



8100 Jackman Road  
Post Office Box H  
Temperance, Michigan 48182-0607  
(734) 847-6791  
FAX: (734) 847-7809

Paul Pirrone  
*Supervisor*  
Trudy L. Hershberger  
*Clerk*  
Paul R. Francis  
*Treasurer*  
Michelle Bork  
TC Clements  
Rick Steiner  
Nancy Tienvieri  
*Trustees*

Bedford Township  
Notice of Bid

To repair fire hall located at 1106 W. Temperance Road. Structural damaged has occurred to the ceiling from faulty beams. Please review construction sequence as noted on the print for specs. This bid will require labor, materials and permits. In addition you will need to submit proof of liability insurance, workmen's compensation insurance and provide a copy of your Michigan Builders License with your bid.

If you need to visit the project please contact Paul Pirrone at 734-224-7322.

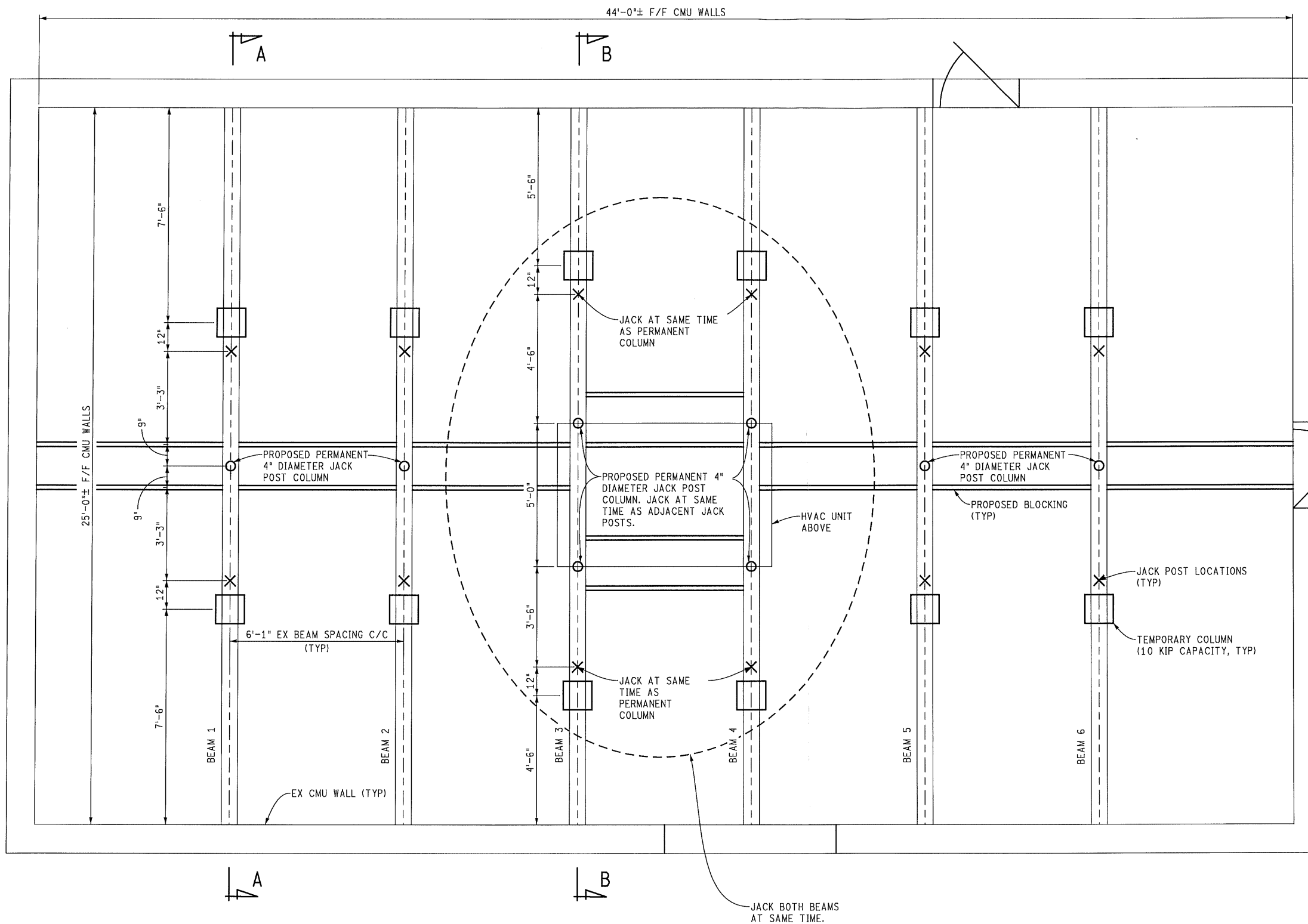
Please submit bids to Bedford Township Clerk Department.

Attention: Trudy Hershberger

8100 Jackman Road, P.O. Box H

Temperance Mi. 48182

No later than May 10, 2017 by 4:30 P.M.



**SUGGESTED CONSTRUCTION SEQUENCE:**

THE FOLLOWING SEQUENCE STAGES ARE RECOMMENDED TO OCCUR AFTER INTERIOR ARCHITECTURAL DETAILS ARE REMOVED FROM THE UNDERSIDE OF THE EXISTING ROOF:

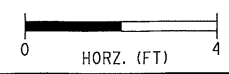
- 1) INSTALL PROPOSED BLOCKING AND HOLD POSITION WITH NAILS OR CLAMPS BETWEEN ALL BEAMS. EACH BEAM SHALL BE WORKED ON ONE AT A TIME UNLESS OTHERWISE DIRECTED IN THESE PLANS.
- 2) RUN STRING LINE ON BEAM BETWEEN END SUPPORTS FOR ONE BEAM OR AS DIRECTED ON THE PLAN.
- 3) PLACE ADHESIVE ON STEEL PLATE AND SET STEEL PLATE AGAINST BOTTOM OF BEAM. TEMPORARILY HOLD POSITION TO BOTTOM OF EXISTING BEAM WITH CLAMPS ONLY.
- 4) PLACE JACK POSTS 12" INSIDE TEMPORARY COLUMN LOCATION AND PLACE PERMANENT COLUMN ASSEMBLY IN LOCATION PER PLAN. PROPOSED PERMANENT COLUMN SHALL BE SET DIRECTLY ON CONCRETE SLAB.
- 5) INJECT LIQUID NAILS HEAVY DUTY OR LIQUID NAILS EXTREME HEAVY DUTY ADHESIVE INTO ALL GAPS BETWEEN TIMBER LAMINATIONS, AND INTO CRACKS IN BEAM. USE STEEL TROWEL TO FORCE ADHESIVE INTO GAPS AND CRACKS.
- 6) JACK PERMANENT COLUMNS AND JACK POSTS EVENLY UNTIL JOIST IS ALIGNED WITH STRING LINE, OR AS DIRECTED BY THE ENGINEER. THE PERMANENT JACKS ARE INTENDED TO PERFORM THE MAJORITY OF THE LIFTING. THE JACK POSTS AND TEMPORARY COLUMNS ARE INTENDED TO COMPRESS THE LAMINATES TOGETHER. PRECAUTIONS SHOULD BE TAKEN TO PREVENT LIFTING THE BEAMS OFF THE CMU BEAM SEATS. DAMAGED TO THE MASONRY WALLS DUE TO THE JACKING PROCESS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 7) INSTALL TEMPORARY COLUMNS AND 4" DIAMETER PERMANENT STEEL COLUMN(S) PER PLAN AND SNUG TIGHT AGAINST BOTTOM STEEL PLATES.
- 8) DRILL AND SET LAG SCREWS:
  - A) DRILLING AND SETTING OF THE LAG SCREWS SHALL BE UNDER THE SUPERVISION OF A LICENSED CARPENTER.
  - B) THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK (0.5 INCHES), AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK (6 INCHES).
  - C) THE LEAD HOLE FOR THE THREADED PORTION OF THE LAG SCREW SHALL HAVE A DIAMETER OF 11/32" AND SHALL BE THE LENGTH OF THE THREADED PORTION OF THE LAG SCREW (6 INCHES).
  - D) COAT THREADED PORTION OF THE LAG SCREW WITH ADHESIVE USED IN STEP 4.
  - E) THE THREADED PORTION OF THE LAG SCREW SHALL BE INSERTED INTO ITS LEAD HOLE BY TURNING WITH A WRENCH. DRIVING LAG SCREWS BY THE USE OF A HAMMER IS PROHIBITED.
- 9) AFTER ADHESIVE HAS ATTAINED DRY TIME PER MANUFACTURER RECOMMENDATIONS:
  - A) ATTACHED PROPOSED COLUMN TO BEAM PER MANUFACTURER RECOMMENDATIONS.
  - B) PERMANENTLY ATTACHED PROPOSED BLOCKING.
  - C) REMOVED TEMPORARY SUPPORTS.
- 10) REPEAT STEPS 1-9 ON ALL BEAMS.

PLAN

| PLAN REVISIONS (SUBMITTAL DATE: ) |          |      |             |     |      |      |             |
|-----------------------------------|----------|------|-------------|-----|------|------|-------------|
| NO.                               | DATE     | AUTH | DESCRIPTION | NO. | DATE | AUTH | DESCRIPTION |
| 1                                 | 04/06/17 | MSG  | BID SET     |     |      |      |             |



**BEDFORD TOWNSHIP**  
8100 JACKMAN ROAD  
PO BOX H  
TEMPERANCE, MICHIGAN 48182

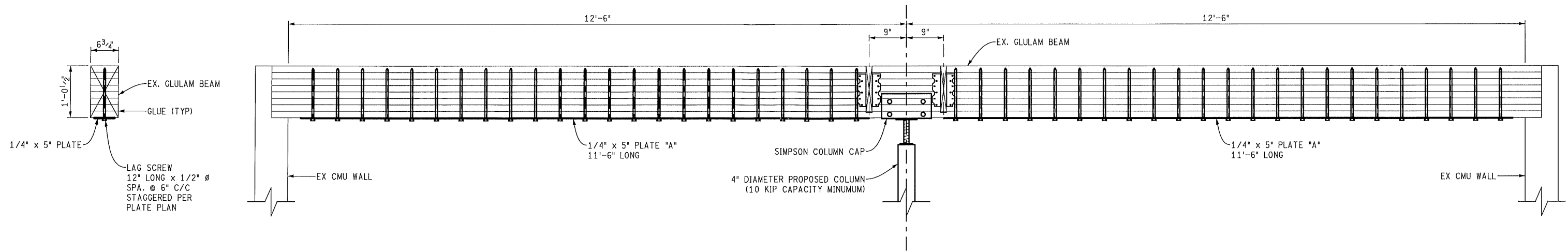


DRAWN BY: DAB  
CHK'D BY: MTM  
FILE: BEDT0011\_FirestationRoof01.DGN

DATE: 03/28/2017  
DESIGN UNIT: M. MIKOLAJCZYK  
TSC:

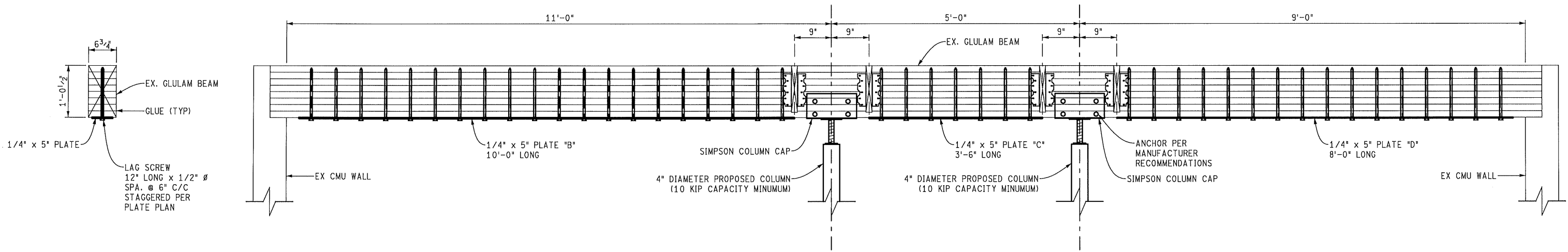
CS:  
JN:

BEDFORD TWP. FIRESTATION - TEMPERANCE UNIT  
1106 W. TEMPERANCE ROAD  
ROOF JOIST REPAIR PLAN  
DRAWING SHEET 1



SECTION

ELEVATION A-A (BEAMS 1, 2, 5 & 6)



SECTION

ELEVATION B-B (BEAMS 3 & 4)

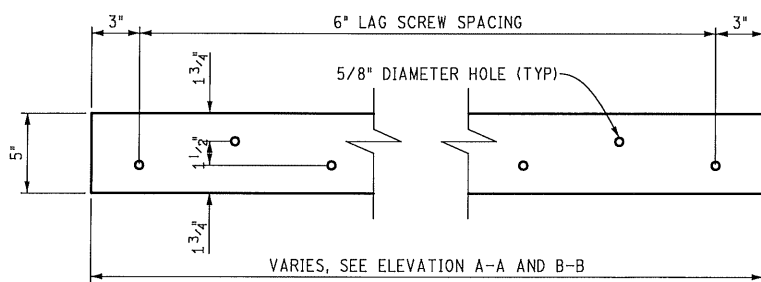
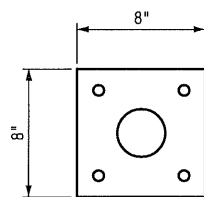


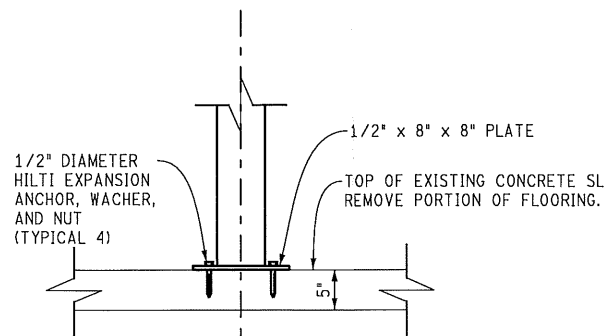
PLATE PLAN

SCALE 1" = 1'  
PLATE "C" SHOWN, PLATES "A", "B" & "D" SIMILAR



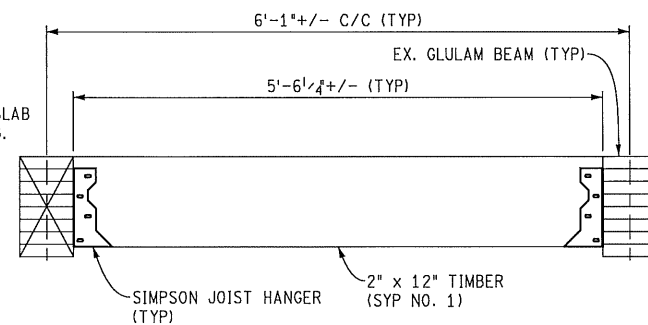
BASEPLATE PLAN

SCALE 1" = 1'



COLUMN BASE

SCALE 1" = 1'



BLOCKING DETAIL

SCALE 1" = 1'

MISCELLANEOUS QUANTITIES

|      |    |                                  |
|------|----|----------------------------------|
| 8    | EA | 4" DIAMETER COLUMN ASSEMBLY      |
| 16   | EA | BLOCKING DETAIL                  |
| 8    | EA | 1/4" x 5" PLATE "A", 11'-6" LONG |
| 2    | EA | 1/4" x 5" PLATE "B", 10'-0" LONG |
| 2    | EA | 1/4" x 5" PLATE "C", 3'-6" LONG  |
| 2    | EA | 1/4" x 5" PLATE "D", 8'-0" LONG  |
| 286  | EA | LAG SCREW, 1/2" Ø X 12" LONG     |
| LSUM |    | ADHESIVE                         |
| LSUM |    | TEMPORARY JACKING AND SHORING    |
| LSUM |    | MISCELLANEOUS REMOVALS           |

NOTES:

THE WORK COVERED BY THESE PLANS INCLUDES THE INSTALLATION OF PROPOSED COLUMNS & GLULAM BEAM REPAIR AND STRENGTHENING.

THE FOLLOWING MATERIALS WERE ASSUMED FOR DESIGN:  
STRUCTURAL STEEL: ASTM A36  
LAG SCREW: ASTM A307, GRADE A

4" DIAMETER COLUMN ASSEMBLY INCLUDES THE COLUMN, CAP, BASE PLATE AND ANCHORAGE FURNISHED, FABRICATED AND INSTALLED AS SHOWN ON THE PLANS.

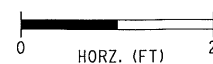
BLOCKING DETAIL INCLUDES THE TIMBER, JOIST HANGERS, AND NAILS FURNISHED AND INSTALLED AS SHOWN ON THE PLANS.

PLAN REVISIONS (SUBMITTAL DATE: )

| NO. | DATE     | AUTH | DESCRIPTION | NO. | DATE     | AUTH | DESCRIPTION |
|-----|----------|------|-------------|-----|----------|------|-------------|
| 1   | 04/06/17 | MSG  | BID SET     | 3   | 04/10/17 | MSG  | FINAL PLANS |



BEDFORD TOWNSHIP  
8100 JACKMAN ROAD  
PO BOX H  
TEMPERANCE, MICHIGAN 48182



DRAWN BY: DAB  
CHK'D BY: MTM  
FILE: BEDT0011\_FireStationRooF02.DGN

DATE: 03/30/2017  
DESIGN UNIT: M. MIKOLAJCZYK  
TSC:

CS:  
JN:

BEDFORD TWP. FIRESTATION - TEMPERANCE UNIT  
1106 W. TEMPERANCE ROAD  
ROOF JOIST REPAIR DETAILS

DRAWING SHEET  
2