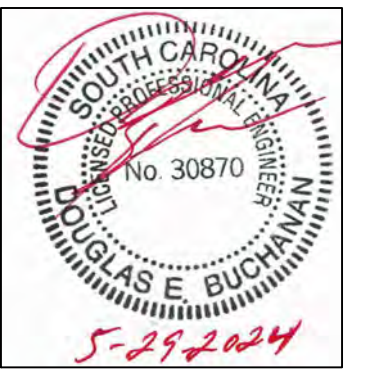


# BUILDING ENVELOPE RESTORATION AND REPAIRS

## GROVE ELEMENTARY SCHOOL 1220 OLD GROVE ROAD, PIEDMONT, SOUTH CAROLINA 29673

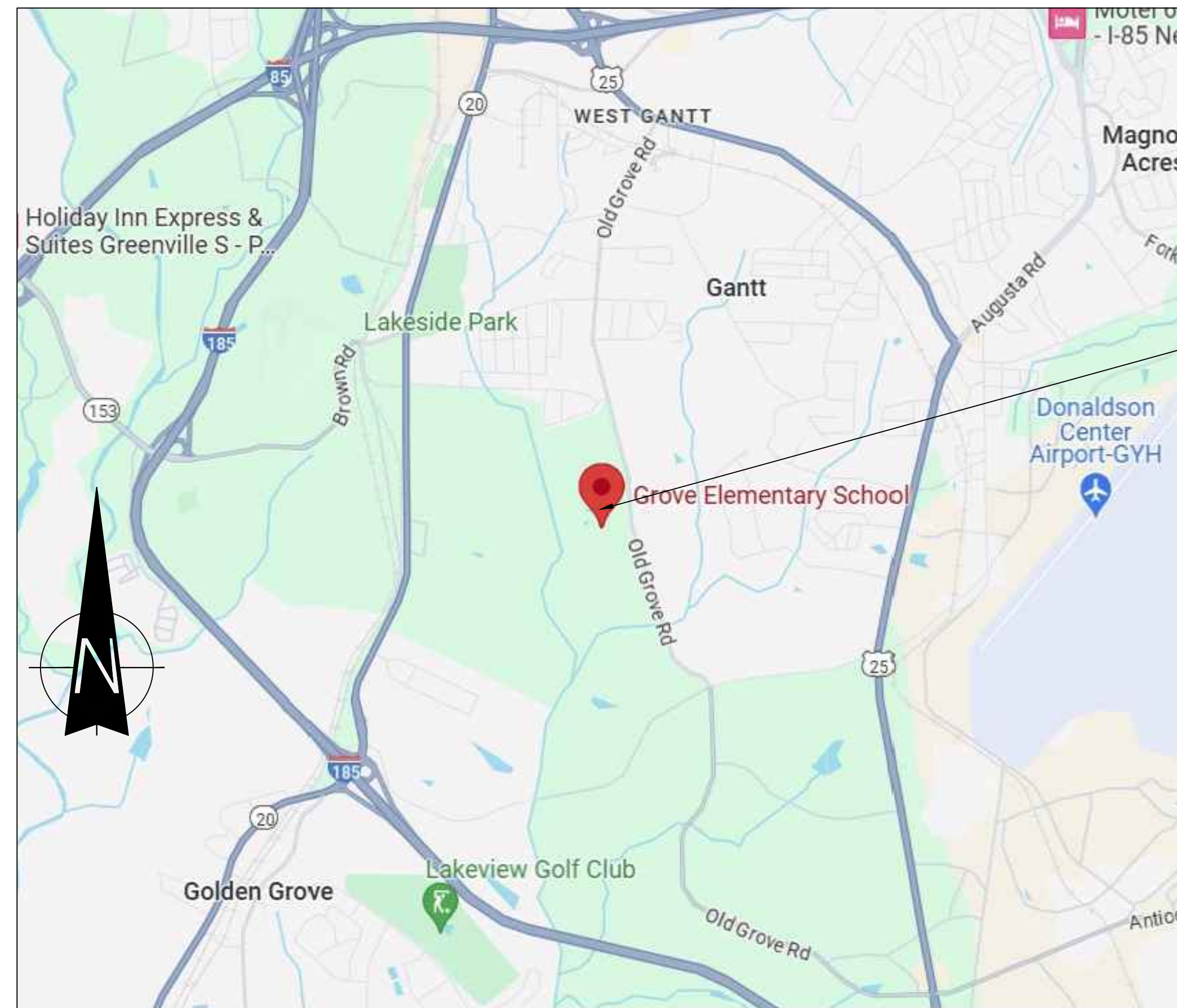


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Greenville County  
301 E Camperdown Way  
Greenville, SC 29601

OWNER

**BUILDING ENVELOPE RESTORATION AND REPAIRS**  
**GROVE ELEMENTARY SCHOOL**  
**1220 OLD GROVE ROAD, PIEDMONT,**  
**SOUTH CAROLINA 29673**



VICINITY MAP



GROVE ELEMENTARY SCHOOL

### GROVE ELEMENTARY SCHOOL

#### DESCRIPTION OF WORK:

- A. REMOVE OLD CAULK AND RECAULK AREAS AT CONCRETE PANEL JOINTS INCLUDING BACKER RODS AND JOINTS AROUND THE WINDOW FRAMES, DOOR FRAMES, AND LOUVERS, AND THE CONCRETE.
- B. INSTALL HELICAL PILES AT THE BASE OF TILTED WALL.

#### DRAWINGS:

- CO-1 COVER SHEET
- F3-1 BUILDING CODE ANALYSIS
- F3-2 BUILDING CODE ANALYSIS
- F3-3 BUILDING CODE ANALYSIS
- F3-4 BUILDING CODE ANALYSIS
- F3-5 BUILDING CODE ANALYSIS
- F3-6 BUILDING CODE ANALYSIS
- C-1.0 SOIL BORING
- C-1.1 SITE AND UTILITY PLAN
- C-2 HELICAL LAYOUT
- C-3 ELEVATIONS
- C-4 ELEVATIONS
- C-5 ELEVATIONS

- C-6 WINDOW DETAILS
- C-7 HELICAL PILE DETAILS
- E 3.1 AS BUILT ELEVATION
- E 4.1 AS BUILT CONNECTIONS
- E 6.1 AS BUILT X-SECTIONS
- WP12 AS BUILT WALL REINFORCEMENT

#### PLANTING NOTES

- THE CONTRACTOR SHALL SEED ANY DENUDED AREA WITHIN 7 DAYS OF FINAL EARTH MOVING ACTIVITY.
- SEEDING SPECIFICATIONS
  - 20 POUNDS PER AC OF ANNUAL RYE GRASS
  - 25 POUNDS PER AC OF TIFWAY 419 BERMUDA GRASS
  - DEPENDING ON THE SEASON, USE 100 POUNDS OF KY FESCUE IN PLACE OF THE BERMUDA
  - 100 POUNDS PER AC OF 10-10-10 FERTILIZER
  - 100 POUNDS PER AC OF LIME
  - WHEAT STRAW
  - WATER THE SEEDED AREAS FOR 7 DAYS.
- THE SEEDING BED SHALL BE PREPARED BY MIXING THE AMENITIES INTO THE TOP 4 INCHES OF THE SOIL AND REMOVING ALL ROCK LARGER THAN ¾". THE SEED SHALL BE RAKED INTO THE TOP ¼" OF THE SEED BED AND SPREAD STRAW AND WATER.
- CONTRACTOR SHALL WATER THE NEWLY PLANTED GRASS UNTIL THE GRASS IS ESTABLISHED. WATERING SHALL BE AS DICTATED BY THE AMOUNT OF RAIN RECEIVED. ANY BARE SPOTS SHALL BE RE-SEEDED AND WATERED UNTIL THE GRASS IS ESTABLISHED

MARK	DATE	DESCRIPTION

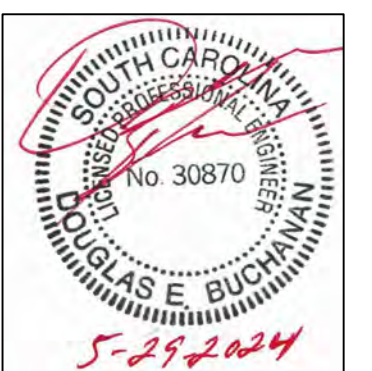
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COVER SHEET  
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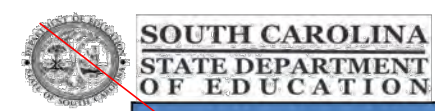
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**Building Code Analysis**  
SHEET TITLE

**F3-2**  
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Form F3 – Building Code Analysis

**SUMMARY - BUILDING DESIGN OCCUPANT LOAD**

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area
1 <sup>st</sup> FLOOR				
2 <sup>nd</sup> FLOOR				
3 <sup>rd</sup> FLOOR				
4 <sup>th</sup> FLOOR				
TOTAL:	0	0	0	0

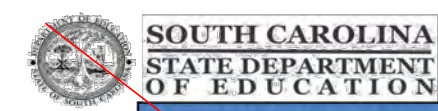
Note: Per SC Building Code Chapter 10, list individual spaces occupant load on life safety plan. Double Click to Edit Table.

**NA ALLOWABLE BUILDING AREA**

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5

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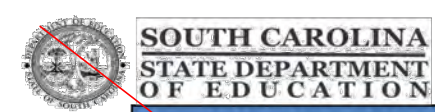


Form F3 – Building Code Analysis

	A <sub>1</sub> = SF	A <sub>2</sub> = SF	A <sub>3</sub> = SF	A <sub>4</sub> = SF	A <sub>5</sub> = SF
A <sub>t</sub> Tabular allowable area factor (NS, S1, S13R or SM as applicable) in accordance with IBC Table 506.2					
Allowable Area Increase (Equations 5-1 through 5-5, as applicable)	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
IBC Section 506.3.2 Equation 5-4 where: W = (L <sub>1</sub> x w <sub>1</sub> + L <sub>2</sub> x w <sub>2</sub> + L <sub>3</sub> x w <sub>3</sub> + ...) / F W = Width of public way or open space L <sub>n</sub> Length of a portion of the exterior perimeter wall. w <sub>n</sub> Width (>= 20 feet) of public way or open space associated with that portion of the exterior perimeter wall. F Building perimeter that fronts on a public way or open space having a width of 20 feet or more	L <sub>n</sub> =	L <sub>n</sub> =	L <sub>n</sub> =	L <sub>n</sub> =	L <sub>n</sub> =
IBC Section 506.3.3 Equation 5-5 where: I <sub>r</sub> = [F/P - 0.25] W/30 I <sub>r</sub> = Area factor increase factor due to frontage F Building perimeter that fronts on a public way or open space having a width of 20 feet or more. P Perimeter of entire building (feet). W Width of public way or open space in accordance with Equation 5-4	P =	P =	P =	P =	P =
	I <sub>r</sub> =	I <sub>r</sub> =	I <sub>r</sub> =	I <sub>r</sub> =	I <sub>r</sub> =

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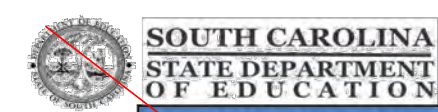


Form F3 – Building Code Analysis

	N <sub>1</sub> =	N <sub>2</sub> =	N <sub>3</sub> =	N <sub>4</sub> =	N <sub>5</sub> =
Allowable building area per story in square feet as calculated by Equations 5-1 through 5-3. (Indicated equation used.)					
<input type="checkbox"/> IBC Section 506.2.1 Equation 5-1 A <sub>s</sub> = A <sub>t</sub> + (N <sub>s</sub> x A <sub>t</sub> )					
<input type="checkbox"/> IBC Section 506.2.3 Equation 5-2 A <sub>s</sub> = [A <sub>t</sub> + (N <sub>s</sub> x I <sub>r</sub> )] x S <sub>s</sub>	S <sub>s</sub> =	S <sub>s</sub> =	S <sub>s</sub> =	S <sub>s</sub> =	S <sub>s</sub> =
<input type="checkbox"/> IBC Section 506.2.4 Equation 5-3 A <sub>s</sub> = [A <sub>t</sub> + (N <sub>s</sub> x I <sub>r</sub> )]					
N <sub>s</sub> Tabular allowable area factor in accordance with Table 506.2 for a non-sprinklered building (regardless of whether the building is sprinklered)	A <sub>s</sub> = SF	A <sub>s</sub> = SF	A <sub>s</sub> = SF	A <sub>s</sub> = SF	A <sub>s</sub> = SF
S <sub>s</sub> Actual number of building stories above grade plane, not to exceed three (3). For buildings equipped throughout with automatic sprinkler system installed in accordance with SCBC Section 903.3.1.2, use the actual number of building stories above grade plane, not to exceed four (4).					
MAXIMUM AREA PER STORY	SF	SF	SF	SF	SF
AREA AS DESIGNED PER STORY (Repeat for each story)	SF	SF	SF	SF	SF

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Form F3 – Building Code Analysis

<b>NA BUILDING HEIGHT</b>							
DESIGNATED AREAS OF BUILDING	Building Code	Area 1		Area 2		Area 3	
HEIGHT		DESIGNED	ALLOWED	DESIGNED	ALLOWED	DESIGNED	ALLOWED
In Feet	Table 504.3						
In Stories	Table 504.4						

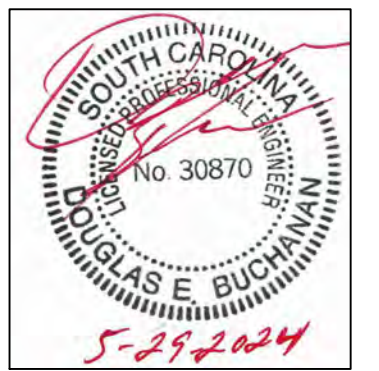
Note: Allowable Building Height & Number of Stories Above Grade Plane

<b>NA BUILDING HEIGHT</b>					
DESIGNATED AREAS OF BUILDING	Building Code	Area 4		Area 5	
HEIGHT		DESIGNED	ALLOWED	DESIGNED	ALLOWED
In Feet	Table 504.3				
In Stories	Table 504.4				

Note: Allowable Building Height & Number of Stories Above Grade Plane

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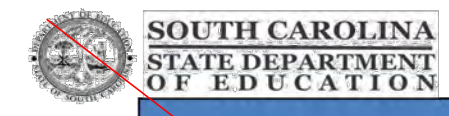
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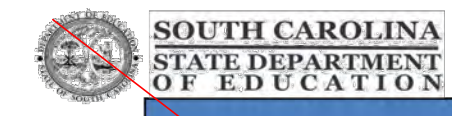
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**Form F3 – Building Code Analysis**

**NA GENERAL FIRE PROTECTION REQUIREMENTS**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
<b>SEPARATIONS</b>						
Fire Wall Required	Section 706	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Barrier Required	Section 707	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> NO <input type="checkbox"/> YES	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Partition Required	Section 708	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Smoke Barriers Required	Section 709	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Smoke Partitions Required	Section 710	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fireblocking	Section 718.2	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Draftstopping	Sections 718.3 & 718.4	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Incidental Use Area One hour fire barrier Sprinkler system plus smoke resistance	Section 509.4	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
<b>ALARM &amp; DETECTION</b>						
Fire Alarm and Detection System		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Alarm		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Mass Notification Emergency voice/ alarm comm.	SCFC Section 907	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Emergency Alarm System Required	SCFC Section 908	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
<b>SUPPRESSION</b>						
Automatic Sprinkler System Provided Required	SCFC Section 903	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO

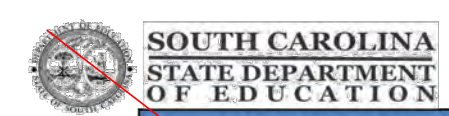


**Form F3 – Building Code Analysis**

Alternative Automatic Fire Extinguishing Kitchen Hoods Other	SCFC Section 904	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Standpipes Required	SCFC Section 905	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Portable extinguishers required General Building Kitchen Labs	SCFC Section 906	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO

**NA OTHER FIRE AND LIFE SAFETY FEATURES**

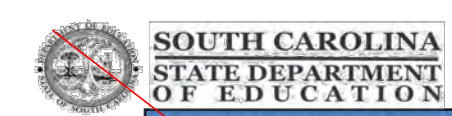
DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Smoke Control System	Section 909	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Smoke & Heat Removal Required	SCFC 910	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Department Connections	Section 912	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Carbon Monoxide Detection	Section 915	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Gas Detection Systems	Section 916	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Emergency Responder Radio Coverage	Section 918	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Fire Apparatus Access and Water Line	SCFC 503 & 507	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
2-way Communication Required	Section 1009.8	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Area of Refuge (e.g. Separation, Two-Way Communication, and Instruction)	Sections 1009.6, 1009.9, 1009.10 & 1009.11	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Exterior Area for Assisted Rescue (e.g. Separation, Openness, and Instruction)	Sections 1009.7, 1009.9, 1009.10 & 1009.11	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
Safe Dispersal Area (Add others as needed)	Section 1028.5	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
(Add others as needed)		<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
(Add others as needed)		<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO



**Form F3 – Building Code Analysis**

**NA FIRE RESISTANCE RATING OF BUILDING ELEMENTS**

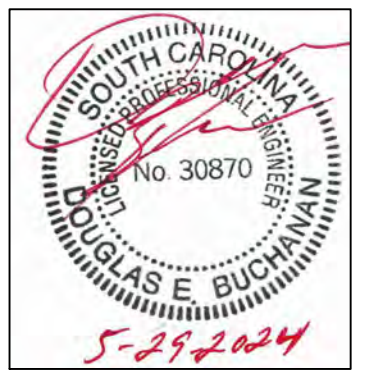
DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Primary Structural Frame	As Required, Hrs					
	As Designed, Hrs					
	Testing Agency & Design No.(UL, FM, etc)					
	Wall/Partition Key Code					
Bearing Walls, Exterior	As Required, Hrs					
	As Designed, Hrs					
	Testing Agency & Design No.(UL, FM, etc)					
	Wall/Partition Key Code					
Bearing Walls, Interior	As Required, Hrs					
	As Designed, Hrs					
	Testing Agency & Design No.(UL, FM, etc)					
	Wall/Partition Key Code					
Nonbearing Walls and Partitions, Interior	As Required, Hrs					
	As Designed, Hrs					
	Testing Agency & Design No.(UL, FM, etc)					
	Wall/Partition Key Code					



**Form F3 – Building Code Analysis**

**NA FIRE RESISTANCE RATING OF BUILDING ELEMENTS**

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Nonbearing Walls and Partitions, Exterior	As Required, Hrs					
	As Designed, Hrs					
	Testing Agency & Design No.(UL, FM, etc)					
	Wall/Partition Key Code					
Floor Construction and associated secondary members	As Required, Hrs					
	As Designed, Hrs					
	Testing Agency & Design No.(UL, FM, etc)					
	Wall/Partition Key Code					
Roof Construction and associated secondary members	As Required, Hrs					
	As Designed, Hrs					
	Testing Agency & Design No.(UL, FM, etc)					
	Wall/Partition Key Code					
Fire Walls	As Required, Hrs					
	As Designed, Hrs					
	Testing Agency & Design No.(UL, FM, etc)					
	Wall/Partition Key Code					



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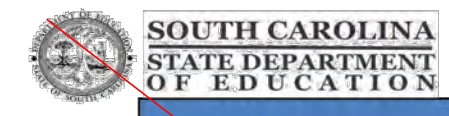
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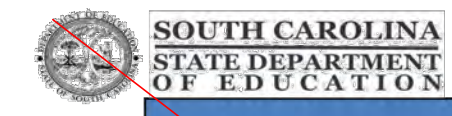
**Form F3 – Building Code Analysis**

**NA FIRE RESISTANCE RATING OF BUILDING ELEMENTS**

DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Fire Barriers	As Required, Hrs	Section 707					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Fire Partitions	As Required, Hrs	Section 708					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Smoke Barriers	As Required, Hrs	Section 709					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Smoke Partitions	As Required, Hrs	Section 710					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						

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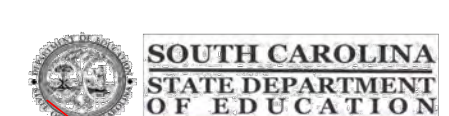
**Form F3 – Building Code Analysis**

**NA FIRE RESISTANCE RATING OF BUILDING ELEMENTS**

DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Horizontal Assemblies	As Required, Hrs	Section 711					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Shaft Enclosures	As Required, Hrs	Sections 712 & 713					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Opening & Protective Listing by Category (fire shutters, doors, etc.)	As Required, Hrs	Section 716					
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Others (as required by Designer)	As Required, Hrs						
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						

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Version April 2021



**Form F3 – Building Code Analysis**

**NA FLOOD HAZARD INFORMATION and FLOOD LOADS**

FLOOD HAZARD AREA	
Base Flood Elevation (NGVD or FIRM)	MSL
Design Flood Elevation SCBC.1612.3 and ASCE 24	MSL
NON HIGH-VELOCITY WAVE ACTION	
Elevation of Lowest Proposed Floor (Meet ASCE 24 Section 2.6.2.1)	MSL
Dry flood proofing ASCE 24	<input type="checkbox"/> no <input type="checkbox"/> yes
HIGH-VELOCITY WAVE ACTION	
Elevation of bottom of Lowest Horizontal Structural Member of lowest floor	MSL
Flotation resistant (ASCE 24)	<input type="checkbox"/> no <input type="checkbox"/> yes
Breakaway wall per (ASCE 24)	<input type="checkbox"/> no <input type="checkbox"/> yes

**FIRE SERVICE INFORMATION**

Service Line Size	Inches	
Fire Department Connection	Location	
Backflow	Location	
	Type	
Fire Hydrant Flow Test	Date	
	Flow	GPM
	Residual	PSI
	Static	PSI

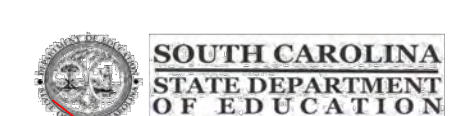
15 of 23

Version April 2021

**NA ENERGY INFORMATION**

INSULATION		
Roof	Cavity	R
	Continuous	R
Walls	Cavity	R
	Continuous	R
Under slab		R
GLAZING (each type)		
Window to wall ratio	North	%
	East	%
	South	%
	West	%
Glass Type	U Factor	
	SHG	

Summary of data from approved ASHRAE 90.1 compliance sheets.



**Form F3 – Building Code Analysis**

Per IBC Chapter 16 and ASCE 7 – Structural tables may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

**STRUCTURAL DESIGN INFORMATION, AREA**

		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
OCCUPANCY CATEGORY		Table 1604.5	-	-	-	-	-
LIVE LOAD FOR EACH OCCUPANCY TYPE	Floor Live Load, F <sub>ll</sub>	Figure 1608.2 or ASCE 7	PSF	PSF	PSF	PSF	PSF
	Roof Live Load, R <sub>ll</sub>		20 PSF	PSF	PSF	PSF	PSF
MISCELLANEOUS LOADS BY SPECIAL USE AREA (ARCHITECTURAL, MECHANICAL, DATA CENTER, ETC.)	Ground Snow Load, p <sub>s</sub>	ASCE 7	10 PSF	PSF	PSF	PSF	PSF
			PSF	PSF	PSF	PSF	PSF

16 of 23

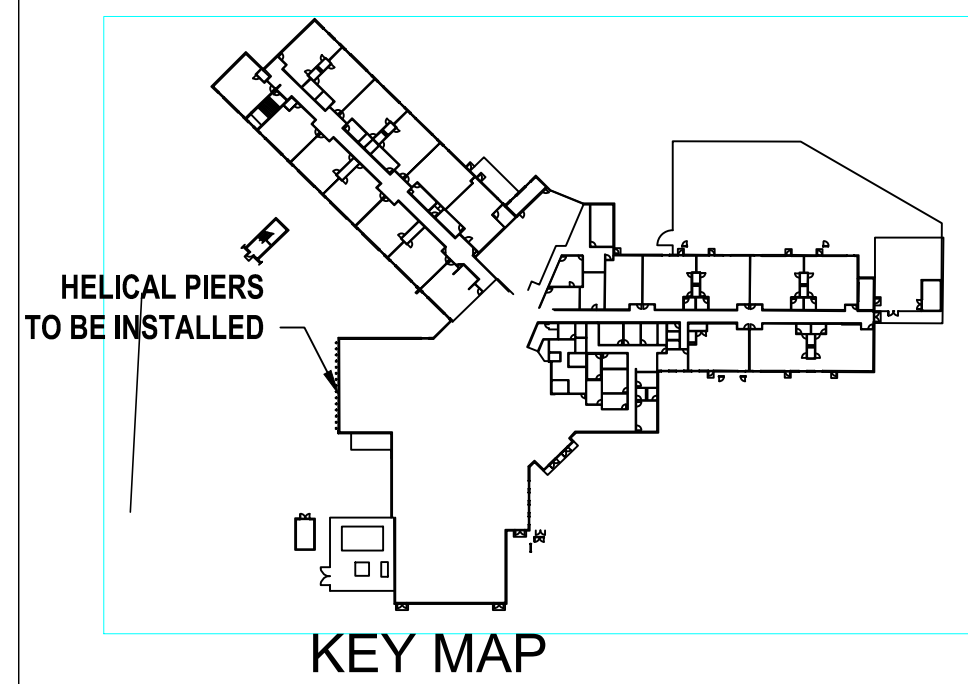
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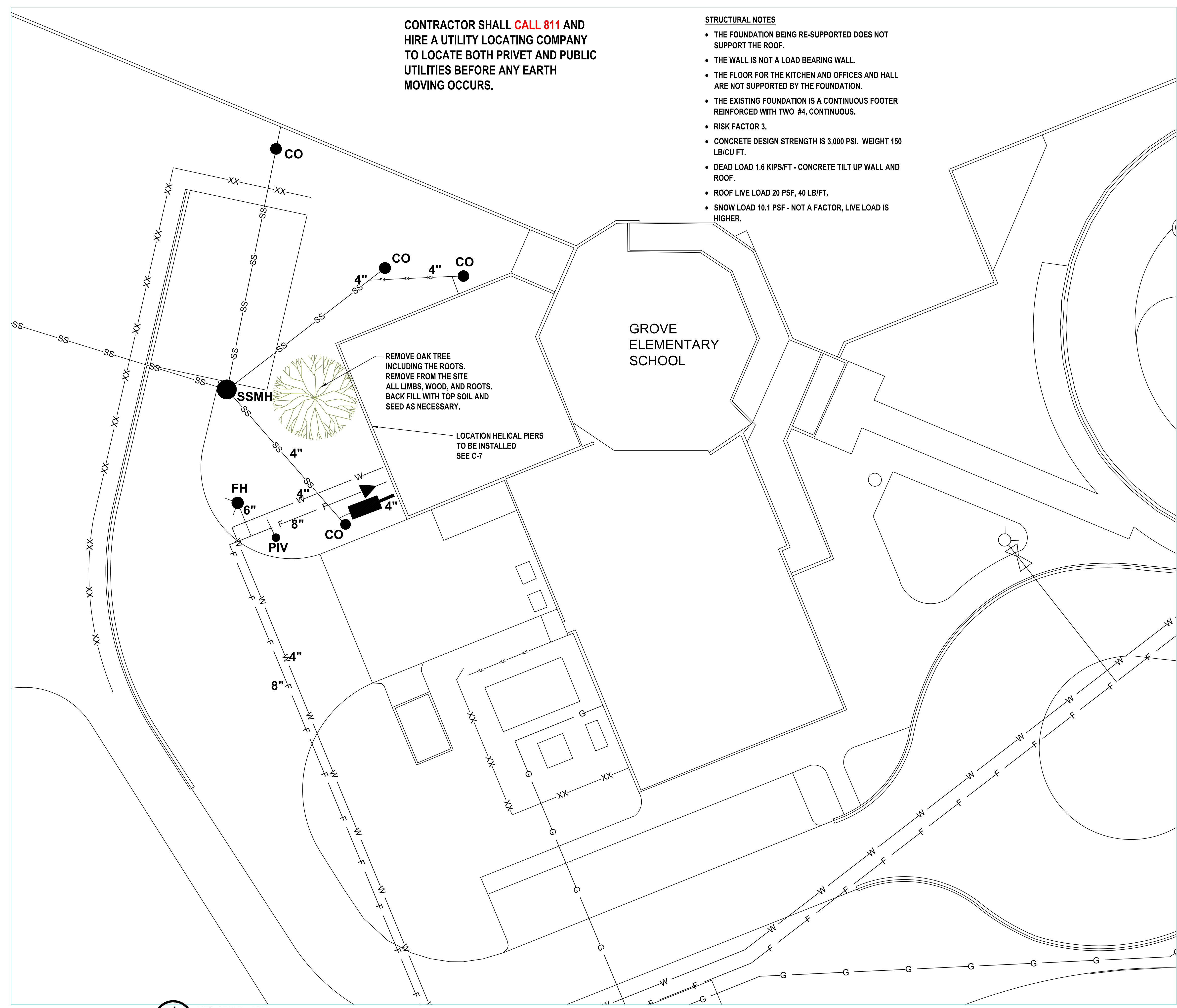
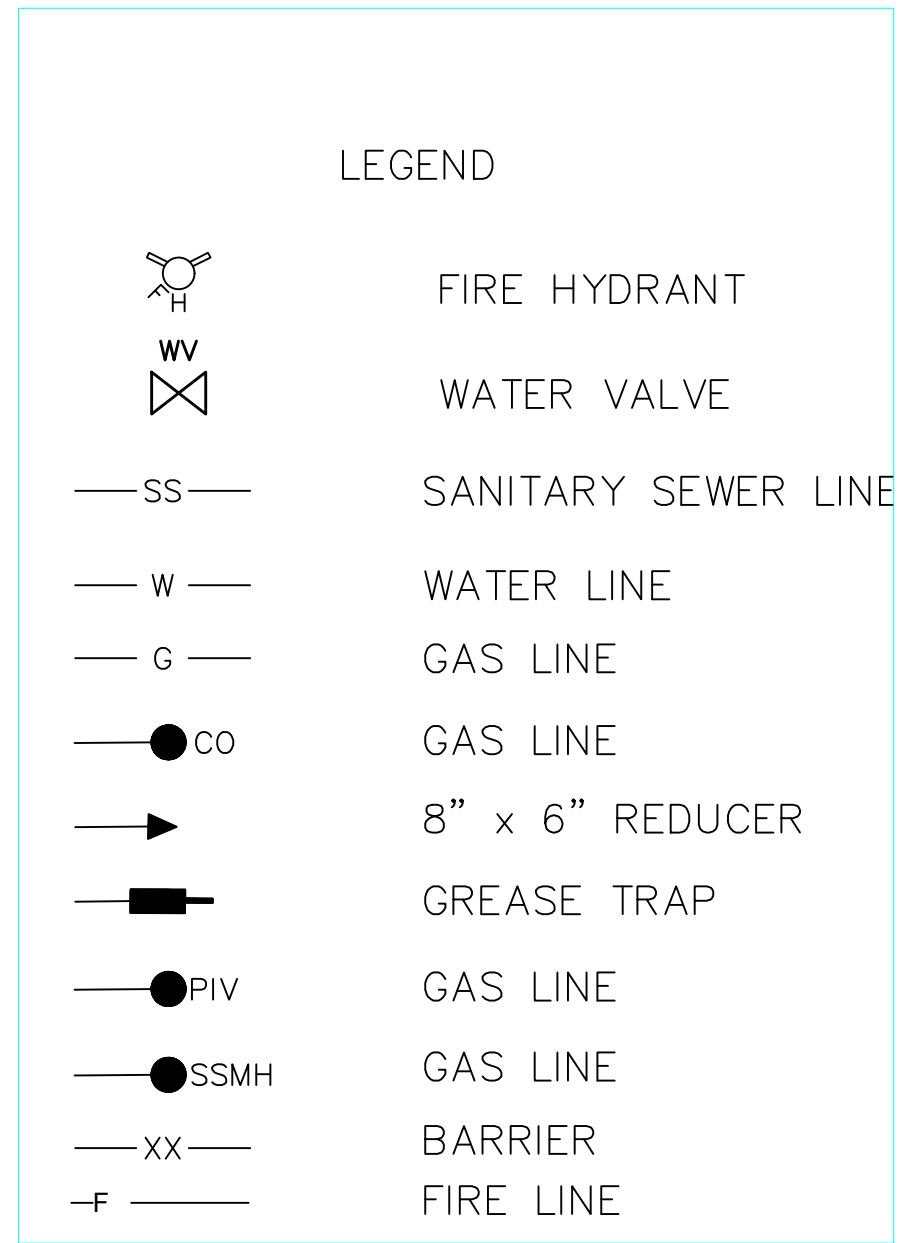






CONTRACTOR SHALL CALL 811 AND HIRE A UTILITY LOCATING COMPANY TO LOCATE BOTH PRIVET AND PUBLIC UTILITIES BEFORE ANY EARTH MOVING OCCURS.

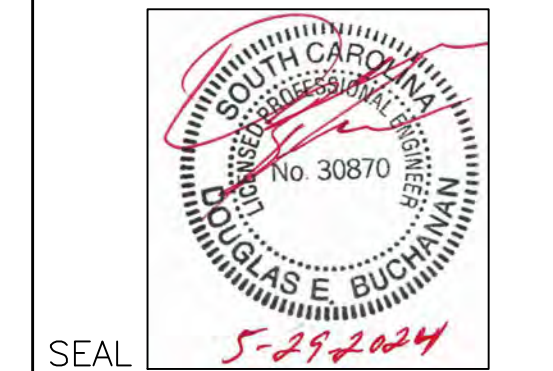
- STRUCTURAL NOTES**
- THE FOUNDATION BEING RE-SUPPORTED DOES NOT SUPPORT THE ROOF.
  - THE WALL IS NOT A LOAD BEARING WALL.
  - THE FLOOR FOR THE KITCHEN AND OFFICES AND HALL ARE NOT SUPPORTED BY THE FOUNDATION.
  - THE EXISTING FOUNDATION IS A CONTINUOUS FOOTER REINFORCED WITH TWO #4, CONTINUOUS.
  - RISK FACTOR 3.
  - CONCRETE DESIGN STRENGTH IS 3,000 PSI. WEIGHT 150 LB/CU FT.
  - DEAD LOAD 1.6 KIPS/FT - CONCRETE TILT UP WALL AND ROOF.
  - ROOF LIVE LOAD 20 PSF, 40 LB/FT.
  - SNOW LOAD 10.1 PSF - NOT A FACTOR, LIVE LOAD IS HIGHER.



**1** UTILITY PLAN  
**C-1.1** SCALE: 1" = 16'



P-1817  
 1001 LANCASTER AVE  
 MONROE, NC, 28112  
 702-282-0826



OWNER  
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**BUILDING ENVELOPE RESTORATION AND REPAIRS**  
**GROVE ELEMENTARY SCHOOL**  
**1220 OLD GROVE ROAD, PIEDMONT,**  
**SOUTH CAROLINA 29673**

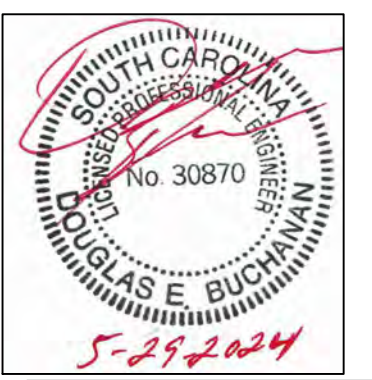
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**SITE AND UTILITY PLAN**  
 SHEET TITLE

**C-1.1**  
 PAGE NUMBER

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**1220 OLD GROVE ROAD, PIEDMONT,**  
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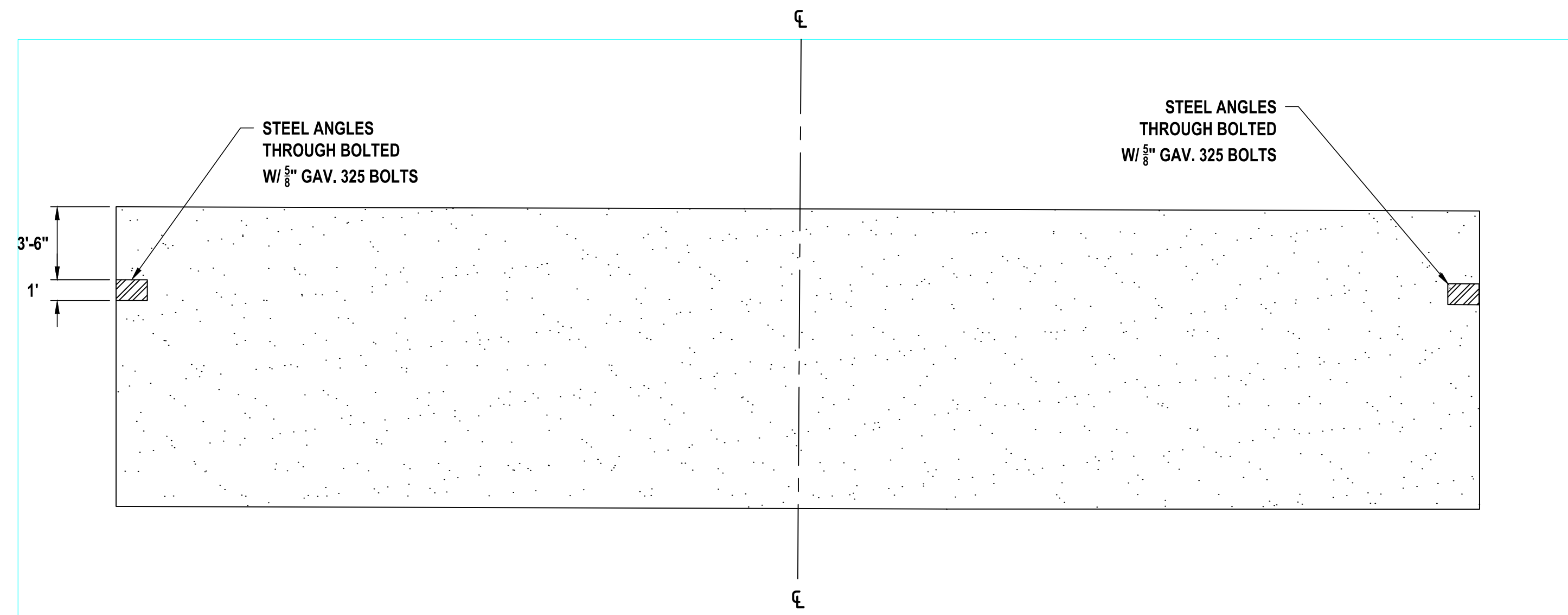
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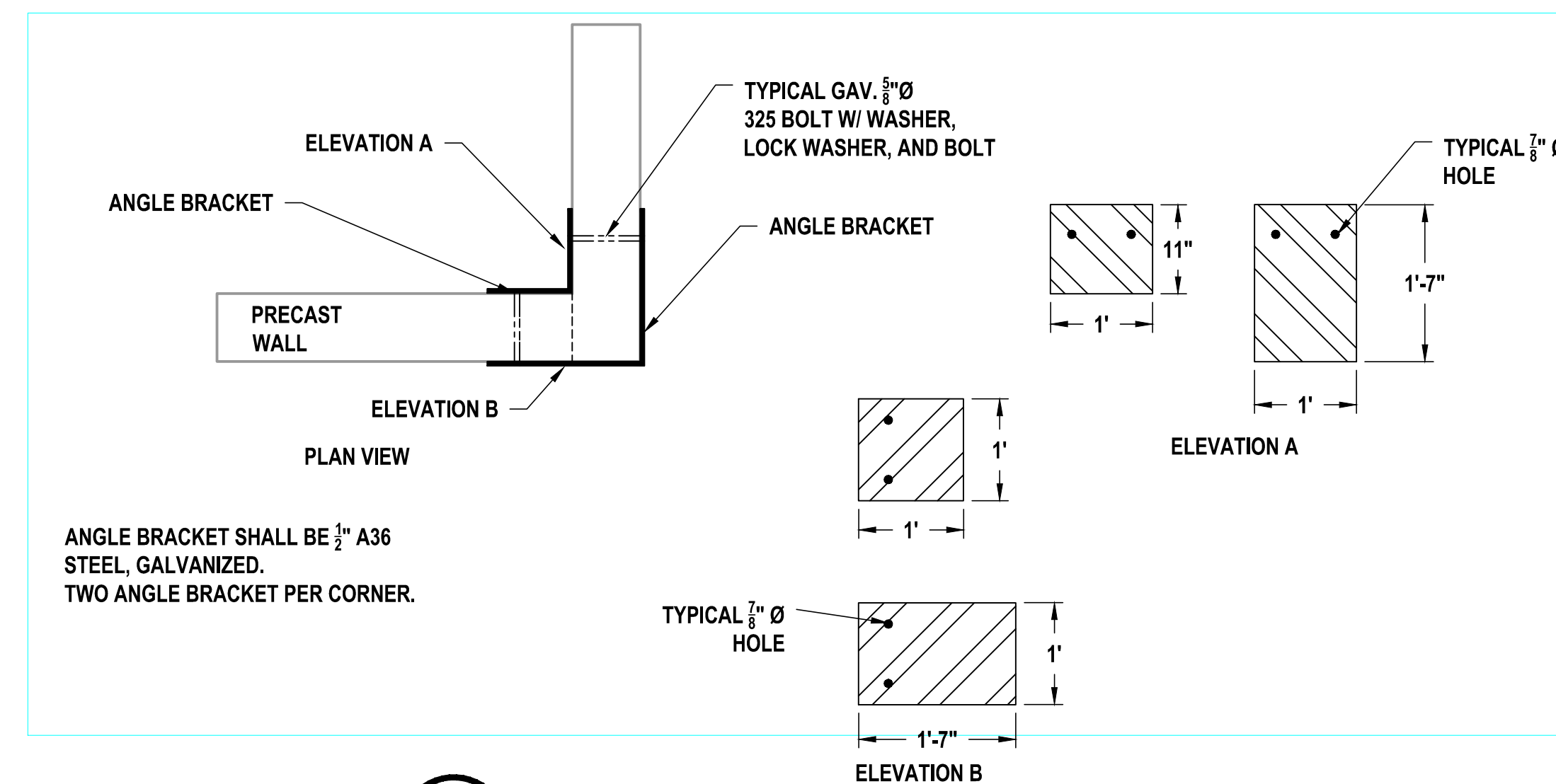
**HELICAL LAYOUT**  
SHEET TITLE

**C-2**

PAGE NUMBER



**2 ELEVATION**  
**C-2 SCALE: 1" = 5'-0"**

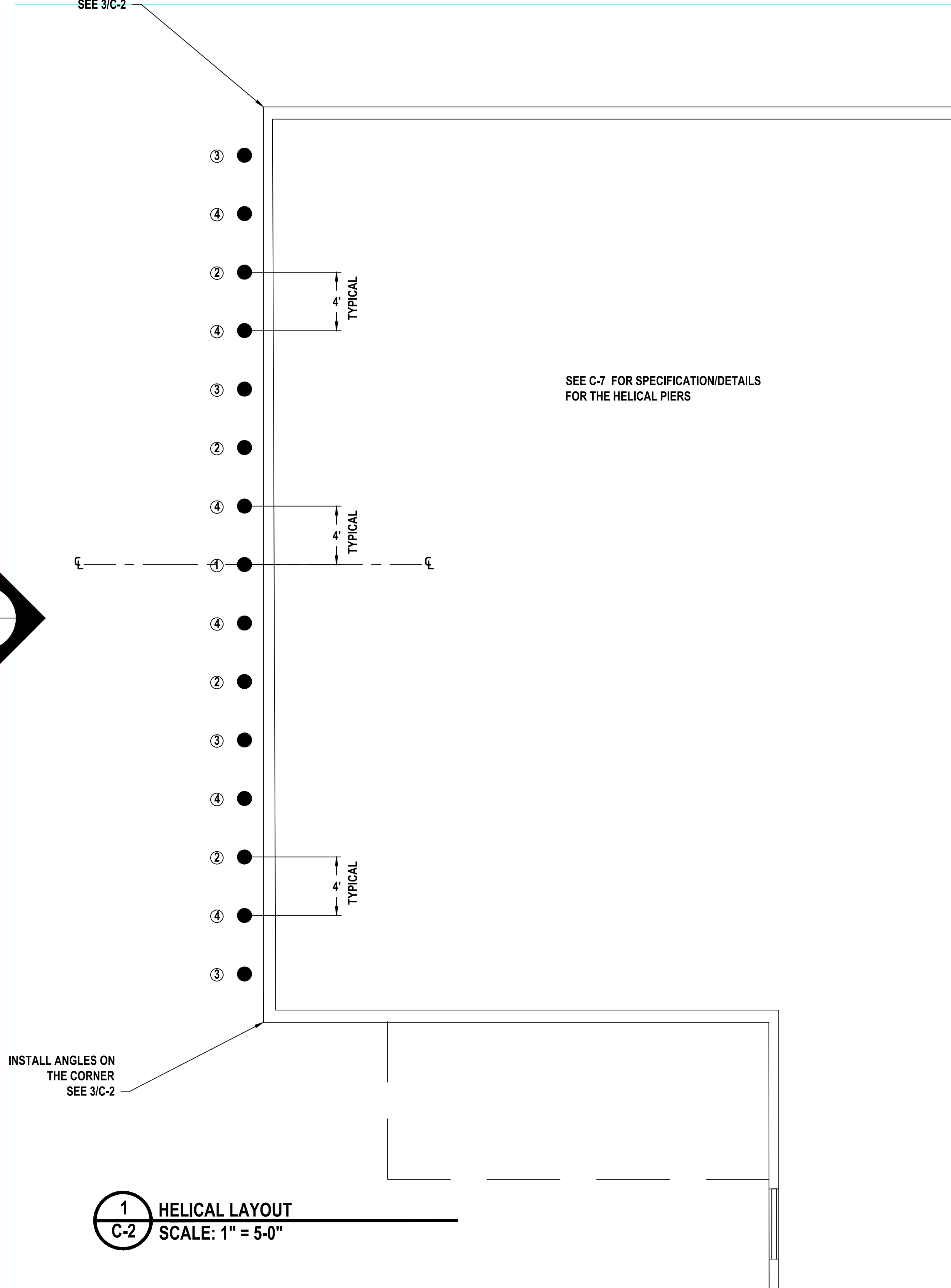


**3 ANGLE BRACES**  
**C-2 SCALE: 3/4" = 1'-0"**

**SEQUENCE OF INSTALLATION OF HELICAL PIERS**

1. THE PIERS ARE TO BE INSTALLED ACCORDING TO THE NUMBERING (1 IS FIRST AND FOLLOWED BY 2...)
2. ONCE THE PIER IS INSTALLED, THE BOTTLE JACK SHALL BE USED TO LIFT THE HELICAL PIER.
3. THE PIER(S) WITH THE SAME NUMBER SHALL BE LIFTED BEFORE MOVING ON TO THE NEXT SET OF NUMBERS.
4. EACH HELICAL PIER SHALL BE ABLE TO SUPPORT A MINIMUM OF 12 KIIPS. (THE HELICAL PIERS WILL BE RE-SUPPORTING A NON-LOAD BEARING WALL.)
5. AFTER ALL THE HELICAL PIERS ARE INSTALLED, THE CONTRACTOR SHALL VERIFY THAT ALL THE HELICAL PIERS HAVE THE SAME PRESSURE.
6. IN THE BASE BID, THE CONTRACTOR SHALL PLAN ON A DEPTH OF 40 FEET FOR EACH HELICAL PIER. THERE IS UNIT PRICING FOR INSTALLATION OF MORE THAN 40 FEET AND LESS THAN 40 FEET FOR EACH HELICAL PIER.
7. SPECIAL INSPECTIONS ARE REQUIRED, THE CONTRACTOR SHALL WORK WITH AND PROVIDE ACCESS TO THE TESTING COMPANY. THE CONTRACTOR SHALL MAINTAIN A LOG OF THE DEPTH OF THE HELICAL PIER AND THE TORQUE AT THE COMPLETION OF THE INSTALLATION OF EACH PIER.
8. THE CONTRACTOR SHALL RE-GRADE THE AREA TO BE SMOOTH AND RE-SEED THE AREA HE HAS DISTURBED.
9. DO NOT REPLACE THE SHEAR BOLTS WITH A HIGHER STRENGTH BOLT.
10. ANY SHAFT THAT IS CRACKED OR BROKEN, THE HELICAL PIER SHALL BE REPLACED NEXT TO THE SHAFT IS BROKEN OR CRACKED.
11. THE CREW INSTALLING THE HELICAL PIERS SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE.
12. ALL OSHA REQUIREMENTS SHALL BE FOLLOWED.
13. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING INSPECTORS WHEN WORK IS READY FOR INSPECTION. A MINIMUM OF 24-HOURS NOTICE SHALL BE PROVIDED.
14. THE GENERAL CONTRACTOR SHALL CREATE A FILE (THREE-RING BINDER) FOR THE SPECIAL INSPECTOR'S REPORTS.
15. A SPECIAL INSPECTOR SHALL BE ON-SITE DURING THE CONSTRUCTION OF ALL PIERS, PILES AND PRESSURE-INJECTED FOOTINGS. WORK SHALL BE IN ACCORDANCE WITH THE APPROVED DRAWINGS AND AS SPECIFIED BY THE GEOTECHNICAL ENGINEER OF RECORD.
16. THE INSPECTOR OF RECORD SHALL MAINTAIN A DISCREPANCY LOG AND SUBMIT A WEEKLY REPORT TO THE AOR/EOR AND THE CONTRACTOR UNTIL ALL WORK REQUIRING INSPECTIONS IS COMPLETE.
17. WHEN THE WORK REQUIRING INSPECTIONS IS COMPLETED AND ALL NONCONFORMING ITEMS HAVE BEEN RESOLVED, THE GENERAL CONTRACTOR SHALL NOTIFY THE INSPECTOR TO SUBMIT A COMPLETION REPORT TO OSF, AOR/EOR, AND GENERAL CONTRACTOR.

INSTALL ANGLES ON THE CORNER SEE 3/C-2

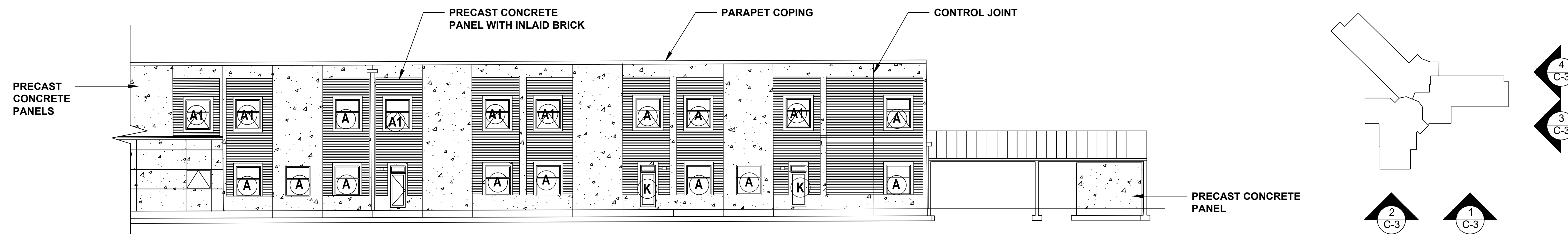


**1 HELICAL LAYOUT**  
**C-2 SCALE: 1" = 5'-0"**

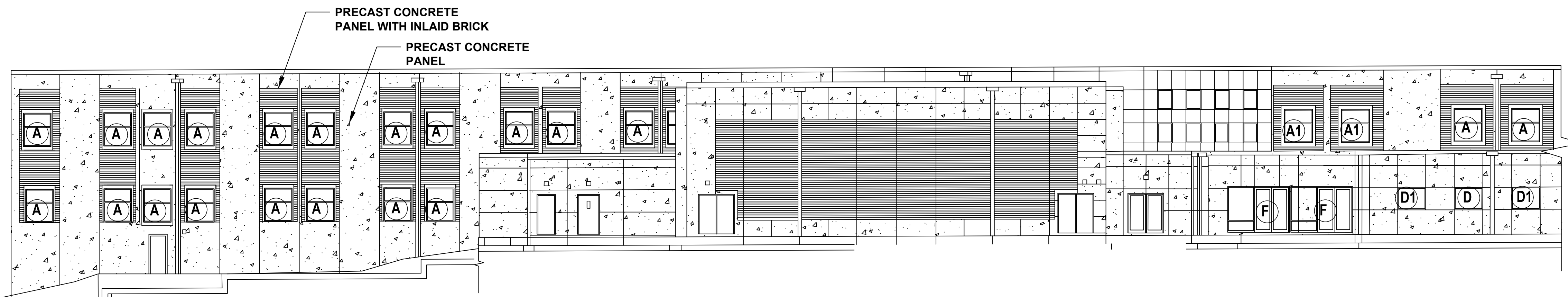
SEE C-7 FOR SPECIFICATION/DETAILS FOR THE HELICAL PIERS

INSTALL ANGLES ON THE CORNER SEE 3/C-2

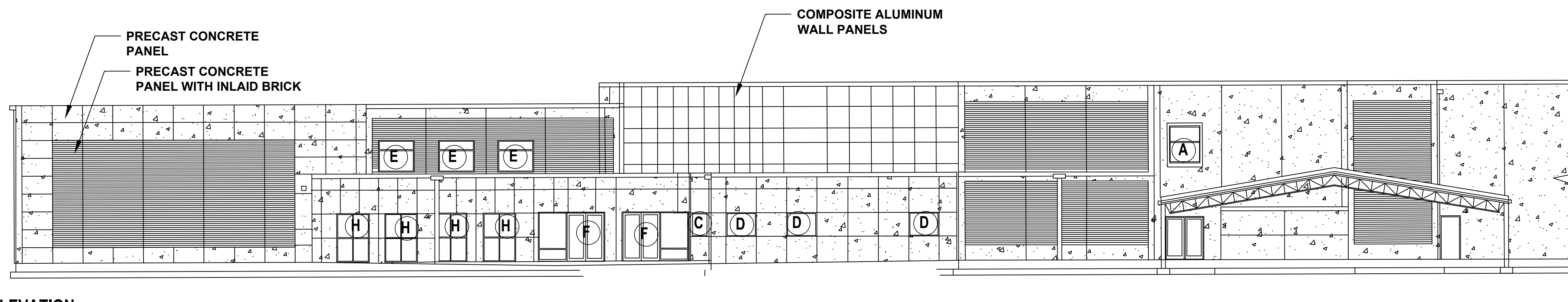
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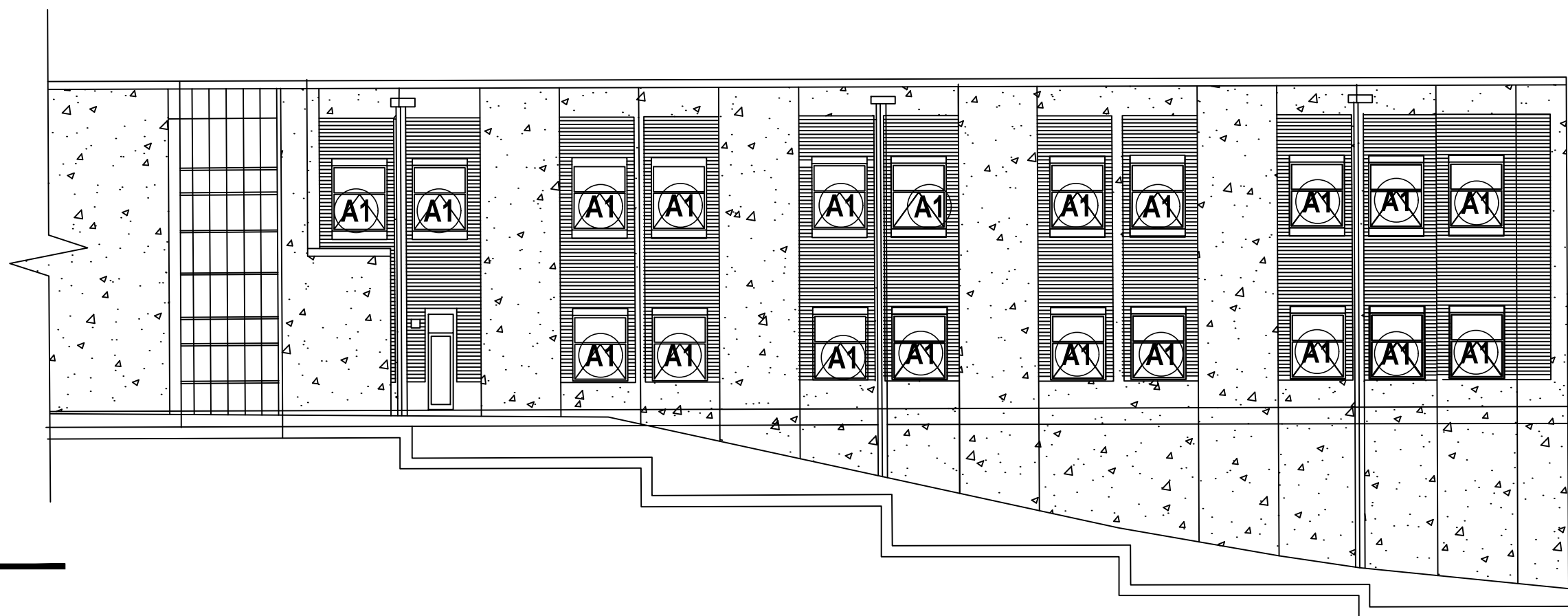
1 SOUTH ELEVATION  
C-3 SCALE: 1" = 16'



2 SOUTH ELEVATION  
C-3 SCALE: 1" = 16'

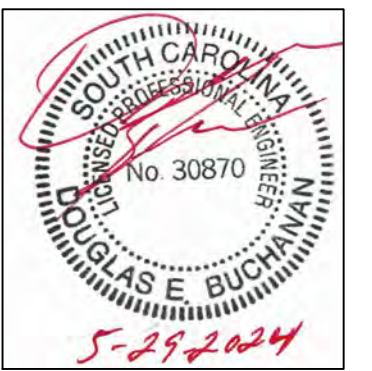


3 EAST ELEVATION  
C-3 SCALE: 1" = 16'



4 EAST ELEVATION  
C-3 SCALE: 1" = 16'

- NOTE:
- REMOVE THE EXISTING CAULK AROUND ALL WINDOWS AND REINSTALL BACKER RODS AND CAULK AROUND THE WINDOW FRAMES.
  - REMOVE THE EXISTING CAULK AT ALL CONTROL JOINTS AND REINSTALL BACKER RODS AND CAULK AROUND AT THE JOINTS.



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1220 OLD GROVE ROAD, PIEDMONT,  
SOUTH CAROLINA 29673**

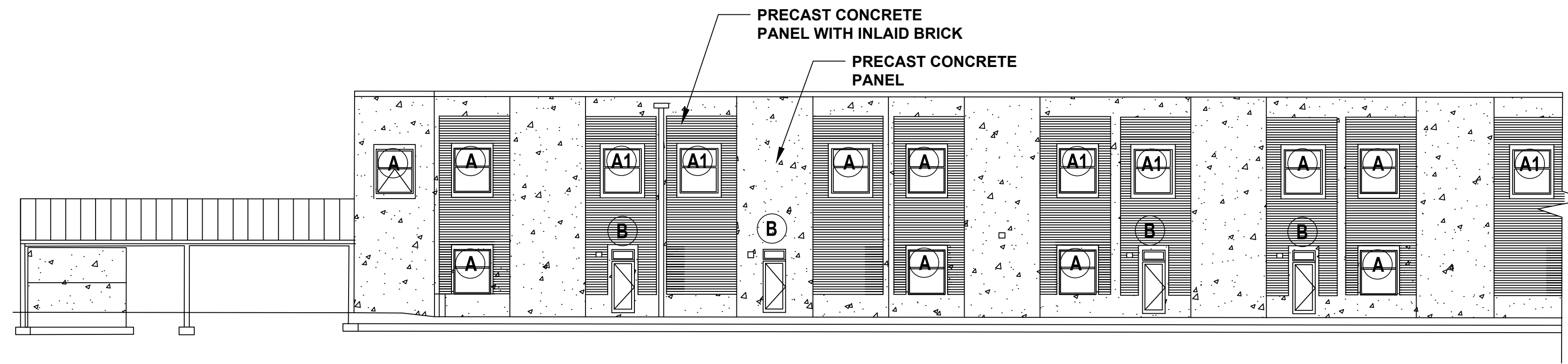
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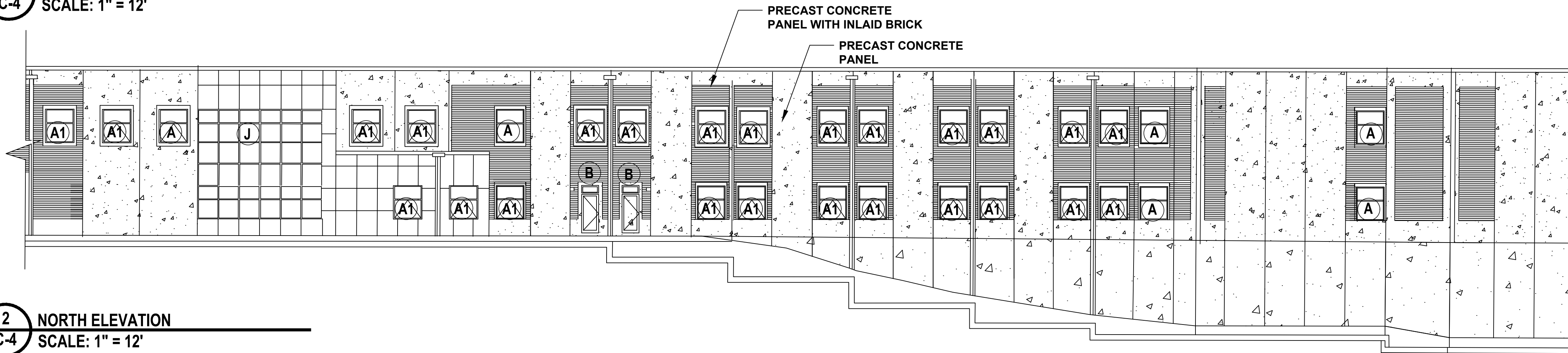
**ELEVATIONS**  
SHEET TITLE

**C-3**  
PAGE NUMBER

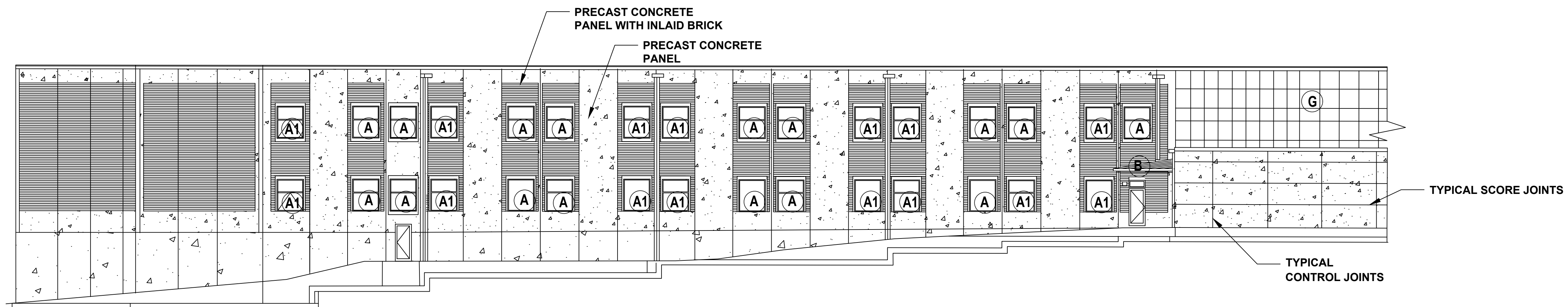
FOR CONSTRUCTION



1 NORTH ELEVATION  
C-4 SCALE: 1" = 12'

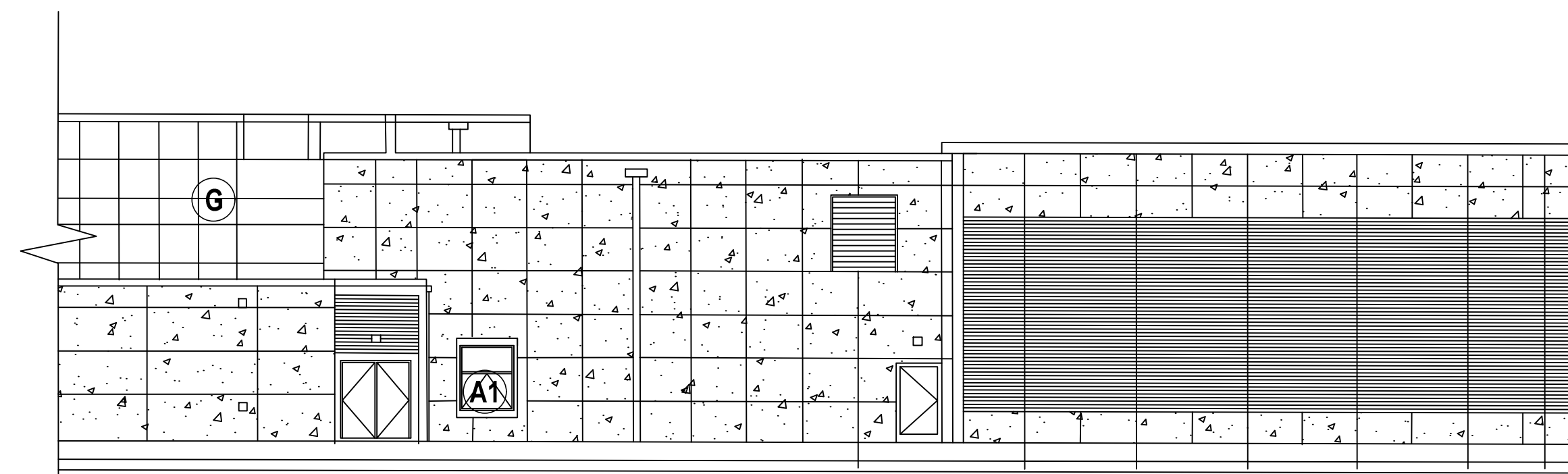


2 NORTH ELEVATION  
C-4 SCALE: 1" = 12'



3 WEST ELEVATION  
C-4 SCALE: 1" = 12'

- NOTE:
- REMOVE THE EXISTING CAULK AROUND ALL WINDOWS AND REINSTALL BACKER RODS AND CAULK AROUND THE WINDOW FRAMES.
  - REMOVE THE EXISTING CAULK AT ALL CONTROL JOINTS AND REINSTALL BACKER RODS AND CAULK AROUND AT THE JOINTS.



4 WEST ELEVATION  
C-4 SCALE: 1" = 12'



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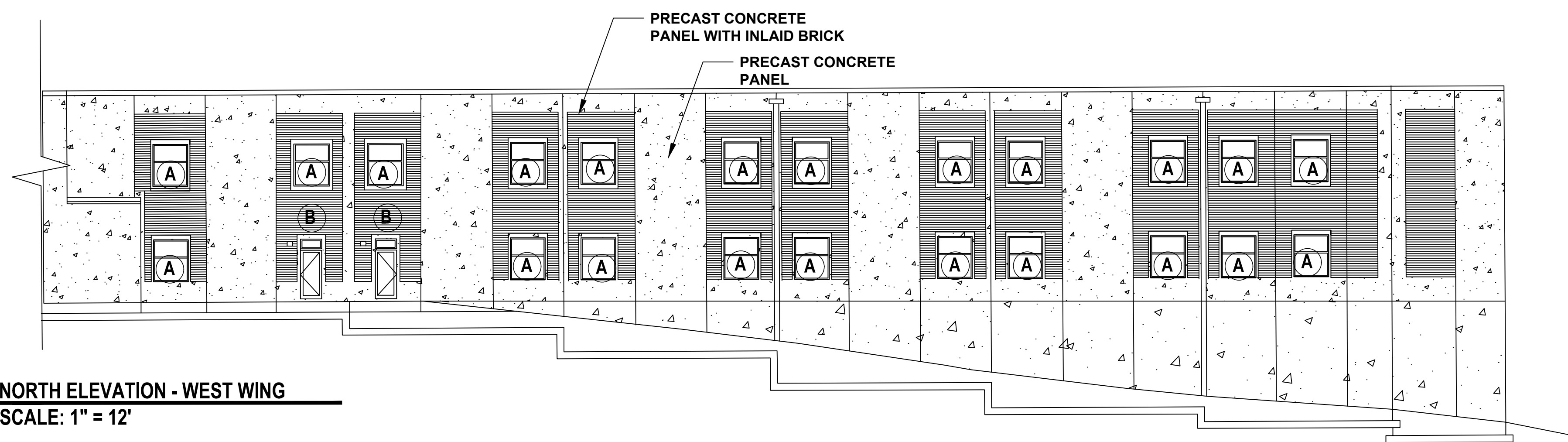
**BUILDING ENVELOPE RESTORATION  
AND REPAIRS  
GROVE ELEMENTARY SCHOOL  
1220 OLD GROVE ROAD, PIEDMONT,  
SOUTH CAROLINA 29673**

MARK	DATE	DESCRIPTION

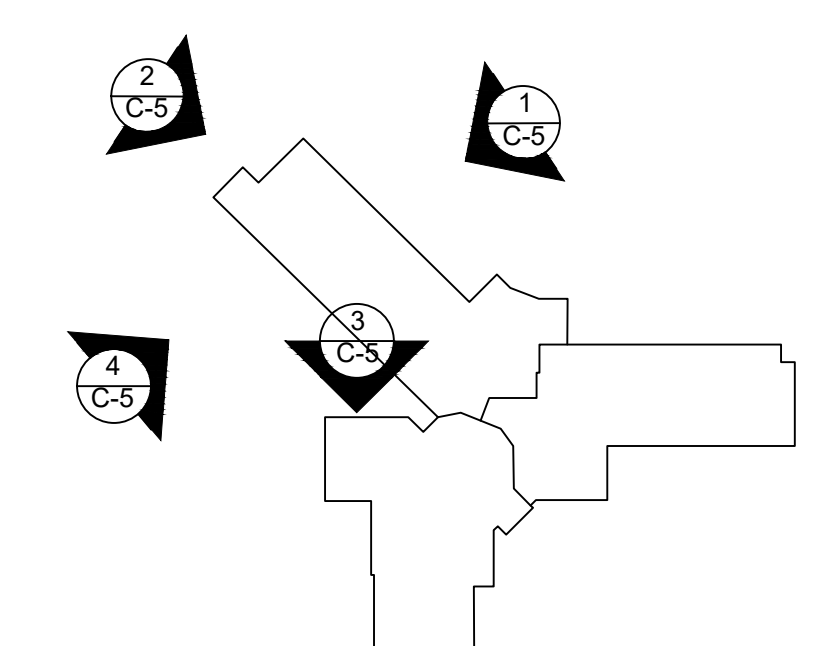
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**ELEVATIONS**  
SHEET TITLE

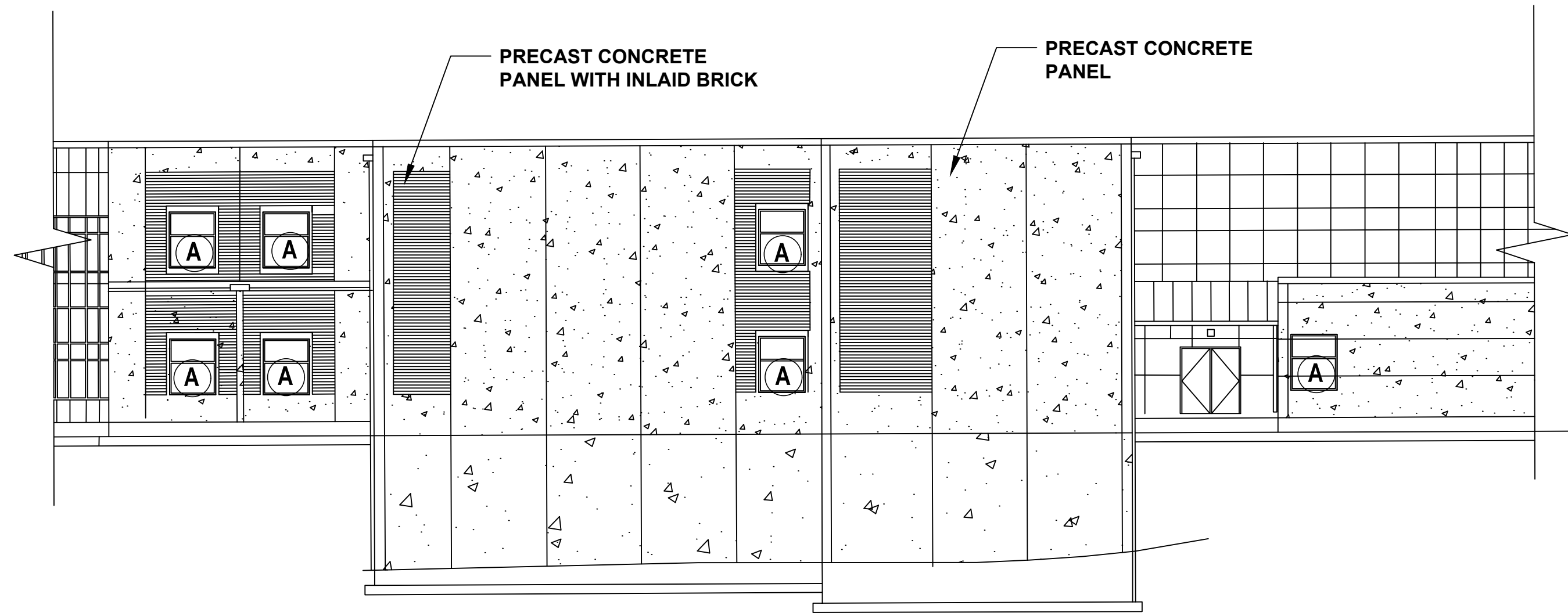
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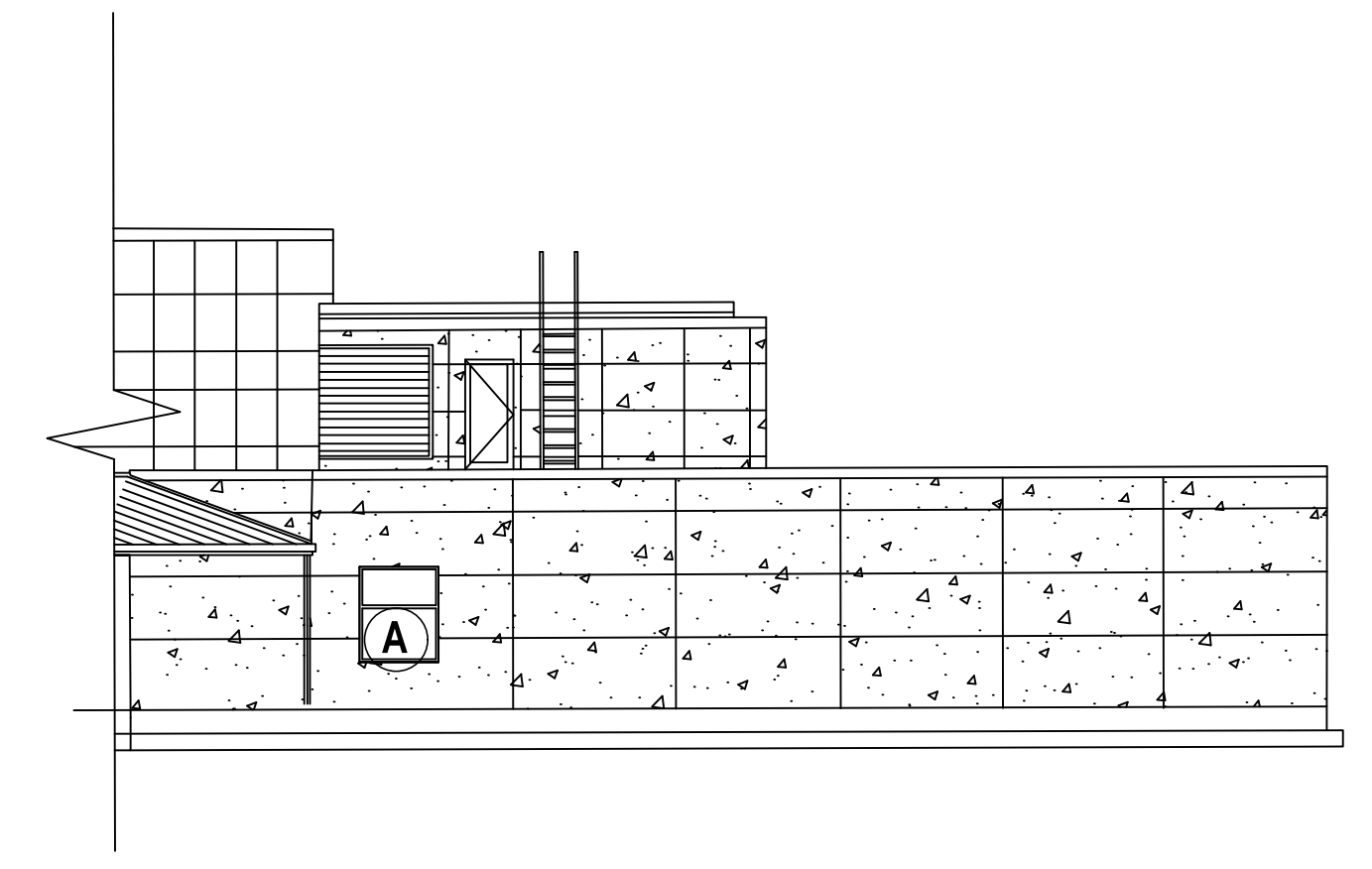
1 NORTH ELEVATION - WEST WING  
C-5 SCALE: 1" = 12'



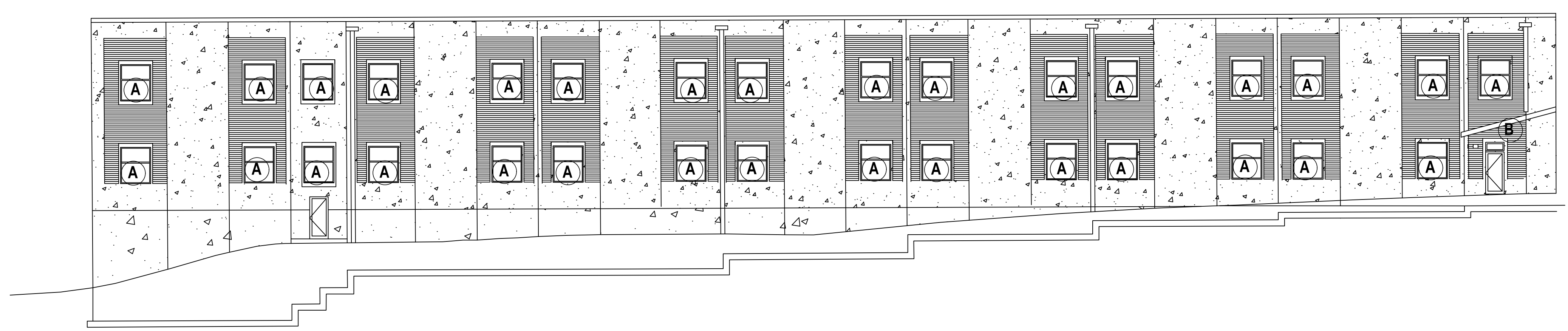
NOTE:  
 • REMOVE THE EXISTING CAULK AROUND ALL WINDOWS AND REINSTALL BACKER RODS AND CAULK AROUND THE WINDOW FRAMES.  
 • REMOVE THE EXISTING CAULK AT ALL CONTROL JOINTS AND REINSTALL BACKER RODS AND CAULK AROUND AT THE JOINTS.



2 WEST ELEVATION - WEST WING  
C-5 SCALE: 1" = 12'



3 NORTH ELEVATION - KITCHEN  
C-5 SCALE: 1" = 12'



4 SOUTH ELEVATION - WEST WING  
C-5 SCALE: 1" = 12'

**WOLF TRAIL™**  
 ENGINEERING  
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SEAL 5-29-2024

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 AND REPAIRS**  
**GROVE ELEMENTARY SCHOOL**  
**1220 OLD GROVE ROAD, PIEDMONT,**  
**SOUTH CAROLINA 29673**

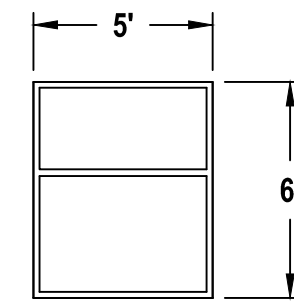
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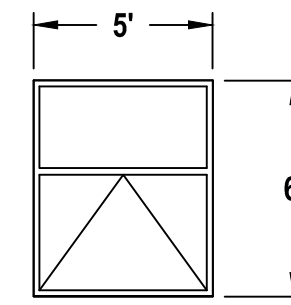
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 SHEET TITLE

**C-5**  
 PAGE NUMBER

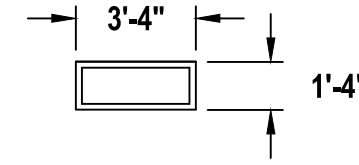
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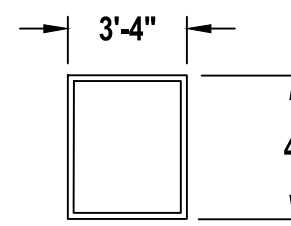
**A**



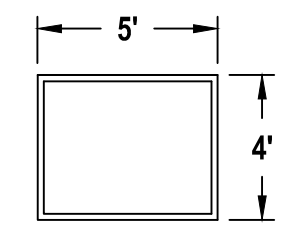
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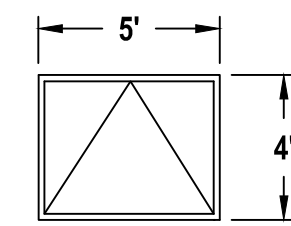
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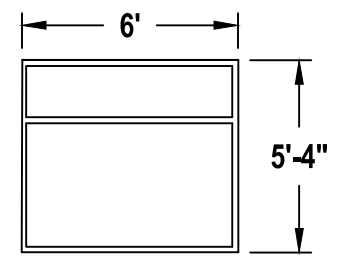
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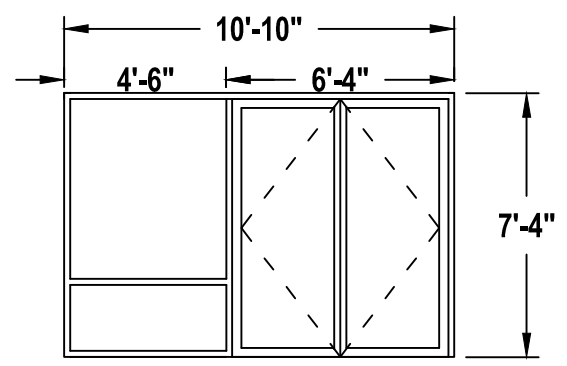
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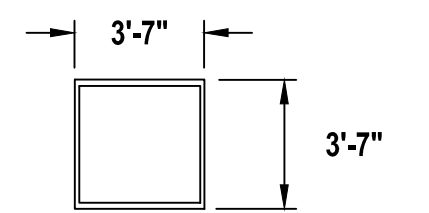
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**E**



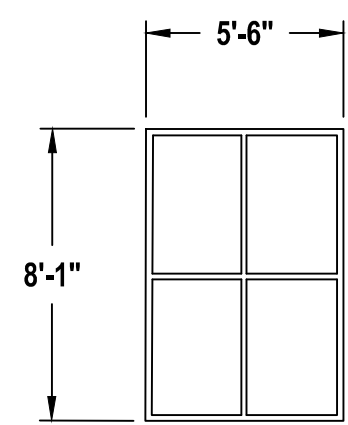
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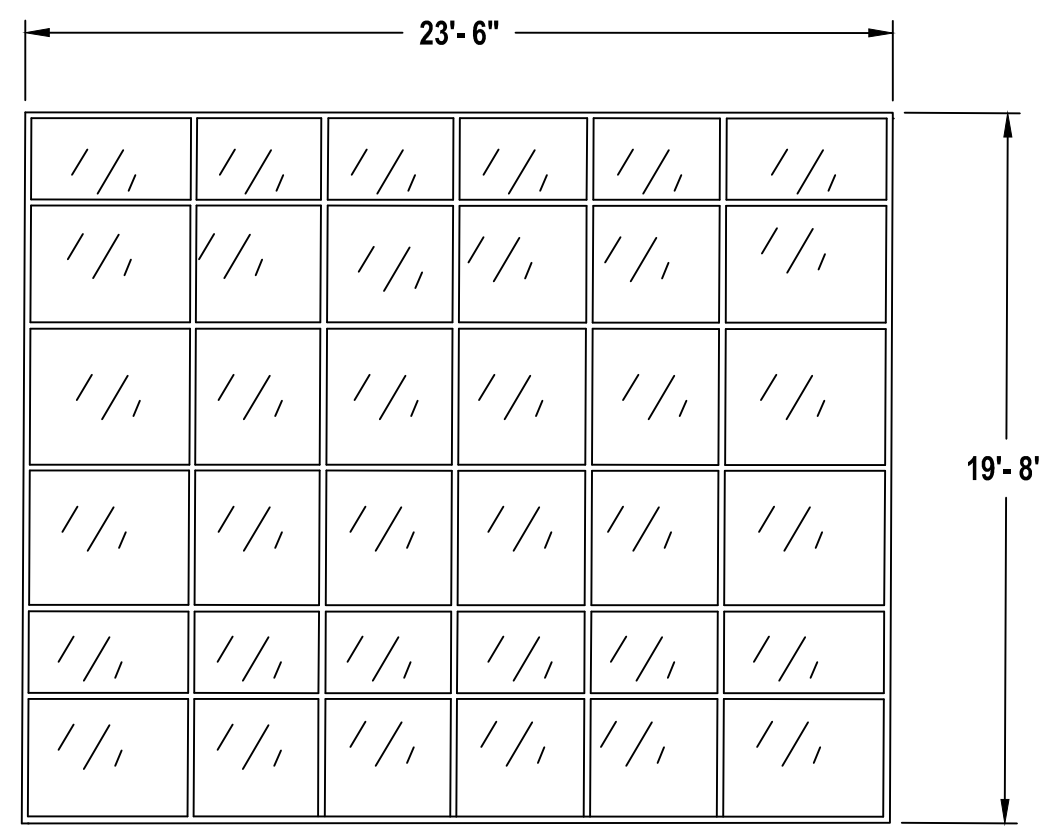
**G**

CONTRACTOR TO REPLACE THE EXISTING BACKER ROD AND CAULK AROUND THE WINDOW FRAMES AND DOOR FRAMES AND ALUMINUM PANELS. THE JOINTS BETWEEN THE ALUMINUM PANELS WILL BE RE-CAULKED.  
CONTRACTOR TO VERIFY THE QUANTITY AND SIZE OF THE WINDOWS, LOUVERS, ALUMINUM PANELS, AND DOOR.

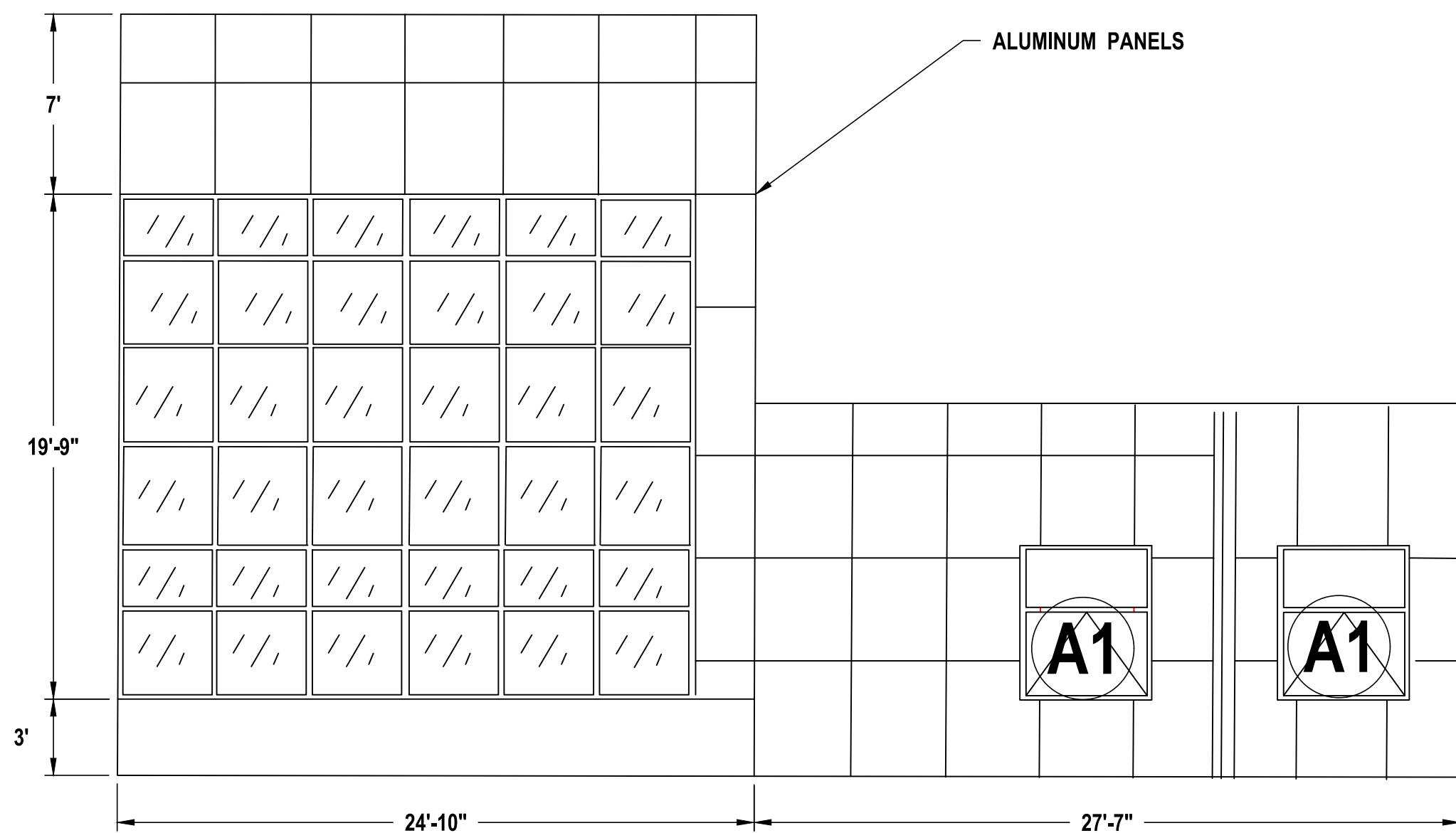
NOT ALL OF THE ALUMINUM PANELS ARE SHOWN ON THIS DRAWING.



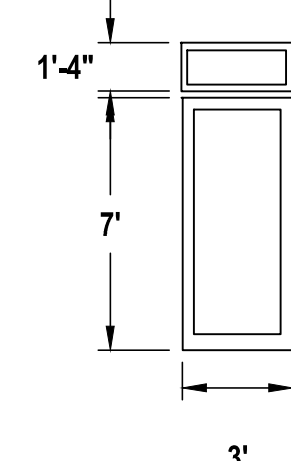
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**J**



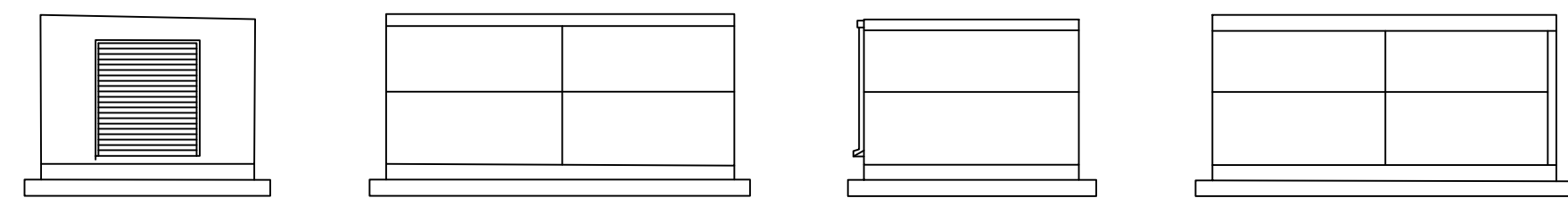
**J**



**K**

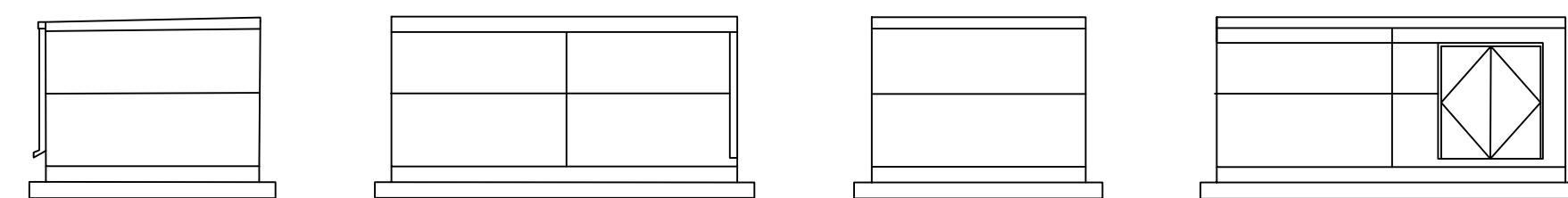
**1 WINDOW ELEVATION**  
C-6 SCALE:  $\frac{3}{16}$ " = 1'-0"

CONTRACTOR TO REPLACE THE EXISTING CAULKING AND BACKER ROD IN THE EXPANSION JOINTS AND AROUND THE LOUVER AND CONSTRUCTION JOINTS.

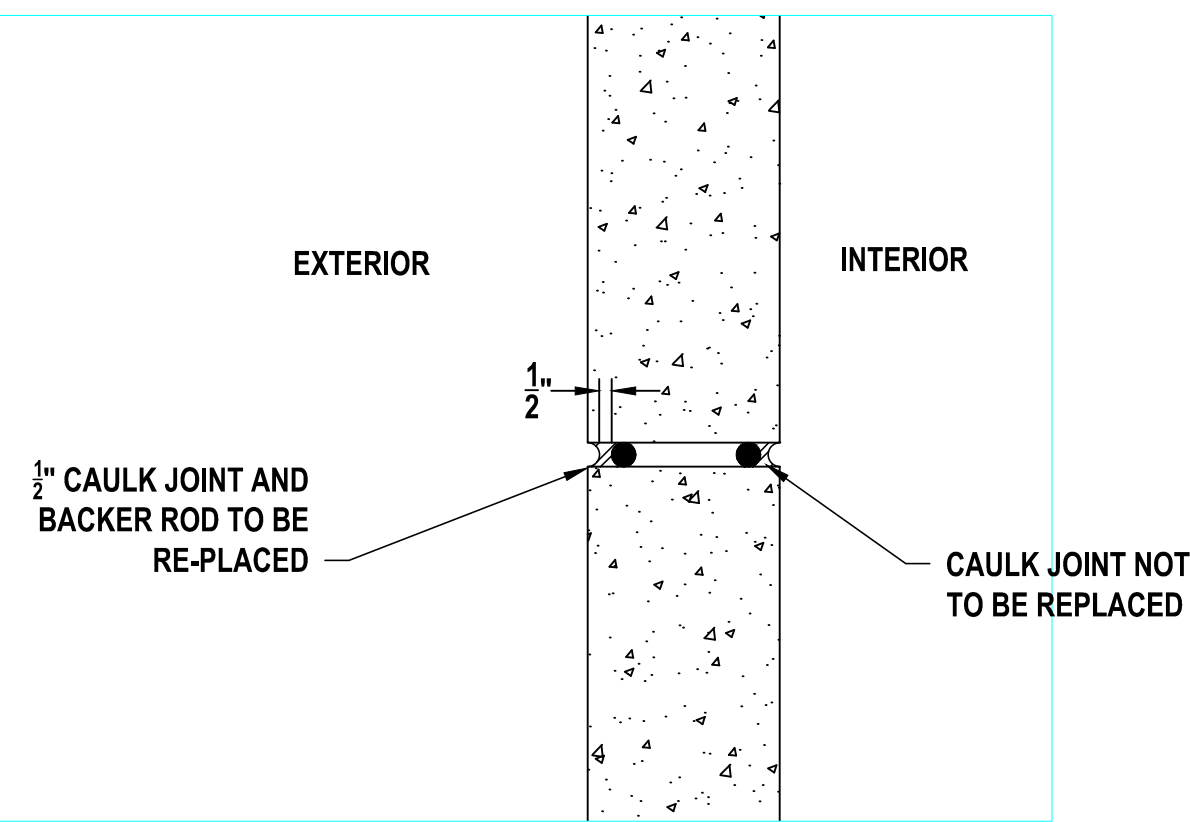


**2 LAWN EQUIPMENT STORAGE ELEVATION**  
C-6 SCALE:  $\frac{3}{16}$ " = 1'-0"

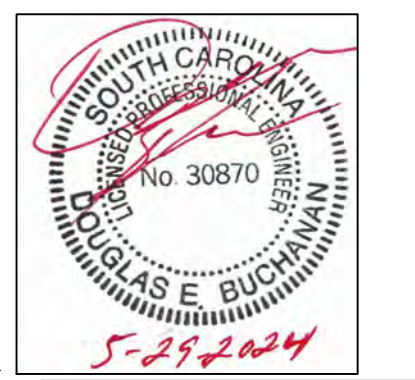
CONTRACTOR TO REPLACE THE EXISTING CAULKING AND BACKER ROD IN THE EXPANSION JOINTS AND AROUND THE LOUVER AND CONSTRUCTION JOINTS AND DOORS AND WINDOW.



**3 KINDERGARTEN STORAGE - ELEVATION**  
C-6 SCALE: 1" = 5'-4"



**4 TYPICAL CAULK JOINT**  
C-6 SCALE:  $1\frac{1}{2}$ " = 1'-0"



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**1220 OLD GROVE ROAD, PIEDMONT,**  
**SOUTH CAROLINA 29673**

MARK	DATE	DESCRIPTION

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**WINDOW DETAILS**  
SHEET TITLE

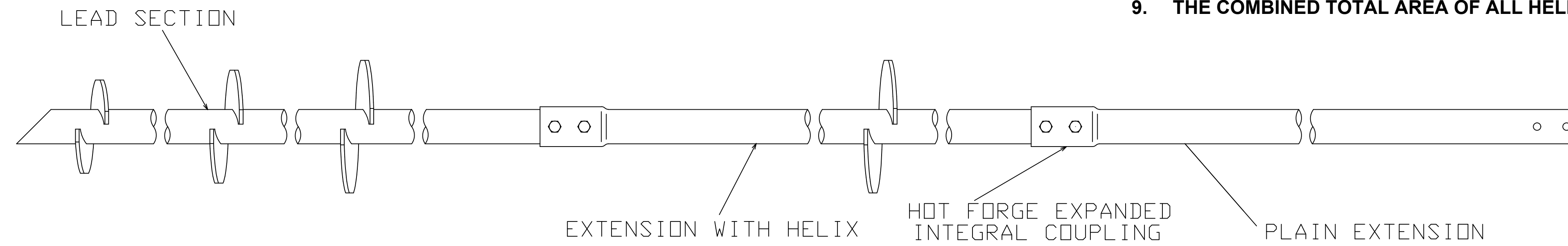
**C-6**  
PAGE NUMBER

FOR CONSTRUCTION

TORQUE STRENGTH RATING- 7,000 FT-LB  
 ULTIMATE CAPACITY\* (TENSION/COMPRESSION) 60 KIP  
 \*BASED ON TORQUE FACTOR OF (Kt)=9

**HELICAL PILE NOTES**

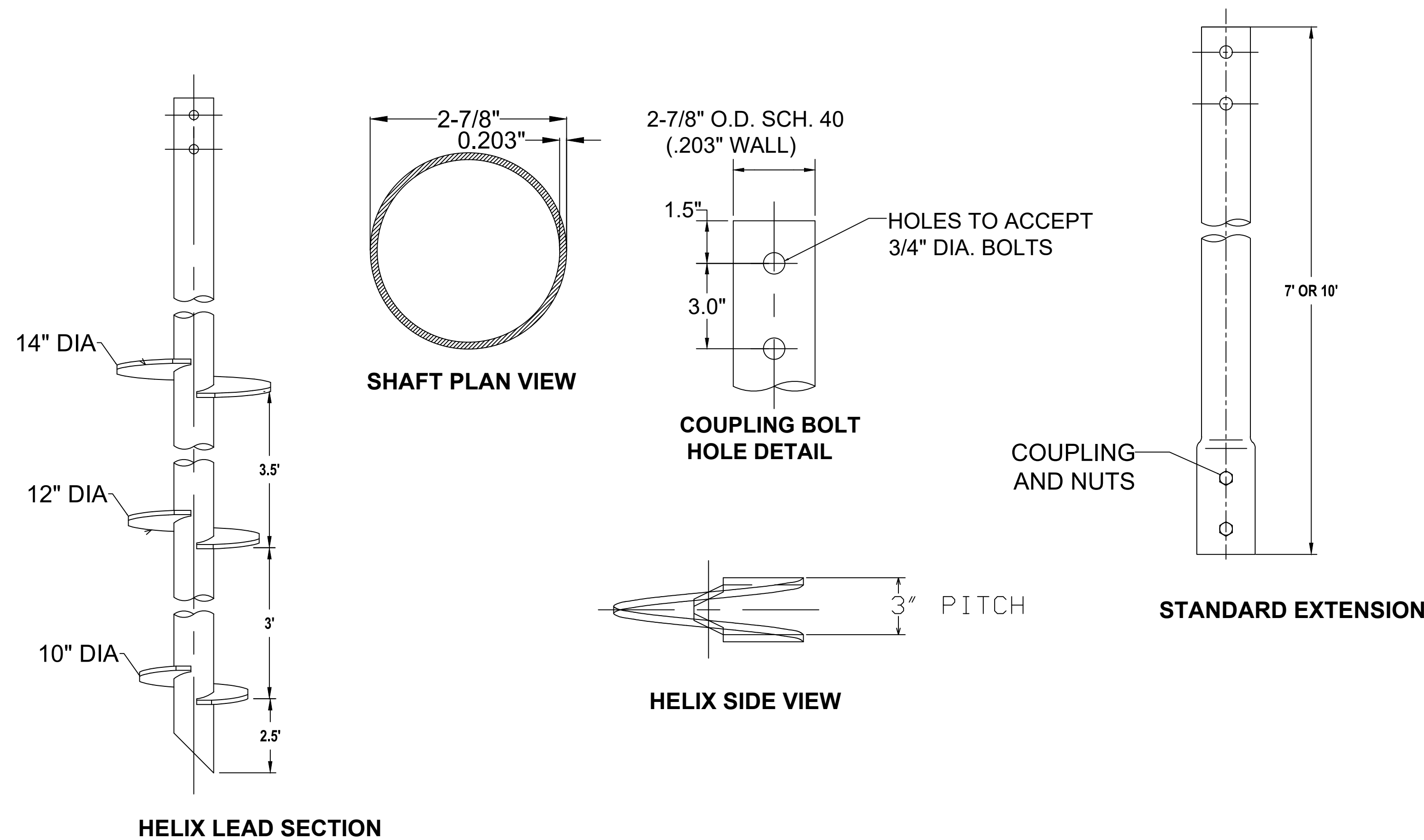
1. HOT DIP GALVANIZED PER ASTM A153-(LATEST REVISION).
2. LEAD AND EXTENSION SECTION LENGTHS AND HELIX SPACINGS ARE NOMINAL.
3. NOMINAL SPACING BETWEEN HELIX PLATES IS THREE TIMES THE DIAMETER OF THE LOWER HELIX.
4. HELIX MATERIAL LOW CARBON STEEL MEETING THE GENERAL REQUIREMENTS OF AISI, OR ASTM A572, A656, OR A1018; 3/8" THICK.
5. PIPE SHAFT MATERIAL 2.5" NOMINAL, SCHEDULE 40 WALL THICKNESS PER ASTM A500 GRADE B MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
6. ALL WELDING TO BE DONE BY WELDERS CERTIFIED UNDER SECTION 5 OF THE AWS CODE D1.1
7. THE LEAD SECTION SHALL BE AT LEAST 10 FT LONG.
8. THE LEAD SECTION SHALL BE AT LEAST 10 FT LONG.
9. THE COMBINED TOTAL AREA OF ALL HELIX PLATES SHALL BE APPROXIMATELY 2.35SQFT



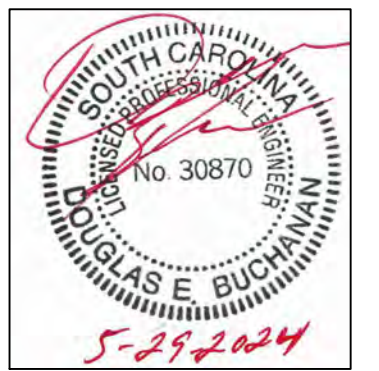
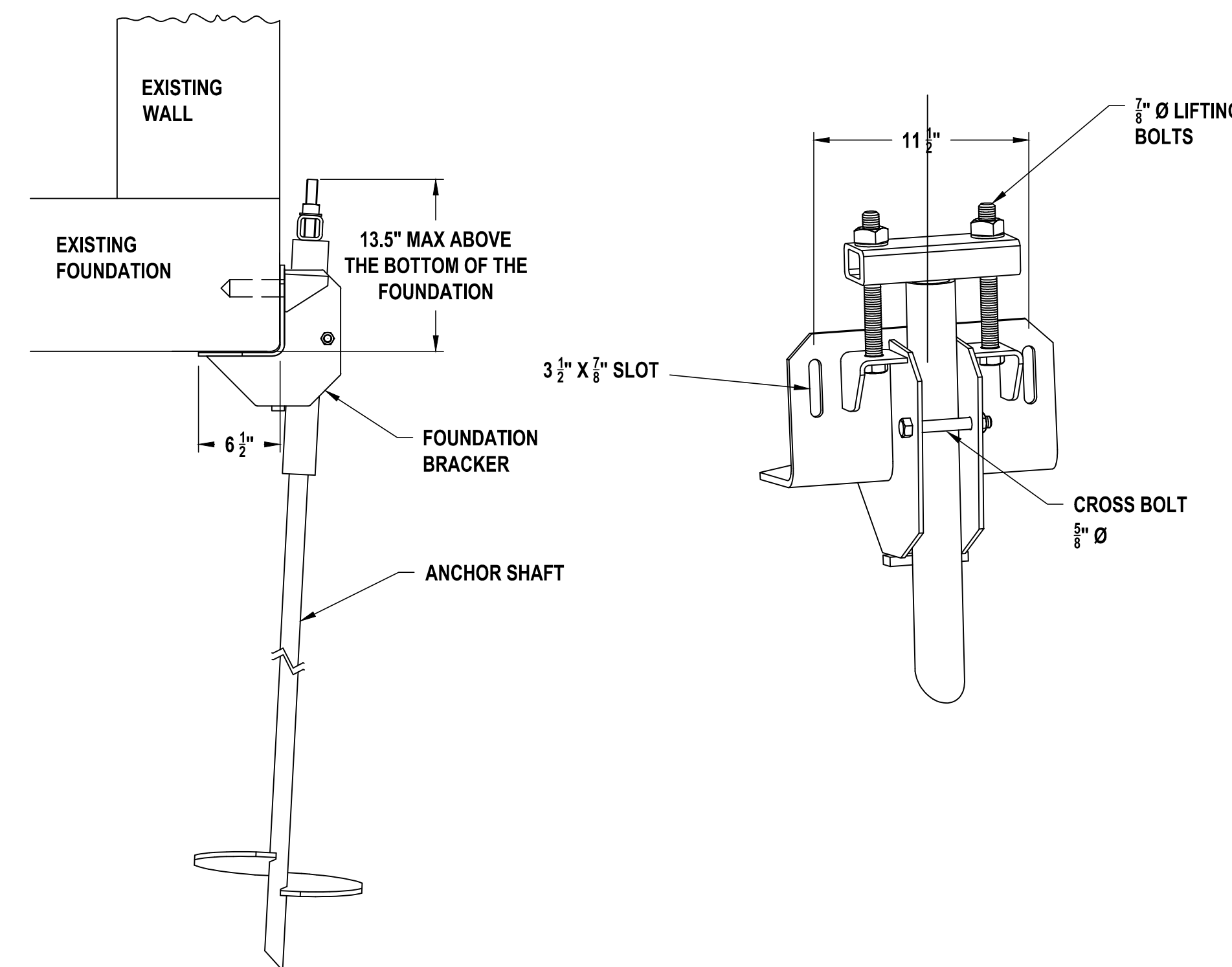
**TYPICAL PILE ASSEMBLY**

**UNDERPINNING BRACKET NOTES**

1. HOT DIP GALVANIZE PER ASTM A153-(LATEST REVISION).
2. ASSEMBLE COMPLETE AS SHOWN IN SIDE VIEW.
3. THE NUTS ON THE LIFTING BOLTS AND CROSS BOLTS MUST BE TIGHTENED TO ACHIEVE A SNUG-TIGHT CONDITION AS DEFINED IN SECTION J3 OF AISC 360-05; AS A MINIMUM, NUTS MUST BE TIGHTENED 1/4 TURN BEYOND HAND TIGHT CONDITION. DO NOT EXCEED 165 FT-LB OF TORQUE ON LIFTING BOLTS DURING STABILIZATION OR LOAD LOCK OFF.
4. RECOMMENDED ANCHOR SHAFT CUTOFF LEVEL ABOVE THE BOTTOM OF THE FOOTING IS 10" TO 11" FOR MAXIMUM LIFT DISTANCE.
5. MATERIAL SPECIFICATIONS:  
 BRACKET BODY : PER ASTM A36 AND ASTM A570 GR. 50.  
 T-PIPE TUBE : HOT ROLLED MECHANICAL TUBING PER ASTM A500.  
 T-PIPE SHAFT: HOT ROLLED ROUND CORNERED SQUARE (RCS) SOLID STEEL BAR PER ASTM A29: MIN YIELD 70 KSI.  
 LIFTING BOLTS : HEX HEAD BOLT PER ASTM A325, TYPE 1.  
 CROSS BOLT : HEX HEAD BOLT PER ASTM A325, TYPE 1..
7. SEE ICC-ES EVALUATION SERVICE, INC., EVALUATION REPORT NO. ESR-2794 FOR STRENGTH VALUES AND/OR CONDITIONS OF USE CONCERNING INFORMATION PRESENTED ON THIS DRAWING.



**1** TYPICAL SHAFT AND HELIX DETAIL  
**C-7** SCALE: NIL



SEAL

School Dist of  
 Greenville County  
 301 E Camperdown Way  
 Greenville, SC 29601

OWNER

**BUILDING ENVELOPE RESTORATION  
 AND REPAIRS**  
**GROVE ELEMENTARY SCHOOL**  
**1220 OLD GROVE ROAD, PIEDMONT,**  
**SOUTH CAROLINA 29673**

MARK	DATE	DESCRIPTION

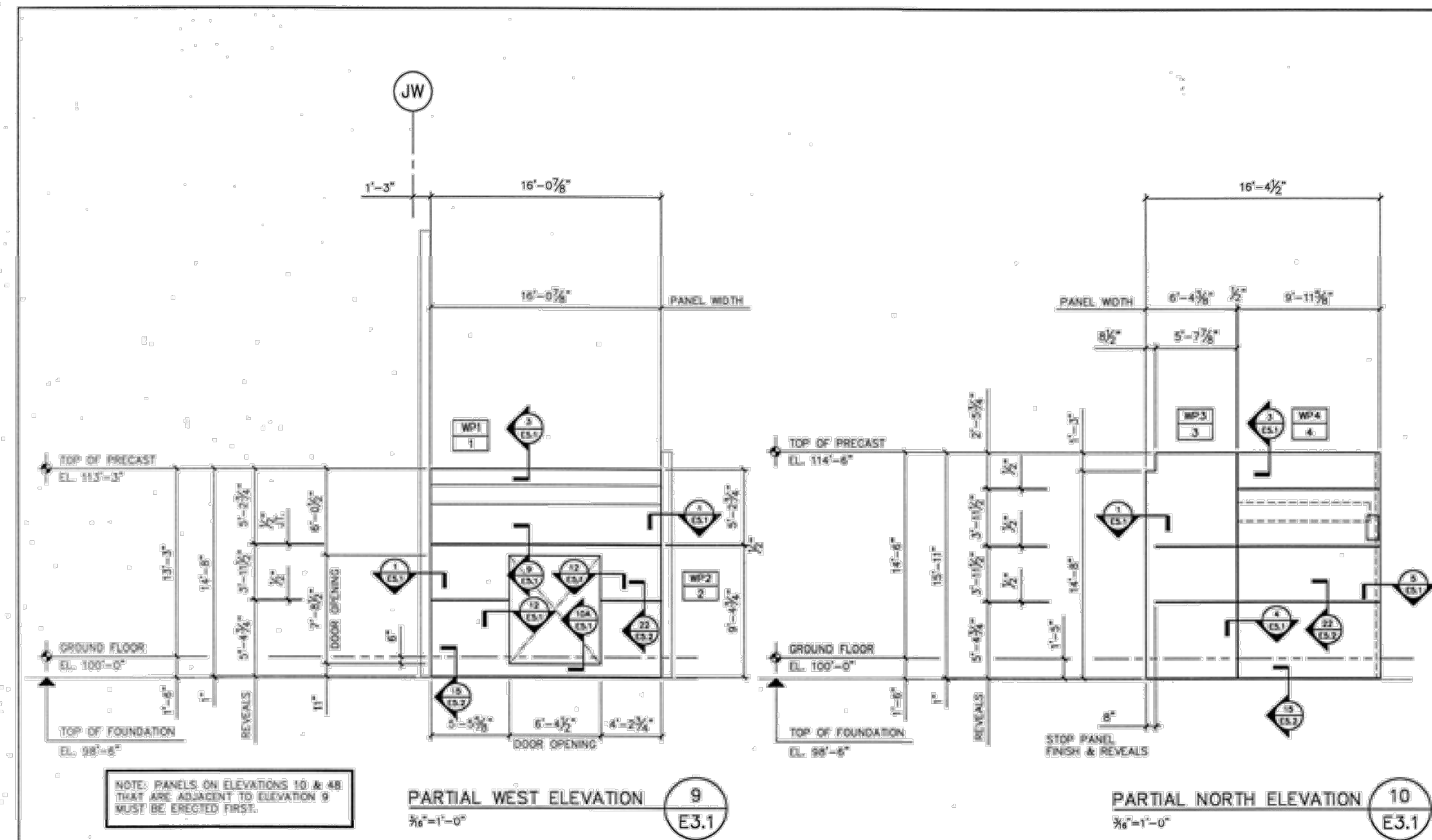
CAD DWG FILE:  
 DRAWN BY: DG  
 CHK'D BY:  
 DATE: MAY 29, 2024  
 COPYRIGHT

**HELICAL PILE DETAIL**  
 SHEET TITLE

FOR CONSTRUCTION

**C-7**

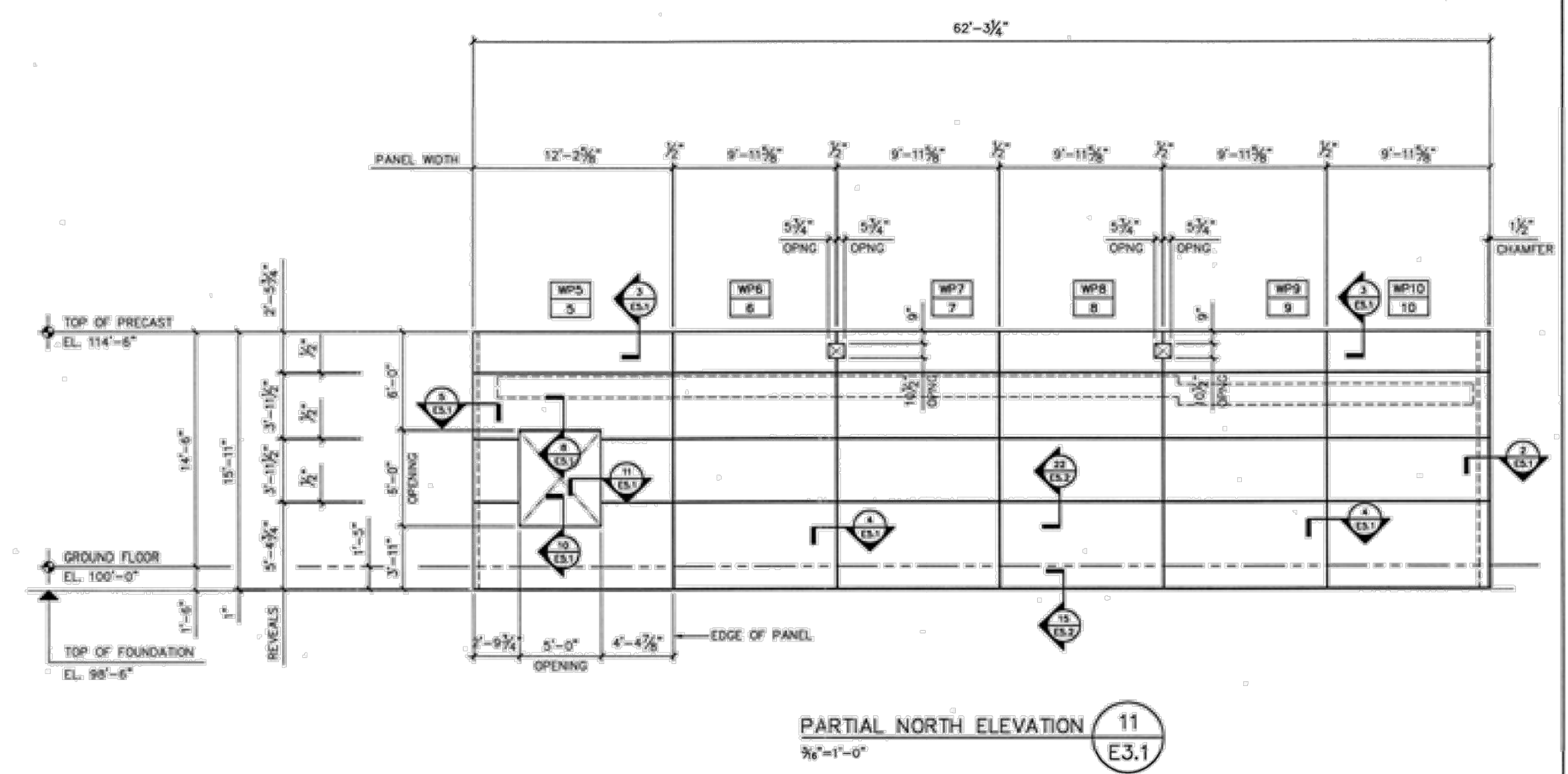
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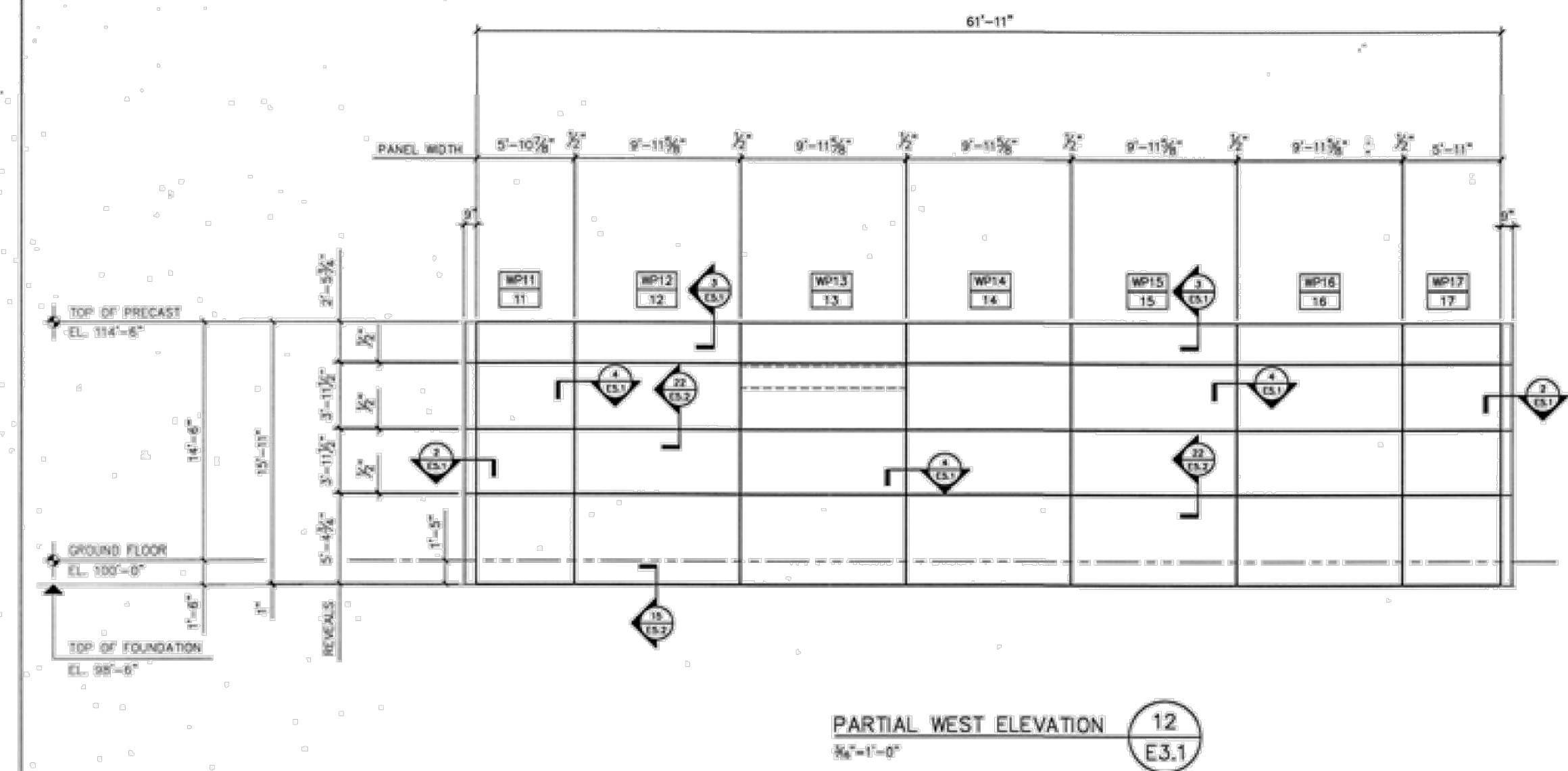
NOTE: PANELS ON ELEVATIONS 10 & 18 THAT ARE ADJACENT TO ELEVATION 9 MUST BE ERECTED FIRST.

PARTIAL WEST ELEVATION 9  
3/8"=1'-0" E3.1

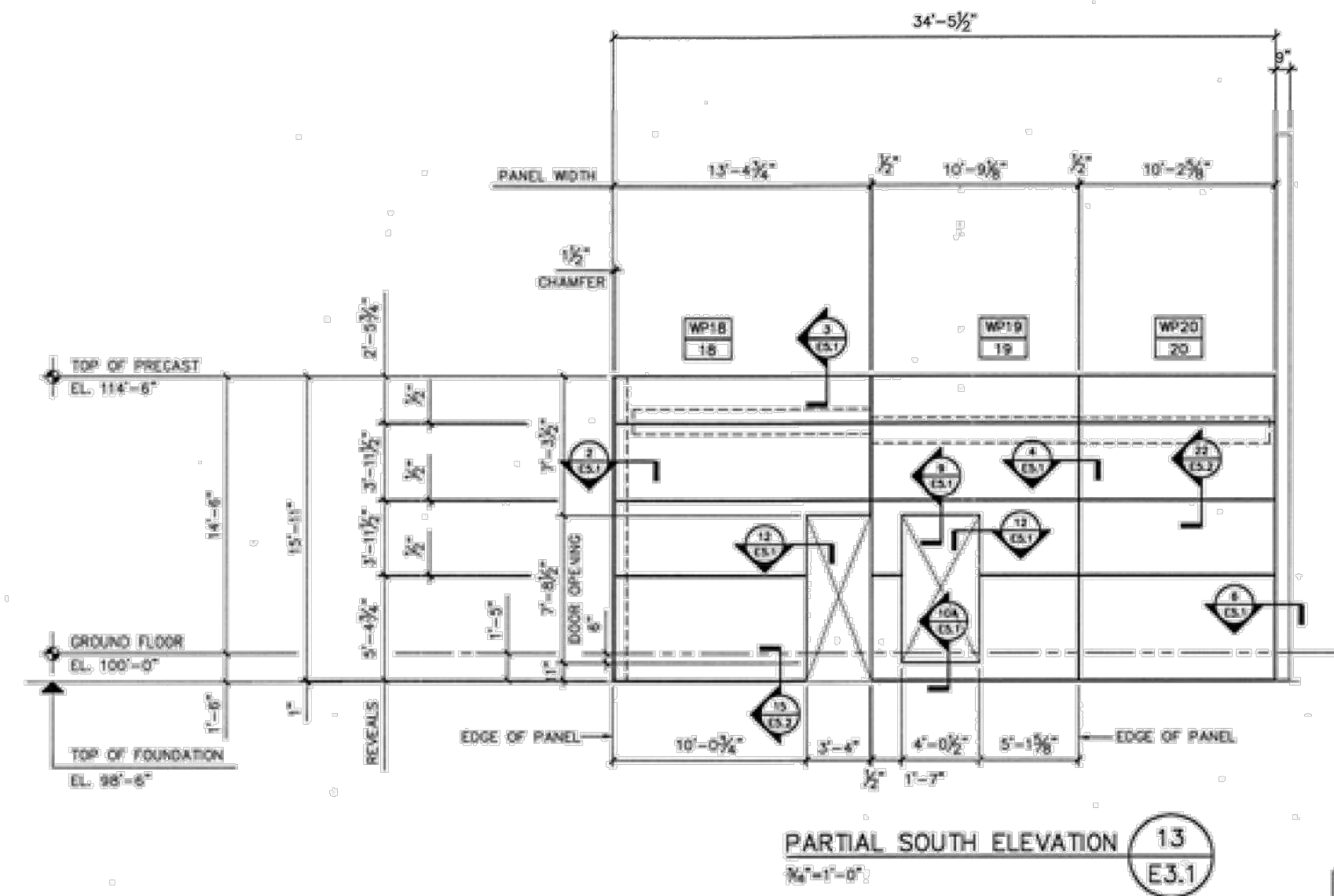
PARTIAL NORTH ELEVATION 10  
3/8"=1'-0" E3.1



PARTIAL NORTH ELEVATION 11  
3/8"=1'-0" E3.1

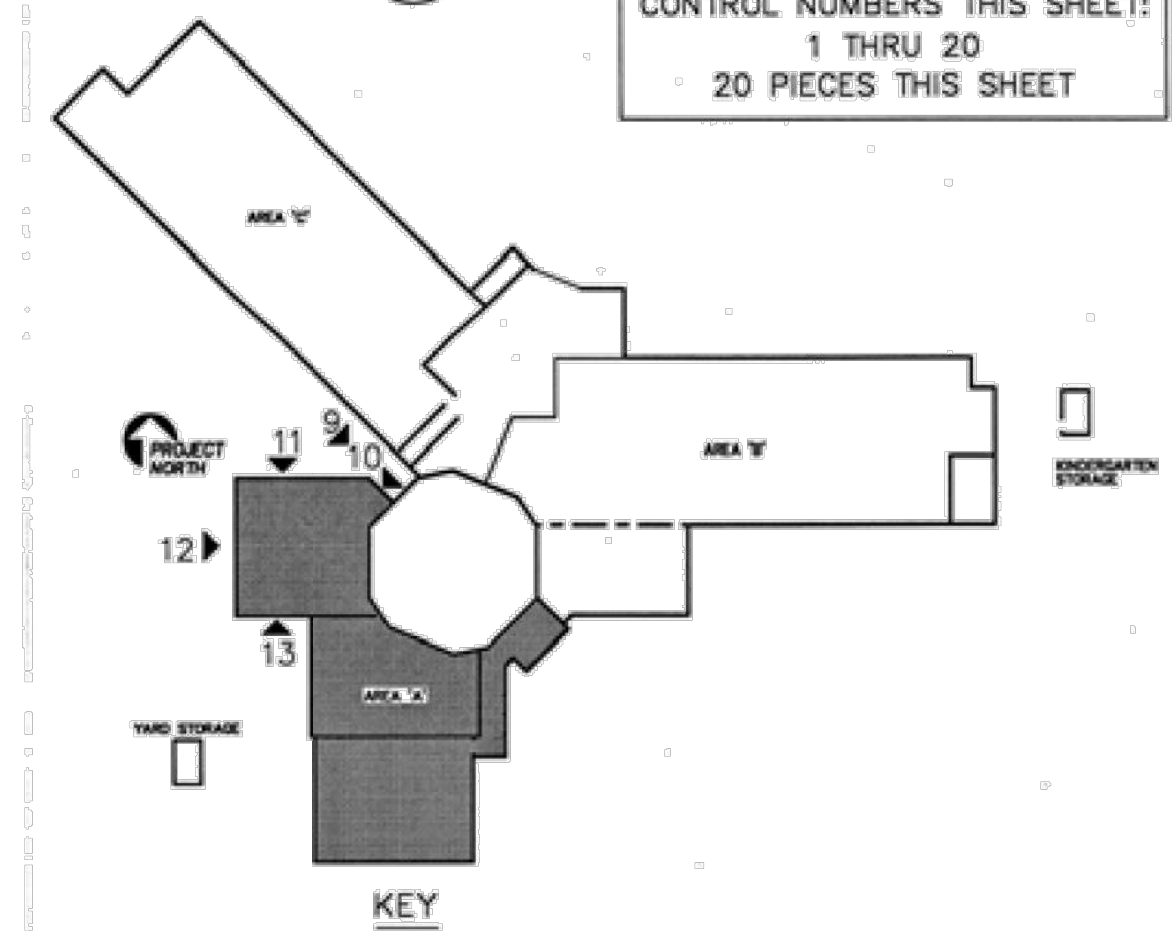


PARTIAL WEST ELEVATION 12  
3/8"=1'-0" E3.1



PARTIAL SOUTH ELEVATION 13  
3/8"=1'-0" E3.1

CONTROL NUMBERS THIS SHEET:  
1 THRU 20  
20 PIECES THIS SHEET

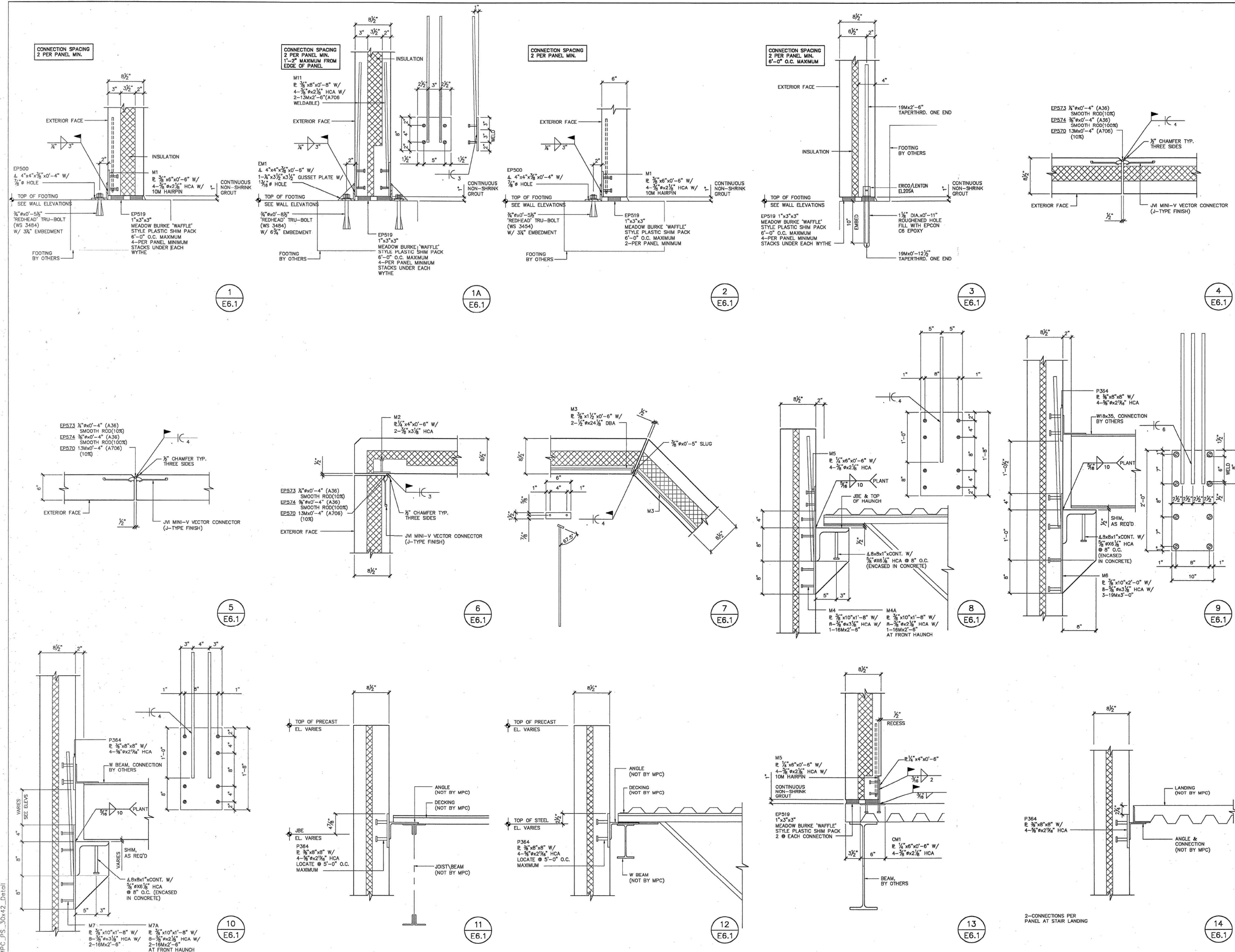


Dep. Owner	ELEVATIONS 9 - 13 (BRICK LAYOUT & OPENINGS)
Project	GROVE ELEMENTARY SCHOOL
Location	GREENVILLE, SOUTH CAROLINA
Arch. or Eng.	DURRANT
Contractor	BCE INC.
Job Number	4708
Drawing Number	E3.1 of

MFC\_2024\_00442



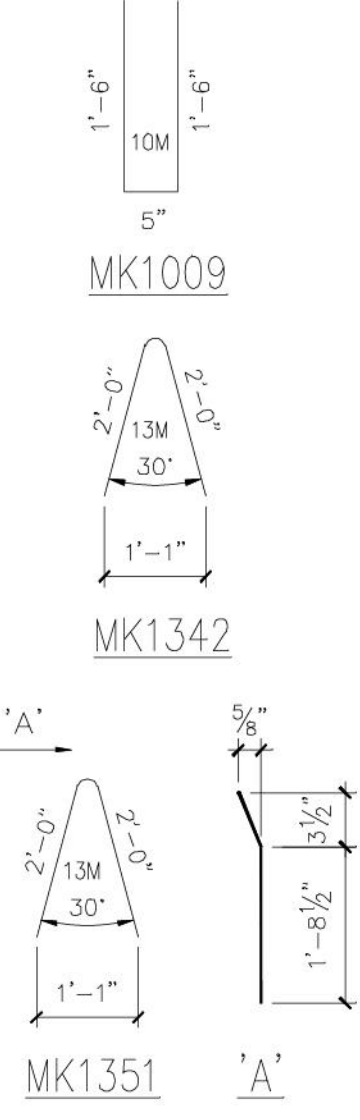
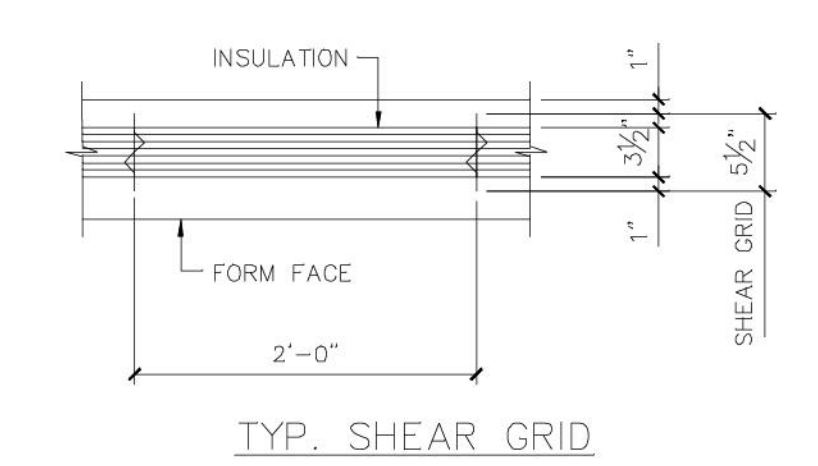
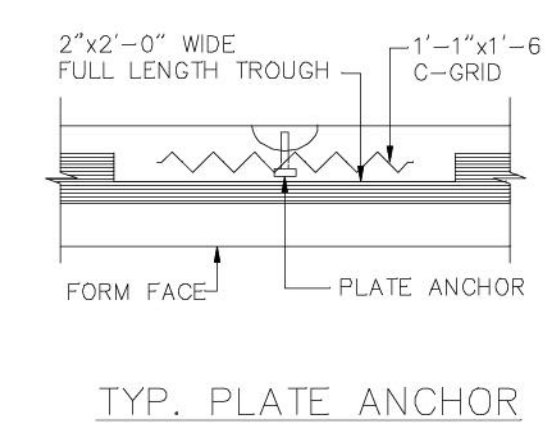
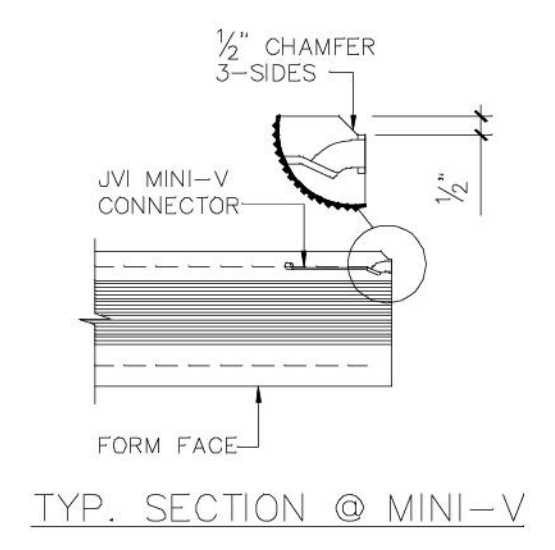
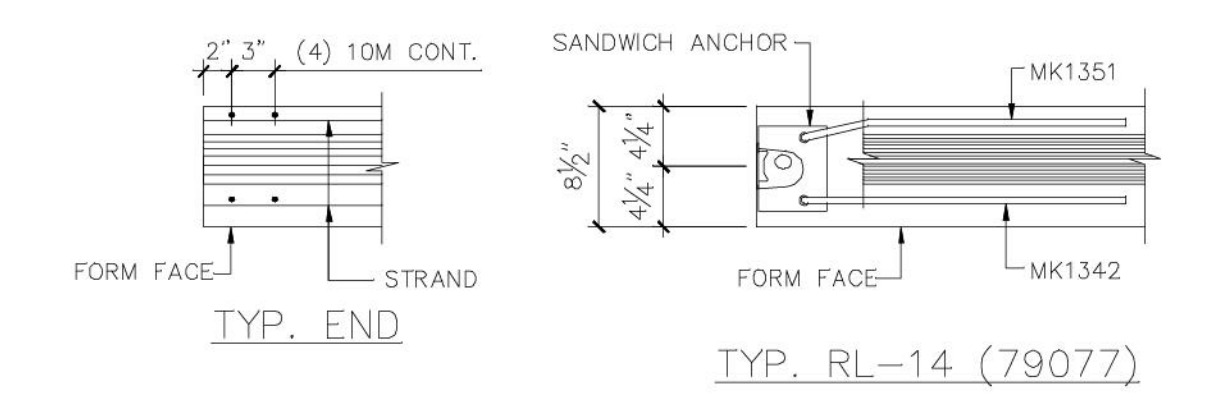




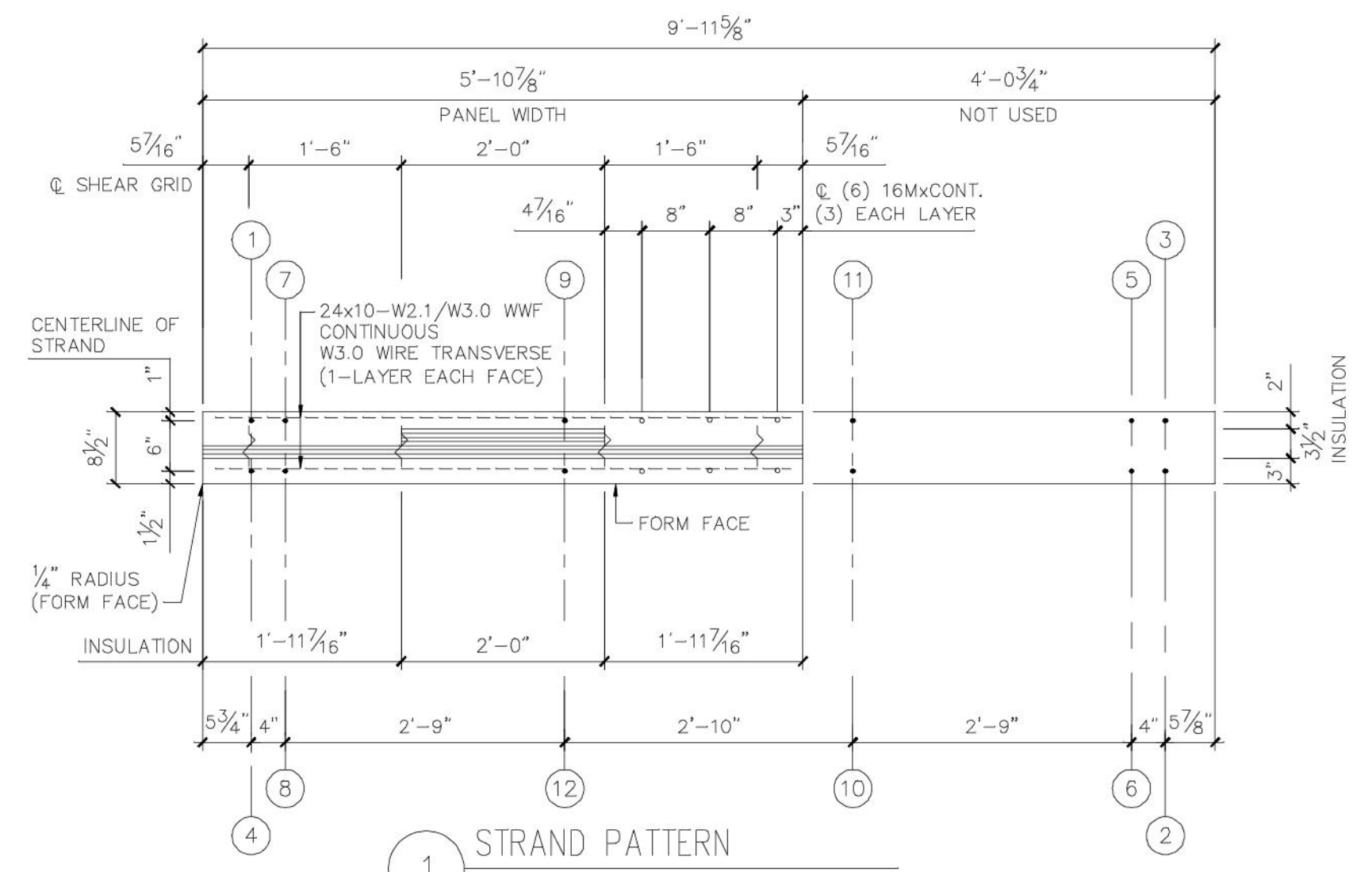
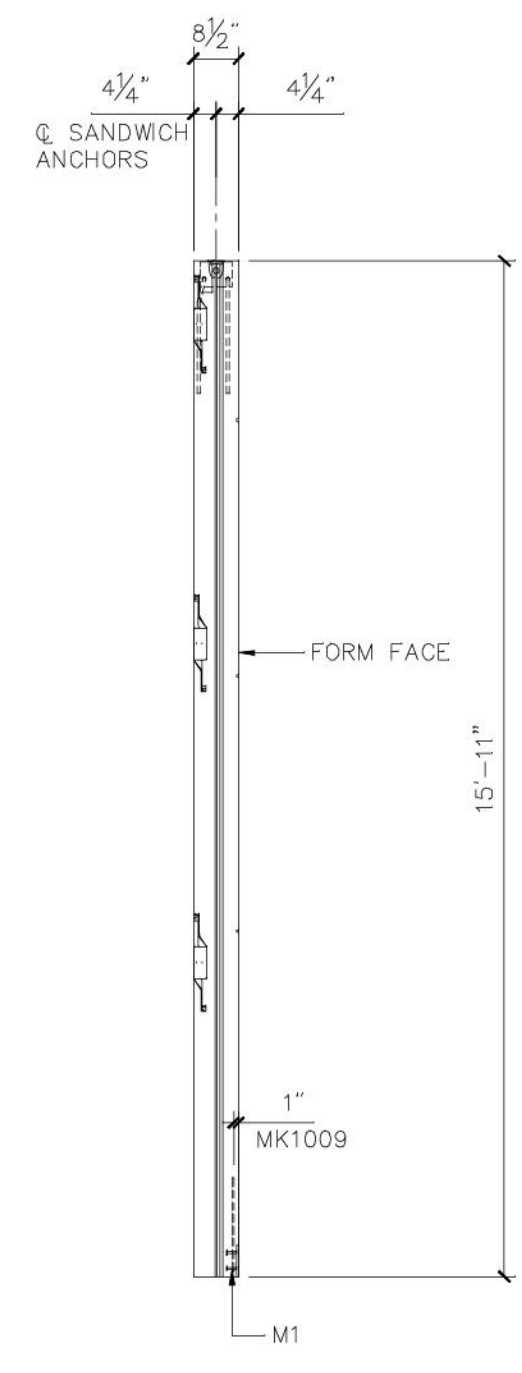
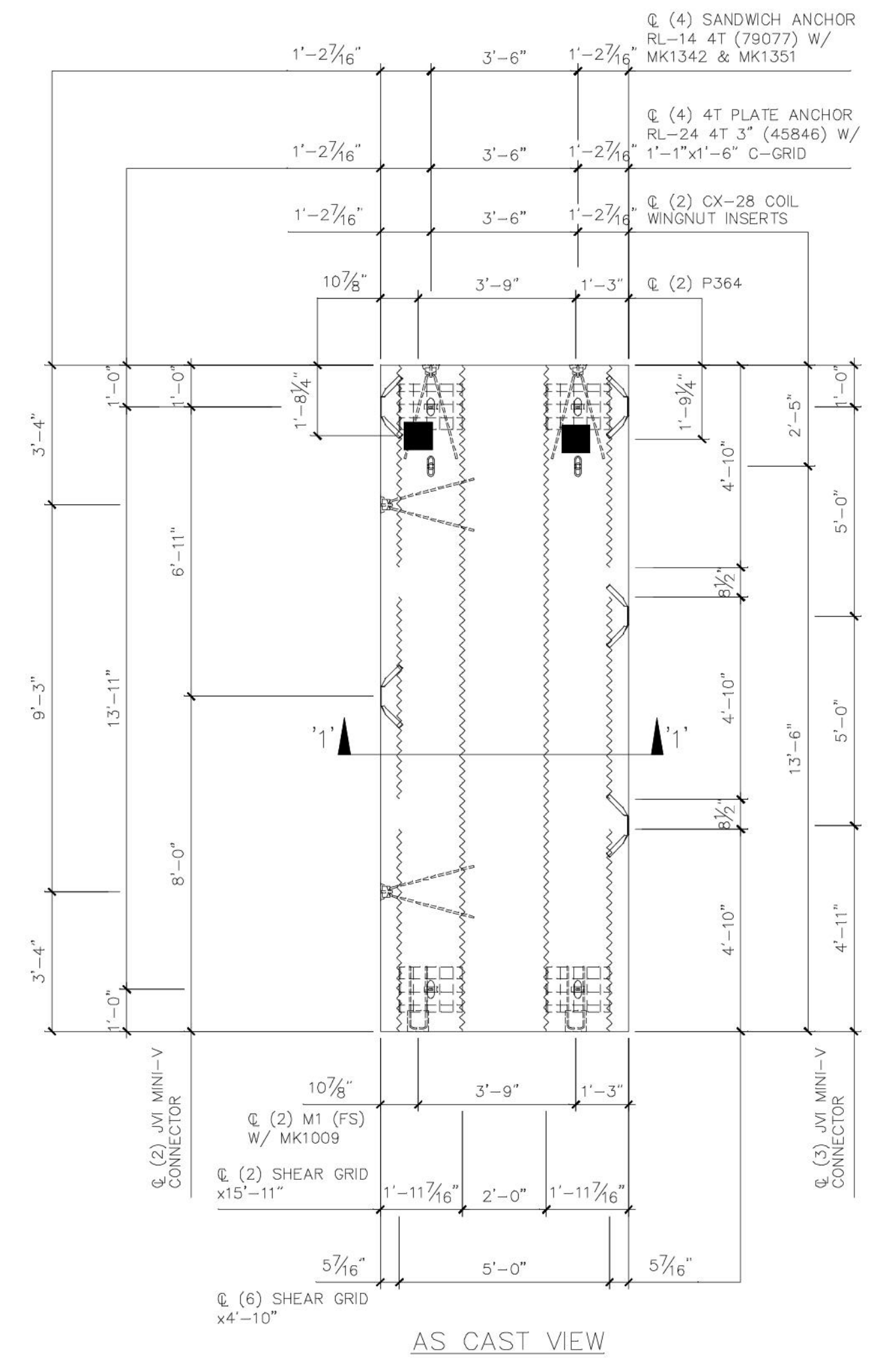
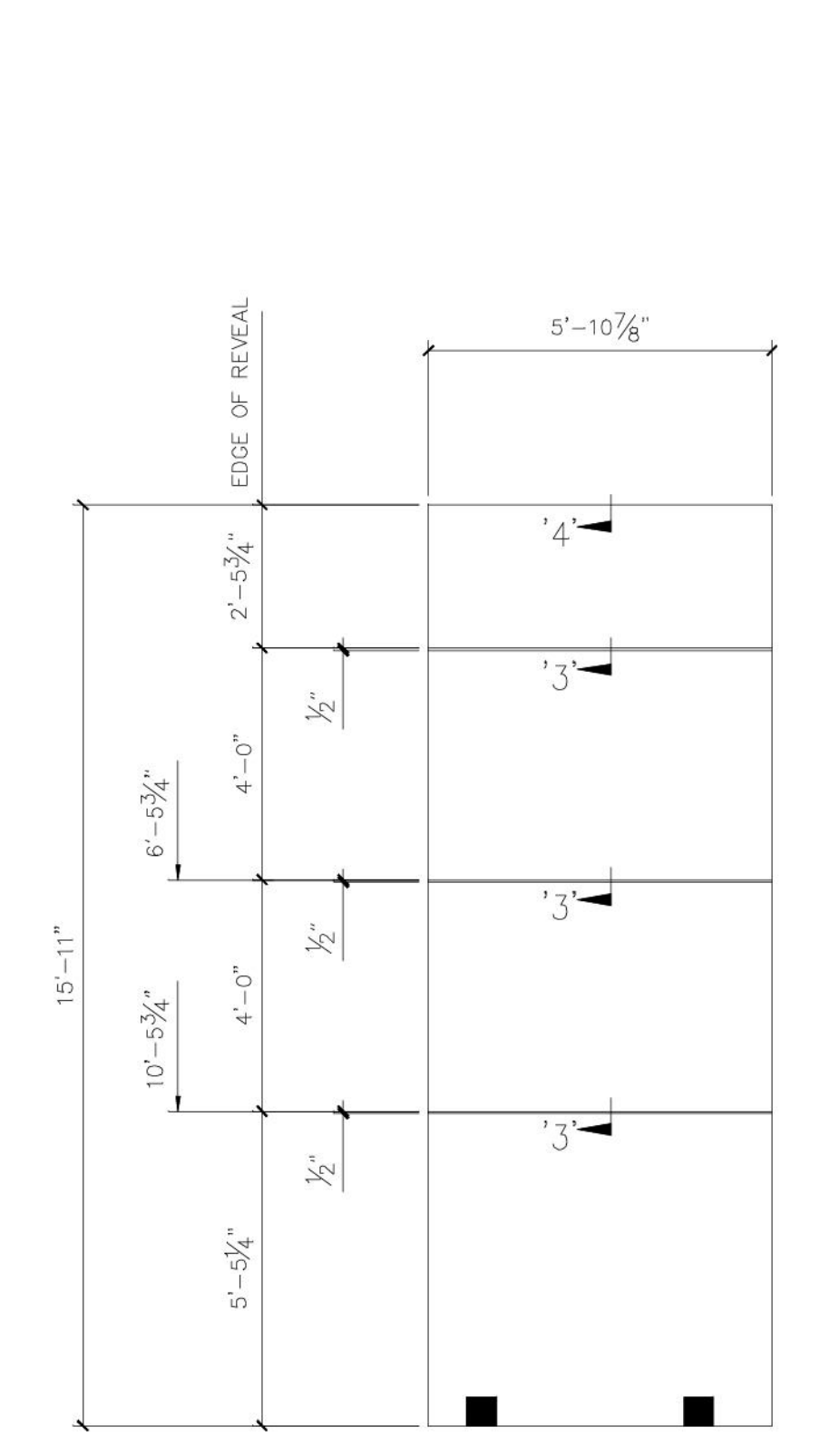
MPC\_PS\_30x42\_Detail

<b>CONNECTION DETAILS</b> GROVE ELEMENTARY SCHOOL GREENVILLE, SOUTH CAROLINA DURRANT BCE INC. 2802 WHITE HORSE ROAD GREENVILLE, SOUTH CAROLINA 29611 (864) 295-0295		Date: 08/20/04 Checked By: BC Drawn By: SC
Job Number <b>4706-1</b>	Drawing Number <b>E6.1</b>	Date: 08/20/04 Checked By: BC Drawn By: SC
Shop & Field 2 SHOP & FIELD 1 FOR APPROVAL ONLY	Issue 2 ISSUE	Description CONNECTION DETAILS

FOR REFERENCE

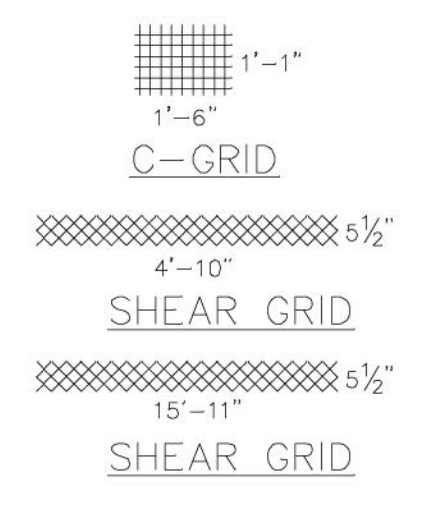


MATERIAL LIST	
REQ'D.	DESCRIPTION
4	RL-14 4T SANDWICH PNL. ANCH. (79077)
4	RL-24 4T 3" PLATE ANCHOR (45846)
5	VECTOR CONNECTOR-J FINISH
2	P364
2	MK1009
4	MK1342
4	MK1351
2	M1
6	CARBON FIBER SHEAR GRID 5-1/2" X 4'-10"
2	CARBON FIBER SHEAR GRID 5-1/2" X 15'-11"
4	CARBON FIBER C5500 C-GRID 1'-6" X 1'-1"
4	SHTS 1-1/2" X 2'-0" X 12'-0" EPS
1#	
2	SHTS 3-1/2" X 2'-0" X 12'-0" EPS
1#	
2	CX-28 3/4"X3-1/2" COIL WINGNUT
8	10M (#3) X 5'-7" BAR
6	16M (#5) X 15'-7" BAR
188	SQ FT 24 X 10 - W2.1 X W3.0
REBAR SIZES SHOWN ARE METRIC	



PRODUCT FINISH

- FORM FACE-----MEDIUM SANDBLAST PER APPROVED SAMPLE
- REVEAL-----MEDIUM SANDBLAST PER APPROVED SAMPLE
- OP FACE-----STEEL TROWEL
- ENDS-----AS CAST UNID.
- OPENINGS GROMMET STRAND PATCH & SACK EDGES



BLOCK AT STRIPPING POINTS FOR STORAGE AND SHIPPING

PRODUCTION NOTE!  
MAXIMUM CURING TEMPERATURE 140°

USE (12) 3/8" DIA. 270 K LOW-LAX STR. AT 17200 # I.T.  
USE 5000 P.S.I. CONC. AT 28 DAYS MIN.  
RELEASE AT 3500 P.S.I. MIN.  
USE NORMAL WT. 150 # / C.F. GREY CONC. (BACK FACE)  
USE NORMAL WT. 150 # / C.F. ARCH. CONC. PER APPR. SAMPLE (FORM FACE)  
ALL REINFORCEMENT TO BE GRADE 420

CONTROL NUMBERS	11	DATE	BY	ISSUE	DESCRIPTION	REQ'D	WEIGHT	Cubic Yards		Square Feet		CODE
								FACE	BACK	FINISH		
		10/01/04	BC	2	REVISED SHOP & FIELD	1	7430	.87	.96	94	63	
		09/29/04	BC	1	SHOP & FIELD							



2802 WHITE HORSE ROAD  
GREENVILLE, SOUTH CAROLINA  
29611 (864) 295-0295

Dwg. Covers 3-3 1/2-2 LOAD BRG. INSUL. WALL PANEL

Project GROVE ELEMENTARY SCHOOL

Location GREENVILLE, SOUTH CAROLINA

Arch. or Eng. DURRANT

Contractor BCE INC.

Drawn By. SG Date: 09/07/04 Job Number 4706-1 Drawing Number WP11 - of -

Chk'd. By. BC/DJ Date: 09/17/04

2-2-2-STD-NILB PS

