



Butler Manufacturing
a division of BlueScope Buildings North America Inc.

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DRAWING RELEASE HISTORY		
TYPE	DATE	DESCRIPTION

GENERAL NOTES

MATERIALS

3 PLATE WELDED SECTIONS
COLD FORMED LIGHT GAGE SHAPES
BRACE RODS
HOT ROLLED MILL SHAPES
HOT ROLLED ANGLES
HOLLOW STRUCTURAL SECTION (HSS)
CLADDING

ASTM DESIGNATION

A529, A572, A1011, A1018
A653, A1011
A572, A510
A36, A529, A572, A588, A992
A529, A572, A588, A992
A500
A653, A792

GRADE 55
GRADE 60
GRADE 50
GRADE 36 OR 50
GRADE 50
GRADE B
GRADE 50 OR GRADE 80

HIGH STRENGTH BOLT TIGHTENING REQUIREMENTS

IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS. SEE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS FOR MORE INFORMATION. SEE ERECTION GUIDE FOR BOLT TIGHTENING INSTRUCTIONS. THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E. -SNUG TIGHT OR PRE-TENSION) UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT.

ALL A490 BOLTS SHALL BE "PRE-TENSIONED". A325 BOLTS IN PRIMARY FRAMING AND BRACING CONNECTIONS MAY BE "SNUG-TIGHT" EXCEPT AS FOLLOWS:

PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS A CRANE GREATER THAN 5 TON CAPACITY.

PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT, OR STRESS REVERSALS ON CONNECTIONS.

PRE-TENSION A325 BOLTS IF LOCATED IN HIGH SEISMIC AREAS. FOR IBC BASED CODES; HIGH SEISMIC IS DESIGN CATEGORY D, E OR F. SEE CODES AND LOADS SECTION BELOW FOR DETAILS.

PRE-TENSION ANY CONNECTION WITH DESIGNATION A325-SC. SLIP CRITICAL (SC) CONNECTIONS MUST BE FREE OF PAINT, OIL OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RUSTED SURFACES ARE ACCEPTABLE.

IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS AND FLANGE BRACES.

SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS ARE ALWAYS "SNUG TIGHT", UNLESS INDICATED OTHERWISE IN ERECTION DRAWING DETAILS.

INSPECTION AND TESTING

SPECIAL INSPECTIONS AND TESTING REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ) DURING CONSTRUCTION AND/OR STEEL FABRICATION IS THE RESPONSIBILITY OF THE OWNER OR OWNERS AUTHORIZED AGENT. WHEN REQUIRED, THE OWNER SHALL EMPLOY A QUALITY ASSURANCE AGENCY (QAA) APPROVED BY THE AHJ. THE BUILDER IS RESPONSIBLE TO COORDINATE WITH THE QAA, THE BNA FABRICATOR AND BNA FABRICATION FACILITIES. THE TYPE AND EXTENT OF SPECIAL INSPECTIONS AND TESTING MUST BE SPECIFICALLY STIPULATED IN CONTRACT DOCUMENTS OR BNA WILL ASSUME SPECIAL INSPECTIONS AND/OR RET TESTING ARE WAIVED AS PERMITTED BY THE BUILDING CODE BASED ON BNA FACILITIES IAS

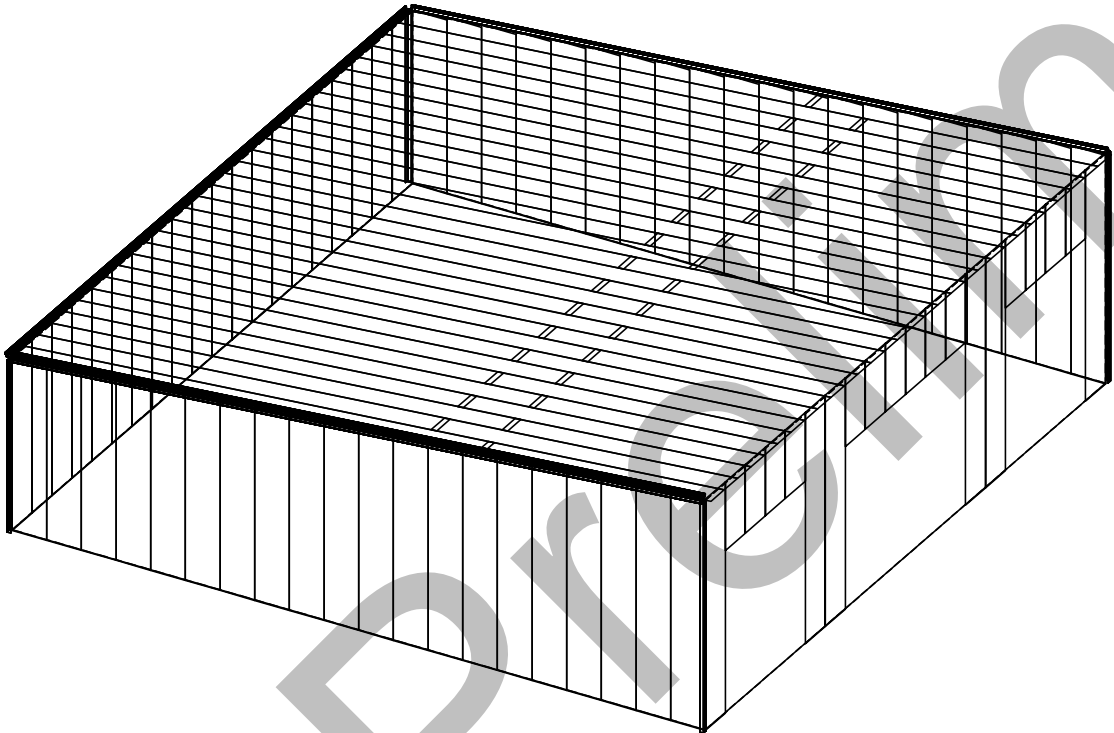
ACI 308.2-1 (Reducible)
Rainfall: 0.10 inches per hour
CONCRETE FOUNDATIONS Compressive Strength (Min.) - f_c: 3000 psi

SNOW LOAD
Ground Snow: 20.00 psf, Flat Roof Snow: 14.00 psf, Design Snow (Sloped): 14.00 psf, Specified Min. Roof Snow: 30.00 psf
Snow Exposure Category (Factor): 2 Partially Exposed (1.00)
Snow Importance: 1.000 Thermal Category (Factor): Heated (1.00)

WIND LOAD
The 'Envelope Procedure' is Used
Wind Speed: Vult: 115.00 (Vasd: 89.08) mph, Wind Exposure: C
Basic Wind Pressure: 24.43 psf
Topographic Factor: 1.0000
Wind Enclosure: Enclosed, 0.180
Note: All windows, doors, skylights and other covered openings must be designed for the specified above wind loads

EARTHQUAKE DESIGN DATA
Lateral Force Resisting Systems using Equivalent Force Procedure
Mapped Spectral Response - S_s:17.00 %g, S₁:6.00 %g
Seismic Design Category: B (See Bolt Tightening Note Above)
Seismic Snow Load: 0.00 psf
Seismic Importance: 1.000
Soil Profile Type: Stiff soil (D)
Design Spectral Response - S_{ds}: 0.1813, S_{d1}: 0.0960

Ordinary Steel Moment Frames
Frame Redundancy Factor:1.00
Framing R-Factor: 3.00, Frame Seismic Factor (Cs): 0.0604, Design Base Shear = 0.0604 W
Ordinary Steel Concentric Braced Frames
Brace Redundancy Factor:1.00
Bracing R-Factor: 3.00, Brace Seismic Factor (Cs): 0.0604, Design Base Shear = 0.0604 W



THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER.

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B

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVER SHEET

BUILDER:	
CUSTOMER:	
LOCATION:	Brighton, Colorado
PROJECT:	18664
BUILDER'S PO#:	



JOB #:	
DATE:	4/20/2018
DRAWN/CHECK:	/
PAGE:	

Codes and Loads

WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS. WIND LOADS ARE APPLIED TO OVERALL BUILDING ENVELOPE. COMMON WALLS BETWEEN CONNECTED SHAPES ARE NOT SUBJECT TO EXTERNAL WIND LOADS.

City: BrightonCounty: AdamsState: ColoradoCountry: United States

Building Code

Building Code: 2012 International Building CodeStructural: 10AISC - ASDRainfall: I: 0.10 inches per hour
Building Risk/Occupancy Category: II (Standard Occupancy Structure)Cold Form: 12AISI - ASDf'c: 3000.00 psi Concrete

Dead and Collateral Loads

Collateral Gravity:3.00 psf
Collateral Uplift: 0.00 psf

Material Dead Weight

Roof Covering + Second. Dead Load: 2.27 psf
Frame Weight (assumed for seismic):2.50 psf

Roof Live Load

Roof Live Load: 20.00 psf Reducible

Wind Load

Wind Speed: Vult: 115.00 (Vasd: 89.08) mph
The 'Envelope Procedure' is Used
Wind Exposure: C - Kz: 0.849
Parts Wind Exposure Factor: 0.849
Wind Enclosure: Enclosed
Topographic Factor: Kzt: 1.0000

Snow Load

Ground Snow Load: pg: 20.00 psf
Flat Roof Snow: pf: 14.00 psf
Design Snow (Sloped): ps: 14.00 psf
Rain Surcharge: 0.00
Specified Minimum Roof Snow: 30.00 psf (USR)
Exposure Factor: 2 Partially Exposed - Ce: 1.00
Snow Importance: Is: 1.000
Thermal Factor: Heated - Ct: 1.00
Ground / Roof Conversion: 0.70

Seismic Load

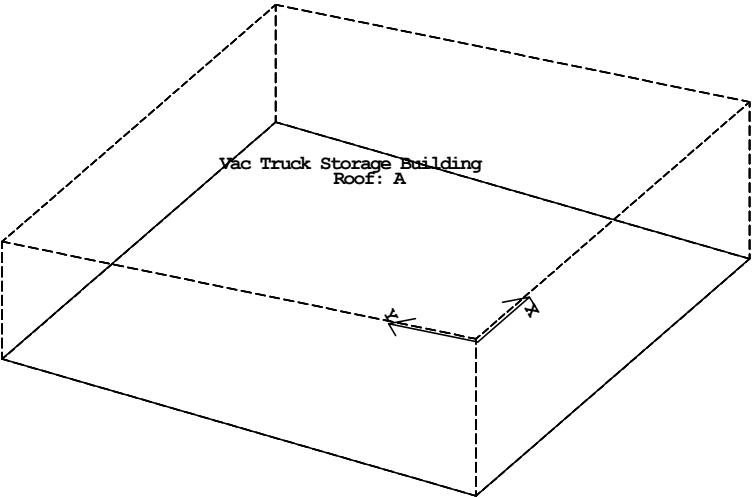
Lateral Force Resisting Systems using Equivalent Force Procedure
Mapped MCE Acceleration: Ss: 17.00 %g
Mapped MCE Acceleration: S1: 6.00 %g
Site Class: Stiff soil (D)
Seismic Importance: Ie: 1.000
Design Acceleration Parameter: Sds: 0.1813
Design Acceleration Parameter: Sd1: 0.0960
Seismic Design Category: B
Seismic Snow Load: 0.00 psf
% Snow Used in Seismic: 0.00
Diaphragm Condition: Flexible
Fundamental Period Height Used: 17/4/8

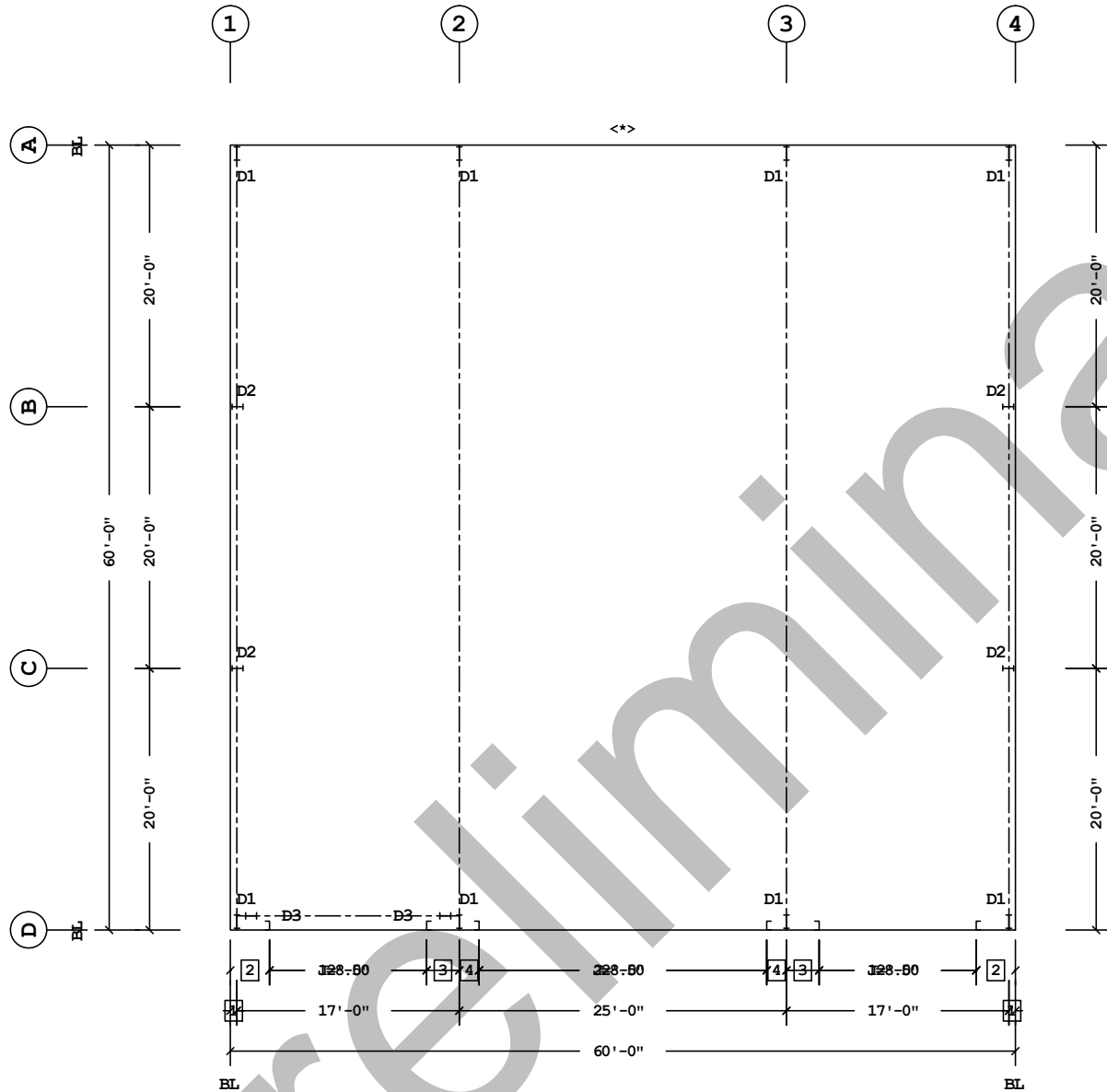
Transverse Direction Parameters

System NOT detailed for Seismic
Redundancy Factor: Rho: 1.00
Fundamental Period: Ta: 0.2749
R-Factor: 3.00
Overstrength Factor: Omega: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.0604 x W

Longitudinal Direction Parameters

System NOT detailed for Seismic
Redundancy Factor: Rho: 1.00
Fundamental Period: Ta: 0.1702
R-Factor: 3.00
Overstrength Factor: Omega: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.0604 x W





ANCHOR ROD PLAN

- 4 1'-6"
3 2'-6"
2 3'-0"
1 6"
☐ Dimension Key

Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

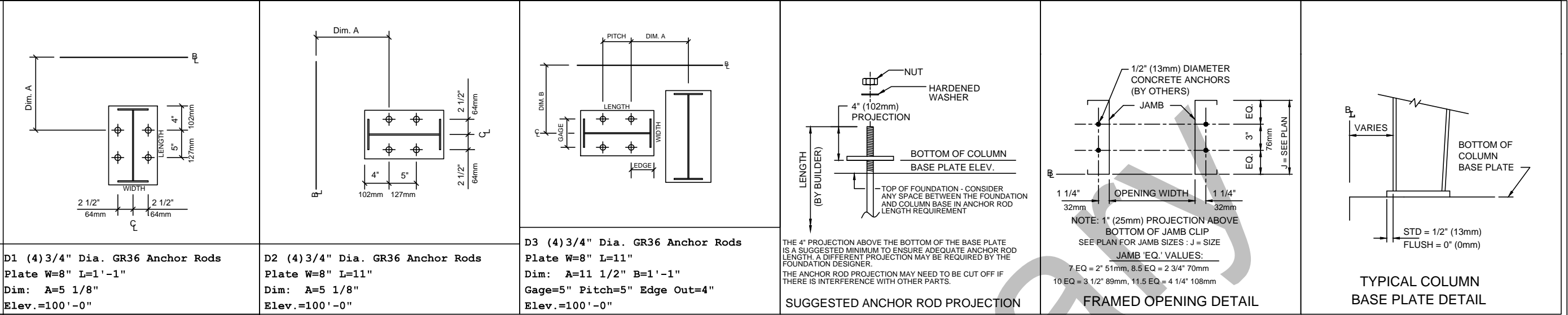
<> THE BUILDING IS DESIGNED WITH BRACING DIAGONALS IN THE DESIGNATED BAYS. COLUMN BASE REACTIONS, BASE PLATES AND ANCHOR RODS ARE AFFECTED BY THIS BRACING AND DIAGONALS MAY NOT BE RELOCATED WITHOUT CONSULTING THE BUILDING SUPPLIERS ENGINEER.

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B BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				ANCHOR ROD PLAN	
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	JOB #:
				CUSTOMER:	DATE: 4/20/2018
				LOCATION: Brighton, Colorado	DRAWN/CHECK: /
				PROJECT: 18664	PAGE:
DRAWING SCALE: NTS				BUILDER'S PO#:	Butler Manufacturing VPC VERSION: ADVNXT 3.2



1. ANCHOR RODS, NUTS, HARDENED WASHERS AND ANY OTHER EMBEDDED ITEMS ARE TO BE FURNISHED BY CONTRACTOR.

2. ANCHOR ROD DIAMETERS WERE DETERMINED BY ALLOWABLE SHEAR AND TENSION PER AISC SPECIFICATIONS (FY=36KSI). (ASTM F1554 GRADE 36) ANCHOR ROD LENGTH, EFFECTS OF EMBEDDED ANCHOR ROD EDGE DIMENSIONS AND METHOD OF TRANSFERRING FORCES FROM ANCHOR RODS TO FOOTINGS ARE TO BE DETERMINED BY OTHERS.

3. UNLESS OTHERWISE SPECIFIED, ANCHOR RODS ARE DESIGNED AND DETAILED AS "CAST-IN-PLACE" ANCHOR RODS WITH "SNUG TIGHT" CONNECTIONS.

4. FOUNDATION MUST BE LEVEL, SQUARE AND SMOOTH. ANCHOR RODS MUST BE ACCURATELY PLACED AS SHOWN ON THIS DRAWING OR STEEL WILL NOT FIT. THE BUILDER IS RESPONSIBLE FOR ACCURATE SETTING OF ANCHOR RODS PER AISC CODE OF STANDARD PRACTICE, SEC 7.5 VARIATIONS ARE SUMMARIZED BELOW;

a. CENTERS OF ANY TWO AR'S WITHIN A COLUMN BASE GROUP; +1/8"


b. CENTERS OF ADJACENT AR GROUPS; +1/4"

c. TOPS OF AR'S; +1/2"

d. ACCUMULATED DIM BETWEEN CENTERS OF AR GROUPS ALONG COLUMN LINE; +1/4" PER 100FT., NOT TO EXCEED 1" TOTAL

e. DIM FROM CENTER OF ANY AR GROUP FROM COLUMN LINE; +1/4"

5. DESIGN LOADS AND REACTIONS ARE FURNISHED IN THE REACTIONS REPORT.

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					REV:	DATE:	BY:	DESCRIPTION:			BUILDER:	CUSTOMER:
												LOCATION: Brighton, Colorado
												PROJECT: 18664
					DRAWING SCALE: NTS						BUILDER'S PO#:	

Bracing Part Schedule			
Part	Qty	Length	Detail
03RS3111	2	31'-11"	BR01G2
04RS3201	2	32'-1"	BR01G2
05RS3202	2	32'-2"	BR01G2

1 6"
Dimension Key

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

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B BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			
REV:	DATE:	BY:	DESCRIPTION:
DRAWING SCALE: NTS			

PRIMARY AND ROOF BRACING PLAN

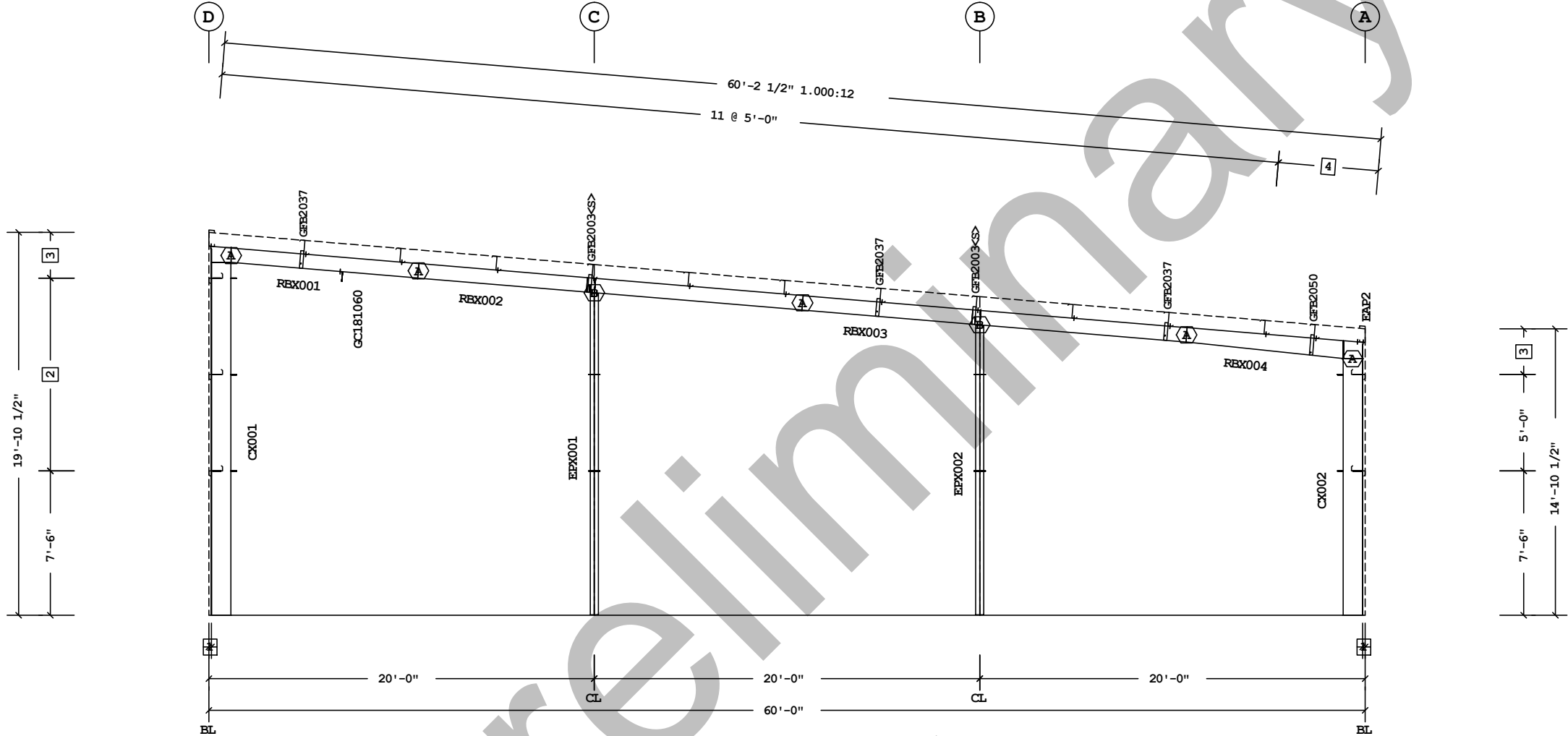
BUILDER:
CUSTOMER:
LOCATION: Brighton, Colorado
PROJECT: 18664
BUILDER'S PO#:



JOB #:
DATE: 4/20/2018
DRAWN/CHECK: /
PAGE:

Frame Member Schedule									
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CX001	1	5.0000	.1345	.1345	1'-0"	1'-0"	19'-1 13/16"	218#	
RBX001	2	5.0000	.1345	.1345	9"	9"	9'-9 3/8"	96#	
RBX002	3	5.0000	.1345	.1345	9"	9"	20'-0"	188#	
RBX003	5	5.0000	.1345	.1345	9"	9"	20'-0"	188#	
	6	5.0000	.1345	.1345	9"	9"			
RBX004	7	5.0000	.1345	.1345	9"	11"	9'-2 15/16"	101#	
CX002	8	5.0000	.1345	.1345	1'-0"	1'-0"	13'-3 13/16"	155#	
EPX001	9	5.0000	.1345	.1345	10"	10"	16'-9 1/8"	95#	BR25A3
EPX002	10	5.0000	.1345	.1345	10"	10"	15'-1 1/8"	88#	BR25A3

Frame Clearances
Horiz. Clearance between members 1(CX001) and 8(CX002): 57'-8 3/4"
Vert. Clearance at member 1(CX001): 18'-3 5/16"
Vert. Clearance at member 8(CX002): 13'-3 13/16"
Vert. Clearance at member 9(EPX001): 16'-8 15/16"
Vert. Clearance at member 10(EPX002): 15'-0 15/16"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 1

Bolt Connection & Plate Schedule								
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	4	A325	3/4"	2 1/2"	3/8"	1	1	0097284
B	4	A325	1/2"	1 1/2"	3/8"	1	1	49080
<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.								

- 4 2 @ 2'-7 1/4"
3 2'-4 1/2"
2 2 @ 5'-0"
1 1 5/8"
☐ Dimension Key


Shape Name = Vac Truck Storage Building Wall 4, Frame 1

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

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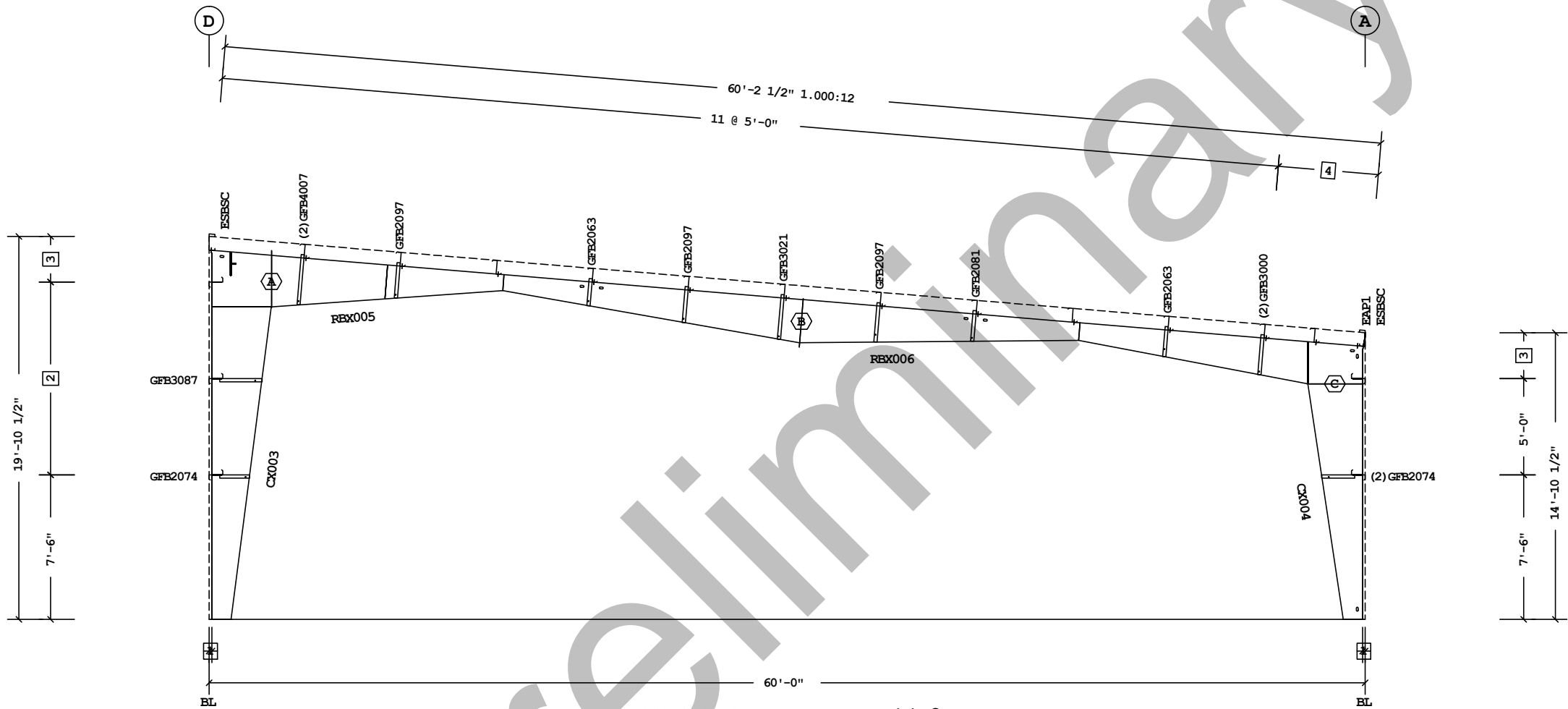
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B		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		Vac Truck Storage Building-Frame at 1	
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	JOB #:
				CUSTOMER:	DATE: 4/20/2018
				LOCATION: Brighton, Colorado	DRAWN/CHECK: /
				PROJECT: 18664	PAGE:
DRAWING SCALE:	NTS		BUILDER'S PO#:	 Butler Manufacturing VPC VERSION: ADVNXT 3.2	

Frame Member Schedule								
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX003	1	5.0000	.3125	.1875	1'-0"	3'-1"	19'-1 13/16"	640#
REX005	2	5.0000	.3750	.1875	2'-8"	10"	27'-8 5/16"	649#
	3	5.0000	.2500	.1644	10"	2'-3"		
REX006	4	5.0000	.3125	.1345	2'-3"	11"	29'-2 15/16"	678#
	5	5.0000	.3125	.1875	11"	2'-2"		
CX004	6	5.0000	.2500	.1875	1'-0"	2'-10"	12'-2 11/16"	320#

Frame Clearances
Horiz. Clearance between members 1(CX003) and 6(CX004): 53'-9 3/4"
Vert. Clearance at member 1(CX003): 16'-2 1/8"
Vert. Clearance at member 6(CX004): 12'-2 11/16"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 2

Bolt Connection & Plate Schedule								
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	10	A325	3/4"	2 1/2"	1/2"	4	1	0097284
B	10	A325	3/4"	2 1/2"	3/8"	1	4	0097284
C	8	A325	3/4"	2 1/2"	1/2"	3	1	0097284

- 4 2 @ 2'-7 1/4"
3 2'-4 1/2"
2 2 @ 5'-0"
1 1 5/8"
☐ Dimension Key

Shape Name = Vac Truck Storage Building Wall 4, Frame 2

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
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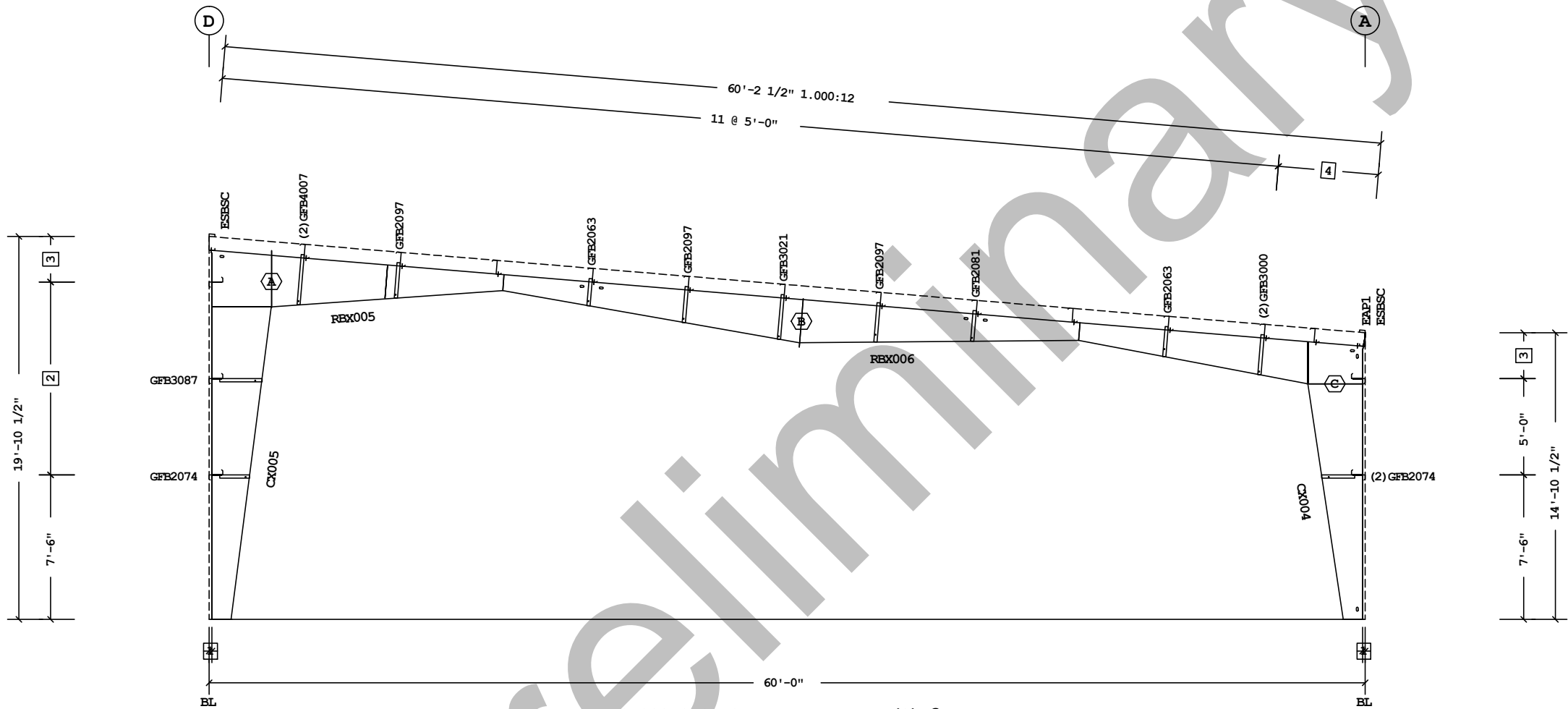
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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				Vac Truck Storage Building-Frame at 2			
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER:			
					CUSTOMER:			
					LOCATION: Brighton, Colorado			
					PROJECT: 18664			
DRAWING SCALE: NTS					BUILDER'S PO#:			
					BUTLER Butler Manufacturing VPC VERSION: ADVNXT 3.2			
					JOB #: DATE: 4/20/2018 DRAWN/CHECK: / PAGE:			

Frame Member Schedule								
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX005	1	5.0000	.3125	.1875	1'-0"	3'-1"	19'-1 13/16"	630#
RBX005	2	5.0000	.3750	.1875	2'-8"	10"	27'-8 5/16"	649#
	3	5.0000	.2500	.1644	10"	2'-3"		
RBX006	4	5.0000	.3125	.1345	2'-3"	11"	29'-2 15/16"	678#
	5	5.0000	.3125	.1875	11"	2'-2"		
CX004	6	5.0000	.2500	.1875	1'-0"	2'-10"	12'-2 11/16"	320#

Frame Clearances
Horiz. Clearance between members 1(CX005) and 6(CX004): 53'-9 3/4"
Vert. Clearance at member 1(CX005): 16'-2 1/8"
Vert. Clearance at member 6(CX004): 12'-2 11/16"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 4 2 @ 2'-7 1/4"
3 2'-4 1/2"
2 2 @ 5'-0"
1 1' @ 5/8"
□ Dimension Key

Bolt Connection & Plate Schedule								
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	10	A325	3/4"	2 1/2"	1/2"	4	1	0097284
B	10	A325	3/4"	2 1/2"	3/8"	1	4	0097284
C	8	A325	3/4"	2 1/2"	1/2"	3	1	0097284

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER.

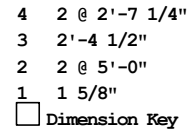
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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			
	REV:	DATE:	BY:	DESCRIPTION:
DRAWING SCALE: NTS				



Frame Clearances
 Horiz. Clearance between members 1(CX006) and 8(CX007): 57'-8 3/4"
 Vert. Clearance at member 1(CX006): 18'-3 5/16"
 Vert. Clearance at member 8(CX007): 13'-3 13/16"
 Vert. Clearance at member 9(EPX003): 16'-8 15/16"
 Vert. Clearance at member 10(EPX004): 15'-0 15/16"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



Bolt Connection & Plate Schedule								
Id	Qty	Grade	Bolt	Bolt	Plate	Rows	Rows	PartNo
			Dia.	Length	Thick.	Out	In	
A	4	A325	3/4"	2 1/2"	3/8"	1	1	0097284
B	4	A325	1/2"	1 1/2"	3/8"	1	1	49080
(S) - (2) Washers (095872) req'd at Flange Brace to Secondary.								


Shape Name = Vac Truck Storage Building Wall 4, Frame 4

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120)
W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS,
SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS,
UNLESS NOTED OTHERWISE.
2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME
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<div style="border: 1px solid black; padding: 5px; text-align: center;"> B </div>	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				Vac Truck Storage Building-Frame at 4			
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER:			JOB #:
					CUSTOMER:			DATE:
					LOCATION: Brighton, Colorado			4/20/2018
					PROJECT: 18664			DRAWN/CHECK:
	DRAWING SCALE: NTS				BUILDER'S PO:	Butler Manufacturing VPC VERSION: ADVNXT 3.2		PAGE: 1

Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX008	1	6.0000	.2500	.1345	10"	10"	18'-8 15/16"	292#
RBX007	2	5.0000	.1345	.1345	9"	9"	13'-11 3/4"	132#
	3	5.0000	.1345	.1345	9"	9"		
CX009	4	6.0000	.2500	.1345	10"	10"	18'-8 15/16"	296#

Frame Clearances

Horiz. Clearance between members 1 (CX008) and 4 (CX009) : 14'-0"

Vert. Clearance at member 1 (CX008) : 17'-11 7/16"

Vert. Clearance at member 4 (CX009) : 17'-11 7/16"

Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

1

2

2

1

18'-8 15/16"

15'-8"

17'-0"

RBX007

CX008

CX009

PORTAL FRAME ELEVATION ALONG D

⬡

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	4	A325	3/4"	2 1/2"	3/8"	1	1	0097284

2

1'-0 1/2"

1

8"

□

Dimension Key

Shape Name = Vac Truck Storage Building Wall 4, Frame 1

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.

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B

BUTLER MANUFACTURING

1540 GENESSEE ST. KANSAS CITY, MO 64102

REV.	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

Vac Truck Storage Building-Portal Frame at D 1-2

BUILDER:

CUSTOMER:

LOCATION: Brighton, Colorado

PROJECT: 18664

BUILDER'S PO#:

BUTLER

Butler Manufacturing

VPC VERSION: ADVNXT 3.2

JOB #:

DATE: 4/20/2018

DRAWN/CHECK: /

PAGE:

VPC FILENAME: adv0841201054

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4/24/2018

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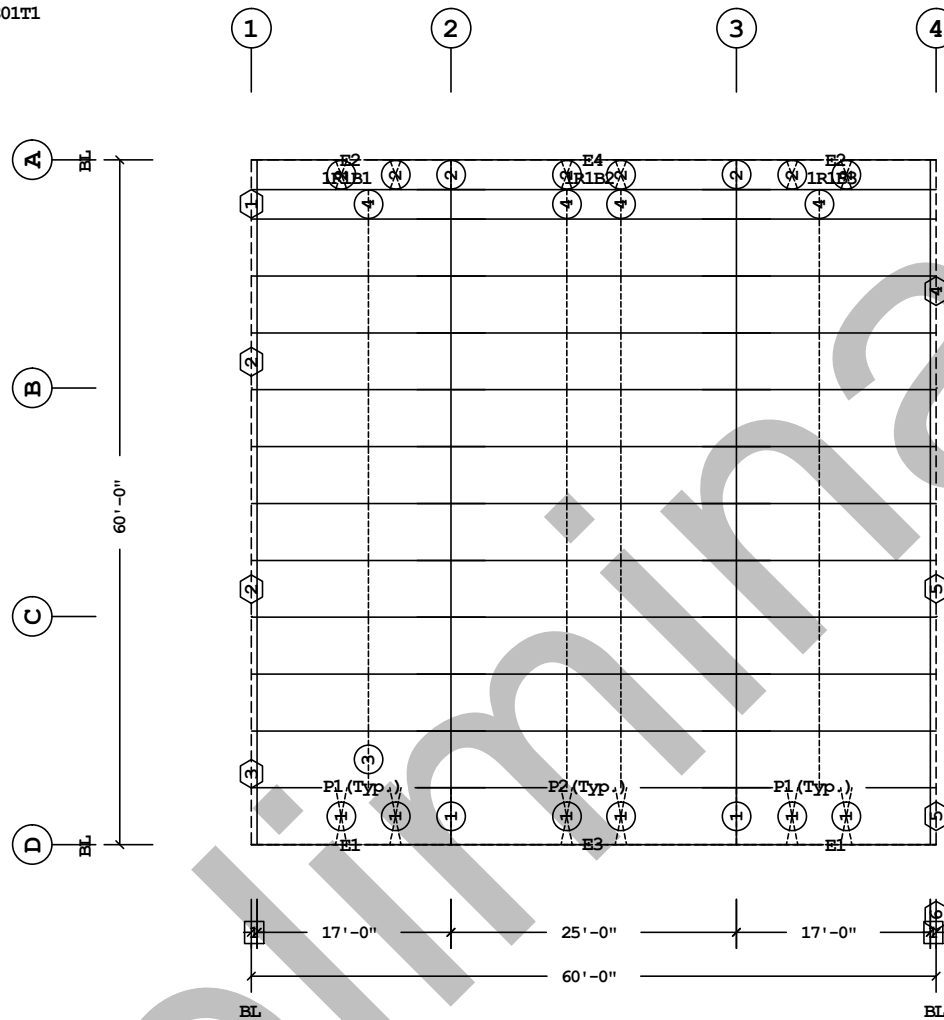
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Secondary Part Schedule					
Mark	Part	Thick.	Depth	Lap	Detail
E1	10H1705414BDB31	0.0790	10"		BR09W2
E2	10E1705417BDB31	0.0600	10"		RS12PF, RS12PE, RS12PJ
E3	10H2411414DDB31	0.0790	10"		BR09W2
E4	10E2411417DDB31	0.0600	10"		RS12PE, RS12PJ
P1	08Z2005416B4A3	0.0680	8 1/2"	2'-10 1/2"	RS02T1, RS01T1
P2	08Z301141644B2	0.0680	8 1/2"	2'-10 1/2"	RS01T1

Secondary Bracing Schedule			
Id	Qty	Mark No	Spacing
1	14	PBA0503	5'-0"
2	14	PBA0211	2'-7 1/4"
3	40	CPBB050108 (Typ.)	5'-0"
4	4	CPBB020812	2'-7 1/4"

See SED:
BR09K5, BR09JG, BR09RY, BR09RZ, BR09PH
BR09JH, BR09K2, BR09JR



ROOF SECONDARY PLAN

Part Mark Key	
1	001SGA07080
2	001SGA19114
3	001SGA12054
4	002SGA07080
5	002SGA19114
6	002SGA12054

1 6"
Dimension Key

Shape Name = Vac Truck Storage Building

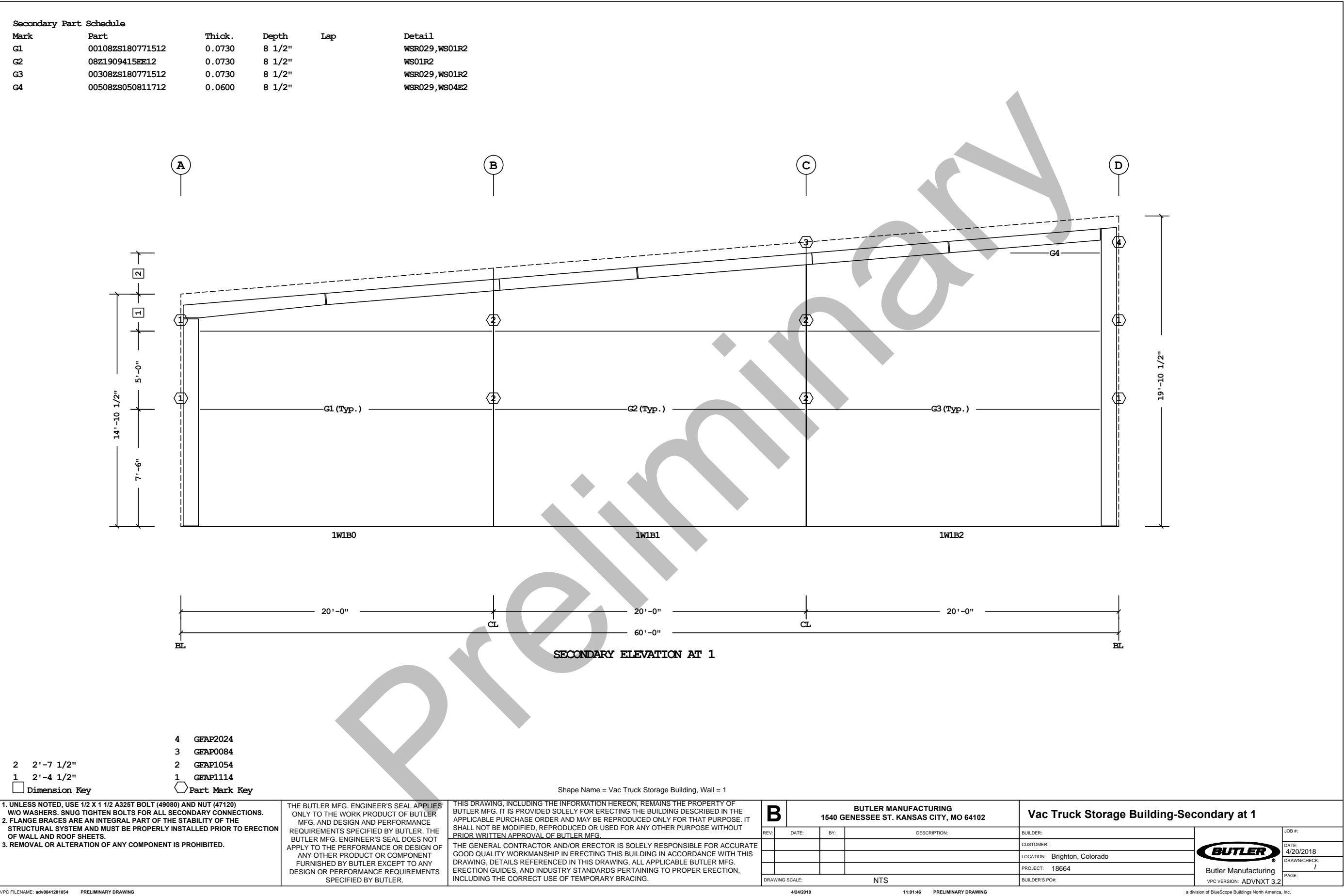
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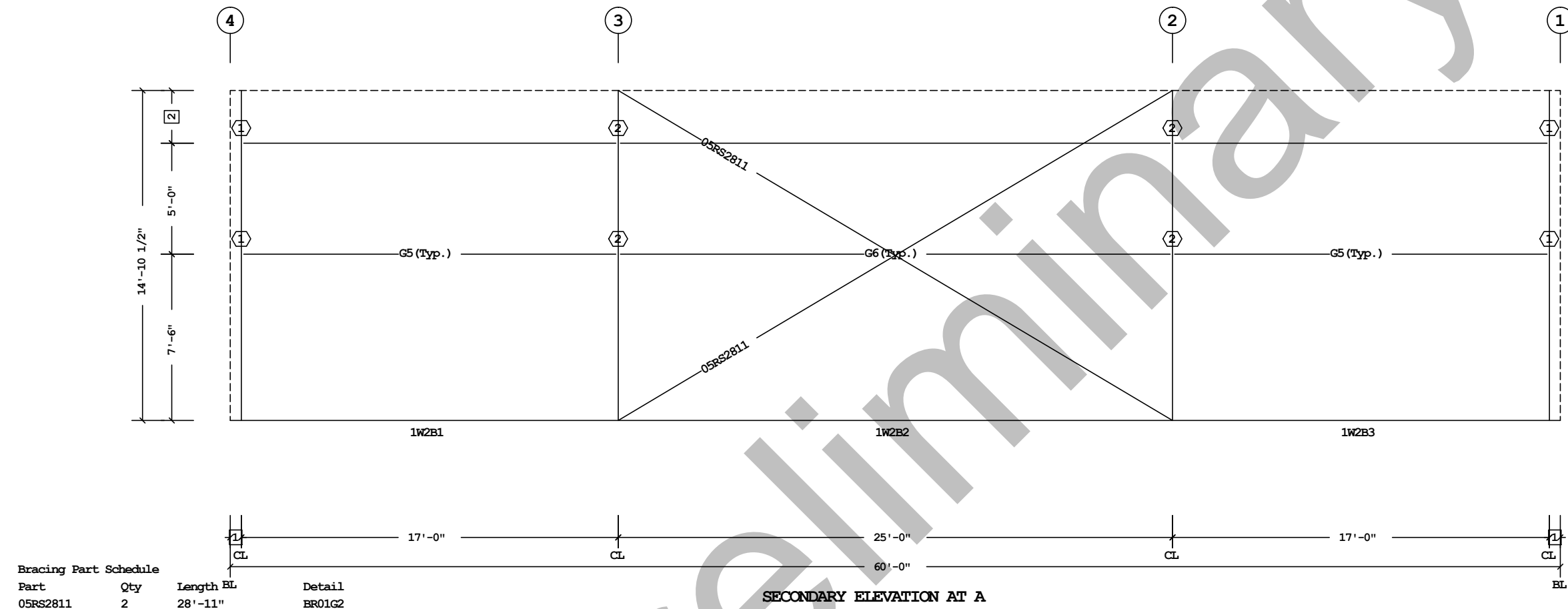
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B BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				ROOF SECONDARY PLAN	
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	JOB #:
				CUSTOMER:	DATE: 4/20/2018
				LOCATION: Brighton, Colorado	DRAWN/CHECK: /
				PROJECT: 18664	PAGE:
				BUILDER'S PO#:	
DRAWING SCALE: NTS				Butler Manufacturing VPC VERSION: ADVNXT 3.2	



Secondary Part Schedule				
Mark	Part	Thick.	Depth	Lap
G5	08Z1609416EE12	0.0680	8 1/2"	WSR029,WS01R2
G6	08Z2409411EE12	0.1130	8 1/2"	WS01R2



2	2'-4 1/2"	3	0543333
1	6"	2	GFAP1054
		1	GFAP1024

Dimension Key

Part Mark Key

Shape Name = Vac Truck Storage Building, Wall = 2

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
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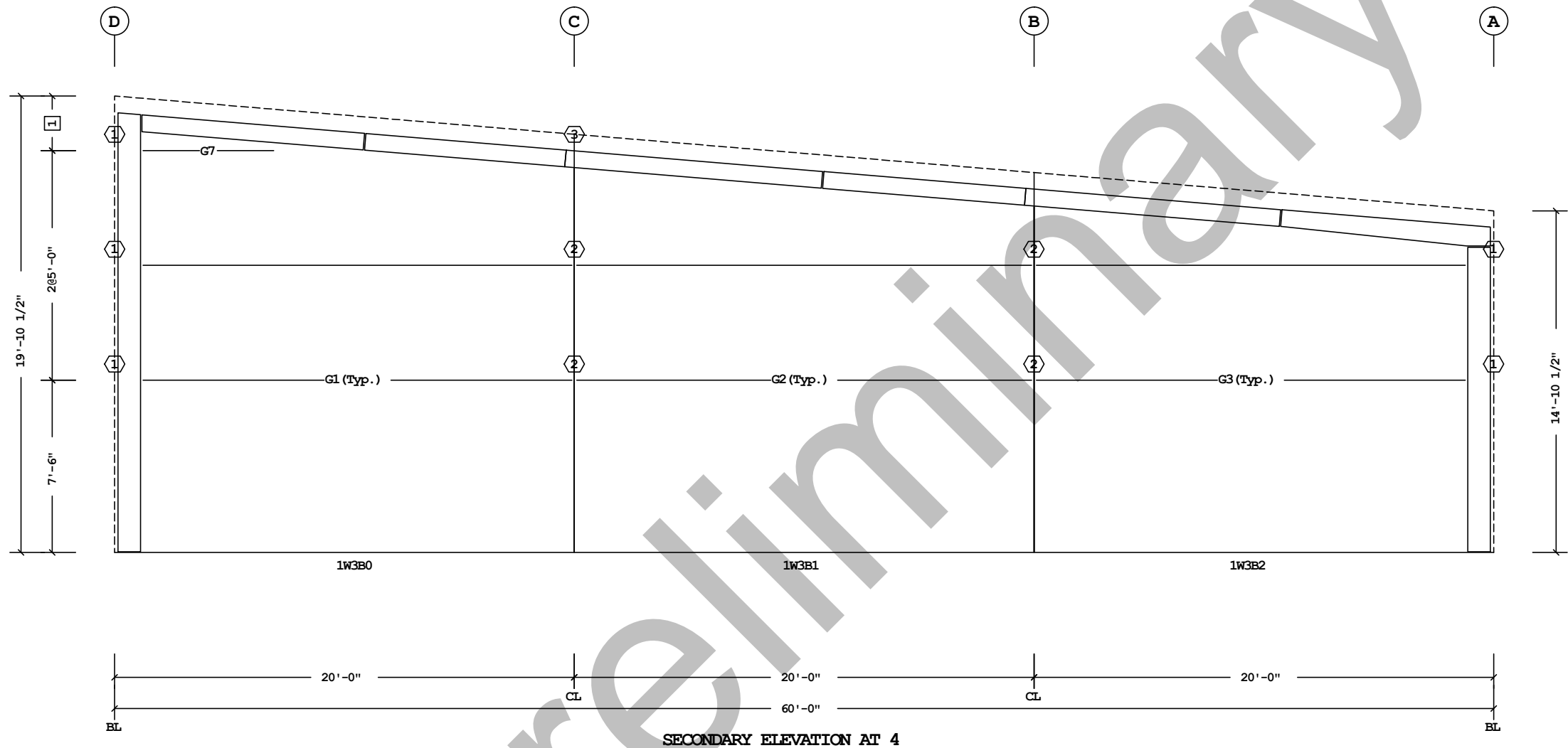
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B				BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		Vac Truck Storage Building-Secondary at A	
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:		JOB #:	
				CUSTOMER:		DATE: 4/20/2018	
				LOCATION: Brighton, Colorado		DRAWN/CHECK: /	
				PROJECT: 18664		PAGE:	
DRAWING SCALE: NTS				BUILDER'S PO#:		Butler Manufacturing VPC VERSION: ADVNXT 3.2	

Secondary Part Schedule					
Mark	Part	Thick.	Depth	Lap	Detail
G1	00108ZS180771512	0.0730	8 1/2"		WSR029, WS01R2
G2	08Z1909415FE12	0.0730	8 1/2"		WS01R2
G3	00308ZS180771512	0.0730	8 1/2"		WSR029, WS01R2
G7	00708ZS050811712	0.0600	8 1/2"		WSR029, WS04E2



- 1 2'-4 1/2"
□ Dimension Key
- 3 GFAP0084
2 GFAP1054
1 GFAP1114
○ Part Mark Key


Shape Name = Vac Truck Storage Building, Wall = 3

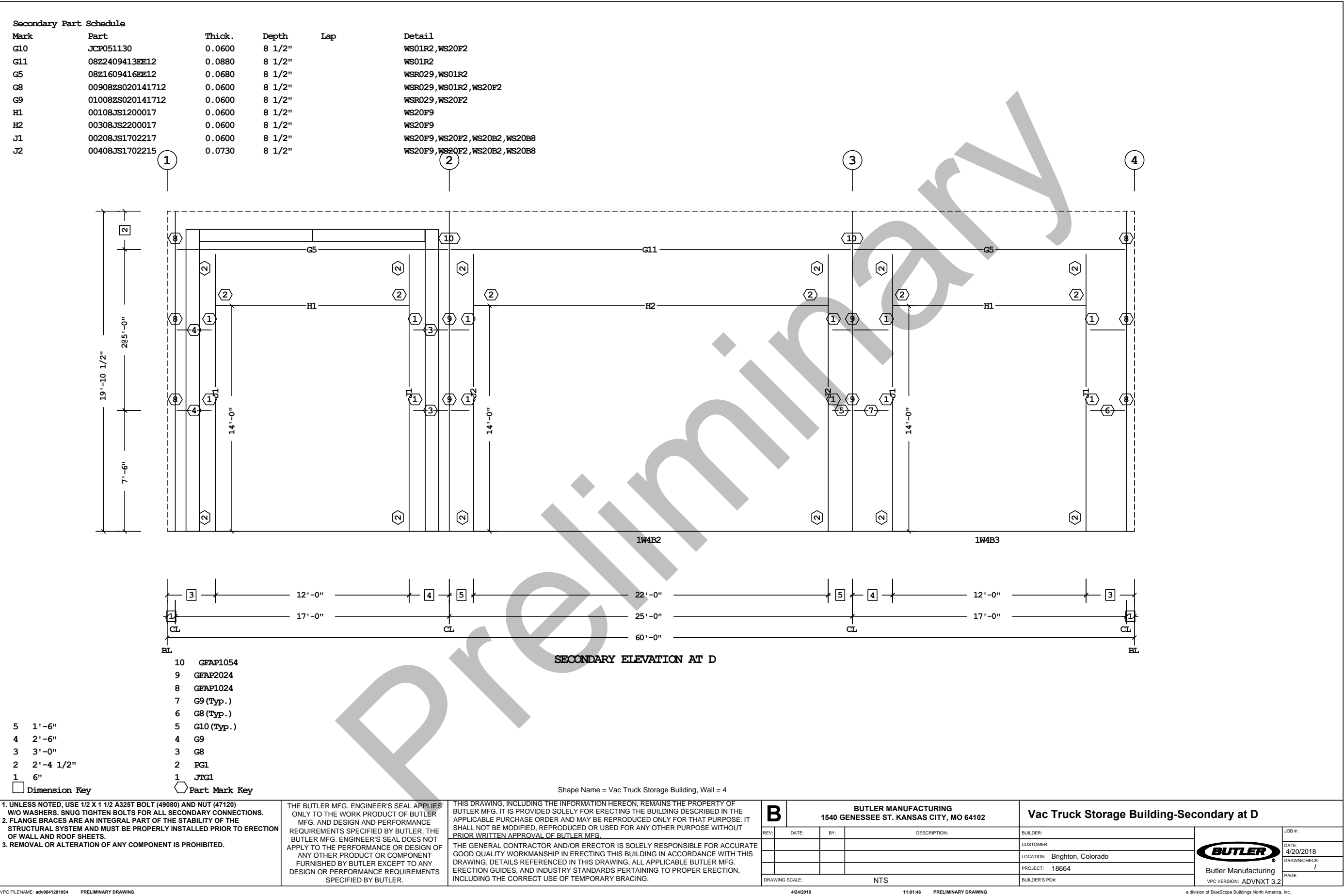
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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			Vac Truck Storage Building-Secondary at 4	
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER:
					CUSTOMER:
					LOCATION: Brighton, Colorado
					PROJECT: 18664
DRAWING SCALE: NTS					BUILDER'S PO#:
					 Butler Manufacturing VPC VERSION: ADVNXT 3.2
					JOB #: DATE: 4/20/2018 DRAWN/CHECK: / PAGE:



Covering Schedule

Id	Qty	Start Length	Qty	Stagger Length	Type	Gage	OP	Fin.	Color
#6	15	36'-2 3/8"	15	41'-2 3/8"	MR24	24	13	K	TD
#7	15	25'-5 5/8"	15	20'-5 5/8"	MR24	24	11	K	TD

Oper. Code:13=SQ,NT
Oper. Code:11=SQ,SQ
Finish:K=Butler-Cote
Color:TD=Standard Color

Insulation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing
BLK1	1	IB	62'-6"		6.00	AV
BLK2	10	IB	62'-6"	62'-6"	6.00	AV
BLK3	1	IB	62'-6"		3.00	UF
BLK4	10	IB	62'-6"	62'-6"	3.00	UF

Starter Width= 3'-0", Interm. Width= 6'-0", End Width= 6'-0"
Location =Outside Secondary Structural
Direction =Across Secondary Structural
Type:IB=Fiberglass Blanket
Facing:AV=VR-R
Facing:UF=Unfaced

Accessory Schedule

Qty	Color	Description
2	Beige	3070 Door - Standard
2		3070 Door - Standard Color
4	Cool Solar White	StripLight Trim Package (Blanket Insulation)
4	Not Applicable	Security Bars 10' Package
4	Not Applicable	Safety Guard 10' Package
4	Not Applicable	Package 10' SunLite*Strip Unit (stand alone)

Trim Schedule

Id	Parts
T1	0630043

Color
Match Wall Color

Details

Planograph Schedule

Id	Details
T1	P-080572,P-081236,P-103223,P-104542,P-104714

1

2

3

4

A

B

C

D

60'-0"

60'-0"

T1

T1

T1

T1

(30) #6

(10) BLK2

(30) #7

Detail

41'-2 3/8"

20'-5 5/8"

25'-5 5/8"

BL

BL

ROOF COVERING PLAN

Dimension Key

Shape Name = Vac Truck Storage Building

1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS

2. STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.

3. DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING. SEE THE COVERING SCHEDULE FOR CUT LENGTHS.

4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

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B

BUTLER MANUFACTURING

1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:

DATE:

BY:

DESCRIPTION:

DRAWING SCALE:

NTS

BUILDER:

CUSTOMER:

LOCATION: Brighton, Colorado

PROJECT: 18664

BUILDER'S PO#:

BUTLER

Butler Manufacturing

VPC VERSION: ADVNXT 3.2

JOB #:

DATE: 4/20/2018

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PAGE:

VPC FILENAME: adv0841201054

PRELIMINARY DRAWING

4/24/2018

11:01:46

PRELIMINARY DRAWING

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Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#1	20	SHP	15'-0 1/4"	26	1	K	TD	3"	Left to Right

Oper. Code:1=SQ,SQ

Finish:K=Butler-Cote

Color:TD=Standard Color

Trim Schedule

Id	Parts
T1	(5)BTID12, (4)BG2215
T2	(2.5)0620163, (2)SHOCT12
T3	(3)0620163, (2)SHOCT12
T4	(5)SHCL12, (5.9)WA10A, (3.0)MRGT20L

Color

Match Wall Color

Match Wall Color

Match Wall Color

Standard Color

Details

ENB006,GV593,GV600,NV115,NV120,NV128,NV130,NV135,NV143,NV664,WCB082,WCB083,WCB084,WCB085,WCB086

NV118,NV119,NV133,NV134

NV118,NV119,NV133,NV134

KV403,KV404,FV167

Insulation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing	Increment
BLK1	1	IB	16'-6"		6.00	AV	
BLK2	10	IB	17'-0"	21'-6"	6.00	AV	6"

Starter Width= 4'-0", Interm. Width= 6'-0", End Width= 6'-0"

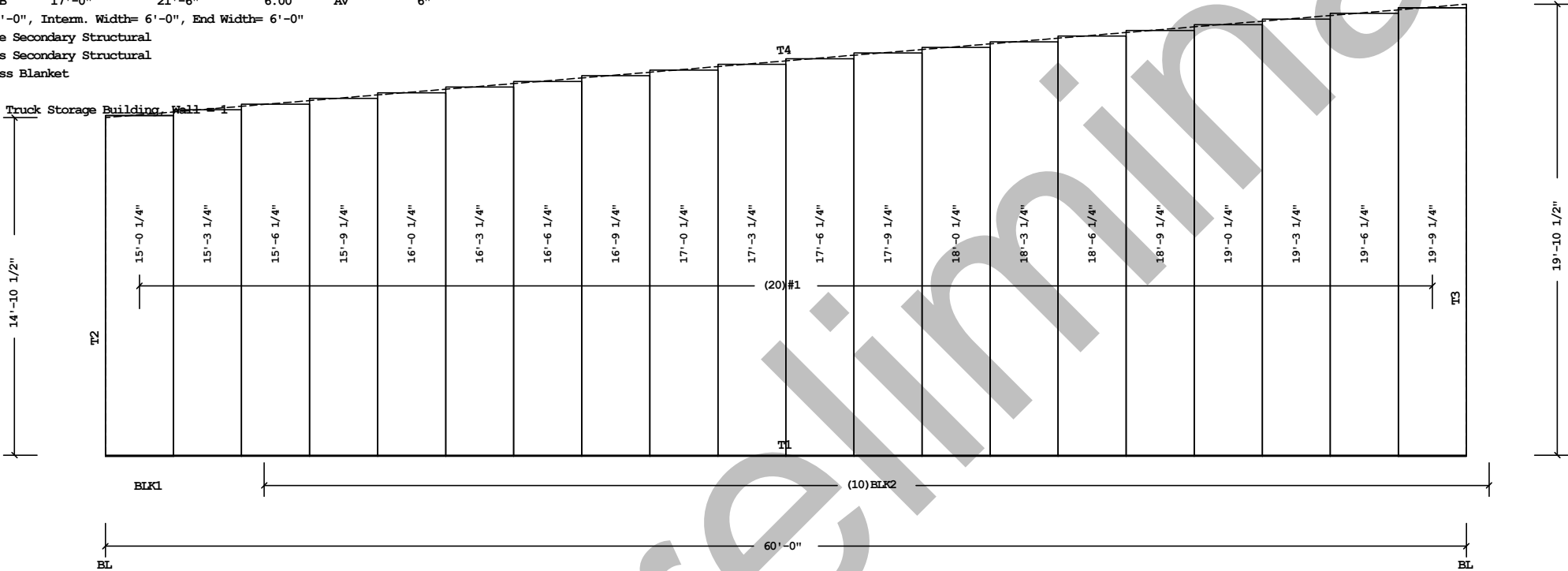
Location =Outside Secondary Structural

Direction =Across Secondary Structural

Type:IB=Fiberglass Blanket

Facing:AV=VR-R

Shape Name = Vac Truck Storage Building, Wall = 1



Fastener Schedule

Part	Description
0097362STD	Scrubolt 11/32 x 1 1/2", T-45 Torx Hd w/Washer
0097364STD	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Planograph Schedule

Id	Details
T1	P-081180,P-081645
T2	P-081180,P-081185
T3	P-081180,P-081185
T4	P-081167,P-081183,P-GAI


Shape Name = Vac Truck Storage Building, Wall = 1

- PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
- STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
- DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
- SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			Vac Truck Storage Building-Covering at 1		
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	
					CUSTOMER:	
					LOCATION: Brighton, Colorado	
					PROJECT: 18664	
DRAWING SCALE: NTS				BUILDER'S PO#:		
					 Butler Manufacturing VPC VERSION: ADVNXT 3.2	JOB #: DATE: 4/20/2018 DRAWN/CHECK: / PAGE:

Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#2	20	SHP	15'-0 1/4"	26	1	K	TD	Left to Right

Oper. Code:1=SQ,SQ

Finish:K=Butler-Cote

Color:TD=Standard Color

Trim Schedule

Id	Parts
T1	(5)BTID12, (4)BG2215
T2	CTB2R,CTB2L
T3	(2.5)0620163, (2)SHOCT12
T4	(5)SHCL12, (2.5)GTR25, (5)CLE12C
T5	0640492, (1.5)CP410, 4CE75

Color

Match Wall Color
Match Wall Color
Match Wall Color
Standard Color
Match Wall Color

Details

ENB006,GV593,GV600,NV115,NV120,NV128,NV130,NV135,NV143,NV664,WCB082,WCB083,WCB084,WCB085,WCB086
ENB006,NV664
NV118,NV119,NV133,NV134
MW252,NV110,NV116,NV131
KV851

Insulation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing	Increment
BLK1	1	IB	16'-0"		6.00	AV	
BLK2	10	IB	16'-0"	16'-0"	6.00	AV	

Starter Width= 4'-0", Interm. Width= 6'-0", End Width= 6'-0"

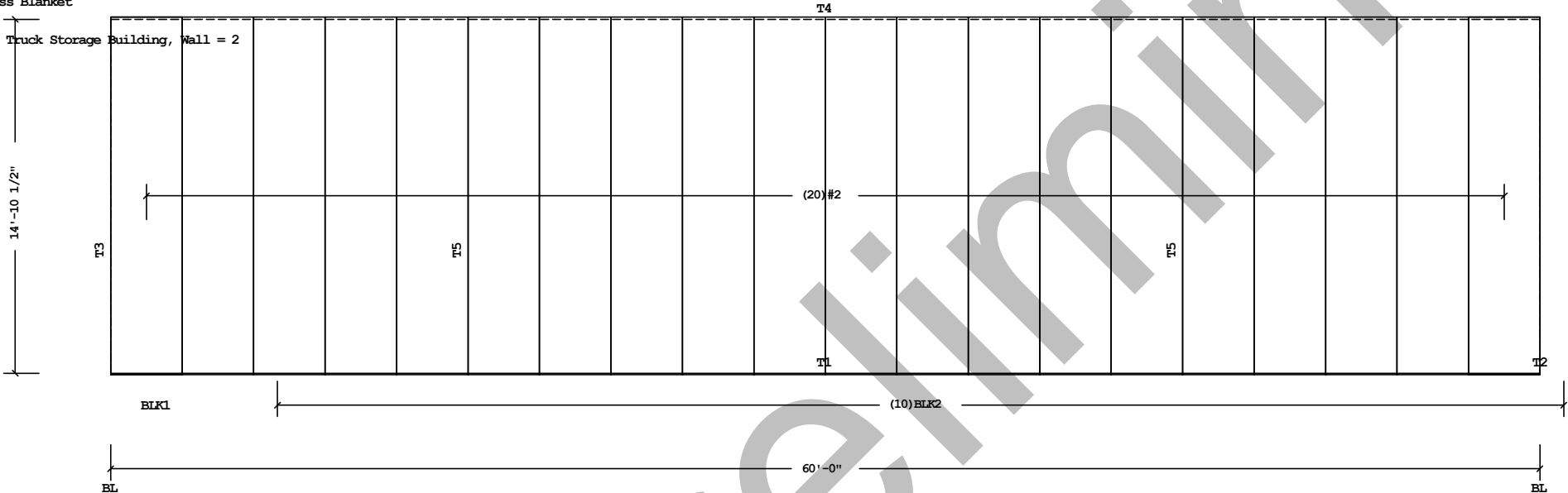
Location =Outside Secondary Structural

Direction =Across Secondary Structural

Type:IB=Fiberglass Blanket

Facing:AV=VR-R

Shape Name = Vac Truck Storage Building, Wall = 2



COVERING ELEVATION AT A

Fastener Schedule

Part	Description
0097362STD	Scrubolt 11/32 x 1 1/2", T-45 Torx Hd w/Washer
0097364STD	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Planograph Schedule

Id	Details
T1	P-081180,P-081645
T2	P-081180,P-081505
T3	P-081180,P-081185
T4	P-081189,P-103223,P-103315,P-104714
T5	P-105224,P-105225,P-105228


Shape Name = Vac Truck Storage Building, Wall = 2

- PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
- STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
- DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
- SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			Vac Truck Storage Building-Covering at A		
	REV.	DATE:	BY:	DESCRIPTION:	BUILDER:	
					CUSTOMER:	
					LOCATION: Brighton, Colorado	
					PROJECT: 18664	
DRAWING SCALE: NTS				BUILDER'S PO#:		
					 Butler Manufacturing VPC VERSION: ADVNXT 3.2	JOB #: DATE: 4/20/2018 DRAWN/CHECK: / PAGE:

Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#3	20	SHP	19'-9 1/4"	26	1	K	TD	-3"	Left to Right

Oper. Code:1=SQ,SQ
Finish:K=Butler-Cote
Color:TD=Standard Color

Trim Schedule

Id	Parts
T1	(5)BTID12, (4)BG2215
T2	CTB2R,CTB2L
T3	(3)0620163, (2)SHOCT12
T4	(5)SHCL12, (5.9)WA10A, (3.0)MRGT20R

Color

Match Wall Color
Match Wall Color
Match Wall Color
Standard Color

Details

ENB006,GV593,GV600,NV115,NV120,NV128,NV130,NV135,NV143,NV664,WCB082,WCB083,WCB084,WCB085,WCB086
ENB006,NV664
NV118,NV119,NV133,NV134
KV403,KV404,PV167

Insulation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing	Increment
BLK1	1	IB	21'-0"		6.00	AV	
BLK2	10	IB	21'-0"	16'-6"	6.00	AV	6"

Starter Width= 4'-0", Intern. Width= 6'-0", End Width= 6'-0"

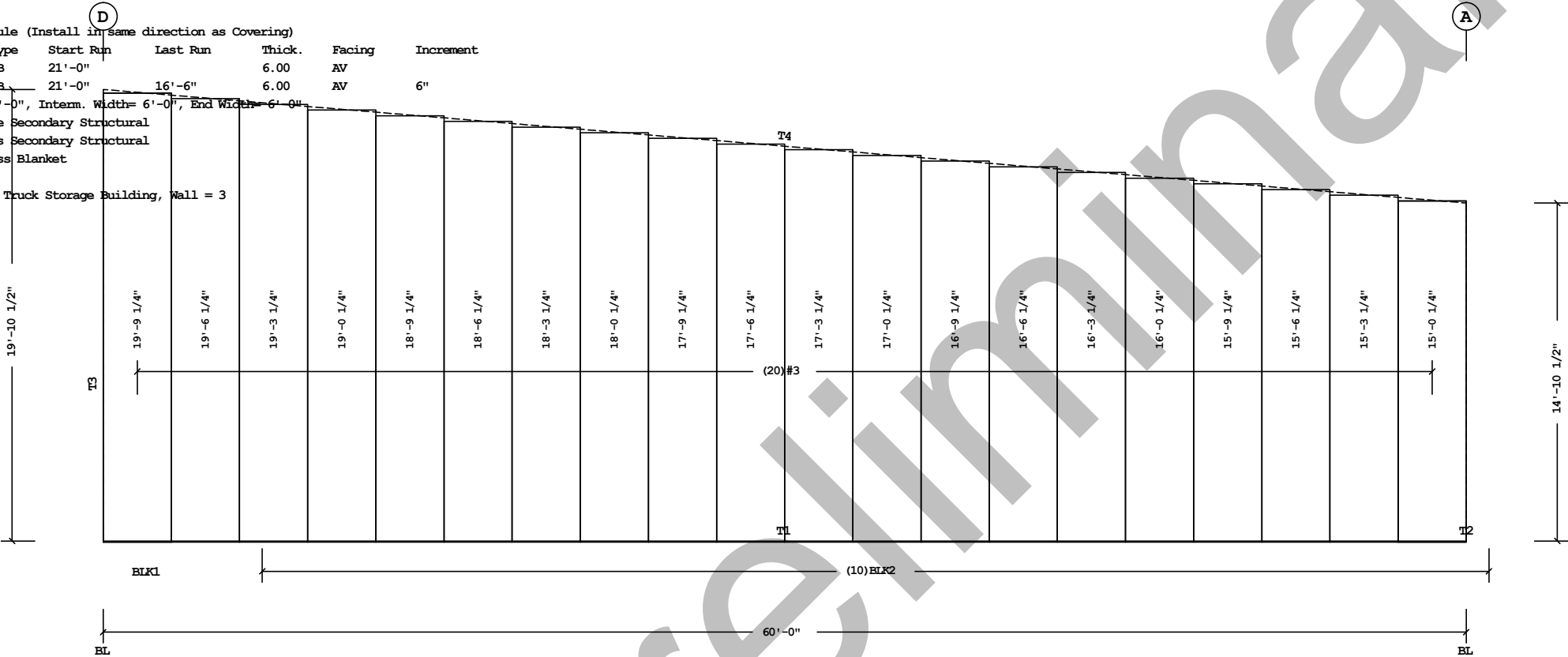
Location =Outside Secondary Structural

Direction =Across Secondary Structural

Type:IB=Fiberglass Blanket

Facing:AV=VR-R

Shape Name = Vac Truck Storage Building, Wall = 3



COVERING ELEVATION AT 4

Fastener Schedule

Part	Description
0097362STD	Scrubolt 11/32 x 1 1/2", T-45 Torx Hd w/Washer
0097364STD	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Planograph Schedule

Id	Details
T1	P-081180,P-081645
T2	P-081180,P-081505
T3	P-081180,P-081185
T4	P-081167,P-081183,P-GAI


Shape Name = Vac Truck Storage Building, Wall = 3

- PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			Vac Truck Storage Building-Covering at 4		
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	
					CUSTOMER:	
					LOCATION: Brighton, Colorado	
					PROJECT: 18664	
DRAWING SCALE: NTS				BUILDER'S PO#:		
					 Butler Manufacturing VPC VERSION: ADVNXT 3.2	JOB #: DATE: 4/20/2018 DRAWN/CHECK: / PAGE:

Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#4	6	SHP	20'-0 1/4"	26	1	K	TD	Left to Right
#5	14	SHP	5'-11 3/8"	26	2	K	TD	Left to Right
Oper. Code:1=SQ,SQ								
Oper. Code:2=SQ,SQ								
Finish:K=Butler-Cote								
Color:TD=Standard Color								

Trim Schedule

Id	Parts
T1	(1.2)OHDTS12
T2	DGS12
T3	(2)DGS12
T4	(0.2)BTD12, (0.2)BG2215
T5	(0.3)BTD12, (0.3)BG2215
T6	CTB2R,CTB2L
T7	(4.8)630595, (5)SHCL12, (2)0630393

Color

Match Wall Color
Match Wall Color
Match Wall Color
Match Wall Color
Match Wall Color
Match Wall Color
Standard Color

Details

WCB033,WCB034,WCB035
NV125,NV140,NV566
NV125,NV140,NV566
ENB006,GV593,GV600,NV115,NV120,NV128,NV130,NV135,NV143,NV664,WCB082,WCB083,WCB084,WCB085,WCB086
ENB006,GV593,GV600,NV115,NV120,NV128,NV130,NV135,NV143,NV664,WCB082,WCB083,WCB084,WCB085,WCB086
ENB006,NV664
ENB004,NV110,NV667,RCB420

Insulation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing	Increment
BLK1	1	IB	20'-0"		6.00	AV	
BLK2	1	IB	6'-0"		6.00	AV	
BLK3	2	IB	20'-0"	120'-0"	6.00	AV	
BLK4	3	IB	6'-0"	6'-0"	6.00	AV	
BLK5	1	IB	20'-0"		6.00	AV	
BLK6	1	IB	6'-0"		6.00	AV	
BLK7	2	IB	20'-0"	20'-0"	6.00	AV	

Starter Width= 4'-0", Interm. Width= 6'-0", End Width= 6'-0"

Location =Outside Secondary Structural

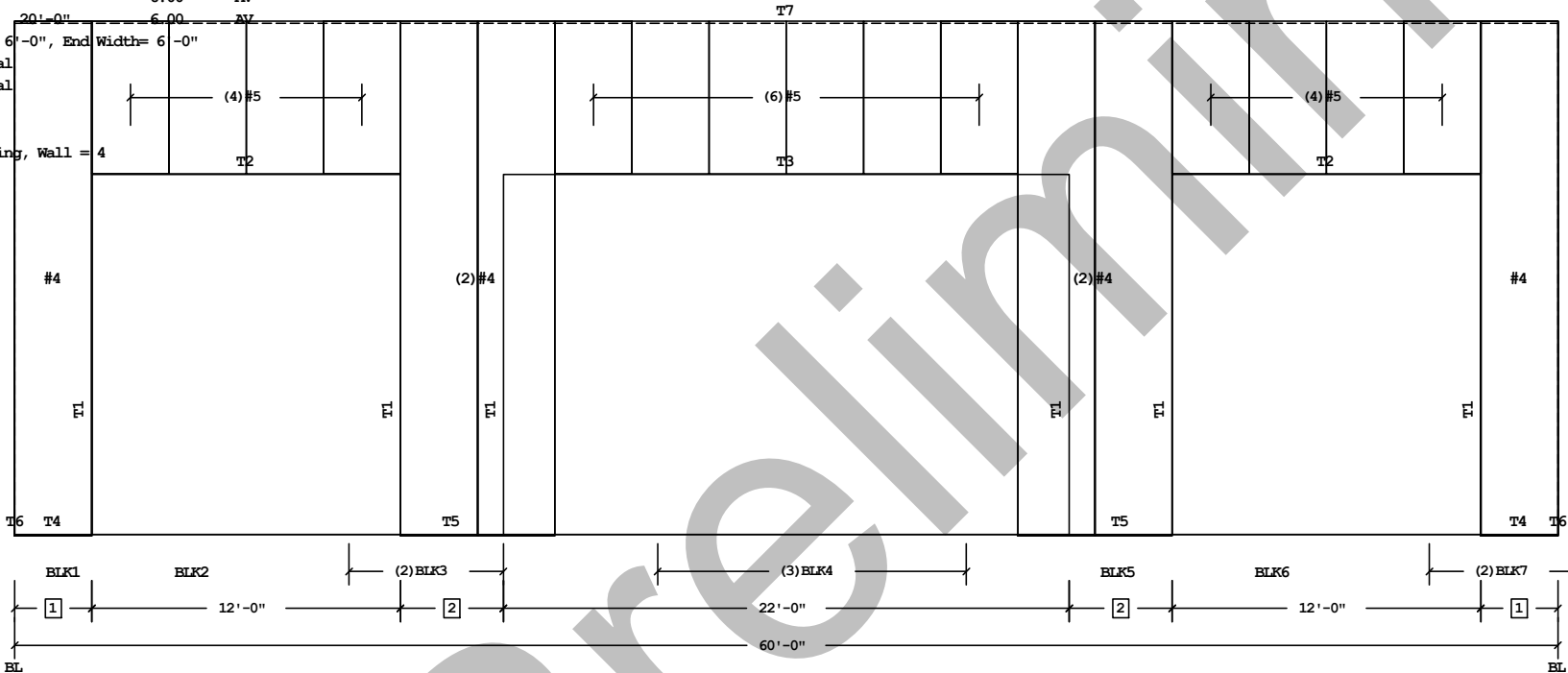
Direction =Across Secondary Structural

Type:IB=Fiberglass Blanket

Facing:AV=VR-R

Shape Name = Vac Truck Storage Building, Wall = 4

2	4'-0"
1	3'-0"
Dimension Key	



Fastener Schedule

Part	Description
0097362STD	Scrubolt 11/32 x 1 1/2", T-45 Torx Hd w/Washer
0097364STD	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Planograph Schedule

Id	Details
T1	P-081201,P-090120
T2	P-081202
T3	P-081202
T4	P-081180,P-081645
T5	P-081180,P-081645
T6	P-081180,P-081505
T7	P-080789,P-081239

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B

BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			
REV.	DATE:	BY:	DESCRIPTION:
DRAWING SCALE: NTS			

Vac Truck Storage Building-Covering at D			
BUILDER:			
CUSTOMER:			
LOCATION: Brighton, Colorado			
PROJECT: 18664			
BUILDER'S PO#:			



Butler Manufacturing
VPC VERSION: ADVNXT 3.2

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DATE: 4/20/2018
DRAWN/CHECK: J
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