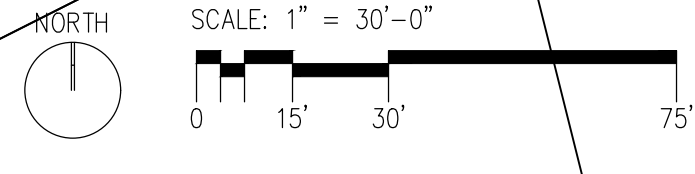


SEE SHEET L301 FOR GRADING NOTES AND LEGENDS



SHEET X02

MATCH LINE L301  
MATCH LINE L302

HILLTOP ROAD

SHEET X03

MATCH LINE L303  
MATCH LINE L305

SHEET X04

MATCH LINE L303  
MATCH LINE L305

MATCH LINE L304  
MATCH LINE L304

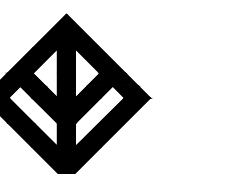
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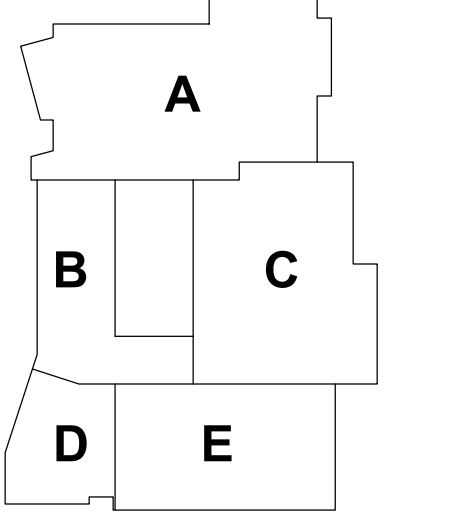
147 Pond St, Franklin, MA 02038



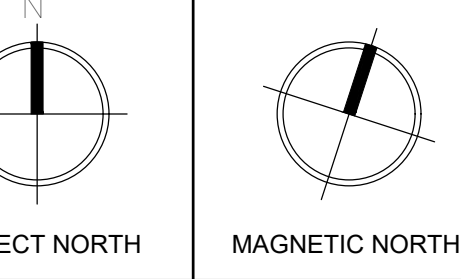
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617.464.1440 www.warnerlarson.com

PROGRESS SET

June 14, 2024



KEY PLAN



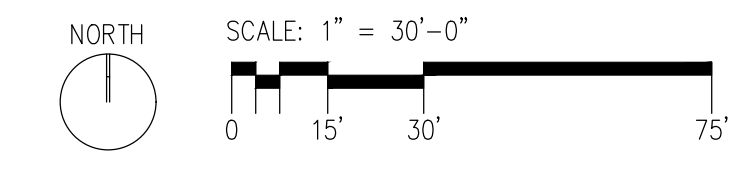
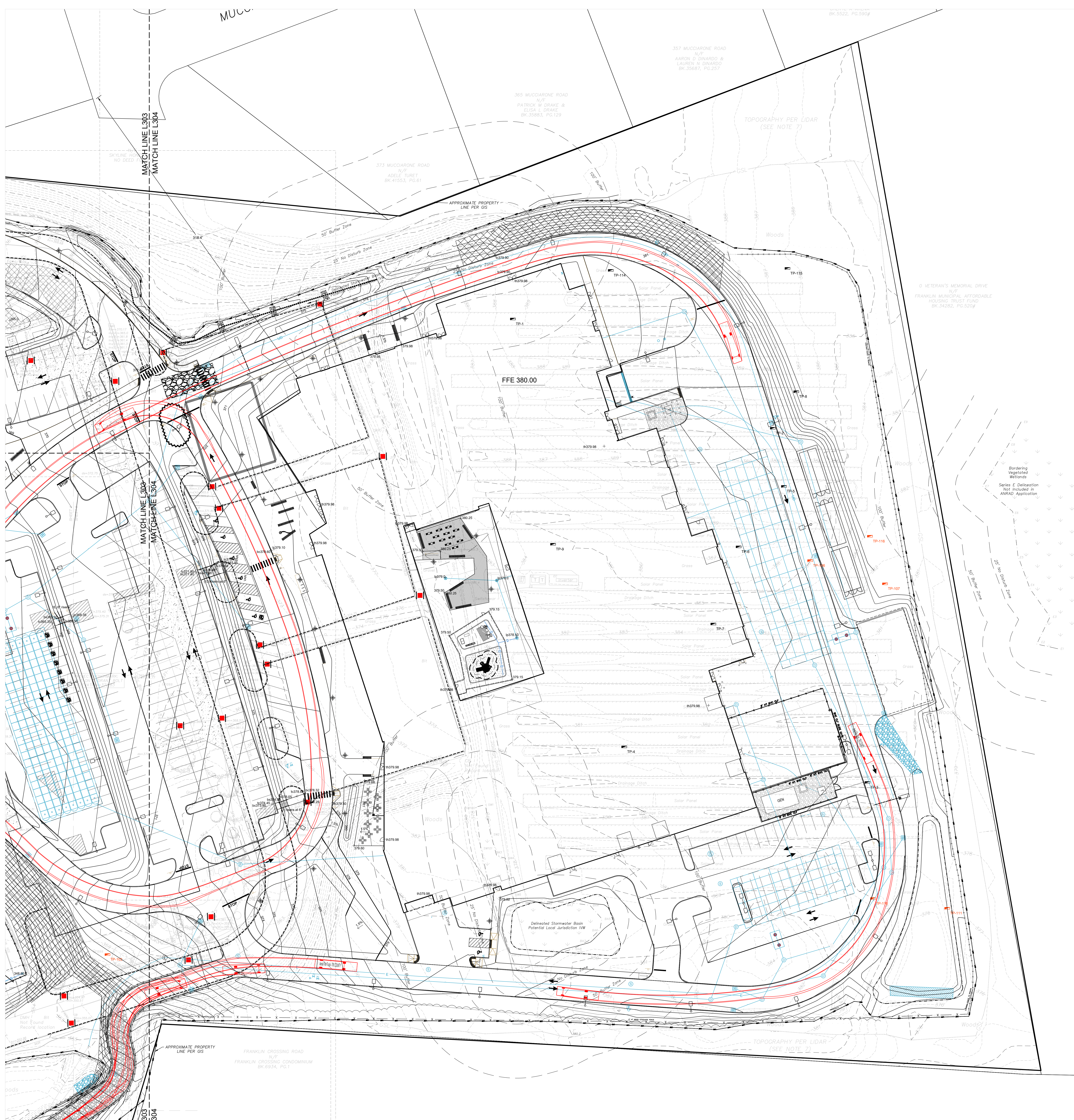
PROJECT NORTH MAGNETIC NORTH

LANDSCAPE GRADING PLAN

Scale: 1"=30'  
Project: 22001.00  
Author: WLI  
Date: 4/26/2024

L303

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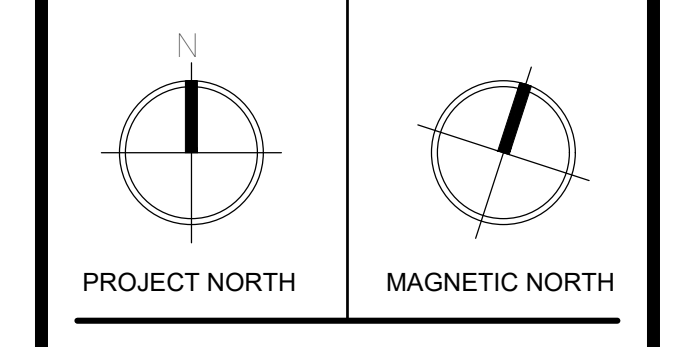
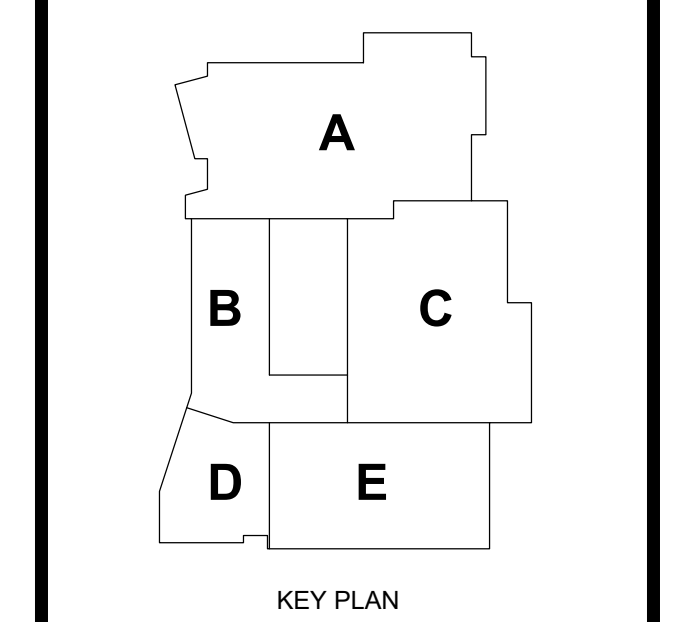
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PROGRESS SET

June 14, 2024



**LANDSCAPE GRADING PLAN**

Scale: 1"=30'  
Project: 22001.00  
Author: WLJ  
Date: 4/26/2024  
**L304**



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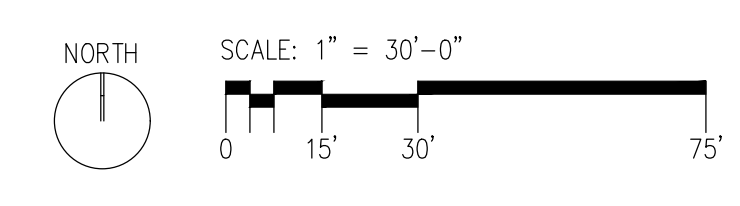
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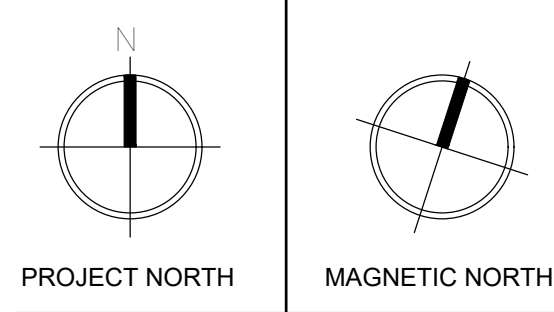
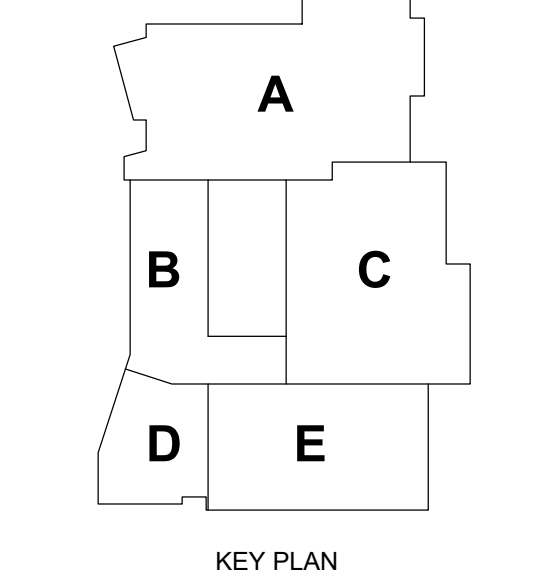
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 LEGENDS



PROGRESS SET

June 14, 2024



**LANDSCAPE  
 GRADING PLAN**

Scale: 1"=30'  
 Project: 22001.00  
 Author: WLI  
 Date: 4/26/2024

**L305**

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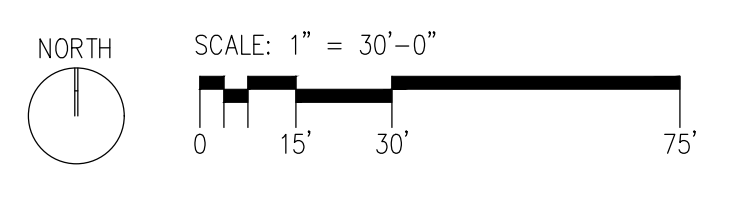


**NOTES**

- CONTRACTOR SHALL STAKE PLANT LOCATIONS TO BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. NEW PLANT MATERIAL ADJACENT TO BUILDING SHALL BE LOCATED NO CLOSER THAN 3' O.C. TO FOUNDATION WALL.
- ALL PLANT MATERIAL AND PLANTING PROCEDURES SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
- CONTRACTOR SHALL LOCATE AND VERIFY EXISTING AND NEW UNDERGROUND UTILITY LOCATIONS PRIOR TO PLANTING.
- CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AND SEEDING ANY AREAS DESIGNATED TO BE LAWN, OR OTHER SEED PLANTING MATERIAL ON THIS PLAN AND ANY AREAS DISTURBED DURING THE CONSTRUCTION AND NOT OTHERWISE DEVELOPED UNDER THIS CONTRACT BOTH WITHIN AND OUTSIDE OF THE LIMIT OF WORK LINE.
- ALL PLANT BEDS SHALL RECEIVE 3" DEPTH OF PINE BARK MULCH.
- PROVIDE EROSION CONTROL MATTING AT ALL SEEDED SLOPES 3:1:1 AND STEEPER AND ALONG BOTTOM OF ALL SWALES IMMEDIATELY AFTER FINE GRADING AND SEEDING.
- ALL EXISTING TREES TO REMAIN WITHIN THE LIMIT OF WORK AND WHERE INDICATED ON THE DRAWINGS SHALL BE PRUNED IN ACCORDANCE WITH THE SPECIFICATIONS.
- WHERE ANOTHER CULTIVAR IS NOTED AS ACCEPTABLE, AND THERE ARE MORE THAN 1 SPECIFIED, ALL PLANTS OF THAT SPECIES ARE TO BE THE SAME CULTIVAR.
- ALL PLANTING SPECIES SHOULD BE CONSISTENT WITH THE BEST DEVELOPMENT PRACTICE GUIDEBOOK.

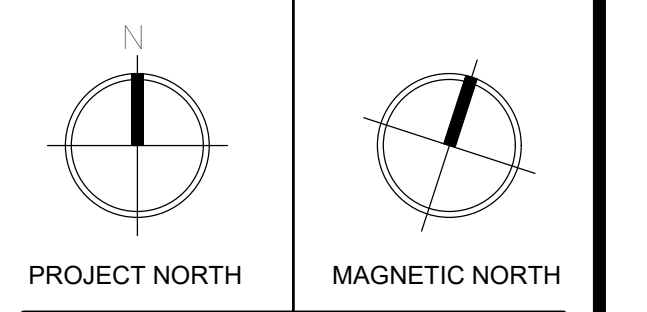
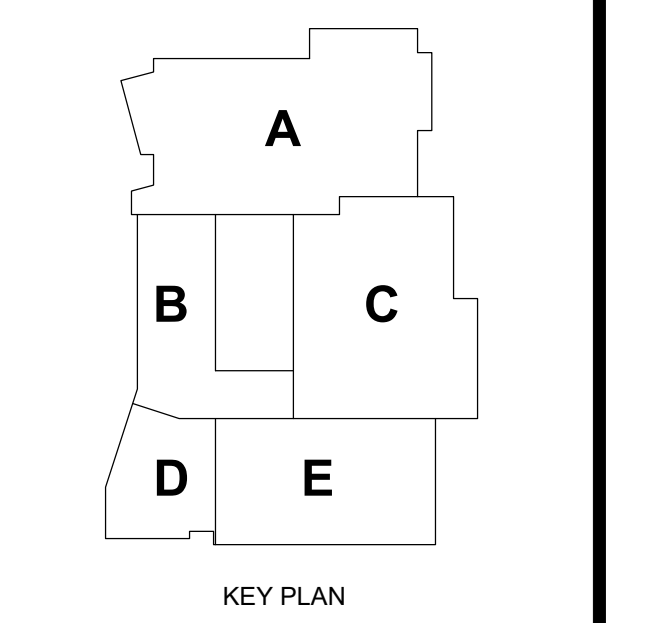
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	
<b>DECIDUOUS TREES</b>						
AR	9	Acer rubrum 'Redpointe'	Redpointe Maple	2.5' Cal.	Native	
AS	2	Acer saccharum	Sugar Maple	2.5' Cal.	Native	
GB2	12	Ginkgo biloba 'Magyar'	Magyar Ginkgo	3.5-4.0' cal. B&B		
GT5	15	Gleditsia triacanthos inermis 'Skycole' TM	Skyline Thornless Honey Locust	2.5' Cal.		
NS	3	Nyssa sylvatica 'Wildfire'	Black Gum	2.5' Cal.		
PA	8	Platanus x acerifolia 'Exclamation'	London Plane Tree	3.5' cal. B&B	Adaptable (Native Sycamore hard to source)	
OP	2	Quercus palustris	Pin Oak	2.5' Cal.	Native	
QR	2	Quercus rubra	Red Oak	2.5' Cal.	Native	
TA	7	Tilia americana 'Legend'	Linden	2-2.5' cal. B&B	High Branched	
UA	9	Ulmus americana 'Jefferson'	American Elm	2.5' Cal.	Valley Forge acceptable cultivar	
ZS	4	Zelkova serrata 'Village Green'	Village Green Sawleaf Zelkova	3' Cal.	Halka an acceptable cultivar	
<b>EVERGREEN TREES</b>						
CL	14	x Cupressocyparis leylandii	Leyland Cypress	5-6' Ht. B&B	Buffer Planting	
TP	4	Thuja plicata 'Green Giant'	Green Giant American Arborvitae	8' Ht.	Native	
<b>ORNAMENTAL TREES</b>						
AX	17	Amelanchier x grandiflora 'Autumn Brilliance'	'Autumn Brilliance' Serviceberry	6-7' Ht. B&B	Native Clump	
PA2	8	Prunus subhirtella 'Autumnalis'	Autumn Flowering Cherry	2-2.5' cal. B&B		
PSK	3	Prunus serrulata 'Kawazans'	Flowering Cherry	2.5' Cal.		
CODE	QTY	DETAIL	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
<b>GROUND COVERS</b>						
CK3	73		Calamagrostis x acutiflora Karl Foerster'	Karl Foerster Feather Reed Grass	2 gal.	
PD	813		Pleoblastus distichus	Dwarf Fernleaf Bamboo	1 gal.	
RG	122		Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	9 gal.	

- LEGEND:**
- (+) DECIDUOUS TREE
  - (\*) ORNAMENTAL TREE
  - (x) EVERGREEN TREE
  - (o) SHRUB
  - (o) PERENNIAL
  - LAWN GENERAL LAWN AREA, NON-IRRIGATED SEEDED LAWN
  - ([Pattern]) IRRIGATED ATHLETIC FIELD
  - ([Pattern]) LAWN: FESCUE SEED MIX
  - ([Pattern]) CONSERVATION SEED MIX
  - ([Pattern]) NATIVE WETLAND SEED MIX



**PROGRESS SET**

June 14, 2024



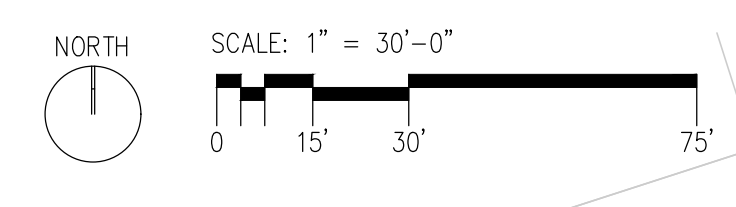
**PLANTING PLAN**

Scale: 1"=30'  
 Project: 22001.00  
 Author: WLJ  
 Date: 4/28/2024  
**L401**



- LEGEND:
- ⊕ DECIDUOUS TREE
  - ⊕ ORNAMENTAL TREE
  - ⊕ EVERGREEN TREE
  - SHRUB
  - PERENNIAL
- LAWN
- GENERAL LAWN AREA: NON-IRRIGATED SEEDED LAWN
  - IRRIGATED ATHLETIC FIELD
  - LAWN: FESCUE SEED MIX
  - CONSERVATION SEED MIX
  - NATIVE WETLAND SEED MIX

SEE L401 FOR PLANT SCHEDULE



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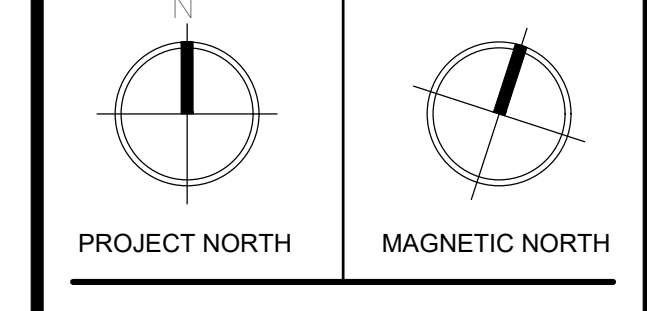
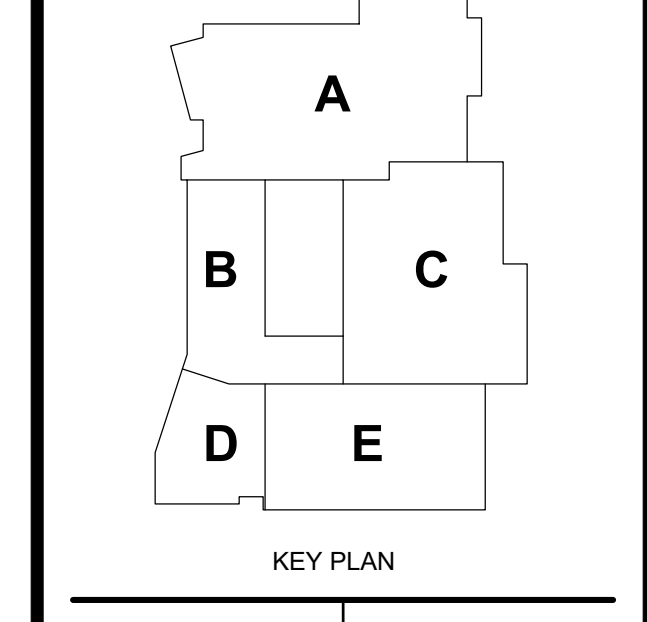
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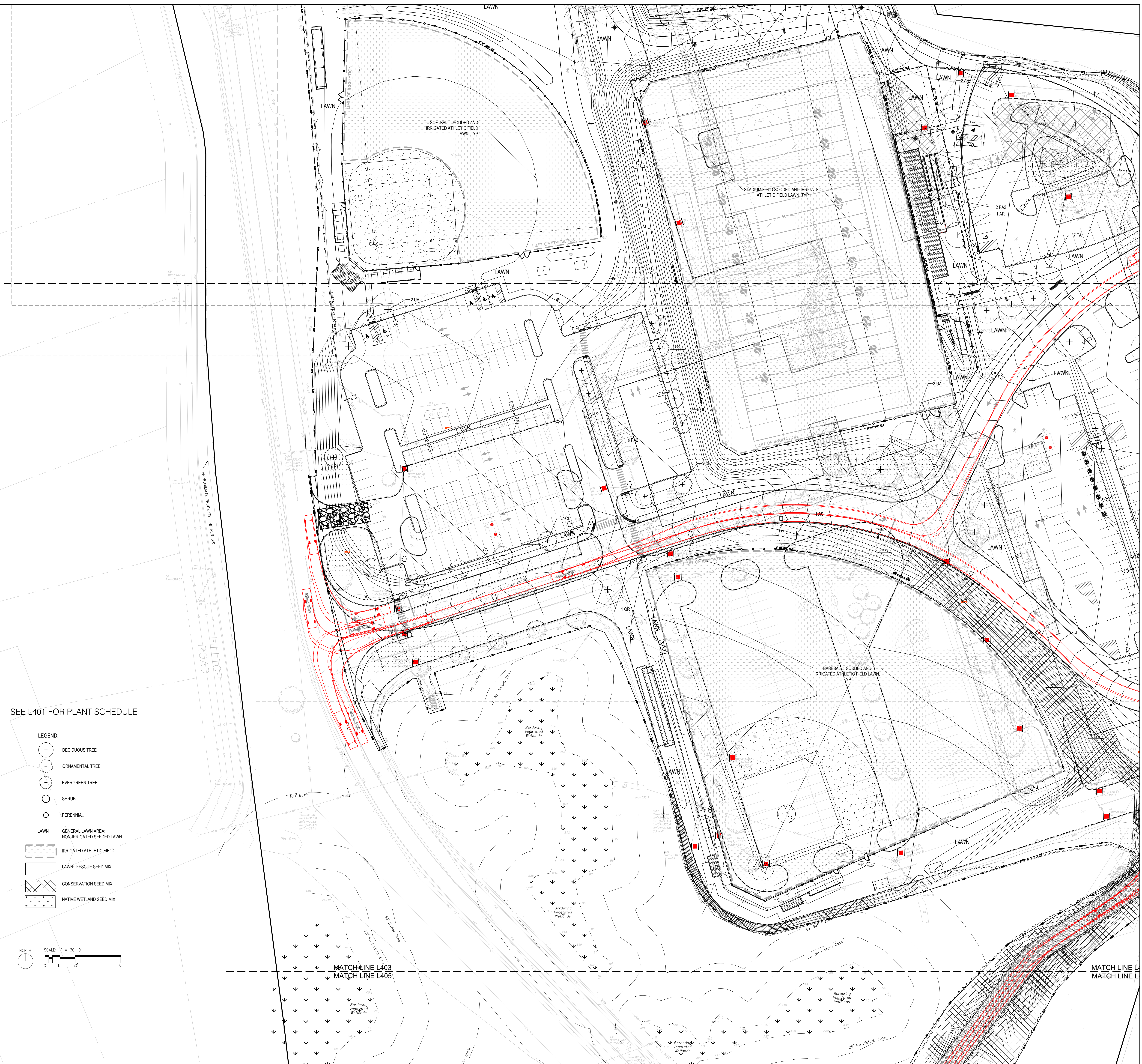
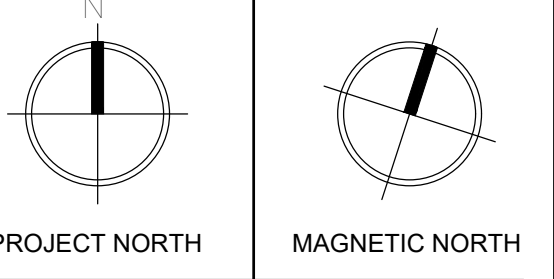
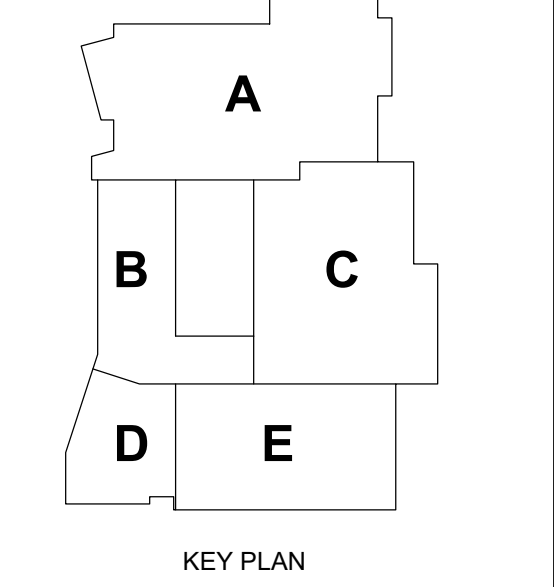
June 14, 2024



**PLANTING PLAN**

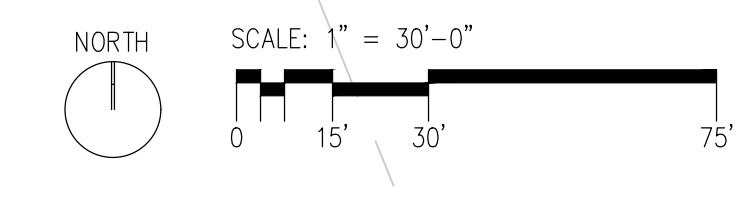
Scale: 1"=30'  
Project: 22001.00  
Author: WJ  
Date: 4/26/2024

**L402**



SEE L401 FOR PLANT SCHEDULE

- LEGEND:
- (+) DECIDUOUS TREE
  - (\*) ORNAMENTAL TREE
  - (•) EVERGREEN TREE
  - (○) SHRUB
  - (○) PERENNIAL
- LAWN
- (General Lawn Area, Non-Irrigated Seeded Lawn)
  - (Irrigated Athletic Field)
  - (Lawn: Fescue Seed Mix)
  - (Conservation Seed Mix)
  - (Native Wetland Seed Mix)



MATCH LINE L403  
MATCH LINE L405

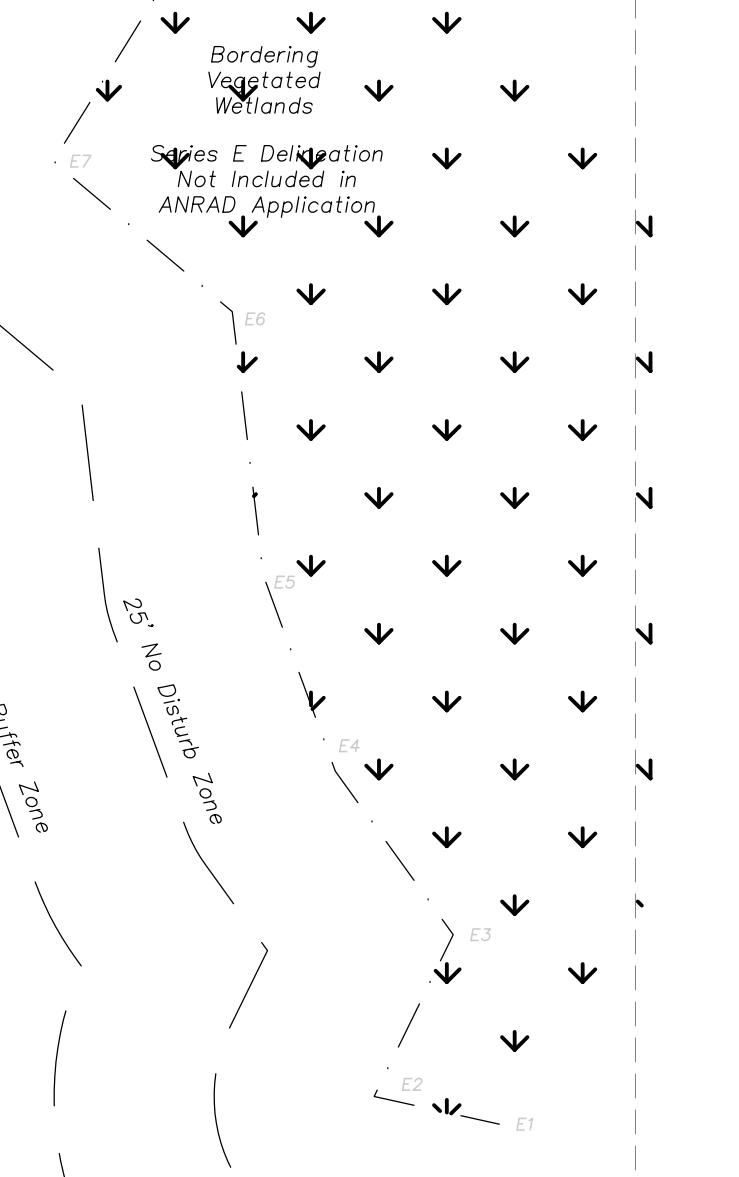
MATCH LINE L403  
MATCH LINE L405



NORTH  
SCALE: 1" = 30'-0"  
0 15' 30' 75'

- LEGEND:**
- ⊕ DECIDUOUS TREE
  - ⊕ ORNAMENTAL TREE
  - ⊕ EVERGREEN TREE
  - SHRUB
  - PERENNIAL
- LAWN**
- ▨ GENERAL LAWN AREA
  - ▨ NON-IRRIGATED SEEDED LAWN
  - ▨ IRRIGATED ATHLETIC FIELD
  - ▨ LAWN: FESCUE SEED MIX
  - ▨ CONSERVATION SEED MIX
  - ▨ NATIVE WETLAND SEED MIX

SEE L401 FOR PLANT SCHEDULE

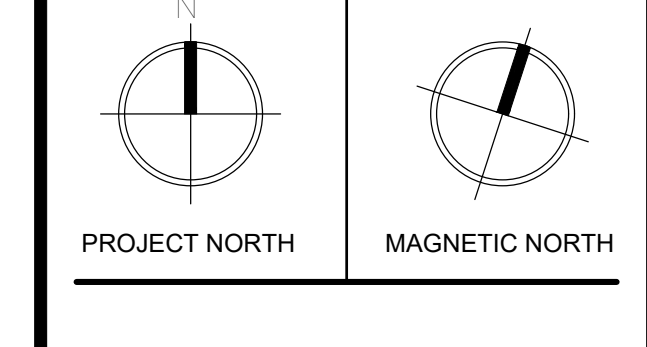
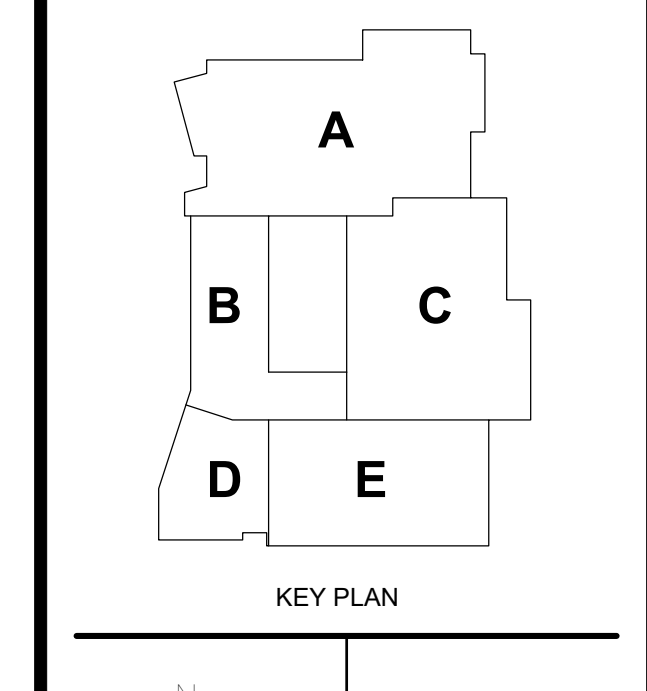


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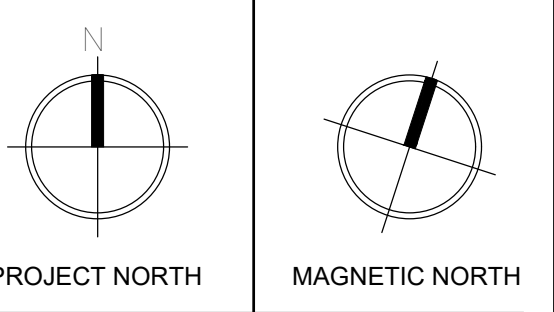
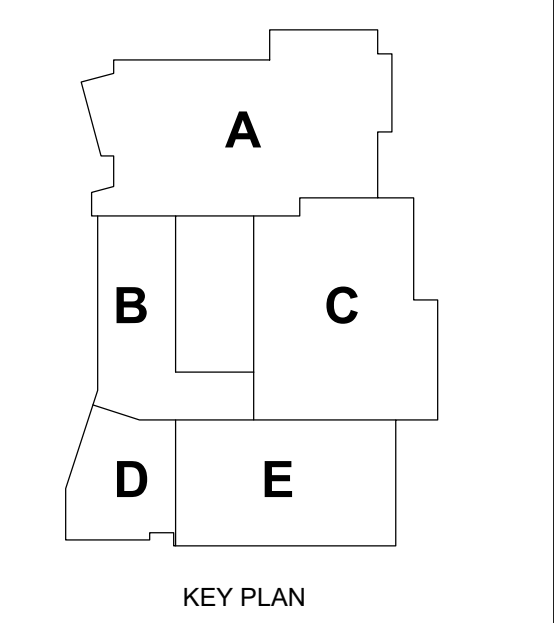
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June 14, 2024

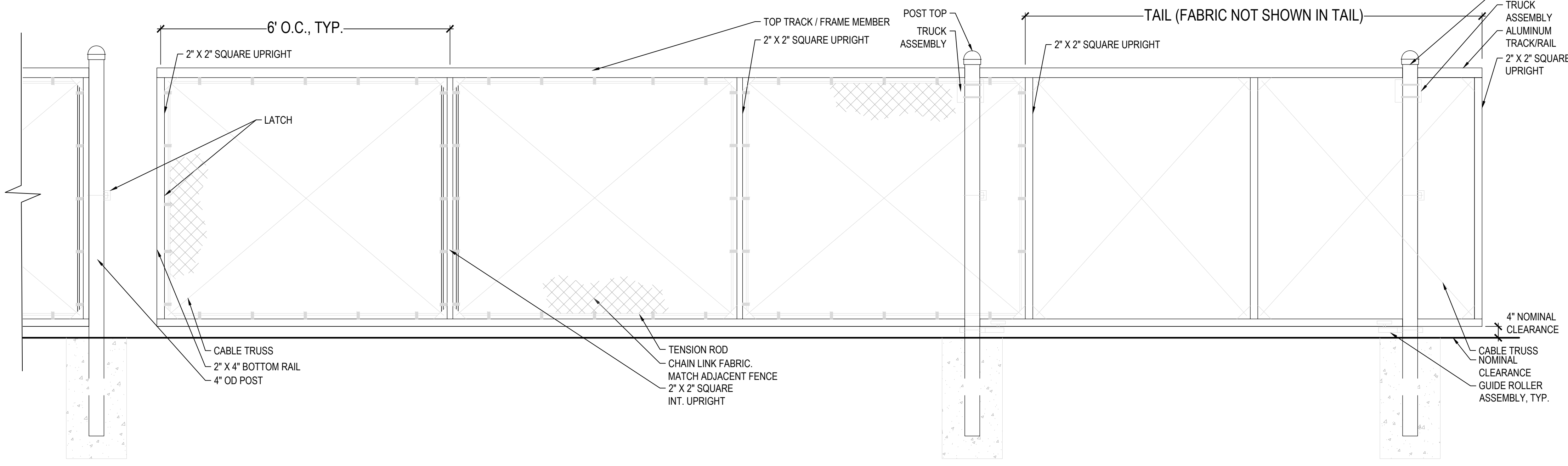


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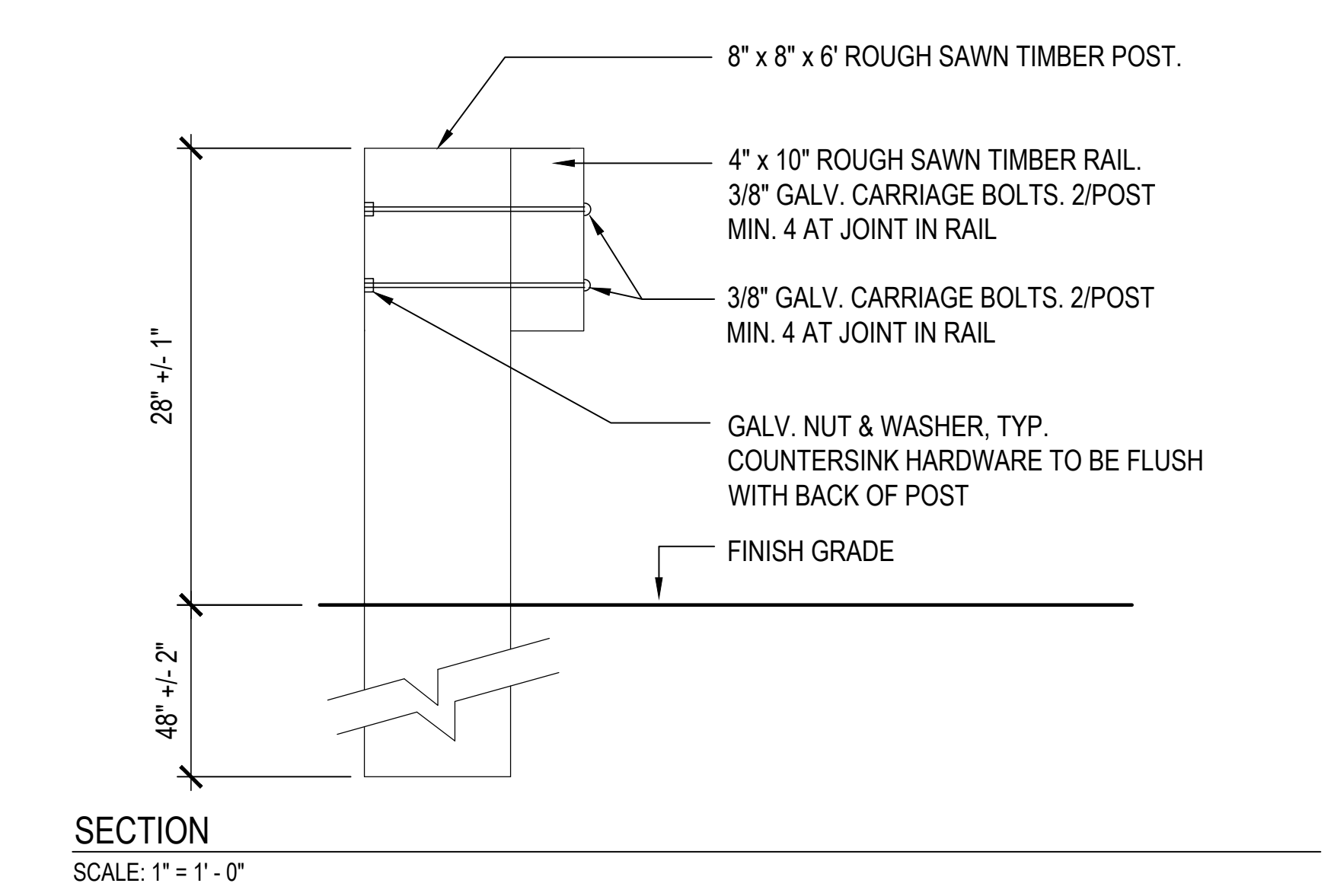
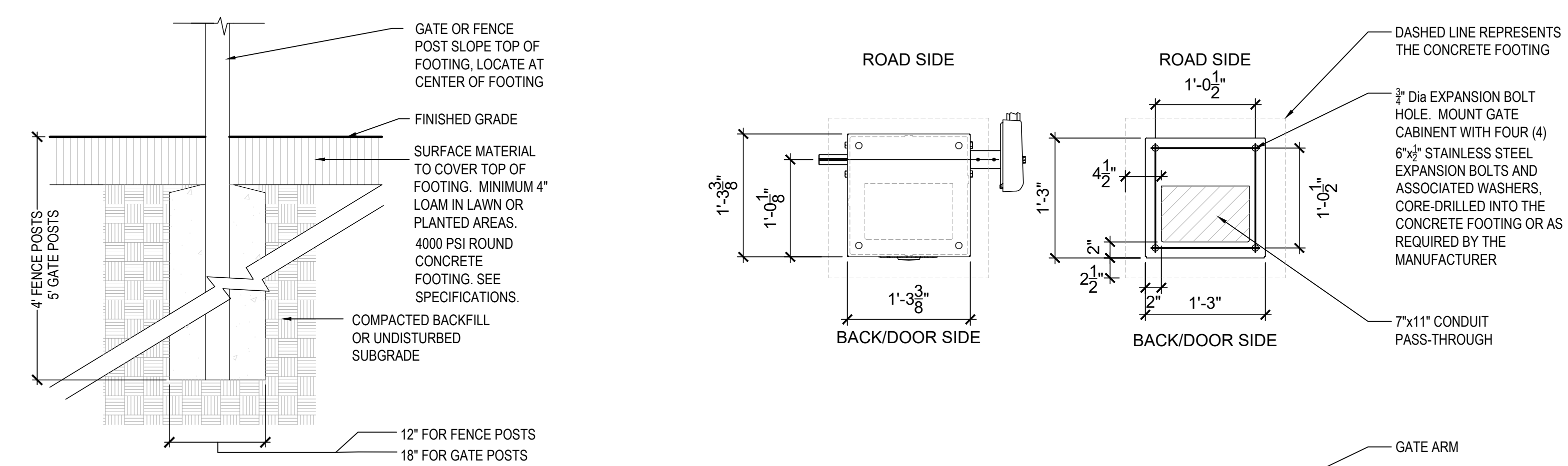
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Project: 22001.00  
Author: WLJ  
Date: 4/26/2024  
**L404**



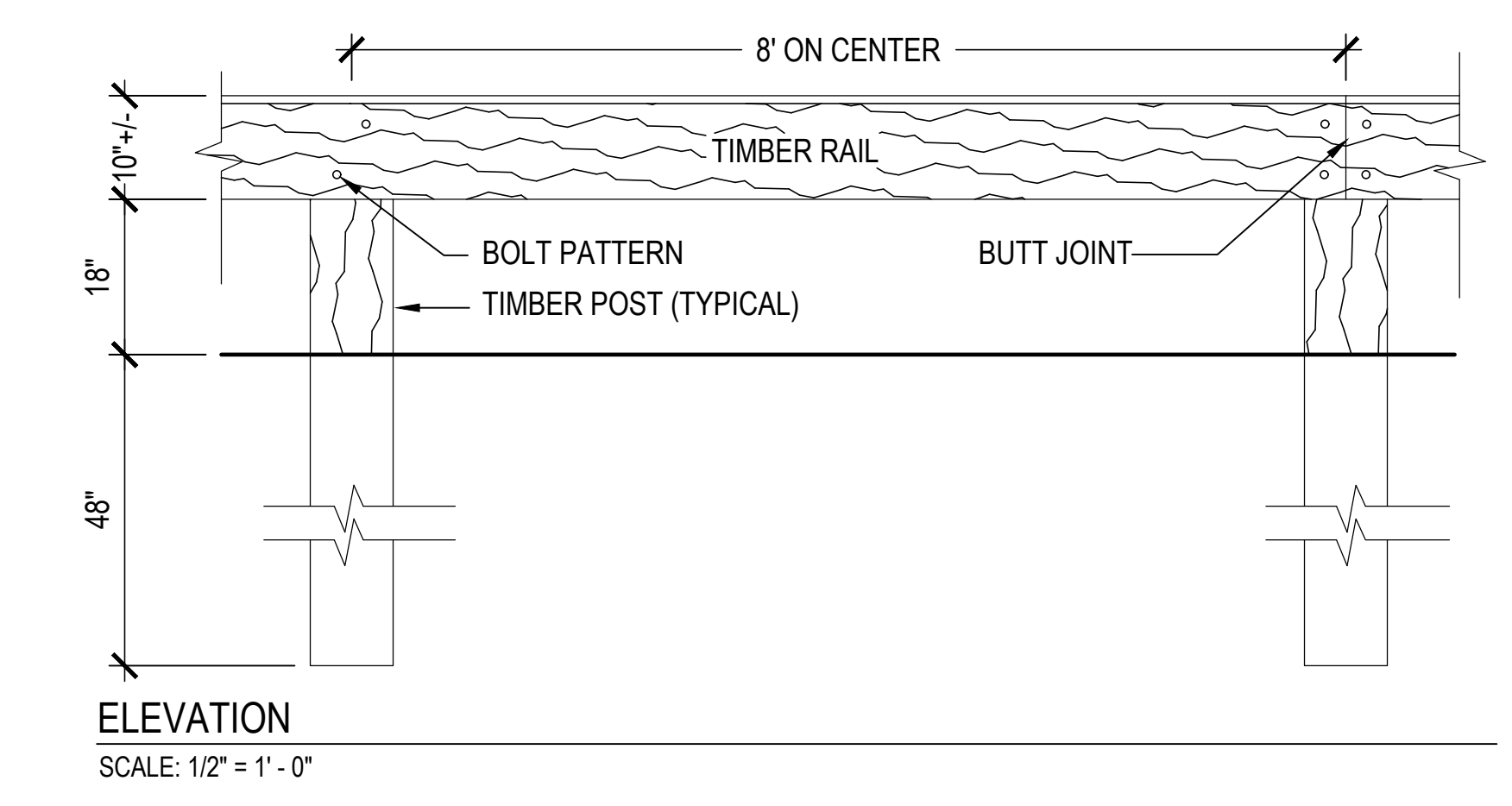




**8 CANTILEVERED SLIDE GATE**  
SCALE: 1/2" = 1'-0"



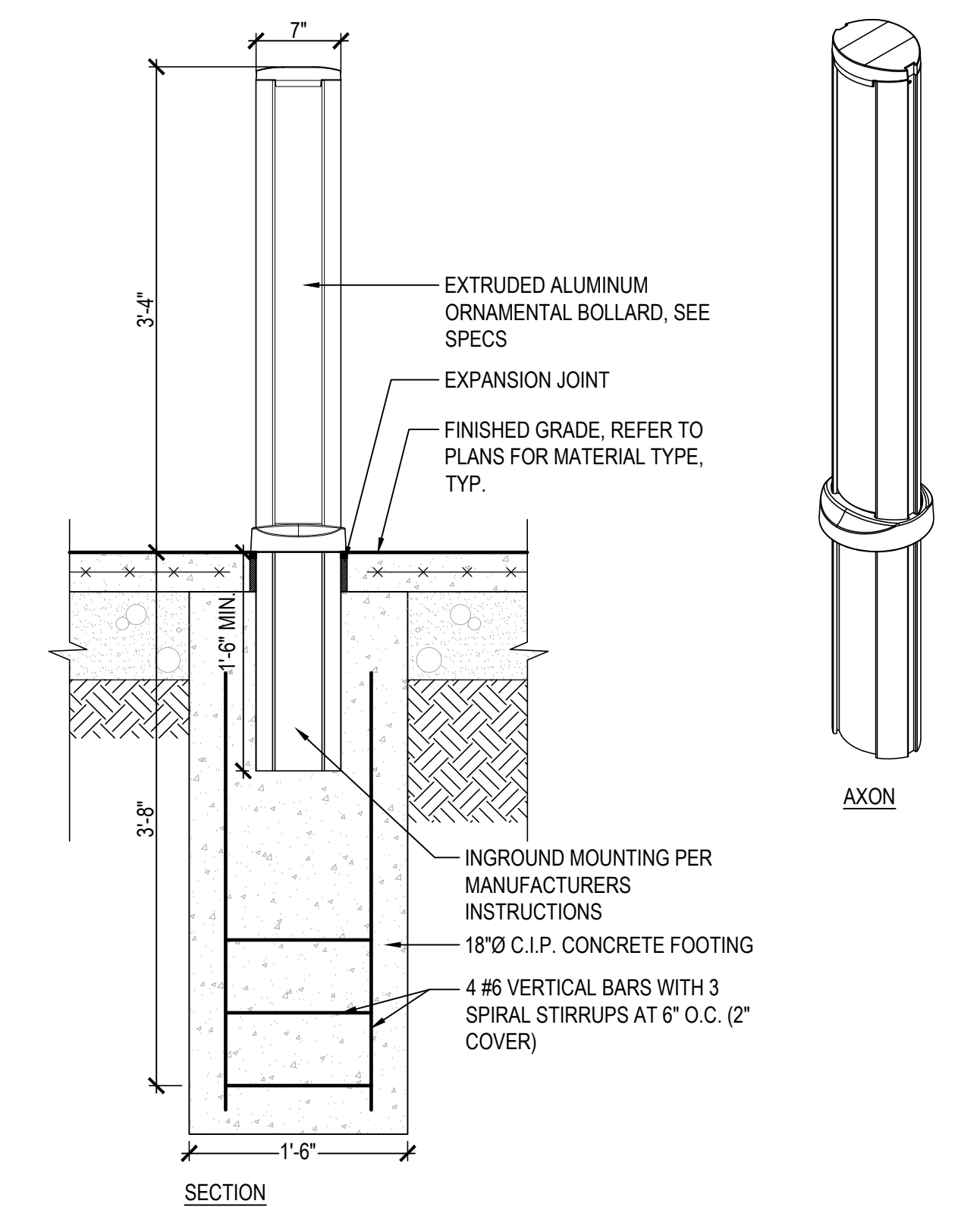
**SECTION**  
SCALE: 1" = 1'-0"



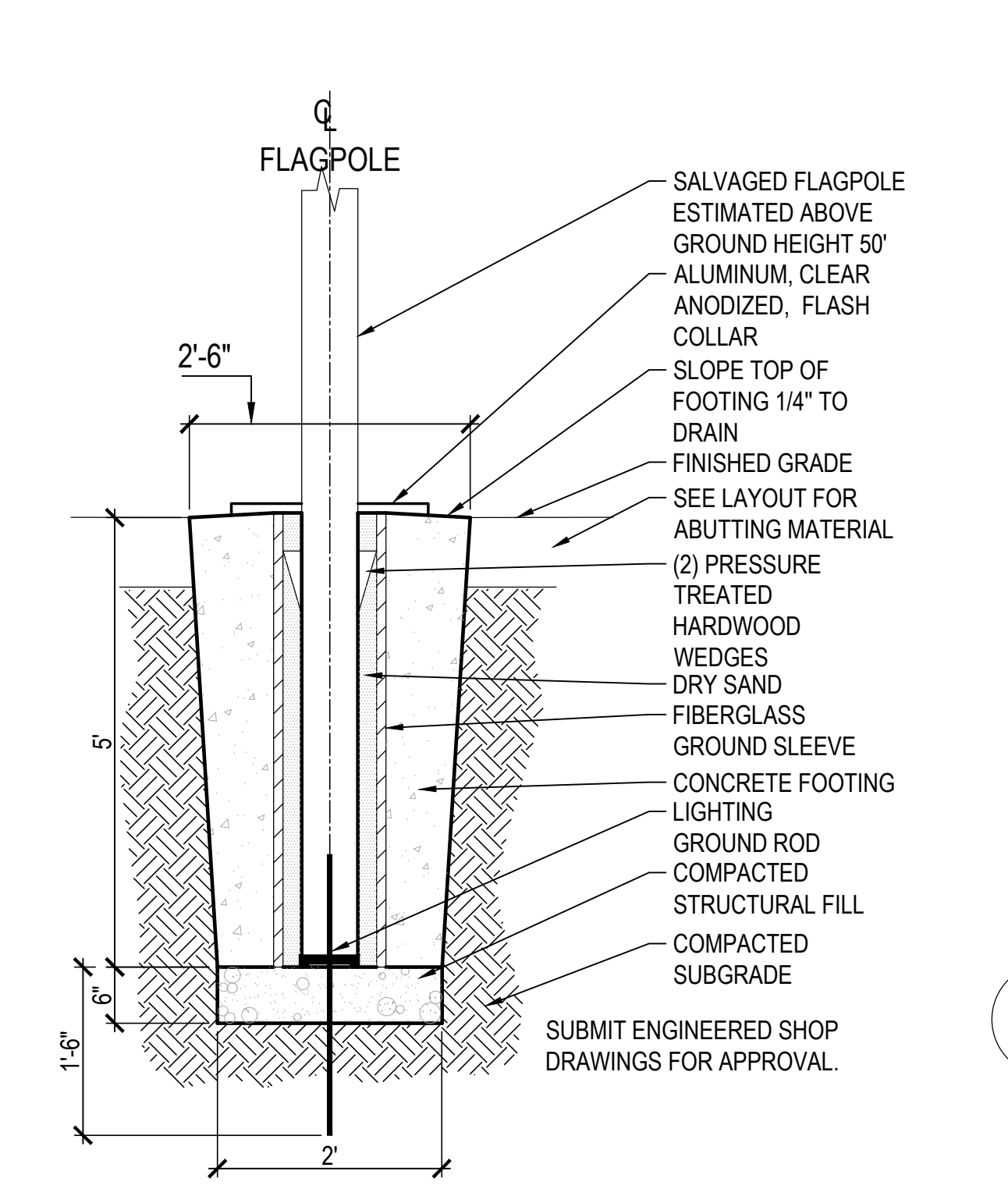
**ELEVATION**  
SCALE: 1/2" = 1'-0"

- NOTES:**
1. LINE OF POSTS SHALL BE INSTALLED STRAIGHT AND TRUE TO ALIGNMENT SHOWN ON PLAN.
  2. ALL POSTS SHALL BE INSTALLED PLUMB AND ALL RAILS SHALL BE PARALLEL TO FINISH GRADE.
  3. TIMBER RAIL LENGTHS SHALL BE 16'
  4. TIMBER POSTS AND RAILS SHALL BE ROUGH SAWN P.T. SOUTHERN YELLOW PINE, CLEAR HEARTWOOD FREE OF DEFECTS.
  5. SEE SPECIFICATIONS.

**13 CHAIN LINK FENCE FOOTING**  
SCALE: 1" = 1'-0"

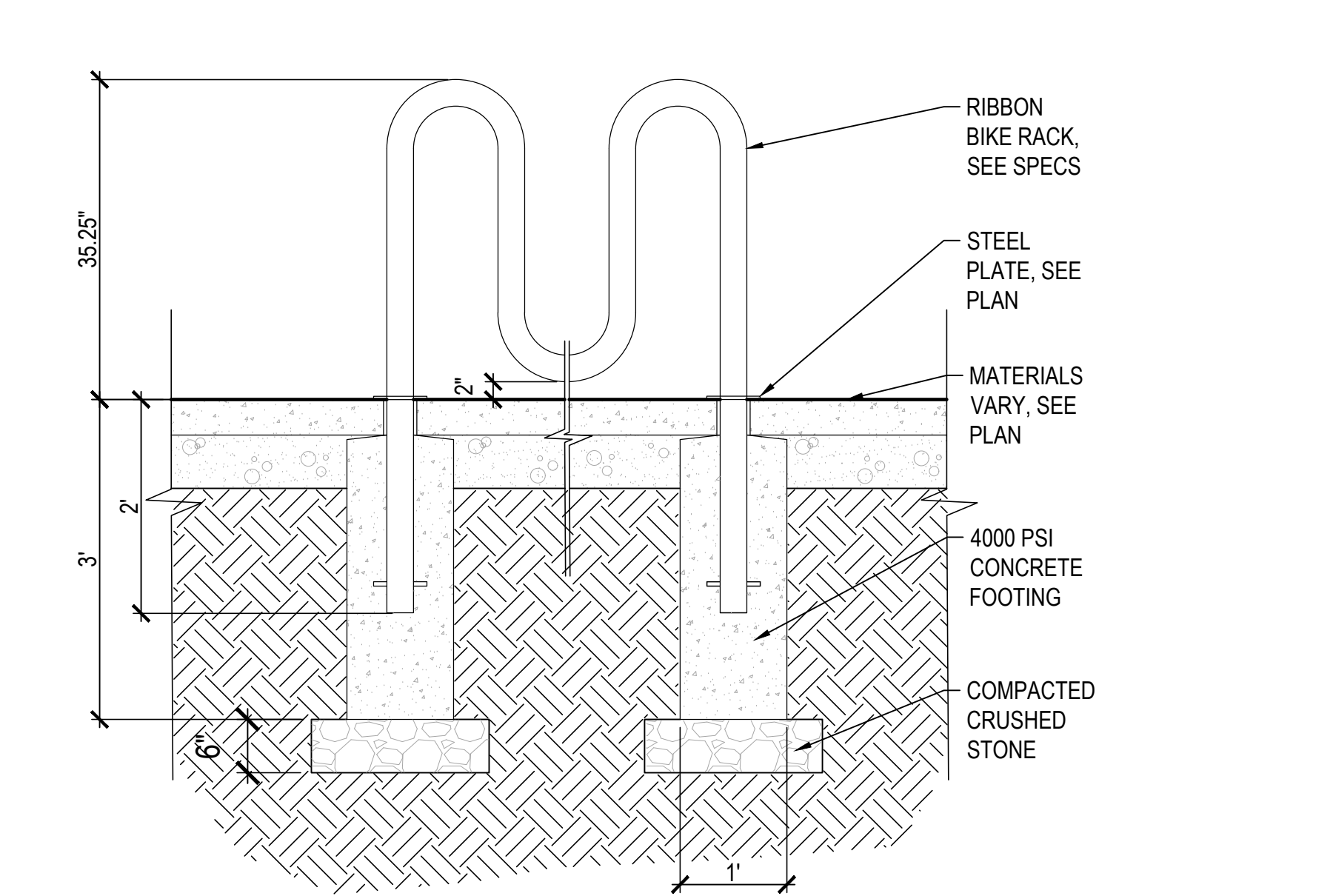


**14 ORNAMENTAL BOLLARD**  
SCALE: 1" = 1'-0"



**15 FLAG POLE FOOTING**  
SCALE: 3/4" = 1'-0"

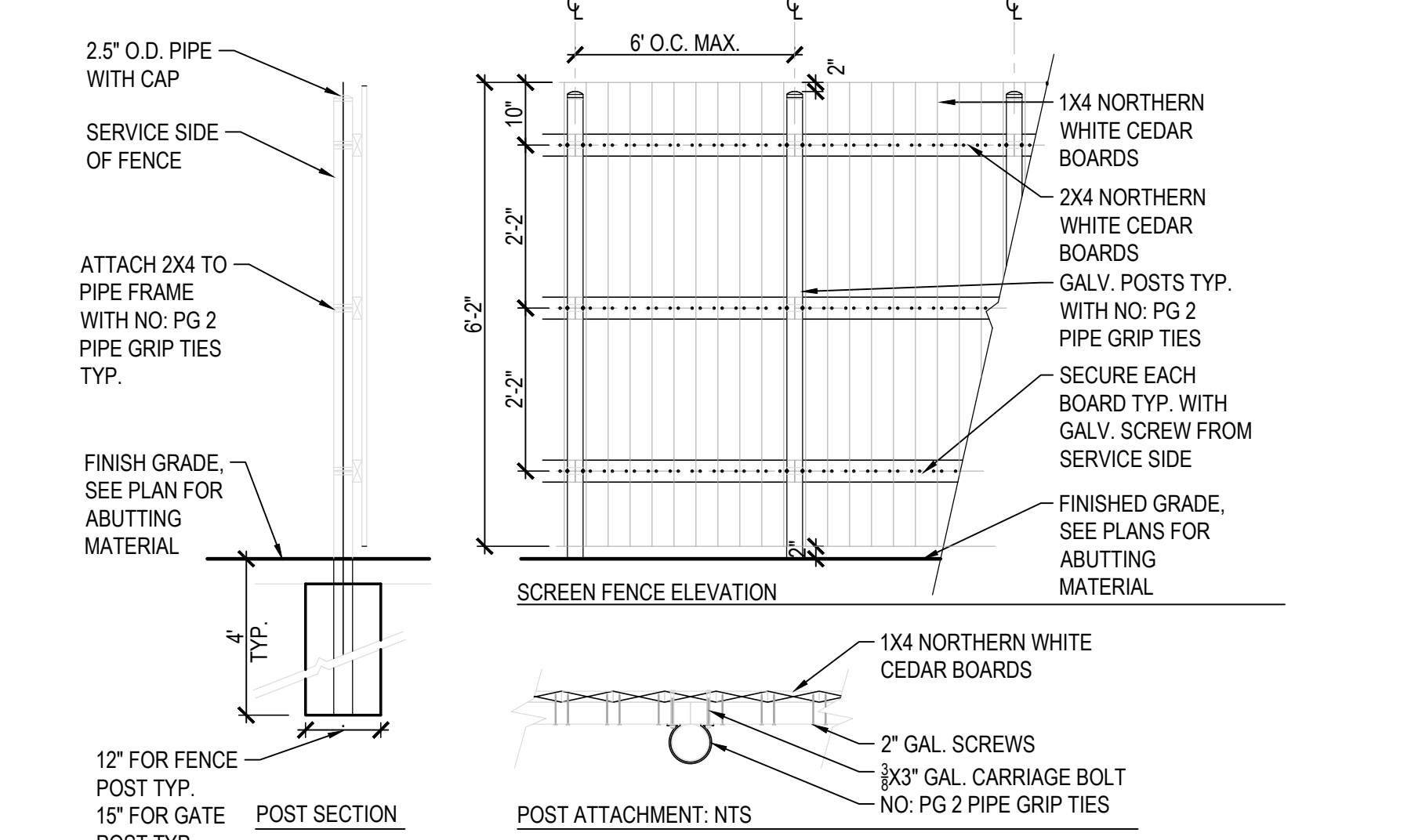
**11 ELECTRIC VEHICULAR GATE**  
SCALE: 1" = 1'-0"



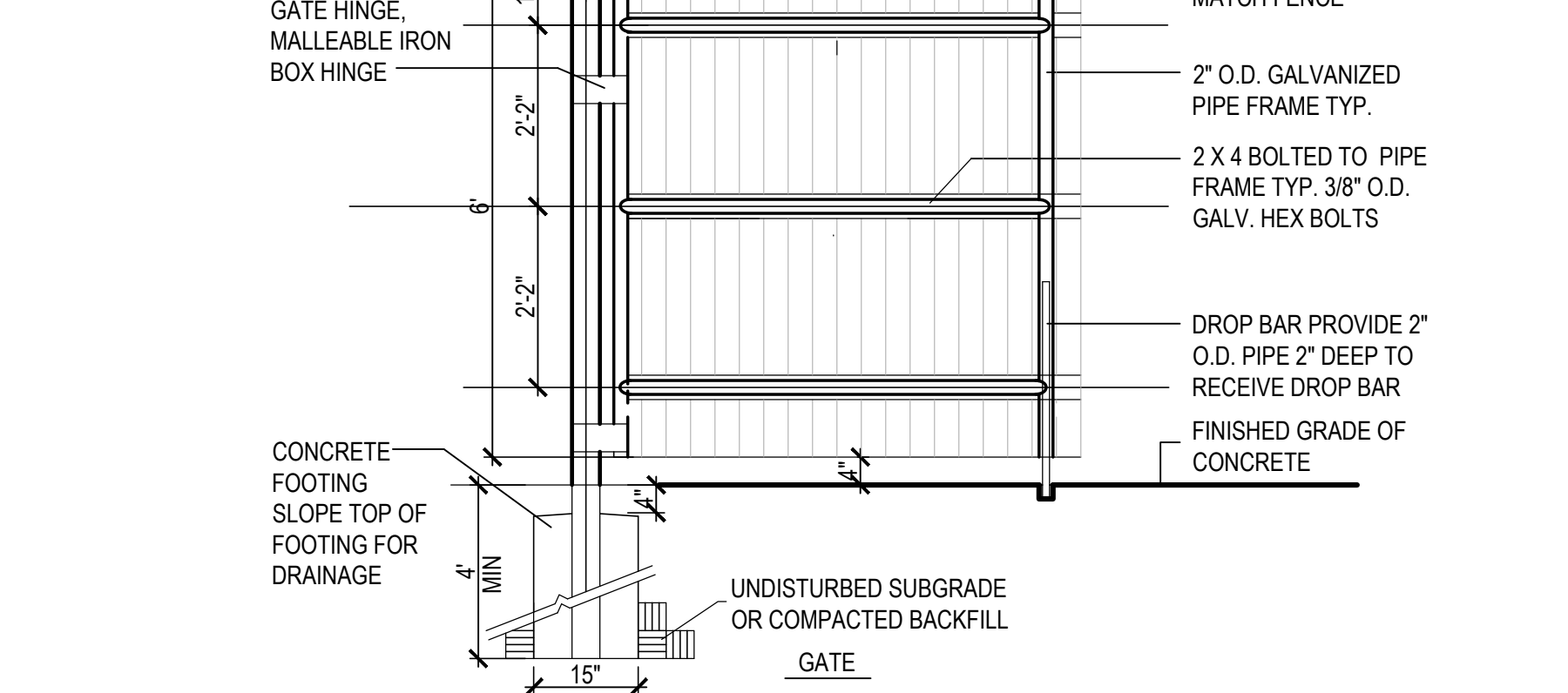
**12 RIBBON BIKE RACK**  
SCALE: 3/4" = 1'-0"



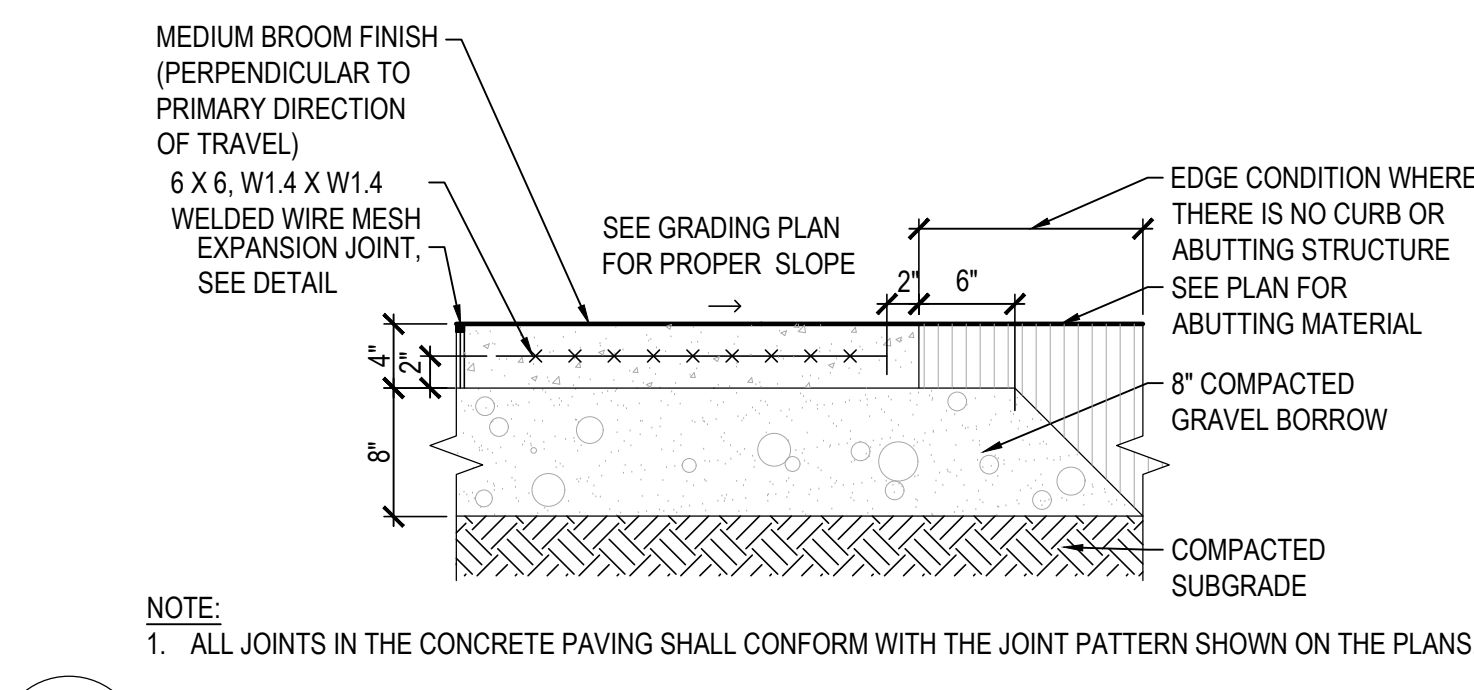
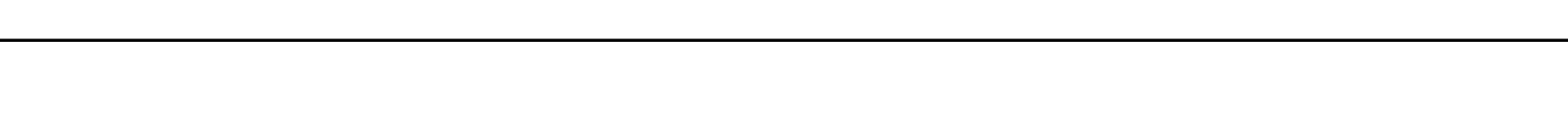
**9 TIMBER WOODEN GUIDERAIL**  
SCALE: 1 1/2" = 1'-0"



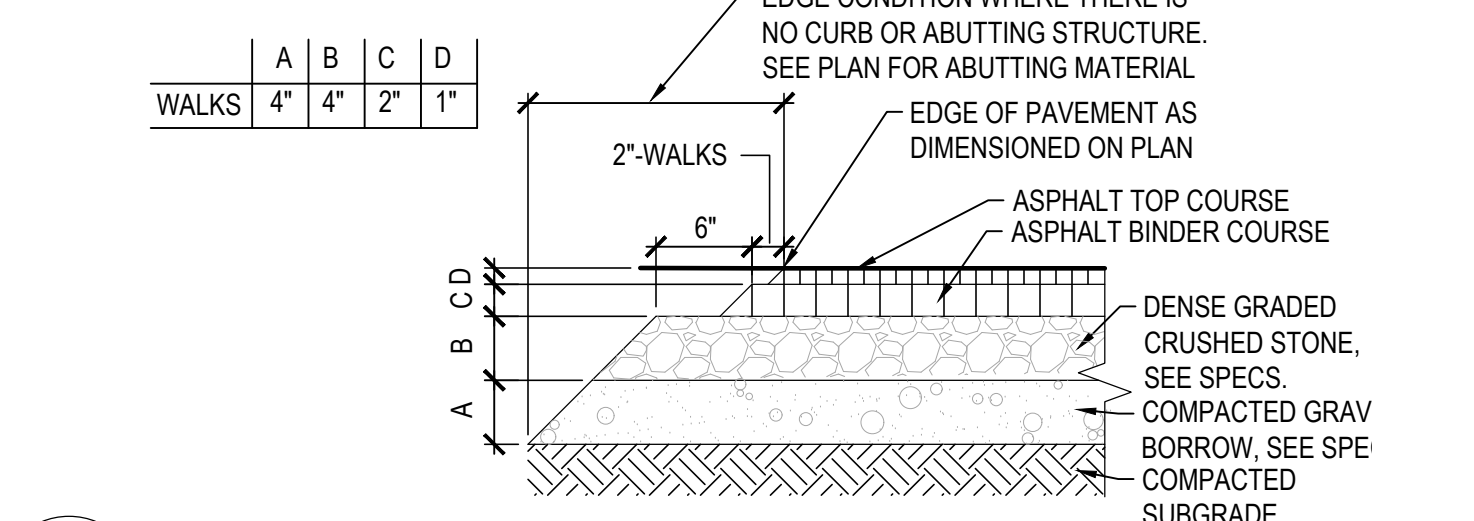
**POST SECTION**  
SCALE: 1/2" = 1'-0"



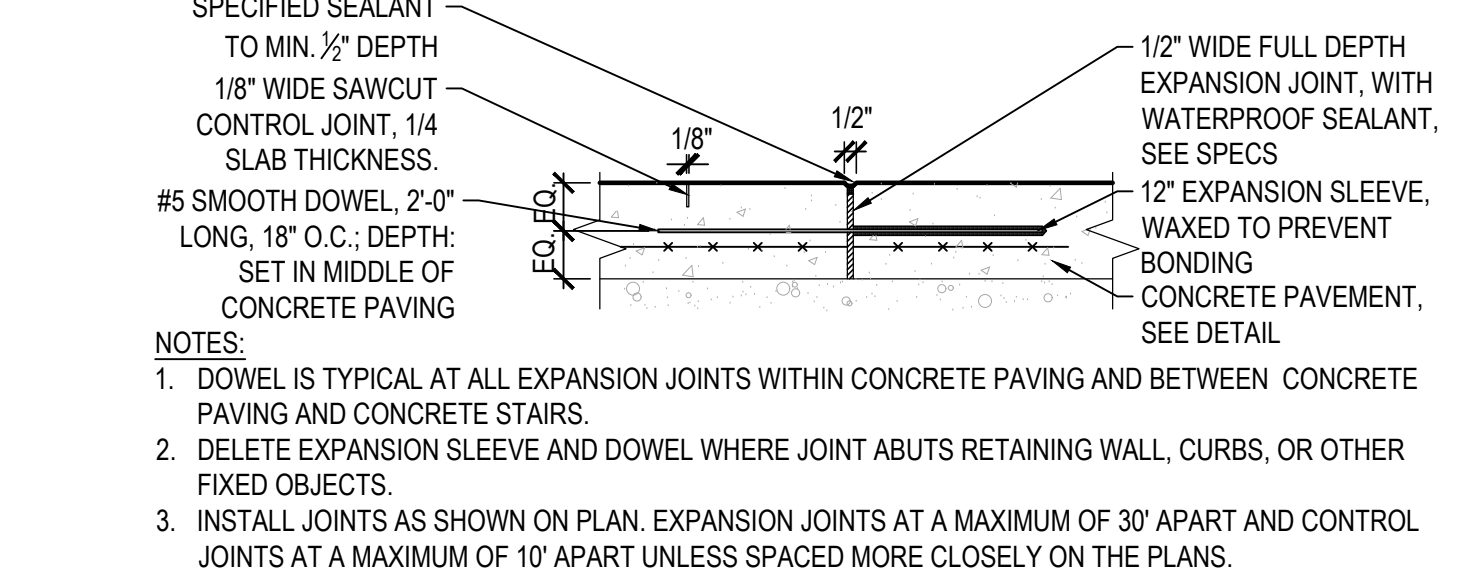
**10 WOOD SCREEN FENCE WITH PIPE FRAME**  
SCALE: 1/2" = 1'-0"



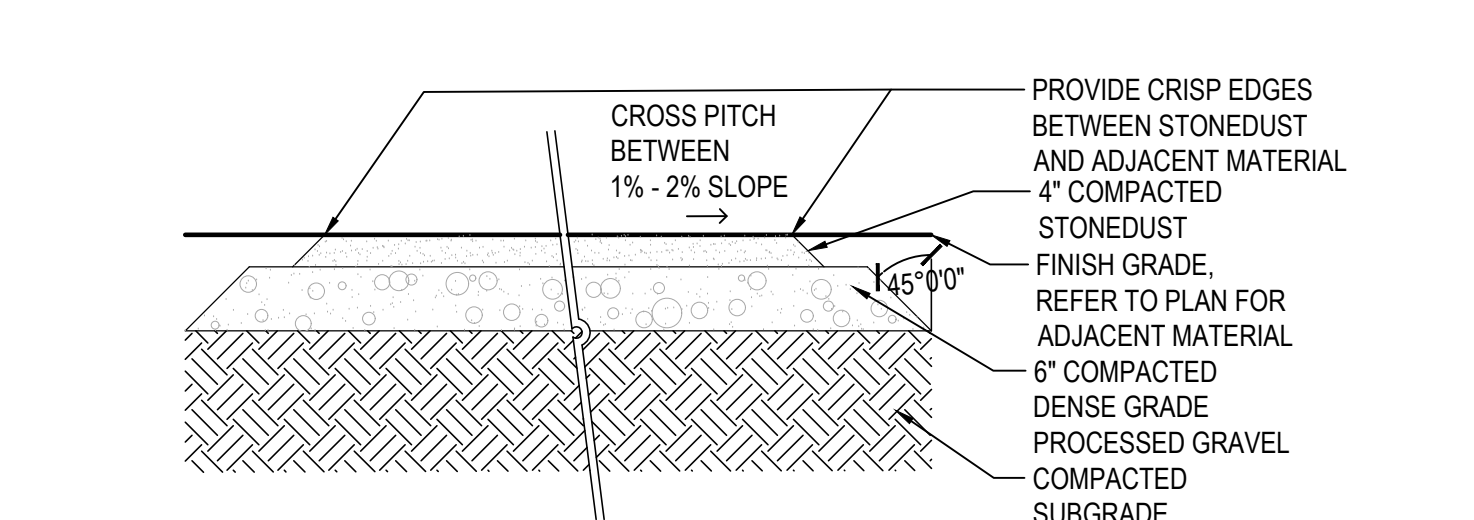
**1 CONCRETE WALKWAY PAVING**  
SCALE: 1" = 1'-0"



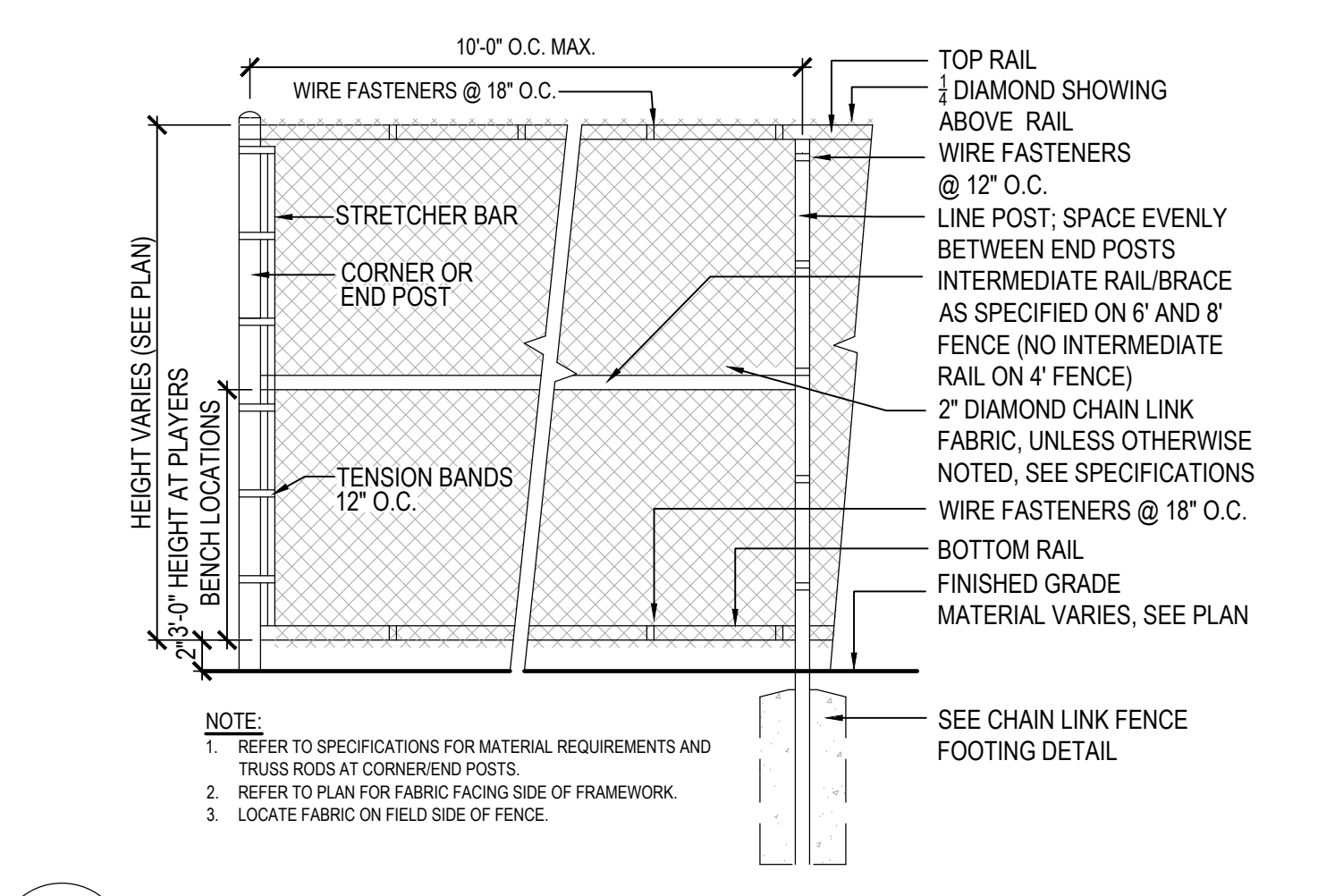
**2 ASPHALT WALKWAY PAVING**  
SCALE: 1" = 1'-0"



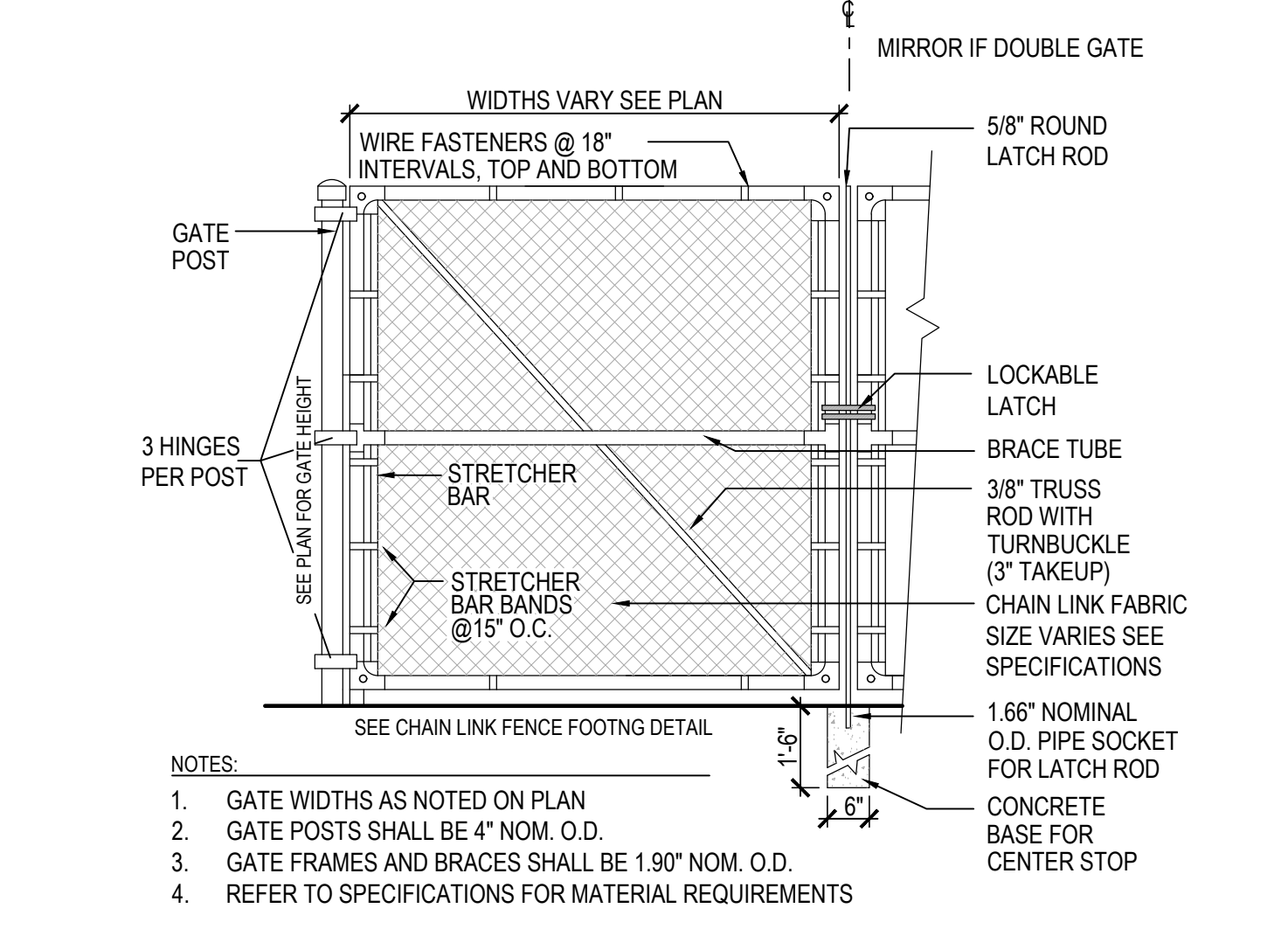
**3 EXPANSION JOINT**  
SCALE: 1" = 1'-0"



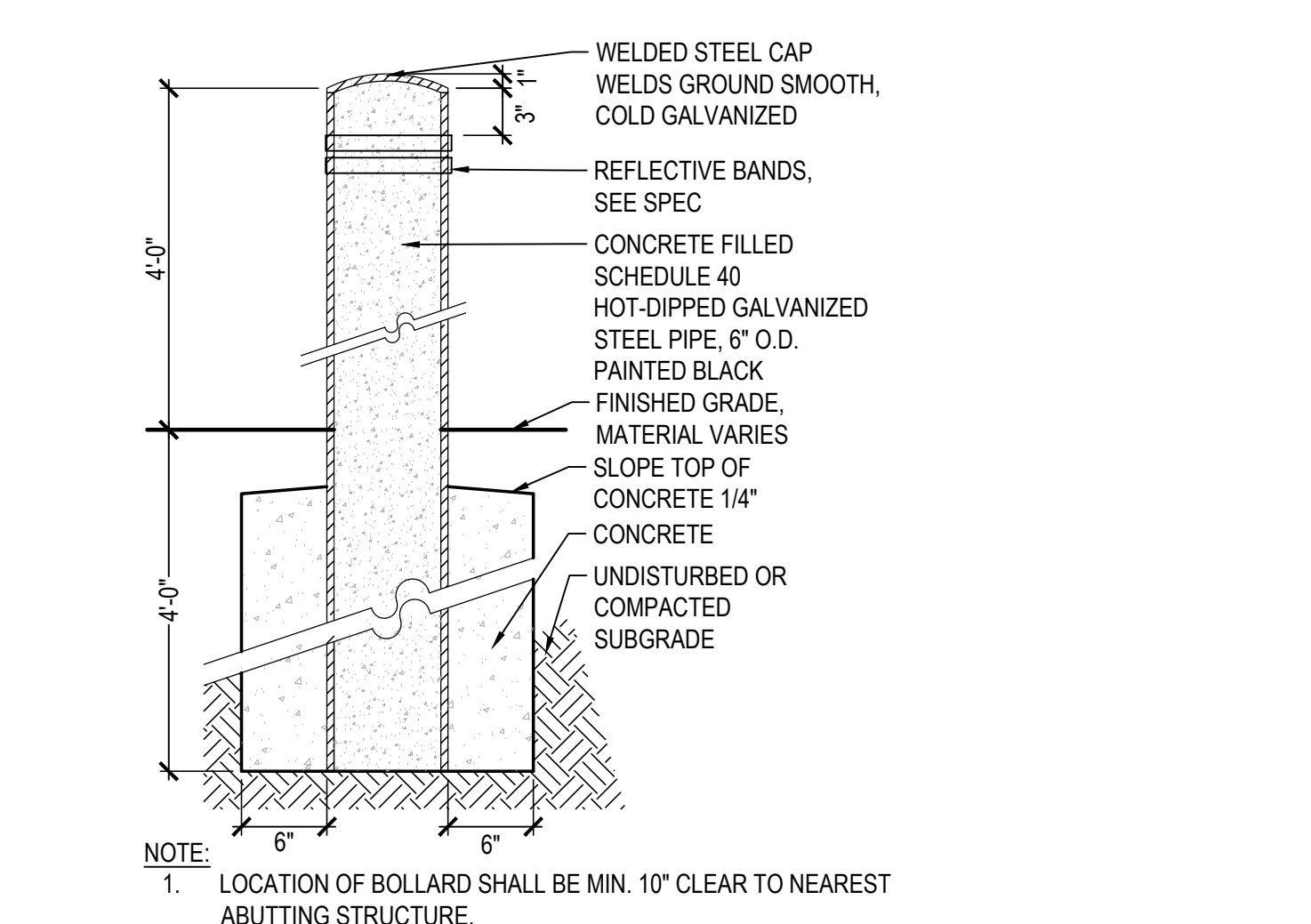
**4 STONEDUST SURFACING**  
SCALE: 1" = 1'-0"



**5 CHAIN LINK FENCE**  
SCALE: 1/2" = 1'-0"



**6 CHAIN LINK GATE**  
SCALE: 1/2" = 1'-0"



**7 CONCRETE FILLED STEEL BOLLARD**  
SCALE: 1" = 1'-0"

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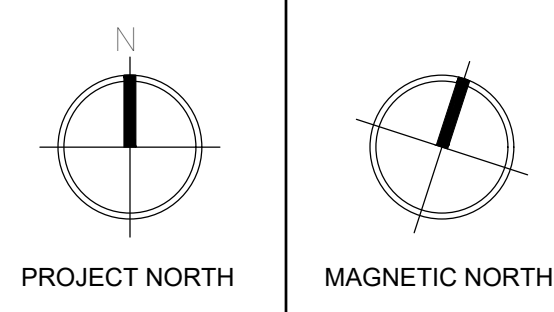
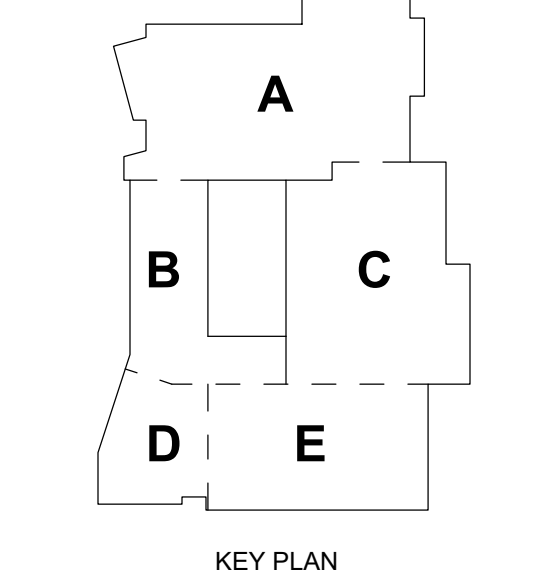
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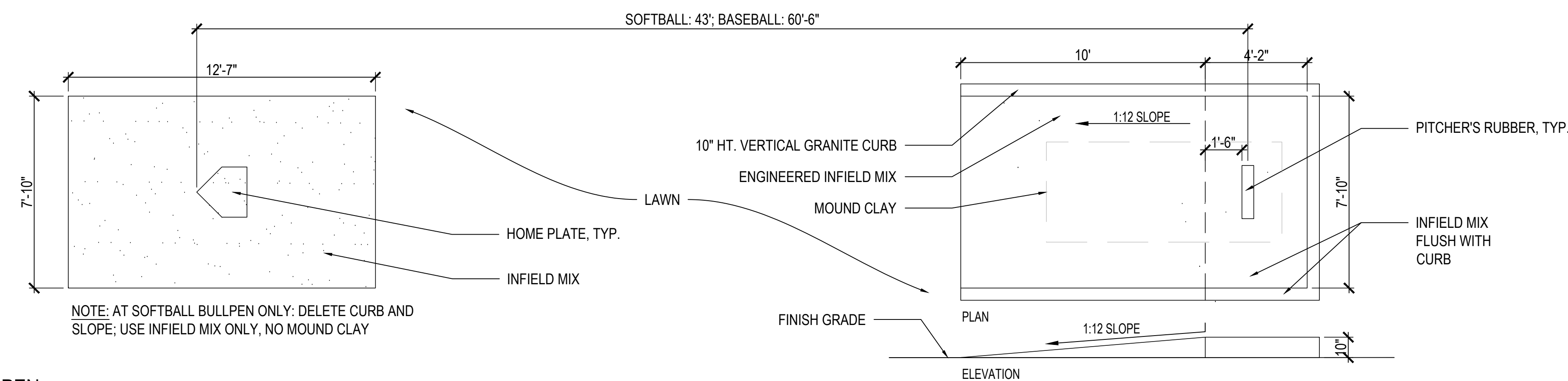
PROGRESS SET

June 14, 2024

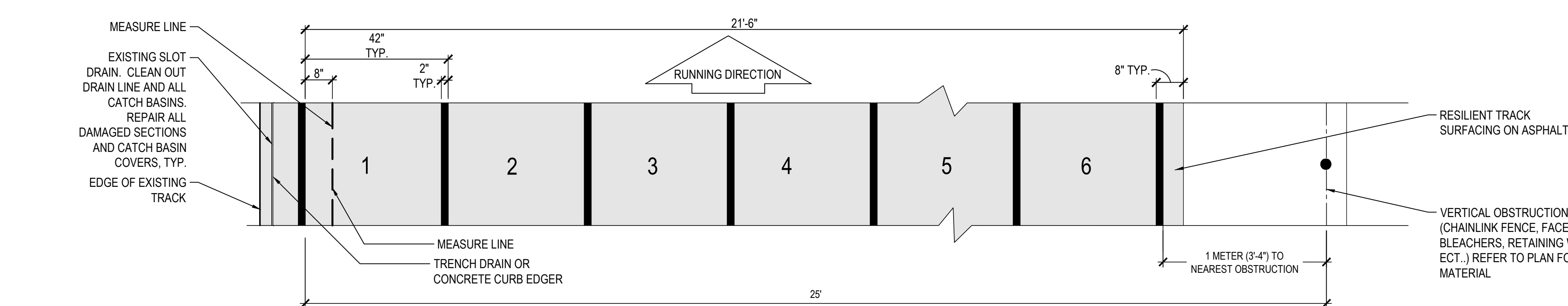


**DETAILS**

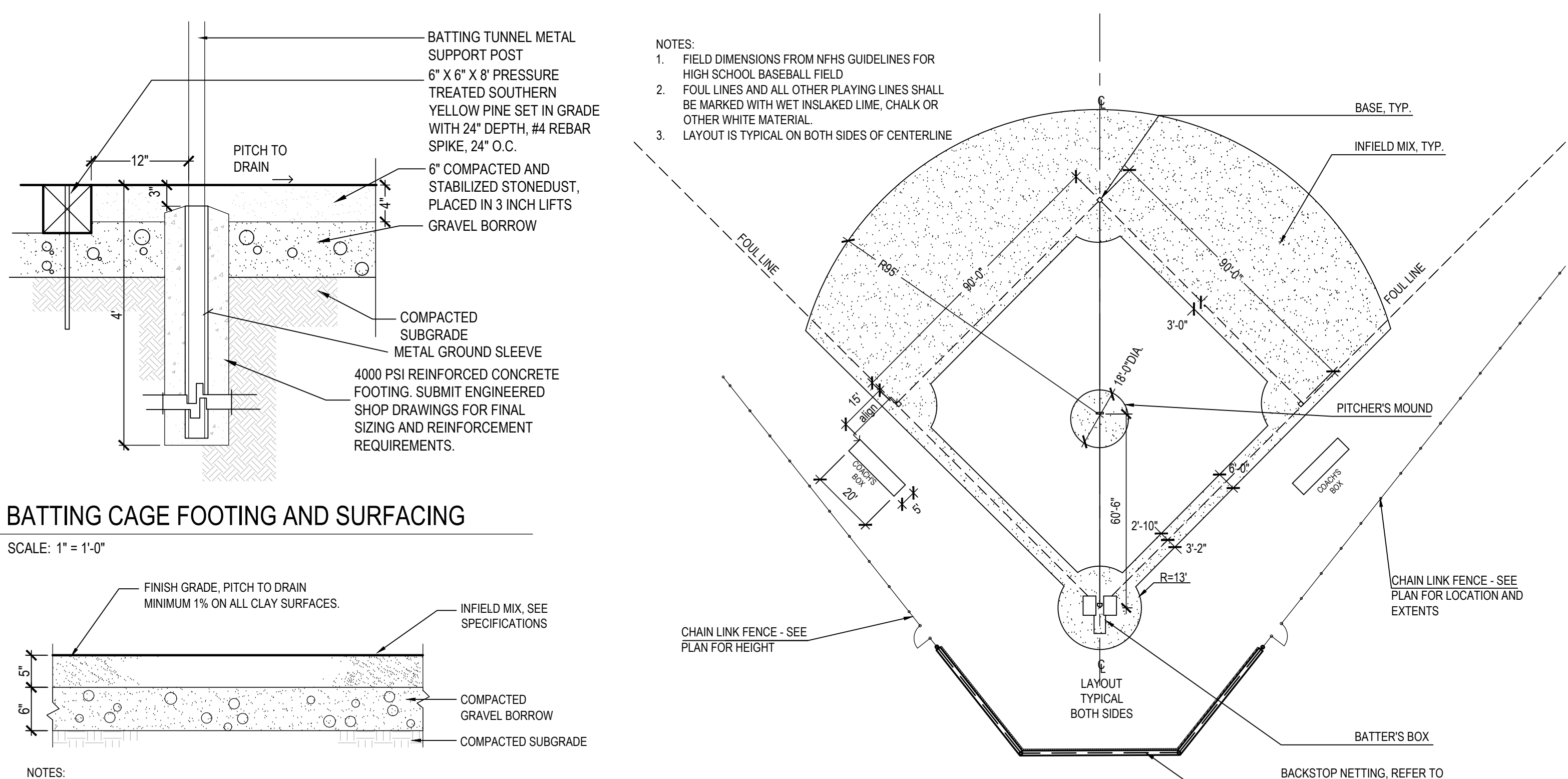
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Project: 22001.00  
Author: WLI  
Date: 4/26/2024  
**L501**



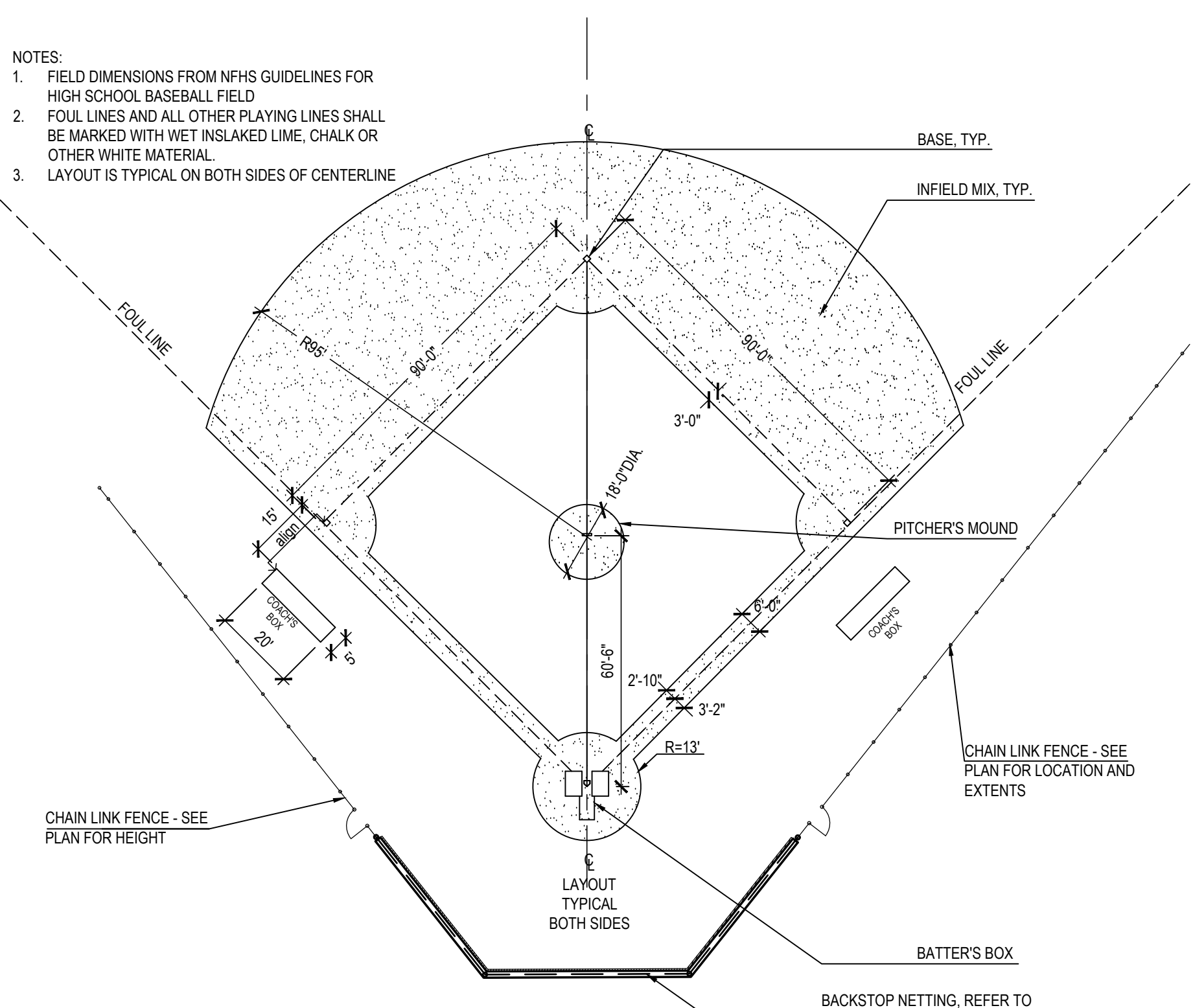
10 BULLPEN  
SCALE: 7/16" = 1'-0"



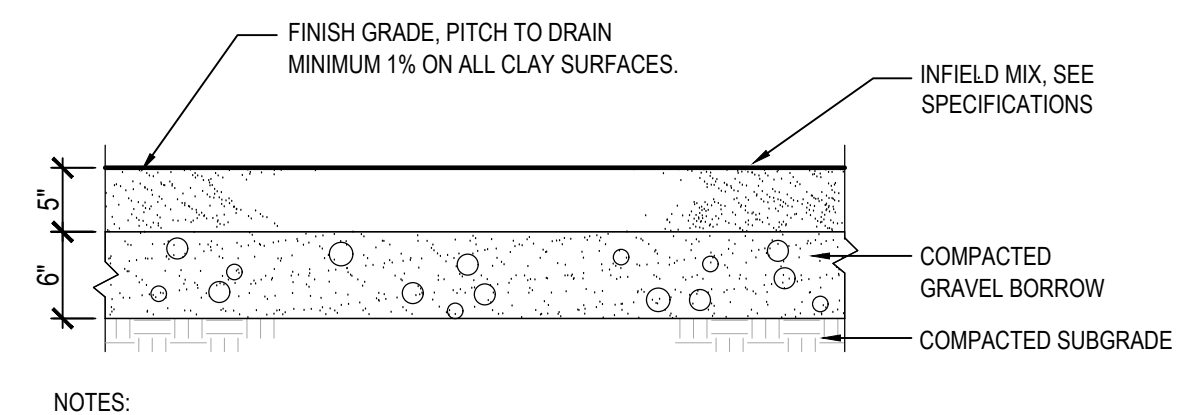
1 TRACKLANEDETAIL-6 LANE  
SCALE: 1/2" = 1'-0"



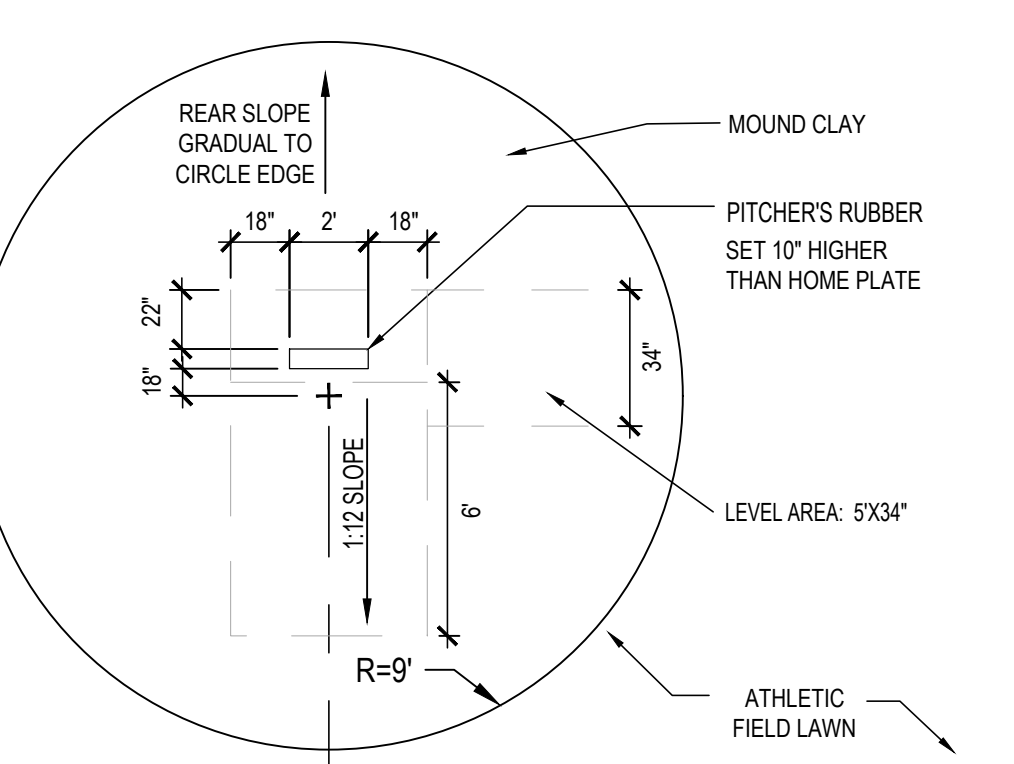
13 BATTING CAGE FOOTING AND SURFACING  
SCALE: 1" = 1'-0"



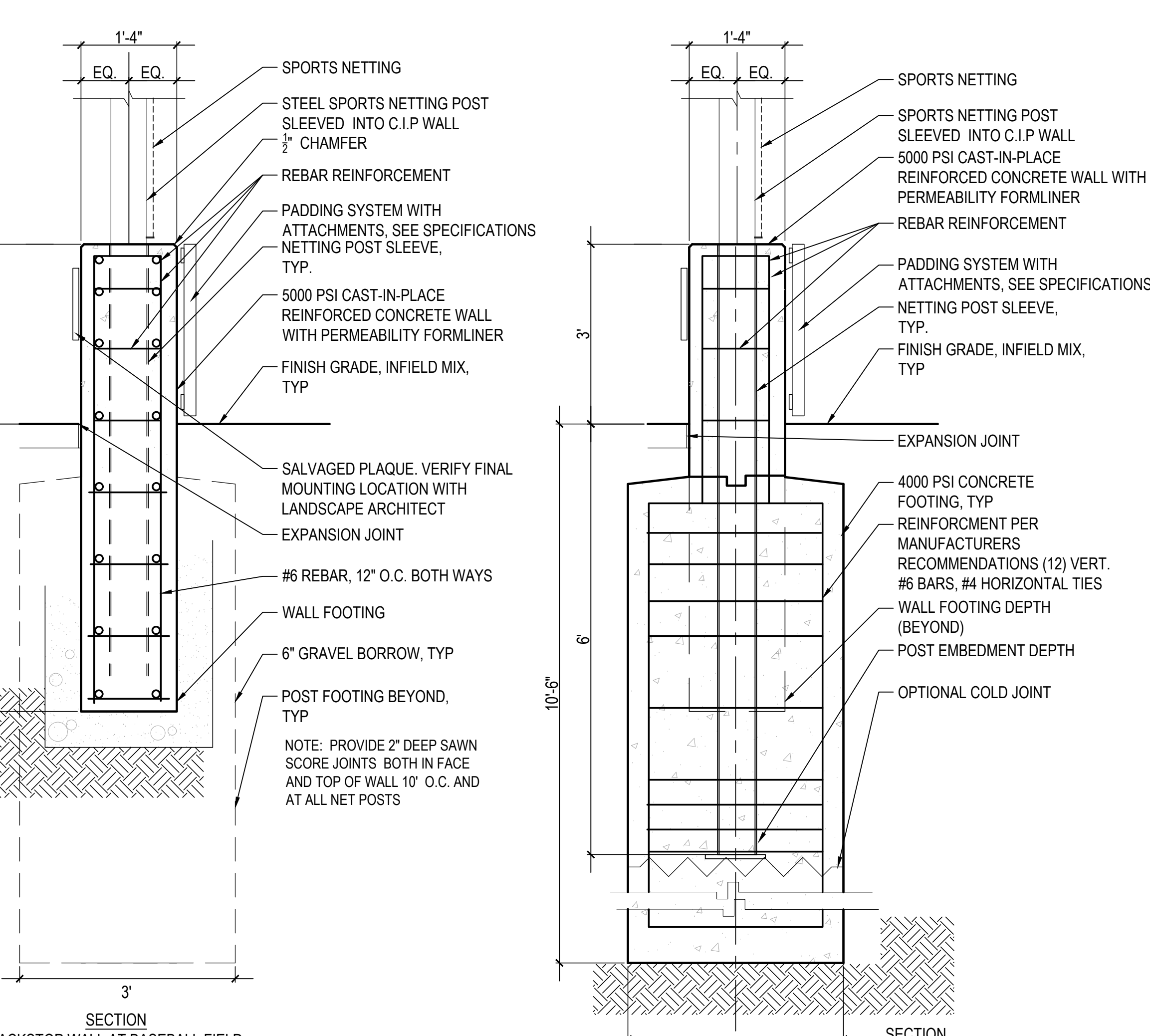
11 BASEBALL INFIELD LAYOUT  
SCALE: 1" = 30'



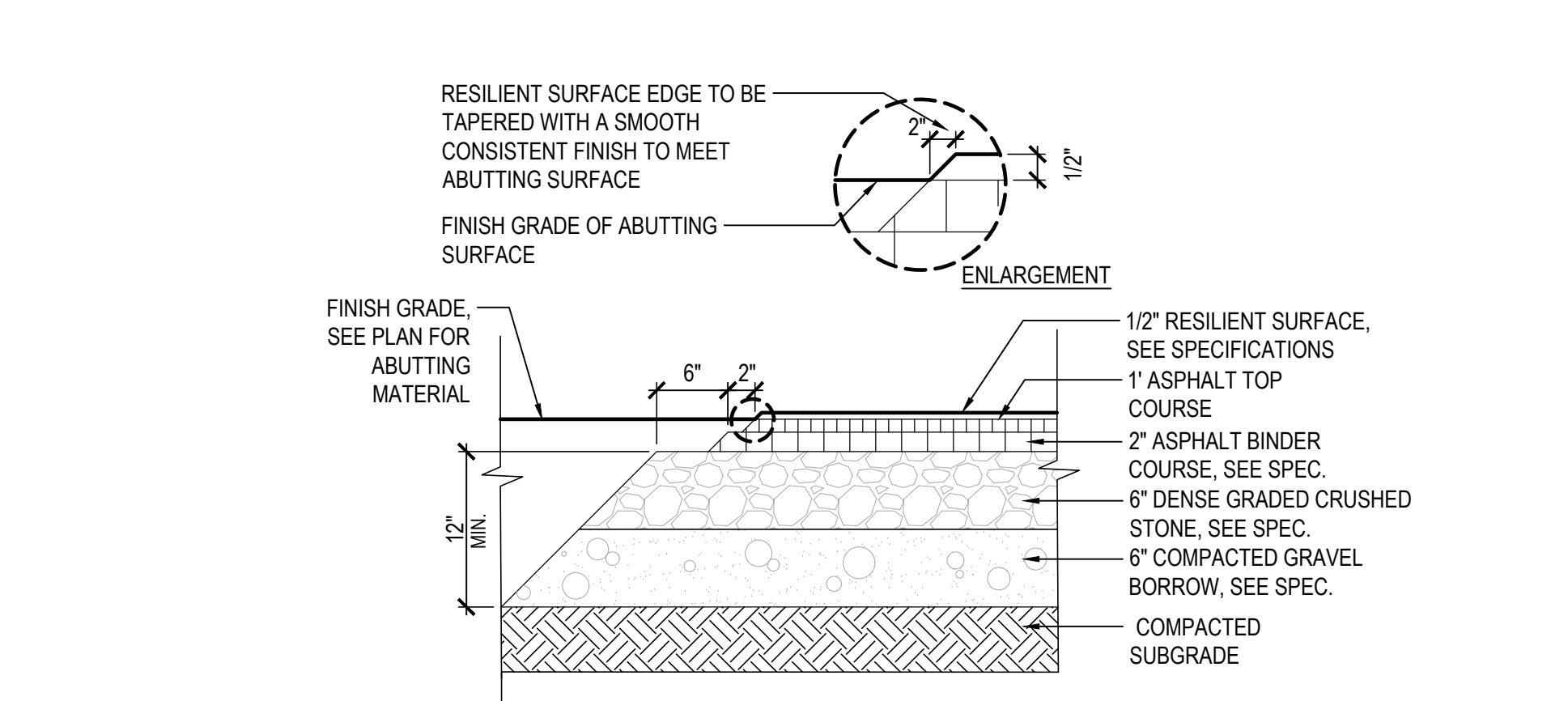
14 CLAY INFIELD MIX  
SCALE: 1" = 1'-0"



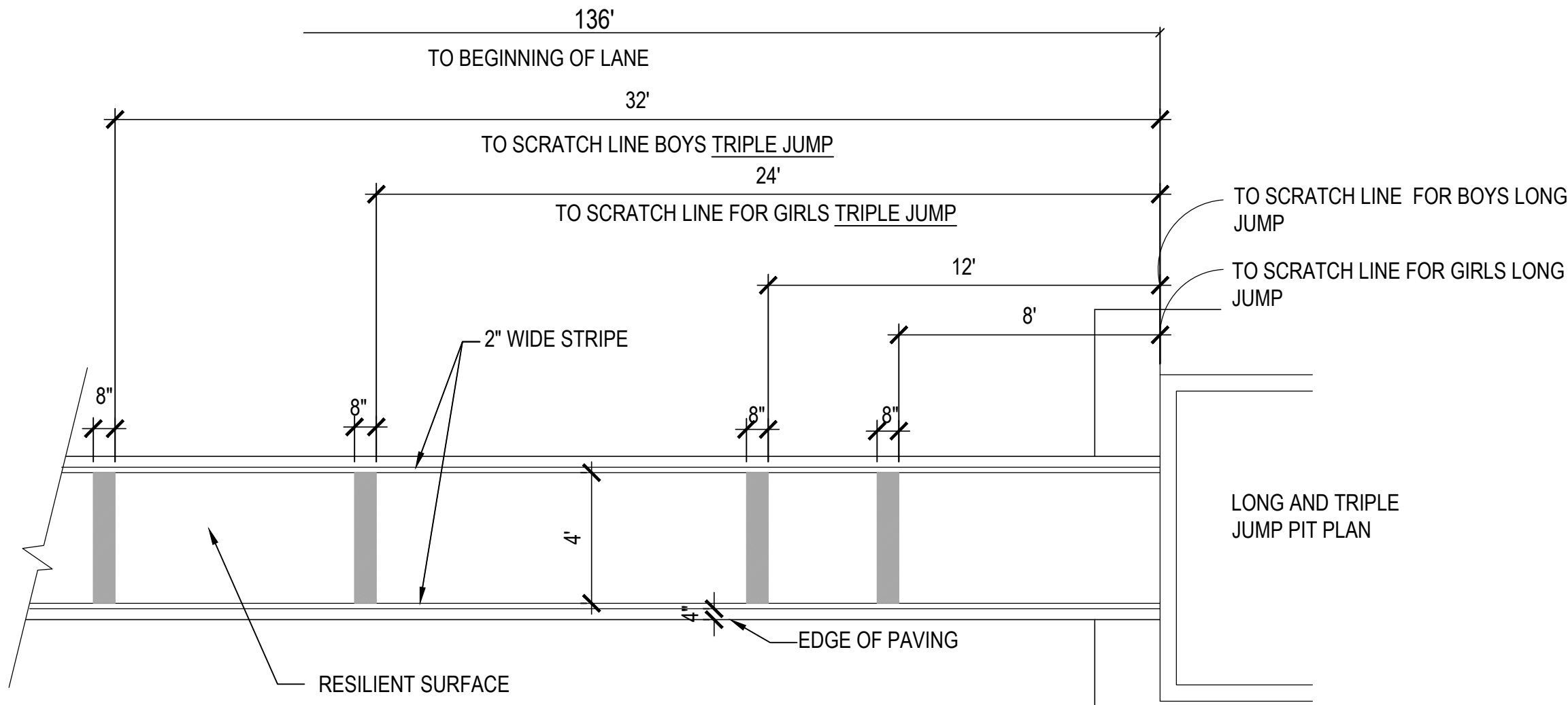
15 BASEBALL PITCHERS MOUND PLAN  
SCALE: 1/4" = 1'-0"



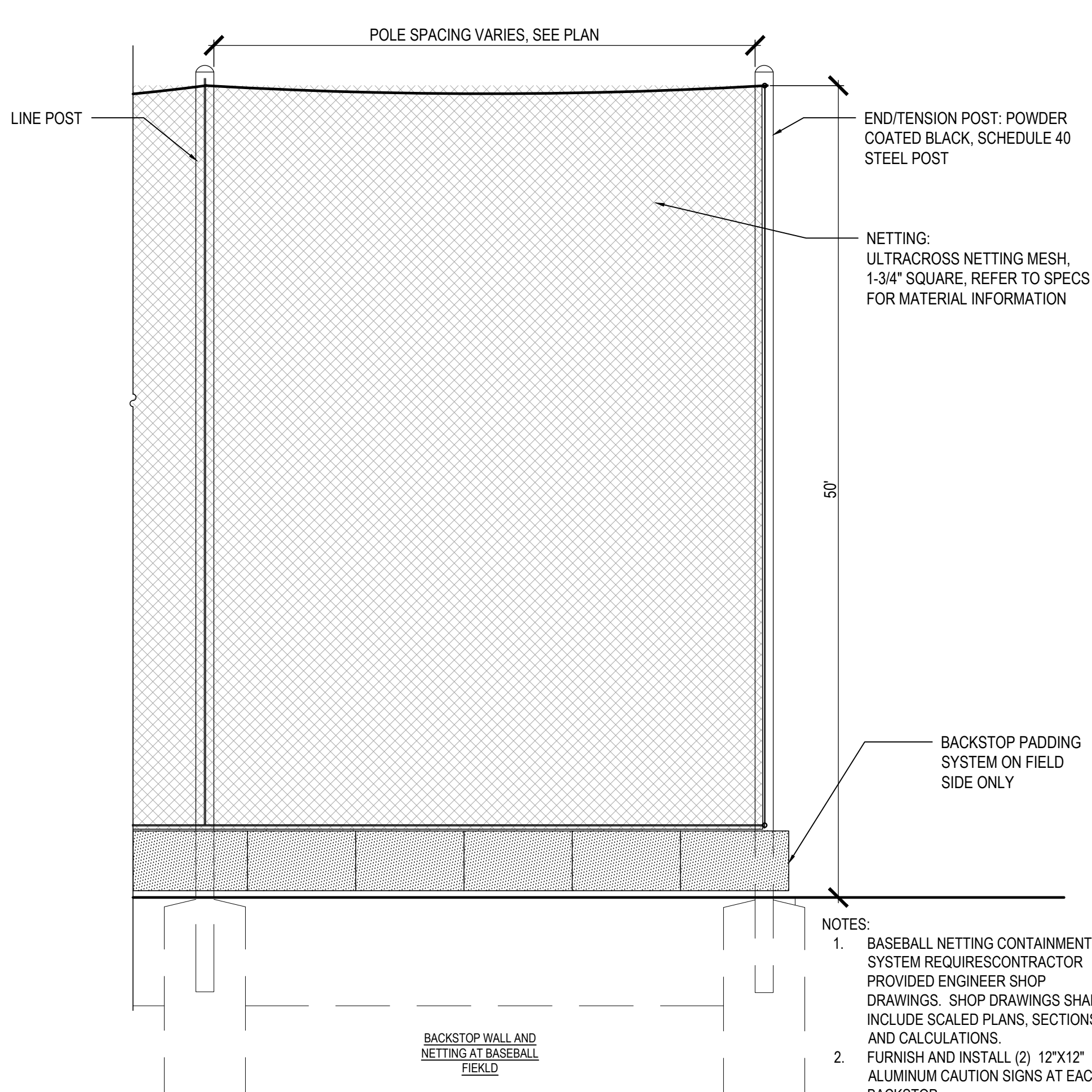
12 BASEBALL BACKSTOP FOOTING  
SCALE: 3/4" = 1'-0"



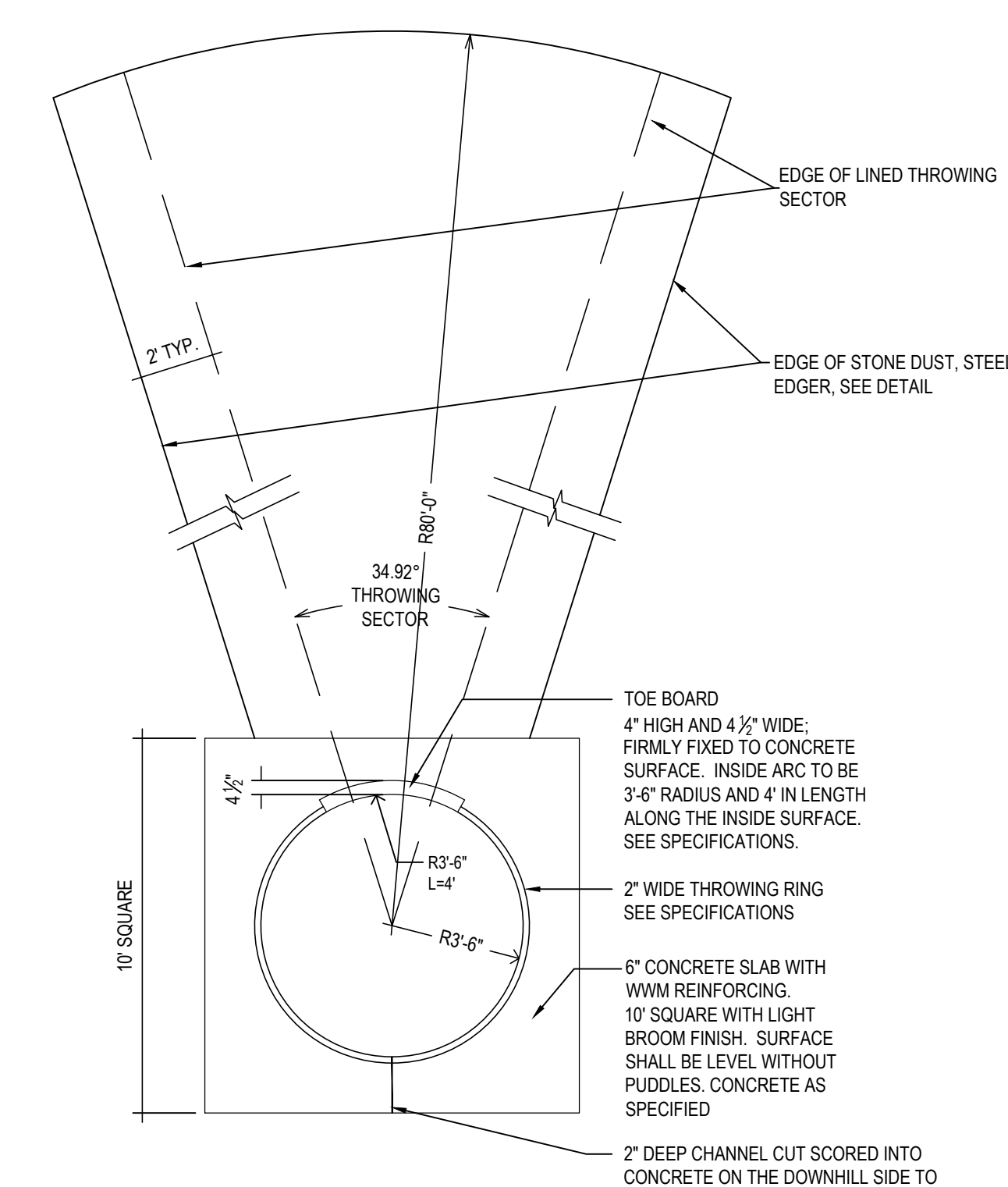
7 RESILIENT TRACK SURFACE  
SCALE: 1" = 1'-0"



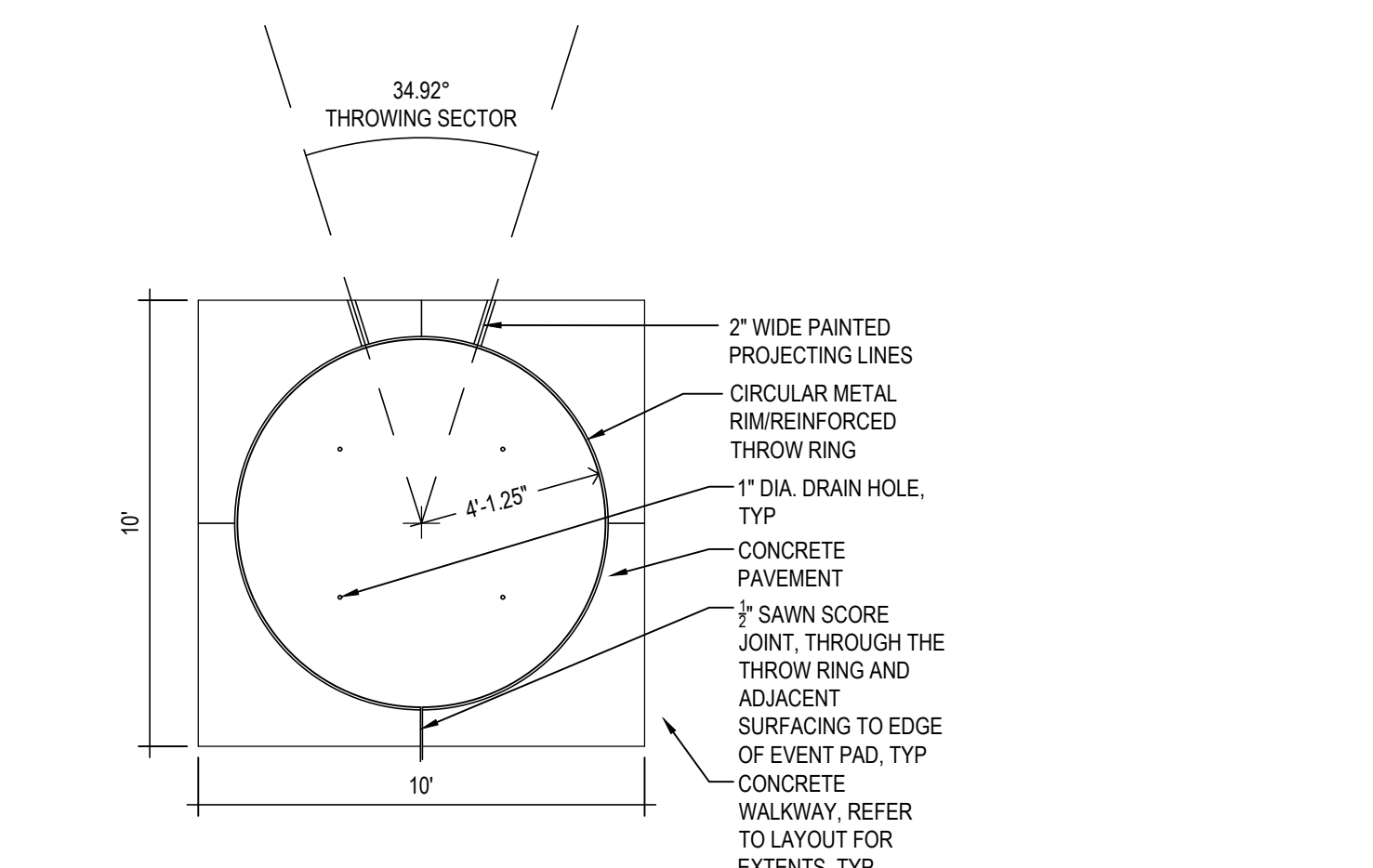
8 LONG-TRIPLE JUMP LINE PLAN  
SCALE: 1/4" = 1'-0"



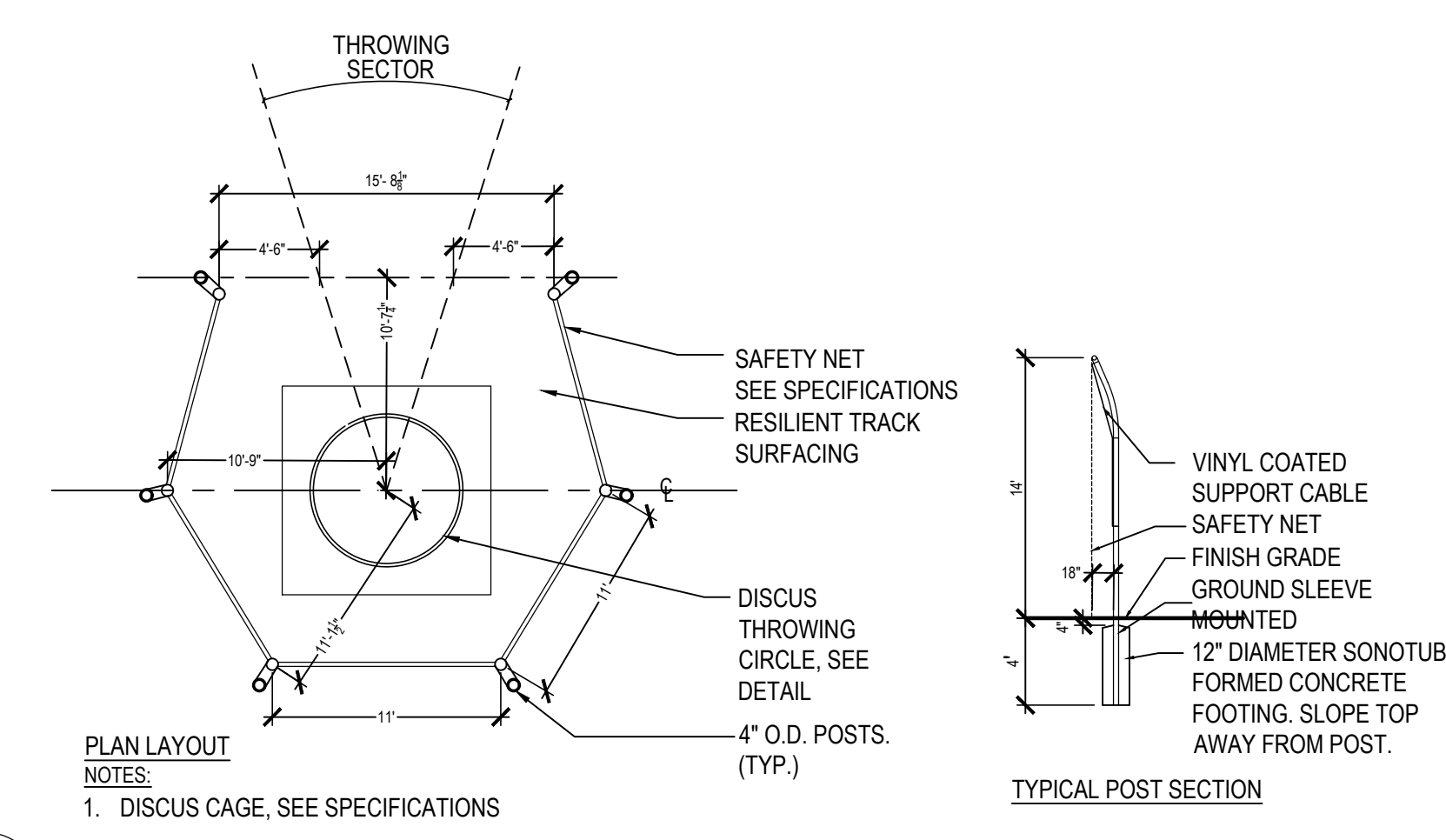
9 BASEBALL BACKSTOP DETAILS  
SCALE: 1/4" = 1'-0"



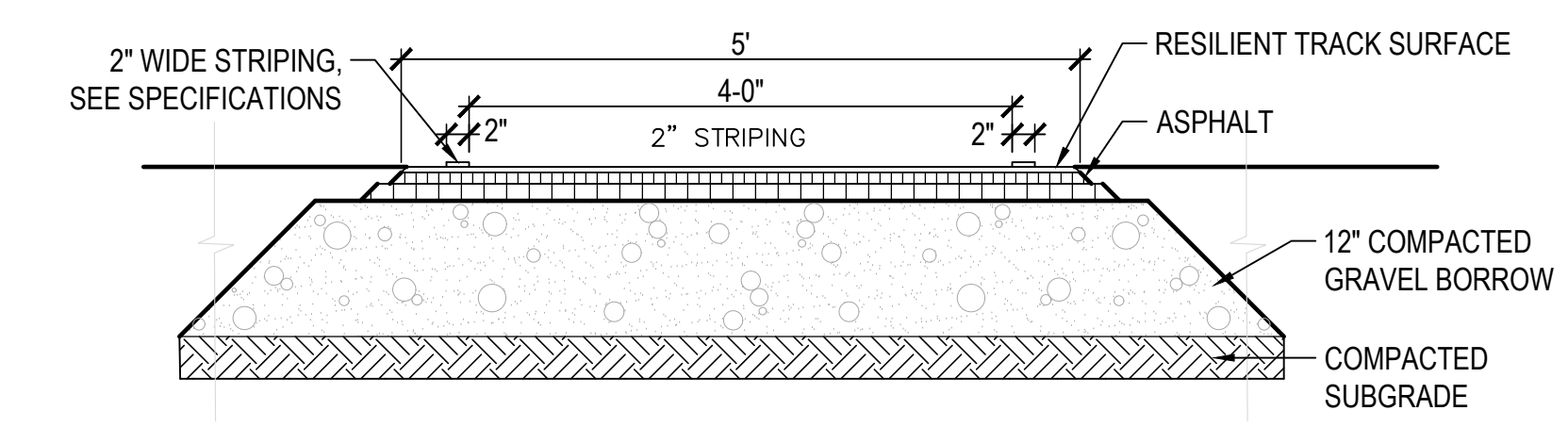
2 SHOTPUT  
SCALE: 1/4" = 1'-0"



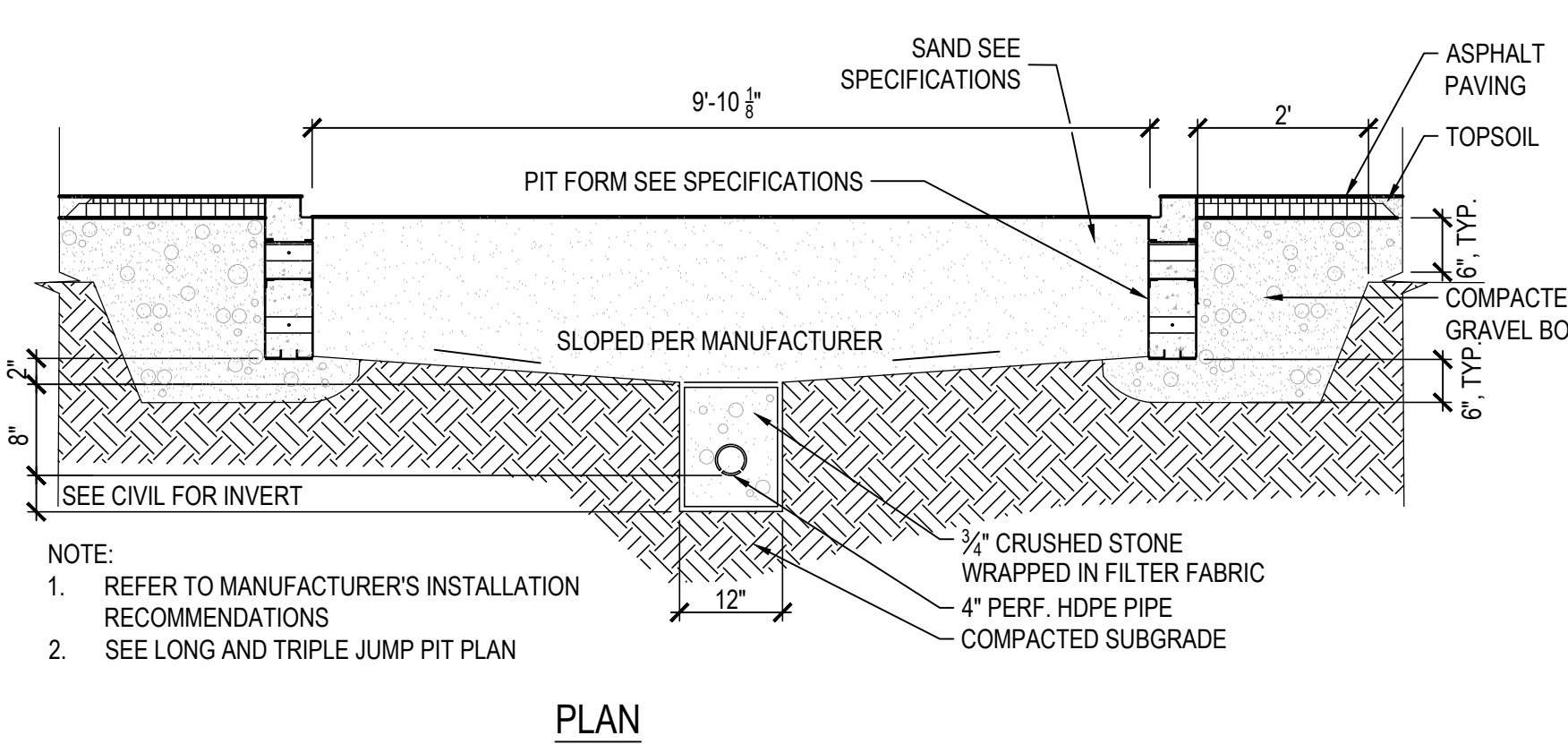
3 DISCUS PAD  
SCALE: 1/4" = 1'-0"



4 DISCUS ENCLOSURE  
SCALE: 1/8" = 1'-0"



5 LONG JUMP LANE SECTION  
SCALE: 3/4" = 1'-0"



6 LONG JUMP PIT SECTION  
SCALE: 1/2" = 1'-0"

**DRA**  
Drummeary Rosane Anderson, Inc.  
200 Charles Street  
Waltham, MA 02453  
225 Oakland Road  
South Windsor, CT 06074  
Tel: 617.864.1700  
www.dra.com

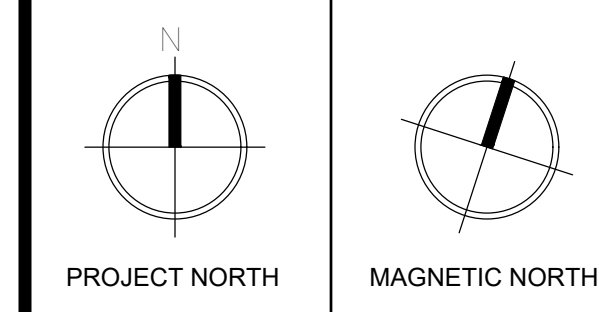
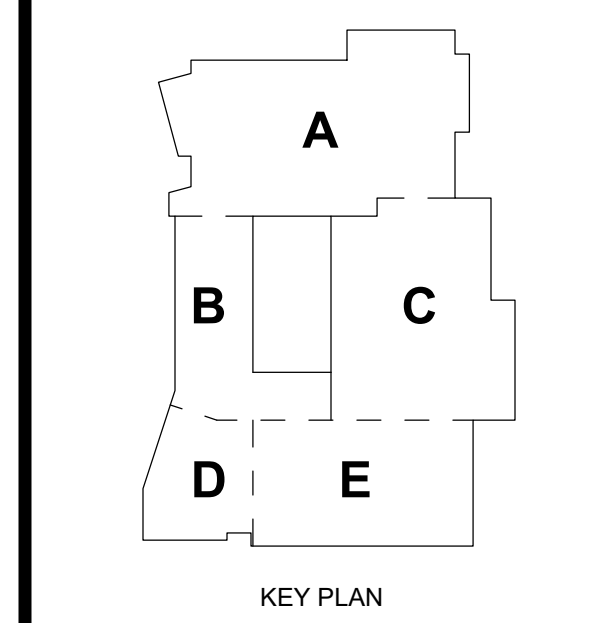
**Tri-County Regional Vocational Technical High School**

147 Pond St, Franklin, MA 02038

**WARNER LARSON**  
LANDSCAPE ARCHITECTS  
100 WEST BROADWAY, BOSTON MA 02107  
617-464-1440  
warnerlarson.com

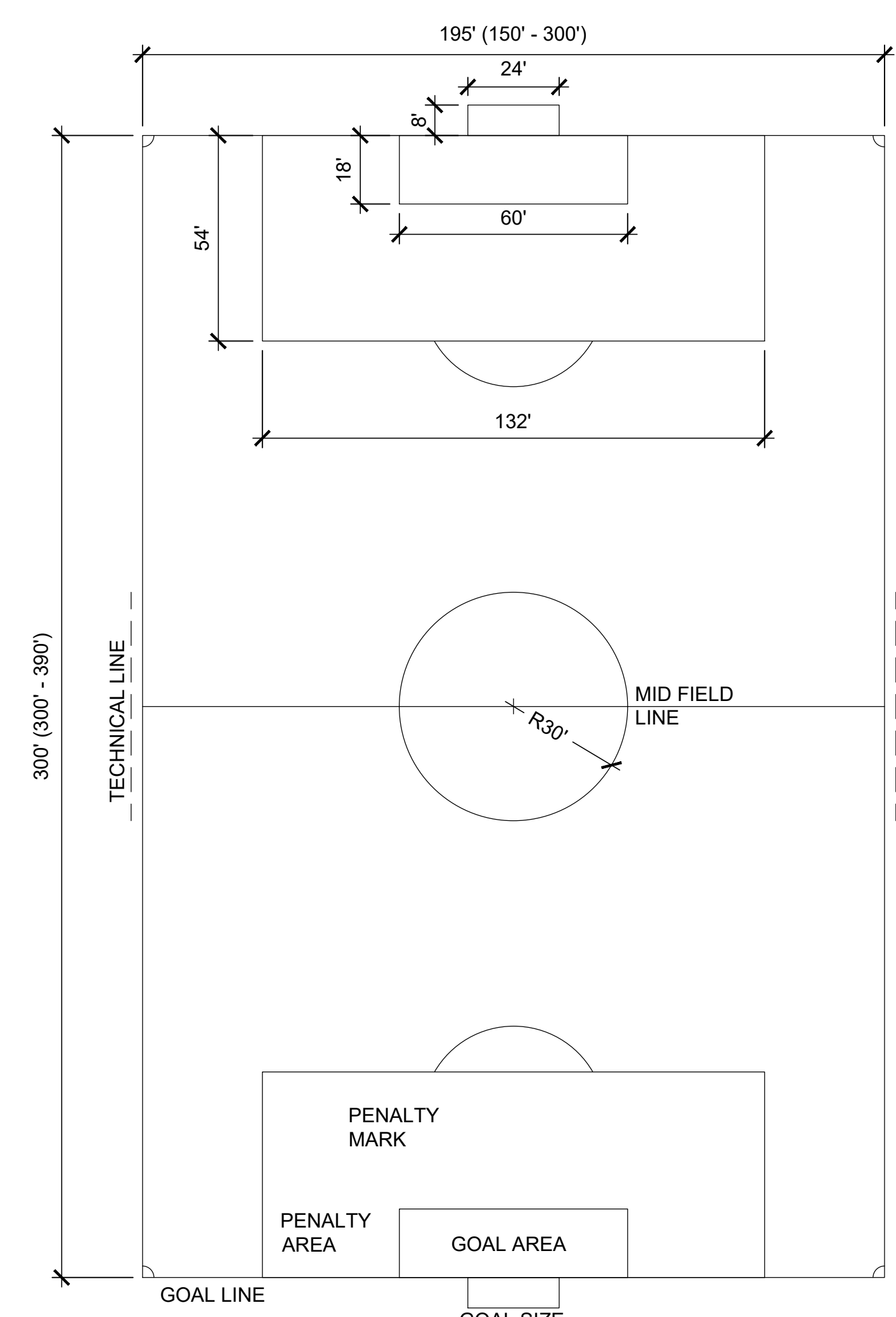
PROGRESS SET

June 14, 2024

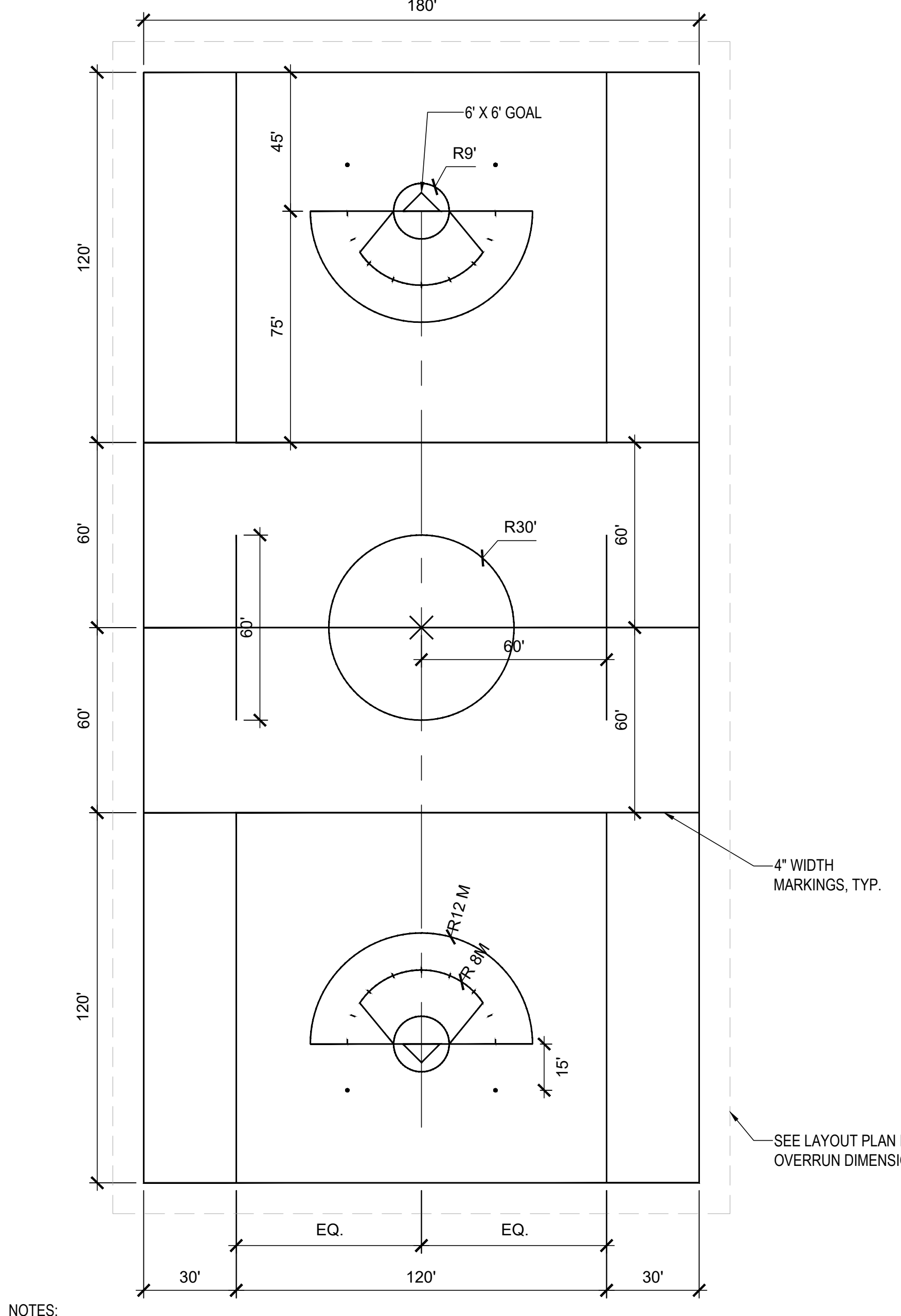


DETAILS

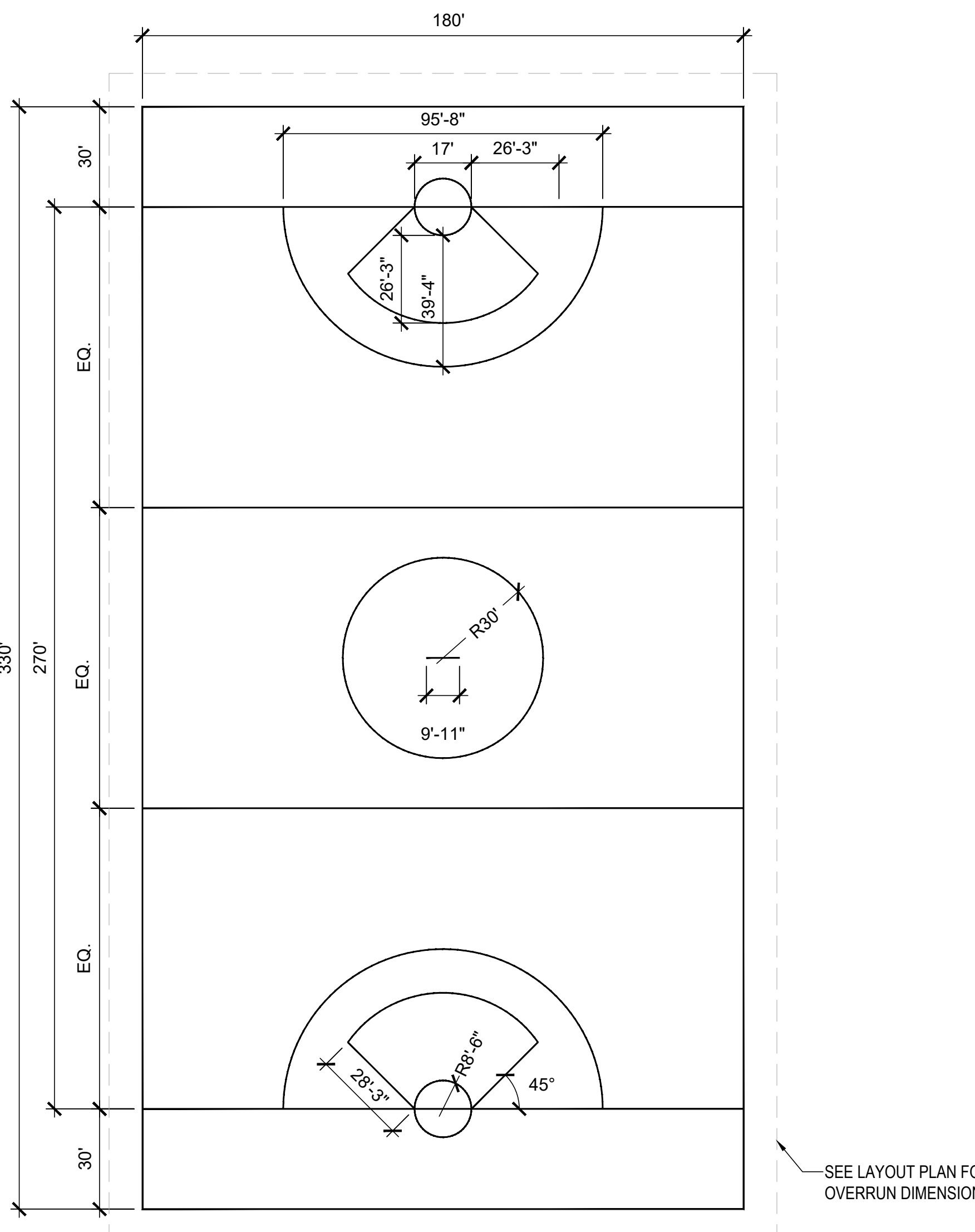
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Project: 22001.00  
Author: WLI  
Date: 4/26/2024  
**L502**



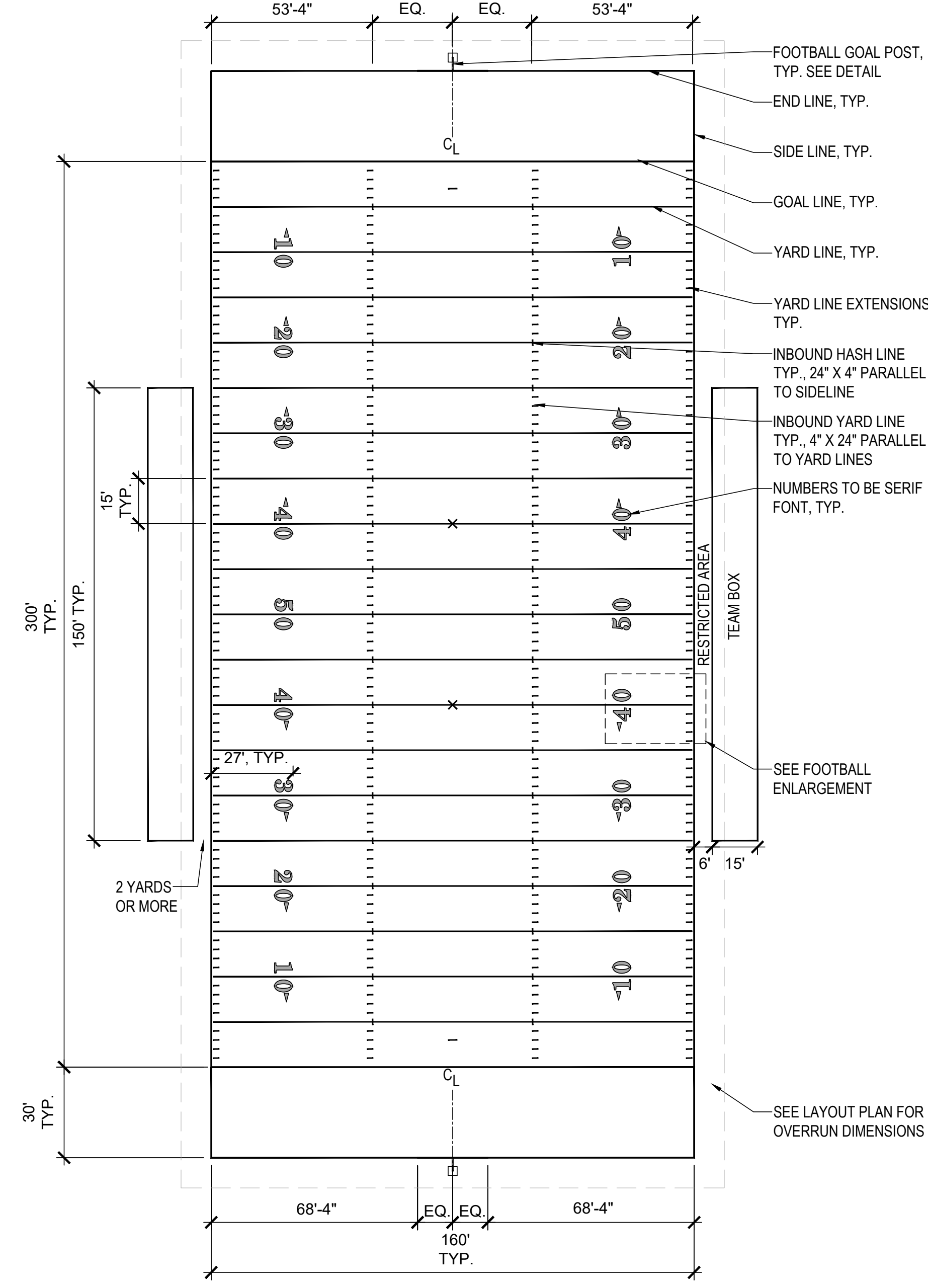
10 SOCCER FIELD LAYOUT  
SCALE: 1/32" = 1'-0"



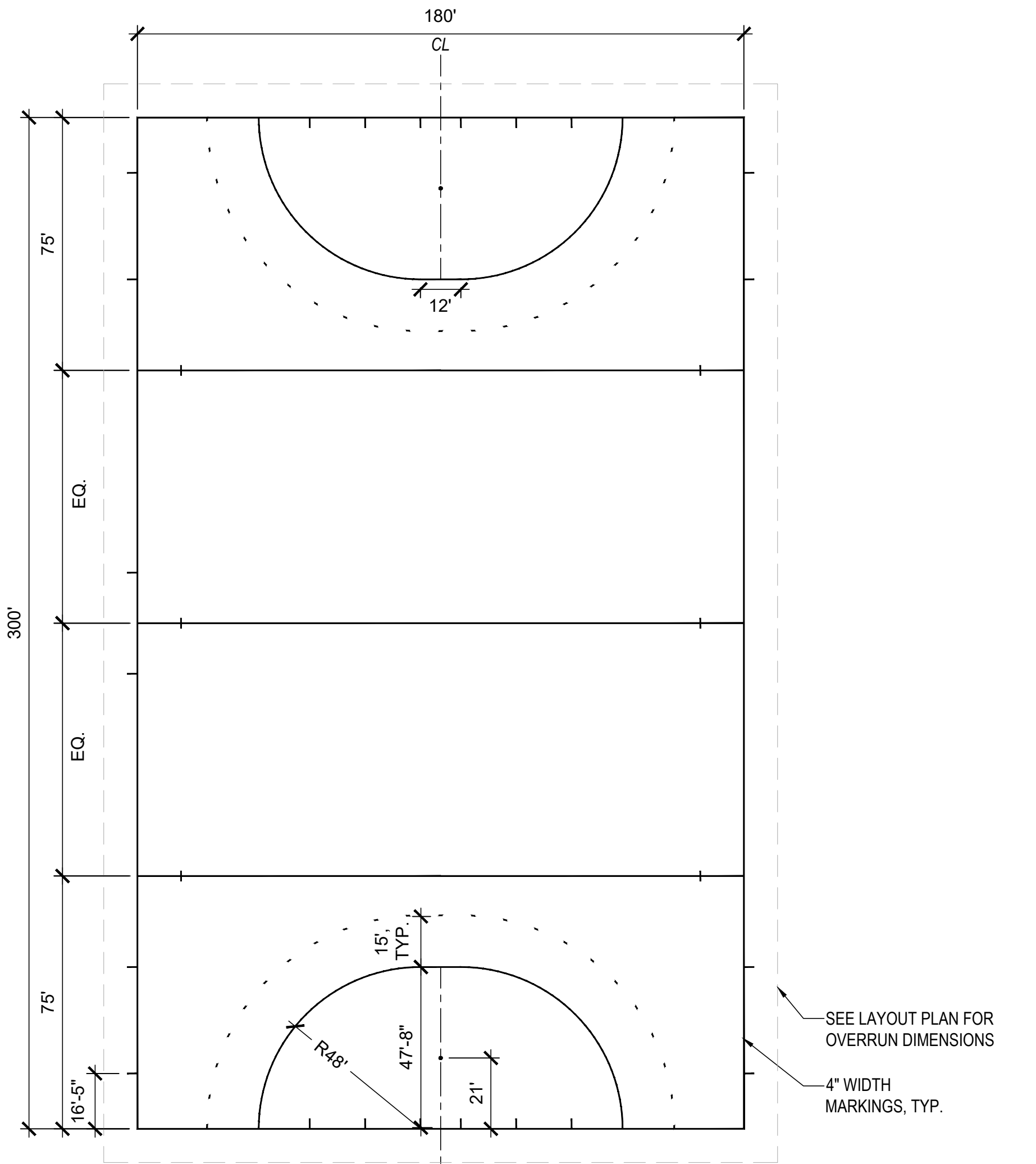
8 BOYS AND GIRLS LACROSSE  
SCALE: 1/32" = 1'-0"



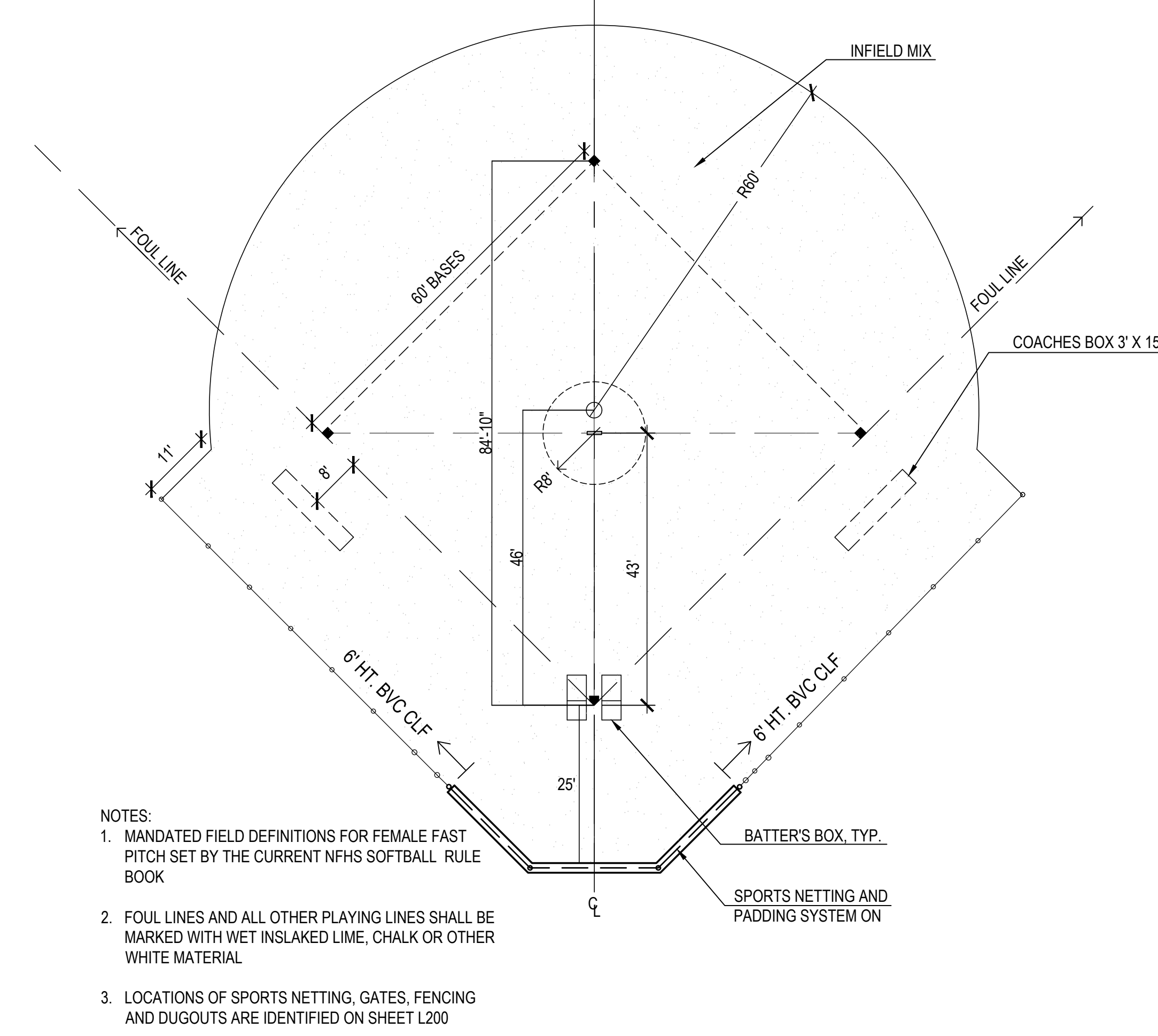
9 GIRLS LACROSSE  
SCALE: 1/32" = 1'-0"



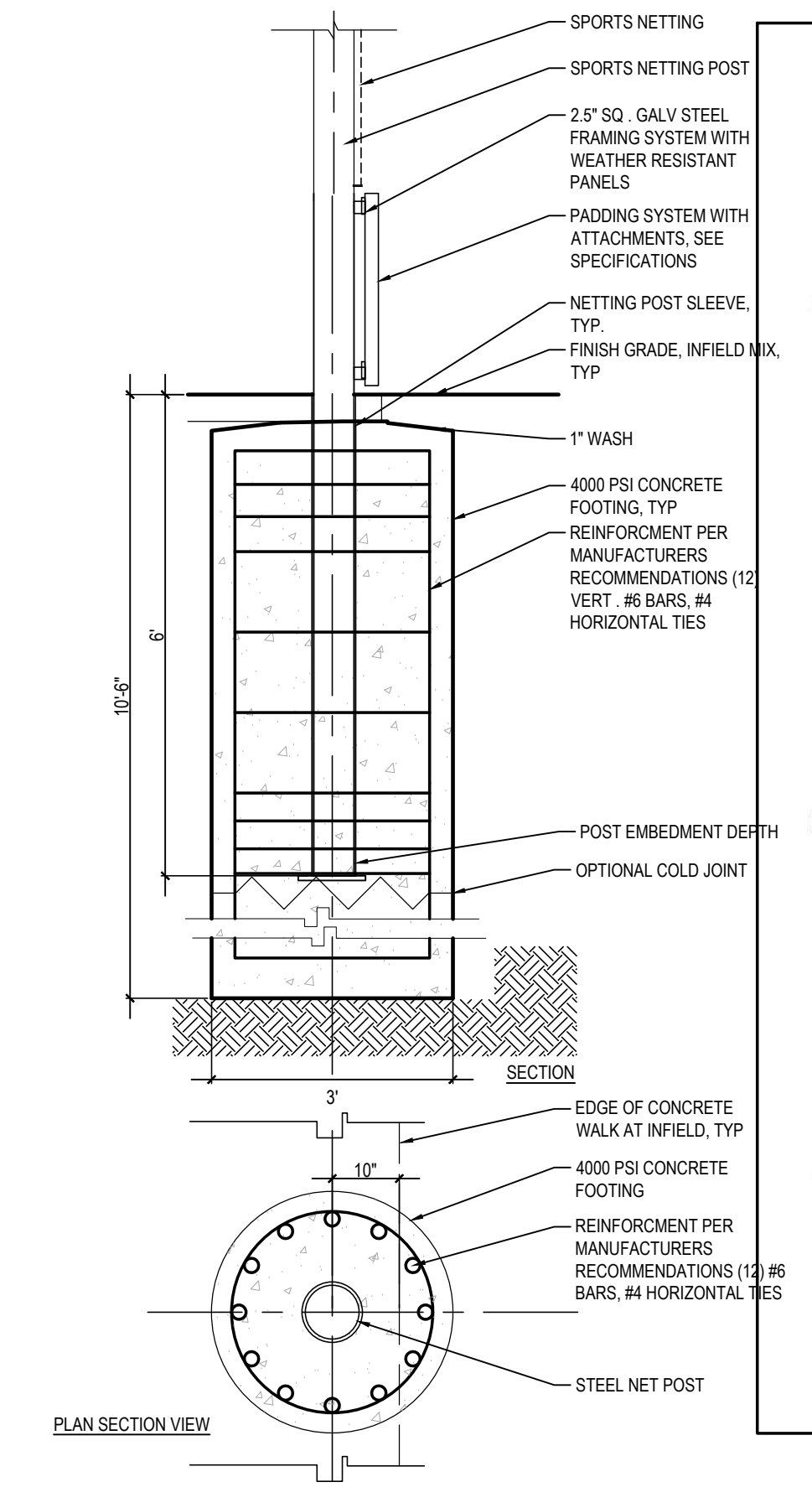
6 FOOTBALL FIELD LAYOUT  
SCALE: 1/32" = 1'-0"



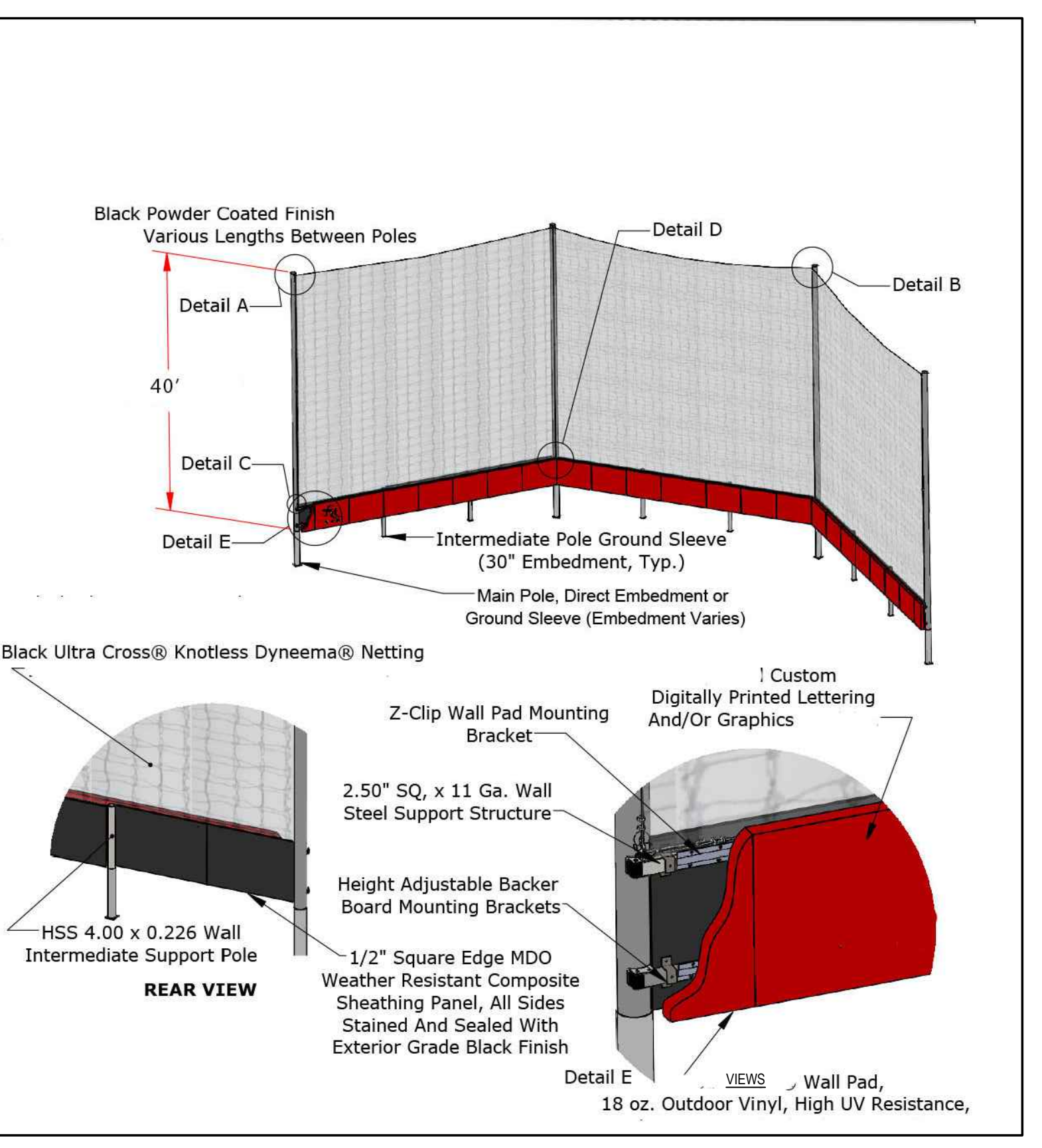
7 FIELD HOCKEY  
SCALE: 1/32" = 1'-0"



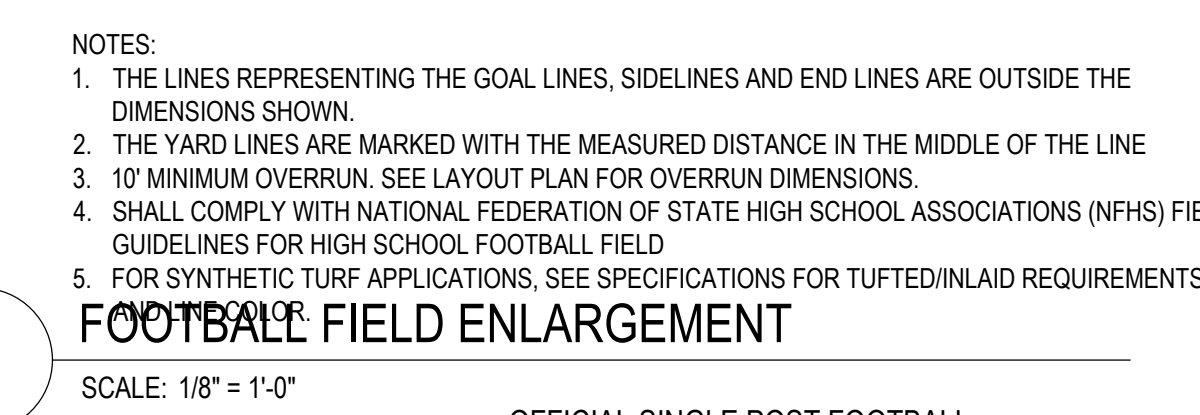
1 SOFTBALL INFIELD  
SCALE: 1/16" = 1'-0"



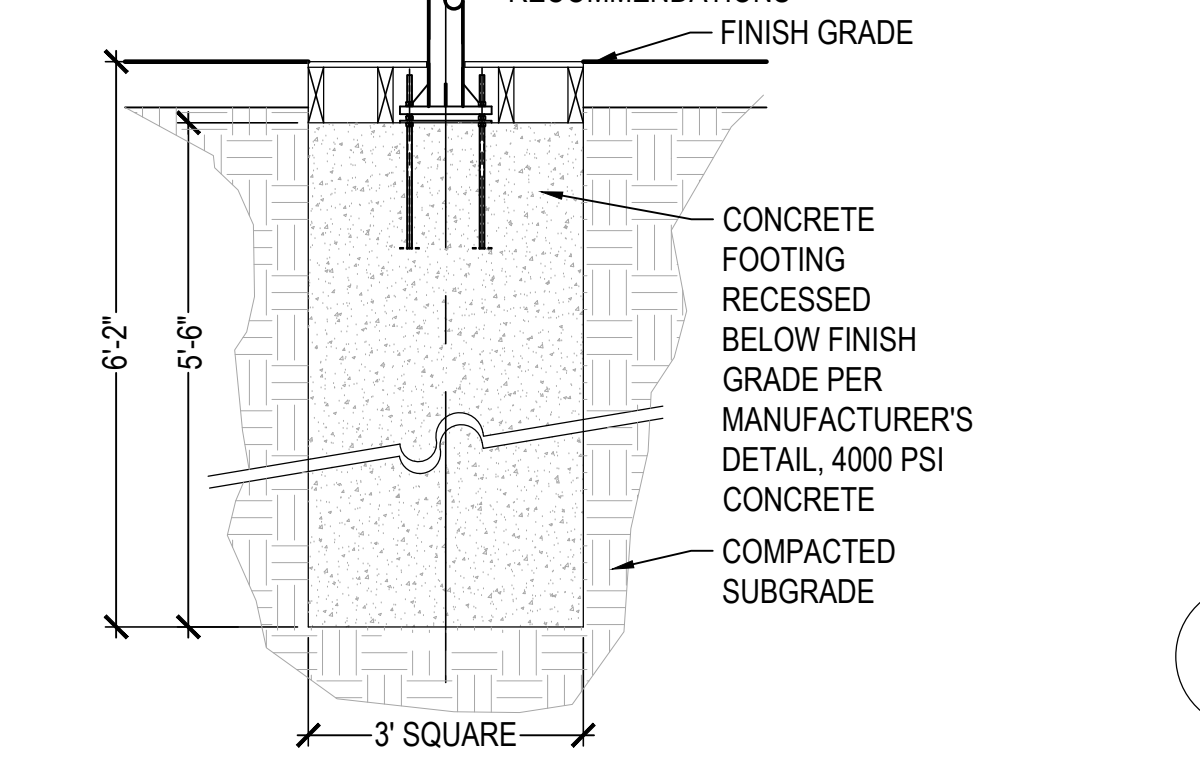
2 SOFTBALL NETTING BACKSTOP ELEVATION  
SCALE: 1/2" = 1'-0"



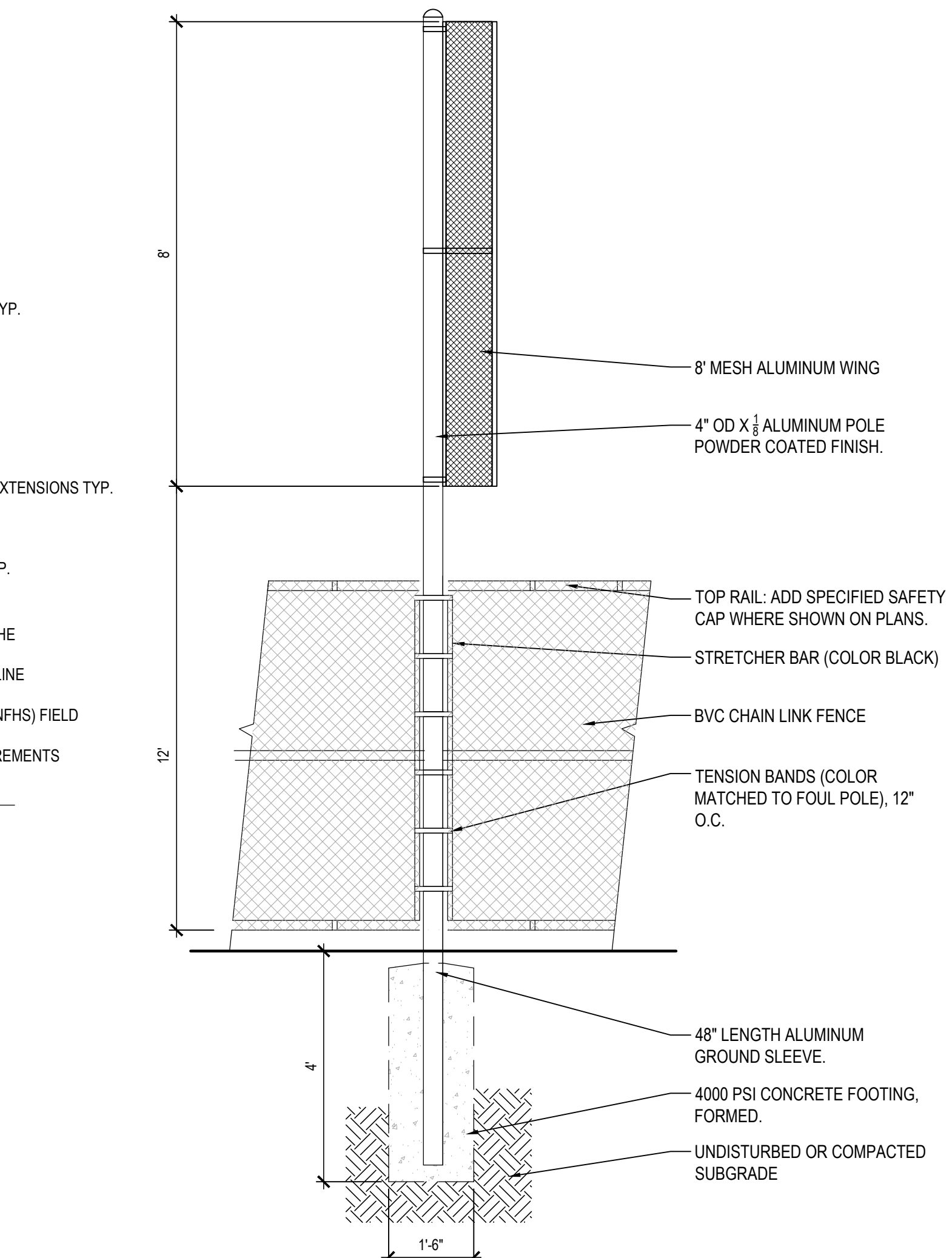
NOTES:  
1. SOFTBALL NETTING CONTAINMENT SYSTEM REQUIRE CONTRACTOR PROVIDED ENGINEER SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE SCALED PLANS, SECTIONS AND CALCULATIONS.  
2. FURNISH AND INSTALL 12" X 12" ALUMINUM CAUTION SIGNS BEHIND BACKSTOP



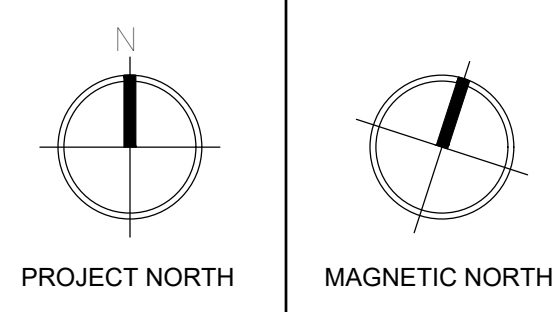
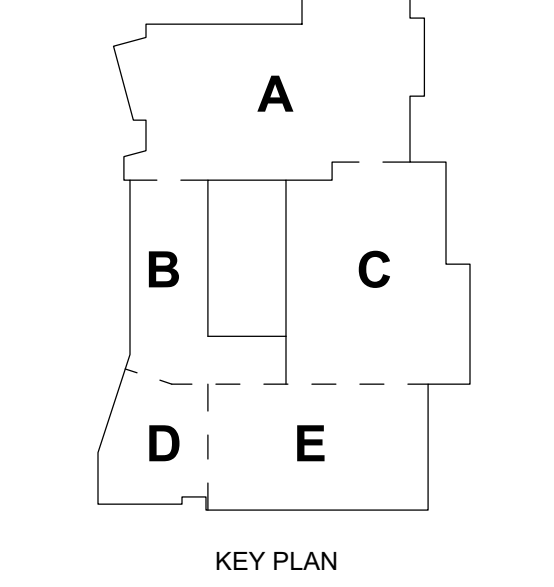
4 FOOTBALL FIELD ENLARGEMENT  
SCALE: 1/8" = 1'-0"

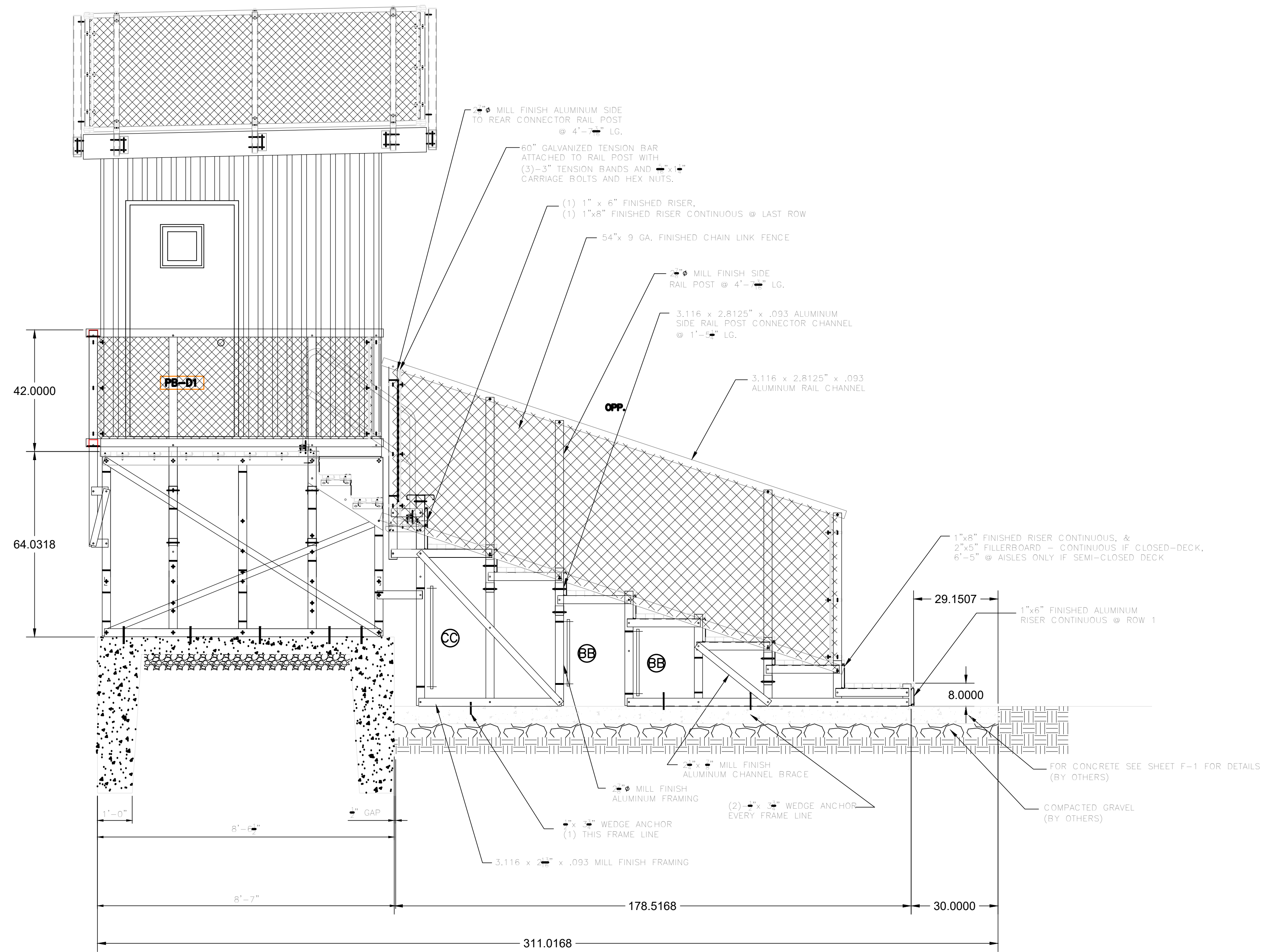


5 FOOTBALL GOAL POST FOOTING  
SCALE: 3/4" = 1'-0"

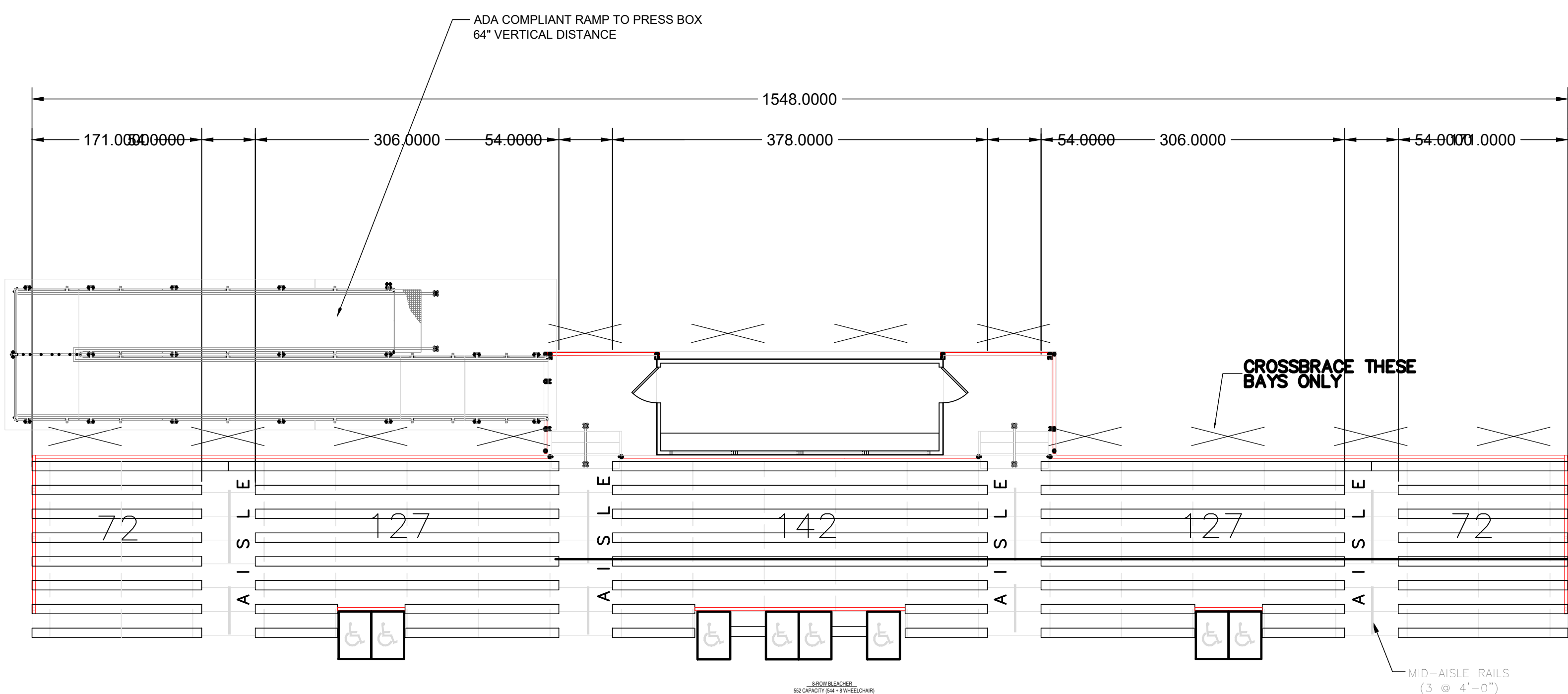


3 FOUL POLE  
SCALE: 1/2" = 1'-0"

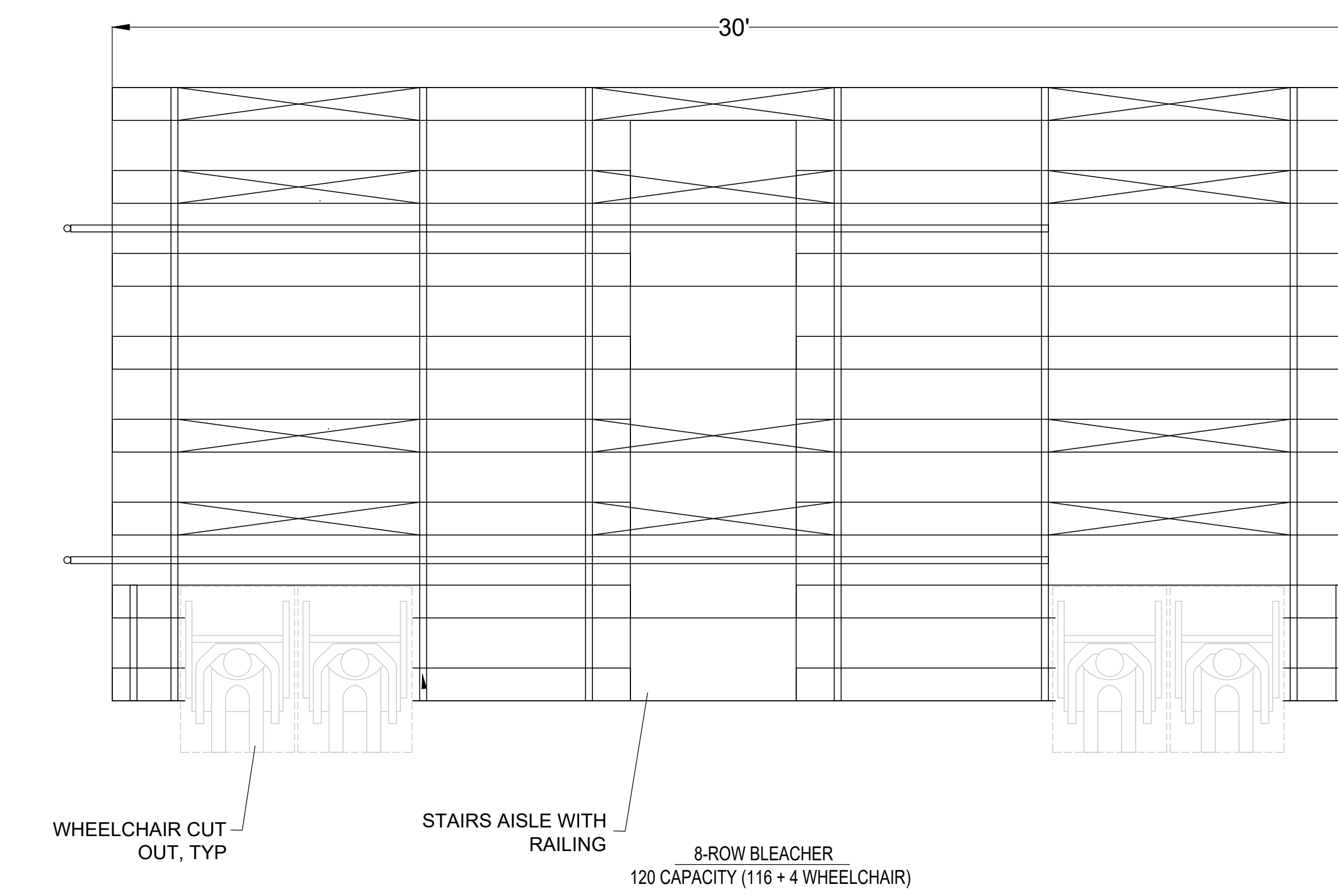
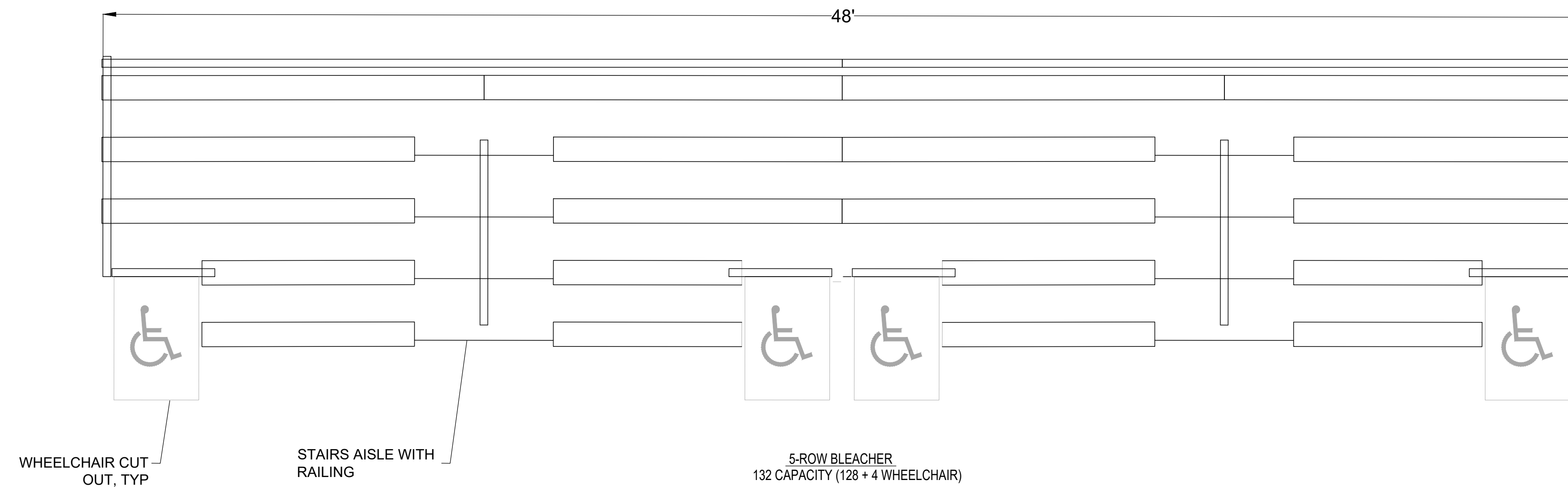
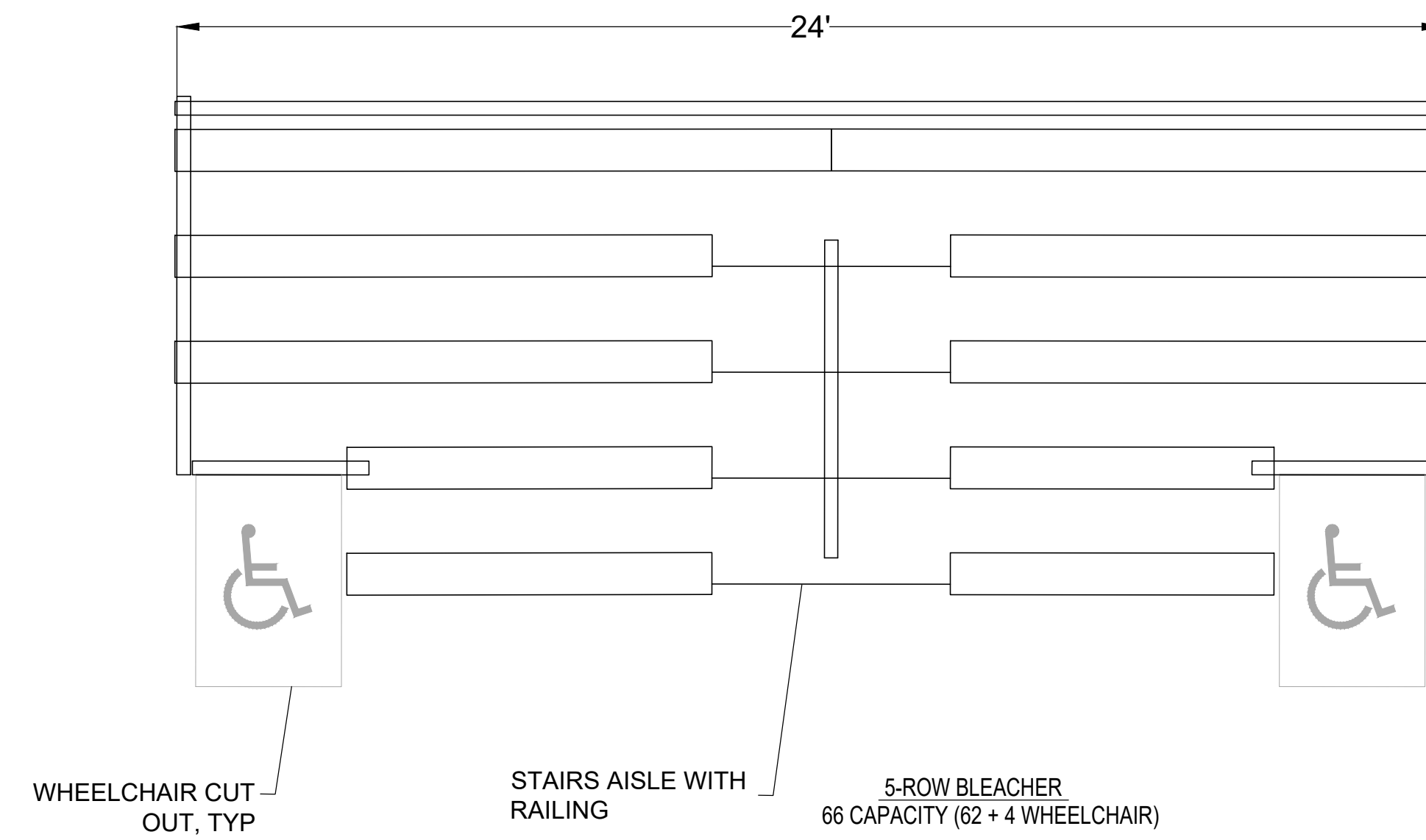




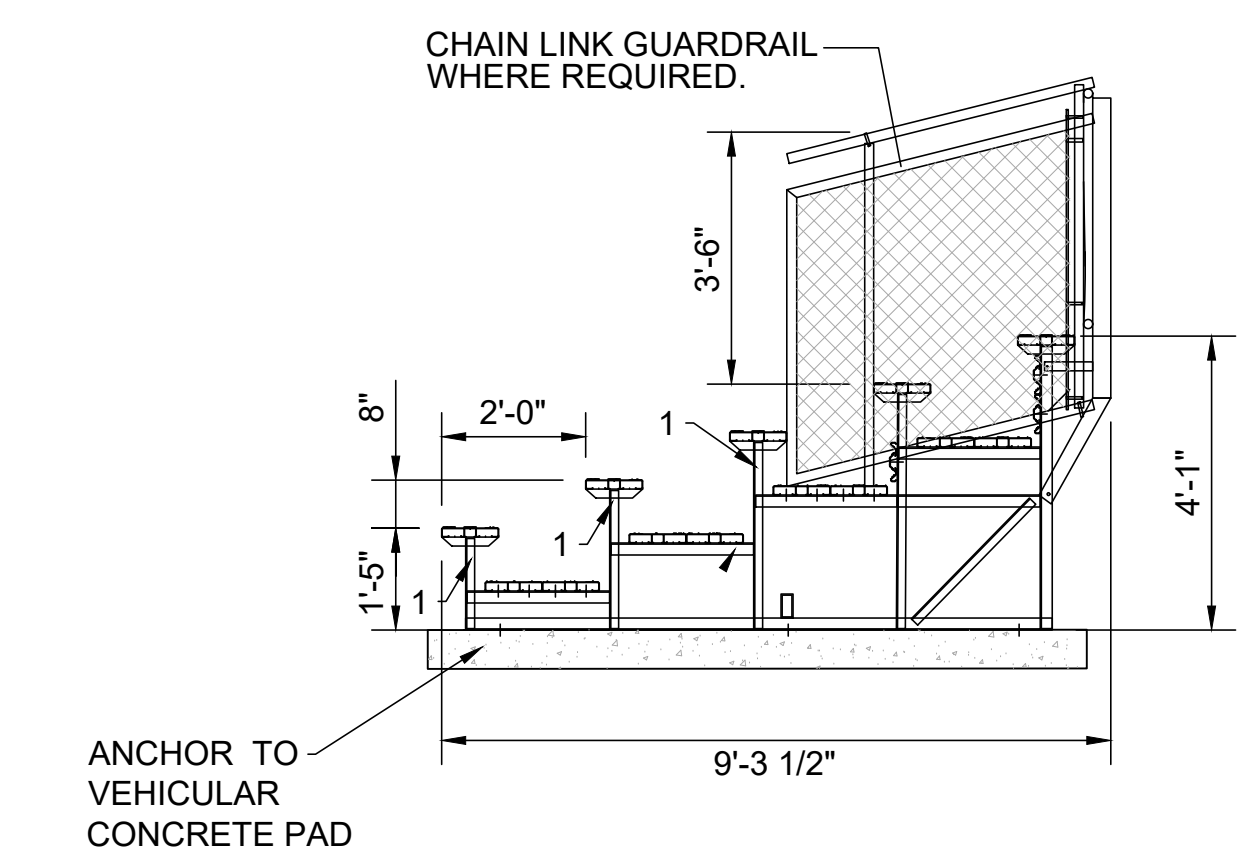
3 BLEACHER ELEVATION WITH PRESSBOX FOR FOOTBALL  
SCALE: 1/2" = 1'-0"



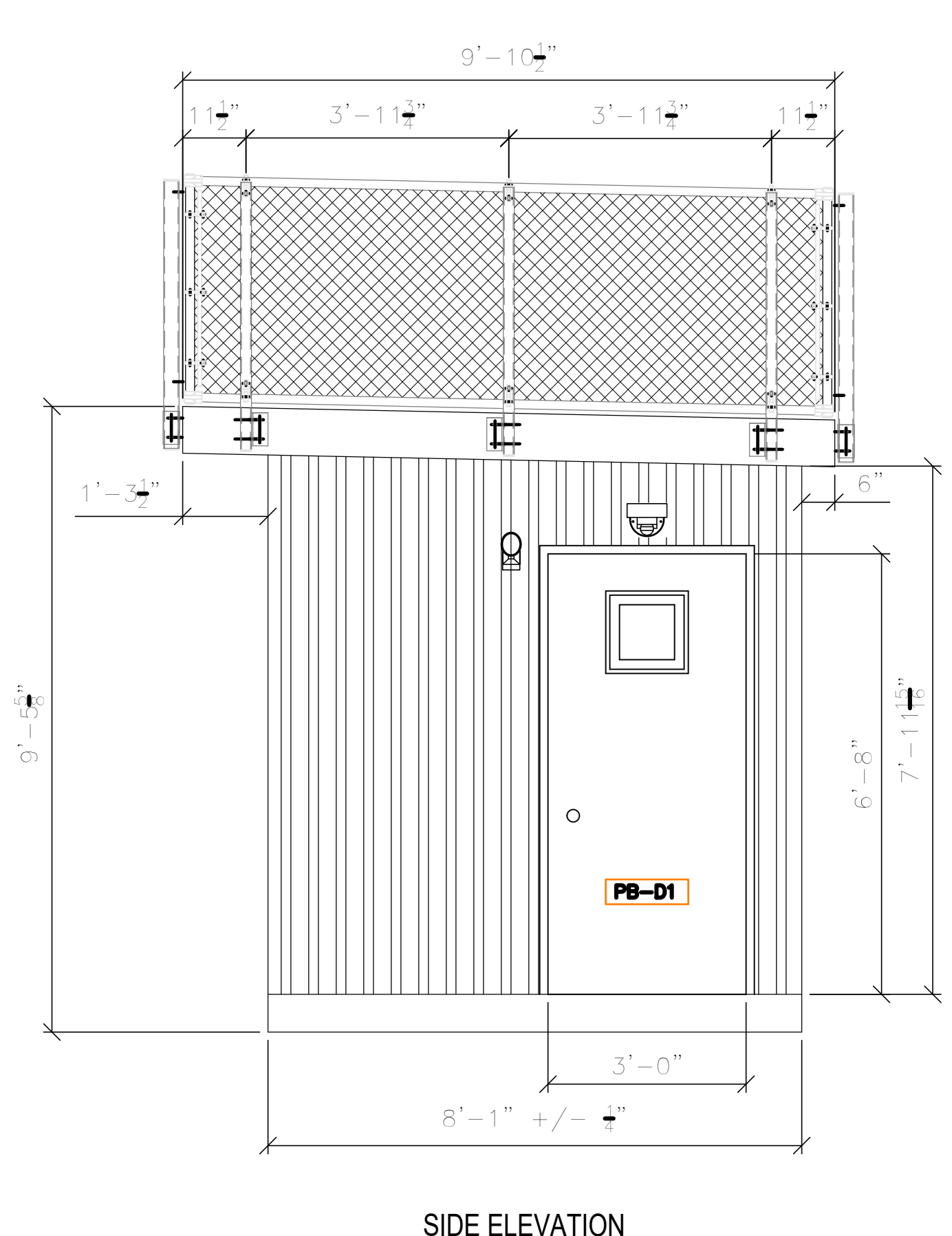
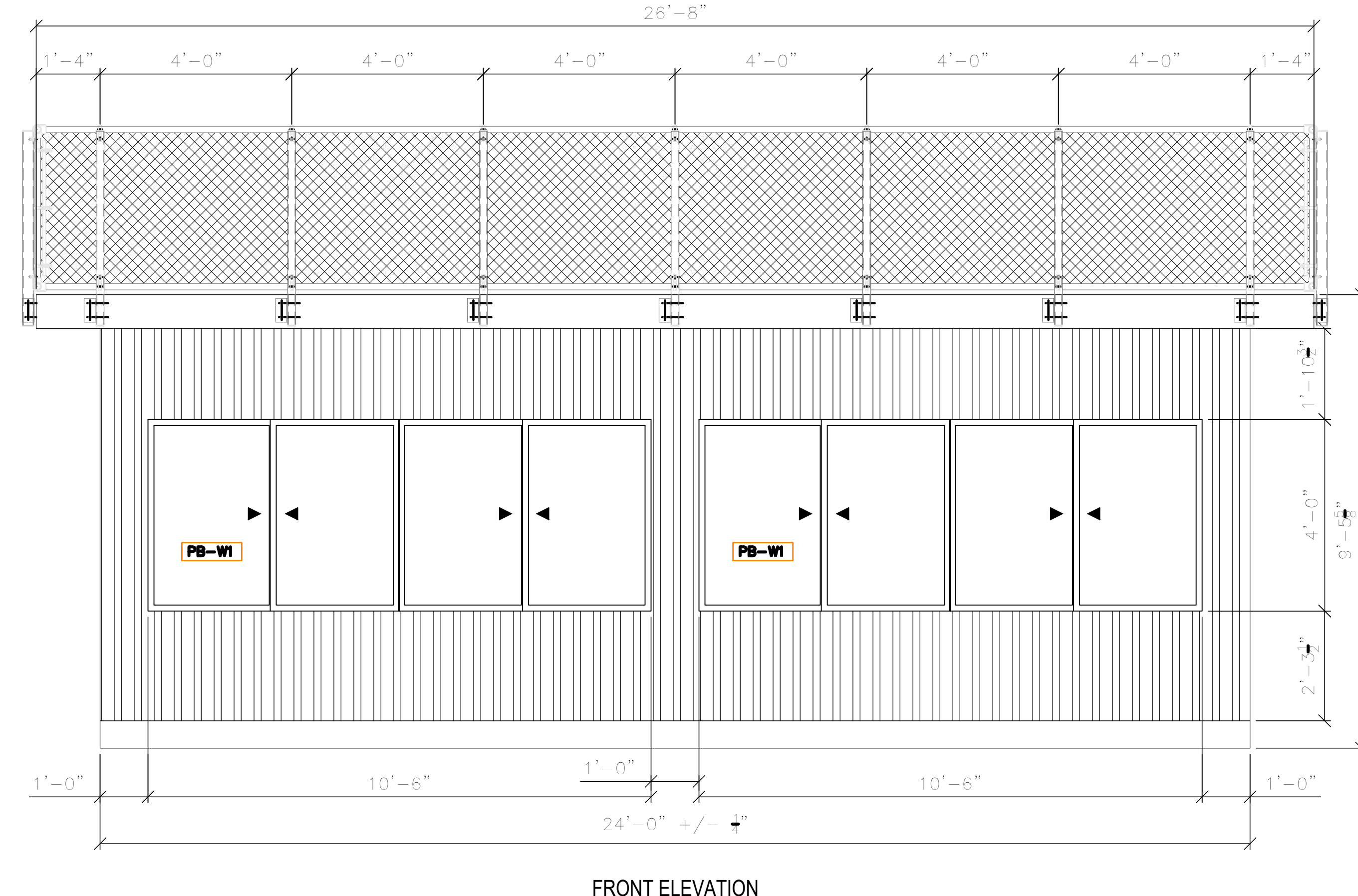
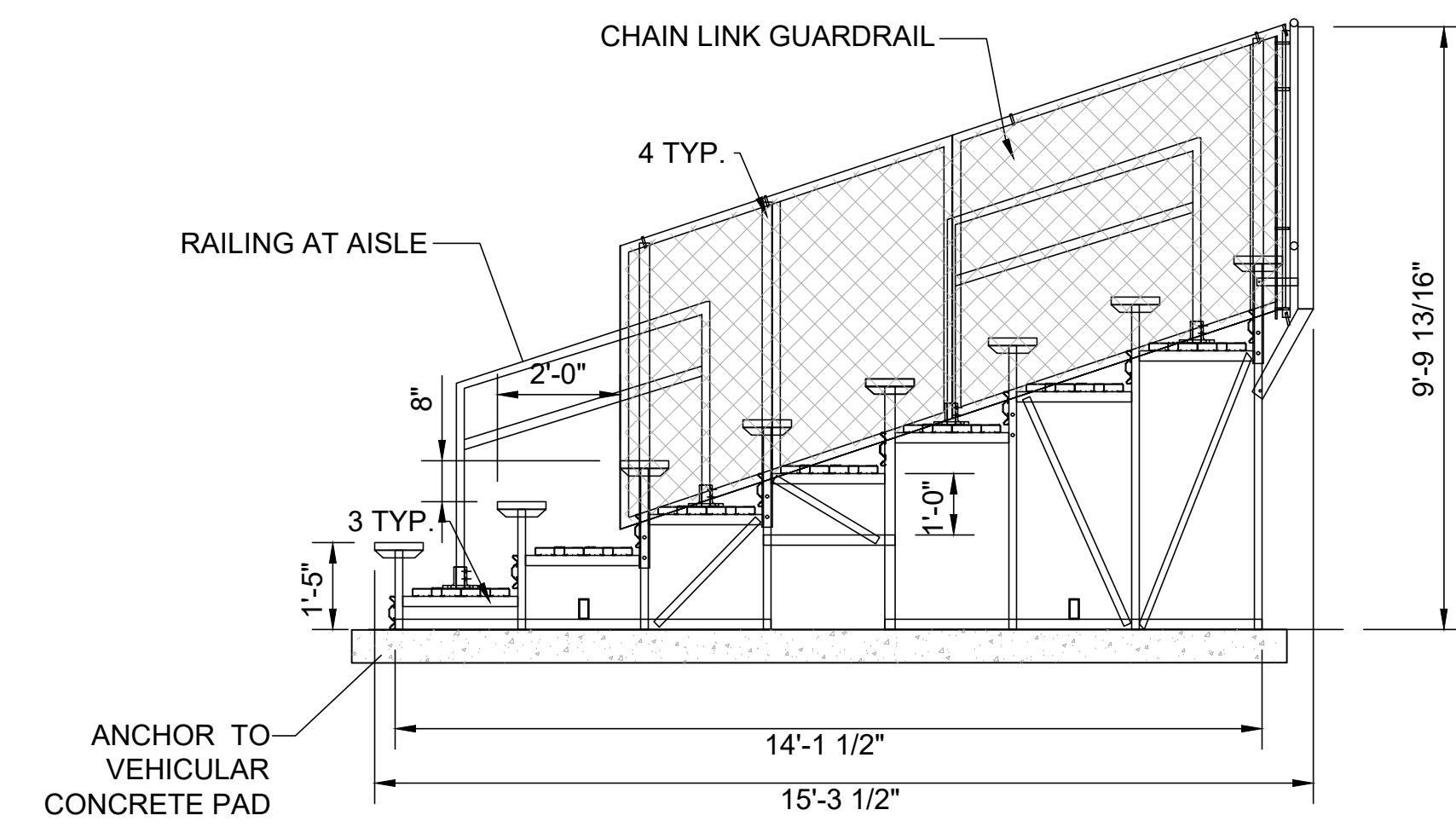
4 BLEACHER PLAN FOR FOOTBALL  
SCALE: 1/8" = 1'-0"



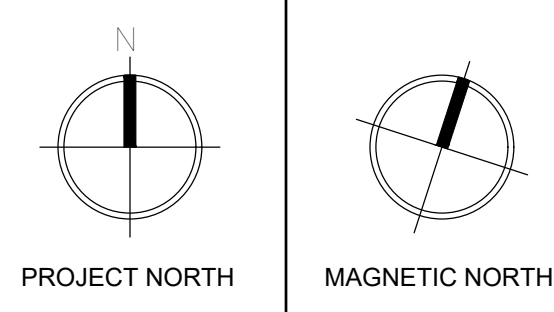
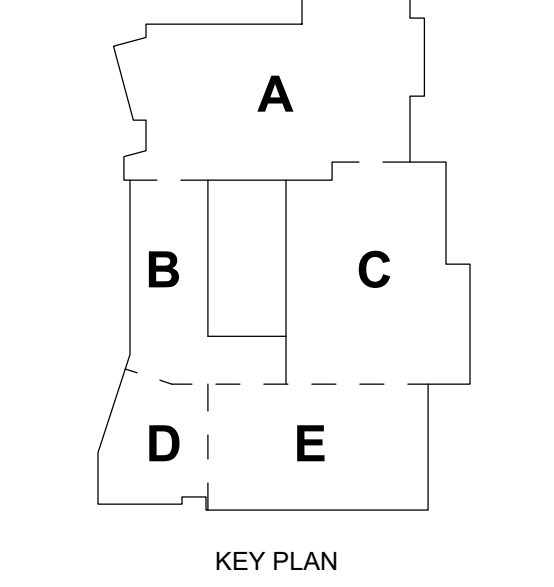
1 BLEACHER FOR BASEBALL SOFTBALL AND TRACK  
SCALE: 3/8" = 1'-0"

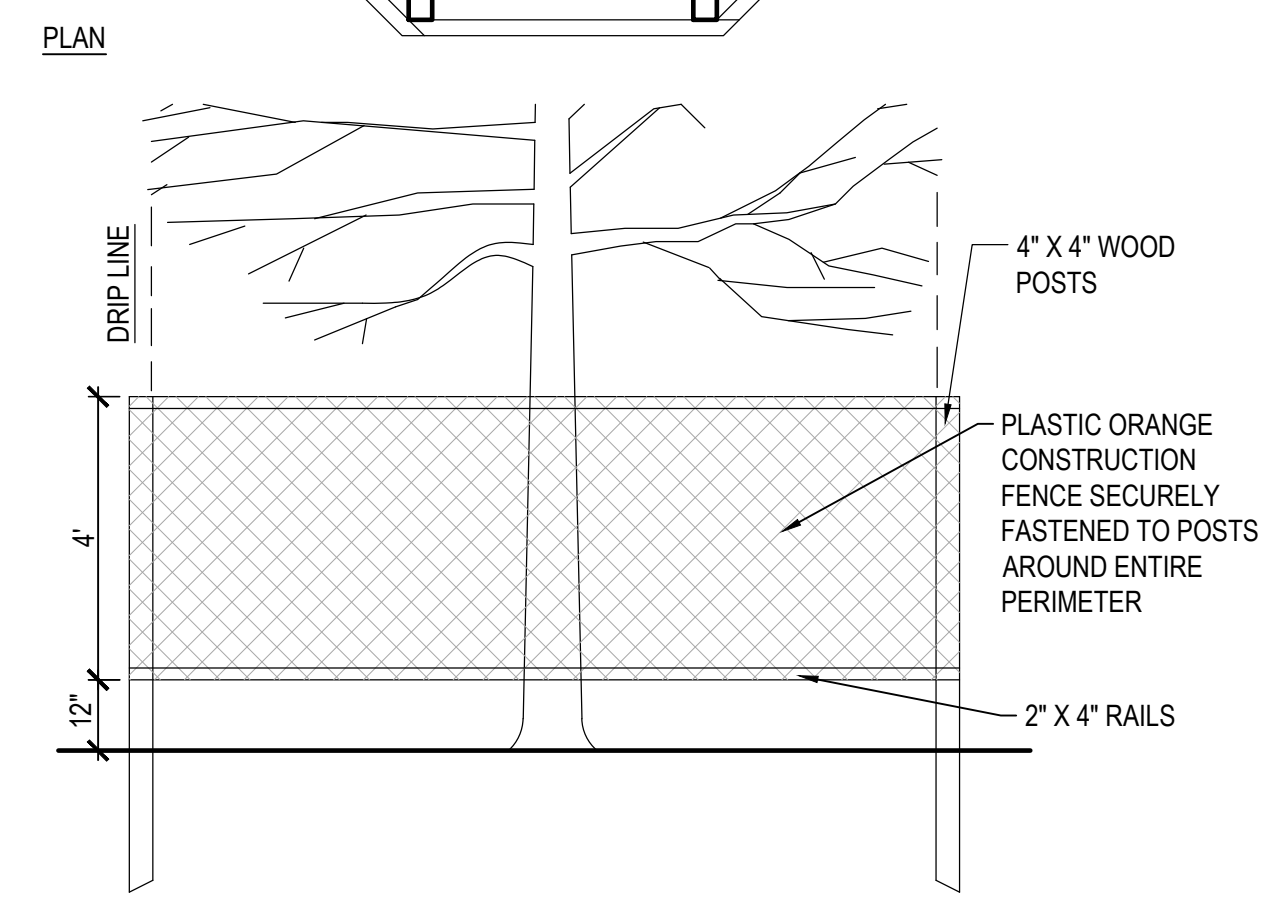
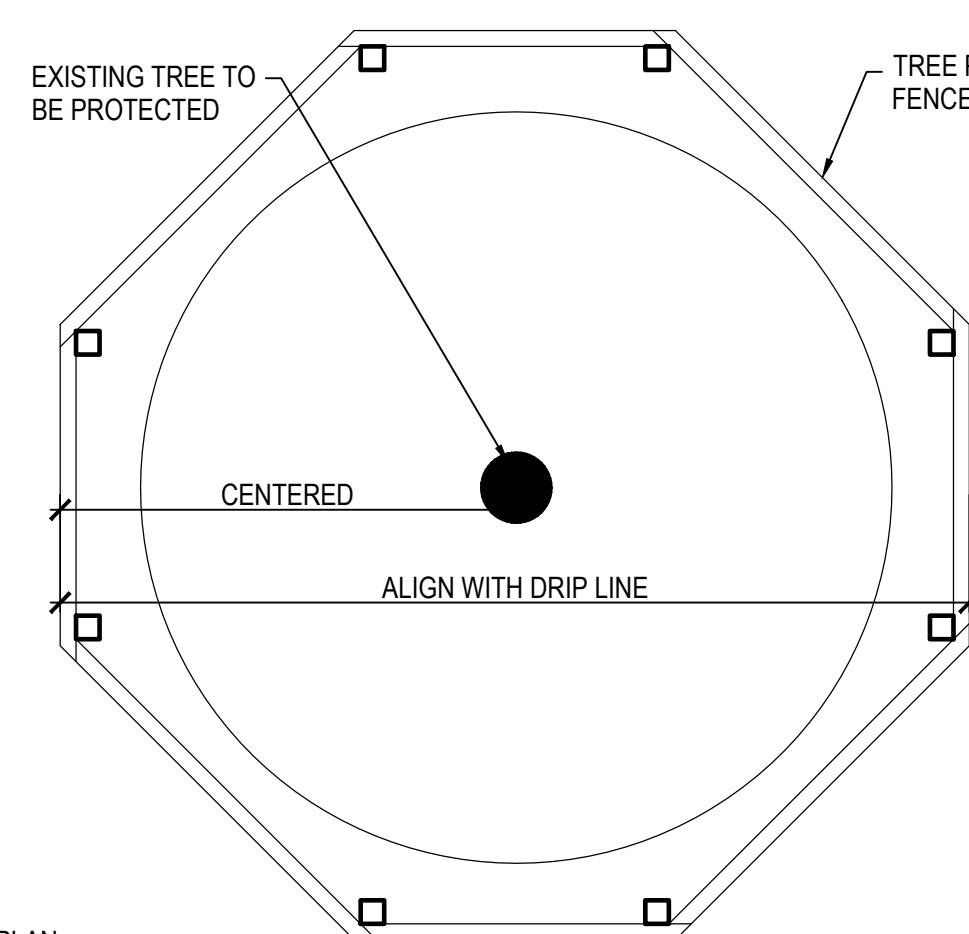


NOTE:  
1. INSTALLER TO PROVIDE DETAILED SHOP DRAWINGS BASED ON MANUFACTURERS RECOMMENDATIONS.



2 PRESSBOX  
SCALE: 1/2" = 1'-0"

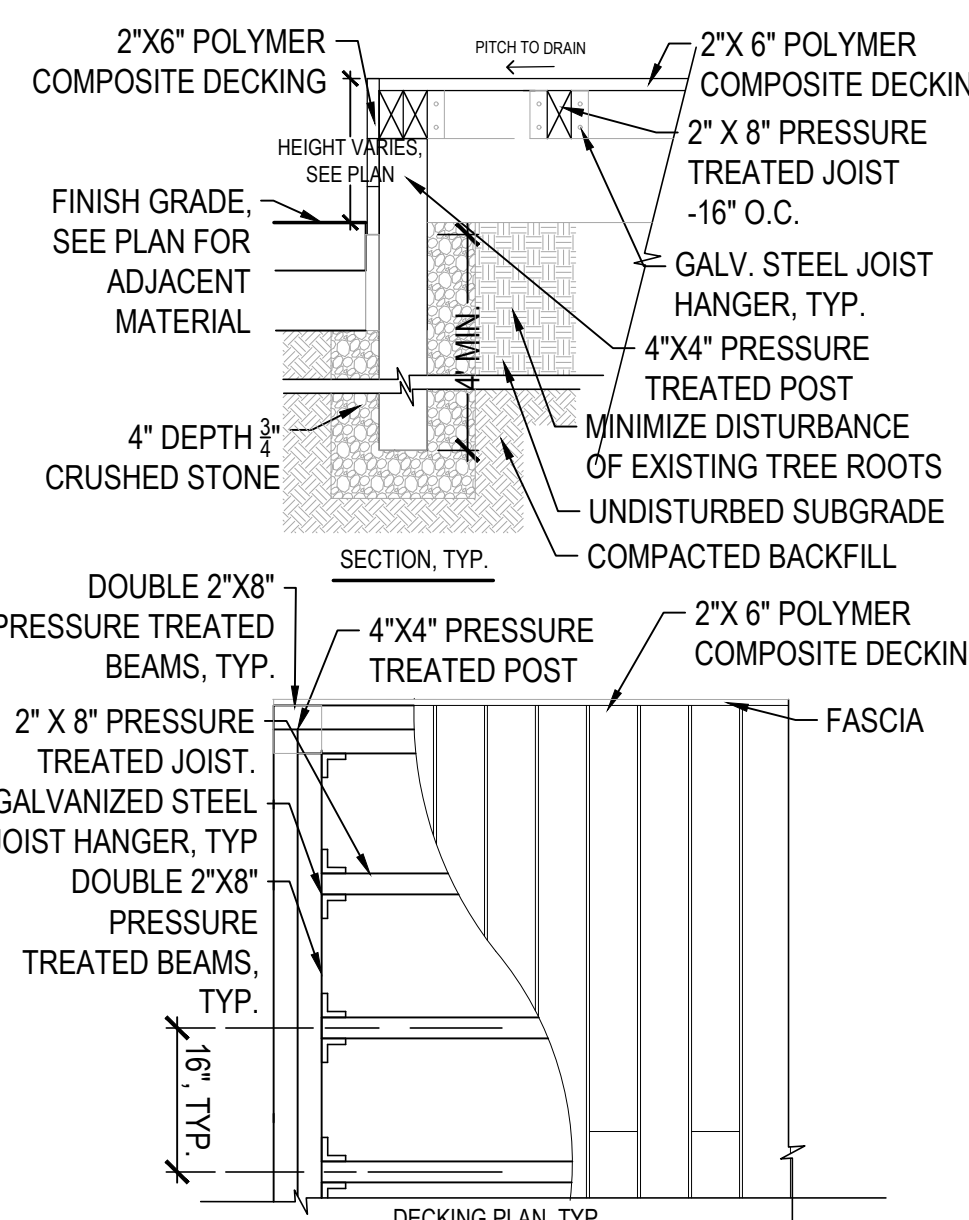




- NOTES**
- TREE PROTECTION TO REMAIN IN PLACE THROUGHOUT CONSTRUCTION. REMOVE FOR FINAL LANDSCAPE TREATMENT.
  - ADJUST LOCATION OF TREE PROTECTION WITHIN TREE DRIFLINE ONLY WHEN NECESSARY TO PERFORM WORK SHOWN ON DRAWINGS.
  - STOCKPILING OF SOILS, STOKING OF MATERIALS, PARKING OF VEHICLES OR LOCATION OF TEMPORARY STRUCTURES SHALL NOT OCCUR AT ANY TIME WITHIN THE DRIFLINE OF TREES TO REMAIN.
  - ADJUST LOCATION AND DEPTH OF POSTS TO AVOID TREE ROOTS.
  - ANY POST ADJUSTMENTS SHALL NOT COMPROMISE STABILITY OF FENCE. ADD ADDITIONAL POSTS AS NECESSARY TO MAINTAIN RIGIDITY OF FENCE.

**10 TREE PROTECTION**

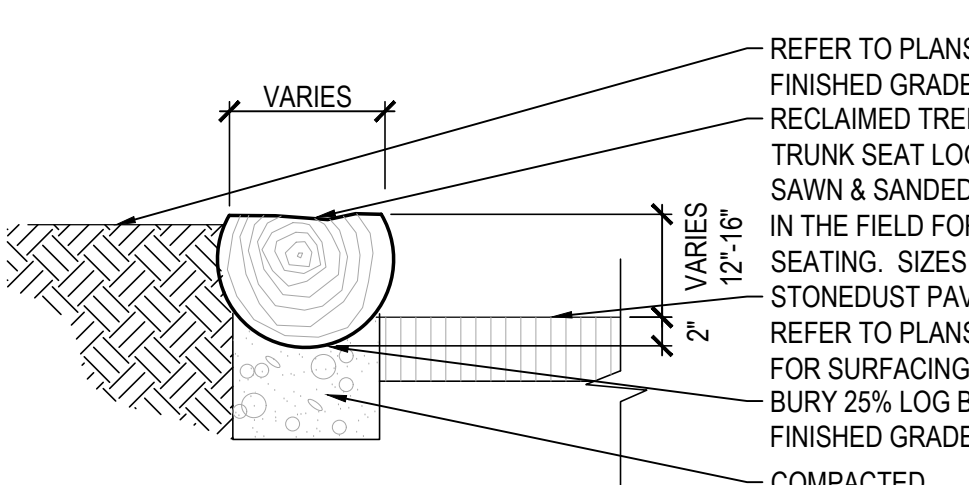
SCALE: 1" = 1'-0"



- NOTES**
- ALL HARDWARE INCLUDING SCREWS TO BE GALVANIZED STEEL.
  - FIT BEAMS TOGETHER WITH HALF LAP JOINTS.
  - CONTRACTOR TO PROVIDE STAMPED SHOP DRAWINGS.

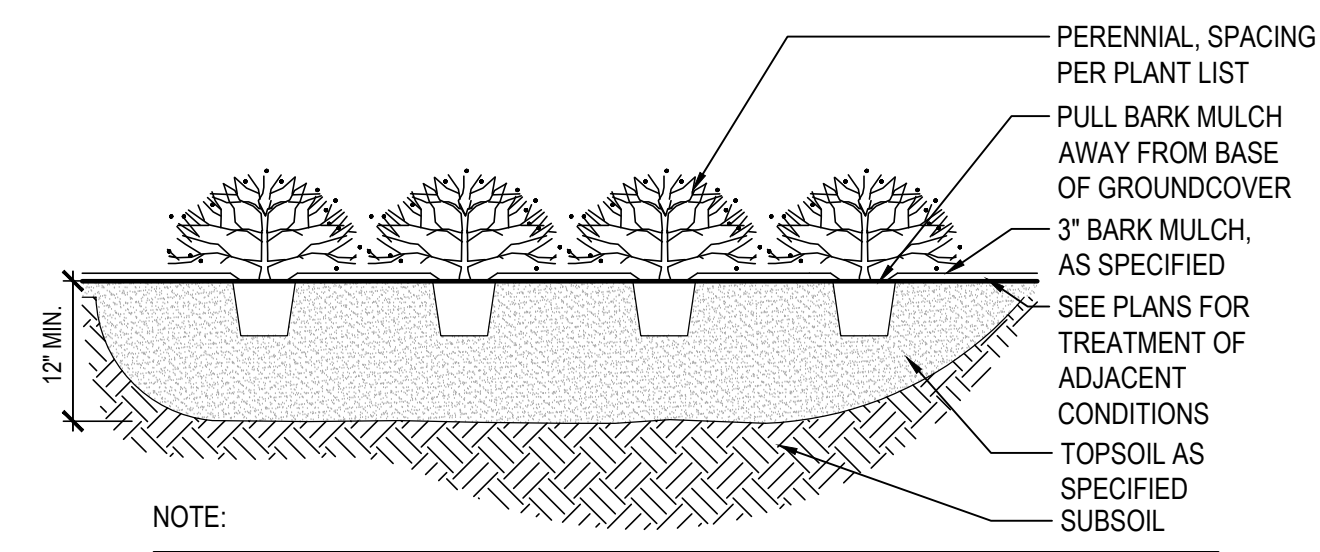
**11 COMPOSITE DECKING**

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



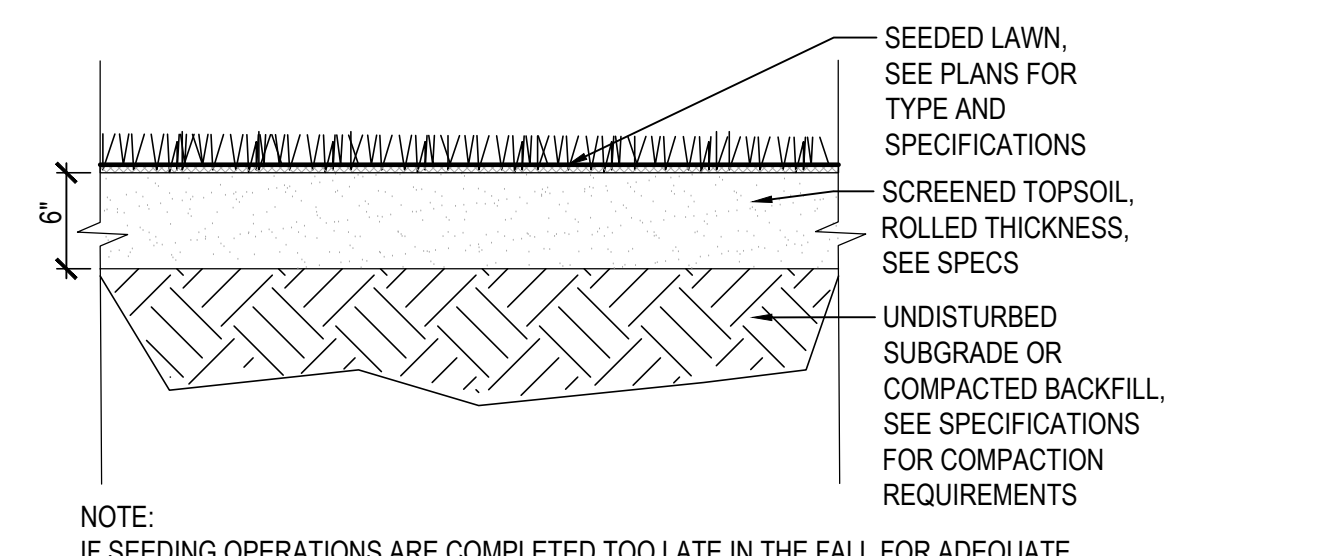
**12 PLAY AREA LOG SEATING**

SCALE: 1" = 1'-0"



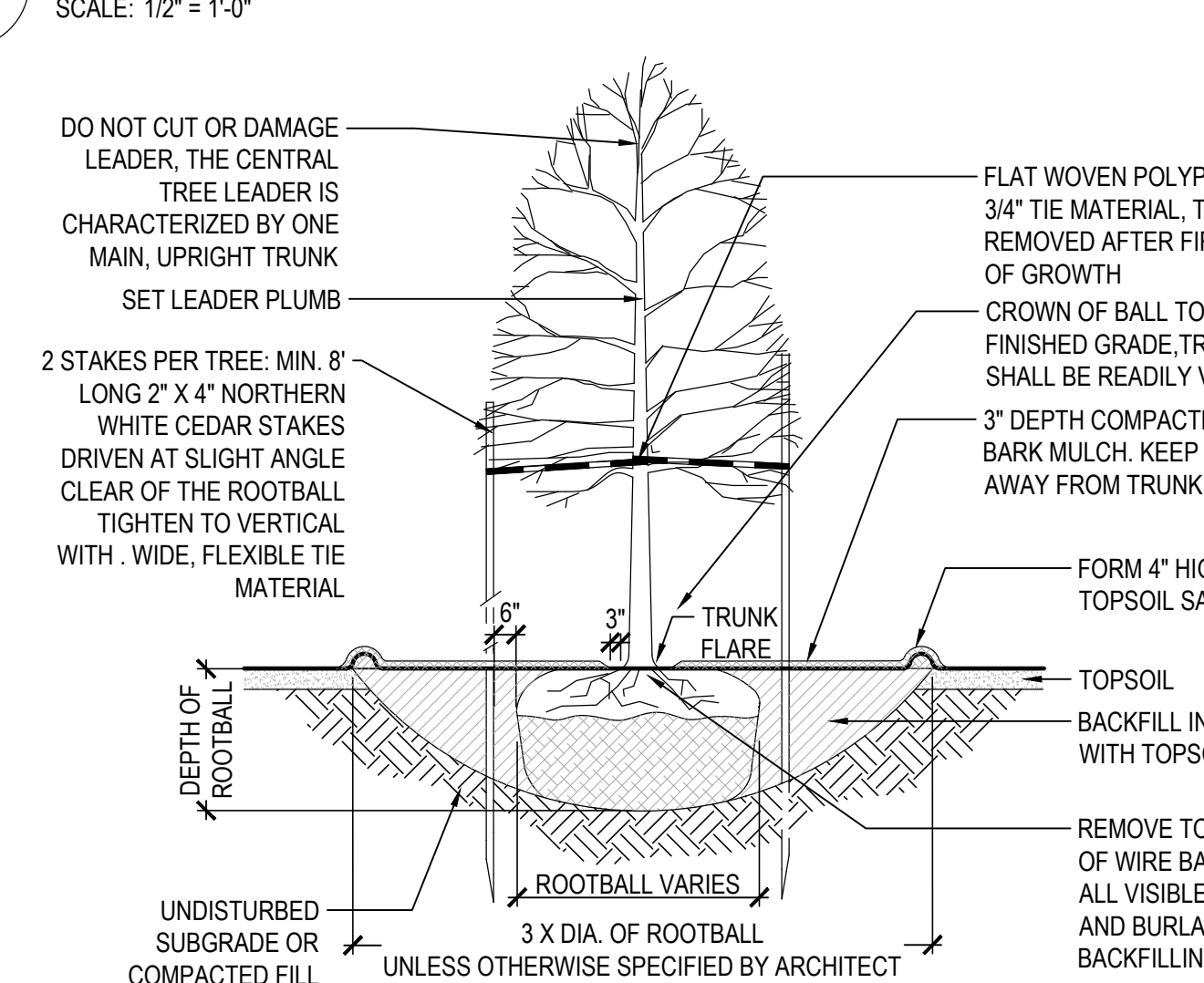
**10 PERENNIALS AND GRASSES AND GROUND COVER PLANTING**

SCALE: 1/2" = 1'-0"



**11 SEEDED LAWN**

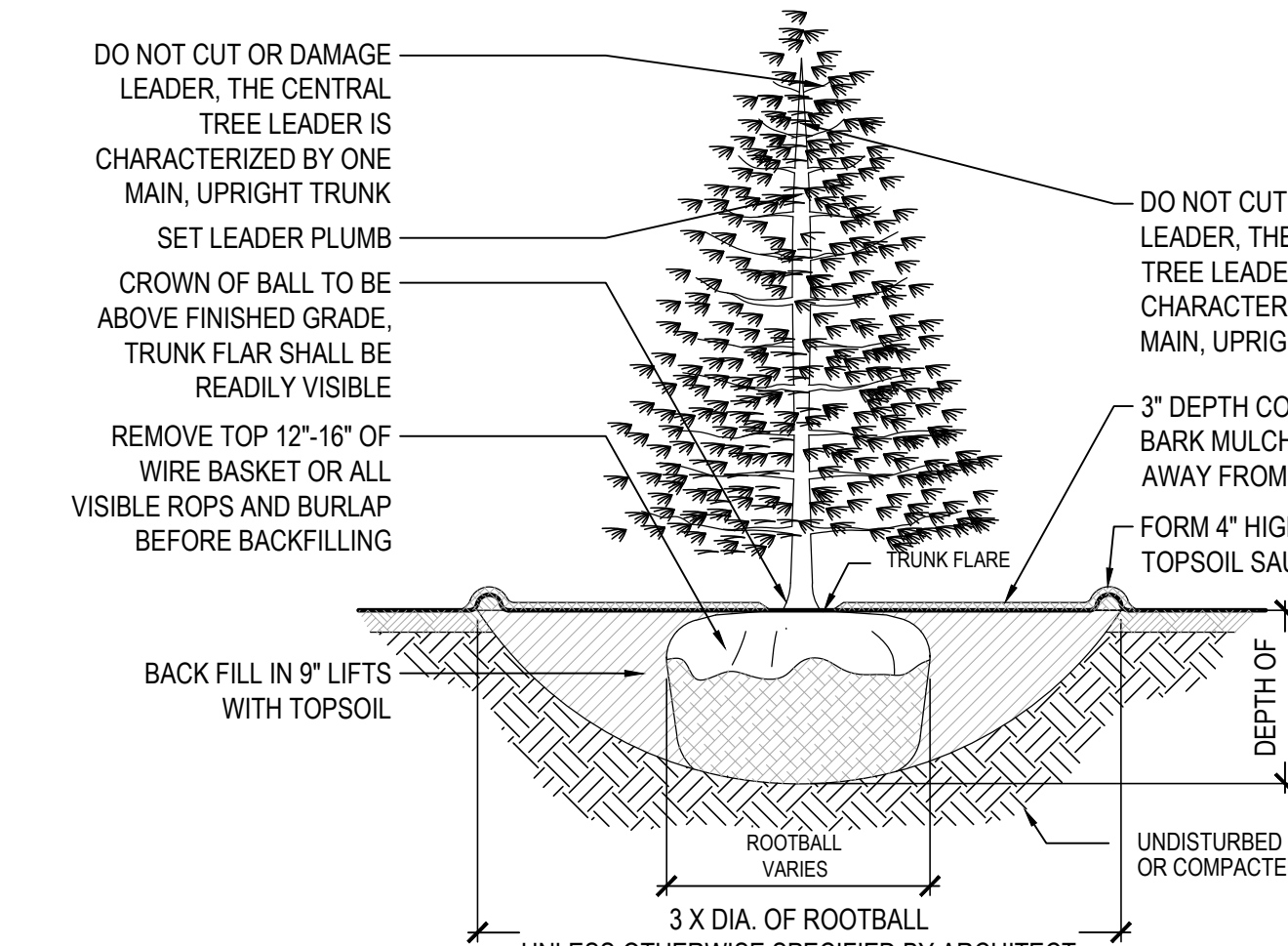
SCALE: 1/2" = 1'-0"



- NOTES**
- TREE SHALL BE MARKED ON ITS NORTH FACING SIDE AT NURSERY. TREE SHALL BE PLANTED WITH ORIGINAL NORTH FACING SIDE FACING NORTH ON SITE.
  - IF ROOTBALL IS PACKAGED IN "PLASTIC BURLAP" OR TREATED BURLAP. REMOVE BURLAP COMPLETELY. DO NOT DAMAGE MAIN ROOTS OR ROOT BALL WHEN INSTALLING TREE STAKE.
  - ALL STAKES, GUYWIRES, AND TIES TO BE REMOVED AFTER THE FIRST YEAR OF GROWTH, UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT.
  - WATER THOROUGHLY AFTER INSTALLATION AT RATE OF 3-5 GALLONS/INCH CALIPER.
  - PROVIDE SLOW RELEASE WATERING BAG AS PER SPECIFICATIONS.
  - PROVIDE A MINIMUM OF 2 STAKES PER TREE.

**7 DECIDUOUS TREE PLANTING**

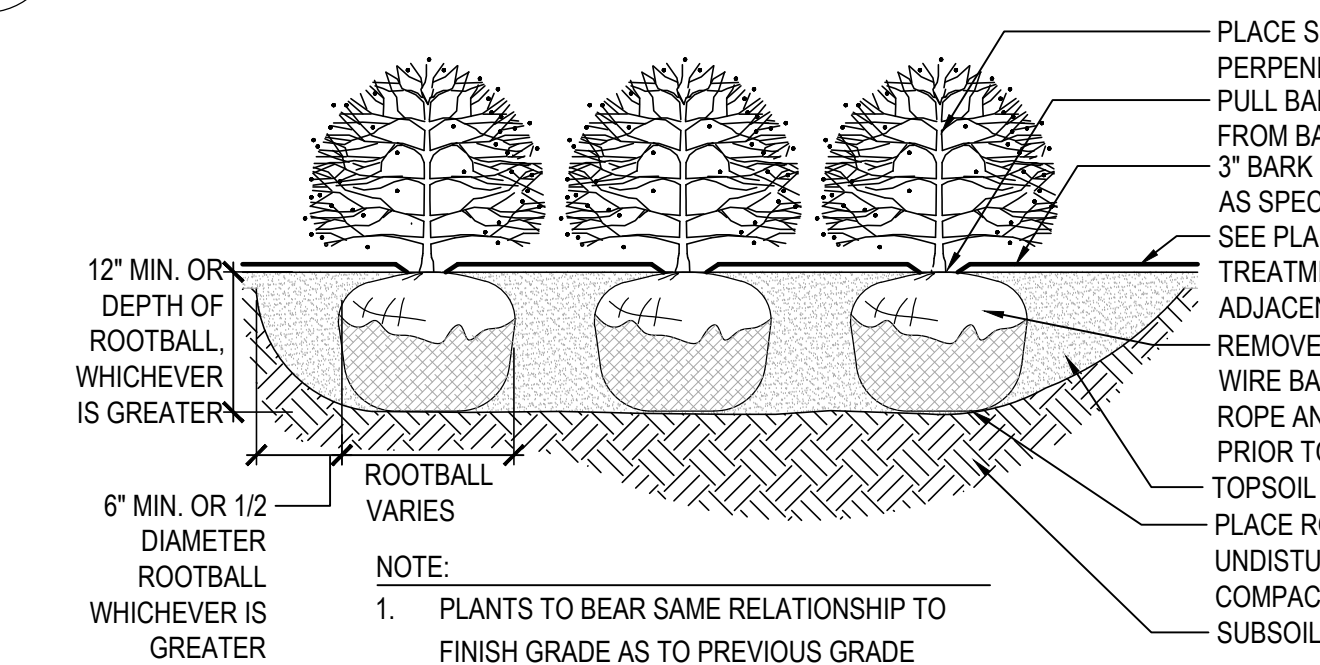
SCALE: 1/2" = 1'-0"



- NOTES**
- REMOVE AND SEPARATE TOPSOIL AND SUBSOIL FROM PLANTING HOLE FOR USE AS BACKFILL AS NOTED ABOVE.
  - IF ROOTBALL IS PACKAGED IN "PLASTIC BURLAP" OR TREATED BURLAP. REMOVE BURLAP COMPLETELY.
  - WATER THOROUGHLY AFTER INSTALLATION AT RATE OF 3-5 GALLONS/INCH CALIPER.

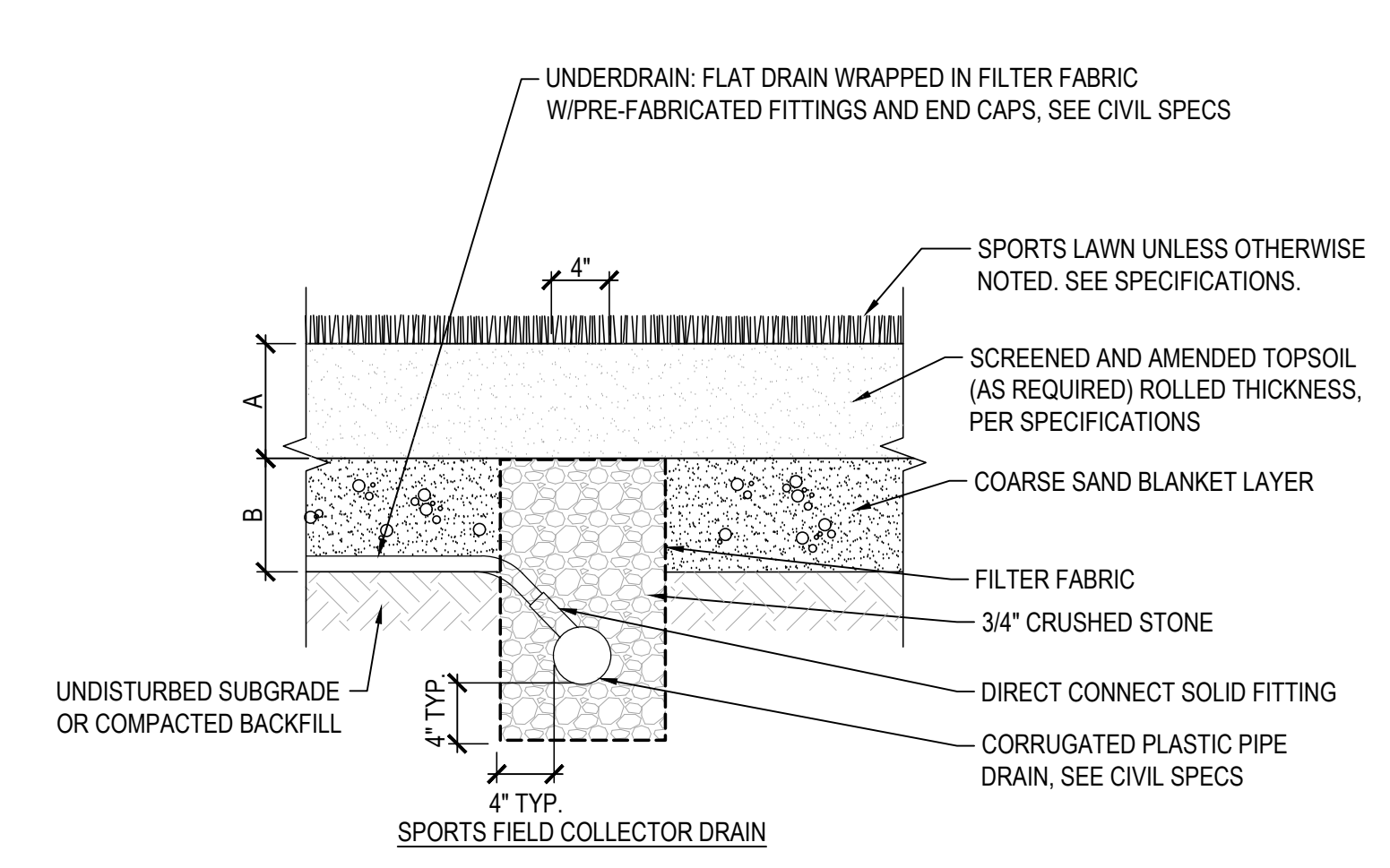
**8 EVERGREEN TREE PLANTING**

SCALE: 1/2" = 1'-0"



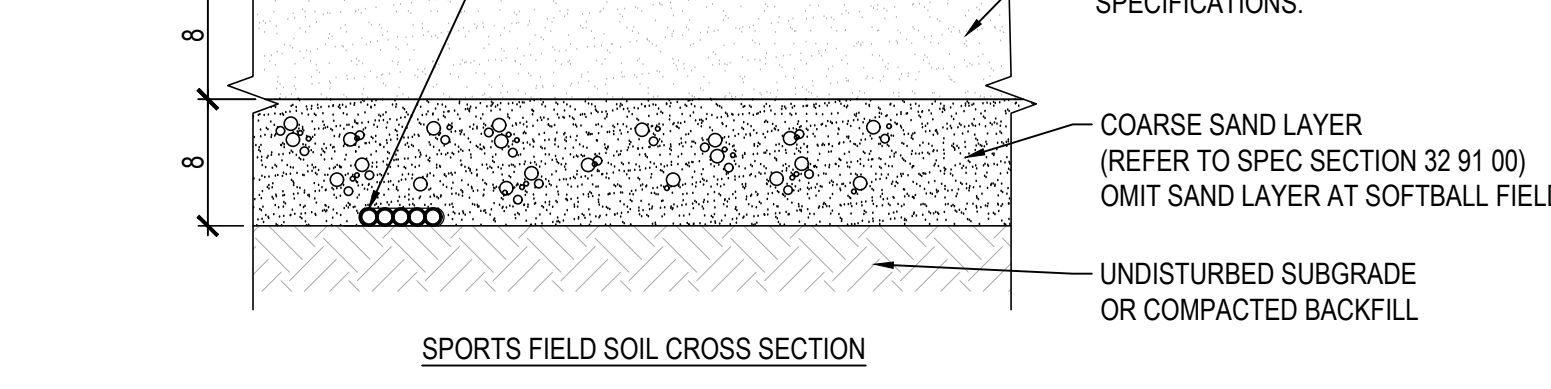
**9 SHRUB PLANTING**

SCALE: 1/2" = 1'-0"



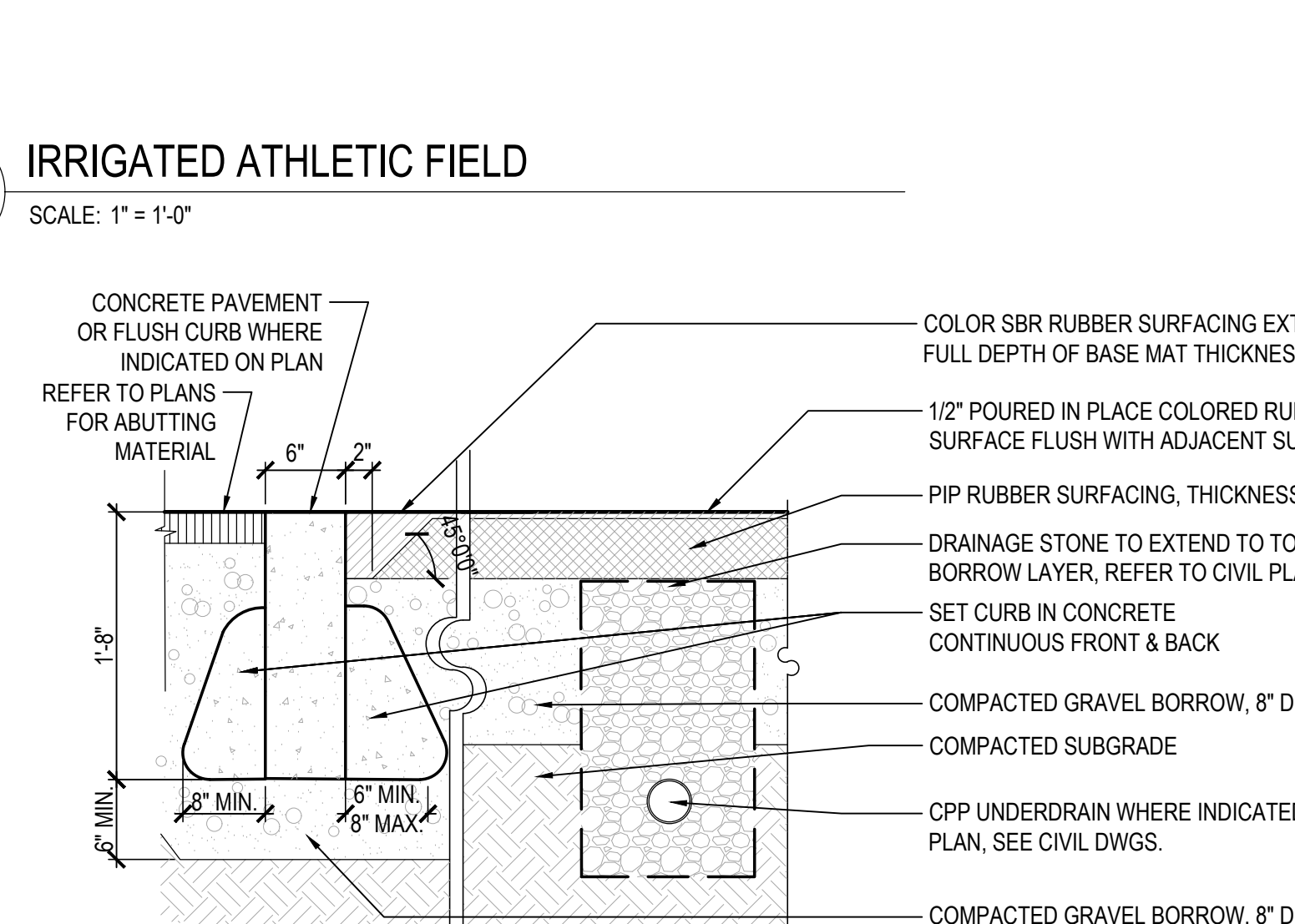
**1 IRRIGATED ATHLETIC FIELD**

SCALE: 1" = 1'-0"



**2 POURED-IN-PLACE RUBBER SAFETY SURFACING**

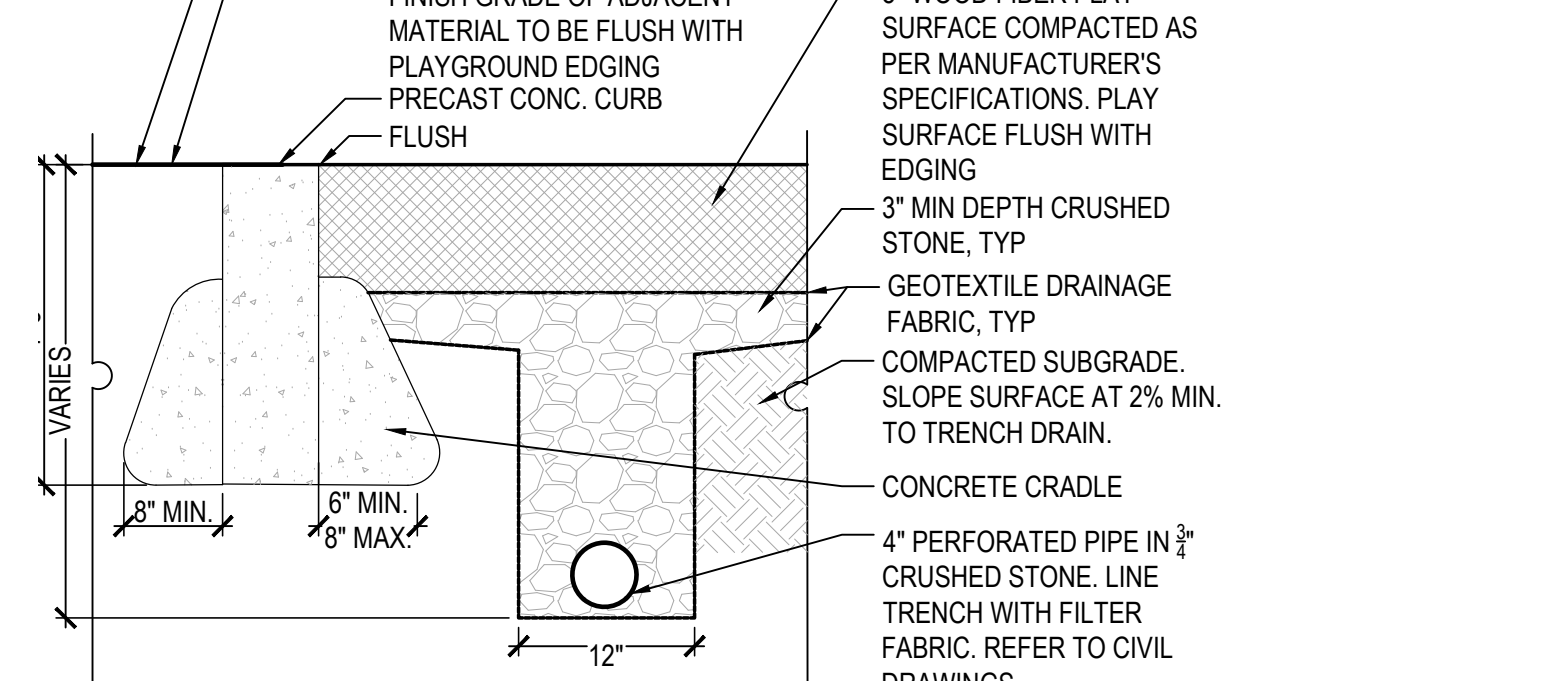
SCALE: 1" = 1'-0"



- NOTES**
- RUBBER BASE MAT THICKNESS VARIES.
  - MUST MEET CPSC SAFETY REQUIREMENTS.

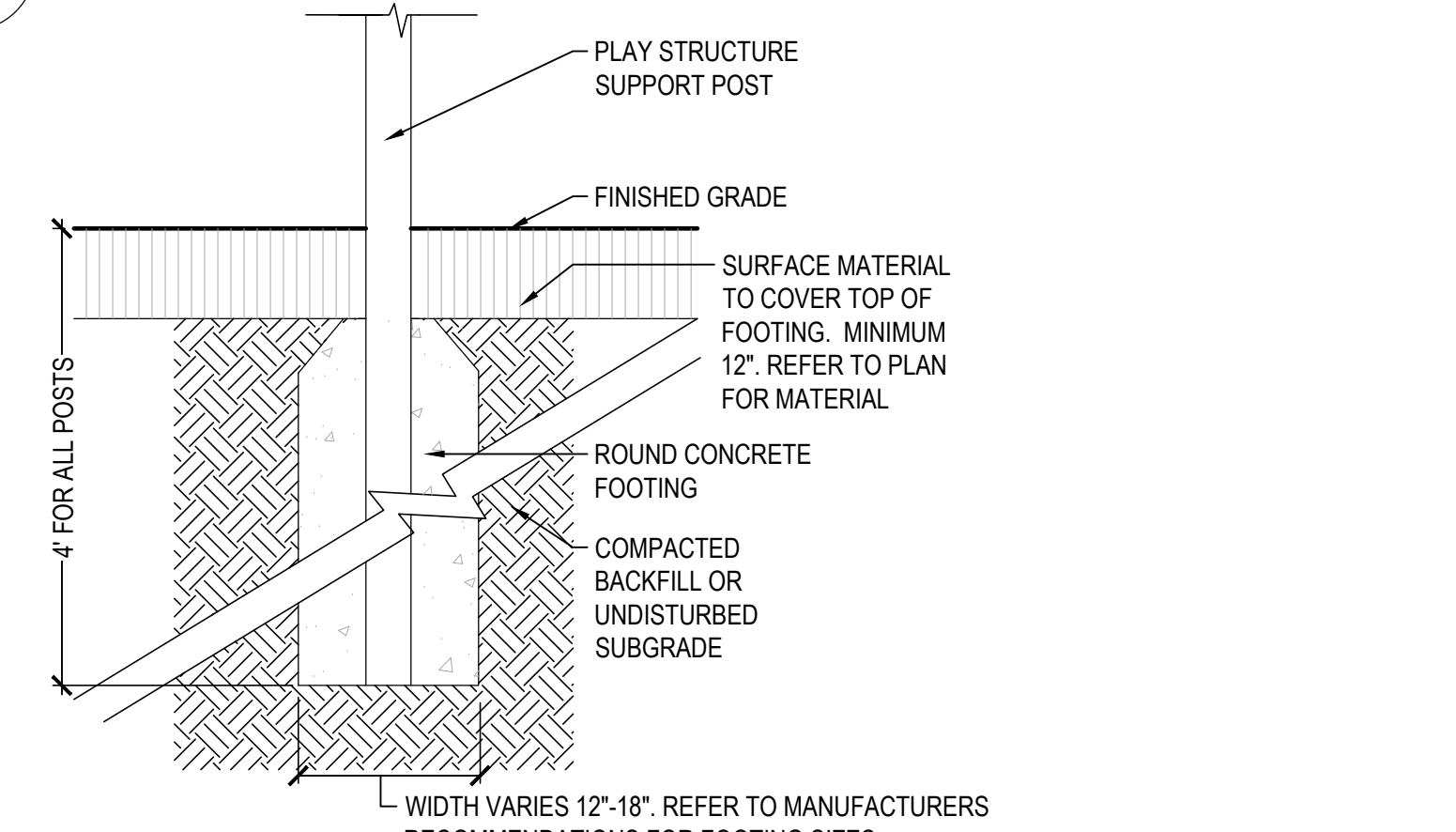
**2 POURED-IN-PLACE RUBBER SAFETY SURFACING**

SCALE: 1" = 1'-0"



**3 WOOD FIBER SAFETY SURFACING**

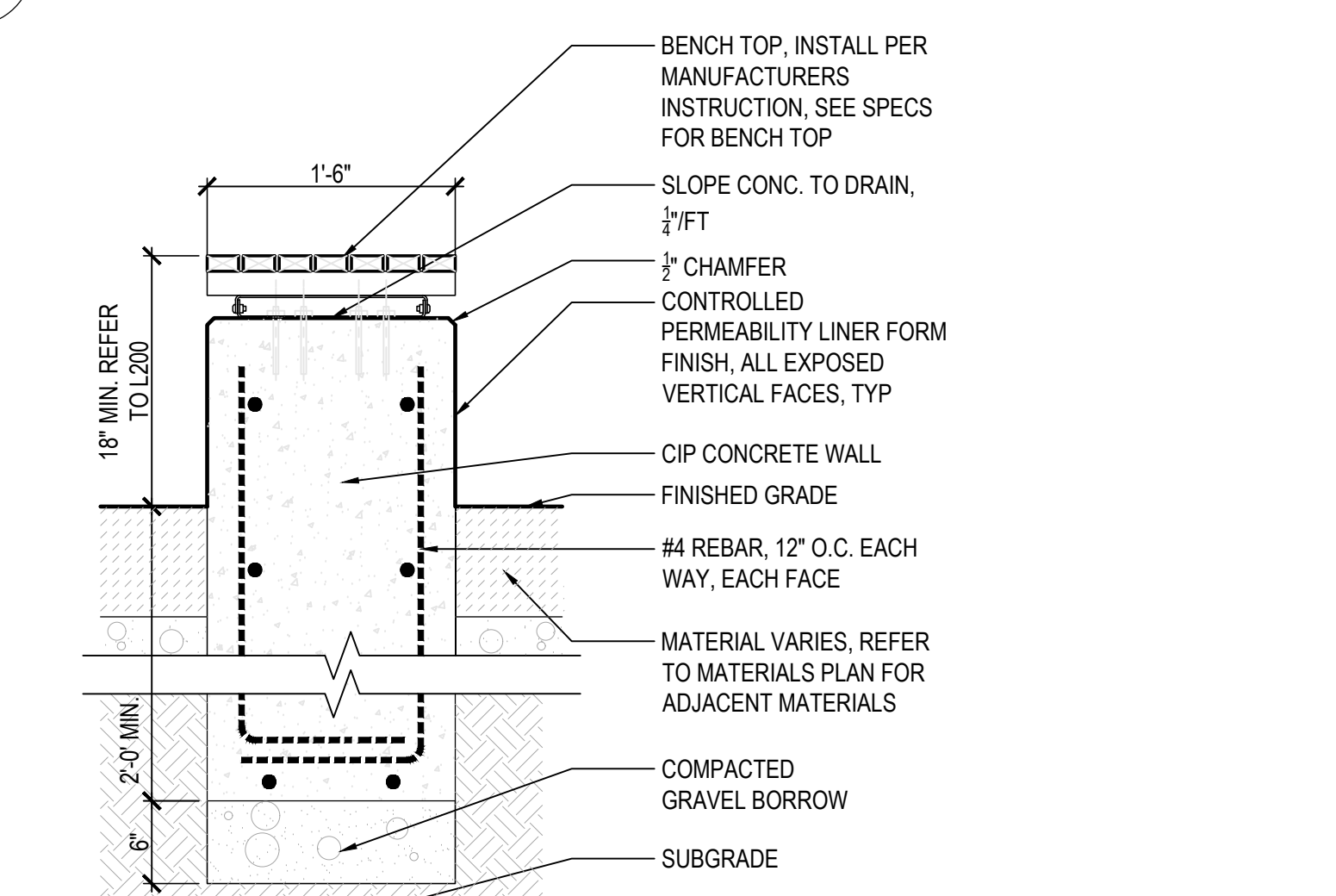
SCALE: 1" = 1'-0"



- NOTES**
- FOOTINGS SHALL BE REQUIRED FOR ALL POSTS AND GROUND CONNECTIONS. SEE PLANS.
  - COORDINATE FOOTING LOCATIONS WITH SUBSURFACE UTILITIES.
  - PER MANUFACTURERS RECOMMENDATION PROVIDE DETAILED SHOP DRAWINGS WITH REQUIRED PROFESSIONAL STAMPS.

**4 PLAY EQUIPMENT FOOTING**

SCALE: 1" = 1'-0"



**5 CIP CONCRETE SEAT WALL WITH WOOD SLAT BENCH**

SCALE: 1" = 1'-0"

**DRA**

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225 Oakland Road Studio 205 South Windsor, CT 06074  
Tel: 617.864.1700 www.dra.com

Planning | Architecture | Interior Design  
Tel: 617.864.1700 www.dra.com

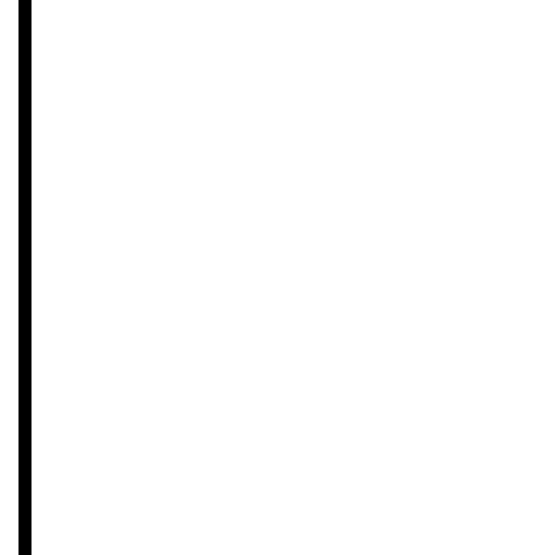
**Tri-County Regional Vocational Technical High School**

147 Pond St, Franklin, MA 02038

**WARNER LARSON**  
LANDSCAPE ARCHITECTS  
100 WEST BROADWAY, BOSTON MA 02107  
617-451-4140 warnerlarson.com

PROGRESS SET

June 14, 2024

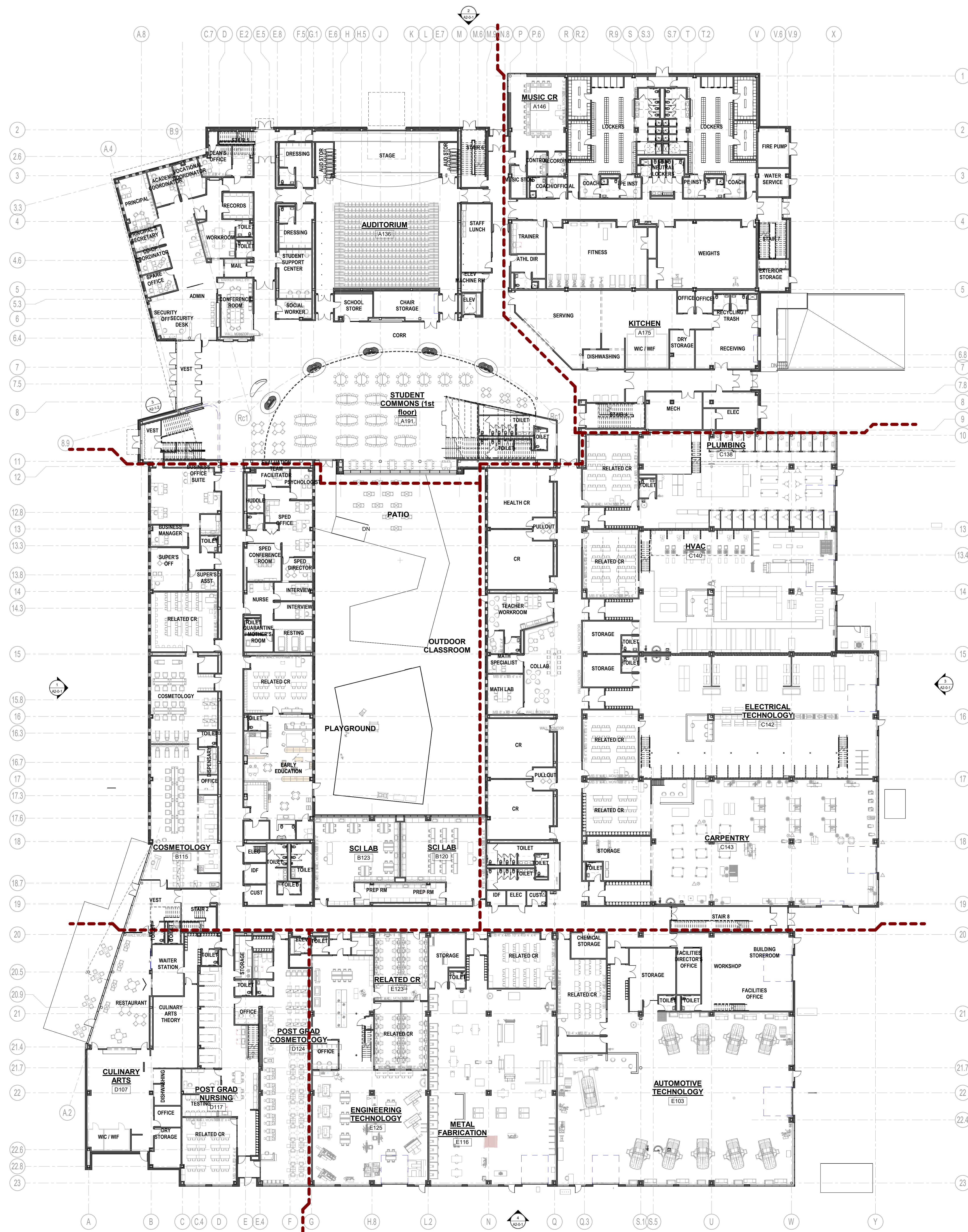


PROJECT NORTH MAGNETIC NORTH

**DETAILS**

Scale: VARIES  
Project: 22001.00  
Author: WLI  
Date: 4/26/2024

**L505**



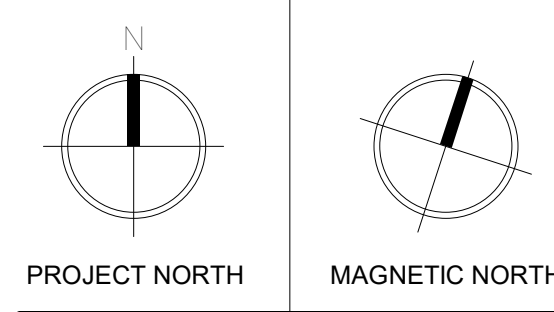
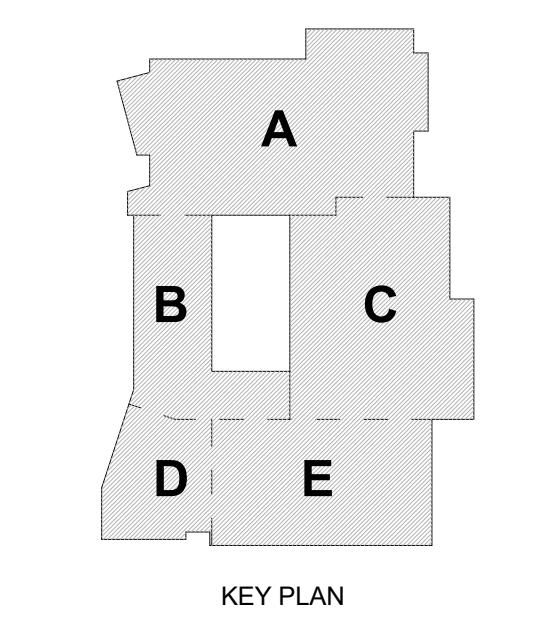
1 OVERALL FIRST FLOOR PLAN  
1" = 20'-0"

**Tri-County  
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 Technical High  
 School**

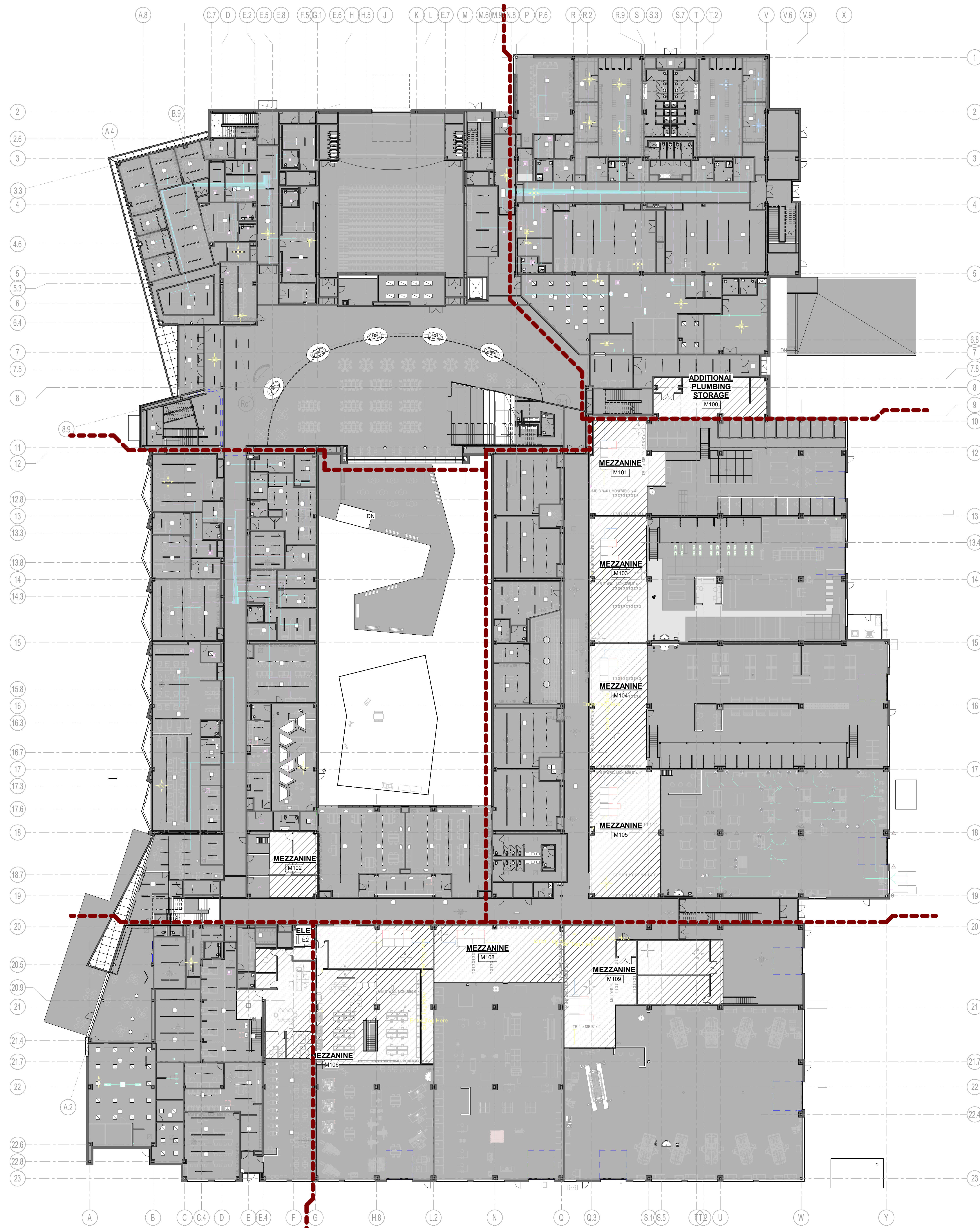
147 Pond St, Franklin, MA  
 02038

DESIGN DEVELOPMENT  
 COST ESTIMATE SET

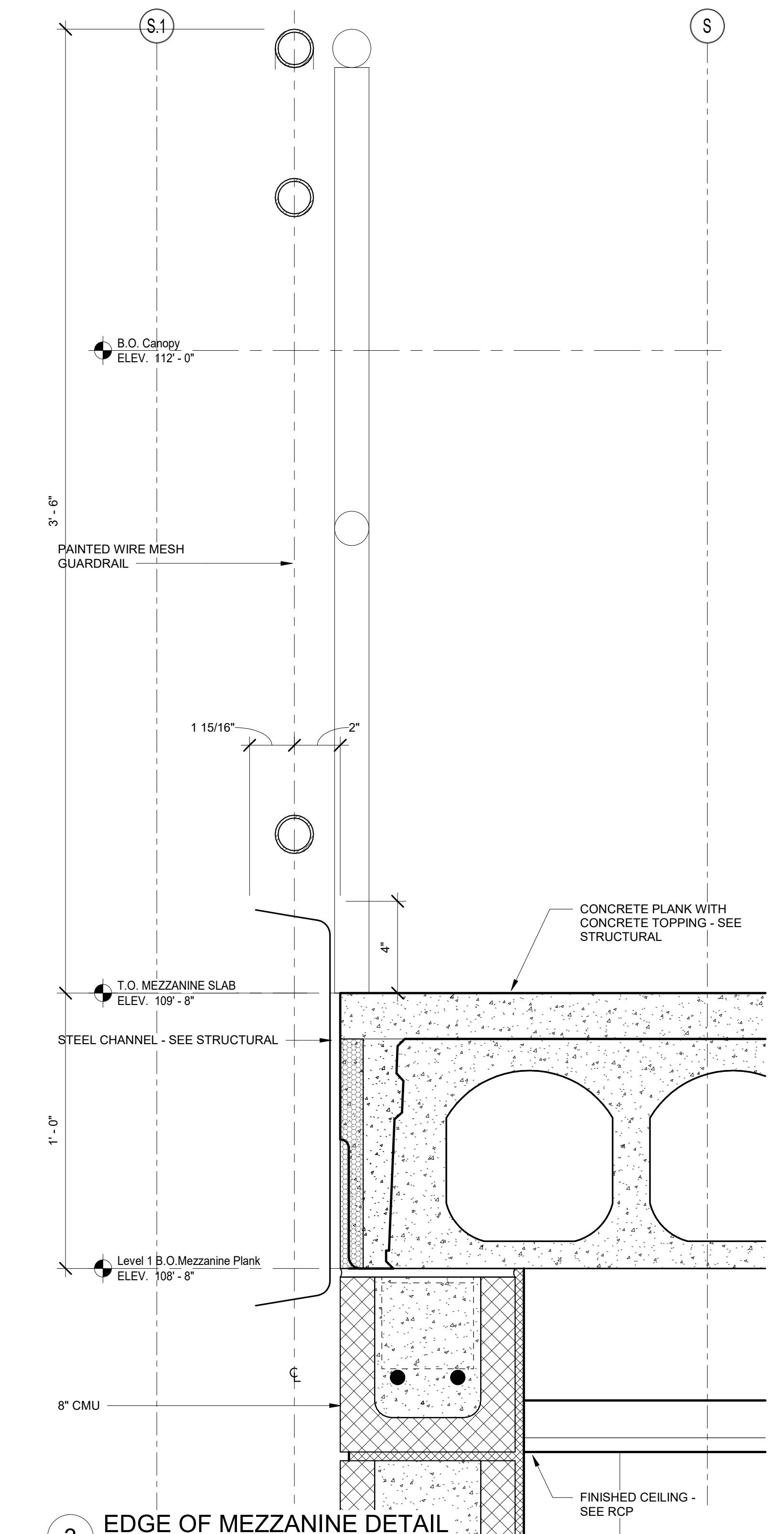
4/1/2024



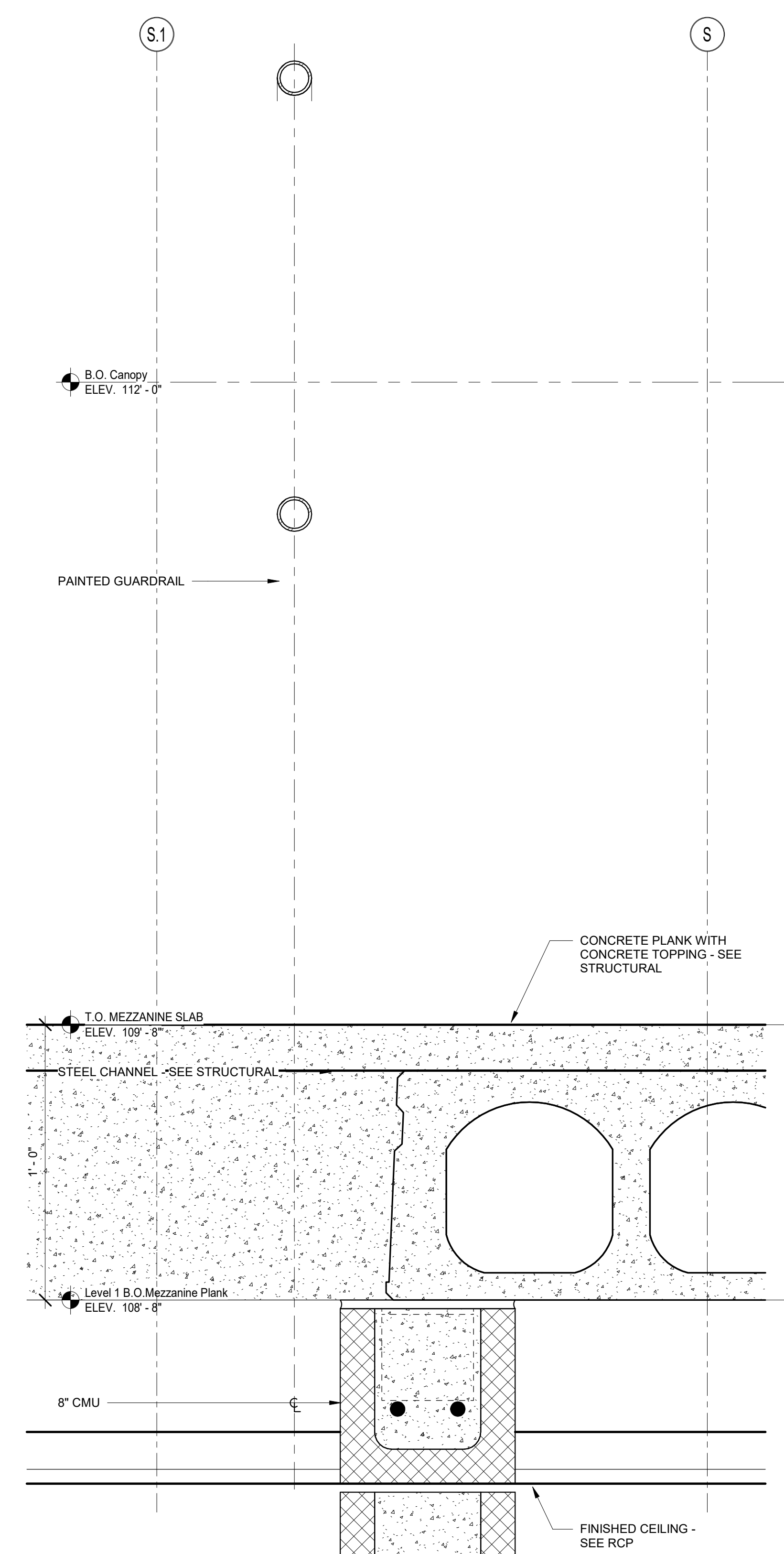
**OVERALL FIRST  
 FLOOR PLAN**



1 OVERALL MEZZANINE PLAN  
1" = 20'-0"



3 EDGE OF MEZZANINE DETAIL  
3" = 1'-0"



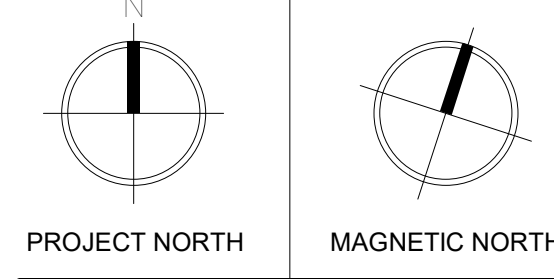
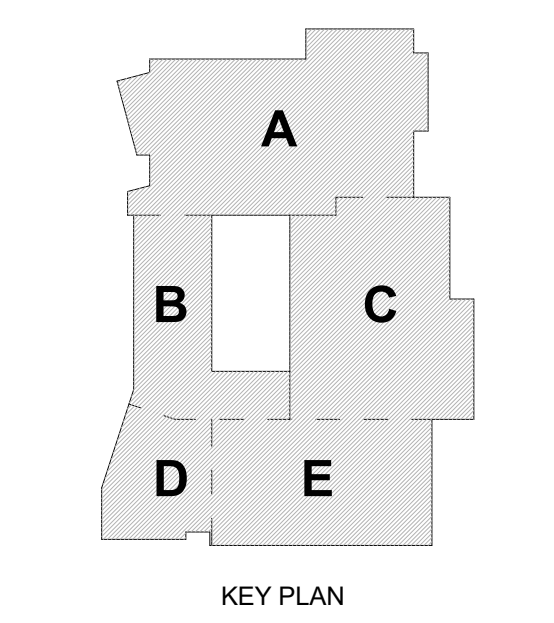
2 EDGE OF MEZZANINE DETAIL  
3" = 1'-0"

**Tri-County Regional Vocational Technical High School**

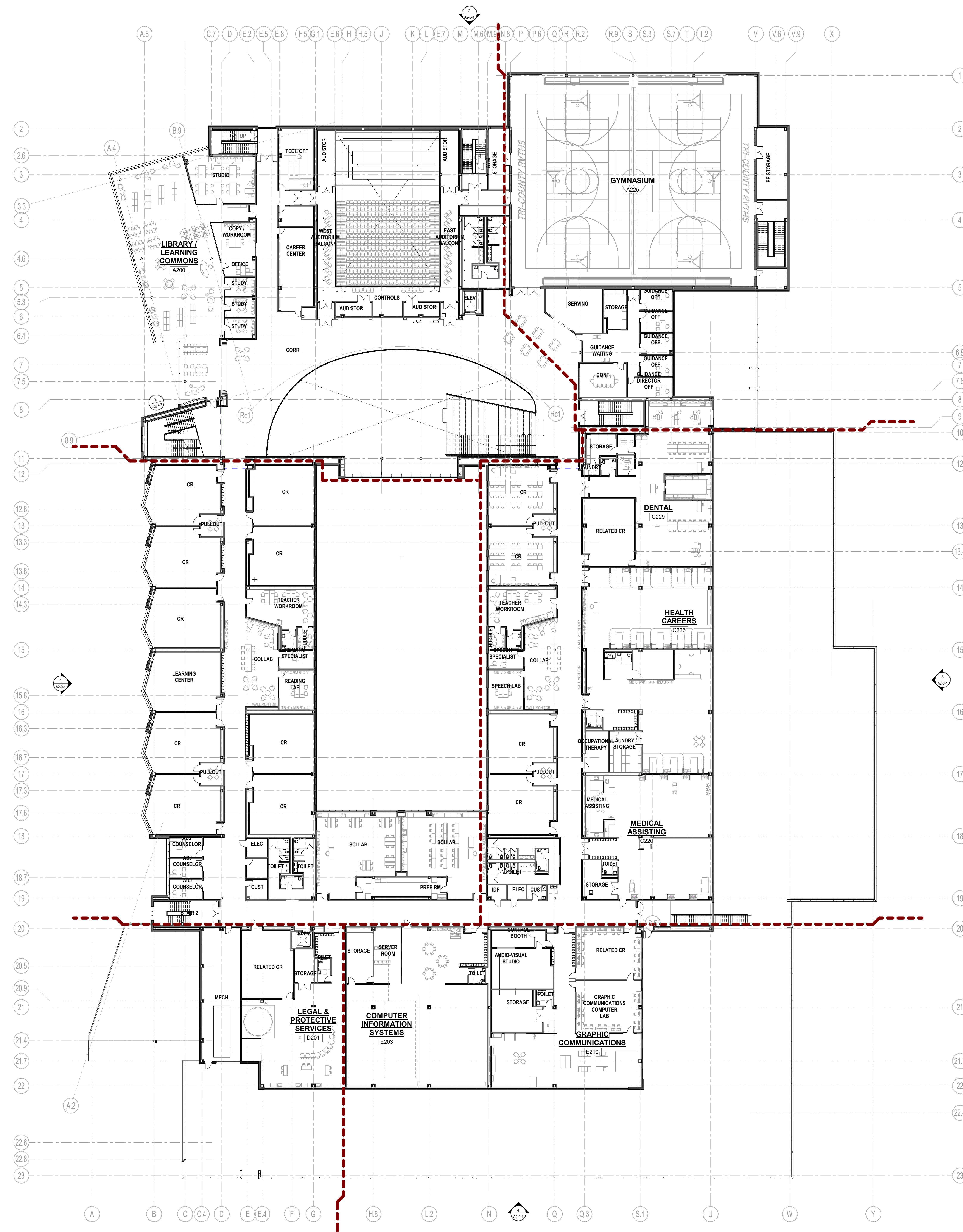
147 Pond St, Franklin, MA 02038

DESIGN DEVELOPMENT COST ESTIMATE SET

4/1/2024



**OVERALL FIRST FLOOR MEZZANINE PLAN**



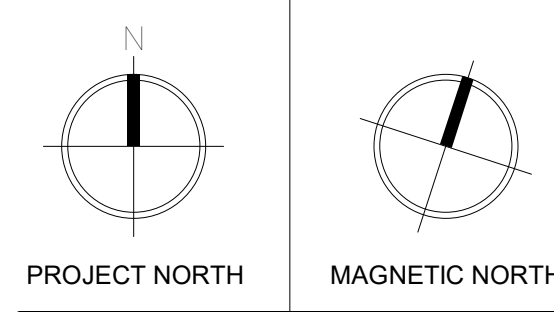
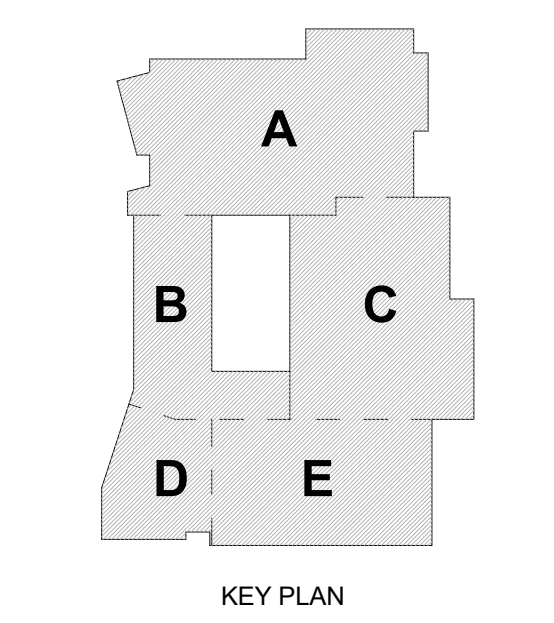
1 OVERALL SECOND FLOOR PLAN  
1" = 20'-0"

**Tri-County Regional Vocational Technical High School**

147 Pond St, Franklin, MA 02038

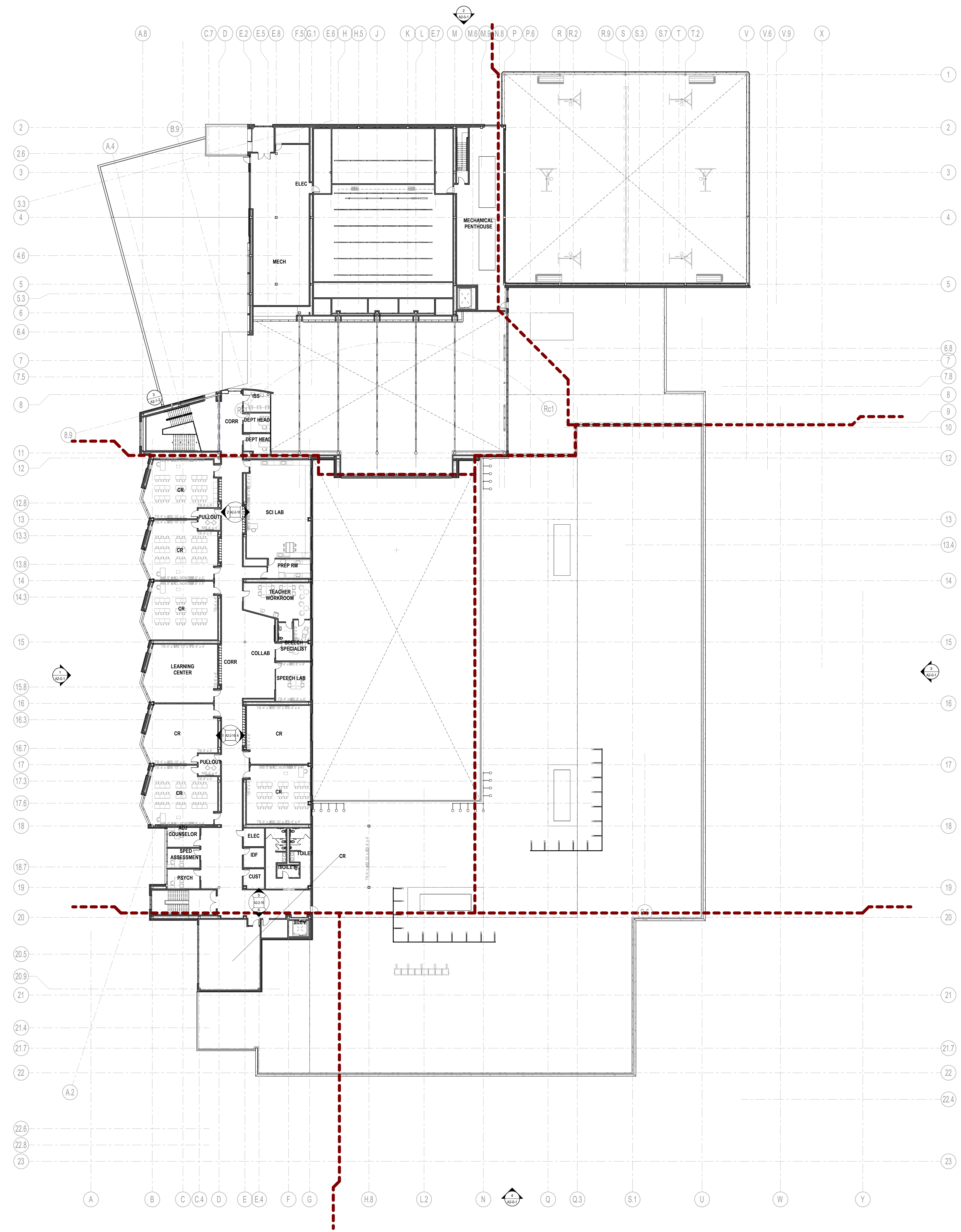
DESIGN DEVELOPMENT COST ESTIMATE SET

4/1/2024

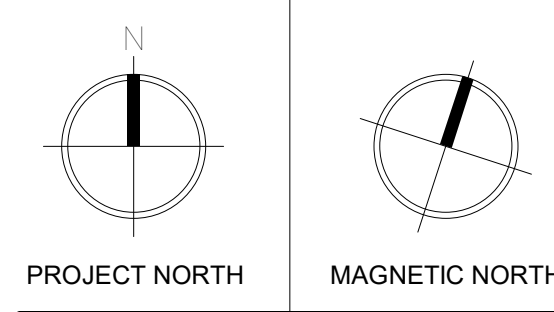
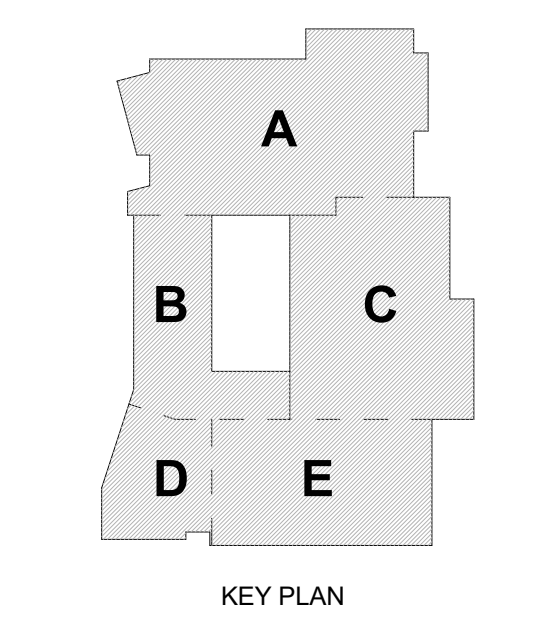


**OVERALL SECOND FLOOR PLAN**

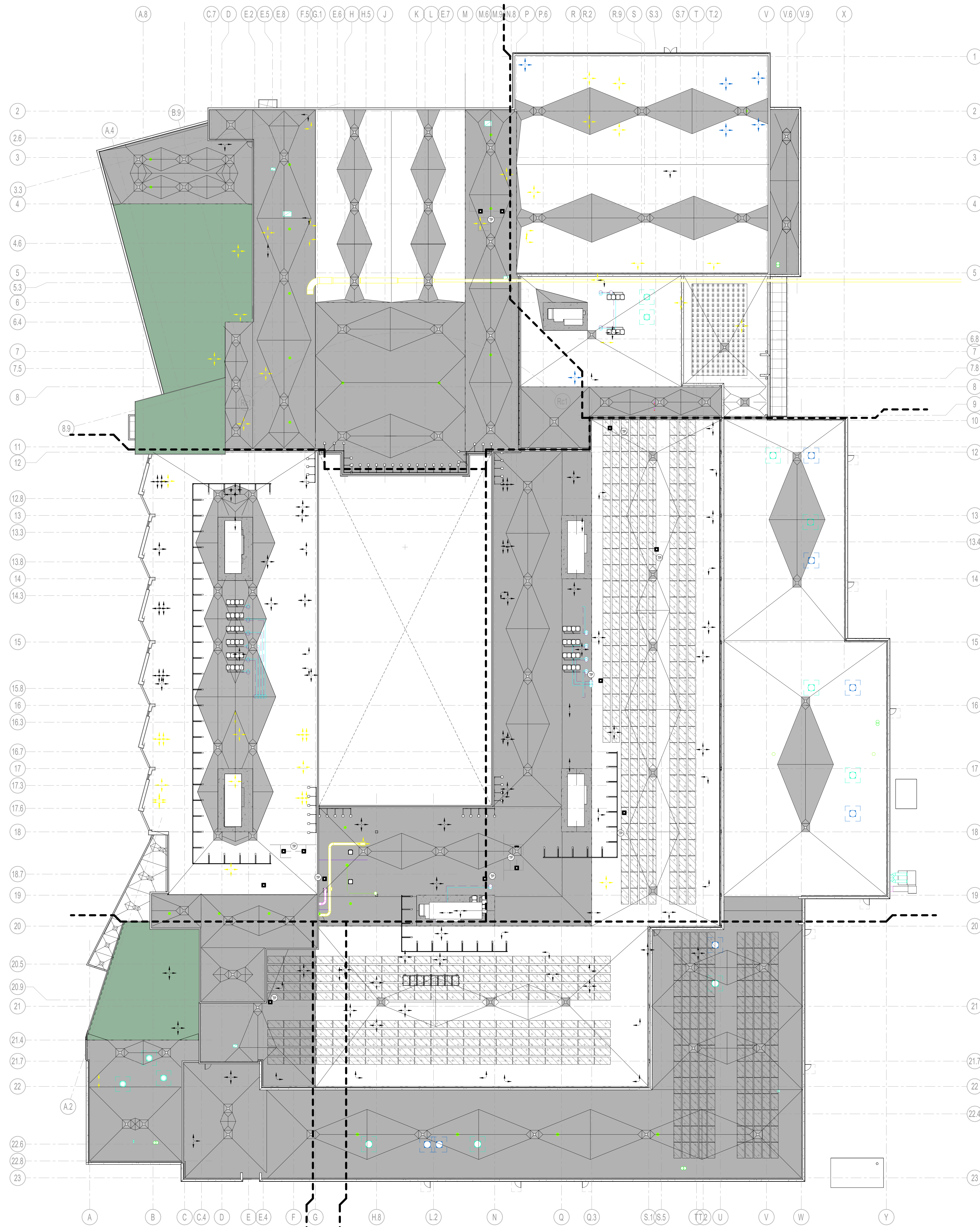




1 OVERALL THIRD FLOOR PLAN  
1" = 20'-0"



**OVERALL THIRD FLOOR PLAN**

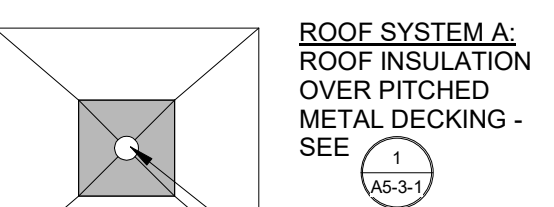

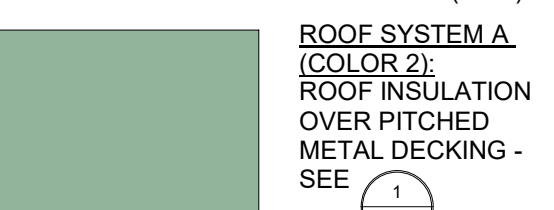
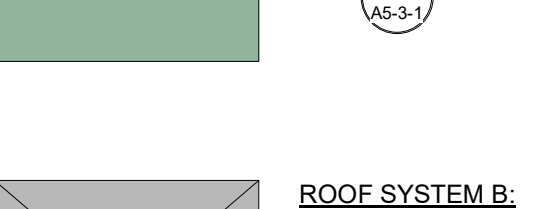
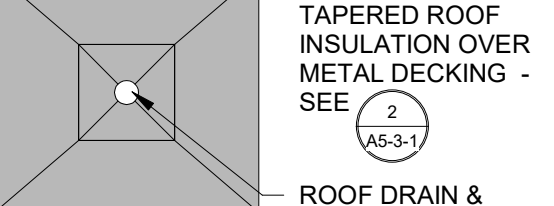
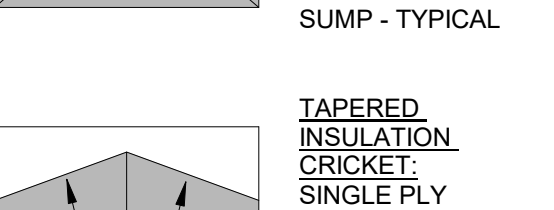
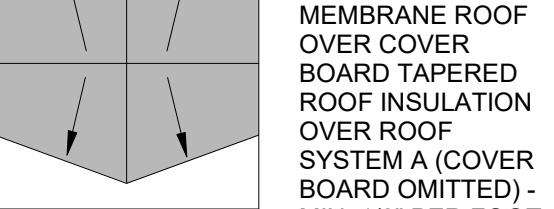

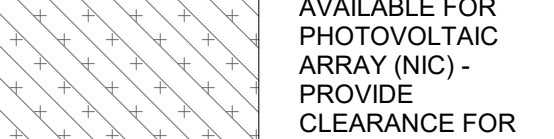



1 OVERALL ROOF PLAN  
1" = 20'-0"

**Tri-County Regional Vocational Technical High School**

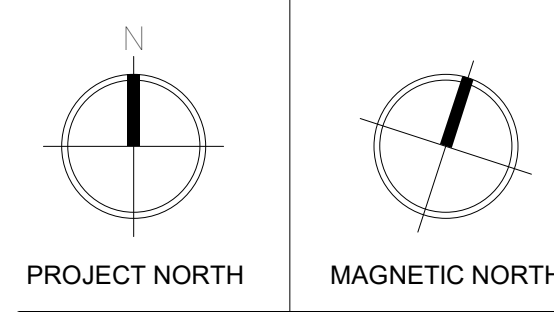
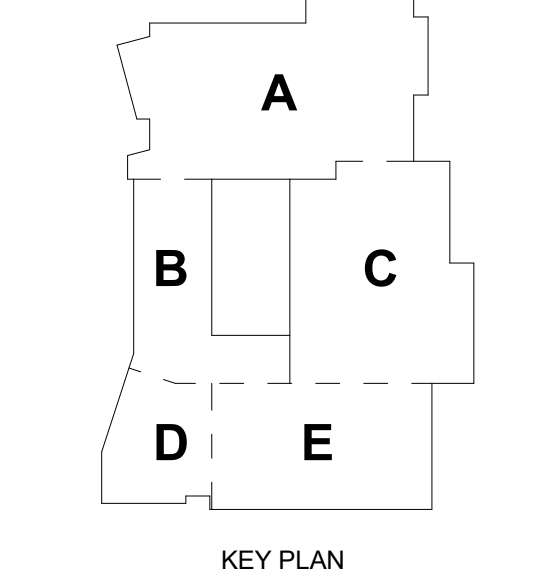
147 Pond St, Franklin, MA 02038

**ROOF LEGEND**

-  **ROOF SYSTEM A**  
ROOF INSULATION OVER PITCHED METAL DECKING - SEE (A3.3)
-  **ROOF DRAIN & SUMP - TYPICAL**  
THEORETICAL VALEY LINE (TYP.)
-  **ROOF SYSTEM A (COLOR 2)**  
ROOF INSULATION OVER PITCHED METAL DECKING - SEE (A3.3)
-  **ROOF SYSTEM B**  
TAPERED ROOF INSULATION OVER METAL DECKING - SEE (A3.3)
-  **ROOF DRAIN & SUMP - TYPICAL**
-  **TAPERED INSULATION**  
CRIBBLE SINGLE PLY MEMBRANE ROOF OVER COVER BOARD TAPERED ROOF INSULATION OVER ROOF SYSTEM A (COVER BOARD OMITTED) - MIN. 1/2" PER FOOT SLOPE
-  **ROOF AREA AVAILABLE FOR PHOTOVOLTAIC ARRAY (INC.)**  
PROVIDE CLEARANCE FOR ROOF DRAINS
-  **H.P.**  
HIGH POINT OF PITCHED METAL DECK - SEE WALL SECTIONS FOR B.O. DECK ELEVATIONS
-  **(-7' 1/4")**  
ELEVATION OF PITCHED STEEL RELATIVE TO ADJACENT HIGH POINT
-  **4' 1/2"**  
THICKNESS OF TAPERED INSULATION OVER ROOF DECK

**DESIGN DEVELOPMENT COST ESTIMATE SET**

4/1/2024



**OVERALL ROOF PLAN**

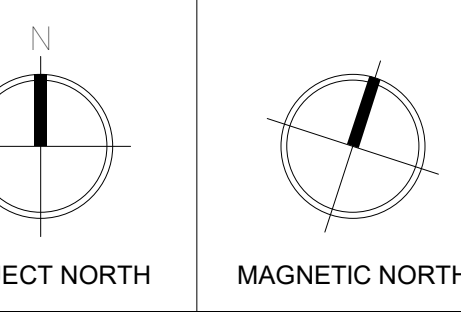
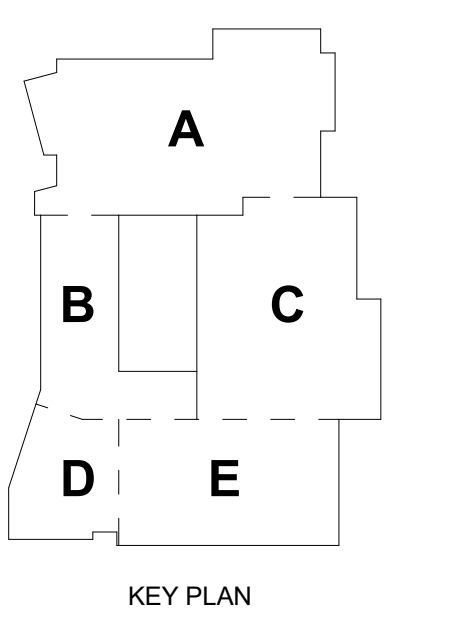
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**Tri-County Regional Vocational Technical High School**

147 Pond St, Franklin, MA 02038

DESIGN DEVELOPMENT COST ESTIMATE SET

4/1/2024

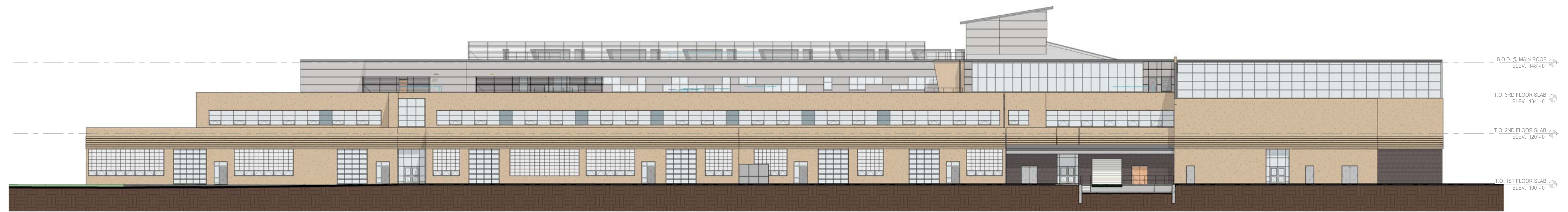


**OVERALL BUILDING ELEVATIONS**

Scale: 1/16" = 1'-0"  
 Project: 22001.00  
 Author:  
 Date: 4/1/2024  
**A2-0-1**



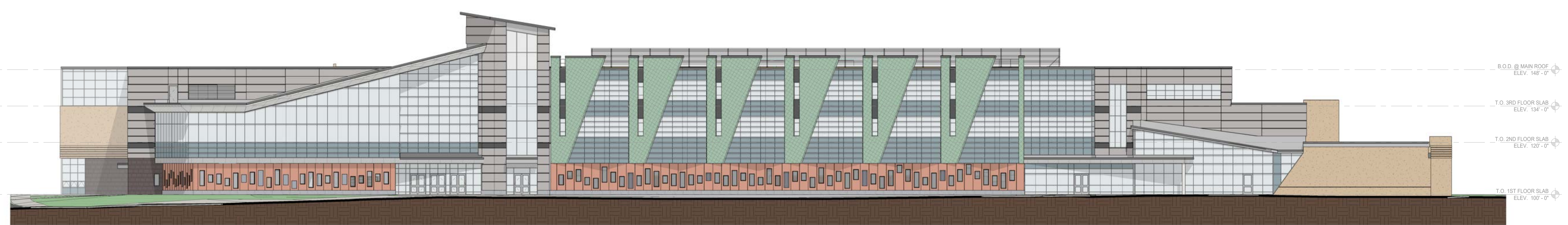
**4 OVERALL SOUTH BUILDING ELEVATION**  
 1/16" = 1'-0"



**3 OVERALL EAST BUILDING ELEVATION**  
 1/16" = 1'-0"



**2 OVERALL NORTH BUILDING ELEVATION**  
 1/16" = 1'-0"

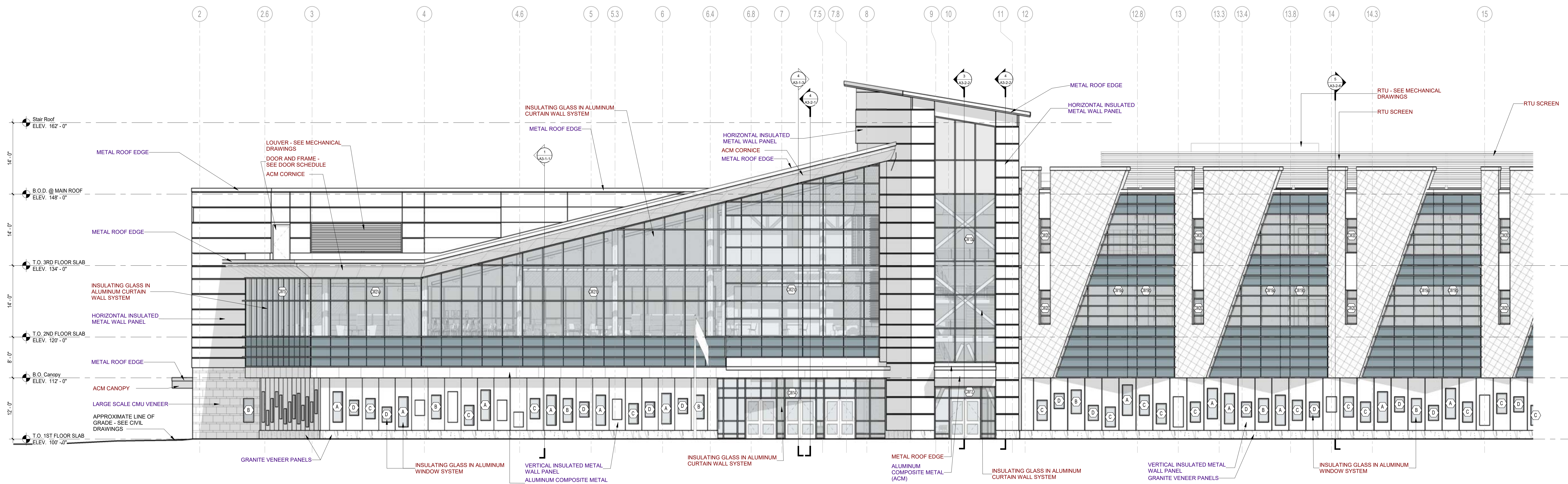


**1 OVERALL WEST BUILDING ELEVATION**  
 1/16" = 1'-0"

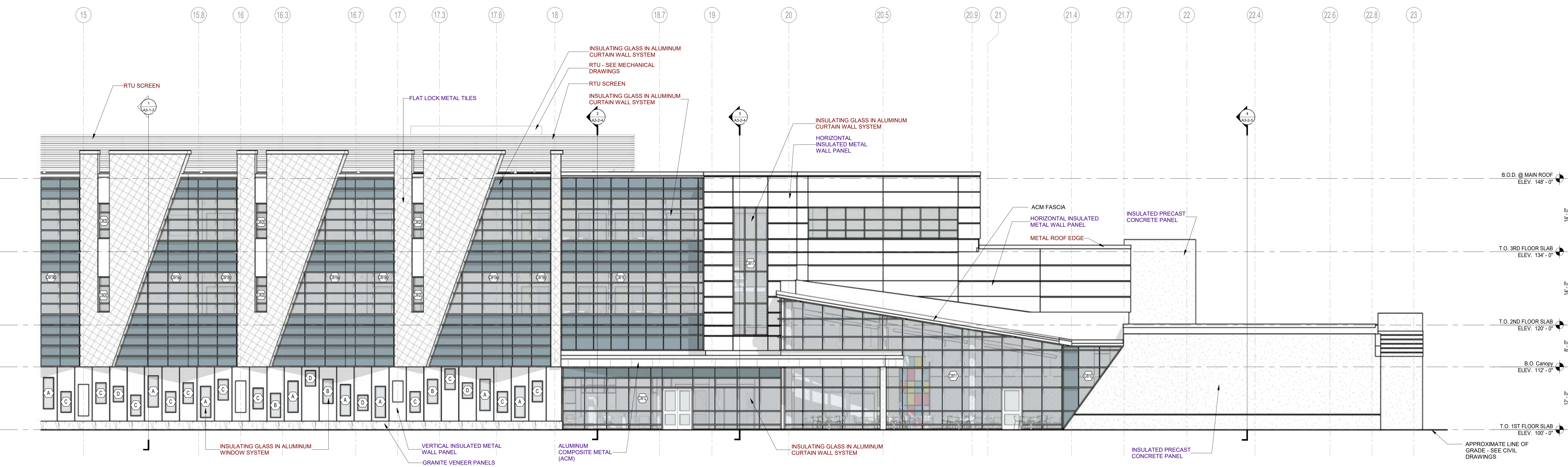
**Tri-County Regional Vocational Technical High School**

147 Pond St, Franklin, MA 02038

**BUILDING ELEVATION GENERAL NOTES:**  
 1. AT ALL INSIDE, MASONRY VENEER CORNERS, PROVIDE CONTROL JOINT (C.J.), INCLUDING AT CHANGES IN MASONRY VENEER MATERIALS.  
 2. WHERE ADJACENT BUILDING COMPONENTS ABUT THE EXTERIOR FACE OF SPLIT FACE CMU, PROVIDE GROUND FACE CMU OF SAME COLOR TO ALLOW FOR CONTINUOUS AND TIGHT SEALANT JOINT.  
 3. PROVIDE FACTORY-FORMED, L-SHAPED OUTSIDE CORNER PANEL AT ALL OUTSIDE INSULATED METAL WALL PANEL CORNER CONDITIONS.



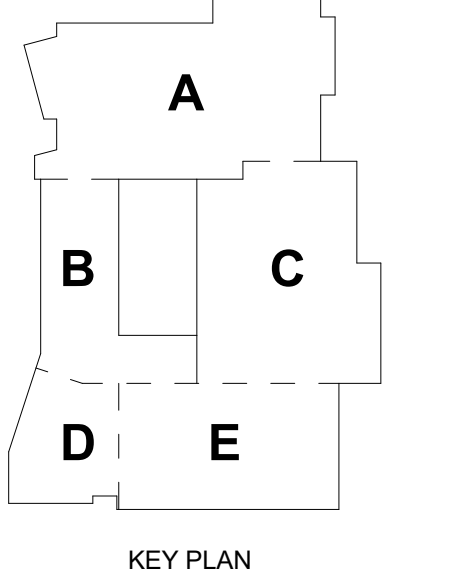
2 WEST BUILDING ELEVATION  
 1/8" = 1'-0"



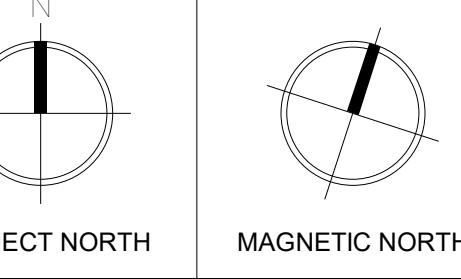
1 WEST BUILDING ELEVATION  
 1/8" = 1'-0"

DESIGN DEVELOPMENT COST ESTIMATE SET

4/1/2024



KEY PLAN

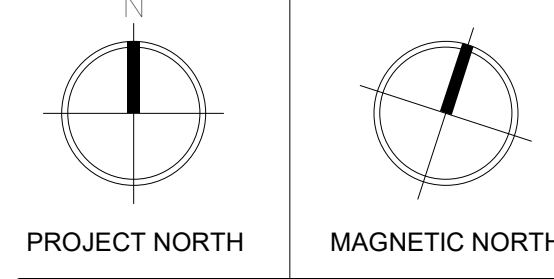
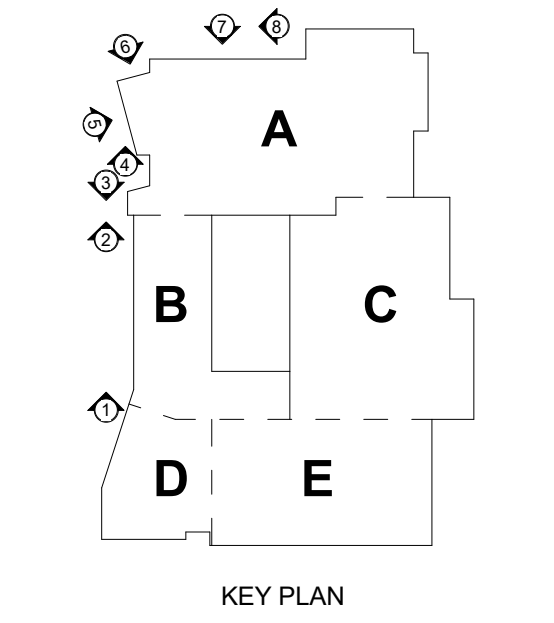


PROJECT NORTH MAGNETIC NORTH

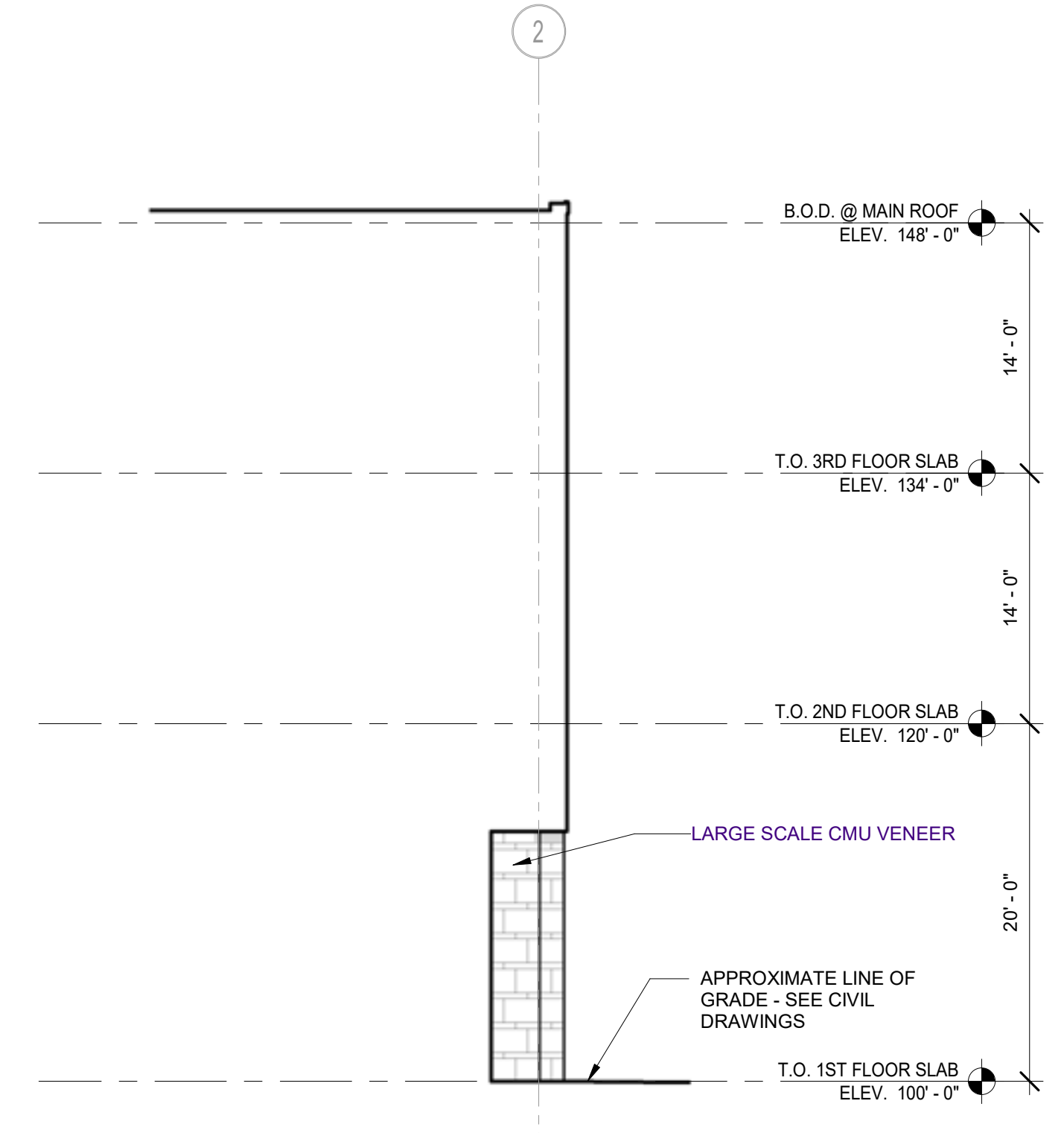
**BUILDING ELEVATIONS**

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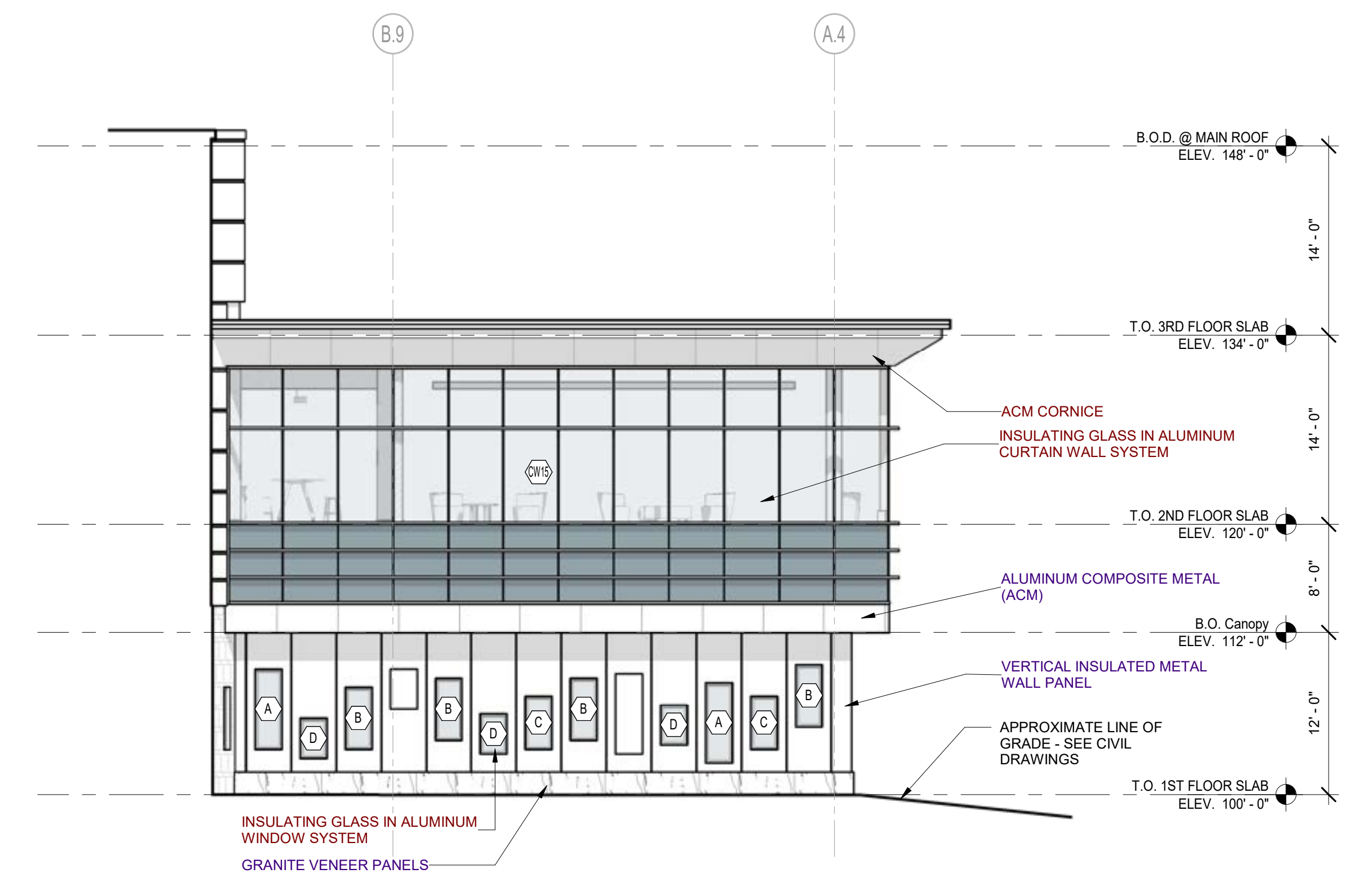
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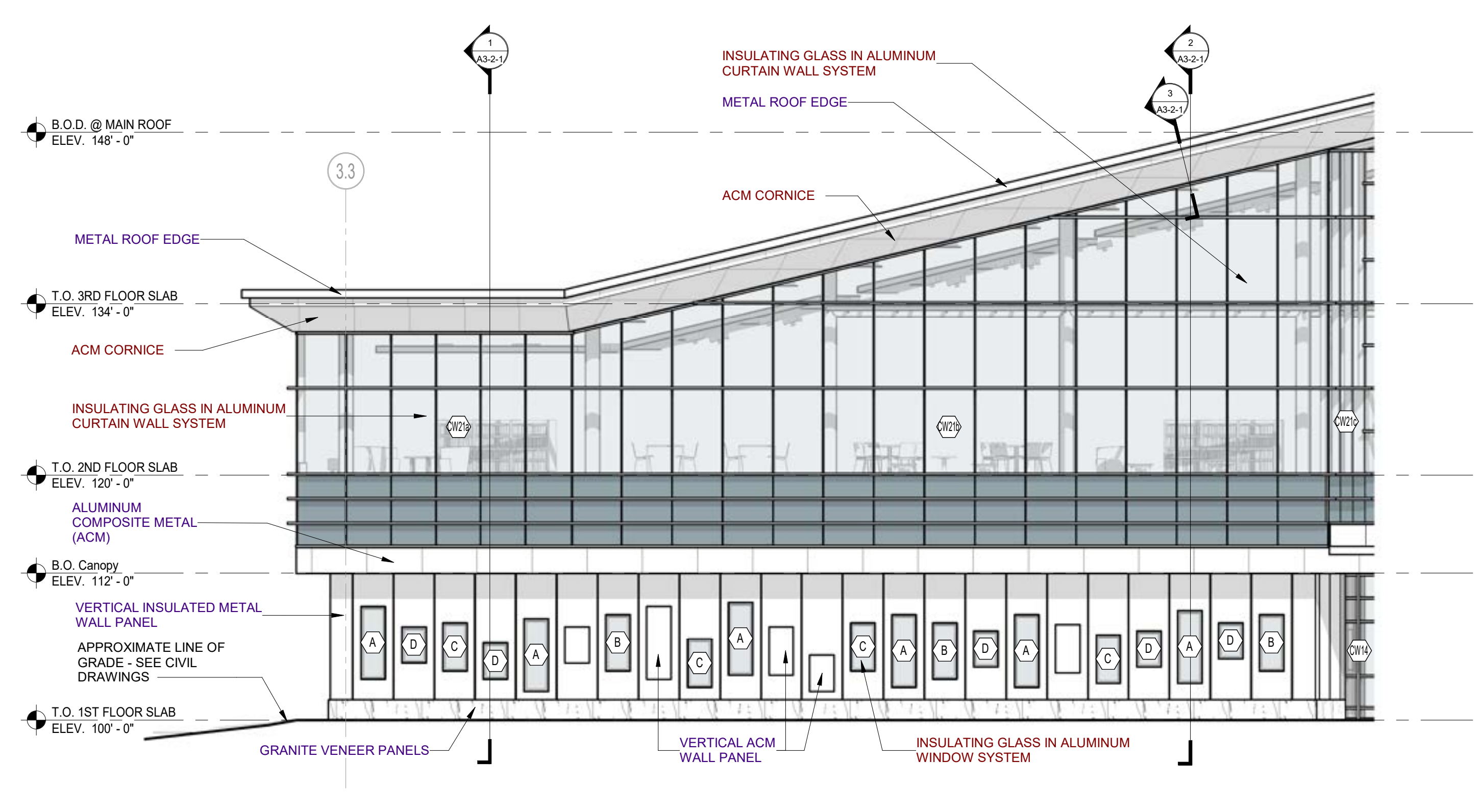
**BUILDING ELEVATIONS**



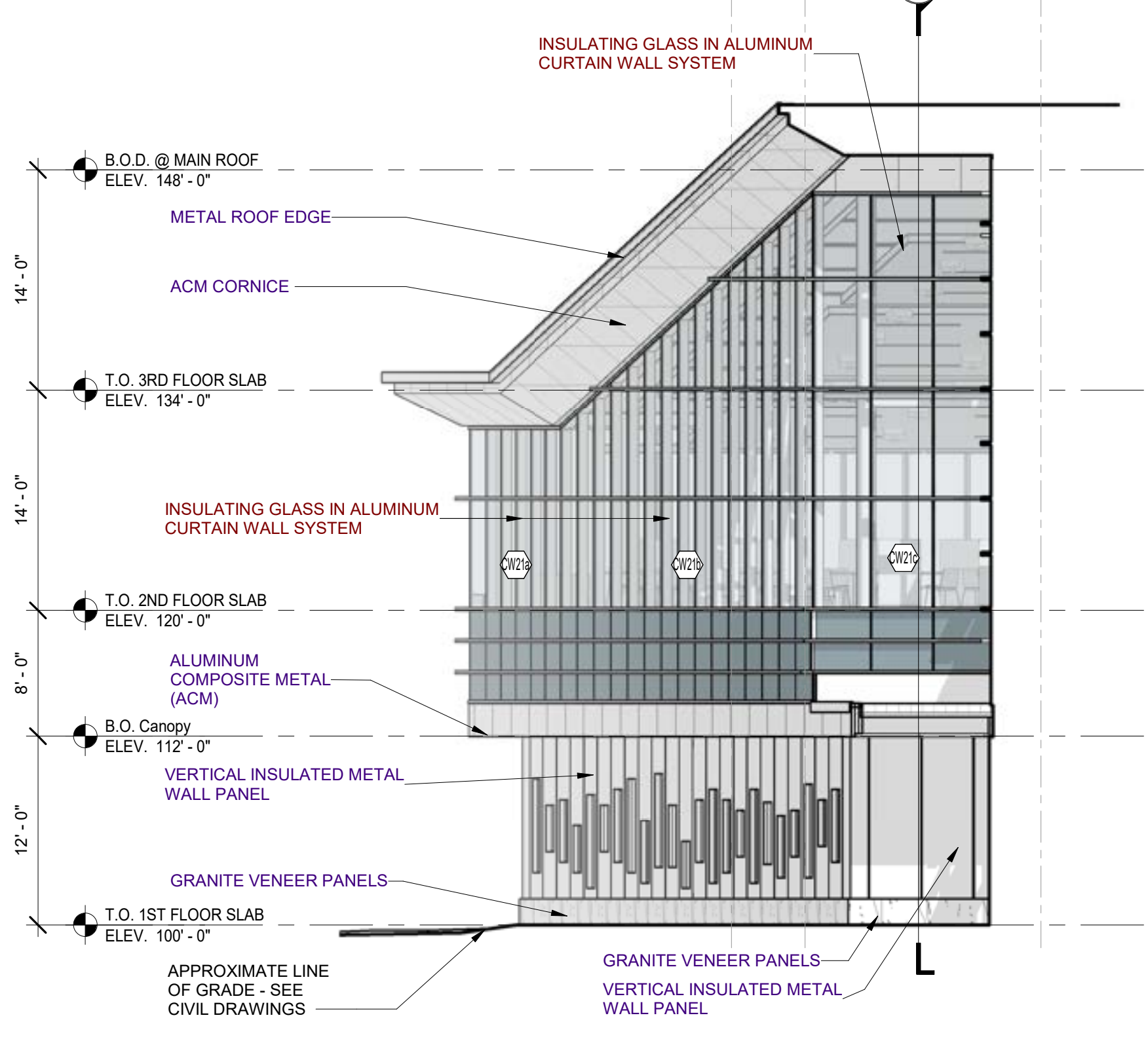
8 EAST BUILDING ELEVATION  
1/8" = 1'-0"



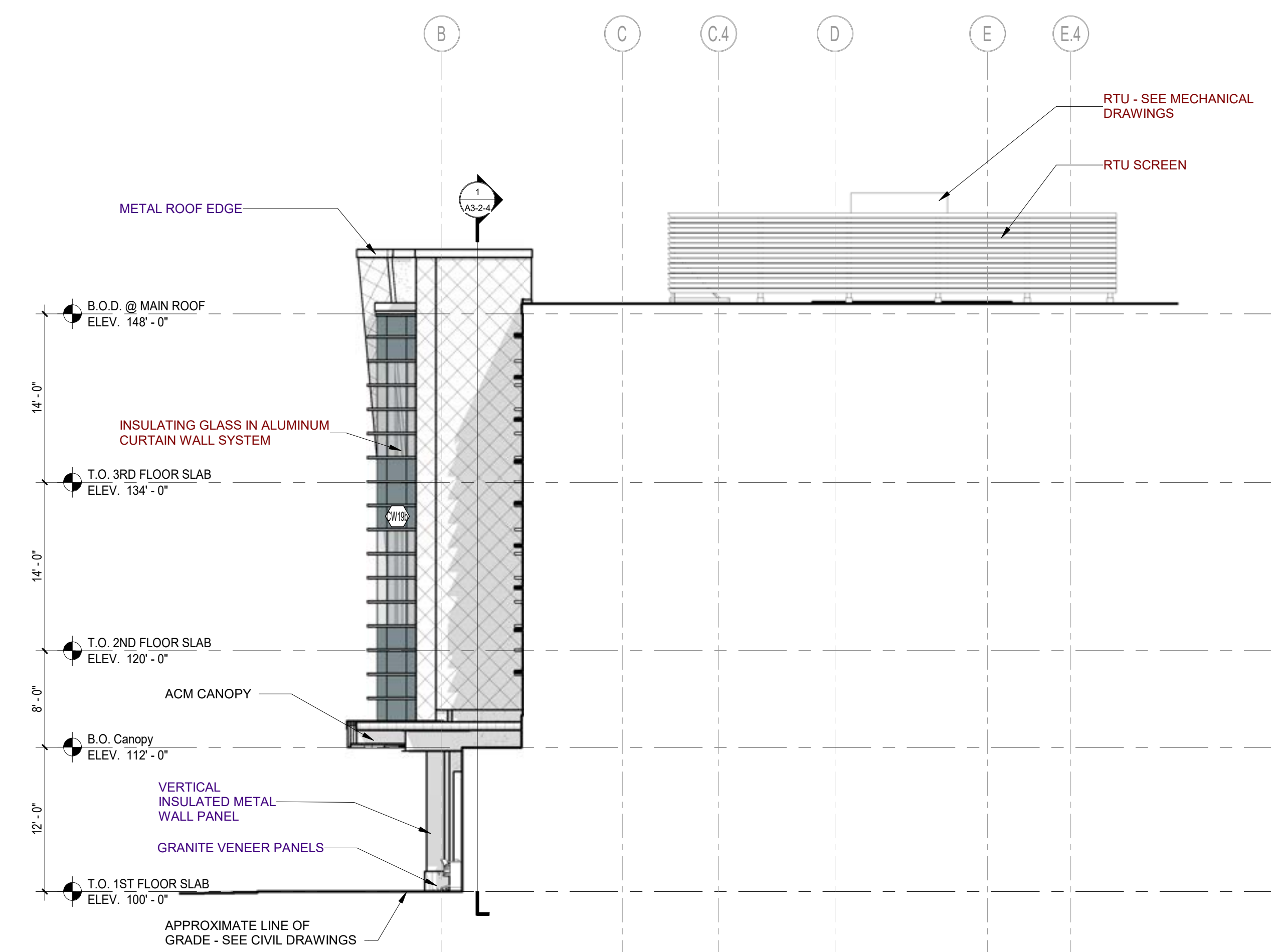
6 NORTH BUILDING ELEVATION  
1/8" = 1'-0"



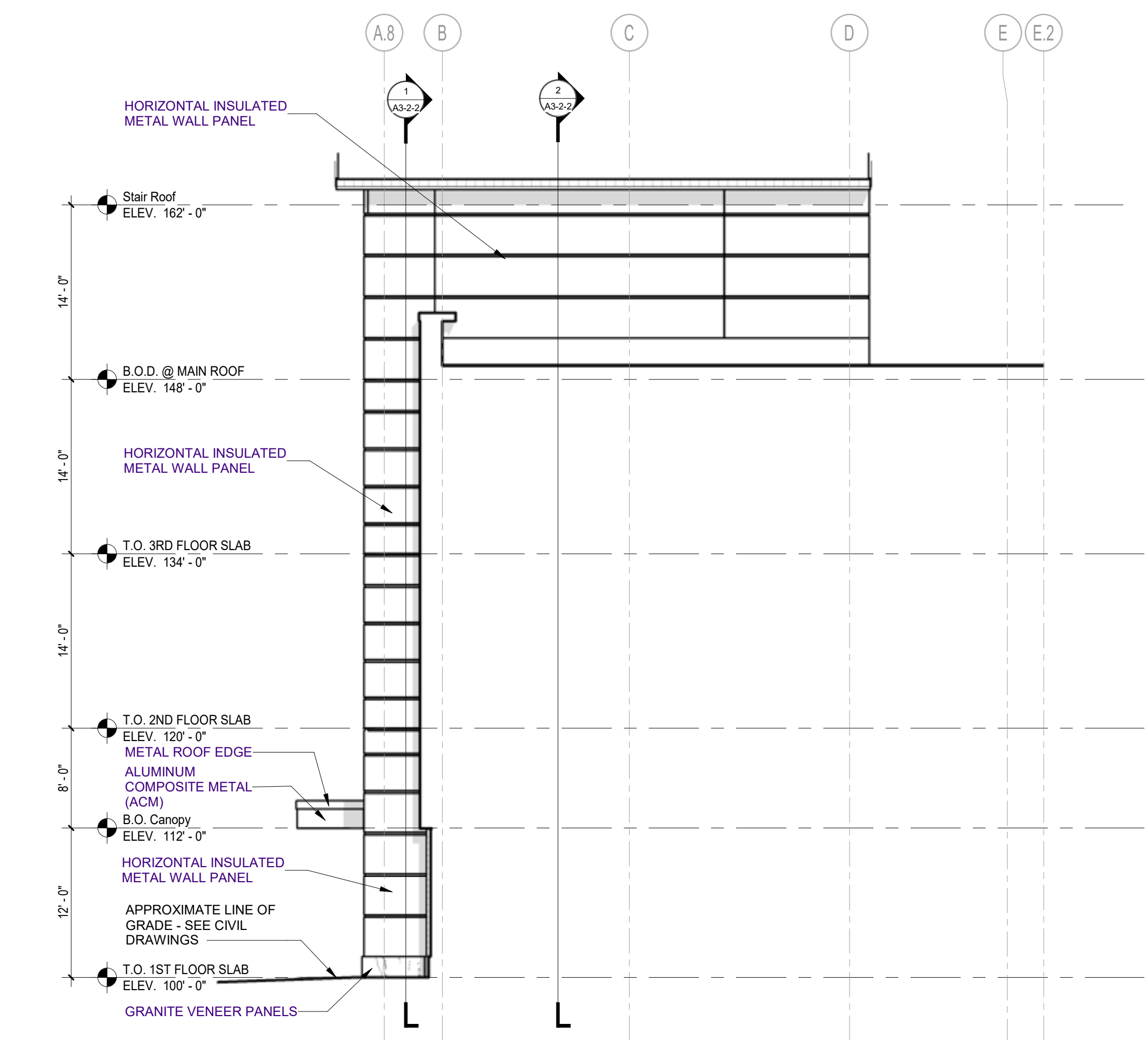
5 WEST BUILDING ELEVATION  
1/8" = 1'-0"



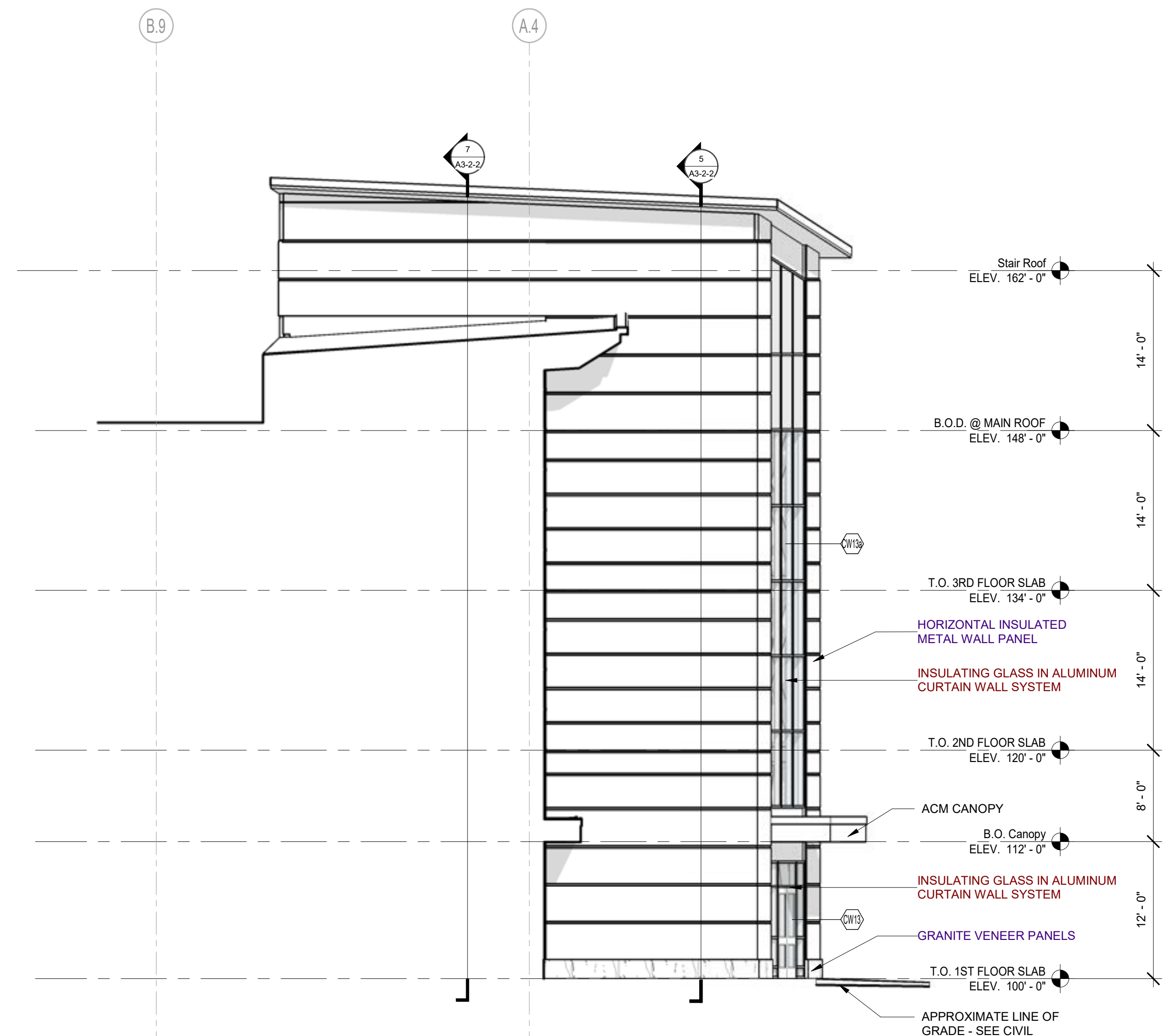
4 SOUTH BUILDING ELEVATION  
1/8" = 1'-0"



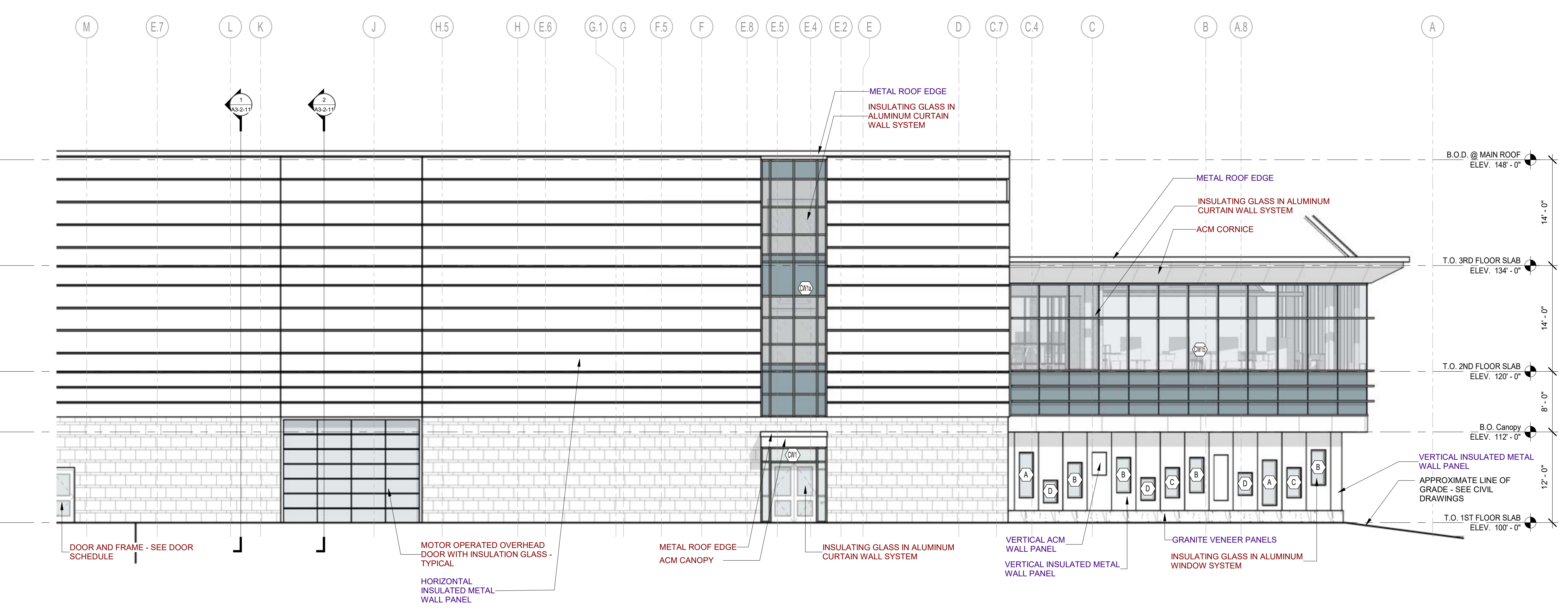
1 SOUTH BUILDING ELEVATION  
1/8" = 1'-0"



2 SOUTH BUILDING ELEVATION  
1/8" = 1'-0"

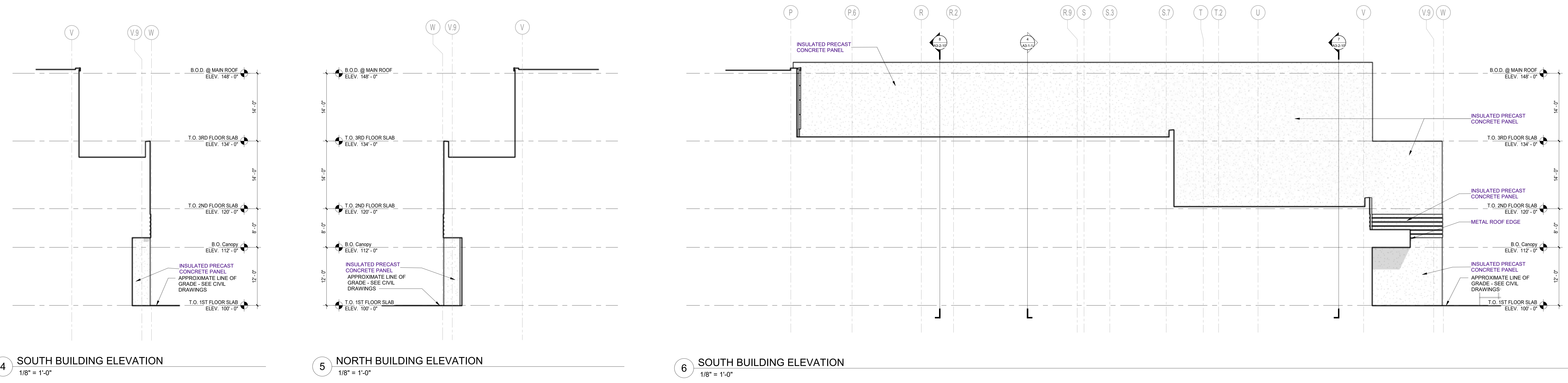


3 NORTH BUILDING ELEVATION  
1/8" = 1'-0"



7 NORTH BUILDING ELEVATION  
1/8" = 1'-0"

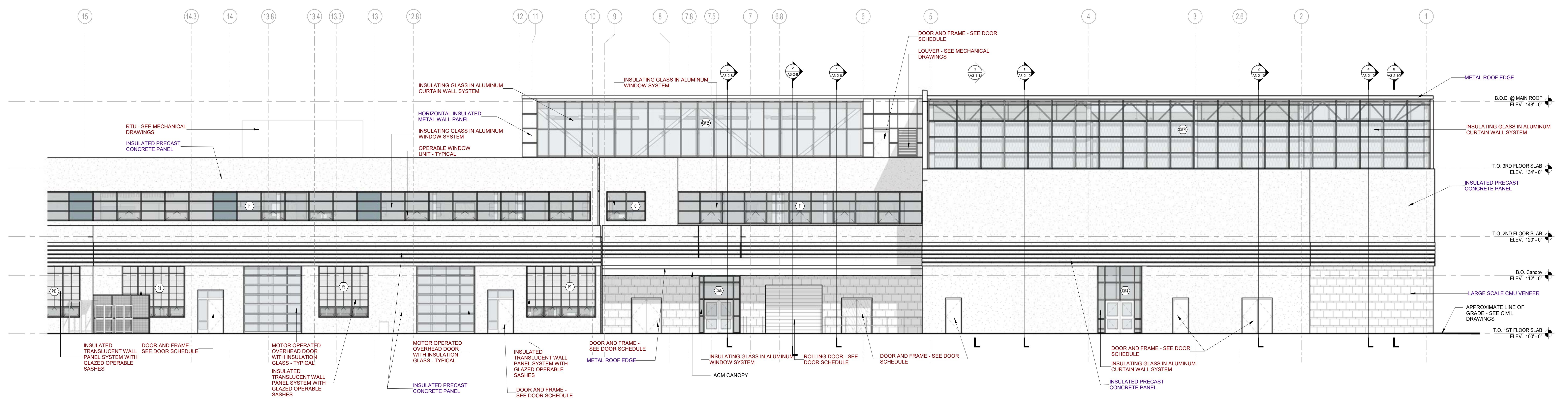
**BUILDING ELEVATION GENERAL NOTES:**  
1. AT ALL INSIDE, MASONRY VENEER CORNERS, PROVIDE CONTROL JOINT (C.J.), INCLUDING AT CHANGES IN MASONRY VENEER MATERIALS.  
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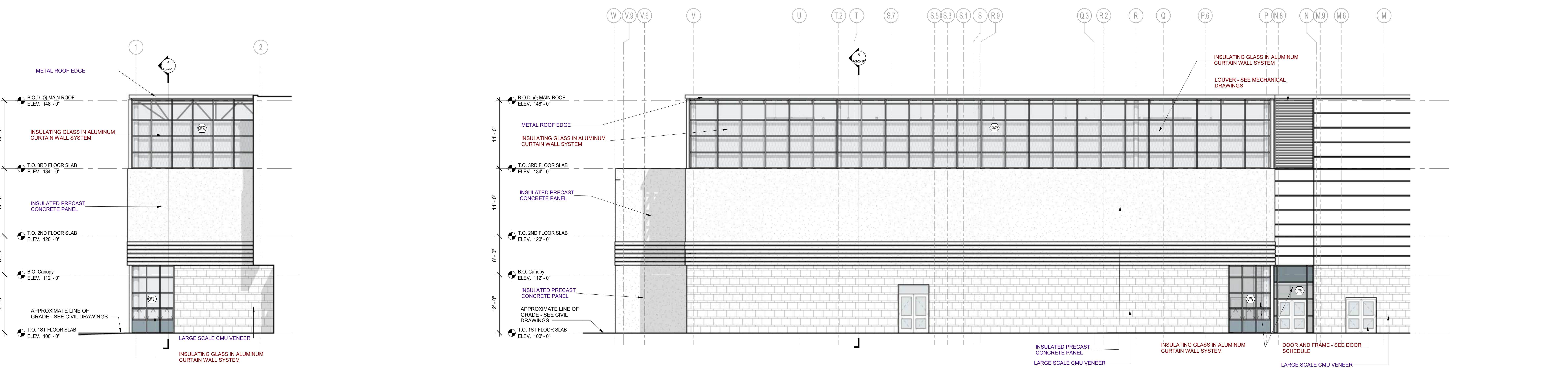
4 SOUTH BUILDING ELEVATION  
1/8" = 1'-0"

5 NORTH BUILDING ELEVATION  
1/8" = 1'-0"

6 SOUTH BUILDING ELEVATION  
1/8" = 1'-0"



3 EAST BUILDING ELEVATION  
1/8" = 1'-0"

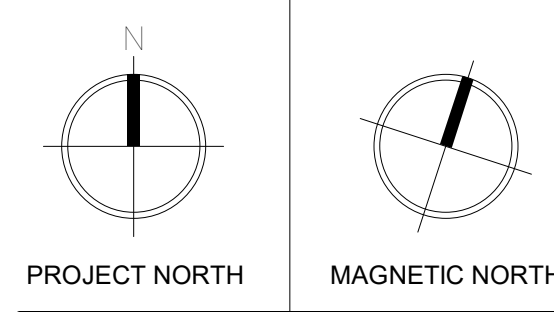
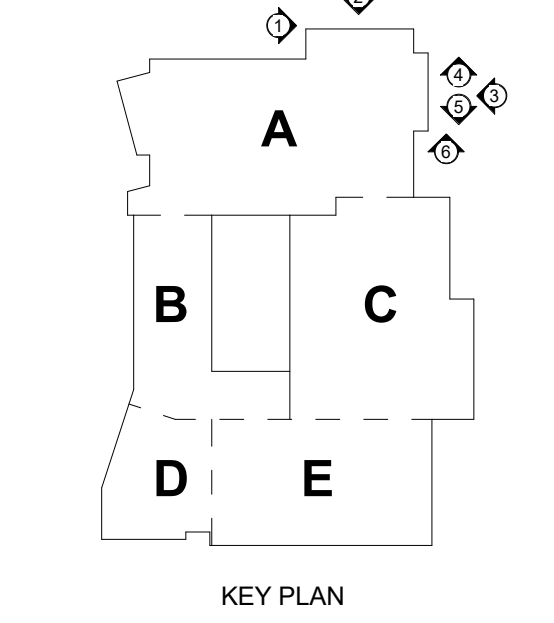


1 WEST BUILDING ELEVATION  
1/8" = 1'-0"

2 NORTH BUILDING ELEVATION  
1/8" = 1'-0"

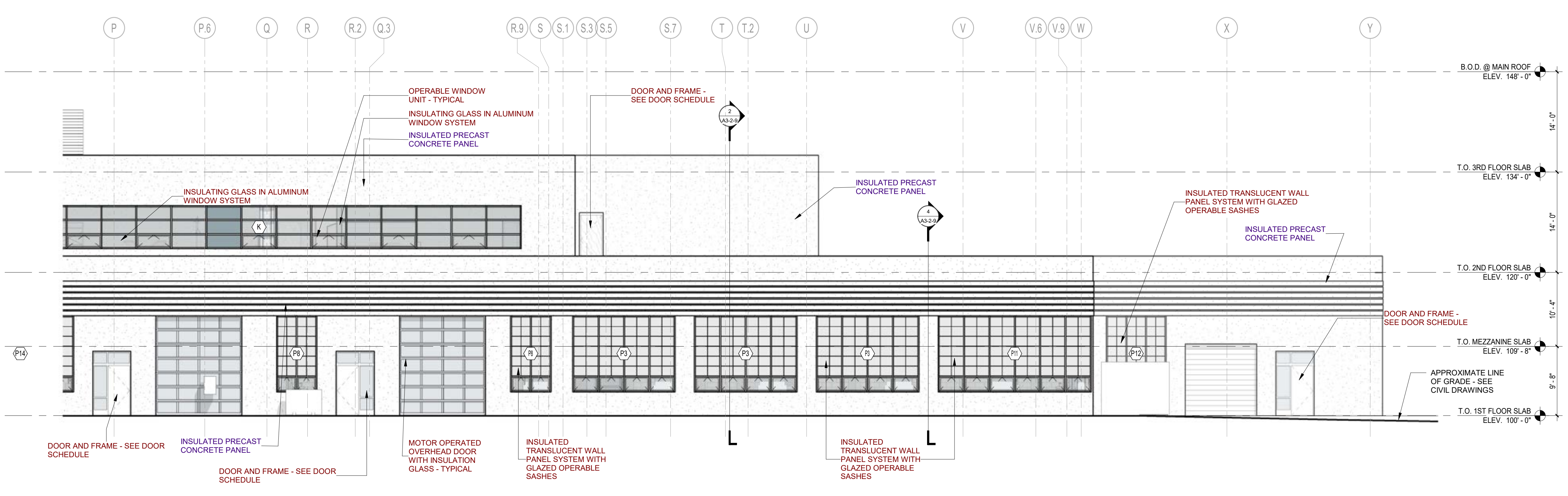
DESIGN DEVELOPMENT COST ESTIMATE SET

4/1/2024

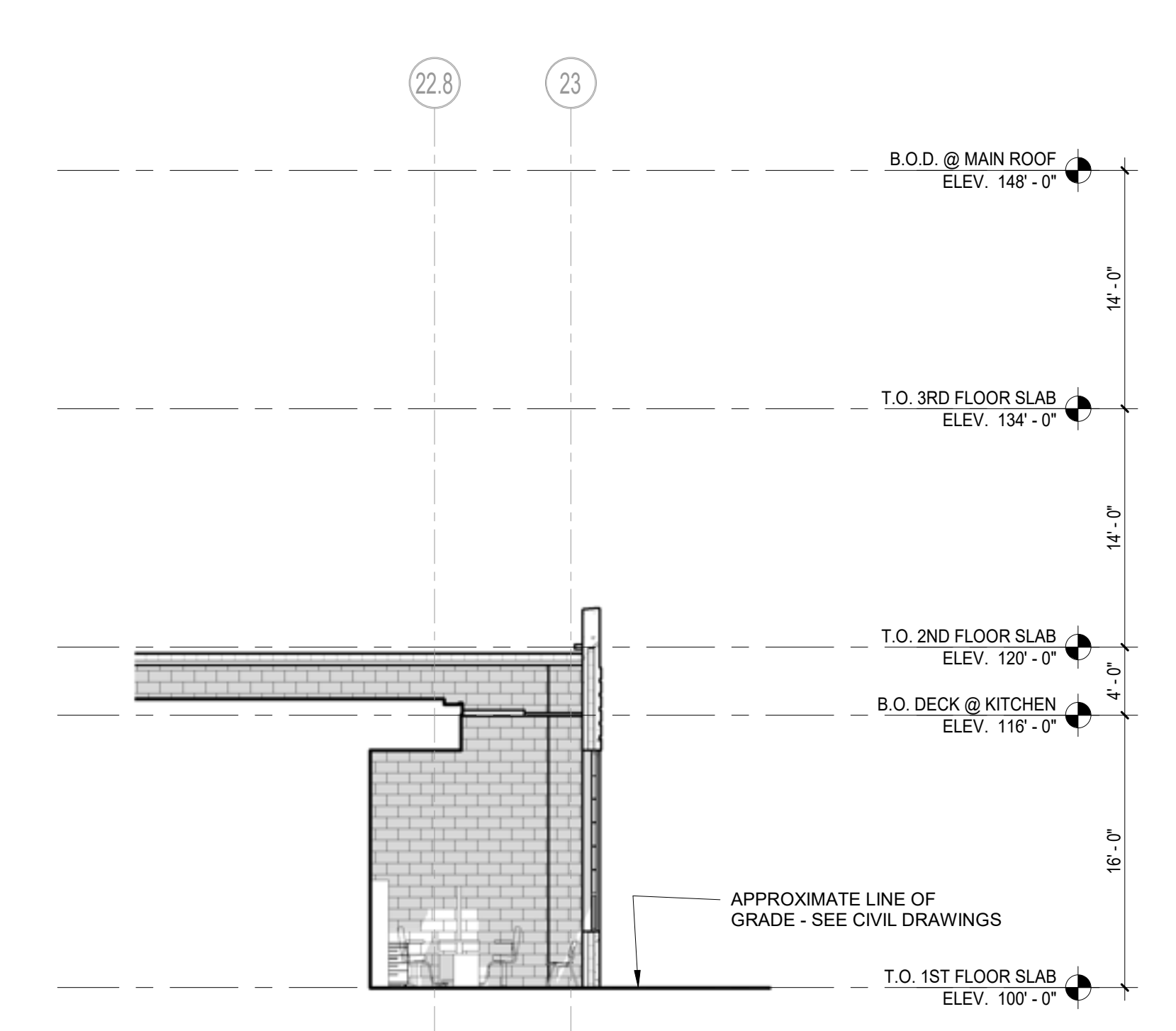


BUILDING ELEVATIONS

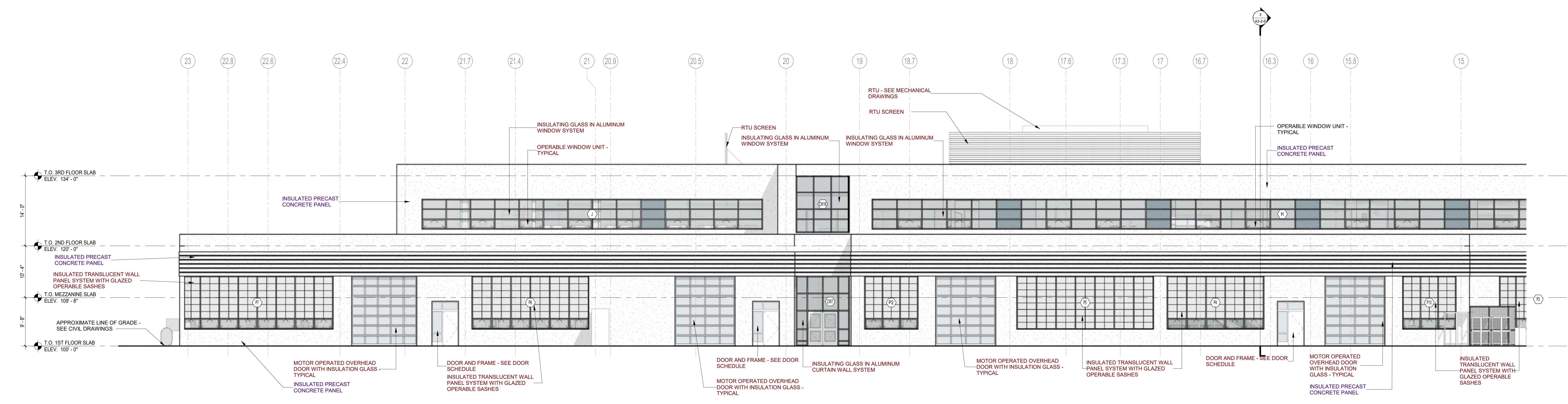
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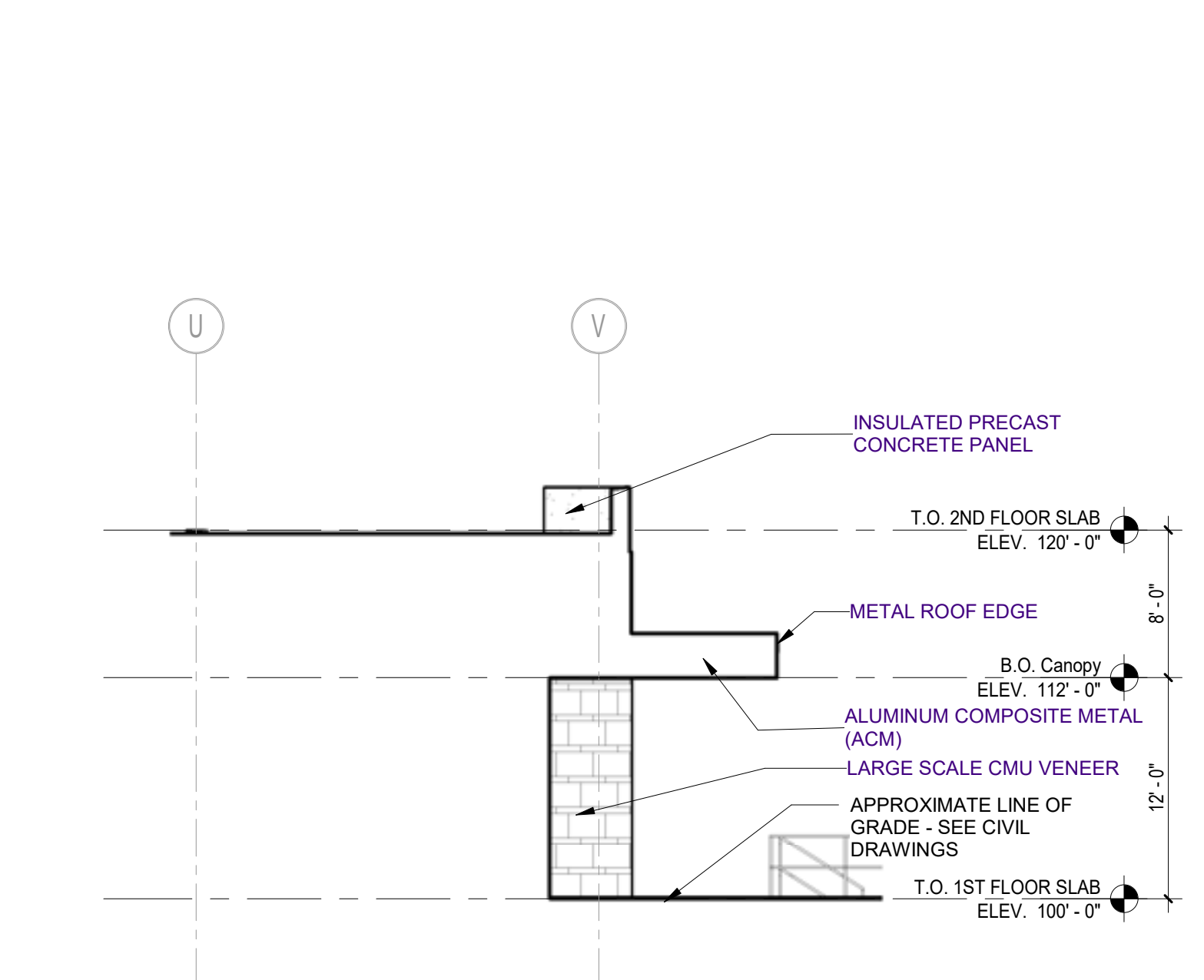
**5 SOUTH BUILDING ELEVATION**  
 1/8" = 1'-0"



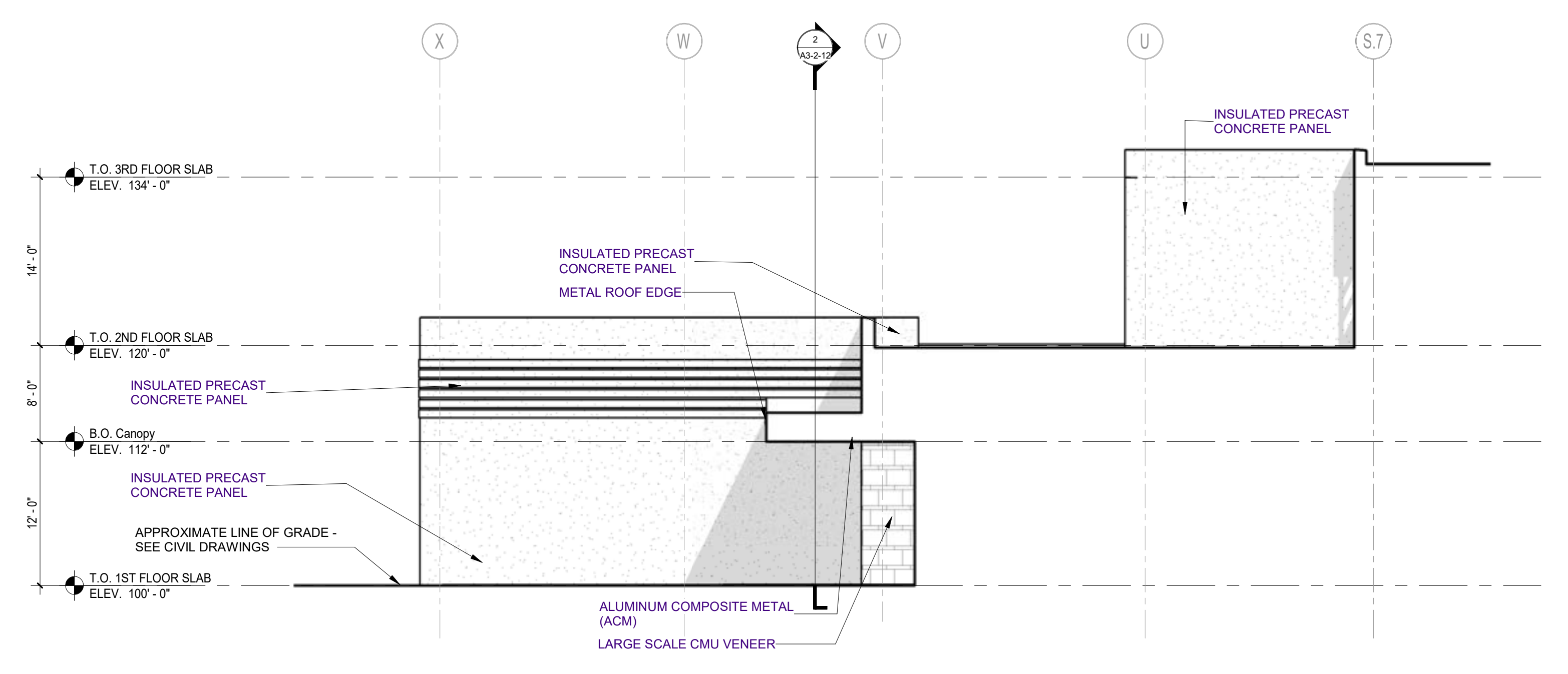
**6 WEST BUILDING ELEVATION**  
 1/8" = 1'-0"



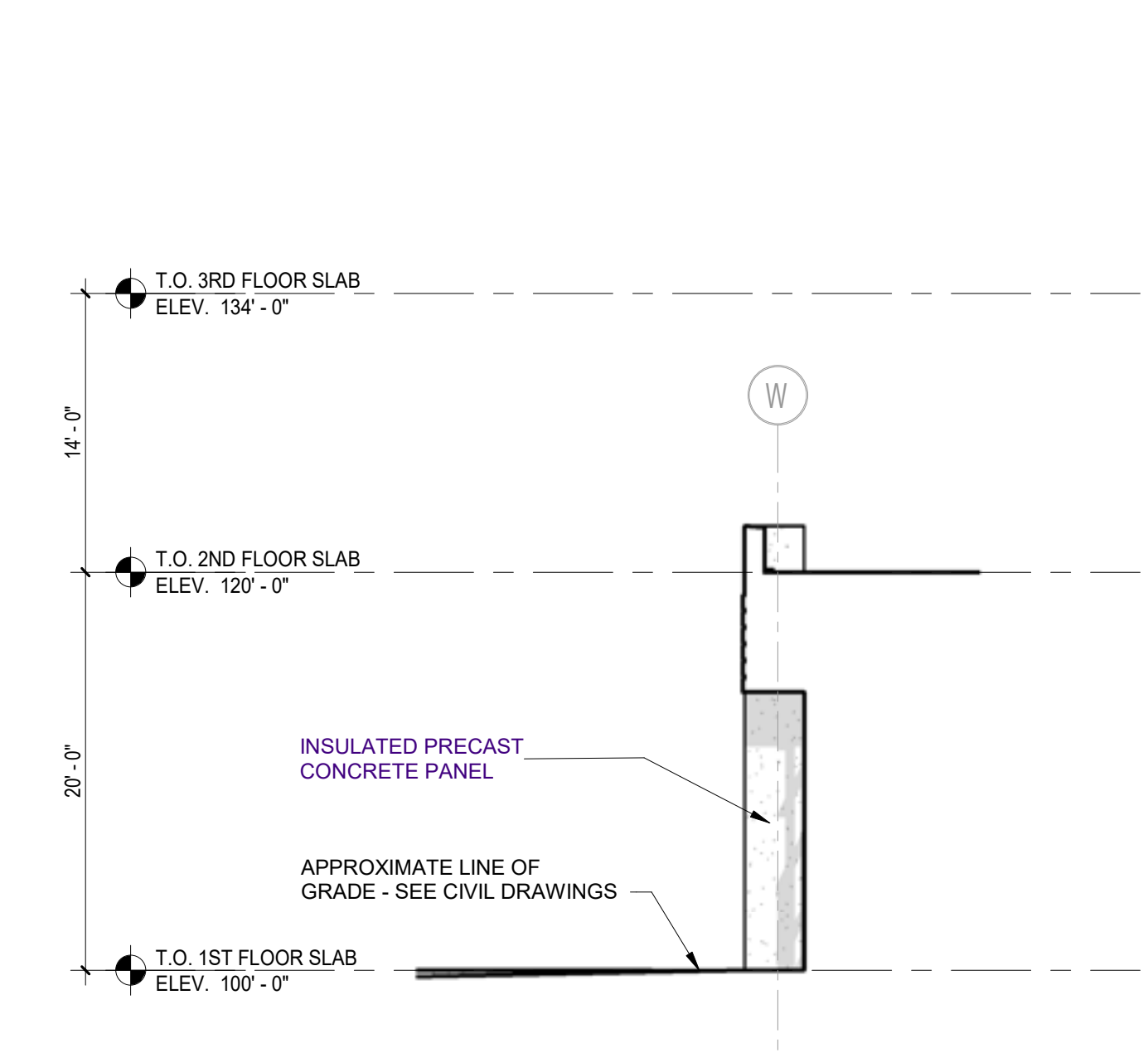
**4 EAST BUILDING ELEVATION**  
 1/8" = 1'-0"



**1 SOUTH BUILDING ELEVATION**  
 1/8" = 1'-0"



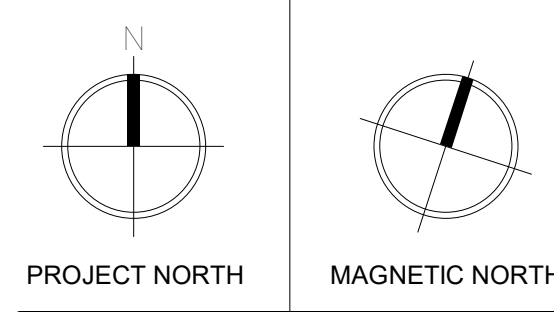
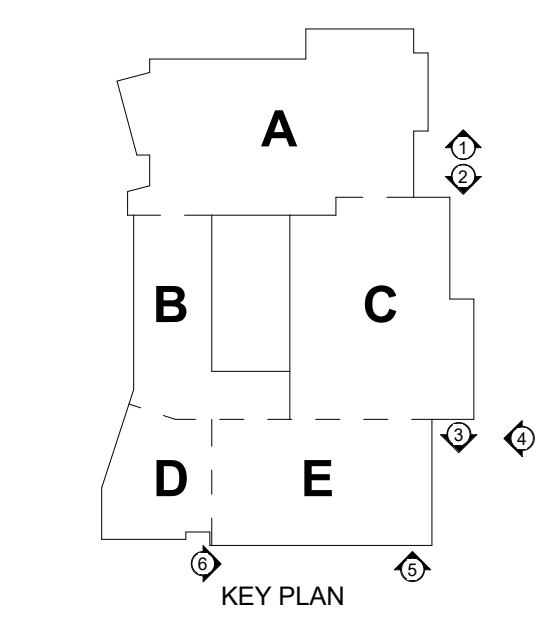
**2 NORTH BUILDING ELEVATION**  
 1/8" = 1'-0"



**3 NORTH BUILDING ELEVATION**  
 1/8" = 1'-0"

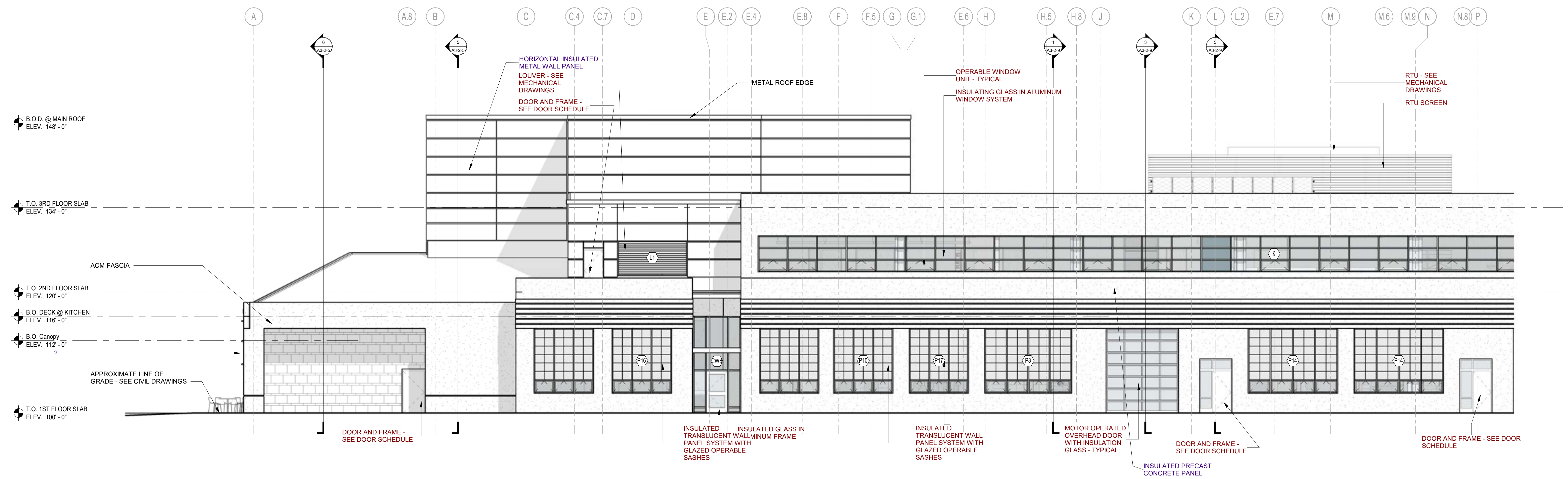
DESIGN DEVELOPMENT COST ESTIMATE SET

4/1/2024

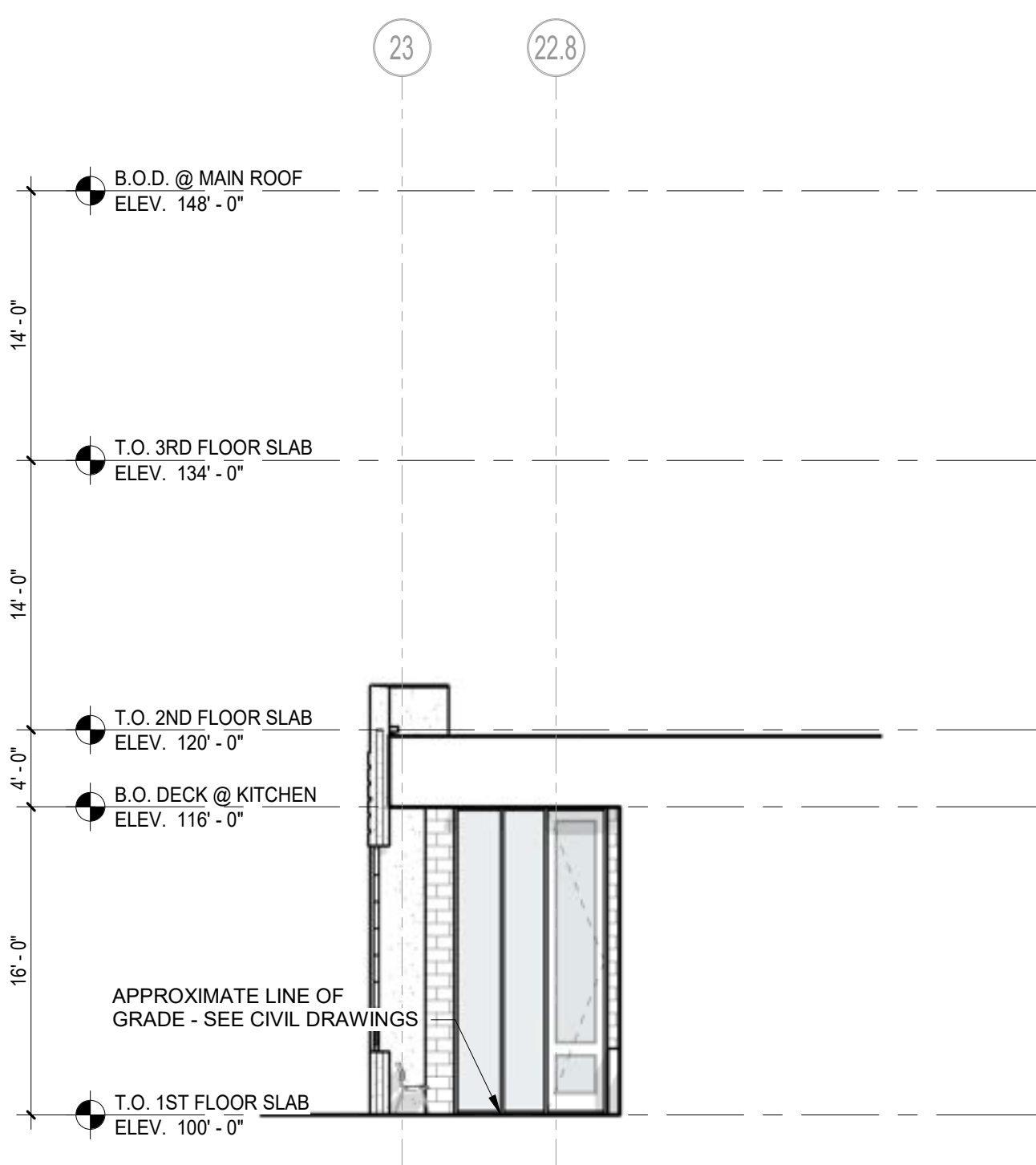


**BUILDING ELEVATIONS**

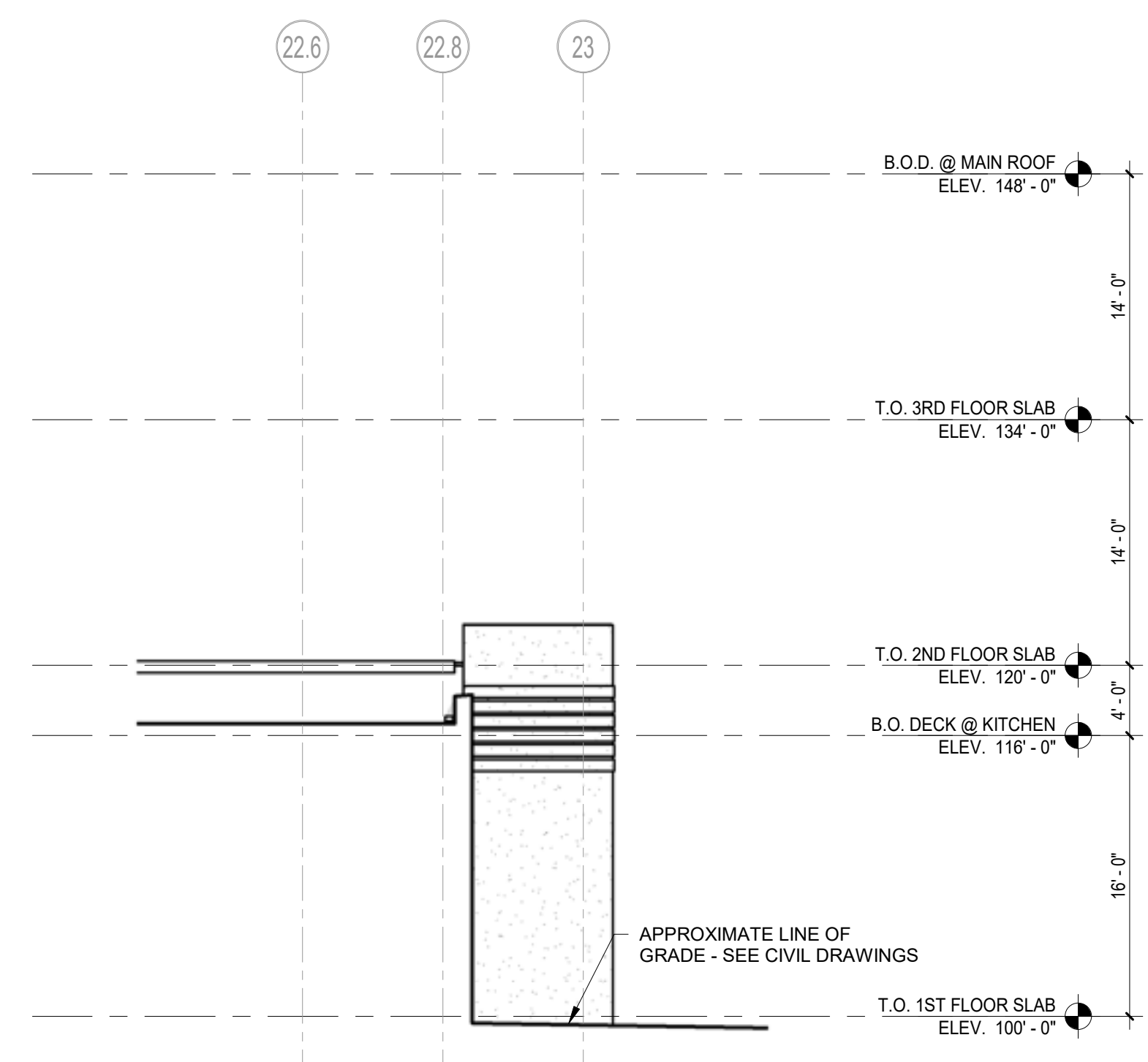
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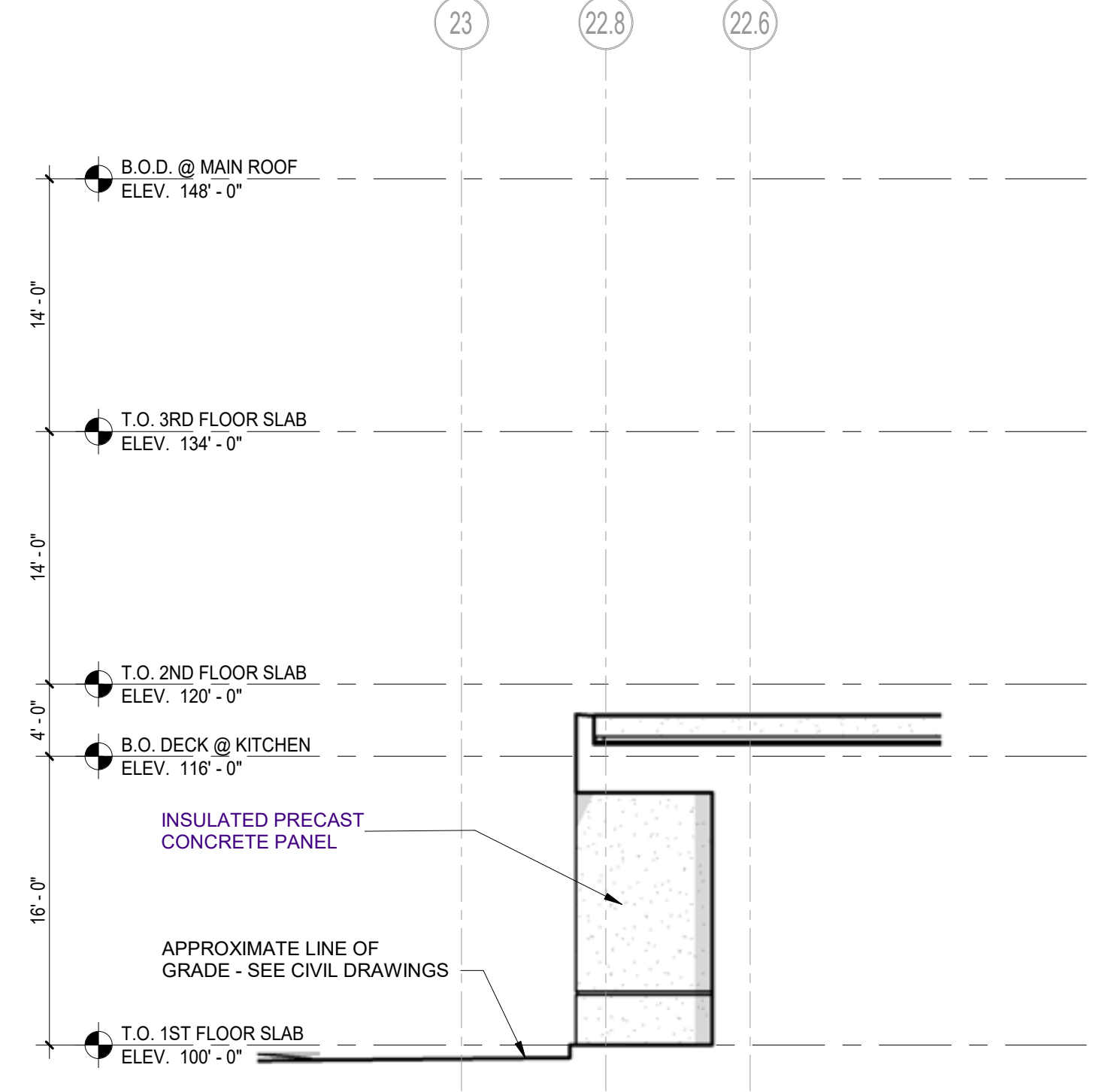
**4 SOUTH BUILDING ELEVATION**  
 1/8" = 1'-0"



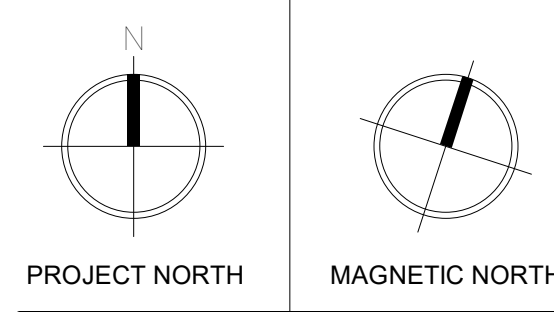
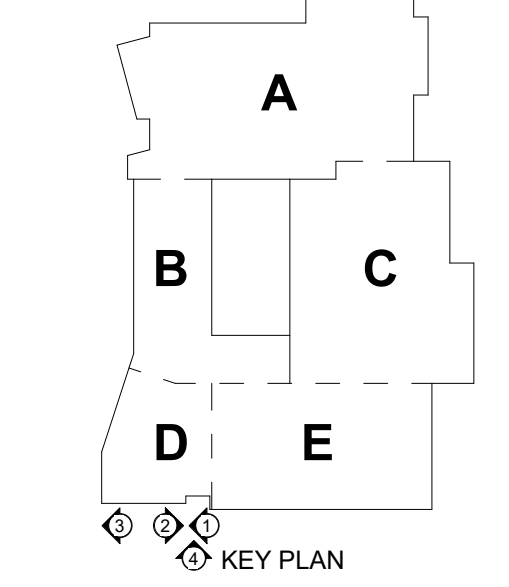
**1 EAST BUILDING ELEVATION**  
 1/8" = 1'-0"



**2 WEST BUILDING ELEVATION**  
 1/8" = 1'-0"

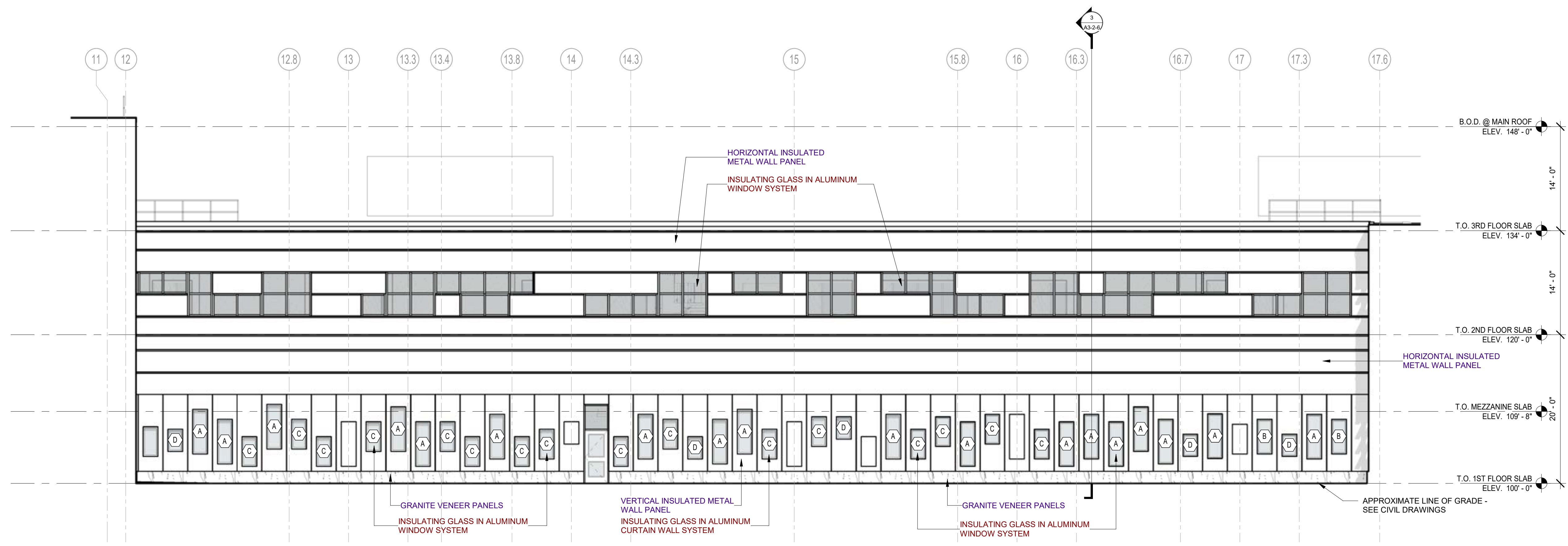


**3 EAST BUILDING ELEVATION**  
 1/8" = 1'-0"

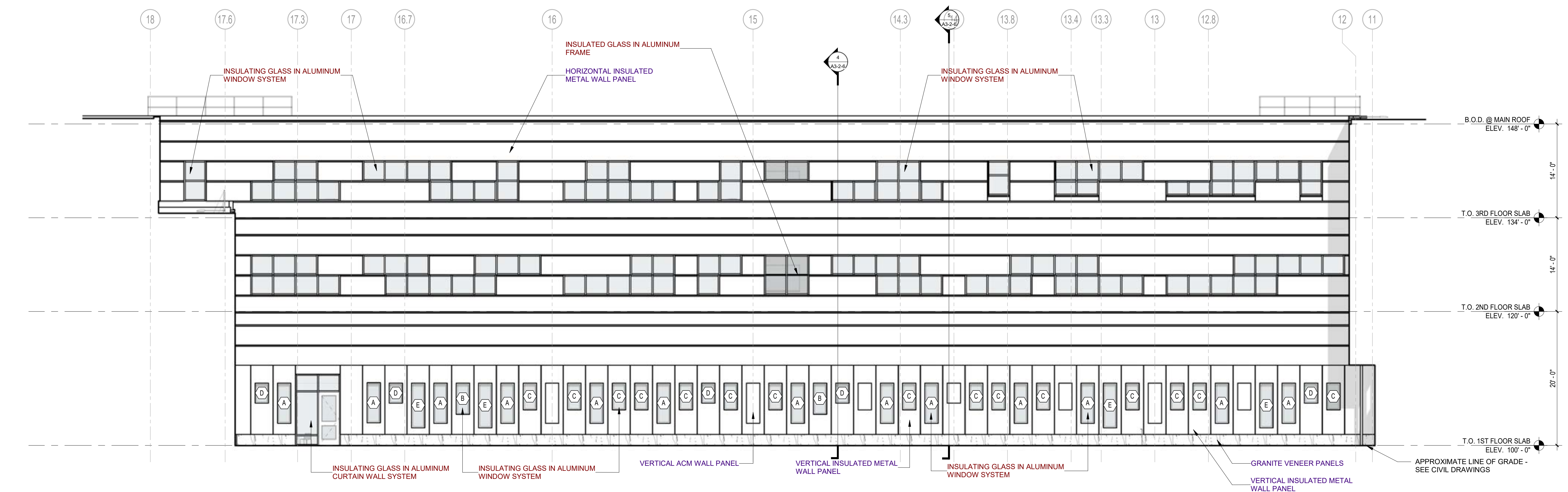




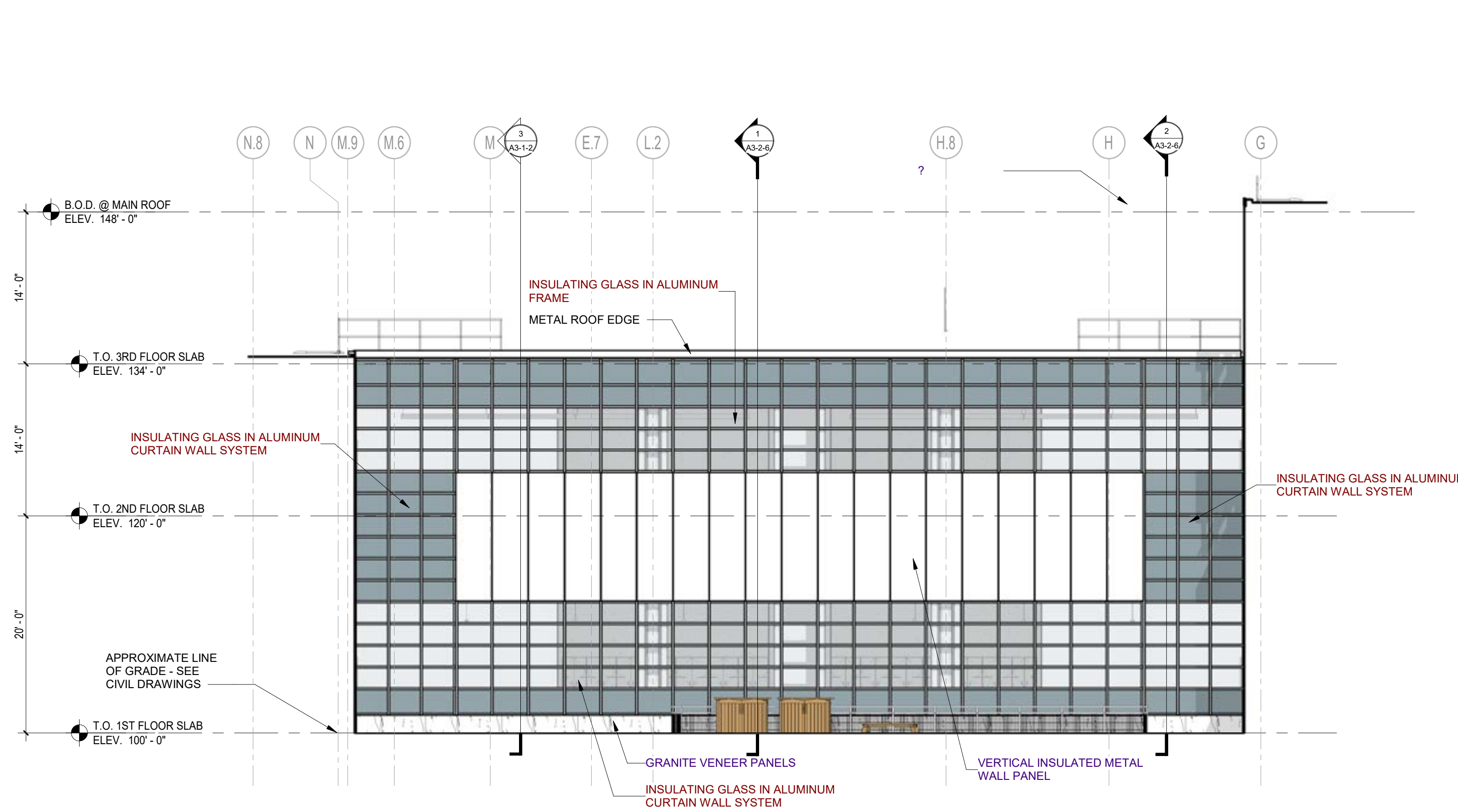
**BUILDING ELEVATION GENERAL NOTES:**  
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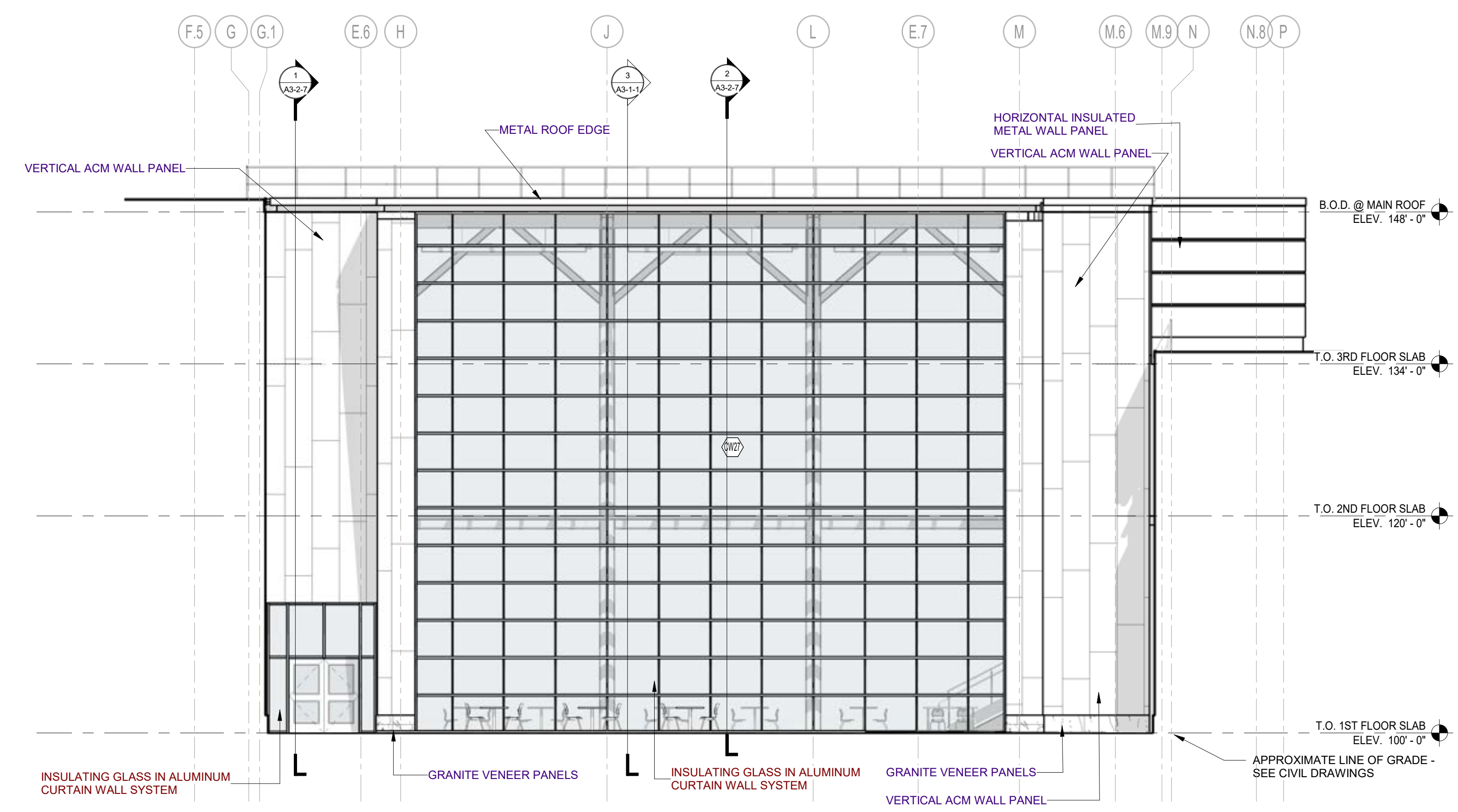
4 WEST BUILDING ELEVATION  
 1/8" = 1'-0"



2 EAST BUILDING ELEVATION  
 1/8" = 1'-0"



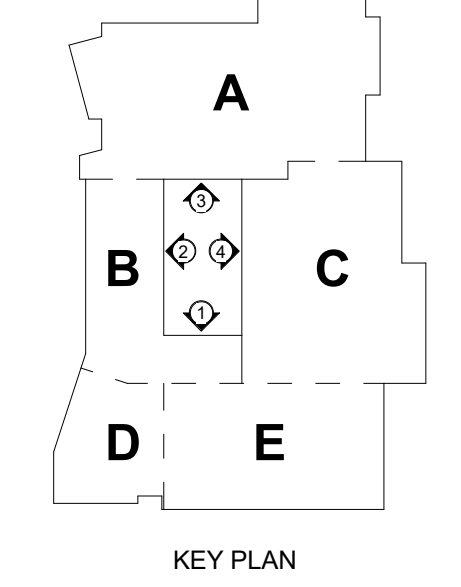
1 NORTH BUILDING ELEVATION  
 1/8" = 1'-0"



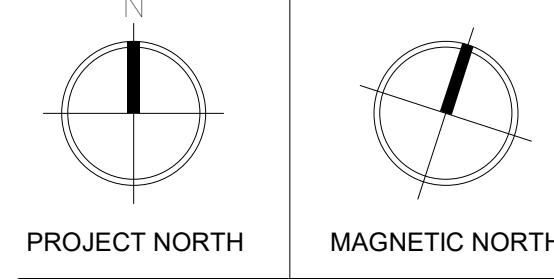
3 SOUTH BUILDING ELEVATION  
 1/8" = 1'-0"

DESIGN DEVELOPMENT COST ESTIMATE SET

4/1/2024



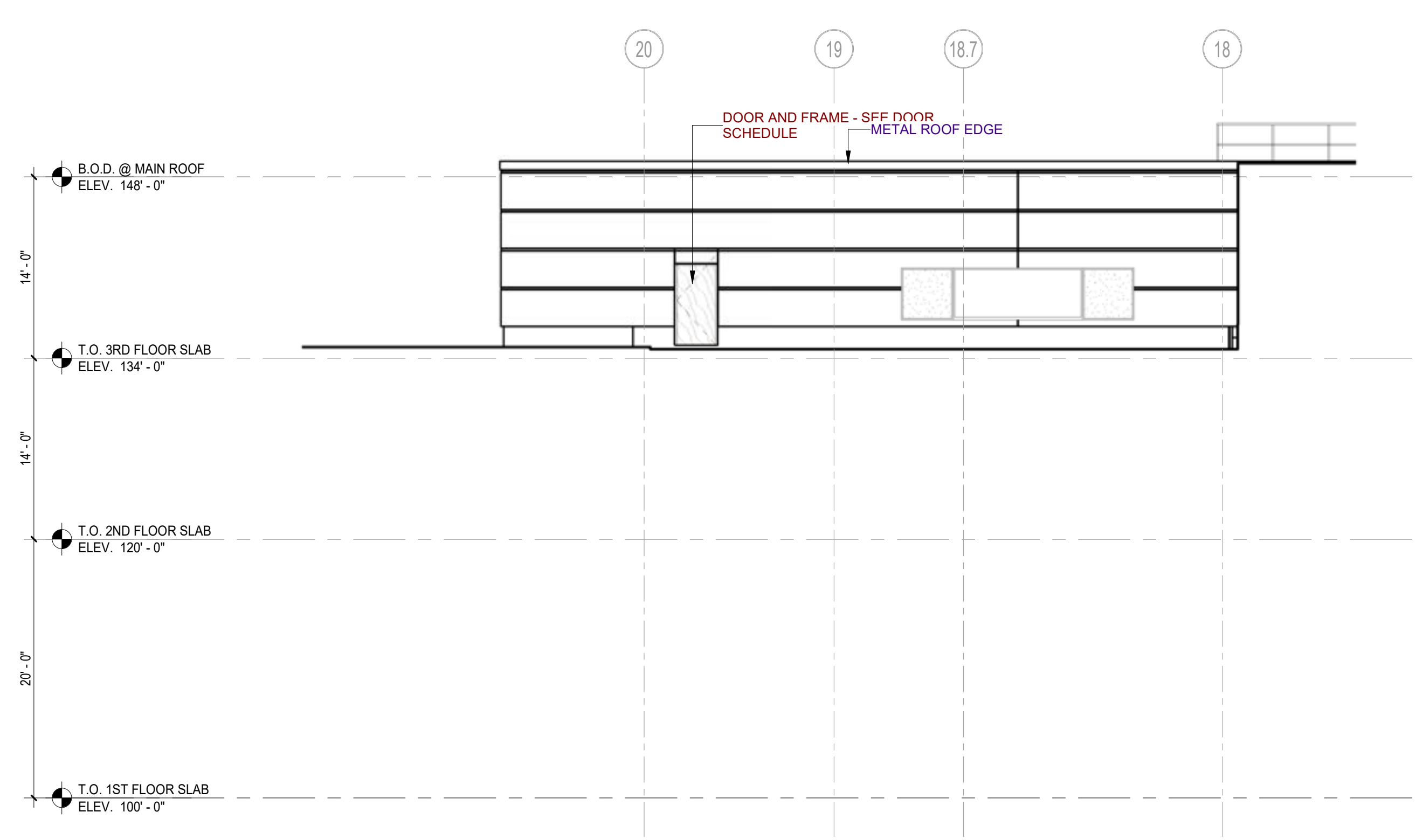
KEY PLAN



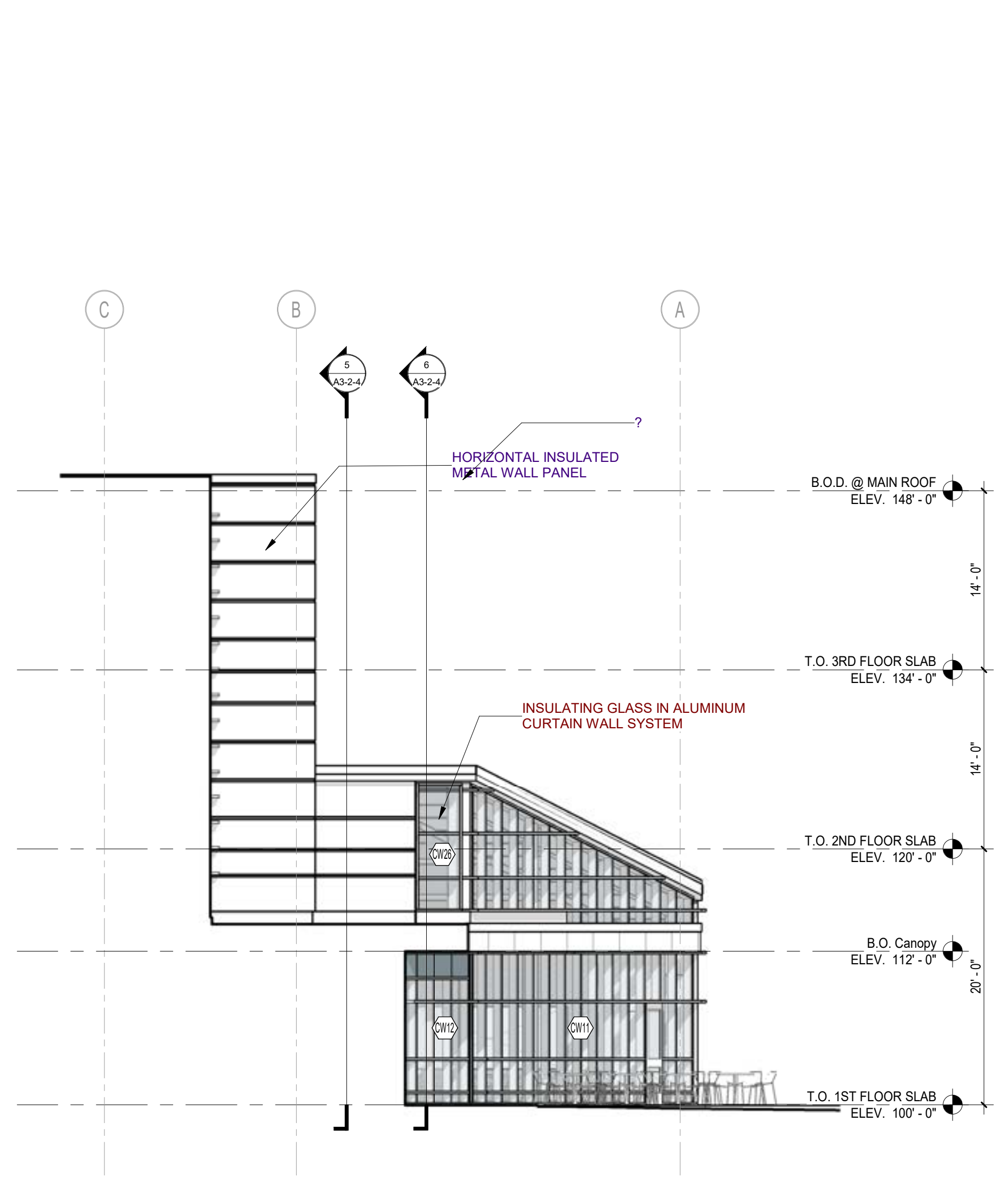
PROJECT NORTH MAGNETIC NORTH

**BUILDING ELEVATIONS**

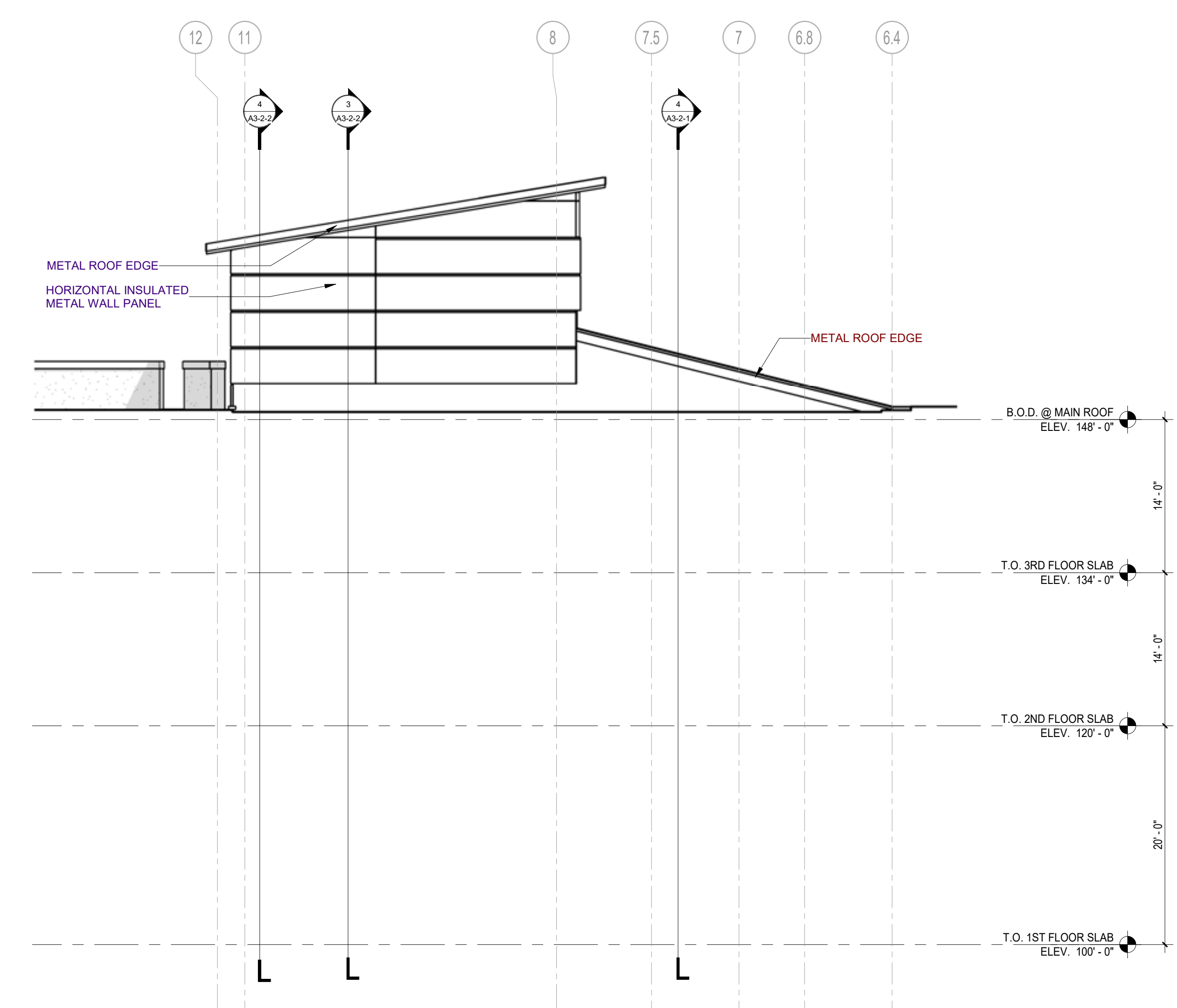
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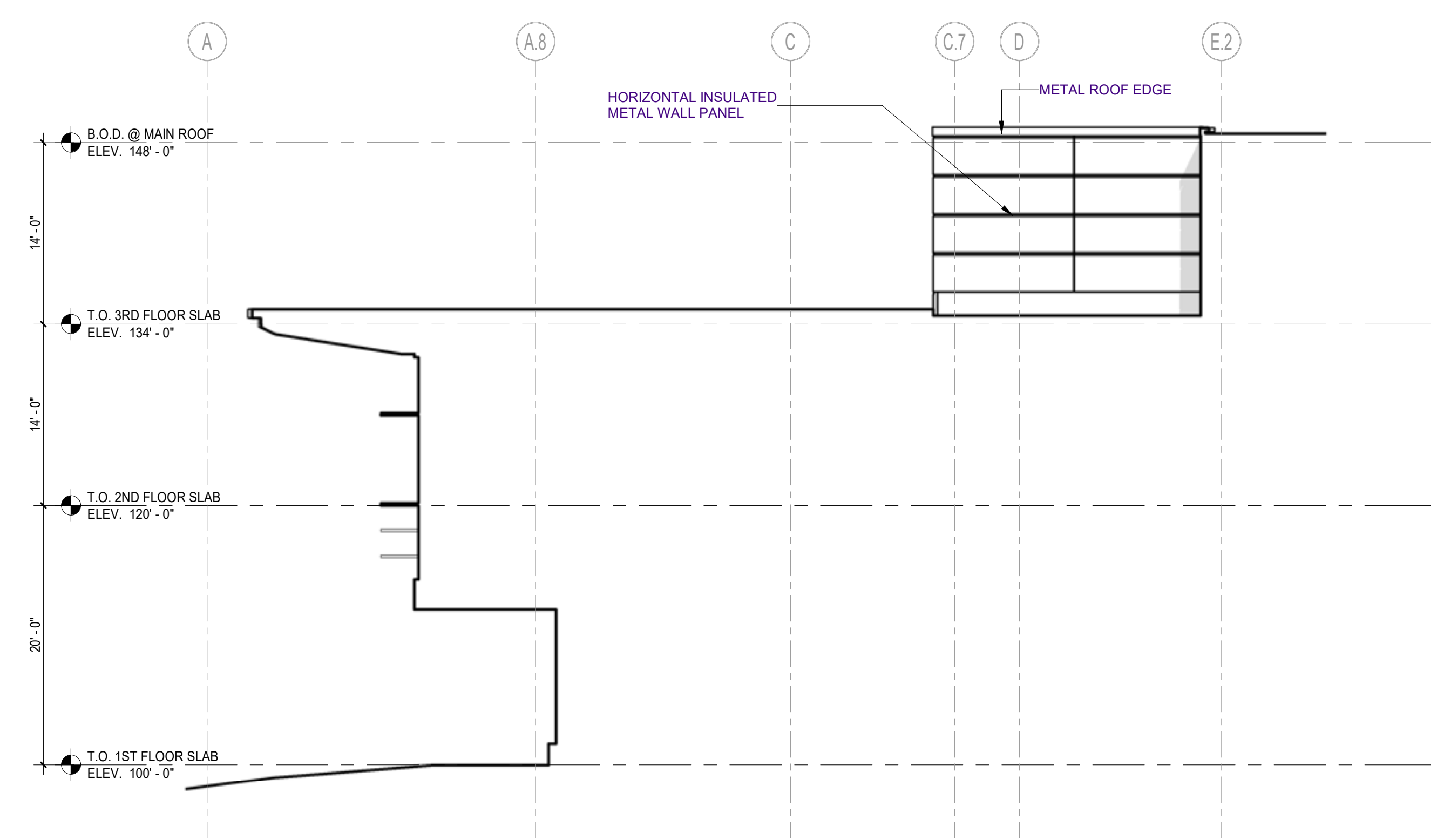
**4 EAST BUILDING ELEVATION**  
 1/8" = 1'-0"



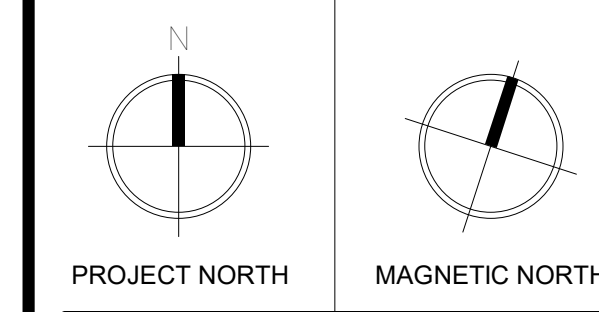
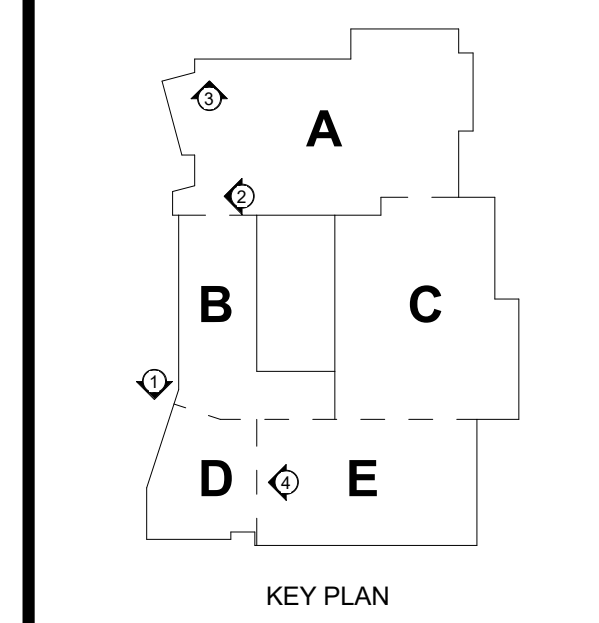
**1 NORTH BUILDING ELEVATION**  
 1/8" = 1'-0"

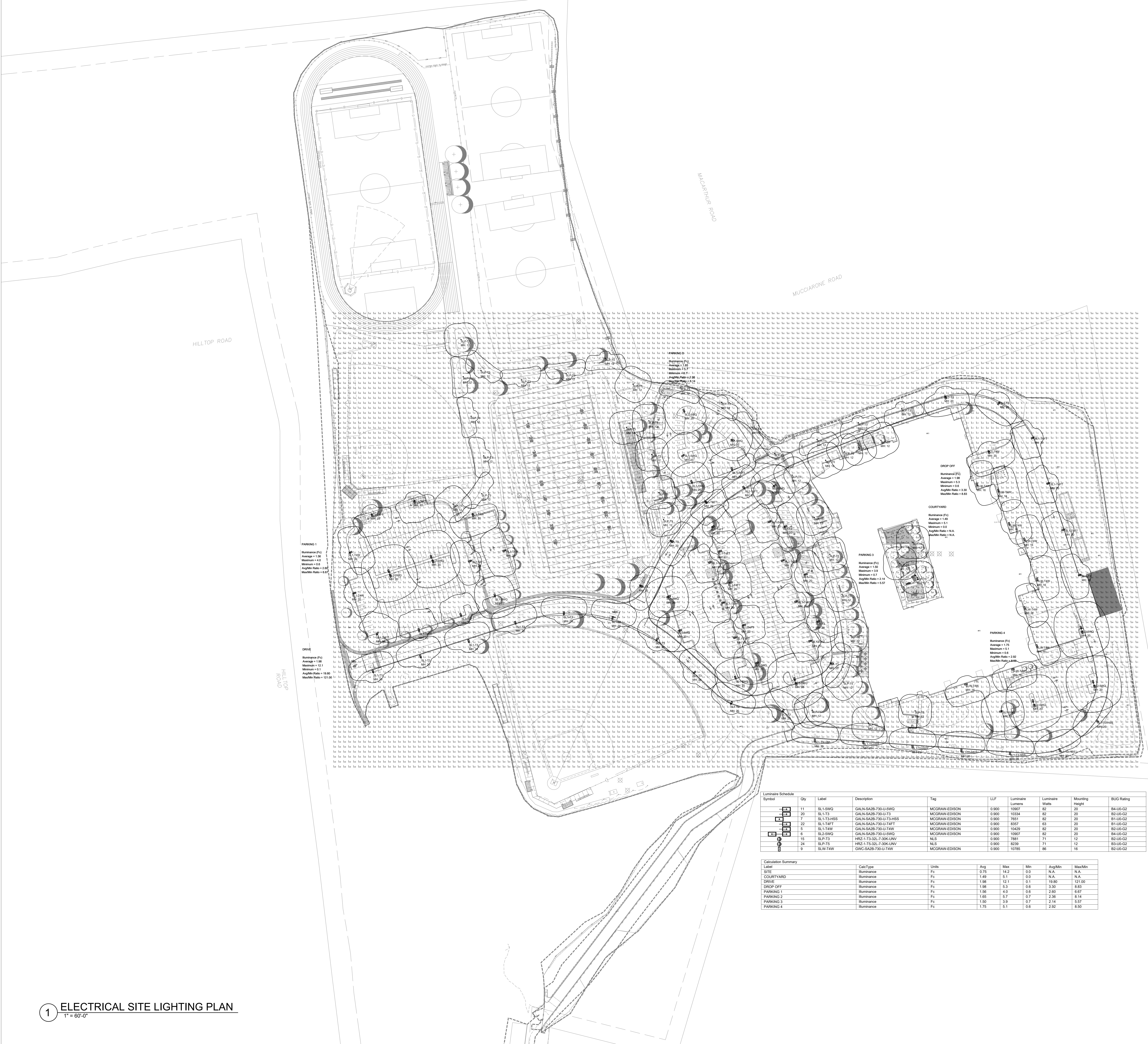


**2 EAST BUILDING ELEVATION**  
 1/8" = 1'-0"



**3 SOUTH BUILDING ELEVATION**  
 1/8" = 1'-0"





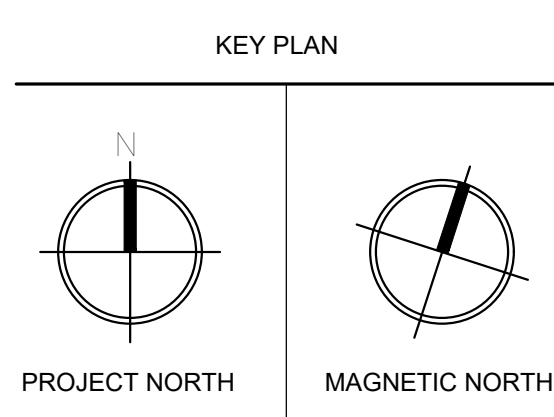
**Tri-County Regional Vocational Technical High School**

147 Pond St, Franklin, MA 02038

**GRIFFITH & VARY, INC.**  
 Consulting Engineers  
 17 Kearsota Road, Waltham, MA 02457  
 Office: 978.256.0206  
 www.griffithvary.com

MSBA DESIGN DEVELOPMENT SUBMISSION

05/01/2024



**ELECTRICAL SITE LIGHTING PLAN**

Scale: 1"=60'-0"  
 Project: 22001.00  
 Author: RCB  
 Date: 05/01/2024  
**ES-0-1A**

**1 ELECTRICAL SITE LIGHTING PLAN**  
 1" = 60'-0"

**Luminaire Schedule**

Symbol	Qty	Label	Description	Tng	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height	BUG Rating
[Symbol]	11	SL-1-9W	GALN-SAB-730-U-9W	MCGRRAW-EDISON	0.900	10607	82	20	B4-U0-G2
[Symbol]	20	SL-1-73	GALN-SAB-730-U-73	MCGRRAW-EDISON	0.900	10334	82	20	B2-U0-G2
[Symbol]	7	SL-1-13H85	GALN-SAB-730-U-13H85	MCGRRAW-EDISON	0.900	7951	82	20	B1-U0-G2
[Symbol]	22	SL-1-74FT	GALN-SAB-730-U-74FT	MCGRRAW-EDISON	0.900	8357	63	20	B1-U0-G2
[Symbol]	9	SL-1-74W	GALN-SAB-730-U-74W	MCGRRAW-EDISON	0.900	10429	82	20	B2-U0-G2
[Symbol]	6	SL-2-9W	GALN-SAB-730-U-9W	MCGRRAW-EDISON	0.900	10607	82	60	B4-U0-G2
[Symbol]	15	SLP-73	HRZ-1-73-331-7-30K-LINV	NLS	0.900	7881	71	12	B2-U0-G2
[Symbol]	24	SLP-75	HRZ-1-75-331-7-30K-LINV	NLS	0.900	8259	71	12	B3-U0-G2
[Symbol]	9	SLW-74W	GW-C-SAB-730-U-74W	MCGRRAW-EDISON	0.900	10785	86	16	B2-U0-G2

**Calculation Summary**

Label	Calc Type	Units	Avg	Max	Min	AvgMin	MaxMin
SITE	Illuminance	Fc	0.75	14.2	0.0	N/A	N/A
COURTYARD	Illuminance	Fc	1.48	5.1	0.0	N/A	N/A
DRIVE	Illuminance	Fc	1.88	12.1	0.1	18.60	121.00
DROP OFF	Illuminance	Fc	1.88	5.3	0.6	3.30	6.83
PARKING 1	Illuminance	Fc	1.66	4.0	0.6	2.60	6.07
PARKING 2	Illuminance	Fc	1.65	5.7	0.7	2.36	6.14
PARKING 3	Illuminance	Fc	1.50	3.9	0.7	2.14	5.67
PARKING 4	Illuminance	Fc	1.75	5.1	0.6	2.92	6.50

**PARKING 1**  
 Illuminance (Fc)  
 Average = 1.66  
 Maximum = 4.0  
 Minimum = 0.6  
 AvgMin Ratio = 2.62  
 MaxMin Ratio = 6.67

**DRIVE**  
 Illuminance (Fc)  
 Average = 1.88  
 Maximum = 12.1  
 Minimum = 0.1  
 AvgMin Ratio = 18.60  
 MaxMin Ratio = 121.00

**DROP OFF**  
 Illuminance (Fc)  
 Average = 1.88  
 Maximum = 5.3  
 Minimum = 0.6  
 AvgMin Ratio = 3.30  
 MaxMin Ratio = 6.83

**COURTYARD**  
 Illuminance (Fc)  
 Average = 1.48  
 Maximum = 5.1  
 Minimum = 0.0  
 AvgMin Ratio = N/A  
 MaxMin Ratio = N/A

**PARKING 3**  
 Illuminance (Fc)  
 Average = 1.65  
 Maximum = 5.7  
 Minimum = 0.7  
 AvgMin Ratio = 2.36  
 MaxMin Ratio = 6.14

**PARKING 4**  
 Illuminance (Fc)  
 Average = 1.75  
 Maximum = 5.1  
 Minimum = 0.6  
 AvgMin Ratio = 2.92  
 MaxMin Ratio = 6.50



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Project	SLW
Prepared by	Date



**McGraw-Edison**  
**GWC Galleon Wall**  
 Wall Mount Luminaire

- Product Features**
- Choice of thirteen high efficiency, patented Accu-ED Optics
  - Downward and inverted wall mounting configurations
  - Eight lumen packages from 2,125 up to 17,056
  - Efficacies up to 156 lumens per watt

- Product Certifications**
- DGC
  - IESNA
  - UL
  - ENEC
  - CE
  - PSE

- Interactive Menu**
- Ordering Information page 1
  - Product Specifications page 2
  - Optical Configurations page 3
  - Energy Performance Data page 4
  - Control Options page 5

- Quick Facts**
- Choice of thirteen high efficiency, patented Accu-ED Optics
  - Downward and inverted wall mounting configurations
  - Efficacies up to 156 lumens per watt

**Dimensional Details**

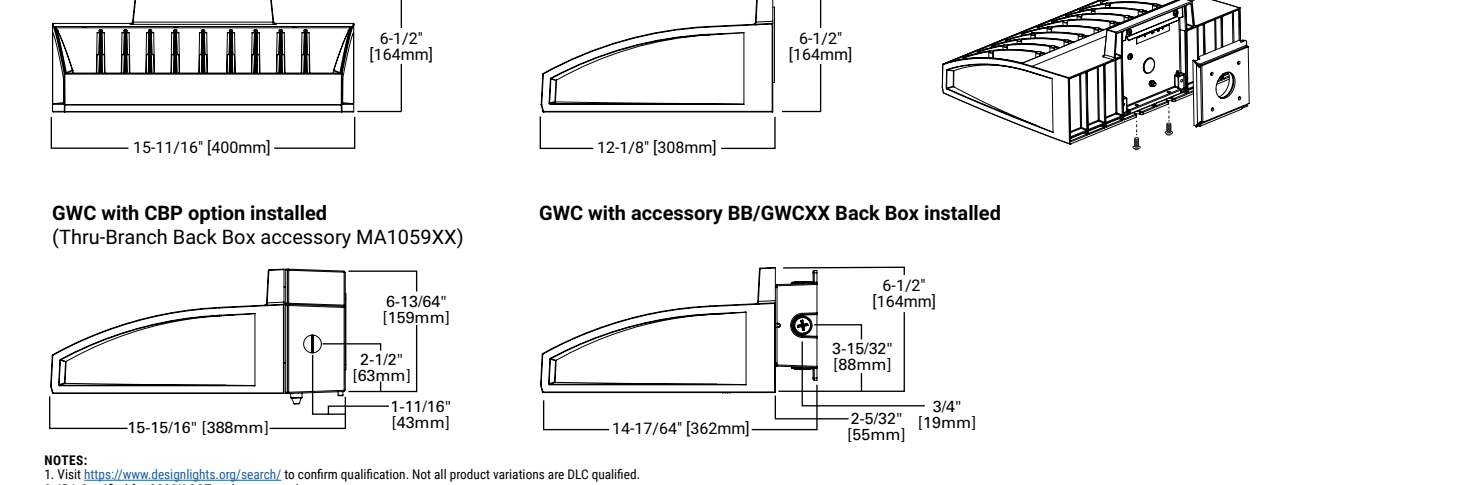


FIGURE 0623 page 1  
 February 23, 2024 4:17 PM

**McGraw-Edison GWC Galleon Wall**

**Ordering Information**

Product Family	Light Output	Color Temperature	Finish	Mounting	Distribution	Notes
21000K-2700K	21000K-2700K	21000K-2700K	21000K-2700K	21000K-2700K	21000K-2700K	21000K-2700K

Parting Detail (2700K-3000K)	Ordering and Options (3000K-5000K)	Accessories (5000K-6500K)
Parting Detail (2700K-3000K)	Ordering and Options (3000K-5000K)	Accessories (5000K-6500K)

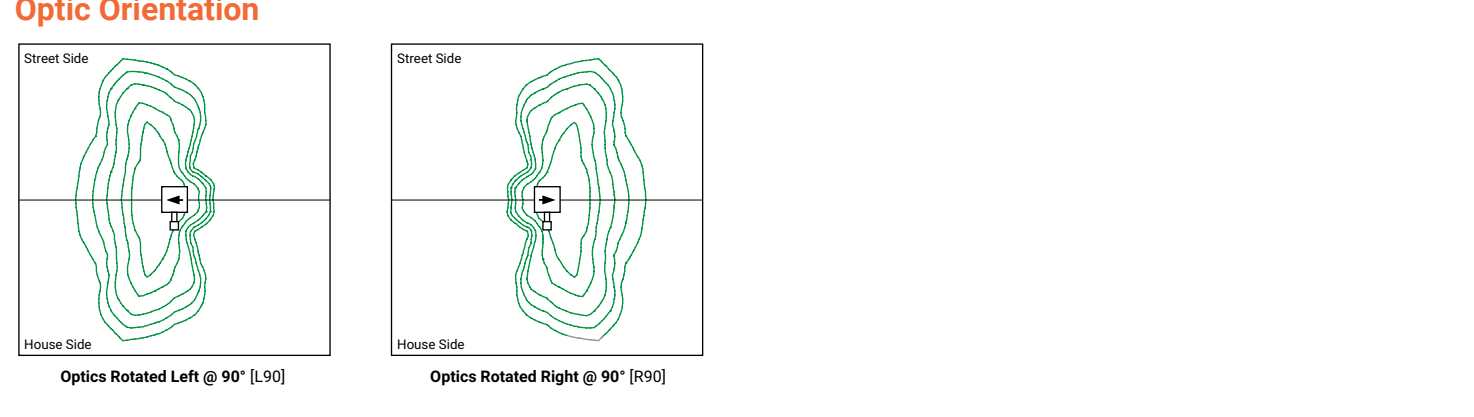
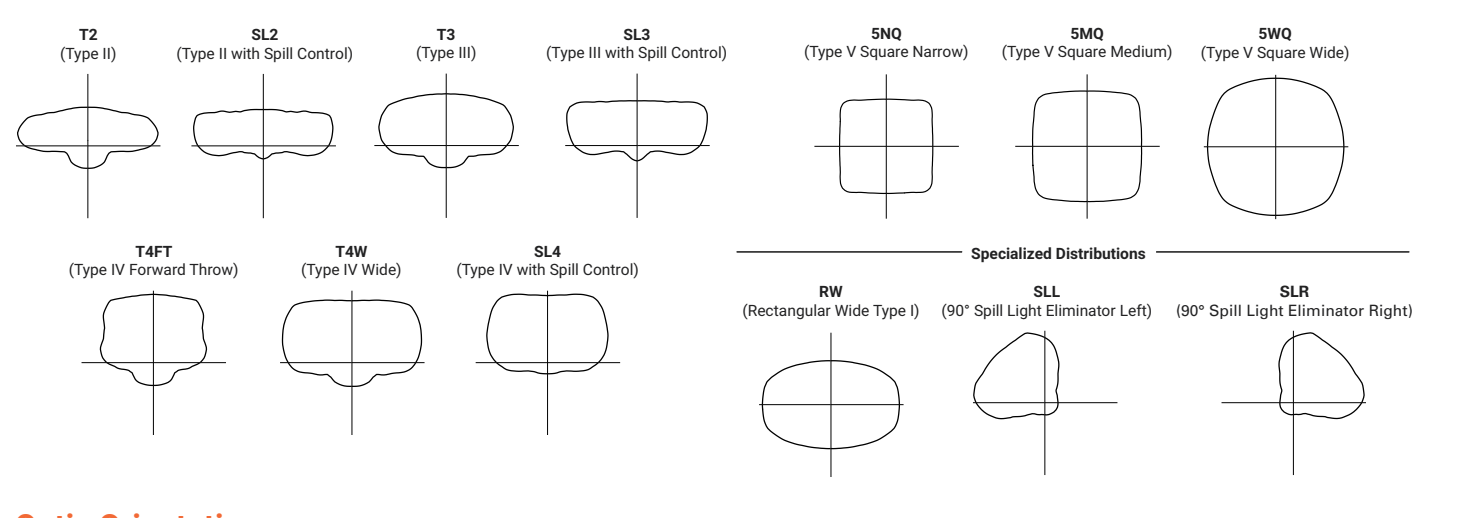
- Notes**
1. See McGraw-Edison website for complete product specifications and accessories.
  2. See McGraw-Edison website for complete product specifications and accessories.
  3. See McGraw-Edison website for complete product specifications and accessories.
  4. See McGraw-Edison website for complete product specifications and accessories.

- Product Specifications**
- Construction**
    - Powder coated aluminum housing
    - Die cast aluminum housing
    - IP65 rated housing
    - 150 degree beam
  - Optics**
    - Patented, high efficiency injection molded Accu-ED Optics technology
    - 13 optical distributions
    - DALI dimmable (DALI CCT and warmer only)
  - Mounting**
    - Castable zinc plated rigid steel mounting attachment
    - "No-drill" LEDIC® mechanism for easy installation

FIGURE 0623 page 2  
 February 23, 2024 4:17 PM

**McGraw-Edison GWC Galleon Wall**

**Optical Distributions**



**Energy and Performance Data**

Temperature	Lumen Output	Efficiency
10°C	1.01	1.02
25°C	1.00	1.00
40°C	0.99	0.97

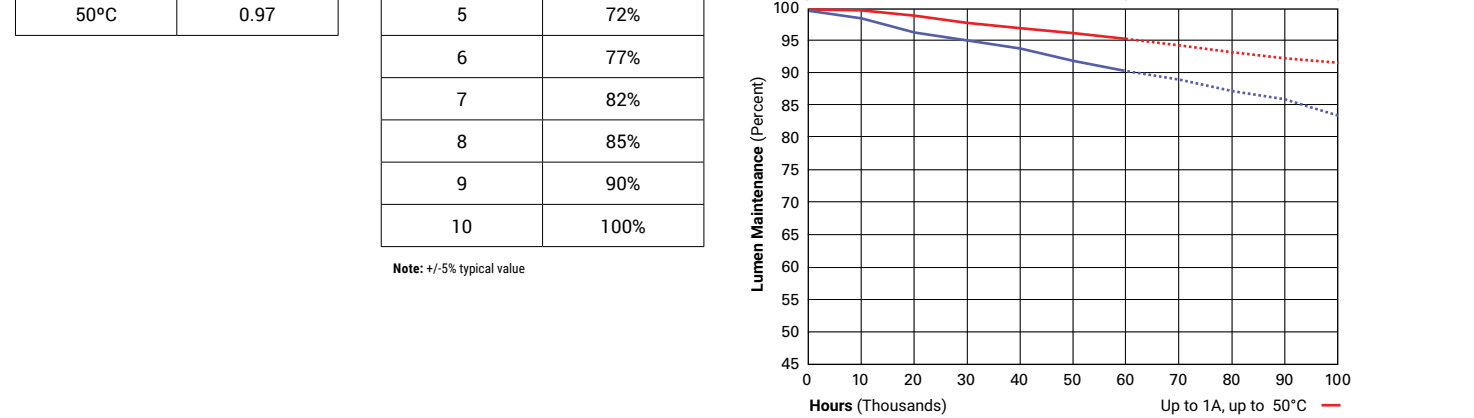


FIGURE 0623 page 3  
 February 23, 2024 4:17 PM

**McGraw-Edison GWC Galleon Wall**

**Energy and Performance Data**

Number of Light Sources	1	2	3	4	5	6	7	8	9	10	11	12	13
Drive Current	600mA	800mA	1000mA	1.2A	1400mA	1600mA	1800mA	2000mA	2200mA	2400mA	2600mA	2800mA	3000mA

Temp	10°C	25°C	40°C
Lumens	4,892	5,393	5,422
Efficiency	144	156	156

Temp	10°C	25°C	40°C
Lumens	4,892	5,393	5,422
Efficiency	144	156	156

FIGURE 0623 page 4  
 February 23, 2024 4:17 PM

**McGraw-Edison GWC Galleon Wall**

**3000K CCT, 40 CR**

Temp	10°C	25°C	40°C
Lumens	3,892	4,393	4,422
Efficiency	114	126	126

Temp	10°C	25°C	40°C
Lumens	3,892	4,393	4,422
Efficiency	114	126	126

Temp	10°C	25°C	40°C
Lumens	3,892	4,393	4,422
Efficiency	114	126	126

FIGURE 0623 page 5  
 February 23, 2024 4:17 PM

**McGraw-Edison GWC Galleon Wall**

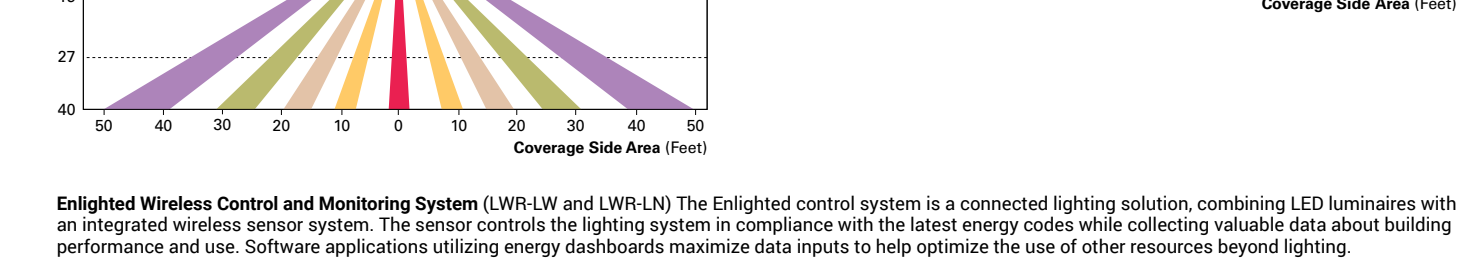
**Control Options**

• 0-10V dimming (standard with 0-10V dimming driver). The DM option provides 0-10V dimming who leads for use with a lighting control panel or other control method.

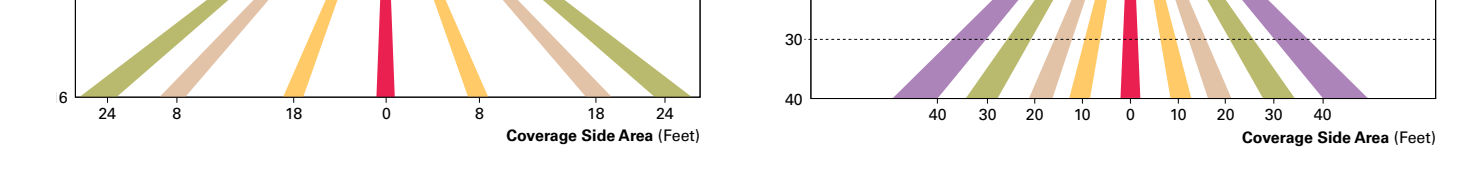
• Photocell (BPC, PR, and PRT) Optical bottom-type photocell (BPC) and photocell receptacle (PR and PRT) provide a flexible solution to enable "dark-to-down" options by sensing light levels. Advanced control systems compatible with NECA 1-type standards can be utilized with the BPC receptacle.

• After Hours Dim (AHD) This feature allows photocell-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dark-to-down" period has been calculated from the photocell input. Specify the desired dimming profile for a simple, factory-based dimming solution requiring no external control system. Reference the After Hours Dim implementation guide for additional information.

• Occupancy Sensor (SPR, MSL, MSL-LX, and MSL-LX-L) These sensors are factory installed in the luminaire housing. When the SPR or MSL/MSL sensor options are selected, the occupancy sensor is connected to a dimming driver and will reduce luminaire drive current when no activity is detected. When activity is detected, the luminaire returns to full light output. The MSL/MSL sensor is factory preset to dim to approximately 50 percent power with a time delay of five minutes. The MSL-LX sensor is factory preset to dim the luminaire off after five minutes. The SPR sensor requires a DALI dimming driver. The MSL/MSL occupancy sensor requires the Light IQ programming module for full functionality.



**Enlighted Wireless Control and Monitoring System (WMLW and WML-LX)** The Enlighted control system is a connected lighting solution, combining LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes while collecting valuable data about building performance and use. Software applications utilizing energy dashboards maximize data inputs to help optimize the use of other resources beyond lighting.

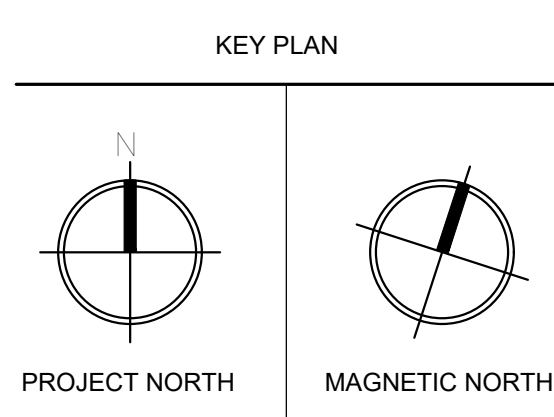


**WaveLine Wireless Outdoor Lighting Control Module (WOLC-TP-10A)** The 7-pin wireless outdoor lighting control module enables WaveLine to control outdoor area, site and flood lighting. WaveLine controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomical or time schedules based on a 7-day week.

FIGURE 0623 page 6  
 February 23, 2024 4:17 PM

**MSBA DESIGN  
 DEVELOPMENT  
 SUBMISSION**

05/01/2024



**ELECTRICAL  
 SITE LIGHTING  
 PLANS**

Scale: N.T.S.  
 Project: 22001.00  
 Author: RCB  
 Date: 05/01/2024  
**ES-0-1C**