181174

Certificate of Appropriateness

Milwaukee Historic Preservation Commission/200 E. Wells Street/Milwaukee, WI 53202/phone 414-286-5712/fax 414-286-3004

Property 1046 N. 9TH ST.

Description of work Construct new roof structure and cover building per attached drawings (see conditions below). Install long-term temporary roof on south steeple pending its eventual reconstruction.

See attached drawings

Date issued 1/7/2019 PTS ID 114657 COA: new roof structure

In accordance with the provisions of Section 320-21 (11) and (12) of the Milwaukee Code of Ordinances, the Milwaukee Historic Preservation Commission has issued a certificate of appropriateness for the work listed above. The work was found to be consistent with preservation guidelines. The following conditions apply to this certificate of appropriateness:

Main roof shall be natural slate. Any roof areas intact enough for repair shall be repaired with slate. Temporary steeple roof may be membrane or asphalt shingle.

Standard Masonry Conditions

New mortar must match the original mortar in terms of color, texture, grain size, joint width, and joint finish/profile. The compressive strength of the repointing mortar shall be equal or less than the compressive strength of the original mortar and surrounding brick or stone. The replacement mortar shall contain approximately the same ingredient proportions of the original mortar. Mortar that is too hard is subject to premature failure and could damage the masonry. See the city's books As Good As New or Good for Business, Masonry Chapters, for more information. In most cases, this means a lime mortar with natural hydraulic cement rather than Portland cement. No joint of a width less than 3/8" may be cleaned of damaged/decomposed mortar with power disc grinders. No over-cutting of the joints is permitted. Remove decomposed mortar back into the wall 2.5 times the height of the joint before repointing.

New brick must match as closely as possible the color texture, size, and finish of the original brick.

A sample panel of brick and mortar must be reviewed and approved by HPC staff prior to general installation of the material.

23 pages total

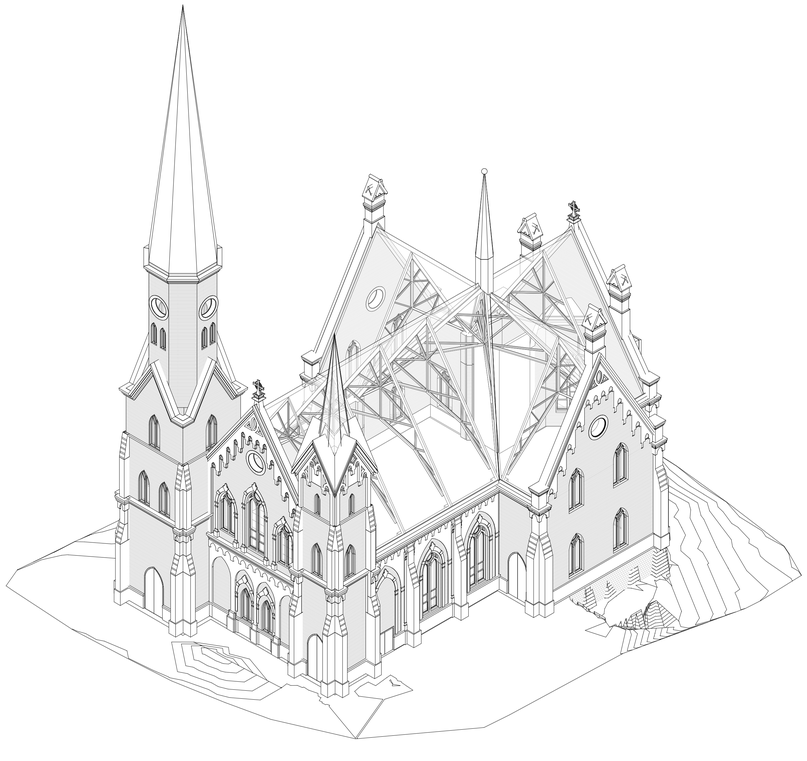
All work must be done in a craftsman-like manner, and must be completed within one year of the date this certificate was issued. Staff must approve any changes or additions to this certificate before work begins. Work that is not completed in accordance with this certificate may be subject to correction orders or citations. If you require technical assistance, please contact Historic Preservation staff as follows: Phone: (414) 286-5712 E-mail: hpc@milwaukee.gov.

If permits are required, you are responsible for obtaining them from the Milwaukee Development Center. If you have questions about permit requirements, please consult the Development Center's web site, www.milwaukee.gov/build, or call (414) 286-8210.

Digitally signed by Tim Askin
Date: 2019.01.07 10:14:22
-06'00'

City of Milwaukee Historic Preservation Staff

Copies to: Development Center, Ald. Robert Bauman, Contractor, DNS-Condemnation



TRINITY EVANGELICAL LUTHERAN CHURCH RESTORATION

09/21/2018

18-122

1046 N 9TH ST,
MILWAUKEE WI 53206

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PROJECT TEAM

OWNER
TRINITY EVANGELICAL LUTHERAN CHURCH
1046 North 9th. Street
Milwaukee, Wisconsin 53206

ARCHITECT
UIHLEIN-WILSON / RAMLOW-STEIN ARCHITECTS, INC. (UWRS)
322 East Michigan Street, #400
Milwaukee, Wisconsin 53202
Telephone: (414) 271-8899
Fax: (414) 271-8899

STRUCTURAL ENGINEERING
PIERCE ENGINEERS, INC.
181 N Broadway
Milwaukee, Wisconsin 53202
Telephone: (414) 276-6060

UIHLEIN | WILSON
RAMLOW | STEIN
ARCHITECTURE | DESIGN | PLANNING

322 East Michigan Street
Milwaukee, WI 53202

414.271.8899
office@uihlein-wilson.com
www.uihlein-wilson.com

REVISIONS

No.	Date:	Description:
1	10/11/2018	Addendum 1

PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
RESTORATION

SHEET
TITLE SHEET

DATE
09/21/2018

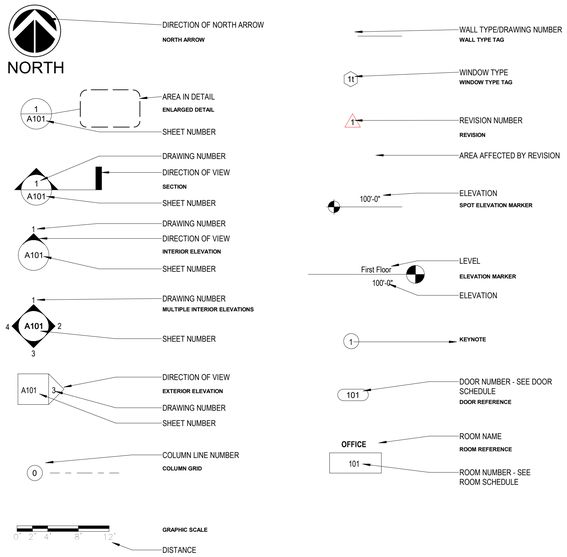
PROJECT NO.
18-122

SHEET NO.
G000

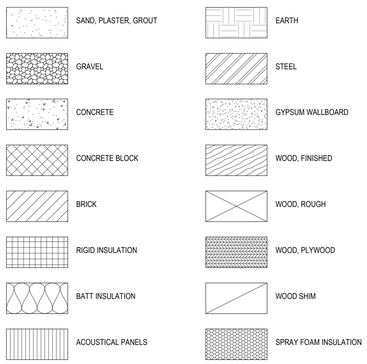
ABBREVIATIONS

/	ANGLE
@	AT
%	PERCENT
AB	ANCHOR BOLT
A/C	AIR CONDITIONING
ACOUS	ACOUSTICAL
ACP	ACOUSTICAL CEILING PANELS
ACT	ACOUSTICAL CEILING TILES
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
AP	ACCESS PANEL/ACRYLIC PANEL
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
ASB	ASBESTOS
ASPH	ASPHALT
AWP	ACOUSTICAL WALL PANEL
B-B	BACK TO BACK
B&B	BALLED AND BURLAPPED
BB	BULLETIN BOARD
BD	BOARD/BEAD
BF	BOTH FACES
BIT	BITUMINOUS
BL	BORROWED LITE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BOS	BOTTOM OF STEEL
BRG	BEARING
BRK	BRICK
BS	BACK SPLASH
BSMT	BASEMENT
BTM	BOTTOM
BTU	BRITISH THERMAL UNIT
BUR	BUILT UP ROOF
BW	BOTH WAYS
C	CHANNEL
CAB	CABINET
CB	CATCH BASIN/CORNER BEAD
CBP	CHALK BOARD PAINT
C/C	CENTER TO CENTER
CER	CERAMIC
CF	CORK FLOORING
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CG	CORNER GUARD
CG-S	CORNER GUARD STAINLESS STEEL
CG-W	CORNER GUARD WOOD LOOK
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CM	CENTIMETER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRUGATED
CPT	CARPET
CR	CHAIR RAIL/COAT RACK/COLD ROLLED
CSMT	CASEMENT
CTR	COUNTER
CTSK	COUNTERSUNK
CU	CUBIC
D	DEPTH
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DO	DITTO/DOOR OPENING
DP	DRAPERY
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	EAST
E-	EXISTING
EA	EACH
EL/ELEV	ELEVATION/ELEVATOR
ELECT	ELECTRIC(AL)
EP	EPOXY PAINT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST/E-	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM/FORCED AIR/FRESH AIR
FAB	FABRIC
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
F-F	FACE TO FACE
FF	FINISHED FLOOR
FH	FLAT HEAD (SCREW)
FHC	FIRE HOSE CABINET
FIN	FINISHED
FIXT	FIXTURE
FL	FLOW LINE
FLR	FLOOR
FLUOR	FLUORESCENT
FOC	FACE OF COLUMN
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FRP	FIBERGLASS REINFORCED PANEL
FS	FULL SIZE
FT	FOOT/FEET
FTF	FLOOR TO FLOOR
FTG	FOOTING
FURN	FURNITURE
FV	FIELD VERIFY
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS
GLP	GLASS PARTITION
GR	GRADE/GROUND/GROUT/GRANITE
GS	GLASS SURFACE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HIGH
HB	HOSE BIB
HC	HOLLOW CORE
HDW	HARDWARE
HK	HOUSEKEEPING
HM	HOLLOW METAL
HOR	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HVACC	HVAC CONTRACTOR
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH(ES)
INCL	INCLUDE
INFO	INFORMATION
INS	INSULATED
INSUL	INSULATED
INT	INTERIOR
JAN	JANITOR
JB	JUNCTION BOX
JC	JANITOR'S CLOSET
JT	JOINT
LAM	LAMINATED
LAV	LAVATORY
LB	POUND
LBS	POUNDS
LH	LEFT HAND
LIN	LINEAR
LINO	LINOLEUM
LLV	LONG LEG VERTICAL
LT	LIGHT
LS	LIMESTONE
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MC	MECHANICAL CONTRACTOR
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MB	MARBLE BASE
MRBL	MARBLE
MTL	METAL
MULL	MULLION
MULTI	MULTIPLE
N/A	NOT APPLICABLE
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NS	NO SCALE
NTE	NOT TO EXCEED
NTS	NOT TO SCALE
OA	OUTSIDE AIR/OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OPPOSITE HAND/OVERHEAD
OPG/OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE(S)
P	PAINT
PART	PARTITION
PCF	POUNDS PER CUBIC FOOT
PL	PLATE/PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS/PLAST	PLASTER/PLASTIC
PLBG	PLUMBING
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PS	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P&S	POLE AND SHELF
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
PTW	PORCELAIN WALL TILE
PTM	PATCH TO MATCH/PORCELAIN TILE MOSAIC
PVC	POLYVINYL CHLORIDE
PWB	PAINTED WOOD BASE
PWD/PLYWD	PLYWOOD
QS	QUARTZ SURFACE
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTW	QUARRY WALL TILE
R	RADIUS/(STAIR) RISER
R/A	RETURN AIR
RB	RUBBER BASE
RBR	RUBBER FLOORING
RCP	REINFORCED CONCRETE PIPE/REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
REINF	REINFORCING
REQD	REQUIRED
RES	RESILIENT
REV	REVISION
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	ROLLER SHADE
RST	RUBBER STAIRS
S	SINK/SOUTH
SAN	SANITARY
SB	SOIL BORING
SC	SOLID CORE
SCHED	SCHEDULE(D)
SCONC	SEALED CONCRETE
SD	SOAP DISPENSER
SECT	SECTION
SH	SHELF/SINGLE HUNG
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SP	SPECIALTY PAINT
SQ	SQUARE
SR	SHOWER ROD
SS	SERVICE SINK/STAINLESS STEEL/SOLID SURFACE
ST	STONE
STB	STONE BASE
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STO/STOR	STORAGE
STRUCT	STRUCTURAL
STW	STONE WAINSCOT
SUSP	SUSPENDED
S&V	STAIN AND VARNISH
SWB	STAINED WOOD BASE
SYM	SYMMETRICAL
T	TREAD
TB	TACKBOARD/TOWEL BAR
T&B	TOP AND BOTTOM
TEL	TELEPHONE
TEMP	TEMPERATURE/TEMPERED/TEMPORARY
T&G	TONGUE AND GROOVE
THK	THICK(NESS)
TOB	TOP OF BEAM
TOC	TOP OF CURB
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITIONS
TPH	TOILET PAPER HOLDER
TRZO	TERRAZZO
TRZOB	TERRAZZO BASE
TS	TRANSITION STRIP
TYP	TYPICAL
UL	UNDERWRITERS' LABORATORY
UNO	UNLESS NOTED OTHERWISE
UNFIN	UNFINISHED
UR	URINAL
V&P	VALANCE & PANEL
VAT	VINYL ASBESTOS TILE
VB	VAPOR BARRIER
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIN	VINYL
VOL	VOLUME
VTR	VENT THROUGH ROOF
VCP	VINYL COATED CEILING PANEL
W	WEST/WIDE/WIDTH
W/	WITH
WB	WOOD BASE
WC	WATER CLOSET/WALLCOVERING
WD	WOOD/WOOD FLOORING
WDM	WOOD MILLWORK
WDP	WOOD WALL PANELING
WDW	WINDOW
WF	WIDE FLANGE
WH	WALL HUNG
W/O	WITHOUT
WP	WATERPROOF/WORKING POINT
WR	WATER RESISTANT
WT	WEIGHT/WINDOW TREATMENT
WWF	WELDED WIRE FABRIC
YD	YARD

DRAWING SYMBOLS



MATERIAL SYMBOLS



UIHLEIN | WILSON
RAMLOW | STEIN
ARCHITECTURE | DESIGN | PLANNING

322 East Michigan Street
Milwaukee, WI 53202

414.271.8899
office@uihlein-wilson.com
www.uihlein-wilson.com

REVISIONS

No.	Date:	Description:

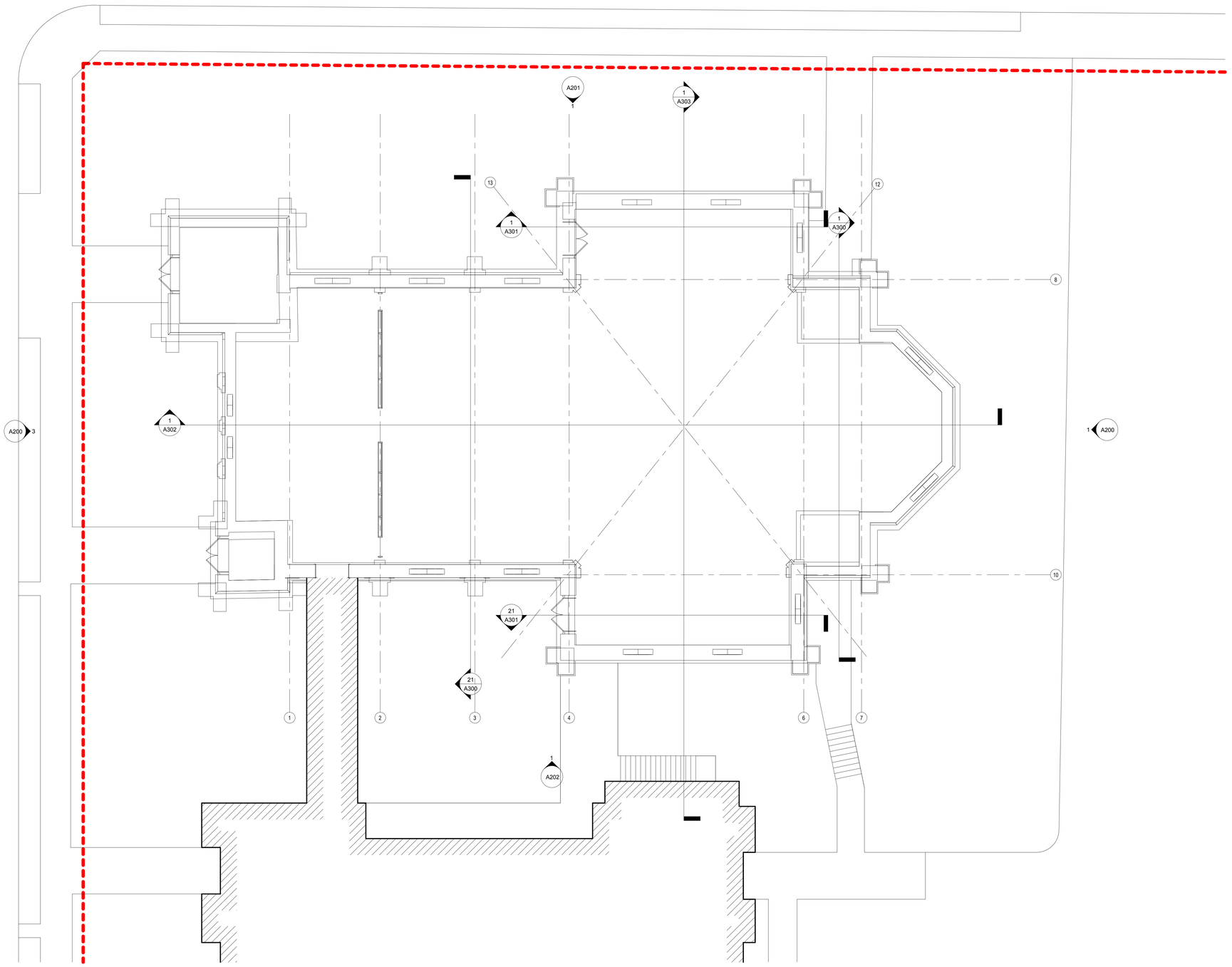
PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
RESTORATION

SHEET
CODE INFORMATION, ABBREVIATIONS & SYMBOLS

DATE
09/21/2018

PROJECT NO.
18-122

SHEET NO.
G001



1 A101 FIRST FLOOR - EXISTING
SCALE: 1/8" = 1'-0"

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No.	Date:	Description:

PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
RESTORATION

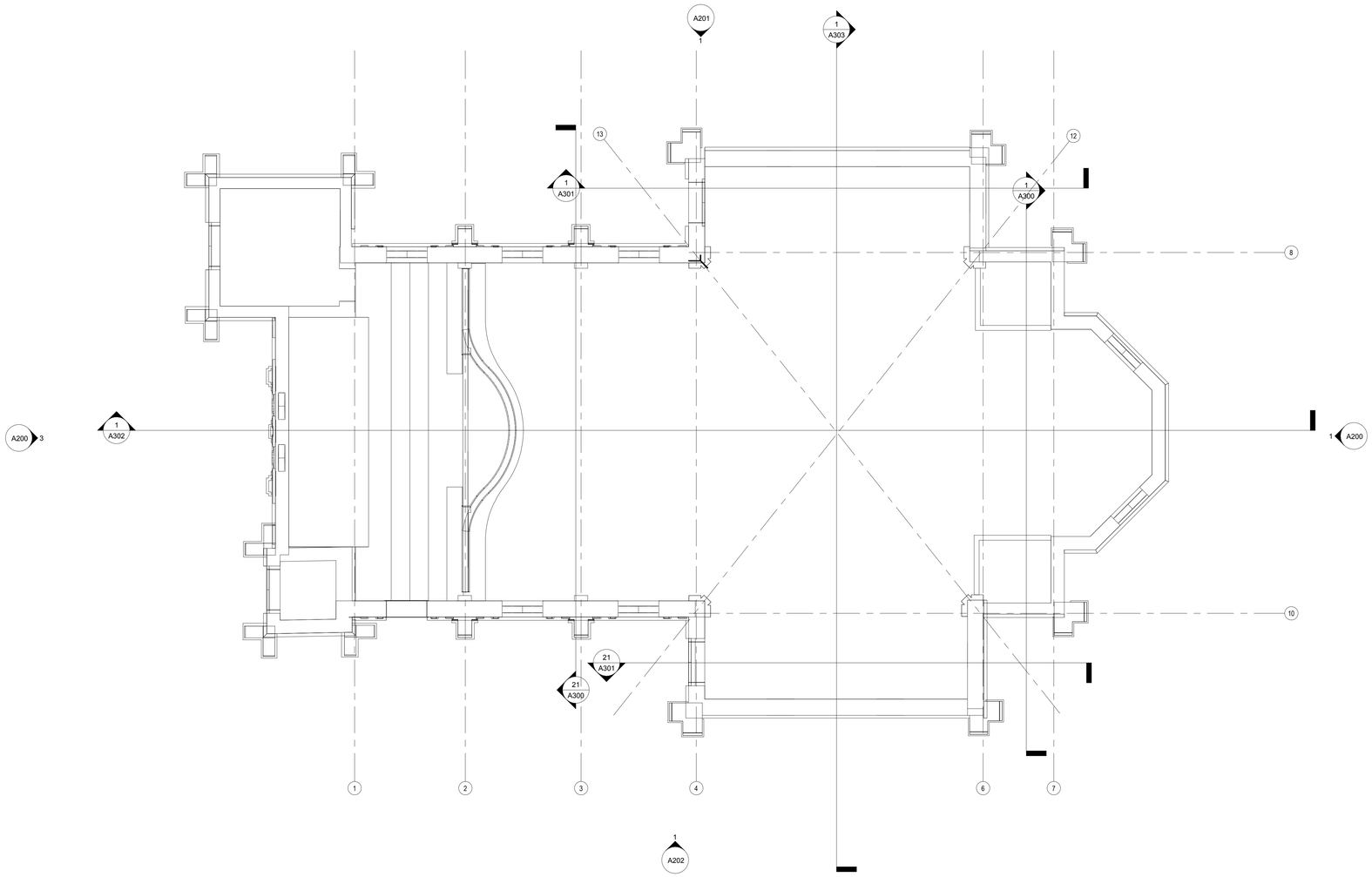
SHEET
FIRST FLOOR PLAN

DATE
09/21/2018

PROJECT NO.
18-122

SHEET NO.
A101

NORTH



1 A102 SECOND FLOOR - EXISTING
SCALE: 1/8" = 1'-0"

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Milwaukee, WI 53202

414.271.8899
office@uihlein-wilson.com
www.uihlein-wilson.com

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No.	Date:	Description:

PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
RESTORATION

SHEET
SECOND
FLOOR PLAN

DATE
09/21/2018

PROJECT NO.
18-122

SHEET NO.
A102

NORTH

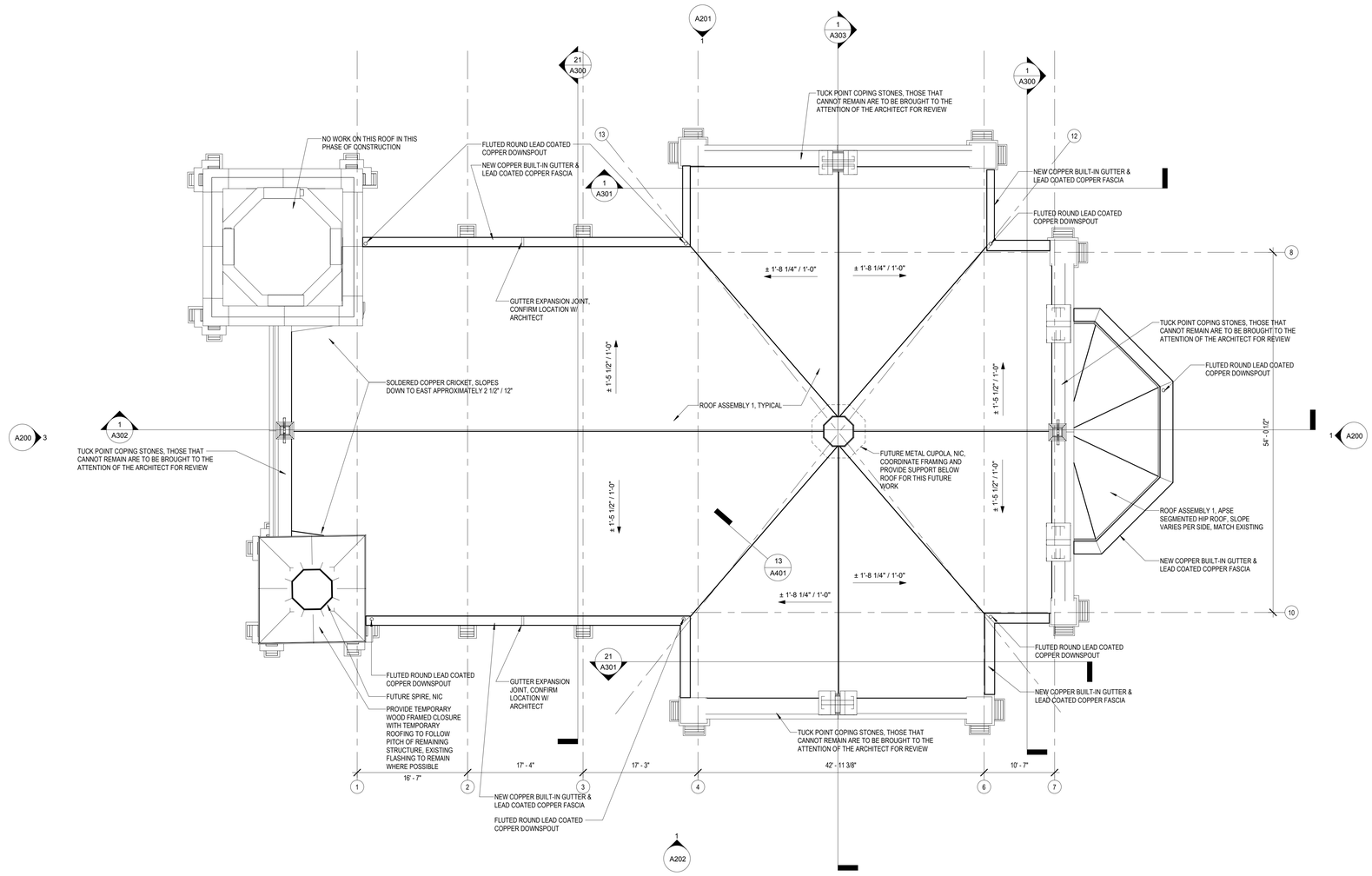
ROOF ASSEMBLY LEGEND

ROOF ASSEMBLY 1

FROM EXTERIOR TO INTERIOR:

A1. SLATE AS PRIMARY BID: MACHINE CUT, 10" X 20" X 1/4" TO 3/8", SPANISH UNFADING BLACK SLATE
A2. SYNTHETIC SHINGLE AS ALTERNATE BID: 10" X 20" X 1/4" TO 3/8", GAF SLATELINE ANTIQUE SLATE

A. APPROVED SHINGLES
B. UNDERLAYMENT MEMBRANE, SHARKSKIN ULTRA OR APPROVED EQUAL
C. 5/8" APA RATED EXTERIOR GRADE PLYWOOD, 1/2 STAGGER JOINTS WITH INSULATION LAYER BELOW
D. (2) LAYERS OF 2 1/2" POLYISOCYANURATE ROOF INSULATION WITH 1/2 STAGGER JOINTS
E. VAPOR BARRIER, FIRESTONE V-FORCE OR APPROVED EQUAL
F. 1/2" GYPSUM BOARD SUBSTRATE
G. 3" METAL DECK



1 A103 ROOF - NEW
SCALE: 1/8" = 1'-0"

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322 East Michigan Street
Milwaukee, WI 53202

414.271.8899
office@uihlein-wilson.com
www.uihlein-wilson.com

REVISIONS

No.	Date:	Description:
1	10/11/2018	Addendum 1
2	10/30/2018	Addendum 2

PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
RESTORATION

SHEET
ROOF PLAN

DATE
09/21/2018

PROJECT NO.
18-122

SHEET NO.
A103

NORTH

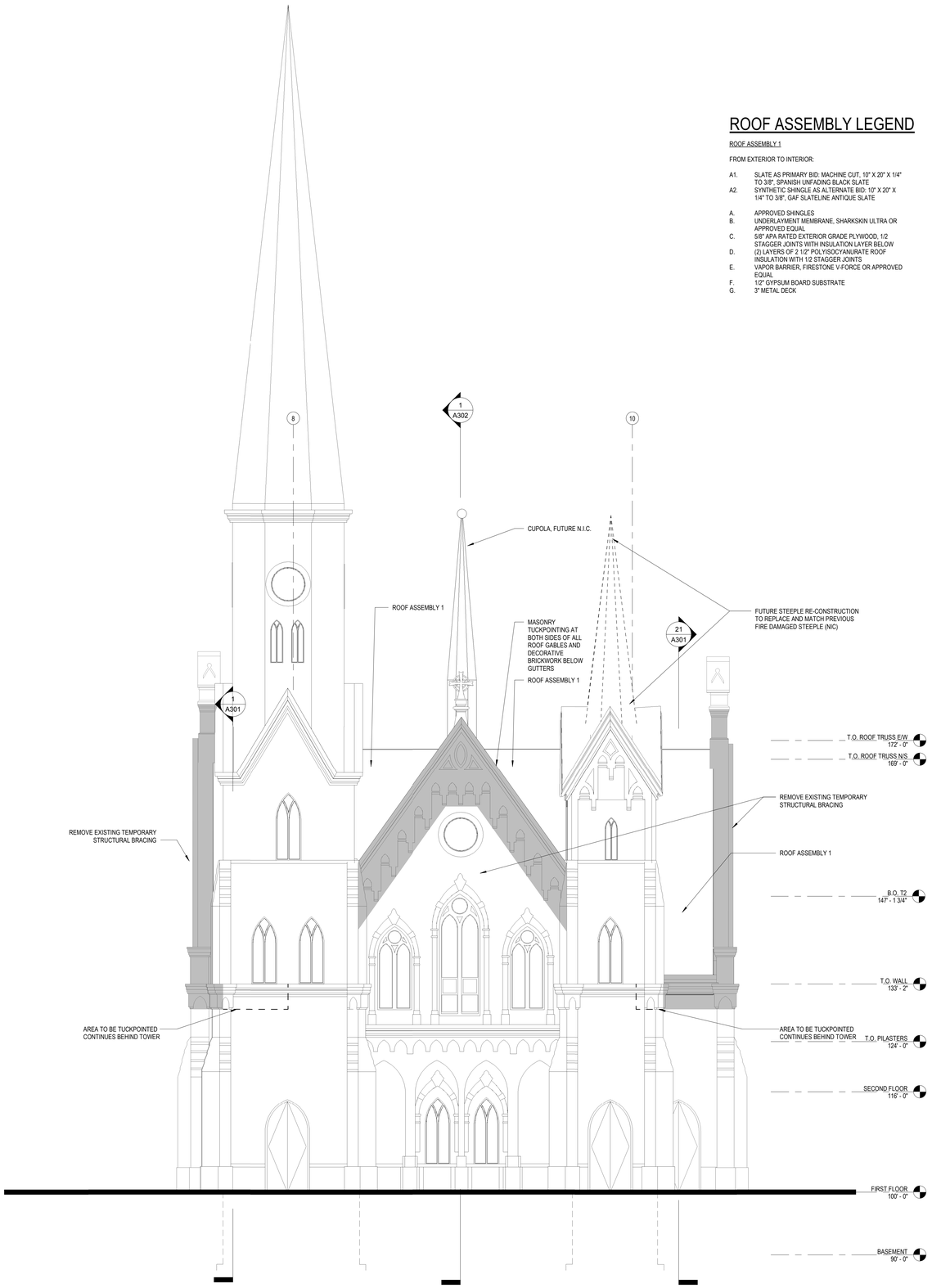
ROOF ASSEMBLY LEGEND

ROOF ASSEMBLY 1

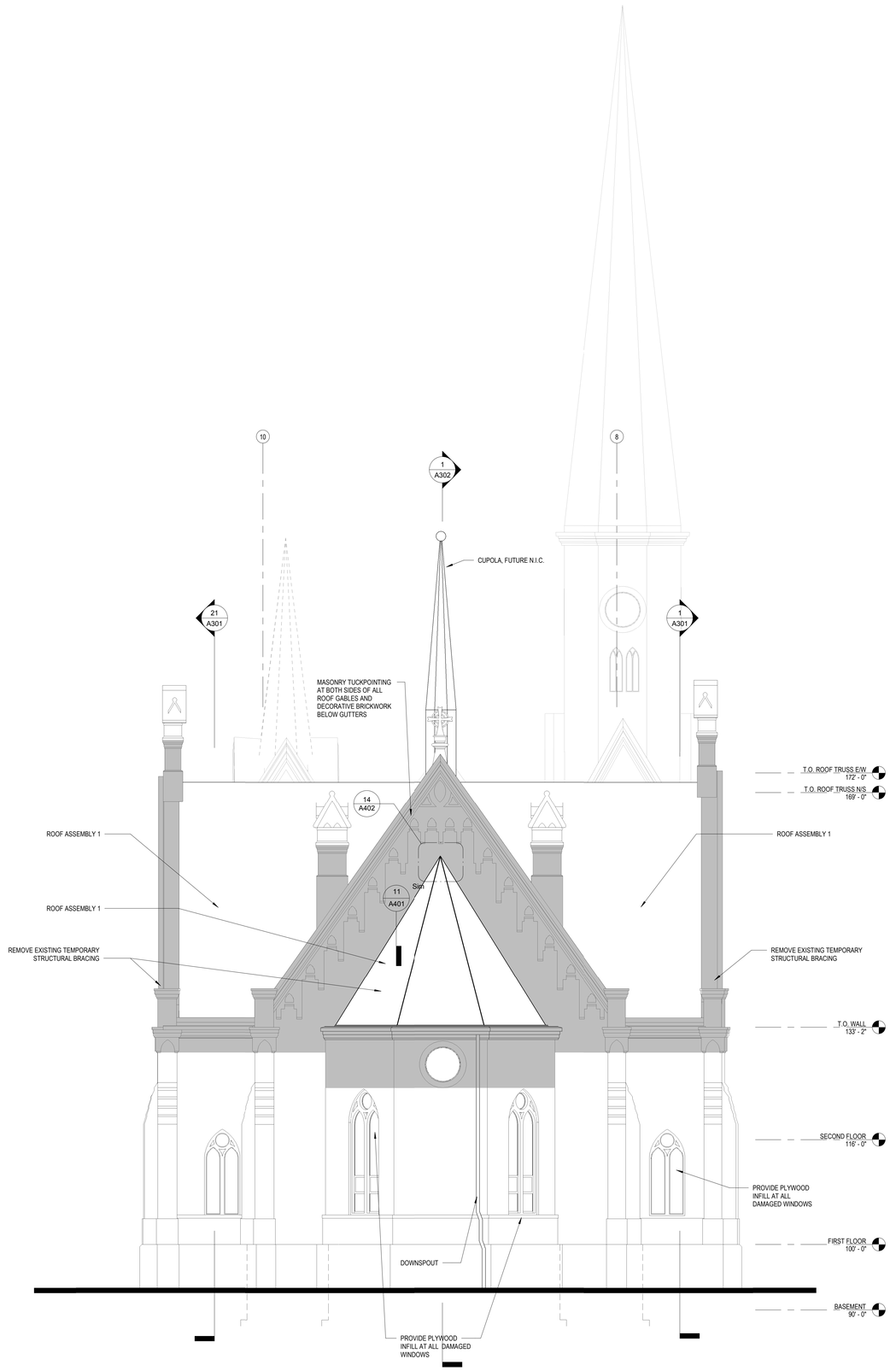
FROM EXTERIOR TO INTERIOR:

A1. SLATE AS PRIMARY BID: MACHINE CUT, 10" X 20" X 1/4" TO 3/8", SPANISH UNFADING BLACK SLATE
A2. SYNTHETIC SHINGLE AS ALTERNATE BID: 10" X 20" X 1/4" TO 3/8", GAF SLATELINE ANTIQUE SLATE

A. APPROVED SHINGLES
B. UNDERLAYMENT MEMBRANE; SHARKSKIN ULTRA OR APPROVED EQUAL
C. 5/8" APA RATED EXTERIOR GRADE PLYWOOD, 1/2 STAGGER JOINTS WITH INSULATION LAYER BELOW
D. (2) LAYERS OF 2 1/2" POLYISOCYANURATE ROOF INSULATION WITH 1/2 STAGGER JOINTS
E. VAPOR BARRIER, FIRESTONE V-FORCE OR APPROVED EQUAL
F. 1/2" GYPSUM BOARD SUBSTRATE
G. 3" METAL DECK



3 A200 ELEVATION - EXISTING - WEST
SCALE: 1/8" = 1'-0"



1 A200 ELEVATION - EXISTING - EAST
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322 East Michigan Street
Milwaukee, WI 53202

414.271.8899
office@uihlein-wilson.com
www.uihlein-wilson.com

REVISIONS

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1	10/11/2018	Addendum 1
2	10/30/2018	Addendum 2

PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
RESTORATION

SHEET
BUILDING ELEVATIONS

DATE
09/21/2018

PROJECT NO.
18-122

SHEET NO.
A200

ROOF ASSEMBLY LEGEND

ROOF ASSEMBLY 1

FROM EXTERIOR TO INTERIOR:

A1. SLATE AS PRIMARY BID: MACHINE CUT, 10" X 20" X 1/4" TO 3/8", SPANISH UNFADING BLACK SLATE
A2. SYNTHETIC SHINGLE AS ALTERNATE BID: 10" X 20" X 1/4" TO 3/8", GAF SLATELINE ANTIQUE SLATE

A. APPROVED SHINGLES
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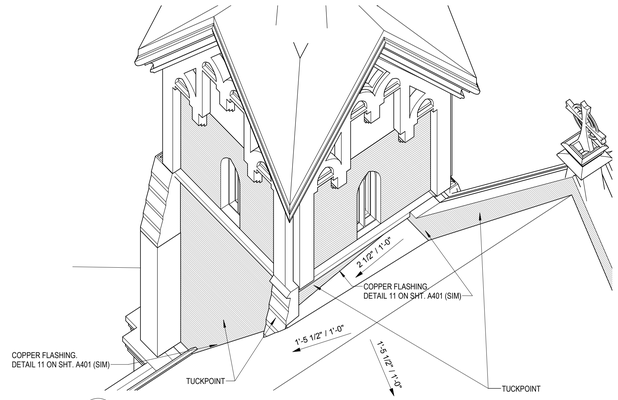
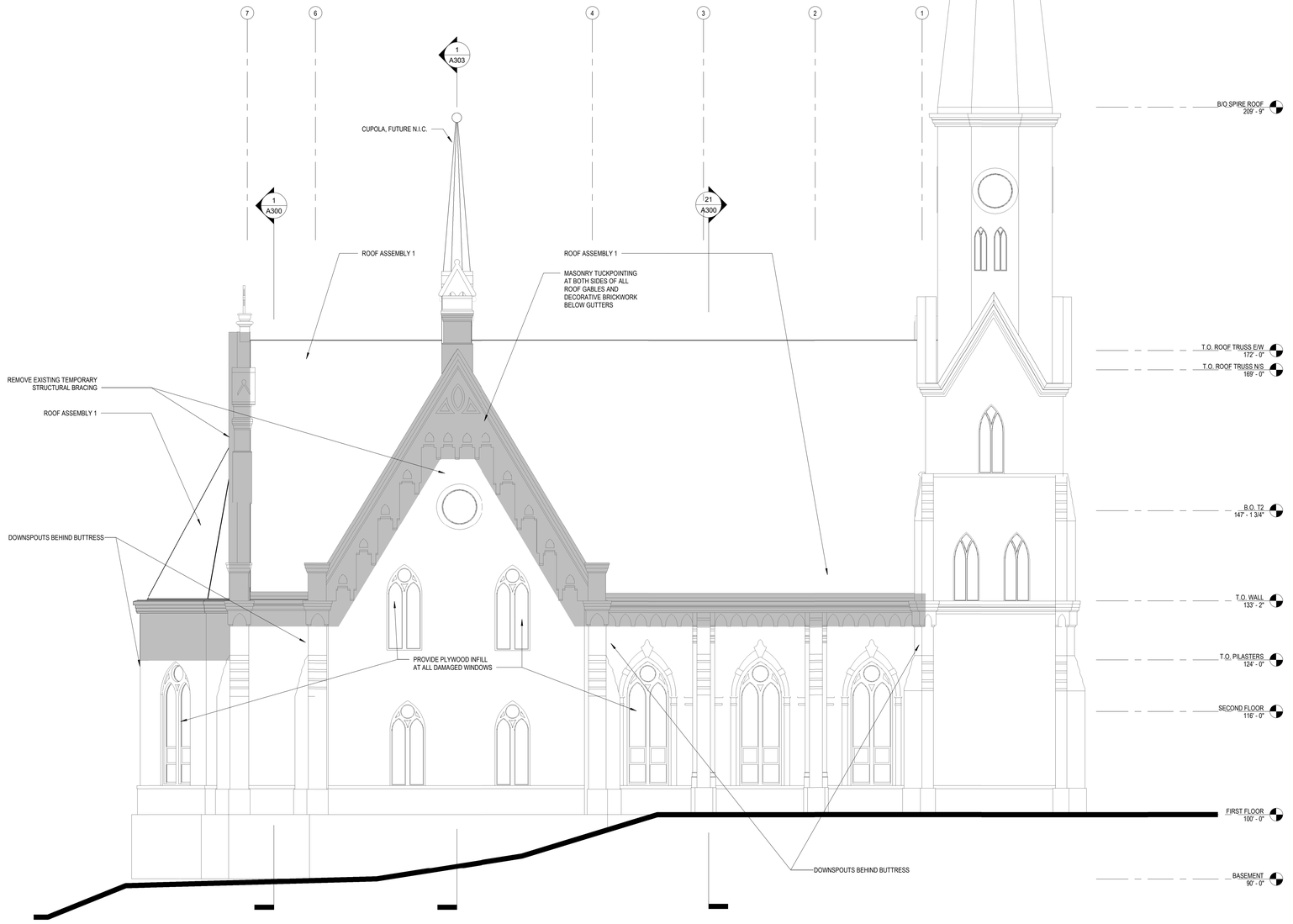
C. 5/8" APA RATED EXTERIOR GRADE PLYWOOD, 1/2 STAGGER JOINTS WITH INSULATION LAYER BELOW
D. (2) LAYERS OF 2 1/2" POLYISOCYANURATE ROOF INSULATION WITH 1/2 STAGGER JOINTS
E. VAPOR BARRIER, FIRESTONE V-FORCE OR APPROVED EQUAL
F. 1/2" GYPSUM BOARD SUBSTRATE
G. 3" METAL DECK



2 A201 SOUTH TOWER CRICKET - BIRDS EYE VIEW
SCALE:



1 A201 ELEVATION - EXISTING - NORTH
SCALE: 1/8" = 1'-0"

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REVISIONS

No.	Date:	Description:
1	10/11/2018	Addendum 1
2	10/30/2018	Addendum 2

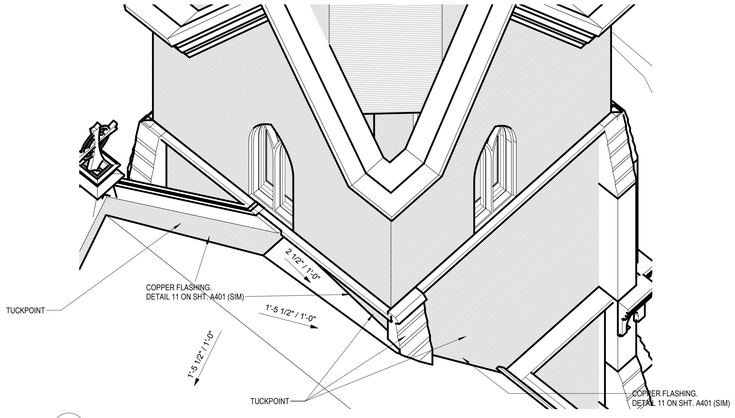
PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
RESTORATION

SHEET
BUILDING ELEVATIONS

DATE
09/21/2018

PROJECT NO.
18-122

SHEET NO.
A201



2 A202 NORTH TOWER CRICKET - BIRDS EYE VIEW
SCALE:

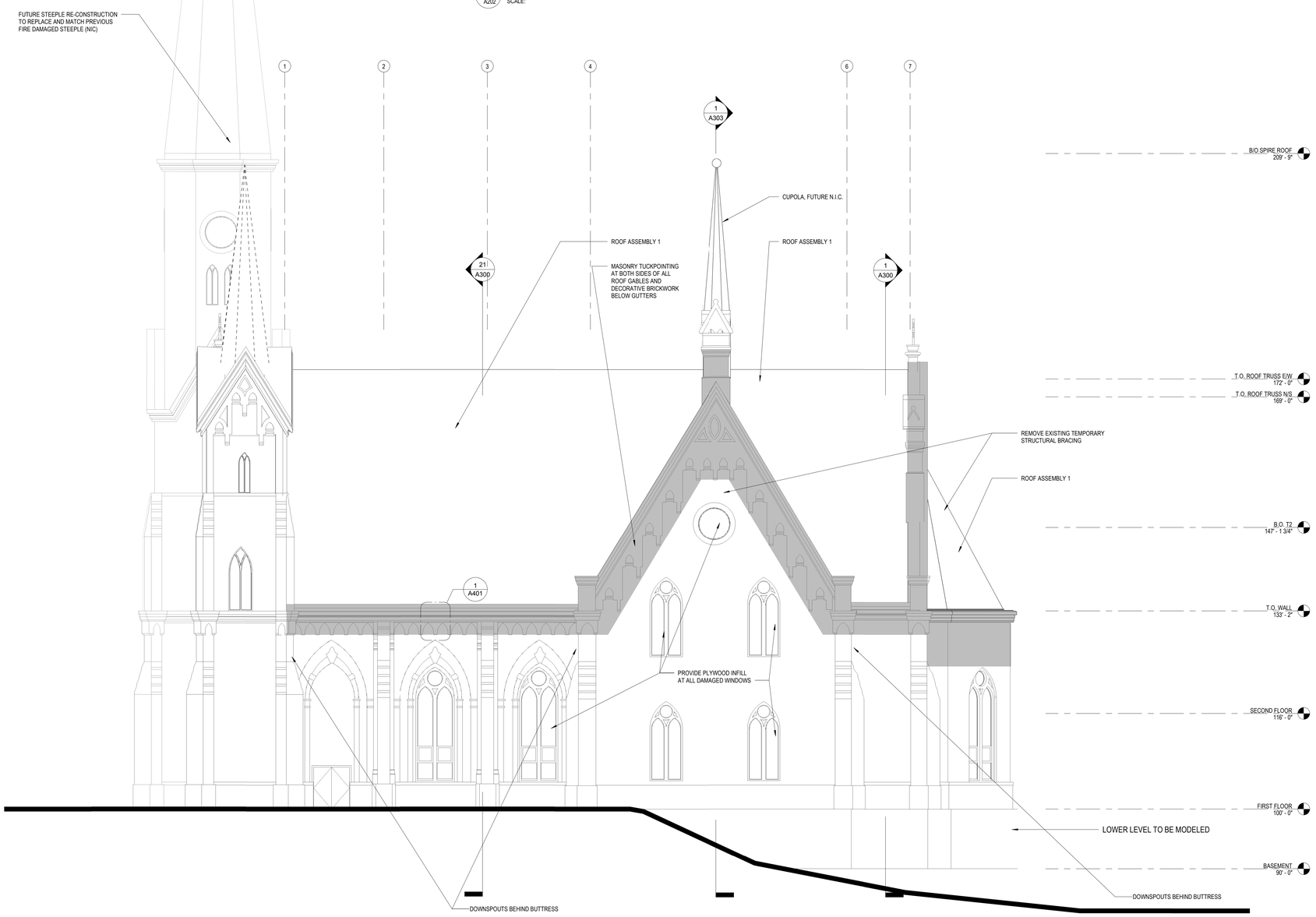
ROOF ASSEMBLY LEGEND

ROOF ASSEMBLY 1

FROM EXTERIOR TO INTERIOR:

A1. SLATE AS PRIMARY BID: MACHINE CUT, 10" X 20" X 1/4" TO 3/8", SPANISH UNFADING BLACK SLATE
A2. SYNTHETIC SHINGLE AS ALTERNATE BID: 10" X 20" X 1/4" TO 3/8", GAF SLATELINE ANTIQUE SLATE

A. APPROVED SHINGLES
B. UNDERLAYMENT MEMBRANE, SHARKSKIN ULTRA OR APPROVED EQUAL
C. 5/8" APA RATED EXTERIOR GRADE PLYWOOD, 1/2 STAGGER JOINTS WITH INSULATION LAYER BELOW
D. (2) LAYERS OF 2 1/2" POLYISOCYANURATE ROOF INSULATION WITH 1/2 STAGGER JOINTS
E. VAPOR BARRIER, FIRESTONE V-FORCE OR APPROVED EQUAL
F. 1/2" GYPSUM BOARD SUBSTRATE
G. 3" METAL DECK



1 A202 ELEVATION - EXISTING - SOUTH
SCALE: 1/8" = 1'-0"

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414.271.8899
office@uihlein-wilson.com
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No.	Date:	Description:
1	10/11/2018	Addendum 1
2	10/30/2018	Addendum 2

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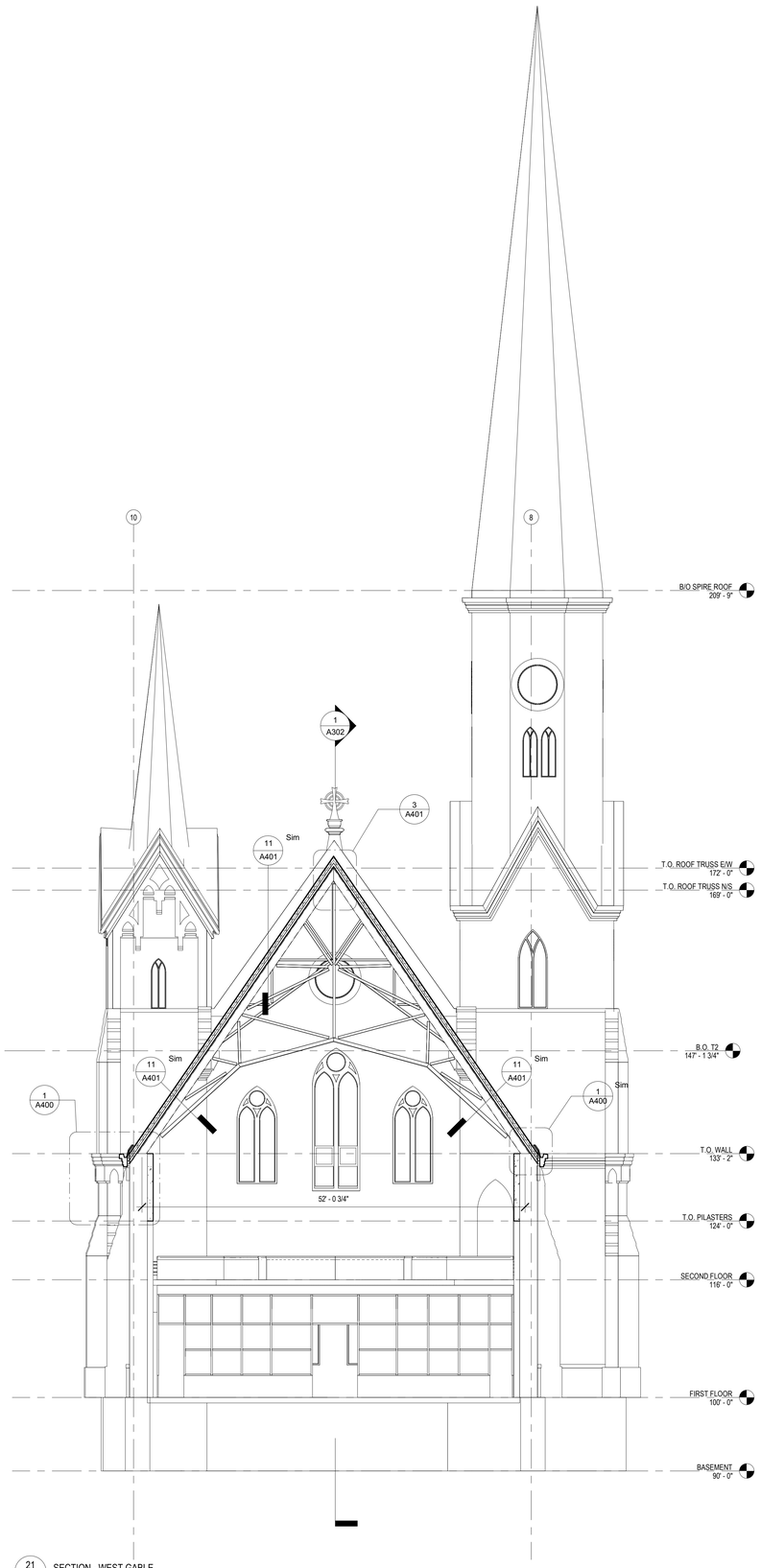
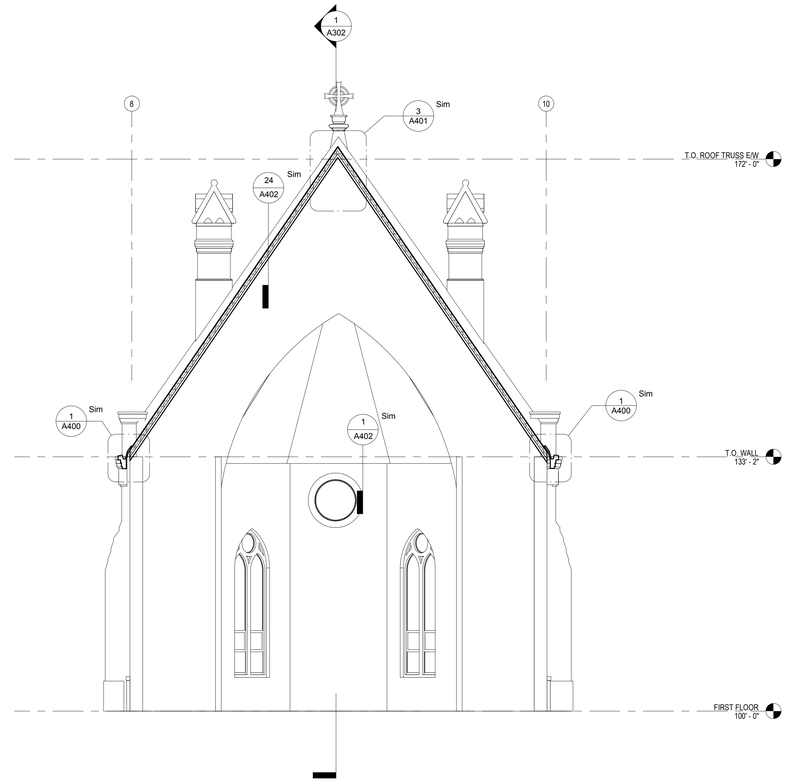


21 A300 SECTION - WEST GABLE
SCALE: 1/8" = 1'-0"



1 A300 SECTION - EAST GABLE
SCALE: 1/8" = 1'-0"

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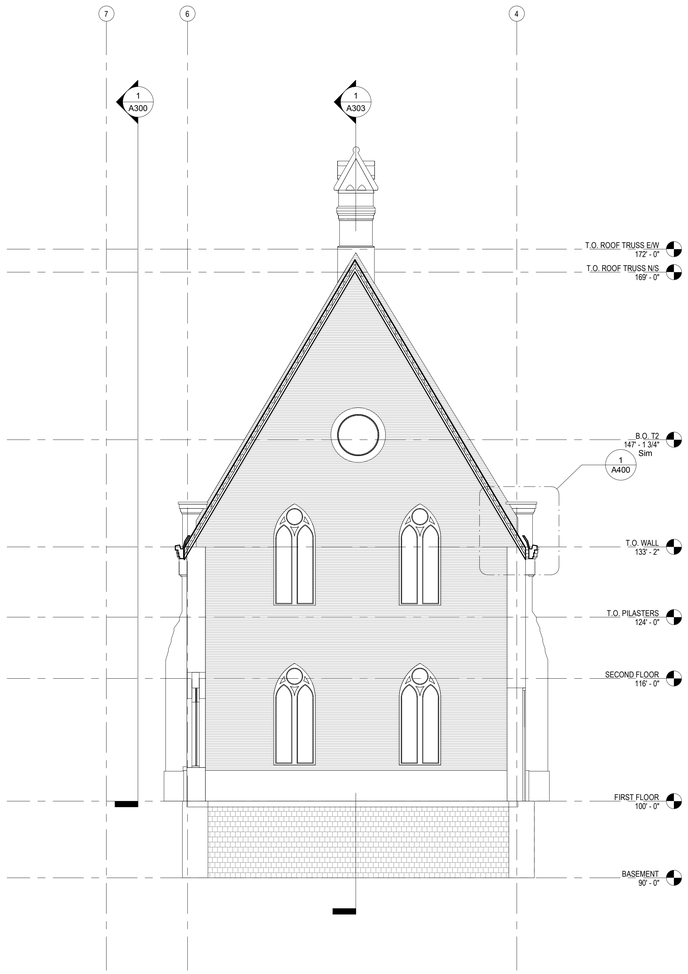
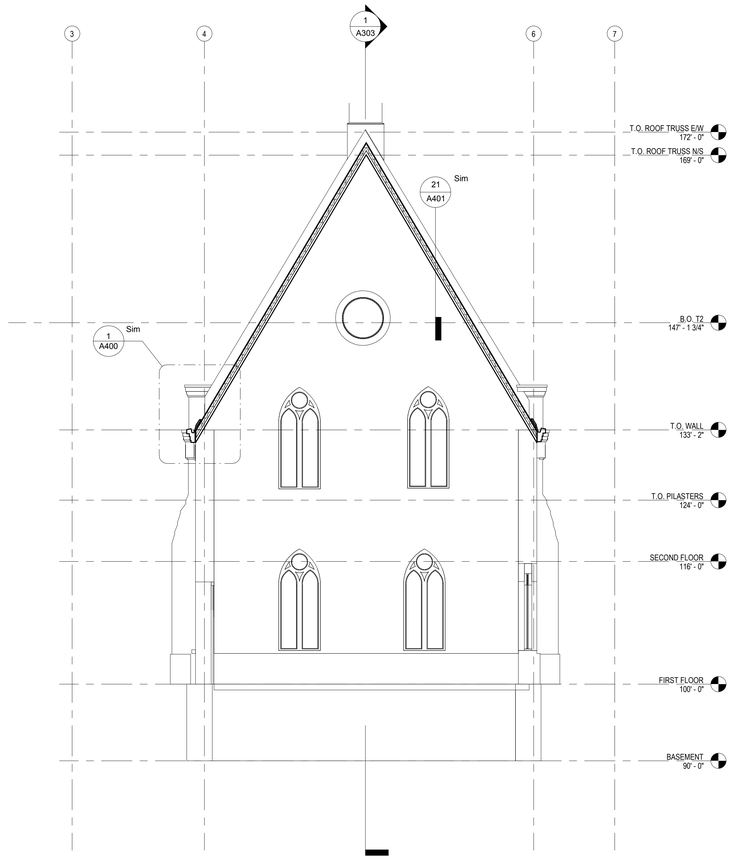


21 A301 SECTION - SOUTH GABLE
SCALE: 1/8" = 1'-0"



1 A301 SECTION - NORTH GABLE
SCALE: 1/8" = 1'-0"

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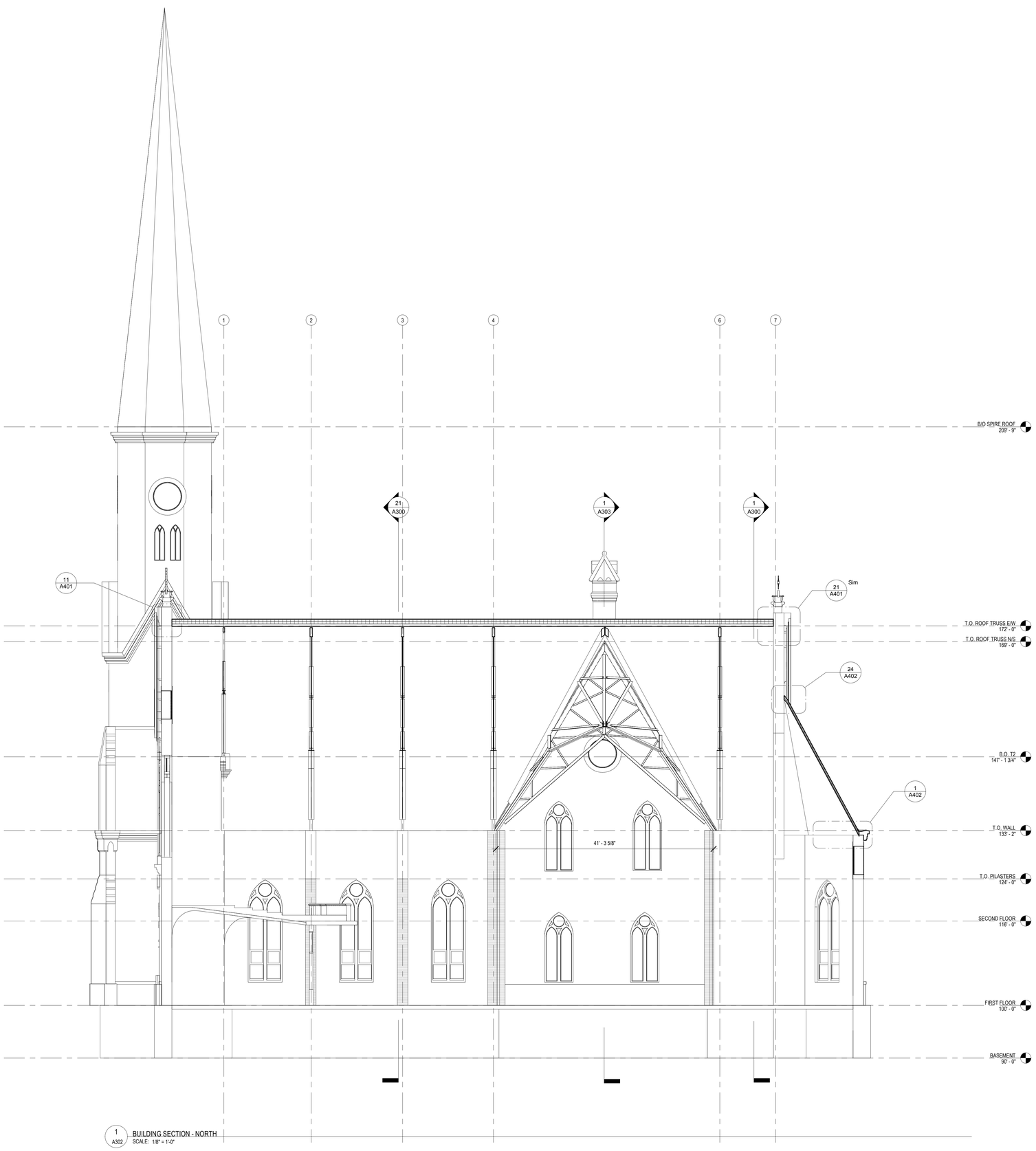
A301



1 A302 BUILDING SECTION - NORTH
SCALE: 1/8" = 1'-0"

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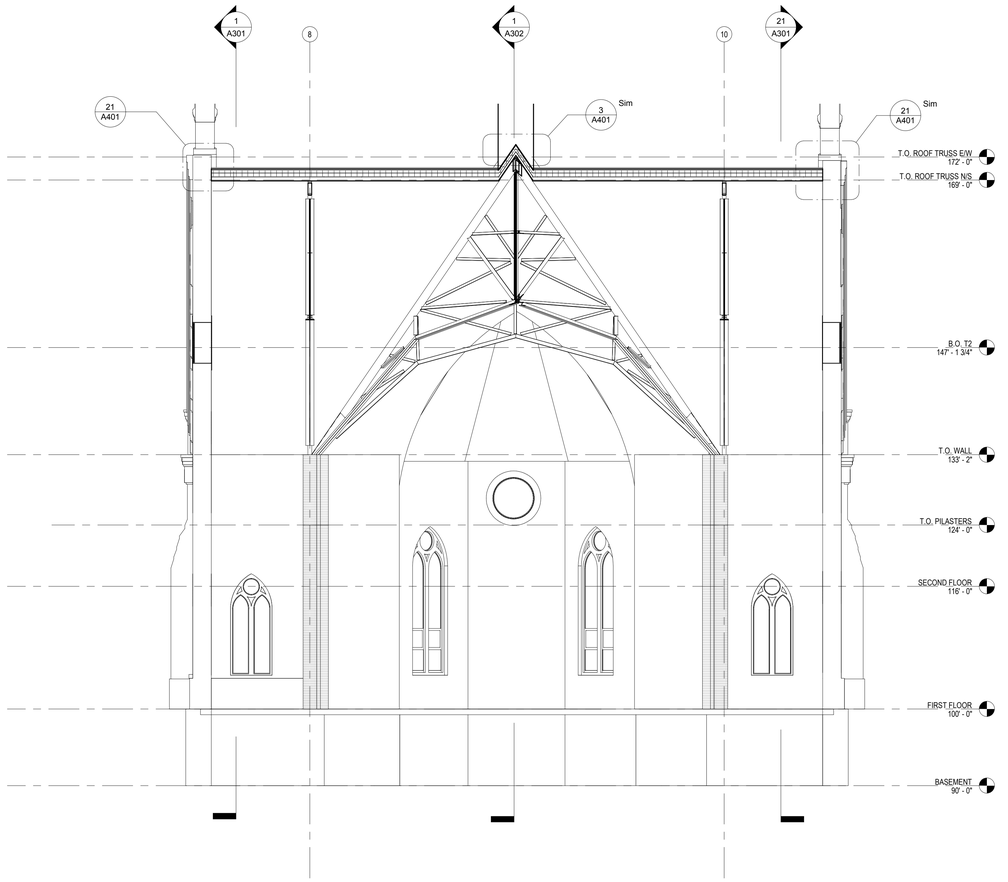

1 A303 BUILDING SECTION - EAST
SCALE: 1/8" = 1'-0"

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SECTIONS

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18-122

SHEET NO.
A303

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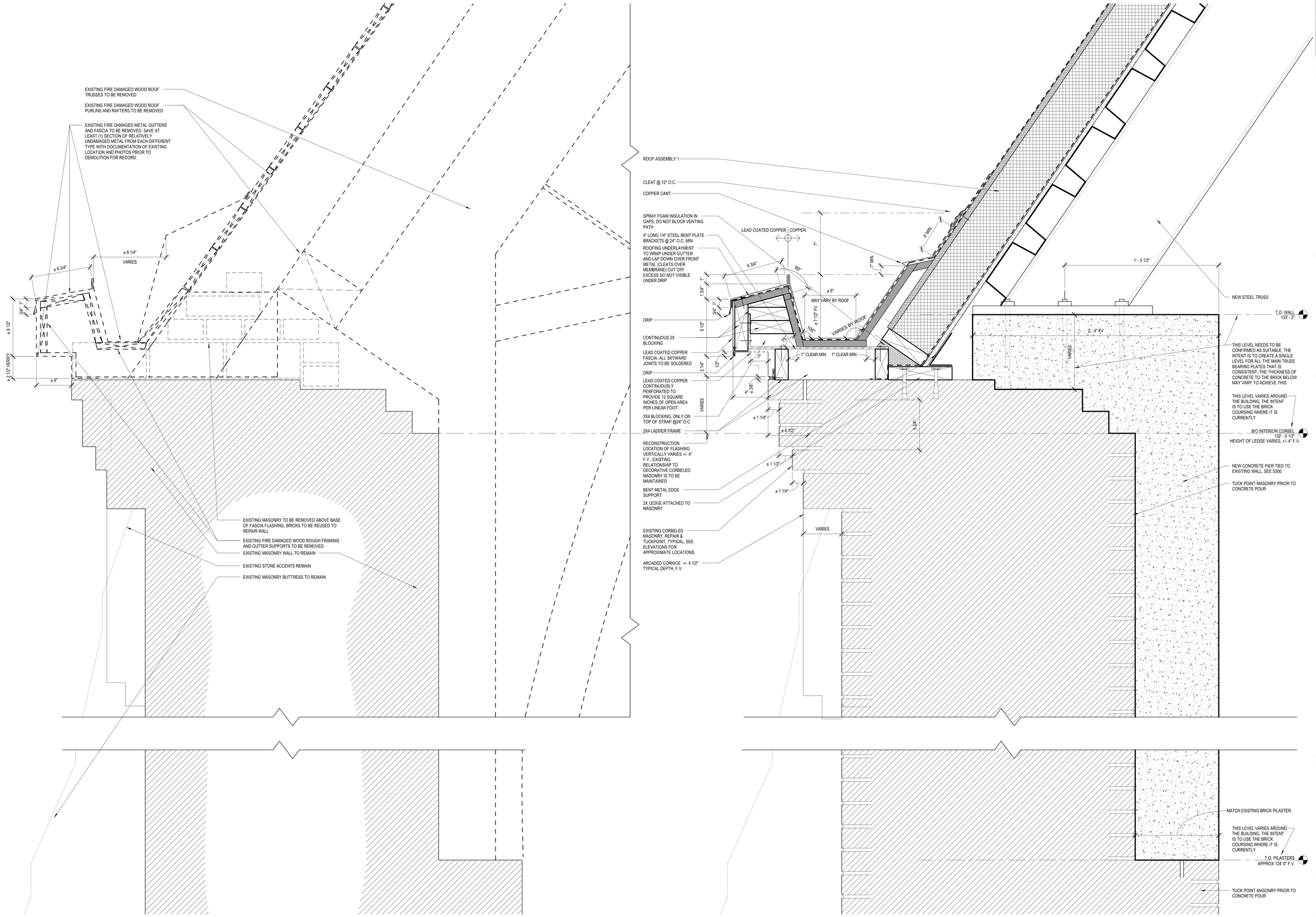

EXISTING TOP OF WALL
SHOWS FIRE DAMAGED MEMBERS AS INTACT FOR REFERENCE

REBUILT TOP OF WALL

1 / A400 DETAIL - T/O WALL AND GUTTER - WEST
SCALE: 3" = 1'-0"

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2	10/30/2018	Addendum 2

PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
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DETAILS

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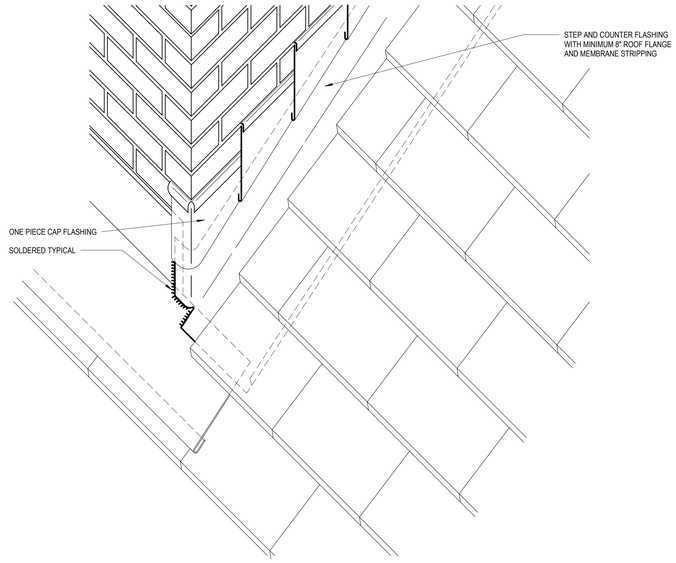
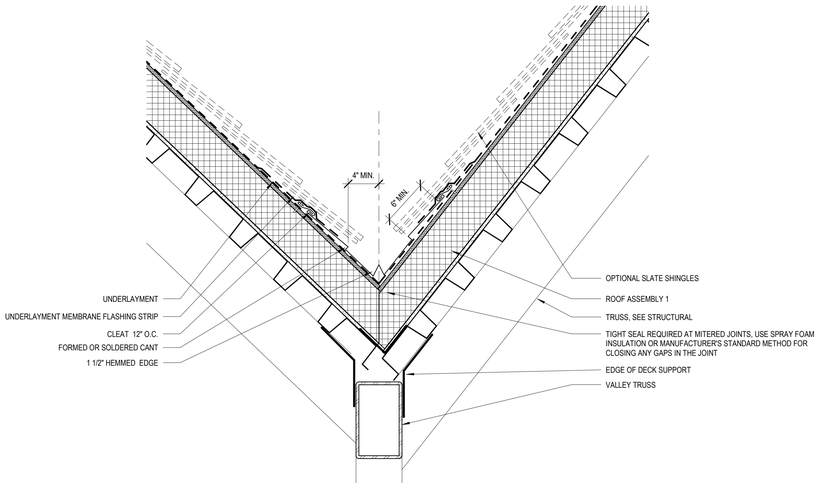
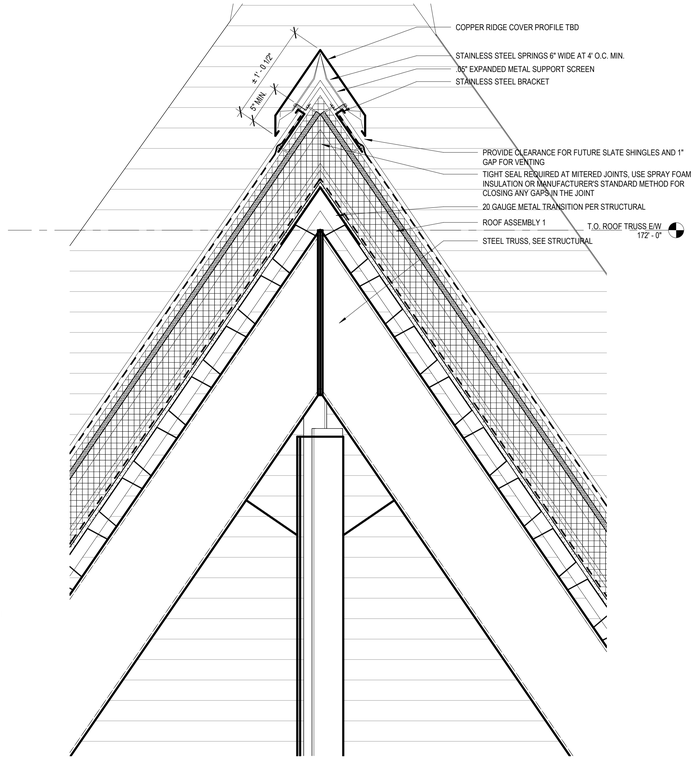
SHEET NO.
A400



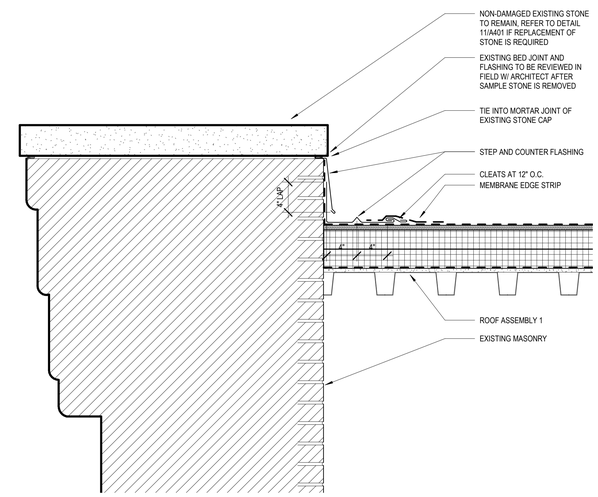
2 A401 DETAIL - FLASHING ALONG TOWER
SCALE: 1 1/2" = 1'-0"



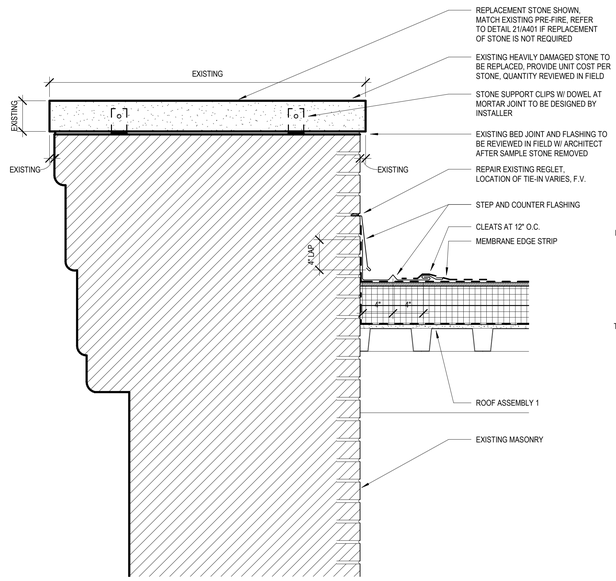
13 A401 DETAIL - ROOF VALLEY
SCALE: 1 1/2" = 1'-0"



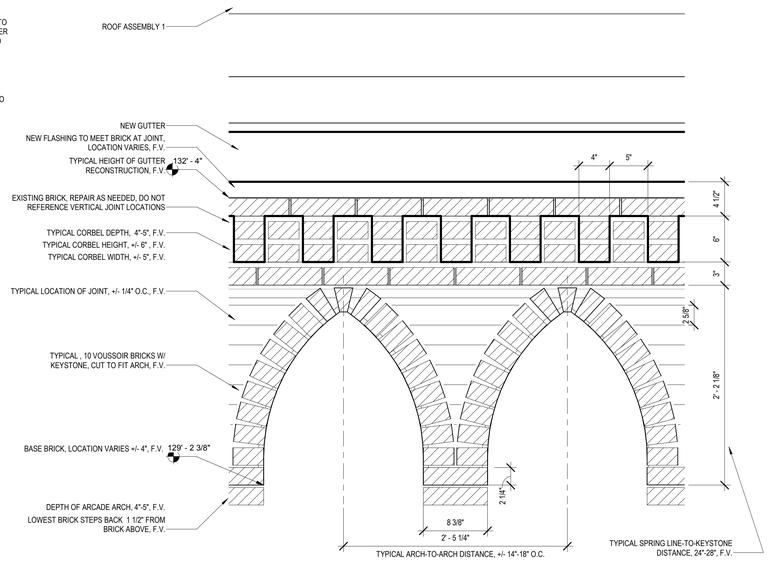
3 A401 DETAIL - RIDGE VENT
SCALE: 1 1/2" = 1'-0"



21 A401 DETAIL - ROOF CONNECTION TO GABLE - TYPICAL - NORTH, SOUTH, EAST
SCALE: 1 1/2" = 1'-0"



11 A401 DETAIL - GABLE STONE CAP TYP AND ROOF CONNECTION TO WEST GABLE
SCALE: 1 1/2" = 1'-0"



1 A401 DETAIL - ARCADE GOTHIC CORNICE
SCALE: 1 1/2" = 1'-0"

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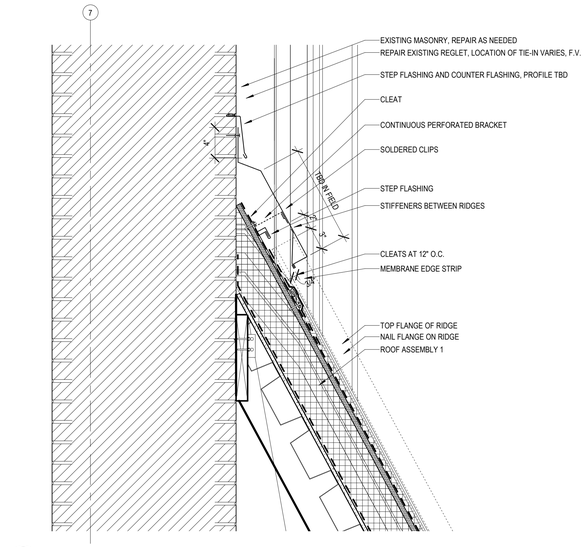
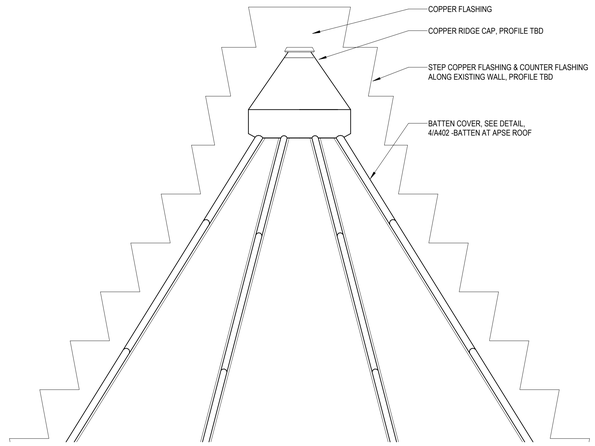
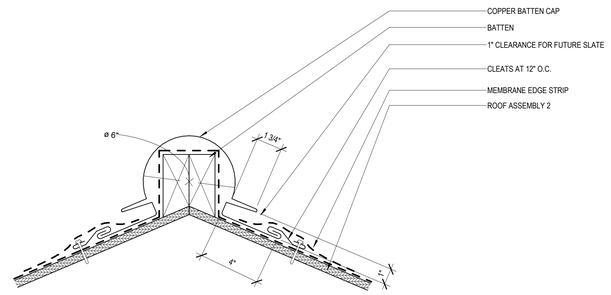


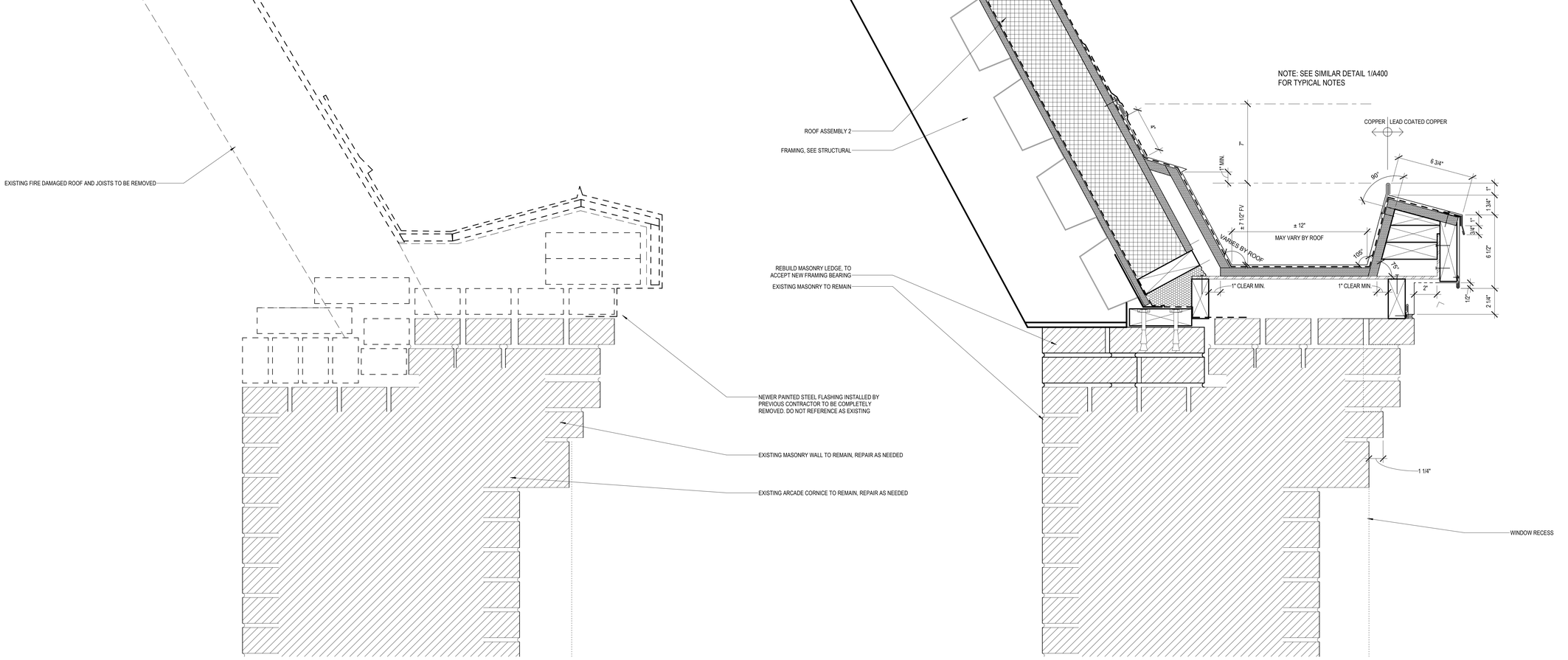
24 A402 DETAIL - ROOF CONNECTION TO GABLE - EAST
SCALE: 1 1/2" = 1'-0"



14 A402 DETAIL - BATTEN AND RIDGE AT APSE
SCALE: NOT TO SCALE



4 A402 DETAIL - RIDGE BATTEN CAP AT APSE ROOF
SCALE: 3" = 1'-0"



1 A402 DETAIL - T/O WALL AND GUTTER - APSE
SCALE: 3" = 1'-0"

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SHEET NO.
A402

GENERAL NOTES:

1. ALL MATERIALS, CONSTRUCTION, AND DETAILS SHALL CONFORM WITH THE FOLLOWING:
   PLANS AND SPECIFICATIONS
   CODE AS SPECIFIED IN DESIGN DATA
   OSHA REGULATIONS
2. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE FAMILIAR WITH THE ENTIRE SET OF CONSTRUCTION DOCUMENTS (ARCHITECTURAL, CIVIL, ELECTRICAL, PLUMBING, STRUCTURAL, ETC.) IN ORDER TO PROVIDE ALL CONSTRUCTION AND MATERIALS FOR THIS PROJECT.
3. THE CONTRACTOR SHALL REFER TO OTHER DRAWINGS CONTAINED IN THE CONSTRUCTION DOCUMENTS FOR ADDITIONAL SPECIFIED MEMBERS, DIMENSIONS, ELEVATIONS, DETAILS, OPENINGS, INSERTS, SLEEVES, DEPRESSIONS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS, REQUIRED TO CONSTRUCT THIS PROJECT.
4. DETAILS SHOWN ON STRUCTURAL DRAWINGS SHALL BE APPLICABLE TO ALL PORTIONS OF THE CONTRACT DOCUMENTS UNLESS NOTED OTHERWISE.
5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
6. ALL LOADS AND REACTIONS SHOWN ON THE PLANS ARE SERVICE LOADS, UNLESS NOTED OTHERWISE.
7. DO NOT SCALE PLANS.
8. IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
9. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND CONSTRUCTION SEQUENCE IN ORDER TO ENSURE THE SAFETY OF THE BUILDING AND WORKMEN DURING CONSTRUCTION (MEANS AND METHODS OF CONSTRUCTION). THIS INCLUDES, BUT IS NOT LIMITED TO: SHORING, UNDERPINNING, TEMPORARY BRACING, ETC.
10. CONSTRUCTION DOCUMENTS SHOW DIMENSIONS AND ELEVATIONS TO SIGNIFICANT WORKING POINTS (COLUMN CENTERLINES, OUTSIDE FACE OF WALLS, TOP OF FRAMING MEMBERS, ETC.) MATERIAL SUPPLIERS AND DESIGNERS ARE RESPONSIBLE FOR ALL OTHER INFORMATION IN ORDER TO DETAIL/FABRICATE THEIR WORK. CONTACT THE ARCHITECT WITH ANY DISCREPANCIES.
11. IN THE EVENT OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PLANS CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL BRING THE DISCREPANCY TO THE ARCHITECTS ATTENTION IMMEDIATELY, IN WRITING.
12. NO PROVISIONS HAVE BEEN MADE IN THE DESIGN OF THIS STRUCTURE FOR FUTURE EXPANSION, UNLESS SPECIFICALLY NOTED ON PLAN.

EXISTING CONSTRUCTION/CONDITIONS:

1. ALL EXISTING FRAMING SHOWN ON THESE DRAWINGS IS BASED ON AVAILABLE DOCUMENTATION AND FIELD OBSERVATION TO DATE. CONTRACTOR SHALL FIELD VERIFY ALL SIZES, DIMENSIONS, ELEVATIONS, AND CONFIGURATIONS OF EXISTING STRUCTURAL ELEMENTS (COLUMNS, BEAMS, WALLS, ETC.) AS NECESSARY TO PROPERLY INSTALL ALL NEW STRUCTURAL ELEMENTS AS SHOWN. COORDINATE DIFFERENCES BETWEEN FIELD CONDITIONS AND STRUCTURAL DRAWINGS WITH STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH WORK, AND PROCUREMENT/FABRICATION OF MATERIALS.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY CONFLICTS WITH CONSTRUCTION DOCUMENTS.
3. REMOVE AND REPLACE AND/OR MODIFY ALL EXISTING CONSTRUCTION (ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL) AS REQUIRED IN ORDER TO PLACE NEW STRUCTURAL WORK SHOWN ON THE CONSTRUCTION DOCUMENTS. DO NOT MODIFY STRUCTURAL COMPONENTS UNLESS DETAILED ON THE CONSTRUCTION DOCUMENTS.
4. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND CONSTRUCTION SEQUENCE IN ORDER TO ENSURE THE SAFETY OF THE BUILDING AND WORKMEN DURING CONSTRUCTION (MEANS AND METHODS OF CONSTRUCTION). THIS INCLUDES, BUT IS NOT LIMITED TO: SHORING, UNDERPINNING, TEMPORARY BRACING, ETC. CONTRACTOR SHALL DESIGN AND PROVIDE ALL SHORING REQUIRED TO SUPPORT EXISTING CONSTRUCTION AND NEW CONSTRUCTION AS REQUIRED TO BUILD THIS PROJECT.

STRUCTURAL STEEL:

1. DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) "STEEL CONSTRUCTION MANUAL", EDITION AS SPECIFIED BY CODE.
2. STEEL DETAILING AND CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", EDITION AS SPECIFIED BY CODE, ALLOWABLE STRESS DESIGN.
3. BEAM AND GIRDER CONNECTIONS SHALL BE DETAILED AS NOTED ON PLANS AND DETAILS.
4. STEEL FABRICATOR SHALL DESIGN CONNECTIONS NOT SPECIFICALLY DETAILED ON PLANS AS FOLLOWS:
   A. MEMBER SHEAR CONNECTIONS: UNLESS A LARGER VERTICAL END REACTION IS SHOWN ON THE DRAWINGS (i.e. R = 8/9ℓ), MINIMUM DESIGN SHEAR FORCES SHALL BE A NON-COMPOSITE SUPPORT REACTION "R" EQUAL TO ONE HALF THE TOTAL UNIFORM LOAD CAPACITY FROM THE TABLE OF UNIFORM LOAD CONSTANTS IN THE AISC MANUAL PART 2 FOR THE GIVEN SHAPE, SPAN, AND GRADE OF STEEL.
   B. MEMBERS REQUIRING END MOMENT CONNECTIONS SHALL MEET THE REQUIREMENTS OF TYPE 1 "RIGID FRAME" CONSTRUCTION INCLUDING FRICTION BOLTS IF UTILIZED. ALL OTHER MEMBERS SHALL FOLLOW THE REQUIREMENTS OF TYPE 2 "SIMPLE" CONSTRUCTION.
5. ALTERNATE CONNECTIONS FROM WHAT IS SPECIFIED ON THE CONSTRUCTION DOCUMENTS WILL NOT BE ACCEPTED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
6. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS HOLDING CURRENT AWS CERTIFICATES IN THE TYPES OF WELDING SPECIFIED ON THE CONSTRUCTION DOCUMENTS.
7. ALL STEEL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER (WITHIN MILL TOLERANCE) IN THE UPWARD VERTICAL DIRECTION.
8. PROVIDE 3/16" CAP PLATE AT THE ENDS OF ALL EXPOSED TUBE AND PIPE MEMBERS, UNLESS NOTED OTHERWISE.
9. PROVIDE STIFFENER PLATES ON BOTH SIDES OF BEAM WEBS AT ALL CONCENTRATED LOADS ABOVE AND BELOW A BEAM. UNLESS NOTED OTHERWISE, FRAME THE LARGEST BEAM OVER COLUMNS AT BEAM TO BEAM INTERSECTIONS.
10. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS INDICATED ON THE STRUCTURAL DRAWINGS, UNLESS APPROVED BY THE STRUCTURAL ENGINEER. UNLESS NOTED OTHERWISE, FRAME THE LARGEST BEAM OVER COLUMNS AT BEAM TO BEAM INTERSECTIONS.
11. CONTRACTOR SHALL ELECTRONICALLY SUBMIT STEEL SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING TO THE ARCHITECT.
12. STAIRS, HANDRAILS, AND GUARDRAILS SHALL BE DELEGATED DESIGN BY THE STEEL SUPPLIER. CONNECTIONS INTO SURROUNDING STRUCTURE SHALL BE APPROVED BY STRUCTURAL ENGINEER. CALCULATIONS OF ALL STAIR COMPONENTS MUST BE SUPPLIED WITH STAIR SHOP DRAWINGS AND STAMPED BY THE PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE, IN THE STATE IN WHICH THE PROJECT IS LOCATED.
13. CONTRACTOR SHALL DETERMINE, FURNISH AND INSTALL ANY TEMPORARY BRACING OR GUYS REQUIRED TO ERECT STEEL MEMBERS. TEMPORARY BRACING SHALL BE LEFT IN PLACE UNTIL THE PERMANENT STRUCTURE IS IN PLACE AND SECURE. REFER TO PLAN NOTES FOR DESCRIPTION OF LATERAL SYSTEM.
14. STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.
15. ANY HOLES, CUTS, OR COPING FIELD CUT INTO STEEL MUST BE VERIFIED WITH THE STRUCTURAL ENGINEER PRIOR TO WORK. CONTRACTOR SHALL COORDINATE ALL HOLES REQUIRED BY OTHERS WITH THE STRUCTURAL ENGINEER.
16. THE STEEL SUPPLIER SHALL COORDINATE HIS WORK WITH OTHER DELEGATED DESIGN COMPONENTS (i.e. STEEL JOISTS, PRECAST CONCRETE, ETC.).

METAL DECK:

1. DECK, ACCESSORIES, AND ATTACHMENTS SHALL CONFORM WITH THE CURRENT EDITION OF "STEEL DECK INSTITUTE SPECIFICATIONS".
2. PROVIDE SUPPORT AT COLUMNS AS REQUIRED FOR DECK SUPPORT. PROVIDE L2x2x3/16 MINIMUM.
3. AT OPENINGS IN DECK LESS THAN 12"x12", PROVIDE A 16 GAUGE COVER PLATE FASTENED TO DECK WITH #12 TEK SCREWS.
4. AT CHANGE IN DECK DIRECTION, PROVIDE A 20 GAUGE x 9" WIDE CONTINUOUS PLATE. PROVIDE SAME PLATE AT ALL RIDGES, VALLEYS, AND HIPS BENT TO MATCH PROFILE OF ROOF.

BUILDING DESIGN LOADS/CRITERIA

ROOF SNOW LOADS & DESIGN DATA:	
.....DESIGN ROOF SNOW LOAD	20 psf (BALANCED SNOW LOAD)
.....FLAT ROOF SNOW LOAD (Pf) = (0.7*Ce*Ct*Is*Pg)	5.5 psf
.....SNOW EXPOSURE FACTOR (Ce)	1.0
.....SNOW LOAD IMPORTANCE FACTOR (Is)	1.0
.....ROOF THERMAL FACTOR (Ct)	1.0
.....GROUND SNOW (Pg)	30 psf
.....RAIN ON SNOW SURCHARGE	0
.....SLOPED ROOF FACTOR (Cs)	0.25
WIND DESIGN DATA:	
.....WIND IMPORTANCE FACTOR (Iw)	1.0 MPH
.....NOMINAL WIND SPEED	90 MPH
.....WIND DIRECTIONALITY FACTOR (Kd)	0.85
.....MEAN ROOF HEIGHT	53 FT
.....WIND EXPOSURE CATEGORY	B
.....WIND EXPOSURE CLASSIFICATION	ENCLOSED
.....INTERNAL PRESSURE COEFFICIENT	+/-0.18
.....BUILDING LENGTH (L)	155 FT
.....LEAST WIDTH (B)	57 FT
.....VELOCITY PRESSURE EXPOSURE COEFFICIENT Kh (CASE 1)	0.89
.....VELOCITY PRESSURE EXPOSURE COEFFICIENT Kh (CASE 2)	0.89
.....TOPOGRAPHIC FACTOR (Kzt)	1.0
.....EDGE STRIP (a)	6 FT
.....END ZONE (2a)	12 FT
.....DESIGN PROCEDURE	METHOD 1 (SIMPLIFIED PROCEDURE)

TRUSS MEMBER SCHEDULE

MARK	
STRUCTURAL STEEL:	
.....ROLLED WIDE FLANGE SHAPES, ASTM A992 GRADE 50	Fy = 50,000 PSI
.....CHANNELS, ANGLES, AND S SHAPES, ASTM A36	Fy = 36,000 PSI
.....PLATE AND BAR, ASTM A36	Fy = 36,000 PSI
.....TUBE SHAPES, ASTM A500 GRADE B	Fy = 46,000 PSI
.....PIPE ASTM A53, TYPE E or S, GRADE B	Fy = 35,000 PSI
.....ALL OTHER ROLLED SHAPES, ASTM A36	Fy = 36,000 PSI
STRUCTURAL BOLTS:	
.....HIGH STRENGTH BOLTS, NUTS, & WASHERS	ASTM A325
.....ZINC-COATED HIGH STRENGTH BOLTS, NUTS, & WASHERS	ASTM A325
.....STAINLESS STEEL BOLTS, NUTS, & WASHERS	ASTM F593
.....SHEAR CONNECTORS (GRADES 1015 THRU 1020)	ASTM A108
.....THREADED RODS	ASTM A36
.....CLEVIS & TURNBUCKLES (GRADE 1035)	ASTM A108
.....EYE BOLTS & NUTS (GRADE 1030)	ASTM A108
.....ANCHOR BOLTS (GRADE 36)	ASTM F1554
WELDED CONNECTIONS:	
.....WELDING ELECTRODES	E70XX
MASONRY:	f'm = 2,000 PSI
MASONRY MORTAR:	
.....TYPE "M" MORTAR BELOW GRADE	
.....TYPE "M" or "S" ABOVE GRADE	
GROUT BELOW BASE PLATES & BEARING PLATES:	
.....NONMETALLIC, SHRINKAGE-RESISTANT	ASTM C1107

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ARCHITECTURE | DESIGN | PLANNING
322 East Michigan Street
Milwaukee, WI 53202
414.271.8899
office@uihlein-wilson.com
www.uihlein-wilson.com

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www.pierceengineers.com
PE PROJECT: 18363

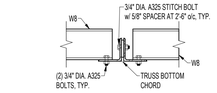
PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
RESTORATION

SHEET
GENERAL NOTES & DESIGN CRITERIA

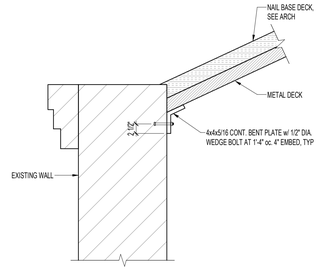
DATE
09/21/2018

PROJECT NO.
18-122

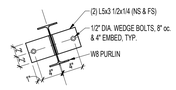
SHEET NO.
S001



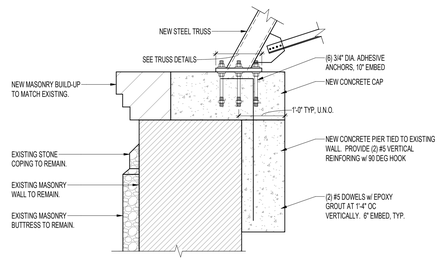
6 S200 CEILING BEAM/JOIST BEARING DETAIL



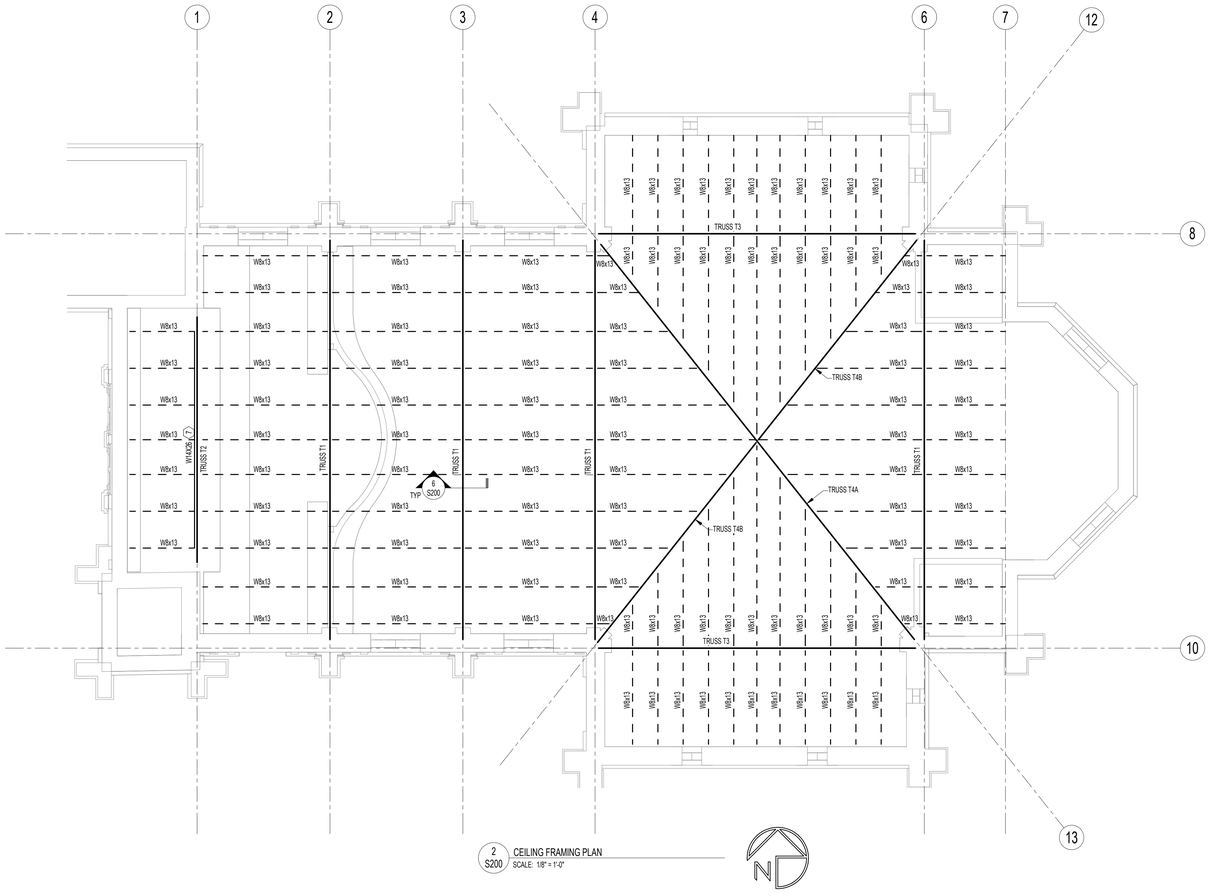
5 S200 DECK BEARING DETAIL



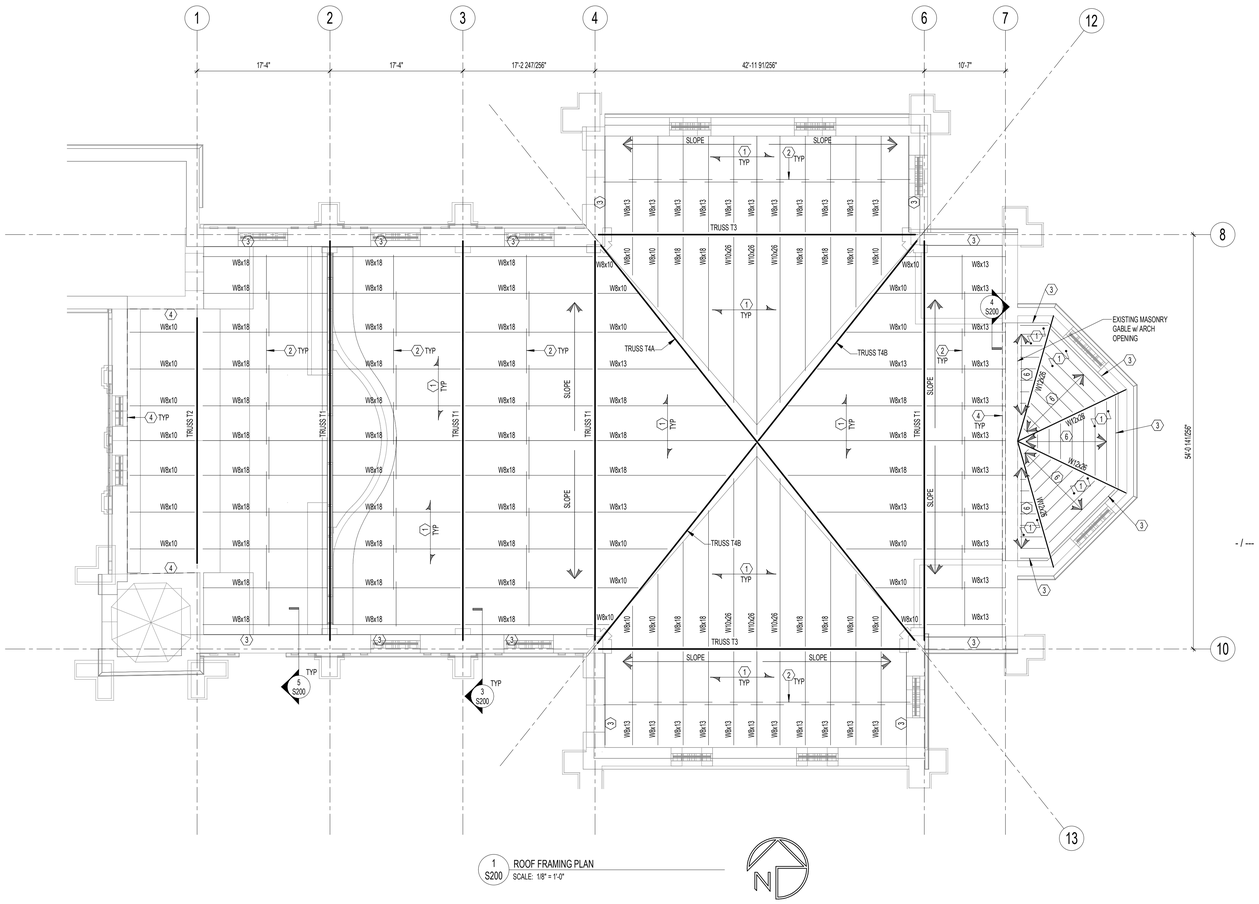
4 S200 PURLIN END CONNECTION DETAIL



3 S200 TRUSS BASE CONNECTION DETAIL



2 S200 CEILING FRAMING PLAN
SCALE: 1/8" = 1'-0"



1 S200 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

STEEL FRAMING PLAN NOTES:

PLAN NOTES APPLY TO ALL STEEL ROOF FRAMING PLANS.
ALL NOTES DO NOT NECESSARILY APPLY TO ALL SHEETS.

1. SEE ARCHITECTURAL DRAWINGS FOR NEW ROOFING COMPOSITION & DETAILS.
2. REFER TO SHEETS S400, S401, S402 & S403 FOR TRUSS PROFILES, MEMBER SIZES & CONNECTION DETAILS.
3. AFTER INSTALLATION OF NEW STEEL TRUSSES AND ROOF DECKING, EXISTING TEMPORARY STEEL WALL BRACING CAN BE SAFELY REMOVED.
4. PLUG ALL ANCHOR HOLES AFTER REMOVAL OF TEMPORARY WALL BRACING WITH COMPATIBLE EPOXY.

STEEL FRAMING PLAN KEYED NOTES:

KEYED NOTES APPLY TO ALL STEEL ROOF FRAMING PLANS.
ALL NOTES DO NOT NECESSARILY APPEAR ON ALL SHEETS.

1. 3N x 22 GA. GALV. METAL DECK, 3 SPAN (MIN.) CONDITION. USE 5/8" PUDDLE WELD IN 24/4 PATTERN AND (3)#10 TEK SCREWS SIDELAP FASTENERS PER SPAN.
2. 3/4" DIA. SAG ROD AT MID-SPAN.
3. CONT. DOWNTURNED DECK BEARING BENT PLATE (4x4x5/16) WITH 1/2" DIA. WEDGE BOLT AT 1'-4" OC, 4" EMBED, TYP.
4. 1'-0" LONG DOWNTURNED DECK BEARING L4x4x5/16 WITH (2)1/2" DIA. WEDGE BOLTS, 4" EMBED, TYP.
5. ROOF SHEATHING SHALL BE 5/8" APA RATED WOOD ROOF SHEATHING (PLYWOOD OR OSB). ATTACH SHEATHING TO ROOF PURLINS w/ SIMPSON STRONG DRIVE TB 1460S AT 1'-0" o/c. PROVIDE WOOD SHEATHING CLIPS WHERE SHEATHING EDGES ABUT BETWEEN ROOF PURLINS. STAGGER ALL ROOF SHEATHING JOINTS.
6. W8X10 PURLINS.
7. WIDE FLANGE BEAM TO SPAN HORIZONTALLY BETWEEN TRUSS T2 BOTTOM CHORDS. BOTTOM OF STEEL ELEVATION TO MATCH CEILING APEX OF TRUSS T1.

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1	10/11/2018	ADDENDUM 1

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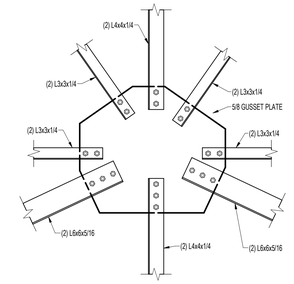
PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
RESTORATION

SHEET
ROOF
FRAMING
PLAN

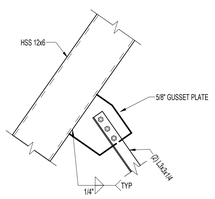
DATE
09/21/2018

PROJECT NO.
18-122

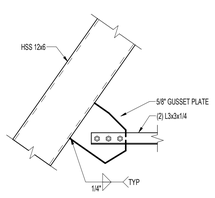
SHEET NO.
S200



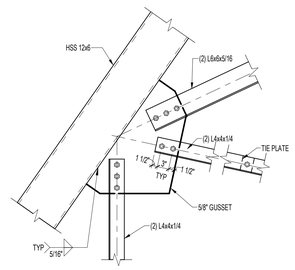
11 S400 TRUSS T1 JOINT Q



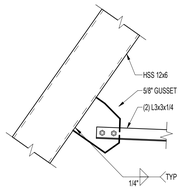
10 S400 TRUSS T1 JOINTS K & L



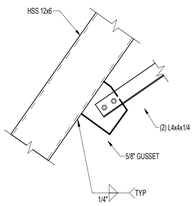
9 S400 TRUSS T1 JOINTS J & M



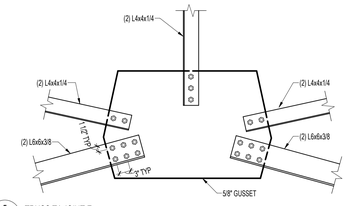
8 S400 TRUSS T1 JOINTS I & N



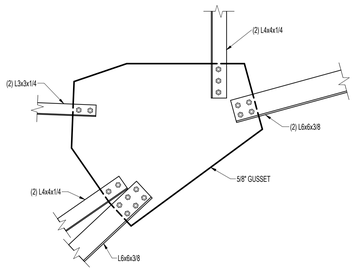
7 S400 TRUSS T1 JOINTS H & O



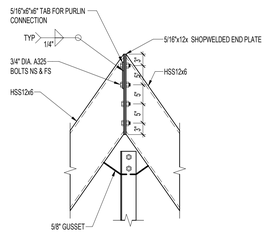
6 S400 TRUSS T1 JOINTS G & P



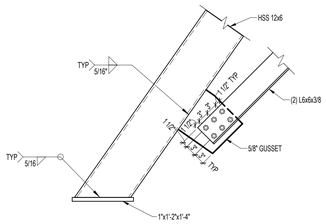
5 S400 TRUSS T1 JOINT E



4 S400 TRUSS T1 JOINTS D & F



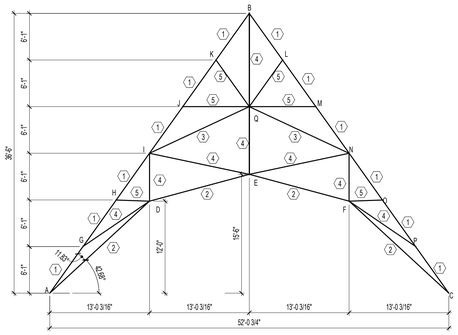
3 S400 TRUSS T1 JOINT B



2 S400 TRUSS T1 JOINTS A & C

NOTE: PROVIDE 5/8" TIE PLATE AT 4'-0" oc.
IN ALL DOUBLE ANGLE MEMBERS
WITH A 3/4" DIA. A325 BOLTS, TYP.

TRUSS MEMBER SCHEDULE	
MARK	SIZE
1	HSS 12x6x3/8
2	(2) L6x6x3/8
3	(2) L6x6x5/16
4	(2) L4x4x1/4
5	(2) L3x3x1/4



1 S400 TRUSS T1

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Milwaukee, WI 53202

414.271.8899
office@uihlein-wilson.com
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www.pierceengineers.com
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PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH
RESTORATION

SHEET
STRUCTURAL DETAILS

DATE
09/21/2018

PROJECT NO.
18-122

SHEET NO.
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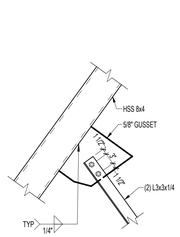
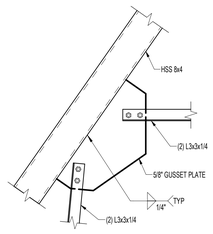
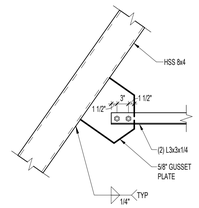
SHEET NO.
S401



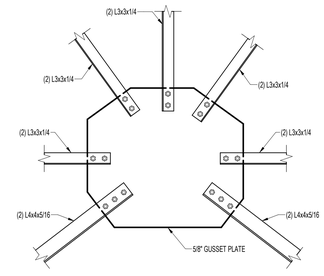
10 S401 TRUSS T2 JOINTS I & J



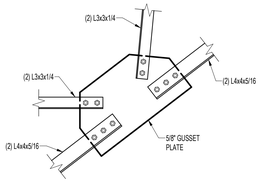
9 S401 TRUSS T2 JOINTS H & K



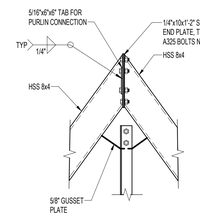
8 S401 TRUSS T2 JOINTS G & L



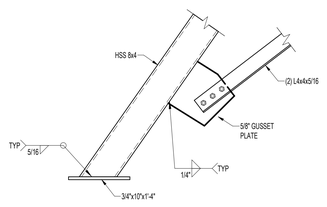
6 S401 TRUSS T2 JOINT E



5 S401 TRUSS T2 JOINTS D & F



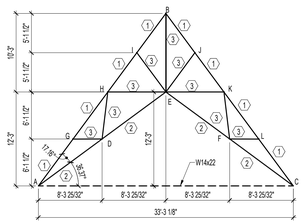
3 S401 TRUSS T2 JOINT B



2 S401 TRUSS T2 JOINTS A & C

NOTE: USE 5/8" TIE PLATE AT 4'-0" oc. IN ALL DOUBLE ANGLE MEMBERS WITH A 3/4" DIA. A325 BOLTS, TYP.

TRUSS MEMBER SCHEDULE	
MARK	SIZE
1	HSS 8x4x1/4
2	(2) L4x4x5/16
3	(2) L3x3x1/4



1 S401 TRUSS T2

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414.271.8899
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RESTORATION

SHEET
STRUCTURAL DETAILS

DATE
09/21/2018

PROJECT NO.
18-122

SHEET NO.
S402

11 S402 TRUSS T3 JOINTS M & N

10 S402 TRUSS T3 JOINTS L & O

9 S402 TRUSS T3 JOINTS K & P

8 S402 TRUSS T3 JOINTS J & Q

7 S402 TRUSS T3 JOINTS I & R

12 S402 TRUSS T3 JOINT S

6 S402 TRUSS T3 JOINT F

5 S402 TRUSS T3 JOINTS E & G

4 S402 TRUSS T3 JOINTS D & H

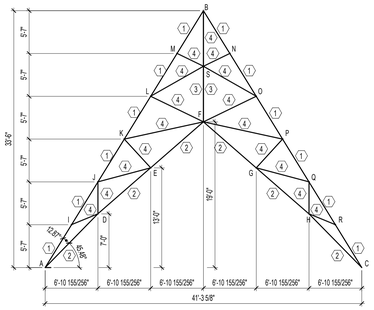
3 S402 TRUSS T3 JOINT B

2 S402 TRUSS T3 JOINTS A & C

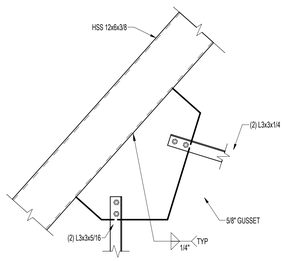
NOTE: USE 5/8" TIE PLATE AT 4'-0" oc. IN ALL DOUBLE ANGLE MEMBERS WITH A 3/4" DIA. A325 BOLTS, TYP.

TRUSS MEMBER SCHEDULE

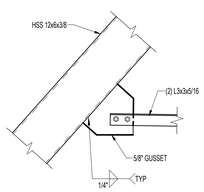
MARK	SIZE
1	HSS 10x6x5/16
2	(2) L6x6x5/16
3	(2) L3x3x5/16
4	(2) L3x3x1/4



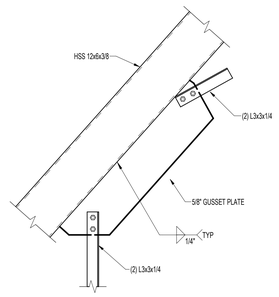
1 S402 TRUSS T3



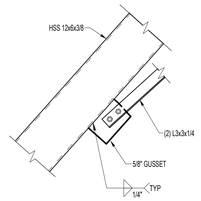
30 S403 TRUSS T4B JOINT I



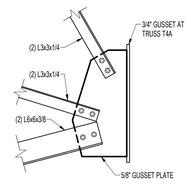
29 S403 TRUSS T4B JOINT H



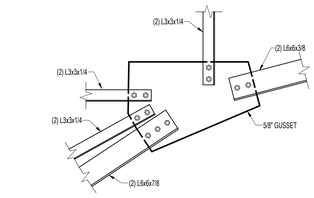
28 S403 TRUSS T4B JOINT G



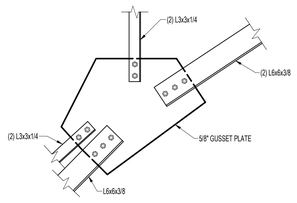
27 S403 TRUSS T4B JOINT F



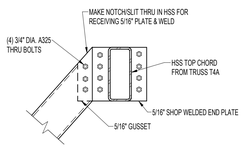
26 S403 TRUSS T4B JOINT E



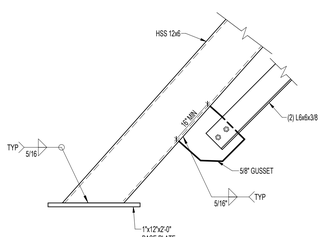
25 S403 TRUSS T4B JOINT D



24 S403 TRUSS T4B JOINT C



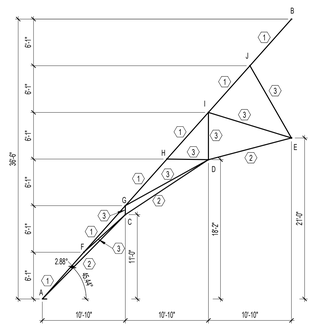
23 S403 TRUSS T4B JOINT B



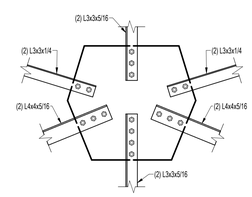
22 S403 TRUSS T4B JOINT A

NOTE: PROVIDE 5/8" TIE PLATE AT 4'-0" oc. IN ALL DOUBLE ANGLE MEMBERS WITH A 3/4" DIA. A325 BOLTS, TYP.

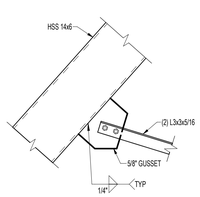
TRUSS MEMBER SCHEDULE	
MARK	SIZE
1	HSS 12x6x3/8
2	(2) L6x6x3/8
3	(2) L3x3x1/4



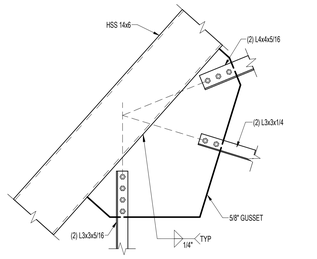
2 S403 TRUSS T4B



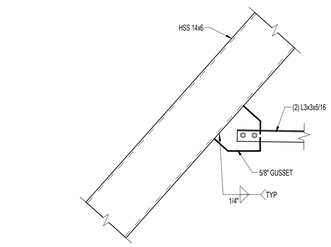
21 S403 TRUSS T4A JOINT S



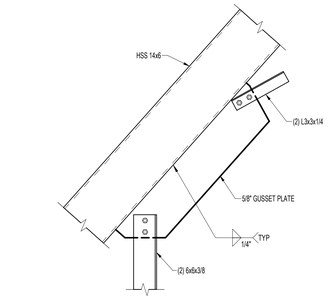
15 S403 TRUSS T4A JOINTS M & N



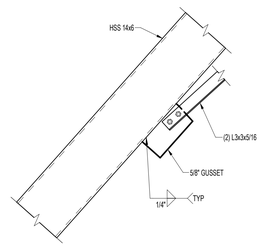
14 S403 TRUSS T4A JOINTS L & O



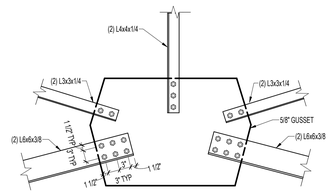
13 S403 TRUSS T4A JOINTS K & P



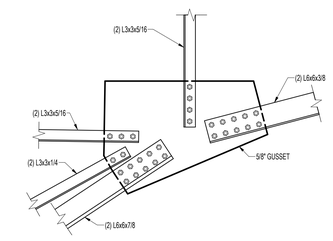
12 S403 TRUSS T4A JOINTS J & Q



11 S403 TRUSS T4A JOINTS I & R



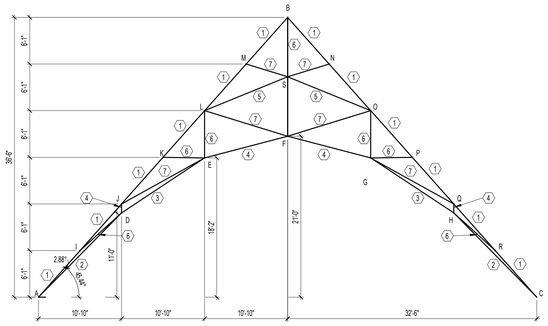
8 S403 TRUSS T4A JOINT F



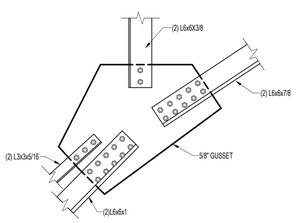
7 S403 TRUSS T4A JOINTS E & G

NOTE: PROVIDE 5/8" TIE PLATE AT 4'-0" oc. IN ALL DOUBLE ANGLE MEMBERS WITH A 3/4" DIA. A325 BOLTS, TYP.

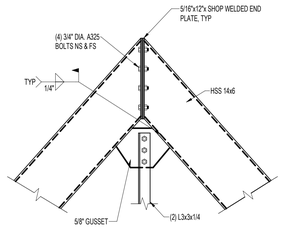
TRUSS MEMBER SCHEDULE	
MARK	SIZE
1	HSS 14x6x5/8
2	(2) L6x6x1
3	(2) L6x6x7/8
4	(2) L6x6x3/8
5	(2) L4x4x5/16
6	(2) L3x3x5/16
7	(2) L3x3x1/4



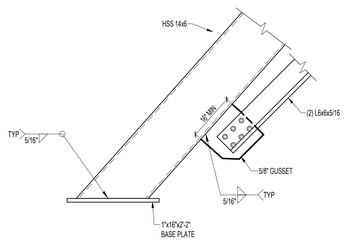
1 S403 TRUSS T4A



6 S403 TRUSS T4A JOINTS D & H



4 S403 TRUSS T4A JOINT B



3 S403 TRUSS T4A JOINTS A & C

UIHLEIN | WILSON
RAMLOW | STEIN
ARCHITECTURE | DESIGN | PLANNING

322 East Michigan Street
Milwaukee, WI 53202

414.271.8899
office@uihlein-wilson.com
www.uihlein-wilson.com

THE SIGMA GROUP
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REVISIONS

No.	Date:	Description:
1	10/11/2018	ADDENDUM 1

PRELIMINARY
NOT FOR CONSTRUCTION

PIERCE ENGINEERS, INC.
Professional Consulting Engineers
181 N. Broadway Ave | Milwaukee, WI 53202
Phone: 414.278.6060 | Fax: 414.278.6061
www.pierceengineers.com
PE PROJECT: 18363

PROJECT
TRINITY EVANGELICAL LUTHERAN CHURCH RESTORATION

SHEET
STRUCTURAL DETAILS

DATE
09/21/2018

PROJECT NO.
18-122

SHEET NO.
S403