

ALUMINUM CANOPY

7465 SW 127 ST, PINECREST, FL
33156

INDEX OF DRAWINGS

SHEET	DESCRIPTION
SD0.0	COVER PAGE, GENERAL NOTES, KEY PLAN PLAN VIEW, ELEVATIONS & DETAILS.

GENERAL NOTES:

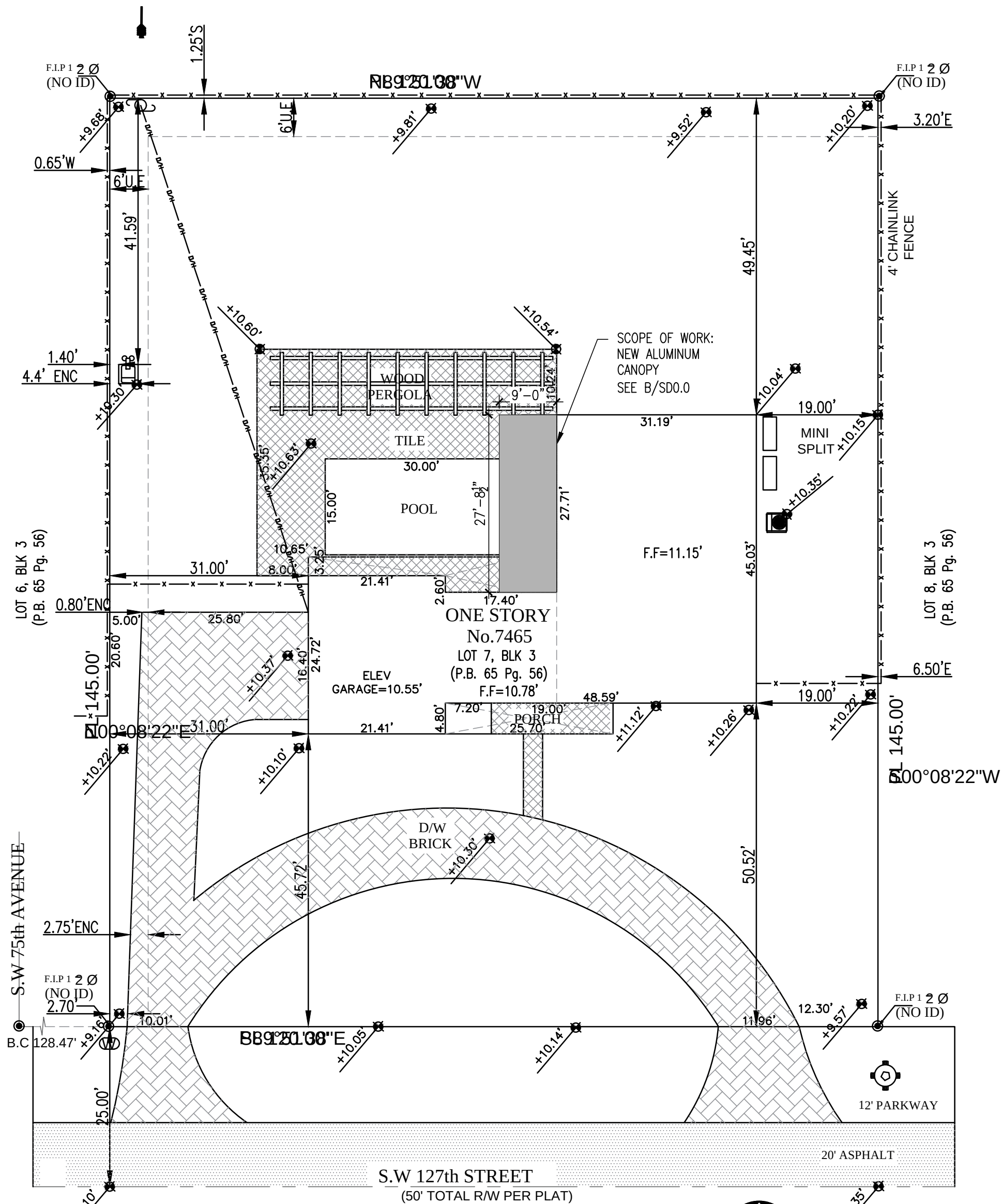
- UNLESS NOTED OTHERWISE (U.N.O) ON DRAWINGS OR THE SPECIFICATIONS, THESE NOTES SHALL APPLY TO THIS PROJECT.
- IF ANY ERRORS OR MISIONS APPEAR ON THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH OMISSIONS OR ERRORS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILURE TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.
- THIS DESIGN COMPLIES WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE FLORIDA BUILDING CODE & OTHER REFERENCES CODES & SPECIFICATION. ALL REFERENCED CODES AND SPECIFICATIONS SHALL BE THE LATEST EDITION AT TIME OF PERMIT. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THIS WORK REQUIRES A BUILDING PERMIT. CONTRACTOR TO OBTAIN THE APPROPRIATE BUILDING PERMITS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT NECESSARY TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS CONSTRUCTION, AND FOR THE SEQUENCES AND PROCEDURES TO BE USED.
- LOCATION AND SIZES OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL VERIFY ALL UTILITIES IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION OPERATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE ALL DAMAGES.
- THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN ON PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE SERVICES IS CONTRACTOR RESPONSIBILITY.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
- THE CONTRACTOR SHALL MAKE REQUIRED ARRANGEMENTS, SECURE AND PAY FOR ALL BARRICADES, ENCLOSURES, AND FENCING AS NEEDED FOR AND DURING THE PROGRESS TO PROTECT ADJACENT PROPERTIES. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS EXPOSED OR OPEN AT THE END OF THE WORKING DAY WHEN THE CONTRACTOR IS NOT WORKING, UNLESS ANY TRENCH IS COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN TRAFFIC.
- EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN PLANS, SECTIONS AND DETAILS OR THE APPLICABLE CODES OR REGULATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER DURING BIDDING OR BEFORE WORK BEGINS IN ORDER TO CLARIFY THE REQUIREMENTS AND TO EFFECT THE NECESSARY MODIFICATIONS, CHANGES AND/OR INSTRUCTIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESETING ALL DISTURBED CONDITIONS AND PROPER DISPOSAL OF ANY MATERIAL & GARBAGE FROM THE SITE AFTER COMPLETION OF WORK. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)
- DRAWINGS AND DIMENSIONS ARE BASED UPON DRAWINGS SUPPLIED BY THE CLIENT. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ERRORS OR MISINTERPRETATIONS OF THE SYSTEM DESIGNED BY THE ENGINEER BASED ON CLIENT CONFIRMED DESIGN AND DIMENSIONS. ADDITIONAL DRAFTING TIME EMPLOYED IN THE CHANGE OF THE DESIGN AFTER SIGNED AND SEALING OF DRAWINGS WILL RESULT IN ADDITIONAL COST.
- DO NOT SUBSTITUTE MATERIALS, EQUIPMENTS OR METHODS OF CONSTRUCTION UNLESS SUCH SUBSTITUTIONS OR CHANGES HAVE BEEN APPROVED IN WRITING BY THE OWNER.
- THE ENGINEER HAS GENERATED THESE SHOP DRAWINGS BASED ON A PROVIDED DESIGN THAT HAS BEEN DEVELOPED BY A LICENSED ARCHITECT OR A COMPETENT LICENSED DESIGN PROFESSIONAL WHO CONFIRMED COMPLIANCE WITH ALL APPLICABLE NATIONAL AND FLORIDA BUILDING CODES.
- CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 318) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315). ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- ANCHORING CEMENT WITH A COMPRESSION STRENGTH OF 10 KSI AT THE END OF 7 DAYS.
- WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
- DO NOT SCALE DRAWINGS, DIMENSIONS ALWAYS GOVERN.
- DETAILS LABELED "TYP." SHALL APPLY TO ALL SITUATIONS THAT ARE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. TYPICAL DETAILS SHALL APPLY WETHER OR NOT THEY ARE SPECIFICALLY KEYED AT EACH LOCATION. THE ENGINEER SHALL HAVE FINAL AUTHORITY TO DETERMINE APPLICABILITY OF TYPICAL DETAILS.
- THE QUANTITIES AND DIMENSION SHOWN ON DRAWINGS ARE BASED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSION TO BE SITE VERIFIED BY GENERAL CONTRACTOR/ SUBCONTRACTOR.
- FLORIDA BUILDING CODE, 2023 EDITION LOADS:
WIND LOAD AS PER ASCE 7-22 KD=0.85, CATEGORY 2, EXPOSURE C
WIND VELOCITY AS PER FBC 2023, SECTION 1616.2.1 (UP TO 6 FT HEIGHT V=175 Mph)
- THE ENGINEER HAS EXCLUSIVELY DESIGNED THE STRUCTURE AND/OR BUILDING COMPONENTS IN COMPLIANCE WITH FBC-23 (8TH EDITION) AND DESIGN STANDARDS FOR STRUCTURAL REQUIREMENTS ONLY. THE EXISTING STRUCTURE MUST SUPPORT THE LOADS IMPOSED BY THE SYSTEM OR SYSTEMS. ENGINEER ON RECORD OF THE BUILDING SHALL VERIFY THE STRUCTURE FOR SUCH LOADINGS.
- ENGINEER'S VISITS TO THE SITE DURING CONSTRUCTION SHALL BE SCHEDULED WITHIN 48 HOURS PRIOR TO INSPECTION.
- REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY THE ENGINEER IS PROHIBITED.

ALUMINUM

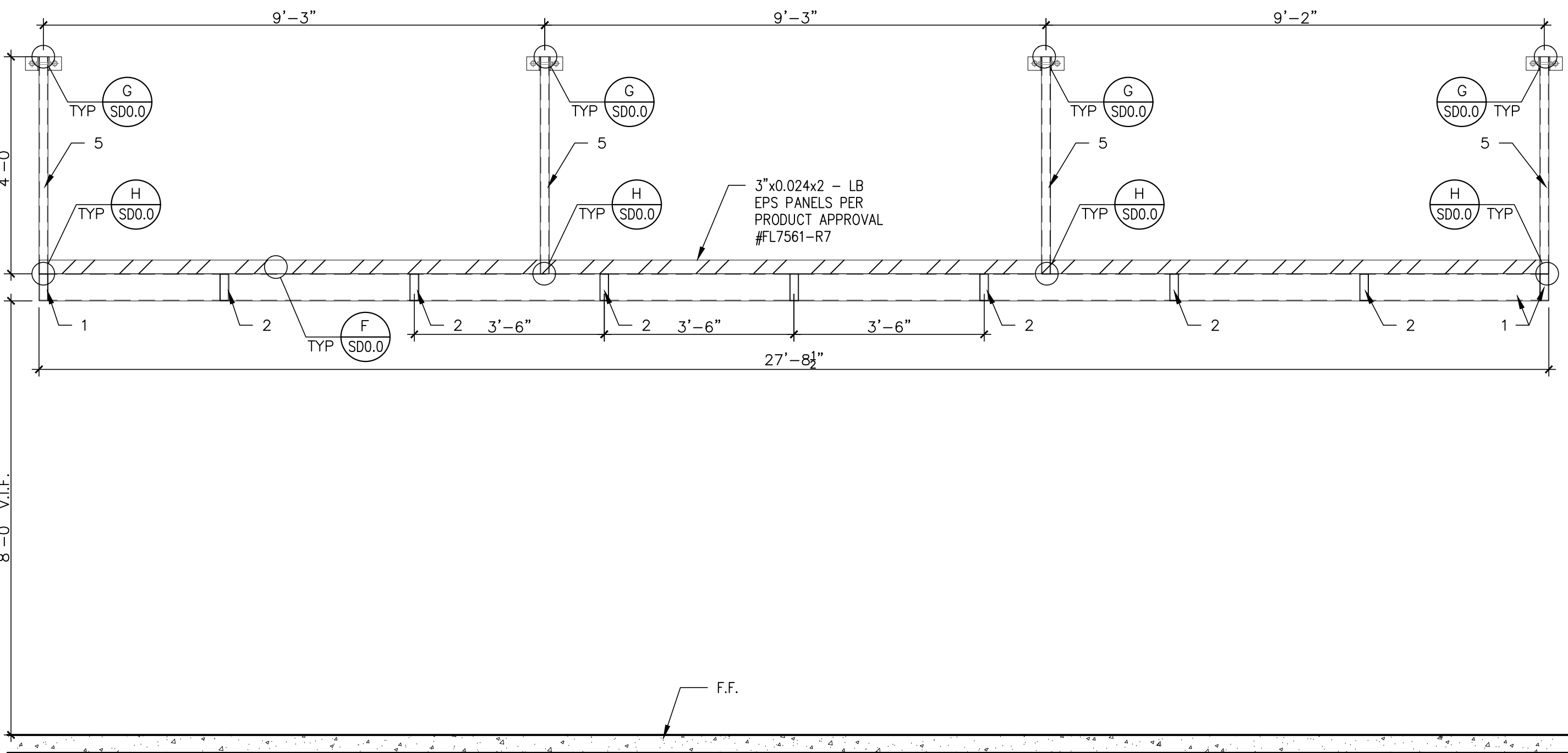
- STRUCTURAL ALUMINUM SHALL BE DOMESTIC ALLOY 6061-T6, DESIGNED IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S SPECIFICATIONS FOR ALUMINUM STRUCTURES.

ALLOY	F _y	F _y (WELDED)	E _v	E _v (WELDED)
6061-T6(TUBES & SHAPES)	19.0 KSI	9.0 KSI	12.0 KSI	5.0 KSI
6061-T6(ROUND & OVAL)	24.0 KSI	10.5 KSI	12.0 KSI	5.0 KSI
- ALUMINUM FRAME, EXTRUSIONS OR VENT EXTRUSIONS MUST MEET THE MINIMUM REQUIREMENTS U.N.O ON THE DRAWINGS.

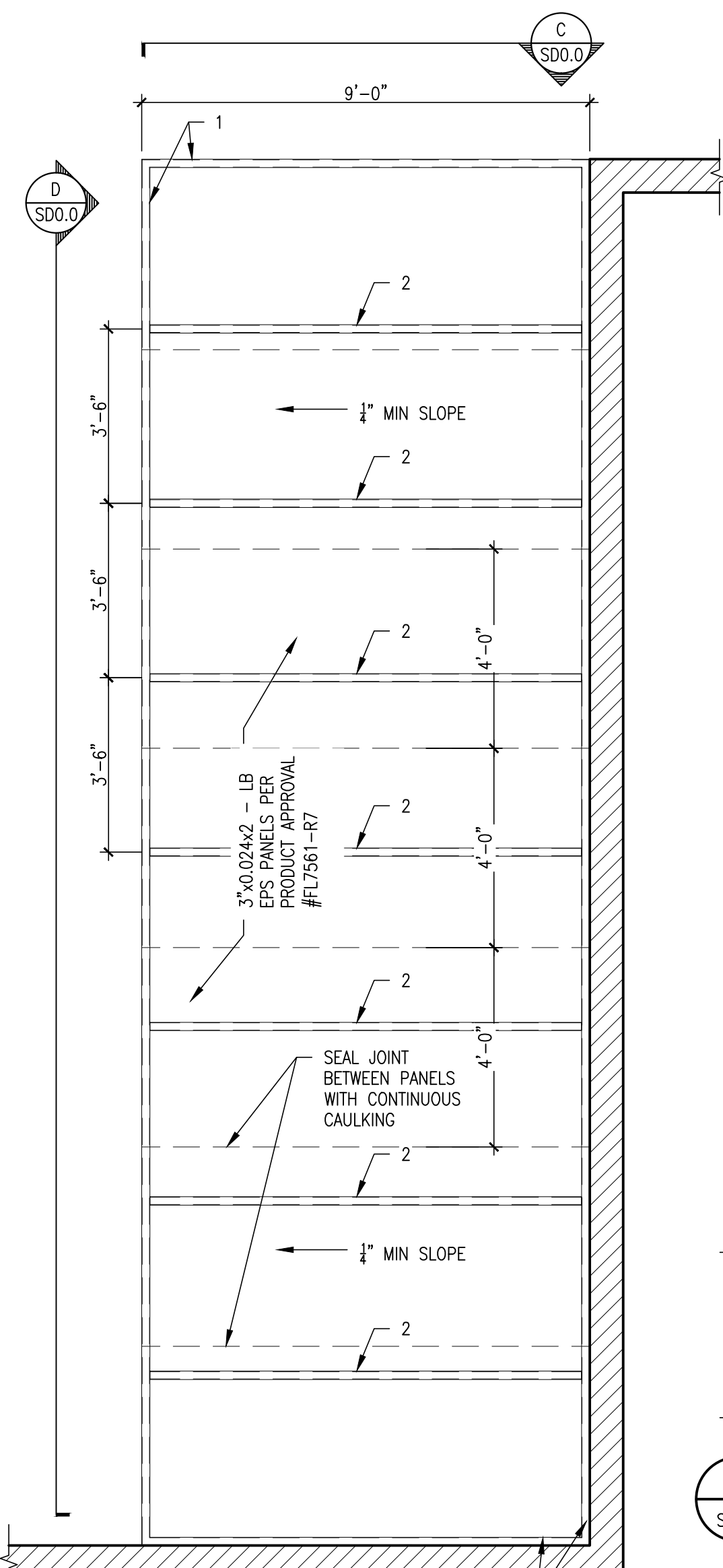
TYPE	F _y	F _y (WELDED)	E _v	E _v (WELDED)
6063-T5(TUBES & SHAPES)	9.5 KSI	4.8 KSI	5.5 KSI	2.8 KSI
6063-T5(ROUND& OVAL)	11.5 KSI	5.5 KSI	5.5 KSI	2.8 KSI
6063-T6(TUBES & SHAPES)	15.0 KSI	4.8 KSI	8.5 KS	2.8 KSI
6063-T6(ROUND & OVAL)	18.0 KSI	5.5 KSI	8.5 KSI	2.8 KSI
6005-T5(TUBES & SHAPES)	19.0 KSI	8.0 KSI	12.0 KSI	4.5 KSI
6005-T5(ROUND & OVAL)	24.0 KSI	9.0 KSI	12.0 KSI	4.5 KSI
- FASTENER, UNLESS DETAILED OTHERWISE, ALL FASTENERS SHALL BE 316 STAINLESS STEEL. ALUMINUM BOLTS, WHERE SPECIFIED, SHALL BE 2024-T4 OR 6061-T6 ALLOY.
- ALL WELDING SHALL CONFORM WITH AWS D1.2, LATEST STRUCTURAL WELDING CODE-ALUMINUM. WELD FILLER ALLOY 5356. CLEANING: SSPC-SP2 "HAND TOOL CLEANING".
- WHERE THE CONTACT OF DISSIMILAR MATERIAL MAY CAUSE ELECTROLYSIS OR WHERE ALUMINUM WILL COME IN CONTACT WITH CONCRETE, MORTAR OR PLASTER, THE CONTACT SURFACE OF ALUMINUM SHALL BE COATED 1 COAT OF ZINC CROMATED PRIMER AND ONE HEAVY COAT OF ALUMINUM PIGMENTED ASPHALT PAINT OR ALKALI-RESISTANT COATINGS, SUCH AS HEAVY-BODIED BITUMINOUS PAINT OR WATER-WHITE METHACRYLATE LACQUER.
- RAILINGS MAY BE WASHED AS NEEDED WITH WATER AND MILD SOAP. DO NOT USE ACIDIC SOLUTIONS, HARSH SOLUTIONS OR ABRASIVE CLEANING MATERIALS OR SOLUTIONS AS THEY COULD HARM THE FINISH.



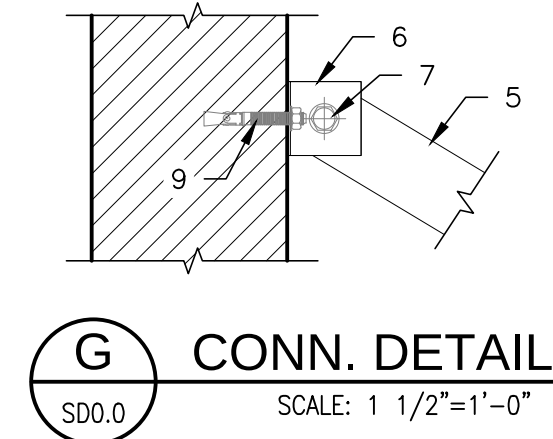
A KEY PLAN
SD0.0 SCALE: 1/16"=1'-0"



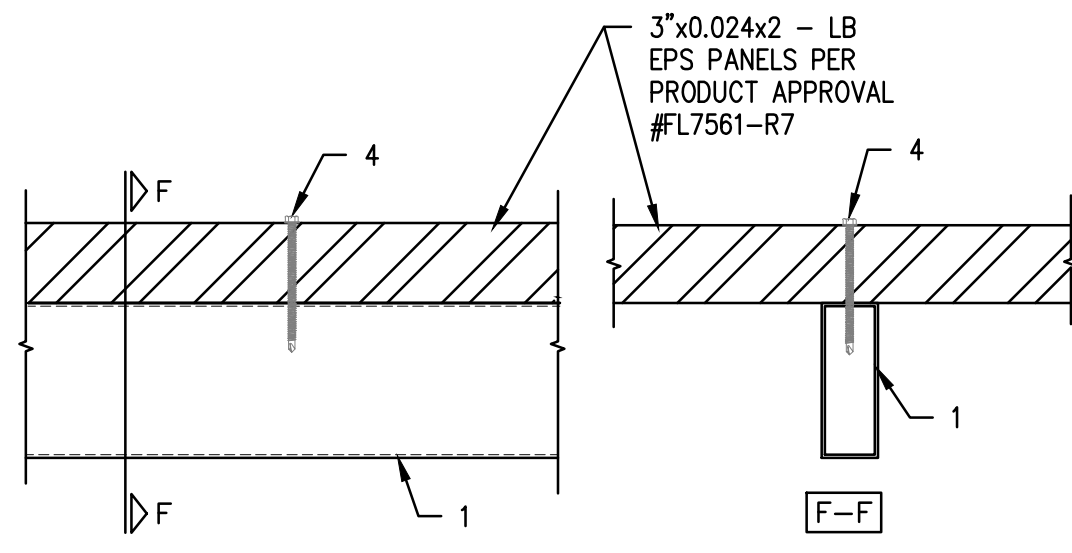
D FRONT ELEVATION
SD0.0 SCALE: 1/2"=1'-0"



B PLAN VIEW
SD0.0 SCALE: 3/8"=1'-0"



G CONN. DETAIL
SD0.0 SCALE: 1 1/2"=1'-0"

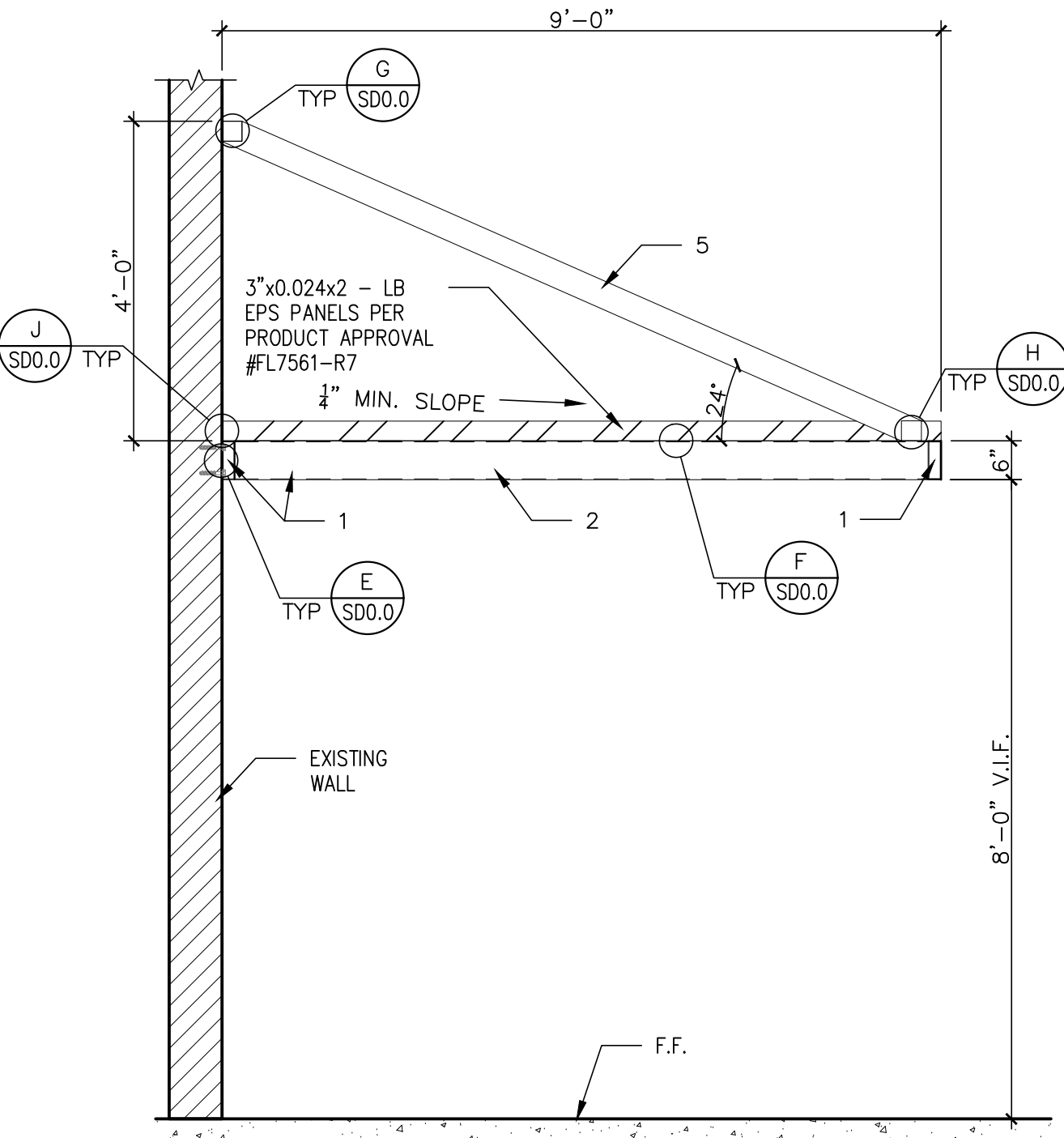


F CONN. DETAIL
SD0.0 SCALE: 1 1/2"=1'-0"

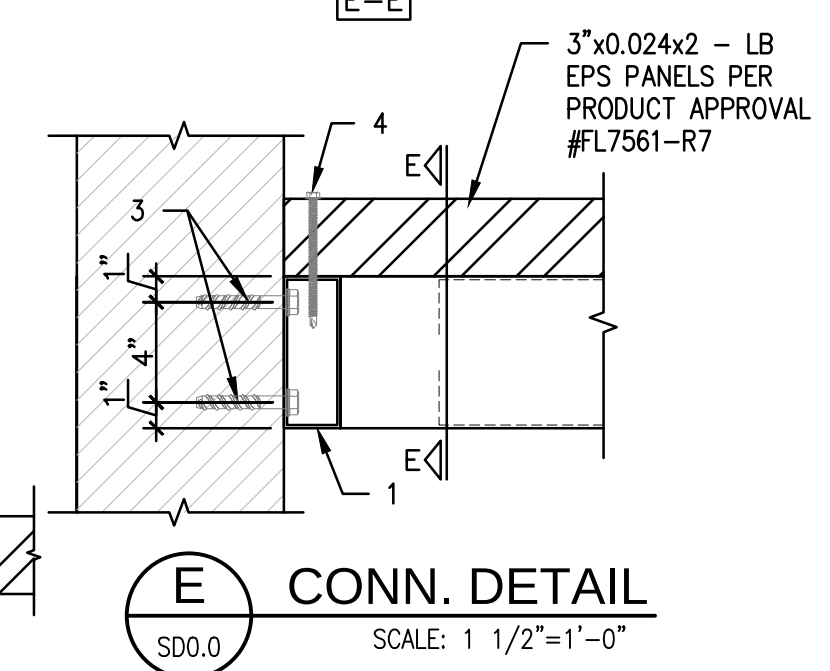
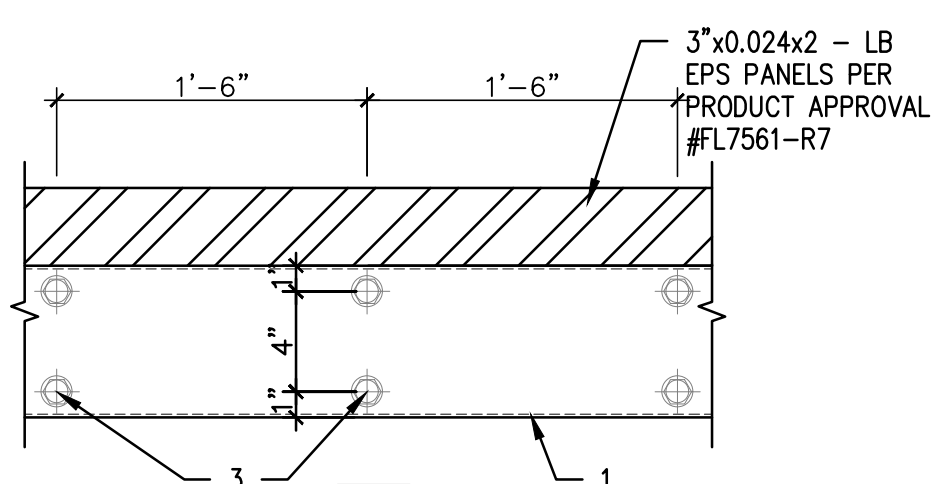
- LEGEND:**
- FRAME ALUMINUM TUBE RT2X6X $\frac{1}{4}$ ALLOY 6061-T6.
 - INTERIOR ALUMINUM TUBE RT2X6X $\frac{1}{4}$ @4'-0" O.C. MAX. ALLOY 6061-T6.
 - $\frac{3}{8}$ " SCREW BOLT W./ 2" MIN. EMBED.
 - $\frac{1}{2}$ " S.M.S W./ $\frac{1}{4}$ " FENDER WASHER AND NEOPHRENE GASKET @12" O.C. CONNECTING ROOF PANELS TO ALUMINUM BEAM.
 - BRACKET ALUMINUM TUBE RT2X2X $\frac{1}{4}$ ALLOY 6061-T6.
 - ALUMINUM ANGLE L3X3X $\frac{1}{4}$ X3" LG. ALLOY 6061-T6.
 - $\frac{3}{8}$ " THRU BOLT A325.
 - ALUMINUM FLAT BAR $\frac{1}{2}$ " THK. X 3" LG. ALLOY 6061-T6.
 - $\frac{3}{8}$ " SCREW BOLT W./ $\frac{3}{4}$ " MIN. EMBED.

- NOTES:**
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
 - CAP PLATE TO BE CONSIDERED WHERE PROFILES MUST NOT BE OPEN.

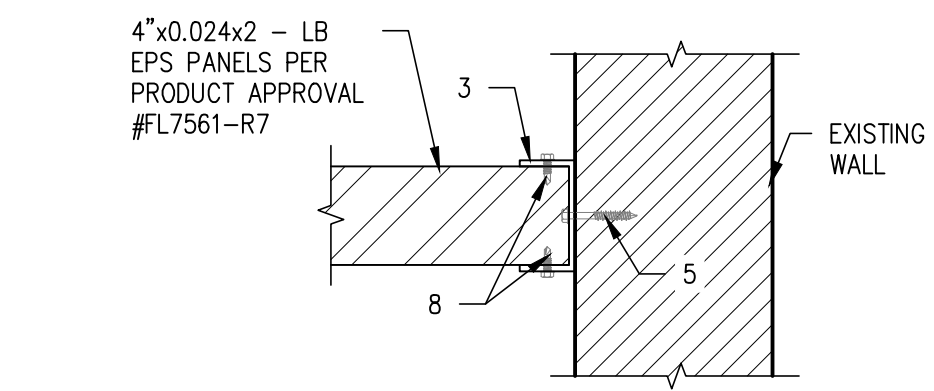
THIS SCOPE NOT INCLUDE ELECTRICAL, MECHANICAL OR PLUMBING WORK.



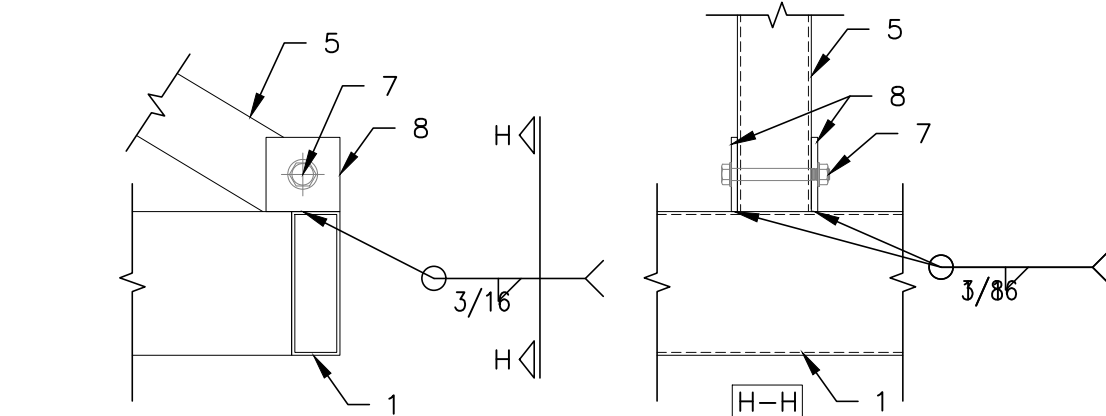
C SIDE ELEVATION
SD0.0 SCALE: 1/2"=1'-0"



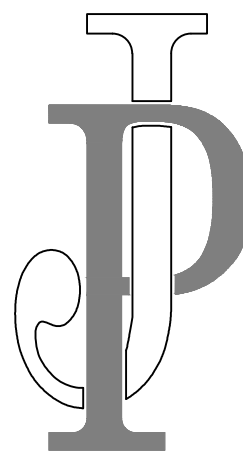
E CONN. DETAIL
SD0.0 SCALE: 1 1/2"=1'-0"



J CONN. DETAIL
SD0.0 SCALE: 1 1/2"=1'-0"



H CONN. DETAIL
SD0.0 SCALE: 1 1/2"=1'-0"



JOSE E. POLANCO
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SEAL
Digitally signed by
Jose E Polanco
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09:12:44
-04'00'

ENGINEER SIGNATURE

THESE DRAWINGS AND DESIGNS ARE THE PROPERTY OF JOSE POLANCO, P.E. AND SHALL NOT BE REPRODUCED WITHOUT HIS WRITTEN CONSENT.

ALUMINUM TERRACE

7465 SW 127ST, PINECREST, FL 33156

PROJECT NAME:
PROJECT ADDRESS:

REVISIONS:
1
2
3
4
5

DRAWN AND DESIGN BY: J.P.
CHECKED BY: J.P.

SHEET NAME:

SD0.0