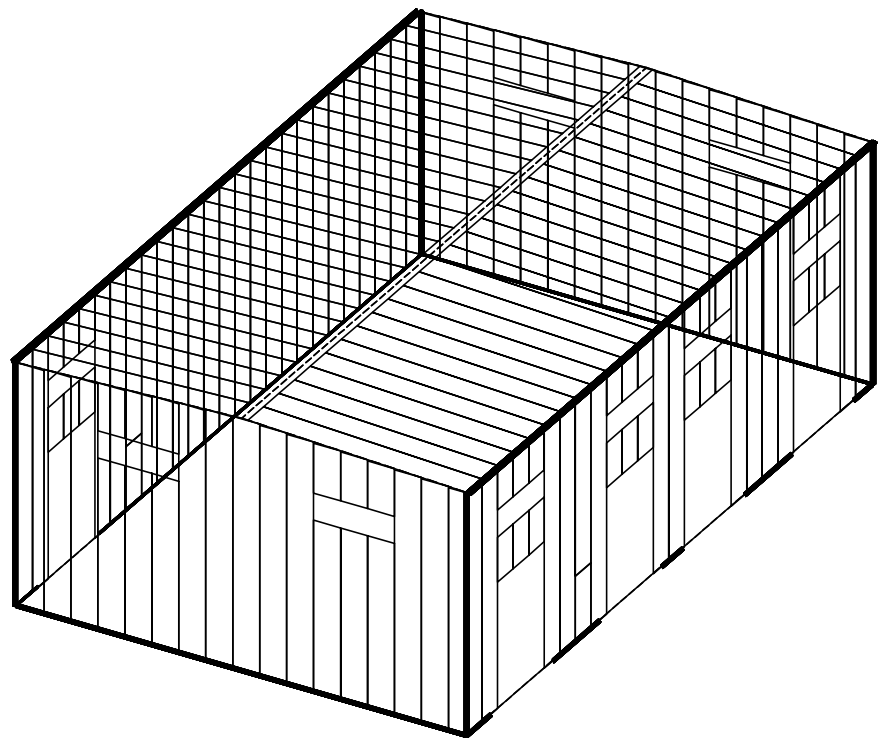




Butler Manufacturing
a division of BlueScope Buildings North America Inc.

DRAWING INDEX	
DRAWING TITLE	PAGES
COVER SHEET	
CODES AND LOADS	
NOTES	
ANCHOR ROD PLAN	
PRIMARY STRUCTURAL	
SECONDARY STRUCTURAL	
COVERING	
SPECIAL DRAWINGS	
STANDARD ERECTION DETAILS	
PLANOGRAPH DETAILS	

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 BETWEEN THE QAA AND BBNA FABRICATION FACILITIES. THE TYPE AND EXTENT OF SPECIAL INSPECTIONS AND TESTING MUST BE SPECIFICALLY STIPULATED IN CONTRACT DOCUMENTS OR BBNA WILL ASSUME SPECIAL INSPECTIONS AND TESTING ARE WAIVED AS PERMITTED BY THE BUILDING CODE BASED ON BBNA FACILITIES IAS ACCREDITATION.

Roof Live Load 20.89 psf (Not Reducible)
Rainfall: 0.10 inches per hour
CONCRETE FOUNDATIONS Compressive Strength (Min.) - Fc: 3000 psi

SNOW LOAD
Ground Snow: 50.14 psf, Flat Roof Snow: 40.11 psf, Rain Surcharge: 9.00 psf, Design Snow (Sloped): 49.11 psf
Snow Exposure Category (Factor): 1 (1.00)
Snow Importance: 1.000

WIND LOAD
Wind Force: 8.77 psf, Wind Exposure: Open Terrain
Basic Wind Pressure: 8.43 psf
Wind Importance Factor: 1.000,
Wind Enclosure: 2
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
Sa(0.2): 0.64, Sa(0.5): 0.31, Sa(1.0): 0.14, Sa(2.0): 0.05, Sa(2.0): 0.00, Sa(2.0): 0.00
Seismic Snow Load: 12.28 psf
Seismic Importance: 1.000
Soil Profile Type: Stiff soil (D)

Conventional Steel Moment Frames
Framing R-Factor: 1.95, Frame Seismic Factor (Cs): 0.2503, Design Base Shear = 0.2503 W
Conventional Steel Concentric Braced Frames
Bracing R-Factor: 1.95, Brace Seismic Factor (Cs): 0.2503, Design Base Shear = 0.2503 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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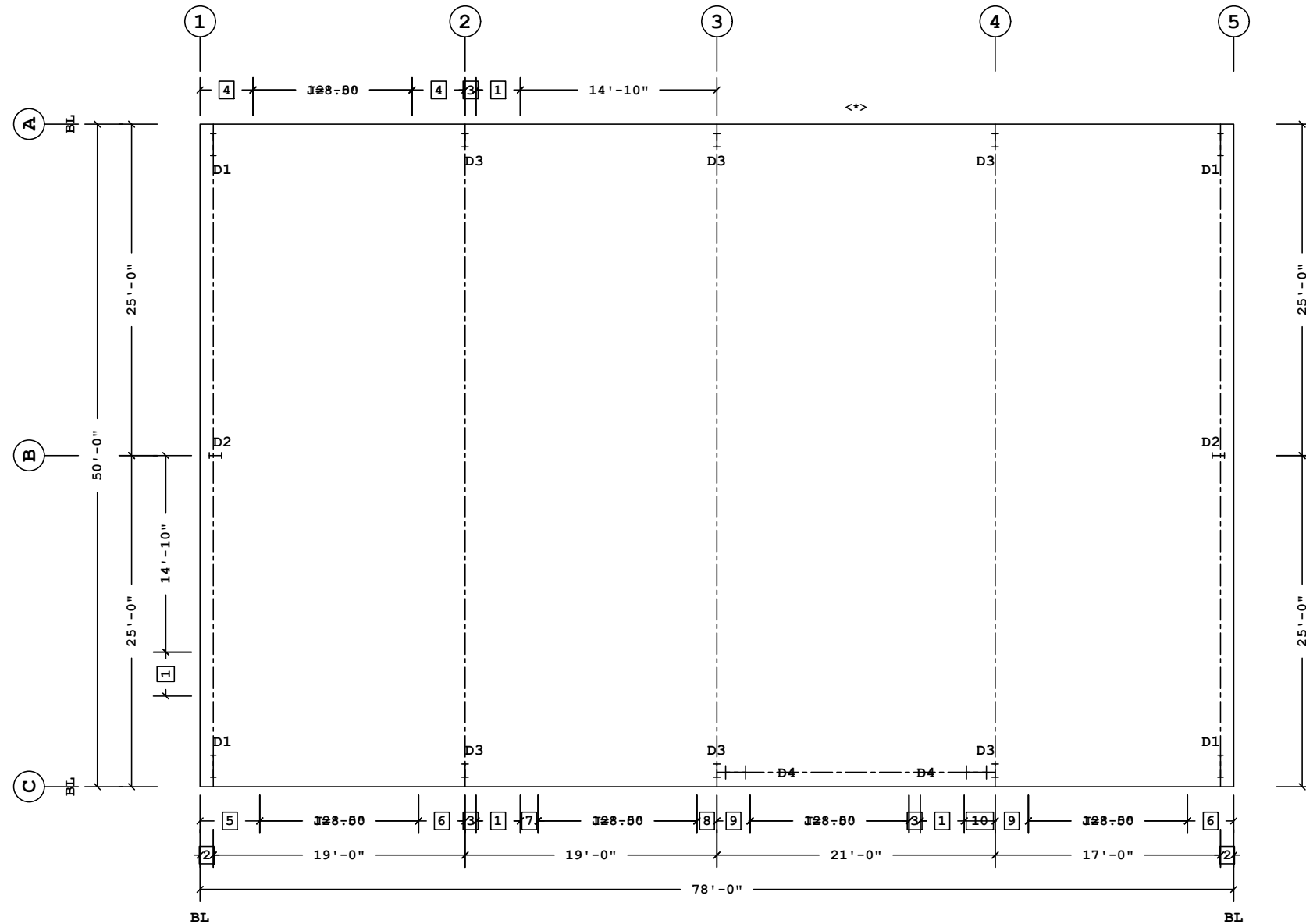
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

B BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVER SHEET

BUILDER: BBS Construction (Ontario) Ltd.	JOB #:
CUSTOMER:	DATE: 1/15/2020
LOCATION: Ottawa, Ontario	DRAWN/CHECK: /
PROJECT: HERITAGE GRADE RESTORATION BLDG	PAGE:
BUILDER'S PO#:	

Butler Manufacturing
VPC VERSION: ADVNXT 3.7



- 10 2'-4"
- 9 2'-6"
- 8 1'-6"
- 7 1'-4"
- 6 3'-6"
- 5 4'-6"
- 4 4'-0"
- 3 10"
- 2 1'-0"
- 1 3'-4" J=8.50

□ Dimension Key

ANCHOR ROD PLAN

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

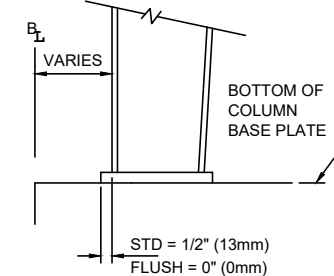
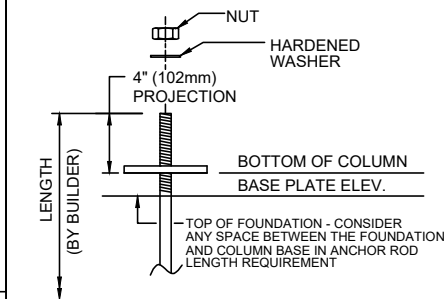
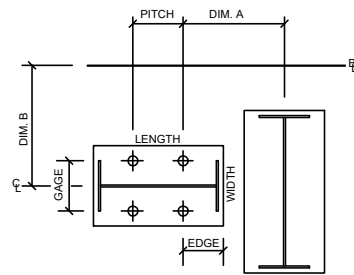
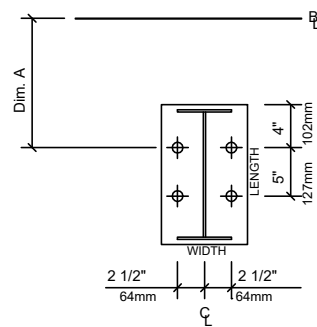
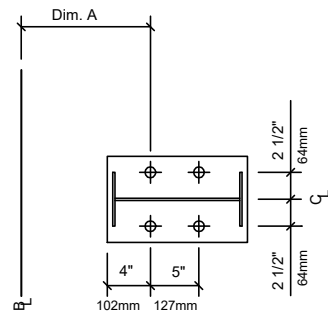
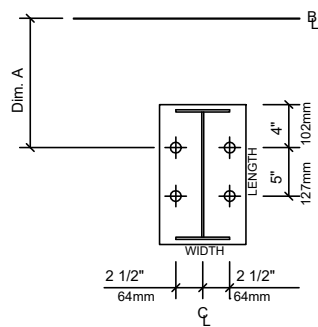
↳ THE BUILDING IS DESIGNED WITH BRACING DIAGONALS IN THE DESIGNATED BAYS. COLUMN BASE REACTIONS, BASE PLATES AND ANCHOR RODS ARE AFFECTED BY THIS BRACING AND DIAGONALS MAY NOT BE RELOCATED WITHOUT CONSULTING THE BUILDING SUPPLIERS ENGINEER.

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B		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		ANCHOR ROD PLAN	
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	BBS Construction (Ontario) Ltd.
				CUSTOMER:	
				LOCATION:	Ottawa, Ontario
				PROJECT:	HERITAGE GRADE RESTORATION BLDG
				BUILDER'S PO#:	
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D1 (4) 3/4" Dia. GR36 Anchor Rods
 Plate W=8" L=1'-9"
 Dim: A=1'-0"
 Elev.=100'-0"

D2 (4) 3/4" Dia. GR36 Anchor Rods
 Plate W=8" L=1'-0"
 Dim: A=1'-0"
 Elev.=100'-0"

D3 (4) 3/4" Dia. GR36 Anchor Rods
 Plate W=8" L=1'-1"
 Dim: A=1'-0"
 Elev.=100'-0"

D4 (4) 3/4" Dia. GR36 Anchor Rods
 Plate W=1'-1" L=1'-7"
 Dim: A=11 1/2" B=1'-1"
 Gage=5" Pitch=5" Edge Out=4"
 Elev.=100'-0"

THE 4" PROJECTION ABOVE THE BOTTOM OF THE BASE PLATE IS A SUGGESTED MINIMUM TO ENSURE ADEQUATE ANCHOR ROD LENGTH. A DIFFERENT PROJECTION MAY BE REQUIRED BY THE FOUNDATION DESIGNER.
 THE ANCHOR ROD PROJECTION MAY NEED TO BE CUT OFF IF THERE IS INTERFERENCE WITH OTHER PARTS.
SUGGESTED ANCHOR ROD PROJECTION

TYPICAL COLUMN BASE PLATE DETAIL

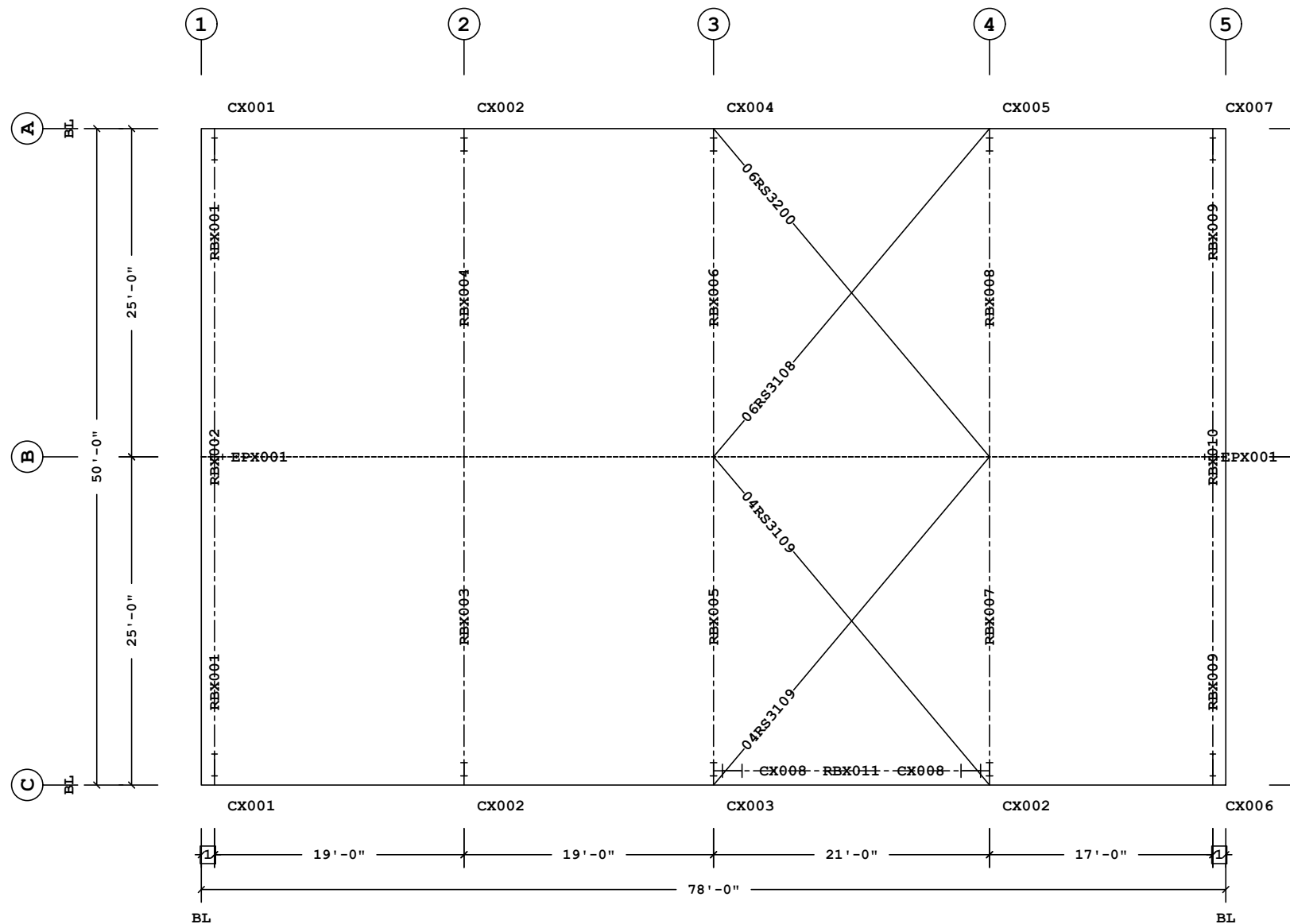
- ANCHOR RODS, NUTS, HARDENED WASHERS AND ANY OTHER EMBEDDED ITEMS ARE TO BE FURNISHED BY CONTRACTOR.
- ANCHOR ROD DIAMETERS WERE DETERMINED BY ALLOWABLE SHEAR AND TENSION PER AISC SPECIFICATIONS (FY=36KSI). (ASTM F1554 GRADE 36) ANCHOR ROD LENGTH, EFFECTS OF EMBEDDED ANCHOR ROD EDGE DIMENSIONS AND METHOD OF TRANSFERRING FORCES FROM ANCHOR RODS TO FOOTINGS ARE TO BE DETERMINED BY OTHERS.
- UNLESS OTHERWISE SPECIFIED, ANCHOR RODS ARE DESIGNED AND DETAILED AS "CAST-IN-PLACE" ANCHOR RODS WITH "SNUG TIGHT" CONNECTIONS.
- 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:
 - CENTERS OF ANY TWO AR'S WITHIN A COLUMN BASE GROUP: +-1/8"
 - CENTERS OF ADJACENT AR GROUPS: +-1/4"
 - TOPS OF AR'S: +-1/2"
 - ACCUMULATED DIM BETWEEN CENTERS OF AR GROUPS ALONG COLUMN LINE; +-1/4" PER 100FT., NOT TO EXCEED 1" TOTAL.
 - DIM FROM CENTER OF ANY AR GROUP FROM COLUMN LINE: +-1/4"
- DESIGN LOADS AND REACTIONS ARE FURNISHED IN THE REACTIONS REPORT.

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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			ANCHOR ROD PLAN - DETAILS	
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: BBS Construction (Ontario) Ltd.
					CUSTOMER:
					LOCATION: Ottawa, Ontario
					PROJECT: HERITAGE GRADE RESTORATION BLDG
					BUILDER'S PO#:
DRAWING SCALE: NTS				JOB #:	
				DATE: 1/15/2020	
				DRAWN/CHECK: /	
				PAGE:	
				BUTLER Butler Manufacturing VPC VERSION: ADVNXT 3.7	



Bracing Part Schedule

Part	Qty	Length	Detail
04RS3109	2	31'-9"	BR01G2
06RS3200	1	32'-0"	BR01G2
06RS3108	1	31'-8"	BR01G2

PRIMARY AND ROOF BRACING PLAN

1 1'-0"
 □ Dimension Key

Shape Name = DYMECH

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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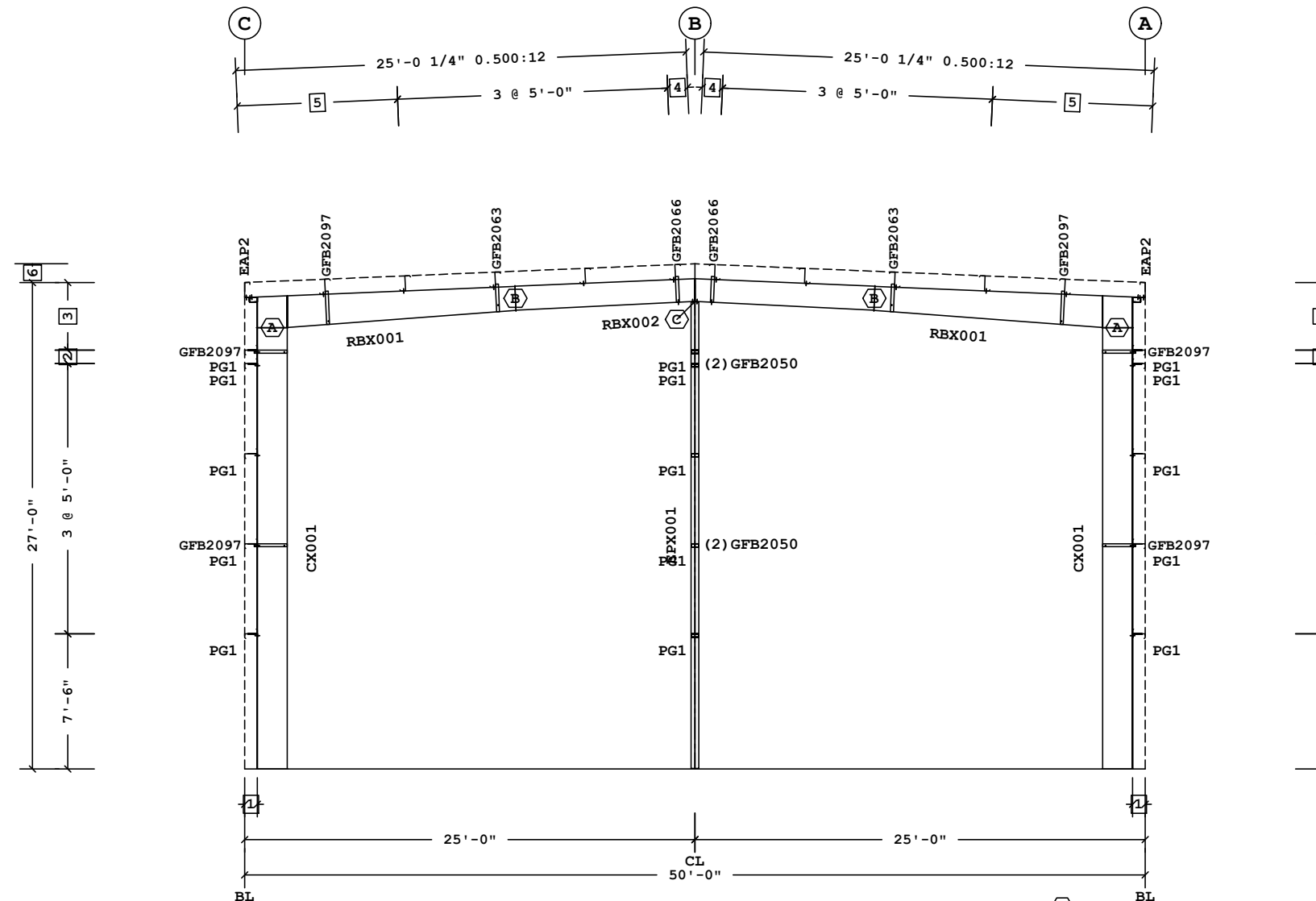
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B	BUTLER MANUFACTURING		PRIMARY AND ROOF BRACING PLAN	
	1540 GENESSEE ST. KANSAS CITY, MO 64102			
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: BBS Construction (Ontario) Ltd.
				CUSTOMER:
				LOCATION: Ottawa, Ontario
				PROJECT: HERITAGE GRADE RESTORATION BLDG
				BUILDER'S PO#:
DRAWING SCALE: NTS				JOB #:
				DATE: 1/15/2020
				DRAWN/CHECK: /
				PAGE:
				Butler Manufacturing VPC VERSION: ADVNXT 3.7

Frame Member Schedule								
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx. Lgth	Approx. Weight
CX001	1	5.0000	.1875	.1345	1'-8"	1'-8"	24'-6"	407#
RBX001	2	5.0000	.1875	.1345	1'-9"	1'-4"	15'-0"	248#
RBX002	3	5.0000	.1875	.1345	1'-4"	1'-3"	20'-0"	292#
	4	5.0000	.1875	.1345	1'-3"	1'-4"		
RBX001	5	5.0000	.1875	.1345	1'-4"	1'-9"	15'-0"	248#
CX001	6	5.0000	.1875	.1345	1'-8"	1'-8"	24'-6"	407#
EPX001	7	5.0000	.3750	.1644	11"	11"	25'-11 1/2"	344#

Frame Clearances
 Horiz. Clearance between members 1 (CX001) and 6 (CX001): 45'-3"
 Vert. Clearance at member 1 (CX001): 24'-6"
 Vert. Clearance at member 6 (CX001): 24'-6"
 Vert. Clearance at member 7 (EPX001): 25'-11 1/2"
 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	Washer	PartNo
A	8	A325	3/4"	2 1/2"	3/8"	2	2		0097284
B	4	A325	3/4"	2 1/2"	3/8"	1	1		0097284
C	4	A325	1/2"	1 1/2"	3/8"	1	1	Yes	49080

- 6 28'-0 1/2" Ridge Ht.
 - 5 2 @ 4'-5 7/16"
 - 4 1'-1 3/8"
 - 3 3'-9"
 - 2 9"
 - 1 8 1/2"
- Dimension Key

Shape Name = DYMECH 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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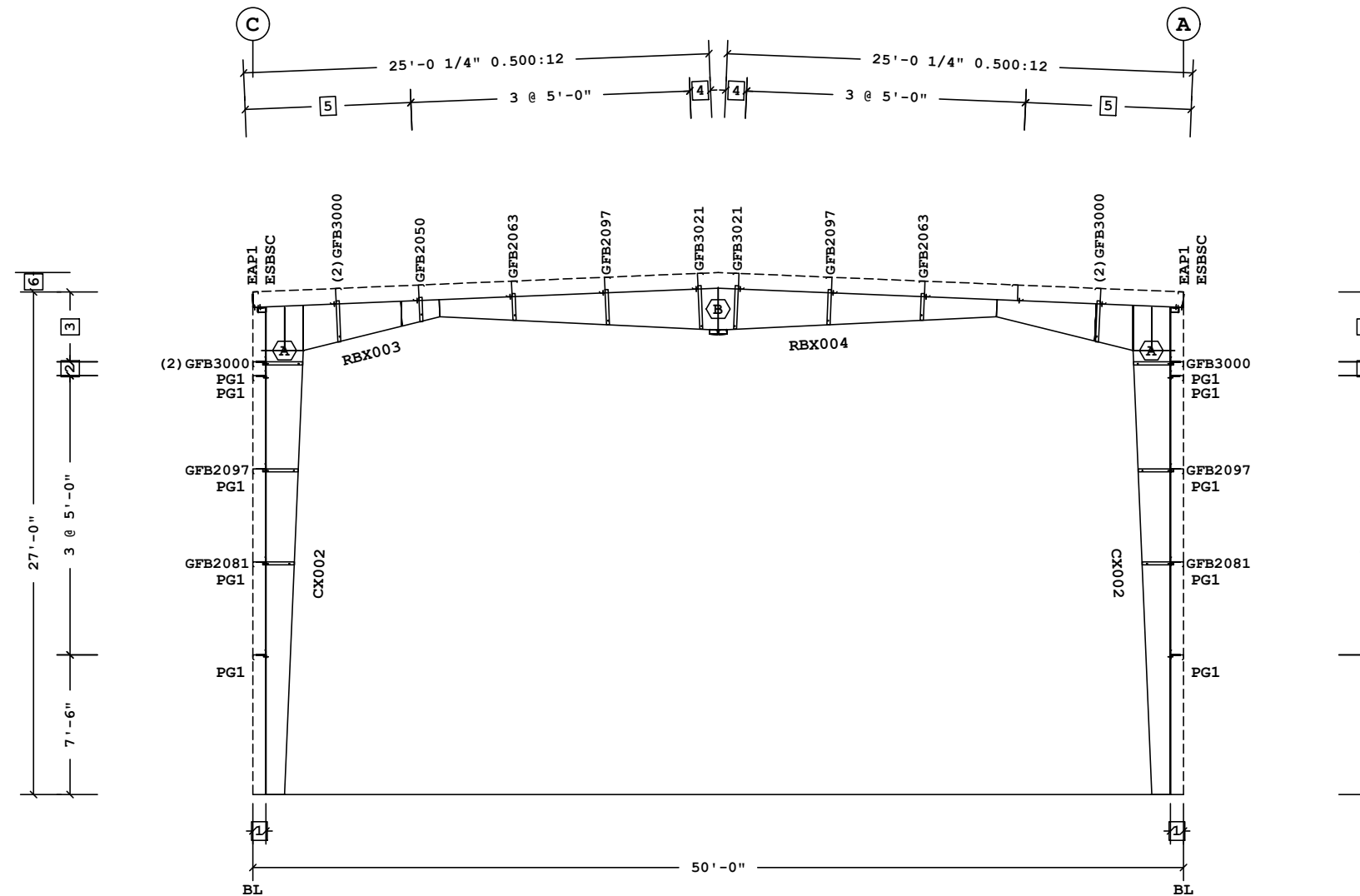
B	BUTLER MANUFACTURING		DYMECH -Frame at 1	
	1540 GENESSEE ST. KANSAS CITY, MO 64102		BUILDER: BBS Construction (Ontario) Ltd.	
REV:	DATE:	BY:	DESCRIPTION:	CUSTOMER:
				LOCATION: Ottawa, Ontario
				PROJECT: HERITAGE GRADE RESTORATION BLDG
DRAWING SCALE: NTS			BUILDER'S PO#:	

BUTLER
 Butler Manufacturing
 VPC VERSION: ADVNXT 3.7

JOB #:	
DATE:	1/15/2020
DRAWN/CHECK:	1
PAGE:	

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx. Lgth	Approx. Weight
CX002	1	6.0000	.5000	.1345	1'-0"	2'-0"	23'-10 3/16"	705#
RBX003	2	5.0000	.3750	.1644	2'-5"	11"	25'-0"	654#
	3	5.0000	.3750	.1345	11"	2'-3"		
RBX004	4	5.0000	.3750	.1345	2'-3"	11"	25'-0"	660#
	5	5.0000	.3750	.1644	11"	2'-5"		
CX002	6	6.0000	.5000	.1345	1'-0"	2'-0"	23'-10 3/16"	705#

Frame Clearances
 Horiz. Clearance between members 1 (CX002) and 6 (CX002): 44'-7"
 Vert. Clearance at member 1 (CX002): 23'-10 3/16"
 Vert. Clearance at member 6 (CX002): 23'-10 3/16"
 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	12	A325	3/4"	2 1/2"	1/2"	4	2	0097284
B	10	A325	3/4"	2 1/2"	3/8"	1	4	0097284

- 6 28'-0 1/2" Ridge Ht.
 - 5 2 @ 4'-5 7/16"
 - 4 1'-1 3/8"
 - 3 3'-9"
 - 2 9"
 - 1 8 1/2"
- Dimension Key

Shape Name = DYMECH 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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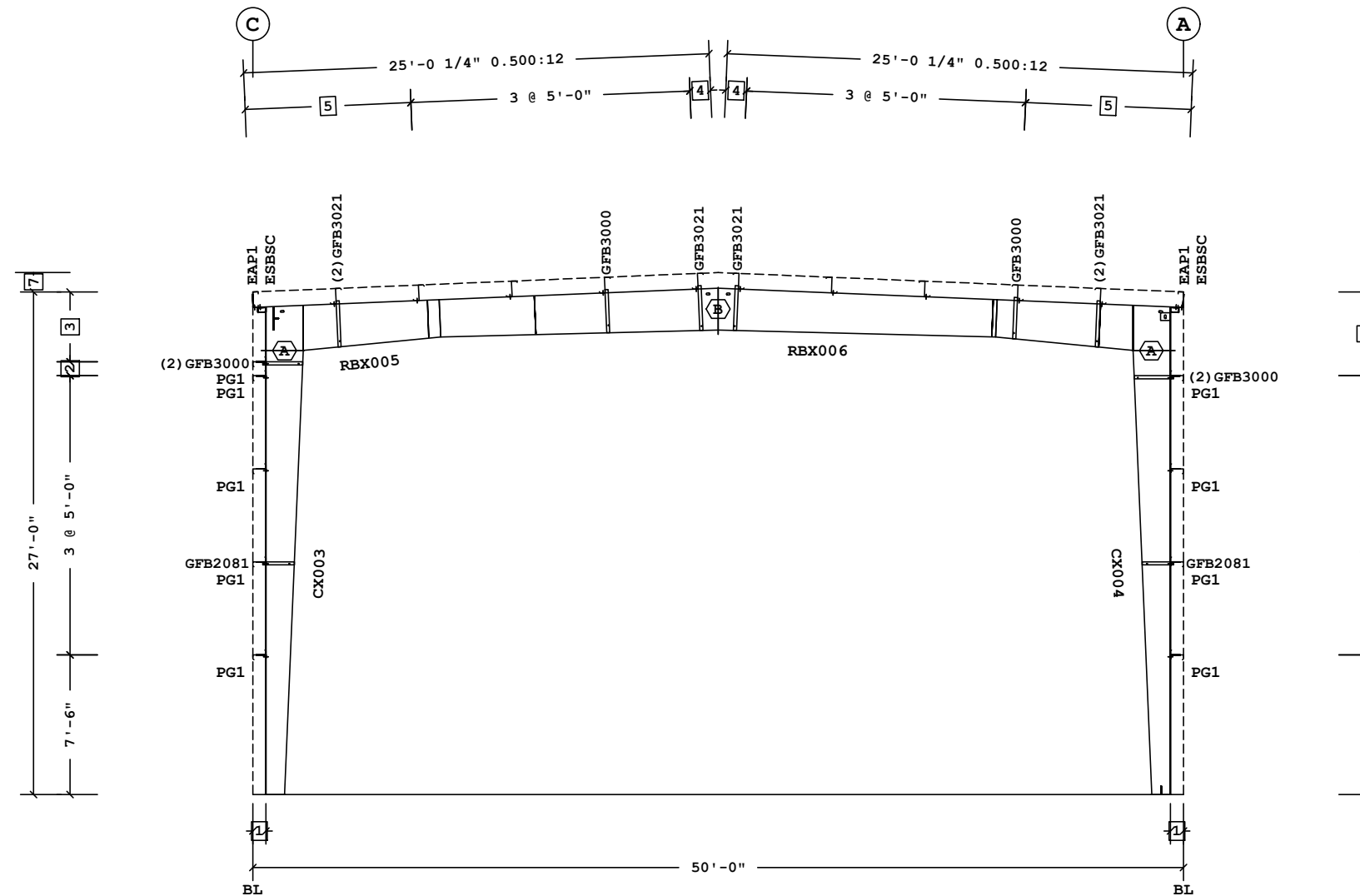
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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			DYMECH -Frame at 2	
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: BBS Construction (Ontario) Ltd.
					CUSTOMER:
					LOCATION: Ottawa, Ontario
					PROJECT: HERITAGE GRADE RESTORATION BLDG
					BUILDER'S PO#:
DRAWING SCALE: NTS					
					JOB #:
					DATE: 1/15/2020
					DRAWN/CHECK: 1
					PAGE:
					Butler Manufacturing VPC VERSION: ADVNXT 3.7

Frame Member Schedule								
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx. Lgth	Approx. Weight
CX003	1	6.0000	.6250	.1345	1'-0"	2'-0"	23'-10 1/8"	824#
RBX005	2	6.0000	.3125	.1875	2'-5"	2'-0"	25'-0"	916#
	3	6.0000	.5000	.1644	2'-0"	2'-3"		
RBX006	4	6.0000	.5000	.1644	2'-3"	2'-0"	25'-0"	910#
	5	6.0000	.3125	.1875	2'-0"	2'-5"		
CX004	6	6.0000	.6250	.1345	1'-0"	2'-0"	23'-10 1/8"	826#

Frame Clearances
 Horiz. Clearance between members 1 (CX003) and 6 (CX004): 44'-7"
 Vert. Clearance at member 1 (CX003): 23'-10 1/8"
 Vert. Clearance at member 6 (CX004): 23'-10 1/8"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 3

⬡ Bolt Connection & Plate Schedule

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

- 7 28'-0 1/2" Ridge Ht.
 - 6 4'-6"
 - 5 2 @ 4'-5 7/16"
 - 4 1'-1 3/8"
 - 3 3'-9"
 - 2 9"
 - 1 8 1/2"
- ☐ Dimension Key

Shape Name = DYMECH Wall 4, Frame 3

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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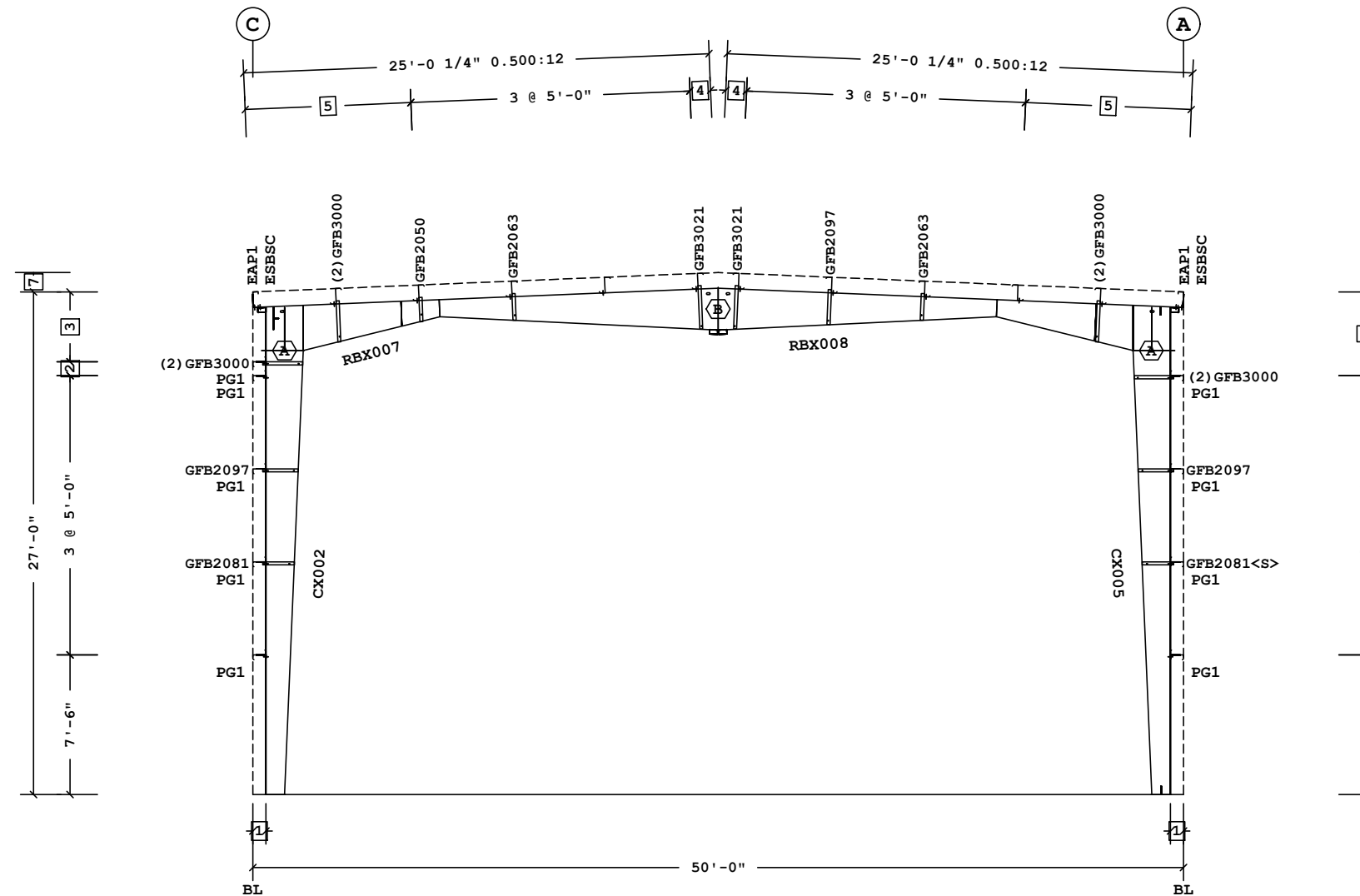
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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		DYMECH -Frame at 3	
	REV:	DATE:	BY:	DESCRIPTION:
BUILDER: BBS Construction (Ontario) Ltd.			CUSTOMER:	
LOCATION: Ottawa, Ontario			PROJECT: HERITAGE GRADE RESTORATION BLDG	
DRAWING SCALE: NTS			BUILDER'S PO#:	
JOB #:			DATE: 1/15/2020	
DRAWN/CHECK: 1			PAGE:	
Butler Manufacturing VPC VERSION: ADVNXT 3.7				

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx. Lgth	Approx. Weight
CX002	1	6.0000	.5000	.1345	1'-0"	2'-0"	23'-10 3/16"	705#
RBX007	2	5.0000	.3750	.1644	2'-5"	11"	25'-0"	665#
	3	5.0000	.3750	.1345	11"	2'-3"		
RBX008	4	5.0000	.3750	.1345	2'-3"	11"	25'-0"	663#
	5	5.0000	.3750	.1644	11"	2'-5"		
CX005	6	6.0000	.5000	.1345	1'-0"	2'-0"	23'-10 3/16"	707#

Frame Clearances
 Horiz. Clearance between members 1 (CX002) and 6 (CX005): 44'-7"
 Vert. Clearance at member 1 (CX002): 23'-10 3/16"
 Vert. Clearance at member 6 (CX005): 23'-10 3/16"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE (S) 4

- 7 28'-0 1/2" Ridge Ht.
 - 6 4'-6"
 - 5 2 @ 4'-5 7/16"
 - 4 1'-1 3/8"
 - 3 3'-9"
 - 2 9"
 - 1 8 1/2"
- Dimension Key

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	12	A325	3/4"	2 1/2"	1/2"	4	2	0097284
B	10	A325	3/4"	2 1/2"	3/8"	1	4	0097284

<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.

Shape Name = DYMECH 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.
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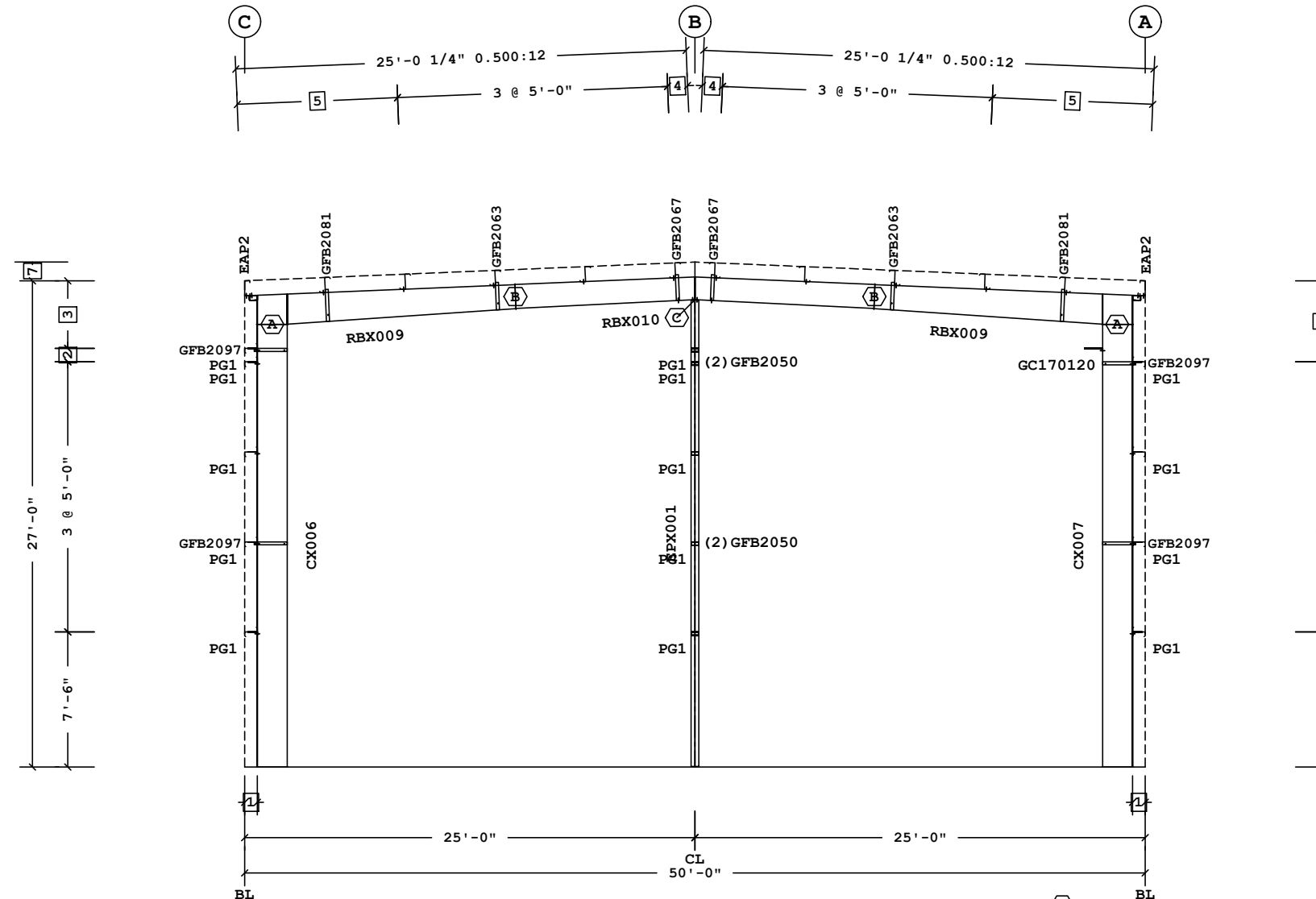
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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			DYMECH -Frame at 4	
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: BBS Construction (Ontario) Ltd.
					CUSTOMER:
					LOCATION: Ottawa, Ontario
					PROJECT: HERITAGE GRADE RESTORATION BLDG
					BUILDER'S PO#:
DRAWING SCALE: NTS				JOB #:	
				DATE: 1/15/2020	
				DRAWN/CHECK: /	
				PAGE:	
				BUTLER Butler Manufacturing VPC VERSION: ADVNXT 3.7	

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx. Lgth	Approx. Weight
CX006	1	5.0000	.1875	.1345	1'-8"	1'-8"	24'-7"	408#
RBX009	2	5.0000	.1875	.1345	1'-8"	1'-4"	15'-0"	243#
RBX010	3	5.0000	.1345	.1345	1'-4"	1'-3"	20'-0"	257#
	4	5.0000	.1345	.1345	1'-3"	1'-4"		
RBX009	5	5.0000	.1875	.1345	1'-4"	1'-8"	15'-0"	243#
CX007	6	5.0000	.1875	.1345	1'-8"	1'-8"	24'-7"	408#
EPX001	7	5.0000	.3750	.1644	11"	11"	25'-11 1/2"	344#

Frame Clearances
 Horiz. Clearance between members 1 (CX006) and 6 (CX007): 45'-3"
 Vert. Clearance at member 1 (CX006): 24'-7"
 Vert. Clearance at member 6 (CX007): 24'-7"
 Vert. Clearance at member 7 (EPX001): 25'-11 1/2"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 5

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	Washer	PartNo
A	8	A325	3/4"	2 1/2"	3/8"	2	2		0097284
B	4	A325	3/4"	2 1/2"	3/8"	1	1		0097284
C	4	A325	1/2"	1 1/2"	3/8"	1	1	Yes	49080

- 7 28'-0 1/2" Ridge Ht.
- 6 4'-6"
- 5 2 @ 4'-5 7/16"
- 4 1'-1 3/8"
- 3 3'-9"
- 2 9"
- 1 8 1/2"

Dimension Key

Shape Name = DYMECH Wall 4, Frame 5

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		DYMECH -Frame at 5	
	REV:	DATE:	BY:	DESCRIPTION:
DRAWING SCALE: NTS			BUILDER: BBS Construction (Ontario) Ltd.	JOB #:
			CUSTOMER:	DATE: 1/15/2020
			LOCATION: Ottawa, Ontario	DRAWN/CHECK: /
			PROJECT: HERITAGE GRADE RESTORATION BLDG	PAGE:
			BUILDER'S PO#:	

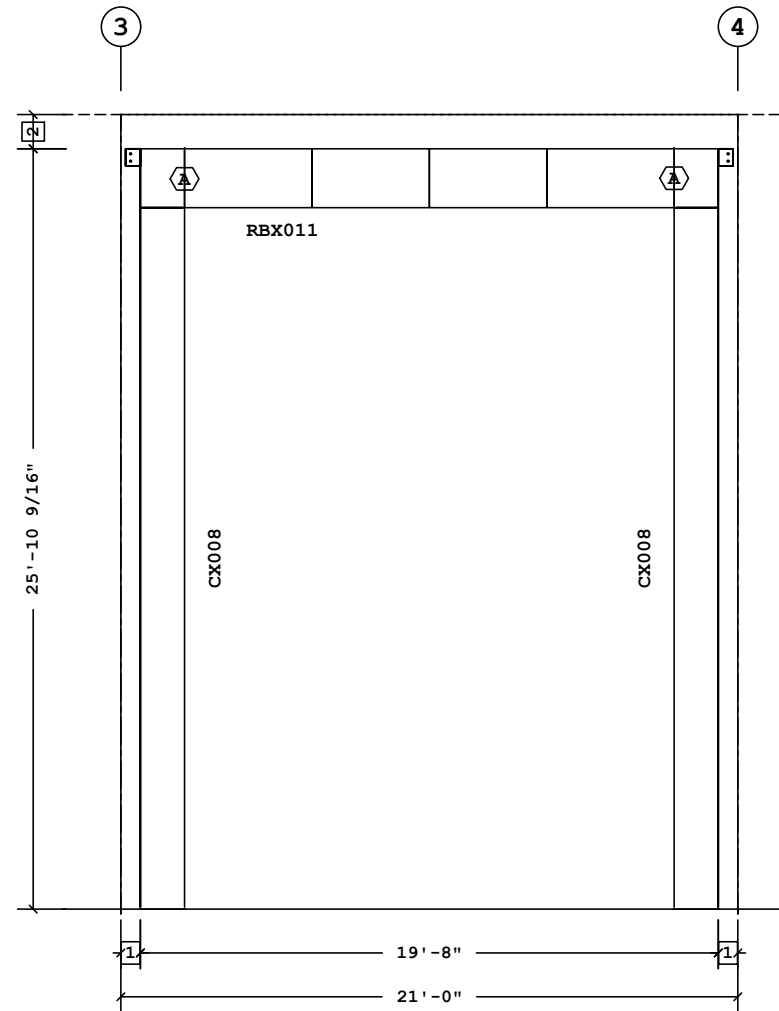


Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx. Lgth	Approx. Weight
CX008	1	12.0000	.5000	.1345	1'-6"	1'-6"	25'-10 9/16"	1366#
RBX011	2	8.0000	.2500	.1345	2'-0"	2'-0"	16'-8"	469#
CX008	3	8.0000	.2500	.1345	2'-0"	2'-0"	16'-8"	469#
CX008	4	12.0000	.5000	.1345	1'-6"	1'-6"	25'-10 9/16"	1366#

Frame Clearances

Horiz. Clearance between members 1 (CX008) and 4 (CX008): 16'-8"
 Vert. Clearance at member 1 (CX008): 23'-10 1/16"
 Vert. Clearance at member 4 (CX008): 23'-10 1/16"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



PORTAL FRAME ELEVATION ALONG C

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	12	A325	3/4"	2 1/2"	1/2"	3	3	0097284

2 1'-2"
 1 8"
 □ Dimension Key


Shape Name = DYMECH Wall 4, Frame 3

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		DYMECH -Portal Frame at C 3-4	
	REV:	DATE:	BY:	DESCRIPTION:
BUILDER: BBS Construction (Ontario) Ltd.			JOB #:	
LOCATION: Ottawa, Ontario			DATE: 1/15/2020	
PROJECT: HERITAGE GRADE RESTORATION BLDG			DRAWN/CHECK: /	
DRAWING SCALE: NTS			PAGE: 1	
BUILDER'S PO#:			 Butler Manufacturing VPC VERSION: ADVNXT 3.7	

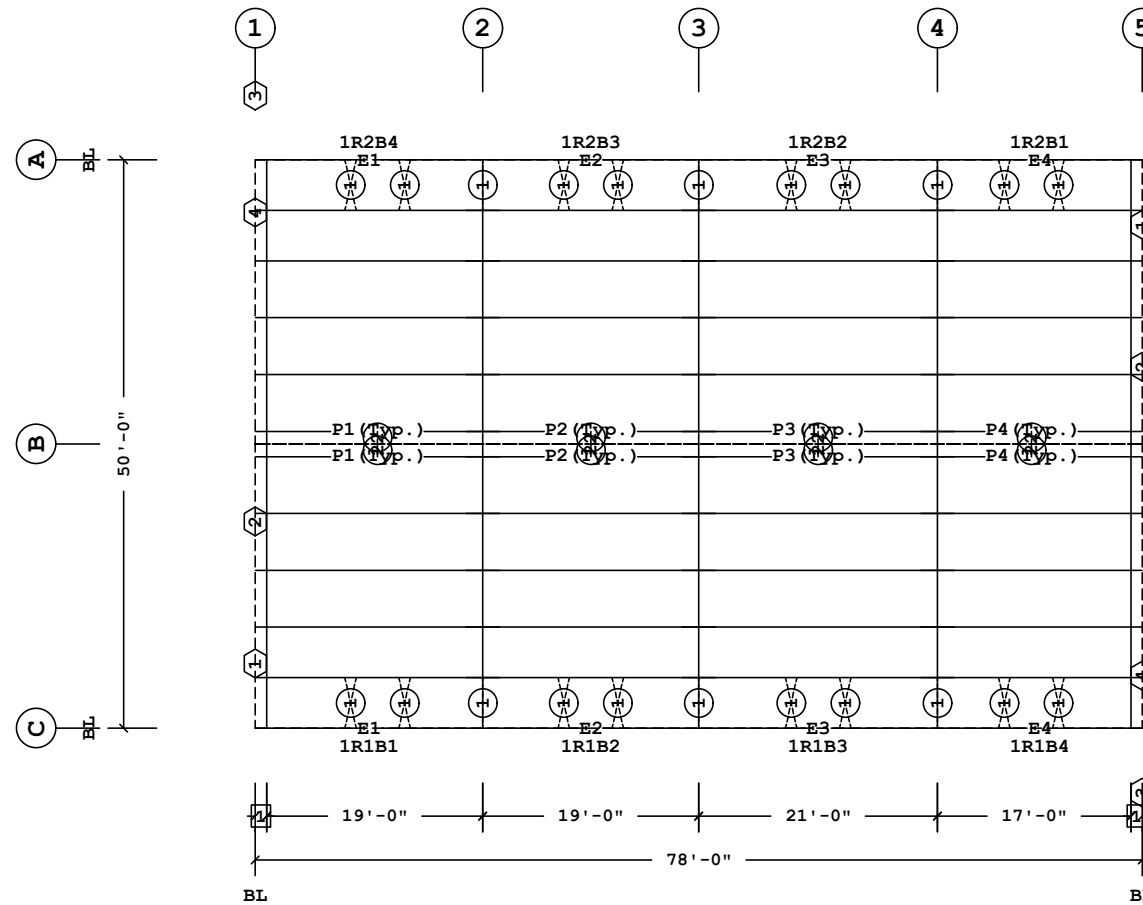
Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
E1	10E1911414ADB30	0.0790	10"		RS12PF,RS12PE,RS12PJ
E2	10E1811414DDB30	0.0790	10"		RS12PE,RS12PJ
E3	10E2011414DDB30	0.0790	10"		RS12PE,RS12PJ
E4	10E1711414ADB30	0.0790	10"		RS12PF,RS12PE,RS12PJ
P1	10Z2105412A2B3	0.0980	10"	1'-4 1/2"	RS02T1,RS01U1
P2	10Z211141322B2	0.0880	10"	1'-4 1/2"	RS01U1
P3	10Z231141422B2	0.0790	10"	1'-4 1/2"	RS01U1
P4	10Z1905412A2A3	0.0980	10"	1'-4 1/2"	RS02T1,RS01U1

Secondary Bracing Schedule

Id	Qty	Mark No	Spacing
1	38	PBA0409	4'-5 7/16"
2	8	CPBRA010602 (Typ.)	1'-1 3/8"

See SED:
BR09K5, BR09JG, BR09RY, BR09RZ, BR09JK
BR09K2



ROOF SECONDARY PLAN

Part Mark Key

1	002SGA11043
2	002SGA13067
3	001SGA11043
4	001SGA13067

1 1'-0"
Dimension Key

Shape Name = DYMECH

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.
2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS.
3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

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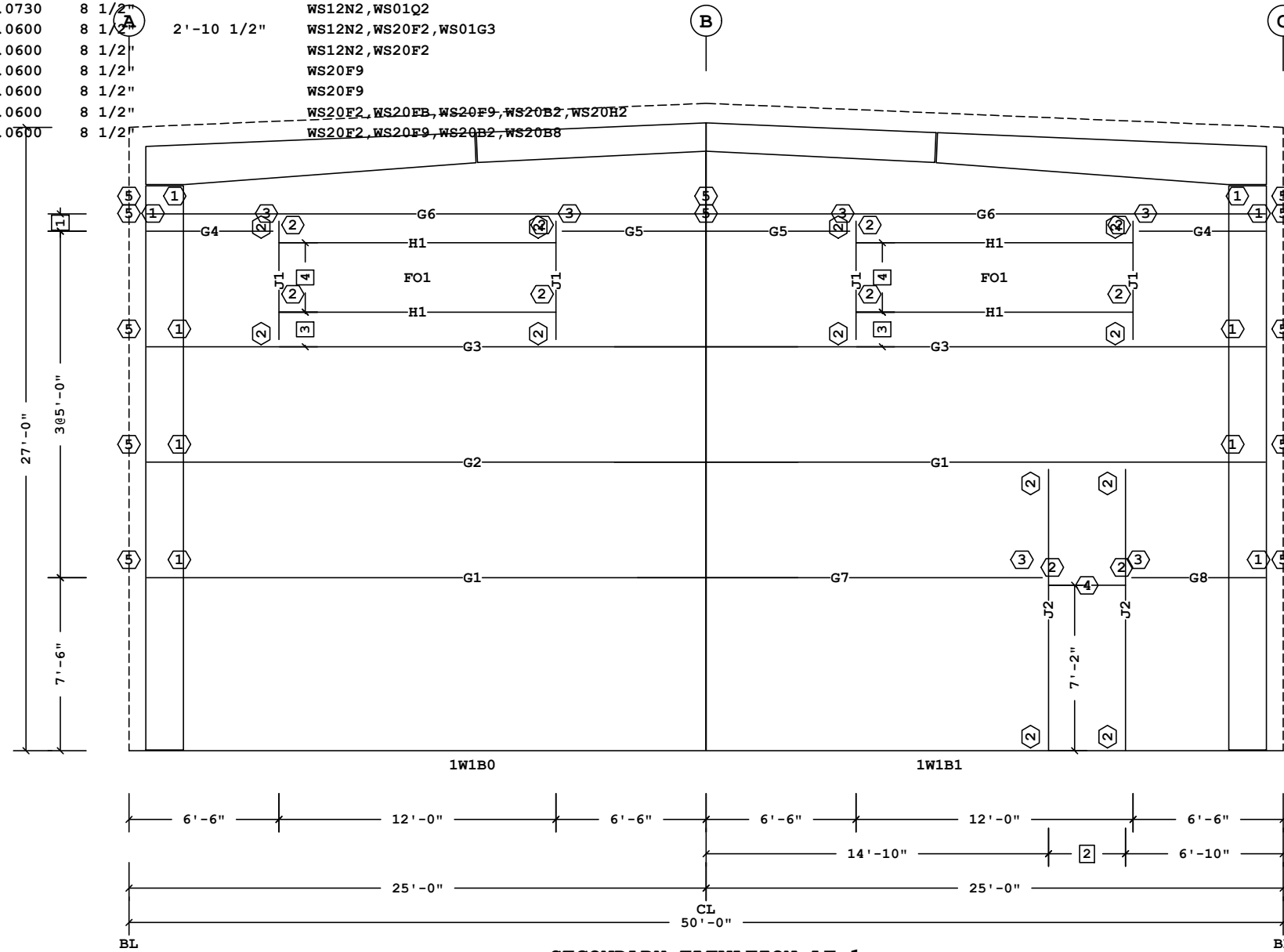
B BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				ROOF SECONDARY PLAN	
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	BBS Construction (Ontario) Ltd.
				CUSTOMER:	
				LOCATION:	Ottawa, Ontario
				PROJECT:	HERITAGE GRADE RESTORATION BLDG
				BUILDER'S PO#:	
DRAWING SCALE: NTS				JOB #:	
				DATE: 1/15/2020	
				DRAWN/CHECK: /	
				PAGE:	
				BUTLER Butler Manufacturing VPC VERSION: ADVNXT 3.7	

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G1	08Z2802414Q502	0.0790	8 1/2"	3'-10 1/2"	WS12N2, WS01G3
G2	08Z2802415Q502	0.0730	8 1/2"	3'-10 1/2"	WS12N2, WS01G3
G3	08Z2802417Q502	0.0600	8 1/2"	3'-10 1/2"	WS12N2, WS01G3
G4	08Z0505417GQ02	0.0600	8 1/2"		WS12N2, WS20F2
G5	08Z0602417DG02	0.0600	8 1/2"		WS12N2, WS20F2, WS01Q2
G6	08Z2402415DQ02	0.0730	8 1/2"		WS12N2, WS01Q2
G7	00108ZS170641702	0.0600	8 1/2"	2'-10 1/2"	WS12N2, WS20F2, WS01G3
G8	00208ZS050941702	0.0600	8 1/2"		WS12N2, WS20F2
H1	00108JS1200017	0.0600	8 1/2"		WS20F9
H2	00308JS0304017	0.0600	8 1/2"		WS20F9
J1	00208JS0501417	0.0600	8 1/2"		WS20F2, WS20EB, WS20F9, WS20B2, WS20BZ
J2	00408JS1202217	0.0600	8 1/2"		WS20F2, WS20F9, WS20B2, WS20B8

Framed Opening Locations

Id	Width	Height	Sill Ht.	Frame	To	Dimen.	Description
FO1	12'-0"	3'-0"	19'-0"	BL	Jamb-L	6'-6"	Framed Opening #2 - WINDOW 12X3, Sill 19/0/0, Height 3/0/0
FO1	12'-0"	3'-0"	19'-0"	1	Jamb-L	6'-6"	Framed Opening #2 - WINDOW 12X3, Sill 19/0/0, Height 3/0/0



- | | | | |
|---|-------|---|-------------|
| 4 | 3'-0" | 5 | GFAP1054 |
| 3 | 1'-6" | 4 | H2 |
| 2 | 3'-4" | 3 | JTG1 |
| 1 | 9" | 2 | PG1 |
| | | 1 | VCC07003090 |
- Dimension Key ◯ Part Mark Key

Shape Name = DYMECH, Wall = 1

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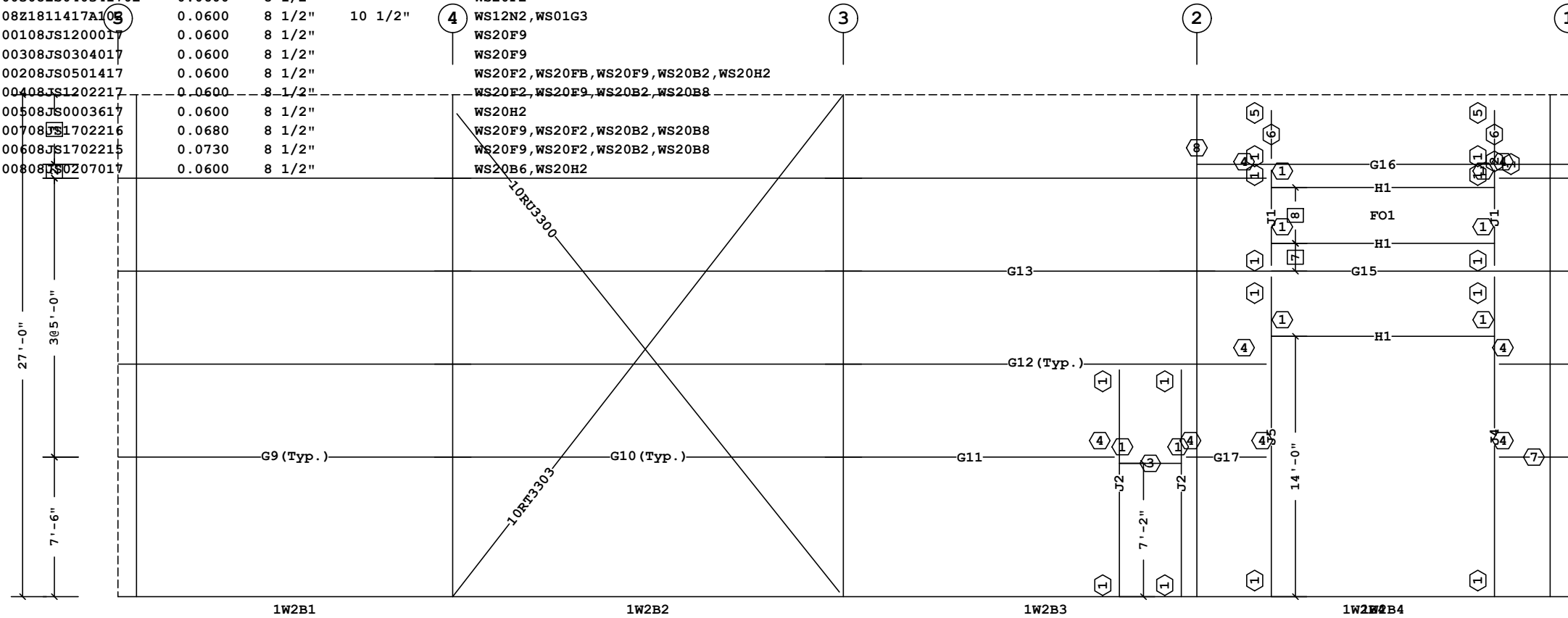
B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			DYMECH -Secondary at 1	
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: BBS Construction (Ontario) Ltd.
DRAWING SCALE: NTS				LOCATION: Ottawa, Ontario	JOB #:
				PROJECT: HERITAGE GRADE RESTORATION BLDG	DATE: 1/15/2020
				BUILDER'S PO#:	DRAWN/CHECK: /
					PAGE:
					Butler Manufacturing VPC VERSION: ADVNXT 3.7

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G10	08Z22114171102	0.0600	8 1/2"	10 1/2"	WS01G3
G11	00308ZS150641702	0.0600	8 1/2"	10 1/2"	WS20F2,WS01G3
G12	00408ZS230841702	0.0600	8 1/2"	10 1/2"	WS20F2,WS01G3
G13	08Z20114171102	0.0600	8 1/2"	10 1/2"	WS01G3
G14	08Z0308417AG02	0.0600	8 1/2"		WS12N2,WS20F2
G15	08Z2111416A302	0.0680	8 1/2"	1'-10 1/2"	WS12N2,WS01G3
G16	08Z1911417AD02	0.0600	8 1/2"		WS12N2,WS01Q2
G17	00508ZS040341702	0.0600	8 1/2"		WS20F2
G9	08Z1811417A103	0.0600	8 1/2"	10 1/2"	WS12N2,WS01G3
H1	00108JS1200017	0.0600	8 1/2"		WS20F9
H2	00308JS0304017	0.0600	8 1/2"		WS20F9
J1	00208JS0501417	0.0600	8 1/2"		WS20F2,WS20FB,WS20F9,WS20B2,WS20H2
J2	00408JS1202217	0.0600	8 1/2"		WS20F2,WS20F9,WS20B2,WS20B8
J3	00508JS0003617	0.0600	8 1/2"		WS20H2
J4	00708JS1702216	0.0680	8 1/2"		WS20F9,WS20F2,WS20B2,WS20B8
J5	00608JS1702215	0.0730	8 1/2"		WS20F9,WS20F2,WS20B2,WS20B8
J6	00808JS0207017	0.0600	8 1/2"		WS20B6,WS20H2

Framed Opening Locations

Id	Width	Height	Sill Ht.	Frame	To	Dimen.	Description
FO1	12'-0"	3'-0"	19'-0"	4	Jamb-L	4'-0"	Framed Opening #2 - WINDOW 12X3, Sill 19/0/0, Height 3/0/0



Bracing Part Schedule

Part	Qty	Length	Detail
10RT3303	1	33'-3"	BR02K1, BR01G2
10RU3300	1	33'-0"	BR02K1

SECONDARY ELEVATION AT A

8	3'-0"	8	GFAP0084
7	1'-6"	7	G14 (Typ.)
6	4'-0"	6	J6
5	10"	5	TSC1
4	3'-4"	4	JTG1
3	3'-9"	3	H2
2	9"	2	J3
1	1'-0"	1	PG1

Dimension Key

Part Mark Key

Shape Name = DYMECH, Wall = 2

- 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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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			DYMECH -Secondary at A	
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: BBS Construction (Ontario) Ltd.
DRAWING SCALE: NTS				LOCATION: Ottawa, Ontario	JOB #:
				PROJECT: HERITAGE GRADE RESTORATION BLDG	DATE: 1/15/2020
				BUILDER'S PO#:	DRAWN/CHECK: /
					PAGE:

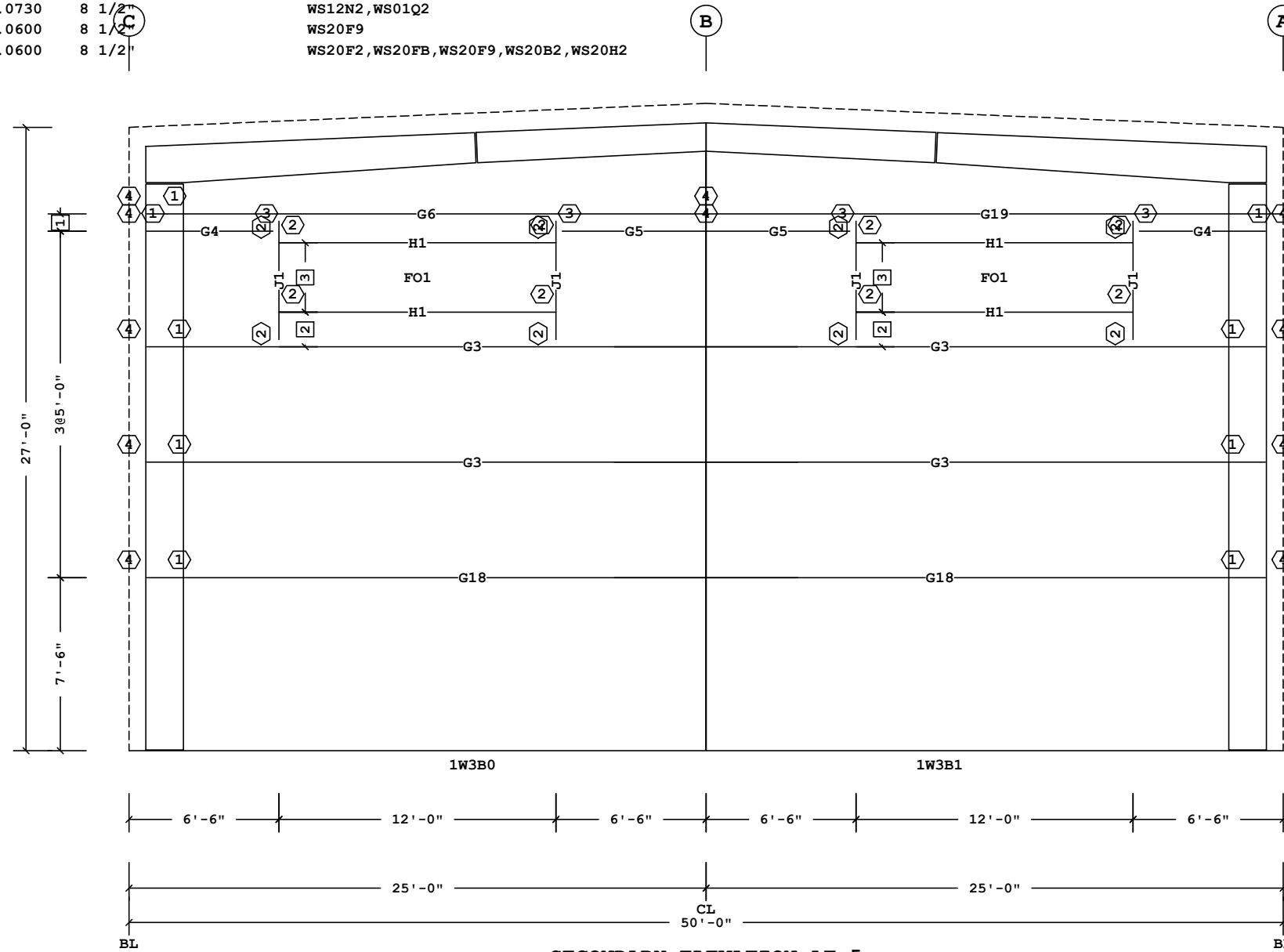


Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G18	08Z2802416Q502	0.0680	8 1/2"	3'-10 1/2"	WS12N2, WS01G3
G19	08Z2411415DD02	0.0730	8 1/2"		WS12N2, WS01Q2
G3	08Z2802417Q502	0.0600	8 1/2"	3'-10 1/2"	WS12N2, WS01G3
G4	08Z0505417GQ02	0.0600	8 1/2"		WS12N2, WS20F2
G5	08Z0602417DG02	0.0600	8 1/2"		WS12N2, WS20F2, WS01Q2
G6	08Z2402415DQ02	0.0730	8 1/2"		WS12N2, WS01Q2
H1	00108JS1200017	0.0600	8 1/2"		WS20F9
J1	00208JS0501417	0.0600	8 1/2"		WS20F2, WS20FB, WS20F9, WS20B2, WS20H2

Framed Opening Locations

Id	Width	Height	Sill Ht.	Frame	To	Dimen.	Description
FO1	12'-0"	3'-0"	19'-0"	BL	Jamb-L	6'-6"	Framed Opening #2 - WINDOW 12X3, Sill 19/0/0, Height 3/0/0
FO1	12'-0"	3'-0"	19'-0"	1	Jamb-L	6'-6"	Framed Opening #2 - WINDOW 12X3, Sill 19/0/0, Height 3/0/0



SECONDARY ELEVATION AT 5

3	3'-0"	4	GFAP1054
2	1'-6"	3	JTG1
1	9"	2	PG1
		1	VCC07003090

□ Dimension Key ◯ Part Mark Key

Shape Name = DYMECH , Wall = 3

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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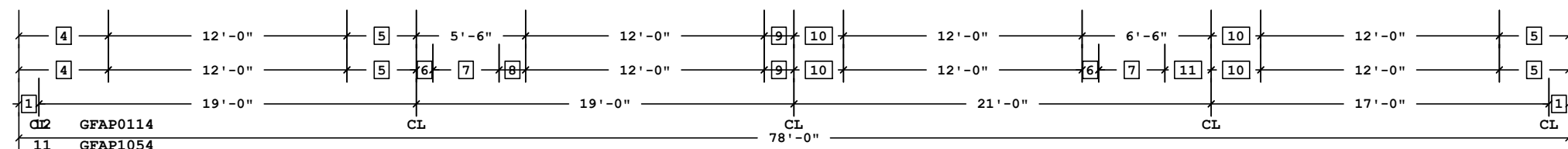
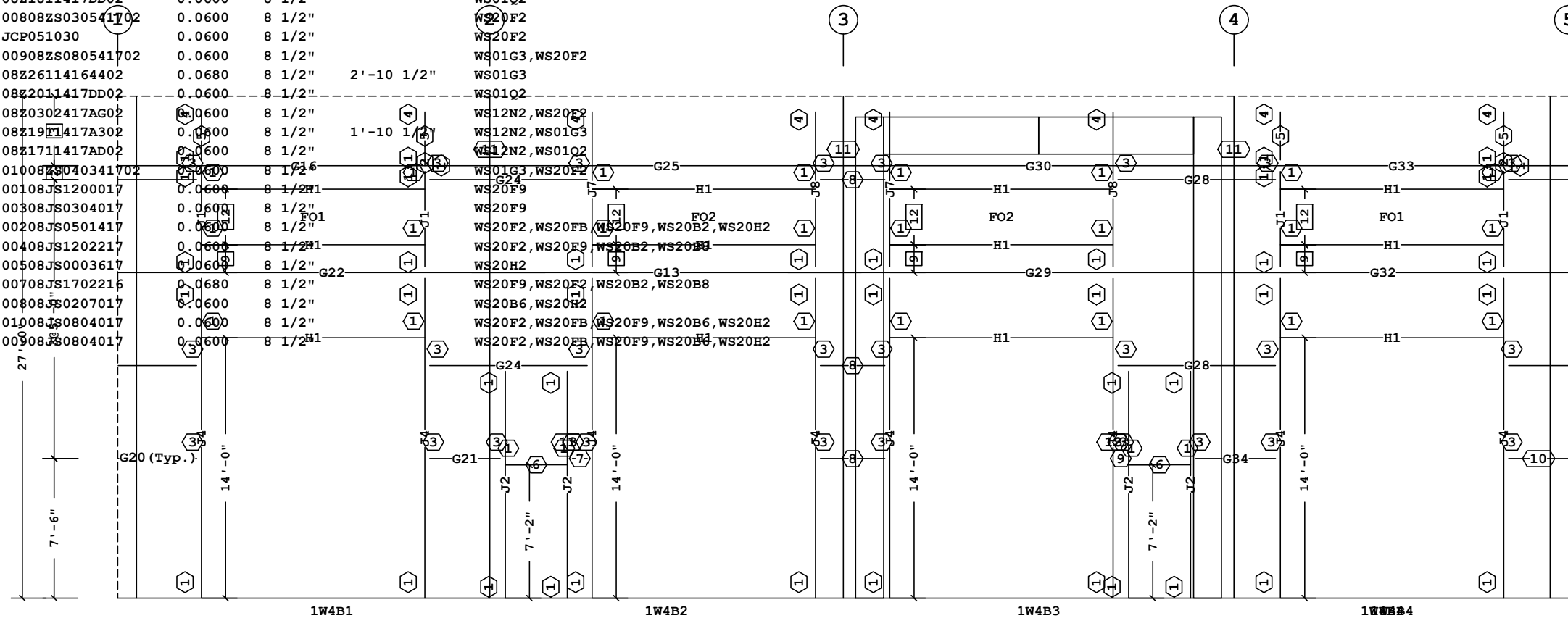
B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			DYMECH -Secondary at 5	
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER: BBS Construction (Ontario) Ltd.
					CUSTOMER:
					LOCATION: Ottawa, Ontario
					PROJECT: HERITAGE GRADE RESTORATION BLDG
					BUILDER'S PO#:
DRAWING SCALE: NTS				JOB #:	
				DATE: 1/15/2020	
				DRAWN/CHECK: /	
				PAGE:	
				BUTLER Butler Manufacturing VPC VERSION: ADVNXT 3.7	

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G13	08Z20114171102	0.0600	8 1/2"	10 1/2"	WS01G3
G16	08Z1911417AD02	0.0600	8 1/2"		WS12N2, WS01Q2
G20	08Z0402417AG02	0.0600	8 1/2"		WS12N2, WS20F2
G21	00608ZS030941702	0.0600	8 1/2"		WS12N2, WS20F2
G22	08Z2211415A402	0.0730	8 1/2"	2'-10 1/2"	WS12N2, WS01G3
G23	JCP051090	0.0600	8 1/2"		WS20F2
G24	00708ZS080541702	0.0600	8 1/2"		WS01G3, WS20F2
G25	08Z1811417DD02	0.0600	8 1/2"		WS01Q2
G26	00808ZS030541702	0.0600	8 1/2"		WS20F2
G27	JCP051030	0.0600	8 1/2"		WS20F2
G28	00908ZS080541702	0.0600	8 1/2"		WS01G3, WS20F2
G29	08Z26114164402	0.0680	8 1/2"	2'-10 1/2"	WS01G3
G30	08Z2011417DD02	0.0600	8 1/2"		WS01Q2
G31	08Z0302417AG02	0.0600	8 1/2"		WS12N2, WS20F2
G32	08Z1911417A302	0.0600	8 1/2"	1'-10 1/2"	WS12N2, WS01G3
G33	08Z1711417AD02	0.0600	8 1/2"		WS12N2, WS01Q2
G34	01008ZS040341702	0.0600	8 1/2"	1'-6"	WS01G3, WS20F2
H1	00108JS1200017	0.0600	8 1/2"		WS20F9
H2	00308JS0304017	0.0600	8 1/2"		WS20F9
J1	00208JS0501417	0.0600	8 1/2"		WS20F2, WS20FB, WS20B2, WS20H2
J2	00408JS1202217	0.0600	8 1/2"		WS20F2, WS20F9, WS20B2, WS20H2
J3	00508JS0003617	0.0600	8 1/2"		WS20H2
J4	00708JS1702216	0.0680	8 1/2"		WS20F9, WS20F2, WS20B2, WS20B8
J6	00808JS0207017	0.0600	8 1/2"		WS20B6, WS20H2
J7	01008JS0804017	0.0600	8 1/2"		WS20F2, WS20FB, WS20F9, WS20B6, WS20H2
J8	00908JS0804017	0.0600	8 1/2"		WS20F2, WS20FB, WS20F9, WS20B6, WS20H2

Framed Opening Locations

Id	Width	Height	Sill Ht.	Frame	To	Dimen.	Description
FO1	12'-0"	3'-0"	19'-0"	1	Jamb-L	3'-6"	Framed Opening #2 - WINDOW 12X3, Sill 19/0/0, Height 3/0/0
FO1	12'-0"	3'-0"	19'-0"	4	Jamb-L	2'-6"	Framed Opening #2 - WINDOW 12X3, Sill 19/0/0, Height 3/0/0
FO2	12'-0"	3'-0"	19'-0"	2	Jamb-L	5'-6"	Framed Opening #2 - WINDOW 12X3, Sill 19/0/0, Height 3/0/0
FO2	12'-0"	3'-0"	19'-0"	3	Jamb-L	2'-6"	Framed Opening #2 - WINDOW 12X3, Sill 19/0/0, Height 3/0/0



SECONDARY ELEVATION AT C

- 12 3'-0"
- 11 2'-4"
- 10 2'-6"
- 9 1'-6"
- 8 1'-4"
- 7 3'-4"
- 6 10"
- 5 3'-6"
- 4 4'-6"
- 3 3'-9"
- 2 9"
- 1 1'-0"

Dimension Key Part Mark Key

Shape Name = DYMECH , Wall = 4

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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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		DYMECH -Secondary at C	
	REV:	DATE:	BY:	DESCRIPTION:
DRAWING SCALE: NTS		BUILDER: BBS Construction (Ontario) Ltd.		CUSTOMER:
		LOCATION: Ottawa, Ontario		PROJECT: HERITAGE GRADE RESTORATION BLDG
		BUILDER'S PO#:		PAGE: 1



Covering Schedule									
Id	Qty	Length	Type	Gage	OP	Fin.	Color	Direction	
#25	26	24'-9 3/4"	BRP	26	14	Z	AZ	Left to Right	
#26	26	24'-9 3/4"	BRP	26	15	Z	AZ	Right to Left	

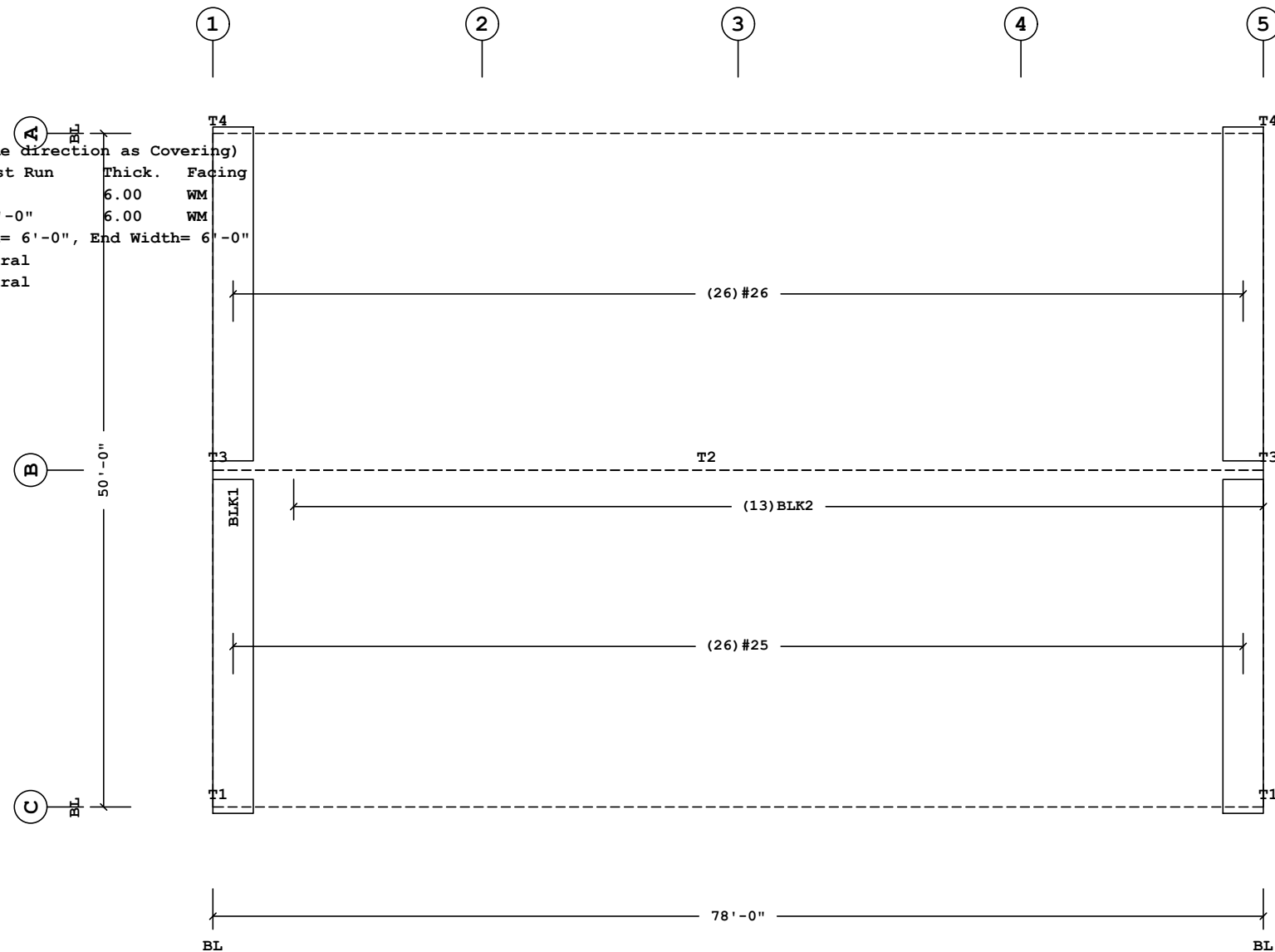
Oper. Code:14=SQ,SQ
 Oper. Code:15=SQ,SQ
 Finish:Z=AlZn
 Color:AZ=Plain AlZn

Trim Schedule	
Id	Parts
T1	0630043
T2	(26) 0560097
T3	BRRETT, RBT2, (0.1) WA10A
T4	0630043

Color	Details
Match Wall Color	
Match Roof Color	ENB003,NV662
Match Wall Color	
Match Wall Color	

Insulation Schedule (Install in same direction as Covering)						
Id	Qty	Type	Start Run	Last Run	Thick.	Facing
BLK1	1	IB	53'-0"		6.00	WM
BLK2	13	IB	53'-0"	53'-0"	6.00	WM

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:WM=WMP-50



ROOF COVERING PLAN

Fastener Schedule	
Part	Description
0097357UNPNTD	(T-1) 1/4-14 x 7/8", 3/8" Hex Hd w/Washer

Planograph Schedule	
Id	Details
T1	P-081166, P-081236, P-081242, P-103223, P-104542, P-104551
T2	P-102961, P-104288, P-105848
T3	P-081166, P-081168, P-GAI
T4	P-081166, P-081236, P-081242, P-103223, P-104542, P-104551


Shape Name = DYMECH

- 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		ROOF COVERING PLAN	
	REV:	DATE:	BY:	DESCRIPTION:
	BUILDER: BBS Construction (Ontario) Ltd.		CUSTOMER:	
	LOCATION: Ottawa, Ontario		PROJECT: HERITAGE GRADE RESTORATION BLDG	
DRAWING SCALE: NTS		BUILDER'S PO#:		 Butler Manufacturing VPC VERSION: ADVNXT 3.7
1/15/2020		10:36:32 PRELIMINARY DRAWING		JOB #: DATE: 1/15/2020 DRAWN/CHECK: / PAGE:

Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#1	3	BRP	27'-0 1/2"	26	37	K	WB	1 1/2"	Left to Right
#2	3	BRP	5'-4 1/8"	26	36	K	WB	1 1/2"	Left to Right
#3	6	BRP	19'-0 5/8"	26	78	K	WB		Left to Right
#4	2	BRP	27'-9 1/2"	26	37	K	WB	1 1/2"	Left to Right
#5	3	BRP	28'-0"	26	37	K	WB	-1 1/2"	Left to Right
#6	3	BRP	5'-6 5/8"	26	36	K	WB	-1 1/2"	Left to Right
#7	3	BRP	27'-3"	26	37	K	WB	-1 1/2"	Left to Right

Trim Schedule

Id	Parts
T1	(2) BA225, (4.2) BT12A
T2	(0.5) DSF12
T3	DG12
T4	DSF12
T5	(0.5) DG12
T6	(3) BRCT12
T7	(2.1) BRCL12, (2.5) WA10A, (1.2) BRGT20R
T8	(2.1) BRCL12, (2.5) WA10A, (1.2) BRGT20L

Color	Details
Match Wall Color	ENB003, GV383, NV663, WCB036, WCB038
Match Wall Color	NV539
Match Wall Color	NV537
Match Wall Color	NV538, NV539
Match Wall Color	NV537
Match Wall Color	WCB037, WCB040
Cool Birch White	KV357, KV358, PV166, WCB043, WCB044
Cool Birch White	KV357, KV358, PV166, WCB043, WCB044

Oper. Code: 37=SQ, SQ

Oper. Code: 36=SQ, SQ

Oper. Code: 78=SQ, SQ

Installation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing	Increment
BLK1	1	IB	28'-6"		6.00	WM	
BLK2	1	IB	28'-6"		6.00	WM	
BLK3	1	IB	7'-0"		6.00	WM	
BLK4	1	IB	19'-0"		6.00	WM	
BLK5	1	IB	29'-0"		6.00	WM	
BLK6	1	IB	29'-6"		6.00	WM	
BLK7	4	IB	29'-0"	28'-6"	6.00	WM	

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

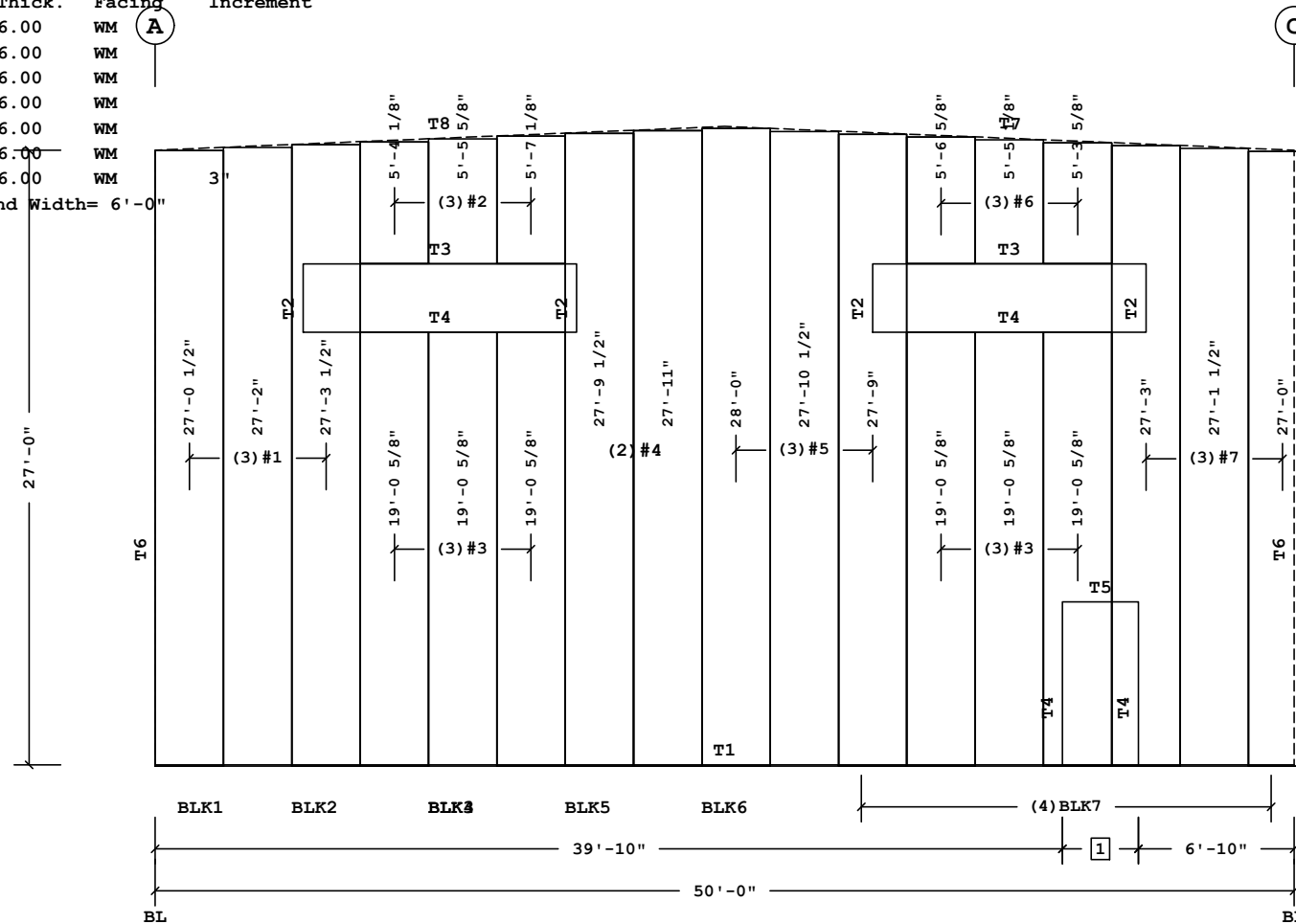
Location =Outside Secondary Structural

Direction =Across Secondary Structural

Type: IB= Fiberglass Blanket

Facing: WM=WMP-50

Shape Name = DYMECH , Wall = 1



1 3'-4"
Dimension Key

Fastener Schedule

Part	Description
0097364-141	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

COVERING ELEVATION AT 1

Planograph Schedule

Id	Details
T1	P-080873, P-081505, P-081612
T2	P-104219
T3	P-104219
T4	
T5	P-104219
T6	P-081612
T7	P-081166, P-104288, P-GAI
T8	P-081166, P-104288, P-GAI

Shape Name = DYMECH , Wall = 1

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			

DYMECH -Covering at 1	
BUILDER:	BBS Construction (Ontario) Ltd.
CUSTOMER:	
LOCATION:	Ottawa, Ontario
PROJECT:	HERITAGE GRADE RESTORATION BLDG
BUILDER'S PO#:	

JOB #:	
DATE:	1/15/2020
DRAWN/CHECK:	1
PAGE:	



Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#8	22	BRP	27'-2"	26	BB	K	WB	Left to Right
#10	1	BRP	19'-11 1/8"	26	DD	K	WB	Left to Right
#11	3	BRP	5'-1 1/8"	26	DD	K	WB	Left to Right
#12	3	BRP	4'-11 3/4"	26	35	K	WB	Left to Right

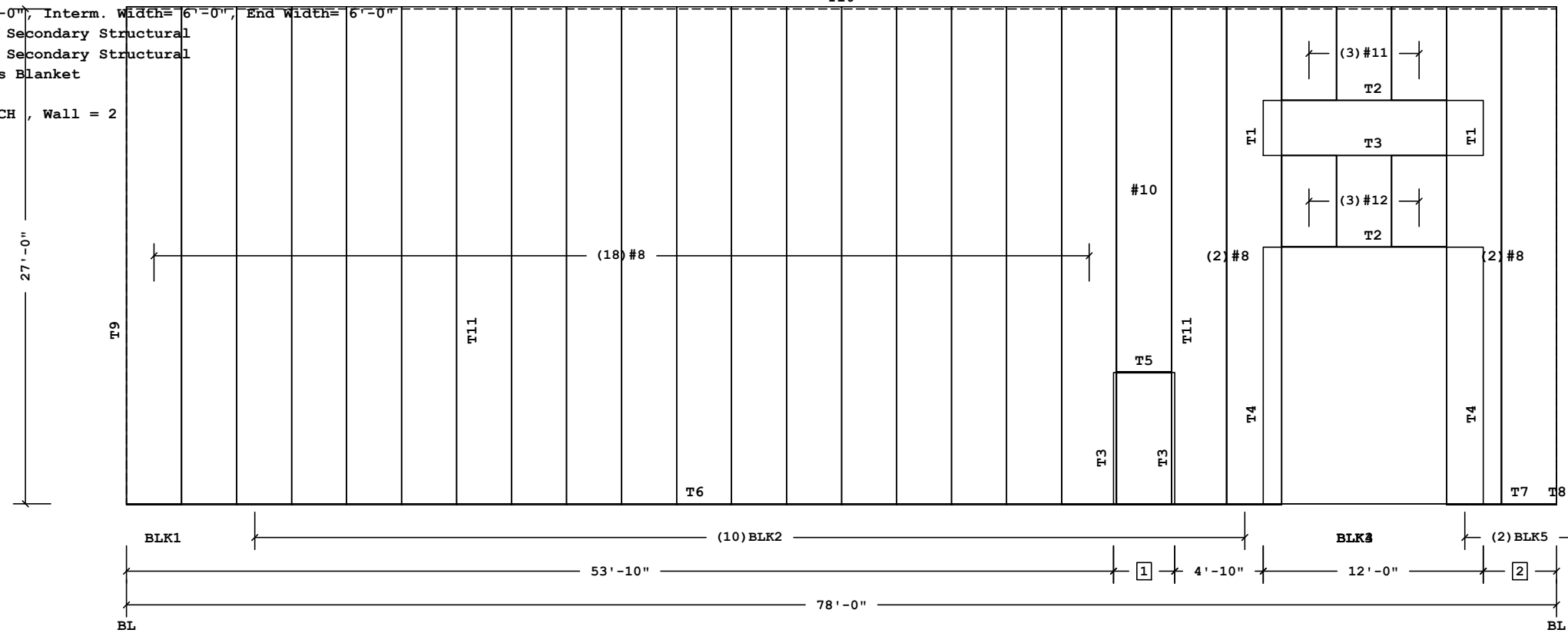
Oper. Code:BB=SQ,NT
 Oper. Code:DD=SQ,NT
 Oper. Code:35=SQ,SQ
 Finish:K=Butler-Cote
 Color:WB=Cool Birch White

Insulation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing	Increment
BLK1	1	IB	28'-0"	28'-0"	6.00	WM	
BLK2	10	IB	28'-0"	28'-0"	6.00	WM	
BLK3	1	IB	6'-0"		6.00	WM	
BLK4	1	IB	5'-0"		6.00	WM	
BLK5	2	IB	28'-0"	28'-0"	6.00	WM	

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:WM=WMP-50
 Shape Name = DYMECH , Wall = 2

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



Fastener Schedule

Part	Description
0097364-141	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

COVERING ELEVATION AT A

Planograph Schedule

Id	Details
T1	P-104219
T2	P-104219
T3	
T4	P-104219
T5	P-104219
T6	P-080873, P-081505, P-081612
T7	P-080873, P-081505, P-081612
T8	P-081505, P-081612
T9	P-081612
T10	P-105224, P-105225, P-105228
T11	P-105224, P-105225, P-105228

Shape Name = DYMECH , Wall = 2

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
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B BUTLER MANUFACTURING
 1540 GENESSEE ST. KANSAS CITY, MO 64102

REV: DATE: BY: DESCRIPTION:

DRAWING SCALE: NTS

BUTLER
 BUTLER MANUFACTURING
 1540 GENESSEE ST. KANSAS CITY, MO 64102

DATE: 1/15/2020
 LOCATION: Ottawa, Ontario
 PROJECT: HERITAGE GRADE RESTORATION BLDG
 BUTLER'S PO#:

BUTLER
 BUTLER MANUFACTURING
 VPC VERSION: ADVNXT 3.7

JOB #:
 DATE: 1/15/2020
 DRAWN/CHECK: /
 PAGE:

Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#13	3	BRP	27'-0 1/2"	26	37	K	WB	1 1/2"	Left to Right
#14	3	BRP	5'-4 1/8"	26	36	K	WB	1 1/2"	Left to Right
#15	6	BRP	19'-0 5/8"	26	78	K	WB		Left to Right
#16	2	BRP	27'-9 1/2"	26	37	K	WB	1 1/2"	Left to Right
#17	3	BRP	28'-0"	26	37	K	WB	-1 1/2"	Left to Right
#18	3	BRP	5'-6 5/8"	26	36	K	WB	-1 1/2"	Left to Right
#19	3	BRP	27'-3"	26	37	K	WB	-1 1/2"	Left to Right

Oper. Code:37=SQ,SQ

Oper. Code:36=SQ,SQ

Oper. Code:78=SQ,SQ

Installation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing	Increment
BLK1	1	IB	28'-6"		6.00	WM	
BLK2	1	IB	28'-6"		6.00	WM	
BLK3	1	IB	7'-0"		6.00	WM	
BLK4	1	IB	19'-0"		6.00	WM	
BLK5	1	IB	29'-0"		6.00	WM	
BLK6	1	IB	29'-6"		6.00	WM	
BLK7	4	IB	29'-0"	28'-6"	6.00	WM	

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

Location =Outside Secondary Structural

Direction =Across Secondary Structural

Type:IB=Fiberglass Blanket

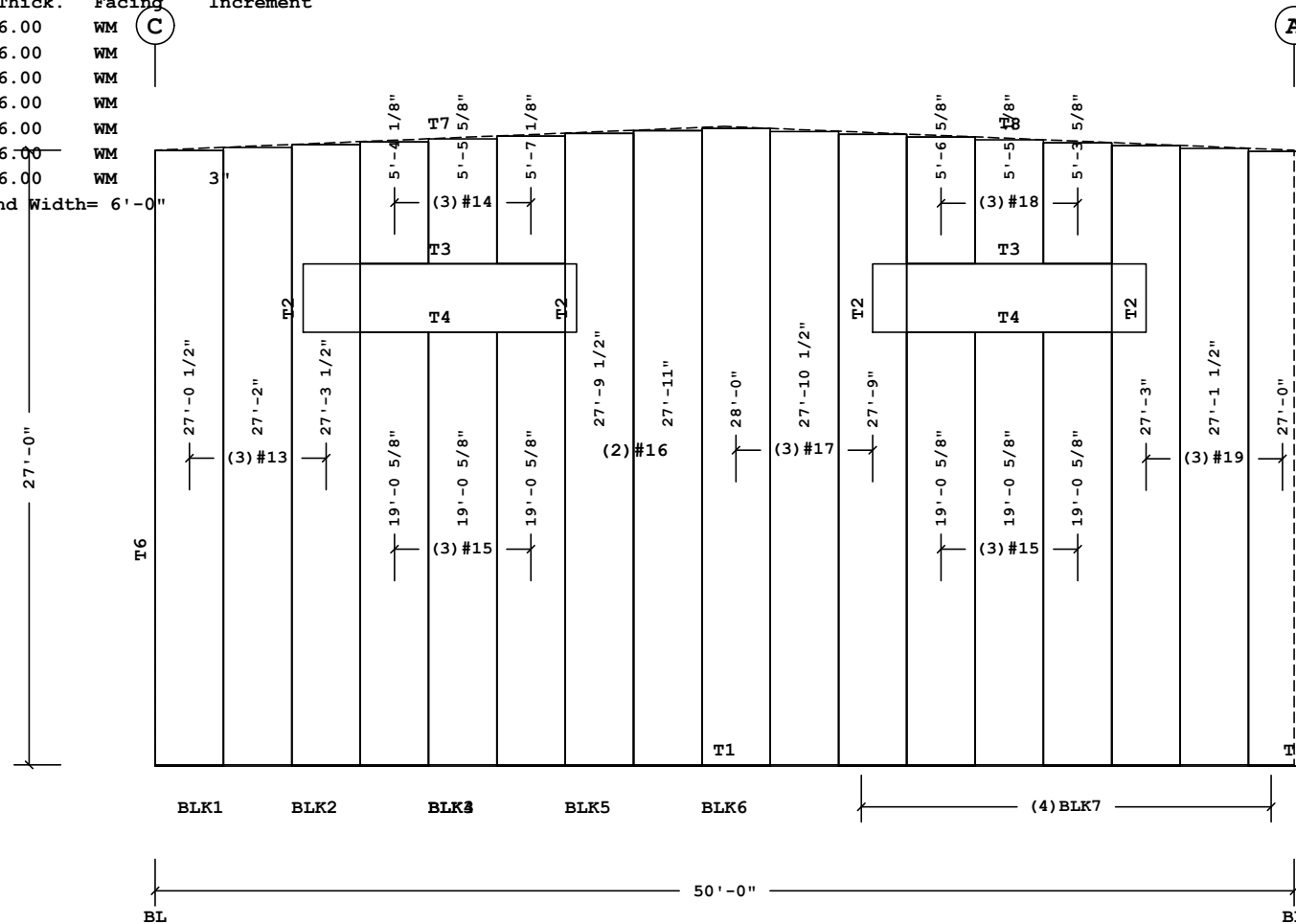
Facing:WM=WMP-50

Shape Name = DYMECH , Wall = 3

Trim Schedule

Id	Parts
T1	(2)BA225, (4.2)BT12A
T2	(0.5)DSF12
T3	DG12
T4	DSF12
T5	CTB2L,CTB2R
T6	(3)BRCT12
T7	(2.1)BRCL12, (2.5)WA10A, (1.2)BRGT20L
T8	(2.1)BRCL12, (2.5)WA10A, (1.2)BRGT20R

Color	Details
Match Wall Color	ENB003,GV383,NV663,WCB036,WCB038
Match Wall Color	NV539
Match Wall Color	NV537
Match Wall Color	NV538
Match Wall Color	ENB003,NV663,WCB036,WCB038
Match Wall Color	WCB037,WCB040
Cool Birch White	KV357,KV358,PV166,WCB043,WCB044
Cool Birch White	KV357,KV358,PV166,WCB043,WCB044



Fastener Schedule

Part	Description
0097364-141	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

COVERING ELEVATION AT 5

Planograph Schedule

Id	Details
T1	P-080873,P-081505,P-081612
T2	P-104219
T3	P-104219
T4	
T5	P-081505,P-081612
T6	P-081612
T7	P-081166,P-104288,P-GAI
T8	P-081166,P-104288,P-GAI

Shape Name = DYMECH , Wall = 3

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

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

DYMECH -Covering at 5	
BUILDER:	BBS Construction (Ontario) Ltd.
CUSTOMER:	
LOCATION:	Ottawa, Ontario
PROJECT:	HERITAGE GRADE RESTORATION BLDG
BUILDER'S PO#:	

	JOB #:
	DATE: 1/15/2020
	DRAWN/CHECK: /
	PAGE:
Butler Manufacturing VPC VERSION: ADVNXT 3.7	

Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#20	13	BRP	27'-2"	26	BB	K	WB	Left to Right
#21	12	BRP	4'-11 3/4"	26	35	K	WB	Left to Right
#22	12	BRP	5'-1 1/8"	26	DD	K	WB	Left to Right
#23	1	BRP	19'-11 1/8"	26	DD	K	WB	Left to Right

Oper. Code:BB=SQ,NT
 Oper. Code:35=SQ,SQ
 Oper. Code:DD=SQ,NT
 Finish:K=Butler-Cote
 Color:WB=Cool Birch White

Trim Schedule

Id	Parts	Color	Details
T1	(0.5)DSF12	Match Wall Color	NV539
T2	DG12	Match Wall Color	NV537
T3	DSF12	Match Wall Color	NV538,NV539
T4	(1.5)DSF12	Match Wall Color	NV539
T5	(0.5)DG12	Match Wall Color	NV537
T6	(0.1)BA225, (0.3)BT12A	Match Wall Color	ENB003, GV383, NV663, WCB036, WCB038
T7	(0.2)BA225, (0.4)BT12A	Match Wall Color	ENB003, GV383, NV663, WCB036, WCB038
T8	(0.4)BA225, (0.7)BT12A	Match Wall Color	ENB003, GV383, NV663, WCB036, WCB038
T9	(0.2)BA225, (0.3)BT12A	Match Wall Color	ENB003, GV383, NV663, WCB036, WCB038
T10	CTB2L, CTB2R	Match Wall Color	ENB003, NV663, WCB036, WCB038
T11	(3.5)GTR25	Cool Birch White	MV090, WCB028, WCB045
T12	0008738, (2)4CE45, (3)CP410, 4CE75	Match Wall Color	KV846

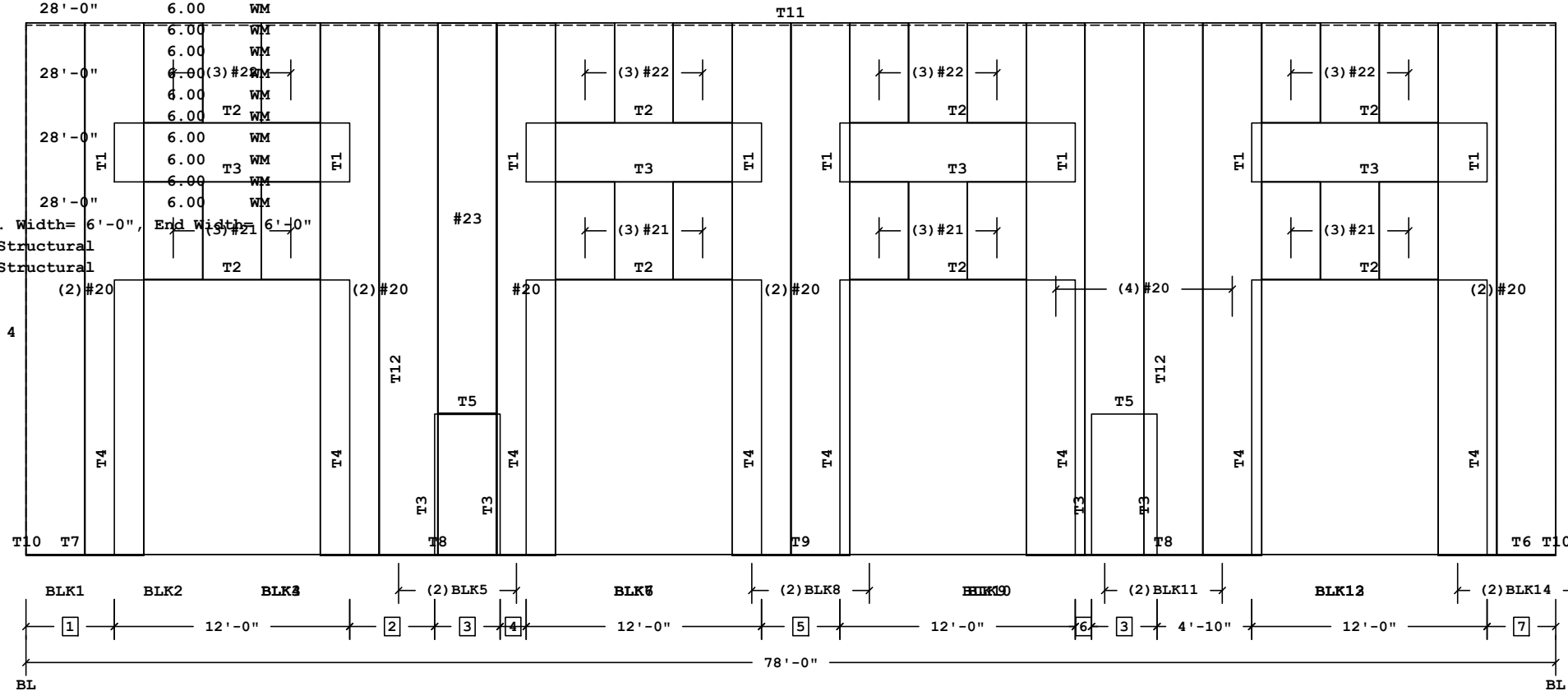
Insulation Schedule (Install in same direction as Covering)

Id	Qty	Type	Start Run	Last Run	Thick.	Facing	Increment
BLK1	1	IB	28'-0"		6.00	WM	
BLK2	1	IB	28'-0"		6.00	WM	
BLK3	1	IB	6'-0"		6.00	WM	
BLK4	1	IB	5'-0"		6.00	WM	
BLK5	2	IB	28'-0"	28'-0"	6.00	WM	
BLK6	1	IB	5'-0"		6.00	WM	
BLK7	1	IB	6'-0"		6.00	WM	
BLK8	2	IB	28'-0"	28'-0"	6.00	WM	
BLK9	1	IB	6'-0"		6.00	WM	
BLK10	1	IB	5'-0"		6.00	WM	
BLK11	2	IB	28'-0"	28'-0"	6.00	WM	
BLK12	1	IB	5'-0"		6.00	WM	
BLK13	1	IB	6'-0"		6.00	WM	
BLK14	2	IB	28'-0"	28'-0"	6.00	WM	

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:WM=WMP-50
 Shape Name = DYMECH, Wall = 4

7 3'-6"
 6 10"
 5 4'-0"
 4 1'-4"
 3 3'-4"
 2 4'-4"
 1 4'-6"

Dimension Key



Fastener Schedule

Part	Description
0097364-141	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Planograph Schedule

Id	Details
T1	P-104219
T2	P-104219
T3	
T4	P-104219
T5	P-104219
T6	P-080873, P-081505, P-081612
T7	P-080873, P-081505, P-081612
T8	P-080873, P-081505, P-081612
T9	P-080873, P-081505, P-081612
T10	
T11	P-080873, P-080948, P-081242, P-103223, P-103315, P-104288, P-104550
T12	P-105224, P-105225, P-105228

COVERING ELEVATION AT C

Shape Name = DYMECH, Wall = 4

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.

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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THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

<p>B BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102</p>		REV:	DATE:	BY:	DESCRIPTION:
		<p>DRAWING SCALE: NTS</p>			
<p>DATE: 1/15/2020 DRAWN/CHECK: / BUTLER Butler Manufacturing VPC VERSION: ADVNXT 3.7</p>					