

# 50 MONROE STREET ELEVATOR MODERNIZATION

City of Rockville  
APPROVED  
2022-1072-ALT

50 MONROE ST.  
ROCKVILLE, MD  
20852

**FM-5**

C. Biggs 03/18/2022

IMPORTANT!!! READ COMMENTS LISTED BELOW.  
THIS COPY OF THE APPROVED PLANS MUST BE ON-SITE AT ALL TIMES.  
General Comments: These plans have been reviewed for general compliance with Chapter 5 of the City of Rockville Code. This approval shall not be construed as to violate, cancel, or set aside any provisions of the Rockville City Code.

INSPECTIONS WILL NOT BE PERFORMED WITHOUT THE APPROVED PLANS.

Any changes to the "APPROVED PLANS" shall be submitted to and approved by this Division prior to the change being made in the field.

The APPROVED plans must be on-site for all inspections.  
Plans MUST be printed to scale.

APPROVED  
THIS APPROVAL SHALL NOT BE  
CONSTRUED AS TO VIOLATE  
CANCEL OR SET ASIDE ANY  
PROVISION OF THE  
ROCKVILLE CITY CODE  
CITY OF ROCKVILLE, MARYLAND  
INSPECTION SERVICES DIVISION

Martin Dasher 03/21/2022

DELTA PROJECT NO. 2019.331.003  
FEBRUARY 16, 2022  
100% SUBMISSION

**SEE FIRE MARSHAL  
REVIEW COMMENTS**

These plans have been reviewed for general compliance with NFPA 101, Chapter 5 of the City of Rockville Building Code and Chapter 9, City of Rockville Fire code.

Every ramp used as a component in a means of egress shall conform to the general requirements of Section 7.1 and to the special requirements of 7.2.5.

Walking surfaces shall comply with all of the following:

- (1) Walking surfaces shall be nominally level.
- (2) The slope of a walking surface in the direction of travel shall not exceed 1 in 20, unless the ramp requirements of 7.2.5 are met.
- (3) The slope perpendicular to the direction of travel shall not exceed 1 in 48. NFPA 101, 7.1.6.3.1.

Walking surfaces in the means of egress shall be slip resistant under foreseeable conditions. NFPA 101, 7.1.6.4.

Where a ramp is used to meet the requirements of 7.1.7.2, the presence and location of ramped portions of walkways shall be readily apparent. NFPA 101, 7.1.7.2.1.

This approval shall not be construed as to violate, cancel or set aside any provisions of the Rockville City Code.

All Inspections must be requested at least 24 hours in advance by calling 240 314-5040.

INSPECTIONS WILL NOT BE PERFORMED WITHOUT THE APPROVED PLANS.

New ramps shall be in accordance with NFPA 101, Table 7.2.5.3(a), Table 7.2.5.3(a) New Ramps

Dimensional Criteria:

- Minimum width clear of all obstructions, except projections not more than 4 1/2 in. (114 mm) at or below handrail height on each side is 44 inches.
- The Maximum slope 1 in 12 inches
- The Maximum cross slope 1 in 48 inches
- The Maximum rise for a single ramp run 30 inches

Ramp construction shall be as follows:

- (1) All ramps serving as required means of egress shall be of permanent fixed construction.
- (2) Ramps constructed with fire-retardant-treated wood shall be not more than 30 in. (760 mm) high, shall have an area of not more than 3000 ft<sup>2</sup> (277 m<sup>2</sup>), and shall not occupy more than 50 percent of the room area.
- (3) Ramps and intermediate landings shall continue with no decrease in width along the direction of egress travel. NFPA 101, 7.2.5.4.2.

Ramp Landings shall be as follows:

- (1) Ramps shall have landings located at the top, at the bottom, and at door leaves opening onto the ramp.
- (2) The slope of the landing shall be not steeper than 1 in 48.
- (3) Every landing shall have a width not less than the width of the ramp.
- (4) Every landing, except as otherwise provided in 7.2.5.4.2(5), shall be not less than 60 in. (1525 mm) long in the direction of travel, unless the landing is an approved existing landing.
- (5) Where the ramp is not part of an accessible route, the ramp landings shall not be required to exceed 48 in. (1220 mm) in the direction of travel, provided that the ramp has a straight run.
- (6) Any changes in travel direction shall be made only at landings, unless the ramp is an existing ramp.
- (7) Ramps and intermediate landings shall continue with no decrease in width along the direction of egress travel. NFPA 101, 7.2.5.4.2.

Handrails are required on both sides of ramp run with a rise greater than 6 inches (150 mm). NFPA 101, 7.2.5.5.2.

Provide guards not less than 42" high and such that a 4" sphere cannot pass through any opening, up to a height of 34", in accordance with Chapter 7.

Any Electrical installations shall be in accordance with NFPA 70, The National Electrical Code. All electrical equipment must be clearly labeled, marked or stamped with the symbol of an electrical testing laboratory approved by the Maryland State Fire Marshal.

Review and permit issuance by the City of Rockville Fire Marshal's Office shall not relieve the applicant of the responsibility of compliance with this Code. NFPA 1, Section 1.14.4.

When required by the AHJ, revised construction documents or shop drawings shall be prepared and submitted for review and approval to illustrate corrections or modifications necessitated by field conditions or other revisions to approved plans. NFPA 1, 1.14.5.

## PROJECT SUMMARY

THE PROJECT INCLUDES TWO DISTINCT AND RELATED SCOPES OF WORK, AS FOLLOWS.

1. SCOPE OF WORK 1: SCOPE OF WORK 1 INCLUDES ALL WORK ASSOCIATED WITH THE INSTALLATION OF A NEW TEMPORARY RAMP SYSTEM TO PROVIDE ACCESSIBILITY ACCESS FROM THE PLAZA LEVEL THAT CONNECTS TO THE ROCKVILLE METRO STATION TO THE STREET LEVEL AT MONROE STREET. THE WORK INCLUDES THE RAMP SYSTEM, RAMP BALLAST, AND RAMP LIGHTING. REFERENCE THE DIVISION 1 SPECIFICATIONS, SPECIFICATIONS 055129 "PREFABRICATED ALUMINUM RAMPS", THE ELECTRICAL SPECIFICATIONS ASSOCIATED WITH THE LIGHTING AT THE RAMP, AND DRAWINGS A-101, A-201, A-301, A-401, A501 AND E-102 FOR INFORMATION REGARDING SCOPE OF WORK 1.

AT THE DISCRETION OF THE CITY OF ROCKVILLE, THE WORK ASSOCIATED WITH SCOPE OF WORK 1 MAY BE CONTRACTED FIRST, SEPARATELY FROM THE CONTRACT FOR SCOPE OF WORK 2.

2. SCOPE OF WORK 2: SCOPE OF WORK 2 INCLUDES ALL WORK ASSOCIATED WITH THE REPAIR AND MODERNIZATION OF THE EXISTING ELEVATOR, INCLUDING RENOVATIONS IN THE ELEVATOR MACHINE ROOM AND ELECTRICAL ROOM AND IMPROVEMENTS TO THE EXISTING ELEVATOR ENCLOSURE. REFERENCE THE DIVISION 1 SPECIFICATIONS, SPECIFICATIONS 096516 "RESILIENT SHEET FLOORING", SPECIFICATION 142423 "HYDRAULIC PASSENGER ELEVATORS" THE ELECTRICAL AND MECHANICAL SPECIFICATIONS, AND DRAWINGS A-101, A-201, E-001, E-002, E-101, AND M-001 FOR INFORMATION REGARDING SCOPE OF WORK 2.

AT THE DISCRETION OF THE CITY OF ROCKVILLE, THE WORK ASSOCIATED WITH SCOPE OF WORK 2 MAY BE CONTRACTED SEPARATELY AND AFTER THE CONTRACT FOR SCOPE OF WORK 1

## INDEX OF DRAWINGS

### GENERAL

G-001 TITLE SHEET

### ARCHITECTURAL

A-101 PLANS  
A-201 ELEVATIONS  
A-301 ENLARGED PLANS  
A-401 ENLARGED SECTIONS  
A-501 DETAILS

### ELECTRICAL

E-001 ELEC. COVER SHEET  
E-002 ELEC. NOTES & SCHEDULES  
ED-101 FIRST FLOOR, ELECTRICAL, DEMOLITION  
E-101 FIRST FLOOR, ELEC. NEW WORK  
E-102 RAMP ELEC. NEW WORK

### MECHANICAL

M-001 MECHANICAL COVER SHEET

## CODES

### APPLICABLE CODES:

1. INTERNATIONAL BUILDING CODE, 2018
2. INTERNATIONAL MECHANICAL CODE, 2018
3. NATIONAL ELECTRIC CODE (NFPA 70) 2017
4. ADA STANDARDS, 2010
5. NFPA 1 FIRE CODE, 2018
6. NFPA 101 LIFE SAFETY CODE, 2018
7. NFPA 13, 13R, 13D FIRE SPRINKLER CODES, 2016
8. NFPA FIRE ALARM CODE, 2016
9. CITY OF ROCKVILLE CHAPTER 9 LOCAL AMENDMENTS, 2018
10. ELEVATOR CODE APPLICABLE TO THE AHJ.
11. SAFETY CODE FOR ELEVATORS, ASME A17.1 AND ALL SUPPLEMENTS AS MODIFIED AND ADOPTED BY THE AHJ.
12. SAFETY CODE FOR ELEVATORS AND ESCALATORS, A17.1S SUPPLEMENT TO A17.1
13. GUIDE FOR INSPECTION OF ELEVATORS, ESCALATORS, AND MOVING WALKS, ASME A17.2.
14. SAFETY CODE FOR EXISTING ELEVATORS AND ESCALATORS, ASME A17.3 GUIDE FOR EMERGENCY EVACUATION OF PASSENGERS FROM ELEVATORS, ASME A17.4.
15. ASME A17.1/CSA-B44.1 - ELEVATOR AND ESCALATOR ELECTRICAL EQUIPMENT.

Rockville  
Reviewed

Ramps shall have a running slope not steeper than one unit vertical in 12 units horizontal (8-percent slope). [REF: 1012.2, IBC 2018].

The clear width of a ramp between handrails, if provided, or other permissible projections shall be 36 inches minimum. [REF: 1012.5.1, IBC 2018].

Stairs and handrails shall be restored to prior repair state or better upon completion of the project.

Additional permits will be required to be obtained for any Mechanical, Plumbing or Electrical work before the respective work begins.

Fire Alarm permit required.

Obtain elevator permit from State of Maryland as required.

Elevator repairs and improvements shall be installed in accordance with the State of Maryland regulations and requirements. Obtain final approval of State of Maryland elevator inspector prior to building permit inspection.

Field inspections shall determine code compliance.

Must follow the Montgomery County Noise Ordinance during demolition.

No further items found at this time; any future findings will require proper resolution to code conformance. Other agency approvals may be required prior to final inspections.

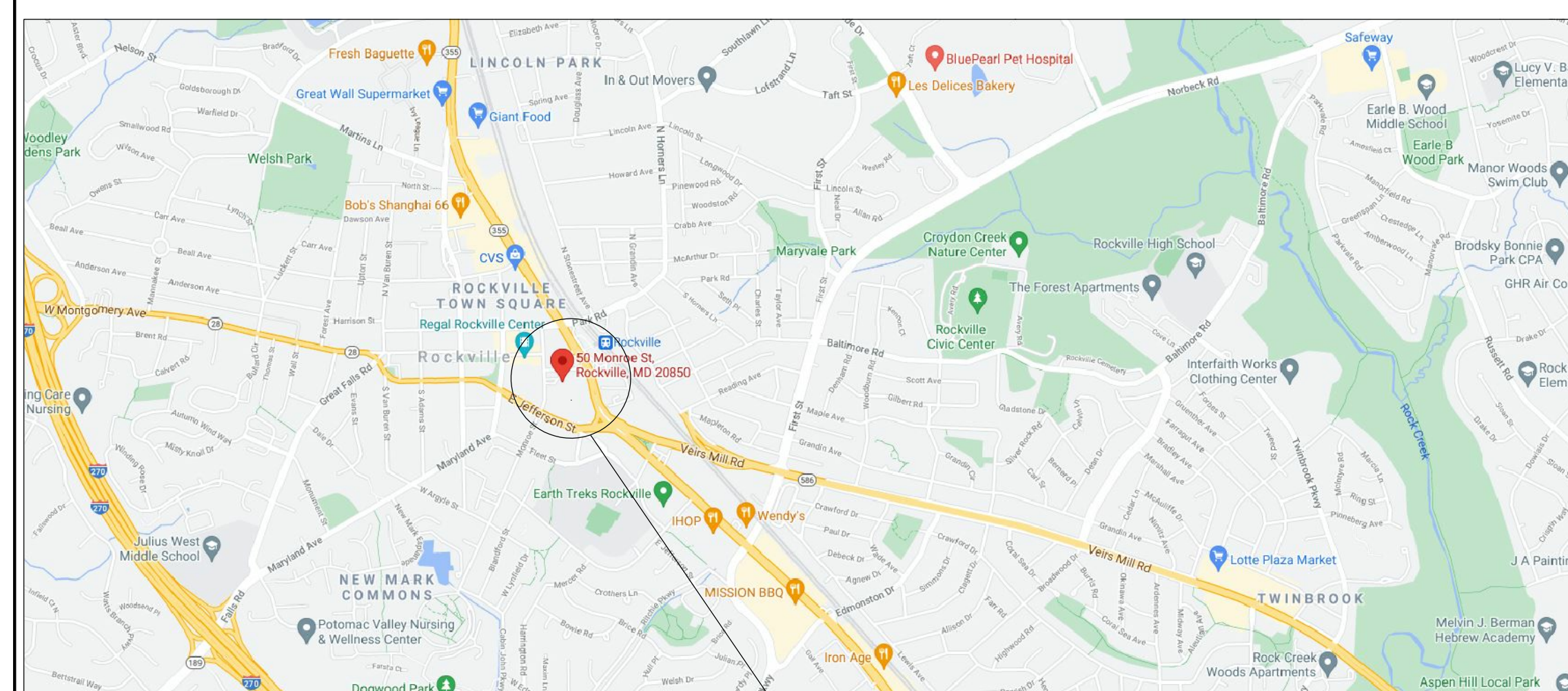
## ARCHITECT/ENGINEER



8401 Connecticut Avenue, Suite 350  
Chevy Chase, MD 20815  
Tel: 301.718.0080  
Fax: 301.718.9520  
Email: mail@delta-eas.com  
www.delta-eas.com



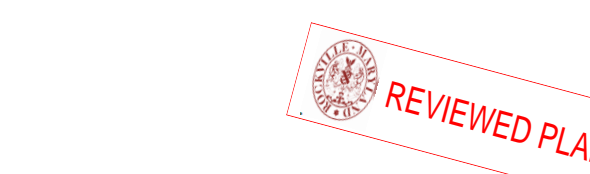
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PROJECT LOCATION

## OWNER

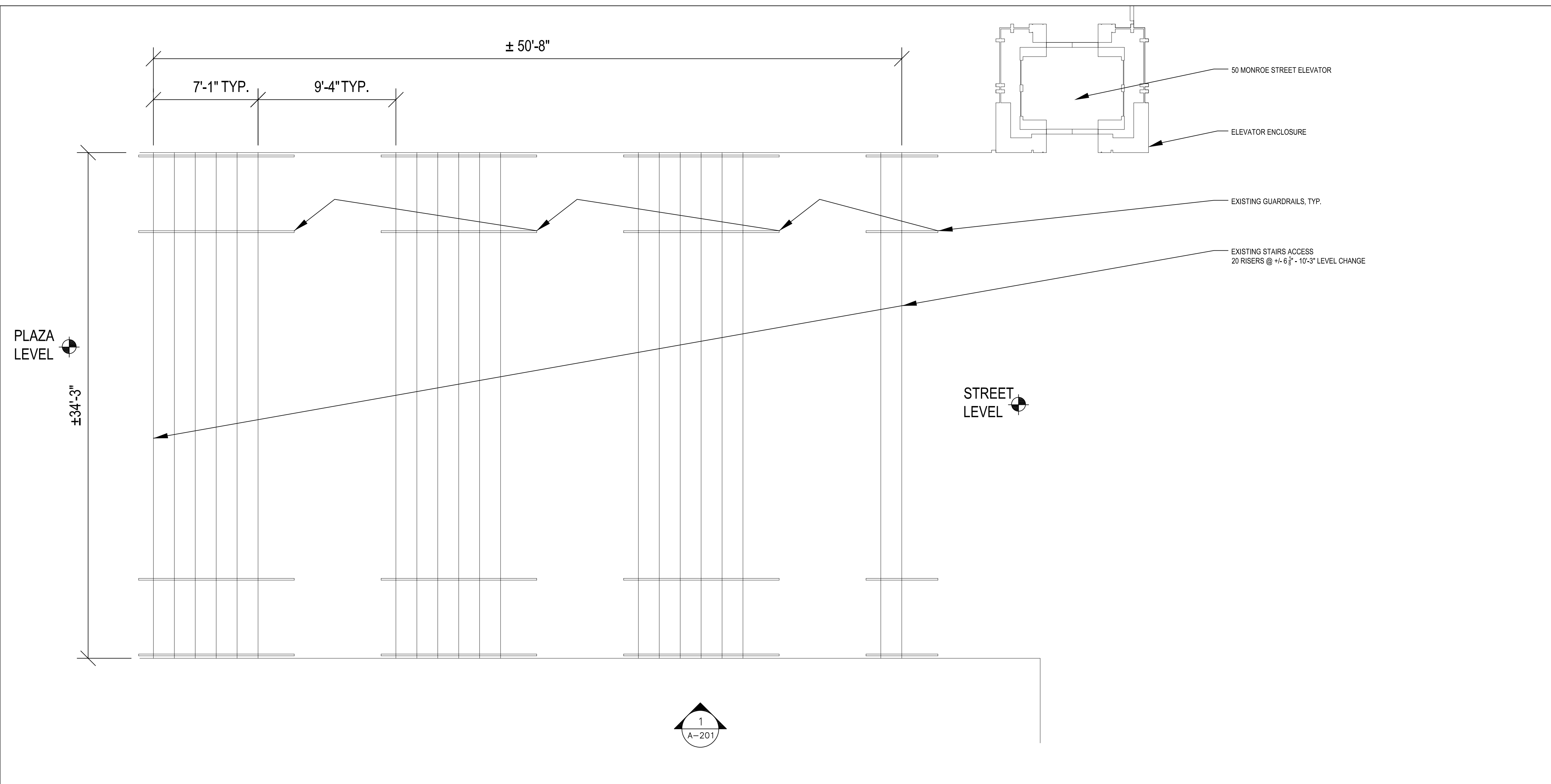
City of Rockville,  
Maryland  
111 Maryland Avenue  
Rockville, Maryland 20850



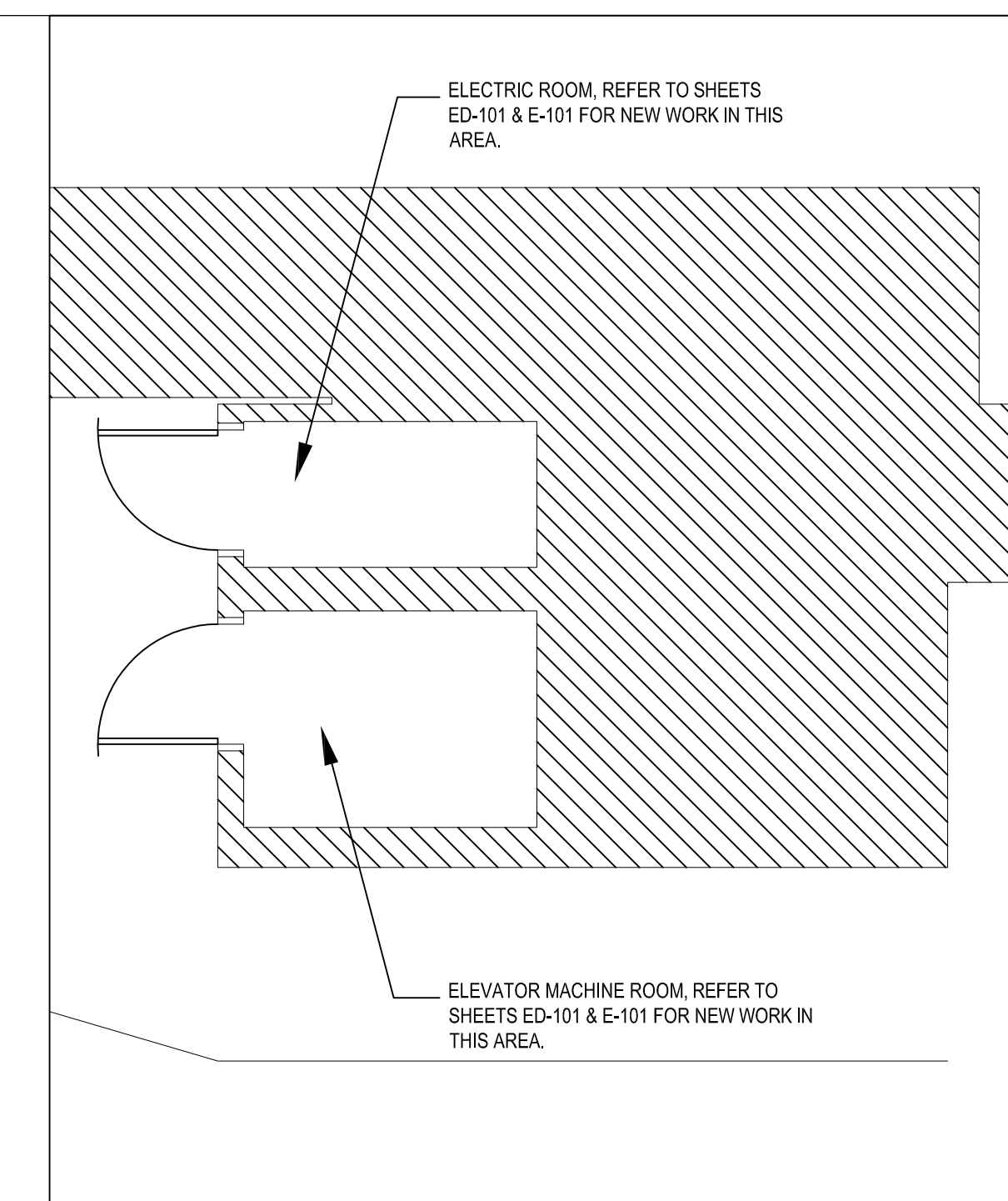
PLEASE READ ALL PLAN  
REVIEW COMMENTS

Construction/Installation subject to  
inspection by Fire Marshal. Schedule all fire  
inspections by visiting:  
[www.rockvillemd.gov/treinspection](http://www.rockvillemd.gov/treinspection)

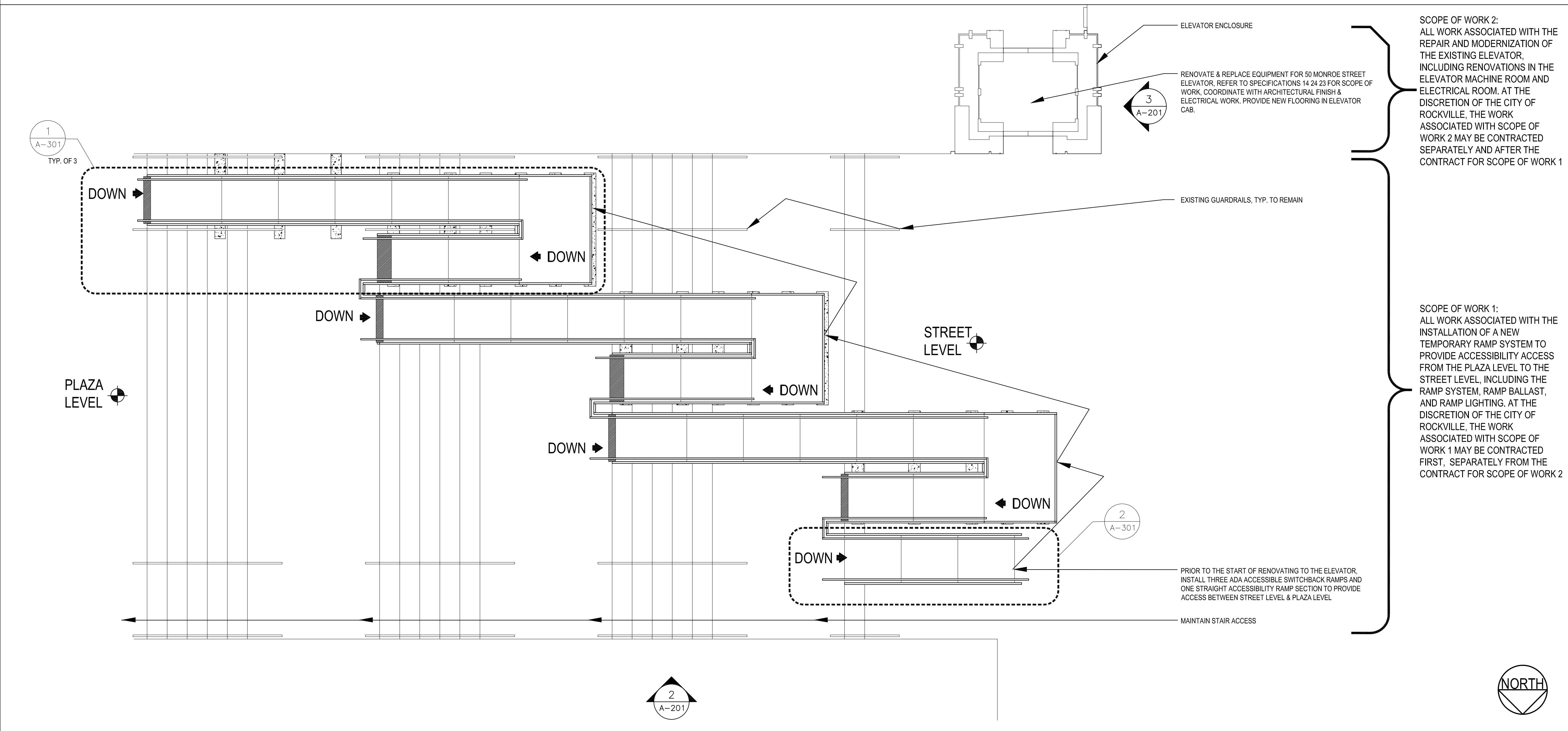
G-001



**1** EXISTING GROUND PLAN: MONROE STREET LEVEL & PLAZA LEVEL  
A-101 SCALE: 1/4"=1'-0"



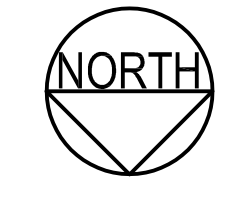
**2** EXISTING BASEMENT PLAN  
A-101 SCALE: 1/4"=1'-0"



**3** NEW WORK GROUND PLAN: MONROE STREET & PLAZA LEVEL  
A-101 SCALE: 1/4"=1'-0"

SCOPE OF WORK 2:  
ALL WORK ASSOCIATED WITH THE REPAIR AND MODERNIZATION OF THE EXISTING ELEVATOR, INCLUDING RENOVATIONS IN THE ELEVATOR MACHINE ROOM AND ELECTRICAL ROOM. AT THE DISCRETION OF THE CITY OF ROCKVILLE, THE WORK ASSOCIATED WITH SCOPE OF WORK 2 MAY BE CONTRACTED SEPARATELY AND AFTER THE CONTRACT FOR SCOPE OF WORK 1

SCOPE OF WORK 1:  
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Key Plan

SCALE: X'-X"

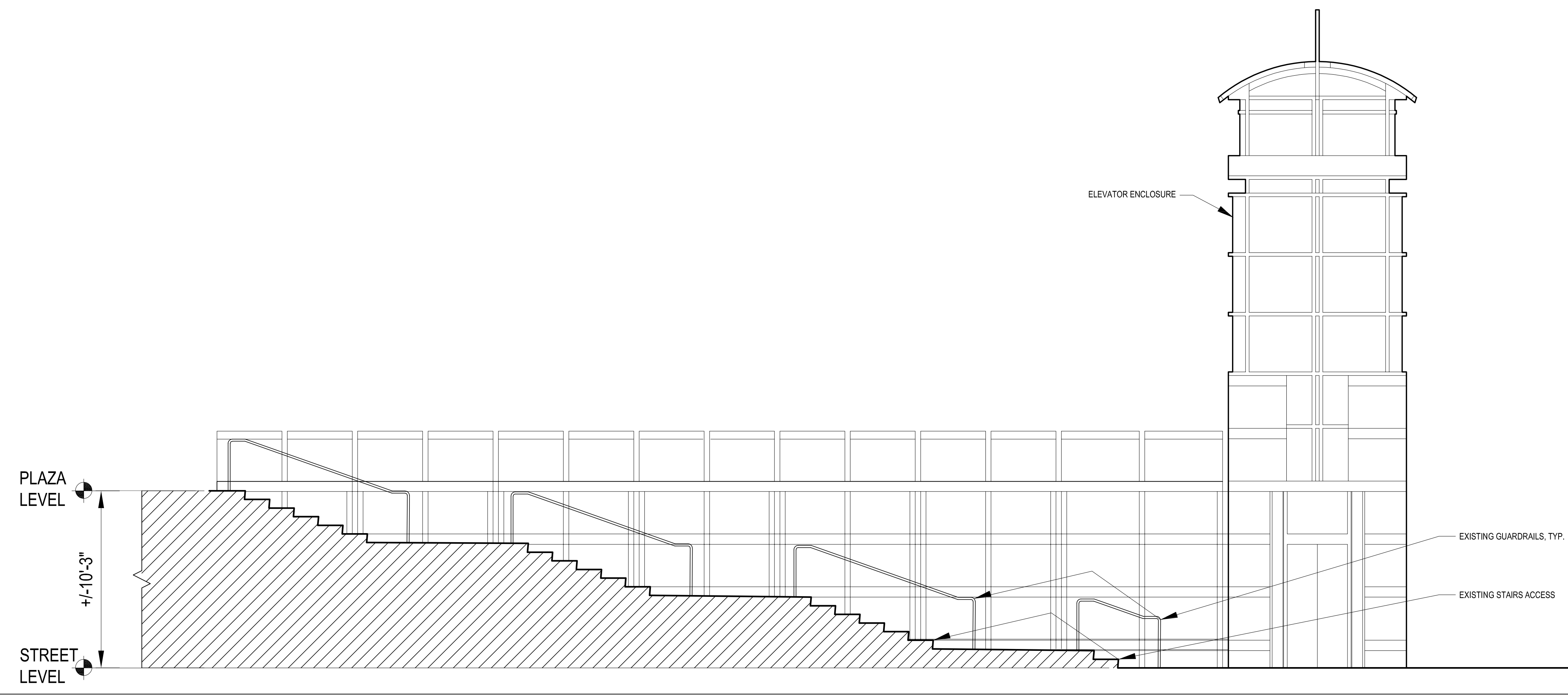
No.	Revision	Date

**DELTA**  
ENGINEERS, ARCHITECTS, & SURVEYORS  
8401 Connecticut Avenue, Suite 350  
Chevy Chase, MD 20815  
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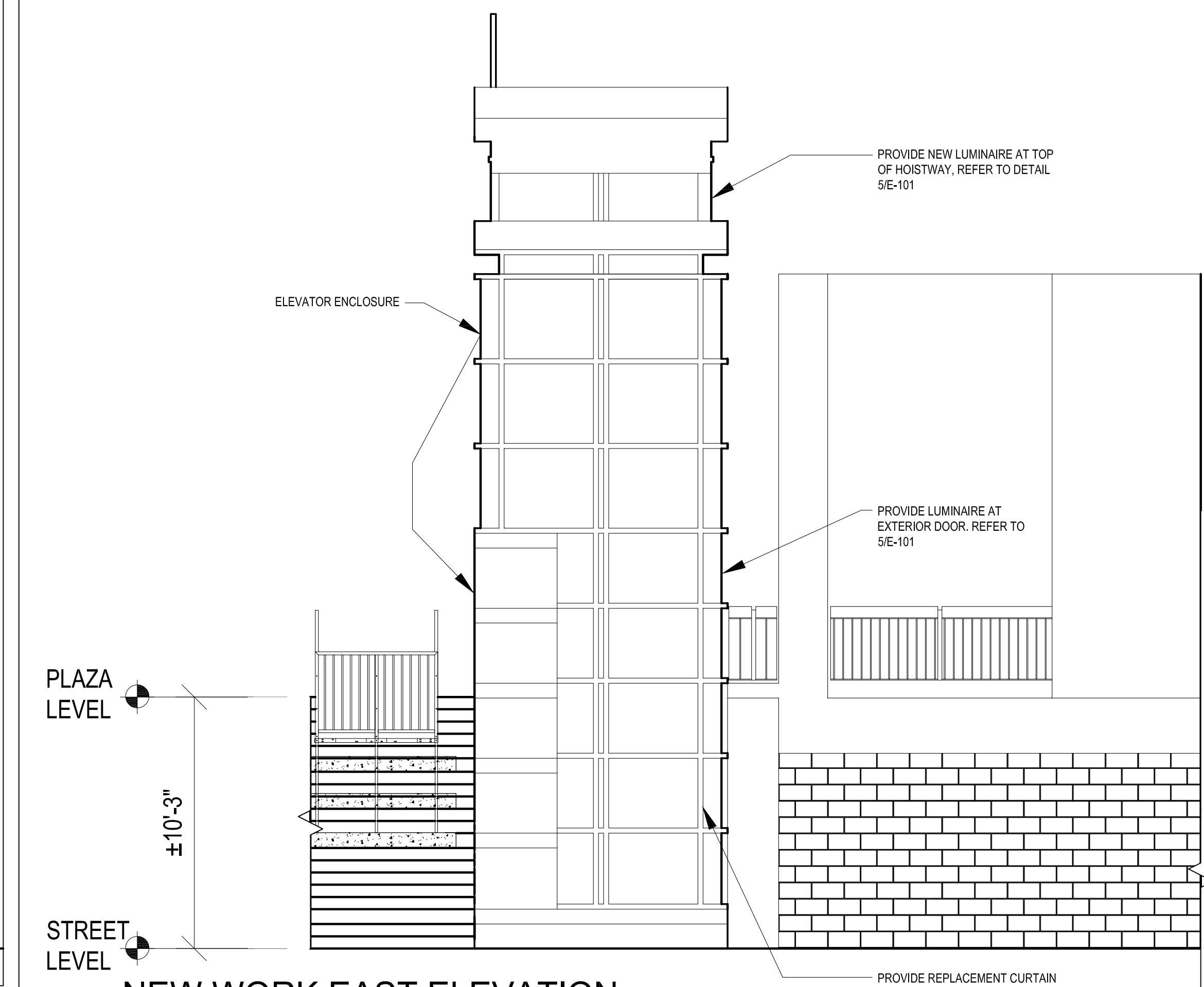
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Phase (PROJECT PHASE):  
Project No.:  
Date:

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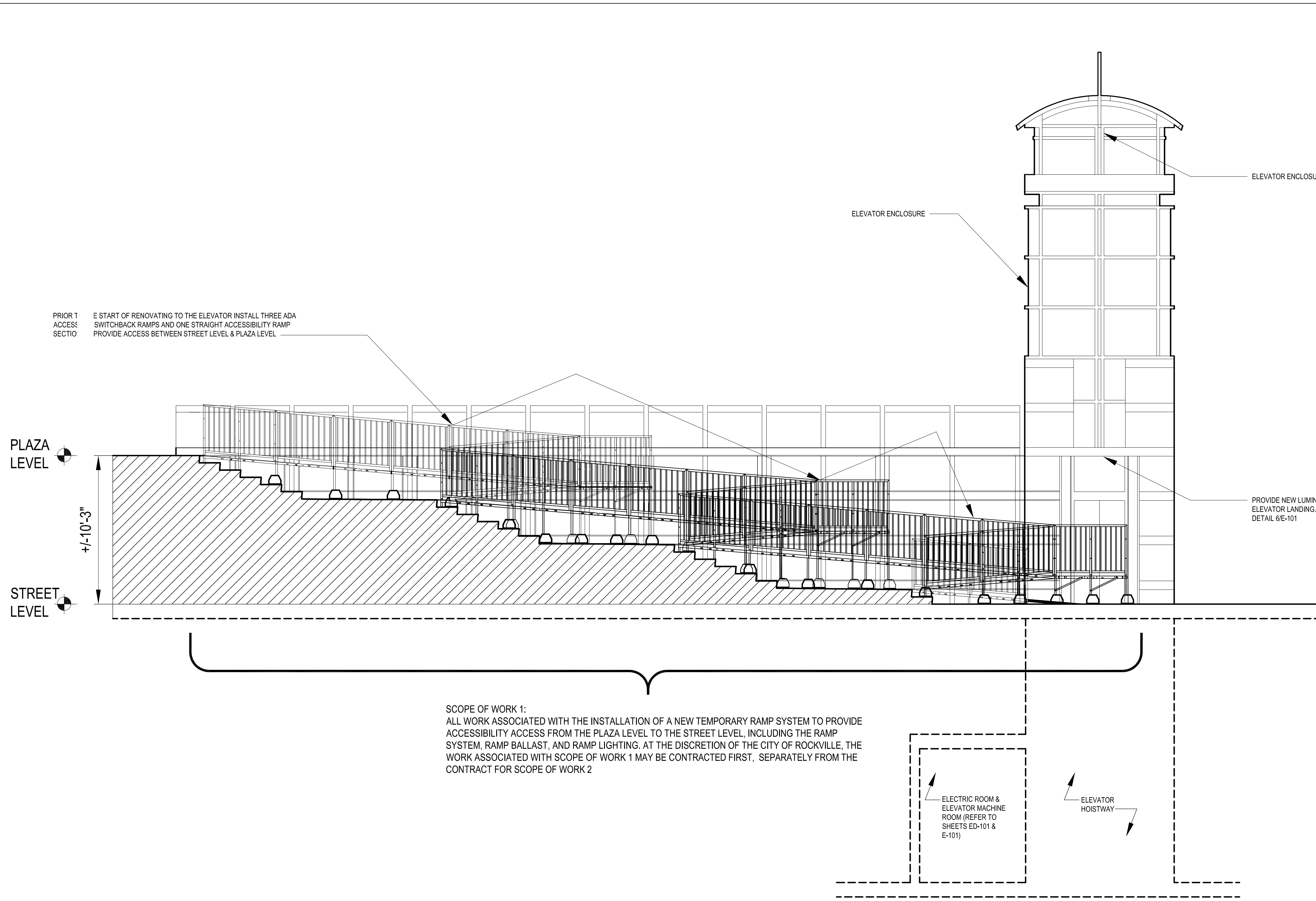
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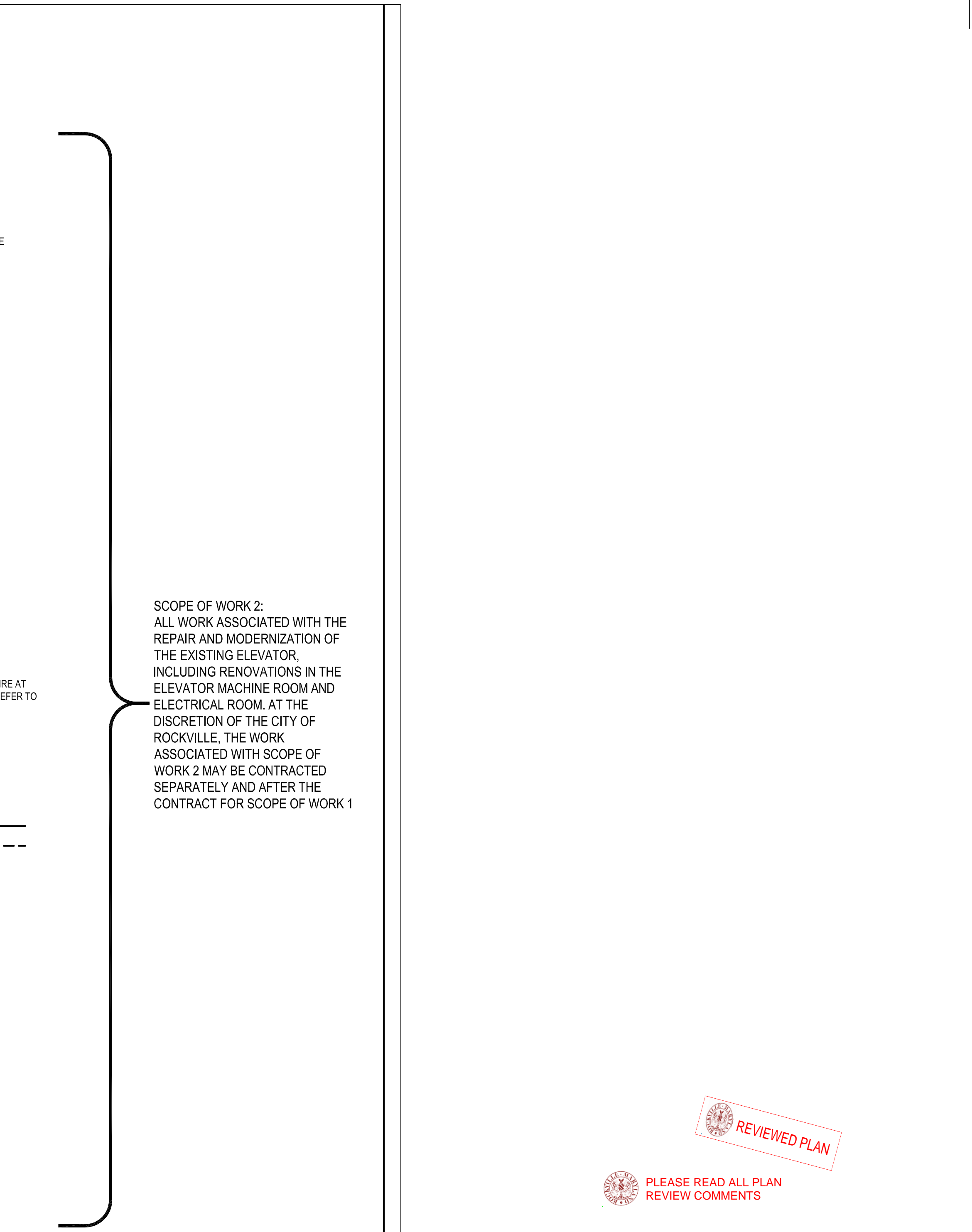
**1** EXISTING SOUTH ELEVATION, PLAZA STAIRS AND ELEVATOR ENCLOSURE  
 A-201 SCALE: 1/4"=1'-0"



**3** NEW WORK EAST ELEVATION, ELEVATOR ENCLOSURE  
 A-201 SCALE: 1/4"=1'-0"



**2** NEW WORK SOUTH ELEVATION, PLAZA STAIRS AND ELEVATOR ENCLOSURE  
 A-201 SCALE: 1/4"=1'-0"



**3** NEW WORK EAST ELEVATION, ELEVATOR ENCLOSURE  
 A-201 SCALE: 1/4"=1'-0"

SCOPE OF WORK 2:  
 ALL WORK ASSOCIATED WITH THE REPAIR AND MODERNIZATION OF THE EXISTING ELEVATOR, INCLUDING RENOVATIONS IN THE ELEVATOR MACHINE ROOM AND ELECTRICAL ROOM. AT THE DISCRETION OF THE CITY OF ROCKVILLE, THE WORK ASSOCIATED WITH SCOPE OF WORK 2 MAY BE CONTRACTED SEPARATELY AND AFTER THE CONTRACT FOR SCOPE OF WORK 1

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Key Plan

SCALE: X'-X"

No.	Revision	Date

Project Name

**DELTA**  
 ENGINEERS ARCHITECTS & SURVEYORS  
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 Chevy Chase, MD 20815  
 Tel: 301.228.0960  
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 www.delta-eas.com

Seal  
 Phase (PROJECT PHASE)  
 Project No.  
 Date

Drawing Title

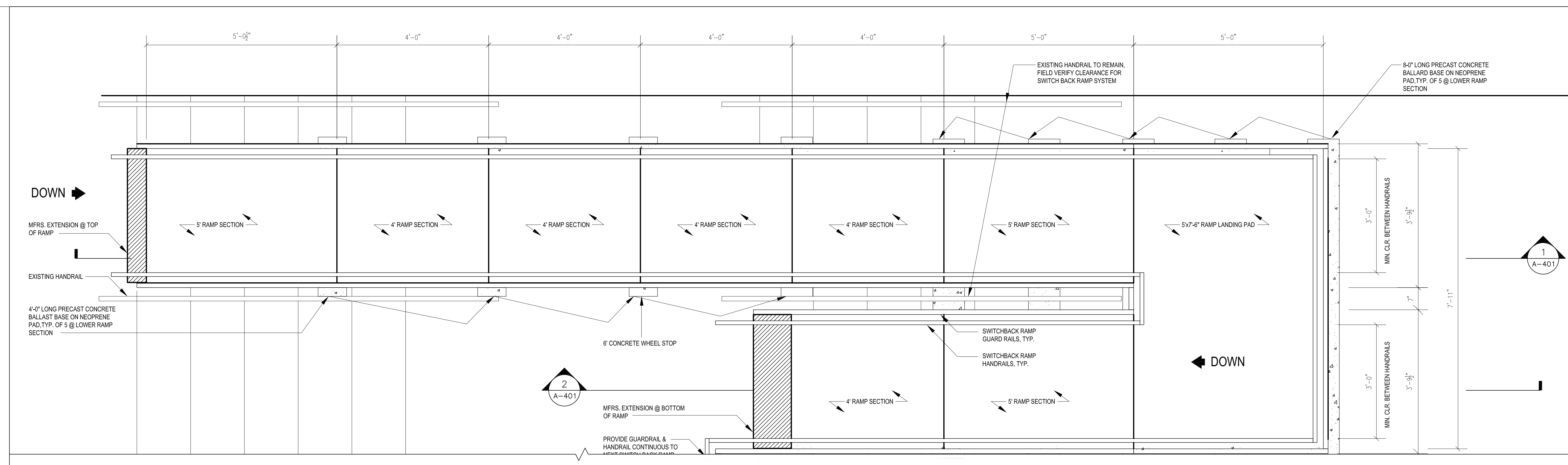
ELEVATIONS

Drawing No.

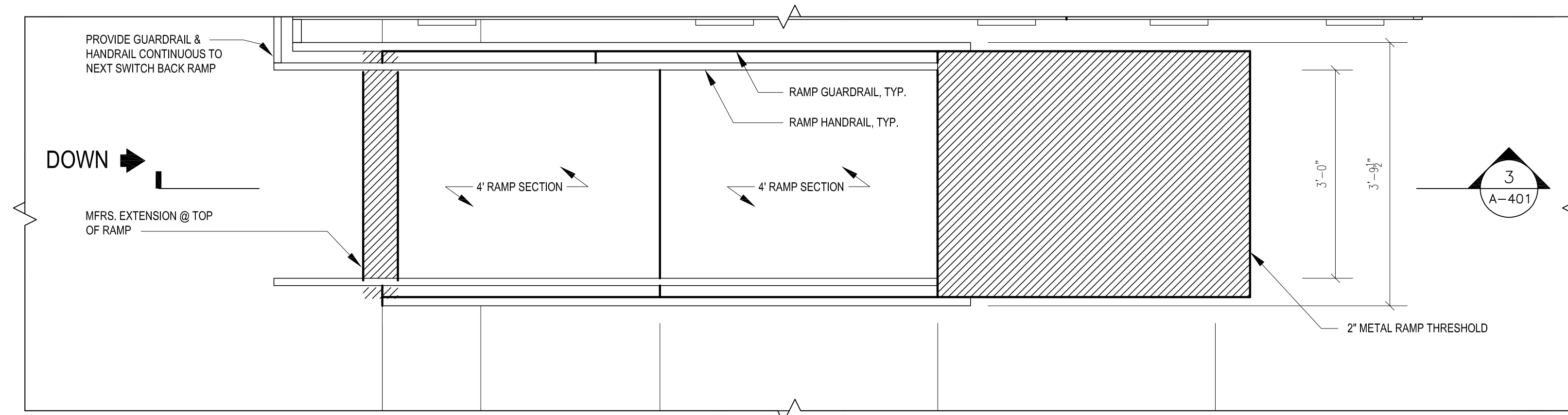
A-201

REVIEWED PLAN  
 PLEASE READ ALL PLAN REVIEW COMMENTS

Construction/Installation subject to inspection by Fire Marshal. Schedule all fire inspections by visiting: [www.rockvillemd.gov/fireinspection](http://www.rockvillemd.gov/fireinspection)



1 ENLARGED PLAN VIEW-SWITCH BACK RAMP, TYP. OF 3  
A-301 SCALE: 3/4"=1'-0"



2 ENLARGED PLAN VIEW-SINGLE RAMP  
A-301 SCALE: 3/4"=1'-0"

Key Plan

SCALE: X'-X"

No.	Revision	Date

Project Name

**DELTA**  
ENGINEERS ARCHITECTS & SURVEYORS  
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www.delta-eas.com

	<b>Phase (PROJECT PHASE)</b> Project No.
	Date

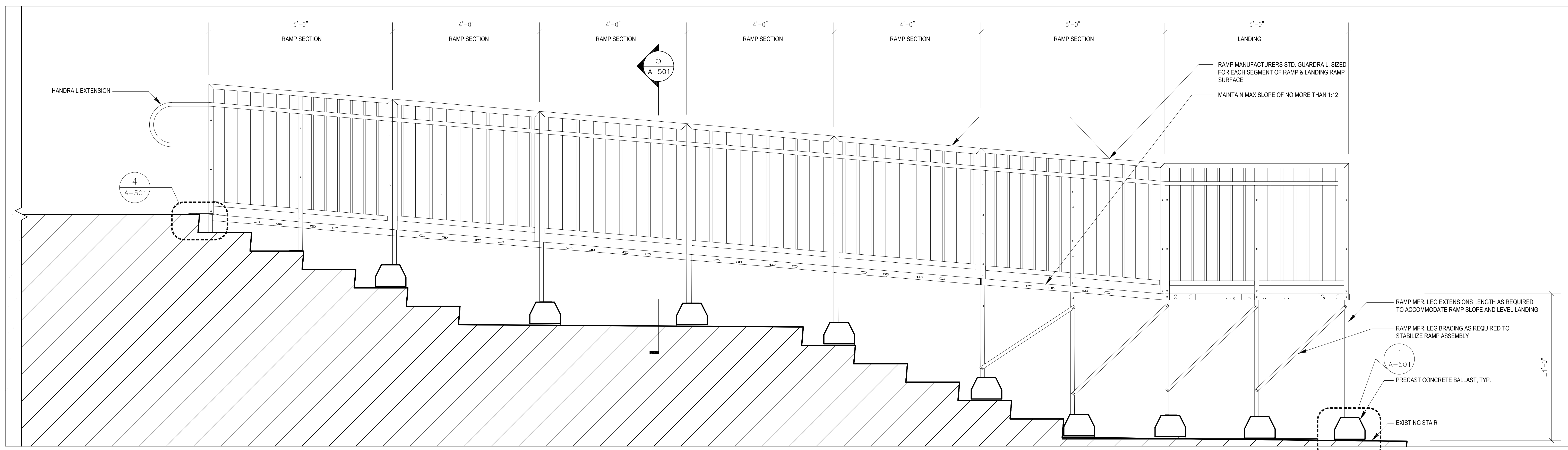
Drawing Title  
ELEVATIONS & PLANS

Drawing No.

A-301

REVIEWED PLAN  
PLEASE READ ALL PLAN REVIEW COMMENTS

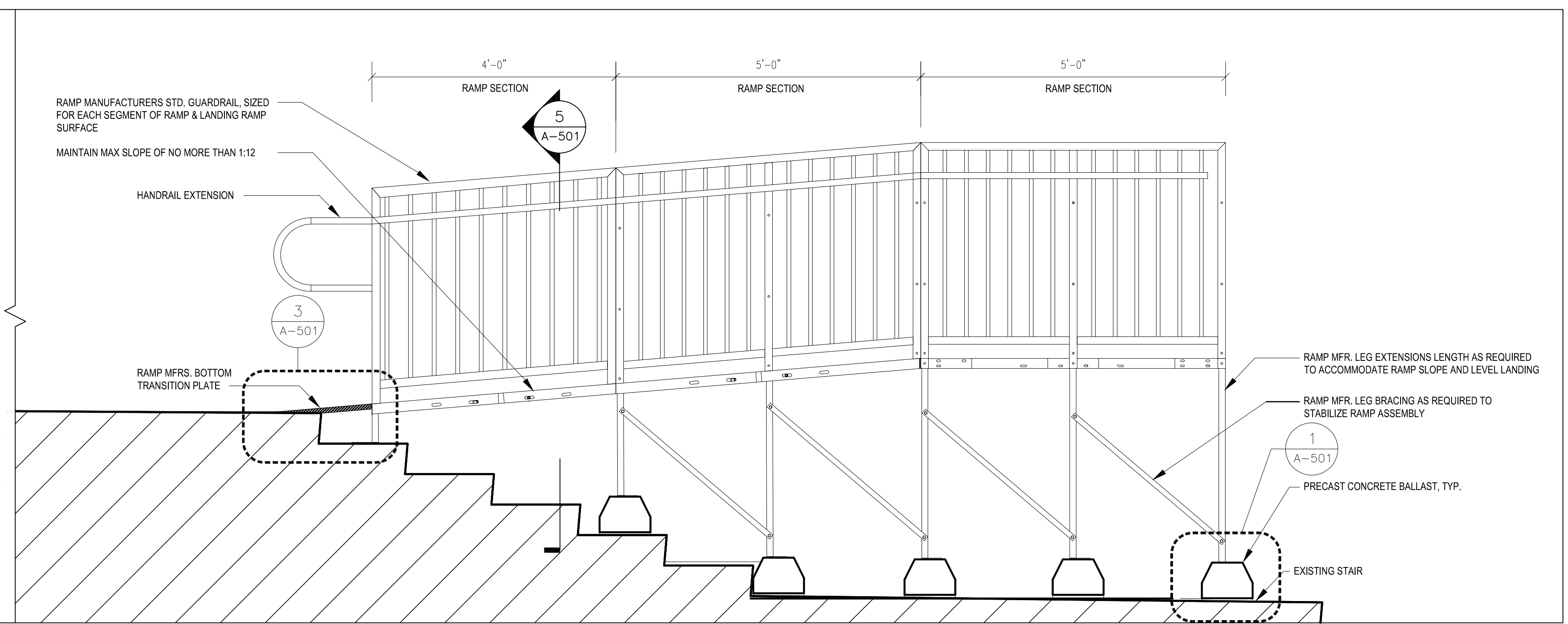
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**SEE FIRE MARSHAL PLAN  
REVIEW COMMENTS ON  
Cover sheet**

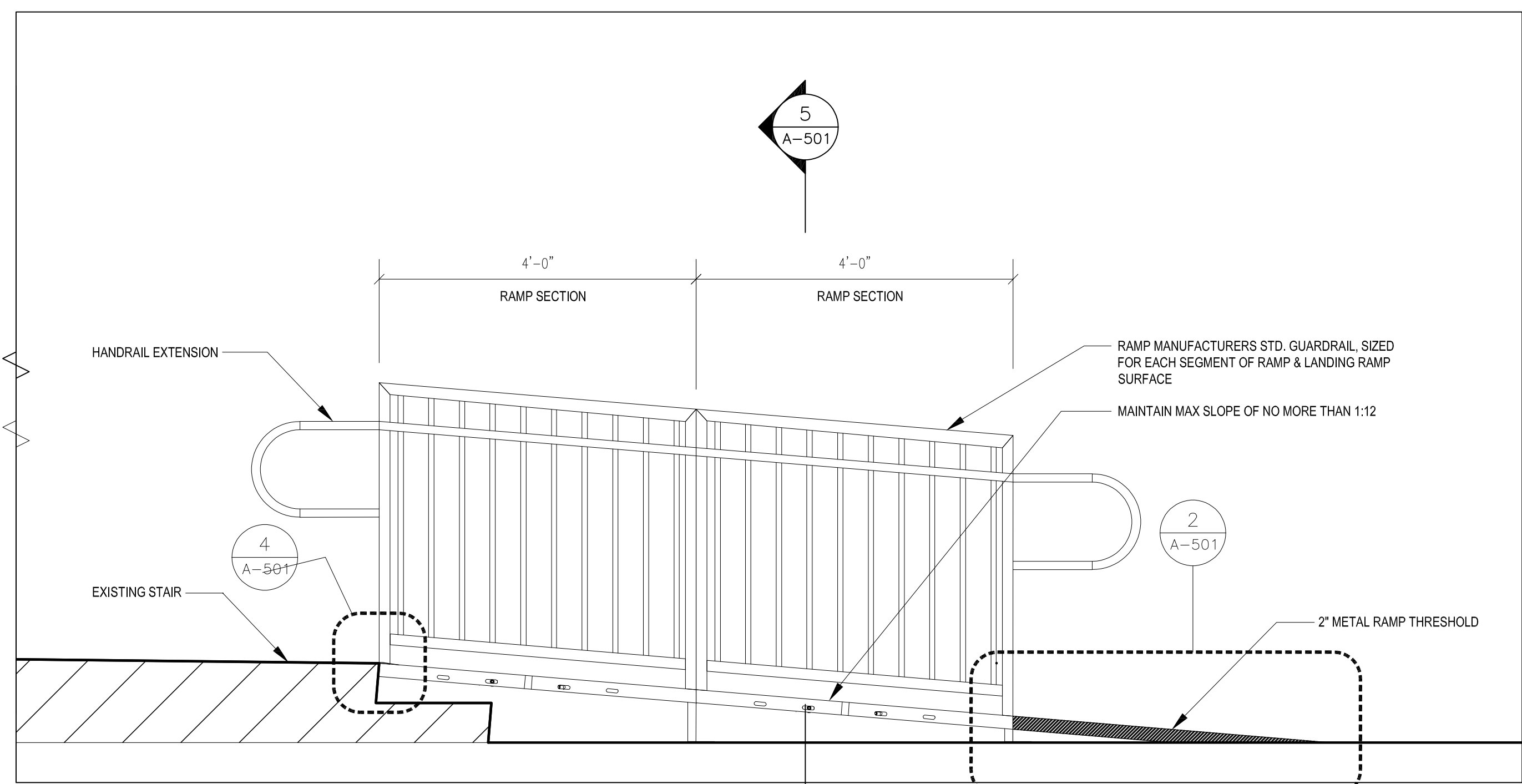
**1 SECTION-SWITCHBACK RAMP, LONG SECTION**

A-401 SCALE: 3/4"=1'-0"



**2 SECTION-SWITCHBACK RAMP, SHORT SECTION**

A-401 SCALE: 3/4"=1'-0"



**3 SECTION- SINGLE RAMP**

A-401 SCALE: 3/4"=1'-0"

Key Plan

SCALE: X'-X"

**NOT FOR CONSTRUCTION**

No.	Revision	Date

Project Name

**DELTA**  
ENGINEERS, ARCHITECTS & SURVEYORS  
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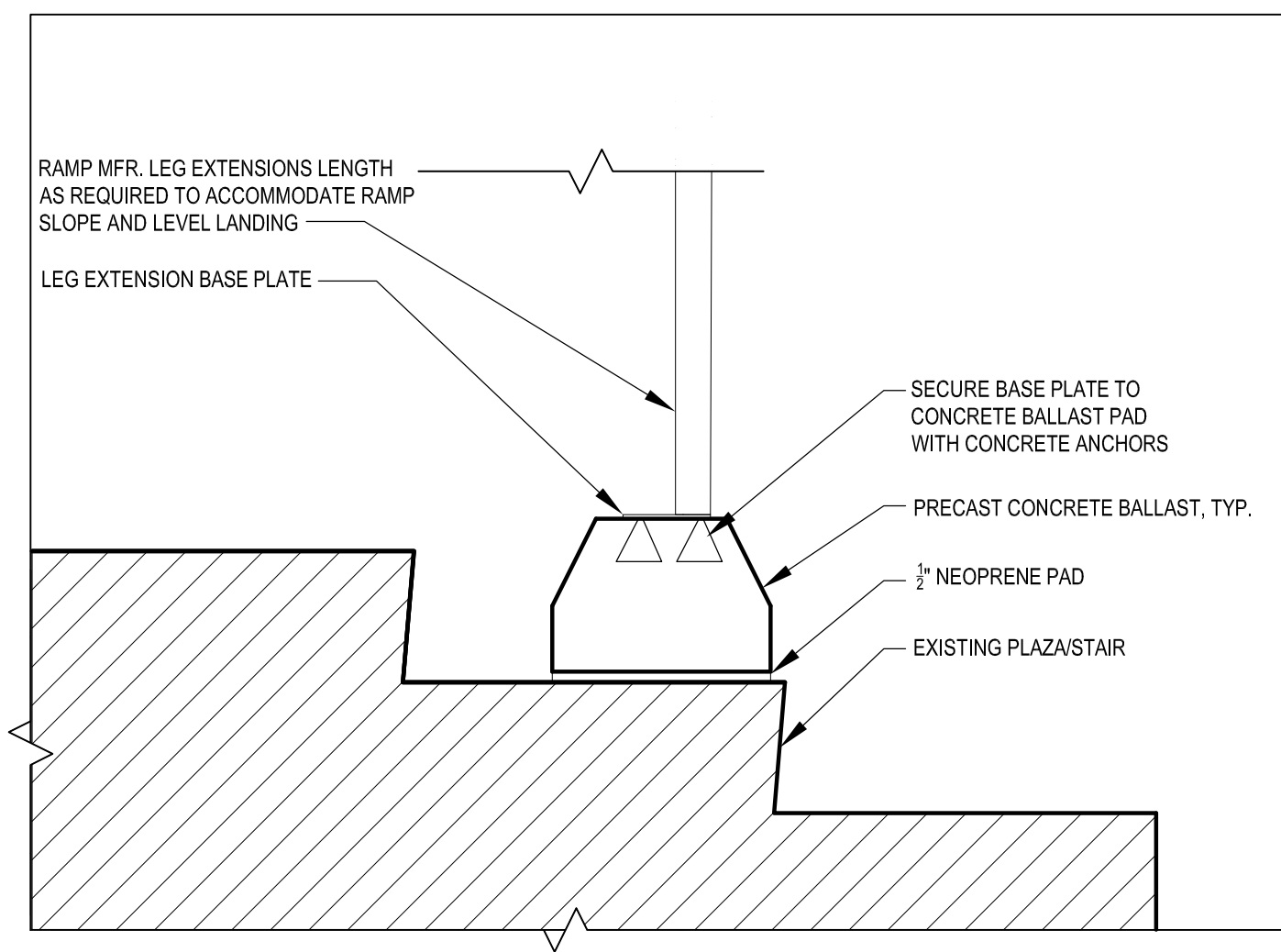
Seal (Professional Engineer/Architect stamp)  
Phase (PROJECT PHASE)  
Project No.  
Date

Drawing Title  
ENLARGED SECTIONS

Drawing No.  
**A-401**

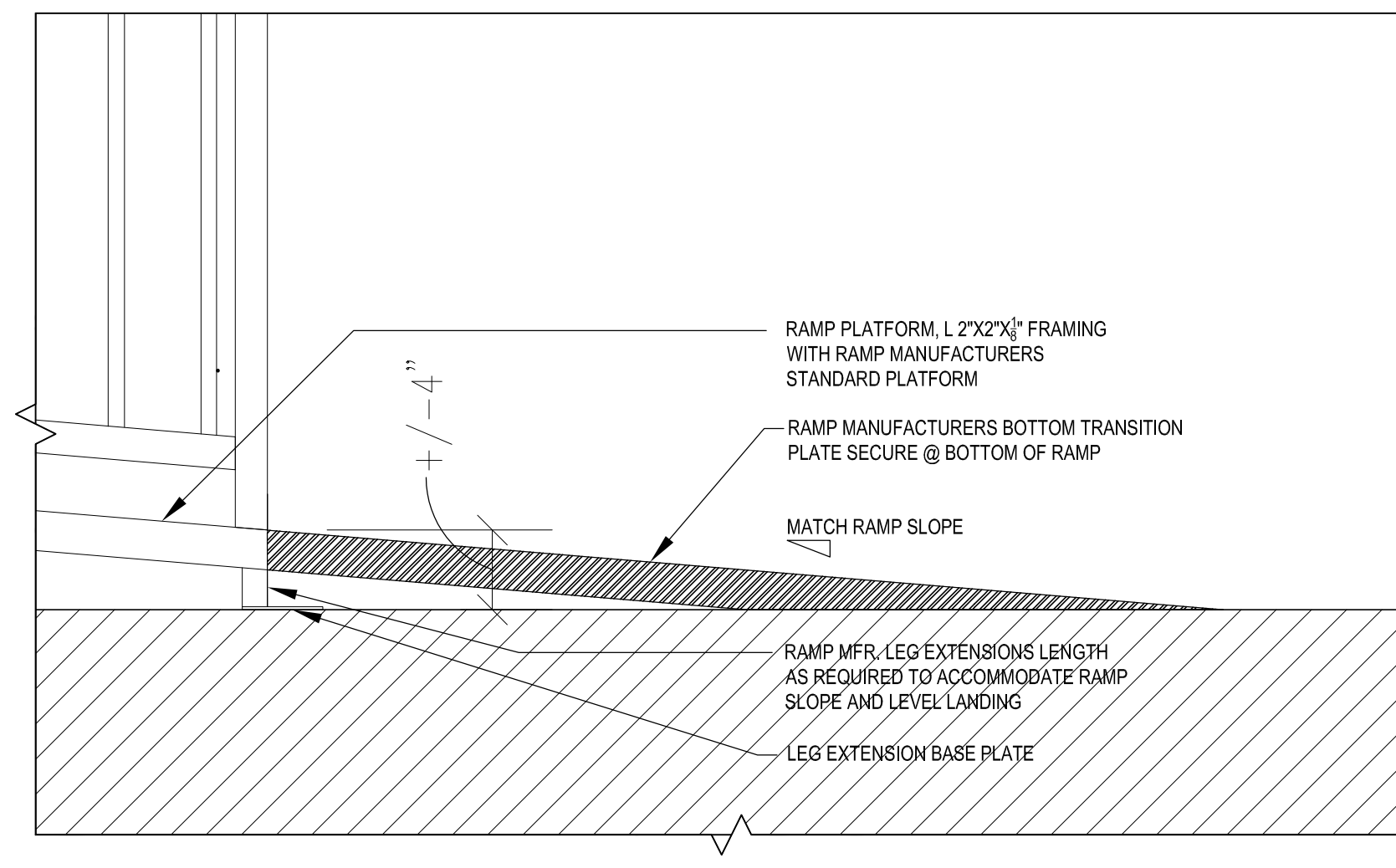
**REVIEWED PLAN**  
PLEASE READ ALL PLAN  
REVIEW COMMENTS

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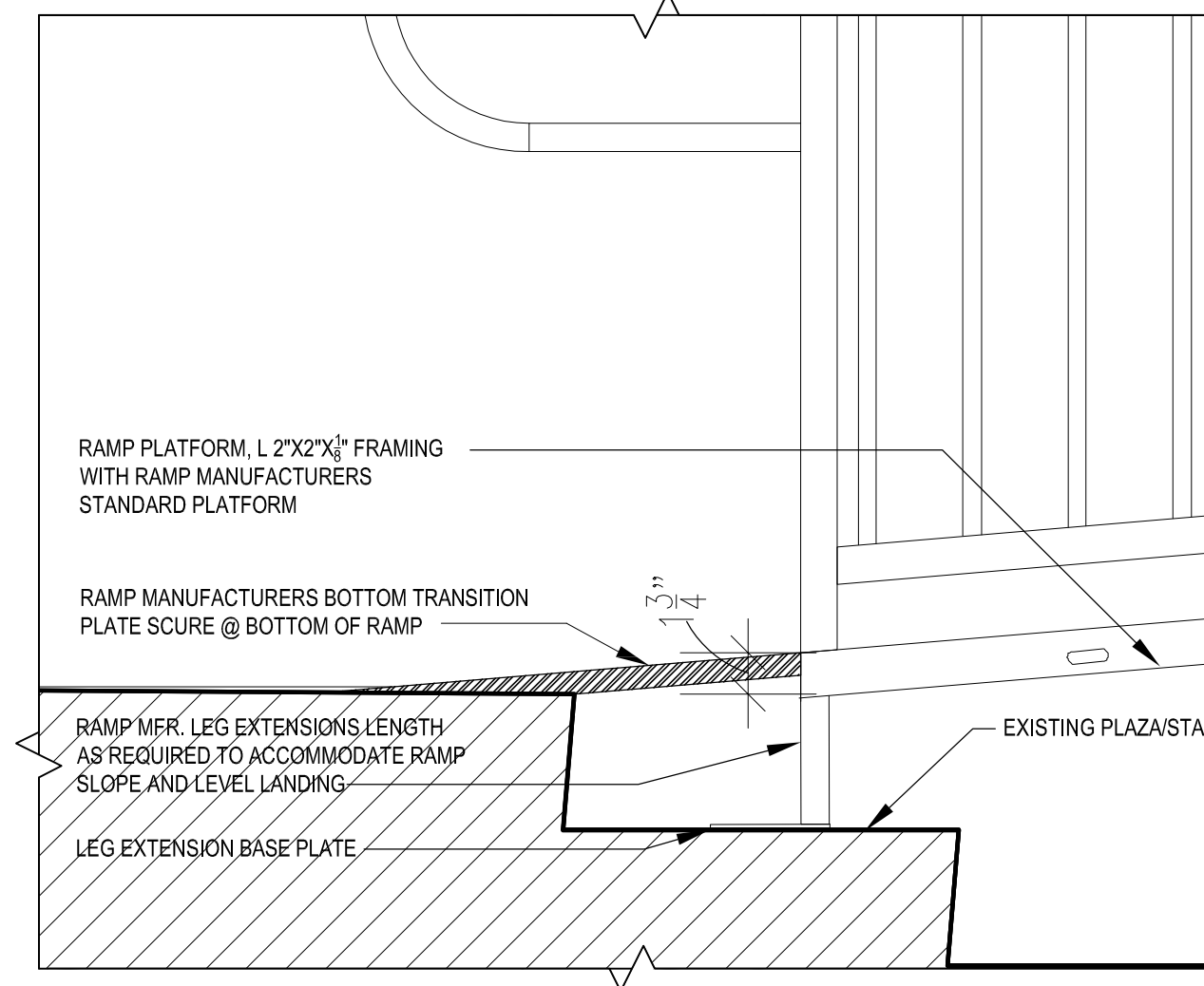
**SECTION DETAIL, RAMP LEG AT PRECAST BALLAST**

**1**  
A-501 SCALE: 1 1/2"=1'-0"



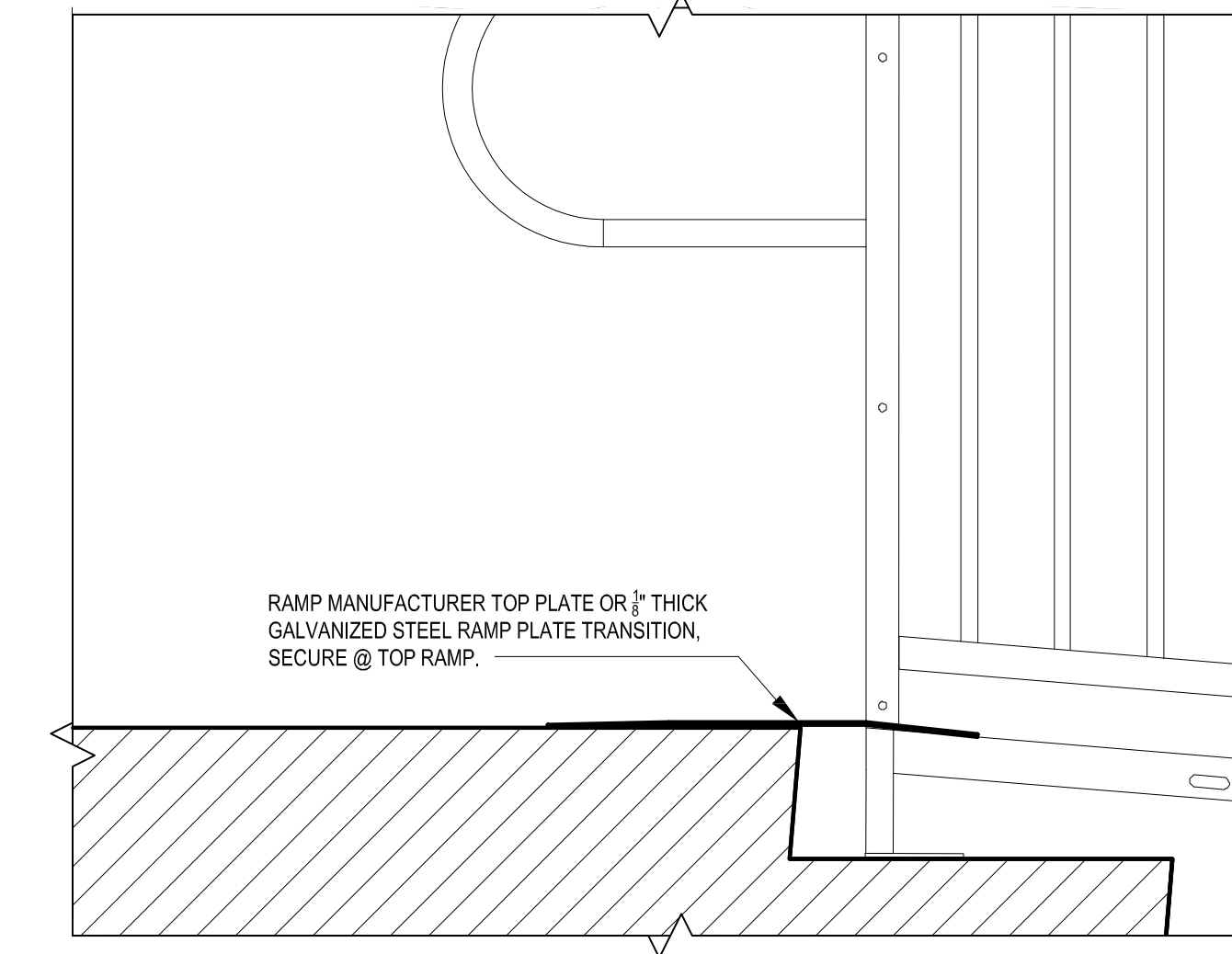
**SECTION DETAIL, BASE OF RAMP**

**2**  
A-501 SCALE: 1 1/2"=1'-0"



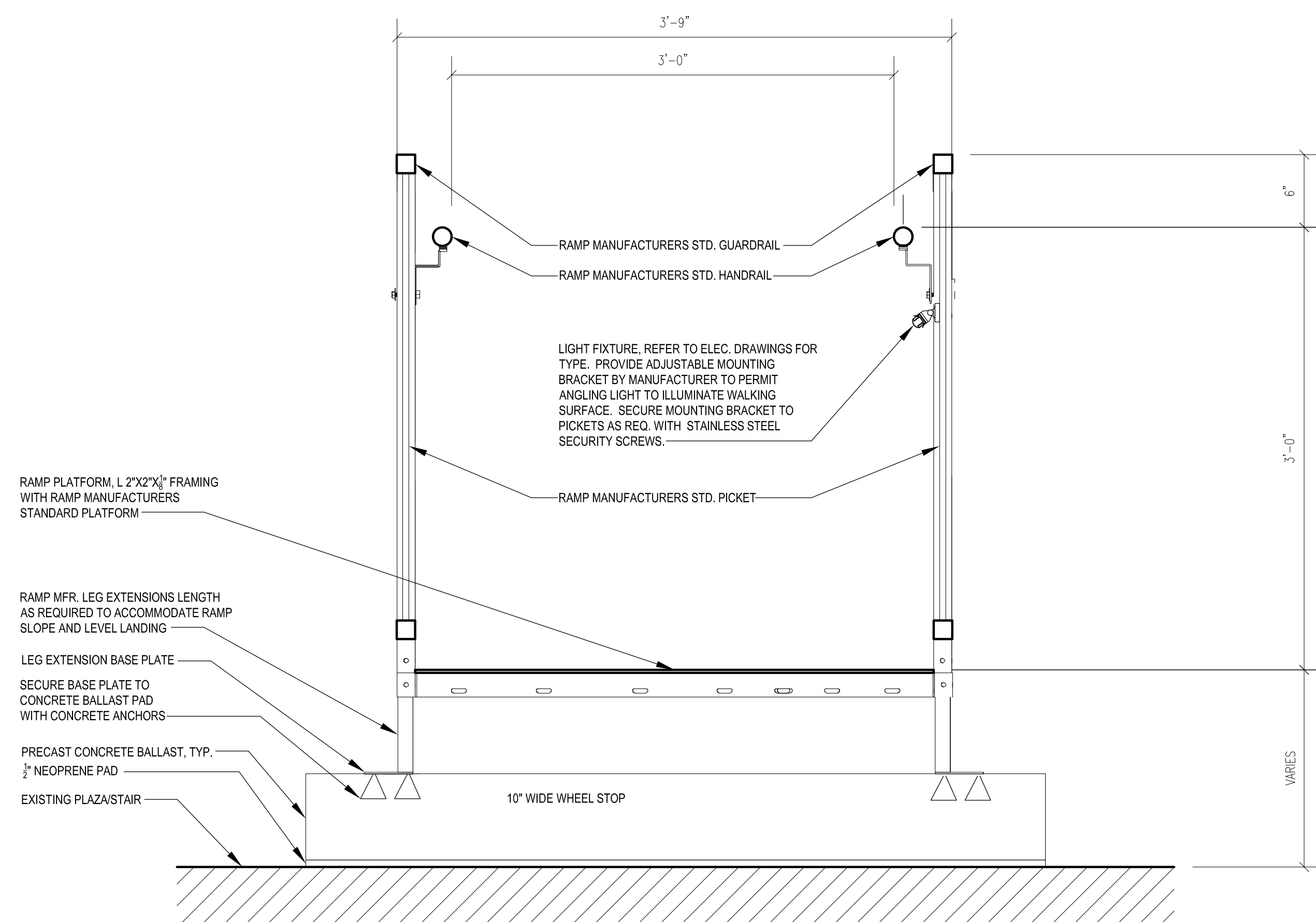
**SECTION DETAIL, BASE OF RAMP**

**3**  
A-501 SCALE: 1 1/2"=1'-0"



**SECTION DETAIL, TOP OF RAMP**

**4**  
A-501 SCALE: 1 1/2"=1'-0"



**SECTION DETAIL- RAMP**

**5**  
A-501 SCALE: 1 1/2"=1'-0"

Key Plan

SCALE: X'-X"

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Project Name

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Seal  
  
 Phase (PROJECT PHASE)  
 Project No.  
 Date

Drawing Title  
**DETAILS**

Drawing No.  
**A-501**

**REVIEWED PLAN**  
PLEASE READ ALL PLAN REVIEW COMMENTS

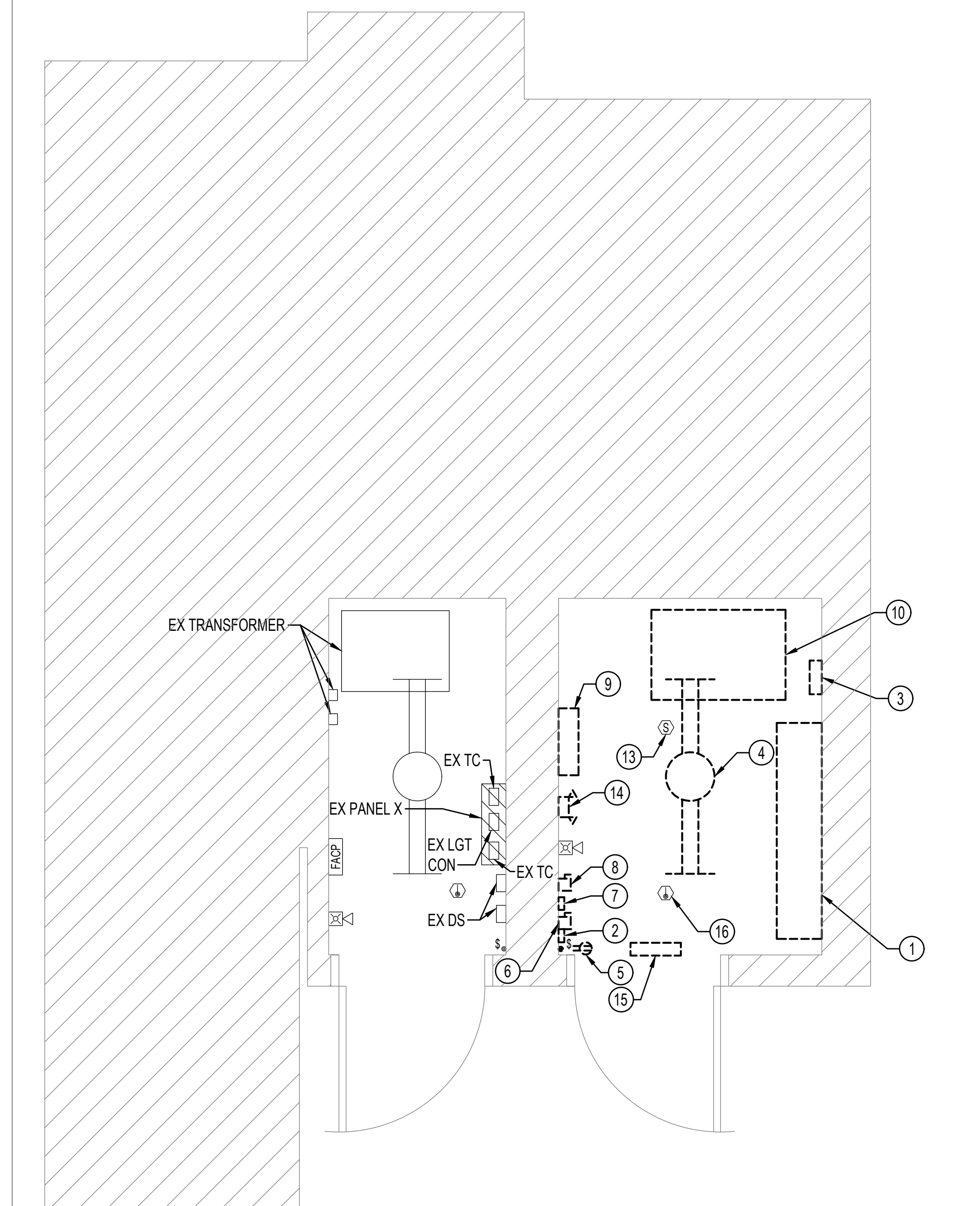
Construction/Installation subject to inspection by Fire Marshal. Schedule all fire inspections by visiting: [www.rockvillemd.gov/fireinspection](http://www.rockvillemd.gov/fireinspection)



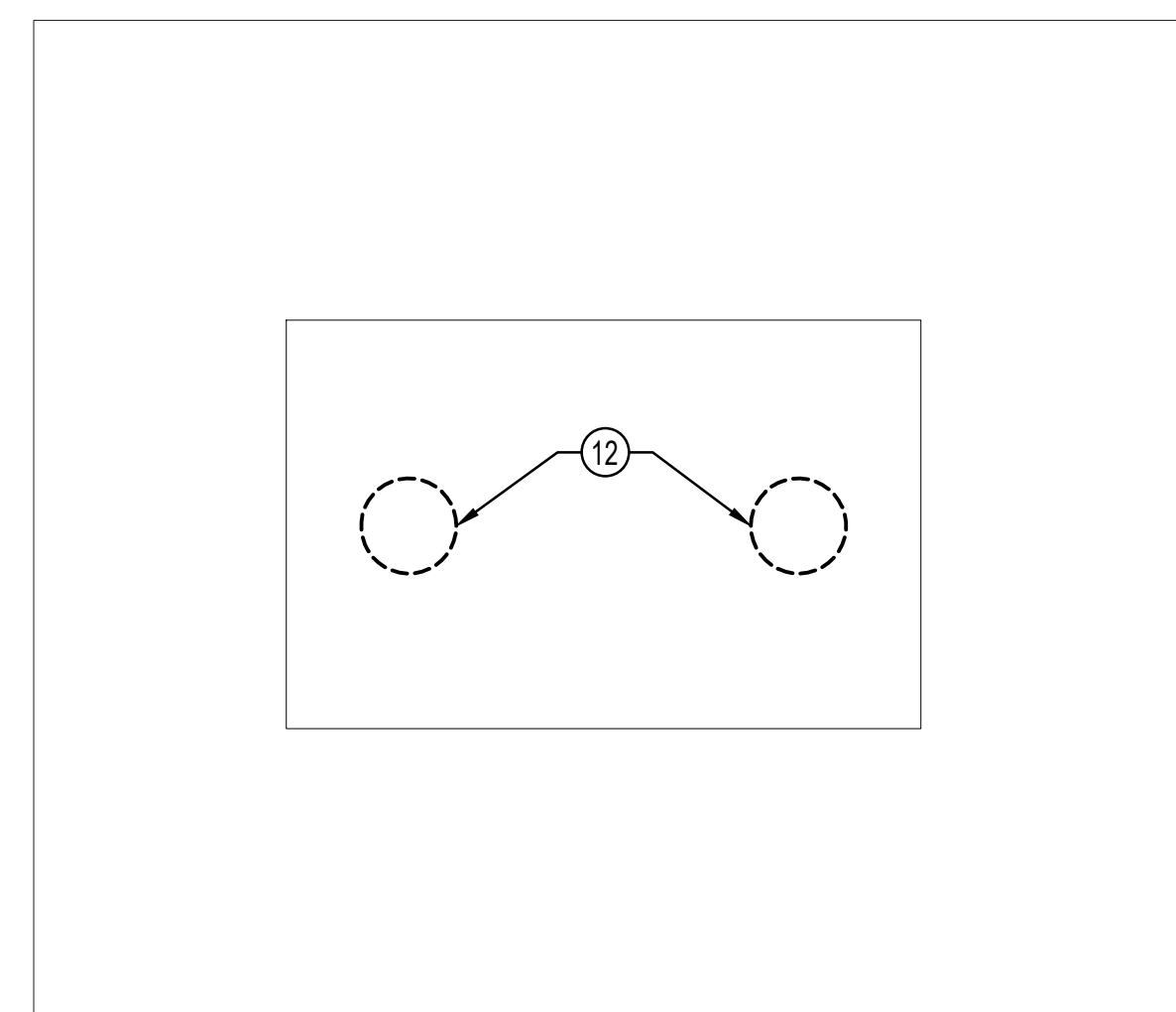




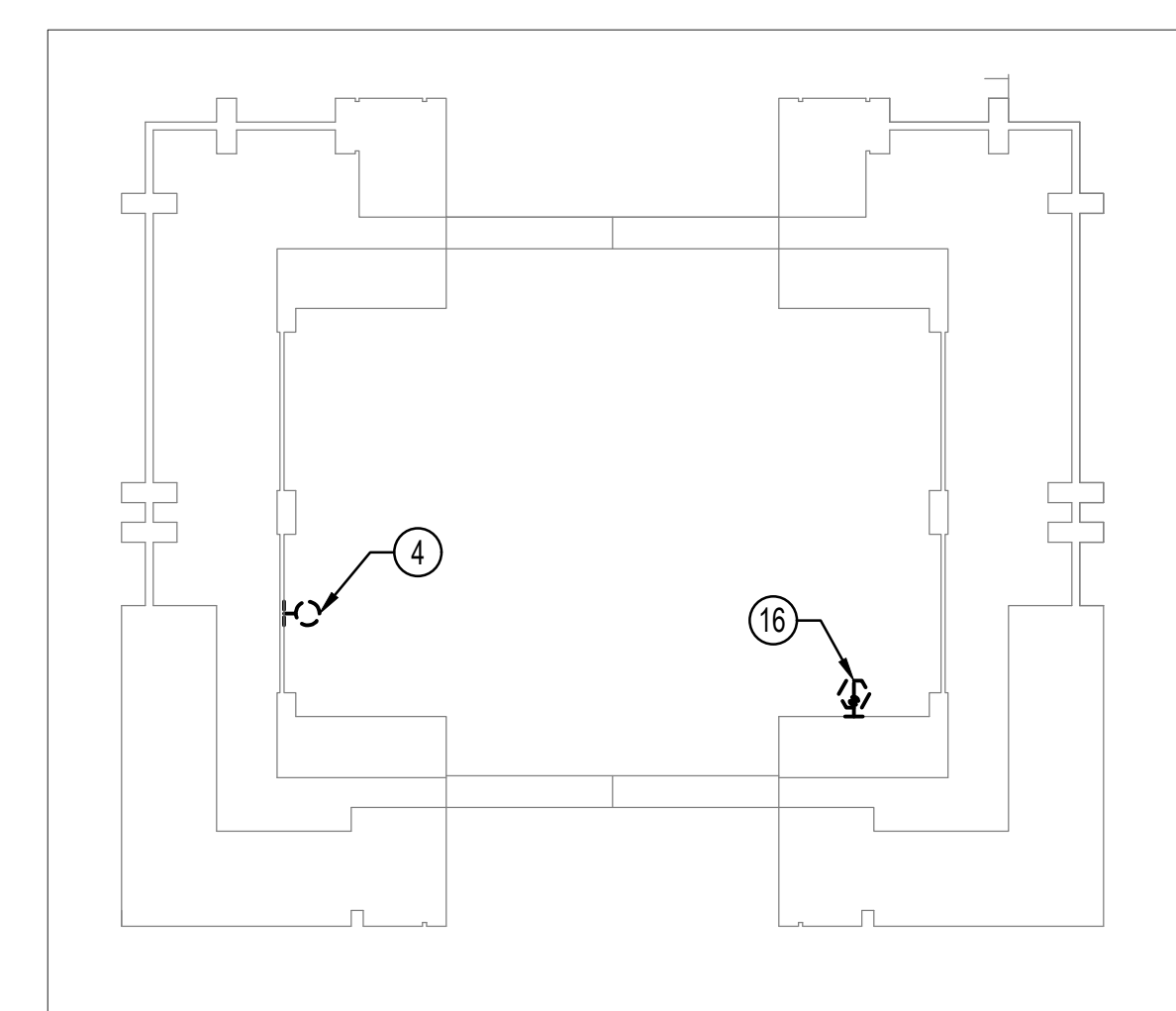
- DRAWING NOTES:** (APPLICABLE TO THIS SHEET ONLY)
- UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (---) INDICATE EXISTING ITEMS TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (—) INDICATE EXISTING ITEMS TO REMAIN.
  - INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.
- SPECIAL NOTES:** (APPLICABLE TO THIS SHEET ONLY)
- DISCONNECT POWER FROM EXISTING ELEVATOR CONTROLLER. MAKE SAFE FOR REMOVAL.
  - DISCONNECT POWER FROM EXISTING WALL HEATER. MAKE SAFE FOR REMOVAL. REMOVE EXISTING CONDUIT AND WIRING BACK TO PANEL.
  - DISCONNECT POWER FROM FAN. MAKE SAFE FOR REMOVAL. REMOVE EXISTING CONDUIT AND WIRING BACK TO PANEL.
  - REMOVE EXISTING LUMINAIRE. RETAIN EXISTING CONDUIT AND WIRING FOR CONNECTION TO NEW WORK.
  - REMOVE EXISTING RECEPTACLE. RETAIN EXISTING CONDUIT AND WIRING FOR CONNECTION TO NEW WORK.
  - REMOVE EXISTING DISCONNECT SWITCH. RETAIN EXISTING CONDUIT AND WIRING FOR CONNECTION TO NEW WORK. POWER SOURCE IS IN ELECTRICAL ROOM UNDER CONTROL OF ANOTHER TENANT.
  - REMOVE EXISTING ENCLOSED CIRCUIT BREAKER EQUIPPED WITH SHUNT TRIP MODULE. RETAIN EXISTING CONDUIT AND WIRING FOR CONNECTION TO NEW WORK.
  - REMOVE EXISTING SAFETY SWITCH FOR CAR ILLUMINATION. RETAIN EXISTING CONDUIT AND WIRING FOR CONNECTION TO NEW WORK.
  - DISCONNECT POWER FROM EMERGENCY BATTERY SUPPLY FOR CAR LOWERING AND ILLUMINATION. MAKE SAFE FOR REMOVAL.
  - DISCONNECT POWER FROM EXISTING ELEVATOR HYDRAULIC UNIT. MAKE SAFE FOR REMOVAL.
  - REMOVE EXISTING HEAT DETECTOR.
  - REMOVE EXISTING LUMINAIRE, ASSOCIATED CONDUIT, AND WIRING.
  - REMOVE EXISTING SMOKE DETECTOR.
  - REMOVE EXISTING EMERGENCY BATTERY UNIT.
  - DISCONNECT POWER FROM MOTORIZED LOUVERS. MAKE SAFE FOR REMOVAL.
  - REMOVE EXISTING HEAT DETECTOR. RETAIN CONDUIT AND WIRING FOR CONNECTION TO NEW HEAT DETECTOR.



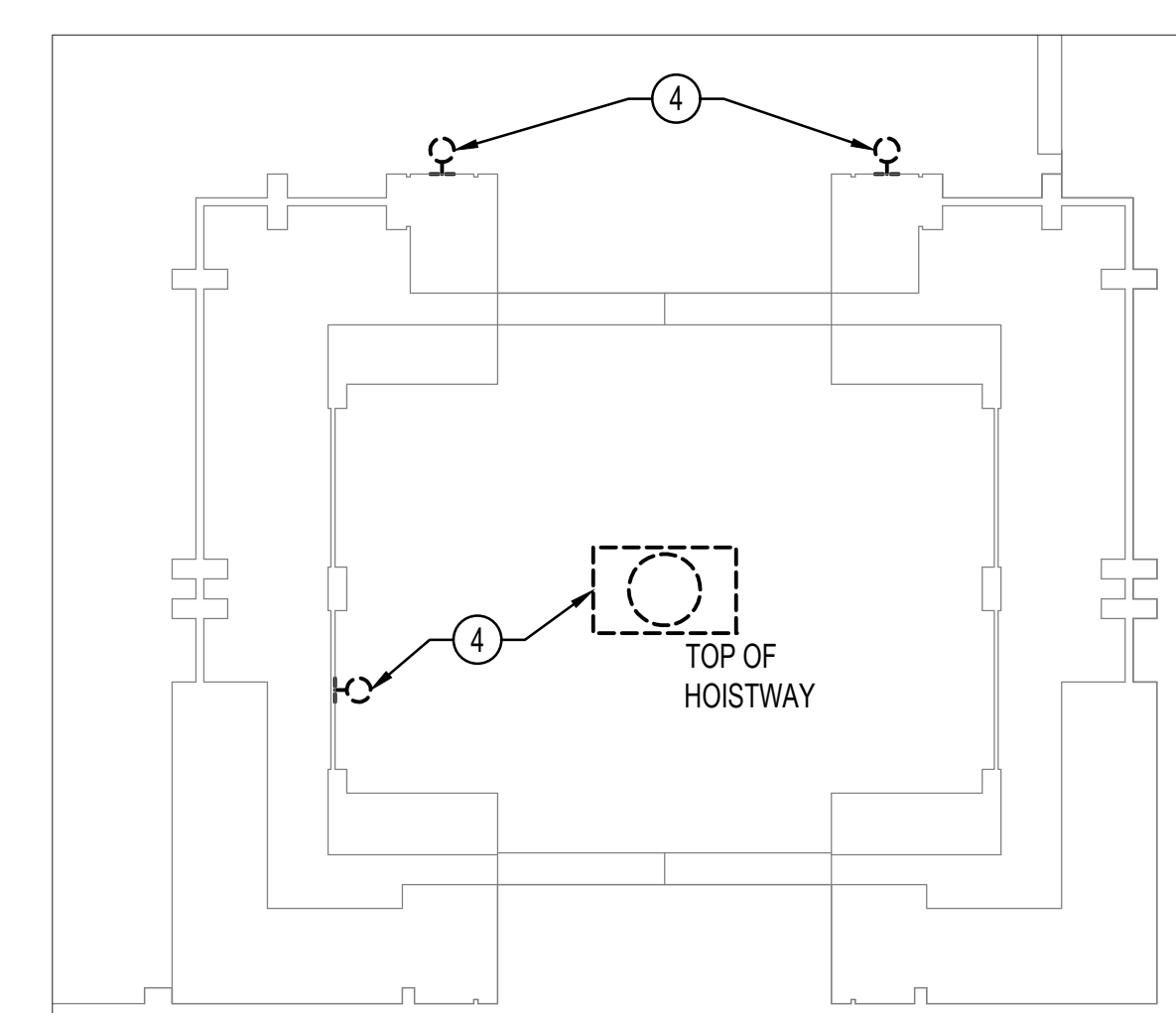
1 ELEVATOR MACHINE ROOM + ELECTRICAL ROOM - ELECTRICAL - DEMOLITION  
ED-101 1/2" = 1'-0"



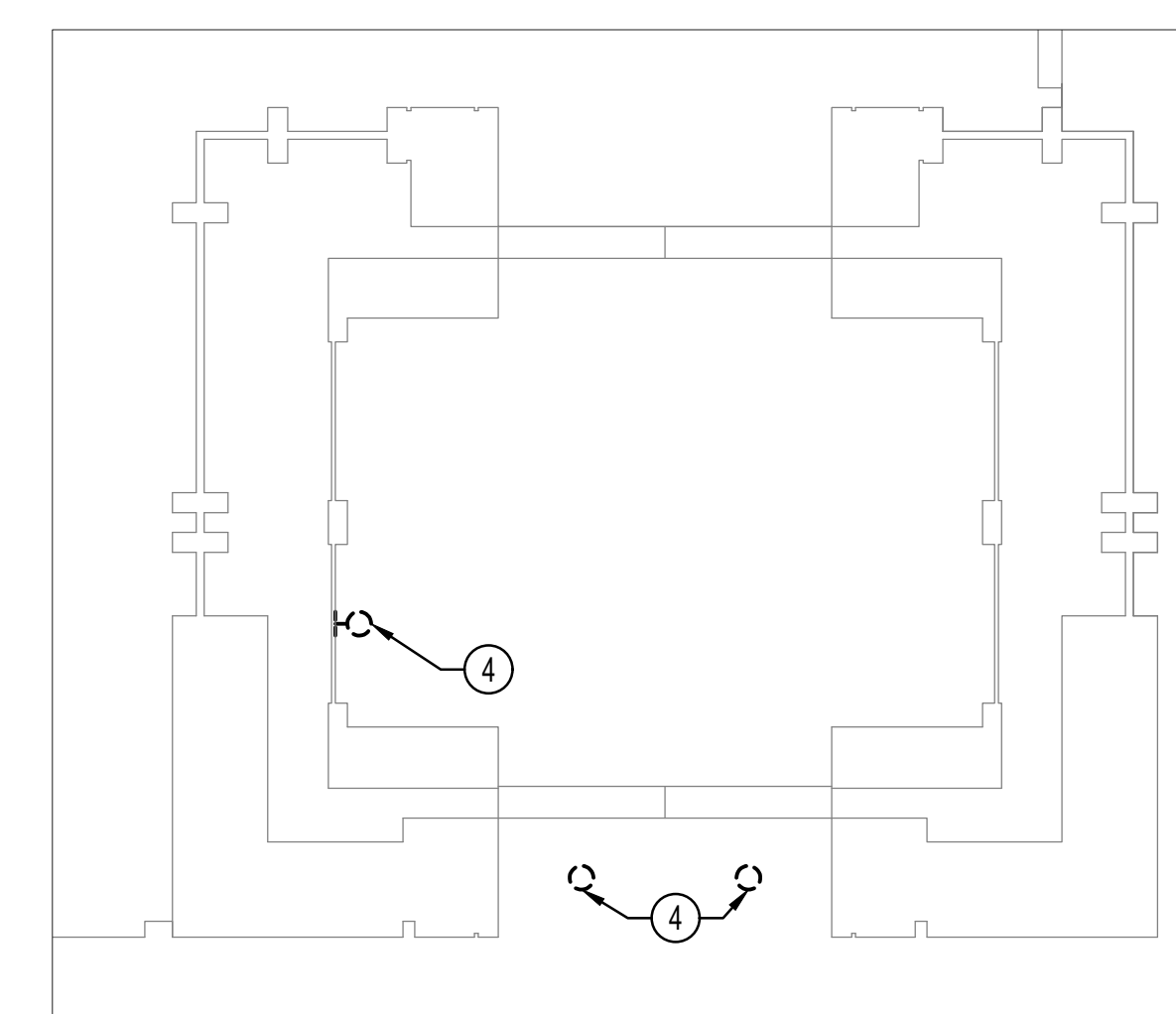
2 UNDERSIDE OF ELEVATOR CAR - ELECTRICAL - DEMOLITION  
ED-101 1/2" = 1'-0"



3 ELEVATOR PIT - ELECTRICAL - DEMOLITION  
ED-101 1/2" = 1'-0"



4 ELEVATOR HOISTWAY + PROMENADE LEVEL - ELECTRICAL - DEMOLITION  
ED-101 1/2" = 1'-0"



5 STREET LEVEL - ELECTRICAL - DEMOLITION  
ED-101 1/2" = 1'-0"

**HENRY ADAMS**  
Consulting Engineers

MECHANICAL ELECTRICAL & PLUMBING ENGINEERS

Key Plan

SCALE: X'-X"

No.	Revision	Date

Project Name  
ROCKVILLE ELEVATOR MODERNIZATION

**DELTA**  
ENGINEERS, ARCHITECTS, & SURVEYORS  
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Phase  
100% SUBMISSION  
Project No.  
Date  
02/04/2022

Drawing Title  
FIRST FLOOR - ELECTRICAL - DEMOLITION

Drawing No.

ED-101

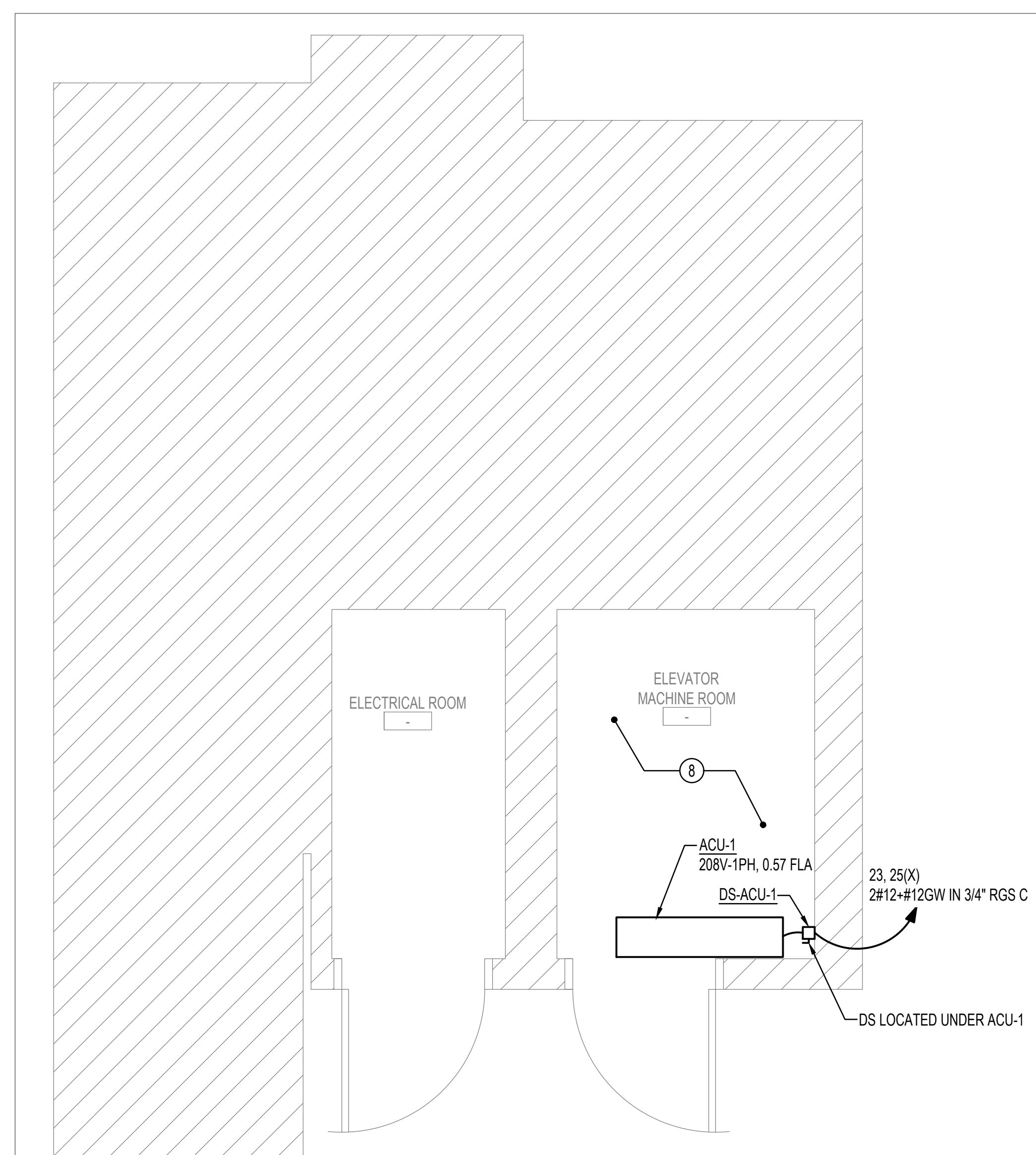
Construction/Installation subject to inspection by Fire Marshal. Schedule all fire inspections by visiting:  
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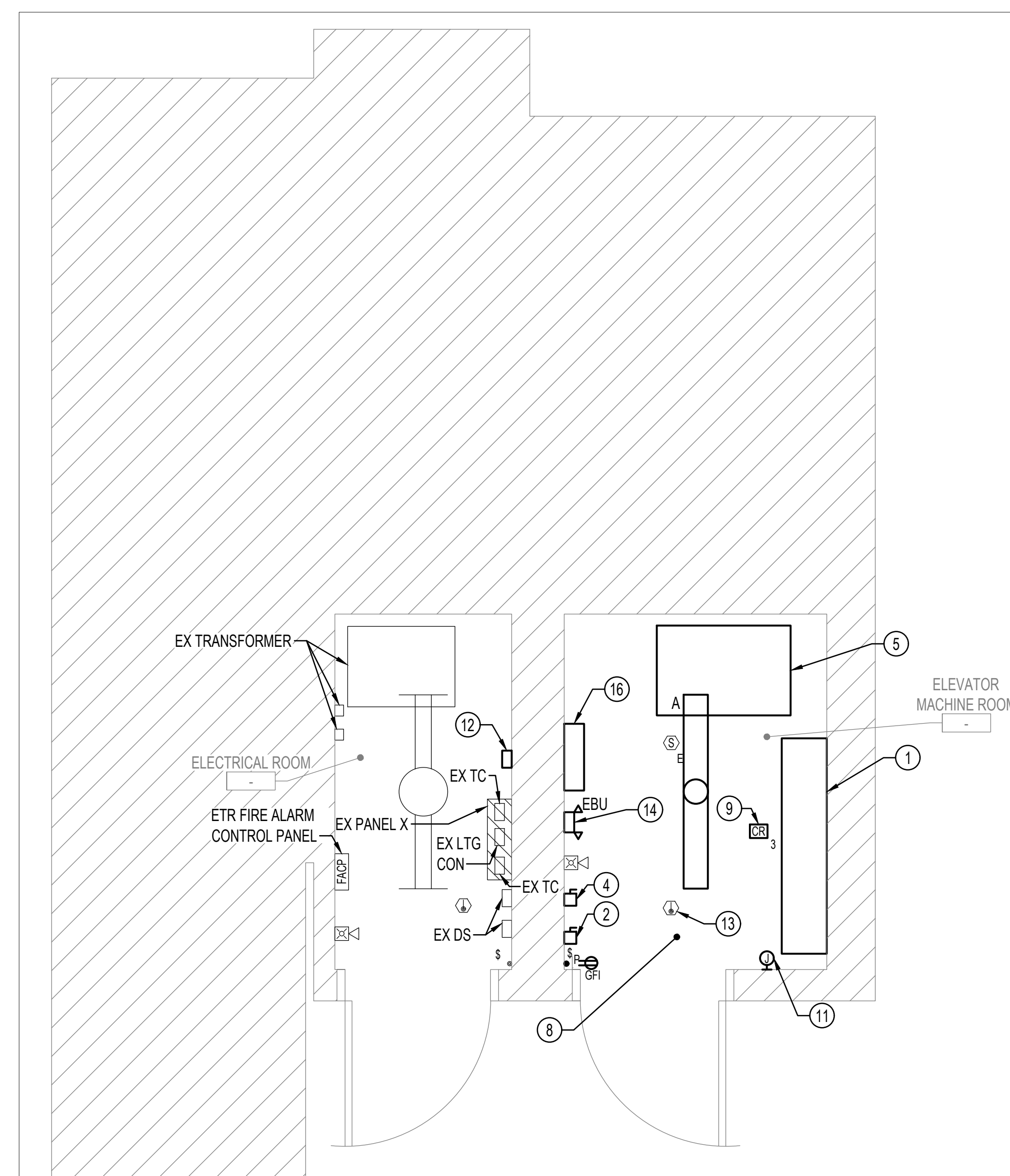
REVIEWED PLAN

PLEASE READ ALL PLAN REVIEW COMMENTS

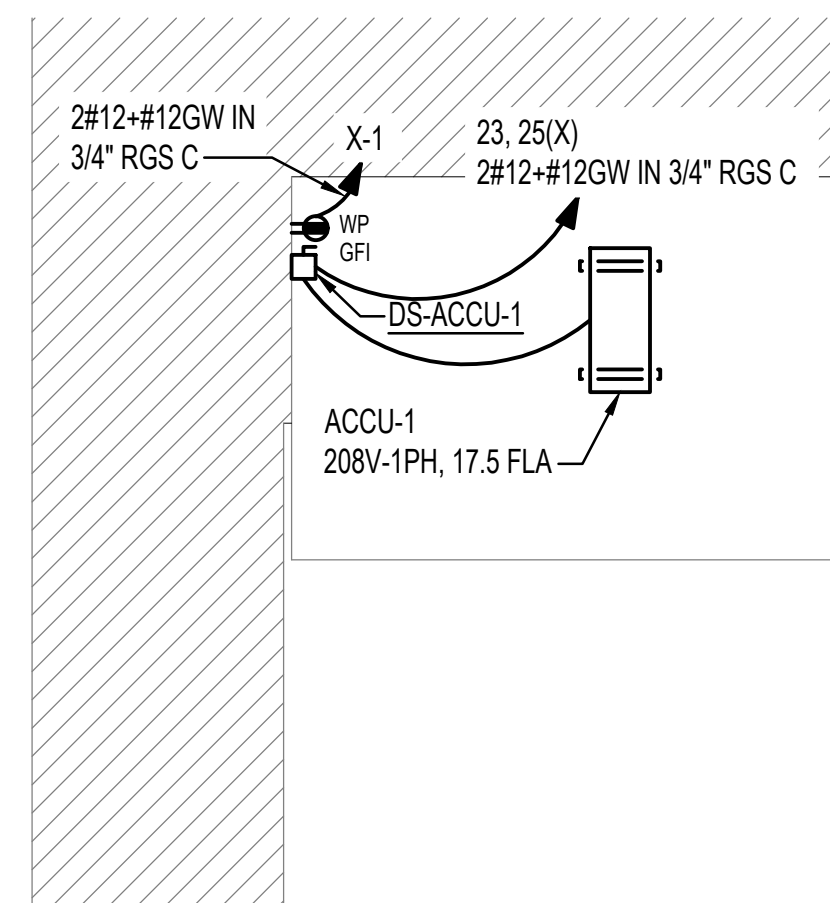
STATE OF MARYLAND  
ROBERT J. MACK  
PROFESSIONAL ENGINEER  
NO. 50153  
2-4-2022



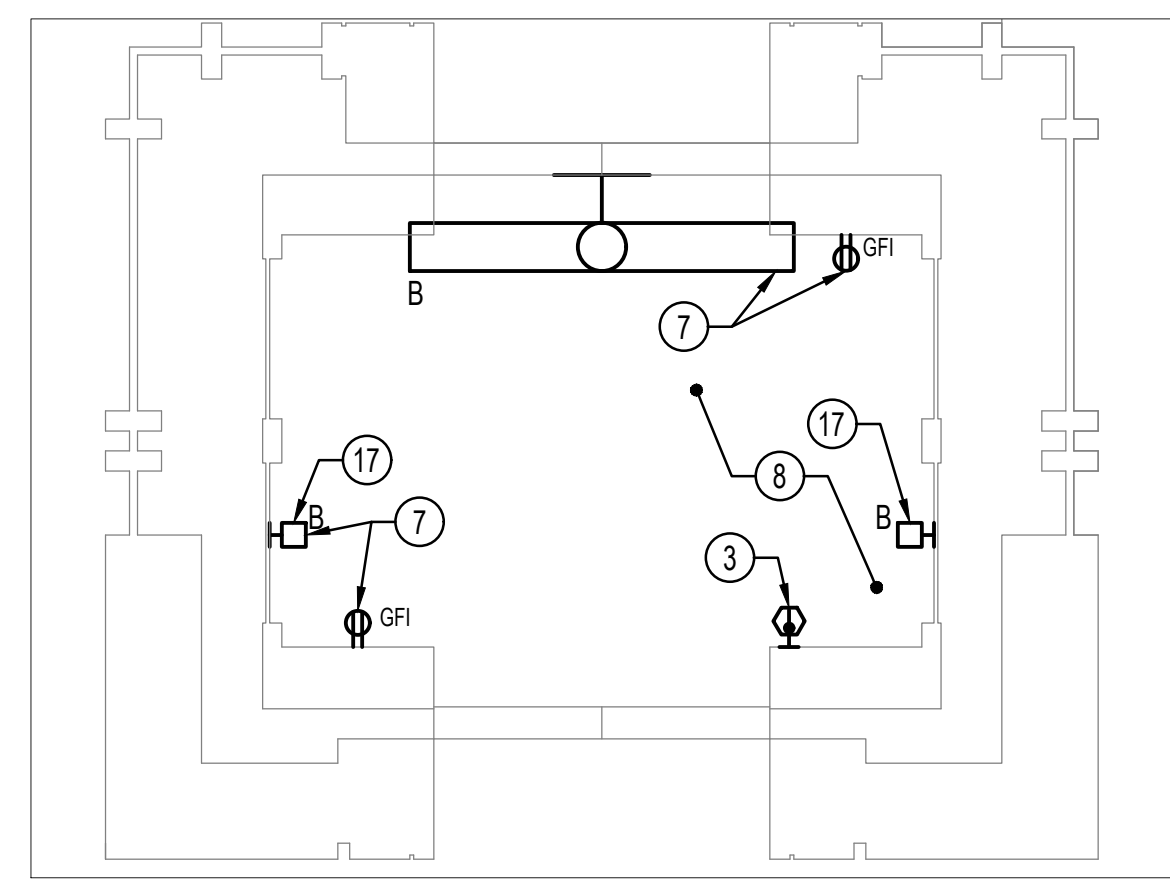
1 ELEVATOR MACHINE ROOM + ELECTRICAL ROOM - ELECTRICAL - NEW WORK  
E-101 1/2" = 1'-0"



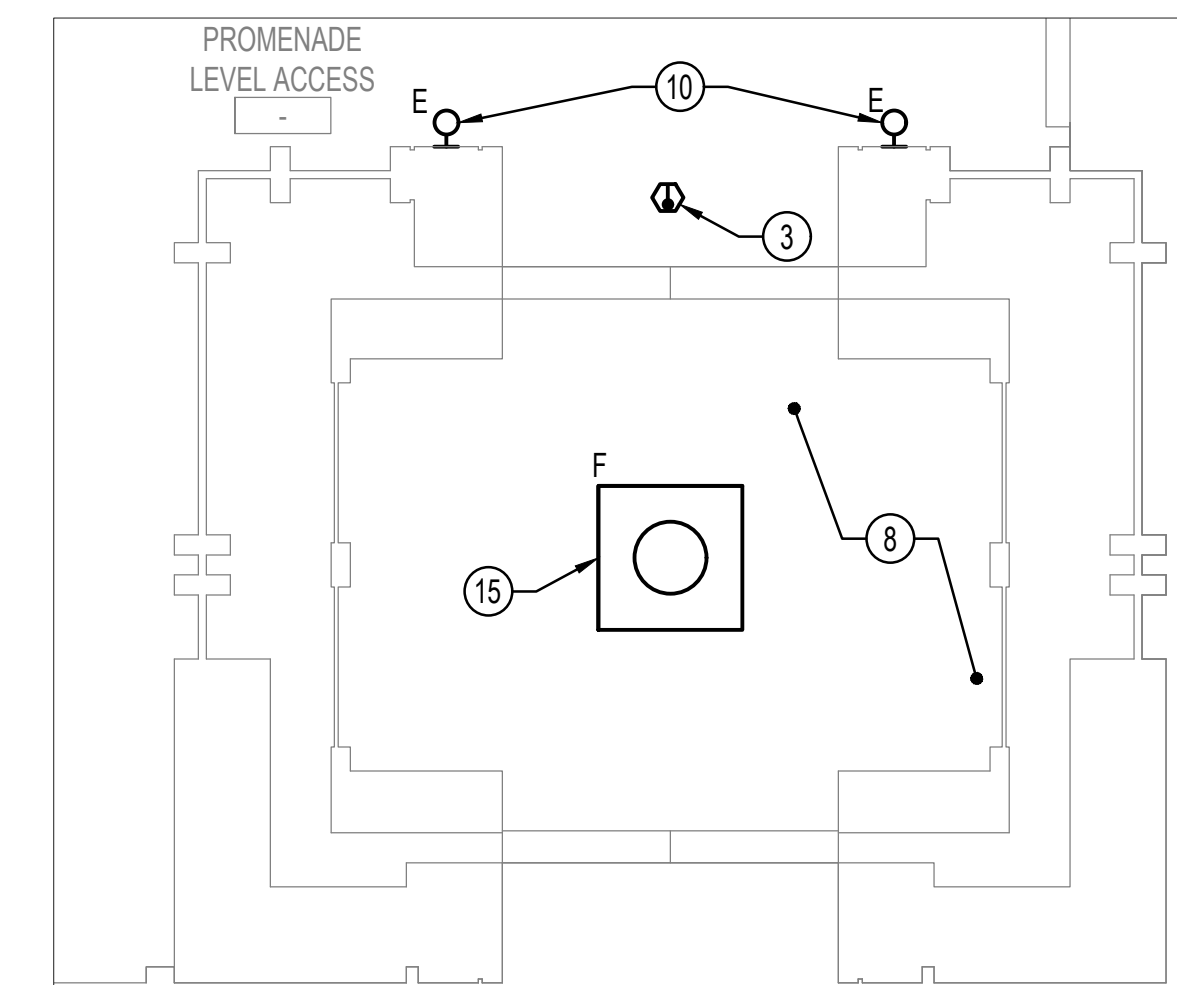
2 ELEVATOR MACHINE ROOM + ELECTRICAL ROOM - ELECTRICAL - NEW WORK  
E-101 1/2" = 1'-0"



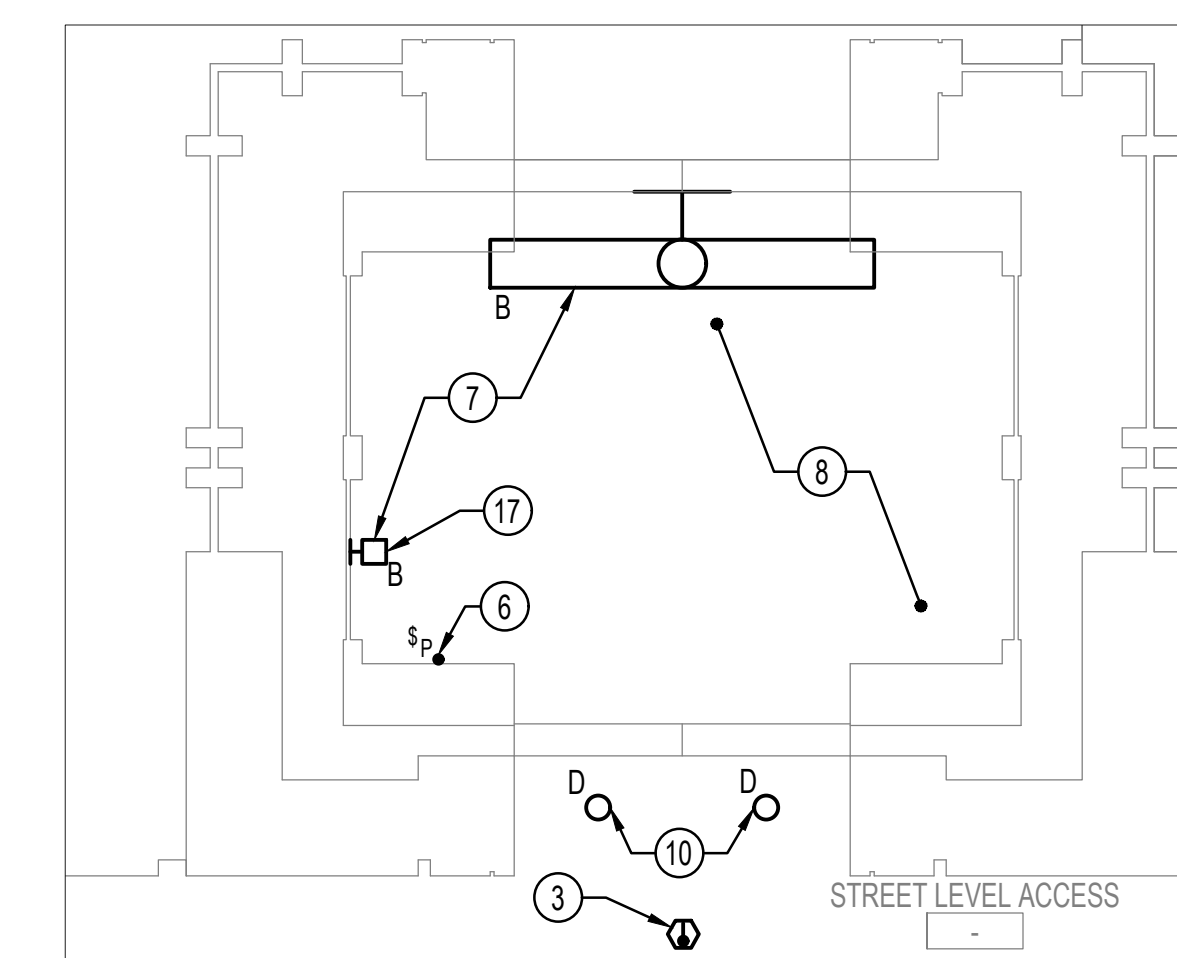
3 ELEVATOR MACHINE ROOM ROOF - ELECTRICAL - NEW WORK  
E-101 1/4" = 1'-0"



4 ELEVATOR PIT - ELECTRICAL - NEW WORK  
E-101 1/2" = 1'-0"



4 ELEVATOR HOISTWAY + PROMENADE LEVEL - ELECTRICAL - NEW WORK  
E-101 1/2" = 1'-0"



5 STREET LEVEL - ELECTRICAL - NEW WORK  
E-101 1/2" = 1'-0"

- DRAWING NOTES:** (APPLICABLE TO THIS SHEET ONLY)
- UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (—) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (---) INDICATE EXISTING ITEMS TO REMAIN.
  - INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.
  - PROVIDE POWER SYSTEM REPORT INCLUDING SHORT CIRCUIT, SELECTIVE COORDINATION, AND ARC FLASH FOR THE PORTION OF THE POWER DISTRIBUTION SYSTEM THAT IS AFFECTED BY THE PROJECT.

- SPECIAL NOTES:** (APPLICABLE TO THIS SHEET ONLY)
- PROVIDE FINAL CONNECTION TO ELEVATOR CONTROLLER. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR.
  - DS-ELEV FUSED SAFETY SWITCH WITH SHUNT TRIP MODULE FOR ELEVATOR MAIN LINE DISCONNECT. FIELD COORDINATE SIZE OF FUSED SWITCH AND FUSES WITH ELEVATOR MANUFACTURER'S PUBLISHED CURRENT CHARACTERISTICS INDICATED ON CONFIRMATION OF POWER SUPPLY FORM WHICH WILL BE FURNISHED WITH ELEVATOR SHOP DRAWINGS.
  - HEAT DETECTOR FOR ELEVATOR RECALL.
  - DS-ELEV CAR LTG LOCKABLE SAFETY SWITCH FOR ELEVATOR CAR LIGHTS, CAR TOP RECEPTACLE, AUXILIARY LIGHTING SOURCE, AND CAR VENTILATION. PROVIDE SWITCH CAPABLE OF BEING LOCKED IN OPEN POSITION ONLY.
  - PROVIDE FINAL CONNECTION TO ELEVATOR HYDRAULIC UNIT. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR.
  - MOUNT 48" ABOVE STREET LEVEL ADJACENT TO DOOR. COORDINATE EXACT LOCATION WITH ELEVATOR CONSULTANT.
  - MOUNT 48" ABOVE ELEVATOR PIT FLOOR. FOR DEVICES IN HOISTWAY.
  - COORDINATE EXACT LOCATION OF ELECTRICAL DEVICES IN THIS ROOM WITH ELEVATOR CONTRACTOR.
  - PROVIDE FIRE ALARM SYSTEM CONTROL RELAYS TO PROVIDE THE FOLLOWING OUTPUTS TO THE ELEVATOR CONTROLLER:
    - A. DESIGNATED LEVEL RECALL
    - B. ALTERNATE LEVEL RECALL
    - C. ELEVATOR MACHINE ROOM FIRE ALARM INITIATING DEVICE
  - PROVIDE LUMINAIRE AT ELEVATOR DOOR TO ILLUMINATE THE LANDING. CONNECT TO NEAREST EXISTING LIGHTING CIRCUIT.
  - PROVIDE FINAL CONNECTION OF EXISTING POTS LINE CONDUCTORS TO NEW ELEVATOR CONTROLLER.
  - COLOR CONTROLLER AND INTERFACE FOR LUMINAIRE AT TOP OF HOIST WAY.
  - HEAT DETECTOR FOR ELEVATOR SHUNT TRIP.
  - PROVIDE FINAL CONNECTION TO EMERGENCY BATTERY UNIT.
  - PROVIDE LUMINAIRE AT TOP OF HOIST WAY. CONNECT TO COLOR CONTROLLER AND TO NEAREST EXISTING LIGHTING CIRCUIT.
  - EMERGENCY BATTERY SUPPLY FOR CAR LOWERING AND ILLUMINATION. CONNECT TO EXISTING CONDUCTORS.
  - MOUNT LUMINAIRE VERTICALLY.

**HENRY ADAMS**  
Consulting Engineers

MECHANICAL ELECTRICAL & PLUMBING ENGINEERS

Key Plan

SCALE: X'-X"

No.	Revision	Date

Project Name  
ROCKVILLE ELEVATOR MODERNIZATION

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Phase  
100% SUBMISSION  
Project No.  
Date  
02/04/2022

Drawing Title  
**FIRST FLOOR - ELECTRICAL - NEW WORK**

Drawing No.

E-101

TYPE	MOUNTING	LUMINAIRE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP					DRIVER / BALLAST					NOTES	
					TYPE	CRI	CCT	QTY	WATTS / LAMP	LUMENS / LAMP	TYPE	QTY	BALLAST FACTOR	VOLTAGE		INPUT WATTS
A	SURFACE-CEILING	FULLY ENCLOSED GASKETED INDUSTRIAL LED	HE WILLIAMS	96-4-L40/835-HIAFR-WET/1-DRV-UNV	LED	80	4000	1	30	4086	NON-DIMMING	1	-	120	30	1, 2, 3
B	SURFACE-WALL	FULLY ENCLOSED GASKETED INDUSTRIAL LED	HE WILLIAMS	96-4-L40/835-HIAFR-(L20)-WET/1-WM8-DRV-UNV	LED	80	4000	1	30	2043	NON-DIMMING	1	-	120	30	1, 2, 3
D	RECESSED	4" ROUND DOWNLIGHT	HE WILLIAMS	4AR-L10/840-DIM-UNV-LW-OF-CS-WET/CCR	LED	80	4000	1	49	915	NON-DIMMING	1	-	120	49	1, 2, 3
E	SURFACE-WALL	ARCHITECTURAL 4" CYLINDER	PATHWAY	C73W304WL9DUBWL	LED	80	4000	1	22.8	2753	NON-DIMMING	1	-	120	22.8	1, 2, 3
EBU	WALL	EMERGENCY BATTERY UNIT	HE WILLIAMS	EMER/W-GRAY-D	LED	-	-	1	1.875	-	NON-DIMMING	1	-	120	3.7	1, 2, 3
F	PENDANT	LUMENBEAM RGBW COLOR CHANGING PENDANT	LUMENPULSE	LBGP-120-RGBW40K-FL-FL-ACAN-12-BK-LT-UL-BK	LED	80	4000	1	100	4059	DMX/DM	1	-	120	100	1, 2, 3, 4, 5
G	SURFACE	SURFACE MOUNT STANDARD OPTIC ASYMMETRIC	ALUZ	A1-ZAKY-SOP-ASM-3W-10V-40K-WET-NA-XX	LED	90	4000	1	12	1296	NON-DIMMING	1	-	120	12	1, 2, 3, 4, 5, 6, 7, 8, 9

**NOTES:** (APPLICABLE TO LUMINAIRE SCHEDULE ONLY)

- CATALOG NUMBERS FOR LUMINAIRES INDICATE THE TYPE AND QUALITY OF THE LUMINAIRE TO BE PROVIDED BY THE CONTRACTOR AND ARE GENERAL IN NATURE. THE CATALOG NUMBERS ARE NOT INTENDED TO INDICATE AN ACTUAL ORDER MODEL NUMBER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LUMINAIRES WITH THE TYPE OF LAMP, BALLAST, LENS OR DIFFUSER, AND CONSTRUCTION FEATURES AS INDICATED IN THE SPECIFICATIONS.
- COORDINATE CONTROL COMPATIBILITY BETWEEN BALLAST/DRIVER TYPES FOR ALL DIMMED AND COLOR CHANGING LUMINAIRES WITH MANUFACTURER AND MODEL OF DIMMING CONTROL DEVICES.
- ALL MOUNTING HEIGHTS SHALL BE AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ARCHITECT OR ENGINEER. MOUNTING HEIGHTS OF WALL MOUNTED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE LUMINAIRE. MOUNTING HEIGHTS OF CEILING SUSPENDED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE BOTTOM OF THE LUMINAIRE.
- EQUIPPED WITH ADJUSTABLE LINEAR SPREAD LENS (LSLA), LUMENTALK CONTROL INTERFACE, BLACK POWER/CONTROL CABLE.
- EQUIPPED WITH PHAROS CONTROLLER/INTERFACE
- PROVIDE LUMINAIRES IN LENGTHS CORRESPONDING TO LENGTH OF EACH RAMP SECTION ASSEMBLY. INSTALL LUMINAIRES HORIZONTALLY ON RAMP UNDER HANDRAIL OR ON BALUSTERS, AIMING LIGHT DISTRIBUTION ON THE HORIZONTAL SURFACE OF THE RAMP.
- PROVIDE MOUNTING CLIPS AND CONNECTORS LISTED FOR WET LOCATIONS WHICH ARE COMPATIBLE WITH THE LUMINAIRES AND ARE FROM THE SAME MANUFACTURER AS THE LUMINAIRES AS REQUIRED.
- PROVIDE NON-DIMMING DRIVERS WHICH ARE COMPATIBLE WITH THE LUMINAIRES AND ARE RATED FOR CONNECTED LOAD FROM SAME MANUFACTURER AS THE LUMINAIRES AS REQUIRED.
- PROVIDE PHOTOCELL AND TIME CLOCK FOR CONTROL.

Construction/Installation subject to inspection by Fire Marshal. Schedule all fire inspections by visiting: [www.rockvillemd.gov/fireinspection](http://www.rockvillemd.gov/fireinspection)

1/4" = 1'-0"

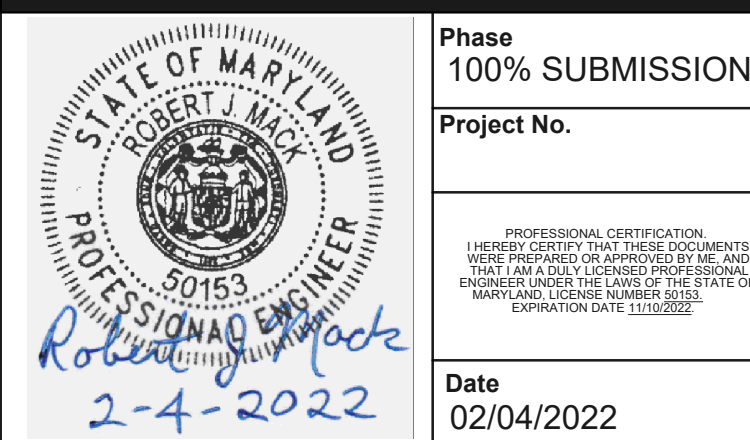
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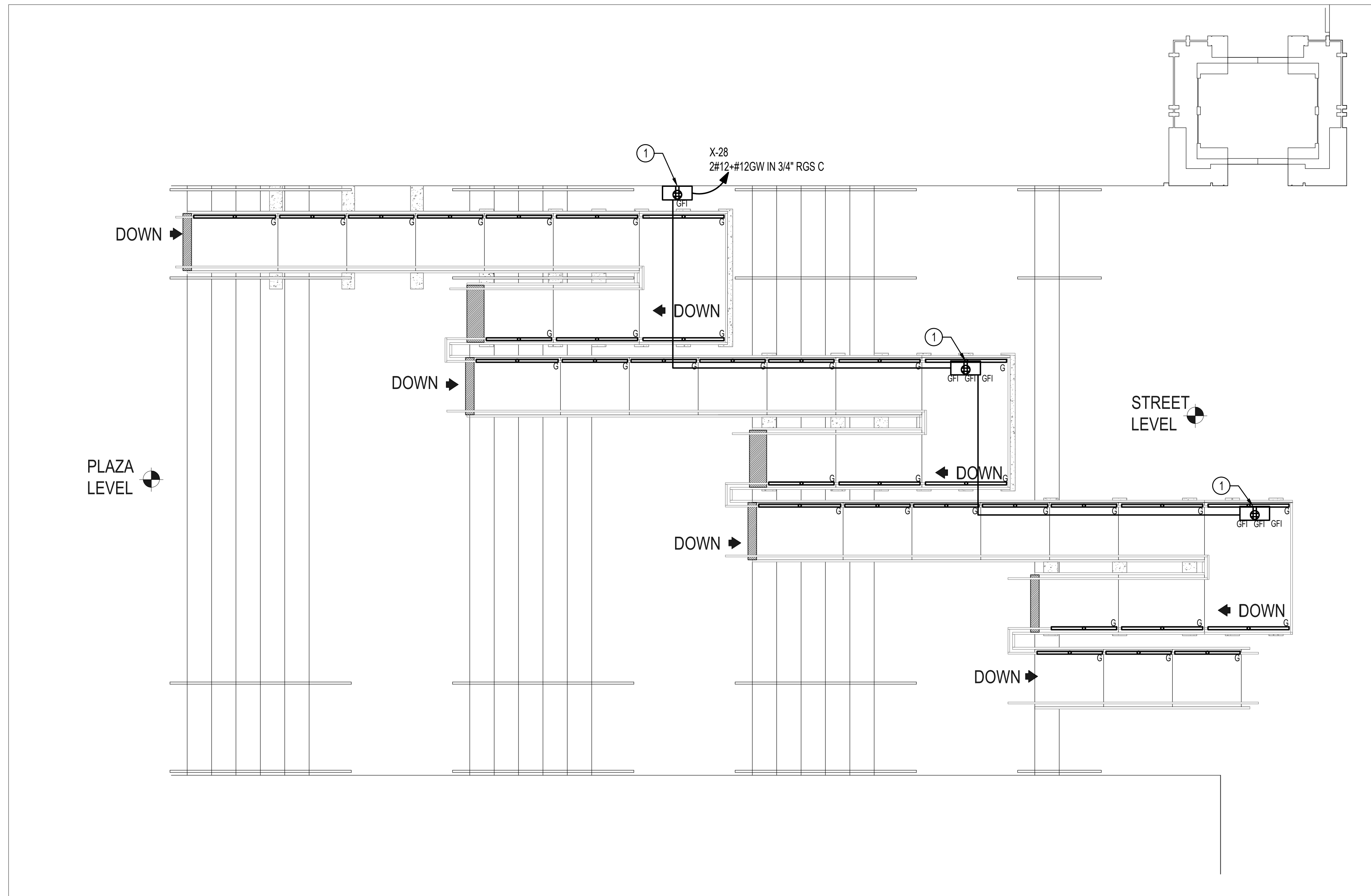
1/2" = 1'-0"

0 1 2 4 6 FT



PLEASE READ ALL PLAN REVIEW COMMENTS





1 MONROE STREET & PLAZA LEVEL RAMP - LIGHTING - NEW WORK  
E-102 1/4" = 1'-0"

**DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)**

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- PROVIDE POWER SYSTEM REPORT INCLUDING SHORT CIRCUIT, SELECTIVE COORDINATION, AND ARC FLASH FOR THE PORTION OF THE POWER DISTRIBUTION SYSTEM THAT IS AFFECTED BY THE PROJECT.

**SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)**

- NEMA 4X BOX

**HENRY ADAMS**  
Consulting Engineers

MECHANICAL ELECTRICAL & PLUMBING ENGINEERS

Key Plan

SCALE: X'-X"

No.	Revision	Date

Project Name  
ROCKVILLE ELEVATOR MODERNIZATION

**DELTA**  
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	Phase 100% SUBMISSION
	Project No.
Robert J. Mack 2-4-2022	Date 02/04/2022

Drawing Title  
**RAMP - ELECTRICAL - NEW WORK**

Drawing No.

E-102

REVIEWED PLAN  
PLEASE READ ALL PLAN REVIEW COMMENTS

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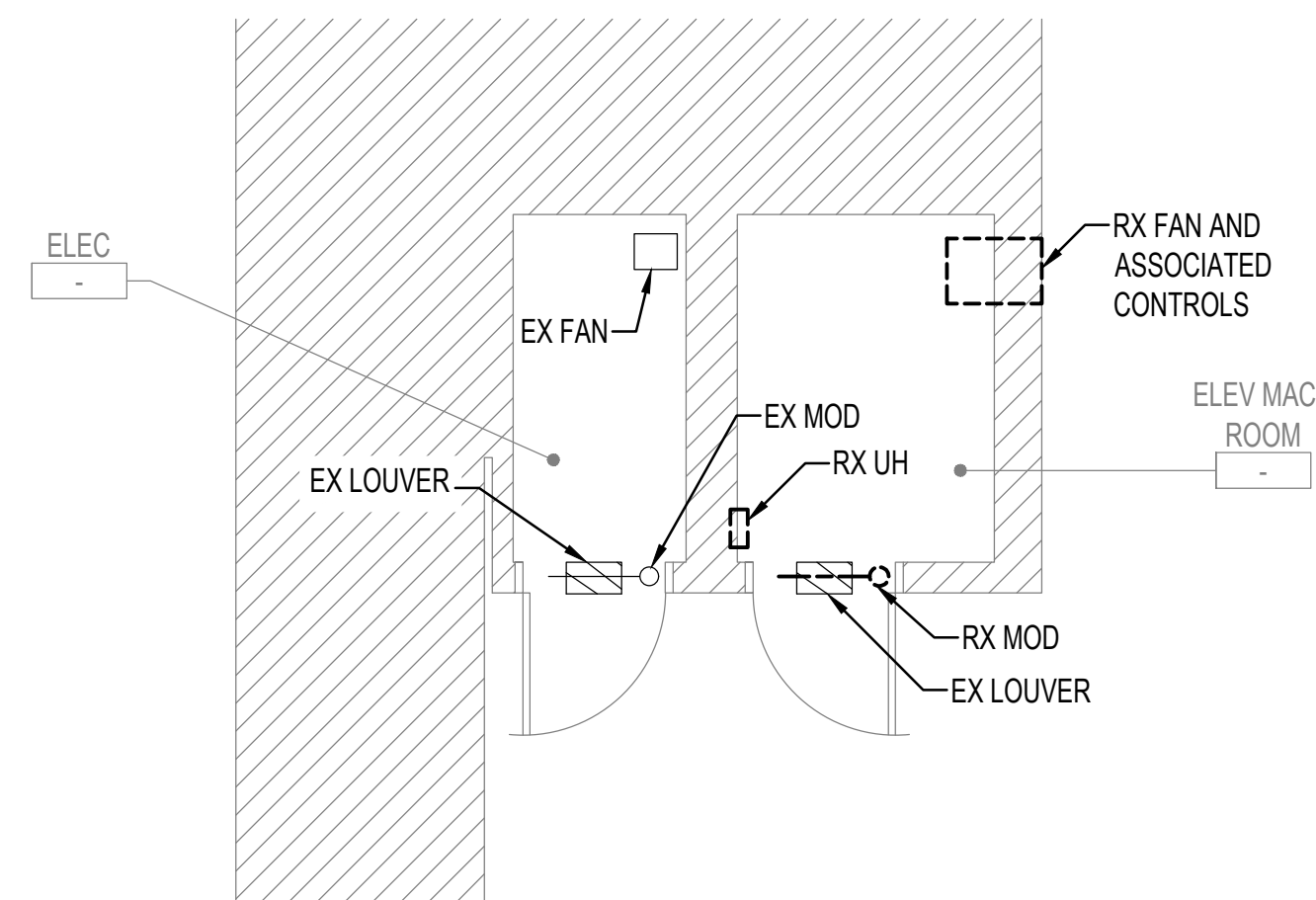


SPLIT SYSTEM AIR CONDITIONERS																	
INDOOR UNIT	CONDENSING UNIT	TYPE	SERVICE	NOM FAN CFM	COOLING CAPACITY (NOTE 2)					HEATING	ELECTRICAL		BASIS OF DESIGN		NOTES		
					INDOOR UNIT						CONDENSING UNIT	TOTAL MBH	EAT (DB)	V/PH		MCA	INDOOR UNIT
					TOTAL MBH	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	MAX EAT	TOTAL MBH	EAT (DB)					
ACU-1	ACCU-1	A	ELEVATOR MACHINE ROOM	650	24	90	67	80	67	115	16.4	80	208/1	17.5	DAIKIN FTXS24LVJU	DAIKIN RXS24LVJU	1

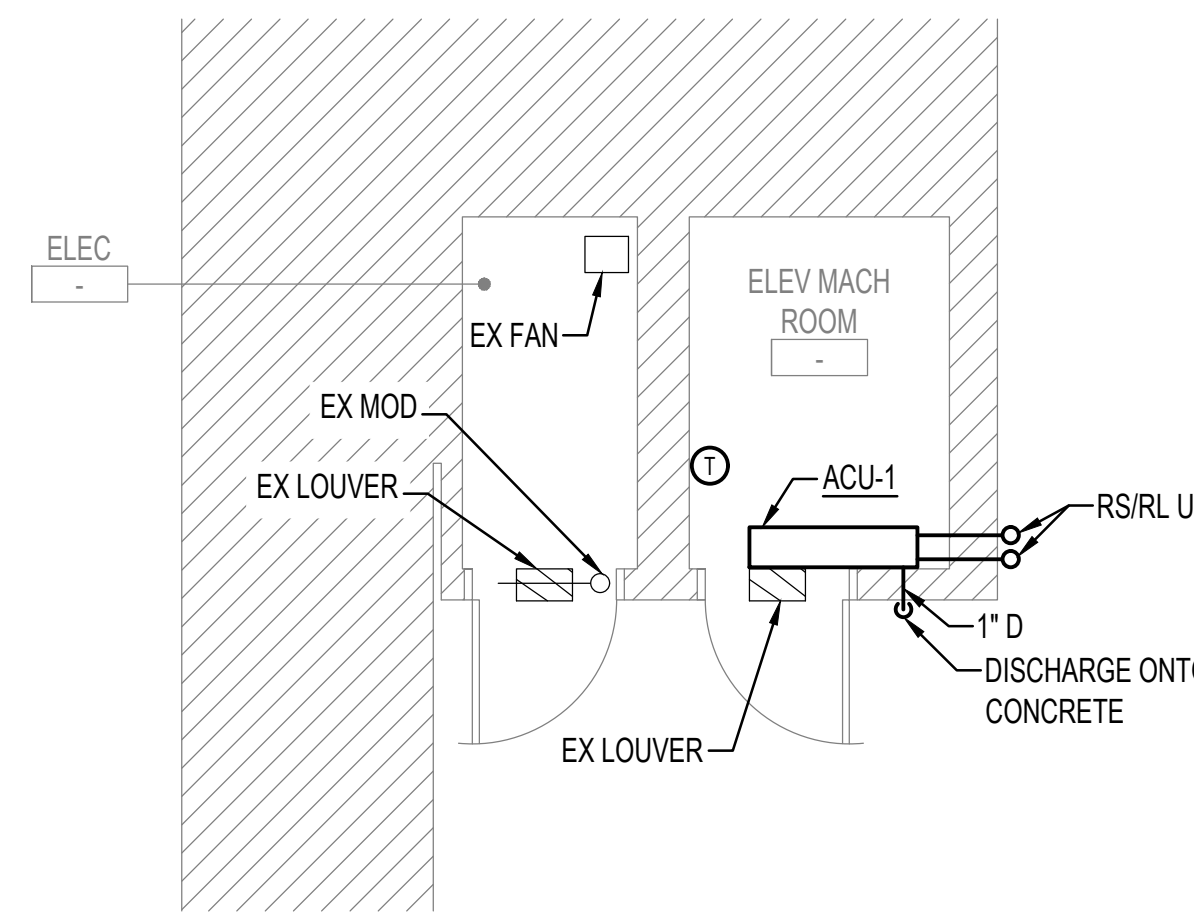
NOTES FOR SPLIT SYSTEM AIR CONDITIONERS:  
 1. INDOOR UNIT SHALL BE INTERLOCKED TO ASSOCIATED CONDENSING UNIT.  
 2. R-410A REFRIGERANT.

**DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)**

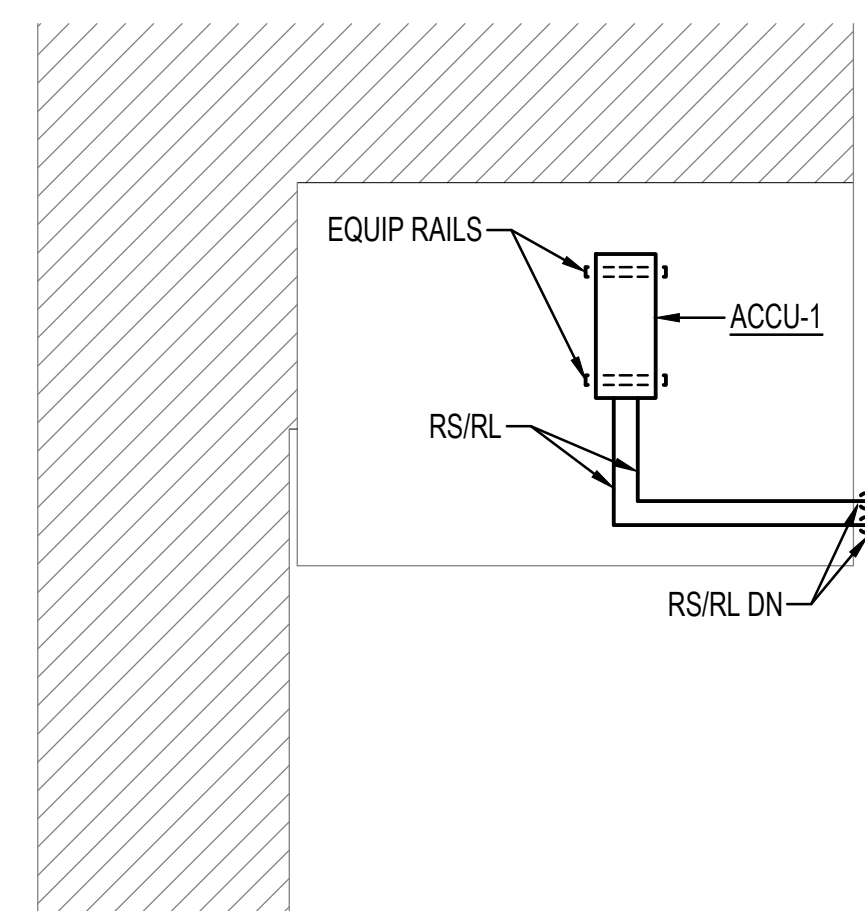
- EXISTING SHOWN WITH LIGHT WEIGHT LINE.
- DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE.
- NEW WORK SHOWN WITH HEAVY WEIGHT LINE.
- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. EXISTING CONDITIONS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, OR THERE IS A QUESTION REGARDING SCOPE OF WORK OR LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COR IN WRITING AND AVOID WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.
- ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS TO THE OWNER FOR RESOLUTION.



1 M-001 1/4" = 1'-0"



2 M-001 1/4" = 1'-0"



3 M-001 1/4" = 1'-0"

**GENERAL MECHANICAL NOTES**  
(APPLICABLE TO ALL MECHANICAL DRAWINGS)

- COORDINATE ALL MECHANICAL AND PLUMBING WORK WITH ELECTRICAL WORK AND WORK OF OTHER TRADES.
- THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- RUN ALL DRAIN PIPING WITH 2 PERCENT MINIMUM GRADE UNLESS OTHERWISE NOTED.
- INSTALL PIPING SO THAT ALL VALVES ARE ACCESSIBLE.
- UNLESS OTHERWISE NOTED, ROUTE ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
- CERTAIN ITEMS SUCH AS ACCESS DOORS, CLEANOUTS, RISE AND DROPS IN PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- WHERE THE INSTALLATION OF NEW SERVICES OR THE EXTENSION OF EXISTING SERVICES REQUIRES CUTTING OF EXISTING FLOORS, WALLS, PARTITIONS, ETC., CHECK FOR THE PRESENCE OF EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SERVICES WITHIN OR IMMEDIATELY BENEATH CONSTRUCTION. EXERCISE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE SERVICES OR INJURY TO PERSONNEL DUE TO CONTACT WITH SAME. TEMPORARILY DISCONNECT SERVICES DURING THE CUTTING OPERATION. SCHEDULE SERVICE OUTAGES IN ADVANCE WITH THE OWNER.
- FLOW SCHEMATIC AND RISER DIAGRAMS INDICATE FLOW AND OPERATION CONCEPTS AS WELL AS GENERAL ARRANGEMENT OF EQUIPMENT, VALVES, PRESSURE GAUGES, ETC. AS SHOWN ON VARIOUS EQUIPMENT DETAILS. SEE PLANS AND DETAILS FOR PIPE SIZES NOT INDICATED ON FLOW SCHEDULES AND RISER DIAGRAMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESEARCHING ALL SYSTEMS THAT A PARTICULAR OUTAGE WILL AFFECT AS WELL AS LOCATING ALL SHUTOFF POINTS. INCLUDE THIS INFORMATION IN THE OUTAGE PLAN AND SUBMIT TO THE OWNER FOR APPROVAL.
- EXCEPT AS OTHERWISE NOTED, LOCATE ALL ROOM THERMOSTATS ABOVE FINISHED FLOOR ON SAME HORIZONTAL CENTERLINE AS LIGHT SWITCH, WHERE LIGHT SWITCH AND THERMOSTAT ARE ADJACENT TO EACH OTHER, LIGHT SWITCH SHALL BE CLOSEST TO THE DOOR. COORDINATE WITH ELECTRICAL CONTRACTOR. NOTIFY THE ENGINEER OF ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
- RECYCLE MERCURY SWITCH THERMOSTATS THAT ARE REMOVED. DELIVER RECYCLED THERMOSTATS TO PARTICIPATING WHOLESALERS.
- REFER TO SPECIFICATION SECTION 232000 FOR PLUMBING SYSTEM PIPING REQUIREMENTS.

**GENERAL NOTES: (APPLICABLE TO ALL MECHANICAL SCHEDULES)**

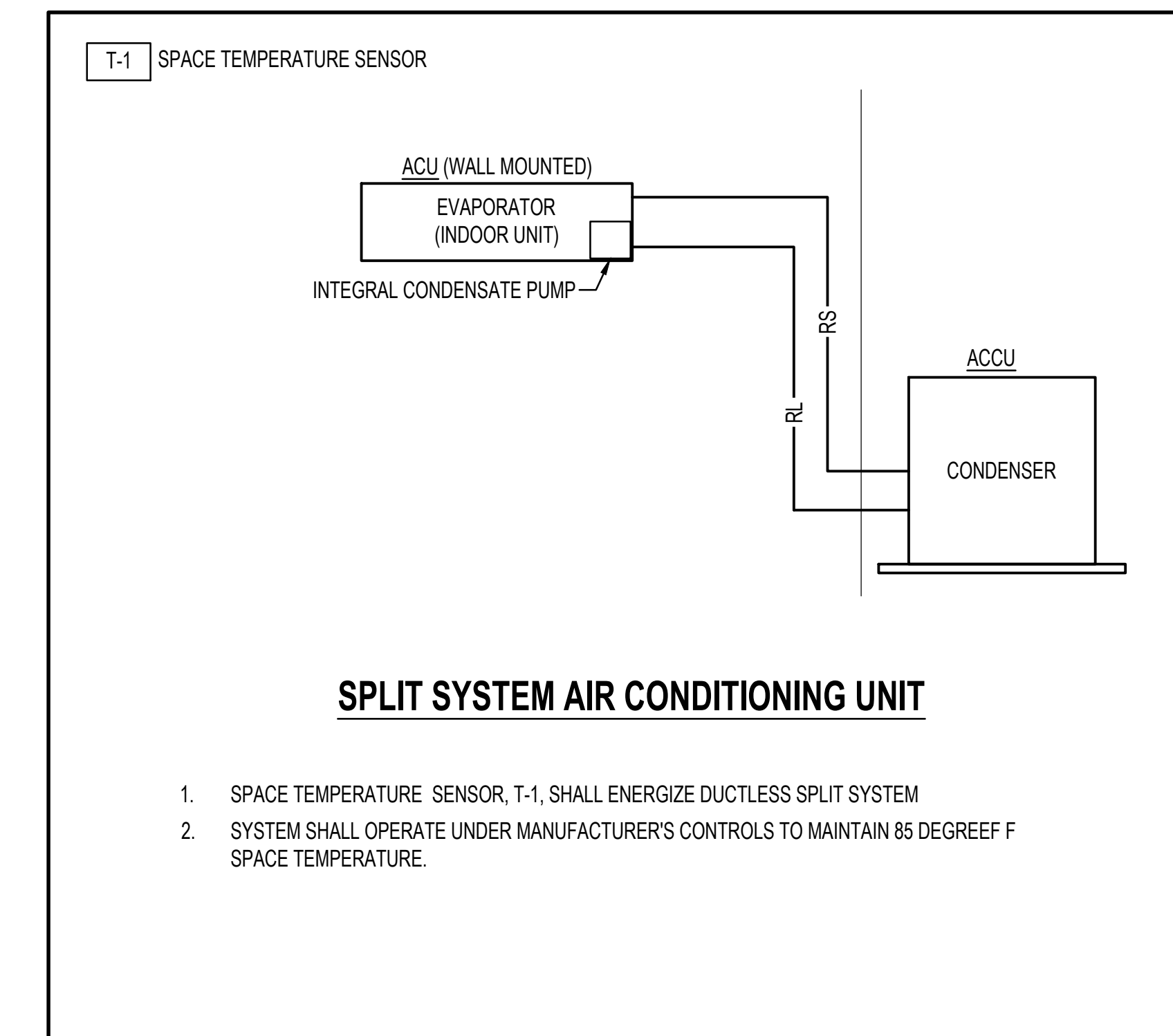
- UNIT NUMBERS ARE INDICATED WHERE ALL UNITS ARE LISTED AND NUMBERED INDIVIDUALLY.
- UNIT TYPES ARE DESCRIBED IN THE SPECIFICATIONS.
- TEMPERATURE VALUES ARE LISTED IN DEGREES FAHRENHEIT.
- FLUID PRESSURE VALUES ARE LISTED IN FEET OF WATER GAGE.
- PIPE SIZES ARE LISTED IN SINGLE-NUMBER INCHES OF NOMINAL DIAMETER OR MULTIPLE NUMBER INCHES OF INDICATED PARAMETER. CONNECTION SIZES ARE BRANCH SIZES FROM MAINS TO UNIT INLETS. SINGLE PIPE SIZE IS TYPICAL FOR SUPPLY AND RETURN.
- AIR VELOCITY VALUES ARE LISTED IN FEET PER MINUTE.

**MECHANICAL LEGEND**  
(APPLICABLE TO ALL MECHANICAL DRAWINGS)

SYMBOL	DESCRIPTION
	TEMPERATURE SENSOR (ADJUSTABLE)
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	DRAIN
	MOTOR OPERATED DAMPER
	PLAN SECTION DESIGNATION TOP - PLAN/SECTION REFERENCE BOTTOM - REFERENCED DRAWING

**MECHANICAL ABBREVIATIONS**  
(APPLICABLE TO ALL MECHANICAL DRAWINGS)

ACCU	AIR COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
CFM	CUBIC FEET PER MINUTE
D	DRAIN
DB	DRY BULB
EAT	ENTERING AIR TEMPERATURE
ELEV EQUIP	ELEVATOR EQUIPMENT
EX	EXISTING
LAT	LEAVING AIR TEMPERATURE
M	MECHANICAL
MBH	THOUSAND BTU PER HOUR
MOD	MOTOR OPERATED DAMPER
N	NORTH
NOM	NOMINAL
PD	PUMP DISCHARGE
PH	PHASE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RX	REMOVE EXISTING
T	TEMPERATURE/ THERMOSTAT
TYP	TYPICAL
UH	UNIT HEATER
V	VOLTS
WB	WET BULB



- SPACE TEMPERATURE SENSOR, T-1, SHALL ENERGIZE DUCTLESS SPLIT SYSTEM
- SYSTEM SHALL OPERATE UNDER MANUFACTURER'S CONTROLS TO MAINTAIN 85 DEGREE F SPACE TEMPERATURE.

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Seal  
  
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Project No.  
0507210339  
Date  
02/04/2022

Drawing Title  
**MECHANICAL COVER SHEET**

Drawing No.  
M-001

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1/4" = 1'-0"

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