



1. EXISTING CONDITIONS SHOWN ARE BASED ON RECORD PLANS AND SITE OBSERVATIONS. PRESENTATION OF AVAILABLE INFORMATION ON THESE DRAWINGS IN NO WAY IMPLIES ITS COMPLETENESS OR ACCURACY. THE CONTRACTOR IS RESPONSIBLE FOR THE FIELD MEASUREMENT OF ALL EXISTING ITEMS AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PRESENTED HEREIN.
2. ELEVATIONS AND DIMENSIONS WERE TAKEN FROM DESIGN PLAN SET ENTITLED, "JOHN FITZGERALD KENNEDY HIGH SCHOOL", DATED JULY 1964, PREPARED BY PERKINS AND WILL.
3. BRING ANY DISCREPANCY OBSERVED IN DRAWINGS AND IN FIELD TO NOTICE OF ENGINEER PRIOR DEMOLITION.
4. DEMOLITION OF CONCRETE SLABS, MASS CONCRETE STAITS AND LANDING SHALL BE PERFORMED BY SAW-CUT DEMOLITION AND GRINDING. NO HEAVY JACK-HAMMERING IS ALLOWED.
5. CONTRACTOR SHALL LEGALLY DISPOSE OF DEMOLISHED ITEMS IN A MANNER ACCEPTABLE BASED ON THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NJDEP) REGULATIONS.
6. FOR OTHER DEMOLITION NOTES AND DEMOLITION OF NON-STRUCTURAL ELEMENTS AND EQUIPMENT SEE D-SERIES DRAWINGS.

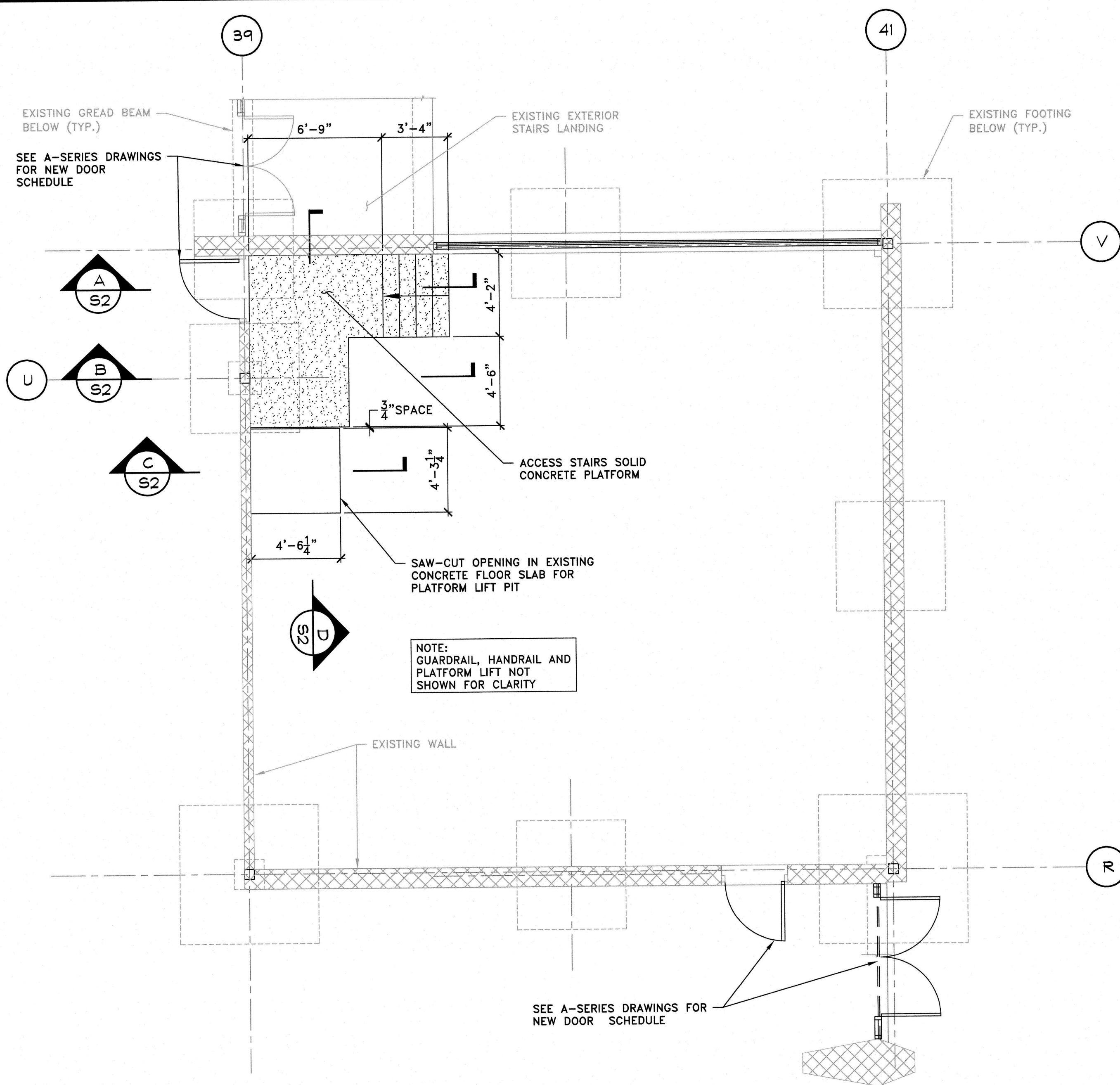
3. EXISTING CONDITIONS SHOWN ARE BASED ON RECORD PLANS. PRESENTATION OF AVAILABLE INFORMATION ON THESE DRAWINGS IN NO WAY IMPLIES ITS COMPLETENESS OR ACCURACY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS PRIOR TO SUBMIT SHOP DRAWINGS AND ORDERING ANY EQUIPMENT. NO ALLOWANCES WILL BE MADE BY THE OWNER FOR ERRORS RELATED TO THE CONTRACTOR NOT VERIFYING AND CHECKING THE DIMENSIONS AND ELEVATIONS IN THE FIELD.
2. DETAILS ARE INTENDED TO DEPICT GENERAL CONSTRUCTION METHODS FOR THE STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH AND VERIFY GEOMETRY AND POSSIBLE CONFLICTS WITH THE PROPOSED SCOPE OF WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS PRIOR TO CONSTRUCTION. IF EXISTING CONDITIONS CONFLICT WITH CONTRACT DOCUMENTS, NOTIFY ENGINEER OF RECORD FOR CLARIFICATION IN A TIMELY MANNER. DO NOT DEVIATE FROM THE CONSTRUCTION DOCUMENTS WITHOUT INSTRUCTION FROM ENGINEER OF RECORD.
2. STRUCTURAL MEMBERS SIZES AND REINFORCING SHOWN HAVE BEEN DESIGNED TO SUIT THE EQUIPMENT SPECIFIED AND ARE THE MINIMUM ACCEPTABLE. SHOULD ALTERNATE EQUIPMENT BE USED, ANY DIMENSIONAL CHANGES MADE TO COMPLETE INSTALLATION SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY.
6. DIMENSIONS AND ELEVATIONS ARE BASED ON DESIGN PLAN SET ENTITLED ""JOHN FITZGERALD KENNEDY HIGH SCHOOL", DATED JULY 1964, PREPARED BY PERKINS AND WILL.
4. ALL CONCRETE SHALL BE CLASS E CONCRETE AND SHALL CONTAIN FIBERMESH 150 @ 1.5 lb/cy BY PROPEX CONCRETE SYSTEMS OR EQUAL.
5. FOR TYPICAL MASONRY AND CONCRETE DETAILS AND NOTES, SEE SHEET S9.
7. FOR GENERAL STRUCTURAL STEEL NOTES AND DETAILS, SEE SHEET S10.
8. REFER TO M & E-SERIES DRAWINGS FOR PIPING, MECHANICAL AND ELECTRICAL ARRANGEMENTS AND DETAILS.
9. DRILLED IN ADHESIVE ANCHORS SHALL BE HILTI STAINLESS STEEL TYPE 316 HAS-R THREADED RODS WITH NUT AND WASHER INSTALLED WITH HILTI HIT-HY 200 ADHESIVE OR EQUAL. MINIMUM EMBEDMENT AS SHOWN ON DRAWINGS.
10. ALL ADHESIVE ANCHORS AND REBARS SHALL BE INSTALLED ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
11. FOR GUARDRAIL AND HANDRAIL, SEE A-SERIES DRAWINGS.
12. ANY ALUMINUM IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS SHALL HAVE THE CONTACT SURFACE COATED WITH TWO (2) COATS OF A BITUMINOUS PAINT OR PROTECTED WITH MYLAR ISOLATORS, 1/8" THK. PTFE ISOLATORS SHEET OR OTHER APPROVED MATERIAL.



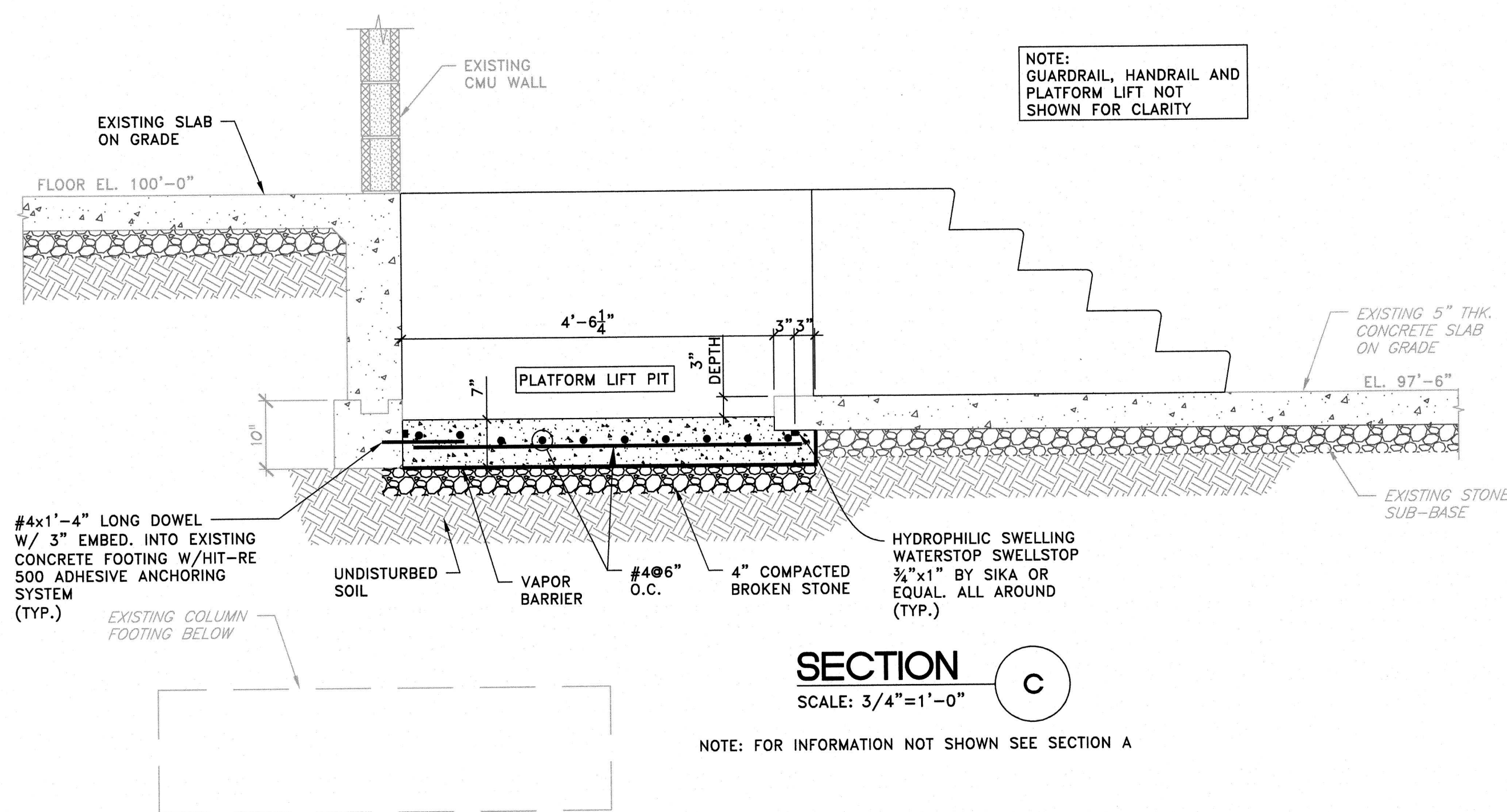
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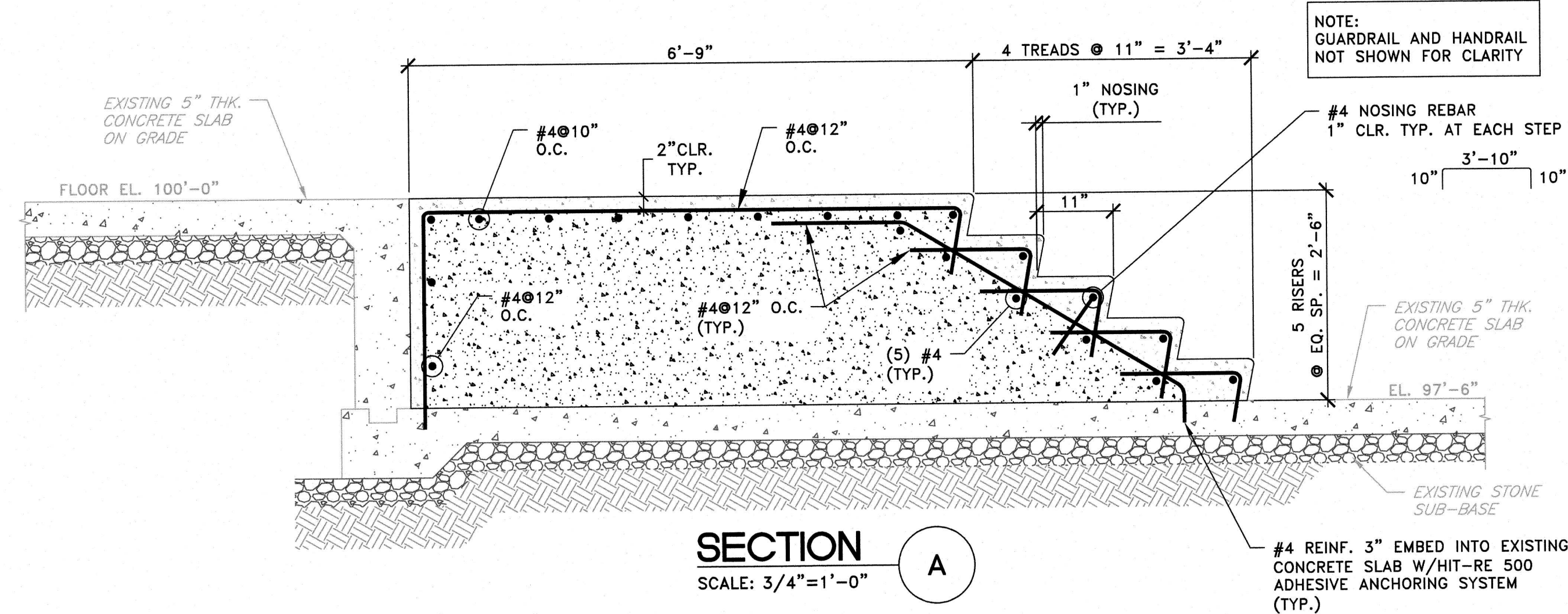
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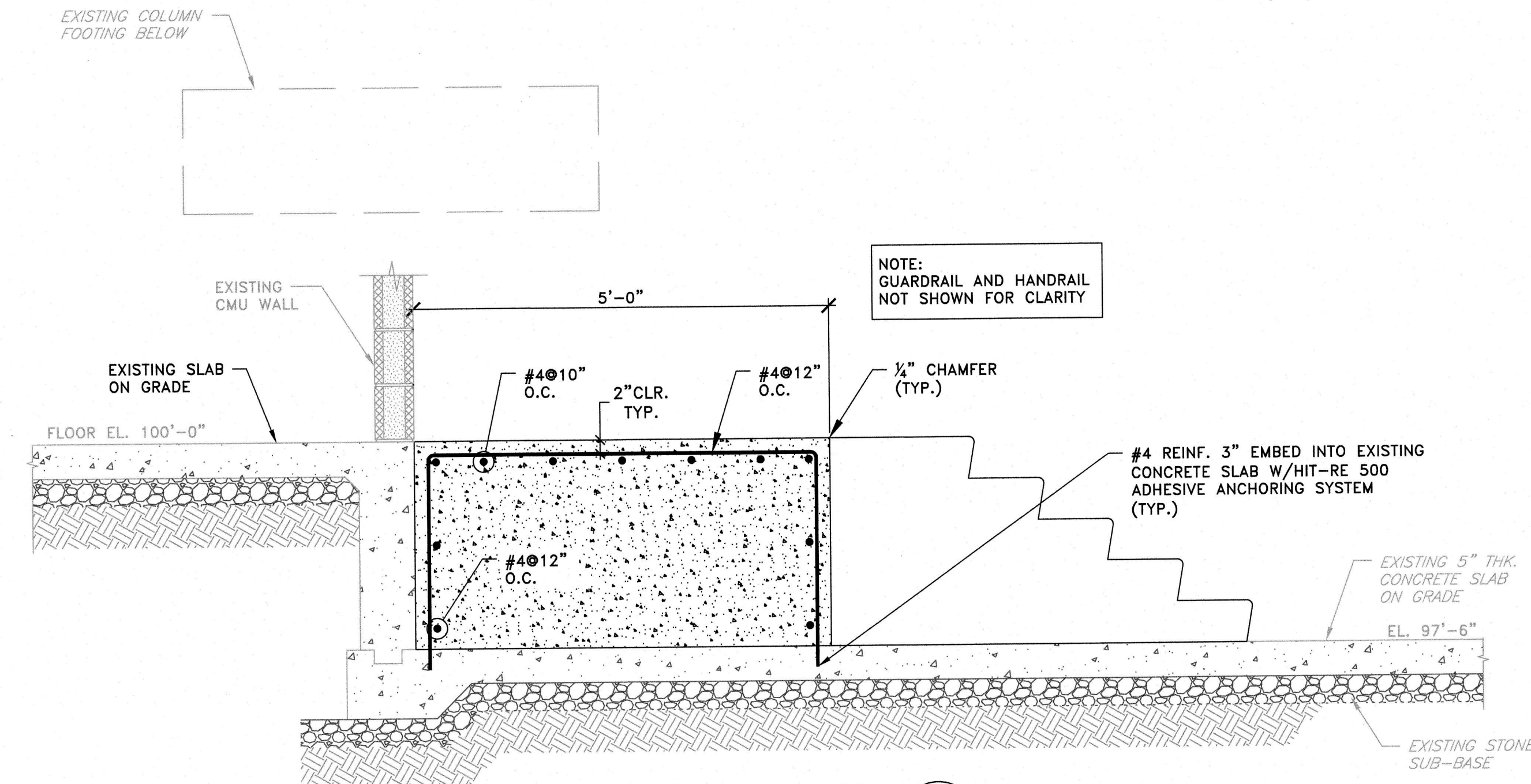
**DETAIL 1 ACCESS STAIRS AND PLATFORM LIFT PLAN**  
TEEN ROOM #145  
SCALE: 1/4" = 1'-0"



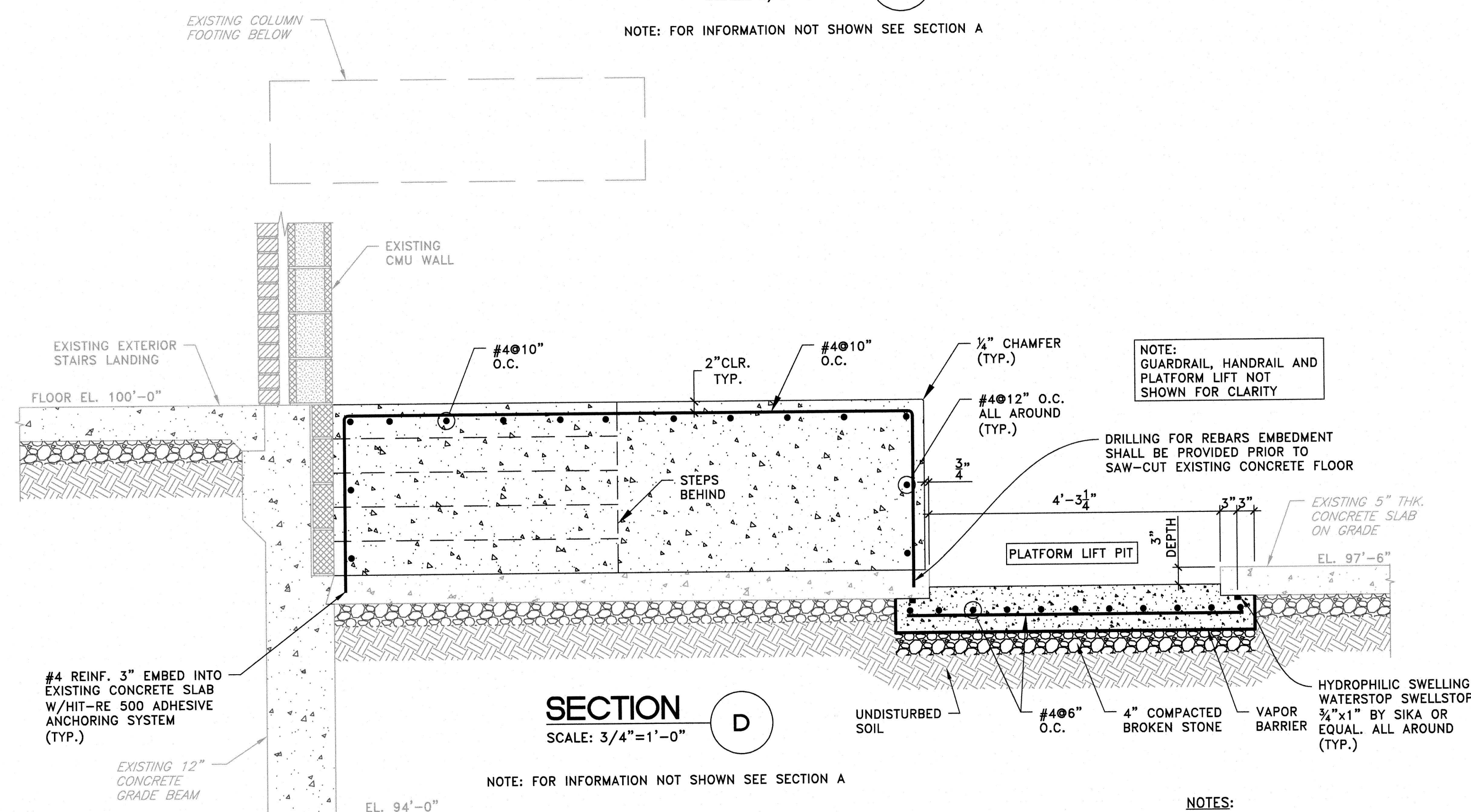
**SECTION C**  
SCALE: 3/4" = 1'-0"



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



**SECTION B**  
SCALE: 3/4" = 1'-0"



**SECTION D**  
SCALE: 3/4" = 1'-0"

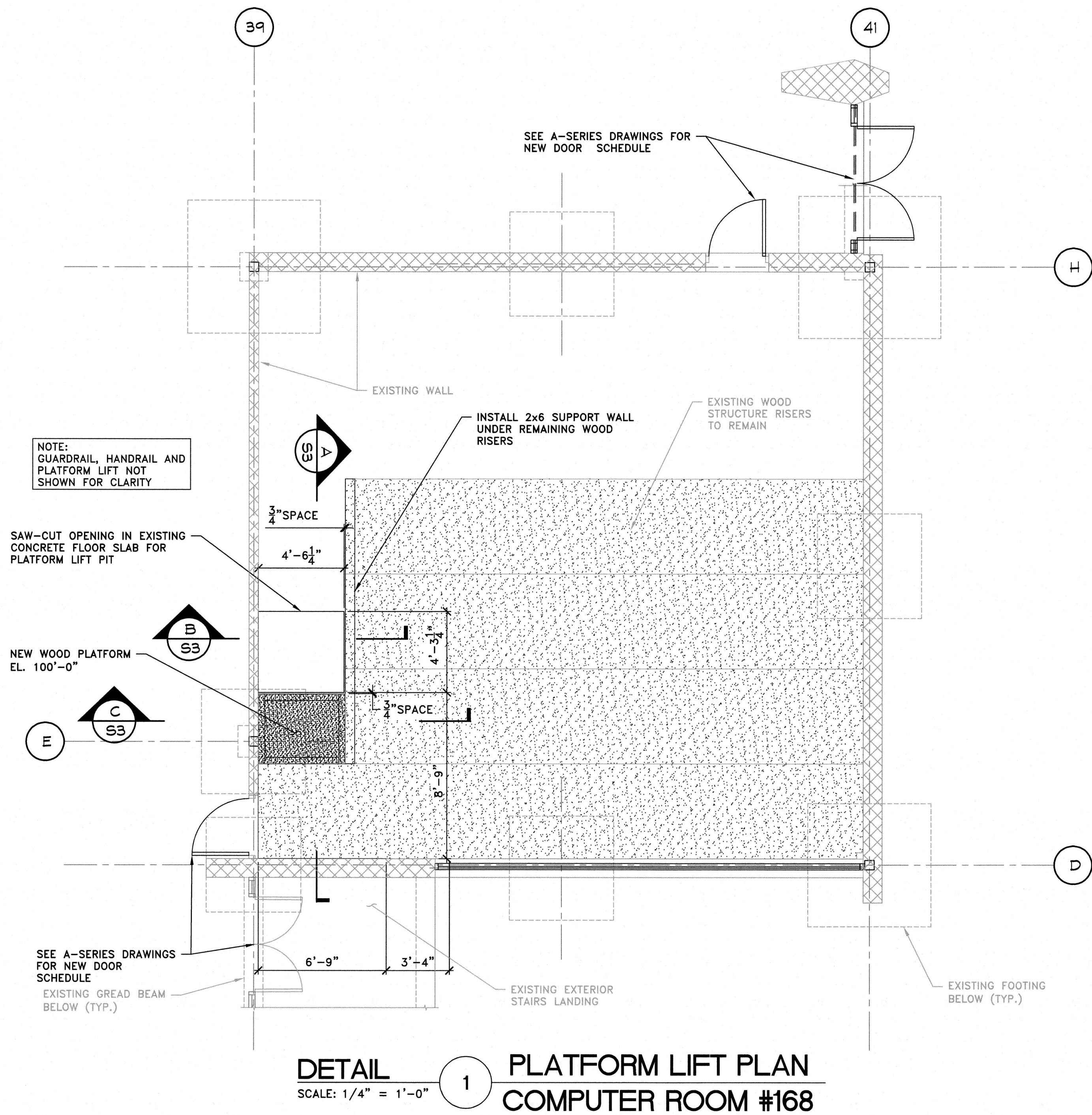
NOTES:  
1. SEE GENERAL NOTES ON SHEET S1.

ISSUED FOR BID-9/25/26

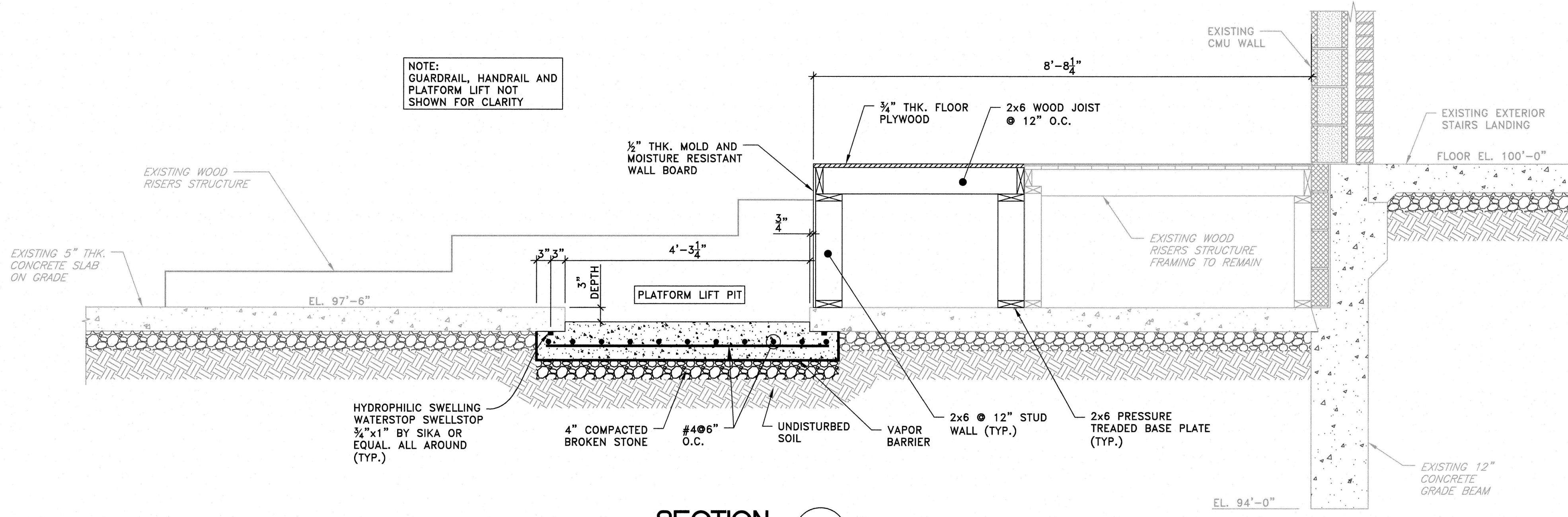
|                                                                                 |                                                                                      |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>William R. Long</b><br>PROFESSIONAL ENGINEER<br>NEW JERSEY LICENSE NO. 38012 |                                                                                      |
| <b>Anita S. Aradhya</b><br>REGISTERED ARCHITECT<br>NEW JERSEY LICENSE NO. 18769 |                                                                                      |
| DATE                                                                            | BY                                                                                   |
| REVISIONS                                                                       |                                                                                      |
| CLIENT: KENNEDY CENTER<br>RENOVATION TO THE SENIOR CENTER                       | PROJECT NO.: M-0410-001-1-000<br>WILLINGBORO TWP.<br>EURLINGTON COUNTY<br>NEW JERSEY |
| DESIGNED BY: PG<br>DRAWN BY: PG<br>CHECKED BY: PG<br>DEPT. HEAD: PG             | PROJECT NO.: M-0410-001-1-000<br>WILLINGBORO TWP.<br>EURLINGTON COUNTY<br>NEW JERSEY |
| 200 HIGH STREET<br>MOUNT HOLLY, N.J.                                            |                                                                                      |
| SHEET<br><b>S2</b>                                                              |                                                                                      |
| FILE NO.:                                                                       |                                                                                      |



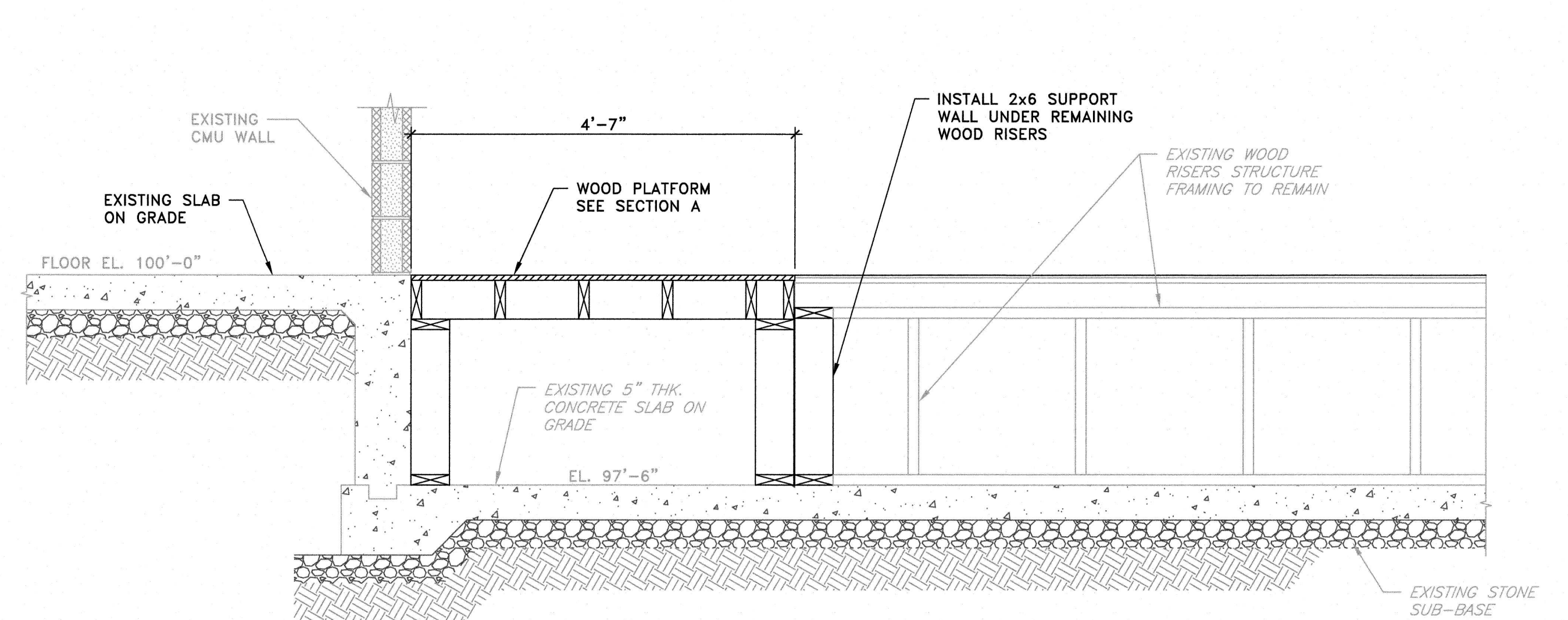
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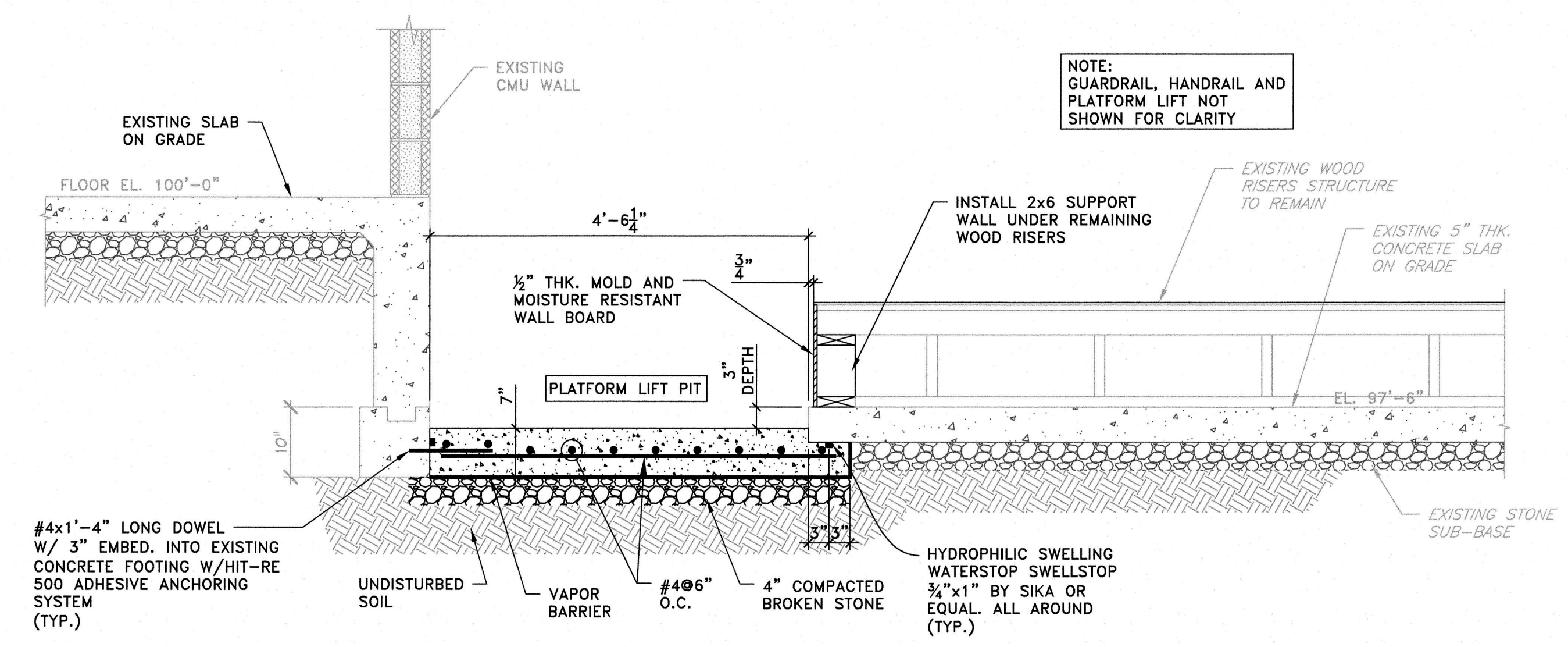
**DETAIL 1**  
SCALE: 1/4" = 1'-0"  
**PLATFORM LIFT PLAN**  
**COMPUTER ROOM #168**



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



**SECTION C**  
SCALE: 3/4" = 1'-0"



**SECTION B**  
SCALE: 3/4" = 1'-0"

NOTES:  
1. SEE GENERAL NOTES ON SHEET S1.

ISSUED FOR BID-9/25/26

|                                                                                 |                              |
|---------------------------------------------------------------------------------|------------------------------|
| <b>WILLIAM R. LONG</b><br>PROFESSIONAL ENGINEER<br>NEW JERSEY LICENSE NO. 33012 |                              |
| <b>ANITA S. ARADHYA</b><br>REGISTERED ARCHITECT<br>NEW JERSEY LICENSE NO. 18769 |                              |
| DATE: AUG. 2026                                                                 | DESIGNED BY: PG              |
| DRAWN BY: PG                                                                    | CHECKED BY: PG               |
| DEPT. HEAD: PG                                                                  |                              |
| CLIENT: KENNEDY CENTER<br>RENOVATION TO THE SENIOR CENTER                       | PROJECT NO.: M-0410-0011-000 |
| PROJECT LOCATION: WILLINGBORO TWP.<br>BURLINGTON COUNTY<br>NEW JERSEY           | CONTRACT NO.: BID#9-2026     |
| SHEET <b>S3</b>                                                                 |                              |
| FILE NO.:                                                                       |                              |



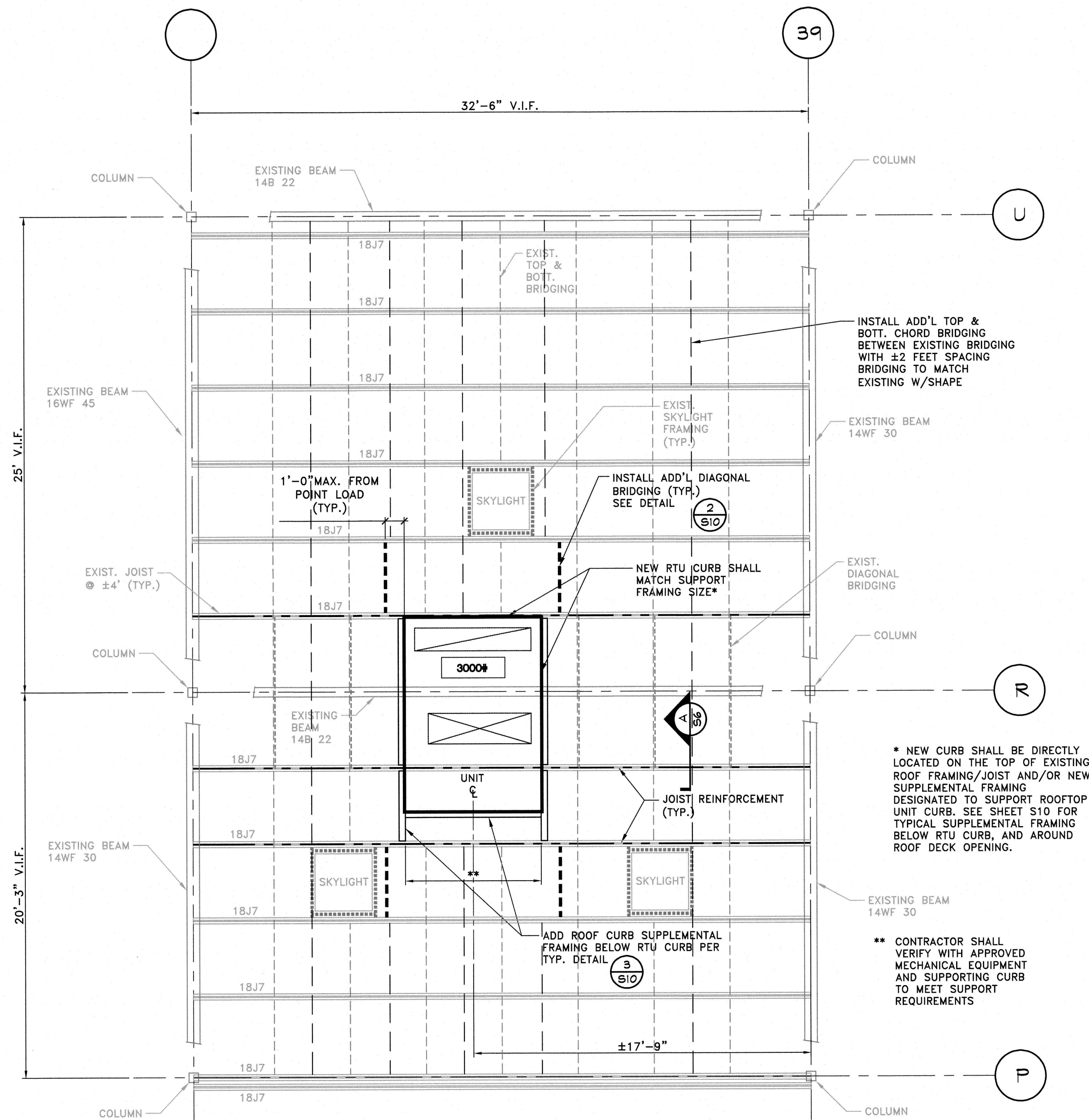




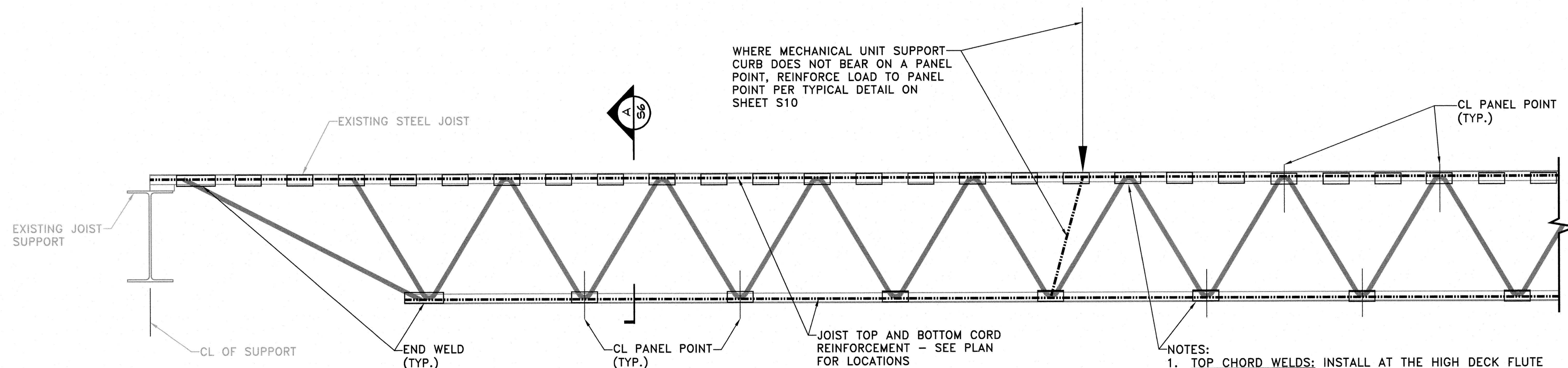




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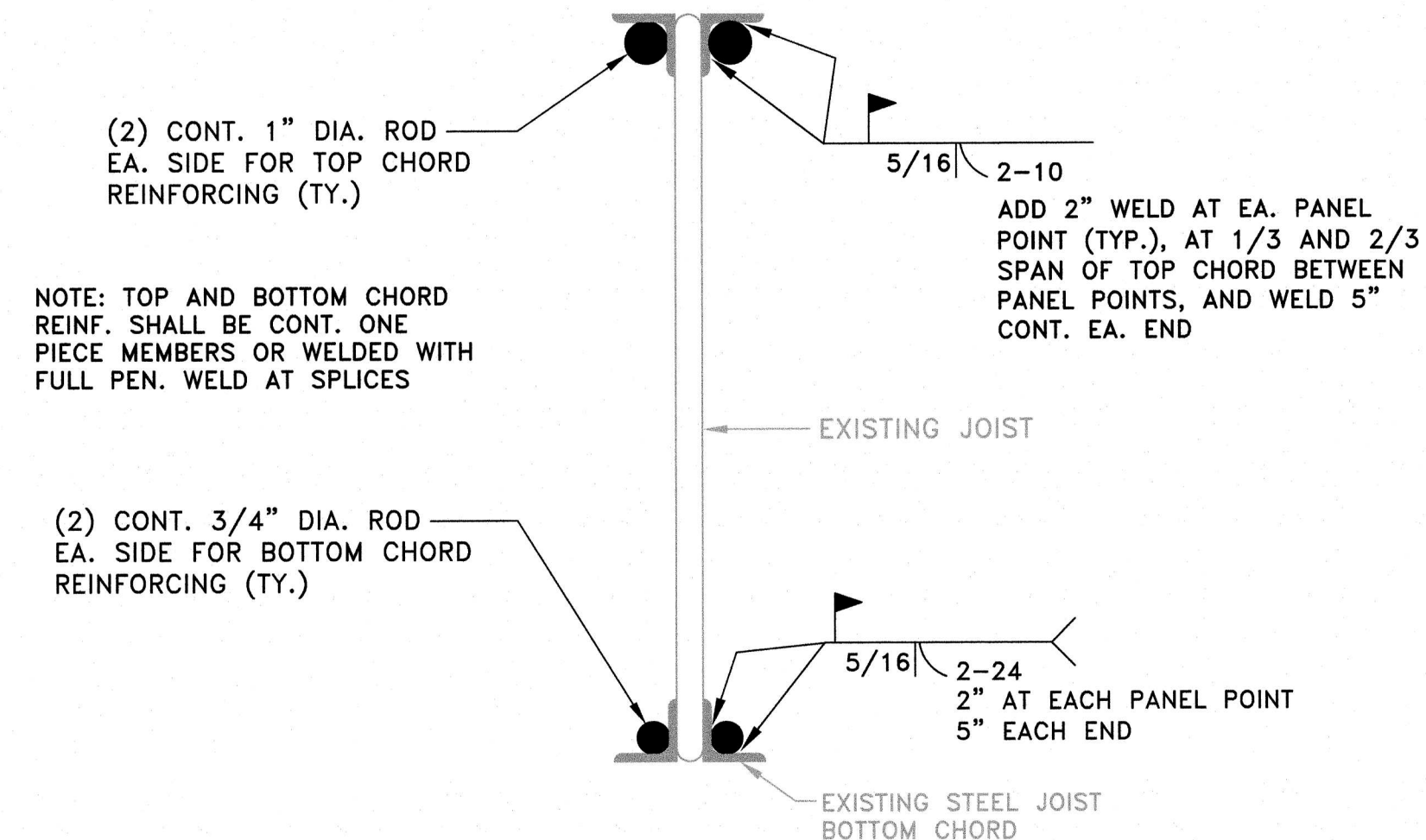


PARTIAL ROOF FRAMING PLAN - RTU -20  
SCALE: 1/4"=1'-0"



DETAIL 1 18J7 TYPICAL JOIST REINFORCING DETAIL  
SCALE: N.T.S.

NOTE: SHORE JOIST BEFORE WELDING REINFORCING TO JOIST.



NOTES:

1. TOP CORD WELDS: INSTALL AT THE HIGH DECK FLUTE LOCATED IMMEDIATELY ADJACENT / OVER THE JOIST PANEL POINT AND AT 1/3 AND 2/3 SPAN OF THE TOP CORD BETWEEN PANEL POINTS, MINIMUM.
2. BOTTOM CORD WELDS: AS THE RODS ARE IN TENSION, BOTTOM CHORD REINFORCEMENT MAY BE WELDED AT EACH BOTTOM CORD PANEL POINT ONLY, AND THE CONTINUOUS WELD INDICATED AT EACH END.
3. REINFORCEMENT BARS TO BE CENTERED ALONG EXISTING JOIST WITH THE MINIMUM LENGTH INDICATED ON PLAN. VERIFY JOIST PANEL POINTS IN FIELD PRIOR TO PROCURING REINFORCEMENT. REINFORCEMENT TO LAP THE PANEL POINT BY A MINIMUM 3 INCHES AT THE ENDS OF REINFORCEMENT.

SECTION A  
SCALE: 3/8"=1'-0"

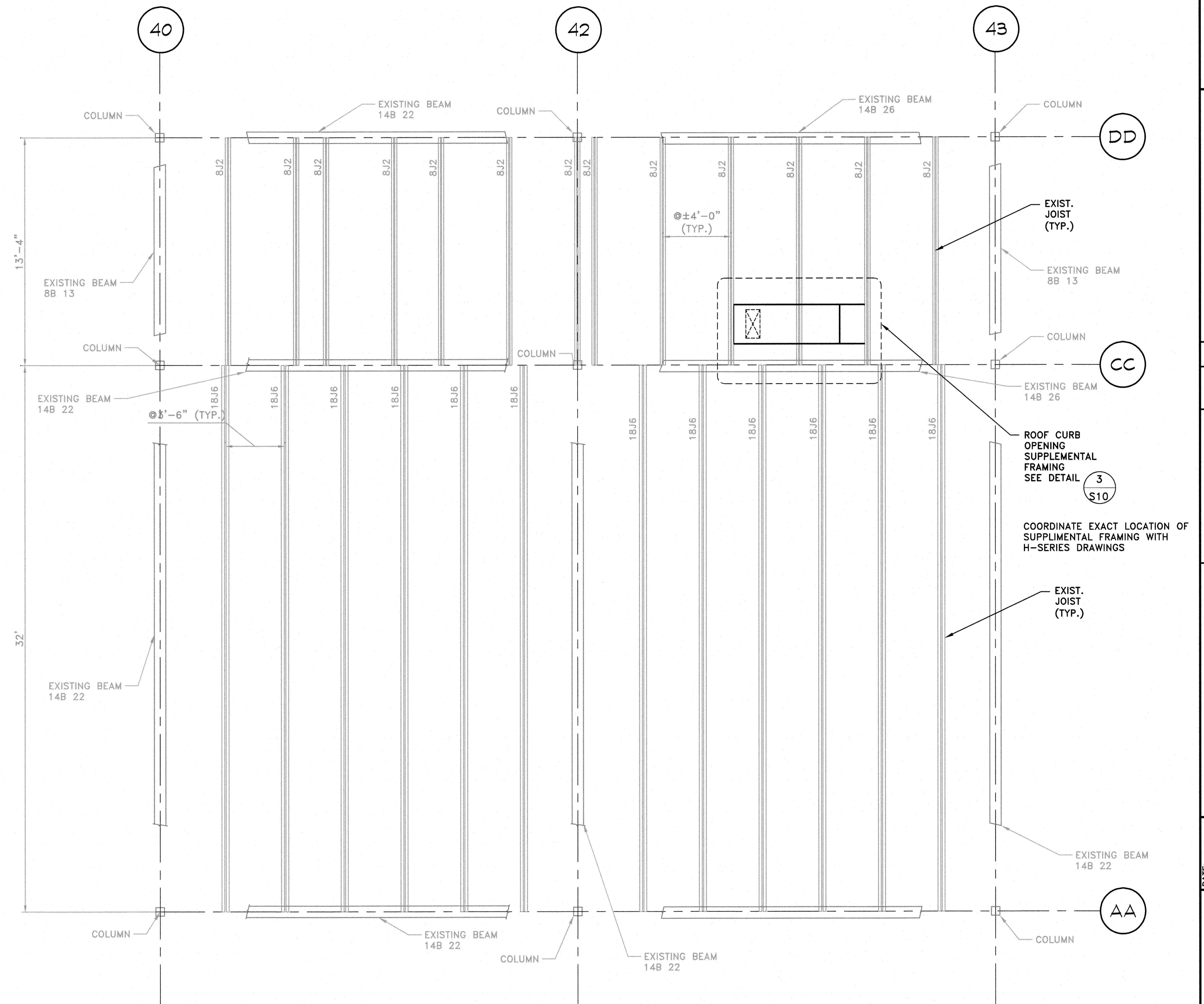
NOTES:

1. EXISTING STRUCTURAL ROOF FRAMING CONDITIONS AT NEW HVAC UNITS BEING INSTALLED, AS SHOWN, ARE BASED ON RECORD PLANS. PRESENTATION OF AVAILABLE INFORMATION ON THESE DRAWINGS IN NO WAY IMPLIES ITS COMPLETENESS OR ACCURACY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SPACINGS, AND ELEVATIONS PRIOR TO SUBMITTING SHOP DRAWINGS AND ORDERING ANY EQUIPMENT. NO ALLOWANCES WILL BE MADE BY THE OWNER FOR ERRORS RELATED TO THE CONTRACTOR NOT VERIFYING AND CHECKING THE DIMENSIONS AND ELEVATIONS IN THE FIELD.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER DEPICTING THE SIZE OF ROOFTOP EQUIPMENT CURB OPENINGS AND THE SUPPLEMENTAL FRAMING LAYOUT WITH APPROVED ROOFTOP EQUIPMENT AND EQUIPMENT CURB SUBMITTALS PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
3. SUPPLEMENTAL FRAMING FOR ROOF TOP EQUIPMENT SHALL BE INSTALLED DIRECTLY UNDER THE ROOFTOP EQUIPMENT CURB.
4. STEEL ROOF DECK TO REMAIN SHALL BEAR MINIMUM 1 1/2" ON SUPPLEMENTAL FRAMING OR EXISTING ROOF STRUCTURAL MEMBERS AROUND ENTIRE PERIMETER AND BE ATTACHED TO SUPPLEMENTAL FRAMING OR EXISTING STRUCTURAL MEMBERS W/ 3/8" SPOT WELDS @ 6" MAX.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL TRADES, DIVISIONS AND EXISTING CONDITIONS FOR ANY REQUIRED ACCESS ASSOCIATED WITH INSTALLATION OF SUPPLEMENTAL FRAMING, ADDITIONAL BRIDGING AND BRACING, SUPPORTS, AND CONNECTIONS, INCLUDING REMOVAL AND REINSTALLATION OF CEILINGS, WALLS, WIRING, DUCTWORK, PIPING, AND OTHER EXISTING CONSTRUCTION AS REQUIRED TO COMPLETE THE WORK.
6. ANY DISTURBED WALL, FLOOR, ROOF, OR CEILING CONSTRUCTION, INCLUDING FRAMING FIREPROOFING INSULATION, FIRE-STOPPING, AND FIRE- OR SMOKE-RATED ASSEMBLIES, SHALL BE REPAIRED AND RESTORED TO MATCH EXISTING CONDITIONS AND MAINTAIN REQUIRED RATINGS. ALL SUCH WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS, ATTACHMENTS, AND RELATED WORK WITH ROOFING CONTRACTOR AS REQUIRED TO MAINTAIN ROOF WARRANTY.
8. FOR GENERAL NOTES SEE SHEET S1.

|                                                                          |                 |                                                                          |                                                        |
|--------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------|--------------------------------------------------------|
|                                                                          |                 |                                                                          |                                                        |
| William R. Long<br>PROFESSIONAL ENGINEER<br>NEW JERSEY LICENSE NO. 33012 |                 | Anita S. Aradhya<br>REGISTERED ARCHITECT<br>NEW JERSEY LICENSE NO. 18769 |                                                        |
| DATE: AUG. 2026                                                          | DESIGNED BY: PG | PROJECT NO.: M-0410-0011-000                                             | CONTRACT NO.: BID#6-2026                               |
| DRAWN BY: PG                                                             | CHECKED BY: PG  | PROJECT LOCATION: WILLINGBORO TWP., BURLINGTON COUNTY, NEW JERSEY        | CLIENT: KENNEDY CENTER RENOVATION TO THE SENIOR CENTER |
| DEPT. HEAD:                                                              |                 | SCALE: AS NOTED                                                          | SHEET S6                                               |
| WILLINGBORO TOWNSHIP                                                     |                 | ROOM #152A MODIFICATIONS                                                 |                                                        |
| WILLIAM R. LONG, P.E.<br>ANITA S. ARADHYA, R.A.                          |                 | 200 HIGH STREET<br>MOUNT HOLLY, N.J.                                     |                                                        |
| Tri-State Architects, P.C. / Alaimo Group                                |                 | LIC. 33012<br>LIC. 18769                                                 |                                                        |
| REVISIONS                                                                |                 | FILE NO.:                                                                |                                                        |
| BY                                                                       | DATE            |                                                                          |                                                        |

ISSUED FOR BID-9/25/26





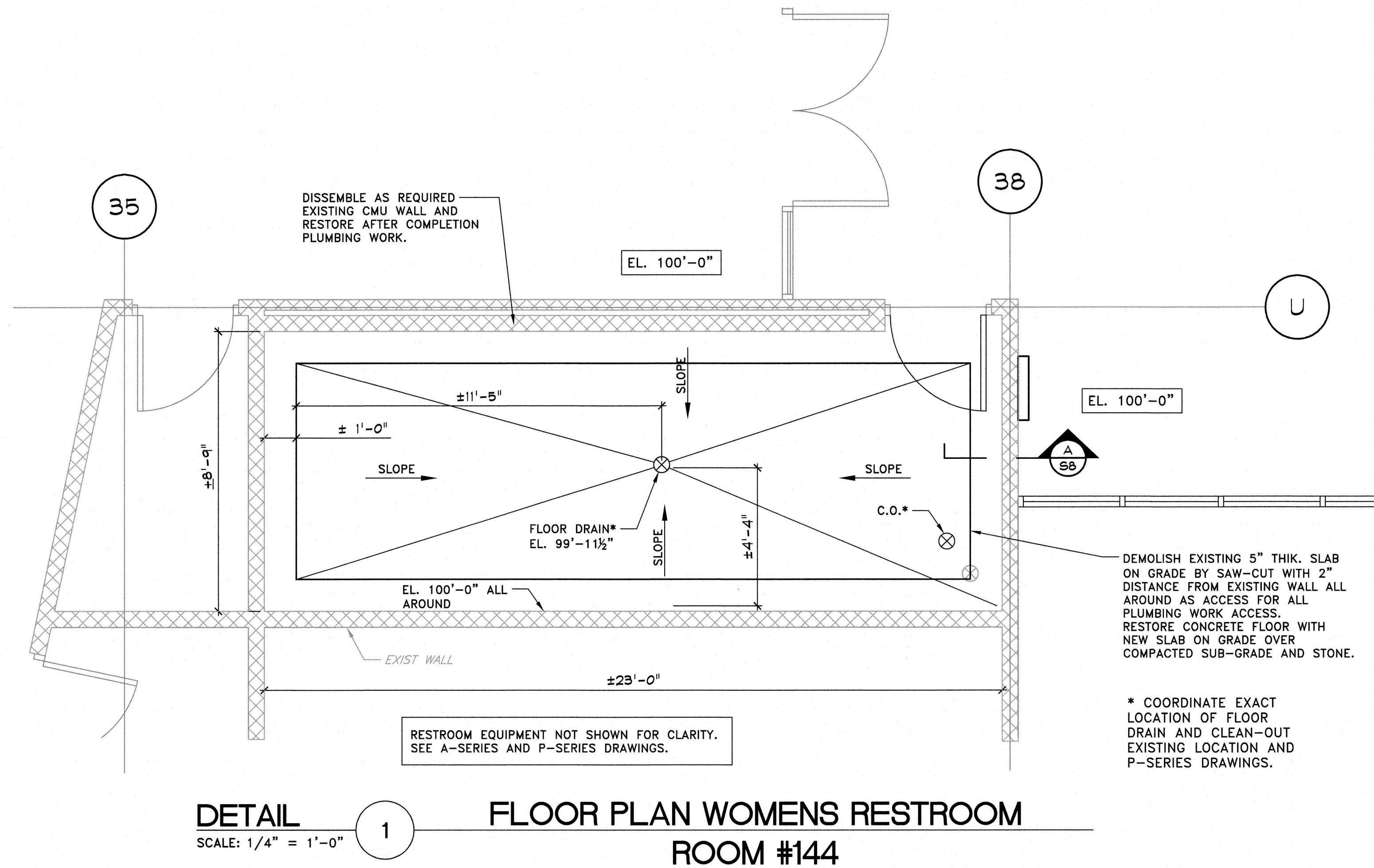
### PARTIAL ROOF FRAMING PLAN

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

1. EXISTING STRUCTURAL STEEL FRAMING CONDITIONS AT HVAC UNITS AND ASSOCIATED FLOOR AND ROOF DECK OPENINGS, AS SHOWN, ARE BASED ON RECORD PLANS. PRESENTATION OF AVAILABLE INFORMATION ON THESE DRAWINGS IN NO WAY IMPLIES ITS COMPLETENESS OR ACCURACY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SPACINGS, AND ELEVATIONS PRIOR TO SUBMITTING SHOP DRAWINGS AND ORDERING ANY EQUIPMENT. NO ALLOWANCES WILL BE MADE BY THE OWNER FOR ERRORS RELATED TO THE CONTRACTOR NOT VERIFYING AND CHECKING THE DIMENSIONS AND ELEVATIONS IN THE FIELD.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER DEPICTING THE SIZE OF ROOF TOP EQUIPMENT CURB OPENINGS AND THE SUPPLEMENTAL FRAMING LAYOUT WITH APPROVED ROOF TOP EQUIPMENT AND EQUIPMENT CURB SUBMITTALS PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
3. SUPPLEMENTAL FRAMING FOR ROOF TOP EQUIPMENT SHALL BE INSTALLED DIRECTLY UNDER THE ROOF TOP EQUIPMENT CURB.
4. STEEL ROOF DECK TO REMAIN SHALL BEAR MINIMUM 1½" ON SUPPLEMENTAL FRAMING OR EXISTING ROOF STRUCTURAL MEMBERS AROUND ENTIRE PERIMETER AND BE ATTACHED TO SUPPLEMENTAL FRAMING OR EXISTING STRUCTURAL MEMBERS W/ ¾" SPOT WELDS @ 6" MAX.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL TRADES, DIVISIONS AND EXISTING CONDITIONS FOR ANY REQUIRED ACCESS ASSOCIATED WITH INSTALLATION OF SUPPLEMENTAL FRAMING, ADDITIONAL BRIDGING AND BRACING, SUPPORTS, AND CONNECTIONS, INCLUDING REMOVAL AND REINSTALLATION OF CEILINGS, WALLS, WIRING, DUCTWORK, PIPING, AND OTHER EXISTING CONSTRUCTION AS REQUIRED TO COMPLETE THE WORK.
6. ANY DISTURBED WALL, FLOOR, ROOF, OR CEILING CONSTRUCTION, INCLUDING FRAMING FIREPROOFING INSULATION, FIRE-STOPPING, AND FIRE- OR SMOKE-RATED ASSEMBLIES, SHALL BE REPAIRED AND RESTORED TO MATCH EXISTING CONDITIONS AND MAINTAIN REQUIRED RATINGS. ALL SUCH WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER
7. CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS, ATTACHMENTS, AND RELATED WORK WITH ROOFING CONTRACTOR AS REQUIRED TO MAINTAIN ROOF WARRANTY.
8. SEE GENERAL NOTES ON SHEET S1.



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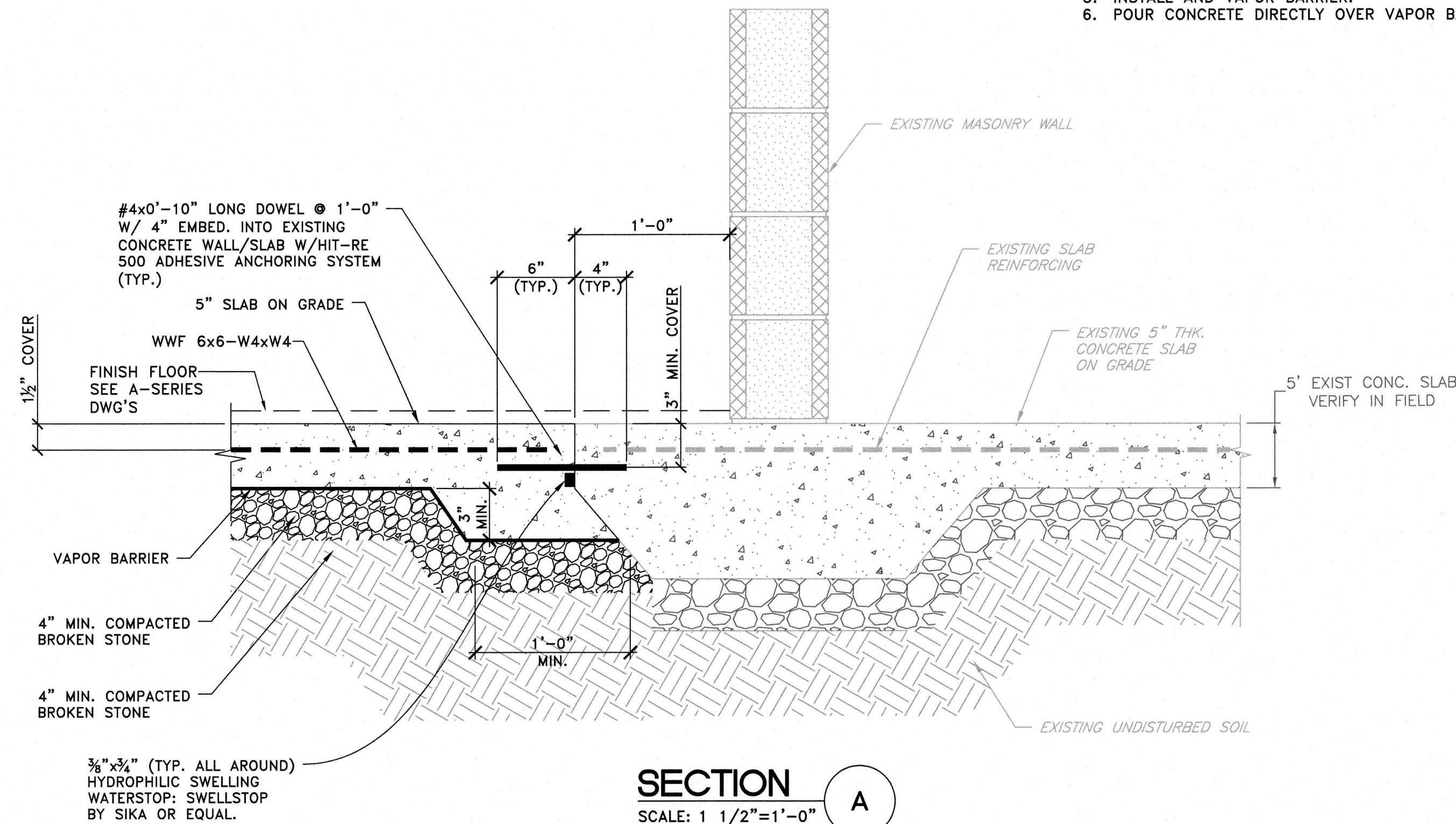
**DETAIL 1 FLOOR PLAN WOMENS RESTROOM ROOM #144**  
SCALE: 1/4" = 1'-0"

**SLAB-ON-GRADE GENERAL NOTES:**

1. CONTRACTOR SHALL PREVENT WATER SEEPAGE AT JOINTS BETWEEN NEW AND EXISTING CONCRETE SLAB AND WALLS. PROVIDE HYDROPHILIC SWELLING WATERSTOP ALL AROUND.
2. SLAB CONCRETE SHALL BE CLASS E AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAAYSWITH 1.5 LBS/C.Y. OF FIBERMESH 150 OR EQUAL. SEE SPECIFICATION.
3. FOR GENERAL CONCRETE CONSTRUCTION NOTES AND OTHER STANDARD DETAILS SEE SHEET S9.
4. FOR LOCATIONS OF PENETRATIONS, PIPE ENCASEMENTS NOT SHOWN ON THE SLAB DRAWING SEE P-SERIES DRAWINGS.

**SLAB-ON-GRADE SUBGRADE PREPARATION NOTES:**

1. EXCAVATE SUBGRADE TO A MINIMUM OF 1'-0" BELOW BOTTOM OF SLAB ELEVATION TO MEDIUM DENSE SOIL STRATA.
2. PROOFROOF THE EXCAVATED SUBGRADE.
3. OVER-EXCAVATE AND COMPLETELY REMOVE ANY LOOSE SOIL POCKETS AND INSTALL OF LOCALIZED CONTROLLED COMPACTED STRUCTURAL FILL OR BROKEN STONE.
4. INSTALL 4" LAYERS OF COMPACTED STRUCTURAL FILL NJDOT 1-5 GRADATION OR BROKEN STONE SUB-BASE.
5. INSTALL AND VAPOR BARRIER.
6. POUR CONCRETE DIRECTLY OVER VAPOR BARRIER.



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

**NOTES:**

1. SEE GENERAL NOTES ON SHEET S1.

ISSUED FOR BID-9/25/26

|                                                   |                                 |                                 |                    |                                                                          |                        |                   |                        |                 |
|---------------------------------------------------|---------------------------------|---------------------------------|--------------------|--------------------------------------------------------------------------|------------------------|-------------------|------------------------|-----------------|
| KENNEDY CENTER<br>RENOVATION TO THE SENIOR CENTER | CLIENT:<br>WILLINGBORO TOWNSHIP | DATE:<br>AUG. 2026              | DESIGNED BY:<br>PG | WILLINGBORO TOWNSHIP                                                     | WILLIAM R. LONG, P.E.  | LIC. 33012        | WILLIAM R. LONG, P.E.  | LIC. 33012      |
|                                                   |                                 | PROJECT NO.:<br>M-0410-0011-000 | DRAWN BY:<br>PG    | PROJECT LOCATION:<br>WILLINGBORO TWP.<br>BURLINGTON COUNTY<br>NEW JERSEY | ANITA S. ARADHYA, R.A. | LIC. 18769        | ANITA S. ARADHYA, R.A. | LIC. 18769      |
| ROOM # 144 MODIFICATIONS                          | SCALE: AS NOTED                 | CHECKED BY:<br>PG               |                    | DEPT. HEAD:<br>PG                                                        |                        | MOUNT HOLLY, N.J. |                        | 200 HIGH STREET |
| SHEET<br><b>S8</b>                                |                                 | FILE NO.:                       |                    |                                                                          |                        |                   |                        |                 |

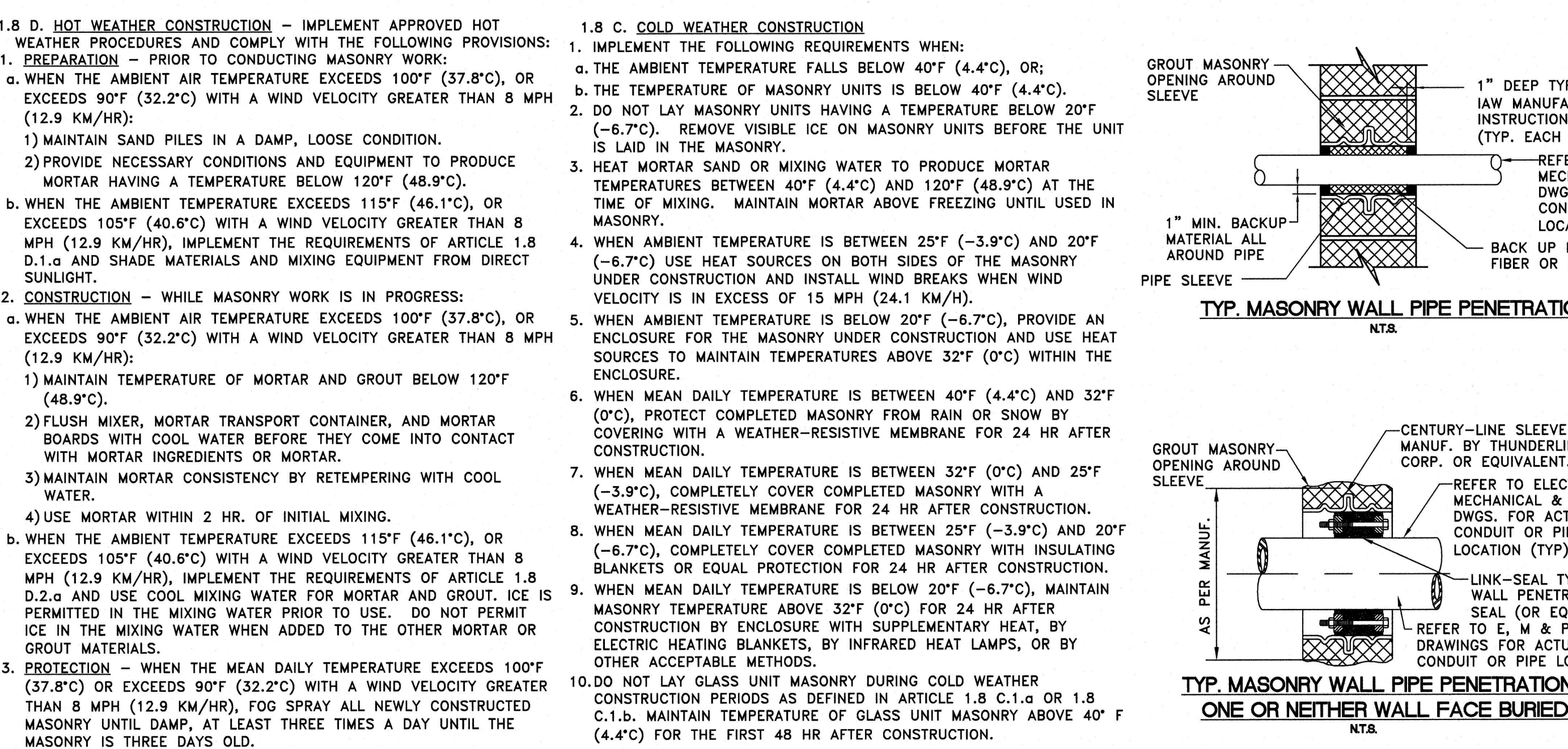
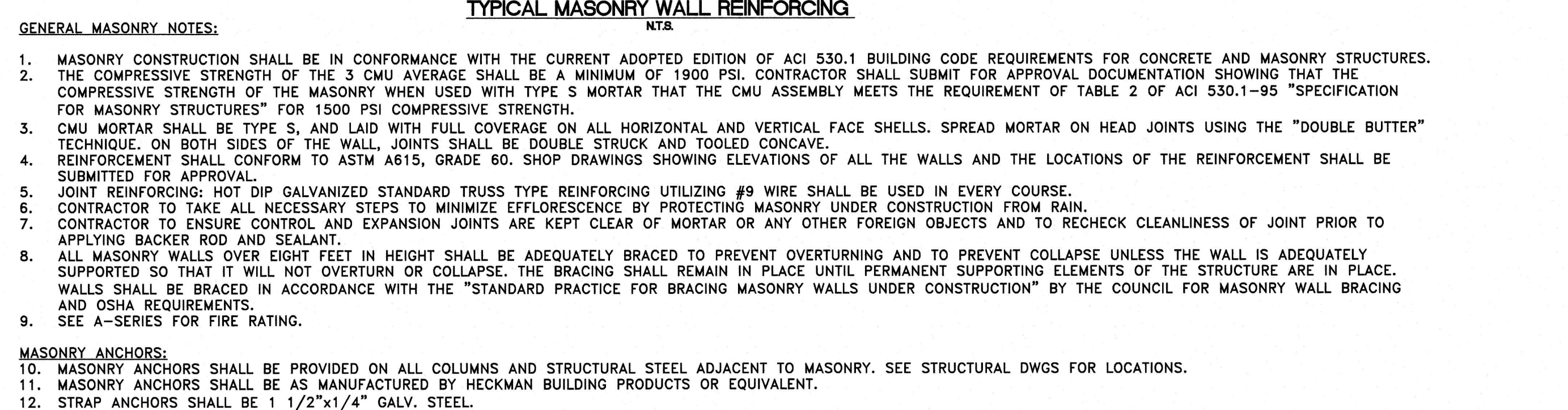
APPROVED

William R. Long  
PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE NO. 33012

APPROVED

Anita S. Aradhya  
REGISTERED ARCHITECT  
NEW JERSEY LICENSE NO. 18769





1. CAST AGAINST EARTH 3"

2. EXPOSED TO EARTH, LIQUID OR WEATHER

BEAM OR COLUMN— 2-1/2"

PRIMARY REINFORCEMENT

ALL OTHERS 2"

3. OTHER EXPOSURES

SLABS, WALLS, JOISTS 1-1/2"

#14 AND #18 3/4"

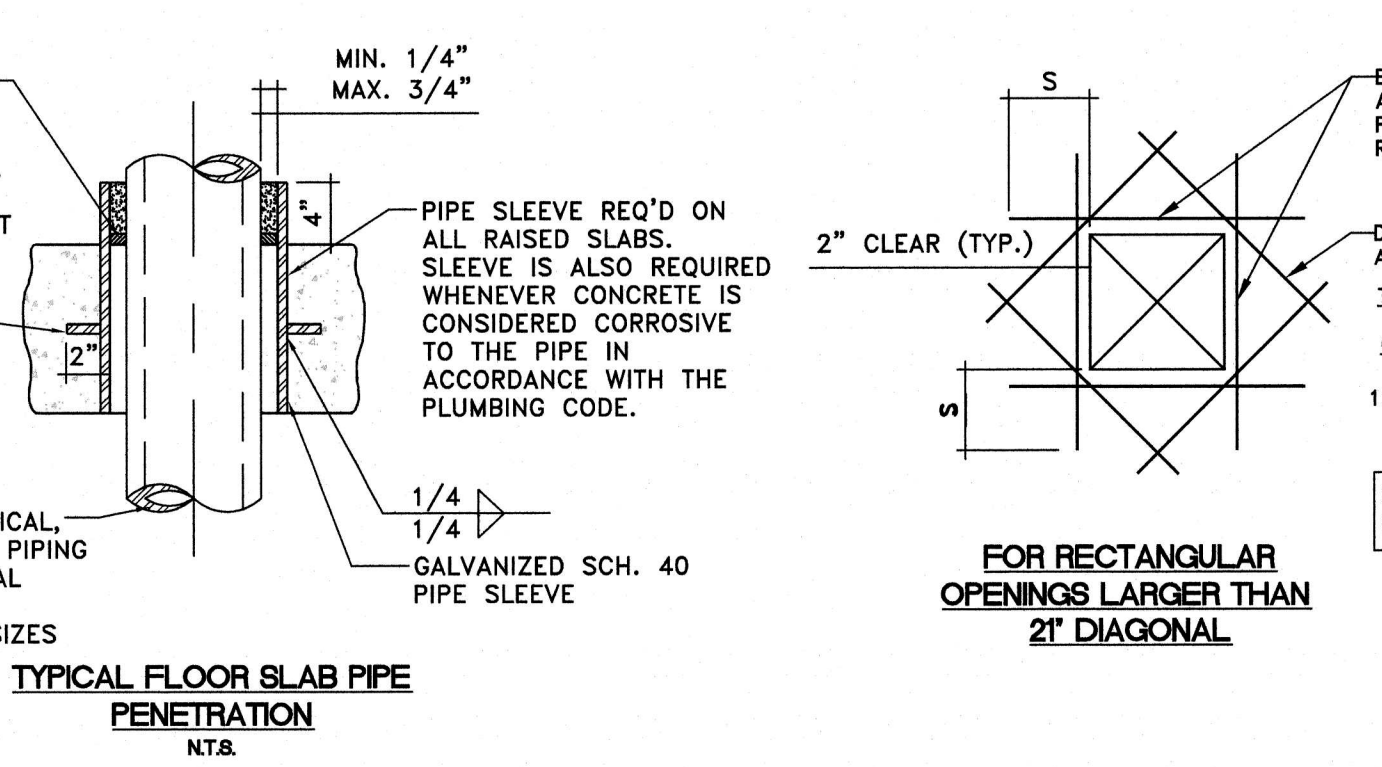
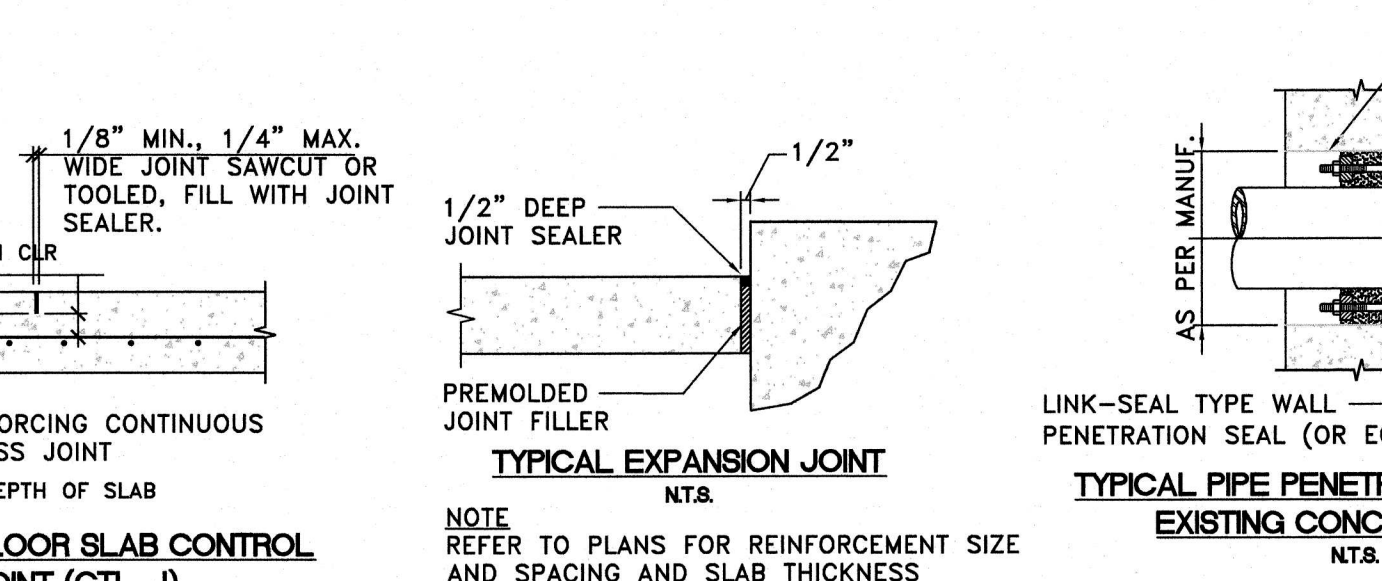
#11 AND SMALLER

BEAM OR COLUMN 2-1/2"

PRIMARY REINFORCEMENT 1-1/2"

STIRRUPS, SPIRALS, TIES

\*\*\*WHERE GREATER COVER IS CALLED FOR ON THE DRAWINGS, GREATER COVER SHALL BE USED.



VARIES: SEE PLAN

4" MIN. (TYP)  
ALL AROUND

1/2" CHAMFER  
ALL AROUND

DRILLED-IN  
ADHESIVE  
ANCHORS<sup>‡</sup>  
(MIN. EMBED.  
PER MANUF.)

1" GROUT IF NEEDED  
VARIES TO SUIT EQUIP.

5/8" Ø BOLTS IN HILTI-  
HFA THREADED INSERTS  
INSTALLED W/ HILTI HIT  
HY-150 ADHESIVE  
ANCHORING SYSTEM OR  
EQUIVALENT (MIN.  
EMBED. 5") @ 16" O.C.  
TYP. ALL AROUND (3  
MIN. EACH FACE)

ROUGHEN SURFACE  
UNDER PAD

‡ ANCHOR BOLT Ø, SPACING & PROJECTION  
TO MATCH EQUIPMENT BOLT DIAMETER & TO  
EQUAL EQUIPMENT HOLE DIAMETER MINUS  
1/8". UNLESS A GREATER SIZE IS CALLED  
FOR BY EQUIPMENT VENDOR.

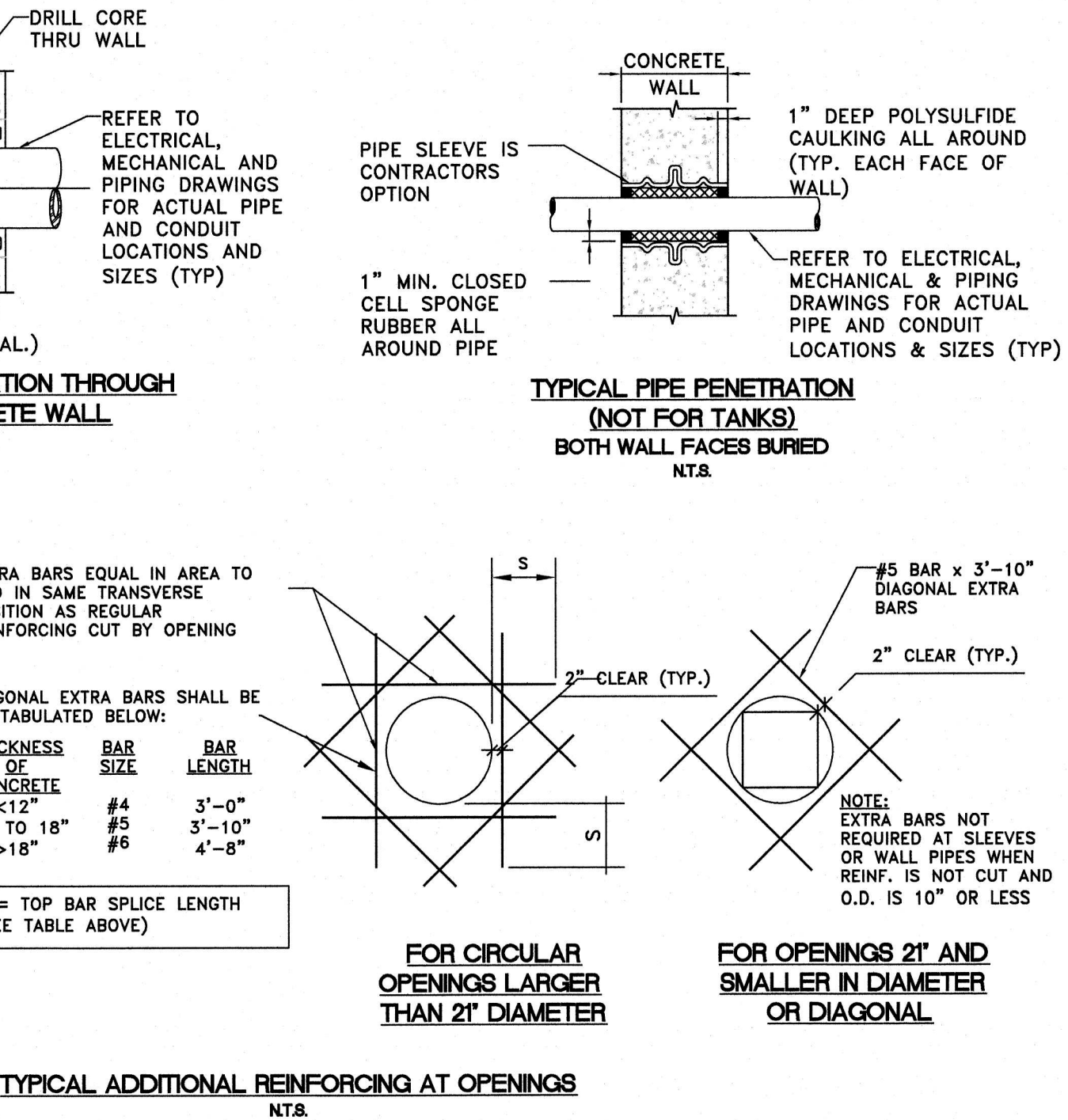
Ø 4" @ 12" EACH WAY

**TYPICAL EQUIPMENT BASE**

**PAD**

**NOTES**

(TO BE USED WHERE NO SPECIFIC FOUNDATION  
DETAIL IS SHOWN ON FOUNDATION PLAN)





### STRUCTURAL DESIGN CRITERIA

(IBC SECTION 1600):

CLASSIFICATION OF BUILDING (IBC TABLE 1604.5): CATEGORY – III

| ROOF LIVE LOADS:                    | UNIFORM (PSF) | CONCENTRATED (LBS) |
|-------------------------------------|---------------|--------------------|
| FIRST FLOOR:<br>ROOMS<br>CORRIDORS  | 40<br>100     | 1000<br>1000       |
| SECOND FLOOR:<br>ROOMS<br>CORRIDORS | 40<br>80      | 1000<br>1000       |
| ROOF:                               | 20            | 300                |

MECHANICAL EQUIPMENT LOADS: – PER APPROVED VENDOR DWGS

COLLATERAL ROOF DEAD LOADS: 5 PSF

|                                            |                |
|--------------------------------------------|----------------|
| SNOW LOADS:                                |                |
| EXPOSURE OF ROOF                           | FULLY EXPOSED  |
| THERMAL FACTOR, C <sub>t</sub>             | 1.0            |
| SNOW EXPOSURE FACTOR, C <sub>e</sub>       | 0.9            |
| IMPORTANCE FACTOR                          | 1.1            |
| GROUND SNOW LOAD, P <sub>g</sub>           | 33 PSF         |
| MIN. DESIGN ROOF SNOW LOAD, P <sub>f</sub> | 33 PSF + DRIFT |

|                                          |          |
|------------------------------------------|----------|
| WIND LOADS:                              |          |
| EXPOSURE CATEGORY (SURFACE ROUGHNESS C)  | B        |
| BASIC WIND SPEED, I <sub>10</sub>        | 125 MPH  |
| APPLICABLE INTERNAL PRESSURE COEFFICIENT | +/- 0.18 |

|                            |        |
|----------------------------|--------|
| SEISMIC LOADS:             |        |
| 1. I <sub>e</sub>          | =1.25  |
| 2. S <sub>s</sub>          | =0.21  |
| 3. S <sub>1</sub>          | =0.045 |
| 4. SITE CLASS              | = D    |
| 4. S <sub>ds</sub>         | =0.16  |
| 5. S <sub>d1</sub>         | =0.083 |
| 6. SEISMIC DESIGN CATEGORY | = A    |

SEISMIC NON-STRUCTURAL COMPONENTS AND RESTRAINTS:  
MECHANICAL & ELECTRICAL COMPONENTS ARE EXEMPT FROM SEISMIC DESIGN AS PER SECTION 13.1.4 OF THE ASCE 7-16

### STRUCTURAL STEEL GENERAL NOTES:

- STRUCTURAL STEEL**
  - STRUCTURAL STEEL CONSTRUCTION HAS BEEN DESIGNED IN ACCORDANCE WITH A.I.S.C. 360, "STEEL CONSTRUCTION MANUAL."
  - WIDE FLANGE STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A992, ALL OTHER STRUCTURAL STEEL SHAPES AND PLATES SHALL CONFORM TO ASTM A36. ALL TUBE STEEL SHALL CONFORM TO ASTM A500 GRADE B. WORKMANSHIP AND FABRICATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC SPECIFICATIONS. ALL WELDING SHALL CONFORM TO THE LATEST AWS AND AISC SPECIFICATIONS. CONNECTIONS SHALL BE BOLTED OR WELDED IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS. MINIMUM BOLT SIZE 3/4 INCH DIAMETER. MINIMUM CONNECTION SHALL BE TWO BOLTS OR THE EQUIVALENT WELDED CONNECTION. SEE SPECIFICATIONS FOR CONNECTION DESIGN REQUIREMENTS. ALL STEEL SHALL BE PRIMED IN THE SHOP WITH A RUST INHIBITIVE PRIMER AND RECEIVE FINISHED COATS OF PAINT IN ACCORDANCE WITH THE SPECIFICATIONS. STEEL ENCASED IN CONCRETE OR MASONRY SHALL BE FINISH COATED WITH COAL TAR EPOXY IN ACCORDANCE WITH THE SPECIFICATION PRIOR TO ENCASEING. AREAS OF STEEL THAT ARE TO BE COVERED BY LATER CONSTRUCTION (I.E. METAL DECK OVER A BEAM'S TOP FLANGE) SHALL BE PAINTED PRIOR TO THE APPLICATION OF THE LATER CONSTRUCTION (I.E. BEAM'S TOP FLANGE PAINTED BEFORE METAL DECK APPLIED). FIELD PAINT BOLTS AND ABRASIONS. WHERE GALVANIZING IS INDICATED ON THE DRAWINGS GALVANIZING SHALL BE HOT DIPPED IN ACCORDANCE WITH ASTM A123. ALL FIELD WELD AREAS ON GALVANIZED OR PAINTED STEEL SHALL BE CLEANED AND FIELD PAINTED WITH PRIMER AND PAINT, SEE SPECIFICATION.
  - OPEN WEB STEEL JOISTS AND BRIDGING SHALL CONFORM TO THE STANDARDS OF THE STEEL JOIST INSTITUTE. BRIDGING SHALL BE WELDED TO STEEL BEAMS AND ANCHORED TO MASONRY OR CONCRETE WALLS AT THE ENDS, U.N.O. JOISTS SHALL BE WELDED TO STEEL SUPPORTS PER SJI SPECIFICATIONS.
  - THE RESPONSIBILITY FOR ANY TEMPORARY SHORING OR BRACING DURING THE PROCESS OF REINFORCEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
  - STRUCTURAL STEEL MEMBERS SHALL NOT BE SPLICED OR HAVE PENETRATIONS UNLESS INDICATED ON THE STRUCTURAL CONTRACT DOCUMENTS OR AS REVIEWED BY THE STRUCTURAL ENGINEER.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENTLY ADOPTED INTERNATIONAL BUILDING CODE – NJ EDITION.
  - ERECTION DRAWINGS PREPARED BY FABRICATOR SHALL REPEAT IN A PROMINENT MANNER ALL FIELD NOTES & FIELD WELD DETAILS SHOWN ON DRAWINGS. ERECTION DRAWINGS SHALL SPECIFY ERECTION SEQUENCES WHEN APPLICABLE & ALL OTHER ERECTION REQUIREMENTS AS DEVELOPED BY FABRICATOR.
  - ALL STRUCTURAL STEEL COMPONENTS SHALL BE FABRICATED & SHOP ASSEMBLED TO THE MAXIMUM EXTENT POSSIBLE CONSISTENT WITH SHIPPING CONSIDERATIONS.
  - PROJECTING CORNERS, BURRS & SHARP EDGES SHALL BE GROUND SMOOTH.
- WELDING**
  - WELDED CONSTRUCTION SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE" D1.1; AWS D1.3-SHEET STEEL; AND AWS D1.4 "REINFORCING STEEL WELDING CODE".
  - ELECTRODES FOR FIELD AND SHOP WELDS OF STRUCTURAL STEEL SHALL BE E70XX, U.N.O.
  - ELECTRODES FOR WELDING OF REINFORCING STEEL SHALL BE E80XX.
  - ELECTRODES FOR WELDING OF SHEET STEEL SHALL CONFORM TO AWS D1.3.
  - WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1. FILLET WELDS NOT SPECIFIED AS TO LENGTH SHALL BE CONTINUOUS.
  - UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL GROOVE WELDS SHALL BE FULL PENETRATION.
  - ONLY LOW HYDROGEN ELECTRODES SHALL BE USED ON REINFORCING STEEL AND ASTM A992 STEEL.
  - PROVIDE FILLET WELDS AT ALL CONTACT JOINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS DETAILED OTHERWISE ON THE DRAWINGS.

### MISCELLANEOUS NOTES:

- THE DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS. DO NOT SCALE THE DRAWINGS. THE STRUCTURAL DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS AND DO NOT BY THEMSELVES PROVIDE ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT. PRINCIPAL OPENINGS, CURBS, AND SLAB DEPRESSIONS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECH'L, ELEC'L, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS, OTHER OPENINGS, AND SLAB DEPRESSIONS NOT SHOWN. THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, CURBS, AND SLAB DEPRESSIONS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. SIZE AND LOCATION OF OPENINGS SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH ANY WORK.
- THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCH'L, MECH'L, ELEC'L, PLUMBING, AND CIVIL DRAWINGS TO CONFIRM ALL REQUIREMENTS OF THE WORK. REPORT ANY CONFLICT/DISCREPANCY BETWEEN THE DISCIPLINES TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATING OR INSTALLING STRUCTURAL ELEMENTS. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
- THE HORIZONTAL AND VERTICAL DIMENSIONS OF EXISTING STRUCTURES SHALL BE VERIFIED BEFORE WORK IS BEGUN. ANY VARIATION BETWEEN DIMENSIONS SHOWN AND EXISTING DIMENSIONS SHALL BE REPORTED TO THE ARCHITECT.
- THE CONTRACTOR SHALL INSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT PUT ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT THE CONCRETE REACHES THE FULL DESIGN STRENGTH AND ALL FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE.
- ALL STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LOADS LISTED ONLY AS COMPLETED STRUCTURES. THE GENERAL CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT WORK IN PROGRESS UNTIL THE STRUCTURES ARE COMPLETED. THE GENERAL CONTRACTOR SHALL ALSO INSURE THAT ITS OPERATIONS AND PROCEDURES PROVIDE NO LOADING GREATER THAN THE DESIGN LOADS LISTED ON ANY MEMBER.
- ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.
- CONTRACTOR RESPONSIBLE FOR COORDINATING WITH ALL TRADES, DIVISIONS AND EXISTING CONDITIONS FOR ANY REQUIRED ACCESS ASSOCIATED WITH INSTALLATION OF SUPPLEMENTAL FRAMING, ADDITIONAL BRIDGING AND BRACING, SUPPORTS, AND CONNECTIONS, INCLUDING REMOVAL AND REINSTALLATION OF CEILINGS, WALLS, WIRING, DUCTWORK, PIPING, AND OTHER EXISTING CONSTRUCTION AS REQUIRED TO COMPLETE THE WORK.
- ANY DISTURBED WALL, FLOOR, ROOF, OR CEILING CONSTRUCTION, INCLUDING FRAMING FIREPROOFING INSULATION, FIRE-STOPPING, AND FIRE- OR SMOKE-RATED ASSEMBLIES, SHALL BE REPAIRED AND RESTORED TO MATCH EXISTING CONDITIONS AND MAINTAIN REQUIRED RATINGS. ALL SUCH WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS, ATTACHMENTS, AND RELATED WORK WITH ROOFING CONTRACTOR AS REQUIRED TO MAINTAIN ROOF WARRANTY.

### SPECIAL INSPECTION NOTES:

- SPECIAL INSPECTION BY A QUALIFIED INSPECTOR APPROVED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK:
  - FABRICATED STRUCTURAL STEEL
  - WELDING: STRUCTURAL STEEL

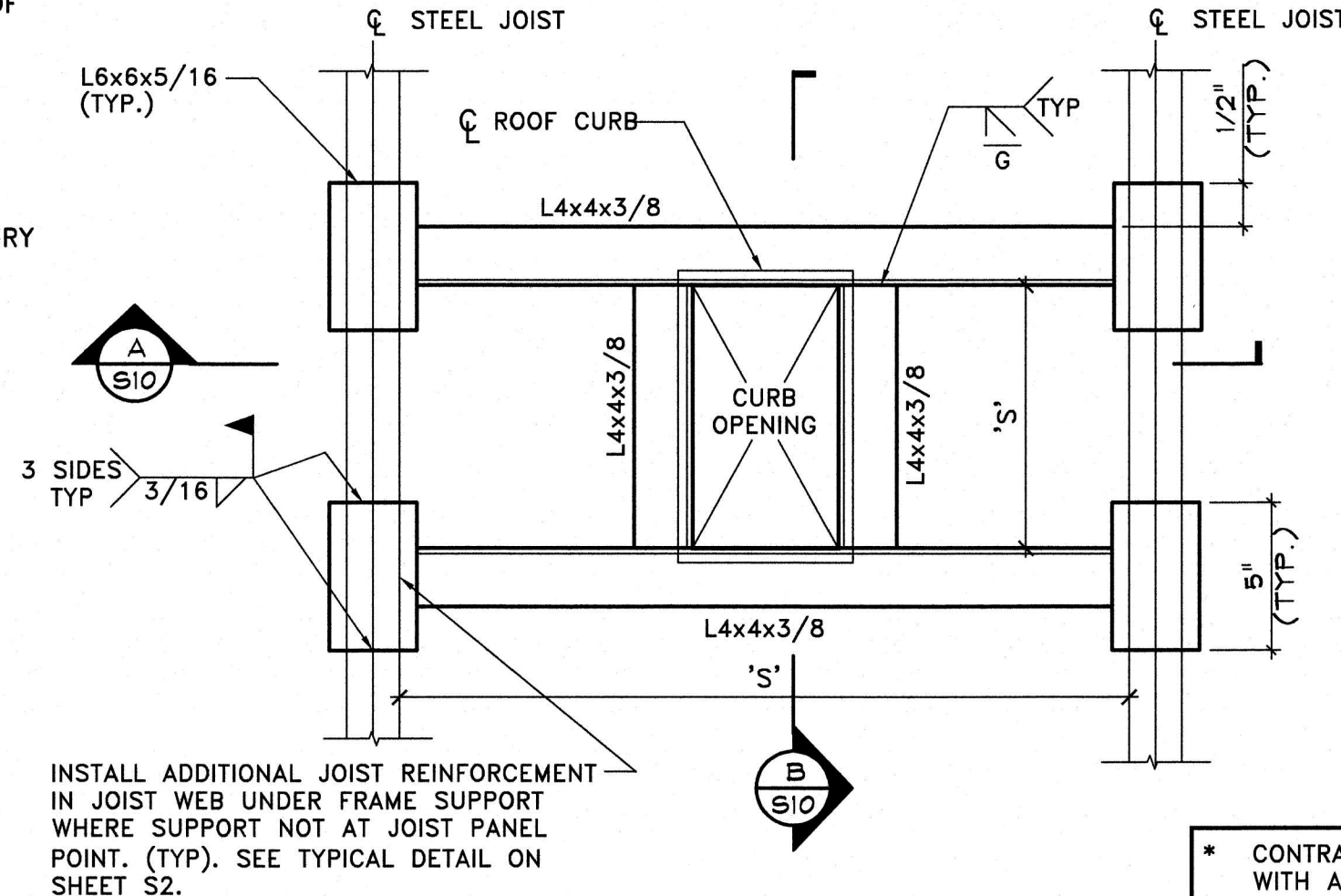
### DESIGN CRITERIA NOTES:

- THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.

INTERNATIONAL BUILDING CODE NEW JERSEY EDITION, 2021  
ASCE 7-16 – MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES  
AISC 360-16 – SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS  
AISC 305-16 – CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES  
ACI 318-14 – BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND MASONRY  
TMS 402/602-16 – SPECIFICATION OF MASONRY STRUCTURES

### SUBMITTAL AND SHOP DRAWING REQUIREMENT NOTES:

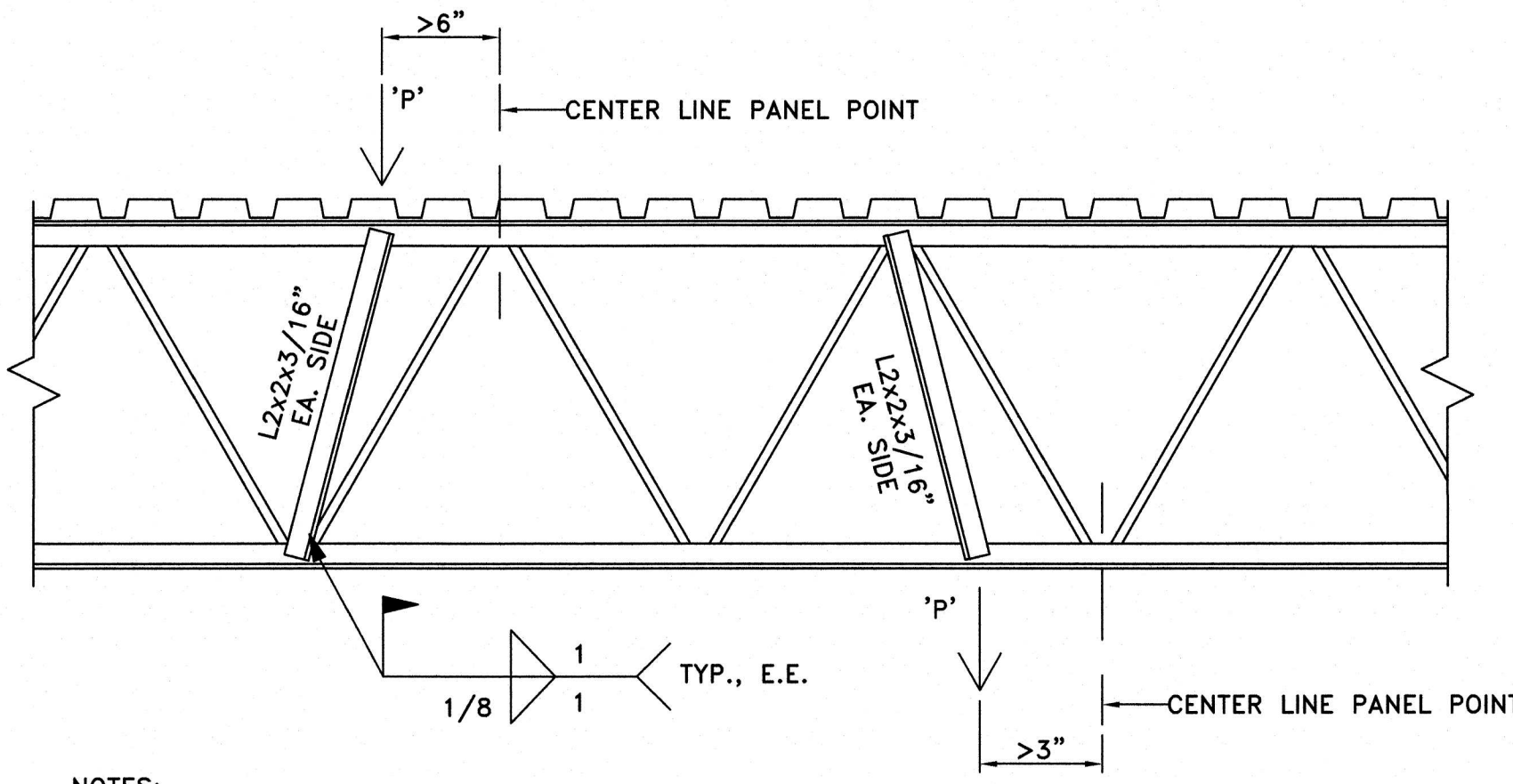
- THE CONTRACTOR SHALL SUBMIT FOR REVIEW BY THE ARCHITECT AND THE ENGINEER ALL INFORMATION REQUIRED BY THE CONTRACT DOCUMENTS INCLUDING THE SPECIFICATIONS.
- SHOP DRAWINGS SHALL BE PREPARED, SUBMITTED AND REVIEWED PRIOR TO PROCEEDING WITH FABRICATION AND/ OR INSTALLATION OF THE ASSOCIATED WORK. REVIEW PERIOD SHALL BE A MINIMUM OF TWO (2) WEEKS.
- REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RE-SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
- SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY.
- SHOP DRAWINGS SUBMITTED FOR REVIEW SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, DIMENSIONS, MATERIALS, AND SIMILAR DATA HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR'S REVIEW INCLUDES BUT IS NOT LIMITED TO VERIFICATION AND COORDINATION OF ACTUAL FIELD CONDITIONS, INCLUDING DIMENSIONS AND ELEVATIONS, AS WELL AS ACTUAL DIMENSIONS FOR SUPPORTS, ANCHORAGES, AND OPENINGS FOR THE ACTUAL EQUIPMENT PURCHASED.
- THE SHOP DRAWINGS SHALL INCLUDE DIMENSIONED FLOOR AND FLOOR EDGES, OPENINGS AND SLEEVES AT ALL FLOORS REQUIRED FOR ALL TRADES.



ANGLES SIZES SHALL BE:  
FOR 'S' < 2'-6" USE L3x3x1/4  
FOR 'S' < 4'-6" USE L4x4x3/8  
FOR 'S' > 4'-6" USE L6x4x3/8 (LLV)

### DETAIL 3 NOTES:

- CONTRACTOR SHALL VERIFY ALL OPENINGS AND EXACT LOCATIONS WITH TRADE CONTRACTOR AND SUBMIT SHOP DRAWINGS TO THE ENGINEER DEPICTING THE SIZE OF ROOF TOP EQUIPMENT CURB OPENINGS AND THE SUPPLEMENTAL FRAMING FRAME WITH APPROVED ROOF TOP EQUIPMENT AND EQUIPMENT ROOF CURB SUBMITTALS PRIOR TO ORDERING MATERIAL, FABRICATION AND ERECTION OF STEEL FRAME.
- FOR ATTACHMENT ROOF DECK TO SUPPLEMENTAL FRAMING SEE SHEET S2.
- PROVIDE STEEL FRAMING AS SHOWN AROUND ALL DUCT PENETRATIONS.
- WHERE ROOF STEEL SLOPES, CURB HEIGHTS MUST VARY TO PROVIDE LEVEL SURFACE.
- PROVIDE BRIDGING FOR ONE BAY ON BOTH SIDES OF OPENINGS WHEN BRIDGING IS INTERRUPTED.



### NOTES:

- INSTALL L2x2 STIFFENER ANGLES PER THIS DETAIL AT LOCATIONS WHERE CONCENTRATED LOADS >150 POUNDS ARE ATTACHED TO THE TOP OR BOTTOM CHORDS OF JOISTS AT LOCATIONS >3" TO THE CLOSEST ADJACENT PANEL POINT.
- INDIVIDUAL CONCENTRATED LOADS SHALL NOT EXCEED THE FOLLOWING:

| "K" SERIES JOIST DEPTH | MAX. PERMITTED CONC. LOAD |
|------------------------|---------------------------|
| 22" TO 26"             | 300#                      |
- NO MORE THAN TWO CONCENTRATED LOADS > MAX. LOAD AT "A"/3 MAY BE ATTACHED TO ANY ONE JOIST.
- CONCENTRATED LOADS > MAX. LOAD "A"/3 MUST BE LOCATED AT LEAST SPAN/3 APART.

### DETAIL 1 JOIST REINFORCEMENT FOR CONCENTRATED LOAD NOT AT JOIST PANEL POINTS (K SERIES JOISTS)

SCALE: N.T.S.

| MATERIAL THICKNESS OF THICKER PART JOINED (INCHES) | MINIMUM <sup>a</sup> SIZE OF FILLET WELD (INCHES) |
|----------------------------------------------------|---------------------------------------------------|
| TO 1/4 INCLUSIVE                                   | 1/8                                               |
| OVER 1/4 TO 1/2                                    | 3/16                                              |
| OVER 1/2 TO 3/4                                    | 1/4                                               |
| OVER 3/4                                           | 5/16                                              |

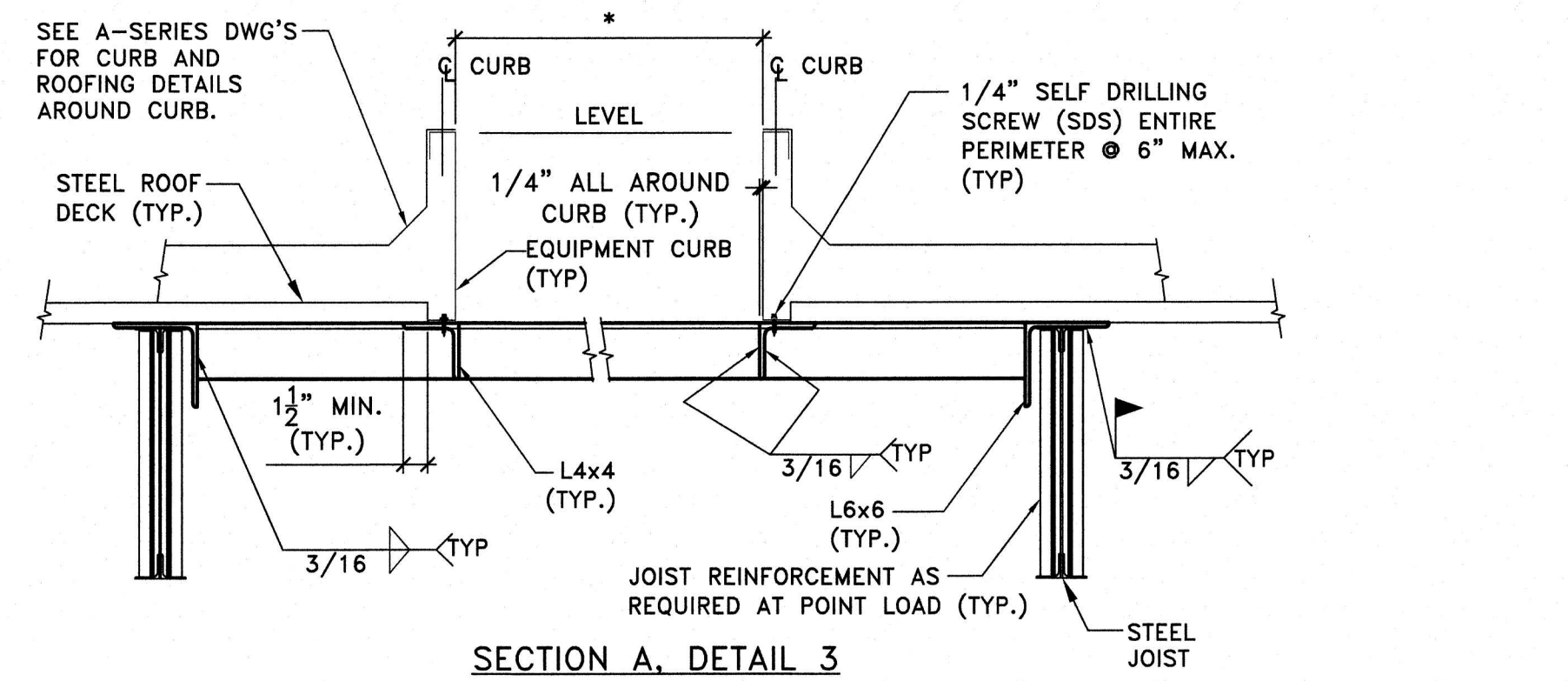
<sup>a</sup> LEG DIMENSION OF FILLET WELDS

**MINIMUM FILLET WELD SIZES<sup>b</sup>**

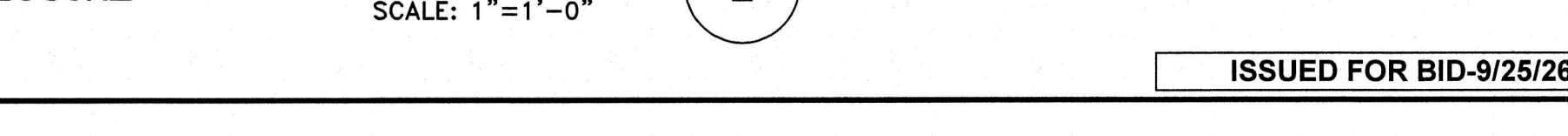
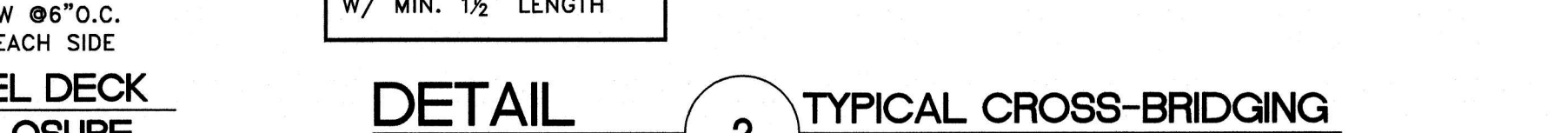
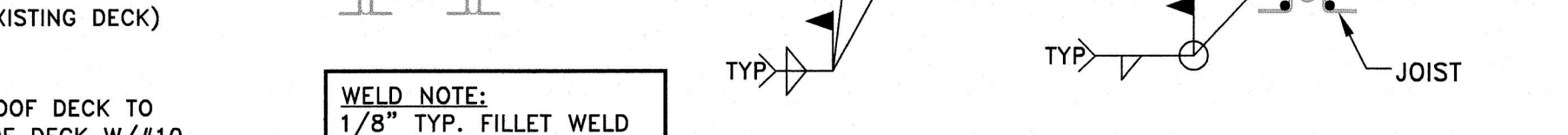
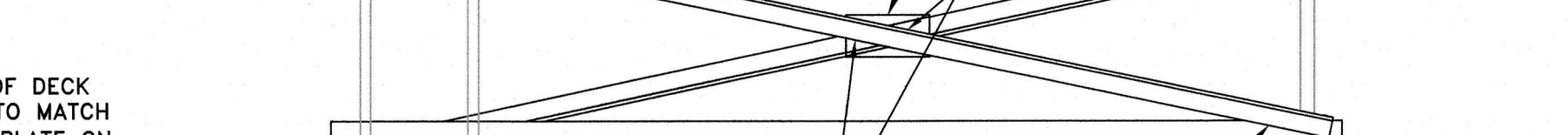
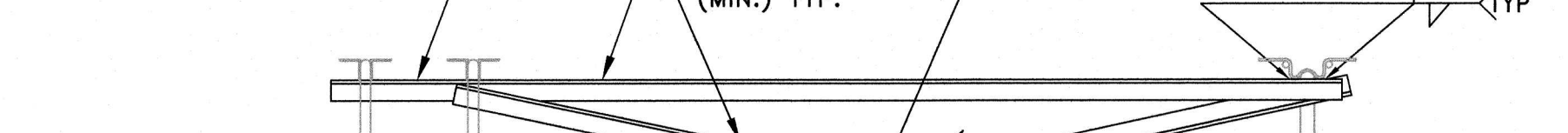
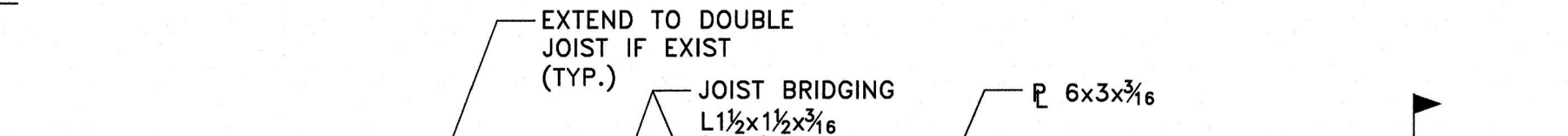
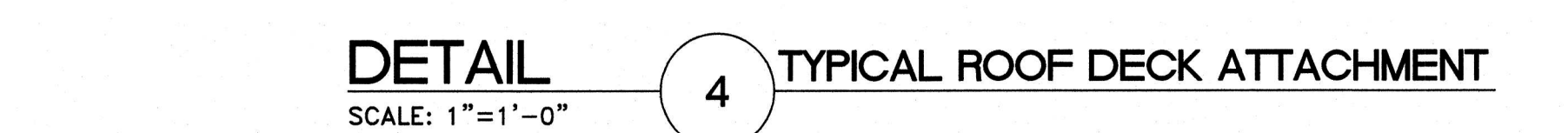
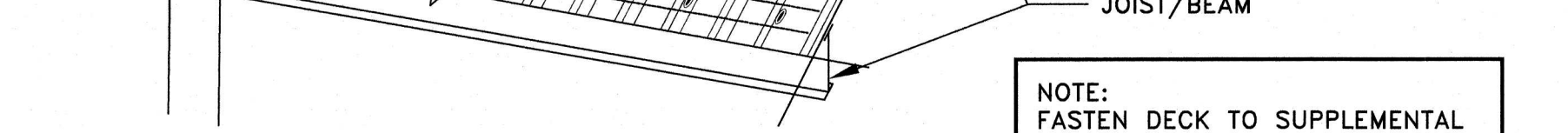
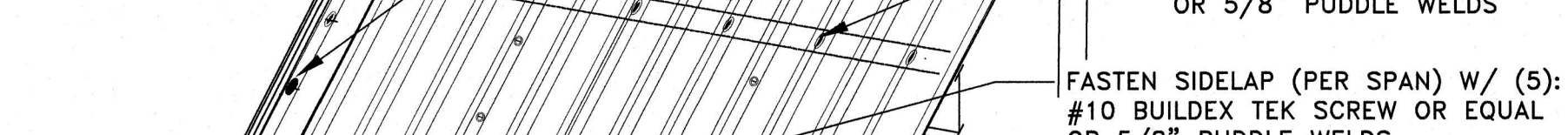
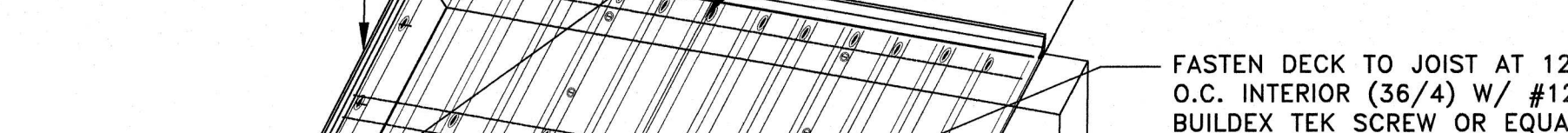
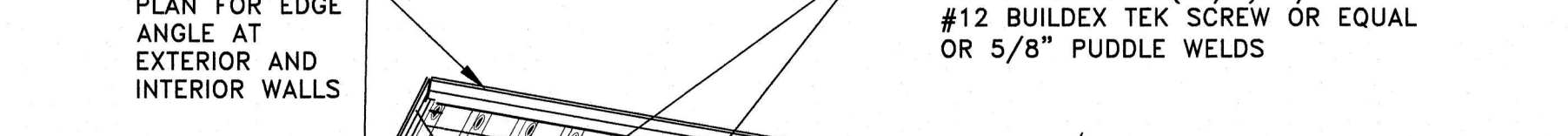
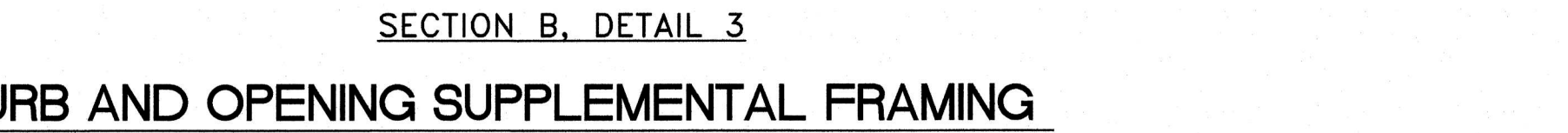
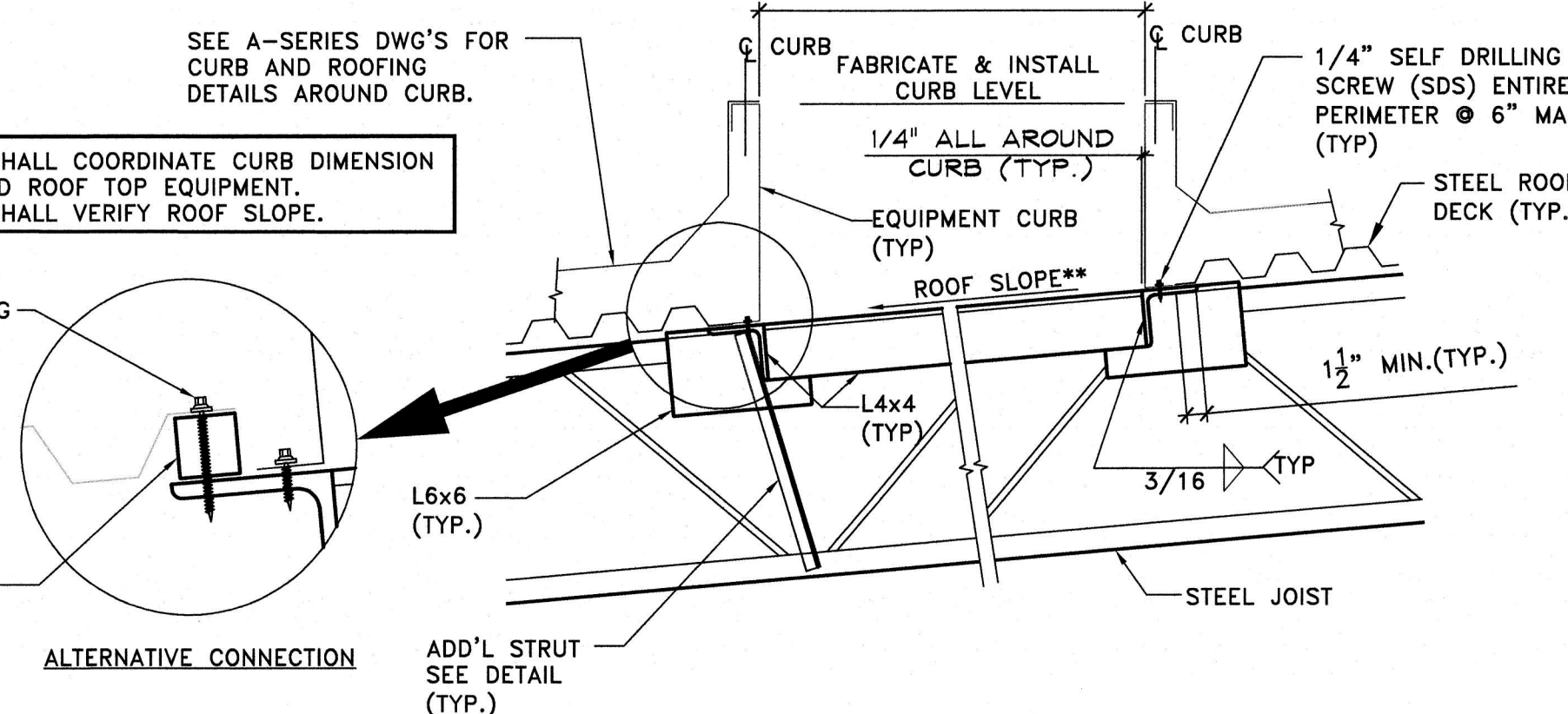
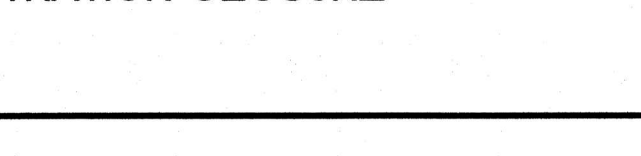
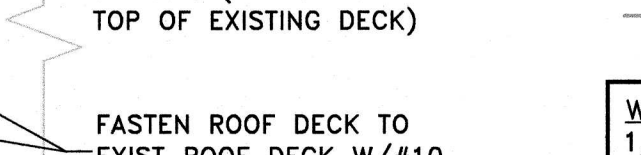
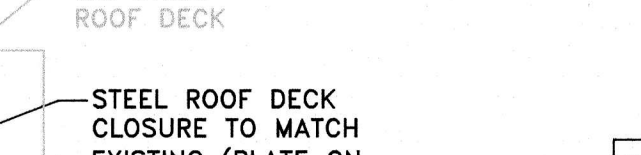
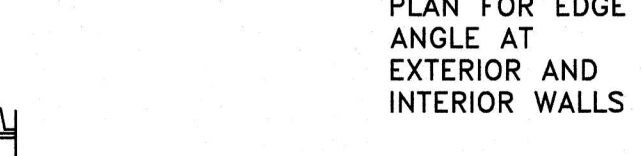
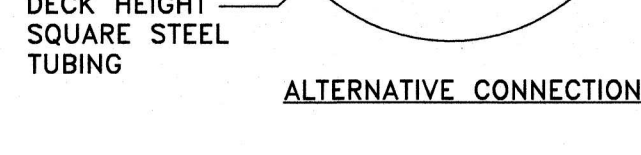
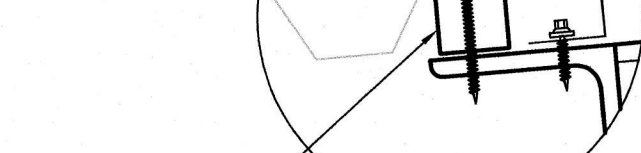
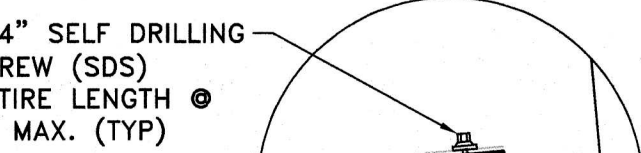
<sup>b</sup> USE OF SMALLER SIZE WELD REQUIRES PREHEAT IN ACCORDANCE WITH AWS D1.1

| NOMINAL BOLT DIAMETER (INCHES) | AT SHEARED EDGES | AT ROLLED EDGES OF PLATES, SHAPES OR BARS GAS CUT OR SAW CUT EDGES |
|--------------------------------|------------------|--------------------------------------------------------------------|
| 1/2                            | 7/8              | 3/8                                                                |
| 5/8                            | 1 1/8            | 7/8                                                                |
| 3/4                            | 1 1/4            | 1 1/8                                                              |
| 7/8                            | 1 1/2            | 1 1/4                                                              |
| 1                              | 1 3/4            | 1 1/2                                                              |
| 1 1/8                          | 2                | 1 5/8                                                              |
| 1 1/4                          | 2 1/4            | 1 3/4                                                              |
| OVER 1 1/4                     | 1 3/4 x DIA.     | 1 1/4 x DIA.                                                       |

**MINIMUM BOLT EDGE DISTANCES**  
CENTER OF HOLE TO EDGE - INCHES



\* CONTRACTOR SHALL COORDINATE CURB DIMENSION WITH APPROVED ROOF TOP EQUIPMENT.  
\*\* CONTRACTOR SHALL VERIFY ROOF SLOPE.



APPROVED

9-23-26

William R. Long

PROFESSIONAL ENGINEER

NEW JERSEY LICENSE NO. 33012

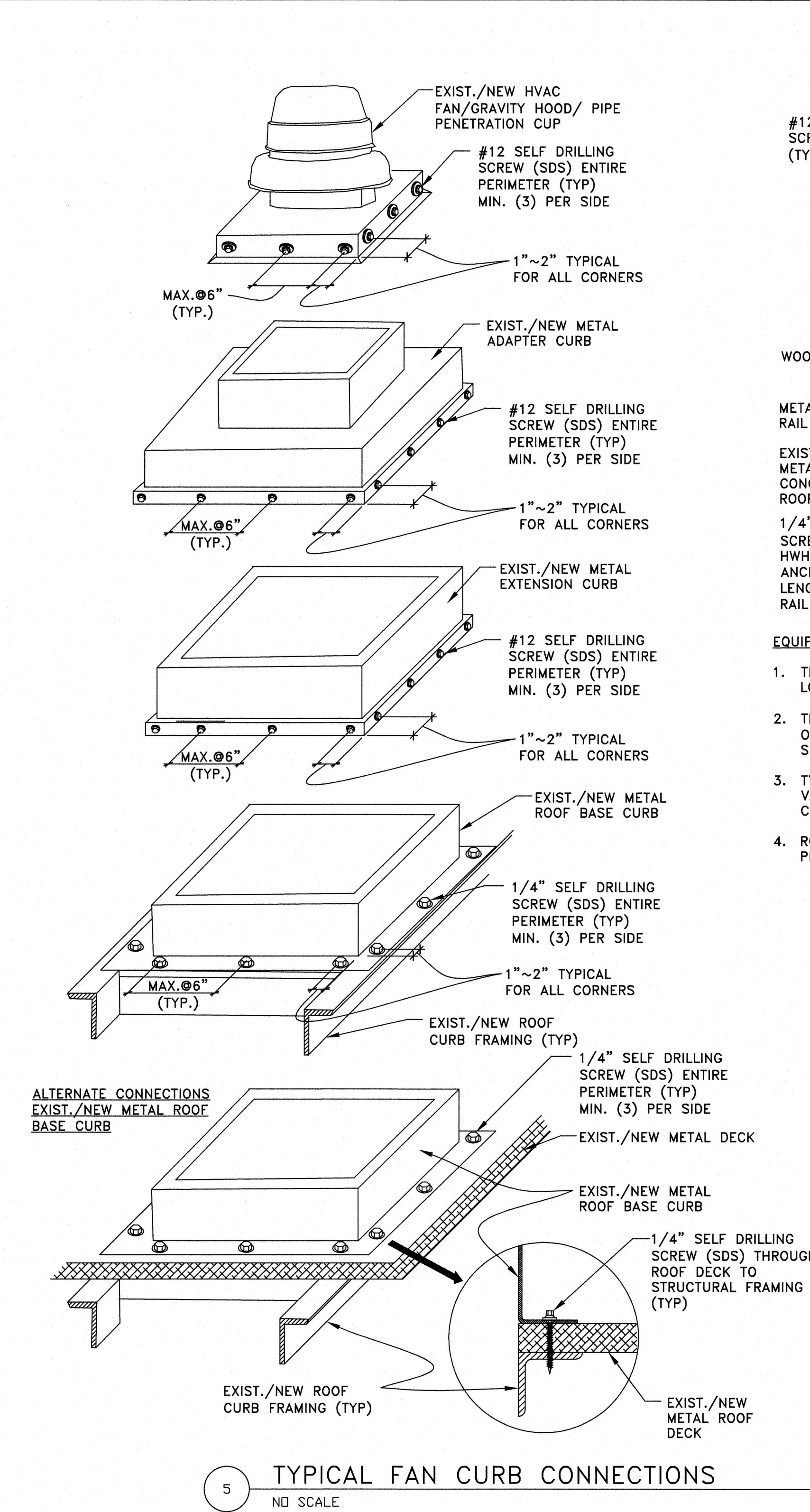
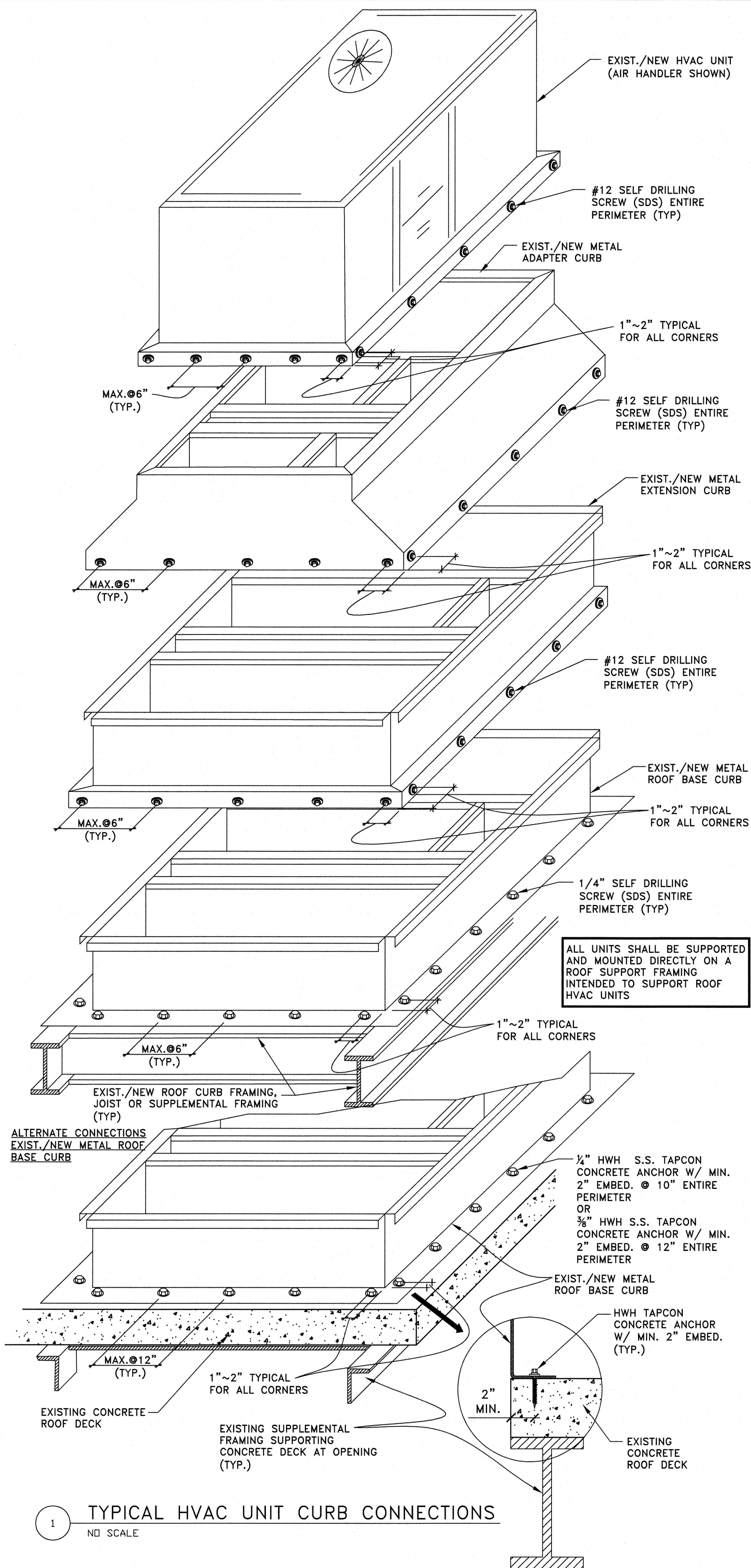
APPROVED

Anita S. Aradhya

REGISTERED ARCHITECT

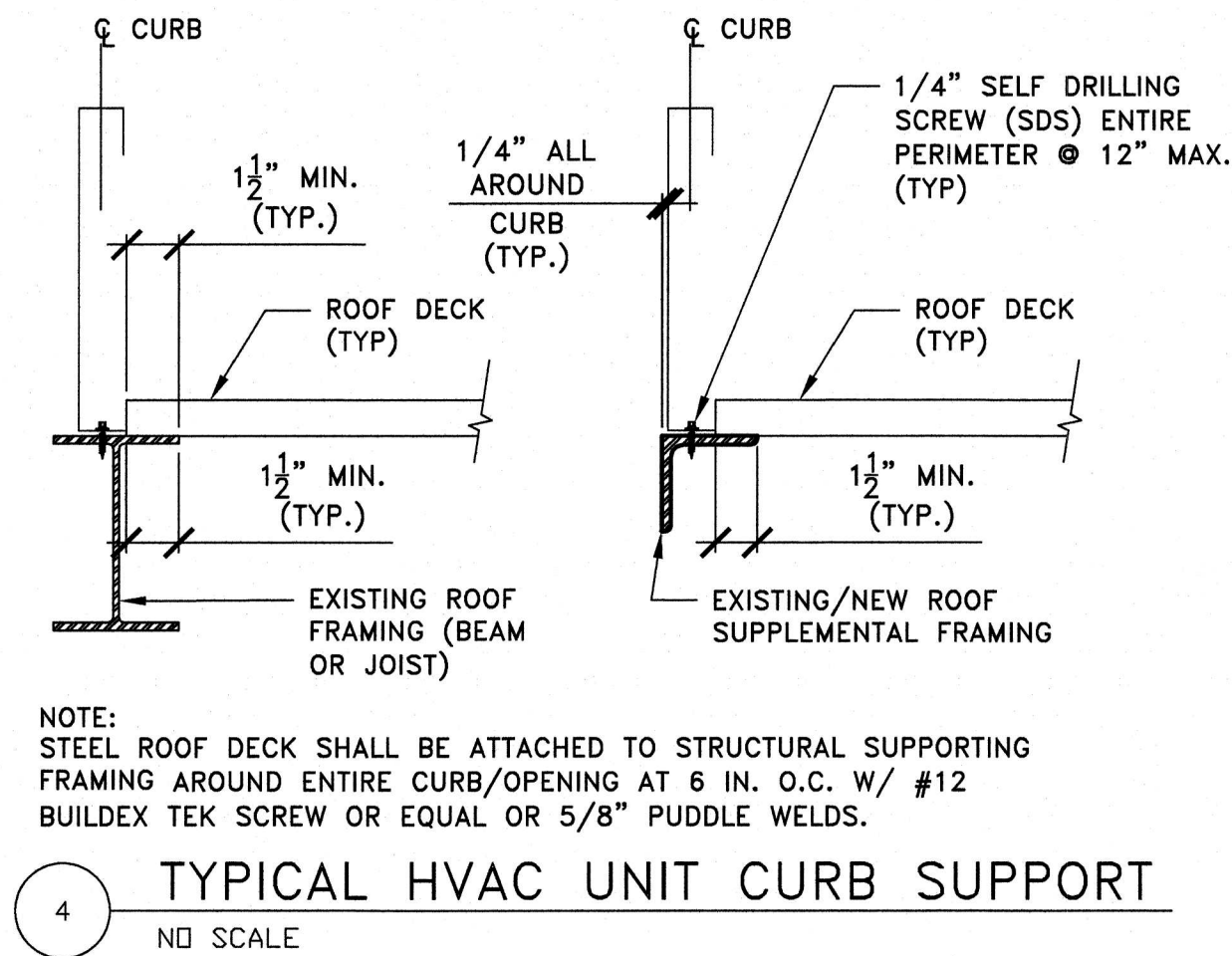
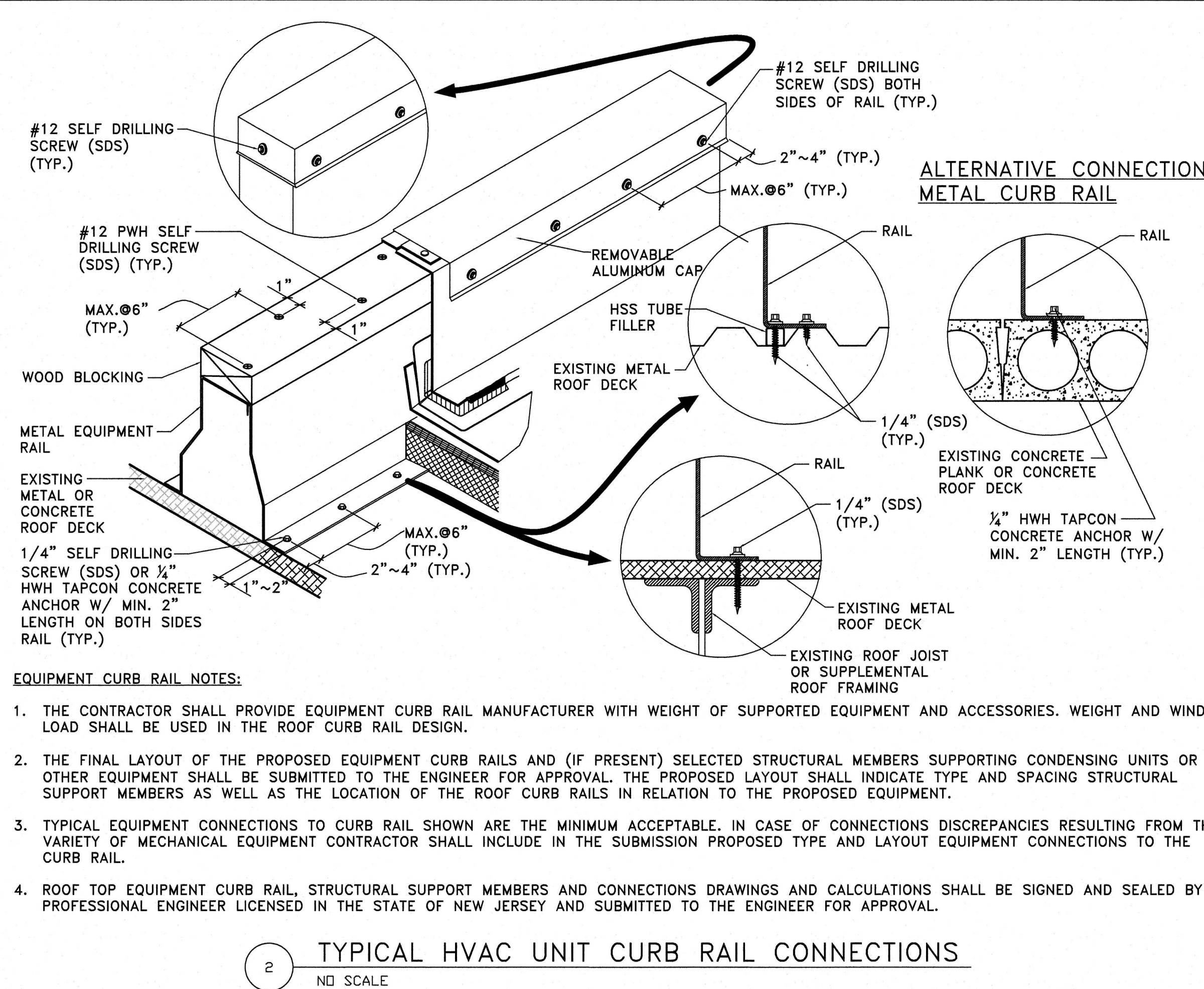


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#### GENERAL ROOF TOP EQUIPMENT SUPPORTS NOTES:

1. CONTRACTOR SHALL PROVIDE EQUIPMENT CURB MANUFACTURER WITH WEIGHT OF SUPPORTED EQUIPMENT AND ACCESSORIES. WEIGHT AND WIND LOAD SHALL BE USED IN THE ROOF CURB DESIGN.
2. ROOF TOP EQUIPMENT CURB DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW JERSEY AND SUBMITTED TO THE ENGINEER FOR APPROVAL. PRIOR TO MANUFACTURING ANY CURB AND ORDERING ANY MATERIAL, CONTRACTOR SHALL SUBMIT EXISTING ROOF STRUCTURE INCLUDING THE LAYOUT AND TYPE OF THE EXISTING FRAMING SUPPORTING THE ROOF TOP UNIT.
3. CONTRACTOR SHALL PROVIDE EQUIPMENT CURB MANUFACTURER WITH CORRECT CURB DIMENSIONS TO ENSURE PROPER FIT AND SUPPORT OF APPROVED ROOF TOP EQUIPMENT.
4. ALL EXISTING/NEW ROOF TOP EQUIPMENT CONNECTIONS TO THE ROOF STRUCTURE (INCLUDING EQUIPMENT TO THE CURB, ADAPTER AND/OR EXTENSION AND EXTENSION OR ADAPTER TO THE CURB AND CURB TO THE ROOF FRAMING OR ROOF DECK) SHALL HAVE SCREWS INSTALLED WHERE THERE ARE NO SCREWS OR WHERE EXISTING SCREWS DO NOT MATCH MINIMUM QUANTITY, SPACING OR MINIMUM LENGTH SHOWN ON DRAWINGS.
5. IF THE ROOF TOP EQUIPMENT CONNECTION DETAILS SHOWN IN THE CONTRACT DRAWINGS DO NOT MATCH EXISTING CONDITIONS, CONTRACTOR SHALL NOTIFY THE ENGINEER FOR ADDITIONAL CONNECTION DETAILS.
6. FOR LOCATIONS OF ROOF TOP EQUIPMENT, SEE H-SERIES DRAWINGS.
7. ALL SCREWS SHALL BE HEX WASHER HEAD (HWH) SELF DRILLING SCREWS (SDS) UNLESS SHOWN ON THE DRAWINGS.
8. ALL SCREWS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL HWH SDS WITH RUBBER SEAL, HWH KWIK-SEAL BY HILTI OR EQUAL.
9. LENGTH OF SCREW SHALL EXTEND A MINIMUM OF THREE SCREW THREADS A BEYOND BASE MATERIAL.
10. ALL EMPTY SCREW HOLES SHALL BE FILLED WITH SCREWS.
11. INSTALLATION SCREWS SHALL BE MADE WITH PRE-DRILL 3/16" DIA. FOR 1/4" SCREW AND 5/32" DIA. FOR #12 SCREW.
12. FOR INFORMATION NOT SHOWN (INCLUDING BUT NOT LIMITED TO INSULATION, SEALANT, FLASHING, ROOF MEMBRANE, ETC.) SEE A-SERIES DRAWING.



|                                                                                                 |  |                                                                                      |  |    |      |           |                                           |           |             |          |            |            |             |                    |                            |                                                   |           |
|-------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------|--|----|------|-----------|-------------------------------------------|-----------|-------------|----------|------------|------------|-------------|--------------------|----------------------------|---------------------------------------------------|-----------|
| APPROVED<br>9.23.26<br>William R. Long<br>PROFESSIONAL ENGINEER<br>NEW JERSEY LICENSE NO. 38012 |  | APPROVED<br>Anita S. Aradhya<br>REGISTERED ARCHITECT<br>NEW JERSEY LICENSE NO. 18769 |  | BY | DATE | REVISIONS | GROUP                                     | DATE      | DESIGNED BY | DRAWN BY | CHECKED BY | DEPT. HEAD | PROJECT NO. | PROJECT LOCATION   | CLIENT                     | KENNEDY CENTER<br>RENOVATION TO THE SENIOR CENTER | SHEET     |
|                                                                                                 |  |                                                                                      |  |    |      |           | Tri-State Architects, P.C. / Alaimo Group | AUG. 2026 | PG          | PG       | PG         | PG         | PG          | M-0410-0011-000    | WILLINGBORO TWP.           | WILLINGBORO TOWNSHIP                              | S11       |
|                                                                                                 |  |                                                                                      |  |    |      |           | WILLIAM R. LONG, P.E.                     |           |             |          |            |            |             | WILLINGBORO TWP.   | STRUCTURAL TYPICAL DETAILS |                                                   | FILE NO.: |
|                                                                                                 |  |                                                                                      |  |    |      |           | ANITA S. ARADHYA, R.A.                    |           |             |          |            |            |             | WILLINGBORO COUNTY | SCALE: AS NOTED            |                                                   |           |
|                                                                                                 |  |                                                                                      |  |    |      |           | MOUNT HOLLY, N.J.                         |           |             |          |            |            |             | BID#8-2026         |                            |                                                   |           |
|                                                                                                 |  |                                                                                      |  |    |      |           | 200 HIGH STREET                           |           |             |          |            |            |             |                    |                            |                                                   |           |
|                                                                                                 |  |                                                                                      |  |    |      |           | LIC. 33012                                |           |             |          |            |            |             |                    |                            |                                                   |           |
|                                                                                                 |  |                                                                                      |  |    |      |           | LIC. 18769                                |           |             |          |            |            |             |                    |                            |                                                   |           |

ISSUED FOR BID-9/25/26