

# GENERAL STRUCTURAL NOTES

APPLY UNLESS NOTED OTHERWISE

## 1.0 STRUCTURAL ENGINEERING GENERAL REQUIREMENTS:

THE SCOPE OF THE WORK DEFINED ON THESE DRAWINGS IS LIMITED TO THE COLD-FORMED METAL FRAMING (CFS) COMPONENTS ONLY, AND NOT THE SUPPORTING STRUCTURE. THE PREPARER OF THESE DRAWINGS IS NOT RESPONSIBLE FOR THE COORDINATION OF THE COMPONENTS DEFINED IN THESE DRAWINGS WITHIN THE STRUCTURE.

THESE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS PROVIDED. SPECIFIC CONTRACT DOCUMENTS USED IN THE PREPARATION OF THESE DRAWINGS INCLUDE:

### BUILDING CODE:

2018 EDITION OF THE INTERNATIONAL BUILDING CODE / ASCE/SEI 7-16

### DESIGN CRITERIA / LOADS:

ALL COMPONENTS DEFINED IN THESE DRAWINGS ARE BASED ON THE DESIGN CRITERIA AND RESULTING PRESSURES AND FORCES DEFINED BELOW.

#### WIND DESIGN DATA:

RISK CATEGORY = III  
 ULTIMATE DESIGN WIND SPEED,  $V_{ult} = 140$  MPH (3 SEC. GUST)  
 EQUIVALENT NOMINAL DESIGN WIND SPEED,  $V_{asd} = 108$  MPH (3 SEC. GUST, USING  $I = 1.15$ )  
 EXPOSURE C  
 MEAN ROOF HEIGHT USED FOR DESIGN,  $h = 44$  FT  
 $K_d = 0.85$   
 $K_{zt} = 1.0$   
 $K_e = 0.83$   
 INTERNAL PRESSURE COEFFICIENT,  $Gcpi = \pm 0.18$   
 SEISMIC: SEISMIC DESIGN CATEGORY = B

### COORDINATION:

THESE DRAWINGS ARE A SCHEMATIC REPRESENTATION OF THE STRUCTURAL SYSTEM AND REQUIREMENTS FOR THE PROJECT, AND ARE ONLY A PORTION OF THE COMPLETE CONTRACT DOCUMENTS. THE STRUCTURAL SYSTEMS REQUIRE CAREFUL COORDINATION BETWEEN ALL STRUCTURAL COMPONENTS AND MATERIALS SHOWN IN THESE STRUCTURAL DRAWINGS, AND CAREFUL COORDINATION OF INFORMATION SHOWN ON OTHER DISCIPLINES' DRAWINGS IN ORDER TO BE CONSTRUCTED. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS WITH ALL SUBCONTRACTORS AND OTHER RELATED ENTITIES TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. EACH CONTRACTOR SHALL COORDINATE ITS OPERATIONS WITH THE OPERATIONS OF OTHER CONTRACTORS FOR PROPER INSTALLATION, CONNECTION AND OPERATION.

### GENERAL REQUIREMENTS:

ENTIRE CONTRACT DOCUMENTS SHALL BE USED TO BUILD BUILDING. SOME CRITICAL ITEMS REQUIRED BY OTHER DISCIPLINES MAY NOT BE SHOWN ON STRUCTURAL DRAWING (i.e. WALL, FLOOR AND ROOF OPENING, ARCHITECTURAL, MECHANICAL AND PLUMBING LOADS, SUPPORT PLATES ETC.). IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO PERFORM CAREFUL COORDINATION BETWEEN TRADES DURING CONSTRUCTION.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. SPECIFIC DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER TYPICAL DETAILS AND GENERAL STRUCTURAL NOTES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ENGINEER IMMEDIATELY UPON DISCOVERY.

DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS OF ANY KIND.

ALL PROPRIETARY ITEMS, MATERIALS AND COMPONENTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, GUIDELINES AND/OR RECOMMENDATIONS.

THESE DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO, NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS.

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF THEY CHOOSE AN OPTION, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

DETAILS INDICATED AS TYPICAL (i.e., TYP) APPLY TO ALL SIMILAR CONDITIONS.

ALL DIMENSIONS SHOWN (INCLUDING ELEVATIONS) ON DRAWINGS ARE TO ASSIST CONTRACTOR IN VERIFICATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH CONTRACT DOCUMENTS PRIOR TO START OF CONSTRUCTION - NOTIFY ENGINEER OF ANY DISCREPANCY PRIOR TO START OF CONSTRUCTION.

## 5.0 METALS:

### COLD FORMED STRUCTURAL STEEL FRAMING:

ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE.

ALL PROPRIETARY ITEMS, MATERIALS AND COMPONENTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, GUIDELINES AND/OR RECOMMENDATIONS.

STEEL FOR 12, 14 AND 16 GAGE STUDS, JOISTS, TRACKS AND FOR ALL DIAGONAL TENSION STRAPS SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI. STEEL FOR ALL 18 AND 20 GAGE STUDS, JOISTS, AND TRACKS, AND FOR ALL GAGES OF ACCESSORIES AND BRIDGING SHALL HAVE A MINIMUM YIELD STRENGTH OF 33 KSI. STEEL SHALL BE G60 GALVANIZED. STEEL SHEET FOR ALL STRUCTURAL FRAMING SHOWN IN THESE DRAWINGS SHALL CONFORM TO ASTM A 1003/A 1003M, STRUCTURAL GRADE, TYPE H, METALLIC COATED.

UNLESS SPECIFICALLY NOTED ELSEWHERE WITHIN THESE ENGINEERED COLD FORMED METAL FRAMING SHOP DRAWINGS, THE FOLLOWING SHALL APPLY AS A MINIMUM. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, BEAM BEARINGS AND JOIST BEARINGS. BRIDGING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION WITH THE FOLLOWING MINIMUM REQUIREMENTS.

BRIDGING SHALL BE STEEL CHANNEL MADE FROM ASTM A1003/A1003M, STRUCTURAL GRADE, TYPE H, METALLIC COATED STEEL SHEET, OF SAME GRADE AND COATING DESIGNATION USED FOR FRAMING MEMBERS.

PROVIDE WALL BRIDGING AS NOTED ON THE DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

PROVIDE SOFFIT AND JOIST BRIDGING AS NOTED ON THE DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

BRIDGING CLIPS TO PROVIDE ATTACHMENT TO STUD WEB AND WRAP AROUND THE BRIDGING CHANNEL. BRIDGING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM A1003/A1003M (OR ASTM A653/A653M). ALL STRUCTURAL FRAMING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO ASTM A1003 G-60 GALVANIZED COATING.

WHEN REQUIRED, DEFLECTION CONNECTIONS SHALL ALLOW FOR POSITIVE ATTACHMENT TO STRUCTURE AND STUD WEB AND SHALL PROVIDE FRICTIONLESS, VERTICAL MOVEMENT. CONNECTION PRODUCTS ARE REQUIRED TO HAVE A VALID ICC ES REPORT OR EQUIVALENT COMPLYING WITH ICC ACCEPTANCE CRITERIA AC261. ALL STRUCTURAL FRAMING ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M).

RIGID CONNECTIONS FOR ATTACHMENT OF METAL FRAMING TO METAL FRAMING AND TO THE PRIMARY STRUCTURE SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI AND HAVE MINIMUM PROTECTIVE COATING EQUAL TO COMPLYING WITH ASTM 1003/A1003M (OR ASTM A653/A653M).

ALL MEMBERS TO BE MANUFACTURED BY A MEMBER OF "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA), OR APPROVED EQUAL.

POWDER ACTUATED FASTENERS (PAF'S) SHALL BE HILTI X-U 0.157" DIA. OR APPROVED EQUAL. RE: DETAILS FOR EMBED INTO CONCRETE; RE: MFR FOR REQ'D EMBED. IN STEEL.

ALL SCREWS TO BE #10 U.N.O., SCREWS ATTACHED PER MFR. INSTRUCTIONS AND SHALL PENETRATE 3 THREAD MINIMUM BEYOND THE ATTACHED MATERIAL.

ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE STRUCTURAL STEEL FRAMING WORK.

DO NOT NOTCH FLANGES OF JOISTS OR STUDS.

HEADERS, JAMBS, STUDS, JOISTS, RAFTERS, KICKERS AND GIRTS SHALL BE INSTALLED IN ONE-PIECE LENGTHS WITH NO SPLICES PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE DRAWINGS.

## 05 40 00 SPECIFICATION

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. THIS SECTION INCLUDES THE FOLLOWING:
  - a. EXTERIOR NON-LOAD BEARING WALL AND SOFFIT FRAMING.

#### 1.2 SUBMITTALS

- A. SHOP DRAWINGS:
  - a. INCLUDE LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD-FORMED STEEL FRAMING; AND FASTENINGS AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS.
  - b. INDICATE OPENINGS FRAMING, STRAPPING, BRACING, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.
- B. DELEGATED DESIGN SUBMITTAL.

#### 2.0 PERFORMANCE REQUIREMENTS

- A. DESIGN LOADS: AS INDICATED ON DRAWINGS.
- B. EXTERIOR NON-LOAD BEARING FRAMING HORIZONTAL DEFLECTION OF L/360.
- C. EXTERIOR SOFFIT FRAMING OUT OF PLANE DEFLECTION LIMIT OF L/360.

#### 2.1 EXTERIOR NON-LOAD BEARING FRAMING

- A. MINIMUM BASE-METAL THICKNESS: 0.0329 IN
- B. MINIMUM BASE-METAL THICKNESS IF WELDING: 0.0538 IN
- C. STUD FLANGE MINIMUM: 1 5/8"
- D. TRACK FLANGE MINIMUM: 1 1/4"

NOTE: GENERAL STRUCTURAL NOTES OFTEN INCLUDE A SECTION SPECIFICALLY FOR THE COLD-FORMED STEEL FRAMING. THIS SECTION OUTLINES SPECIFIC CODE AND COMPLIANCE REQUIREMENTS FOR THE FRAMING. THESE REQUIREMENTS WILL BE MET IF YOU DESIGN USING CFSEI TECH NOTE ADVICE.

### INSTRUCTIONS:

BUILDING CONTRACT DOCUMENT DRAWINGS CONTAIN DETAILS AND DESIGN REQUIREMENTS FROM THE DESIGN TEAM (ARCHITECT, STRUCTURAL ENGINEER, MEP ENGINEER) WITH ENOUGH DETAIL FOR THE BUILDING TO BE PERMITTED, THEN PRICED AND PROCURED BY A BUILDER (GENERAL CONTRACTOR). THE DETAILS IN THE CONTRACT DOCUMENTS, HOWEVER, ARE PURPOSEFULLY LEFT WITH SOME GENERAL REQUIREMENTS TO ALLOW EACH TRADE TO ECONOMIZE THE CONSTRUCTION AND MATERIALS BASED ON THEIR EXPERTISE. CFS FRAMING DESIGN AND DETAILING IS OFTEN DELEGATED TO THE CONTRACTOR TO FIGURE OUT THE PRECISE MATERIALS, CONNECTIONS, AND FRAMING METHODS WHILE STILL FOLLOWING THE GENERAL REQUIREMENTS SET FORTH BY THE DESIGN TEAM.

TO THE LEFT, WE HAVE PROVIDED TYPICAL DETAILS, GENERAL STRUCTURAL NOTE REQUIREMENTS, AND SPECIFICATION REQUIREMENTS THE CFS ENGINEER AND DETAILER MIGHT FIND IN THE CONTRACT DOCUMENTS OF A PROJECTS. THESE ITEMS ARE USUALLY SPREAD OUT WITHIN THE LARGE SETS OF CDS THAT ALSO SHOW THE REST OF THE BUILDING.

THIS PARTICULAR DETAIL REQUIRES THE CFS ENGINEER AND DETAILER TO DETERMINE THE BEST FRAMING SOLUTION BASED ON THE PROVIDED GENERAL REQUIREMENTS FROM THE STRUCTURAL ENGINEER AND ARCHITECT. YOU MUST FRAME THIS SOFFIT SO IT IS STRUCTURALLY SOUND, AND ALSO CREATES THE REQUIRED SOFFIT SHAPE SHOWN BY THE ARCHITECT.

### REFERENCE GUIDE AND HELP:

STUDENTS CAN USE ALL CFSEI TECH NOTES AND OBTAIN A FREE COPY OF CFS DESIGN SOFTWARE FROM SIMPSON STRONG-TIE TO HELP CHECK THEIR WORK. PLEASE EMAIL THE ORGANIZER FOR ADDITIONAL INSTRUCTIONS TO OBTAIN THE REFERENCE MATERIAL IF NOT ALREADY PROVIDED ON THE WEBSITE.

COMPETITION INFORMATION:  
[https://cfsei.net/student\\_competition\\_2022](https://cfsei.net/student_competition_2022)

EMAIL:  
[GHALL@CEMCOSTEEL.COM](mailto:GHALL@CEMCOSTEEL.COM)

ABBREVIATIONS			
AFF	ABOVE FINISHED FLOOR	IFW	INSIDE FACE OF WALL
ALT	ALTERNATE	IT	PRECAST INVERTED TEE BEAM
AB	ANCHOR BOLT	K (KIP)	1000 POUNDS
ADD'L	ADDITIONAL	LB	PRECAST ELL BEAM
ARCH	ARCHITECT	LBS (#)	POUNDS
ARCH'L	ARCHITECTURAL	LL	LIVE LOAD
@	AT (MEASUREMENT)	LLH	LONG LEG HORIZONTAL
BM	BEAM	LLV	LONG LEG VERTICAL
BFF	BELOW FINISHED FLOOR	LOC	LOCATION
BOB	BOTTOM OF BEAM	LVL	LAMINATED VENEER LUMBER
BOB	BOTTOM OF DECK	MAS	MASONRY
BOF	BOTTOM OF FOOTING	MAS CJ	MASONRY CONTROL JOINT
BOT (B)	BOTTOM	MAX	MAXIMUM
BRD	BEARING	NBM	METAL BUILDING MANUFACTURER
CFS	COLD FORMED STEEL	MECH'L	MECHANICAL
GSS	CENTER OF GRAVITY STRAND	MFR('S)	MANUFACTURER('S)
CIP	CAST IN PLACE	MIN	MINIMUM
CL	CENTERLINE	MPI1	MFR PRINTED INSTALLATION INSTRUCTIONS
CJ	CONTROL JOINT	N/A	NOT APPLICABLE
CJP	COMPLETE JOINT PENETRATION	NTS	NOT TO SCALE
CTR'D	CENTERED	OC	ON CENTER
CLB	CENTERLINE OF BEAM	OFW	OUTSIDE FACE OF WALL
CLC	CENTERLINE OF COLUMN	OH	OPPOSITE HAND
CLF	CENTERLINE OF FOOTING	OPP	OPPOSITE
CLW	CENTERLINE OF WALL	OPNG	OPENING
CLR	CLEAR	OS	OVERSIZED
COL	COLUMN	OSS	ORIENTED STRAND BOARD
CONC	CONCRETE	PAF	POWDER ACTUATED FASTENER
CMU	CONCRETE MASONRY UNIT	PC	PRECAST CONCRETE
CONN	CONNECTION	PEMB	PRE-ENGINEERED METAL BUILDING
CONT	CONTINUOUS	PFWT	PREFABRICATED WOOD TRUSS
d	PENNY (SIZE)	PJ	PANEL JOINT
DAS	DEFORMED ANCHOR STUD	PL	PLATE
DEG	DEGREE	PLF	POUNDS PER LINEAR FOOT
DIA	DIAMETER	PLWD	PLYWOOD
DL	DEAD LOAD	PREFAB	PREFABRICATED
DP	DEEP OR DRILLED PIER	PSF	POUNDS PER SQUARE FOOT
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DTL	DETAIL	PT	POST TENSION
DWG(S)	DRAWING(S)	PTL	PRESSURE TREATED LUMBER
EA	EACH	RB	PRECAST RECTANGLE BEAM
EC	EPOXY COATED	RE	REFERENCE
EE	EACH END	REIN	REINFORCING
EL	ELEVATION	REQ'D	REQUIRED
ENGR	ENGINEER	RS	ROUGH SAWN
EOS	EDGE OF SLAB	SCHED	SCHEDULE
EQ	EQUAL	SLH	SHORT LEG HORIZONTAL
EQUIP	EQUIPMENT	SLV	SHORT LEG VERTICAL
EXIST (E)	EXISTING	SM	SIMILAR
		SOG	SLAB ON GRADE
EXP ANCH	EXPANSION ANCHOR	SOV	SLAB ON VOID
EXP JT (EJ)	EXPANSION JOINT	SQ	SQUARE
EW	EACH WAY	STD	STANDARD
FDN	FOUNDATION	STL	STEEL
FF	FINISHED FLOOR	T&B	TOP AND BOTTOM
FLM	FACE OF MEMBER	TL	TOTAL LOAD
FW	FACE OF WALL	TJI	PLYWOOD WEB JOIST
FP	FIRE PROOFING	TOB	TOP OF BEAM
FTG	FOOTING	TOC	TOP OF CONCRETE
FV	FIELD VERIFY	TOD	TOP OF DECK
GA	GAGE	TOF	TOP OF FOOTING
GALV	GALVANIZED	TOL	TOP OF LEDGER
GSN	GENERAL STRUCTURAL NOTES	TOM	TOP OF MASONRY
GLB (GLULAM)	GLUED-LAMINATED BEAM	TOP	TOP OF PLATE
GT	GIRDER TRUSS	TOS	TOP OF STEEL
HC	PRECAST HOLLOW CORE PLANK	TOW	TOP OF WALL
HAS	HEADED ANCHOR STUD	TYP	TYPICAL
HDS	HOT-DIP GALVANIZED	UNO	UNLESS NOTED OTHERWISE
HK	HOOK	VERT	VERTICAL
HORIZ	HORIZONTAL	WP	WORK POINT
HT	HEIGHT	WWF	WELDED WIRE FABRIC
		W/ (w/)	WITH
		W/O (w/o)	WITHOUT

USE ASCE 7-16 TO CALCULATE YOUR WIND PRESSURES FOR DESIGN

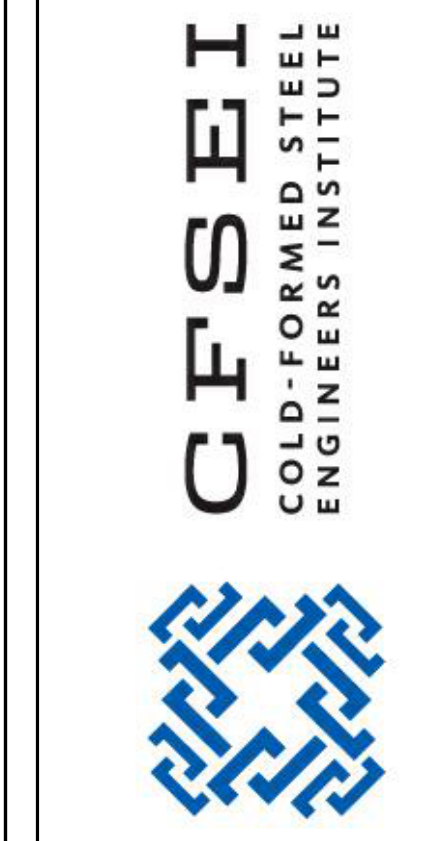
NOTE: FOR THIS PROJECT, NEGLECT ANY SNOW OR RAIN LOADING.

FOR THIS PROJECT, ASSUME SEISMIC WILL NOT CONTROL AND FOCUS ON WIND AND GRAVITY LOADING.

NOTE: THESE ARE SOME STANDARD GENERAL STRUCTURAL NOTE REQUIREMENTS APPLIED TO MANY PROJECTS. THEY DO NOT NECESSARILY EFFECT YOUR CFS DESIGN.

THE 05 40 00 SPECIFICATION WILL OUTLINE SPECIFIC MATERIAL AND DESIGN LIMITATIONS FOR THIS PROJECT.

REVISIONS	CURRENT	REVISION:	0
#	0	DESCRIPTION	ISSUE DATE
		ISSUE FOR APPROVAL	

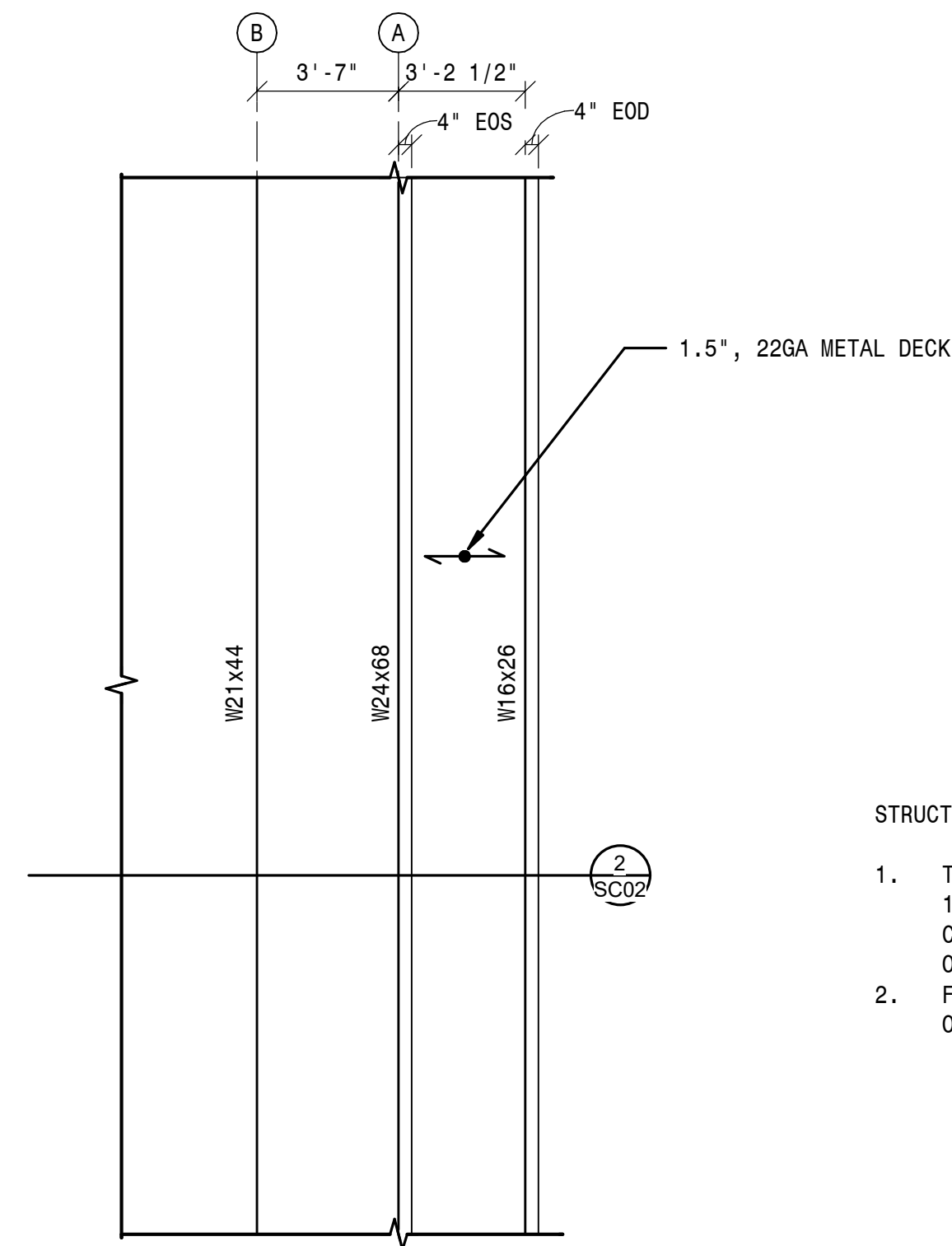


STUDENT DESIGN  
 COMPETITION 2022  
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DRAWING TITLE  
 GENERAL STRUCTURAL  
 NOTES

DR. ....  
 DSGN. ....  
 CK. ....  
 DATE .....  
 JOB NO. ....

SHEET NUMBER  
 SC01



STRUCTURAL PLAN NOTES:

1. TOP OF STEEL IS 7 1/2" BELOW TOP OF CONC UNLESS NOTES OTHERWISE.
2. FLOOR IS 4 1/2" CONC OVER 3" METAL DECK.

**STRUCTURAL PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH

COMPETITION NOTES:

THE CFS ENGINEER MUST USE THE CONTRACT DOCUMENTS TO DESIGN AND DETAIL THE CFS SYSTEM FOR THE STUD FRAMER TO USE. THE DESIGN TEAM (THE ENGINEER OF RECORD AND ARCHITECT) OFTEN REQUIRE SHOP DRAWING SUBMITTALS FOR THIS SCOPE OF WORK TO ENSURE COORDINATION OF THE SYSTEM IS UNDERSTOOD BY THOSE BUILDING IT, AND CONFIRMING THERE ARE NO ISSUES SEEN BY THE SPECIALTY ENGINEER AND BUILDER.

THE PLAN AND DETAILS BELOW ARE EXCERPTS THAT MIGHT BE SEEN IN AN OVERALL SET OF CONTRACT DOCUMENTS. THE DELEGATED CFS DESIGNER NEEDS TO COORDINATE THE STRUCTURAL AND ARCHITECTURAL REQUIREMENTS SEEN IN THESE DETAILS TO FINALIZE THE CFS DESIGN AND FRAMING DETAILING FOR THE STUD FRAMER TO COMPLETE THE WORK.

EACH DETAIL BELOW IS FOCUSED SHOWING DIFFERENT REQUIREMENTS: THE STRUCTURAL DETAILS ARE FOCUSED ON THE SUPPORT OF THE STRUCTURE AND LOAD PATH TO FOUNDATION, AND MAY NOT SHOW ARCHITECTURAL ITEMS PERFECTLY; THE ARCHITECTURAL DETAIL IS FOCUSED ON MAINTAINING A PROPER BUILDING ENVELOPE, HOW THE ASSEMBLIES ALIGN, AND HOW THE FINISHED PRODUCT LOOKS, AND MAY NOT SHOW STRUCTURAL ITEMS PERFECTLY. THE CFS DESIGNER NEEDS TO CREATE A FRAMING SOLUTION THAT MEETS BOTH STRUCTURAL AND ARCHITECTURAL REQUIREMENTS.

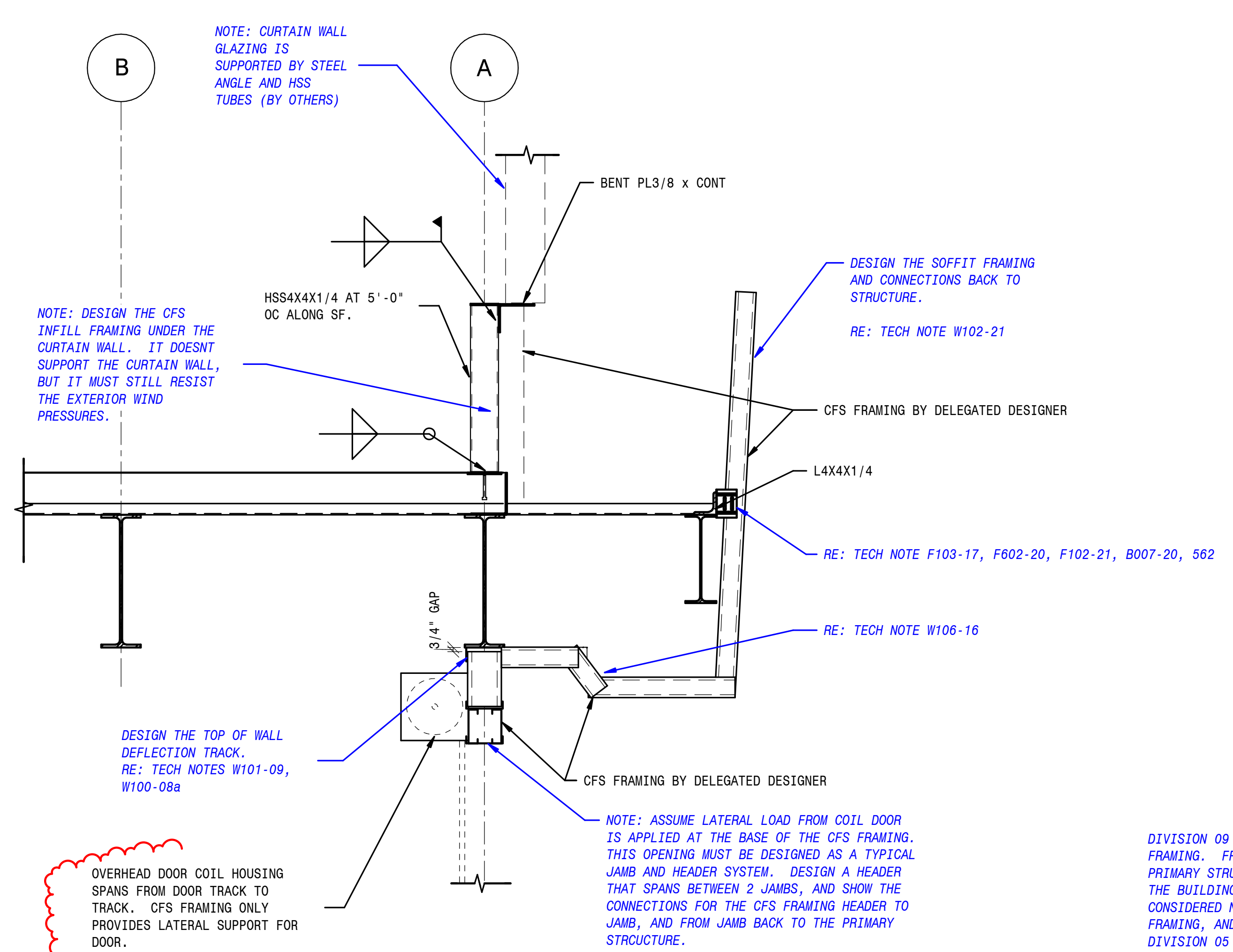
CFSEI TECH NOTE REFERENCES:

- B001-20: HOW COLD-FORMED STEEL FRAMING IS PRODUCED
- B002-20: HOW COLD-FORMED STEEL IS USED IN BUILDING CONSTRUCTION
- G200-21: LOAD PATH CONSIDERATIONS FOR COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION
- W102-21: INTRODUCTION OF CURTAIN WALL DESIGN USING COLD-FORMED STEEL

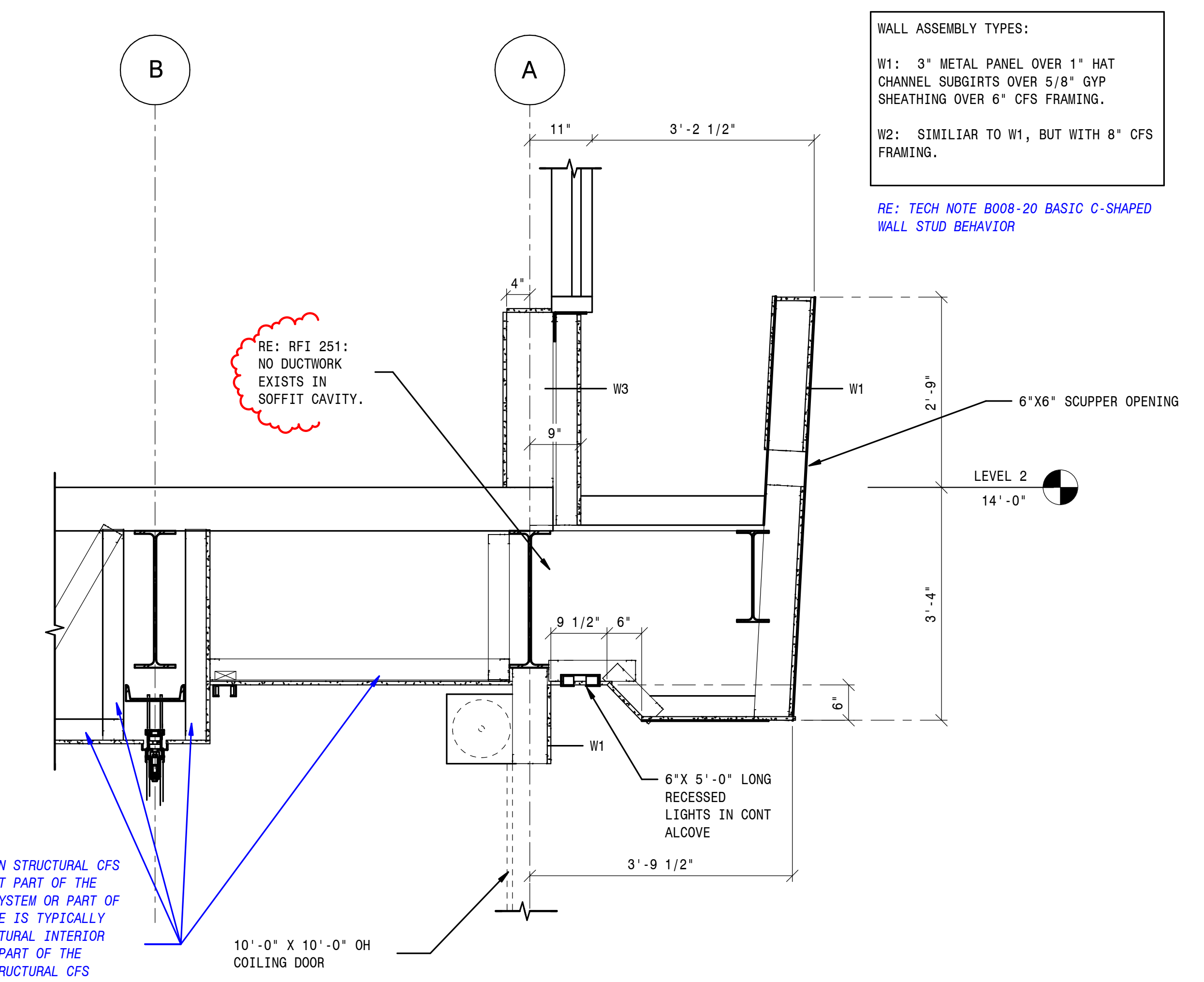
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STUDENT DESIGN  
COMPETITION 2022  
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**2 STRUCTURAL FRAMING DETAIL**  
NO SCALE



**1 ARCHITECTURAL SECTION AT ACCESS PLATFORM**  
NO SCALE

DRAWING TITLE  
CONTRACT DRAWING  
EXCERPTS

DR. ....  
DSGN. ....  
CK. ....  
DATE ....  
JOB NO. ....

SHEET NUMBER  
**SC02**