPAIR PATCHWORK TO BE PAINTED TO MATCH EXISTING PIPES (TYP.)
- 8. INSTALL NEW CONCRETE SLAB TO MATCH EXISTING AT THE AFFECTED AREA.
- 9. DOWEL CONCRETE REPAIR AS NEEDED.
- 10. DEBRIS MUST BE CLEANED UP DAILY.
- 11. CONSTRUCTION TRAFFIC MUST BE APPROVED BY MSCAA.
- 12. AREA OUTSIDE PROJECT LIMITS MUST BE PROTECTED.
- 13. COORDINATE WITH THE AIRPORT 48 HOURS IN ADVANCE IF ANY UTILITIES WILL BE INTERUPTED DURING REPAIR
- 14. SMOKE ALARM MUST BE PROTECTED.
- 15. IF APPLICABLE, AIR RETURN MAY NEED TO BE TEMPORARY CLOSED FOR PROPER VENTILATION.
- 16. FIRE AND LIFE SAFETY MUST NOT BE COMPROMISED DURING REPAIR. 17. COORDINATE WITH AIRPORT FOR LOCATION OF DUMPSTER AS WELL AS MATERIAL
- STAGING AREA IF NEEDED. 18. COORDINATE WITH AIRPORT IF TEMPORARY SHUT OFF OF RESTROOM SERVICES IS
- 19.PROTECT ALL EXISTING FINISH OUTSIDE PROJECT LIMIT

REQUIRED TO PERFORM THE REPAIR WORK.

- 20 PROTECT ALL EXISTING EGRESS ACCESS UNLESS NOTED OTHERWISE
- 21.TEMP CONSTRUCTION BARRIER, TO BE CONSTRUCTED AT WORK AREA FOR
- 22. CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING PLUMBING LINE PRIOR TO COMMENCEMENT OF DEMOLITION WORK. SEE PLUBING DRAWING FOR ADDITIONAL DETAILS OF OVERHEAD PIPING WORK.



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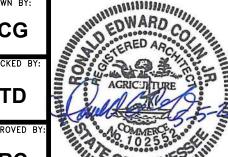
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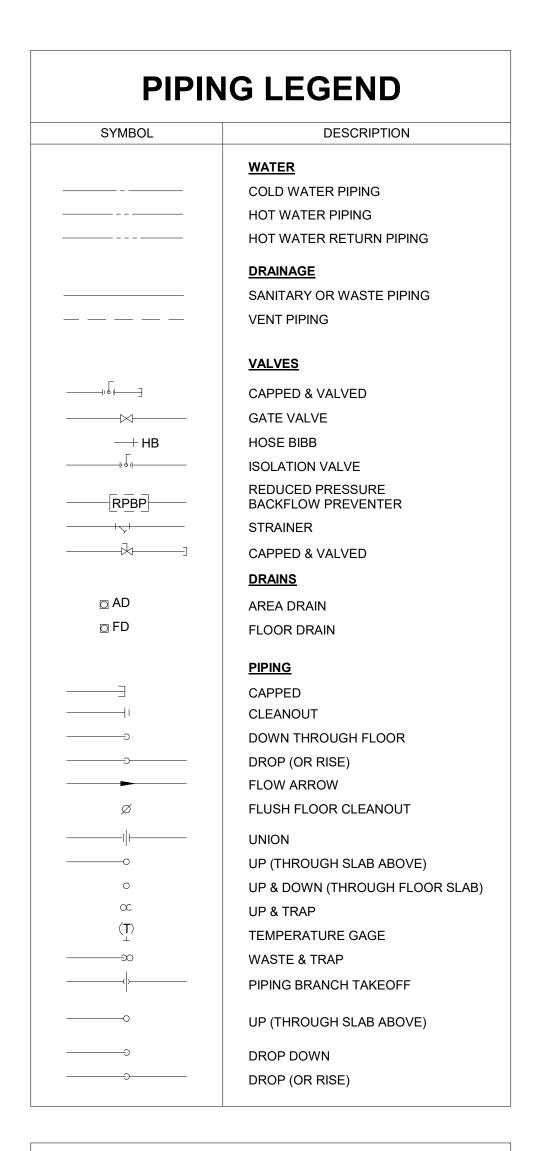
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ID OFFICE AND WA

AREA SANITARY SEWER REPAIR

ENLARGED BASEMENT PLAN @ AREA WA

04.09.2021



SYMBOLS LEGEND

WC-1	X DRAWING NUMBER
PLUMBING FIXTURE DESIGNATION	PXXX SHEET NUMBER
- LOWBING TIXTORE BEGIONATION	DETAIL DESIGNATION
X/PXXX	(A1.2)
ELEVATION DETAIL DESIGNATION	
\wedge	COLUMN LINE DESIGNATION
XXX	$oldsymbol{\Theta}$
REVISION DESIGNATION	POINT OF CONNECTION/REMOVAL

CODE ANALYSIS - INTERNATIONAL BUILDING CODE 2015

CODE COMMENTS			
JURISDICTION			
Memphis and Shelby County Construction Code Enforcement			
APPLICABLE CODES			
2015 International Building Code with Local Amendments			
2015 International Existing Building Code with Local Amendments			
2015 International Residential Code with Local Amendments			
2014 National Electrical Code			
2018 Joint Electrical Code			
2015 International Mechanical Code with Local Amendments			
2015 International Fuel Gas Code with Local Amendments			
2015 International Plumbing Code with Local Amendments			
2015 International Energy Conservation Code with Local Amendments			
2009 ICC A117.1 Accessibility and Useable Buildings and Facilities)by referen			
2013 ASME 17.1 Safety Code for Elevators and Escalators (by reference)			

GENERAL PROJECT NOTES

CONTRACTOR SHALL COORDINATE ALL PLUMBING SYSTEMS WITH ALL OTHER TRADES, SO NOT TO CAUSE INTERFERENCES.

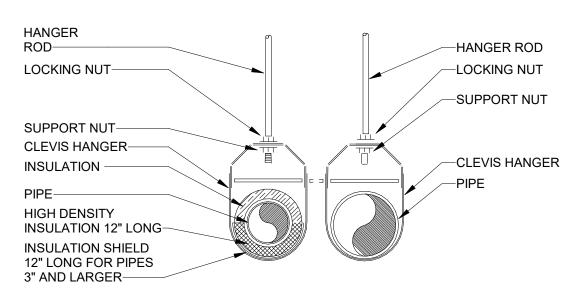
- CONTRACTOR SHALL FIELD VERIFY ALL SITE UTILITY CONNECTIONS OR SIZE, LOCATION, AND DEPTH AND INSTALL ALL SYSTEMS IN ACCORDANCE WITH CONDITIONS FOUND (PRIOR TO BEGINNING INSTALLATION). ANY PART OF PLUMBING SYSTEMS INSTALLED INCORRECTLY DUE TO NOT VERIFYING SAME SHALL BE REMOVED AND CORRECTED AT THE
- CONTRACTOR SHALL GUARANTEE ENTIRE SYSTEM FOR A PERIOD OF ONE YEAR AFTER FINAL DATE OF ACCEPTANCE.
- PROVIDE RATED SEALANT FOR ALL PENETRATIONS THROUGH WALLS, FLOORS, CEILINGS AND ROOFS. PROVIDE FIRE STOP SEALANT AROUND ALL PENETRATIONS THROUGH FIRE RATED WALLS, SO AS TO MAINTAIN FIRE INTEGRITY IN THE
- CONTRACTOR SHALL INSTALL ALL PLUMBING SYSTEMS IN A GOOD WORKMANSHIP MANNER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALLAPPLICABLE CODES AND AUTHORITIES.
- CONTRACTOR SHALL REVIEW ENTIRE SET OF DOCUMENTS INCLUDING PLUMBING PLANS AND ADVISE ARCHITECT IN WRITING PRIOR TO BEGINNING CONSTRUCTION IF THERE ARE ANY CODE VIOLATIONS, SPACE CONFLICTS AND/OR OTHER COORDINATION CONFLICTS WITH OTHER TRADES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH CODES, ETC.
- SEE ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, DETAILS, ELEVATIONS, AND EXACT LOCATIONS OF
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL PLUMBING LAYOUTS AND PIPE ROUTING ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS WHERE SPACE AND/OR COORDINATION ISSUES ARISE AND TO CONFIRM ALL SPACE ALLOCATIONS.
- CONTRACTOR SHALL PROVIDE TAMPER-PROOF, LOCKABLE ACCESS PANELS FOR ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, ETC.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL CHARACTERISTICS OF ELECTRICAL OPERATED EQUIPMENT WITH ELECTRICAL CONTRACTOR PRIOR TOORDERING SAME. THIS APPLIES TO VOLTAGE, PHASE, RATED CAPACITIES, ETC.
- 11. CONTRACTOR SHALL OFFSET ALL PIPING IN BUILDING AS REQUIRED TO PROPERLY INSTALL PLUMBING SYSTEMS.
- 12. CONTRACTOR SHALL PROVIDE SHUTOFF VALVES ON ALL BRANCH RUNOUTS TO FIXTURES. NO EXCEPTIONS!
- AT COMPLETION OF PROJECT, THE CONTRACTOR SHALL REMOVE ALL AERATORS, FILTERS, ETC. AND FLUSH SYSTEM OUT THOROUGHLY.
- CONTRACTOR SHALL VERIFY ALL CONNECTIONS OF MISC. EQUIPMENT FURNISHED BY OTHERS PRIOR TO INSTALLING THE SAME AND MAKE ALL CONNECTIONS FOR THE SAME.
- SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH STRUCTURE. ALL HOLES THROUGH CONCRETE SHALL BE CORE-DRILLED. VERIFY LOCATION WITH ARCHITECT BEFORE COMMENCING WORK.
- ALL PIPING SHALL BE TESTED AND PROVEN TIGHT BEFORE PIPE IS CONCEALED.
- ALL SANITARY PIPING SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" PER FOOT, UNLESS NOTED OTHERWISE ON THE PLANS.
- PRIOR TO SUBMITTING BID, VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND THOROUGHLY INVESTIGATE EXISTING UTILITIES, WORKING CONDITIONS TO BE ENCOUNTERED ETC. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONDITIONS INCREASING COST WHICH WERE NOT KNOWN WHEN SUBMITTING PROPOSAL IF THE CONDITION WAS OBVIOUS AND COULD HAVE BEEN DISCOVERED DURING A SITE VISIT.
- DISCONNECT AND DISMANTLE EXISTING PLUMBING SYSTEMS AND EQUIPMENT TO BE DEMOLISHED AND LEAVE DEBRIS AND DISCONNECTED EQUIPMENT ON THE FLOOR FOR REMOVAL UNDER SECTION 02070 - SELECTIVE DEMOLITION.
- REMOVE EXISTING PLUMBING STACKS, MAINS AND BRANCHES WHEN SERVING FIXTURES TO BE DEMOLISHED. REMOVE PIPING BACK TO WITHIN 24" OF THE ACTIVE MAIN AND PROVIDE CAP OR PLUG TO SUIT SYSTEM. OBTAIN EXISTING RECORD DRAWINGS FROM THE OWNER. MAINTAIN EXISTING PLUMBING RISERS AND STACKS SERVING FIXTURES TO
- AFTER WALLS AND CEILINGS ARE REMOVED AND PIPING IS EXPOSED, VERIFY PIPING SERVES ONLY PLUMBING FIXTURES & EQUIPMENT INDICATED FOR DEMOLITION BEFORE SHUTDOWN FOR DISCONNECTION. IDENTIFY EXISTING PIPING WHICH SERVES FIXTURES & EQUIPMENT TO REMAIN. PROMPTLY NOTIFY ARCHITECT OF ACTIVE PIPING TO BE MAINTAINED WHEN LOCATED IN PARTITIONS TO BE DEMOLISHED.
- 22. REMOVE EXISTING STACKS AND RISERS LOCATED IN EXISTING PARTITIONS TO BE DEMOLISHED AND PROVIDE NEW OFFSET AT CEILING AND DROP THROUGH THE FLOOR AND RECONNECT TO THE EXISTING SERVICES AT THE FLOOR

MISC. CODE NOTES

- 1. PERMITS SHALL BE APPLIED FOR BY LICENSED CONTRACTOR.
- ANY CONTRACTOR WHO DESIRES TO INSTALL, ENLARGE, ALTER, REPAIR, MOVE OR REPLACE A PLUMBING SYSTEM, WHICH IS TO REGULATED BY THE CODE SHALL FIRST MAKE APPLICATION AND OBTAIN THE REQUIRED PERMIT FOR THE
- PLUMBING PLANS & INSTALLATION SUBJECT TO PLUMBING INSPECTOR'S COMMENTS & FIELD APPROVAL.
- ALL OF PLUMBING SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH CURRENT COUNTY PLUMBING CODE AND LOCAL ADMENDMENTS, PLUMBING INSPECTORS & PLANS EXAMINERS REVIEW.
- SEWER SHALL BE PERMITTED & INSPECTED THROUGH PLUMBING DEPARTMENT.

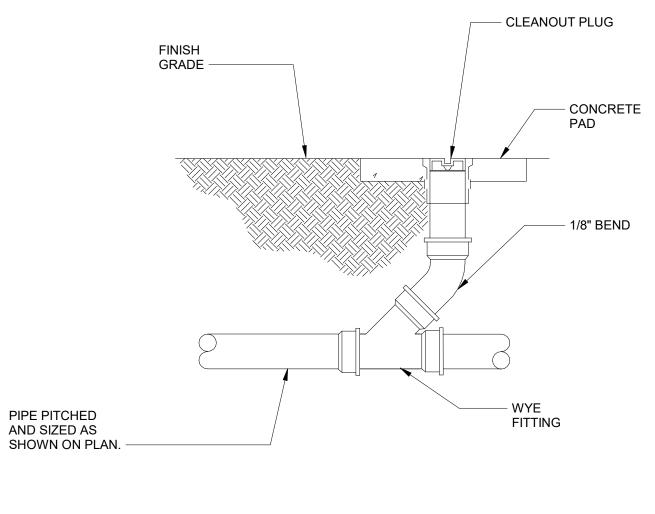
DRAWING LIST - PLUMBING

- P0.0 PLUMBING LEGEND, GENERAL PROJECT NOTES, SCHEDULES, & DETAILS
- P1.0 PLUMBING ENALRGED FIRST FLOOR PLAN @ AREA EA (ID) UNDERGROUND P1.1 PLUMBING - LOWER LEVEL DEMO PLAN @ AREA WA - UNDERGROUND
- P1.2 PLUMBING LOWER LEVEL PLAN @ AREA WA UNDERGROUND P1.3 PLUMBING - FIRST FLOOR PLAN @ AREA WA - UNDERGROUND
- Grand total: 5



HANGER RO	D SCHDULE	HAN	HANGER ROD SPACING		
PIPE SIZE	ROD SIZE	PIPE SIZE	MAX. ALLOWABLE SPACING		
UP TO 2"	3/8" DIA	1"	7'		
2 1/2" THRU 3"	1/2" DIA	1-1/4"	8'		
4" AND 5"	5/8"	1-1/2"	9'		
6" THRU 8"	3/4"	2"	10'		
12"	7/8"	2-1/2"	11'		
		3" THRU 8"	12'		
		10" & 12"	15'		

PIPE HANGER INSTALLATION



GROUND CLEANOUT

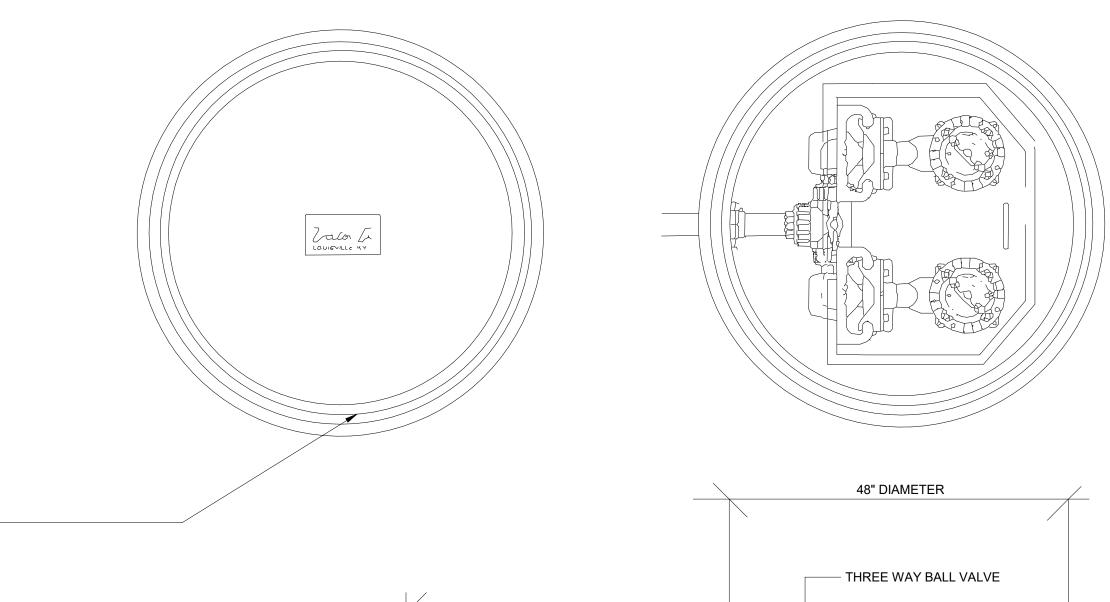
2 TYPICAL GROUND CLEANOUT NTS

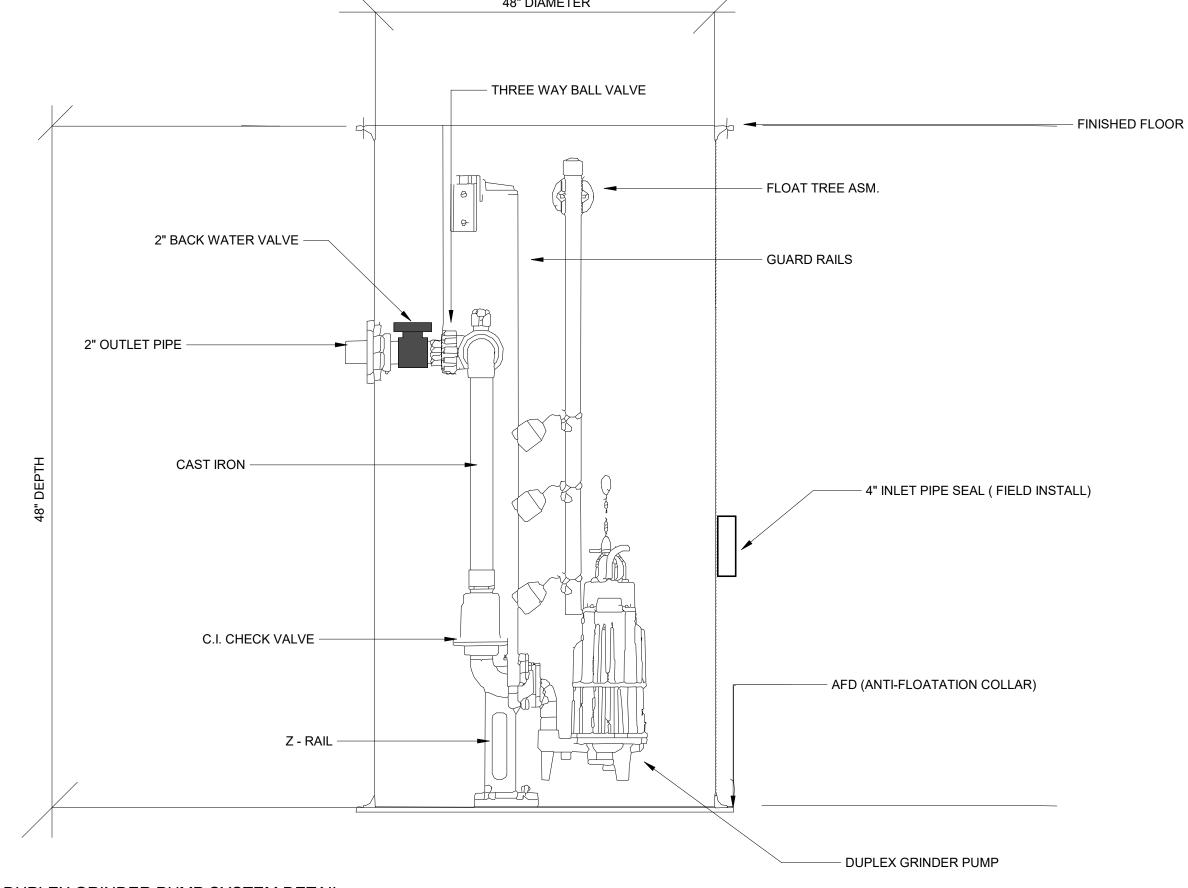
			PUI	MP SC	HEDULE		
SYMBOL	TYPE	ELECTRICAL (V/PH/HZ)	POWER (HP)	FLOW RATE (GPM)	PRESSURE CAPACITY (FT)	INLET/ OUTLET SIZE (IN)	BASIS OF DESIGN (OR APPROVED EQUAL)
SP-1	DUPLEX SUMP PUMP (GRINDER)	115/1/60	1	30	21	4"/2"	ZOELLER QLS SERIES LIFT STATION DUPLEX GRINDER PUMP SYSTEM WITH SHARK GRINDER PUMP MODEL 818 WITH ANTI FLOATATION COLLAR. FLEX -BOOT DISCHARGE CONNECTION AND CAST IRON PIPING. PRE-FAB CUSTOMIZED BASIN SIZE OF 48" DEEP AND 48" DIAMETER WITH FIBERGLASS HATCH COVER. PROVIDE ZOELLER CONTROL PANEL FOR DUPLEX OPERATION WITH ALTERNATING FEATURE FOR DUPLEX SYSTEMS.

STEEL HATCH

COORDINATE INSTALLATION OF SUMP PUMP WITH EXISTING STRUCTURAL AND ELECTRICAL CONDITIONS.

EACH SUMP PUMP SHALL BE 15 AMPS AND HAVE CAPACITY INDICATED IN THIS SCHEDULE.





3 DUPLEX GRINDER PUMP SYSTEM DETAIL
3/4" = 1'-0"

PARSONS PROGRAM MANAGEMENT CONSULTAI

PARSONS TRANSPORTATION GROUP INC

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Renaissance Group

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ARCHITECT JOB NO. 20008-T11

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DESCRIPTION DATE

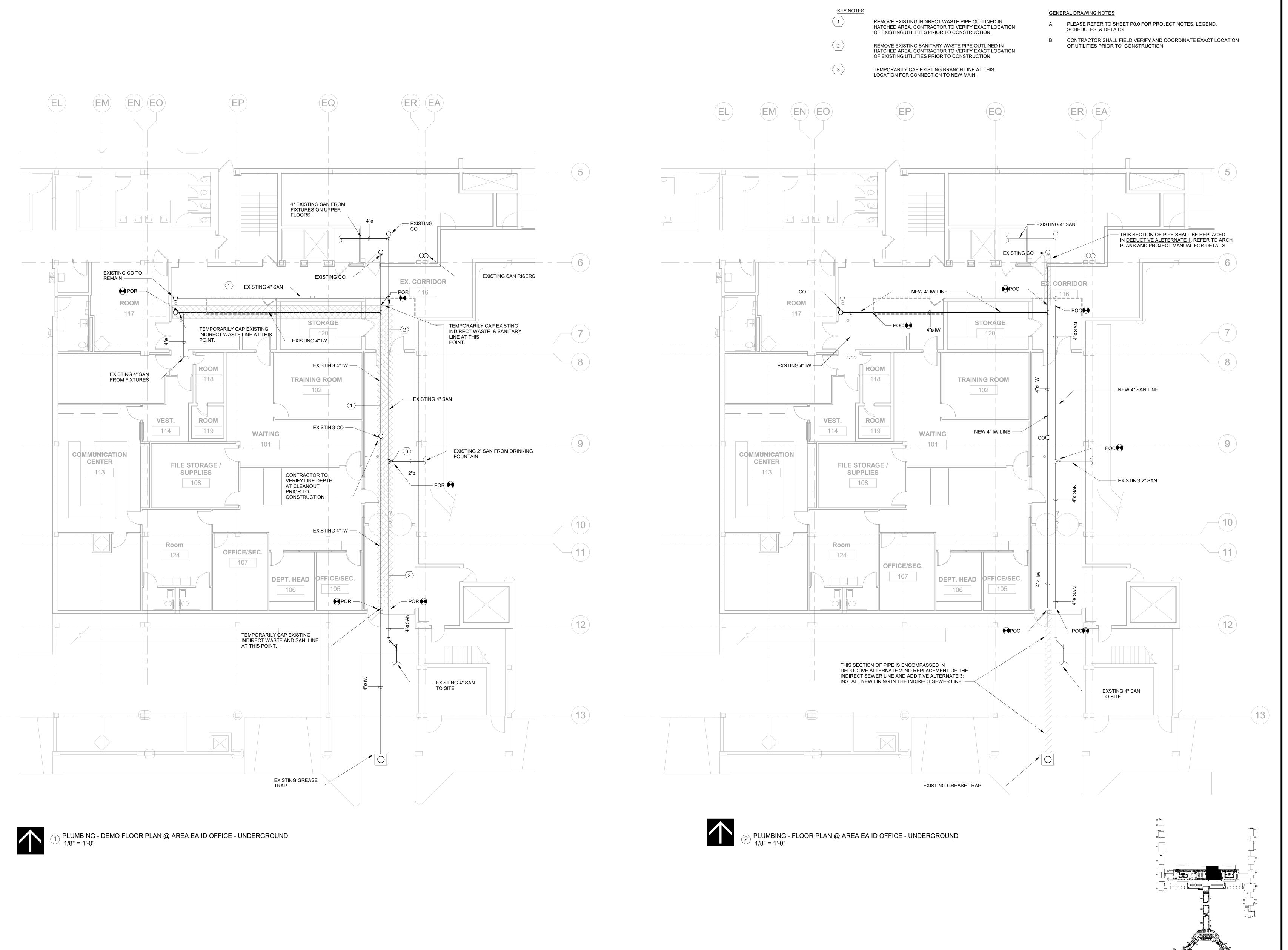
ID OFFICE AND WA AREA SANITARY SEWER REPAIR

ISSUED FOR BID

SHEET TITLE:

PLUMBING -LEGEND,GENERAL PROJECT NOTES, SCHEDULES, & DETAILS

4.9.2021



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INTERNATIONAL AIRPORT
2491 WINCHESTER RD. SUITE 113

MEMPHIS, TENNESSEE
38116-3856

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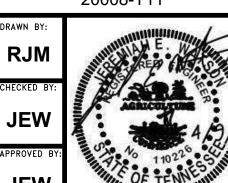
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JEW Jimmu

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	A A NO	

MSCAA NO. 19-1423-00 (19-1423-11)

ID OFFICE AND WA AREA SANITARY SEWER REPAIR

ISSUED FOR BID

ET TITLE:

PLUMBING - ENALRGED FIRST FLOOR PLAN @ AREA EA (ID) -UNDERGROUND

VT. FILE NAME

DATE
4.9.2021

SCALE
1/8" = 1'-0"

DWG NO.
P1.0

- EXISTING 4" SAN FROM RESTROOMS ON UPPER **FLOORS** BOILER ROOM B101 ___ EXISTING 4" SAN. **EQUIPMENT** ROOM B104 4" SAN. EXISTING CO TO REMAIN — — EXISTING 4" SAN. EXISTING CORE DRILLED HOLE EXISTING CHILLED WATER AT CEILING TO REMAIN - EXISTING 2" SAN PIPE & 2" VENT PIPE, CONTRACTOR VAULT TO FIELD VERIFY PRIOR TO CONSTRUCTION. SEE PHOTO #1 GREASE

GENERAL DRAWING NOTES

REFERENCE PHOTO #1

KEY NOTES

OPERATION.

CAP AND ABANDON EXISTING SANITARY LINE IN PLACE.

CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

PROVIDE TRENCH ROUTING FOR NEW FORCED MAIN LINE TO

CONTRACTOR SHALL PHASE DEMOLITION AND NEW WORK SO THAT SUMP PUMP AND FORCED MAIN PIPING IS INSTALLED FIRST PRIOR TO ABANDONEMENT OF EXISTING SAN LINE.

EXISTING LINE SHALL BE VALVED AT NEW CONNECTION AND READY FOR QUICK SWITCH OVER ONCE SUMP IS READY FOR

- A. PLEASE REFER TO SHEET P0.0 FOR PROJECT NOTES, LEGEND, SCHEDULES, & DETAILS
- B. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE EXACT LOCATION OF UTILITIES PRIOR TO CONSTRUCTION

PARSONS PROGRAM MANAGEMENT CONSULTAN

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DESCRIPTION DATE

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ID OFFICE AND WA AREA SANITARY SEWER REPAIR

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PLUMBING - LOWER LEVEL DEMO PLAN @ AREA WA -UNDERGROUND

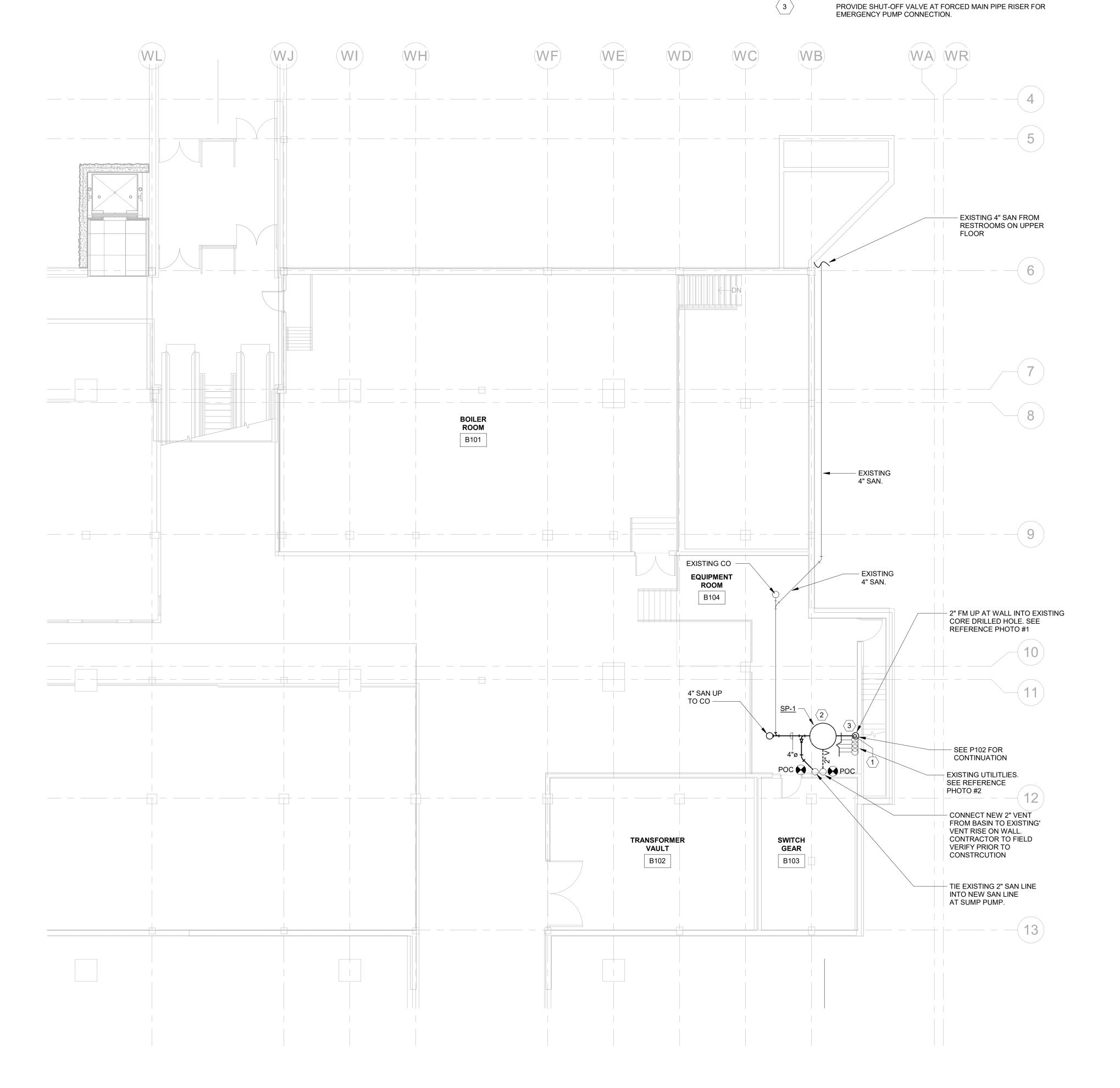
4.9.2021 1/8" = 1'-0"

PLUMBING - LOWER LEVEL DEMO FLOOR PLAN @ AREA WA

REFERENCE PHOTO 1



REFERENCE PHOTO 2



1) PLUMBING - LOWER LEVEL FLOOR PLAN @ AREA WA 1/8" = 1'-0"

GENERAL DRAWING NOTES

KEY NOTES

CORE DRILLED HOLE.

COORDINATE LOCATION OF NEW FORCED MAIN LINE WITH EXISTING PIPES. ROUTE NEW 2" SANITARY UP THROUGH EXISTING

CONTRACTOR SHALL PHASE DEMOLITION AND NEW WORK SO THAT SUMP PUMP AND FORCED MAIN PIPING IS INSTALLED FIRST

PRIOR TO ABANDONEMENT OF EXISTING SAN LINE. EXISTING LINE SHALL BE VALVED AT NEW CONNECTION AND READY FOR QUICK SWITCH OVER ONCE SUMP IS READY FOR OPERATION.

- A. PLEASE REFER TO SHEET P0.0 FOR PROJECT NOTES, LEGEND, SCHEDULES, & DETAILS
- B. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE EXACT LOCATION OF UTILITIES PRIOR TO CONSTRUCTION

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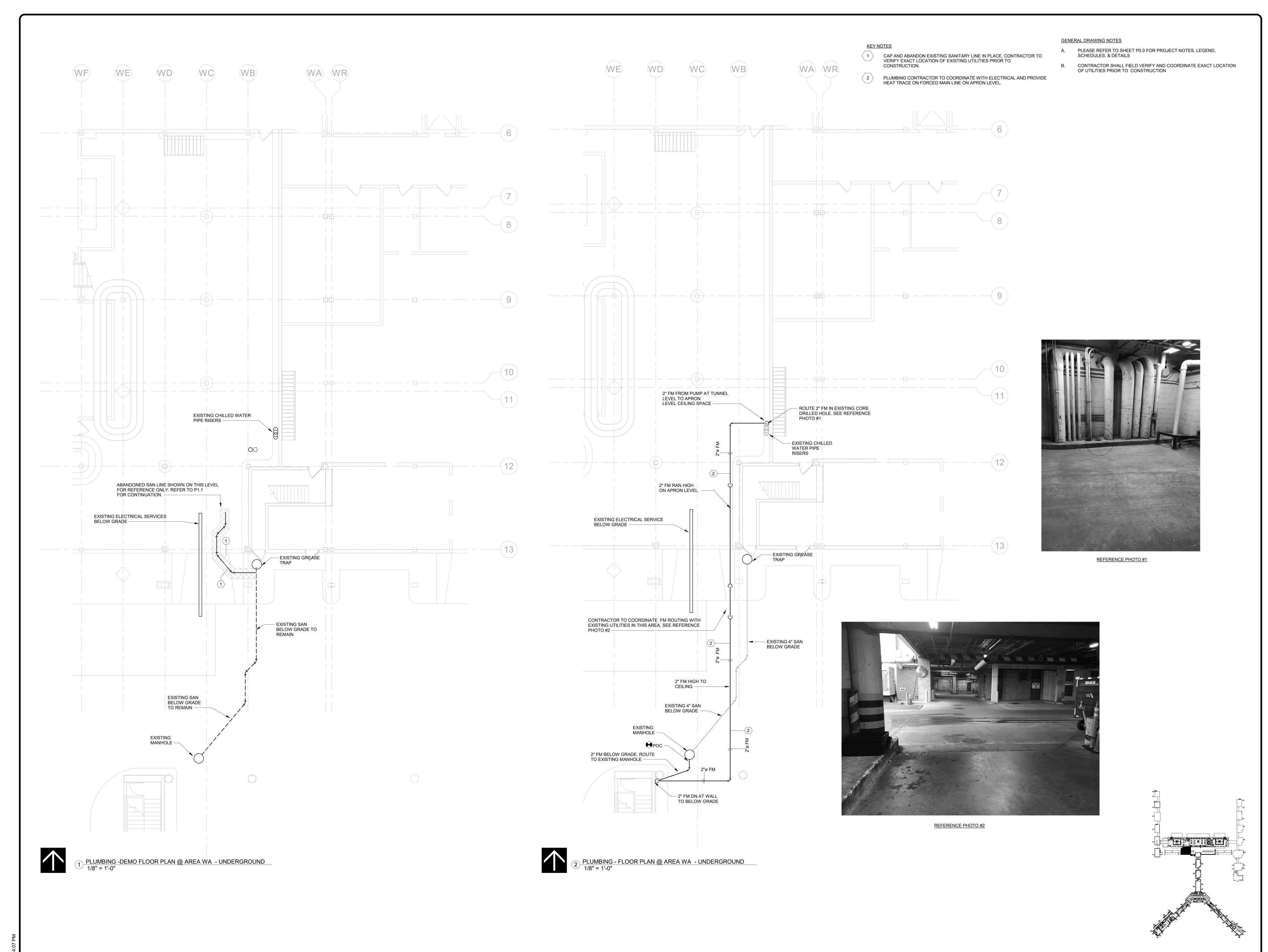
ID OFFICE AND WA AREA SANITARY SEWER REPAIR

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LEVEL PLAN @ AREA WA - UNDERGROUND

4.9.2021 1/8" = 1'-0"

KEYPLAN



INTERNATIONAL AIRPORT
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DRAWN BY:

RJM

CHECKED BY:

JEW

APPROVED BY:

JEW Jimmen

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CAA NO. 19-1423-00 (19-1423-11)

DESCRIPTION DATE

ROJECT:

ID OFFICE AND WA AREA SANITARY SEWER REPAIR

ISSUED FOR BID

T TITLE:

PLUMBING - FIRST FLOOR PLAN @ AREA WA - UNDERGROUND

/T. FILE NAME

ATE
4.9.2021

CALE
1/8" = 1'-0"

			ELECTRICAL LEGEND
		SYMBOL	DESCRIPTION
	SERVICE AND DISTRIBUTION		BASIC MATERIALS
	SWITCHBOARD	1	BRANCH CIRCUIT WIRE & CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING, HOME RUN TO PANELBOARD. A NUMERAL, IF PRESENT AT ARROW HEAD, INDICATES
	DISTRIBUTION PANEL		CIRCUIT NUMBER. ANY BRANCH CIRCUIT SHOWN WITHOUT SLASH MARKS INDICATES A CONDUIT CONTAINING (3) #12 AWG CONDUCTORS (HOT, NEUTRAL &
	BRANCH CIRCUIT PANEL		GROUND). SLASH MARKS, IF PRESENT, INDICATE THE FOLLOWING: HOT (ENERGIZED) CONDUCTOR, NEUTRAL CONDUCTOR, & GROUND CONDUCTOR
Т	TRANSFORMER		WIRE & CONDUIT RUN EXPOSED
Ø	MOTOR CONNECTION		WIRE & CONDUIT RUN IN OR UNDER FLOOR
<u>G</u>	GENERATOR CONNECTION		WINE & CONDON NOW IN ON DEATH ECON
	DISCONNECT SWITCH (FUSED AS REQUIRED)		EXISTING LIGHT FIXTURE OR ELECTRICAL DEVICE MAY BE REMOVED AND/OR RELOCATED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED. UNO, LINE TYPE TYPICAL
F _ N K _ N	MOTOR CONTROLLER (SPECIFIED IN OTHER THAN DIV. 26)	() []	FOR ALL DEVICES TO BE REMOVED AND/OR RELOCATED.
	COMBINATION MOTOR CONTROLLER & DISCONNECT SWITCH (SPECIFIED IN OTHER THAN DIV. 26)		DISCONNECT SWITCH
\otimes	EQUIPMENT NOT FURNISHED UNDER DIV. 26 (SPECIFIED IN OTHER THAN DIV. 26)	J	JUNCTION BOX
M	ELECTRIC METER		
		Sm	MANUAL MOTOR STARTER SWITCH
		\Leftrightarrow	DUPLEX RECEPTACLE IN WALL (NEMA 5-20R)
		GFCI	G.F.I. TYPE DUPLEX RECEPTACLE IN WALL (NEMA 5-20R)
		⊕ _{WP}	G.F.I. TYPE DUPLEX RECEPTACLE OUTDOORS (WEATHERPROOF)
		-	SINGLE 240V RECEPTACLE FOR APPLIANCE OR EQUIPMENT (PER APPLIANCE RATING)
		lacktriangle	POINT OF CONNECTION

ELECTRICAL ABBREVIATIONS

A	DDIKE VIA HONS
SYMBOL	DESCRIPTION
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG AIC	ABOVE FINISHED GRADE AMPERES INTERRUPTING CURRENT
ANN	ANNUNCIATOR
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
СВ	CIRCUIT BREAKER
CKT	CIRCUIT
CLP	CURRENT LIMITING PANEL
CT	CURRENT TRANSFORMER
CU	COPPER
DISC	DISCONNECT
EDF	ELECTRIC DRINKING FOUNTAIN
FAAP	FIRE ALARM ANNUMNICATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
G GFI	GROUND GROUND FAULT CURRENT INTERRUPTE
HP	HORSEPOWER
HZ	HERTZ
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
PF	POWER FACTOR
SOWB UGW	SPACE ONLY WITH BUS UNDERGROUND ELECTRICAL
V	VOLT
V VA	VOLT-AMPERE
VA	VARIABLE FREQUENCY DRIVE
WP	WEATHER PROOF
XFMR	TRNASFORMER
3P	THREE POLE
3PH	THREE PHASE
4W	FOUR WIRE
30/3	30 AMPERE, 3-POLE
	I and the second

CODE ANALYSIS - INTERNATIONAL RUIL DING CODE 2015

ODE ANALYSIS - INTERNATIONAL BUILDING CODE 2015
CODE COMMENTS
IRISDICTION
emphis and Shelby County Construction Code Enforcement
PPLICABLE CODES
15 International Building Code with Local Amendments
15 International Existing Building Code with Local Amendments
15 International Residential Code with Local Amendments
14 National Electrical Code
18 Joint Electrical Code
15 International Mechanical Code with Local Amendments
15 International Fuel Gas Code with Local Amendments
15 International Plumbing Code with Local Amendments
15 International Energy Conservation Code with Local Amendments
09 ICC A117.1 Accessibility and Useable Buildings and Facilities)by reference)
13 ASME 17.1 Safety Code for Elevators and Escalators (by reference)

GENERAL PROJECT NOTES:

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS, NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE STANDARDS AND REGULATIONS ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- 2. ALL ABOVE GROUND EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT WITH CORROSION RESISTANT FITTINGS, CLAMPS AND SUPPORT. INTERIOR EXPOSED CONDUIT ABOVE GROUND SHALL BE EMT.
- 3. IN THE EVENT OF CONFLICTS BETWEEN THE DRAWINGS, SPECIFICATIONS, CODES AND REGULATIONS, NOTIFY

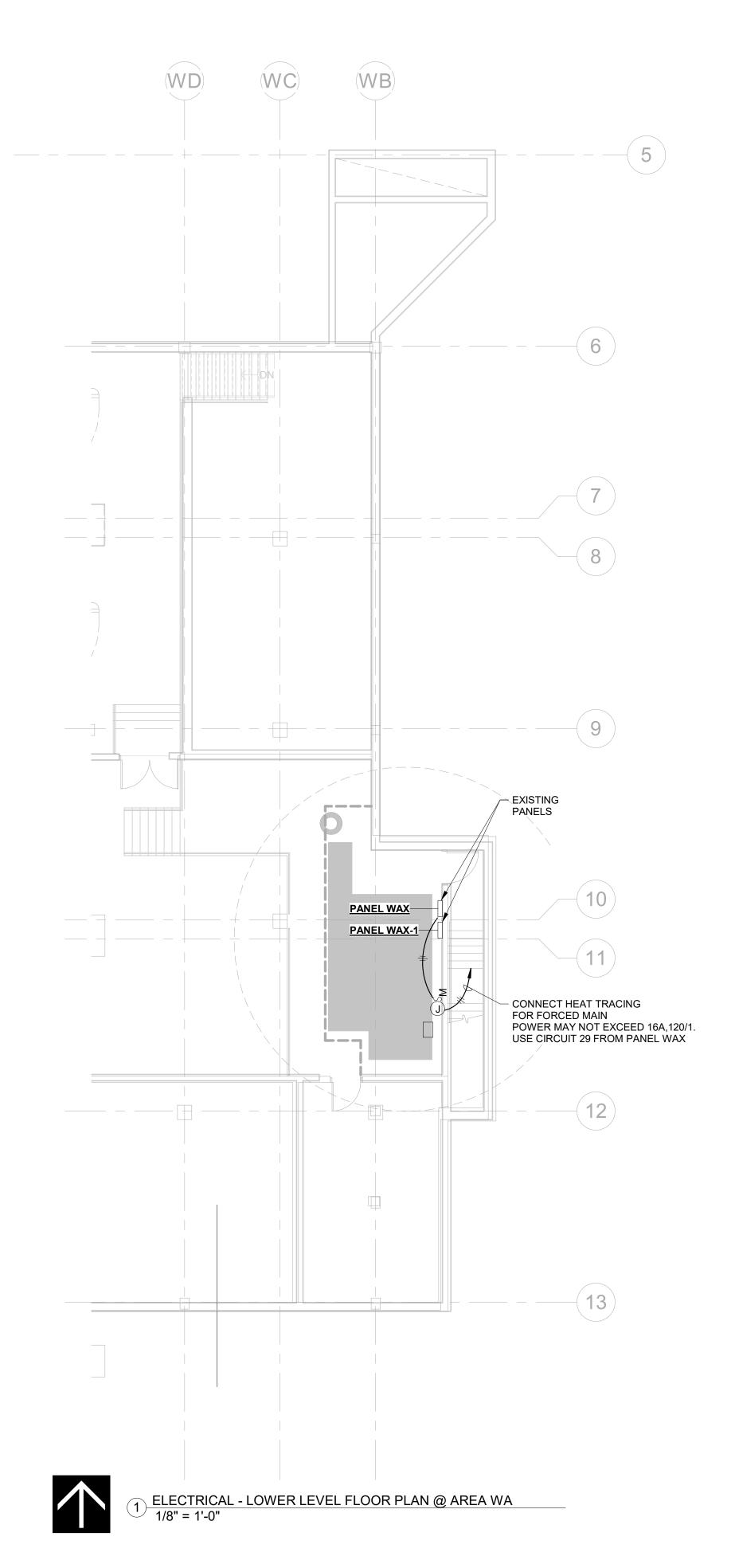
THE ARCHITECT IN WRITING FOR ENGINEER OF RECORD'S OPINION PRIOR TO INSTALLATION.

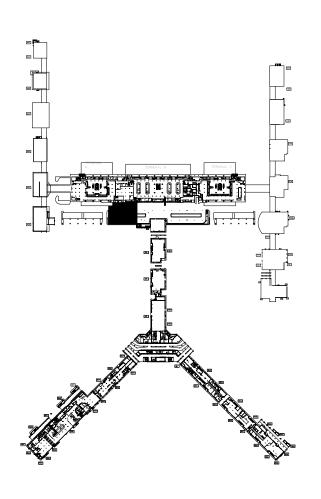
- 4. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL AND TO THE ENGINEER FOR REVIEW.
- SMACNA SEISMIC RESTRAINT MANUAL, THIRD EDITION 2008, OR LATEST REVISION MAY BE USED AS A GUIDE FOR GENERAL SEISMIC SUPPORT DETAIL AND SUPPORT SPACING RECOMMENDATIONS.
- COORDINATE LOCATION OF ALL LIGHTING FIXTURES, MECHANICAL EQUIPMENT AND ACCESS PANELS WITH OTHER DISCIPLINES PRIOR TO ROUGH-IN.
- 7. WHILE GREAT EFFORT HAS BEEN MADE TO IDENTIFY EXISTING CIRCUITS THAT ARE TO BE REMOVED OR REPLACED, THE INFORMATION MAY NOT BE ACCURATE.
- 8. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE AND AMP DRAW FOR ALL NEW EQUIPMENT.

GENERAL DRAWING NOTES

- A. PROVIDE NEW ALARM POINT FROM JCI BAS PANELS TO ALERT MAINTENANCE THAT THE PUMP IS NOT WORKING. PROVIDE AUDIBLE AND VISUAL NOTIFICATION ON APRON LEVEL FOR LIFT STATION FAILURE.
- PROVIDE NEW CIRCUIT FROM SPARE 20/1 BREAKER IN PANEL WAX. USE SPARE CIRCUIT 21 FOR THE NEW SUMP PUMP. PROVIDE NEW 30/1 BREAKER FOR CIRCUIT 29 FOR THE HEAT TRACE CIRCUIT.

C. ELECTRICAL CONTRACTOR TO COORDINATE WITH PLUMBING AND PROVIDE HEAT TRACE ON FORCED MAIN LINE ON APRON LEVEL. PROGRAM MANAGER **PARSONS** PROGRAM MANAGEMENT CONSULTAN PARSONS TRANSPORTATION GROUP INC. PROJECT OFFICE: 4225 AIRWAYS BLVD. MEMPHIS , TN 38116





KEYPLAN

Renaissance

Group 9700 VILLAGE CIRCLE, SUITE 100 LAKELAND, TN 38002 P 901.332.5533 / F 901.332.5534 WWW.RGROUP.BIZ

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DESCRIPTION DATE

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ID OFFICE AND WA AREA SANITARY SEWER REPAIR

ISSUED FOR BID

ELECTRICAL - LOWER LEVEL PLAN @ AREA WA - POWER

4.9.2021