

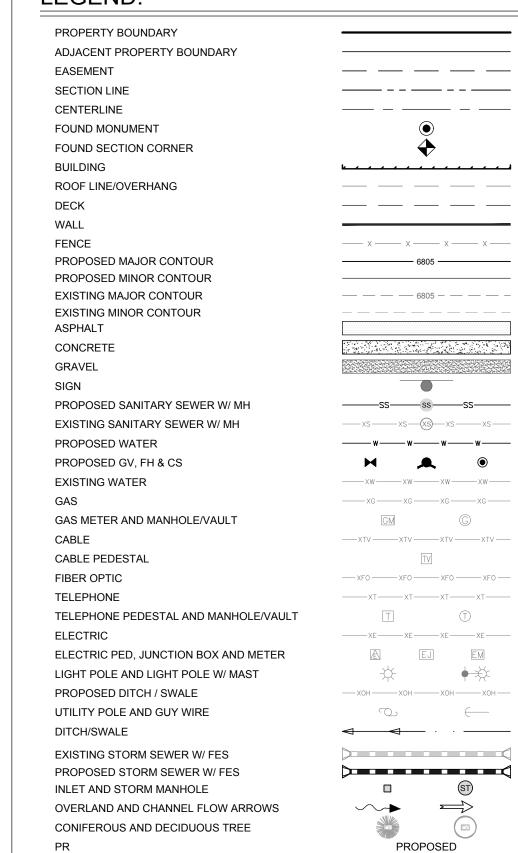
RCRBD RECORD SET

PROPERTY DESCRIPTION:

THAT PARCEL OF LAND DESCRIBED IN DEED RECORDED APRIL 21, 1975 IN BOOK 403 AT PAGE 471 IN THE ROUTT COUNTY RECORDS;

COUNTY OF ROUTT, STATE OF COLORADO.

LEGEND:



NOTES:

EX

- 1. UTILITIES ARE SHOWN PER APPARENT SURFACE EVIDENCE TOGETHER WITH RECORD INFORMATION. IF MORE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES ARE REQUIRED, THE UTILITY WILL HAVE TO BE VERIFIED BY FIELD POTHOLING. LANDMARK CONSULTANTS, INC. AND THE SURVEYOR OF RECORD SHALL NOT BE LIABLE FOR THE LOCATION OF OR THE FAILURE TO NOTE THE LOCATION OF NON-VISIBLE UTILITIES.
 - ANY PERSON WHO KNOWINGLY REMOVES, ALTERS OR DEFACES ANY PUBLIC LAND SURVEY MONUMENT OR LAND MONUMENT OR ACCESSORY, COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO STATE STATUTE 18-4-508, C.R.S.

EXISTING

- 3. THIS SITE CONTAINS A CALCULATED AREA OF 3.56 ACRES.
- 4. PORTIONS OF THE SUBJECT PROPERTY ARE LOCATED WITHIN FLOOD ZONE A, AREA SUBJECT TO THE 1% ANNUAL CHANCE FLOOD, NO BASE FLOOD ELEVATIONS DETERMINED, BASED ON GRAPHIC INTERPRETATION OF THE F.E.MA. FLOOD INSURANCE RATE MAP NUMBER 08107C1039D, WITH AN EFFECTIVE DATE OF FEBRUARY 4, 2005.
- 5. THE MEASURED DISTANCES SHOWN HEREON ARE IN U.S. SURVEY FEET.

GIS/Addressing OK EK 20160616

∞ర

SHEET

Of 1 Sheets

RCRBD **RECORD SET**

STRUCTURAL MECHANICAL ENGINEERING DESIGN DRAFTING SERVICES

JAMES STEGMAIER, P.E. 1794 KAMAR PLAZA P.O. BOX 772192 STEAMBOAT SPRINGS, CO 970-870-9229 yvengr@yvengr.com

JOB NO: 16-024

REVISIONS NO. DATE DRAWN

SHEET NUMBER

YAMPA VALLEY ELECTRIC ASSN. INC. No changes to existing service or meter. Approved: Jerry Nanio - YVEA.

enclosed, covered or concealed. Violation shall result in termination of service.

A METAL BUILDING FOR:

ROUTT COUNTY ROAD & BRIDGE

24500 COUNTY ROAD 27 OAK CREEK, COLORADO 30467

LEGAL DESCRIPTION

A PARCEL OF LAND LOCATED IN THE E_2^{\perp} OF SECTION 31, TOWNSHIP 4 NORTH, RANGE 35 WEST OF THE 6TH P.M. STATE OF COLORADO ZONINO = 1

> **ELECTRICAL SUBJECT TO APPROVAL AT FIELD INSPECTION**

Meter and meter panels are to be located as described by YVEA. They shall not be

GENERAL NOTES:

I. ALL CONSTRUCTION AND MATERIALS SHALL BE SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, PERMITS AND LAWS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL NEW CONSTRUCTION ON THE SITE

3. THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS AND CONDITIONS BEFORE STARTING WORK. IF A DISCREPANCY APPEARS BETWEEN CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS, NOTIFY YAMPA VALLEY ENGINEERING AT ONCE.

4. THE JOB SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDUCT. THE JOB SITE SHALL BE FREE OF DEBRIS AND TRASH. MATERIALS AND EQUIPMENT SHALL BE REASONABLY PLACED. EACH SUB-CONTRACTOR ON COMPLETION OF HIS/HER PHASE OF THE JOB SHALL REMOVE ALL DEBRIS, TRASH AND EQUIPMENT.

5. ALL MATERIALS AND EQUIPMENT ON THE JOB SITE SHALL BE STACKED AND PROTECTED PROPERLY TO PREVENT DAMAGES AND OR DETERIORATION.

6. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS. ALL DIMENSIONS ARE TO FACE OF FRAMING AND FACE OF CONCRETE. ALL INTERIOR STUDS ARE TO BE 2X4 UNLESS OTHERWISE NOTED. ALL EXTERIOR STUDS ARE TO BE 2X6 UNLESS OTHERWISE NOTED.

7. CONTRACTOR SHALL PROVIDE ALL BLOCKING, BACKING, AND FRAMING FOR LIGHT FIXTURES AND ELECTRICAL EQUIPMENT.

8. PROVIDE ALL ACCESS PANELS TO ALL ENCLOSED SPACES, VOIDS AND ATTICS AS REQUIRED BY GOVERNING CODES.

APPLICABLE CODES OF 2016 2009 INTERNATIONAL BUILDING CODE 2009 INTERNATIONAL MECHANICAL CODE 2009 INTERNATIONAL PLUMBING CODE 2009 TERNATIONAL ENERGY CONSERVATION CODE 2001 TATIONAL ELECTRIC CODE 2014

CODE ANALYSIS
YAMPA VALLEY ENGINEERING P.O. BOX 772/92 STEAMBOAT SPRINGS, CO 80477 970-870-9229

PROJECT LOCATION: 24500 COUNTY ROAD 27

PROJECT DESCRIPTION: TO ADD A NEW METAL BUILDING TO THE EXISTING METAL BUILDING WITH AN 2-HOUR 12' X 12' RATED WELDING AREA AND AN ADDENDUM TO THE PREVIOUS PERMITTED BREAK ROOM

THIS CODE STUDY IS BASED ON THE 2009 INTERNATIONAL BUILDING CODE & 2009 INTERNATIONAL ENERGY CONSERVATION CODE

BASIC BUILDING DESCRIPTION: TYPE OF CONSTRUCTION = IIIB-NON-SPRINKLERED 2-HOUR FIRE SEPARATION BETWEEN THE WELDING AREA AND THE REST OF THE BUILDING.

<u>HEIGHT OF BUILDING:</u>

ACTUAL HEIGHT OF BUILDING = $29'-6_4''+-$ FT. ALLOWED BUILDING HEIGHT = 55'-0''

<u>SQUARE FOOTAGE</u> FIRST STORY-ACTUAL SQ.FT.=6,000. ALLOWED SQ.FT.=12,000

STORIES

ACTUAL STORIES = | ALLOWED STORIES = 2

EXIT/EGRESS FIRST FLOOR:

VEHICLE REPAIR/WAREHOUSE: GROUP F-I REQ'D EXITS = 2, ACTUAL EXITS = 2, MAX. TRAVEL DISTANCE = 75'-0" ACTUAL MAX. TRAVEL DISTANCE = 75'-0"

DOOR SWING = ANY WELDING AREA: GROUP H-3 REQ'D EXITS =1, ACTUAL EXITS = 2

2-HOUR FIRE SEPARATION BETWEEN ALL OTHER OCCUPANTS.

OCCUPANTS: = 6,000 SQ.FT/500 = 12 OCC.

<u>VENTILATION REQUIREMENTS:</u> VENTILATION REPAIR GARAGES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. THE VENTILATION SYSTEM SHALL BE CONTROLLED AT THE ENTRANCE TO THE GARAGE.

ACCESSIBILITY REQUIREMENTS: AT GROUND LEVEL ENTRANCE AND A UNI-SEX AD.A BATHROOM.

SHEET INDEX

ARCHITECTURALS

TITLE SHEET INFO SHEET

SITE PLAN

PROPOSED MAIN LEVEL FLOOR PLAN PROPOSED MAIN LEVEL FLOOR PLAN PROPOSED UPPER LEVEL FLOOR PLAN

SECTION AND DETAILS

STRUCTURALS & M.E.P.

RCRBD

RECORD SET

FOUNDATION PLAN FOUNDATIONS DETAILS

MEZZANINE FRAMING PLAN

HVAC PLAN HVAC PLAN

HVAC SCHEDULE & NOTES SCHEDULES & LINE DIAGRAM

PANEL SCHEDULES AND LOAD CALCULATIONS

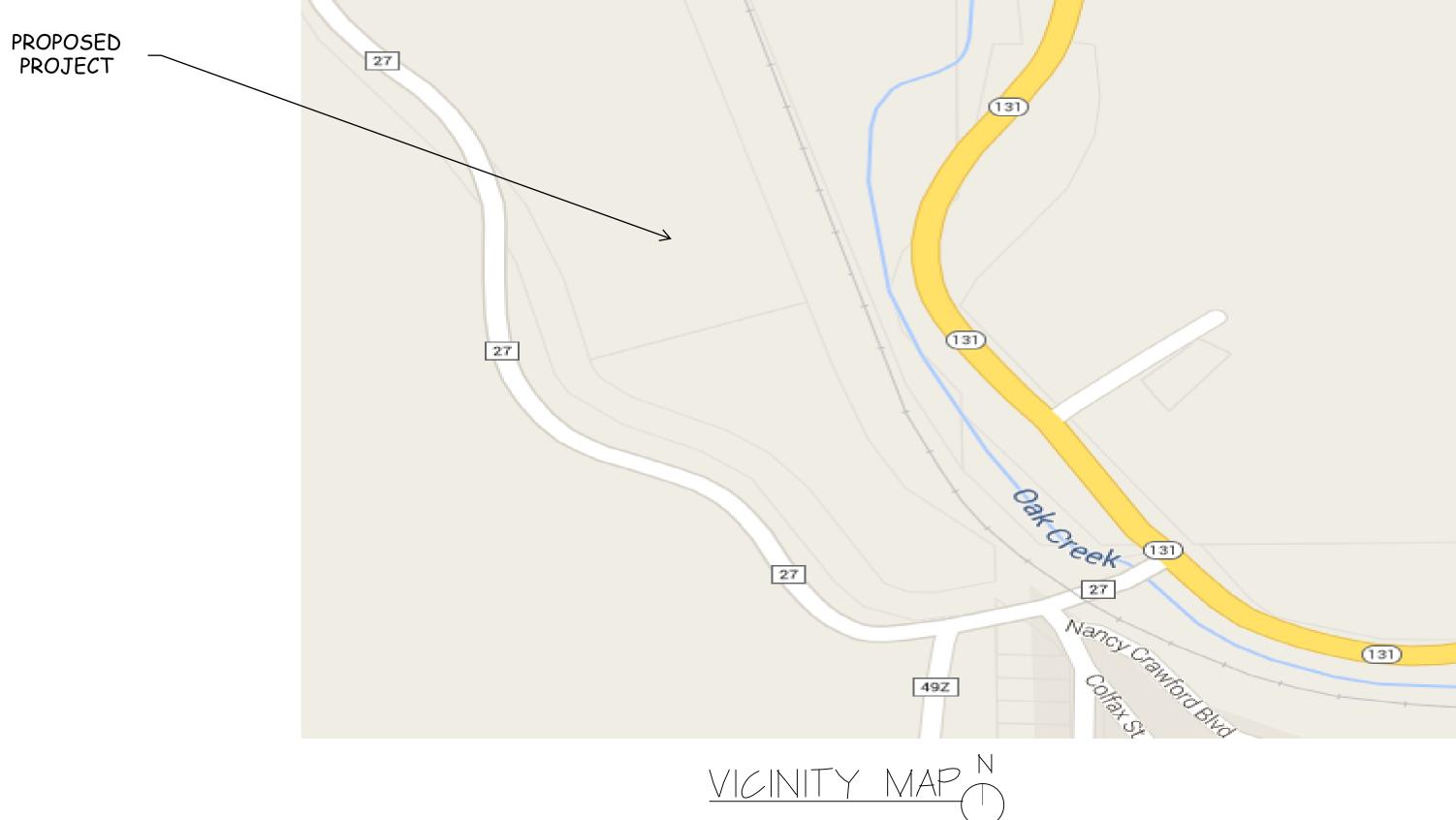
E-200 SPECIFICATIONS PLUMBING PLAN PLUMBING PLAN

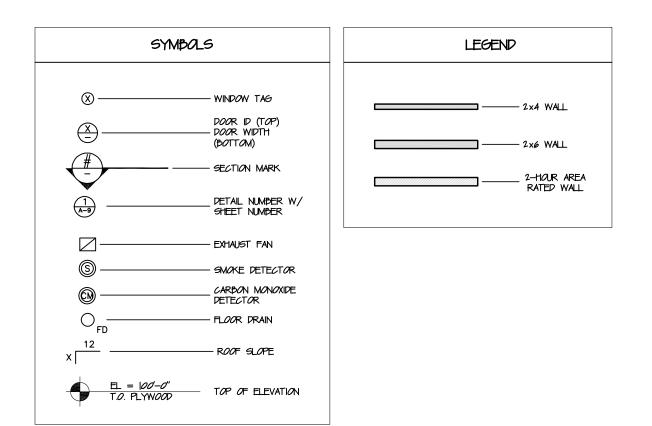
LINE DIAGRAM & NOTES



STRUCTURAL MECHANICAL **ENGINEERING** DESIGN DRAFTING SERVICES

JAMES STEGMAIER, P.E. 1794 KAMAR PLAZA P.O. BOX 772192 STEAMBOAT SPRINGS, CO 970-870-9229 yvengr@yvengr.com





PROJECT DIRECTORY

<u>OWNER</u> ROUTT COUNTY P.O. BOX 773598 STEAMBOAT SPRINGS, CO 80477

LICENSED DESIGN PROFESSIONAL &

STRUCTURAL ENGINEER YAMPA VALLEY ENGINEERING, INC. 1794 KAMAR PLAZA

970-870-9229 yvengr@yvengr.com

P.O. BOX 772/92 STEAMBOAT SPRINGS, COLORADO 80477

CONTRACTOR

TYKE PIERCE 386|5 KLIEN Rd STEAMBOAT SPRINGS, COLORADO 80487 970-879-8568

tpierce@tykepierceconstruction.com

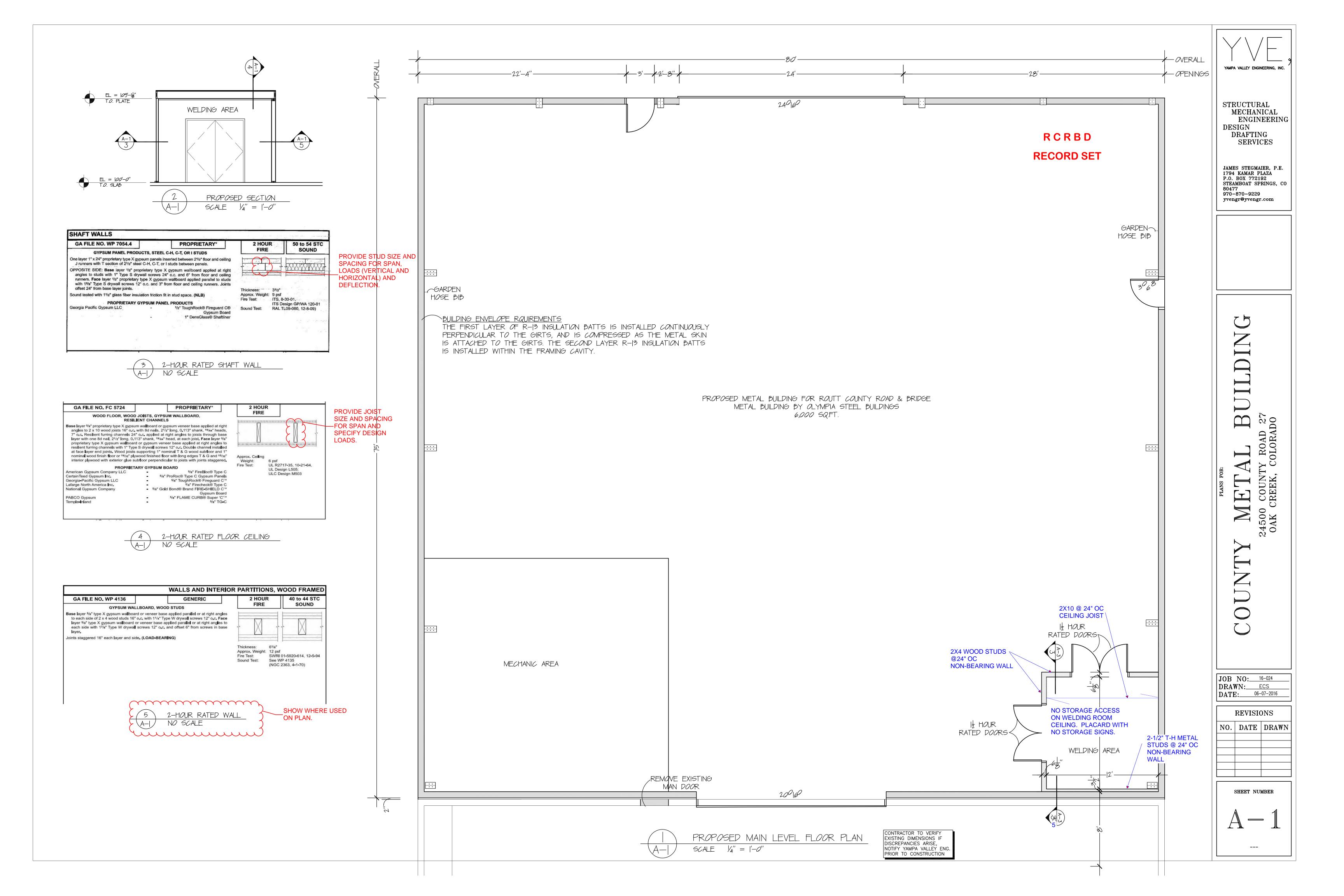
ELECTRICAL SUBJECT TO APPROVAL AT FIELD INSPECTION

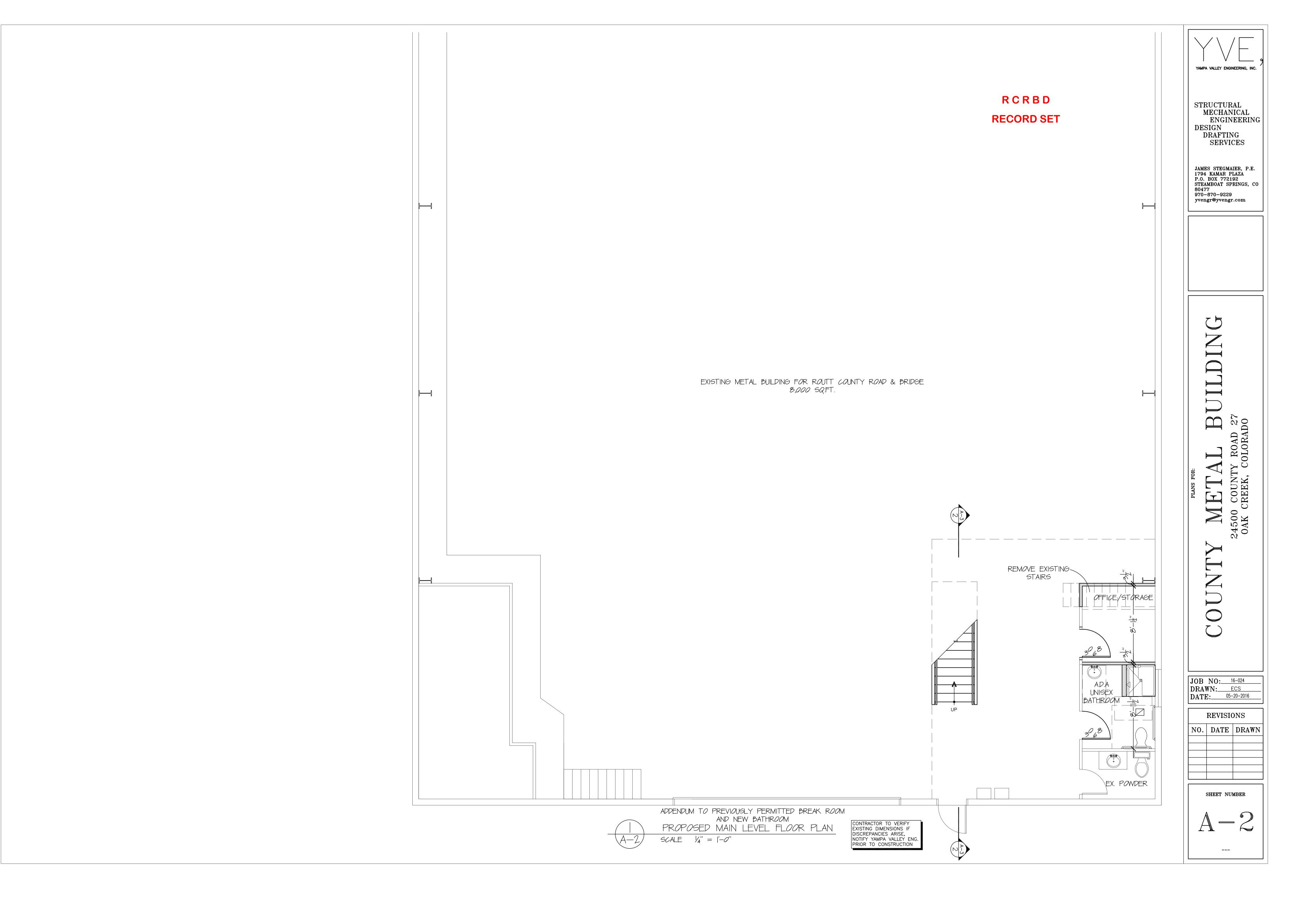
DATE: 05-20-2016 REVISIONS NO. DATE DRAWN SHEET NUMBER

JOB NO: 16-024 DRAWN: ECS

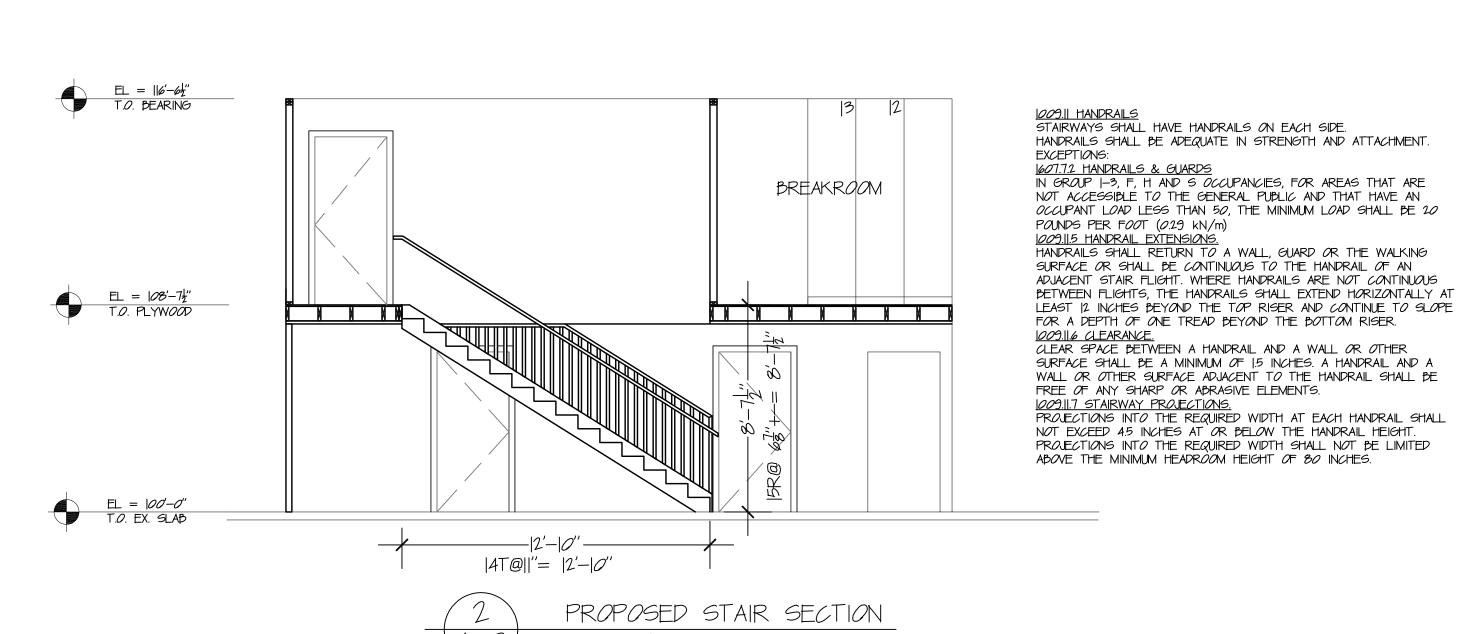
24500 COUNTY OAK CREEK, (

MET





STAIRWAYS SHALL HAVE HANDRAILS ON EACH SIDE.



NOTES FOR EXIT REQUIREMENTS FOR THE BREAK ROOM ADDENDUM.

EXIT ENGLOSURES: A STAIRWAY IS NOT REQUIRED TO BE ENCLOSED

WHEN THE STAIRWAY SERVES AN OCCUPANT LOAD LESS THEN 10 AND THE STAIRWAY COMPLIES WITH EITHER EXCEPTION | OR | 2 BASED ON SECTION | 022

THE MEANS OF EGRESS ILLUMINATION: INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED. BASED ON SECTION 1006. DOOR SWING: IS BASED ON SECTION 1008.12 HANDRAILS: STAIRWAYS SHALL HAVE HANDRAILS ON EACH SIDE PER.

SEC. 1009.12 EXIT SEPARATION: IN AREAS WHERE 2 EXITS ARE REQ'D, THE MINIMUM SEPARATION IS 1/2 OF THE MAXIMUM DIAGONAL OF THE AREA OR FLOOR MEASURED IN A STRAIGHT LINE BETWEEN EXITS OR EXIT ACCESS DOORWAYS.

BASED ON SECTION 1015.2.1. EGREGS DOORS: SHALL BE READILY OPENABLE FROM THE EGREGS THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. BASED *O*N SECTION 1008.1.9 TRAVEL DISTANCE: IS BASED ON SECTION 1016.1

YAMPA VALLEY ENGINEERING, INC STRUCTURAL MECHANICAL **ENGINEERING** DESIGN DRAFTING SERVICES

JAMES STEGMAIER, P.E. 1794 KAMAR PLAZA P.O. BOX 772192 STEAMBOAT SPRINGS, CO 970-870-9229 yvengr@yvengr.com

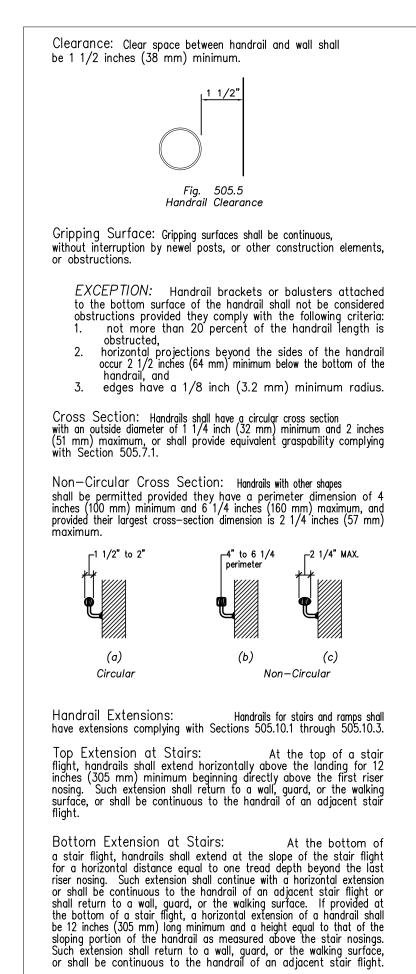
4500 COUNTY

JAK CREEK, C 24

JOB NO: 16-024 DRAWN: ECS DATE: 06-07-2016

REVISIONS NO. | DATE | DRAWN

SHEET NUMBER





PROJECT NUMBER:	U1600196A	
PROJECT NAME:	Routt County Road & Bridge	
PROJECT LOCATION:	Oak Creek CO	
	Routt County Road & Bridge	

YES NO

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 metal building system in conformance with these drawings, OSHA requirements and either MBMA or CSA S16 standards pertaining to proper erection. This includes, but is not limited to, the correct use of temporary guys and bracing where needed for equaring, plumbing, and securing the structural and secondary framing. Secondary wall framing members (girts or bar joits) are not designed to function as a work platform or provide safety tis—off attachment in accordance with OSHA requirements.

Secondary roof framing members (purlins or bar joits) are not designed to provide safety tis—off attachment in accordance with OSHA requirements.

 A325 & A490 Bolt tightening requirements:
It is the responsibility of the erector to ensure proper bolt tightness in accordance with applicable regulations. See the <u>RCSC Specification for Structural Joints Using A325 or A490 Bolts</u> or CAN/CSA 516 "Limit States Design of Steel Structures" for more information.
The following orited may be used to determine the bolt tightness. The following criteria may be used to determine the bolt tightness (i.e., "snug-light" or "fully-pretensioned"), unless required otherwise by local jurisdiction or contract requirements:

iocal jurisdiction or contract requirements:

B) All A325 bolts in primary framing (rigid frames and bracing)
may be "snug-tight", except as follows:

"Fully-pretension" A325 bolts if;
a) Building supports a crane system with a capacity greater
than 5 tons.
b) Building supports machinery that creates vibration, impact
or stress-reversals on the connections. The Engineer-ofRecord for the project should be consulted to evaluate
for this condition.
c) The project site is located in a high seismic area. For
IBC-based codes, "High Seismic Area" is defined as

"Seismic Design Category" of "D", "E", or "F". See the
"Building Loads" section of this page for the defined
seismic design category for this project.
d) Any connection designated in these drawings as "A325—SC".

"Silp-Critical (SC)" connections must be free of paint, oil,
or other materials that reduce friction at contact surfaces.
c) in Canada, all A325 and A930 bolts shall be "fully pre-tensioned", except for
secondary members (purlins, girts, opening framing, etc.) and flange braces
connections may always be "saug-tight", unless indicated otherwise in these
drawings.

The metal building supplier shall be notified prior to any field modifications.

drawings.

3) The metal building supplier shall be notified prior to any field modifications.

Modifications shall be approved by the metal building supplier before work is

Modifications shall be approved by the metal building supplier before work is undertaken.

4) Common Abbreviations:

a) TP UND - Typical Unless Noted Otherwise

b) SLV - Short Leg Vertical

c) LLV - Long Leg Vertical

d) NS & FS - Near Side and Far Side

d) NS & FS - Near Side and Far Side

d) NS & FS - Near Side and Far Side

d) NS & FS - Near Side and Far Side

d) NS & FS - Near Side and Far Side

d) NS & FS - Near Side and Far Side

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d) NS & FS - Near Side and Far Side

such framework unless

such framework is safely bolted, welded, or otherwise adequately secured.

Purlins and girts shall not be ead as a walking/working surface when installing safety systems, after all permanent bridging has been installed and fall protection is provided.

S) 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.

9) All lifting devices must meet OSHA or MSHA standards and in no case is it acceptable to use structural members supplied by the MBS as a spreader bar or lifting devices must meet OSHA or MSHA standards and in no case is it acceptable to use structural members supplied by the MBS as a spreader bar or lifting devices.

General Design Notes

1) All structural steel sections and welded plate members are designed in accordance with ANSI/AISC 360 "Specifications for Structural Steel Buildings" or the CAN/CSA 515 "Limit States Design of Steel Structures", are required by the specified building code.

2) All welding of structural steel in based on either AWS D1.1 "Structural Welding Code — Steel" or CAN/CSA W59 "Welded Steel Construction (Metal Arc Welding)", as required by the specified building code.

3) All cold formed members are designed in accordance with ANSI/AISI S11 or CAN/CSA S136 "Specifications for the Design of Cold Formed Steel Structural Members", or required by the specified building code.

4) All welding of cold formed steel is based on AWS D1.3 "Structural Welding Code — Sheet Steel" or CAN/CSA W59 "Welded Steel Construction (Metal Arc Welding)", as required by the specified building code.

5) This Metal Building Supplier facility is IAS AC-472 Accredited and CAN/CSA A600 and W67.1 Certified (if applicable) for the design and manufacturing of Metal Building Systems.

manufacturing of Metal Bullding Systems.

6) If Jolets 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 1926.758 of the OSHA safety standards for steel erection, dated January 18, 2001.

Material Specifications

rtate and riange Material:	
5" - 12" Wide, to 1 1/4" Th	A529 Grade 55
Othera	
Built-Up Structural Web	
Hot-Rolled Structural	
Structural Tube	
Structural Pipe	
Cold-Formed Structural	- A1011 or A1039 SS (or HSLAS Class 1) Grade
Classic Roof Panel	
CFR / VR16 Roof Panel	A792 Grade 50, Class 1
All Wall Panel Profiles	
Rod Bracing	
Welds	- AWS D1.1/D1.3 or CSA W59 per Bullding Code
High-Strength Bolts	A325 Type 1 or A490 Type 1 Heavy Hex
Machine Bolts	A307 Grade A Hex

		PRIMARY AND SECONDARY STEEL PRIMER COLOR: RED
R00	F SH	HEETING, TYPE: CR 26 GAGE, FINISH: Polar White SP
ROOF PA	ANEL	CLIP TYPE: XN/A ☐TALL ☐SHORT ☐UTILITY ☐FIXED ☐FLOATING
	THE	RMAL BLOCKS: ☐YES XNO EPS FOAM SPACER: ☐YES XNO
ADDITION	TO THE	ETHOD (FOR CFR ONLY): "ROLL LOCK"TM E DETAIL PAGES FOR "VISE LOCK"TM AMING INFORMATION "VISE LOCK 360"TM SITE CFR DECK, TYPE: N/A GAGE, FINISH:
		F LINE TRIM, PAINTED: Polar White SP
		WALL SHEETING, TYPE: AW 26 GAGE, FINISH: Fox Gray SP
		CORNER TRIM FINISH: Polar White SP
EXTE	RIOR	BASE TRIM, PAINTED: Polar White SP
FRAME	D OF	PENING TRIM, PAINTED: Polar White SP
WALL FRAM	ED (DPENING, SIZES: FSW (1) 3'-0" x 3'-0", sill at 4'-0"
		BSW (1) 3'-0" x 3'-0", sill at 4'-0"
		LEW (1) 24'-0" x 16'-0" (1) 3'-0" x 7'-0"
		REW none
INTER	IOR	WALL SHEETING, TYPE: <u>CL</u> <u>26</u> GAGE, FINISH: <u>Galvalume</u>
INTE	RIOR	CEILING LINER, TYPE: none GAGE, FINISH:
INTE	RIOR	WALL TRIM, PAINTED: Galvalume
YES		
	X	DOWNSPOUTS PAINTED:GUTTERS PAINTED:
×		WALKDOORS, QUANTITY: (1) 3070 PAINTED: WHITE
	X	WINDOWS: PAINTED:
×		INSULATION (NOT BY MBS), ROOF: 4 INCH WALLS: 6 INCH
	×	CRANES (SEE CRANE PLAN FOR ADDITIONAL CRANE INFORMATION)
	X	MEZZANINE (SEE MEZZANINE PLAN FOR ADDITIONAL MEZZANINE INFO)
	X	WALL TRANSLUCENT PANELS:
	X	ROOF TRANSLUCENT PANELS:
		INSULATED PANELS YES NO NO
	X	PIPE JACKS, SIZE:QUANTITY:
	X	ROOF FRAMED OPENINGS, SEE ROOF FRAMING PLAN FOR SIZES
	X	RIDGE VENTS, 10'-0" LONG X 9" THROAT. QUANTITY:

ERECTOR NOTE:

ALTERNATE FASTENERS HAVE BEEN SUBSTITUTED ON THIS BUILDING. 2" WALL FASTERNERS HAVE BEEN SUPPLIED FOR WALL PANEL TO GIRT ATTACHMENT.
WHERE THE DRAWINGS INDICATE AN H1040 STRUCTURAL FASTENER,
H1045 or H1047 FASTENERS WITH WASHERS HAVE BEEN SUPPLIED.
WHERE THE DRAWINGS INDICATE AN H1060 TRIM FASTENER,
H1061 FASTENERS WITH WASHERS HAVE BEEN SUPPLIED.

FOR OCCUPANCY CATEGORY LOR II BUILDINGS, IBC ALLOWS FOR SINGLE STORY BUILDINGS TO HAVE NO LIMIT FOR SEISMIC STORY DRIFT. PLEASE NOTE THAT ANY INTERIOR WALLS, PARTITIONS, CEILINGS, AND EXTERIOR WALLS SHOULD BE DETAILED (BY OTHERS) TO ACCOMMODATE THIS STORY DRIFT.

THIS BUILDING SYSTEM DESIGN IS BASED ON UNIFORMLY APPLYING THE CONTRACT—SPECIFIED LIVE LOAD AND ROOF SNOW LOAD. IN ADDITION, THE DESIGN IS BASED ON APPLYING A CODE-DEFINED LIVE LOAD (INCLUDING APPLICABLE REDUCTIONS) AND A CODE-DEFINED SNOW LOAD (BASED ON CONTRACT-SPECIFIED GROUND SNOW) FOR ALL PARTIAL LOADING AND UNBALANCED SNOW LOAD CONDITIONS.

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
TOP OF PARAPET HEIGHT:
BACKER PANEL, TYPE: GAGE, FINISH:
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:
EAVE EXTENSION (CONCEALED BEAM), PROJECTION:
SOFFIT PANEL, TYPE: GAGE, FINISH:
SOFFIT TRIM AT BUILDING LINE PAINTED:
RAKE EXTENSION, PROJECTION:
SOFFIT PANEL, TYPE: GAGE, FINISH:
SOFFIT TRIM AT BUILDING LINE PAINTED:
PARTITION WALL SHEETING
PANEL TYPE: GAGE, FINISH:
PARTITION WALL TRIM COLOR:
₩ WAINSCOT
WALL PANEL, TYPE: GAGE, FINISH:
BASE TRIM PAINTED:JAMB TRIM PAINTED:
TRANSITION TRIM PAINTED:

DUE TO THE PROXIMITY OF AN EXISTING BUILDING, STRUCTURAL SEPARATION FROM THE MBS STRUCTURAL STEEL IS REQUIRED. THE ENGINEER OF RECORD (NOT THE METAL BUILDING SUPPLIER) IS RESPONSIBLE FOR ASSURING THAT THE MBS SEISMIC STORY DRIFT OF **1.00 INCH** PLUS THE STORY DRIFT OF THE EXISTING BUILDING IS ADEQUATELY PROVIDED BETWEEN THE NEW AND EXISTING STRUCTURES.

INSULATION NOT TO EXCEEDE 1.5 PSF.

FOR BUILDING

DEPARTMENT REVIEW

BUILDING LOADS

DESIGN CODE: IBC 09
ROOF LIVE LOAD: 20.00 PSF MBMA OCC. CLASS: II
GROUND SNOW LOAD: 78.5 PSF SNOW EXP. FACTOR, Ce: 1.00 SNOW IMPORTANCE FACTOR, Is: 1.00
WIND: 90 MPH WIND IMPORTANCE FACTOR, IW: 1.00 EXPOSURE: C
UL 90 NO Classic Roof-Const. No. 161; Classic Roof w/ Translucent Panel-Const. No. 167 CFR Roof-Const. No. 552; CFR Roof w/ Translucent Panel-Const. No. 590; Composite CFR Roof-Const. No. 552A; VR16 Roof-Const. No. 332.
SEISMIC INFORMATION Ss: 0.270 S1: 0.074
Design Sds/Sd1: 0.285 / 0.118 Site Class: D
Seismic Imp. Factor: 1.00 Seismic Design Category: B
Analysis Procedure: Equivalent Lateral Force Method
Basic SFRS; Ordinary Steel Moment Frames &
Ordinary Steel Conc. — Braced Frames
NOTES: 1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CELLINGS, ETC., ARE SUSPENDED FROM ROOP MEMBERS, CONSULT THE M.B.S. IF THESE CONCENTRATED LOADS EXCEED 500 POUNDS (USING THE WEB MOUNT DETAIL) OR 200 POUNDS (USING THE HEADS. MOUNT DETAIL), 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.

	BUILDING	1
ROOF DEAD (PSF):	3.60	
PRL COL (PSF):	1	
SEC. COL. (PSF):	1	
SNOW Ct:	1.00	
SNOW Cs;	0.790	~
ROOF SNOW (PSF):	78.50	1
WIND ENCLOSURE:	Closed	\sim
GCpi:	*-0.18	1
SEISMIC R:	3	
CEICHIO Con	O OOE	

BASE SHEAR (KIPS): 12.14

RCRBD RECORD SET



ERECTION MANUALS REQUIRED						
(EREC	CTION MANUA	LS ARE	E SHIPPEI	WITH THE		
55100				110 010114)		
☐ CFR ROOF	☐ H9700	OR [J H8260	SINGLE CURB (H9850)		
CLASSIC ROOF	☐ H9420	OR D	⊠ H820	DOUBLE CURB (H9800)		
☑ WALL SHEETING	☐ H9430	OR D	X H8300	□ VR16 II (H9925)		

DRAWING INDEX

COVERSHEET	C1, C2, C3
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COLUMN BASE REACTIONS	F2
STRUCTURAL/SHEETING DRAWINGS	E1, E2, E3, E4, E5, E6, E7, E8

DETAILS D1. D2. D3. D4. D5. D6. D7. D8. D9

BUILDING 400 ISLAND AVENUE McKEES ROCKS, PA OLYMPIA BRIDGE CO BRIDGE န္က လို့ ంర / ROAD ROAD CUSTOMER NAME
ROUTT COUNTY F
STEAMBOAT SPI
JOB NUMBER COUNTY I ROUTT OAK C ADO LIC TONAL

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PMG A

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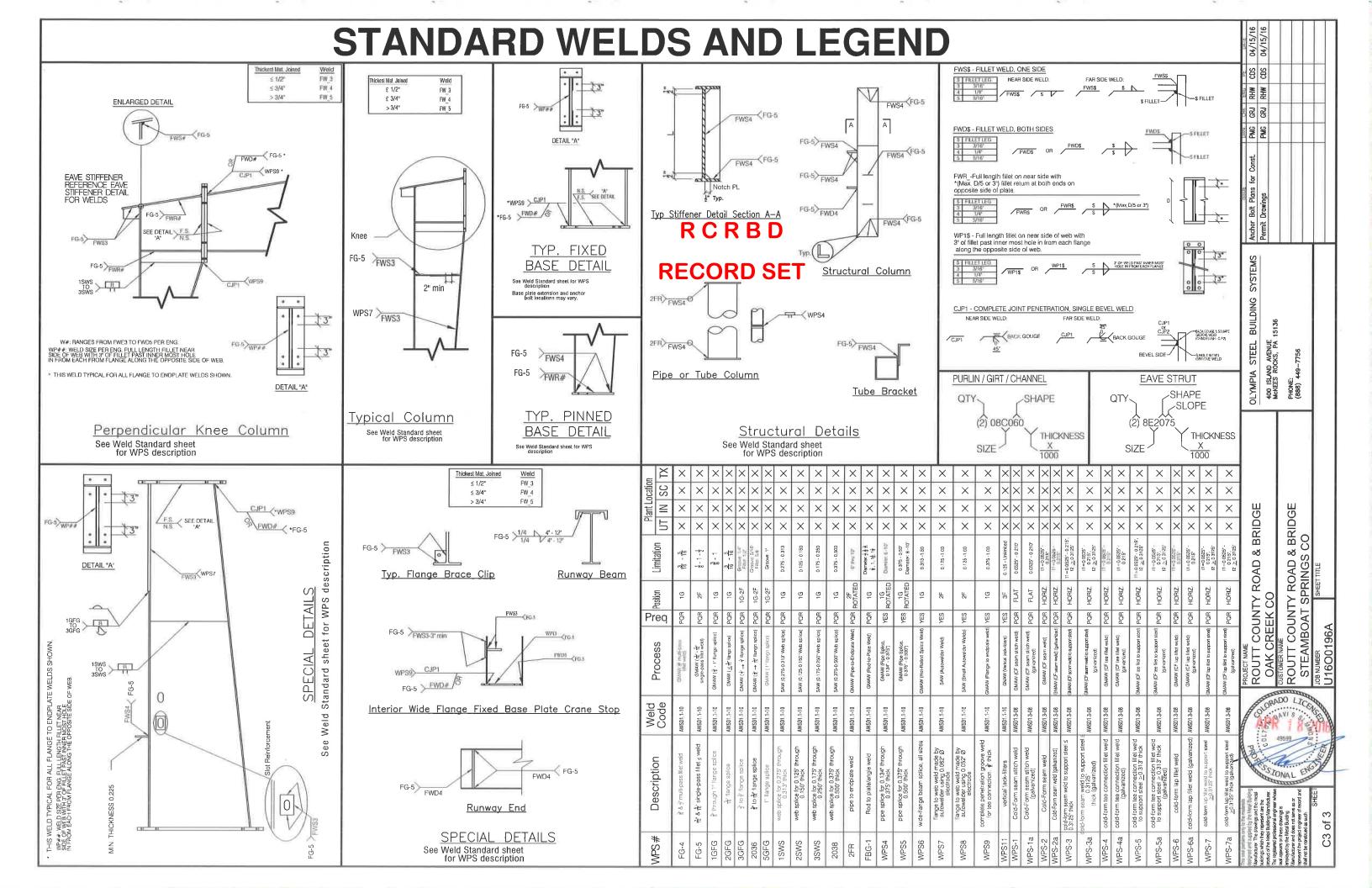


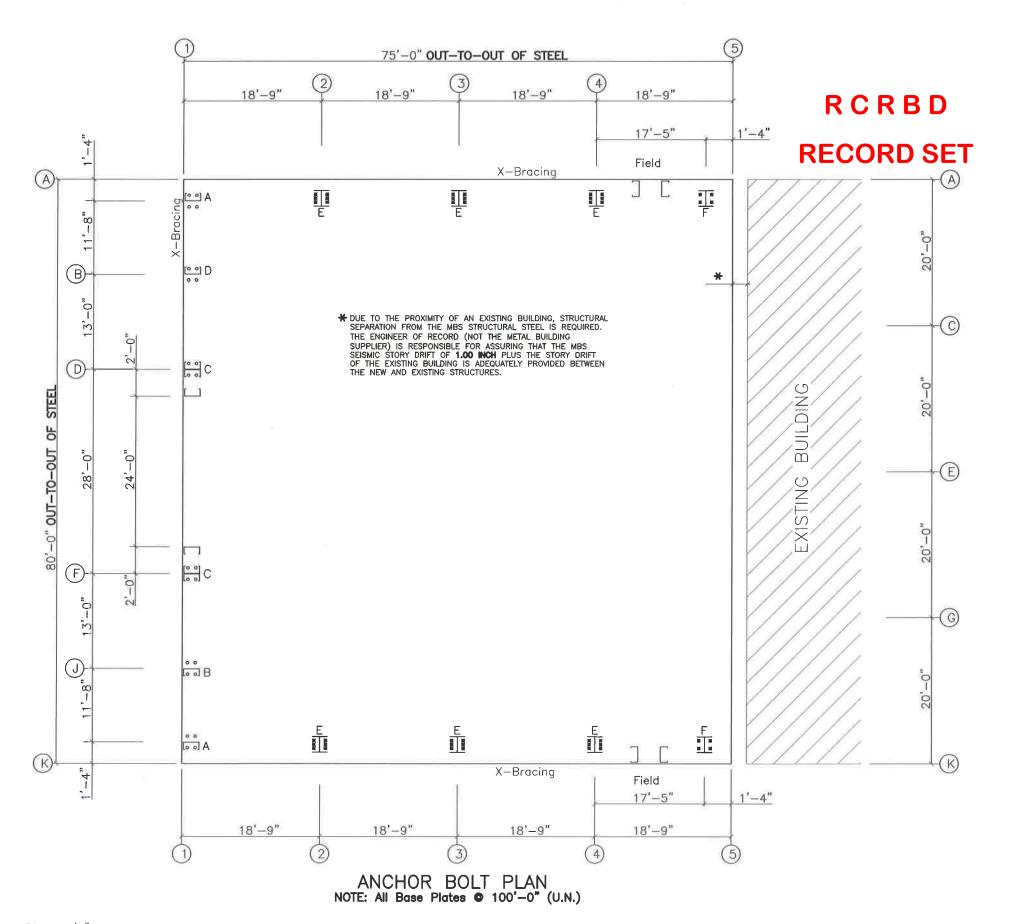
PROJECT NUMBER:	U1600196A
PROJECT NAME:	Routt County Road & Bridge
PROJECT LOCATION:	Oak Creek CO
CUSTOMER:	Routt County Road & Bridge

R C R B D ECORD SET

1) 2) 3)	RUCTURAL TESTS AND INSPECTION: THE SPECIAL INSPECTOR'S DUTIES ARE AS DESCRIBED IN SPECIAL INSPECTION. THE SPECIAL INSPECTOR'S DUTIES ARE AS DESCRIBED IN IBC 1704.3 AND IBC 1 ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY EMPLOYED BY THE OWNER OR ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND INSPECTION FIRM WITH A SCHEDULE TO FACILITATE THE PROPER COORDINATION OF WORL PORTIONS OF WORK REQUIRING SPECIAL INSPECTION:			RE
	ENCY RESPONSIBLE FOR INSPECTION AND TESTING TO BE NAMED BY OWNER LATER.	YES	NO	N/A
A. 1.	STRUCTURAL STEEL: MILL REPORTS AND IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE) SAMPLING AND TESTING OF SPECIMENS			
	SAMPLING AND TESTING OF SPECIMENS	Ш		Ш
2.	ALL STRUCTURAL WELDING (INCLUDES DECKING AND WELDED STUDS), EXCEPT WELDING IN APPROVED SHOPS PER IBC 1704.2.2 ULTRASONIC TESTING OF FULL PENETRATION WELD CONNECTIONS AT MOMENT FRAMES, BRACED FRAMES, BEAM SPLICES, AND FIELD WELDS.	H		H
3. C	STRUCTURAL LIGHT GAGE METAL FRAME WELDING	Ш	_	
	HIGH STRENGTH BOLT A325SC AND A490SC (PRETENSION VERIFICATION)			
2.	HIGH STRENGTH BOLT A325N AND A490X (PER COVER SHEET NOTES)		닖	님
3.	EXPANSION/ADHESIVE ANCHORS IN CONCRETE OR MASONRY		ш	\Box

						110000
	OLYMPIA STEEL BUILDING SYSTEMS	Anchor Bolt Plans for Const. PMG GRJ RHW CDS 04/15/16	PMG	82 F	SQS **	04/15/16
I Y KUAU & BRIUGE		Permit Drawings	PMG	PING GRJ RHW CDS	M CDS	04/15/16
93	400 ISLAND AVENUE McKEES ROCKS, PA 15136					
	ÜN ÖN Ö					
I Y KOAD & BRIDGE	(988) 449–7756					
SPRINGS CO				H		
) I I I I I I I I I I I I I I I I I I I						





ANCHOR BOLT SUMMARY

	Qty	Locate	Dia (in)	Туре	Proj (in)
O	24	Endwall	3/4"	F1554	3.00
Ø	44	Frame		F1554	3.00

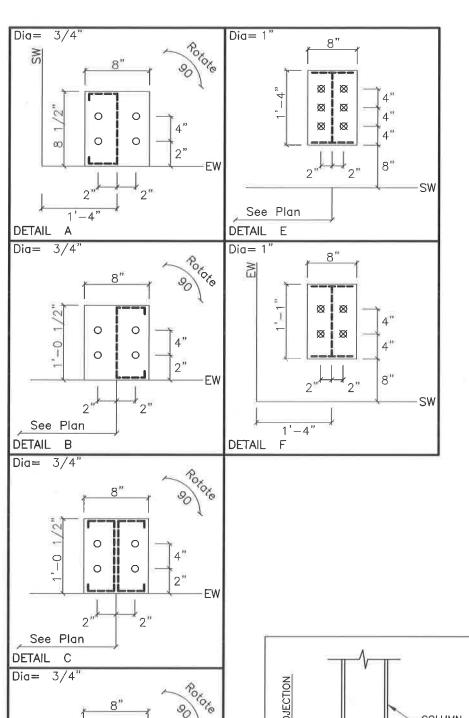
ANCHOR BOLT PLAN

GENERAL NOTES

- 1. THE SPECIFIED ANCHOR ROD DIAMETER
 ASSUMES F1554 GRADE 55 UNLESS NOTED
 OTHERWISE. ANCHOR ROD MATERIAL OF
 EQUAL DIAMETER MEETING OR EXCEEDING
 THE STRENGTH REQUIREMENTS SET FORTH
 ON THESE DRAWINGS MAY BE UTILIZED AT
 THE DISCRETION OF THE FOUNDATION
 DESIGN ENGINEER. ANCHOR ROD EMBED—
 MENT LENGTH SHALL BE DETERMINED BY
 THE FOUNDATION DESIGN ENGINEER.
- METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
- 3. ALL ANCHOR RODS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AS WELL AS ALL CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY METAL BUILDING MANUFACTURER.
- 4. THIS DRAWING IS NOT TO SCALE.
- 5. FINISHED FLOOR ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
- 6. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.
- ANCHOR RODS ARE REQUIRED ONLY IN THE QUANTITIES SPECIFIED. BASEPLATES MAY BE FABRICATED WITH MORE HOLES THAN NEEDED FOR THIS PROJECT.
- 8. THE ANCHOR BOLT LOCATIONS PROVIDED BY METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. PLEASE NOTE THAT THESE REQUIREMENTS MAY NOT SATISFY ALL ANCHOR BOLT CONCRETE EDGE DISTANCE REQUIREMENTS DEPENDING ON THE DETAILS OF THE FOUNDATION DESIGN. BECAUSE FOUNDATION DESIGN IS NOT WITH-IN THE METAL BUILDING MANUFACTURER'S SCOPE OF WORK, IT IS THE RESPONSIBIL-ITY OF THE QUALIFIED PROFESSIONAL DESIGNING THE FOUNDATION TO MAKE CERTAIN THAT SUFFICIENT CONCRETE EDGE DISTANCE IS PROVIDED FOR THE ANCHOR BOLTS IN THE DETAILS OF THE FOUNDA-TION DESIGN.

4	CDS	CDS							
1 2013	RHW	RHW							
CHA	PMG GRJ	GRJ							
2000	PMG	PMG				I			
500	Anchor Bolt Plans for Const.	Permit Drawings							
	OLYMPIA STEEL BUILDING SYSTEMS		ACC ISLAND AVENUE MCKEES ROCKS, PA 15136		PHONE:	(900)			
	POLITY COLINTY POAD & RDIDGE		AK CKEEK CO		ROUTT COUNTY ROAD & BRIDGE		STEAMBOAT SPRINGS CO	SHEET TITLE	
DRO JECT NAME	POLITT CO		OAK CRE	CUSTOMER NAME	ROUTT CO	CTEAND	CAIMID	JOB NUMBER	11600196A
The state of the s	PROPER	85 TO 100 TO 100	RA	D00	2	BICES	B.C. SNOWS . C. B.	A SEX	

o Dia= 3/4"



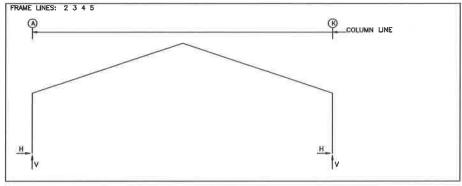
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See Plan DETAIL D

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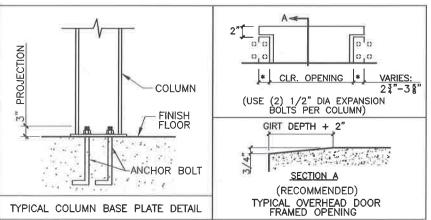
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RIGI	D FR	AME	: AN	ICHOR I	OLTS &	BASE F	PLATES	5.0.5.5
Frm Line	Col	Anc. Qty	_Bolt Dla	Base_ Width	_Plate (i Length	in) Thick	Elev. (in)	RCRBD
2* 2*	A	6	1.000	8.000 8.000	16.00 16.00	0.375 0.375	0.0	
2*	Frame	llnes	:	2 3	•			RECORD SET



END	WAL	L CO	LUMN:	BASIC	COLLIMIN	REACTIO		Wind	Wind	Wind	Win	d	Wind	Wind	Wind
Frm Une 1 1 1 1 1	Col Line A B D F J K	Dead Vert 0.4 0.6 1.6 1.6 0.6	Collat Vert 0.1 0.1 0.3 0.3 0.1	Live Vert 1.2 1.9 4.9 1.9 1.2	Snow Vert 2.7 4.1 10.7 10.7 4.1 2.7		1 0 2 5 5 9	Right1 Vert -0.9 -1.7 -3.0 -4.0 -2.7 -1.0	Left2 Vert -0.8 -3.7 -3.2 -2.1 -2.1 -1.4	Right Vert -0.7 -1.6 -3.3 -4.3 -2.6 -0.9	2 Pre Hot -0 -2 -3 -3 -2	.8 .0 .9	Suct Horz 1.1 2.2 4.3 4.3 2.2 1.1	Long1 Vert -0.9 -1.9 -2.9 -2.9 -1.9 -0.9	Long2 Vert -0.5 -1.1 -1.7 -1.7 -1.1 -0.5
Frm Une 1 1 1 1 1	Col Line A B D F J K	Sela Left Vert 0.1 -0.7 0.6 0.4 -0.3 0.0	Sels Right Vert 0.6 0.1 -0.6 -0.4 0.3 0.0	-MIN Horz 0.0 0.0 0.0 0.0 0.0	_SNOW Vert 4.8 7.4 19.2 19.2 7.4 4.8	E1UNB_ Horz 0.0 0.0 0.0 0.0 0.0 0.0	SL_L- Vert 2,9 3,1 14,8 6,7 -0,4 1,1	- E1UNE Horz 0.0 0.0 0.0 0.0 0.0	3_SL_R- Vert 1.1 -0.4 6.7 14.8 3.1 2.9	-LWIND Horz 0.0 0.0 0.0 0.0 0.0	01_L Vert -0.3 -0.6 0.1 0.0 0.0	-LWII Horz 0.0 0.0 0.0 0.0 0.0	-0.2 0.1 0.2 -0.7		
Frm Line 1 1 1 1	Col Line A B D F J K	-LWINI Horz 0.0 0.0 0.0 0.0 0.0		0.0 0.0 0.0 0.0 0.0	_R ort 0.0 0.2 0.1 0.2 0.7										



rame Ine	Column Line A K	Horiz 1.7 –1.7	Dead Vert 3.1 3.1	Colle Horiz 0.3 -0.3	teral- Vert 0.4 0.4	Horiz 5.7 -5.7	-⊔ve Vert 8.4 8.4	Horlz 12.4 -12.4	Snow Vert 18.4 18.4		_Left1 Vert -7.8 -6.1	-Wind_ Horiz -2.6 5.7	Right1- Vert -6.1 -7.8
Frame Line 5 5	Column Line A K	Wind Horiz -4.8 1.7	_Left2- Vert -5.3 -3.6	-Wind_ Horiz -1.7 4.8	Right2- Vert -3.6 -5.3	Wind Horiz -2.9 3.7	_Long1- Vert -7.6 -6.8	Wind Horlz -1.7 1.7	Long2- Vert -3.5 -3.5	-Seisml Horiz -0.8 -0.8	c_Left Vert -0.3 0.3	Selsmic Horiz 0.8 0.8	_Right Vert 0.3 -0.3
Frame Line 5	Column Line A K	-MIN_S Horlz 22.2 -22.2	NOW Vert 33.1 33.1	LWIND1, Horiz 0.0 0.0	L2E- Vert 0.0 0.0	LWIND1_ Horiz -0.2 -0.1	_R2E- Vert -0.1 -0.8	LWIND2_ Horiz 0.1 0.2	L2E- Vert -0.8 -0.1	LWIND2_ Horiz -0.2 -0.1	R2E- Vert -0.1 -0.8	F1UNB_ Horiz 10.9 -11.0	SL_L- Vert 18.5 11.2
Frame Line 5	Column Line A K	F1UNB_ Horlz 11.0 -10.9	SL_R- Vert 11.2 18.5										
Frame Line 2* 2*	Column Line A K	Horlz 2.9 -2.9	Dead Vert 5.1 5.1	Colle Horiz 0.6 0.6	steral- Vert 0.8 0.8	Horiz 10.5 -10.5	-Live Vert 15.7 15.7	Horiz 23.0 -23.0	Snow Vert 34.3 34.3	-—-Wind Horiz -8.3 2.5	Left1- Vert -10.8 -8.5	-Wind_ Horiz -2.5 8.3	Right1- Vert -8.5 -10.8
Frame Line 2* 2*	Column Line Å K	Wind Horiz -7.1 1.3	_Left2- Vert -6.2 -3.9	-Wind_ Horlz -1.3 7.1	Right2- Vert -3.9 -6.2	Wind Horiz -4.9 4.9	_Long1- Vert -11.1 -11.1	Wind, Horiz -3.2 3.2	Long2- Vert -6.5 -6.5	-Selsmi Horiz -1.6 -1.6	c_Left Vert -0.6 0.6	Seismic Horiz 1.6 1.6	_Right Vert 0.6 -0.6
Frame Line 2* 2*	Column Une A K	-MIN_S Horiz 41.3 -41.3	NOW Vert 61.8 61.8	LWIND1. Horlz 0.1 0.4	L2E- Vert -1.5 -0.3	LWIND1_ Horiz -0.4 -0.1	_R2E- Vert -0.3 -1.5	LWIND2_ Horiz 0.1 0.4	L2E- Vert -1.5 -0.3	LWIND2_ Horiz -0.4 -0.1	R2E- Vert -0.3 -1.5	F2UNB_ Horiz 20.3 -20.4	SL_L- Vert 34.6 20.9
Frame Line 2*	Column Line A K	F2UNB_ Horiz 20.4 -20.3	SL_R- Vert 20.9 34.6										

Frm Une	Col Line	Aric. Qty	_Bolt Dia	Base. Width	_Plate (I Length	n) Thick	Elev. (in)
6	Α	4	0.750	8.000	8.500	0.375	0.0
1	В	4	0.750	8.000	8.500	0.375	0.0
	D	4	0.750	8.000	12.50	0.375	0.0
1	F	4	0.750	8.000	12.50	0.375	0.0
6	J	4	0.750	8.000	12.50	0.375	0.0
1	K	4	0.750	8.000	8.500	0.375	0.0

II,	₩all	_	- Col			ons (k - Seis		Panel (lb	_Shea 7ft)	r
Loc	L	lne	Col Line	Horz	Vert	Horz	Vert	Wind	Seis	Note
L_EN	N N	1 K 5	A,B 3,4	2.2 6.2	3.4 4.6	1.9 6.4	3.0 4.8			(h)
B_S	W	Ă	4,3	6.2	4.6	6.4	4.8			(11)

GENERAL NOTES

- ALL LOADING CONDITIONS ARE EXAMINED. THE MAXIMUM AND MINIMUM HORIZONTAL (H) AND VERTICAL (V)
 REACTIONS AND THE CORRESPONDING VERTICAL (V) OR HORIZONTAL (H) REACTIONS ARE REPORTED.
- REACTIONS ARE PROVIDED BY LOAD CASE IN ORDER TO AID THE FOUNDATION ENGINEER IN DETERMINING
 THE APPROPRIATE LOAD FACTORS AND COMBINATION TO BE USED WITH EITHER WORKING STRESS OR
 ULTIMATE STRENGTH DESIGN METHODS. WIND LOAD CASES ARE GIVEN FOR EACH PRIMARY WIND DIRECTION.
- 3. FOR ASCE7-10 BASED BULDING CODES THE UNFACTORED LOAD CASE REACTIONS DUE TO WIND ARE GENERATED USING ULTIMATE DESIGN WIND SPEEDS (Vuit).
- 4. POSITIVE (+) REACTIONS ARE AS SHOWN ABOVE. FOUNDATION LOADS ARE IN OPPOSITE DIRECTIONS.
- BRACING REACTIONS ARE IN THE PLANE OF THE BRACE WITH THE HORIZONTAL REACTION (H) ACTING AWAY FROM THE BRACED BAY AND THE VERTICAL REACTION (V) ACTING DOWNWARD.

******* RIGID FRAME LOAD CASE ABBREVIATIONS: ******

Wind L1/Wind_R1: LATERAL WIND FROM THE LEFT/RIGHT, CASE 1

Wind_LS/Wind_R2: LATERAL WIND FROM THE LEFT/RIGHT, CASE 2

Wind_Ln1/Wind_Ln2: LONGITUDINAL WIND, CASE 1/2

Seismic_L7/Seismic_R1_LATERAL SEISMIC_LOAD FROM LEFT/RIGHT

LWIND_L#E/LWIND#_R#E: LONGITUDINAL WIND EDGE ZONES

CONTINUOR R#E: LONGITUDINAL WIND EDGE ZONES

CONTINUOR R## CONTINUOR R## CONTINUOR BEAM SYSTEMS

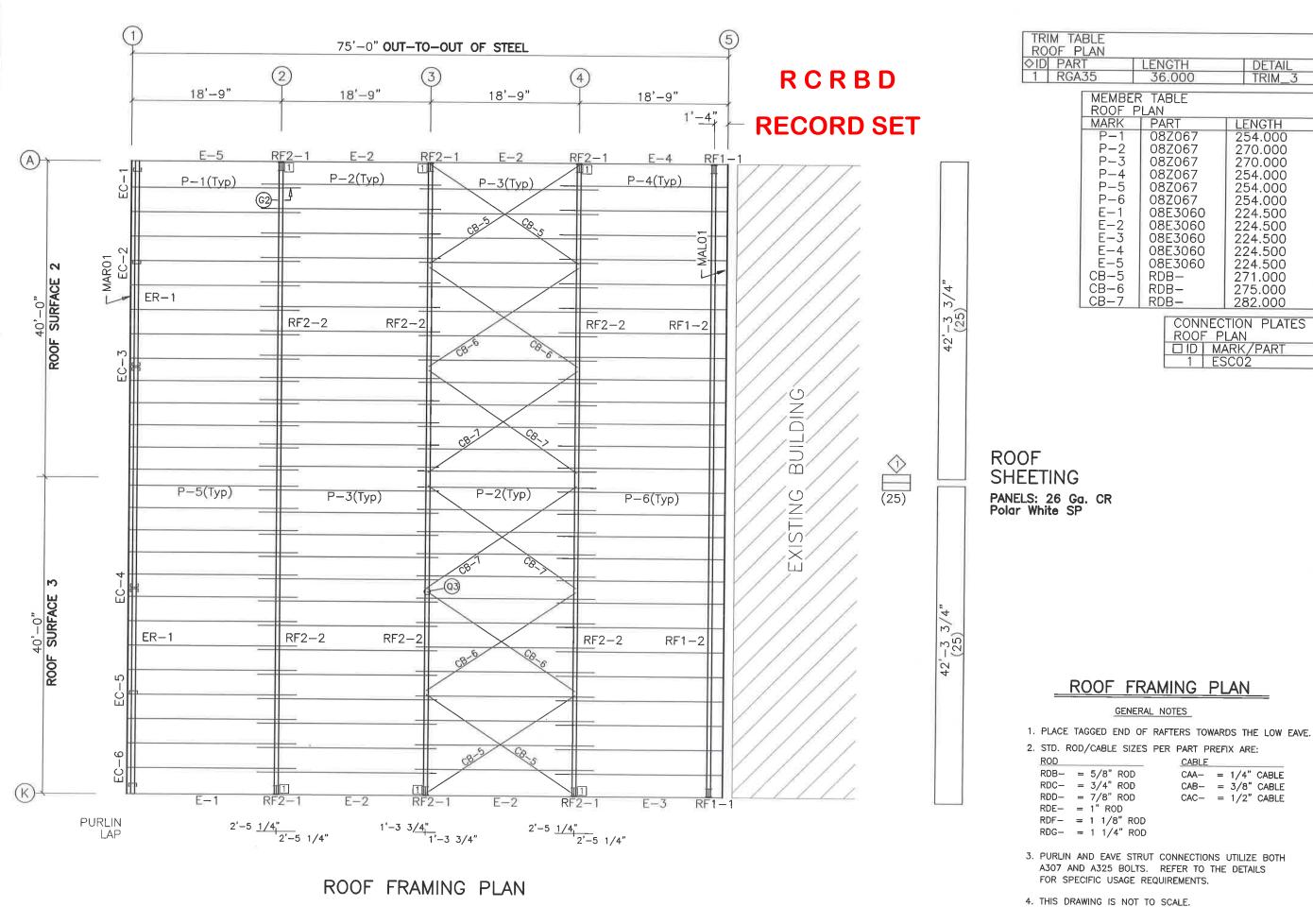
FOUNDATION DESIGN NOTES:

- 1. THE ORIENTATION OF THE ANCHOR BOLT DETAILS SHOWN ON THIS PAGE MAY NOT COINCIDE WITH THE ACTUAL COLUMN ORIENTATION SHOWN ON PAGE F1. PLEASE REFERENCE THE SIDEWALL (SW) AND ENDWALL (EW) STEEL LINES SHOWN ON THE ANCHOR BOLT DETAILS WITH THE ANCHOR BOLT PLAN ON PAGE F1 DURING LAYOUT OF COLUMN AND ANCHOR BOLT LOCATIONS.
- 2. COLUMN BASE PLATES MAY HAVE MORE HOLES THAN ARE REQUIRED DUE TO PRODUCTION LIMITATIONS. PLEASE FOLLOW ANCHOR BOLT DETAILS FOR QUANTITY OF ANCHOR BOLTS REQUIRED. EXTRA BASE PLATE HOLES DO NOT NEED INFILLED PER THE MBS DESIGN SPECIFICATIONS.

SYSTEMS BUILDING STEEL 400 ISLAND AVENUE McKEES ROCKS, PA OLYMPIA , BRIDGE CO BRIDGE

PROJECT NAME
ROUTT COUNTY ROAD & B
OAK CREEK CO
CUSTOMER NAME
ROUTT COUNTY ROAD & B
STEAMBOAT SPRINGS CC





DETAIL TRIM_

	MEMBER	RTABLE	
	ROOF P	LAN	
	MARK	PART	LENGTH
	P-1	08Z067	254.000
	P-2	08Z067	270.000
	P-3	08Z067	270.000
	P-4	08Z067	254.000
	P-5	08Z067	254.000
	P-6	08Z067	254.000
	E-1	08F3060	224.500
	E-2	08F3060	224.500
	E-3	08E3060	224.500
	Ē-4	08F3060	224.500
- 11	Ē-5	08E3060	224.500
	CB-5	RDB-	271.000
	CB-6	RDB-	275.000
	CB-7	RDB-	282.000
13	00 /	NUU -	202,000

CONNECTION PLATES ROOF PLAN

DID MARK/PART

1 ESCO2

04/15/16

RHW CDS

88

SYSTEMS

BUILDING

15136

400 ISLAND AVENUE MCKEES ROCKS, PA 1 OLYMPIA STEEL

ROUTT COUNTY ROAD & BRIDGE OAK CREEK CO
CUSTOMAEN NAME
ROUTT COUNTY ROAD & BRIDGE STEAMBOAT SPRINGS CO

of 8

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CAA- = 1/4" CABLE CAB- = 3/8" CABLE CAC- = 1/2" CABLE

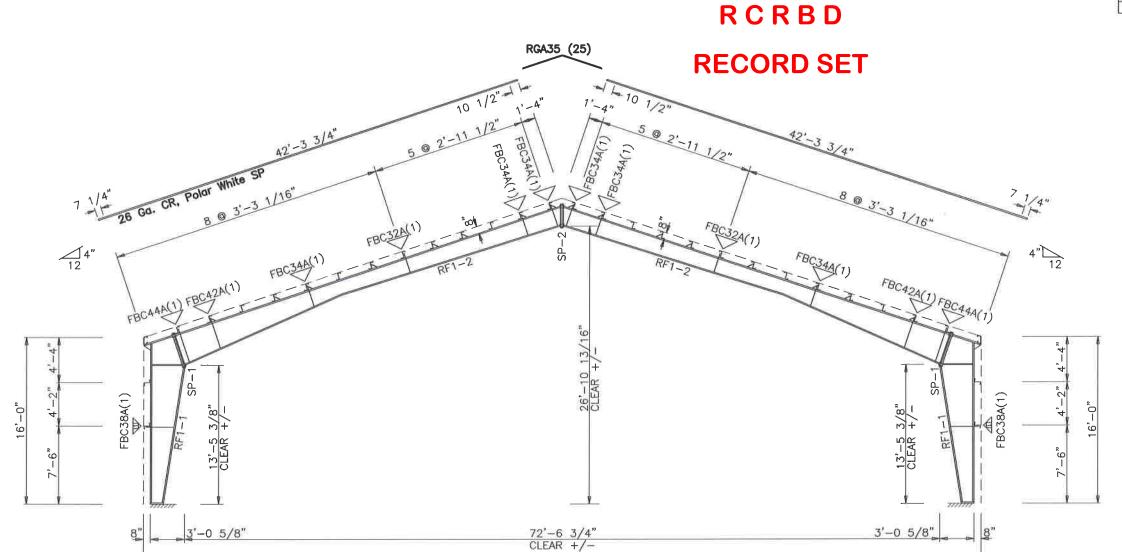
A307 AND A325 BOLTS. REFER TO THE DETAILS

SPLICE P	LATE	& B	OLT	TABLE					
Mark	Qty Top	Bot	Int	Туре	Dia	Length	Width	Thick	Length
SP-1 SP-2	4 4	4 4	0	A325 A325	0.750 0.625		6" 6"	3/4" 3/8"	3'-5 1/2" 2'-2 5/8"

MEMBER	TABLE			
A 4	Web Depth	Web Plate	Outside Flange	Inside Flange
Mark	Start/End	Thick Length	W x Thk x Length	W x Thk x Length
RF1-1	11.5/36.0	0.220 157.5	6 x 1/4" x 185.5	6 x 3/8" x 159.4
	36.0/24.0	0.250 36.1	6 x 5/16" x 33.6 6 x 1/4" x 470.1	
RF1-2	34.5/15.0	0.220 198.3	6 × 1/4" × 470.1	6 x 3/8" x 199.2
	15.0/19.0	0.125 271.8		6 x 1/4" x 265.4

CONNECTION PLATES

□ ID | Mark/Part 1 | FBT01



RIGID FRAME ELEVATION: FRAME LINE 5

GENERAL NOTES

- 1. \bigvee INDICATES FLANGE BRACING LOCATIONS. (1) = ONE SIDE; (2) = TWO SIDES.
- IF FLANGE BRACING IS REQUIRED ON BOTH SIDES OF AN EXPANDABLE RIGID FRAME, THE OPPOSITE SIDE FLANGE BRACES WILL HAVE TO BE INSTALLED AT THE TIME OF FUTURE EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.
- RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACH FLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.



400 ISLAND AVENUE McKEES ROCKS, PA 1 PHONE: (888) 449-7756

> BRIDGE CO

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COUNTY ROAD 8

COUNTY ROAD & BRIDGE REEK CO

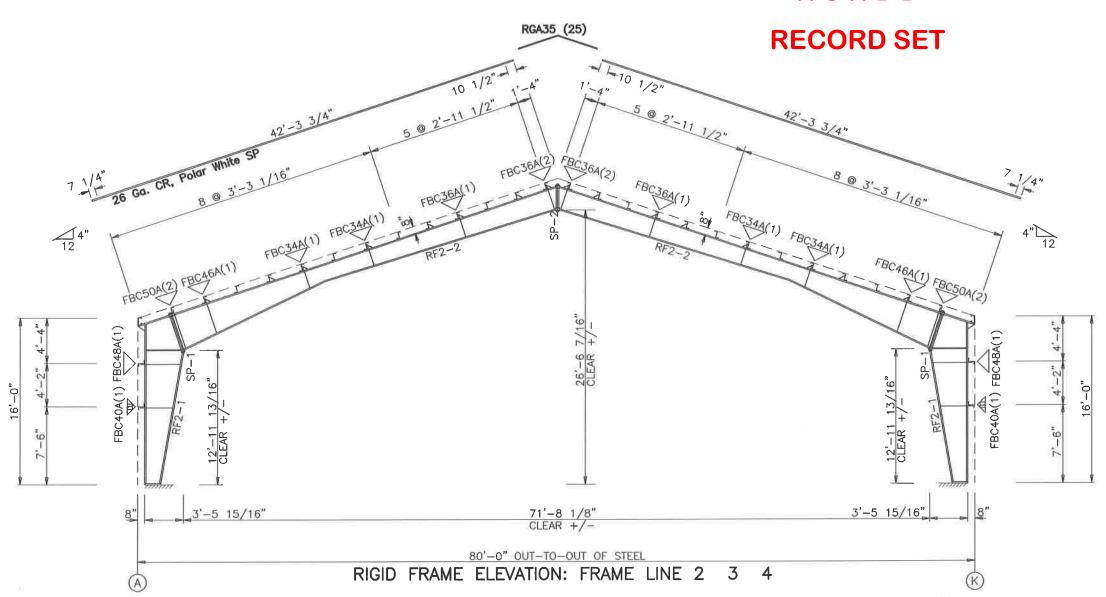
nt be project engineer of record and the construed as such.
SHEE

SPLICE P	LATE	& B	OLT	TABLE					
Mark	Qty Top	Bot	Int	Туре	Dia	Length	Width	Thick	Length
SP-1 SP-2	4 4	4 4	0	A325 A325	1.000 0.625		6" 6"	3/4" 3/8"	4'-1 3/4" 2'-6 7/8"

MEMBER	TABLE				
	Web Depth	Web	Plate	Outside Flange	Inside Flange
Mark	Start/End		Length	W x Thk x Length	W x Thk x Length
RF2-1	15.0/41.0	0.275	151.3	6 x 5/16" x 185.5	
	41.0/26.6	0.313	43.1	6 x 3/8" x 36.4	
RF2-2	41.0/17.0	0.275	180.5	6 x 3/8" x 36.4 6 x 5/16" x 467.2	6 × 5/8" × 182.0 6 × 3/8" × 279.0
	17.0/23.0	0.164	286.8		6 x 3/8" x 279.0

CONNECTION PLATES □ ID | Mark/Part 1 | FBT01

RCRBD

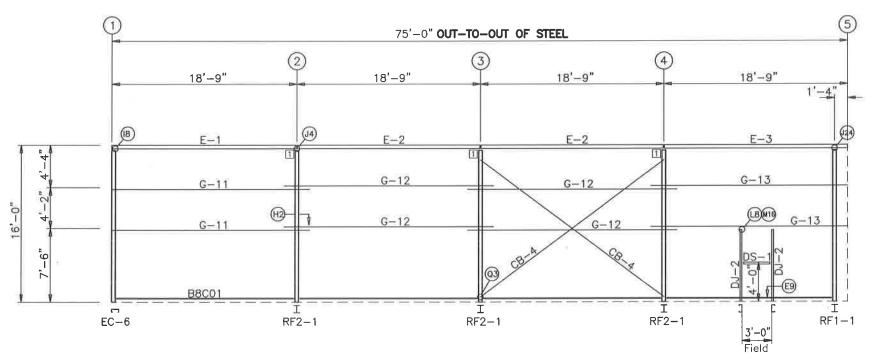


GENERAL NOTES

- 1. INDICATES FLANGE BRACING LOCATIONS. (1) = ONE SIDE; (2) = TWO SIDES.
- 2. IF FLANGE BRACING IS REQUIRED ON BOTH SIDES OF AN EXPANDABLE RIGID FRAME, THE OPPOSITE SIDE FLANGE BRACES WILL HAVE TO BE INSTALLED AT THE TIME OF FUTURE EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.
- 3. RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACH FLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.

]				_
A	PROJECT NAME DOLITY OF INITY BOAR 9 BDDV	о с «	OLYMPIA STEEL BUILDING SYSTEMS	Anchor Bolt Plans for Const.	PIMG (GRJ R	PMG GRJ RHW CDS	04/15/16	
SIL		שטואם א טא		Permit Drawings	PMG (GRJ RE	PMG GRU RHW CDS	04/15/16	
JRA.	OAK CREEK CO		AUU ISLAND AVENUE MCKEES ROCKS, PA 15136						_
DO 1959	CUSTOWER NAME		- LINOTIG						
S	ROOT LOOUNT ROAD & BRID	AD & BRIDGE	(888) 449—7756						_
ICE .	STEAMBOAT SPRINGS CO	IGS CO							
B SW	JOB NUMBER SHEET TITL	ITE:				2/0			_





1'-3 3/4"
1'-3 3/4"

GIRT LAPS

6"

Panel Start/Finish

TRIM TABLE FRAME LINE K ◇ID PART DETAIL
TRIM_303
TRIM_8
TRIM_8
TRIM_708
TRIM_708
TRIM_850 BSB01 OCA01 242.000 MFA01 OCC01 JTA121 SET01 CTA02 CTA03 121.000 121.000 121.000 121.000 121.000 121.000 121.000 5.000 8.060 9.250 9.250 H4000 9 H4000 10 ERA01 11 RCA01 12 RCA02 13 CCA121 14 JTA087 15 CCA121 18 CCE044 17 STA040 TRIM_19 TRIM_99 TRIM_19 TRIM_19 TRIM_99 121.000 Use Drop 44.000 40.000

MEMBER TABLE FRAME LINE K MARK | PART LENGTH 90.000 36.000 PART J08C060 J08C060 08E3060 08E3060 08E3050 08Z054 08Z054 08Z054 RDB-DS-1E-1 E-2 E-3 G-11 G-12 G-13 CB-4 224.500 224.500 224.500 240.500 256.500 240.500 289.000

CONNECTION PLATES
FRAME LINE K

DID MARK/PART

₹ ₹

PING

BUILDING

OLYMPIA STEEL 400 ISLAND AVENUE McKEES ROCKS, PA

COUNTY ROAD & BRIDGE CREEK CO

15136

RCRBD

RECORD SET

(1) (9)\(1)\(1)\(1)	2	(3) (6) (7) (8)	4	(5) (3) (1) (1) (1) (1)
15'-11" 15'-11"	15'-11" 15'-11" 15'-11"	15'-11" 15'-11" 15'-11" 15'-11"	5 6 7 1 <th>15'-11"</th>	15'-11"

1'-3 3/4"
1'-3 3/4"

SIDEWALL FRAMING: FRAME LINE K

1'-3 3/4"
1'-3 3/4"

2'-6"

Panel Start/Finish

SIDEWALL SHEETING & TRIM: FRAME LINE K PANELS: 26 Ga. AW - Fox Gray SP

0

SIDEWALL FRAMING PLAN

GENERAL NOTES

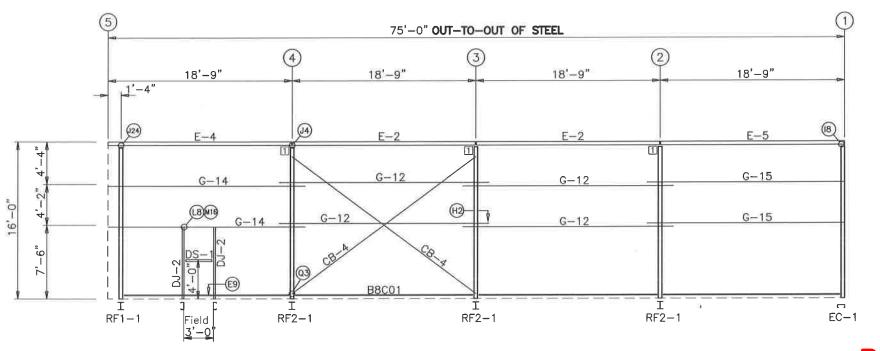
1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

CABLE CAA- = 1/4 CABLE CAB- = 3/8 CABLE RDC- = 3/4" RODRDD- = 7/8" RODCAC- = 1/2" CABLE

RDF- = 1 1/8" ROD $RDG- = 1 \frac{1}{4}$ " ROD

- 2. ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
- 3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
- 4. THIS DRAWING IS NOT TO SCALE.





1'-3 3/4" 1'-3 3/4" 1'-3 3/4"

1'-3 3<u>/4"</u>
1'-3 3<u>/4"</u>
1'-3 3/4"

SIDFWALL FRAMING: FRAME LINE A

GIRT LAPS

RECORD SET

① ② > ()>(1)>
2'-6"
2

SIDEWALL SHEETING & TRIM: FRAME LINE A
PANELS: 26 Ga. AW - Fox Gray SP

	M TABLE		
FR	AME LINE A		
♦ID	PART	LENGTH	DETAIL
1	BSB01	122.000	TRIM_303
2	MFA01	121.000	TRIM_8
3	OCC01	121.000	TRIM_708
4	JTA121	121.000	TRIM_708
5	OCA01	242.000	TRIM_8
2 3 4 5 6	SET01	121.000	TRIM_850
7	CTA02	121.000	_
l 8 l	CTA03	121.000	
9	H4000	5.000	
10	ERA01	8.060	
111		9.250	
12	RCA02	9.250	
13	CCA121	121.000	TRIM_19
14		87.000	TRIM_99
15		Use Drop	TRIM_19
16		44.000	TRIM_19
17	STA040	40.000	TRIM_99

MEMBER FRAME		
MARK	PART	LENGTH
DJ-2	J08C060	90.000
DS-1	J08C060	36.000
E-2	08E3060	224.500
E-4	08E3060	224.500
E-5	08E3060	224.500
G-12	08Z054	256.500
G-14	08Z054	240.500
G-15	08Z054	240.500
CB-4	RDB-	289.000

CON	VECTION PLATES
	IE LINE A
	MARK/PART
1	ESC02

OLYMPIA STEEL BUILDING

400 ISLAND AVENUE MCKEES ROCKS, PA 1

SIDEWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

 ROD
 CABLE

 RDB = 5/8" ROD
 CAA = 1/4" CABLE

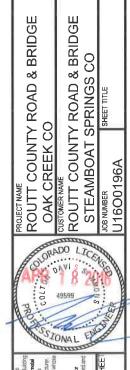
 RDC = 3/4" ROD
 CAB = 3/8" CABLE

 RDD = 7/8" ROD
 CAC = 1/2" CABLE

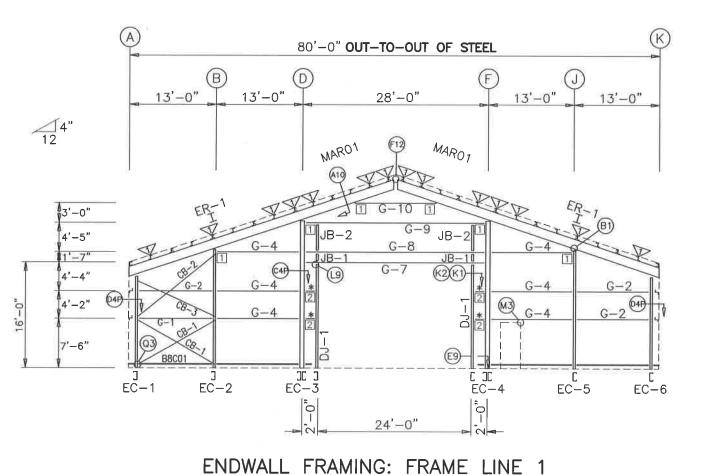
 RDF = 1" ROD
 CAC = 1/2" CABLE

RDD- = 7/8" ROD RDE- = 1" ROD RDF- = 1 1/8" ROD RDG- = 1 1/4" ROD

- ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
- 3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
- 4. THIS DRAWING IS NOT TO SCALE.



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RCRBD **RECORD SET**

BOLT TABLE FRAME LINE 1			
LOCATION	QUAN TYPE	DIA	LENGTH
ER-1/ER-1	8 A325	5/8"	2 1/4
Columns/Raf	6 A325	1/2"	2"

TOUL TABLE		
TRIM TABLE		
FRAME LINE 1		
	LIENOTU	DETAIL
♦ID PART	LENGTH	DETAIL
1 BSB01	122.000	TRIM_303
2 OCA01 3 MFA01	242.000	TRIM8
3 MFA01	121.000	TRIM_8
4 RTA01	121.000	TRIM_2
5 RTA02	242.000	TRIM_2
6 M1704	26.440	_
7 CCA193	193.000	TRIM_19
8 JTA193	193.000	TRIM_98
9 CCA145	145.000	TRIM_19
10 HTA148	148.000	TRIM_98

	NGE BI	RACE TABLE IE 1	
VID	QUAN	MARK	LENGTH
1	14	FBC30	30.000

	MEMBER	TABLE	
	FRAME	LINE 1	
	MARK	PART	LENGTH
	EC-1	W08S075	176.250
	EC-2	W08S105	222.938
	EC-3	W12SD089	274.938
	EC-4	W12SD089	274.938
	EC-5	W12S075	222.938
	EC-6	W08S075	176.250
	ER-1	W1212525	505.688
	DJ-1	J08C089	192.000
	G-1	08Z075	131.500
	G-2	08Z054	131.500
	*	S8Z84	FIELD CUT
	G-4	08Z054	147.500
	G-7	08C089	327.500
	G-8	08Z089	327.500
	G-9	08Z099	327.500
ď	G-10	08Z067	174.500
Ï	CB-1	RDB-	166.000
	CB-2	RDB-	188.000
	CB-3	RDB-	163.000
	JB-1	J08C060	10.625
Ц	JB-2	J08C060	44.625

	NECTION PLATES
FRAM	IE LINE 1
	MARK/PART
1	GCR34qcb
2	JCA&PŎ2

ENDWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD CABLE RDB- = 5/8" RODCAA- = 1/4" CABLE RDC- = 3/4" ROD RDD- = 7/8" ROD RDE- = 1" ROD CAB- = 3/8" CABLE CAC- = 1/2" CABLE RDF- = 1 1/8" ROD

- 2. ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
- 3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
- 4. THIS DRAWING IS NOT TO SCALE.

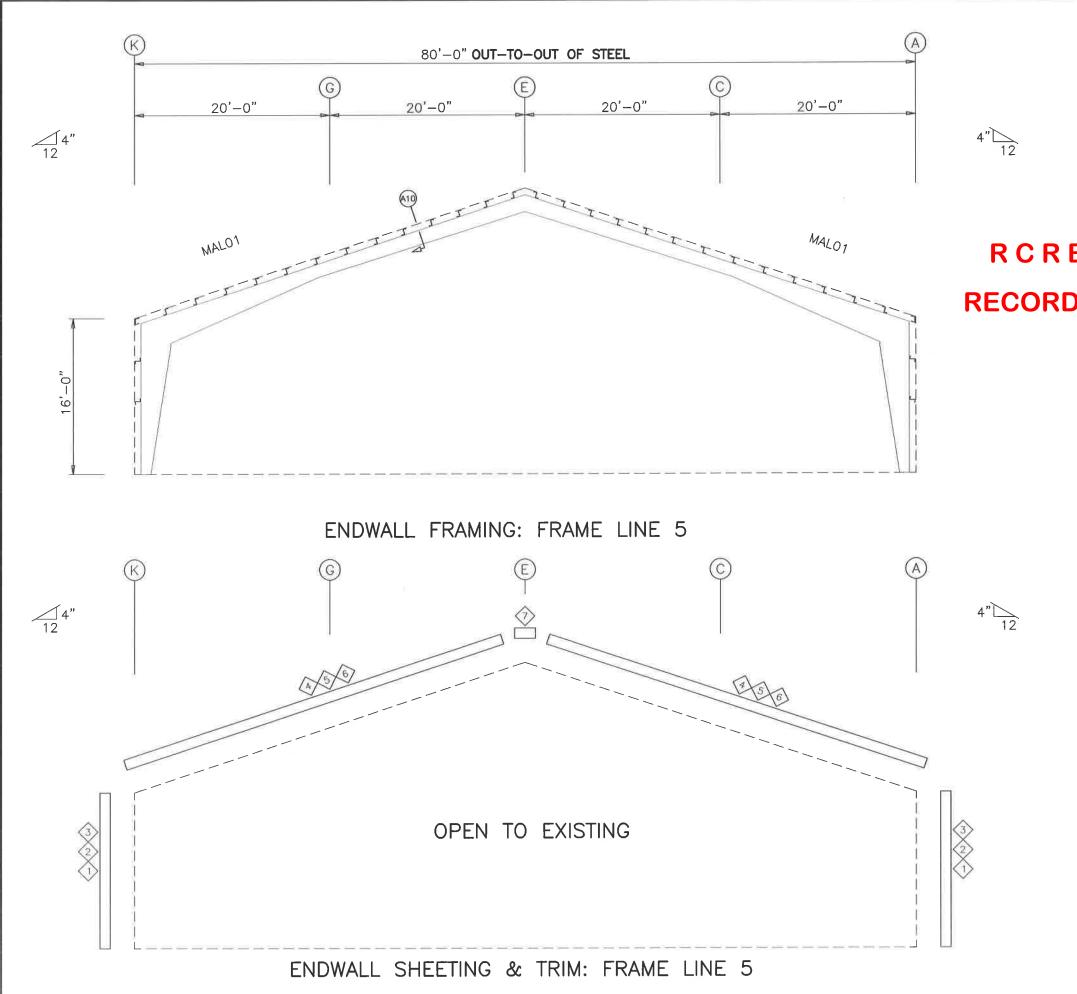
124"	(A)	B	0	(F)	<u> </u>	(K)	4"\12
3 2 2	16'-11 1/2"	-11 1/ -11 1/ 1'-11 1/ 2'-11	8 - 1 - 1 - 1 - 1 - 1 - 1	25'-3 1/2" 24'-3 1/2" 23'-3 1/2" 23'-3 1/2"	3 1/2	17'-3 1/2"	\$\frac{3}{2}\$
	Panel Start	(i) /Finish			1'- Panel Start	6″/Finish	

ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. AW - Fox Gray SP

RDG- = 1 1/4" ROD

SYSTEMS BUILDING 15136 400 ISLAND AVENUE McKEES ROCKS, PA 1 PHONE: (888) 449-7756 OLYMPIA STEEL BRIDGE COUNTY ROAD & BRIDGE REEK CO ROAD & F



		M TABLE AME LINE 5		
\Diamond	>ID	PART	LENGTH	DETAIL
	1	MFA01	121.000	TRIM_708
;	2	OCC01	121.000	TRIM_708
	3	JTA121	121.000	TRIM_708
	4	RTA01	121.000	TRIM_701
	5	RTA02	242.000	TRIM_701
	6	LEE10	121.000	
	7	M1704	26.440	

RCRBD **RECORD SET**

ENDWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

CABLE CAB- = 1/4 CABLE CAB- = 3/8 CABLE CAC- = 1/2 CABLE RDB- = 5/8" ROD RDC- = 3/4" RODRDD- = 7/8" ROD RDE- = 1" RODRDF- = 1 1/8" ROD

- 2. ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
- 3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
- 4. THIS DRAWING IS NOT TO SCALE.

RDG- = 1 1/4" ROD

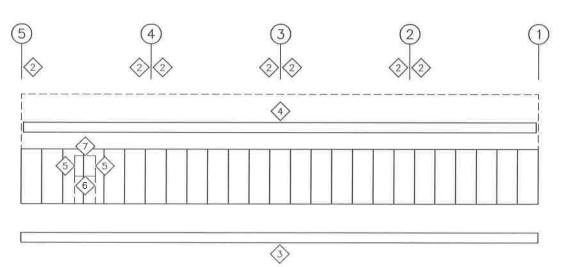


12 4"

ENDWALL LINER SHEETING & TRIM: FRAME LINE 1

PANELS: 8'-0", 26 Ga. CL - Galvalume

(As Viewed From Inside Of Building)

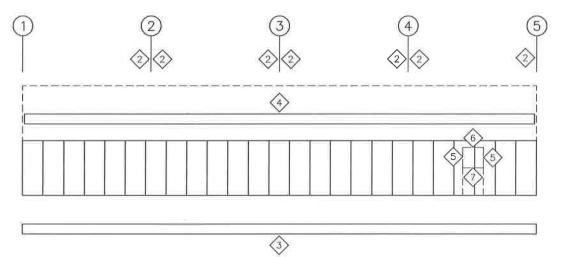


SIDEWALL LINER SHEETING & TRIM: FRAME LINE K
PANELS: 8'-0", 26 Ga. CL - Galvalume
(As Viewed From Inside Of Building)

R C R B D RECORD SET

4" 12

- 1	HRI	M LABLE		
	FR	AME LINE 1	K A	
į	♦ID	PART	LENGTH	DETAIL
	1	HTD194	194.000	TRIM_23
	2 3	HTD096	96.000	TRIM_32
	3	MAR02	242.000	TRIM_38
	4	HTD121	121.000	TRIM_39
	5	HTD096	96.000	TRIM_23
	6	HTD096	96.000	TRIM_27
	7	HTD096	96.000	TRIM 28



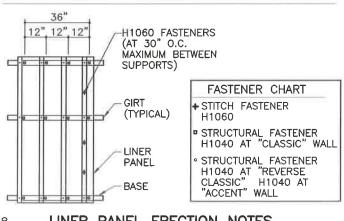
SIDEWALL LINER SHEETING & TRIM: FRAME LINE A
PANELS: 8'-0", 26 Ga. CL - Galvalume
(As Viewed From Inside Of Building)

GENERAL NOTES:

1. FIELD WORK OF THE LINER PANELS AT THE FLANGE BRACE LOCATIONS MAY BE REQUIRED.

ERECTOR NOTE:

THE ERECTION OF THE LINER PANEL MUST BE COORDINATED PROPERLY WITH THE BRACING AND BRACE STRUTS TO ENSURE PROPER FIT—UP. IT IS THE ERECTOR'S RESPONSIBILITY TO ENSURE THAT THE STRUCTURE IS ADEQUATELY BRACED DURING THE ERECTION PROCESS. TEMPORARY REMOVAL OF BRACING AND BRACE STRUTS IS ACCEPTABLE FOR LINER PANEL ERECTION, PROVIDED ADEQUATE TEMPORARY BRACING IS USED.



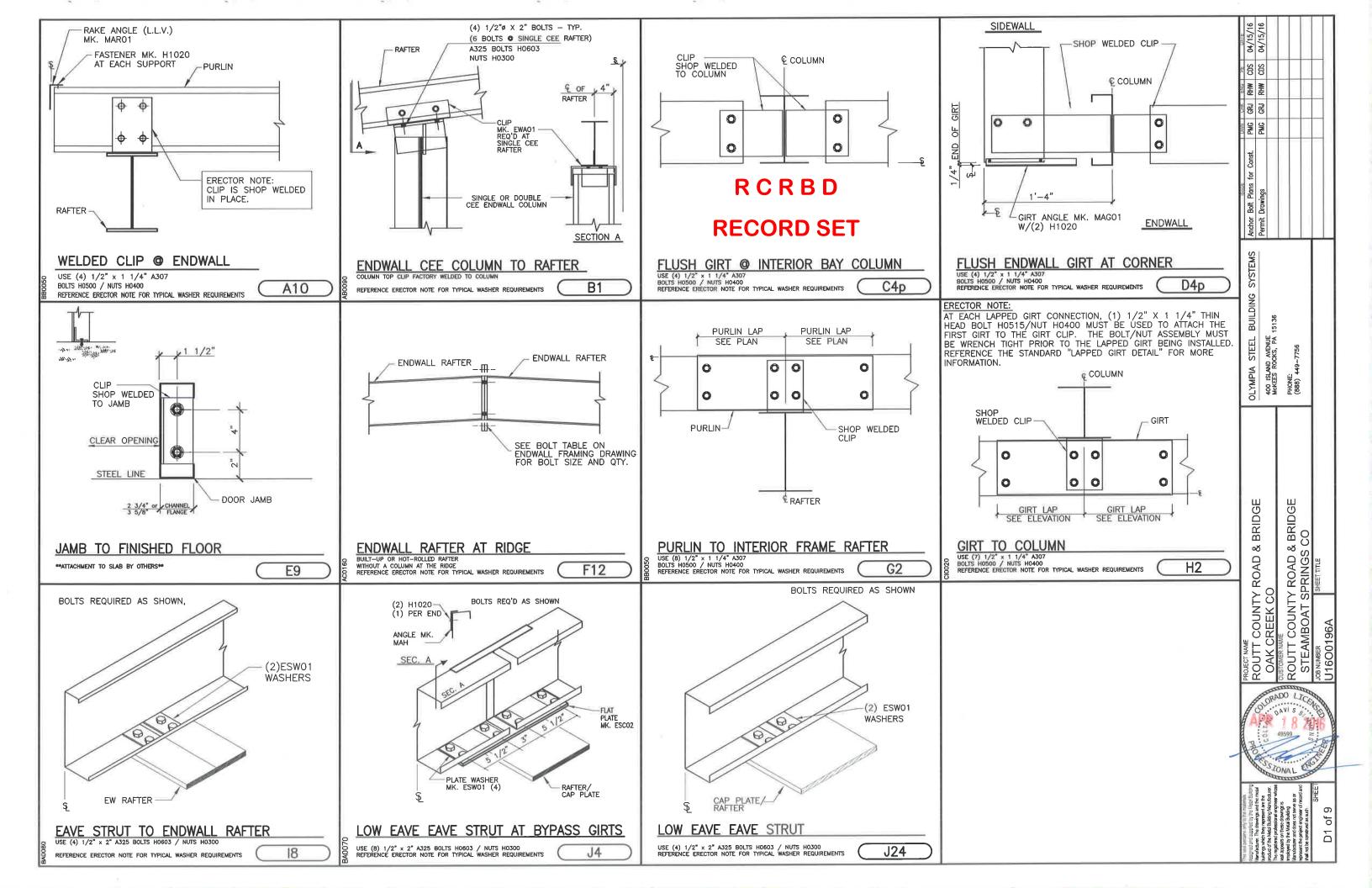
LINER PANEL ERECTION NOTES
(PANELS 36" NET LAY)

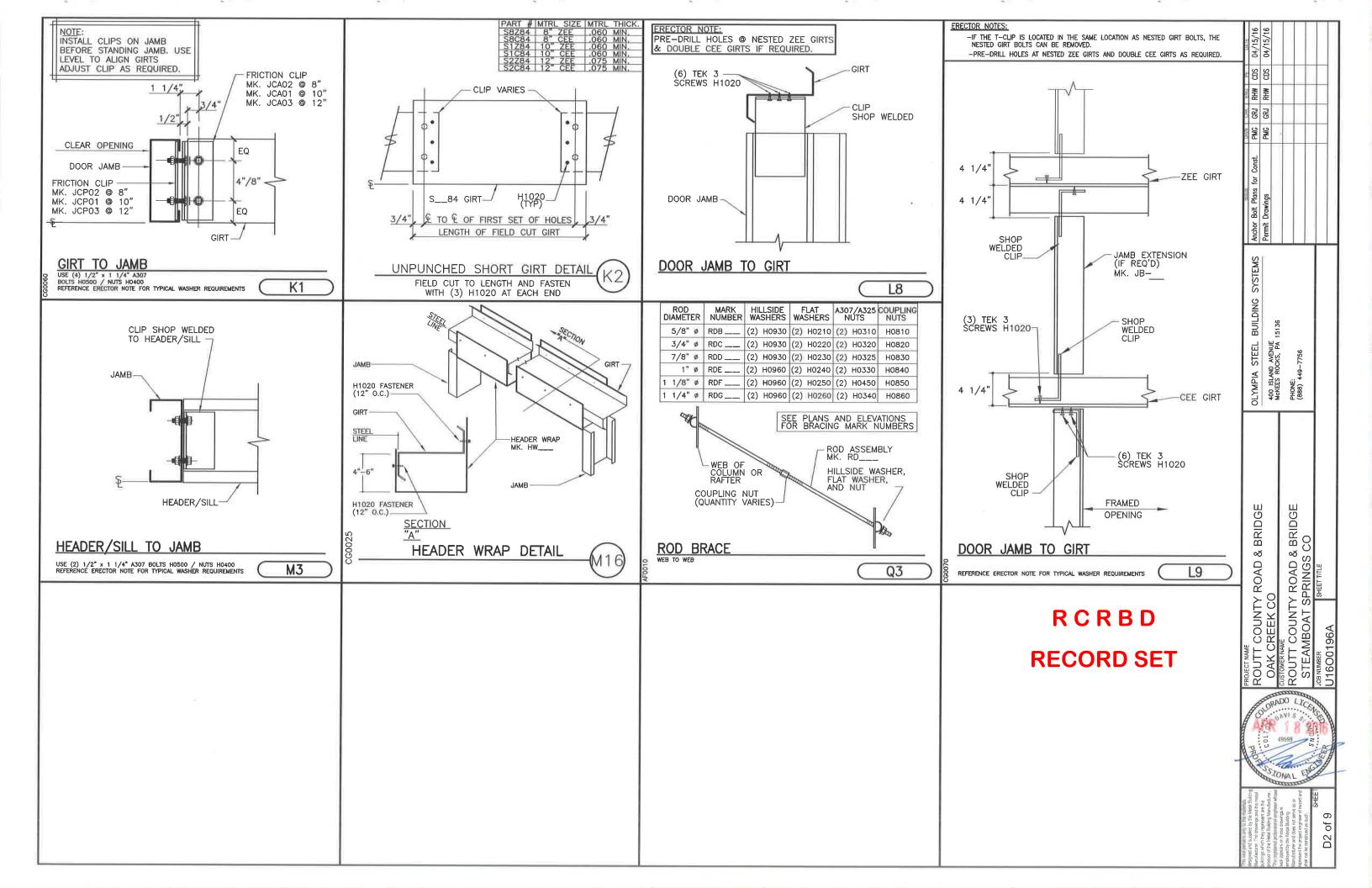
	555	NAME I	X.	FIRE	4	DARE
OLYMPIA STEEL BUILDING SYSTEMS	Anchor Bolt Plans for Const.	PMG	GR	PMG GRJ RHW CDS	SBS	04/15/16
THE WAY CLASS CO.	Permit Drawings	PMG	GRU	PMG GRJ RHW CDS	CDS	04/15/16
MCKEES ROCKS, PA 15136						
- LINCHO						
(888) 449–7756						

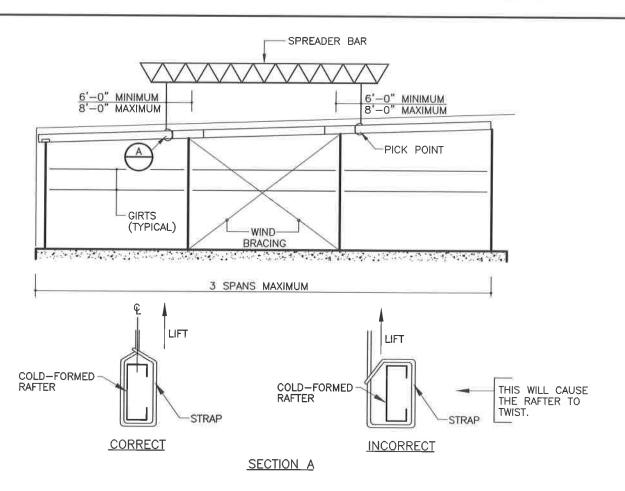
ROUTT COUNTY ROAD & BRIDGE OAK CREEK CO CUSTOWERNAME
ROUTT COUNTY ROAD & BRIDGE STEAMBOAT SPRINGS CO



or as seeing assessment of the seeing assessment of the seed of th







COLD FORMED ENDWALL ERECTOR DETAIL

- 1) GIRTS, CLIPS, RAFTERS AND COLUMNS MUST BE SECURELY AND TIGHTLY BOLTED TOGETHER PRIOR TO STANDING UP THE ENDWALL SECTION. (NOTE: THE GIRTS PROVIDE STABILITY TO THE ENDWALL SYSTEM DURING THE ERECTION PROCESS)
- 2) BUILT-UP COLUMNS/RAFTERS MUST BE ERECTED INDIVIDUALLY WHEN USED WITH COLD FORMED ENDWALL PARTS
- 3) THIS DETAIL IS SUGGESTED IN ORDER TO MAINTAIN STRUCTURAL INTEGRITY OF ENDWALL PARTS AFTER ERECTION. SOUND JUDGEMENT BASED ON ERECTION KNOWLEDGE AND EXPERIENCE SHOULD BE APPLIED REGARDING SAFETY AND PRACTICALITY OF INDIVIDUAL SITUATIONS.
- 4) REGULATIONS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ACT, LOCAL, STATE, AND/OR FEDERAL AGENCIES SHOULD BE ADHERED TO AT ALL TIMES. THE METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR INJURY, DAMAGE, OR FAILURE WHICH MAY RESULT FROM FAILING TO MEET ANY OF THESE REGULATIONS.

TYPICAL WASHER REQUIREMENTS ERECTOR NOTE BOLT/NUT ASSEMBLY REQUIRED AT LAPPED (UNLESS NOTED OTHERWISE ON DRAWINGS) ZEE MEMBERS. (NO BOLT HEAD-WASHERS REQUIRED SLOT TO SLOT CONNECTIONS WASHER-WASHERS ARE REQUIRED ON BOTH SIDES OF MATERIAL IF WASHER SLOTS ARE USED ON BOTH SIDES (NOTE LAPPED ZEE SECTION "A" MEMBER EXCEPTION) BOLT HEAD-SLOT TO HOLE CONNECTIONS -SLOT WASHER ONE WASHER REQUIRED ON APPED ZEE SLOTTED SIDE ONLY. PURLINS OR LAPPED/NESTED REGION BOLT HEAD-HOLE HOLE TO HOLE CONNECTIONS NO WASHERS ARE REQUIRED WHEN SLOTS ARE NOT USED. NUT-HOLE WASHER PART NUMBERS H0240 NO WASHERS REQUIRED AT BOLTS USED IN WASHER WASHER THE LAPPED REGIONS OF ZEE MEMBERS. 3/4" FLAT WASHER 7/8" FLAT WASHER SECTION "B"

TYPICAL FIELD WELD REQUIREMENTS ERECTOR NOTE: (UNLESS NOTED OTHERWISE ON DRAWINGS)

ALL FIELD WELDING MUST BE PERFORMED BY AWS/CWB CERTIFIED WELDERS WHO ARE QUALIFIED FOR THE WELDING PROCESSES AND POSITIONS INDICATED.

ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS/CWB SPECIFICATIONS.

WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI/483 MPd MATERIAL AND LOW HYDROGEN CONTENT.

GALVANIZED STEEL FIELD WELDING RECOMMENDATIONS

PREPARATION OF WELD AREA

AWS D-19.0, WELDING ZINC COATED STEEL, CALLS FOR WELDS TO BE MADE ON STEEL THAT IS FREE OF ZINC IN THE AREA TO BE WELDED. FOR GALVANIZED STRUCTURAL COMPONENTS, THE ZINC COATING SHOULD BE REMOVED AT LEAST ONE TO FOUR INCHES (2.5-10 cm) FROM EITHER SIDE OF THE INTENDED WELD ZONE AND ON BOTH SIDES OF THE WORKPIECE. GRINDING BACK THE ZINC COATING IS THE PREFERRED AND MOST COMMON METHOD; BURNING THE ZINC AWAY OR PUSHING BACK THE MOLTEN ZINC FROM THE WELD AREA ARE ALSO EFFECTIVE.

TOUCH-UP OF WELD AREA

WELDING ON GALVANIZED SURFACES DESTROYS THE ZINC COATING ON AND AROUND THE WELD AREA. RESTORATION OF THE AREA WILL BE PERFORMED IN ACCORDANCE WITH ASTM A 780, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT—DIP GALVANIZED COATINGS, WHICH SPECIFIES THE USE OF PAINTS CONTAINING ZINC DUST, ZINC—BASED SOLDERS OR SPRAYED ZINC. ALL TOUCHUP AND REPAIR METHODS ARE CAPABLE OF BUILDING A PROTECTIVE LAYER TO THE THICKNESS REQUIRED BY ASTM A 780.

SAFETY & HEALTH

WHEN WELDING DIRECTLY ON GALVANIZED STEEL IS UNAVOIDABLE, OSHA PERMISSIBLE EXPOSURE LIMITS (PELS) MAY BE EXCEEDED AND EVERY PRECAUTION, INCLUDING HIGH-VELOCITY CIRCULATING FANS WITH FILTERS, AIR RESPIRATORS AND FUNE-EXTRACTION SYSTEMS SUGGESTED BY AWS, SHOULD BE EMPLOYED. FUMES FROM WELDING GALVANIZED STEEL CAN CONTAIN ZINC, IRON, AND LEAD. FUME COMPOSITION TYPICALLY DEPENDS ON THE COMPOSITION OF THE MATERIALS USED, AS WELL AS THE HEAT APPLIED BY THE PARTICULAR WELDING PROCESS. IN ANY EVENT, GOOD VENTILATION MINIMIZES THE AMOUNT OF EXPOSURE TO FUMES.

PRIOR TO WELDING ON ANY METAL, CONSULT ANSI/ASC Z-49.1, SAFETY IN WELDING, CUTTING AND ALLIED PROCESSES, WHICH CONTAINS INFORMATION ON THE PROTECTION OF PERSONNEL AND THE GENERAL AREA, VENTILATION AND FIRE PREVENTION.

INFORMATION COURTESY OF AMERICAN GALVANIZERS ASSOCIATION

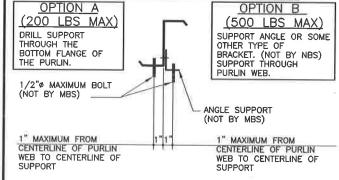
COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC. ARE SUSPENDED FROM ROOF MEMBERS, CONSULT ENGINEER OF RECORD IF THESE CONCENTRATED LOADS EXCEED 500 POUNDS (USING THE WEB MOUNT DETAIL) OR 200 POUNDS (USING THE FLANGE MOUNT DETAIL), OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.

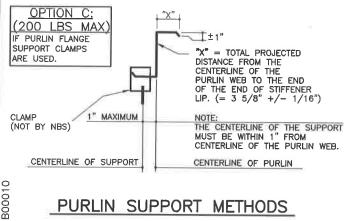


GENERAL RESTRICTION:

UNDER NO CIRCUMSTANCES CAN THE PURLIN STIFFENING LIP BE FIELD MODIFIED FROM THE FACTORY SUPPLIED CONDITION, ALSO DO NOT HANG ANYTHING FROM PURLIN STIFFENING LIP.

OPTIONS FOR SUPPORT ATTACHMENTS

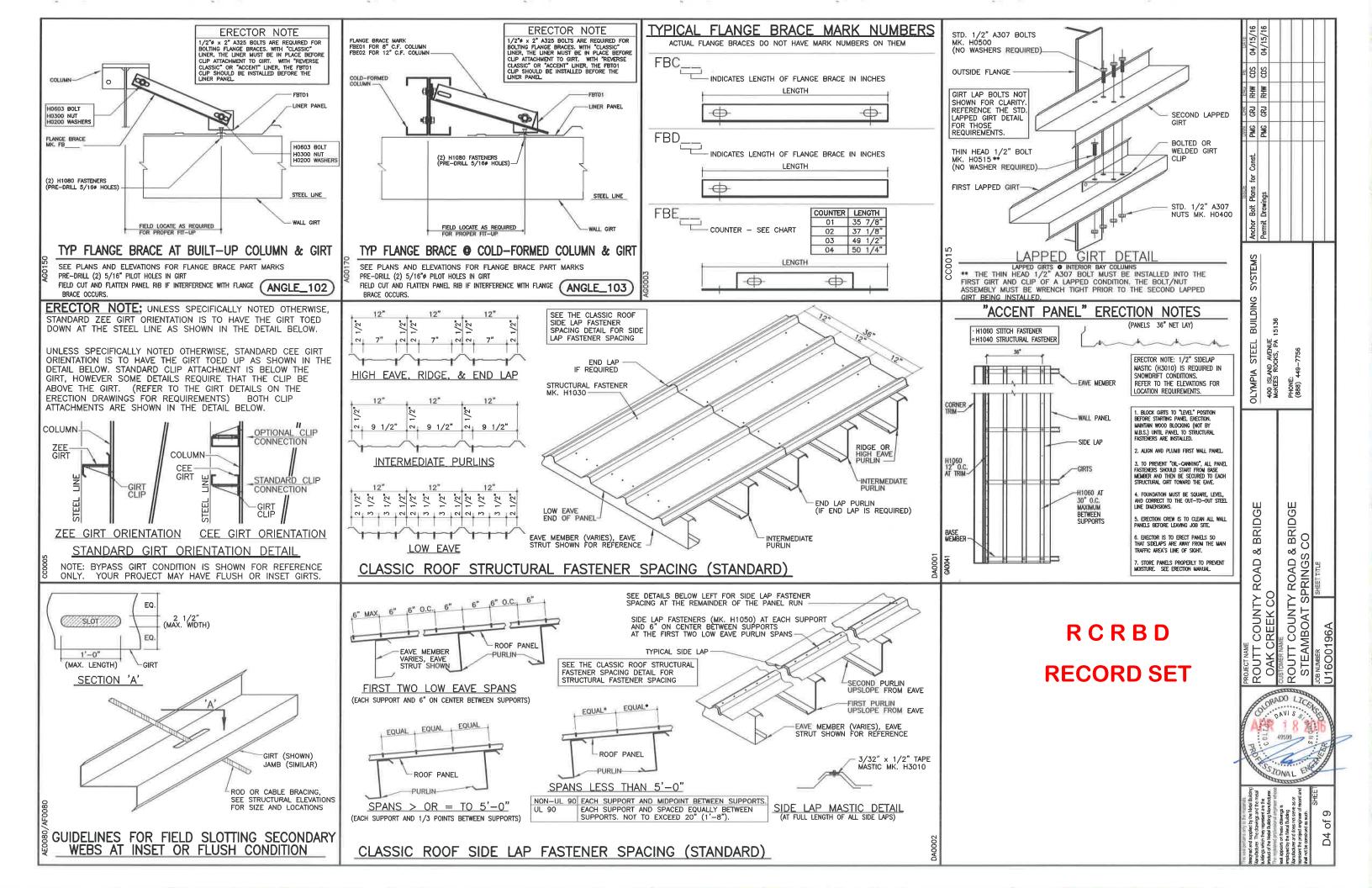


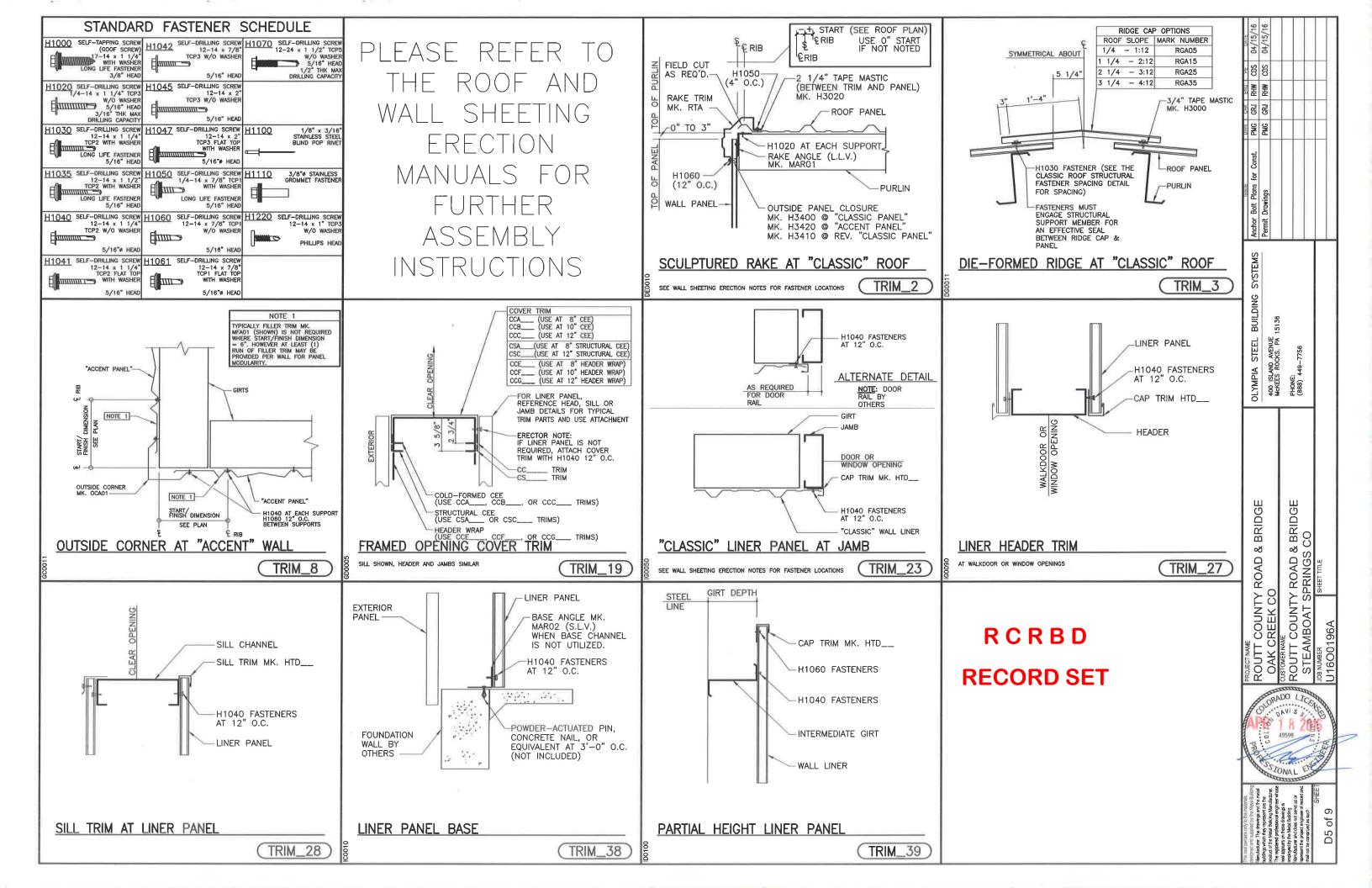


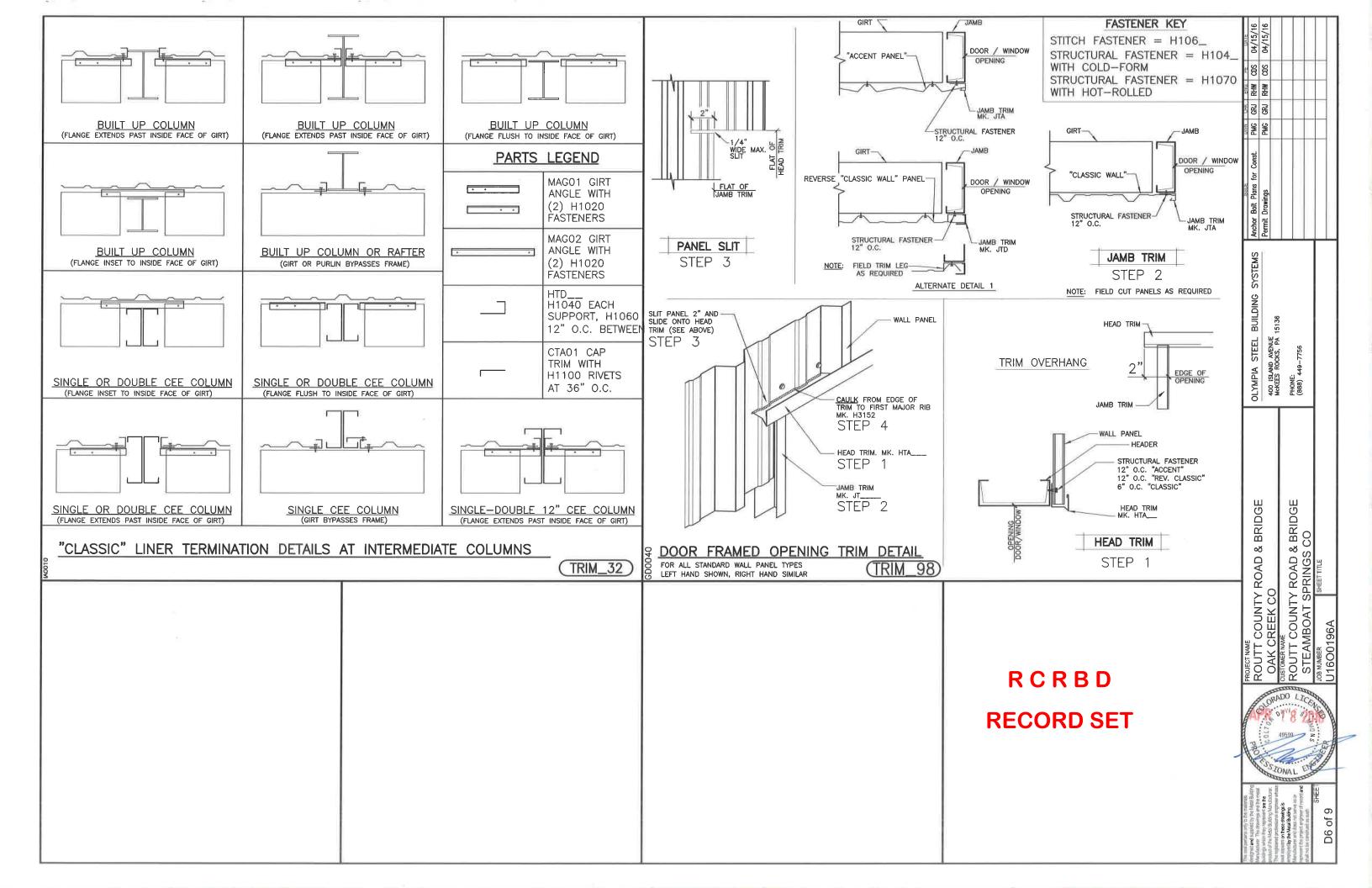
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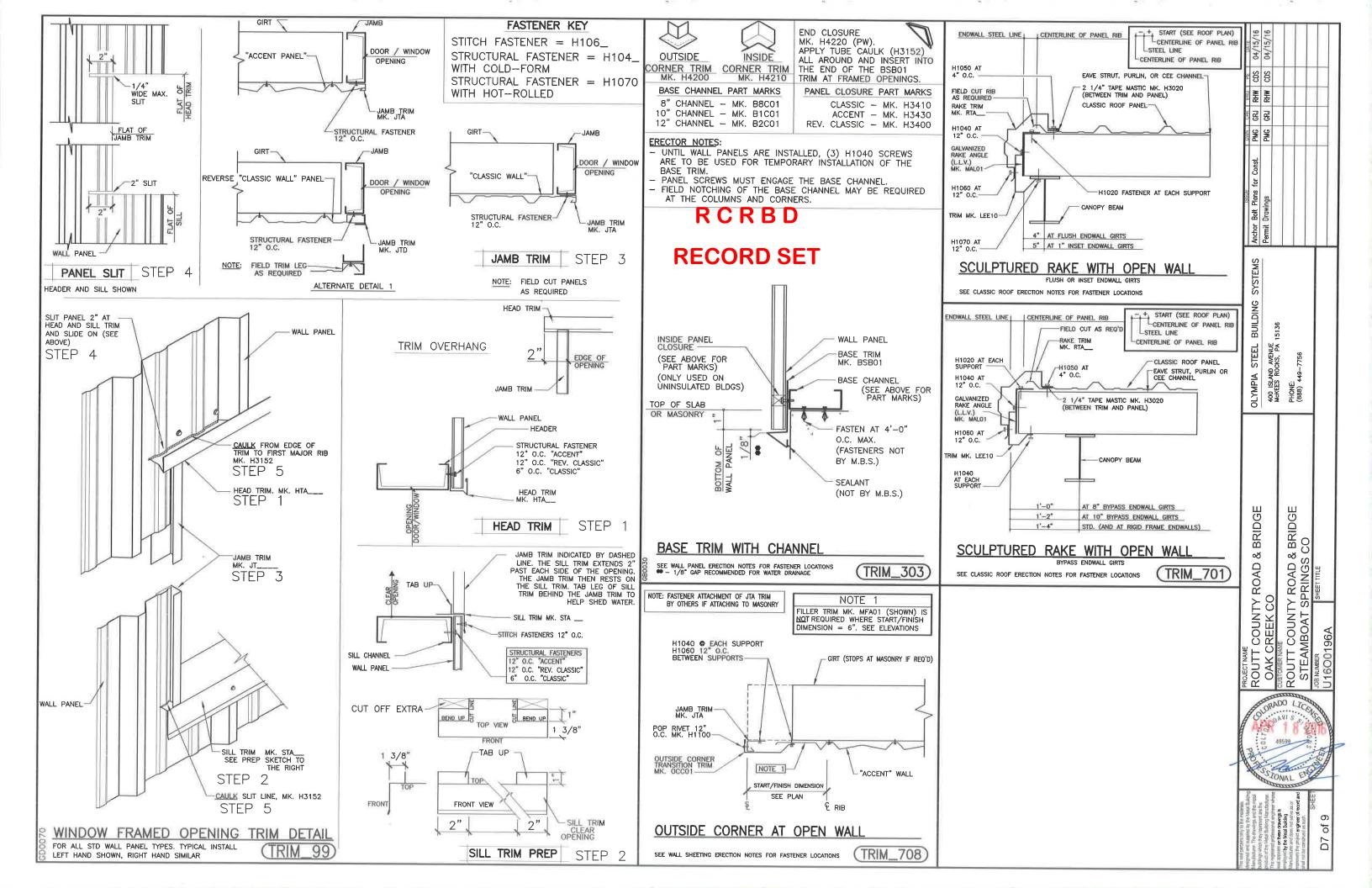
SYSTEMS BUILDING 15136 400 ISLAND AVENUE MCKEES ROCKS, PA OLYMPIA BRID(BRI ంర ంర ROAD ROAD ROUTT COUNTY F COUNTY OCIAS TONAL

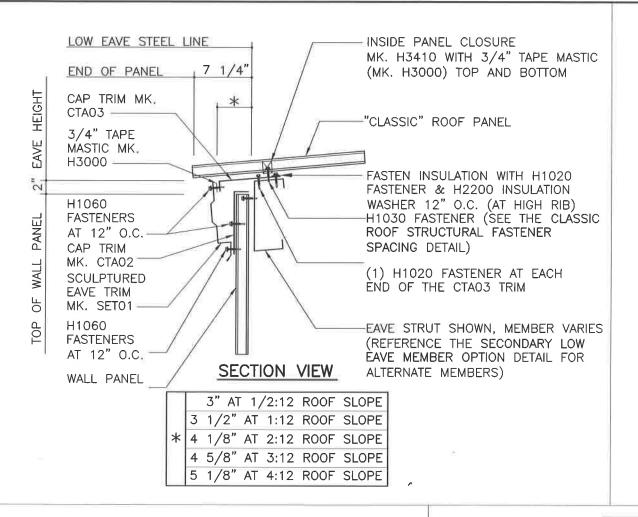
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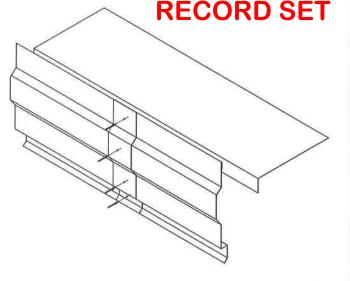








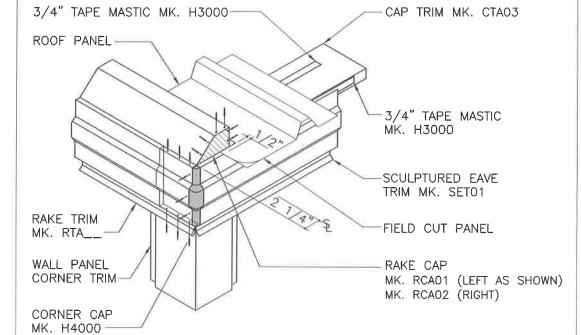
RCRBD



SCULPTURED EAVE TRIM SPLICE

APPLY A CONTINUOUS BEAD OF TUBE CAULK (MK. H3152) TO THE END OF THE ADJOINING TRIM PIECE AND LAP 1". FASTEN WITH (4) COLORED POP RIVETS (MK. H1100) AS SHOWN.

* STEEL LINE 3/4" TAPE MASTIC MK. H3000 CAP TRIM MK. CTA03 CAP TRIM MK. CTA02 CAP TRIM MK. CTA02 EAVE STRUT SHOWN, MEMBER VARIES SCULPTURED EAVE TRIM MK. SET01 WALL PANEL ISOMETRIC VIEW AT LOW EAVE



ISOMETRIC VIEW AT CORNER

→ POP RIVET

NOTE: CTA02 TRIM NOT SHOWN

IN THIS DETAIL FOR CLARITY

FOLLOW THE CLASSIC ROOF ERECTION MANUAL WITH THE FOLLOWING EXCEPTIONS AT SCULPTURED EAVE TRIM APPLICATIONS:

- 1) THE CTAO3 CAP TRIM ON THE EAVE STRUT MUST BE ERECTED PRIOR TO INSTALLING THE ROOF PANEL AND THE SCULPTURED EAVE TRIM. (SEE THE CLASSIC ROOF ERECTION MANUAL).
- 2) INSULATION MUST BE INSTALLED PRIOR TO INSTALLING THE ROOF PANELS. INSULATION IS NOT SHOWN IN THIS DETAIL FOR CLARITY. (SEE THE CLASSIC ROOF ERECTION MANUAL FOR PROPER INSTALLATION OF THE INSULATION)
- 3) INSTALL 3/4" TAPE MASTIC (MK. H3000) TO THE SHORT VERTICAL LEG OF THE CTA03 CAP TRIM. EXTEND THE SCULPTURED EAVE TRIM 2 1/4" PAST THE ENDWALL STEEL LINE (1" PAST THE EDGE OF THE WALL CORNER TRIM). COPE THE BOTTOM VERTICAL LEG FLUSH WITH THE EDGE OF THE CORNER TRIM. FASTEN THE TRIM TO THE WALL PANEL AND CAP TRIM WITH H1060 FASTENERS AT 12" O.C.
- 4) APPLY A CONTINUOUS BEAD OF TUBE CAULK (MK. H3152) AROUND THE PERIMETER OF THE RCA__ CORNER CAP, CLOSE TO THE INSIDE EDGE OF THE CAP.
- 5) INSERT THE CORNER CAP INTO THE SCULPTURED RAKE TRIM, LEAVING 1/2" EXPOSURE ALL AROUND. FASTEN WITH (3) H1100 COLORED POP RIVETS AT FRONT ONLY.
- 6) INSTALL THE RAKE CAP AT THE RAKE EDGE OF THE SCULPTURED EAVE TRIM & 1/2" FROM THE FIRST VERTICAL FACE OF THE SCULPTURED EAVE (AS SHOWN AT LEFT). UTILIZE TUBE CAULK (MK. H3152) AROUND THE PERIMETER OF EDGE OF THE RAKE CAP.
- 7) APPLY A BEAD OF TUBE CAULK (MK. H3152) 1 1/2" FROM THE FACE OF THE EAVE TRIM ALONG THE RAKE SIDE OF THE CORNER CAP. THIS BEAD SHOULD INCLUDE BOTH THE TOP & BOTTOM EDGES OF THE CORNER CAP.
- 8) INSTALL THE RAKE TRIM RTA__ PER THE CLASSIC ROOF ERECTION MANUAL, 1/2" FROM THE FACE OF THE SCULPTURED EAVE TRIM.
- 9) FASTEN THE CORNER CAP AND THE RAKE CAP, AS SHOWN AT LEFT, WITH (15) COLORED POP RIVETS (MK. H1100).

						12
SCULPTURED	EAVE	TRIM	w/	CLASSIC	ROOF	Visco
					-	109

SEE WALL PANEL ERECTION NOTES FOR FASTENER LOCATIONS

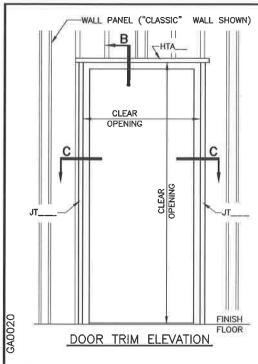
TRIM_850)

MCKEES ROCKS, PA 15: PHONE: (888) 449–7756	CAN CREEN CO. ROUTT COUNTY ROAD & BRIDGE STEAMBOAT SPRINGS CO JOB NUMBER U1600196A	PADO LICENTAL PROPERTY OF AVIS	INTERIOR WASHINGTON AND THE PROPERTY OF THE PR
OLYMPIA STEEL BY	PROJECT NAME ROUTT COUNTY ROAD & BRIDGE OAK CREEK CO	OLORA APPROVA	e Metal Burners and the metal Manufacturer.

PMG

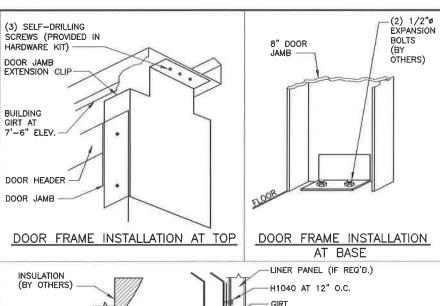
SYSTEMS

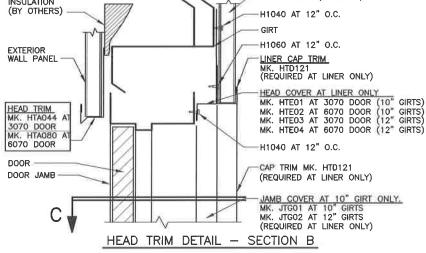
JILDING

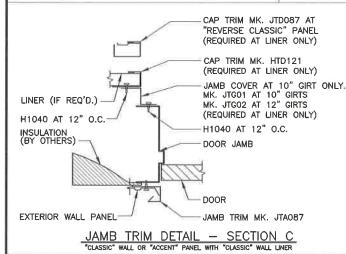


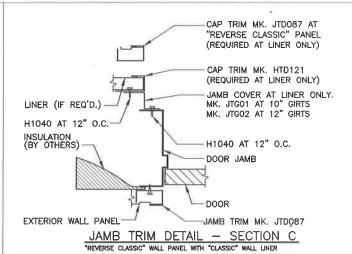
KNOCK DOWN DOOR ERECTION DETAILS

- 1) USE ONLY WHERE KNOCK DOWN DOORS ARE REQUIRED. SEE COVERSHEET (SHEET C1) FOR DOOR REQUIREMENTS.
- 2) FOLLOW DOOR AND FRAME ASSEMBLY INSTRUCTIONS PACKAGED WITH FRAME KIT.
- 3) HTA__ & JT___ TRIMS ARE FACTORY CUT TO LENGTH.









DO NOT ATTACH INTERMEDIATE GIRT BELOW 7'-6" TO PRE-ASSEMBLED DOOR SUB-JAMB. EXTRA JAMBS HAVE BEEN PROVIDED FOR ATTACHMENT OF THE INTERMEDIATE GIRT BELOW 7'-6".

	34	r Const. PMG GRJ RHW CDS 04/	GKU KHW CDS		
RCRBD			Permit Drawings		
RECORD SET		OLYMPIA STEEL BUILDING SYSTEMS	15136		
		OLYMPIA STEEL	400 ISLAND AVENUE McKEES ROCKS, PA 15136	PHONE: (888) 449-7756	_
		OAD & BRIDGE		OAD & BRIDGE	
		PROJECT NAME ROUTT COUNTY ROAD & E	OAK CREEK CO	ROUTT COUNTY ROAD 8	
		100	JORAL DE LA CONTRACTION DE LA	DO LIC	4 10 10 10 10

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	ABBREVIATIONS	NOTES
A, AMP	AMPERE	
AIC	AMPERE INTERRUPTING CAPACITY	
AF	FRAME RATING IN AMPERES	
AS	SWITCH RATING IN AMPERES	
AT	TRIP RATING IN AMPERES	
AWG	AMERICAN WIRE GAUGE	
С	CONDUIT	
CKT	CIRCUIT	
(E)	EXISTING TO REMAIN	
EC	EMPTY CONDUIT	
ELEC	ELECTRICAL	
EMT	ELECTRO METALLIC TUBING	
FA	FIRE ALARM	
G, GND	GROUND	
HP	HORSEPOWER	
MECH	MECHANICAL	
MCB	MAIN CIRCUIT BREAKER	
(N)	NEW EQUIPMENT OR DEVICE	
NEC	NATIONAL ELECTRIC CODE	
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	
NO	NORMALLY OPEN	
NTS	NOT TO SCALE	
ø, PH	PHASE	
PNL	PANEL	
PVC	POLYVINYL CHLORIDE CONDUIT	
PWR	POWER	
RSC	RIGID STEEL CONDUIT	
TEL	TELEPHONE	
TYP	TYPICAL	
UON	UNLESS OTHERWISE NOTED	
٧	VOLT	
VA	VOLT AMPERES	
W	WATT	
(X)	EXISTING TO BE DEMOLISHED	

TO UTILITY POLE MOUNTED POWER

TRANSFORMERS

EXISTING [

CT/PT

YAMPA VALLEY ELECTRIC ASSN. INC.

No changes to existing service or meter. Approved: <u>Jerry Nanio - YVEA.</u>

KWH

Meter and meter panels are to be

located as described by YVEA.

covered or concealed. Violation

They shall not be enclosed,

shall result in termination of

service.

METERING CABINET

∠3x(3"C − 4#300 MCM)<5>

10,000 AIC

<u>DIAGRAM NOTES</u>

MAIN DISTRIBUTION PANEL MDP

208/120V, 800-AMP, 3PH, 4W,

200A

3P

200A

3P

N •

G •

1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.

UNUSED BY THIS PROJECT.

PURCHASING ELECTRICAL EQUIPMENT.

3. REMOVE ALL CONDUCTORS, DEVICES AND CONDUIT RENDERED

4. ALL WIRING SHOWN IS SIZED FOR COPPER CONDUCTORS, UON

SYMBOLS	POWER SYMBOLS	NOTES
Ò	MOTOR OUTLET	
ď	FUSED DISCONNECT SWITCH SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE	
라	HEAVY DUTY NON-FUSED DISCONNECT SWITCH SWITCH XX/XX = AMP SWITCH/POLES	
M	COMBINATION MOTOR STARTER	
S _T	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD	
(°	STATIONARY — CIRCUIT BREAKER; RATING AS SHOWN ON PLANS	
9	SWITCH AND FUSE; RATING AS SHOWN ON PLANS	
~~~	SWITCH AND FUSE; RATING AS SHOWN ON PLANS	
Ю, О	JUNCTION BOX	
	SURFACE MOUNTED PANELBOARD OR TERMINAL CABINET	

SYMBOLS	DESIGNATION SYMBOLS	NOTES
Aaa	FIXTURE DESIGNATION  UPPER CASE LETTER INDICATES FIXTURE TYPE.  LOWER CASE LETTER INDICATES SWITCH LEG  NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN).	
<b>\$</b> a	LETTER INDICATES FIXTURES CONTROL (WHERE SHOWN)	
22	NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN)	

SYMBOLS	WIRING DEVICE SYMBOLS
•	20A, 125V, DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHERWISE
Ħ	SURFACE 20A, 125V, DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHERWISE
•	20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHERWISE
⊭	SURFACE 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET +18" UNO
•	SPECIAL PURPOSE RECEPTACLE OUTLET, +18" UNLESS NOTED OTHERWISE, NEMA CONFIGURATION AS NOTED ON PLANS
⊭	SURFACE SPECIAL PURPOSE RECEPTACLE OUTLET, +18" UNLESS NOTED OTHERWISE, NEMA CONFIGURATION AS NOTED ON PLANS
•	20A, 125V, DEDICATED DUPLEX RECEPTACLE OUTLET +18" UON
<b>€</b> GFI	DUPLEX OUTLET WITH GROUND FAULT INTERRUPTER
Φ	CEILING MOUNTED 20A, 125V, DUPLEX RECEPTACLE OUTLET
<b>#</b>	CEILING MOUNTED 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET
	FLOOR MOUNTED DUPLEX CONVENIENCE/TELECOM OUTLET WITH BLANK STAINLESS STEEL COVER. COORDINATE TYPE AND FINISH WITH ARCHITECT.
\$	SPST WALL SWITCH, LETTERS INDICATE THE NUMBER OF SWITCHES AND OUTLETS THEY CONTROL
<b>\$</b> D	DIMMER SWITCH
\$ _{os}	OCCUPANCY LIGHT CONTROL SWITCH; WALL MOUNTED

SYMBOLS	WIRING DEVICE SYMBOLS
•	20A, 125V, DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHERWISE
Ħ	SURFACE 20A, 125V, DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHERWISE
•	20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHERWISE
⊭	SURFACE 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET +18" UNO
	SPECIAL PURPOSE RECEPTACLE OUTLET, +18" UNLESS NOTED OTHERWISE, NEMA CONFIGURATION AS NOTED ON PLANS
⊭	SURFACE SPECIAL PURPOSE RECEPTACLE OUTLET, +18" UNLESS NOTED OTHERWISE, NEMA CONFIGURATION AS NOTED ON PLANS
•	20A, 125V, DEDICATED DUPLEX RECEPTACLE OUTLET +18" UON
<b>e</b> GFI	DUPLEX OUTLET WITH GROUND FAULT INTERRUPTER
Ф	CEILING MOUNTED 20A, 125V, DUPLEX RECEPTACLE OUTLET
<b>#</b>	CEILING MOUNTED 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET
	FLOOR MOUNTED DUPLEX CONVENIENCE/TELECOM OUTLET WITH BLANK STAINLESS STEEL COVER. COORDINATE TYPE AND FINISH WITH ARCHITECT.
\$	SPST WALL SWITCH, LETTERS INDICATE THE NUMBER OF SWITCHES AND OUTLETS THEY CONTROL
<b>\$</b> D	DIMMER SWITCH

	OFMED WOTEO				
BOLS	GENERAL NOTES				
DOE3	1. ALL WORK SHOWN IS NEW, UNLESS NOTED OTHERWISE.				
LET +18" UNLESS NOTED OTHERWISE	2. ALL WORK TO BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE, 2014 EDITION.				
ACLE OUTLET +18" UNLESS NOTED OTHERWISE	3. SEAL ALL CONDUIT PENETRATIONS OF FLOORS AND FIRE RATED ASSEMBLIES TO MAINTAIN FIRE RATING.				
CLE OUTLET +18" UNLESS NOTED OTHERWISE	4. PROVIDE NEW TYPEWRITTEN DIRECTORIES REFLECTING WORK PERFORMED FOR ALL NEW PANELBOARDS IN THIS PROJECT.				
RECEPTACLE OUTLET +18" UNO	5. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT				
T, +18" UNLESS NOTED OTHERWISE, NEMA	NUMBERS. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISCELLANEOUS FITTINGS, ETC. FOR A COMPLETE AND OPERABLE SYSTEM (HOMERUN SHOWN). BRANCH CIRCUIT INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND N.E.C.				
CLE OUTLET, +18" UNLESS NOTED OTHERWISE, NEMA					
	6. ALL NEUTRAL CONDUCTORS ON POWER BRANCH CIRCUITING ROUNDHOUSES TO BE #10 AWG UNLESS NOTED OTHERWISE.				
PTACLE OUTLET +18" UON					
INTERRUPTER					
RECEPTACLE OUTLET	SHEET LIST				
A NECE TACLE OUTLET	E 400 - 004/P04 - 40T - 004/F04/F0 - 44/P - 04/P04/F04/F04/F04/F04/F04/F04/F04/F04/F04/F				
DUPLEX RECEPTACLE OUTLET	E-100 SYMBOL LIST, SCHEDULES AND SINGLE LINE DIAGRAM				
CE/TELECOM OUTLET WITH BLANK STAINLESS	E-101 NEW PANELBOARD SCHEDULES AND LOAD CALCULATIONS				

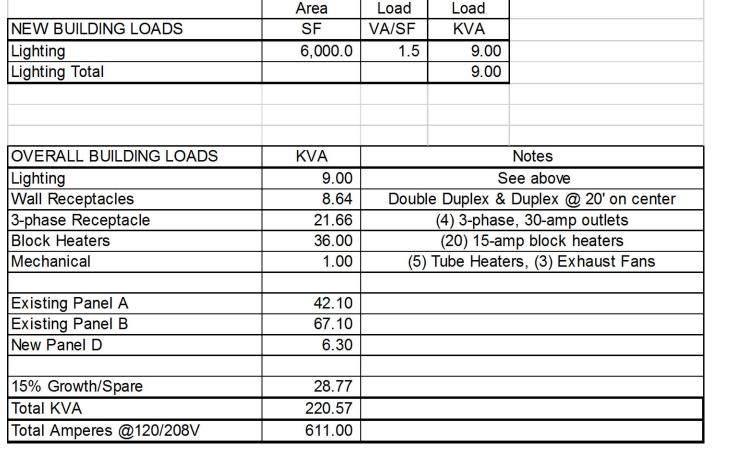
	TYKE PIERCE
	CONSTRUCTION
	38615 Klein Road Steamboat Springs, CO 80477

OAK CREEK

24500 County Road 27

SHOP

Oak Creek, CO



E-200 SPECIFICATIONS

# LOAD CALCULATIONS

TYI	PE	SYMBOL	DESCRIPTION	MANUFACTURER	ALTERNATE MANUFACTURER
F	-1		FLUORESCENT HIGH BAYS FOR GENERAL ILLUMINATION	LITHONIA IBZT5-4L-WD	APPROVED EQUAL
X	(1	፟	EXIT SIGN WITH BATTERY BACKUP EGRESS LIGHTING	LITHONIA — LED EXIT SIGN EXG—LED—EL—M6	APPROVED EQUAL
Х	(2	<b>&amp;</b>	BATTERY BACKUP EGRESS LIGHTING FIXTURE	LITHONIA ELM2	APPROVED EQUAL

LIGHTING SCHEDULE NOTES

- 1. ALL LAMPS SHALL BE PROVIDED BY THE CONTRACTOR.
- 2. CONTRACTOR TO SUBMIT FIXTURE TYPES TO OWNER AND ENGINEER PRIOR TO PURCHASE AND INSTALLATION.

LIGHTING SCOPE NOTES

1. LIGHTING LAYOUT FOR GENERAL NEW SPACE SHALL BE USING FIXTURE TYPE F1 IN 4 ROWS, SPACED 18 FEET APART, 10 FEET ON CENTER.

2. CONTRACTOR SHALL CONSULT WITH OWNER ON SEPARATE LIGHTING LAYOUTS FOR MECHANIC, WELDING AND SHOP ADDITION AREAS. FIXTURE TYPE F1 TO BE USED UNLESS DIRECTED OTHERWISE BY OWNER. 3. ONE EXTERIOR BUILDING MOUNTED LIGHT SHALL BE ADDED BETWEEN MAN DOOR AND GARAGE DOOR. FIXTURE TO MATCH EXISTING.

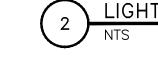
4. EXIT SIGNS AND EGRESS LIGHTING TO BE INSTALLED AS NEEDED AND VERIFIED IN THE FIELD.

POWER SCOPE NOTES

1. NEW WALL RECEPTACLES IN NEW SPACE SHALL BE A DOUBLE DUPLEX OUTLET AND A DUPLEX OUTLET EVERY 20 FEET ON CENTER ON INTERIOR WALLS.

2. PROVIDE (4) 3—PHASE RECEPTACLES, SPECIFIED BY OWNER, ONE IN MECHANICS AREA, ONE IN WELDING AREA AND ONE ON EACH SIDE WALL OF ADDITION AREA.

3. PROVIDE EXTERIOR FUSES AND HARD WIRING FOR (20) BLOCK HEATER CONTROLLERS, AS SPECIFIED BY OWNER. LOCATION TO BE DETERMINED IN THE FIELD.



LIGHTING SCHEDULE AND POWER SCOPE NOTES

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	ALTERNATE MANUFACTURER
F1		FLUORESCENT HIGH BAYS FOR GENERAL ILLUMINATION	LITHONIA IBZT5-4L-WD	APPROVED EQUAL
X1	\$	EXIT SIGN WITH BATTERY BACKUP EGRESS LIGHTING	LITHONIA – LED EXIT SIGN EXG-LED-EL-M6	APPROVED EQUAL
Х2	<b>\</b>	BATTERY BACKUP EGRESS LIGHTING FIXTURE	LITHONIA ELM2	APPROVED EQUAL

L.			SONAL EN
 L			
NL		Issue	By Date & Issue
		-	PERMIT SET -
	•		

Issue	By Date & Issue Description	Ву
_	PERMIT SET - 5.16.16	AW

WILDER ENGINEERING LLC

Andrew Wilder PE

1170 Blue Sage Drive

Steamboat Springs, CO 80487

P: 970-819-7848

E: andy@wilder-eng.com

Scale:
24x36 NTS
Description: LEGEND, SINGLE LINE DI
Project Name: OAK CREEK SHOP
Project Number: 201626
Sheet No

E-100

2. BRING ANY DISCOVERED CODE VIOLATIONS TO THE OWNER'S ATTENTION.

5. VERIFY AIC RATINGS WITH ELECTRICAL ENGINEER AND YVEA PRIOR TO

AS AN ADD-ALTERNATE PRICE: REPLACE EXISTING PANELS WITH NEW

PNL

100A MLO

EXPANDED SHOP

PNL

E1 E2 400A MLO 3

PNL

AND RE-CIRCUIT ACCORDING TO EXISTING CONDITIONS. LOCATE NEW PANEL D IN BREAK ROOM AREA. CONSULT WITH SHOP MANAGER ON BEST LOCATION OF NEW PANEL.

3-1/2"C - 4#350 MCM

2-1/2"C - 4#3/0 AWG & #6 GND

1 PNL

`1-1/2"C - 4#6 AWG

& #10 GND

RISER NOTES

200A MCB

& #4 GND

(E)PNL

100A MLO

1 PNL A

- GROUNDING ELECTRODE CONDUCTOR $\stackrel{ ext{4}}{\sim}$ 

200A MCB

LOCATE NEW PANEL E IN EXPANDED SHOP AREA. CONSULT WITH SHOP MANAGER ON BEST LOCATION OF NEW PANEL.

BOND NEUTRAL TO GROUND BUS AND THEN PROVIDE A #2/0 GROUND WIRE TO (2) GROUND BARS AND INCOMING COLD WATER PIPE. PROVIDE GROUND ROD AT 3/4" X 8' (COPPER CLAD STEEL).

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONNECTION TO YVEA POLE MOUNTED TRANSFORMERS. COORDINATE CONNECTION SCHEDULE WITH UTILITY COMPANY DURING CONSTRUCTION.

MOUN	NTING	SURF	ACE			P	A	N	E	L		Ε(	1)		(1)	10,0	000	A.I.C.	SYM
208/	120	VOLTS	3 PI	HASE	4	WII	RE			M	AIN		ML	0_				BUS	400 A
VC	DLT AM	PS			R	L	O	В	C		C	В	O	L	R		V	DLT AM	PS
Ø A	ØВ	ØС	DESCRI	PTION	E C	T G	L E	K R	I R		I R	K R	L E	T G	E C	DESCRIPTION	ØA	ØВ	ØС
1800			3-Phas	e Rec			3	20	1	A	2	20	1			Lighting	1200		
	1800		-				1	1	3	В	4	20	1			Lighting		1200	
		1800	-				ı		5	C	6	20	1			Lighting			1200
1800			3-Phas	e Rec			3	20	7	A	8	20	1			Lighting	1200		
	1800		-				ı	ī	9	В	10	20	1			Lighting		1200	
		1800	-				-	-	11	C	12	20	1			Lighting			1200
1800			3-Phas	e Rec			3	20	13	A	14	20	1			Lighting	1200		
	1800		-				_	-	15	В	16	20	1			Lighting		600	
		1800	-				ī	-	17	С	18	20	1			Mechanical			1000
1800			3-Phas	e Rec			3	20	19	A	20	20	1			Spare			
	1800		Η.				-	-	21	В	22	20	1			Spare			
		1800	-				-	-	23	С	24	20	1			Spare			
1080			Wall Re	cepts	6		1	20	25	A	26					Space			
	1080		Wall Re	cepts	6		1	20	27	В	28					Space			
		1080	Wall Re	cepts	6		1	20	29	C	30					Space			
1080			Wall Re	cepts	6		1	20	31	A	32					Space			
	1080		Wall Re	cepts	6		1	20	33	В	34					Space			
		1080	Wall Re	cepts	6		1	20	35	С	36					Space			
1080			Wall Re	cepts	6		1	20	37	A	38					Space			
	1080		Wall Re	cepts	6		1	20	39	В	40					Space			
			Spa	re			1	20	41	С	42					Space			
10440	10440	9360							V	A/LIN	Œ						3600	3000	3400
Ø A=	14040							ØB=	13	440							Ø C=	12760	
CO	NTINUC	OUS LOA	DS							]	NON-	CON	TIN	UOU	IS LC	OADS			
9000	x1.25=	11250	RI	ECEPTAC	PTO CLES REM				40		0.50=	86	40			OTHER	58600	x1.00	58600
		TO	TAL DES	SIGN kV	/A=	7	8		Τ	OTA	L D	ESIC	GN A	AM	PS=	218			

(1) Provide feed-through lugs.	

MOUN	NTING	SURF	FACE		P	A	N	E	L		Ε(	2)			10,0	000	A.I.C.	SYM
208,	/120	VOLTS	3 PHASE	4	WII	RE			M	AIN	FE	ED	THE	RU			BUS	400 A
V	OLT AM	PS		R	L	O	В	C		С	В	O	L	R		VC	DLT AM	PS
ØA	ØВ	ØС	DESCRIPTION	E C	T G	L E	K R	I R		I R	K R	L E	T G	E C	DESCRIPTION	ØA	ØВ	ØС
1800			Block Heater			1	20	43	A	44	20	1			Block Heater	1800		
	1800		Block Heater			1	20	45	В	46	20	1			Block Heater		1800	
		1800	Block Heater			1	20	47	C	48	20	1			Block Heater			1800
1800			Block Heater			1	20	49	A	50	20	1			Block Heater	1800		
	1800		Block Heater			1	20	51	В	52	20	1			Block Heater		1800	
		1800	Block Heater			1	20	53	C	54	20	1			Block Heater			1800
1800			Block Heater			1	20	55	A	56	20	1			Block Heater	1800		
	1800		Block Heater			1	20	57	В	58	20	1			Block Heater		1800	
		1800	Block Heater			1	20	59	C	60	20	1			Block Heater			1800
1800			Block Heater			1	20	61	A	62	20	1			Block Heater	1800		
			Spare			1	20	63	В	64	20	1			Spare			
			Spare			1	20	65	C	66	20	1			Spare			
			Spare			1	20	67	A	68	20	1			Spare			
			Space					69	В	70					Space			
			Space					71	C	72					Space			
			Space					73	A	74					Space			
			Space					75	В	76					Space			
			Space					77	C	78					Space			
			Space					79	A	80					Space			
			Space					81	В	82					Space			
			Space					83	С	84					Space			
7200	5400	5400				•		V	A/LIN	IE .		•	•			7200	5400	5400
ØA=	14400						Ø B=	10	800							Ø C=	10800	
CO	NTINUC	OUS LOA	DS						]	NON-	-CON	JTIN	UOU	SLO	OADS			
			Ţ	JP To	O 10	kVA			X	1.00=			_					
	x1.25=		RECEPTA	CLES											OTHER	36000	x1.00	36000
				REM	AIN	DER			x	0.50=			-					
		TC	OTAL DESIGN K	VA=	3	6		Т	OTA	I.D	FSI	GNI	ΔΜ	PS=	100			

YAMPA VALLEY ELECTRIC ASSN. INC. No changes to existing service or meter. Approved: <u>Jerry Nanio - YVEA.</u>

Meter and meter panels are to be located as described by YVEA. They shall not be enclosed, covered or concealed. Violation shall result in termination of service.

MOUN	NTING	SURF	ACE		ľ.	A		L	L		E	<u> </u>			10,0	000	A.I.C.	SYM
208/	[/] 120	VOLTS_	3 PHASE	4	WII	RE			M	AIN		200	) A		-		BUS	225 /
V	OLT AM	PS		R	L	O	В	С		С	B K	O	L	R		VC	DLT AM	PS
ØΑ	ØВ	ØС	DESCRIPTION	E C	T G	L E	K R	I R		I R	R	L E	T G	E C	DESCRIPTION	ØA	ØВ	ØС
750			Center Heat			1	20	1	A	2	20	1			Heat/Fans	750		
	1000		Lathe			3	20	3	В	4	20	1			Heat/Flag Ltg		1000	
		1000	-			-	-	5	С	6	20	1		4	Recept			720
1000			-			1	-	7	A	8	20	1			Welding Fan	750		
			Space					9	В	10	20	2			Plasma Cutter		1000	
			Space					11	С	12	-	_			-			1000
2000			Hoist			3	30	13	A	14	100	2			Welder	5000		
	2000		E				L	15	В	16	-	-			=		5000	
		2000	-			1	-	17	C	18					Space			
750			VR System			1	20	19	A	20	30	1			Fuel Is	2200		
	3000		Air Compressor			3	50	21	В	22	15	1		2	Recept		360	
		3000	_			-	-	23	С	24	20	2			Roof Fan			1000
3000			_			1	ı	25	A	26	-	-			_	1000		
	2600		S Out Rec			2	50	27	В	28	20	2			Wall Fan		1000	
		2600	-			-	-	29	С	30	-	-			-			1000
1800			Patch Trlr			2	30	31	A	32	20	2			Roof Fan	1000		
	1800		-			•	-	33	В	34	-	-			-		1000	
			Space					35	С	36	100	3			Welder			5000
			Space					37	A	38	-	_			-	5000		
			Space					39	В	40	-	I			-		5000	
								41	C	42								
9300	10400	8600						V	A/LIN	ΙE						15700	14360	8720
Ø A=	25000	,					ØB=	24	760							Ø C=	17320	
CO	NTINUC	US LOA											UOU	SLO	DADS			
			Ţ	JP TO	0 10 1	kVA	10	80	xl	=00.	10	80						
	x1.25=		RECEPTAC							OTHER	66000	x1.00	6600					
				REMAINDER         x0.50=           kVA=         67         TOTAL DESIGN AMPS=         186														

																	EXI	STING
MOUN	NTING	SURF	FACE		P	A	N	E	L		(	)		_	10,0	000	A.I.C.	SYM
208/	120	VOLTS	3 PHASE	4	WII	RE			M	AIN		M	LO				BUS	100 A
VC	DLT AM	PS		R E	L T	O L	B K	C I		C I	B K	O L	L T	R E		V	OLT AM	IPS .
ØA	ØB	ØС	DESCRIPTION	C	G		R	R		R	R	E	G	C	DESCRIPTION	ØA	ØВ	ØC
360			Recepts	2		1	20	1	A	2	30	2			Pressure Washer	2400		
	360		Recepts	2		1	20	3	В	4	-				-		2400	
			Space					5	C	6					Space			
			Space					7	A	8					Space			
			Space					9	В	10					Space			
			Space					11	C	12					Space			
			Space					13	A	14					Space			
			Space					15	В	16					Space			
			Space					17	C	18					Space			
			Space					19	A	20					Space			
			Space					21	В	22					Space			
			Space					23	C	24					Space			
			Space					25	A	26					Space			
			Space					27	В	28					Space			
			Space					29	C	30					Space			
360	360							V	A/LIN	Æ			-			2400	2400	
ØA=	2760	•				1	ØB=	27	760							ØC=	•	
CO	NTINUC	US LOA	DS						1	NON	-CON	TIN	UOU	JS LO	DADS			
	x1.25=			CLES					x				-		OTHER	4800	x1.00	4800
		TC	TAL DESIGN k												15			

MOUN	NTING	SURF	ACE			P	A	N	E	L			)			10,0	000	A.I.C.	SYM
208/	/120	VOLTS	3	PHA SE	4	WII	RE			M	AIN		MI	_O	-			BUS	100 A
VC	OLT AM	PS		R E	L T	P O	B K	C		C	B K	P O L	L T	R E		V	OLT AM	PS	
ØA	Ø A Ø B Ø C DESCRIPTION						E	R	R		R	R	E	G	C	DESCRIPTION	Ø A	ØB	ØС
1200			Refri	igerator			1	20	1	A	2	20	1		4	Office Recept	720		
	360		Re	cepts	2		1	20	3	В	4	20	1		2	Bathroom		860	
		900	Re	cepts	5		1	20	5	C	6	20	1			Spare			
720			Re	cepts	4		1	20	7	A	8	20	1			Spare			
	1200		Lig	ghting			1	20	9	В	10	20	1			Spare			
			S	pare			1	20	11	C	12					Space			
			S	pare			1	20	13	A	14					Space			
			S	pare			1	20	15	В	16					Space			
			S	pace					17	C	18					Space			
1920	1560	900							V	A/LIN	Œ						720	860	
$\emptyset A =$	2640	51						Ø B=	24	20							Ø C=	900	
CO	NTINUC	OUS LOA	DS							]	NON	CON	TIN	UOU	S LC	DADS			
1200	x1.25=	1500		RECEPTAC	P TO CLES REM			-	60		0.50=	30	60	-		OTHER	1700	x1.00	1700
		TC	TAL D	ESIGN kV	/A=	(	6		T	OTA	L D	ESIC	GN A	AM	PS=	17			

MAIN	SERVICE L	RVICE LOAD SUMMARY					
		A					
Load	Cont	Rec	Other	Total	A		
PANEL A	4.3	7.6	29.2	42.1	117		
PANEL B		1.1	66.0	67.1	186		
PANEL D	1.2	3.1	1.7	6.3	17		
PANEL E(1)	9.0	8.6	58.6	78.5	218		
Growth/Spare			29.5	29.5	82		
SubTotal	14.5	20.3	185.0	218.2	kVA		
25% of Largest Motor					kVA		
Total				218.2	kVA		
			605.8	Amps at	208 V		

OVERALL	BUILDING	LOAD	CALCULATION
NTS			

MOID	ITDIC	O.L.D.	- 4 0 5			P	٨	N	F	L		Δ	1			40.6		A T.C.	0373.4
MOUI	IIIII	SURF	ACE	=				T				,	1			10,0	000	A.I.C.	SYM
208/	120	VOLTS	3	PHA SE	4	WIF	RE			$\mathbf{M}_{2}$	AIN		200	A		6		BUS	225 A
V	OLT AM	PS			R	L	O	В	С		C	В	O	L	R		V	DLT AM	PS
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	1000			ghting			1	25	3	В	4	20	1		4	Recept		720	
		1000	Nor	th Door			1	20	5	С	6	20	1		4	Recept			720
1000			Li	ghting			1	25	7	A	8	20	1			Break Room	1000		
	1000		Li	ghting			1	25	9	В	10	20	1			Break Room		1000	
		1000	Li	ghting			1	25	11	C	12	20	1		4	Recept			720
720			R	ecept	4		1	20	13	A	14	20	1		4	Recept	720		
	1000		Dril	II Press			1	20	15	В	16	20	1			Work Bench		1000	
		720	R	ecept	4		1	20	17	C	18	20	1			Office			1000
720			R	ecept	4		1	20	19	A	20	20	2			Recept	1000		
			S	pace					21	В	22	_	_			-		1000	
			S	pace					23	С	24	20	2			Recept			1000
			S	pace					25	A	26	_	-				1000		
			S	pace					27	В	28	60	2			Bench		3100	
		1000	Wate	er Heater			1	20	29	C	30	-	-			-			3100
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	610		Ba	throom	2		1	20	33	В	34	_	ī			-		3100	
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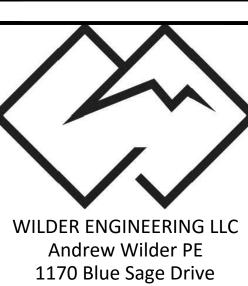


# OAK CREEK SHOP

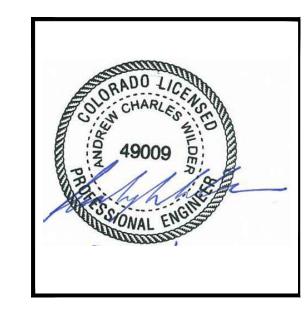
24500 County Road 27 Oak Creek, CO

# TYKE PIERCE CONSTRUCTION

38615 Klein Road Steamboat Springs, CO 80477



Steamboat Springs, CO 80487 P: 970-819-7848 E: andy@wilder-eng.com



Issue	By Date & Issue Description	Ву
_	PERMIT SET - 5.16.16	AW

Scale:	
2	24x36_NTS
Descri	ption: SCHEDULES
Projec	t Name: OAK CREEK SHOP
Projec	t Number: 201626
	Sheet No.
	F-101

**SECTION 16010 - BASIC ELECTRICAL REQUIREMENTS** 

1) PART 1 GENERAL

a) POWER AND CONTROL WIRING

i) Provide power system conduit and wiring to mechanical equipment. Controls system conduit and wiring for mechanical systems is included under Division 15. "Power" wiring includes line voltage wiring from distribution apparatus to disconnecting means provided or installed under this section, and from such disconnecting means to motors, and to terminal boxes of 'package' equipment. "Controls" wiring includes wiring, regardless of voltage, which provides start-stop control for mechanical equipment and/or which is used to monitor functions of mechanical systems. Where line voltage wiring is extended from a local disconnecting means to relays, thermostats, by-pass timers, starter coils or the like, or from mechanical control panels or motor control centers to control devices, such extensions are considered "control" wiring.

b) MOUNTING HEIGHTS

i) Mounting heights and locations: verify the exact location of equipment with architect prior to installation. Wall mounted devices requiring operational access shall be mounted a minimum of 15 inches above finished floor to bottom of device and a maximum of 48 inches above finished floor to top of device. Visual alarms shall be mounted not less than 80 inches to the bottom or 96 inches to the top of the device.

c) REGULATORY REQUIREMENTS i) Conform to:

(1) NFPA-70 - National Electric Code.

ii) Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having

jurisdiction, the Owner's insurance underwriter, and applicable base building standards.

iii) When conflict exists between two or more governing codes, comply with the stricter requirement. iv) Obtain permits, and request inspections from authority having jurisdiction.

d) PROJECT/SITE CONDITIONS

i) Install Work in locations shown on Drawings, unless prevented by Project conditions. Coordinate installation of work in available space with work furnished under other Divisions.

2) PRODUCTS

a) Where manufacturer's model or series numbers are specified or shown, these indicate generally acceptable types required. Furnish products which comply with all requirements, as specified or shown.

b) When more than one unit of the same class of equipment is required, provide units produced by a single manufacturer.

a) Furnish test equipment, facilities, and technical personnel required to perform field tests.

b) At completion of job, check voltage at several points of utilization on the system. Energize all loads installed.

a) Clean all fixtures and equipment at the completion of the project. Wipe clean exposed lighting fixture reflectors and trim pieces with a non-abrasive cloth just prior to occupancy.

a) Upon completion of the Work, deliver to Architect and up-to-date set of "as-built" record drawings on a reproducible medium including AutoCAD.

6) DEMOLITION

a) Remove, relocate, and reroute existing electrical equipment to facilitate new construction or remodeling work.

b) Examine the site to observe and note existing conditions prior to submitting a bid.

c) Schedule demolition in advance. Schedule work to avoid disruption of normal operations.

d) Reconnect circuits serving equipment required to remain in service to other panelboards, motor control centers, or other appropriate distribution equipment. Provide additional panelboards, motor control centers, or other appropriate distribution equipment where there is insufficient available capacity in remaining existing equipment for reconnection.

e) Remove existing conduit and wire back to panelboard, motor control center, or other distribution source.

f) Where a circuit is interrupted by removal of a device or fixture from that circuit, provide additional conduit and wire to restore service to the remaining devices and fixtures on that circuit.

g) Electrical equipment to be removed that is in good working order shall be carefully removed and offered to the Owner. Items rejected by the Owner shall be removed from the project site and properly disposed of.

YAMPA VALLEY ELECTRIC ASSN. INC. No changes to existing service or meter. Approved: Jerry Nanio - YVEA.

> Meter and meter panels are to be located as described by YVEA. They shall not be enclosed, covered or concealed. Violation shall result in termination of service.

**SECTION 16100 - BASIC MATERIALS AND METHODS** 

1) PART 1 GENERAL

a) REFERENCES

i) All equipment and installations shall meet or exceed minimum requirements of ADA, ANSI, ASTM, IEEE, IES, NEC, NEMA, NETA, NFPA, OSHA, SMACNA, UL, and the State Fire Marshal. Equipment shall be certified for use in the State of the project and shall meet the State energy code. Provide products and materials that are new, clean, free of defects, and free of damage and corrosion.

b) PERFORMANCE REQUIREMENTS

i) Provide support system for equipment and conduit, including wiring, with a minimum safety factor of 4. For empty conduits, include weight of 4 type XHHW wires of maximum permissible size.

i) All equipment and installations shall meet or exceed minimum requirements of ADA, ANSI, ASTM, IEEE, IES, NEC, NEMA, NETA, NFPA, OSHA, SMACNA, UL, and the State Fire Marshal. Equipment shall be certified for use in the State of the project and shall meet the State energy code. Provide products and materials that are new, clean, free of defects, and free of damage and corrosion.

2) PART 2 PRODUCTS

a) CONDUIT

i) General

(1) Exposed Dry and Damp Locations:

(a)Use electrical metallic tubing.

(2) Concealed Locations:

(a)Furred, Ceiling Spaces and Stud Walls: Use electrical metallic tubing.

(b) Connections to Lighting Fixtures in Accessible Ceilings: Use flexible conduit. (3) Equipment Connections:

(a)Connections to Liquid-Handling Equipment in Dry Locations: Use liquid-tight flexible conduit.

(4) Equipment for Dry Systems in Dry Locations: Use flexible conduit.

ii) Electrical Metallic Tubing:

(1) Continuous, seamless steel tubing, galvanized or sherardized on exterior, coated on interior with smooth hard finish of lacquer, varnish or enamel, with steel, set screw or compression type fittings. Provide concrete type

(2) Use for general purpose feeders and branch circuits.

iii)Flexible Steel Conduit:

(1) Single strip, continuous, flexible interlocked double-wrapped steel, hot dip galvanized inside and out forming smooth internal wiring channel, with steel, compression type fittings.

(2) Use in dry locations only, connections to lighting fixtures in suspended ceilings, connections to equipment installed above suspended ceilings, transformer connections, busway plug in units, and connections to equipment

where vibration isolation is required, maximum length of 6 feet. iv)Liquid Tight Flexible Steel Conduit:

(1) Same as flexible steel conduit except with tough, inert, watertight plastic outer jacket. Fittings shall be cast malleable iron body and gland nut, cadmium plated with one-piece brass grounding bushings threaded to interior of conduit. Spiral molded vinyl sealing ring between gland nut and bushing and nylon insulated throat.

(2) Use same as flexible steel conduit in damp or wet locations and at motor connections.

b) BUILDING WIRE AND CABLE

i) Provide wire with a minimum insulating rating of 600 volts, except for wire used in low voltage (below 50 volts) control or signal systems. The use of teflon (multi-conductor) for low tension systems may be permitted for fire alarm, signal and communication systems (voice and data) as approved on shop drawings by engineers and where permitted by local codes and union practice.

(1) Electrical grade, annealed copper, and fabricated in accordance with ASTM standards. Minimum size number 12 AWG for branch circuits; number 14 AWG for control wiring.

(2) Unless otherwise specified, all wires numbers 10 and smaller shall be solid.

(3) All wires number 8 and larger shall be stranded in accordance with ASTM Class B stranding designations.

(4) Control wires shall be stranded in accordance with ASTM Class B stranding designations.

(5) Cables for low tension systems shall be multi-conductor, 16 gauge, color coded and insulated in armored cable assembly, with number of conductors as required.

(6) All 600 volt wire and cables unless otherwise specified shall be single conductor suitable for use in wet and dry

iii)Connectors

(1) Make connections, splices, taps and joints with solderless devices, mechanically and electrically secure. Protect exposed wires and connecting devices with electrical tape or insulation to provide insulation values not less than on conductor.

iv) Cables (No. 8 and Larger):

(1) Use set screw or compression type connectors, taps and splices specifically designed for the particular connection. Insulate splice either by taping or by use of "Bakelite" covers designed to fit around splice.

v) Branch Circuit Wires (Number 10 and Smaller): Use any of the following types of terminals and connecting devices: (1) Hand Applied: Coiled, tapered, spring wound devices with a conducting corrosion-resistant coating over the spring steel and a plastic cover and skirt providing full insulation for splice and wired ends. Screw connector on by

(2) Tool Applied: Steel cap, with conduction and corrosion resistant metallic plating, open at both ends, fitted around the twisted ends of the wire and compressed or crimped by means of a special die designed for the purpose. Specifically fitted plastic or rubber insulating cover wrap over each connector.

c) BOXES

i) Pressed steel, galvanized or cadmium-plated, 4 inches minimum octagonal or square with galvanized cover or extension

ii) Back-to-back outlets in the same wall, or "through-wall" type boxes are not permitted. Provide 12 inch minimum spacing for outlets shown on opposite sides of a common wall. Provide acoustical potting compound on all outlet

d) WIRING DEVICES

i) Switches and Receptacles: Arrow Hart, Hubbell, Leviton, Pass & Seymour, or Slater. ii) Wall Dimmers: Lutron.

iii)Occupancy Sensors: Mytech, Novitas, or Watt Stopper.

iv)Floor Boxes and Fittings:

interrupting capacity (277/480V).

grounding conductor.

(1) Poke through type: Wiremold Legrand.

(2) Recessed flush floor box type: Steel City or Wiremold Legrand. v) Plugstrip: Wiremold.

vi)Device and cover plate colors shall be as selected by Architect.

e) SUPPORTS

i) Support raceways on accepted types of wall brackets, specialty steel clips, or hangers, ceiling trapeze hangers, or malleable iron straps. Plumber's perforated straps are not permitted. Acceptable manufacturers' brackets or hangers are Kindorf, Elcan, Binkley, Multi-Frame, Power-Strut, or Unistrut. Do not suspend raceways or equipment from other raceways, steam, water, or other piping or ductwork, except as otherwise permitted. Provide independent and secure support methods. f) PANELBOARDS

i) Acceptable Manufacturers: Cutler-Hammer/Westinghouse, General Electric, Siemens, or Square D/Groupe Schneider. ii) AIC Rating: Branch panelboards and overcurrent protection devices shall have a minimum short circuit rating of 10,000

RMS symmetrical amperes minimum interrupting capacity (120/208V) or 14,000 RMS symmetrical amperes minimum

iii) AIC Rating: Distribution panelboards and overcurrent protection devices shall have a minimum short circuit rating of 42,000 RMS symmetrical amperes minimum interrupting capacity (120/208V) or 200,000 RMS symmetrical amperes minimum interrupting capacity (277/480V).

iv) Enclosures: Corrosion resistant galvanized (zinc finished) sheet steel. Fronts shall be cold rolled steel, finish coated with ANSI 61 grey enamel over a rust inhibitor. Panel locks shall be keyed alike.

v) Doors: One piece bolt on front with a lockable hinged door over the overcurrent protection devices.

vi)Bus Bars: Silver plated aluminum or copper. Neutral bus shall be full size. Neutral bus shall be 200% rated when supplied from a double neutral feeder. Provide an equipment ground bus in each panelboard. In addition to the equipment ground bus, provide an isolated ground bus when supplied from a feeder which includes an isolated

vii) Overcurrent Protection Devices: Molded case circuit breakers for branch panelboards and 120/208V rated distribution panels, and fusible switch units for 277/480V rated distribution panels.

g) MOTOR STARTERS

i) Acceptable Manufacturers: Eaton/Cutler-Hammer, General Electric, Siemens, or Square D/Groupe Schneider.

iii)Fractional Horsepower Manual Starter: General-purpose, Class A, manually operated, full-voltage controller for fractional horsepower induction motors, with thermal overload unit, and toggle operator.

iv) Voltage, Rating and Thermal Element: As required by motor controller.

h) PULL LINE

i) 1/8 inch diameter braided yellow polypropylene.

v) Enclosure: NEMA ICS 6; Type 1.

a) INSTALLATION i) Conduit

3) PART 3 EXECUTION

(1) Install conduit in accordance with NECA "Standard of Installation".

(2) Do not combine individual homeruns into common conduit.

(3) Do not support conduit with wire or perforated pipe straps. Remove wire used for temporary supports.

(4) Arrange conduit to maintain headroom and present neat appearance.

(5) Use conduit hubs to fasten conduit to cast boxes.

(6) Provide insulated equipment ground conductor in flexible conduit.

(7) Install conduit to preserve fire resistance rating of partitions and other elements. (8) Do not attach conduit to ceiling support wires.

ii) Building Wire and Cable

regulatory requirements.

(1) Use conductor not smaller than 12 AWG for power and lighting circuits.

(2) Neatly train and lace wiring inside boxes, equipment, and panelboards.

(3) Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise. (4) Use hardened and tempered steel, tin-plated or stainless steel Belleville washer with slightly larger tin-plated mild steel flat washer for aluminum lugs.

(5) Use insulated spring wire connectors with plastic caps for copper conductor splices and taps, 8 AWG and

(1) Install electrical boxes as shown on Drawings, and as required for splices, taps, wire pulling, equipment

connections and compliance with regulatory requirements.

(2) Install electrical boxes to maintain headroom and to present neat mechanical appearance. (3) Install boxes to preserve fire resistance rating of partitions and other elements; arrange boxes to meet

(4) Align adjacent wall-mounted outlet boxes for switches, thermostats, and similar devices to each other. (5) Do not use through-walls boxes or install flush mounting boxes back-to-back in walls; provide minimum 6 inch

separation. Provide minimum24 inches separation in acoustic rated walls.

(6) Use stamped steel bridges in bar hanger assemblies to fasten flush mounting outlet box between studs. (7) Use adjustable steel channel fasteners for hung ceiling outlet box.

(8) Do not fasten boxes to ceiling support wires.

(9) Support steel metal boxes independently of conduit.

(10) Use gang box where more than one device is mounted together, including floor boxes. Do not use sectional

(11) Plaster Rings: Use for all concealed work; depth of rings as required to reach finished surfaces.

(12) Coordinate trimming of openings for outlet boxes in partitions to achieve neat, closely-fitting openings.

(13) Install knockout closure in unused box opening. iv) Wiring Devices

(1) Install devices plumb, level, and rigidly in place.

(2) Install switches 2 inches to 8 inches from trim on the strike side.

(3) Install decorative plates on switch, receptacle, and blank outlets in finished areas. Use multi-gang plates for multiple devices.

(4) Connect wiring devices by wrapping conductor around screw terminal.

v) Supporting Devices

(1) Fasten hanger rods, conduit clamps, and outlet and junction boxes to building structure using expansion anchors, beam clamps, steel ramset fasteners.

(2) Use toggle bolts or hollow wall fasteners in plaster or gypsum board partitions and walls; sheet metal screws or spring steel bar retainer clips in sheet metal studs.

(3) Do not fasten supports to piping, ductwork, mechanical equipment, or conduit.

(4) Do not use powder-actuated anchors without specific permission.

(5) Do not drill structural steel members without specific permission. (6) Fabricate supports from structural steel or steel channel, rigidly welded or bolted to present a neat appearance.

Use hexagon head bolts with spring lock washers under nuts. vi)Electrical Identification

(1) Provide wire markers on each conductor in panelboard gutters, pull boxes, and at load connection. Identify with branch circuit for power and lighting circuits, and with control wire number as indicated on equipment manufacturer's shop drawings for control wiring. If more than one neutral conductor is present, mark each with

related circuit numbers.

(2) Color code all secondary branch circuit and feeder conductors as follows: (a)Four Wire, Three Phase, Grounded Wye System: For 120/208 volt systems, use one black, one red, one blue,

one white (neutral). For 277/480 volt systems, use one brown, one orange, one yellow and one gray (neutral). (3) Use wire with insulation of required color. For sizes of wire, which may not be available in specified colors use

self-adhesive wrap around, markers of solid colors to color code conductors. (4) Color code conductors at accessible locations.

(5) Pull Rope Marking: Affix label identifying termination point at each end of pull rope. vii) Disconnect Switches

(1) Install disconnect switches shown mounted on walls at +4'-6" to centerline of switch. (2) Install disconnect switches shown on or adjacent to equipment on field fabricated galvanized steel frames.

(1) Provide filler plates for unused spaces in panelboards.

(2) Provide typed circuit directory in plastic holder for each branch circuit panelboard.

ix) Motor Starters (1) Install motor control equipment in accordance with manufacturer's instructions.

(2) Select and install heater elements in motor starters to match installed motor characteristics. x) Pull Line: Provide in each empty conduit except sleeves and nipples; leave 8 inches of slack at each outlet. xi)Firestopping: Provide firestopping around all pipes, conduits, sleeves, etc., which pass through rated walls, partitions

**END OF SECTION** 

viii) Panelboards

OAK CREEK

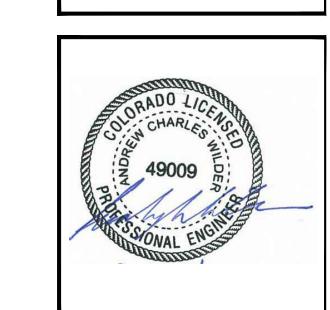
24500 County Road 27 Oak Creek, CO

# TYKE PIERCE **CONSTRUCTION**

38615 Klein Road Steamboat Springs, CO 80477



WILDER ENGINEERING LLC Andrew Wilder PE 1170 Blue Sage Drive Steamboat Springs, CO 80487 P: 970-819-7848 E: andy@wilder-eng.com



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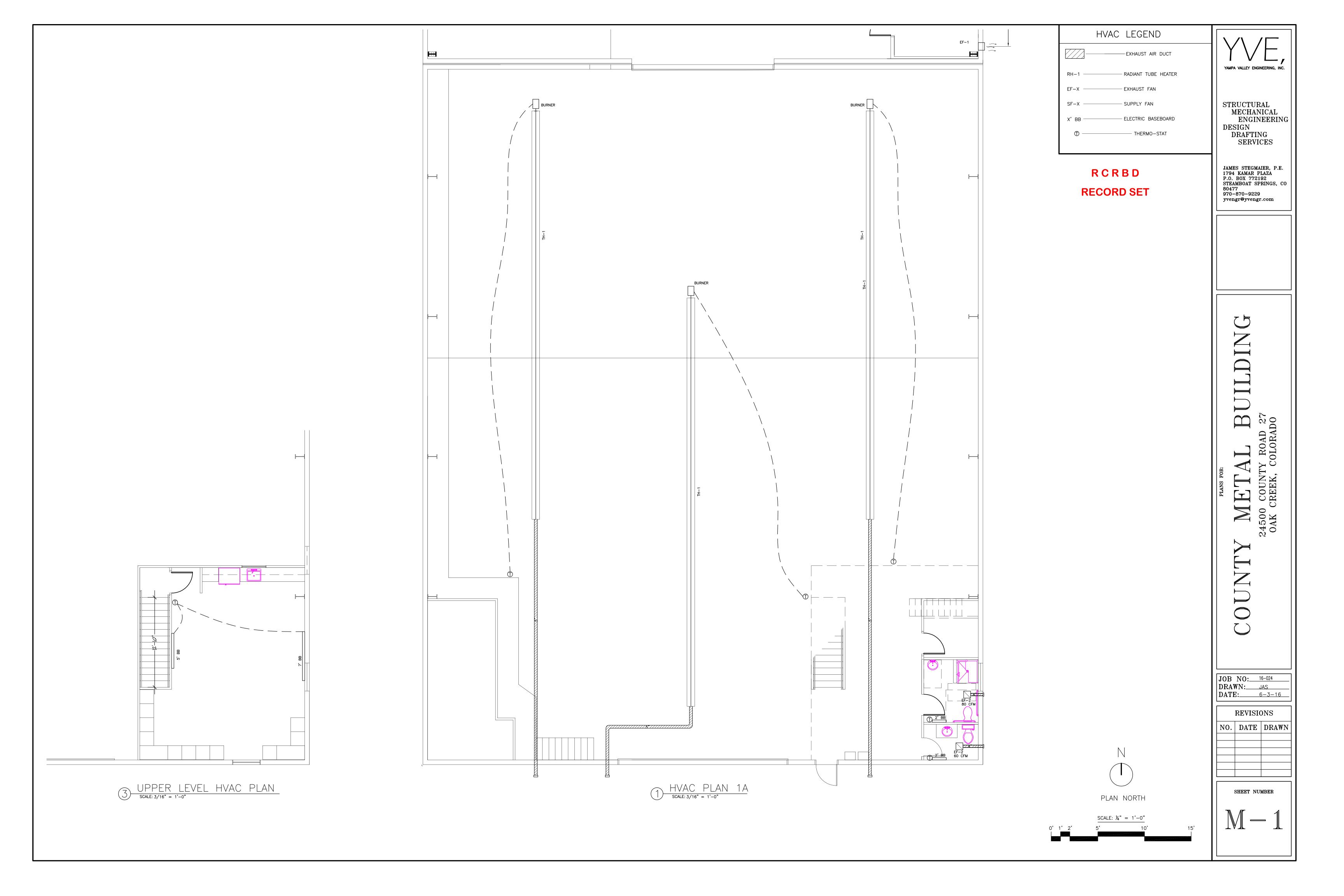
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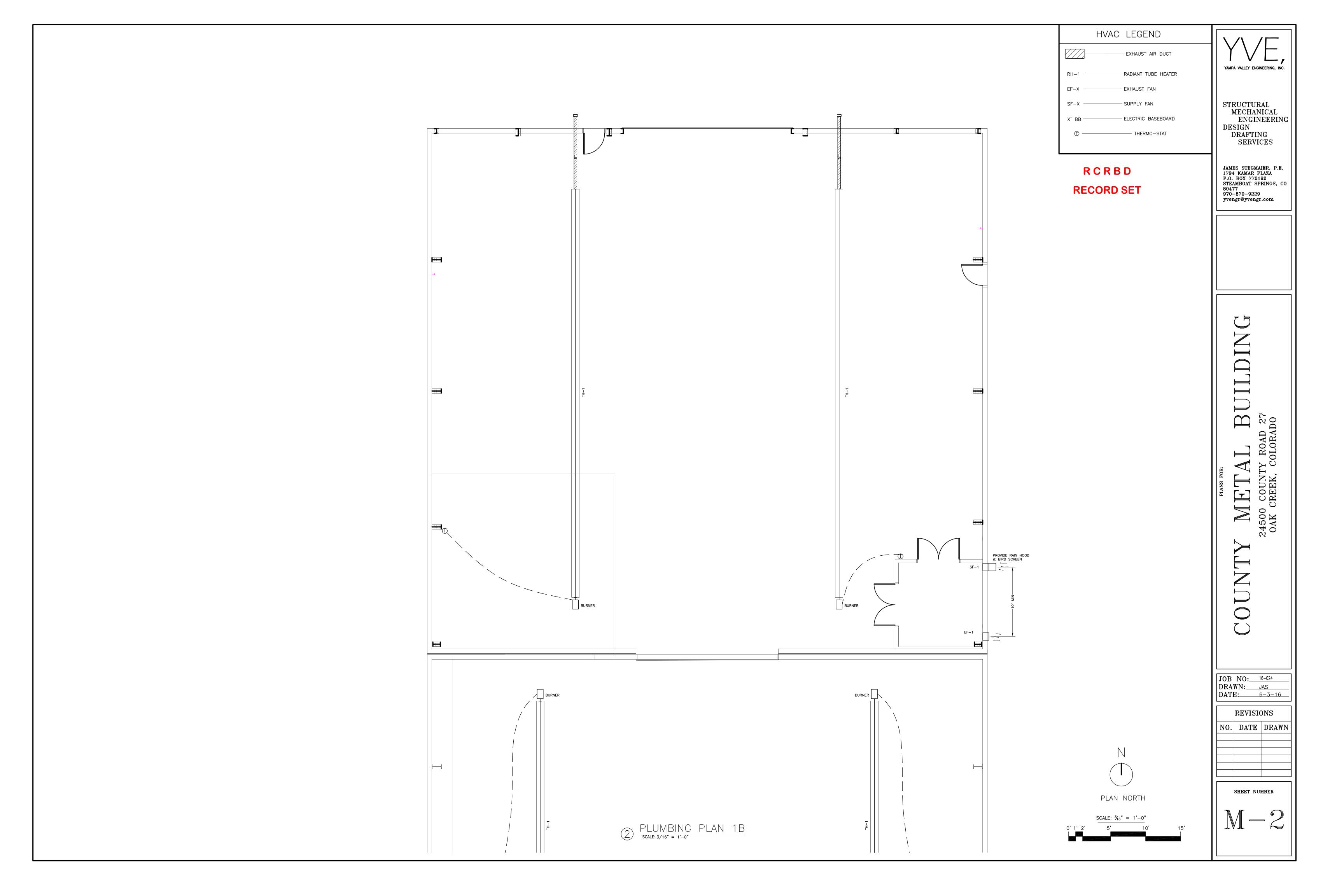
Project Name: OAK CREEK SHOP

Project Number: 201626

Sheet No.

E-200





# RCRBD **RECORD SET**

YAMPA VALLEY ENGINEERING, INC.

STRUCTURAL MECHANICAL **ENGINEERING** DESIGN DRAFTING SERVICES

JAMES STEGMAIER, P.E. 1794 KAMAR PLAZA P.O. BOX 772192 STEAMBOAT SPRINGS, CO 970-870-9229 yvengr@yvengr.com

4500 COUNTY JAK CREEK, C

JOB NO: 16-024 DRAWN: JAS **DATE:** 6–3–16

REVISIONS

NO. DATE DRAWN

SHEET NUMBER

AIR DISTRIBUTION

DESCRIPTION OF WORK

A. Mechanical contractor shall provide and install radiant tube heater system, exhaust fans, supply fan, ducts and grills, registers and diffusers as shown on the plans. Requirements for the air distribution system are as indicated herein.

MATERIALS

A. Sheet Metal: Except as otherwise indicated, fabricate ductwork from galvanized sheet steel complying with ASTM A 527, lockforming quality; with g 90 zinc coating in accordance with ASTM A 525; and mill phosphatized for exposed locations.

B. All duct dimensions shown are clear area dimensions.

MISCELLANEOUS DUCTWORK MATERIALS

A. General: Provide miscellaneous material and products of types and sizes indicated and, where not otherwise indicated, provide type and size required to comply with ductwork system requirements including proper connection of ductwork and equipment.

B. Fittings: Provide radius type fitting fabricated of multiple sections with maximum 15—degree change of direction per section. Use 45—degree laterals and elbows for branch takeoff connections.

C. Duct Liner: Fibrous glass, complying with Thermal Insulation Manufacturers Association (TIMA) AHC—101; of 1" thick. The liner shall meet the Life Safety Standards as established by NFPA 90A and 90B. The duct liner shall conform to the requirements of ASTM C 1071, with and NRC not less than .65 and a thermal conductivity no higher than .25 at 75 Degrees F mean temperature.

D. Low Pressure Flexible Ducts: Duct shall be factory pre—insulated with a solid inner liner formed by a reinforced aluminum laminate material mechanically locked or bonded together by a corrosive resistant galvanized steel helix covered with a minimum 1-1/2" thick fiberglass blanket and sheathed in a polyethylene vapor barrier.

**FABRICATION** 

A. Shop fabricates ductwork in 4, 8, 10 or 12—Ft. lengths.

B. Shop fabricates ductwork of gages and reinforcement complying with SMACNA HVAC Duct Construction Standards.

C. Fabricate duct fittings to match adjoining ducts, and to comply with duct requirements and applicable to fittings. Except as otherwise indicated, fabricate to include turning vanes

in elbows where shorter radius is necessary. Limit angular tapers to 30 degrees for contracting tapers and 20 degrees to expanding tapers.

FACTORY-FABRICATED LOW PRESSURE DUCTWORK

A. General: At installer's options, provide factory—fabricated duct and fittings, in lieu of shop—fabricated duct and fittings.

B. Material: Galvanized sheet steel complying with ASTM A 527, lock forming quality, with ASTM A 525, G90 zinc coating, mill phosphatized.

C. Gage: 28—gage minimum for round and oval ducts and fittings, 4" through 24" diameter.

D. Elbows: One piece construction for 90 degree and 45 degree elbows 14" and smaller. Provide multiple gore construction for larger diameters with standing seam circumferential joint.

EQUIPMENT INSTALLATIONS

A. The radiant tube heating system shall be installed per manufacture's requirements and recommendations.

EQUIPMENT CONNECTIONS

General: Connect metal ductwork to equipment as indicated, provide flexible connection for each ductwork connection to equipment mounted on vibration isolators, and/or equipment containing rotating machinery. Provide access doors as indicated.

GRILLS, REGISTERS AND DIFFUSERS

A. Provide grills, registers and diffusers of manufactures standard air device where shown on the mechanical plans as require for complete installation.

B. Ceiling Compatibility: Provide air devices with border styles that are compatible with adjacent ceiling or wall finish. Owner shall have approval prior to

INSTALLATION OF METAL DUCTWORK A. Assemble and install ductwork in accordance with recognized industry practices that will achieve airtight and noiseless systems, capable of performing each indicated service. Align ductwork accurately, supporting ducts rigidly and support vertical ducts at every floor.

B. Routing: Locate ductwork runs, vertically and horizontally and avoid diagonal runs whenever possible. Locate runs as indicated by diagrams, detail and notations or, if not otherwise indicated, run ductwork in shortest route, which does not obstruct usable space, or block access for servicing building and its equipment. Coordinate layout with suspended ceiling and lighting layout and similar finished work.

C. Install metal ductwork in accordance with SMACNA HVAC Duct Construction Standards.

D. Turning vanes shall be located in all 90 degrees turns and tees.

E. Use 45 degree laterals and elbows for branch takeoff connections.

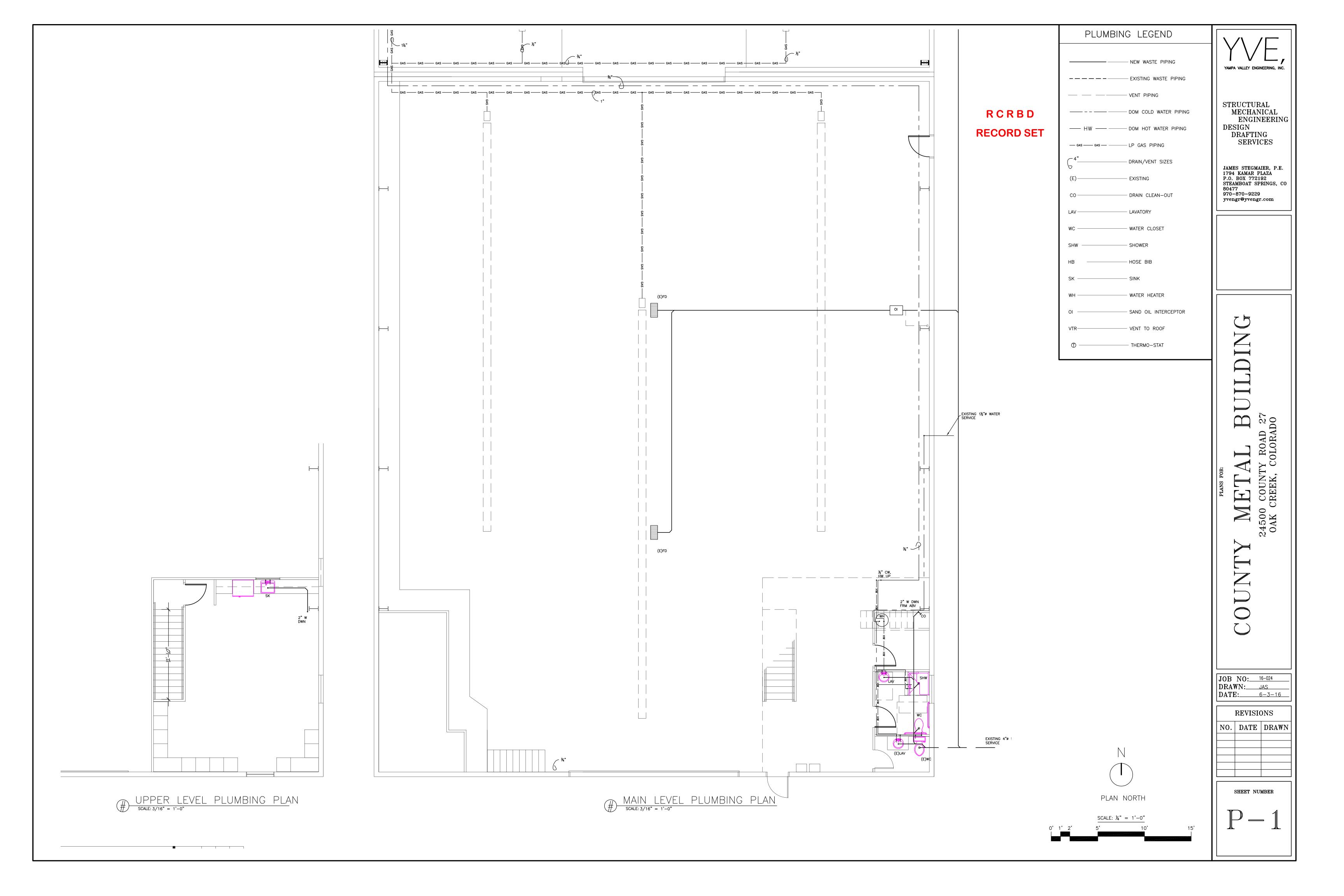
ADJUSTING AND CLEANING

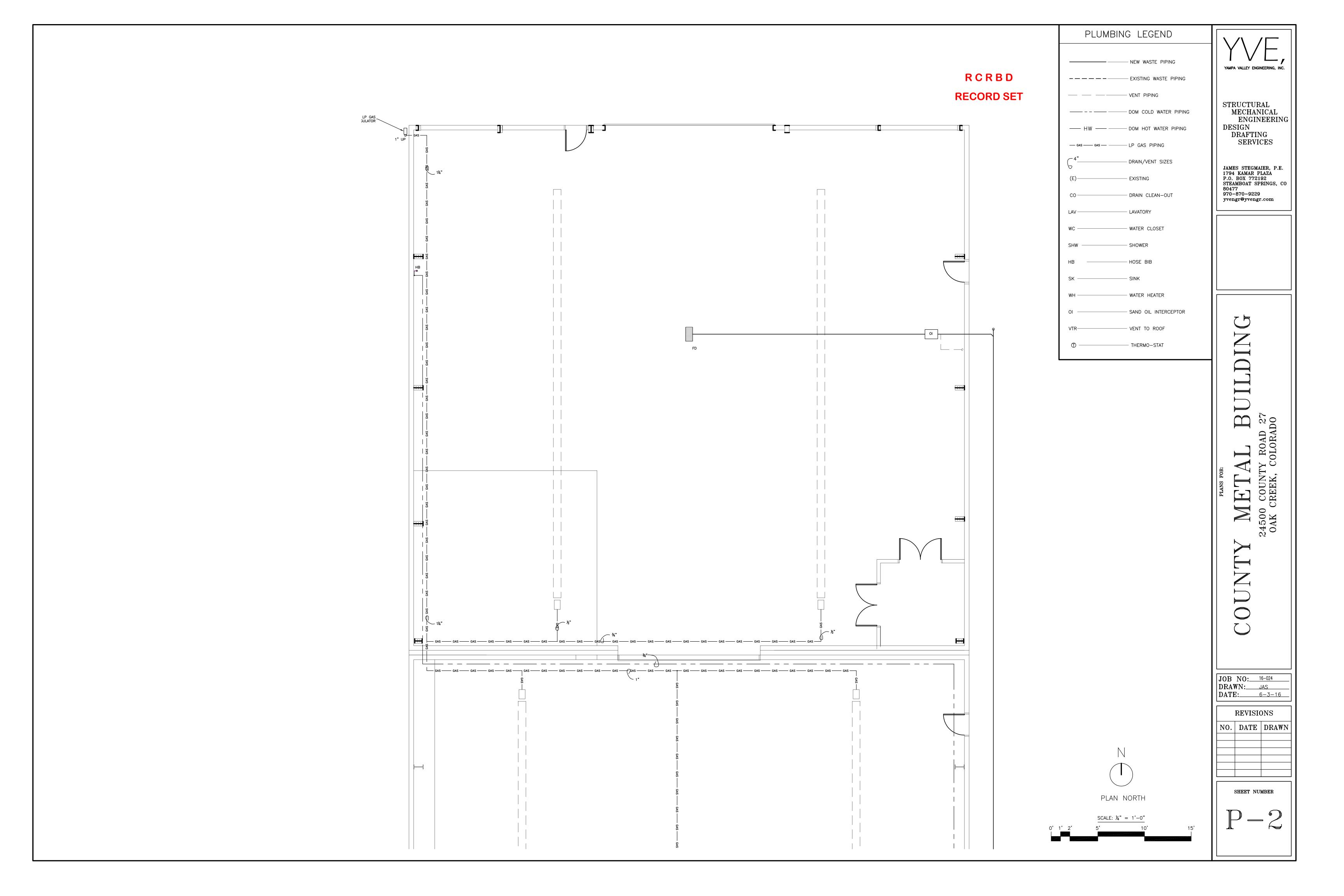
Clean duct work internally, of dust and contractor. A balance report shall be furnished to the Project Manager and the Designer.

Operate installed system to demonstrate compliance with requirements. Check for leakage while

system is operating and adjust or repair as necessary.

HVAC EQUIPMENT SCHEDULE									
MARK	MARIA DESCRIPTION MANUFACTURE & MOREL HEATING COOLING CFM						ELECTRICAL		
MARK	DESCRIPTION	MANUFACTURE & MODEL	(MBU)	(MBU) 0.0 SP (UON)	VAC	PHASE	AMPS	REMARKS	
X-BB	ELECTRIC BASEBOARD	KING ELECTRIC	250W/FT	_	_	230	1	*	*1.04 AMP PER FT
TH	RADIANT TUBE HEATER	INFRASAV IQ-155-60	150	_	_	115	1	1.0	_
EF-1	SHUTTER MOUNTED EXHAUST FAN	DAYTON 1HLA1	_	_	585	120	1	1.50	_
SF-1	SHUTTER MOUNTED SUPPLY FAN	DAYTON 1HLA1	_	_	585	120	1	1.50	-
EF-2	BATH EXHAUST FAN	PANASONIC 80 CFM	_	_	80	120	1	1.0	_





### Plumbing System

A. Plumbing contractor shall provide all labor, materials and equipment to install water, sewer piping and gas piping where indicated. All work shall be in accordance with the current IBC, IPC and all state and local codes and regulations. Only licensed plumbing contractors shall install water, sewer or gas piping.

B. All appropriate plumbing permits shall be issued prior to work commencing in those areas.

D. Coordinate work with other trades to eliminate conflicts. Verify dimensions and sizes and report errors, conflicts and inconsistencies to the Designer before starting work. Execute work in accordance with best current standard practices to contribute to the efficiency of operation, accessibility, slightliness and minimal maintenance. Conform and accommodate systems to building structure, equipment and usage so that they do not interfere with the operation of other systems or operational parts of the building.

A. Plumbing contractor shall provide a written warranty to the owner covering the entire mechanical or plumbing work to be free from defective materials, equipment and workmanship for a period of one year after Date of Acceptance.

### OPERATING AND MAINTENANCE DATA

A. Submit two (2) bound copies of the operating and maintenance manuals to the owner for review and approval. The operating instructions shall contain complete procedures for fire or failure of major equipment and procedures for normal starting, operating, shutdown and long term shutdown. The maintenance instructions shall cover all aspects for properly maintaining the equipment including cleaning, replacing and adjusting schedules.

### PIPE AND FITTINGS

A. Domestic Water: All above slab DW piping shall be Type M copper or an approved Cross—linked polyethylene (PEX) or Polyethylene (PE). All piping products shall comply with IPC Table 605.4 Water Service Distribution Piping. Joints shall be up of 95—5 tin—antimony solder metal per ASTM B 32—70, alloy Grade 95TA.

B. All below slab water piping shall be Type L soft copper. The piping shall be continuous without joints and wrapped in closed cell insulation.

### C. Drain and Waste Piping — Above and Underground

Sewer pipe shall be PVC. PVC pipe and fittings shall comply with ASTM D2665—85. PVC fittings shall correspond to pipe in material, class and ASTM designation

Joints: Solvent cement shall be as specified in ASTM D2564-80 and primer shall be as specified in ASTM F656-80.

### D. LP Gas Piping

All gas pipe shall be black steel pipe and comply with ASTM A 53-83. Ferrous metals in exposed exterior location shall be protected from corrosion with a rust inhibiting coating such as enamel paint. All joints in the piping system shall have screwed joints, having approved standard threads. Such screwed joints shall be made up with approved pipe joint material, insoluble in the presence of natural gas and applied to the male threads only. Fittings 1/2" and less shall be 300 lb. Class per ANSI B16.3. Fittings greater than 1/2" shall be 150 lb. Class per ANSI B16.3.

### MISCELLANEOUS PIPING MATERIALS/PRODUCTS

- A. Soldering Materials: Provide soldering materials as determined by installer to comply with installation requirements.
- B. Piping Connectors for Dissimilar Non—Pressure Pipe: Elastomeric annular ring insert or elastomeric flexible coupling minimizes flexible duct lengths and sharp bends.

### VALVES

A. General: Provide valves of types and pressure ratings indicated by application and comply with all state and local codes.

### HANGERS AND SUPPORTS

A. Horizontal and Vertical Piping Hangers, Clamps and Supports:

Use either factory fabricated piping hangers and supports or strapping which provides enough stability to comply with manufactures published product information and complies with the UPC and local codes. Provide copper—plated hangers and supports for copper—piping systems

### complies with the UPC and local codes. Provide copper-plated hangers and supports for copper-piping systems.

PIPE AND PIPE FITTING INSTALLATION

A. Install pipes and pipe fittings in accordance with recognized industry practices which will achieve permanently leakproof piping systems, capable of performing each indicated service without piping failure.

### DIDINO CYCTEM IOINTC

A. Thread natural gas pipe in accordance with ANSI B2.1. Cut threads full and clean using sharp dies. Ream threaded ends to remove burrs and restore full inside diameter. Apply pipe joint or pipe joint tape where recommended by pipe/fitting manufacturer.

# B. Solder copper tube—and—fitting joints where indicated, in accordance with recognized industry practice. Cut tube ends squarely, ream to full inside diameter, and clean

outside of tube ends and inside of fittings. Use only flux with no lead content.

C. DWV pipe and fittings shall be cleaned using approved primer and glued with approved glue. If outside temperatures are 30 degrees or below, cold weather glues shall be used.

D. Hydronic piping shall be installed per manufactures recommendations and requirements.

INSTALLATION OF HANGERS AND SUPPORTS

A. All suspended domestic pipe shall be suitable braced to prevent horizontal movement.

### B. Prevent electrolysis in support of copper tubing by use of hangers and supports that are copper plated, or by other recognized industry methods or by plastic coated hangers

C. All soil, waste and vent piping shall be supported from the building structure at not more than 4—Ft. intervals, at end of branches and at change of direction or elevation. PVC pipe and fittings shall be supported within one foot of each side of couplings.

### D. All gas piping shall be adequately supported per the table below:

Pipe Size (In) Maximum distance between supports (Ft) 1/2 6 3/4 - 1-1/2 8

### PIPES, PIPE FITTINGS AND ACCESSORIES

A. Potable Water Systems:1. Shut-off Valves: 2" and smaller: Ball Valves

2. Drain Valves: 2" and smaller: Ball Valves

# B. Waste and Vent System: 1. Wall Clean—outs and Floor cleanouts : PVC clean—out fitting shall be applicable to pipe size served and in compliance with the UPC.

C. Drains

Floor Drain: Floor drains shall be of standard duty for working areas.

### PLUMBING FIXTURES

A. Provide factory fabricated fixtures of type, style and material indicated. Where more than one is indicated, selection is installer's option when approved by owner. All fixtures of the type specified on the mechanical plans, unless approved by the engineer and/or owner.

### PLUMBING FITTINGS, TRIM AND ACCESSORIES A. Water Outlets: At locations where water

A. Water Outlets: At locations where water is supplied to a fixture or device, provide manual shut—off valves and connecting stem pipes to permit outlet (i.e. faucet), servicing without shut—down of water supply piping systems.

### A. Install piping level with no pitch. Keep runs as neat as possible, grouping together whenever possible. Isolators shall be used where piping runs through wood products.

INSTALLATION OF ABOVE GROUND DRAIN, WASTE & VENT

A. Provide restraints and hangers as appropriate and in accordance with UPC based upon type of pipe, fittings and joints. All soil and waste piping shall be run at a

## A. Provide restraints and hangers as appropriate and in accordance slope not less than 1/4" per foot for piping up to 4" in size.

backing in walls for hanging plumbing fixtures.

INSTALLTION OF PLUMBING FIXTURES

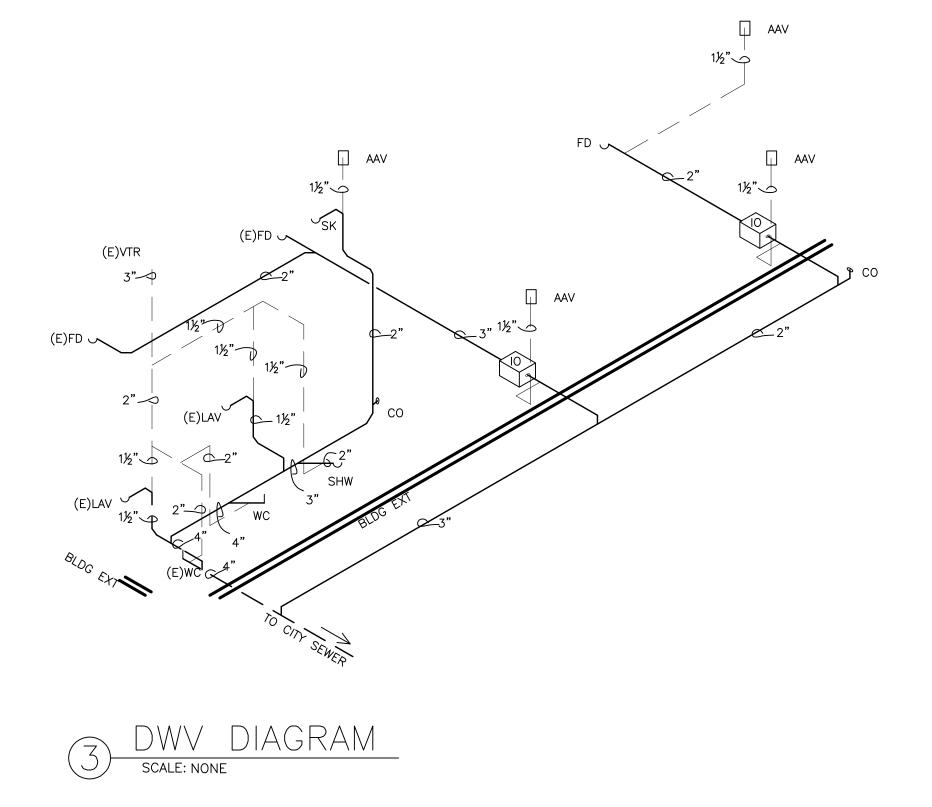
A. General: Install plumbing fixtures of types indicated where shown and in accordance with fixture manufacturer's written instructions. Secure plumbing supplies and fixtures where applicable behind or within wall construction so as to be rigid and not subject to pull or push movement. Coordinate with general contractor to obtain proper

INSTALLATION OF IP GAS PIPING

A. All exposed gas piping shall be kept at least six— (6) in. above grade or structure.

B. All gas appliances unit shall have an accessible main gas shut—off located at unit. Shut—offs shall be AGA approved gas ball valve type, Nibco or equal. Gas piping sizes indicated assume gas meter is located directly in front of building and adjacent to corresponding units.

# R C R B D RECORD SET



MARK	DESCRIPTION	MANUFACTURE & MODEL	FAUCET & ACCESSORIES	FINISH	REMARKS
WC	WATER CLOSET	KOHLER HIGHLINE K-3519	-	WHITE	_
LAV	LAVATORY	KOHLER CHESAPEAKE K-1722	KOHLER CORALAIS 15592	WHITE CP	REQUIRES WALL CARRIER
SK	SINK	OWNER	-	SS CP	-
WH	GAS WATER HEATER	BRADFORD WHITE RG2DV50S6N	-	-	50 GAL 40,000 INPUT
OI	SAND OIL INTERCEPTOR	WATTS 0I-15	_	_	_



STRUCTURAL
MECHANICAL
ENGINEERING
DESIGN
DRAFTING
SERVICES

JAMES STEGMAIER, P.E. 1794 KAMAR PLAZA P.O. BOX 772192 STEAMBOAT SPRINGS, CO 80477 970-870-9229 yvengr@yvengr.com

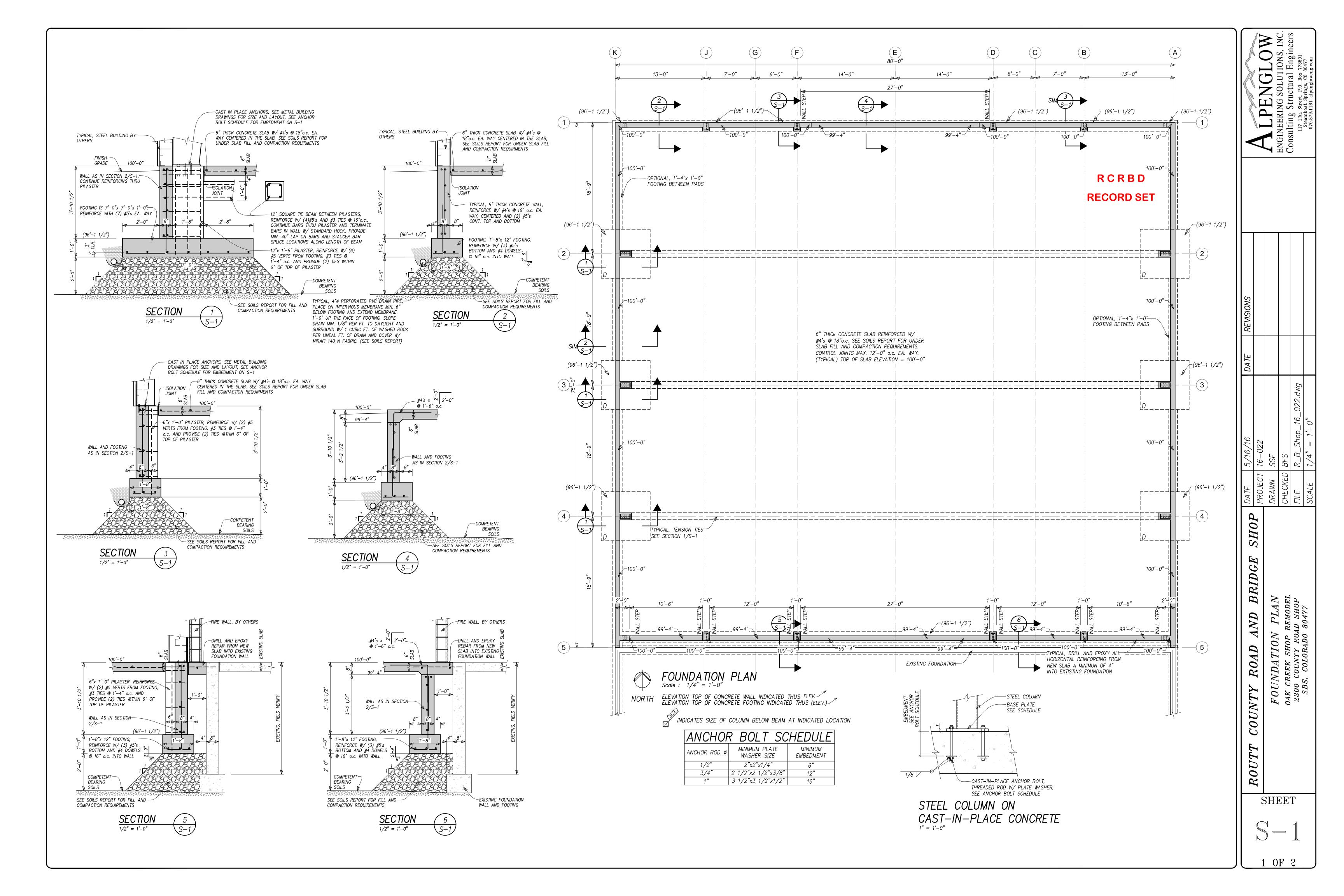
JNTY METAL BUILDING
24500 COUNTY ROAD 27
OAK CREEK, COLORADO

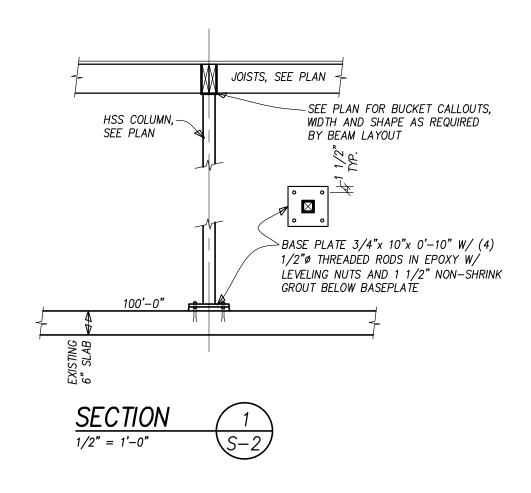
JOB NO: 16-024
DRAWN: JAS
DATE: 6-3-16

NO. DATE DRAWN

SHEET NUMBER

P-3





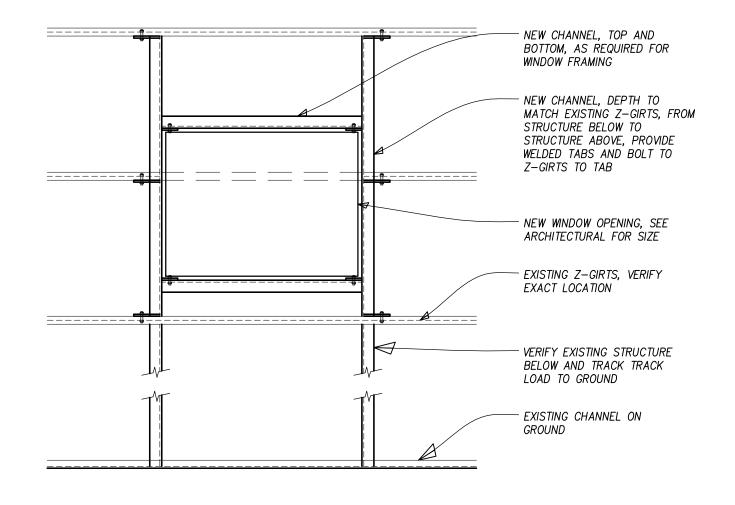


TABLE 1704.7

REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK

achieve the design bearing capacity.

reached proper material.

Verify materials below shallow foundations are adequate to

Verify excavations are extended to proper depth and have

Verify use of proper materials, densities and lift thicknesses

Prior to placement of compacted fill, observe subgrade and

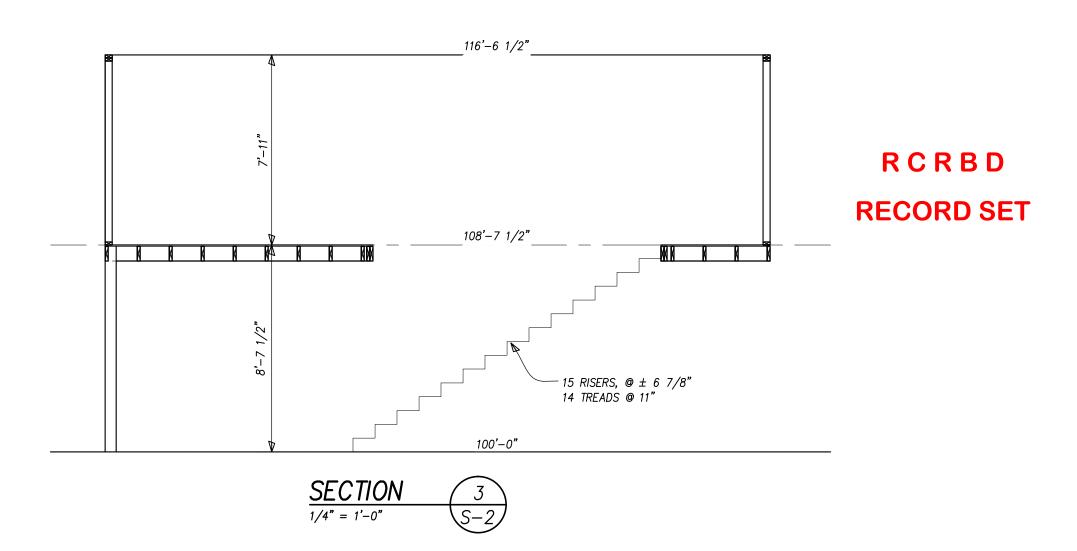
Perform classification and testing of compacted fill

during placement and compaction of compacted fill.

verify that site has been prepared properly.

CONTINUOUS DURING TASK LISTED PERIODICALLY DURING TASK LISTED





# GENERAL NOTES

### DESIGN LIVE LOADS

a. Pre-Manufactured Metal Building.... . See Olympia Steel Buildings Proj. #U1600196A d. Floors.... 125 psf

### FOUNDATION DESIGN

- a. Design of individual and continuous footings is based on a maximum allowable bearing pressure of 1500 psf dead load plus live load and 500 psf min. dead load placed on the natural undisturbed soils below frost depth as described in soils report.
- b. Soils report 16-1031 by Northwest Colorado Consultants, Inc.

### REINFORCED CONCRETE

- a. Structural concrete shall have a minimum 28 day compressive strength of 3000 psi Type I. Reinforcing bars shall conform to ASTM Specification A615—79 and shall be Grade 60.
- c. At splices, lap bars 38 diameters. At corners and intersections, make horizontal bars continuous or provide matching corner bars. Around openings in walls and slabs, provide 2-#5, extending 2'-0'' beyond edge of opening.

### EPOXY ADHESIVE ANCHORING SYSTEM

- Epoxy adhesive anchoring system shall be Hilti HIT—RE 500 or approved equal.
- b. Anchor rods shall be furnished with chamfered ends so that either end will accept a nut and washer and meet the requirements of ISO 898 Class 5.8.
- c. Anchors shall have the following minimum embedments: 3/4" $\emptyset$  6 3/4", 5/8" $\emptyset$  5 5/8", 1/2"ø - 4 1/2".

### STRUCTURAL ERECTION AND BRACING REQUIREMENTS

- a. The structural drawings illustrate the completed structure with all elements in their final positions, properly supported and braced.
- b. The Contractor, in the proper sequence, shall provide proper shoring and bracing as may be required during construction to achieve the final completed structure.

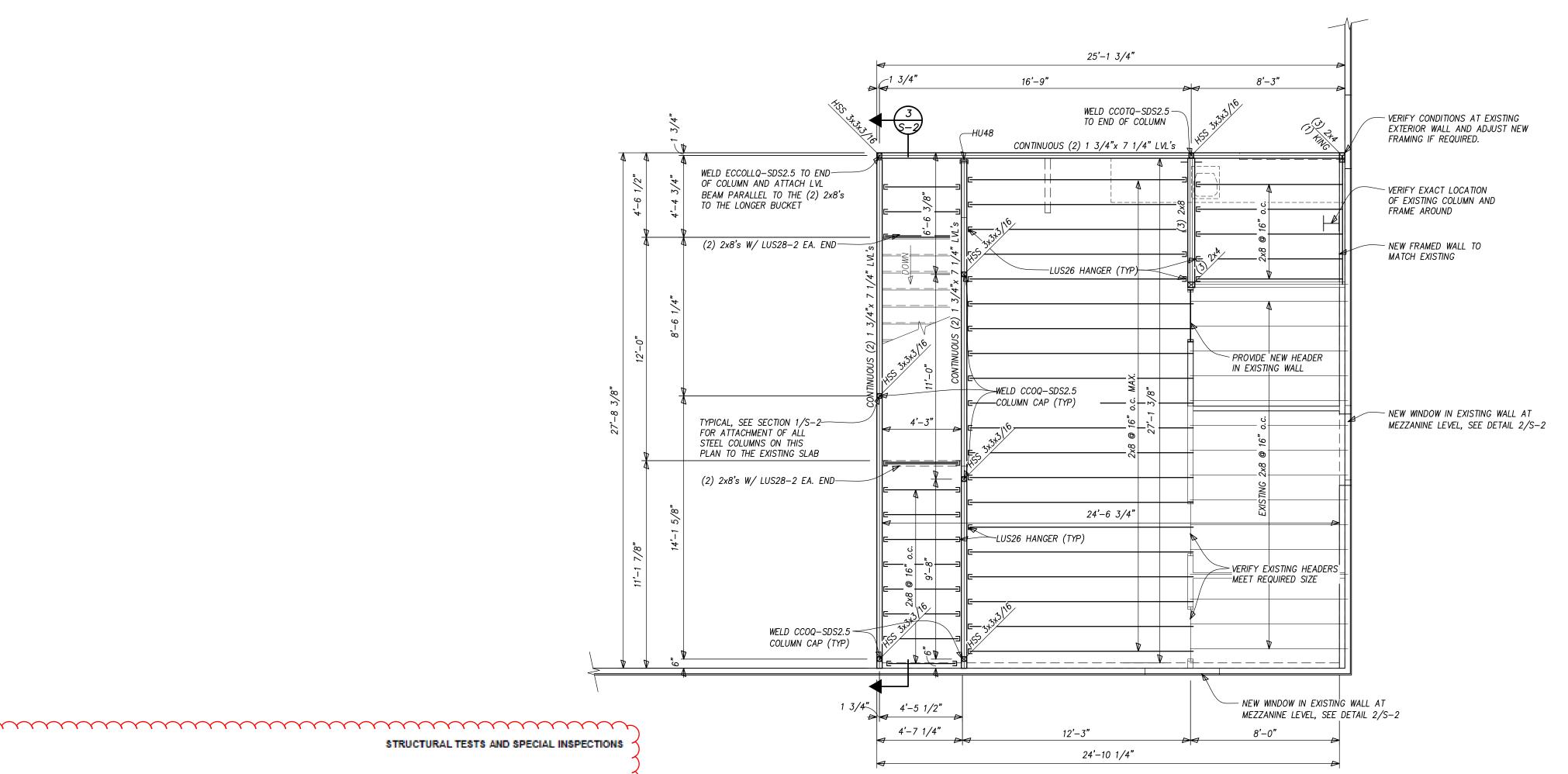
### SPECIAL INSPECTIONS

- a. All special inspections shall comply with chapter 17 of the International Building Code (IBC).
- These inspections are in addition to the inspections specified in Section 109 of the IBC. b. The Special Inspector and testing agent shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work.
- c. The Special Inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the Building Official, for inspection of the particular type of construction or operation requiring special inspection.
- d. The credentials of all inspectors, administrators and testing technicians shall be provided if
- e. The Special Inspector shall keep records of all inspections and shall furnish inspection reports
- to the Building Official and the Registered Design Professional in Responsible Charge. f. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible
- The Special Inspection program does not relieve the Contractor of his or her responsibilities. h. A Final Report of Special Inspections documenting completion of all required Special
- Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy. i. Job site safety and means and methods of construction are solely the responsibility of the
- The Special Inspection program does not relieve the Contractor or any other entity of any
- contractual duties, including quality control, quality assurance, or safety. k. The Contractor is solely responsible for construction means, methods, and job site safety. I. Special inspection is required for the off site fabrication of structural steel load—bearing members and assemblies unless the work is done on the premises of a fabricator registered

and approved to perform such work without special inspection.

m. In addition to special inspections required by chapter 17 of the IBC and those required by the Building Official the following site specific inspections are required: 1. Installation and tightening of high strength bolts.

NOTE THAT THIS IS WHAT CODE REQUIREMENTS THAT SHALL BE MET SAYS FOR SOIL, SEE SIMILAR REQUIREMENTS FOR INSPECTION OF STEEL CONSTRUCTION.



MEZZANINE FRAMING PLAN

EXTERIOR WALLS ARE OF AN EXISTING METAL BUILDING. VERIFY EXACT

FRAMED INTERIOR BEARING WALLS ARE TO BE 2x4 @ 16" o.c. W/ 7/16"

TYPICAL ALL BEAMS TO BE FLUSH FRAMED TO MATCH EXISTING SHEATHING ELEVATION

TYPICAL AT FLOOR, 3/4" APA RATED, EXPOSURE 1, SHEATHING TOP OF SHEATHING ELEVATION TO MATCH EXISTING DIMENSIONS AND FRAMING AT TIME OF CONSTRUCTION. APA RATED SHEATHING TO MATCH EXISTING TYPICAL HEADER THIS PLAN, (2) 2x6's W/ (1) 2x4 TRIMMER AND (1) 2x4 KING STUD EACH END UNLESS NOTED OTHERWISE

INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

SHEET 2 OF 2

HOP

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BRIDG

COUNTY

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