DOCUMENT 00 90 00 ADDENDUM

ADDENDUM NO. [1] Date: May 7, 2018

RE: WESTERN TECHNICAL COLLEGE

INDOOR SHOOTING RANGE

11177 COUNTY RD A SPARTA, WI 54656

FROM: HSR Associates, Inc

100 Milwaukee Street La Crosse, WI 54603 (608) 784-1830

To: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated May 2018. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [1] page and [3] 24 x 36 drawings.

CHANGES TO DRAWINGS

- 1. Add Sheets S001, S100 and S101, attached hereto, as part of Contract Documents.
- 2. Sheet A001 COVER SHEET
 - a. At Electrical Index change "E600" to "E500"

END OF DOCUMENT 00 90 00

18003 00 90 00 -1

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= 50,000 PSI; F_{II} = 62,000 PSI HSS SHAPES -RECTANGULAR (ASTM A500, GRADE C) HSS SHAPES -ROUND (ASTM A500, GRADE C) = 46,000 PSI; F_u = 62,000 PSI STEEL PIPE (ASTM A53, GRADE B) = 35,000 PSI; F_v = 60,000 PSI $F_y = 36,000 \text{ PSI}; F_v = 58,000 \text{ PSI}$ WOOD JOISTS/HEADERS (SPF, No. 2 OR BETTER) $\frac{1}{10}$ 875 PSI $\frac{1}{10}$ = 135 PSI $\frac{1}{10}$ = 425 PSI $\frac{1}{10}$ = 1,400,000 PSI

f'c = 3,000 PSI

 $F_{y} = 36,000 \text{ PSI}$

f_u = 36,000 PSI

F₁₁ = 50,000 PSI; F₁₁ = 65,000 PSI

= 36,000 PSI; F_{II} = 58,000 PSI

F, II=1,850 PSI E =1,700,000 PSI

► GENERAL NOTES

GROUT (ASTM C476)

• STRUCTURAL STEEL (SHAPES)

ANCHOR RODS (ASTM FI554, GRADE 36)

M, S, HP SECTIONS, CHANNELS, ANGLES, PLATES (ASTM A36)

POSTS (SOUTHERN PINE, NO. 2 DENSE OR BETTER) F. =1,700 PSI

WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

BOLTS AND LAG SCREWS (ASTM A307, GRADE A)

WF, WT SECTIONS (ASTM A992)

 EXISTING CONDITIONS INFORMATION PERTAINING TO EXISTING CONDITIONS GIVEN ON THE STRUCTURAL DRAWINGS REPRESENTS THE ACTUAL EXISTING FIELD CONDITION TO THE BEST OF OUR KNOWLEDGE. R.A. SMITH, INC. MAKES NO WARRANTY AS TO THEIR ACCURACY. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS, DIMENSIONS AND BUILDING CONDITIONS AFFECTING THE WORK BY DIRECT SURVEY AND MEASUREMENT PRIOR TO THE FABRICATION, ERECTION OR CONSTRUCTION OF ANY ITEM IMPACTED BY EXISTING CONDITIONS. REPORT DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS FOR REVIEW. ANY WORK PERFORMED PRIOR TO THE RESOLUTION OF THE DISCREPANCIES IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.

EXISTING STRUCTURE TO REMAIN IS SHOWN WITH LIGHT GRAY LINES. EXISTING STRUCTURE TO BE REMOVED IS NOT GENERALLY SHOWN ON STRUCTURAL DRAWINGS - SEE ARCHITECTURAL DRAWINGS FOR DEMOLITION DRAWINGS.

ALL EXISTING STRUCTURE TO REMAIN TO BE SUPPORTED BY NEW CONSTRUCTION SHALL BE SHORED UNTIL NEW CONSTRUCTION IS IN PLACE, COMPLETED, AND CAPABLE OF SUPPORTING THE EXISTING STRUCTURE. EXISTING STRUCTURE TO REMAIN THAT IS AFFECTED, BUT NOT SUPPORTED, BY NEW CONSTRUCTION SHALL BE SHORED UNTIL IT IS NO LONGER AFFECTED BY CONSTRUCTION ACTIVITIES.

 CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE, BUILDING STRUCTURE HAS BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION ONLY, AND HAS NOT BEEN ANALYZED, INVESTIGATED OR DESIGNED FOR OVERALL STRUCTURE, OR INDIVIDUAL MEMBER, STABILITY DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY BRACING AND SUPPORTS FOR ALL STRUCTURAL ELEMENTS, BOTH INDIVIDUALLY AND COLLECTIVELY, AS REQUIRED AT EVERY STAGE OF CONSTRUCTION UNTIL THE FINAL COMPLETION OF THE STRUCTURE. NO PORTION OF THE BUILDING STRUCTURE, WHILE UNDER CONSTRUCTION IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTORS TEMPORARY BRACES AND SUPPORTS, WHICH SHALL ADDITIONALLY PROVIDE SUPPORT FOR ALL CONSTRUCTION LOADING. MATERIALS AND EQUIPMENT SHALL BE STORED, TRANSPORTED AND INSTALLED IN A MANNER THAT WILL NOT EXCEED THE DESIGN FLOOR LOADING.

CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TEMPORARY BRACING, SUPPORTS, SHORING, FORMING TO SUPPORT IMPOSED CONSTRUCTION LOADS, AND OTHER SIMILAR ITEMS.

STRUCTURAL DOCUMENTS MAY REFER TO OSHA REQUIREMENTS. SUCH REFERENCES ARE INCIDENTAL, AND ARE NOT INTENDED TO IDENTIFY ALL APPLICABLE OSHA REQUIREMENTS.

 COMPLETENESS INFORMATION CONTAINED IN THE GENERAL NOTES IS ONLY A PARTIAL SUMMARY OF PROJECT REQUIREMENTS.

SEE SPECIFICATIONS, PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT MANUALLY SCALE THE DRAWINGS OR USE ANY

DIMENSIONS MEASURED FROM ELECTRONIC DRAWING FILES.

UNLESS NOTED OTHERWISE, CENTERLINE OF FLOOR FRAMING ELEMENTS COINCIDES WITH COLUMN CENTERLINES, AND FRAMING ELEMENTS ARE EQUALLY SPACED BETWEEN ADJACENT COLUMN CENTERLINES.

MAJOR OPENING LOCATIONS AND SIZES ARE INDICATED ON THE STRUCTURAL DRAWINGS - SMALLER OPENINGS AND SLEEVES REQUIRED TO ACCOMMODATE VARIOUS BUILDING SERVICES MAY NOT BE NOTED. CONTRACTOR TO VERIFY THE SIZE AND LOCATION OF ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING OPENINGS, INCLUDING CLEARANCE REQUIREMENTS CONTAINED IN THE RESPECTIVE DISCIPLINE DOCUMENTS FOR INSTALLATION AND IN-PLACE OPERATION OF THE RESPECTIVE EQUIPMENT OR ITEMS. UNDER NO CIRCUMSTANCES MAY PENETRATIONS BE MADE IN ANY STRUCTURAL ELEMENT AFTER FINAL PLACEMENT IN THE BUILDING STRUCTURE,

CONSULT ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND MANUFACTURERS SPEC SHEETS FOR LOCATIONS AND DIMENSIONS OF PADS, CURBS, EQUIPMENT SUPPORTS, DEPRESSIONS, INSERTS, DRIPS, REGLETS, REVEALS, FINISHES AND OTHER MISCELLANEOUS PROJECT REQUIREMENTS THAT NECESSITATE INCIDENTAL ACCOMMODATION BY THE BUILDING STRUCTURE BUT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.

THE STRUCTURE HAS BEEN DESIGNED AS UNRESTRAINED FOR THE PURPOSE OF FIRE RATING AND FIREPROOFING ASSEMBLY EVALUATIONS.

STRUCTURAL COMPONENTS HAVE NOT BEEN DESIGNED FOR VIBRATORY EQUIPMENT UNLESS NOTED OTHERWISE. PLACE VIBRATORY EQUIPMENT AND EQUIPMENT SENSITIVE TO VIBRATIONS ON VIBRATION ISOLATORS SPECIFICALLY DESIGNED FOR THE EQUIPMENT.

LATERAL BRACING FOR NON-STRUCTURAL ELEMENTS DESIGNED AND DETAILED BY COMPONENT SUPPLIERS SHALL BE DESIGNED TO APPLY LOADS DIRECTLY TO FLOOR OR ROOF DIAPHRAGMS. BRACES SHALL NOT ATTACH DIRECTLY TO BOTTOM FLANGES OF BEAMS OR BOTTOM CHORDS OF JOISTS UNLESS THE COMPONENT SUPPLIER PROVIDES

HOLES, NOTCHES, BLOCK-OUTS AND OTHER SIMILAR FIELD MODIFICATIONS TO STRUCTURAL MEMBERS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED SHOP DRAWINGS ARE NOT PERMITTED.

ADDITIONAL BRACING FROM THOSE ELEMENTS TO THE FLOOR OR ROOF DIAPHRAGM AT EACH ATTACHMENT POINT.

EXCEPT AS NOTED BELOW, ALL FUTURE EXPANSION IS ASSUMED TO BE COMPLETELY SELF SUPPORTING FOR BOTH GRAVITY AND LATERAL LOADS.

SYSTEM NOTES

► GENERAL NOTES CONT

FOUNDATIONS AND EARTHWORK REMOVE EXISTING SURFICIAL TOP SOIL AND VEGETATION FROM WITHIN THE BUILDING AREA AND A MINIMUM OF TEN FEET BEYOND. EXCAVATE MATERIAL TO PROPOSED SLAB-ON-GRADE SUBGRADE. PROOFROLL WITH A HEAVY RUBBER TIRED VEHICLE. SOILS WHICH HEAVE, PUMP, OR DO NOT READILY COMPACT SHALL BE EXCAVATED AND REPLACED

SUBGRADE PREPARATION FOR FOOTINGS SHALL CONSIST OF EXCAVATION TO REQUIRED ALLOWABLE BEARING CAPACITY SOILS AT OR NEAR DESIGN FOOTING ELEVATIONS. WHERE UNSUITABLE SOIL IS ENCOUNTERED AT NOMINAL BEARING DEPTH, SEE OVER EXCAVATION DETAIL.

ALL COMPACTION REQUIREMENTS REFER TO % OF MAXIMUM DRY DENSITY PER ASTM D-1557 MODIFIED PROCTOR. GRANULAR STRUCTURAL FILL BENEATH FOOTINGS SHALL BE PLACED IN LAYERS NO MORE THAN 8" THICK, AND EACH LAYER SHALL BE COMPACTED TO 95%. COHESIVE FILL APPROVED BY THE GEOTECHNICAL CONSULTANT SHALL BE PLACED IN LAYERS NO THICKER THAN 8", AND EACH LAYER SHALL BE COMPACTED TO 95%. MOISTURE CONDITION FILL MATERIALS AS REQUIRED TO OBTAIN PROPER COMPACTION. COHESIVE SOILS OR GRANULAR SOILS WITH A SIGNIFICANT PERCENT OF COHESIVE FINES SHALL BE CONDITIONED TO WITHIN 3% OF OPTIMUM MOISTURE CONTENT AT COMPACTION.

ALL ACTIVITIES CONCERNING PREPARATION AND VERIFICATION OF BEARING SOILS FOR SLAB-ON-GRADE AND FOOTINGS SHALL BE SUPERVISED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.

COLUMNS, PIERS, AND SPREAD FOOTINGS ARE CENTERED ON GRIDLINES UNLESS NOTED OTHERWISE. CONTINUOUS FOOTINGS ARE CENTERED ON WALLS ABOVE UNLESS NOTED OTHERWISE.

BACKFILL UNIFORMLY ON EACH SIDE OF FOUNDATION WALLS, GRADE BEAMS AND OTHER SIMILAR ELEMENTS. DO NOT BACKFILL AGAINST ANY STRUCTURAL ELEMENT UNTIL THAT ELEMENT HAS ATTAINED FULL DESIGN STRENGTH DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL TOP AND BOTTOM OF WALL IS BRACED BY FLOOR FRAMING AND SLAB-ON-GRADE.

TOP OF FOOTING ELEVATION NOTED ON DRAWINGS REPRESENT CONSIDERED ENGINEERING JUDGMENTS ABOUT PROTECTION FROM FROST AND MINIMUM DEPTH TO SOILS CAPABLE OF PROVIDING DESIGN SOIL BEARING CAPACITY. UNCERTAINTIES INHERENT IN DETERMINING THE ELEVATION OF SOILS ADEQUATE TO PROVIDE DESIGN BEARING CAPACITY MAY REQUIRE FOUNDATIONS TO BE LOWERED - IN NO CASE SHALL TOP OF FOOTING BE HIGHER THAN NOTED. A GEOTECHNICAL ENGINEER SHALL VERIFY THAT SOIL AT THE FOOTING BASE IS ADEQUATE TO PROVIDE THE REQUIRED DESIGN SOIL BEARING CAPACITY.

CONCRETE MASONRY

DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF ACI 530 - II AND ACI 530.I - II EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE NOTED.

ALL CMU SHALL BE PLACED IN RUNNING BOND. UNLESS NOTED OTHERWISE PROVIDE CONTINUOUS LADDER TYPE REINFORCEMENT WITH 9 GAUGE SIDE AND CROSS RODS AT 164 OC VERTICALLY IN ALL WALLS AND PIERS, AND AT 8" OC VERTICALLY AT PARAPETS. WHERE VERTICAL BARS ARE REQUIRED, CONSTRUCT CMU WALL TO PROVIDE A CONTINUOUS UNOBSTRUCTED CELL FROM BOTTOM TO TOP OF BAR. CELL CONTAINING A SINGLE BAR SHALL NOT BE LESS THAN 3" X 4" IN PLAN AREA.

PORTIONS OF CMU CONSTRUCTION REQUIRING STRUCTURAL FILL SHALL USE GROUT ONLY. USE OF CONCRETE FILL IN CMU CONSTRUCTION IS NOT PERMITTED. WHERE CLEARANCES AND CONGESTION PERMIT, USE COARSE GROUT WITH PEA GRAVEL AGGREGATE; OTHERWISE USE FINE GROUT.

REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL VERTICAL CONTROL JOINTS IN EXTERIOR WYTHES OF PERIMETER WALLS AND FOR EXTERIOR WALLS.

PROVIDE STEEL PIPE SLEEVES AT ALL LOCATIONS WHERE PIPING PASSES THROUGH CMU WALL.

WHERE BOND BEAMS INTERSECT AT WALL CORNERS AT DIFFERENT ELEVATIONS, RUN EACH BOND BEAM AROUND THE CORNER FOR A MINIMUM OF TWO FULL BLOCK LENGTHS BEFORE TERMINATING. WHERE BOND BEAMS ADJOIN ON THE SAME WALL AT DIFFERENT ELEVATIONS, RUN BOND BEAMS PAST ONE ANOTHER A MINIMUM OF FOUR FULL BLOCK LENGTHS BEFORE TERMINATING

CAST-IN-PLACE CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVIDIONS OF ACI 318 - 05 EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE NOTED.

REINFORCING CLEAR COVER SHALL BE AS NOTED BELOW UNLESS SPECIFICALLY NOTED OTHERWISE ON STRUCTURAL DRAWINGS.

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CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
CONCRETE EXPOSED TO EARTH OR WEATHER
  #3 - #5 BARS
  #6 - #18 BARS
CONCRETE NOT EXPOSED TO EARTH OR WEATHER
  WALLS - #3 THRU #11 BARS
  WALLS - #14 THRU #18 BARS
  STRUCTURAL SLABS - TOP, BOTTOM
  JOIST TIES AND MAIN REINFORCING - TOP, BOTTOM, SIDES
  BEAM TIES - TOP, BOTTOM, SIDES
  BEAM MAIN REINFORCING - TOP, BOTTOM, SIDES
  COLUMN TIES
  COLUMN MAIN REINFORCING
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PROVIDE (2) #5 BARS AROUND ALL OPENINGS AND (2) #5 DIAGONAL BARS AT ALL OPENING AND RE-ENTRANT CORNERS. BARS SHALL EXTEND A MINIMUM OF 24" PAST OPENING.

ALL BAR SPLICES SHALL BE CONTACT LAP SPLICED USING CLASS B TENSION LAP LENGTHS, WITH ADJACENT LAPS STAGGERED A MINIMUM OF 3'-O" UNLESS DETAILED OTHERWISE.

FIELD WELDING OF ASTM A615 REINFORCING STEEL IS NOT PERMITTED. FIELD BENDING OF REINFORCING STEEL IS NOT PERMITTED EXCEPT WHERE SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.

CORING OF COLUMNS, WALLS, BEAMS, JOISTS AND SLABS IS NOT PERMITTED. PROVIDE STEEL SLEEVES FOR ALL

PENETRATIONS AT ALL LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.

WOOD FRAMING

DESIGN AND CONSTRUCTION OF WOOD FRAMED CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE 2012 EDITION OF THE NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION, INCLUDING THE 2012 EDITION OF THE NDS SUPPLEMENT DESIGN VALUES FOR WOOD CONSTRUCTION, AND THE 2008 EDITION OF THE SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC STANDARD, EXCEPT WHERE MORE RESTRICTIVE REQUIREMENTS ARE NOTED.

USE STEEL WASHERS BETWEEN HEAD AND NUT OF BOLT AND WOOD, AND BETWEEN HEAD OF LAG SCREW AND WOOD.

WOOD SILL PLATES AND OTHER WOOD MEMBERS, INCLUDING PLYWOOD, DIRECTLY EXPOSED TO MOISTURE OR IN DIRECT CONTRACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

METAL PLATED WOOD TRUSSES

WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT EDITIONS OF "DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES" BY TRUSS PLATE INSTITUTE (TPI) AND "NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENINGS" BY NATIONAL FOREST PRODUCTS ASSOCIATION.

ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS: TOP CHORD LIVE LOAD 27 PSF (PLUS DRIFT) TOP CHORD DEAD LOAD IO PSF TYP

BOTTOM CHORD DEAD LOAD 20 PSF

BOTTOM CHORD LIVE LOAD IO PSF (NOT CONCURRENT WITH TOP CHORD)

IN ADDITION TO THE LOADS STATED ABOVE THE TRUSSES SHALL BE DESIGNED FOR ANY SNOW DRIFTING, MECHANICAL, AND/OR ANY SPECIAL LOAD CONDITIONS AS SHOWN ON STRUCTURAL PLANS AND AS REQUIRED BY THE INTERNATIONAL BUILDING CODE 2009.

ROOF TRUSSES SHALL HAVE A MAXIMUM LIVE LOAD DEFLECTION OF L/360. TOTAL LOAD DEF. L/240 (I" MAX.)

METAL PLATED WOOD TRUSSES (CONTINUED)

FABRICATION, HANDLING, STORAGE AND ERECTION SHALL BE IN ACCORDANCE WITH "TRUSS PLATE INSTITUTE RECOMMENDED PRACTICES ANS SHALL BE DONE IN A WORKMAN LIKE MANNER SO AS TO NOT DAMAGE THE TRUSSES. TRUSSES SHALL NOT BE CUT, ADDED ONTO, OR ALTERED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF THE TRUSS APPROX DESIGNER, ENGINEER, AND ARCHITECT.

WOOD TRUSS DESIGNER/SUPPLIER SHALL SUBMIT FORMAL STAMPED CALCULATIONS BY A REGISTERED ENGINEER IN THE STATE OF WISCONSIN FOR REVIEW BEFORE FABRICATION.

CONTRACTOR SHALL SUBMIT TRUSS SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING TO THE ARCHITECT.

SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

NAME, ADDRESS, PHONE NUMBER OF THE TRUSS SUPPLIER

SLOPE OR DEPTH, SPAN, AND SPACING LOCATION OF ALL JOINTS

ALL DESIGN LOADS

ADJUSTMENTS TO LUMBER AND METAL CONNECTOR PLATE VALUES FOR CONDITIONS OF USE EACH REACTION FORCE AND DIRECTION METAL CONNECTOR PLATE TYPE, SIZE, GAUGE AND DIMENSIONAL LOCATION OF EACH PLATE

LUMBER SIZE, SPECIES, AND GRADE FOR EACH TRUSS MEMBER CONNECTION REQUIREMENTS FOR TRUSS TO TRUSS GIRDER, TRUSS PLY TO PLY, AND FIELD SPLICES CAI CULATED DEFLECTION RATIO AND/OR MAXIMUM DEFLECTION FOR LIVE AND TOTAL LOADS

SPECIFY ALL TRUSS TO TRUSS CONNECTIONS AND HANGERS SPECIFY AND SHOW ALL PERMANENT TRUSS BRACING REQUIRED BY DESIGN

CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION PROCEDURES AND TEMPORARY TRUSS BRACE REQUIREMENTS DURING ERECTION IN ACCORDANCE WITH TPI'S COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALL, AND BRACING METAL PLATE CONNECTED WOOD TRUSSES (HIP-91 BOOKLET) AND THE CURRENT EDITION OF ANSI/TPI-I.

DESIGN ROOF TRUSSES TO RESIST ALL WIND LOADS INCLUDING UPLIFT AS REQUIRED BY THE INTERNATIONAL BUILDING FI

TRUSSES EXPOSED TO MOISTURE SHALL BE CONSTRUCTED OF PRESSURE TREATED WOOD AND GALVANIZED METAL PLATES.

CODE WITH WISCONSIN AMENDED I-CODE INSERTS. MINIMUM NET UPLIFT = 10 PSF. PROVIDE TIEDOWN CLIP AT EACH

TRUSS, AT EVERY POINT OF BEARING. ALL TRUSS TO TRUSS CONNECTIONS ARE TO BE DESIGNED, DETAILED, AND SUPPLIED BY THE TRUSS SUPPLIER.

COORDINATE OPEN WEB PLACEMENT WITH MECHANICAL DESIGN BUILD CONTRACTOR FOR COORDINATION OF MECHANICAL SERVICES, ETC.

TRUSS FABRICATOR SHALL FIELD VERIFY ALL SPAN DIMENSIONS BEFORE FABRICATING.

COMPONENTS AND CLADDING WIND PRESSURES (PSF)

		ROOF SLOPE									
ZONE	WIND AREA (SF)	0° T	0 7°	7° TC) 27°	27° T	O 45°	ZONE	WIND AREA (SF)		
	/ (OI)	(+)	(-)	(+)	(-)	(+)	(-)		711(L/1 (OI)	(+)	(-)
1	10	10.5	25.9	14.9	23.7	23.7	25.9	4	10	25.9	28.1
1	20	9.9	25.2	13.6	23.0	23.0	24.6	4	20	24.7	26.9
1	50	9.0	24.4	11.9	22.2	22.2	22.8	4	50	23.2	25.4
1	100	8.3	23.7	10.5	21.5	21.5	21.5	4	100	22.0	24.2
2	10	10.5	43.5	14.9	41.3	23.7	30.3	5	10	25.9	34.7
2	20	9.9	38.8	13.6	38.0	23.0	29.0	5	20	24.7	32.4
2	50	9.0	32.7	11.9	33.6	22.2	27.2	5	50	23.2	29.3
2	100	8.3	28.1	10.5	30.3	21.5	25.9	5	100	22.0	26.9
3	10	10.5	65.4	14.9	61.0	23.7	30.3	, , , , , , , , , , , , , , , , , , ,	DJUSTMENT FACTOR		
3	20	9.9	54.2	13.6	57.1	23.0	29.0	MEAN RO	OF E	EXPOSURE	
3	50	9.0	39.3	11.9	51.8	22.2	27.2	HEIGHT (F			С
3	100	8.3	28.1	10.5	47.9	21.5	25.9	15	1.00		1.21
	,	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	25001125	011000				20	1.00		1.29
	(-	O' WIND (- O'	KESSURE VERHANG		•			25	1.00		1.35
	WIND			ROOF :	SLOPE			30	1.00		1.40
LOCATION	AREA (SF)	0° TO 7° 7° TO 27°				27° TO 45°		35	1.05	1.45	
		ZONE 2	ZONE 3	ZONE 2	ZONE 3	ZONE 2	ZONE 3	40	1.09		1.49
OVERHANG	10	37.2	61.4	48.2	80.9	43.7	43.7	45	1.12		1.53

OVERHANG	50	35.7	30.7	48.2	62.6	40.7	40.7	55	1.19	1.59
OVERHANG	100	35.1	17.4	48.2	54.7	39.4	39.4	60	1.22	1.62
NOTES: 1) BASED ON SI	IMPLIFIED PRO	VISIONS I	FOR ENCI	OSED RE	:GULAR-S	HAPED BI	UILDINGS	WITH MEAN R	OOF HEIGHT LI	ESS THAN
OR EQUAL TO	O 60'-0" (ASCE	7-10) ASS	UMING 12	0 MPH WI	ND, EXPO	SURE B,	l=1.0, Kzt	= 1.0 AT MEAN	ROOF HEIGH	Γ = 30'-0".

MULTIPLY TABLE VALUES BY THE TABLES VALUES ABOVE IMMEDIATE RIGHT AT OTHER MEAN ROOF HEIGHTS AND BY

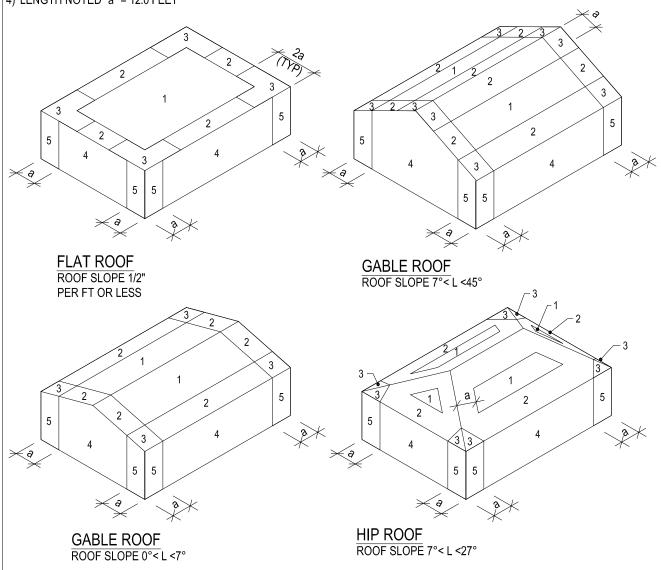
OVERHANG 20 36.6 48.1 48.2 73.0 42.4 42.4 50 1.16 1.56

IMPORTANCE FACTOR IF OTHER THAN I = 1.0. ?) (+) = POSITIVE (INWARD) PRESSURE. (-) = NEGATIVE (OUTWARD) PRESSURE.

) FOR EFFECTIVE MEMBER AREAS NOT SPECIFICALLY LISTED, INTERPOLATE OR USE LARGEST VALUE OF WIND PRESSURE/ SUCTION NOTED. DO NOT USE 1/3 STRESS INCREASE FOR MEMBER DESIGN WITH VALUES NOTED IN THIS TABLE.

4) LENGTH NOTED "a" = 12.0 FEET

SF = SQUARE FEET



ARCHITECTURE ENGINEERING INTERIOR DESIGN

<u>STANDARD ABBREVIATIONS:</u>

ARCH

CMU

COL

CONC

CONT

CS

DBA

DEMO

DIA

FWFF

EXT

FLG

FLR

FND

FTG

FRMG

GALV

GLULAM

HORIZ

HVAC

JBE

LLBB

LSB

LVL

LM

MAX

MECH

MFR

MIN

MO

NTS

OPNG

OPP

OSL

PCI

PDF

PLBG

PROJ

PSF

RD

REF

REINF

REM

RTU

SCHED

SLBB

50G

SPA

SPEC

SQ

STD

UNO

VIF

VWA

ML

VERT

MISC

EXTG or

ANCHOR BOLT (ROD)

BOTTOM OF FOOTING

AIR HANDLING UNIT

APPROXIMATELY

ARCHITECTURAL

BOTTOM CHORD

BUILDING

BEARING

BETWEEN

COLUMN

CONCRETE

DIAMETER

DRAWING

DEAD LOAD

EACH FACE

ELEVATION

ELECTRICAL

EDGE STRIP

ENGINEER

EACH WAY

EXPANSION

EXTERIOR

FLOOR DRAIN

FOUNDATION

FIELD VERIFY

GALVANIZED

GIRDER TRUSS

HORIZONTAL

INSIDE FACE

INTERIOR

ANGLE

POUNDS

LIVE LOAD

LOW POINT

LIGHTWEIGHT

LONG WAY

MECHANICAL

MANUFACTURER

MISCELLANEOUS

MIDDLE STRIP

NOT APPLICABLE

NOT TO SCALE

OUTSIDE FACE

ON CENTER

NOT IN CONTRACT

OUTSIDE DIAMETER

OUTSTANDING LEG

PRECAST / PRESTRESSED

POUNDS PER CUBIC INCH

POUNDS PER CUBIC FOOT

POUNDS PER LINEAR FOOT

POUNDS PER SQUARE INCH

SHORT LEGS BACK TO BACK

PRE (POST) -TENSIONED

MASONRY OPENING

MAXIMUM

MINIMUM

NOMINAL

OPENING

PLATE

PLUMBING

PROJECTION

ROOF DRAIN

REINFORCE(D)

ROOF TOP UNIT SLIP CRITICAL

REMAINDER

SCHEDULE

SHEET

SIMILAR

SQUARE

STANDARD

SHORT WAY

SNOW LOAD

SLAB-ON-GRADE

SPAC(ES)(ED)(ING)

SPECIFICATION(S)

STAINLESS STEEL

TOP OF FOOTING

TENSION CONTROL

THICK (NESS) (ENED)

UNLESS NOTED OTHERWISE

VERIFY WITH ARCHITECT

TOP OF LEDGE

TOP OF PIER

TOP OF STEEL TOP OF WALL

TOP CHORD

TOTAL LOAD

VERIFY IN FIELD

WORKING POINT

WELDED WIRE FABRIC

TYPICAL

VERTICAL

WIND LOAD

REFERENCE

POUNDS PER CUBIC

OPPOSITE

HIGH POINT

GENERAL CONTRACTOR

HEATING, VENTILATING,

INSIDE DIAMETER

KNOCKOUT PANEL

AND AIR CONDITIONING HEADED WELDED STUD(S)

JOIST BEARING ELEVATION

KIPS PER SQUARE INCH

LONG LEG BACK TO BACK

LAMINATED STRAND LUMBER

LAMINATED VENEER LUMBER

LONG LEG HORIZONTAL

LONG LEG VERTICAL

CLASS 'B' BAR LAP

GLUE-LAMINATED BEAM(S)

FXISTING

FLANGE

FOOTING

FRAMING

FUTURE

GAUGE

HOOK

FLOOR

FQUAL

EDGE OF DECK

EDGE OF SLAB

EXPANSION JOINT

EACH WAY EACH FACE

CONTINUOUS

COLUMN STRIP

CATCH BASIN

CENTER LINE

CAST-IN-PLACE

CONTROL JOINT

CLEAR (DISTANCE)

CONCRETE MASONRY UNIT

DEFORMED BAR ANCHOR

DEMOLITION / DEMOLISH

OR DECK BEARING ANGLE

DECK BEARING ELEVATION

BOTTOM OF STEEL

ALTERNATE

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Consultant: 5250 E. Terrace Dr., Ste. 108

job number: 1180185

Madison, WI 53718-8345 (608) 467-3034

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HSR Project Number: 18003

Project Date: **MAY 2018**

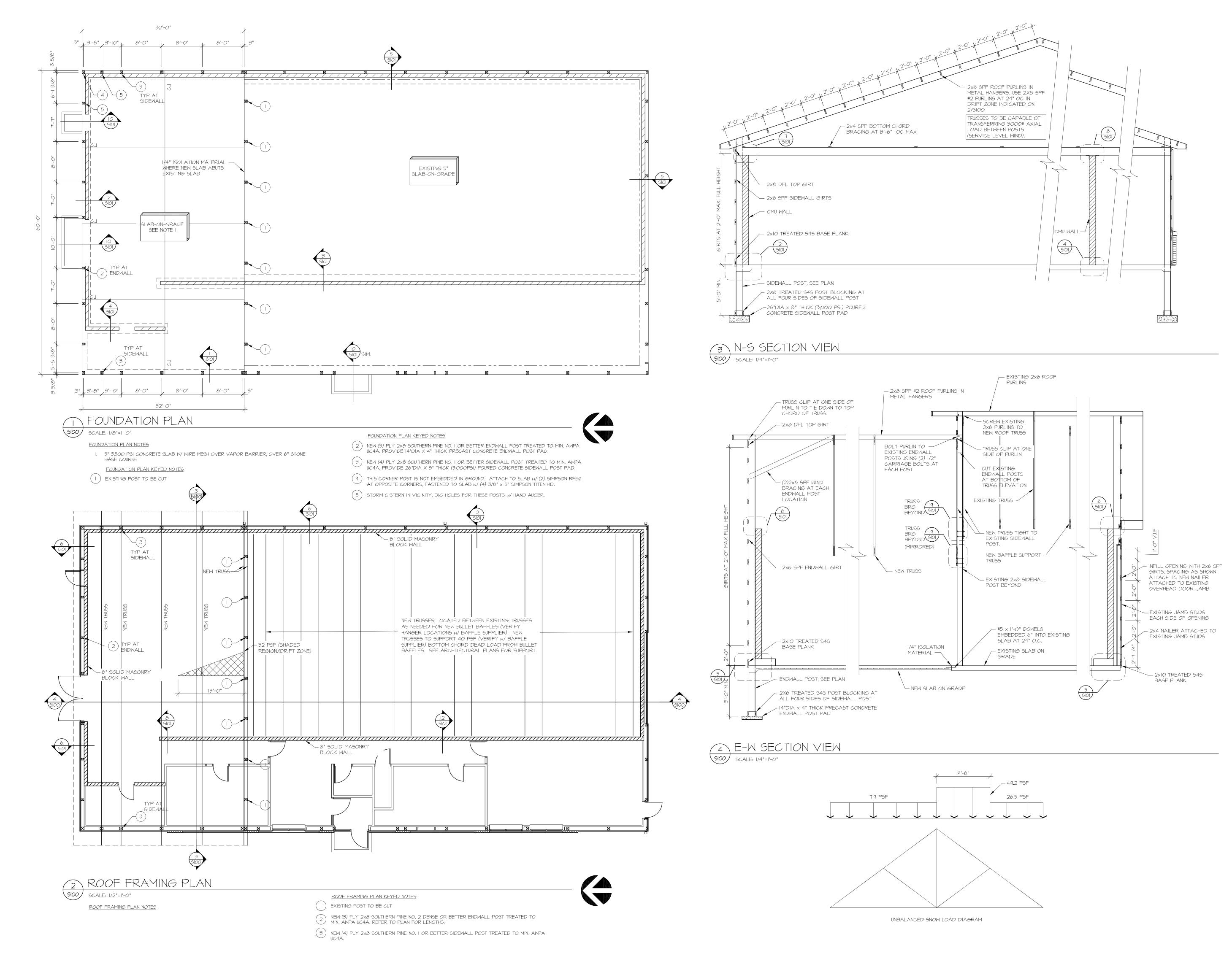
D.CONNER

Key Plan:

Description Date

Graphic Scale: **VARIES**

Last Update:



ARCHITECTURE ENGINEERING INTERIOR DESIGN HSR ASSOCIATES INC.

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100 MILWAUKEE STREET

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job number 1180185

HSR Project Number:

18003 Project Date:

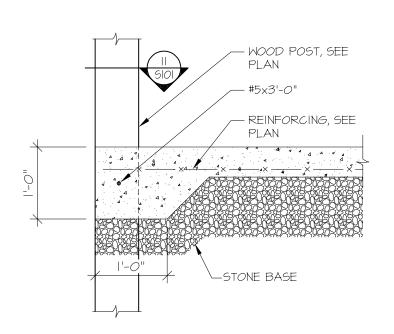
MAY 2018

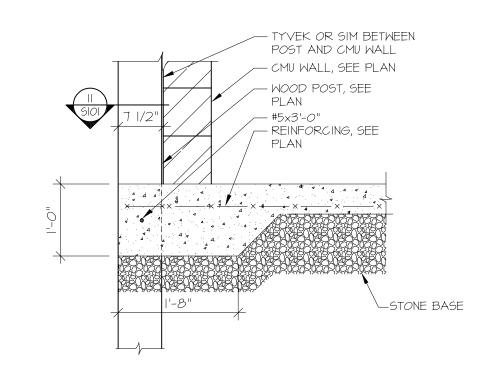
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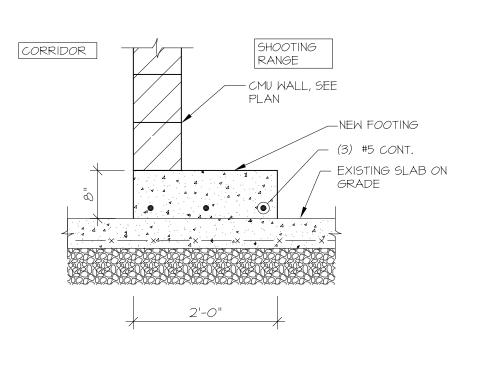
Revisions: Description Graphic Scale: **VARIES**

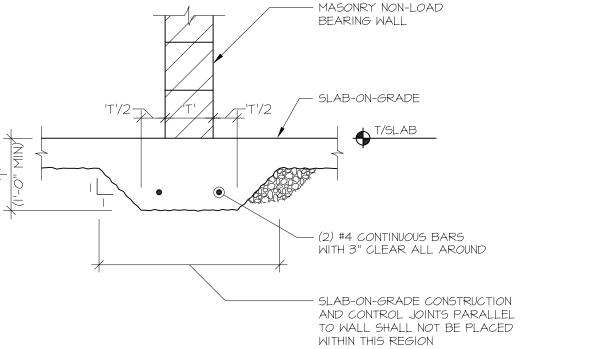
Last Update:

S100







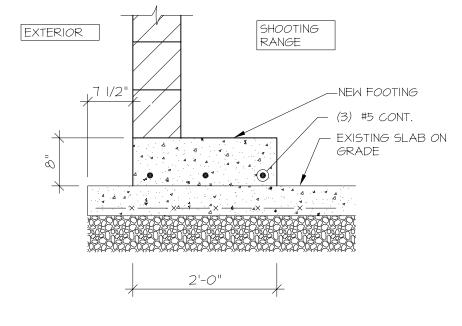


- EXISTING POST

- NEW TRUSS CHORD

LOWEST CHORD.

- AFTER TRUSSES INSTALLED AND ANCHORED TO POST, CUT POST OFF BENEATH



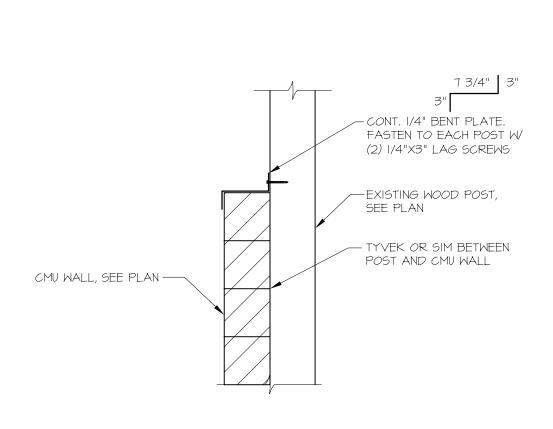


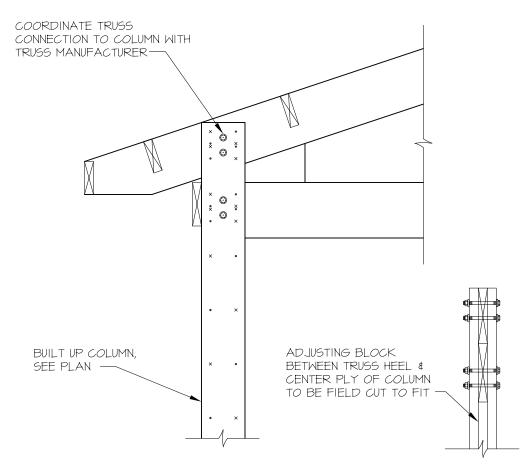
THICKENED SLAB AT PERIMETER SIOI SCALE: 3/4" = 1'-0"

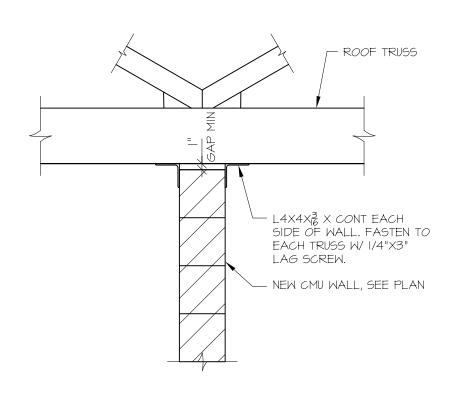
NEW CMU WALL ON EXISTING SLAB SIOI SCALE: 3/4" = 1'-0"

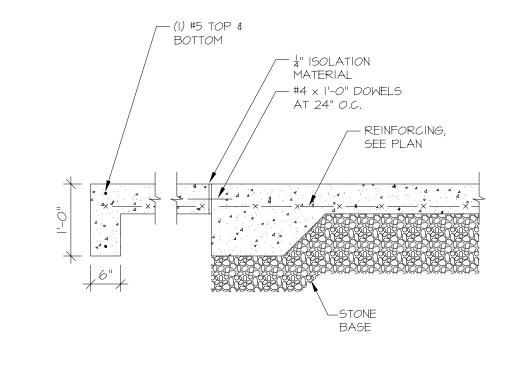
THICKENED SLAB FOR 4 NON-LOAD BEARING WALLS SIOI | SCALE: 3/4" = 1'-0"

NEW CMU WALL ON 5 EXISTING SLAB AT PERIMETER SIOI | SCALE: 3/4" = 1'-0"









NEW CMU WALL

6 TOP ATTACHMENT AT POST SIOI SCALE: 3/4" = 1'-0"

SIOI SCALE: 3/4" = 1'-0"

NEW CMU WALL TOP ATTACHMENT 8 PERPENDICULAR TO TRUSS SIOI SCALE: 3/4" = 1'-0"

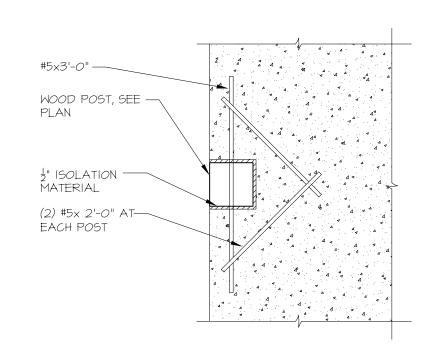
A NEW TRUSS TO EXISTING POST SIOI | SCALE: 3/4" = 1'-0"

BOLT EACH CHORD —

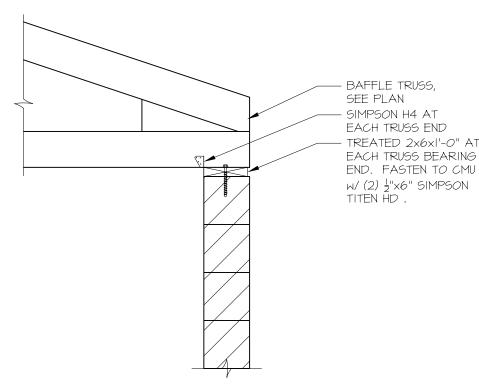
TO EXISTING POST W/

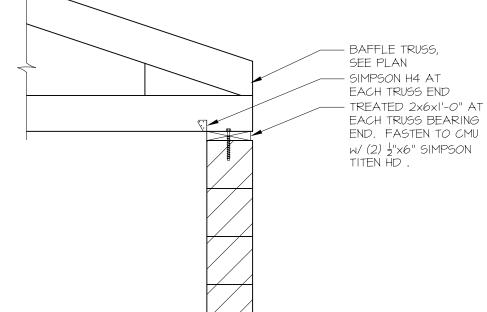
(2) ½" CARRIAGE BOLTS (STAGGERED)

O SECTION AT STOOP

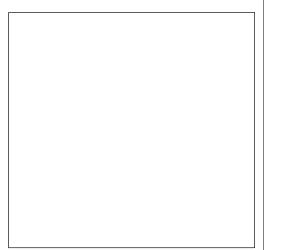


PLAN VIEW AT POST SIOI SCALE: 3/4" = 1'-0"









ARCHITECTURE

ENGINEERING

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TECH. COLLEGE HOOTING RANGE

WESTERN INDOOR SE

HSR Project Number:

MAY 2018

D.CONNER

Project Date:

Drawn By:

No.	Description	Date
Graphic	Scale:	

Last Update:

S101



