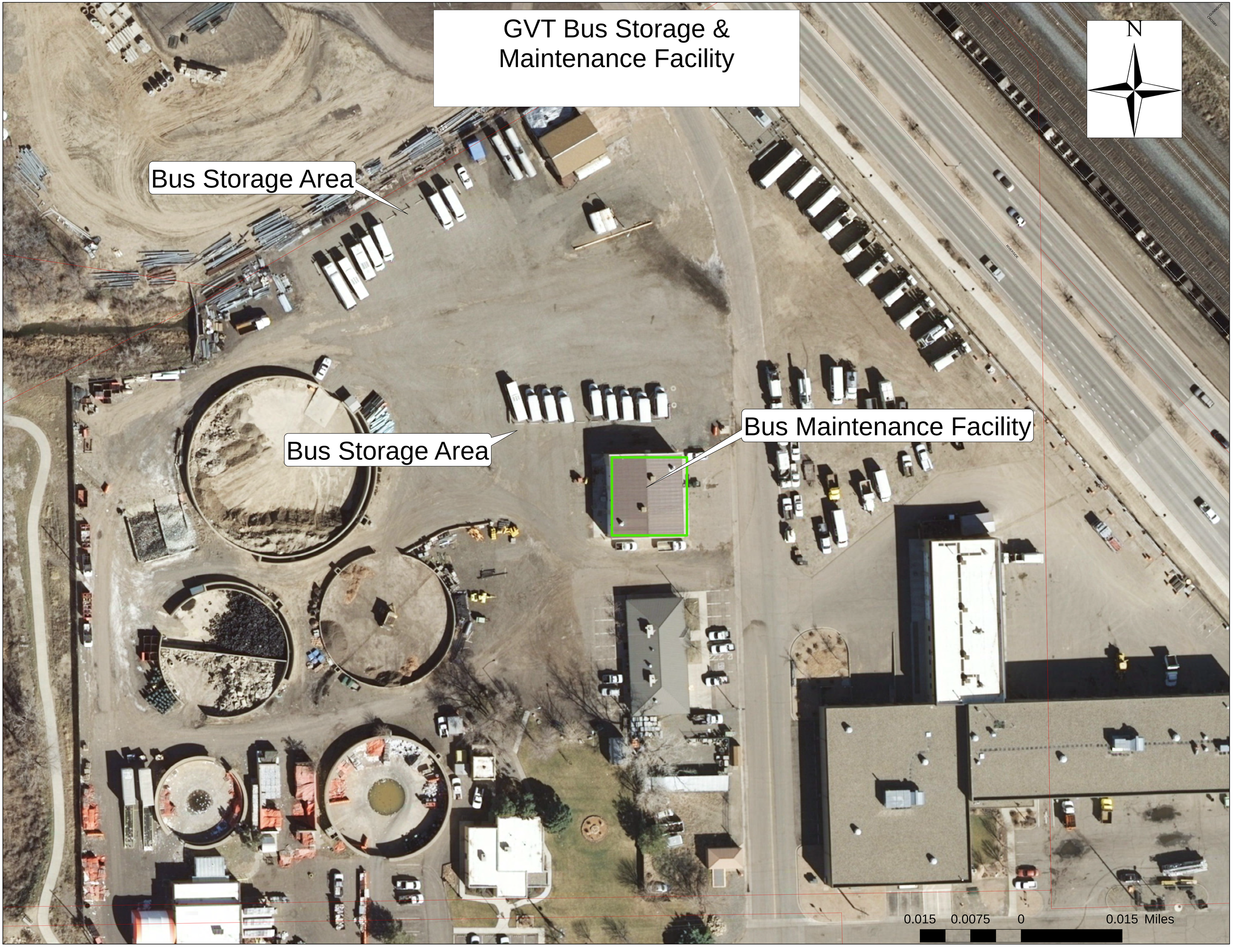
GVT Bus Storage & Maintenance Facility



GVT Maintenance Facility (Exterior & Interior Pictures)


I


70
72


CAUTION

SHEET SCHEDULE

ARCHITECTURAL

A1.0	FLOOR PLAN–LEGENDS
A2.0	CEILING PLAN
A2.1	ROOF PLAN
A3.0	BUILDING ELEVATIONS

CIVIL

C1.1	SITE PLAN

STRUCTURAL

S1	FOUNDATION PLAN
S2	DETAILS

PLUMBING

P1–1	PLUMBING PLAN
P3–1	PLUMBING DETAILS

MECHANICAL

M1–1	MECHANICAL PLANS
M3–1	MECHANICAL DETAILS
ME1–1	MECHANICAL EXISTING PLAN

ELECTRICAL

E1–1	ROOF PLAN
E2–1	BUILDING ELEVATIONS
E2–2	ADDITION FLOOR PLAN
ED2.1	ELECTRICAL DEMOLITION PLAN

PRE–ENGINEERED BUILDING SHOP DRAWINGS INCLUDED FOR REFERENCE

As-Builts

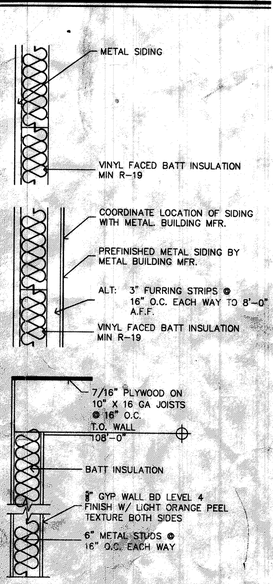
LEGEND

- W2 — WALL TYPE SYMBOL
- GARAGE — ROOM NAME
- 651 Ft CO — FLOOR FINISH; SQUARE FTG OF INDIVIDUAL ROOM
- 100 — DOOR CALLOUT NUMBER
- A — ALUMINUM STOREFRONT CALLOUT SYMBOL

FLOOR CALLOUT FINISHES:

- CO — SEALED AND FINISHED 6" CONCRETE SLAB
- VCT — VINYL COMPOSITE TILE

WALL TYPE LEGEND



WINDOW SCHEDULE

	SIZE	NOTES:
A	4'0 X 4'0 – FIXED	MANF: EFCO SERIES 8750 THERMAL F–AW90 GLAZING: LOW E COATING, COLOR TO BE BRONZE ALUM: BRONZE BAKED ENAMEL FINISH SILL HT: 6'–0" A.F.F.

DOOR SCHEDULE

DOOR	ROOM	SIZE	FRAME:	DOOR SLAB:	NOTES:
100	ENTRY	3'0 X 7'0	HM	HM	RE: RFP–3410–12–DH FOR ALL HARDWARE, DOOR AND FRAME REQUIREMENTS
101	RESTROOM	3'0 X 7'0	HM	HM	
102	MECH	3'0 X 7'0	HM	HM	
103A	BAY 3	16'0" X 16'0" OHD	MANF	MANF R–14 INSUL	RE: RFP–3410–12–DH FOR ALL HARDWARE, DOOR AND FRAME REQUIREMENTS
103B	BAY 3	16'0" X 16'0" OHD	MANF	MANF R–14 INSUL	
104A	BAY 2	16'0" X 16'0" OHD	MANF	MANF R–14 INSUL	
104B	BAY 2	16'0" X 16'0" OHD	MANF	MANF R–14 INSUL	
105A	BAY 1	16'0" X 16'0" OHD	MANF	MANF R–14 INSUL	
105B	BAY 1	16'0" X 16'0" OHD	MANF	MANF R–14 INSUL	

FCI Constructors, Inc.

Request for Information 003

Detailed, RFIs Grouped by RFI Number with Cost

CNG Maintenance Building 333 West Avenue, Grand Junction, CO	Project # 10-12-016 Tel: tbd Fax: tbd	FCI Constructors, Inc. - GJ	
RFI #: 003		Date Created: 8/13/2012	
Answer Company	**Answered By**	**Author Company**	**Authored By**
FCI Constructors, Inc. - GJ P. O. Box 1767 Grand Junction, CO 81502	Justin Mendenhall Fax: 970-434-7583	FCI Constructors, Inc. - GJ P. O. Box 1767 Grand Junction, CO 81502	Justin Mendenhall
Co-Respondent		**Author RFI Number**	
Subject	**Discipline**	**Category**	
Phone & IT Conduit Locations	Architectural/Electrical	Clarification	
Company Name	**Contact Name**	**Telephone Number**	**Fax Number**
Magnum Electric Co, Inc.	Jeff Anderson	970-243-6655	970-243-1458
Cost Impact	**Drawing Impact**		**Schedule Impact**
No	Yes		No
Question			Date Required: 8/20/2012

Reference Drawing(s): A1.0

As discussed on site during the 8.7.2012 OC Meeting, shift the (3) 4" future IT conduits East so that they are 13' from the North/East building corner. 2" conduit for phone service will not be ran under ground, conduit is to be ran overhead.

Suggestion

Answer — Date Answered: 8/13/2012

This is for documentation only, no response is required.

1 A1.0 FLOOR PLAN 1/4" = 1'–0"

FLEET SERVICES
MAINTENANCE BUILDING & RETRO-FIT
RFP-3410-12-DH

FCI Constructors, Inc.

• Architecture
• Engineering
• Project Management
• Interiors

BLYTHE GROUP co.
The Art & Science of Construction
618 Rood Avenue
Grand Junction, CO 81501
office 970.241.1010
www.theblythegroup.com

Phase	Date
PERMIT	7/10/12
△	
△	
△	
△	

Project No.	Drawn by:
10-12-CC7	KB

FLOOR PLAN

A1.0

LIGHT FIXTURE SCHEDULE

TYPE	SIZE	NOTES:
A	2'X4' HIGH BAY FIXTURE	(6) F32T/8XX/XL/HL LAMPS (2) 3L-HP-HE-IS BALLASTS NON SHATTER PROTECTIVE LENSES
B	6"X4'0 RECESSED FLOURESCENT FIXTURE	STANDARD BALLASTS AND LAMPS
C	6"X4'0 SURFACE MOUNT FLOURESCENT FIXTURE	STANDARD BALLASTS AND LAMPS
D	100W METAL HALIDE LAMP	EXT WALL PACK LIGHTING WITH PHOTOCELL

1 A2.0 REFLECTED CEILING PLAN
1/4" = 1'-0"
NORTH

FCI Constructors, Inc.

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The Art & Science of Construction
618 East Avenue
Grand Junction, CO 81501
office: 970.243.1058
www.theblythegroup.com

Phase	Date
PERMIT	7-12-2012
△	
△	
△	
△	
Project No. 10-12-007	Drawn by: KB

CEILING PLAN

A2.0

1 A2.1 ROOF PLAN
1/4" = 1'-0"

NORTH

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BLYTHE GROUP, LLC.

The Art & Science of Construction

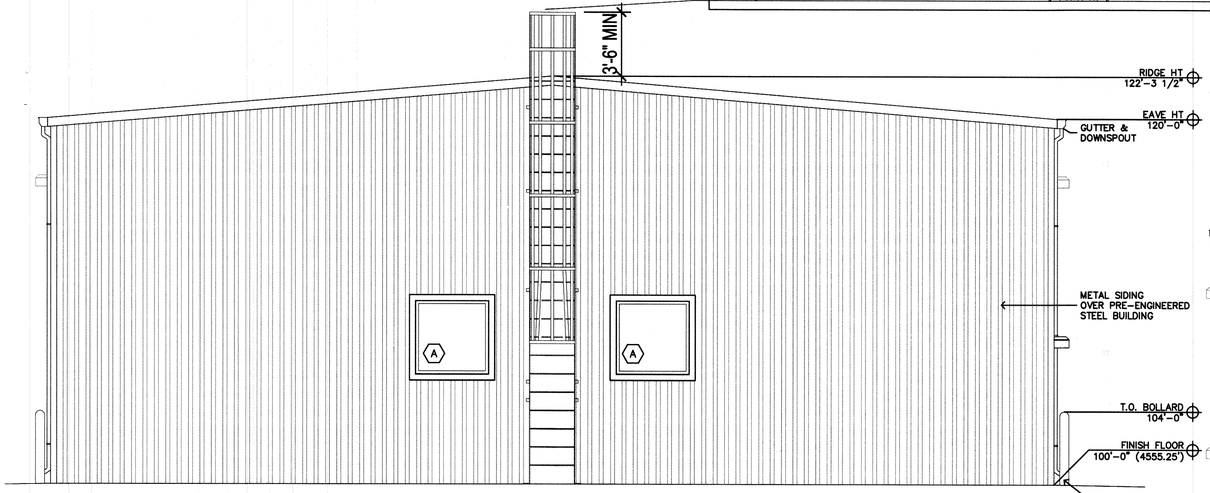
418 Rood Avenue
Grand Junction, CO 81501
office: 970.243.1058
www.theblythegroup.com

Phase	Date
PERMIT	7-10-2012
△	
△	
△	
△	
Project No. 10-12-007	Drawn by: KB

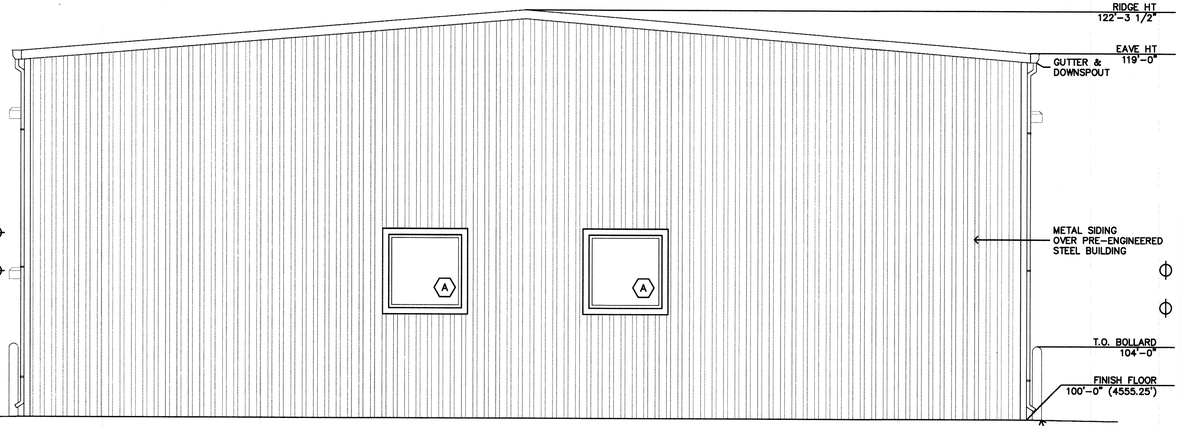
ROOF PLAN

A2.1

1 A3.0 EAST ELEVATION
1/4" = 1'-0"



2 A3.0 NORTH ELEVATION
1/4" = 1'-0"



3 A3.0 SOUTH ELEVATION
1/4" = 1'-0"

4 A3.0 WEST ELEVATION
1/4" = 1'-0"

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RFP-3410-12-DH

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Grand Junction, CO 81501
office 970.242.1058
www.theblythegroup.com

Phase	Date
PERMIT	2-9-12
△	
△	
△	
△	
Project No. 10-12-007	Drawn by: KB

BUILDING ELEVATIONS

A3.0

CONSTRUCTION NOTES

(3) 202 – REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V–PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS.

(300) INSTALL SAND/OIL SEPARATOR

(333) 102.9/108.2 – 4" SEWER SERVICE PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL, BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.

(637) 608.06 – CONCRETE SLAB (6" THICK)

(668) 304 – AGGREGATE BASE COURSE (CLASS 6)

54" STORM DRAIN

NEW POWER LINE. TIE INTO EXISTING TRANSFORMER ON NORTH SIDE OF PROPERTY.

NEW GAS LINE. TIE INTO EXISTING LINE SOUTH OF TRAFFIC BUILDING.

STORM DRAIN STRUCTURES

DOWNSPOUT

WATER SERVICE

10' CONCRETE APPROACH SLAB

66'

FF = 4555.25

1 – 2" PHONE CONDUIT, ROUTE CONDUIT IN CEILING SPACE IN BUILDINGS

50.33'

CHIPSEAL SURFACE

TRAFFIC BUILDING

ASPHALT PARKING

CONC DRIVEWAY

GRAVEL ENTRANCE

PREVIOUSLY APPROVED BUILDING SITE

CP /PK TRAFFIC BLD/
N 37130.7757
E 86640.01
EL 4554.14

CONCRETE ENTRANCE RAMP

8'X10' SHED SITS ON CONC SLAB

15" CONC WALL

16" CONC WALL

STEEL RAIL FENCE

25' OPENING

6" CONC WALL

FF EL = 4555.19

24"RCP

3-12"TREES

14"TREE

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

DRAWN BY JAH DATE 01/04/2012
DESIGNED BY JAH/SBG DATE 01/04/2012
CHECKED BY DATE
APPROVED BY DATE

SCALE: HORIZONTAL 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS AND PLANNING ENGINEERING DIVISION

CITY OF GRAND JUNCTION
CNG FLEET MAINTENANCE BUILDING ADDITION
SITE PLAN

C1–1

GENERAL NOTES

1. WORK SHALL COMPLY WITH THE 2012 INTERNATIONAL BUILDING CODE (IBC) AND ANY APPLICABLE STATE AND LOCAL ORDINANCES, EXCEPT WHERE OTHER NOTES ARE MORE RESTRICTIVE.

2. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ANY JOB SITE VISIT BY THE ENGINEER IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.

3. DESIGN CRITERIA

ROOF	30 PSF SNOW LOAD		
WIND	SPEED 90 MPH	EXPOSURE C	I=1.0
SEISMIC	DESIGN CATEGORY C	SITE CLASS D	I=1.0

4. THE SOILS REPORT WAS PREPARED BY HUDDLESTON BERRY ENGINEERING & TESTING, PROJECT NO. 00214-0017, DATED 06/21/12 WITH AN ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF ON 30" OF STRUCTURAL FILL.

5. FOUNDATION ENGINEERING DESIGN IS BASED ON DRAWINGS BY RIGID GLOBAL BUILDINGS, PROJECT NO. 96730, DATED JUNE 20 2012.

6. VERIFY DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS WITH THOSE SHOWN ON ARCHITECTURAL DRAWINGS AND METAL BUILDING DRAWINGS. PRIOR TO CONSTRUCTION, NOTIFY THE ARCHITECT AND ENGINEER OF DISCREPANCIES REQUIRING CLARIFICATION OR REVISIONS.

7. TYPICAL DETAILS AND NOTES SHOWN ON DRAWINGS MAY NOT BE INDICATED ON THE PLANS BUT SHALL APPLY UNLESS NOTED OTHERWISE.

8. SUBSTITUTIONS TO STRUCTURAL ELEMENTS TO BE APPROVED BY ENGINEER.

9. VERIFY ALL OPENINGS IN FLOORS, ROOF AND WALLS WITH MECHANICAL AND ELECTRICAL REQUIREMENTS.

10. EXISTING CONDITIONS INDICATED AS (E) OR VERIFY IN FIELD (VIF) REQUIRE THAT THE CONTRACTOR EITHER VERIFY THE PRESENCE OF SUCH CONDITIONS OR NOTIFY THE ARCHITECT/ENGINEER OF CONFLICTING CONDITIONS.

11. OWNER AND CONTRACTOR SHALL IMMEDIATELY CONSULT WITH THE ARCHITECT OR ENGINEER WHERE VISUAL OBSERVATION OR DEMOLITION EXPOSES EXISTING CONDITIONS WHICH CONFLICT WITH THE DOCUMENTS OR REVEAL DAMAGED OR DETERIORATED ELEMENTS THAT ARE INTENDED TO REMAIN AS PART OF THE FINISHED PRODUCT.

FOUNDATIONS

1. FOOTINGS AND SLABS SHALL BEAR ON 30" OF COMPACTED STRUCTURAL FILL AS APPROVED BY THE GEOTECHNICAL ENGINEER. REFER TO THE GEOTECHNICAL REPORT FOR SOIL CONDITIONS AND RECOMMENDATIONS. GEOTECHNICAL ENGINEER SHALL EXAMINE THE OPEN EXCAVATION TO VERIFY SOIL CONDITIONS AND BEARING PRESSURE PRIOR TO CONSTRUCTION.

2. FOOTINGS SHALL HAVE A MINIMUM OF 18" EMBEDMENT FOR FROST PROTECTION.

3. CONTRACTOR IS TO LOCATE CRACK CONTROL JOINTS IN SLABS. SAW CUT JOINTS ARE TO BE MADE AS SOON AS CONCRETE SET WILL ALLOW. SLAB CONTROL JOINTS SHALL BE SPACED PER ACI RECOMMENDATIONS AND NOT MORE THAN 12' IN EACH DIRECTION.

4. CONCRETE FORM WORK SHALL BE ADEQUATELY TIED TOGETHER AND BRACED TO FORM TRUE LINES, SQUARE CORNERS, AND PLUMB WALLS. ALL EXCAVATIONS SHALL BE CLEANED OF DEBRIS. WATER AND LOOSE SOIL SHALL BE REMOVED PRIOR TO PLACING CONCRETE.

CONCRETE

1. CAST IN PLACE CONCRETE SHALL BE NORMAL WEIGHT MIX AND DEVELOP MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. TYPE V OR MODIFIED I-II SULFATE RESISTANT CEMENT AND A MAXIMUM WATER/CEMENT RATIO OF 0.45 SHALL BE USED. CONCRETE QUALITY, MIXING AND PLACING SHALL CONFORM TO ACI 318 AND IBC SECTION 1905.

2. CAST IN PLACE CONCRETE SHALL BE PLACED CONTINUOUSLY, WITH NO COLD JOINTS UNLESS INDICATED IN THE DRAWINGS. MATERIAL SHALL BE ADEQUATELY VIBRATED TO PREVENT THE OCCURRENCE OF AIR POCKETS AND HONEYCOMB EFFECTS. ROCK POCKETS AND VOIDS SHALL BE REPAIRED.

3. NO CONCRETE SHALL BE PLACED SUBJECT TO FREEZING CONDITIONS OR ON FROZEN GROUND.

REINFORCING

1. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60. REINFORCING STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.

2. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES."

3. ALL REINFORCING BARS SHALL BE AS LONG AS PRACTICAL AND ALL BENDS SHALL BE COLD BENT. SECURELY TIE REINFORCING BARS AT EACH END AT CORNERS AND INTERSECTIONS. BARS SHALL BE SUPPORTED ON ACCEPTABLE CHAIRS OR HUNG FROM FORMS.

4. MINIMUM CONCRETE COVER REQUIREMENTS FOR REINFORCING STEEL, UNO:
   - 3" WHEN CAST AGAINST AND EXPOSED TO EARTH
   - 2" WHEN FORMED AND EXPOSED TO EARTH OR WEATHER
   - 3/4" WHEN NOT EXPOSED TO WEATHER OR GROUND

METAL BUILDING NOTES

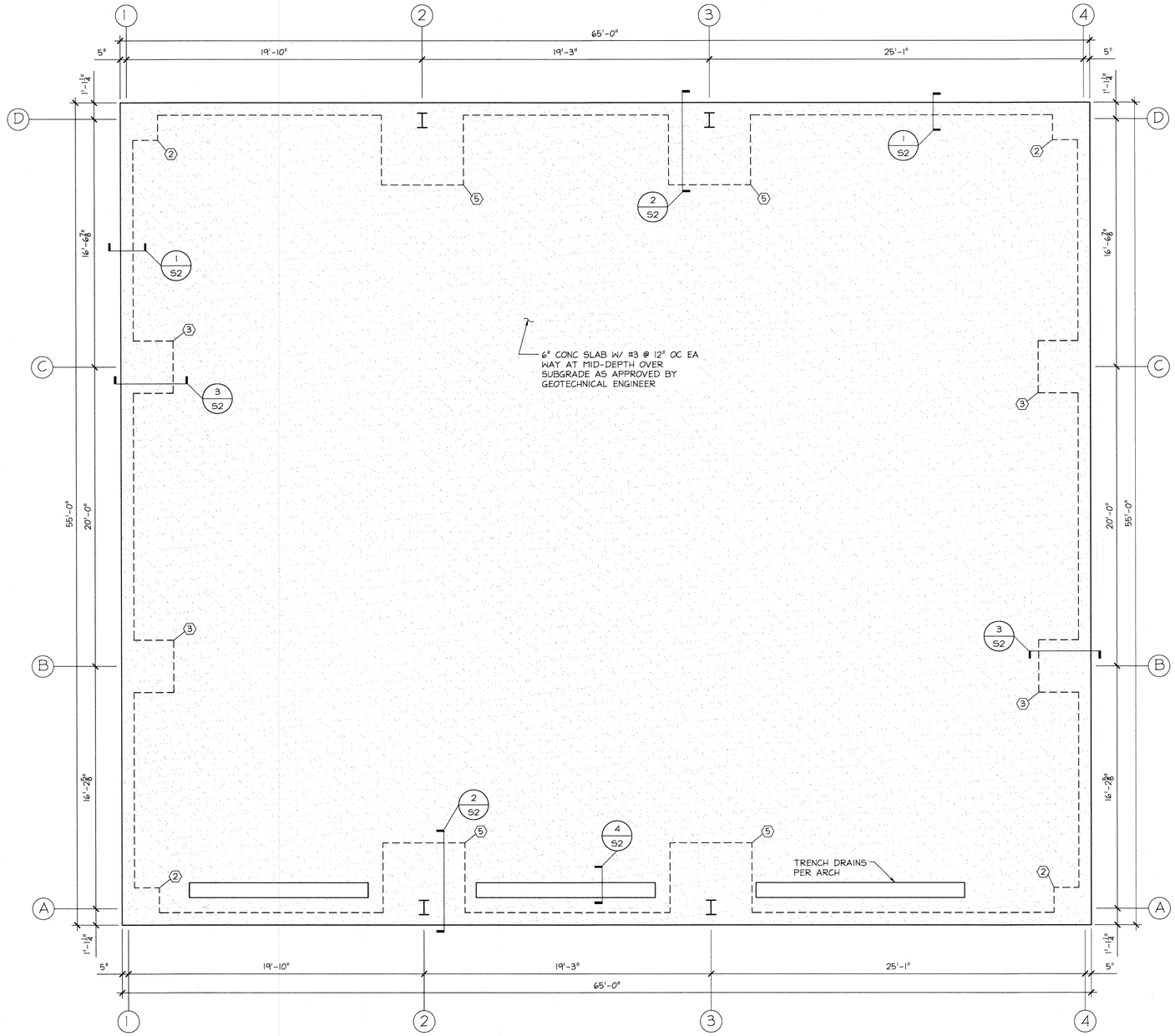
1. METAL BUILDING FOUNDATION ENGINEERING DESIGN IS BASED ON LOADS PROVIDED IN THE METAL BUILDING DRAWINGS BY RIGID GLOBAL BUILDINGS, PROJECT NO. 96730, DATED JUNE 20 2012 FOR CITY OF GRAND JUNCTION FLEET SERVICES.

2. ALL ANCHOR BOLTS SHALL BE ASTM A307 WITH 12" MINIMUM EMBEDMENT INTO CONCRETE. REFER TO METAL BUILDING DRAWINGS FOR ANCHOR BOLT DIAMETER, PROJECTION, SPACING AND EDGE DISTANCE REQUIREMENTS.

3. SEE METAL BUILDING DRAWINGS FOR BOLTING, WELDING OR OTHER SPECIAL INSPECTION REQUIREMENTS.

FOOTING SCHEDULE

MARK	CONCRETE PAD SIZE	DEPTH	REINFORCING
⟨1⟩	2'-0"x2'-0"	-	(2) #4 EA WAY
⟨2⟩	2'-6"x2-6"	-	(3) #4 EA WAY
⟨3⟩	3'-6"x3'-6"	-	(4) #5 EA WAY
⟨4⟩	4'-6"x4'-6"	-	(5) #5 EA WAY
⟨5⟩	5'-6"x5'-6"	-	(6) #5 EA WAY



FOUNDATION PLAN
1/4" = 1'-0"

NORTH

ARCHES ENGINEERING
P.O.Box 5852
Grand Junction, CO 81502
(970) 255-6788
mail@archesengineering.com

COLORADO LICENSED
KEITH MILLER
39138
PROFESSIONAL ENGINEER

for:
BLYTHE GROUP + CO
FCI CONSTRUCTION, INC

project:
CITY OF GRAND JUNCTION
FLEET SERVICES
MAINTENANCE BUILDING
333 WEST AVENUE
GRAND JUNCTION, COLORADO

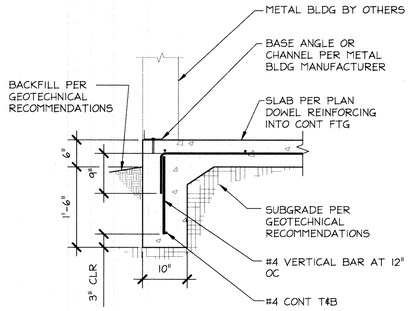
sheet title:
GENERAL NOTES
TYPICAL DETAILS

revisions:

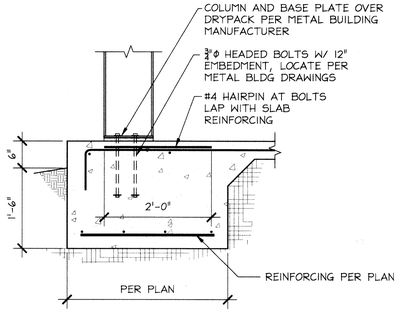
date:
07/10/12

job no:
11060

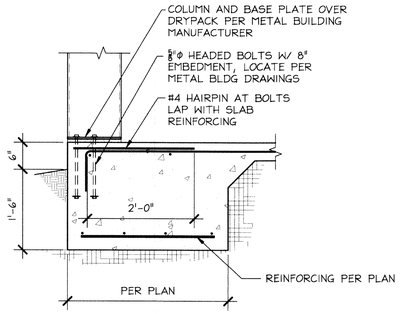
sheet no:
S1



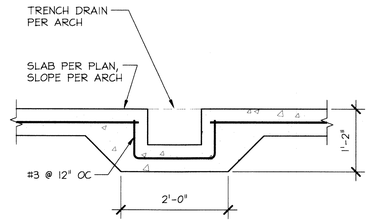
1 TYPICAL PERIMETER
3/4" = 1'-0"



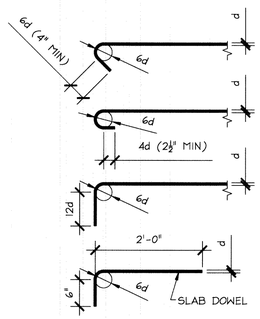
2 MAIN FRAME PAD
3/4" = 1'-0"



3 END WALL FOOTINGS
3/4" = 1'-0"

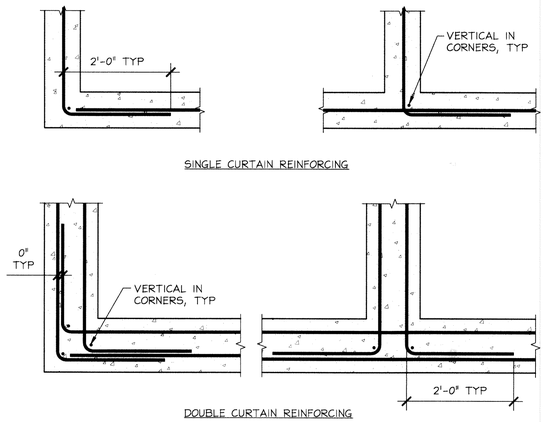


4 TRENCH DRAINS
3/4" = 1'-0"

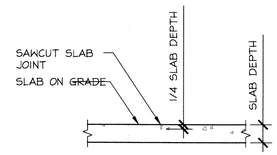


#3 THROUGH #8 BARS

5 REBAR BENDS
3/4" = 1'-0"



6 CORNER REINFORCING
3/4" = 1'-0"



SAWCUT JOINTS TO BE MADE WITHIN 12 HOURS OF SLAB PLACEMENT AND FILLED WITH SEALANT

PLASTIC "QUICK JOINT" OR EQUAL MAY BE USED IN PLACE OF SAWCUT

7 SLAB JOINTS
3/4" = 1'-0"

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COLORADO LICENSED
KEITH WELSER
39138
PROFESSIONAL ENGINEER

for:
BLYTHE GROUP + CO
FCI CONSTRUCTION, INC

project:
CITY OF GRAND JUNCTION
FLEET SERVICES
MAINTENANCE BUILDING
333 WEST AVENUE
GRAND JUNCTION, COLORADO

sheet title:
DETAILS

revisions:

date:
07/10/12

job no:
11060

sheet no:
S2

FCI Constructors, Inc.

Request for Information 002

Detailed, RFIs Grouped by RFI Number with Cost

CNG Maintenance Building 333 West Avenue, Grand Junction, CO	**Project # 10-12-016** Tel: tbd Fax: tbd	**FCI Constructors, Inc. - GJ**

RFI #: 002 — **Date Created: 7/24/2012**

Answer Company	Answered By	Author Company	Authored By
City of Grand Junction 250 North 5th Street Grand Junction, CO 81501	Bret Guillory **Fax:** 970-256-4022	FCI Constructors, Inc. - GJ P. O. Box 1767 Grand Junction, CO 81502	Justin Mendenhall

Co-Respondent — **Author RFI Number**

Subject	Discipline	Category
3/4" Compressed Air Distribution Lines	Architectural/Plumbing	Clarification

Company Name	Contact Name	Telephone Number	Fax Number
Blythe Group Co	Greg Doucette	970-242-1058	970-242-2268
FCI Constructors, Inc. - GJ	Craig Reid	970-434-9093	970-434-7583
2 H Mechanical, LLC	Phil Herrera	970-778-4562	1-866-298-6054

Cost Impact	Drawing Impact	Schedule Impact
No	Yes	No

Question — **Date Required: 7/31/2012**

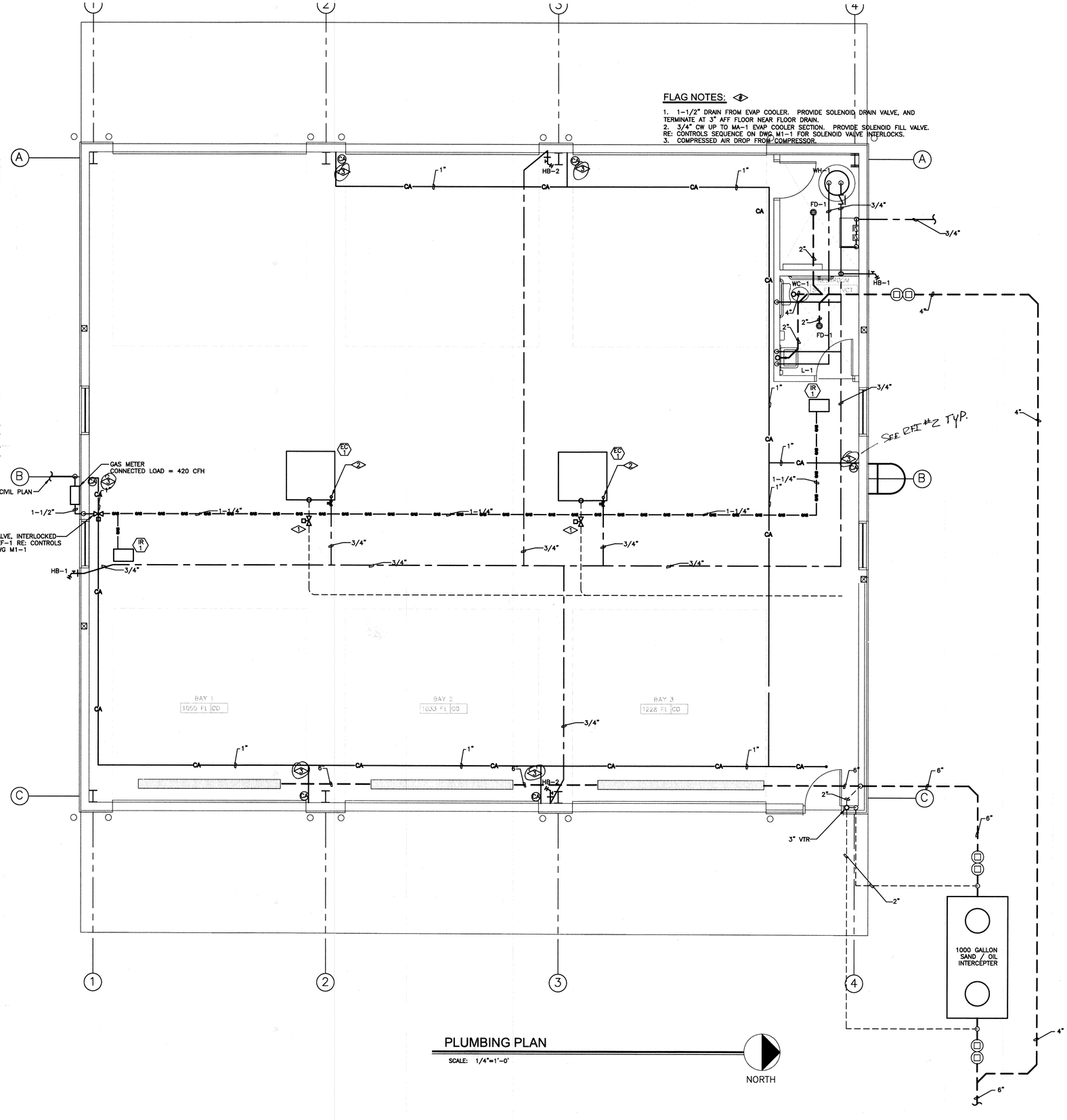
Reference Drawing(s): P1.1

Compressed air distribution lines will be 3/4" in lieu of 1".

Suggestion

Answer — **Date Answered: 7/24/2012**

This is for documentation only, no response is required.



PLUMBING PLAN

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

NORTH

FLEET SERVICES
MAINTENANCE BUILDING & RETRO-FIT
RFP-3410-12-DH

• Architecture
• Engineering
• Project Management
• Interiors

BLYTHE GROUP co.

The Art & Science of Construction

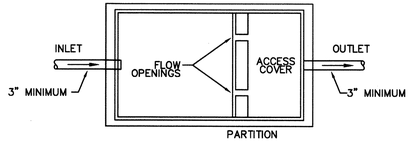
618 Road Avenue
Grand Junction, CO 81501
office: 970.242.1058
www.theblythegroup.com

Phase	Date
CONST DOCS	7/10/12

Project No.	Drawn by:
12-063	BCE

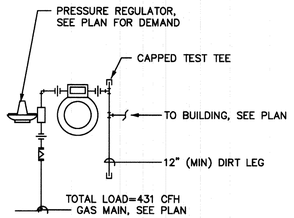
PLUMBING PLAN

P1-1

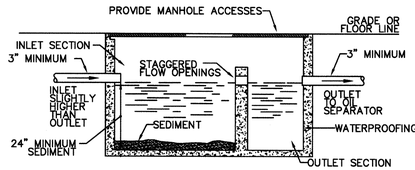


PLAN VIEW

NOTE:
GAS METER & REGULATOR SHALL BE BY THE LOCAL GAS COMPANY.

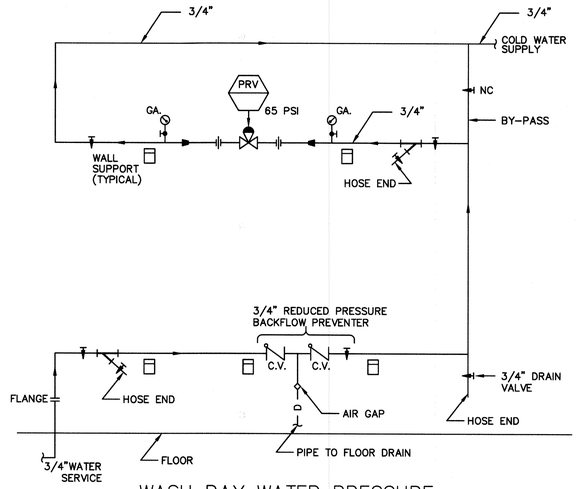


GAS METER DETAIL
NOT TO SCALE



SECTION VIEW

SAND INTERCEPTOR FOR USE WITH OIL INTERCEPTOR DETAIL
NOT TO SCALE



WASH BAY WATER PRESSURE REDUCING STATION DETAIL
NOT TO SCALE

PLUMBING SPECIFICATION.

1. SCOPE OF WORK

A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE (LATEST EDITION), ALL LOCAL CODES AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE.
C. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.

2. PERMITS

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.

3. SHOP DRAWINGS

A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ACHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.

4. DOMESTIC WATER SUPPLY PIPING

A. UNDERGROUND: PROVIDE TYPE 'K' SOFT DRAWN COPPER TUBING WITH BRAZED CONNECTIONS.
B. ABOVE GROUND: PROVIDE TYPE 'L' HARD DRAWN COPPER TUBING WITH 125 PSI SOLDER JOINTS, COPPER OR BRASS FITTINGS. ALL SOLDER TO BE 'NO LEAD' TYPE.
C. ALL HOT WATER PIPING TO BE INSULATED WITH 1" FIBERGLASS INSULATION.
D. ALL COLD WATER PIPING TO BE INSULATED WITH ½" FOAM INSULATION.

5. SANTARY/STORM DRAINAGE AND VENT PIPING.

A. ABOVE GRADE:
–2"BELOW: SCH.40 GALV. STL. PIPE WITH SCREWED ENDS OR SCH. 40PVC WITH SOLVENT JOINTS OR DWV COPPER WITH SOLDER JOINTS. ALL SOLDER TO BE 'NO LEAD' TYPE.
–3" AND ABOVE: SERVICE WT. CAST IRON WITH NO–HUB OR BELL AND SPIGOT JOINTS; OR SCH 40 PVC WITH SOLVENT JOINTS.
B. BELOW GRADE: SERVICE WT. CAST IRON WITH NO–HUB OR BELL AND SPIGOT JOINTS; OR SCH 40 PVC WITH SOLVENT JOINTS.
C. PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL NOT CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.
D. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG TURN FITTINGS.
E. DRAINAGE PIPING 3" SIZE AND SMALLER SHALL RUN AT A UNIFORM GRADE OF AT LEAST ¼" PER FOOT. AND PIPING LARGER THAN 3" SHALL BE RUN AT A GRADE OF NO LESS THAN 1/8"PER FOOT.
F. ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES.
G. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE VENT PIPING RUN THROUGH THE ROOF.

6. ALL STUB–INS AND/OR SLAB OR WALL PENETRATION TO BE PER INTERNATIONAL PLUMBING CODE (LATEST EDITION).ALL PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR FOOTINGS SHALL BE SLEEVED.

7. PIPE SUPPORTS

A. ABOVE GRADE
ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE AND PERFORMED METAL TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL BE AS SPECIFIED IN INTERNATIONAL PLUMBING CODE (LATEST EDITION).
B. BELOW GRADE
EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH AN EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ITS ENTIRE LENGTH.
–INTERIOR: THE PIPE SHALL BE INSTALLED (UNLESS OTHERWISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE IN ANY DIRECT CONTACT WITH THE CONCRETE AT ANY POINT.
–EXTERIOR: THE WATER PIPE SHALL HAVE A MINIMUM OF 42" OF COVER AND THE SANITARY WASTE PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.

8. MISCELLANEOUS

A. COORDINATE INSTALLATION OF ALL ROOFS FLASHING AT ROOF PENETRATION.
B. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS AND DIMENSIONS AT THE JOB SITE.
C. THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION. THE EXACT DIMENSIONS OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT THE AVAILABLE SPACE.

9. TESTING

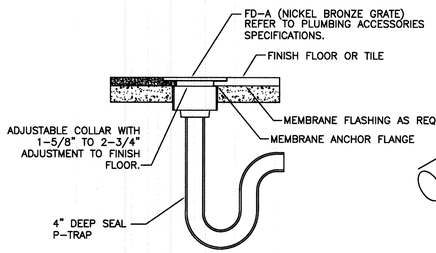
A. PLUMBING SYSTEM SHALL BE FLOW AND PRESSURE TESTED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (LATEST EDITION).

10. GUARANTEE

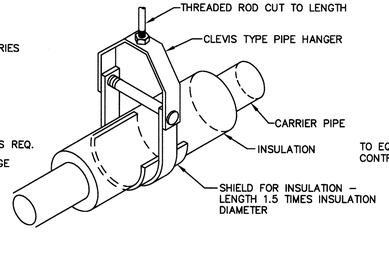
A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
B. FOR THE SAME PERIOD. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

PLUMBING FIXTURE SCHEDULE

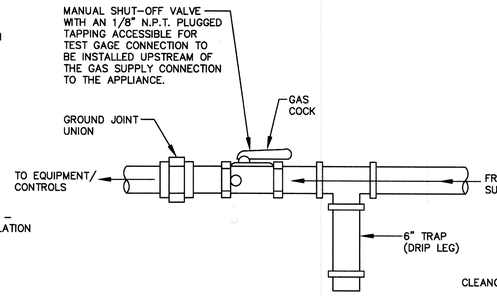
ITEM	MANUFACTURER	MODEL	TRIM/ACCESSORIES	NOTES
BFP–1	FEBCO	860	WYE STRAINER, BALL SHUTOFF REDUCED PRESSURE ASSEMBLY	–
WC–1	AMERICAN STD	2320.101	PROVIDE ALL ITEM NECESSARY FOR STANDARD INSTALLATION	–
FD–1	ZURN	Z453–5B	–	–
L–1	KOHLER	K–2202–4	ADA, 4" CENTERS, COUNTER MOUNT K–8998, K–7404–5A, ADA TRIM	–
HB–1	WOODFORD	B67	FREEZEPROOF	–
HB–2	WOODFORD	76	MILD CLIMATE	–



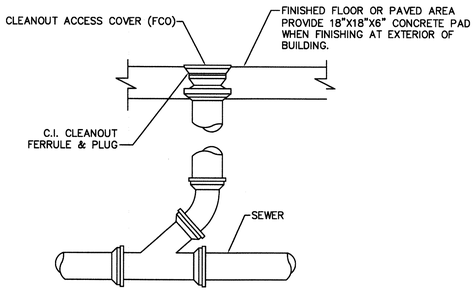
TOILET AREA FLOOR DRAIN
NOT TO SCALE



CLEVIS TYPE PIPE HANGER FOR INSULATED PIPE
NTS



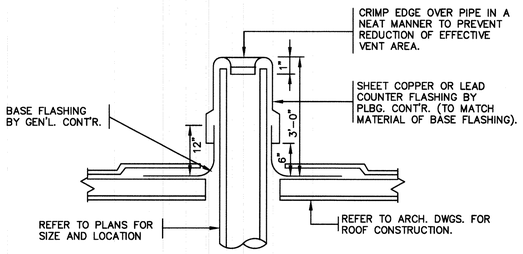
GAS CONNECTION TO EQUIPMENT DETAIL
NOT TO SCALE



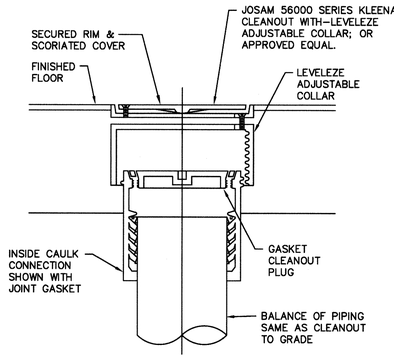
CLEANOUT DETAIL
NOT TO SCALE

PLUMBING FIXTURE CONNECTION SCHEDULE

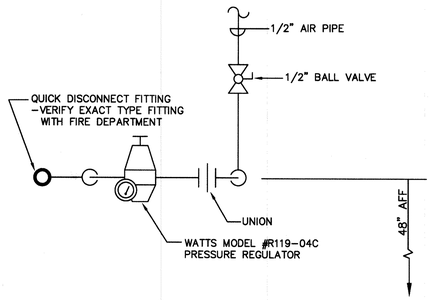
ITEM	WASTE	VENT	COLD WATER	HOT WATER	NOTES
WATER CLOSET–FLUSH TANK	3"	2"	3/4"	–	–
LAVATORY	1–1/2"	1–1/2"	1/2"	1/2"	–
SINK	1–1/2"	1–1/2"	1/2"	1/2"	–
URINAL	3"	2"	1"	–	–
FLOOR DRAIN	2"	1–1/2"	–	–	–
HOSE BIBB	–	–	3/4"	–	–
UTILITY SINK	3"	1–1/2"	1/2"	1/2"	–
WATER FOUNTAIN	1 1/4"	1–1/4"	1/2"	–	–



PLUMBING VENT THROUGH FLAT ROOF DETAIL
NOT TO SCALE



FLOOR CLEANOUT DETAIL
NOT TO SCALE



TYPICAL AIR STATION DETAIL
NOT TO SCALE

ELECTRIC WATER HEATER SCHEDULE (WH)

ITEM NO.	SERVICE	CAPACITY	RECOVERY @80 DEG. F. RISE	HEATING ELEMENT KW	ELECTRIC V./PH.	WATER CONN.	MANUFACTURER & MODEL	REMARKS
WH–1	OFFICE TOILET AREA	20	15	3	240/1/60	3/4"	STATEMANS SSE–20	PROVIDE ASME RELIEF VALVE

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Phase: CONST DOCS
Date: 7/10/12

Project No. 12-063
Drawn by: BCE

PLUMBING DETAILS

P3-1

CODE STUDY AND CONTROL SEQUENCE:

NEC 2011, NFPA 70
THE 2011 NATIONAL ELECTRIC CODE IS ALSO NFPA 70. THIS SPACE IS A MINOR REPAIR GARAGE ACCORDING TO THE NEC. THIS MEANS THEY WILL NOT BE TRANSFERRING FUEL IN THE SPACE. THIS IS A KEY COMPONENT OF THIS CODE REVIEW. THE SPACE DOES NOT HAVE TO BE CLASSIFIED IF THE PROPER VENTILATION IS PROVIDED. THE "PROPER" VENTILATION ACCORDING TO THE NEC IS 1 CFM PER SQUARE FOOT OF SPACE TO KEEP IT UNCLASSIFIED.

THE INTERNATIONAL MECHANICAL CODE 2012
THE 2012 IMC WOULD CLASSIFY THIS SPACE AS A REPAIR GARAGE. 2012 CODE REQUIRES 0.75 CFM PER SQUARE FOOT OF EXHAUST FOR THE SPACE. THIS CAN BE CONTINUOUS EXHAUST OR IT CAN BE CONTROLLED BY A GAS DETECTION SYSTEM DETECTING CARBON MONOXIDE. WE WILL BE CONTROLLING THIS FROM A GAS DETECTION SYSTEM. HOWEVER, THE 0.75 CFM PER SQUARE FOOT WILL NOT BE USED, AS THE REQUIREMENT FROM THE NEC IS HIGHER AT 1 CFM PER SQUARE FOOT. THE IMC 2012 ALSO STATES REQUIREMENTS FOR NATURAL GAS. THE KEY ELEMENT IN THIS ITEM IS THAT IT IS IN A GASEOUS FORM AND THAT IT IS ODORIZED FROM THE NATURAL GAS UTILITY. THE REQUIREMENT IS TO ACTIVATE THE GAS DETECTION SYSTEM ON A DETECTION OF NATURAL GAS AT 25% OF THE LOWER EXPLOSION LIMIT. AN ALARM WILL ALSO ACTIVATE IF THE GAS DETECTION SYSTEM FAILS. THIS AIR FLOW VALUE IS 1 CUBIC FOOT OF AIR PER 12 CUBIC FEET OF SPACE OR 5 AIR CHANGES PER HOUR.

INTERNATIONAL BUILDING CODE, 2012
THE INTERNATIONAL BUILDING CODE, 2012 MIRRORS THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE LISTED ABOVE.

INTERNATIONAL FIRE CODE, 2012
THE INTERNATIONAL FIRE CODE, 2012 MIRRORS THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL MECHANICAL CODE, 2012. AGAIN, THE REQUIREMENTS FOR LIQUID NATURAL GAS DO NOT APPLY FOR NON ODORIZED GAS.

WITH THE ABOVE CODE INFORMATION, THE SEQUENCE OF OPERATION FOR THE MAINTENANCE BAYS WILL BE AS FOLLOWS:
NORMAL OPERATION.

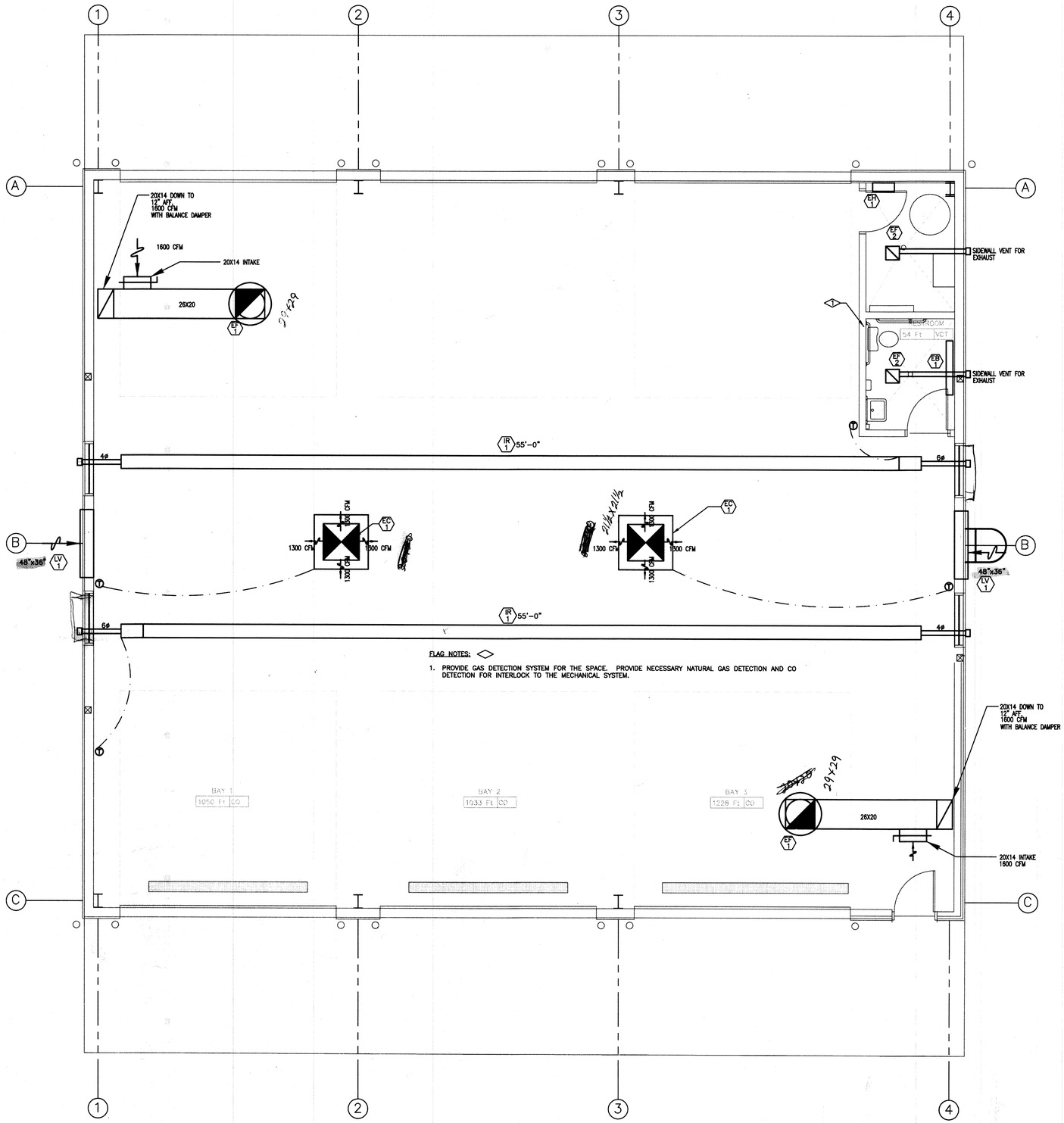
THE INFRARED HEATERS WILL PROVIDE THE HEATING FOR THE SPACE. EACH ONE WILL HAVE A THERMOSTAT ON THE WALL CONTROLLING AN AREA. THE SPACE TEMPERATURE WILL CONTROL TO ABOVE 60 DEGREES F. AND WILL SHUT OFF ABOVE 70 DEGREES F.

THE EVAPORATIVE COOLERS, EC-1 HAVE A MANUAL CONTROL PANEL ON THE WALL AS WELL AS A SPACE MOUNTED THERMOSTAT. IF THE OUTSIDE AIR TEMPERATURE IS ABOVE 75 DEGREES AND THE SPACE TEMPERATURE RISES ABOVE 75 DEGREES, THE EVAPORATIVE COOLER WILL BE ENABLED, FILLED WITH WATER AND MAINTAIN 75 DEGREES TEMPERATURE IN THE SPACE. ALL THE FUNCTIONS CAN ALSO BE CONTROLLED MANUALLY FROM THE WALL MOUNTED CONTROLS. IF THE OUTSIDE AIR IS BELOW 45 DEGREES F, THE EVAPORATIVE COOLING WILL DRAIN. THE SUPPLY FAN CAN ALSO BE TURNED ON AT ANY TIME MANUALLY IF VENTILATION IS NEEDED BY THE OCCUPANTS.

THE EXHAUST FANS FOR THE VEHICLE EXHAUST SYSTEM SHALL BE OFF. THIS INCLUDES EF-1, AND EF-2. ON DETECTION OF CARBON MONOXIDE, THE MOTORIZED DAMPERS ON THE LOUVERS WILL OPEN AND OPERATE WITH CO LEVELS ABOVE 10 PPM. IT WILL PROVIDE AIR 100% OUTSIDE AIR AND WILL REMAIN OPEN UNTIL THE CO LIMITS FALL BELOW 5 PPM. THE EXHAUST FANS EF-1, AND EF-2 WILL TURN ON.

ON DETECTION OF NATURAL GAS

THE MOTORIZED DAMPERS ON THE LOUVERS WILL OPEN AND STAY OPEN WITH NATURAL GAS LEVELS ABOVE 25% LEL. THE GAS LINE TO THE REPAIR GARAGE AREA WILL BE TURNED OFF WITH A GAS SOLENOID VALVE TO CUT HEATING TO THE ENTIRE SPACE. IT WILL REMAIN IN THIS CONDITION UNTIL THE NATURAL GAS LIMITS FALL BELOW 5% LEL. THE EXHAUST FANS EF-1 WILL TURN ON PROVIDING 5 AIR CHANGES PER HOUR OF EXHAUST. THE GARAGE DOOR OPERATORS SHALL BE ACTIVATED TO OPEN 18" OFF THE FLOOR TO PROVIDE ADDITIONAL MAKE UP AIR TO THE SPACE FOR THE EXHAUST BALANCE.



MECHANICAL PLAN
SCALE: 1/4"=1'-0"

NORTH

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Phase	Date
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△	
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Project No. 12-063	Drawn by: BCE

MECHANICAL PLANS

M1-1

MECHANICAL PROVISIONS

1. SCOPE OF WORK

A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE.
C. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.

2. PERMITS

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.

3. SHOP DRAWINGS

A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ACHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.

4. FLEXIBLE DUCT WORK

A. FLEXIBLE TYPE DUCT SHALL BE OF TWO ELEMENT SPIRAL CONSTRUCTION COMPOSED OF A CORROSION RESISTANT METAL SUPPORTING SPIRAL AND COATED FABRIC WITH A MINERIAL BASE. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY U.L., CLASS 1 DUCTS, AND SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50.
B. USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 6 LINEAR FEET PER RUN.
C. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.

5. DUCTWORK

A. THE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "SMACNA" APPLICABLE MANUALS.
B. ALL DUCTWORK SHALL BE THE LOW VELOCITY TYPE, UNLESS SPECIFIED OTHERWISE.
C. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON DRAWINGS.
D. ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS, SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.
E. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE.
F. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES.DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.
G. ALL CONCEALED DUCTWORK SHALL BE INSULATED WITH 1-1/2" FIBERGLASS INSULATING BLANKET WITH ALUMINUM FOIL FACING.
H. ALL SUPPLY AND RETURN DUCTWORK 15 FEET DOWNSTREAM OF THE HVAC UNIT SHALL BE INTERNALLY LINED WITH A 1/2" ACOUSTICAL DUCT LINER.

6. HVAC CONTROLS

A. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQUIRED.

7. ELECTRICAL

A. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR A. FOR LOCATION OF WIRING FOR EACH HVAC UNIT.

8. PIPE SUPPORTS

A. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.

9. GAS PIPING

A. PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON FITTINGS.
WHERE GAS PIPE CONNECTS TO EQUIPMENT, IT SHALL BE PROVIDED WITH A DRIP LEG THE FULL SIZE OF THE RUNOUT, A 100% SHUT-OFF VALVE AND A UNION. GAS PIPING CONTAINING PRESSURE GREATER THAN 9" W.G. SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH WELDED JOINTS.

10. MISCELLANEOUS

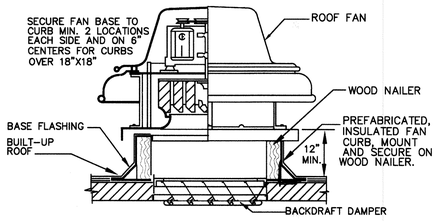
A. ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.
B. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.
C. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
D. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT.
E. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

11. TESTING AND BALANCING

A. THE HVAC SYSTEM SHALL BE TESTED AND AND BALANCED BY AN INDEPENDENT AGENCY, UNDER THE SUPER-VISION OF A LICENSED PROFESSIONAL ENGINEER. A SEALED TYPE WRITTEN REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

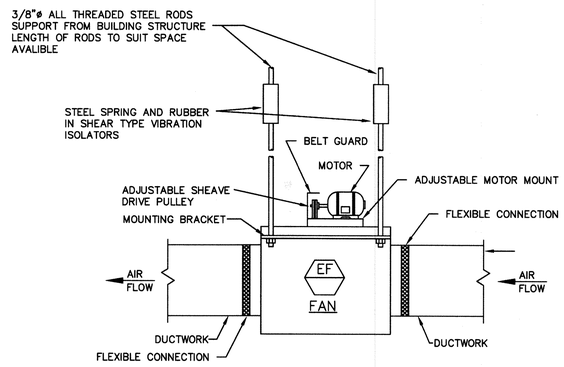
12. GUARANTEE

A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
B. FOR THE SAME PERIOD, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.



ROOF FAN MOUNTING DETAIL

NOT TO SCALE



CENTRIFUGAL IN-LINE FAN DETAIL

N.T.S.

RADIANT HEATER SCHEDULE (RH)

EQUIPMENT NO.	SERVICE	INPUT (MBH)	OUTPUT (MBH)	FUEL TYPE	IGNITION TYPE	TUBE DIAMETER	ELECTRIC AMPS	ELECTRIC VOLT.-PH.-CY.	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
IR-1	BAY HEATING	175	140	NG	ELEC	4"	2.25	120-1-60	ROBERTS GORDON BH-175 55 FEET	POLISHED ALUMINUM REFLECTOR AND HANGERS, SEE NOTES

NOTES:
PROVIDE WITH SPARK IGNITION CONTROL, PROGRAMMABLE THERMOSTAT, BURNER, CONTROLS, PREWIRED CONTROL HOUSING, COMBUSTION AND AIR PROVING SWITCHES, LENGTH SHALL BE 55 FEET.

FAN SCHEDULE (EF)

EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN. W.G.)	MOTOR WATTS	MOTOR HP	MOTOR RPM	MOTOR VOLT.-PH.-CY.	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
EF-1	SERVICE BAY	ROOF	3200	0.75"	-	3/4	1055	208/3/60	GREENHECK GB-180	NOTE 1
EF-2	RESTROOM	CEILING	75	.5"	80	-	950	120/1/60	GREENHECK SP-B110	NOTE 2

NOTES:
1. PROVIDE WITH BACKDRAFT DAMPER, ROOF CURB, INTERLOCK WITH GAS DETECTION AND BELT TENSIONER.
2. PROVIDE WITH BACKDRAFT DAMPER, SOLID STATE SPEED CONTROLLER, ISOLATION KIT AND WALL CAP.

ELECTRIC UNIT HEATER SCHEDULE (UH)

EQUIPMENT NO.	SERVICE	CFM	INPUT (MBH)	ELECTRIC KW	ELECTRIC V.-PH.-CY.	ELECTRIC MCA	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
EH-1	ON WALL OR SEMI-RECESSED IN WALL	245	6.8	2.0	208-1-60	-	BERKO FRA 4020	208 OR 240 1 PHASE, UP TO 4.8 KW. 21"X14"X6" UNIT OR WALL MOUNTED THERMOSTAT. PROVIDE CIRCUIT BREAKER.

EVAPORATIVE COOLER SCHEDULE (EC)

TAG	MANUFACTURER MODEL NUMBER	CFM @ .2" ESP	VOLT/ PHASE	AMPS	SPEED	NOTES
EC-1	BREEZAIR EXT 265	4600	120/1	992	2 SPEED	1, 206 LBS

NOTES:
1. PROVIDE UNITS WITH AUTOMATIC DRAIN/FILL KITS, PUMP AND CONTROLS INSIDE BUILDING. PROVIDE COOLER COVER AND DELIVER TO OWNER.

LOUVER & VENT SCHEDULE (EV) (LV)

EQUIPMENT NO.	SERVICE	WIDTH	HEIGHT	THICKNESS OF WALL	MATERIAL	SCREEN	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
LV-1	INTAKE	AS SHOWN	AS SHOWN	8"	STEEL	3/4"	RUSKIN, #L811	PRIME COAT FINISH

NOTES:
1. PROVIDE WITH MOTORIZED DAMPERS INTERLOCKED WITH THE GAS DETECTION SYSTEM.

ELECTRIC BASEBOARD HEATER SCHEDULE (EB)

TAG	AREA SERVED	FEET	ELECTRICAL DATA WATTS	AMPS	VOLTAGE	MANUFACTURER	MODEL OR SERIES	NOTES
EB1	TOILET ROOM	5	250/FT	15	120/1/60	BERKO	RKOC WALL MOUNTED	1. PROVIDE UNIT MOUNTED THERMOSTAT

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Phase: CONST DOCS
Date: 7/10/12

Project No. 12-063
Drawn by: BCE

MECHANICAL DETAILS

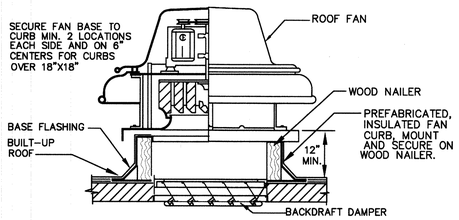
M3-1

FAN SCHEDULE

EF

EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN. W.G.)	MOTOR				MANUFACTURER & MODEL	OPTIONS–ACCESSORIES
					WATTS	HP	RPM	VOLT.–PH.–CY.		
EF–4	SHOP	ROOF	2500	0.5	–	1/2	927	120–1–60	COOK, #ACE–B 180	SEE NOTE 1

NOTES:
1. PROVIDE WITH ROOF CURB, BACKDRAFT DAMPER, DISCONNECT SWITCH.



ROOF FAN MOUNTING DETAIL

NOT TO SCALE

FLAG NOTES: ◇

1. PROVIDE AND INSTALL FOUR (4) 48X36 MOTORIZED DAMPERS ON THE EXISTING LOUVERS TO BE CONNECTED TO THE NEW GAS DETECTION SYSTEM AND MECHANICAL EQUIPMENT.
2. PROVIDE GAS DETECTION SYSTEM FOR THE SPACE. PROVIDE NECESSARY NATURAL GAS DETECTION AND CO2 DETECTION FOR INTERLOCK TO THE MECHANICAL SYSTEM.
3. PROVIDE A NEW 2500 CFM EXHAUST FAN MOUNTED AT THE PEAK OF THE SPACE FOR CONNECTION TO THE GAS DETECTION SYSTEM. ANOTHER OPTION FOR PROVIDING THE ADDITIONAL EXHAUST NEEDED WOULD BE TO BALANCE THE EXISTING EXHAUST FANS UP TO 6,250 CFM EACH.
4. PROVIDE A 3" GAS SOLENOID VALVE FOR CONTROL OF HEATING ON DETECTION OF CNG IN THE SPACE. SEE CONTROL SEQUENCE.

CODE STUDY AND CONTROL SEQUENCE:

NEC 2011, NFPA 70
THE 2011 NATIONAL ELECTRIC CODE IS ALSO NFPA 70. THIS SPACE IS A MINOR REPAIR GARAGE ACCORDING TO THE NEC. THIS MEANS THEY WILL NOT BE TRANSFERRING FUEL IN THE SPACE. THIS IS A KEY COMPONENT OF THIS CODE REVIEW. THE SPACE DOES NOT HAVE TO BE CLASSIFIED IF THE PROPER VENTILATION IS PROVIDED. THE "PROPER" VENTILATION ACCORDING TO THE NEC IS 1 CFM PER SQUARE FOOT OF SPACE TO KEEP IT UNCLASSIFIED.

THE INTERNATIONAL MECHANICAL CODE 2012
THE 2012 IMC WOULD CLASSIFY THIS SPACE AS A REPAIR GARAGE. 2012 CODE REQUIRES 0.75 CFM PER SQUARE FOOT OF EXHAUST FOR THE SPACE. THIS CAN BE CONTINUOUS EXHAUST OR IT CAN BE CONTROLLED BY A GAS DETECTION SYSTEM DETECTING CARBON MONOXIDE. WE WILL BE CONTROLLING THIS FROM A GAS DETECTION SYSTEM. HOWEVER, THE 0.75 CFM PER SQUARE FOOT WILL NOT BE USED, AS THE REQUIREMENT FROM THE NEC IS HIGHIER AT 1 CFM PER SQUARE FOOT. THE IMC 2012 ALSO STATES REQUIREMENTS FOR NATURAL GAS. THE KEY ELEMENT IN THIS ITEM IS THAT IT IS IN A GASEOUS FORM AND THAT IT IS ODORIZED FROM THE NATURAL GAS UTILITY. THE REQUIREMENT IS TO ACTIVATE THE GAS DETECTION SYSTEM ON A DETECTION OF NATURAL GAS AT 25% OF THE LOWER EXPLOSION LIMIT. AN ALARM WILL ALSO ACTIVATE IF THE GAS DETECTION SYSTEM FAILS. THIS AIR FLOW VALUE IS 1 CUBIC FOOT OF AIR PER 12 CUBIC FEET OF SPACE OR 5 AIR CHANGES PER HOUR.

INTERNATIONAL BUILDING CODE, 2012
THE INTERNATIONAL BUILDING CODE, 2012 MIRRORS THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE LISTED ABOVE.

INTERNATIONAL FIRE CODE, 2012
THE INTERNATIONAL FIRE CODE, 2012 MIRRORS THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL MECHANICAL CODE, 2012. AGAIN, THE REQUIREMENTS FOR LIQUID NATURAL GAS DO NOT APPLY FOR NON ODORIZED GAS.

WITH THE ABOVE CODE INFORMATION, THE SEQUENCE OF OPERATION FOR THE MAINTENANCE BAYS WILL BE AS FOLLOWS:
NORMAL OPERATION.

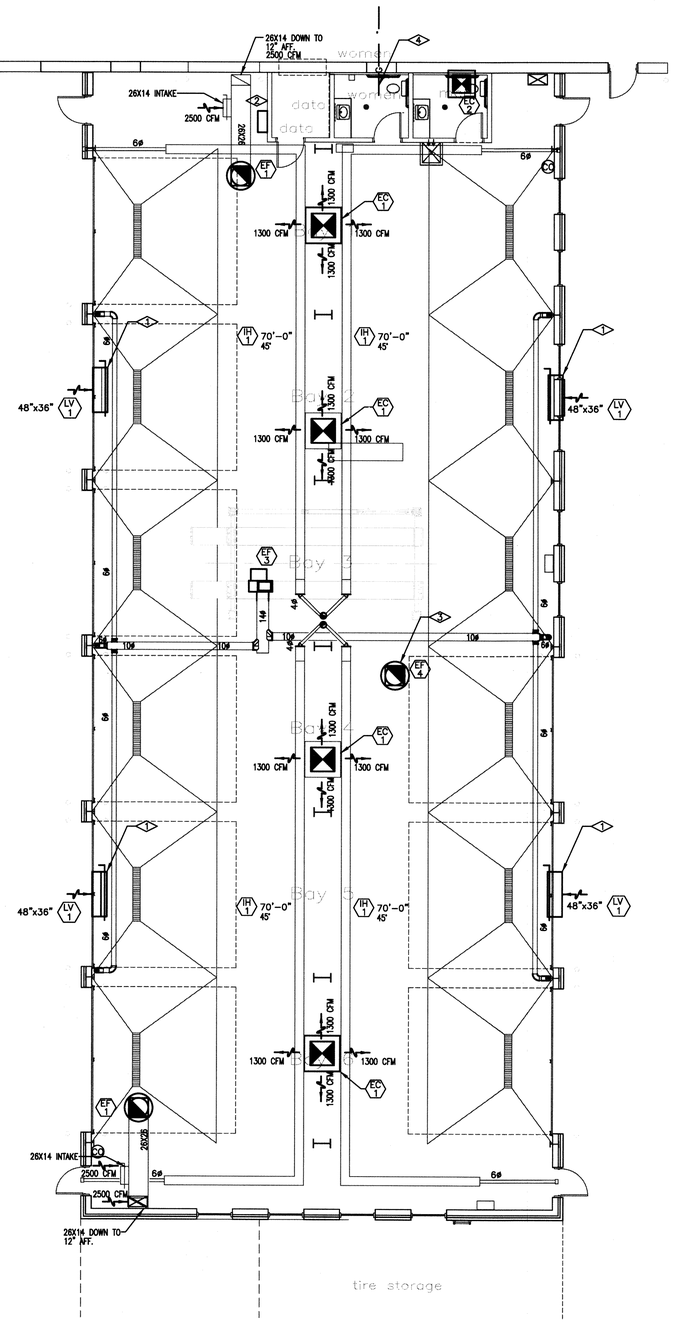
THE INFRARED HEATERS WILL PROVIDE THE HEATING FOR THE SPACE. EACH ONE WILL HAVE A THERMOSTAT ON THE WALL CONTROLLING AN AREA. THE SPACE TEMPERATURE WILL CONTROL TO ABOVE 60 DEGREES F. AND WILL SHUT OFF ABOVE 70 DEGREES F.

THE EVAPORATIVE COOLERS, EC–1 HAVE A MANUAL CONTROL PANEL ON THE WALL AS WELL AS A SPACE MOUNTED THERMOSTAT. IF THE OUTSIDE AIR TEMPERATURE IS ABOVE 75 DEGREES AND THE SPACE TEMPERATURE RISES ABOVE 75 DEGREES, THE EVAPORATIVE COOLER WILL BE ENABLED, FILLED WITH WATER AND MAINTAIN 75 DEGREES TEMPERATURE IN THE SPACE. ALL THE FUNCTIONS CAN ALSO BE CONTROLLED MANUALLY FROM THE WALL MOUNTED CONTROLS. IF THE OUTSIDE AIR IS BELOW 45 DEGREES F, THE EVAPORATIVE COOLING WILL DRAIN. THE SUPPLY FAN CAN ALSO BE TURNED ON AT ANY TIME MANUALLY IF VENTILATION IS NEEDED BY THE OCCUPANTS.

THE EXHAUST FANS FOR THE VEHICLE EXHAUST SYSTEM SHALL BE OFF. THIS INCLUDES EF–1, AND EF–2. ON DETECTION OF CARBON MONOXIDE, THE MOTORIZED DAMPERS WILL OPEN AND OPERATE WITH CO LEVELS ABOVE 10 PPM. THEY WILL REMAIN OPEN UNTIL THE CO LIMITS FALL BELOW 5 PPM. THE EXHAUST FANS EF–1, AND EF–2 WILL TURN ON.

ON DETECTION OF NATURAL GAS

THE MOTORIZED DAMPERS WILL OPEN AND STAY OPEN WITH NATURAL GAS LEVELS ABOVE 25% LEL. THE GAS LINE TO THE REPAIR GARAGE AREA WILL BE TURNED OFF WITH A GAS SOLENOID VALVE TO CUT HEATING TO THE ENTIRE SPACE. IT WILL REMAIN ON UNTIL THE NATURAL GAS LIMITS FALL BELOW 5% LEL. THE EXHAUST FANS EF–1, EF–2 AND EF–4 WILL TURN ON PROVIDING 5 AIR CHANGES PER HOUR OF EXHAUST. THE GARAGE DOOR OPERATORS SHALL BE ACTIVATED TO OPEN 18" OFF THE FLOOR TO PROVIDE ADDITIONAL MAKE UP AIR TO THE SPACE FOR THE EXHAUST BALANCE.



MECHANICAL - EXISTING BUILDING FLOOR PLAN

SCALE: 1/8"=1'–0"

NORTH

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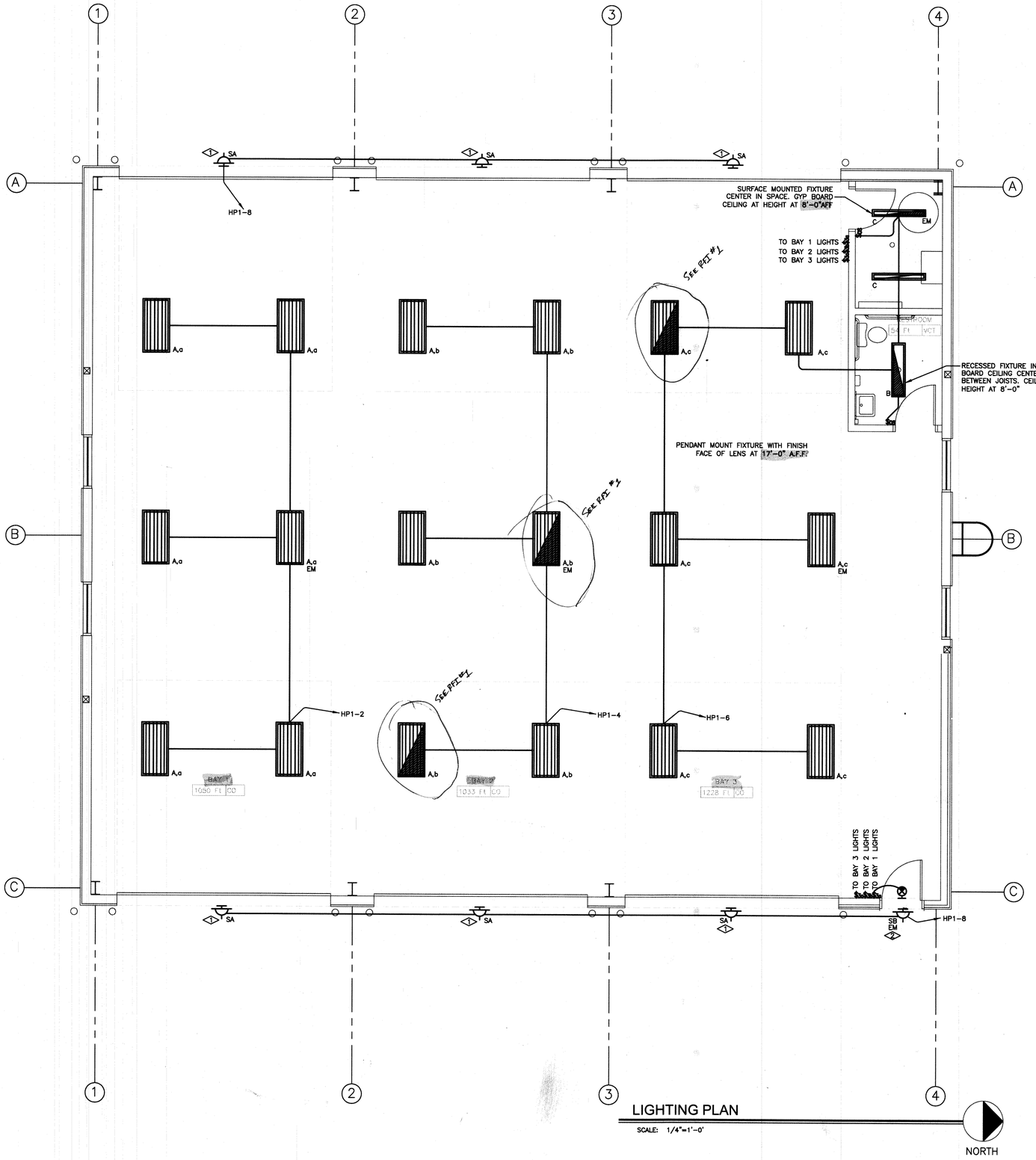
Project No.	Drawn by:
12-063	BCE

ME1-1



LIGHTING PLAN

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

NORTH

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER CATALOG NO.	MANUFACTURER CATALOG NO.	VOLTAGE MOUNTING # OF LAMPS	BALLAST LAMP TYPE LAMP CAT. #	DESCRIPTION
A	LITHONIA LIGHTING FGB24-6/32-B1X20U-ACL-MVOLT-2/3-GEB101S-LP835 +EL14	APPROVED EQUIVALENT	MVOLT AT 277 CHAIN HUNG 6	ELECTRONIC +EL14 FLUORESCENT F32T8/LP835	2'x4' FLUORESCENT HIGH BAY FIXTURE, SPECULAR ALUMINUM REFLECTOR, CLEAR ACRYLIC LENS, (2) BALLAST DUAL LEVEL SWITCHING, EM BALLAST IN FIXTURES SHOWN ON PLANS
B	LITHONIA LIGHTING SPBF-2/32-A12-MVOLT-GEB10IS+EL-LP835	APPROVED EQUIVALENT	MVOLTAT 277 RECESS GYP CLG 2	ELECTRONIC +EL FLUORESCENT F32T8/LP835	12"Wx4'L SPECIFICATION PREMIUM STATIC TROFFER RECESSED IN GYP-BOARD CEILING, STEEL HOUSING, ACRYLIC LENS
C	LITHONIA LIGHTING CB-2/32-MVOLT-GEB10IS +EL	APPROVED EQUIVALENT	MVOLT AT 277 SURFACE CLG 2	ELECTRONIC +EL FLUORESCENT F32T8/LP835	7"Wx48"L SURFACE MOUNTED CORRIDOR WRAP AROUND FIXTURE, STEEL HOUSING, WHITE ENAMEL FINISH, ACRYLIC WRAPAROUND LENS
SA	LITHONIA LIGHTING WSR-100MHC-FT-TB-PE-LPI	APPROVED EQUIVALENT	MULTI TAP (277) EXTERIOR WALL 1	ELECTRONIC METAL HALIDE 100MHC	18"Lx7.25"Hx9"D DECORATIVE HALF ROUND WALL MOUNTED FIXTURE, FORWARD THROW, DARK BRONZE FINISH, PHOTO CELL
SB	LITHONIA LIGHTING WSR-70MHC-FT-TB-PE-LPI-EC	APPROVED EQUIVALENT	MULTI TAP (277) EXTERIOR WALL 1	ELECTRONIC METAL HALIDE 70MHC	18"Lx7.25"Hx9"D DECORATIVE HALF ROUND WALL MOUNTED FIXTURE, FORWARD THROW, DARK BRONZE FINISH, PHOTO CELL, EMERGENCY LIGHT
HX	LITHONIA LHQMSW1G120/277 RO/ELN, *	APPROVED EQUIVALENT	120/277 WALL/CEILING N/A	NONE REQUIRED LED WITH UNIT	12-1/4"Wx7-1/2"Hx2"D, WHITE POLYCARBONATE, HOUSING WITH GREEN LETTERING, NICAD BATTERY WITH IND REMOTE HEAD.

NOTES:

1. THE ELECTRONIC FLUORESCENT BALLAST SHALL HAVE A TOTAL HARMONIC DISTORTION OF PLUS/MINUS 20% AND A BALLAST FACTOR EQUAL TO OR GREATER THAN 80%
2. ALL LIGHTING FIXTURES DENOTED WITH "EM" OR HALF SHADED SHALL BE PROVIDED WITH AN ENGINEER APPROVED EMERGENCY BALLAST FOR OPERATION OF TWO LAMPS IN A 4 LAMP FIXTURE AND 1 LAMP IN A 2 OR 3 LAMP FIXTURE. BALLAST SHALL BE CONNECT TO THE UNSWITCHED SIDE OF THE LIGHTING CIRCUIT.
3. GRID TROFFER TYPE LIGHTING FIXTURES SHALL NOT BE SUPPORTED FROM THE T-BAR CEILING GRID.
4. THE SYMBOL USED IN THIS SCHEDULE IS A GENERIC SYMBOL TO INDICATE AN EXIT LIGHT FIXTURE. REFER TO THE PLANS FOR THE NUMBER OF FACES REQUIRED AT EACH EXIT. INSTALL THE NUMBER OF FACES REQUIRED AT EACH EXIT. FIELD ADJUST THE LOCATION OF THE EXIT SIGNS FOR THE BEST VISIBILITY POSSIBLE.
5. THIS EXIT SIGN REQUIRES THE EXTRA BATTERY CAPACITY TO OPERATE THE REMOTELY LOCATED EMERGENCY HEAD FOR EGRESS AWAY FROM THE BUILDING.
6. FLUORESCENT LUMINAIRE DISCONNECTING MEANS; INDOOR LOCATIONS, OTHER THAN DWELLINGS AND ASSOCIATED ACCESSORY STRUCTURES, FLUORESCENT LUMINARIES (FIXTURES) THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE OR BALLASTED LUMINAIRES THAT ARE SUPPLIED FROM MULTI-WIRE BRANCH CIRCUITS AND CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE (FIXTURE), TO DISCONNECT SIMULTANEOUSLY FROM THE SOURCE OF SUPPLY ALL CONDUCTORS OF THE BALLAST, INCLUDING THE GROUNDED CONDUCTOR IF ANY. THE LINE SIDE TERMINALS OF THE DISCONNECTING MEANS SHALL BE GUARDED. THE DISCONNECTING MEANS SHALL BE LOCATED SO AS TO BE ACCESSIBLE TO QUALIFIED PERSONS BEFORE SERVICING OR MAINTAINING THE BALLAST. THIS REQUIREMENT SHALL BECOME EFFECTIVE JANUARY 1, 2008.

GENERAL DRAWING FLAG NOTES:

1. MOUNT FIXTURE TYPE SA AT 18'-0" A.F.F. TO BOTTOM OF FIXTURE, CENTERED OVER OVER OPENING. TYPICAL OF ALL TYPE SD FIXTURES. SET THE PHOTOCELL TO TURN THE LIGHTS ON AT DARK AND OFF AT DAWN. SLIGHT ADJUSTMENTS CAN BE MADE TO THE MOUNTING HEIGHT AS NECESSARY TO WORK WITH THE BUILDING STRUCTURE.
2. MOUNT FIXTURE SB AT 8'-4" A.F.F. TO BOTTOM OF FIXTURE CENTERED OVER MAN DOOR. PROVIDE AN EMERGENCY FUNCTION IN THIS FIXTURE FOR EGRESS AWAY FROM THE BUILDING. SLIGHT ADJUSTMENTS CAN BE MADE TO THE MOUNTING HEIGHT AS NECESSARY TO WORK WITH THE BUILDING STRUCTURE.

FCI Constructors, Inc.

Request for Information 001

Detailed, RFIs Grouped by RFI Number with Cost

CNG Maintenance Building
333 West Avenue, Grand Junction, CO

Project # 10-12-016
Tel: tbd Fax: tbd

FCI Constructors, Inc. - GJ

RFI #: 001

Date Created: 7/24/2012

Answer Company	Answered By	Author Company	Authored By
FCI Constructors, Inc. - GJ P. O. Box 1767 Grand Junction, CO 81502	Justin Mendenhall Fax: 970-434-7583	FCI Constructors, Inc. - GJ P. O. Box 1767 Grand Junction, CO 81502	Justin Mendenhall

Co-Respondent

Author RFI Number

Subject	Discipline	Category
EM Light Fixture Location	Architectural/Electrical	Clarification

Company Name	Contact Name	Telephone Number	Fax Number
Magnum Electric Co, Inc.	Jeff Anderson	970-243-6655	970-243-1458
Blythe Group Co	Greg Doucette	970-242-1058	970-242-2268
FCI Constructors, Inc. - GJ	Craig Reid	970-434-9093	970-434-7583

Cost Impact	Drawing Impact	Schedule Impact
No	Yes	No

Question — **Date Required: 7/31/2012**

Reference Drawing(s): E1.1

All (3) EM Lights will be placed along grid line B.

Suggestion

Answer — **Date Answered: 7/24/2012**

This is for documentation only, no response is required.

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CONST DOCS	7/10/12

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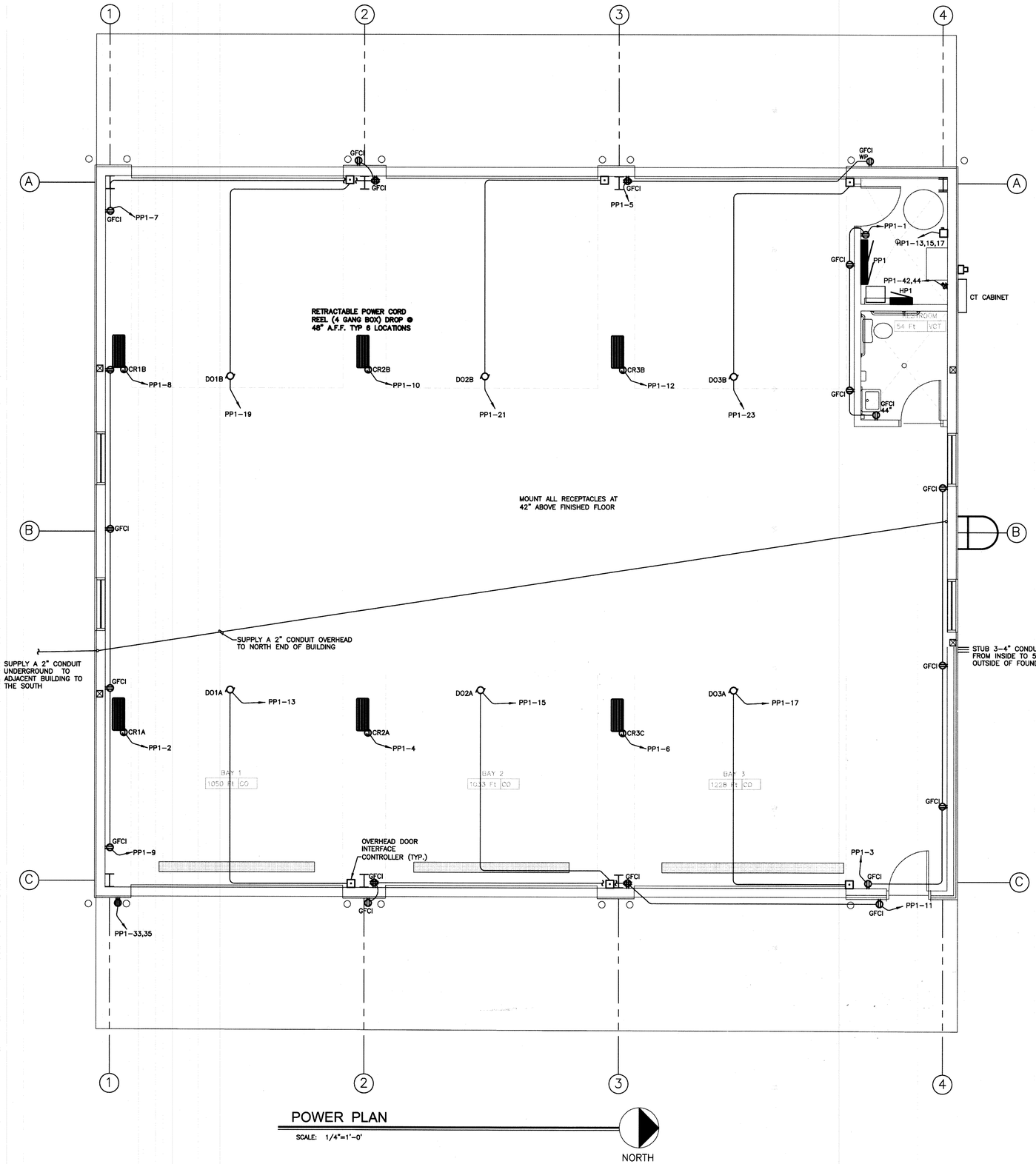
12-063	BCE

E1-1



POWER PLAN

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

NORTH

THE SEQUENCE OF OPERATION FOR THE MAINTENANCE BAYS WILL BE AS FOLLOWS:

DURING NORMAL OPERATION.

THE INFRARED HEATERS WILL PROVIDE THE HEATING FOR THE SPACE. EACH ONE WILL HAVE A THERMOSTAT ON THE WALL CONTROLLING AN AREA. THE SPACE TEMPERATURE WILL CONTROL TO ABOVE 60 DEGREES F. AND WILL SHUT OFF ABOVE 70 DEGREES F.

THE EVAPORATIVE COOLERS, EC-1 HAVE A MANUAL CONTROL PANEL ON THE WALL AS WELL AS A SPACE MOUNTED THERMOSTAT. IF THE OUTSIDE AIR TEMPERATURE IS ABOVE 75 DEGREES AND THE SPACE TEMPERATURE RISES ABOVE 75 DEGREES, THE EVAPORATIVE COOLER WILL BE ENABLED, FILLED WITH WATER AND MAINTAIN 75 DEGREES TEMPERATURE IN THE SPACE. ALL THE FUNCTIONS CAN ALSO BE CONTROLLED MANUALLY FROM THE WALL MOUNTED CONTROLS. IF THE OUTSIDE AIR IS BELOW 45 DEGREES F, THE EVAPORATIVE COOLING WILL DRAIN. THE SUPPLY FAN CAN ALSO BE TURNED ON AT ANY TIME MANUALLY IF VENTILATION IS NEEDED BY THE OCCUPANTS.

THE EXHAUST FANS FOR THE VEHICLE EXHAUST SYSTEM SHALL BE OFF. THIS INCLUDES EF-1, AND EF-2. ON DETECTION OF CARBON MONOXIDE, THE MOTORIZED DAMPERS ON THE LOUVERS WILL OPEN AND OPERATE WITH CO LEVELS ABOVE 10 PPM. IT WILL PROVIDE AIR 100% OUTSIDE AIR AND WILL REMAIN OPEN UNTIL THE CO LIMITS FALL BELOW 5 PPM. THE EXHAUST FANS EF-1, AND EF-2 WILL TURN ON.

WHEN THERE IS A DETECTION OF NATURAL GAS

THE MOTORIZED DAMPERS ON THE LOUVERS WILL OPEN AND STAY OPEN WITH NATURAL GAS LEVELS ABOVE 25% LEL. THE GAS LINE TO THE REPAIR GARAGE AREA WILL BE TURNED OFF WITH A GAS SOLENOID VALVE TO CUT HEATING TO THE ENTIRE SPACE. IT WILL REMAIN IN THIS CONDITION UNTIL THE NATURAL GAS LIMITS FALL BELOW 5% LEL . THE EXHAUST FANS EF-1 WILL TURN ON PROVIDING 5 AIR CHANGES PER HOUR OF EXHAUST. THE GARAGE DOOR OPERATORS SHALL BE ACTIVATED TO OPEN 18" OFF THE FLOOR TO PROVIDE ADDITIONAL MAKE UP AIR TO THE SPACE FOR THE EXHAUST BALANCE.

PANEL SCHEDULE – HP1 TYPE: PANELBOARD VOLTAGE: 277/480 ENCLOSURE: NEMA1 BUS SIZE: 225 MAIN BRKR: 200 MOUNTING: FLUSH PHASES: 3 WIRES: 4 SC RATING: 22000 NEUTRAL BUS: YES GROUND BUS: YES

LOAD TYPE	LOAD DESCRIPTION	AMPS POLES	CKT# LOAD	Ø	CKT# LOAD	AMPS POLES	LOAD TYPE	LOAD DESCRIPTION
MOTOR	OVERHEAD DOOR OPERATOR DO2C ---	20A 1P	1 1176	A	2 1044	20A 1P	LIGHTING	BAY 1 ---
MOTOR	OVERHEAD DOOR OPERATOR DO2B ---	20A 1P	3 1176	B	4 1044	20A 1P	LIGHTING	BAY 2 ---
MOTOR	OVERHEAD DOOR OPERATOR DO2A ---	20A 1P	5 1176	C	6 1218	20A 1P	LIGHTING	BAY 3 ---
MOTOR	OVERHEAD DOOR OPERATOR DO1A ---	20A 1P	7 1176	A	8 1500	20A 1P	LIGHTING	EXTERIOR BUILDING ---
MOTOR	OVERHEAD DOOR OPERATOR DO2A ---	20A 1P	9 1176	B	10 1500	20A 1P	LIGHTING	PARKING LOT LIGHTS ---
MOTOR	OVERHEAD DOOR OPERATOR DO3A ---	20A 1P	11 1176	C	12 1500	20A 1P	LIGHTING	PARKING LOT LIGHTS ---
MOTOR	--- ---	--- ---	13 5820	A	14 0	--- ---	SPACE	--- ---
MOTOR	COMPRESSOR ---	30A 3P	15 5820	B	16 1200	20A 1P	SPARE	UNALLOCATED FUTURE ---
MOTOR	--- ---	--- ---	17 5820	C	18 1200	20A 1P	SPARE	UNALLOCATED FUTURE ---
SPACE	--- ---	--- ---	19 0	A	20 1200	20A 1P	SPARE	UNALLOCATED FUTURE ---
SPACE	--- ---	--- ---	21 0	B	22 1200	20A 1P	SPARE	UNALLOCATED FUTURE ---
SPACE	--- ---	--- ---	23 0	C	24 1200	20A 1P	SPARE	UNALLOCATED FUTURE ---
SUBFEED	--- ---	--- ---	25 19508	A	26 0	--- ---	SPACE	--- ---
SUBFEED	PANEL PP1 ---	100A 3P	27 18196	B	28 0	--- ---	SPACE	--- ---
SUBFEED	--- ---	--- ---	29 16996	C	30 0	--- ---	SPACE	--- ---

LOADS BY TYPE:

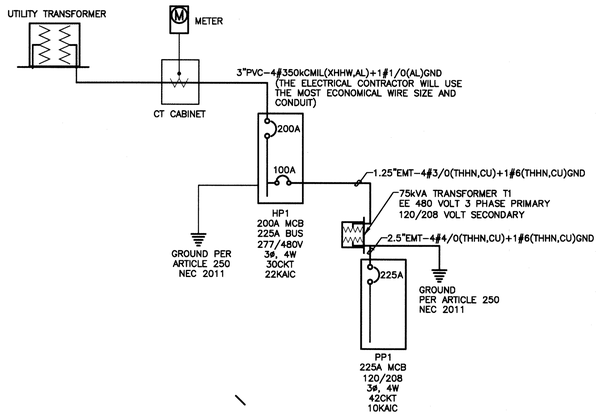
LOAD TYPE	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)
LIGHTING	7806.00	1.25	9757.50
KITCHEN	0.00	1.00	0.00
PROCESS	0.00	1.00	0.00
RECEPTACLES	10000.00	1.00	10000.00
RECEPTACLES	7720.00	0.50	3860.00
MECH HEATING	3600.00	1.00	3600.00
MECH COOLING	0.00	1.00	0.00
MECH YEAR ROUND	0.00	1.00	0.00
APPLIANCE	0.00	1.00	0.00
MISCELLANEOUS	0.00	1.00	0.00
MOTOR	35100.00	1.00	52650.00
SPARE	13200.00	1.00	13200.00
LARGEST MOTOR [1]	ABOVE	0.25	4365.00
TOTAL	77426.00		79882.00

LOADS BY PHASE:

PHASE	CONNECTED LOAD (VA)	CONNECTED LOAD (AMPS)	BALANCE (PERCENT)
A	27234.00	98.32	A–B: 98.5
B	26834.00	96.87	B–C: 87
C	23358.00	84.32	C–A: 85.8
TOTAL/AVERAGE	77426.00	93.17	90.4

NOTES:

1. THE LARGEST CONNECTED MOTOR LOAD IS INCLUDED IN MECHANICAL, PROCESS, OR MOTOR LOADS.



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Phase	Date
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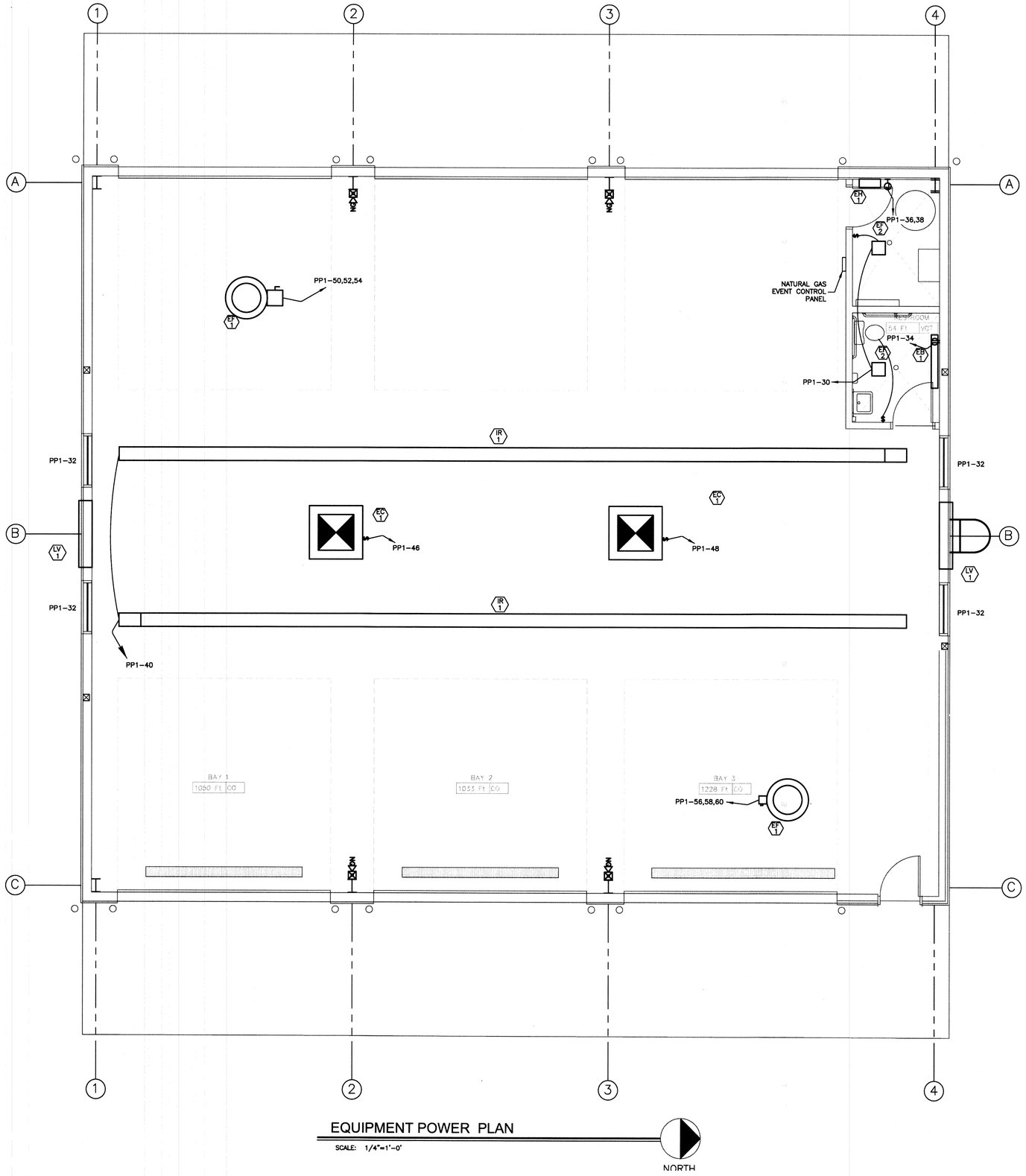
Project No.	Drawn by:
12-063	BCE

ELECTRICAL PLANS

E2-1



EQUIPMENT POWER PLAN

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

NORTH

PANEL SCHEDULE – PP1

TYPE: PANELBOARD
VOLTAGE: 120/208
ENCLOSURE: NEMA1
BUS SIZE: 225
MAIN BRKR: 225
MOUNTING: FLUSH
PHASES: 3
WIRES: 4
SC RATING: 10000
NEUTRAL BUS: YES
GROUND BUS: YES

LOAD TYPE	LOAD DESCRIPTION	AMPS POLES	CKT# LOAD	ø	CKT# LOAD	AMPS POLES	LOAD TYPE	LOAD DESCRIPTION
RECEPTACLE	MECHANICAL, RESTROOM, BAY 3 SW WALL	20A 1P	1 720	A	2 1176	20A 1P	MOTOR	BAY 1 EAST CORD REEL CR1B
RECEPTACLE	BAY 3 SOUTH WALL	20A 1P	3 720	B	4 1176	20A 1P	MOTOR	BAY 2 EAST CORD REEL CR2B
RECEPTACLE	BAY 2 & 3 EAST WALL	20A 1P	5 720	C	6 1176	20A 1P	MOTOR	BAY 3 EAST CORD REEL CR3B
RECEPTACLE	BAY 1 & 2 EAST WALL	20A 1P	7 720	A	8 1176	20A 1P	MOTOR	BAY 1 WEST CORD REEL CR1A
RECEPTACLE	BAY 1 NORTH WALL	20A 1P	9 720	B	10 1176	20A 1P	MOTOR	BAY 2 WEST CORD REEL CR1B
RECEPTACLE	BAY 2 &3 WEST WALL & EXTERIOR	20A 1P	11 720	C	12 1176	20A 1P	MOTOR	BAY 3 WEST CORD REEL CR1C
SPARE	UNALLOCATED FUTURE	20A 1P	13 1200	A	14 4000	50A 2P	RECEPTACLE	WELDER
SPARE	UNALLOCATED FUTURE	20A 1P	15 1200	B	16 4000	--- ---	RECEPTACLE	---
SPARE	UNALLOCATED FUTURE	20A 1P	17 1200	C	18 1200	20A 1P	RECEPTACLE	DATA COM
SPARE	UNALLOCATED FUTURE	20A 1P	19 1200	A	20 1200	20A 1P	RECEPTACLE	DATA COM
SPARE	UNALLOCATED FUTURE	20A 1P	21 1200	B	22 0	--- ---	SPACE	---
SPARE	UNALLOCATED FUTURE	20A 1P	23 1200	C	24 0	--- ---	SPACE	---
MOTOR	---	--- ---	25 1176	A	26 0	--- ---	SPACE	---
MOTOR	AUTO LIFT	20A 3P	27 1176	B	28 0	--- ---	SPACE	---
MOTOR	---	--- ---	29 1176	C	30 600	15A 1P	MOTOR	RESTROOM EXHAUST FANS
MECH HEATING	INSTA HOT	20A 2P	31 1500	A	32 600	15A 1P	MOTOR	MOTORIZED LOUVERS
MECH HEATING	---	--- ---	33 1500	B	34 1200	20A 1P	MECH HEATING	BASEBOARD HEATER
RECEPTACLE	TRUCK OUTLET	50A 2P	35 1500	C	36 1000	15A 2P	MECH HEATING	ELECTRIC UNIT HEATER
RECEPTACLE	---	--- ---	37 1500	A	38 1000	--- ---	MECH HEATING	---
MECH HEATING	HEAT TAPE	20A 1P	39 1100	B	40 400	15A 1P	MECH HEATING	RADIANT HEATER
PROCESS	COMPRESSOR CONTROLS	20A 1P	41 1200	C	42 1500	20A 2P	MECH HEATING	WATER HEATER
SPACE	---	--- ---	43 0	A	44 1500	--- ---	MECH HEATING	---
SPACE	---	--- ---	45 0	B	46 1788	20A 1P	MOTOR	EVAPORATIVE COOLER
SPACE	---	--- ---	47 0	C	48 1788	20A 1P	MOTOR	EVAPORATIVE COOLER
SPACE	---	--- ---	49 0	A	50 420	--- ---	MOTOR	---
SPACE	---	--- ---	51 0	B	52 420	15A 3P	MOTOR	EXHAUST FAN
SPACE	---	--- ---	53 0	C	54 420	--- ---	MOTOR	---
SPACE	---	--- ---	55 0	A	56 420	--- ---	MOTOR	---
SPACE	---	--- ---	57 0	B	58 420	15A 3P	MOTOR	EXHAUST FAN
SPACE	---	--- ---	59 0	C	60 420	--- ---	MOTOR	---

LOADS BY TYPE:

LOAD TYPE	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)
LIGHTING	0.00	1.25	0.00
KITCHEN	0.00	0.00	0.00
PROCESS	1200.00	1.00	1200.00
RECEPTACLES	10000.00	1.00	10000.00
RECEPTACLES	7720.00	0.50	3860.00
MECH HEATING	10700.00	1.00	10700.00
MECH COOLING	0.00	1.00	0.00
MECH YEAR ROUND	0.00	1.00	0.00
APPLIANCE	0.00	1.00	0.00
MISCELLANEOUS	0.00	1.00	0.00
MOTOR	17880.00	1.00	26820.00
SPARE	7200.00	1.00	7200.00
LARGEST MOTOR [1]	ABOVE	0.25	882.00
TOTAL	54700.00		51722.00

LOADS BY PHASE:

PHASE	CONNECTED LOAD (VA)	CONNECTED LOAD (AMPS)	BALANCE (PERCENT)
A	19508.00	162.57	A–B: 93.3
B	18196.00	151.63	B–C: 93.4
C	16996.00	141.63	C–A: 87.1
TOTAL/AVERAGE	54700.00	151.94	91.3

NOTES:

1. THE LARGEST CONNECTED MOTOR LOAD IS INCLUDED IN MECHANICAL, PROCESS, OR MOTOR LOADS.

MECHANICAL EQUIPMENT SCHEDULE

COMB: COMBINATION MOTOR STARTER
MAG: MAGNETIC MOTOR STARTER
NR: NONE REQUIRED
P/I: PLUG-IN UNIT
CONT: CONTRACTOR MAN: MANUAL MOTOR STARTER
W/U: SUPPLIED WITH UNIT:

UNIT NO	FUNCTION (NOTES)	LOAD	VOLTS	ø	FULL LOAD AMPS	BRANCH CIRCUIT CONDUIT SIZE	BRANCH CIRCUIT NO. CONDUCTOR	BRANCH CIRCUIT WIRE SIZE	GRND WIRE SIZE	BRKR SIZE	START	DISC FUSE
EC 1	EVAPORATIVE COOLER		120	1	14.9	3/4"	2	10	10	20	$	
EF 1	EXHAUST FAN		208	3	3.5	3/4"	3	12	12	15	MAG	30 10
EF 2	EXHAUST FAN		120	1	0.67	3/4"	2	12	12	15	$	
IR 1	RADIANT HEATER		120	1	2.25	3/4"	2	12	12	15	$	
EH 1	ELECTRIC UNIT HEATER	2kW	208	1	9.6	3/4"	2	12	12	15	W/U	30 15
EB 1	ELECTRIC BASEBOARD HEATER		120	1	15.0	3/4"	2	12	12	20	$	
LV 1	MOTORIZED LOUVER		120	1	1.0	3/4"	2	12	12	15	$	
WH 1	WATER HEATER	3kW	208	1	14.4	3/4"	2	12	12	20	W/U	30 20

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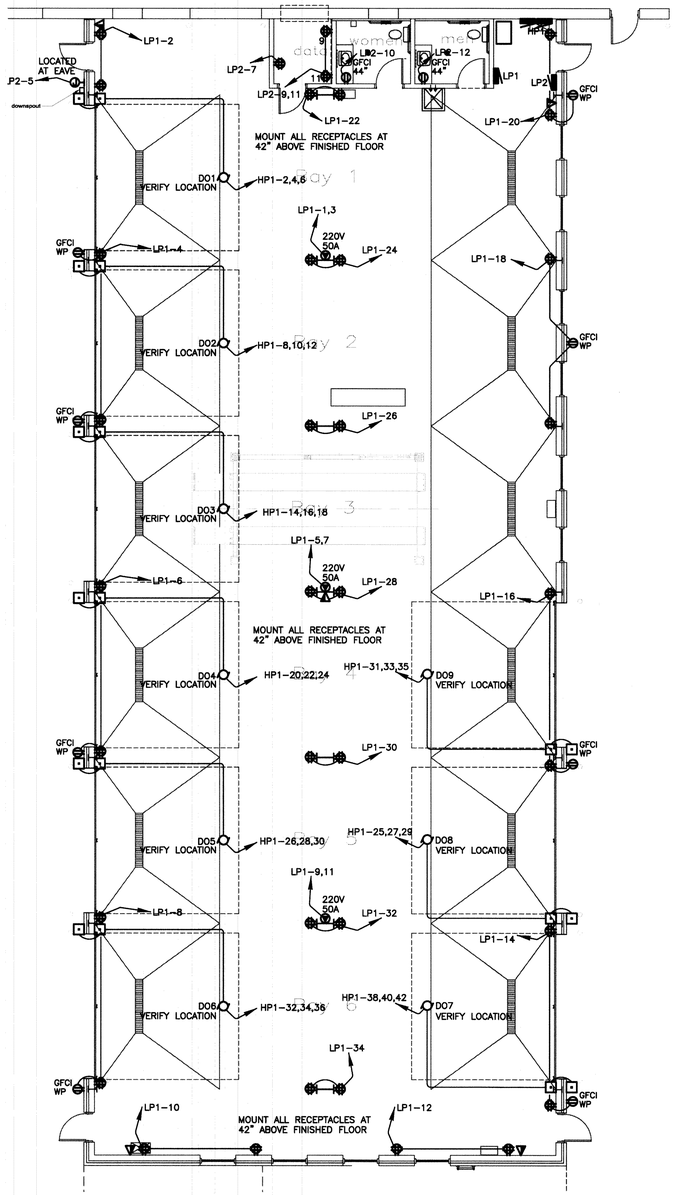
Phase	Date
CONST DOCS	7/10/12
△	
△	
△	
△	

Project No.	Drawn by:
12-063	BCE

MECH EQ. ELEC PLANS

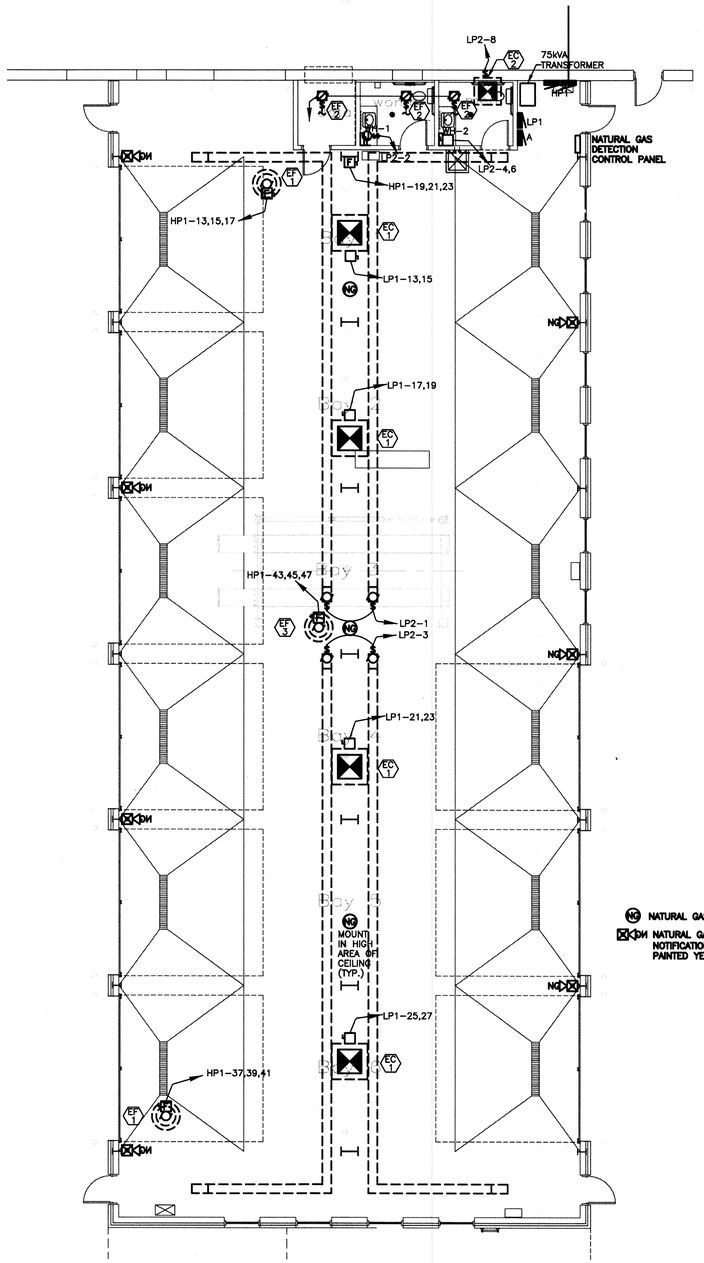
E2-2



POWER - EXISTING/DEMO FLOOR PLAN

SCALE: 1/8"=1'-0"

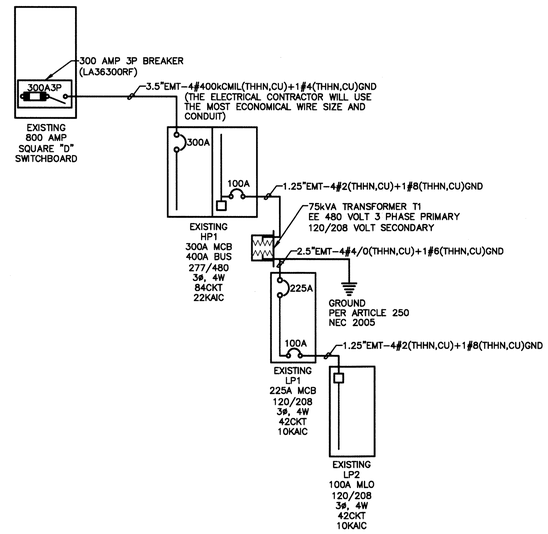
NORTH



MECHANICAL EQUIPMENT POWER EXISITNG/DEMO - FLOOR PLAN

SCALE: 1/8"=1'-0"

NORTH



THE SEQUENCE OF OPERATION FOR THE MAINTENANCE BAYS WILL BE AS FOLLOWS:

DURING NORMAL OPERATION.

THE INFRARED HEATERS WILL PROVIDE THE HEATING FOR THE SPACE. EACH ONE WILL HAVE A THERMOSTAT ON THE WALL CONTROLLING AN AREA. THE SPACE TEMPERATURE WILL CONTROL TO ABOVE 60 DEGREES F. AND WILL SHUT OFF ABOVE 70 DEGREES F.

THE EVAPORATIVE COOLERS, EC-1 HAVE A MANUAL CONTROL PANEL ON THE WALL AS WELL AS A SPACE MOUNTED THERMOSTAT. IF THE OUTSIDE AIR TEMPERATURE IS ABOVE 75 DEGREES AND THE SPACE TEMPERATURE RISES ABOVE 75 DEGREES, THE EVAPORATIVE COOLER WILL BE ENABLED, FILLED WITH WATER AND MAINTAIN 75 DEGREES TEMPERATURE IN THE SPACE. ALL THE FUNCTIONS CAN ALSO BE CONTROLLED MANUALLY FROM THE WALL MOUNTED CONTROLS. IF THE OUTSIDE AIR IS BELOW 45 DEGREES F, THE EVAPORATIVE COOLING WILL DRAIN. THE SUPPLY FAN CAN ALSO BE TURNED ON AT ANY TIME MANUALLY IF VENTILATION IS NEEDED BY THE OCCUPANTS.

THE EXHAUST FANS FOR THE VEHICLE EXHAUST SYSTEM SHALL BE OFF. THIS INCLUDES EF-1, AND EF-2. ON DETECTION OF CARBON MONOXIDE, THE MOTORIZED DAMPERS ON THE LOUVERS WILL OPEN AND OPERATE WITH CO LEVELS ABOVE 10 PPM. IT WILL PROVIDE AIR 100% OUTSIDE AIR AND WILL REMAIN OPEN UNTIL THE CO LIMITS FALL BELOW 5 PPM. THE EXHAUST FANS EF-1, AND EF-2 WILL TURN ON.

WHEN THERE IS A DETECTION OF NATURAL GAS

THE MOTORIZED DAMPERS ON THE LOUVERS WILL OPEN AND STAY OPEN WITH NATURAL GAS LEVELS ABOVE 25% LEL. THE GAS LINE TO THE REPAIR GARAGE AREA WILL BE TURNED OFF WITH A GAS SOLENOID VALVE TO CUT HEATING TO THE ENTIRE SPACE. IT WILL REMAIN IN THIS CONDITION UNTIL THE NATURAL GAS LIMITS FALL BELOW 5% LEL . THE EXHAUST FANS EF-1 WILL TURN ON PROVIDING 5 AIR CHANGES PER HOUR OF EXHAUST. THE GARAGE DOOR OPERATORS SHALL BE ACTIVATED TO OPEN 18" OFF THE FLOOR TO PROVIDE ADDITIONAL MAKE UP AIR TO THE SPACE FOR THE EXHAUST BALANCE.

SCOPE OF WORK FOR THE EXISTING FLEET SERVICES BUILDING:
BASICALLY THE BUIDLING WILL NOT NEED ADDITIONAL ELECTRICAL WORK TO BE UPGRADED TO SERVICE NATURAL GAS VEHICLES. THE BIGGEST PART OF THE UPGRADE WILL BE THE INSTALLATION OF A NATURAL GAS DETECTION SYSTEM AND THE INTERFACE NEEDED WITH THE MECHANICAL EQUIPMENT FOR OPERATION.

BUILDING POWER - EXISTING/DEMO FLOOR PLAN

SCALE: 1/16"=1'-0"

NORTH

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Phase	Date
CONST DOCS	7/10/12
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△	
△	
Project No. 12-063	Drawn by: BCE

ED2-1

GENERAL NOTES

1.1 Fabrication shall be in accordance with R.G.B. standard practices in compliance with the applicable sections, relating to design requirements and allowable stresses of the latest edition of the "AWS Structural Welding Code D1.1 and D1.3". R.G.B. manufacturing procedures are certified by:

Reference	Certification numbers
Houston	R.G.B. #456

1.2 MATERIALS

	ASTM DESIGNATION	MIN. YIELD STRENGTH
Hot Rolled Steel Shapes (W, S, C & L)	A572	Fy = 50 KSI
Steel Pipes	A500	Fy = 42 KSI
Structural Tubing	A500	Fy = 46 KSI
Structural Steel Web Plate	A572/A1011	Fy = 55 KSI
Structural Steel Flange Plates/Bars	A529/A572	Fy = 55 KSI
Cold Formed Light Gage	A653/A1011	Fy = 50, 55 KSI
Roof and Wall Sheets	A792/A653	Fy = 50, 80 KSI
Cable Brace	A475 – TYPE 1	Extra High Strength
Rod Brace	A36	Fy = 36 KSI
		MIN. TENSILE STRENGTH
Machine Bolts & Nuts	A307	Fu = 60 KSI
High Strength Bolts (1"ø and less)	A325–TYPE 1	Fu = 120 KSI
High Strength Bolts (>1"ø to 1 1/2"ø)	A325–TYPE 1	Fu = 105 KSI
Anchor Bolts (if supplied)	A36/A307/F1554	Fu = 60 KSI

1.3 PRIMER
Shop primer paint is a rust inhibitive primer which meets the end performance of Federal Specification SSPC No. 15 and is R.C.B. Red Oxide color. This paint is not intended for long term exposure to the elements. R.G.B. is not responsible for any deterioration of the shop primer paint as a result of improper handling and/or jobsite storage. R.G.B. shall not be responsible for any field applied paint and/or coatings. (Section 6.5 AISC Code of Standard Practice, specified in contract documents.

1.4 GALVANIZED OR SPECIAL COATINGS:
See Contract Documents

1.5 ALL BOLTS ARE 1/2"ø x 0'–1" A307 EXCEPT :
a) Eave strut connection – 1/2"ø x 0'–1 1/4" A307
b) Endwall rafter splice – 5/8"ø x 0'–1 3/4" A325–N
c) Endwall column to rafter connection – 1/2"ø x 0'–1 1/4" A325–N
d) Main frame connections – SEE CROSS SECTION

NOTE: Washers are not supplied unless noted otherwise on drawing

1.6 A325 BOLT TIGHTENING REQUIREMENTS

All high strength bolts are A325–N unless specifically noted otherwise.

Structural bolts shall be tightened by the turn–of–the–nut method in accordance with the 9th Edition AISC "Specification For Structural Joints " using ASTM A325 or A490 Bolts, when specifically required. A325–N bolts are supplied without washer unless otherwise noted on the drawings.

All bolted connections unless noted are designed as bearing type connections with bolt threads not excluded from the shear plane.

1.7 CLOSURE STRIPS ARE FURNISHED FOR APPLICATION:
INSIDE– Under roof panels at eave
OUTSIDE – Between endwall panels and rake trim
– Under continuous ridge vent skirts

1.8 ERECTION NOTE:
All bracing, strapping, & bridging shown and provided by R.G.B. for this building is required and shall be installed by the erector as a permanent part of the structure. If additional bracing is required for stability during erection, it shall be the erector's responsibility to determine the amount of such bracing and to procure and install as needed.

1.9 ERECTION AND UNLOADING NOT BY R.G.B.

1.10 SHORTAGES
Any claims or shortages by buyer must be made to R.G.B. within five (5) working days after delivery, or such claims will be considered to have been waived by the customer and disallowed.

1.11 CORRECTIONS OF ERRORS AND REPAIRS (MBMA 6.10)
Claims for correction of alleged misfits will be disallowed unless R.G.B. shall have received prior notice thereof and allowed reasonable inspection of such misfits. The correction of minor misfits by the use of drift pins to draw the components into line, moderate amounts of reaming, chipping and cutting, and the replacement of minor shortages of material are a normal part of erection and are not subject to claim. No part of the Building may be returned for alleged misfits without the prior approval of R.G.B.

BUYER/END USE CUSTOMER RESPONSIBILITIES

2.1 It is the responsibility of the BUYER/END USE CUSTOMER to obtain appropriate approvals and secure necessary permits from City, County, State, or Federal Agencies as required, and to advise/release R.G.B. to fabricate upon receiving such.

2.2 Rigid Global Buildings (hereafter referred to as R.G.B.) standard specifications apply unless stipulated otherwise in the Contract Documents. R.G.B. design, fabrication, quality criteria, standards, practice, methods and tolerances shall govern the work with any other interpretations to the contrary notwithstanding. It is understood by both Parties that the BUYER/END USE CUSTOMER is responsible for clarification of inclusions or exclusions from the architectural plans and/or specifications.

2.3 In case of discrepancies between R.G.B. structural steel plans and plans for other trades, R.G.B. plans shall govern. (Section. 3 AISC Code of Standard Practices, 9th Edition)

2.4 Approval of R.G.B. drawings and calculations indicates that R.G.B. has correctly interpreted and applied the Contract Documents. This approval constitutes the contractor/owners acceptance of the R.G.B. design concepts, assumptions, and loading. (Section 4 AISC Code and MBMA 3.3.3)

2.5 Once the BUYER/END USE CUSTOMER has signed R.G.B. Approval Package and the project is released for fabrication, changes shall be billed to the BUYER/END USE CUSTOMER including material, engineering and other costs. An additional fee may be charged if the project must be moved from the fabrication and shipping schedule.

RIGID GLOBAL BUILDINGS

DRAWING PACKAGE

SALES NO.	40901	JOB NO.	96730	BLDG.	A (Main)
CUSTOMER	FCI Constructors,Inc				
END USER	City of Grand Junction				
END USE	Fleet Services				
STREET	971 Coffman Rd, Bldg B				
CITY,ST,ZIP	Grand Junction, CO 81527				
COUNTY	Mesa				

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING AS INDICATED:

DESIGN LOADS:

Design Code	: IBC 09
Enclosure	: Closed
Dead Load (psf)	: Metal building structure only by RGB
Collateral Load (psf)	: 3
Wind Load	
Basic Wind Speed, 3 sec gust	: 90 mph
Wind Importance Factor, Iw	: 1.00
Wind Exposure	: C
Internal Pressure Coefficient, GCPi	: +0.18/–0.18 +0.55/–0.55 0.00
Wall Panel Design Wind Pressure	: 00.00
Live Load	:
Primary Framing (psf)	: 20.00
Trib. Area Reduction	: No
Secondary Framing (psf)	: 20.00
Snow Load	
Ground Snow Load, Pg (psf)	: 30.000
Roof Snow Load, Pf (psf)	: 30
Sloped Roof Snow Load, Ps (psf)	: 30
Snow Exposure Factor, Ce	: 1.000
Snow Importance Factor, Is	: 1.000
Thermal Factor, Ct	: 1.000
Sloped Factor, Cs	: 1.000
Seismic Load	
Seismic Importance Factor, Ie	: 1.00
Seismic Use Group	: II – Normal
Site Class	:
Mapped Spectral Response Acceleration	: Ss = 0.330 :S1 = 0.072
Spectral Response Coefficients	: Sds = 0.338 :Sd1 = 0.115
Seismic Design Category	: C
Basic Force Resisting Systems Used	: Steel Systems Not Specifically Detailed For Seismic Resistance : Rigid Frames : Braced Frames
Total Design Base Shear, V (kips)	: 3.48
Response Modification Factors, R	: Rigid Frames = 3.00 : SW Wind Bents = 3.00 : EW X–Bracing = 3.00
Seismic Response Coefficient, Cs	: Rigid Frames = 0.1127 : EW X–Bracing = 0.1127 : SW Wind Bents = 0.1127
Analysis Procedure Used	: Equivalent Lateral Force Procedure
Other Loads/Requirements	: N/A

BUILDING DESCRIPTION:

Width (ft)	: 55
Length (ft)	: 65
Eave Ht. at BSW (ft)	: 20
Eave Ht. at FSW (ft)	: 20
Roof Slope at BSW	: 1.0:12
Roof Slope at FSW	: 1.0:12
Bay Spacing (ft)	: 1 at 20.25 1 at 19.25 1 at 25.50

COVERING AND TRIMS:

Roof Panels & Trims

Panel Type	: 26 Ga. 'PBR'
Panel Color	: Burnished Slate
Trim Colors	
Eave Trim	: LightStone
Eave Gutter	: LightStane
Gable Trim	: LightStone

Wall Panel & Trims

Panel Type	: 26 Ga. 'PBR'
Panel Color	: LightStone
Trim Colors	
Corner Trims	: LightStone
Opening Trims	: LightStone
Downspouts	: LightStone
Base Trim	: LightStone
Mas. Flash	: N/A

Special Requirements:

1. 26GA. 'PBM' WALL LINER PANEL SOLAR WHITE

2.6 The BUYER/END USE CUSTOMER is responsible for overall project coordination. All interface, compatibility, and design considerations concerning any materials not furnished by R.G.B. and R.G.B. steel system are to be considered and coordinated by the BUYER/END USE CUSTOMER. Specific design criteria concerning this interface between materials must be furnished before release for fabrication or R.G.B. assumptions will govern (Section 4 and Commentary, AISC Code of Standard Practice, 9th Edition)

2.7 It is the responsibility of the BUYER/END USE CUSTOMER to insure that R.G.B. plans comply with the applicable requirements of any governing building authorities. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that R.G.B. or its design engineers are acting as the engineer of record or design professional for a construction project. These drawings are sealed only to certify the design of the structural components furnished by R.G.B.

2.8 The BUYER/END USE CUSTOMER is responsible for setting of anchor bolts and erection of steel in accordance with R.G.B. "For Construction" drawings only. Temporary supports such as guys, braces, falsework, cribbing or other elements required for the erection operation shall be determined furnished and installed by the erector. No items should be purchased from a preliminary set of drawings, including anchor bolts. Use only final "FOR CONSTRUCTION DRAWINGS" for this use. (Section 7 AISC Code of Standard Practice, 9th Edition.)

2.9 Rigid Global Buildings is responsible for the design of the anchor bolt to permit the transfer of forces between the base plate and the anchor bolt in shear, bearing and tension, but is not responsible for the transfer of anchor bolt forces to the concrete or the adequacy of the anchor bolt in relation to the concrete.
Unless otherwise provided in the Order Documents, R.G.B. does not design and is not responsible for the design, material and construction of the foundation or foundation embedments. The END USE CUSTOMER should insure himself that adequate provisions are made in the foundation design for loads imposed by column reactions of the building, other imposed loads, and bearing capacity of the soil and other conditions of the building site.
It is recommended that the anchorage and foundation of the building be designed by a Registered Professional Engineer experienced in the design of such structures. (Section A10 1996 MBMA Low Rise Building Systems Manual)

2.10 Normal erection operations include the corrections of minor misfits by moderate amounts of reaming, chipping, welding or cutting, and the drawing of elements into line through the use of drift pins. Errors which cannot be corrected by the foregoing means or which require major changes in member configuration are to be reported immediately to R.G.B. by the BUYER/END USE CUSTOMER, to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others. (Section 7 AISC Code of Standard Practice, 9th Edition)

2.11 Neither the fabricator nor the BUYER/END USE CUSTOMER will cut, drill or otherwise alter his work, or the work of other trades, to accommodate other trades, unless such work is clearly specified in the contract documents. Whenever such work is specified, the BUYER/END USE CUSTOMER is responsible for furnishing complete information as to materials, size, location and number of alterations prior to preparation of shop drawings. (Section 7 AISC Code of Standard Practice, 9th Edition)

2.12 WARNING In no case should Galvalume steel panels be used in conjunction with lead or copper. Both lead and copper have harmful corrosive effects on the Galvalume alloy coating when they are in contact with Galvalume steel panels. Even run–off from copper flashing, wiring, or tubing onto Galvalume should be avoided.

2.13 SAFETY COMMITMENT Rigid Global Buildings has a commitment to manufacture quality building components that can be safely erected. However, the safety commitment and job site practices of the erector are beyond the control of R.G.B.
It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site. Local, State, and Federal safety and health standards should always be followed to help insure workers safety. Make certain all employees know the safest and most productive way of erecting a building. Emergency procedures should be known to all employees.
Daily meetings highlighting safety procedures are also recommended. The use of hard hats, rubber sole shoes for roof work, proper equipment for handling material, and safety nets where applicable, are recommended.

2.14 Roof drainage systems (gutter, downspouts, etc.) must be free of any obstruction to ensure smooth operation at any given time.

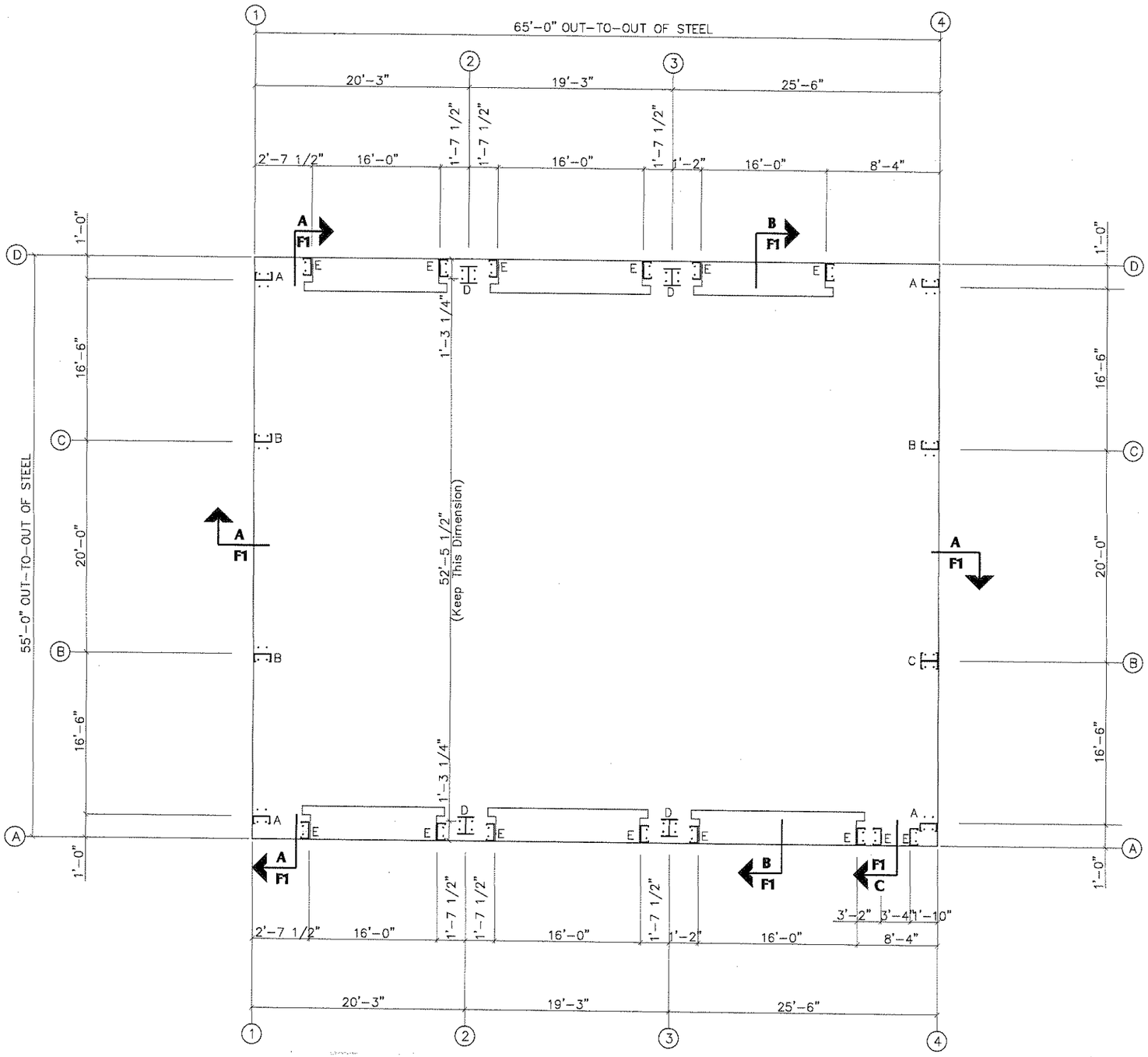
2.15 It is recommended by Factory Mutual (Reference: 82.44) that roofs be cleared of snow when half of the maximum snow depth is reached. The maximum snow depth can be estimated based on the design snow load and the density of snow and/or ice buildup. See Chart below.

ROOF SNOW LOAD (IN PSF)	EQUIVALENT SNOW HEIGHT AT ROOF (IN INCHES)	RECOMMENDED SNOW HEIGHT WHEN SNOW REMOVAL SHOULD START (IN INCHES)
20	16.60	8.30
25	17.25	8.62
30	17.90	8.95
35	18.55	9.28
40	19.20	9.60
45	19.85	9.92
50	20.50	10.25
55	21.15	10.58
60	21.80	10.90
65	22.45	11.22
70	23.10	11.55
75	23.75	11.88
80	24.40	12.20

NOTE:
For Snow/Ice Removal Procedure, Refer to Metal Building System Manual 2002 Edition, Section A8.4, Page XI–A8–2.

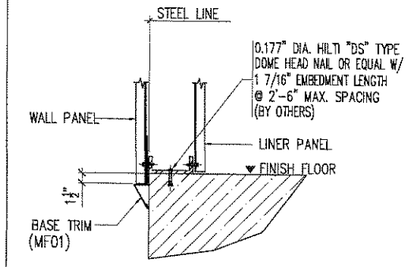
SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT RIGID GLOBAL ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY RIGID IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL, AND MECHANICAL SYSTEMS, AND/OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN RIGID ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.

CUSTOMER: FCI Constructors,Inc					
SALES NO.: 40901	JOB NO.: 96730	BLDG.: A (Main)	DWG. NO.: C1 OF 1	ISSUE: 0	

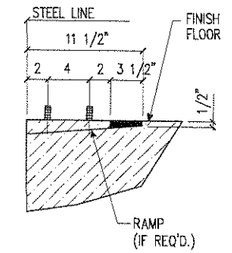


COLUMN LAYOUT PLAN

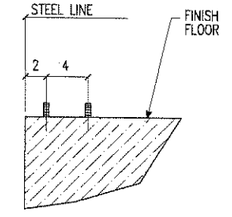
NOTE: All Base Plates @ 100'-0" (U.N.)



A **SECTION**



B **SECTION**



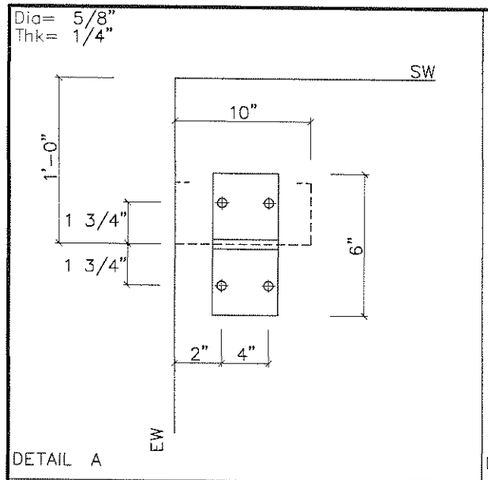
C **SECTION**

ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	07.17.12	ESB	NGD	ECB

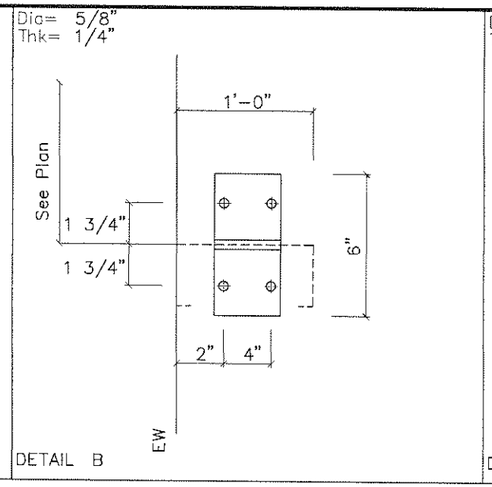
RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9064

DESCRIPTION	**ANCHOR BOLT PLAN**
CUSTOMER	FCI Constructors,Inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

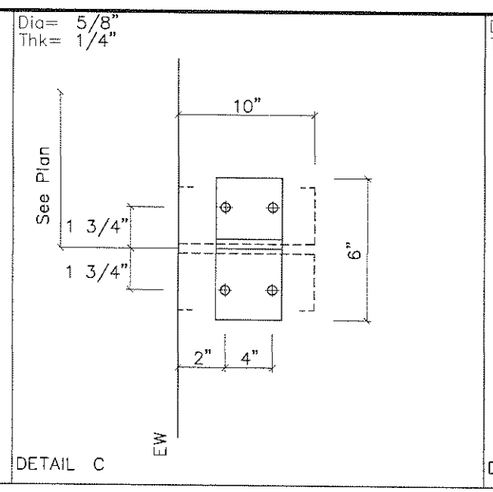
DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO.: 40901	JOB NO.: 96730	BLDG.: A (Main)	DWG NO.: F001 ISSUE: 0



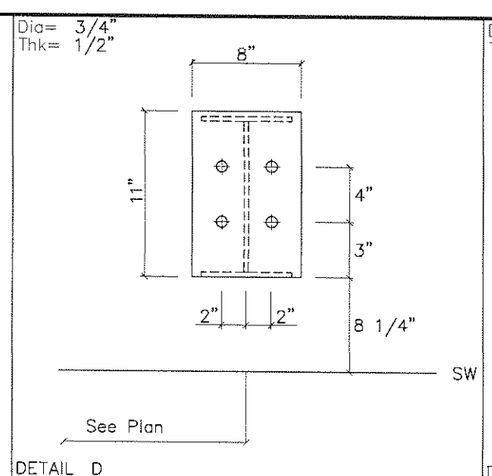
DETAIL A



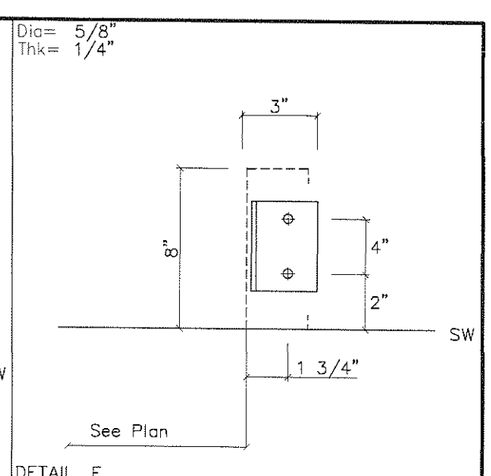
DETAIL B



DETAIL C



DETAIL D



DETAIL E

GENERAL NOTES:

① THE ANCHOR BOLT DETAILS SHOWN ON THIS DRAWING LOCATE THE ANCHOR BOLTS IN REFERENCE TO BOTH THE BUILDING STEEL LINE AND THE OUTSIDE OF RIGID'S SUGGESTED PANEL RECESS OF 1-1/2".

② THE ANCHOR BOLT SETTING PLAN LOCATES ANCHOR BOLTS IN REFERENCE TO THE OUTSIDE OF THE PANEL RECESS SHOWN. IF THE ACTUAL PANEL RECESS IS DIFFERENT FROM WHAT IS SHOWN ON THE ANCHOR BOLT SETTING PLAN, THEN ALL REFERENCE DIMENSIONS FROM THE OUTSIDE OF THE PANEL RECESS MUST BE DETERMINED BY THE CUSTOMER.

③ BOTTOM OF ALL BASE PLATES ARE AT THE SAME ELEVATION. (UNLESS NOTED)

NOTE:

ONLY ANCHOR BOLTS SETTING PLAN ISSUED & STAMPED "FOR CONSTRUCTION" SHALL BE USED IN SETTING ANCHOR BOLTS. 'RIGID GLOBAL BUILDINGS' SHALL NOT BE RESPONSIBLE FOR ERROR OR DISCREPANCY IF THE DRAWING USED IS NOT VALID FOR CONSTRUCTION.

QTY.	SYMBOL	DIA.	PROJ
	+	1/2"	1"
60	⊕	5/8"	2"
16	⊕	3/4"	2 1/2"
	⊕	7/8"	2 3/4"
	⊕	1"	3"
	⊕	1 1/8"	3 1/2"
	⊕	1 1/2"	3 1/2"

ANCHOR BOLT DETAIL

ANCHOR BOLT PROJECTION "PROJ." IS MEASURED FROM BOTTOM OF BASE PLATE

LENGHT OF "PROJ." SHOWN IS FOR ONE NUT + ONE WASHER

DETAIL OF ANCHOR BOLT AS PER THE SUPPLIER

NUTS & WASHERS BY SUPPLIER

ANCHOR BOLTS NOT BY RIGID GLOBAL BUILDINGS

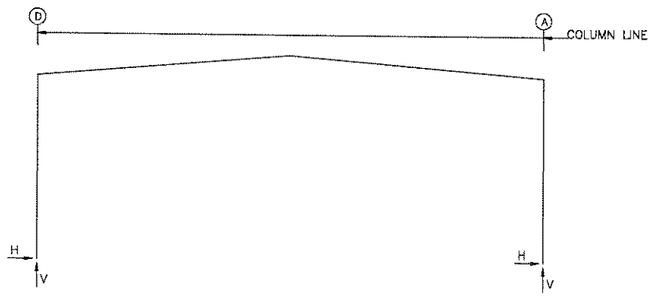
ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	07.17.12	ESB	NGD	ECB

RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9094

DESCRIPTION	**ANCHOR BOLT DETAILS**
CUSTOMER	FCI Constructors,Inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO.: 40901	JOB NO.: 96730	BLDG.: A (Main)	DWG. NO.: F002 ISSUE: 0

FRAME LINES: 2 3



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column Reactions (k) Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin	Anc. Bolt Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	Grout (in)
2*	D	1	9.7	22.7	2	-4.6	-7.2	4	0.750	8.000	11.00	0.500	0.0
					4	-1.1	-12.0						
2*	A	3	4.6	-7.2	1	-9.7	22.7	4	0.750	8.000	11.00	0.500	0.0
		1	-9.7	22.7	5	1.1	-12.0						

2* Frame lines: 2 3

NOTES FOR REACTIONS

1. All loading conditions are examined and only maximum/minimum H or V and the cooresponding H or V are reported.
2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
4. Building reactions are based on the following building data.

Width (ft)	: 55
Length (ft)	: 65
Eave Height (ft)	: 20 / 20
Roof Slope (rise/12)	: 1.0:12 / 1.0:12
Design Code	: IBC 09
Enclosure	: Closed
Dead Load (psf)	: 2.270
Collateral Load (psf)	: 3
Wind Speed (mph)	: 90 mph
Wind Importance Factor	: 1.00
Wind Exposure	: C
Live Load (psf)	: 20.00
Frame Live Load (psf)	: 20
Ground Snow Load (psf)	: 30.000
Roof Snow Load (psf)	: 30
Snow Exposure	: 1.000
Snow Importance Factor	: 1.000
Thermal Factor	: 1.000
Seismic Importance Factor	: 1.00
Spectral Response Accel.	: Ss=0.330 :S1=0.072
Spectral Response Coeff.	: Sds=0.338 :Sd1=0.115
Seismic Coeff. (Fa*Ss)	: 0.507 :Fa=1.536
Seismic Design Category	: C

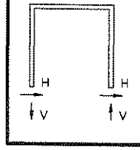
5. Loading conditions are:

1 DL+CL+SL+Slide
2 0.60DL+WL1
3 0.60DL+WR1
4 0.60DL+LnWnd1+LWIND1_L2E
5 0.60DL+LnWnd1+LWIND1_R2E
6 0.60DL+WL2+WS
7 0.60DL+WP+LnWnd1
8 DL+CL+0.75SL+0.75WR2+0.75WS+0.75Slide
9 0.60DL+WR2+WS
10 DL+CL+E1UNB_SL_L
11 DL+CL+E1UNB_SL_R
12 DL+CL+E2UNB_SL_L
13 DL+CL+E2UNB_SL_R

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	± Reactions (k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel Shear (lb/ft)
L_EW	1	D,C	1.6	1.8	0.6	0.7	
F_SW	A	Wind Bent In Wall					
R_EW	4	A,B	1.9	2.1	0.8	0.9	
B_SW	D	Wind Bent In Wall					

WIND BENT REACTIONS



Wall Loc	Wall Line	Col Line	± Reactions Wind(k) Horz	Wind Vert	Seismic(k) Horz	Seismic Vert
F_SW	A	2	1.9	3.6	0.9	1.7
F_SW	A	3	1.9	3.6	0.9	1.7
B_SW	D	3	1.9	3.6	0.9	1.7
B_SW	D	2	1.9	3.6	0.9	1.7

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_L1 Horiz	Wind_L1 Vert	Wind_R1 Horiz	Wind_R1 Vert
2*	D	0.8	2.4	0.8	1.9	5.4	12.3	8.1	18.5	-5.1	-8.6	-0.1	-5.2
2*	A	-0.8	2.4	-0.8	1.9	-5.4	12.3	-8.1	18.5	0.1	-5.2	5.1	-8.6

Frame Line	Column Line	Wind_L2 Horiz	Wind_L2 Vert	Wind_R2 Horiz	Wind_R2 Vert	LnWind1 Horiz	LnWind1 Vert	LnWind2 Horiz	LnWind2 Vert	Seismic_L Horiz	Seismic_L Vert	Seismic_R Horiz	Seismic_R Vert
2*	D	-4.8	-5.1	0.2	-1.7	-1.6	-12.1	-1.3	-8.6	-0.6	-0.4	0.6	0.4
2*	A	-0.2	-1.7	4.8	-5.1	1.6	-12.1	1.3	-8.6	-0.6	0.4	0.6	-0.4

Frame Line	Column Line	LnSeis Horiz	LnSeis Vert	LWIND1_L2E Horiz	LWIND1_L2E Vert	LWIND1_R2E Horiz	LWIND1_R2E Vert	LWIND2_L2E Horiz	LWIND2_L2E Vert	LWIND2_R2E Horiz	LWIND2_R2E Vert	F1UNB_SL_L Horiz	F1UNB_SL_L Vert
2*	D	0.0	-1.7	-0.1	-1.3	-0.2	-0.2	-0.1	-1.3	-0.2	-0.2	6.2	17.5
2*	A	0.0	-1.7	0.2	-0.2	0.1	-1.3	0.2	-0.2	0.1	-1.3	-6.3	9.8

Frame Line	Column Line	F1UNB_SL_R Horiz	F1UNB_SL_R Vert
2*	D	6.3	9.8
2*	A	-6.2	17.5

2* Frame lines: 2 3

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Rafter Wind_L Vert	Rafter Wind_R Vert	Brace Wind_L Horz	Brace Wind_L Vert	Brace Wind_R Horz	Brace Wind_R Vert	Wind_P Horz	Wind_S Horz
1	D	0.3	0.2	1.4	2.2	-1.4	-0.8	1.6	-3.1	0.0	1.0	-1.2	1.3
1	C	0.8	0.6	4.2	6.3	-3.8	-2.4	0.0	-2.1	1.6	-4.1	-2.5	2.8
1	B	0.8	0.6	4.2	6.3	-2.4	-3.8	0.0	-2.4	0.0	-3.8	-2.5	2.8
1	A	0.3	0.2	1.4	2.2	-0.8	-1.4	0.0	-0.8	0.0	-1.4	-1.2	1.3

Frm Line	Col Line	LnWind1 Vert	LnWind2 Vert	Seis_L Horz	Seis_L Vert	Seis_R Horz	Seis_R Vert	E1UNB_SL_L Horz	E1UNB_SL_L Vert	E1UNB_SL_R Horz	E1UNB_SL_R Vert	E1PAT_SL_3 Horz	E1PAT_SL_3 Vert
1	D	-1.0	-0.6	0.6	-0.7	0.0	0.8	0.0	2.2	0.0	0.6	0.0	1.2
1	C	-2.9	-1.7	0.0	0.7	0.6	-0.8	0.0	7.4	0.0	2.4	0.0	1.6
1	B	-2.9	-1.7	0.0	0.0	0.0	0.0	0.0	2.4	0.0	7.4	0.0	-0.2
1	A	-1.0	-0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.0	2.2	0.0	0.0

Frm Line	Col Line	E1PAT_SL_4 Horz	E1PAT_SL_4 Vert	E1PAT_SL_5 Horz	E1PAT_SL_5 Vert	E1PAT_SL_6 Horz	E1PAT_SL_6 Vert	-LWIND1_L- Horz	-LWIND1_L- Vert	-LWIND1_R- Horz	-LWIND1_R- Vert	-LWIND2_L- Horz	-LWIND2_L- Vert	-LWIND2_R- Horz	-LWIND2_R- Vert
1	D	0.0	0.0	0.0	1.0	0.0	-0.2	0.0	-0.4	0.0	0.0	0.0	-0.4	0.0	0.0
1	C	0.0	-0.2	0.0	3.4	0.0	1.5	0.0	-0.3	0.0	0.1	0.0	-0.3	0.0	0.1
1	B	0.0	1.6	0.0	1.5	0.0	3.4	0.0	0.1	0.0	-0.3	0.0	0.1	0.0	-0.3
1	A	0.0	1.2	0.0	-0.2	0.0	1.0	0.0	0.0	0.0	-0.4	0.0	0.0	0.0	-0.4

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Rafter Wind_L Vert	Rafter Wind_R Vert	Brace Wind_L Horz	Brace Wind_L Vert	Brace Wind_R Horz	Brace Wind_R Vert	Wind_P Horz	Wind_S Horz
4	A	0.4	0.3	1.8	2.7	-1.6	-0.9	1.9	-3.8	0.0	1.2	-1.2	1.3
4	B	1.0	0.8	5.3	7.9	-4.6	-2.9	0.0	-2.5	1.9	-5.0	-2.5	2.8
4	C	0.9	0.8	5.3	7.9	-2.9	-4.6	0.0	-2.9	0.0	-4.6	-2.5	2.8
4	D	0.4	0.3	1.8	2.7	-0.9	-1.7	0.0	-0.9	0.0	-1.7	-1.2	1.3

Frm Line	Col Line	LnWind1 Vert	LnWind2 Vert	Seis_L Horz	Seis_L Vert	Seis_R Horz	Seis_R Vert	E2UNB_SL_L Horz	E2UNB_SL_L Vert	E2UNB_SL_R Horz	E2UNB_SL_R Vert	E2PAT_SL_3 Horz	E2PAT_SL_3 Vert
4	A	-1.3	-0.7	0.8	-0.9	0.0	0.9	0.0	2.8	0.0	0.7	0.0	1.6
4	B	-3.6	-2.1	0.0	0.9	0.8	-0.9	0.0	9.2	0.0	3.0	0.0	2.1
4	C	-3.6	-2.1	0.0	0.0	0.0	0.0	0.0	3.0	0.0	9.2	0.0	-0.3
4	D	-1.3	-0.7	0.0	0.0	0.0	0.0	0.0	0.7	0.0	2.8	0.0	0.1

Frm Line	Col Line	E2PAT_SL_4 Horz	E2PAT_SL_4 Vert	E2PAT_SL_5 Horz	E2PAT_SL_5 Vert	E2PAT_SL_6 Horz	E2PAT_SL_6 Vert	-LWIND1_L- Horz	-LWIND1_L- Vert	-LWIND1_R- Horz	-LWIND1_R- Vert	-LWIND2_L- Horz	-LWIND2_L- Vert	-LWIND2_R- Horz	-LWIND2_R- Vert
4	A	0.0	0.1	0.0	1.3	0.0	-0.2	0.0	-0.6	0.0	0.0	0.0	-0.5	0.0	0.0
4	B	0.0	-0.3	0.0	4.2	0.0	1.9	0.0	-0.4	0.0	0.1	0.0	-0.4	0.0	0.1
4	C	0.0	2.1	0.0	1.9	0.0	4.2	0.0	0.1	0.0	-0.3	0.0	0.1	0.0	-0.3
4	D	0.0	1.6	0.0	-0.2	0.0	1.3	0.0	0.0	0.0	-0.6	0.0	0.0	0.0	-0.6

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column Reactions (k) Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin	Anc. Bolt Qty	Bolt Dia	Base Plate (in) Width	Length	Thick	Grout (in)
1	D	6	1.3	-3.0	7	-1.2	-0.8	4	0.625	6.000	6.000	0.250	0.0
		8	1.0	2.9	6	1.3	-3.0						
1	C	9	2.8	-3.7	7	-2.5	-2.5	4	0.625	6.000	6.000	0.250	0.0
		10	0.0	8.7	9	2.8	-3.7						
1	B	9	2.8	-3.3	7	-2.5	-2.5	4	0.625	6.000	6.000	0.250	0.0
		11	0.0	8.7	9	2.8	-3.3						
1	A	9	1.3	-1.2	7	-1.2	-0.8	4	0.625	6.000	6.000	0.250	0.0
		11	0.0	2.7	9	1.3	-1.2						
4	A	6	1.3	-3.6	7	-1.2	-1.0	4	0.625	6.000	6.000	0.250	0.0
		8	1.0	3.6	6	1.3	-3.6						
4	B	9	2.8	-4.4	7	-2.5	-3.1	4	0.625	6.000	6.000	0.250	0.0
		12	0.0	11.0	9	2.8	-4.4						
4	C	9	2.8	-4.0	7	-2.5	-3.1	4	0.625	6.000	6.000	0.250	0.0
		13	0.0	11.0	9	2.8	-4.0						
4	D	9	1.3	-1.5	7	-1.2	-1.0	4	0.625	6.000	6.000	0.250	0.0
		13	0.0	3.4	9	1.3	-1.5						

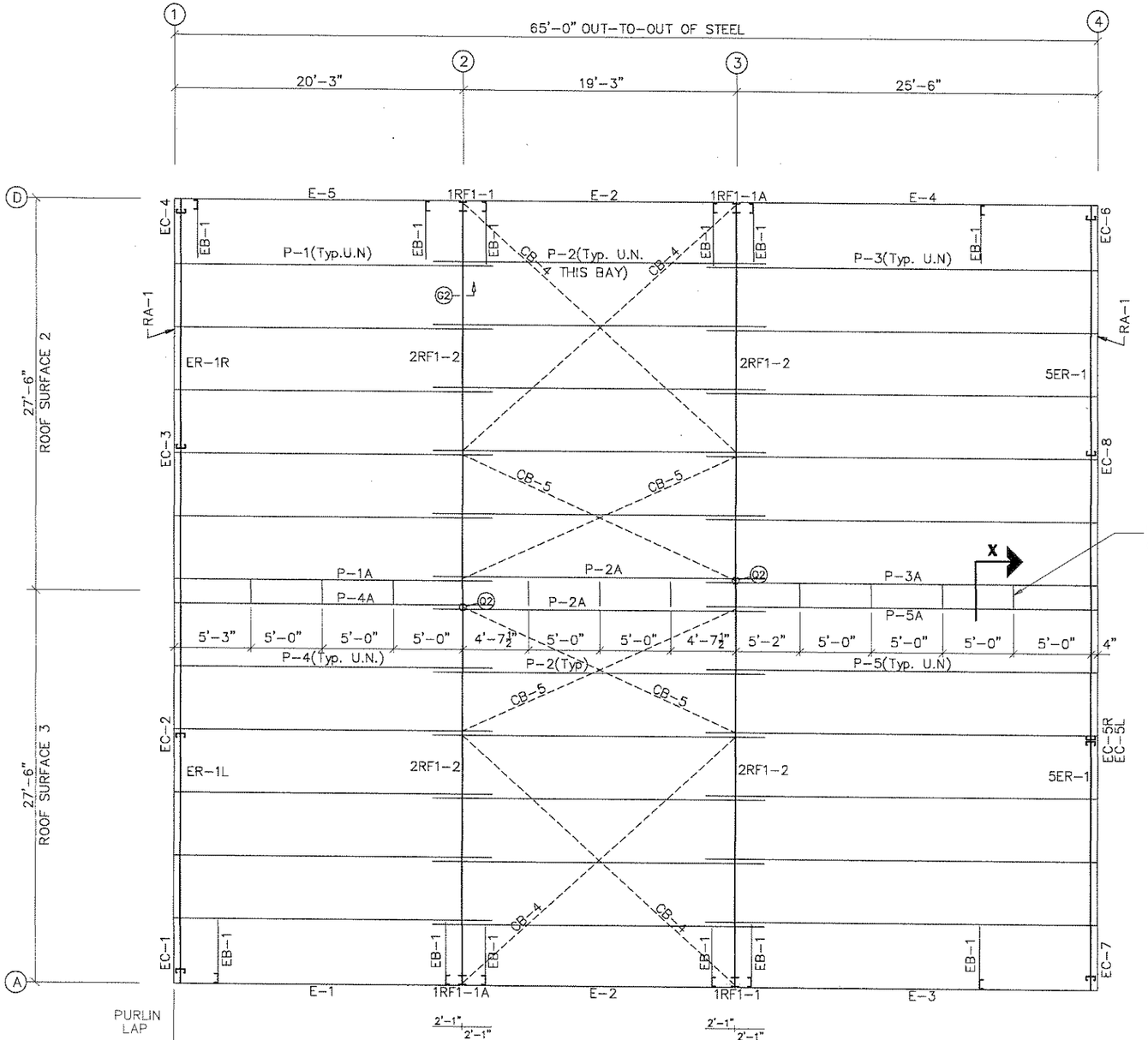
ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	07.17.12	ESB	NGD	ECB

RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9085
Fax : (281) 443-9064

DESCRIPTION	**ANCHOR BOLT REACTIONS**
CUSTOMER	FCI Constructors,Inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO.: 40901	JOB NO.: 96730	BLDG.: A (Main)	DWG. NO.: F003 ISSUE: 0

MEMBER TABLE ROOF PLAN	
MARK	PART
P-1/1A	10x35Z14
P-2/2A	10x35Z14
P-3/3A	10x35Z12
P-4/4A	10x35Z14
P-5/5A	10x35Z12
E-1	L10ES12
E-2	L10ES12
E-3	L10ES12
E-4	L10ES12
E-5	L10ES12
CB-4	CB0250
CB-5	CB0250

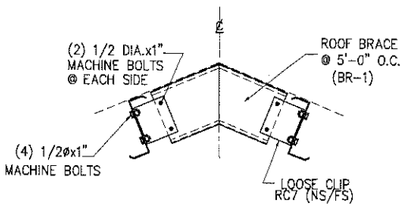


ROOF FRAMING PLAN

NOTE: 1. USE (4) – 1/2"ø A307 M. BOLTS @ PURLIN TO RAFTER CONNECTION ALONG FR.LN. 2 & 3

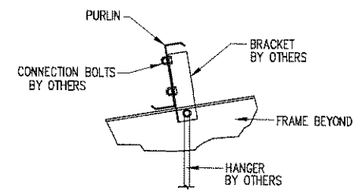
ROOF SHEETING PLAN

PANELS: 26 Ga. PBR – Burnished Slate



SECTION 'X'

ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.



NOTE:
COLLATERAL LOAD MUST BE SUSPENDED FROM THE WEB OF PURLINS AND NOT FROM THE PURLIN FLANGE.

TYP. COLLATERAL LOAD FIXING DETAIL

STL26A

ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	08.03.12	ESB	NGD	ECB

RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9064

DESCRIPTION	**ROOF FRAMING PLAN & ROOF SHEETING PLAN**
CUSTOMER	FCI Constructors,Inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO.: 40901	JOB NO.: 96730	BLDG.: A (Main)	DWG. NO.: E001 ISSUE: 0

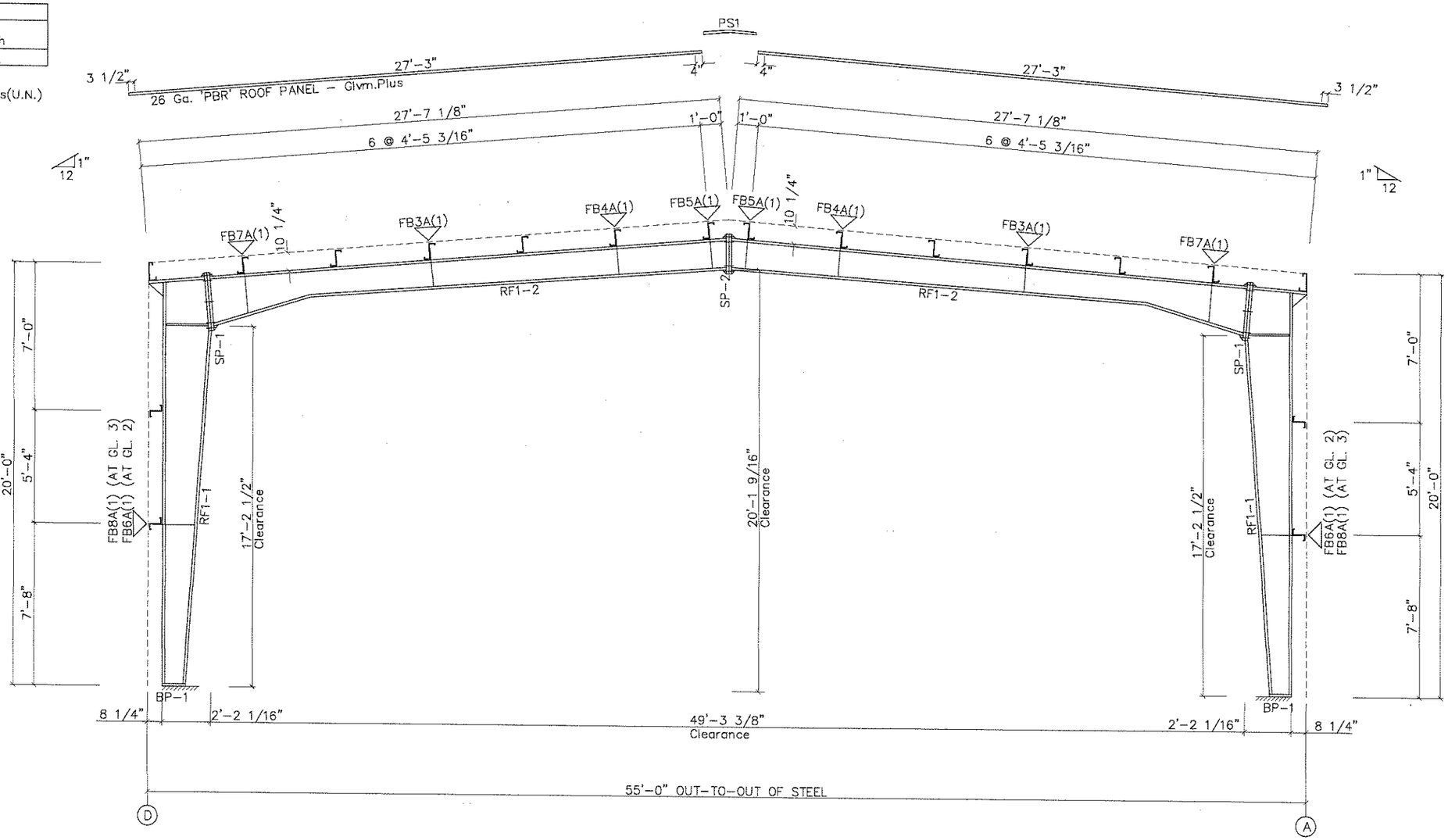
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	0.750	2.00	6"	1/2"	2'-8 3/8"
SP-2	4	4	0	A325	0.750	2.00	6"	1/2"	1'-9 7/8"

STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RF1-1	St- 1	2.910	0.313	16.98

BASE PLATE TABLE			
Col Mark	Plate Size Width	Thick	Length
BP- 1	8"	1/2"	11"

FLANGE BRACES: Both Sides(U.N.)
FBxxA(1)
A - L2x2x14

MEMBER TABLE				
Mark	Web Depth Start/End	Web Plate Thick	Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	10.0/25.5	0.188	202.7	6 x 1/4" x 229.7	6 x 5/16" x 203.2
	25.5/23.1	0.250	28.9	6 x 1/4" x 31.7	
RF1-2	25.5/13.0	0.188	57.9	6 x 1/4" x 57.9	6 x 5/16" x 59.2
	13.0/15.0	0.135	240.0	6 x 5/16" x 240.0	6 x 5/16" x 238.7



RIGID CROSS SECTION: FRAME LINE 2 3

(FOR RAFTERS AND COLUMN PIECE MARKS, REFER TO ROOF FRAMING PLAN, SIDEWALL AND ENDWALL FRAMING ELEVATIONS.)

ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	08.03.12	ESB	NGD	ECB

RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9085
Fax : (281) 443-9064

DESCRIPTION	RIGID CROSS SECTION
CUSTOMER	FCI Constructors,Inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

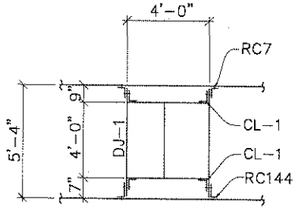
DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO.: 40901	JOB NO.: 96730	BLDG.: A (Main)	DWG. NO.: F002 ISSUE: 0

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-1*	4	A325	5/8"	1 3/4"
Columns/Raf	4	A325	1/2"	1 1/4"

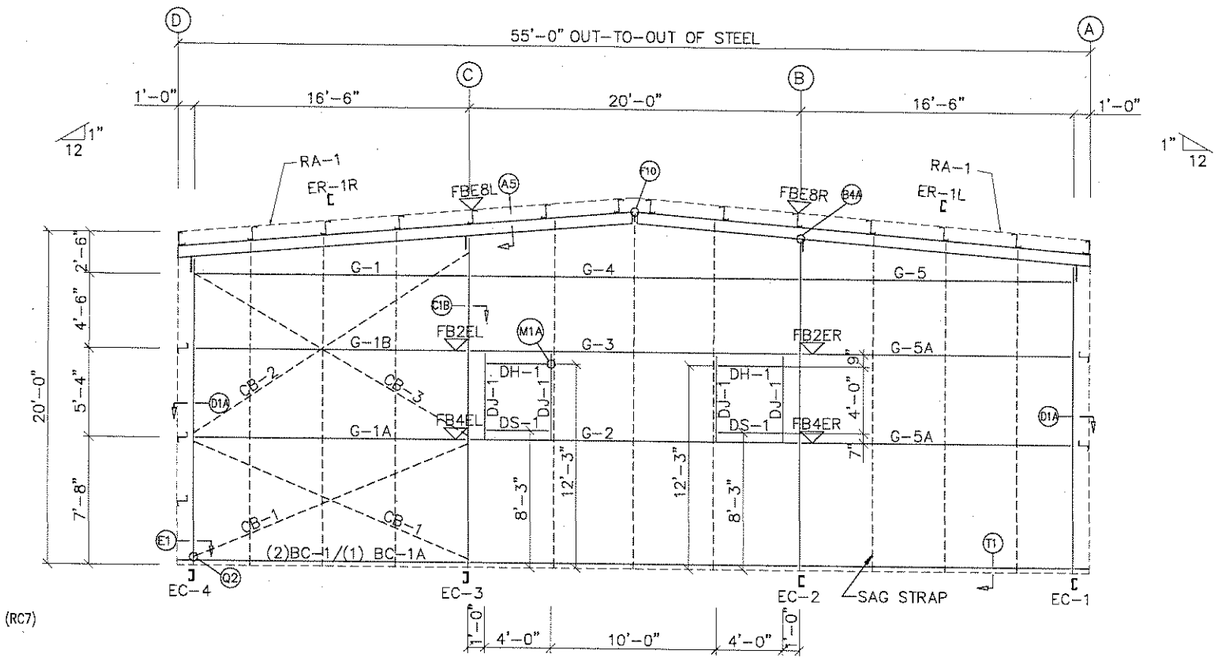
FLANGE BRACE TABLE FRAME LINE 1		
▽ID	MARK	LENGTH
1	FB2E	
2	FB4E	
	FBE8 L/R	1'-5 1/8"

MEMBER TABLE FRAME LINE 1	
MARK	PART
EC-1	10x35C14
EC-2	12x35C12
EC-3	12x35C12
EC-4	10x35C14
ER-1L	12x35C12
ER-1R	12x35C12
DJ-1	8x25C16
DH-1	8x25C16
DS-1	8x25C16
G-1	8x25Z16
G-2	8x25Z14
G-3	8x35Z16
G-4	8x25Z16
G-5	8x25Z16
BC-1_	8x2C16 (OPEN CEE)
CB-1	CB0250
CB-2	CB0250
CB-3	CB0250

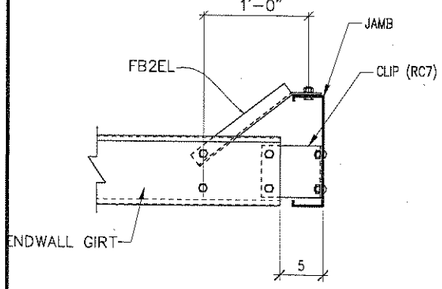
MEMBER TABLE FRAME LINE 1		
◇ID	MARK	LENGTH
1	JT01R	4'-3"
2	HT01R	4'-6"
3	ST01R	4'-3"



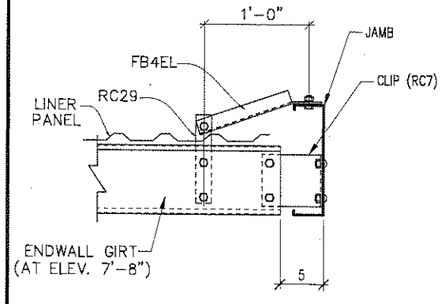
WINDOW F.O DETAIL
(TYP.)
(4 NOS. REQUIRED)



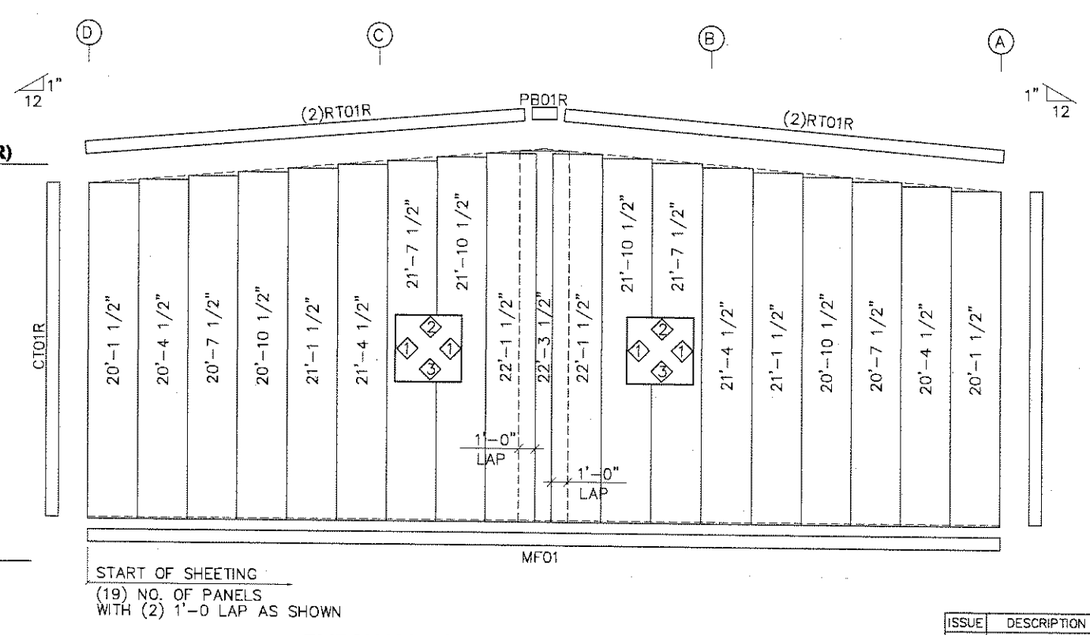
ENDWALL FRAMING: FRAME LINE 1



E.W GIRT WITH FLANGE BRACE DETAIL (W/O LINER)
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.



E.W GIRT WITH FLANGE BRACE DETAIL (W/ LINER)
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.



START OF SHEETING
(19) NO. OF PANELS
WITH (2) 1'-0 LAP AS SHOWN

ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PBR – Spec 2000 (Lightstone)

ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	08.03.12	ESB	NGD	ECB

RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9084

DESCRIPTION	ENDWALL FRAMING, SHEETING & TRIMS
CUSTOMER	FCI Constructors,Inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

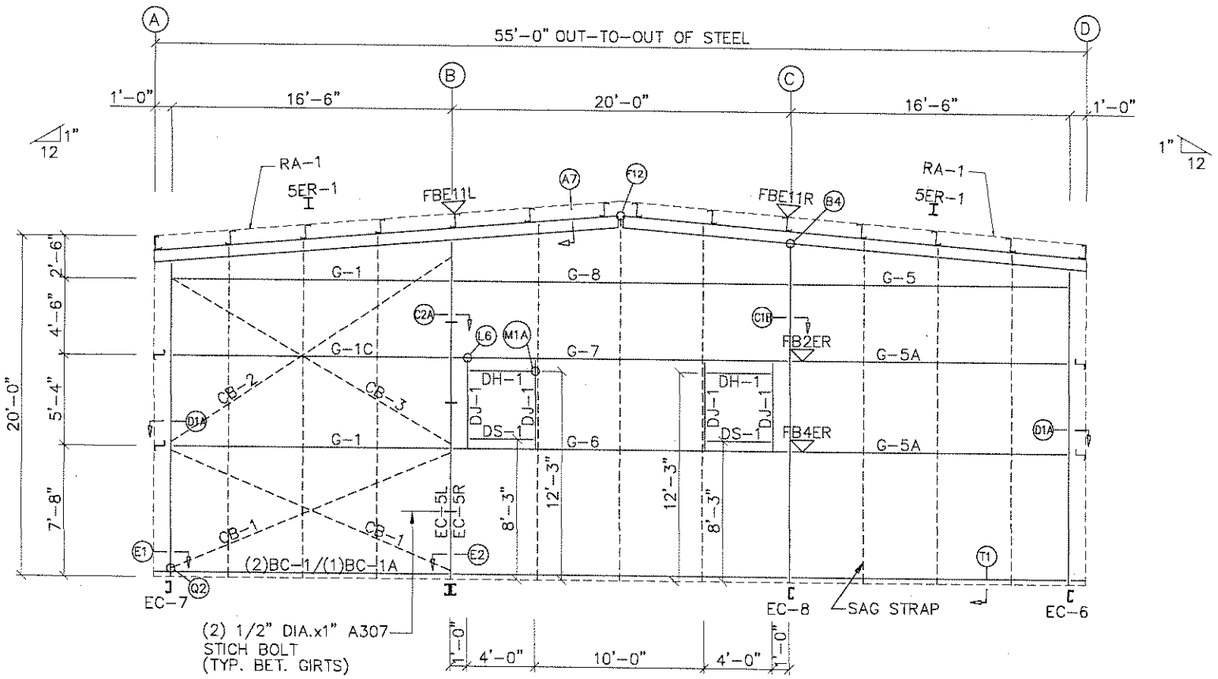
DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO.: 40901	JOB NO.: 96730	BLDG.: A (Main)	DWG. NO.: E003 ISSUE: 0

BOLT TABLE FRAME LINE 4				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1R/ER-1L	8	A325	5/8"	1 3/4"
Columns/Raf	4	A325	1/2"	1 1/4"

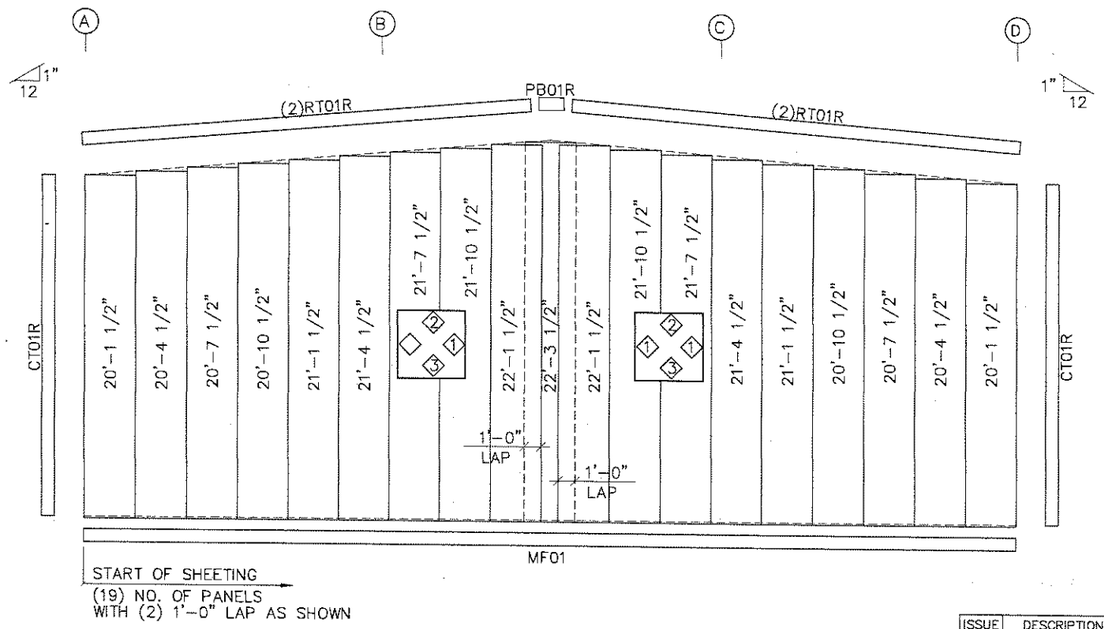
FLANGE BRACE TABLE FRAME LINE 4		
ID	MARK	LENGTH
1	FBE11R/L	1'-5 1/16"
2	FB2E	

MEMBER TABLE FRAME LINE 4	
MARK	PART
EC-7	10x35C14
EC-8	12x35C12
EC-6	10x35C14
EC-5	10x70D14
ER-1	W8x10
DJ-1	8x25C16
DH-1	8x25C16
DS-1	8x25C16
G-1	8x25Z16
G-5	8x25Z16
G-6	8x25Z14
G-7	8x35Z16
G-8	8x25Z16
BC-1	8x2□16 (OPEN CEE)
CB-1	CB0250
CB-2	CB0250
CB-3	CB0250

MEMBER TABLE FRAME LINE 4		
ID	MARK	LENGTH
1	JT01R	4'-3"
2	HT01R	4'-6"
3	ST01R	4'-3"



ENDWALL FRAMING: FRAME LINE 4



ENDWALL SHEETING & TRIM: FRAME LINE 4

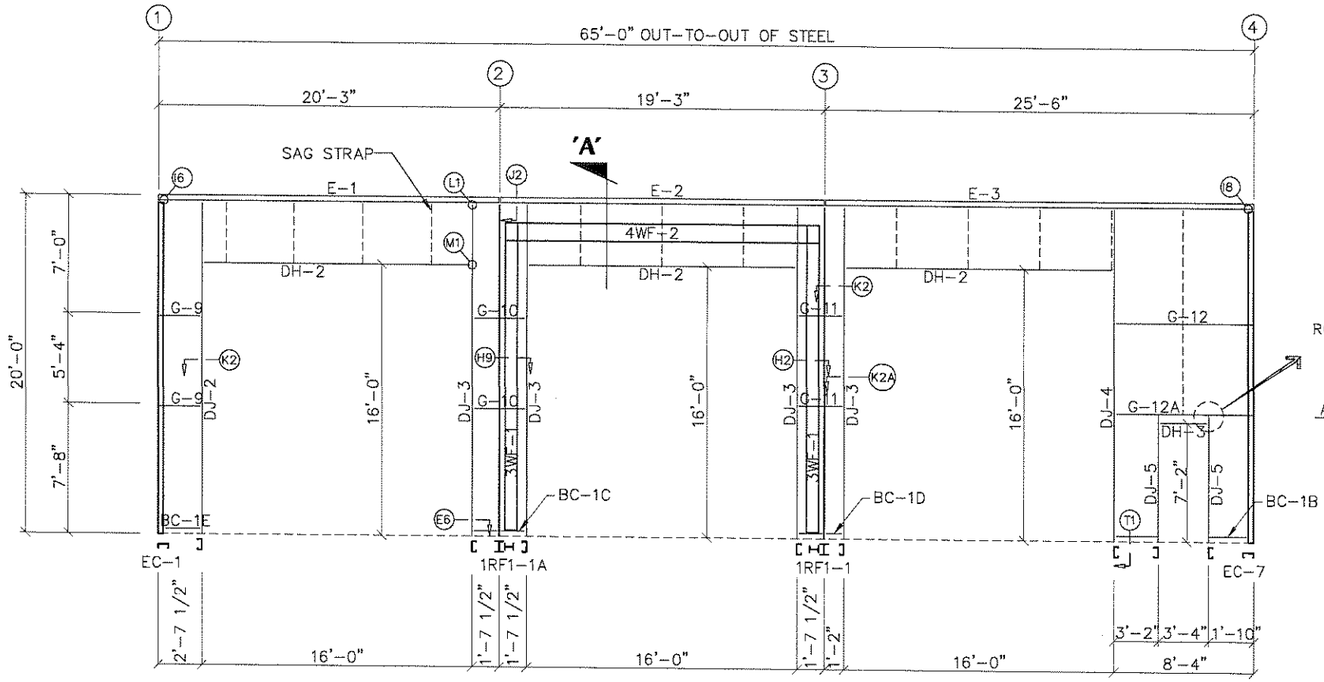
PANELS: 26 Ga. PBR – Spec 2000 (LIGHTSTONE)

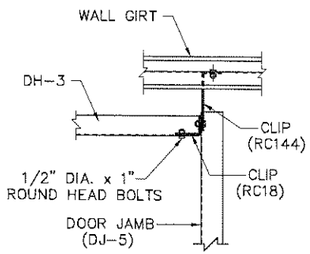
ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	08.03.12	ESB	NGD	ECB

RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9064

DESCRIPTION	**ENDWALL FRAMING, SHEETING & TRIMS**
CUSTOMER	FCI Constructors,inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO.: 40901	JOB NO.: 96730	BLDG.: A (Main)	DWG. NO.: E004 ISSUE: 0





ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.

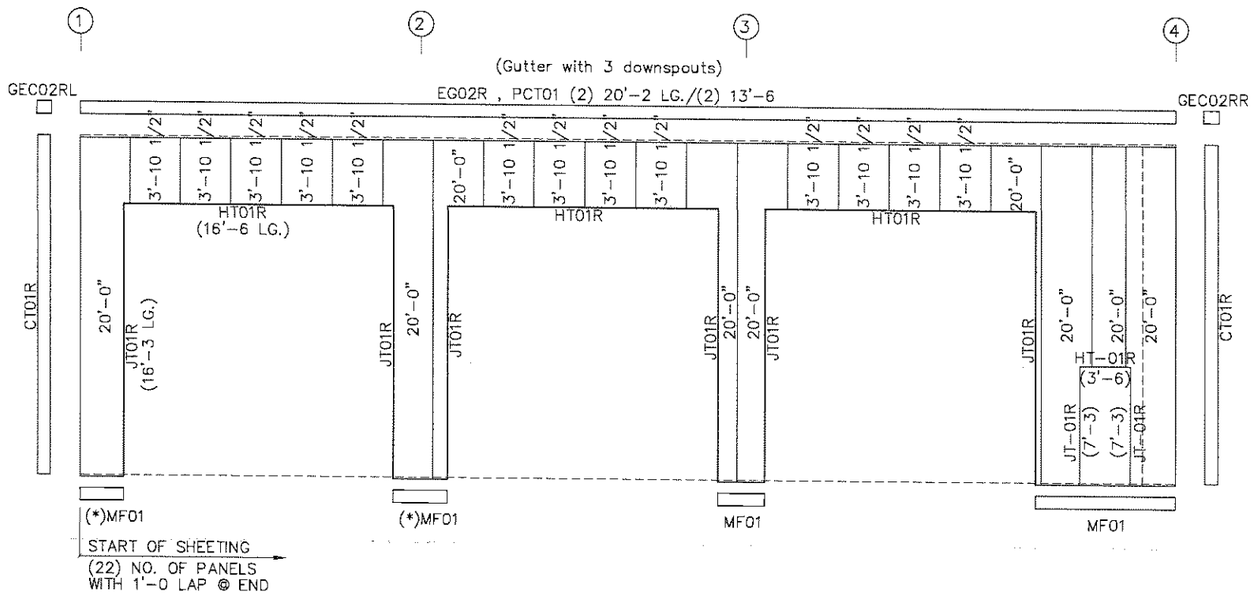
BOLT TABLE
FRAME LINE A

LOCATION	QUAN	TYPE	DIA	LENGTH
3WF-1 – 4WF-2	8	A325	5/8"	2"
3WF-1 – RF1-1	10	A325	5/8"	1 1/2"

MEMBER TABLE
FRAME LINE A

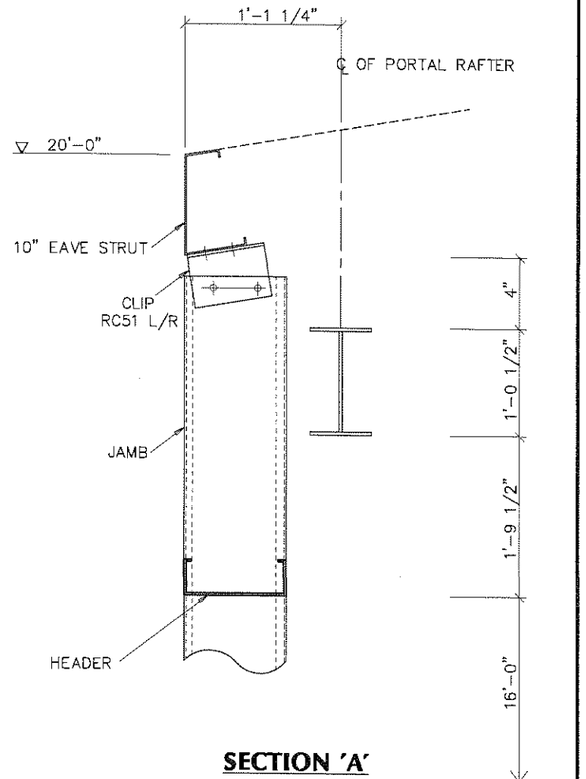
MARK	PART
WF-1	W08642
WF-2	W12642
DJ-2	8x25C12
DJ-3	8x25C16
DJ-4	8x35C12
DH-2	8x25C16
E-1	L10ES12
E-2	L10ES12
E-3	L10ES12
G-9	8x25Z16
G-10	8x25Z16
G-11	8x25Z16
G-12	8x25Z16
BC-1_	8x2C16 (OPEN CEE)

SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26Ga. PBR – Spec 2000 LIGHTSTONE
(*) FIELD CUT FROM 20'-2 LENGTH



SECTION 'A'

ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	08.03.12	ESB	NGD	ECB

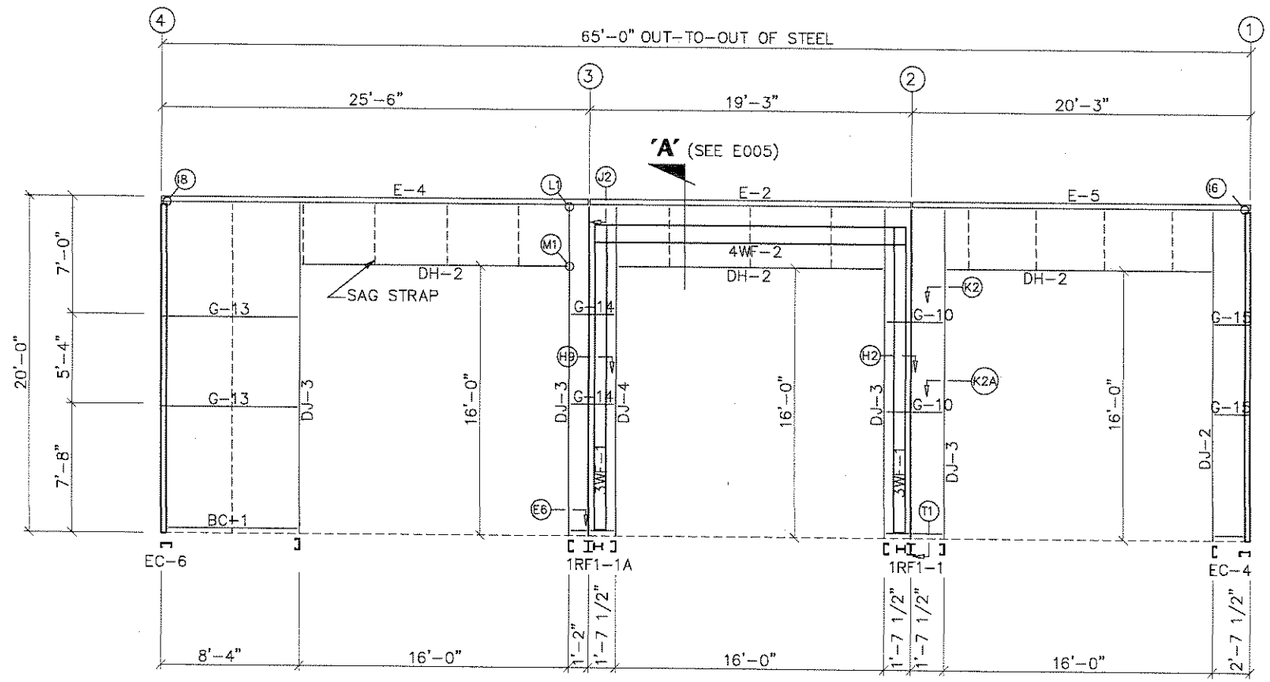
RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9064

DESCRIPTION	SIDEWALL FRAMING, SHEETING & TRIMS
CUSTOMER	FCI Constructors,Inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

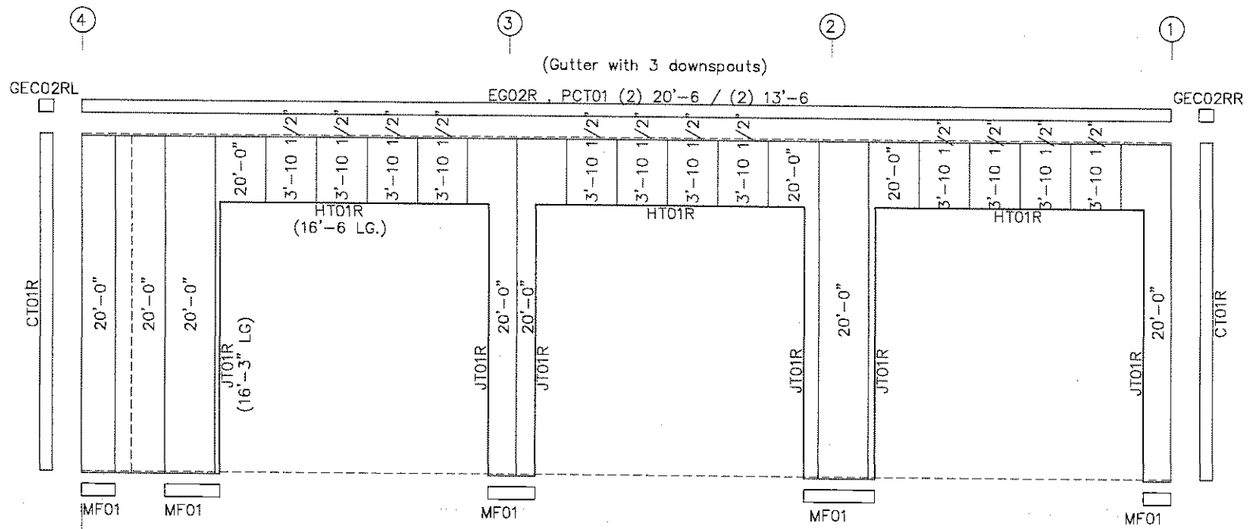
DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO. 40901	JOB NO. 96730	BLDG.: A (Main)	DWG. NO.: E005 ISSUE: 0

BOLT TABLE FRAME LINE D				
LOCATION	QUAN	TYPE	DIA	LENGTH
3WF-1 – 4WF-2	8	A325	5/8"	2"
3WF-1 – RF1-1	10	A325	5/8"	1 1/2"

MEMBER TABLE FRAME LINE D	
MARK	PART
WF-1	W08642
WF-2	W12642
DJ-2	8x25C12
DJ-3	8x25C16
DJ-4	8x35C12
DJ-5	8x25C16
DH-2	8x25C16
DH-3	8x25C16
E-2	L10ES12
E-4	L10ES12
E-5	L10ES12
G-13	8x25Z16
G-14	8x25Z16
G-15	8x25Z16
G-16	8x25Z16
G-17	8x25Z16
BC-1	8x2C16 (OPEN CEE)



SIDEWALL FRAMING: FRAME LINE D



SIDEWALL SHEETING & TRIM: FRAME LINE D

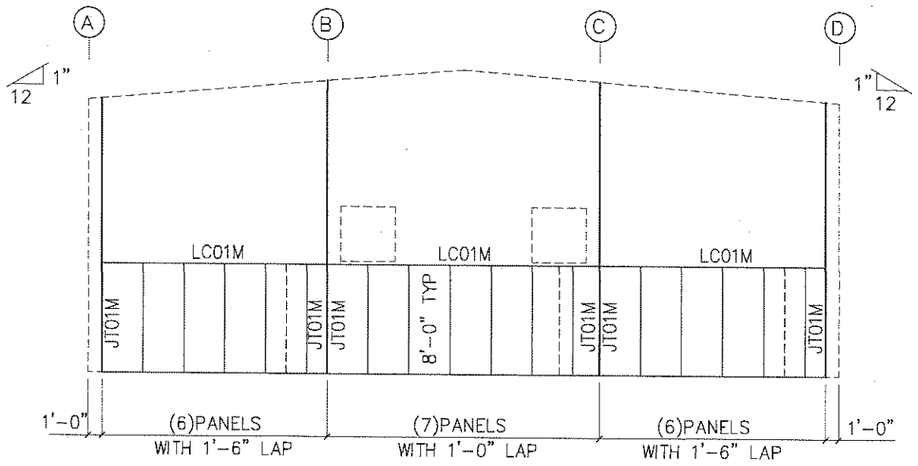
PANELS: 26 Ga. PBR – Spec 2000 LIGHTSTONE

ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	08.03.12	ESB	NGD	ECB

RIGID GLOBAL BUILDING
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9064

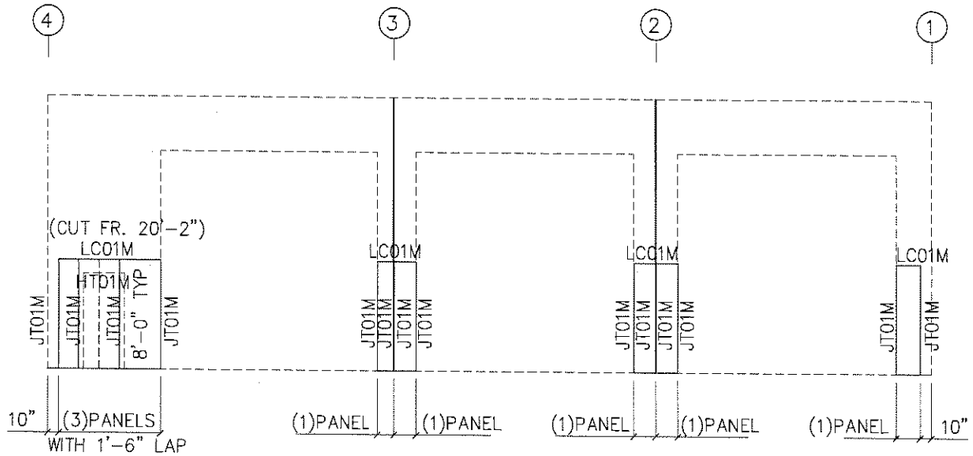
DESCRIPTION	**SIDEWALL FRAMING, SHEETING & TRIMS**
CUSTOMER	FCI Constructors,Inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO: 40901	JOB NO: 96730	BLDG: A (Main)	DWG. NO.: E006 ISSUE: 0



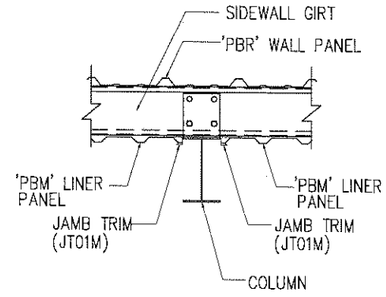
ENDWALL LINER SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PBM – Solar White
(As Viewed From Inside Of Building)



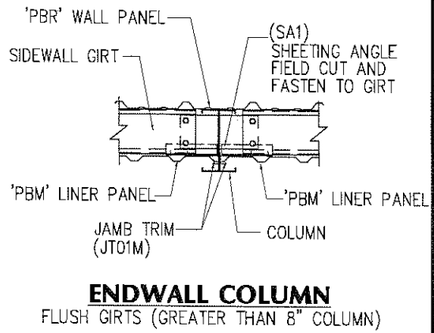
SIDEWALL LINER SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBM – Solar White
(As Viewed From Inside Of Building)



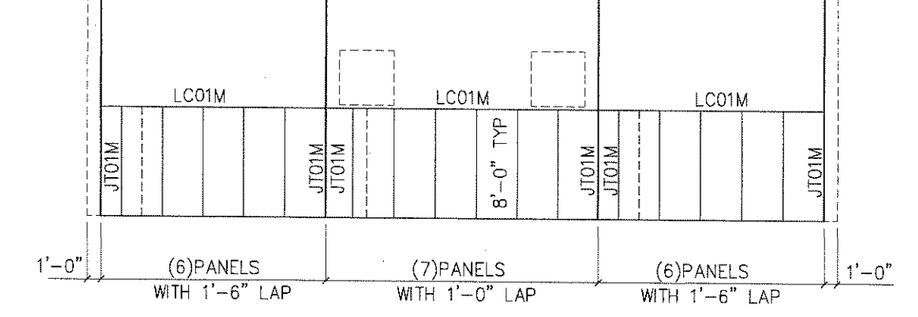
INTERIOR MAIN FRAME

BY-PASS GIRTS



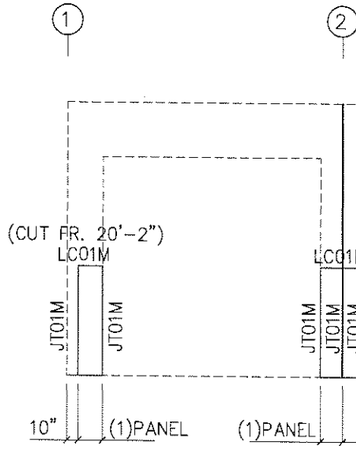
ENDWALL COLUMN

FLUSH GIRTS (GREATER THAN 8" COLUMN)



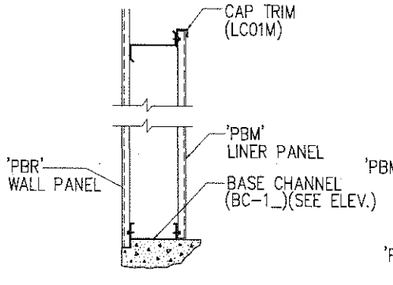
ENDWALL LINER SHEETING & TRIM: FRAME LINE 4

PANELS: 26 Ga. PBM – Solar White
(As Viewed From Inside Of Building)



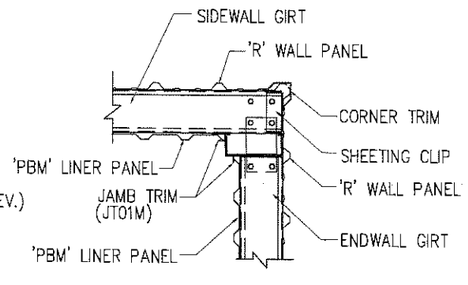
SIDEWALL LINER SHEETING & TRIM: FRAME LINE D

PANELS: 26 Ga. PBM – Solar White
(As Viewed From Inside Of Building)



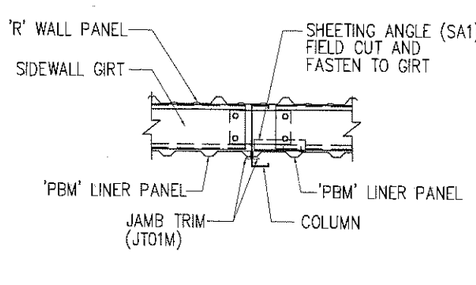
SECTION @ BASE

WITH BASE CHANNEL



BEARING END FRAME

FLUSH GIRTS (Cee-COLUMN)



ENDWALL COLUMN

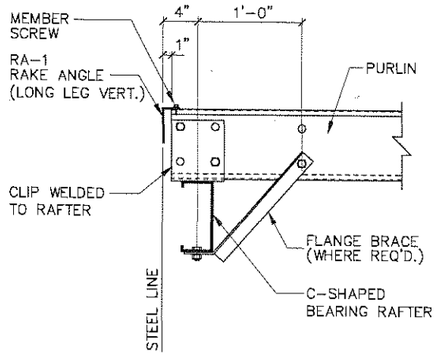
FLUSH GIRTS (GREATER THAN 8" COLUMN)

ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	08.03.12	ESB	NGD	ECB

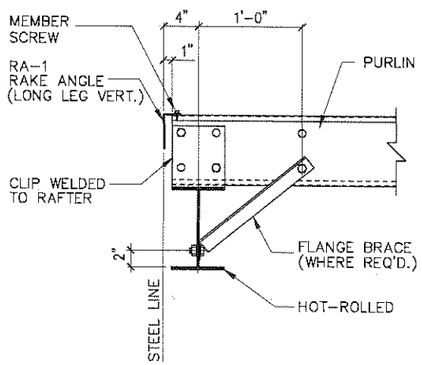
RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9064

DESCRIPTION	WALL LINER PANELS, TRIMS & DETAILS
CUSTOMER	FCI Constructors,inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

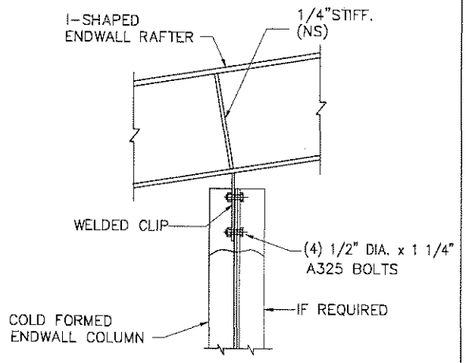
DRAWN BY	CHECKED BY	DESIGN BY	SCALE
MBS	MVL	ECB	NOT TO SCALE
SALES NO. 40901	JOB NO. 96730	BLDG. A (Main)	DWG. NO. E007 ISSUE 0



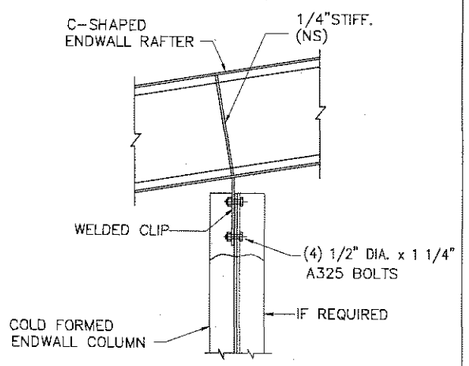
A5 **BEARING FRAME TO FLUSH ENDWALL**
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLT U.N.



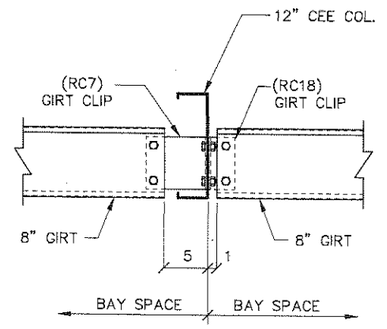
A7 **BEARING FRAME TO FLUSH ENDWALL**
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.



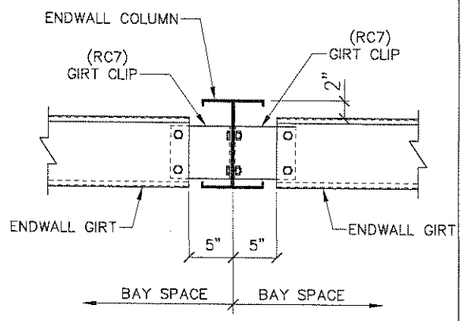
B4 **ENDWALL RAFTER TO COLUMN**
ALL BOLTS AS NOTED



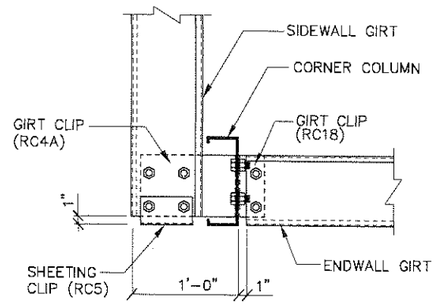
B4A **ENDWALL RAFTER TO COLUMN**
ALL BOLTS AS NOTED



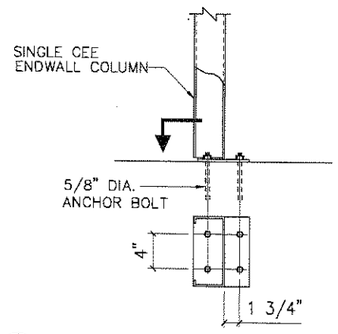
C1B **ENDWALL COLUMN TO WALL GIRT**
ALL BOLTS ARE 1/2" DIA. x 1" MACHINE BOLTS



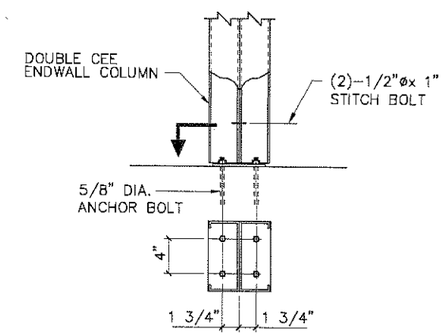
C2A **ENDWALL COLUMN TO WALL GIRT**
ALL BOLTS ARE 1/2" DIA. x 1" MACHINE BOLTS



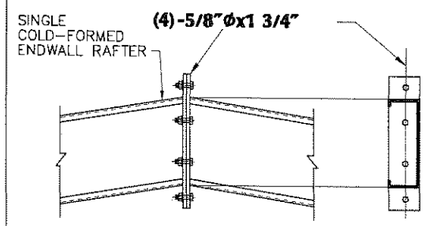
D1A **SINGLE CEE CORNER COLUMN**
ALL BOLTS ARE 1/2" DIA. x 1" MACHINE BOLTS



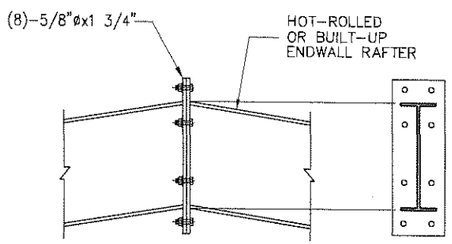
E1 **ENDWALL COLUMN BASE DETAIL**
ALL BOLTS AS NOTED



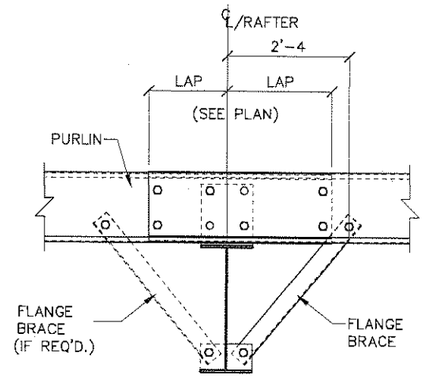
E2 **ENDWALL COLUMN BASE DETAIL**
ALL BOLTS AS NOTED



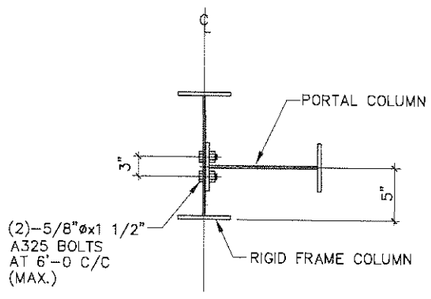
F10 **RAFTER SPLICE AT RIDGE SINGLE COLD-FORMED RAFTER**
SEE ENDWALL FRAMING ELEV. FOR BOLT DIA AND TYPE.



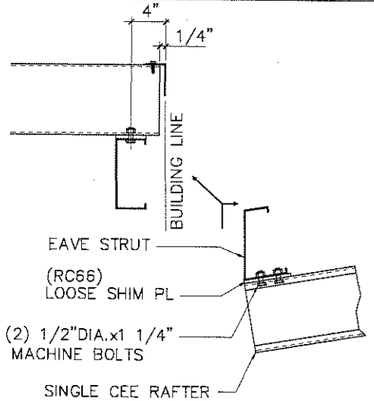
F12 **RAFTER SPLICE ALONG SURFACE HOT-ROLLED OR BUILT-UP RAFTER**
SEE ENDWALL FRAMING ELEV. FOR BOLT DIA AND TYPE.



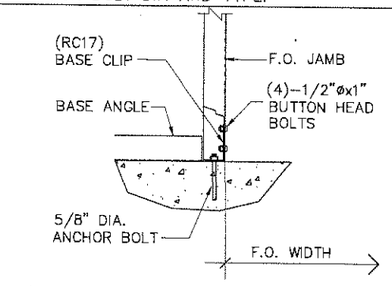
G2 **BY-PASS PURLIN TO RAFTER DETAIL**
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.



H9 **WIND BENT OR WIND COLUMN TO RIGID FRAME COLUMN CONN.**



I6 **EAVE STRUT TO ENDWALL RAFTER**
LEDS



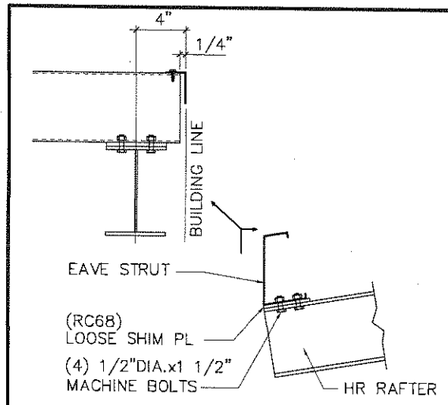
E6 **"FO" JAMB BASE DETAIL**
WITH BOLTED BASE CLIP

ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	08.03.12	ESB	NGD	ECB

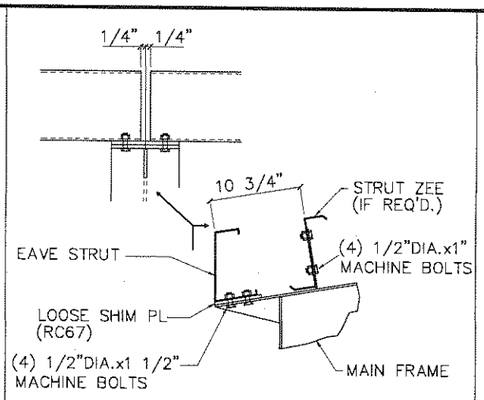
RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9064

DESCRIPTION	**DETAIL PAGE 1**
CUSTOMER	FCI Constructors,inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

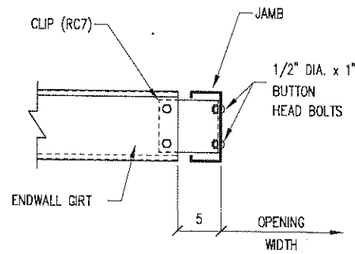
DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO: 40901	JOB NO: 96730	BLDG: A (Main)	DWG. NO.: F008 ISSUE: 0



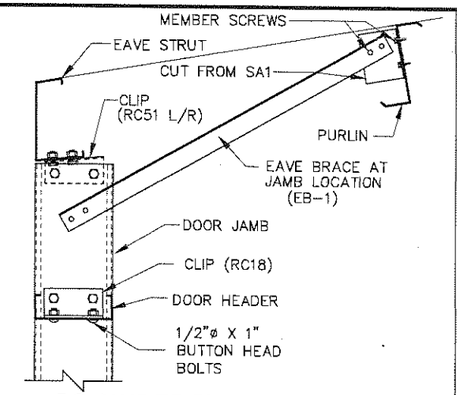
I8 **EAVE STRUT TO ENDWALL RAFTER**
LEDS



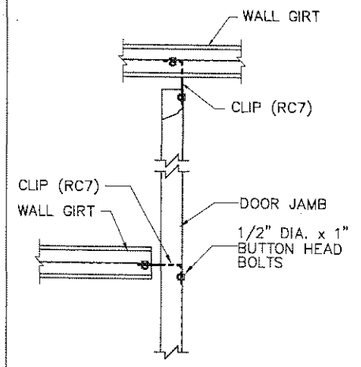
J2 **LOW EAVE DETAIL (BY-PASS CONDITION)**
LEDS AT INTERIOR FRAME



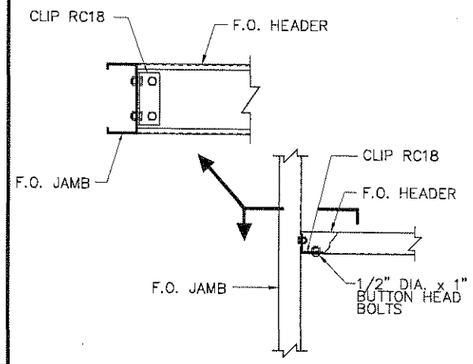
K2 **GIRT TO F.O. JAMB**
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.



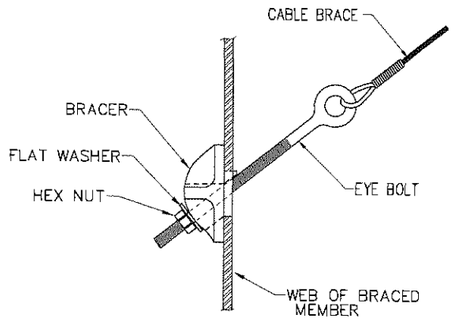
L1 **F.O. JAMB TO EAVE STRUT CONNECTION FOR OVERHEAD DOOR, ROLL-UP DOOR**
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.



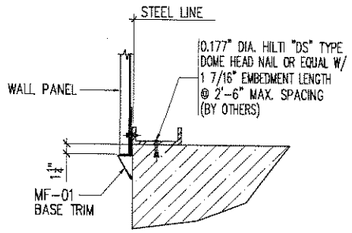
L6 **F.O. JAMB TO GIRT**
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.



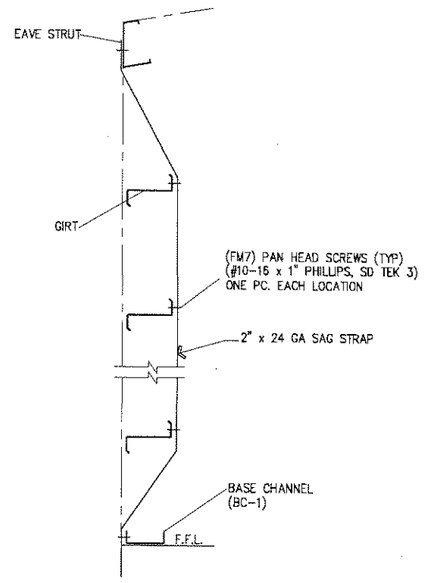
M1 **F.O. HEADER TO F.O. JAMB**
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.



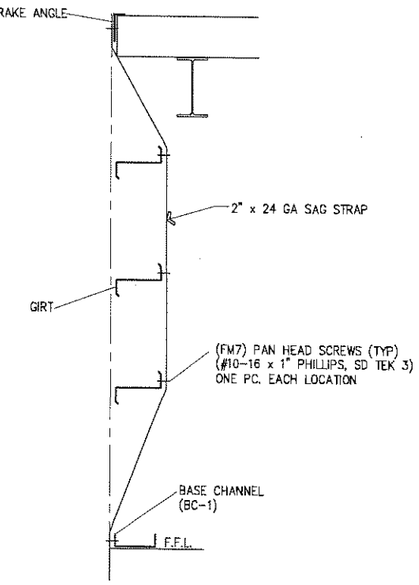
Q2 **DIAGONAL CABLE, EYEBOLT END**



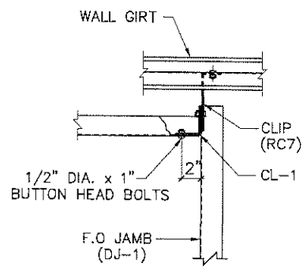
T1 **SECTION THRU WALL PANEL AND CONCRETE FOUNDATION**



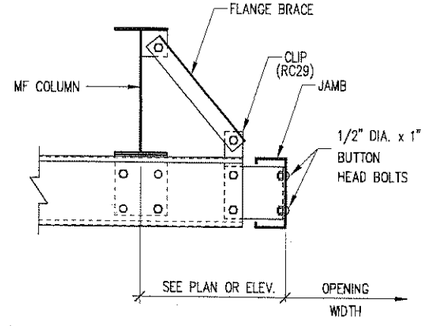
TYP. SAG STRAP DETAIL AT SIDEWALL



TYP. SAG STRAP DETAIL AT ENDWALL



M1A **F.O. HEADER TO F.O. JAMB**
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.



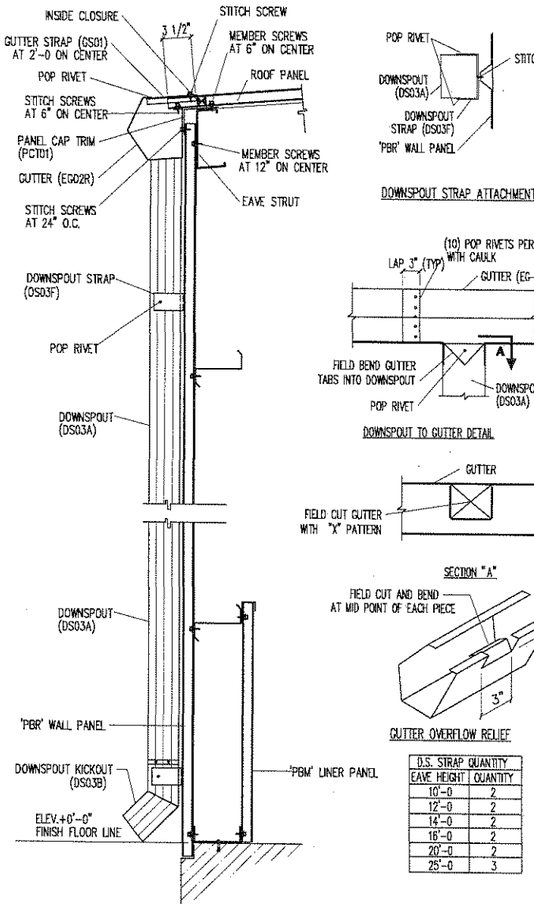
K2A **GIRT TO F.O. JAMB (AT 7'-8" GIRT ELEV.)**
ALL BOLTS ARE 1/2"ø x 1" MACHINE BOLTS U.N.

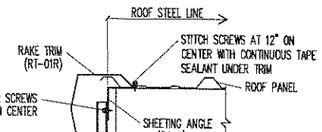
ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	08.03.12	ESB	NGD	ECB

RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9064

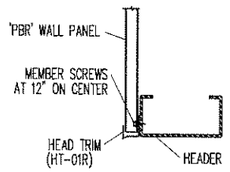
DESCRIPTION	**DETAIL PAGE 2**
CUSTOMER	FCI Constructors,Inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO. 40901	JOB NO. 96730	SIZE: A (Main)	DWG. NO.: E009 ISSUE: 0

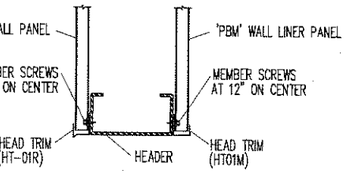




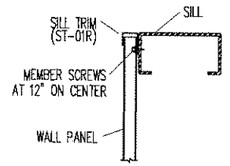
RAKE DETAIL WITH SHEETED WALL



HEADER DETAIL FOR FRAMED OPENINGS



HEADER DETAIL FOR FRAMED OPENINGS
(WITH LINER)

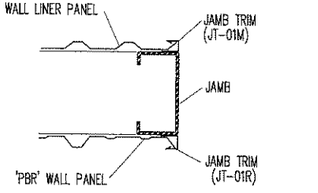


SILL DETAIL FOR FRAMED OPENINGS
(NOT FOR GLASS)

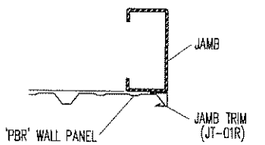
D.S. STRAP QUANTITY	
EAVE HEIGHT	QUANTITY
10'-0	2
12'-0	2
14'-0	2
16'-0	2
20'-0	2
25'-0	3

SCULTURED EAVE GUTTER AND DOWNSPOUT DETAIL AT SHEETED WALL
WITH FULLY SHEETED WALL

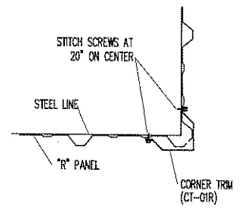
"FOR BUILDINGS IN AREAS WITH SNOW CONDITIONS, RGB RECOMMENDS THAT THE CUSTOMER UTILIZE SNOW RETENTION SYSTEMS SUCH AS SNOWJAX, SNOWBAR OR EQUIVALENT AND TO INSTALL HEATER SYSTEMS ON EAVE GUTTERS TO DETER SNOW BUILD-UP AND ICING CONDITION".
SNOW RETENTION AND HEATER SYSTEMS ARE NOT PROVIDED BY RGB.



JAMB DETAIL FOR FRAMED OPENINGS
(WITH LINER)

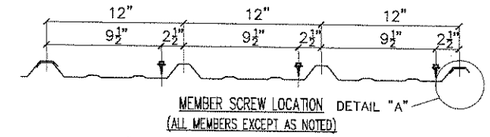


JAMB DETAIL FOR FRAMED OPENINGS

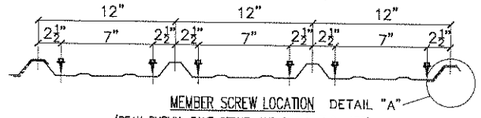


OUTSIDE CORNER DETAIL "PBR" PANEL

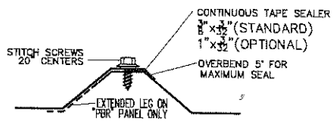
GUTTER & RAKE TRIM JOINT DETAIL
WITH TYPE-R ROOF PANEL



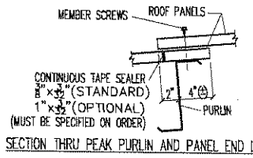
MEMBER SCREW LOCATION DETAIL "A"
(ALL MEMBERS EXCEPT AS NOTED)



MEMBER SCREW LOCATION DETAIL "A"
(PEAK PURLIN, EAVE STRUT, AND PANEL END LAPS)



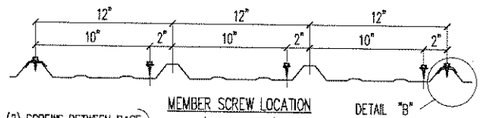
DETAIL "A"



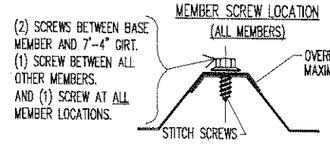
SECTION THRU PEAK PURLIN AND PANEL END LAPS

NOTE!
SCREW PATTERNS SHOWN, SATISFY UL-90 REQUIREMENTS FOR ROOF.

"PBR" ROOF PANEL

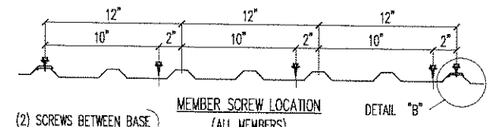


MEMBER SCREW LOCATION DETAIL "B"
(ALL MEMBERS)

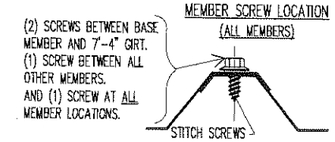


DETAIL "B"

"PBR" WALL PANEL



MEMBER SCREW LOCATION DETAIL "B"
(ALL MEMBERS)



DETAIL "B"

"PBM" WALL LINER PANEL

ISSUE	DESCRIPTION	DATE	DRN.	CHK	DES.
A	APPROVAL/PERMIT	06.20.12	MBS	MVL	ECB
0	CONSTRUCTION	08.03.12	ESB	NGD	ECB

RIGID GLOBAL BUILDINGS
18933 Aldine Westfield
Houston, Tx. 77073
Phone : (281) 443-9065
Fax : (281) 443-9064

DESCRIPTION	**PANEL PROFILES, TRIMS & ACCESSORIES**
CUSTOMER	FCI Constructors,Inc
END USER	City of Grand Junction
END USE	Fleet Services
LOCATION	971 Coffman Rd, Bldg. B Grand Junction, CO 81527

DRAWN BY:	CHECKED BY:	DESIGN BY:	SCALE:
MBS	MVL	ECB	NOT TO SCALE
SALES NO.: 40901	JOB NO.: 96730	BLDG.: A (Main)	DWG. NO.: E010 ISSUE: 0