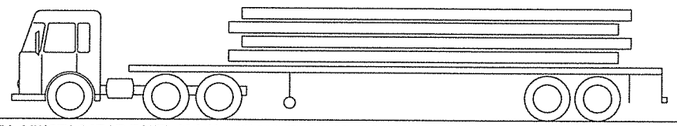
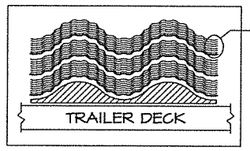
*NOTE: 1 - 10,000 lb CAPACITY NYLON SLING REQUIRED FOR UNLOADING
3" x 3" BLOCKING OR (2 - PLY 2x4) AS REQUIRED

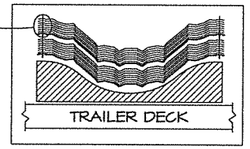
PANELS WILL BE STAGGERED OFF THE MILL IN APPROXIMATELY 5000lb LIFTS THUS ARRIVING ON ONSITE STAGGERED FOR EASY UNLOADING.



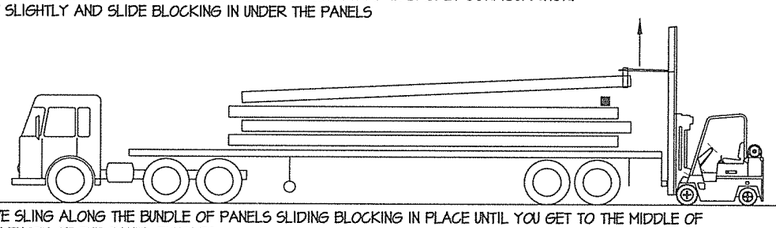
A FULL LENGTH SCRAP PANEL IS LAID ON THE DECK OF THE TRAILER FOR PROTECTION. FOR PAINTED PANELS AN ADDITIONAL FULL LENGTH PANEL FOR A COVER SHEET WILL BE USED UNDER EVERY LIFT.



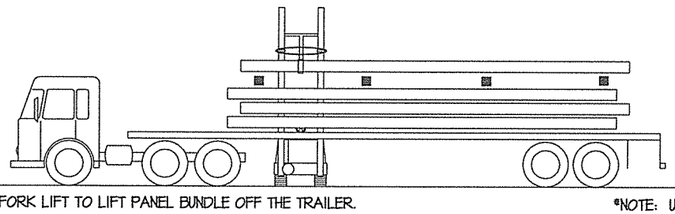
IF NECESSARY, WIRE TIE THE BUNDLE OF PANELS TOGETHER PRIOR TO UNLOADING TO PREVENT PANELS FROM SLIDING AND/OR FALLING WHILE UNLOADING.



LIFT CORNER EDGE OF THE FIRST BUNDLE AND GET A SLING IN UNDERNEATH THE BUNDLE OF PANELS. IF REQUIRED USE A LINING BAR AND SMALL BLOCK TO SEPARATE PANELS ENOUGH TO GET THE TIP OF THE FORK LIFT BETWEEN PANELS TO INSERT STRAPS. USE STRAP IN BASKET CONFIGURATION.
LIFT SLIGHTLY AND SLIDE BLOCKING IN UNDER THE PANELS

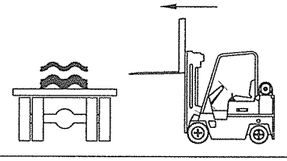


MOVE SLING ALONG THE BUNDLE OF PANELS SLIDING BLOCKING IN PLACE UNTIL YOU GET TO THE MIDDLE OF THE LENGTH OF THE PANEL BUNDLES.



USE FORK LIFT TO LIFT PANEL BUNDLE OFF THE TRAILER.

*NOTE: USE SAME PROCEDURE FOR CURVED PANELS



CORR-SPAN©	UNLOADING PROCEDURES	MAY 2007 Vr 1.0
	CORR-SPAN© BUILDING SYSTEM	

DRAWING SCHEDULE

SHT #	DRAWING TITLE	REVISION #	REVISION DATE
100	DRAWING SCHEDULE	0	DEC 9/15
101	GENERAL INFORMATION AND CONFORMANCE	0	DEC 9/15
102	ANCHOR BOLT PLAN	0	DEC 9/15
103	ANCHOR BOLT DETAILS	0	DEC 9/15
104	ANCHOR BOLT DETAILS	0	DEC 9/15
201	FIRETOWER ELEVATIONS	0	DEC 9/15
202	FIRETOWER ELEVATIONS	0	DEC 9/15
301	FIRETOWER VERTICAL ELEVATIONS	0	DEC 9/15
302	FIRETOWER VERTICAL ELEVATIONS	0	DEC 9/15
401	ROOF PLAN VIEW	0	DEC 9/15
501	TOWER 2nd FLOOR	0	DEC 9/15
502	TOWER 3rd FLOOR	0	DEC 9/15
503	TOWER 4th FLOOR	0	DEC 9/15
504	TOWER 5th FLOOR / ROOF	0	DEC 9/15
505	WALL MOUNTED RAPPELLING ANCHOR DETAILS	0	DEC 9/15
601	FRAMED OPENINGS	0	DEC 9/15

ASSEMBLY DRAWINGS TRANSMITTAL

SALES ORDER: 103830

ATTENTION:	JOE KIRCHNER
PHONE:	(913) 385-3663
EMAIL:	joe_kirchner@trainingtowers.com
PREPARED BY:	BROOK YULE
ORIGINATOR:	TREVOR VEITCH
CUSTOMER SERVICE REP:	CHRIS EWASIUK
PHONE:	(204) 728-1188
EMAIL:	cewasiuk@behlen.ca
REGIONAL SALES MANAGER:	N/A
PHONE:	N/A
EMAIL:	N/A
PROJECT MANAGER:	WAYNE DANIELS
PHONE:	(204) 728-1188
EMAIL:	wdaniels@behlen.ca
TRANSMITTAL SENT:	DECEMBER 9, 2015

DRAWING SET:	
FOR INFORMATION:	
FOR REVIEW:	
FOR PERMIT:	
FOR CONSTRUCTION:	X
PLEASE RESPOND:	

SENT BY:	
EMAIL:	X
PDF:	X
AUTOCAD DRAWING:	X
REGULAR MAIL:	
EXPRESS POST:	
PUROLATOR:	
OTHER:	

STANDARD DETAILS NOTE:

SEE STANDARD DETAIL BOOKLET FOR ALL STANDARD DETAILS.
THE DETAILS WITHIN THE BOOKLET COVER A WIDE RANGE OF CIRCUMSTANCES.
IF THERE IS A DISCREPANCY BETWEEN THE BOOKLET AND THE CONSTRUCTION DRAWINGS, PLEASE USE THE DETAIL FROM THE CONSTRUCTION DRAWINGS.

CANADA'S BEST MANAGED COMPANIES Platinum member

QUASAR QUALITY SYSTEMS ASSESSMENT REGISTRAR

FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

DRAWING SCHEDULE

LETTER	DESCRIPTION	NAME	DATE
	REVISIONS		
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BY
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

SHEET 100
REV. 0

BEHLEN Made Strong

427 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003

CERTIFICATE OF DESIGN AND MANUFACTURING CONFORMANCE TO CSA STANDARD A660-M91

This certificate is to affirm that all components of the Steel Building System described below to be supplied by Behlen Industries LP certified in accordance to CSA Standard A660, have been or will be designed and fabricated in accordance with the following standards to carry the loads and load combinations specified.

1. DESCRIPTION

Manufacturer's Name and Address	BEHLEN INDUSTRIES LP; BRANDON, MANITOBA
Manufacturer's Certificate No. under CSA-A660	BEHLEO
Sales Order Number	103830
Building Size	15'-1"x18'-6"x37'-6" [4597x5639x11430] TOWER 15'-1"x14'-6"x9'-4 1/4" [4597x4420x2851] ANNEX
Building Type	FIRETOWER
Intended Use and Occupancy	UTILITY
Importance Factor (NBCC Clause 4.1.2.1.(3))	NORMAL
Site Location	HALIFAX, NS
Applicable Building Code	NBCC 2010
Builder's Name and Address	WERNER-HERBISON-PADGETT - OVERLAND PARK, KANSAS, 66214
Owner's Name and Address	CFB HALIFAX DOCKYARD TRAINING TOWER - HALIFAX, NS

2. DESIGN STANDARDS

Engineer's Initials

National Building Code (NBC) of Canada 2010, Part 4: Structural Design,
CSA S16, Limit States Design of Steel Structures
CSA S136, North American Specification for the Design of Cold Formed Steel Structural Members,
Other (specify) _____ dated:_____
_____ dated:_____ TV

3. MANUFACTURING STANDARDS

(a) Fabrication has been or will be in accordance with CSA S16 and CSA S136, as applicable. TV
(b) Welding has been or will be performed in accordance with CSA-W59 and CSA S136, as applicable. TV
(c) Behlen Industries LP has been certified in accordance with CSA-W47.1, for Division 2 and/or CSA-W55.3 if applicable. TV
(d) Welders have been qualified in accordance with CSA-W47.1 TV

4. PURLIN STABILITY

Purlin braces are provided in accordance with CSA S136, Clause D3, and Appendix B Clause D3.2.3. In particular, for a standing seam roof supported on movable clips, braces providing lateral support to both top and bottom purlin flanges have been or will be provided. The number of rows is determined by analysis but in no case is less than 1 for spans up to 7 m (23 ft). Inclusive or less than 2 for spans greater than 7 m (23 ft). N/A

5. LOADS

(a) Snow and Rain Loads
1-in-50 year ground snow load, Ss, 1.9 (kPa)
1-in-50 year associated rain load, Sr, 0.6 (kPa)
Basic roof snow load factor, Cb, 0.80
Wind exposure factor, Cw, 1.0
Importance factor, Is, ULS 1.0 SLS 0.90
Roof snow load, S, 2.12 (kPa)
Drift load considered (NBS Sub-section 4.1.6.2.B) refer to drawing of specific building
Specified rain load, (NBCC. clause 4.1.6.4) , 72 (mm/hr) TV

(b) Full or Partial Snow Load
(i) Applied on any one and any two adjacent spans of continuous purlins N/A
(ii) Applied on any one and any two adjacent spans of modular rigid frames with continuous roof beams N/A
(iii) Applied as described for the building geometry in NBC Part 4 and in the supplement to NBC, Commentary on Snow Loads. TV

(c) Wind Load
1-in-50 year reference velocity pressure 0.58 (kPa)
Importance Factor, Iw, ULS 1.0 SLS 0.75
Exposure Factor, Ce, 1.03 TV

(d) Wind Load Application
(i) Applied as per NBC Part 4, Section 4.1.7
(ii) Pressure coefficients as per User's Guide - NBCC 2010 Structural Commentaries (Part 4). Commnentary 1: Wind Loads, figures 13 through 112.
(iii) Building internal pressure Category 2 per User's Guide - NBC 2010 Structural Commentaries (Part 4, Commentary 1: Wind Loads.) TV

(e) Crane Loads (where applicable)
Type_____(top-running) (under-running) (jib)
Capacity_____(tonnes) (tons)
Wheel base_____(m) (ft)
Maximum static vertical wheel load_____(kN) (kips)
Vertical Impact Factor _____(%)
Lateral Factor _____(%) lateral wheel load _____(%)
Longitudinal Factor _____(%) maximim longitudinal load _____(%) N/A

(f) Mezzanine Live Load 4.80 (kPa) N/A

(g) Seismic Load
Applied as per NBC, Part 4, Section 4.1.8
Sa(0.2) 0.23 Sa(0.5) 0.15 Sa(1.0) 0.085 Sa(2.0) 0.027 Fa 1.30 Fv 1.40 Ie (ULS) 1.0
Soil Site Classification D TV

(h) Other Live Loads (specify) SNOW DRIFT ACCUMULATION (TOWER) 0.93 kPa
SNOW DRIFT ACCUMULATION (ANNEX) 2.28 kPa N/A

(j) Dead Loads
Dead load of building components is incorporated in the design.
Collateral loads (mechanical, electrical, ceiling, sprinklers, etc.) 0.67 (kPa)
Mezzanine 2.75 (kPa) (psf) (REFER TO DESIGN LOAD TABLES ON DRAWING 104)
Other (specify)_____
_____ BM

(k) Load Combinations
Applied in accordance with NBC, Part 4, Section 4.1 BM

6. GENERAL REVIEW DURING CONSTRUCTION

Behlen Industries LP does not provide general review during construction for regulatory purposes.

7. CERTIFICATION BY ENGINEER

I T.K.M. VEITCH , a Professional Engineer registered or licensed to practice in the Province or Territory of NOVA SCOTIA , hereby certify that I have reviewed the design and manufacturing process for the Steel Building System described. I certify that the foregoing statements, initialled by myself, are true.

Signature_____
Name T.K.M. VEITCH
Title SENIOR DESIGN ENGINEER
Affiliation BEHLEN INDUSTRIES LP
Date DEC 9/15

* Initial each true statement. Mark N/A if statement does not apply.

GENERAL

THIS DRAWING INCLUDING INFORMATION HEREON, REMAINS THE PROPERTY OF BEHLEN INDUSTRIES LP. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE PURCHASE ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BEHLEN INDUSTRIES LP.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION INCLUDING THE PROPER USE OF TEMPORARY BRACING. BEHLEN INDUSTRIES IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS OR DAMAGES INCURRED IN THE ERECTION OF THE COMPONENTS SHOWN ON THIS DRAWING, NOR FOR THE INSPECTION OF ERECTED COMPONENTS TO DETERMINE SAME.

THIS CERTIFICATION AND ENGINEERING SEAL APPLIES ONLY TO PRODUCTS DESIGNED AND FABRICATED BY BEHLEN INDUSTRIES FOR THE LOADING CONDITIONS DESIGNATED ON THESE DRAWINGS. CONCRETE FOUNDATIONS, STEEL COMPONENTS BY OTHERS AND ERECTION SUPERVISION ARE NOT THE RESPONSIBILITIES OF BEHLEN INDUSTRIES OR THE CERTIFYING ENGINEER.

ANCHOR BOLTS

ANCHOR BOLTS ARE NOT FURNISHED AS PART OF THIS BUILDING

ANCHOR BOLT DIAMETERS ARE DETERMINED IN ACCORDANCE WITH CSA STANDARD CAN3-S16.1 USING Fy = 36 KSI. ANCHOR BOLT LENGTHS AND LOAD TRANSFER TO THE FOUNDATION ARE TO BE DETERMINED BY OTHERS.

FOUNDATION MUST BE LEVEL, SQUARE AND SMOOTH. ANCHOR BOLTS MUST BE ACCURATELY PLACED AS SHOWN ON THE DRAWINGS.

THE CONCRETE CROSS SECTIONS SHOW SOME RECOMMENDED MINIMUMS BUT IS NOT MEANT TO BE USED AS A FINAL DESIGN. THE CONCRETE FOUNDATION THAT IS USED IN THIS BUILDING SHOULD BE IN ACCORDANCE WITH LOCAL PRACTICES, AND SATISFY THE LOCAL BUILDING CODES.

ALL DIMENSIONS SHOWN ARE TO THE BUILDING CONCRETE LINE

FINISHED FLOOR ELEVATION, UNDERSIDE OF FOOTING CHANNEL AND UNDERSIDE OF BASE PLATE IS 100'-0" UNLESS NOTED

ERECTION

THE ERECTOR MUST PROVIDE SAFE WORKING CONDITIONS AND PRACTICES CONFORMING TO ALL SAFETY REGULATIONS. ALL LIFTING DEVICES ARE TO BE SPECIFICALLY DESIGNED TO LIFT THE VARIOUS BUILDING COMPONENTS. SLINGS AND SPREADER BARS ARE TO BE USED TO PREVENT PERMANENT DEFORMATION OF ALL STRUCTURAL COMPONENTS.

ERECTION SHOULD START AT ONE ENDWALL. ERECT FIRST SIDEWALL PANEL WITH CORNER PANEL, USE TEMPORARY BRACING AS REQUIRED TO ENSURE STABILITY OF THE PANELS. RAISE FIRST CEILING PANEL AND MISCELLANEOUS ENDWALL PANELS, LEAVING ENDWALL PARTIALLY OPEN TO MINIMIZE WIND PRESSURE. CONTINUE ERECTION, INSTALLING SIDEWALL AND CEILING PANELS, GUSSETS AND STRUTS, ROOF PANELS, BOLTS AND SEALANTS AS SPECIFIED ON THE ERECTION DRAWINGS, AND THE BEHLEN ERECTION PROCEDURES MANUAL.

ENSURE THE STRUCTURE REMAINS PLUMB AND SQUARE. ERECTION TOLERANCES SHALL BE IN ACCORDANCE WITH CAN/CSA-S16.

ALL PRE PUNCHED HOLES TO BE BOLTED UNLESS OTHERWISE SPECIFIED.

ERECTION OF STRUCTURAL STEEL SHOULD START AT THE SAME ENDWALL. ERECT AND TEMPORARILY SUPPORT FRAMES. USE TEMPORARY BRACING AS REQUIRED TO ENSURE STABILITY OF THE FRAMES. PLUMB AND SQUARE FRAMES IN ACCORDANCE WITH CAN/CSA-S16. INSTALL ALL FINAL BRACING.

FASTEN FOOTING CHANNEL OF STUB WALL PANELS TO TOP OF STRUCTURAL STEEL BY PUDDLE WELDING PLATE WASHERS AT 20 1/2" AS SPECIFIED ON THE ERECTION DRAWINGS.

PANEL STORAGE

GALVANIZED, ALUMINIZED, AND COLORED MATERIALS ARE SUBJECT TO CORROSION AND DISCOLORATION IF THEY ARE IMPROPERLY STORED. THESE MATERIALS MUST BE KEPT DRY AT ALL TIMES. PROTECTION FROM RAINFALL ALONE IS OFTEN INADEQUATE. HUMID AIR COMBINED WITH TEMPERATURE CHANGES MAY CAUSE CONDENSATION, WHICH CAN CAUSE MOISTURE TO FORM BETWEEN THE PANELS. TO AVOID DAMAGE, THE MATERIALS MUST BE SEPARATED TO ALLOW AIR FLOW ON ALL SURFACES.

BEHLEN INDUSTRIES LP SHALL NOT BE HELD RESPONSIBLE FOR MATERIALS WHICH ARE IMPROPERLY PROTECTED AFTER DELIVERY.

STRUCTURAL BOLTS

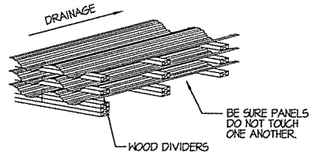
ALL ASTM A325 & A490 BOLTS SHALL BE TIGHTENED USING THE "TURN-OF-NUT" METHOD SPECIFIED IN CAN3-S16.1
ALL PRIMARY FRAMING CONNECTION BOLTS SHALL BE BROUGHT TO A "SNUG-TIGHT" CONDITION ENSURING THAT THE CONNECTION PLATES ARE IN FULL CONTACT WITH EACH OTHER. "SNUG-TIGHT" CONDITION IS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING A SPUD WRENCH. WHEN ALL BOLTS ARE "SNUG-TIGHT" EACH BOLT SHALL THEN BE TIGHTENED ADDITIONALLY BY THE APPLICABLE NUT ROTATION GIVEN IN THE TABLE BELOW, WITH TIGHTENING PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID PART OF THE CONNECTION TO THE FREE EDGES. DURING THE OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH.

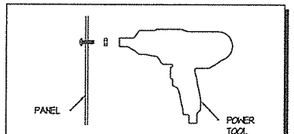
BOLT LENGTH (MEASURED FROM UNDERSIDE OF THE HEAD TO THE EXTREME END OF POINT)	TURN
UP TO AND INCLUDING 4 DIAMETERS	1/3
OVER 4 DIAMETERS AND NOT EXCEEDING 8 DIAMETERS OR 8 INCHES	1/2
EXCEEDING 8 DIAMETERS OR 8 INCHES	2/3

NOTE: NUT ROTATION IS ROTATION RELATIVE TO A BOLT REGARDLESS THE NUT OR BOLT BEING TURNED. TOLERANCE ON ROTATION: 30° OVER OR UNDER.

ALL WALL PANELS ARE 18GA 4 1/2 UNLESS NOTED OTHERWISE
ALL ROOF PANELS ARE 13GA 7 1/2 UNLESS NOTED OTHERWISE
ALL FLOOR JOISTS ARE 10 C 14 (10" DEEP, 14 GA) UNLESS NOTED OTHERWISE
ALL VERTICALS ARE 4 1/2 C 12 (4 1/2" DEEP, 12GA) UNLESS NOTED OTHERWISE
ALL DECKING IS ELITE RIB 24GA GALVANIZED UNLESS NOTED OTHERWISE
ALL STAMPED LOUVERS ARE FACTORED INTO DESIGN.

THIS METHOD OF STACKING FRAMELESS PANELS IS DESIRABLE INDOORS, AND ABSOLUTELY NECESSARY WHEN STACKED OUTDOORS.





USE A POWER TOOL TO TIGHTEN BOLTS.
THE POWER TOOL MUST BE ON THE SAME SIDE OF THE PANEL AS THE NUT.
ENSURE THAT ONLY THE NUT IS SPINNING WHEN BEING TIGHTENED.
THE BOLT HEAD DOES NOT TURN.
USE THIS PROCEDURE ON WALLS, ROOF AND CEILING.

DEFLECTION LIMITS

FLOOR/ROOF JOISTS	L/240
SUPPORT JOISTS	L/240
ROOF PANELS	L/240
WALL PANELS	L/120
BUILDING LATERAL - WIND	H/200
BUILDING LATERAL - SEISMIC	H/60

MATERIAL SPECIFICATIONS

MATERIAL	SPECIFICATION	GRADE	COATING
ROLLED L, S & C SECTIONS	CSA G40.21	44W (300W)	
ROLLED W SECTIONS	CSA G40.21	50W (350W)	
HSS SECTIONS	CSA G40.21 CLASS C	50W (350W)	
	ASTM A500 CLASS C	50	
PIPE SECTIONS	ASTM A53	GRADE B	
PLATE (FLANGES & WEBS)	CSA G40.21 / ASTM A529, A572, A1011	50W (350W)	
SHOP PRIMER	CGSB 1-GP-40M		
DIAGONAL BRACE ROD	CSA G40.21	44W (300W)	
DIAGONAL BRACE CABLE	ASTM A475	EXTRA HIGH STRENGTH	
CORRUGATED PANELS			
GALVANIZED	ASTM A653 SQ	40 MIN	Z275 ZINC
GALVALUME	ASTM A792 SQ	40 MIN	AZ165 AL. ZINC
PAINTED	ASTM A653 SQ	40 MIN	Z275 ZINC
LIGHT GAUGE SECTIONS	ASTM A653 HSLA-F SQ	33 MIN & 55 CLI	Z275 ZINC
BOLTS LARGER THAN 1/2" Ø	ASTM A325		
1/2" Ø BOLTS	SAE	5 OR 8.2	ELECTROPLATE ZINC
3/8" Ø BOLTS	AISI C1018/1020	2, 5 OR 8.2	DTI500 OR J5500
SEALANTS	CGSB 19-GP-14M		

PARTITION WALLS

THE ROOF SYSTEM WILL DEFLECT UNDER LIVE LOAD AND WITH TEMPERATURE VARIANCES.
INTERIOR PARTITION WALLS MUST BE CONSTRUCTED WITH A SUFFICIENT SPACE BETWEEN THE TOP OF WALL AND THE UNDERSIDE OF CEILING SO THAT NO CONTACT IS MADE UNDER MAXIMUM DEFLECTION.
FAILURE TO DO SO WILL CREATE EXCESSIVE STRESSES IN THE ROOF SYSTEM.
CONSULT FACTORY FOR DEFLECTION SPECIFICATIONS AND/OR CONNECTION DETAILS.

FASTENER SCHEDULE

LOCATION	QTY	PART NO.	DESCRIPTION	GRADE/TYPE	COLOR
ROOF PANEL	1	998816	PHILLIPS KIT 500 - 3/8" x 1 1/4" [10x32]	2 DTI500	GALV.
WALL PANEL	4	998815250	PHILLIPS KIT 750 - 3/8" x 1 1/4" [10x32]	2 DTI500	DARK RED
CORNER PANEL	1	998815305	PHILLIPS KIT 750 - 3/8" x 1 1/4" [10x32]	2 DTI500	STONE GREY
ACCESSORIES					
FRAMES	865	TS0305121500	TEK SCREW 12-14 x 1 1/2" [38]	--	STONE GREY
RHF	120	TS0250121500	TEK SCREW 12-14 x 1 1/2" [38]	--	DARK RED
WEAR PLATES	135	TS0305121500	TEK SCREW 12-14 x 1 1/2" [38]	--	STONE GREY
FLOORS	2150	TS0001121000	TEK SCREW 12-14 x 1" [25]	--	GALV.

ALL FASTENERS LISTED ARE TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS.

REGISTERED PROFESSIONAL ENGINEER
DATE DEC 9/15
T. K. M. Veitch
11007
PROVINCE OF NOVA SCOTIA

THIS PROFESSIONAL ENGINEERING SEAL APPLIES ONLY TO THE DESIGN OF THE PRODUCTS SUPPLIED BY BEHLEN INDUSTRIES LP, IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE OF CANADA.

FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

GENERAL INFORMATION AND CONFORMANCE

LETTER	DESCRIPTION / REVISIONS	NAME	DATE
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

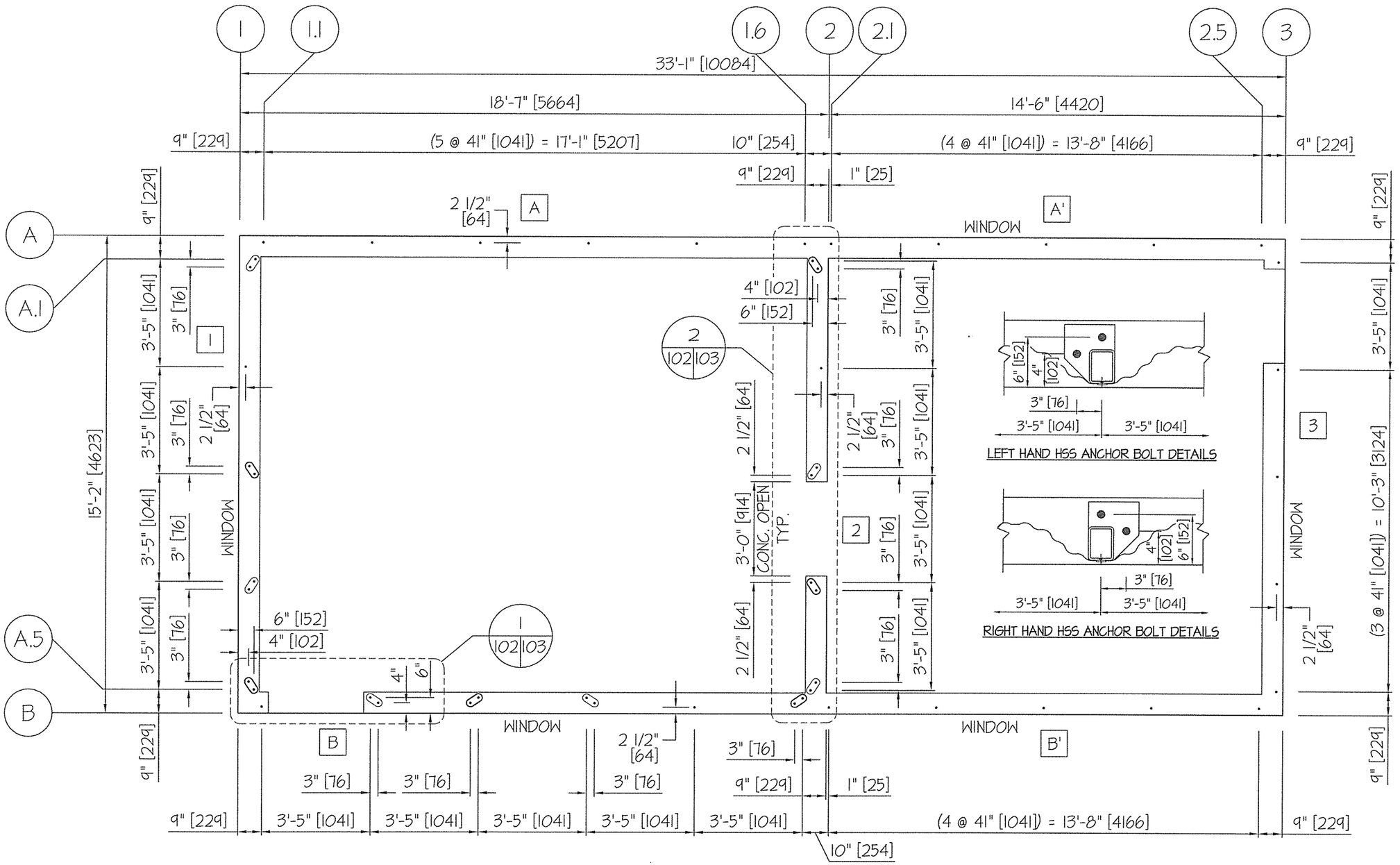
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BM
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

SHEET 101
REV. 0

BEHLEN Made Strong

927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003



A ~ TYPICAL WALL MARK INDICATOR, SEE SCHEDULE ON SHEET 104

(1.1) ~ TYPICAL GRIDLINE AT 41" INCREMENTS

REGISTERED PROFESSIONAL ENGINEER
DATE DEC 9/15
T. K. M. Veitch
11007
PROVINCE OF NOVA SCOTIA

THIS PROFESSIONAL ENGINEERING SEAL APPLIES ONLY TO THE DESIGN OF THE PRODUCTS SUPPLIED BY BEHLEN INDUSTRIES LP, IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE OF CANADA.

FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

ANCHOR BOLT PLAN

LETTER	DESCRIPTION (REVISIONS)	NAME	DATE
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

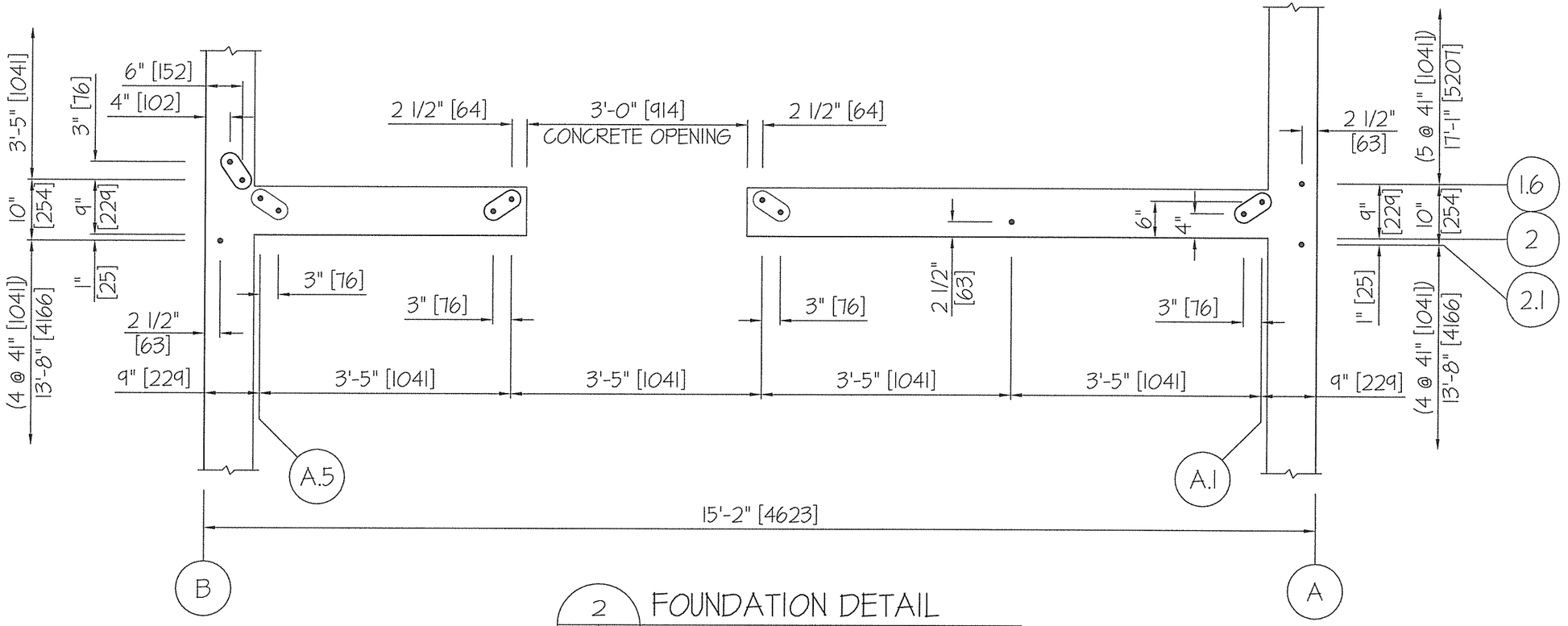
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: DH
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

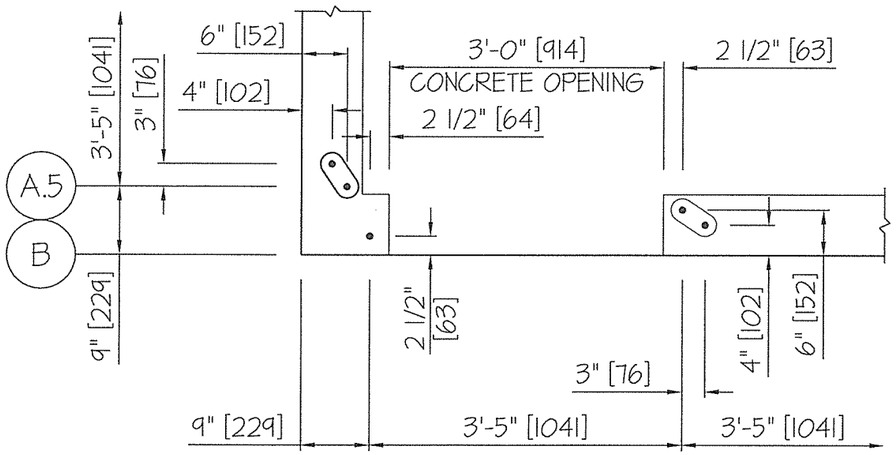
SHEET 102
REV. 0

BEHLEN Made Strong

927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003



2 / 102|103 FOUNDATION DETAIL



1 / 102|103 FOUNDATION DETAIL

THIS PROFESSIONAL ENGINEERING SEAL APPLIES ONLY TO THE DESIGN OF THE PRODUCTS SUPPLIED BY BEHLEN INDUSTRIES LP, IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE OF CANADA.

REGISTERED PROFESSIONAL ENGINEER · PROVINCE OF NOVA SCOTIA · DATE DEC 9/15 · T. K. M. Veitch · 11007

FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

ANCHOR BOLT DETAILS

LETTER	DESCRIPTION / REVISIONS	NAME	DATE
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: TN
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

SHEET 103
REV. 0

BEHLEN Made Strong

927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003

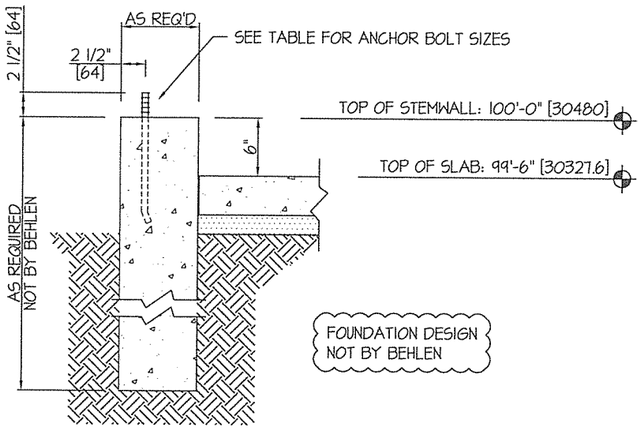
HALIFAX, NS

DESIGN LOADS (NBCC 2010)	
IMPORTANCE CATEGORY	Normal
SNOW - Ss	1.9 kPa (39.71 PSF)
SNOW - Sr	0.6 kPa (12.54 PSF)
DRIFT SURCHARGE	
TOWER	0.93 kPa (19.45 PSF)
ANNEX	2.28 kPa (47.65 PSF)
WIND - Q1/50	0.58 kPa (12.12 PSF)
WIND EXPOSURE	Open Terrain
SEISMIC - SA(0.2)	0.230
SEISMIC - SA(0.5)	0.150
SEISMIC - SA(1.0)	0.085
SEISMIC - SA(2.0)	0.027
SEISMIC - SITE CLASS	D
ROOF LIVE	4.8 kPa (100 PSF)
FLOOR LIVE	4.8 kPa (100 PSF)
ATTIC LIVE	4.8 kPa (100 PSF)
COLLATERAL	0.24 kPa (5 PSF)
DEAD	0.24 kPa (5 PSF)
4" CONCRETE SLAB	1.85 kPa (38 PSF)
PADGENITE	0.43 kPa (9 PSF)
ROOF PANELS SPAN	N-S
ROOF & FLOOR JOISTS SPAN	E-W

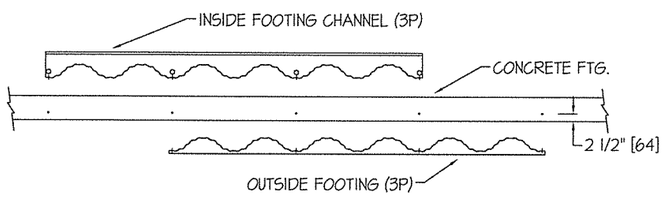
TOWER	
BUILDING SPAN	15'-1" [4597]
BUILDING LENGTH	18'-6" [5639]
BUILDING HEIGHT	37'-6" [11430]
ANNEX	
BUILDING SPAN	15'-1" [4597]
BUILDING LENGTH	14'-6" [4420]
BUILDING HEIGHT	9'-4 1/4" [2851]

WALL ID	ANCHOR BOLTS	GRAVITY LOAD (lbs/ft, [kN/m]) DEAD	GRAVITY LOAD (lbs/ft, [kN/m]) LIVE	WIND SHEAR LOAD (lbs, [kN])	SEISMIC SHEAR LOAD (lbs, [kN])	CONCENTRATED REACTIONS GRID LINE	DEAD (kips, [kN])	LIVE (kips, [kN])	WIND (kips, [kN])	SEISMIC (kips, [kN])
A	1" [25]	228 [3.33]	400 [5.84]	8747 [38.91]	8595 [38.23]	1.1	----	----	±10.96 [±48.75]	±13.20 [±58.72]
						1.6	----	----	±10.96 [±48.75]	±13.20 [±58.72]
B	1" [25]	228 [3.33]	400 [5.84]	8747 [38.91]	8595 [38.23]	1.1	0.39 [1.73]	0.68 [3.02]	----	----
						1.2	0.39 [1.73]	0.68 [3.02]	±18.27 [±81.27]	±22.00 [±97.86]
						1.3	0.39 [1.73]	0.68 [3.02]	±18.27 [±81.27]	±22.00 [±97.86]
						1.4	0.39 [1.73]	0.68 [3.02]	±18.27 [±81.27]	±22.00 [±97.86]
						1.6	----	----	±18.27 [±81.27]	±22.00 [±97.86]
A'	3/4" [19]	144 [2.10]	755 [11.02]	----	----	2.2	0.25 [1.11]	1.29 [5.74]	----	----
						2.3	0.25 [1.11]	1.29 [5.74]	----	----
B'	3/4" [19]	144 [2.10]	755 [11.02]	----	----	2.2	0.25 [1.11]	1.29 [5.74]	----	----
						2.3	0.25 [1.11]	1.29 [5.74]	----	----
1	1" [25]	2112 [30.82]	3700 [54.00]	10746 [47.80]	6934 [30.85]	A.1	----	----	±22.44 [±99.82]	±18.80 [±83.63]
						A.3	3.61 [16.06]	6.32 [28.11]	±22.44 [±99.82]	±18.80 [±83.63]
						A.4	3.61 [16.06]	6.32 [28.11]	±22.44 [±99.82]	±18.80 [±83.63]
						A.5	----	----	±22.44 [±99.82]	±18.80 [±83.63]
2	1" [25]	2131 [31.10]	3800 [55.46]	11926 [53.05]	8595 [38.23]	A.1	----	----	±23.59 [±104.94]	±22.00 [±97.86]
						A.3	3.64 [16.19]	6.49 [28.87]	±23.59 [±104.94]	±22.00 [±97.86]
						A.4	3.64 [16.19]	6.49 [28.87]	±23.59 [±104.94]	±22.00 [±97.86]
						A.5	----	----	±23.59 [±104.94]	±22.00 [±97.86]
3	3/4" [19]	19 [0.28]	100 [1.46]	1180 [5.25]	899 [4.00]	A.1	0.03 [0.13]	0.17 [0.76]	----	----
						A.2	0.03 [0.13]	0.17 [0.76]	±1.73 [±7.70]	±1.32 [±5.87]
						A.3	0.03 [0.13]	0.17 [0.76]	±1.73 [±7.70]	±1.32 [±5.87]
						A.4	0.03 [0.13]	0.17 [0.76]	±1.73 [±7.70]	±1.32 [±5.87]
						A.5	----	----	±1.73 [±7.70]	±1.32 [±5.87]

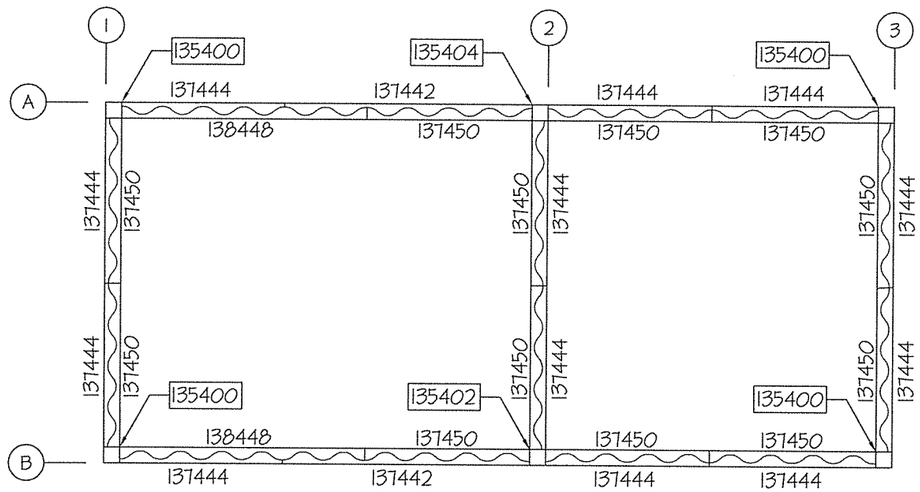
NOTES:
1. ALL GRID LINES INDICATE CONCRETE LINES.
2. SHEAR LOADS & UPLIFT REACTIONS HAVE NOT BEEN REDUCED.
   + DOWNWARD, - UPLIFT
3. SHEAR LOADS MAY REVERSE.



FOUNDATION DETAIL TYP.



ERECTION NOTE: STAGGER FOOTING CHANNEL AS SHOWN



FOOTING CHANNEL LAYOUT

FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

ANCHOR BOLT DETAILS

LETTER	DESCRIPTION	NAME	DATE
	REVISIONS		
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

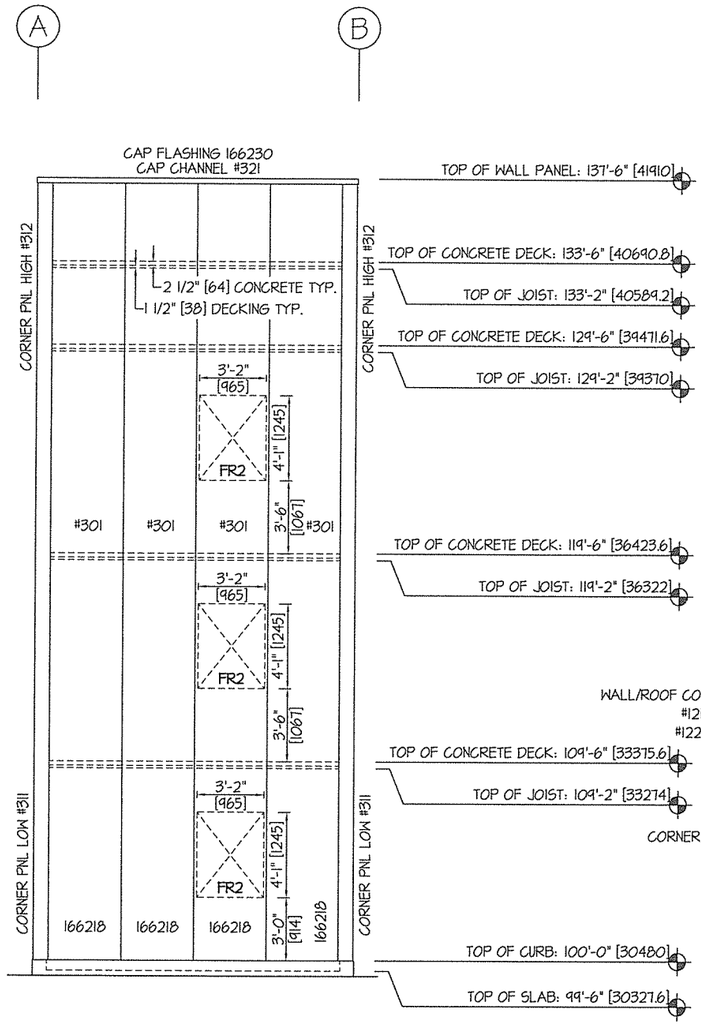
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BH
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

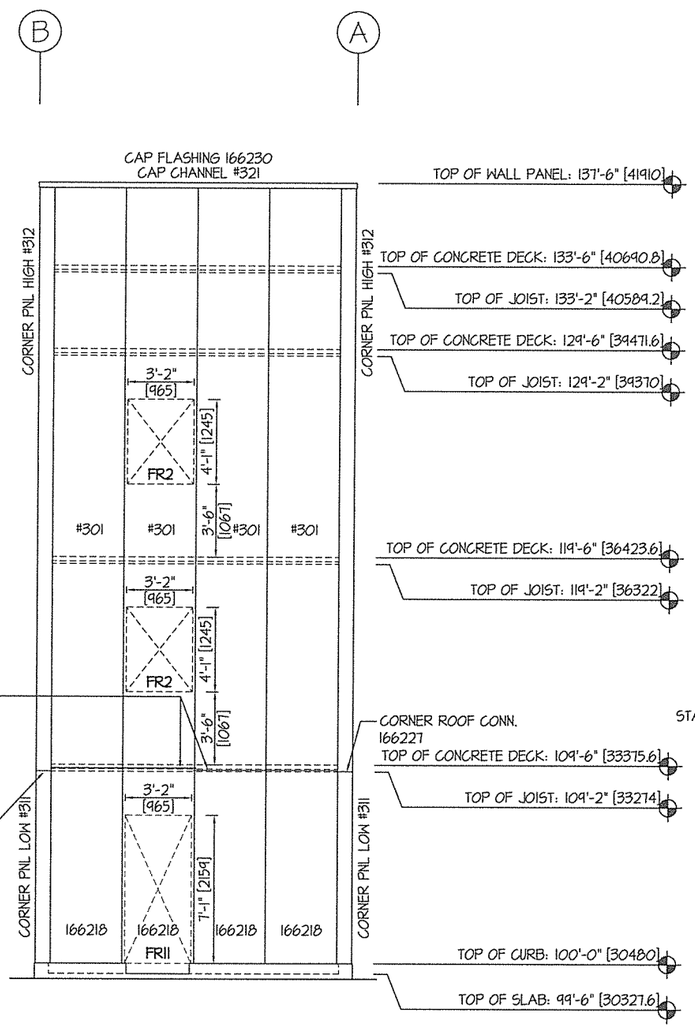
SHEET 104
REV. 0

BEHLEN
Made Strong

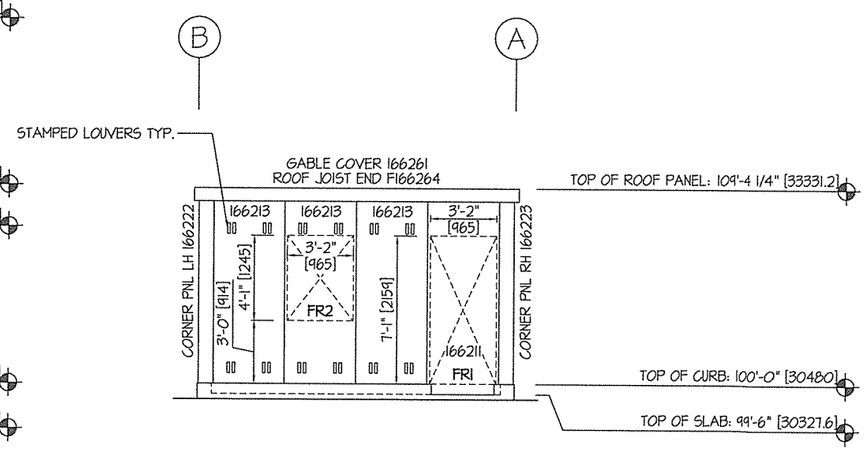
427 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003



LEFT SIDE ELEVATION
AT GRID LINE 1



RIGHT SIDE ELEVATION
AT GRID LINE 2



RIGHT SIDE ELEVATION
AT GRID LINE 3

WALL PANEL SUMMARY
GRID LINE 1 ~ CS45-18GA FULL HEIGHT
GRID LINE 2 ~ CS45-18GA FULL HEIGHT
GRID LINE 3 ~ CS45-18GA FULL HEIGHT

NOTE:
ALL SIDE WALL, END WALL, RIGIDIZED PANELS, CORNER PANELS AND WALL FLASHINGS ARE DARK RED.
ALL ROOF PANELS ARE GALVANIZED.
ALL GABLE COVERS, BUMPERS, PARAPET CAPS AND FRAMED OPENINGS ARE STONE GREY.
13 WEAR PLATES REQ'D STONE GREY.

STAMPED LOUVERS:
THE TOP OF ALL LOWER STAMPED LOUVERS ARE 1'-0" [305] ABOVE THE STEM WALL AND 1'-0" [305] ABOVE THE FINISHED FLOOR ELEVATIONS AT ALL UPPER LEVELS.
THE TOP OF ALL UPPER STAMPED LOUVERS ARE 7'-8" [2337] ABOVE THE STEM WALL AND 7'-8" [2337] ABOVE THE FINISHED FLOOR ELEVATIONS AT ALL UPPER LEVELS.

REGISTERED PROFESSIONAL ENGINEER · PROVINCE OF NOVA SCOTIA · DATE DEC 9/15 · T. K. M. Veitch · 11007

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FOR ASSEMBLY

LETTER	DESCRIPTION / REVISIONS	NAME	DATE
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

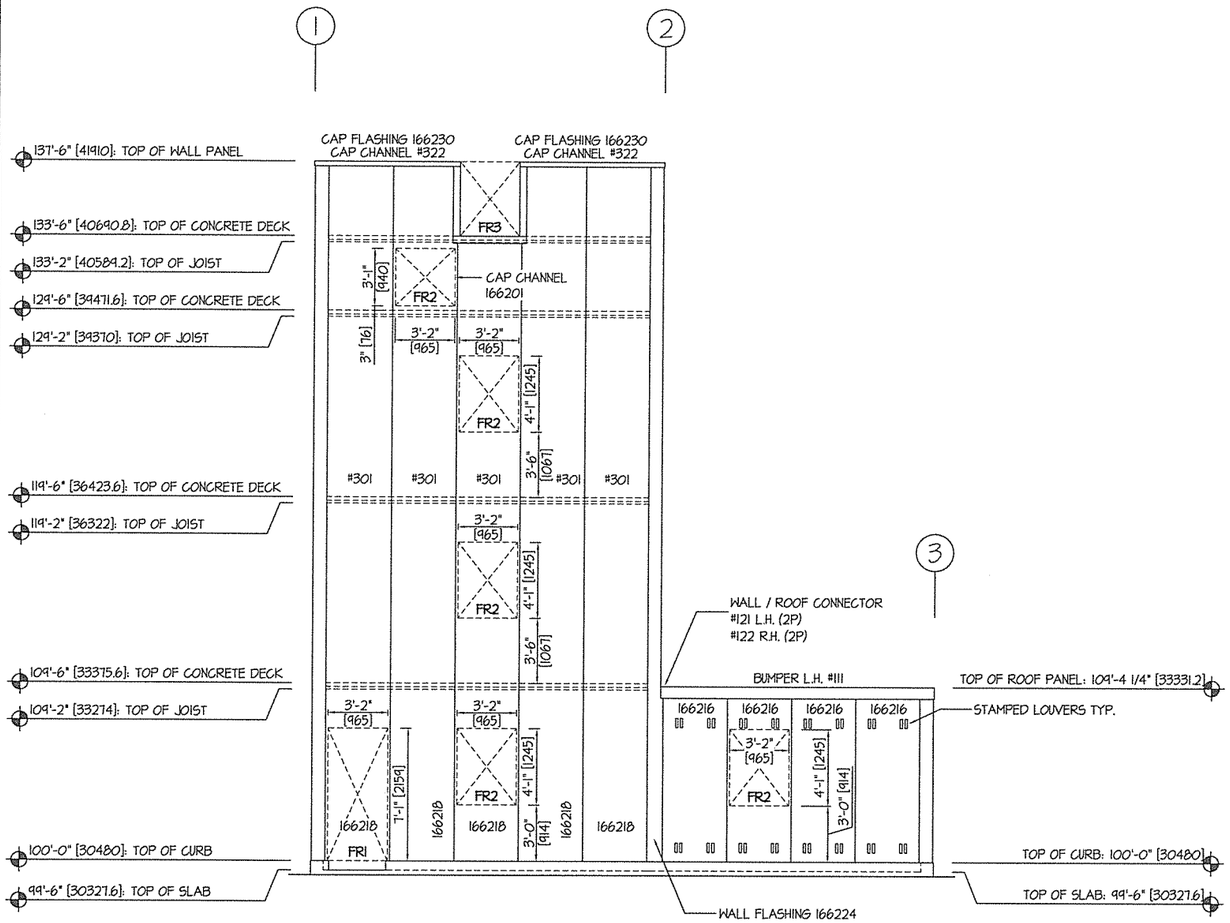
FIRETOWER ELEVATIONS

BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BY
HOUSE ORDER: 103830

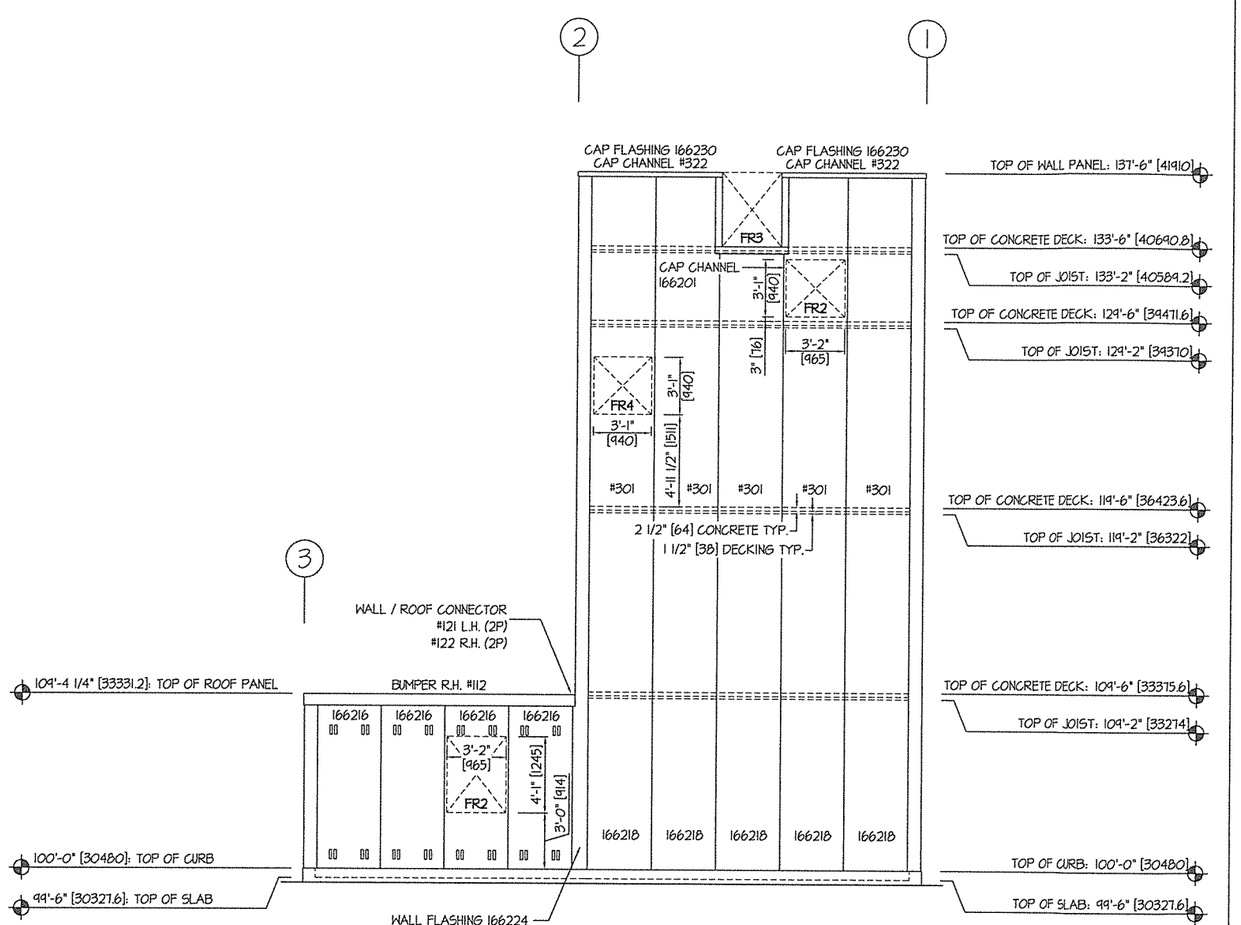
DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

SHEET 201
REV. 0

BEHLEN
Made Strong
927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003



FRONT SIDE ELEVATION
AT GRID LINE B



REAR SIDE ELEVATION
AT GRID LINE A

WALL PANEL SUMMARY
GRID LINE A ~ CS45-18GA FULL HEIGHT
GRID LINE B ~ CS45-18GA FULL HEIGHT
GRID LINE A' ~ CS45-18GA FULL HEIGHT
GRID LINE B' ~ CS45-18GA FULL HEIGHT

NOTE:
ALL SIDE WALL, END WALL, RIGIDIZED PANELS, CORNER PANELS AND WALL FLASHINGS ARE DARK RED.
ALL ROOF PANELS ARE GALVANIZED.
ALL GABLE COVERS, BUMPERS, PARAPET CAPS AND FRAMED OPENINGS ARE STONE GREY.
13 WEAR PLATES REQ'D STONE GREY.

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REGISTERED PROFESSIONAL ENGINEER
DATE DEC 9/15
T. K. M. Veitch
11007
PROVINCE OF NOVA SCOTIA

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FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

FIRETOWER ELEVATIONS

LETTER	DESCRIPTION	NAME	DATE
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15
	REVISIONS		

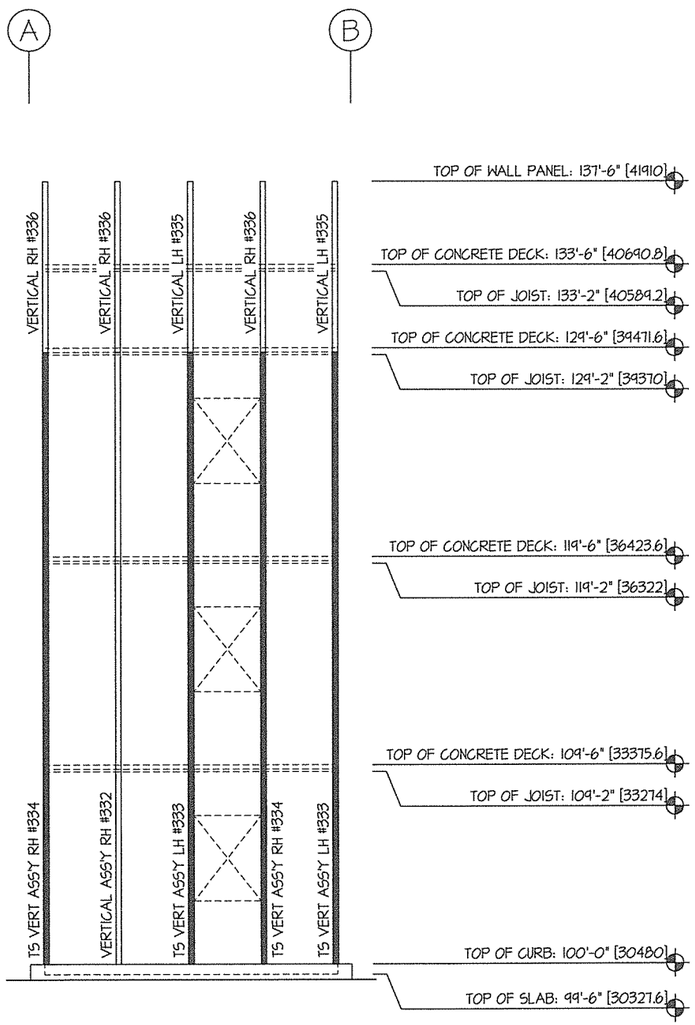
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BY
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

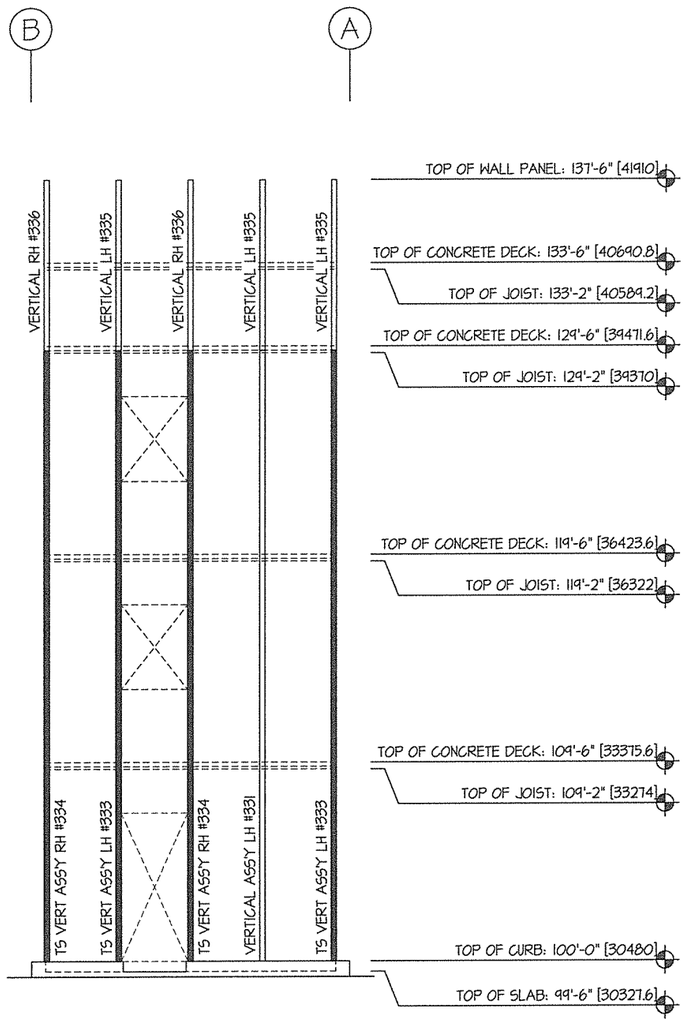
SHEET 202
REV. 0

BEHLEN
Made Strong

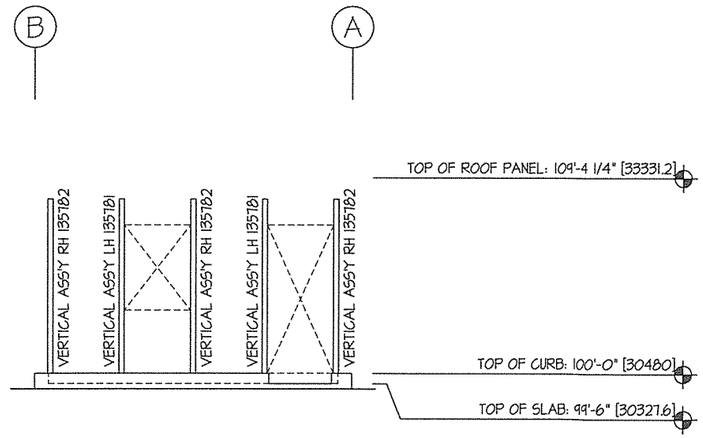
927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003



LEFT SIDE ELEVATION
AT GRID LINE 1



RIGHT SIDE ELEVATION
AT GRID LINE 2



RIGHT SIDE ELEVATION
AT GRID LINE 3

NOTE:
ALL OPENING DIMENSIONS AND FRAME CALL OFFS SUPPLIED ON SHEETS 201 & 202.

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DATE DEC 9/15
T. K. M. Veitch
11007

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FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

FIRETOWER VERTICAL ELEVATIONS

LETTER	DESCRIPTION	NAME	DATE
	REVISIONS		
0	ISSUED FOR ASSEMBLY	C.G.	DEC 9/15

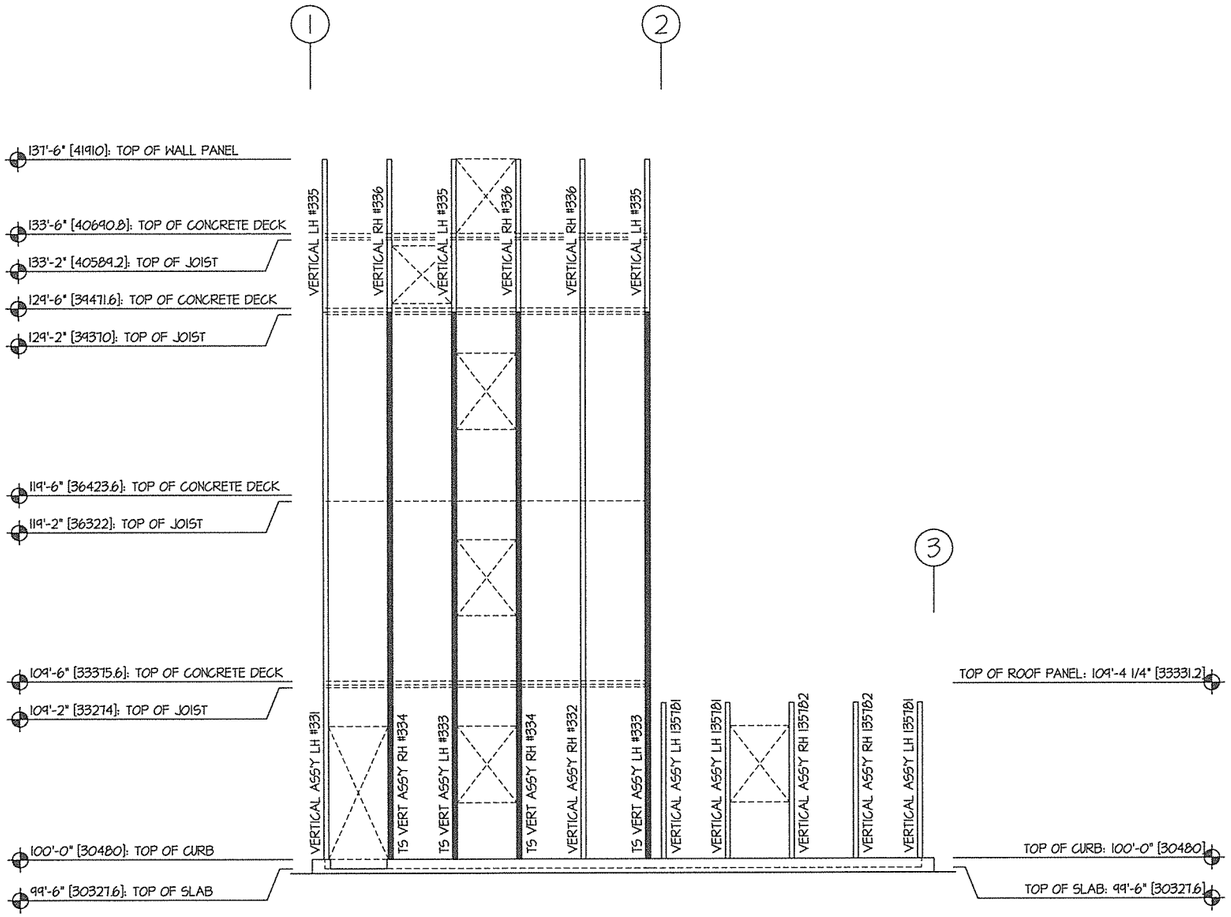
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BH
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

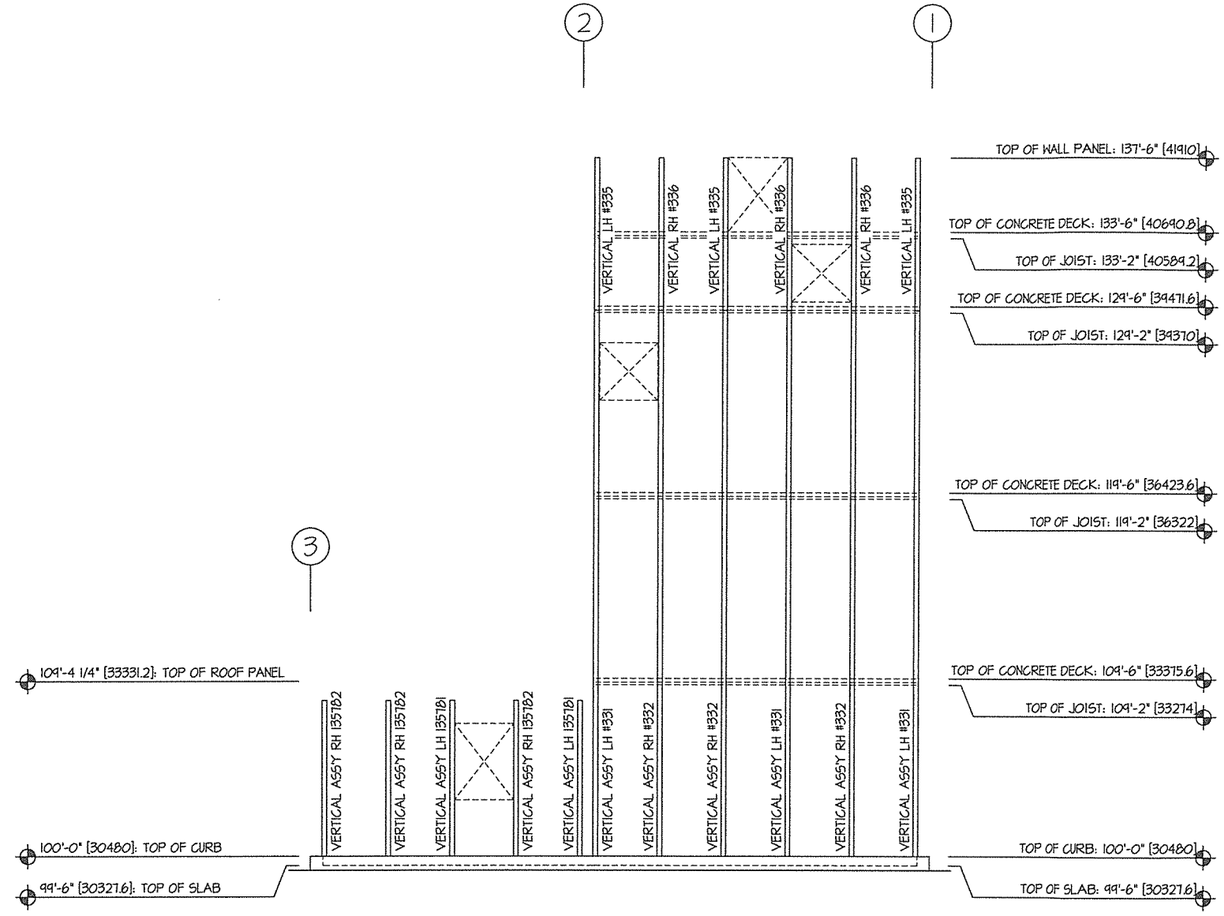
SHEET 301
REV. 0

BEHLEN
Made Strong

927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003



FRONT SIDE ELEVATION
AT GRID LINE B



REAR SIDE ELEVATION
AT GRID LINE A

NOTE:
ALL OPENING DIMENSIONS AND FRAME CALL OFFS SUPPLIED ON SHEETS 201 & 202.

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DATE DEC 9/15
T. K. M. Veitch
11007

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FOR ASSEMBLY

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FIRETOWER VERTICAL ELEVATIONS

LETTER	DESCRIPTION	NAME	DATE
0	ISSUED FOR ASSEMBLY	C.G.	DEC 9/15
	REVISIONS		

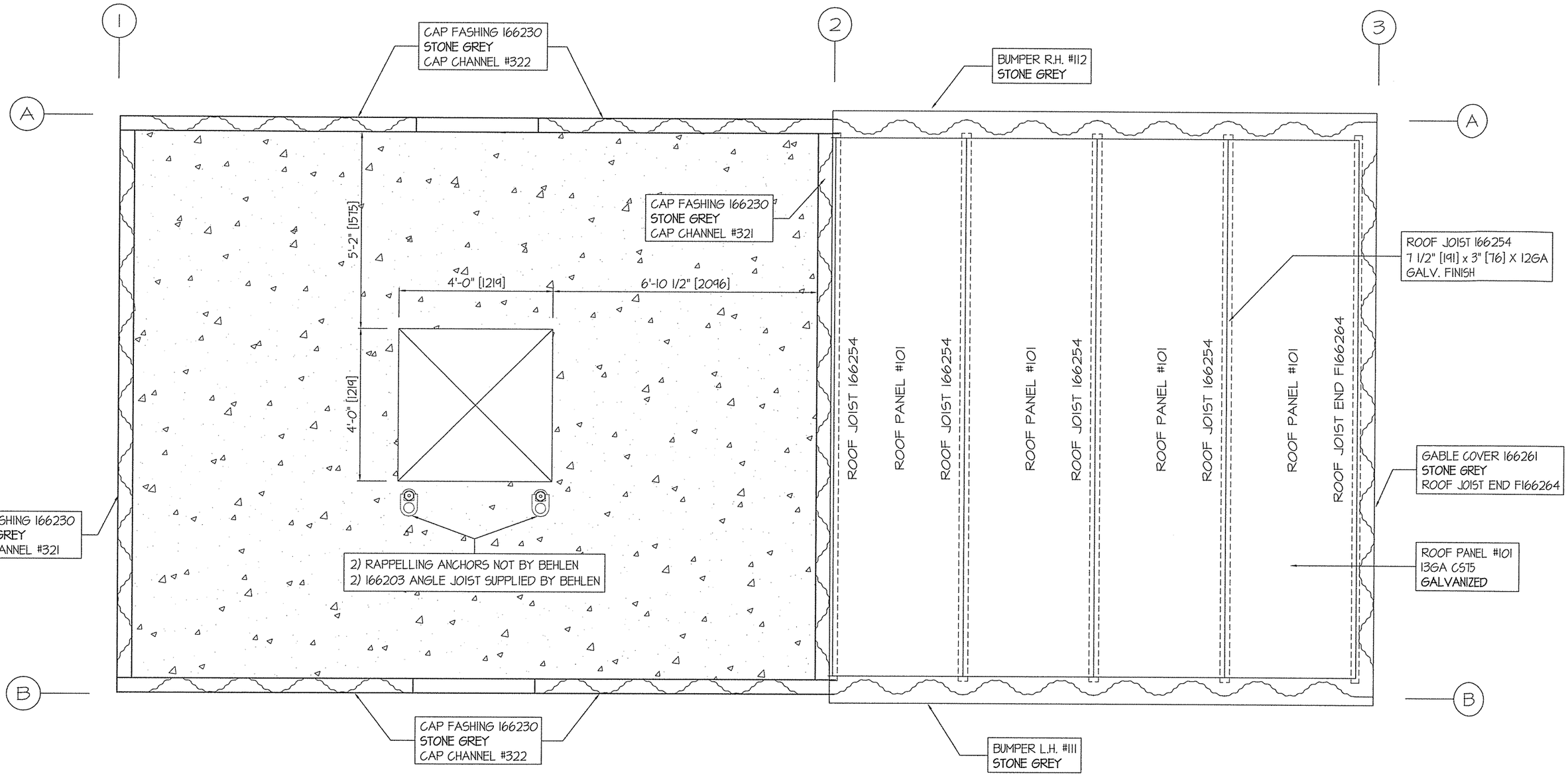
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BH
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

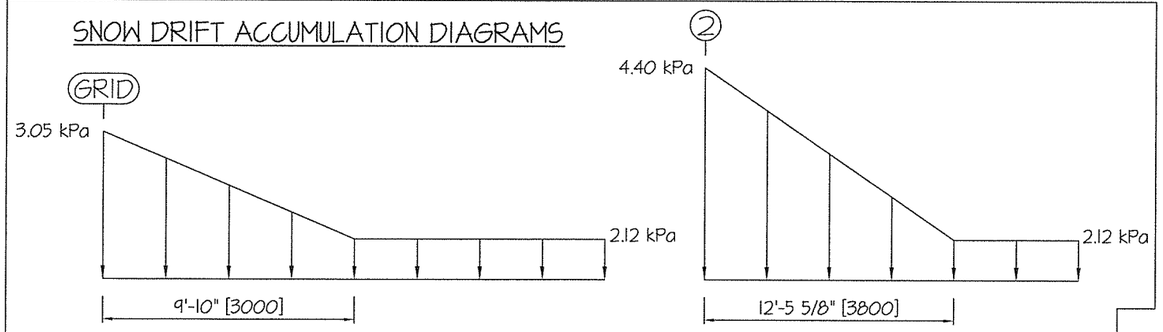
SHEET 302
REV. 0

BEHLEN
Made Strong

927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003



SNOW DRIFT ACCUMULATION DIAGRAMS



TOWER - TYPICAL ALL FOUR WALLS

ANNEX

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DATE NOV 20/15
T. K. M. Veitch
11007

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ROOF PLAN VIEW

LETTER	DESCRIPTION	NAME	DATE
	REVISIONS		
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

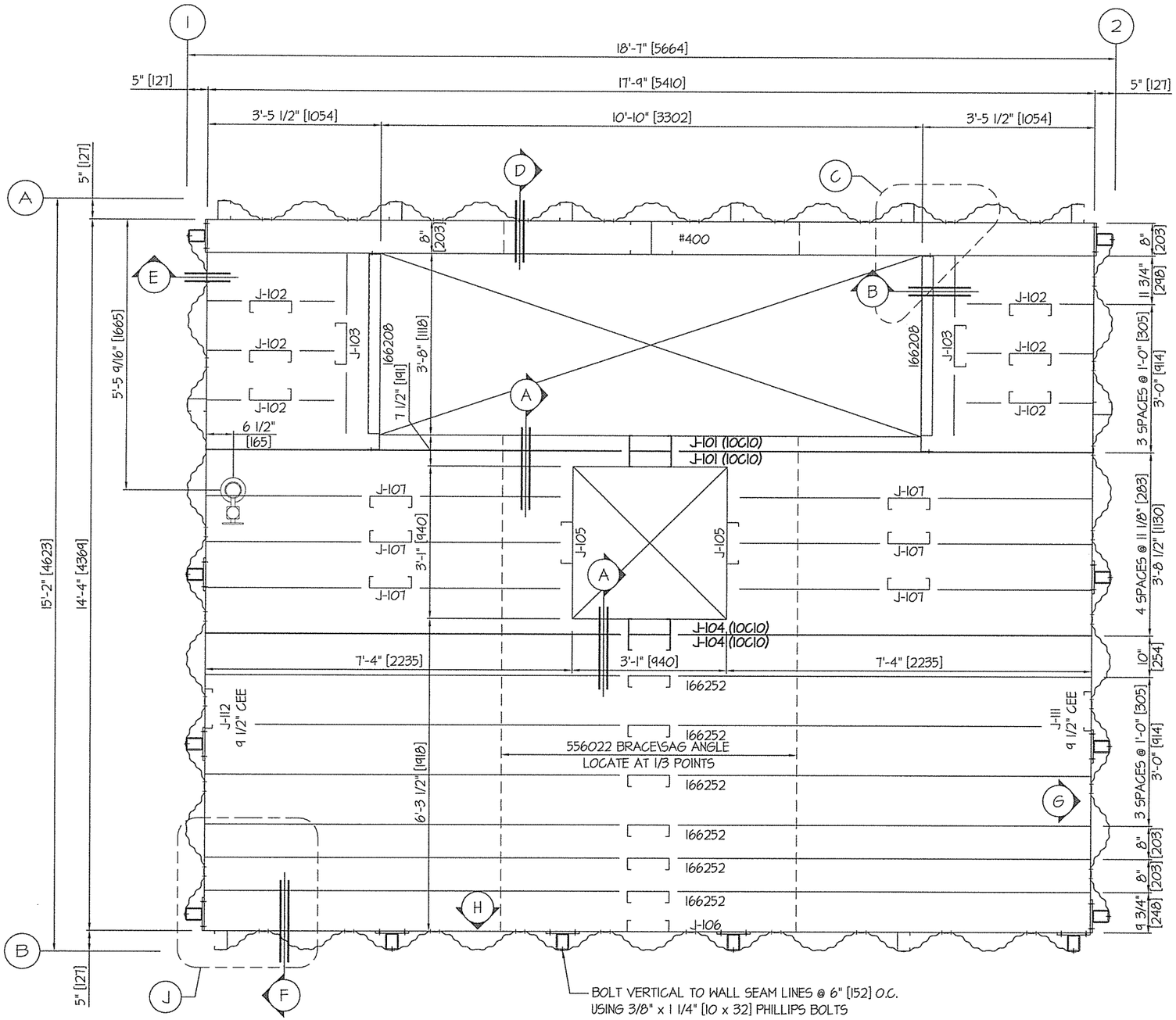
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BH
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

SHEET 401
REV. 0

BEHLEN
Made Strong

921 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003



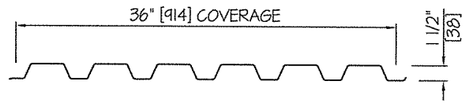
BOLT VERTICAL TO WALL SEAM LINES @ 6" [152] O.C.
USING 3/8" x 1 1/4" [10 x 32] PHILLIPS BOLTS

1 FLOOR SYSTEM REQUIRED

103830FC & 103830LG

QTY.	MK #	DESCRIPTION
24	166820	SUPPORT CLIP 10"
20	556007	GIRT CLIP
2	556022	BRACE/SAG ANGLES
6	166252	10C14 JOIST 213"
2	**J-101**	**10C10 JOIST 213"**
6	J-102	10C14 JOIST 30 1/2"
2	J-103	10C14 JOIST 43 1/2"
2	166208	10" CEE JOIST
2	**J-104**	**10C10 JOIST 213"**
2	J-105	10C14 JOIST 36 1/2"
1	J-106	10C14 JOIST 213"
6	J-107	10C14 JOIST 85"
1	J-111	CUSTOM 9.5C12 GIRT 172"
1	J-112	CUSTOM 9.5C12 GIRT 172"
1	#400	8" CEE 12GA. JOIST ASS'Y
2	#411	STAIRWAY FLASHING (129 3/4")
2	166105	STAIRWAY FLASHING (43 3/4")
4	#414	STAIRWAY FLASHING (36 3/4")
2	#421	FLAT STOCK FOR SUPPORT JOIST
12	166207	DECK FLASHING 131"

ELITE RIB DECKING - 24GA



DECKING NOTE: DECKING SHALL BE FASTENED TO JOISTS WITH A MINIMUM #12 TEK SCREW @ 12" ACROSS THE WIDTH OF THE PANEL AND @ 6" [152] AROUND THE PERIMETER OF THE BUILDING. SIDE LAPS SHALL BE STITCHED @ 12" [305] O.C.

FLASHING NOTE: FLASHING SHALL BE FASTENED TO DECK/JOISTS WITH A MINIMUM #12 TEK SCREW @ 6" [152] O.C.

BRACE ANGLE NOTE: BRACE ANGLE - L 1 3/8" x 1 3/8" [35 x 35] 12 GA. TWO ROWS AT THIRD POINTS.

DECKING SHALL BE FASTENED TO JOISTS WITH A MINIMUM #12 TEK SCREW @ 3" [76] O.C. ALONG THE LENGTH OF THE THE FLOOR OPENING TYPICAL ON ALL FOUR SIDES

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DATE DEC 9/15
T. K. M. Veitch
11007

THIS PROFESSIONAL ENGINEERING SEAL APPLIES ONLY TO THE DESIGN OF THE PRODUCTS SUPPLIED BY BEHLEN INDUSTRIES LP, IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE OF CANADA.

FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

TOWER 2nd FLOOR

LETTER	DESCRIPTION	NAME	DATE
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15
	REVISIONS		

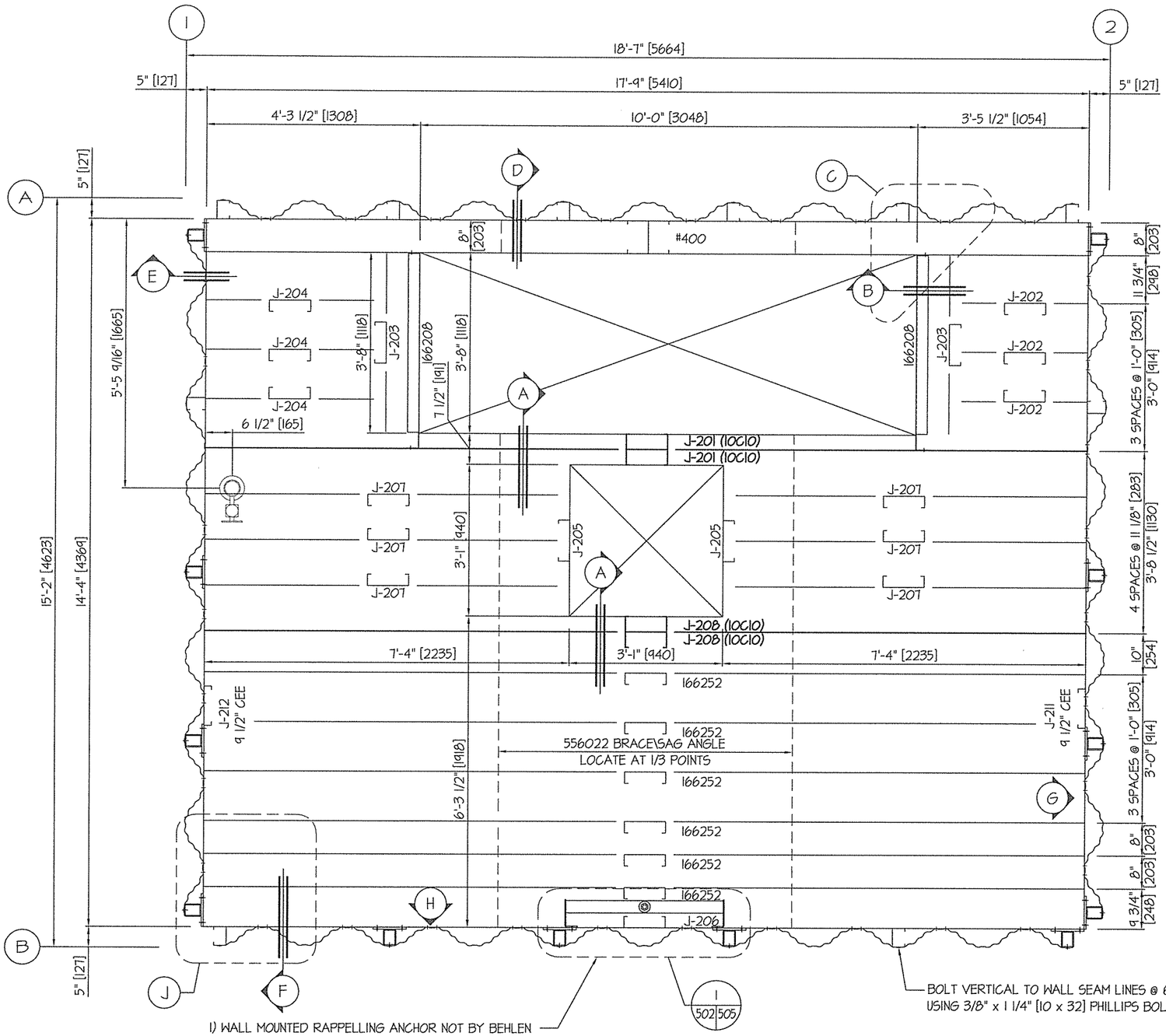
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BH
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

SHEET 501
REV. 0

BEHLEN
Made Strong

927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003



1) WALL MOUNTED RAPPELLING ANCHOR NOT BY BEHLEN
1) #341 TS SUPPORT SUPPLIED BY BEHLEN
SEE PAGE 505 FOR DETAILS

BOLT VERTICAL TO WALL SEAM LINES @ 6" [152] O.C.
USING 3/8" x 1 1/4" [10 x 32] PHILLIPS BOLTS

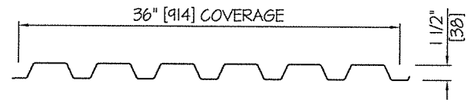
DECKING SHALL BE FASTENED TO JOISTS WITH A MINIMUM #12 TEK SCREW @ 3" [76] O.C. ALONG THE LENGTH OF THE THE FLOOR OPENING TYPICAL ON ALL FOUR SIDES

1 FLOOR SYSTEM REQUIRED

103830FC & 103830LG

QTY.	MK #	DESCRIPTION
24	166820	SUPPORT CLIP 10"
20	556007	GIRT CLIP
2	556022	BRACE/SAG ANGLES
6	166252	10C14 JOIST 213"
2	**J-201**	**10C10 JOIST 213"**
3	J-202	10C14 JOIST 30 1/2"
2	J-203	10C14 JOIST 43 1/2"
2	J-204	10C14 JOIST 40 1/2"
2	166208	10" CEE JOIST
2	J-205	10C14 JOIST 36 1/2"
1	J-206	10C14 JOIST 213"
6	J-207	10C14 JOIST 85"
2	**J-208**	**10C10 JOIST 213"**
1	J-211	CUSTOM 9.5C12 GIRT 172"
1	J-212	CUSTOM 9.5C12 GIRT 172"
1	#400	8" CEE 12GA. JOIST ASS'Y
2	#412	STAIRWAY FLASHING (119 3/4")
2	166105	STAIRWAY FLASHING (43 3/4")
4	#414	STAIRWAY FLASHING (36 3/4")
2	#421	FLAT STOCK FOR SUPPORT JOIST
11	166207	DECK FLASHING 131"

ELITE RIB DECKING - 24GA



DECKING NOTE: DECKING SHALL BE FASTENED TO JOISTS WITH A MINIMUM #12 TEK SCREW @ 12" ACROSS THE WIDTH OF THE PANEL AND @ 6" [152] AROUND THE PERIMETER OF THE BUILDING. SIDE LAPS SHALL BE STITCHED @ 12" [305] O.C.

FLASHING NOTE: FLASHING SHALL BE FASTENED TO DECK/JOISTS WITH A MINIMUM #12 TEK SCREW @ 6" [152] O.C.

BRACE ANGLE NOTE: BRACE ANGLE - L 1 3/8" x 1 3/8" [35 x 35] 12 GA. TWO ROWS AT THIRD POINTS.

ULTIMATE RAPPELLING LOAD NOT TO EXCEED 3000 LBS [1360 kg] WHEN USING WALL MOUNTED RAPPELLING ANCHORS

REGISTERED PROFESSIONAL ENGINEER
DATE DEC 9/15
T. K. M. Veitch
11007
PROVINCE OF NOVA SCOTIA

THIS PROFESSIONAL ENGINEERING SEAL APPLIES ONLY TO THE DESIGN OF THE PRODUCTS SUPPLIED BY BEHLEN INDUSTRIES LP, IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE OF CANADA.

FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5634x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

TOWER 3rd FLOOR

LETTER	DESCRIPTION	NAME	DATE
	REVISIONS		
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

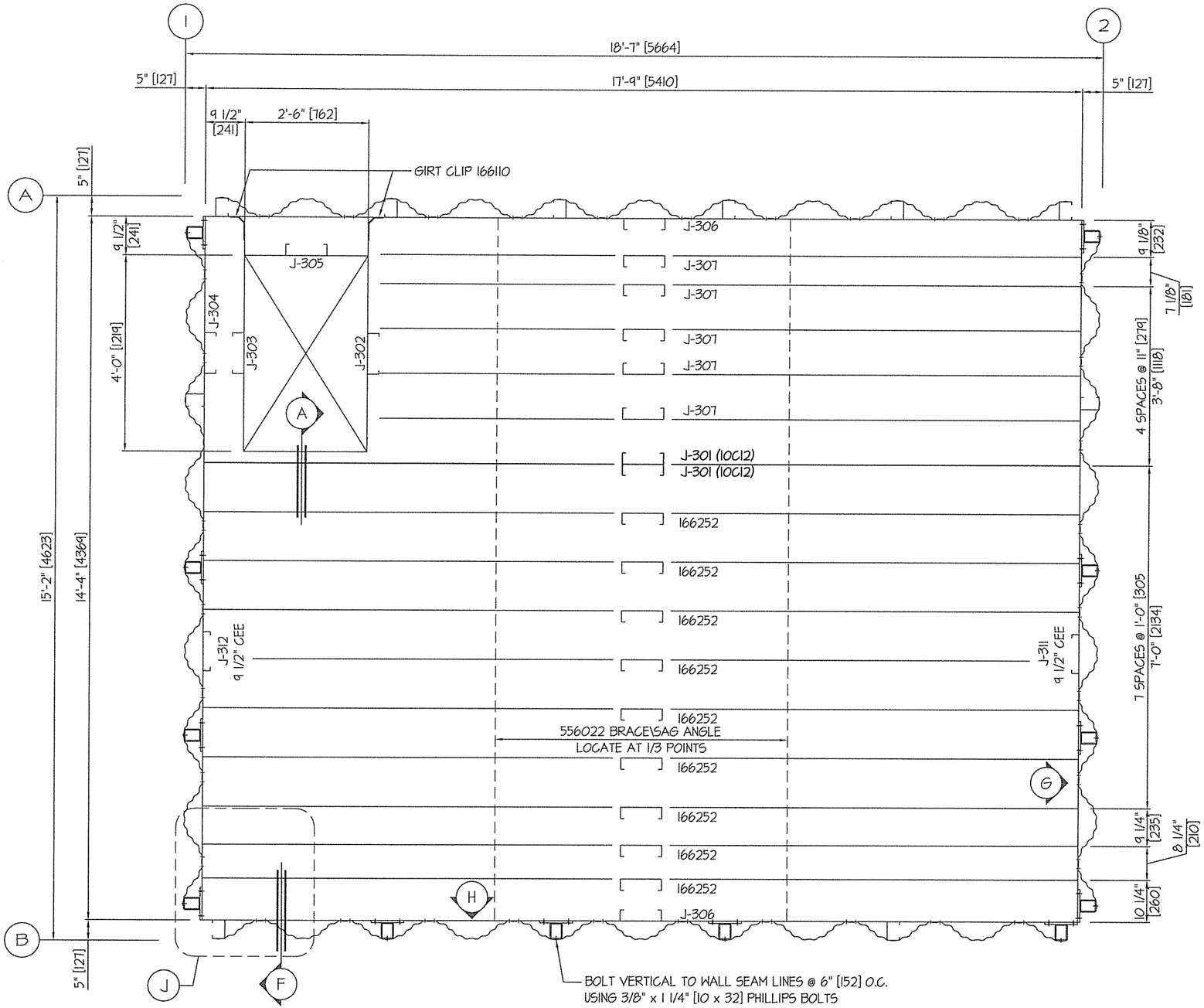
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BY
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

SHEET 502
REV. 0

BEHLEN
Made Strong

927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003

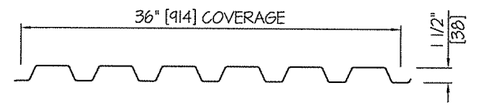


1 FLOOR SYSTEM REQUIRED

103830FC & 103830LG

QTY.	MK #	DESCRIPTION
23	166820	SUPPORT CLIP 10"
9	556007	GIRT CLIP
2	166110	GIRT CLIP
3	556022	BRACE/SAG ANGLES
9	166252	10C14 JOIST 213"
2	J-301	10C12 JOIST 213"
1	J-302	10C14 JOIST 54 1/4"
1	J-303	10C14 JOIST 54 1/4"
1	J-304	10C14 JOIST 54 1/4"
1	J-305	10C14 JOIST 29 1/2"
2	J-306	10C14 JOIST 213"
5	J-307	10C14 JOIST 170 1/2"
1	J-311	CUSTOM 9.5C12 GIRT 172"
1	J-312	CUSTOM 9.5C12 GIRT 172"
2	#413	STAIRWAY FLASHING (47 3/4")
2	166107	STAIRWAY FLASHING (29 3/4")
2	#421	FLAT STOCK FOR SUPPORT JOIST
9	166207	DECK FLASHING 131"

ELITE RIB DECKING - 24GA



DECKING NOTE: DECKING SHALL BE FASTENED TO JOISTS WITH A MINIMUM #12 TEK SCREW @ 12" ACROSS THE WIDTH OF THE PANEL AND @ 6" [152] AROUND THE PERIMETER OF THE BUILDING. SIDE LAPS SHALL BE STITCHED @ 12" [305] O.C.

FLASHING NOTE: FLASHING SHALL BE FASTENED TO DECK/JOISTS WITH A MINIMUM #12 TEK SCREW @ 6" [152] O.C.

BRACE ANGLE NOTE: BRACE ANGLE - L 1 3/8" x 1 3/8" [35 x 35] 12 GA. TWO ROWS AT THIRD POINTS.

DECKING SHALL BE FASTENED TO JOISTS WITH A MINIMUM #12 TEK SCREW @ 3" [76] O.C. ALONG THE LENGTH OF THE THE FLOOR OPENING TYPICAL ON ALL FOUR SIDES

REGISTERED PROFESSIONAL ENGINEER
DATE DEC 9/15
T. K. M. Veitch
11007
PROVINCE OF NOVA SCOTIA

THIS PROFESSIONAL ENGINEERING SEAL APPLIES ONLY TO THE DESIGN OF THE PRODUCTS SUPPLIED BY BEHLEN INDUSTRIES LP, IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE OF CANADA.

FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

TOWER 4th FLOOR

LETTER	DESCRIPTION	NAME	DATE
	REVISIONS		
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

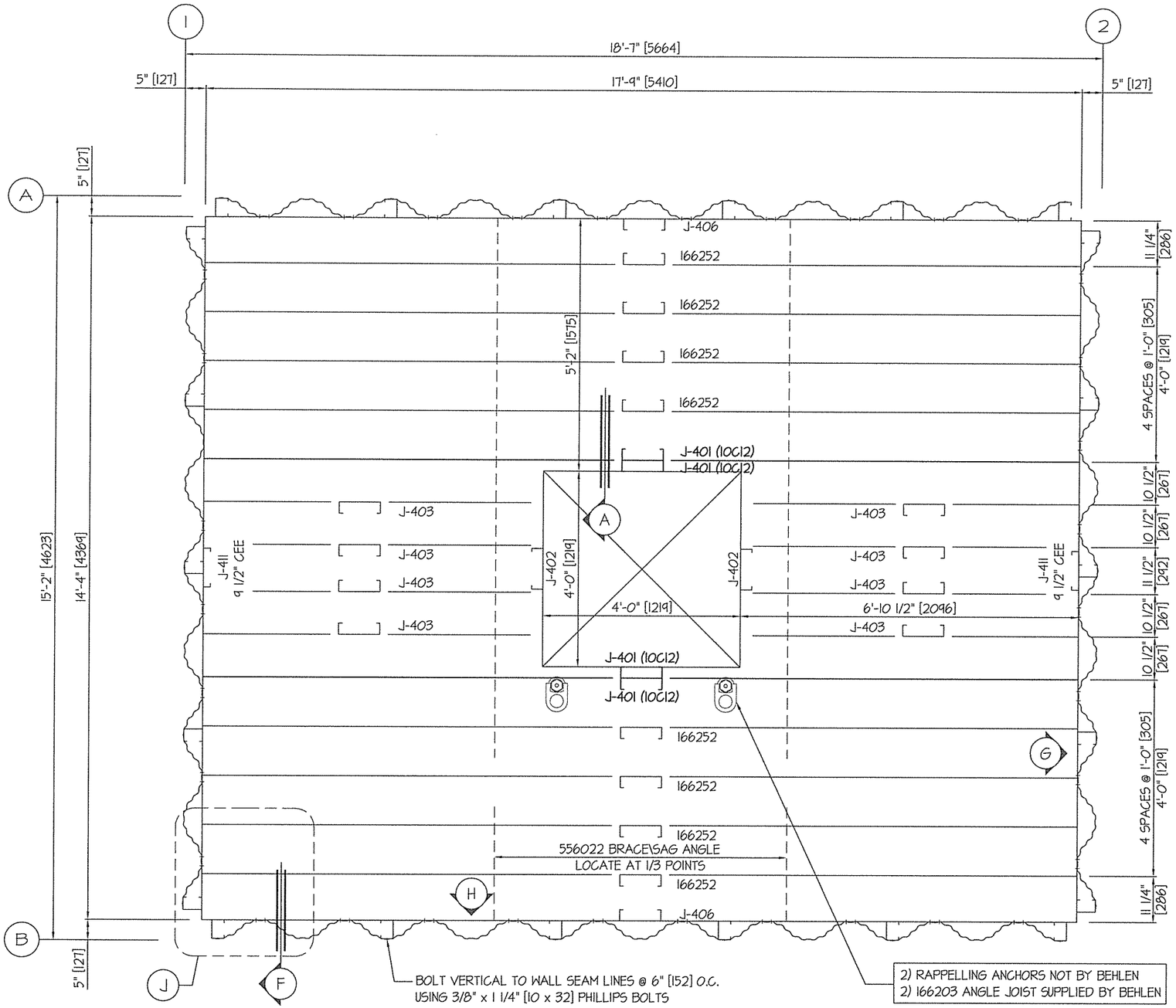
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BY
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

SHEET 503
REV. 0

BEHLEN Made Strong

927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003

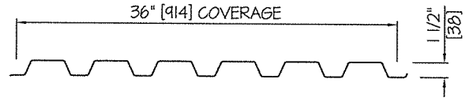


1 FLOOR SYSTEM REQUIRED

103830FC & 103830LG

QTY.	MK #	DESCRIPTION
24	166820	SUPPORT CLIP 10"
12	556007	GIRT CLIP
3	556022	BRACE/SAG ANGLES
8	166252	10C14 JOIST 213"
4	J-401	10C12 JOIST 213"
2	J-402	10C14 JOIST 47 1/2"
8	J-403	10C14 JOIST 79 1/2"
2	J-406	10C14 JOIST 213"
2	J-411	CUSTOM 9.5C12 GIRT 172"
4	#413	STAIRWAY FLASHING (47 3/4")
2	#421	FLAT STOCK FOR SUPPORT JOIST
9	166207	DECK FLASHING 131"

ELITE RIB DECKING - 24GA



DECKING NOTE: DECKING SHALL BE FASTENED TO JOISTS WITH A MINIMUM #12 TEK SCREW @ 12" ACROSS THE WIDTH OF THE PANEL AND @ 6" [152] AROUND THE PERIMETER OF THE BUILDING. SIDE LAPS SHALL BE STITCHED @ 12" [305] O.C.

FLASHING NOTE: FLASHING SHALL BE FASTENED TO DECK/JOISTS WITH A MINIMUM #12 TEK SCREW @ 6" [152] O.C.

BRACE ANGLE NOTE: BRACE ANGLE - L 1 3/8" x 1 3/8" [35 x 35] 12 GA. TWO ROWS AT THIRD POINTS.

DECKING SHALL BE FASTENED TO JOISTS WITH A MINIMUM #12 TEK SCREW @ 3" [76] O.C. ALONG THE LENGTH OF THE THE FLOOR OPENING TYPICAL ON ALL FOUR SIDES

REGISTERED PROFESSIONAL ENGINEER
DATE DEC 9/15
T. K. M. Veitch
11007
PROVINCE OF NOVA SCOTIA

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FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

TOWER 5th FLOOR / ROOF

LETTER	DESCRIPTION	NAME	DATE
	REVISIONS		
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

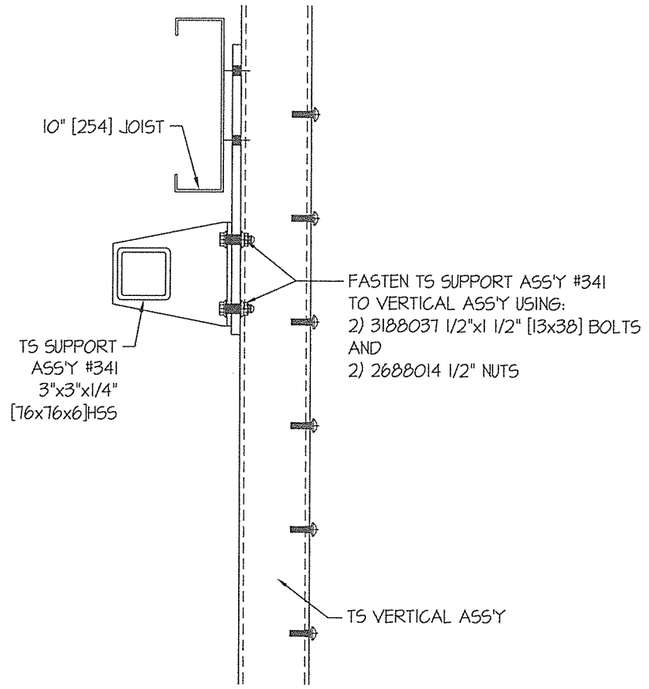
BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BH
HOUSE ORDER: 103830

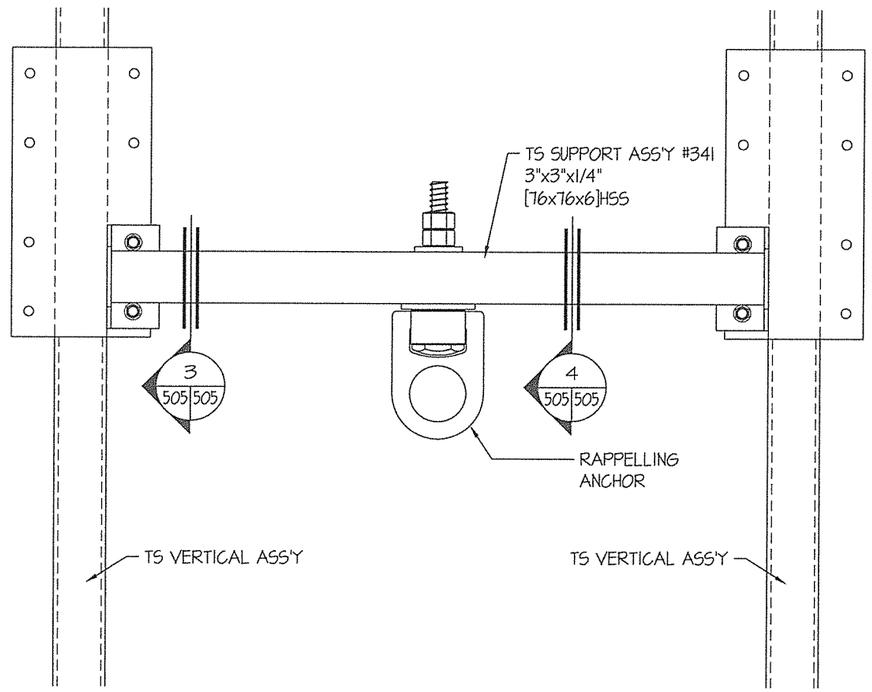
DEALER: WERNER-HERBISON-PADGETT OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

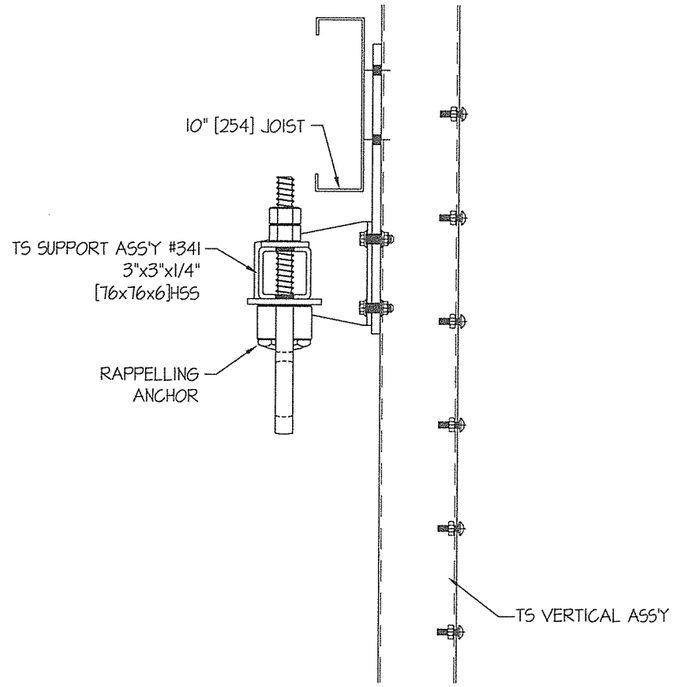
SHEET 504
REV. 0

BEHLEN
Made Strong

927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003







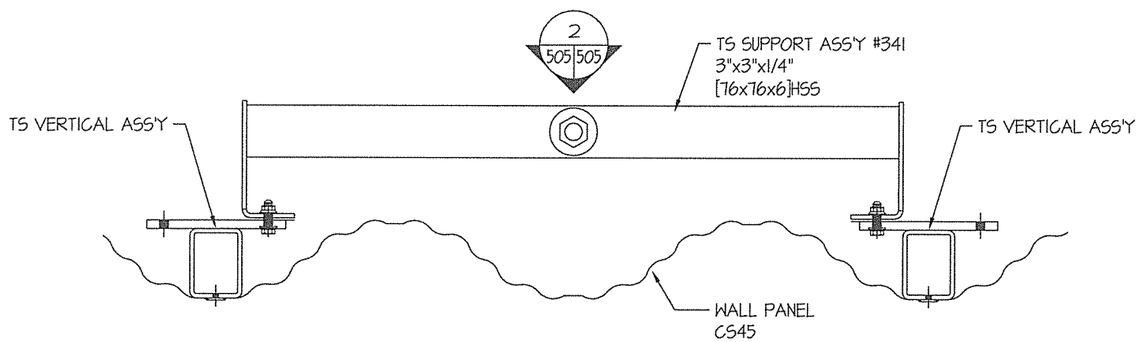
NOTE: WALL PANELS & SUPPORT JOIST NOT SHOWN FOR CLARITY.

3 / 505|505 SECTION THRU TS SUPPORT AT END

INTERIOR ELEVATION

4 / 505|505 SECTION THRU TS SUPPORT AT RAPPELLING ANCHOR

2 / 505|505 ELEVATION VIEW OF TS SUPPORT



NOTE: JOISTS NOT SHOWN FOR CLARITY.

1 / 502|505 PLAN VIEW OF RAPPELLING ANCHOR & SUPPORT

ULTIMATE RAPPELLING LOAD NOT TO EXCEED 3000 LBS [1360 kg]
WHEN USING WALL MOUNTED RAPPELLING ANCHORS

REGISTERED PROFESSIONAL ENGINEER
DATE DEC 9/15
T. K. M. Veitch
11007
PROVINCE OF NOVA SCOTIA

THIS PROFESSIONAL ENGINEERING SEAL APPLIES ONLY TO THE DESIGN OF THE PRODUCTS SUPPLIED BY BEHLEN INDUSTRIES LP, IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE OF CANADA.

FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

WALL MOUNTED RAPPELLING ANCHOR DETAILS

LETTER	DESCRIPTION	NAME	DATE
	REVISIONS		
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY: BY
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT
OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD
HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

SHEET 505
REV. 0

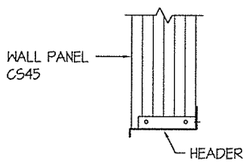
BEHLEN
Made Strong

927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003

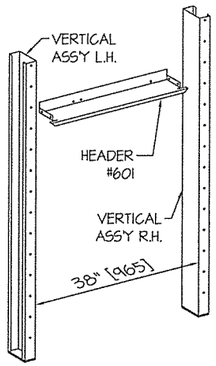
103830FR1 2 REQ'D

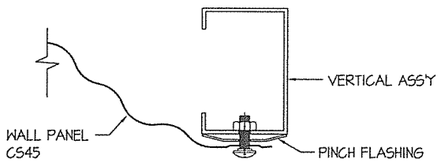
SINGLE WALK DOOR (EXTERIOR)
3'-2" x 7'-1" [965 x 2159]

QTY	PART NO.	DESCRIPTION
1	#601	HEADER
2	166198RD	PINCH FLASHING



WALK DOOR HEADER SECTION



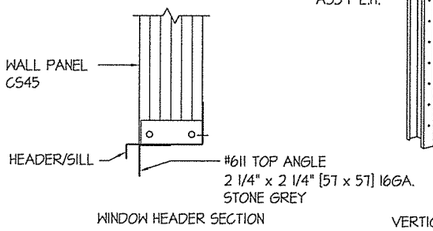


WALK DOOR VERTICAL SECTION

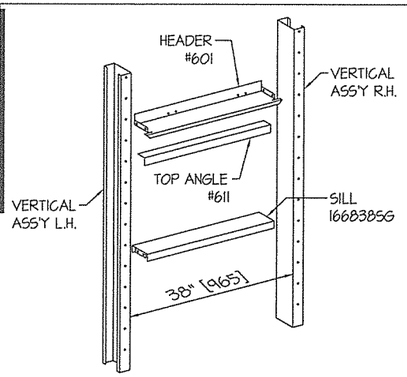
103830FR2 13 REQ'D

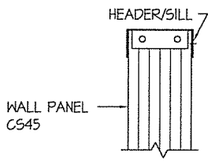
SINGLE WINDOW FRAME
3'-2" x 4'-1" [965 x 1245] 11 REQ'D
3'-2" x 3'-1" [965 x 940] 2 REQ'D
(EXTERIOR)

QTY	PART NO.	DESCRIPTION
1	#601	HEADER
1	166838SG	SILL
1	#611	TOP ANGLE
2	166815SG	JAMB FLASHING

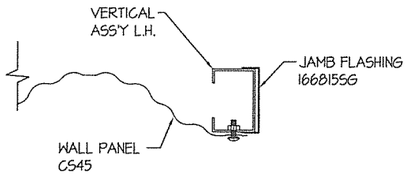


WINDOW HEADER SECTION





WINDOW SILL SECTION

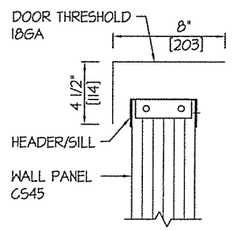


WINDOW VERTICAL SECTION

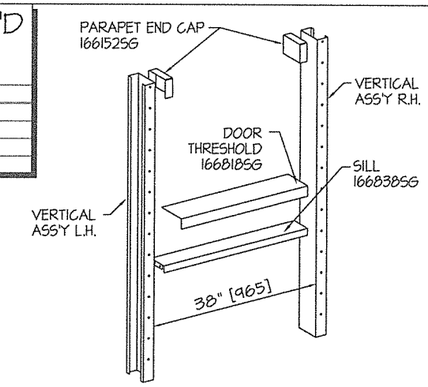
103830FR3 2 REQ'D

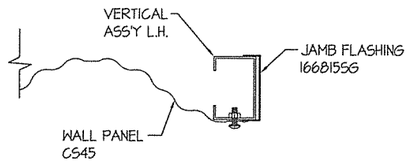
PARAPET OPENING (EXTERIOR)
3'-2" [965]

QTY	PART NO.	DESCRIPTION
1	166818SG	DOOR THRESHOLD
1	166838SG	SILL
2	166815SG	JAMB FLASHING
2	166152SG	PARAPET END CAP



PARAPET SILL SECTION



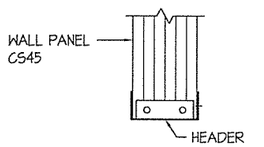


WINDOW VERTICAL SECTION

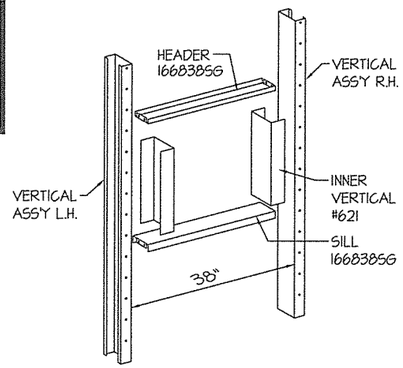
103830FR4 1 REQ'D

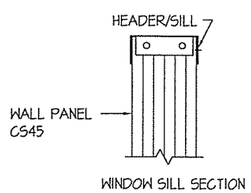
SINGLE WINDOW FRAME
3'-1" x 3'-1" [940 x 940]

QTY	PART NO.	DESCRIPTION
2	166838SG	HEADER/SILL
2	#621	INNER VERTICAL

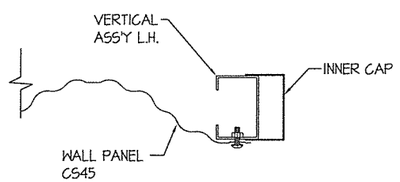


WINDOW HEADER SECTION

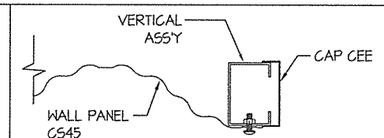




WINDOW SILL SECTION



WINDOW VERTICAL SECTION

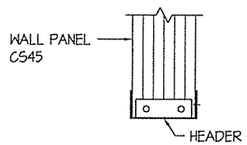


WINDOW VERTICAL SECTION
WHERE CEE IS CAPPED

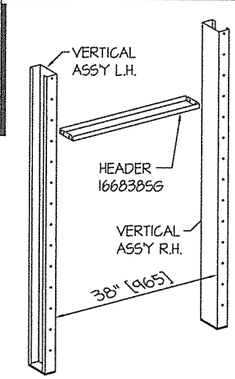
103830FR11 1 REQ'D

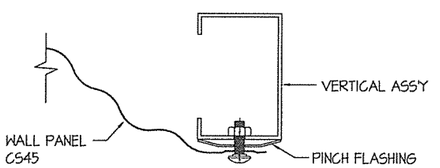
SINGLE WALK DOOR (INTERIOR)
3'-2" x 7'-1" [965 x 2159]

QTY	PART NO.	DESCRIPTION
1	166838SG	HEADER
2	166198RD	PINCH FLASHING



WALK DOOR HEADER SECTION





WALK DOOR VERTICAL SECTION

NOTE: ~ALL VERTICALS SUPPLIED AND REFERENCED ON SHEETS 301 AND 302.
~ALL 166198 PINCH FLASHINGS ARE **DARK RED** TO MATCH WALL PANEL.
~ALL HEADERS, SILLS AND FLASHING FOR EXTERIOR OPENINGS ARE **STONE GREY**.
~ALL HEADERS, SILLS AND FLASHING FOR INTERIOR OPENINGS ARE **STONE GREY**.

REGISTERED PROFESSIONAL ENGINEER
DATE DEC 9/15
T. K. M. Veitch
11007
PROVINCE OF NOVA SCOTIA

THIS PROFESSIONAL ENGINEERING SEAL APPLIES ONLY TO THE DESIGN OF THE PRODUCTS SUPPLIED BY BEHLEN INDUSTRIES LP, IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE OF CANADA.

FOR ASSEMBLY

15'-1" X 18'-6" X 37'-6" [4597x5639x11430] TOWER
15'-1" X 14'-6" X 9'-4 1/4" [4597x4420x2851] ANNEX

FRAMED OPENINGS

LETTER	DESCRIPTION	NAME	DATE
	REVISIONS		
0	REVISED FOR ASSEMBLY	C.G.	DEC 9/15
A	ISSUED FOR CONSTRUCTION	C.G.	NOV 20/15

BUILDING TYPE: FIRETOWER
USE: UTILITY
DRAWN BY: C.G.
CHECKED BY:
HOUSE ORDER: 103830

DEALER: WERNER-HERBISON-PADGETT
OVERLAND PARK, KANSAS, 66214
CUSTOMER: CFB HALIFAX DOCKYARD
HALIFAX, NS
BUILDING NAME: FIRE TRAINING SIMULATOR
BUILDING JOB SITE: HALIFAX, NS

SHEET 601
REV. 0

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927 DOUGLAS STREET, BRANDON, MANITOBA. 204.728.1188
605 SHELDON DRIVE, CAMBRIDGE, ONTARIO. 519.620.6003