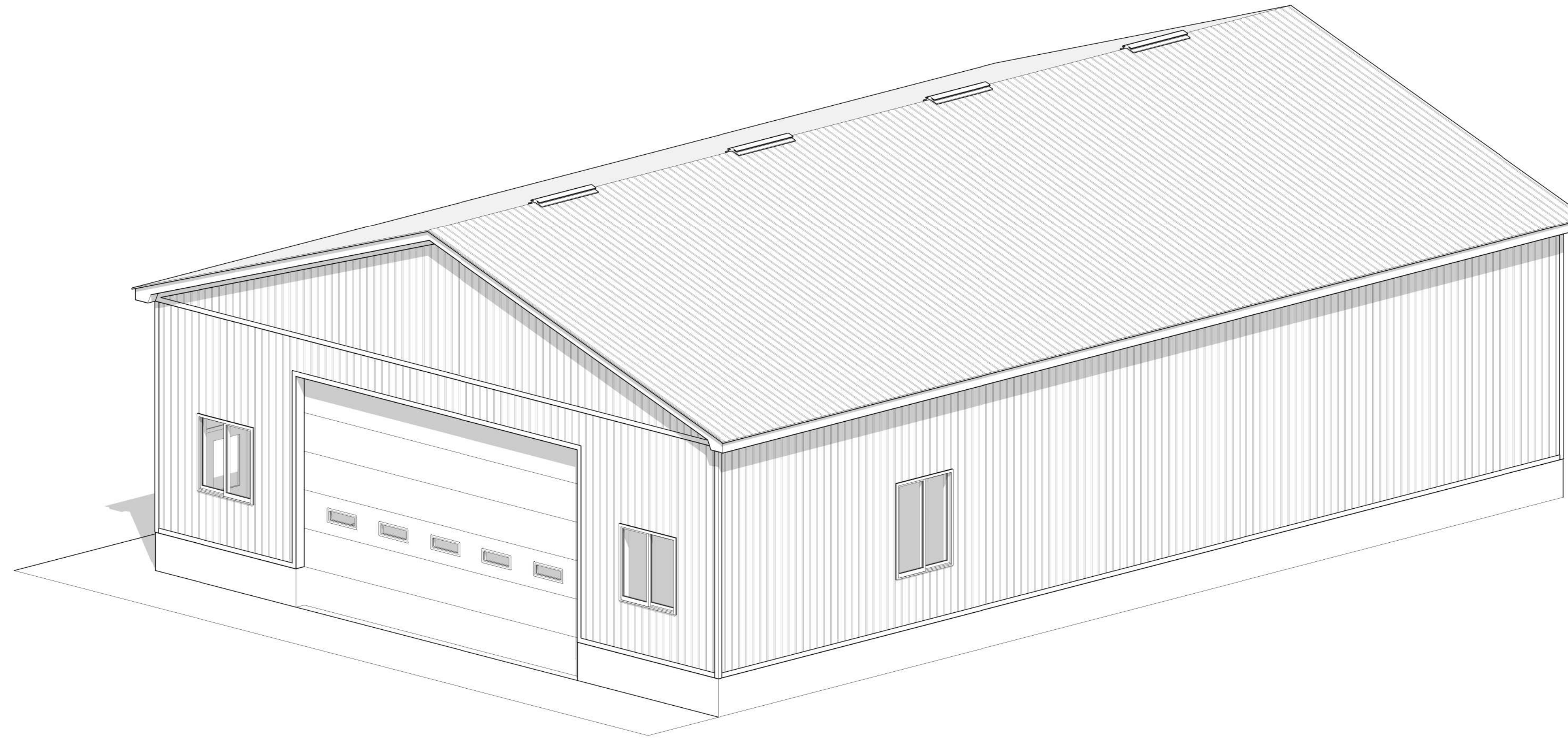


TONY HENDRIKX RESIDENTIAL ACCESSORY BUILDING GRAND BEND, ON



DRAWINGS

- S-0 TITLE SHEET
- S-1 ELEVATIONS
- S-2 FOUNDATION PLAN - SECTIONS & DETAILS
- S-3 GROUND FLOOR PLAN - SECTIONS & DETAILS
- S-4 ROOF FRAMING PLAN - SECTION DETAILS
- S-5 SECTIONS & DETAILS
- S-6 GENERAL NOTES - SITE LOCATION PLAN

NOTES:	NORTH	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DESIGN</th> <th>TVG</th> <th>No.</th> <th>REVISION DESCRIPTION</th> <th>MM/DD/YY</th> <th>CHKD</th> </tr> </thead> <tbody> <tr> <td>DRAWN</td> <td>TVG</td> <td>1.</td> <td>PRELIMINARY - FOR DISCUSSION ONLY</td> <td>11/22/23</td> <td>MR</td> </tr> <tr> <td>CHECKED</td> <td>MR</td> <td>2.</td> <td>ISSUED FOR MINOR VARIANCE</td> <td>05/16/24</td> <td>MR</td> </tr> <tr> <td>APPROVED</td> <td>MR</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DATE</td> <td colspan="5">MAY 2024</td> </tr> </tbody> </table>	DESIGN	TVG	No.	REVISION DESCRIPTION	MM/DD/YY	CHKD	DRAWN	TVG	1.	PRELIMINARY - FOR DISCUSSION ONLY	11/22/23	MR	CHECKED	MR	2.	ISSUED FOR MINOR VARIANCE	05/16/24	MR	APPROVED	MR					DATE	MAY 2024					<p style="font-size: small; margin: 0;">CONSULTANT</p>  <p style="font-size: x-small; margin: 0;">ENGINEERING AND DESIGN LTD. <small>CIVIL • COMMERCIAL • AGRICULTURAL</small></p> <p style="font-size: x-small; margin: 0;">145 Thames Road, West, Unit 4, Exeter, ON, N0M 1S3 Telephone: (519)-317-0126 Email: admin@mrdesign.com</p>	<p style="font-size: x-small; margin: 0;">CONTRACTOR</p>  <p style="font-size: x-small; margin: 0;">DESIGN & BUILD</p>	<p style="font-size: x-small; margin: 0;">10098 KLONDYKE ROAD GRAND BEND, ON N0M 1T0</p>	<p style="font-size: x-small; margin: 0;">PROJECT No. MR23-435</p> <hr/> <p style="font-size: x-small; margin: 0;">SHEET No. S-0</p> <hr/> <p style="font-size: x-small; margin: 0;">SCALE</p>
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						<p style="font-size: x-small; margin: 0;">TONY HENDRIKX RESIDENTIAL ACCESSORY BUILDING</p> <hr/> <p style="font-size: x-small; margin: 0;">TITLE SHEET</p>																														

NOTE:

- ALL ROOF SLOPES TO BE 4/12 UNLESS NOTED OTHERWISE.
- EXTERIOR CLADDING SHOWN IS REPRESENTATIONAL ONLY. ACTUAL EXTERIOR CLADDING MAY DIFFER THAN WHAT IS SHOWN.
- ALL WALLS TO BEAR ONTO 20" WIDE x 8" THICK CONCRETE STRIP FOOTING REINFORCED WITH 2-1M CONTINUOUS. PROVIDE 30" V x 6" H 15M DOWELS @ 48" o/c (F1) UNLESS NOTED OTHERWISE. REFER TO SECTIONS FOR DETAILS.
- PROVIDE 48" (min.) FROST PROTECTION TO ALL EXTERIOR FOUNDATION WALLS.
- CONTRACTOR TO CONFIRM ROUGH OPENINGS PRIOR TO CONSTRUCTION.
- ALL EXTERIOR DOORS TO BE INSULATED TO THE SATISFACTION OF THE OWNER.
- ALL OVERHEAD DOORS TO BE INSULATED TO THE SATISFACTION OF THE OWNER.

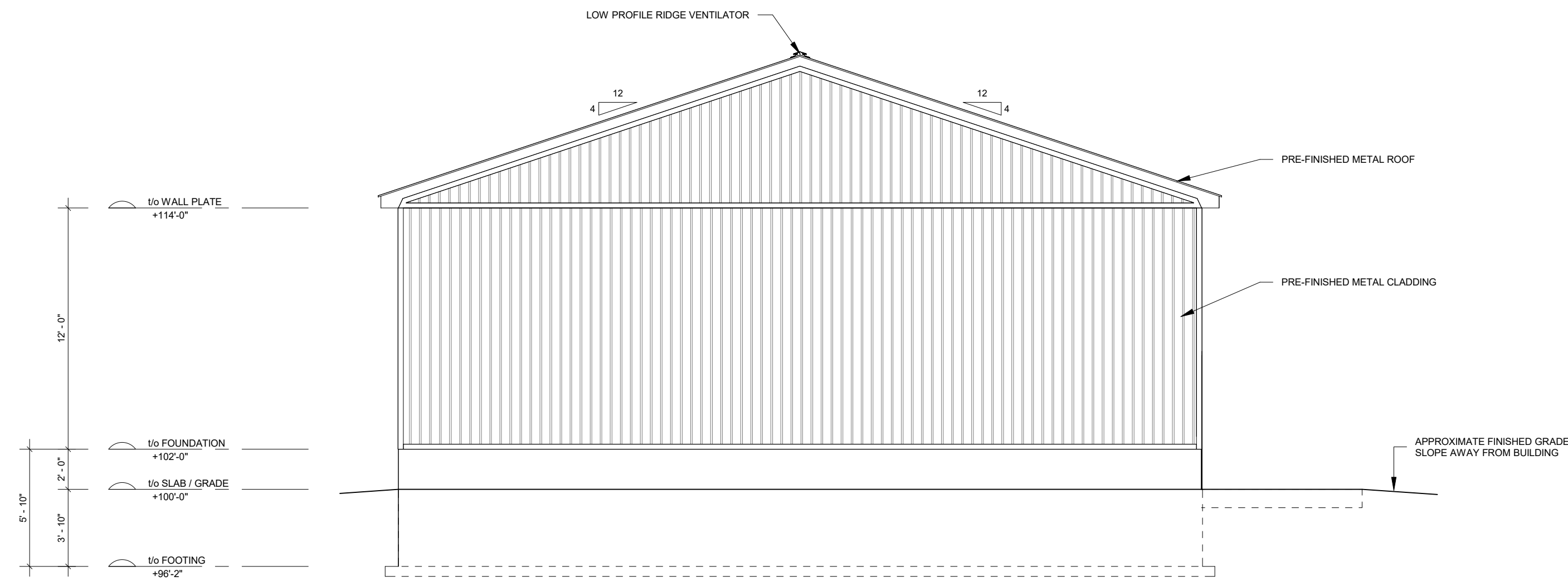
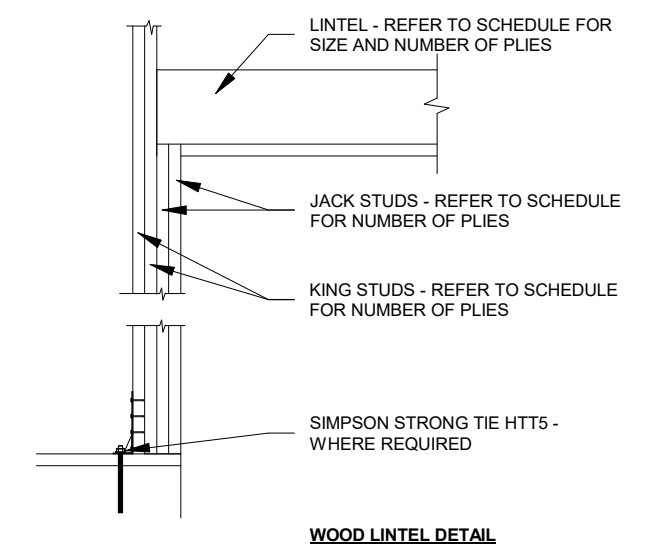
DOOR SCHEDULE							
TAG	DESCRIPTION	ROUGH WIDTH	ROUGH HEIGHT	HEAD HEIGHT	LINTEL	BEARING	COMMENTS
D-1	36"W x 80"H EXTERIOR DOOR - WITH WINDOW - WITH THRESHOLD	38 1/2"	82 1/2"	82 1/2"	2-PLY 2x6 SPF No.1No.2	1 JACK STUD / 1 KING STUD	

OVERHEAD DOOR SCHEDULE							
TAG	DESCRIPTION	ROUGH WIDTH	ROUGH HEIGHT	HEAD HEIGHT	LINTEL	BEARING	COMMENTS
OHD-1	20'-0"W x 12'-0"H OVERHEAD DOOR	20'-0"	12'-0"	12'-0"	3-PLY 1-3/4" x 8-1/4" LVL 3, 100 Fb - 2 OE	2 JACK STUDS / 2 KING STUDS	
OHD-2	14'-0"W x 12'-0"H OVERHEAD DOOR	14'-0"	12'-0"	12'-0"	3-PLY 1-3/4" x 14" LVL 3, 100 Fb - 2 OE	3 JACK STUDS / 2 KING STUDS	

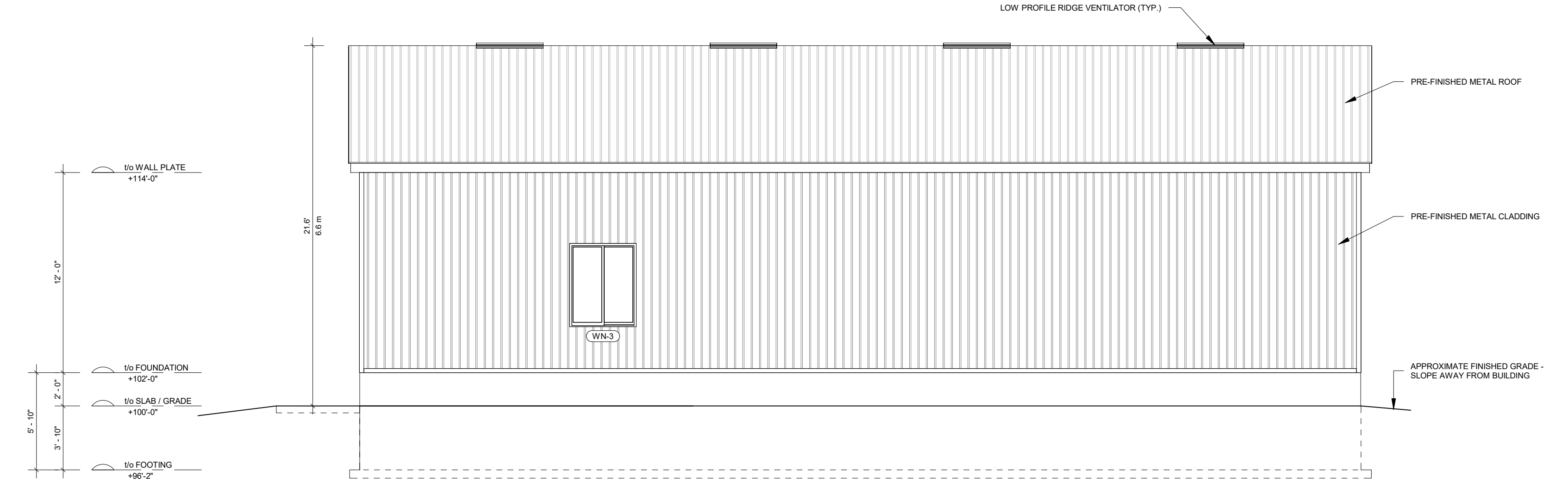
WINDOW SCHEDULE							
TAG	DESCRIPTION	ROUGH WIDTH	ROUGH HEIGHT	HEAD HEIGHT	LINTEL	BEARING	COMMENTS
WN-1	48"W x 48"H EXTERIOR WINDOW	49"	49"	105"	2-PLY 2x6 PF No.1No.2	1 JACK STUD / 1 KING STUD	
WN-2	48"W x 48"H EXTERIOR WINDOW	49"	49"	105"	2-PLY 2x6 PF No.1No.2	2 JACK STUDS / 1 KING STUD	
WN-3	48"W x 60"H EXTERIOR WINDOW	49"	61"	117"	2-PLY 2x6 PF No.1No.2	2 JACK STUDS / 1 KING STUD	

NOTE:

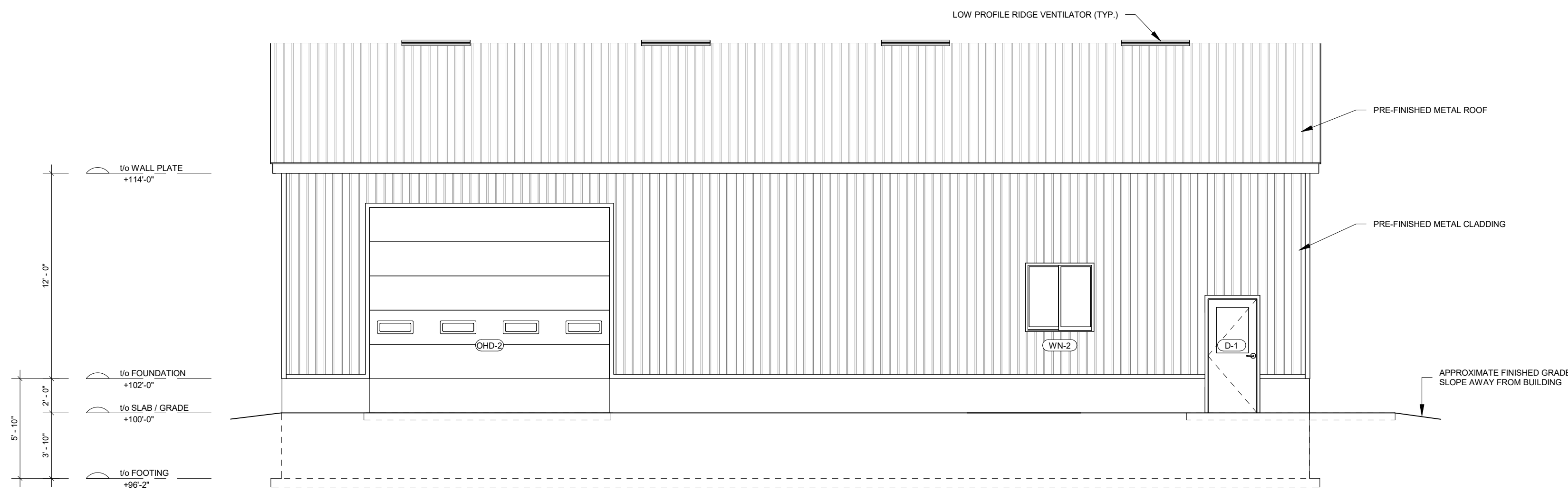
- ALL JACK STUDS / KING STUDS TO BE 2x6 SPF No.1No.2 (min.) UNLESS NOTED OTHERWISE.
- LAMINATED BUILT UP STUD POSTS IN ACCORDANCE WITH OBC.
- CONTRACTOR TO CONFIRM ROUGH OPENINGS PRIOR TO CONSTRUCTION.
- ALL EXTERIOR GRADE DOORS TO BE INSULATED TO THE SATISFACTION OF THE OWNER.
- ALL OVERHEAD DOORS TO BE INSULATED TO THE SATISFACTION OF THE OWNER.



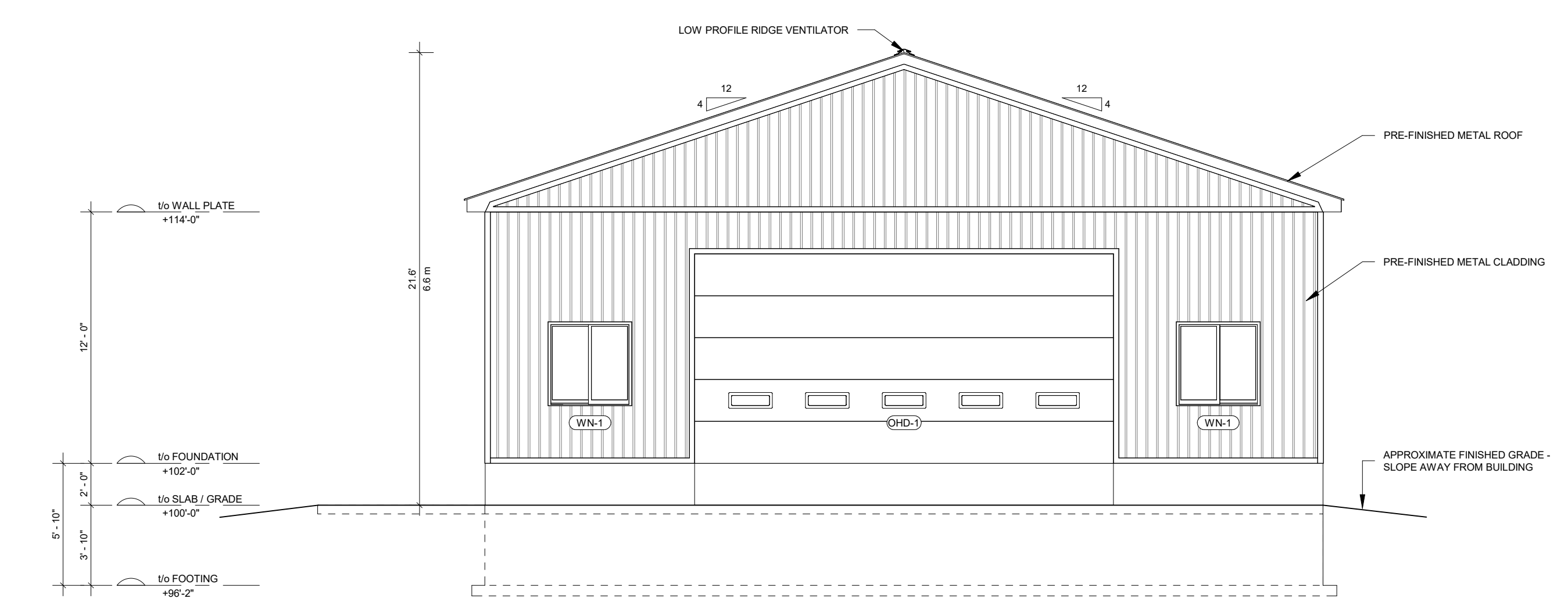
1 EAST ELEVATION
3/16" = 1'-0"



2 SOUTH ELEVATION
3/16" = 1'-0"



3 NORTH ELEVATION
3/16" = 1'-0"



4 WEST ELEVATION
3/16" = 1'-0"

NOTES:

@	AT	COMPLETE WITH	OHD	OVERHEAD DOOR
Ø	DIAMETER	PROJECTION	PROJ.	PROJECT
FR	FIRE-RSISTANCE RATING	PT	PRESSURE TREATED	
FDN	FOUNDATION	RF	REINFORCED WITH	
EW	EACH WAY	SG	SLIDE GATE	
EX	EXISTING	T&G	TONGUE AND GROOVE	
H	HIGH	TOP	TOP OF	
HR	HORIZONTAL	TYP.	TYPICAL	
HR	HOUR	US	UNDERSIDE	
LLV	LONG LEG VERTICAL	V	VERTICAL	
LVL	LAMINATED VANEER LUMBER	W	WITH	
max	MAXIMUM	W	WIDE	
min	MINIMUM	WWM	WELDED WIRE MESH	
OBC	ONTARIO BUILDING CODE			
OC	ON CENTER			

NORTH

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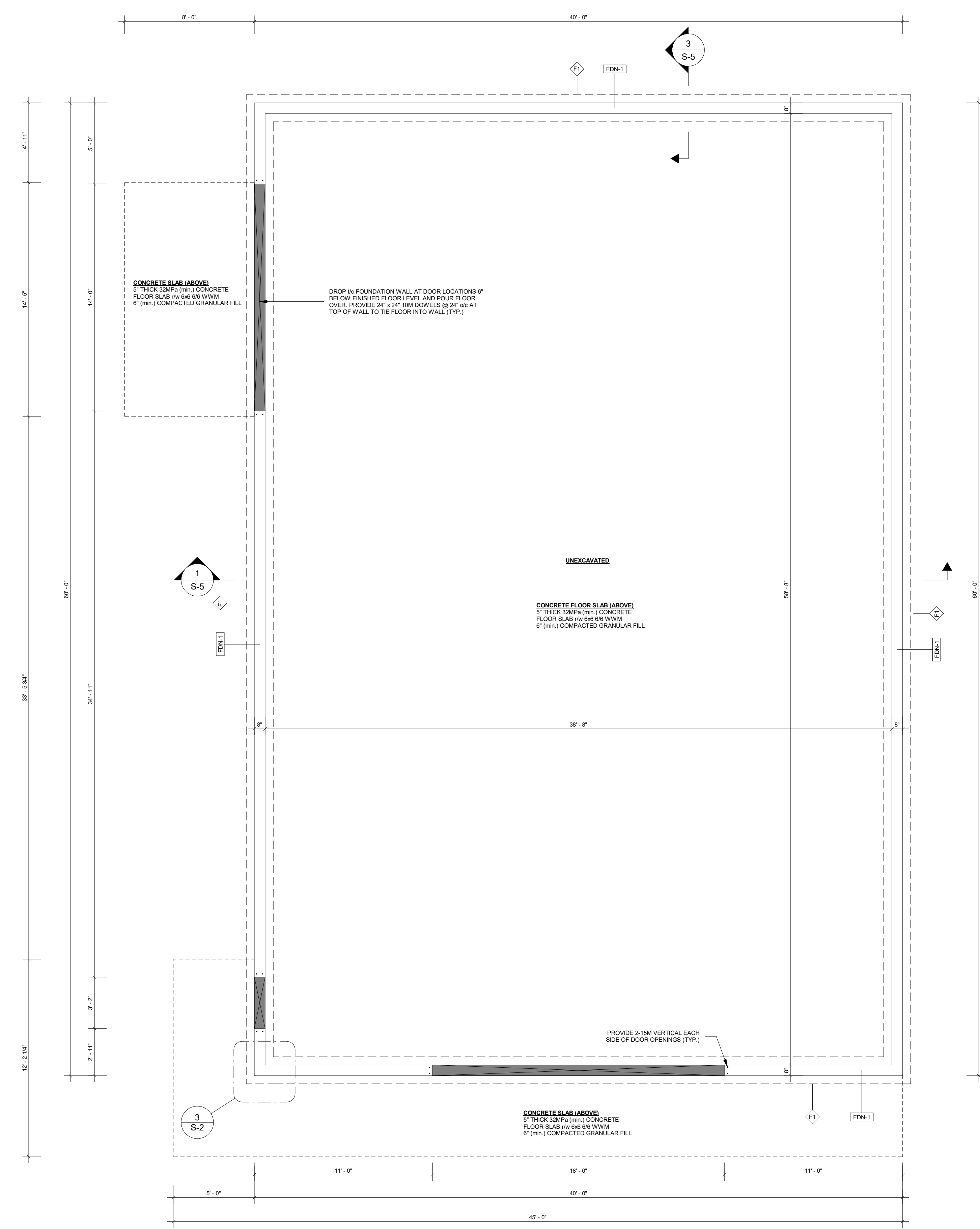


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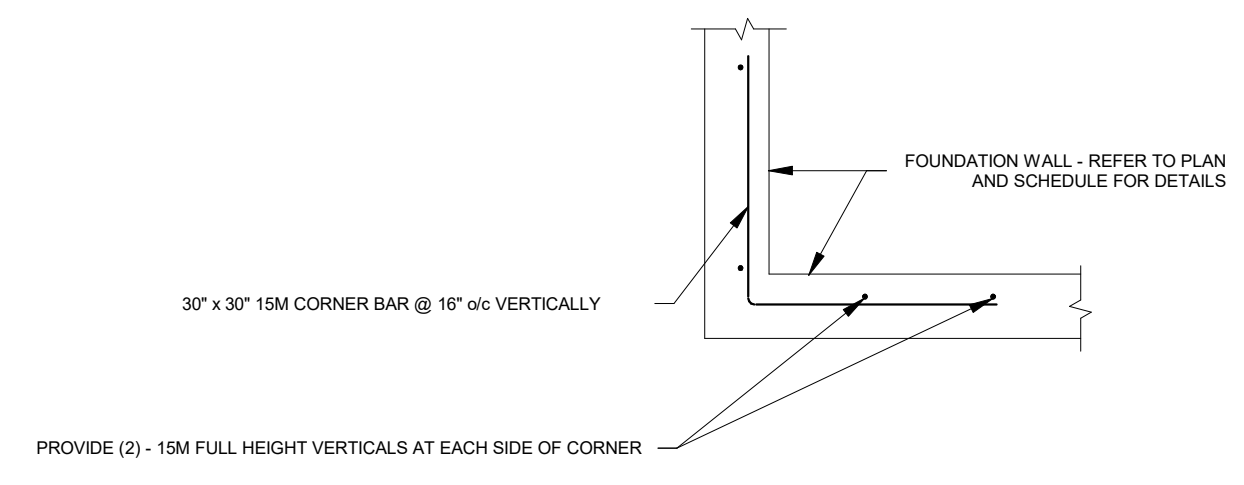
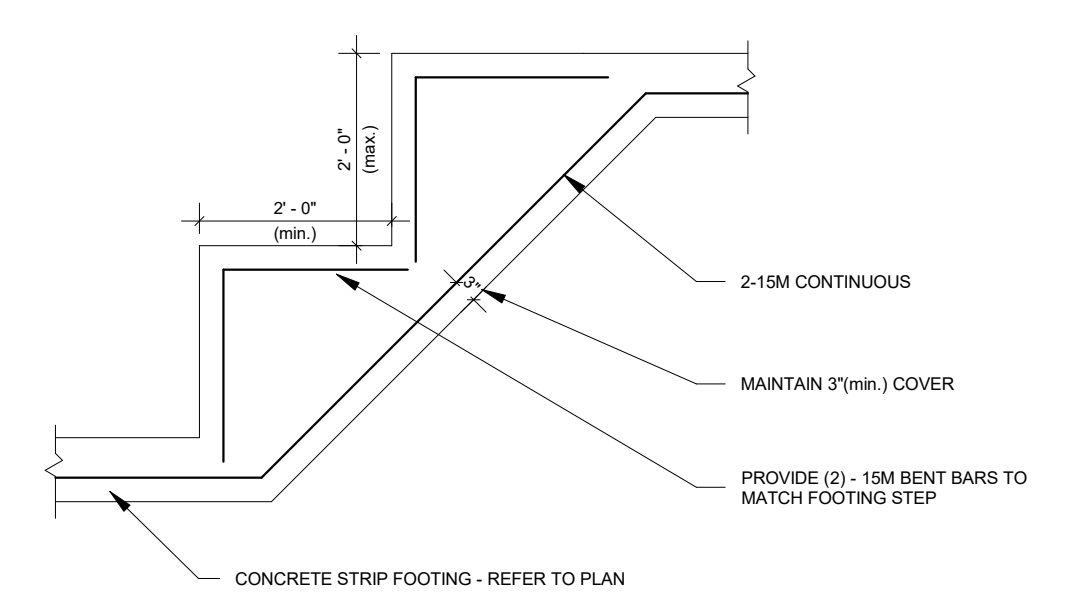
ELEVATIONS

PROJECT No.	MR23-435
SHEET No.	S-1
SCALE	As indicated



FOOTING SCHEDULE			
TAG	CROSS-SECTION	DESCRIPTION	MIN. 28 DAY STRENGTH
F1		20" WIDE x 6" THICK CONCRETE STRIP FOOTING REINFORCED WITH 2-15M CONTINUOUS. PROVIDE 30" x 6" 15M DOWELS @ 48" o/c.	N: 25MPa

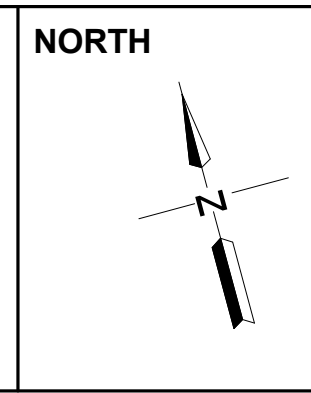
FOUNDATION WALL SCHEDULE					
TAG	CROSS-SECTION	DESCRIPTION	WALL ASSEMBLY	WALL HEIGHT	MIN. 28 DAY STRENGTH
FDN-1		8" THICK CONCRETE WALL	8" POURED IN PLACE CONCRETE REINFORCEMENT: PROVIDE (2) - 10M CONTINUOUS AT TOP OF WALL. ANCHOR BOLTS: 1/2" @ ANCHOR BOLT SPACING: 48" o/c.	5'-10"	F-2: 25MPa



1 FOUNDATION PLAN
1/4" = 1'-0"

NOTES:

- @ AT COMPLETE WITH
- Øw DIAMETER
- FRR FIRE-RESISTANCE RATING
- FDN FOUNDATION
- Øw EACH WAY
- EX EXISTING
- H HIGH/HORIZONTAL
- HR HOUR
- LLV LONG LEG VERTICAL
- LVL LAMINATED VANEER LUMBER
- max MAXIMUM
- min MINIMUM
- Øc ONTARIO BUILDING CODE
- Øc ON CENTER
- ØHD OVERHEAD DOOR
- ØPR PROJ. PROJECTION
- P.T PRESSURE TREATED
- R REINFORCED WITH
- SG SLIDE GATE
- T&G TONGUE AND GROOVE
- TOP TOP OF
- TYP. TYPICAL
- us UNDERSIDE
- V VERTICAL
- W WITH
- W WIDE
- WWM WELDED WIRE MESH



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PROJECT No.	MR23-435
SHEET No.	S-2
SCALE	As indicated

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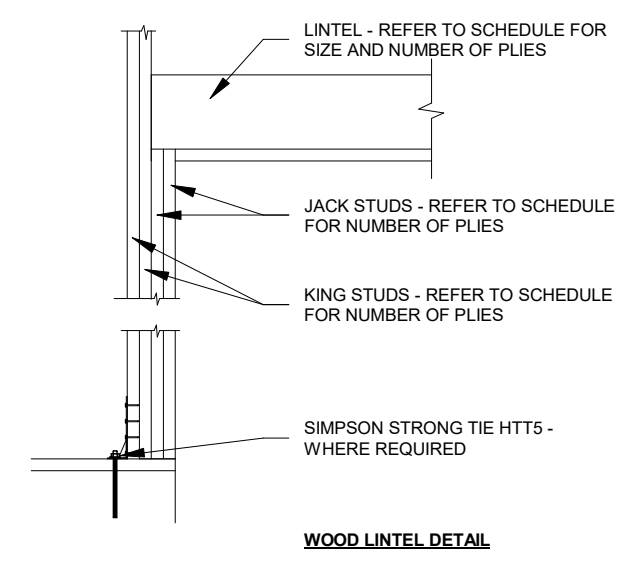
FOUNDATION PLAN - SECTIONS & DETAILS

DOOR SCHEDULE						
TAG	DESCRIPTION	ROUGH WIDTH	ROUGH HEIGHT	HEAD HEIGHT	LINTEL	BEARING
D-1	36"W x 80"H EXTERIOR DOOR - WITH WINDOW - WITH THRESHOLD	38 1/2"	82 1/2"	82 1/2"	2-PLY 2x6 SFF No. 1No.2	1 JACK STUD / 1 KING STUD

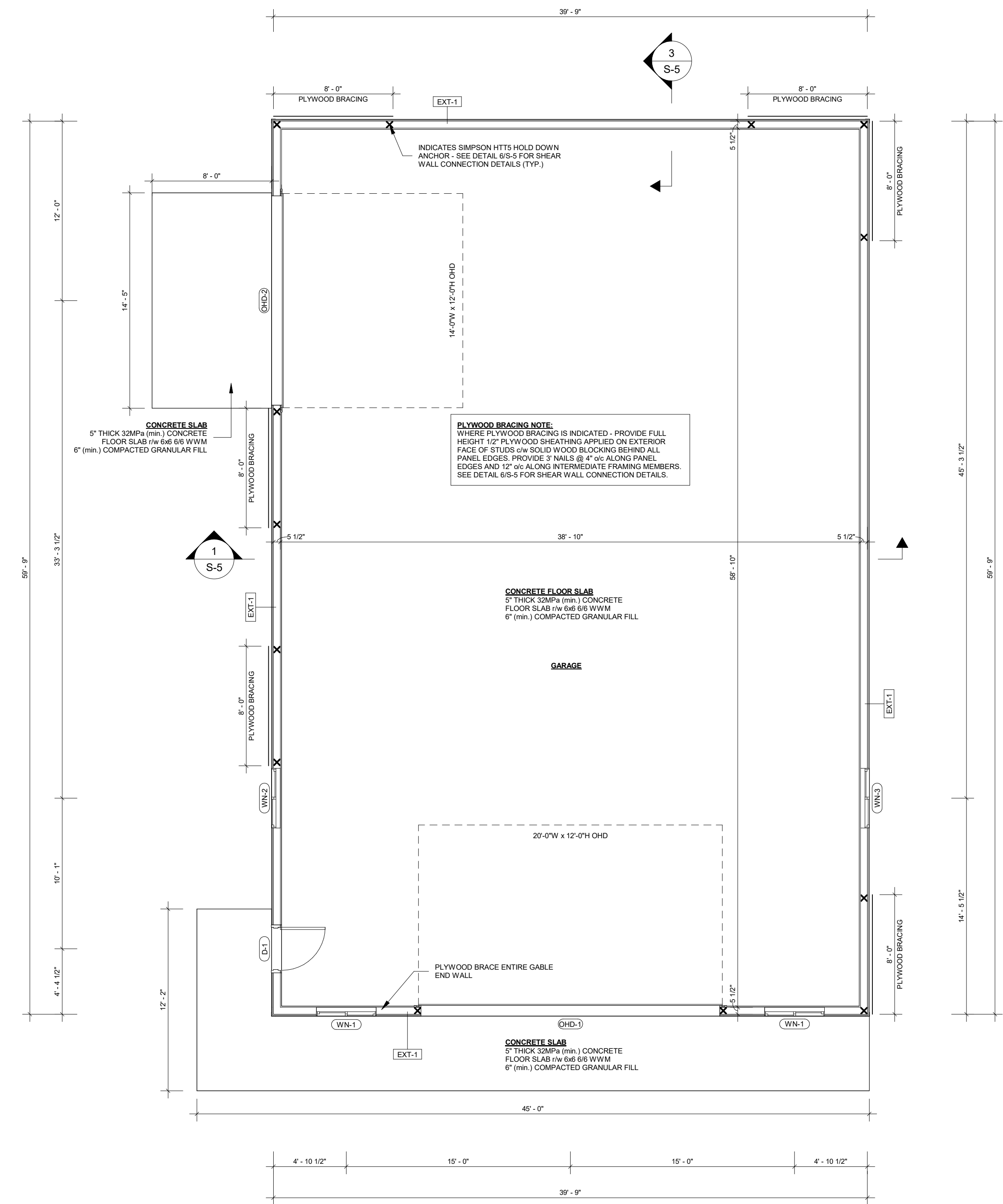
OVERHEAD DOOR SCHEDULE						
TAG	DESCRIPTION	ROUGH WIDTH	ROUGH HEIGHT	HEAD HEIGHT	LINTEL	BEARING
OHD-1	20'-0"W x 12'-0"H OVERHEAD DOOR	20'-0"	12'-0"	12'-0"	3-PLY 1-3/4" x 9-1/4" LVL 3, 100 Fb - 2.0E	2 JACK STUDS / 2 KING STUDS
OHD-2	14'-0"W x 12'-0"H OVERHEAD DOOR	14'-0"	12'-0"	12'-0"	3-PLY 1-3/4" x 14" LVL 3, 100 Fb - 2.0E	3 JACK STUDS / 2 KING STUDS

WINDOW SCHEDULE						
TAG	DESCRIPTION	ROUGH WIDTH	ROUGH HEIGHT	HEAD HEIGHT	LINTEL	BEARING
WN-1	48"W x 48"H EXTERIOR WINDOW	49"	49"	100"	2-PLY 2x6 SFF No. 1No.2	1 JACK STUD / 1 KING STUD
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- NOTE:
1. ALL JACK STUDS / KING STUDS TO BE 2x6 SFF No. 1No.2 (min.) UNLESS NOTED OTHERWISE.
 2. LAMINATED BUILT UP STUD POSTS IN ACCORDANCE WITH OBC.
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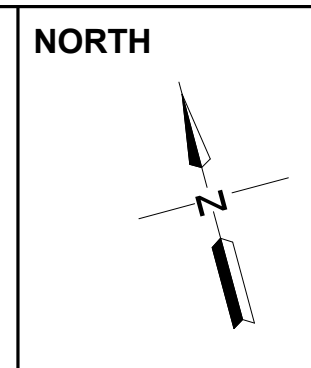


WALL SCHEDULE			
TAG	CROSS-SECTION	DESCRIPTION	WALL ASSEMBLY
EXT-1		2x6 FRAMED WALL	EXTERIOR 2x6x8 HR RIB STEEL w/ SCREW FASTENERS 1x6 WOOD STRAPPING @ 24" o/c TYVEK AIR BARRIER (OR EQUIVALENT) 2x6 SFF No. 1No.2 WOOD STUDS @ 16" o/c SOLID WOOD BLOCKING @ 48" o/c VERTICALLY PROVIDE 1 1/2" WIDE STRIP OF 3/4" THICK PLYWOOD AROUND PERIMETER OF EXTERIOR WALLS WHERE THERE IS NO PLYWOOD BRACING TO CONNECT STUDS TO TOP / BOTTOM PLATE. FASTEN PLYWOOD TO STUDS AND TOP / BOTTOM PLATE USING 3" COMMON WIRE NAILS @ 4" o/c.



1 GROUND FLOOR PLAN
3/16" = 1'-0"

- NOTES:
- @ AT
 - Øw COMPLETE WITH DIAMETER
 - FRR FIRE-RESISTANCE RATING
 - FDN FOUNDATION
 - Øw EACH WAY
 - EX EXISTING
 - H HIGH/HORIZONTAL
 - HR HOUR
 - LLV LONG LEG VERTICAL
 - LVL LAMINATED VANEER LUMBER
 - max MAXIMUM
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 - OBC ONTARIO BUILDING CODE
 - o/c ON CENTER
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 - P.T. PRESSURE TREATED
 - REINFORCED WITH
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 - w/w W/ W/
 - WWM WELDED WIRE MESH



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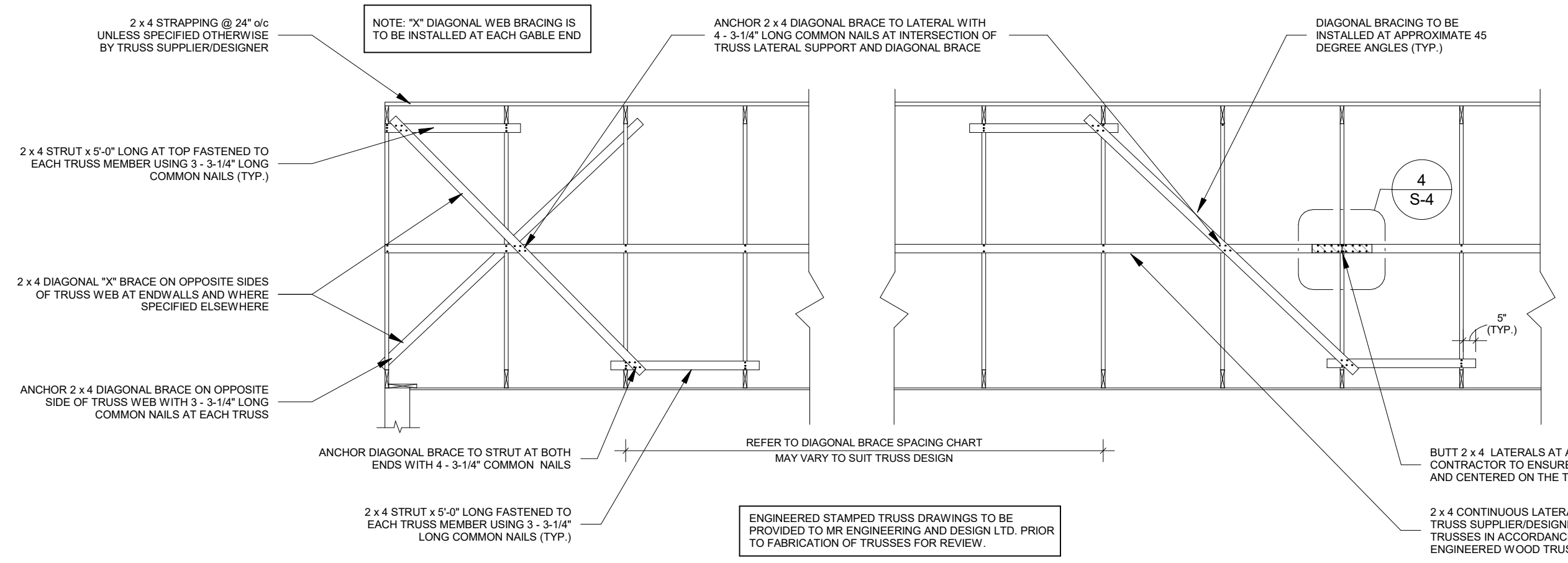
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RESIDENTIAL ACCESSORY BUILDING

GROUND FLOOR PLAN - SECTIONS & DETAILS

PROJECT No.	MR23-435
SHEET No.	S-3
SCALE	As indicated

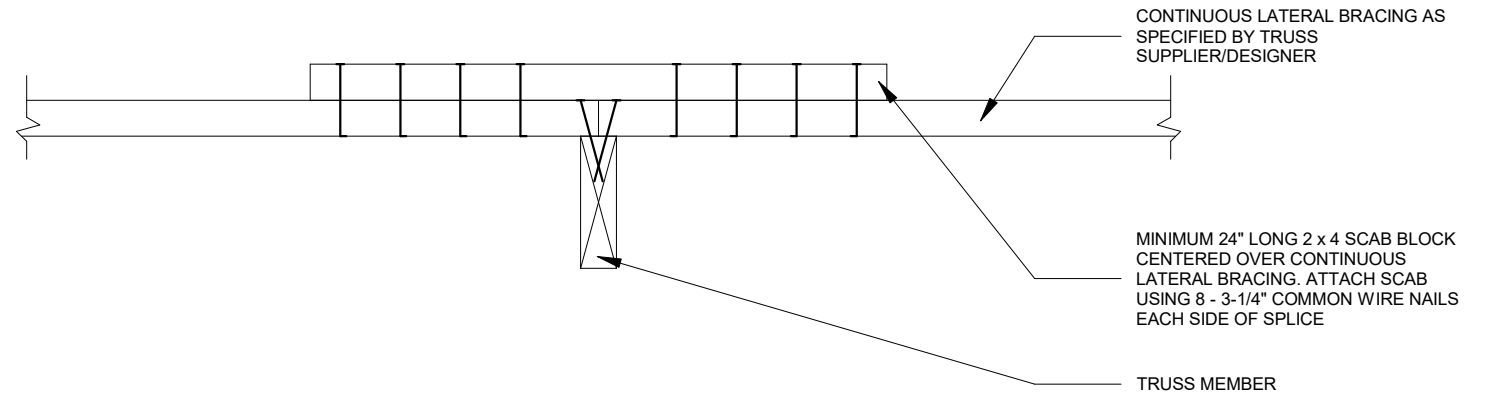
- TRUSS BRACING NOTE:**
- TRUSSES TO BE DESIGNED FOR THE LOADS NOTED ON THE STRUCTURAL DRAWINGS.
 - THE TRUSS DESIGNER SHALL ACCOUNT FOR UNBALANCED LOADING CONDITIONS, VALLEY LOADS, SNOW SHADOWS, AND WIND UPLIFT IN ACCORDANCE WITH THE ONTARIO BUILDING CODE, AND THE NATIONAL BUILDING CODE AS APPLICABLE.
 - BRACE SPACING AND LOADS ON DIAGONAL BRACING TO BE BASED ON A CUMULATIVE FORCE OF 2.0% OF THE WEB COMPRESSION. VERIFY LOADING WITH TRUSS SHOP DRAWINGS.
 - ALL PERMANENT CONTINUOUS LATERAL BRACING TO BE INSTALLED ON WEB MEMBERS AS INDICATED BY THE TRUSS SUPPLIER/DESIGNER. SIZE AND LOCATION OF LATERAL BRACES AND CONNECTION TO THE TRUSSES SHALL BE IN ACCORDANCE WITH THE APPROVED PRE-ENGINEERED WOOD TRUSS SHOP DRAWINGS (BY OTHERS).
 - DIAGONAL BRACING MUST BE PROVIDED ON ALL WEB MEMBERS THAT REQUIRE LATERAL BRACING. DIAGONAL BRACING SHALL BE SPACED AS NOTED IN DETAIL 2 ON THIS DRAWING AND X-BRACING SHALL BE PROVIDED AT ENDWALLS.
 - ADDITIONAL TRUSS BRACING MAY BE REQUIRED TO ACCOMMODATE THE TRUSS DESIGN AFTER SHOP DRAWINGS ARE REVIEWED.

NOTE: CONTRACTOR IS RESPONSIBLE FOR TEMPORARY BRACING DURING CONSTRUCTION. REFER TO BSCI - "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES FOR ADDITIONAL INFORMATION"

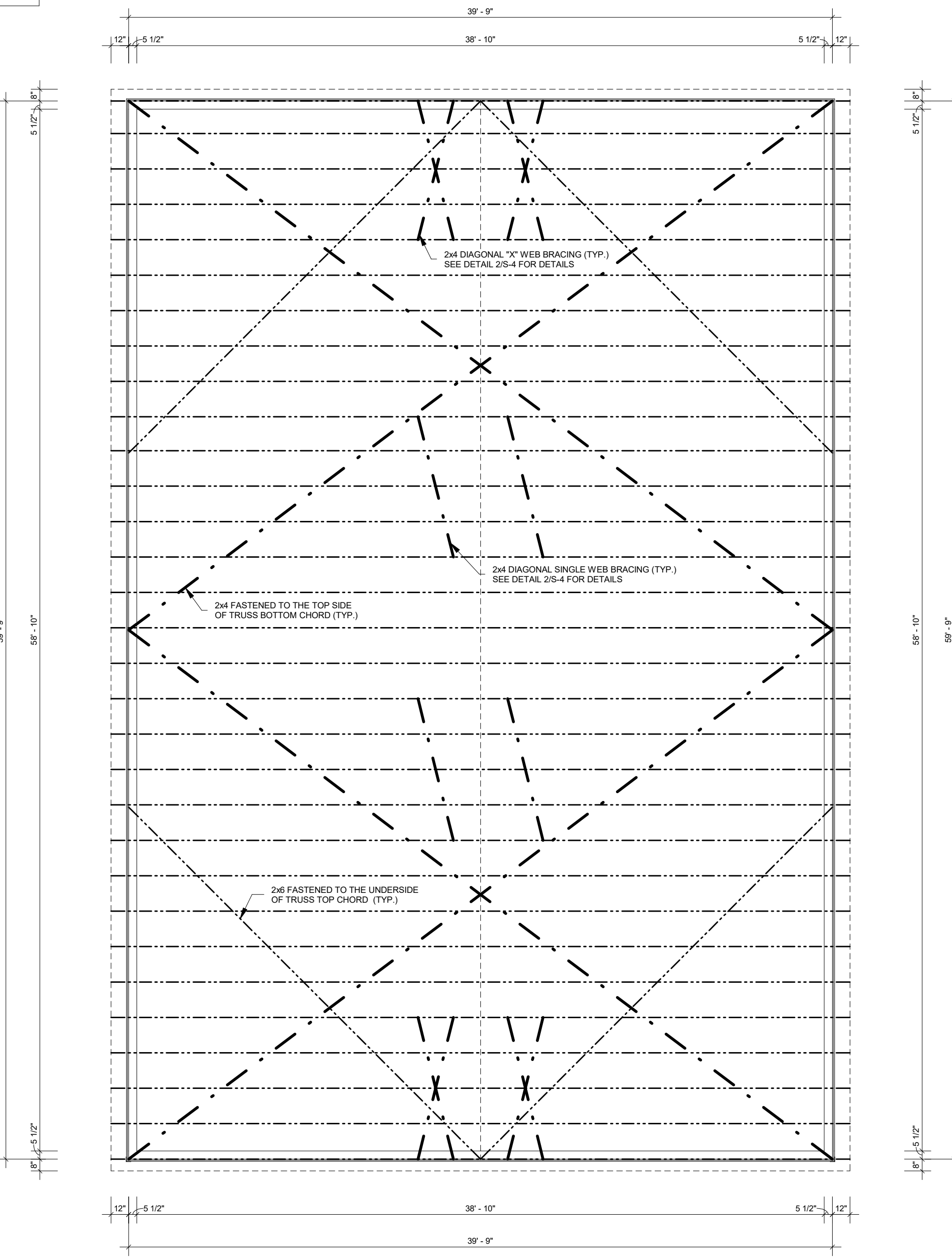


TRUSS SPACING	DIAGONAL BRACE SPACING	
	CENTER TO CENTER SPACING	CENTER TO CENTER SPACING
NUMBER OF ROWS PURLINS	24'-0"	16'-0"
SINGLE ROW OF PURLINS	24'-0"	16'-0"
DOUBLE ROW OF PURLINS	12'-0"	8'-0"
3 OR MORE ROWS OF PURLINS	CONTINUOUS "Y" BRACING	CONTINUOUS "Y" BRACING

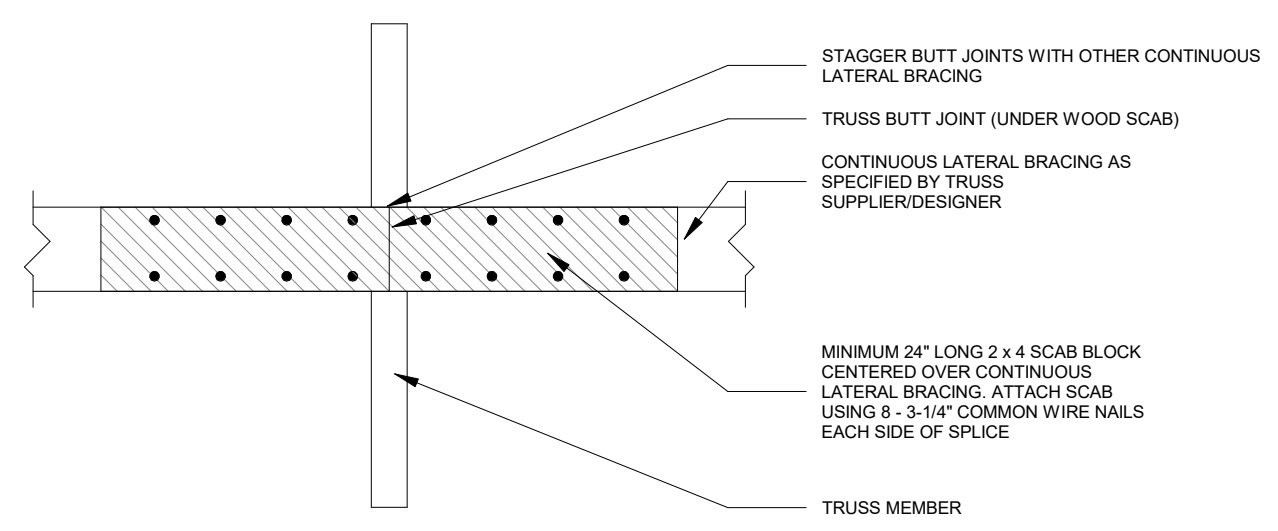
2 WEB BRACING DETAILS
1/4" = 1'-0"



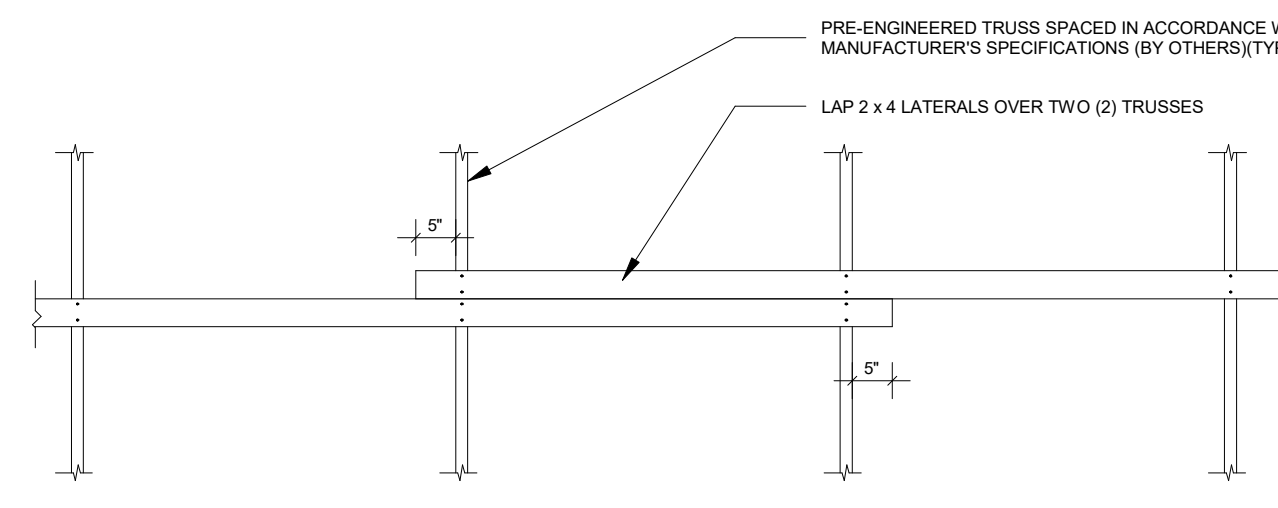
3 TYPICAL BUTT JOINT SPLICE SECTION
1 1/2" = 1'-0"



1 ROOF FRAMING PLAN
3/16" = 1'-0"



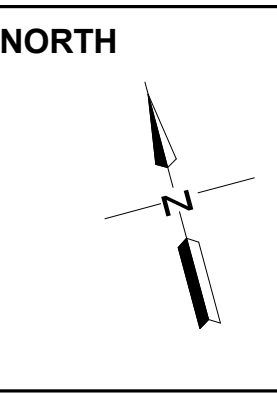
4 TYPICAL BUTT JOINT SPLICE DETAIL
1 1/2" = 1'-0"



5 ALTERNATIVE CONTINUOUS LATERAL BRACE SPLICE CONNECTION
1/2" = 1'-0"

NOTES:

@	AT	OVERHEAD DOOR	
Ø	COMPLETE WITH	PROJECTION	
Øw	DIAMETER	PRESSURE TREATED	
FRR	FIRE-RESISTANCE RATING	Øw	REINFORCED WITH
FDN	FOUNDATION	ØG	SLIDE GATE
Øw	EACH WAY	T&G	TONGUE AND GROOVE
EX	EXISTING	Øv	TOP OF
H	HIGH/HORIZONTAL	TYP.	TYPICAL
HR	HOUR	us	UNDERSIDE
LLV	LONG LEG VERTICAL	v	VERTICAL
LVL	LAMINATED VANEER LUMBER	w	WITH
max	MAXIMUM	W	WEBE
min	MINIMUM	WWM	WELDED WIRE MESH
ØBC	ONTARIO BUILDING CODE		
ØC	ON CENTER		



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RESIDENTIAL ACCESSORY BUILDING

ROOF FRAMING PLAN - SECTION DETAILS

PROJECT No.	MR23-435
SHEET No.	S-4
SCALE	As indicated

NOTE: PROFILE OF TRUSS IS APPROXIMATE. FINAL DESIGN BY OTHERS. ENGINEERED STAMPED TRUSS DRAWINGS TO BE PROVIDED TO MR. ENGINEERING AND DESIGN LTD. PRIOR TO FABRICATION OF TRUSSES FOR REVIEW.

2x4 CONTINUOUS LATERAL BRACING AS SPECIFIED BY TRUSS SUPPLIER/DESIGNER AND ATTACHED TO THE TRUSSES IN ACCORDANCE WITH THE APPROVED PRE-ENGINEERED WOOD TRUSS SHOP DRAWINGS (TYP.)

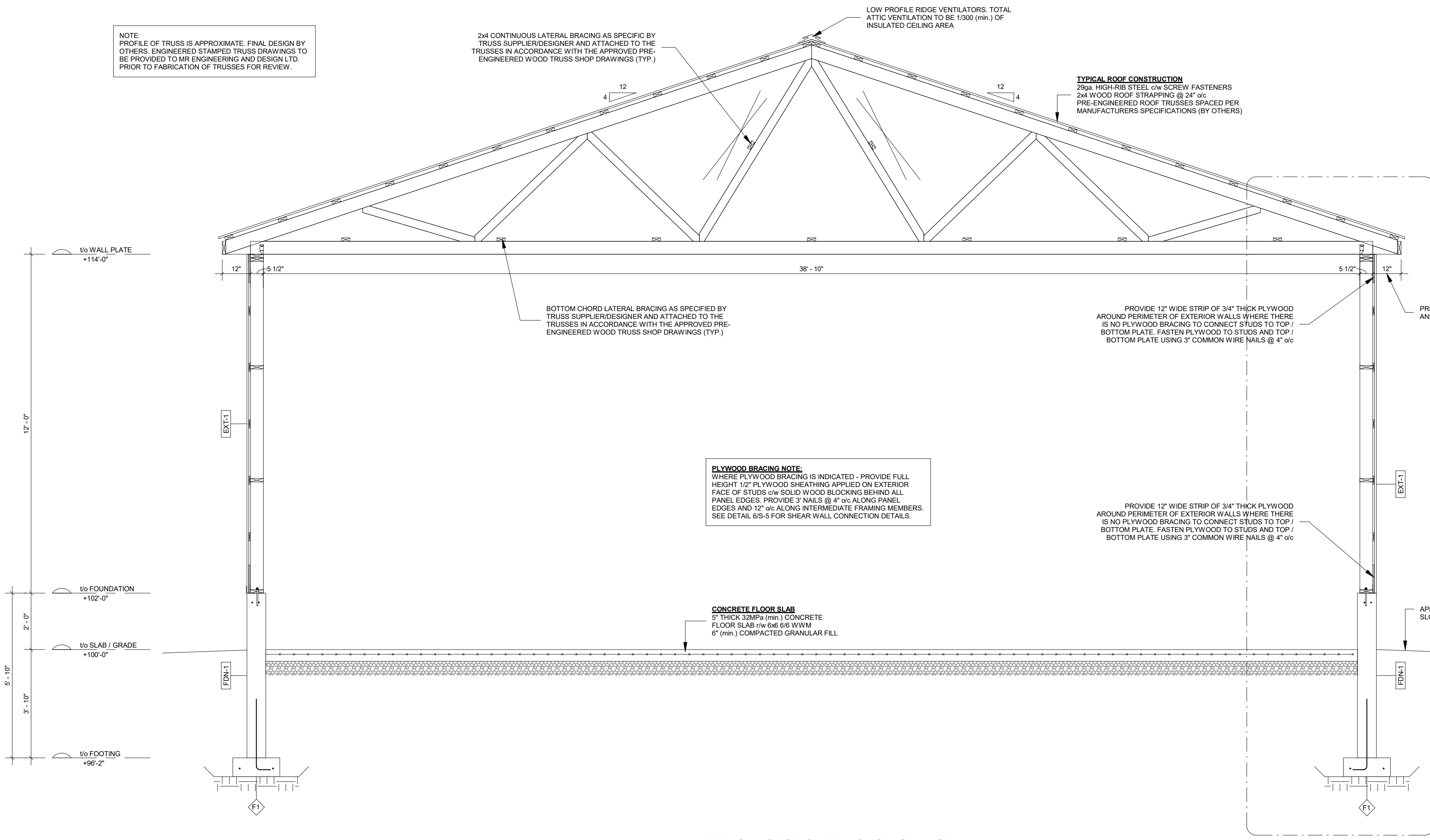
LOW PROFILE RIDGE VENTILATORS. TOTAL ATTIC VENTILATION TO BE 1:500 (MIN.) OF INSULATED CEILING AREA

TYPICAL ROOF CONSTRUCTION
2x4 HIGH-RIB STEEL C/W SCREW FASTENERS
2x4 WOOD ROOF STRAPPING @ 24" o/c
PRE-ENGINEERED ROOF TRUSSES SPACED PER MANUFACTURER'S SPECIFICATIONS (BY OTHERS)

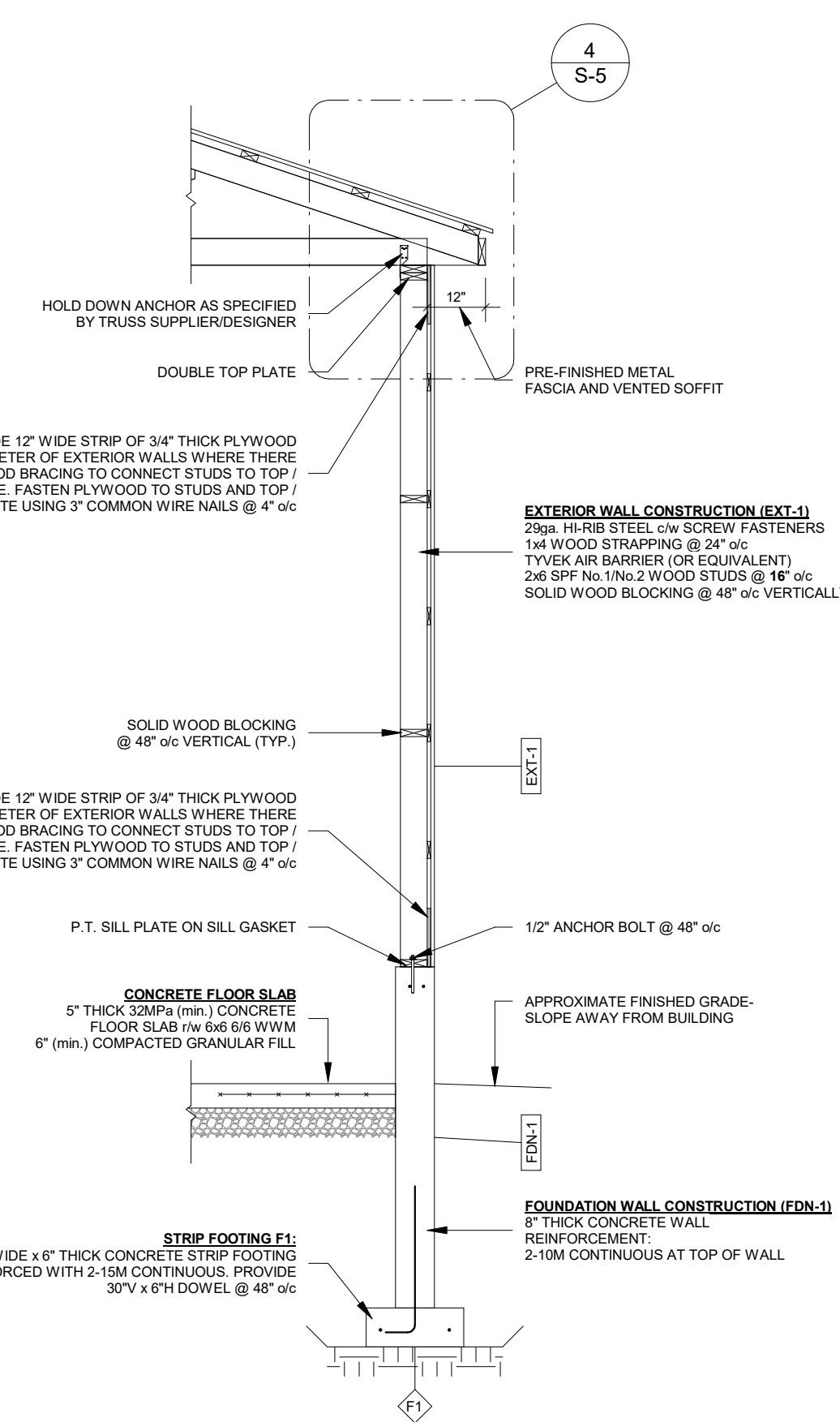
BOTTOM CHORD LATERAL BRACING AS SPECIFIED BY TRUSS SUPPLIER/DESIGNER AND ATTACHED TO THE TRUSSES IN ACCORDANCE WITH THE APPROVED PRE-ENGINEERED WOOD TRUSS SHOP DRAWINGS (TYP.)

PLYWOOD BRACING NOTE
WHERE PLYWOOD BRACING IS INDICATED - PROVIDE FULL HEIGHT 1/2" THICK PLYWOOD SHEATHING APPLIED ON EXTERIOR FACE OF STUDS C/W SOLID WOOD BLOCKING BEHIND ALL PANEL EDGES. PROVIDE 3" NAILS @ 4" o/c ALONG PANEL EDGES AND 12" o/c ALONG INTERMEDIATE FRAMING MEMBERS. SEE DETAIL S5-5 FOR SHEAR WALL CONNECTION DETAILS.

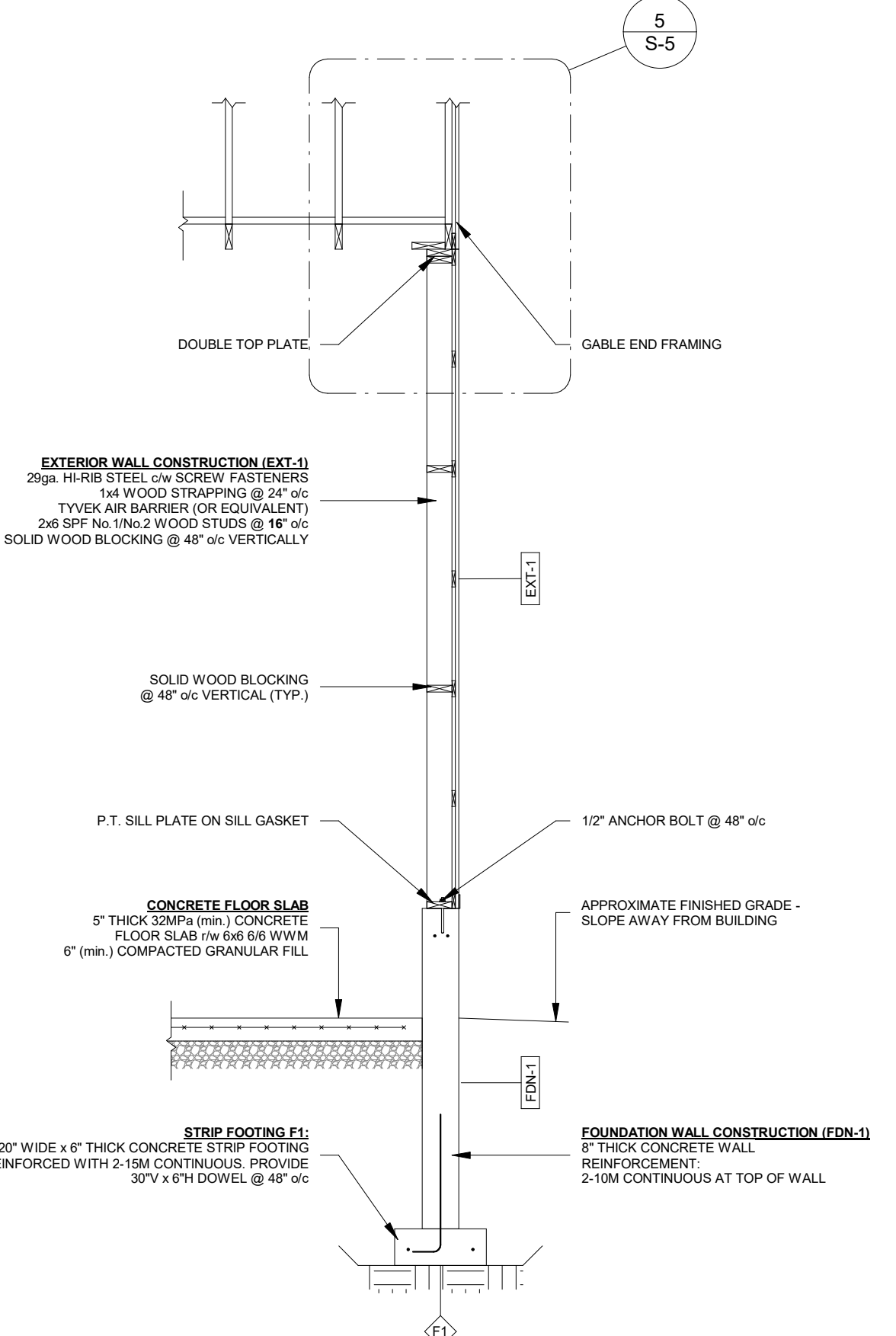
CONCRETE FLOOR SLAB
5" THICK 32MPa (min.) CONCRETE FLOOR SLAB (w/ 6/8 @ 6" WWM) 6" (min.) COMPACTED GRANULAR FILL



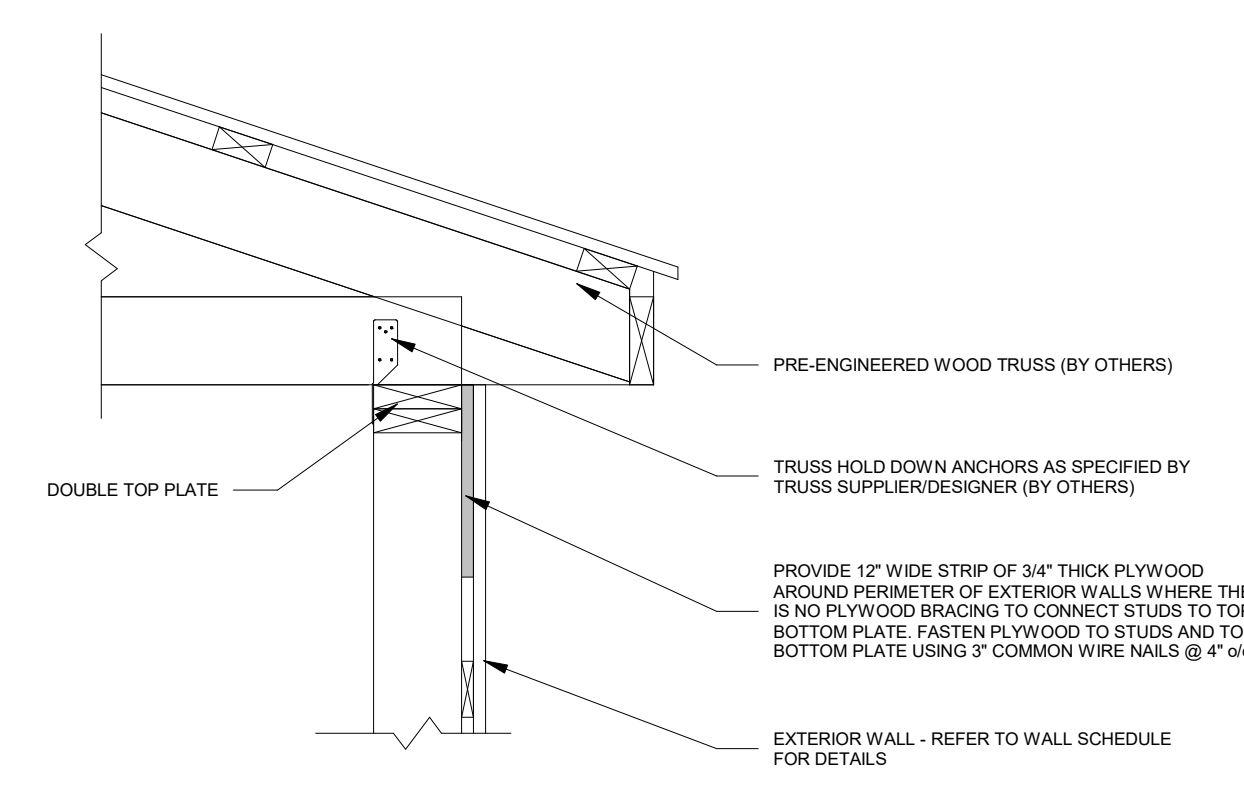
1 TYPICAL SECTION THROUGH GARAGE
3/8" = 1'-0"



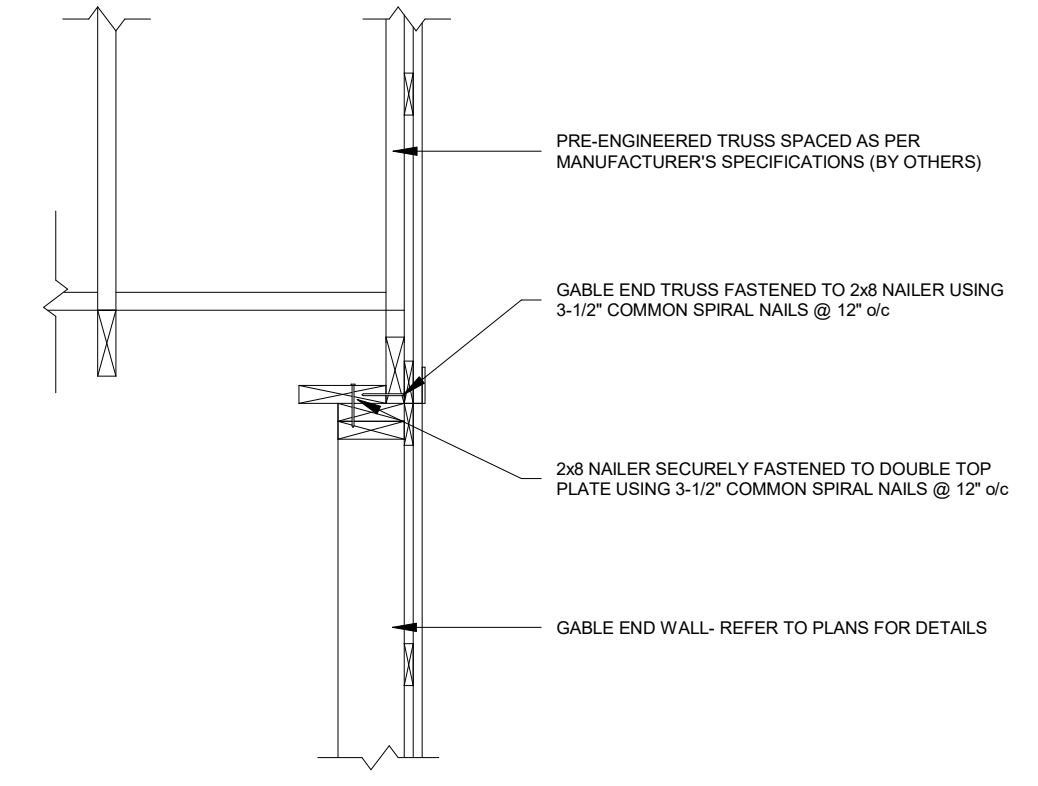
2 TYPICAL SECTION THROUGH EXT-1
3/8" = 1'-0"



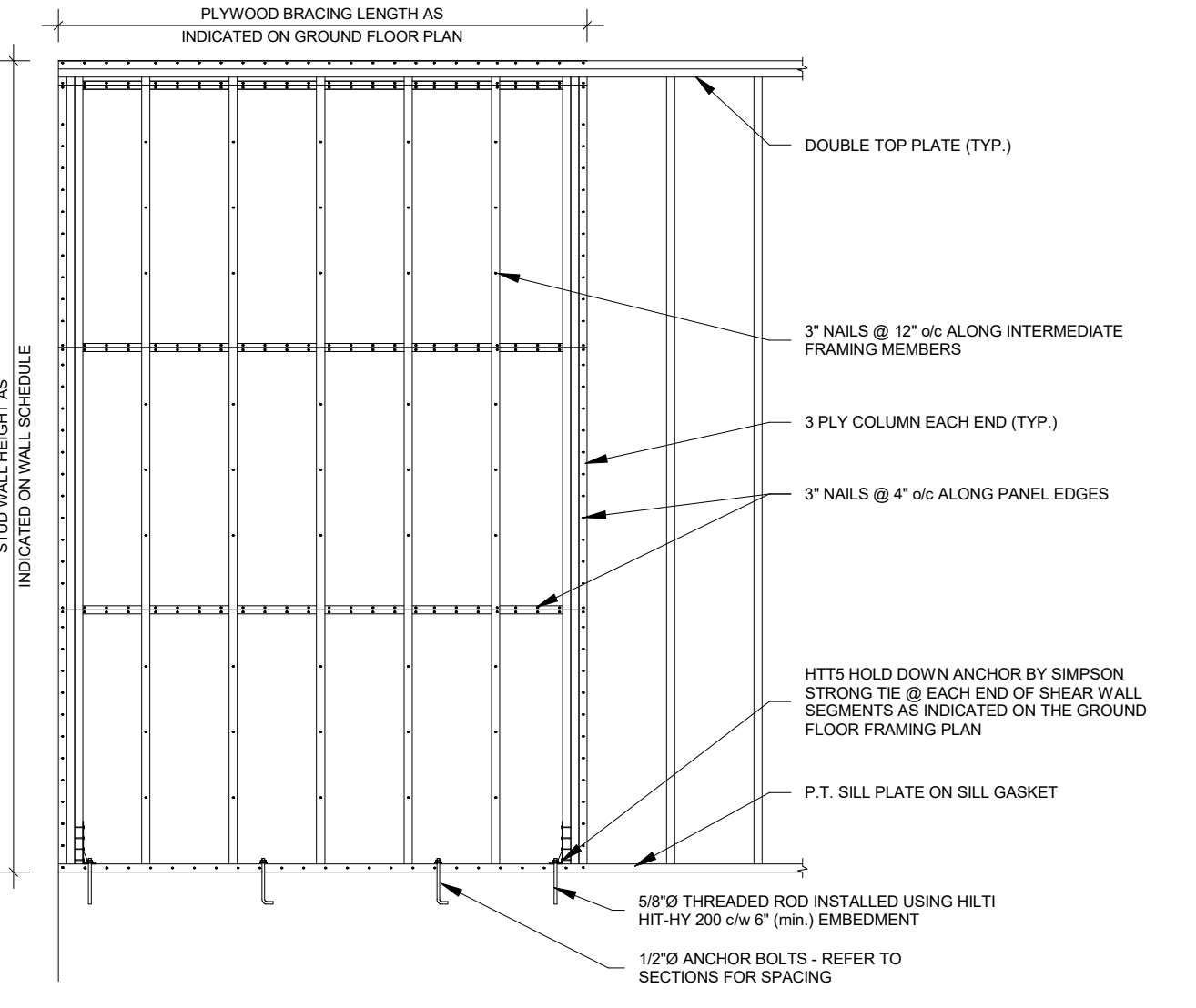
3 TYPICAL SECTION THROUGH ENDWALL
3/8" = 1'-0"



4 TYPICAL SIDE WALL TRUSS CONNECTION DETAIL
1" = 1'-0"



5 TYPICAL ENDWALL TRUSS CONNECTION DETAIL
3/4" = 1'-0"



6 SHEAR WALL DETAIL
3/8" = 1'-0"

NOTES:

@	AT	OVERHEAD DOOR
c/w	COMPLETE WITH	PROJECTION
Ø	DIAMETER	P.T. PRESSURE TREATED
FRR	FIRE-RESISTANCE RATING	REINFORCED WITH
FDN	FOUNDATION	SLIDE GATE
ew	EACH WAY	T&G TONGUE AND GROOVE
EX	EXISTING	TOP OF
H	HIGH/HORIZONTAL	TYP. TYPICAL
HR	HOUR	UNDERSIDE
LLV	LONG LEG VERTICAL	V VERTICAL
LVL	LAMINATED VANEER LUMBER	W WITH
max	MAXIMUM	W WIDE
min	MINIMUM	W WELDED WIRE MESH
ONC	ONTARIO BUILDING CODE	
o/c	ON CENTER	

NORTH

DESIGN	TVG	No.	REVISION DESCRIPTION	MM/DD/YY	CHKD
DRAWN	TVG	1.	PRELIMINARY - FOR DISCUSSION ONLY	11/22/23	MR
CHECKED	MR	2.	ISSUED FOR MINOR VARIANCE	05/16/24	MR
APPROVED	MR				
DATE	MAY 2024				

CONSULTANT

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N0M 1T0

TONY HENDRIKX
RESIDENTIAL ACCESSORY BUILDING

SECTIONS & DETAILS

PROJECT No.	MR23-435
SHEET No.	S-5
SCALE	As indicated

GENERAL NOTES:

- ALL DIMENSIONS ARE IN IMPERIAL UNITS UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS TO CHECK AND VERIFY ALL DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH OTHER DRAWINGS. ANY DISCREPANCIES OR ERRORS MUST BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.
- DO NOT SCALE DRAWINGS.
- FEATURES OF CONSTRUCTION NOT FULLY SHOWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR SIMILAR CONDITIONS.
- STRUCTURAL DESIGN IS BASED ON THE LATEST EDITION OF THE NATIONAL BUILDING CODE OF CANADA AND THE ONTARIO BUILDING CODE, SPECIFICALLY, DIV. B - PARTS 4 & 9 OF THE 2012 ONTARIO BUILDING CODE.
- THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR THE INSPECTION OF STRUCTURAL REINFORCING AND STRUCTURAL STEEL FOR ALIGNMENT, BOLTS AND WELDED CONNECTIONS AND FOR THE PROMPT SUBMISSION OF ALL REPORTS TO THE PROJECT ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE PROVISIONS FOR TEMPORARY BRACING DURING CONSTRUCTION TO RESIST THE APPLIED LOADS THAT ARE INDICATED IN THESE DRAWINGS AND SUBSEQUENT DRAWINGS BY OTHERS.

EXCAVATION & BACKFILL

- REMOVE ALL TOPSOIL AND DELETERIOUS MATERIAL FROM BELOW THE EXTENTS OF THE EXCAVATION.
- SLOPE GRADE TO DRAIN AWAY FROM BUILDINGS.
- FOUND FOOTINGS WHICH ARE EXPOSED TO FREEZING WEATHER A MINIMUM OF 4'-0" BELOW FINISHED GRADE UNLESS SPECIFIED OTHERWISE.
- FOUND ALL FOOTINGS ON NATURALLY CONSOLIDATED, UNDISTURBED SOIL CAPABLE OF SAFELY SUSTAINING 150 kPa (3,100 psf) AT SERVICEABILITY LIMIT STATES (SLS) CORRESPONDING TO DENSE OR COMPACT SAND OR GRAVEL (TABLE 9.4.1.1, OBC).
- NO FOOTINGS SHALL BE POURED UNTIL THE BUILDING DEPARTMENT HAS APPROVED THE FOUNDATION CONDITIONS.
- ALL STANDING WATER SHALL BE REMOVED FROM THE FOUNDATION EXCAVATION PRIOR TO POURING CONCRETE.
- ENGINEER TO BE NOTIFIED IF EXCESSIVE UNDERGROUND WATER IS ENCOUNTERED.
- BACKFILL AND COMPACT FOUNDATION WALLS BELOW GRADE WITH MAXIMUM 2'-0" DIFFERENTIAL IN ELEVATION FROM ONE SIDE TO THE OTHER.

CONCRETE:

- CONCRETE SHALL CONFORM TO CSA A23.1.2.3 FOR QUALITY CONTROL AND REBAR PLACEMENT.
- REINFORCING STEEL:
 - CONFORM TO: CAN/CSA-G30-18/M92 CSA-G30-18/M92
 - WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH $f_y = 448 \text{ MPa (65,000 psi)}$
 - REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH $f_y = 400 \text{ MPa (58,000 psi)}$
- ALL REINFORCING BARS SHALL BE SUPPORTED IN THE FORMS AND SPACED WITH STANDARD ACCESSORIES SO THAT THERE IS NO MOVEMENT DURING CONCRETE PLACEMENT.
- REINFORCING IS TO BE GENERALLY PLACED IN ACCORDANCE WITH REINFORCING STEEL INSTITUTE OF CANADA "MANUAL OF STANDARD PRACTICE". ALL SPLICES SHALL BE CLASS "B" IN ACCORDANCE WITH THE FOLLOWING TABLE:

REBAR SIZE	CONCRETE			
	SPLICE LENGTH: mm (")			
	25MPa	30MPa	33MPa	35MPa
10M	400 (16")	400 (16")	400 (16")	400 (16")
15M	600 (24")	600 (24")	500 (20")	500 (20")
20M	800 (32")	700 (28")	700 (28")	700 (28")
25M	1200 (48")	1100 (44")	1100 (44")	1100 (44")

- THE ABOVE TABLE ALSO APPLIES TO ALL DOWELS UNLESS NOTED OTHERWISE.
- ALL HORIZONTAL BARS SHALL BE HOOKED 600mm (24") AROUND CORNERS/WALL INTERSECTIONS UNLESS NOTED OTHERWISE.
- PROVIDE 1-15M PER REINFORCEMENT LAYER OR CONCRETE LAYER AROUND ALL WINDOW, DOOR, MECHANICAL OR SIMILAR OPENINGS EXTENDING 24" (min) BEYOND EACH CORNER OF THE OPENING.
- THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS:

EXPOSURE CONDITION	EXPOSURE CLASS		
	N	F-1, F-2, S-1, S-2	C-XL, C-1, C-3, A-1, A-2, A-3
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	---	75mm 3"	75mm 3"
BEAMS, GIRDERS, COLUMNS, AND PILES	30mm 1-1/4"	40mm 1-1/2"	50mm 2"
SLABS, WALLS, JOISTS, SHELLS, AND FOLDED PLATES	20mm 3/4"	40mm 1-1/2"	60mm 2-3/8"
RATIO OF COVER TO NOMINAL BAR DIAMETER	1.0	1.5	2.0
RATIO OF COVER TO NOMINAL MAXIMUM AGGREGATE SIZE	1.0	1.5	2.0

- UNLESS OTHERWISE SPECIFIED BY THE OWNER, REINFORCEMENT SHALL BE PLACED WITHIN THE FOLLOWING TOLERANCES:
 - CONCRETE COVER: +/- 12mm (1/2") BUT NO LESS THAN 1/3 OF THE SPECIFIED MINIMUM COVER
 - WHERE THE DEPTH OF THE FLEXURAL MEMBER, THICKNESS OF A WALL, OR THE SMALLEST DIMENSION OF A COLUMN IS:
 - 200mm (8") OR LESS: +/- 6mm (1/4")
 - LARGER THAN 200mm (8") BUT LESS THAN 600mm (24"): 12mm (1/2")
 - 600mm OR LARGER: +/- 20mm (3/4")
 - LATERAL SPACING OF BARS: +/- 30mm (1-1/4")
 - LONGITUDINAL LOCATION OF BENDS AND ENDS OF BARS: +/- 50mm (2")
 - LONGITUDINAL LOCATION OF BENDS AND ENDS AT DISCONTINUOUS ENDS OF MEMBERS: +/- 20mm (3/4")
- ALL REINFORCING STEEL IN PLACE TO BE MADE AVAILABLE FOR INSPECTION BY ENGINEER BEFORE POURING THE CONCRETE. ENGINEER TO BE NOTIFIED WELL IN ADVANCE OF POURING SCHEDULE. ENGINEER TO CARRY OUT INSPECTION AT HIS DISCRETION.
- ALL GRIT, MUD AND DEBRIS SHALL BE REMOVED FROM THE REINFORCING STEEL PRIOR TO THE PLACEMENT OF CONCRETE.
- PROVIDE PORTLAND CEMENT OF CANADIAN MANUFACTURE CONFORMING WITH CSA/CAN 3-A3, TYPE 10.
- CONTROL JOINTS IN SLABS ON GRADE SHALL BE 1/4 THE THICKNESS OF THE SLAB. SPACING OF THE CONTROL JOINTS IN SLABS ON GRADE SHALL NOT EXCEED THE GREATER OF 30 TIMES THE THICKNESS OF THE SLAB OR 15'-0".
- PROVIDE CLEAN, UNCOATED SAND AND COARSE AGGREGATES FROM APPROVED SOURCES WHICH CONFORM WITH CSA/CAN 3-A3M. REFER TO THE CONCRETE SPECIFICATIONS PROVIDED BELOW FOR AGGREGATE SIZE.
- PROVIDE PLASTICIZER OF WATER REDUCING ADD MIXTURE WHERE INCREASED WORKABILITY IS REQUIRED. **DO NOT ADD WATER ON-SITE.**
- USE HIGH FREQUENCY VIBRATION TO PLACE ALL CONCRETE.
- ALL CONCRETE SHALL HAVE A 3" SLUMP +/- 1".
- TAKE ADEQUATE MEASURES TO PROTECT CONCRETE FROM EXPOSURE TO FREEZING TEMPERATURES AT LEAST SEVEN DAYS AFTER CONCRETE PLACEMENT.
- ALL CONCRETE SHALL BE TESTED BY A CSA CERTIFIED CONCRETE TESTING LABORATORY.
 - CURING TYPE 1 - 3 DAYS @ 10°C TO ATTAIN 40% OF THE SPECIFIED STRENGTH
 - CURING TYPE 2 - 7 DAYS @ 10°C TO ATTAIN 70% OF THE SPECIFIED STRENGTH
 - CURING TYPE 3 - A WET CURING PERIOD OF 7 DAYS.

CONCRETE SPECIFICATIONS						
DESCRIPTION	CLASS OF CONCRETE	STRENGTH @ 28 DAYS	W/CM RATIO	AIR ENTRAINMENT	CURING TYPE	AGGREGATE
FOOTINGS	N	20MPa	N/A	N/A	1	14-20mm
FOUNDATION WALLS	F-2	25MPa	0.55	4.7%	1	14-20mm
INTERIOR / EXTERIOR SLABS	C-2	32MPa	0.45	5.8%	2	14-20mm

LUMBER:

- LUMBER SHALL BE No. 2 GRADE SPECIES SPF OR BETTER UNLESS NOTED OTHERWISE.
- ALL POSTS SHALL BE No. 1 GRADE SPECIES SPF OR BETTER UNLESS NOTED OTHERWISE.
- ALL WOOD IN CONTACT WITH CONCRETE OR SOLE/EARTH SHALL BE PRESSURE TREATED.
- ALL PLYWOOD SHALL CONFORM TO CSA STANDARD 0121 OR 0151.
- ALL OSB SHALL CONFORM TO CSA 0325 CONSTRUCTION SHEATHING OR CSA 0437.0 WAFERBOARD WITH MINIMUM PANEL MARK FOR OSB: OSB: 1240P 16.
- ALL NAILFASTENERS USED WITH PRESSURE TREATED LUMBER SHALL BE GALVANIZED OR ACO QUALIFIED.
- ALL MANUFACTURED CONNECTORS/HARDWARE TO BE GALVANIZED.
- ALL NAILING SHALL BE AS PER NRC/OBC UNLESS NOTED OTHERWISE. NAILS AND SPIKES SHALL CONFORM TO THE CSA STANDARD 8111 WIRE NAILS, SPIKES AND STAPLES.
- ALL BOLTS USED FOR WOOD CONNECTIONS SHALL BE A307 (min.) WHERE BOLTS ARE EXPOSED TO CORROSIVE ENVIRONMENTS. A307 (min.) HOT DIPPED GALVANIZED BOLTS, NUTS, WASHERS SHALL BE USED.
- STUD WALLS SHALL BE ANCHORED TO THE FOUNDATION WITH 1/2"Ø ANCHOR BOLTS SPACED AS INDICATED ON THE DRAWINGS.

TRUSSES:

- THE ROOF TRUSSES ARE TO BE DESIGNED FOR THE SPECIFIED LOADS. THE SUPPLIER IS TO PROVIDE ERECTION AND MEMBER FABRICATION DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO. THE DRAWINGS MUST INDICATE DESIGN LOADS, TIMBER SPECIES, GRADES, BRACING AND CONNECTORS. ALL TRUSSES MUST BE ANCHORED WITH APPROPRIATE TIE DOWN METAL ANCHORS TO RESIST UPLIFT AS CALCULATED AND SHOWN IN THE TRUSS DESIGN CALCULATIONS AND TRUSS DRAWINGS.
- THE BEARING SHOWN ON THE DRAWINGS IS THE MAXIMUM WIDTH TO BE PROVIDED AND THE TRUSS MANUFACTURER MUST DESIGN THE TRUSSES TO SUIT THE BEARING WIDTH.
- ALL PERMANENT BRACING FOR TRUSSES SHALL BE SECURELY ANCHORED BY BACK BRACING DIAGONALLY OR ATTACHING TO ENDWALLS ACCORDING TO GUIDELINES PUBLISHED BY THE CANADIAN WOOD TRUSS ASSOCIATION.
- UNBALANCED LOADING CONDITIONS SHALL BE INCLUDED IN THE TRUSS DESIGN.
- TRUSS DESIGNER TO ACCOUNT FOR INCREASE SNOW LOADS DUE TO ROOF VALLEYS AND SNOW SHADOWS/DRIFTING.
- TRUSS SHOP DRAWINGS SHALL BE PROVIDED TO THE ENGINEER TO REVIEW PRIOR TO FABRICATION. DESIGN LOADS AND ASSUMPTIONS SHALL BE NOTED ON THE SHOP DRAWINGS.

STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CSA SPECIFICATIONS S16.1 (LATEST EDITION) AND CSA SPECIFICATIONS G40.20 AND G40.21, TYPE 350W (LATEST EDITION) FOR BEAMS AND 350W FOR HSS (CLASS C).
- BOLTED CONNECTIONS SHALL BE MADE USING FRICTION TYPE CONNECTION AND HIGH TENSILE STRENGTH BOLTS (3025 min.) WHERE BOLTS ARE EXPOSED TO CORROSIVE ENVIRONMENTS. A325 (min.) HOT DIPPED GALVANIZED BOLTS, NUTS, WASHERS SHALL BE USED.
- STRUCTURAL STEEL FABRICATOR TO BE CERTIFIED BY THE CANADIAN WELDING BUREAU.
- THE WELDING SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD W59 (LATEST EDITION) AND THE WELDING COMPANY AND WELDERS SHALL BE QUALIFIED UNDER THE REQUIREMENTS OF CSA STANDARD W57 (LATEST EDITION) FOR THE APPROPRIATE POSITION.
- STEEL SHALL BE THOROUGHLY CLEANED AND HOT DIPPED GALVANIZED. AREAS AFFECTED BY WEATHERING, DAMAGE DUE TO HANDLING ETC., SHALL HAVE THE RUST REMOVED AND BE TOUCHED UP IN THE FIELD.
- NO SPLICES IN BEAMS AND COLUMNS WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE ENGINEER. BUTT WELDS IN SPLICES AND MOMENT CONNECTIONS MUST BE ULTRASONICALLY TESTED OR X-RAYED AND PASSED BY AN INDEPENDENT TESTING COMPANY.
- DO NOT CUT OPENINGS IN STRUCTURAL STEEL MEMBERS WITHOUT THE ENGINEER'S APPROVAL.
- THE CONTRACTOR/STEEL SUPPLIER SHALL PROVIDE AND REMOVE AFTERWARDS ALL TEMPORARY BRACING NECESSARY TO KEEP THE STRUCTURE TRUE AND PLUMB. ALL TEMPORARY BRACING SHALL ACCOUNT FOR CONSTRUCTION AND ENVIRONMENTAL LOADS DURING CONSTRUCTION.
- CONTRACTOR TO VERIFY SITE MEASUREMENTS PRIOR TO FABRICATION OF STEEL.

DESIGN INFORMATION:

SB-1 LOCATION (PARKHILL, ON - 15 km +/- FROM BUILDING LOCATION)
BUILDING LOCATION (10098 KLONDYKE ROAD, GRAND BEND, ON)

DOOR

LIVE LOAD	SNOW (S _s)	2.4 kPa (50.1 psf)
RAIN (R _r)	0.4 kPa (8.4 psf)	
C _d	0.55	

TRUSS DESIGN DEAD LOADS

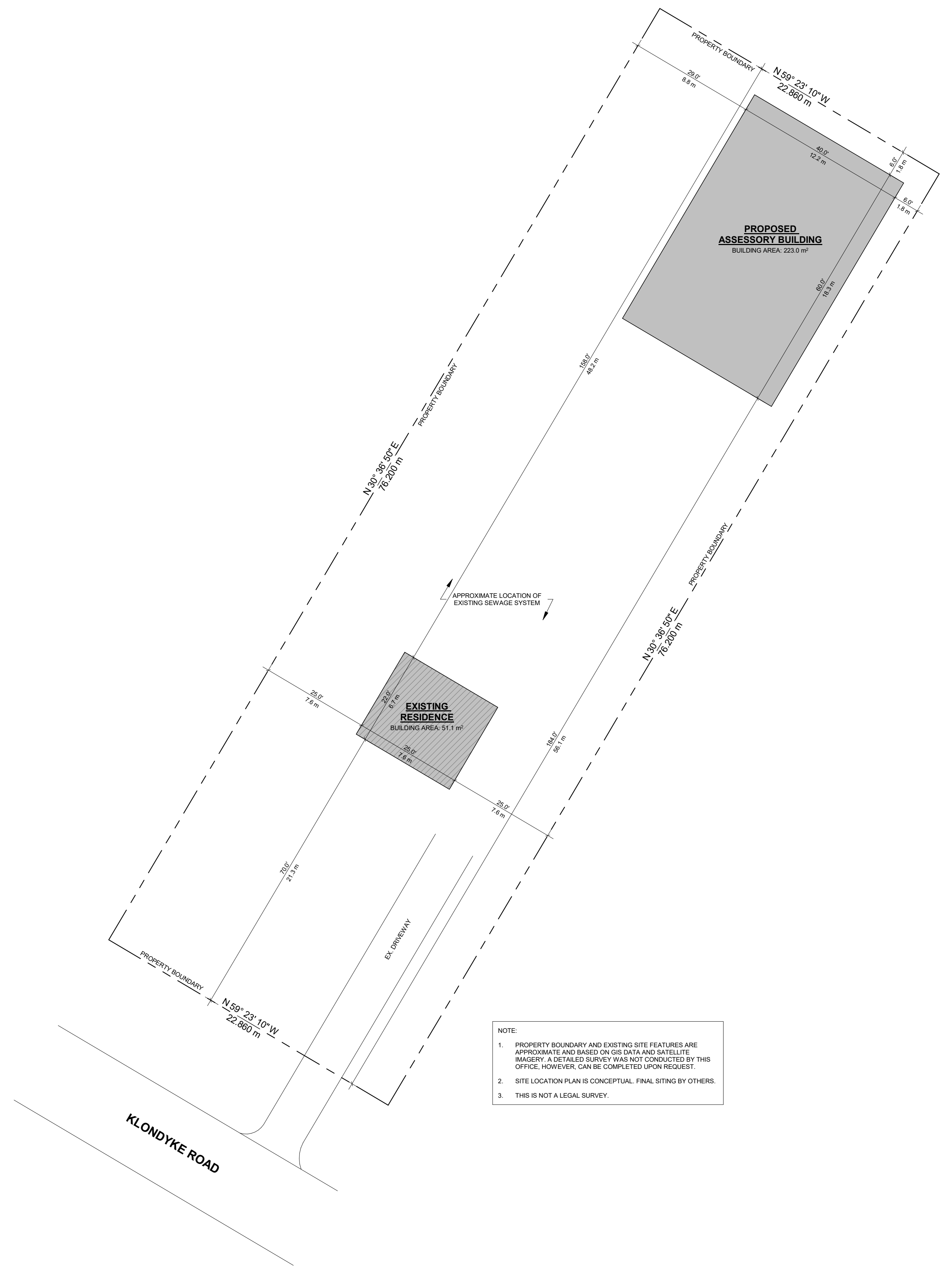
TOP CHORD DEAD LOAD	0.15 kPa (3.1 psf)
BOTTOM CHORD DEAD LOAD	0.35 kPa (7.3 psf) 0.50 kPa (10.4 psf)

WIND PRESSURE

q 150 YEAR	0.49 kPa (10.2 psf)
q 110 YEAR	0.38 kPa (7.9 psf)
WIND DESIGN CATEGORY	CATEGORY 2
TERRAIN	OPEN
NET WIND UPLIFT	0.96 kPa (20.0 psf)
NET UNBALANCED UPLIFT	0.46 kPa (10.6 psf)
SITE CLASSIFICATION (ASSUMED)	D

NOTE: ALL DESIGN LOADS ARE UNFACTORED

MUNICIPALITY OF LAMBTON SHORES		PROPOSED USE 'ACCESSORY BUILDING'	
ZONING BY-LAW #2003 RESIDENTIAL - 6 (R6) ZONE (SCHEDULE 'A'-1)			
DETAIL	REQUIRED	PROPOSED	COMMENTS
LOT AREA	4,000 m ² (min.)	1,741.9 m ²	---
PROPERTY FRONTAGE	30 m (min.)	22.86 m	---
INTERIOR SIDE YARD	1.0 m (min.)	1.8 m	---
REAR YARD	1.0 m (min.)	1.8 m	---
LOT COVERAGE	10 % (max.)	12.8 %	***MINOR VARIANCE REQUIRED***
BUILDING AREA	93 m ² (max.)	223 m ²	***MINOR VARIANCE REQUIRED***
BUILDING HEIGHT	6.1 m (max.)	6.6 m	***MINOR VARIANCE REQUIRED***



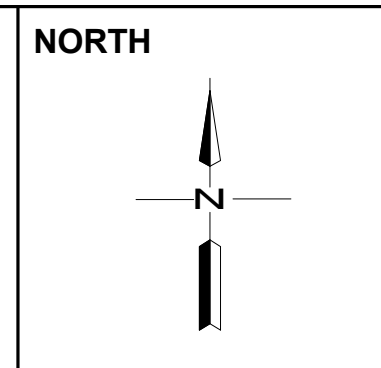
NOTE:

- PROPERTY BOUNDARY AND EXISTING SITE FEATURES ARE APPROXIMATE AND BASED ON GIS DATA AND SATELLITE IMAGERY. A DETAILED SURVEY WAS NOT CONDUCTED BY THIS OFFICE, HOWEVER, CAN BE COMPLETED UPON REQUEST.
- SITE LOCATION PLAN IS CONCEPTUAL. FINAL SITING BY OTHERS.
- THIS IS NOT A LEGAL SURVEY.

1 SITE LOCATION PLAN
1/16" = 1'-0"

NOTES:

@	AT	OHD	OVERHEAD DOOR
cw	COMPLETE WITH DIAMETER	PROJ.	PRESSURE TREATED
frr	FIRE-RESISTANCE RATING	rfw	REINFORCED WITH SLICE GATE
fdn	FOUNDATION	t&g	TONGUE AND GROOVE
ew	EACH WAY	top	TOP OF
ex	EXISTING	typ.	TYPICAL
h	HIGH HORIZONTAL	us	UPSIDE
hr	HOOR	v	VERTICAL
llv	LONG LEG VERTICAL	wf	WITH
lvl	LAMINATED VANEER LUMBER	w	W/
max	MAXIMUM	wwm	WELDED WIRE MESH
mb	MINIMUM		
o	ONTARIO BUILDING CODE		
oc	ON CENTER		



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GENERAL NOTES - SITE LOCATION PLAN

PROJECT No.	MR23-435
SHEET No.	S-6
SCALE	As indicated