NUCOR
BUILDING SYSTEMS
A DIVISION OF NUCOR CORPORATION

PROJECT NUMBER: T08H0501A
PROJECT NAME: ASHISH MISHRA
PROJECT LOCATION: JACKSON, MS COUNTY: HINDS
CUSTOMER: METAL BUILDERS SUPPLY PEARL, MS

MBMA MEMBER

QUALITY METAL BUILDINGS AISC CERTIFICATION

NOTES AND SPECIFICATIONS

BUILDING ERECTION NOTES

1) THE GENERAL CONTRACTOR AND/OR ERECTOR IS RESPONSIBLE TO SAFELY AND PROPERLY ERECT THE METAL BUILDING SYSTEM IN CONFORMANCE WITH THESE DRAWINGS, OSHA REQUIREMENTS, AND MBMA STANDARDS PERTAINING TO PROPER ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE CORRECT USE OF TEMPORARY GUYS AND BRACING WHERE NEEDED FOR SQUARING, PLUMBING, AND SECURING THE STRUCTURAL AND SECONDARY FRAMING. SECONDARY WALL FRAMING MEMBERS (GIRTS OR BAR JOISTS) ARE NOT DESIGNED TO FUNCTION AS A WORK PLATFORM OR PROVIDE SAFETY TIE OFF ATTACHMENT IN ACCORDANCE WITH OSHA REQUIREMENTS. SECONDARY ROOF FRAMING MEMBERS (PURLINS OR BAR JOISTS) ARE NOT DESIGNED TO PROVIDE SAFETY TIE OFF ATTACHMENT IN ACCORDANCE WITH OSHA REQUIREMENTS.

2) ALL HIGH STRENGTH BOLTS ARE TYPE ASTM A325 AND ARE TO BE INSTALLED TO THE "SNUG-TIGHT" CONDITION AS DEFINED BY THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, 2004 EDITION, SECTION 8.1, UNLESS NOTED OTHERWISE. ALSO, NOTE THAT BOLTS IN STANDARD HOLES DO NOT REQUIRE WASHERS PER THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, SECTION 6.

3) ALL A307 MACHINE BOLTS ARE TO BE BROUGHT TO A "SNUG TIGHT" CONDITION TO ENSURE THAT THE MATERIALS IN THE JOINT ARE BROUGHT INTO GOOD CONTACT WITH EACH OTHER.

4) WASHERS ARE REQUIRED AT ALL SLOTTED CONNECTIONS AS FOLLOWS: -HOLE TO SLOT CONNECTION, ONE WASHER REQUIRED ON SLOTTED SIDE. -SLOT TO SLOT CONNECTION, TWO WASHERS REQUIRED, ONE ON EACH SIDE OF THE CONNECTION. HOWEVER AT LAPPED ZEE MEMBERS, WHETHER PURLINS OR GIRTS, NO WASHERS ARE REQUIRED IN THE 8-BOLT LAPPED REGION.

5) THE METAL BUILDING SUPPLIER SHALL BE NOTIFIED PRIOR TO ANY FIELD MODIFICATIONS. MODIFICATIONS SHALL BE APPROVED BY THE METAL BUILDING SUPPLIER BEFORE WORK IS UNDERTAKEN.

6) ALL WELDING MUST BE PERFORMED BY AWS QUALIFIED WELDERS FOR THE WELDING PROCESSES AND POSITIONS INDICATED. ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI STEEL AND LOW HYDROGEN CONTENT.

7) COMMON ABBREVIATIONS:

a) TYP.UNO–TYPICAL UNLESS NOTED OTHERWISE	f) SIM.–SIMILAR
b) SLV–SHORT LEG VERTICAL	g) NIC–NOT IN CONTRACT
c) LLV–LONG LEG VERTICAL	h) SL–STEEL LINE
d) NS & FS–NEAR SIDE AND FAR SIDE	i) N/A–NOT APPLICABLE
e) O.A.L.–OVERALL LENGTH	j) MBS–METAL BUILDING SUPPLIER

8) CONSTRUCTION LOADS SHALL NOT BE PLACED ON ANY STRUCTURAL STEEL FRAMEWORK UNLESS SUCH FRAMEWORK IS SAFELY BOLTED, WELDED, OR OTHERWISE ADEQUATELY SECURED.

9) PURLINS AND GIRTS SHALL NOT BE USED AS AN ANCHORAGE POINT FOR A FALL ARREST SYSTEM UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE METAL BUILDING SUPPLIER.

10) PURLINS MAY ONLY BE USED AS A WALKING/WORKING SURFACE WHEN INSTALLING SAFETY SYSTEMS, AFTER ALL PERMANENT BRIDGING HAS BEEN INSTALLED AND FALL PROTECTION IS PROVIDED.

11) CONSTRUCTION LOADS MAY BE PLACED ONLY WITHIN A ZONE THAT IS WITHIN 8 FEET OF THE CENTER-LINE OF THE PRIMARY SUPPORT MEMBER. CFR BUNDLES SHOULD BE PLACED DIRECTLY OVER THE RIGID FRAMES.

12) ALL LIFTING DEVICES MUST MEET OSHA OR MBMA STANDARDS AND IN NO CASE IS IT ACCEPTABLE TO USE STRUCTURAL MEMBERS SUPPLIED BY THE MBS AS A SPREADER BAR OR LIFTING DEVICE.

GENERAL DESIGN NOTES AND MATERIAL SPECIFICATIONS

1) ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS–ALLOWABLE STRESS DESIGN", NINTH EDITION, OR THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", THIRTEENTH EDITION, AS REQUIRED BY THE SPECIFIED BUILDING CODE.

2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION.

3) ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

4) ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE – SHEET STEEL", LATEST EDITION.

5) IF JOISTS ARE INCLUDED WITH THIS PROJECT, THEY ARE SUPPLIED AS A PART OF THE SYSTEMS-ENGINEERED METAL BUILDING AND ARE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1926.755 OF THE OSHA SAFETY STANDARD FOR STEEL ERECTION, DATED JANUARY 18, 2001.

6) MATERIAL SPECIFICATIONS:

PLATE AND FLANGE MATERIAL:	
5"–12" WIDE & THRU 1" THICK	A529, GRADE 55
OTHERS	A36
BUILT-UP STRUCTURAL WEB MATERIAL	A1011 SS (OR HSLAS CL1) OR 55
HOT-ROLLED STRUCTURAL	A36 OR A572 GRADE 50
STRUCTURAL TUBE	A500 GRADE B (46 KSI)
STRUCTURAL PIPE	A500 GRADE B (42 KSI)
COLD-FORMED STRUCTURAL	A1011 SS (OR HSLAS CL1) OR 55 MOD 57
RPB ROOF PANELS	A792 GRADE 80
STANDING SEAM ROOF PANELS	A792 GRADE 80, CLASS 1
R-PANEL AND A-PANEL SIDING	A653 GRADE 80, CLASS 1 OR A792 GRADE 80, CLASS 1
ROD BRACING	A529 GRADE 50
CABLE BRACING	A475 COATING CLASS A, GRADE EHS, 7-WIRE
WELDS	AWS D1.1 LATEST EDITION
HIGH-STRENGTH BOLTS	A325 TYPE 1 HEAVY HEX OR A490 TYPE 1 HEAVY HEX
MACHINE BOLTS	A-307 GRADE A HEX

TRADEMARK 2004, NUCOR BUILDING SYSTEMS

PRIMARY AND SECONDARY STEEL PRIMER COLOR: RED

ROOF SHEETING, TYPE: VR16 26 GAGE, FINISH: TBK

ROOF PANEL CLIP TYPE: ☐N/A ☒TALL ☐SHORT ☐UTILITY ☐FIXED ☐FLOATING

THERMAL BLOCKS: ☒YES ☐NO EPS FOAM SPACER: ☐YES ☒NO

SEAMING METHOD (FOR CFR ONLY): ☐"ROLL LOCK"™ ☒"VISE LOCK"™ ☐"VISE LOCK 360°"™

REFER TO THE DETAIL PAGES FOR ADDITIONAL SEAMING INFORMATION

CLASSIC AND CFR GUTTER HANGERS ARE PROVIDED IN GALVANIZED COLOR ONLY. VR16 GUTTER HANGERS ARE AVAILABLE COLORED.

COMPOSITE ROOF DECK, TYPE: N/A GAGE, FINISH:

ROOF DECK ONLY, TYPE: 1.5A 24 GAGE, FINISH: GALVANIZED (ONLY ON FOYER)

ROOF LINE TRIM, PAINTED: TBK

EXTERIOR WALL SHEETING, TYPE: CLASSIC 26 GAGE, FINISH: TBK

EXTERIOR WALL CORNER TRIM FINISH: TBK

EXTERIOR BASE TRIM, PAINTED: N/A

REVERSE CLASSIC @ REW OF MAIN BLDG 26 GAGE, FINISH: GALVALUME

FRAMED OPENING TRIM, PAINTED: TBK

FRAMED OPENING COVER TRIM, PAINTED: N/A

WALL FRAMED OPENING, SIZES: (10) 10'–0 1/2" X 2'–0 1/2"

INTERIOR WALL SHEETING, TYPE: N/A GAGE, FINISH:

INTERIOR CEILING LINER, TYPE: CLASSIC WALL 26 GAGE, FINISH: TBK

INTERIOR WALL TRIM, PAINTED: N/A

YES	NO	
☒	☐	DOWNSPOUTS PAINTED: TBK GUTTERS PAINTED: TBK
☐	☒	WALKDOORS, QUANTITY: PAINTED:
☐	☒	WINDOWS: PAINTED:
☒	☐	INSULATION (NOT BY NBS), ROOF: SIMPLE SAVER WALLS: SIMPLE SAVER
☐	☒	CRANES (SEE CRANE PLAN FOR ADDITIONAL CRANE INFORMATION)
☐	☒	MEZZANINE (SEE MEZZANINE PLAN FOR ADDITIONAL MEZZANINE INFO)
☐	☒	WALL TRANSLUCENT PANELS, LENGTH: QUANTITY:
☐	☒	ROOF TRANSLUCENT PANELS, LENGTH: QUANTITY:
		INSULATED PANELS YES ☐ NO ☐
☐	☒	PIPE JACKS, SIZE: QUANTITY:
☐	☒	ROOF FRAMED OPENINGS, SEE ROOF FRAMING PLAN FOR SIZES
☐	☒	ROOF CURBS (BY NBS), SEE ROOF FRAMING PLAN FOR SIZES
☐	☒	RIDGE VENTS, 10'–0" LONG X ☐12" ☐9" THROAT. QUANTITY:
		SINGLE UNITS ☐ CONTINUOUS UNITS ☐

YES	NO	
☐	☒	FASCIA, PROJECTION: TOP OF FASCIA HEIGHT:
		FACE PANEL, TYPE: GAGE, FINISH:
		BACK PANEL, TYPE: GAGE, FINISH:
		CAP TRIM PAINTED: BASE TRIM PAINTED:
		☐ CLOSED SYSTEM, CLEAR UNDER SOFFIT TRIM:
		SOFFIT PANEL, TYPE: GAGE, FINISH:
		SOFFIT TRIM AT BUILDING LINE PAINTED:
		☐ OPEN SYSTEM, (NO SOFFIT PANEL PROVIDED)
		CLEAR UNDER FASCIA:
☒	☐	PARAPET SYSTEM
		☐ STRUCTURAL PARAPET ☐ NON-STRUCTURAL PARAPET ☒ NOT BY MBS
		TOP OF PARAPET HEIGHT: 15'–0" & 22'–0"
		BACKER PANEL, TYPE: CLASSIC 26 GAGE, FINISH: GALVALUME
☐	☒	CANOPY (EXPOSED BEAM), PROJECTION:
		AT EAVE LINE ☐ BELOW EAVE ☐
		ROOF PANEL, TYPE: GAGE, FINISH:
		SOFFIT PANEL, TYPE: GAGE, FINISH:
		SOFFIT TRIM AT BUILDING LINE PAINTED:
		CLEAR UNDER CANOPY BEAM:
☐	☒	BOXED-OUT CANOPY, PROJECTION: ☐ AT EAVE LINE ☐ BELOW EAVE
		ROOF PANEL, TYPE: GAGE, FINISH:
		FACE PANEL, TYPE: GAGE, FINISH:
		SOFFIT PANEL, TYPE: GAGE, FINISH:
		SOFFIT TRIM AT BLDG LINE PAINTED:
		CLEAR UNDER SOFFIT: BASE TRIM PAINTED:
☒	☐	EAVE EXTENSION (CONCEALED BEAM), PROJECTION: 2'–0"
		SOFFIT PANEL, TYPE: ACCENT WALL 26 GAGE, FINISH: TBK
		SOFFIT TRIM AT BUILDING LINE PAINTED: TBK
☒	☐	RAKE EXTENSION, PROJECTION: 2'–0"
		SOFFIT PANEL, TYPE: ACCENT WALL 26 GAGE, FINISH: TBK
		SOFFIT TRIM AT BUILDING LINE PAINTED: TBK
☐	☒	PARTITION WALL SHEETING
		PANEL TYPE: GAGE, FINISH:
		PARTITION WALL TRIM COLOR:

BUILDING LOADS

DESIGN CODE: IBC 2003 BUILDING END USE: 5B

ROOF LIVE LOAD: 20 PSF MBMA OCC. CLASS:
REDUCIBLE PER CODE II – STANDARD BUILDINGS

GROUND SNOW LOAD: 5 PSF SNOW EXP. FACTOR, Ce: 1.00
SNOW IMPORTANCE FACTOR, Is: 1

WIND: 90 mph WIND IMPORTANCE FACTOR, Iw: 1
EXPOSURE: B WITHIN HURRICANE COASTLINE ☐ YES ☒ NO

UL 90 ☒ YES ☐ NO
Classic Roof–Const. No. 161; Classic Roof w/ Translucent Panel–Const. No. 167 CFR Roof–Const. No. 580; CFR Roof w/ Translucent Panel–Const. No. 580; VR16 Roof–Const. No. 508

SEISMIC INFORMATION Ss:0.203, S1:0.089
Design Sds/Sd1: 0.217/0.142 Site Class: D
Seismic Imp. Factor Ie: 1 Seismic Design Category: C
Analysis Procedure: Equivalent Lateral Force Method
Basic SFRS: Not Detailed For Seismic/Fixed Base Columns

NOTES:
1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC., ARE SUSPENDED FROM ROOF MEMBERS, CONSULT THE M.B.S. IF THESE CONCENTRATED LOADS EXCEED 200 POUNDS, OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.

2) THE DESIGN OF STRUCTURAL MEMBERS SUPPORTING GRAVITY LOADS IS CONTROLLED BY THE MORE CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD, AS DETERMINED BY THE APPLICABLE CODE.

3) THE SPANDREL BEAMS WHICH SUPPORTS THE TOP OF THE MASONRY WALL, MUST BE ATTACHED TO THE WALL AT 5'–0" O.C. MAX. ALSO, THE BEAM MUST BE ATTACHED TO THE WALL NO MORE THAN 6" AWAY FROM EACH WEB SHEAR STIFFENER POINT. THE DESIGN OF THIS ATTACHMENT IS BY OTHERS. FIELD DRILLING OF THE BEAM FOR A BOLTED ATTACHMENT WILL BE REQUIRED. PLEASE REFERENCE THE "SPANDREL BEAM TO NON-LOAD BEARING MASONRY WALL" DETAILS–SEE DETAIL 2/D2

4) THE SPANDREL CHANNEL WHICH SUPPORTS THE TOP OF THE MASONRY WALL, MUST BE ATTACHED TO THE WALL AT 5'–0" O.C. MAX. THE DESIGN OF THIS ATTACHMENT IS BY OTHERS. FIELD DRILLING OF THE CHANNEL FOR A BOLTED ATTACHMENT WILL BE REQUIRED.

5) LEDGER ANGLE CONNECTION TO WALL IS BY OTHERS. PLEASE NOTE THAT BRICK/STUD WALL BY OTHERS SHALL NOT BEAR ON ENDWALL RAFTER.

	BUILDING	BUILDING	BUILDING	BUILDING	BUILDING
	MAIN STR.	FOYER	LEAN-TO A	LEAN-TO B	OPEN KIT.
ROOF DEAD (PSF):	3.00	3.00	3.00	3.00	3.00
PRL COL. (PSF):	3.00	5.00	5.00	5.00	3.00
SEC. COL. (PSF):	3.00	5.00	5.00	5.00	3.00
SNOW Cs:	1.00	1.00	1.00	1.00	1.00
SNOW Ce:	1.00	1.00	1.00	1.00	1.00
ROOF SNOW (PSF):	3.15	5.00	5.00	5.00	5.00
WIND ENCLOSURE:	Enclosed	Enclosed	Enclosed	Enclosed	Enclosed
GCpi:	+/–0.18	+/–0.18	+/–0.18	+/–0.18	+/–0.18
SEISMIC R:	3	1.25	3	3	3
SEISMIC Cs:	0.072	0.173	0.072	0.072	0.072
BASE SHEAR (KIPS):	5.8	10.4	3.6	3.6	0.70

ERECTION MANUALS REQUIRED
(ERECTION MANUALS ARE SHIPPED WITH THE BUILDING IN A WAREHOUSE PACKING CRATE)

☐ CFR ROOF	☐(H9600) OR ☐(H8250)	☐ SINGLE CURB (H9650)
☐ CLASSIC ROOF	☐(H9420) OR ☐(H8201)	☐ DOUBLE CURB (H9800)
☒ WALL SHEETING	☒(H9430) OR ☐(H8300)	☒ VR16 (H9900)

☐ JOIST BRIDGING PACKET (SENT SEPARATELY BY JOIST MANUFACTURER)

DRAWING INDEX

COVERSHEET C1 A/BOLT DWGS F1, F2, F3
COLUMN BASE REACTIONS R1–R20 (SEPARATE 8 1/2" X 11" SUBMITTAL)
STRUCTURAL/SHEETING DRAWINGS E1, E1.1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E15, E16, E17, E18, E19, E20, E21, E22, E23, E24, E25, E26, E27, E28, E29, E30,E31
DETAILS D1, D2, D3, D4, D5, D6, D7, D8, D9, D9.1, D9.2, D10, D11, D12, D13, D14

ISSUE	DWN	CHK	ENG	P.E.	DATE
APPROVAL	BW/EV	JR	JZ		11/26/08
REVISED APPROVAL	TJF		JZ		01/29/09
PERMITS FOR APPROVAL	JH		JZ		03/17/09
REVISED APPROVALS	NJS				04/29/09

NUCOR BUILDING SYSTEMS
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PROJECT NAME: ASHISH MISHRA
JACKSON, MS
CUSTOMER: METAL BUILDERS SUPPLY
PEARL, MS

JOB NUMBER: T08H0501A

SHEET NO: C1 of 1

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY NUCOR BUILDING SYSTEMS, A DIVISION OF NUCOR CORPORATION. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF NUCOR BUILDING SYSTEMS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY NUCOR BUILDING SYSTEMS AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.