

BUILDING SPECIFICATIONS AND GENERAL NOTES

<b>OWNERS INFORMATION:</b>	<b>BUILDING DESIGN INFORMATION:</b>	<b>BUILDING AREA:</b>
- NAME: ARLINGTON TOWNSHIP	- DESIGN CODE: 2015 MI BLDG CODE	- AREA OF WORK: 2400 SQFT
- ADDRESS: 36166 56th STREET	- USE OF BUILDING: FIRE STATION	- EXISTING BUILDING AREA: 0 SQFT
- CITY: BANGOR	- OCCUPANCY CLASSIFICATION: B/S-1	- TOTAL BUILDING AREA: 2400 SQFT
- STATE: MI	- CONSTRUCTION TYPE: SB	
- ZIP: 49013	- RISK CATEGORY: 4	<b>ALLOWABLE AREA:</b>
	- FIRE SUPPRESSION SYSTEM: NO	- TABLE AREA: 9000 SQFT
		- PERIMETER INCREASE: 0 SQFT
		- SPRINKLER INCREASE: 0 SQFT
		- TOTAL ALLOWABLE AREA: 9000 SQFT

SNOW	WIND	SEISMIC	TRUSS DEAD LOADS
(Pg) = 50.0 PSF (Ce) = 0.90 (Is) = 1.20 (Cl) = 1.10 (Pi) = 41.58 PSF (Cs) = 0.86 (Pa) = 35.73 PSF (Lr) = 20.00 PSF	B.W.S. = 120 MPH EXPOSURE = C	- SEISMIC IMPORTANCE FACTOR: 1.50 - SPECTRA RESPONSE COEFFICIENT SDS: 0.091 - SPECTRA RESPONSE COEFFICIENT SD1: 0.080 - SITE CLASSIFICATION: D - SEISMIC DESIGN CATEGORY: C	DLTC = 7 PSF DLBC = 7 PSF

\*WITH UNBALANCED LOADS AS REQUIRED

<b>MAJOR STRUCTURAL COMPONENTS:</b>	<p><b>COLUMNS:</b> - ALL LAMINATED COLUMNS SHALL BE MIDWEST MANUFACTURING'S, RIVET CLINCHED, WITH STEEL REINFORCED JOINTS UNLESS SPECIFIED OTHERWISE.</p> <p><b>TRUSSES:</b> - DESIGNED IN ACCORDANCE TO 2015 MI BLDG CODE TPI APPROVED THIRD PARTY INSPECTED - MIDWEST MANUFACTURING TRUSS QUOTE NUMBER: QTREC0608902 - LATERAL BRACING IS REQUIRED. SEE TRUSS SPECIFICATION SHEET(S) FOR LATERAL BRACE LOCATIONS.</p> <p><b>STEEL PANEL:</b> - MIDWEST MANUFACTURING PREMIUM PRO-RIB STEEL PANEL .0157" MINIMUM THICKNESS BEFORE PAINTING .018" NOMINAL THICKNESS AFTER PAINTING G100 GALVANIZED COATING PLUS ZINC PHOSPHATE LIFETIME PAINT WARRANTY STRUCTURAL STRENGTH ASTM-A653 GRADE 80 (FULL HARD STEEL) 82000 PSI MINIMUM TENSILE STRENGTH</p>
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**PLEASE NOTE:**

- DESIGNER LIABILITY LIMITED TO THE PREPARATION OF THE DRAWINGS WITH THE PARAMETER CONTRACTED AND ASCERTAINING TO CODE COMPLIANCE.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE RECEIVED FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, & DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK.
- NO CHANGES, MODIFICATIONS, OR DEVIATIONS SHALL BE MADE FROM THESE DRAWINGS OR SPECIFICATIONS WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE ENGINEER.
- WHERE LACK OF INFORMATION, OR ANY DISCREPANCY SHOULD APPEAR IN THE DRAWINGS OR SPECIFICATIONS, REQUEST WRITTEN INTERPRETATION FROM THE ENGINEER BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- IMPORTANT!! THIS BUILDING IS DESIGNED USING THE ROOF AS A DIAPHRAGM (DEEP THIN BEAM) TO TRANSFER SIDEWALL AND ROOF WIND LOADS TO THE ENDWALL SHEAR WALLS. STEEL PANELS ARE AN INTEGRAL PART OF THE BUILDING STRUCTURE AND ANY FUTURE FIELD MODIFICATIONS MADE MAY BE DETRIMENTAL TO THE BUILDING'S STRUCTURAL PERFORMANCE.

**SOIL:**

- SOIL BASED ON ASABE EP486.2 (TABLE 1)
- PRESUMPTIVE SOIL TYPE: SILTY OR CLAYEY FINE TO COARSE SAND (CLASS OF MATERIAL: SW, SP, SM, AND SC).
- SOIL CONSISTENCY: MEDIUM TO DENSE
- A SOIL BEARING VALUE ASSUMED AT A MINIMUM 2000 PSF.
- ALL FOOTINGS AND SLAB TO BEAR ON UNDISTURBED INORGANIC SOIL OR SOIL COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- ALL SOILS BELOW CONCRETE SHALL BE A NON-FROST SUSCEPTIBLE SOIL AS REQUIRED IN ASCE 32.
- OWNER RESPONSIBLE FOR VERIFYING SITE SOIL CONDITIONS. ALL SOILS TO MEET OR EXCEED REQUIREMENTS AS REFERENCED IN THE GENERAL NOTES. CONSULT GEOTECHNICAL ENGINEER IF NECESSARY.
- FOOTINGS TO BE ABOVE THE WATER TABLE

**CONCRETE:**

- CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- ALL REBAR SHALL MEET A615 GRADE 40 OR BETTER.

**LUMBER:**

- ALL WOOD CONSTRUCTION SHALL BE OF MATERIALS SHOWN AND WORKMANSHIP SHALL BE IN ACCORDANCE TO THE NATIONAL FOREST PRODUCTS ASSOCIATION SPECIFICATIONS FOR WOOD CONSTRUCTION.
- ALL LUMBER IN CONTACT WITH CONCRETE OR SOIL ABOVE GRADE SHALL BE TREATED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE AWPA U1 UC3B REQUIREMENTS OR BETTER.
- ALL LUMBER BELOW GRADE SHALL BE TREATED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE AWPA U1 UC4B REQUIREMENTS OR BETTER.

**STEEL TRIMS:**

- COLOR MATCHED STEEL TRIMS  
CERAM-A-STAR 1050 PAINT SYSTEM

**FRAMING FASTENERS:**

- GALVANIZED THREADED HARDENED STEEL RINGSHANK NAILS, UNLESS NOTED OTHERWISE.

**PANEL FASTENERS:**

- COLOR MATCHED GALVANIZED WOODGRIP SCREWS, #10 DIAMETER, 1/4" HEX HEAD.

**HANDLING AND STORING:**

- ALL STEEL PANELS AND TRUSS PRODUCTS SHOULD BE HANDLED AND STORED PER MANUFACTURER SPECIFICATIONS.

**GRADE:**

- ALL FINISHED GRADES TO SLOPE AWAY FROM BUILDING AT A MIN. 5% GRADE FOR PROPER DRAINAGE (2% FOR IMPERVIOUS) (IBC 1804)

**CONSTRUCTION BRACING:**

- TEMPORARY BRACING DURING CONSTRUCTION SHALL BE CONTRACTORS' RESPONSIBILITY. REFER TO BCSJ-B1 AND/OR B10 SUMMARY SHEET "GUIDE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF TRUSSES", BY THE TRUSS PLATE INSTITUTE (TPI) AND THE WOOD TRUSS COUNCIL OF AMERICA (WTCA).

**HVAC:**

- HEATING, VENTING, AND AIR CONDITIONING REQUIREMENTS WERE NOT ADDRESSED ON THE DRAWING AND SHOULD BE APPROVED BY LOCAL OFFICIALS.

**PLUMBING:**

- PLUMBING REQUIREMENTS WERE NOT ADDRESSED ON THE DRAWING AND SHOULD BE INSTALLED IN ACCORDANCE WITH REQUIRED BUILDING CODES.

**ELECTRICAL:**

- ELECTRICAL REQUIREMENTS WERE NOT ADDRESSED ON THE DRAWING AND SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY LOCAL CODES.

**EXIT LIGHTS:**

- EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH THE ICC ELECTRICAL CODE.

**ACCESSIBLE PARKING:**

- SHALL COMPLY WITH ICC/ANSI A117.1 CHAPTER 5.

**ACCESSIBLE ROUTE:**

- SHALL COMPLY WITH ICC/ANSI A117.1 CHAPTER 4.

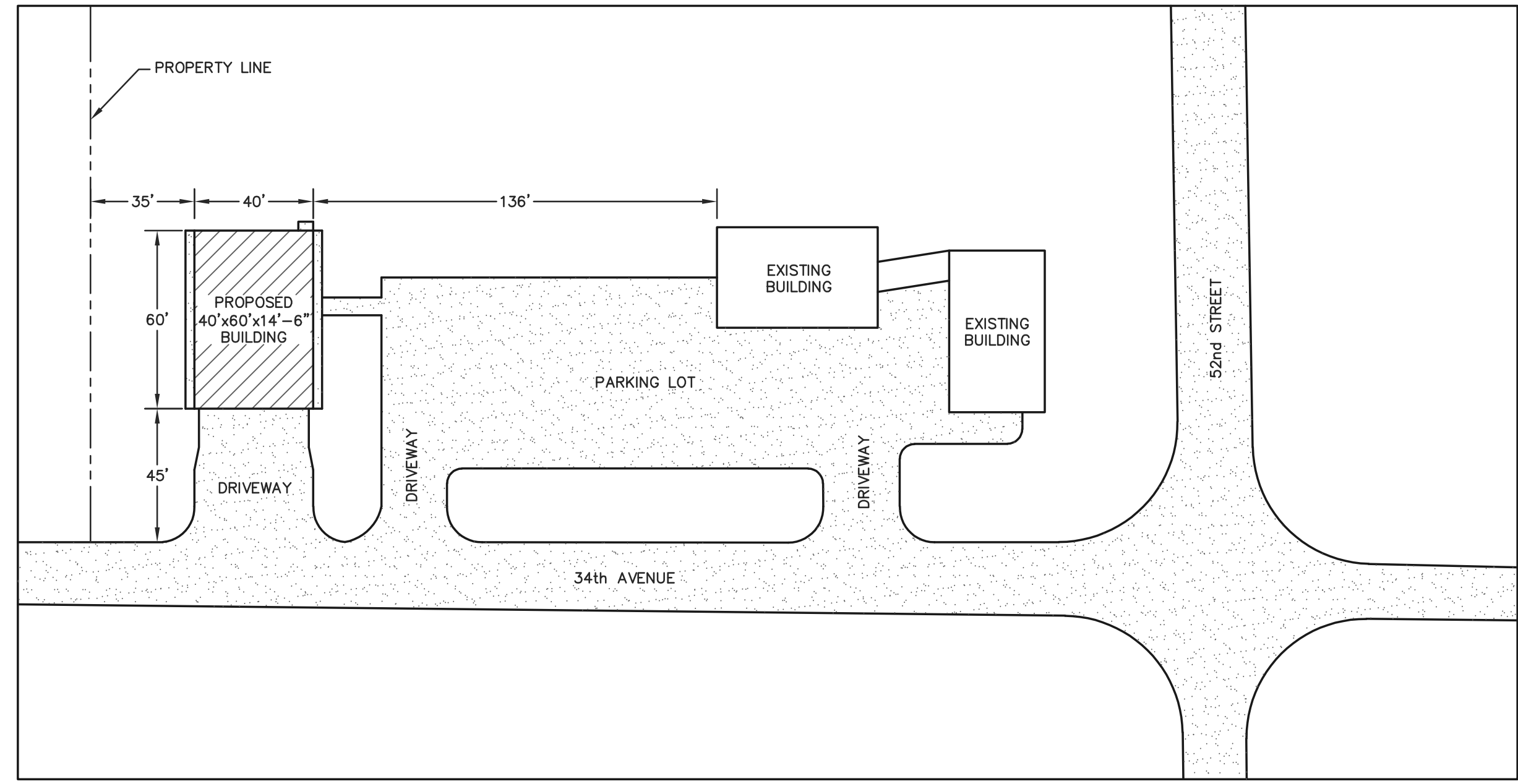
**ACCESSIBLE DOOR:**

- SHALL COMPLY WITH ICC/ANSI A117.1 CHAPTER 3 SECTION 309. HANDLES, PULLS, LATCHES, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPENED, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" (1220 MM) ABOVE FINISHED FLOOR THE THRESHOLD OF SERVICE DOORS MAY NOT EXCEED 1/2" ON EITHER SIDE OF THE DOOR WITH 1:2 SLOPE IF GREATER THAN 1/4".

**FIRE EXTINGUISHERS:**

- SHALL BE INSTALLED, PROVIDED, AND MAINTAINED AS SPECIFIED IN NFPA NO. 10 (BY OTHERS).

# ARLINGTON FIRE STATION BANGOR, MI




**SITE PLAN**  
SCALE: 1"=40'

SHEET INDEX	
SHEET #	SHEET DESCRIPTION
S1	GENERAL NOTES AND SITE PLAN
S2	ELEVATIONS
S3	FLOOR PLAN AND COLUMN & FOOTING SCHEDULE
S4	ROOF FRAMING PLAN AND STUB COLUMN SCHEDULE
S5	SIDEWALL SECTION AND SECTION DETAILS
S6	ENDWALL SECTION AND SECTION DETAILS
S7	OVERHEAD DOOR DETAILS
S8	STEEL APPLICATION DETAILS
S9	RESTROOM DETAILS

<b>BUILDING INFORMATION:</b>	
NAME:	ARLINGTON FIRE STATION
ADDRESS:	34TH AVENUE
CITY:	BANGOR
STATE:	MI
ZIP:	49013
COUNTY:	ARLINGTON

**NOTE:** OWNER/CONTRACTOR SHALL VERIFY ALL SETBACKS WITH LOCAL BUILDING OFFICIAL AT TIME OF CONSTRUCTION.



**ENGINEERING SERVICES**  
5311 KANE RD. BAU CLAIRE, MI 48709 (715) 878-5555

FOR QUESTIONS PLEASE CONTACT BUILDING DESIGNER AT THE FOLLOWING:  
ENGINEERING@MIDWESTMANUFACTURING.COM

PROJECT TITLE:  
**ARLINGTON  
FIRE STATION  
BANGOR, MI**

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PROF. ENGINEER: NATE PELESCHAK  
PLAN DESIGNER: MATT BUSHEE  
DRAWN BY: JJZ  
DATE: 10/30/2019  
SCALE: AS NOTED

**REVISIONS**

NO	DATE	DESCRIPTION	BY
1			
2			

SHEET TITLE:  
**GENERAL NOTES &  
SITE PLAN**

FILE NAME: B30619MI  
SHEET NO.  
**S1**