

PARKING ACCESS & REVENUE CONTROL SYSTEM REPLACEMENT AT NEW HAVEN PARKING AUTHORITY FACILITIES

N.H.P.A. PROJECT # 24-029
NEW HAVEN, CONNECTICUT
AUGUST 2025

CONTRACTING AGENCY: NEW HAVEN PARKING AUTHORITY



c/o DEPARTMENT OF PLANNING & ENGINEERING
TEMPLE STREET PARKING GARAGE
ONE TEMPLE STREET
NEW HAVEN, CONNECTICUT 06510
Tel. (203) 946-7526

STRUCTURAL ENGINEER / ARCHITECT: DESMAN



55 CAPITAL BOULEVARD, 4TH FLOOR
ROCKY HILL, CT 06067
Tel. (860) 563-1117

MECH/ELEC. ENGINEERS: SILVER/PETRUCELLI & ASSOCIATES



3190 WHITNEY AVENUE
HAMDEN, CONNECTICUT 06518-2340
Tel. (203) 230-9007

DESMAN

PARKING ACCESS & REVENUE CONTROL SYSTEM REPLACEMENT
AT
NEW HAVEN PARKING AUTHORITY FACILITIES

CONNECTICUT

NEW HAVEN,

SELECTED IMAGES



SCOPE OF WORK

PROPOSAL ITEM 1 - GENERAL PROVISIONS:

- A. GENERAL MOBILIZATION/DEMOBILIZATION/MISCELLANEOUS COORDINATION.
- B. PROVISION OF BONDS, PERMITS, AND INSURANCE.

PROPOSAL ITEM 2 - WORK RELATED TO THE AIR RIGHTS GARAGE, CROWN STREET GARAGE, TEMPLE STREET GARAGE, TEMPLE MEDICAL GARAGE AND 270 STATE STREET GARAGE:

- A. WORK RELATED TO THE AIR RIGHTS PARKING GARAGE.
- B. WORK RELATED TO THE CROWN STREET PARKING GARAGE.
- C. WORK RELATED TO THE TEMPLE STREET PARKING GARAGE.
- D. WORK RELATED TO THE TEMPLE MEDICAL PARKING GARAGE.
- E. WORK RELATED TO THE 270 STATE PARKING GARAGE.
- F. WORK RELATED TO THE GRANITE SQUARE PARKING GARAGE.

PROPOSAL ITEM 3 - WORK RELATED TO THE UNION STATION PARKING GARAGE:

PROPOSAL ITEM 4 - WORK RELATED TO THE UNDER AIR RIGHTS SURFACE LOT, ORANGE ELM SURFACE LOT, STATE WALL SURFACE LOT, STATE FAIR SURFACE LOT, STATE TRUMBULL SURFACE LOT, STATE PULASKI SURFACE LOT, AND WHALLEY BLAKE SURFACE LOT:

- A. WORK RELATED TO THE UNDER AIR RIGHTS SURFACE LOT.
- B. WORK RELATED TO THE ORANGE ELM SURFACE LOT.
- C. WORK RELATED TO THE STATE WALL SURFACE LOT.
- D. WORK RELATED TO THE STATE FAIR SURFACE LOT.

- E. WORK RELATED TO THE STATE TRUMBULL SURFACE LOT.
- F. WORK RELATED TO THE STATE PULASKI SURFACE LOT.
- G. WORK RELATED TO THE WHALLEY BLAKE SURFACE LOT.

PROPOSAL ITEM 5 - REFURBISHMENT OF BOOTHS

- A. WORK RELATED TO THE AIR RIGHTS PARKING GARAGE.
- B. WORK RELATED TO THE CROWN STREET PARKING GARAGE.
- C. WORK RELATED TO THE TEMPLE STREET PARKING GARAGE.
- D. WORK RELATED TO THE TEMPLE MEDICAL PARKING GARAGE.
- E. WORK RELATED TO THE 270 STATE PARKING GARAGE.
- F. WORK RELATED TO GRANITE SQUARE PARKING GARAGE.
- G. WORK RELATED TO THE UNION STATION PARKING GARAGE.
- H. WORK RELATED TO THE UNDER AIR RIGHTS SURFACE LOT.
- I. ALLOWANCE FOR REPAIRS TO THE DUCTWORK.

DRAWING INDEX

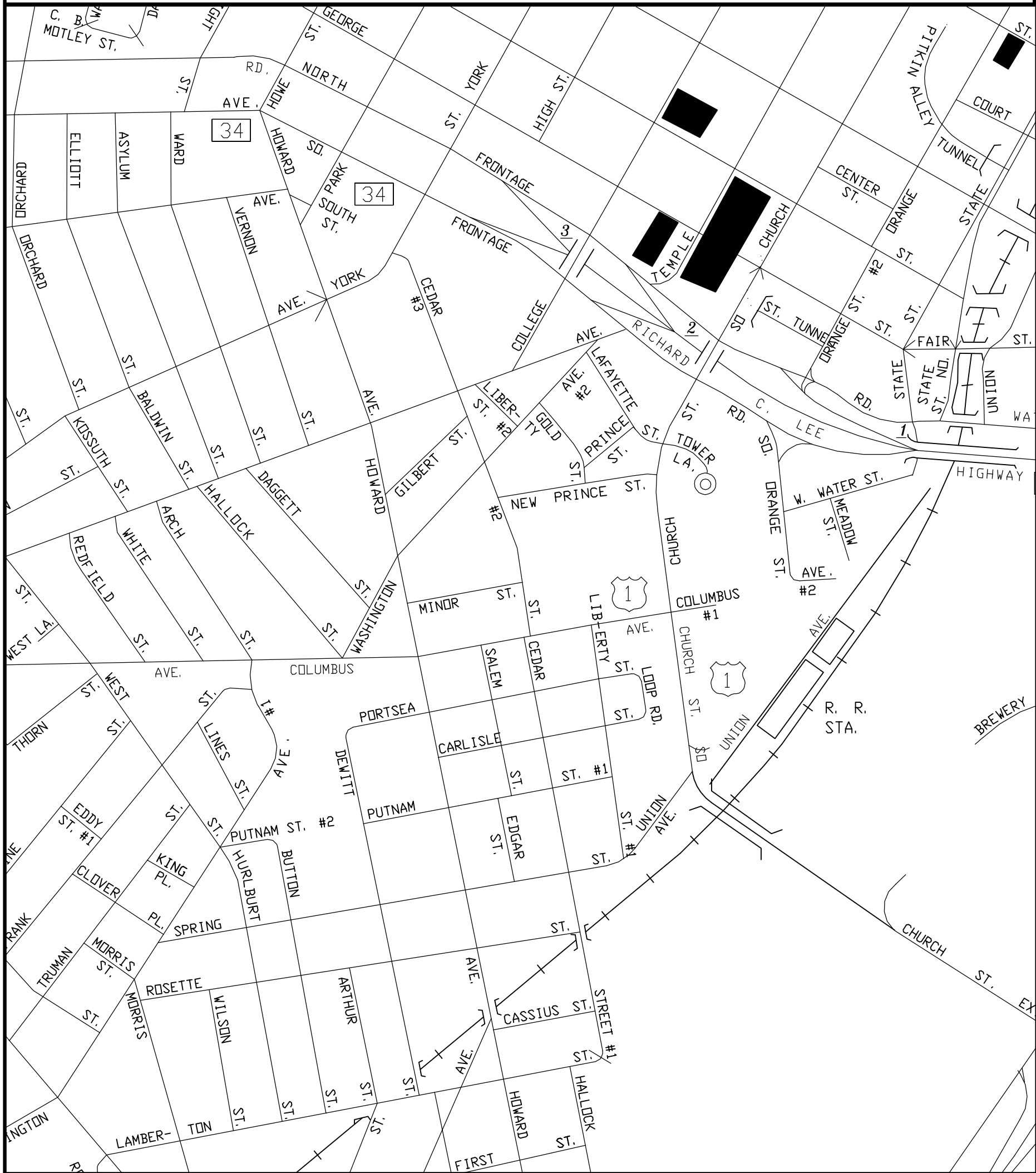
R-0	TITLE SHEET
R-1.1	SITE PLANS
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R-1.4	SITE PLANS
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GENERAL NOTES

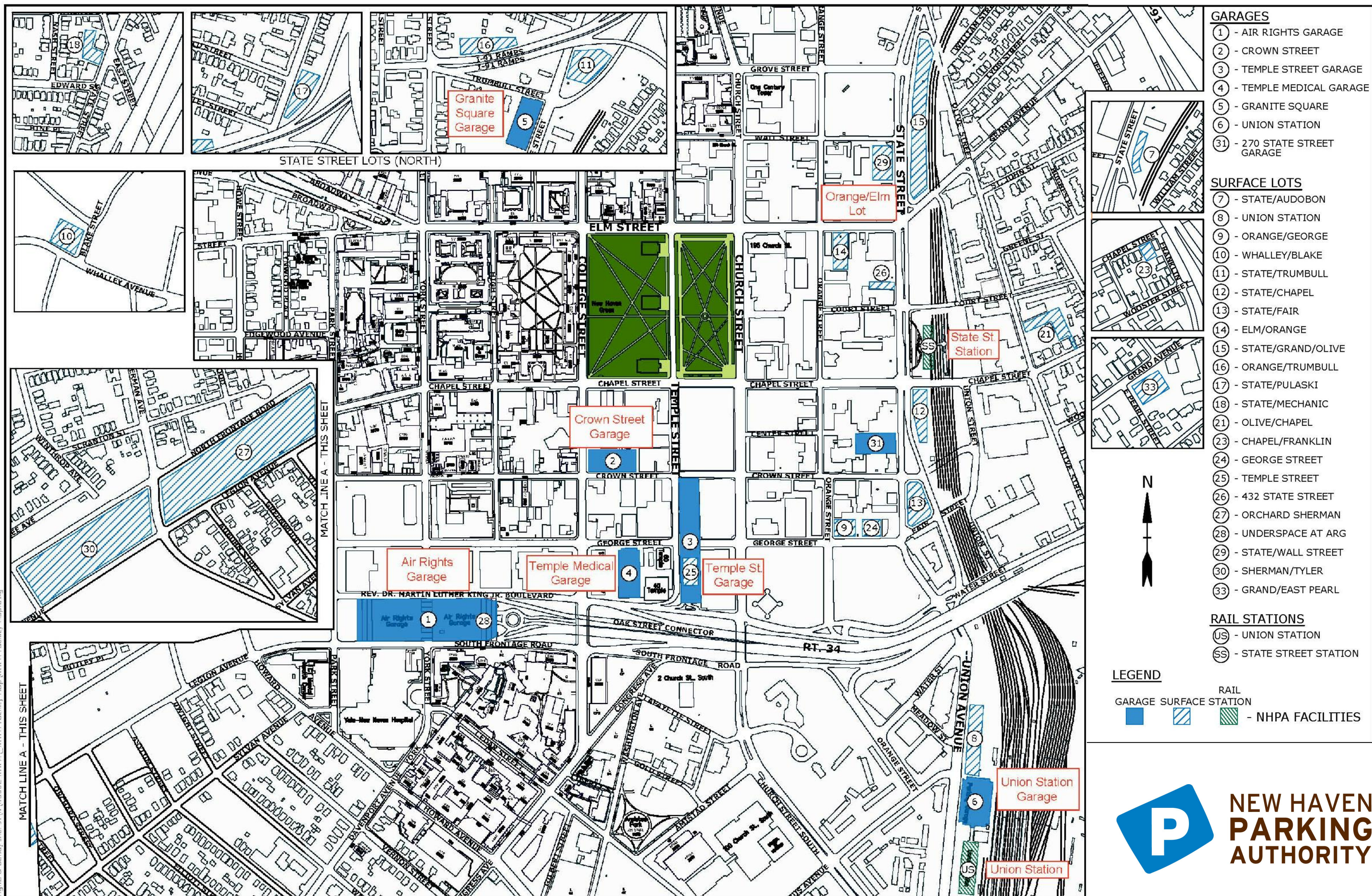
THE FOLLOWING NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON PLANS OR SPECIFICATIONS:

- ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE APPLICABLE LOCAL AND STATE BUILDING CODES.
- CONTRACTOR IS INSTRUCTED NOT TO SCALE DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS WITH EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL REPORT IMMEDIATELY TO THE ENGINEER ANY DISCREPANCIES OR INCORRECT INFORMATION WITH RESPECT TO THE DRAWINGS BASED ON EXISTING CONDITIONS. AFTER REPORTING THESE DISCREPANCIES VERBALLY THE CONTRACTOR SHALL SUBMIT A WRITTEN REPORT (WITH DRAWINGS/SKETCHES, AS REQUIRED) IMMEDIATELY FOR THE ENGINEERS REVIEW. CONTRACTOR SHALL BE DIRECTED BY THE ENGINEER REGARDING THE CHANGES, AND FURTHER ACTION IF AND AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE AND IMPLEMENT ALL NECESSARY STAGING PLANS SHOWING METHODS AND EQUIPMENT FOR PROTECTING THE GENERAL PUBLIC, GARAGE, ADJACENT BUILDINGS AND LOTS, EQUIPMENT, MATERIALS AND PERSONNEL FROM FIRE AND OTHER DAMAGES. THESE MEASURES SHALL BE IN PLACE PRIOR TO START OF WORK. METHODS AND EQUIPMENT SHOWN IN THE STAGING PLANS ARE SUBJECT TO APPROVAL BY AUTHORITIES HAVING JURISDICTION PRIOR TO ISSUANCE OF THE BUILDING PERMIT. FIRE PROTECTION AND PREVENTION DURING THE CONSTRUCTION PERIOD SHALL BE IN ACCORDANCE WITH ALL LAWS AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, THE LATEST N.F.P.A. REGULATIONS, OSHA REGULATIONS, OSHA REQUIREMENTS, THE STATE OF CONNECTICUT AND THE CITY OF NEW HAVEN REGULATIONS AND ORDINANCES.
- THE CONTRACTOR SHALL COMPLY WITH ALL SAFETY AND HEALTH LAWS AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, THE PROVISIONS AND REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (AS AMENDED) OR THE CONSTRUCTION SAFETY ACT OF 1969 (AS AMENDED); WHICHEVER IS APPLICABLE. THE CONTRACTOR SHALL COMPLY WITH ALL THE MOST RECENT APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION OVER THE PROJECT IN ORDER TO PROTECT PERSONS AND/ OR PROPERTY FROM DAMAGE, INJURY OR LOSS. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION; INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING THE OWNER, TENANTS, PATRONS AND USERS OF ADJACENT FACILITIES. THE CONTRACTOR SHALL ALSO ASSURE THAT ALL HIS SUBCONTRACTORS CONFORM TO ALL HEALTH AND SAFETY LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING AND SHEETING REQUIRED FOR SAFETY AND PROPER EXECUTION OF THE WORK.
CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF SHOP DRAWINGS, DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE CONNECTICUT, FOR ANY SPECIALIZED SHORING, ETC. WHICH MAY BE REQUIRED. DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY OF NEW HAVEN BUILDING DEPARTMENT FOR APPROVAL.
- WHEN PLANS AND SPECIFICATIONS INCLUDE INFORMATION PERTAINING TO SURFACE OBSERVATIONS, MATERIAL TESTING AND OTHER PRELIMINARY INVESTIGATIONS, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATIONS, CHARACTER, OR QUANTITY OF THE MATERIALS OR CONDITIONS ENCOUNTERED AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE OWNER/ENGINEER ASSUMES NO RESPONSIBILITY WHATSOEVER WITH RESPECT OF THE SUFFICIENCY OR ACCURACY OF THE INFORMATION, AND THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS INDICATED ARE REPRESENTATIVE OF THOSE EXISTING THROUGHOUT THE WORK, OR THAT UNANTICIPATED DEVELOPMENTS MAY NOT OCCUR AND/OR EXIST.
- ANY EXTRA WORK BEYOND THE SCHEDULED QUANTITIES REQUIRING EXTRA COST TO THE OWNER SHALL BE APPROVED BY THE OWNER PRIOR TO COMMENCING SAID WORK. CLAIMS FOR EXTRA WORK WHICH HAVE NOT BEEN AUTHORIZED IN WRITING BY THE OWNER AND APPROVED BY THE ENGINEER WILL BE REJECTED AND THE CONTRACTOR SHALL NOT BE ENTITLED TO PAYMENT.
- THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDITIONS TO DETERMINE ALL SERVICES WHICH MIGHT BE AFFECTED BY THE WORK. THE CONTRACTOR SHALL MAKE NECESSARY TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SERVICES TO ALL AREAS OF THE BUILDING OR OTHER AREAS NOT IN THE CONTRACT AFFECTED BY THE WORK. UPON COMPLETION OF REPAIRS THE CONTRACTOR SHALL MAKE PERMANENT CONNECTIONS TO ALL SERVICES WHICH HAD BEEN TEMPORARILY MAINTAINED.
- ANY UTILITY LINES ABANDONED OR NO LONGER IN SERVICE THAT WOULD INTERFERE WITH THE PROJECT SHALL BE IDENTIFIED BY THE CONTRACTOR AND REMOVED FROM THE REPAIR AREAS BY THE CONTRACTOR, UNLESS NOTED OTHERWISE, PRIOR TO START OF WORK.
- ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER/OWNER A COMPREHENSIVE TRAFFIC CONTROL PLAN PRIOR TO STARTING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AS WELL AS FOR THE PROVISION OF ALL REQUIRED TRAFFIC CONTROL DEVICES, WARNING LIGHTS AND SIGNAGE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AASHTO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR SHALL ALSO PROVIDE EXTRA-DUTY POLICE OFFICERS TO DIRECT TRAFFIC AS MAY BE REQUIRED BY OBSTRUCTION PERMITS.
- THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE ON A DAILY BASIS AND PROTECT MATERIALS AND WORK IN PROGRESS FROM VANDALISM.

SITE MAP



SITE LOCATION PLAN



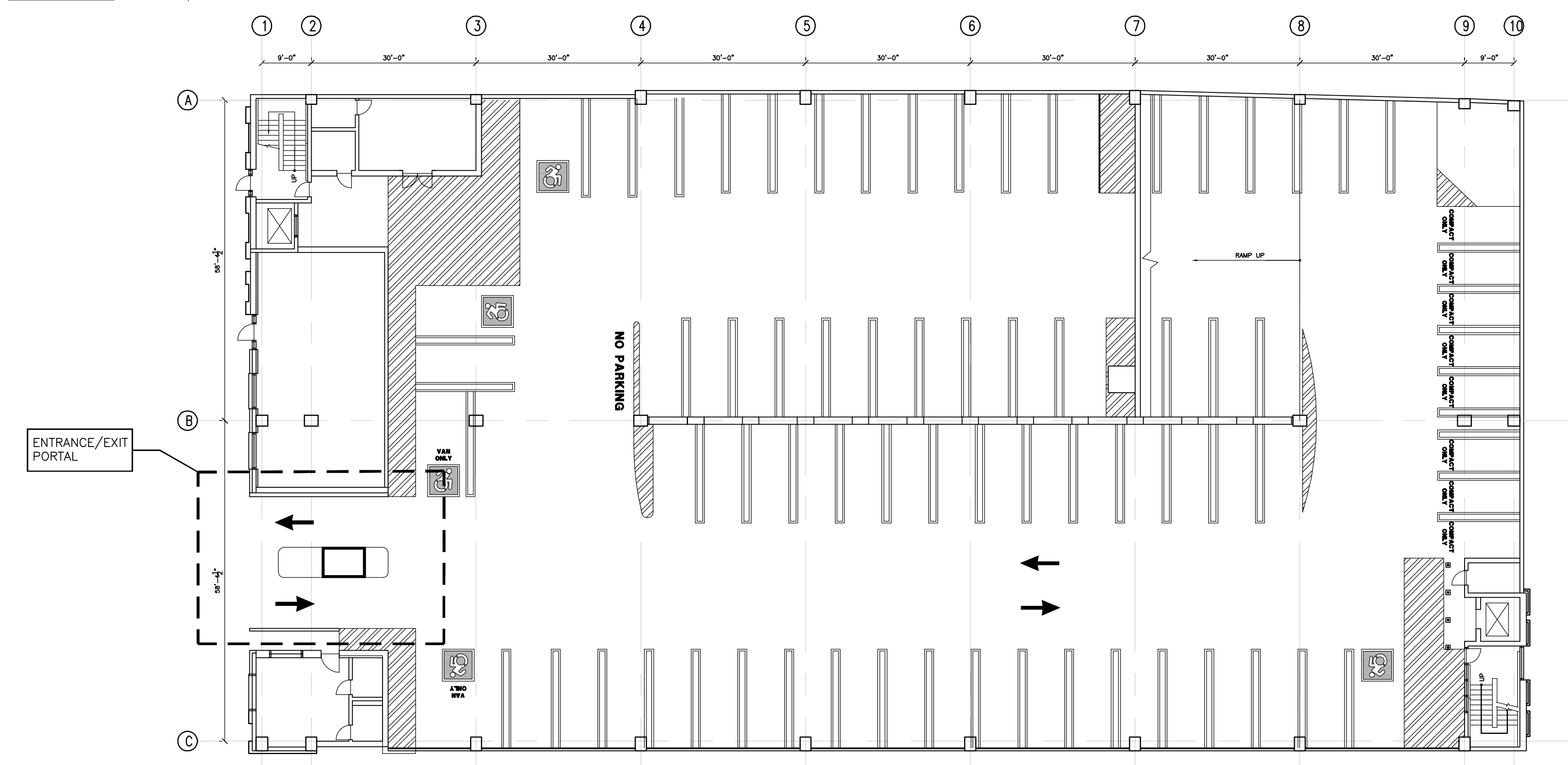
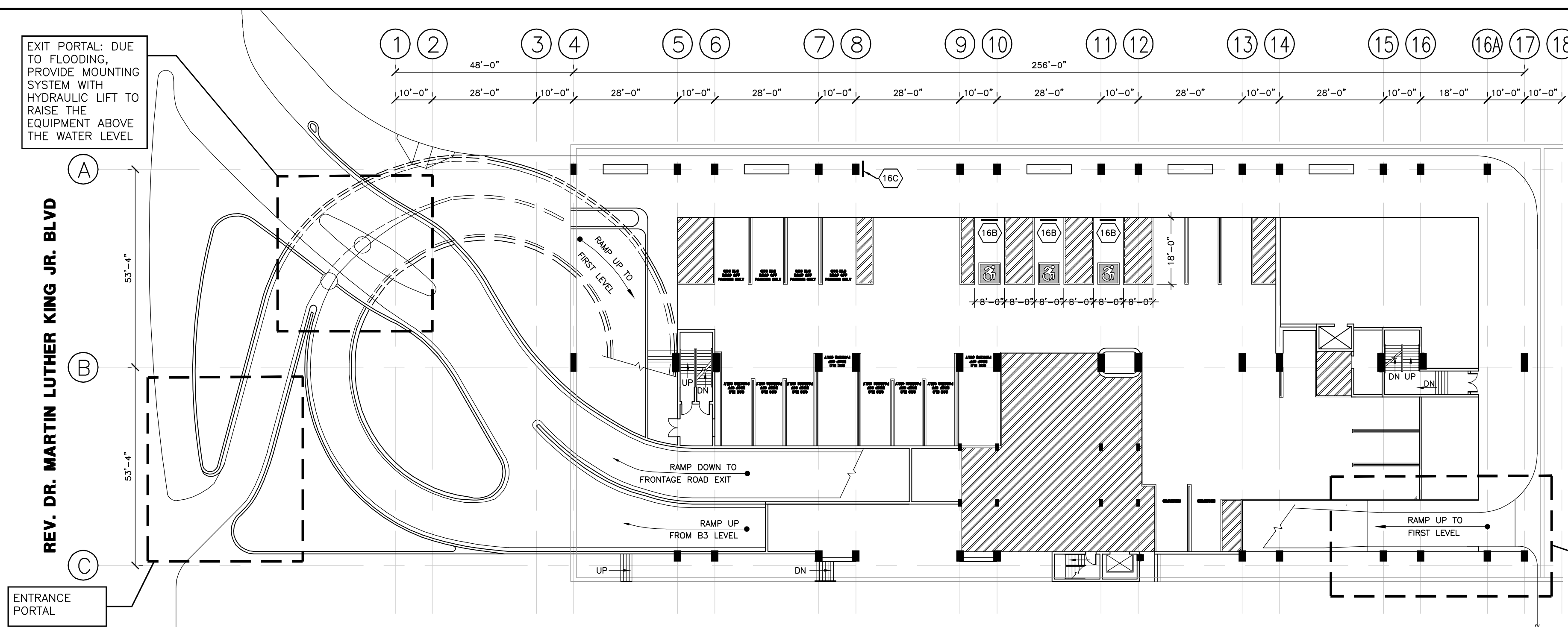
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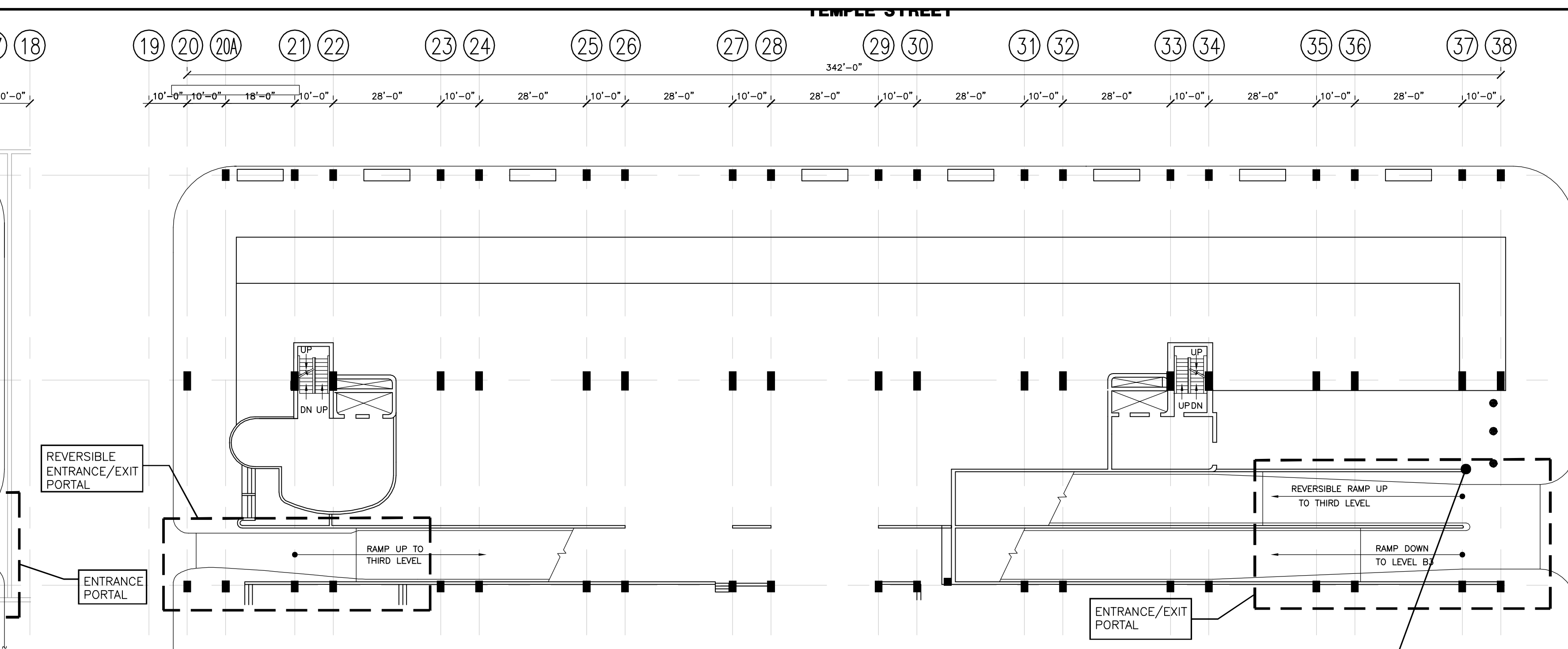
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SCALE: AS NOTED
DATE: AUGUST 2025
PROJECT NO. 20-24150.00-2
NHPA NO. 24-029
DESIGN K.D.S.
DRAWN K.D.S.
CH'KD. K.D.S.

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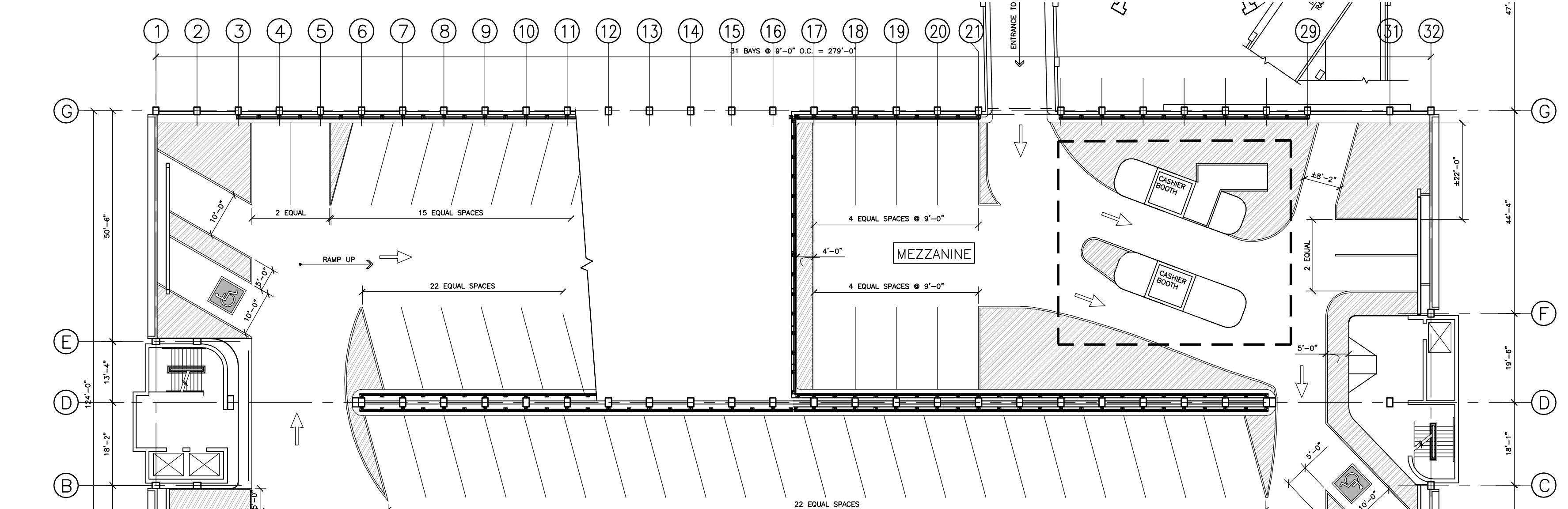
270 STATE STREET GARAGE, GROUND LEVEL FLOOR PLAN
SCALE: N.T.S.



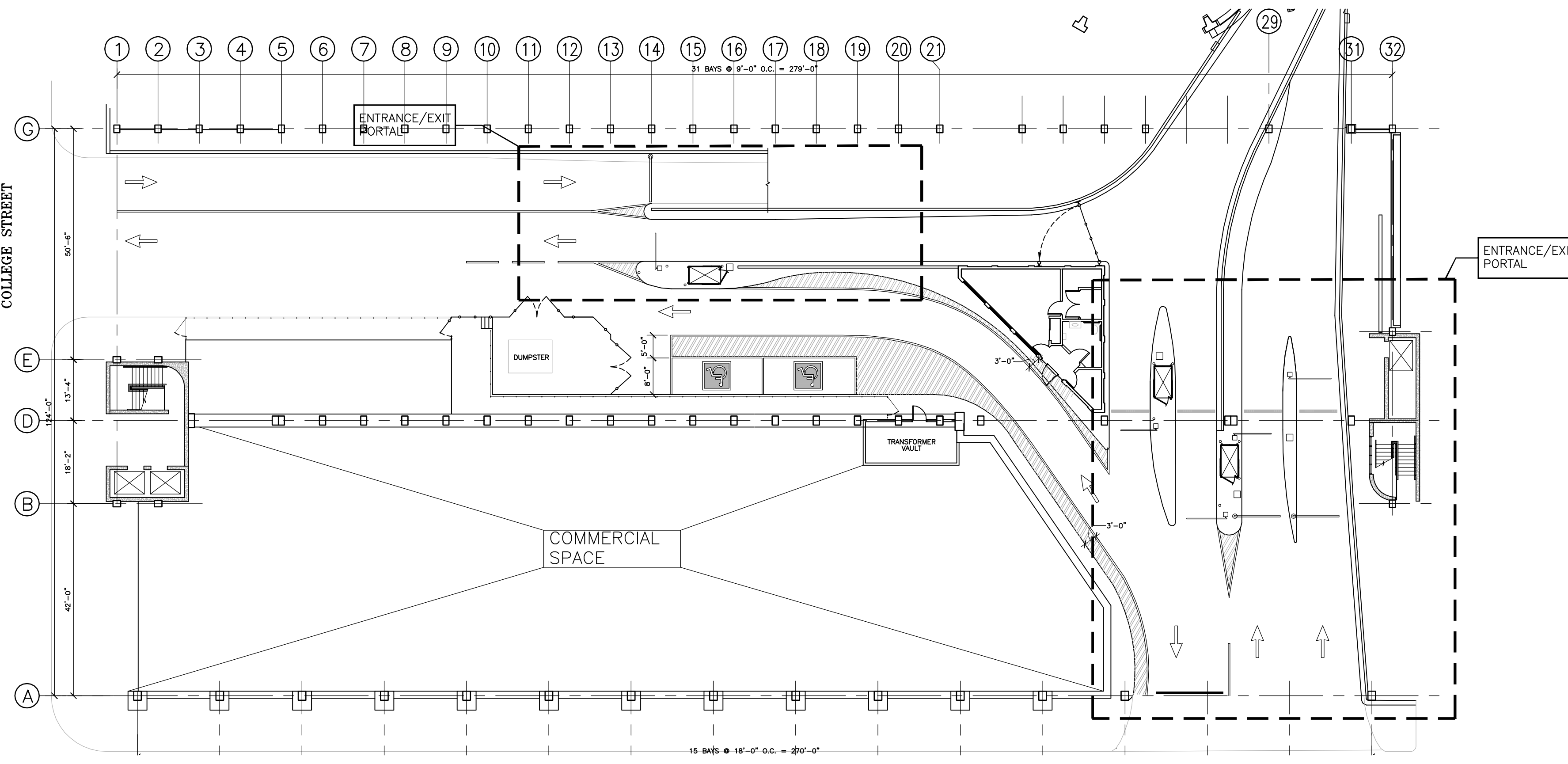
TEMPLE STREET GARAGE, GROUND PARTIAL FLOOR PLAN
SCALE: N.T.S.



REPLACE CONDUIT & WIRING WITH NEW CONDUIT AND WIRING; RE-ROUTE THE CONDUIT DOWN THROUGH THE FLOOR SLAB, ALONG THE SOFFIT, AND UP AGAIN AS REQUIRED; CONTRACTOR SHALL COORDINATE WITH THE ENGINEER ACCORDINGLY



CROWN STREET GARAGE, MEZZANINE FLOOR PLAN
SCALE: N.T.S.



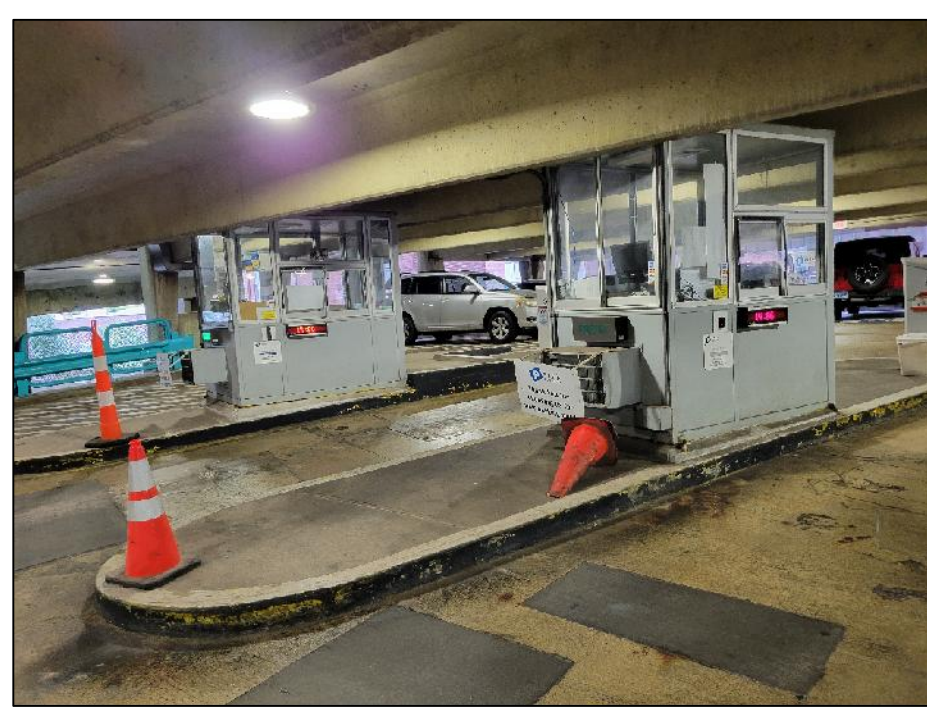
CROWN STREET GARAGE, GROUND LEVEL FLOOR PLAN
SCALE: N.T.S.



VIEW OF ENTRANCE/EXIT TO CROWN STREET (CROWN STREET GARAGE)
SCALE: N.T.S.



VIEW OF ENTRANCE/EXIT TO CROWN STREET (CROWN STREET GARAGE)
SCALE: N.T.S.



VIEW OF MEZZANINE (CROWN STREET GARAGE)
SCALE: N.T.S.



VIEW OF EXIT TO M.L.K. BOULEVARD (TEMPLE STREET GARAGE)
SCALE: N.T.S.



VIEW OF ENTRANCE/EXIT (270 STATE STREET GARAGE)
SCALE: N.T.S.



VIEW OF ENTRANCE/EXIT (270 STATE STREET GARAGE)
SCALE: N.T.S.

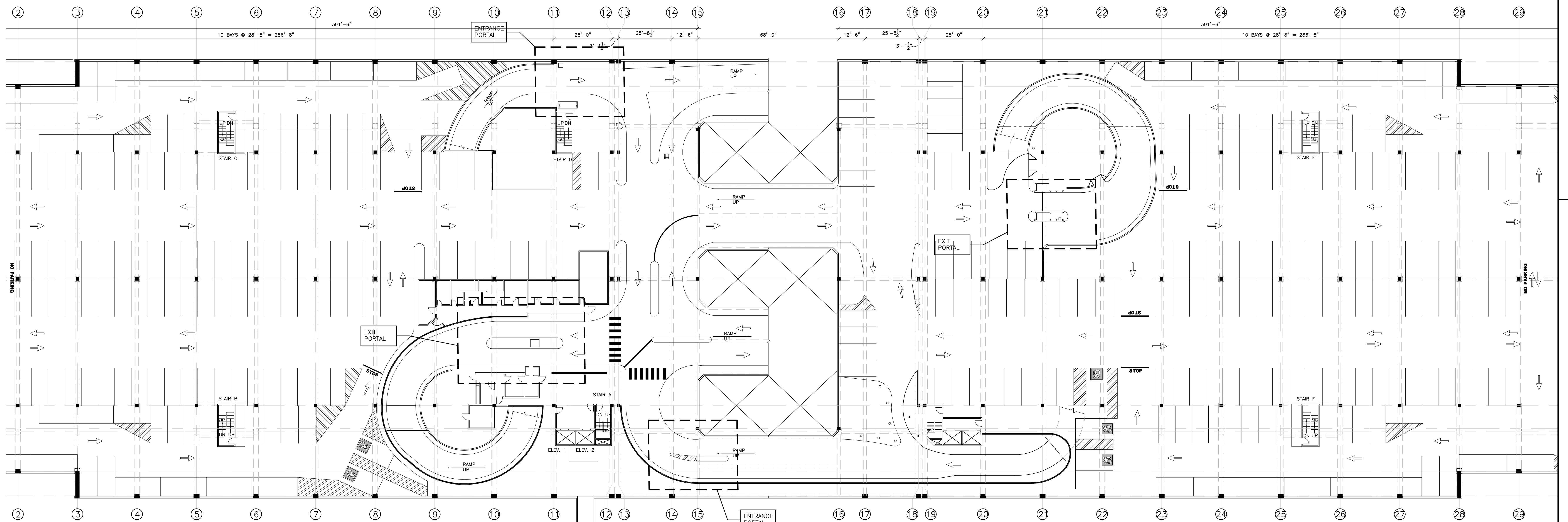
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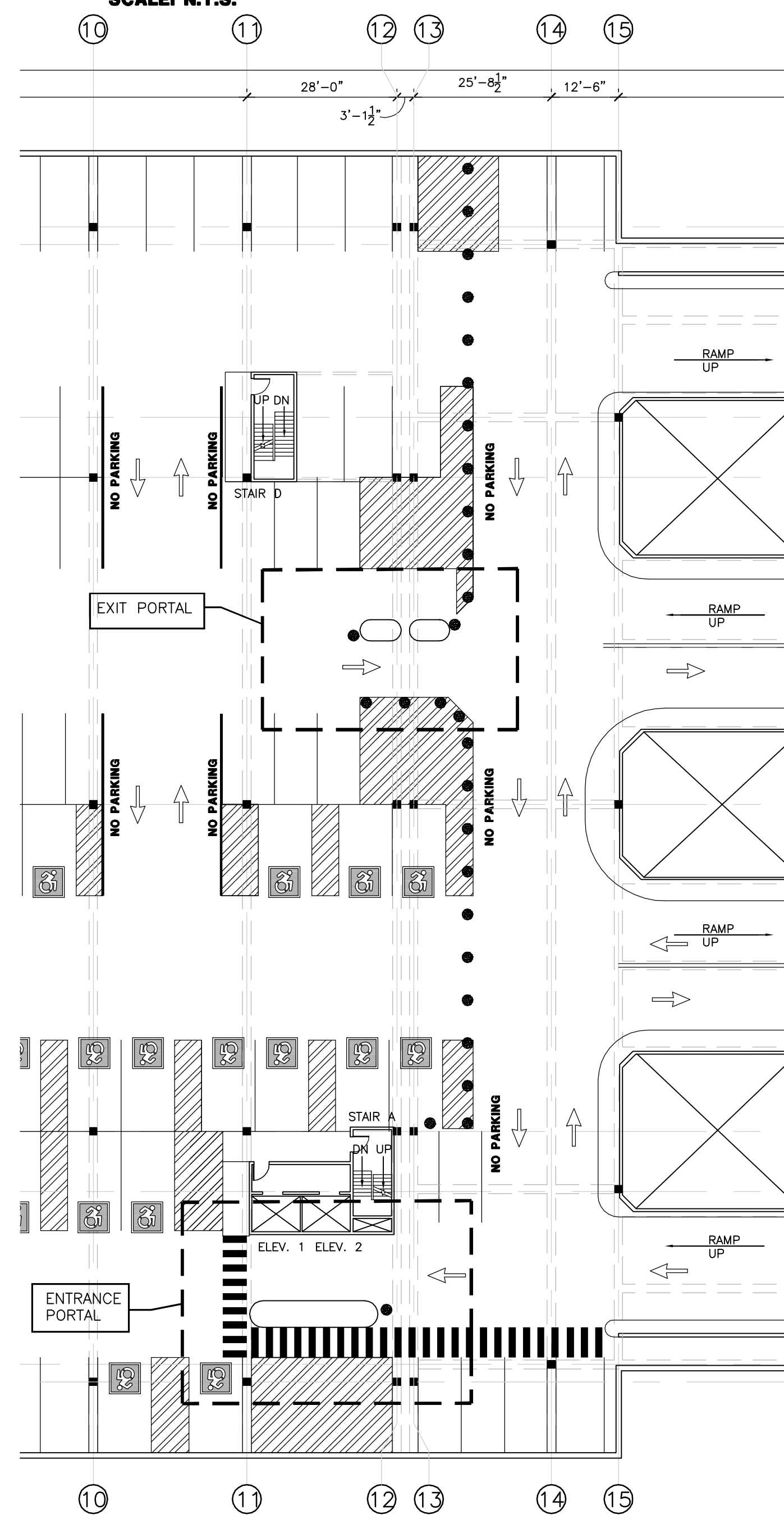
PARKING ACCESS & REVENUE CONTROL SYSTEM REPLACEMENT
AT
NEW HAVEN PARKING AUTHORITY FACILITIES

NEW HAVEN,

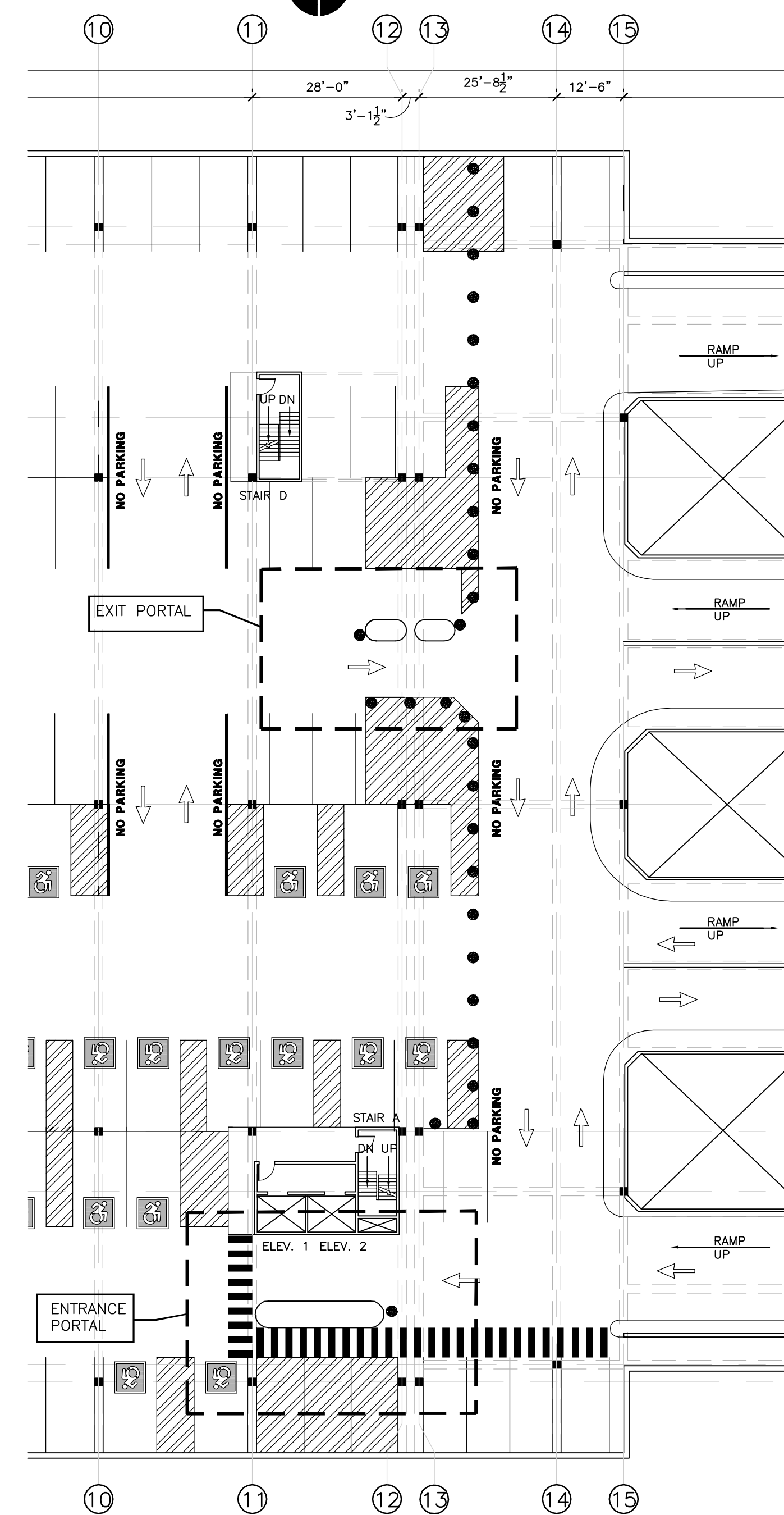
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NHFA NO. 24-029		
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K.D.S.	K.D.S.	K.D.S.
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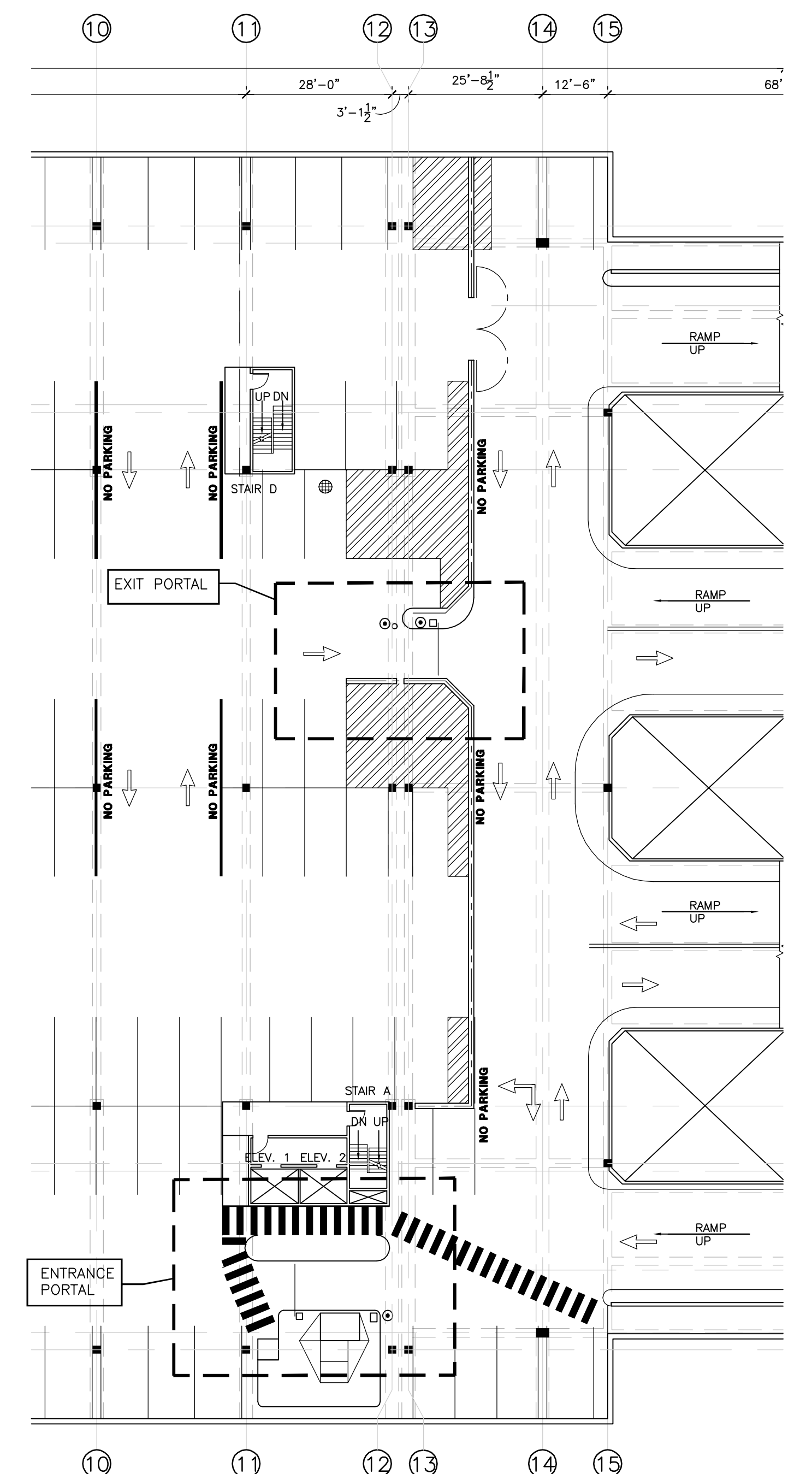
AIR RIGHTS GARAGE, LEVELS 1 & 2 FLOOR PLANS
SCALE: N.T.S.



LEVEL 8 FLOOR PARTIAL PLAN
SCALE: N.T.S.



LEVEL 6 FLOOR PARTIAL PLAN
SCALE: N.T.S.

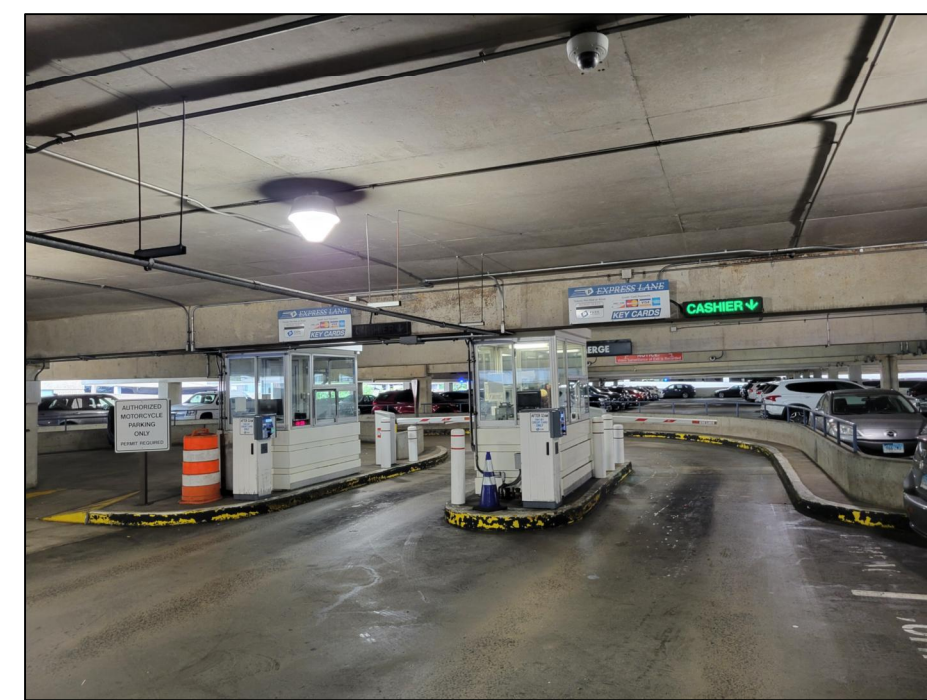


LEVEL 4 FLOOR PARTIAL PLAN
SCALE: N.T.S.



**VIEW OF EXIT TO M.L.K. BOULEVARD
(AIR RIGHTS GARAGE)**

1
R-1.2 SCALE: N.T.S.



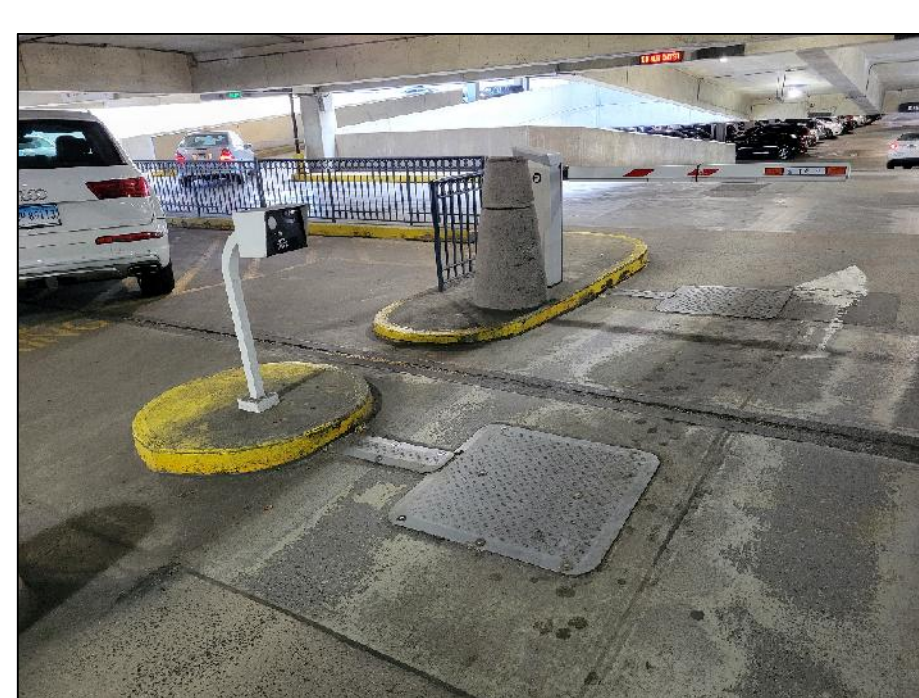
**VIEW OF EXIT TO SOUTH FRONTAGE
ROAD/RT 34 (AIR RIGHTS GARAGE)**

2
R-1.2 SCALE: N.T.S.



**VIEW OF ENTRANCE TO LEVEL 4
(NESTED PARKING)
(AIR RIGHTS GARAGE)**

3
R-1.2 SCALE: N.T.S.



**VIEW OF EXIT FROM LEVEL 4
(NESTED PARKING)
(AIR RIGHTS GARAGE)**

4
R-1.2 SCALE: N.T.S.

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**PARKING ACCESS & REVENUE CONTROL SYSTEM REPLACEMENT
AT
NEW HAVEN PARKING AUTHORITY FACILITIES**

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R-1.2

SCALE: AS NOTED

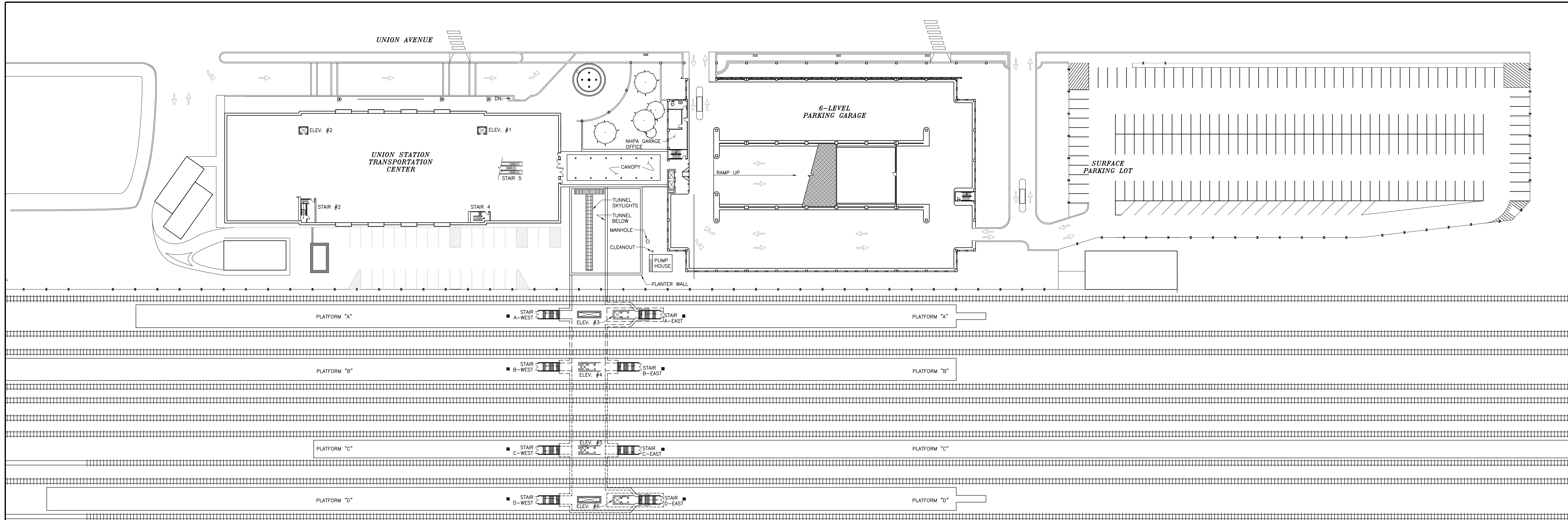
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PROJECT NO. 20-24150.00-2

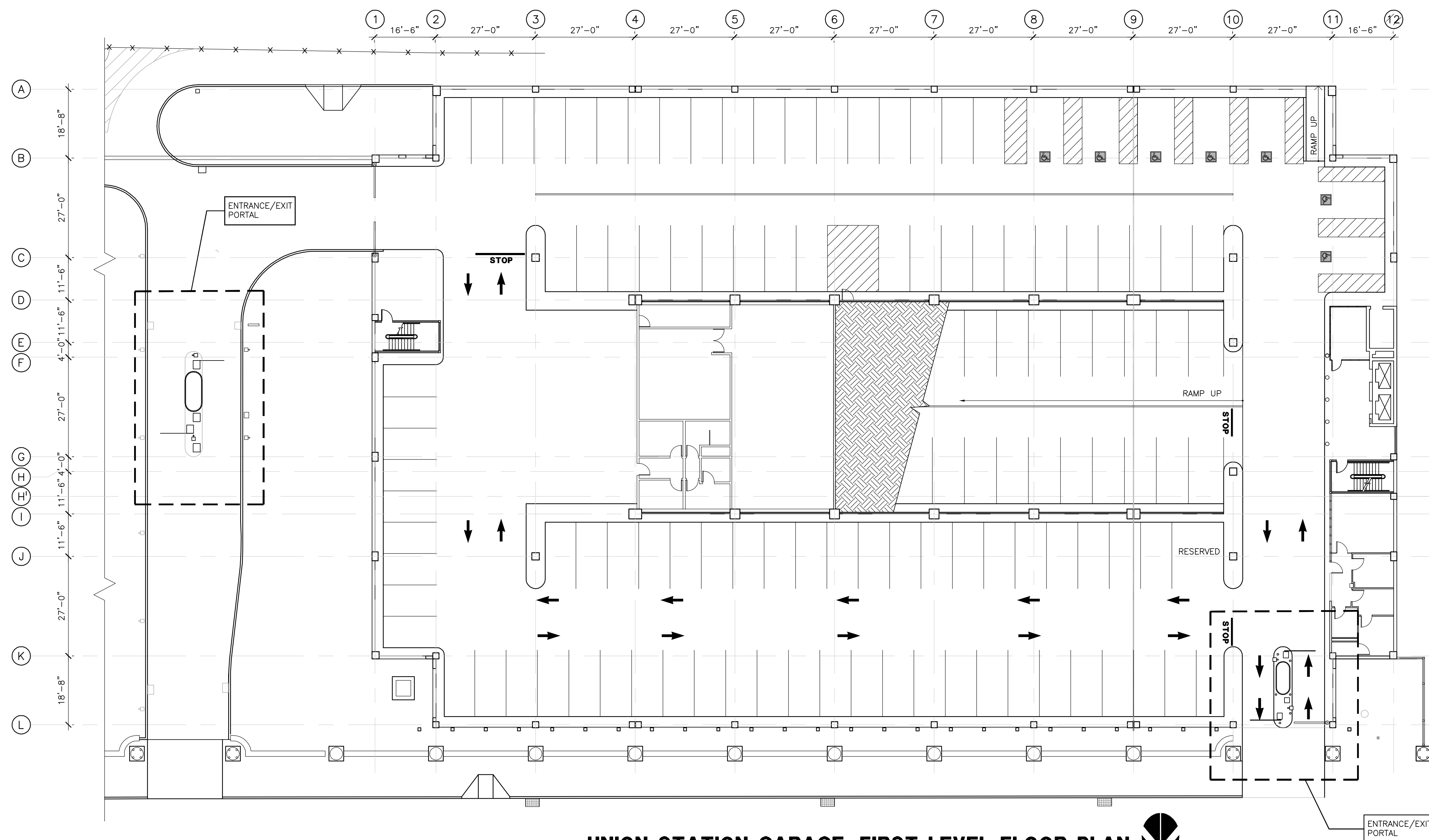
NHPA NO. 24-029

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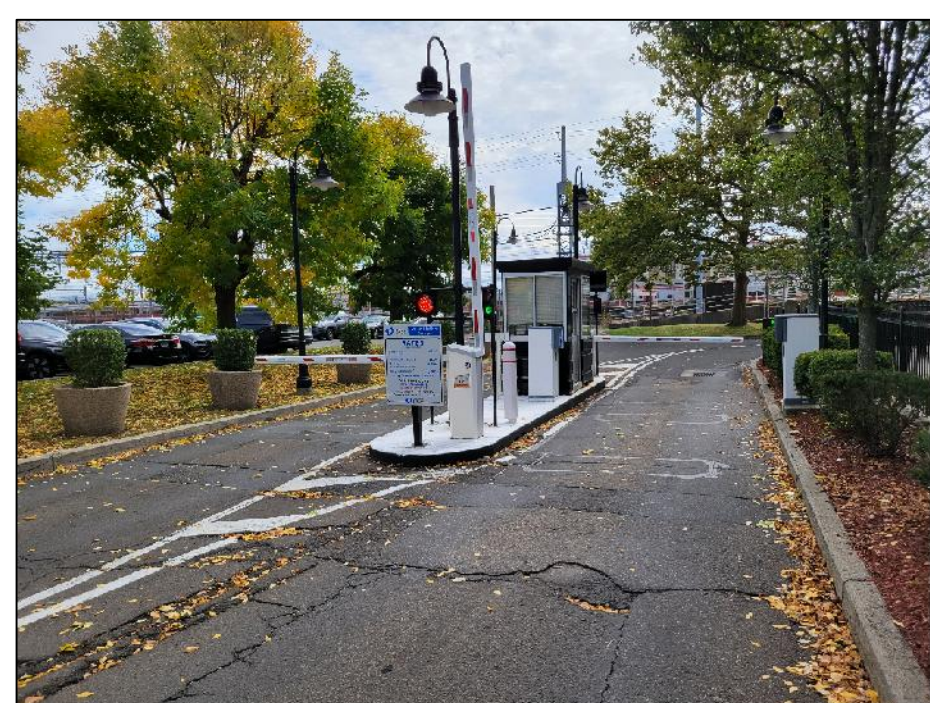
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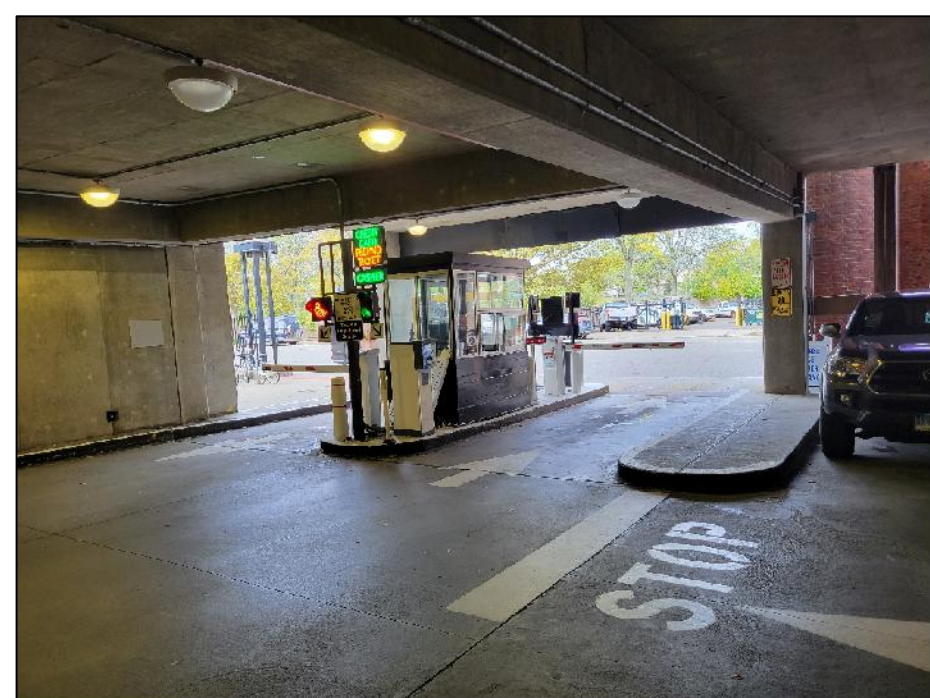
UNION STATION CAMPUS SITE PLAN
SCALE: N.T.S.



UNION STATION GARAGE, FIRST LEVEL FLOOR PLAN
SCALE: N.T.S.



VIEW OF ENTRANCE/EXIT FROM UNION AVENUE
1
R-1.3 SCALE: N.T.S.



VIEW OF ENTRANCE/EXIT FROM UNION AVENUE
2
R-1.3 SCALE: N.T.S.

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PARKING ACCESS & REVENUE CONTROL SYSTEM REPLACEMENT
AT
NEW HAVEN PARKING AUTHORITY FACILITIES
NEW HAVEN, CONNECTICUT

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SITE PLANS

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R-1.3

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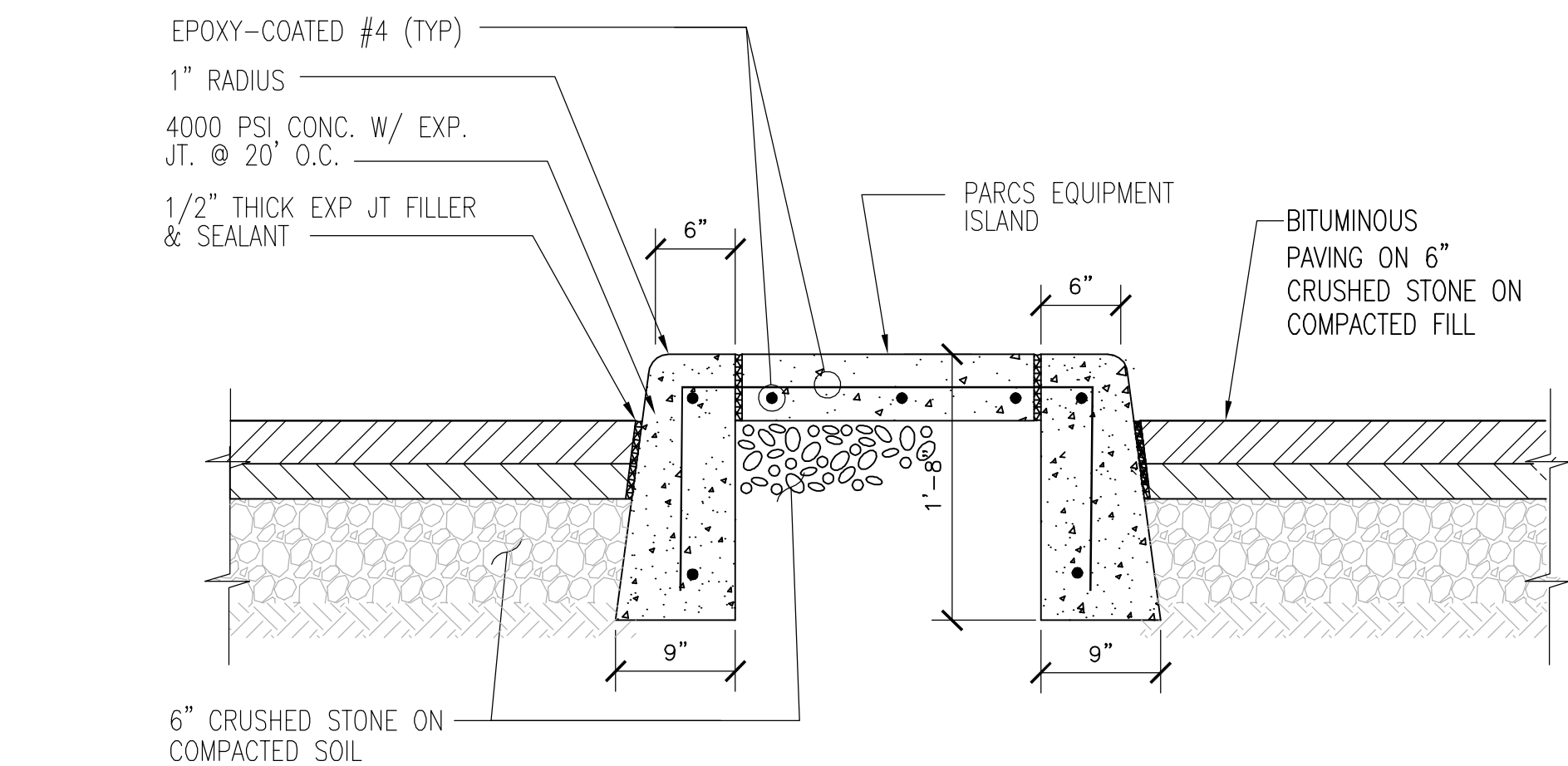
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PROJECT NO. 20-24150.00-2

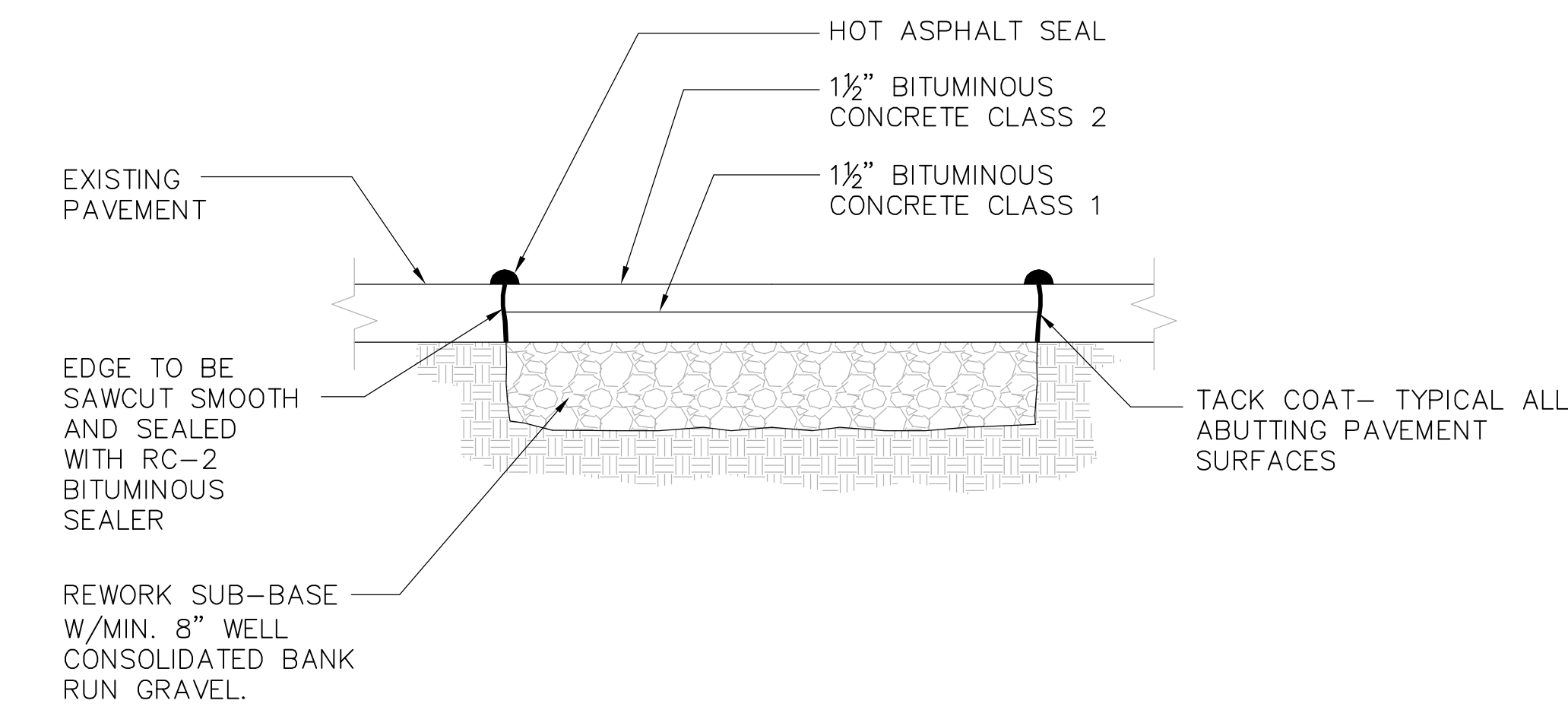
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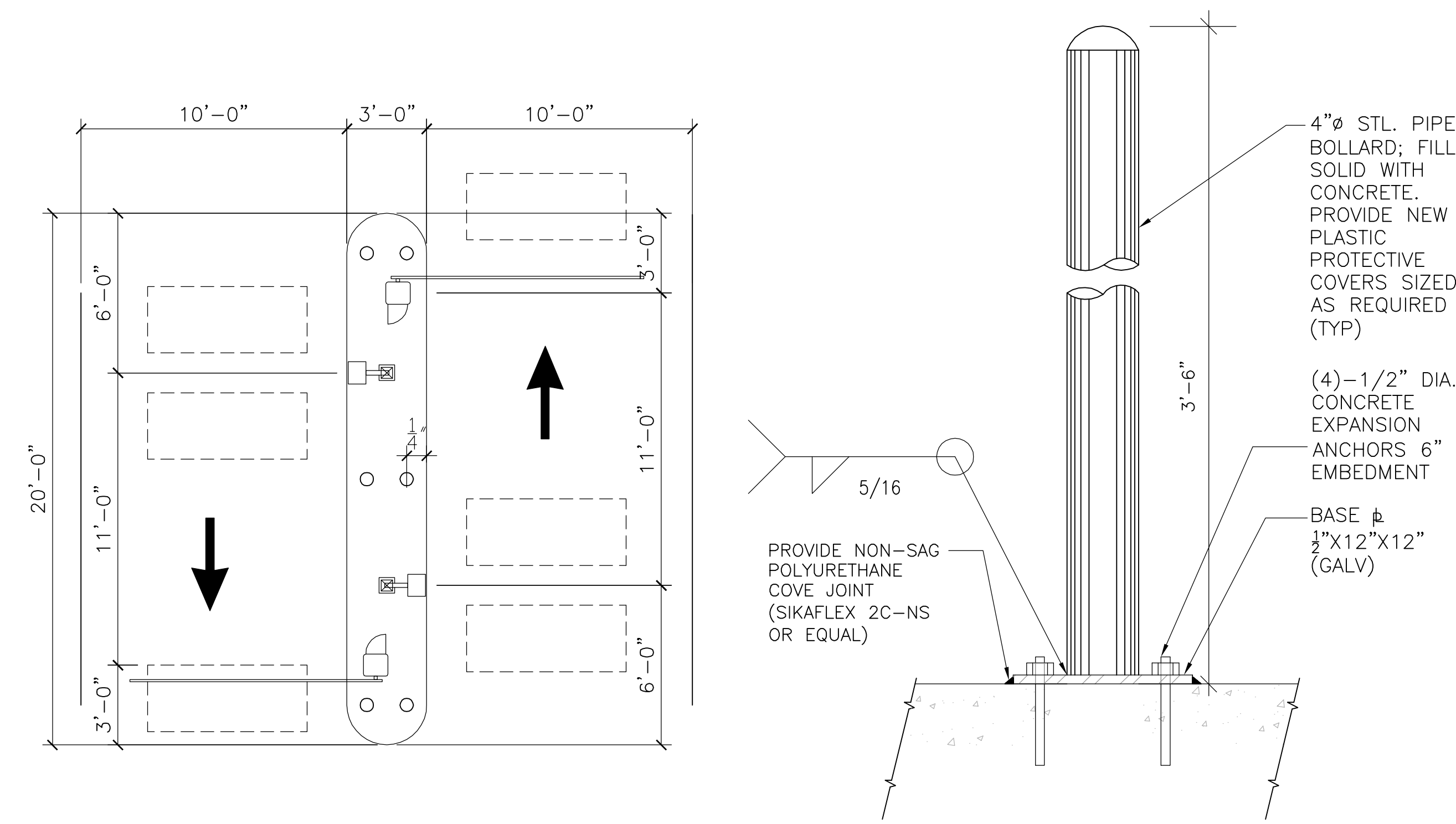
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A SECTION: CONCRETE ISLAND/CURBING
R-1.4 SCALE: N.T.S.



B MISC. BITUMINOUS CONCRETE PAVEMENT REPAIR
R-1.4 SCALE: N.T.S.



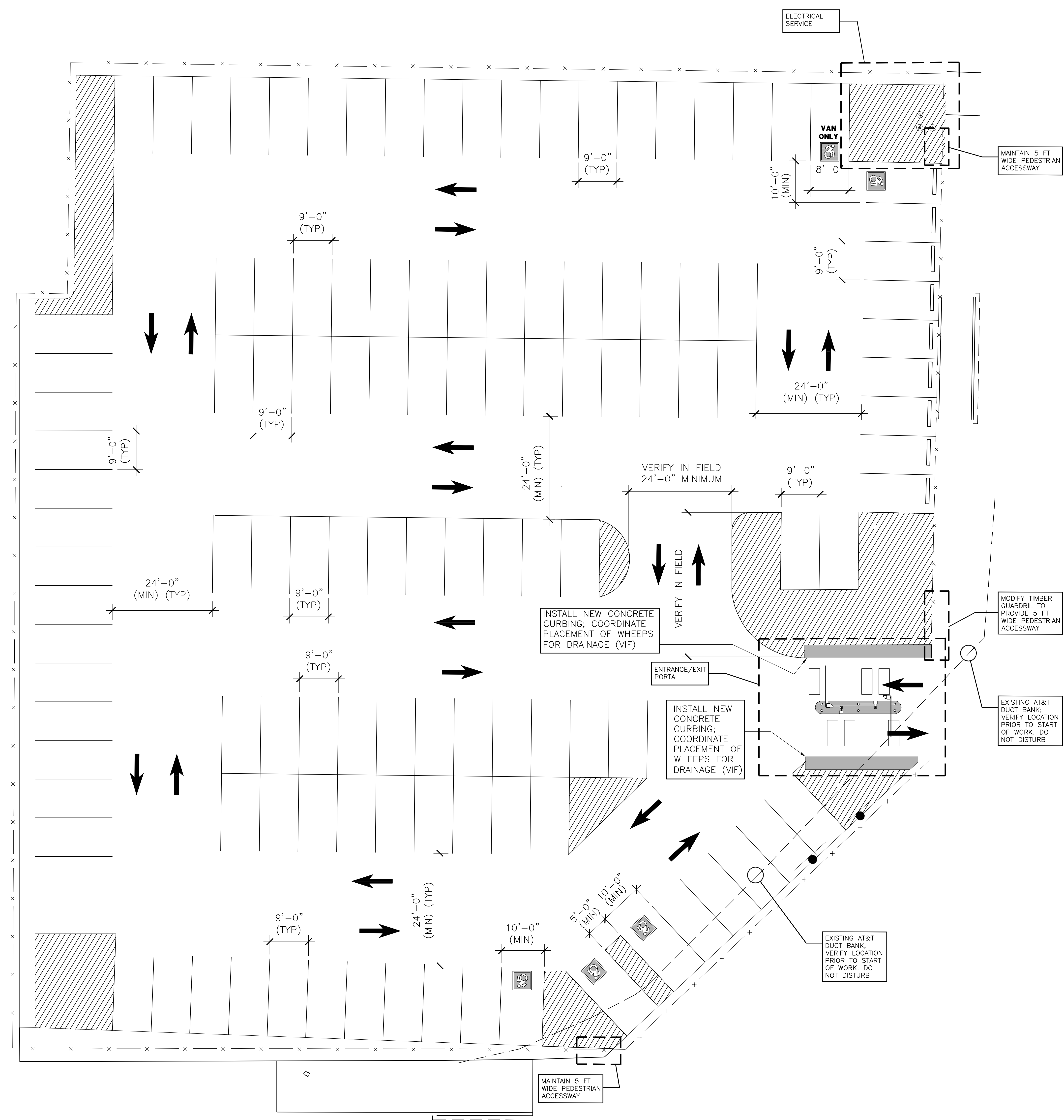
C BOLLARD INSTALLATION @ CURBING
R-1.4 SCALE: N.T.S.

PARTIAL PLAN - EQUIPMENT LAYOUT (TYP)
SCALE: N.T.S.

NOTES:

- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONFIGURATIONS IN FIELD, NOTING THAT CERTAIN REVISIONS ARE ANTICIPATED AS SHOWN AND FURTHER ADJUSTMENTS MAY BE REQUIRED AS DIRECTED BY THE OWNER/ENGINEER. STRIPING LAYOUT SHALL MAINTAIN A MINIMUM OF STALL DIMENSIONS AS DEPICTED ON THE STRIPING PLANS.
- STRIPING COLORS SHALL BE AS FOLLOWS; VERIFY ALL IN THE FIELD:
 - CURB PERIMETER (NO PAINT)
 - HANDICAP STALLS (WHITE WITH BLUE HC LOGO)
 - HANDICAP CROSSWALKS, CROSSHATCHING (WHITE W/ RETRO REFLECTIVE BEADS)
 - TRAFFIC CONTROL ARROWS (WHITE W/ RETRO. REFLECTIVE BEADS)
 - PEDESTRIAN CROSSWALKS, CROSSHATCHING (WHITE W/ RETRO.REFLECTIVE BEADS)
 - STALL STRIPING AND LEGENDS (WHITE, VERIFY IN FIELD)
 - NO PARKING CROSSHATCHING (WHITE W/ RETRO. REFLECTIVE BEADS)

4 HANDICAP PARKING STALLS
1 HANDICAP VAN PARKING SPACE
117 STANDARD PARKING SPACES
122 TOTAL PARKING SPACES



STATE-WALL PARKING LOT
SCALE: N.T.S.

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NEW HAVEN, CONNECTICUT

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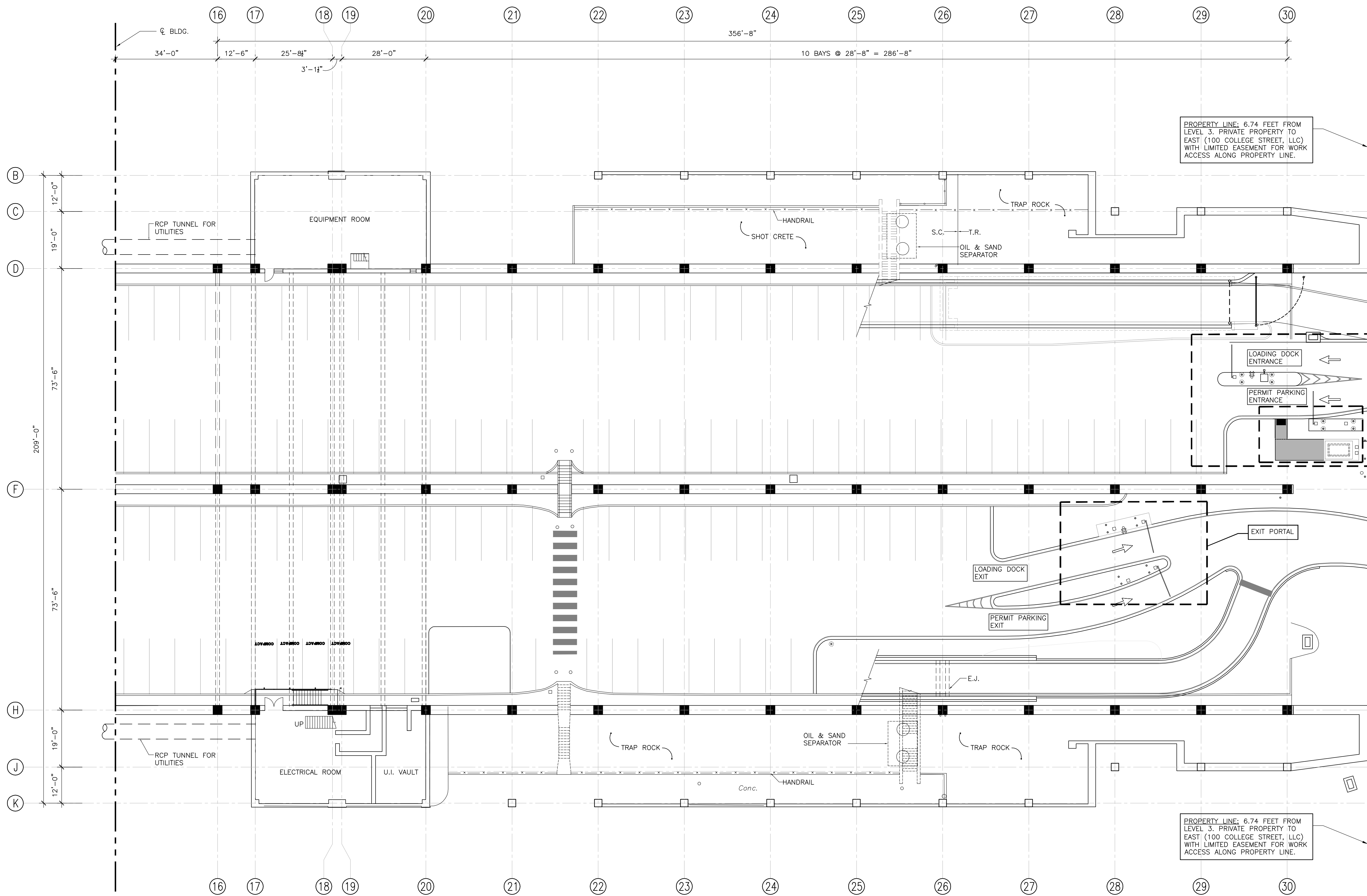
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**UNDER AIR RIGHTS GARAGE LOT
HIGHWAY LEVEL FLOOR PLAN (EAST)**
SCALE: N.T.S.

- NOTES:
1. 100 AMP SINGLE PHASE 12 CIRCUIT LOAD CENTER w/ MAIN BKR.
 2. 115V DUPLEX, 230V OUTLET
 3. 115V QUAD OUTLET
 4. SURFACE MOUNTED LED LIGHT w/ SWITCH
 5. PHONE / DATA JACK w/ CONDUIT & PULL RUN
 6. 208V, 9,900 BTU C - 11,600 BTU H THRU WALL HVAC
 7. 22" DEEP STANDARD PAINTED STEEL SHELF

- NOTES:
1. NEW BOOTH SHALL HAVE ELECTRICAL REQUIREMENTS AS SHOWN. FINAL LOCATIONS OF OUTLETS SHALL BE CONFIRMED WITH OWNER/ENGINEER DURING SUBMITTAL PHASE.
 2. FINAL LOCATIONS OF PHONE/DATA JACKS SHALL BE CONFIRMED WITH OWNER/ENGINEER DURING SUBMITTAL PHASE.
 3. BOOTH SHALL BE PAINTED WHITE. COLOR SAMPLE SHALL BE PROVIDED TO OWNER/ENGINEER FOR CONFIRMATION PRIOR TO START OF WORK.
 4. CONTRACTOR SHALL COORDINATE PLACEMENT OF ALL CONDUIT WITH BOOTH MANUFACTURER. ADDITIONAL CONDUIT MAY BE REQUIRED DUE TO PLACEMENT OF PARKING EQUIPMENT.

5. NEW BOOTH SHALL BE INSTALLED IN DESIGNATED LOCATION. FOLLOWING FINAL PLACEMENT, CONTRACTOR SHALL PROVIDE A NON-SAG COVE JOINT ALL AROUND THE NEW BOOTHS (SIKAFLEX 2C-NS OR APPROVED EQUAL).
6. CONTRACTOR SHALL CONFIRM ALL REQUIRED DOOR CLEARANCES FOR PROPER FUNCTIONALITY. CONTRACTOR SHALL CONFIRM PLACEMENT OF ASSOCIATED EQUIPMENT PRIOR TO INSTALLATION OF EQUIPMENT IN ORDER TO CONFIRM APPLICABLE CLEARANCES, AS APPROVED BY ENGINEER.
7. ANY DAMAGE TO THE PARKING EQUIPMENT DUE TO CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT NO COST TO OWNER.

ACCEPTABLE MANUFACTURER:

PORTA-KING BUILDING SYSTEMS
4133 SHORELINE DRIVE
EARTH CITY, MISSOURI 63045

TEL: (314) 291-4200

BOOTH MODEL SHALL BE ADA-COMPLIANT DURASTEEL MODEL PC-DA75SW. CONTRACTOR SHALL CONFIRM ALL BOOTH REQUIREMENTS PRIOR TO START OF WORK.

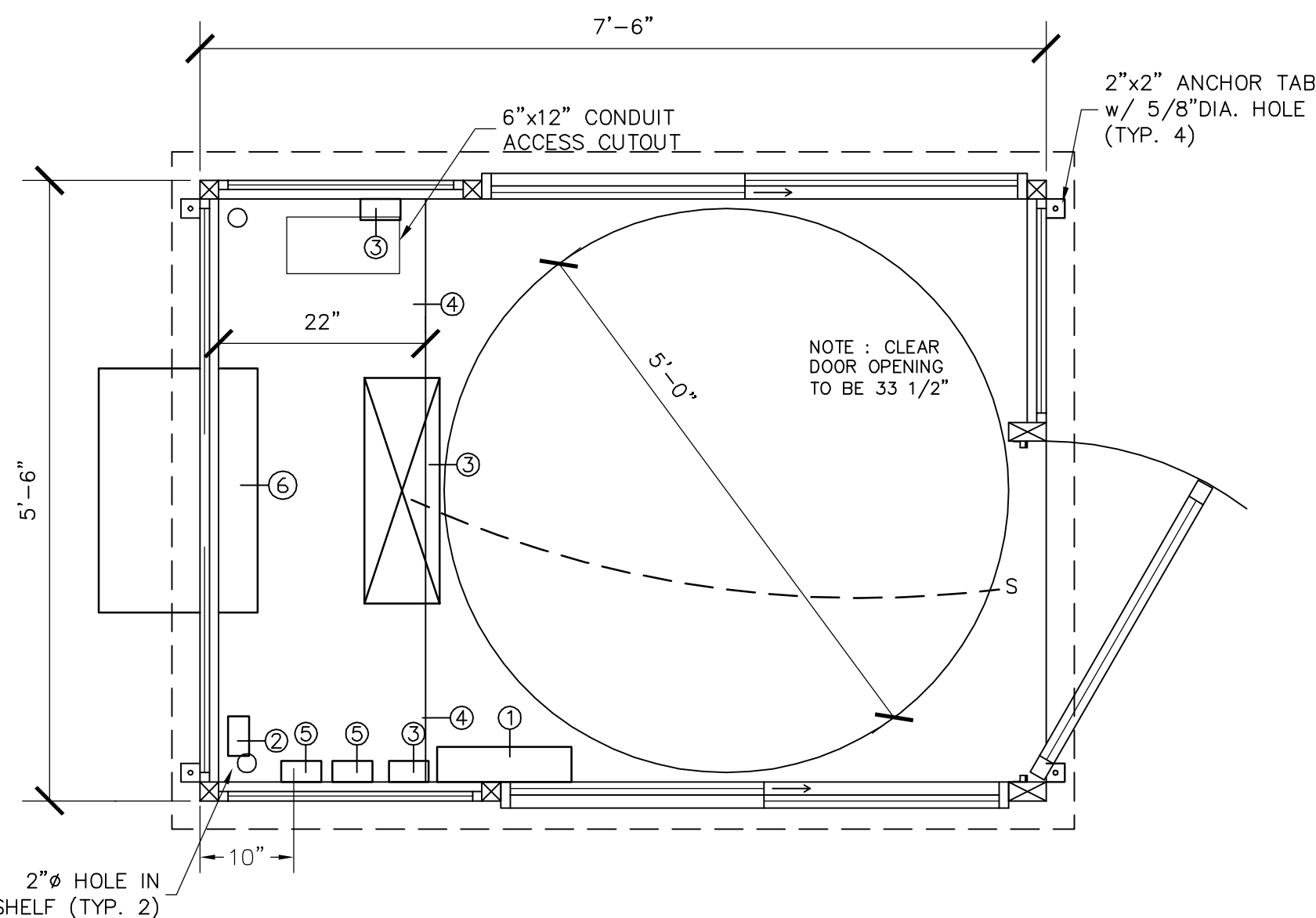


**VIEW OF ENTRANCE
(UNDER AIR RIGHTS SURFACE LOT)**
1
R-1.5
SCALE: N.T.S.



**VIEW OF ENTRANCE
(UNDER AIR RIGHTS SURFACE LOT)**
2
R-1.5
SCALE: N.T.S.

REMOVE EXISTING BOOTH
AND HC RAMP (1:12
MAZ) WITH TACTILE PAD



NEW CASHIER BOOTH
A
R-1.5
SCALE: N.T.S.

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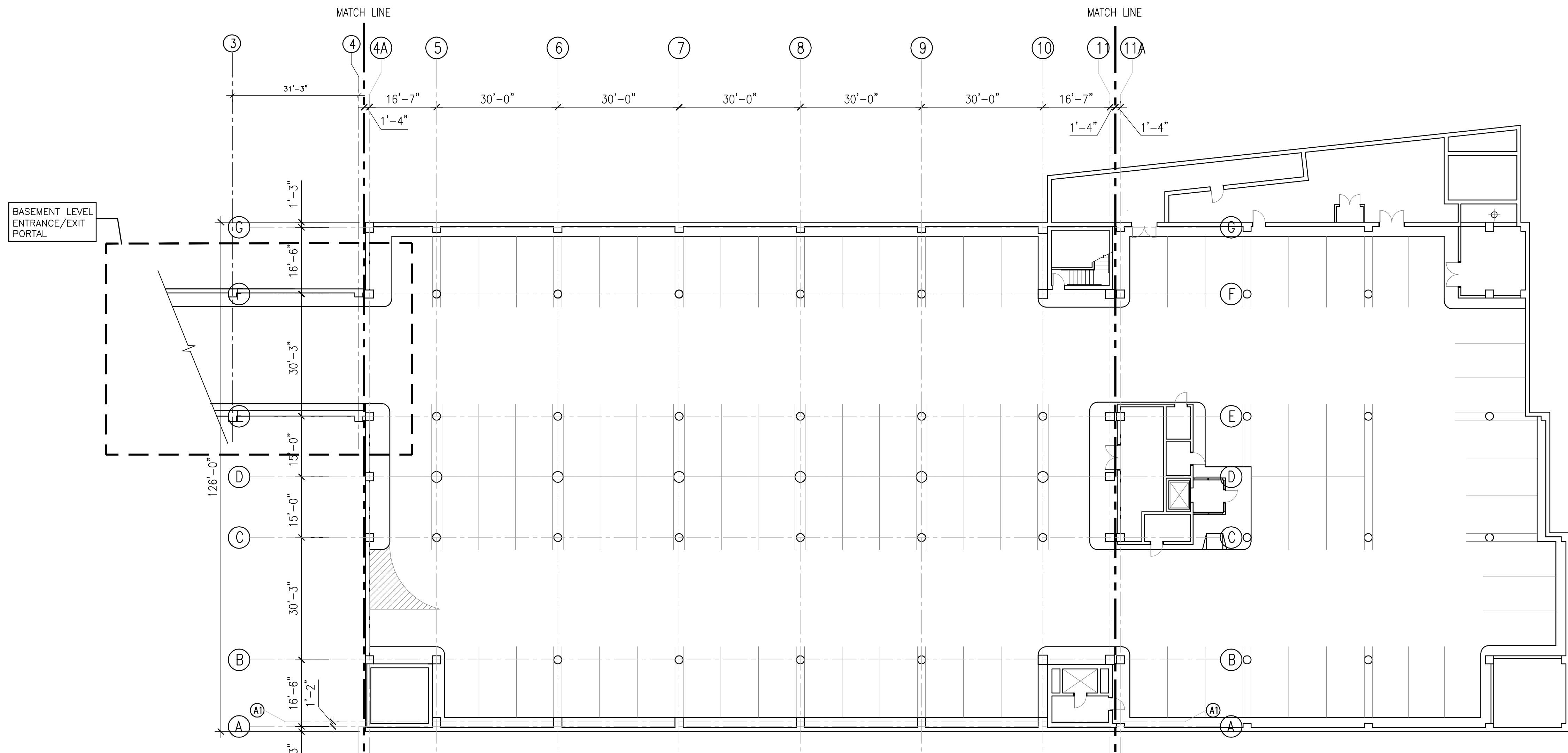
VIEW OF ENTRANCE/EXIT
(GRANITE SQUARE GARAGE)
SCALE: N.T.S.



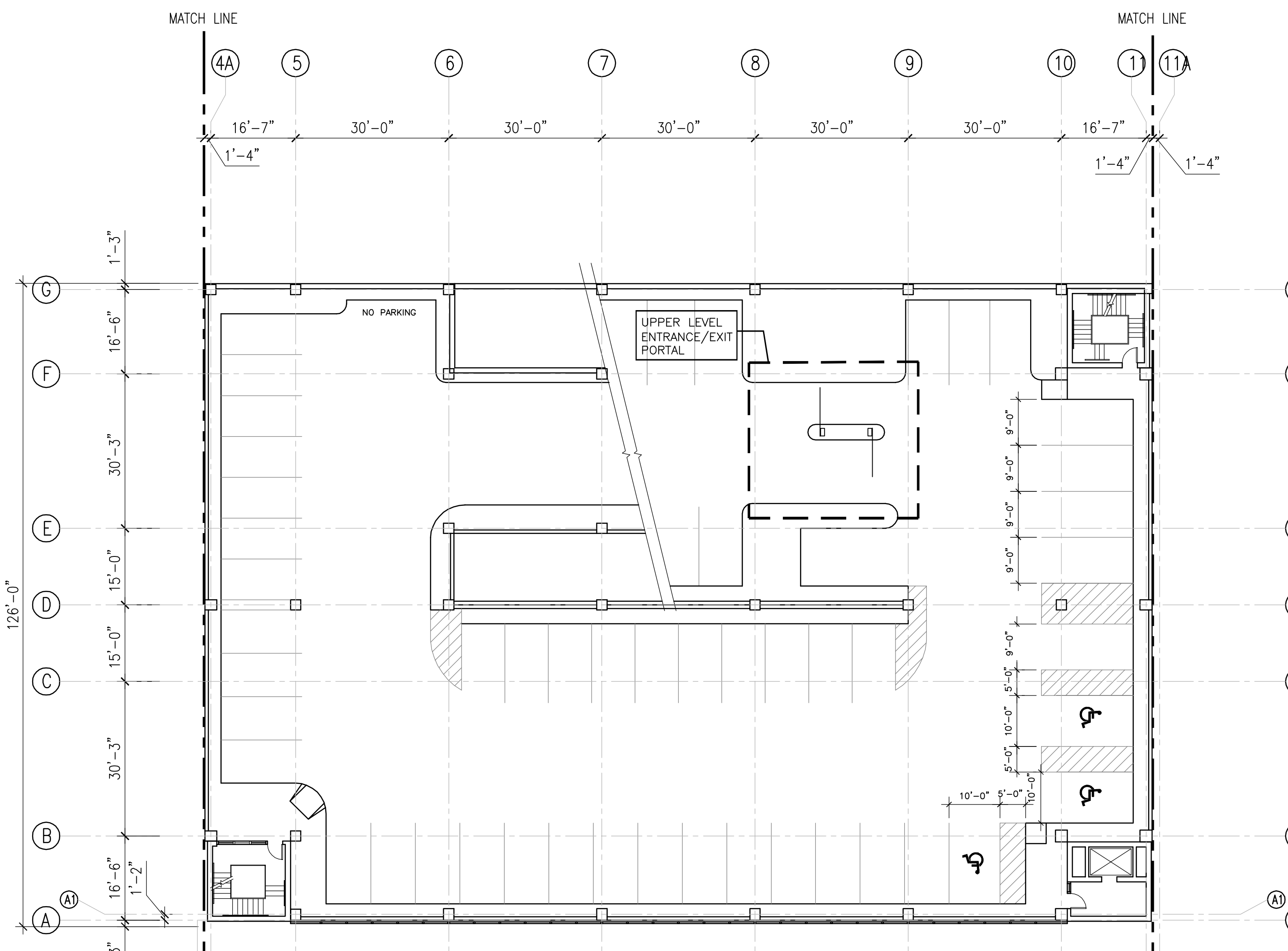
VIEW OF ENTRANCE/EXIT TO MONTHLY
PARKING (GRANITE SQUARE GARAGE)
SCALE: N.T.S.



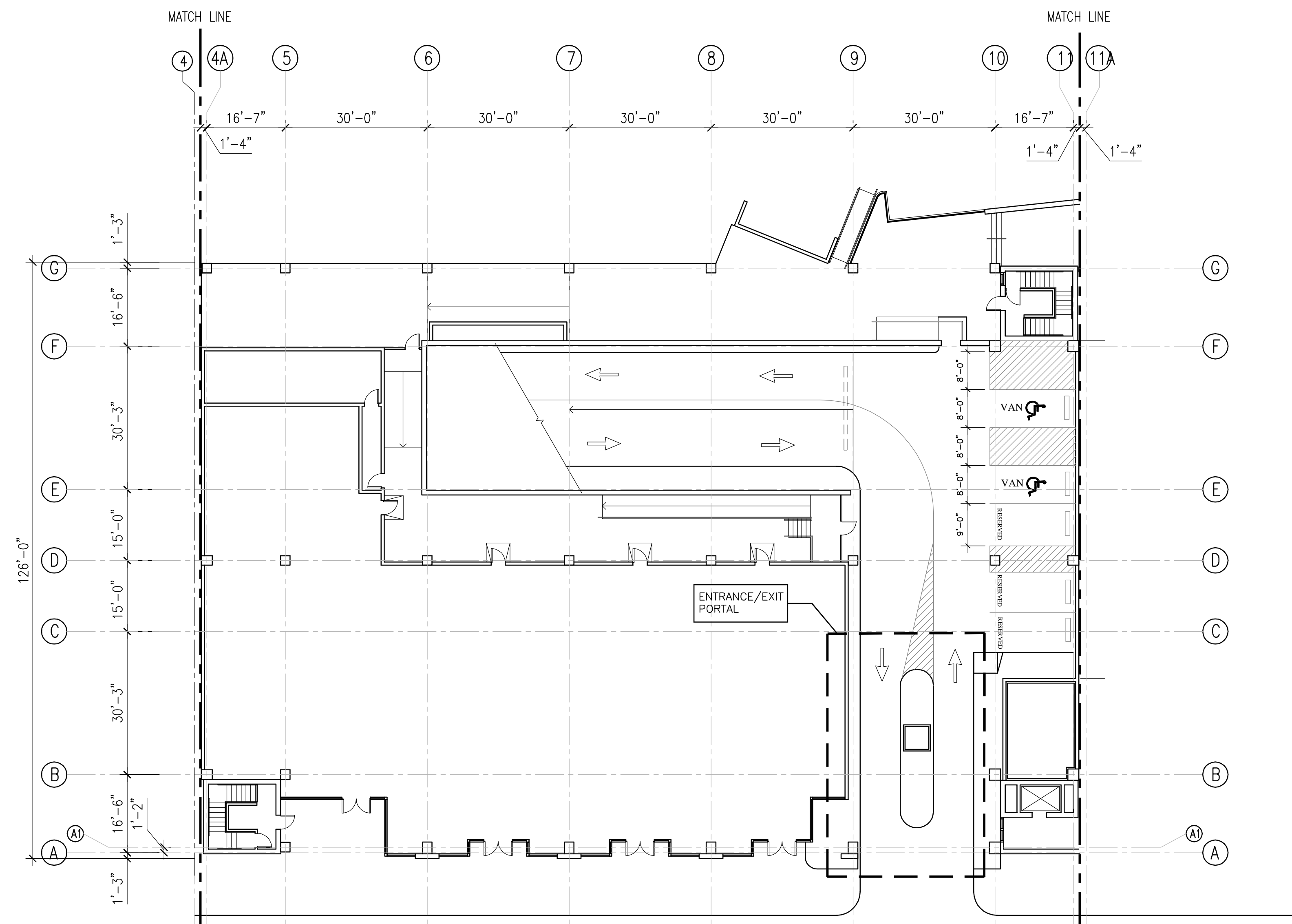
VIEW OF ENTRANCE/EXIT TO BASEMENT
(GRANITE SQUARE GARAGE)
SCALE: N.T.S.



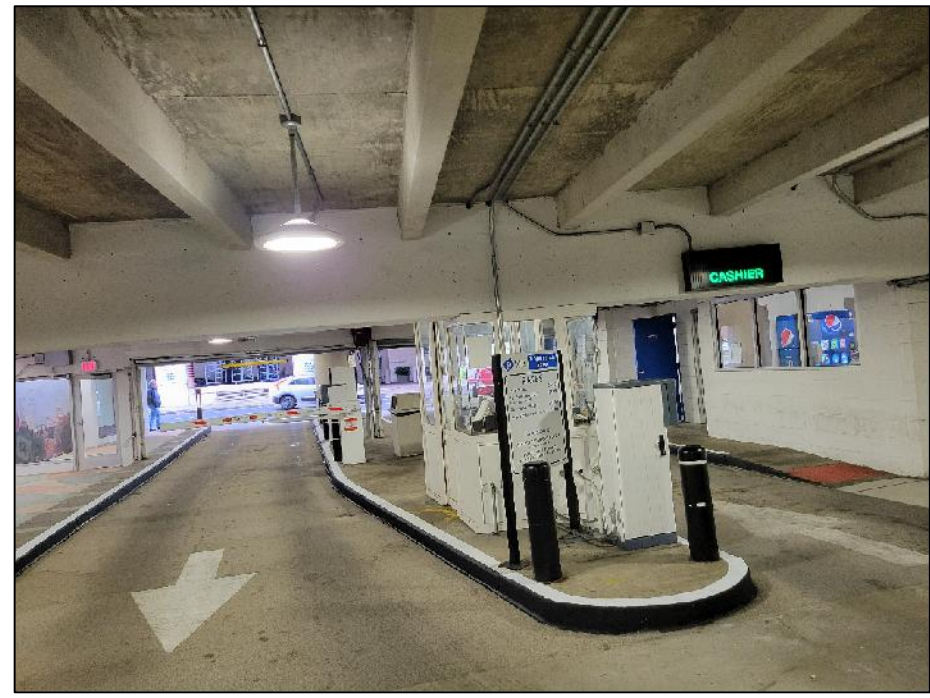
GRANITE SQUARE GARAGE, BASEMENT LEVEL FLOOR PLAN
SCALE: N.T.S.



GRANITE SQUARE GARAGE, SECOND LEVEL FLOOR PLAN
SCALE: N.T.S.



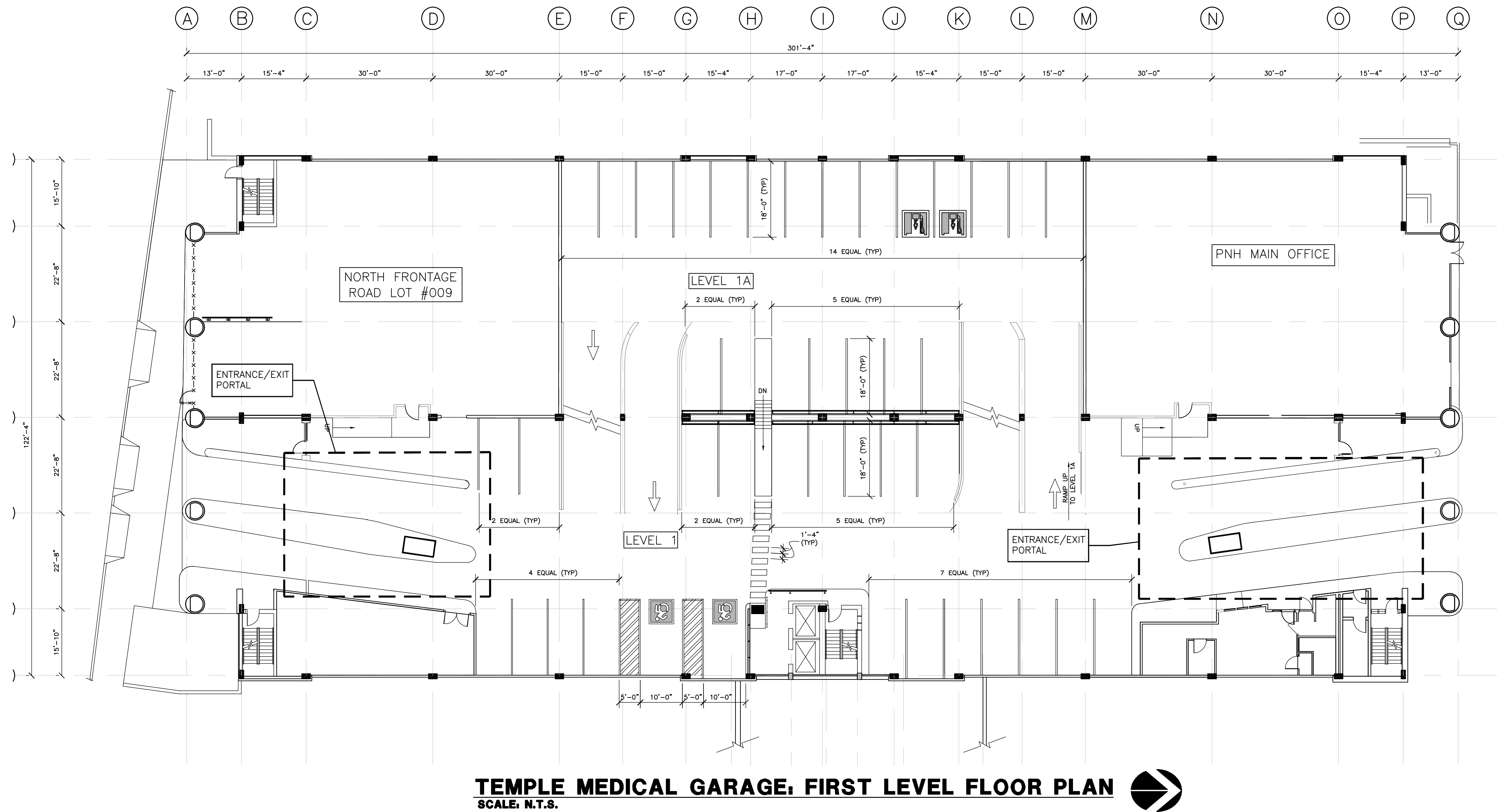
GRANITE SQUARE GARAGE, FIRST LEVEL FLOOR PLAN
SCALE: N.T.S.



1
R-1.7
VIEW OF EXIT TO M.L.K. BOULEVARD
(TEMPLE MEDICAL GARAGE)
SCALE: N.T.S.



2
R-1.7
VIEW OF EXIT TO GEORGE STREET
(TEMPLE MEDICAL GARAGE)
SCALE: N.T.S.



TEMPLE MEDICAL GARAGE, FIRST LEVEL FLOOR PLAN
SCALE: N.T.S.

DESMAN

CONNECTICUT

PARKING ACCESS & REVENUE CONTROL SYSTEM REPLACEMENT
AT
NEW HAVEN PARKING AUTHORITY FACILITIES

NEW HAVEN,

NO.	DATE	BY
REVISIONS		
DRAWING TITLE		
SITE PLANS		
DRAWING NO.		
R-1.7		
SCALE: AS NOTED		
DATE: AUGUST 2025		
PROJECT NO. 20-24150.00-2		
NHPA NO. 24-029		
DESIGN K.D.S.	DRAWN K.D.S.	CH'KD. K.D.S.

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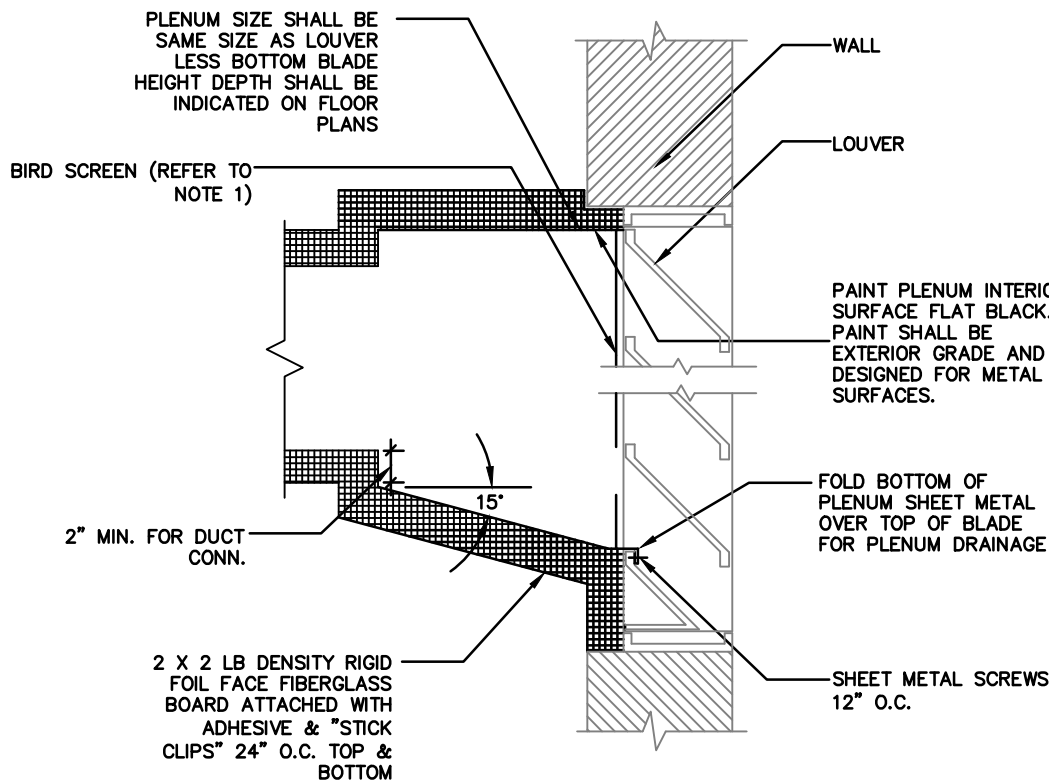
MECHANICAL EQUIPMENT SCHEDULES

DUCT HEATER/SUPPLY AIR UNIT - COLLECTION BOOTH

EDH-1 THERMOLEC MODEL FER-06-3-208/1
65 CFM @ 0.25" ESP, 10,230 BTUH, 208V/1PHS, 3KW ELECTRIC HEATER.
FURNISH WITH OUTSIDE AIR DAMPER, FAN SPEED CONTOL, SCR CONTROL, AND SUPPLY DUCT SENSOR. PROVIDE MANUAL SWITCH IN COLLECTION BOOTH TO ENABLE/DISABLE UNIT.

AIR CONDITIONING UNIT - COLLECTION BOOTH

AC-2 RECPRO MODEL RP-AC2800 ROOFTOP AIR CONDITIONER
9500 BTUH, 1590 WATTS, 120 VOLT, R410A REFRIGERANT.
FURNISH WITH CEILING PLENUM ASSEMBLY, THICK ROOF KIT, WASHABLE FILTER, AND REMOTE CONTROL.



- NOTES:
- 1. COVER INSIDE FACE OF LOUVER WITH 1/2" MESH ALUMINUM BIRD SCREEN SCREWED IN PLACE.
 - 2. INSULATE UNPAID PORTION OF LOUVER WITH 2" DOUBLE WALL INSULATED PANELS.
 - 3. SEAL ALL PLENUM GASKS WATERIGHT WITH SILICONE SEALANT.
 - 4. TYPICAL FOR SUPPLY AND EXHAUST PLENUMS.
 - 5. PROVIDE ACCESS DOOR IN PLENUM. DOOR SHALL BE FIELD COORDINATED FOR ACCESS. DOOR SIZE SHALL BE 36" HIGH X 18" WIDE. REFER TO SPECIFICATION FOR DOOR CONSTRUCTION.

AIR INTAKE LOUVER
DETAIL

GENERAL

- DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS AND SUPPLEMENTAL CONDITIONS OF THE CONTRACT ARE INTEGRAL PARTS OF THE CONTRACT DOCUMENTS.
- WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
- IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.
- REMOVE, MODIFY, REPLACE AND RELOCATE EXISTING SYSTEMS AS REQUIRED FOR INSTALLATION OF NEW HVAC SYSTEMS. MODIFICATIONS PERFORMED SHALL NOT ADVERSELY EFFECT PERFORMANCE OF EXISTING SYSTEMS.
- ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.
- WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, HANGERS, INSERTS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. ALL MATERIAL WORK, INCIDENTAL ACCESSORIES OR OTHER DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT, AND IN ALL RESPECTS READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.
- IF ANY ERRORS, OMISSIONS OR DISCREPANCIES APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, THE CONTRACTOR SHALL WITHIN TEN (10) DAYS AFTER RECEIVING SUCH DOCUMENTS NOTIFY THE ARCHITECT IN WRITING OF SUCH OMISSIONS OR ERRORS. IN THE EVENT OF THE CONTRACTORS FAILURE TO GIVE SUCH NOTICE, ERRORS OR OMISSIONS, THE COST OF RECTIFYING SAME, SHALL BE BORNE BY THIS CONTRACTOR.
- PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.
- MAINTAIN ACCESS AND CLEARANCES AROUND ELECTRICAL EQUIPMENT REQUIRED BY NFPA 70.
- MAINTAIN ALL MANUFACTURERS SERVICE ACCESS REQUIREMENTS.
- WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOSTINGS, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- INSTALL WORK IN A NEAT WORKMANLIKE MANNER READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR.
- STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.
- THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION NOT SPECIFICALLY PROVIDED BY OTHERS BUT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS. COORDINATE REQUIREMENTS WITH DIVISION 26 OR 16.
- PRIOR TO SUBMISSION OF ITS BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN THE ACTUAL FIELD CONDITIONS AS THEY RELATE TO THE WORK AS INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ARCHITECTS AND ENGINEERS ATTENTION PRIOR TO SUBMISSION OF ITS BID, AND IF NOT RESOLVED TO HIS SATISFACTION, SHALL BE A WRITTEN QUALIFICATION OF ITS BID. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE, AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
- PRIOR TO SUBMISSION OF ITS FORMAL BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THE ENTIRE PROJECT INCLUDING GENERAL CONSTRUCTION, DEMOLITION, ELECTRICAL, MECHANICAL, PLUMBING, AND IT SHALL NOTIFY THE PROJECT COORDINATOR OF WORK REQUIRED IN ITS BID WHICH IS INDICATED OR IMPLIED IN OTHER SECTIONS OF THE WORK.
- CONTRACTOR TO OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- ALL EQUIPMENT, MATERIALS, AND RELATED SYSTEM COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
- SLEEVE, PATCH AND SEAL ALL FLOOR AND WALL OPENINGS REQUIRED FOR PIPE AND DUCT INSTALLATION. PROVIDE FIRE SAFING AT PENETRATIONS THROUGH WALLS.
- ALL PENETRATIONS THROUGH RATED WALLS & CEILINGS SHALL BE SEALED USING U.L. LISTED METHODS APPROPRIATE FOR INDICATED RATING.
- ALL ROOFING WORK TO BE PERFORMED BY AN APPROVED CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TOTAL COORDINATION BETWEEN THE DIFFERENT DIVISIONS OF THE CONTRACT. ITEMS FURNISHED UNDER ONE DIVISION AND REQUIRING WORK UNDER ANOTHER DIVISION IS PART OF THE CONTRACT AND NO AVOIDANCE WILL BE GIVEN TO THE CONTRACTORS CLAIM FOR EXTRA WORK.

ALTERATION WORK AND DEMOLITION

- ALL EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNER'S APPROVAL.
- UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL DUCTWORK PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.
- NO DEAD ENDS SHALL BE LEFT ON ANY DUCTWORK PIPING SYSTEMS UPON COMPLETION OF WORK.
- EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.
- ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.
- ALL EXISTING EXPOSED, UNNECESSARY DUCTWORK AND PIPING NOT RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.
- RE-ROUTE OR REMOVE ALL EXISTING DUCTWORK, PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.
- WHERE PORTIONS OF EXISTING DUCT SYSTEMS ARE TO REMAIN CONTRACTOR TO TAKE AIRFLOW READINGS AT ALL AIR TERMINALS ASSOCIATED WITH THE DUCT SYSTEM TO BE MODIFIED BEFORE COMMENCEMENT OF WORK AND AFTER ALTERATION WORK IS COMPLETE. AIR BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT NEEB CERTIFIED COMPANY, NOT ASSOCIATED WITH THE CONTRACTOR. REPORTS ARE TO BE ISSUED TO THE OWNER AND ENGINEER AT BOTH OCCURRENCES. IF AS BUILTS ARE AVAILABLE, DISCREPANCIES NOTED BETWEEN THE AS BUILT DRAWINGS AND THE INITIAL AIR FLOW READINGS ARE TO BE NOTED ON THE AIR FLOW REPORT. EXISTING AIR TERMINALS ARE TO BE BALANCED TO THE ORIGINAL READINGS AT COMPLETION OF WORK UNLESS OTHERWISE IDENTIFIED.

SHOP DRAWINGS

- SUBMIT COORDINATED SCALE DRAWINGS OF EQUIPMENT INCLUDING INTERCONNECTING PIPING AND DUCTWORK. COORDINATE SPACE REQUIREMENTS FOR EQUIPMENT AND SERVICES. INCLUDE CONNECTIONS, ANCHORAGES AND FASTENINGS. MAKE ALLOWANCE FOR CLEARANCES FOR ACCESS TO AND MAINTENANCE OF EQUIPMENT.
- SUBMIT CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTION WIRING DIAGRAMS. SUBMIT FOUR (4) BOOKBOUND OPERATING AND SERVICE MANUALS AND PDF FILES WHICH SHALL INCLUDE: ALL EQUIPMENT, DUCT SHOP STANDARDS INCLUDING DUCT ACCESSORIES, PIPING, VALVES, FITTINGS, TEMPERATURE CONTROLS, SEISMIC DEVICES, ANCHORING DEVICES, ETC.

AS-BUILT DRAWINGS

- PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY, ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION AND ELECTRONIC PDF VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
- PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:
- INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.
- MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.
- EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
- APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, PDFs, MANUALS AND OPERATING INSTRUCTIONS.
- SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

HANGERS AND SUPPORT

- PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT DUCTWORK, PIPING, EQUIPMENT AND TO KEEP IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF JURIOUS THUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.
- PROVIDE ADDITIONAL SUPPORT FOR DUCTWORK PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.
- BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES. FOR PIPING 2-1/2 INCHES AND LARGER, 1 BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE NOT TO BE USED.
- PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.
- PROVIDE SUPPORT/BRACING OF EQUIPMENT AND BUILDING SERVICES FOR SEISMIC RESTRAINT AS REQUIRED BY THE BUILDING CODE.

EQUIPMENT & PIPING IDENTIFICATION

- CONSULT THE OWNER AS TO ANY LABELING STANDARDS INCLUDING NAMING CONVENTIONS, STANDARD LABELING MATERIALS AND LABELING COLOR CONVENTIONS. ALL NEW VALVE AND EQUIPMENT TAGS SHALL MATCH THE BUILDING STANDARD, WHERE NO STANDARD EXISTS, PROVIDE THE FOLLOWING:
- IDENTIFY ALL EQUIPMENT BY A PERMANENTLY ATTACHED MINIMUM 1-1/2" X 3-1/2" NAMEPLATE OF WHITE CORE LAMINATED BAKE LITE WITH BLACK SURFACE AND INCISED LETTERS. INCLUDE THE EQUIPMENT IDENTIFICATION NUMBER, MANUFACTURERS NAME, SERIAL AND MODEL NUMBER, AND RATED CAPACITY.

ELECTRICAL SPECIFICATIONS

- ELECTRICAL GENERAL REQUIREMENTS:**
 - ALL WORK SHALL COMPLY WITH CONNECTICUT STATE BUILDING CODE AND CONNECTICUT STATE FIRE SAFETY CODE AND SHALL BE ACCOMPLISHED IN A NEAT AND WORKMAN LIKE MANNER.
 - MATERIAL & EQUIPMENT SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE AND SHALL BE LISTED BY UNDERWRITERS LABORATORIES.
 - SUBMITTALS:
 - SUBMIT PRODUCT DATA, SHOP DRAWINGS, RECORD DRAWINGS AND O&M MANUALS WHERE REQUIRED BY INDIVIDUAL SPECIFICATION SECTIONS.
 - SUBMIT THREE COPIES TO OWNER.
 - WARRANTY:
 - WARRANTY FOR ALL GENERAL MATERIALS AND LABOR SHALL BE 2 YEAR FROM DATE OF PROJECT CLOSEOUT.
 - ELECTRICAL INSTALLATION:
 - COORDINATE ELECTRICAL SYSTEMS, EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. REFER ALL CONFLICTS TO ENGINEER BEFORE CONTINUING WITH WORK.
 - INSTALL SYSTEMS TO PROVIDE MAXIMUM HEADROOM POSSIBLE UNLESS INDICATED OTHERWISE. DO NOT CROSS UNDER TEES IN DRIVE LANES.
 - INSTALL SYSTEMS LEVEL, PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS.
 - INSTALL EQUIPMENT TO FACILITATE REPAIR, MAINTENANCE OR REPLACEMENT.
 - PERFORM CUTTING AND PATCHING REQUIRED TO REMOVE AND REPLACE DEFECTIVE WORK OR WORK NOT CONFORMING TO REQUIREMENTS OF CONTRACT DOCUMENTS.
- CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM IN PROPER WORKING ORDER AND SHALL, WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK, MATERIALS, OR EQUIPMENT FURNISHED & INSTALLED BY HIM UNDER THIS WHICH DEVELOP DEFECTS, EXCEPT FROM NORMAL WEAR & TEAR, WITHIN ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER.
- RACEWAYS, BOXES, AND FITTINGS:**
 - COMPONENTS AND INSTALLATION SHALL COMPLY WITH NFPA 70 & NEMA AND SHALL BE UL LISTED.
 - INTERIOR RACEWAYS SHALL BE ELECTRICAL METALLIC TUBING.
 - EXTERIOR RACEWAYS ABOVE GROUND SHALL BE RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT (IMC). THIS INCLUDES ALL GARAGE AREAS.
 - PROVIDE COMPATIBLE EXPANSION FITTINGS FOR ALL EXPANSION JOINT LOCATIONS AS COORDINATED IN FIELD.
 - USE RACEWAY FITTINGS COMPATIBLE WITH ASSOCIATED RACEWAY AND APPLICATION. RIGID AND IMC STRAPS SHALL BE MALLEABLE IRON WITH CLAMP BACKS.
 - BOXES SHALL BE OUTDOOR RATED. CAST AND BELL STYLE BOXES ARE BOTH ACCEPTABLE. COORDINATE WITH FIXTURE MOUNTING REQUIREMENTS.
- BUILDING WIRE:**
 - WIRE SHALL COMPLY WITH UL 83 AND NEMA WC-6. CONNECTORS SHALL COMPLY WITH UL 486A.
 - CONDUCTORS SHALL BE COPPER AND INSULATION SHALL BE THINWTHWN.
- ALL WIRING SHALL BE BUILDING WIRE IN CONDUIT.
- SUPPORTING DEVICES:**
 - SUPPORTS, HARDWARE AND FASTENERS SHALL BE PROTECTED WITH ZINC COATING.
 - SLEEVES SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE.
 - CONFORM TO MANUFACTURERS RECOMMENDATIONS FOR SELECTION AND INSTALLATION OF SUPPORTS AND CONFORM TO THE FOLLOWING:
 - SUPPORT INDIVIDUAL HORIZONTAL RACEWAYS BY SEPARATE PIPE HANGERS.
 - SUPPORT RACEWAY WITHIN ONE FOOT OF ANY UNSUPPORTED BOX.
 - INSTALL SLEEVES IN CONCRETE SLABS AND WALLS, AND FIRE RATED WALLS AND FLOORS. APPLY UL LISTED FIRE STOPPING MATERIAL WHERE REQUIRED. SEAL ALL PARKING DECK PENETRATIONS.
 - ELECTRICAL IDENTIFICATION:**
 - PROVIDE EQUIPMENT IDENTIFICATION LABELS OF ENGRAVED PLASTIC LAMINATE FOR LIGHTING CONTROL COMPONENTS.
 - CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NFPA 70 AND ANSI A13.1.
 - MODIFY TYPED PANELBOARD CIRCUIT DIRECTORY FOR EACH PANELBOARD.

LIGHTING FIXTURE SCHEDULE

DESIGNATION	DESCRIPTION	MANUFACTURER/ MODEL NUMBER	LAMP		ELECTRICAL		NOTES
			TYPE	COLOR TEMP	DRIVER	VOLTAGE	
A	8-5/16" WIDE LOW PROFILE WRAPAROUND / LED	COLUMBIA LIGHTING LAW2-40HL-EU	LED	4000K	FIXED OUTPUT	UNIVERSAL	32
B	CEILING MOUNTED SRT1 EDGE-LIT FIXTURE	CURRENT LIGHTING/BEACON SRT1-15-40X8-50-UNV-WHS-LMB	LED	4000K	FIXED OUTPUT	UNIVERSAL	16.85

CLEANING, BALANCING AND ADJUSTMENT

- THOROUGHLY CLEAN ALL NEW APPARATUS (COILS, REPLACE FILTERS, ETC) PRIOR TO PLACING IN OPERATION. CALIBRATE AND/OR REPLACE FAULTY COMPONENTS AS REQUIRED.
- AIR BALANCING SHALL BE PROVIDED UNDER THIS CONTRACT IN COMPLIANCE WITH THE BELOW. AIR BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT NEEB CERTIFIED COMPANY, NOT ASSOCIATED WITH THE CONTRACTOR.
- PROVIDE AIR READINGS BEFORE THE COMMENCEMENT OF WORK AS INDICATED ON THE CONTRACT DRAWINGS.
- MARK EQUIPMENT SETTINGS, INCLUDING DAMPER CONTROL POSITIONS, DEVICES, TO SHOW FINAL SETTINGS AT COMPLETION OF BALANCING. PROVIDE MARKINGS WITH PAINT OR OTHER SUITABLE PERMANENT IDENTIFICATION MATERIALS.
- TEST, ADJUST, AND BALANCE AIR DISTRIBUTION SYSTEMS TO PROVIDE AIR QUANTITIES INDICATED WITHIN PLUS 5 PERCENT.
- SUBMIT A TEST REPORT INDICATING QUANTITY OF AIR AT EACH OUTLET AFTER BALANCING. LIST OBVIOUS NOISE AND AIR DRAFT PROBLEMS AND RECOMMENDED CORRECTIVE ACTION.

CUTTING, ALTERING AND PATCHING

- PROVIDE ALL CUTTING, CHASING, DRILLING, ALTERING AND ROUGH PATCHING REQUIRED FOR THE WORK OF THIS DIVISION.
- INCLUDING THE RESTORING OF EXISTING WORK CUT FOR OR DAMAGED BY INSTALLATION OF NEW WORK, AND WHERE PRESENT WORK IS REMOVED.
- ALL MATERIALS AND WORKMANSHIP REQUIRED IN CONNECTION WITH CUTTING, ALTERING AND ROUGH PATCHING SHALL MATCH THE EXISTING WORK IN EVERY RESPECT.
- DO ALL SHORING, BRACING, CUTTING, PATCHING, PIECING OUT, FILLING IN, REPAIRING AND REFINISHING OF ALL PRESENT WORK AS MADE NECESSARY BY THE ALTERATION AND THE INSTALLATION OF NEW WORK.
- ALL HOLES AND OPENINGS OCCURRING IN THE EXISTING FLOORS AFTER EQUIPMENT, PARTITIONS, FLOORS, STEEL WORK, CONDUITS AND PIPES ARE REMOVED OR INSTALLED SHALL BE CLOSED UP WITH MATERIALS SIMILAR TO THE ADJACENT WORK.
- THE SIZE AND LOCATION OF ITEMS REQUIRING AN OPENING, CHASE OR OTHER PROVISIONS TO RECEIVE IT SHALL BE GIVEN BY THE TRADE REQUIRING SAME IN AMPLE TIME TO AVOID UNDUE CUTTING OF ANY NEW WORK TO BE INSTALLED. THESE PROVISIONS SHALL NOT RELIEVE THE CONTRACTOR FROM KEEPING INFORMED AS TO THE REQUIRED OPENING, CHASES, ETC., NOR FROM RESPONSIBILITY FOR THE CORRECTNESS THEREOF, NOR FOR CUTTING AND REPAIRING AFTER THE NEW WORK IS IN PLACE.
- INCLUDE ALL CUTTING, REPAIRING AND PATCHING IN CONNECTION WITH THE WORK THAT MAY BE REQUIRED TO MAKE THE SEVERAL PARTS COME TOGETHER PROPERLY AND FIT IT TO RECEIVE OR BE RECEIVED BY THE WORK OF OTHER TRADES, AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED, OR REASONABLY IMPLIED BY THE DRAWINGS AND SPECIFICATIONS.
- ALL REPAIRING, PATCHING, PIECING-OUT, FILLING-IN, RESTORING AND REFINISHING SHALL BE NEATLY DONE BY MECHANICS SKILLED IN THEIR TRADE TO LEAVE SAME IN CONDITION SATISFACTORY TO THE OWNER.
- MATERIALS AND THEIR METHODS OF APPLICATION FOR PATCHING SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE SPECIFICATIONS.
- MATERIALS AND WORKMANSHIP NOT COVERED BY THE SPECIFICATIONS AND ITEMS OF WORK EXPOSED TO VIEW ADJOINING EXISTING WORK TO REMAIN SHALL CONFORM TO SIMILAR.
- MATERIALS AND WORKMANSHIP EXISTING IN OR ADJACENT TO THE SPACES TO BE ALTERED.
- CUTTING, REPAIRING AND PATCHING SHALL INCLUDE ALL ITEMS SHOWN ON THE DRAWINGS, SPECIFIED IN THE SPECIFICATIONS OR REQUIRED BY THE INSTALLATION OF NEW WORK OR THE REMOVAL OF EXISTING WORK.
- REMOVE PARTITIONS, WALLS, SUSPENDED CEILINGS, ETC., AS NECESSARY TO PERFORM THE REQUIRED ALTERATIONS OR NEW CONSTRUCTION WORK.
- AVOID DAMAGE TO CONSTRUCTION AND FINISHES THAT ARE TO REMAIN.
- PROTECT AND BE RESPONSIBLE FOR THE EXISTING BUILDING, FACILITIES AND IMPROVEMENTS.
- ANY DISTURBANCE OR DAMAGE TO THE WORK, THE EXISTING BUILDING, AND IMPROVEMENTS, OR ANY IMPAIRMENTS OF FACILITIES RESULTING FROM THE CONSTRUCTION OPERATIONS, SHALL BE PROMPTLY RECTIFIED, WITH THE DISTURBED, DAMAGED, OR IMPAIRED WORK, RESTORED, REPAIRED OR REPLACED AT NO EXTRA COST.
- ALL ALTERATIONS WHICH ARE NOT INDICATED ON THE DRAWINGS NOR SPECIFIED HEREIN BUT NECESSARY TO MAKE GOOD EXISTING WORK DISTURBED BY REASON OF THE WORK SHALL BE RESTORED TO A CONDITION SATISFACTORY TO THE OWNER.
- ALL HOLES IN MASONRY FLOORS AND WALLS ARE TO BE CORE DRILLED.
- DISTURBED CONCRETE AND/OR CEMENT FLOOR AREAS SHALL BE PATCHED WITH APPROVED TYPE LATEX MORTAR.
- WHEN CEMENT MORTAR IS USED FOR PATCHING, THE SURFACES SHALL BE DEPRESSED A MINIMUM DEPTH OF 1".

TEMPORARY OPENINGS

- ALL TEMPORARY OPENINGS CUT IN WALLS, FLOORS OR CEILINGS FOR PIPE OR DUCTWORK SHALL BE CLOSED OFF WITH TRANSITE OR AN EQUALLY NON-COMBUSTIBLE MATERIAL EXCEPT WHEN MECHANICS ARE ACTUALLY WORKING AT THE PARTICULAR OPENING.

SHUTDOWN OF EXISTING BUILDING SYSTEMS

- DO NOT INTERRUPT EXISTING SERVICES OR SYSTEMS IN THE BUILDING UNLESS ABSOLUTELY NECESSARY. SUCH INTERRUPTIONS AND INTERFERENCES MUST BE MADE AS BRIEF AS POSSIBLE AND ONLY AFTER COORDINATION WITH THE OWNER. THE OWNER REQUIRES A MINIMUM OF SEVEN (7) DAYS NOTICE. OBTAIN PRIOR PERMISSION, IN WRITING.
- WHERE THE WORK MAKES TEMPORARY INTERRUPTIONS UNAVOIDABLE, THEY SHALL BE MADE DURING OFF HOURS OR AS OTHERWISE DIRECTED BY THE OWNER.

ELECTRICAL WORK

- ELECTRICAL POWER SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- CONTROL WIRING SHALL BE BY THE HVAC CONTRACTOR. CONTROL WIRING SHALL BE DEFINED AS ANY 12V, 24V OR 120V WIRING INSTALLED FOR PURPOSED OTHER THAN PROVIDING PRIMARY ELECTRICAL POWER TO EQUIPMENT.
- MOTOR STARTERS SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

EXECUTION

- THE PLANS AND SPECIFICATIONS ARE INTENDED TO PROVIDE A GENERAL SCOPE OF WORK.
- WORK COORDINATION AND JOB OPERATIONS: THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES, PROVIDING TIMELY INFORMATION ON HIS NEEDS AND RESPOND IN A TIMELY MANNER TO REQUESTS BY OTHERS.
- MATERIALS AND WORKMANSHIP: ALL MATERIALS SHALL BE NEW AND WITHOUT DAMAGED PARTS. ALL WORK SHALL BE ACCOMPLISHED BY WORKMEN TRAINED IN THAT PARTICULAR FUNCTION OR TASK.
- PROTECTION AND CLEANUP: ALL MATERIALS SHALL BE SUITABLY STORED DURING CONSTRUCTION TO PREVENT DAMAGE AND/OR DETERIORATION. KEEP THE SITE CLEAN OF DEBRIS DUE TO THESE OPERATIONS. CAPSEAL OR OTHERWISE PROTECT PIPING AND DUCTWORK FROM FOREIGN MATERIAL DURING CONSTRUCTION. AIR FILTERS UPSTREAM OF COILS SHALL BE CHANGED REGULARLY TO PREVENT BUILDUP OF MATERIAL ON COIL. FILTERS SHALL BE CHANGED AT LEAST WEEKLY OR WHEN FULLY LOADED.
- SYSTEM STARTUP AND OPERATION: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT TO PLACE THE HVAC SYSTEMS INTO OPERATION. MAINTAIN OPERATION DURING BALANCING AND INSTRUCTION PERIODS. INSURE ALL EQUIPMENT IS RUNNING PROPERLY WITH PROPER LUBRICATION, WITHOUT EXCESSIVE VIBRATION, AND PROPER ELECTRICAL CHARACTERISTICS. PROVIDE OWNER WITH ANY MANUALS, AIR BALANCE REPORTS PRODUCT MAINTENANCE SPECIFICATIONS, BROCHURES AND/OR DRAWINGS NEEDED FOR THE OPERATION AND MAINTENANCE OF NEW EQUIPMENT.

WARRANTY

- THE CONTRACTOR SHALL WARRANTY ALL WORK FOR A PERIOD OF 24 MONTHS FROM ACCEPTANCE BY OWNER DURING THIS WARRANTY PERIOD, CONTRACTOR SHALL RESPOND TO ALL CALLS FOR SERVICE, REPAIRS AND ADJUSTMENTS REQUIRED BY OWNER. CONTRACTOR SHALL INSTALL REPLACEMENT PARTS AND MATERIAL REQUIRED AT NO COST TO THE OWNER. ALL EQUIPMENT WARRANTIES SHALL BE TRANSFERRED TO OWNER AND SERVICED BY CONTRACTOR AS PART OF THIS CONTRACT. COORDINATE WARRANTY WITH PROJECT GENERAL CONDITIONS.

HVAC INSTRUMENTATION & CONTROLS

- QUALITY ASSURANCE
 - ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
- COORDINATION
 - COORDINATE LOCATION OF THERMOSTATS, HUMIDISTATS, AND OTHER EXPOSED CONTROL SENSORS WITH PLANS AND ROOM DETAILS BEFORE INSTALLATION.
 - COORDINATE EQUIPMENT WITH DIVISION 26 TO ACHIEVE COMPATIBILITY WITH EQUIPMENT THAT INTERFACES WITH THE LIGHTING SYSTEM.
 - COORDINATE EQUIPMENT WITH DIVISION 26 TO ACHIEVE COMPATIBILITY WITH EQUIPMENT THAT INTERFACES WITH THE FIRE ALARM SYSTEM.
 - COORDINATE SUPPLY OF CONDITIONED ELECTRICAL BRANCH CIRCUITS FOR CONTROL UNITS AND OPERATOR WORKSTATION.
 - COORDINATE EQUIPMENT WITH DIVISION 26 TO ACHIEVE COMPATIBILITY WITH STARTER COILS AND ANNUNCIATION DEVICES IN PANEL BOARDS.

NO. DATE BY

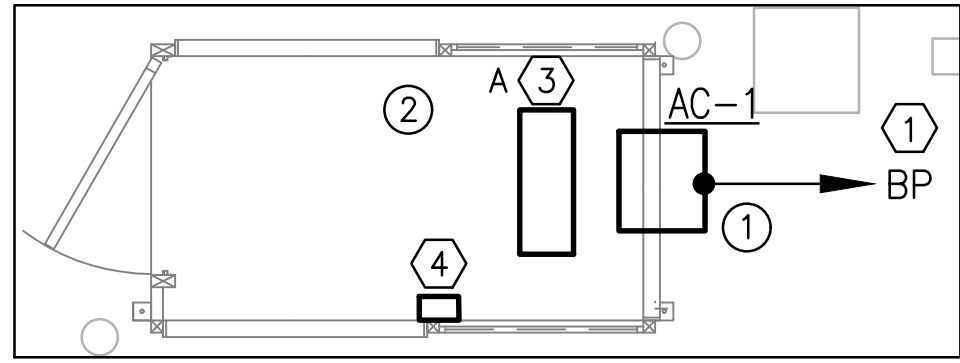
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DRAWING TITLE
MECHANICAL
-ELECTRICAL
SPECIFICATIONS

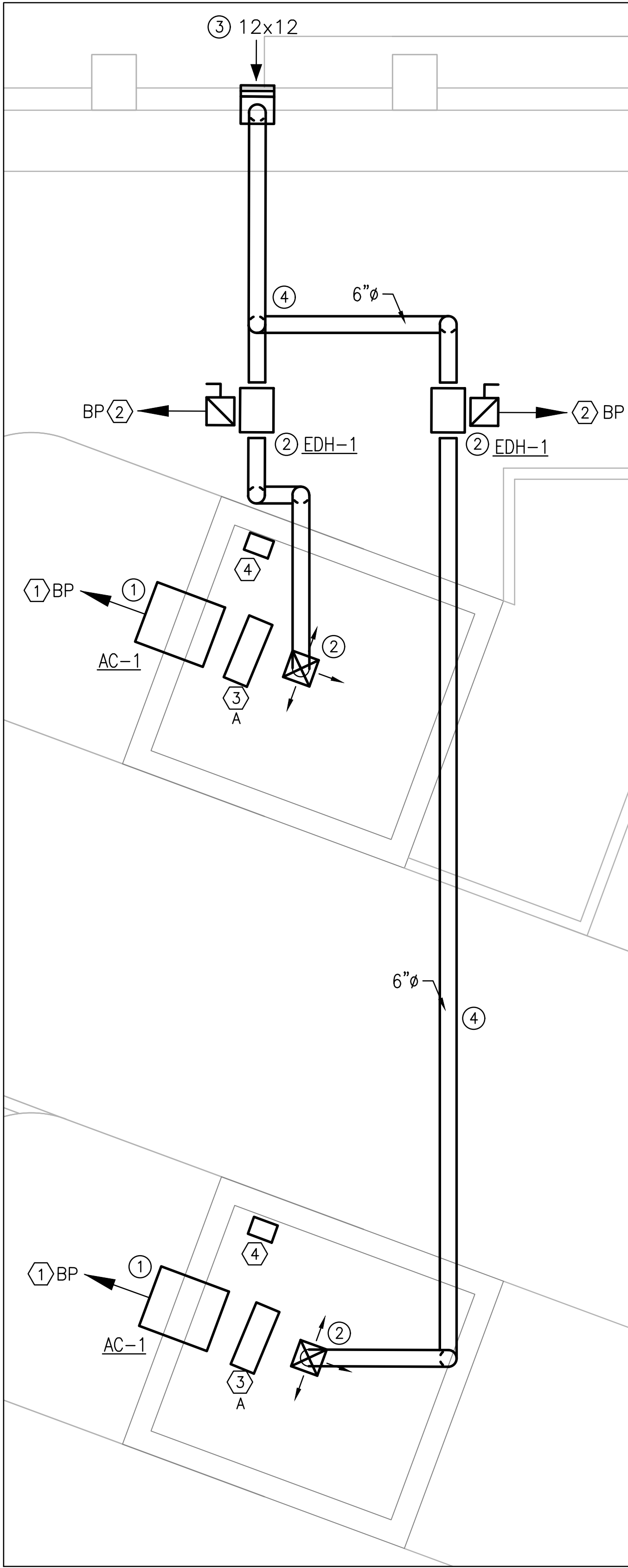
DRAWING NO.
ME-1.1

SCALE: AS NOTED
DATE: AUGUST 2025
PROJECT NO. 20-24180.00-2
NHFA NO. 24-029
DESIGN K.D.S. DRAWN K.D.S. CHECKED K.D.S.

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GROUND LEVEL COLLEGE STREET EXIT FLOOR PLAN
SCALE: 3/8" = 1'



MEZZANINE FLOOR PLAN
SCALE: 3/8" = 1'

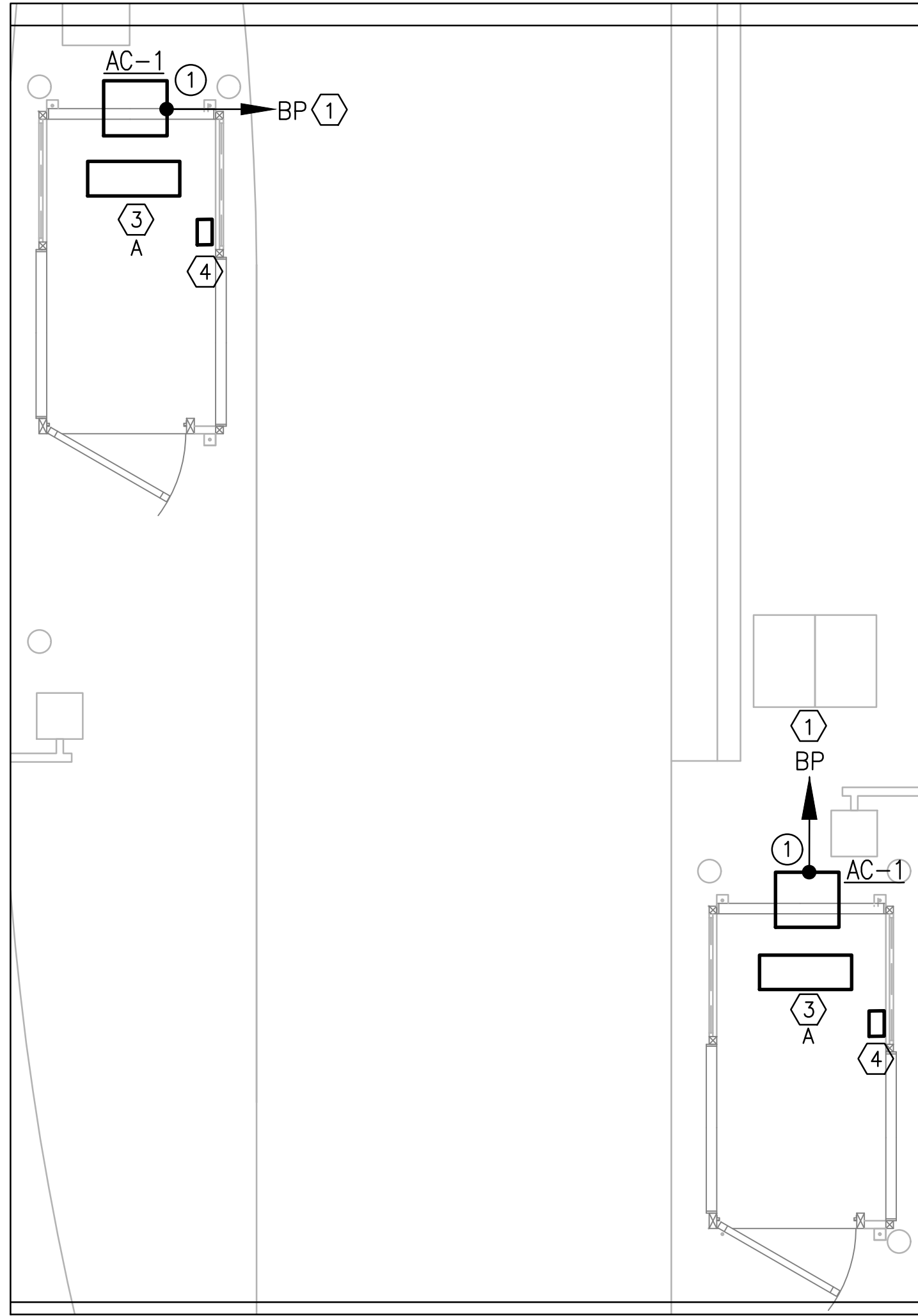


MECHANICAL PLAN NOTES

- 1 REMOVE EXISTING THRU WALL AIR CONDITIONER / HEATING UNIT AND INSTALL NEW THRU WALL AIR CONDITIONER / HEATING UNIT IN EXISTING OPENING.
- 2 INSTALL SUPPLY AIR UNIT SUSPENDED FROM STRUCTURE. PROVIDE FLEXIBLE DUCT CONNECTION TO NEW SUPPLY AND OUTSIDE AIR DUCT. COORDINATE LOCATION AND RELOCATE EXISTING WIRING AND CONDUIT AS REQUIRED.
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ELECTRICAL PLAN NOTES

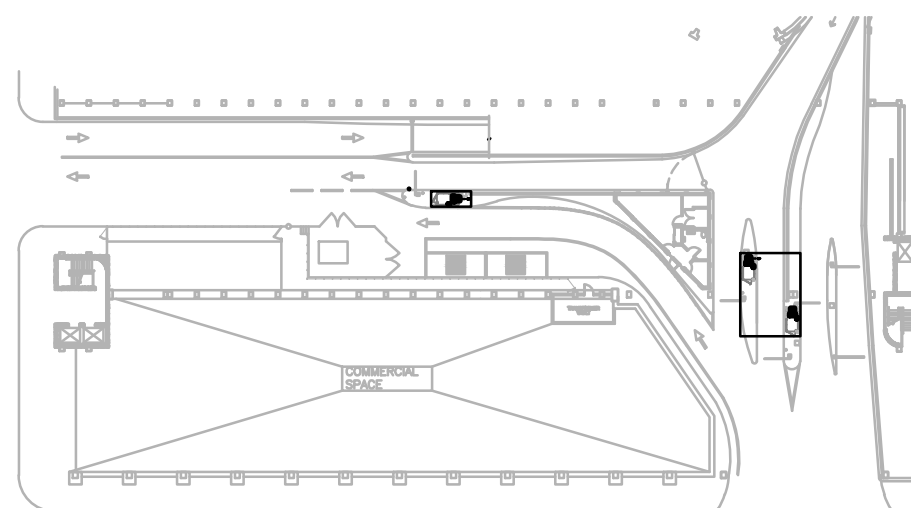
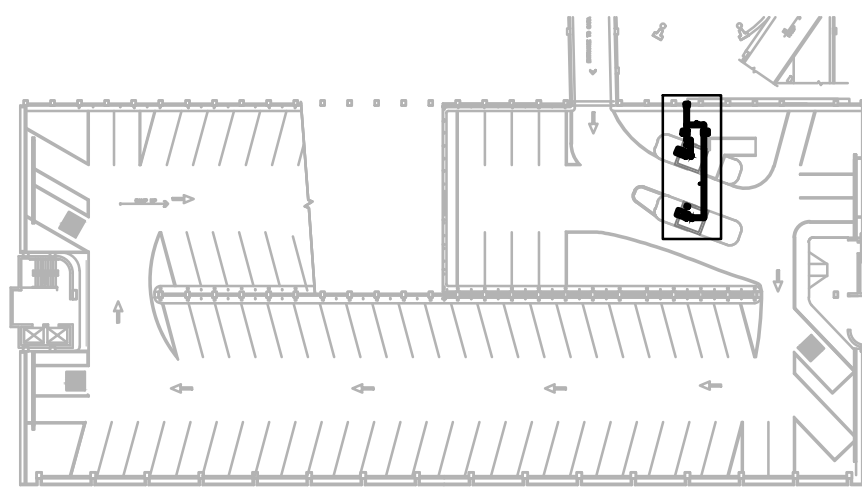
- 1 PROVIDE OR USE EXISTING 3/4" CONDUIT, 2#12, 1#12G BACK TO CORRESPONDING ELECTRICAL PANEL.
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- 4 APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANEL RATED FOR 208V-3PH FED VIA 50A-3P BREAKER FROM MAIN DISTRIBUTION PANEL. REWORK PANEL AS REQUIRED TO ACCOMMODATE NEW CIRCUIT BREAKERS.



GROUND LEVEL CROWN STREET EXIT FLOOR PLAN
SCALE: 3/8" = 1'



KEY PLAN
SCALE: 1/64" = 1'



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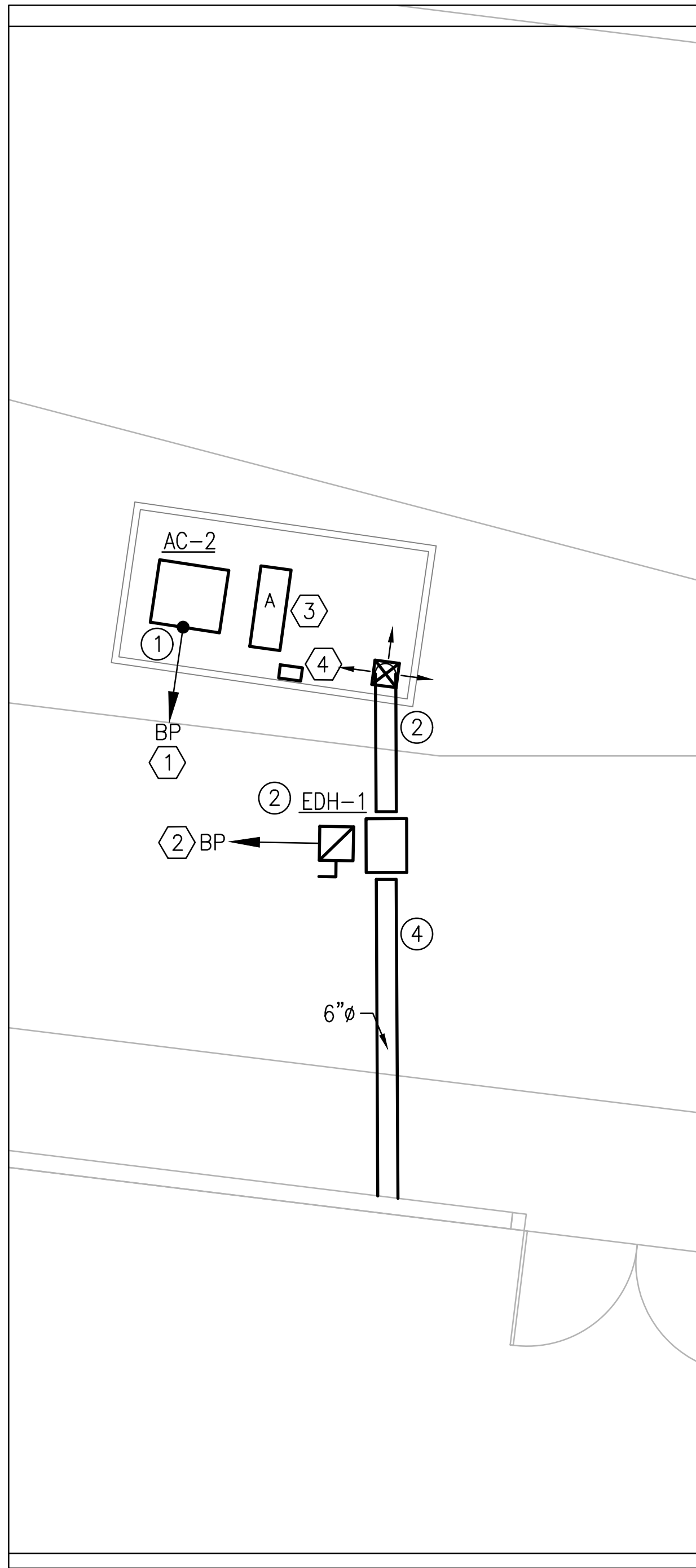
PARKING ACCESS & REVENUE CONTROL SYSTEM REPLACEMENT
AT
NEW HAVEN PARKING AUTHORITY FACILITIES
NEW HAVEN, CONNECTICUT

NO. DATE BY

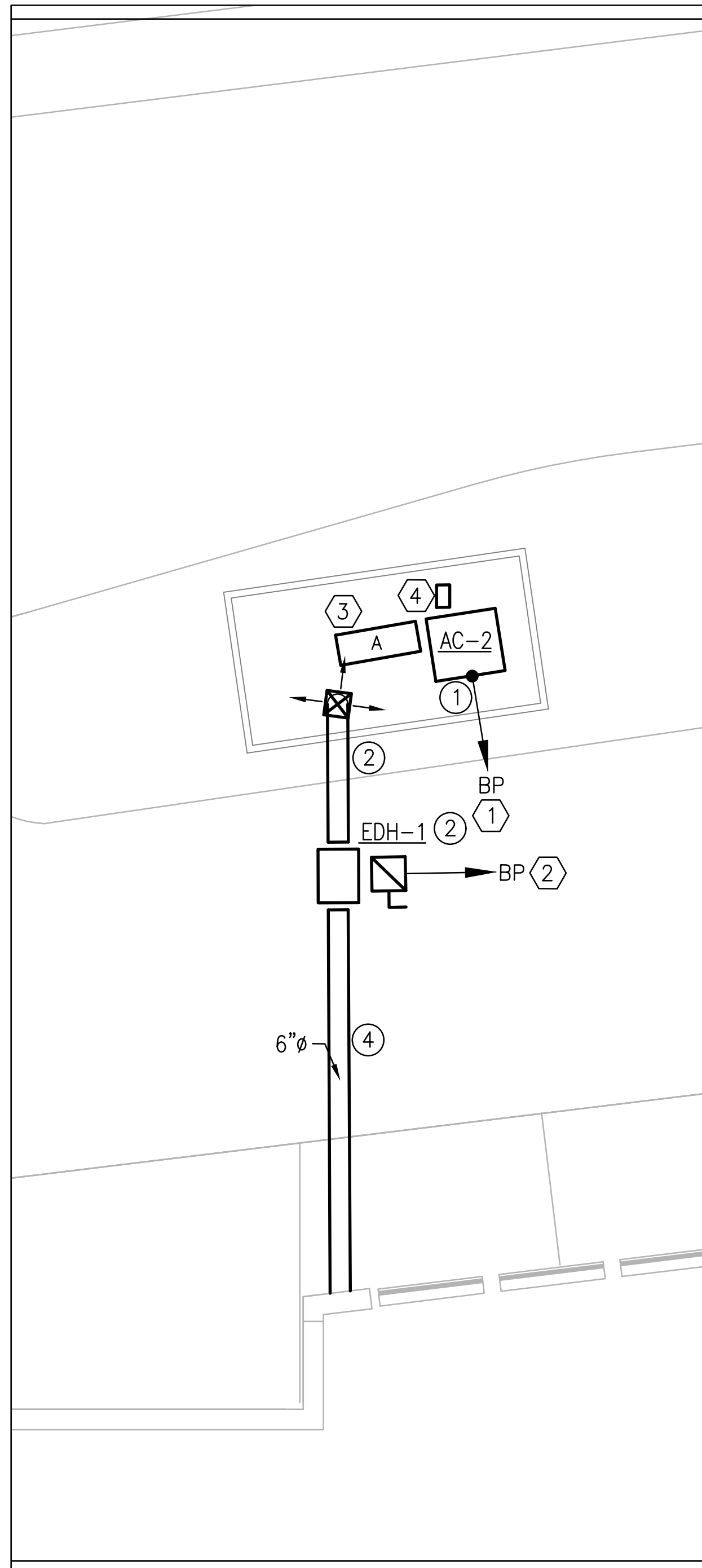
REVISIONS
DRAWING TITLE
CROWN STREET
MECHANICAL
-ELECTRICAL
PLANS

DRAWING NO.
ME-1.2

SCALE: AS NOTED
DATE: AUGUST 2025
PROJECT NO. 20-24180.00-2
NHPA NO. 24-029
DESIGN K.D.S. DRAWN K.D.S. CHK'D. K.D.S.
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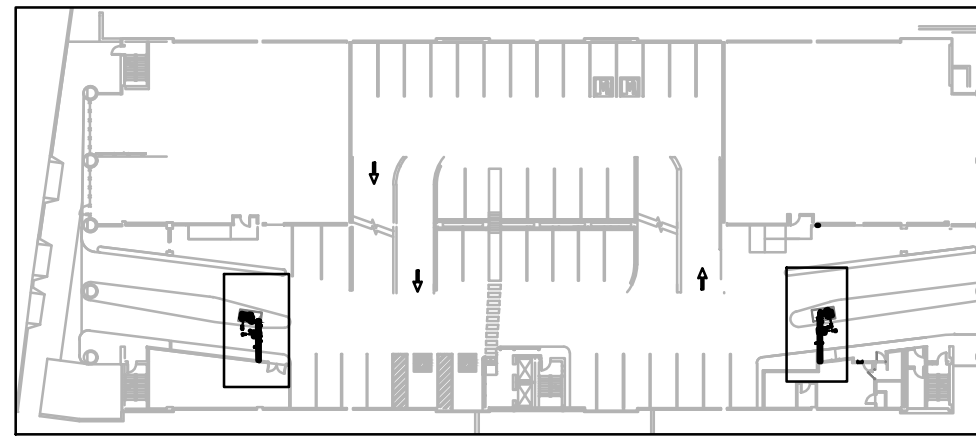
GEORGE STREET EXIT PLAN
SCALE: 3/8" = 1"



M.L.K. JR. BLVD EXIT PLAN
SCALE: 3/8" = 1"

TEMPLE MEDICAL KEY PLAN

SCALE: 1/64" = 1"

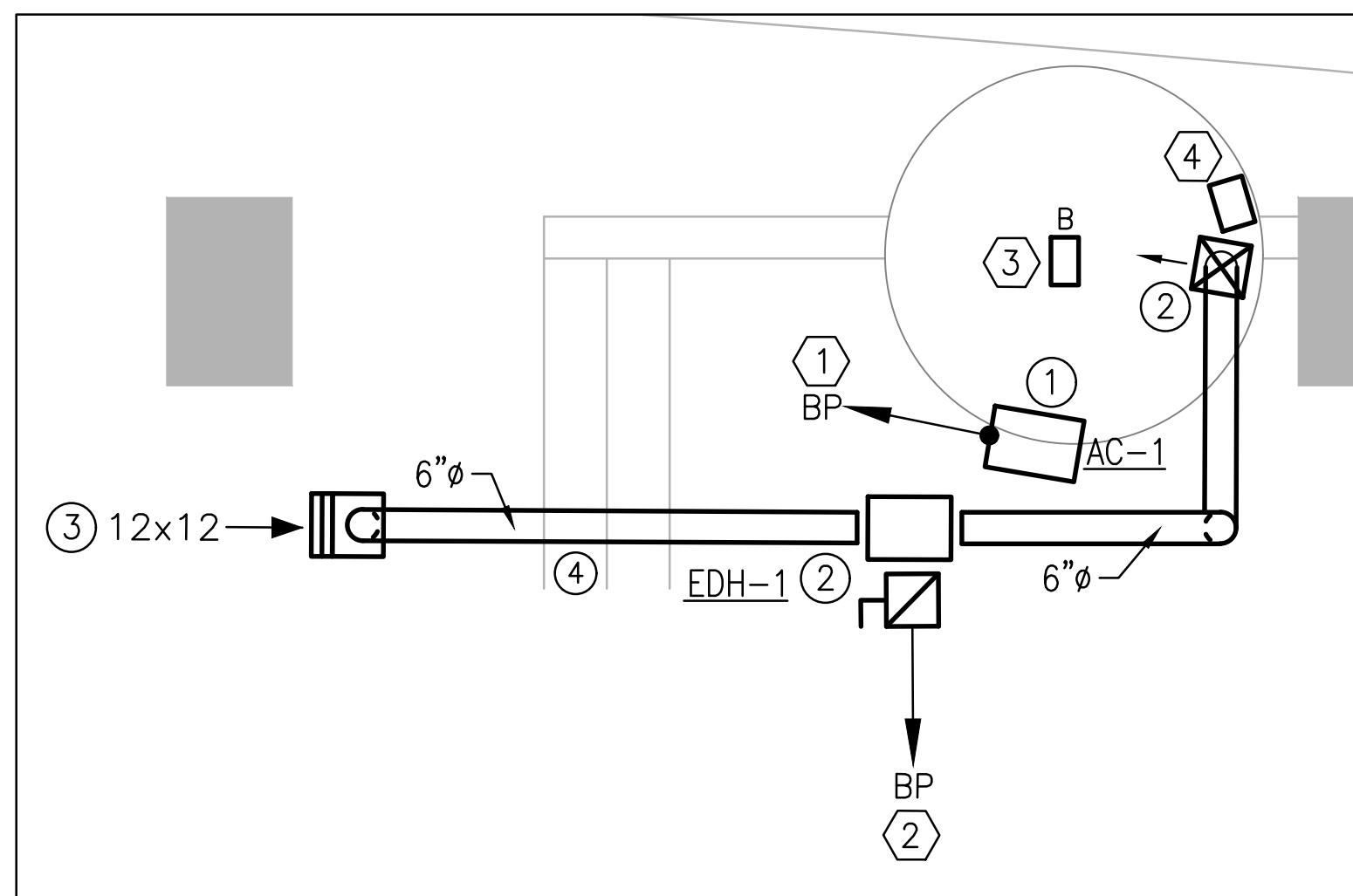


MECHANICAL PLAN NOTES

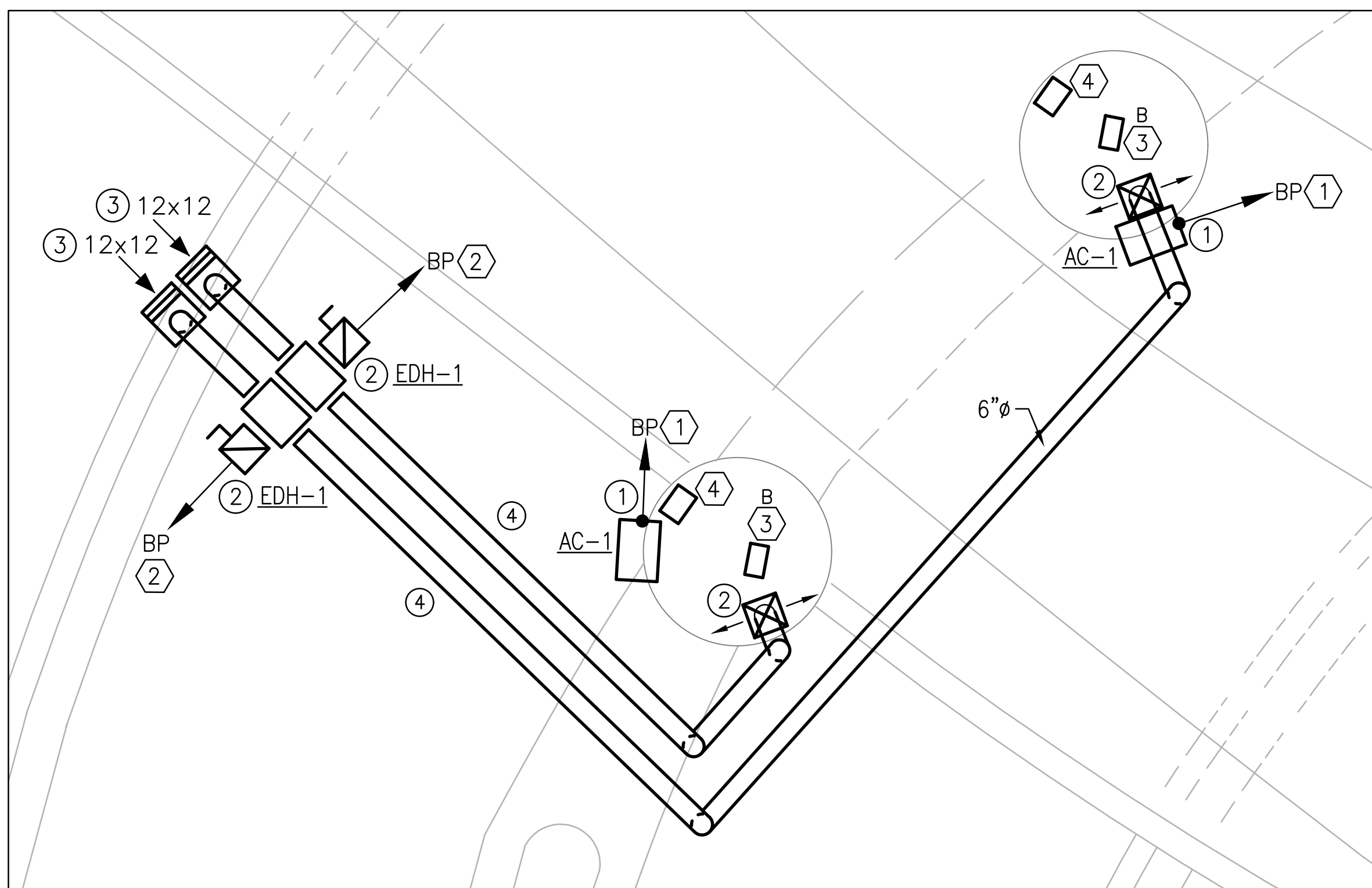
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ELECTRICAL PLAN NOTES

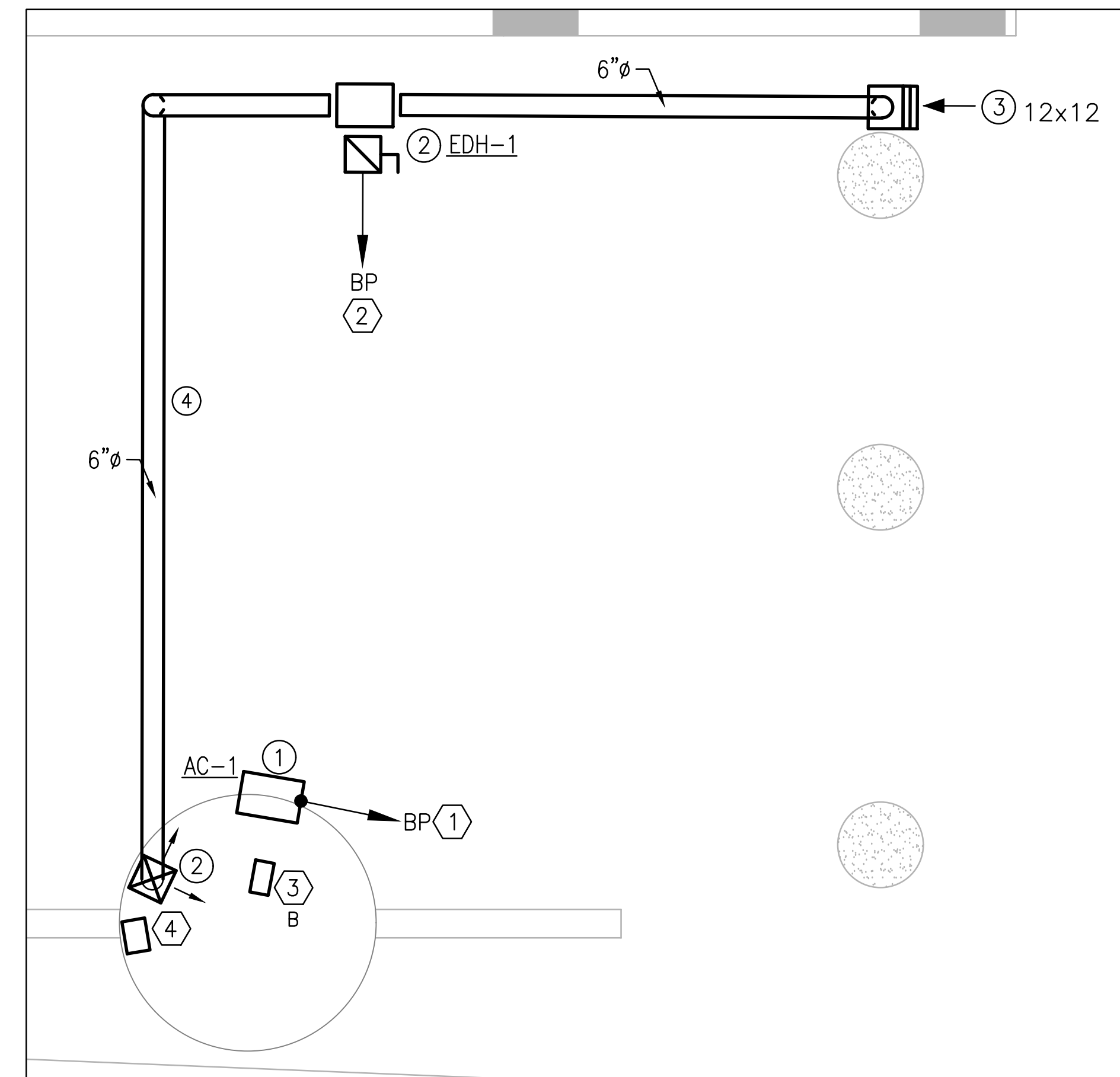
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GEORGE STREET SIDE FLOOR PLAN
SCALE: 3/8" = 1"



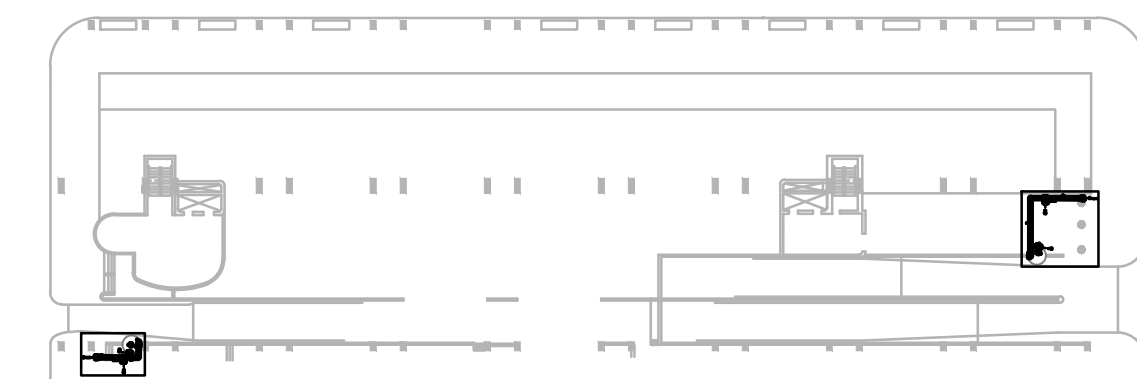
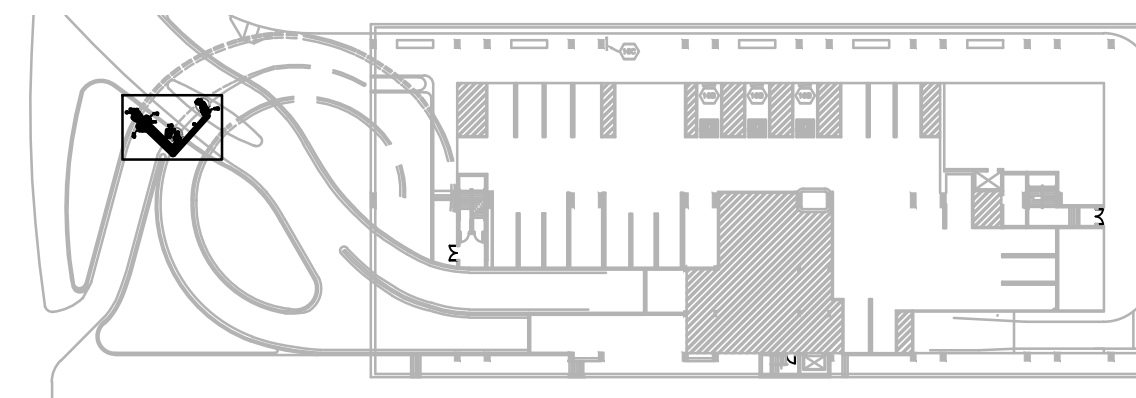
M.L.K.JR. BLVD SIDE FLOOR PLAN
SCALE: 3/8" = 1"



CROWN STREET SIDE FLOOR PLAN
SCALE: 3/8" = 1"

TEMPLE STREET KEY PLAN

SCALE: 1/64" = 1"



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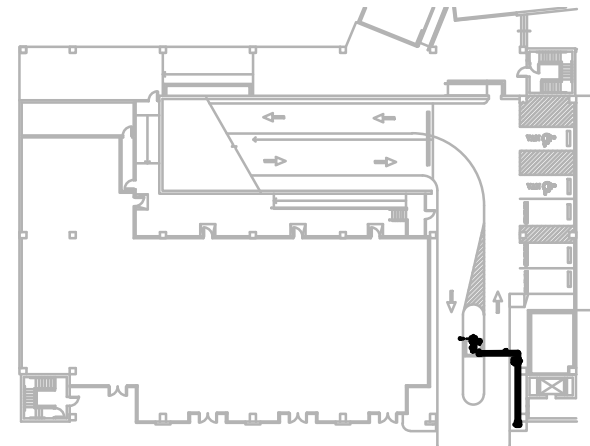
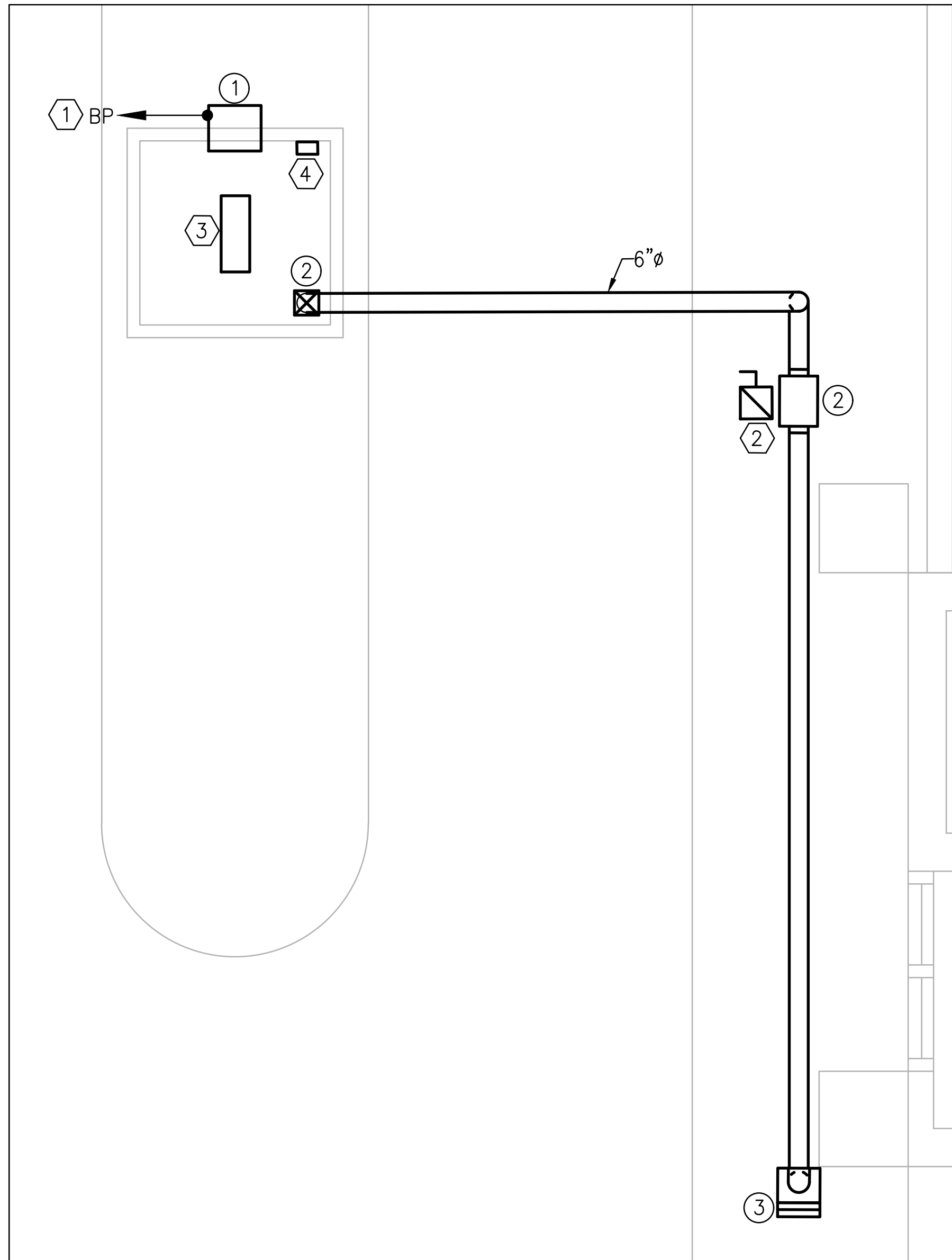
PARKING ACCESS & REVENUE CONTROL SYSTEM REPLACEMENT
AT
NEW HAVEN PARKING AUTHORITY FACILITIES
NEW HAVEN, CONNECTICUT

NO. DATE BY

REVISIONS
DRAWING TITLE
TEMPLE STREET /
TEMPLE MEDICAL,
MECHANICAL -
ELECTRICAL PLANS

DRAWING NO.
ME-1.3

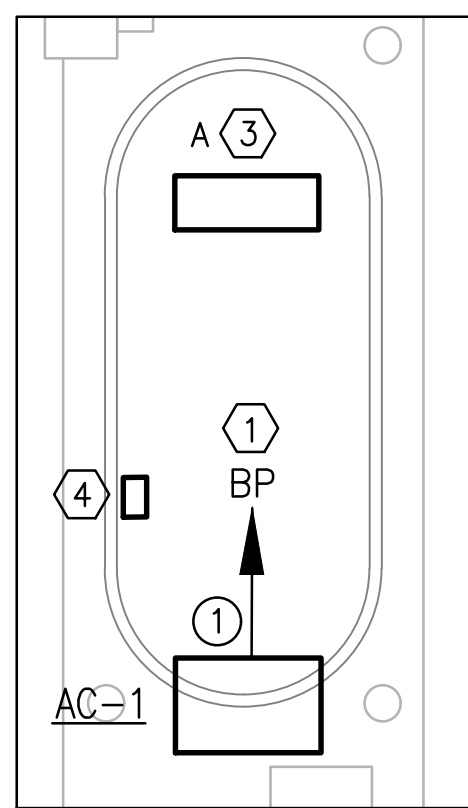
SCALE: AS NOTED
DATE: AUGUST 2025
PROJECT NO. 25-24180.00-2
NHPA NO. 24-029
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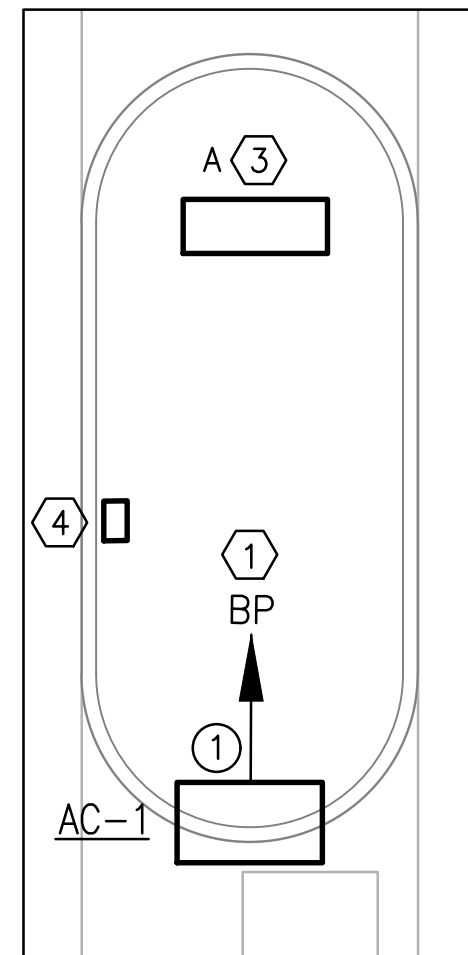
STATE STREET BOOTH PLAN
SCALE: 3/8" = 1'



GRANITE SQUARE KEY PLAN
SCALE: 1/64" = 1'



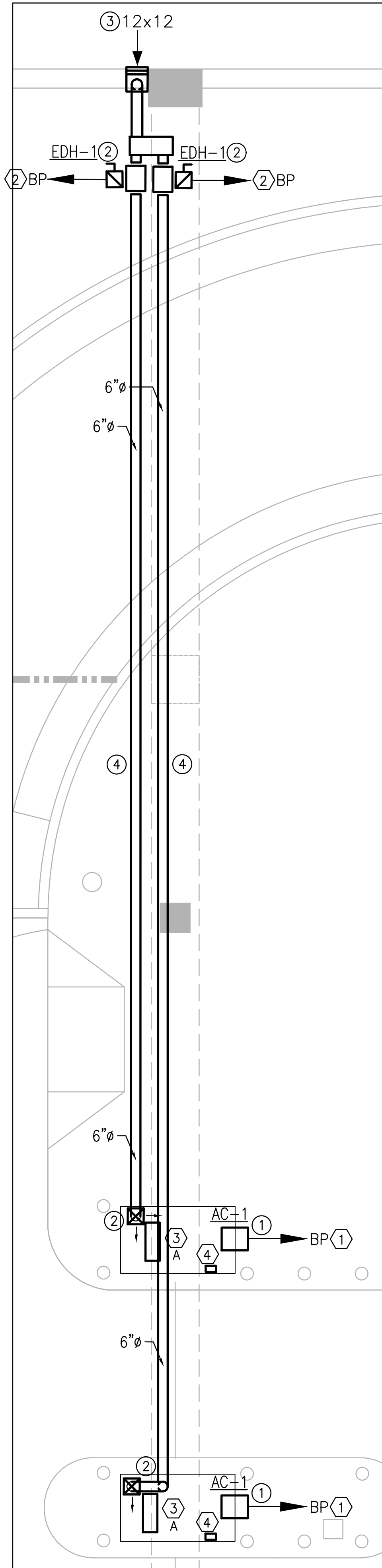
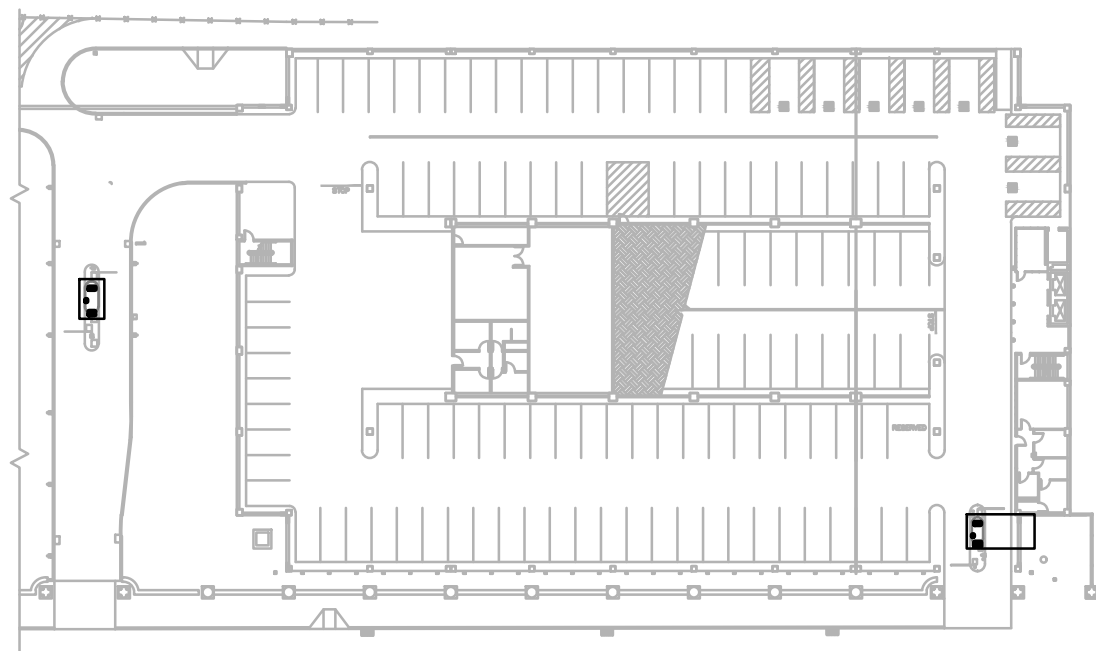
INDOOR BOOTH PLAN
SCALE: 3/8" = 1'



OUTDOOR BOOTH PLAN
SCALE: 3/8" = 1'



UNION STATION KEY PLAN
SCALE: 1/64" = 1'



LEVELS 2 NEAR OFFICE PLANS
SCALE: 1/4" = 1'

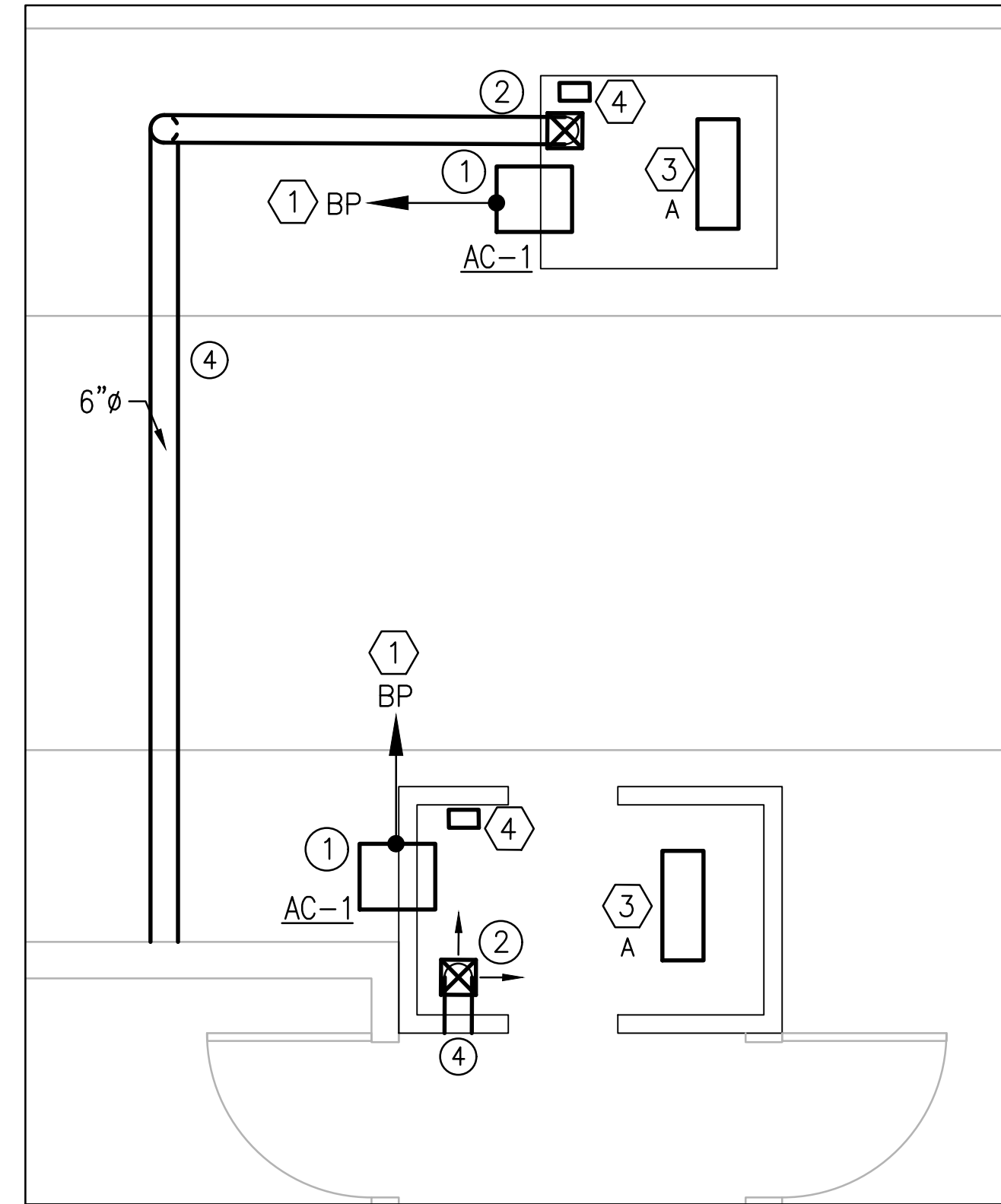


MECHANICAL PLAN NOTES

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ELECTRICAL PLAN NOTES

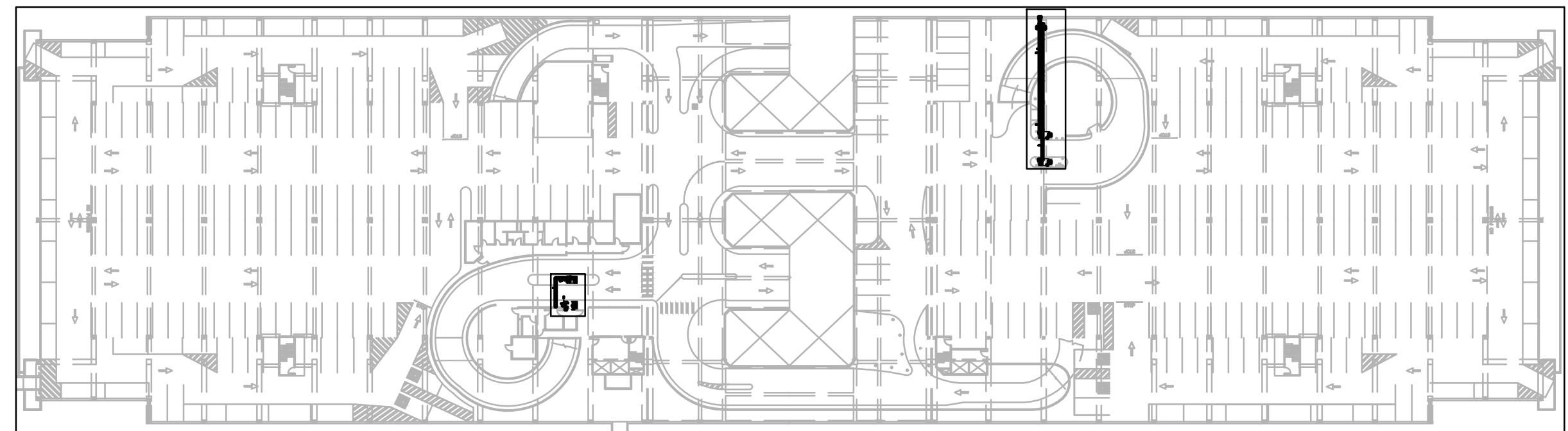
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S FRONTAGE RD EXIT PLANS
SCALE: 3/8" = 1'



AIR RIGHTS KEY PLAN
SCALE: 1/64" = 1'



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PARKING ACCESS & REVENUE CONTROL SYSTEM REPLACEMENT
AT
NEW HAVEN PARKING AUTHORITY FACILITIES
NEW HAVEN, CONNECTICUT

NO.	DATE	BY
REVISIONS		

DRAWING TITLE
AIR RIGHTS /
UNION STATION /
GRANITE SQUARE
MECH-ELEC PLANS

DRAWING NO.

ME-1.4

SCALE: AS NOTED

DATE: AUGUST 2025

PROJECT NO. 20-24180.00-2

NHPA NO. 24-029

DESIGN	DRAWN	CH'D.
K.D.S.	K.D.S.	K.D.S.

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