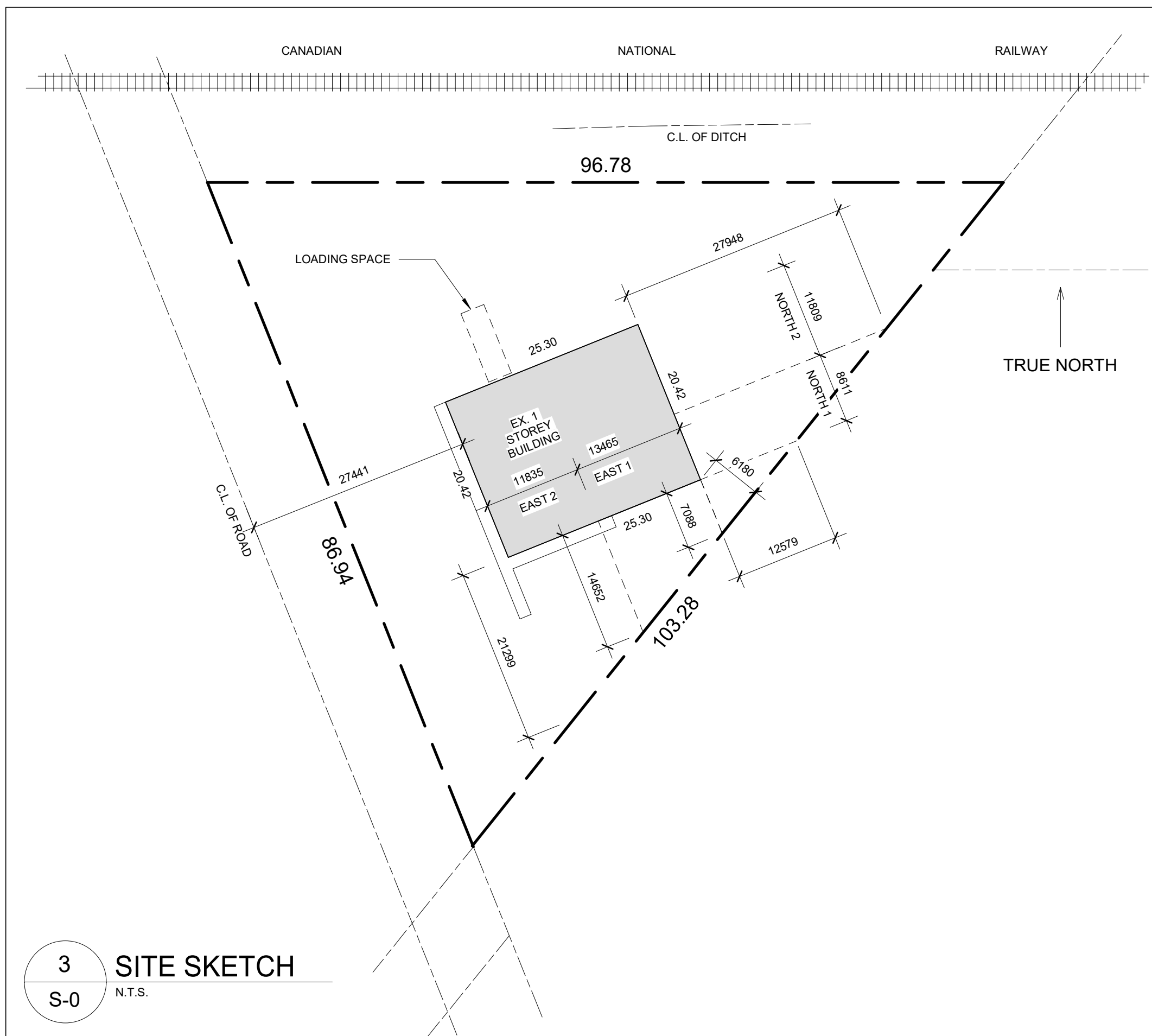
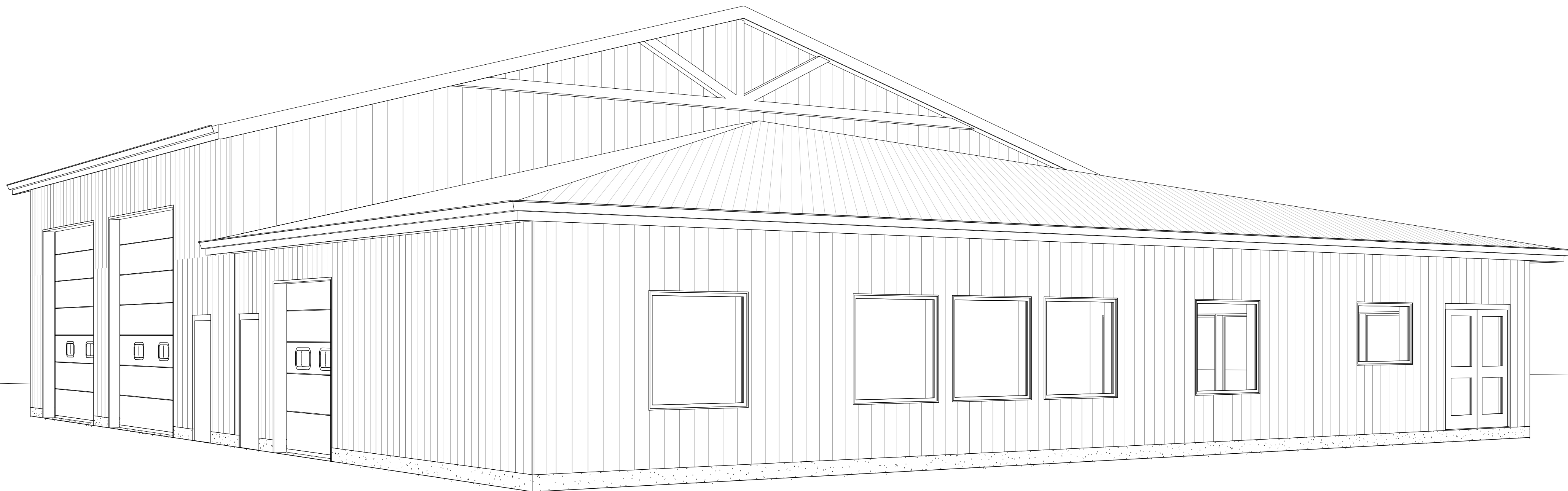


DRAWINGS PROVIDED FOR

STUBBES PRECAST

STUBBES WAREHOUSE

1418 BELL MILL SIDEROAD, TILLSONBURG ON



ENERGY EFFICIENCY COMPLIANCE PATH	
ASHRAE 90.1 + SB-10 CHAPTER 2 - PRESCRIPTIVE COMPLIANCE ACHIEVE THE ENERGY EFFICIENCY LEVELS ATTAINED BY CONFORMING TO THE ASHRAE 90.1-2010, "ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS" AND CHAPTER 2 OF SB-10 (DIVISION 3)	<input checked="" type="checkbox"/> OFFICE
ENERGY MODEL - PERFORMANCE DESIGN BUILDING ENERGY EFFICIENCY DESIGN MUST CONFORM TO THE FOLLOWING ENERGY MODEL: EXCEED BY NOT LESS THAN 35% THE ENERGY EFFICIENCY LEVELS ATTAINED BY CONFORMING TO THE CCBFC, "MODEL NATIONAL ENERGY CODE FOR BUILDINGS (MNECB)." EXCEED BY NOT LESS THAN 17.5% THE ENERGY EFFICIENCY LEVELS ATTAINED BY CONFORMING TO THE ANSI/ASHRAE/IESNA 90.1-2010 "ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS." EXCEED BY NOT LESS THAN 13% THE ENERGY EFFICIENCY LEVELS ATTAINED BY CONFORMING TO THE 2011 NECB & CHAPTER 3 (DIVISION 2) OF SB-10	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
SB-10 DIVISION 5 PART 9 NON-RESIDENTIAL BUILDING	<input type="checkbox"/>
THIS BUILDING IS EXEMPT FROM COMPLIANCE BECAUSE IT IS: <input type="checkbox"/> A FARM BUILDING <input type="checkbox"/> A HERITAGE BUILDING <input type="checkbox"/> A TEMPORARY STRUCTURE (IE. TENT, AIR-SUPPORTED STRUCTURE, TRAILER) <input type="checkbox"/> A BUILDING WHERE THE ENVIRONMENTAL CONDITION IS GOVERNED BY THE PROCESS <input type="checkbox"/> A BUILDING THAT USES LESS THAN 12 W/m ² UNDER PEAK CONDITIONS <input checked="" type="checkbox"/> A WAREHOUSE OR STORAGE ROOM WHERE THE DESIGN INDOOR TEMPERATURE DOES NOT EXCEED 10°C (SB-10 1.2.1.1. (2)(b)) A BUILDING EXEMPTED UNDER SB-10 TABLE 1.2.1.1. STATE THE TYPE OF BUILDING	<input checked="" type="checkbox"/> WAREHOUSE

SB-10 REPORT (OFFICE)	
LOCATION: TILLSONBURG ONTARIO	H.D.D. 3840
SB-10 REF.: TABLE 1.1.1.2.	ZONE: 5 (>4000, <5000 H.D.D.)
REQUIRED INSULATION VALUES	
ROOF: ATTIC	R-60
WALLS	
ABOVE GRADE: WOOD FRAMED	R-13 + 15ci
BELOW GRADE:	R-20ci
FLOORS	
S.O.G.: UNHEATED	R-15 FOR 48"
OPAQUE DOORS	
SWINGING:	U-0.45
NONSWINGING:	U-0.45
FENESTRATION VALUES	
DOORS OTHER THAN ENTRANCE	U-0.38 / SHGC-0.40
ENTRANCE DOOR:	U-0.45 / SHGC-0.40

DESIGNLOGIX ENGINEERING 557 ALBERTA AVE. WOODSTOCK, ONTARIO, N4S 1E5											
Name of Project: STUBBES WAREHOUSE Location: 1418 BELL MILL SIDEROAD, TILLSONBURG ON											
ITEM	ONTARIO BUILDING CODE DATA MATRIX PARTS 3 or 9 OFFICE AREA						Building Code Reference References are to Division B unless noted [A] for Division A or [C] for Division C				
1.	PROJECT DESCRIPTION: <input type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF USE <input checked="" type="checkbox"/> ALTERATION						<input type="checkbox"/> PART 11 11.1 to 11.4	<input type="checkbox"/> PART 3 1.1.2. [A]	<input checked="" type="checkbox"/> PART 9 1.1.2.[A] & 9.10.1.3.		
2.	MAJOR OCCUPANCY(S): GROUP F2 & GROUP D						3.1.2.1.(1)		9.10.2		
3.	BUILDING AREA (m ²) EXISTING: 516.27 NEW: 0.00 TOTAL: 516.27						1.4.1.2. [A]		1.4.1.2. [A]		
4.	GROSS AREA EXISTING: 516.27 NEW: 0.00 TOTAL: 1,120						1.4.1.2. [A]		1.4.1.2. [A]		
5.	NUMBER OF STOREYS ABOVE GRADE: 1 BELOW GRADE: 0						1.4.1.2. [A] & 3.2.1.1.		1.4.1.2. [A] & 9.10.4.		
6.	NUMBER OF STREETS/FIRE FIGHTER ACCESS 1						3.2.2.10. & 3.2.5		9.10.20.		
7.	BUILDING CLASSIFICATION: GROUP D - BUSINESS AND PERSONAL SERVICES GROUP F2 - MED. HAZARD INDUSTRIAL						3.2.2.		9.10.2.		
8.	SPRINKLER SYSTEM PROPOSED <input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> SELECTED COMPARTMENTS <input type="checkbox"/> SELECTED FLOOR AREAS <input type="checkbox"/> BASEMENT <input type="checkbox"/> IN LIEU OF ROOF RATING <input checked="" type="checkbox"/> NOT REQUIRED						3.2.2.53. INDEX		9.10.8.2. INDEX		
9.	STANDPIPE REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						3.2.9		N/A		
10.	FIRE ALARM REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						3.2.4.		9.10.18.		
11.	WATER SERVICE/SUPPLY IS ADEQUATE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						3.2.5.7		N/A		
12.	HIGH BUILDING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						3.2.6.		N/A		
13.	CONSTRUCTION RESTRICTIONS <input type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON-COMBUSTIBLE <input checked="" type="checkbox"/> BOTH						3.2.2.53.		9.10.6		
ACTUAL CONSTRUCTION <input checked="" type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> BOTH											
14.	MEZZANINE(S) AREA m ² N/A						3.2.1.1.(3)-(8)		9.10.4.1		
15.	OCCUPANT LOAD BASED ON: <input type="checkbox"/> m ² /PERSON <input checked="" type="checkbox"/> DESIGN OF BUILDING SHOP OCCUPANCY: INDUSTRIAL SHOP & OFFICE LOAD: 18 MAX. PERSONS						3.1.17.		9.9.1.3		
16.	BARRIER FREE DESIGN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (EXPLAIN)						3.8		9.5.2		
17.	HAZARDOUS SUBSTANCES <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						3.3.1.2. & 3.3.1.19.		9.10.1.3 (4)		
18.	REQUIRED FIRE RESISTANCE RATING (F.R.R.)		HORIZONTAL ASSEMBLIES F.R.R. (HOURS) FLOORS N/A ROOF N/A MEZZANINE N/A F.R.R. OF SUPPORTING MEMBERS		LISTED DESIGN No. or DESCRIPTION (SB-2) N/A N/A N/A LISTED DESIGN No. or DESCRIPTION (SB-2) N/A N/A N/A		3.2.2.55		9.10.8 9.10.9		
19.	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS						3.2.3		9.10.14.		
	WALL	AREA OF EBF (m ²)	L.D. (m)	L/H or % OF OPENINGS	PERMITTED MAX. PROPOSED % OF OPENINGS	F.R.R. (HOURS)	LISTED DESIGN or DESCRIPTION	COMB. CONST.	COMB. CONSTR. NONC. CLADDING		
	NORTH 1	40.00	12.58	3:1-10:1	100	100	N/A	STEEL CLAD ON WOOD FRAME	X		
	NORTH 2	54.88	27.95	3:1-10:1	100	100	N/A	STEEL CLAD ON WOOD FRAME	X		
	EAST 1	62.62	7.08	3:1-10:1	36.16	36.16	1 HR	STEEL CLAD ON WOOD FRAME	X		
	EAST 2	42.16	14.03	3:1-10:1	100	100	N/A	STEEL CLAD ON WOOD FRAME	X		
	SOUTH	61.58	27.77	3:1-10:1	100	100	N/A	STEEL CLAD ON WOOD FRAME	X		
	WEST	88.35	17.18	3:1-10:1	100	100	N/A	STEEL CLAD ON WOOD FRAME	X		
20.	PLUMBING FIXTURE REQUIREMENTS 3.7.4.3. MALE/FEMALE COUNT @ 50% / 50%, EXCEPT AS NOTED OTHERWISE 1st FLOOR: OCCUPANCY GROUP D, OCCUPANCY GROUP F2 O.B.C. 3.7.4.2.(8) ONE UNIVERSAL WASHROOM AND ONE REGULAR WASHROOM PROVIDED IN LIEU OF ONE WASHROOM FOR MALES AND ONE WASHROOM FOR FEMALES.						OCCUPANT LOAD NUMBER 9 MAX. 3.7.4.7.(1) 9 MAX. 3.7.4.7.(1) ----- -----		BC TABLE NUMBER REQUIRED 1 EA. 1 EA. ----- -----	FIXTURES PROVIDED 1 EA. 1 EA. ----- -----	Building Code Reference <input checked="" type="checkbox"/> PART 3 <input type="checkbox"/> PART 9
21.	NOTES: PORTABLE FIRE EXTINGUISHERS - (2012 OBC PART 3, DIV. B - 3.2.5.17.) PORTABLE FIRE EXTINGUISHERS MUST BE INSTALLED AS REQUIRED BY THE ONTARIO FIRE CODE/ONTARIO BUILDING CODE										

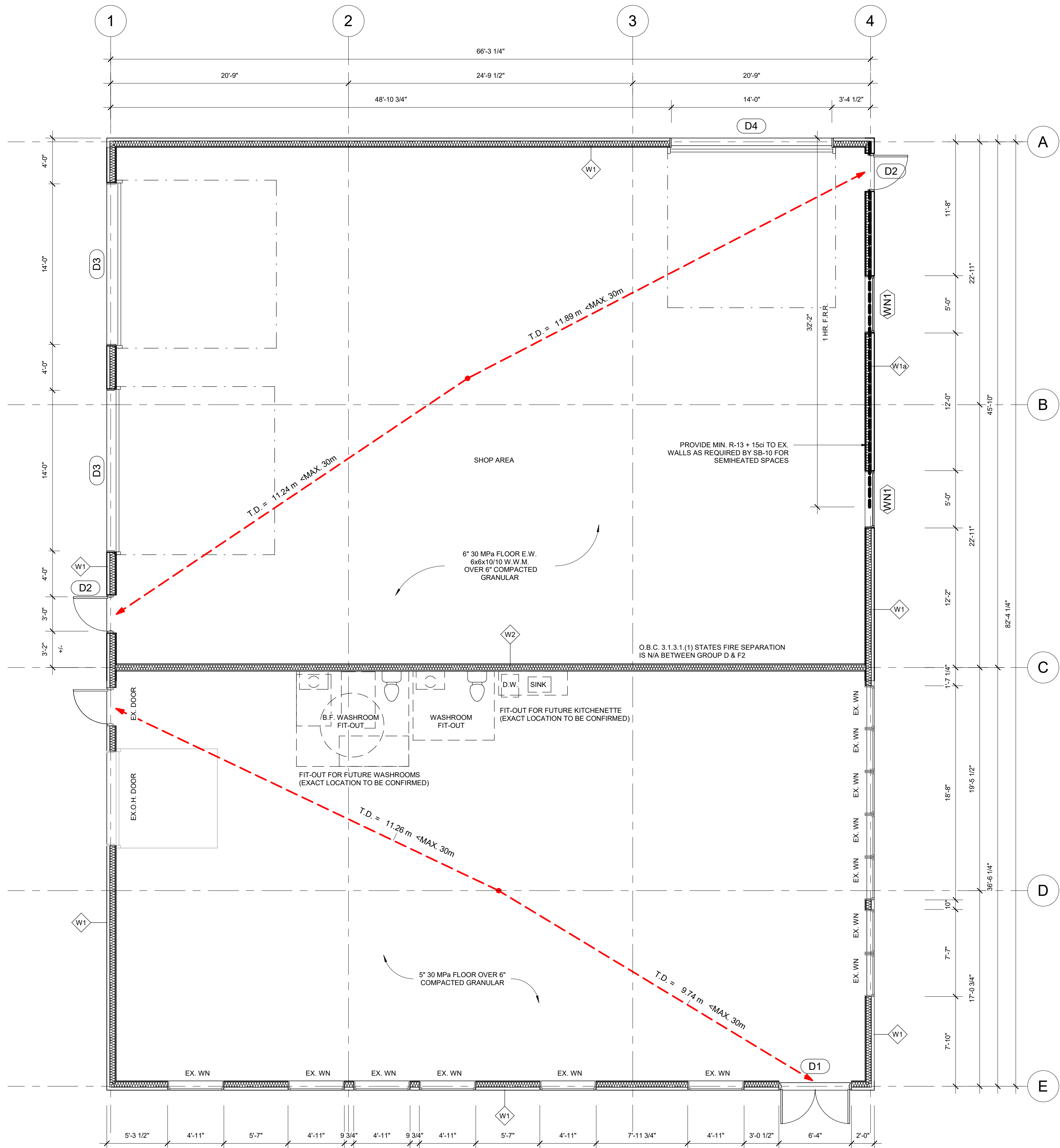
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PROJECT STATUS:		
NO:	DATE:	STATUS:
1	2024/01/15	FOR APPROVAL
2	2024/01/16	FOR APPROVAL
3	2024/01/30	FOR PERMIT

CONTRACTOR NAME & ADDRESS: STUBBES PRECAST 44 MUIR LINE, HARLEY, ON N0E 1E0	
PROJECT NORTH:	TRUE NORTH:
Project #:	DLX24-008
Drawn by:	A.F.
Checked by:	N.H.

PROJECT NAME & ADDRESS: STUBBES NEW WAREHOUSE 1418 BELL MILL SIDEROAD, TILLSONBURG ON	
DRAWING TITLE: COVER SHEET	
Date 2024/01/30	Scale As indicated
Sheet No. S-0	



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

WALL SCHEDULE	
EXTERIOR WALLS:	
W1	EXTERIOR 2x6 WALL: 24 GAUGE STEEL SIDING (TYPE TBD) FURRING AND RAINSCREEN LAYER TO MATCH EXISTING TYVEK AIR BARRIER RIGID INSUL. PER SB-10 (R15ci) PLYWOOD SHEATHING 2x6 WOOD STUDS @ 16" O.C. R13 BATT INSULATION 6mil. POLY VAPOUR BARRIER 1/2" GYP. BOARD
W1a	EXTERIOR 2x6 WALL: 24 GAUGE STEEL SIDING (TYPE TBD) FURRING AND RAINSCREEN LAYER TO MATCH EXISTING TYVEK AIR BARRIER RIGID INSUL. PER SB-10 (R15ci) PLYWOOD SHEATHING 2x6 WOOD STUDS @ 16" O.C. R13 BATT INSULATION 6mil. POLY VAPOUR BARRIER 1 LAYER 5/8" TYPE 'X' GYP. BD.
NOTES:	
1.	PROVIDE 1 LAYER 5/8" TYPE 'X' GYP. BD. TO AREAS REQUIRING 1 HR. F.R.R.
2.	NEW EXTERIOR WALL FRAMING TO MATCH EXISTING ASSEMBLIES. G.C. TO VERIFY AND COORDINATE.

WALL SCHEDULE	
INTERIOR WALLS:	
W2	INTERIOR 2x6 OCCUPANCY SEPARATION: 1/2" GYP. BOARD TYVEK AIR BARRIER RIGID INSUL. PER SB-10 (R15ci) 2x6 WOOD STUDS @ 16" O.C. R13 BATT INSULATION 6mil. POLY VAPOUR BARRIER 1/2" GYP. BOARD

WINDOW SCHEDULE				
NO.	Type	HEADER	POST	COUNT
WN1	5'-0" x 4'-0" FIXED WINDOW	3-2x10	1J + 2K	2

DOOR SCHEDULE				
NO.	DESCRIPTION	HEADER	POST	COUNT
D1	DOUBLE LEAF FRONT ENTRANCE DOOR	3-2x10	1J + 2K	1
D2	SINGLE LEAF EXTERIOR MAN DOOR	3-2x10	1J + 1K	2
D3	INSULATED 14' x 14' OVERHEAD DOOR	3-1.75x16" 2.0E LVL	3J + 3K	2
D4	INSULATED 14' x 14' OVERHEAD DOOR	2-2x10 1J + 3K	3J + 3K	1



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CONTRACTOR NAME & ADDRESS:
STUBBES PRECAST
44 MUIR LINE, HARLEY, ON N0E 1E0

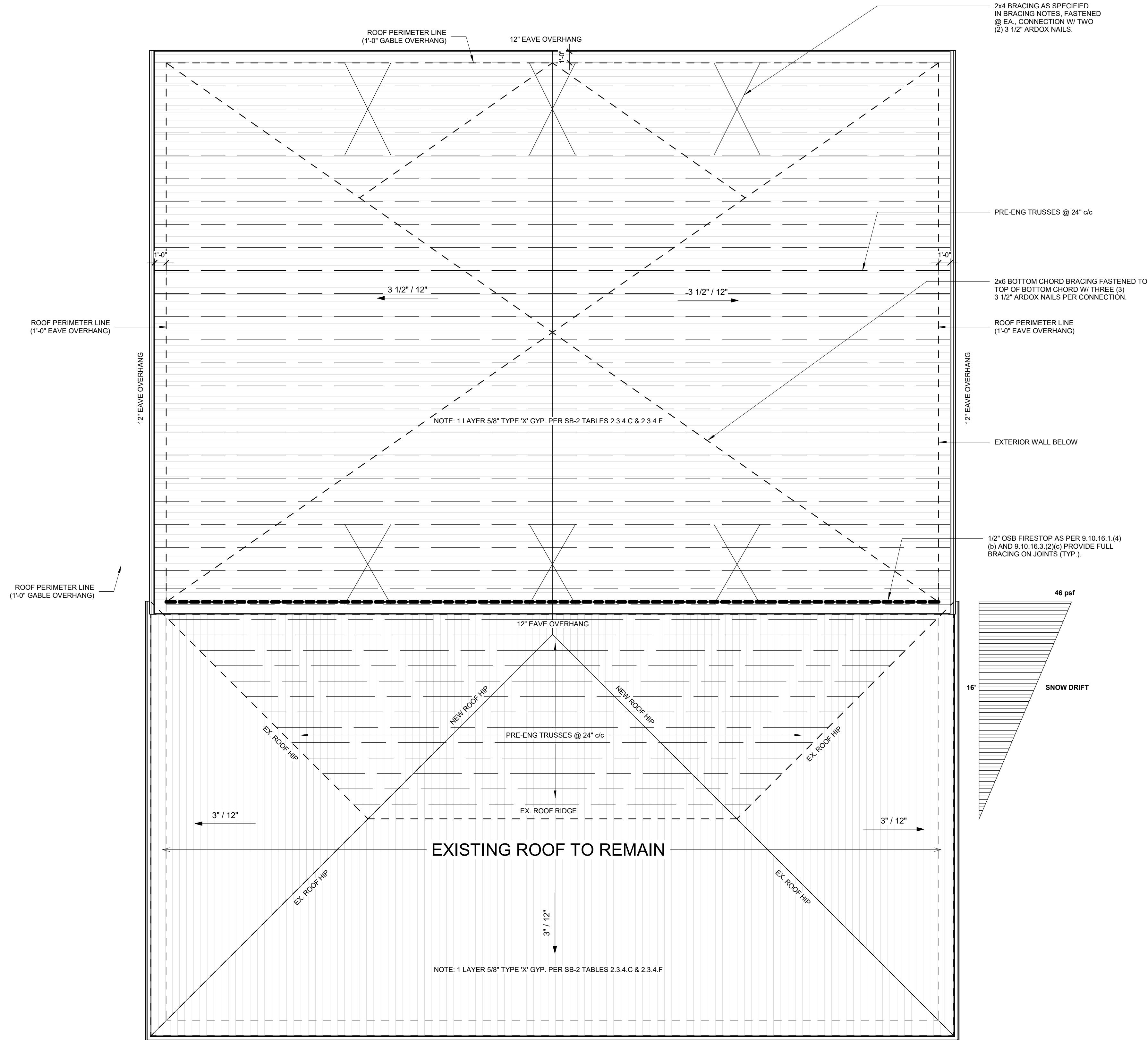
PROJECT NAME & ADDRESS:
STUBBES NEW WAREHOUSE
1418 BELL MILL SIDEROAD,
TILLSONBURG ON

PROJECT NORTH:
TRUE NORTH:

Project #:
DLX24-008
Drawn by:
A.F.
Checked by:
N.H.

DRAWING TITLE:
GROUND FLOOR PLAN

Date:
2024/01/30
Scale:
As indicated
Sheet No.
S-1



TRUSS BRACING SHOWN IS REPRESENTATIVE ONLY. REFER TO BRACING NOTES (PAGE NT) AND STAMPED TRUSS DRAWINGS (DESIGNED BY OTHERS) FOR FULL DETAILS

CONTRACTOR TO FORWARD STAMPED COPY OF TRUSS DRAWINGS TO DESIGNLOGIX ENGINEERING PRIOR TO FRAMING INSPECTION

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ABBREVIATIONS			
@	AT	D.H.	OVERHEAD
Ø	COMPLETE WITH	PF	PAD FOOTING
Ø	DIAMETER	P.T.	PRESSURE TREATED
FDN	FOUNDATION	T.D.	TRAVEL DISTANCE
E.W.	EACH WAY	T&G	TONGUE & GROOVE
EX	EXISTING	T/O	TOP OF
HORIZ	HORIZONTAL	TYP.	TYPICAL
LVL	LAMINATED VENEER LUMBER	US	UNDERSIDE
MAX	MAXIMUM	VERT.	VERTICAL
MIN	MINIMUM	W	WITH
ØBC	ONTARIO BUILDING CODE	WWM	WELDED WIRE MESH
c/c	CENTRE TO CENTRE		

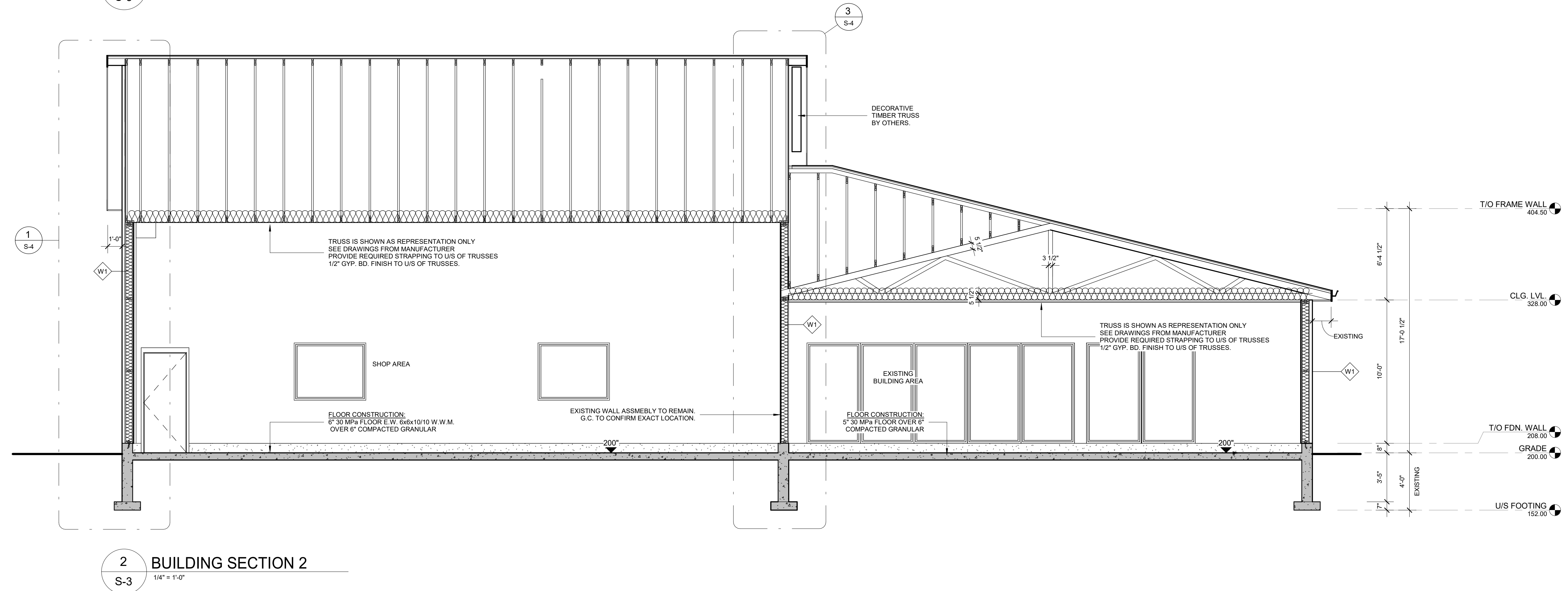
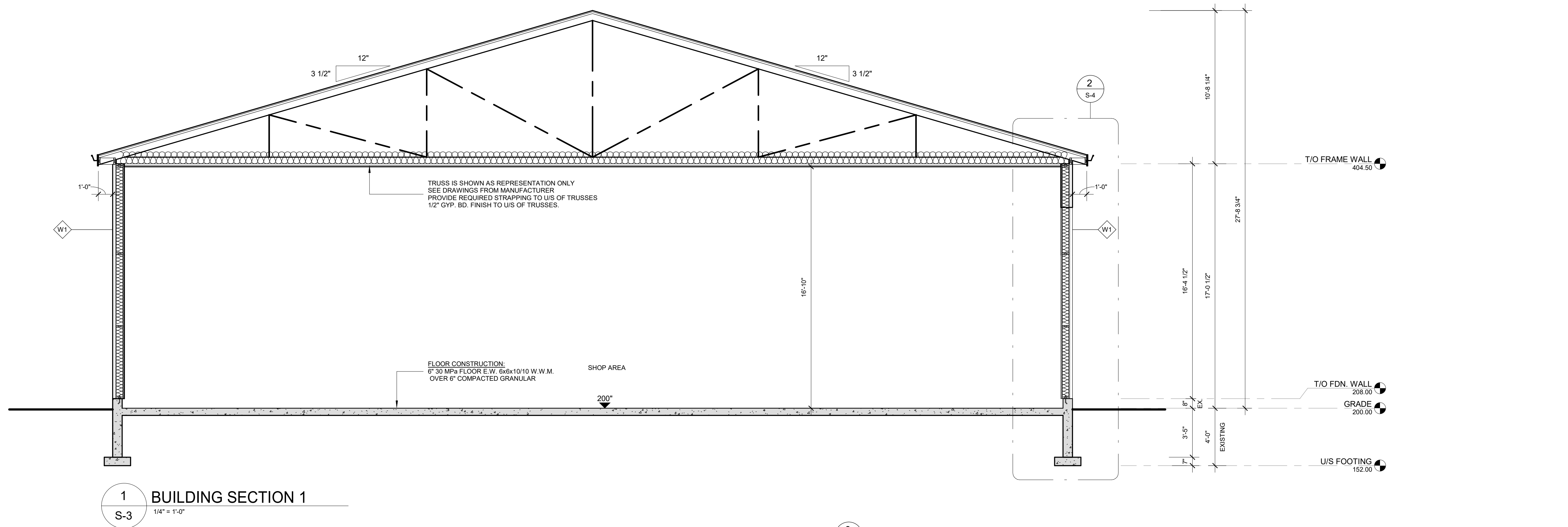
LEGEND	
W	WALL TAG
WN	WINDOW TAG
D	DOOR TAG
0.0'	ELEVATION MARKER - PLAN
0.0'	ELEVATION MARKER - SECTION
200'	TRAVEL DISTANCE

PROJECT STATUS:		
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CONTRACTOR NAME & ADDRESS:	
STUBBES PRECAST 44 MUIR LINE, HARLEY, ON N0E 1E0	
PROJECT NORTH:	TRUE NORTH:
Project #:	DLX24-008
Drawn by:	A.F.
Checked by:	N.H.

PROJECT NAME & ADDRESS:	
STUBBES NEW WAREHOUSE 1418 BELL MILL SIDEROAD, TILLSONBURG ON	
DRAWING TITLE:	
ROOF PLAN	

Date	2024/01/30
Scale	As indicated
Sheet No.	S-2



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ABBREVIATIONS

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E.W.	EACH WAY	T&G	TONGUE & GROOVE
EX.	EXISTING	T/O	TOP OF
HORIZ.	HORIZONTAL	TYP.	TYPICAL
LVL.	LAMINATED VENEER LUMBER	U/S	UNDERSIDE
MAX.	MAXIMUM	VERT.	VERTICAL
MIN.	MINIMUM	W.	WIDTH
OBC	ONTARIO BUILDING CODE	WWM	WELDED WIRE MESH
O/C	CENTRE TO CENTRE		

LEGEND

W	WALL TAG
WN	WINDOW TAG
D	DOOR TAG
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200'	ELEVATION MARKER - SECTION
---	TRAVEL DISTANCE

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CONTRACTOR NAME & ADDRESS:

STUBBES PRECAST
44 MUIR LINE, HARLEY, ON N0E
1E0

PROJECT NORTH: TRUE NORTH:

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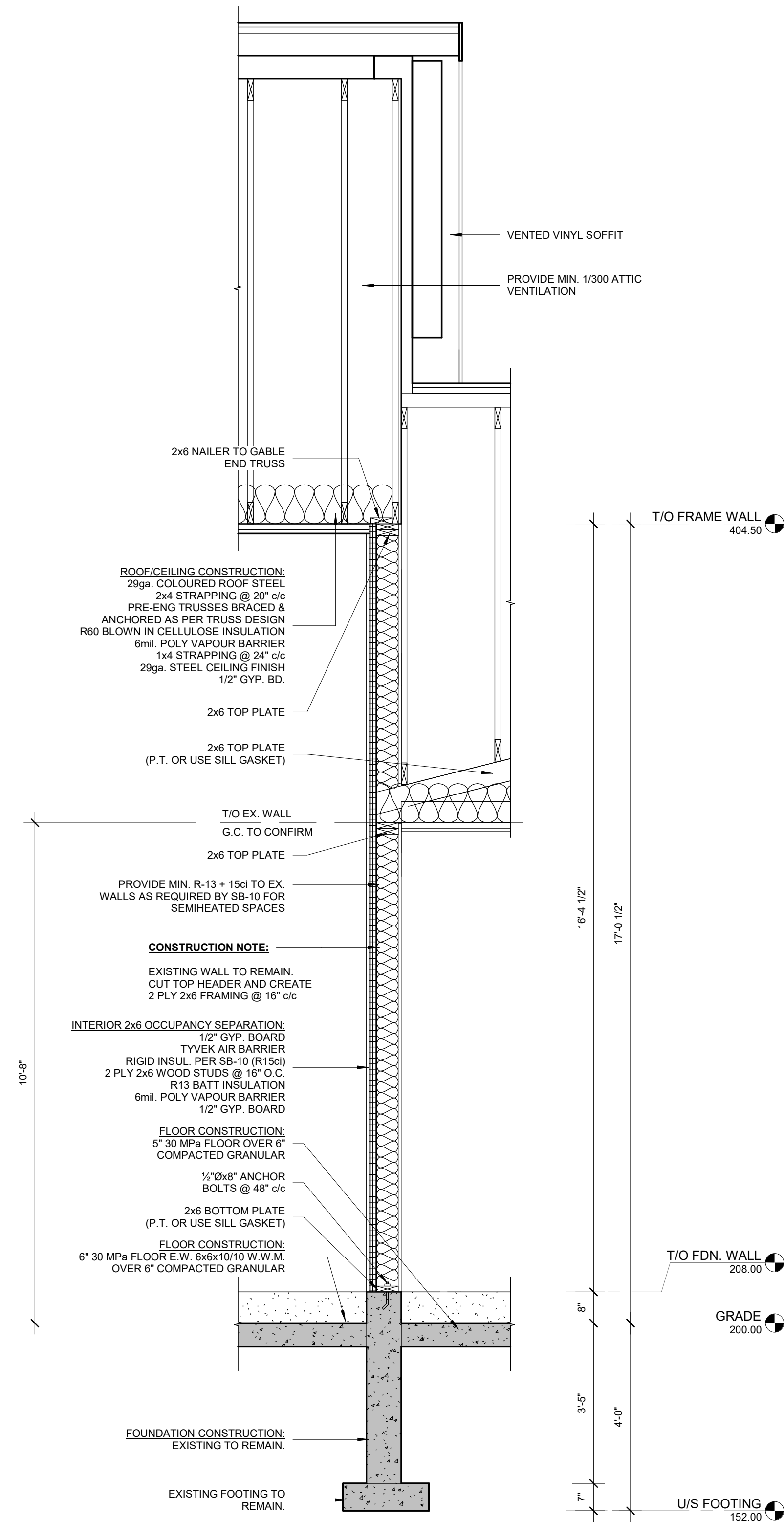
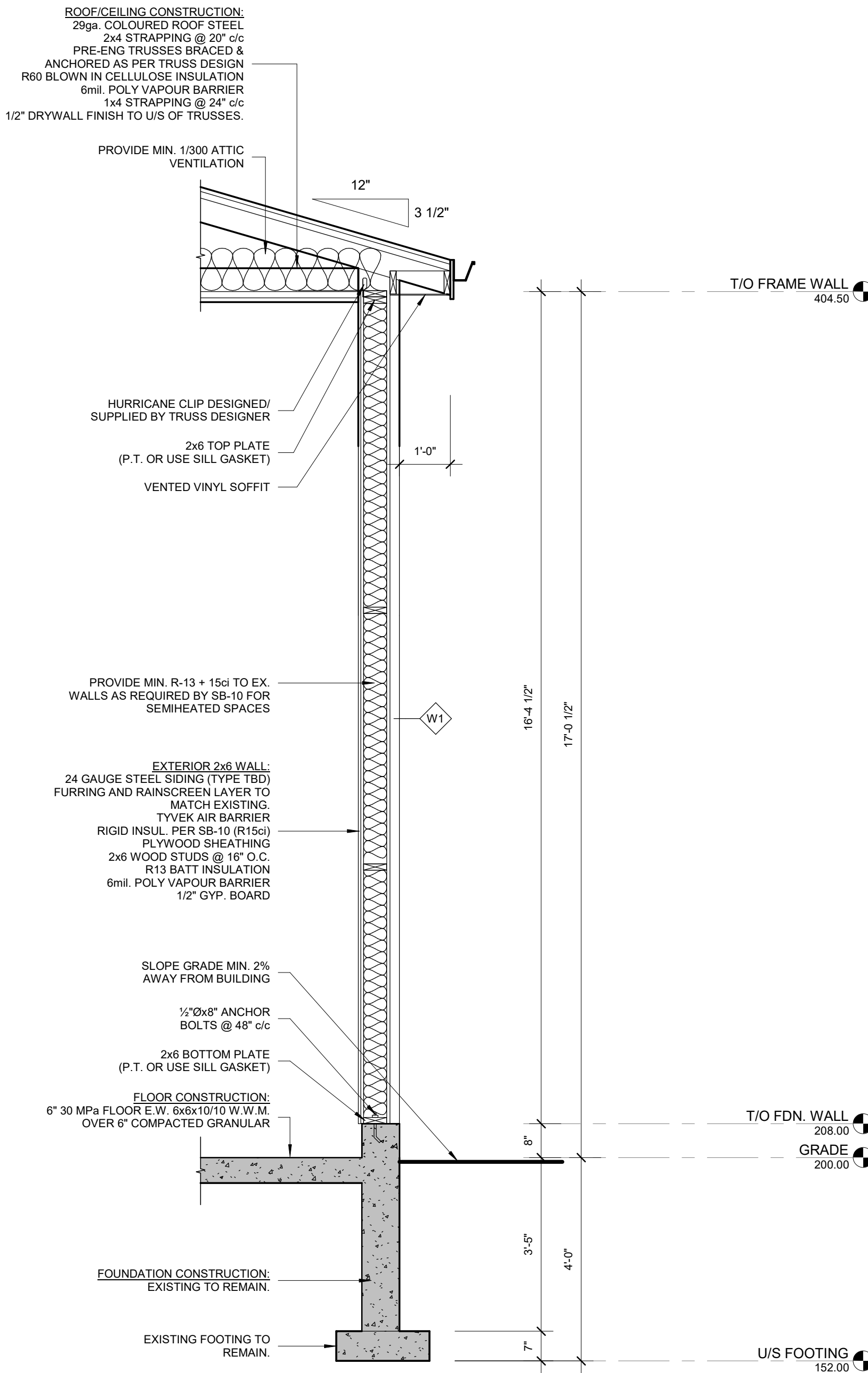
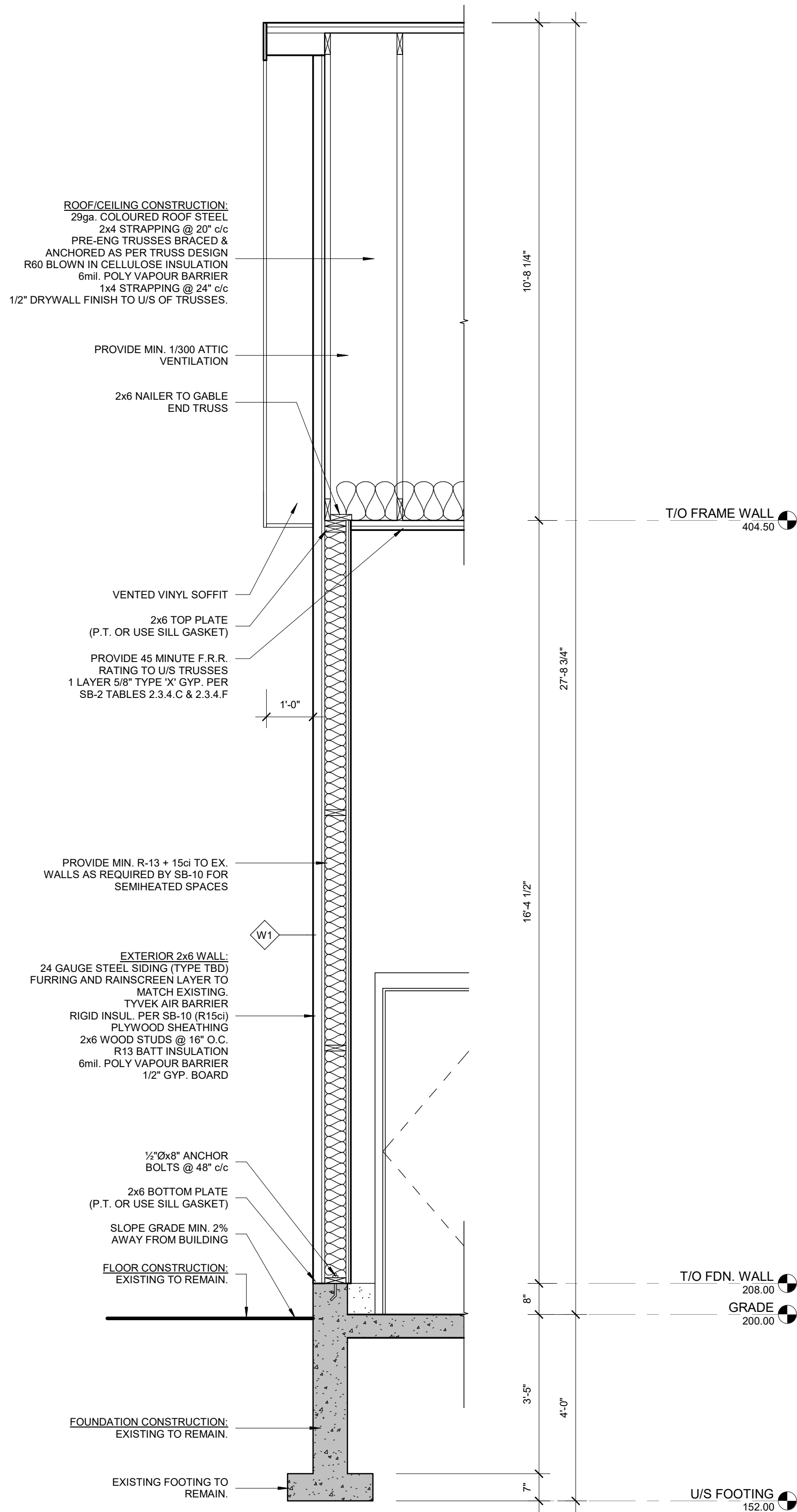
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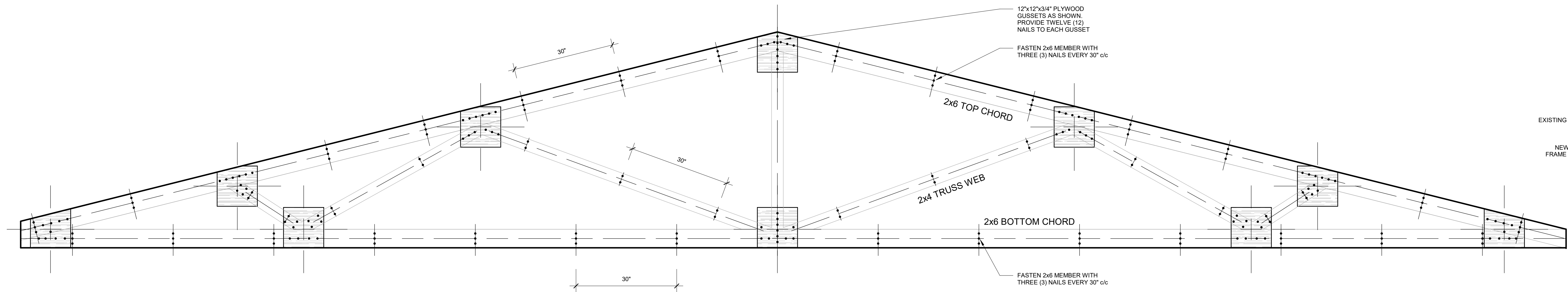
STUBBES NEW WAREHOUSE
1418 BELL MILL SIDEROAD,
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DRAWING TITLE:

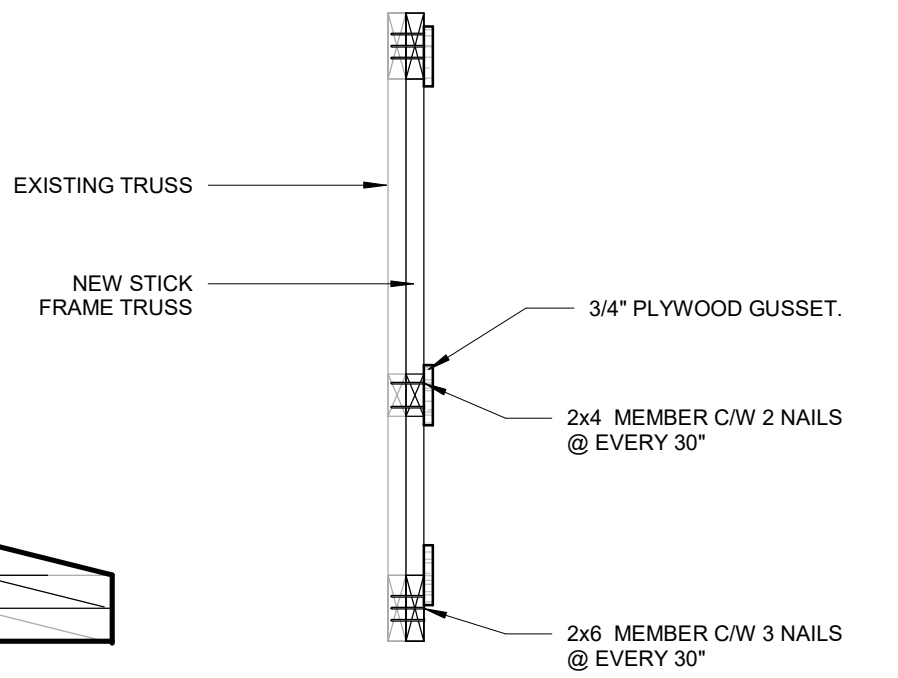
BUILDING SECTIONS

Date	2024/01/30
Scale	1/4" = 1'-0"
Sheet No.	S-3

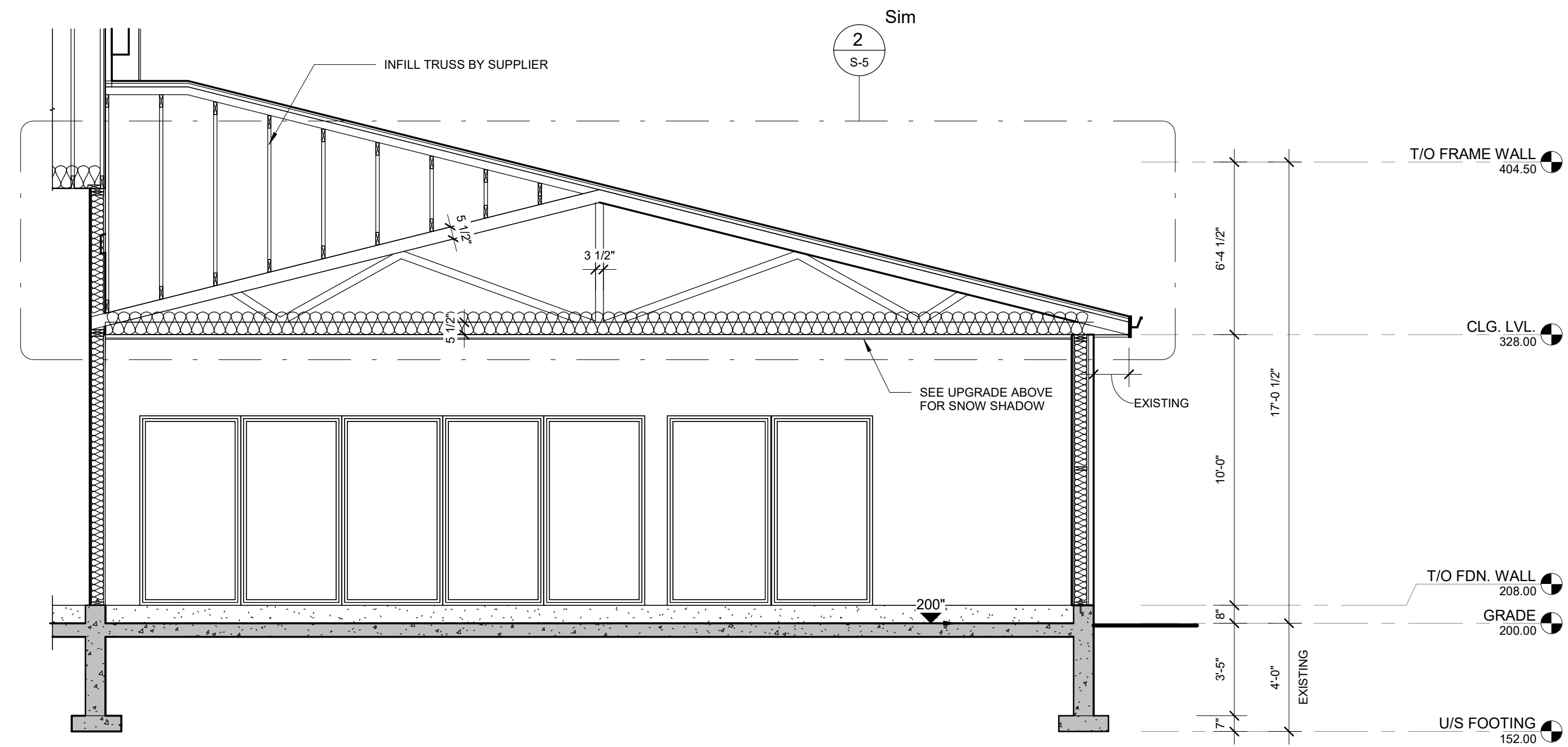




TRUSS UPGRADE DETAIL



TRUSS SECTION



1 EXISTING TRUSS SECTION
S-5
1/4" = 1'-0"

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ABBREVIATIONS			
@	AT	O.H.	OVERHEAD
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EX.	EXISTING	T/O	TOP OF
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LVL	LAMINATED VENEER LUMBER	U/S	UNDERSIDE
MAX.	MAXIMUM	VERT.	VERTICAL
MIN.	MINIMUM	W.	WITH
OBC	ONTARIO BUILDING CODE	WWM	WELDED WIRE MESH
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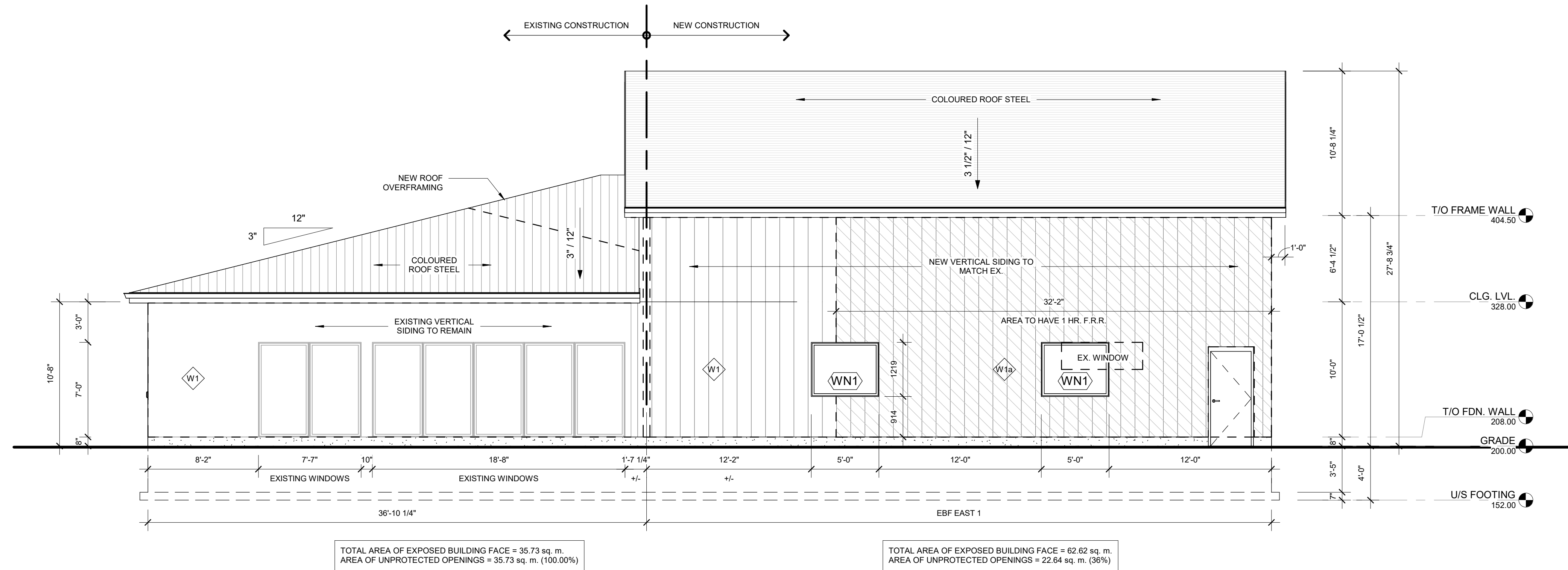
LEGEND	
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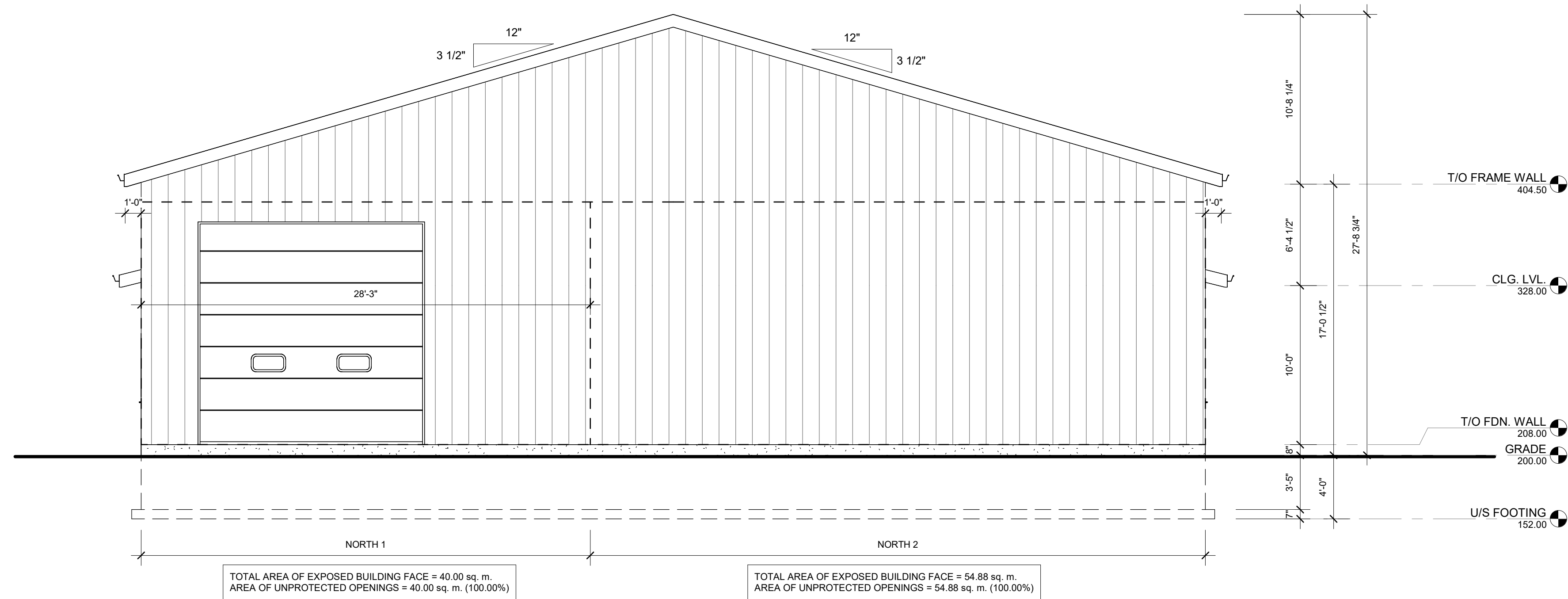
CONTRACTOR NAME & ADDRESS:	
STUBBES PRECAST 44 MUIR LINE, HARLEY, ON N0E 1E0	
PROJECT NORTH:	TRUE NORTH:
Project #:	DLX24-008
Drawn by:	A.F.
Checked by:	N.H.

PROJECT NAME & ADDRESS:	
STUBBES NEW WAREHOUSE 1418 BELL MILL SIDEROAD, TILLSONBURG ON	
DRAWING TITLE:	
TRUSS DETAILS	

Date	2024/01/30
Scale	As indicated
Sheet No.	S-5



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



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

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LVL	LAMINATED VENEER LUMBER	U/S	UNDERSIDE
MAX.	MAXIMUM	VERT.	VERTICAL
MIN.	MINIMUM	W/	WITH
OBC	ONTARIO BUILDING CODE	WWM	WELDED WIRE MESH
c/c	CENTRE TO CENTRE		

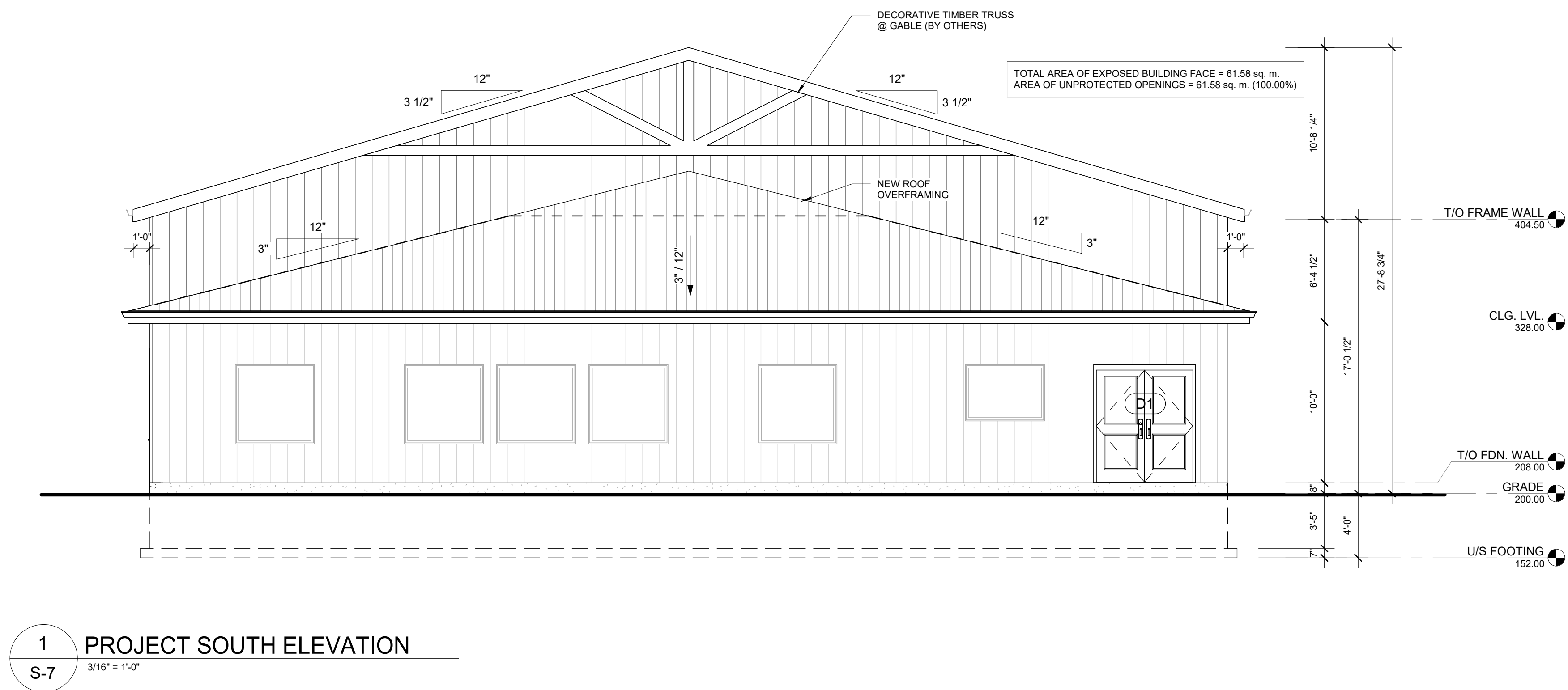
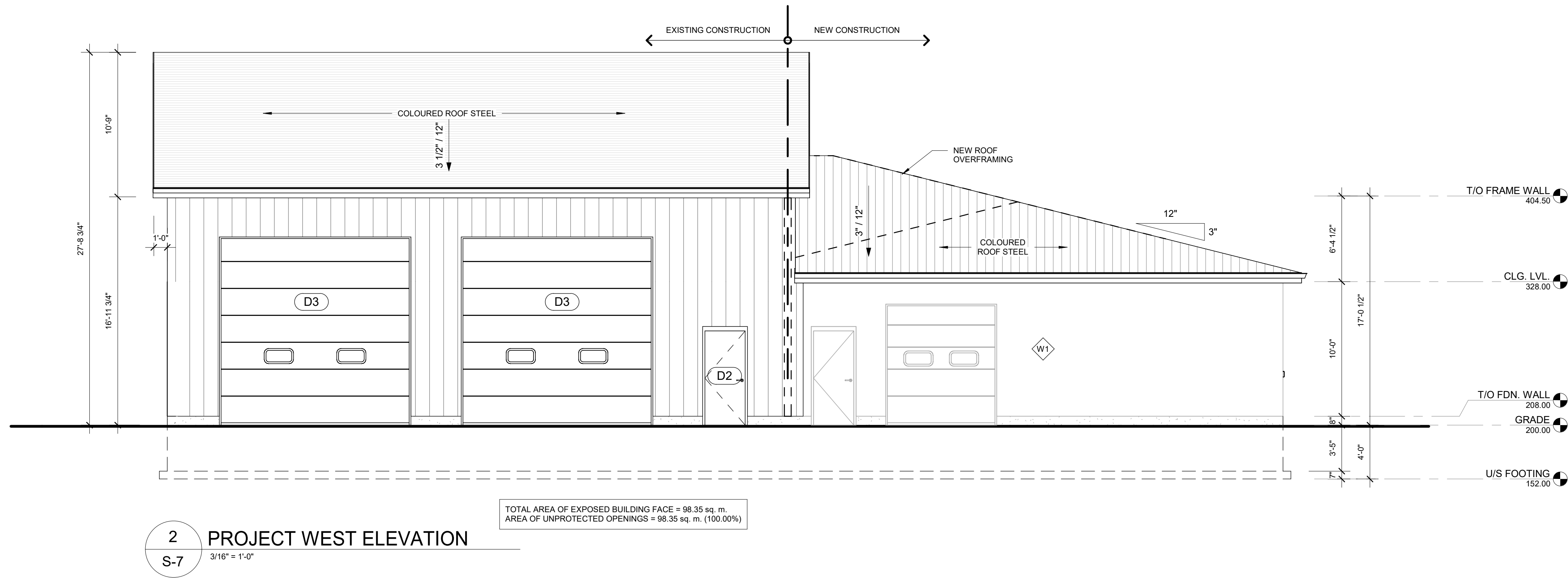
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0.0'	ELEVATION MARKER - PLAN
200'	ELEVATION MARKER - SECTION
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CONTRACTOR NAME & ADDRESS:	
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PROJECT NORTH:	TRUE NORTH:
Project #:	DLX24-008
Drawn by:	A.F.
Checked by:	N.H.

PROJECT NAME & ADDRESS:	
STUBBES NEW WAREHOUSE 1418 BELL MILL SIDEROAD, TILLSONBURG ON	
DRAWING TITLE:	
ELEVATIONS	

Date	2024/01/30
Scale	3/16" = 1'-0"
Sheet No.	S-6



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BY THE CONTRACTOR AND ANY DISCREPANCIES
REPORTED TO THE ENGINEER



ABBREVIATIONS

@	AT	O.H.	OVERHEAD
@W	COMPLETE WITH	PF	PAD FOOTING
@	DIAMETER	P.T.	PRESSURE TREATED
FDN	FOUNDATION	T.D.	TRAVEL DISTANCE
E.W.	EACH WAY	T&G	TONGUE & GROOVE
EX.	EXISTING	T/O	TOP OF
HORIZ	HORIZONTAL	TYP.	TYPICAL
LVL	LAMINATED VENEER LUMBER	U/S	UNDERSIDE
MAX.	MAXIMUM	VERT.	VERTICAL
MIN.	MINIMUM	W.	WITH
OBC	ONTARIO BUILDING CODE	WWM	WELDED WIRE MESH
c/c	CENTRE TO CENTRE		

LEGEND

W	WALL TAG
WN	WINDOW TAG
D	DOOR TAG
0.0"	ELEVATION MARKER - PLAN
200"	ELEVATION MARKER - SECTION
TRAVEL DISTANCE	

PROJECT STATUS:

NO:	DATE:	STATUS:
1	2024/01/15	FOR APPROVAL
2	2024/01/16	FOR APPROVAL
3	2024/01/30	FOR PERMIT

CONTRACTOR NAME & ADDRESS:

STUBBES PRECAST
44 MUIR LINE, HARLEY, ON N0E
1E0

PROJECT NORTH:

TRUE NORTH:

Project #:	DLX24-008
Drawn by:	A.F.
Checked by:	N.H.

PROJECT NAME & ADDRESS:

STUBBES NEW WAREHOUSE
1418 BELL MILL SIDEROAD,
TILLSONBURG ON

DRAWING TITLE:

ELEVATIONS

Date

2024/01/30

Scale

3/16" = 1'-0"

Sheet No.

S-7

2024-01-30 5:01:11 PM

GENERAL NOTES:

- THIS BUILDING IS DESIGNATED **(GROUP D & GROUP F2)** (SEE OBC MATRIX TO RIGHT)
- ALL WORK SHALL COMPLY WITH (LATEST EDITIONS):
 - THE ONTARIO BUILDING CODE (O.B.C.)
 - NATIONAL BUILDING CODE (N.B.C.)
 - OHSA REGULATIONS
 - LOCAL REGULATIONS
- THESE DRAWINGS ARE FOR STRUCTURAL DESIGN ONLY. INTERIOR FINISHING AND EQUIPMENT TO BE COORDINATED BY SUPPLIER WITH APPROVAL FROM THE OWNER. ALL INTERIOR WORKS TO BE DESIGNED BY SUPPLIER
- IF DRAWINGS ARE NOT REFLECTIVE OF EXISTING CONDITIONS DESIGNLOGIX IS TO BE NOTIFIED. NO CHANGES SHALL BE MADE WITHOUT THE ENGINEER'S APPROVAL
- CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR TEMPORARY BRACING/SHORING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS
- THIS DRAWING SET IS THE PROPERTY OF DESIGNLOGIX ENGINEERING AND MAY NOT BE DUPLICATED OR SHARED IN ANY FORM WITHOUT WRITTEN CONSENT FROM DESIGNLOGIX ENGINEERING
- PROVIDE STAMPED PRECAST SLATS/WALLS AND TRUSS SHOP DRAWING FOR REVIEW

GENERAL REVIEW:

- THE ENGINEER SHALL BE CONTACTED BY THE OWNER OR CONTRACTOR TO PERFORM SITE REVIEW OF CONSTRUCTION IN ACCORDANCE WITH O.B.C. 1.2.2.2 (C)
- ENGINEER TO BE CONTACTED (24 HOURS PRIOR) FOR:
 - FOOTING REVIEW: ONCE EXCAVATION IS COMPLETE AND FORMWORK FOR FOOTING IS COMPLETE
 - CONCRETE REVIEW: ONCE REBAR HAD BEEN TIED FOR CONCRETE COMPONENTS
 - FRAMING REVIEW: PRIOR TO COMMENCEMENT OF INTERIOR FINISHES AND CLADDING
 - FINAL REVIEW: UPON COMPLETION OF ALL STRUCTURAL COMPONENTS AND INTERIOR FINISHING

EXCAVATION & BACKFILL:

- FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE ASSUMPTION OF 3000 psf ALLOWABLE BEARING CAPACITY
- ALL UNDERSIDE OF FOOTINGS TO BE 48" BELOW GRADE
- IF SOFT SOILS ARE ENCOUNTERED DURING EXCAVATION NOTIFY ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ENGINEER TO BE NOTIFIED FOR (BUT NOT LIMITED TO) CONCERNS REGARDING DRAINAGE, SLOPE STABILITY AND SOIL BEARING CAPACITY
- GRANULAR FILL UNDER FOOTINGS SHALL BE FREE-DRAINING CLEAN GRANULAR "B" MATERIAL OR BETTER AND IS TO BE COMPACTED TO 100% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE
- CUT AND CAP OR REROUTE ALL FIELD TILES EXPOSED DURING EXCAVATING
- PROVIDED DEWATERING FACILITIES TO REMOVE AND MAINTAIN WATER LEVEL BELOW FOOTINGS FOR ANY WATER SOURCE ENCOUNTERED DURING CONSTRUCTION
- BACKFILL SHALL BE FREE DRAINING CLEAN GRANULAR FILL. SLOPE GRADE TO DRAIN AWAY FROM BUILDING

CONCRETE:

- SUPPLY AND PLACE CONCRETE AS FOLLOWS:
 - FOOTINGS - 25MPa (3625 psi), MAX W/C RATIO OF 0.55, AIR CONTENT 5% TO 8%
 - FOUNDATION WALLS - 25MPa (3625 psi), MAX W/C RATIO OF 0.50, AIR CONTENT 5% TO 8%
 - CONCRETE FLOORS - 30MPa (4351 psi), MAX W/C RATIO OF 0.45, NO AIR CONTENT REQUIRED U.N.O.
 - PIT WALLS & FLOORS (SUBJECT TO ACID ATTACK) - 32MPa HS (OR APPROVED EQUIVALENT) CEMENT MAX W/C RATIO OF 0.45, AIR CONTENT 5% TO 8%
- CONCRETE CODES - CONFORM TO CSA-A23.1 (LATEST EDITION)
- CONCRETE SLABS TO BE SAW CUT TO 1/4 OF SLAB DEPTH SPACED AT 30 TIMES THE SLAB DEPTH. SAW CUTS TO BE COMPLETED WITHIN 24 HOURS OF SLAB PLACEMENT
- MINIMUM CORNER REINFORCING SHALL BE 24"x24" (600mmx600mm) 'L'-BARS.
- ALL REINFORCEMENT SHALL CONFORM TO CSA G30.3, G30.5 & G30.18 (LATEST EDITION) WITH A YIELD STRENGTH OF 400MPa (58 ksi) FOR DEFORMED BARS OR 448MPa (65 ksi) FOR WELDED WIRE MESH
- MINIMUM COVER ON REINFORCING ON REINFORCING FOR FORMED CONCRETE EXPOSED TO EARTH SHALL BE 2" (50mm) ALL OTHER COMPONENTS SHALL NOT BE LESS THEN 2" (50mm)
- REINFORCING REBAR SPLICES SHALL BE 18" MIN U.N.O.
- ADEQUATE PROTECTION FROM FREEZING MUST BE PROVIDED TO POURED CONCRETE DURING COLD WEATHER PLACEMENT
- WALLS SHALL NOT BE BACKFILLED UNLESS BRACED AT THE TOP TO THE SATISFACTION OF THE ENGINEER. BACKFILL SHALL BE APPROVED MATERIAL COMPACTED TO 95% S.P.D. UNLESS OTHERWISE NOTED
- 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:

CONCRETE REBAR SIZE	SPLICE LENGTH: mm (")			
	25MPa	30MPa	32MPa	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")

STEEL NOTES:

- ALL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN CONFORMANCE TO CAN/CSA-S16 AND O.B.C. LATEST EDITIONS
- ALL STEEL MEMBERS TO BE NEW MEMBERS
- ALL ROLLED STRUCTURAL STEEL MEMBERS SHALL CONFORM TO CSA-G40.20-04/G40.21-04-M300W EXCEPT WIDE FLANGE SECTIONS WHICH SHALL CONFORM TO CSA-G40.20-04/G40.21-04-M350W.
- WELDING SHALL CONFORM TO CSA W59-03 LATEST EDITION. ELECTRODES SHALL BE E70XX OR BETTER
- BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A325
- ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE U.N.O.
- ALL CONNECTIONS SHALL BE INSPECTED AS PER CAN/CSA S16-09

WOOD NOTES:

- LUMBER SHALL BE #1 OR #2 SPF OR BETTER U.N.O.
- STUD WALLS SHALL BE ANCHORED TO FOUNDATION WITH 1/2"x8" ANCHORS AT 48" C/C SPACING AND WITHIN 6" OF END OF WALL OR CORNER.
- WIND BRACING TO BE PROVIDED AS DETAILED IN STRUCTURAL DRAWINGS
- CONTRACTOR SHALL ENSURE ANY TEMPORARY BRACING OF WALLS AND TRUSSES ARE ADEQUATE
- STUDS SHALL BE SECURED TO PLATES WITH (3/31/4" NAILS
- ALL FASTENERS INTO P.T. LUMBER TO BE STAINLESS OR HOT DIPPED GALVANIZED
- STRUCTURAL WOOD ELEMENTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH CAN/CSA 086-01 (LATEST EDITION)
- PLYWOOD SHEATHING SHALL CONFORM TO CSA STANDARD 0121-M1978 "DOUGLAS FIR PLYWOOD" AND 0151-M1978 "CANADIAN SOFT WOOD PLYWOOD"
- O.S.B. SHALL CONFORM TO CSA STANDARD CAN3-0437 1-M85 "WAFTERBOARD AND STRANDBOARD"

TRUSS NOTES:

- TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE O.B.C AND CERTIFIED BY A PROFESSIONAL ENGINEER
- UNBALANCED LOAD CONDITIONS SHALL BE ACCOUNTED FOR
- TRUSS DESIGNER TO ACCOUNT FOR INCREASED SNOW LOADS DUE TO ROOF VALLEYS AND SNOW SHADOWS
- TRUSS SHOP DRAWINGS SHALL BE PROVIDED TO ENGINEER FOR REVIEW PRIOR TO FABRICATION
- REFER TO DESIGN LOAD TABLE FOR DESIGN LOADS FOR THIS PROJECT
- DIAGONAL BRACING MUST BE PROVIDED ON ALL WEB MEMBERS THAT REQUIRE LATERAL BRACING. DIAGONAL BRACING SHALL BE LOCATED AT EACH END OF THE TRUSS ASSEMBLY AND SPACED AS NOTED ON STRUCTURAL DRAWINGS. X-BRACING SHALL BE PROVIDED AT 50'-0" INTERVALS UNLESS NOTED OTHERWISE. (SEE DIAGRAMS BELOW)

CLADDING NOTES:

- CLADDING TO BE MINIMUM 29 GAUGE WITH RIBS SPACED AT 6"-8"
- CLADDING TO BE FASTENED ON RIBS AT 6" CENTERS WITH HEX-HEAD ROOFING SCREWS

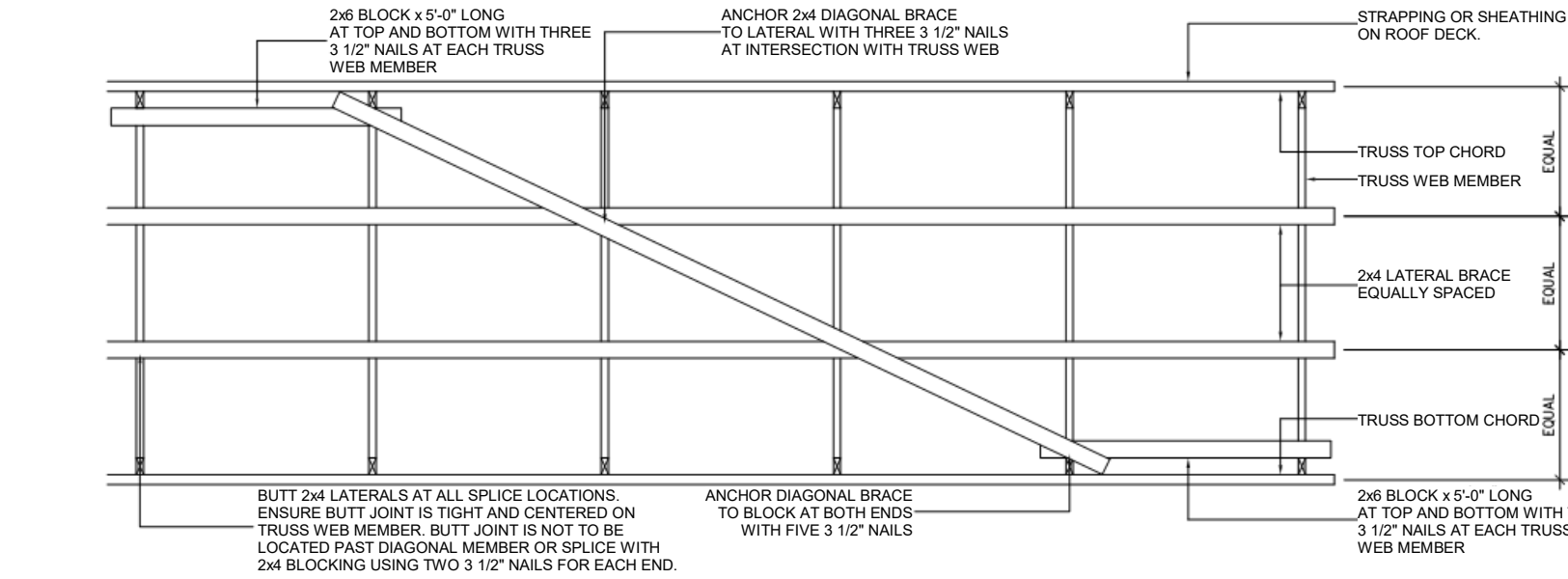
DESIGN LOADS:

SNOW DESIGN PARAMETERS (TILLSONBURG, ONT)	SL=1.3kPa (27.2 psf), S _r =0.40kPa (8.35 psf)
ROOF SNOW LOAD	ULS=1.44kPa (30.1 psf), SLS=1.30kPa (27.1 psf)
ROOF DEAD LOAD	0.86kPa (18psf)
WIND LOADS	1/50 - 0.42kPa (8.7psf)

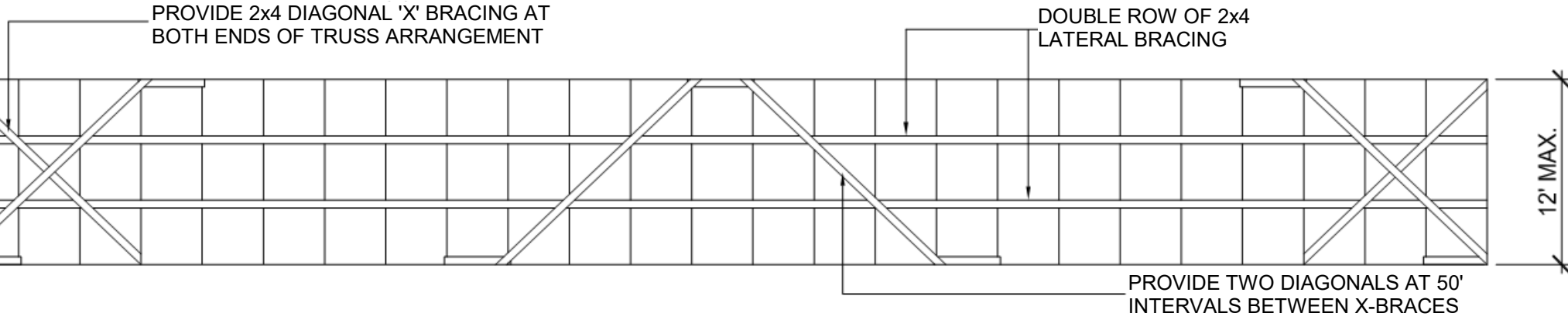
SEISMIC LOADS:

APPLIED PER O.B.C., PART 4, SECTION 4.1.8.
IMPORTANCE FACTOR, IE 1.0 (ULS)

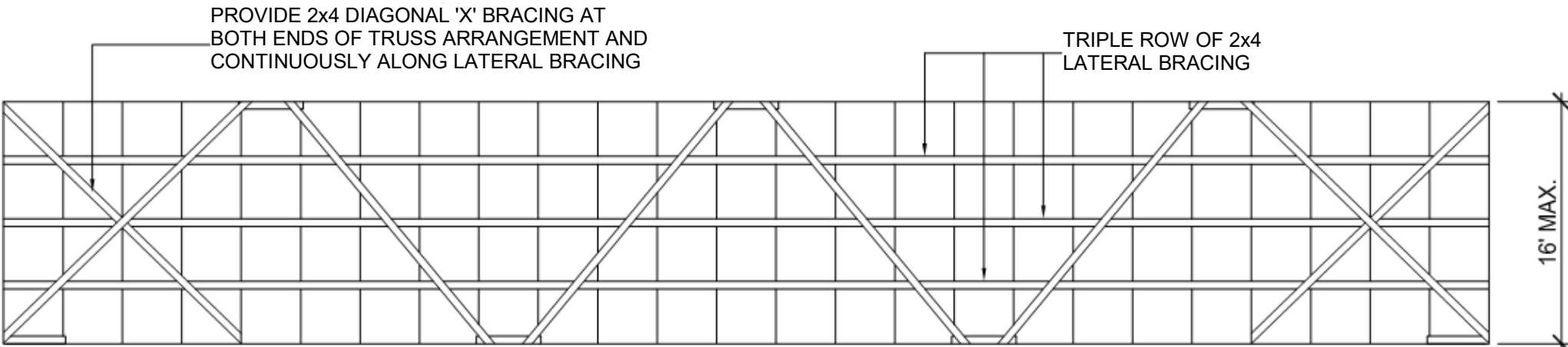
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Sa(0.5)	0.077	Sa(10.0)	0.0022
Sa(1.0)	0.044	PGA	0.076
Sa(2.0)	0.022	PGV	0.060
PGA	0.076		
SOIL CLASS C (ASSUMED)			
FA	1.0		



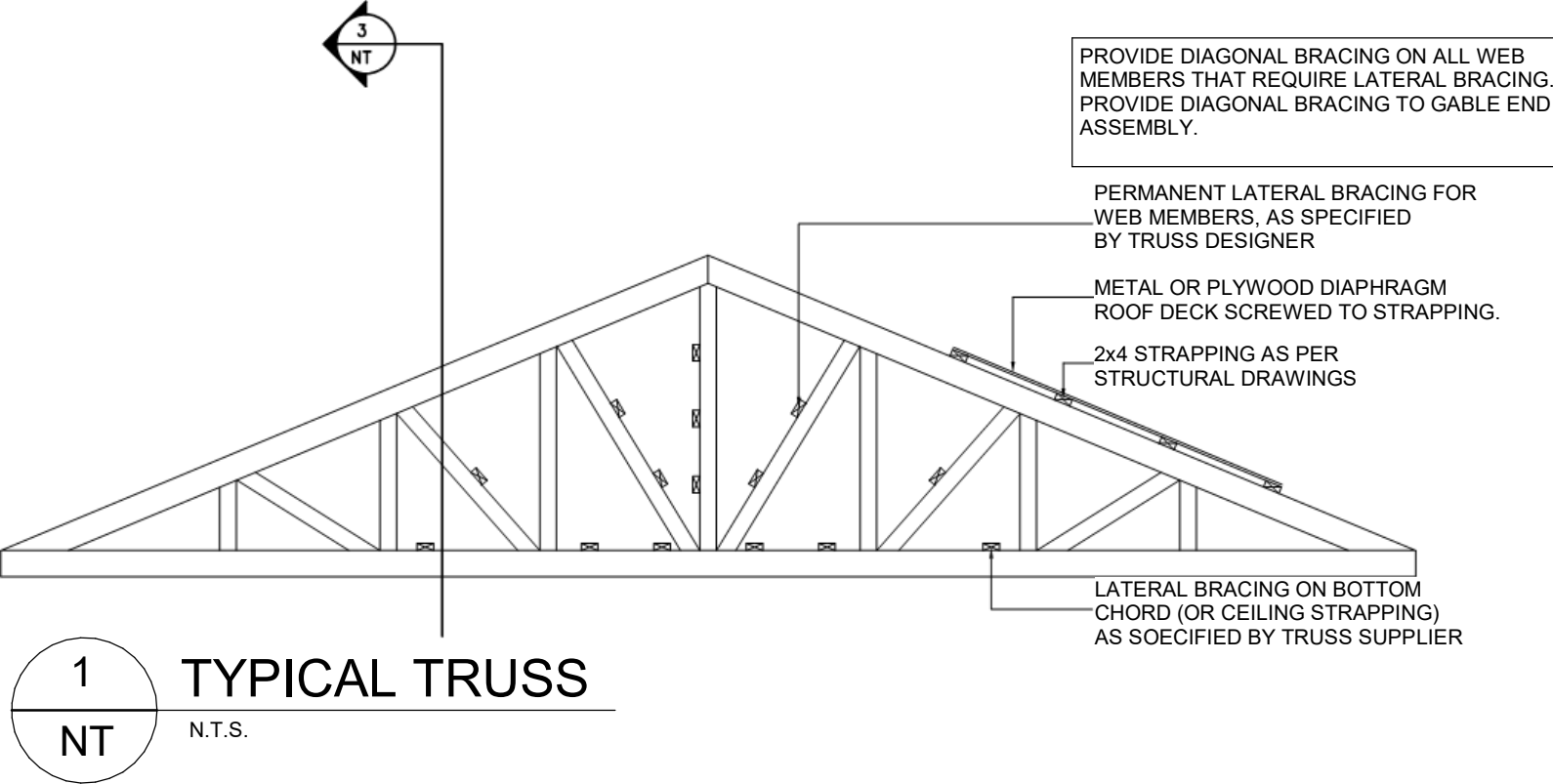
3
NT
TYPICAL TRUSS
N.T.S.



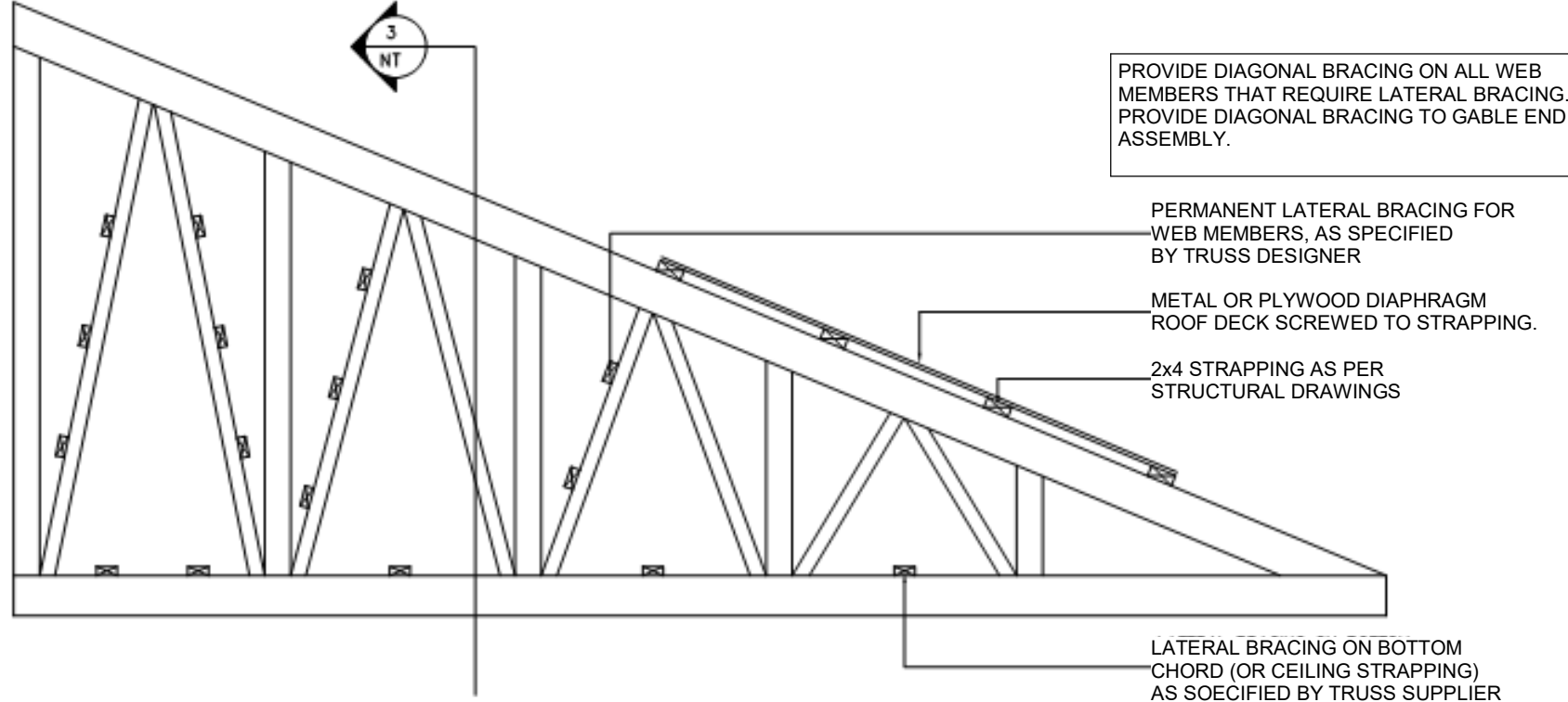
WEB MEMBER WITH TWO ROWS OF LATERAL BRACING:



WEB MEMBER WITH THREE ROWS OF LATERAL BRACING:



1
NT
TYPICAL TRUSS
N.T.S.



2
NT
TYPICAL TRUSS
N.T.S.



DESIGNLOGIX
ENGINEERING INC.

AGRICULTURE - COMMERCIAL - CIVIL

P: 905-512-2377
E: office@dlxengineering.com

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PROJECT NORTH: TRUE NORTH:

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STUBBES NEW WAREHOUSE
1418 BELL MILL SIDEROAD,
TILLSONBURG ON

DRAWING TITLE:

DESIGN NOTES

Date

2024/01/30

Scale

12" = 1'-0"

Sheet No.

NT