

CHARTER NEX FILMS 2016 TOWER ADDITION

1264 EAST HIGH STREET
MILTON, WISCONSIN 53563

GENERAL / STRUCTURAL NOTES

GENERAL REQUIREMENTS

NOTES & DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.

ALL MATERIALS AND WORK PERFORMED SHALL CONFORM TO THE REQUIREMENTS OF THE 2011 WISCONSIN COMMERCIAL BUILDING CODE INCLUDING LOCAL ORDINANCES AND AMENDMENTS.

ALL MATERIAL SHALL BE FURNISHED AS SHOWN HEREIN UNLESS THE OWNER OR ENGINEER APPROVES EQUAL ALTERNATIVES.

NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE ENGINEER.

THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO BRACING AND SHORING, OBSERVATION VISITS TO THE SITE, BY THE ENGINEER AND/OR THE ENGINEER'S REPRESENTATIVE(S) SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.

BUILDING INFORMATION

- CONSTRUCTION TYPE = IIB
- OCCUPANCY = F-1
- ALTERATION AREA = 4192 SQ. FT.
- SPRINKLED

THE ASCE7-05 OR FACTORY MUTUAL (FM 1-28/FM 1-31/FM 1-54) LOADING THAT PRODUCES THE MAXIMUM EFFECT OR PRESCRIPTIVE RESULT WILL BE USED FOR STRUCTURAL DESIGN, ASCE7-05 AND FACTORY MUTUAL FM 1-28 (WIND DESIGN), FM 1-31 (METAL ROOF SYSTEMS - STANDING SEAM), AND FM 1-54 (ROOF LOADS FOR NEW CONST) ARE THE DATA SHEETS USED TO DETERMINE THE STRUCTURAL REQUIREMENTS STATED BELOW.

DESIGN LOADS - WI 2011 CBC (ASCE7-05)

ROOF: GROUND SNOW LOAD (P_g) = 25 PSF
SNOW IMPORTANCE FACTOR (I_s) = 1.0
SNOW LOAD EXPOSURE FACTOR (C_e) = 1.0
SLOPED ROOF/FLAT ROOF (P_f) = 20 PSF
-SNOW DRIFT APPLIED PER ASCE7
ROOF THERMAL FACTOR (C_t) = 1.0
COLLATERAL LOAD = 3 PSF
ROOFING MATERIAL DEAD LOAD = 3 PSF

WIND: WIND SPEED = 90 MPH, EXPOSURE = C
WIND IMPORTANCE FACTOR (I) = 1.0
INTERNAL PRESSURE COEFFICIENT (C_{pi}) = ±0.18
COMPONENT & CLADDING DESIGN PRESSURE = (SEE CHART CC)

FUTURE EQUIPMENT PLATFORMS (TO BE DETERMINED):

LIVE LOAD = 60 PSF
DEAD + COL = 15 PSF
EQUIPMENT LOADS - TO BE PROVIDED BY OWNER

SEISMIC: SEISMIC USE GROUP = II
SEISMIC SITE CLASS = D
SEISMIC IMP. FACTOR = 1.0
SEISMIC DESIGN CATEGORY = B
SPECTRA RESPONSE COEFF. S_{ds} = 0.130, S_{d1} = 0.077
DESIGN BASE SHEAR (V) = 0.04W
ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE

CHART CC

BUILDING AREA	TRIBUTARY AREA SQ. FT.			
	10	20	50	500
INTERIOR ROOF	-32.70	-30.86	-28.44	-26.61
EDGE ROOF	-51.32	-48.75	-45.36	-42.79
CORNER ROOF	-69.94	-66.64	-62.28	-58.98
INTERIOR WALL	-22.35	-22.35	-21.17	-20.28
EDGE WALL	-40.97	-40.97	-36.26	-32.69
EDGE ZONE STRIP WIDTH (FT)	3'-0"			

(CHART CC LOADS BASED ON TOWER GEOMETRY. NEGATIVE VALUES INDICATES LOAD ACTING AWAY FROM BUILDING)
LOADS TO BE APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2011 WISCONSIN COMMERCIAL BUILDING CODE

DESIGN CRITERIA

THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE (f'_c) AT 28 DAYS SHALL BE:

SLAB-ON-GRADE 3,500 PSI
FOOTINGS & WALLS 3,000 PSI
EXTERIOR 4,000 PSI
DRYPACK OR GROUT FOR BASE PLATES 4,000 PSI

REINFORCING STEEL F_y=60,000 PSI (ASTM A615, GRADE 60)
STRUCTURAL STEEL
WF SHAPES F_y=50,000 PSI (ASTM A992)
STRUCTURAL TUBING F_y=46,000 PSI (ASTM A500, GRADE B)
STRUCTURAL PIPES F_y=35,000 PSI (ASTM A53, GRADE B)
CHANNELS & ANGLES F_y=36,000 PSI (ASTM A36)
PLATE STEEL F_y=50,000 PSI (ASTM A572, GRADE 50)
WELDING ELECTRODES E70XX (PER AWS D1.1 LATEST EDITION)
COLD FORM STEEL F_y=55,000 PSI (ASTM 1011, GRADE 55)

DESIGN METHOD

MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN (AISC 13TH EDITION).
COLD FORMED STEEL DESIGN MANUAL (NAS-07).

STEEL DECK INSTITUTE (SDI), SPECIFICATIONS FOR ROOF & FLOOR DECK, LATEST EDITION.

STRUCTURAL STEEL

ALL STRUCTURAL STEEL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF ASTM AND SHALL BE FABRICATED AND ERECTED ACCORDING TO AISC SPECIFICATIONS.

STEEL FABRICATOR/SUPPLIER SHALL DESIGN CONNECTIONS TO RESIST REACTIONS CALCULATED FROM THE UNIFORM LOAD CONSTANTS SHOWN IN THE AISC BEAM TABLES UNLESS REACTIONS ARE NOTED ON THE DRAWINGS. CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED UNLESS NOTED OTHERWISE ON THE DRAWINGS. PROVIDE A MINIMUM OF TWO (2) BOLTS FOR EACH CONNECTION.

ALL SHOP AND FIELD BOLTED CONNECTIONS SHALL USE A325 BOLTS AND NUTS, UNLESS OTHERWISE NOTED. AISC INSTALLATION PROCEDURES FOR A325 BOLTS AND NUTS MUST BE FOLLOWED.

WELDING SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1. ALL WELDING SHALL BE PERFORMED BY APPROVED CERTIFIED WELDERS.

NO HOLES, OTHER THAN THOSE SPECIFICALLY DETAILED, SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS.

ERECTION OF STEEL MEMBERS SHALL NOT COMMENCE UNTIL ALL CONCRETE/MASONRY ELEMENTS HAVE ATTAINED AT LEAST 75% OF THEIR INTENDED MINIMUM COMPRESSIVE STRENGTH.

COLD FORMED LIGHT GAGE STEEL

ALL STRUCTURAL STEEL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AISI "SPECIFICATION FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS."

ALL FASTENING OF COMPONENTS SHALL BE WITH SELF TAPPING SCREWS OR WELDING AS INDICATED ON APPROVED STEEL DRAWINGS. WELDING SHALL CONFORM TO THE LATEST EDITION OF AWS D1.3. ALL WELDING SHALL BE PERFORMED BY APPROVED CERTIFIED WELDERS.

NO HOLES, OTHER THAN THOSE SPECIFICALLY DETAILED, SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS.

DRAWING INDEX

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S6.1	TOWER PANEL DETAILS		1-29-16



February 18, 2016

CUST ID No. 1194543

JOEL NELSON
4TH DIMENSION DESIGN INC
817 VENTURE CT
WAUKESHA WI 53189

CONDITIONAL APPROVAL
PLAN APPROVAL EXPIRES: 02/18/2019

SITE:
Charterex Films
1264 E High St
City of Milton, 53563
Rock County

FOR:
Facility: 757739 CHARTEREX FILMS TOWER ADDITION
1264 E HIGH ST
MILTON 53563

Object Type: Building ICC Regulated Object ID No.: 1584876 Code Applies Date: 02/01/16
Alteration Level: 2; Major Occupancy: Factory; Type IIB Metal Frame Unprotected class of construction; Addition- Alteration plan; 4,192 project sq ft; Completely Sprinklered; Occupancy: F-1 Factory Moderate-Hazard; Sprinkler Design: NFPA-13 Sprinkler

The submittal described above has been reviewed for conformance with applicable Wisconsin Administrative Codes and Wisconsin Statutes. The submittal has been CONDITIONALLY APPROVED. The owner, as defined in chapter 101.01(10), Wisconsin Statutes, is responsible for compliance with all code requirements. Only those object types listed above have been approved; other submittals such as plumbing and those listed below under Also Submit, may also be required.

The following conditions shall be met during construction or installation and prior to occupancy or use:

Submit - Please submit the following additional components or systems to our agency prior to installation or occupancy of the building. Be aware that additional fees are required if submittals are not timely. Our agency offers a number of worksheets and checklists for the Commercial Building Code at:

http://dps.wi.gov/Documents/Industry%20Services/Forms/Commercial%20Buildings/Combined%20Worksheets%20Instructions%20_2009%20ICC_.pdf

that may assist you in preparing your submittal. Record approval information for each required submittal below. When ready for building occupancy, provide this information to your municipal building official, along with any required compliance statement, in order to obtain any municipal occupancy permit or license.

- SPS 361.30(3) - Unless the sprinkler system is part of a multi-purpose piping system, or an exception listed under SPS 361.30(4)(b) [i.e. alteration or addition of 20 or fewer sprinkler heads to an existing fire sprinkler system] is met, submit prior to installation, properly signed and sealed fire suppression plans to the Industry Services office that reviewed the building submittal, except for the Holmes office. A review appointment and simplified application completion may be made in advance by using the online plan review request retrieval

CONDITIONAL APPROVAL
DEPT OF SAFETY SERVICES
DIVISION OF INDUSTRY SERVICES
SEE CORR. RESPONSE

PROJECT MANAGER:
G. VANDE WETTERING

DESIGNER:
ADD / J. NELSON

DRAWN BY:
D. TIPPETT

EXPEDITOR:
S. LAMON

SUPERVISOR:
D. CRAKER

PRELIMINARY NO.:

CONTRACT NO. 54164

DATE: 1-29-16

SHEET: T1.0

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N216 State Road 55
P.O. Box 620
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FAX (608) 318-2337

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WAUSAU
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Wausau, WI 54401
PHONE (715) 849-3141
FAX (715) 849-3181

www.kellerbuilds.com

DIVISION OF INDUSTRY SERVICES
141 NW BARSTOW ST FL 4TH
WAUKESHA WI 53188-3789
Contact Through Relay
<http://dps.wi.gov/programs/industry-services>
www.wisconsin.gov

Scott Walker, Governor
Dave Ross, Secretary

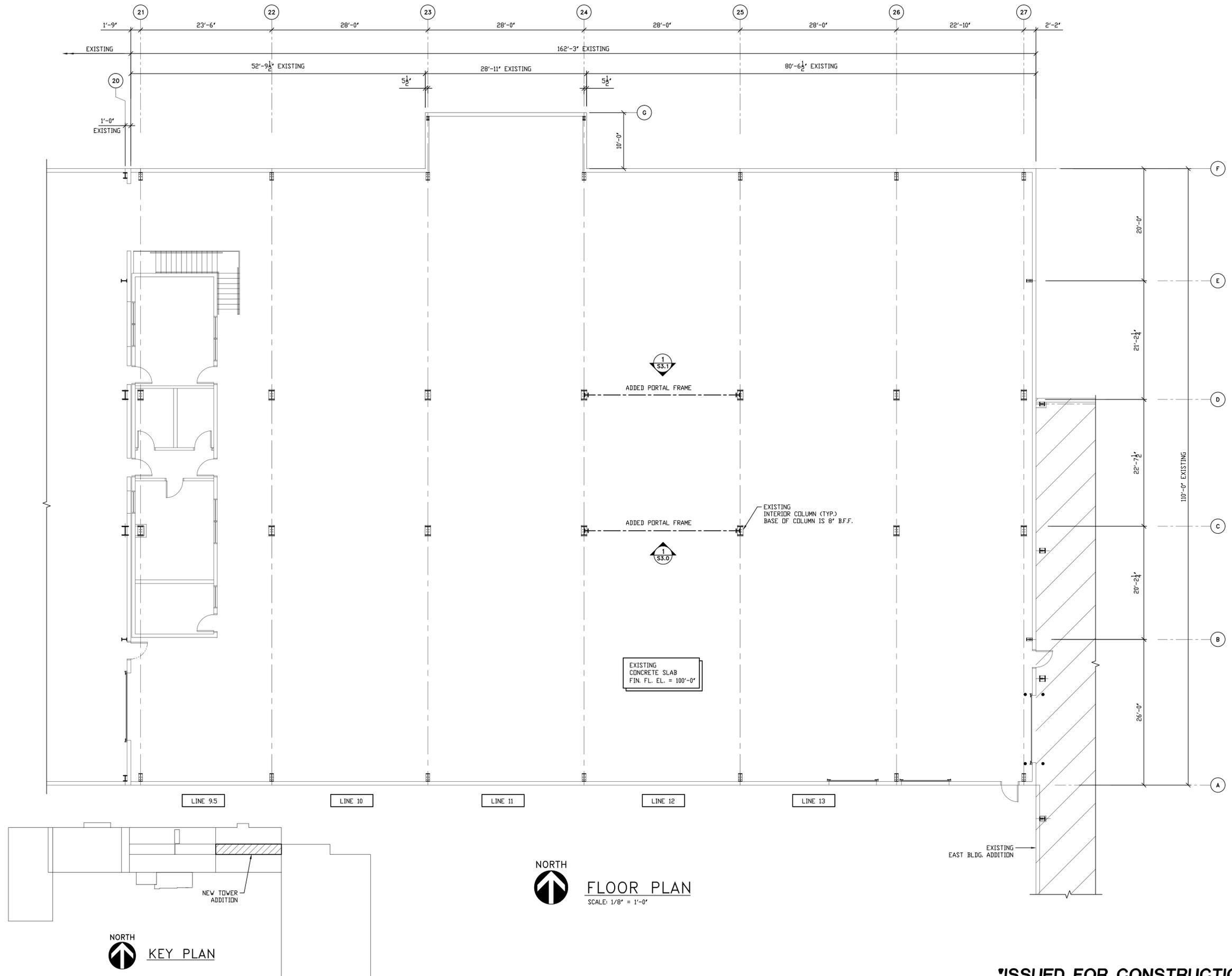
ATTN: Buildings & Structures Building Inspector

MUNICIPAL CLERK
CITY OF MILTON
710 S JANESVILLE STREET
MILTON WI 53563-1579

(Please forward a copy of this letter to the fire department conducting inspections of this project.)

Identification Numbers
Transaction ID No. 2662017
Site ID No. 698401
Please refer to both identification numbers, above, in all correspondence with the agency.

'ISSUED FOR CONSTRUCTION'




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PROPOSED 2016 TOWER ADDITION FOR:

CharterNEX Films

MILTON, WISCONSIN

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DRAWN BY:
 D. TIPPETT

EXPEDITOR:
 S. LAMON

SUPERVISOR:
 D. CRAKER

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54164

DATE:
 1-29-16

SHEET:

S1.0

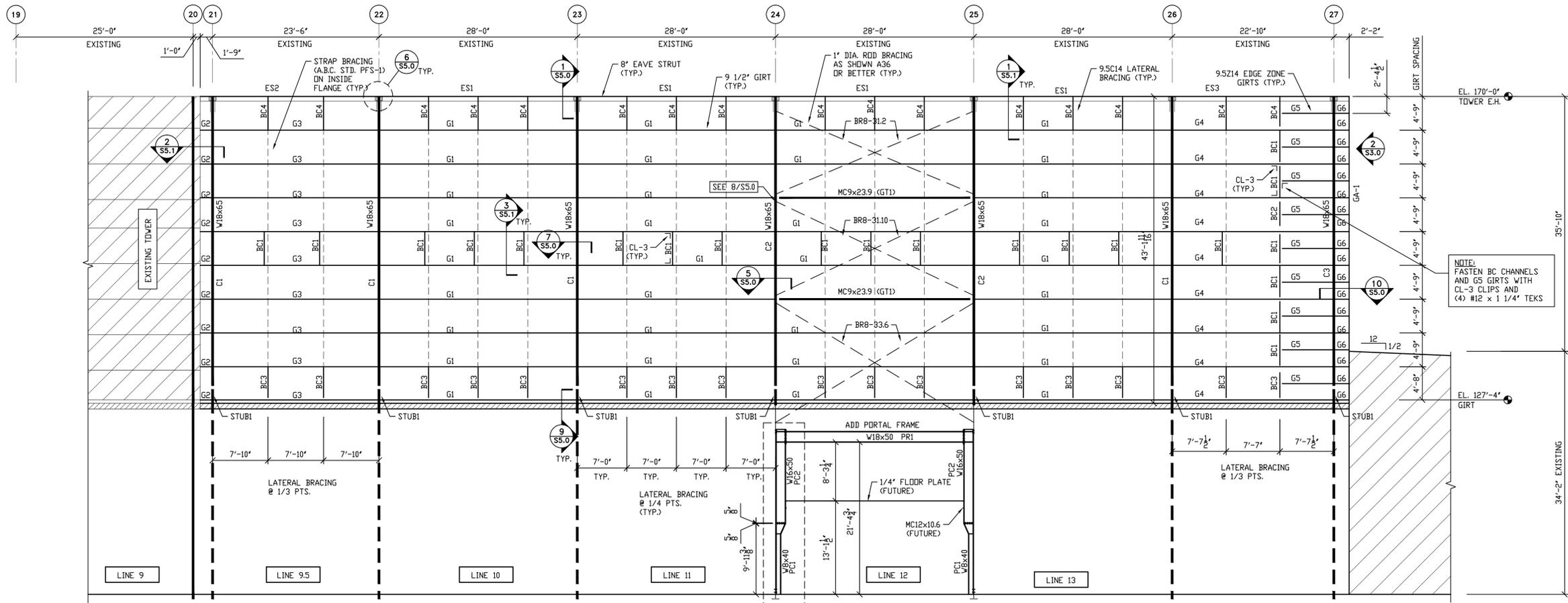
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NORTH

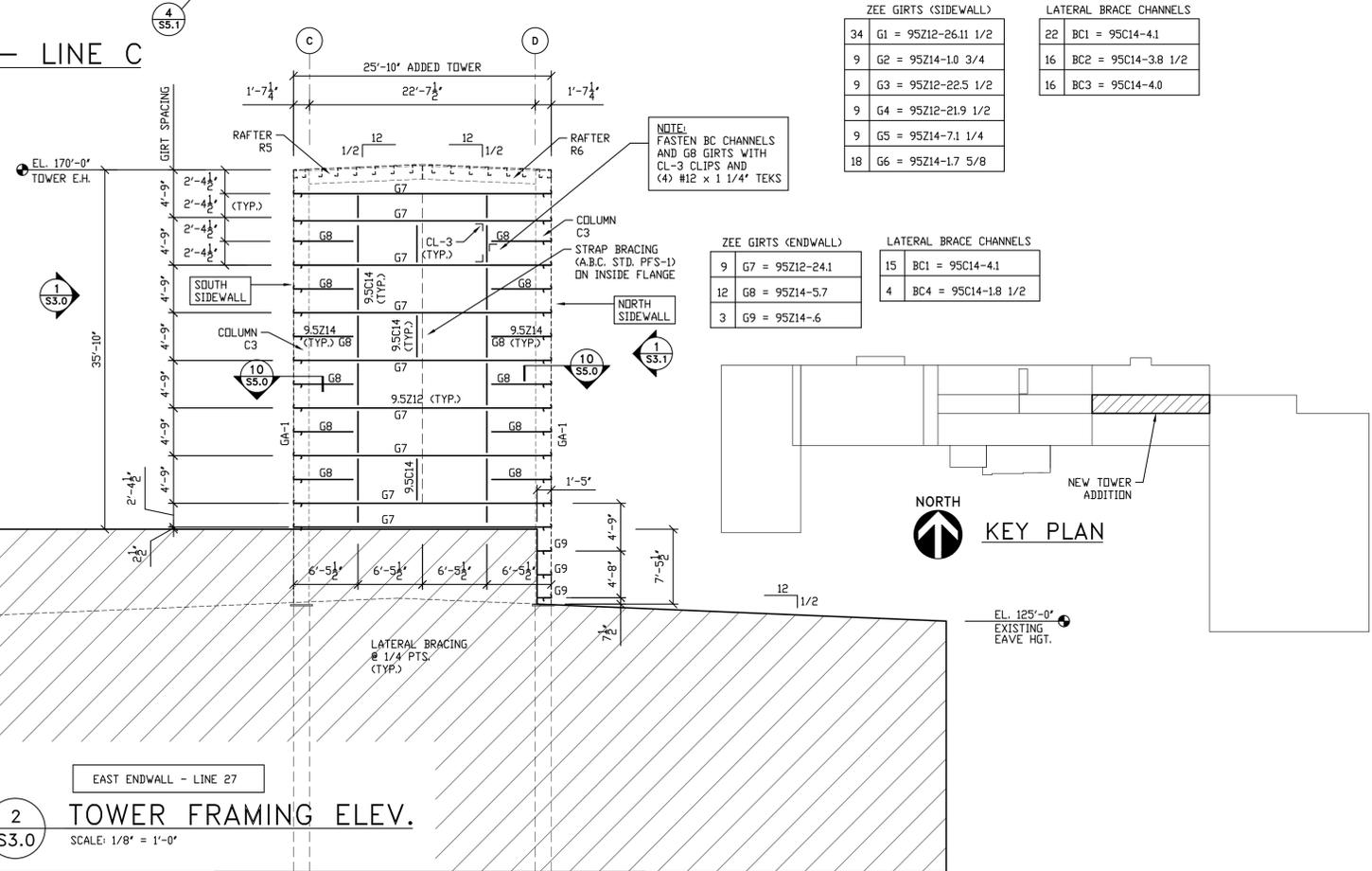
FLOOR PLAN
 SCALE: 1/8" = 1'-0"

NORTH

KEY PLAN



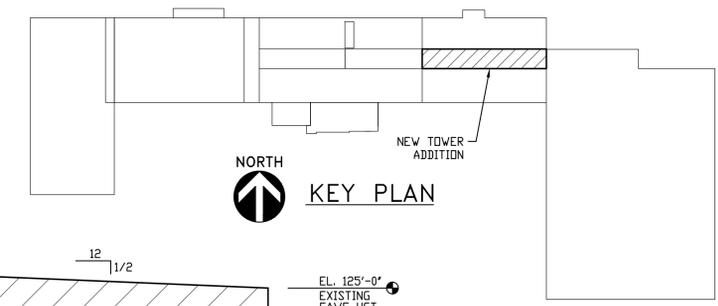
1 SOUTH TOWER FRAMING ELEVATION - LINE C
 SCALE: 1/8" = 1'-0"



2 TOWER FRAMING ELEV.
 SCALE: 1/8" = 1'-0"

ZEE GIRTS (SIDEWALL)		LATERAL BRACE CHANNELS	
34	G1 = 95Z12-26.11 1/2	22	BC1 = 95C14-4.1
9	G2 = 95Z14-1.0 3/4	16	BC2 = 95C14-3.8 1/2
9	G3 = 95Z12-22.5 1/2	16	BC3 = 95C14-4.0
9	G4 = 95Z12-21.9 1/2		
9	G5 = 95Z14-7.1 1/4		
18	G6 = 95Z14-1.7 5/8		

ZEE GIRTS (ENDWALL)		LATERAL BRACE CHANNELS	
9	G7 = 95Z12-24.1	15	BC1 = 95C14-4.1
12	G8 = 95Z14-5.7	4	BC4 = 95C14-1.8 1/2
3	G9 = 95Z14-6		



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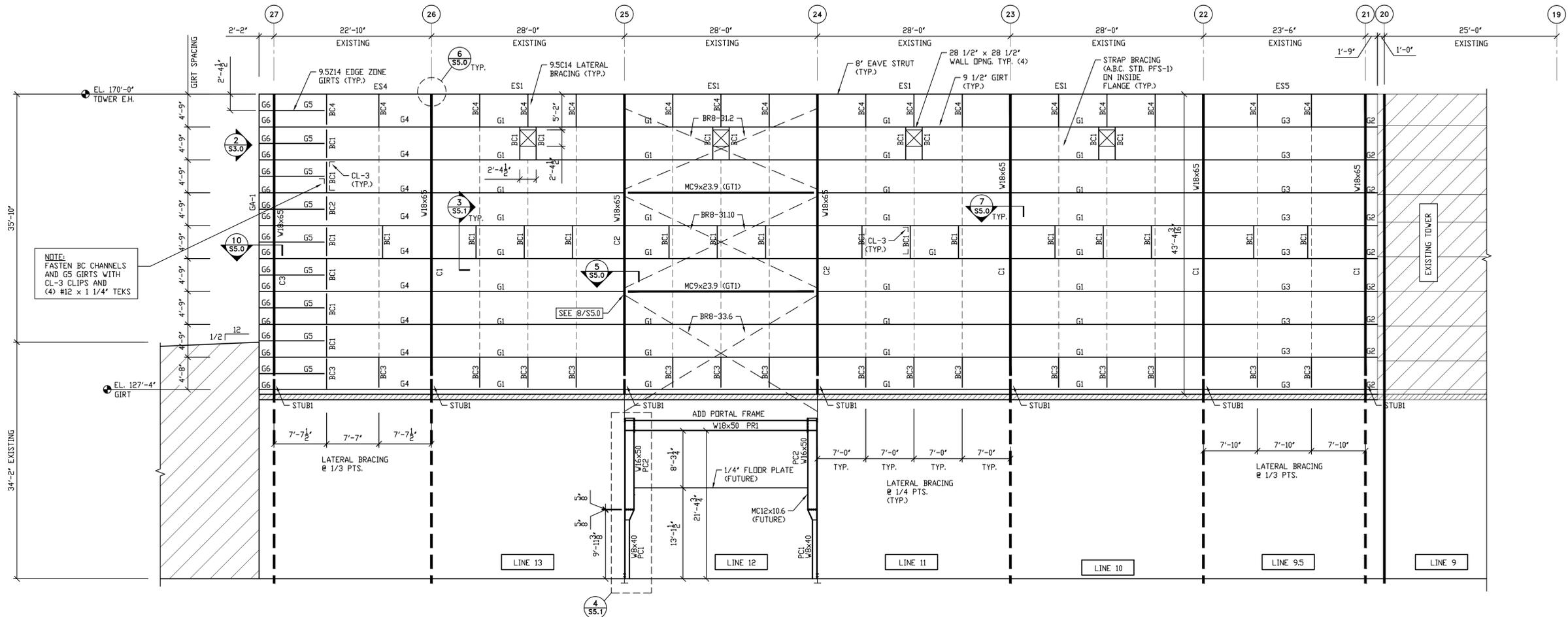
CONTRACT NO.:

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 1-29-16

SHEET:
S3.0

'ISSUED FOR CONSTRUCTION'



NOTE:
FASTEN BC CHANNELS
AND G5 GIRTS WITH
CL-3 CLIPS AND
(4) #12 x 1 1/4" TEKS

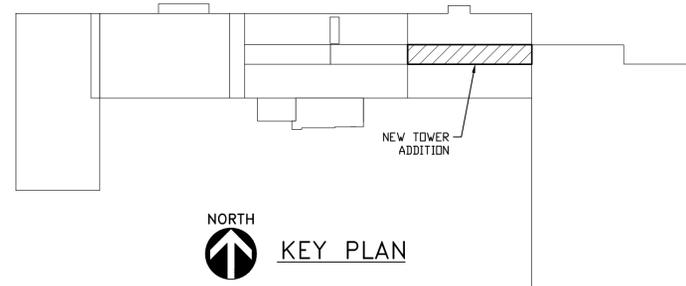
1 NORTH TOWER FRAMING ELEVATION - LINE D
S3.1 SCALE: 1/8" = 1'-0"

ZEE GIRTS (SIDEWALL)

34	G1 = 95Z12-26.11 1/2
9	G2 = 95Z14-1.0 3/4
9	G3 = 95Z12-22.5 1/2
9	G4 = 95Z12-21.9 1/2
9	G5 = 95Z14-7.1 1/4
18	G6 = 95Z14-1.7 5/8

LATERAL BRACE CHANNELS

30	BC1 = 95C14-4.1
16	BC2 = 95C14-3.8 1/2
16	BC3 = 95C14-4.0



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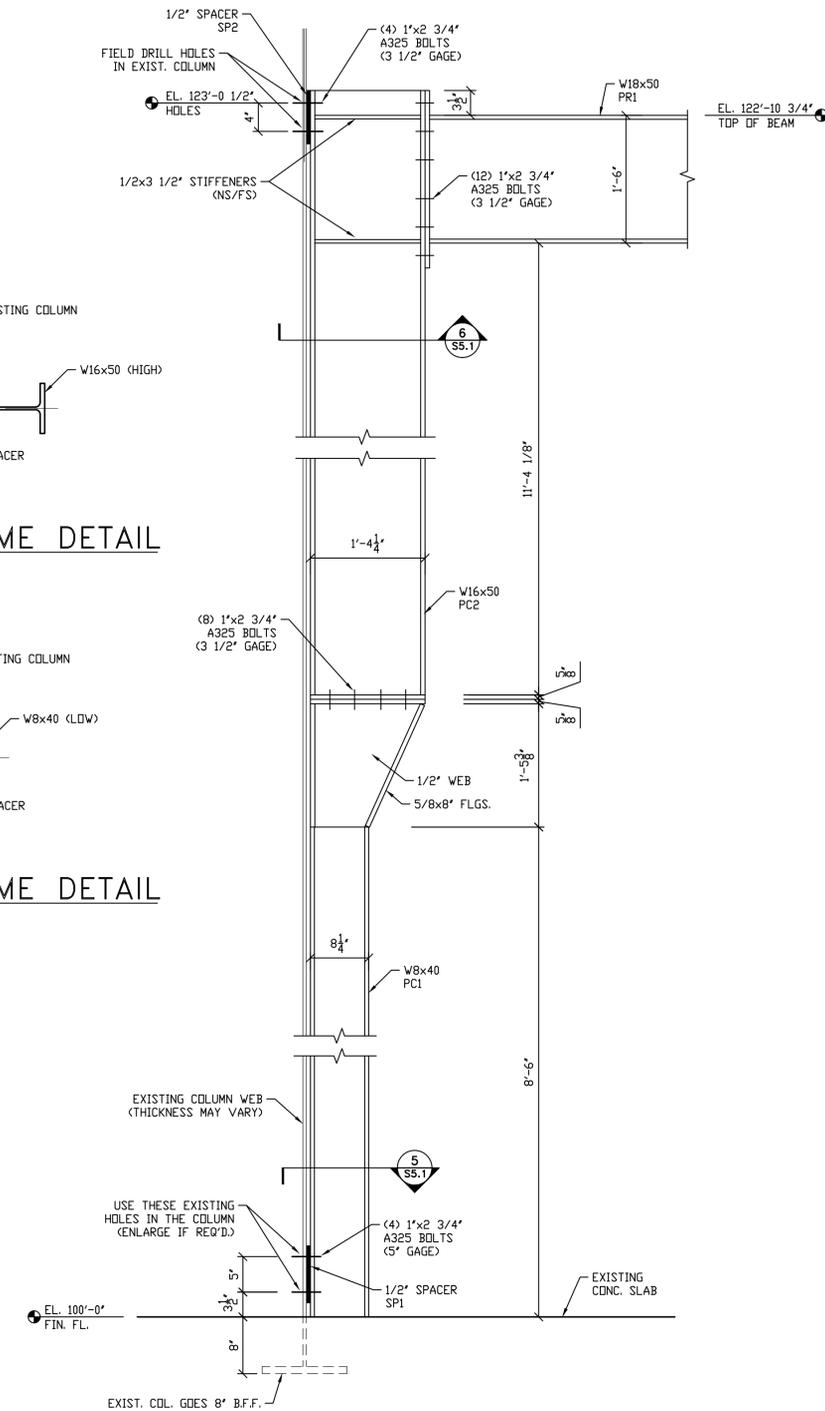
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CONTRACT NO.:

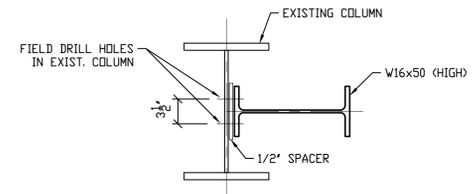
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SHEET: **S5.1**

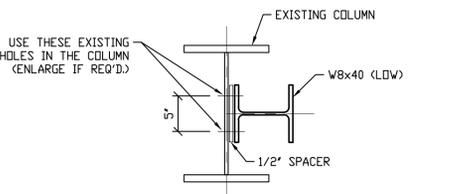
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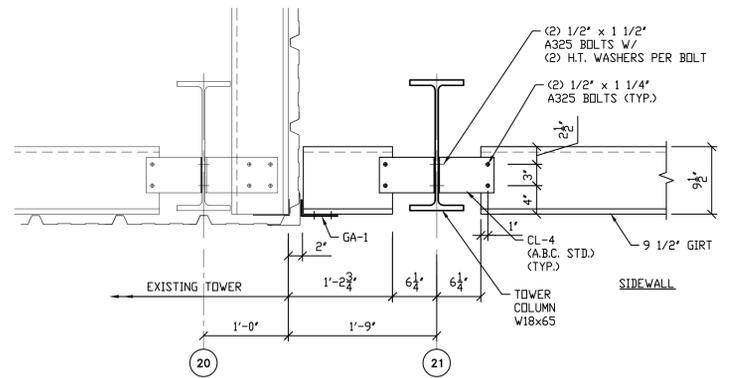
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S5.1 PORTAL FRAME DETAIL
SCALE: 1" = 1'-0"



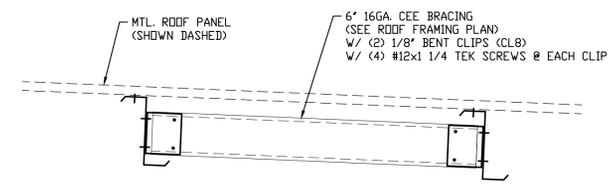
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S5.1 PORTAL FRAME DETAIL
SCALE: 1" = 1'-0"



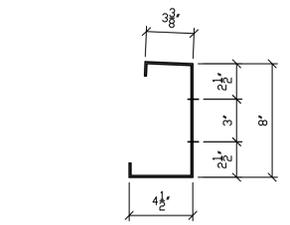
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S5.1 PORTAL FRAME DETAIL
SCALE: 1" = 1'-0"



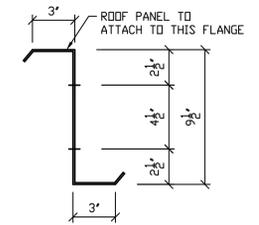
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S5.1 GIRT DETAIL
SCALE: 1" = 1'-0"



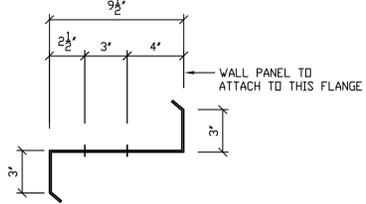
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S5.1 LATERAL ROOF BRACING
SCALE: 1" = 1'-0"



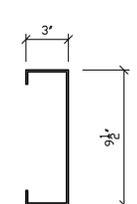
EAVE STRUT PROFILE



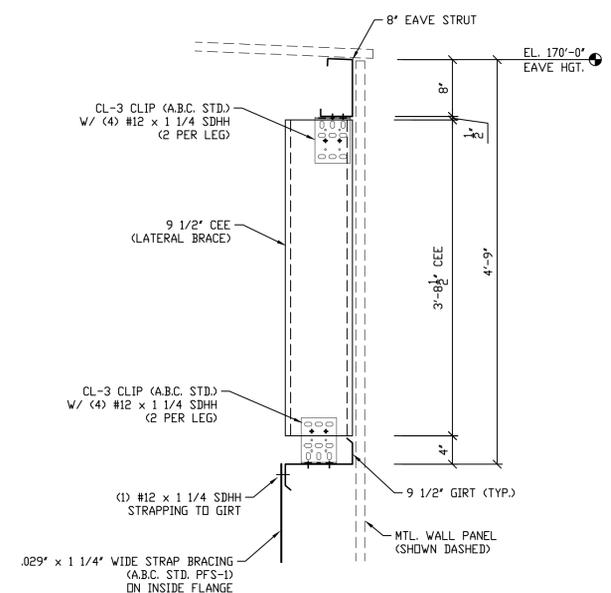
PURLIN PROFILE



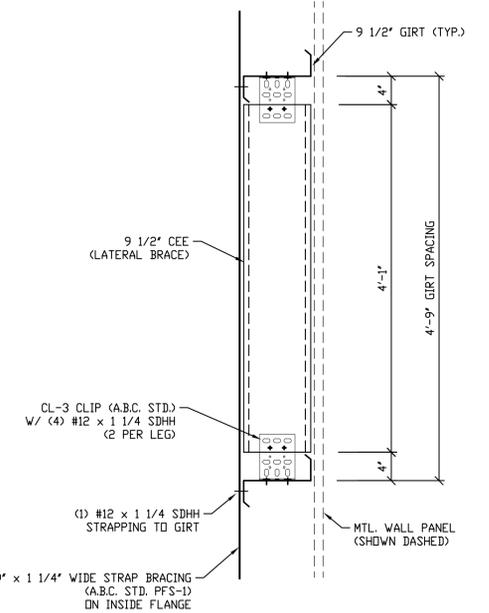
GIRT PROFILE



CEE PROFILE



1
S5.1 BRACE DETAIL
SCALE: 1" = 1'-0"



3
S5.1 BRACE DETAIL
SCALE: 1" = 1'-0"

