

DESIGN CRITERIA

THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION. REFERENCE TO OTHER STANDARD SPECIFICATIONS OR CODES SHALL MEAN THE LATEST PUBLICATION.

FOUNDATIONS ARE DESIGNED FOR AN ASSUMED ALLOWABLE BEARING PRESSURE OF 2,000 PSF.

SUPERIMPOSED LIVE LOADS:  
ROOFS AND CANOPIES: (REDUCIBLE)..... 20 PSF

WIND LOADS:	
ULTIMATE WIND SPEED .....	136 MPH
NOMINAL WIND SPEED .....	121 MPH
MEAN ROOF HEIGHT .....	19 FT
RISK CATEGORY .....	II
WIND EXPOSURE .....	C
ENCLOSURE CLASSIFICATION .....	ENCLOSED
INTERNAL PRESSURE COEFFICIENT .....	± 0.18
DIRECTIONALITY FACTOR (K <sub>d</sub> ) .....	0.85
SHAPE FACTORS .....	PER CODE

THIS BUILDING IS LOCATED IN THE WIND BORNE DEBRIS REGION. IMPACT RESISTANCE GLAZING IS REQUIRED.

CONCRETE

ALL CONCRETE PROPORTIONING, MIXING, TRANSPORTATION, PLACING, AND CURING SHALL CONFORM TO ACI 301.

ALL CONCRETE SHALL BE LABORATORY DESIGNED AND CONTROLLED TO MEET THE REQUIREMENTS OF ACI 318 AND THE PROJECT'S DESIGN BUILDING CODE.

USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IS CONCRETE IS PROHIBITED.

EC @ 28 DAYS	TYPE AGGREGATE	LOCATION	W/C RATIO (MAX)
4,000	NORMAL WEIGHT	SLAB-ON-GRADE	0.50
4,000	NORMAL WEIGHT	WALLS	0.55
3,000	NORMAL WEIGHT	FOOTINGS	0.55
3,000	NORMAL WEIGHT	ALL OTHER CONCRETE	0.55

THE AIR CONTENT IN ALL CONCRETE EXPOSED TO WEATHER SHALL BE BETWEEN 1% & 4%.

CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS NOTED BELOW, OR PER LATEST ACI 318 FOR CONDITIONS OTHER THAN THOSE LISTED:

CONCRETE CAST AGAINST EARTH.....	3"
BEAMS AND COLUMNS .....	1 1/2"
SLABS ON GRADE .....	2" FROM TOP
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER .....	2"
SLABS & WALLS NOT EXPOSED TO EARTH OR WEATHER.....	1"

CHAMFER ALL EXPOSED CORNER 3/4" MINIMUM.

ALL HOOKS CALLED FOR IN STRUCTURAL DRAWINGS SHALL BE ACI STANDARD HOOKS, UNO.

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 UNO.

ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A185, LAP TWO SQUARES AT SPLICES.

DO NOT WELD REINFORCING STEEL UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

THE ALL REINFORCING STEEL AND EMBEDS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. THE CONTRACTOR SHALL PROVIDE SUPPORTS TO MAINTAIN THE REQUIRED REINFORCING POSITION. "WET STICKING" DOWELS INTO CONCRETE IS NOT PERMITTED.

THE CONTRACTOR SHALL COMPARE THE STRUCTURAL PLANS AND DETAILS WITH THE ARCHITECTURAL PLANS AND DETAILS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF SHOP DRAWINGS.

THE CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF 1% OF TOTAL REINFORCING STEEL FOR THE PROJECT TO BE FABRICATED AND PLACED DURING CONSTRUCTION AT THE DIRECTION OF THE STRUCTURAL ENGINEER. IN ADDITION TO THE REINFORCING STEEL REQUIRED BY THE STRUCTURAL DRAWINGS, THE OWNER SHALL RECEIVE CREDIT FOR ANY UNUSED QUANTITY AT THE END OF THE PROJECT.

ALL REINFORCING SHALL HAVE AN ACI CLASS B SPLICE AT BAR LAPS.

METAL DECK

UNLESS NOTED OTHERWISE ON PLANS, THE METAL DECK SHALL BE GALVANIZED (G60 MINIMUM) CONFORMING TO THE STEEL DECK INSTITUTES SPECIFICATIONS, LATEST EDITION.

SEE STRUCTURAL DRAWINGS FOR METAL DECK TYPE AND GAGE.

THE HANGING OF ANY LOADS INCLUDING MECHANICAL EQUIPMENT FROM THE ROOF DECK IS PROHIBITED.

ALL METAL DECK SHALL BE FASTENED TO THE STEEL SUPPORTS AT END OF PANEL AND AT ALL INTERMEDIATE SUPPORTS PER DETAIL 8/S2.2 .

DECKING SHALL BE CONTINUOUS OVER 3 SPANS MINIMUM WHERE ALLOWABLE WITH SUPPORTING STRUCTURE.

TOUCH UP ALL AREAS DAMAGED DURING INSTALLATION WITH REPAIR PAINT MATCHING THE SHOP COAT.

STEEL JOIST

ALL OPEN WEB JOIST AND JOIST GIRDERS SHALL BE FABRICATED, FURNISHED, AND ERECTED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTES STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS, LATEST EDITION.

THE DESIGN OF ALL STEEL JOIST AND JOIST GIRDERS SHALL BE BY THE MANUFACTURER'S ENGINEER. ALL JOIST AND JOIST GIRDERS ALONG WITH THE BRIDGING SHALL BE DESIGNED FOR THE GRAVITY LOADS OF THE PROJECT IN ADDITION TO THE WIND LOADS SHOWN ON THE STRUCTURAL DRAWINGS. A DEAD LOAD OF 10 PSF MAY BE USED FOR NET UPLIFT CALCULATIONS.

K SERIES JOISTS SHALL BEAR A MINIMUM OF 2 1/2" OVER STEEL SUPPORTS. LH SERIES JOISTS SHALL BEAR A MINIMUM OF 4" OVER STEEL SUPPORTS. BEARING PLATES AND ANGLES SHALL BE ADJUSTED TO PROVIDE LEVEL BEARING ON SUPPORT SURFACE.

SHOP DRAWINGS SHALL BE SUBMITTED COMPLETELY DETAILING THE JOISTS FOR ERECTION. INCLUDE ALL BRIDGING AND CONNECTIONS. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED, SEALED, AND DATED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

PROVIDE A SHOP COAT OF STANDARD PRIMER PAINT. COLOR TO BE SPECIFIED BY THE ARCHITECT OR OWNER. PRIMER TO BE COMPATIBLE WITH FINISH COAT WHERE APPLICABLE. TOUCH UP DAMAGED AREAS WITH SAME PAINT USED FOR SHOP COAT.

FOUNDATIONS

A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT SHALL INSPECT AND ASSURE THE ADEQUACY OF ALL SUBGRADES, FILLS, AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, ETC. WRITTEN ACCEPTANCE OF THE WORK INSPECTED AND VERIFICATION OF ASSUMED SOIL BEARING PRESSURE SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER.

WHERE FOOTING STEPS ARE REQUIRED, THE STEPS SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL, UNO ON PLAN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE REQUIRED FOOTING STEP LOCATIONS.

STEEL

ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

ASTM A992 FOR W SHAPES
ASTM A36 FOR PLATES, ANGLES, & MISC FRAMING
ASTM A588, GRADE 50, WHERE NOTED
ASTM A501 OR A53 FOR PIPE
ASTM A500, GRADE B FOR TUBES

HEADED STUDS SHALL COMPLY WITH ASTM A108 AND SHALL BE AUTOMATICALLY END WELDED PER MANUFACTURERS RECOMMENDATIONS.

ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, UNO.

ALL CONNECTION BOLTS SHALL CONFORM TO ASTM A325.

WELDING OF STRUCTURAL STEEL SHALL BE PER AWS D1.1, LATEST EDITION.

WHERE FILLET WELD SIZE ISN'T CALLED-OUT ON WELD SYMBOL, FILLET SIZE SHALL BE 1/16" SMALLER THAN THE THICKNESS OF THE THINNER OF THE ELEMENTS TO BE WELDED.

UNLESS NOTED OTHERWISE PROVIDE THE GREATER OF THE FOLLOWING BEAM-END CONNECTIONS:

1) MINIMUM 5/16" DOUBLE ANGLE SHEAR CONNECTION, FULL DEPTH OF THE BEAM, WELDED OR BOLTED WITH VERTICAL BOLT SPACING OF 3".

2) WHERE BEAM REACTIONS ARE SHOWN, CONNECTIONS SHALL DEVELOP THE REACTION GIVEN.

3) WHEN BEAM REACTIONS ARE NOT SHOWN, CONNECTIONS SHALL BE PROPORTIONED TO SUPPORT 60% OF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE UNIFORM LOAD TABLES OF THE AISC MANUAL FOR THE GIVEN BEAM, SPAN, AND GRADE OF STEEL USED. FOR COMPOSITE BEAMS THE PROPORTION CONNECTIONS FOR 90% OF THE UNIFORM LOAD CAPACITY.

4) CONNECTIONS SHALL BE PROPORTIONED FOR THE ECCENTRICITY BETWEEN CENTROIDS OF THE CONNECTION AND THE SUPPORTING MEMBER.

STRUCTURAL STEEL SHALL BE SHOP PRIMED PER SSPC PAINT SYSTEM NO. 7.00. PRIMER SHALL BE SSPC PAINT WYVERN DRY FILM THICKNESS OF 2.0 MILS. OMIT PAINT AT SURFACES TO BE FIREPROOFED. TOUCH-UP BOLT HEADS, NUTS, FIELD WELDS, AND ABRASIONS IN SHOP PRIMER WITH SAME PAINT.

ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED.

IF ANY DISCREPANCIES BETWEEN SPECIFICATIONS, NOTES, AND DRAWINGS ARE NOTED, THE MORE STRINGENT REQUIREMENT GOVERNS.

COLUMN ANCHOR BOLTS ARE DESIGNED FOR COMPLETE CONDITION ONLY. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING REQUIRED TO MAINTAIN STABILITY UNTIL ALL BRACING ELEMENTS REQUIRED FOR STRUCTURAL STABILITY ARE IN PLACE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF MISC STEEL SHOWN ON THE STRUCTURAL DRAWINGS SUCH AS SHELF ANGLES, LINTELS, SUPPORT MEMBERS FOR CURTAIN WALL OR MASONRY AND EDGE ANGLES FOR OPENINGS AND PERIMETER CONDITIONS. IT IS THE INTENT OF THESE DRAWINGS THAT THESE ITEMS ARE FIELD ATTACHED BY FIELD WELDING OR FIELD BOLTING TO MEET TOLERANCES REQUIRED BY THE OTHER TRADES, THESE TOLERANCES MAY BE MORE STRINGENT THAN AISC TOLERANCES.

THE CONTRACTOR SHALL COMPARE THE STRUCTURAL PLANS AND DETAILS WITH THE ARCHITECTURAL PLANS AND DETAILS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF SHOP DRAWINGS.

THE CONTRACTOR SHALL PROVIDE AN ALLOWANCE OF 1% OF TOTAL STRUCTURAL STEEL FOR THE PROJECT TO BE FABRICATED AND INSTALLED DURING CONSTRUCTION AS DIRECTED BY THE STRUCTURAL ENGINEER IN ADDITION TO THE STRUCTURAL STEEL REQUIRED BY THE CONSTRUCTION DRAWINGS. THE OWNER SHALL RECEIVE CREDIT FOR ANY UNUSED QUANTITY AT THE COMPLETION OF THE PROJECT.

TILT-UP WALL PANEL NOTES

DESIGN AND DETAILING OF ALL TILT-UP WALL PANELS SHALL BE PROVIDED BY DELEGATED SPECIALTY ENGINEER.

SIGNED AND SEALED SHOP DRAWINGS OF ALL TILT-UP SHALL BE SUBMITTED TO EOR FOR REVIEW. SHOP DRAWINGS SHALL SPECIFY ALL PANEL THICKNESS, DIMENSIONS, REINFORCING, EMBEDS, HOLDDOWNS, DOWELS, AND JOINT LOCATIONS.

DEFERRED SUBMITTALS

THE FOLLOWING ITEMS ARE CONSIDERED DEFERRED SUBMITTALS AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD:

1. PRE-ENGINEERED TRUSS SYSTEM
2. METAL FABRICATIONS & STEEL CONNECTIONS
3. ROOF TOP EQUIPMENT AND ANCHORAGES
4. STRUCTURAL STEEL CONNECTIONS
5. TILT-UP CONCRETE PANELS
6. TILT-UP PANEL STEEL EMBEDS

ALL DEFERRED DESIGN SUBMITTALS, SHOP DRAWINGS AND CALCULATIONS PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

DEFERRED SUBMITTALS NOT LISTED WILL NOT BE REVIEWED BY THE ENGINEER OF RECORD AND SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.

SUPPLEMENTARY NOTES

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION, BRACING, SHORING, TEMPORARY SUPPORTS, ETC. THE STRUCTURAL ELEMENTS ARE NOT CONSIDERED STABLE UNTIL THE STRUCTURE IS COMPLETE.

REVIEW OF THE SUBMITTAL INFORMATION SHALL BE FOR GENERAL REQUIREMENTS OF THE PROJECT, AND SHALL NOT INCLUDE CHECKING OF DETAILED DIMENSIONS OR DETAILED QUANTITIES. NOR REVIEW OF THE CONTRACTOR'S SAFETY MEASURES ON OF OFF THE WORKSITE OR THE MEANS AND METHODS OF DOING ANY WORK.

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND ARCHITECTURAL AND STRUCTURAL PLAN DIMENSIONS AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS.

ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

GENERAL CONTRACTOR MUST REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER. SUBMITTALS WHICH DO NOT CONTAIN THE CONTRACTOR'S SHOP DRAWING STAMP OR HAVE BEEN MERELY "RUBBER STAMPED" SHALL BE RETURNED WITHOUT REVIEW. CONTRACTOR SHOULD ALLOW TWO WEEKS FOR SUBMITTAL REVIEW.

CONTRACTOR SHALL NOT ORDER MATERIAL OR COMMENCE WITH CONSTRUCTION UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED. WORK DONE OR ORDERS PLACED BEFORE SHOP DRAWING APPROVAL IS AT THE CONTRACTOR'S RISK.

THE PROJECT'S STRUCTURAL DRAWINGS AND ELECTRONIC FILES ARE THE PROPERTY OF LOWE STRUCTURES, INC. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPENSATE LOWE STRUCTURES, INC. FOR THE USE OF THE PROJECT'S CAD FILES FOR ANY PURPOSE INCLUDING SHOP DRAWING PREPARATION.

THE CONTRACTOR SHALL NOT SCALE DRAWINGS. DIMENSIONS SHOWN ON ARCHITECTURAL AND STRUCTURAL PLANS AND DETAILS WILL CONTROL.

POST INSTALLED ANCHORS

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE EOR PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE EOR ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE EVALUATION REPORT.

CONCRETE ANCHORS

- **MECHANICAL ANCHORS:** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.2 AND ICC-ES AC108 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE :
  - SIMPSON STRONG TIE "TITEN-HD"
  - SIMPSON STRONG TIE "TITEN"
  - SIMPSON STRONG TIE "TORQ-CUT"
  - HILTI KWIK BOLT 3"
  - DEWALT "SCREW-BOLT +"
- **ADHESIVE ANCHORS:** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE :
  - HILTI "HY 200-A"
  - SIMPSON "SET-XP"
  - SIMPSON "SET-3G"
  - DEWALT "PURE 1104"
- **POWDER AND GAS ACTUATED FASTENERS:** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED MECHANICAL ANCHORS INCLUDE :
  - SIMPSON STRONG TIE "POWER DRIVEN FASTENERS"
  - SIMPSON STRONG TIE "GAS ACTUATED FASTENERS"

MASONRY ANCHORS

- **MECHANICAL ANCHORS:** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106. PRE-APPROVED MECHANICAL ANCHORS INCLUDE :
  - SIMPSON STRONG TIE "TITEN-HD"
  - SIMPSON STRONG TIE "TITEN"
  - BULDEX "TAPCON"
  - HILTI KWIK BOLT 3"
  - DEWALT "SCREW-BOLT +"
- **ADHESIVE ANCHORS:** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC08. PRE-APPROVED ADHESIVE ANCHORS INCLUDE :
  - HILTI "HY 270"
  - SIMPSON "SET-XP"
  - SIMPSON "200-A"
  - DEWALT "AC100+ GOLD"

ANCHORS INSTALLED IN CONCRETE MASONRY SHALL BE INSTALLED INTO SOLID GROUTED CONCRETE MASONRY.

ADHESIVE ANCHORS SHALL BE INSTALLED WITH 12 BAR DIAMETER EMBEDMENT MINIMUM UNO.

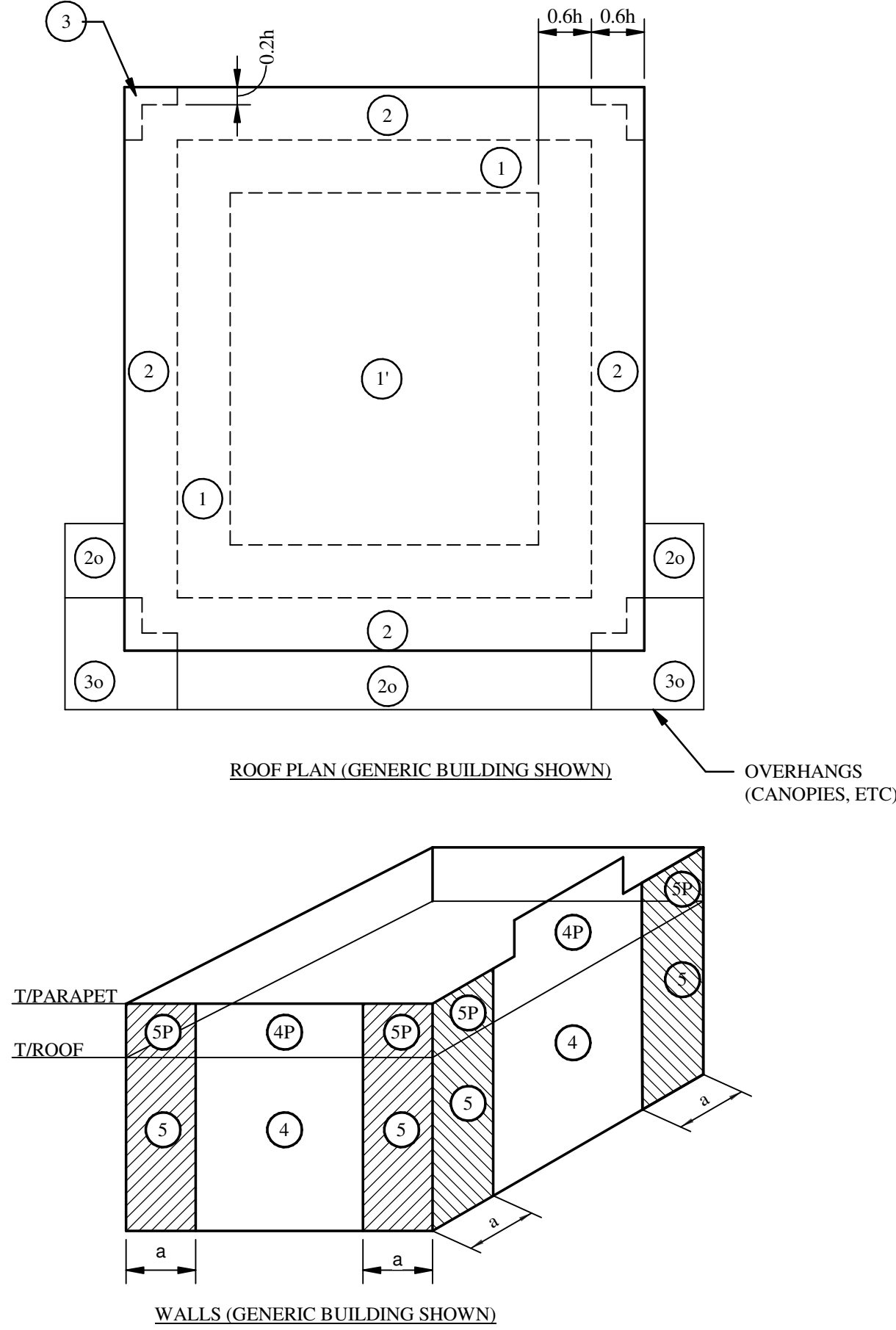
COMPONENT & CLADDING DESIGN WIND PRESSURES (PSF)				
ROOF				
ZONE	10 SF	50 SF	100 SF	
ALL ZONES	+22.7	+19.4	+18.0	
1	-88.9	-75.3	-69.4	
1'	-51.1	-51.1	-51.1	
2	-117.3	-99.8	-92.3	
3	-159.9	-124.8	-109.8	
OVERHANG				
1 & 1'	-80.4	-77.1	-75.7	
2	-108.8	-85.4	-75.4	
3	-151.4	-110.5	-92.9	
WALLS				
ZONE	10 SF	100 SF	500 SF	
ALL ZONES	+51.1	+43.6	+38.3	
4	-55.3	-47.8	-42.6	
5	-68.1	-53.1	-42.6	
PARAPET				
ZONE	10 SF	100 SF	500 SF	
4P	+158.8 -93.8	+124.6 -78.0	+100.7 -67.0	
5P	+174.8 -92.1	+143.0 -83.5	+100.7 -67.0	

- NOTES:
1. TABLE PRESSURES ARE FOR THE SQUARE FOOT (SF) TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
  2. POSITIVE PRESSURES ACT TOWARD THE BUILDING. NEGATIVE PRESSURES ACT AWAY FROM THE BUILDING.
  3. SEE DIAGRAMS FOR ZONE LOCATIONS.
  4. ALL PRESSURES SHOWN ARE ULTIMATE PRESSURES.

a = 7'-7"

WIND PRESSURE DIAGRAM

SCALE: NTS



SHOPPES AT THE HEART OF TRADITION  
BUILDING 4 - SHELL  
10400 SW DISCOVERY WAY  
PORT ST. LUCIE, FL - 34987

THESE DRAWINGS AND PLANS, ANY REPRODUCTION THEREOF, AND ANY CAD OR ELECTRONIC FILE OF THESE DRAWINGS AND PLANS (HEREINAFTER "PLANS") ARE THE SOLE AND EXCLUSIVE PROPRIETARY PROPERTY OF BDG ARCHITECTS, AND MAY NOT BE REPRODUCED, PUBLISHED, MODIFIED OR USED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF BDG ARCHITECTS. IN USE OF THE PLANS, THE USER SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN HEREIN AND THE USER SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO THE PLANS OR ANY OTHER INFORMATION CONTAINED HEREIN. NO PART OF THESE PLANS SHALL BE COPIED OR REPRODUCED FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN APPROVAL OF BDG ARCHITECTS. ANY CHANGES TO THESE PLANS REQUESTED BY THE USER WITHOUT THE EXPRESS WRITTEN APPROVAL OF BDG ARCHITECTS OR ANY CHANGES REQUESTED BY THE USER WITHOUT THE EXPRESS WRITTEN APPROVAL OF BDG ARCHITECTS SHALL BE AT THE USER'S RISK. 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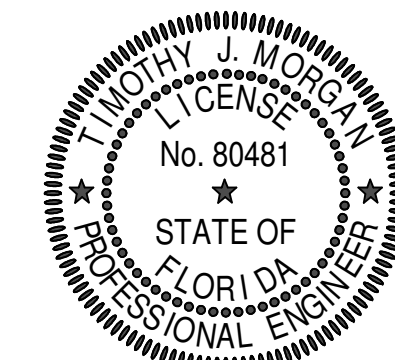


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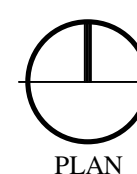
SEA



9/18/2025

1 FOUNDATION PLAN  
S1.1 SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"



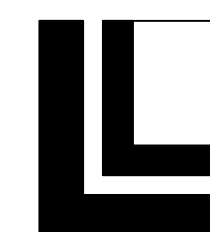
## FOOTING SCHEDULE

FOOTING SCHEDULE						
TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REIN' (LONG WAY)	BOTTOM REIN' (SHORT WAY)	REMARKS
F5	5'- 0"	5'- 0"	1'- 2"	6-#5	6-#5	
W2.5	CONT	2'- 6"	1'- 2"	3-#5	#4 @ 24" OC	
W3.0	CONT	3'- 0"	1'- 2"	4-#5	#4 @ 24" OC	
W4.0	CONT	4'- 0"	1'- 2"	5-#5	#4 @ 24" OC	

PLAN NOTES:

- PLAN NOTES:**
1. SEE S017 FOR GENERAL NOTES AND DESIGN CRITERIA.
  2. THE CONTRACTOR TO COORD ALL DIMS & LOCUT W/ ARCH PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ARCH DIMS AND ELEVATIONS WILL CONTROL.
  3. ALL ELEVATIONS ARE BASED ON A DATUM T/ SLAB ELEVATION OF 100'-0" COORDINATE WITH W/ CIVIL & ARCH.
  4. F# & W# DENOTES FOOTING TYPE. SEE SCHEDULE ON THIS SHEET FOR FOOTING SIZE & REINF.
  5. SEE 2/52.1 WHERE PIPES PENETRATE BUILDING PERIMETER.
  6. SEE 3/52.1 FOR REINF @ WALL FTG CORNERS.
  7. SEE 4/52.1 FOR FOOTING STEP DETAIL. GC TO FIELD VERIFY REQ'D STEP LOCATIONS.

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FOUNDATION PLAN

SHEET NUMBER

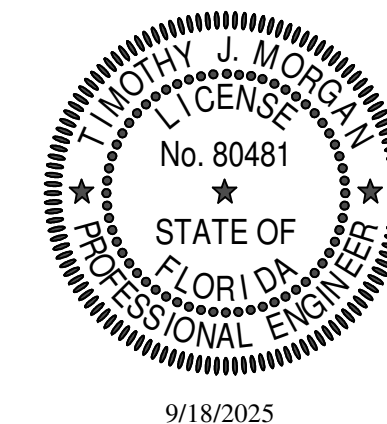
## S1.1



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1	09/15/2025	REVISION 1

## PROJECT INFORMATION BLOCK

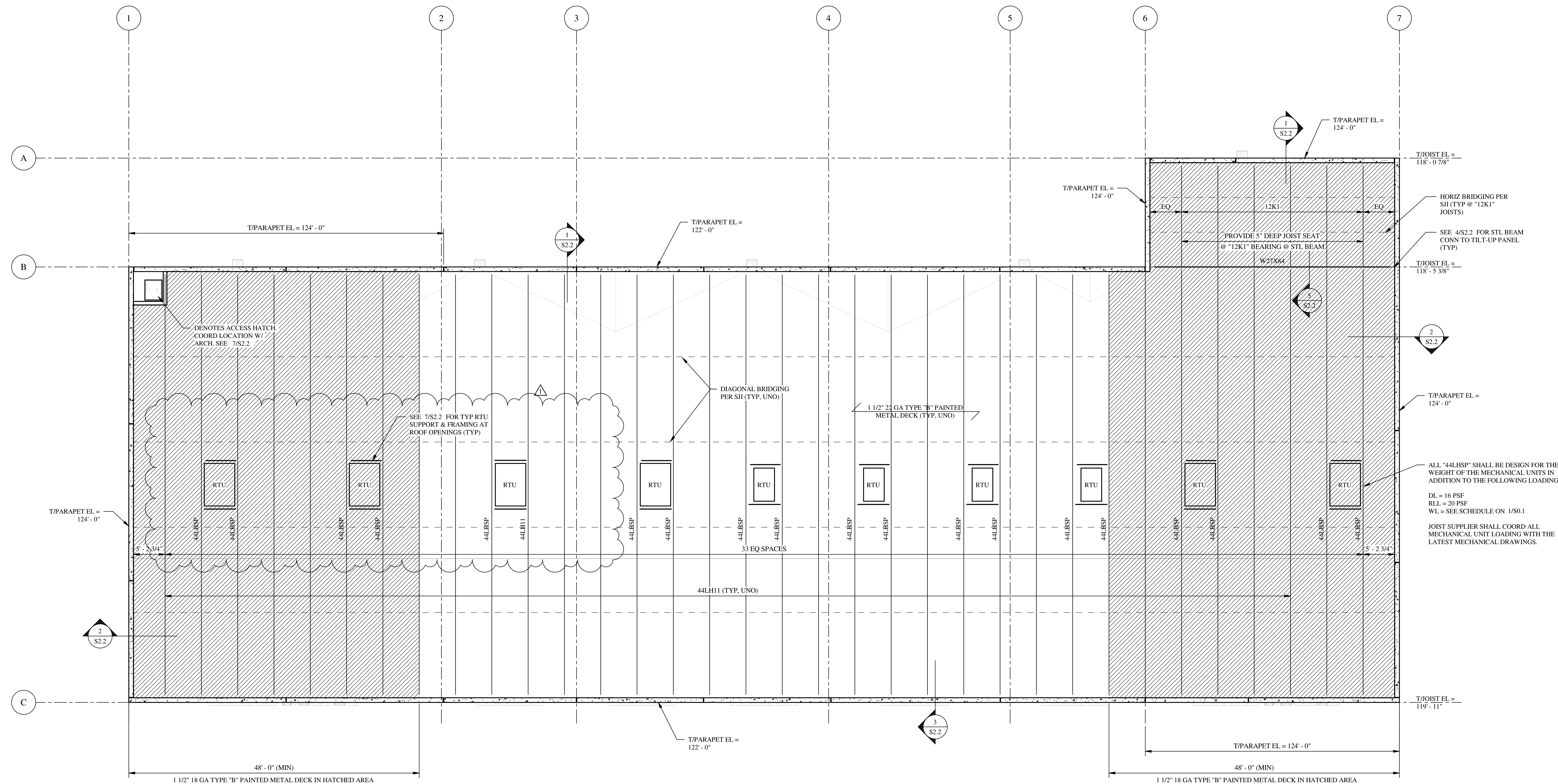
JOB #	250024
DATE	06/27/2025
DRAWN BY:	MLC
CHECKED BY:	TJM

## SHEET TITLE

## ROOF FRAMING PLAN

## SHEET NUMBER

S1.2



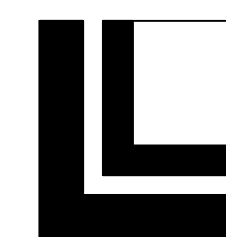
# ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

## PLAN NOTES:

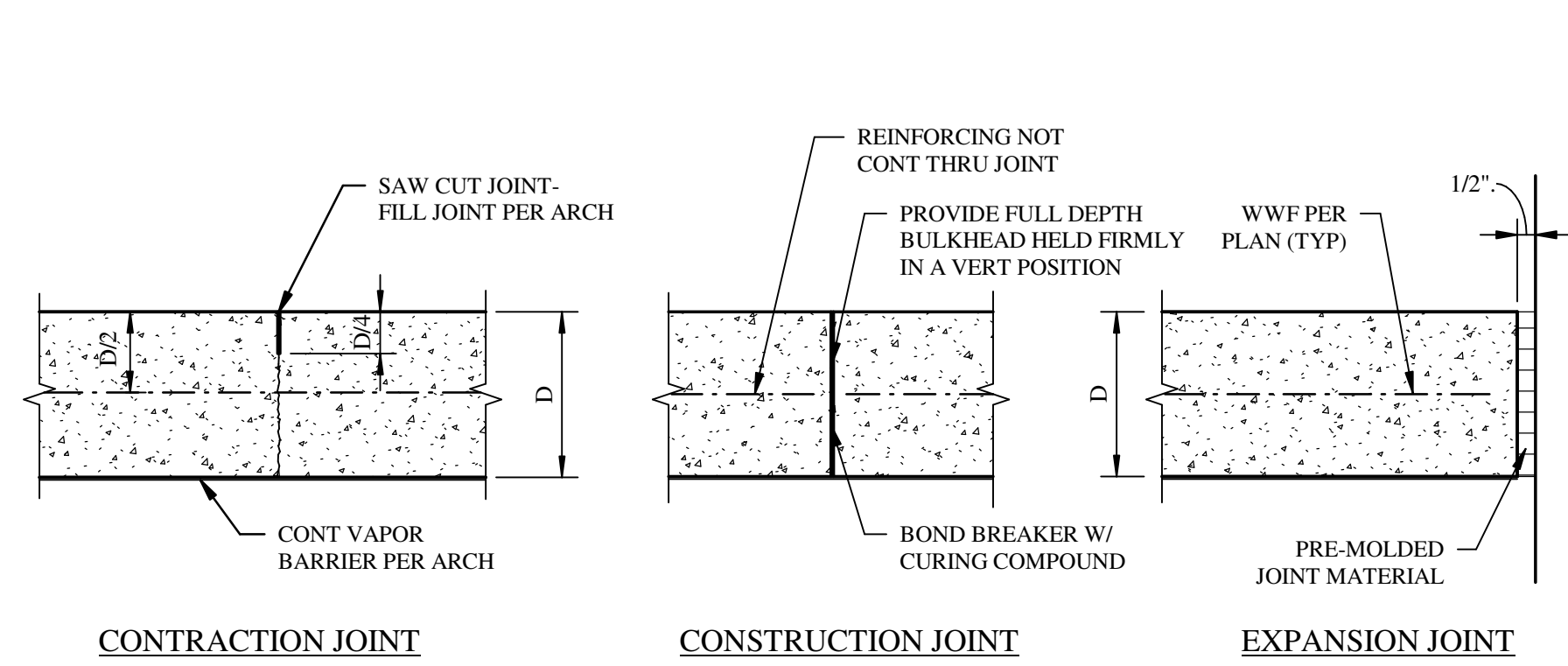
- ELEVATIONS ARE BASED ON TOP OF SLAB ON GRADE DATUM 100'-0".
- FOR DESIGN CRITERIA AND GENERAL NOTES, SEE SHEET S0.1.
- SEE 8/S2.2 FOR ROOF DECK ATTACHMENT REQUIREMENTS.
- SEE 6/S2.2 FOR JOIST REINFORCING AT CONCENTRATED LOADS.
- SEE 7/S2.2 FOR FRAMING AT ROOF OPENINGS.
- T/BEAM EL. SHALL BE 5" FROM T/JOIST EL., UNO.
- SEE 9/S2.2 FOR ROOF DECK ANGLE SPLICE DETAILS.
- SEE 10/S2.2 FOR HEAT PUMP RAIL ATTACHMENT DETAIL, COORD LOCATIONS WITH MECH PLANS.

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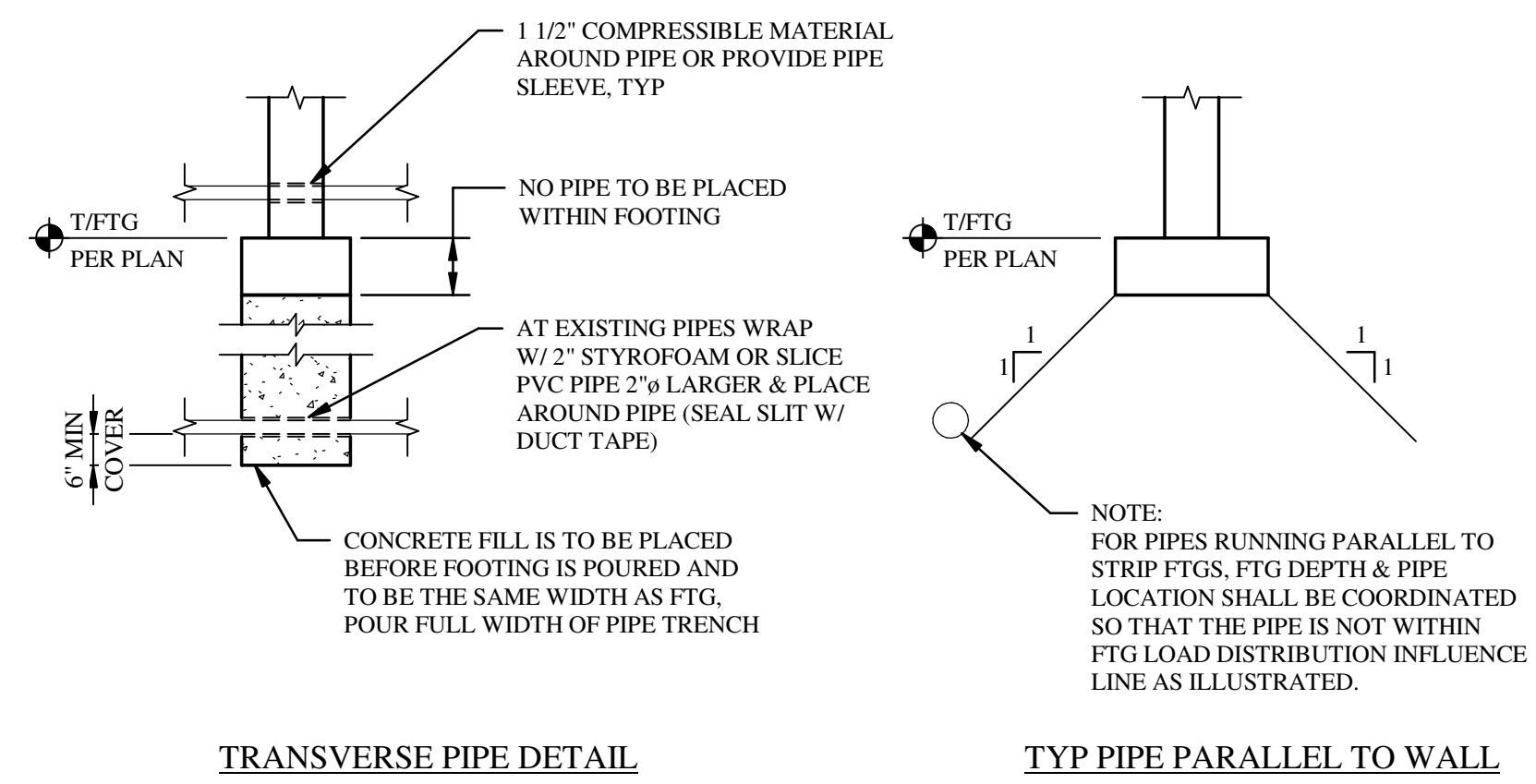
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 Jacksonville, FL 32224  
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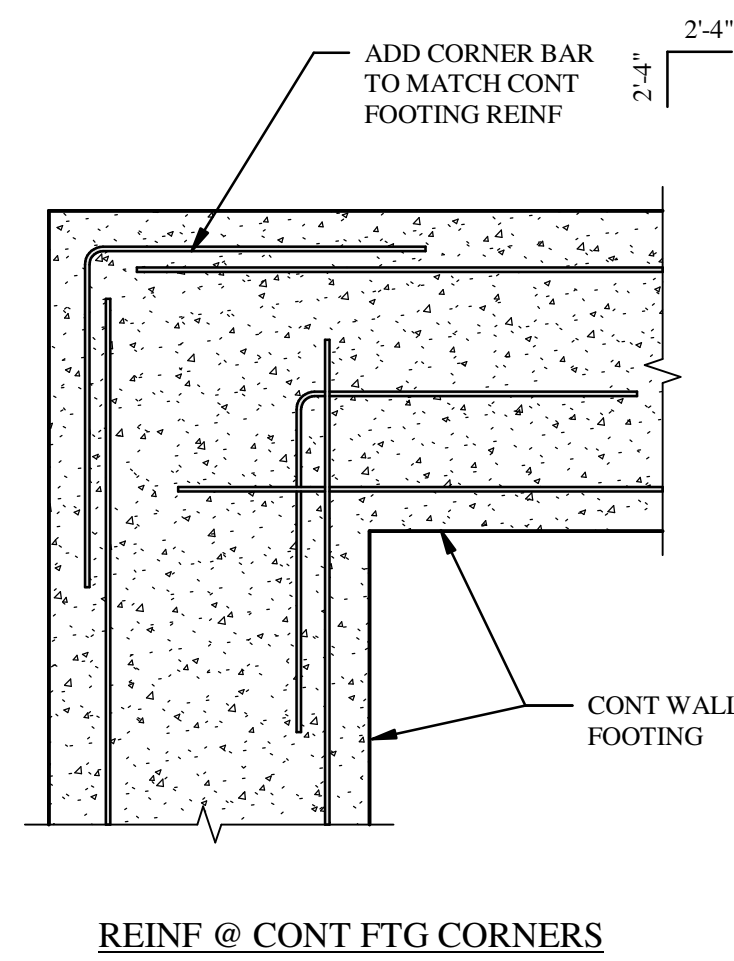


- NOTES:
1. USE CONSTRUCTION JOINT WHEREVER CONSTRUCTION IS STOPPED OR SPECIFIED ON PLAN.
  2. CONTRACTION JOINTS SHALL BE CUT INTO SLAB WITHIN 12 HOURS OF CONCRETE PLACEMENT.
  3. SLAB JOINTS SHALL BE SPACED NO GREATER THAN 18'-0"

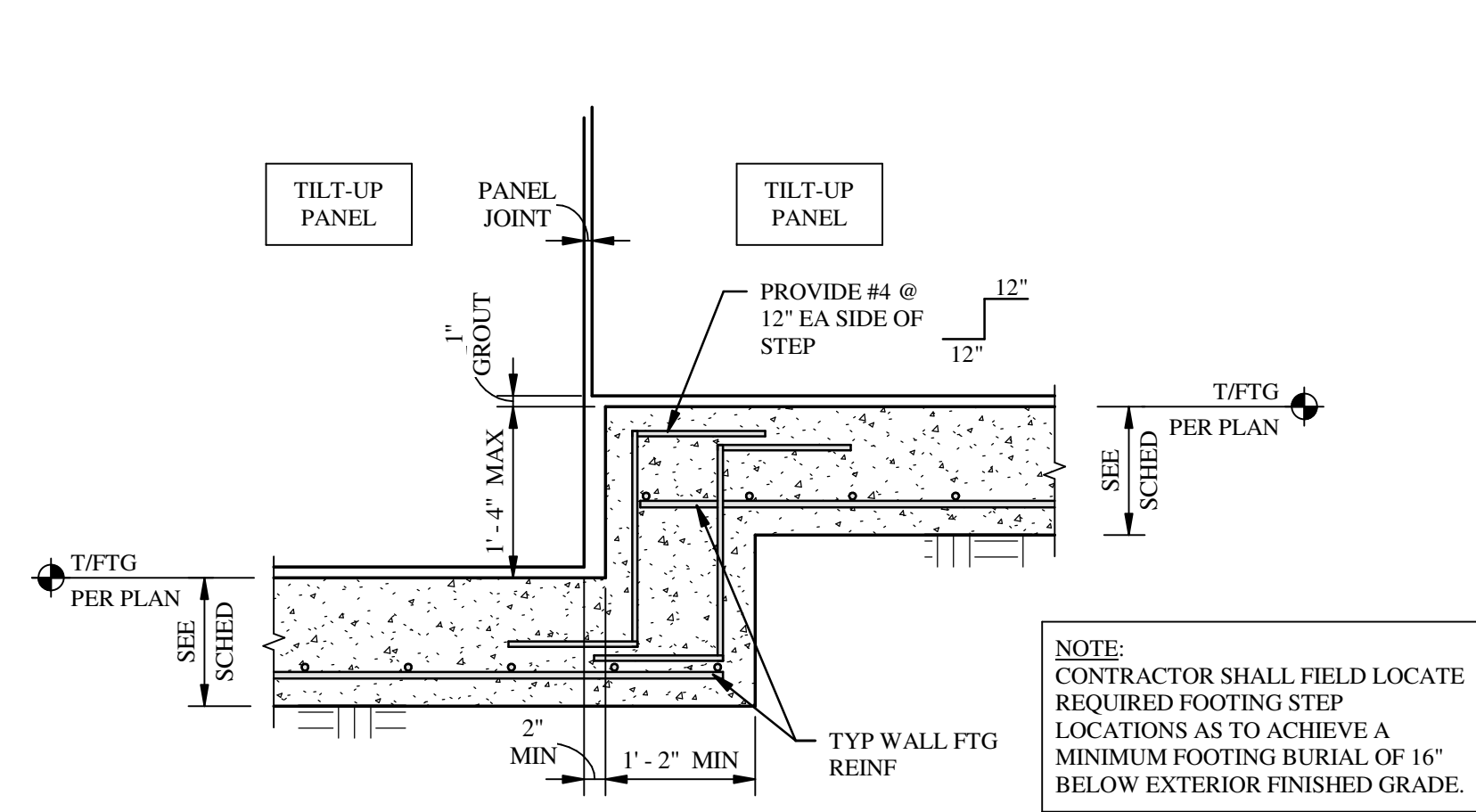
1 SLAB JOINT DETAIL  
SCALE: NTS



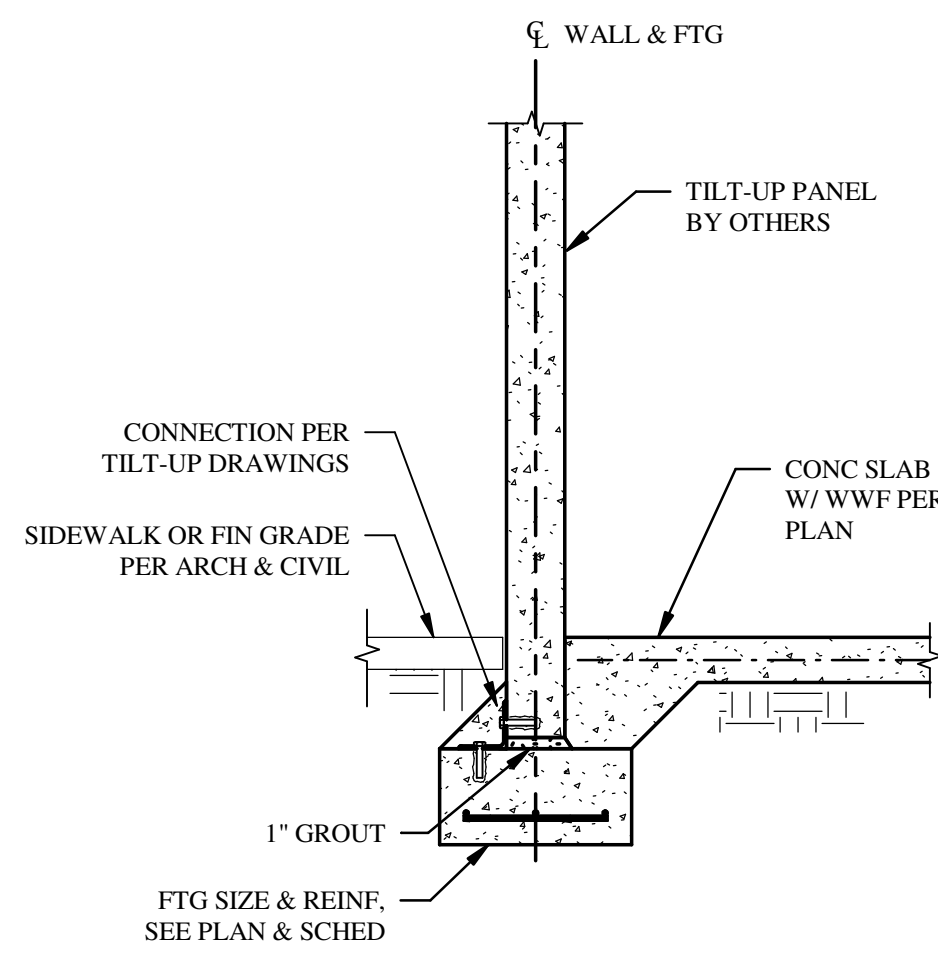
2 PIPE PENETRATION DETAIL  
SCALE: NTS



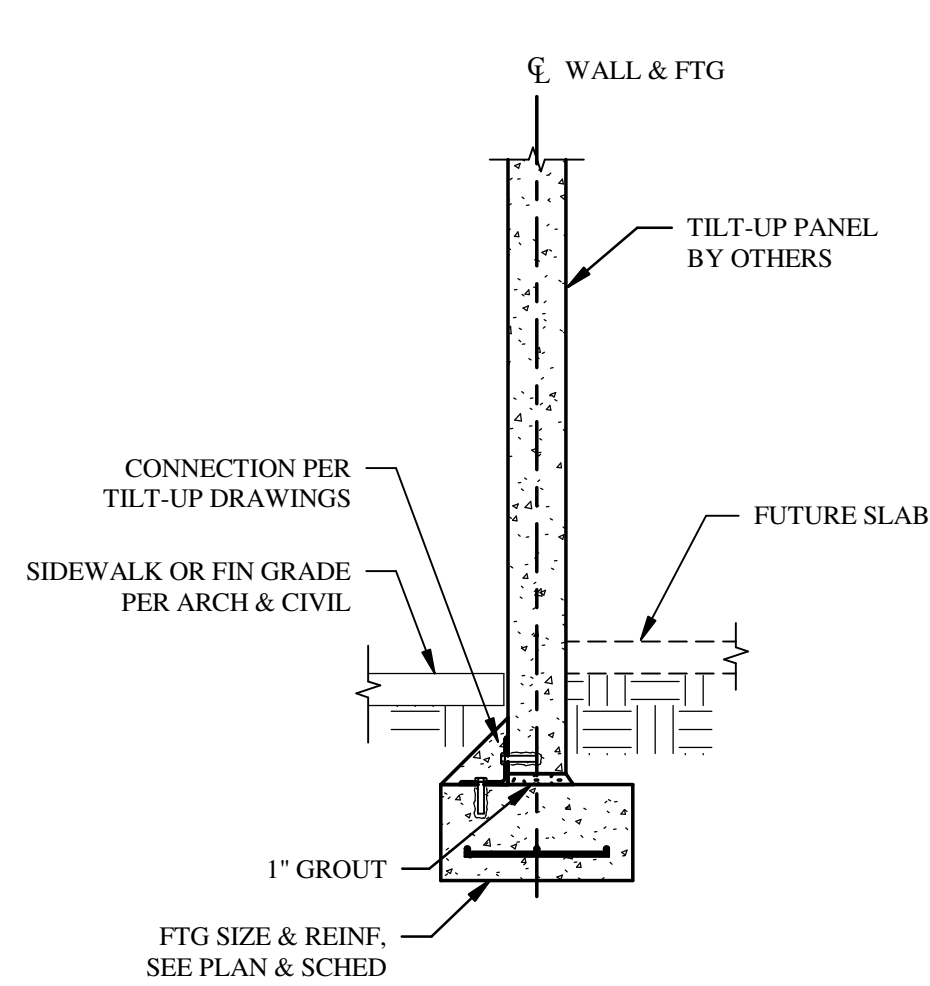
3 DETAIL  
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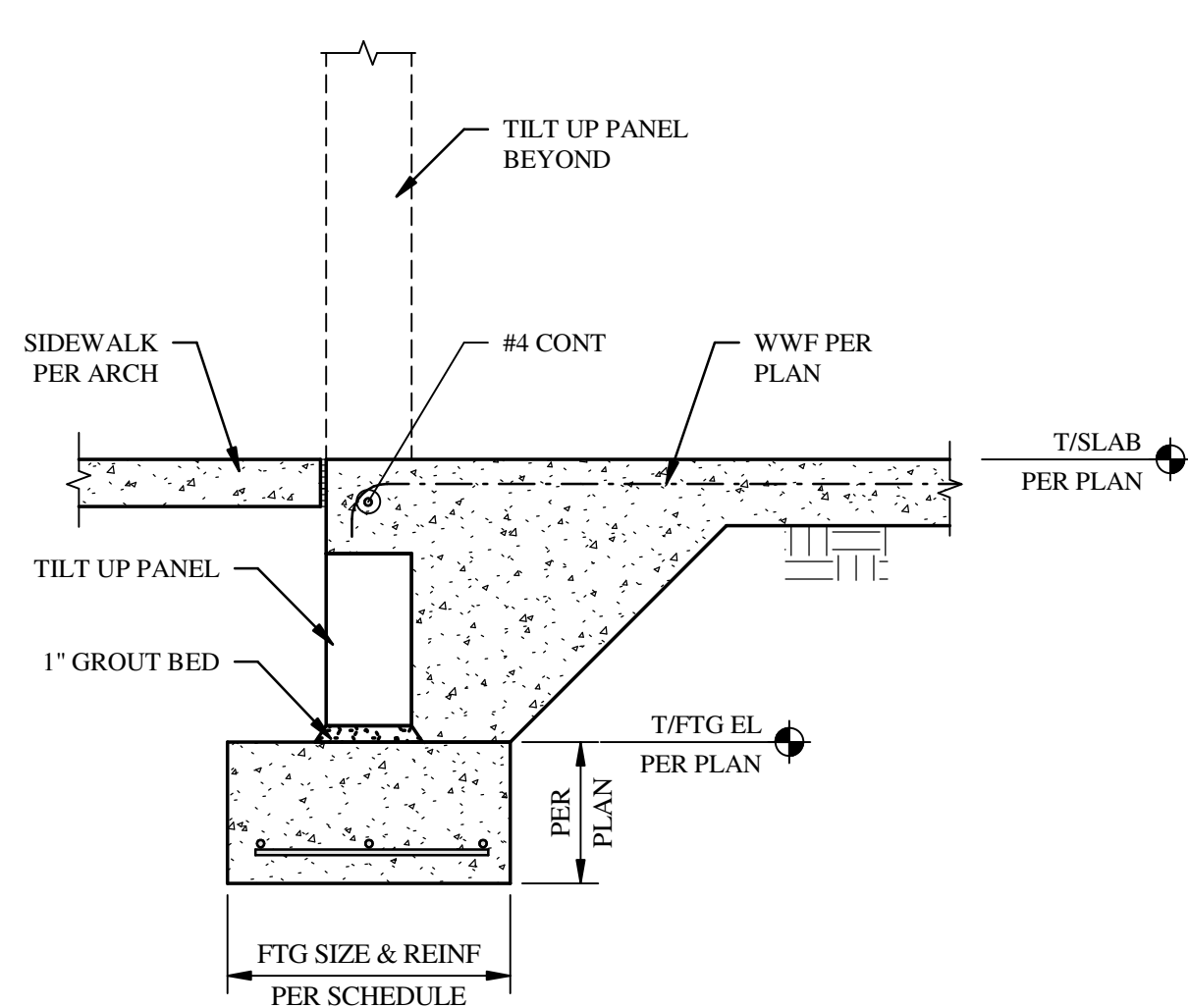
4 FTG STEP DETAIL  
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5 SECTION  
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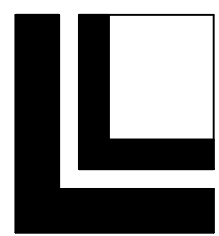


6 SECTION  
SCALE: NTS



7 SECTION  
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DATE	06/27/2025
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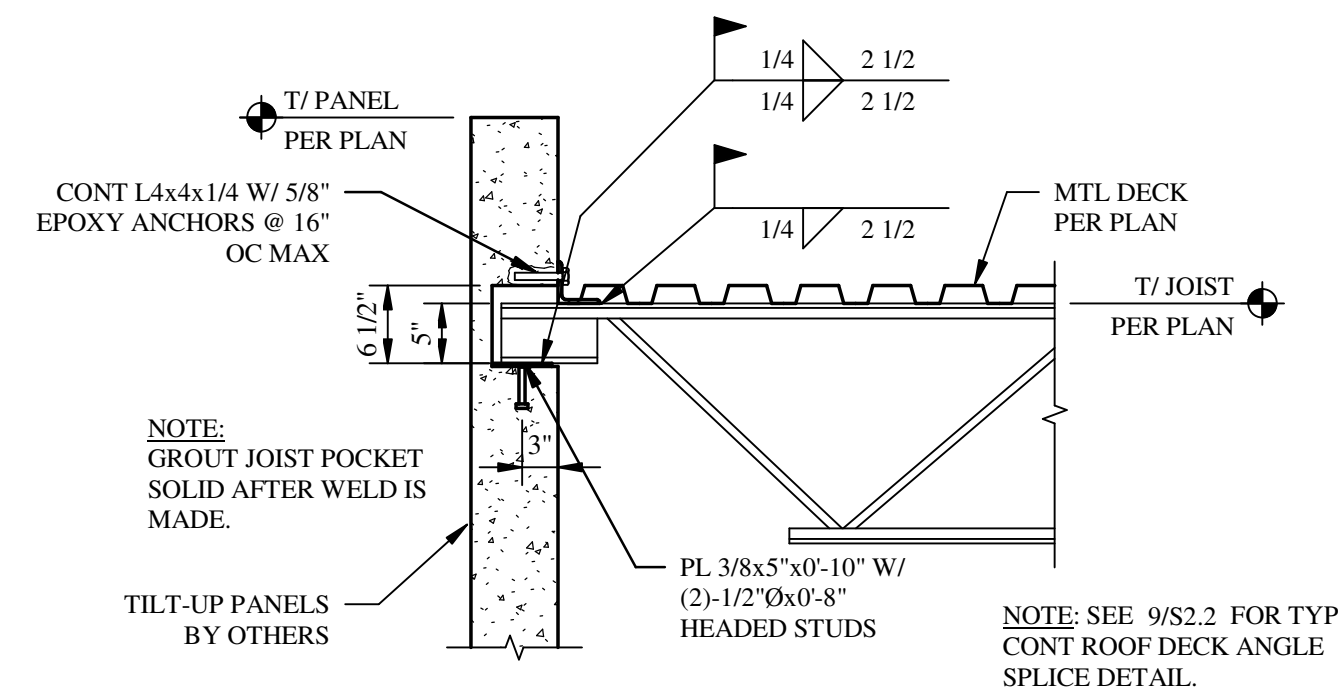
SHEET TITLE

SECTIONS & DETAILS

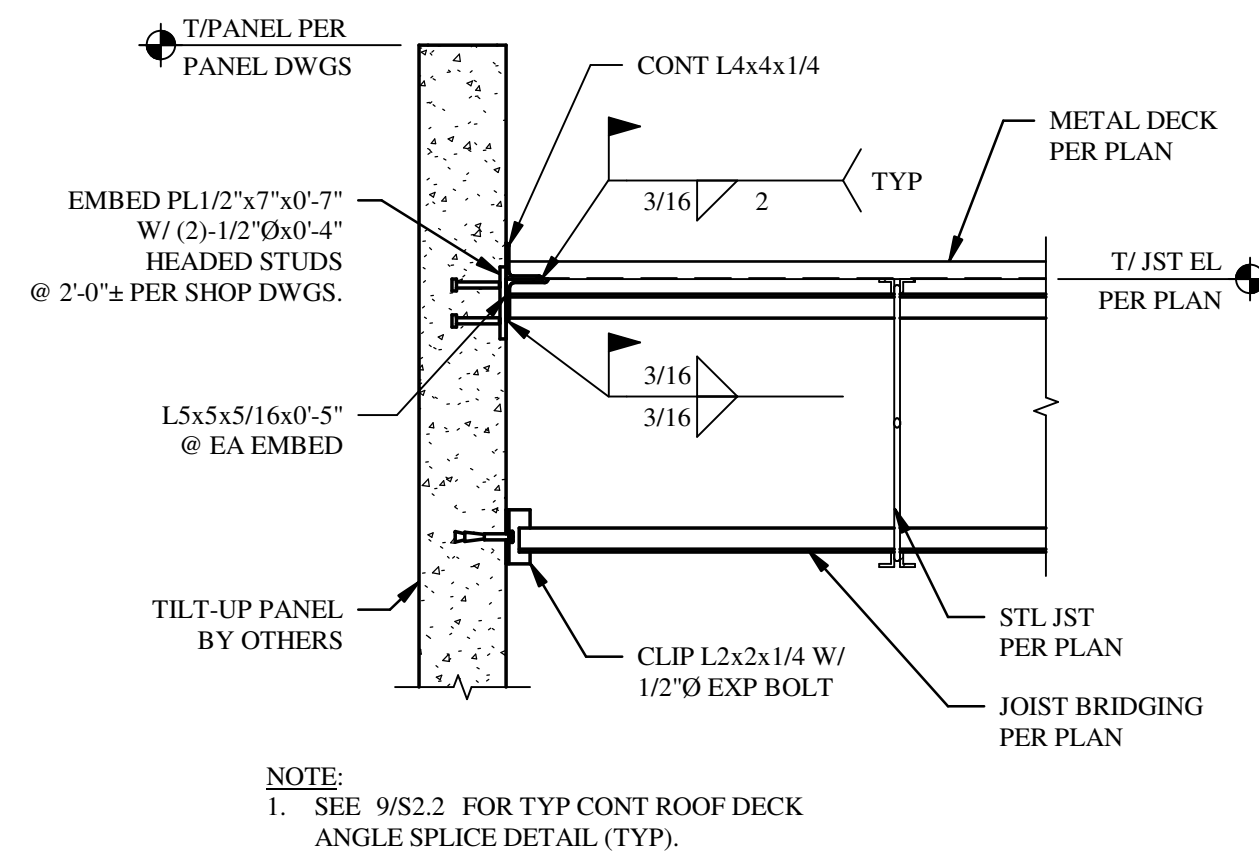
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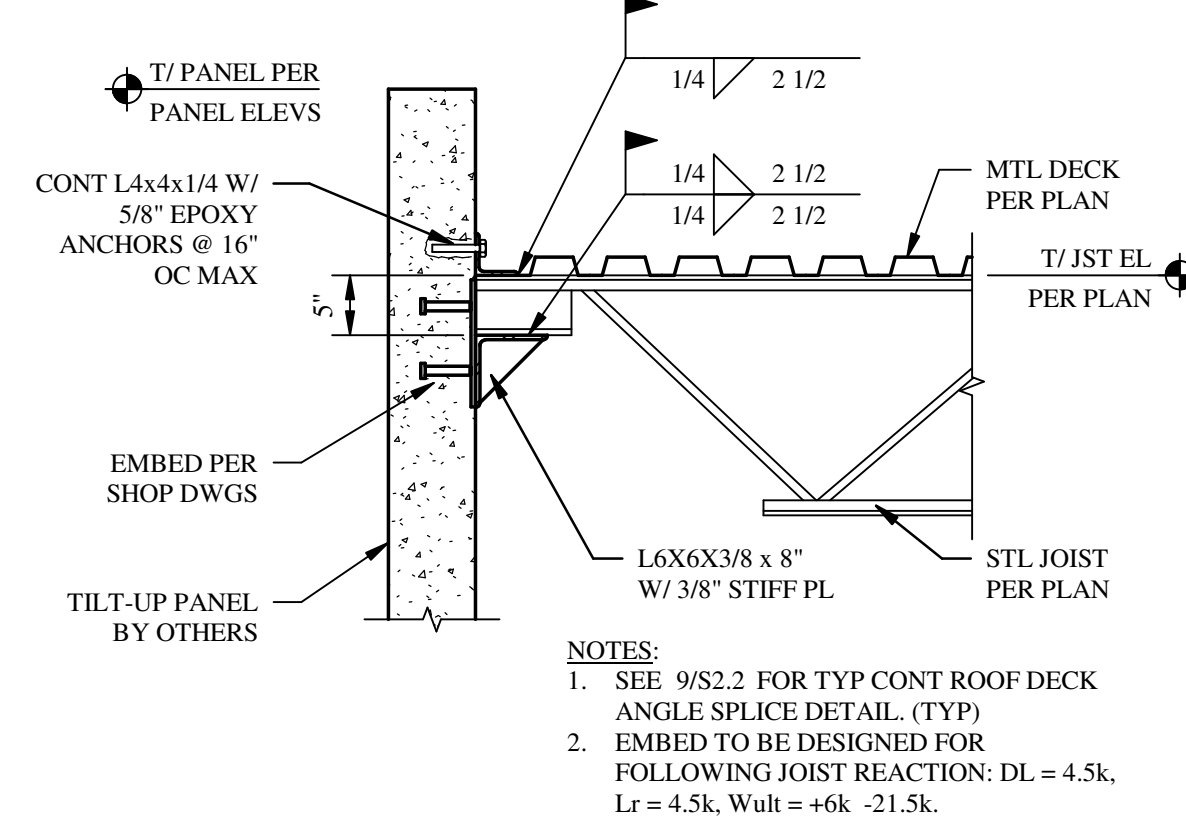




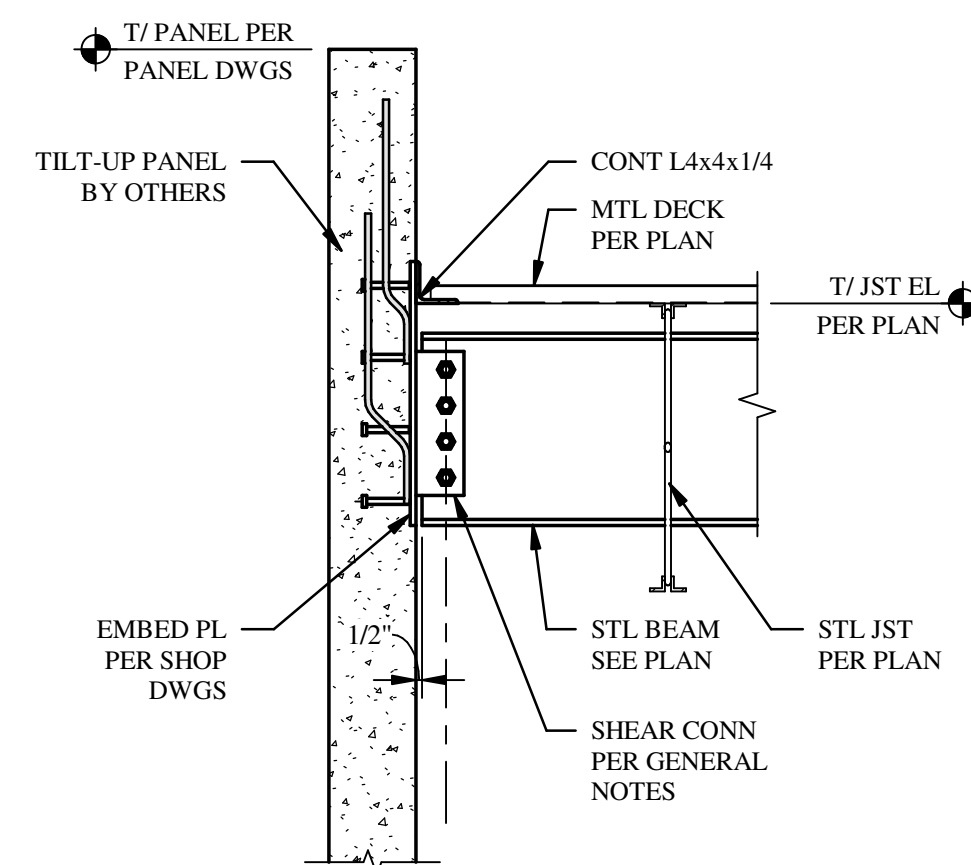
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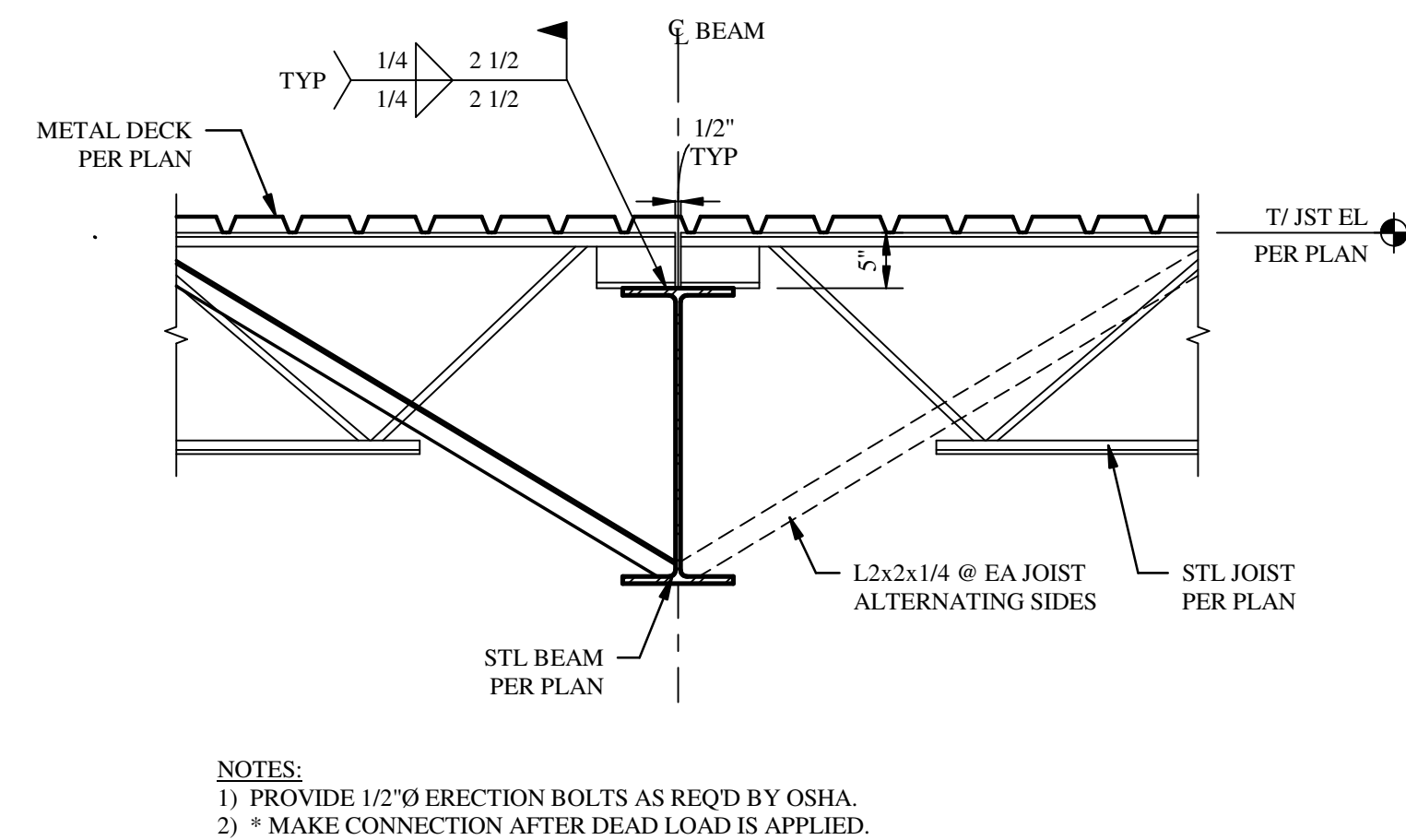
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S2.2



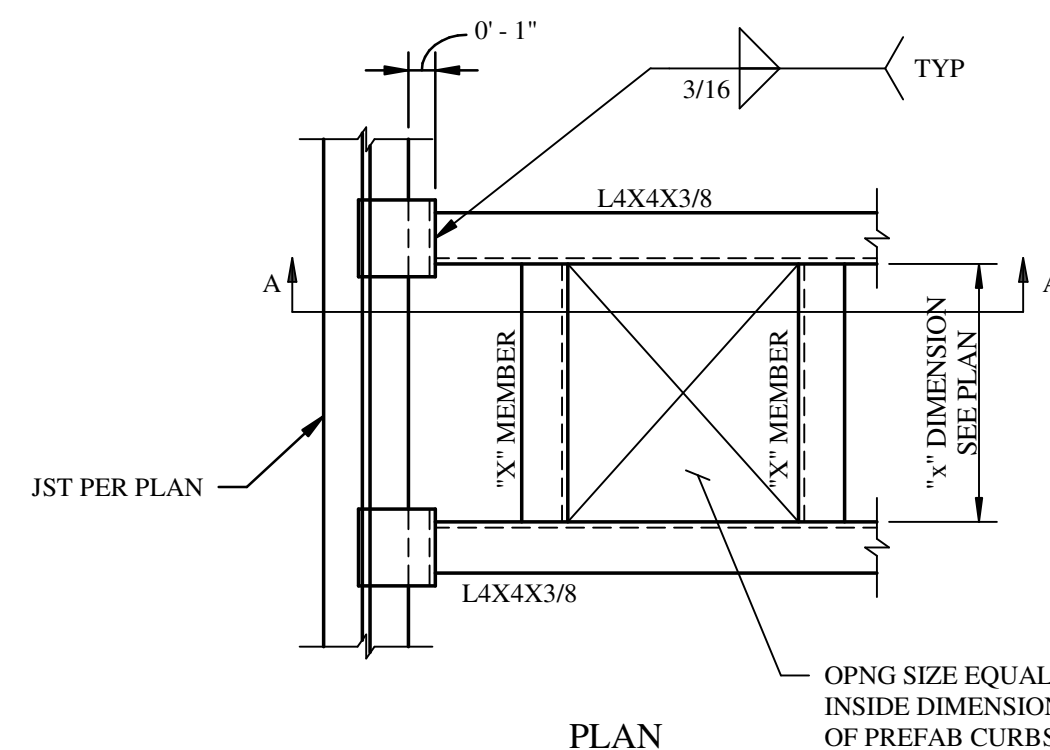
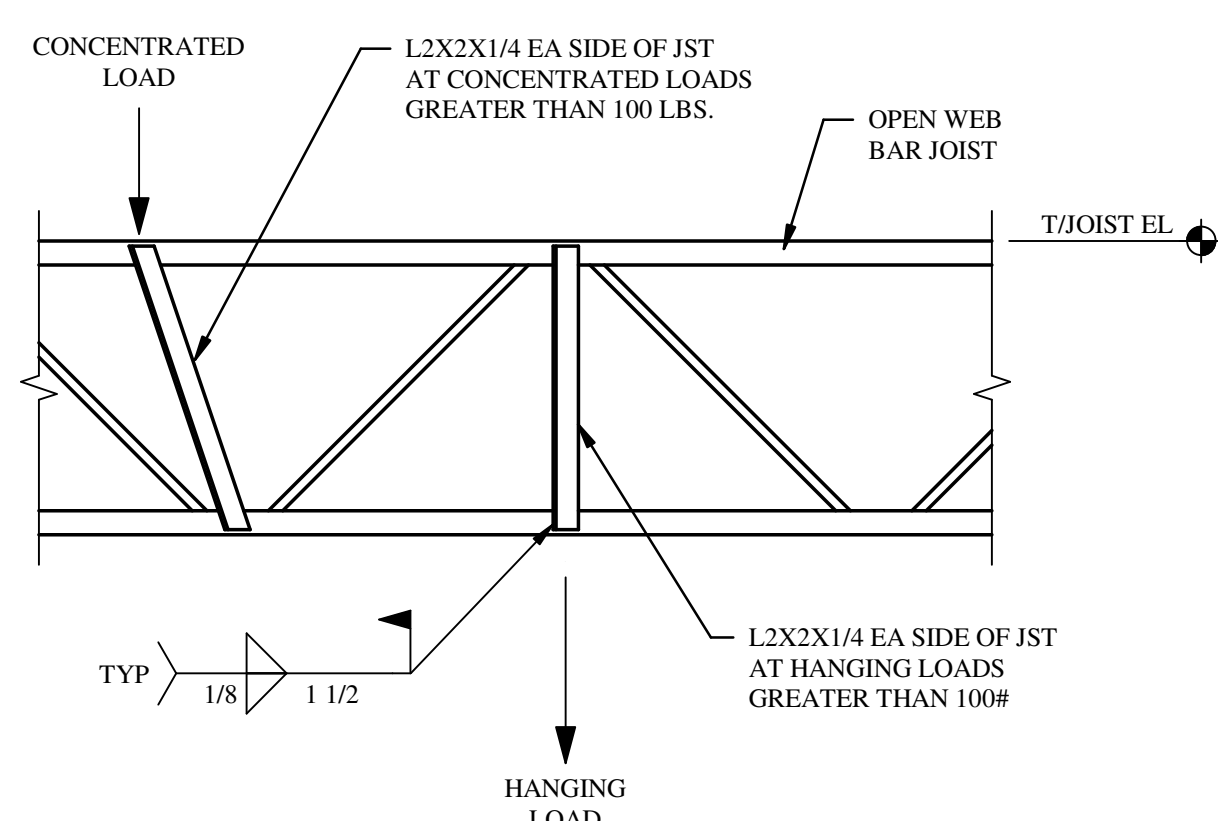
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S2.2



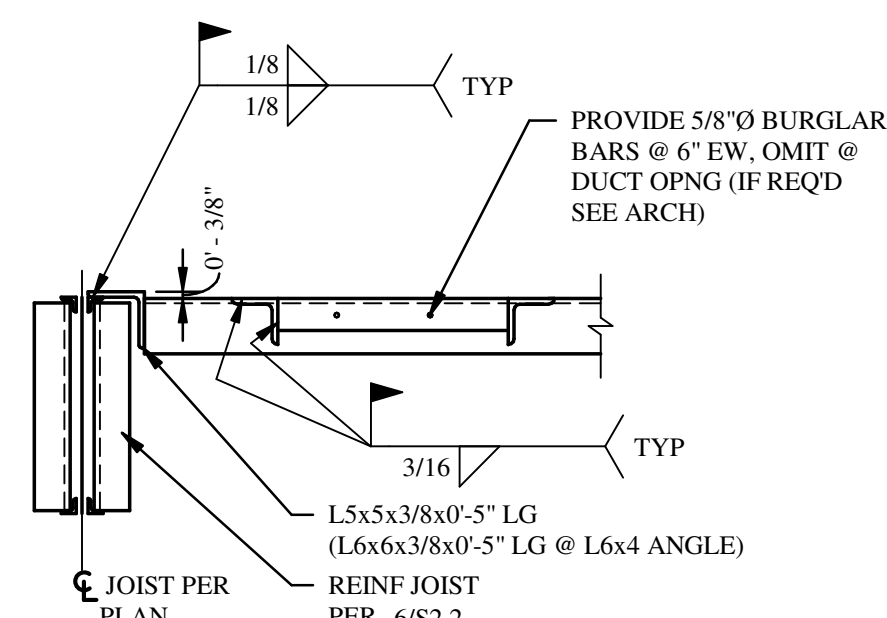
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5  
S2.2

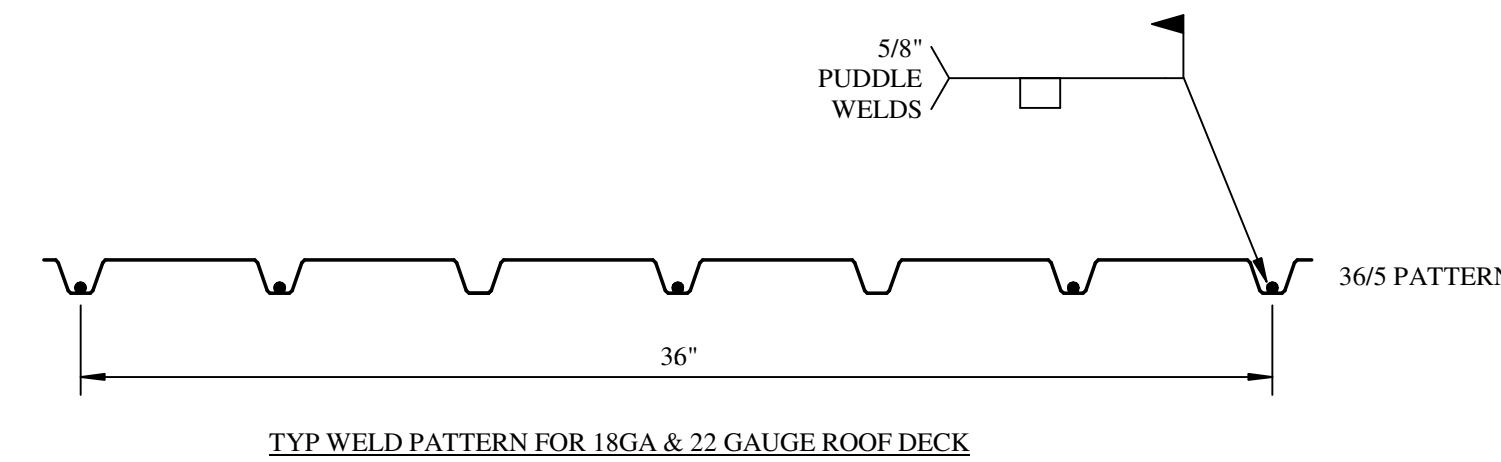


TYPICAL FRAMING AT ROOF OPENING



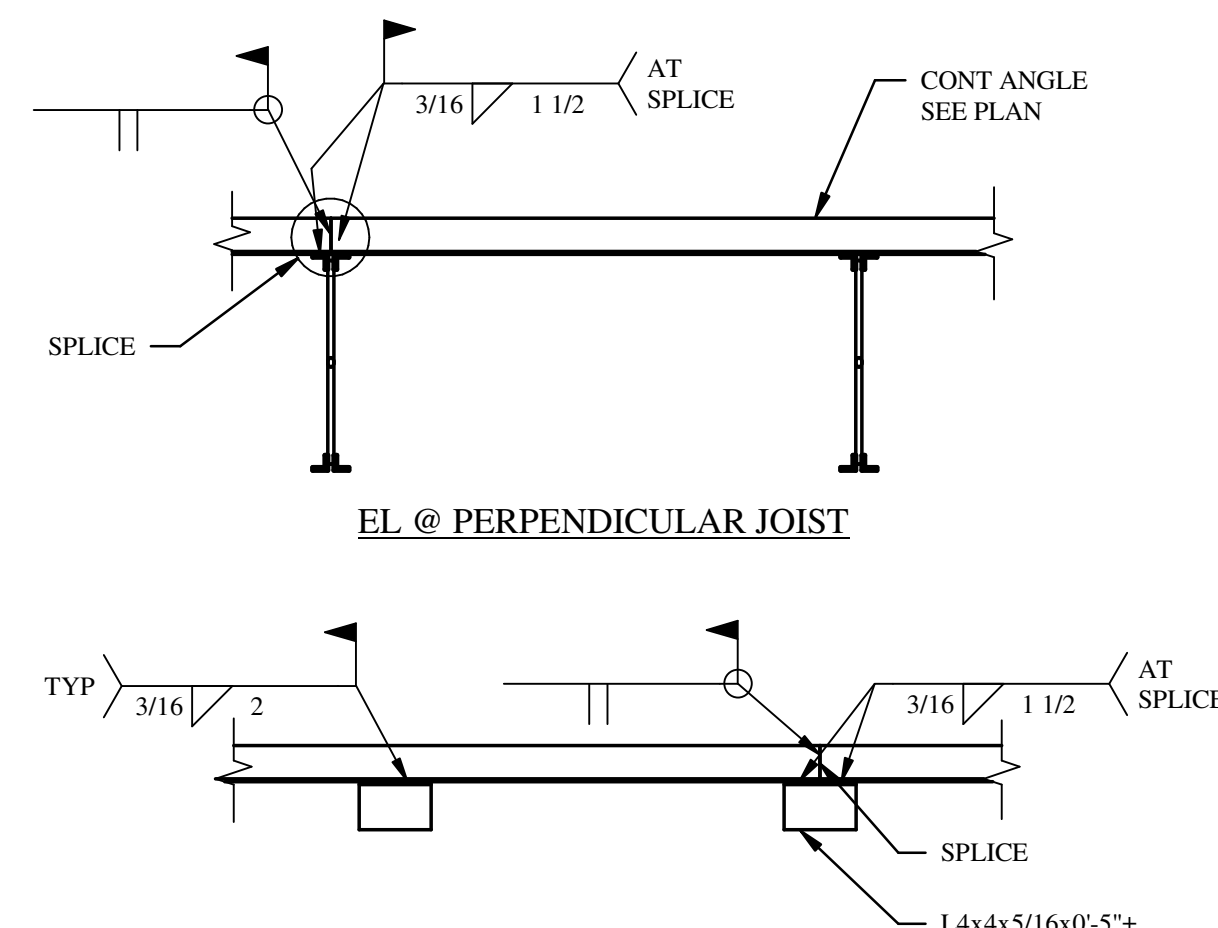
SECTION A-A

'X' DIM	'X' MEMBER
≤ 3'-0"	L3x3x1/4
≤ 6'-0"	L4x3x3/8 LLV
≤ 9'-0"	L4x4x3/8



TYP WELD PATTERN FOR 18GA & 22 GAUGE ROOF DECK

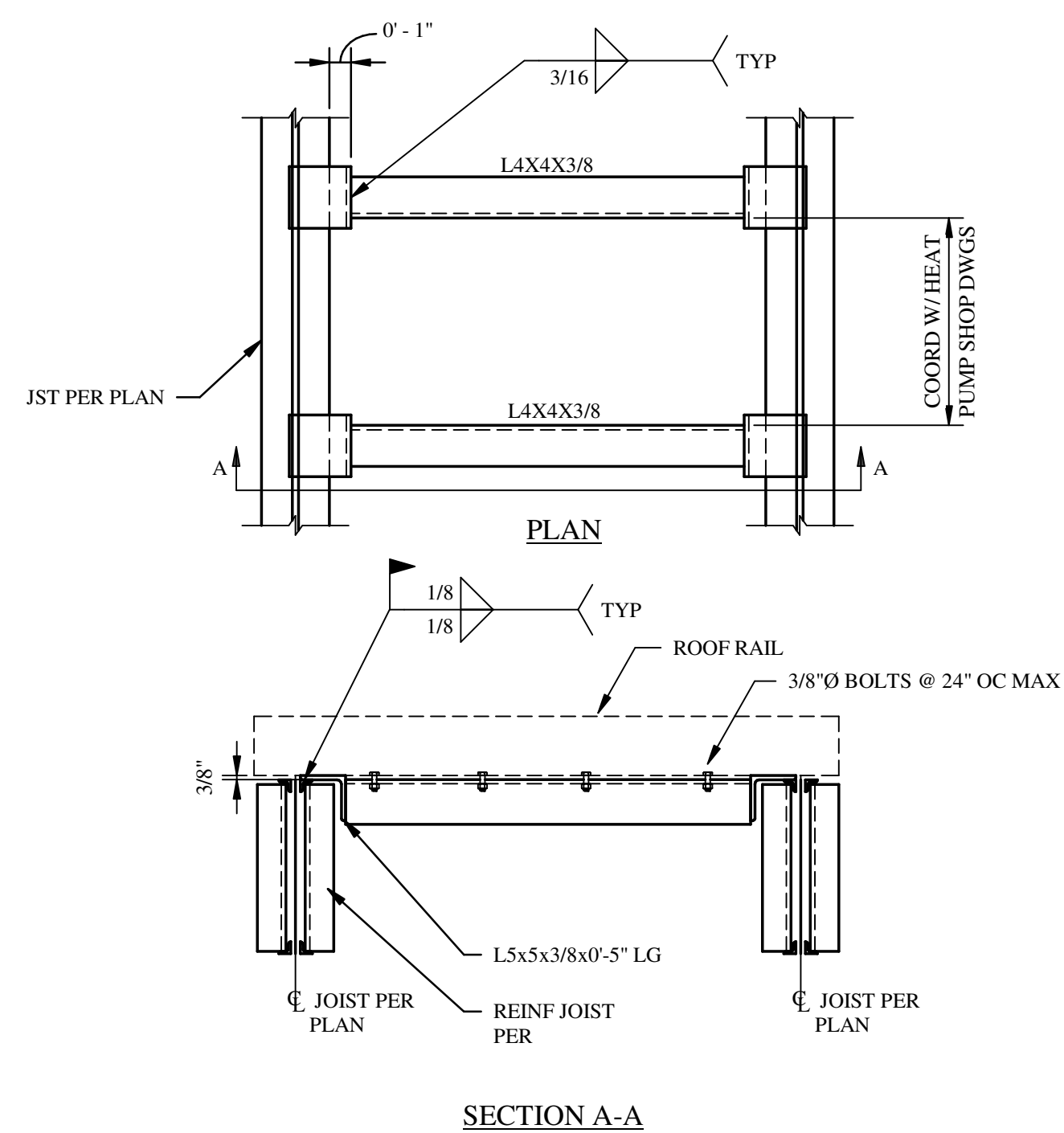
- ROOF DECK ATTACHMENT NOTES:**
1. ATTACHMENT AT SUPPORTS SHALL BE PUDDLE WELDS.
  2. ATTACHMENT AT SIDE LAPS SHALL BE #10 TEK SCREWS.
  3. ATTACHMENT AROUND OPENINGS SHALL BE WELDS @ 6" OC.
  4. ATTACHMENT AT SIDE SUPPORTS ALONG PERIMETER SHALL BE WELDS @ 6" OC.
  5. MINIMUM SHEET LAP SHALL BE 3" TYP.
  6. PROVIDE THE FOLLOWING SIDELAPS PER SPAN: 4 SIDELAPS



EL @ PARALLEL JOIST

ROOF DECK EDGE ANGLE SPLICE DETAILS

6 JOIST REINF DETAIL  
S2.2 SCALE: NTS



SECTION A-A

10 HEAT PUMP RAIL ATTACHMENT  
S2.2 SCALE: NTS

8 ROOF DECK ATTACHMENT  
S2.2 SCALE: NTS

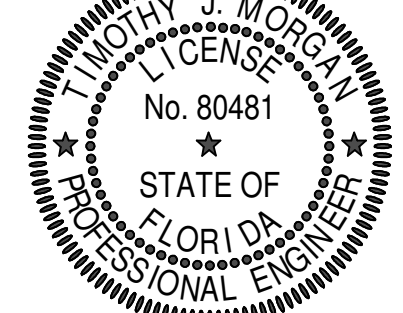
**DETAIL**  
9  
S2.2 SCALE: NTS

SHOPPES AT THE HEART OF TRADITION  
BUILDING 4 - SHELL

10400 SW DISCOVERY WAY  
PORT ST. LUCIE, FL - 34987

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SEAL



9/18/2025

[illegible]

PROJECT INFORMATION BLOCK

JOB #	250024
DATE:	06/27/2025
DRAWN BY:	MLC
CHECKED BY:	TJM

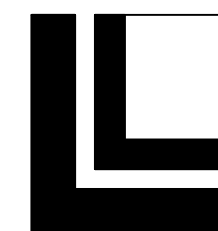
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## SECTIONS & DETAILS

SHEET NUMBER
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## S2.2

This item has been electronically sealed by Timothy J. Morgan on 9/18/2025 using a digital signature.  
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



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