STRUCTURAL DESIGN CRITERIA

 THESE NOTES SUPPLEMENT THE SPECIFICATIONS. PROJECT SPECIFICATIONS SHALL BE REFERRED TO FOR CLARIFICATIONS AND ADDITIONAL INFORMATION. IN CASE OF CONFLICT BETWEEN PROJECT SPECIFICATIONS AND THESE NOTES, THESE NOTES SHALL GOVERN.

2. GOVERNING BUILDING CODE: 2015 IBC AS AMENDED BY THE STATE OF WISCONSIN.

3. DE

3. DES	SIGN LOADS	10 00DL. 2010	, ibo no i	WILINDED	DI IIIE	017(12 01	WIGGORGIIV.			
	LIVE LOAD									
	TYPICAL MEZZANI	SLAB ON GRA	DE						100 100) psf) psf
	ROOF LIVE LOA	.D								
	SNOW	IPOSED DEAD							30) psf+
	TOP CHO	ORD CHORD							10 10) psf) psf
	SNOW LOADS) SNOW (Pg)							30) nef
	SNOW LO	DAD IMPORTAI DAD EXPOSUR	NCE FAC	TOR (Is)					1.0)
	ROOF TH BASE RO	HERMAL LOAD OOF SNOW LOAD	FACTOR AD AT BU	(Ct) AT BU ILDING	IILDING			 	1.1 21	psf
	WIND LOADS									
	BUILDING	IND SPEED G OCCUPANCY AD IMPORTAN	CATEGO)RY	. – – – – -				I	l .
	WIND EX	POSURE CATE L PRESSURE (GORY						C	;
	MAIN WIND FO	RCE - RESISTI	NG SYST	EM:						
	MWFRS S CA	SELECTED ED LCULATED HO	GE STRIP RIZONTA	L LOADS:) ft
	TD	ANSVERSE CA	SE #1·	WALL			WALL		ONE ROOF 13.2 psf	
	TRA	ANSVERSE CA NGITUDINAL:		24.0 psf 24.0 psf		16.5 psf 16.5 psf			13.2 psf 13.2 psf	
		LCULATED VE	RTICAL LO	OADS:		·	·		·	
	 -	ANSVERSE CA	۷ ۱	VINDWAR	ND ZONI D L	EEWARD	WINDWAF	ERIOR ZO	LEEWARD	
	TR/	ANSVERSE CA ANSVERSE CA NGITUDINAL:	SE #1: SE #2:	9.3 psf		-14.7 psi -7.2 psf -14.7 nsf	8.0 psf		-12.5 psi -5.2 psf -11.3 psf	
	COMPONENTS			20.7 poi		11.1 poi	17.0 por		11.0 poi	
	(SEE ASC COMPON	CE/SEI 7-SECT IENT AND CLA	ON 6 FOR DDING SE	R ZONE DE ELECTED	EFINITION EDGE ST	NS AND DI. RIP DISTA	AGRAMS) .NCE, (A)		5.5	5 ft
		IBUTARY WIND		REAS	10 ft²	;	50 ft²	100 ft²		
	RO	ZONE 1 (NE ZONE 2 (NE	GATIVE)		19.7 psf 23.0 psf	17 20		16.3 psf 19.7 psf		
	WA	ZONE 3 (NE ALLS:	GATIVE)		23.0 psf	20	.7 psf	19.7 psf		
		ZONE 4 (NE ZONE 5 (NE ZONE 4 & 5	GATIVE) GATIVE) (NEGATI)	/F)	21.3 psf 26.3 psf	19 22 17	.3 psf .3 psf .6 psf	18.4 psf 20.4 psf 16.7 psf		
	SEISMIC LOAD	S		,				·		
	SEISMIC	USE GROUP / IMPORTANCE	FACTOR	(le)					1.0)
	SPECTRA	SITE CLASS AL RESPONSE AL RESPONSE	COEFFIC	IENT (Sds)				0.048	3
	SEISMIC	DESIGN CATE	GORY						0.002 A	١
	BE./ LIG	ARING WALL S GHT FRAMED W	YSTEM /ALL SHE	ATHED W		D STRUC	TURAL PANEI	LS RATE	D	
	FO	R SHEAR RESI R		Ωο = 3.0	Cd = 4	.0				
		S PROCEDURE		RCE PRO	CEDURE					
4. FOL	INDATIONS AND	EARTHWORK								
F 001	ALLOWABLE S	OIL BEARING F	PRESSUR	E FOR FO	OTINGS-				4,000) psf
5. CON	NCRETE MINIMUM 28 DA FOOTING	AY COMPRESS							4.000) psi
	PIERS, W SLAB-ON	/ALLS I-GRADE (INTE	 RIOR)						4,000 3.500) psi) psi
	SLAB-ON	I-GRADE (EXTE	ERIOR)		- — — — — -				4,500) psi
		D STEEL REIN TE CAST AGAI TE EXPOSED	NST AND	PERMAN		XPOSED T	O EARTH		3'	•
	#5	BARS AND SM BARS AND LAF	ALLER						1 1/2' 2'	' '
		TE NOT EXPO				ONTACT W	ITH GROUNE)	1'	•
	CONCRETE RE ALL DEFO	EINFORCEMEN ORMED MILD S WIRE FABRIC	STEEL						60,000) psi) psi
6. CON	ICRETE MASONF								,	'
		Y (NORMAL W								
	GROUT: I MINIMUM	MIN COMPRES 1 BLOCK COMF	SIVE STE PRESSIVE	KENGTH A STRENG	1 28 DAY	S MEETIN	G ASIM C476)	3,000 2,600	psi psi
7. STR	UCTURAL STEEL STRUCTURAL S	STEEL YIELD S	STRENGT	H (Fy)						
	TUBES WF BEAN	 ИS							50,000) psi
		JMNS OR STANDARE							•	•
	BOLTS FO ANCHOR	OR SINGLE SH	EAR TAB	CONNEC.	TIONS			-3/4" DIA	METER A325 F1554	5 -
	WELDING	G ELECTRODE	S						E70)
8 MIS	CELLANEOUS									

8. MISCELLANEOUS

VERIFY OPENINGS THROUGH FLOOR AND WALLS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS. CHANGES IN SIZE, LOCATION OR NUMBER OF OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS.

GENERAL NOTES APPLY TO ALL SHEETS

- 1. CONTRACTOR TO PROVIDE DRAFT STOPPING IN ATTIC. MAXIMUM AREA OF SUBDIVIDE ATTIC AREA IS 3000 SF CONTRACTOR TO COORDINATE LOCATION OF DRAFT STOPPING WITH ARCHITECT AND TRUSS SHOP DRAWINGS PRIOR TO START OF CONSTRUCTION. PROVIDE AN ATTIC ACCESS PANEL INTO EACH ATTIC COMPARTMENT. MINIMUM OPENING SIZE OF 20" x 30" COORDINATE LOCATION WITH ARCHITECT. DRAFT STOPPING TO EXTEND TO FASCIA AT OVERHANGS.
- 2. SECURE TRUSSES AT EACH BEARING WITH SIMPSON H2.5A MIN.
- 3. CONTRACTOR TO SUBMIT TRUSS SHOP DRAWINGS TO ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.

GENERAL

- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND
- 2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL BEAM, COLUMN, SUPPORT FLOOR, LOAD BEARING WALL, FOOTING, OR FOUNDATION WALL WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ ENGINEER. OPENINGS IN NON-LOAD BEARING WALLS REQUIRE THE ARCHITECT'S APPROVAL.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- 4. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
- 5. FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR RATING REQUIREMENTS, FIREPROOFING METHODS AND MATERIALS.
- 6. ALL SECTIONS, DETAIL AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.
- 7. WHEN CONFLICTS ARE NOTED ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE A/E FOR RESOLUTION PRIOR TO FABRICATION OR INSTALLATION.

FOUNDATION NOTES

- 1. GEOTECHNICAL INFORMATION TAKEN FROM: GEOTECHNICAL EXPLORATION REPORT C23051-6.
- 2. THE OWNER SHALL RETAIN A SOILS ENGINEERING FIRM TO MONITOR PROPER SUBGRADE PREPARATIONS AND TO OVERSEE THE TESTING AND COMPACTION OF COMPACTED FILL MATERIAL.
- 3. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES BEFORE FOUNDATION EXCAVATION IF UNDERGROUND UTILITY CONFLICTS ARE DISCOVERED BEFORE OR ENCOUNTERED DURING EXCAVATION, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
- 4. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ANY EXISTING FOUNDATIONS.
- 5. BEFORE PLACING FOOTINGS, FOUNDATIONS, GRADE BEAMS, OR SLAB-ON-GRADE, THE SUB-GRADE SHALL BE PREPARED AND INSPECTED AS REQUIRED BY THE SPECIFICATIONS AND THE DRAWINGS.
- 6. REINFORCE ALL FOUNDATION WALLS AND FOOTINGS AS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL
- 7. CONTROL JOINTS IN THE CAST-IN-PLACE CONCRETE FOUNDATION WALLS SHALL BE PLACED AT NOT TO EXCEED 20' OC OR AS LOCATED ON THE DRAWINGS.
- 8. PERIMETER FOUNDATION WALL INSULATION IS NOT SHOWN ON THE FOUNDATION DETAILS. SEE
- ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- 9. SEE SPECIFICATIONS FOR FREE DRAINING BACKFILL BENEATH ALL CONCRETE WALKS AND SLABS ADJACENT TO
- 10. CONTRACTOR NOTE: THE BASE OF ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER AND LOOSE SOIL PRIOR TO PLACING CONCRETE. CARE SHOULD BE TAKEN DURING EXCAVATION AND CONSTRUCTION TO MINIMIZE DISTURBANCE OF THE BEARING SOILS. THE CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION TO PREVENT EXCESSIVE DRYING OR WETTING OF THE SOIL.

MASONRY NOTES

- 1. ALL MASONRY WALLS ARE TO HAVE HORIZONTAL REINFORCEMENT WHICH DOES NOT EXCEED 16 INCHES ON CENTER VERTICALLY. SEE SPECIFICATIONS FOR INFORMATION RELATING TO CONCRETE BLOCK, BRICK, AND WALL REINFORCING.
- 2. ALL VERTICAL REINFORCING STEEL IN MASONRY WALLS ARE TO COMPLY WITH ASTM A615, GRADE 60. LAPS SHALL BE 48 BAR DIAMETERS (12" MINIMUM)
- 3. PROVIDE SPLICE BARS FOR ALL BOND BEAM REINFORCING AT ALL CORNERS. SPLICE BAR TO BE THE SAME SIZE AS BARS IN THE BOND BEAM. LAPS SHALL BE 50 BAR DIAMETER.
- 4. WHERE MASONRY IS APPLIED ADJACENT TO STEEL MEMBERS (BEAMS AND COLUMNS) PROVIDE ANCHORING
- 5. REFER TO ARCHITECTURAL PLANS FOR ROUGH OPENING LOCATIONS, SIZES, AND ELEVATIONS.
- 6. USE SIMPSON TITEN HD OR APPROVED EQUAL TYPE ANCHORS IN CMU WALL PARTITIONS.
- 7. ALL NON-STRUCTURAL CMU WALLS SHALL BE REINFORCED WITH A #3 VERTICAL BAR AT 48" OC WITH THAT CMU CORE GROUTED AND HORIZONTAL JOINT REINFORCEMENT AT 16" OC THE BOTTOM TWO COURSES SHALL BE GROUTED SOLID. PROVIDE CONTINUOUS BOND BEAM AT TOP OF WALL WITH 2 #4's CONTINUOUS GROUT BOND BEAM SOLID. PROVIDE #3 DOWEL AT 48" OC MATCH VERTICAL BAR, LAP 50 BAR DIAMETERS. PROVIDE LINTEL BLOCK AS BOND BEAM WITH (2) #5 x CONT, AND 8" BEARING EACH END. TYPICAL UNLESS NOTED OTHERWISE.
- 8. CONSTRUCTION BRACING FOR MASONRY WALLS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. MASONRY SUBMITTALS SHALL CONTAIN A LETTER SEALED BY THE ENGINEER AND SHALL BE ISSUED TO THE OWNER AFTER SUBMITTAL REVIEW AND PRIOR TO STARTING MASONRY CONSTRUCTION.

COLD FORMED TRUSS NOTES

- 1. TRUSS FABRICATOR SHALL DESIGN TRUSSES FOR LOADS SPECIFIED ON PLANS IN CONFORMANCE WITH "QUALITY CONTROL MANUAL" BY TPI. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEAD LOADS RESULTING FROM DORMERS AND OTHER MISCELLANEOUS FRAMING. ALL TRUSSES SHALL BE DESIGNED FOR A MINIMUM OF 30 PSF LIVE LOAD PLUS 10 psf DEAD LOAD.
- 2. LIVE LOAD IS ON A HORIZONTAL PROJECTION OTHER LIVE LOADS SHOWN ON THE DRAWINGS ARE IN ADDITION TO THESE DESIGNATED LOADS.
- 3. CHECK VERTICALLY PROJECTED ELEMENTS FOR DESIGN WIND LOAD.
- 4. DESIGN TRUSSES TO RESIST A NET UPLIFT OF 10 PSF.
- 5. SUBMIT SHOP DRAWINGS AND CALCULATIONS PRIOR TO FABRICATION.
- 6. CONFORM TO TPI SPECIFICATIONS.
- 7. FLOOR TRUSS LL DEFLECTION SHALL NOT EXCEED L/480.
- 8. ROOF TRUSS LL DEFLECTION SHALL NOT EXCEED L/360.
- 9. PERMANENT BRACING NOT SHOWN ON PLANS, WHICH IS REQUIRED FOR STRENGTH AND STABILITY OF TRUSS MEMBERS, SHALL BE DESIGNED AND PROVIDED BY TRUSS SUPPLIER.
- 10. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE (ROOF/FLOOR) DECKING. ALL ROOF TRUSS WEB MEMBERS SHALL BE BRACED AT 4'-0" OC UNLESS CALCULATIONS SHOW OTHERWISE.
- 11. TEMPORARY BRACING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. PROVIDE IN ACCORDANCE WITH TPI GUIDELILNES.
- 12. PROVIDE 24" WIDE VIERENDEEL PANEL AT CENTER OF EACH PARALLEL CHORD TRUSS.

STRUCTURAL STEEL NOTES

- 1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
- 2. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN",
- 3. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID AWS CERTIFICATES IN THE TYPE OF WELD
- 4. SHOP CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED OR WELDED. FIELD CONNECTIONS SHALL BE BOLTED UNLESS SPECIFICALLY DETAILED OTHERWISE.
- 5. DESIGN IN ACCORDANCE WITH GUIDE DETAILS AND REACTIONS

UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.

WELDED.

- 6. USE A325N BOLTS UNLESS NOTED OTHERWISE.
- 7. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
- ALL BEAM COPES MUST BE MADE TO A RADIUS (1" MINIMUM). ALL BUTT AND FULL PENETRATION WELDS SHALL BE MADE USING RUN OFF TABS WHICH SHALL BE TRIMMED FLUSH AND GROUND SMOOTH AFTER WELD IS COMPLETED.
- 9. ALL WELDS INDICATED SHALL MEET THE MINIMUM WELD SIZE SPECIFIED BY THE CURRENT AISC MANUAL OF STEEL DESIGN. (SINGLE PASS AS REQUIRED).
- 10. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
- 11. PROVIDE ANY NECESSARY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE BUILDING
- 12. INSTALL EXPANSION BOLTS IN ACCORDANCE WITH THE ICBO REPORT RECOMMENDATIONS.
- 13. ALL ELEVATOR GUIDE BEAMS SHALL BE S8x18.4 UNLESS NOTED OTHERWISE. SLOPE TO MATCH BEAM SLOPE.
- 14. STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR MADISON, WI 53715

MILWAUKEE | MADISON | CHICAGO



www.otie.com Job Number 2023037 Office 608.243.6470 Fax 608.241.3914 5100 Eastpark Blvd, Suite 300, Madison, Wisconsin 53718

Contractors are responsible for the means, methods, including, but not limited to, temporary supports, shoring,

WARNER PARK COMMUNITY RECREATION CENTER **EXPANSION**

1625 NORTHPORT DRIVE MADISON, WI 53704

CITY OF MADISON PARKS DIVISION 330 EAST LAKESIDE STREET

PROJECT NUMBER

ISSUED FOR:

5/16/2024 **BID SET**

223471.00

DATE

REVISION FOR:

NO. DESCRIPTION

DRAWN BY

CHECKED BY

STRUCTURAL NOTES

ABBREVIATION LIST

ADDE	REVIATION LIST
AB AHU ALT ARCH BLDG BRG BP(##) CF CIP CJ CLR CMU CONC CONC CONT DBA DEMO DIA DWG EOD EOS	ANCHOR BOLT (ROD) AIR HANDLING UNIT ALTERNATE ARCHITECTURAL BUILDING BEARING BASE PLATE CALL-OUT COLD-FORMED CAST-IN-PLACE CONTROL JOINT CENTER LINE CLEAR (DISTANCE) CONCRETE MASONRY UNIT COLUMN CONCRETE CONTINUOUS DEFORMED BAR ANCHOR DEMOLITION / DEMOLISH DIAMETER DRAWING EDGE OF DECK EDGE OF SLAB
DWG EOD EOS EF EJ	DRAWING EDGE OF DECK EDGE OF SLAB EACH FACE EXPANSION JOINT
EQ EW EWEF EXP EXT	ELEVATION EQUAL EACH WAY EACH WAY EACH FACE EXPANSION EXTERIOR EXISTING
FD FLR FV F(##) GA	FLOOR DRAIN FLOOR FIELD VERIFY FOOTING CALL-OUT GAUGE
HORIZ HP	GENERAL CONTRACTOR GLUE-LAMINATED BEAM(S) HOOK HORIZONTAL HIGH POINT
HWS	HEADED WELDED STUD(S)

INSIDE FACE

LIGHTWEIGHT

LONG WAY

MECHANICAL

MANUFACTURER MINIMUM

MISCELLANEOUS

NOT APPLICABLE

NOT TO SCALE

OUTSIDE FACE

PRECAST / PRESTRESSED

POUNDS PER CUBIC INCH

POUNDS PER CUBIC FOOT

POUNDS PER CUBIC FOOT

PRE (POST) -TENSIONED

POUNDS PER SQUARE INCH

POUNDS PER LINEAR FOOT

ON CENTER

OPENING

PLATE

OPPOSITE

PROJECTION

PIER CALL-OUT

REINFORC(ED)(ING)

ROOF TOP UNIT

SLAB-ON-GRADE SPAC(ES)(ED)(ING) SPECIFICATION(S)

STAINLESS STEEL SHORT WAY TOP OF LEDGE TOP OF PIER TOP OF WALL

UNLESS NOTED OTHERWISE

WELDED WIRE FABRIC

ROOF DRAIN

SIMILAR

SQUARE

TYPICAL

VERTICAL **WORKING POINT**

MAXIMUM

JOIST BEARING ELEVATION

LAMINATED STRAND LUMBER

LAMINATED VENEER LUMBER

LONG LEG HORIZONTAL

LONG LEG VERTICAL

INTERIOR

JBE

LLH

LLV

LSL LTWT

LVL

LW

MAX

MECH

MFR MIN

MISC

NA

NTS

OC

OF

OPNG

OPP PC

PCI PDF

PLF PROJ

PSF

P(#) RD

RTU SIM SOG SPA SPEC SQ

TW

TYP UNO VERT WP

REINF

	LINTEL SCHED	JLE
LENGTH	SIZE AND REINFORCING	NOTE/ REMARKS
0'-4"	8" W x 8" H BOND BM W/ (2) #5 BOT	SEE ARCH FOR LOCATIONS
4'-8"	8" W x 16" H BOND BM W/ (2) #5 BOT	SEE ARCH FOR LOCATIONS

FOUNDATION LEGEND

EXTG COLUMN GRID MARK ——— A

99'-0"

____100'-0"

TL = 99'-6"

F40

P1

^(2-0)~

96'-0"

99'-0"

100'-0"

NEW COLUMN GRID MARK -CONCRETE PAD FOOTING -

COLUMN FOOTING MARK

CONCRETE PIER MARK

TOP OF WALL FOOTING

TOP OF LEDGE ELEVATION -

WALL FOOTING STEP MARKER

TOP OF WALL ELEVATION -

STRIP FOOTING MARK

SLAB-ON-GRADE JOINT

TOP OF EXISTING WALL

FOOTING ELEVATION -

MASONRY WALL AND

CONCRETE FOOTING

ELEVATION -

TOP OF PIER ELEVATION -

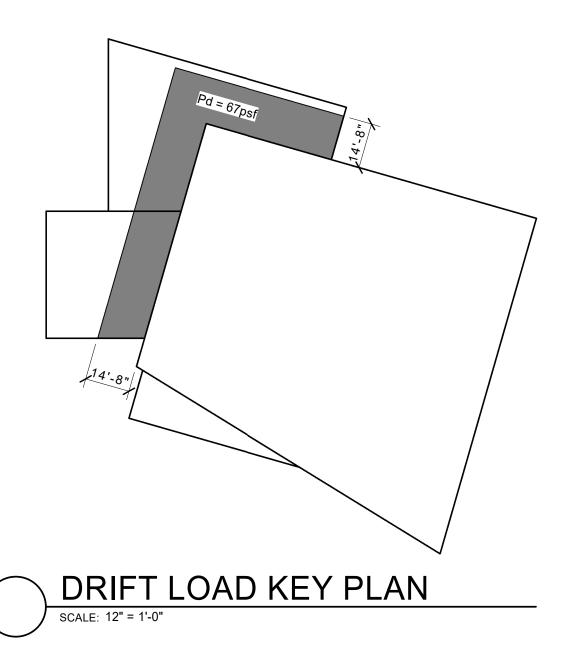
TOP OF FOOTING ELEVATION

CONCRETE WALL AND FOOTING

COLUMN -

CONCRETE PIER -

- 1. AT NEW WALLS, REINFORCE AT BEARING WITH (1) #5 VERT FULL HEIGHT OF WALL FROM FLOOR TO FLOOR OR FLOOR TO ROOF.
- 2. AT EXISTING WALLS, BEAR LINTEL ON MIN (2) COURSES GROUTED
- 3. AT EXTERIOR OPENINGS, PROVIDE GALV BENT PL5/16"x7 1/2"x7 1/2" x CONT TO OPENING CORNERS.
- 4. 8" MIN BEARING AT ENDS.



	WALL FOOTING SCHEDULE				
	CONTINU	OUS FOOTING DIMENSIONS			
MARK	WIDTH	THICKNESS	FOOTING REINFORCEMENT	REMARKS	
W24	2' - 4"	1' - 0"	(3) #5; B, CONT		
W28	2' - 8"	1' - 0"	(3) #6; B, CONT		
W30	3' - 0"	1' - 0"	(3) #6; B, CONT		
W90	9' - 0"	1' - 8"	(7) @ 12" T&B, EW		

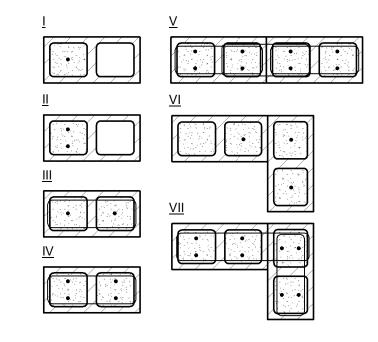
MA	SONRY	WALL RE	INFORCE	MENT SCHEDULE
MARK	WALL	REINFOR	CEMENT	NOTES
WARK	TYPE	VERTICAL	HORIZONTAL	NOTES
$\langle A \rangle$	12" CMU	#6 AT 16" OC	HJR AT 16" OC	BOND BEAM WITH (1) #5 AT 40" OC AND AT BOTTOM OF WALL
$\langle B \rangle$	12" CMU	#8 AT 8" OC	HJR AT 16" OC	VERTICAL REINFORCING TO BE AT EXTERIOR FACE OF CMU
(C)	8" CMU	#6 AT 16" OC	HJR AT 16" OC	BOND BEAM WITH (1) #5 AT 40" OC AND AT BOTTOM OF WALL

NOTES:

- 1. SEE ARCHITECTURAL WALL TYPES FOR ADDITIONAL REQUIREMENTS.
- 2. REINFORCEMENT IS TO BE LOCATED IN CENTER OF WALL UNO.
- 3. PROVIDE CONTINUOUS BOND BEAM WITH (2) #5 AT ALL BEARING ELEVATIONS AND OVER WINDOWS DOORS AND OTHER OPENINGS UNO.
- 4. PROVIDE HORIZONTAL REINFORCEMENT INTO INTERSECTING WALLS AT 16" OC VERTICAL. EXTENT 30" EACH DIRECTION WITH PREFABRICATED "T" AND "L" SECTION TYP.
- 5. SEE GENERAL MASONRY NOTES ON SHEET S001 FOR NON LOAD BEARING WALL REINFORCEMENT REQUIREMENTS.
- 6. PROVIDE DOWELS TO MATCH VERTICAL REINFORCEMENT. EMBED DOWELS 30" INTO FOUNDATION WALL AND LAP 30" WITH OR MAKE CONTINUOUS WITH VERTICAL STEEL.

MASONRY PIER SCHEDULE					
MARK	SIZE (LENGTH)	TYPE	VERTICAL REINFORCING	CLOSED LOOP TIE	COMMENTS
MP1	16"	III	(6) #6	(2) SETS OF 1/4" AT 8"	
MP2	24"	IV	(8) #6	(2) SETS OF 1/4" AT 8"	

- 1. ALL REINFORCED CMU CORES ARE GROUTED SOLID.
- 2. RUN HORIZONTAL JOINT REINFORCING CONT. THROUGH MASONRY PIERS.
- 3. USE 1/4" (2) RODS AS CLOSED LOOP TIES.
- 4. USE BOND BEAM CMU BLOCKS OR DROP TOP CMU BLOCK AT MASONRY PIERS WITH TIES.
- 5. SIZE IS WALL WIDTH x LENGTH.



1	_	L LINTEL SCHEDULE LINTELS ARE NOT SPECIFICALLY DETAILED
WALL THICK	CLEAR MASONRY OPENING WIDTH	SECTION
ALL	AT FIRE EXTINGUISHER CABINETS AND DRINKING FOUNTAINS	1/4" PLATE
4"	TO 5'-0"	ST3x6.25
4"	TO 7'-0"	3/16 V 1 1/2-8
· .		<u>T</u>
4"	TO 9'-0"	PL3/8"x7 1/2" ON PL3/8"x3 1/2"
6"	TO 5'-0"	(2) L3 1/2x2 1/2x1/4 (LLV)
6"	TO 7'-0"	WT4x10.5 <u> </u>
6"	TO 9'-0"	WT7x11 <u> </u>
6"	TO 12'-0"	WT7x13 WITH PL1/2"x2"
		3/16 1 1/2-8 I
8"	TO 5'-0"	(2) L3 1/2x3 1/2x1/4
8"	TO 7'-0"	(2) L4x3 1/2x5/16 (LLV)
8"	TO 9'-0"	WT7x15
10"	TO 7'-0"	W8x10 WITH PL5/16"x9"
		3/16 1 1/2-8 <u>I</u>
10"	TO 10'-0"	W8x15 WITH PL5/16"x9"
12"	TO 5'-0"	(3) L3 1/2x3 1/2x1/4 JLL
12"	TO 7'-0"	W8x10 WITH PL5/16"x11"
		3/16 1 1/2-8 <u>I</u>
12"	TO 10'-0"	W8x15 WITH PL5/16"x11"

NOTES:

- 1. PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL.
- 2. GROUT BLOCK CORES AND REINFORCE WITH (1) #5 VERT BELOW LINTEL BEARING.
- 3. CENTER LINTELS IN WALL UNLESS OTHERWISE NOTED.
- 4. BOTTOM PLATES UNDER WIDE FLANGE SHAPES SHALL BE EXTENDED FULL LENGTH OF LINTEL.
- 5. WELD LINTEL COMPONENTS INTO SINGLE UNIT.
- 6. NOT LINTELS ARE REQUIRED FOR 4" AND 6" NON-BEARING MASONRY WALLS WHERE GROUTED HOLLOW METAL FRAMES HAVE A HEADSPAN OF 4'-0" OR LESS.

BRICK LO	BRICK LOOSE LINTEL SCHEDULE				
MARK	SECTION	NOTE/ REMARKS			
W ≤ 4'-0"	L4x4x5/16				
6'-6" < L < 9'-0"	L6x4x3/8				
9'-0" < L < 12'-0"	L7x4x1/2				
12'-0" < L < 15'-0"	L8x4x3/4				

NOTES:

- 1. LINTELS TO BE SHOP PAINTED WITH ZINC RICK URETHANE. SEE SPECIFICATIONS.
- 2. PROVIDE 4" MIN BEARING EACH END OF LINTEL UNDER 9'-0". 8" BEARING FOR LONGER LINTELS.
- 3. SEE ARCH FOR CONTROL JOINT LOCATIONS AND FLASHING REQUIREMENTS.

Anderso Architi
MILWAUKEE MADISON CHICAGO
Total Integrated Enterprises
www.otie.com
Office 608.243.6470 Fax 608.241.3914 5100 Eastpark Blvd, Suite 300, Madison, Wisconsin 53718
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WARNER PARK COMMUNITY

RECREATION CENTER **EXPANSION** 1625 NORTHPORT DRIVE MADISON, WI 53704

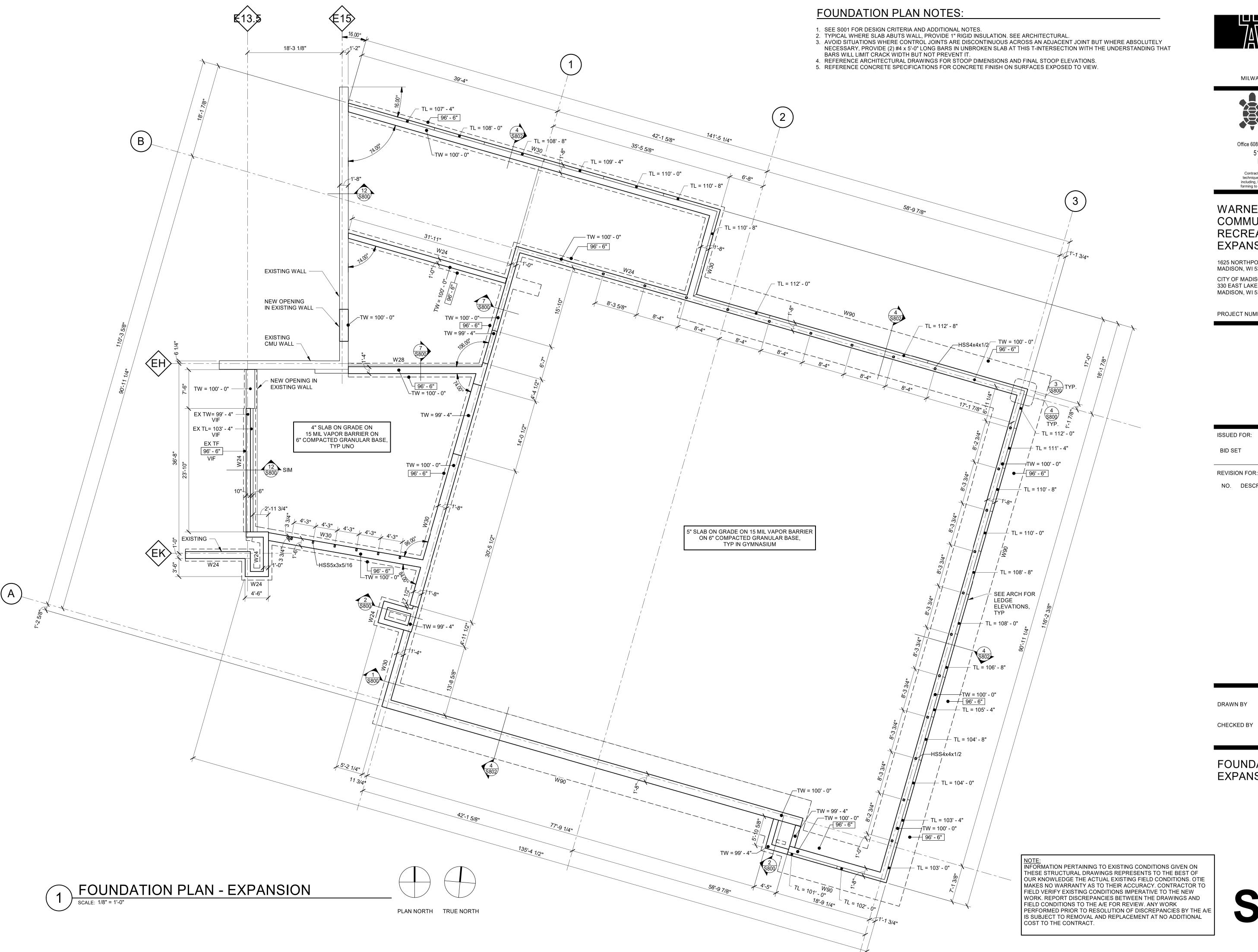
CITY OF MADISON PARKS DIVISION 330 EAST LAKESIDE STREET MADISON, WI 53715

PROJECT NUMBER 223471.00

ISSUE	FOR:	
BID SE	ĒΤ	5/16/202
REVISI	ON FOR:	
NO.	DESCRIPTION	DATE

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STRUCTURAL SCHEDULES



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223471.00

DATE

WARNER PARK COMMUNITY RECREATION CENTER **EXPANSION**

1625 NORTHPORT DRIVE MADISON, WI 53704

CITY OF MADISON PARKS DIVISION 330 EAST LAKESIDE STREET MADISON, WI 53715

PROJECT NUMBER

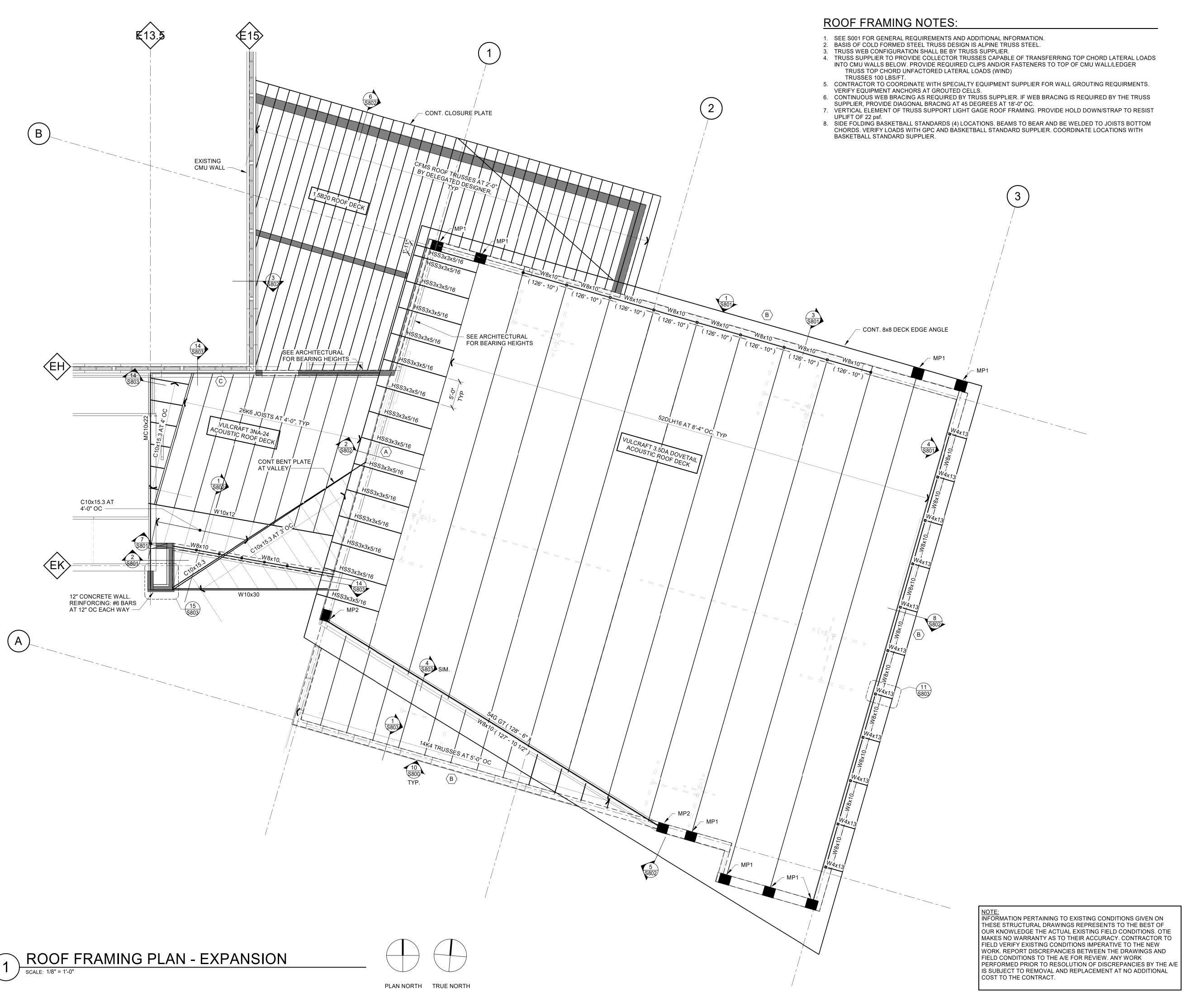
ISSUED FOR:

5/16/2024

NO. DESCRIPTION

FOUNDATION PLAN -**EXPANSION**

S200





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223471.00

5/16/2024

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WARNER PARK COMMUNITY RECREATION CENTER EXPANSION

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ISSUED FOR:

REVISION FOR:

BID SET

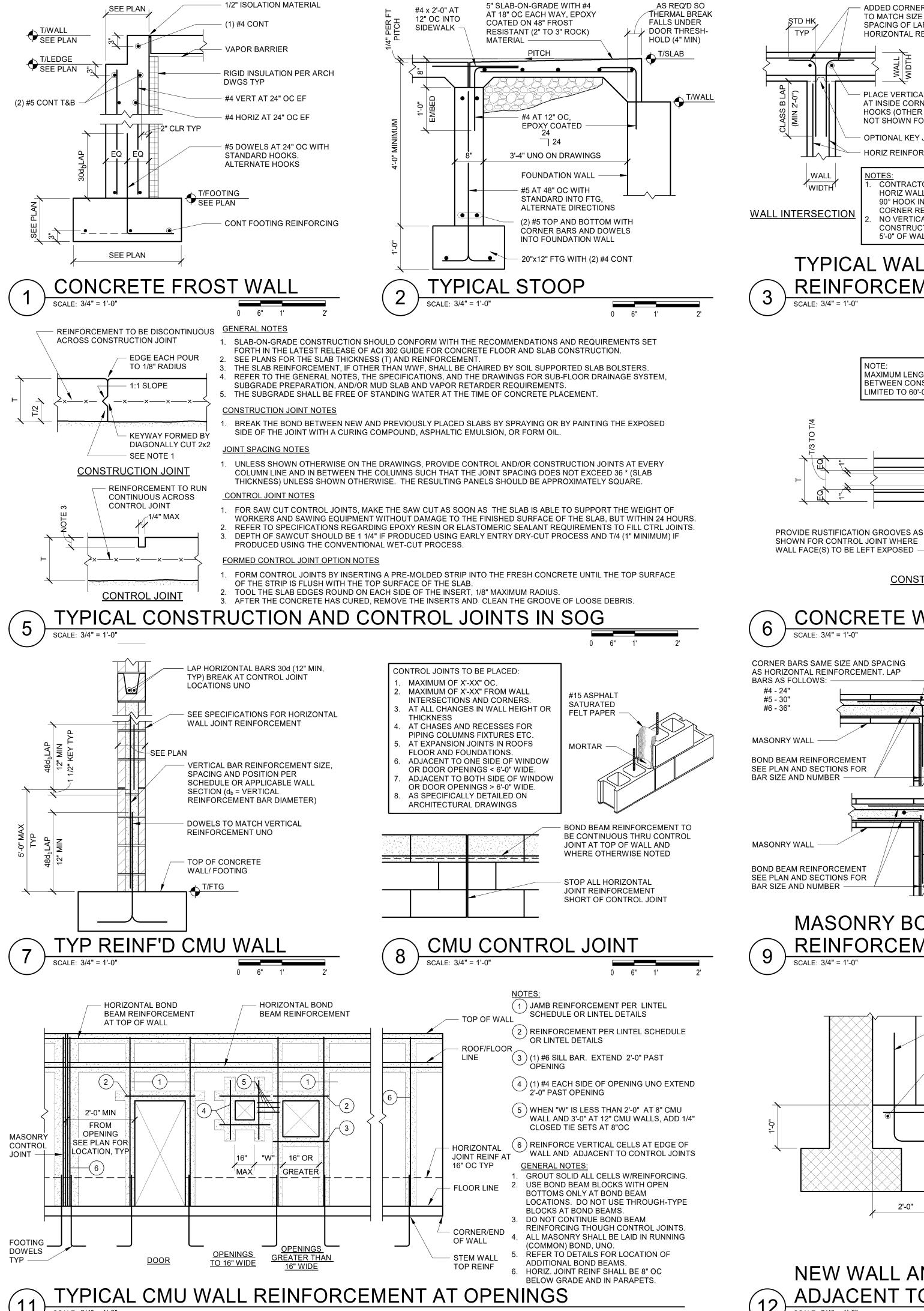
NO. DESCRIPTION

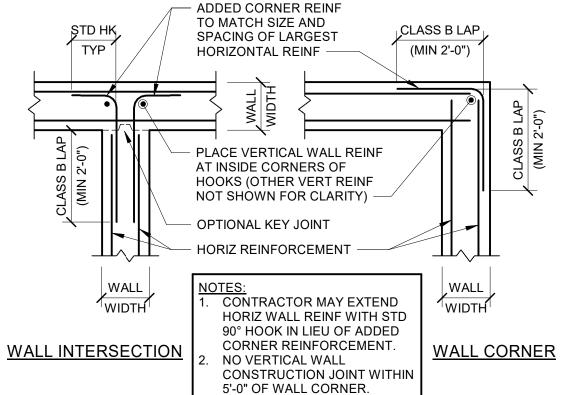
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ROOF FRAMING PLAN - EXPANSION

S201





TYPICAL WALL CORNER REINFORCEMENT

MAXIMUM LENGTH OF WALL POUR

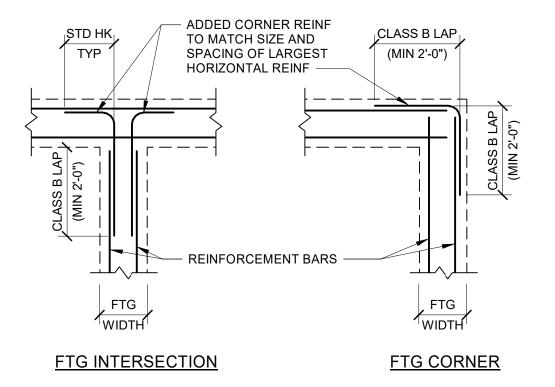
BETWEEN CONSTRUCTION JOINTS

CLASS 'B'

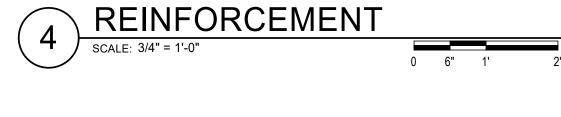
LAP SPLICE

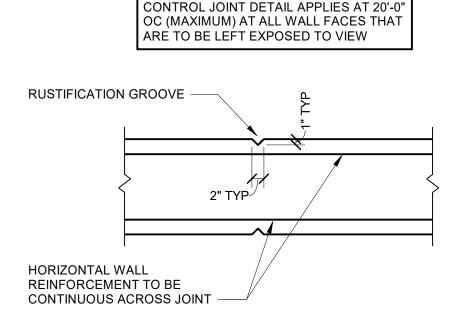
LIMITED TO 60'-0"

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



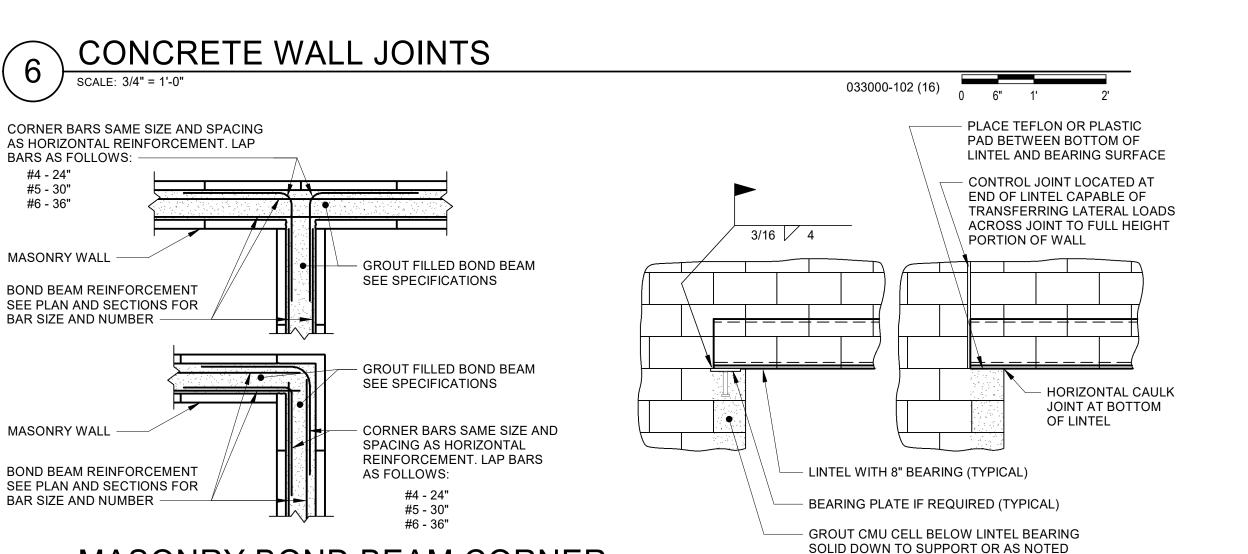
TYPICAL FOOTING CORNER

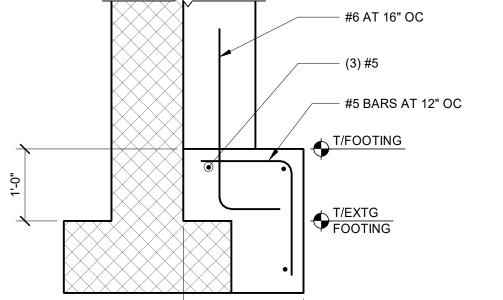




CONTROL JOINT

CONSTRUCTION JOINT

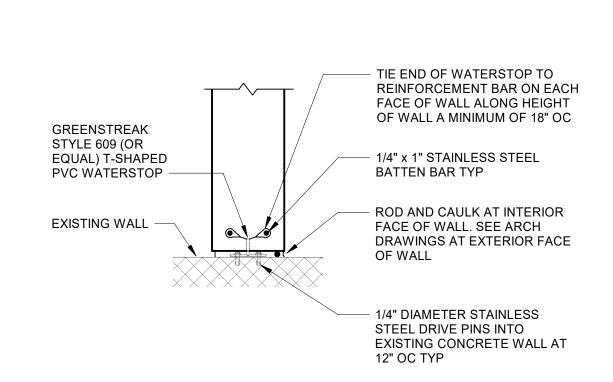




REINFORCEMENT PLAN

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

MASONRY BOND BEAM CORNER



OTHERWISE IN LINTEL SCHEDULE (TYPICAL)

LINTEL BEARING DETAIL

NEW WALL AND FOOTING ADJACENT TO EXISTING

2'-0"

NEW FDN TO EXISTING



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WARNER PARK COMMUNITY **RECREATION CENTER EXPANSION**

1625 NORTHPORT DRIVE MADISON, WI 53704

CITY OF MADISON PARKS DIVISION 330 EAST LAKESIDE STREET MADISON, WI 53715

PROJECT NUMBER

NO. DESCRIPTION

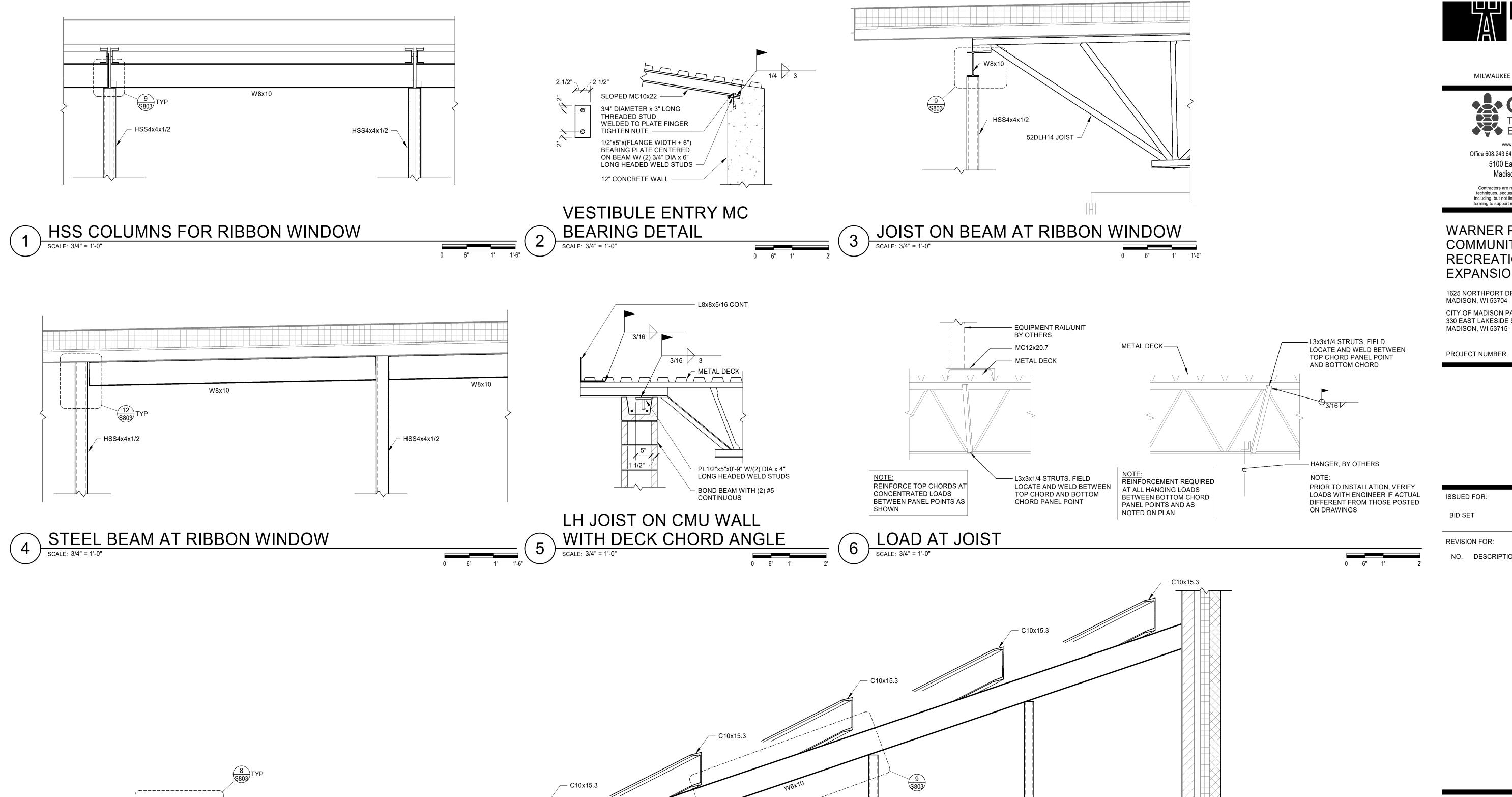
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S800



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WARNER PARK COMMUNITY RECREATION CENTER **EXPANSION**

1625 NORTHPORT DRIVE MADISON, WI 53704

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0 6" 1' 1'-6"

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STRUCTURAL DETAILS

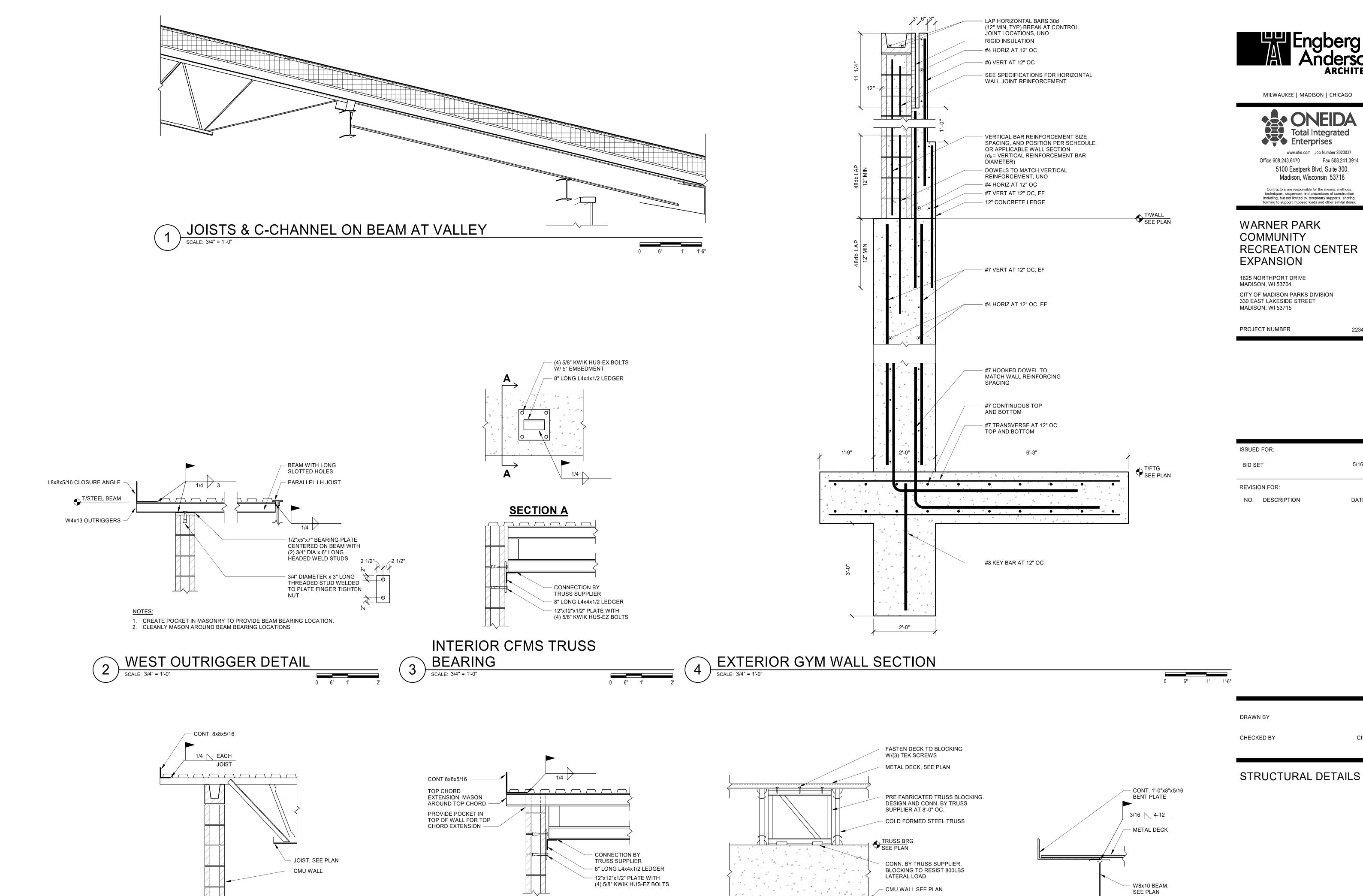
S801

COLUMNS AND BEAMS AT VALLEY

- C10x15.3

HSS5x3x5/16, TYP

W8x10



TYP TRUSS BLOCKING

EXTERIOR CFMS TRUSS

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

ROOF DECK EDGE

S802

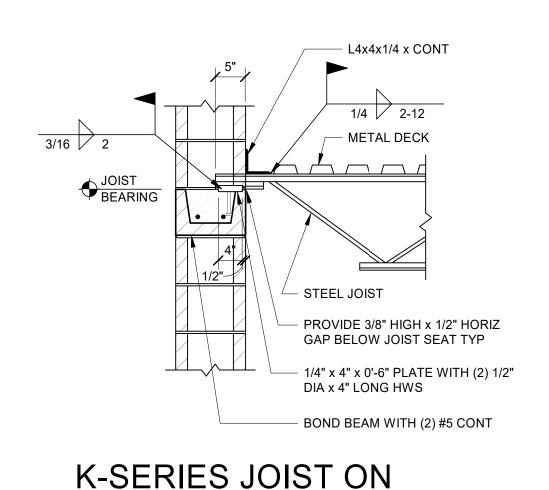
DECK EDGE AT EAST WALL

223471.00

5/16/2024

DATE

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MASONRY WALL

COVERAGE

INSTALLATION DIRECTION

END LAP DETAIL

AT LOCATIONS WHERE REINFORCEMENT

BARS OCCUR IN DECK CONCRETE, PROVIDE CHAIR SUPPORTS AT BARS TO

ACHIEVE CLEARANCE NOTED

3 1/2" (ABOVE METAL

DECK) CONCRETE SLAB

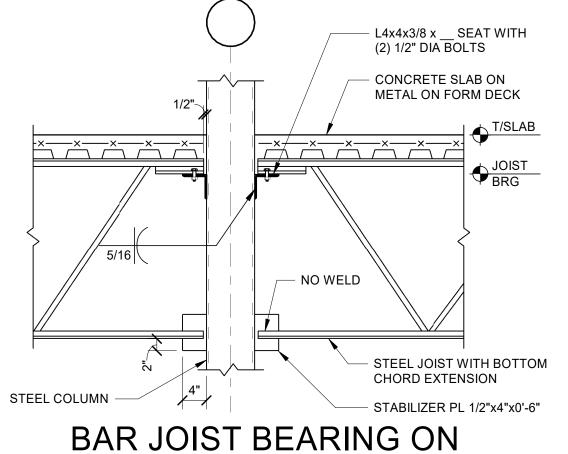
3" COMPOSITE METAL DECK

3/8" STIFFENER PL BOTH SIDES

FULL WIDTH -

LAP END LAPS. LAPS ARE TO OCCUR AT

SUPPORTS ONLY



SIDELAP CONN

(PER SPAN)

(2) #10 SELF

(5) #10 SELF

(2) #10 SELF

DRILLING SCREWS

#10 SELF-DRILLING

SCREWS AT 12" OC

#10 SELF-DRILLING

SCREWS AT 12" OC

METAL ROOF DECK

DECK BEARING ANGLE AT

DECK BRG

L5x3x1/4 (LLV) CONTINUOUS WITH 1/2" DIA x 3" SIMPSON TITEN HD ANCHORS ATX" OC IN GROUTED MASONRY

BOND BEAM WITH (2) #5 CONTINUOUS

SEE PLAN

DRILLING SCREWS

DRILLING SCREWS

NOTES

1, 2, 3

1, 2, 3

1, 2, 3

1, 2, 3

1, 2, 3

HSS COLUMN

DESIGN SUPPORT
HOF CONN
SPANS PATTERN

36/4-#12

TEK

SCREWS

36/5-5/8"

PUDDLE

WELD

33/4-#12

TEK

SCREWS

36/4-5/8"

PUDDLE

WELDS 36/4-5/8"

PUDDLE

WELDS

1. ATTACH DECK TO ALL SUPPORTS WITH FASTENERS AND FASTENING PATTERNS

ACTIVATED FASTENERS, PNEUMATICALLY-DRIVEN FASTENERS) FOR APPROVAL

WITH MANUFACTURERS LITERATURE ON EQUAL PRIOR TO USING ALTERNATE.

2. GC CAN SUBMIT ALTERNATE FASTENING (WELDING, SCREWING, POWDER-

DECK ID DECK TYPE GAUGE

1.5B

1.0C (NON-

COMPOSITE)

(COMPOSITE)

DOVETAIL

INDICATED. FASTEN PERIMETER AT 12" OC.

3. ATTACH PARTIAL SHEETS IN ALL FLUTES

D2

D3

D4

D5

DECK NOTES:

FASTENING PATTERN

METAL ROOF DECK FASTENING

3/8" THICK SPLICE PL **BOLTED EACH SIDE** -

(4) 3/4" DIA A325 BOLTS

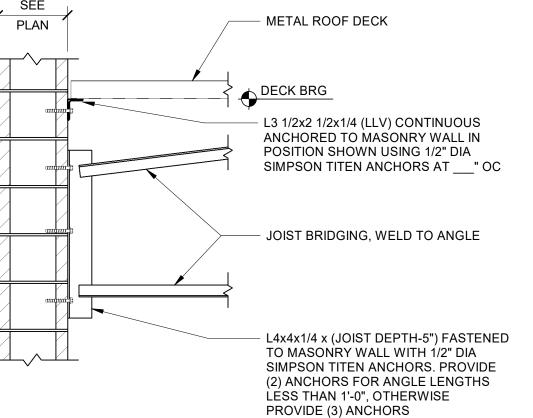
STEEL COLUMN

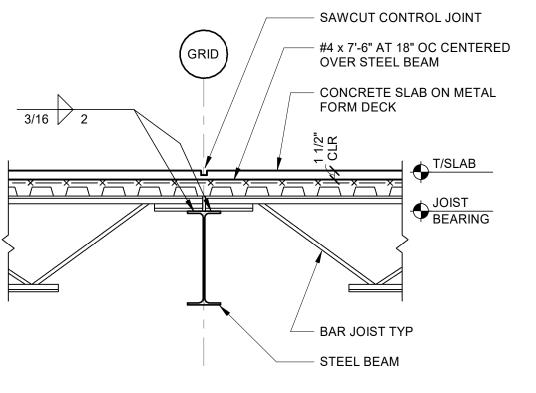
- UNLESS SCHEDULED OTHERWISE

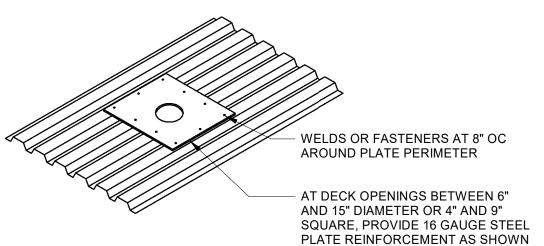
1/2" CAP PL x LARGER OF BEAM

OR COLUMN FLANGE WIDTH WITH

SEE PLAN







A. NO PLATE REINFORCEMENT REQUIRED AT DECK OPENINGS SMALLER

PROVIDE STEEL FRAME PER TYPICAL FRAMING AT ROOF OPENINGS

TYP ROOF DECK OPENING

B. FOR DECK OPENINGS LARGER THAN 13" DIAMETER OR 9" SQUARE,

C10x15.3

3/16 \ 2

THAN 6" DIAMETER OR 4" SQUARE.



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OITY OF MADIOON DADIO DIVIDION

COMMUNITY RECREATION CENTER **EXPANSION**

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330 EAST LAKESIDE STREI	ĒΤ
MADISON, WI 53715	

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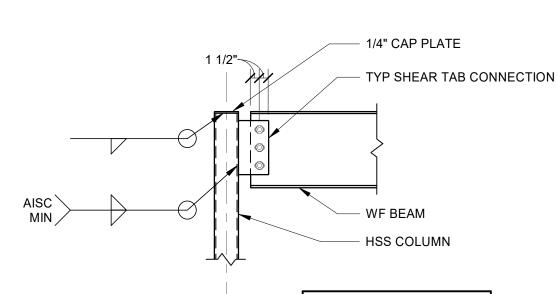
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REVISION FOR:

NO. DESCRIPTION

BEAM CONNECTION SCALE: 3/4" = 1'-0'



CHANNEL BEARING ON

SEE SHEAR TAB STEEL CONNECTIONS DETAIL FOR INFORMATION NOT GIVEN

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

WF BEAM TO HSS COL

CHECKED BY Checker

STRUCTURAL DETAILS

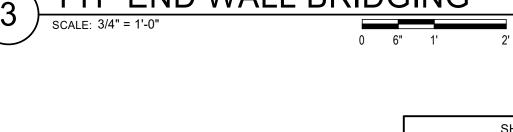
BAR JOIST BEARING ON BEAM

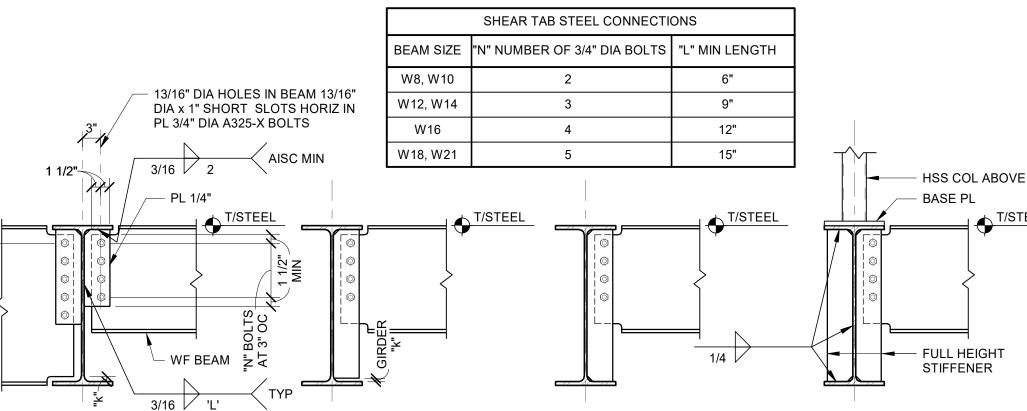
TYP END WALL BRIDGING



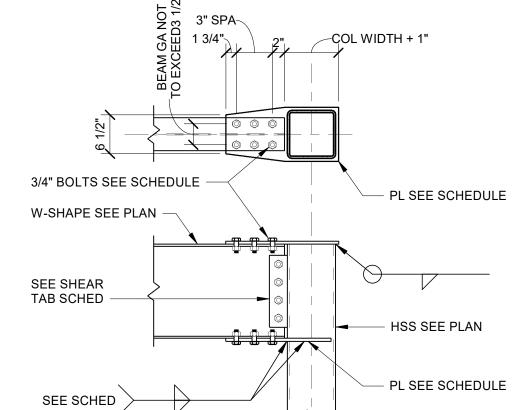








BEAM TO BEAM CONNECTION
1-SIDED CONDITION SHEARTAB BEAM CONNECTIONS



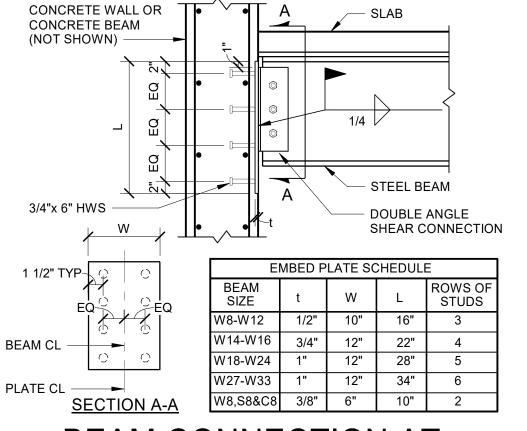
M	OMENT	SCHEDU	LE
MARK	PLATE THICKNESS	NO. OF BOLTS PER FLANGE	WELD SIZE
MC1	1/2"	4	1/4

BEAM TO BEAM CONNECTION AT COLUMN BEARING

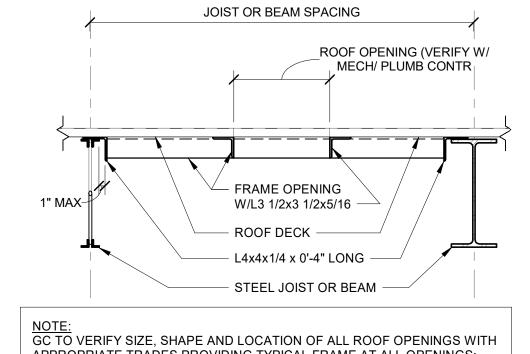
BEAM TO BEAM CONNECTION EXTERIOR WALL CONDITION

•. • • • • • • • • • • • • • • • • • •	PL SEE SCHEDULE
W-SHAPE SEE PLAN $oldsymbol{}$	
SEE SHEAR TAB SCHED	
	HSS SEE PLAN
SEE SCHED	PL SEE SCHEDULE

	Y
1	BEAM TO TUBE COLUMN MOMENT CONNECTION
1)	SCALE: 3/4" = 1'-0"



	SECTION A-A	vv0,00000	0/0	Ü	10	
	BEAM CO	NNE	CT	OI	۱ A	T
-	CONCRE	TE F	RA	MIN	1G	



GC TO VERIFY SIZE, SHAPE AND LOCATION OF ALL ROOF OPENINGS WITI APPROPRIATE TRADES PROVIDING TYPICAL FRAME AT ALL OPENINGS:
 LARGER THAN 13" DIAMETER OR 9" SQUARE OR OR
2. SUPPORTING IN EXCESS OF 60 LBS EQUIPMENT LOADS

TYPICAL FRAMING AT
OPENINGS

BEAM BEARING DETAIL

BEAM WITH LONG

SLOTTED HOLES

CLEANLY MASON

_⊚ 3/4" DIAMETER x 3" LONG

WELDED TO PLATE

1/2"x5"x(FLANGE WIDTH + 3")

BEARING PLATE CENTERED

ON BEAM W/ (2) 3/4" DIA x 6"

LONG HEADED WELD STUDS

16" x WALL WIDTH MASONRY

PIER WITH (2) #5 BARS FULL HEIGHT (1 #5 EACH CELL) CENTERED ON BEAM

THREADED STUD

├ 🌣 │ FINGER TIGHTEN NUT

IN POCKET

~2 1/2"

1. DETAIL APPLIES AT ALL BEAMS BEARING ON WALLS EXCEPT FOR LINTELS AND

S803

DRAWN BY

0 6" 1'