



2970 N 10th St, Gering, NE 69341
(308) 635-2213 FAX (308) 635-0182

Web: www.paulreedconstruction.com
E-mail: prc@paulreedconstruction.com

**Inland Truck Parts Company
New Truck Service Center, North Platte NE**

Addendum #1

Location: Inland Truck Service Center
3820 South Newberry Access,
North Platte, NE

Issue Date; April 10, 2012

Description:

1. The hydronic in-floor heating system has been eliminated in the North Platte facility. This will also eliminate the Boiler Room that is immediately adjacent to the Fluid Storage Room.
2. All Bidders are required to submit a Subcontractor & Supplier List with their bid.
3. All Bidders will submit bids on their own company letterhead, with a detailed scope of work. A Bid Form will not be issued.

SEE ATTACHED "REVISED PLANS & SPECIFICATIONS"

SECTION 15891 – DUCTWORK, FLUES & ACCESSORIES

PART 1 - GENERAL

- 1.1 Related Documents
- 1.2 Description Of Work
- 1.3 Quality Assurance
- 1.4 Shop Drawings

PART 2 - PRODUCTS

- 2.1 Manufacturers
- 2.2 Ductwork Materials
- 2.3 Ductwork
- 2.4 Duct Liner
- 2.5 Miscellaneous Ductwork Materials
- 2.6 Ductwork Fabrication
- 2.7 Fire Dampers
- 2.8 Automatic Dampers
- 2.9 Louvers
- 2.10 Diffusers, Registers, & Grilles
- 2.11 Flues

PART 3 - EXECUTION

- 3.1 Installation of Metal Ductwork
- 3.2 Installation of Flexible Ducts
- 3.3 Diffusers, Registers, And Grilles
- 3.4 Spare Parts
- 3.5 Equipment Connections
- 3.6 Start-up

SECTION 15891 - DUCTWORK & ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specifications, apply to this section.
- B. The requirements as set forth in Section 15000, "BASIC MECHANICAL REQUIREMENTS" shall apply to this part of the work.

1.2 DESCRIPTION OF WORK:

- A. The extent of work by this section includes ductwork, liner, accessories, and flues.

1.3 QUALITY ASSURANCE:

A. Codes and Standards:

1. SMACNA Standards: Comply with SMACNA's "HVAC Duct Construction Standards", latest edition, for fabrication and installation of metal ductwork, liner, and accessories.
2. NFPA Compliance: Comply with NFPA 90A "Standard for the Installation of Air Conditioning and Ventilating Systems" and NFPA 90B "Standard for the Installation of Warm Air Heating and Air Conditioning Systems".
3. UL Compliance: Construct, test, and label fire dampers in accordance with UL Standard 555 "Fire Dampers and Ceiling Dampers".
4. ARI Compliance: Test and rate diffusers, registers, and grilles in accordance with ARI 650 "Standard for Air Outlets and Inlets".
5. ASHRAE Compliance: Test and rate diffusers, registers, and grilles in accordance with ASHRAE 70 "Method of Testing for Rating the Air Flow Performance of Outlets and Inlets".
6. Diffusers, registers, and grilles shall be tested and rated in accordance with ADC 1062 "Certification, Rating and Test Manual".

1.4 SHOP DRAWINGS:

- A. Submit the following information in accordance with, and in addition to other requirements of Section 15000, "BASIC MECHANICAL REQUIREMENTS".
 1. Performance data including noise criteria ratings, throw, pressure drop, etc. for the rated air flow.
 2. Submit scaled layout drawings of metal ductwork and fittings including, but not limited to, duct sizes, locations, elevations, slopes of horizontal runs, wall and floor penetrations, and types of connections. Scaled drawings shall be drawn at not less than 1/4" = 1'-0". Show

interface and spatial relationship between ductwork and proximate equipment. Show modifications of indicated requirements, made to conform to local shop practice, and how these modifications ensure that free area, materials, and rigidity are not reduced.

3. Record Drawings: At project closeout, submit record drawings of installed metal ductwork and accessories, in accordance with requirements of Section 15000, "BASIC MECHANICAL REQUIREMENTS".

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

A. Subject to compliance with requirements, provide one of the following manufacturers:

1. Factory-fabricated duct and fittings:
 - a) Semco Mfg., Inc.
 - b) United Sheet Metal Div. United McGill Corp.
 - c) Wesco, Inc.
2. Flexible duct:
 - a) Wiremold
 - b) Thermoflex
 - c) Clevaflex
3. Canvas connectors:
 - a) Ventglass by Ventfabrics
 - b) Elcen
4. Manual, backdraft, fire, and automatic dampers:
 - a) Ruskin Mfg. Co.
 - b) Safe-Aire Inc.
 - c) Air balance Inc.
5. Louvers:
 - a) Ruskin Mfg. Co.
 - b) American Warming & Ventilating Inc.
 - c) Construction Specialties, Inc.
 - d) Louvers & Dampers, Inc.
 - e) Safe-Aire Inc.
 - f) Carnes
6. Diffusers, registers and grilles:
 - a) Titus
 - b) E.H. Price
 - c) Amemostat

7. Flues:

- a) Metalbestos
- b) Metal-Fab

2.2 DUCTWORK MATERIALS:

- A. Exposed Ductwork Materials: Where ductwork is indicated to be exposed to view in occupied spaces, provide materials which are free from visual imperfections including pitting, seam marks, roller marks, stains and discolorations, and other imperfections.
- B. Sheet Metal: Except as otherwise indicated, fabricate ductwork from galvanized sheet steel complying with ASTM A 527, lock forming quality, with G 90 zinc coating in accordance with ASTM A 525; and mill phosphatized for exposed locations.

2.3 DUCTWORK:

- A. Except as otherwise indicated on the drawings, ductwork, metal gauges, reinforcing, etc. shall be constructed in accordance with SMACNA "HVAC Duct Construction Standards," latest edition for a 2 inch water gauge static pressure.
- B. All fittings shall be constructed in accordance with SMACNA "HVAC Duct Construction Standards," latest edition.

1. Rectangular Duct:

- a) Elbows, unless indicated otherwise shall be constructed with centerline radius of not less than 1.5 duct width or square elbow with double wall streamline vanes.
- b) Return air acoustical elbows shall be a square elbow with no turning vanes.
- c) Slopes for transitions or other changes in dimensions shall be minimum 1 to 3.

2. Round and Oval Spiral Seam Duct:

- a) Provide radius type fittings fabricated of multiple sections with maximum 15 degree change of direction per section. Unless specifically detailed otherwise, use 45 degree laterals for branch takeoff connections. Where 90 degree branches are indicated provide conical type tees.
- b) As an option, provide factory-fabricated duct and fittings, in lieu of shop-fabricated duct and fittings. All round ductwork shown exposed shall be factory-fabricated.
 - 1) Elbows: One piece construction for 90 degrees and 45 degree elbow 14" and smaller. Provide multiple gore construction for larger diameters with standing seam circumferential joint.
 - 2) Divided Flow Fittings: 90 degree tees, constructed with saddle tap spot welded and bonded to duct fitting body.

- C. All ductwork shall be sealed with a heavy mastic type sealant in accordance with "HVAC Duct Construction Standards," latest edition, seal class A.

- D. Duct sizes shown on the drawings are sheet metal sizes; allowance for duct liner has been made where applicable.
- E. Duct sizes shown on the drawings for exposed double wall round ducts are the outer casing size.

2.4 DUCT LINER:

- A. No duct lining is allowed on this project.

2.5 MISCELLANEOUS DUCTWORK MATERIALS:

- A. Duct Sealant: Non-hardening, non-migrating mastic sealant, as recommended for sealing joints and seams in ductwork. Oil base caulking and glazing compounds shall not be acceptable.
- B. Ductwork Support Materials: Except as otherwise indicated, provide hot-dipped galvanized steel fasteners, anchors, rods, straps, trim, and angles for support of ductwork.
- C. Flexible Duct: Pre-insulated CPE liner bonded to a coated spring steel helix. Joints to be sealed per Manufacturer's UL approved recommendations. Insulation shall have a "C" factor of .23 at 60 degrees F with an outer fiberglass reinforced metalized film moisture barrier. Maximum 6" WC positive pressure, 25 flame spread, 50 smoke rating per NFPA, UL 181 Class I duct. Technaflex series WK.
- D. Canvas connectors: UL labeled flexible duct connections, constructed of 30 oz./square yard neoprene-coated flame proof fiberglass fabric crimped onto duct flanges for attachment to duct and equipment.
- E. Duct access doors: Constructed of same or thicker gauge sheet metal as duct in which it is installed. All access doors shall be constructed in accordance with SMACNA, "HVAC Duct Construction Standards," latest edition with two layers of sheet metal and a rigid glass fiber filler between. All doors shall be gasket air tight for the appropriate pressure class.
- F. Manual Dampers:
 - 1. Fabricated of same material as duct, two metal gauges heavier than duct and hammered 1" all around, mounted on 3/8" square rod with saw slot position indicator. Pivot bearing, locking position regulator, Young Regulator Co., series 443. Regulator shall be positioned with sheet metal bracket beyond duct covering. Where positioning regulator is not accessible, provide coupling and extension rod with regulator for ceiling or wall installation, as required. Young series 301 and 315 for ceiling or walls.
 - 2. Manual dampers for rectangular ducts greater than 6 inches high shall be Ruskin, type CD-35. Opposed blade, polyurethane foam seals on all blade edges. Operating shaft shall extend beyond frame and duct to a locking quadrant, adjustable lever.
- G. Air Extractor: E.H. Price, Model AE-1 or AE-2 with No. 2 or 4 operator as applicable. Synchronized curved blades, with manual externally controlled adjusting rod complete with set screw lock or operator arm linkage with Young Regulator Series 443, as applicable to the installation.
- H. Splitter damper: Fabricated of same material as duct, two metal gauges heavier than duct and hammered 1" all around, mounted with hinges, provide Young Regulator Co., Series No. S-900 air-split regulator mounted on duct. Where positioning regulator is not accessible, provide Young

Series No. 912 or No. 914 air split regulator with Series 301 or 315 concealed regulator, as applicable.

- I. Hangers for exposed round ductwork: As detailed on the drawings.

2.6 DUCTWORK FABRICATION:

- A. Shop fabricate ductwork in standard lengths, unless otherwise indicated or required to complete runs.
- B. Fabricate duct fittings to match adjoining ducts, and to comply with duct requirements as applicable to fittings.
- C. Fabricate ductwork with duct liner in each section of duct where indicated. Laminate liner to internal surfaces of duct in accordance with instructions by manufacturers of lining and adhesive, and fasten with mechanical fasteners.

2.7 FIRE DAMPERS:

- A. Fire Dampers: Provide fire dampers of the size required for the duct sizes indicated on the drawings. Fire dampers shall be of the curtain type, suitable for vertical or horizontal installation as required for the location shown. Dampers shall be UL labeled.
- B. Fire dampers shall be Ruskin IBD2, style C, CO, or CR enclosure as applicable, with field fabricated sleeve.
- C. Where fire dampers are located directly behind surface mounted register, grille, etc. damper shall be Ruskin IBD20, style G.

2.8 AUTOMATIC DAMPERS:

- A. Automatic Dampers: Provide AMCA certified low leakage control damper with air foil blades operating opposed blade configuration. Blades shall be extruded aluminum with extruded vinyl blade seal. Conceal linkage in frame. Bearings shall be non-corrosive two piece molded synthetic. Axles shall be square or hexagonal in cross section. Provide blade edge seals. Operators shall be provided by the Temperature Control Section 15973. Dampers shall be equal to a Ruskin CD 50.

2.9 LOUVERS:

- A. Provide manufacturer's standard louvers of size, shape capacity, and type indicated on the drawings; constructed of materials and components as indicated, and as required for a complete installation.
- B. Louvers shall exceed the minimum free area, and shall have a pressure drop less than the maximum indicated on the drawings.
- C. Compatibility: Provide louvers with frame and sill styles that are compatible with adjacent construction, and that are specifically manufactured to fit into construction openings with accurate fit and adequate support, for weatherproof installation. Refer to general construction drawings and specifications for types of material which will contain each type of louver.

- D. Materials: Construct of aluminum extrusions, ASTM B 221, Alloy 6063-T52. Weld units or use stainless steel fasteners.
- E. Louver Screens: On inside face of exterior louvers, provide 1/2" square mesh anodized aluminum wire bird screens mounted in removable extruded aluminum frames, unless indicated otherwise.
- F. Finish shall be as indicated on the drawings or as required by the Architect after award of contract.

2.10 DIFFUSERS, REGISTERS, & GRILLES:

- A. Provide manufacturer's standard diffusers, registers, and grilles of size, shape, capacity and type indicated on the drawings; constructed of materials and components as indicated, and required for a complete installation.
- B. Diffusers, register, and grilles shall have as a minimum, temperature and velocity traverses, throw and drop, and noise criteria ratings for each size device as listed in manufacturer's current data.

2.11 FLUES:

- A. Flues for gas fired condensing furnaces and water heaters shall be as recommended by the furnace manufacturer. Flues shall be schedule 40, CPVC pipe.
- B. Flues for gas fired equipment other than condensing furnaces shall be double wall gas vent, UL listed for type B service consisting of an aluminized steel inner liner and aluminized coated steel outer jacket
- C. Provide manufacturer's standard accessory items including barometric damper, bird proof top, storm collar, roof thimble, etc. as required for a complete installation. Roof thimbles through the metal building roof shall be suitable for use with the metal building roof provided. Metal roof manufacturer shall provide flashing for the flue as required. All stack supports, roof penetrations, terminations, appliance adapters, drain fittings and expansion joints required to install the stack shall be included.
- D. The stack shall terminate three feet above the roof or as required by local codes.

PART 3 - EXECUTION

3.1 INSTALLATION OF METAL DUCTWORK:

- A. General: Assemble and install ductwork in accordance with recognized industry practices which will achieve air-tight systems (maximum 5% leakage), with no objectionable noise, and capable of performing indicated service. Install each run with minimum number of joints. Align ductwork accurately with internal surfaces smooth. Support ducts rigidly with suitable straps, braces, hangers and anchors in accordance with SMACNA "HVAC Duct Construction Standards" latest edition. Duct hangers shall be of the type which will hold ducts true-to-shape and to prevent buckling. Support vertical ducts at every floor.

- B. Auxiliary steel: Provide auxiliary steel as required to adequately support ductwork.
- C. Routing: Locate ductwork runs, except as otherwise indicated, vertically and horizontally and avoid diagonal runs wherever possible. Locate runs as indicated by diagrams, details and notations or, if not otherwise indicated, run ductwork in shortest route which does not obstruct usable space or block access for servicing building and its equipment. Hold ducts close to walls, overhead construction, columns, and other structural and permanent enclosure elements of building. Wherever possible in finished and occupied spaces, conceal ductwork from view, by locating in mechanical shafts, hollow wall construction or above suspended ceilings. Do not encase horizontal runs in solid partitions, except as specifically shown. Coordinate layout with suspended ceiling and lighting layouts and similar finished work.
- D. Electrical Equipment Spaces: Do not route ductwork through transformer vaults and other electrical equipment spaces and enclosures, unless indicated otherwise.
- E. Penetrations:
 - 1. Where ducts pass through interior partitions or exterior walls, and are exposed to view, conceal space between opening and duct or duct insulation with sheet metal flanges of same gage as duct. Overlap opening on 4 sides by at least 1-1/2". Fasten to duct and wall.
 - 2. Where ducts pass through fire-rated floors, walls, or partitions, provide firestopping between duct and wall.
- F. Coordination: Coordinate duct installations with installation of accessories, dampers, coil frames, equipment, controls, and other associated work of the ductwork system.
- G. Installation: Install metal ductwork in accordance with SMACNA "HVAC Duct Construction Standards", latest edition.
- H. Access doors: Provide access doors at all fire dampers, control dampers, backdraft dampers, and other equipment mounted in the ductwork for access to maintain the equipment.

3.2 INSTALLATION OF FLEXIBLE DUCTS:

- A. Maximum Length for any flexible duct shall not exceed 6'-0" extended length.
- B. Installation: Install in accordance with SMACNA's, "HVAC Duct Construction Standards", latest edition. The flexible duct core shall be secured by the use of a metal clamp or non-metallic drawband, suitable for the pressures encountered. Duct tape shall not be acceptable. Secure the insulation over the drawband with an additional drawband. Round metal duct 12" and larger shall incorporate a bead on end of sheet metal to prevent flexible duct from sliding off. Sheet metal collars for attachment of flexible duct shall be a minimum of 2" in length. Flexible duct shall not be crimped and turns shall be made with a minimum of 2 diameter radius. Provide minimum 2" collar for diffuser and duct connection.

3.3 DIFFUSERS, REGISTERS, AND GRILLES:

- A. Locate diffusers, registers, and grilles, as indicated on Architectural reflected ceiling plans.

3.4 SPARE PARTS:

- A. Furnish to the owner, with receipt, 3 operating keys for each type of diffuser or register requiring them.
- B. Furnish to the owner, with receipt, 1 extra fusible link for every 5 installed, of each temperature-range.

3.5 EQUIPMENT CONNECTIONS:

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

3.6 START-UP:

- A. Clean ductwork internally, unit by unit as it is installed, of dust and debris. Clean external surfaces of foreign substances which might cause corrosive deterioration of metal or where duct is to be painted.
- B. Temporary Closure: At ends of ducts which are not connected to equipment or air distribution devices at time of ductwork installation, provide temporary closure of polyethylene film or other covering which will prevent entrance of dust and debris until connections are to be completed.
- C. Refer to Section "15990, "TESTING, ADJUSTING, AND BALANCING" for air distribution balancing. Seal any leaks in ductwork that become apparent in balancing process.

END OF SECTION -- 15891

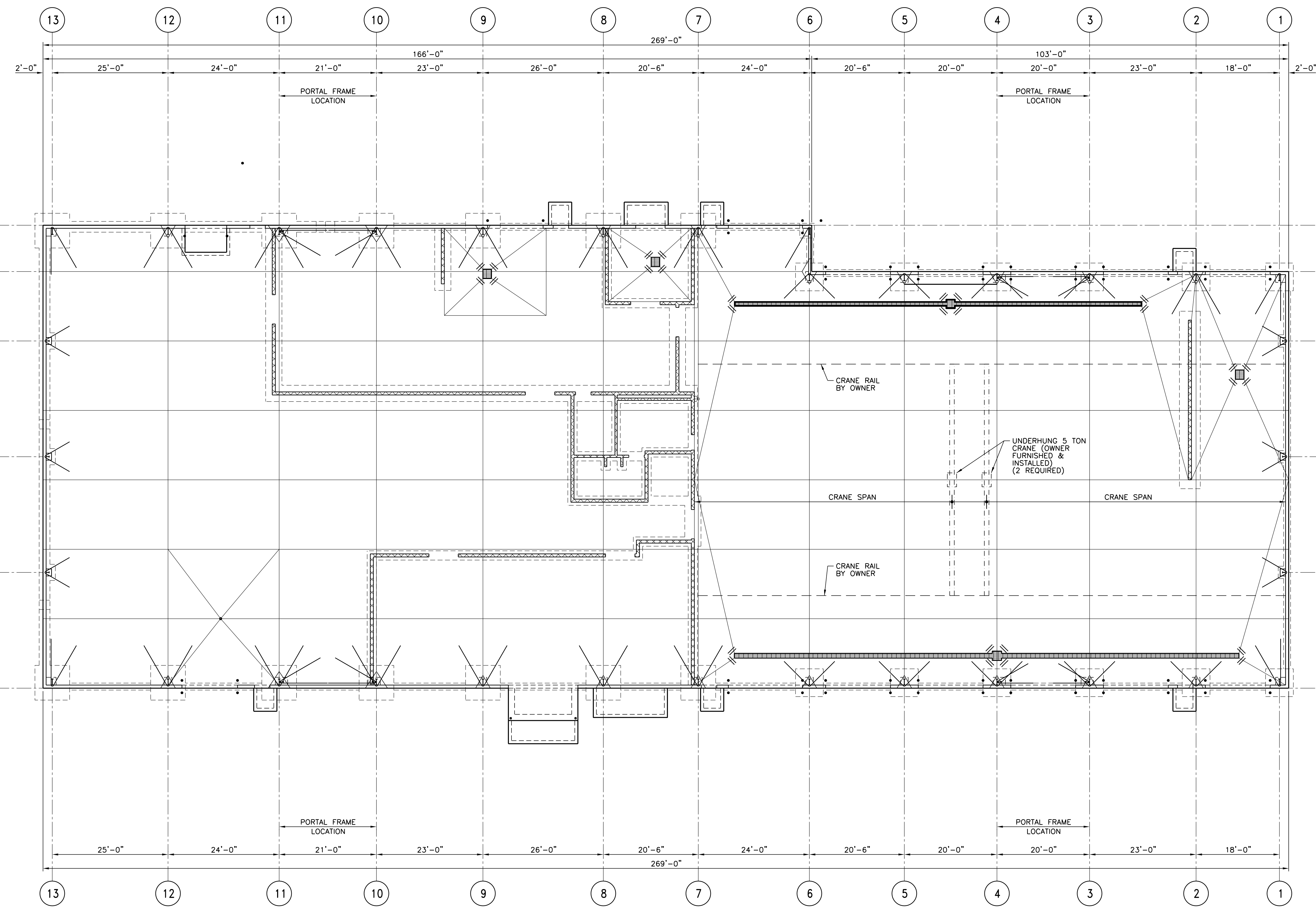
CONSULTANTS:

REVISIONS:	PERMIT SUBMITTAL	DATE	DESCRIPTION
03/28/2012			

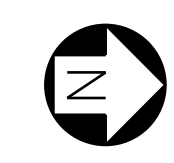
PROJ NO: P101120013
 SCALE: AS SHOWN
 DATE: 4/10/2012
 DESIGNED BY: DJG
 DRAWN BY: MDG
 CHECKED BY: DJG

SHEET TITLE:
OVERALL FOUNDATION PLAN

SHEET NO.
S-100



A OVERALL FOUNDATION PLAN
 SCALE: 3/32"=1'-0"



CONSULTANTS:

INLAND TRUCK PARTS
 NEW SERVICE CENTER
 NORTH PLATTE, NEBRASKA

INLAND TRUCK PARTS COMPANY
 An Employee Owned Company

REVISIONS:	PERMIT SUBMITTAL	DESCRIPTION
03/28/2012		

PROJ NO: P101120013
 SCALE: AS SHOWN
 DATE: 4/10/2012
 DESIGNED BY: DJJ
 DRAWN BY: MDG
 CHECKED BY: DJJ

SHEET TITLE:
PARTIAL FOUNDATION PLAN (SOUTH)

SHEET NO.
S-101

SHEET OF

FOUNDATION PLAN NOTES

- PLAN ELEVATION 100'-0" = ELEVATION OF 2792.30'.
- "C.J." DENOTES CONSTRUCTION JOINT OR SAWN CONTROL JOINT IN SLAB-ON-GRADE PER TYPICAL DETAILS. DO NOT USE C.J. AS A DIMENSION LINE OR TO LOCATE BUILDING ELEMENTS.
- REFER TO ARCHITECTURE AND CIVIL DRAWINGS FOR SIDEWALK LOCATIONS AROUND BUILDING.
- "S.L." DENOTES SLOPE LINE.
- SEE SHEET S-101 FOR FOOTING AND TOP OF FOOTING ELEVATION SCHEDULES.
- FOOTING INFORMATION ARE NOTED ON THE PLANS AS FOLLOWS:
 [] BOX 1 - SCHEDULED FOOTING MARK
 [] BOX 2 - TOP OF FOOTING ELEVATION
- [] DENOTES MASONRY WALL. REFERENCE SECTIONS AND DETAILS FOR REINFORCING AND LINTEL REQUIREMENTS.
- DENOTES INTERIOR OR EXTERIOR BOLLARD. SEE ARCH'L. FOR DETAIL.

PLAN KEY NOTES

- SLAB-ON-GRADE SHALL BE 6" THICK ON PREPARED SUBGRADE OVER 10 MIL POLY. VAPOR BARRIER AND 18" OF LVC MATERIAL OF WHICH THE UPPER 6" IS CRUSHED LIMESTONE SILTY GRAVEL SIMILAR TO KDOT AB-3 TYPE MATERIAL PER TYPICAL DETAILS, UNLESS NOTED OTHERWISE ON THE PLANS. REINFORCE SLAB WITH #4 @ 12" ON CENTER, EACH WAY, 2' FROM TOP SURFACE OF SLAB. REINFORCING SHALL BE SUPPORTED BY CHAIRS. SLOPE SLAB TO DRAINS PER ARCH'L. DRAWINGS.
- DRAIN. REFER TO MEP DRAWINGS FOR INFORMATION. PROVIDE (2) #4 x 3'-0" CORNER BARS @ EACH CORNER OF DRAIN STRUCTURES.
- (1) #7 HAIRPIN BAR, TYPICAL AT ALL RIGID FRAME COLUMNS, U.N.O.
- (2) #6 HAIRPIN BARS, TYPICAL AT TRENCH DRAIN COLUMNS.
- (2) #7 HAIRPIN BARS REQUIRED AT BRACED FRAMES LOCATION, TYP.
- (1) #5 HAIRPIN BAR, TYPICAL AT WIND POSTS.
- METAL BUILDING NOTE: END WALL TO BE DESIGNED AS "EXPANDABLE END WALL FRAME" CAPABLE OF SUPPORTING A FUTURE 25 FT. STRUCTURAL BAY.
- INSTALL BOLLARDS, SEE ARCH'L. PLANS FOR EXACT LOCATION AND DETAILS.

REINFORCED MASONRY WALL SCHEDULE

WALL MARK	WALL THICKNESS	VERTICAL REINFORCING	NOTES
W1	8"	#4 @ 8" O.C.	
W2	8"	#4 @ 8" O.C.	
W3	8"	#4 @ 32" O.C.	
W4	6"	#4 @ 16" O.C.	

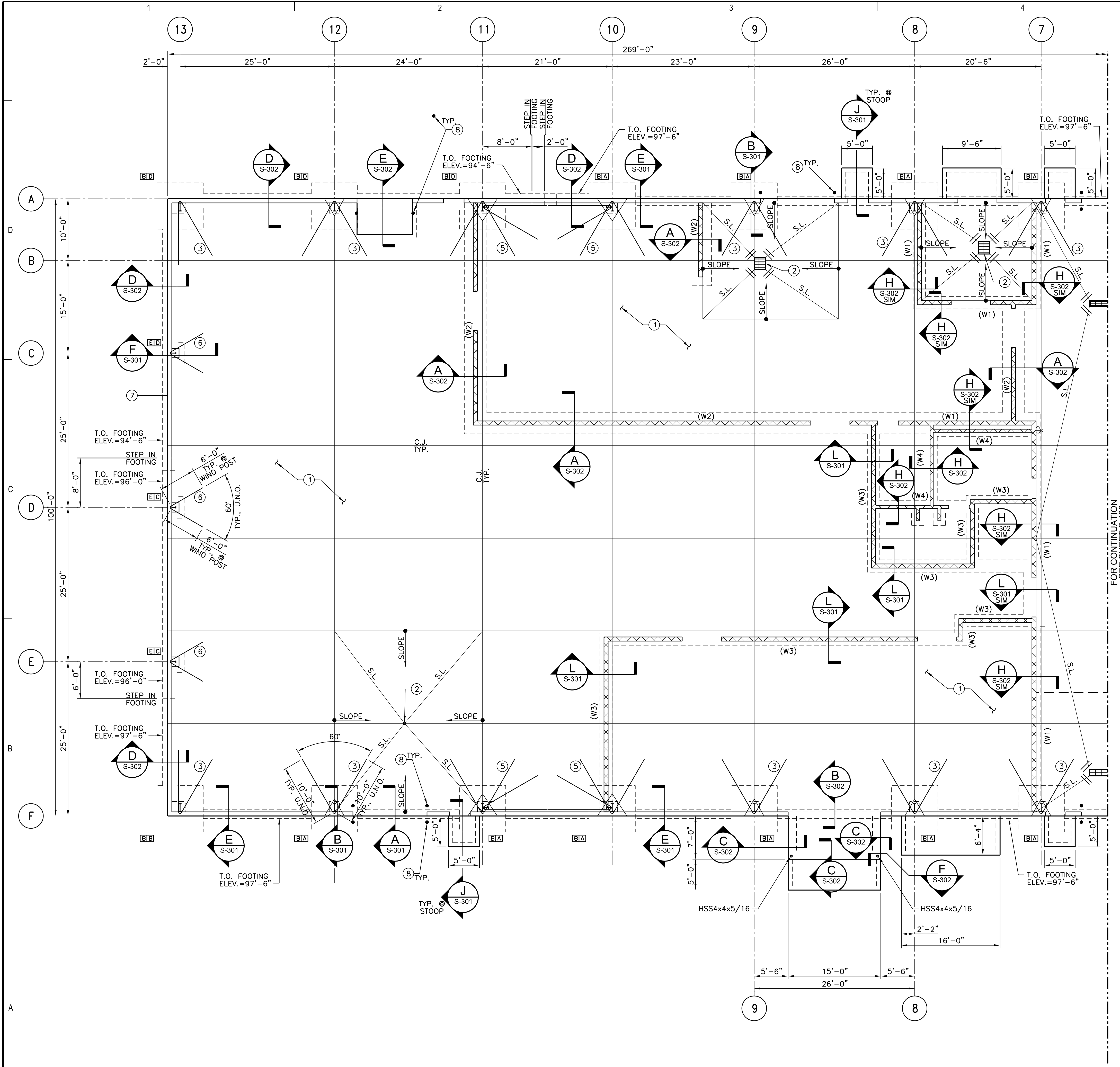
FOOTING SCHEDULE

FOOTING MARK	FOOTING SIZE	REINFORCING	NOTES
A	6'-0"x6'-0"x2'-0"	(7) #6 E.W. TOP & BOTT.	
B	7'-6"x7'-6"x2'-0"	(8) #6 E.W. TOP & BOTT.	
C	3'-2"x3'-2"x2'-0"	(4) #6 E.W. TOP & BOTT.	
D	2'-8"x2'-8"x1'-0"	(4) #5 E.W. BOTT.	
E	3'-6"x3'-6"x2'-0"	(4) #5 E.W. TOP & BOTT.	

TOP OF FOOTING SCHEDULE

FOOTING MARK	TOP OF FOOTING ELEVATION	NOTES
A	98'-6"	
B	97'-6"	
C	96'-0"	
D	94'-6"	

A PARTIAL FOUNDATION PLAN (SOUTH)
 SCALE: 1/8"=1'-0"



FOR CONTINUATION
 SEE SHEET S-102

CONSULTANTS:

INLAND TRUCK PARTS
NEW SERVICE CENTER
 NORTH PLATTE, NEBRASKA

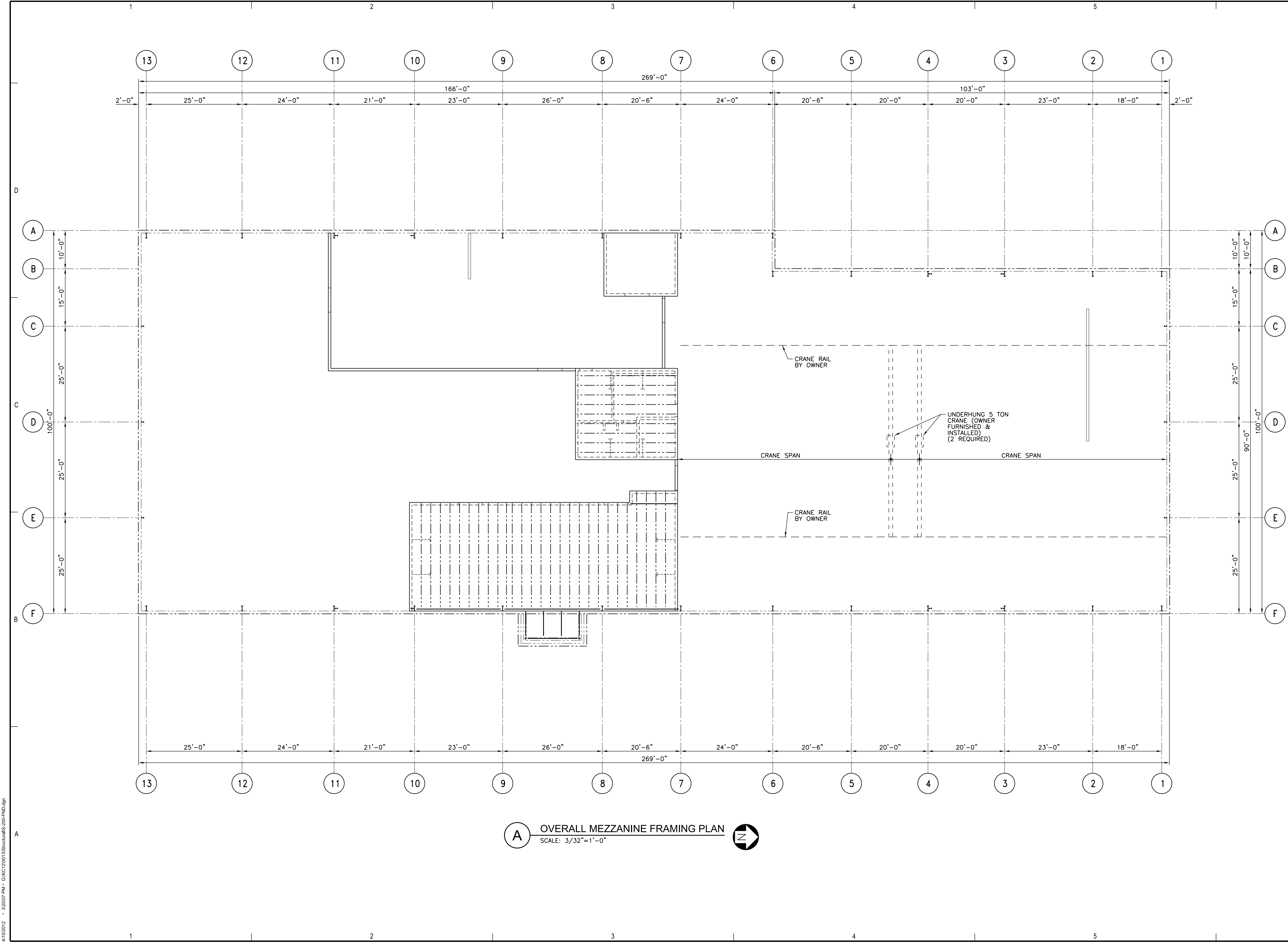
INLAND TRUCK PARTS COMPANY
An Employee Owned Company

REVISIONS:	PERMIT SUBMITTAL	DATE	DESCRIPTION
03/28/2012			

PROJ NO: P101120013
 SCALE: AS SHOWN
 DATE: 4/10/2012
 DESIGNED BY: DJJ
 DRAWN BY: MDG
 CHECKED BY: DJJ

SHEET TITLE:
OVERALL MEZZANINE FRAMING PLAN

SHEET NO.
S-200



A OVERALL MEZZANINE FRAMING PLAN
 SCALE: 3/32"=1'-0"



MEZZANINE FRAMING PLAN NOTES

1. T.O. STEEL ELEVATION = BOTTOM OF METAL DECK U.N.O.

PLAN KEY NOTES

1. 2 1/2" CONCRETE ON 1.0 C22 METAL DECK (3 1/2" TOTAL THICKNESS) REINFORCE W/ 6x6x W2.9 x W2.9 W.W.F. ATTACHMENT OF NON COMPOSITE DECK TO THE SUPPORTING BEAMS AND JOISTS SHALL BE PUDDLE WELD UTILIZING STANDARD 5/8" DIAMETER WELD WASHERS AT 12" O.C. SPACING. MAXIMUM SIDELAP CONNECTION BETWEEN DECK PANELS SHALL BE (1) #10 TEK SCREW PER SPAN.
2. 1.5 B 20 STEEL METAL DECK FASTEN TO SUPPORTING STRUCTURE PER GENERAL NOTES.
3. BRIDGING REQUIRED FOR JOISTS, PER JOIST MANUFACTURER.
4. FLUID STORAGE ROOM ROOF AND MEN'S TOILET/LOCKER ROOM ROOF DESIGNED FOR 60 PSF LIVE LOAD.
5. 10" THICK CAST-IN-PLACE CONCRETE SLAB. REINFORCE W/ #5 @ 6" E.W. TOP & BOTTOM.

CONSULTANTS:

INLAND TRUCK PARTS
 NEW SERVICE CENTER
 NORTH PLATTE, NEBRASKA

INLAND TRUCK PARTS COMPANY
An Employee Owned Company

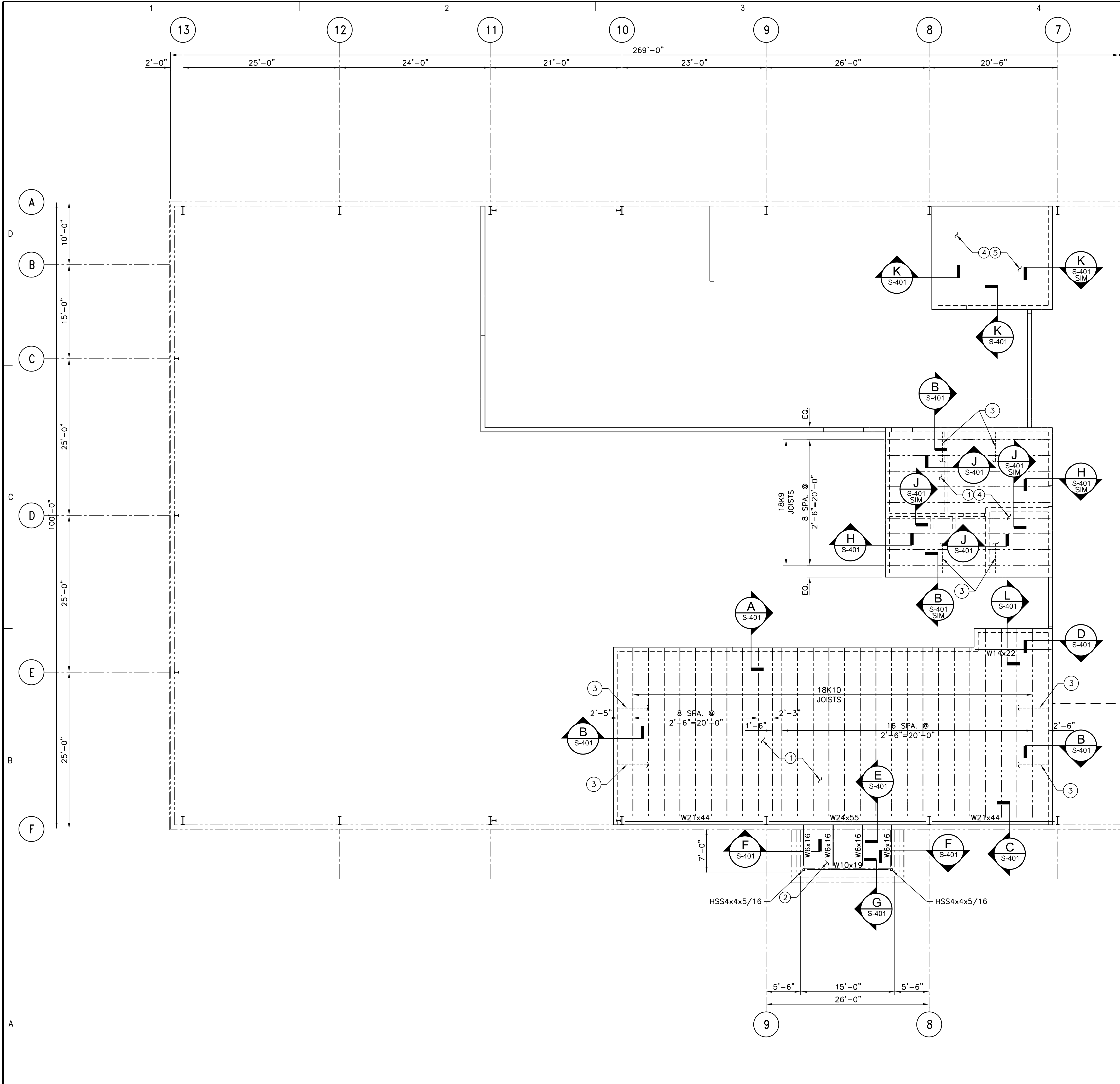
REVISIONS:	PERMIT SUBMITTAL	DESCRIPTION
03/28/2012		

PROJ NO: P101120013
 SCALE: AS SHOWN
 DATE: 4/10/2012
 DESIGNED BY: DJS
 DRAWN BY: MDG
 CHECKED BY: DJS

SHEET TITLE:
PARTIAL MEZZANINE FRAMING PLAN (SOUTH)

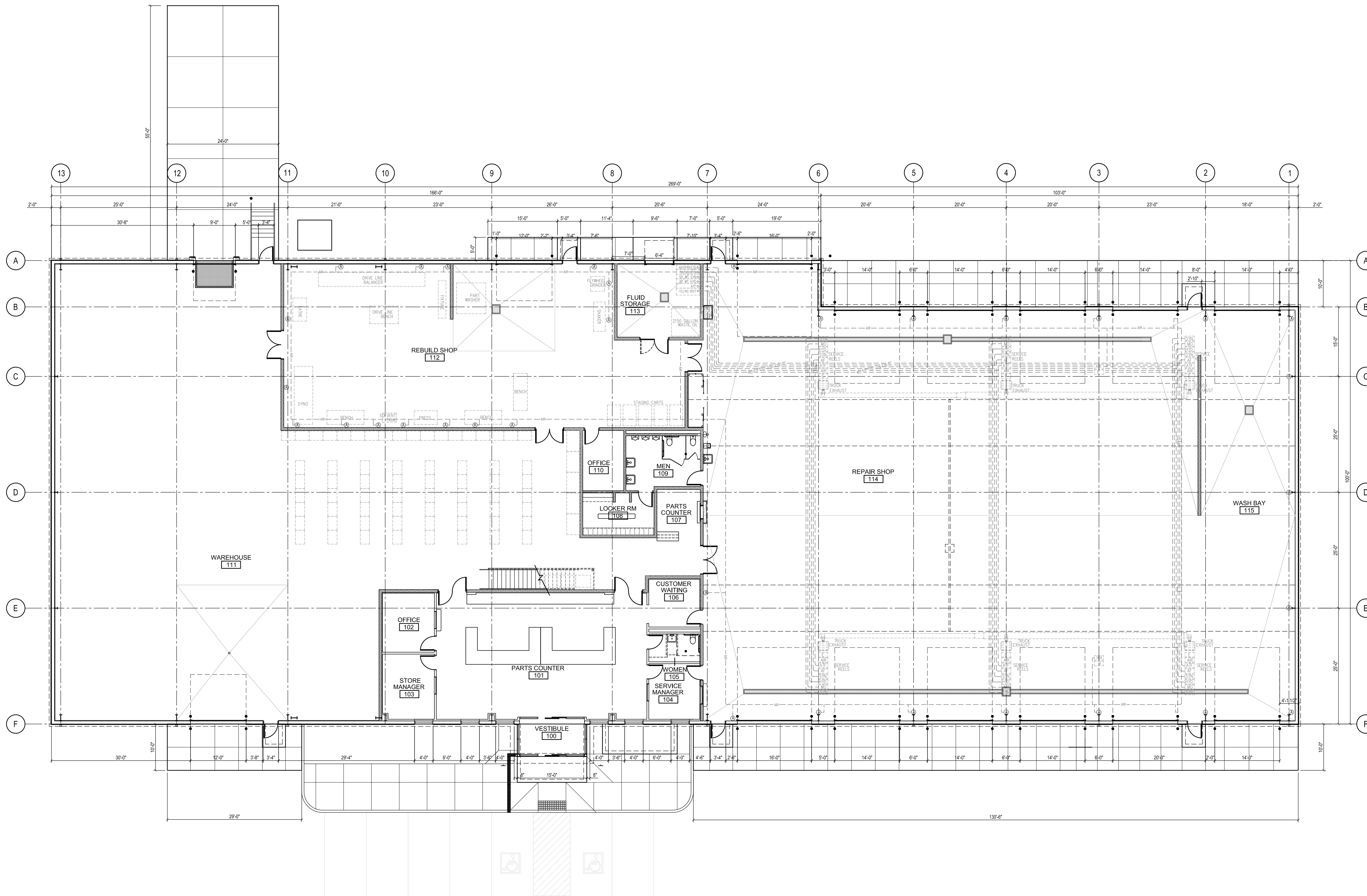
SHEET NO.
S-201

SHEET OF

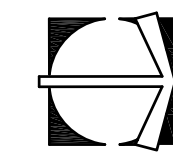


A PARTIAL MEZZANINE FRAMING PLAN (SOUTH)
 SCALE: 1/8"=1'-0"

C:\KC12\0013\Architectural\A-100 Overall Floor Plan.dwg, Plotted: Apr 04, 2012 - 8:54am



1 OVERALL FLOOR PLAN
A-101 SCALE: 3/32" = 1'-0"



NORTH

IF THIS DRAWING IS LESS THAN 24" X 36" IT IS A REDUCED SIZE DRAWING

CONSULTANTS:

REVISIONS:	DATE	DESCRIPTION
3/28/2012		PERMIT SUBMITTAL

PROJ NO: P101120013
SCALE: AS NOTED
DATE: 3/28/2012
DESIGNED BY: MFP
DRAWN BY: MFP/MON
CHECKED BY: MFP

SHEET TITLE:
OVERALL FIRST FLOOR PLAN

SHEET NO. **A-100**
SHEET OF

C:\KC12\0013\Architectural\A-101-102-104 Partial Floor Plans.dwg, Plotted: Apr 04, 2012 - 8:49am

GENERAL NOTES

1. METAL BUILDING "STEEL LINE" MATCHES THE EXTERIOR FACE OF FOUNDATION WALL IN ALL AREAS EXCEPT AS OTHERWISE NOTED.
2. ALL INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF WALL.
3. REFER TO SHEET A-000 FOR ALL ABBREVIATIONS, NOTES, AND SYMBOLS.
4. REFER TO SHEET A-001 FOR ALL BUILDING CODE CRITERIA, EXITING REQUIREMENTS AND EGRESS INFORMATION.
5. REFER TO SHEET A-002 FOR ALL WALL TYPES.
6. REFER TO SHEET A-003 FOR ALL METAL STUD WALL FRAMING DETAIL AND FOR GENERAL FRAMING NOTES.

TranSystems
 2400 Pershing Road
 Suite 400
 Kansas City, MO 64108
 PHONE: 816.329.8600
 FAX: 816.329.8602

CONSULTANTS:

**INLAND TRUCK PARTS
 NEW SERVICE CENTER**
 NORTH PLATTE, NEBRASKA

**INLAND TRUCK
 PARTS COMPANY**
An Employee Owned Company

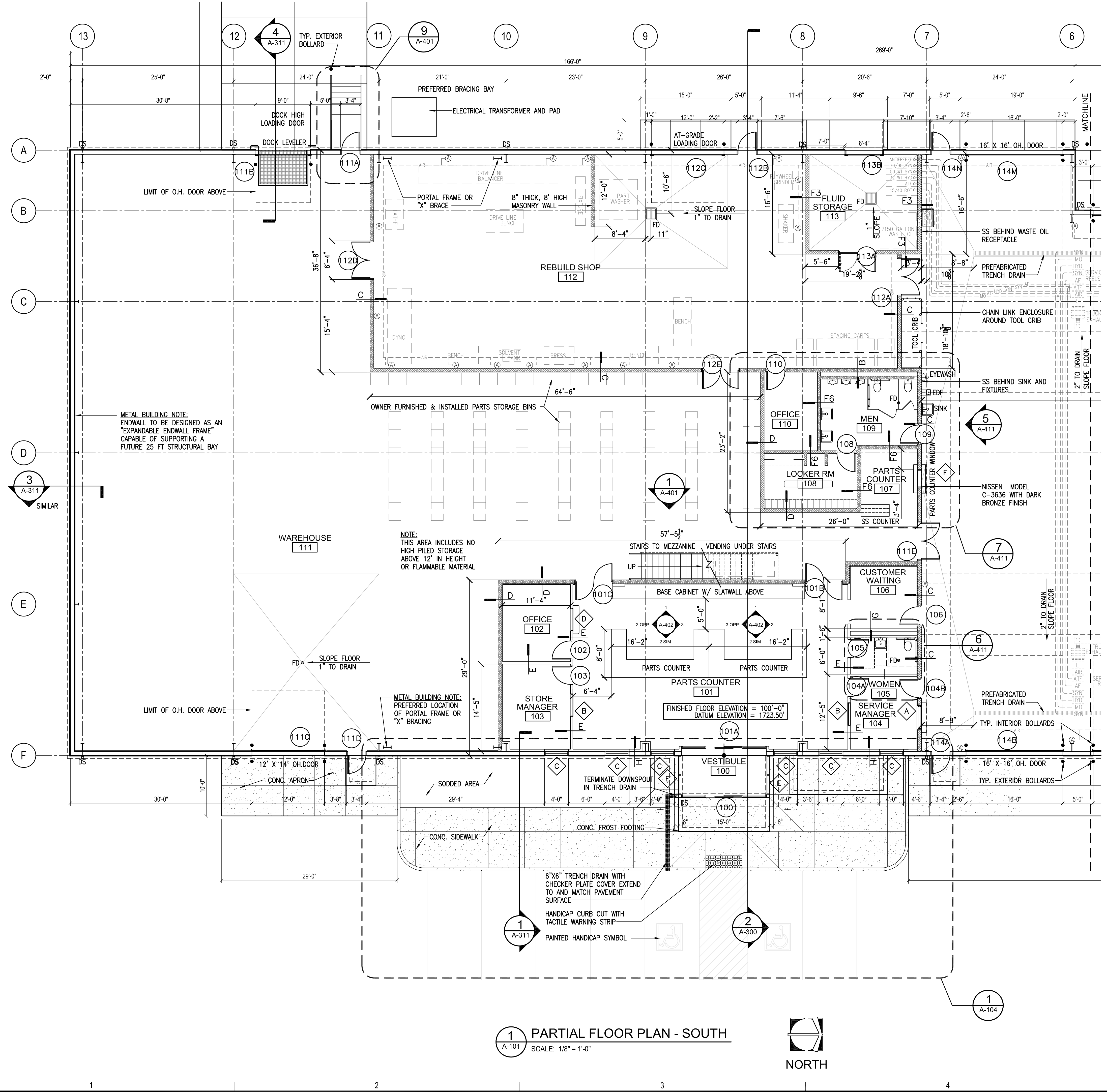
REVISIONS:	DATE	DESCRIPTION
3/28/2012	PERMIT SUBMITTAL	

PROJ NO: P101120013
 SCALE: AS NOTED
 DATE: 3/28/2012
 DESIGNED BY: MFP
 DRAWN BY: MFP/MON
 CHECKED BY: MFP

SHEET TITLE:
PARTIAL FIRST FLOOR PLAN SOUTH

SHEET NO.
A-101

SHEET OF

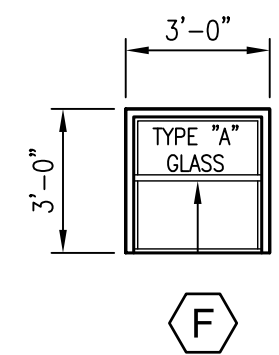
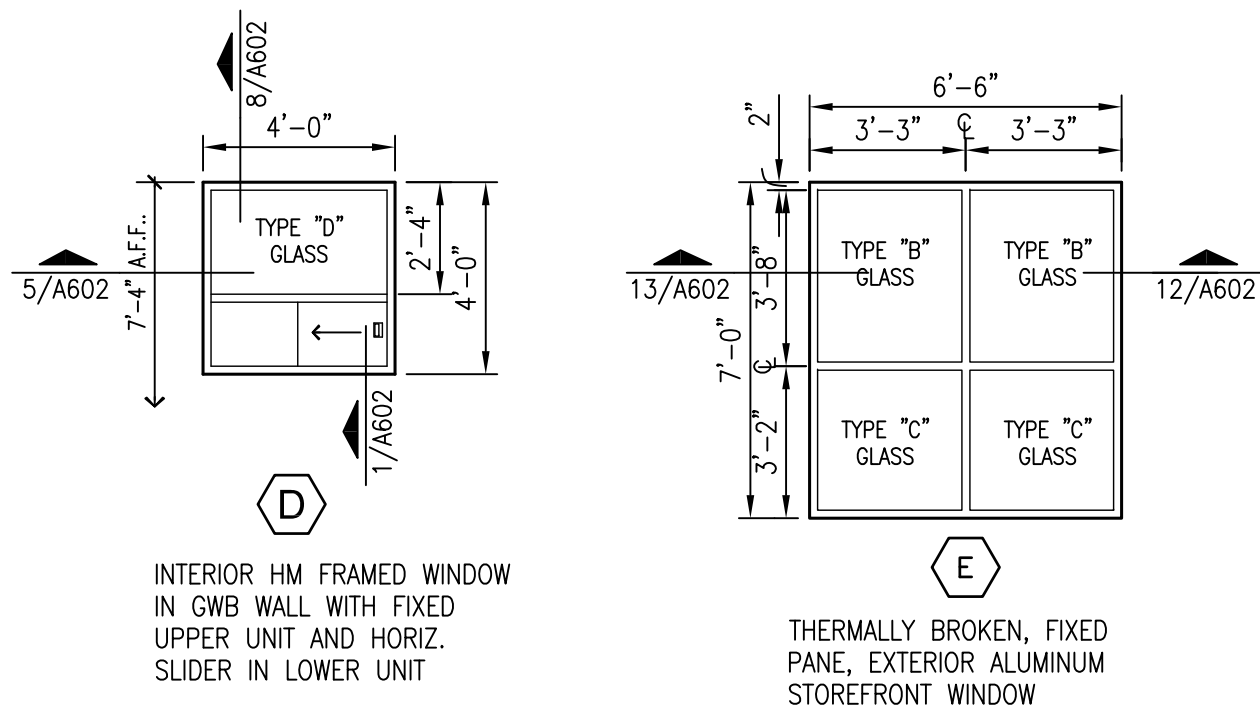
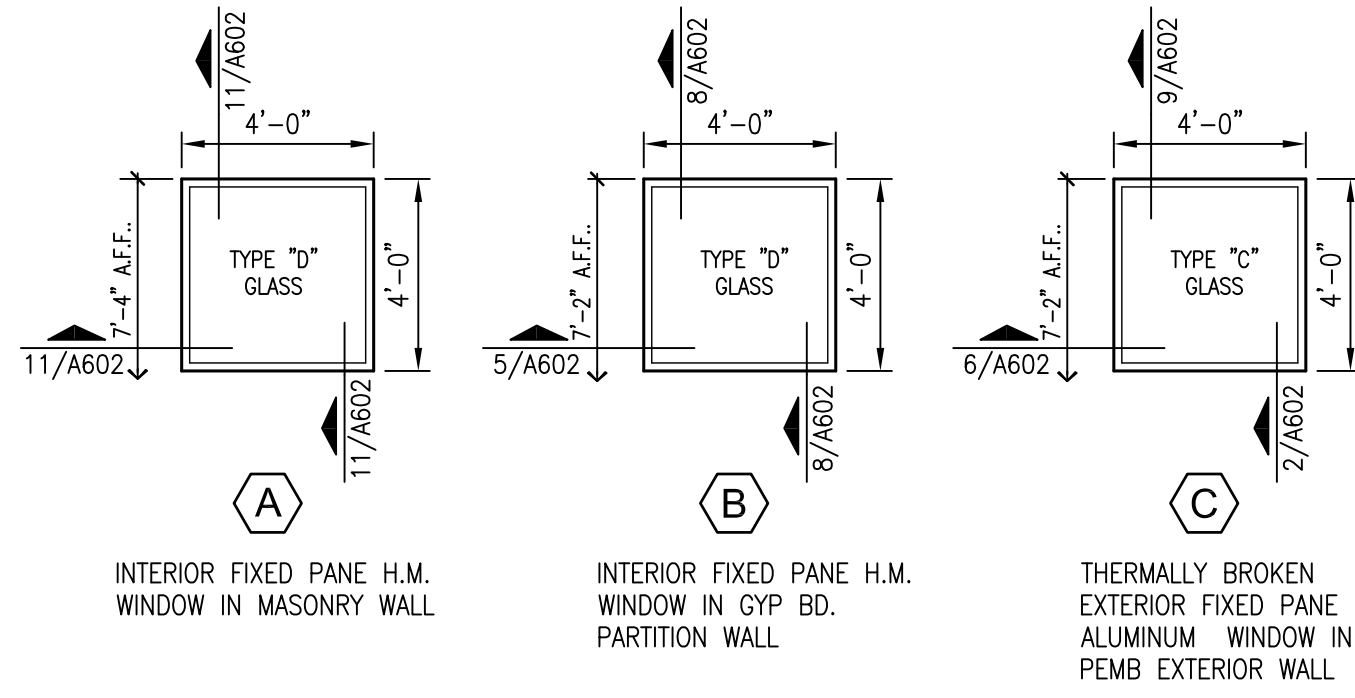


1 PARTIAL FLOOR PLAN - SOUTH
 SCALE: 1/8" = 1'-0"



IF THIS DRAWING IS LESS THAN 24" X 36" IT IS A REDUCED SIZE DRAWING

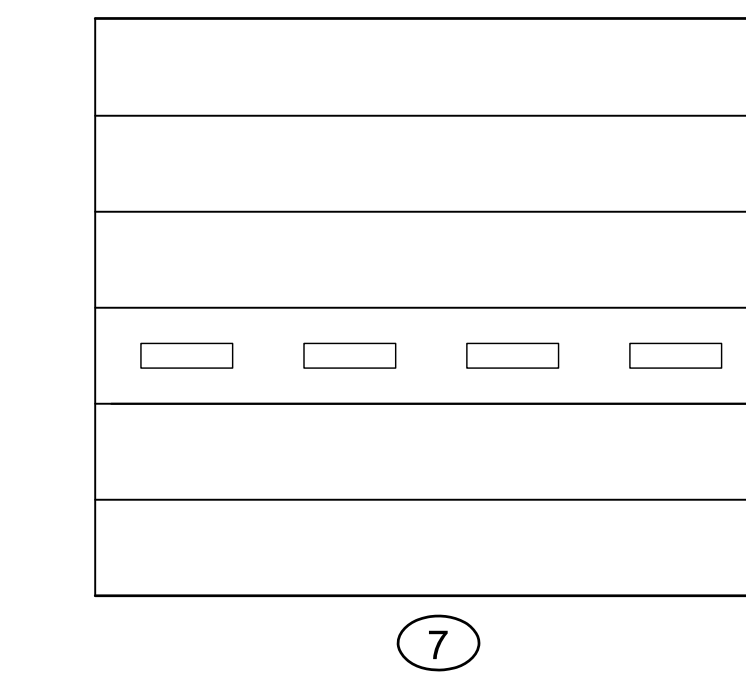
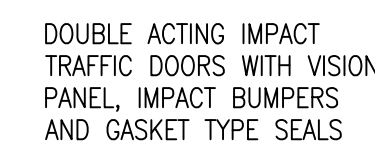
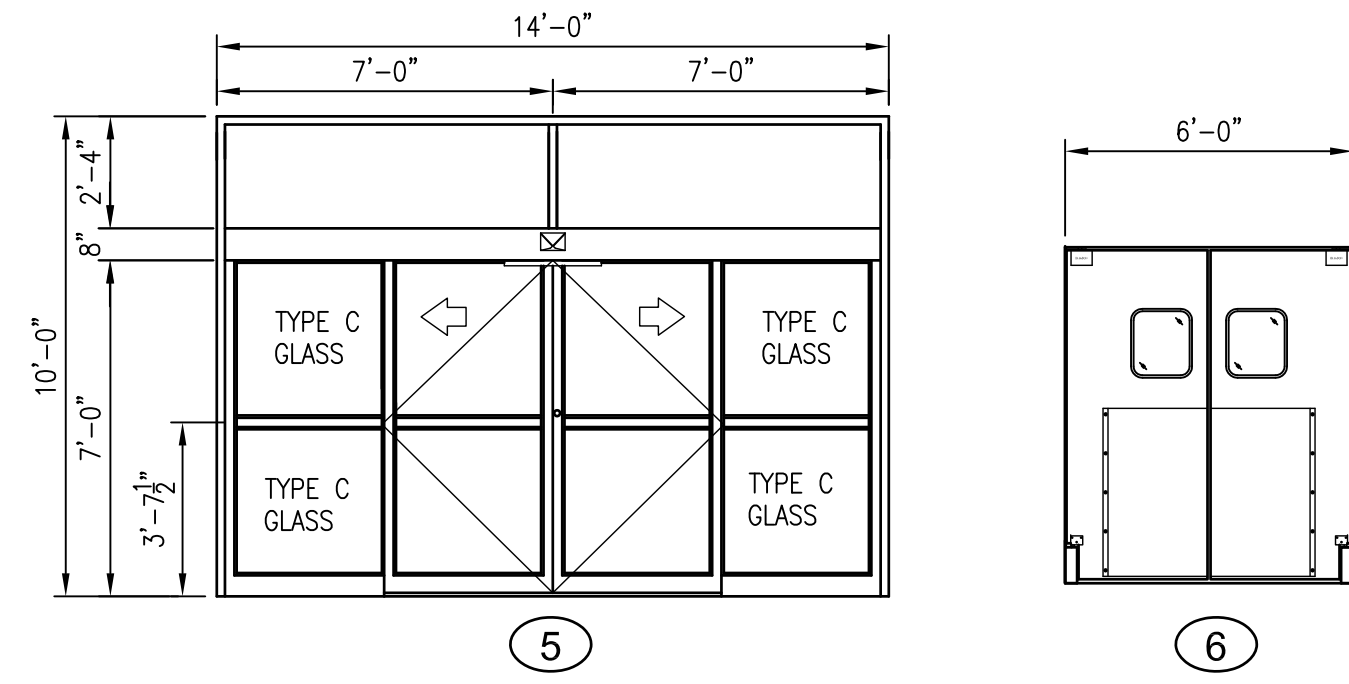
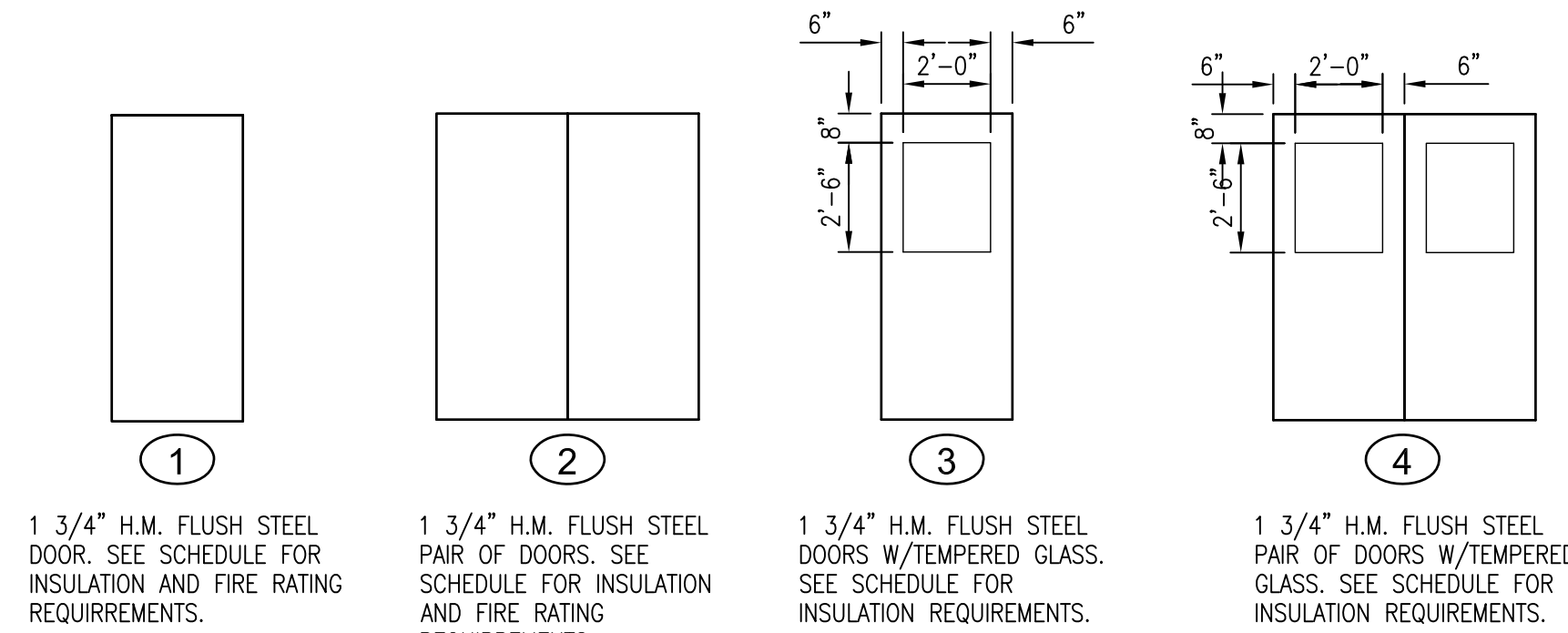
WINDOW TYPES



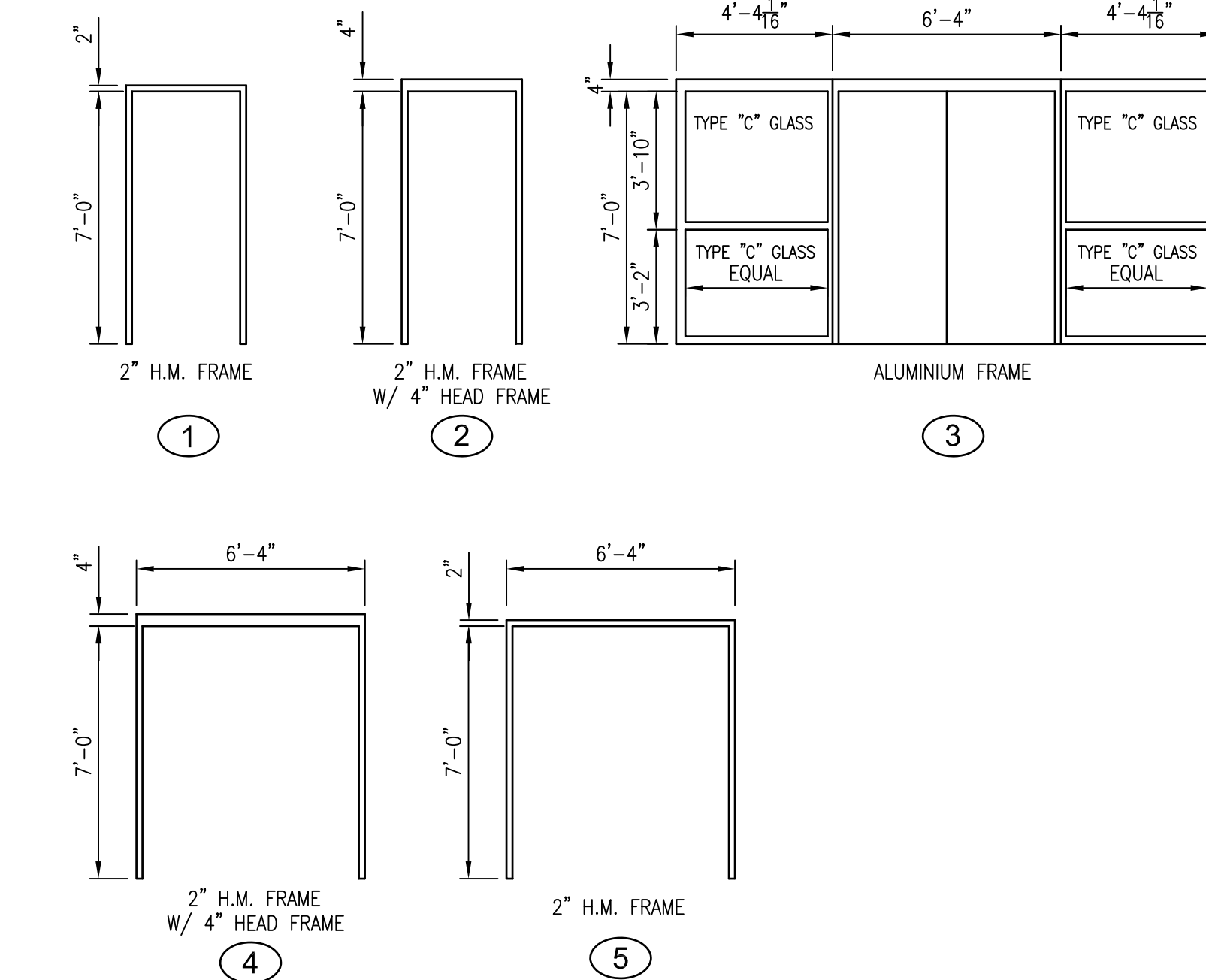
GLAZING TYPES

TYPE "A" GLASS TO BE 1/4" FLOAT GLASS
 TYPE "B" GLASS TO BE 1" INSULATED DOUBLE GLAZING
 TYPE "C" GLASS TO BE 1" INSULATED TEMPERED DOUBLE GLAZING
 TYPE "D" GLASS TO BE 1/4" CLEAR TEMPERED GLASS

DOOR TYPES



FRAME TYPES

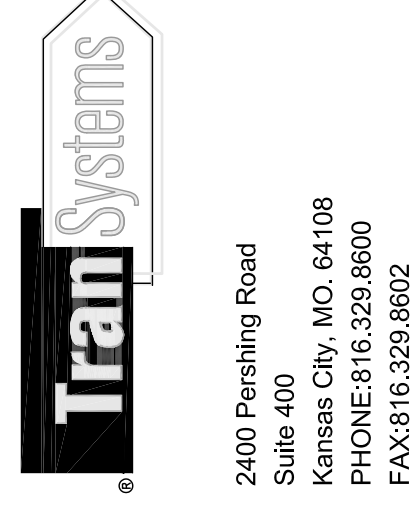


DOOR SCHEDULE

NO.	DOOR	FRAME		DETAILS			REMARKS
		TYPE	MATERIAL	TYPE	MATERIAL FINISH	JAMB HEAD SILL	
100	14'-0" x 7'-0" x 1-3/4"	5	AL	3	AL ANOD.	17/A601 8/A601 3/A601	2. AUTOMATIC BI-PARTING DOOR
101A	14'-0" x 7'-0" x 1-3/4"	5	AL	3	AL ANOD.	16/A601 8/A601 3/A601	2. AUTOMATIC BI-PARTING DOOR
101B	PR 3'-0" x 7'-0" x 1-3/4"	6	FF	4	HM PAINT	5/A601 10/A601 -	DBL. ACTING IMPACT TRAFFIC DOOR
101C	PR 3'-0" x 7'-0" x 1-3/4"	6	FF	4	HM PAINT	5/A601 10/A601 -	DBL. ACTING IMPACT TRAFFIC DOOR
102	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	16/A601 17/A601 -	3 -
103	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	16/A601 17/A601 -	3 -
104A	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	16/A601 17/A601 -	3 -
104B	3'-0" x 7'-0" x 1-3/4"	1	HM	2	HM PAINT	9/A601 14/A601 -	4 -
105	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	16/A601 17/A601 -	5 -
106	3'-0" x 7'-0" x 1-3/4"	1	HM	2	HM PAINT	9/A601 14/A601 -	4 -
108	3'-0" x 7'-0" x 1-3/4"	3	HM	2	HM PAINT	4/A601 13/A601 -	6 -
109	3'-0" x 7'-0" x 1-3/4"	1	HM	2	HM PAINT	4/A601 13/A601 -	4 -
110	3'-0" x 7'-0" x 1-3/4"	1	HM	2	HM PAINT	4/A601 13/A601 -	4 -
111A	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	7/A601 12/A601 2/A601	2
111B	9'-0" x 10'-0" x 1-3/4"	7	FF	NA	MTL PAINT	11/A601 15/A601 NA	2, POWER OPERATED DOOR
111C	12'-0" x 14'-0" x 1-3/4"	7	FF	NA	MTL PAINT	11/A601 15/A601 1/A601	2, POWER OPERATED DOOR
111D	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	7/A601 12/A601 2/A601	2
111E	PR 3'-0" x 7'-0" x 1-3/4"	2	HM	4	HM PAINT	4/A601 13/A601 -	7
112A	PR 3'-0" x 7'-0" x 1-3/4"	2	HM	4	HM PAINT	4/A601 13/A601 -	7
112B	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	7/A601 12/A601 2/A601	2
112C	12'-0" x 14'-0" x 1-3/4"	7	FF	NA	MTL PAINT	11/A601 15/A601 1/A601	2, POWER OPERATED DOOR
112D	PR 3'-0" x 7'-0" x 1-3/4"	2	HM	4	HM PAINT	4/A601 13/A601 -	7
112E	PR 3'-0" x 7'-0" x 1-3/4"	2	FF	4	HM PAINT	5/A601 10/A601 -	7
113A	PR 3'-0" x 7'-0" x 1-3/4"	2	HM	4	HM PAINT	4/A601 13/A601 -	7
113B	6'-4" x 8'-2" x 1-3/4"	2	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114A	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	7/A601 12/A601 2/A601	2
114B	16'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114C	14'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114D	14'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114E	14'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114F	14'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114G	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	7/A601 12/A601 2/A601	2
114H	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	7/A601 12/A601 2/A601	2
114I	14'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114J	14'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114K	14'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114L	14'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114M	16'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
114N	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	7/A601 12/A601 2/A601	2
115A	14'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
115B	14'-0" x 16'-0" x 1-3/4"	7	FF	NA	MTL PAINT	6/A601 15/A601 1/A601	2, POWER OPERATED DOOR
MEZZANINE LEVEL DOORS							
201	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	16/A601 17/A601	4
202	3'-0" x 7'-0" x 1-3/4"	1	HM	1	HM PAINT	16/A601 17/A601	4
203	3'-0" x 7'-0" x 1-3/4"	3	HM	1	HM PAINT	16/A601 17/A601	4

DOOR SCHEDULE NOTES:

- ALL EXTERIOR HOLLOW METAL DOORS SHALL BE GALVANIZED.
- ALL DOOR HARDWARE EXCEPT CYLINDER TO BE PROVIDED BY MANUFACTURER.
- ALL GLASS IN DOORS SHALL BE TEMPERED.
- LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED, AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC DEVICES, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE HARDWARE.
- MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING:
 INTERIOR DOORS - 5 LBS
 EXTERIOR DOORS - 15 LBS
 FIRE DOORS - 15 LBS. PER IBC.
- ALL HARDWARE SHALL MEET THE REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT. IF ANY SPECIFIED ITEM DOES NOT MEET THESE REQUIREMENT, THE HARDWARE SUPPLIER SHALL SUBMIT SIMILAR PRODUCTS WHICH ARE IN COMPLIANCE WITH ADA.
- ALL EXT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- KEYING SHALL INCORPORATE A GRAND MASTER SYSTEM, AND SHALL BE COORDINATED WITH THE LOCAL MANAGER.



CONSULTANTS:



REVISIONS:	DATE	DESCRIPTION
3/28/2012	PERMIT SUBMITTAL	

PROJ NO: P101120013
SCALE: AS NOTED
DATE: 3/28/2012
DESIGNED BY: MFP
DRAWN BY: MFP/MON
CHECKED BY: MFP
SHEET TITLE:
DOOR & WINDOW TYPES AND SCHEDULES
SHEET NO. A-502
SHEET OF

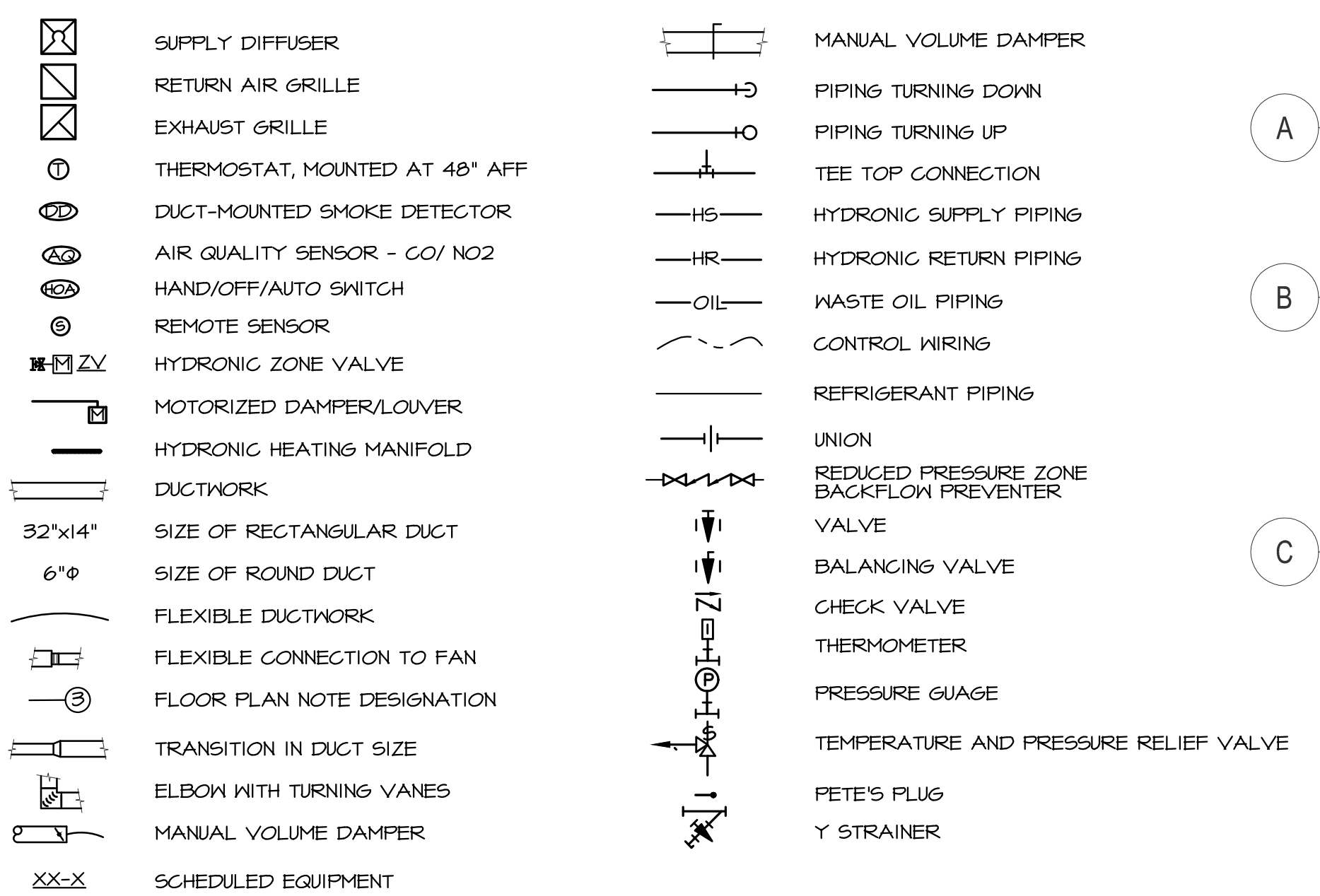
REVISIONS:	DATE	DESCRIPTION
04-06-12		REMOVED UNDERFLOOR HEATING SYSTEM

PROJECT NO: 11699
 SCALE: AS SHOWN
 DATE: 03-28-12
 DESIGNED BY: BQ-DS
 DRAWN BY: BQ-DS
 CHECKED BY: EK-RWC

SHEET TITLE:
**PARTIAL
 GROUND LEVEL
 MECHANICAL
 PLAN SOUTH**

SHEET NO.
M-101
 SHEET OF

MECHANICAL SYMBOLS

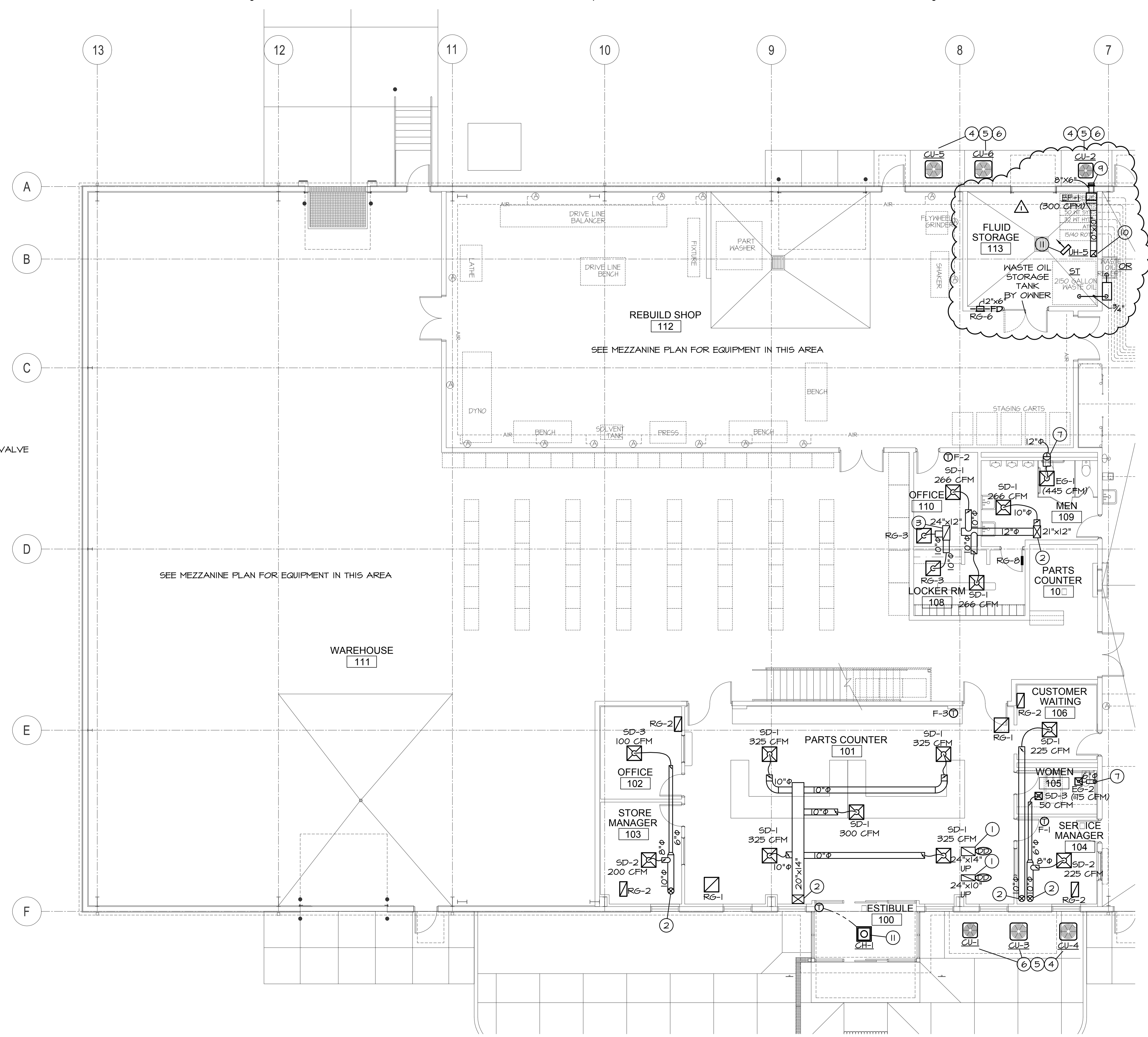


MECHANICAL PLAN NOTES:

- OPEN RETURN AIR DUCT ABOVE CEILING ROUTED DOWN FROM MEZZANINE LEVEL. SEE SHEET M-201 FOR CONTINUATION.
- SUPPLY AIR DUCT DOWN FROM MEZZANINE LEVEL. SEE SHEET M-201 FOR CONTINUATION.
- RETURN AIR DUCT ABOVE CEILING ROUTED DOWN FROM MEZZANINE LEVEL. SEE SHEET M-201 FOR CONTINUATION.
- REFRIGERANT PIPING THROUGH EXTERIOR WALL AT 18" ABOVE GRADE. SEAL WALL PENETRATION WEATHERTIGHT. ROUTE PIPE UP INSIDE WALL TO AS HIGH AS POSSIBLE AND ROUTE TO UNITS.
- CONNECT REFRIGERANT PIPING TO CONDENSING UNIT & COIL AS REQUIRED. PROVIDE REFRIGERANT PIPING FOR CONDENSING UNIT AS REQUIRED BY MANUFACTURER. INSTALL PIPING AS RECOMMENDED BY MANUFACTURER.
- PROVIDE PREFABRICATED PAD FOR CONDENSING UNITS.
- EXHAUST DUCT ROUTED UP TO MEZZANINE LEVEL. SEE SHEET M-201 FOR CONTINUATION.
- ROUTE 8"x6" EXHAUST DUCT THROUGH WALL TO WALL GAP AS REQUIRED. SEAL PENETRATION WEATHERTIGHT.
- ROUTE 10"x10" EXHAUST DUCT DOWN TO 12" AFF. COORDINATE WITH OWNER FOR EXACT LOCATION OF STORAGE TANKS AND EQUIPMENT.
- SUPPORT UNIT FROM STRUCTURE AS REQUIRED BY THE MANUFACTURER. PROVIDE ADDITIONAL SUPPORT STEEL AND VIBRATION ISOLATION AS REQUIRED.

OUTDOOR AIR CALCULATIONS

UNIT	CLASS	SQ. FT.	PEOPLE/SQ. FT.	CFM/SQ. FT.	CFM/PERSON	CFM
REPAIR SHIP	AUTOMOTIVE	9513		1.5		14270
					TOTAL	14270
WAREHOUSE	WAREHOUSE	7890		0.05		395
					TOTAL	395
F-1	OFFICE	541	1/1000		20	76
					TOTAL	76
F-2	OFFICE	114	1/1000		20	16
	LOCKER ROOM	194		0.5		70
					TOTAL	85
F-3	RETAIL	1236		0.3		371
					TOTAL	371
F-4	STORAGE	1870		0.15		281
					TOTAL	281
F-5, F-6	WORKROOM	2296		0.5		1148
					TOTAL	1148



MECHANICAL PARTIAL GROUND LEVEL FLOOR PLAN SOUTH
 SCALE: 1/8" = 1'-0"

REV/DATE:

REVISIONS:	DATE	DESCRIPTION
04-08-12		REMOVED UNDERFLOOR HEATING SYSTEM

PROJECT NO:	11699
SCALE:	AS SHOWN
DATE:	03-28-12
DESIGNED BY:	BQ-DS
DRAWN BY:	BQ-DS
CHECKED BY:	EK-RWC
SHEET TITLE:	
PARTIAL GROUND LEVEL MECHANICAL PLAN NORTH	
SHEET NO. M-102	
SHEET OF	

- MECHANICAL PLAN NOTES:**
- TRUCK EXHAUST SYSTEM PROVIDED BY OTHERS. COORDINATE AS REQUIRED FOR MOUNTING CLEARANCES AROUND RADIANT HEATERS. SEE SHEET A-300 FOR BUILDING SECTIONS.
 - MAINTAIN PROPER CLEARANCE TO COMBUSTIBLES AND ANY MATERIALS THAT CAN BE DAMAGED BY HEAT PER THE RADIANT HEATER MANUFACTURERS REQUIREMENTS.
 - SUPPORT RADIANT HEATERS AT 18" AFF PER THE MANUFACTURERS REQUIREMENTS. SEE SHEET A-300 FOR ELEVATION VIEW. PROVIDE LOWER CLEARANCE SHIELD IF REQUIRED FOR CLEARANCE TO COMBUSTIBLES.
 - SUPPORT RADIANT HEATERS AT 20" AFF PER THE MANUFACTURERS REQUIREMENTS. SEE SHEET A-300 FOR ELEVATION VIEW. PROVIDE LOWER CLEARANCE SHIELD IF REQUIRED FOR CLEARANCE TO COMBUSTIBLES.
 - PROVIDE MANUFACTURERS REQUIRED FLUE TERMINATION KIT FOR RADIANT TUBE HEATERS. PROVIDE ROOF THIMBLE, FLASHING, COUNTER FLASHING & WEATHERHEAD. LOCATE WEATHERHEAD 36" ABOVE EVERYTHING WITHIN 10'. VERIFY 10'-0" FROM ALL OUTDOOR AIR INTAKES.
 - PROVIDE MANUFACTURERS REQUIRED FRESH AIR INTAKE KIT FOR RADIANT TUBE HEATERS. PROVIDE ROOF THIMBLE, FLASHING, COUNTER FLASHING & WEATHERHEAD.
 - ROUTE DUCTWORK UP THROUGH ROOF AND CONNECT TO EXHAUST FAN AS REQUIRED BY THE MANUFACTURER. COORDINATE WITH METAL BUILDING MANUFACTURER FOR CURB AND ALL ROOFING WORK. INTERLOCK FANS WITH GAS SENSOR CONTROL PANEL AND LOUVERS AS DETAILED AND IN CONTROL SEQUENCE.
 - MOUNT BOTTOM OF DAMPER AT 16". INTERLOCK AS DETAILED IN CONTROL SEQUENCE.
 - VERIFY EXACT SPECIFICATIONS OF THE OWNER SUPPLIED PRESSURE WASHER UNIT. PROVIDE FLUE PIPING SIZED PER THE MANUFACTURERS REQUIREMENTS AND PROVIDE ROOF THIMBLE, FLASHING, COUNTER FLASHING & APPROVED WEATHERHEAD. LOCATE WEATHERHEAD 36" ABOVE EVERYTHING WITHIN 10'. VERIFY 10'-0" FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHER TIGHT.
 - COORDINATE WITH THE G.C. TO PROVIDE AN ALUMINUM HEAT SHIELD WITH A 1" AIR GAP ON THE CRANE BEAM AND ALL COMBUSTIBLE COMPONENTS WITHIN THE RADIANT HEATERS SPECIFIED CLEARANCE TO COMBUSTIBLE ZONE.
 - LOCATION OF AIR QUALITY SENSOR FOR GAS SENSING SYSTEM. INSTALL PER THE MANUFACTURERS REQUIREMENTS. INTERLOCK WITH EXHAUST FANS AND LOUVERS AS DETAILED ON SHEET M-202.
 - MOUNT HORN STROBE FOR GAS SENSING SYSTEM PER THE MANUFACTURERS REQUIREMENTS.
 - INSTALL CONTROL PANEL FOR GAS SENSING SYSTEM PER THE MANUFACTURERS REQUIREMENTS.

CONTROL SEQUENCE FOR EXHAUST FANS AND LOUVERS

EXHAUST FAN EF-1 IN THE FLUID STORAGE ROOM IS TO RUN CONTINUOUSLY.

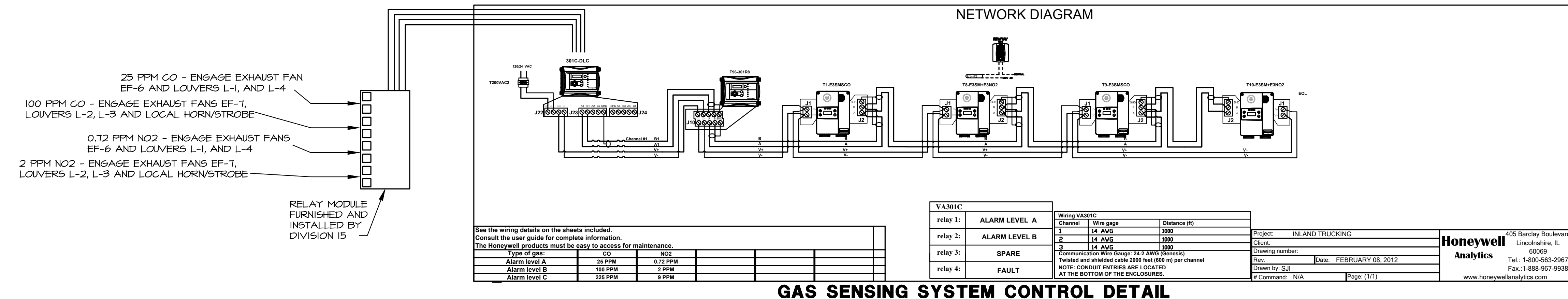
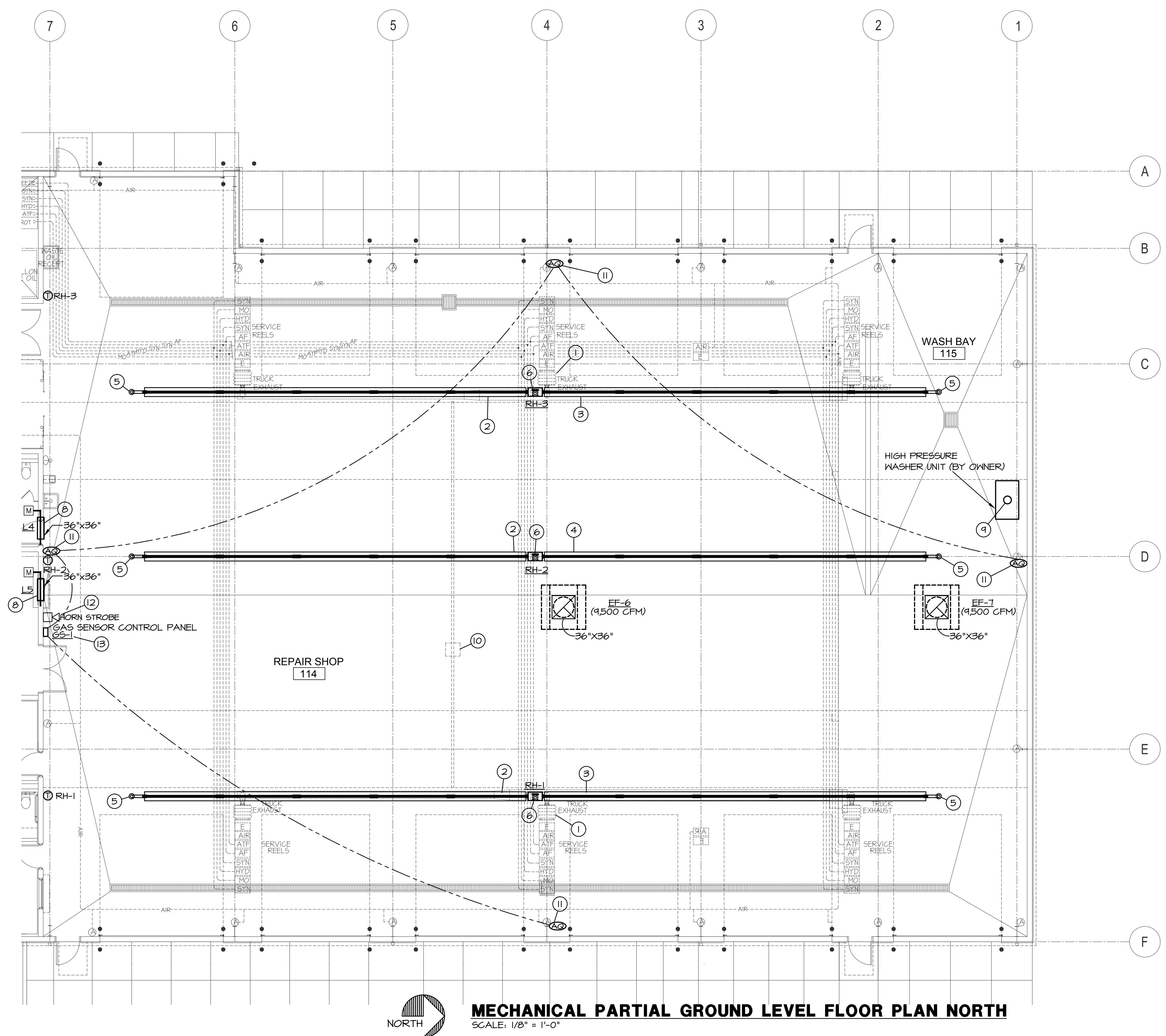
EXHAUST FAN EF-2 IS OPERATED MANUALLY WITH AN ON/OFF SWITCH FOR AREA VENTILATION AND COOLING. WHEN THE SWITCH IS ACTUATED, LOUVER L-1 SHALL OPEN AND THE LOUVER ACTUATORS END TRAVEL SWITCH SHALL ACTIVATE THE MOTOR STARTER FOR EF-2 WHEN THE LOUVER IS FULLY OPEN.

EXHAUST FAN EF-3 IS OPERATED MANUALLY WITH AN ON/OFF SWITCH FOR AREA VENTILATION AND COOLING. WHEN THE SWITCH IS ACTUATED, LOUVER L-3 SHALL OPEN, AND THE LOUVER ACTUATORS END TRAVEL SWITCH SHALL ACTIVATE THE MOTOR STARTER FOR EF-3 WHEN THE LOUVER IS FULLY OPEN.

EXHAUST FANS EF-4 AND EF-5 ARE TO RUN CONTINUOUSLY DURING OCCUPIED HOURS.

WHEN THE GAS SENSING CONTROL PANEL CALLS FOR EF-6 TO OPERATE AND VENTILATE THE SPACE, LOUVERS L-1 AND L-4 SHALL OPEN. THE FAN SHALL BE WIRED TO THE LOUVER ACTUATORS END TRAVEL SWITCH SO THAT THE FAN IS ENGAGED WHEN THE LOUVERS ARE FULLY OPEN.

WHEN THE GAS SENSING CONTROL PANEL CALLS FOR EF-7 TO OPERATE AND VENTILATE THE SPACE, LOUVERS L-2 AND L-3 SHALL OPEN. THE FAN SHALL BE WIRED TO THE LOUVER ACTUATORS END TRAVEL SWITCH SO THAT THE FAN IS ENGAGED WHEN THE LOUVER IS FULLY OPEN.

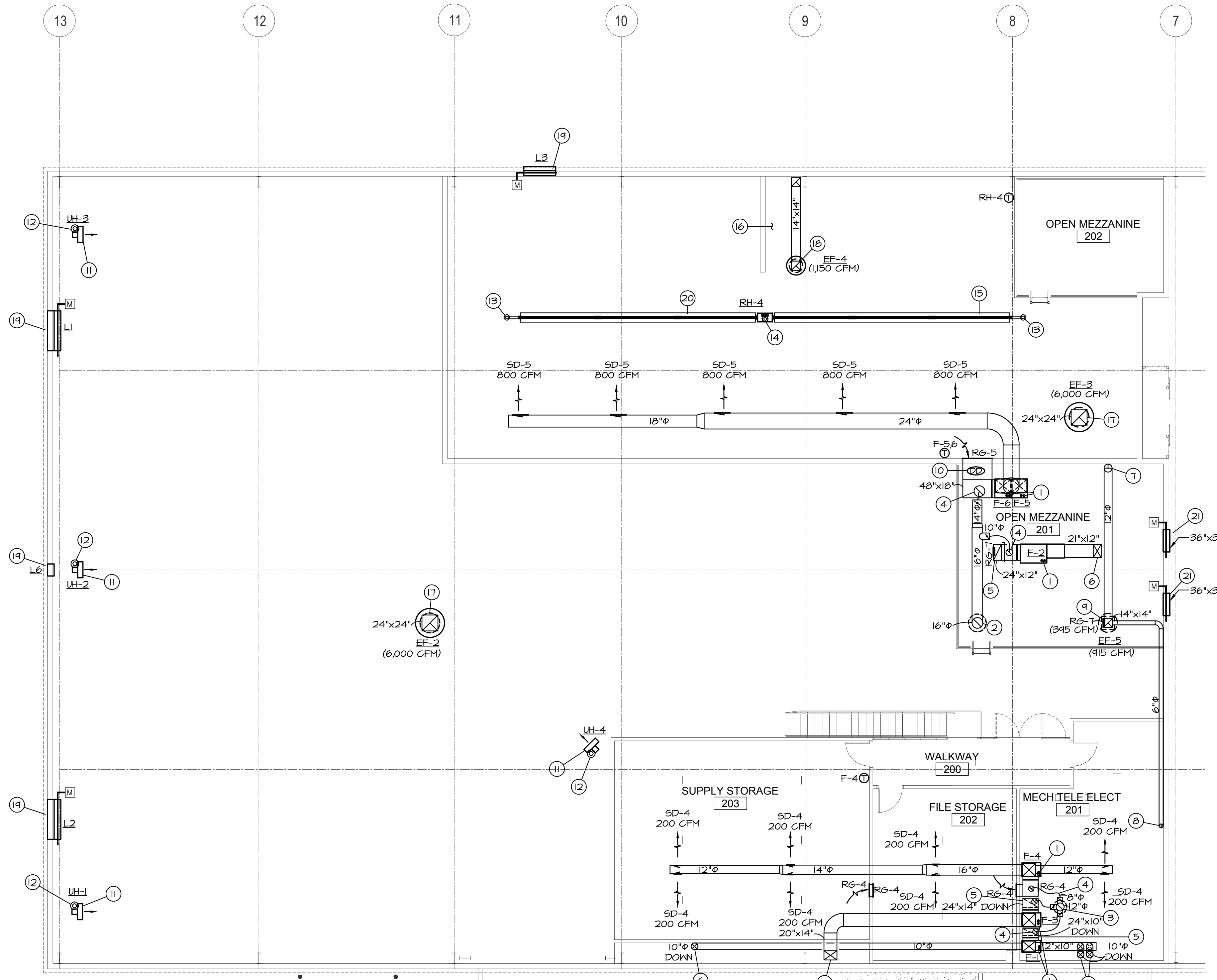


GAS SENSING SYSTEM CONTROL DETAIL

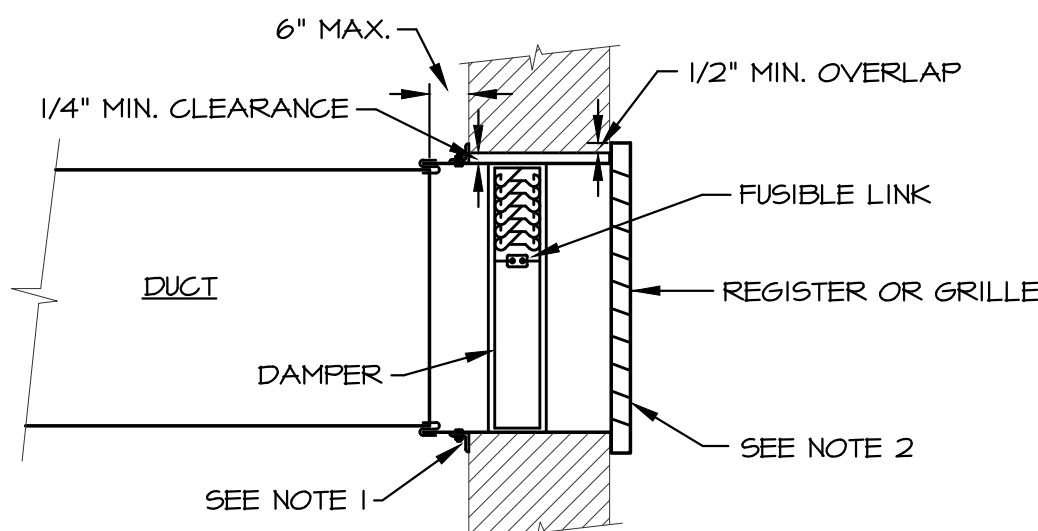
REV/DAT:

MECHANICAL PLAN NOTES:

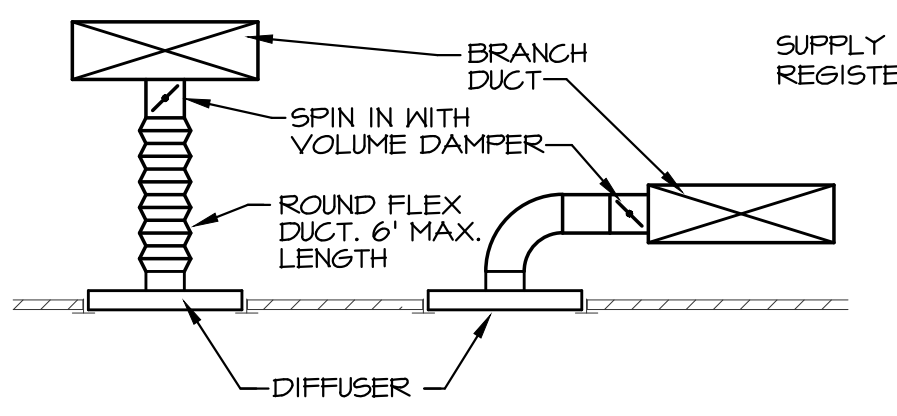
- ① 3"Ø CPVC FLUE & COMBUSTION AIR INTAKE UP THROUGH ROOF TO MANUFACTURE'S VENT TERMINATION AS REQUIRED. OFFSET AS REQUIRED TO MAINTAIN 10" CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATIONS WEATHER TIGHT.
- ② ROUTE 16"Ø OUTDOOR AIR INTAKE DUCT UP THROUGH ROOF TO ROOF CAP. FLASH AND SEAL AS REQUIRED BY METAL BUILDING MANUFACTURER.
- ③ ROUTE 12"Ø OUTDOOR AIR INTAKE DUCT UP THROUGH ROOF TO ROOF CAP. FLASH AND SEAL AS REQUIRED BY METAL BUILDING MANUFACTURER.
- ④ CONNECT OUTDOOR AIR DUCT WITH BALANCING DAMPER TO RETURN AIR DUCT. REFER TO OUTDOOR AIR CALCULATIONS FOR MINIMUM OUTDOOR AIR.
- ⑤ R.A. DUCT DOWN THROUGH MEZZANINE TO LOWER LEVEL. SEE SHEET M-101 FOR CONTINUATION.
- ⑥ SUPPLY AIR DUCT DOWN THROUGH MEZZANINE TO LOWER LEVEL. SEE SHEET M-101 FOR CONTINUATION.
- ⑦ 12"Ø EXHAUST DUCT UP FROM LOWER LEVEL. ROUTE UP AND CONNECT TO EXHAUST FAN ON ROOF.
- ⑧ 6"Ø EXHAUST DUCT UP FROM LOWER LEVEL. ROUTE UP AND CONNECT TO EXHAUST FAN ON ROOF.
- ⑨ 14"x14" EXHAUST DUCT ROUTED UP THROUGH ROOF TO EXHAUST FAN. TRANSITION AND CONNECT TO FAN PER THE MANUFACTURERS REQUIREMENTS. INSTALL RG-7 IN DUCT WITH CONTROL DAMPER FOR WAREHOUSE EXHAUST.
- ⑩ LOCATION OF DUCT MOUNTED SMOKE DETECTOR. DETECTOR PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- ⑪ SUPPORT UNIT FROM STRUCTURE AS REQUIRED BY THE MANUFACTURER. PROVIDE ADDITIONAL SUPPORT STEEL AND VIBRATION ISOLATION AS REQUIRED.
- ⑫ 6"Ø TYPE 'B' DOUBLE WALL FLUE UP THROUGH ROOF. PROVIDE ROOF THIMBLE, FLASHING, COUNTER FLASHING & WEATHERHEAD. LOCATE WEATHERHEAD 36" ABOVE EVERYTHING WITHIN 10'. VERIFY 10'-0" FROM ALL OUTDOOR AIR INTAKES.
- ⑬ PROVIDE MANUFACTURERS REQUIRED FLUE TERMINATION KIT FOR RADIANT TUBE HEATERS. PROVIDE ROOF THIMBLE, FLASHING, COUNTER FLASHING & WEATHERHEAD. LOCATE WEATHERHEAD 36" ABOVE EVERYTHING WITHIN 10'. VERIFY 10'-0" FROM ALL OUTDOOR AIR INTAKES.
- ⑭ PROVIDE MANUFACTURERS REQUIRED FRESH AIR INTAKE KIT FOR RADIANT TUBE HEATERS. PROVIDE ROOF THIMBLE, FLASHING, COUNTER FLASHING & WEATHERHEAD.
- ⑮ A REFLECTOR SHIELD WILL BE REQUIRED TO BE MOUNTED ON ANY COMBUSTIBLE MATERIALS WITHIN THE CLEARANCE ZONE SPECIFIED BY THE RADIANT TUBE HEATER MANUFACTURER. COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE ALUMINUM SHIELD WITH A 1" AIR GAP.
- ⑯ COORDINATE WITH OWNER FOR VENTING REQUIREMENTS OF PART WASHER/DIP TANK. PROVIDE AND INSTALL AS NECESSARY.
- ⑰ CONNECT DUCTWORK TO FAN AS REQUIRED BY THE MANUFACTURER AND EXTEND 24" DOWN INTO THE SPACE. COORDINATE WITH METAL BUILDING MANUFACTURER FOR CURB AND ALL ROOFING WORK.
- ⑱ CONNECT DUCTWORK TO FAN AS REQUIRED BY THE MANUFACTURER. ROUTE DOWN WALL AND TERMINATE AT 12" AFF. COORDINATE WITH METAL BUILDING MANUFACTURER FOR CURB AND ALL ROOFING WORK.
- ⑲ MOUNT BOTTOM OF LOUVER AT 16". INTERLOCK AS DETAILED IN CONTROL SEQUENCE.
- ⑳ SUPPORT RADIANT HEATERS AT 20" AFF PER THE MANUFACTURERS REQUIREMENTS. PROVIDE LOWER CLEARANCE SHIELD IF REQUIRED FOR CLEARANCE TO COMBUSTIBLES.
- ㉑ SEE SHEET M-102 FOR LOUVER DETAILS.



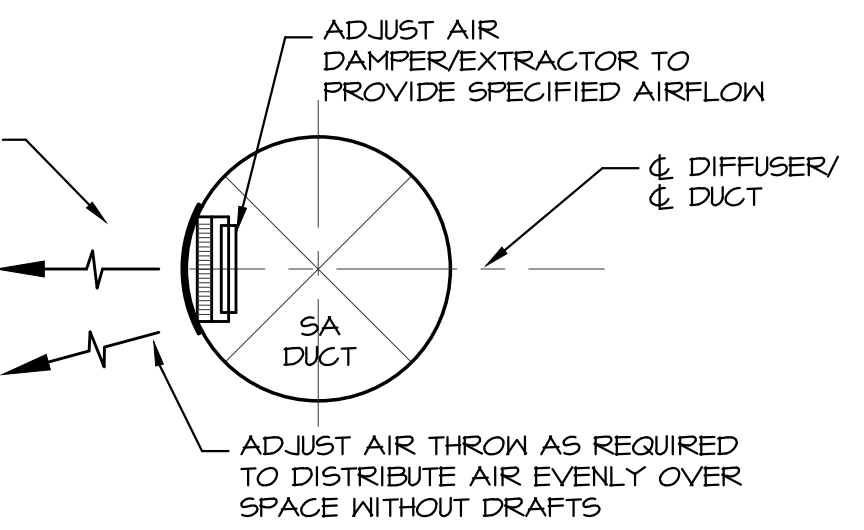
MECHANICAL PARTIAL MEZZANINE LEVEL FLOOR PLAN SOUTH
 SCALE: 1/8" = 1'-0"



1. MOUNTING ANGLES SHALL BE A MINIMUM OF 1-1/2"x 1-1/2"x 1/2" 16 GAGE, BOLTED WITH 1/4"x 20 BOLTS WELDED, OR SCREWED WITH NO. 10 SCREWS TO DAMPER FRAME. USE MINIMUM OF 2 FASTENERS PER SIDE, ONE FASTENER 1/2" FROM EACH CORNER WITH A MAXIMUM FASTENER SPACING OF 8-1/2".
 2. GRILLE IS TO BE SCREWED TO 3/4"x 3/4"x 20 GAGE ANGLES PROVIDED WITH DAMPER. DO NOT SCREW GRILLE TO WALL.
- FIRE DAMPER AT WALL REGISTER DETAIL**
 SCALE: NONE



DIFFUSER DETAIL
 SCALE: NONE



SUPPLY REGISTER DETAIL
 SCALE: NONE

REV/DATE:

REVISIONS:	DATE	DESCRIPTION
04-06-12		REMOVED UNDERFLOOR HEATING SYSTEM

PROJECT NO:	11699
SCALE:	AS SHOWN
DATE:	03-28-12
DESIGNED BY:	BQ-DS
DRAWN BY:	BQ-DS
CHECKED BY:	EK-RWC
SHEET TITLE:	
PARTIAL MEZZ LEVEL MECHANICAL PLAN SOUTH	
SHEET NO. M-201	
SHEET OF	

EXHAUST FAN SCHEDULE									
MARK	MFG	MODEL	CFM	EXTERNAL STATIC P. IN. WG.	RPM	ELECTRICAL		FAN TYPE	REMARKS
						VOLT/PHZ	PWR		
EF-1	COOK	GN-520	300	0.25	1129	120/1/60	126 W	INLINE	FLUID STORAGE
EF-2		225 ACEB	6,000		884	208/3/60	1-1/2 HP	ROOF EXHAUST	WAREHOUSE COOLING
EF-3									REBUILD SHOP COOLING
EF-4		ACED 120G15D	1,150	0.5	1237	120/1/60	1/4 HP		REBUILD SHOP O/A
EF-5			915		1212				RESTROOMS/ WAREHOUSE O/A
EF-6		30HXEM8B	9,500	0.375	808	208/3/60	1-1/2 HP	ROOF EXHAUST	REPAIR SHOP
EF-7									REPAIR SHOP

- NOTES:
- PROVIDE INSULATED 18" HIGH (AT LOWEST POINT) ROOF CURB BY METAL BUILDING CONTRACTOR, BACKDRAFT DAMPER, BIRD SCREEN, AND NON-FUSED DISCONNECT FOR EF-2, EF-3, EF-4, EF-5, EF-6, AND EF-7.
 - PROVIDE INTEGRAL BACK DRAFT DAMPER, VARI-SPEED CONTROLLER, NON-FUSED DISCONNECT, AND WALL CAP FOR EF-1.
 - PROVIDE VARIABLE SPEED CONTROLLER FOR EF-4, AND EF-5.
 - PROVIDE MAGNETIC MOTOR STARTERS AND INTERLOCK EF-6 AND EF-7 TO OPERATE WHEN ENGAGED BY GAS SENSING CONTROL PANEL. SEE SEQUENCE OF OPERATION OF GAS SENSING PANEL. FANS ARE TO BE WIRED TO OPERATE WHEN LOUVERS L-1, L-2, L-4, AND L-5 ARE OPEN.
 - PROVIDE MAGNETIC STARTER WITH ON/OFF SWITCH FOR EF-2. COORDINATE WITH OWNER FOR SWITCH LOCATION. FAN IS TO OPERATE WHEN LOUVERS L-1 AND L-2 ARE OPEN.
 - PROVIDE MAGNETIC STARTER WITH ON/OFF SWITCH FOR EF-3. COORDINATE WITH OWNER FOR SWITCH LOCATION. FAN IS TO OPERATE WHEN LOUVER L-3 IS OPEN.
 - EF-4, AND EF-5 ARE TO RUN CONTINUOUSLY WHEN THE BUILDING IS OCCUPIED.
 - EF-1 IS TO RUN CONTINUOUSLY.

LOUVER/DAMPER SCHEDULE							
MARK	MFG	MODEL	CFM	SIZE	FREE AREA	NOTES	
L-1	RUSKIN	ELC6375DAX	12,500	72"x60"	14.22 sq ft	1,2,3,5	
L-2						1,2,3,5	
L-3			6,000	48"x52"	8.52 sq ft	1,2,4,5	
L-4		CD40	9,500	36"x36"	7.08 sq ft	2,7	
L-5							
L-6							
L-7		ELBD812	275	18"x12"	0.48 sq ft	1,5	

- NOTES:
- PROVIDE WITH BIRDSCREEN.
 - PROVIDE WITH RLH-120-S, 120V MOTORIZED, TWO POSITION, SPRING RETURN ACTUATOR WITH INTERNAL END SWITCHES. INTERLOCK WITH EXHAUST FANS TO ENERGIZE FAN WHEN DAMPER IS FULLY OPEN.
 - INTERLOCK TO OPEN DAMPER UPON ACTIVATION OF EF-2, EF-6, OR EF-7.
 - INTERLOCK TO OPEN DAMPER UPON ACTIVATION OF EF-3.
 - LOUVERS ARE TO BE FIELD PAINTED TO MATCH THE BUILDING EXTERIOR.
 - INTERLOCK TO OPEN DAMPER UPON ACTIVATION OF EF-6, OR EF-7.

DIFFUSER SCHEDULE						
MARK	MFG	MODEL	NECK SIZE	FACE SIZE	FINISH	REMARKS
SD-1	TITUS	TMS/3	10"φ	24"x24"	WHITE	-
SD-2			8"φ			-
SD-3		TMS/1	6"φ	12"x12"		-
SD-4		530IFL	12"x6"	-	CLEAR ANNOXIDIZED	WITH AIR SCOOP DAMPER
SD-5			24"x10"	-		
RG-1		50F	-	24"x24"	WHITE	-
RG-2			-	12"x24"		-
RG-3		PAR/3	10"φ	24"x24"		-
RG-4		350RL	18"x14"	-		-
RG-5			36"x14"	-		WITH O.B. DAMPER
RG-6			12"x6"	-		-
RG-7			12"x12"	-		WITH O.B. DAMPER
RG-8		T-700	12"x12"	-		WITH AUXILIARY FRAME
EG-1		PAR/3	12"φ	24"x24"		
EG-2			6"φ	12"x24"		

GAS SENSING SYSTEM SCHEDULE	
GS-1	HONEYWELL ANALYTICS CARBON MONOXIDE AND NITROGEN DIOXIDE GAS SENSING AND ALARM SYSTEM. PROVIDE AND INSTALL (1) VA301C-DLC CONTROLLER WITH DATALOGGER, RELAY MODULE WITH 4 RELAYS, (4) E3SM5CO E3POINT WITH CO SENSOR, WALL MOUNT, MODBUS 24VAC/DC, (4) E3SM E3POINT WITHOUT SENSOR, WALL MOUNT MODBUS 24VAC/DC, (4) E3NO2 NITROGEN DIOXIDE (NO2) -40° TO 50°C E3POINT SENSOR CARTRIDGE, (1) P2K-P 2-WIRE HORN STROBE, STANDARD CANDELA 12 OR 24VDC, (1) MP120K 120VAC ADAPTER MOUNTING PLATE, (1) LENS-B WALL MOUNT LENS ATTACHMENT, (1) T200VAC2 CLASS 2 TRANSFORMER 200VA, (1) B09K0002 CAL KIT 58-103L CYLINDERS, (1) M-501054 CAL GAS 58L CYLINDER 3PPM NO2 BAL N2, (1) M500988 CAL GAS 103L CYLINDER 200PPM CO BAL N2, ANDY SMITH - COMMERCIAL MIDWEST 452-441-1903

GAS FIRED INFRARED HEATER SCHEDULE						
MARK	MFG	MODEL	HEATING (GAS)		ELECTRICAL	REMARKS
			BTUH INPUT	BTUH OUTPUT		
RH-1	ROBERTS GORDON	GTH TF-250	250,000		120/1/60	100'-0" TWIN FIRE, CENTER BURNER
RH-2						
RH-3						
RH-4		GTH TF-200	200,000		60'-0"	

- NOTES:
- PROVIDE ALL UNITS WITH CONTROL VOLTAGE TRANSFORMER, THERMOSTAT, 4"φ COMBUSTION AIR INTAKE & WEATHERPROOF CAP, (2) 4"φ FLUES & WEATHERPROOF CAPS, HANG CHAINS, ETC., REQUIRED FOR A COMPLETE SYSTEM

GAS FIRED UNIT HEATER SCHEDULE								
MARK	MFG	MODEL	CFM	HEATING (GAS)		ELECTRICAL		REMARKS
				BTUH INPUT	BTUH OUTPUT	VOLT/PHZ	HP	
UH-1	LENOX	LF24-250A	4,400	250,000	201,250	120/1/60	1/8	-
UH-2								
UH-3								
UH-4								

- NOTES:
- PROVIDE EACH UNIT ELECTRONIC PILOT IGNITION & ALUMINIZED STEEL HEAT EXCHANGER.
 - PROVIDE EACH UNIT WITH UNIT MOUNTED THERMOSTAT & CONTROL VOLTAGE TRANSFORMER.

ELECTRIC UNIT HEATER SCHEDULE						
MARK	MFG	MODEL NO.	BTUH	ELECTRICAL		NOTES
				VOLT/PHZ	WATTS	
UH-5	RAYWALL	E2FRI03N	11,200	208/3/60	3,300	NOTE 1
UH-6						

- NOTES:
- PROVIDE MOUNTING BRACKET, INTEGRAL DISCONNECT & INTEGRAL THERMOSTAT FOR EACH UNIT.

ELECTRIC CEILING MOUNTED CABINET HEATER SCHEDULE						
MARK	MFG	MODEL NO.	BTUH	ELECTRICAL		NOTES
				VOLT/PHZ	WATTS	
CH-1	MARKEL	F3484	13,600	208/1/60	4,000	1, 2

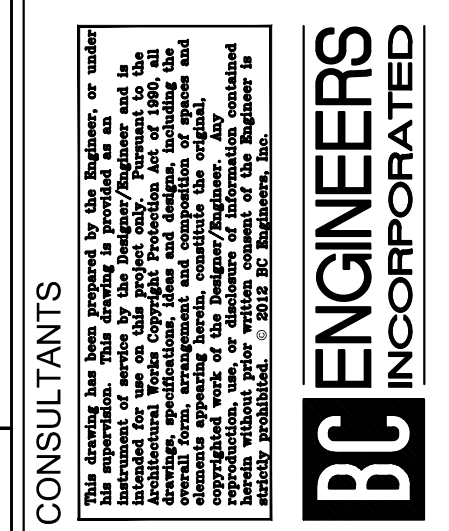
- NOTES:
- PROVIDE INTEGRAL DISCONNECT & WALL MOUNTED THERMOSTAT FOR EACH UNIT.
 - PROVIDE APPROPRIATE MOUNTING BRACKET TO RECESS MOUNT UNIT.

GAS FURNACE SCHEDULE										
MARK	MFG	MODEL NO.	CFM	EXT. STATIC P. IN. WG.	HEATING (GAS)		ELECTRICAL		OUTSIDE AIR (CFM)	REMARKS
					BTUH INPUT	BTUH OUTPUT	VOLT/PHZ	HP		
F-1	LENOX	ML193UH070P24B	800	0.6	66,000	62,000	115/1/60	1/5	76	-
F-2									85	-
F-3		ML193UH10P48C	1,600	0.5	110,000	104,000		1/2	371	-
F-4									281	-
F-5		ML193UH135P60D	2,000	0.8	132,000	123,000		1	445	TWINNED
F-6									445	TWINNED

- NOTES:
- PROVIDE 1" THICK THROWAWAY TYPE FILTER WITH HOLDING FRAME FOR EACH UNIT.
 - PROVIDE EACH UNIT WITH 7-DAY PROGRAMMABLE HEAT/COOL/AUTO CHANGEOVER THERMOSTAT.
 - CONDENSING UNITS, COOLING COILS, AND FURNACES SHALL ALL BE OF THE SAME MANUFACTURER.
 - UNITS F-5 AND F-6 ARE TWINNED. PROVIDE TWINNING KIT AS NECESSARY.
 - EXTERNAL STATIC PRESSURE LISTED REPRESENTS STATIC PRESSURE REQUIRED FOR DUCTWORK AND DIFFUSERS OUTSIDE THE HVAC UNIT COMPLETELY INDEPENDENT OF ANY PRESSURE DROP THROUGH THE HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO FILTERS AND COILS.
 - PROVIDE GALVANIZED WATERTIGHT DRAIN PAN AND CONDENSATE FLOAT SWITCH TO DE-ENERGIZE THE FURNACE IF THE DRAIN PAN FILLS WITH WATER.

CONDENSING UNIT SCHEDULE							
MARK	MFG	MODEL NO.	COOLING			ELECTRICAL	REMARKS
			TOTAL BTUH	SENS. BTUH	AMB. EVAP. EAT DB/MB		
CU-1	LENOX	13ACX024	24,000	17,500	105	208/1/60	C33-25B
CU-2							CH33-25B
CU-3		TSA048	48,000	35,000		208/3/60	C33-49C
CU-4							
CU-5		TSA060	60,000	43,000			C33-60D
CU-6							

- NOTES:
- PROVIDE TIME DELAY ON COMPRESSOR RE-START, CRANKCASE HEATER, AND COMPRESSOR LOCK-OUT WITH AMBIENT BELOW 35 °F.
 - PROVIDE FUSED DISCONNECT FOR EACH UNIT.
 - PROVIDE CONCRETE OR PRE-MAUFACTURED POLYOLEFIN PAD FOR EACH UNIT.



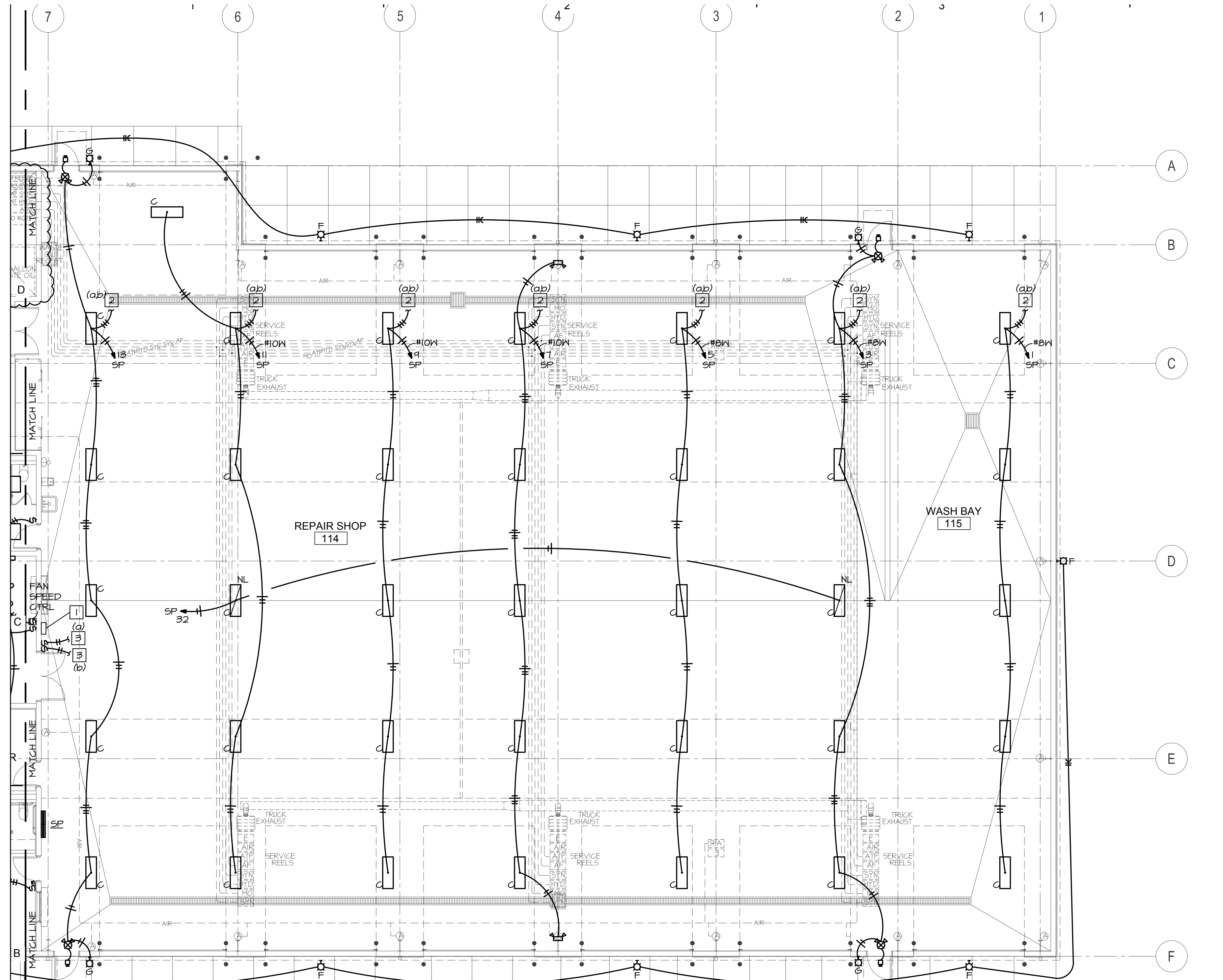
REVISIONS:	DATE	DESCRIPTION
04-06-12		REMOVED UNDERFLOOR HEATING SYSTEM

PROJECT NO: 11699
 SCALE: AS SHOWN
 DATE: 03-28-12
 DESIGNED BY: BQ-DS
 DRAWN BY: BQ-DS
 CHECKED BY: EK-RWC

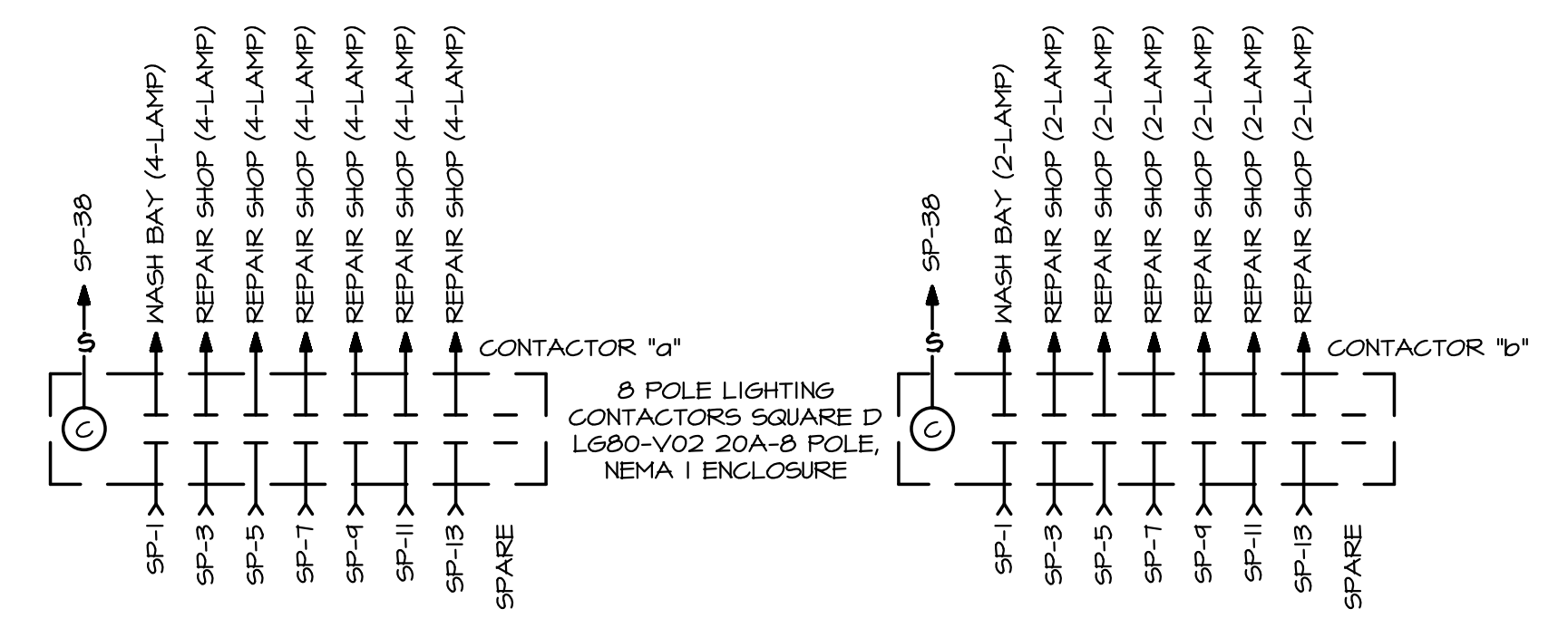
SHEET TITLE:
MECHANICAL EQUIPMENT SCHEDULES

SHEET NO.
M-402

SHEET OF

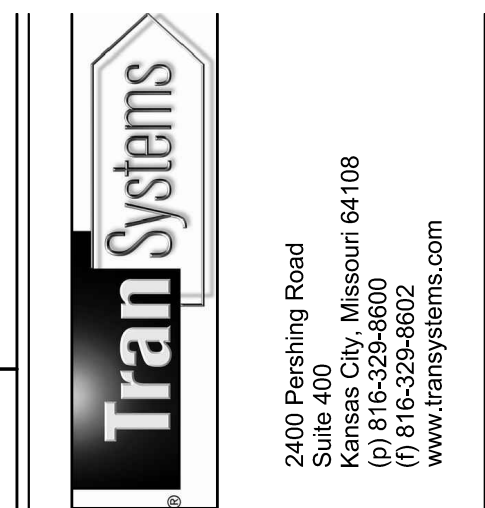
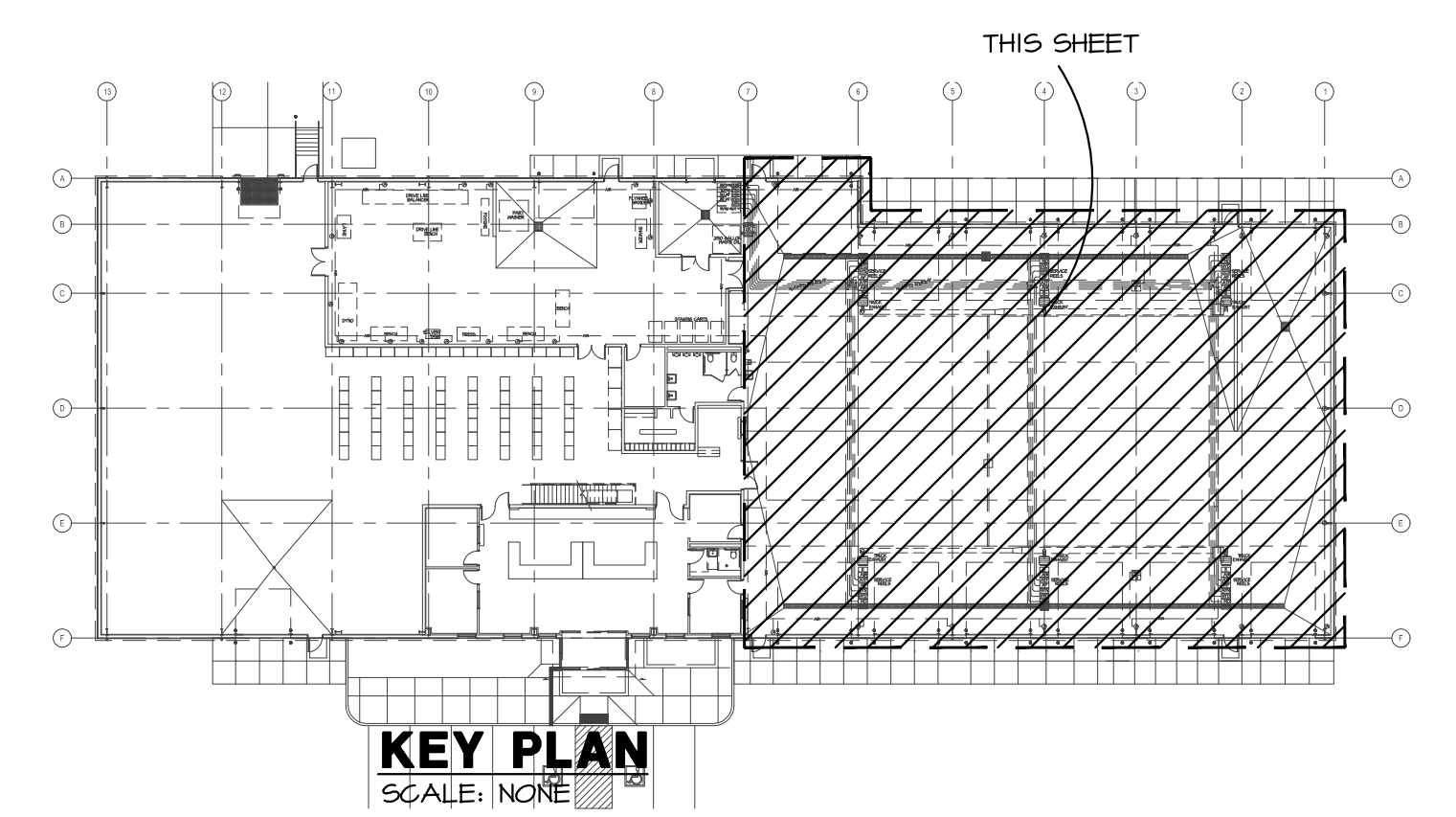


PARTIAL 1ST FLOOR ELECTRICAL LIGHTING PLAN - NORTH
 NORTH
 SCALE: 1/8" = 1'



REPAIR SHOP LIGHTING CONTROL DIAGRAM
 SCALE: NONE

- LIGHTING PLAN NOTES:**
- REPAIR SHOP LIGHTING CONTACTORS. SEE CONTROL DETAIL, THIS SHEET.
 - ROUTE SWITCHLEGS OF CIRCUIT THROUGH LIGHTING CONTACTORS INDICATED. 4-LAMP BALLAST TO BE SWITCHED SEPARATE FROM 2-LAMP BALLAST. SEE LIGHTING CONTROL DIAGRAM, THIS SHEET.
 - CONNECT SWITCHES TO LIGHTING CONTACTORS INDICATED. SEE LIGHTING CONTROL DIAGRAM, SHEET E4.0.



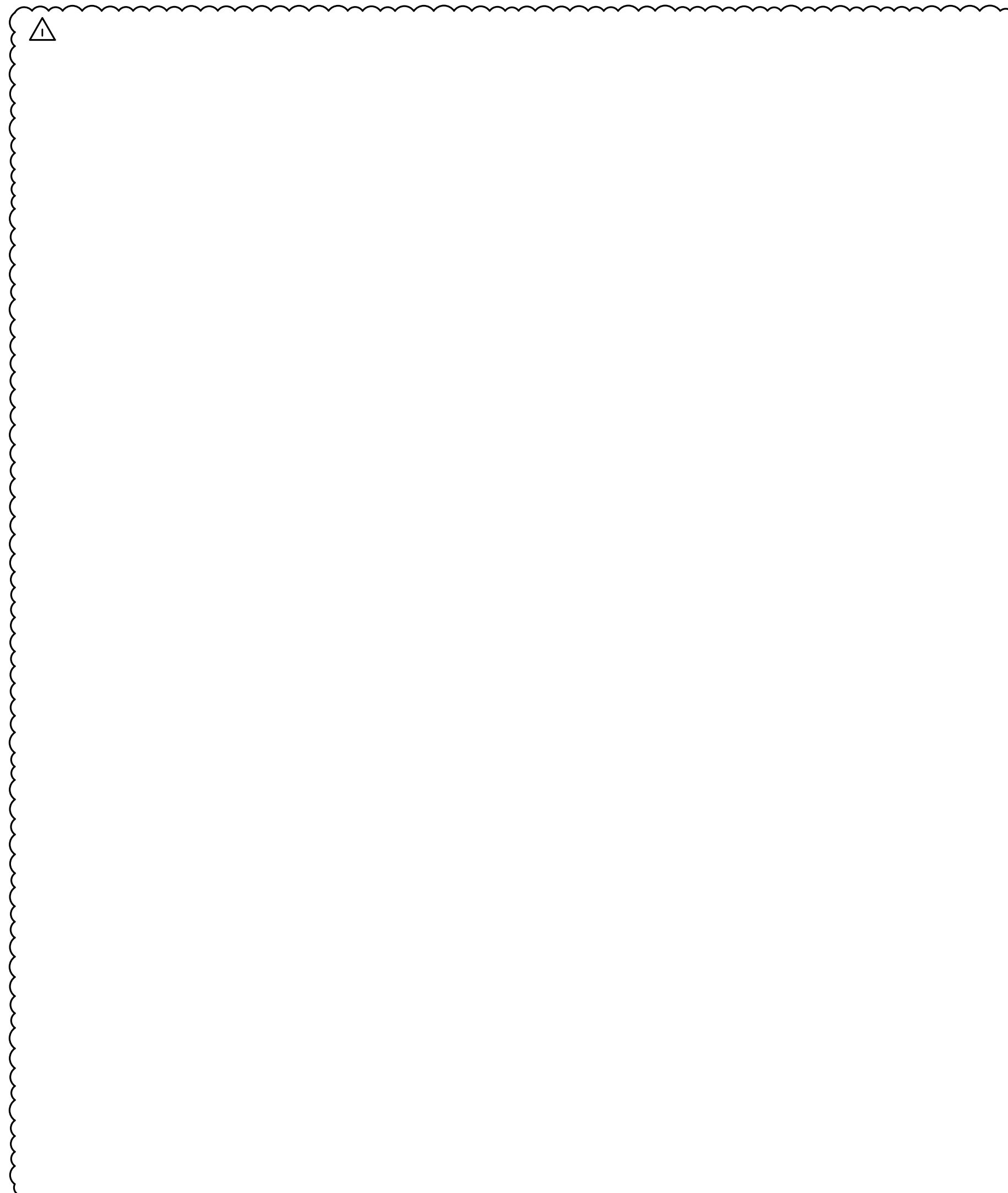
REVISIONS:	MARK	DATE	DESCRIPTION
04-06-12			REMOVED UNDERFLOOR HEATING SYSTEM

PROJECT NO: 11699
 SCALE: AS SHOWN
 DATE: 03-28-12
 DESIGNED BY: BO-DS
 DRAWN BY: BO-DS
 CHECKED BY: EK-RWC

SHEET TITLE:
ELECTRICAL LIGHTING PLAN NORTH

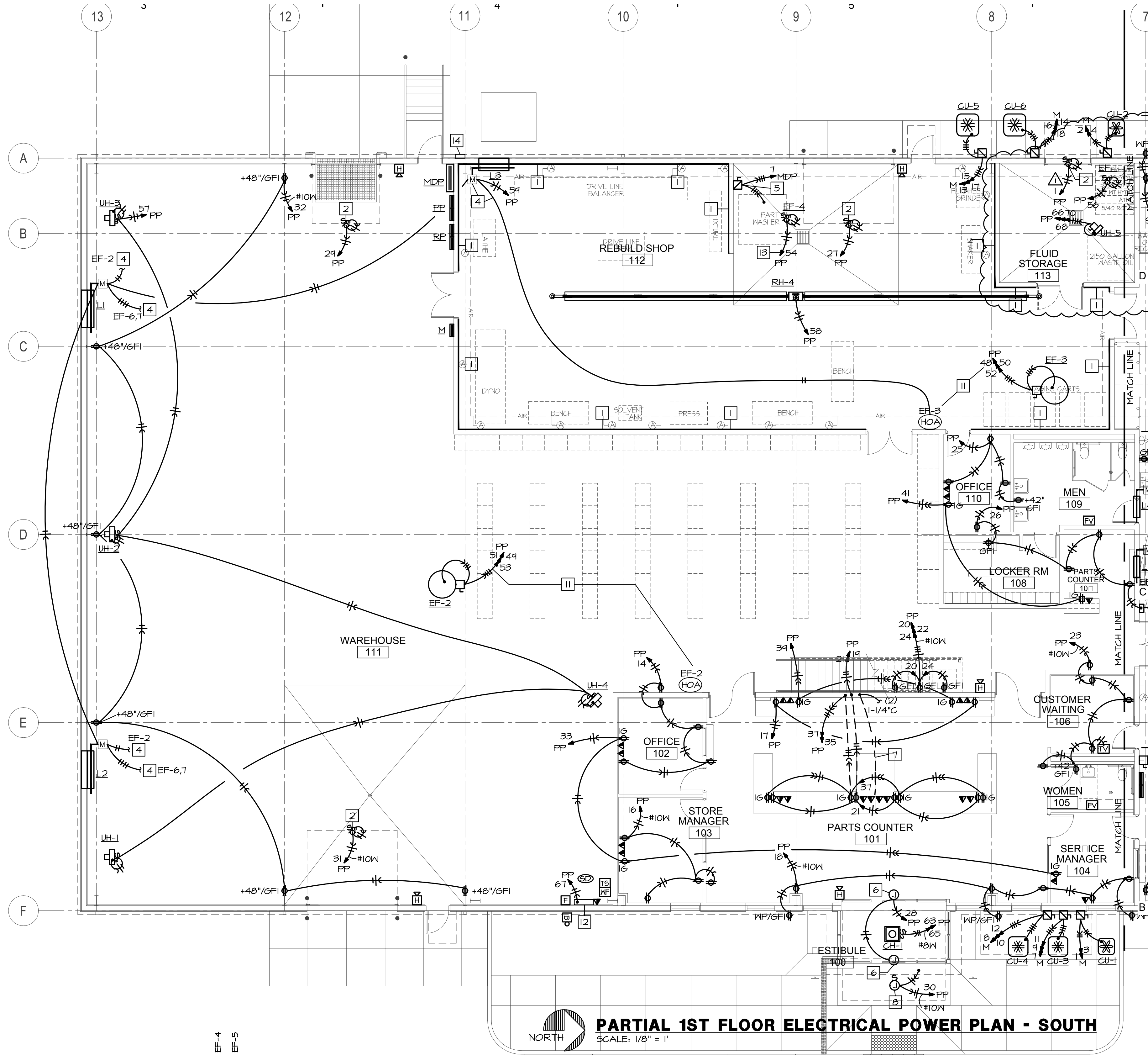
SHEET NO.
E-102
 OF

REV/DATE:

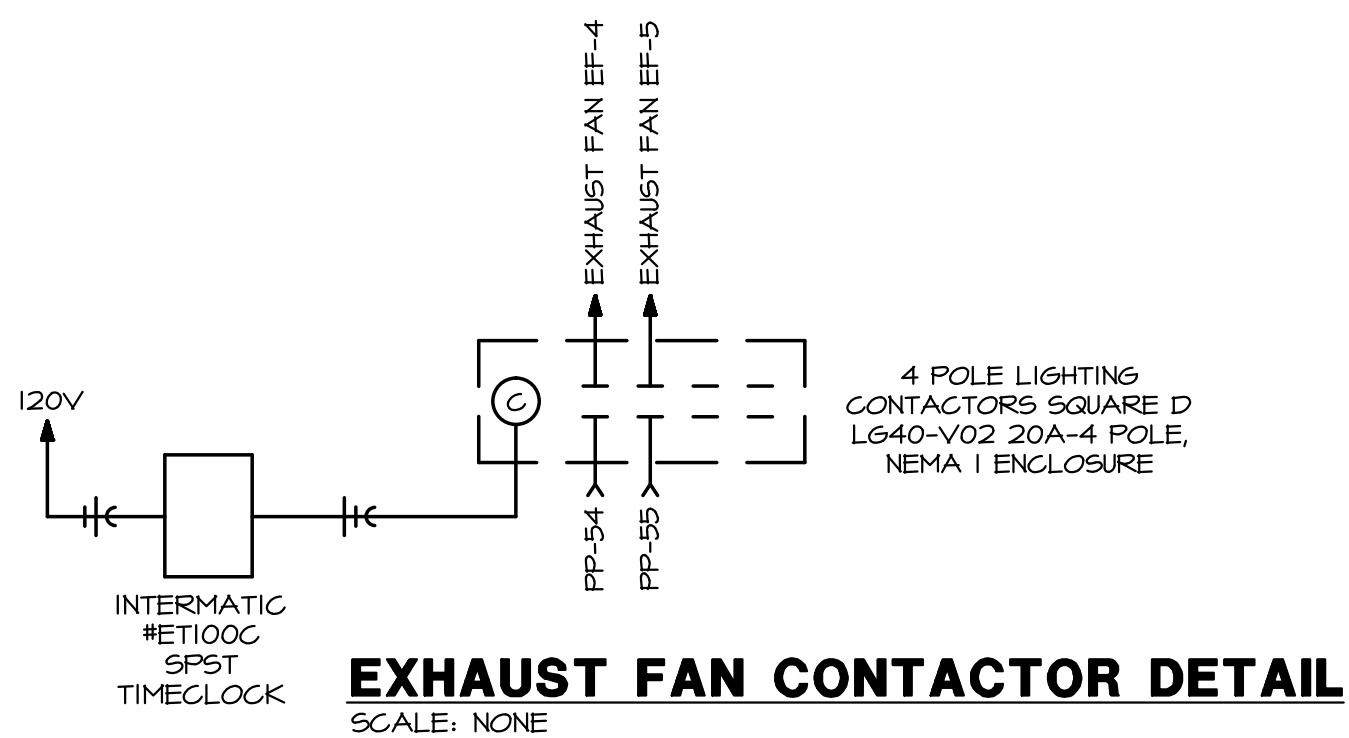


ELECTRICAL PLAN NOTES:

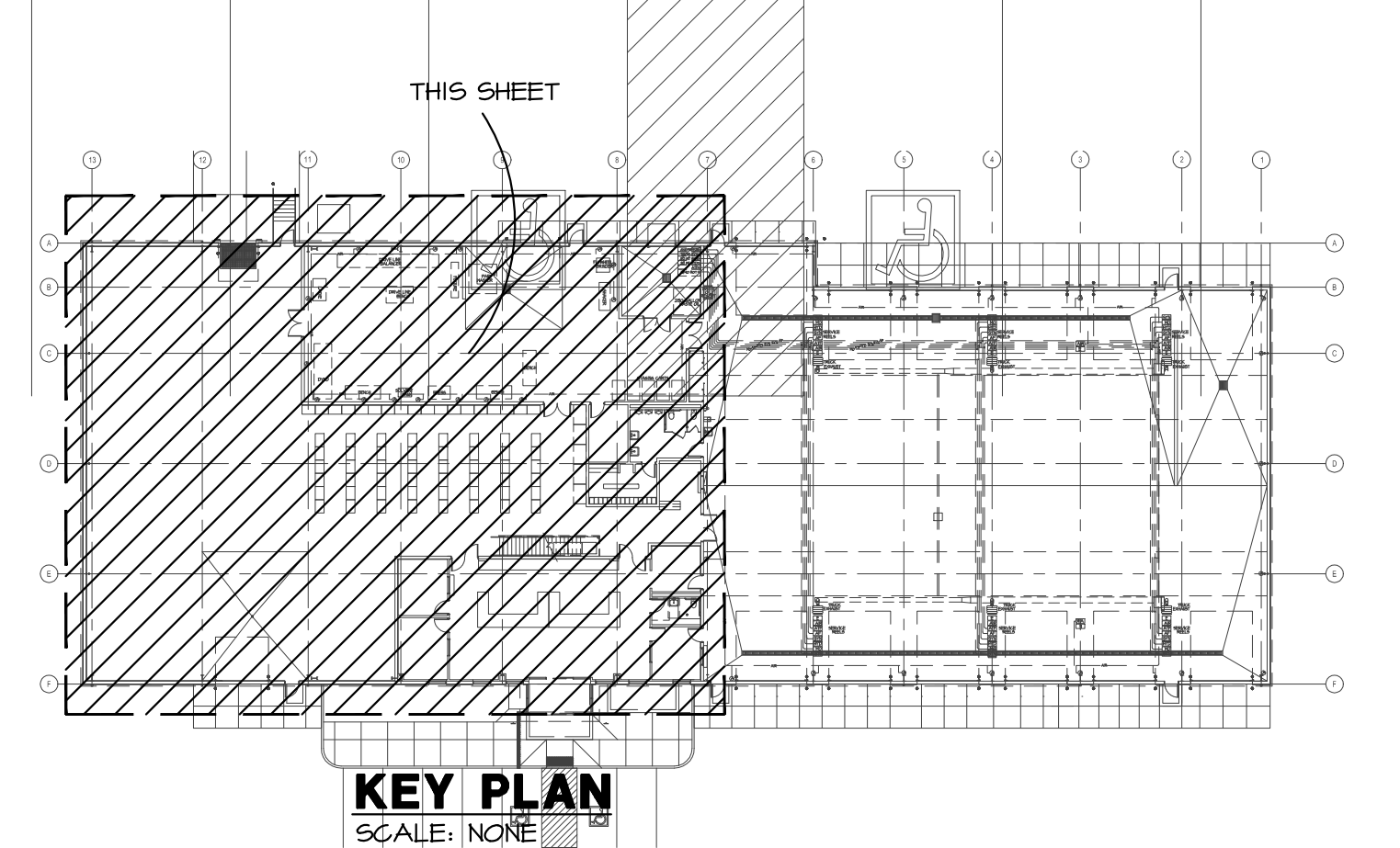
- 1 PROVIDE WIREMOLD #66000 OR EQUAL TWO-PIECE SURFACE METAL RACEWAY IN LENGTH INDICATED. MOUNT RACE WAY 48" AFF. PROVIDE ALL NECESSARY FITTINGS, END CAPS, AND HARDWARE FOR A COMPLETE INSTALLATION.
- 2 JUNCTION BOX FOR CONNECTION TO OVERHEAD DOOR OPERATOR. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE CONTROL WIRING AND FINAL TERMINATION TO LOCATION DISCREET BY OWNER.
- 3 NOT USED
- 4 PROVIDE RELAY(S) AS REQUIRED TO INTERLOCK LOUVER WITH EXHAUST FAN INDICATED. WHEN VENTILATION IS CALLED FOR, MOTORIZED LOUVER DAMPER IS TO OPEN. LOUVER IS EQUIPPED WITH END-TRAVEL SWITCHES, WHICH CLOSE WHEN DAMPER IS FULLY OPEN. ONCE DAMPER IS FULLY OPEN, EXHAUST FAN MAY START. PROVIDE CONTROL WIRING BETWEEN END-TRAVEL SWITCHES AND EXHAUST FAN STARTER FOR OPERATION AS INDICATED.
- 5 FUSED DISCONNECT FOR PARTS WASHER. VERIFY EXACT LOCATION & ELECTRICAL REQUIREMENTS, CONNECT TO PARTS WASHER PER MANUFACTURER'S INSTRUCTIONS.
- 6 PROVIDE POWER FOR AUTOMATIC DOOR OPENER. COORDINATE EXACT LOCATION & REQUIREMENTS WITH DOOR SUPPLIER.
- 7 PROVIDE (2) 1-1/4" UNDER SLAB FOR PHONE & DATA CABLING TO SALES DESK. VERIFY EXACT STUB-UP LOCATION.
- 8 JUNCTION BOX WITH TOGGLE DISCONNECT PER NEC FOR CONNECTION TO BUILDING MOUNTED INTERNALLY ILLUMINATED SIGNAGE. VERIFY EXACT LOCATION & ELECTRICAL REQUIREMENTS. CONNECT TO SIGN PER SUPPLIER'S INSTRUCTIONS. ROUTE CIRCUIT TO PANEL INDICATED VIA EXTERIOR LIGHTING/SIGNAGE CONTROL, SEE DETAIL ON SHEET E101.
- 9 NOT USED
- 10 NOT USED
- 11 ROUTE CIRCUIT TO PANEL VIA STARTER. STARTER PROVIDED BY MECHANICAL CONTRACTOR.
- 12 FIRE ALARM CONTROL PANEL.
- 13 ROUTE CIRCUIT TO PANEL VIA EXHAUST CONTACTOR, CONTROLLED BY TIMECLOCK; SEE DETAIL, SHEET E201. FANS ROUTED THROUGH THIS CONTACTOR TO RUN CONTINUOUSLY WHILE THE BUILDING IS OCCUPIED.
- 14 GENERATOR CONNECTION BOX - SEE RISER DIAGRAM.



PARTIAL 1ST FLOOR ELECTRICAL POWER PLAN - SOUTH
SCALE: 1/8" = 1'



EXHAUST FAN CONTACTOR DETAIL
SCALE: NONE



KEY PLAN
SCALE: NONE

TranSystems
2400 Peabody Road
Suite 400
Kansas City, Missouri 64108
(816) 528-8600
www.transystems.com

BC ENGINEERS INCORPORATED
CONSULTANTS
7720 Becker Shuman, St. Louis, MO 63103
(314) 992-1772

INLAND TRUCK PARTS COMPANY
NEW SERVICE CENTER
N PLATTE, NEBRASKA
INLAND TRUCK PARTS COMPANY
An Employee Owned Company

REVISIONS:	DATE	DESCRIPTION
04-06-12		REMOVED UNDERFLOOR HEATING SYSTEM

PROJECT NO:	11699
SCALE:	AS SHOWN
DATE:	03-28-12
DESIGNED BY:	BQ-DS
DRAWN BY:	BQ-DS
CHECKED BY:	EK-RWC
SHEET TITLE:	
ELECTRICAL POWER PLAN SOUTH	
SHEET NO.	
E-201	
OF	

REV/DATE

1

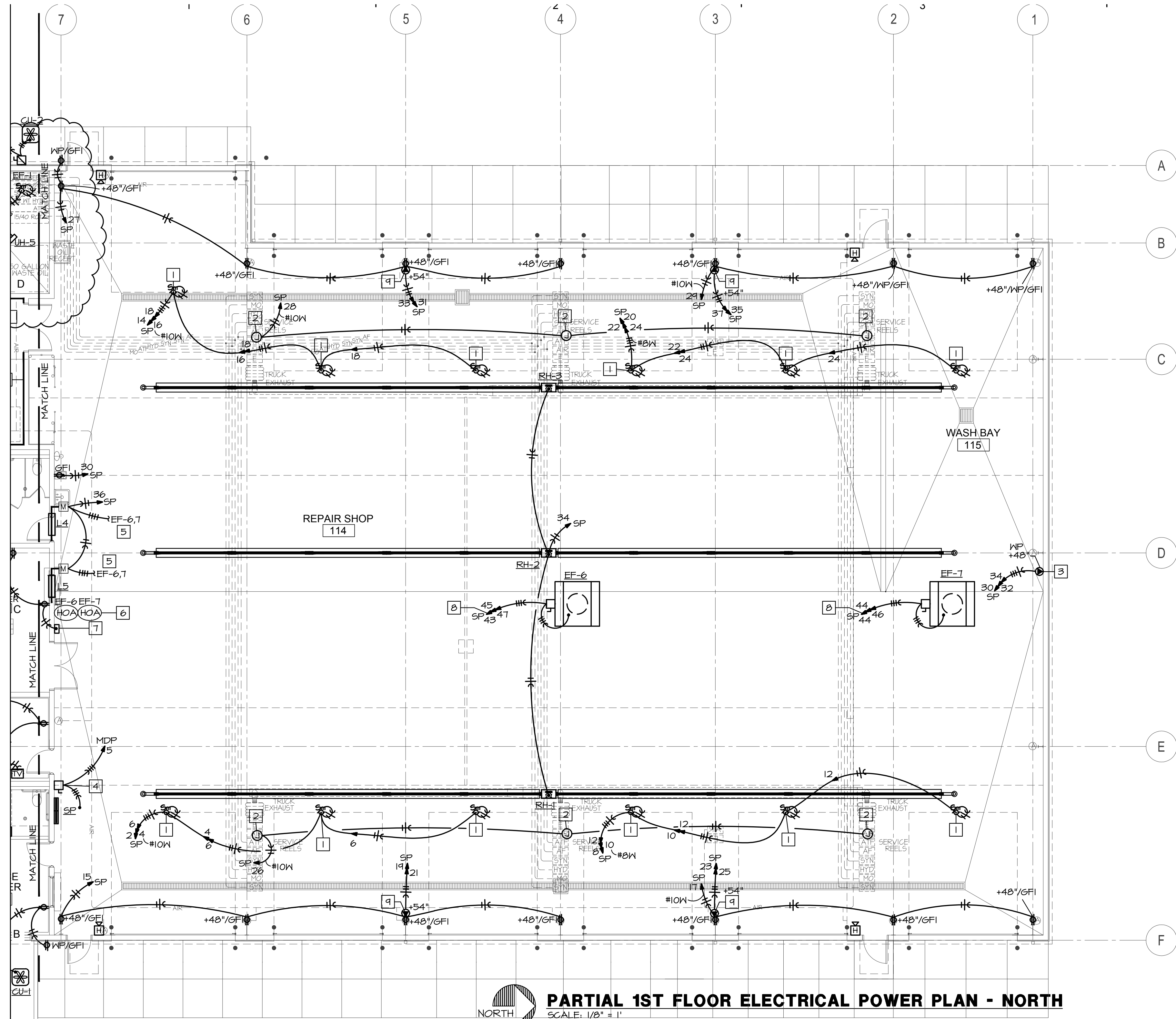
2

3

4

5

IF THIS DRAWING IS LESS THAN 24" X 36", IT IS A REDUCED SIZE DRAWING



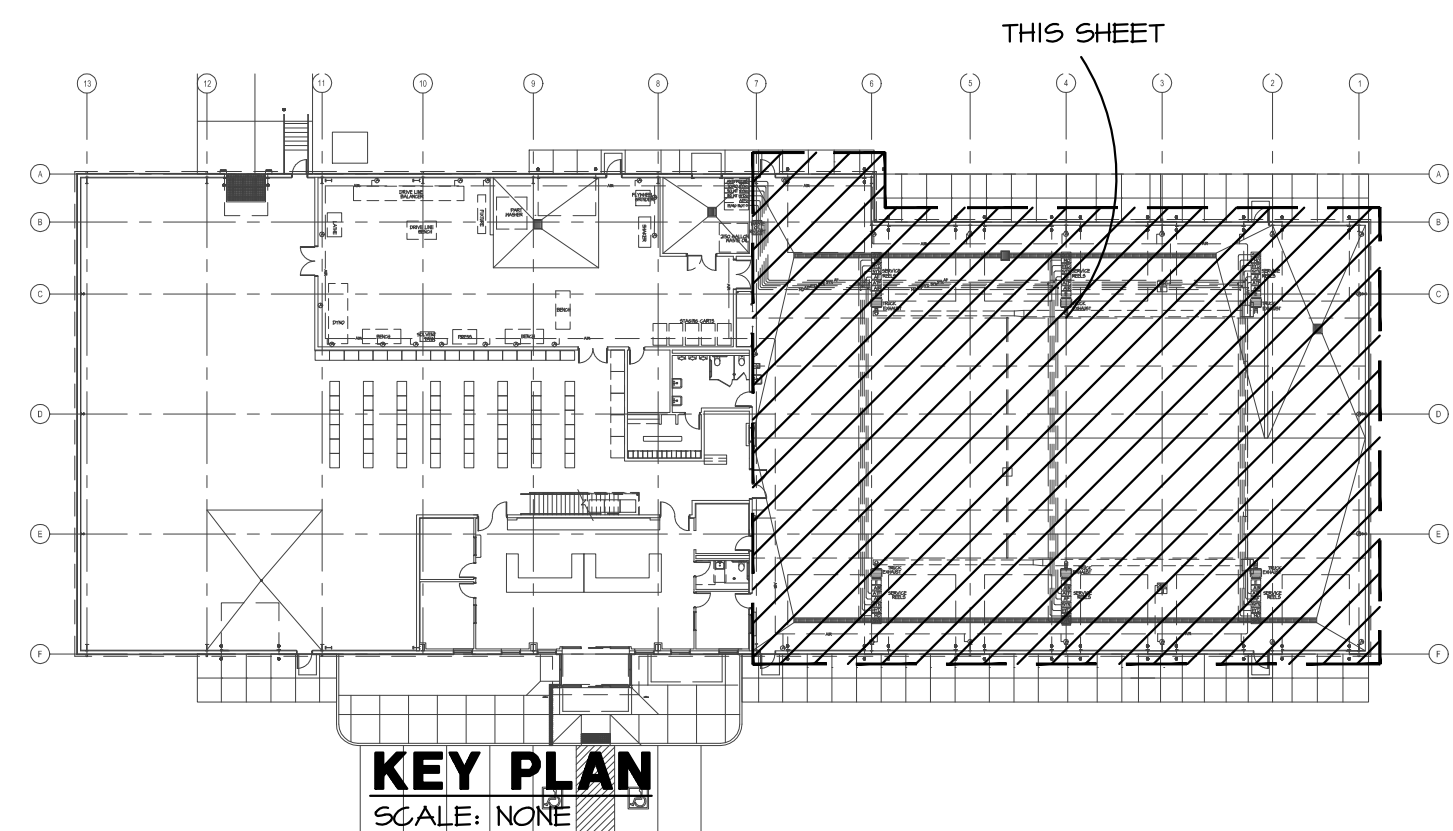
PARTIAL 1ST FLOOR ELECTRICAL POWER PLAN - NORTH
 SCALE: 1/8" = 1'

ELECTRICAL PLAN NOTES:

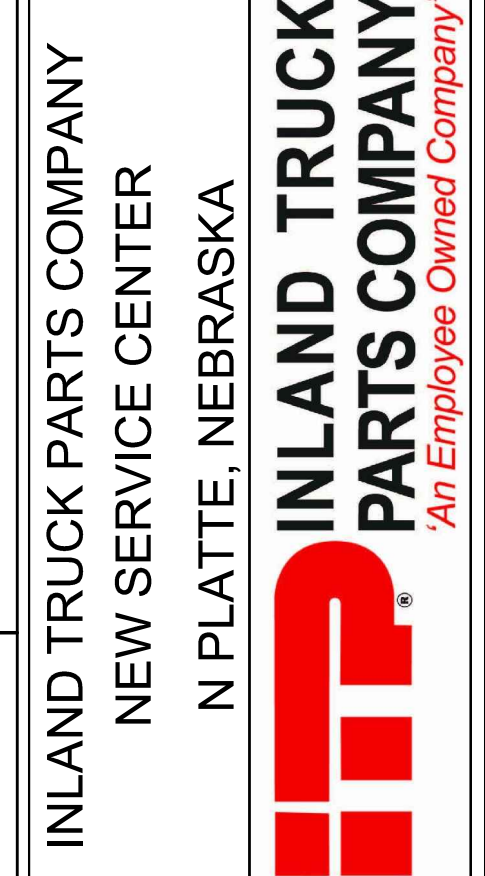
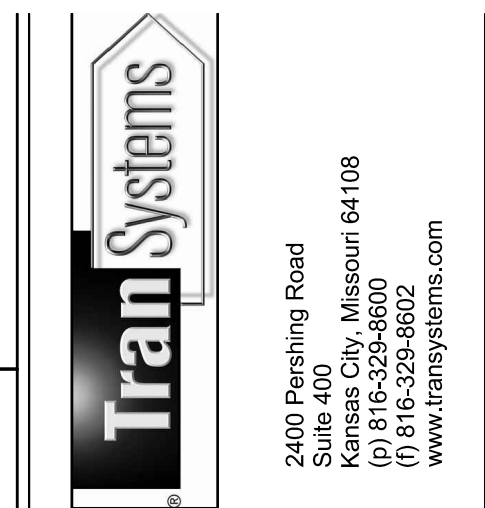
- 1 JUNCTION BOX FOR CONNECTION TO OVERHEAD DOOR OPERATOR. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE CONTROL WIRING AND FINAL TERMINATION TO LOCATION DIRECTED BY OWNER.
- 2 JUNCTION BOX FOR CONNECTION TO OVERHEAD CORD DROP REEL. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
- 3 HEAVY DUTY OUTLET FOR STEAM WASHER. VERIFY EXACT LOCATION & NEMA CONFIGURATION.
- 4 CONNECT TO OVERHEAD BRIDGE CRANE PER MANUFACTURER'S SPECIFICATIONS. VERIFY LOCATION & ALL ELECTRICAL REQUIREMENTS WITH SUPPLIER.
- 5 PROVIDE RELAY(S) AS REQUIRED TO INTERLOCK LOUVER WITH EXHAUST FAN INDICATED. WHEN VENTILATION IS CALLED FOR, MOTORIZED LOUVER DAMPER IS TO OPEN. LOUVER IS EQUIPPED WITH END-TRAVEL SWITCHES, WHICH CLOSE WHEN DAMPER IS FULLY OPEN. ONCE DAMPER IS FULLY OPEN, EXHAUST FAN MAY START. PROVIDE CONTROL WIRING BETWEEN END-TRAVEL SWITCHES AND EXHAUST FAN STARTER FOR OPERATION AS INDICATED.
- 6 MAGNETIC STARTERS PROVIDED BY HVAC CONTRACTOR. ROUTE EXHAUST FAN CIRCUIT TO PANEL INDICATED VIA RESPECTIVE STARTER. VERIFY EXACT LOCATION.
- 7 GAS SENSOR CONTROL PANEL. CONNECT TO AUXILIARY CONTACTS ON RESPECTIVE MAGNETIC STARTER WITH HOA SWITCH, WHEN CO DETECTOR IS IN ALARM CONDITION RESPECTIVE EXHAUST FAN SHALL ENERGIZE.
- 8 ROUTE CIRCUIT TO PANEL VIA TO STARTER, SEE PLAN NOTE 6.
- 9 HEAVY DUTY OUTLET FOR WELDER. VERIFY NEMA CONFIGURATION & ELECTRICAL REQUIREMENTS WITH OWNER.

GENERAL NOTES:

1. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
2. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM, REGARDLESS OF CIRCUITING INDICATED.
3. ALL EXPOSED SURFACE WALL MOUNTED RACEWAYS SHALL BE IN EMT CONDUIT WITH COMPRESSION FITTINGS AS REQUIRED.
4. DISCONNECTS FOR CONDENSING UNITS TO BE PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. ALL OTHER DISCONNECTS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. ALL CONDUITS IN REPAIR SHOP AND WASH BAY SHALL BE ROUTED OVERHEAD. ANY CONDUITS RUN UNDERGROUND TO EQUIPMENT IN REPAIR OR WASH BAY MUST BE RIGID STEEL. COORDINATE CONDUIT HANGERS WITH STRUCTURAL MEMBERS, RIGID INSULATION, AND WORK OF OTHER TRADES.
6. ALL 120 VOLT RECEPTACLES IN REPAIR SHOP AND WASH BAY SHALL BE GFI TYPE OR PROTECTED BY GFI TYPE CIRCUIT BREAKERS.



KEY PLAN
 SCALE: NONE



REVISIONS:	DATE	DESCRIPTION
04-05-12		REMOVED UNDERFLOOR HEATING SYSTEM

PROJECT NO:	11699
SCALE:	AS SHOWN
DATE:	03-28-12
DESIGNED BY:	BO-DS
DRAWN BY:	BO-DS
CHECKED BY:	EK-RWC

SHEET TITLE:
ELECTRICAL POWER PLAN NORTH

SHEET NO.
E-202
 OF

REV/DATE:

ELECTRICAL SYMBOLS LIST

CIRCUITING & NOTES

- +48" SPECIAL MOUNTING HEIGHT FOR ASSOCIATED DEVICE. (CENTERLINE OF DEVICE).
- GFI GROUND FAULT INTERRUPTER DEVICE.
- WP WEATHERPROOF ENCLOSURE ON DEVICE.
- IG ISOLATED GROUND DEVICE.
- [X] ELECTRICAL FLOOR PLAN NOTE WITH DESIGNATION.
- LP CONDUIT CONCEALED WHERE POSSIBLE OR AS NOTED, ARROWS INDICATE HOME RUN TO PANEL. CIRCUIT NUMBERS INDICATED.
- #12 WIRE IN CONDUIT, UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATION.
- GROUNDING CONDUCTOR, #12 WIRE UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATION.
- CONDUIT ROUTED UNDER SLAB.

LIGHTING

- EMERGENCY TWIN HEAD LIGHT FIXTURE.
- EXIT LIGHT WITH DIRECTIONAL ARROWS INDICATED.
- FLUORESCENT STRIP FIXTURE WITH TYPE DESIGNATION.
- FLUORESCENT FIXTURE WITH TYPE DESIGNATION.
- NIGHT LIGHT, CONNECT TO UNSWITCHED CIRCUIT.
- CEILING OR RECESSED FIXTURE WITH TYPE DESIGNATION.

POWER DEVICES

- DUPLEX RECEPTACLE, BOTTOM OF BOX AT 16" AFF, UNLESS NOTED OTHERWISE.
- FOURPLEX RECEPTACLE, BOTTOM OF BOX AT 16" AFF, UNLESS NOTED OTHERWISE.
- DEVICE MOUNTED ABOVE COUNTER AND/OR SPLASH GUARD.
- HEAVY DUTY OUTLET - NEMA CONFIGURATION SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDATION.
- PANEL BOARD, TOP OF BOX 6'-0" AFF.
- JUNCTION BOX.
- NON-FUSED DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH.
- MOTOR WITH DESIGNATION.
- MAGNETIC STARTER PROVIDED BY MECHANICAL CONTRACTOR.

CONTROLS

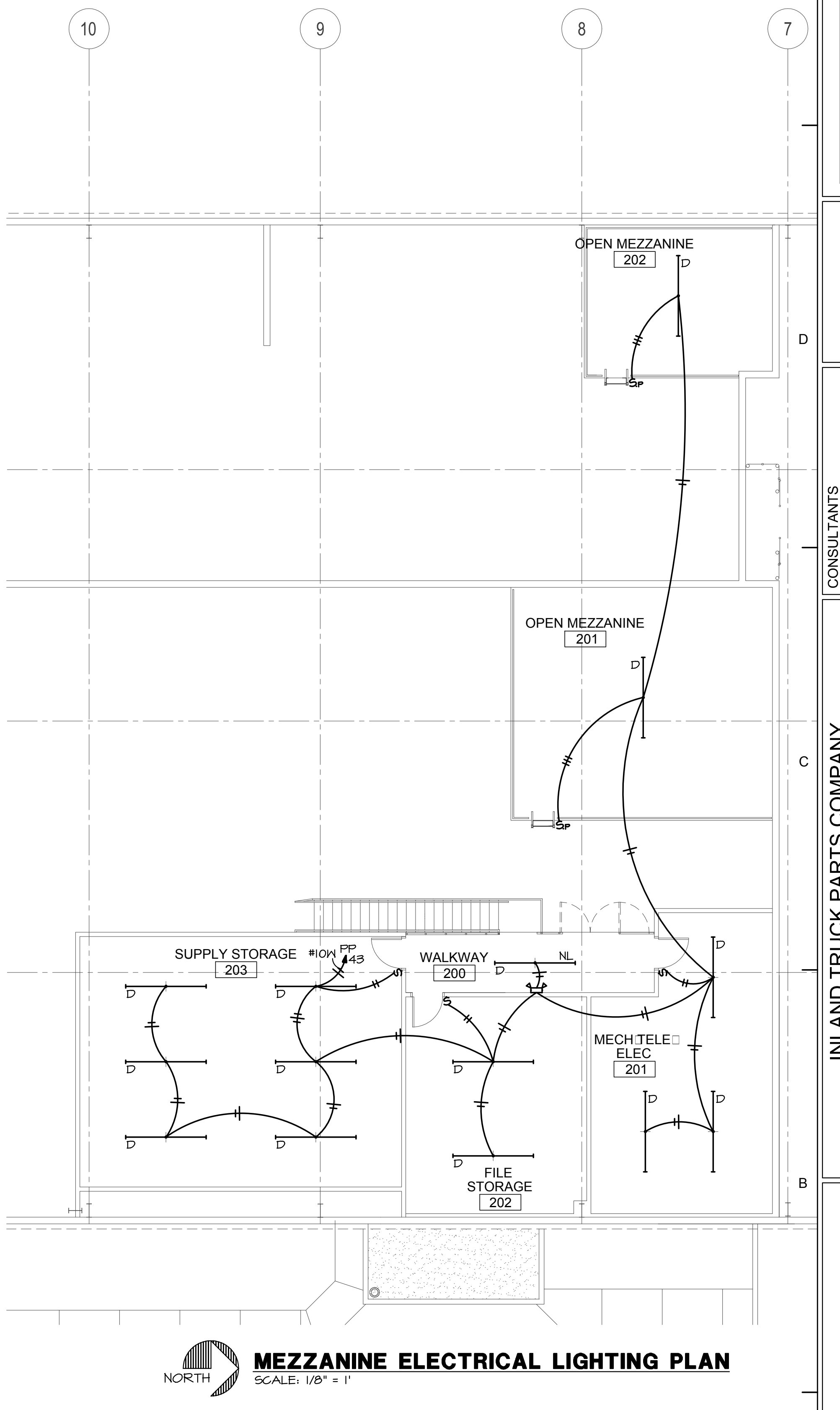
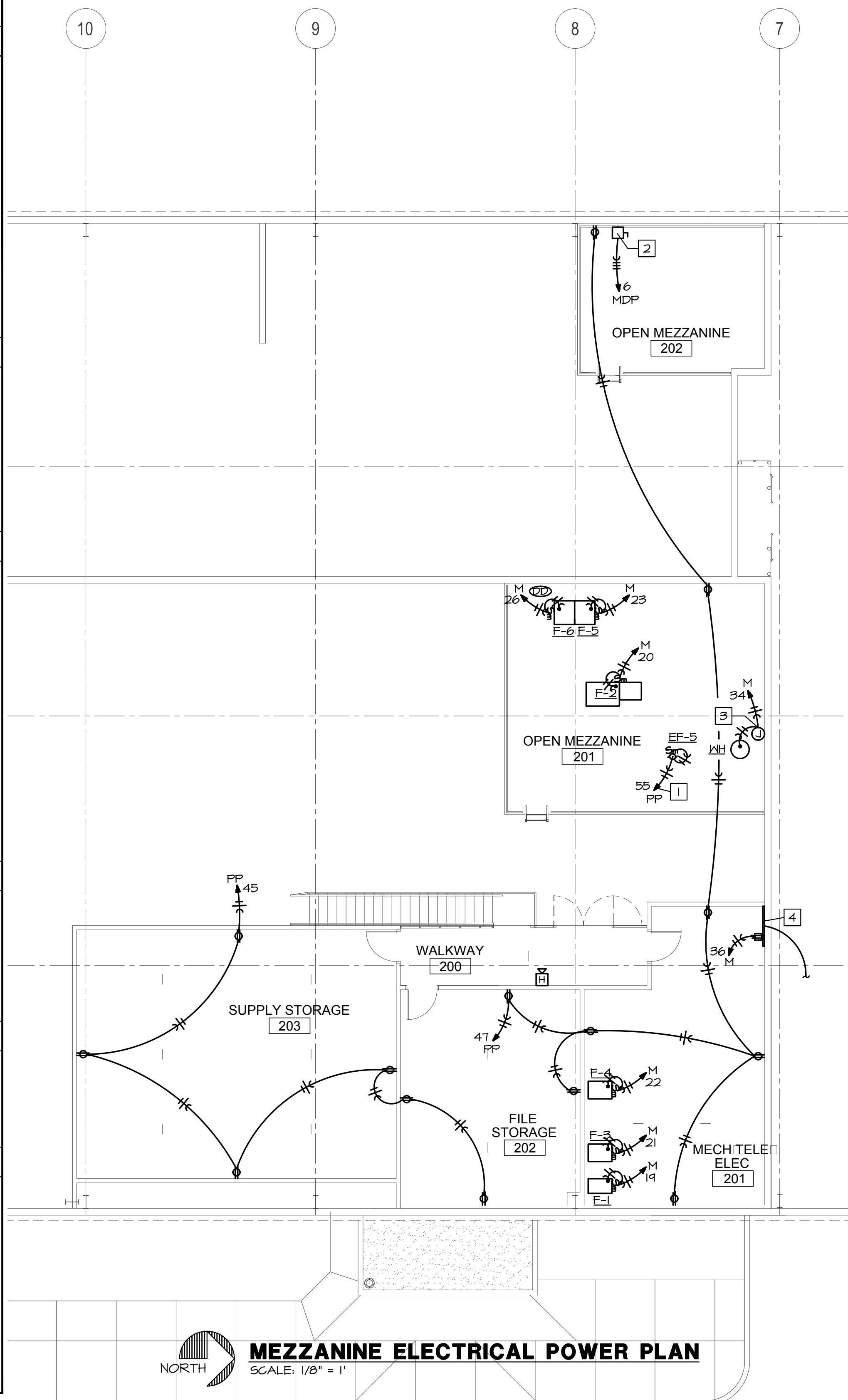
- S SINGLE POLE WALL SWITCH, TOP OF BOX AT 48" AFF.
- S₂ TWO POLE WALL SWITCH.
- S₃ THREE-WAY WALL SWITCH.
- S₀ INFRARED OCCUPANCY SENSOR, WATT STOPPER #WS-200.
- S_m MANUAL MOTOR STARTER WITH OVERLOADS.

COMMUNICATIONS

- COMMUNICATIONS OUTLET WITH 3/4" CONDUIT STUBBED UP TO ABOVE ACCESSIBLE CEILING, BOTTOM OF BOX AT 16", UNLESS NOTED OTHERWISE. PROVIDE WITH FULL STRING.
- DATA/TELEPHONE

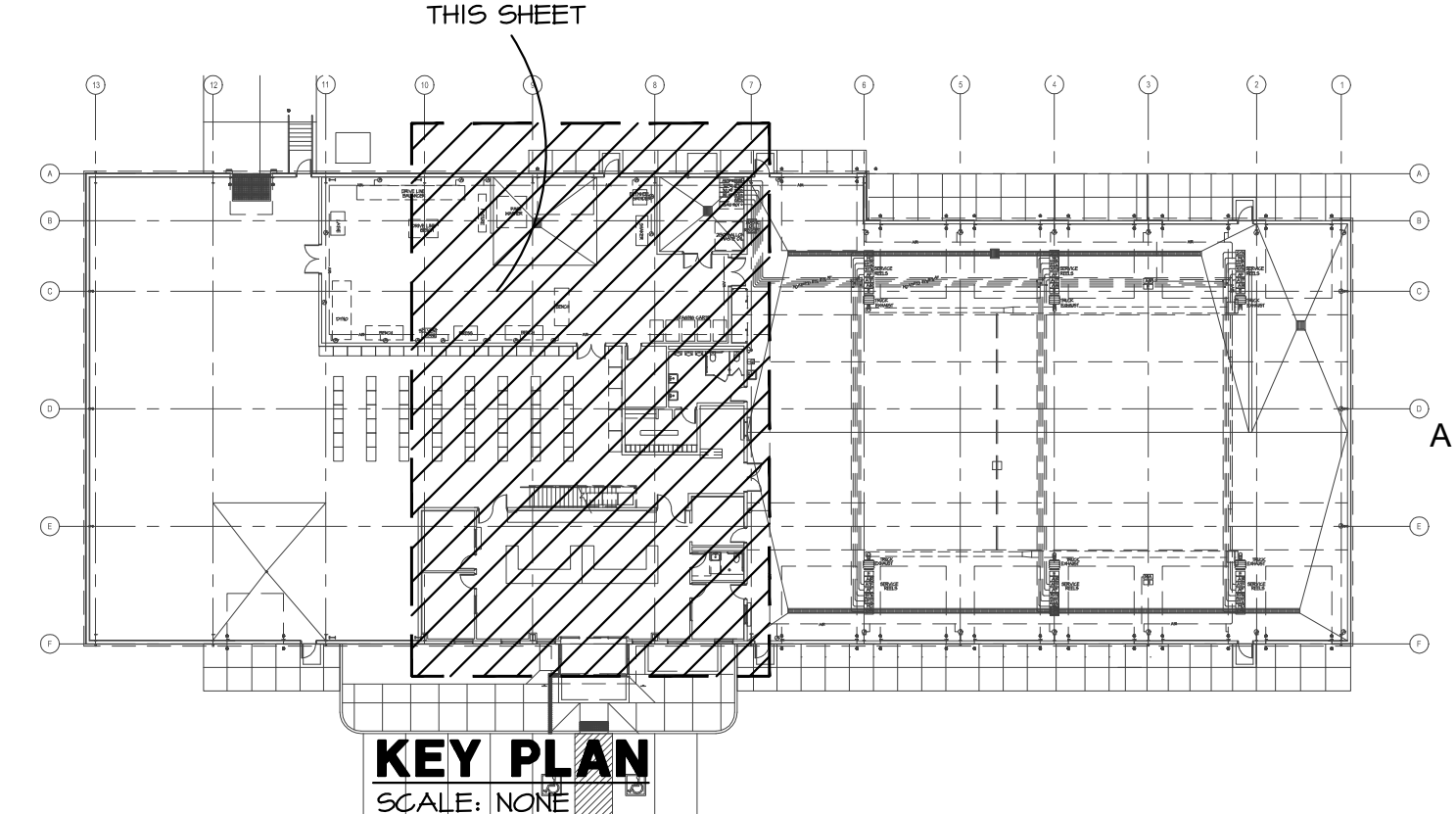
FIRE ALARM

- CEILING MOUNTED SMOKE DETECTOR.
- DUCT MOUNTED SMOKE DETECTOR.
- FIRE ALARM FULL STATION, TOP OF BOX AT 48" AFF.
- FIRE ALARM HORN/STROBE COMBINATION SIGNAL, CENTERLINE 6'-8" AFF.
- FIRE ALARM VISUAL STROBE, CENTERLINE 6'-8" AFF.
- EXTERIOR FIRE ALARM BELL, CENTERLINE 11'-8".
- WATERFLOW SWITCH.
- TAMPER SWITCH.



ELECTRICAL PLAN NOTES:

- 1 ROUTE CIRCUIT TO PANEL VIA EXHAUST CONTACTOR, CONTROLLED BY TIMELOCK, SEE DETAIL, SHEET E201. FANS ROUTED THROUGH THIS CONTACTOR TO RUN CONTINUOUSLY WHILE THE BUILDING IS OCCUPIED.
- 2 CONNECT TO AIR-COMPRESSOR PER MANUFACTURER'S INSTRUCTIONS. VERIFY EXACT LOCATION & ELECTRICAL REQUIREMENTS.
- 3 CONNECT TO WATER HEATER CONTROLS PER MANUFACTURER'S INSTRUCTIONS.
- 4 4'x8'x3/4" PLYWOOD TELEPHONE BACKBOARD WITH SIEMENS #ECGB-5 GROUND BAR AND #6CU BOND TO BUILDING ELECTRODE SYSTEM. PROVIDE (2) 3" TO PROPERTY LINE FOR BUILDING TELEPHONE SERVICE. TERMINATE AT LOCATION DIRECTED BY LOCAL SERVICE PROVIDER. VERIFY ROUTING & DISTANCE.



TranSystems
 2400 Peering Road
 Suite 400
 Kansas City, Missouri 64108
 (P) 816-528-8600
 www.transystems.com

BC ENGINEERS INCORPORATED
 CONSULTANTS
 8720 Becker Shuman, Inc. #203 (816) 528-1772

INLAND TRUCK PARTS COMPANY
 NEW SERVICE CENTER
 N PLATTE, NEBRASKA
INLAND TRUCK PARTS COMPANY
 An Employee Owned Company

REVISIONS:	DATE	DESCRIPTION
04-08-12		REMOVED UNDERFLOOR HEATING SYSTEM

PROJECT NO:	11699
SCALE:	AS SHOWN
DATE:	03-28-12
DESIGNED BY:	BO-DS
DRAWN BY:	BO-DS
CHECKED BY:	EK-RWC
SHEET TITLE:	
MEZZANINE ELECTRICAL PLAN	
SHEET NO.	
E-301	
OF	

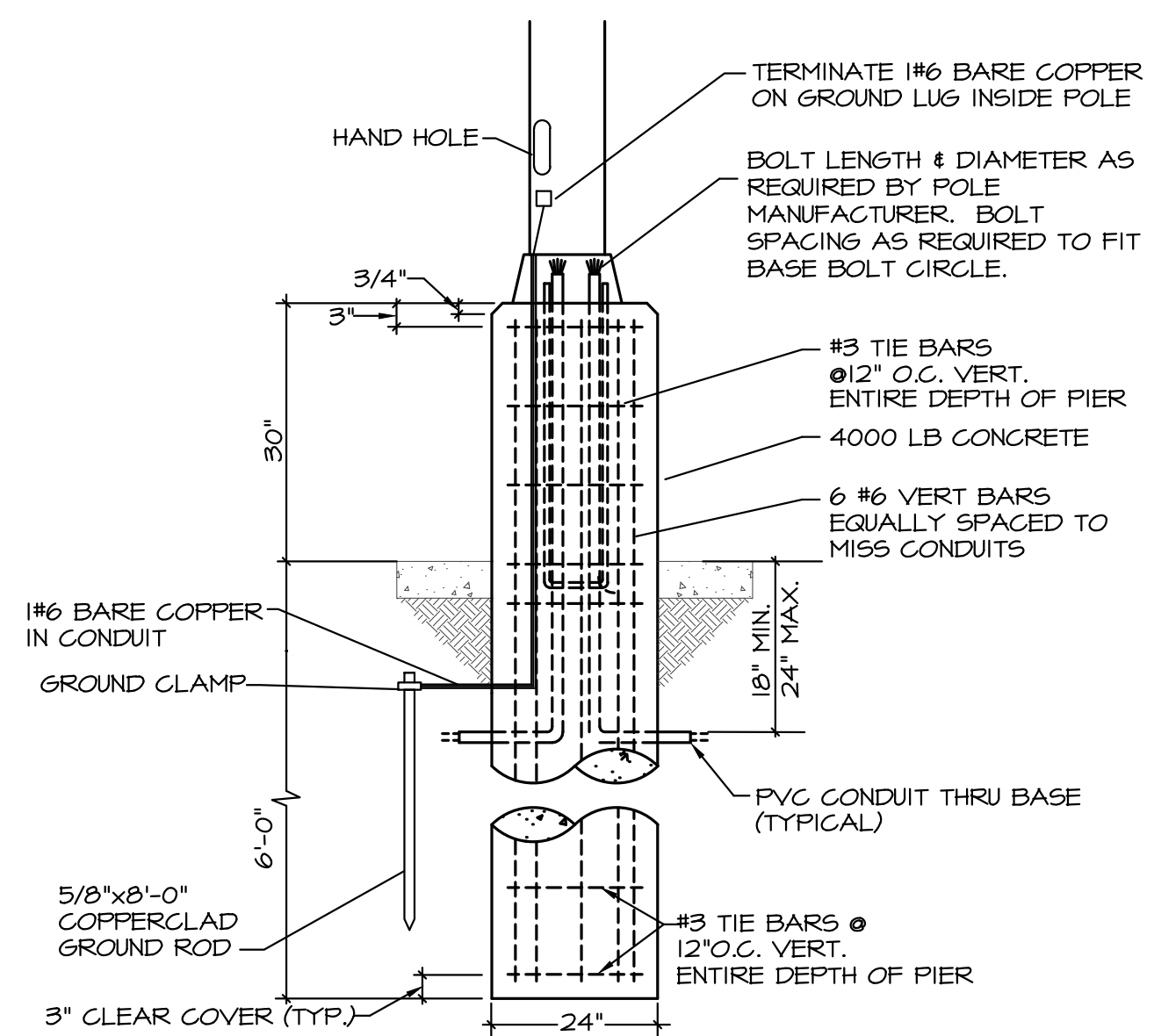
REV/DATE

PANEL: PP		VOLTS/PHASE/WIRE: 120/208V/3Ø/4W				LOCATION: WAREHOUSE WALL				MOUNTING: SURFACE																						
BUS: 225A		MAIN: MLO				IG: 10,000 RMS SYM. AMPS				FEEDER: SEE RISER DIAGRAM																						
QCT NO	DESCRIPTION	BKR AMP	BKR POLE	WIRE SIZE	ØA	ØB	ØC	ØA	ØB	ØC	WIRE SIZE	BKR AMP	BKR POLE	WIRE SIZE	DESCRIPTION	QCT NO																
1	OVERHEAD DOOR	20	1	12	1200			1460			1460	12	1	20	WAREHOUSE LIGHTING	2																
3	WAREHOUSE LIGHTING	20	1	10			1460			1460	12	1	20	WAREHOUSE LIGHTING	4																	
5	WAREHOUSE LIGHTING	20	1	8			1825			1456	10	1	20	WAREHOUSE LIGHTING	6																	
7	WAREHOUSE LIGHTING	20	1	10	1820			1825			12	1	20	REBUILD SHOP LIGHTING	8																	
11	WAREHOUSE LIGHTING	20	1	10			1920			1825	12	1	20	REBUILD SHOP LIGHTING	10																	
14	PARTS/LOCKER/OPC LTS	20	1	10			1234			1015	10	1	20	REBUILD SHOP LIGHTING	12																	
13	PARTS COUNTER TRACK	20	1	12	600			900			12	1	20	OFFICE RECEPTACLES	14																	
15	PARTS COUNTER LIGHTS	20	1	8			1615			120	12	1	20	OFFICE RECEPTACLES	16																	
17	PARTS COUNTER RECS	20	1	12				360			1260	10	1	20	PARTS COUNTER RECS	18																
19	PARTS COUNTER RECS	20	1	12	360			800			10	1	20	VENDING MACHINES	20																	
21	PARTS COUNTER RECS	20	1	12	360			800			10	1	20	VENDING MACHINES	22																	
23	RESTRM/CUST WAIT REC	20	1	12			1260			800	10	1	20	VENDING MACHINES	24																	
25	OFFICE RECEPTACLES	20	1	12	120			900			12	1	20	PARTS/OFFICE RECEPTS	26																	
27	OVERHEAD DOOR	20	1	12			1200			850	12	1	20	AUTOMATIC DOOR	28																	
29	OVERHEAD DOOR	20	1	12			1200			1200	12	1	20	BUILDING SIGN	30																	
31	OVERHEAD DOOR	20	1	10	1200			120			12	1	20	WAREHOUSE RECEPTS	32																	
33	OFFICE IG RECEPTACLES	20	1	12			900			1145	10	2	20	BUILDING LIGHTS	34																	
35	OFFICE IG RECEPTACLES	20	1	12			900			1145	10	2	20	BUILDING LIGHTS	36																	
37	OFFICE IG RECEPTACLES	20	1	12	900			1145			10	2	20	BUILDING LIGHTS	38																	
39	OFFICE IG RECEPTACLES	20	1	12	900			1145			10	2	20	BUILDING LIGHTS	40																	
41	OFFICE IG RECEPTACLES	20	1	12			900			50	12	1	20	LTS CONTACTORS	42																	
SECTION 2																																
43	MEZZANINE LIGHTS	20	1	10	1210			1145			10	2	20	BUILDING LIGHTS	44																	
45	MEZZANINE RECEPTS	20	1	10			1080			1145	10	2	20	BUILDING LIGHTS	46																	
47	MEZZANINE RECEPTS	20	1	10			1080			828	12	3	20	EXHAUST FAN EF-3	48																	
49							828			828	12	3	20	EXHAUST FAN EF-3	50																	
51	EXHAUST FAN EF-2	20	3	12			828			828	12	3	20	EXHAUST FAN EF-3	52																	
53							828			480	12	1	20	EXHAUST FAN EF-4	54																	
55	EXHAUST FAN EF-5	20	1	12	480			126			12	1	20	EXHAUST FAN EF-1	56																	
57	WAREHOUSE UNIT HTRS	20	1	12	960			1000			12	1	20	UNIT HEATER UH-5	58																	
59	MOTORIZED LOUVERS	20	1	12			500				3	20	SPARE	60																		
61	BOILER CONTROLS	20	1	12	500						3	20	SPARE	62																		
63	CEILING HEATER CH-1	30	2	8			2000							SPARE	64																	
65							2000			1100				SPARE	66																	
67	FIRE ALARM PANEL	20	1	12	50			1100			12	3	20	UNIT HEATER UH-5	68																	
69	PUMP P-1	20	1	12	864			1100						SPARE	70																	
71	UNDERFLOOR CNTRL PNL	20	1	12			500							SPARE	72																	
73					1152						1	20	SPARE	74																		
75	PUMPS P-3 & P-4	20	3	12			1152				1	20	SPARE	76																		
77							1152				1	20	SPARE	78																		
79	SPARE	20	1								1	20	SPARE	80																		
81	SPARE	20	1								1	20	SPARE	82																		
83	SPARE	20	1								1	20	SPARE	84																		
NOTES: PROVIDE ISOLATED GROUND BUS																																
<table border="1" style="width:100%"> <tr><td>10520</td><td>14634</td><td>13194</td><td>10944</td><td>11445</td><td>9414</td><td>TOTAL VA</td><td>70,754</td></tr> <tr><td>21464</td><td>26197</td><td>29159</td><td></td><td></td><td></td><td>AMPS @ 208 3Ø</td><td>116.41</td></tr> </table>																	10520	14634	13194	10944	11445	9414	TOTAL VA	70,754	21464	26197	29159				AMPS @ 208 3Ø	116.41
10520	14634	13194	10944	11445	9414	TOTAL VA	70,754																									
21464	26197	29159				AMPS @ 208 3Ø	116.41																									

PANEL: SP		VOLTS/PHASE/WIRE: 120/208V/3Ø/4W				LOCATION: REPAIR SHOP				MOUNTING: SURFACE																						
BUS: 225A		MAIN: MLO				IG: 10,000 RMS SYM. AMPS				FEEDER: SEE RISER DIAGRAM																						
QCT NO	DESCRIPTION	BKR AMP	BKR POLE	WIRE SIZE	ØA	ØB	ØC	ØA	ØB	ØC	WIRE SIZE	BKR AMP	BKR POLE	WIRE SIZE	DESCRIPTION	QCT NO																
1	REPAIR SHOP LIGHTING	20	1	8	1460			1200			12	1	20	OVERHEAD DOOR	2																	
3	REPAIR SHOP LIGHTING	20	1	8			1460			1200	12	1	20	OVERHEAD DOOR	4																	
5	REPAIR SHOP LIGHTING	20	1	8			1460			1200	12	1	20	OVERHEAD DOOR	6																	
7	REPAIR SHOP LIGHTING	20	1	10	1460			1200			8	1	20	OVERHEAD DOOR	8																	
9	REPAIR SHOP LIGHTING	20	1	10			1460			1200	8	1	20	OVERHEAD DOOR	10																	
11	REPAIR SHOP LIGHTING	20	1	10			1460			1200	8	1	20	OVERHEAD DOOR	12																	
13	REPAIR SHOP LIGHTING	20	1	12	1460			1200			10	1	20	OVERHEAD DOOR	14																	
15	REPAIR SHOP RECEPTS	20	1	12			540			1200	10	1	20	OVERHEAD DOOR	16																	
17	REPAIR SHOP RECEPTS	20	1	10			540			1200	10	1	20	OVERHEAD DOOR	18																	
19					3450			1200			8	1	20	OVERHEAD DOOR	20																	
21					3450			1200			8	1	20	OVERHEAD DOOR	22																	
23					3450			1200			8	1	20	OVERHEAD DOOR	24																	
25					3450			1080			10	1	20	CORD REEL DROPS	26																	
27	REPAIR SHOP RECEPTS	20	1	12			120			1080	10	1	20	CORD REEL DROPS	28																	
29	REPAIR SHOP RECEPTS	20	1	12			540			800	12	1	20	SHOP DRINKING FOUNTAIN	30																	
31					3450			130			12	1	20	NIGHT LIGHTS	32																	
33					3450			1500			12	1	20	RADIANT HEATERS	34																	
35					3450			500			12	1	20	MOTORIZED LOUVERS	36																	
37					3450			50			12	1	20	LIGHTING CONTACTORS	38																	
39	SPARE	20	1								1	20	SPARE	40																		
41	SPARE	20	1								1	20	SPARE	42																		
SECTION 2																																
43					828			828			12	3	20	EXHAUST FAN EF-7	44																	
45	EXHAUST FAN EF-6	20	3	12			828			828	12	3	20	EXHAUST FAN EF-7	46																	
47							828			828				SPARE	48																	
49	SPARE	20	1								1	20	SPARE	50																		
51	SPARE	20	1								1	20	SPARE	52																		
53	SPARE	20	1								1	20	SPARE	54																		
55	SPARE	20	1								1	20	SPARE	56																		
57	SPARE	20	1								1	20	SPARE	58																		
59	SPARE	20	1								1	20	SPARE	60																		
61	SPARE	20	1								1	20	SPARE	62																		
63	SPARE	20	1								1	20	SPARE	64																		
65	SPARE	20	1								1	20	SPARE	66																		
67	SPARE	20	1								1	20	SPARE	68																		
69	SPARE	20	1								1	20	SPARE	70																		
71	SPARE	20	1								1	20	SPARE	72																		
73	BUSSED SPACE													BUSSED SPACE	74																	
75	BUSSED SPACE													BUSSED SPACE	76																	
77	BUSSED SPACE													BUSSED SPACE	78																	
79	BUSSED SPACE													BUSSED SPACE	80																	
81	BUSSED SPACE													BUSSED SPACE	82																	
83	BUSSED SPACE													BUSSED SPACE	84																	
NOTES: I. ALL FLUORESCENT LAMPS SHALL BE 3500° KELVIN AND A MINIMUM CRI OF 82.																																
<table border="1" style="width:100%"> <tr><td>14008</td><td>11408</td><td>11728</td><td>14688</td><td>8208</td><td>6428</td><td>TOTAL VA</td><td>65,268</td></tr> <tr><td>26446</td><td>2016</td><td></td><td></td><td></td><td></td><td>AMPS @ 208 3Ø</td><td>181.17</td></tr> </table>																	14008	11408	11728	14688	8208	6428	TOTAL VA	65,268	26446	2016					AMPS @ 208 3Ø	181.17
14008	11408	11728	14688	8208	6428	TOTAL VA	65,268																									
26446	2016					AMPS @ 208 3Ø	181.17																									

LIGHT FIXTURE SCHEDULE					
MARK NO.	MANUFACTURER & CATALOG NUMBER	VOLTS WATTS	LAMPS	DESCRIPTION	EQUIVALENT MANUFACTURERS
A	METALUX 2CG8-332A-UNV-EB81	120 85	3-32W F32T8	2'x4' FLUORESCENT GRID TROFFER WITH PRISMATIC ACRYLIC LENS AND ELECTRONIC BALLAST FOR (3) 32W F32T8 LAMPS.	WILLIAMS LITHONIA OR EQUAL
B	PORTFOLIO PD6-V142E-6VC	120 46	1-42W PLT/4PIN	6"Ø RECESSED DOWNLIGHT WITH CLEAR SEMI-SPECULAR REFLECTOR AND ELECTRONIC BALLAST FOR (1) 42W TRIPLE-TUBE COMPACT FLUORESCENT LAMP.	WILLIAMS LITHONIA OR EQUAL
C	METALUX HBL-654T5-M-UNV-EHT2-FH-1	120 364	6-54W F54T5HO	4' LINEAR FLUORESCENT HIGH-BAY WITH MEDIUM BEAM DISTRIBUTION AND (1) 2-LAMP ELECTRONIC BALLAST AND (1) 4-LAMP ELECTRONIC BALLAST FOR DUAL-LEVEL SWITCHING OF (6) 54W F54T5HO LAMPS.	WILLIAMS LITHONIA OR EQUAL
D	METALUX 8T-1CF-232-UNV-EB81	120 110	4-32W F32T8	8' FLUORESCENT INDUSTRIAL (TANDEM 4' SECTION) WITH ELECTRONIC BALLAST FOR (4) 32W F32T8 LAMPS (2 LAMPS IN CROSS SECTION)	WILLIAMS LITHONIA OR EQUAL
F	LUMARK MPIP-TM-400-4-MT-LL	208 458	1-400W PSMH	WALL MOUNTED AREA LIGHT WITH FLAT GLASS LENS AND TYPE IV DISTRIBUTION FOR (1) 400W PULSE-START METAL HALIDE LAMP. MOUNT FIXTURES 20'-0" AFF.	HUBBELL LITHONIA OR EQUAL
G	LUMARK MPIP-T-120-LL-PE	120 90	1-70W MH	WALL MOUNTED AREA LIGHT WITH FLAT GLASS LENS AND INTEGRAL PHOTOCELL FOR (1) 70W METAL HALIDE LAMP. MOUNT FIXTURES 9'-6" AFF.	HUBBELL LITHONIA OR EQUAL
H	METALUX BC-232-UNV-EB81	120 51	2-32W F32T8	4' FLUORESCENT WALL BRACKET WITH WHITE OPAL ACRYLIC LENS AND ELECTRONIC BALLAST FOR (2) 32W F32T8 LAMPS. WALL MOUNT FIXTURE 7'-6" AFF.	WILLIAMS LITHONIA OR EQUAL
L	McGRAN-EDISON (2)65M-AM-400-MP-M T-45-FG-BZ ON 565-5M-30-S-F-M3	208 416	2-400W PSMH	TWIN (90°) POLE MOUNTED AREA LIGHT WITH FLAT GLASS LENS AND SEGMENTED TYPE IV REFLECTOR FOR (1) 400W PULSE-START METAL HALIDE LAMP EACH. MOUNT ON 30' SQUARE STRAIGHT STEEL POLE ON 2.5' HIGH CONCRETE BASE. SEE DETAIL ON SHEET E5.	KIM LITHONIA OR EQUAL
M	JUNO T435MH ON (2)T12-WH TRACK	120 75	1-75W PAR30	TRACK MOUNTED LINE VOLTAGE LAMPHOLDER FOR (1) 75W PAR30 LAMP. MOUNT ON WHITE SINGLE-CIRCUIT TRACK. LENGTH AS INDICATED. PROVIDE ALL NECESSARY ENDS, FEEDERS, JOINERS, ETC AS REQUIRED FOR A COMPLETE INSTALLATION	FRESCOLITE CON-TECH OR EQUAL
N	CON-TECH CTF48-N-40-KIT-QT-1	120 80	NA	48" CEILING FAN WITH FAN MOUNTING BRACKET, WHITE FINISH, 4 SPEED QUITE FAN CONTROL.	OR EQUAL
	SURE-LITE CCB-MRT	120 1.2	INCL	EMERGENCY LIGHT WITH TWIN ADJUSTABLE 9W HEADS AND SEALED LEAD CALCIUM BATTERY	DUAL-LITE LITHONIA OR EQUAL
	SURE-LITE LPX-10-R-WH	120 4.1	INCL	EXIT LIGHT WITH LED LAMPS, RED LETTERS ON WHITE BACKGROUND, UNIVERSAL MOUNT, BATTERY BACKUP	DUAL-LITE LITHONIA OR EQUAL
	SURE-LITE LPXH-10-R-WH-DH W/ 6T6-WH REMOTE	120 4.1	INCL	COMBINATION EMERGENCY/EXIT LIGHT WITH LED LAMPS, RED LETTERS ON WHITE BACKGROUND, TWIN 6W EMERGENCY LIGHT HEADS, UNIVERSAL MOUNT, HIGH CAPACITY BATTERY BACKUP AND WEATHERPROOF EXTERIOR REMOTE HEAD	DUAL-LITE LITHONIA OR EQUAL
NOTES: I. ALL FLUORESCENT LAMPS SHALL BE 3500° KELVIN AND A MINIMUM CRI OF 82.					

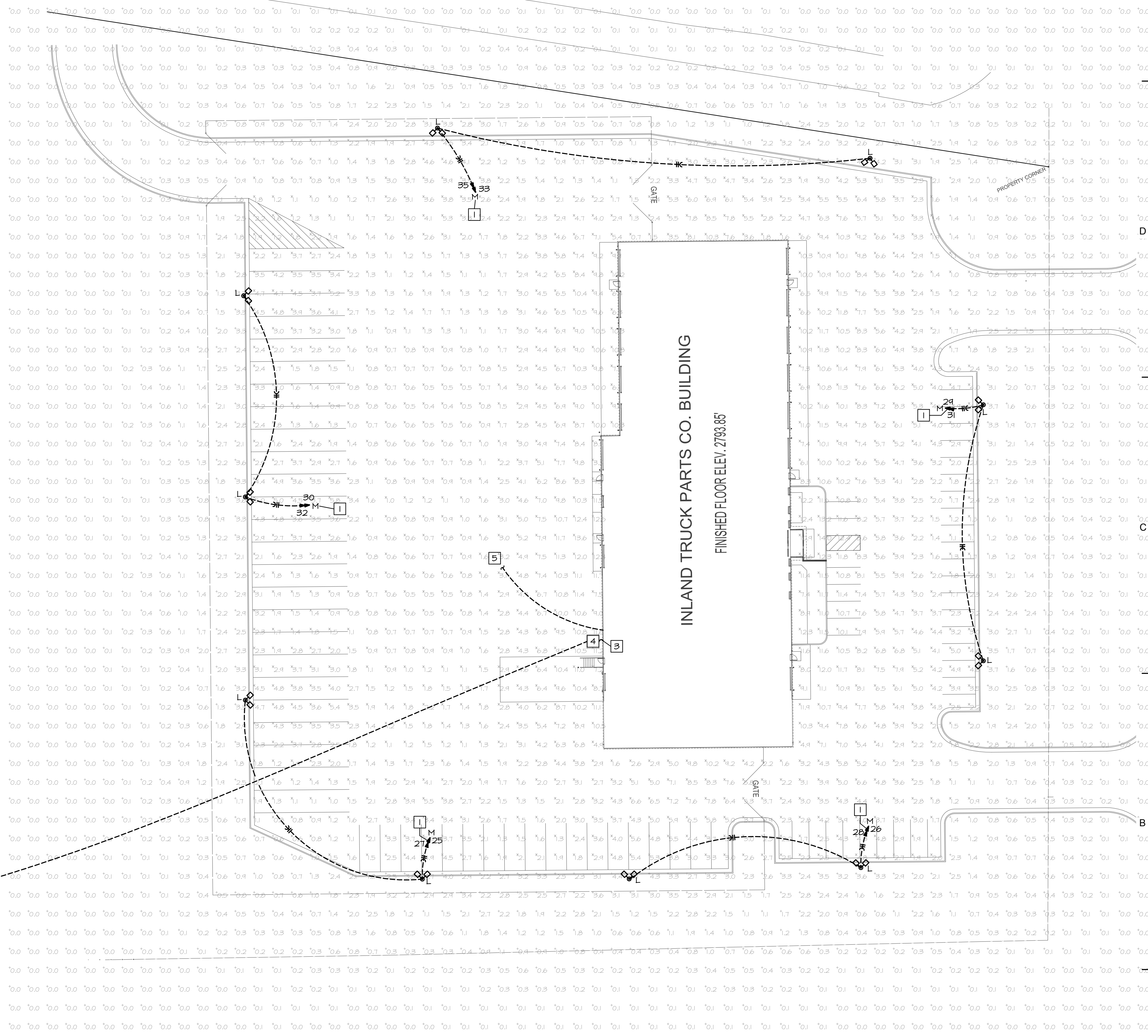
PANEL: MDP		VOLTS/PHASE/WIRE: 120/208V/3Ø/4W				LOCATION: WAREHOUSE WALL				MOUNTING: SURFACE			
BUS: 1200A		IG: 35,000 RMS SYM AMPS				FEEDER: SEE RISER DIAGRAM							
QCT NO	DESCRIPTION	FRAME	POLE	TRIP	KVA LOAD	FEEDER SIZE							
M	MAIN CIRCUIT BREAKER (KIRK-KEY)	3	3	1200									
1	PANEL PP	-	3	225	14.4	4#4/0, 1#4G, 2-1/2" C							
2	PANEL SP	-	3	225	65.3	4#4/0, 1#4G, 2-1/2" C							
3	PANEL RP	-	3	400	112.5	4#500KCMIL, 1#3G, 3-1/2" C							
4	PANEL M	-	3	225	58.1	4#4/0, 1#4G, 2-1/2" C							
5	BRIDGE CRANE (VERIFY REQUIREMENTS)	-	3	100	30.0	3#3, 1#8G, 1-1/4" C							
6	AIR COMPRESSOR (VERIFY REQUIREMENTS)	-	3	100	30.0	3#3, 1#8G, 1-1/4" C							



POLE FOUNDATION DETAIL
SCALE: NONE

ELECTRICAL SITE PLAN NOTES:

- 1 ROUTE CIRCUIT TO PANEL INDICATED VIA EXTERIOR LIGHTING CONTROLLER. SEE DETAIL ON SHEET E101
- 2 4" FOR UTILITY COMPANY PRIMARY CONDUCTORS. VERIFY ROUTING & DISTANCE WITH LOCAL UTILITY.
- 3 ELECTRICAL SECONDARY FROM TRANSFORMER. SEE RISER DIAGRAM.
- 4 PROPOSED TRANSFORMER LOCATION. PROVIDE FIBERGLASS BASE AND FOUNDATION PER UTILITY COMPANY REQUIREMENTS. COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY.
- 5 (2) 3" TO PROPERTY LINE FOR BUILDING TELEPHONE SERVICE. TERMINATE AT LOCATION DIRECTED BY LOCAL SERVICE PROVIDER. VERIFY ROUTING & DISTANCE.



ELECTRICAL SITE PLAN
SCALE: 1" = 30'

TranSystems
2400 Peering Road
Suite 400
Kansas City, Missouri 64108
(816) 528-8800
www.transystems.com

BC ENGINEERS INCORPORATED
CONSULTANTS
7820 Becker, Shawnee, Mo. 64083
(816) 982-1772

INLAND TRUCK PARTS COMPANY
NEW SERVICE CENTER
N PLATTE, NEBRASKA
INLAND TRUCK PARTS COMPANY
An Employee Owned Company

REVISIONS:	DATE	DESCRIPTION
04-06-12		REMOVED UNDERFLOOR HEATING SYSTEM

PROJECT NO: 11699
SCALE: AS SHOWN
DATE: 03-28-12
DESIGNED BY: BO-DS
DRAWN BY: BO-DS
CHECKED BY: EK-RWC

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NO.
E-501
OF

