

ARCHITECTURAL & STRUCTURAL PLANS  
 FOR PROPOSED  
**CIVIL & ENVIRONMENTAL  
 ENGINEERING RESEARCH CENTER**  
 AT  
**LAFAYETTE COLLEGE**  
 FORMER HUMMEL LUMBER YARD  
 900 BUSHKILL DR. EASTON, PA 18042

OWNER  
 [TEXT]

DESIGN/BUILD CONTRACTOR  
 [TEXT]

STRUCTURAL ENGINEER  
 [TEXT]

CONCEPTUAL DESIGN  
 ARCHITECT  
 [TEXT]

CIVIL/SITE ENGINEER  
 [TEXT]

MECHANICAL, ELECTRICAL, &  
 PLUMBING ENGINEER  
 [TEXT]

PLAN AND REVISION DATES

DATE	DESCRIPTION
05.08.2014	INITIAL SUBMISSION



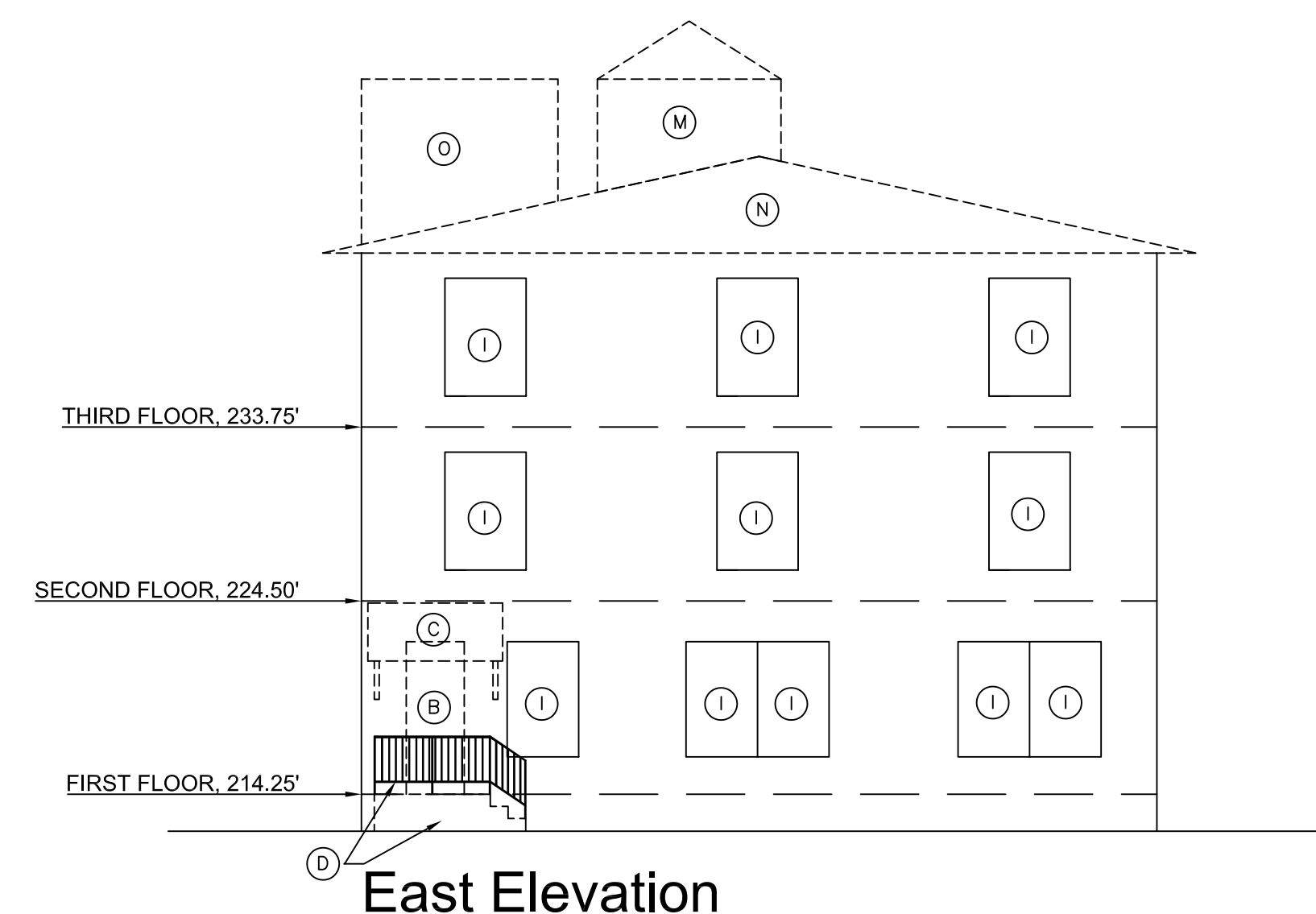
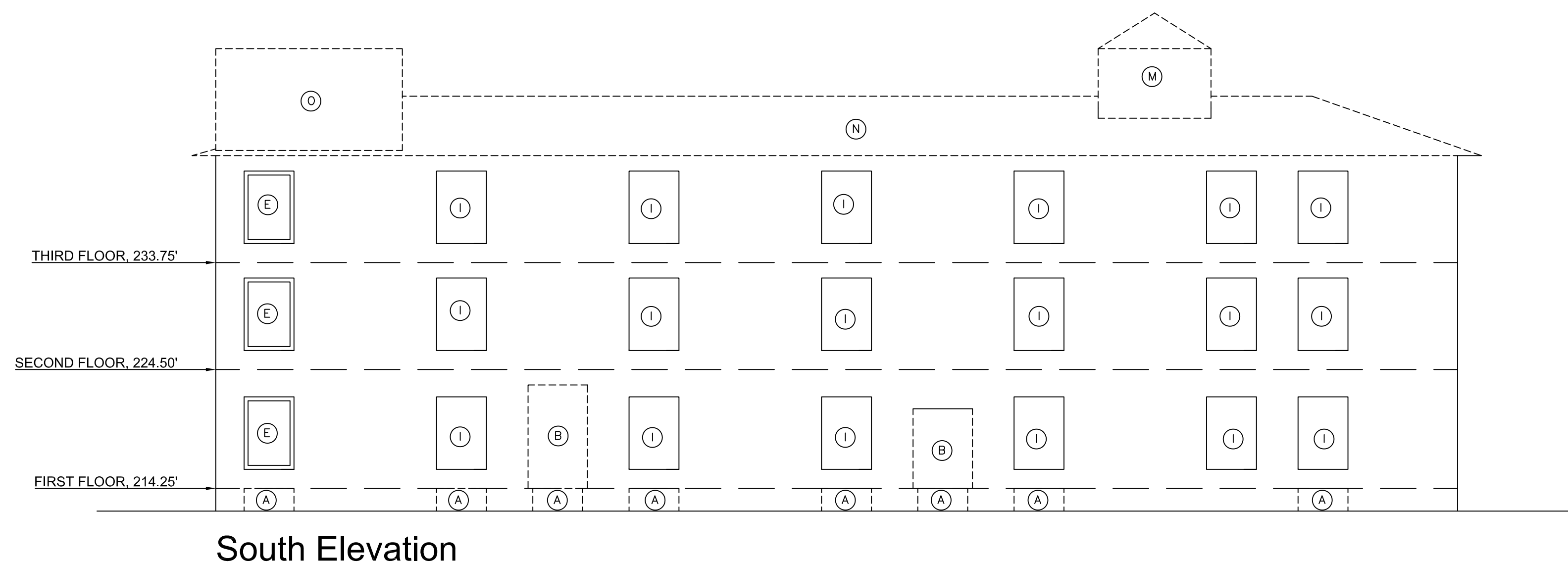
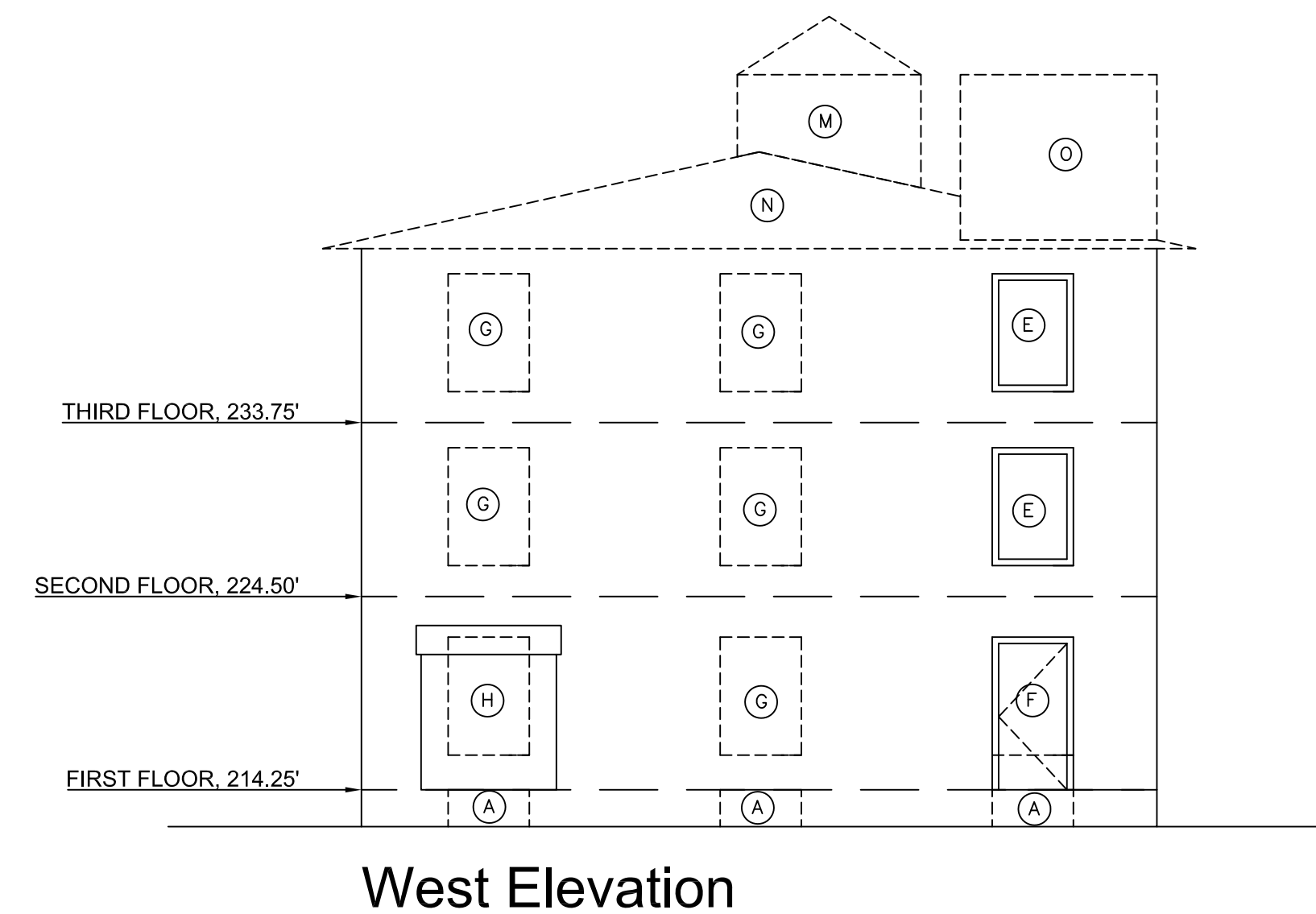
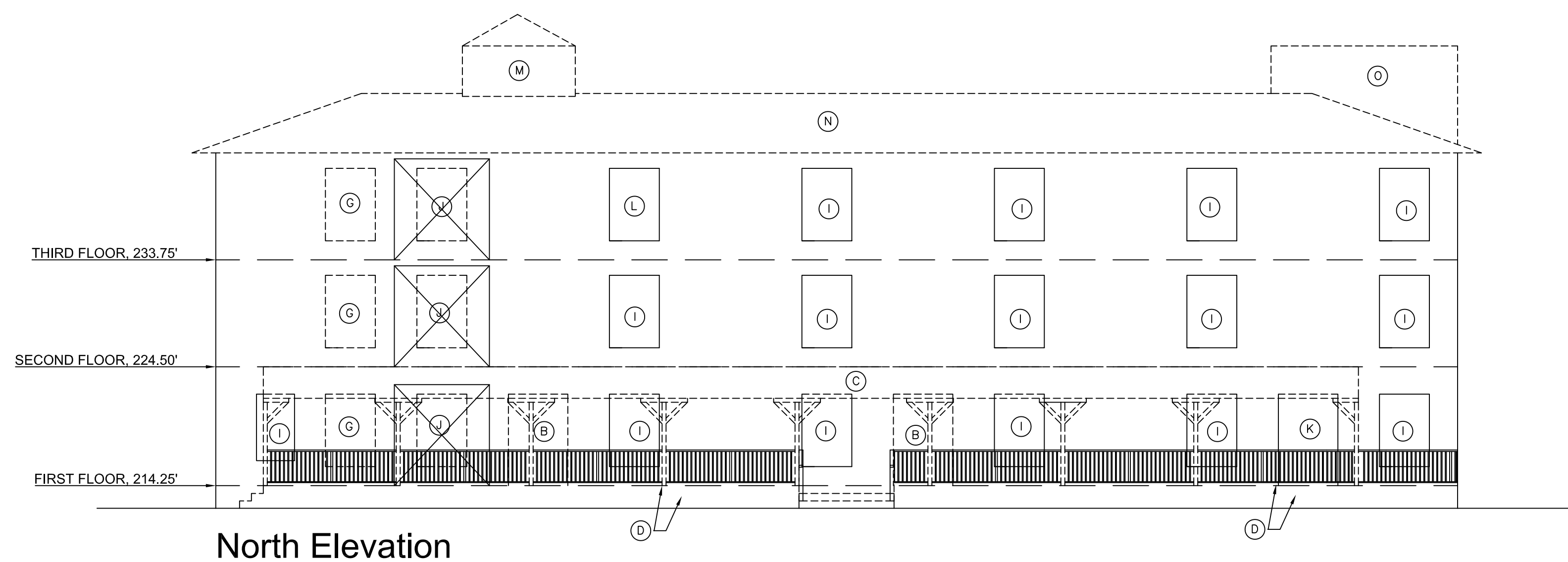
PLAN INDEX

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18 OF 18	ELEVATIONS

NOT FOR CONSTRUCTION

**LAFAYETTE**  
 ENGINEERING COMPANY

Acopian Engineering Center, Lafayette College  
 740 High Street, Easton, PA 18042-1775  
 T: 610-330-5000 Email: spadaccd@lafayette.edu



- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>(A) Remove Existing Window. In-fill with stone masonry to match adjacent stone foundation. Backfill Below Grade</li> <li>(B) Remove existing door/window. In-Fill with concrete masonry blocks matching existing masonry facade.</li> <li>(C) Remove existing porch roof. Restore masonry in-kind as required.</li> <li>(D) Remove porch/entry landing and railing. Restore masonry in-kind as required.</li> <li>(E) Remove CMU in-fill and restore window with new window specifications.</li> <li>(F) Remove existing CMU in-fill and enlarge opening to install 48" wide emergency exit door - match width of ex. windows.</li> <li>(G) Remove existing window. In-fill with concrete masonry blocks matching existing masonry facade.</li> <li>(H) Remove CMU in-fill. Install new header to construct 8'x8' loading dock with exterior mount roll-door.</li> </ul> | <ul style="list-style-type: none"> <li>(I) Remove existing window and replace with new window specifications.</li> <li>(J) Remove existing window. Install new header and enlarge opening to create 7'x7.5' openings to connect each existing floor with new connector building.</li> <li>(K) Replace existing door with new 48" wide +/- emergency exit door-match width of existing windows.</li> <li>(L) Remove existing window to be retrofitted as a pass through from the kitchenette to the 3rd floor of the connector building and outfitted with a roller door.</li> <li>(M) Remove existing cupola.</li> <li>(N) Remove existing roof.</li> <li>(O) Remove existing elevator tower to roofline.</li> </ul> |
|---|--|



PROJECT  
**LAFAYETTE COLLEGE**  
 CIVIL AND ENVIRONMENTAL  
 ENGINEERING RESEARCH  
 CENTER (CEERC)  
 CITY OF EASTON  
 NORTHAMPTON COUNTY, PENNSYLVANIA

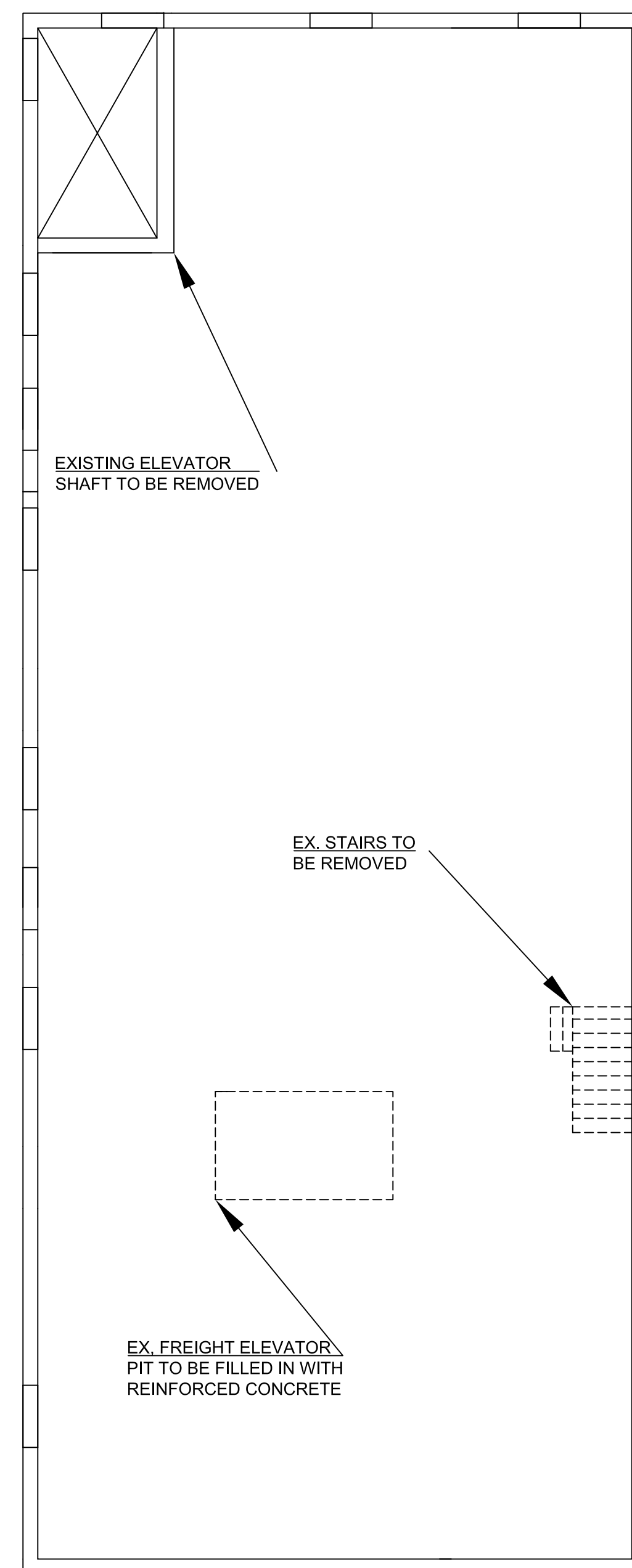
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**Hummel Building  
 Existing Elevations  
 and Demolition Plan**

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SCALE	1/8" = 1'	
DRAWN BY	SPO	
SUBMISSION DATE	5/8/2014	
DRAWING NO.	CE473-S14	
SHEET 2 OF 18		

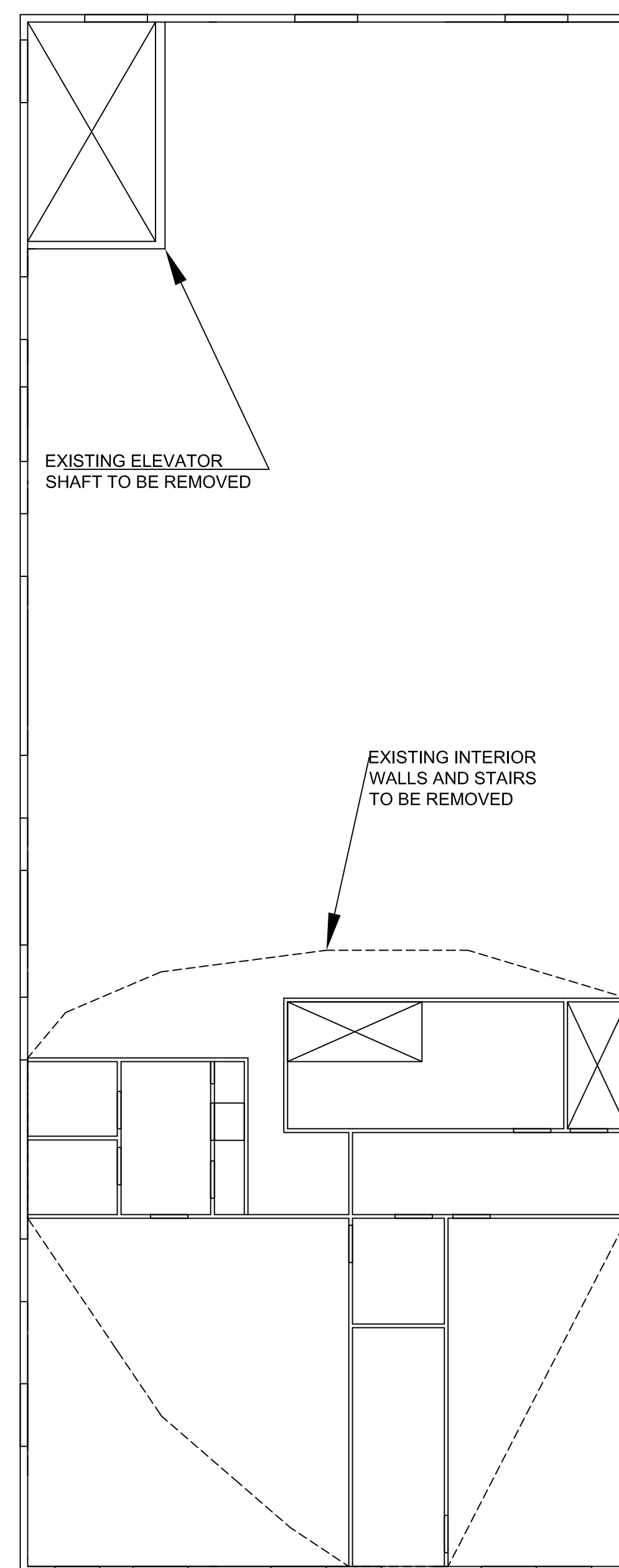


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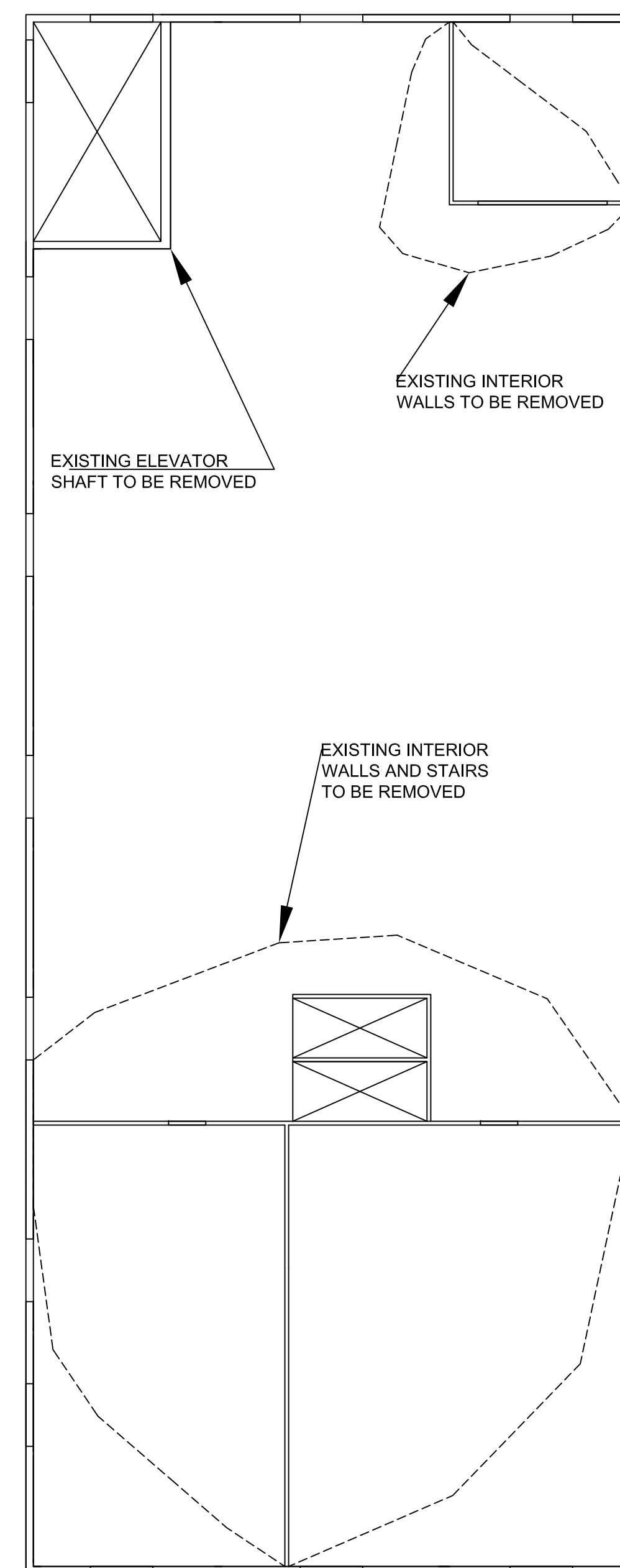
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1/8" = 1'		
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		SHEET 3 OF 18



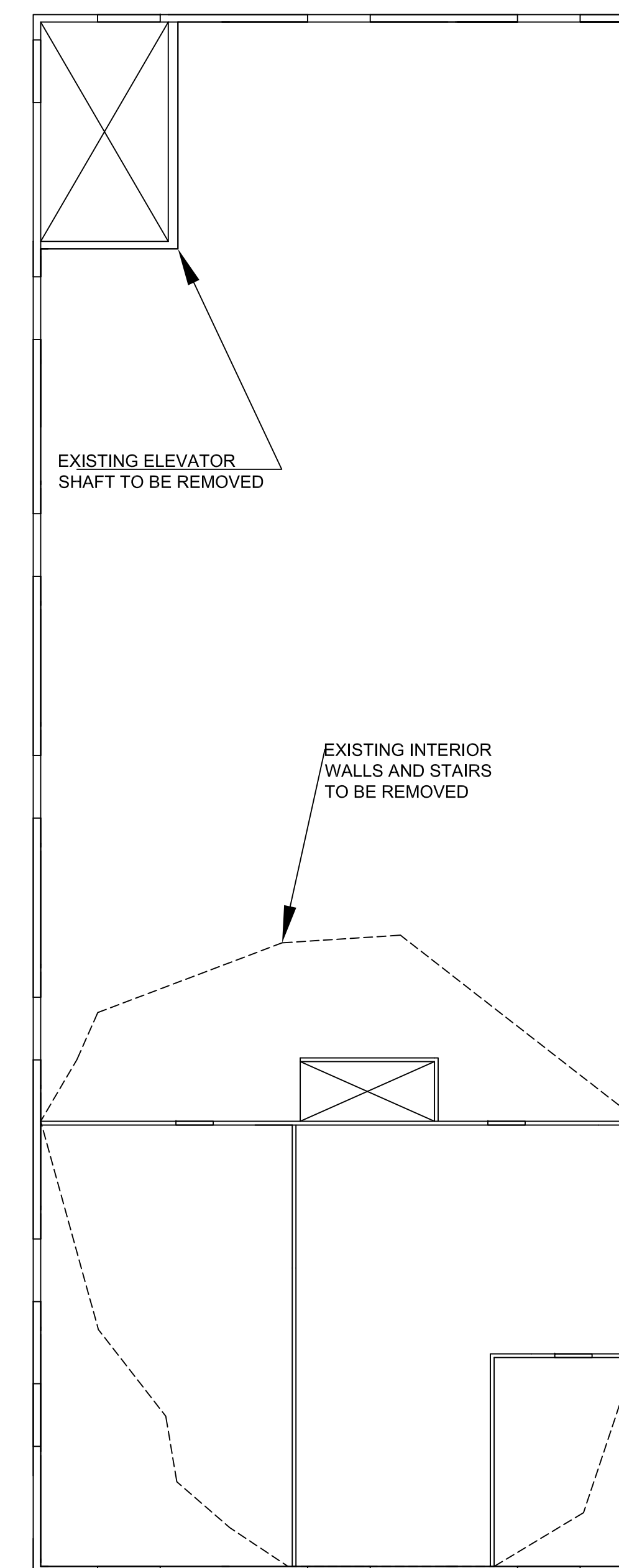
Basement



Ground Floor



Second Floor



Third Floor

DATE	DESCRIPTION	NO.
------	-------------	-----

REVISIONS

SIGNATURE DATE SIGNED

B. N. BEHR  
PROFESSIONAL ENGINEER  
PA Lic. No. PE-0123456

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**ENGINEERING COMPANY**

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PROJECT

LAFAYETTE COLLEGE

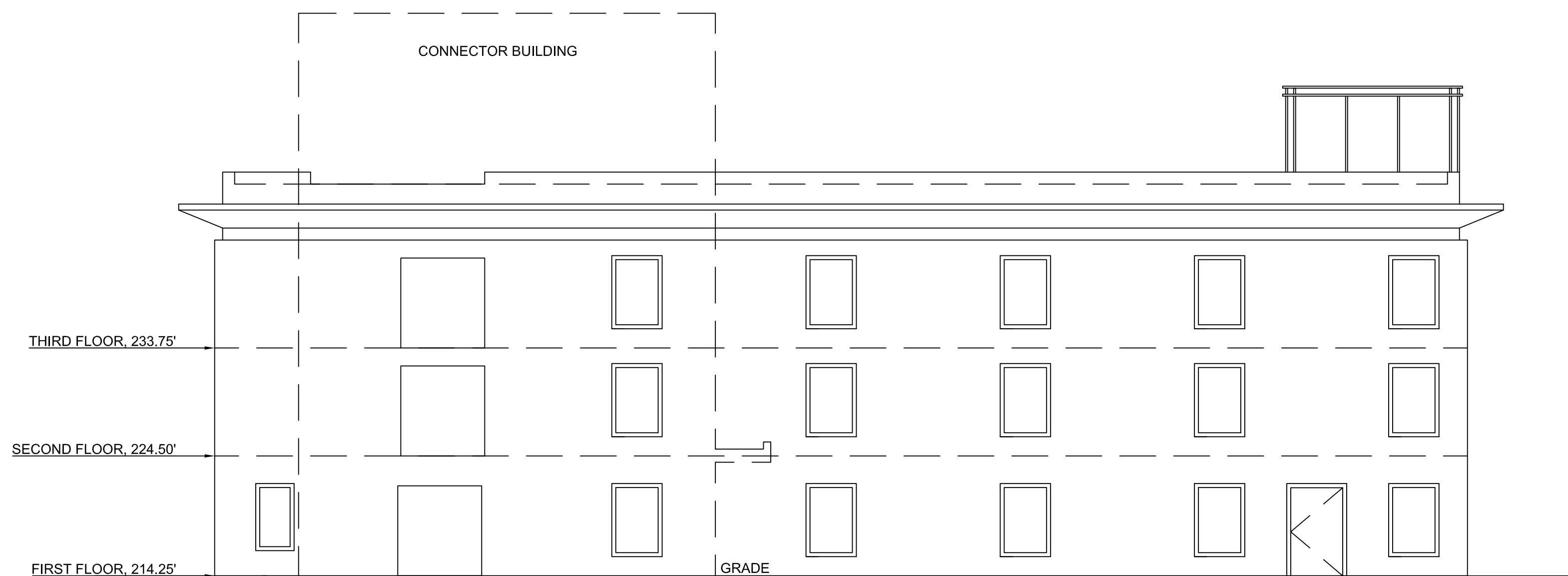
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ENGINEERING RESEARCH  
CENTER (CEERC)

CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

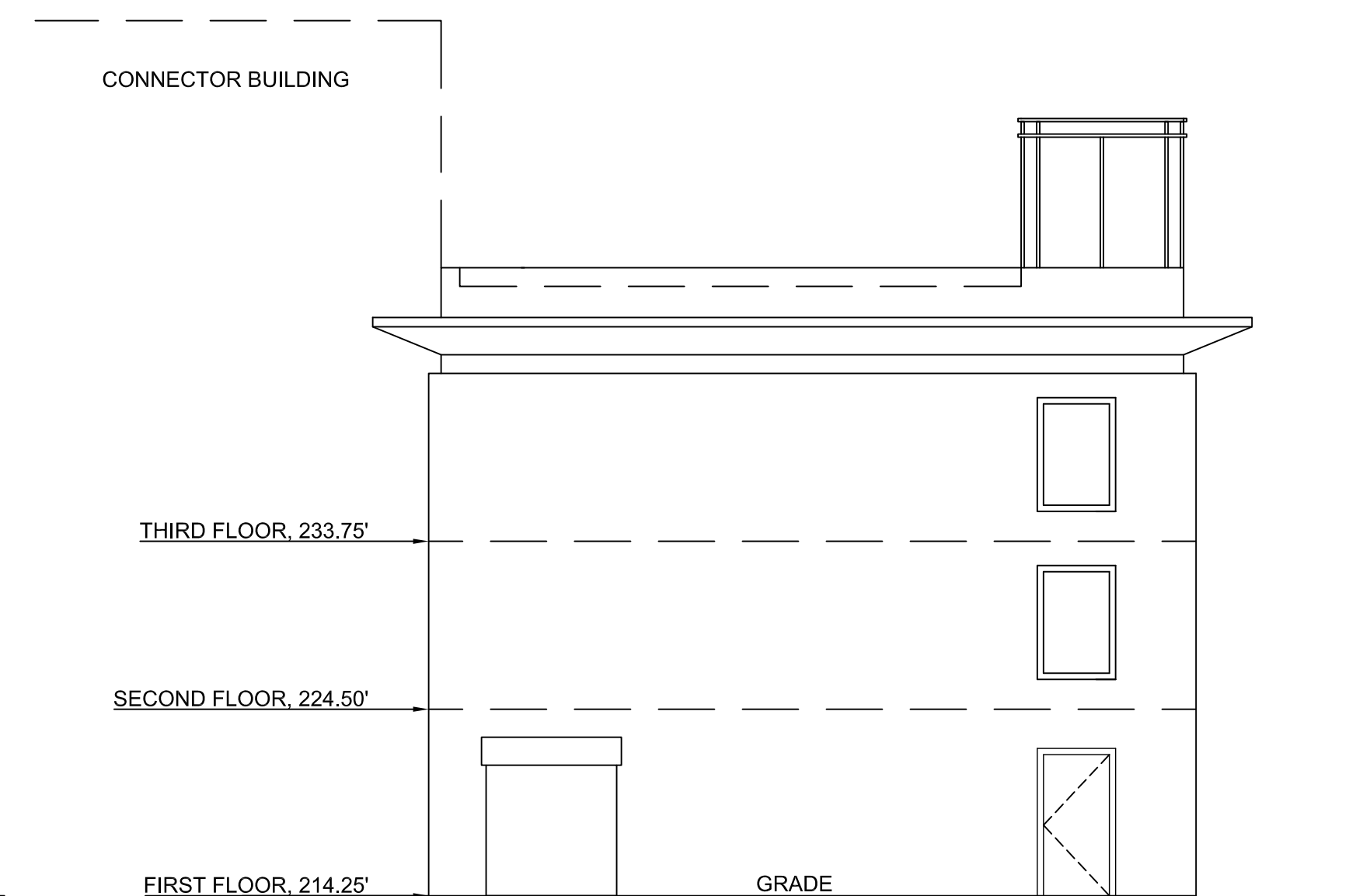
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Proposed Elevations

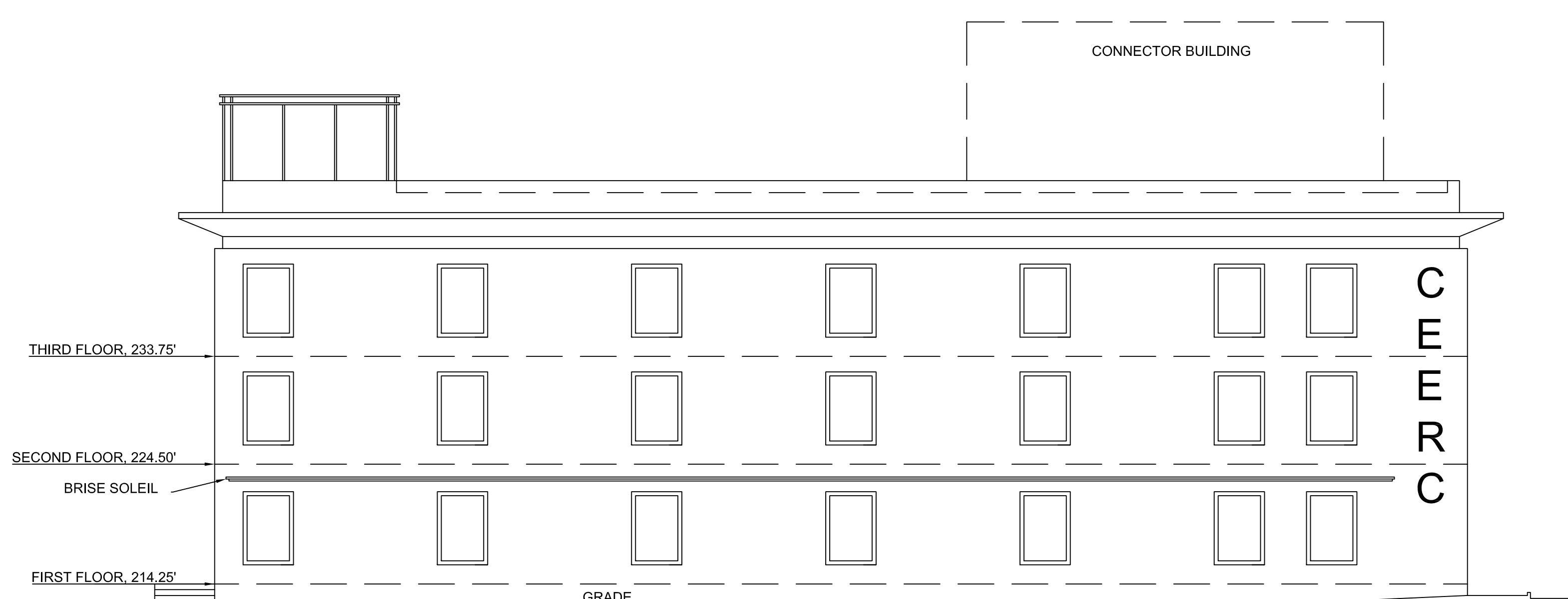
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DRAWN BY	SPO	
SUBMISSION DATE	5/8/2014	
DRAWING NO.		SHEET 4 OF 18



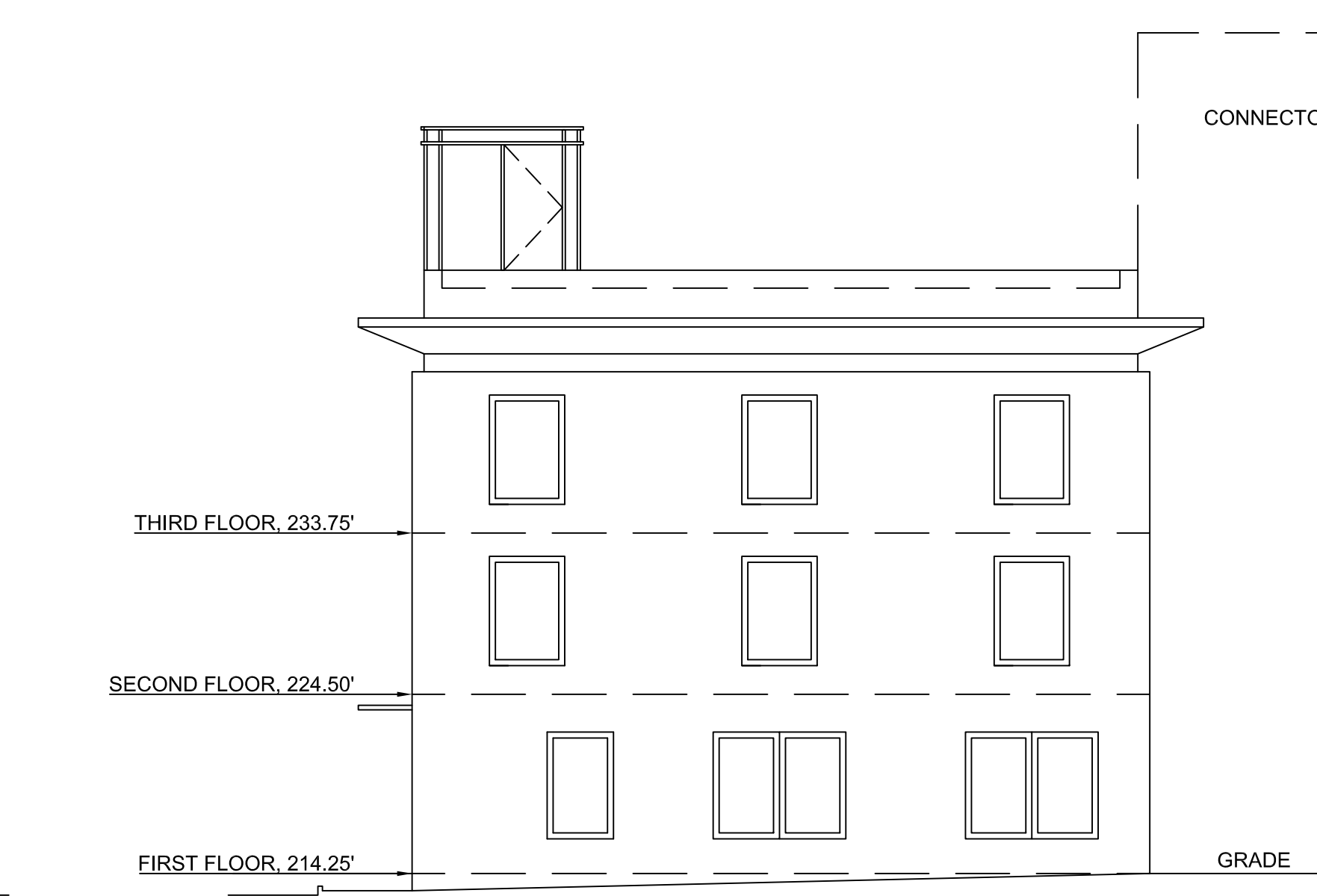
North Elevation



West Elevation



South Elevation



East Elevation

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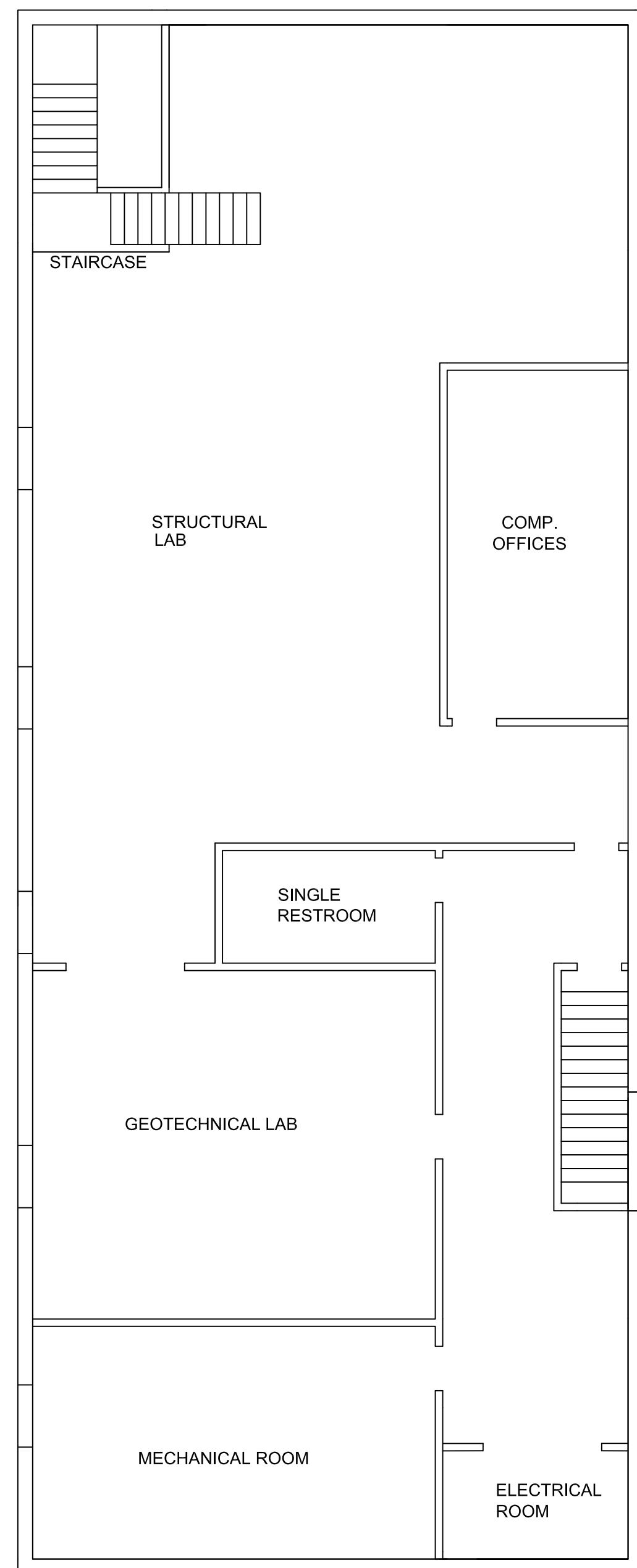
CIVIL AND ENVIRONMENTAL  
ENGINEERING RESEARCH  
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CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

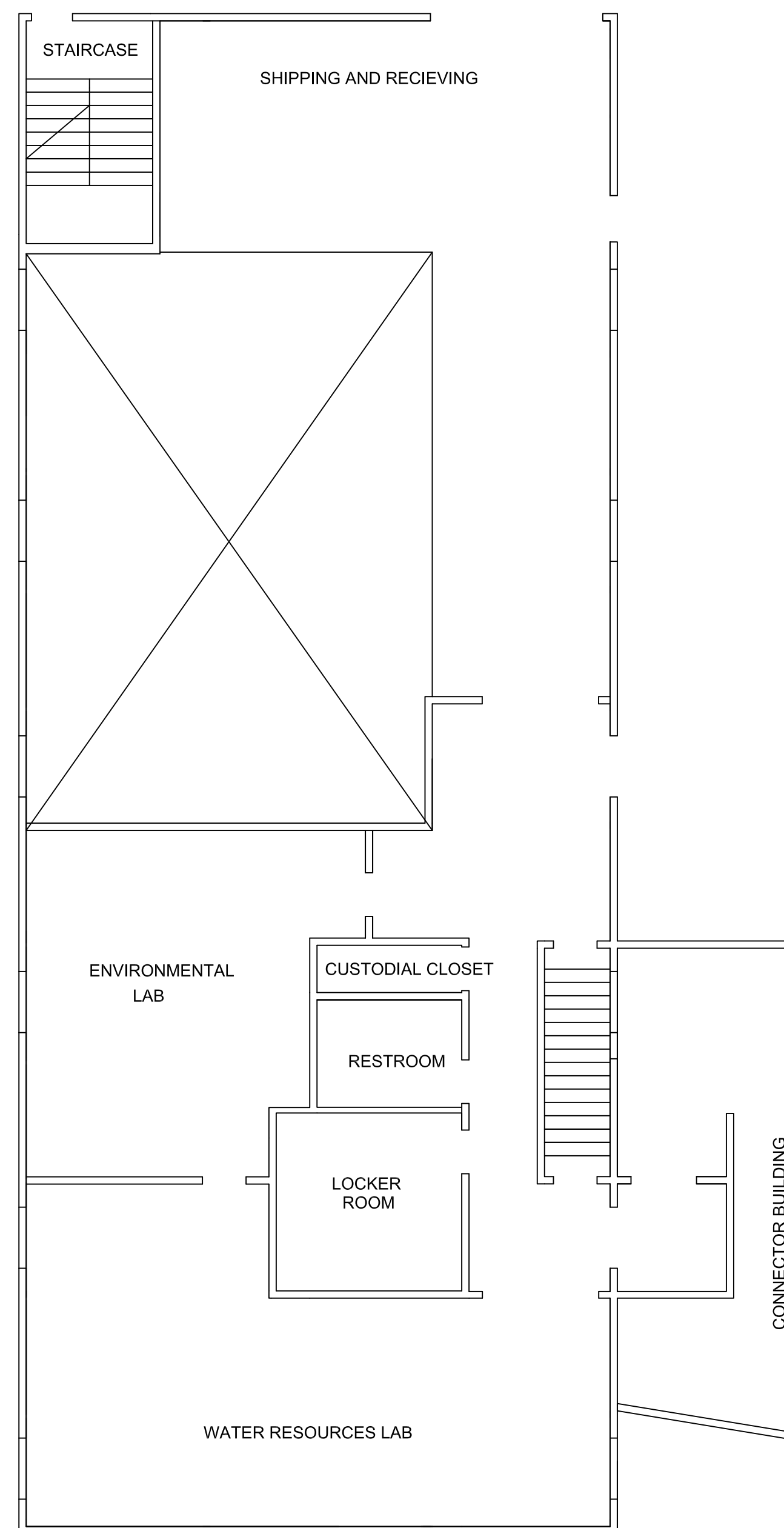
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Hummel Building  
Proposed Floor Plans

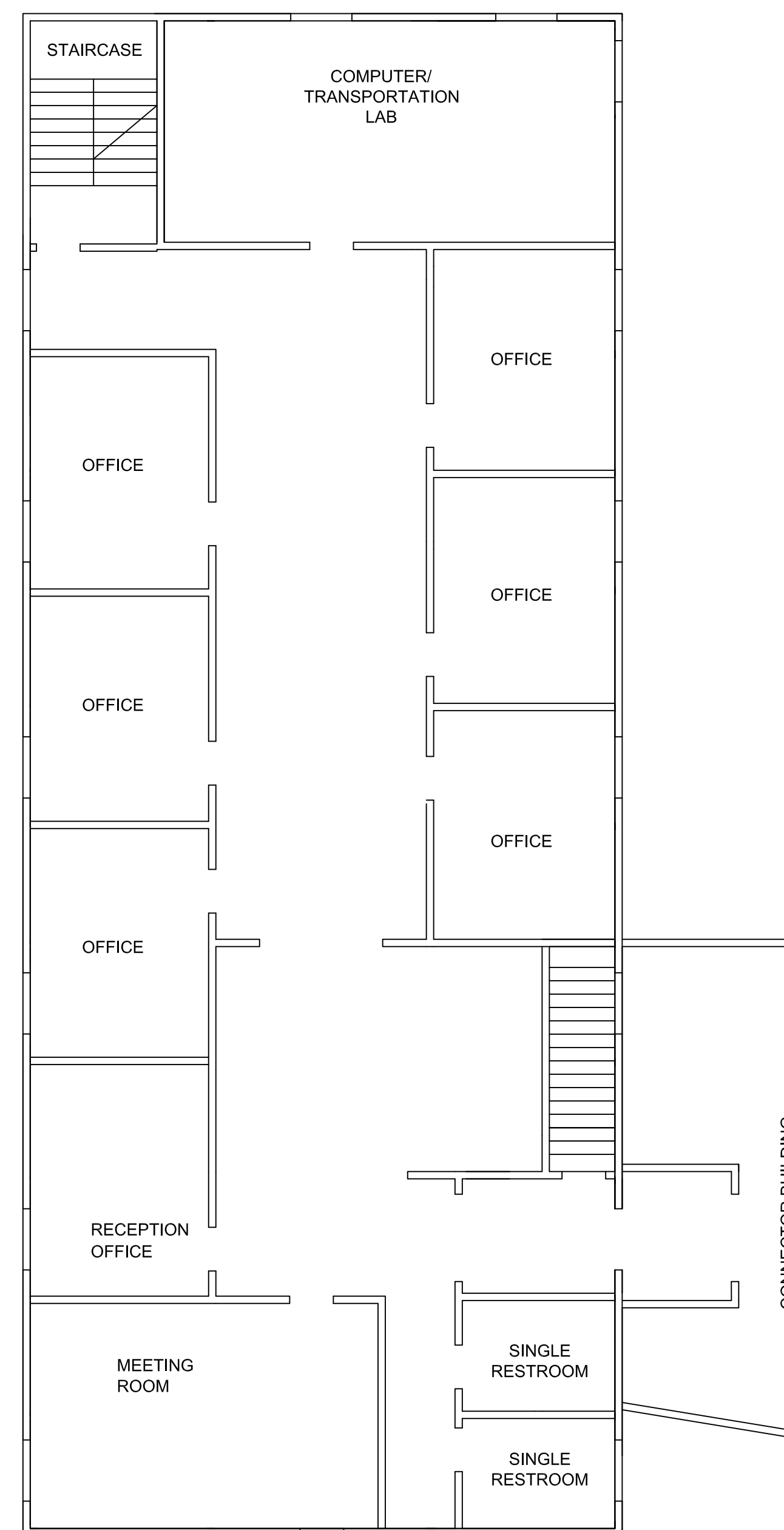
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05/8/2014	AE-5
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1/8" = 1'	
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SPO	
SUBMISSION DATE	SHEET 5 OF 18
5/8/2014	



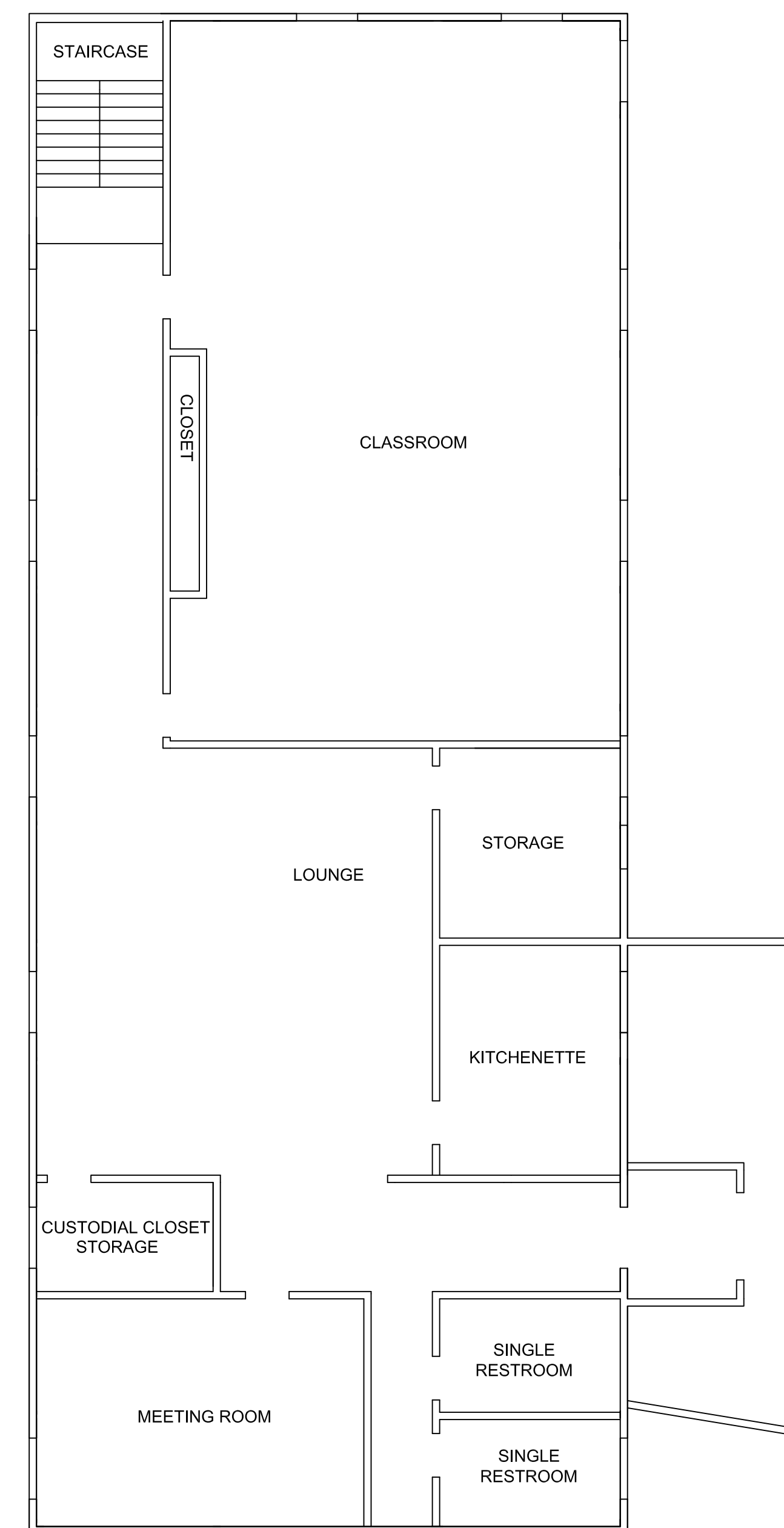
Basement



Ground Floor



Second Floor



Third Floor

SIGNATURE DATE SIGNED

B. N. BEHR  
PROFESSIONAL ENGINEER  
PA Lic. No. PE-0123456



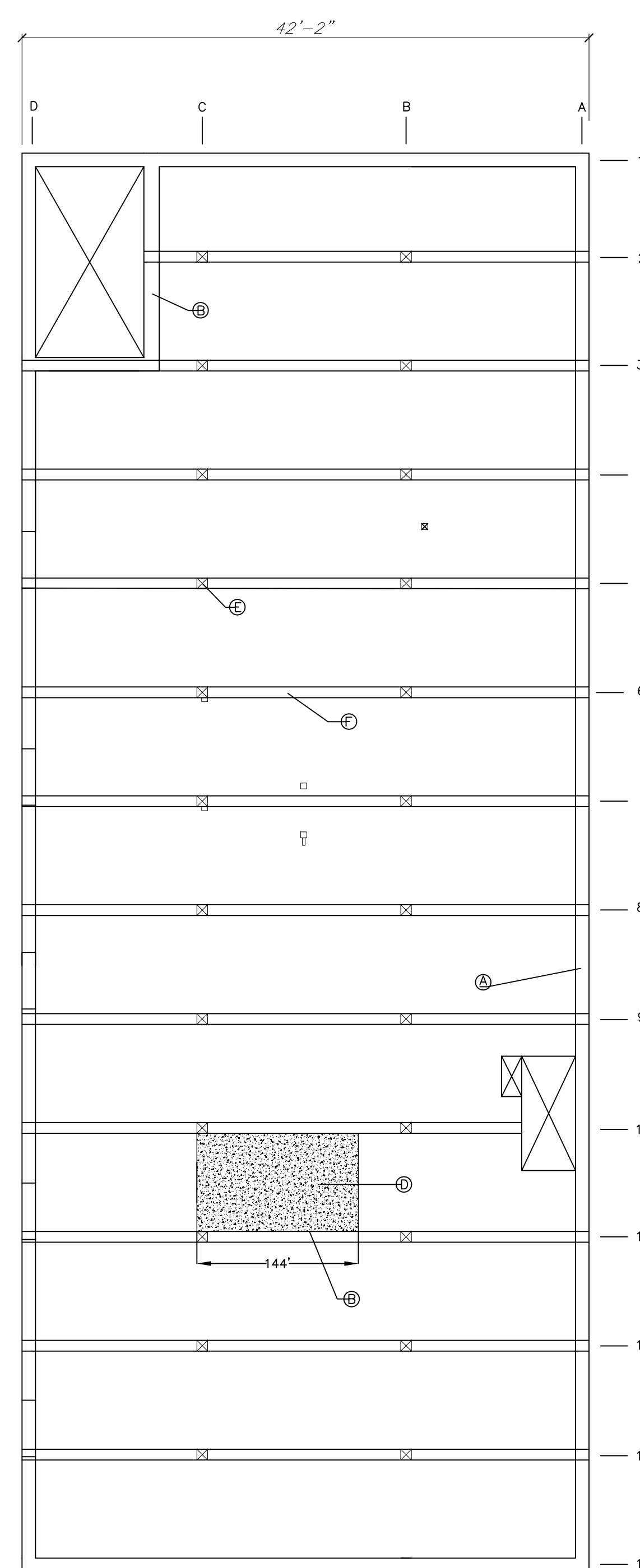
PROJECT  
**LAFAYETTE COLLEGE**

**CIVIL AND ENVIRONMENTAL  
ENGINEERING RESEARCH  
CENTER (CEERC)**

CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

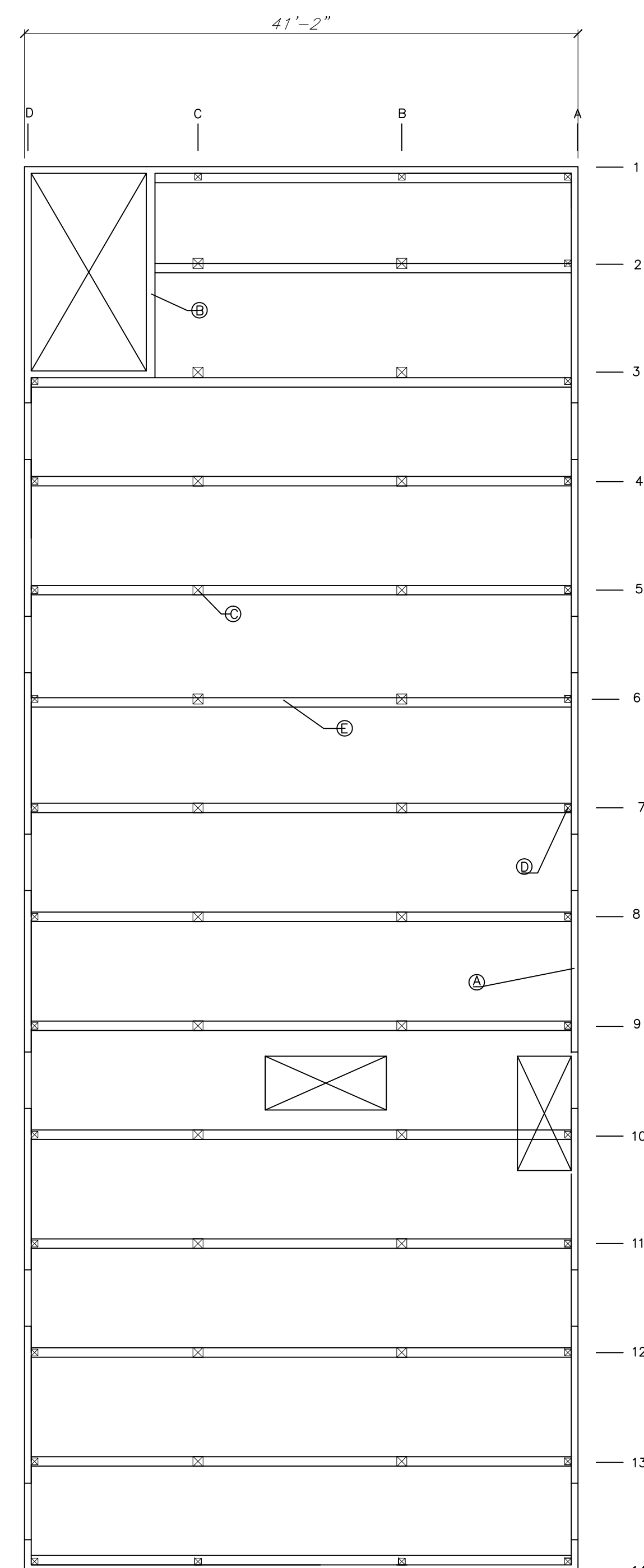
DRAWING TITLE  
**HUMMEL BUILDING  
EXISTING  
STRUCTURAL  
PLANS**

PROJECT NO. CE473-S14	DRAWING NO. <b>AE-6</b>
DATE 5/8/2014	
SCALE 1/8" = 1'	
DRAWN BY BGW, CSM	
SUBMISSION DATE 5/8/2014	
SHEET 6 OF 18	



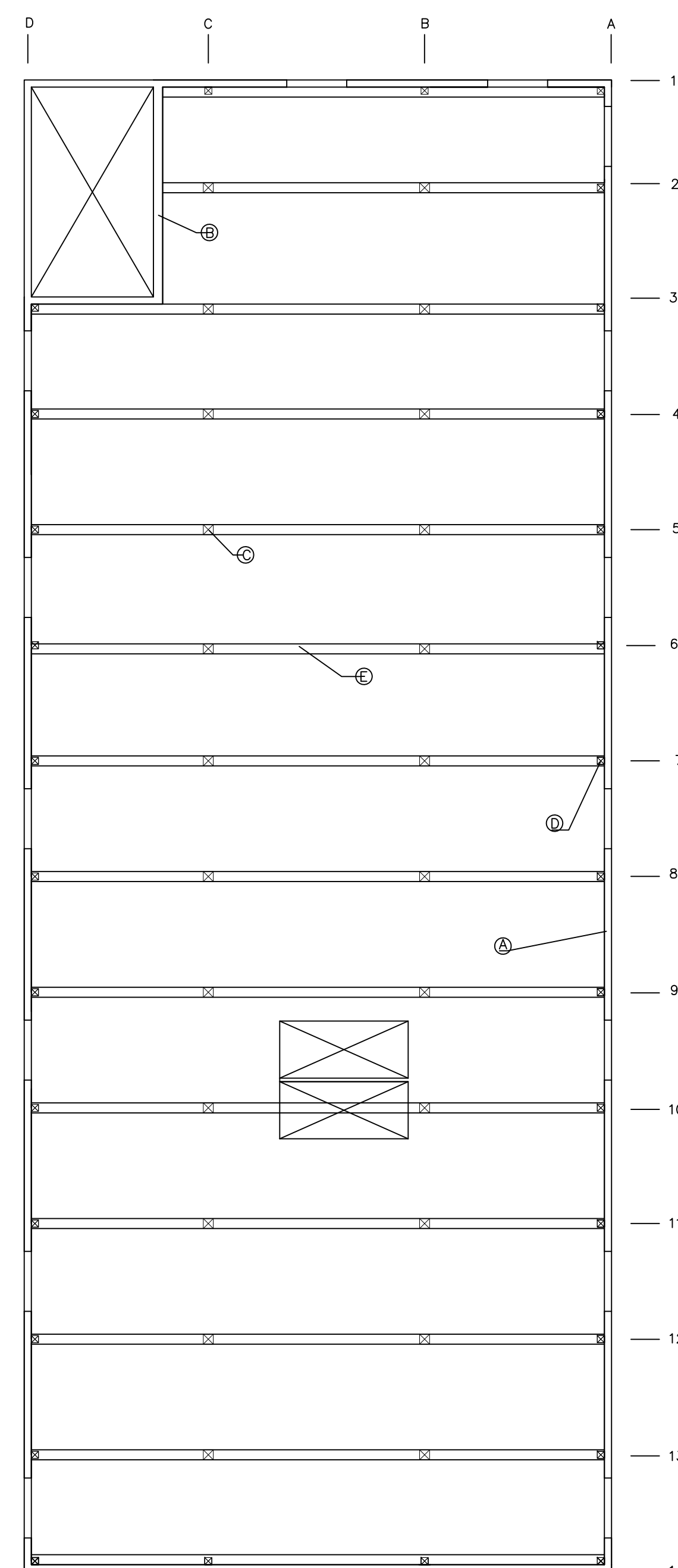
- NOTES:
- Ⓐ OUTSIDE WALLS ARE CONSTRUCTED WITH STONE AND A MORTAR ADHESIVE
  - Ⓑ ELEVATOR SHAFT AND SAFE ARE CONSTRUCTED OF CMU
  - Ⓒ BUILDING COLUMNS, BEAMS AND STAIRS ARE CONSTRUCTED WITH WOOD
  - Ⓓ THE OBJECT IN THIS DRAWING IS A SAFE
  - Ⓔ TYPICAL INTERIOR TIMBER COLUMN 9.6"x9.6"
  - Ⓕ TYPICAL TIMBER BEAM 12"x10"

1ST FLOOR



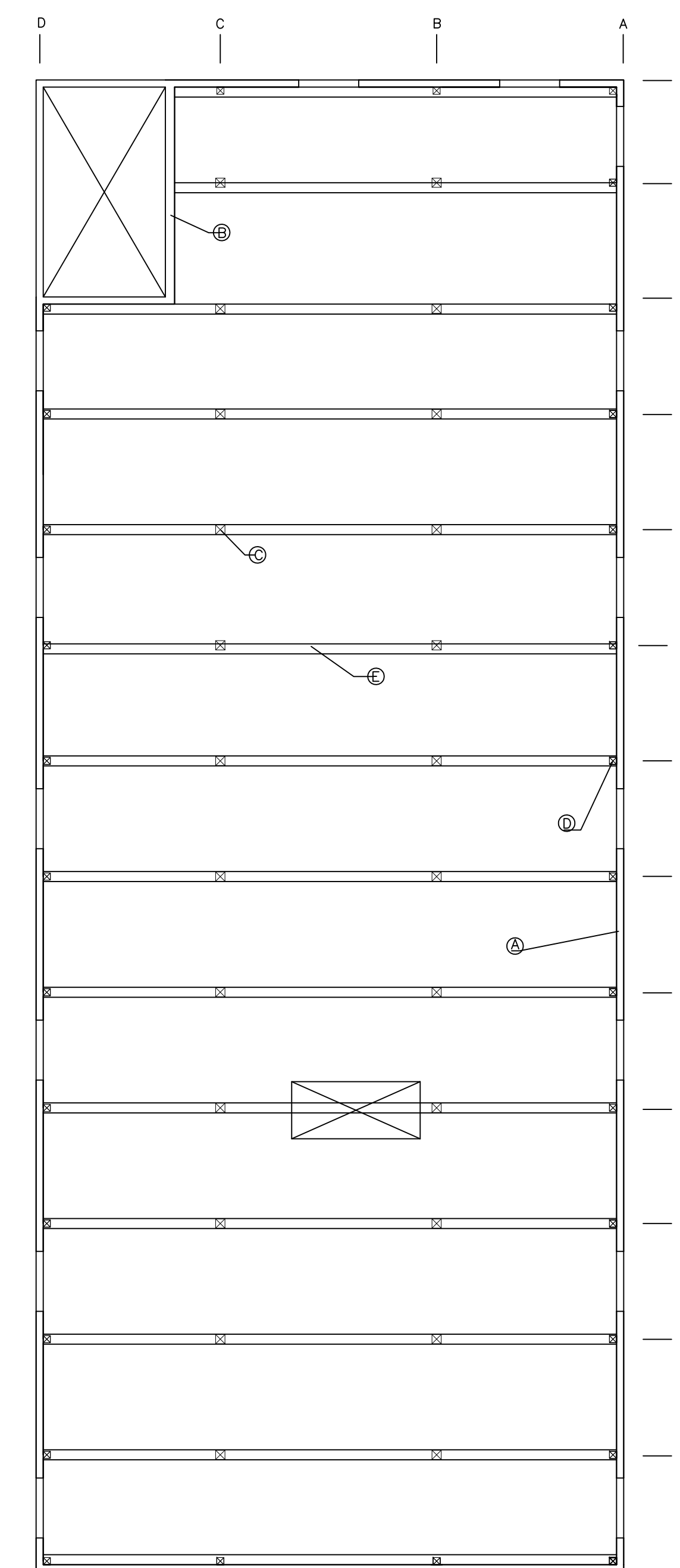
- NOTES:
- Ⓐ OUTSIDE WALLS ARE CONSTRUCTED WITH STONE AND A MORTAR ADHESIVE
  - Ⓑ ELEVATOR SHAFT IS CONSTRUCTED OF CMU
  - Ⓒ TYPICAL INTERIOR TIMBER COLUMN 9"x9"
  - Ⓓ TYPICAL PERIMETER TIMBER COLUMN 6"x6"
  - Ⓔ TYPICAL TIMBER BEAM 12"x10"

2ND FLOOR



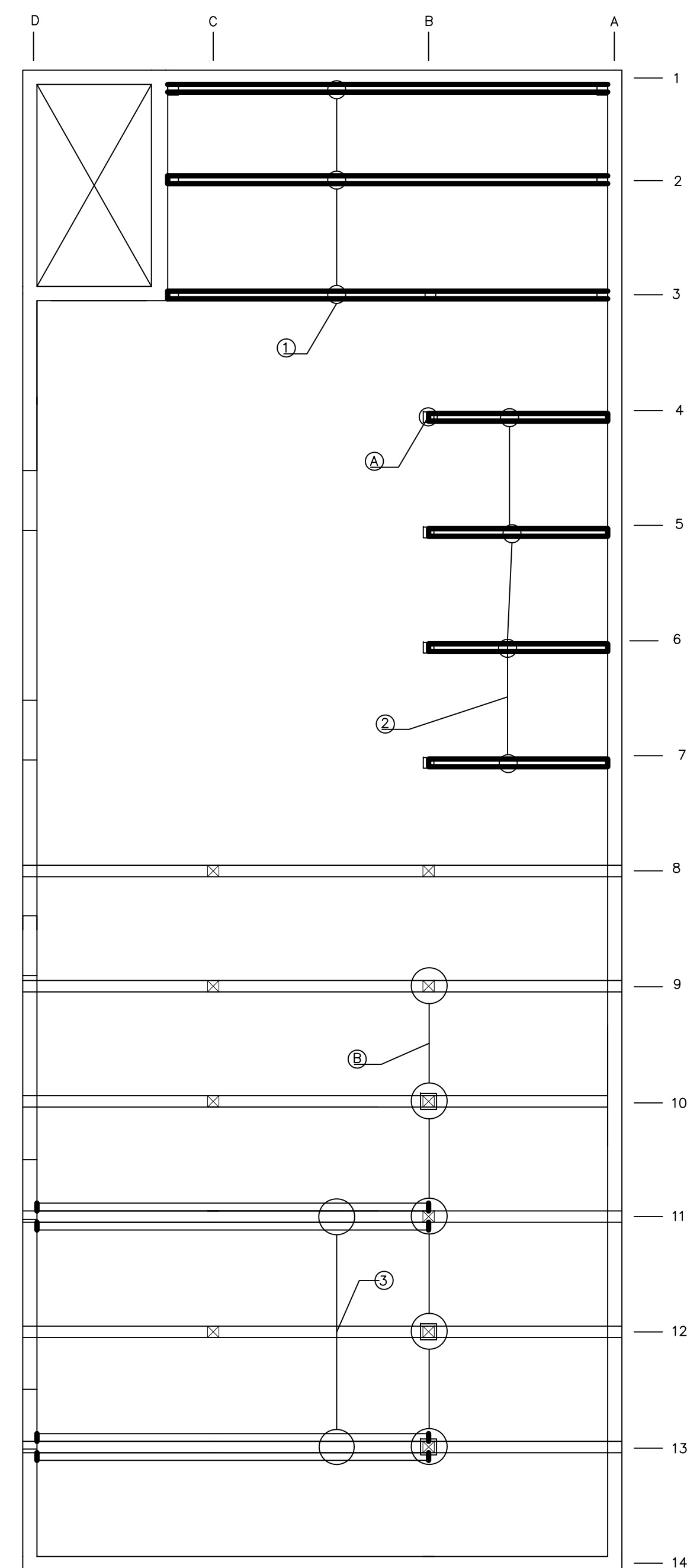
- NOTES:
- Ⓐ OUTSIDE WALLS ARE CONSTRUCTED WITH STONE AND A MORTAR ADHESIVE
  - Ⓑ ELEVATOR SHAFT IS CONSTRUCTED OF CMU
  - Ⓒ TYPICAL INTERIOR TIMBER COLUMN 8.375"x8.375"
  - Ⓓ TYPICAL PERIMETER TIMBER COLUMN 6"x6"
  - Ⓔ TYPICAL TIMBER BEAM 12"x10"

3RD FLOOR

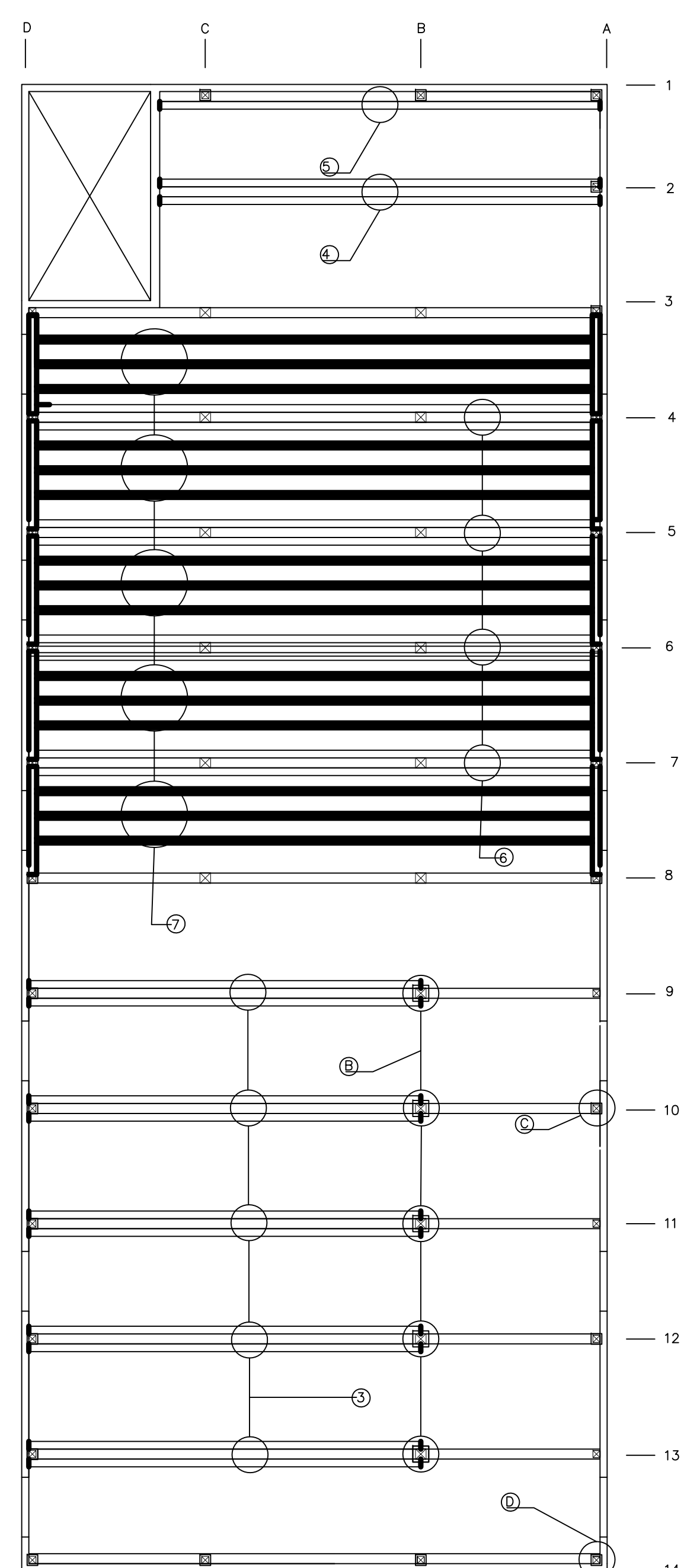


- NOTES:
- Ⓐ OUTSIDE WALLS ARE CONSTRUCTED WITH STONE AND A MORTAR ADHESIVE
  - Ⓑ ELEVATOR SHAFT IS CONSTRUCTED OF CMU
  - Ⓒ TYPICAL INTERIOR TIMBER COLUMN 7.75"x7.75"
  - Ⓓ TYPICAL PERIMETER TIMBER COLUMN 6"x6"
  - Ⓔ TYPICAL TIMBER BEAM 12"x10"

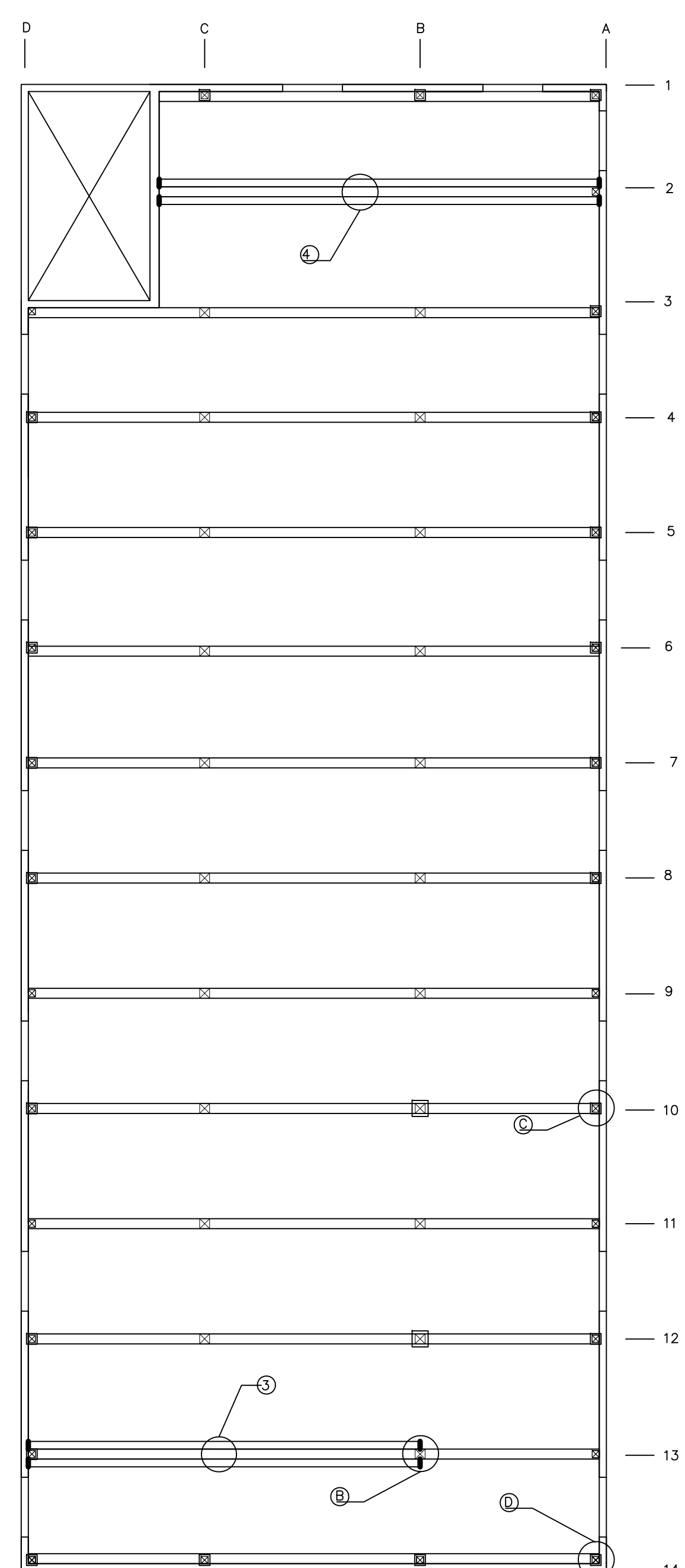
ROOF



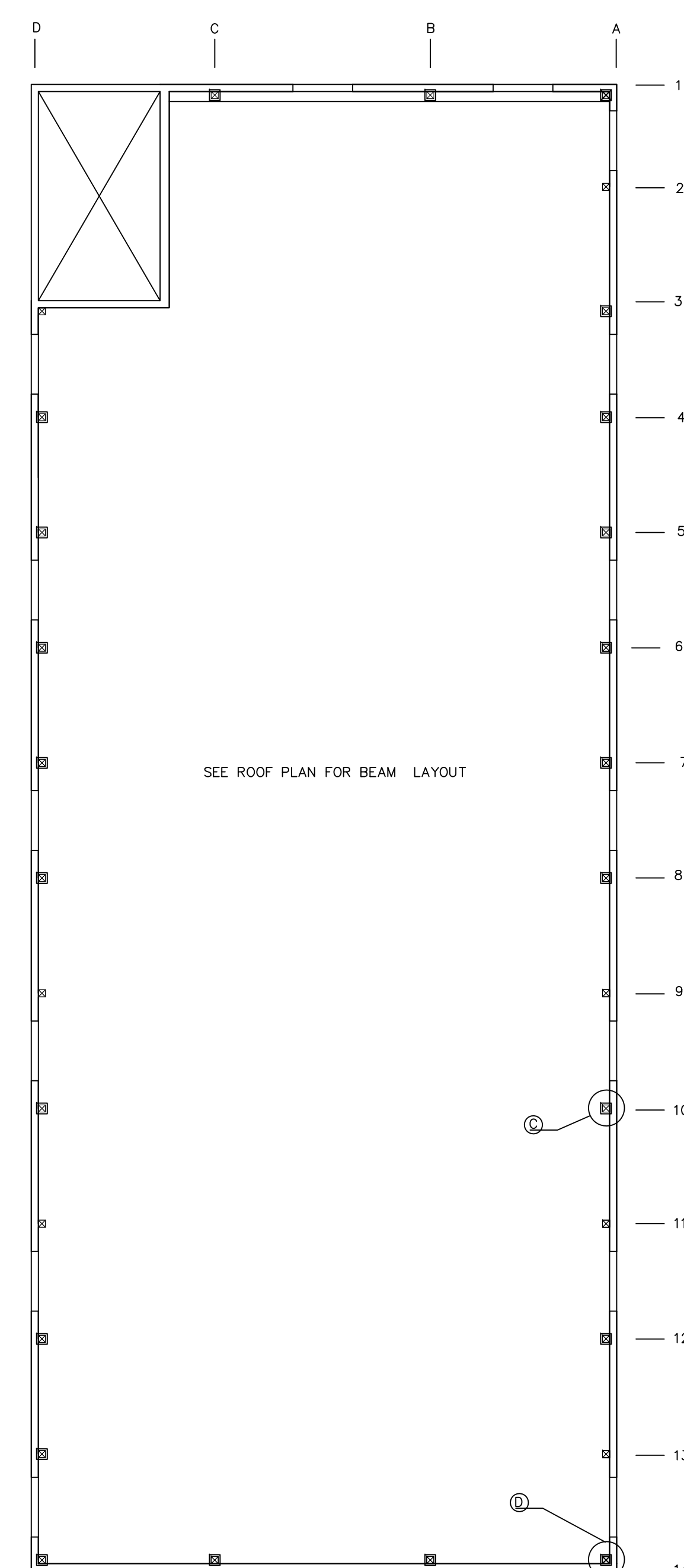
1ST FLOOR



2ND FLOOR



3RD FLOOR



ROOF

- NOTES:
- ① NEW STEEL BEAMS - W12X26
  - ② NEW STEEL BEAMS - W12X26
  - ③ EXISTING TIMBER BEAM REINFORCEMENT - SEE DETAIL 3
  - ④ EXISTING TIMBER BEAM REINFORCEMENT - SEE DETAIL 3
  - ⑤ EXISTING TIMBER BEAM REINFORCEMENT - SEE DETAIL 3 (USE ONLY 1 I-BEAM)
  - ⑥ EXISTING TIMBER BEAM REINFORCEMENT - SEE DETAIL 3
  - ⑦ K-JOISTS - 22K5 JOISTS
  - ⑧ NEW STEEL COLUMN - W8X31
  - ⑨ INTERIOR TIMBER COLUMN REINFORCEMENT - SEE DETAIL A
  - ⑩ EVERY EVEN NUMBERED EDGE COLUMN IS REINFORCED - SEE DETAIL A
  - ⑪ EVERY CORNER COLUMN IS REINFORCED - SEE DETAIL A

SIGNATURE DATE SIGNED

B. N. BEHR  
PROFESSIONAL ENGINEER  
PA Lic. No. PE-0123456



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PROJECT  
LAFAYETTE COLLEGE

CIVIL AND ENVIRONMENTAL  
ENGINEERING RESEARCH  
CENTER (CEERC)

CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

DRAWING TITLE  
HUMMEL BUILDING  
PROPOSED  
STRUCTURAL  
PLANS

PROJECT NO.  
CE473-S14

DATE  
5/8/2014

SCALE  
1/8" = 1'

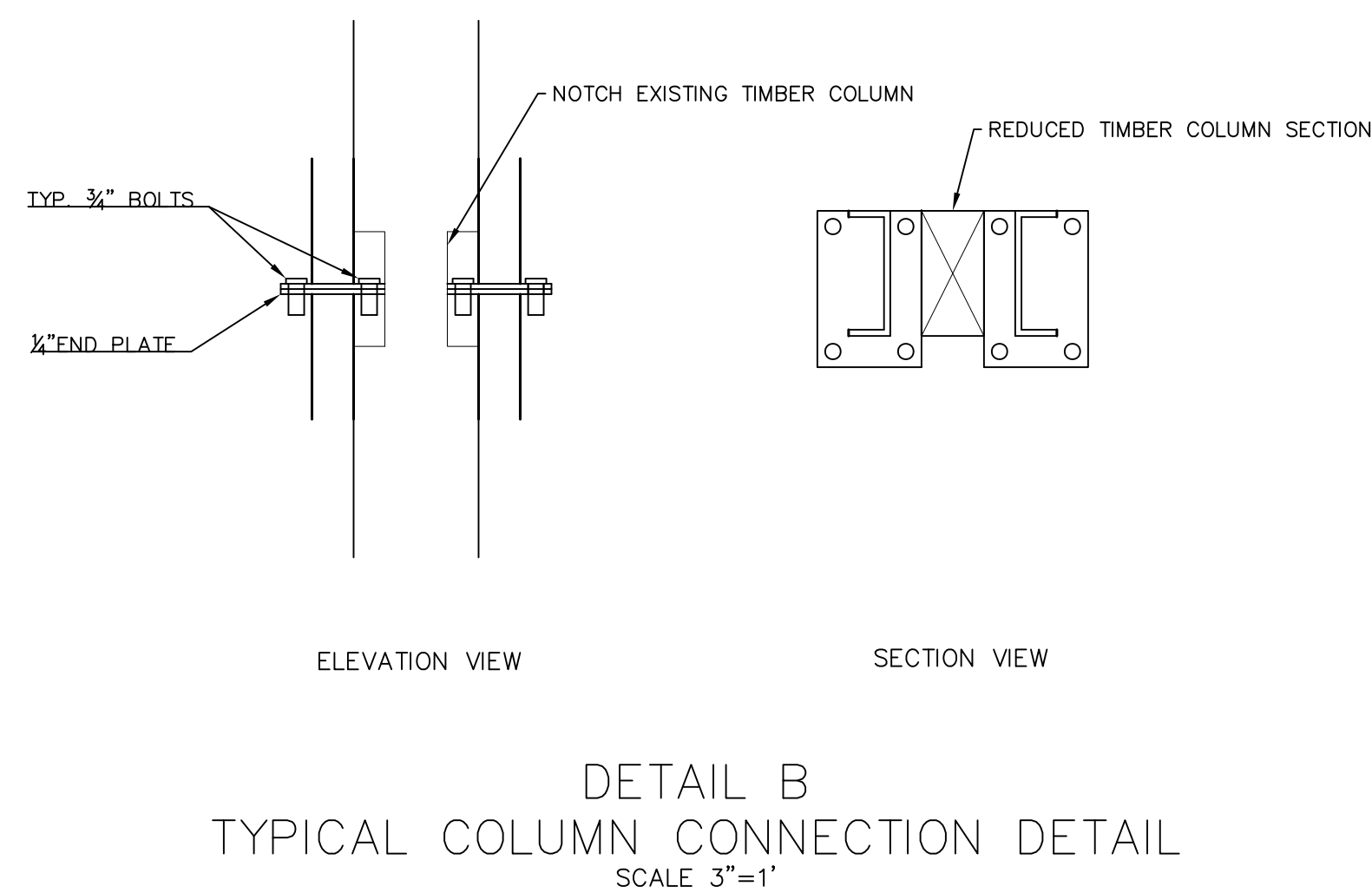
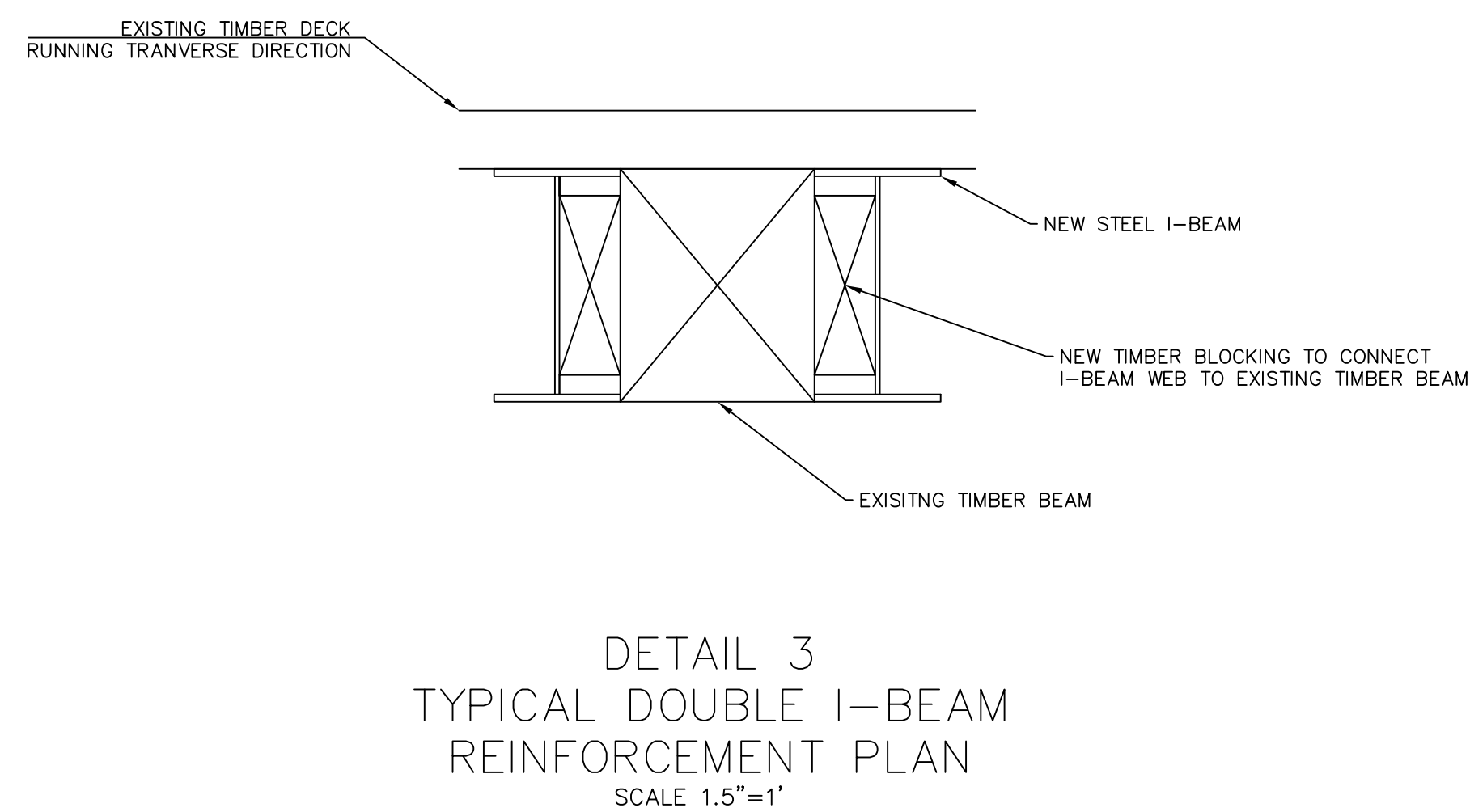
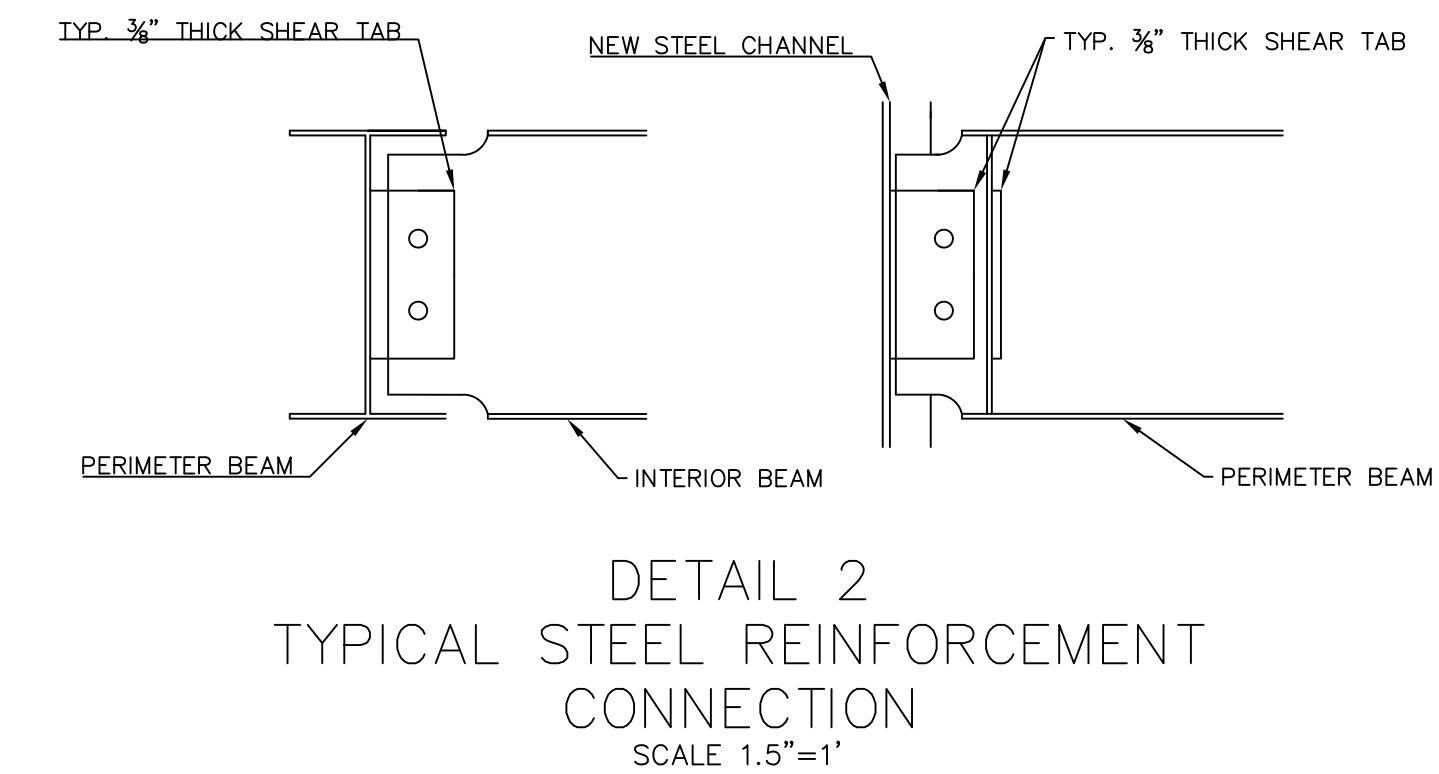
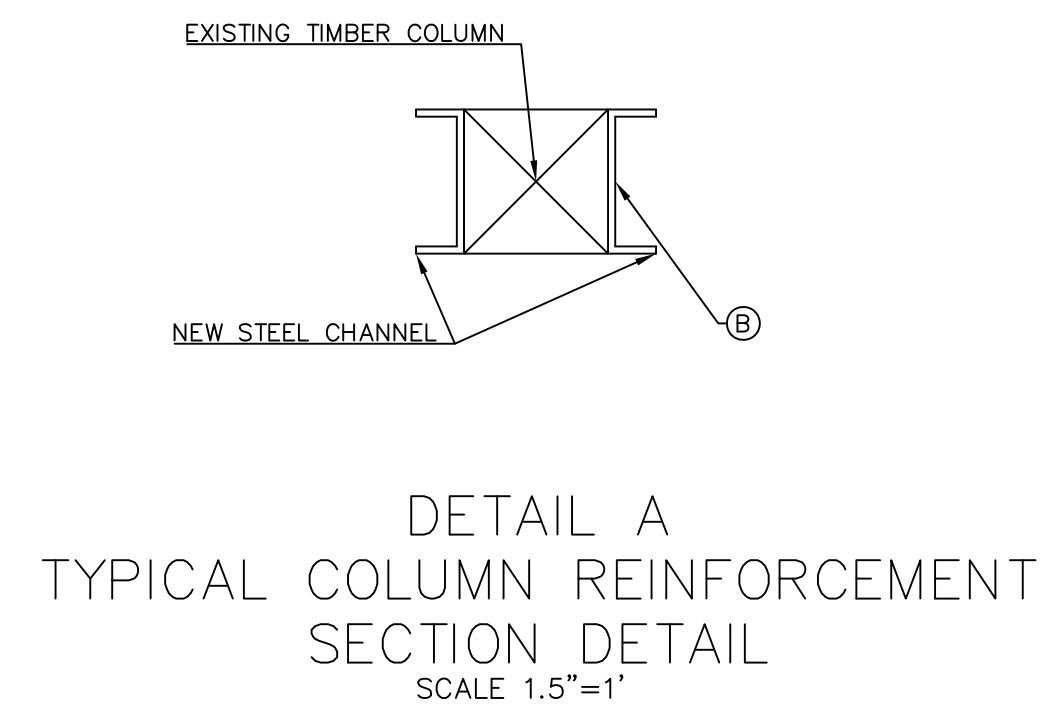
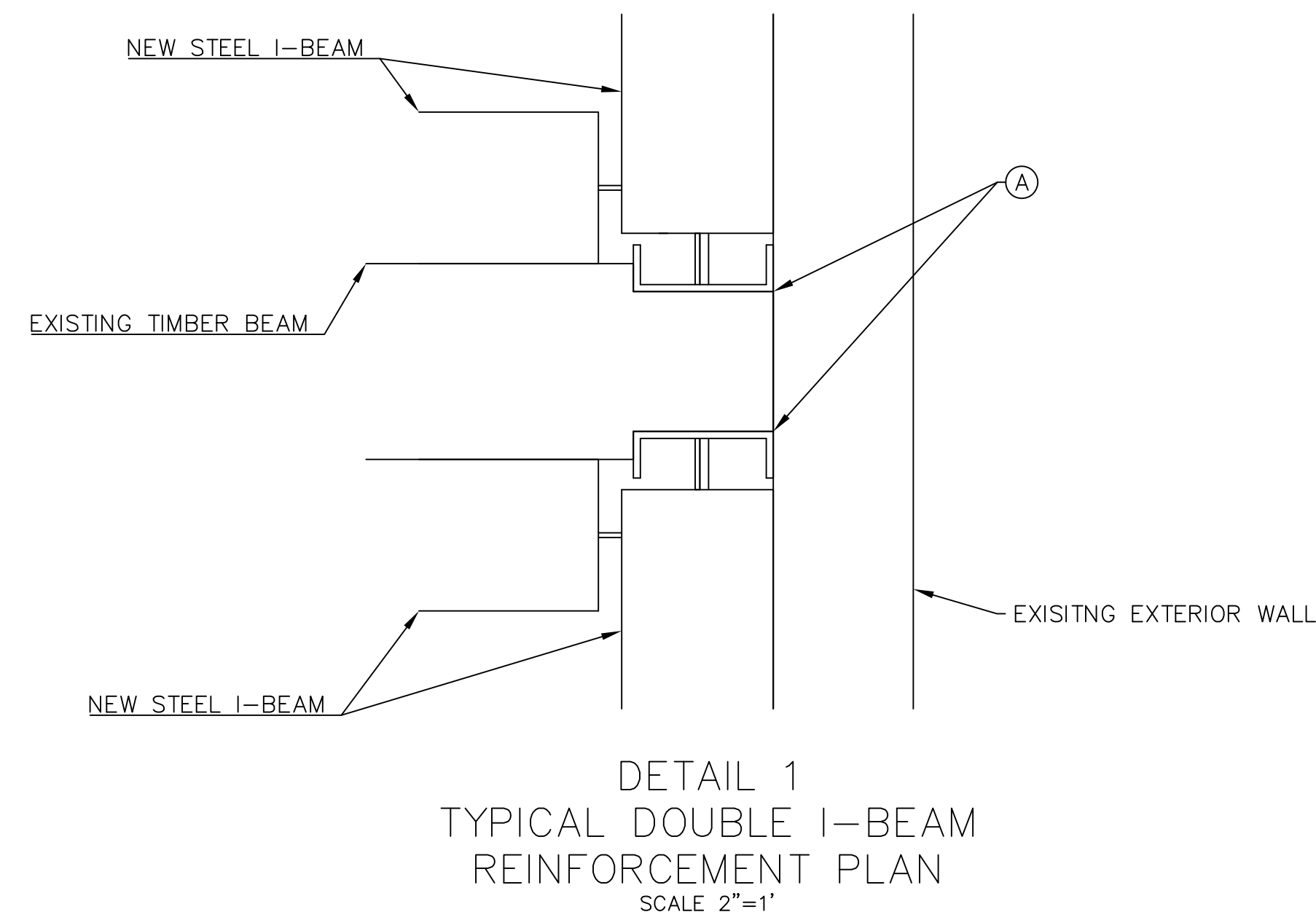
DRAWN BY  
BGW, CSM

SUBMISSION DATE  
5/8/2014

DRAWING NO.

AE-7

SHEET 7 OF 18



- NOTES
- Ⓐ CUT EXISTING WOOD BEAM TO ALLOW NEW STEEL CHANNEL TO REST FLUSH WITH EXISTING WOOD COLUMN
  - Ⓑ 3/8" BOLTS TO BE PLACED AT 8" INTERVALS ALONG LENGTH OF COLUMNS TO CONNECT NEW STEEL CHANNELS
  - Ⓒ FOR ALL STEEL CONNECTIONS, 2 3/8" BOLTS @ 3" SPACING. CLEAR DISTANCES VARY

DATE	DESCRIPTION	NO.
REVISIONS		
SIGNATURE		DATE SIGNED
B. N. BEHR PROFESSIONAL ENGINEER PA Lic. No. PE-0123456		

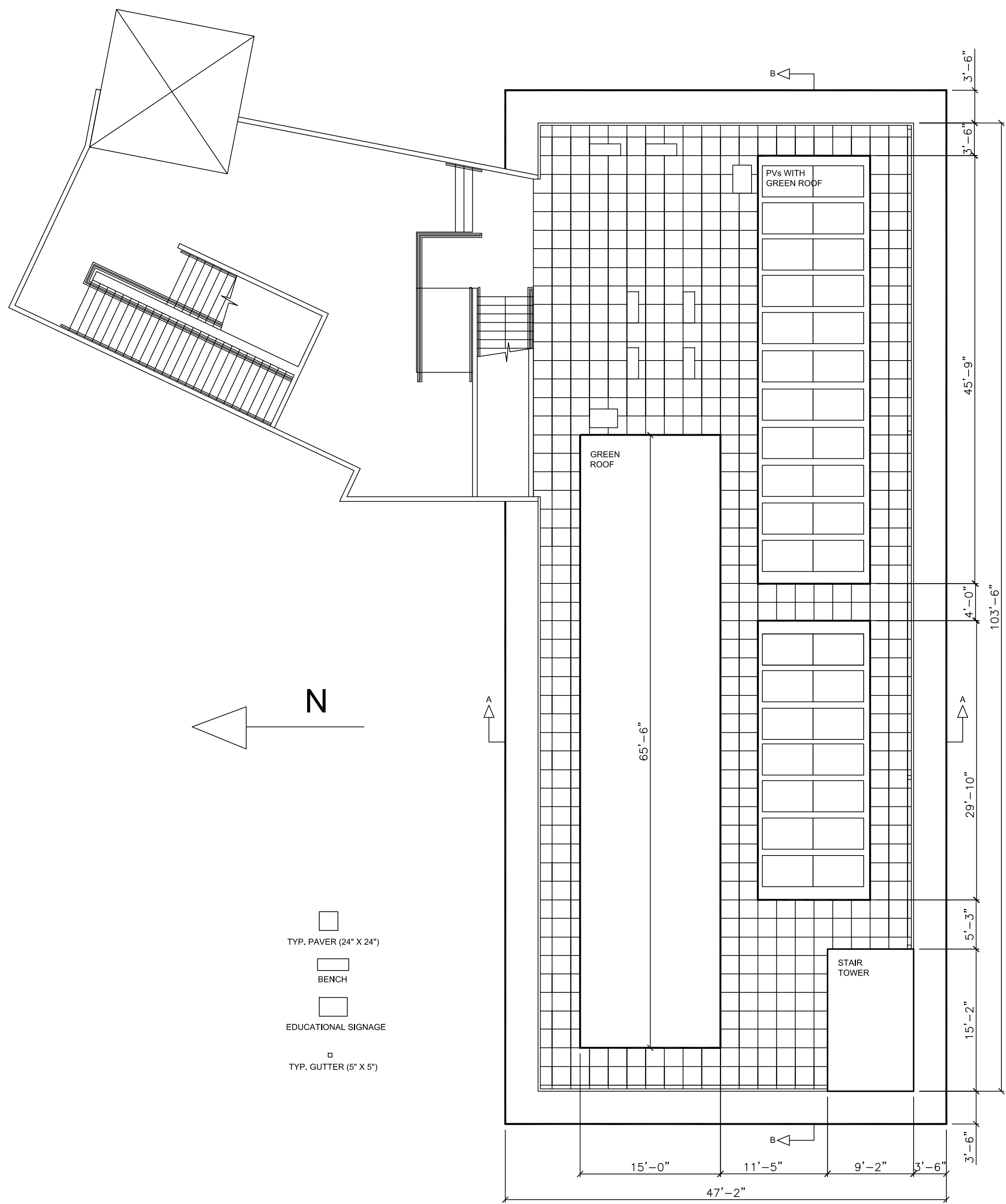


PROJECT  
**LAFAYETTE COLLEGE**  
**CIVIL AND ENVIRONMENTAL  
ENGINEERING RESEARCH  
CENTER (CEERC)**  
CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

DRAWING TITLE  
**LUMBER BUILDING  
TYPICAL  
STRUCTURAL  
SECTIONS/DETAILS**

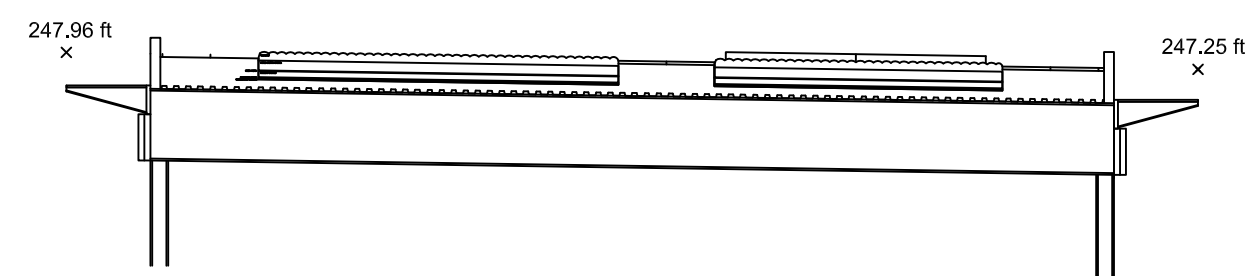
PROJECT NO. CE473-S14	DRAWING NO. <b>AE-8</b>
DATE 5/8 /2014	
SCALE AS NOTED	
DRAWN BY BGW, CSM	
SUBMISSION DATE 5/8/2014	
SHEET 8 OF 18	



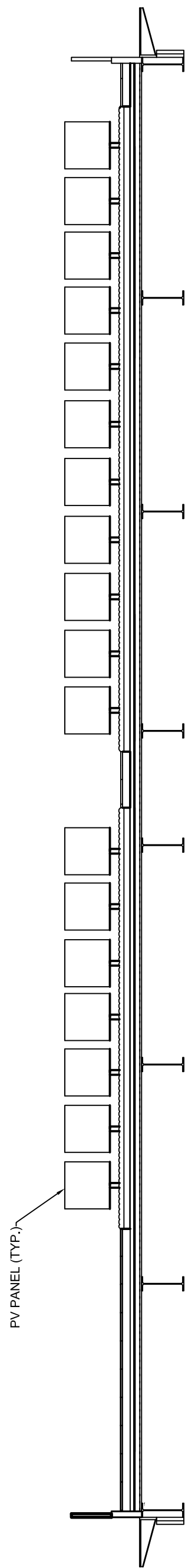


ROOF PLAN VIEW  
SCALE 1/8"=1'-0"

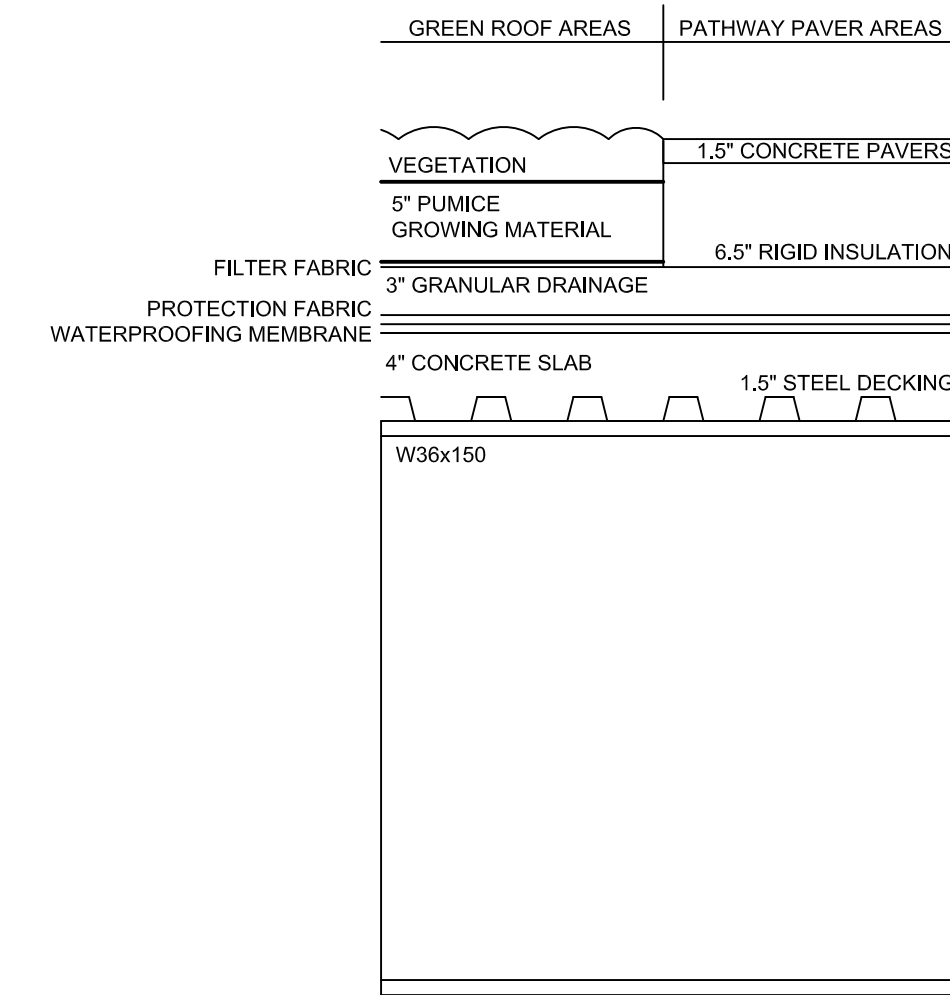
- TYP. PAVER (24" X 24")
- BENCH
- EDUCATIONAL SIGNAGE
- TYP. GUTTER (5" X 5")



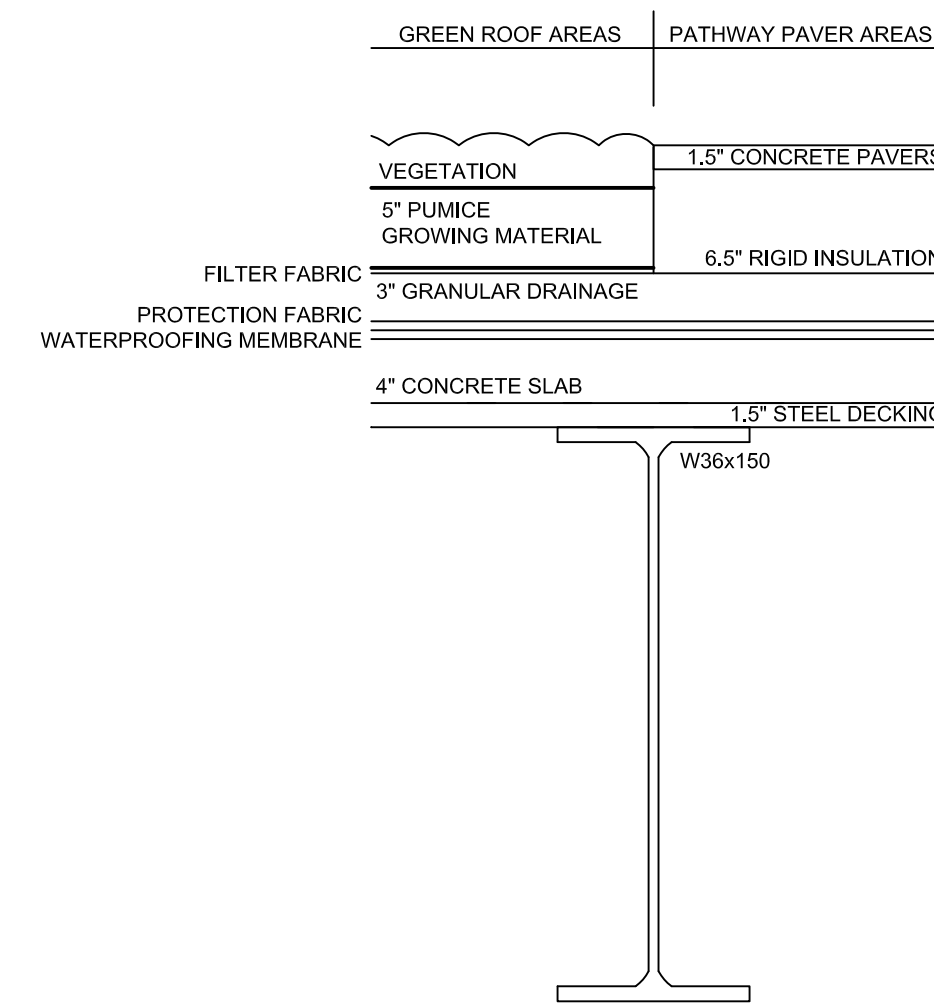
TRANSVERSE ROOF SECTION A-A  
SCALE 1/8"=1'-0"



LONGITUDINAL ROOF SECTION B-B  
SCALE 1/8"=1'-0"



TYP. LONGITUDINAL ROOF SECTION  
SCALE 1"=1'-0"



TYP. TRANSVERSE ROOF SECTION  
SCALE 1"=1'-0"

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SIGNATURE	DATE SIGNED	
B. N. BEHR PROFESSIONAL ENGINEER PA Lic. No. PE-0123456		

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CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

DRAWING TITLE  
**HUMMEL BUILDING  
GREEN ROOF PLAN  
& DETAILS**

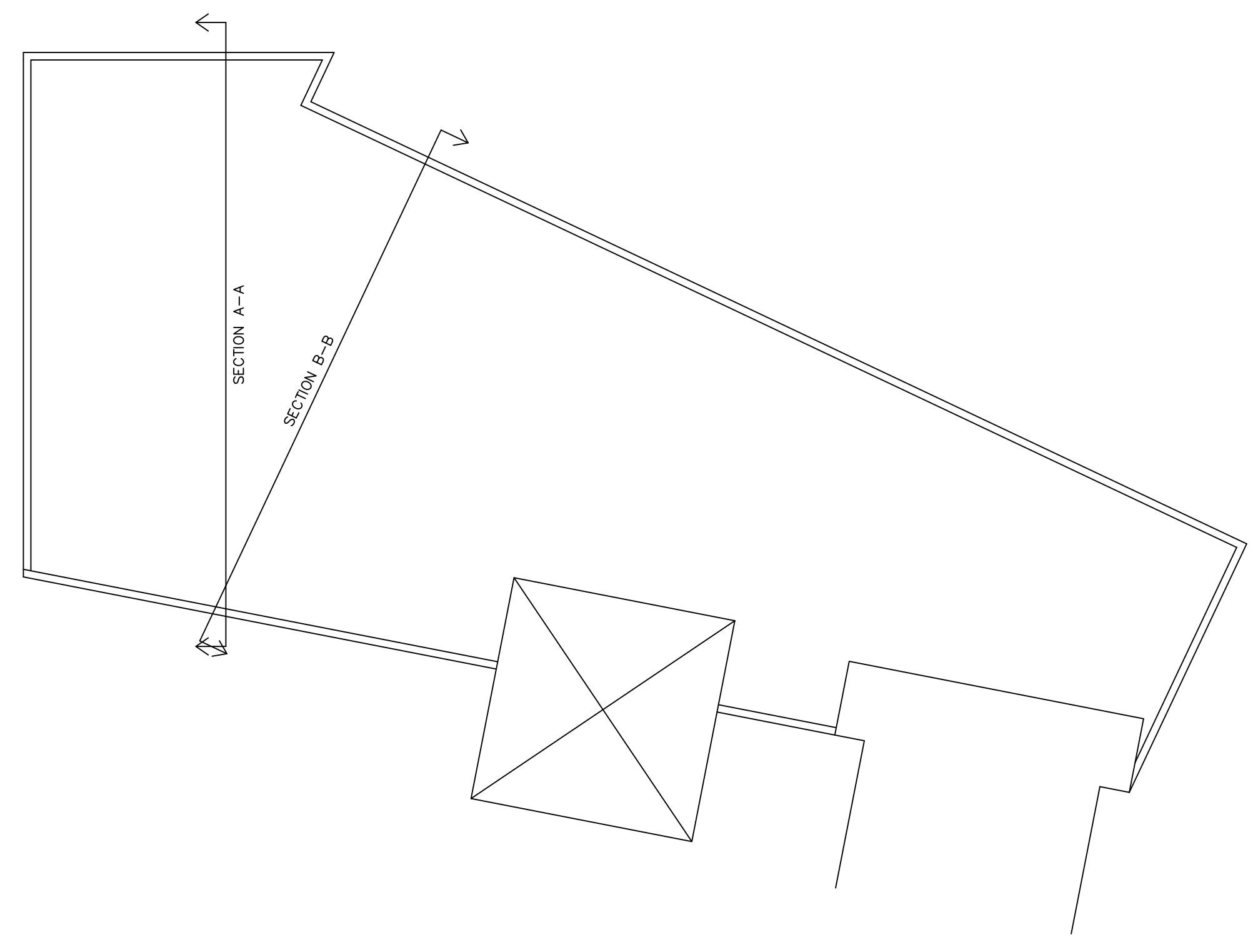
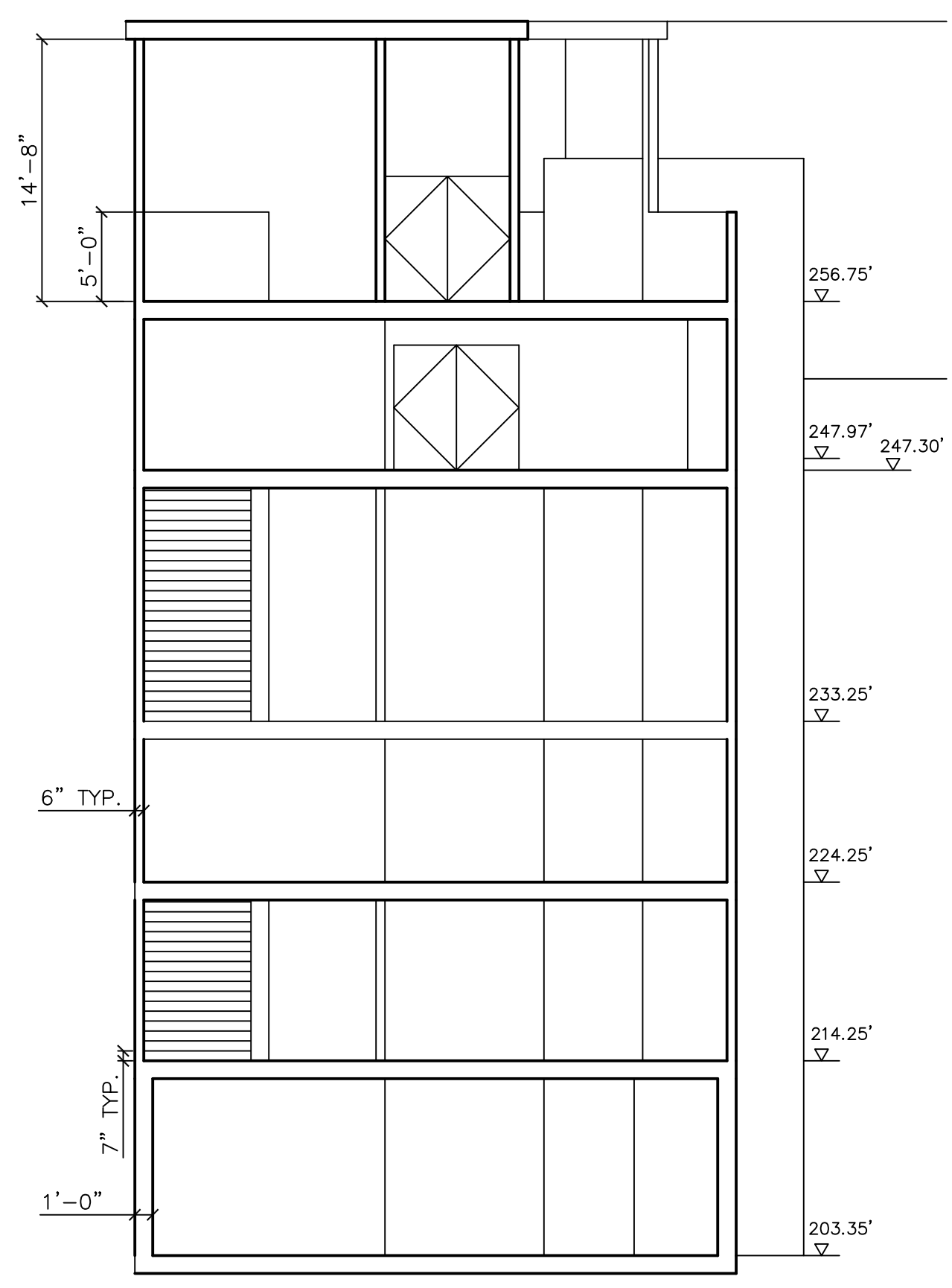
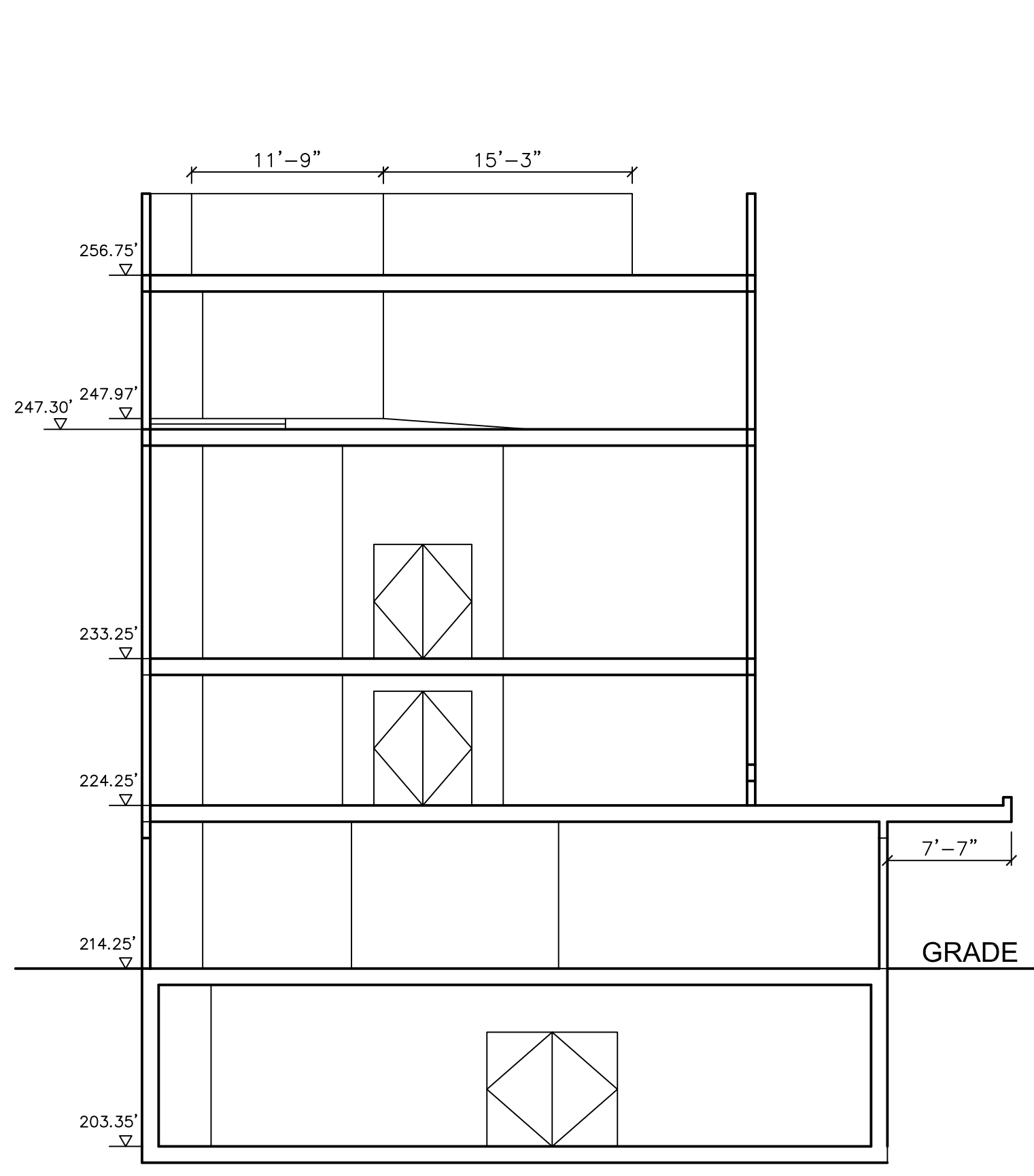
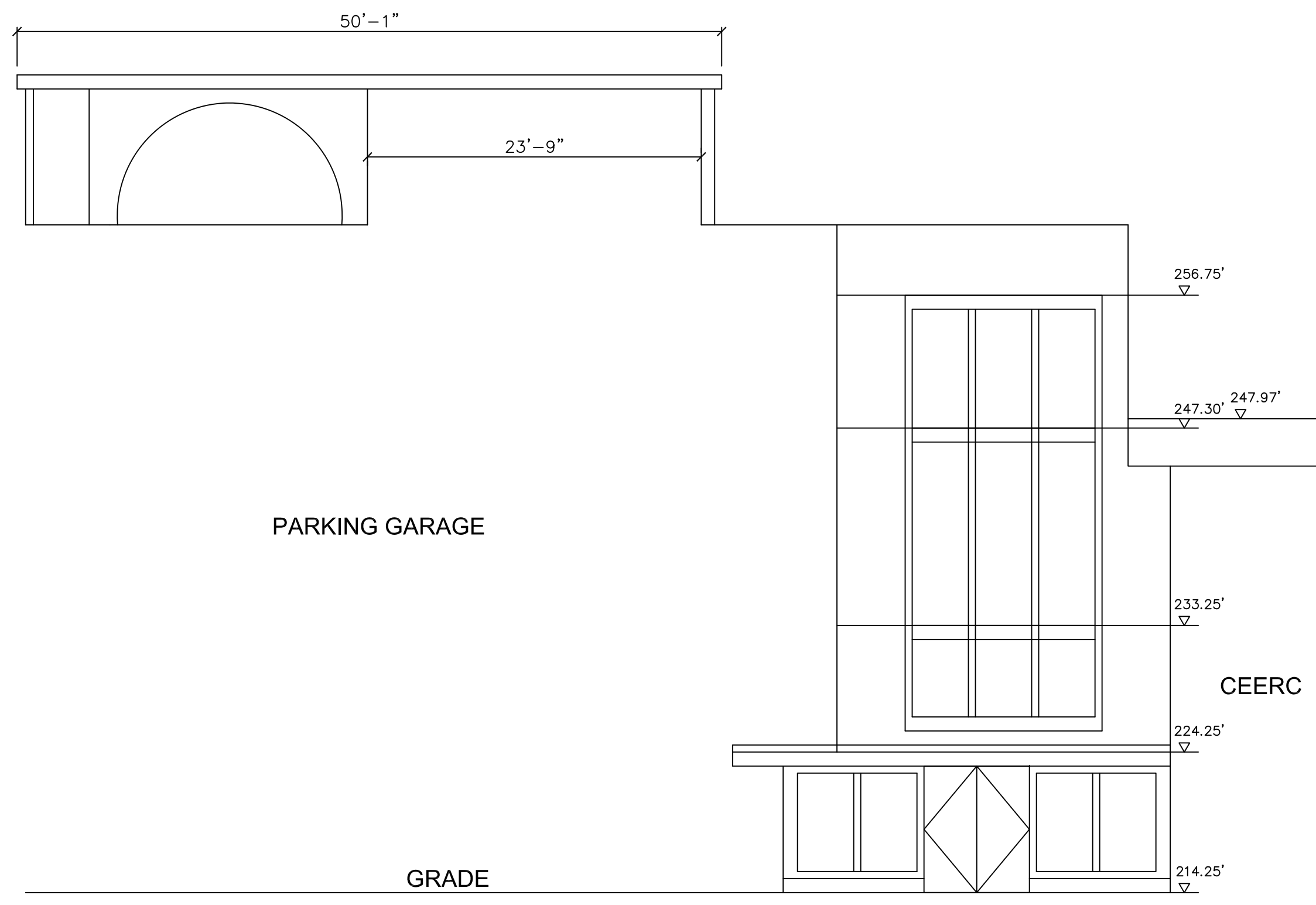
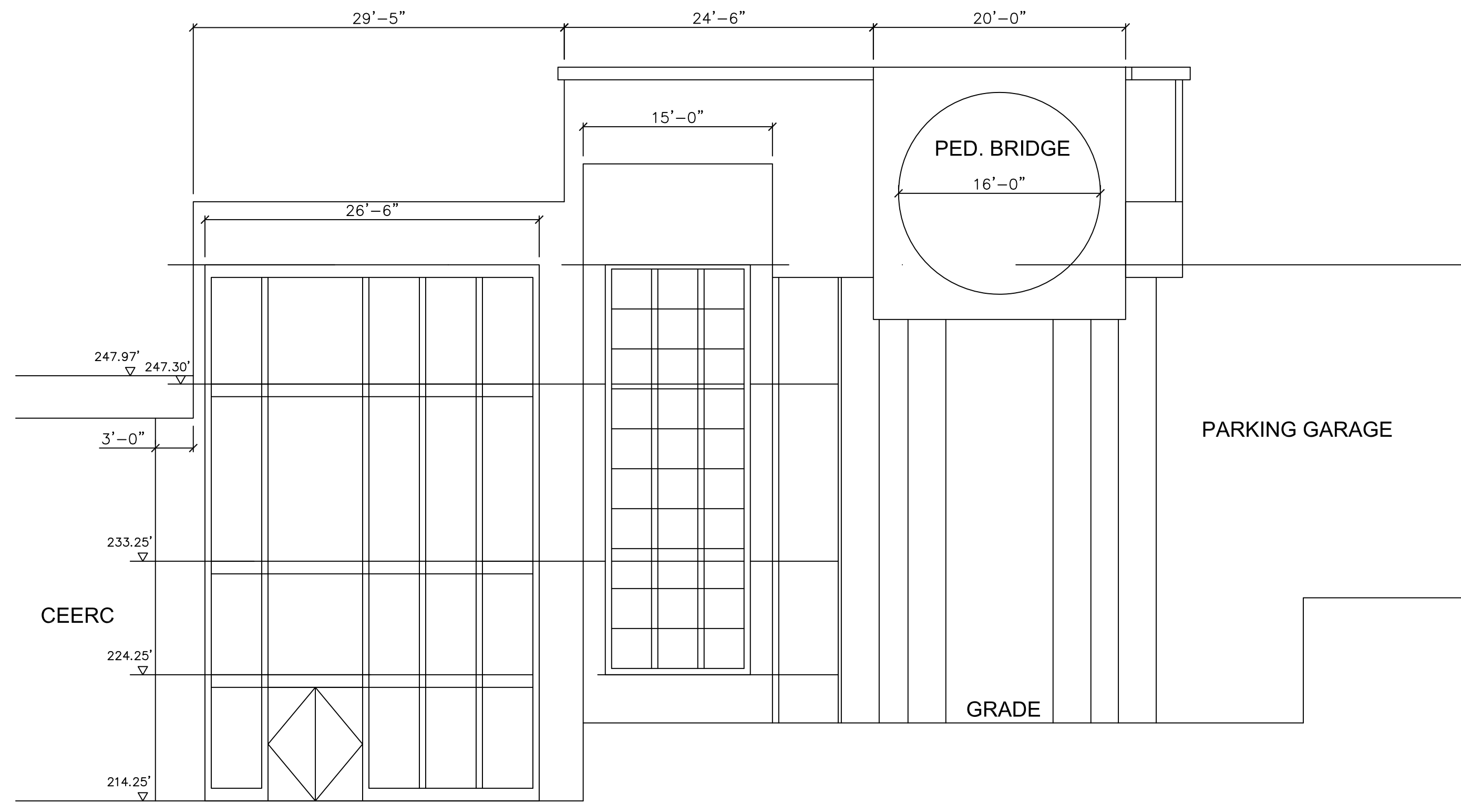
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DATE 5/8/2014	
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DRAWN BY RMR	
SUBMISSION DATE 5/8/2014	SHEET 9 OF 18

DATE	DESCRIPTION	NO.
REVISIONS		
SIGNATURE		DATE SIGNED
B. N. BEHR PROFESSIONAL ENGINEER PA Lic. No. PE-0123456		

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ENGINEERING COMPANY

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PROJECT	
LAFAYETTE COLLEGE CIVIL AND ENVIRONMENTAL ENGINEERING RESEARCH CENTER (CEERC)	
CITY OF EASTON NORTHAMPTON COUNTY, PENNSYLVANIA	
DRAWING TITLE	
CONNECTOR BUILDING / PROPOSED ELEVATIONS & SECTIONS	
PROJECT NO.	DRAWING NO.
CE473-S14	<b>AE-10</b>
DATE	
5/8/2014	
SCALE	
1/8" = 1' 0"	
DRAWN BY	
SFB	
SUBMISSION DATE	
5/8/2014	SHEET 10 OF 18



SECTION A-A

SECTION B-B

SECTION MAP

DATE	DESCRIPTION	NO.
------	-------------	-----

REVISIONS

SIGNATURE DATE SIGNED

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ENGINEERING RESEARCH  
CENTER (CEERC)**

CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

DRAWING TITLE

**CONNECTOR BUILDING  
/ PROPOSED PLANS**

PROJECT NO.  
CE473-S14

DATE  
5/8/2014

SCALE  
1/8" = 1' 0"

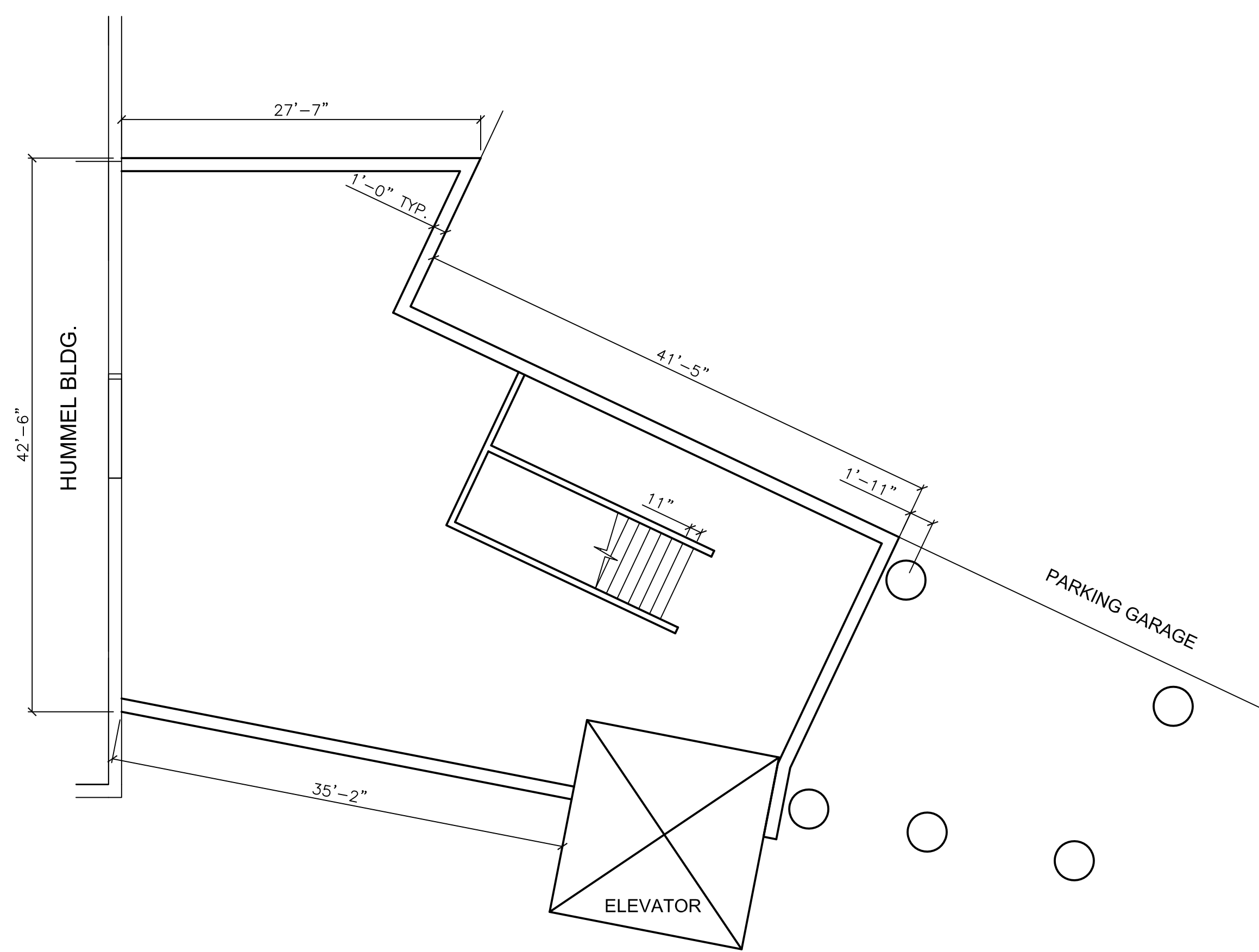
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SFB

SUBMISSION DATE  
5/8/2014

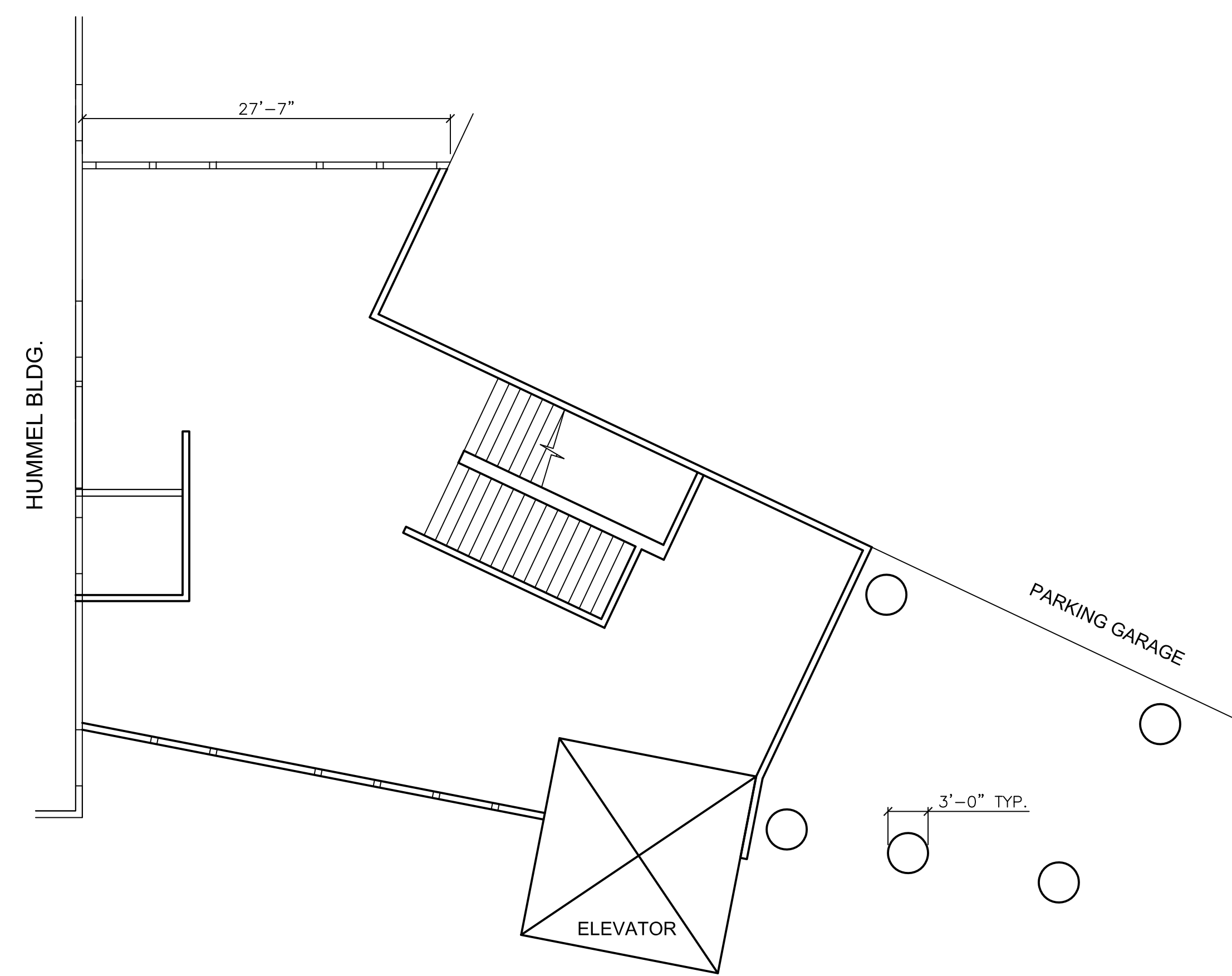
DRAWING NO.

**AE-11**

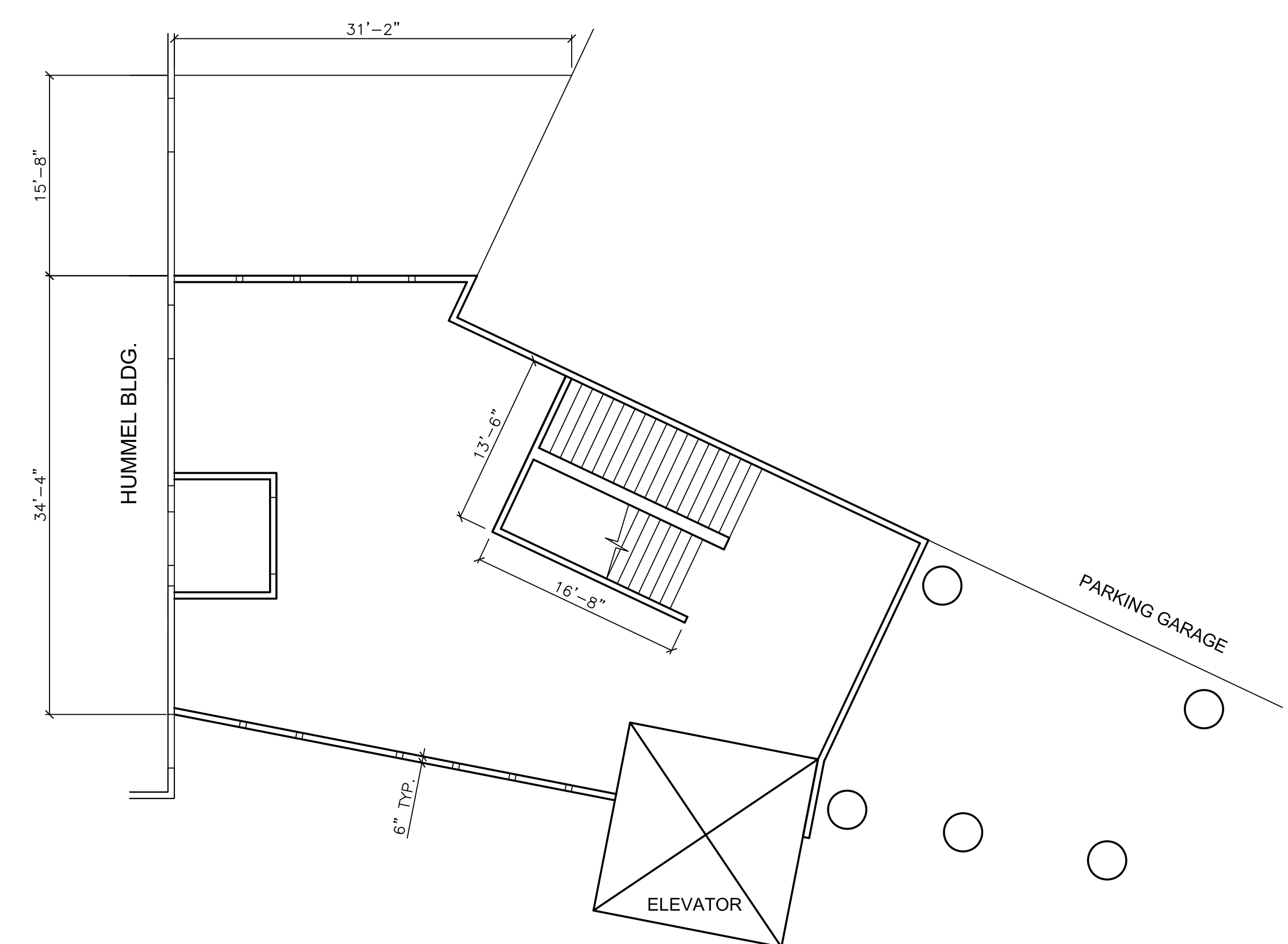
SHEET 11 OF 18



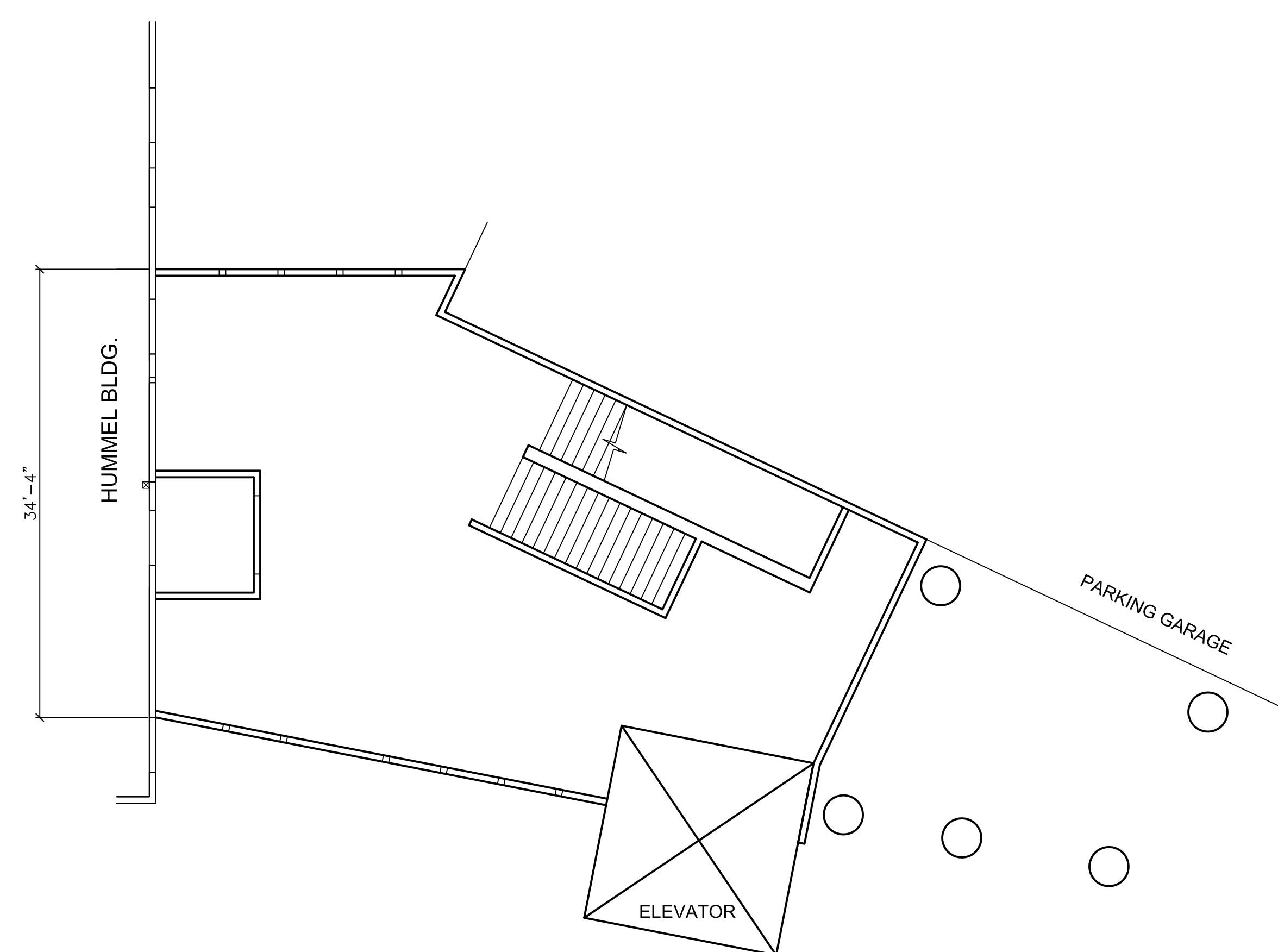
**BASEMENT**



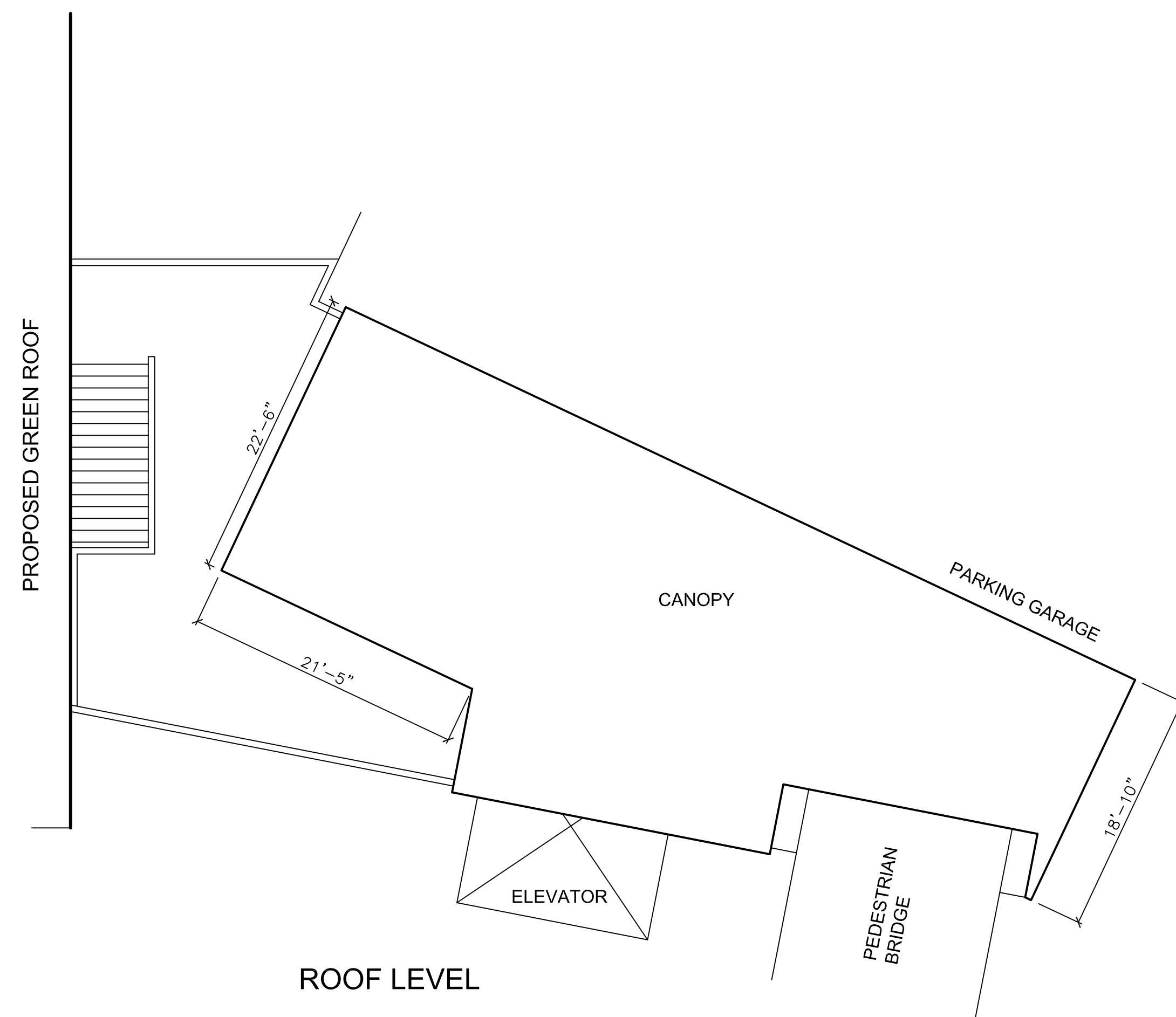
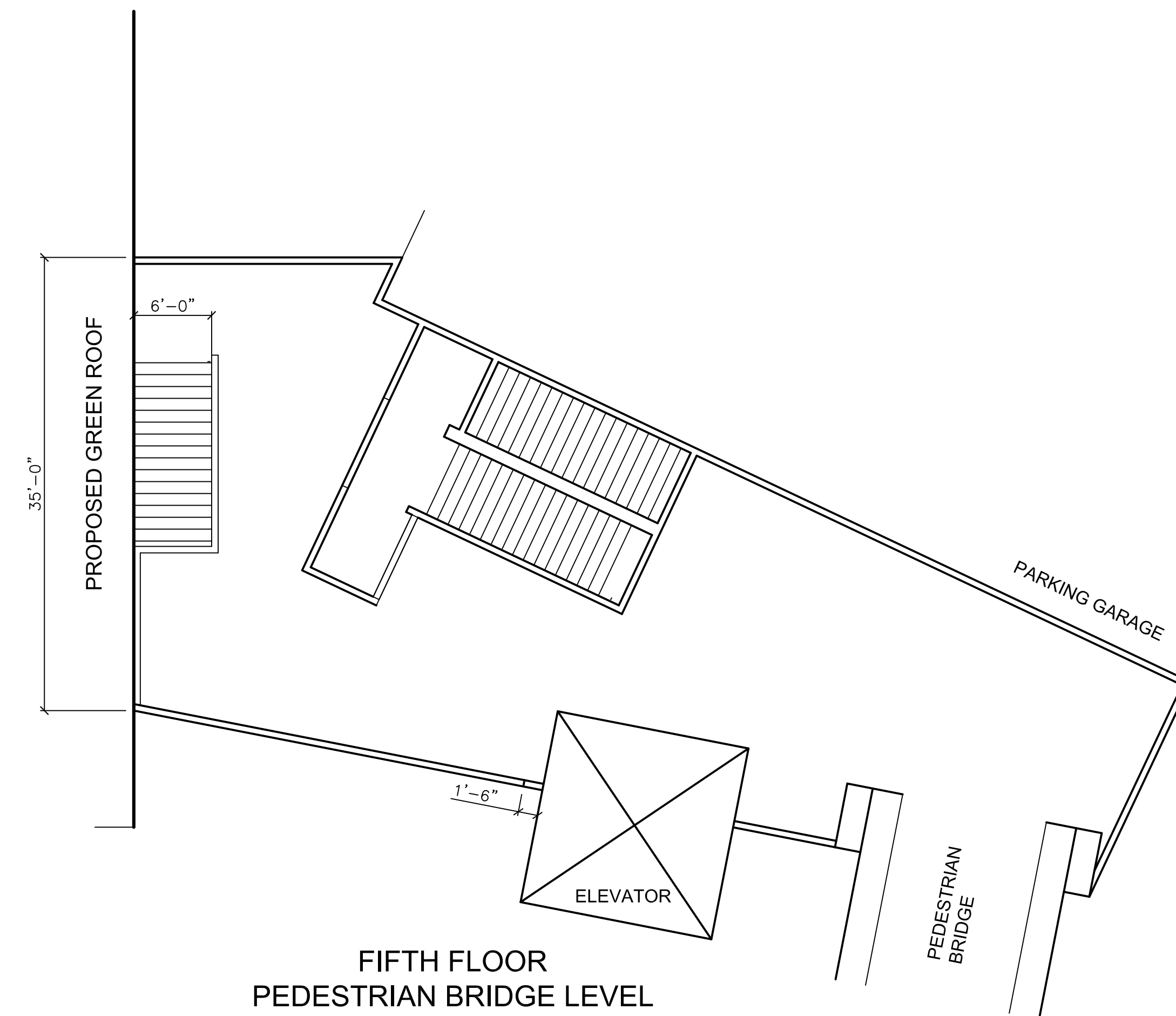
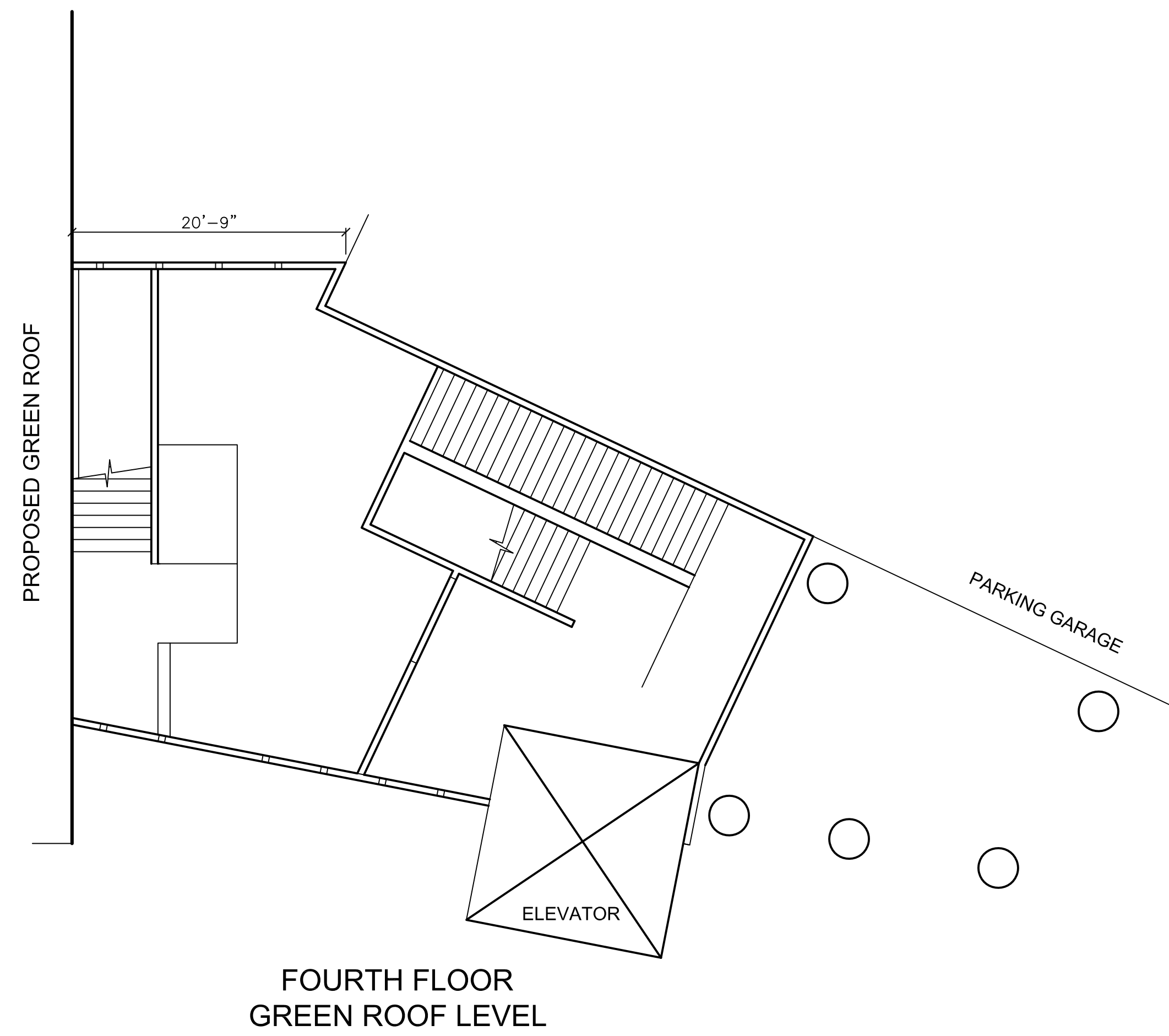
**GROUND FLOOR**



**SECOND FLOOR**



**THIRD FLOOR**



DATE	DESCRIPTION	NO.
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REVISIONS

SIGNATURE	DATE SIGNED
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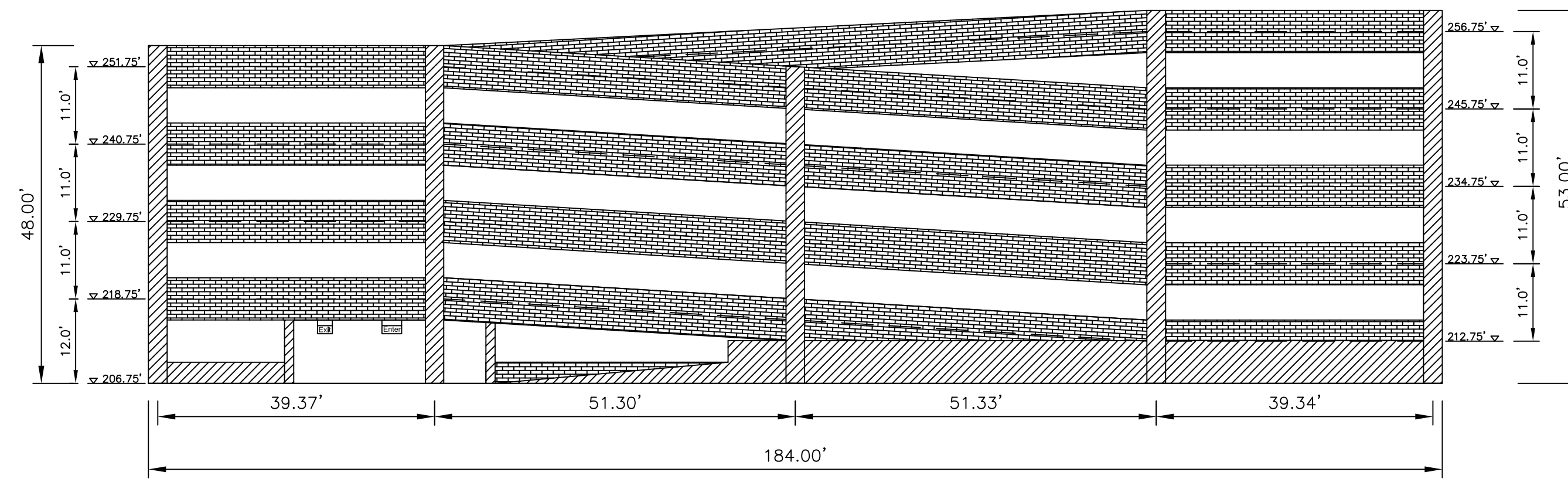


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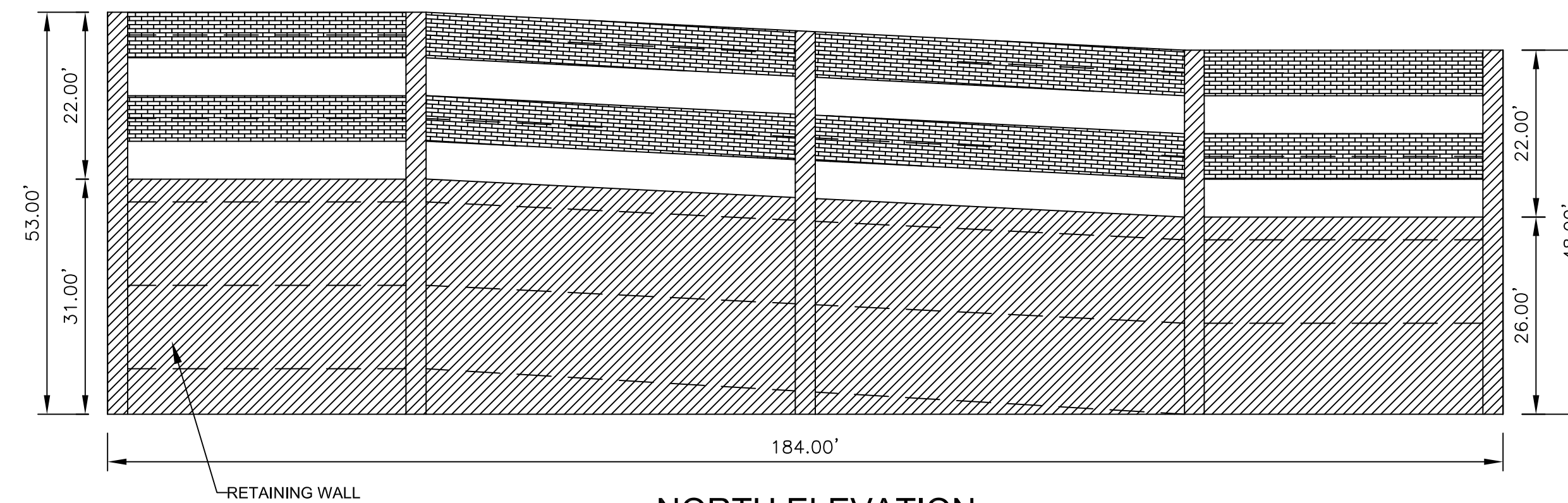
PROJECT  
**LAFAYETTE COLLEGE**  
CIVIL AND ENVIRONMENTAL  
ENGINEERING RESEARCH  
CENTER (CEERC)  
CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

DRAWING TITLE  
**CONNECTOR BUILDING  
/ PROPOSED PLANS**

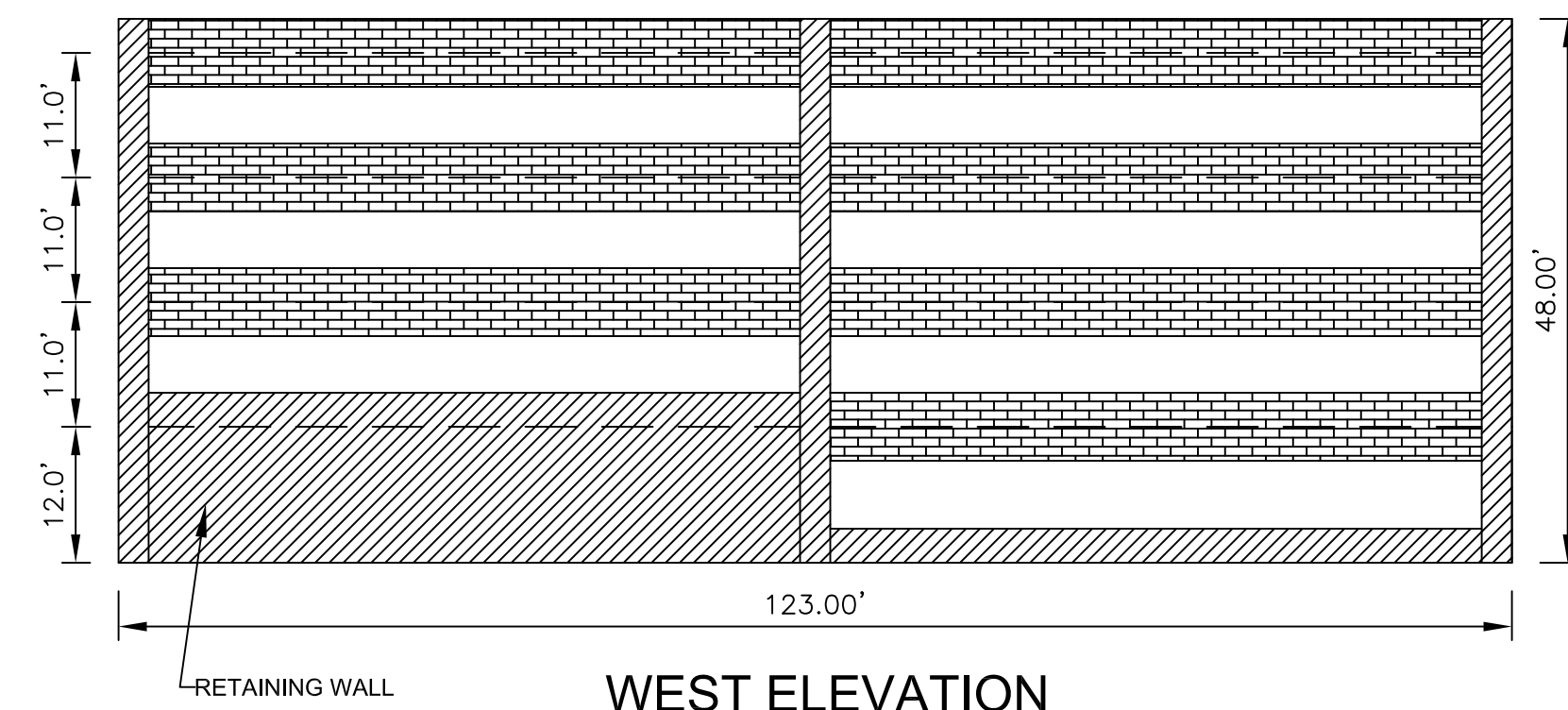
PROJECT NO. CE473-S14	DRAWING NO. <b>AE-12</b>
DATE 5/8/2014	
SCALE 1/8" = 1' 0"	
DRAWN BY SFB	
SUBMISSION DATE 5/8/2014	SHEET 12 OF 18



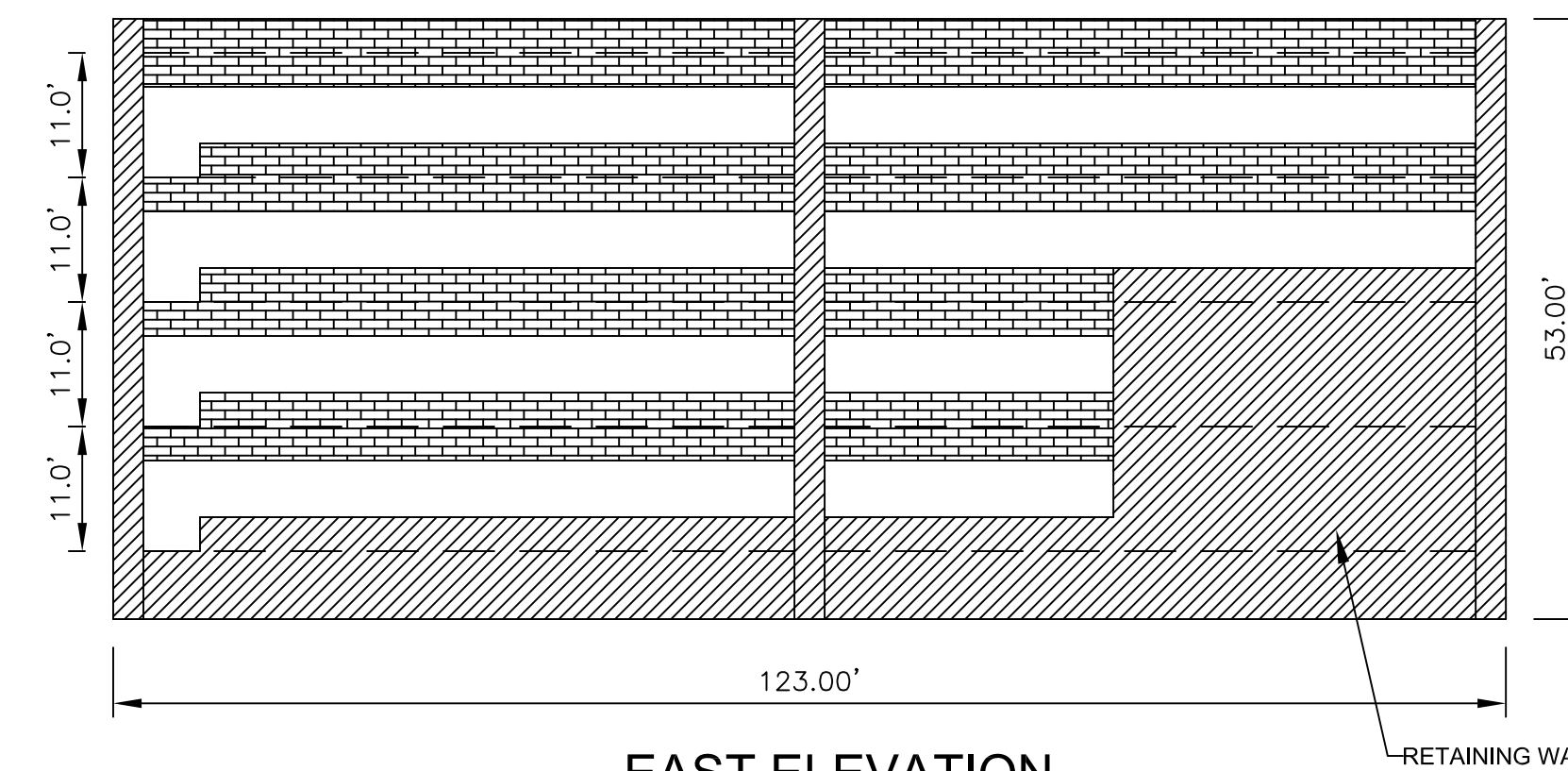
SOUTH ELEVATION



NORTH ELEVATION



WEST ELEVATION



EAST ELEVATION

DATE	DESCRIPTION	NO.
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REVISIONS

SIGNATURE DATE SIGNED

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PROFESSIONAL ENGINEER  
PA Lic. No. PE-0123456

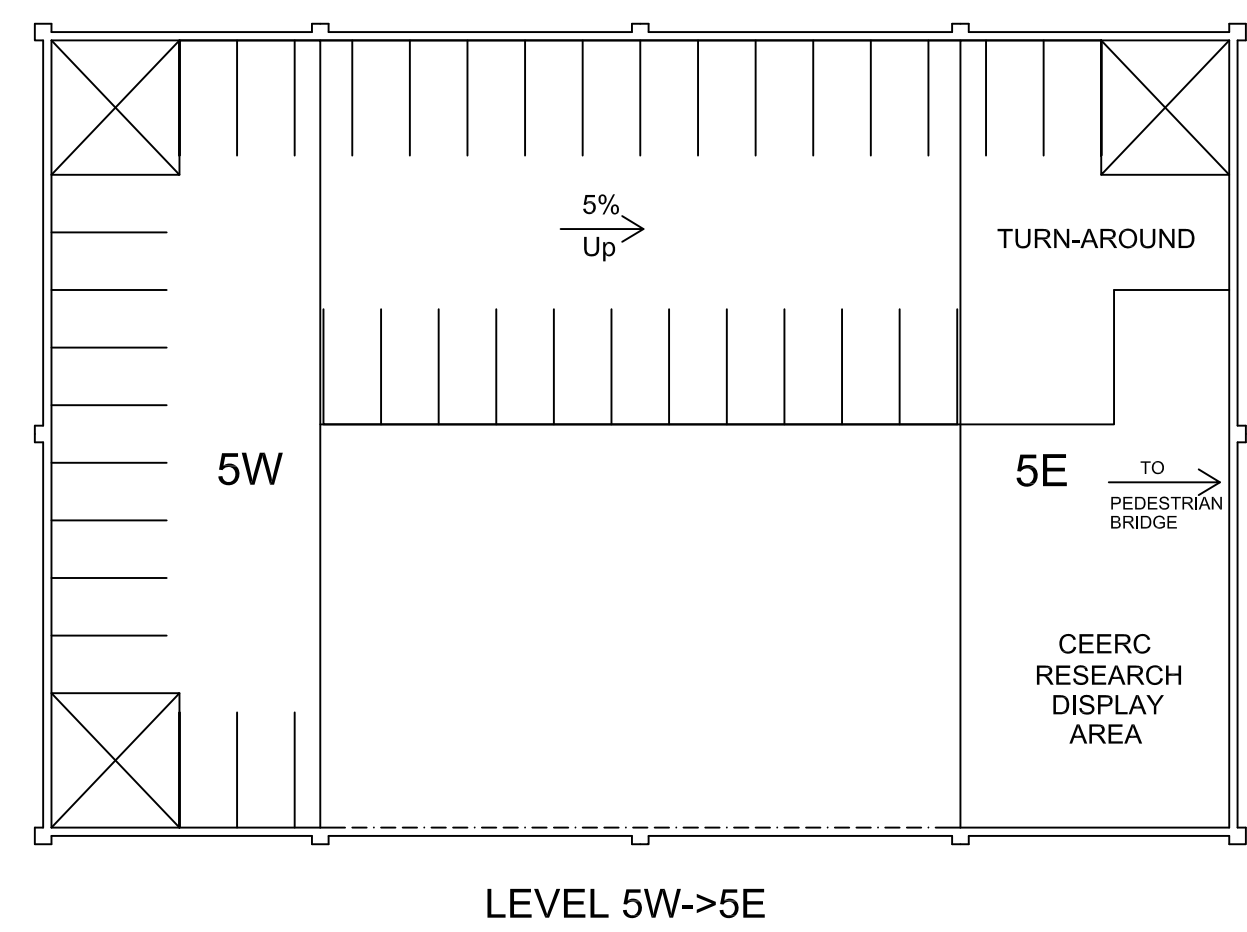
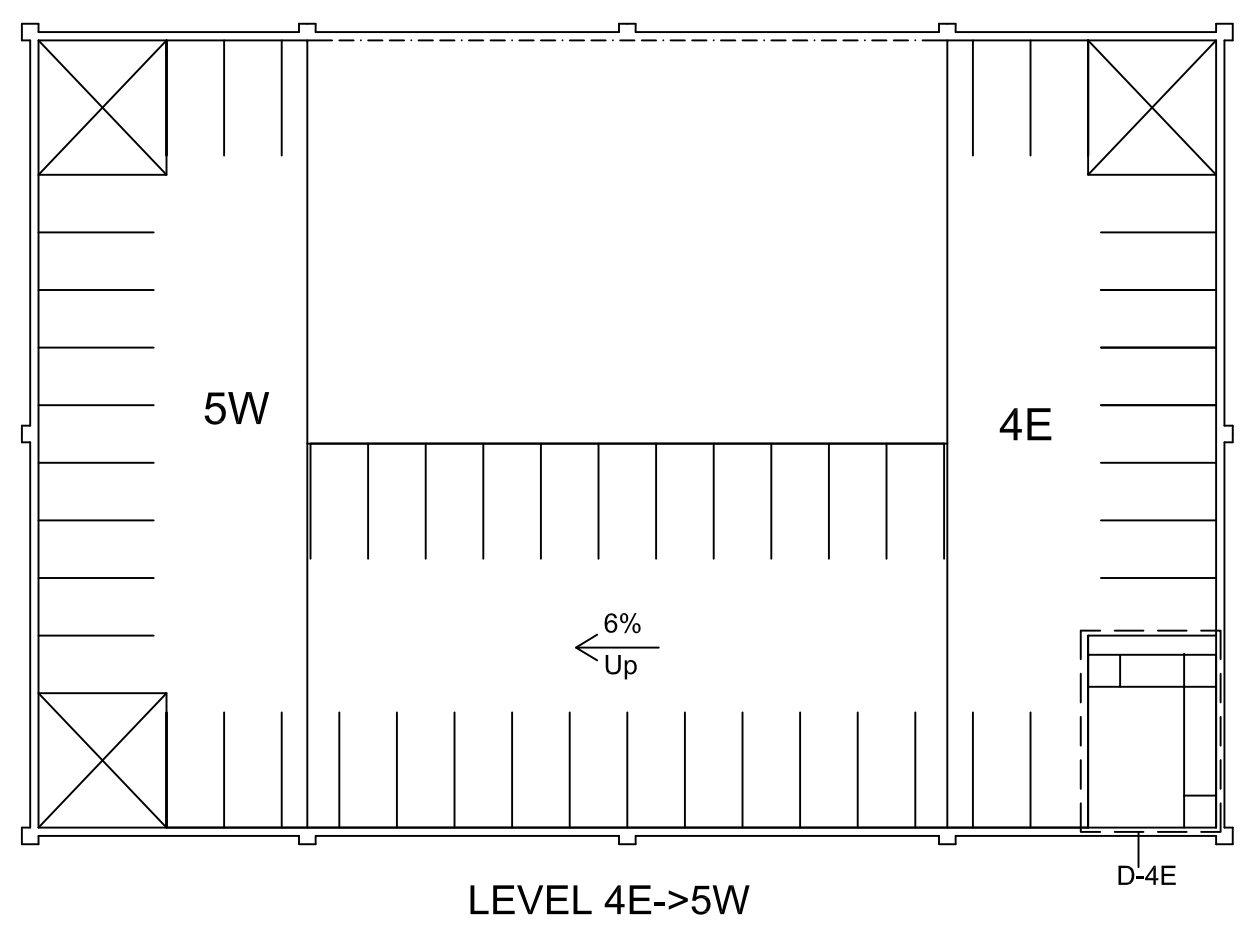
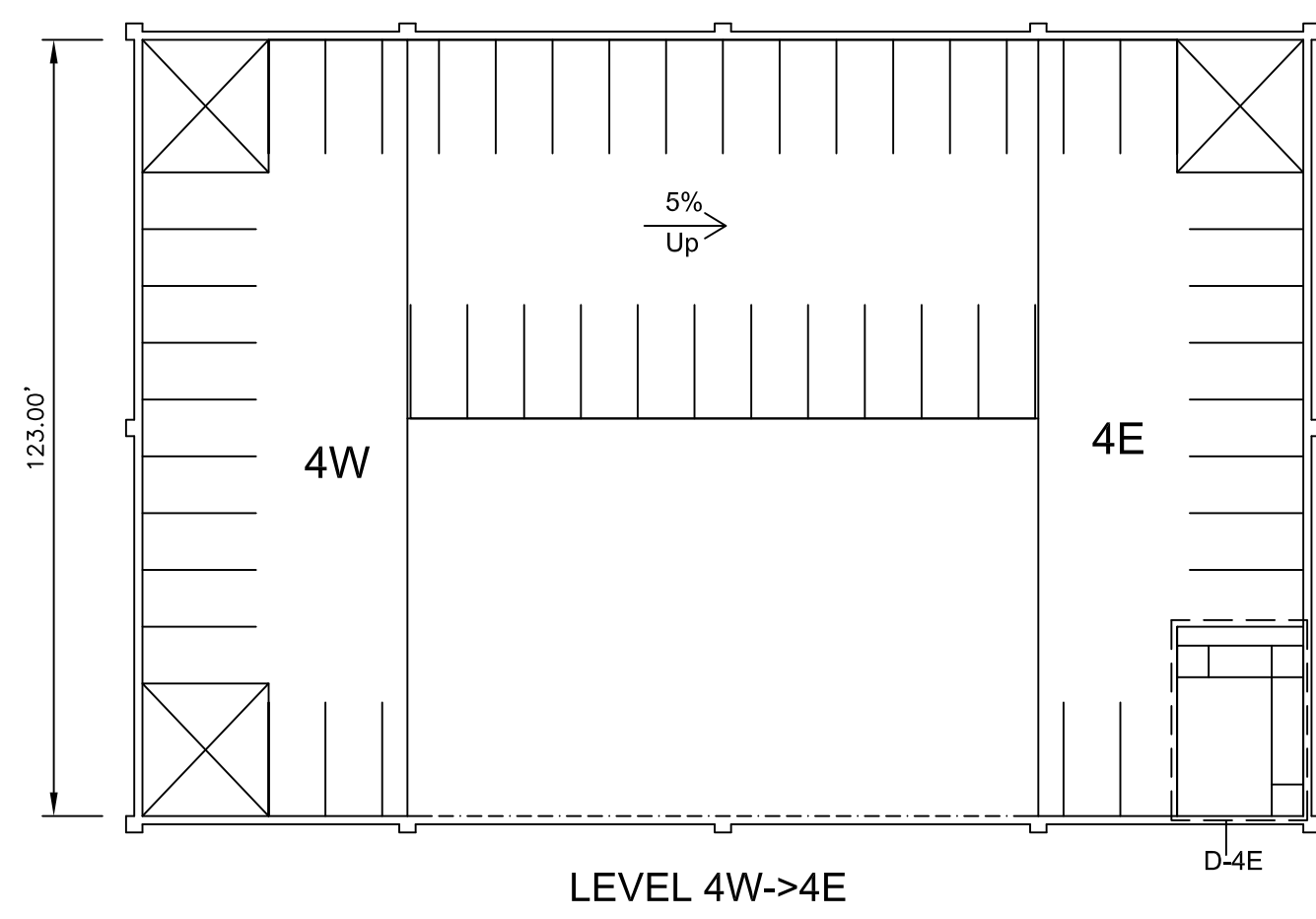
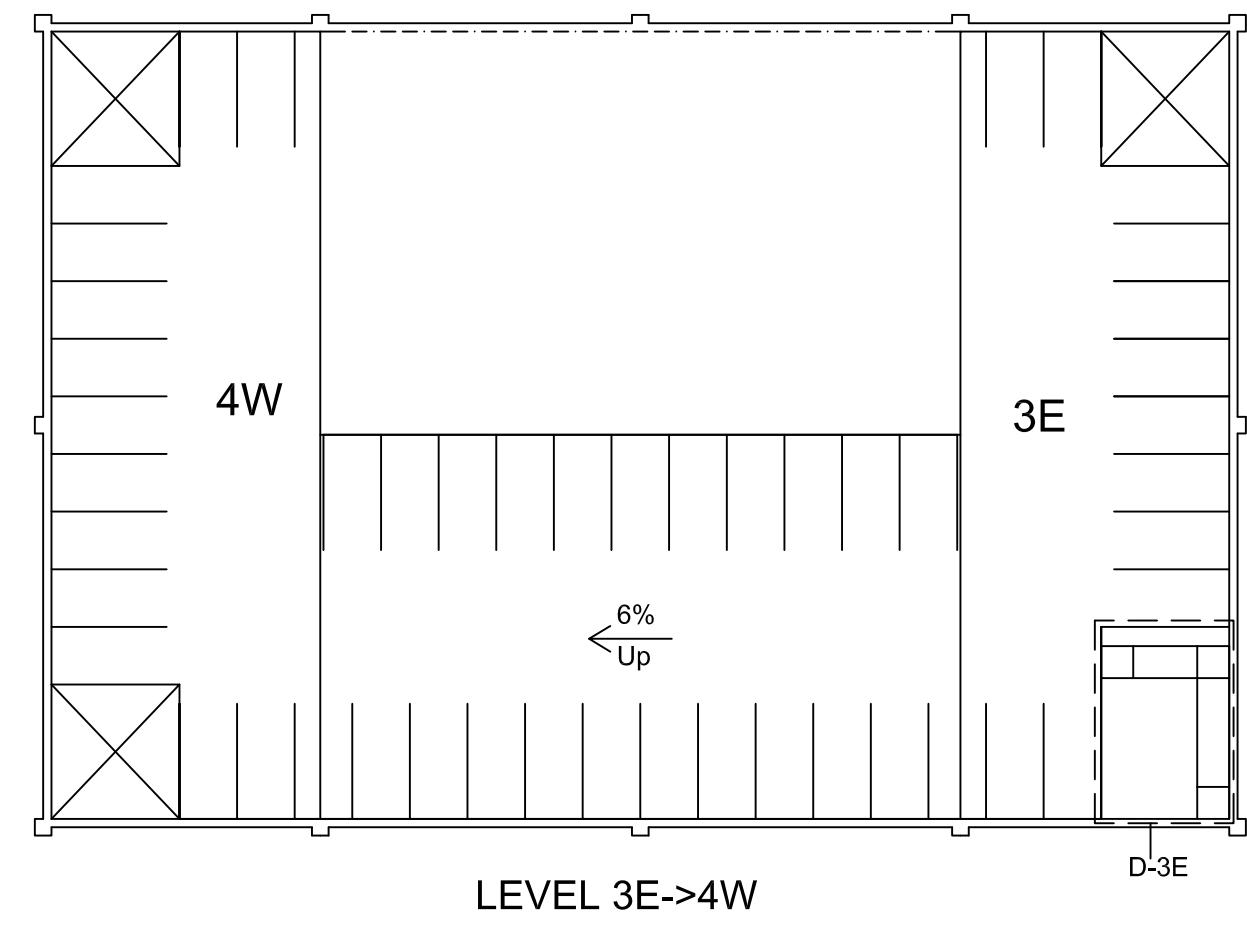
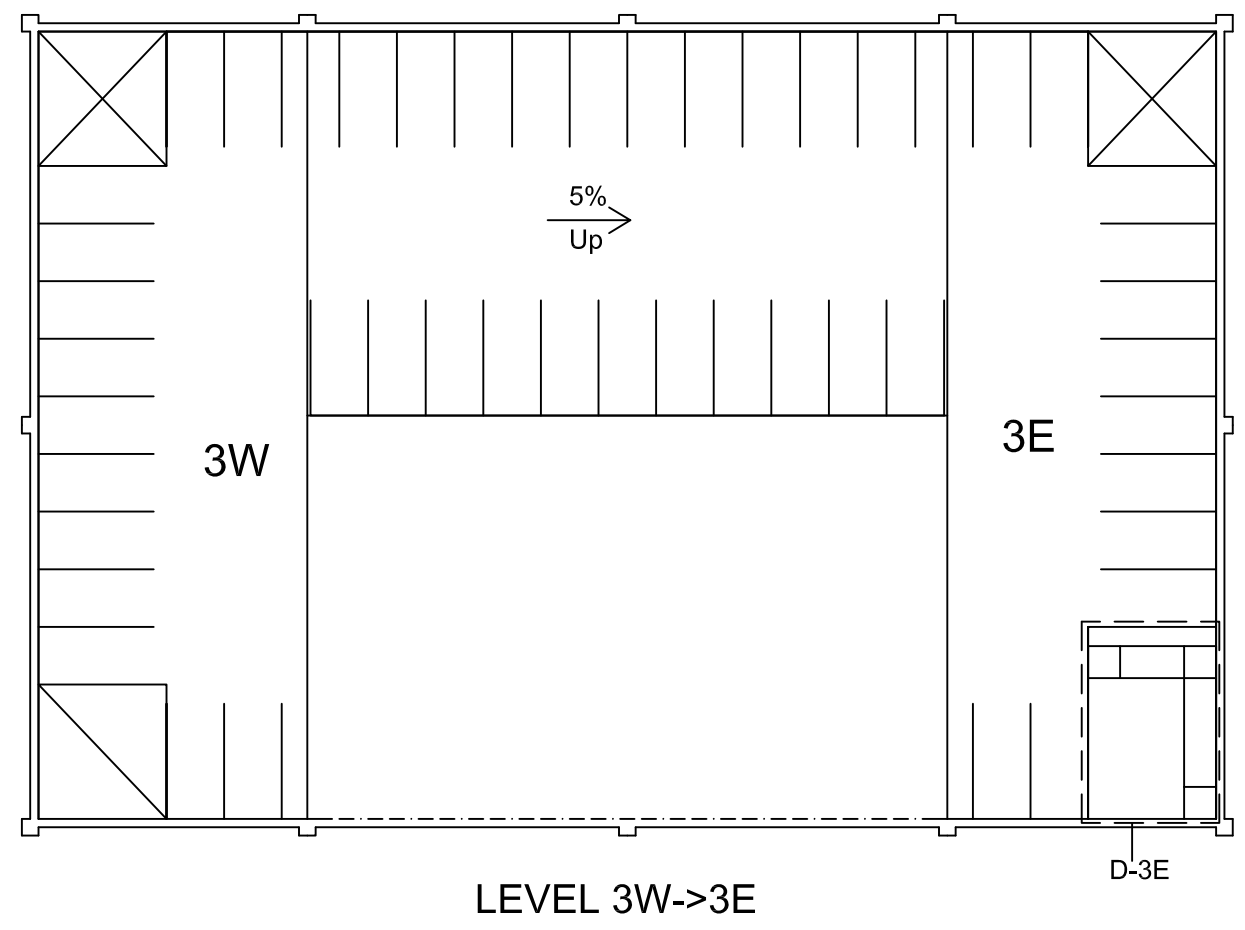
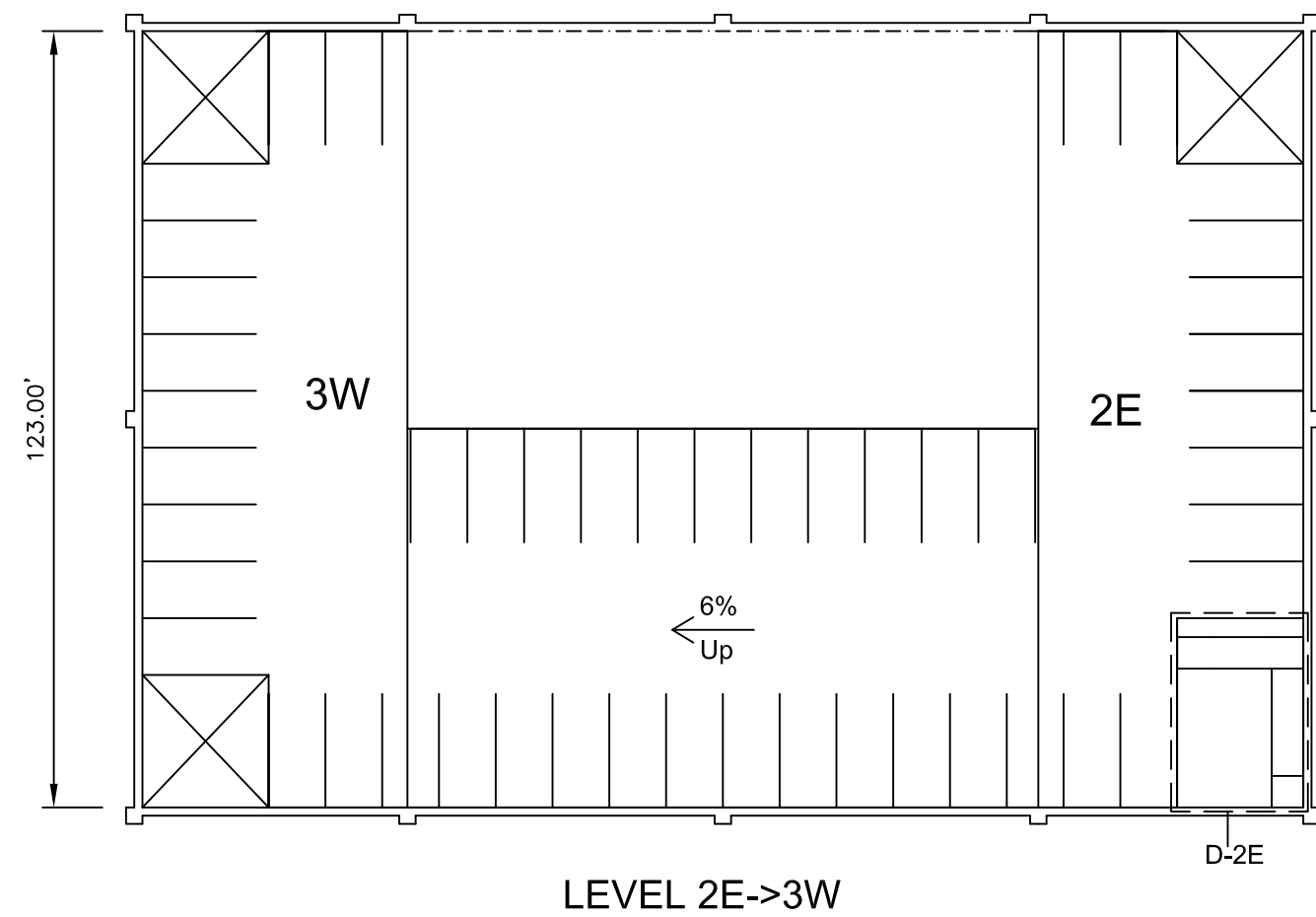
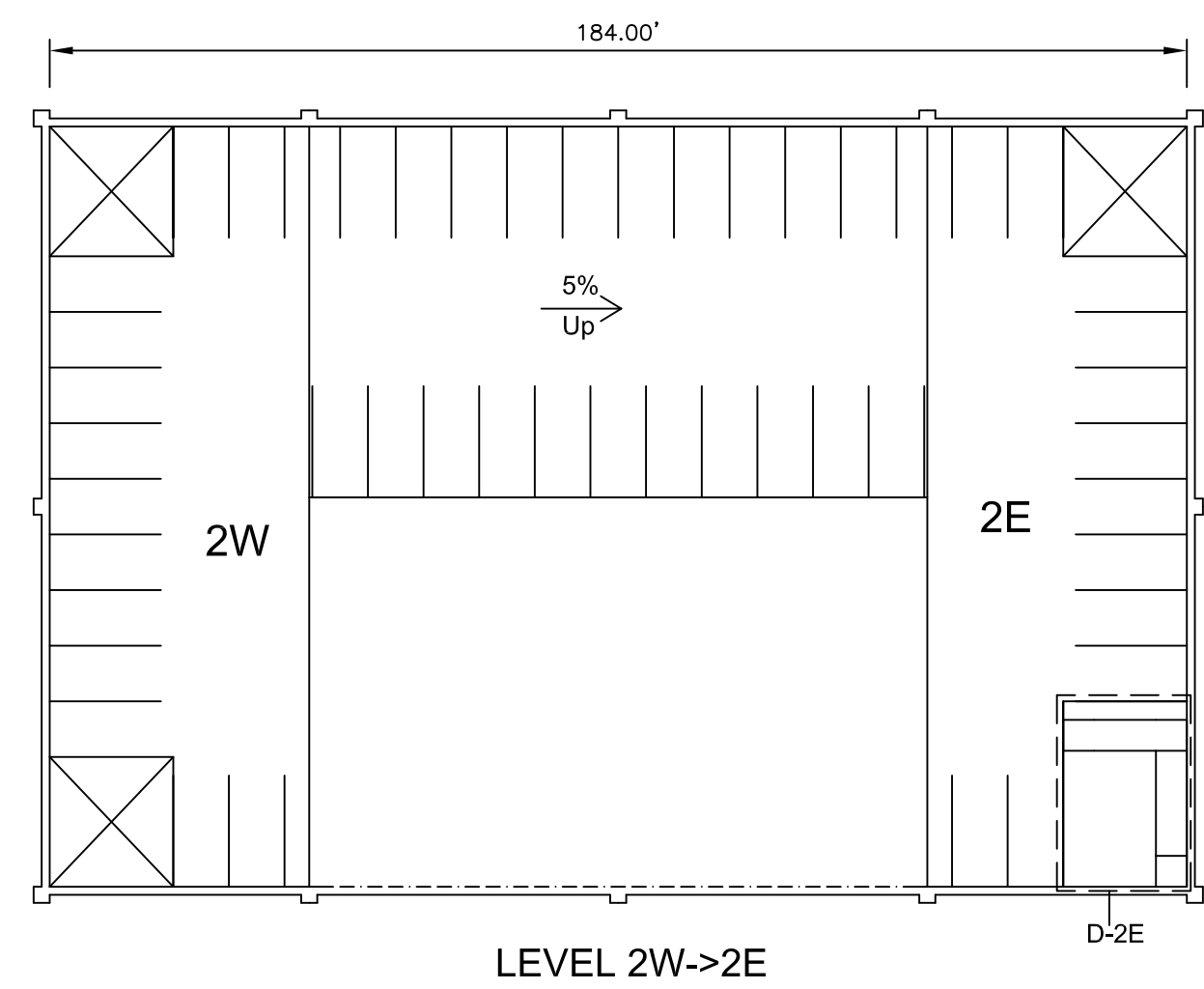
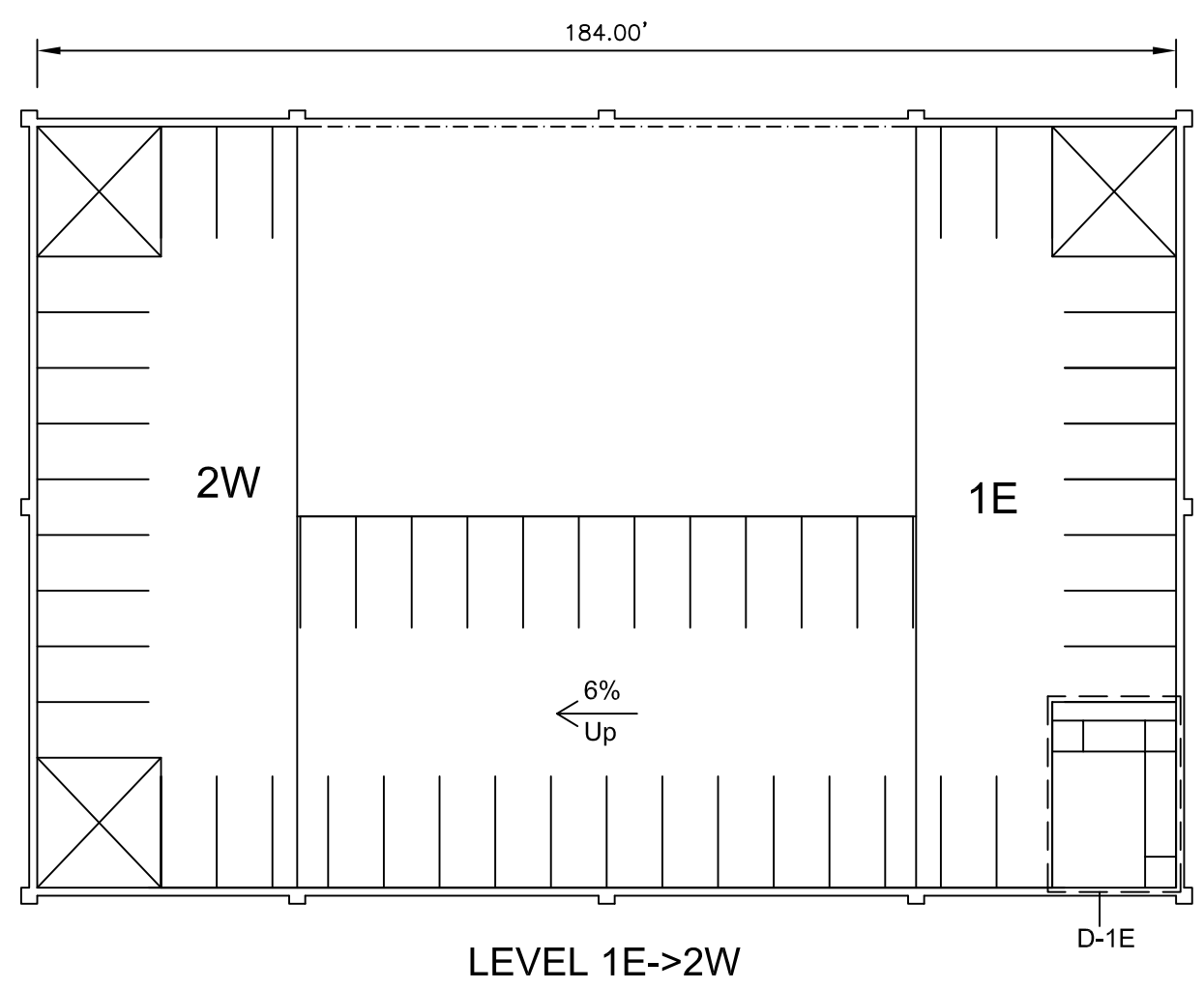
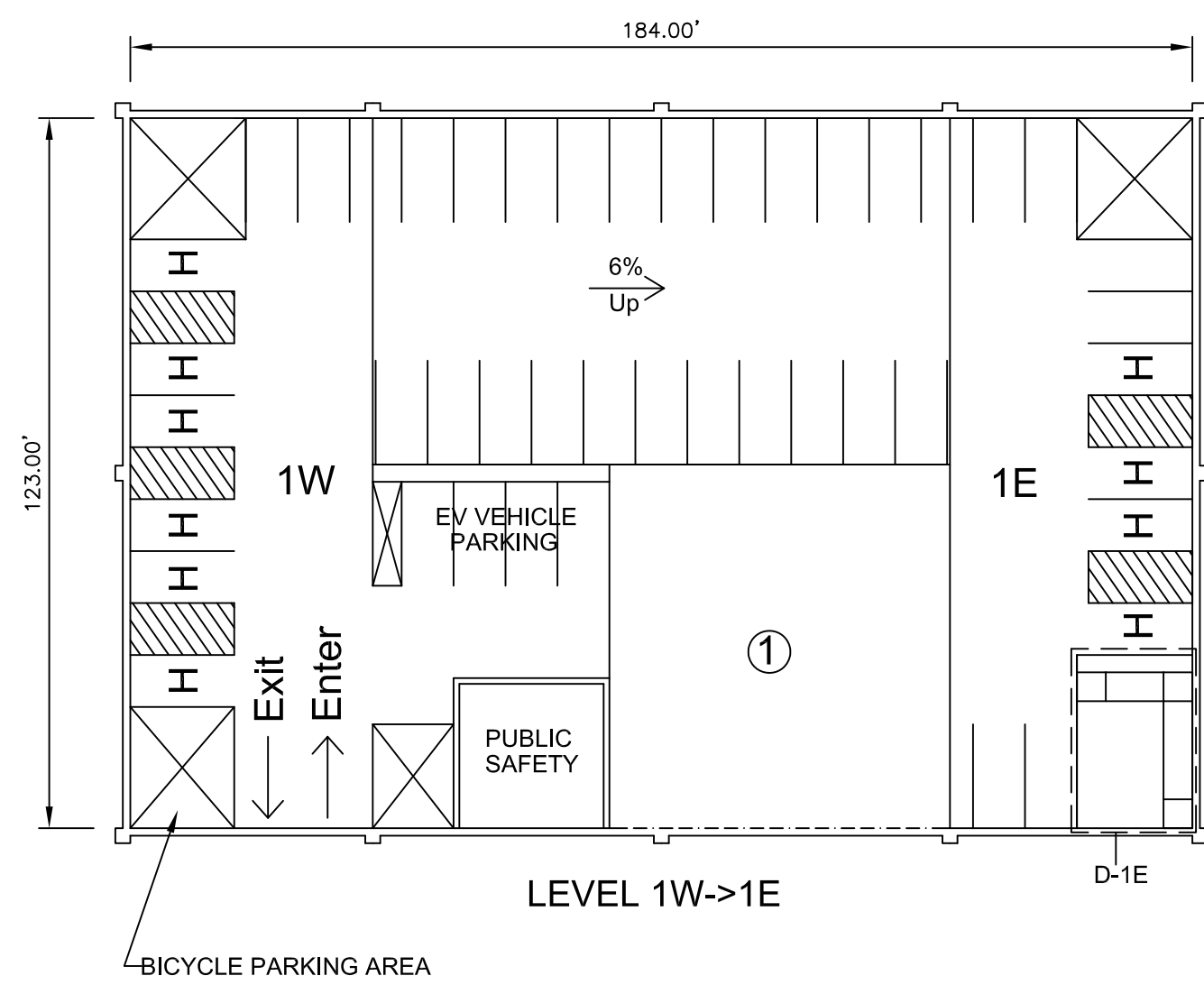
**LAFAYETTE**  
**ENGINEERING COMPANY**

740 High Street, Acopian Engineering Center,  
Lafayette College  
Easton, PA 18042-1775  
T: 610-330-5000 Email: spodcccl@lafayette.edu

PROJECT  
**LAFAYETTE COLLEGE**  
**CIVIL AND ENVIRONMENTAL**  
**ENGINEERING RESEARCH**  
**CENTER (CEERC)**  
CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

DRAWING TITLE  
**PARKING GARAGE**  
**PROPOSED ELEVATIONS**

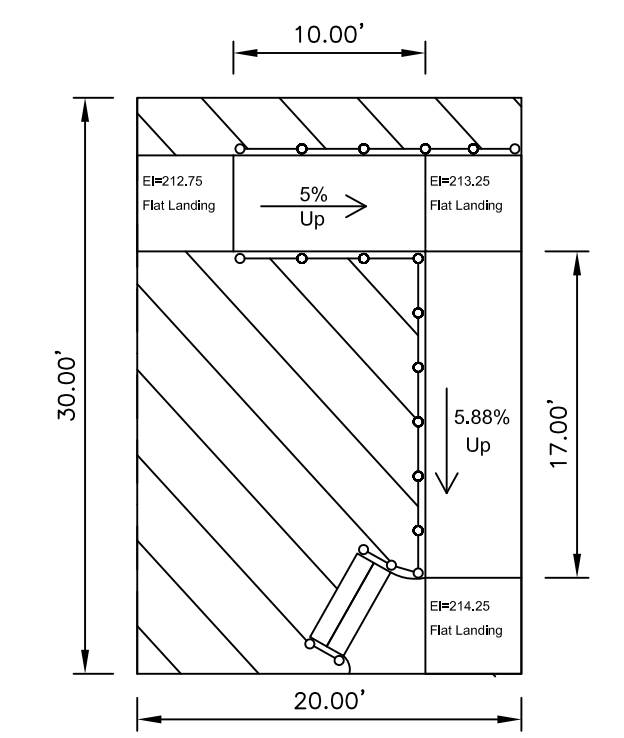
PROJECT NO. CE473-S14	DRAWING NO. <b>AE-13</b>
DATE 5/8/2014	
SCALE 1/16"=1'-0"	
DRAWN BY AMW	
SUBMISSION DATE 5/8/2014	SHEET 13 OF 18



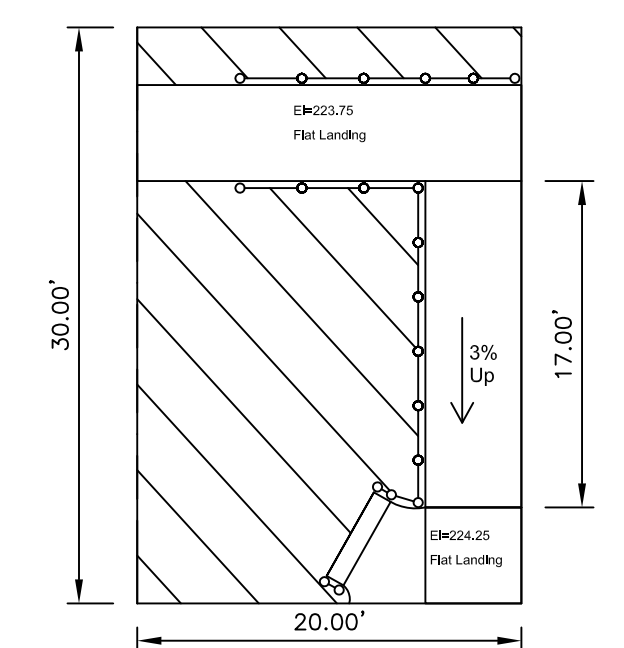
**PARKING GARAGE PLANS**  
SCALE: 1/30"=1'-0"

NOTES:  
① AREA UNDER LEVEL 1E AND RAMP 1E-2W TO BE DEVELOPED AS MACHINE SHOP AND STUDENT RESEARCH LAB AT GRADE WITH BASEMENT OF HUMMEL BUILDING.

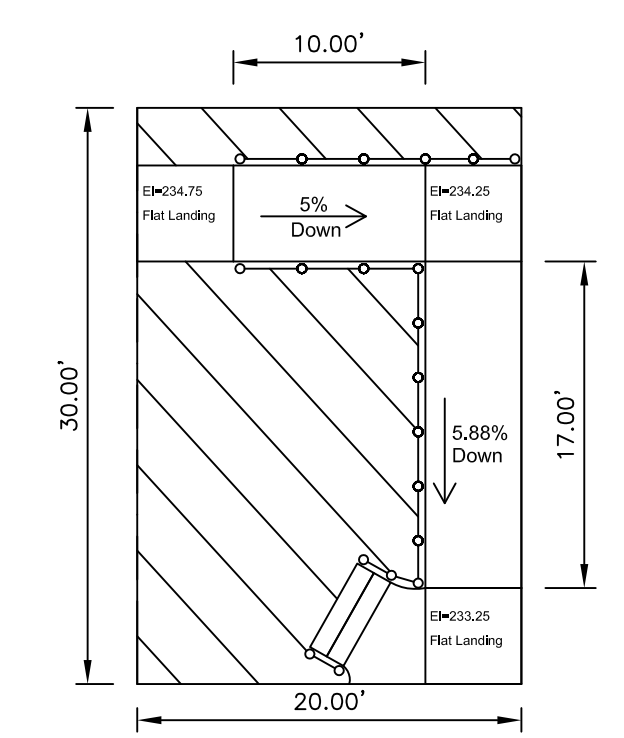
TOTAL PARKING PROVIDED: 306 + 6 HC(VAN) + 4 HC = 316 SPACES



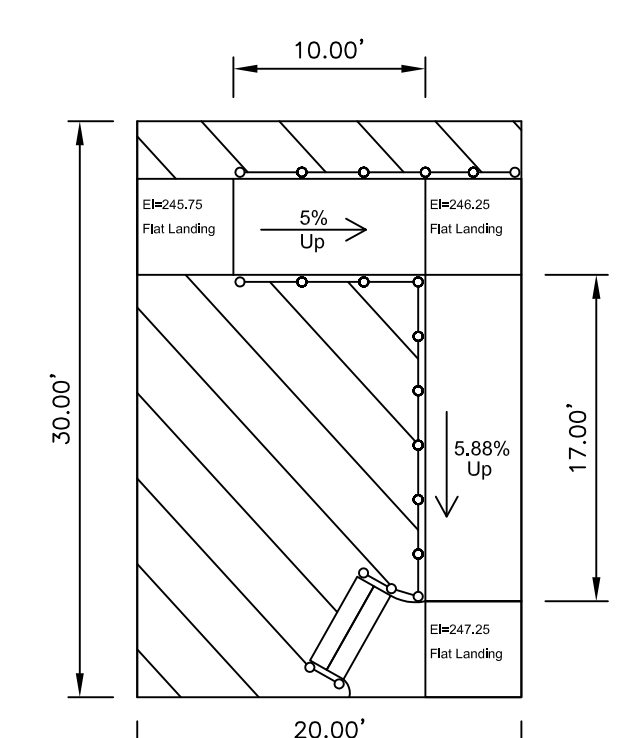
DETAIL 1E



DETAIL 2E




DETAIL 3E



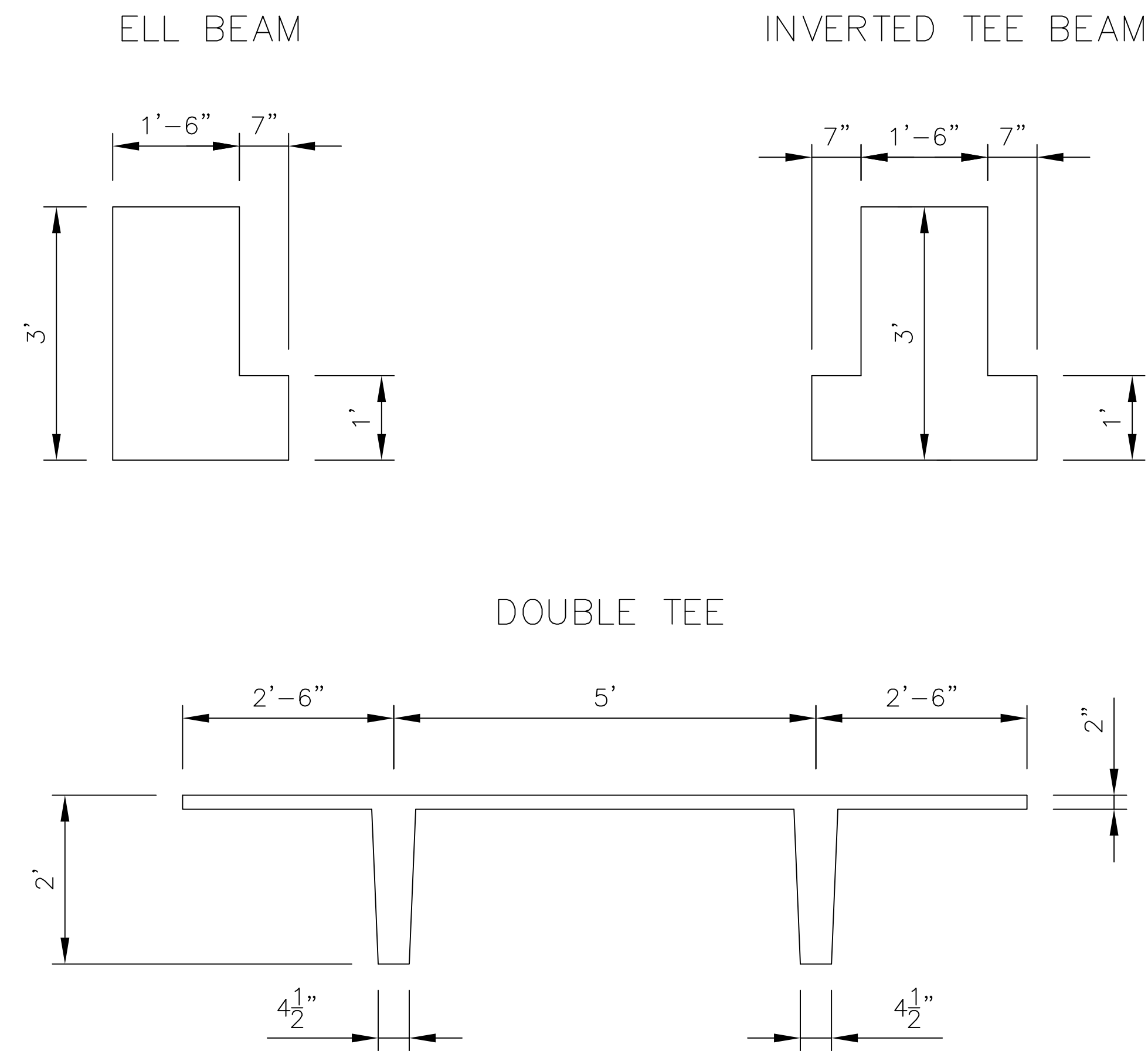
DETAIL 4E

**ADA RAMP DETAILS**  
SCALE: 1/10"=1'-0"

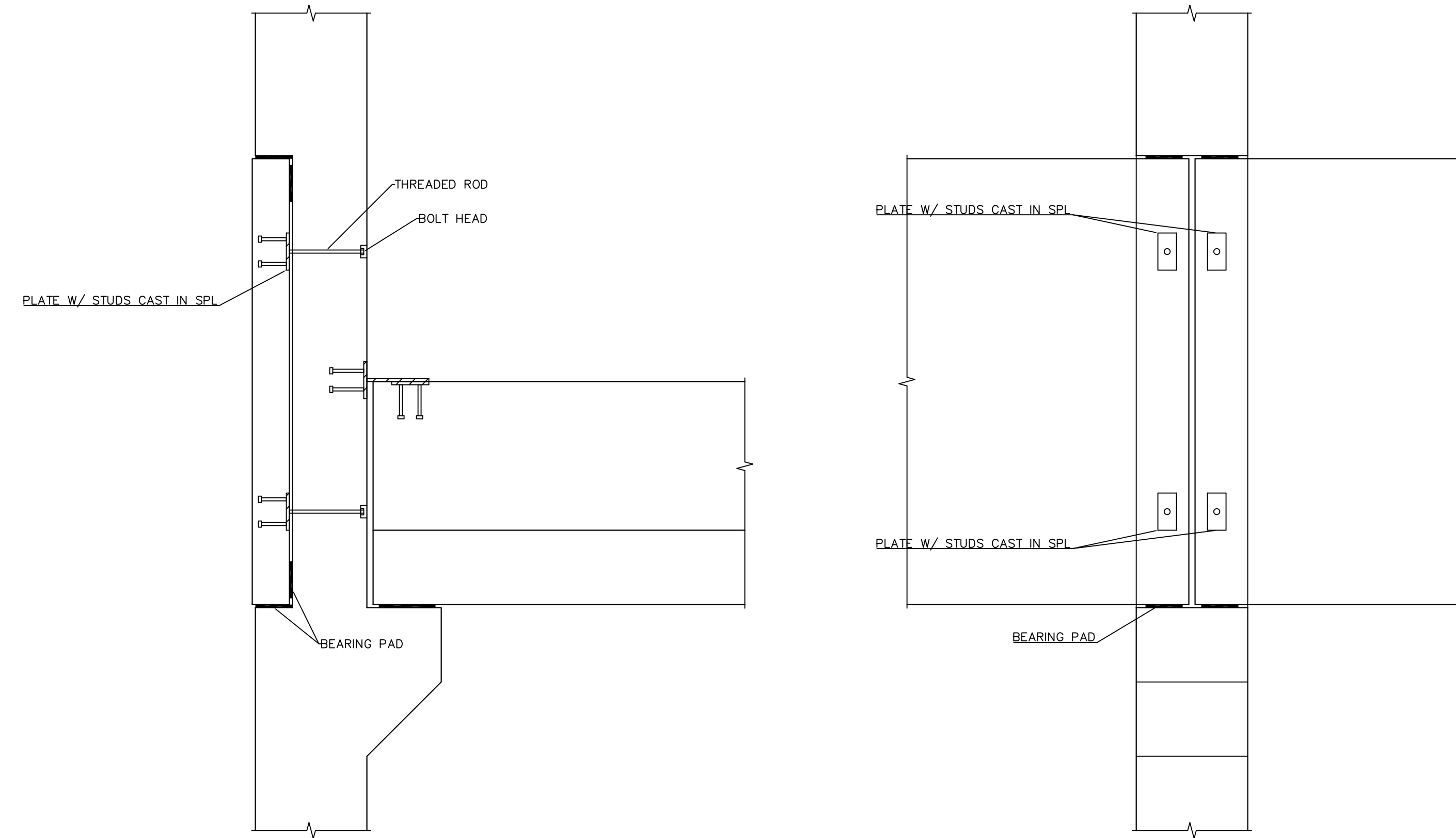
DATE	DESCRIPTION	NO.
REVISIONS		
SIGNATURE		DATE SIGNED
<b>B. N. BEHR</b> PROFESSIONAL ENGINEER PA Lic. No. PE-0123456		
		
PROJECT <b>LAFAYETTE COLLEGE</b> CIVIL AND ENVIRONMENTAL ENGINEERING RESEARCH CENTER (CEERC) CITY OF EASTON NORTHAMPTON COUNTY, PENNSYLVANIA		
DRAWING TITLE		
<b>PARKING GARAGE PROPOSED PLANS</b>		
PROJECT NO.	CE473-S14	DRAWING NO.
DATE	5/8/2014	<b>AE-14</b>
SCALE	AS NOTED	
DRAWN BY	AMW	
SUBMISSION DATE	5/8/2014	SHEET 14 OF 18

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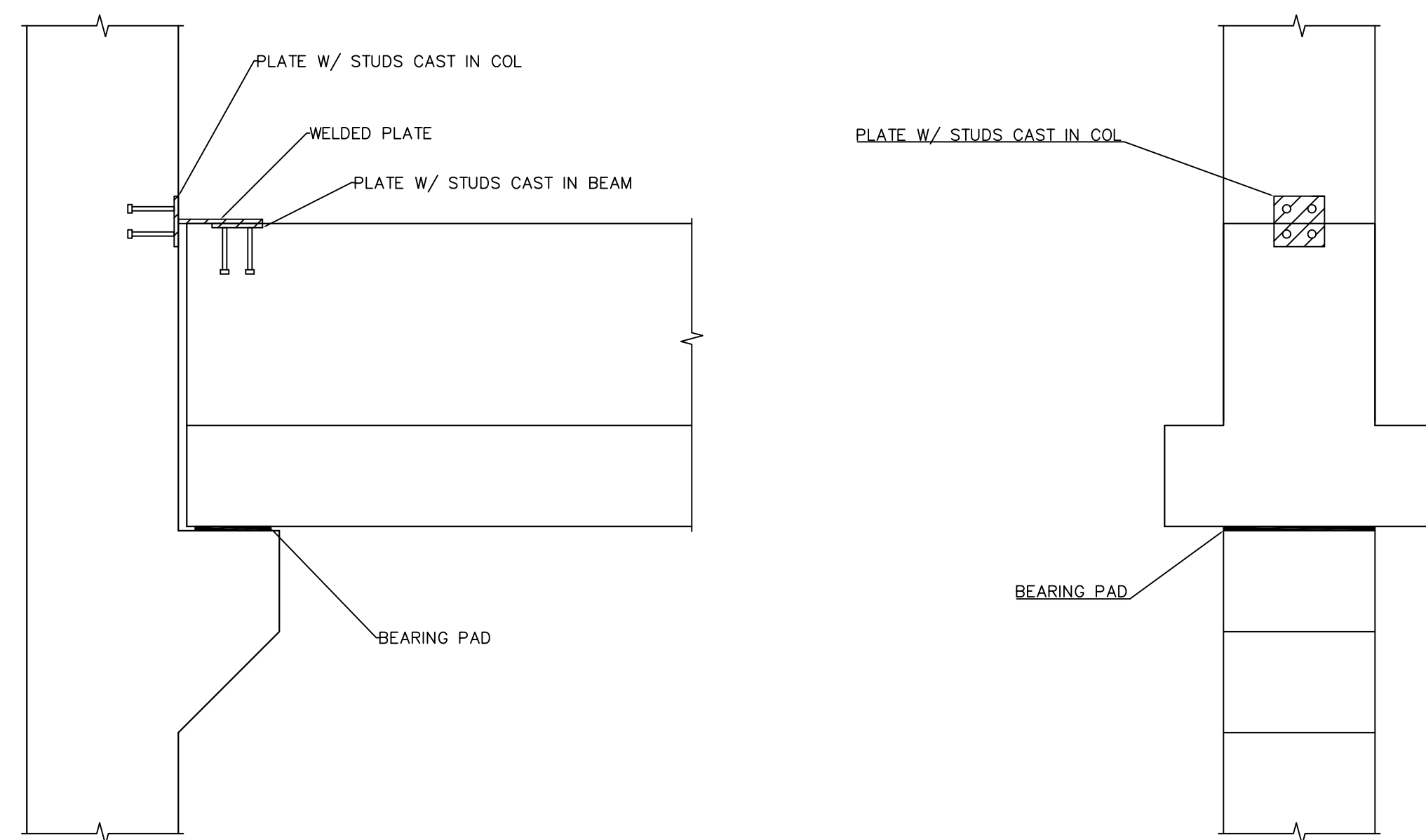
TYP SECTIONS



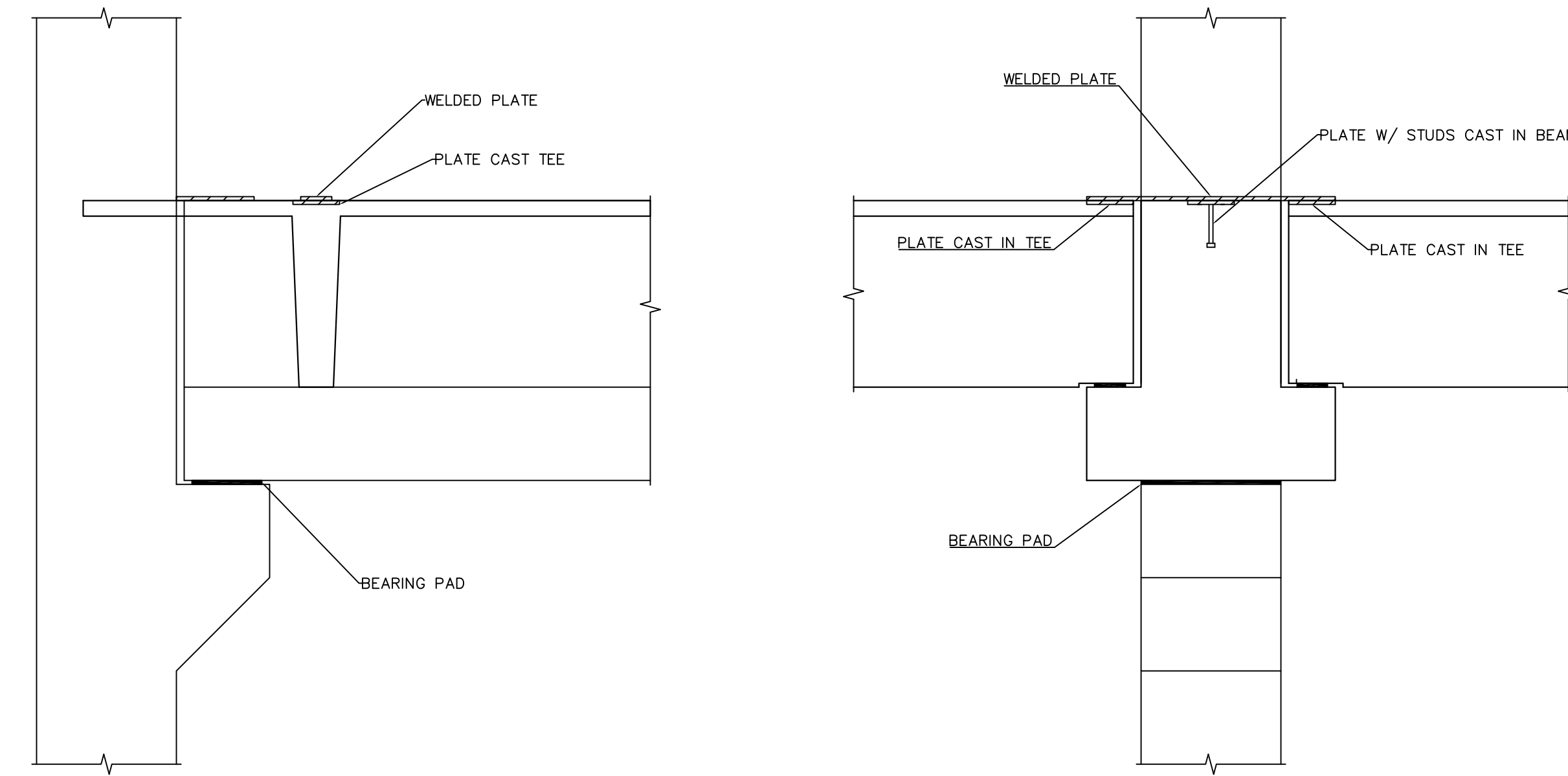
TYP COL/SPL DETAIL



TYP COL/BEAM DETAIL



TYP COL/BEAM/TEE DETAIL

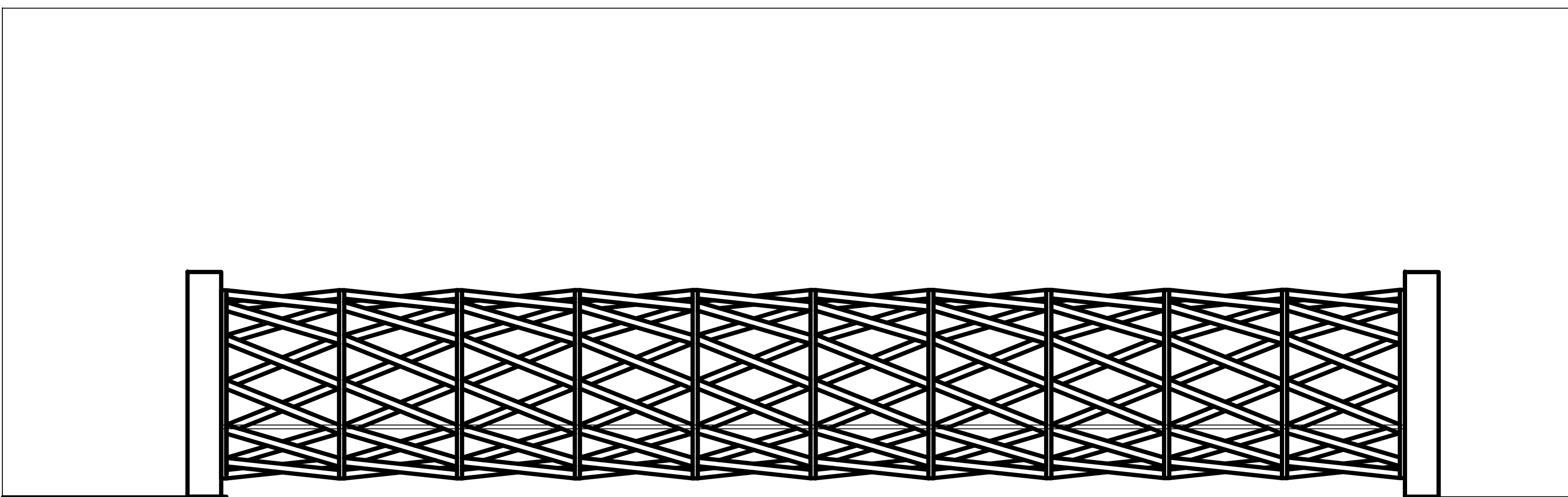


DATE	DESCRIPTION	NO.
REVISIONS		
SIGNATURE		DATE SIGNED
B. N. BEHR PROFESSIONAL ENGINEER PA Lic. No. PE-0123456		

**LAFAYETTE**  
ENGINEERING COMPANY

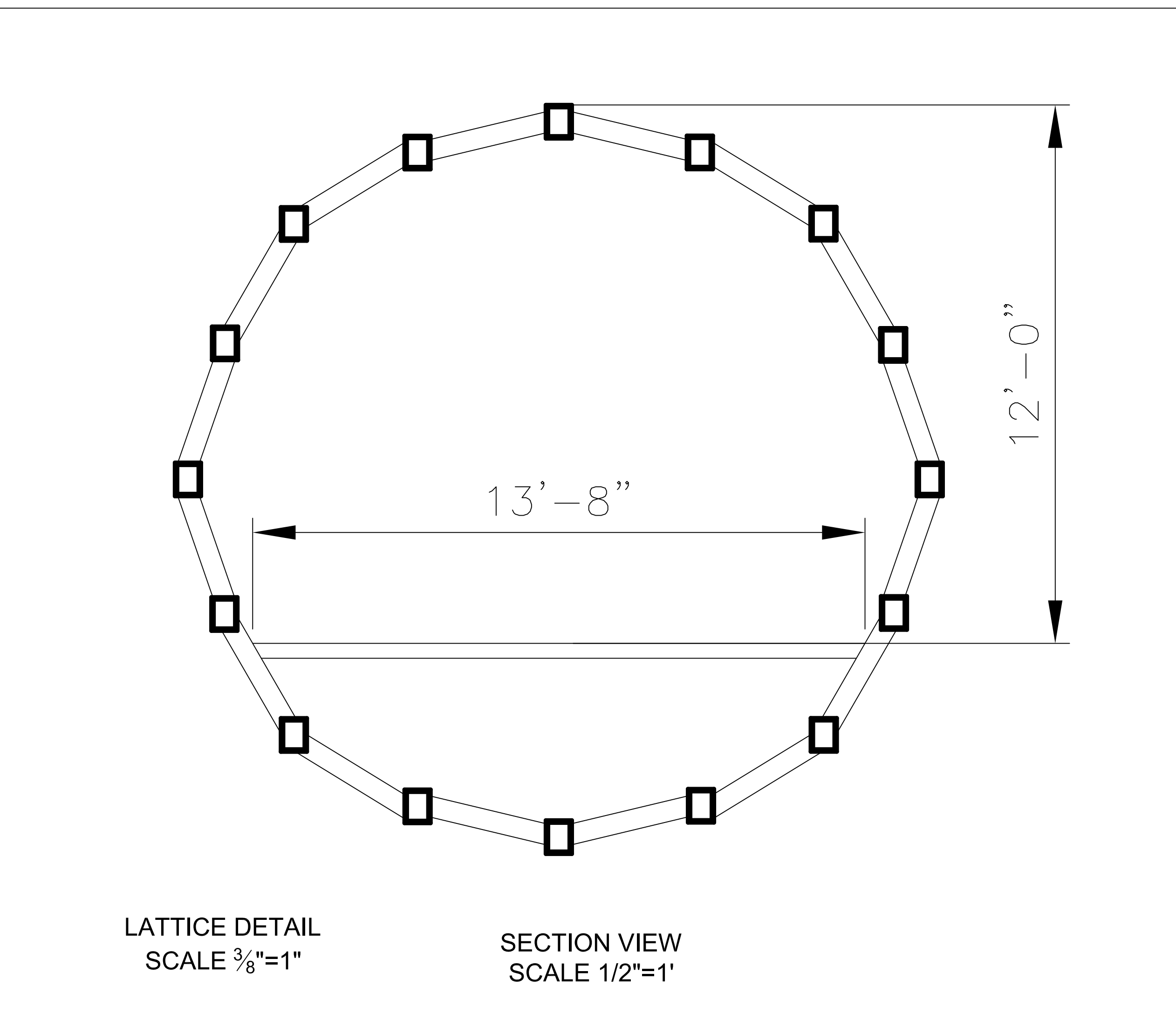
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Easton, PA 18042-1775  
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PROJECT <b>LAFAYETTE COLLEGE</b>	
CIVIL AND ENVIRONMENTAL ENGINEERING RESEARCH CENTER (CEERC)	
CITY OF EASTON NORTHAMPTON COUNTY, PENNSYLVANIA	
DRAWING TITLE <b>PARKING GARAGE</b> Typical Structural Details	
PROJECT NO. CE473-S14	DRAWING NO.
DATE 5/8/2014	<b>AE-15</b>
SCALE 3/4" = 1'	
DRAWN BY MM MR	SHEET 15 OF 18
SUBMISSION DATE 5/8/2014	



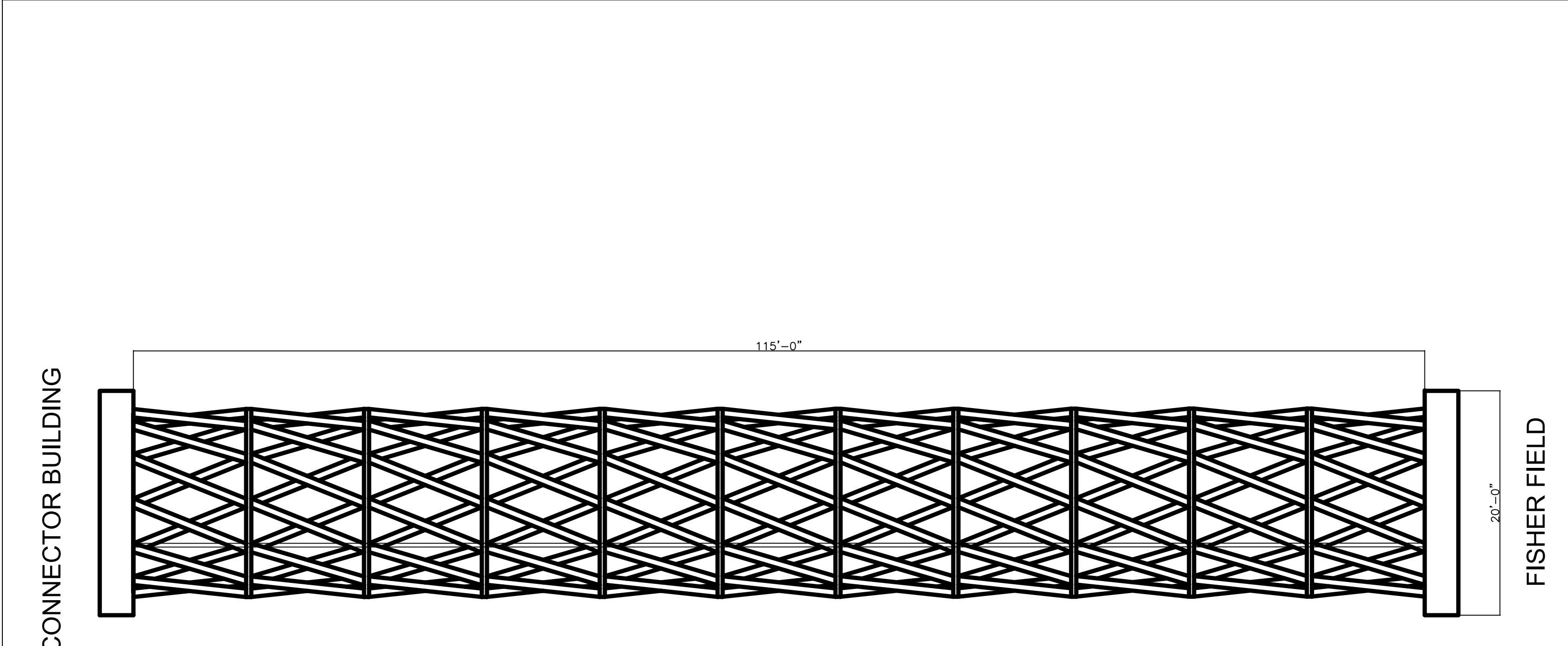
CONNECTOR BUILDING

FISHER FIELD



LATTICE DETAIL  
SCALE 3/8"=1"

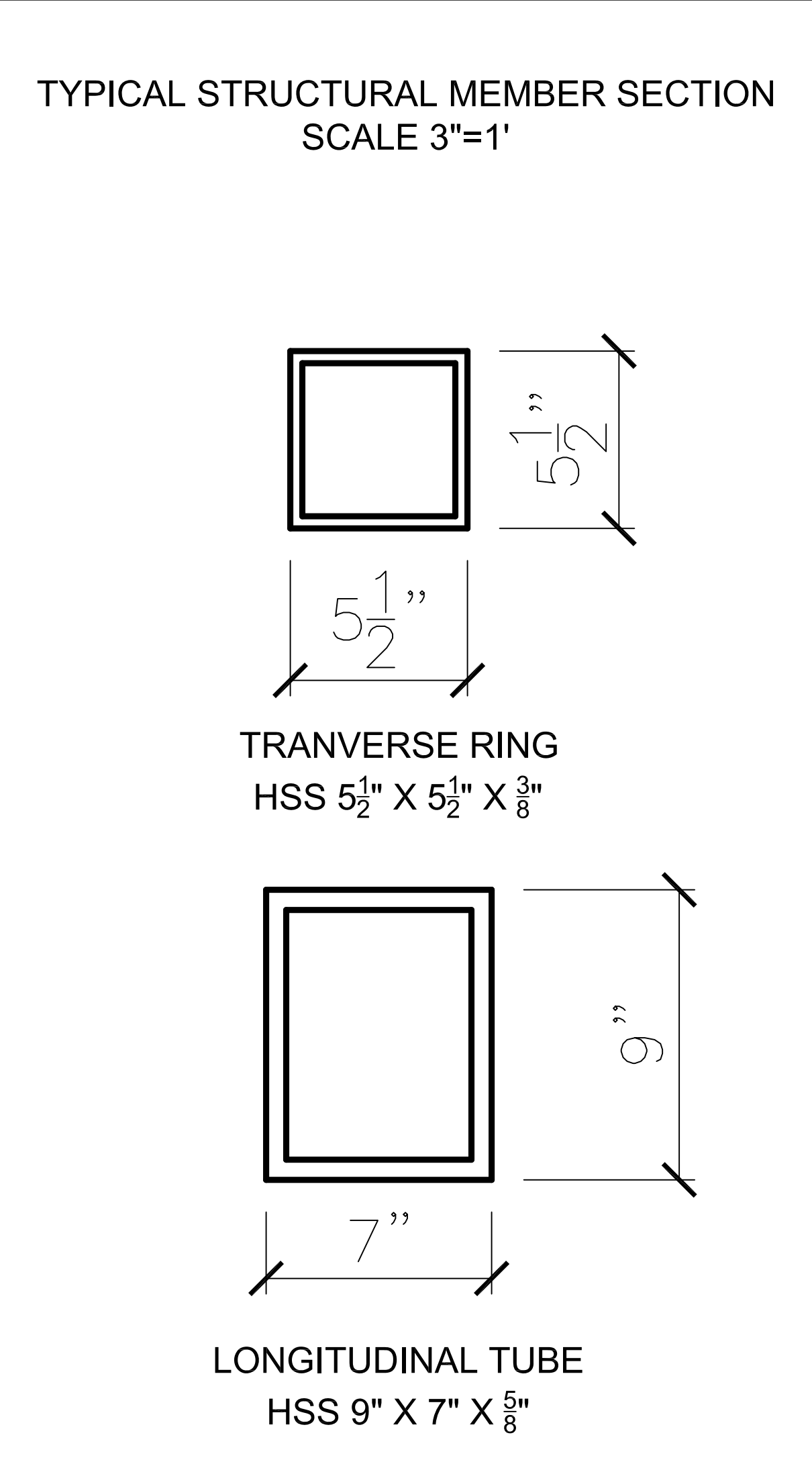
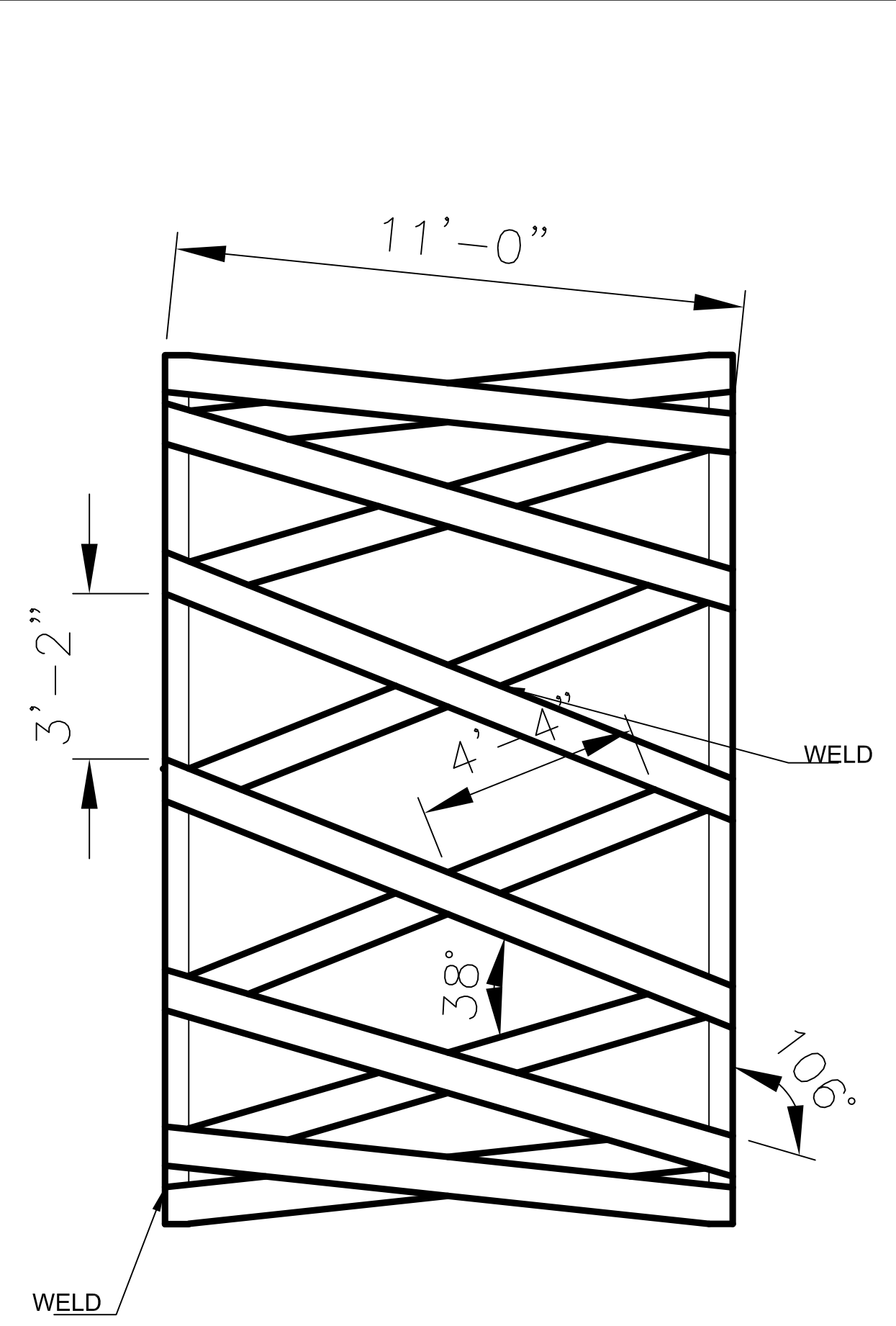
SECTION VIEW  
SCALE 1/2"=1'



CONNECTOR BUILDING

FISHER FIELD


PLAN VIEW  
SCALE 1/8"=1'



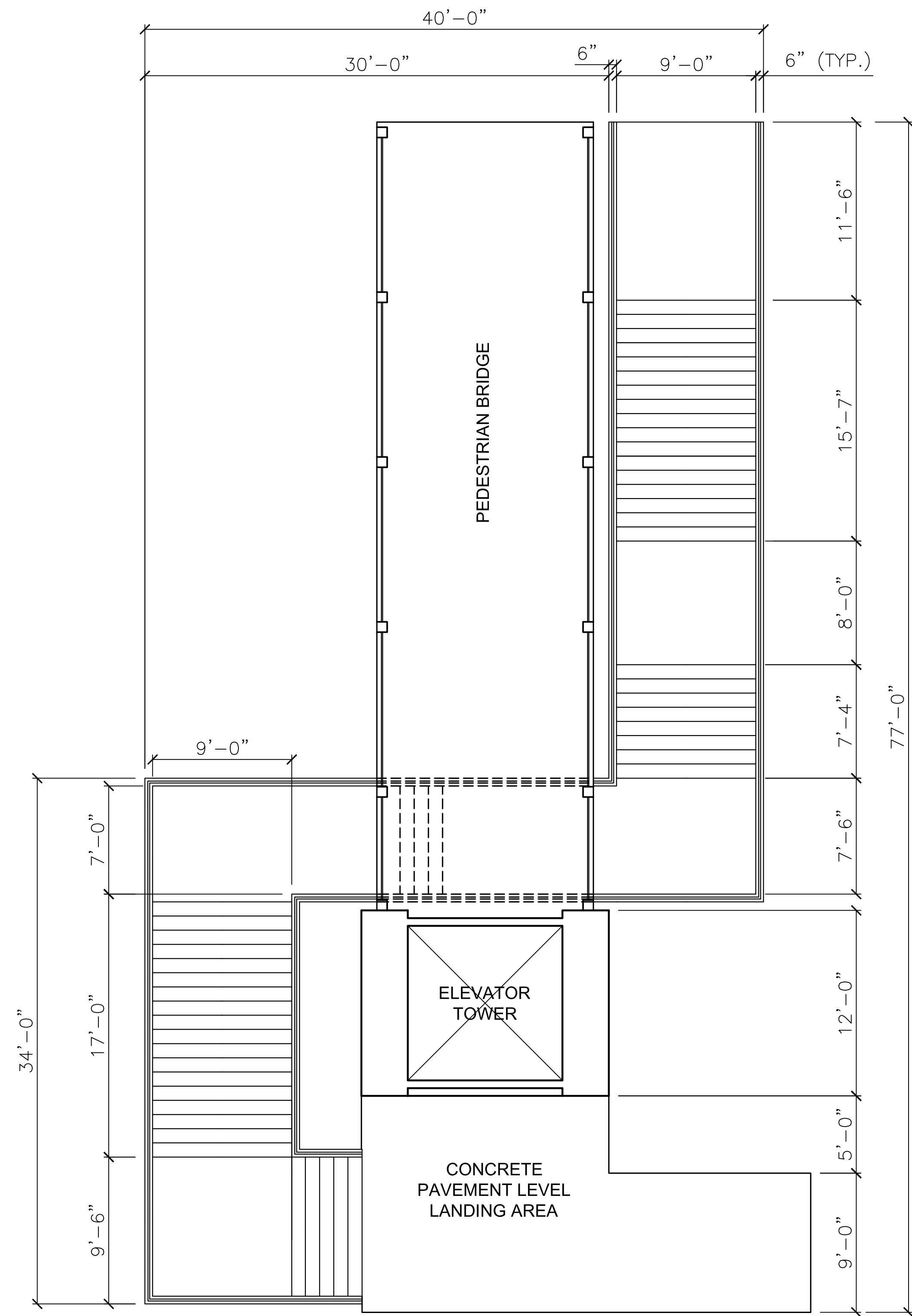
TYPICAL STRUCTURAL MEMBER SECTION  
SCALE 3"=1'

TRANSVERSE RING  
HSS 5 1/2" X 5 1/2" X 3/8"

LONGITUDINAL TUBE  
HSS 9" X 7" X 5/8"

DATE	DESCRIPTION	NO.
REVISIONS		
SIGNATURE		DATE SIGNED
B. N. BEHR PROFESSIONAL ENGINEER PA Lic. No. PE-0123456		
		
740 High Street, Acapton, Engineering Center, Lafayette College Easton, PA 18042-1775 T: 610-330-5000 Email: spudccc@lafayette.edu		
PROJECT		
LAFAYETTE COLLEGE		
CIVIL AND ENVIRONMENTAL ENGINEERING RESEARCH CENTER (CEERC)		
CITY OF EASTON NORTHAMPTON COUNTY, PENNSYLVANIA		
DRAWING TITLE		
PEDESTRIAN BRIDGE PLAN AND DETAILS		
PROJECT NO.	CE473-S14	DRAWING NO.
DATE	5/12/2014	AE-16
SCALE	VARIES	
DRAWN BY	JMW	
SUBMISSION DATE	5/12/2014	SHEET 16 OF 18

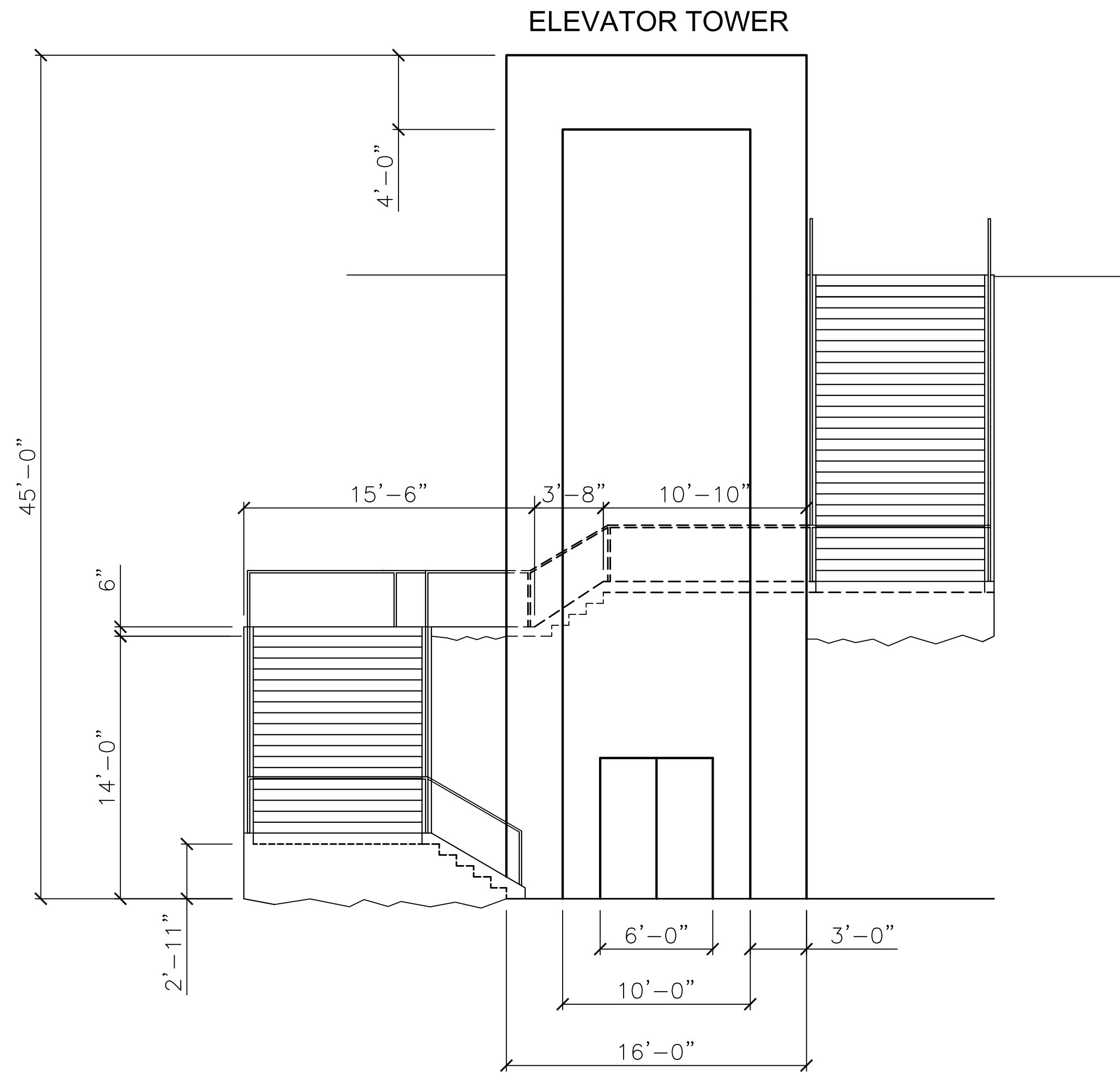




PLAN

NOTES

- 1. Stair height is 7" with stair length of 11"



NORTH ELEVATION

DATE	DESCRIPTION	NO.
------	-------------	-----

REVISIONS

SIGNATURE DATE SIGNED

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PA Lic. No. PE-0123456



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PROJECT  
**LAFAYETTE COLLEGE**  
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ENGINEERING RESEARCH  
CENTER (CEERC)  
CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

ADA TOWER/ PLAN  
& ELEVATION

PROJECT NO.	DRAWING NO.
CE473-S14	<b>AE-17</b>
DATE 5/13/2014	
SCALE 3/16" = 1'	
DRAWN BY MJH	
SUBMISSION DATE 5/13/2014	
SHEET 18 OF 18	

REVISIONS

SIGNATURE DATE SIGNED

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PROFESSIONAL ENGINEER  
PA Lic. No. PE-0123456

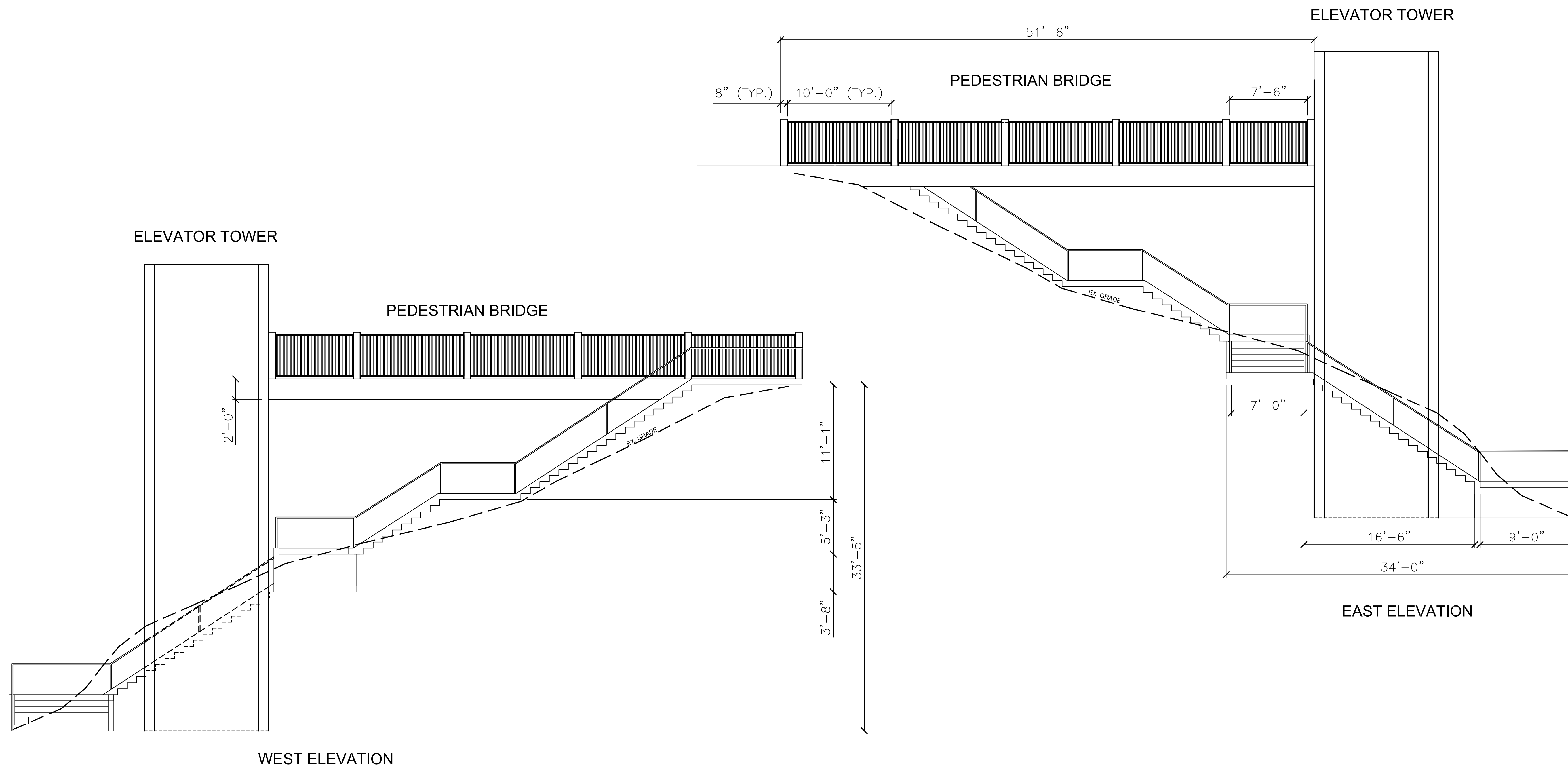


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PROJECT  
**LAFAYETTE COLLEGE**  
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**ENGINEERING RESEARCH**  
**CENTER (CEERC)**  
CITY OF EASTON  
NORTHAMPTON COUNTY, PENNSYLVANIA

**ADA TOWER**  
**ELEVATION**

PROJECT NO. CE473-S14	DRAWING NO. <b>AE-18</b>
DATE 5/8/2014	
SCALE $\frac{3}{16}'' = 1'$	
DRAWN BY MJH	
SUBMISSION DATE 5/8/2014	SHEET 18 OF 18



- NOTES**
1. 8" x 8" posts at 4'-6" height
  2. 3" spacing of 1" bars between posts