

THE DESIGN CRITERIA FOR THIS PROJECT IS AS FOLLOWS:

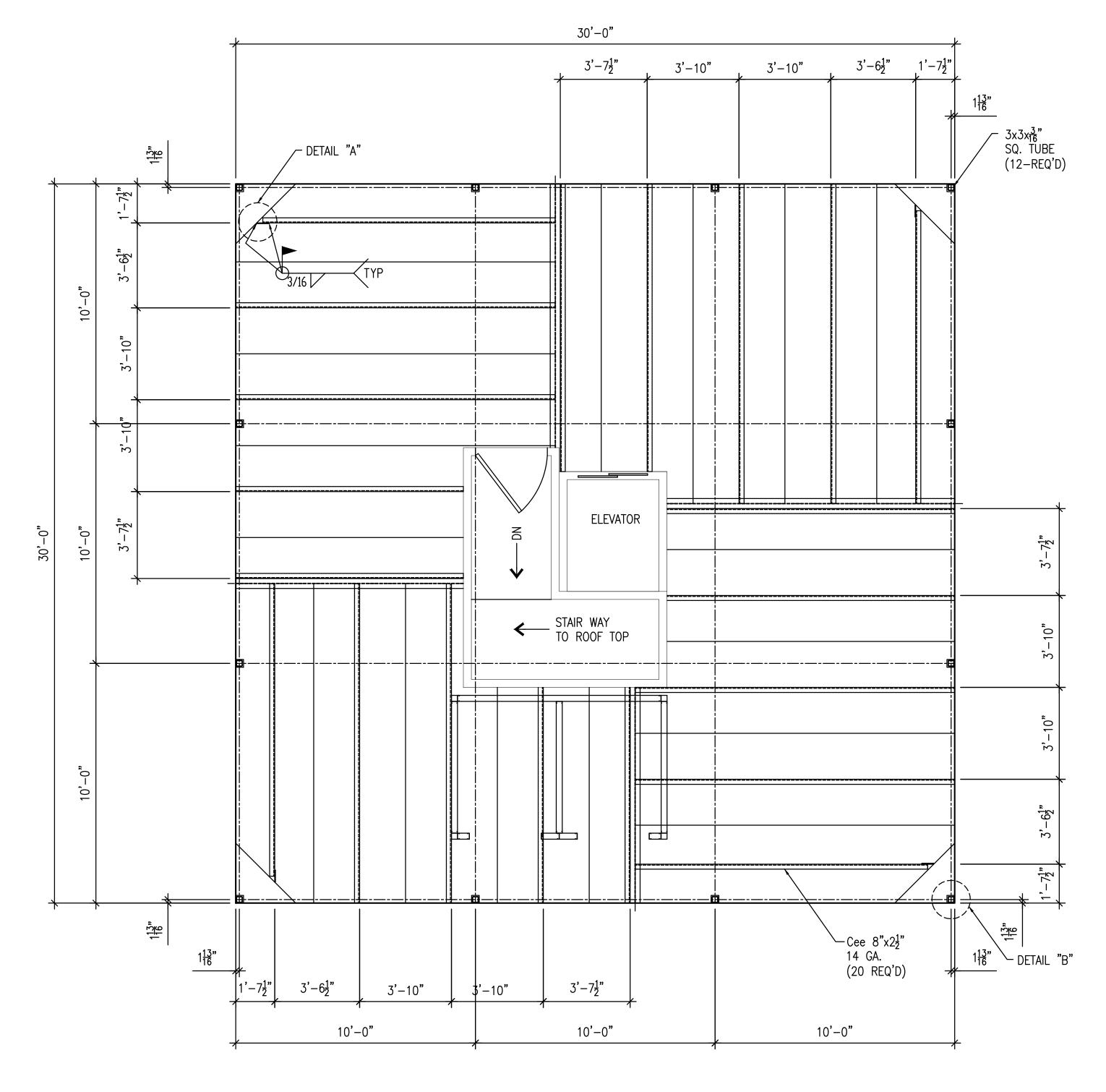
BUILDING CODE : IRC-2006 CATEGORY: II, EXPOSURE: B

IMPORTANCE FACTOR = 1.00

= 20.0 PSF PURLINS ROOF LIVE LOAD

ROOF LIVE LOAD = 12.0 PSF FRAMES

= 100.00 M.P.H. WIND LOAD DEAD LOAD = 3 PSF COLLATERAL LOAD = 0.00 P.S.F. PANEL DEFLECTION = L/180



ROOF FRAMING PLAN (EXISTING) UNLESS NOTED

AS BUILT SET OF DRAWINGS

ISSUED FOR APPROVAL

MTZ

MTZ CAD SERVICES INC. 2500 STRAVBERRY PASADENA IX 77502 STRUCTURAL AND ARCHITECTURAL AutoCAD DRAFTING (713) 477-0559 (713) 419-0638

DESIGN & PLANNING SERVICES ALL DRAWINGS HAVE BEEN REVIEWED AND COMPLY TO SUITE OWNER'S SPECIFICATIONS.
ALL REASONABLE ATTEMPTS AND PRECAUTIONS HAVE BEEN MADE TO AVOID OWNER CONFLICT.
THE OWNER AND/OR CONTRACTOR SHALL VERIFY AND APPROVE ALL DIMENSIONS, DETAILS AND SPECIFICATIONS BEFORE CONSTRUCTION MAY COMMENCE.

DETAILS 77009 \approx HOUSTON, SECTIONS TOWER SI. \geq **RAVE**] NORTH FRAMING 310 CUSTOMER: ADDRESS: ROOF A 02/10/15 FOR APPROVAL

2015_JOBS/J. PASILLAS
Project No:

02/10/15

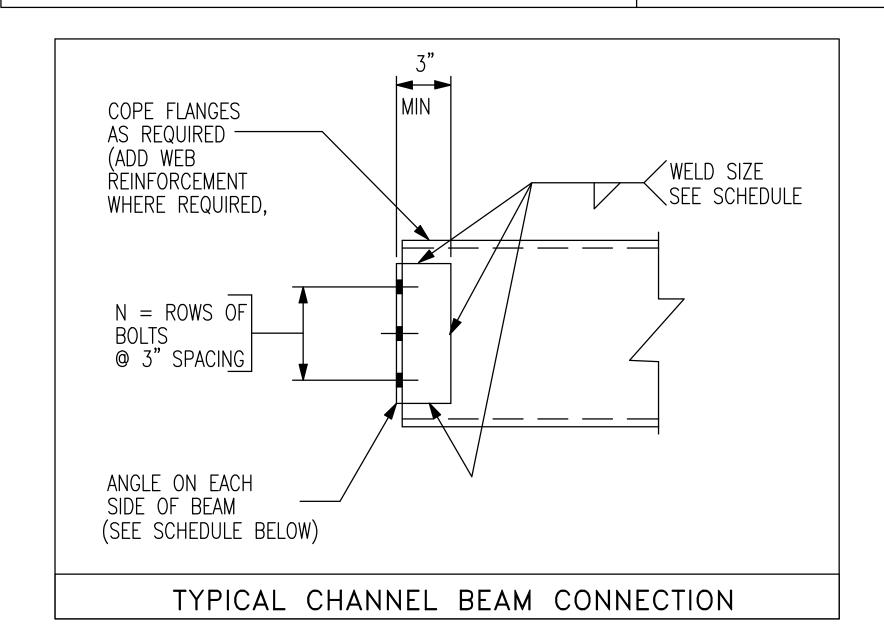
ROOF PLAN S-1

CONNECTIONS NOTES

- 1 ALL BOLTS SHALL BE 3/4" DIAMETER AND SHALL BE FURNISHED WITH 1-HEAVY HEX NUT, GRADE DH & 1-WASHER EACH UNLESS NOTED OTHERWISE.
- 2 SHOP CONNECTIONS SHALL BE WELDED
- FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS WITH THE EXCEPTION OF PURLINS, GIRTS, LADDERS AND HANDRAILS FOR WHICH 5/8" DIAMETER ASTM A307 MACHINE BOLTS SHALL BE USED, UNLESS OTHERWISE NOTED.
- 4 BOLTED CONNECTIONS SHALL BE MADE WITH A MINIMUM OF TWO (2) BOLTS UNLESS OTHERWISE NOTED.
- 5 ALL HOLES FOR BOLTS SHALL BE 1/16" LARGER THAN BOLT DIAMETER, UNLESS OTHERWISE NOTED.
- 6 ALL WELDED CONNECTIONS SHALL BE SEAL WELDED WITH 1/8" FILLET WELDS (FOR GALVANIZING).
- 7 IF THE SIZE OF A FILLET WELD IS NOT SHOWN ON THE DRAWINGS, PROVIDE THE MINIMUM FILLET WELD AS SHOWN IN TABLE J2.4 OF THE AISC SPECIFICATION.
- 8 BOLTS SHALL BE BEARING TYPE, UNLESS OTHERWISE NOTED.
- 9 BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS, NOT DETAILED ELSEWHERE, SHALL COMPLY WITH DETAIL 1, THIS DRAWING, WITH THE NUMBER OF ROWS OF BOLTS, N, CORRESPONDING TO THE BEAM SIZE IN THE SCHEDULE. ADDITIONALLY, FOR COPED BEAMS, THE FABRICATOR SHALL DESIGN WEB REINFORCEMENT, WHERE

REQUIRED, USING THE METHODS AND DATA PRESENTED IN "ENGINEERING FOR STEEL CONSTRUCTION" BY AISC. REINFORCE-MENT SHALL BE DESIGNED FOR THE REACTIONS SPECIFIED ON THE DRAWINGS, OR IF THE REACTIONS HAVE NOT BEEN SPECIFIED, FOR ONE HALF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN PART 2 OF THE AISC MANUAL BUT NOT LESS THAN 6 KIPS.

- 10 BRACING CONNECTIONS WHICH HAVE NOT BEEN DETAILED SHALL HAVE END CONNECTION CAPABLE OF DEVELOPING THE CAPACITY OF THE BRACING MEMBER IN TENSION UNLESS NOTED OTHERWISE ON THE DRAWINGS. WHEN NOTED, THE END CONNECTION SHALL BE CAPABLE OF DEVELOPING THE SPECIFIED COMPRESSION (-), OR TENSION (+) FORCE. THE WORK POINT SHALL BE AT THE CENTERLINE OF BEAM AND COLUMN UNLESS OTHERWISE NOTED.
- 11 ALL GUSSET PLATES SHALL BE 3/8" MINIMUM THICKNESS UNLESS OTHERWISE NOTED OR SHOWN.
- 12 GUSSET PLATES FOR VERTICAL DIAGONAL BRACING SHALL CONNECT TO BOTH THE BEAM AND COLUMN UNLESS OTHERWISE NOTED OR SHOWN.
- 13 ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED PER AISC TURN-OF-NUT METHOD AS SPECIFIED IN "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".



BEAM SIZE	MIN N*	MINIMUM CONNECTION ANGLE THICKNESS	MIN WEB WELD
	-	IN	IN
C8,W8 (ALL) C9,C10,W10 (ALL) C12,W12 (COPED)	2	5/16	3/16
C12,W12(UNCOPED) W14,C15 (ALL) W16 (COPED)	3	5/16	3/16
W16 (UNCOPED) W18 (ALL)	4	5/16	1/4
W21 (ALL)	5	5/16	1/4
W24 (ALL)	6	5/16	1/4
W27 (ALL)	7	5/16	1/4
W30 (ALL)	8	5/16	1/4
W33,W36 (ALL)	9	5/16	1/4

* WHERE COPE DEPTHS ARE SUCH THAT THE NUMBER OF BOLTS IN SCHEDULE WILL NOT FIT, THE FABRICATOR SHALL SELECT THE NUMBER OF BOLTS USING THE REACTIONS SPECIFIED BY NOTE NO. 9

SCHEDULE

AS BUILT SET OF DRAWINGS

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IMPORTANCE FACTOR = 1.00

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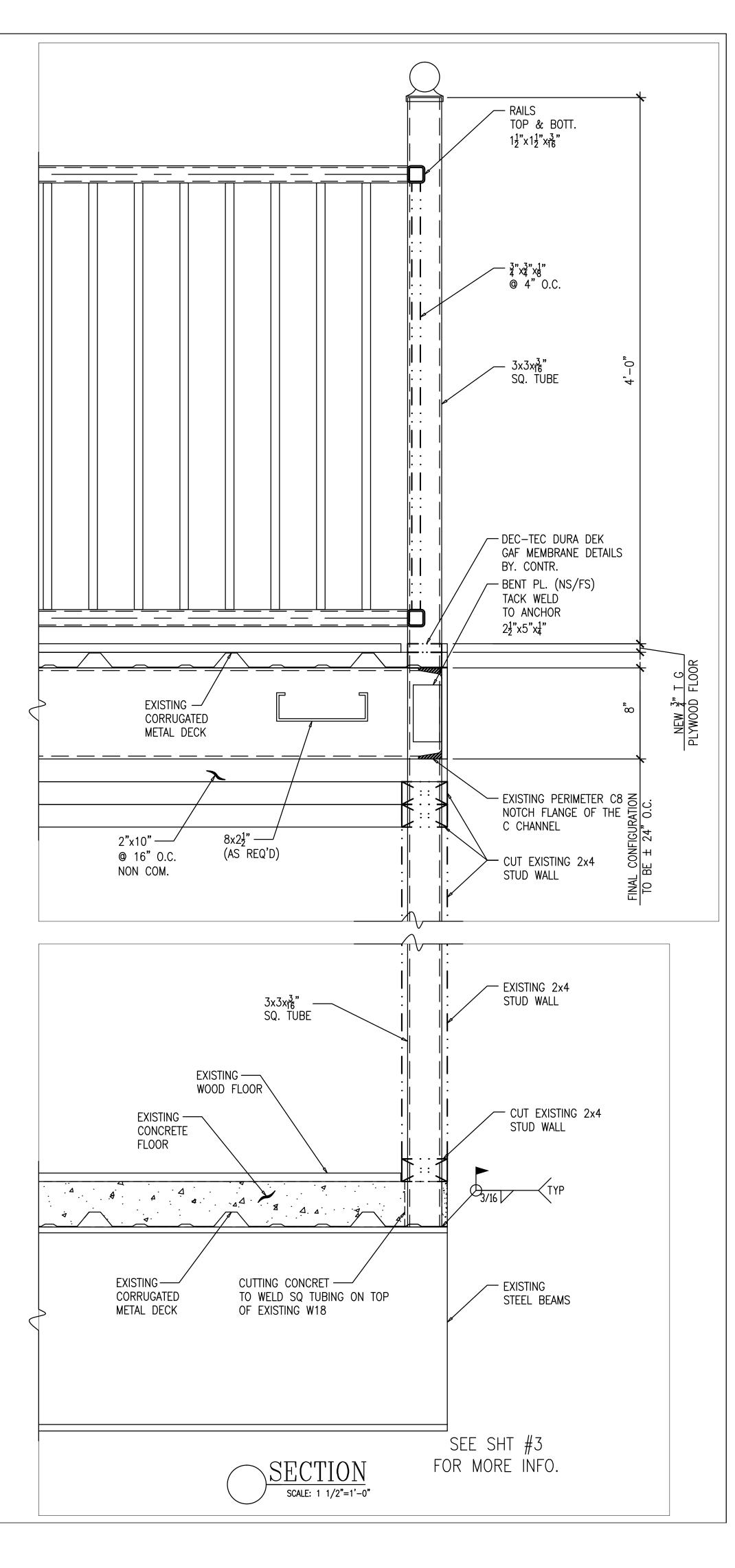
WIND LOAD

= 100.00 M.P.H.

DEAD LOAD = 3 PSF COLLATERAL LOAD = 0.00 P.S.F.

PANEL DEFLECTION = L/180

ISSUED FOR APPROVAL





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DESIGN & PLANNING SERVICES

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CUSTOMER: RAVEN TOWER
ADDRESS: 310 NORTH ST. HOUSTON, TX. 77009
FRAMING SECTIONS & DETAILS

Date: 02/10/15

Drawn: JAR

Approved: PM

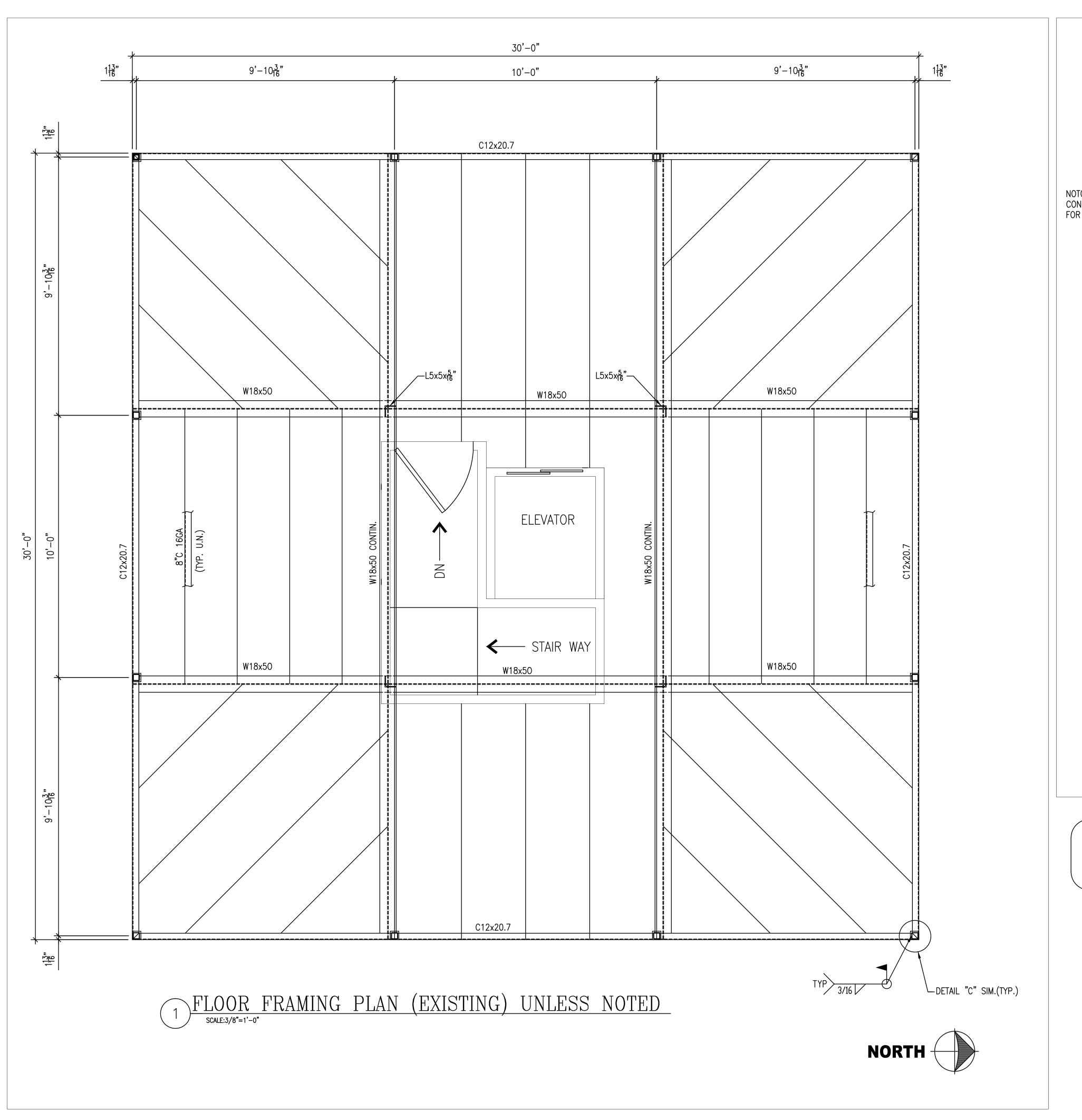
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2015_JOBS/J. PASILLAS

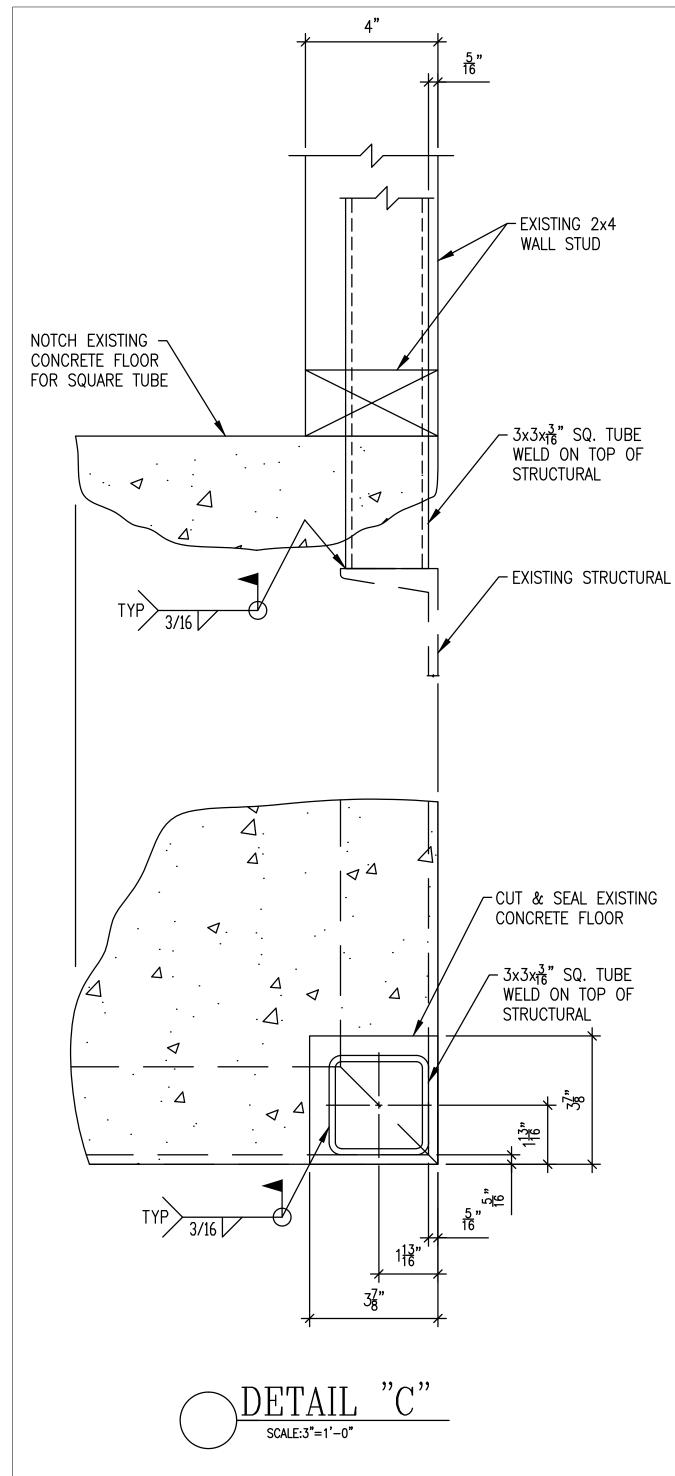
Project No:
25026

A 02/10/15 FOR APPROVAL

Sheet Title:
SECTIONS
AND DETAILS

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AS BUILT SET OF DRAWINGS

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PANEL DEFLECTION = L/180

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> DETAILS HOUSTON, \approx TOWER SECTIONS NORTH FLOOR FRAMING CUSTOMER: 310 ADDRESS:

77009

A 02/10/15 FOR APPROVAL 02/10/15

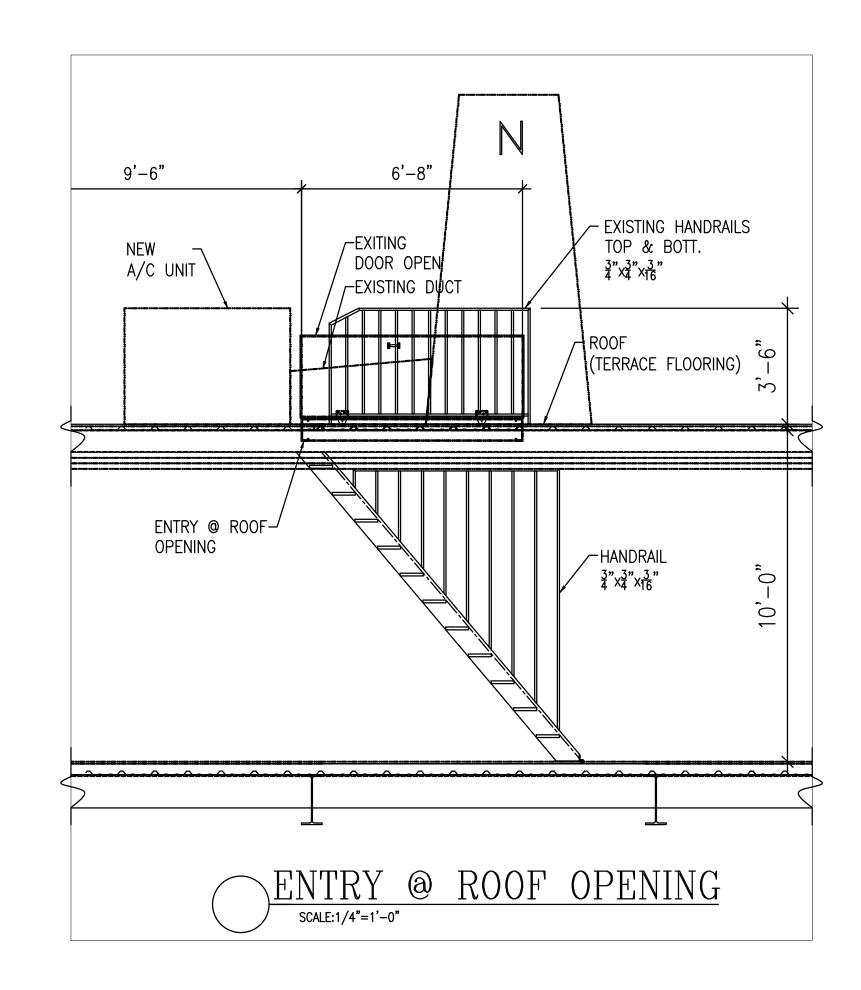
FLOOR PLAN

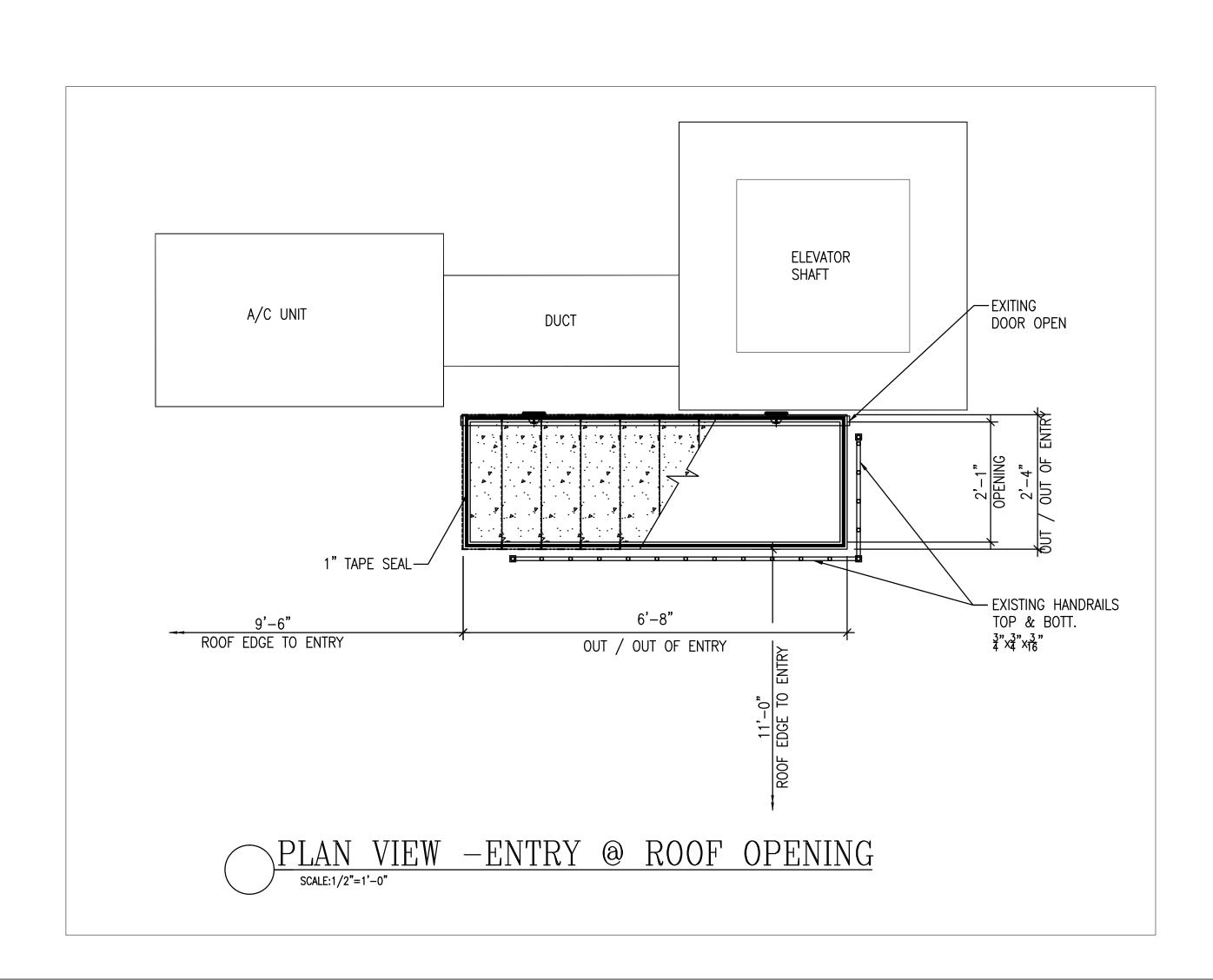
DESIGN LOADS FOR HANDRAIL & GUARDRAIL

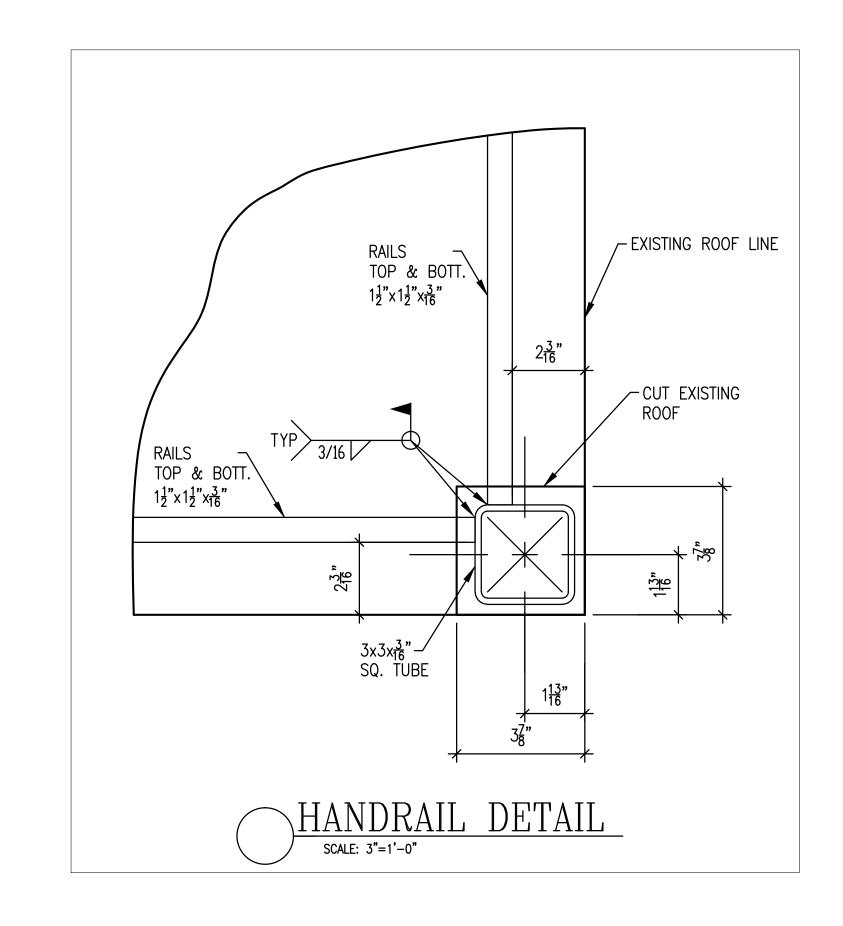
LIVE LOAD = 50 # / L.F. ANY AREA CONCENTRATED LOAD = 200 # ANY DIRECTION

DESIGN LOADS FOR STAIRS & LANDING

LIVE LOAD = 100 PSF. DEAD LOAD = 20 PSF.CONCENTRADE LOAD = 300 # GUARDRAIL = 200 # /LIN FT. LATERAL & HANDRAIL







AS BUILT SET OF DRAWINGS

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WIND LOAD = 100.00 M.P.H. = 3 PSF = 0.00 P.S.F. DEAD LOAD COLLATERAL LOAD PANEL DEFLECTION = L/180

> **ISSUED** FOR APPROVAL



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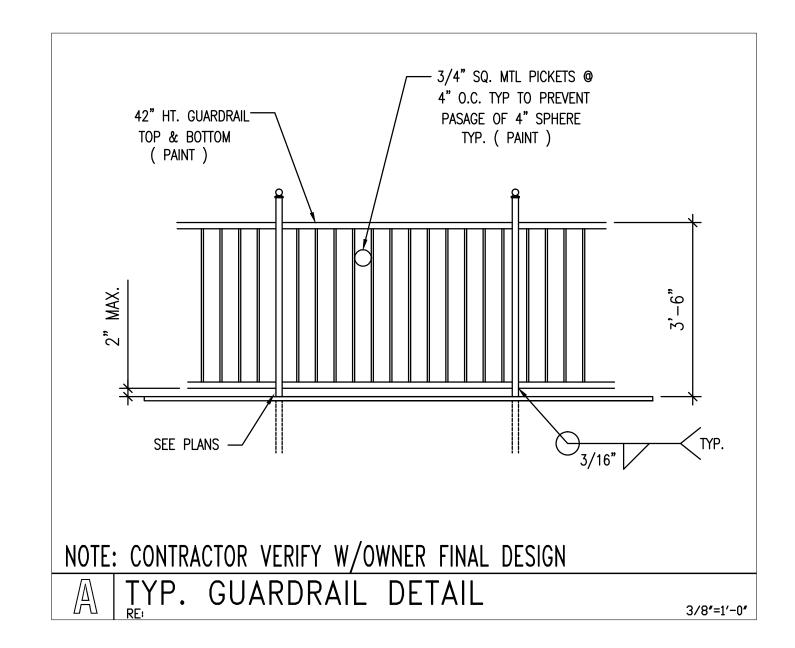
77009 TX. HOUSTON, TOWER SI. \geq RAVE] NORTH 310 CUSTOMER: ADDRESS:

DETAILS

SECTIONS

FRAMING

ROOF A 04/09/15 FOR APPROVAL 04/09/15 Cadd File No: Project No:



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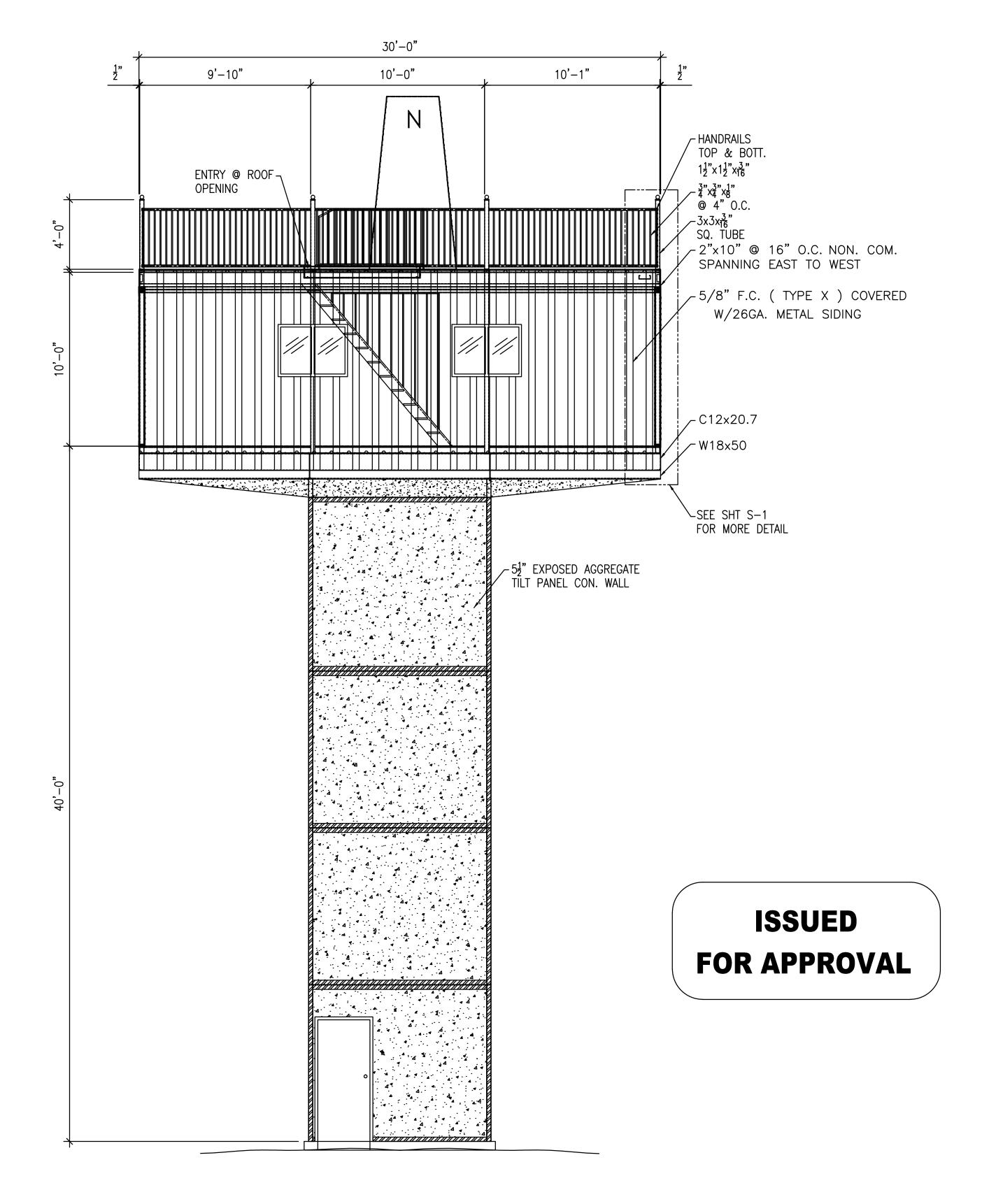
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WIND LOAD DEAD LOAD

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COLLATERAL LOAD = 0.00 P.S.F.

PANEL DEFLECTION = L/180



AS BUILT SET OF DRAWINGS

ELEVATION LOOKING NORTH (EXISTING) UNLESS NOTED TOWER SCALE:3/16"=1'-0"



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HOUSTON, TOWER ST. \geq NORTH 310 CUSTOMER: ADDRESS:

ELEVATION

77009

TX.

TOWER A 04/09/15 FOR APPROVAL

TOWER ELEVATION S-3a

MTZ CAD SERVICES INC

2500 STRAWBERRY RD. PASADENA TX. 77502 713-477-0559 fax 832-386-0559 25026

Invoice / receipt

Customer Name **JOHNNY SO** Date 6/2/2015 310 NORTH ST. Address Order No. 25026 ZIP 77009 City HOUSTON State TX Rep Phone **FOB** Qty Description **Unit Price TOTAL** Drafting Services for the following \$ 1,300.00 **Project: RAVEN TOWER DRAWINGS AS BUILT STRUCTURAL PLANS** Drawing of: S-1 **Roof Framing Plan** S-1a Structural x-section & Details **S-2** Floor Framing Plan S-3 Handrails / Stair Details S-3a Tower Elevation & Misc. details SubTotal 1,300.00 Sales TAX \$107.25 Date \$ Name balance 1,407.25 **Johnny So**

please make check to : MTZ CAD Services Inc.