

#	DATE	REVISION DESCRIPTION

**HIGHWAY GARAGE**

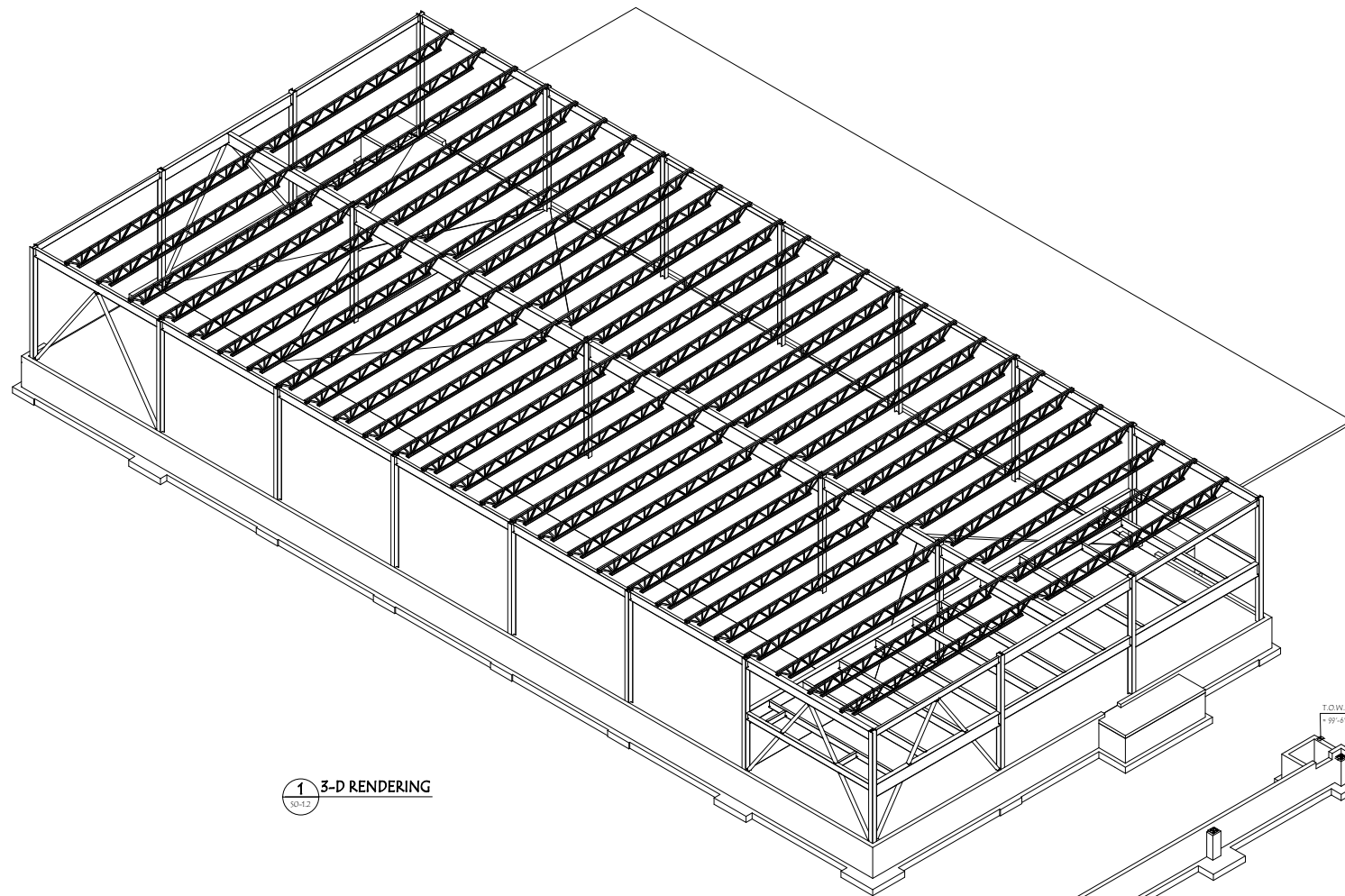
WARREN, VERMONT



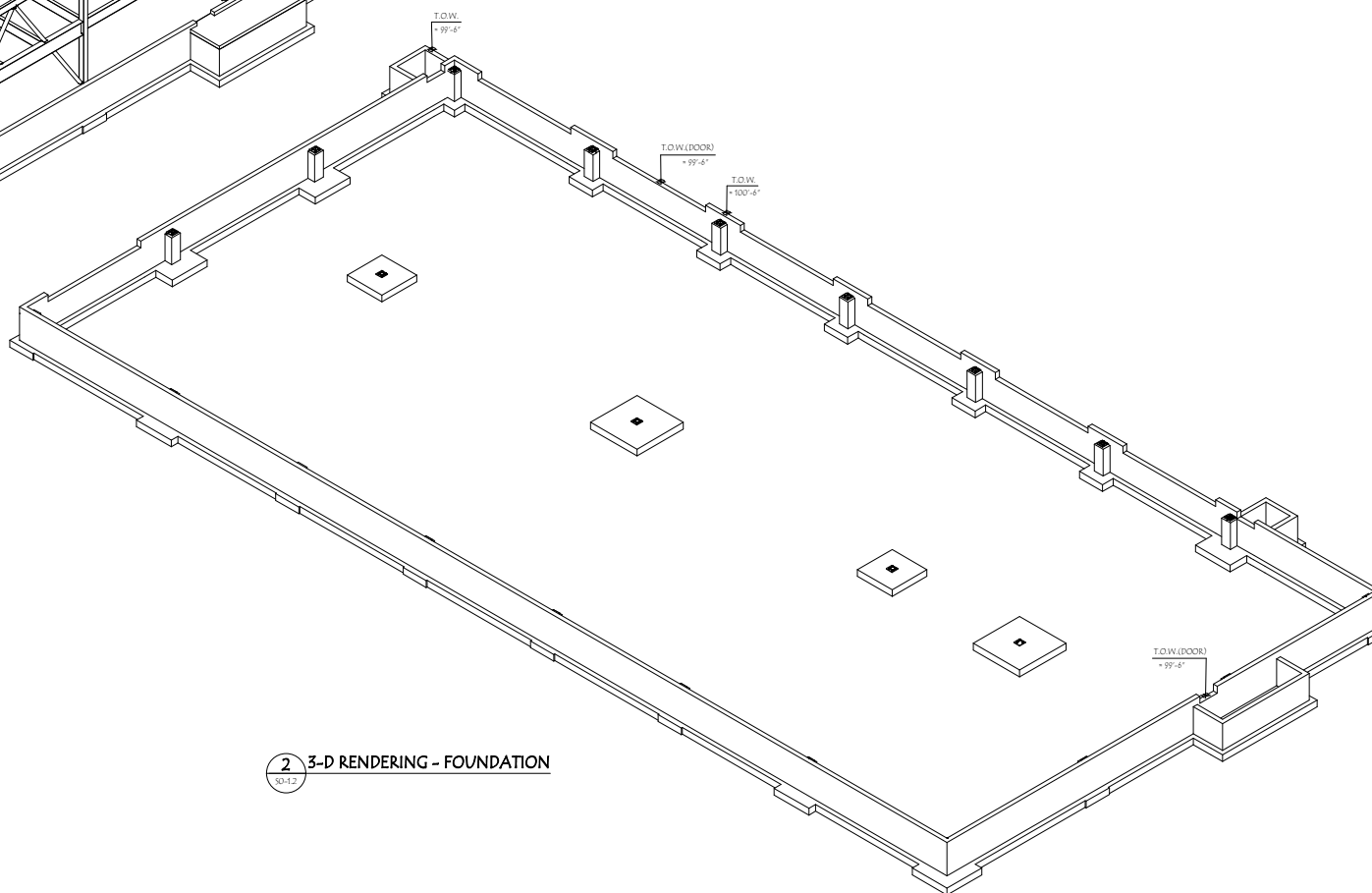
**3-D RENDERINGS**

PROJECT NO:	24-085.00
DATE:	T.B.D.
CHECKED BY:	TP
DRAWN BY:	SMD/MPA
SCALE:	

**S0-1.2**



1 3-D RENDERING  
 S0-1.2



2 3-D RENDERING - FOUNDATION  
 S0-1.2



38 Eastwood Drive  
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802.655.5020

wia-vt.com

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TOWN OF WARREN  
ATTN: REBECCA CAMPBELL  
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WIEMANN LAMPHERE ARCHITECTS  
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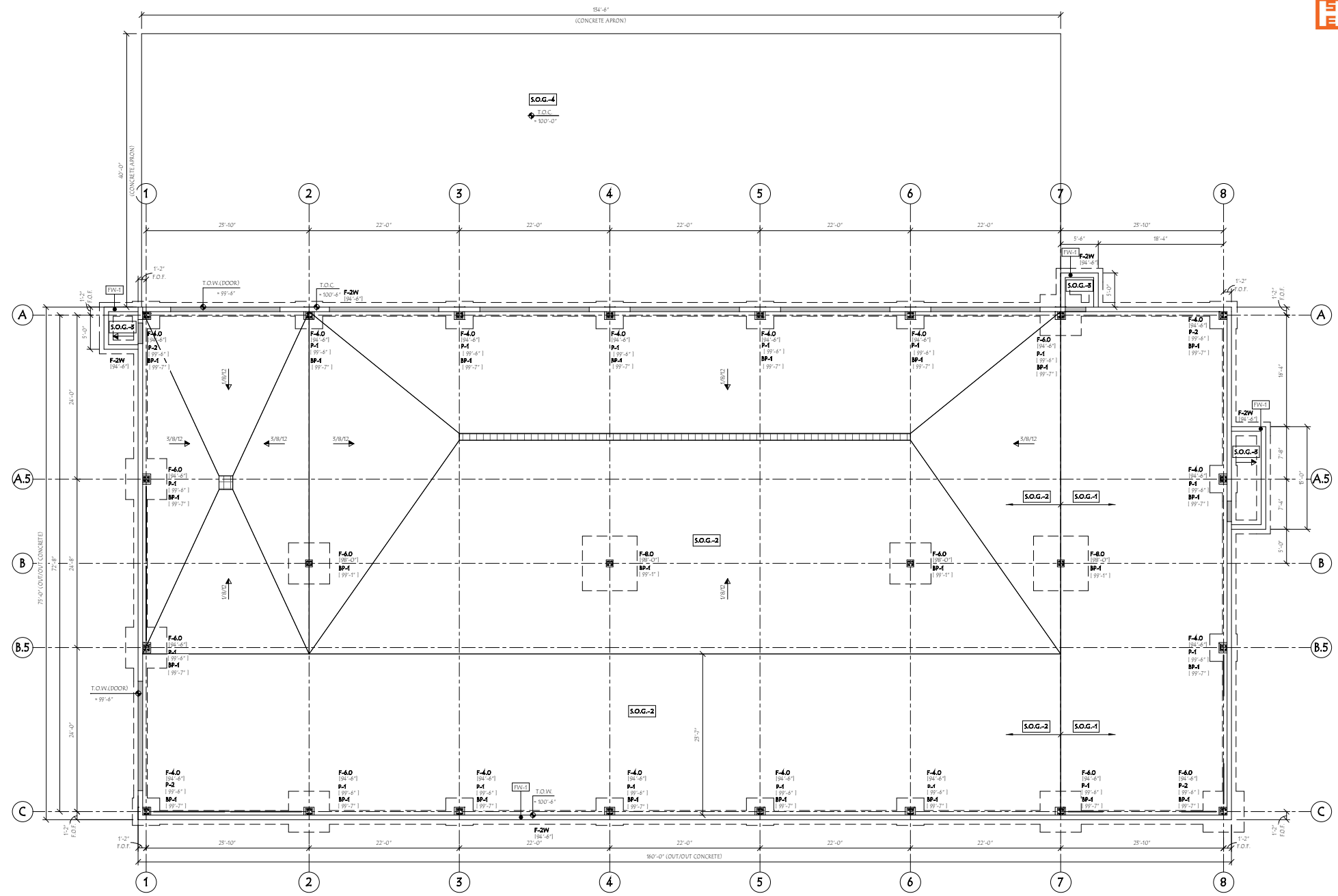
CIVIL ENGINEER AND LANDSCAPE  
VANASSE HANGEN BRUSTLIN, INC.  
ATTN: DANIEL HEIL  
40 IX DRIVE, BUILDING 100, SUITE 200  
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STRUCTURAL ENGINEER  
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811 MIDDLE STREET  
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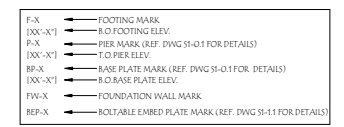
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WALL FOOTING SCHEDULE						
MARK	THICKNESS	WIDTH	REINFORCEMENT	CONCRETE STRENGTH	CONCRETE ADMIXTURES	VOLUME
F-2W	1'-0"	2'-0"	5-#5 CONT.	3000 PSI	-AIR ENTRAINMENT -WATER REDUCER	30.8 CY
Grand total						30.8 CY

ISOLATED FOOTING SCHEDULE							
MARK	THICKNESS	WIDTH	LENGTH	REINFORCEMENT	CONCRETE STRENGTH	CONCRETE ADMIXTURES	VOLUME
F-4.0	1'-0"	4'-0"	4'-0"	#5 @ 12" o/c E.W. BOTT.	3000 PSI	-AIR ENTRAINMENT -WATER REDUCER	0.5 CY
F-6.0	1'-0"	6'-0"	6'-0"	#5 @ 12" o/c E.W. BOTT.	3000 PSI	-AIR ENTRAINMENT -WATER REDUCER	1.3 CY
F-8.0	1'-0"	8'-0"	8'-0"	#5 @ 12" o/c E.W. BOTT.	3000 PSI	-AIR ENTRAINMENT -WATER REDUCER	2.4 CY
Grand total						4.2 CY	

FOUNDATION WALL SCHEDULE						
MARK	THICKNESS	REINFORCEMENT	LOCATION	CONCRETE STRENGTH	CONCRETE ADMIXTURES	VOLUME
FW-1	8"	#4 VERT. @ 24" o/c #4 HORIZ. @ 24" o/c	CNTR'D CNTR'D	3000 PSI	-AIR ENTRAINMENT -WATER REDUCER	59.9 CY
Grand total						59.9 CY



**1 STRUCTURAL FOUNDATION PLAN**  
1/8" = 1'-0"

1. DATUM ELEVATION: XXX'-XX" CORRESPONDS TO SITE ELEVATION OF XXX'-XX"
2. C.J. = SLAB ON GRADE CONTROL/CONST. JOINT. CONTRACTOR SHALL DETERMINE WHICH JOINTS WILL BE CONSTRUCTION JOINTS BASED ON THE AMOUNT OF SLAB THAT CAN BE PREPARED, PLACED, FINISHED AND CURED ACCORDING TO WEATHER CONDITIONS & AVAILABLE PERSONNEL.
3. PROVIDE PERFORATED PERIMETER DRAIN AROUND OUTSIDE OF FOUNDATION (REF. DWG S1-1 FOR DETAILS). COORD. W/LOCAL DWGS WHICH LOCATIONS WILL BE DESIGNATED AS CONSTRUCTION JOINTS BASED ON THE AMOUNT OF WALL THAT CAN BE ADEQUATELY FORMED AND PLACED.
4. REF. MICH DWGS FOR FLOOR DRAIN DETAILS.
5. REF. MICH DWGS FOR HOLDING/KEEPING PAIP @ MICH. E.G.P. REF DWG S1-1.0 FOR DETAILS.
6. ELEVATOR SHAFT SIZE, LOCATION AND DEPTH SHOWN FOR REFERENCE ONLY. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCH. DWGS AND ELEVATOR MANUF. REQS.
7. COORD. DOOR R.O. SIZES W/ARCH. DWGS.
8. PROVIDE FOUNDATION GROUNDING DETAIL. PER ICC ELECTRICAL CODE. COORDINATE DETAILS WITH ELECTRICAL CONTRACTOR PRIOR TO PLACING CONCRETE FOR FOOTINGS.
9. REF. DWG S1-2.0 FOR T.O.W. AND T.O.SHELF ELEVATIONS NOT SHOWN HERE.

**SLAB-ON-GRADE SCHEDULE**

MARK	THICKNESS	CONSTRUCTION DETAILS	CONCRETE STRENGTH	CONCRETE ADMIXTURES	VOLUME	
S.O.G.-1	4"	TYPICAL INTERIOR SLAB (SEE BELOW)	5000 PSI	-WATER REDUCER	22.1 CY	
S.O.G.-2	6"	TYPICAL GARAGE SLAB (SEE BELOW)	5000 PSI	-WATER REDUCER -AIR ENTRAINMENT	80.0 CY	
S.O.G.-3	6"	TYPICAL EXTERIOR SLAB AT STOODS (SEE BELOW)	5000 PSI	-WATER REDUCER -AIR ENTRAINMENT	2.6 CY	
S.O.G.-4	6"	TYPICAL EXTERIOR SLAB AT STOODS (SEE BELOW)	5000 PSI	-WATER REDUCER -AIR ENTRAINMENT	99.6 CY	
Grand total						204.3 CY

**S.O.G.-1**

- REINFORCED WITH #4-W2 5/8" WVF (1 1/2" CLR FROM TOP)
- 15 MIL VAPOR RETARDER UNDER SLAB
- STONE PLY 3/8" LAYER
- COMPACTED FOM GLASS INSULATION (R-10, MIN)
- NON-WOVEN GEOTEXTILE FABRIC
- COMPACTED NATIVE SOIL

**S.O.G.-2**

- STEEL TROWEL FINISH (DENSIFY PER THE ASHFORD FORMULA OR APPROVED EQLV/ALENT)
- REINFORCED WITH #4 @ 9" o/c E.W. TOP (EPOXY COATED) (1 1/2" CLR FROM TOP)
- 15 MIL VAPOR RETARDER UNDER SLAB
- COMPACTED FOM GLASS INSULATION (R-10, MIN)
- NON-WOVEN GEOTEXTILE FABRIC
- COMPACTED NATIVE SOIL

**S.O.G.-3**

- SEALER
- LIGHT BROOM FINISH
- REINFORCED WITH #4 @ 9" o/c E.W. TOP (EPOXY COATED) (1 1/2" CLR)
- CONSOLIDATED CRUSHED STONE FILL TO 8" O.F.
- SLOPE T.O.C. 1" AWAY FROM BUILDING (OR AS SHOWN)

**HIGHWAY GARAGE**

WARREN, VERMONT

**FOUNDATION PLAN**

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**S1-1.0**



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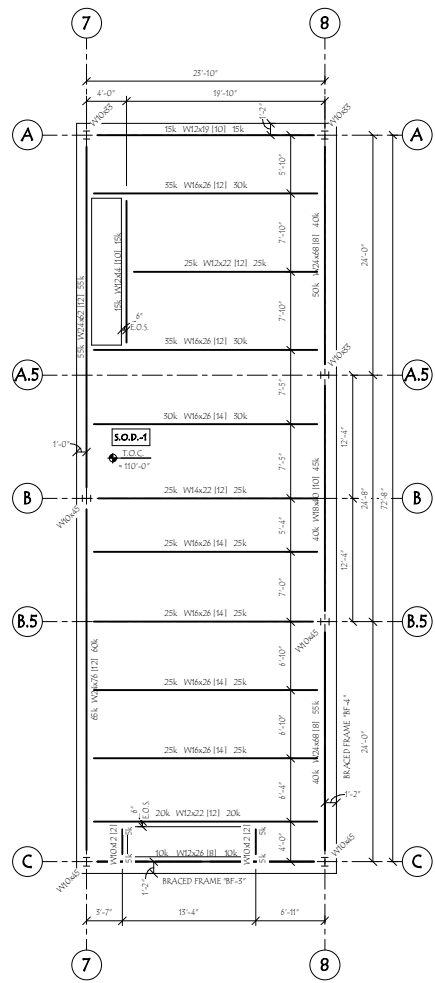
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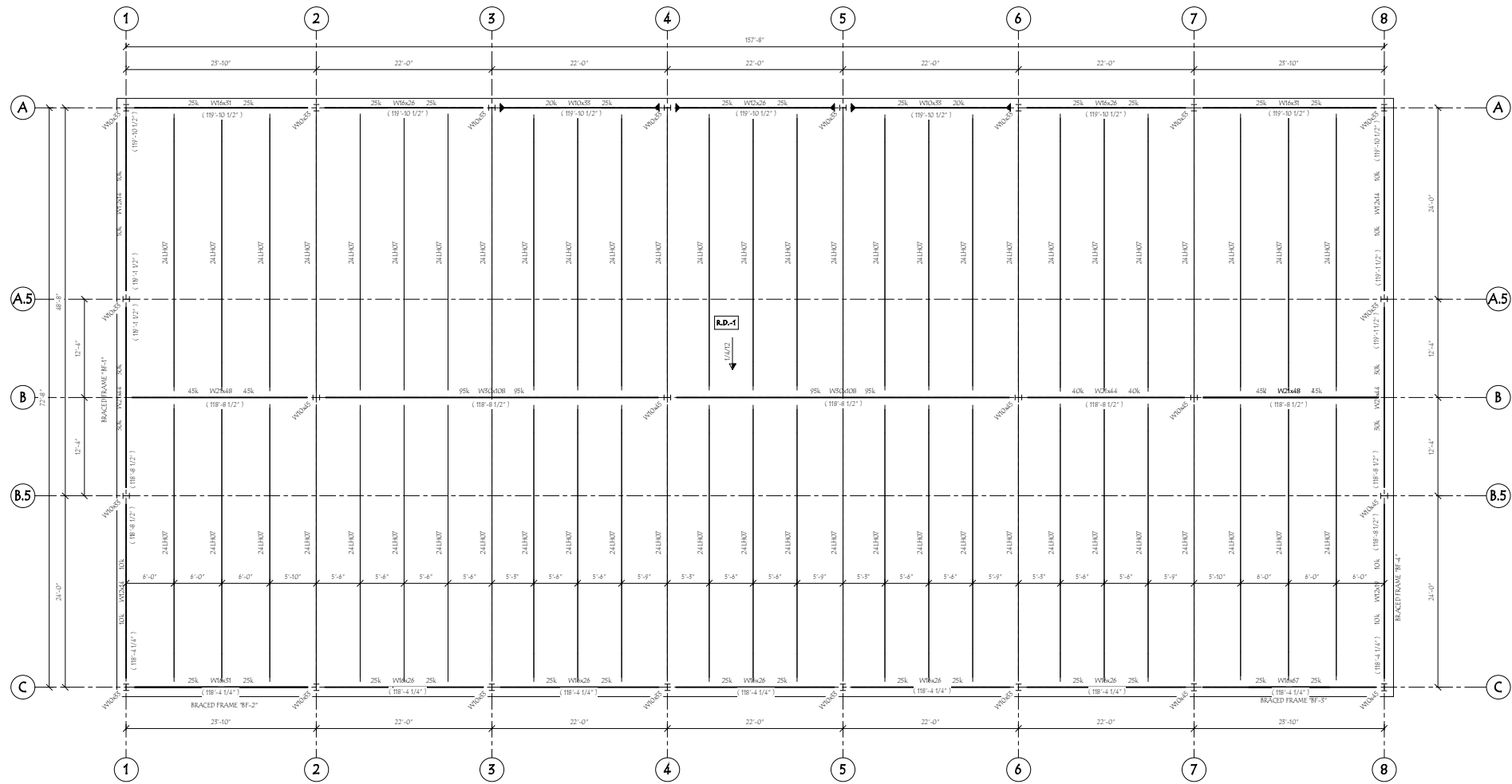
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**1 STRUCTURAL MEZZANINE FRAMING PLAN**  
18'-0" X 18'-1" 0"



**2 STRUCTURAL ROOF FRAMING PLAN**  
18'-1" 0" X 18'-0" 0"

ROOF DECK SCHEDULE				
MARK	CONSTRUCTION DETAILS	SUPPORT FASTENERS	SIDELAP FASTENERS	PATTERN
R.D.-1	1/2" X 24" TYPE 1 GALV. ROOF DECK (15820 BY WALKER/ET OR APPROVED EQUIV.)	5/8" PURLIN WELLS OR X-ENP99 PAFS (HILTI) ON 24" x 4" PATTERN	#10 SELF DRILLING SCREWS @ 24" x 4" (MAX)	SR-4
Grand total				1889.0 SF

ROOF DECK AREA	
MARK	AREA
R.D.-1	1800.6 SF
Grand total	1800.6 SF

SLAB-ON-DECK SCHEDULE							
MARK	CONSTRUCTION DETAILS	CONCRETE STRENGTH	CONCRETE ADMIXTURES	SUPPORT FASTENERS	SIDELAP FASTENERS	SHEAR STUDS	AREA
S.O.D.-1	SEE BELOW	3000 PSI	WATER REDUCER	5/8" PURLIN WELLS OR X-ENP99 PAFS (HILTI) ON 24" x 4" PATTERN	#10 SELF DRILLING SCREWS @ 24" x 4" (MAX)	5/8" x 5"	1889.0 SF
Grand total							1889.0 SF

**S.O.D.-1**  
 \* STEEL TRIZOVIL FINISH  
 \* 4" (TOTAL THICKNESS) N.W.C. SLAB WITH 1.5" G30" GA COMPOSITE DECK  
 \* REINFORCE WITH #4 @ 18" x 18" @ ELEV. 11' C&R TOP

- NOTES:**
- REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR WALL LAYOUT DIMENSIONS.
  - ALL ROOF FRAMING SHALL BE SPACED AS SHOWN ON THE PLAN (GUTS AND ROOF FRAMING SHALL BE ON THE SAME LAYOUT WHEN STUD & ROOF FRAMING SPACING ARE THE SAME U.N.O.)
  - ROOF SHEATHING SHALL BE 5/8" ADVANTECH SHEATHING BY HURB WOODS (NAILLED W/RING SHANK NAILS).
  - 1" TO BREATHING ELEVATION - **NO**.
  - ALL WALLS SHOWN ON THIS PLAN ARE LOCATED "BELOW" THIS FRAMING LEVEL (U.N.O.).
  - PROVIDE 2x4 BLOCKING AS REQ'D AT FRAMED OPENINGS FOR ROOF DRAIN (R.D.).
  - ROOF FRAMING SHALL BE FLAT. ROOF PITCH ACCOMPLISHED BY MEANS OF TAPERED INSULATION. REFER TO ARCHITECTURAL DRAWINGS FOR SLOPE POINTS.
  - LOCATE ROOF TOP UNITS PER ARCHITECTURAL DRAWINGS. REFER TO UNIT CUT SHEETS FOR ROOF CURB DETAILS & WEIGHTS.
  - FRAME OPENING FOR ROOF HATCH WITH 2-2x40 BEAMS (AS REQ'D) WITH HUBER-2 HANGERS (SIMPSON). ADJUST ROOF FRAMING SPACING AS REQ'D FOR HATCH.

STRUCTURAL COLUMN TAKEOFF		
TYPE	COUNT	STEEL TONNAGE
W10x35	17	5.4
W10x45	7	5.0
Grand total	24	8.4

STRUCTURAL O.W.S.J. TAKEOFF		
MARK	COUNT	SIZE
2411K07	54	2411K07
Grand total	54	

STRUCTURAL FRAMING TAKEOFF		
TYPE	COUNT	STEEL TONNAGE
HSS30X30	12	1.9
W10x42	2	0.0
W10x55	2	0.7
W12x14	4	0.6
W12x19	2	0.5
W12x22	2	0.5
W12x26	2	0.8
W16x27	1	0.5
W16x28	14	4.2
W16x31	5	1.1
W16x47	1	0.8
W18x40	1	0.5
W25x44	5	1.6
W25x48	5	1.7
W24x62	1	1.1
W24x68	2	1.6
W25x76	1	1.4
W30x96	2	4.8
Grand total	58	25.8

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**HIGHWAY GARAGE**

WARREN, VERMONT

**MEZZANINE & ROOF FRAMING PLAN**

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**S1-2.0**