KAINOS STEEL BUILDINGS

APPROVAL OF KAINOS STEEL DRAWINGS INDICATES THAT KAINOS STEEL, LLC CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. WHERE DISCREPANCIES EXIST BETWEEN THE B & C STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 4.2.1 AISC CODE OF STANDARD PRACTICE 9TH ED.). DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY KAINOS STEEL, LLC. ARE THE RESPONSIBILITY OF THE CONTRACTORS AND ENGINEERS OTHER THAN KAINOS STEEL LLC UNLESS SPECIFICALLY INDICATED.

BUILDING DESCRIPTION:

	WIDTH(Ft):	LENGTH(Ft):	HEIGHT(Ft):	ROOF PITCH
BUILDING "A":	CS 50	X 40	X 15 EH	1.012
BUILDING "B":		X	X	
BUILDING "C":		X	X	
BUILDING "D":		X	X	
BUILDING "E":		X	X	

(BUILDING DIMENSIONS ARE NOMINAL. REFER TO PLANS).

FRAME TYPES:

LEFT ENDWALL: Rigid Frame INTERIOR FRAMES: Rigid Frame

RIGHT ENDWALL: Standard Endwall

ANCHOR BOLTS:

BY THE MANUFACTURER (√) (At an additional cost) BY OTHERS ( )

ADDITIONAL FEATURES:

PANEL ACCESSORY INFORMATION:

WARNING:

IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED IN CONJUNCTION WITH LEAD OR COPPER. BOTH LEAD AND COPPER HAVE HARMFUL CORROSION EFFECTS ON THE ALUMINUM ZINC ALLOY COATING WHEN THEY ARE USED IN CONTACT WITH GALVALUME STEEL PANELS. EVEN RUN-OFF FROM COPPER FLASHING, WIRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.

COLORS:

PRIMARY FRAMES:	Red-Oxide Primer
SECONDARY FRAMES:	Red-Oxide Primer
WALLS:	LIGHT STONE
ROOF:	LIGHT STONE
TRIM:	KOKO BROWN

FRAMED OPENINGS:

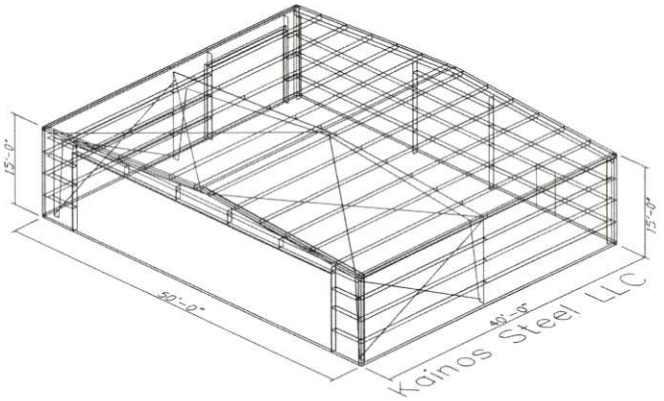
LEFT ENDWALL:	40' X 12' FOR HI-FOLD DOOR
RIGHT ENDWALL:	(1) Walk Door Framed Opening
FRONT SIDEWALL:	none
BACK SIDEWALL:	(1) 12' Wide x 12' High

BASE ANGLE: pre-galvanized base angle

GENERAL NOTES:

1. All steel shall be fabricated and erected in accordance of the latest edition of AISC specifications for the design, fabrication, and erection of structural steel.
2. All hot-rolled sections and rod bracing is to be 50ksi minimum.
3. All built-up members to be 50 ksi minimum unless specified elsewhere.
4. All cold-formed members is to be 36 ksi minimum as manufactured by Kainos Steel, LLC. and supplied by Kainos Steel, LLC.
5. Cable bracing is to be, "Brace Grip" system as manufactured by Kainos Steel, LLC.
6. All welding electrodes shall be A233 Class E-70 Series. All welding is to be performed per the latest AWS specification. minimum welds on primary structural members is to be 3/16 fillet welds. Unless shown otherwise on drawings, all moment connection weld shall be:
   - 1/4" Fillet welds - web to end plate
   - Full penetration welds - flanges to end plates
   - Full penetration welds - web splices, flange plate splices

   When joining material greater than 1/2" thick, Fillet welds is to be 3/8".
7. All structural steel shall be field fabricated unless noted. All welding is to be performed by certified welders for the welds being used.
8. All structural steel shall have one coat of primer after fabrication. Welds are to be cleaned before painting.
9. All dimensions and design data on this drawing are the most accurate available to this engineer as of this date. Any changes are to be reported immediately to this engineer for possible design changes. The responsibility of this engineer shall be limited to the structural design of the building and shall not include the design or quantity of non-structural accessories such as sheeting, trim, flashing, doors, ventilators, windows, etc., nor the suitability of this building for a particular purpose.
10. All foundation and masonry design by others.
11. Verify all dimension before construction.
12. Verify any deviation from these drawings with the engineer listed below.
13. No on-site inspection is included in this design.



BUILDING LOADS:

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY: IBC 06

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

ROOF DEAD LOAD:	2.000 PSF (ROOF PANELS & PURLINS)
COLLATERAL LOAD:	2 PSF
ROOF LIVE LOAD:	20.00 PSF
ROOF SNOW LOAD:	0 PSF
BASIC WIND SPEED:	120 MPH
EXPOSURE:	C

IMPORTANCE FACTORS:

WIND LOAD:	1.00
SNOW LOAD:	
SEISMIC LOAD:	1.00

OTHER LOADS:

Design Class II Normal

THESE PLANS HEREBY MARKED:
FOR CONSTRUCTION
ARE TO BE USED FOR CONSTRUCTION

NOTE:

THIS BUILDING IS DESIGNED AS AN ENCLOSED STRUCTURE. ANY ACCESSORIES USED WITH THIS BUILDING (DOORS, WINDOWS, VENTS, ETC.) MUST BE RATED TO MEET OR EXCEED THE SAME WIND CRITERIA AS THIS BUILDING.

Verify all dimensions, lengths, and specifications on these drawings before signing for approval.

The engineering on this building is based on all specified materials being obtained from Kainos Steel, LCC. if available.

REVISIONS		
NO.	DATE	DESCRIPTION
A	2/10/16	For Approval
		For Permit
		For Construction

DRAWING INDEX

COLD FORMED STEEL COMPONENTS YIELD STREGNTH = 55.0 K.S.I (TYP)

SECT NAME	DIMENSIONS A	B	C	D	GA.	MEMBER PROPERTIES AREA	Ix	Iy	Sx	SHAPE
8X2SZ16	8	2-3/8"	2-1/8"	.96	16	.787	7.444	1.119	1.829	
8X2SZ14	8	2-3/8"	2-1/8"	.96	14	.994	9.357	1.343	2.299	
8X2SZ12	8	2-3/8"	2-1/8"	.96	12	1.336	12.473	1.963	3.064	
8X3SZ14	8	3-3/8"	3-1/8"	.96	14	1.136	11.590	1.343	2.853	
8X3SZ12	8	3-3/8"	3-1/8"	.96	12	1.528	15.472	1.963	3.809	
10X2SZ14	10	2-3/8"	2-1/8"	.96	14	1.136	15.950	1.343	3.141	
10X2SZ12	10	2-3/8"	2-1/8"	.96	12	1.528	21.301	1.963	4.195	
10X3SZ14	10	3-3/8"	3-1/8"	.96	14	1.278	19.451	1.343	3.837	
10X3SZ12	10	3-3/8"	3-1/8"	.96	12	1.720	26.010	1.963	5.131	
8X5ES14	8	5	5	.62	14	1.391	15.428	4.326	3.330	
8X5ES12	8	5	5	.62	12	1.771	19.519	5.439	4.880	
10X5ES14	10	5	6	.62	14	1.541	25.491	4.658	5.098	
10X5ES12	10	5	6	.62	12	1.963	32.292	5.857	5.807	

SECT NAME	DIMENSIONS A	B	C	D	GA.	MEMBER PROPERTIES AREA	Ix	Iy	Sx	SHAPE
8X2SC16	8	2-1/2"	2-1/2"	.72	16	.775	7.349	.624	1.837	
8X2SC14	8	2-1/2"	2-1/2"	.72	14	.978	9.216	.774	2.304	
8X2SC12	8	2-1/2"	2-1/2"	.72	12	1.310	12.235	1.008	3.059	
8X2SC14	8	3-1/2"	3-1/2"	.78	14	1.128	11.538	1.815	2.884	
8X2SC12	8	3-1/2"	3-1/2"	.78	12	1.514	15.355	2.387	3.839	
10X2SC14	10	2-1/2"	2-1/2"	.78	14	1.128	15.850	.853	3.170	
10X2SC12	10	2-1/2"	2-1/2"	.78	12	1.514	21.090	1.113	4.218	
10X2SC14	10	3-1/2"	3-1/2"	.78	14	1.270	19.350	1.946	3.870	
10X2SC12	10	3-1/2"	3-1/2"	.78	12	1.798	25.798	2.560	5.160	

STATE OF TEXAS — JOHN D. STARK — 81335 — LICENSED — PROFESSIONAL ENGINEER

Note to Building Official: Application of this seal is ONLY for the Metal Building Material reflected on these drawings and does not represent the professional of record.

Second Wind Engineering LLC
Texas Registered Engineering Firm
F-10864

REVIEWED
By John D. Stark at 4:23 pm, Feb 10, 2016

KAINOS STEEL BUILDINGS

Kainos Steel LLC.
22107 Hwy 6
Manvel, TX 77578
979-245-0110

Drawing of: Cover Page					
Size: 50 x 40 x 15					Roof Slope: 1.012
Customer: Tommy Pounds				JOB NO.: RK145_Tommy_Pounds	
Location: 807 Hal Mclain				Manvel, Tx 77578	
DRN BY: Chance K	CK'D BY: Ricky K	DATE: 2/10/16	SALESMAN: 2/10/16		SHEET NO. C1 / REV: 0