# SUMMIT MAINTENANCE FACILITY BUILDING IMPROVEMENTS

CONTRACT # 8152

Project # 11653

# 1902 FREEPORT RD.

SHEET INDEX

NORTH BUILDING - INTERIOR JOIST

NORTH BUILDING - DEMOLITION

**SOUTH BUILDING - DEMOLITION** 

SUMMIT FACILITY SITE PLAN

**REPAIRS & DOOR SCHEDULE** 

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SOUTH BUILDING - ROOF PLAN

NORTH BUILDING - RE-POINTING,

ELEVATION, MASONRY REPAIRS

SOUTH BUILDING - DAFS REPAIR &

NORTH BUILDING - DEMOLITION ROOF PLAN

SOUTH BUILDING - DEMOLITION ROOF PLAN NORTH BUILDING - INTERIOR DEMOLITION

NORTH BUILDING - FLOOR PLAN, INTERIOR

NORTH BUILDING - EXTERIOR ELEVATIONS

NORTH BUILDING - PAINTING SCHEDULE

TITLE SHEET

**DEMOLITION** 

**ELEVATIONS** 

**ELEVATIONS** 

PLAN

TS001

AD100

AD101

AD102

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	PLAN
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# MADISON, WI 53713



Area Location Plan

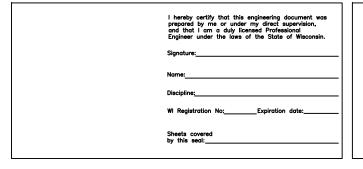
Not to scale

## STRUCTURAL ENGINEER

PAINTING SCHEDULE
ARCHITECTURAL DETAILS

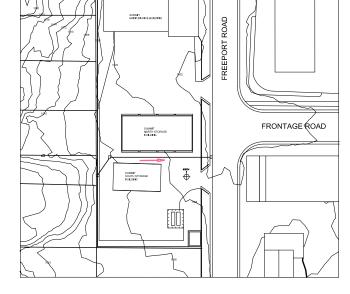
## **HVAC ENGINEER**

## ARCHITECT



I hereby certify that this engineering document was prepared by me or under my direct supervision, and that I am a duly licensed Professional Engineer under the laws of the State of Wisconsin.  Signature:
Name:
Discipline:
WI Registration No:Expiration date:
Sheets covered by this seal:

I hereby certify that this engineering document was prepared by me or under my direct supervision, and that I am a duly licensed Professional Engineer under the laws of the State of Wisconsin.  Signature:
Name:
Discipline:
WI Registration No:Expiration date:
Sheets covered by this seal:



Site Plan
Not to scale

NEE BY CO.

DRAWN BY: LAW
DATE: 1/14/2018

Facility Building Improvement

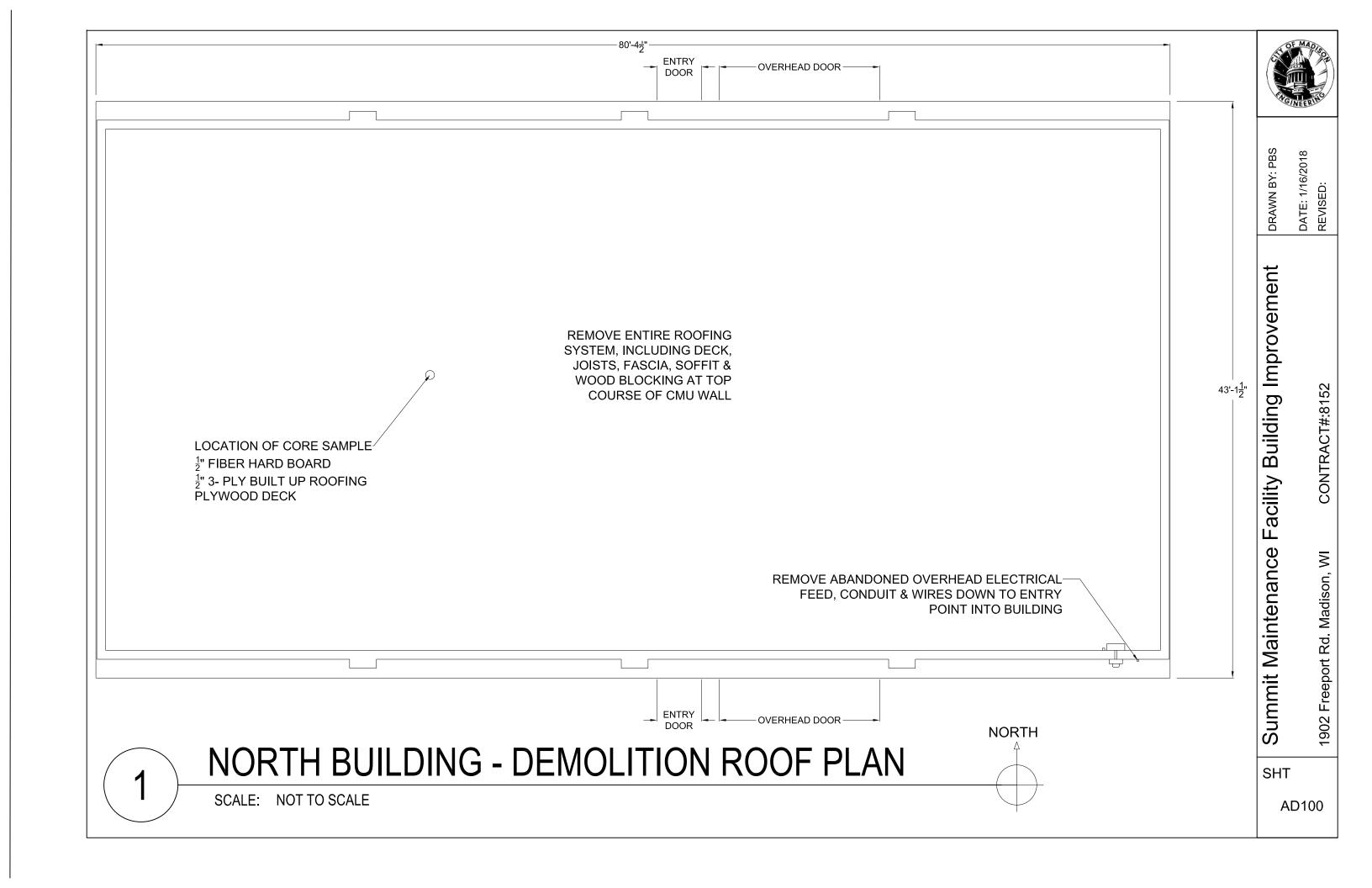
CONTRACT#:8152

902 Freeport Rd. Madison, WI

SHT

Summit Maintenance

TS001



NOTE, THE GRAY TAR FLASHING AROUND THE THREE ROOF PENETRATIONS & CAULK STRIPS ON THE SEAMS OF THE METAL ROOF HAVE NOT BEEN TESTED FOR ASBESTOS. BOTH MATERIALS APPEAR TO BE IN GOOD CONDITIONS, HOWEVER, IT MUST BE ASSUMED TO CONTAIN ASBESTOS. IF THESE MATERIALS ARE LEFT UNDISTURBED THE ASSUMED ASBESTOS MATERIAL COULD BE LEFT IN PLACE AND COVERED WITH A NEW ROOFING SYSTEM. NOTIFY THE PROJECT MANAGER IF THESE MATERIALS ARE DISTURBED.



CONTRACT#:8152

Facility Building Improvement

1902 Freeport Rd. Madison, WI

Summit Maintenance SHT

NORTH

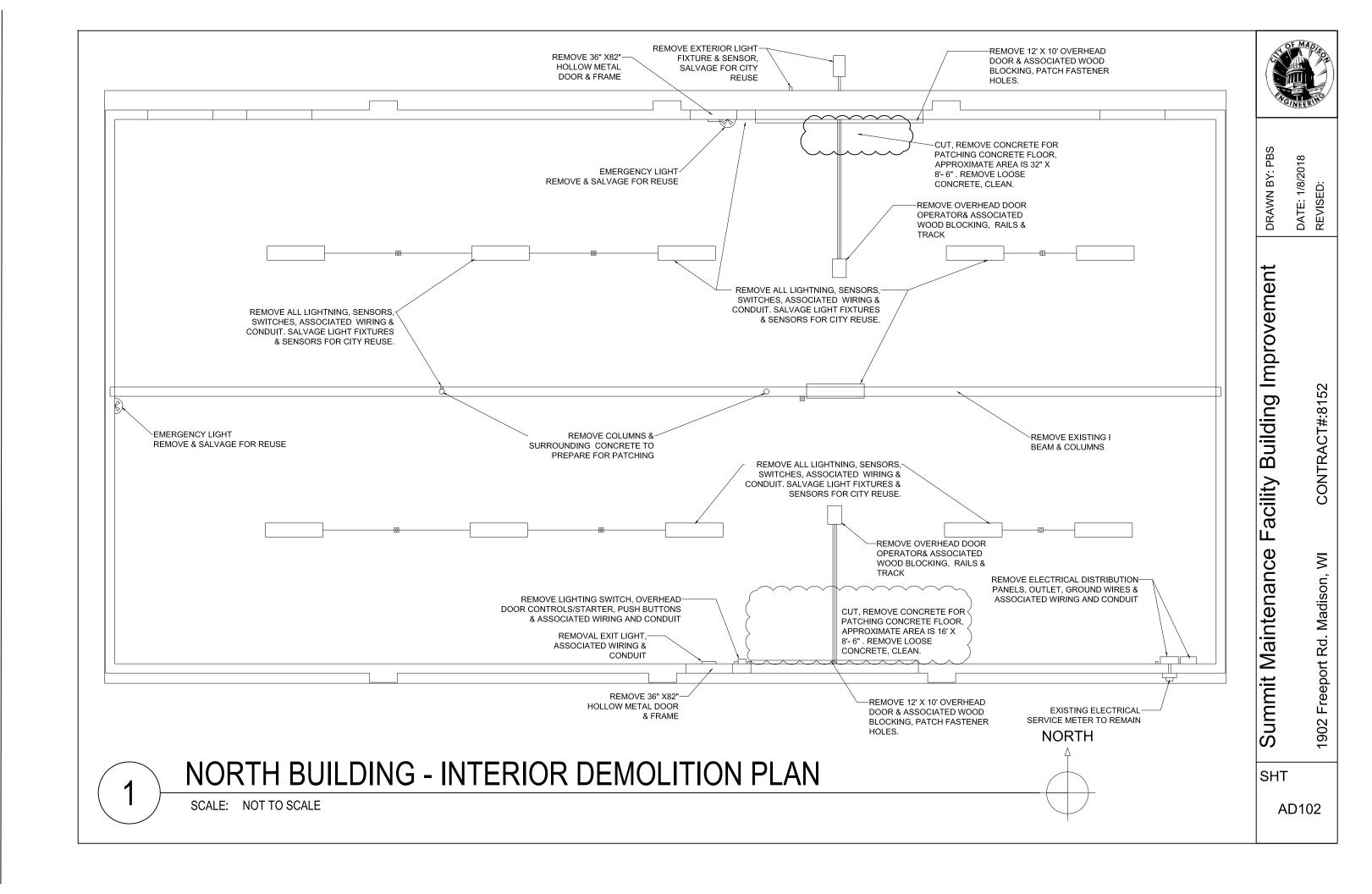
REMOVE EXISTING **RAIN GUTTER** 

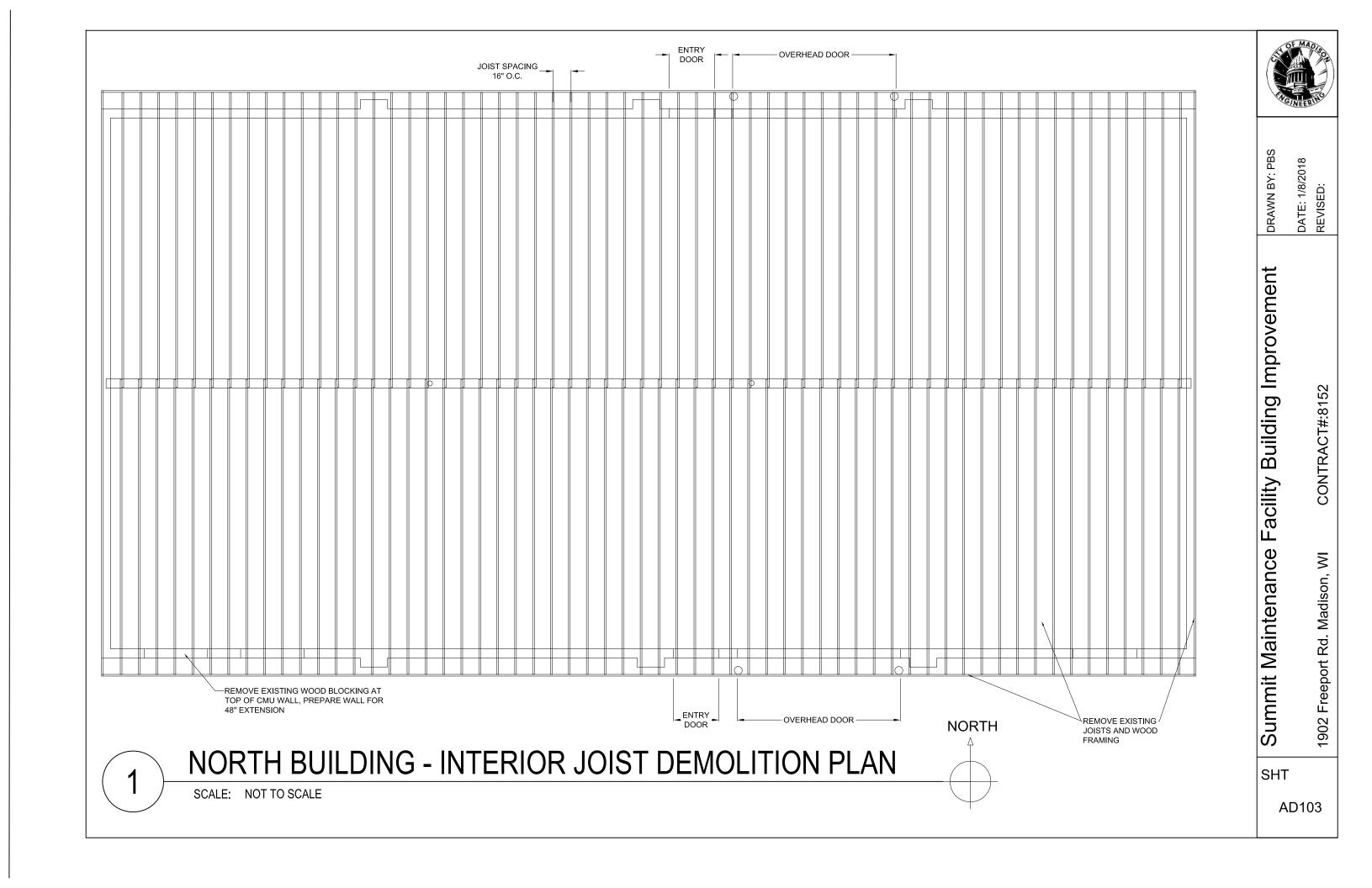
AD101



# SOUTH BUILDING - DEMOLITION ROOF PLAN

SCALE: NOT TO SCALE





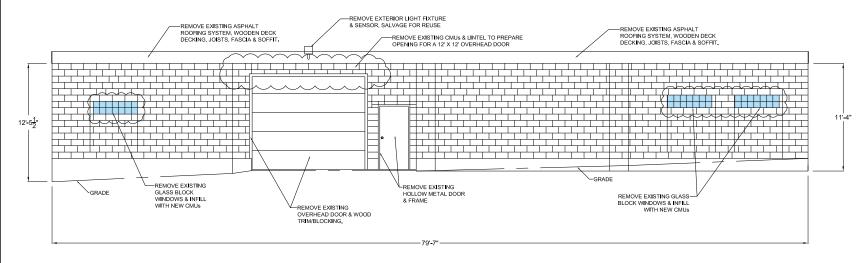
**Building Improvement** 

Facility

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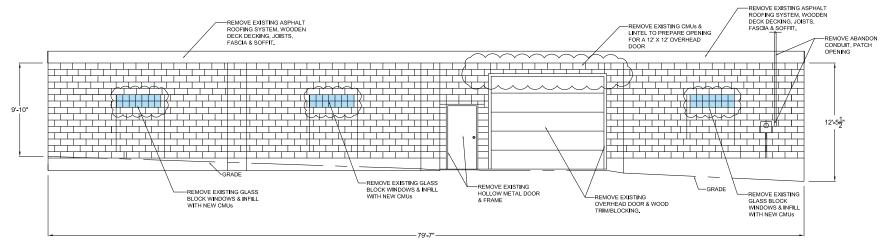
**AD104** 

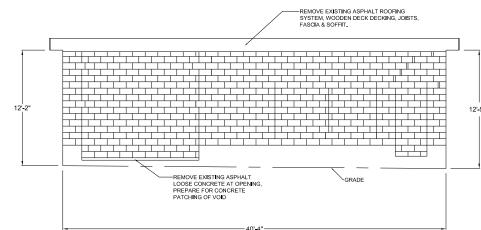


-REMOVE EXISTING ASPHALT ROOFING SYSTEM, WOODEN DECK DECKING, JOISTS, FASCIA & SOFFIT.

NORTH BUILDING - DEMO NORTH ELEVATION PLAN

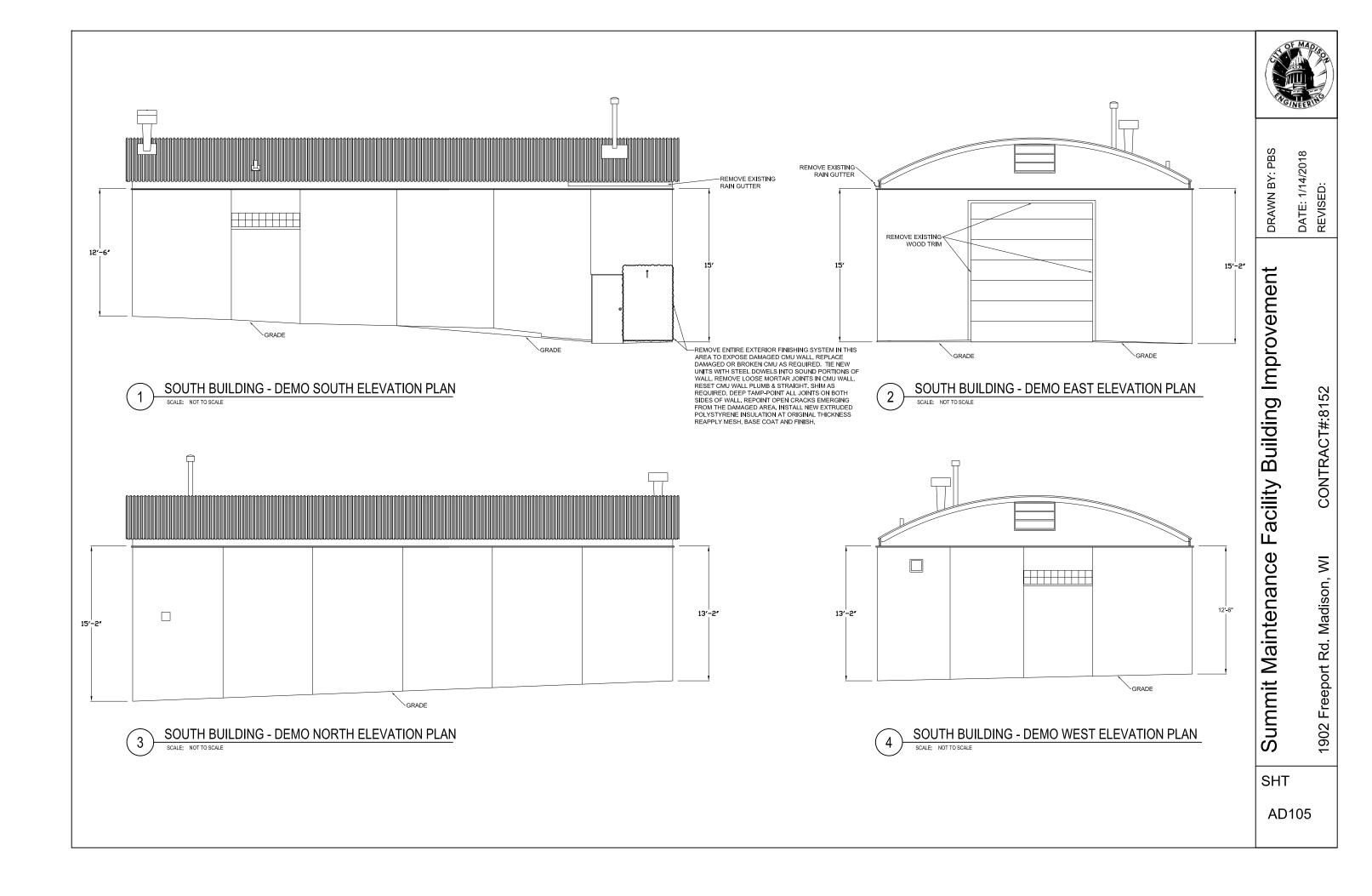
NORTH BUILDING - DEMO WEST ELEVATION PLAN

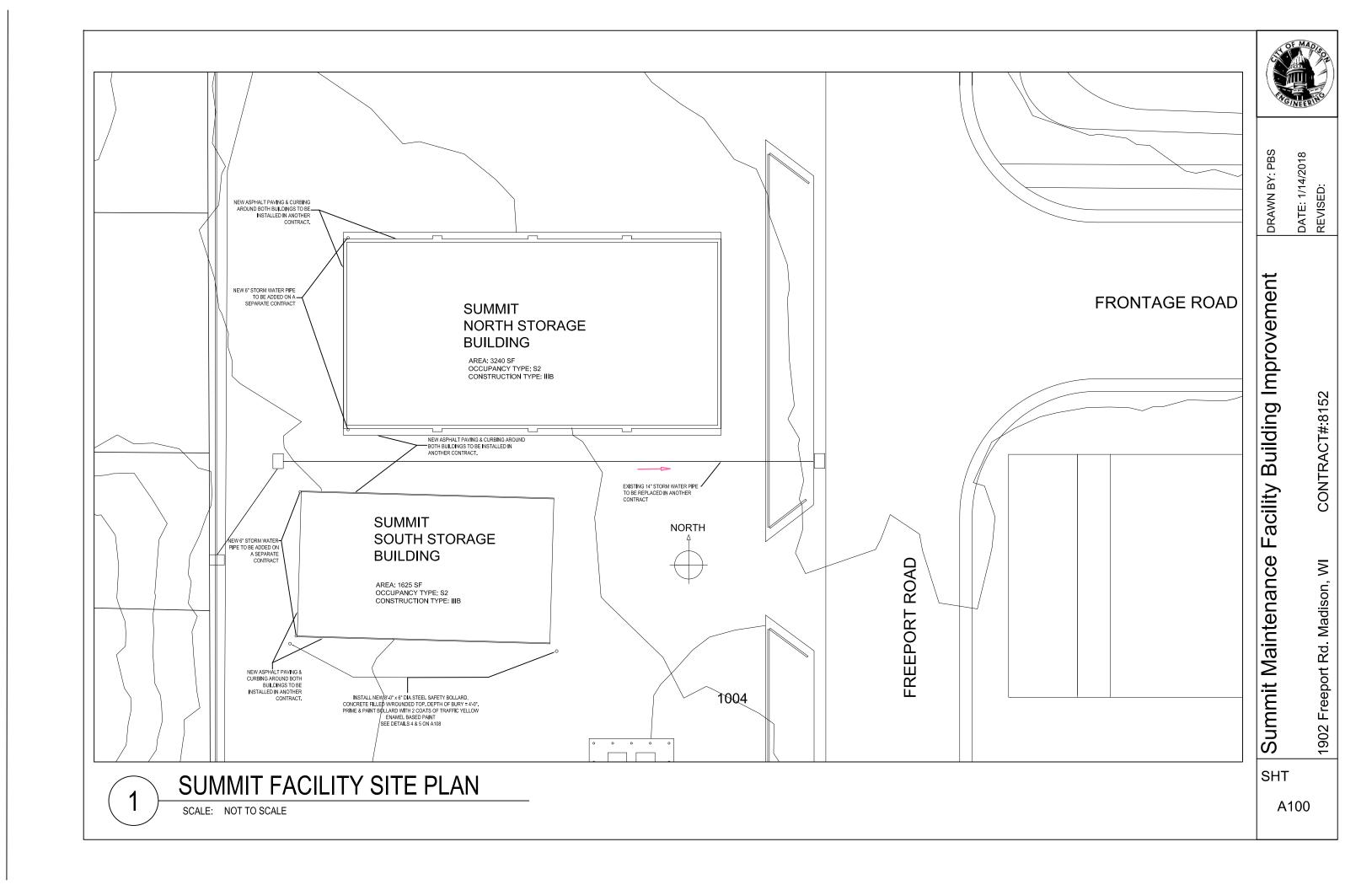


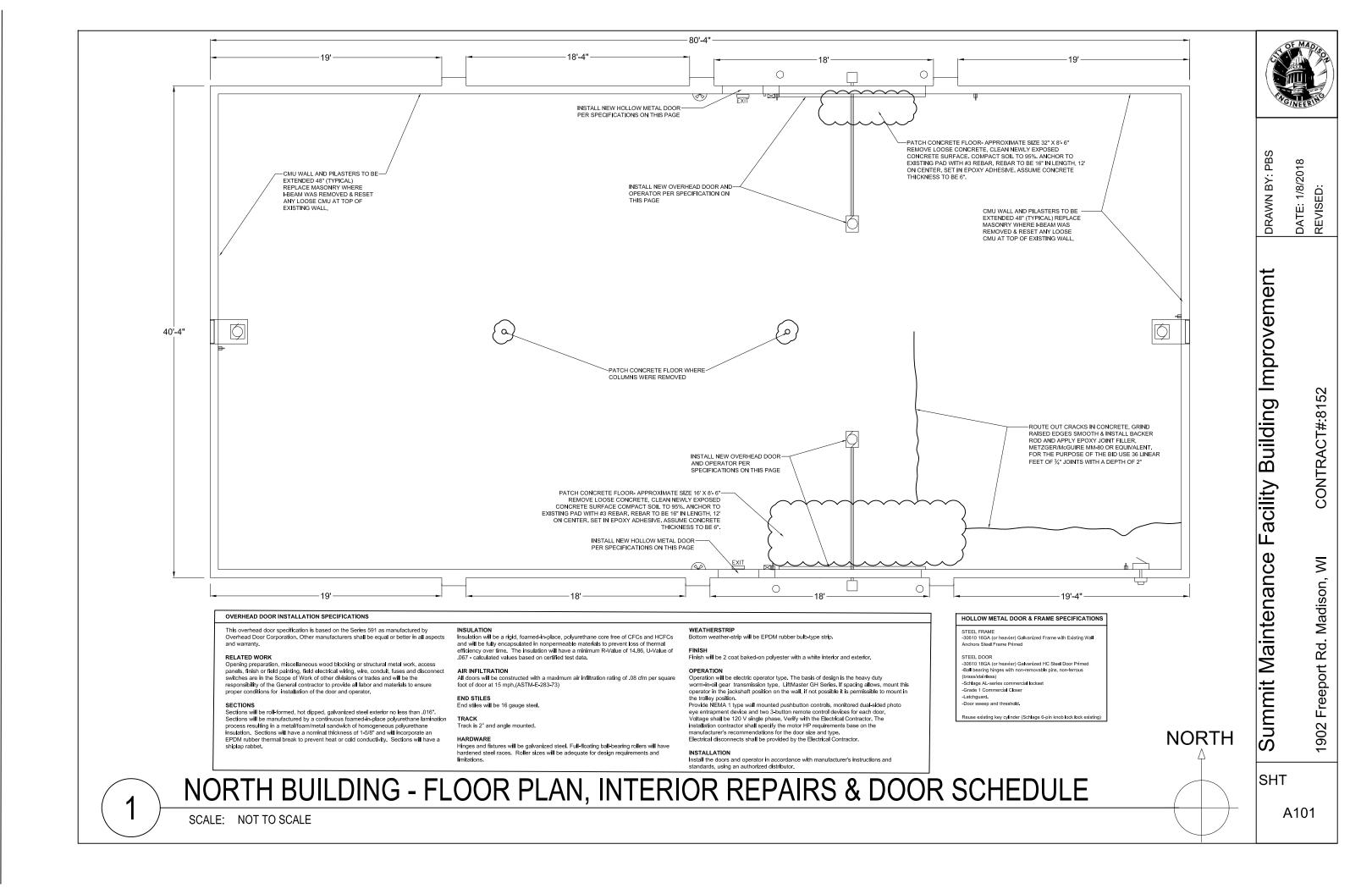


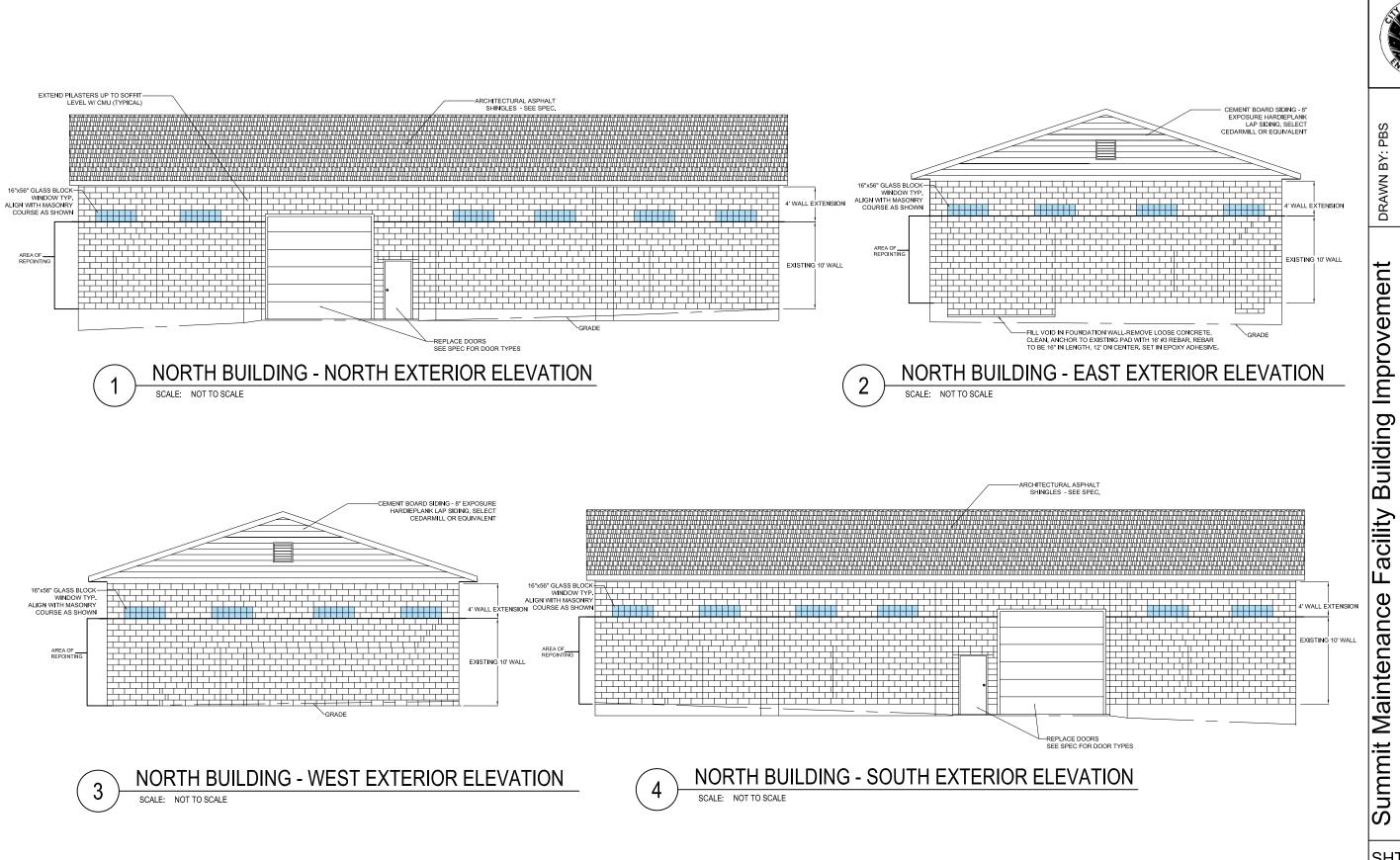
NORTH BUILDING - DEMO SOUTH ELEVATION PLAN SCALE: NOT TO SCALE

NORTH BUILDING - DEMO EAST ELEVATION PLAN









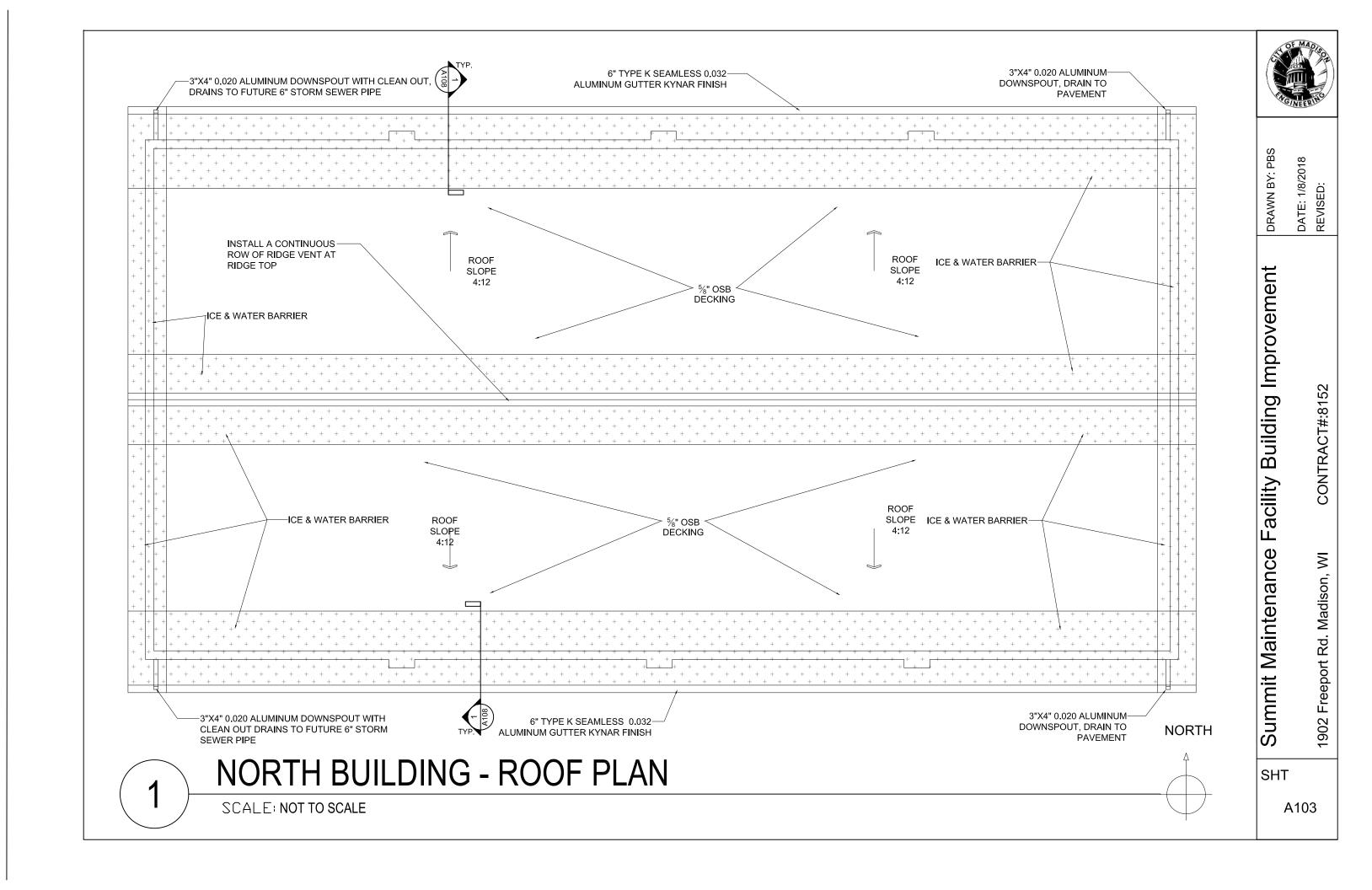
DRAWN BY: PBS DATE: 1/14/2018

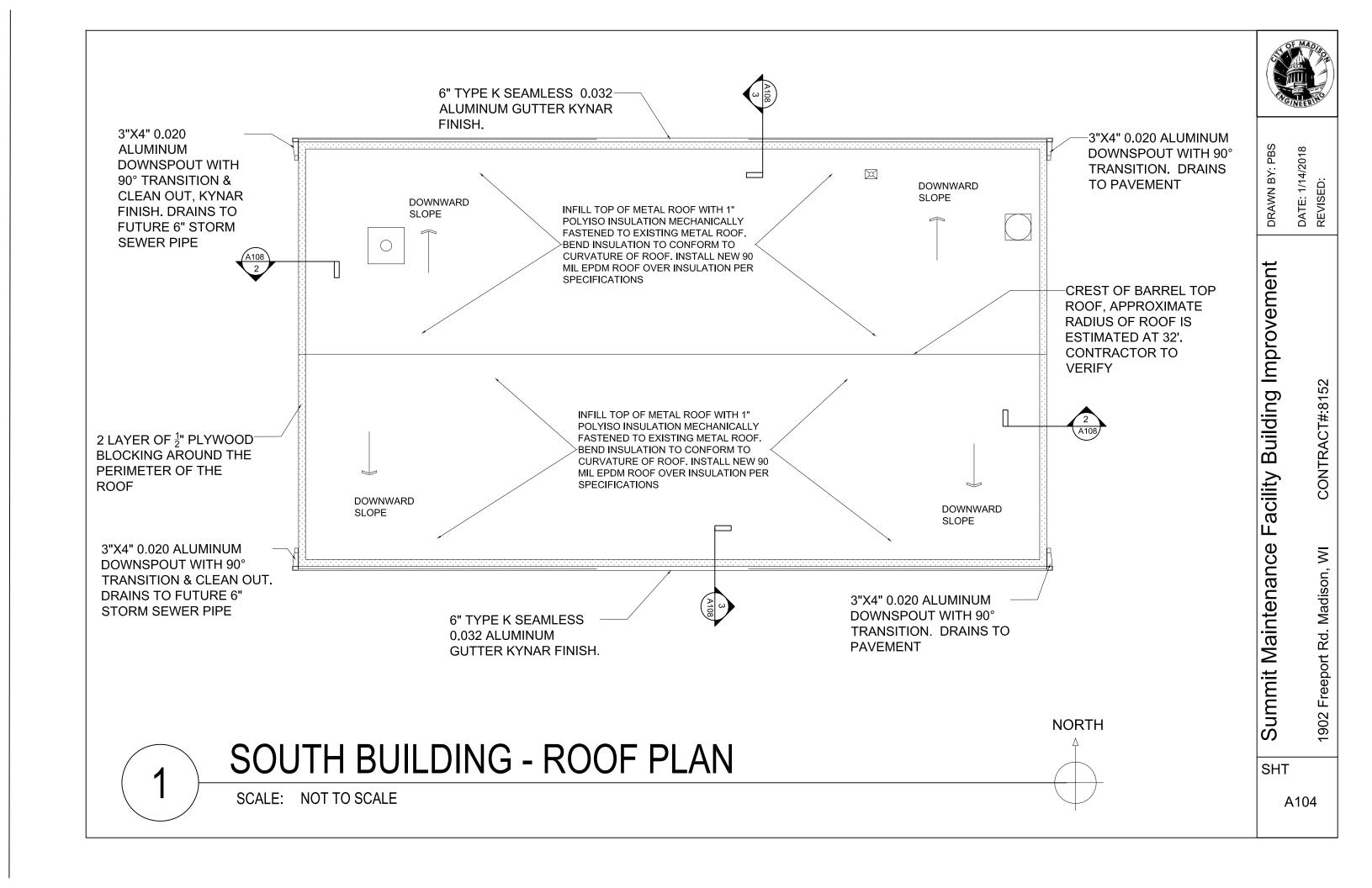
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SHT

A102





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A105

-CMULINTEL TO BE REMOVED TO PROVIDE FOR AN OPENING FOR A NEW 12X12 OVERHEAD DOOR. GRADE REMOVE EXISTING GLASS
BLOCK WINDOWS & INFILL -REMOVE EXISTING CMU ABOVE DOOR, EXPOSE THE STEEL LINTEL, REMOVE RUST, PRIME & PAINT. INSTALL YORK STAINLESS STEEL FLASH VENT WITH 24 GAUGE STAINLESS -REMOVE EXISTING GLASS BLOCK WINDOWS & INFILL WITH NEW CMUs WITH NEW CMUs STEEL DRIP EDGE, FOLDED END DAMS & TERMINATION BAR PER MANUFACTURERS INSTRUCTIONS. FLASH VENT

NORTH BUILDING - NORTH ELEVATION, REPOINTING & MASONRY REPAIRS

-PATCH HOLE IN CMU WHERE CONDUIT WAS

REMOVED. INSPECT REMAINDER OF BUILDING

AND PROVIDE MISCELLANEOUS PATCHING OF HOLES & BROKEN OR DETERIORATED SECTIONS

-FILL VOID IN FOUNDATION WALL-REMOVE LOOSE GRADE CONCRETE, CLEAN. ANCHOR TO EXISTING PAD WITH #3 REBAR. REBAR TO BE 16" IN LENGTH, 12' ON CENTER, SET IN EPOXY ADHESIVE.

NORTH BUILDING - WEST ELEVATION, REPOINTING & MASONRY REPAIRS

CMU LINTEL TO BE REMOVED TO PROVIDE FOR AN OPENING FOR A NEW 12X12 OVERHEAD DOOR. REMOVE EXISTING CMU ABOVE DOOR, EXPOSE THE STEEL -REMOVE --REMOVE EXISTING GLASS EXISTING GLASS BLOCK WINDOWS LINTEL, REMOVE RUST, PRIME & PAINT. INSTALL YORK STAINLESS STEEL FLASH VENT WITH 24 GAUGE STAINLESS REMOVE
EXISTING GLASS BLOCK WINDOWS & INFILL WITH BLOCK WINDOWS & INFILL WITH NEW CMUs STEEL DRIP EDGE, FOLDED END DAMS & TERMINATION BAR PER MANUFACTURERS INSTRUCTIONS, FLASH VENT SS WILL BE SUPPLIED BY THE CITY. & INFILL WITH NEW CMUs

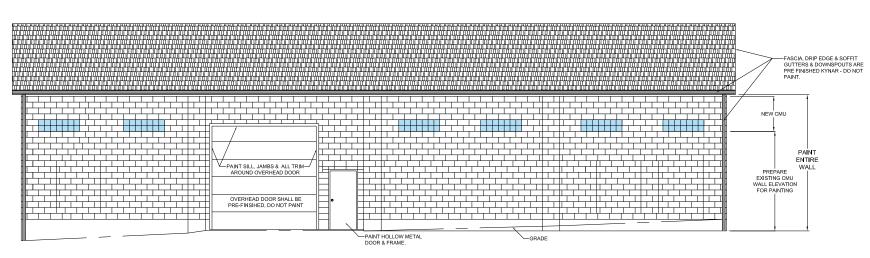
SS WILL BE SUPPLIED BY THE CITY.

NORTH BUILDING - SOUTH ELEVATION, REPOINTING & MASONRY REPAIRS

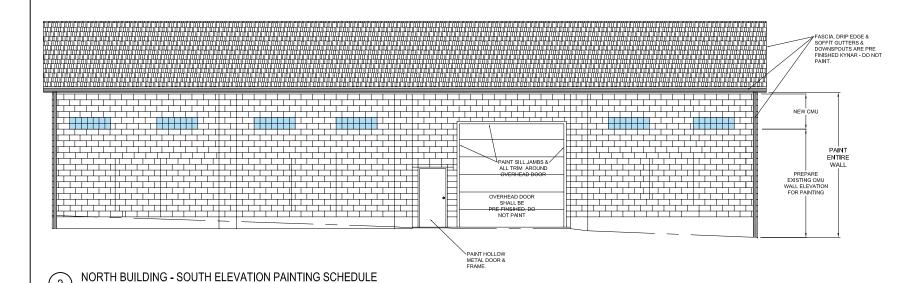
INDICATES AREA OF RE-POINTING MORTAR JOINTS. FOR THE PURPOSE OF BIDDING, INCLUDE IN THE LUMP SUM BID THESE AREAS PLUS AN ADDITIONAL

NORTH BUILDING - NORTH ELEVATION, REPOINTING & MASONRY REPAIRS

300 LINEAR FEET.







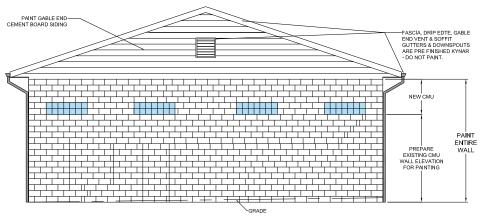
SHERWIN WILLIAMS PAINT SCHEDULE	PAINT TYPE	SURFACE TYPE/APPLICATION
PRIMER RX	Interior/exterior acrylic peel bonding primer	Primer for bare wood & spot painting previously painted wood.
PRO INDUSTRIAL, DMT ACRYLIC SEMI-GLOSS	Interior/exterior multi-purpose acrylic	Finish coat for all metal, gable ends, overhead door, bollards, metal doors & frames.
RESILIENCE EXTERIOR SATIN ACRYLIC	Exterior 100% acrylic finish	Finish coat for all exterior wood
LOXON CONDITIONER	100% Acrylic emulsion conditioner	Surface prep primer/conditioner for exterior CMU & other masonry substrate wall.
LOXON XP	Exterior high build finish coating	Finish coat for stucco & CMU walls. Apply two coats.
PRO INDUSTRIAL, MULTI-SURFACE ACRYLIC*	Interior/exterior self priming acrylic finish coating	Finish coat for interior CMU walls. Apply two coats.
SEALANT-SOUDALSEAL 50 LM	Polyester sealant	All sealant joints that will be covered by paint.
NOTE.		

NOTE,
THE CONTRACTOR HAS THE OPTION TO PROVIDE AN ALTERNATE AS LONG AS IT IS EQUIVALENT IN ALL PROPERTIES. THE SUBMITTAL MUST INCLUDE A LETTER FROM THE
MANUFACTURES STATING THAT THE COATINGS ARE EQUIVALENT

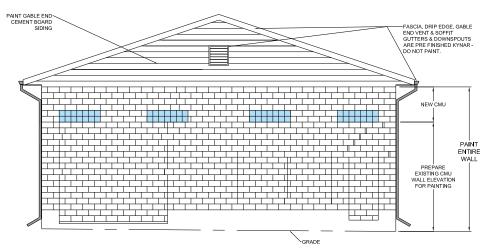
FINAL COLOR TO BE SELECTED BY THE OWNER

THE CONTRACTOR SHALL INSTALL SEALANT JOINTS AS NOTED ON THE PLAN SET. ADDITIONAL SEALANT JOINTS SHALL BE APPLIED AS NECESSARY PER STANDARD CONDITIONS AND BUILDING CONSTRUCTION PRACTICES.

INCLUDE INTERIOR PAINTING OF BUILDING IN BID



## NORTH BUILDING - WEST ELEVATION PAINTING SCHEDULE SCALE: NOTTO SCALE



## NORTH BUILDING - EAST ELEVATION PAINTING SCHEDULE SCALE: MOTTO SCALE

### EXTERIOR WALL SURFACE PREPARATION FOR PAINTING

PREPARE SUBSTRATE TO THE FOLLOWONG STANDARD; SSPC-SP 6 / NACE No. 3 Commercial Blast Cleaning When viewed without magnification, the surface shall be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products and other foreign matter of at least 66-2/3% of unit area, which shall be a square 3 in. x 3 in. (9 sq. in.). Light shadows, slight streaks, or minor discolorations caused by stains of rust, stains of mill scale, or stains of previously applied coating in less than 33-1/3% of the unit area is acceptable.

# DRAWN BY: Improvement Building Facility Maintenance

DATE: 1/8/2018

REVISED:

CONTRACT#:8152

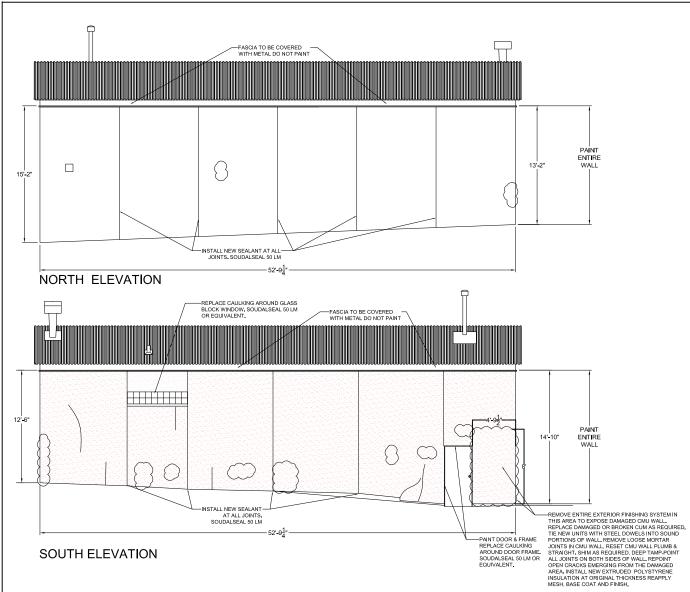
Freeport Rd. Madison,

1902

SHT

Summit

A106



SHERWIN WILLIAMS PAINT SCHEDULE	PAINT TYPE	SURFACE TYPE/APPLICATION
PRIMER RX	Interior/exterior acrylic peel bonding primer	Primer for bare wood & spot painting previously painted wood.
PRO INDUSTRIAL, DMT ACRYLIC SEMI-GLOSS	Interior/exterior multi-purpose acrylic	Finish coat for a∎ metal, gable ends, overhead door, bollards, metal doors & frames.
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SEALANT		
SOUDALSEAL 50 LM	Polyester sealant	All sealant joints that will be covered by paint.
	•	

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FINAL COLOR TO BE SELECTED BY THE OWNER

THE CONTRACTOR SHALL INSTALL SEALANT JOINTS AS NOTED ON THE PLAN SET. ADDITIONAL SEALANT JOINTS. SHALL BE APPLIED AS NECESSARY PER STANDARD CONDITIONS AND BUILDING

## REPAIR TO DIRECT APPLIED FINISHING SYSTEM( DAFS)

REPAIRS TO SECTIONS THAT WILL RECEIVE AN ENTIRE TOPCOAT (SOUTH & EAST ELEVATIONS)

CIC REPAIRREMOVE THE FINISH COAT DOWN TO THE MESH AND BASE
COAT, REMOVAL OF THE FINISH COAT SHOULD EXTEND A
MINIMUM OF 3° BEYNON THE CRACK, INSPECT THE BASE COAT
FOR ADHESION TO THE SUBSTRATE AND INSTALL FASTENERS
TO SECURE AS REQUIRED, INSTALL NEW MESH & BASE COAT
BUILD UP TO THE THICKNESS TO THE TOP OF THE
SURROUNDING FINISH COAT, APPLY THE NEW FINISH COAT
OVER THE ENTIRE WALL SECTION.

OVER THE ENTIRE WALL SECTION.

PUNCTURE OR PHYSICAL DAWAGE REPARP.

REMOVE ALL LOOSE MATERIAL AROUND THE DAMAGED AREA.

NSPECT THE BASE COAT FOR ADHESION TO THE SUBSTRATE AND

INSTALL FASTENERS TO SECURE AS REQUIRED. REMOVE THE FINISH

COAT A MINIMUM OF 3 FROM THE DAMAGED AREA NICULDING AREAS

WHERE NEW FASTENERS WERE INSTALLED, REBUILD DAMAGED AREA

OF PANEL AS NECESSARY. REPLACE ANY SECTIONS OF MISSING OR

DAMAGED FOAM INSULATION WITH EQUIVALENT MATERIAL, INSTALL

NEW MESH AND BASE COAT. BUILD UP ITE THICKNESS TO THE TOP OF

THE SURROUNDING FINISH COAT. APPLY THE NEW FINISH COAT OVER

THE ENTIRE SECTION. THE ENTIRE SECTION.

#### SPOT REPAIRS (NORTH & WEST ELEVATIONS)

CRACK REPAIR.

REMOVE THE FINSH COAT DOWN TO THE MESH & BASE COAT.

REMOVED THE FINSH COAT SHOULD EXTEND A MINIMUM OF 3°

BEYOND THE CRACK, INSPECT THE BASE COAT FOR ADHESION TO THE
SUBSTRATE & INSTALL FASTENERS TO SECURE A RECUIRED, APPLY
A NEW FINSH COAT TO THE MEPAIR AREA BEING CAREFUL TO BLEND
THE NEW FINISH TO MATCH THE EXISTING.

THE NEW FINISH TO MATCH THE EXISTING.
PUNCTURE OF PHYSICAL DAMAGE REPAIRREMOVE ALL LOOSE MATERIAL AROUND THE DAMAGED AREA. INSPECT THE BASE COAT FOR 
ADHESION TO THE SUBSTRATE AND INSTALL FASTENERS TO SECURE AS REQUIRED. REMOVE 
THE EXISTING FINISH COAT. A MINIMUM OF 3" FROM THE DAMAGED AREA INCLUDING AREAS 
WHERE NEW FASTENERS WERE INSTALLED. REPUILD DAMAGED AREA OF PARILE. AS 
NECESSARY, REPLACE ANY SECTIONS OF DAMAGED FOAM INSULATION WITH EQUIVALENT 
MATERIAL INSTALL A NEW WHICH BASE COOK BUILD. TAPER THIS BASE COAT FOTHE DOE 
OFFICE BUSINESS HEAD HE AND A THE STATE OF THE REPAIR AREA BEING 
CARFUL TO BEIND THE REV PINISH TO MATCH THE EXISTING.

NOTE: THE ABOVE PROCEDURES ARE A GENERAL OUTLINE OF THE WORK THAT IS EXPECTED. CONTRACTORS ARE REQUIRED TO FOLLOW "BEST PRACTICES" AND MANUFACTURER'S INSTRUCTIONS TO OBTAIN THE PROPER REPAIRS. USE BASE COATS AS SPECIFIED BELOW WITH THE APPROPRIATE FINISH COAT.

# ACCEPTABLE REPAIR PRODUCTS 1. DRYVIT- 100 % ACRYLIC BASE COAT NCB. http://www.dryvit.com/ 2. STO CORP-100 % ACRYLIC BASE COAT RFP. http://www.stocorp.co 3. PAREX- 100 % ACRYLIC BASE COAT 302 ABC N1. http://www.parex

## REPAIR LEGEND

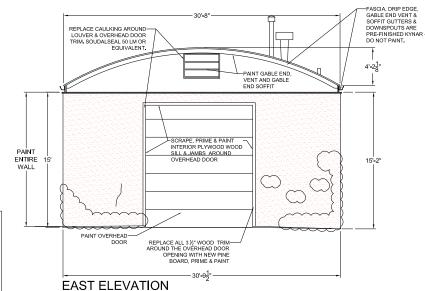


NECESSARY & PATCHED.

NOTE: THE AREAS INDICATED ABOVE ARE SPECIFIC AREAS OF REPAIR THAT WERE NOTED IN ORDER TO INFORM THE CONTRACTOR OF THE TYPE OF REPAIRS THAT ARE EXPECTED. AT THE PRE BID METRING, THE FULL ELEVATIONS OF THIS BUILDING WILL BE MADE VISIBLE, AT THIS TIME, THE CONTRACTOR SHALL INSPECT THE ELEVATIONS & INCLUDE ALL DEFECTS THAT ARE PRESENT IN THE LUMP SUM BID.

DAMAGE. THESE AREAS SHALL BE REBUILT AS

# &GLASS BLOCK WINDOW, SOUDALSEAL 50 LM OR EQUIVALENT DOWNSPOUTS ARE PRE-FINISHED KYNA DO NOT PAINT. -----ENTIRE **WEST ELEVATION**



#### EXTERIOR WALL SURFACE PREPARATION FOR PAINTING

PREPARE SUBSTRATE TO THE FOLLOWONG STANDARD; SSPC-SP 6 / NACE No. 3 Commercial Blast Cleaning When viewed without magnification, the surface shall be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products and other foreign matter of at least 66-2/3% of unit area, which shall be a square 3 in. x 3 in. (9 sq. in.). Light shadows, slight streaks, or minor discolorations caused by stains of rust, stains of mill scale, or stains of previously applied coating in less than 33-1/3% of the unit area is acceptable.



SOUTH BUILDING - DAFS REPAIR & PAINTING SCHEDULE

SCALE: NOT TO SCALE



Building acillity Щ Maintenance ummit ഗ

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Improvem

DATE

CONTRACT#:8152

Madison,

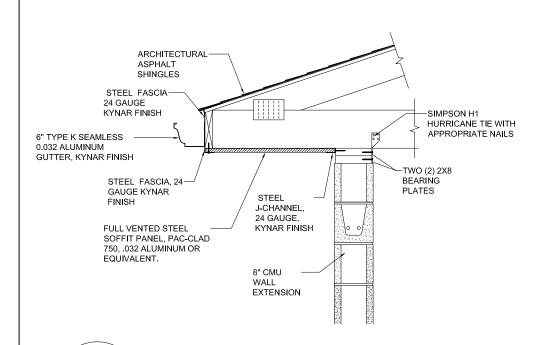
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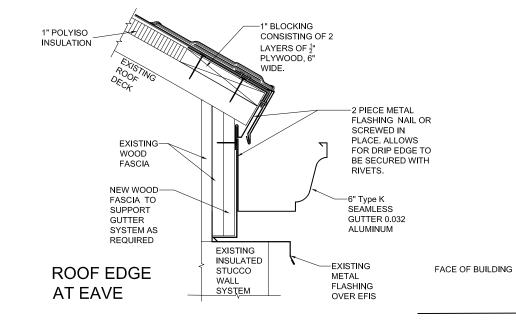
Freeport

902

SHT

A107





6" SCHEDULE 40 PIPE, FILL

WITH CONCRETE, ROUND TOP

PRIME & PAINT TRAFFIC

TEMPORARY COLD PATCH

AROUND FOOTING

EXISTING PAVEMENT

DRAWN BY: PBS

DATE: 1/15/2018

REVISED:

Improvement Building

6" SAFETY BOLLARD

LOCATE AT BUILDING CORNER.

CONTRACT#:8152

Freeport Rd. Madison,

Facility Summit Maintenance

SHT

A108

**ROOF EAVE DETAIL- NORTH BUILDING** NOT TO SCALE A108

**ROOF EAVE DETAIL-**A108 **SOUTH BUILDING** NOT TO SCALE

PITCH TOP OF CONCRETE

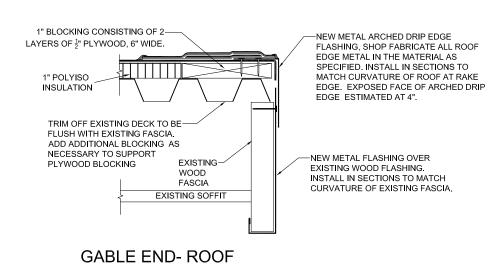
FOOTING, APPLY SEALANT

AROUND BASE OF BOLLARD

3'-6"

4' DEEP X 18" DIA

SAFETY BOLLARD LOCATION A108 **DETAIL** NOT TO SCALE





**EDGE AT RAKE** 

SAFETY BOLLARD 4 A108 DETAIL NOT TO SCALE

#### **GENERAL STRUCTURAL NOTES:**

- ALL MATERIALS, CONSTRUCTION, AND DETAILS SHALL CONFORM TO THE FOLLOWING:
- A. PLANS AND SPECIFICATIONS
- B. 2015 INTERNATIONAL BUILDING CODE
- C. OSHA REGULATIONS
- D. ALL LOCAL AND SAFETY CODES
- 2 CONTRACTOR SHALL CROSS CHECK WITH ARCHITECTURAL HVAC. AND PLUMBING PLANS FOR OTHER DETAILS DIMENSIONS FLEVATIONS OPENINGS INSERTS STEEL STAIRS AND BRICK LEDGES, ETC. ARCHITECT OR ENGINEER SHALL BE NOTIFIED OF ANY VARIANCE BEFORE CONTRACTOR BEGINS WORK, RESOLVE APPARENT DEFICIENCIES, OMISSIONS CONTRACTOR BEGINS WORK, RESOLVE APPARENT DEFIGIENCES, MINISIONES, TO CONTRADICTIONS, INCONSISTENCIES AND AMBIGUITIES IN CONTRACT DOCUMENTS WITH ARCHITECT / ENGINEER DURING THE BID PERIOD, IF ANY SUCH CONDITION CANNOT BE RESOLVED DURING THE BID PERIOD, SUBMIT BID USING THE INTERPRETATION RESULTING IN THE GREATEST COST AND RESOLVE SUCH ITEMS PRIOR TO BEGINNING THE WORK.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW OR EXISTING STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR CONSTRUCTION MEANS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
- DIMENSIONS SHOWN ON ARCHITECTURAL DRAWINGS SUPERCEDE DIMENSIONS SHOWN ON ICTURAL PLANS, RESOLVE DISCREPANCIES W/ ENGINEER BEFORE PROCEEDING, DO NOT SCALE THE DRAWINGS.
- 6 THE CONTRACTOR SHALL FIFLD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCY IMMEDIATELY
- IN NO CASE SHALL STRUCTURAL REPAIRS, CORRECTIONS, ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE UNLESS APPROVED BY THE ENGINEER, SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER AND PAID FOR BY THE CONTRACTOR. A/E DESIGN OR REVIEW IS CONTRACTOR'S EXPENSE.
- CONTRACTOR. ARE DESIGN OR REVIEW IS CONTRACTOR'S EXPENSE.

  THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL BUILDING MATERIALS AND COMPONENTS. COMPONENT LOCATIONS ARE SHOWN FOR DESIGN INTENT, NOT EXACT LOCATION, UNLESS NOTED SPECIFICALLY, INDEPENDENTLY PREPARED SHOP PORAWINGS ARE REQUIRED OF ALL TRADES FOR COORDINATION AND BEST PRACTICE, ERRORS OR OMISSIONS IN INSTALLATION DUE TO CONTRACTOR'S FAILURE TO COORDINATE THE WORK WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 9 IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND IS DIRE CONTINUED AS SOLDE RESPONSIBILITY TO DETERMINE ERROLLION PROCEDURE AND INSECTION. THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES BUT IS NOT LIMITED TO THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE-DOWNS AS MAY BE NECESSARY. ALL CONSTRUCTION AND ERECTION TO CONFORM TO OSHA REQUIREMENTS.
- 10. CONSTRUCTION MEANS AND METHODS ARE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE ENGINEERED AND PROVIDED BY THE TRADE CONTRACTOR REQUIRING SUCH. SUCH WORK INCLUDES BUT IS NOT LIMITED TO:
- EVALUATION OF STRUCTURE FOR CONSTRUCTION EQUIPMENT LOADS SUCH AS CEMENT BUGGIES, FORKLIFTS, MATERIAL STOCKPILES, ETC.
- B. EVALUATION OF STRUCTURE AND INSTALLATION OF ANY NECESSARY SHORING FOR MOVING LOADS DURING INSTALLATION OF HEAVY EQUIPMENT

#### 11. CONNECTORS:

- A. FOR EXTERIOR AND INTERIOR APPLICATIONS WHERE EXPOSED TO MOISTURE (E.G. WOOD DECKS AND POSTS), WHERE PRESSURE TREATED WOOD IS USED, AND FOR INTERIOR CORROSIVE ENVIRONMENTS ALL CONNECTORS SHALL BE HOT DIPPED GALVANIZED PER ASTM A 153A / 153M INCLUDING EXPANSION BOLTS, ANCHOR BOLTS, JOIST HANGERS, AND NAILS.
- B. CONNECTION DESIGN TO STRUCTURAL MEMBERS AND EVALUATION OF STRUCTURAL MEMBER ADEQUACY BY A REGISTERED PROFESSIONAL ENGINEER SHALL BE PROVIDED BY ALL TRADE SUBCONTRACTORS REQUIRING THE CONNECTION.
- C. INSTALLER OF ANCHORS OR CONNECTIONS TO STRUCTURE IS RESPONSIBLE FOR ANCHOR DESIGN AND DETERMINATION OF STRUCTURAL COMPONENT ADEQUACY, DO NOT CUT REINFORCING BARS, PRESTRESS REINFORCING IN PRECAST MEMBERS, OR DAMAGE OTHER EMBEDMENTS
- DAMAGE OF HER EMBEDMENTS.

  2. ALL SUPPORTS, FRAMING, SUB-FRAMING, LIGHT GAGE FRAMING, MISCELLANEOUS STEEL FRAMING, METAL FABRICATIONS, BRACING, BRACKETS, HANGERS, CONNECTORS, EMBEDMENTS, FASTENERS, AND ATTACHMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE THE CONTRACTORS RESPONSIBILITY AND SHALL BE ENGINEERED AND PROVIDED BY THE TRADE CONTRACTOR REQUIRING THE ITEM. COMPLY WITH GOVERNING CODES.
- WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY ARCHITECT / ENGINEER OF DISCREPANCIES.
- 14. DO NOT SUSPEND POINT LOADS FROM ROOF OR FLOOR DECKS, POINT LOADS INCLUDE, BUT ARE NOT LIMITED TO: HANGERS FOR CEILINGS, PIPES, DUCTS, STEEL STUDS, EQUIPMENT, ETC. CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER

#### **MATERIAL DESIGN PROPERTIES:**

REINFORCING STEEL STRENGTHS:	
BARS (ASTM A 615, GRADE 60)	Fy = 60,000 PSI
WELDED WIRE MESH (ASTM A 185)	Fy = 65,000 PSI
STRUCTURAL MASONRY STRENGTHS:	
ASTM C 90, GRADE N CMU	fm = 1,500 PSI
MORTAR (ASTM C 270)	
TYPE M (BELOW GRADE)	fu = 2,500 PSI
TYPE S (ABOVE GRADE)	fu = 1,800 PSI
GROUT (ASTM C 476)	
BOND BEAMS (PEA GRAVEL)	f'c = 3,000 PSI
MASONRY WALLS & PIERS (PEA GRAVEL)	f'c = 3,000 PSI

#### DESIGN DATA:

#### DESIGN CODE(S):

2016 WCBC - WISCONSIN COMMERCIAL BUILDING CODE 2015 IBC - INTERNATIONAL BUILDING CODE

#### WIND LOAD INFORMATION:

BASIC WIND SPEED (NOMINAL)	81.3
BUILDING OCCUPANCY CATEGORY	-1
WIND LOAD IMPORTANCE FACTOR (Iw)	1,00
WIND EXPOSURE	С
INTERNAL PRESSURE COEFFICIENTS	± 0.
HORIZONTAL MWFRS SIMPLE DIAPHRAGM	
TRANSVERSE DIRECTION:	

INTERIOR ZONE:	WALL	15.7 PS
	ROOF	-3.7 PSI
END ZONE:	WALL	23,5 PS
	ROOF	-6.7 PSI
LONGITUDINAL DIRECTION	l:	
INTERIOR ZONE:	WALL	11.6 PS
	10/01/1	47.5 DO

## COMPONENTS AND CLADDING (GROSS WIND PRESSURES

(FOR ZONE DEFINITION & D	AGRAMS SEE DESIG	N GUIDE ASCE / S	EI 7-10 SECTION 6)
WIDTH OF PRESSURE CO	FFICIENT ZONE (A)	4.0 FT.	
TRIBUTARY WIND LOAD AF	REAS 10 SF	50 SF	100 SF
ROOF (GABLE / HIP / MONO	SLOPE):		
NEGATIVE ZONE 1	-18.2 PSF	-17.0 PSF	-16.5 PSF
NEGATIVE ZONE 2	-31.6 PSF	-25.7 PSF	-23.2 PSF
NEGATIVE ZONE 3	-46,7 PSF	-39.7 PSF	-36.6 PSF
POSITIVE ALL ZONES	16.0 PSF	16.0 PSF	16.0 PSF
WALLS:			
NEGATIVE ZONE 4	-21.5 PSF	-18.5 PSF	-16.5 PSF
NEGATIVE ZONE 5	-26.6 PSF	-20.6 PSF	-16.5 PSF
manufacture manufacture and			

POSITIVE ZONE 4 & 5	19.8 PSF	16.9 PSF	16.0 F
PARAPETS:			
CORNER ZONE	N/A	N/A	N/A
INTERIOR ZONE	N/A	N/A	N/A
OVERHANGS / CANOPIE	<u>s:</u>		
INTERIOR ZONE	-37.0 PSF	-37.0 PSF	-37.0

CORNER ZONE	-62.2 PSF	-48.1 PSF	-42
SEISMIC LOAD INFORMATION:			
SEISMIC USE GROUP / OCC	UPANCY CATEGORY	1	
SEISMIC LOAD IMPORTANC	E FACTOR (le)	1.00	
SEISMIC SITE CLASS (ASSU	IMED)	D	
MAPPED SPECTRAL RESPO	ONSE ACCELERATION (S	s) 0.085	
MAPPED SPECTRAL RESPO	INSE ACCELERATION (S	0.046	
SPECTRAL RESPONSE COE	EFFICIENT (Sds)	0.091	
SPECTRAL RESPONSE COR	EFFICIENT (Sdi)	0.074	
SEISMIC DESIGN CATEGOR	Y	В	

BASIC SEISMIC FORCE RESISTING SYSTEM - ORDINARY PLAIN MASONRY SHEAR WALLS RESPONSE MODIFICATION FACTOR SEISMIC RESPONSE COEFFICIENT (Cs) DESIGN BASE SHEAR

EQUIVALENT LATERAL FORCE ANALYSIS

#### ANALYSIS PROCEDURE SNOW LOAD INFORMATION:

GROUND SNOW LOAD	30 PSF
SNOW EXPOSURE FACTOR (Ce)	1.00
OCCUPANCY CATEGORY	1
SNOW LOAD IMPORTANCE FACTOR (Is)	0.8
THERMAL FACTOR (Ct)	1,20
FLAT ROOF SNOW LOAD (Pf)	20.2 PSF
BALANCED SNOW LOAD (Ps)	20.2 PSF
UNBALANCED SNOW LOADS:	
WINDWARD SNOW LOAD	6.0 PSF
LEEWARD SNOW LOAD (RIDGE TO 7.68')	37.3 PSF

ALLOWABLE NET SOIL BEARING PRESSURE	2,000 PSF (ASSUMED)
SOILS REPORT AVAILABLE	NO
FOOTING SIZE	SEE CALCULATIONS - MIN 10" W

## ROOF TRUSS DESIGN LOADS

LEEWARD SNOW LOAD (7.68' TO EAVE)

DESIGN / BALANCED SNOW LOAD (Ps)	20.2 PSF
UNBALANCED SNOW LOADS	SEE SNOW LOAD INFORMATION
DESIGN DEAD LOADS:	
TOP CHORD	10 PSF
BOTTOM CHORD	4 PSF
DEFLECTION LIMITS:	
LIVE LOAD	L / 360
TOTAL LOAD	L / 240

COORDINATE SIZE AND LOCATION OF RTU'S, IF ANY, WITH SUPPLIER

- THE DESIGN AND FABRICATION OF ALL WOOD TRUSSES SHALL COMPLY WITH "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION", AMERICAN FOREST & PAPER ASSOCIATION (AFPA) AND "DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES". TRUSS PLATE
- TRUSSES SHALL BE DESIGNED AND FABRICATED TO CARRY ALL LOADS INCLUDING ROOF UPLIFT DUE TO WIND IMPOSED AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE 2009
- TRUSS MANUFACTURER MAY NOT DEVIATE FROM THE FRAMING PLANS UNLESS PRIOR APPROVAL FROM THE ARCHITECT / ENGINEER HAS BEEN GIVEN, IT IS THE TRUSS MANUFACTURER'S RESPONSIBILITY TO SEEK SUCH APPROVAL PRIOR TO MANUFACTURE AND INSTALLATION OF FRAMING MEMBERS.
- 4. TRUSS MANUFACTURER SHALL PROVIDE A COMPLETE SYSTEM, INCLUDING ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE SYSTEM. THIS INCLUDES PROVIDING DOUBLE, TRIPLE, OR GREATER NUMBER OF COMBINED TRUSSES REQUIRED TO SUPPORT ALL REQUIRED LOADS.
- 5. CONTRACTOR SHALL STORE TRUSSES IN A VERTICAL POSITION RESTING ON LEVEL BEARING ENDS ABOVE THE GROUND ALLOWING AIR TO CIRCULATE, PROTECT MATERIALS FROM WEATHER AND OTHER SITE CONSTRUCTION DAMAGE.
- 6. INSTALL HURRICANE CLIPS AT EACH ROOF TRUSS BEARING LOCATION

#### WOOD TRUSS SHOP DRAWINGS SHALL SHOW THE FOLLOWING INFO:

- INFORMATION WHICH THE RESPONSIBLE BUILDING DESIGN PROFESSIONAL WILL CHECK FOR CODE COMPLIANCE WITH CONTRACT DOCUMENTS:
- ERECTION PLAN: SHOWING DIMENSIONED LOCATIONS, SPACING OF TRUSSES, AND TRUSS IDENTIFICATION.
- B. BEARING DETAILS: SHOWING BEARING LENGTH, WIDTH, AND DEPTH INDICATING
- CONFORMANCE TO DESIGN CALCULATIONS
- C. DESIGN LOADS: ALL DEAD AND LIVE LOADS SHALL BE SHOWN ON THE FRAMING PLAN OR TRUSS ELEVATION INDICATING CONFORMANCE TO THE TRUSS CALCULATIONS.
- D. ALL PERMANENT BRACING: SHOW TOP CHORD, BOTTOM CHORD, AND WEB MEMBER BRACING ON FRAMING PLAN AND TRUSS ELEVATIONS. SUPPLIER AND INSTALLER OF THIS BRACING SHALL ALSO BE INDICATED.
- E. TRUSS DIMENSIONS: SHOW DEPTH, SPAN, BEARING, HEIGHT, AND SLOPES AT ALL CRITICAL
- INFORMATION THAT SHALL BE THE RESPONSIBILITY OF THE FABRICATOR AND TRUSS DESIGNER AND SHALL BE PROVIDED WITH THE SHOP DRAWING SUBMITTAL:
- MEMBER DESIGN: INCLUDING WEB CONFIGURATION, MEMBER SIZE, GRADE OF LUMBER, FABRICATED SPLICES, AND MEMBER BRACING REQUIRED BY TRUSS DESIGN.
   MEMBER CONNECTIONS: DESIGN AND INDICATE ALL NECESSARY HARDWARE FOR PROPER
- INSTALLATION OF TRUSSES INCLUDING, BUT NOT LIMITED TO, GIRDER PLY CONNECTIONS HEADER-TO-TRUSS, TRUSS-TO-GIRDER, AND TRUSS-TO-TRUSS CONNECTIONS, TIE-DOWNS AND FIELD SPLICES.
- C. INTERIOR CONNECTIONS: DESIGN AND SHOW DETAIL OF WEB AND CHORD CONNECTIONS, INCLUDING CONNECTOR PLATE SIZES, CAPACITIES, AND BOLT SIZES.
- D. ERECTION PLAN: SHOW SPACING AND LAYOUT OF ANY TEMPORARY BRACING REQUIRED
- E. STATE SUBMITTAL: SUBMIT THREE (3) SETS OF COMPLETE TRUSS STRUCTURAL CALCULATIONS STAMPED AND SIGMED BY A WISCONSIN REGISTERED PROFESSIONAL ENGINEER TO THE PROJECT ARCHITECT / ENGINEER AND OBTAIN ALL APPROVALS NECESSARY FOR CONFORMANCE TO STATE BUILDING CODE. VERIFY SUBMITTAL AND APPROVAL BY SENDING A COPY OF THE APPROVED DOCUMENTS TO THE BUILDING DESIGN
- PROFESSIONAL. F. PROVIDE ANY COMPONENT DESIGN AND SUBMITTALS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THE PROJECT
- G. PROVIDE CONTRACTOR / INSTALLER WITH ALL DATA NECESSARY FOR PROPER INSTALLATION.

#### WOOD TRUSS BRACING NOTES:

- TRUSS ERECTOR SHALL INSTALL ALL BRACING CALLED FOR ON THE STRUCTURAL FRAMING PLAN, TRUSS SHOP DRAWINGS, OR SPECIFIED BELOW, ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM 2X4 WITH (2) 16D IN EVERY TRUSS IT CROSSES.
- ERECTION BRACING SHALL BE PROVIDED IN ACCORDANCE WITH TPI PUBLICATION BWT-76
  "BRACING WOOD TRUSSES, COMMENTARY AND RECOMMENDATIONS". DESIGNER/FABRICATOR
  SHALL INDICATE ALL NECESSARY CONSTRUCTION / ENGINEERED BRACING ON E
- 3. TRUSS PICKUP POINTS SHALL FOLLOW APPENDIX TO BWT-76.
- 4. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE ROOF OR FLOOR DECKING. 5. ALL TRUSS WEB MEMBERS SHALL BE BRACED AT 4'-0" O/C UNLESS CALCULATIONS INDICATE
- 6. BOTTOM CHORD BRACING SHALL BE 8'-0" O/C MAXIMUM UNLESS MANUFACTURER / DESIGNER SPECIFIES OTHERWISE. CONTINUOUS SHEATHING DIRECTLY APPLIED TO THE BOTTOM CHORD WILL SATISFY THIS BRACING REQUIREMENT.
- ALL ROOF TRUSS HORIZONTAL BRACING SHALL BE SECURELY ANCHORED TO SOLID END WALLS AND STIFFENED @  $20^{\circ}$  O/C WITH EITHER:
- A. DIAGONAL BRACING EXTENDED TO A SHEAR WALL PARALLEL TO THE ORIGINAL BRACING. SEE BRACING DETAILS.
- B. 1/2" THK APA RATED SHEATHING EXTENDED TO ROOF DECK OR SHEAR WALLS.

## CONCRETE REINFORCEMENT NOTES:

18 WALL REINFORCEMENT SCHEDULE

MASONRY NOTES:

VERTICAL BAR POSITIONERS

12. FOR STEEL LINTELS BEARING ON MASONRY:

SPANS LESS THAN 10'-0".

13. FOR WALL REINFORCING:

COURSES DEEP, UNLESS NOTED OTHERWISE.

A. ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.

B. WALL REINFORCING SHALL BE PLACED AT CENTER OF CORE, UNO.

C. SECURE IN PLACE BEFORE GROUTING, CONTINUE VERTICAL REINFORCING FLOOR-TO-FLOOR AND FLOOR-TO-ROOF.

F. BOND BEAM REINFORCING SHALL BE CONTINUOUS AT CONTROL JOINTS.

14. HORIZONTAL JOINT REINFORCING (DUR-O-WALL) SHALL BE PROVIDED AS FOLLOWS:

A. AT 16" O/C VERTICALLY FOR RUNNING BOND WALLS.

FOUNDATIONS AND IN ALL COURSES OF PIERS AND PILASTERS

17. CMU SHALL BE LAID IN RUNNING BOND WITH TYPE S MORTAR.

A. 12" CMU: #5 VERT. BAR IN GROUTED CORE @ 32" O/C.

B. 8" CMU: #4 VERT. BAR IN GROUTED CORE @ 32" O/C.

D. REFER TO MASONRY BAR SPLICE SCHEDULE FOR REQUIRED REINFORCING LAPS.

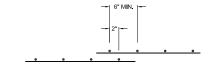
15. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A

CONTINUOUS UNDOSTRUCTED CELL AREA NOT LESS THAN 3" X 4".

16. FACE SHELLS AND WEB FORMING CELLS SHALL BE FULL-BEDDED IN THE STARTING COURSE ON

E. FOR 6', 8', 10', AND 12' CMU WALLS, PROVIDE (1) #5 FULL HEIGHT IN CENTER OF CELL AT CORNERS, INTERSECTIONS, WALL ENDS, OPENING JAMBS, AS WELL AS EACH SIDE OF EXPANSION AND CONTROL JOINTS IN ADDITION TO WALL REINFORCEMENT DEPICTED ON PLANS, SECTIONS, AND DETAILS.

- ALL CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. ALL WELDED WIRE MESH
- ALL REINFORCING SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315 AND 315R (MOST CURRENTLY ADOPTED EDITION).
- 3. PROVIDE MINIMUM COVER PER ACI 318, 7.7.1. ALSO SEE "MILD REINFORCING STEEL
- WIRE SPACERS, CHAIRS, TIES, ETC. FOR SUPPORT OF STEEL REINFORCING SHALL BE PROVIDED BY THE CONCRETE CONTRACTOR TO ENSURE REINFORCING IS PLACED AND MAINTAINED IN THE PROPER POSITION DURING CONCRETE PLACEMENT.
- ALL HOOKS IN STEEL REINFORCING SHALL BE ACI STANDARD HOOKS, UNO.
- 6. TERMINATE NON-CONTINUOUS STEEL REINFORCING WITH AN ACI STANDARD HOOK II REQUIRED EMBEDMENT SHOWN ON DRAWINGS CANNOT BE OBTAINED.
- ALL LAPS SHALL BE CLASS "B" PER ACI 318 UNO ON THE DESIGN DRAWINGS, OR UNLESS THE DETAILER TAKES SPECIAL CARE TO PROVIDE STAGGERED LAPS, USE TOP BAR LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 12" DEEP. USE CLASS "B" LAP FOR BARS AT WALL CORNERS AND INTERSECTIONS
- STEEL REINFORCING SPLICES OF ADJACENT BARS SHALL BE STAGGERED SUCH THAT SPLICES ARE 4' APART, MINIMUM.
- 9. OPENINGS IN CONCRETE WALLS AND SLABS SHALL BE REINFORCED AS DETAILED OR, AS A MINIMUM, WITH TWO (2) #5 BARS PLACED ALONG FACES AND EXTENDING 2-0" BEYOND CORNERS UNLESS OTHERWISE NOTED. PROVIDE ONE (1) #5 BAR X 4'-0" LONG DIAGONALLY AT EACH CORNER PLACED IN EACH FACE OF WALL OR SLAB THICKER THAN 6". SEE
- 10. PROVIDE REINFORCEMENT AT FOOTING STEPS AS SHOWN ON DETAILS. 11. WELDING OF STEEL REINFORCEMENT IS NOT PERMITTED.
- 12. WELDED WIRE MESH (WWM) SHALL BE SUPPLIED IN FLAT SHEETS ONLY AND SHALL BE
- LAPPED AND / OR ANCHORED TO DEVELOP Fy PER ACI 315



- 1. STRUCTURAL SHOP DRAWINGS, UNLESS NOTED OTHERWISE, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED
- PRIOR TO SUBMITTAL. THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE CONTRACTOR SHALL STAMP AND SIGN THE DRAWINGS THAT HE HAS REVIEWED THEM. CONTRACTOR SHALL CLOUD OR FLAG ALL ITEMS NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SHALL VERIFY ALL DIMENSIONS.
- 3. ANY SHOP DRAWINGS RECEIVED WITHOUT THE CONTRACTOR'S SIGNED REVIEW STAMP, OR OTHER EVIDENCE THAT THE CONTRACTOR HAS NOT THOROUGHLY REVIEWED THE DRAWINGS PRIOR TO SUBMITTAL, SHALL BE IMMEDIATELY RETURNED WITHOUT ENGINEER'S REVIEW. ANY CHANGES, SUBSTITUTIONS OR DEVIATIONS FROM THE ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED BY THE MANUFACTURER OR FABRICATOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS WHICH ARE CLOUDED OR FLAGGED BY SUBMITTING PARTIES SHALL NOT BE CONSIDERED APPROVED AFTER THE ENGINEER'S REVIEW, UNLESS SPECIFICALLY NOTED BY THE ENGINEER.
- 5. THE APPROVED SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY ARE NOT TO BE CONSIDERED CHANGES TO THE ORIGINAL CONTACT DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE ITEMS OMITTED OR SHOWN INCORRECTLY ARE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
- 6. SHOP DRAWING REVIEW IS ONLY INTENDED FOR GENERAL CONFORMANCE TO THE DESIGN CONCEPT AND CONSTRUCTION DOCUMENTS.
- SHOP DRAWING WILL BE RETURNED FOR RESUBMITTAL IF MAJOR ERRORS ARE FOUND DURING REVIEW.
- ALLOW A MINIMUM OF (10) WORKING DAYS FOR REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL ENGINEER 9. SHOP DRAWINGS SHALL BE FURNISHED FOR ALL STRUCTURAL COMPONENTS INCLUDING, BUT NOT NECESSARILY LIMITED TO:
- B CONCRETE REINFORCEMENT C. PRECAST CONCRETE COLUMNS, BEAMS, AND FLOOR PLANK
- E. FLOOR TRUSSES

# STRUCTURAL NOTES

## MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF THE "SPECIFICATION FOR MASONRY STRUCTURES" (TMS 602-05 / ACI 530.1-05 / ASCE 6-05) PROVIDE LEVEL B QUALITY ASSURANCE PROGRAM FOR ALL MASONRY CONSTRUCTION PER TABLE 1.15.2 AND AS REQUIRED IN CHAPTER 1. INSPECTION REPORTS SHALL BE FURNISHED TO

PROVIDE LINIT MASONRY THAT DEVELOPS NET-AREA COMPRESSIVE STRENGTH (fm) AT 28 DAYS

CONCRETE GROUT HAVING F'c = 3,000 PSI, UNO, COARSE AGGREGATE SHALL BE PEA GRAVEL

USE ONLY U-SHAPED LINTEL BLOCK FOR MASONRY LINTELS AND BOND BEAMS, PROVIDE 8° (MIN.) DEEP CONTINUOUS BOND BEAM AT ALL BEARING LOCATIONS FOR STRUCTURAL FLOOR AND ROOF MEMBERS AND WHERE NIDICATED ON THE DRAWINGS, GROUT BOND BEAMS SOLID

GROUT CELLS SOLID AT REINFORCING, BOND BEAMS, INSERTS, ANCHORS, STAIR CONNECTIONS, ELEVATOR GUIDE RAILS, AND SIMILAR LOCATIONS.

CONCRETE GROUT PLACEMENT IN REINFORCED MASONRY WALLS, PILASTERS, OR PIERS SHALL FOLLOW THE PROCEDURES DESCRIBED IN NOMA TEK MANUAL 3-2A FOR EITHER LOW-LIFT OR HIGH-LIFT GROUTING, FILLING CORES WITH MORTAR IS NOT PERMITTED. TIE BARS OR PROVIDE

8. CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR, WHEN THE LIFT EXCEEDS 5 FEET.

10. CENTERLINE OF REINFORCING SHALL BE 3" MAXIMUM FROM BOTTOM OF LINTEL BLOCK.

GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.

11. THE FIRST COURSE OF MASONRY ABOVE THE LINTELS SHALL BE LAID WITH FULL MORTAR
BEDDING, AT BEARING WALLS, GROUT END CELL SOLID TO FLOOR BELOW, SEE ARCHITECTURAL
AND STRUCTURAL PLANS FOR SPECIAL BOND BEAM AND LINTEL CONDITIONS, SHORE LINTELS

AND DOOR / WINDOW FRAMES UNTIL MORTAR AND GROUT ACHIEVE SPECIFIED STRENGTH. DO

A. WHEN BEARING PERPENDICULAR TO MASONRY WALL, GROUT AN AREA 4 CELLS WIDE, 4

B. WHEN BEARING PARALLEL TO MASONRY WALL, GROUT EACH CELL UNDER BEAM BEARING TO FOUNDATION AND PROVIDE (1) #5 BAR IN THE END CELL, UNLESS NOTED OTHERWISE, PROVIDE 1 0'5 BEARING AT EACH END FOR SPANS GREATER THAN 10'0'; 8' BEARING FOR

NOT PLACE CONTROL OR EXPANSION JOINTS AT LINTEL BEARING POINTS OR ANYWHERE WITHIN

AND REINFORCE WITH (2) #5, UNO. PROVIDE CORNER BARS TO MATCH. SEE MASONRY BAR

AS SPECIFIED IN "MATERIAL DESIGN PROPERTIES". DETERMINE NET-AREA COMPRESSIVE STRENGTH (fm) OF MASONRY BY THE UNIT STRENGTH METHOD.

4. BOND BEAMS, PILASTERS, LINTELS, AND REINFORCED WALL CELLS SHALL BE FILLED WITH



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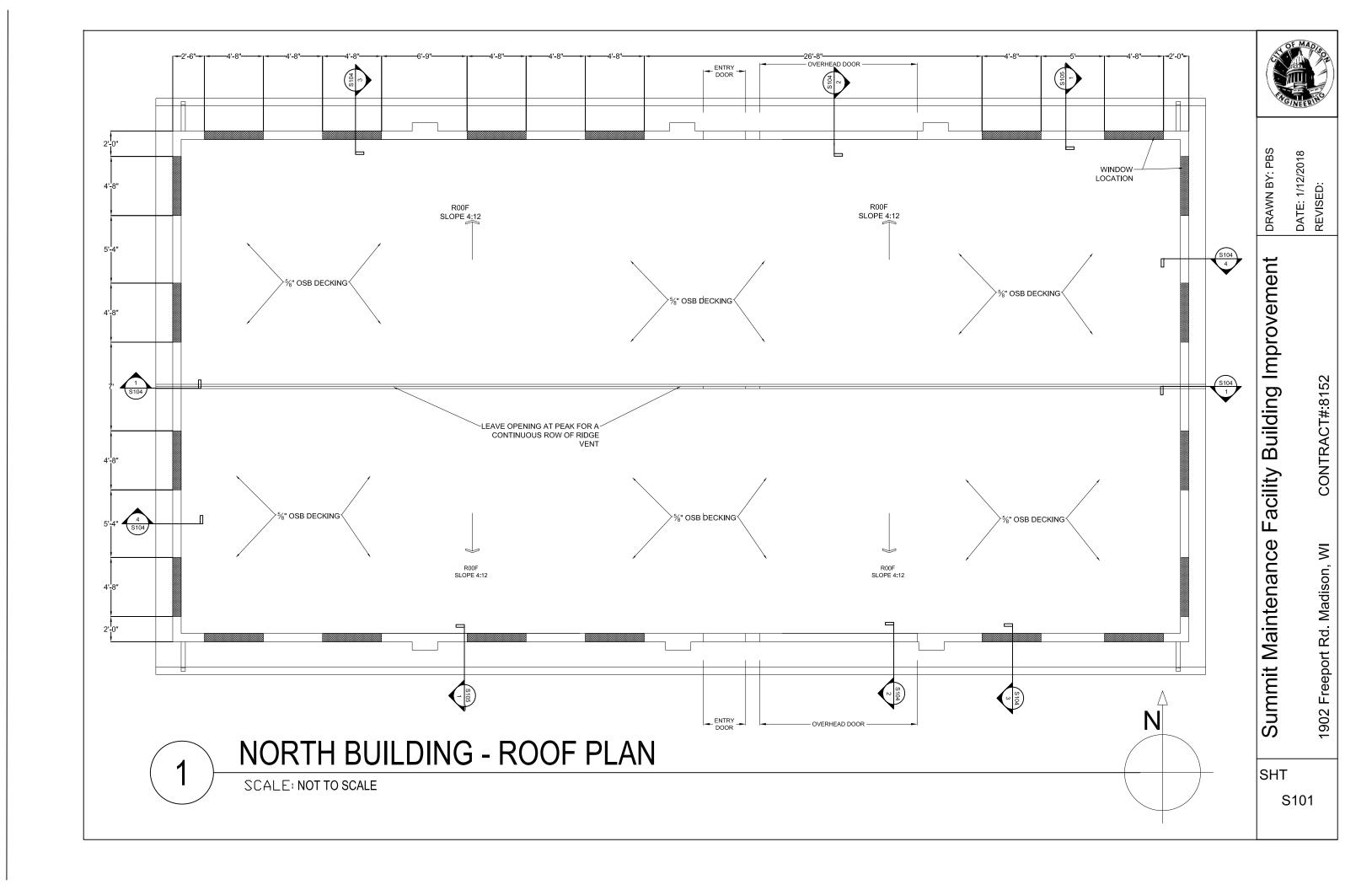
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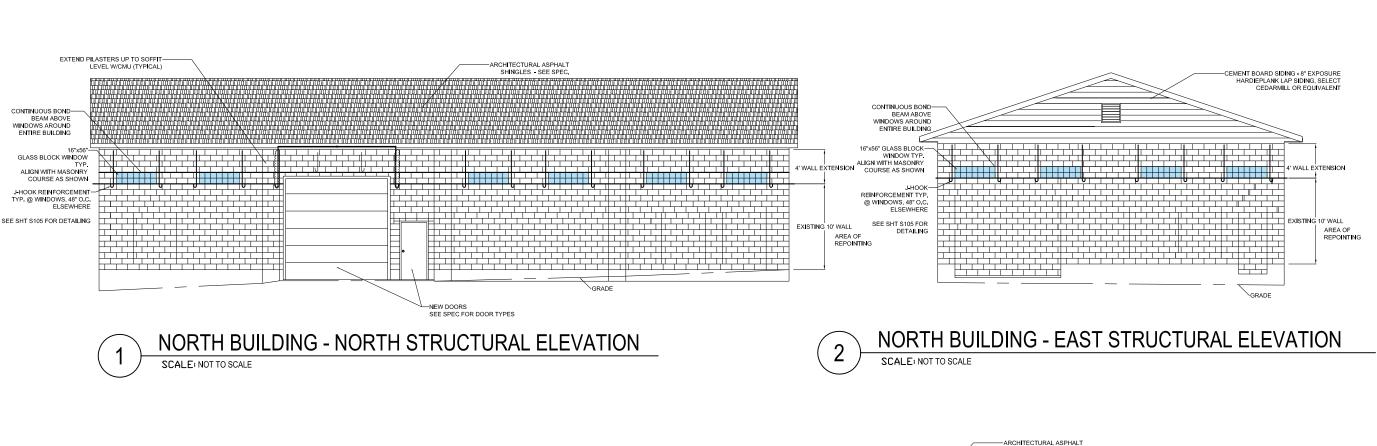
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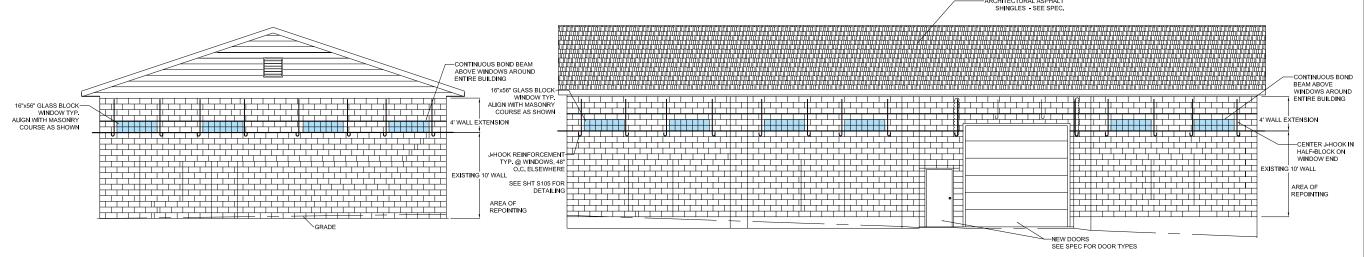
CONTRACT#:81

Madison, Rd.

SHT







NORTH BUILDING - WEST STRUCTURAL ELEVATION SCALE: NOT TO SCALE

NOTE: J-HOOKS MAY BE INSTALLED GREATER THAN 48" ON CENTER AT EACH END OF THE GLASS BLOCK WINDOWS AS SHOWN. THEY SHALL BE INSTALLED IN THE ADJOINING CMU UNITS APPROXIMATELY 4 INCHES FROM THE GLASS BLOCK. FOR ALL OTHER LOCATIONS INCLUDING THE DOOR LINTELS, J-HOOKS SHALL BE EVENLY SPACED WITH A MAXIMUM SPACING OF 48" ON CENTER. ALL J-HOOKS SHALL BE INSTALLED AT THE ELEVATION NOTED IN DETAIL 2/S104 & 1/S105 WITH SHORTER J-HOOK LENGTHS TO COMPENSATE FOR THE SHORTER DISTANCE AT THE LINTELS.

NORTH BUILDING - SOUTH STRUCTURAL ELEVATION SCALE: NOT TO SCALE

DRAWN BY: PBS

DATE: 1/12/2018

**Building Improvement** 

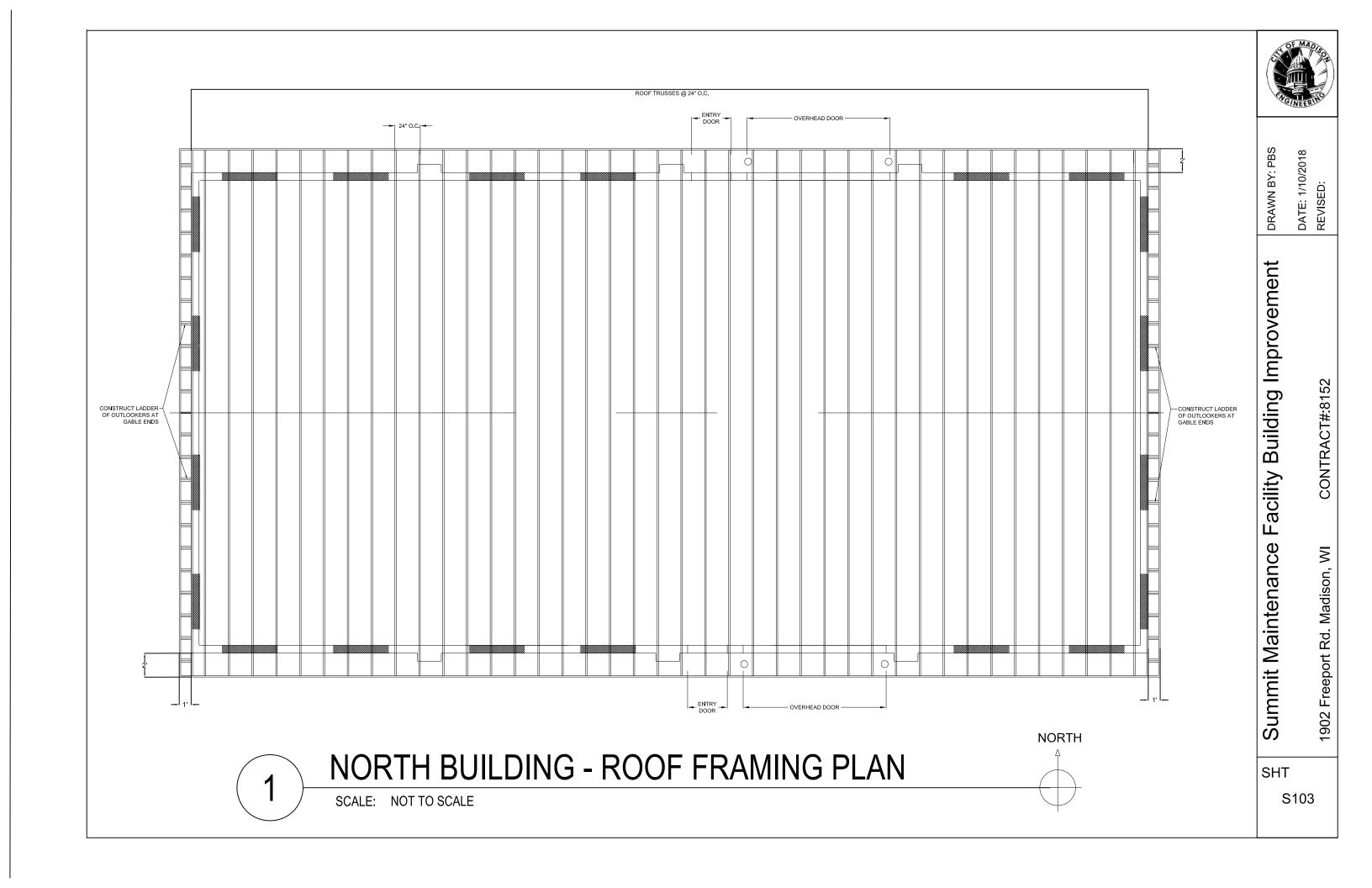
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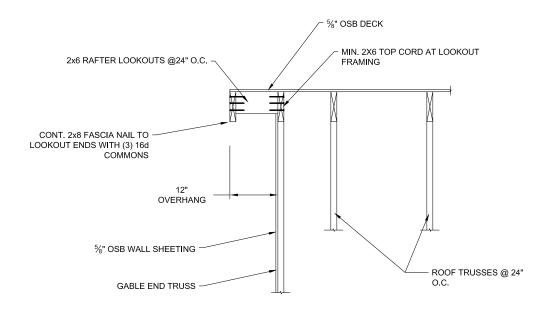
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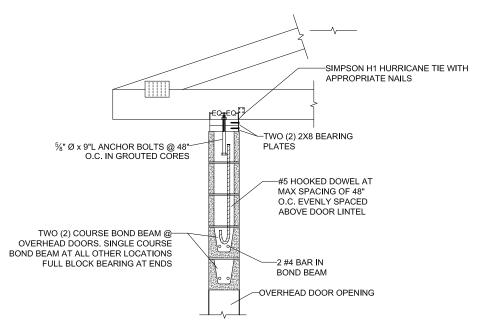
1902 Freeport Rd. Madison, WI

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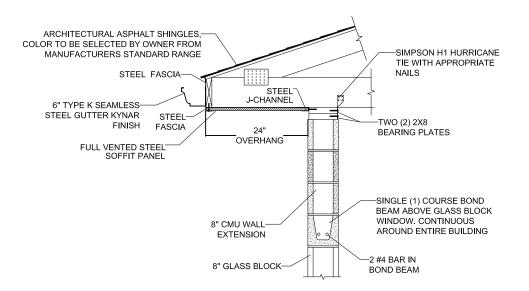




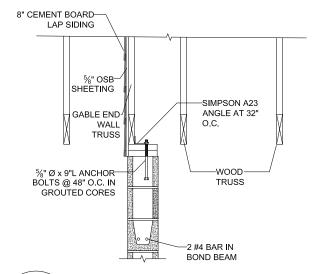




CMU WALL EXTENSION @ O.H. S104 DOOR 1/2"= 1'-0"



CMU WALL @ GLASS BLOCK WINDOW 1/2"= 1'-0"



TRUSS TO END WALL CONNECTION S104

NORTH BUILDING - STRUCTURAL DETAILS

NOTE: ALL DIMENSIONS SHOULD BE FIELD VERIFIED BY CONTRACTOR

DRAWN BY: PBS

DATE: 1/12/2018

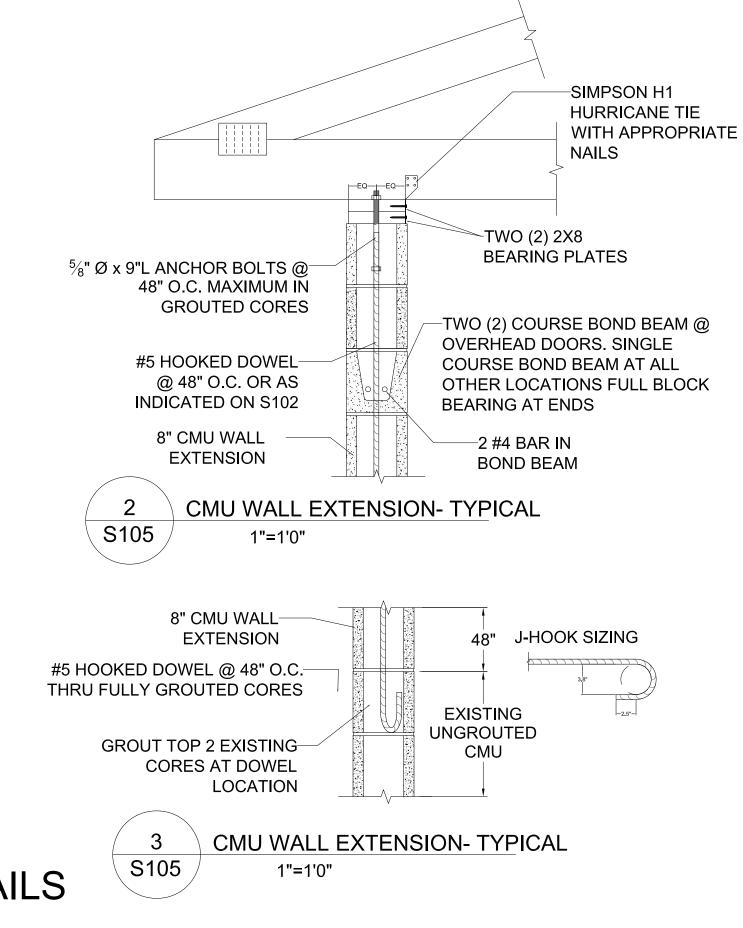
Facility Building Improvement

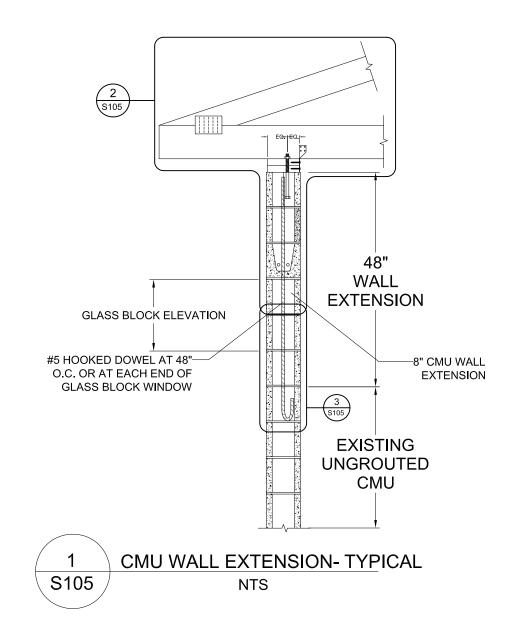
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SHT S104

Summit Maintenance





NORTH BUILDING - WALL DETAILS

Facility Building Improvement

DATE: 1/12/2018

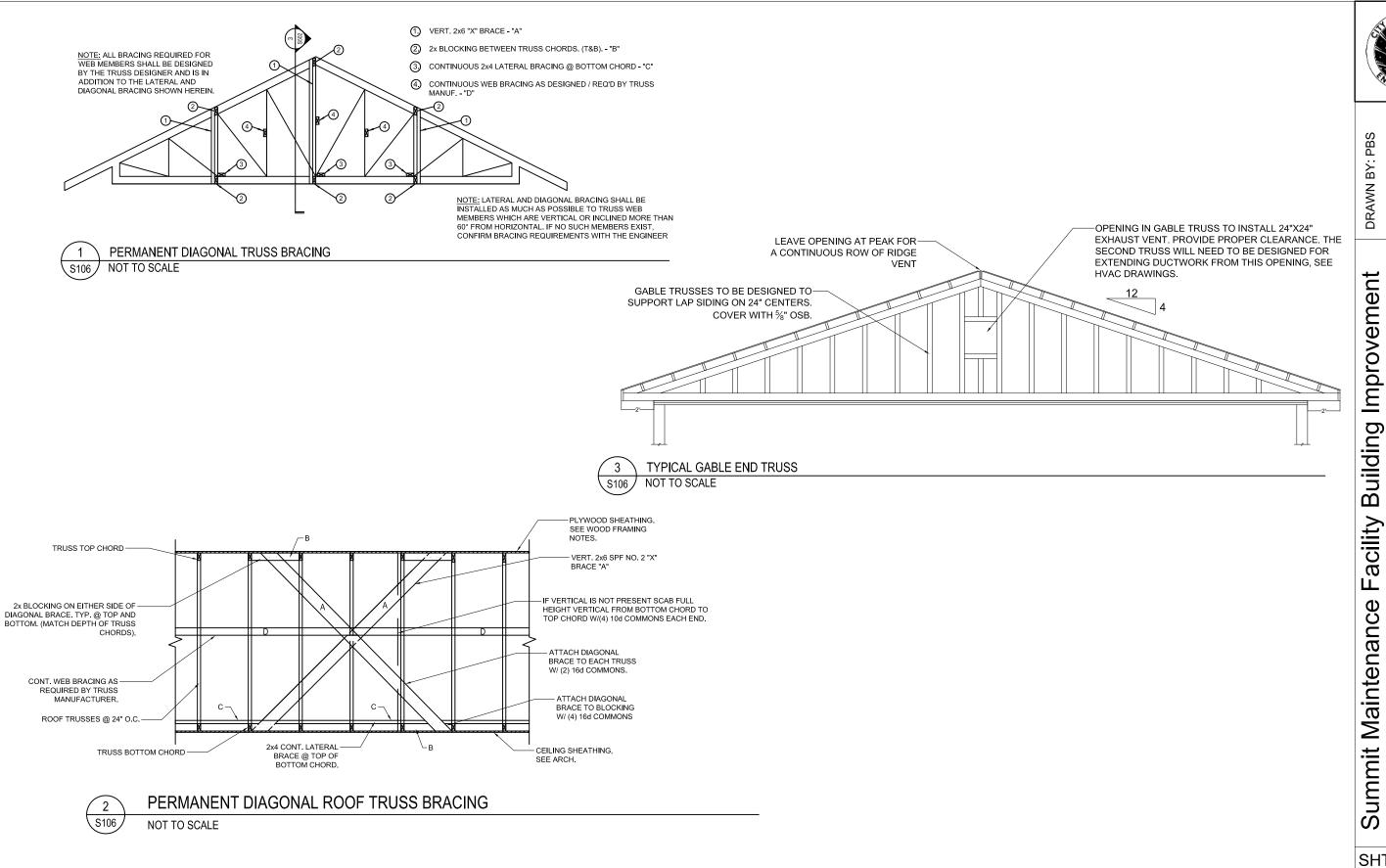
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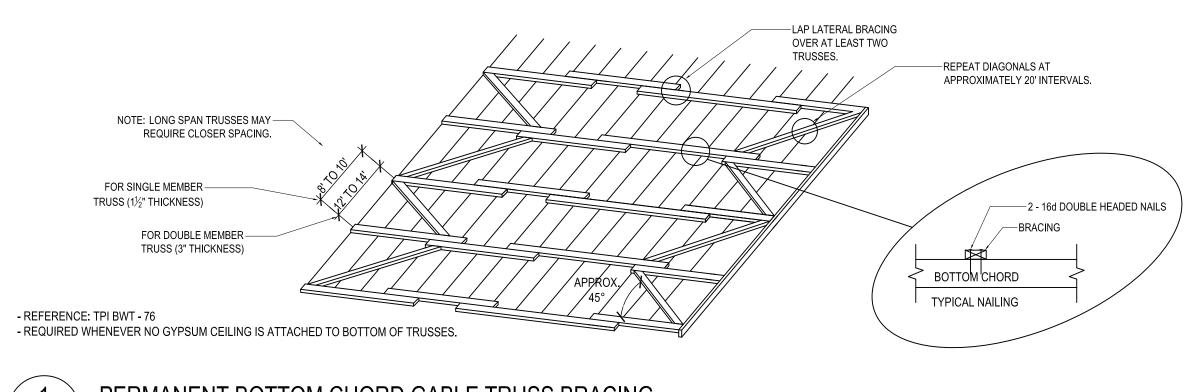
NORTH BUILDING - TRUSS DETAIL 1

DATE: 1/14/2018 REVISED:

CONTRACT#:8152

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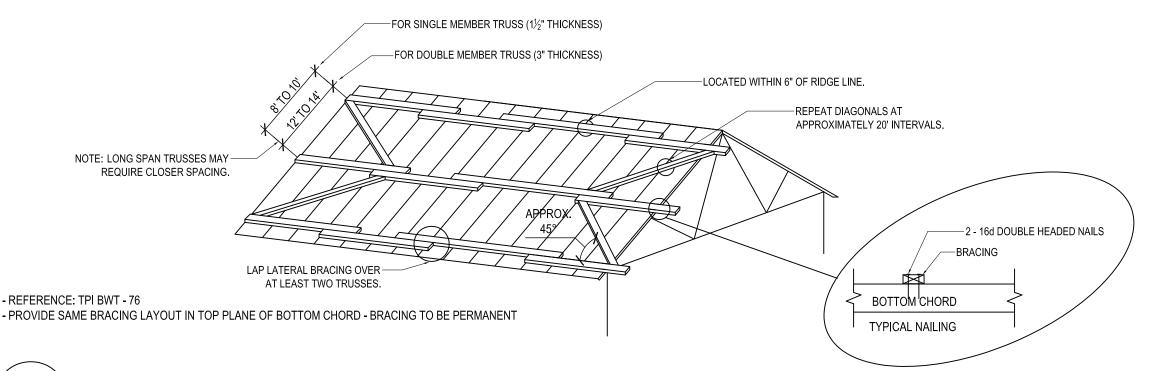
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S107

## PERMANENT BOTTOM CHORD GABLE TRUSS BRACING

1/4" - 1'-0"



S107

TEMPORARY TOP CHORD TRUSS BRACING

1/4" - 1'-0"

NORTH BUILDING - TRUSS DETAIL 2



DRAWN BY: PBS

DATE: 1/12/2018 REVISED:

**Building Improvement** 

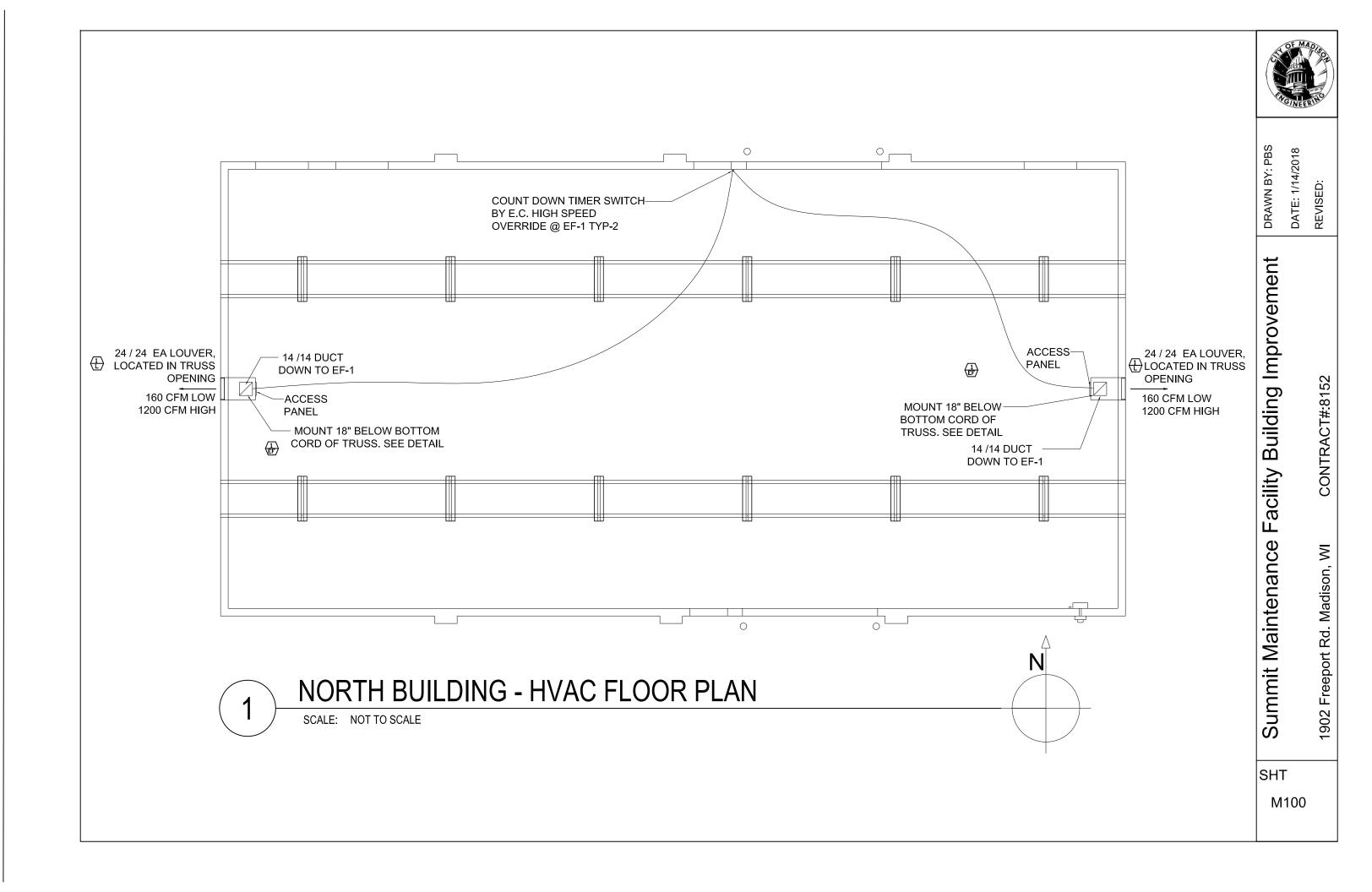
Facility

Summit Maintenance

CONTRACT#:8152

1902 Freeport Rd. Madison,

SHT





DATE: 1/15/2018

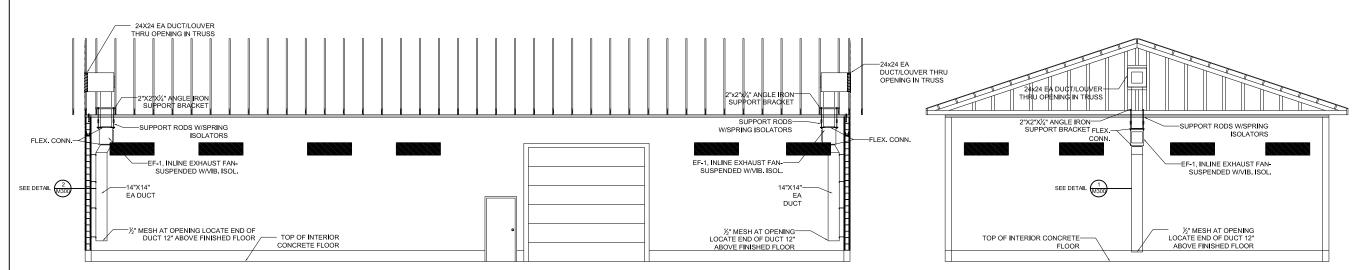
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CONTRACT#:8152

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1902 Freeport Rd. Madison,

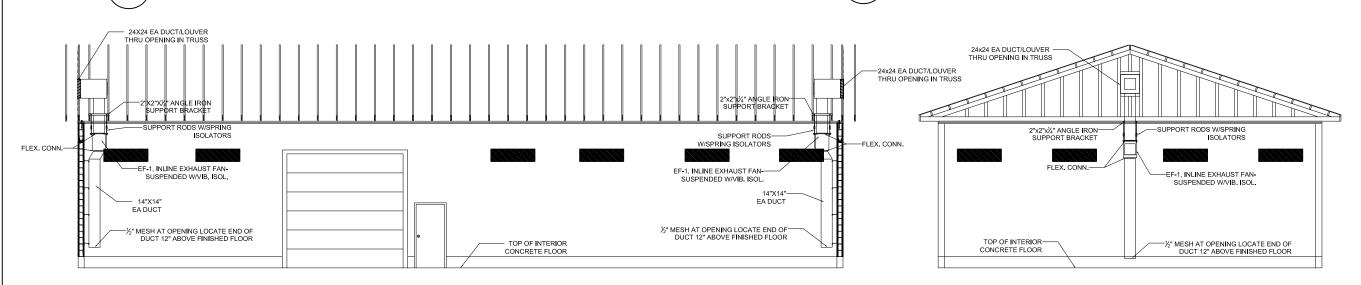


NORTH BUILDING - NORTH INTERIOR HVAC ELEVATION

SCALE: NOT TO SCALE

NORTH BUILDING - WEST INTERIOR HVAC ELEVATION

SCALE: NOT TO SCALE



NORTH BUILDING - SOUTH INTERIOR HVAC ELEVATION

SCALE: NOT TO SCALE

4 NORTH BUILDING - EAST INTERIOR HVAC ELEVATION

SCALE: NOT TO SCALE

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M200

LOUVER SCHEDULE								
TAG     MANUFACTURER     MODEL     TYPE     METAL     LOUVER DEPTH x W x HT     FREE AREA S.F.     SERVICE     REMARKS							<u>REMARKS</u>	
L-1	VENT PRODUCTS	2730	STAT.	EXT. ALUM.	4" x 24" x 24"	1.76	EXHAUST AIR	12

- (1) BIRD SCREEN ALUM.
- (2) POWDER COAT BAKED ENAMEL FINISH; FINAL COLOR SELECTION BY ARCHITECT.

## **EXHAUST FANS SCHEDULE GREENHECK** MANUFACTURER SQ-100-VG MODEL NO. **STORAGE** AREA SERVED BLDG 160/1200 (LO/HIGH) ESP \*WG 1567 (HIGH) RPM SPRING VIB. MOUNTING **HANGERS** DIRECT DRIVE SONES (INLET/RADIATED 10.0/7.9 ELECTRICAL: 1/4 (0.13) MOTOR HP (BHP) 3.7 FAN F.L.A. 115/1 VOLTAGE/PHASE LOW-CONTINUOUS HIGH-TIMER SW

NOTE: ALL EF LINE VOLTAGE CONTROLS WIRED BY E.C.

**INLINE EF** 

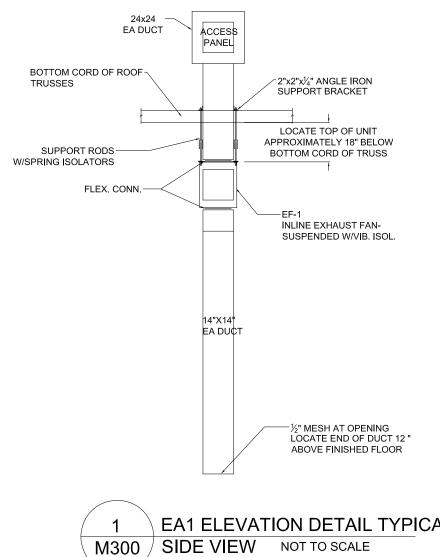
1234

TWO-SPEED MOTOR CONTROL.

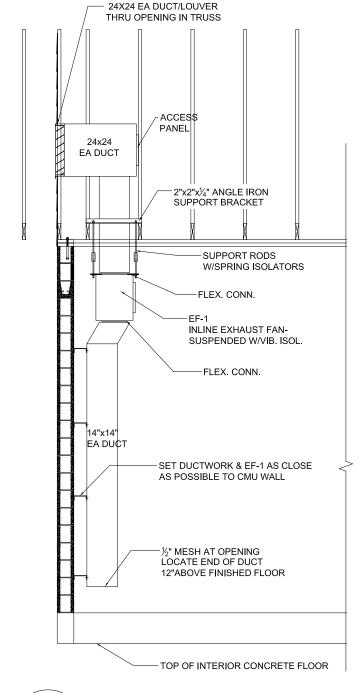
CONTROL

REMARKS:

- ECM MOTOR WITH UNIT-MOUNTED POTENTIOMETERS FOR BALANCING.
- ③ SPRING/NEOPRENE VIBRATION ISOLATION HANGERS.
- (4) NEMA 1 DISCONNECT SWITCH UNIT-MOUNTED.







**EF-1 ELEVATION DETAIL -TYPICAL** M300 / END VIEW NOT TO SCALE

HVAC DETAIL & SCHEDULES



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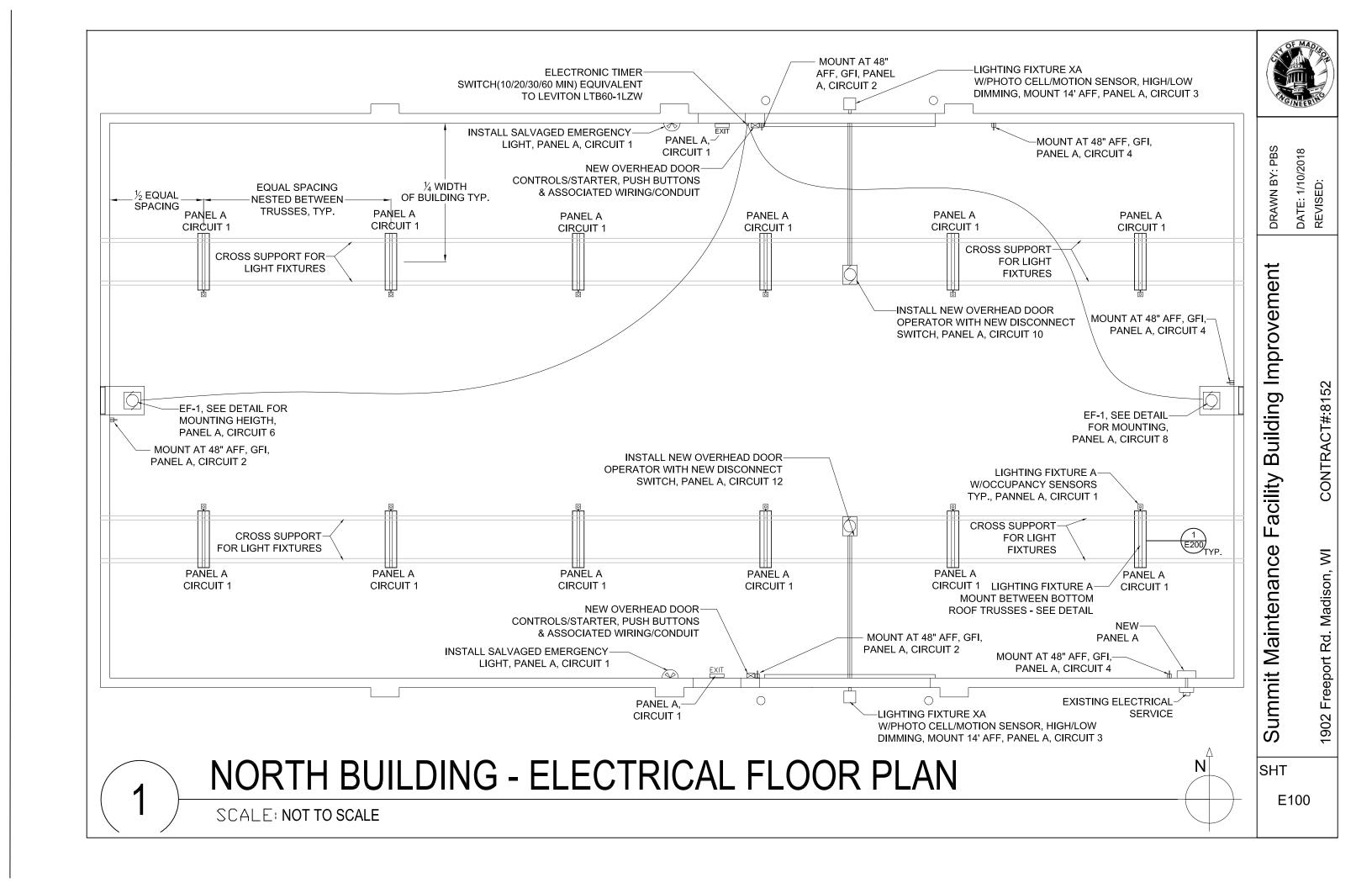
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Freeport Rd. Madison,

SHT M300



## **ELECTRICAL MOTOR/** EQUIPMENT SCHEDULE

TAG	1					
PANEL						
NO.	A					
CIRCUIT	8					
BREAKER	15					
POLE	1					
WIRING 1	2+G (#12)					
TYPE	THHN					
SIZE	#12					
COND.	1/2"					
ELECTRICAL HP	1/4					
VOLT	115					
PHASE	1					
FLA (MCA)	3.7 (4.6)					
STARTER TYPE	N.R.					
SIZE	-					
BY	-					
CONTROL TYPE	LOW SPEED-CONT HI SPEED-TIMER					
BY	E.C.					
DISCONNECT TYPE	w/UNIT					
SIZE	-					
FUSE	-					
BY	H.C.					
REMARKS	EXHAUST FAN EF-1 ②					

- E.C. = ELECTRICAL CONTRACTOR
- H.C. = HVAC CONTRACTOR
- P.C. = PLUMBING CONTRACTOR
- G.C.=GENERAL CONTRACTOR
- N.R.=NOT REQUIRED H.D.=HEAVY DUTY
- 1 PROVIDE GREEN WIRE GROUND TO ALL MOTORS AND EQUIPMENT PER NEC 250-95.
- ② PROVIDE ELECTRONIC TIMER SW (10/20/30/60 MIN) FOR EF-1 HIGH SPEED OVERRIDE CONTROL. COORDINATE WIRING WITH HVAC TRADE.

	LIGHTING FIXTURE SCHEDULE										
TAG	<u>LAMPS</u>		MOUNTING	MFGR. & MODEL	REMARKS_						
	<u>NO</u> .	<u>TYPE</u>	WATTS								
Α	-	LED	75	W/FIXTURE	SURFACE	LITHONIA - MSL-8000LM-SBL- MVOLT-GZ10-40K-80 CRI-LBOTU-WH	(1)(2)(4)	4 FT LOW BAY LED 8000L, 4K			
XA	-	LED	20	W/FIXTURE	SURFACE/ WALL	LITHONIA - DSXW1-LED-10C-530- 40K-TFTM-MVOLT-PIR1FC3V-DDBXD	(1)(3)(5)	EXT. WALL LIGHT 2200L, 4K W/HI/LOW DIM-PC			
8		LED	1	W/FIXTURE	SURFACE	LITHONIA - LV-S-W-1-R-120-ELN-CW	(1)(3)(4)(6)	EXIT LIGHT W/BATTERY BACKUP			

### LAMP ABBREVIATIONS:

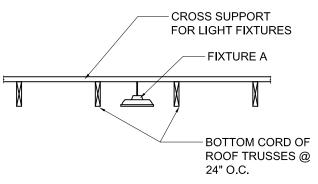
LED=LIGHT EMITTING DIODE

- 1) LED LAMPING/DRIVER.
- (2) INTEGRAL LOW-BAY OCCUPANCY SENSOR (PIR).
- WET LOCATION UL LISTED.
- (4) LOW-TEMP OPERATION (-20°F).
- HIGH/LOW OCCUPANCY SENSOR DIMMING W/PHOTOCELL.
- EMERGENCY BATTERY BACKUP.

ALL VOLTAGES ARE 120 VOLT UNLESS INDICATED OTHERWISE.

			PANEL	'A'	Δ	VIC=22K V	W/SERVI	CE GF	RND				
			00	VOL PHA	_	120/24 1	40				URFACE RAGE BLDG	<b>3</b>	<u>-</u> -
BR	KR	DESCRI	PTION	CIRCUIT PHASELOADS		CII	RCUIT	JIT DESCRIPTION		BRK	·R		
A	Р	1		WATT	NO.	Α	В	NO.	WATT		_	Α	Р
20	1	INTERIOR LTS		900	1	1440		2		RECEPT		20	1
20	1	EXTERIOR BLDG	SLTS	40	3		580	4	540	RECEPT		20	1
					5	430		6	430	EXHAUST FAN EF-1 WEST		15	1
					7		430	8	430	EXHAUST FAN EF-1 EAST		15	1
					9	800		10	800	OHD OPERATOR NORTH		20	1
					11		800	12	800	OHD OPERATOR SOUTH		20	1
					13			14					
					15			16					1
					17			18					1
					19			20			$\longrightarrow$		1
					21			22					1
					23			24					
						2670	1840						
ESTIMATED DEMAND LOAD: 4,480 WATTS LOADS: LOADS: MPS								VATT AMPS	_				

ELECTRICAL SYMBOL SCHEDULE	SYMBOL GRAPHIC
Duplex Receptacle, GFI, INSTALL AT 48" OFF FLOOR	#
Occupancy Sensor	Ō
Emergency Light Fixture, Salvaged	<b>@</b>
Motor Connection , See Equipment Schedule for type, wirlng, etc.	<b>\$</b>
Exit Light Sign, LED	EXIT
Lighting Fixture A, Interior	
Lighting Fixture XA, Exterior	Ċ
Electrical Panel A	1
Existing Electrical Meter	Ъ
Overhead Door Controls, Starter, & Push Buttons as supplied by manufacturer, installation responsibility by G.C. New electrical disconnect supplied by the E.C.	$\boxtimes$





# LIGHTING DETAIL & SCHEDULES



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E200