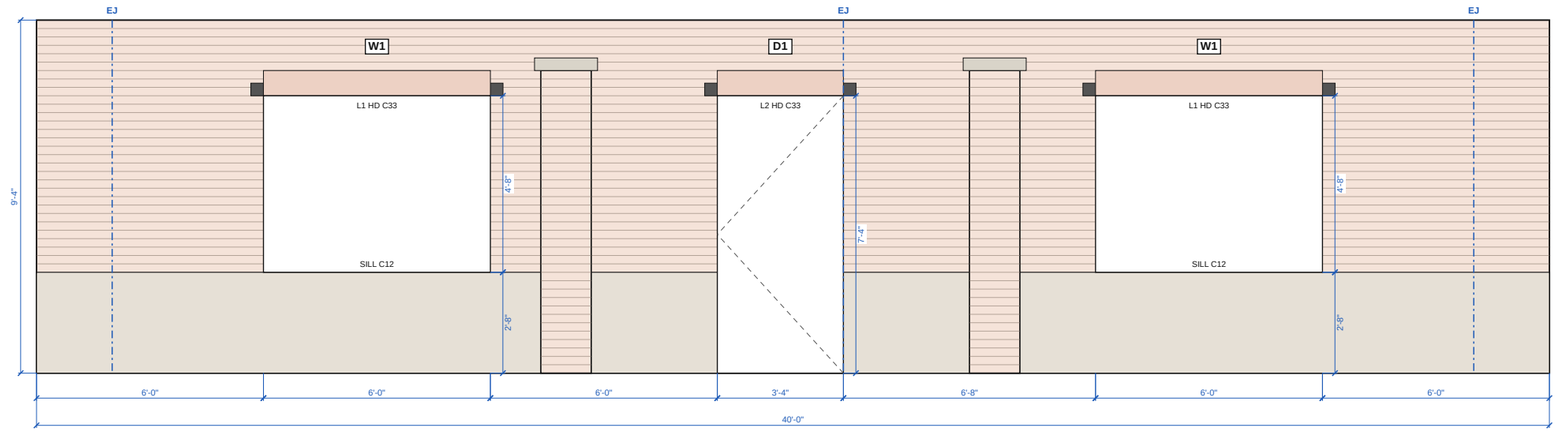
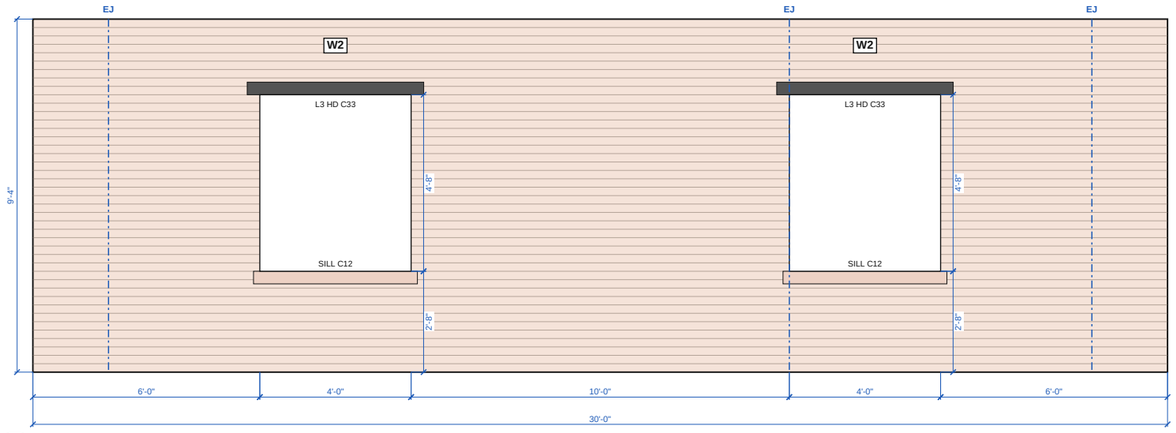


1 WALL 1 (SOUTH, FRONT), 3 COURSES = 8"

SCALE: 1/4" = 1'-0"



2 WALL 2 (EAST), 3 COURSES = 8"

SCALE: 1/4" = 1'-0"

PREPARED BY

PROJECT

Sample House, brick and stone
front
Client: Sample Homeowner

NOTICE

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REVISIONS

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11/11/2026

SCALE
1/4" = 1'-0"

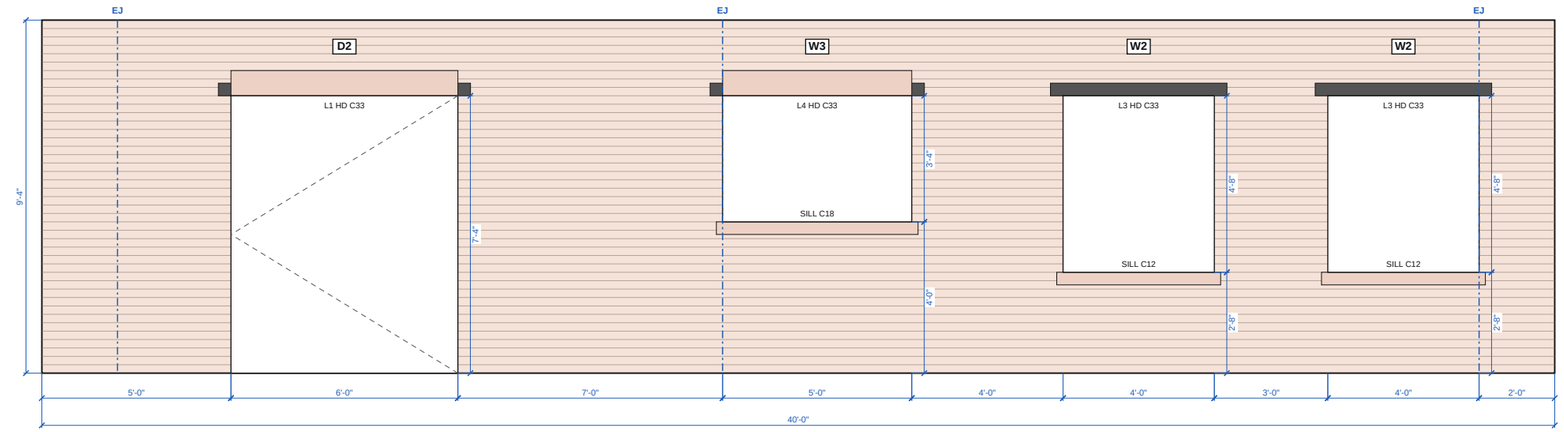
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SHEET SIZE
ANSI B (11" x 17")

SHEET TITLE
WALL ELEVATIONS AND COURSING

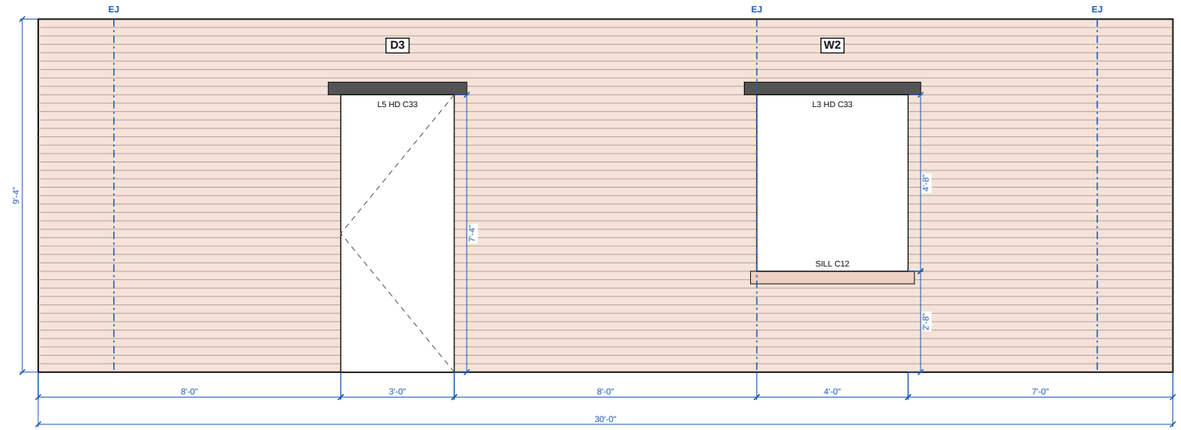
A4-1

SHEET 1 OF 7



1 WALL 3 (NORTH, BACK), 3 COURSES = 8"

SCALE: 1/4" = 1'-0"



2 WALL 4 (WEST, GARAGE SIDE), 3 COURSES = 8"

SCALE: 1/4" = 1'-0"

PREPARED BY

PROJECT

Sample House, brick and stone
front
Client: Sample Homeowner

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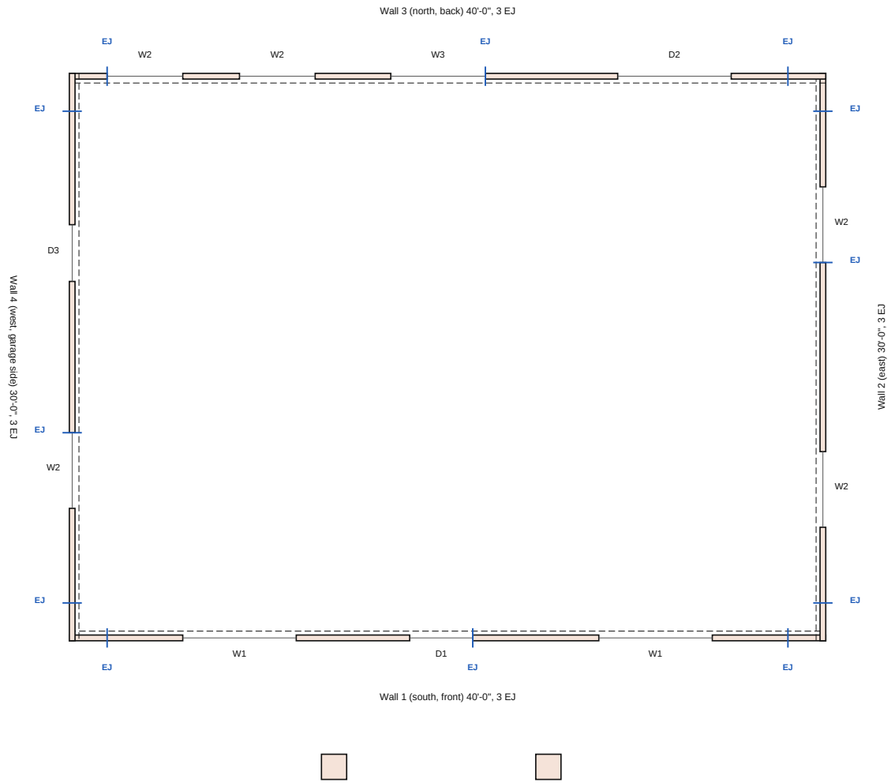
SCALE
1/4" = 1'-0"

DRAWN BY

SHEET SIZE
ANSI B (11" x 17")

SHEET TITLE
WALL ELEVATIONS AND COURSING

A4-2



1 PLAN: WALLS, PIERS AND MOVEMENT JOINTS

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

PREPARED BY

PROJECT

Sample House, brick and stone
front
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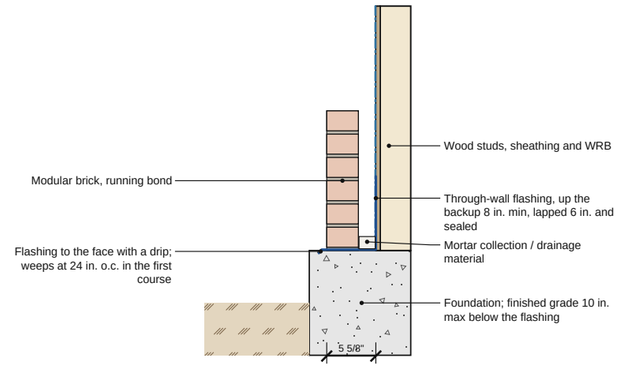
SCALE
1/8" = 1'-0"

DRAWN BY

SHEET SIZE
ANSI B (11" x 17")

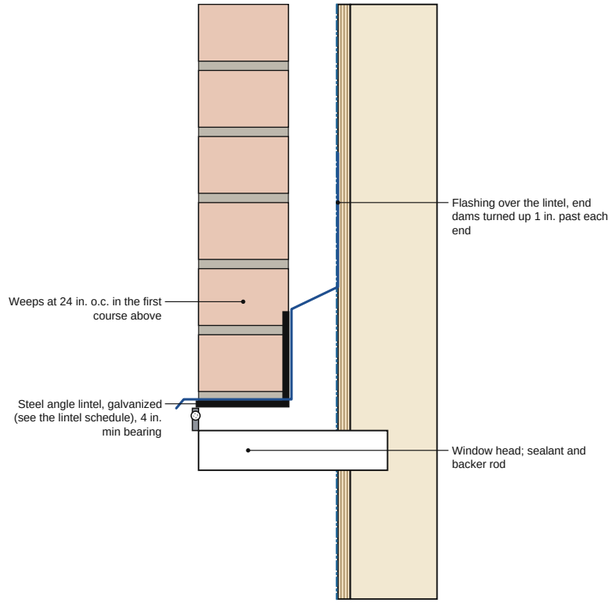
SHEET TITLE
PLAN AND MOVEMENT JOINTS

A4-3



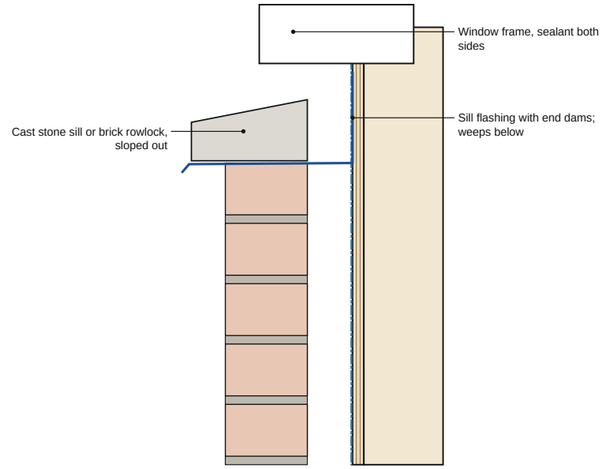
1 **VENEER BASE: WT1** NTS

REF: IBC 2021 1404.4.2; BIA TN 7; BIA TN 28D



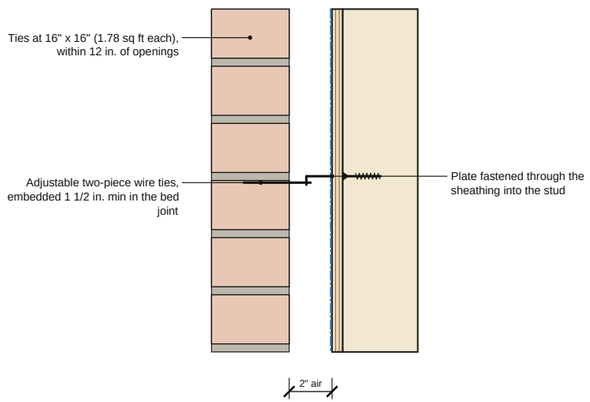
2 **HEAD AT A STEEL ANGLE LINTEL: WT1** NTS

REF: IBC 2021 1404.4.2; BIA TN 7; BIA TN 28D; IRC 2018 R703.8.3



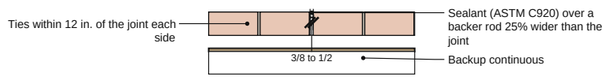
3 **SILL: WT1** NTS

REF: IBC 2021 1404.4.2; BIA TN 7; BIA TN 28D



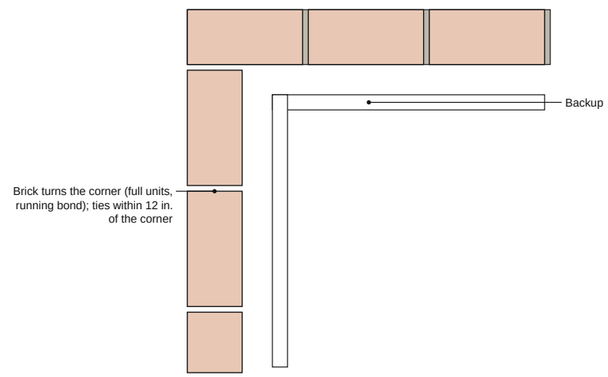
4 **VENEER TIE: WT1** NTS

REF: BIA TN 28D; BIA TN 28A



5 **EXPANSION JOINT IN THE BRICK (PLAN): WT1** NTS

REF: BIA TN 18A



6 **OUTSIDE CORNER (PLAN): WT1** NTS

REF: BIA TN 28D

Typical detail, not to scale. Not an engineered design: verify with your building department and the manufacturer's installation instructions.

PREPARED BY

PROJECT

Sample House, brick and stone
front
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SHEET SIZE
ANSI B (11" x 17")

SHEET TITLE
SECTIONS AND DETAILS

A4-4

UNIT, LINTEL, OPENING AND ACCESSORY SCHEDULES

UNIT	NET	ORDER (WASTE)	OF IT SPECIALS	WALLS
Modular brick (4 x 2 2/3 x 8)	7005	7356	-	Wall 1 (south, front), Wall 2 (east), Wall 3 (north, back), Wall 4 (west, garage side)
Stone water table / bands, anchored	98 sf	108 sf	-	Wall 1 (south, front)

LINTEL SCHEDULE

TAG	TYPE	SIZE	SPAN	BEARING	LENGTH	QTY	OPENINGS
L1	Steel angle	L3 x 3 x 1/4	6'-0"	4"	6'-8"	3	W1, D2
L2	Steel angle	L3 x 3 x 1/4	3'-4"	4"	4'-0"	1	D1
L3	Steel angle	L3 x 3 x 1/4	4'-0"	4"	4'-8"	5	W2
L4	Steel angle	L3 x 3 x 1/4	5'-0"	4"	5'-8"	1	W3
L5	Steel angle	L3 x 3 x 1/4	3'-0"	4"	3'-8"	1	D3

OPENING SCHEDULE (COURSE NUMBERS FROM THE BOTTOM OF THE MASONRY)

TAG	QTY	TYPE	WALL	MASONRY OPENING	SILL	SILL COURSE	HEAD COURSE	LINTEL
W1	2	Window	Wall 1 (south, front)	6'-0" x 4'-8"	2'-8"	C12	C33	L1
D1	1	Door	Wall 1 (south, front)	3'-4" x 7'-4"	0"	C0	C33	L2
W2	2	Window	Wall 2 (east)	4'-0" x 4'-8"	2'-8"	C12	C33	L3
D2	1	Door	Wall 3 (north, back)	6'-0" x 7'-4"	0"	C0	C33	L1
W3	1	Window	Wall 3 (north, back)	5'-0" x 3'-4"	4'-0"	C18	C33	L4
W2	2	Window	Wall 3 (north, back)	4'-0" x 4'-8"	2'-8"	C12	C33	L3
D3	1	Door	Wall 4 (west, garage side)	3'-0" x 7'-4"	0"	C0	C33	L5
W2	1	Window	Wall 4 (west, garage side)	4'-0" x 4'-8"	2'-8"	C12	C33	L3

ACCESSORIES

ACCESSORY	WHAT	QUANTITY
Veneer ties	Adjustable two-piece wire ties	692 each
Stone ties	0.1055 in. wire, one per 2 sf	49 each
Through-wall flashing	base, heads, sills	234 LF, 38 end dams
Weeps	24 in. o.c.	102 each
Mortar collection / drainage	base and shelf angles	127.7 LF
Movement joints	12 joints, sealant and backer rod	112 LF
Mortar Type N	with waste	68.1 cu ft

PREPARED BY

PROJECT

Sample House, brick and stone
front
Client: Sample Homeowner

NOTICE

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DRAWN BY

SHEET SIZE
ANSI B (11" x 17")

SHEET TITLE
SCHEDULES

A4-5

BUY LIST (GENERIC PRODUCTS AT THE CONTRACTOR'S PRICES; INSTALL HOURS)

GROUP	ITEM	QTY	EACH	MATERIAL	HOURS
Units by type	Modular brick (4 x 2 2/3 x 8) (with 5% waste)	7356 each	$1	$6,253	230.2
Units by type	Cut units at jambs, joints and headers (labor)	765 each	$0	$0	23
Units by type	Corners, returns and piers (labor, per course)	624 each	$0	$0	49.9
Units by type	Soldier, rowlock and band courses (labor)	58.7 LF	$0	$0	7
Units by type	Clean masonry (detergent, bucket and brush; per the unit maker)	1038 sf	$0	$125	8.3
Mortar	Masonry cement, Type N (68.1 cu ft of mortar, 2.52 CY, 20% waste)	23 bag	$14	$322	0
Mortar	Mortar sand	2.72 ton	$38	$103	0
Bond beams & lintels	L1 steel angle lintel L3 x 3 x 1/4, 6'-8" long (4" bearing each end), galvanized	20 LF	$9	$180	5
Bond beams & lintels	L2 steel angle lintel L3 x 3 x 1/4, 4'-0" long (4" bearing each end), galvanized	4 LF	$9	$36	1
Bond beams & lintels	L3 steel angle lintel L3 x 3 x 1/4, 4'-8" long (4" bearing each end), galvanized	23.3 LF	$9	$210	5.8
Bond beams & lintels	L4 steel angle lintel L3 x 3 x 1/4, 5'-8" long (4" bearing each end), galvanized	5.7 LF	$9	$51	1.4
Bond beams & lintels	L5 steel angle lintel L3 x 3 x 1/4, 3'-8" long (4" bearing each end), galvanized	3.7 LF	$9	$33	0.9
Ties & anchors	Adjustable two-piece wire ties (by the spacing typed, plus ties within 12 in. of openings)	692 each	$1	$588	13.8
Ties & anchors	Stone ties, 0.1055 in. corrosion-resistant wire (one per 2 sf of stone)	49 each	$2	$78	2
Flashing & weeps	Through-wall flashing (base 128, heads 64, sills 42 LF; 6 in. sealed laps)	245.7 LF	$3	$786	9.4
Flashing & weeps	End dams (turned up 1 in.)	38 each	$6	$228	3
Flashing & weeps	Weeps at 24 in. o.c. above every flashing	102 each	$0	$46	1
Flashing & weeps	Mortar collection / drainage material at the base and shelf angles	127.7 LF	$2	$306	2.6
Joints & sealant	Sealant (ASTM C920) at 12 movement joints	112 LF	$2	$179	4.5
Joints & sealant	Backer rod (25% over the joint width)	112 LF	$0	$22	0
Cast stone	Cast stone caps and copings (36.7 LF)	36.7 LF	$42	$1,541	18.3
Cast stone	Cast stone column caps	2 each	$160	$320	3
Stone veneer	Stone water table / stone bands, anchored (10% waste)	108 sf	$18	$1,944	31.3
Scaffold	Frame scaffold, Wall 1 (south, front) (373 sf of face, 1 month)	373 sf-mo	$0	$67	5.6
Scaffold	Frame scaffold, Wall 2 (east) (280 sf of face, 1 month)	280 sf-mo	$0	$50	4.2
Scaffold	Frame scaffold, Wall 3 (north, back) (373 sf of face, 1 month)	373 sf-mo	$0	$67	5.6
Scaffold	Frame scaffold, Wall 4 (west, garage side) (280 sf of face, 1 month)	280 sf-mo	$0	$50	4.2
Weather protection	Heat mortar materials (days below 40 F)	6 day	$120	$720	6
Weather protection	Weather-resistive covers, 24 h (days 40 to 25 F)	778 sf	$0	$62	0
Equipment	Mortar mixer	8 day	$85	$680	0
TOTAL	Priced from the itemized takeoff			$15,050	447.1

PREPARED BY

PROJECT

Sample House, brick and stone
front
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SHEET SIZE
ANSI B (11" x 17")

SHEET TITLE
BUY LIST

A4-6

CHECKS AND NOTES

RESULT	WHAT	CHECK	SOURCE
CHECKS AND FLAGS, NOT AN ENGINEERED DESIGN			
NOTE	Cold weather	6 days 40 to 25 F: heat mixing water or sand for mortar between 40 and 120 F (not over 140 F), grout over 70 F below 32 F; cover new masonry with a weather-resistive membrane for 24 h.	BIA TN 1 (TMS 602-16 1.8 C, 1.8 D); IBC 2021 2104.1
OK	Wall 1 (south, front)	Ties at 16" x 16" (1.78 sq ft per tie, prescriptive (2.67 sq ft, 32 in. horizontal, 25 in. vertical) limit 2.67); ties within 12 in. of openings over 16 in. (3 ft max o.c.) and of joints are counted.	TMS 402-16 12.2.2.5 (BIA TN 28D); IBC 2021 1404.6
OK	Wall 1 (south, front)	Air space 2", cavity 2" (4 5/8 in. max with W1.7 ties).	TMS 402-16 12.2.2.5 (BIA TN 28D); BIA TN 7
OK	Wall 1 (south, front)	Flashing and weeps at the base, 3 heads and the sills; end dams turned up 1 in.	IBC 2021 1404.4.2; BIA TN 7
OK	Wall 1 (south, front)	3 expansion joints (placed by the rules), panels up to 19'-4" (20 ft with openings max).	BIA TN 18A
OK	Wall 1 (south, front)	Opening sills and heads on course (3 courses = 8").	BIA TN 10
OK	Wall 1 (south, front)	3 lintels with 4" bearing (veneer angles sized by IRC Table R703.8.3.1).	IRC 2018 R703.8.3
OK	Wall 2 (east)	Ties at 16" x 16" (1.78 sq ft per tie, prescriptive (2.67 sq ft, 32 in. horizontal, 25 in. vertical) limit 2.67); ties within 12 in. of openings over 16 in. (3 ft max o.c.) and of joints are counted.	TMS 402-16 12.2.2.5 (BIA TN 28D); IBC 2021 1404.6
OK	Wall 2 (east)	Air space 2", cavity 2" (4 5/8 in. max with W1.7 ties).	TMS 402-16 12.2.2.5 (BIA TN 28D); BIA TN 7
OK	Wall 2 (east)	Flashing and weeps at the base, 2 heads and the sills; end dams turned up 1 in.	IBC 2021 1404.4.2; BIA TN 7
OK	Wall 2 (east)	3 expansion joints (placed by the rules), panels up to 18'-0" (20 ft with openings max).	BIA TN 18A
OK	Wall 2 (east)	Opening sills and heads on course (3 courses = 8").	BIA TN 10
OK	Wall 2 (east)	2 lintels with 4" bearing (veneer angles sized by IRC Table R703.8.3.1).	IRC 2018 R703.8.3
OK	Wall 3 (north, back)	Ties at 16" x 16" (1.78 sq ft per tie, prescriptive (2.67 sq ft, 32 in. horizontal, 25 in. vertical) limit 2.67); ties within 12 in. of openings over 16 in. (3 ft max o.c.) and of joints are counted.	TMS 402-16 12.2.2.5 (BIA TN 28D); IBC 2021 1404.6
OK	Wall 3 (north, back)	Air space 2", cavity 2" (4 5/8 in. max with W1.7 ties).	TMS 402-16 12.2.2.5 (BIA TN 28D); BIA TN 7
OK	Wall 3 (north, back)	Flashing and weeps at the base, 4 heads and the sills; end dams turned up 1 in.	IBC 2021 1404.4.2; BIA TN 7
OK	Wall 3 (north, back)	3 expansion joints (placed by the rules), panels up to 20'-0" (20 ft with openings max).	BIA TN 18A
OK	Wall 3 (north, back)	Opening sills and heads on course (3 courses = 8").	BIA TN 10
OK	Wall 3 (north, back)	4 lintels with 4" bearing (veneer angles sized by IRC Table R703.8.3.1).	IRC 2018 R703.8.3
OK	Wall 4 (west, garage side)	Ties at 16" x 16" (1.78 sq ft per tie, prescriptive (2.67 sq ft, 32 in. horizontal, 25 in. vertical) limit 2.67); ties within 12 in. of openings over 16 in. (3 ft max o.c.) and of joints are counted.	TMS 402-16 12.2.2.5 (BIA TN 28D); IBC 2021 1404.6
OK	Wall 4 (west, garage side)	Air space 2", cavity 2" (4 5/8 in. max with W1.7 ties).	TMS 402-16 12.2.2.5 (BIA TN 28D); BIA TN 7
OK	Wall 4 (west, garage side)	Flashing and weeps at the base, 2 heads and the sills; end dams turned up 1 in.	IBC 2021 1404.4.2; BIA TN 7
OK	Wall 4 (west, garage side)	3 expansion joints (placed by the rules), panels up to 17'-0" (20 ft with openings max).	BIA TN 18A
OK	Wall 4 (west, garage side)	Opening sills and heads on course (3 courses = 8").	BIA TN 10
OK	Wall 4 (west, garage side)	2 lintels with 4" bearing (veneer angles sized by IRC Table R703.8.3.1).	IRC 2018 R703.8.3
OK	Weeps	Weeps at 24 in. o.c. above every flashing.	BIA TN 3C; BIA TN 7

GENERAL NOTES

NO.	NOTE
1	Verify all dimensions, openings and floor lines in the field before ordering. Coursing as shown: report openings off course before laying.
2	Generic units and accessories at the contractor's entries: install per the makers' instructions and the project manual.
3	Mortar per ASTM C270 / TMS 602 (Type N as listed); grout per TMS 602 2.2; adhered veneer mortar Type N or S (IBC 2103.2.4).
4	Through-wall flashing with end dams and weeps at every base, head, sill and shelf angle (IBC 1404.4.2, BIA TN 7); weeps at 24 in. o.c.
5	Veneer ties at the spacing scheduled, within 12 in. of openings over 16 in. (3 ft max o.c.) and of movement joints (TMS 402-16 as summarized in BIA TN 28D).
6	Movement joints as shown (NCMA TEK 10-2C, BIA TN 18A): joint reinforcement stops at control joints; sealant and backer rod.
7	Reinforcing, bond beams, lintels and shelf angles as drawn, per the structural drawings: the quantities here count them, they do not design them.
8	Cold and hot weather construction and protection per TMS 602 (BIA TN 1).
9	These are checks and a layout, not an engineered design: the engineer, the building department and the project documents govern.

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SHEET TITLE
CHECKS AND NOTES

A4-7