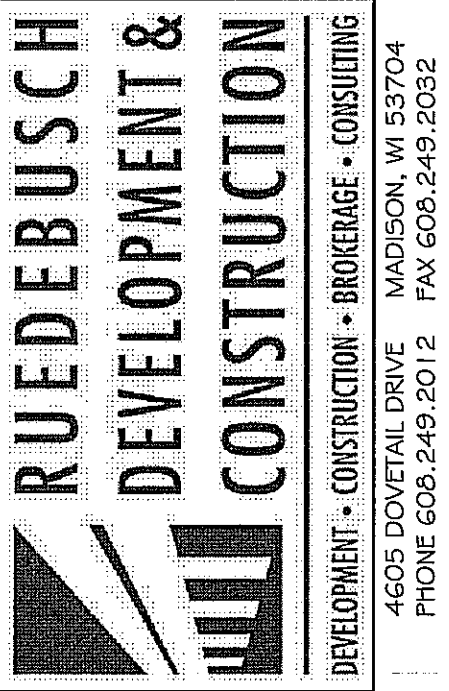


# FedEx® Ground

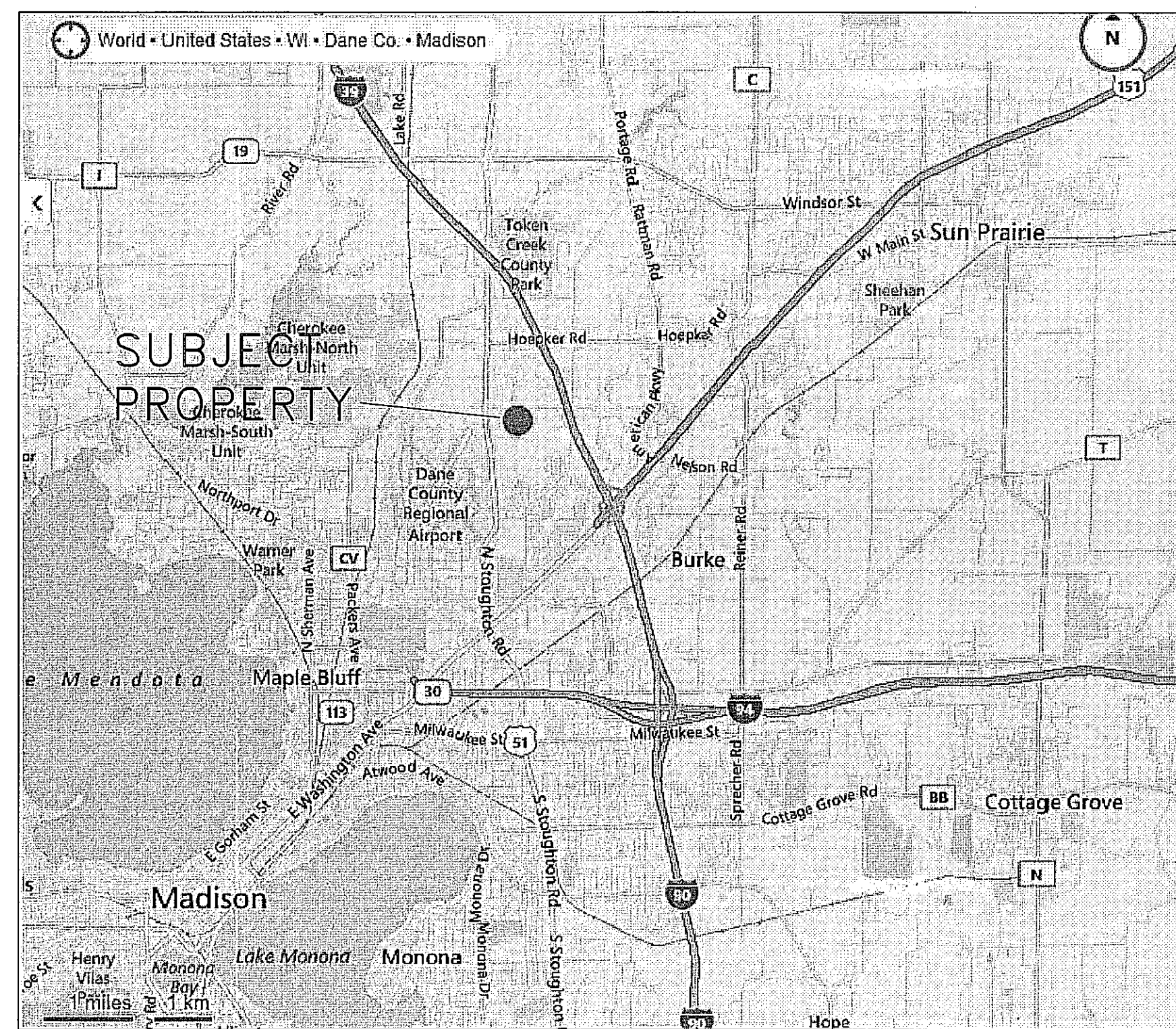
FACILITIES & MATERIAL  
HANDLING SYSTEMS  
1000 FedEx Drive  
Moon Township, PA 15108  
412/269-1000



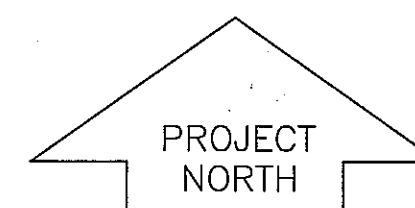
DEVELOPMENT • CONSTRUCTION • BROKERAGE • CONSULTING  
4605 DOVETAIL DRIVE MADISON, WI 53704  
PHONE 608.249.2012 FAX 608.249.2032

| SITE-BUILDING INFORMATION                                       |                              |
|---|------------------------------|
| SITE ADDRESS:   | HANSON ROAD, MADISON WI.     |
| NUMBER OF STORIES ABOVE GRADE:                                  | 1                            |
| BUILDING HEIGHT:  | 28 FEET                      |
| TYPE OF CONSTRUCTION:   | III B                        |
| BUILDING CLASSIFICATION:  | PACKAGE DELIVER SERVICE (S1) |
| TOTAL SQ. FT. OF BUILDING:                                      | 59,167 S.F.                  |
| GROSS SQ. FT. OF WAREHOUSE:                                     | 55,736 S.F. (INCIDENTAL USE) |
| GROSS SQ. FT. OF OFFICE:  | 3,431 S.F.                   |
| NUMBER OF EMPLOYEES IN WAREHOUSE:                               | 240                          |
| NUMBER OF PARKING SPACES:                                       | 141                          |
| NUMBER OF ACCESSIBLE STALLS:<br>(INCLUDED IN TOTAL PKG. COUNT.) | 6                            |
| TOTAL PARKING SPACES:   | 147                          |
| NUMBER OF BICYCLE STALLS:                                       | 16                           |
| FULLY SPRINKLERED:  | NFPA 13                      |
| TOILET FIXTURE COUNT (240/2)/100 = 1.2 (MENS AND WOMENS)        |                              |
| MENS PROVIDED:  | 2 WC, 1 URINAL               |
| WOMENS PROVIDED:  | 2 WC                         |

| DRAWING INDEX  |                                    |
|--|------------------------------------|
| SHEET NO.  | TITLE                              |
| T-1  | TITLE SHEET                        |
| CIVIL DRAWINGS - QUAM ENGINEERING                                |                                    |
| C-1  | EXISTING SITE PLAN                 |
| C-2  | PROPOSED SITE PLAN                 |
| C-3  | GRADING AND EROSION PLAN           |
| C-4  | UTILITY AND FIRELANE PLAN          |
| D-1  | SITE DETAILS                       |
| D-2  | SITE DETAILS                       |
| LANDSCAPE DRAWING - THE BRUCE COMPANY                            |                                    |
| L1   | LANDSCAPE PLAN                     |
| ARCHITECTURAL DRAWINGS - RUEDEBUSCH DEVELOPMENT AND CONSTRUCTION |                                    |
| A-1  | BUILDING PLAN                      |
| A-2  | OFFICE FLOOR PLAN                  |
| A-2.1  | ROOF-SMOKE VENT PLAN               |
| A-2.2  | REFLECTED CEILING PLAN             |
| A-3  | SCHEDULES                          |
| A-4  | ELEVATIONS                         |
| A-4.1  | BUILDING WALL SECTIONS             |
| A-5  | COMPUTER ROOM                      |
| E-1  | ELECTRICAL PLAN                    |
| A6.1   | DETAILS                            |
| A6.2   | DETAILS                            |
| A6.3   | DETAILS                            |
| A6.4   | DETAILS                            |
| STRUCTURAL DRAWINGS - STRUCTURAL INTEGRITY                       |                                    |
| S1.0   | OVERALL FOUNDATION PLAN            |
| S1.1   | FOUNDATION PLAN ENLARGED           |
| S1.2   | FOUNDATION PLAN ENLARGED           |
| S2.0   | FOUNDATION DETAILS                 |
| BUILDING FRAMING DRAWINGS - VARCO PRUDEN BUILDINGS               |                                    |
| SHEETS 1-47  |                                    |
| PAGE 1   | COVER SHEET                        |
| PAGE 2   | ERECTION NOTES                     |
| PAGE 3   | ANCHOR ROD PLAN                    |
| PAGE 4   | ANCHOR ROD PLAN - DETAILS          |
| PAGE 5   | PRIMARY AND ROOF BRACING PLAN      |
| PAGES 6-24   | FRAME CROSS SECTIONS               |
| PAGE 25  | ROOF SECONDARY PLAN                |
| PAGES 26-29  | SECONDARY ELEVATIONS               |
| PAGE 30  | ROOF COVERING PLAN                 |
| PAGES 31-33  | COVERING ELEVATION                 |
| PAGES 34-36  | WALL LINER ELEVATION               |
| PAGE 37  | PRIMARY BRACING SEDS               |
| PAGES 38-39  | ROOF SECONDARY SEDS                |
| PAGES 40-41  | WALL SECONDARY SEDS                |
| PAGES 42-47  | COVERING AND TRIM SEDS             |
| TILT-UP CONCRETE PANEL DRAWINGS-FABCON                           |                                    |
| C1   | COVER SHEET                        |
| SP1  | SCHEDULES                          |
| TF1 OF 2   | DETAILS AND SCHEDULES              |
| TF2 OF 2   | ELEVATIONS WALL TYP. FINISH PANELS |
| S1 OF 2  | ELEVATIONS WALL A,B,C              |
| 2 OF 2   | DETAILS, SCHEDULES                 |



LOCATION MAP



RECORD DRAWING  
02.20.15

FED-EX  
GROUND  
Hanson Road  
Madison, WI

| NO. | REVISION                            | DATE    |
|-----|-------------------------------------|---------|
| 1   | RECORD DRAWING REVISION TO SHEET A4 | 1/13/15 |

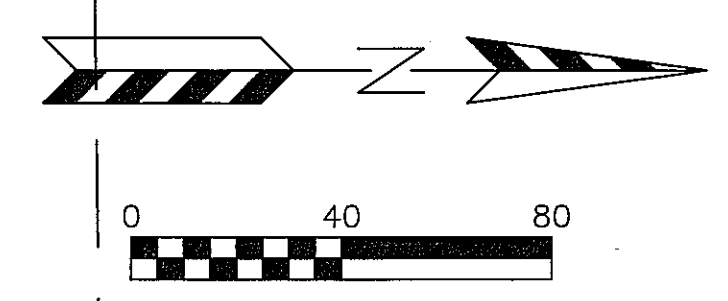
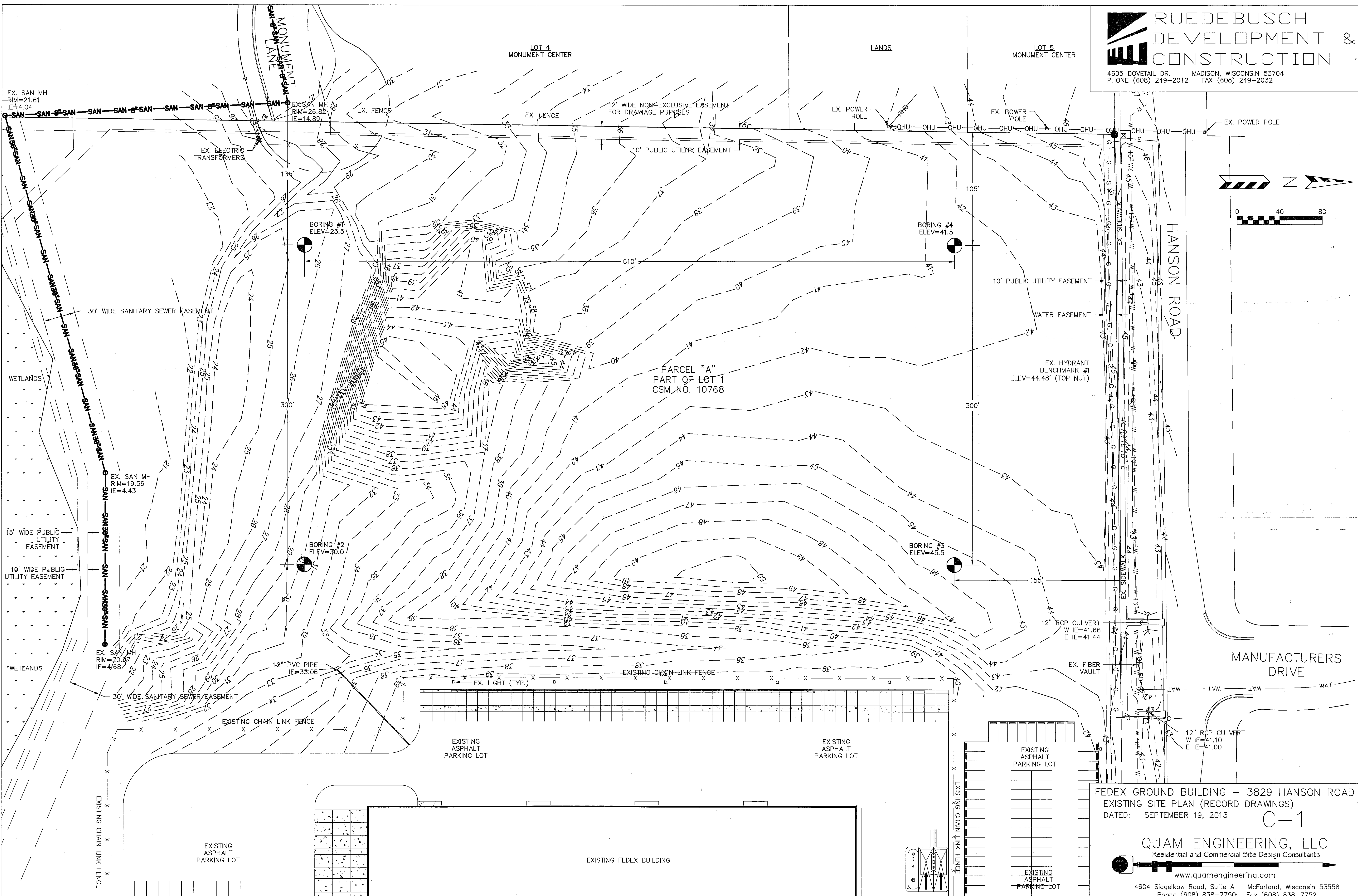
|                           |            |
|---------------------------|------------|
| SHEET TITLE:<br>SITE PLAN |            |
| JOB NUMBER:               | 13002      |
| DESIGNED BY:              | DN         |
| DRAWN BY:                 | MW         |
| CHECKED BY:               | DN         |
| DATE:                     | 07.22.2013 |
| SHEET NO:                 |            |

T-1

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A - McFarland, WI 53558 (608) 838-7750 (RD-10-13) RD10BASE.DWG

**RUEDEBUSCH  
DEVELOPMENT &  
CONSTRUCTION**

4605 DOVETAIL DR. MADISON, WISCONSIN 53704  
PHONE (608) 249-2012 FAX (608) 249-2032



FEDEX GROUND BUILDING - 3829 HANSON ROAD  
EXISTING SITE PLAN (RECORD DRAWINGS)  
DATED: SEPTEMBER 19, 2013

C-1

**QUAM ENGINEERING, LLC**  
Residential and Commercial Site Design Consultants

www.quamengineering.com  
4604 Siggelkow Road, Suite A - McFarland, Wisconsin 53558  
Phone (608) 838-7750; Fax (608) 838-7752

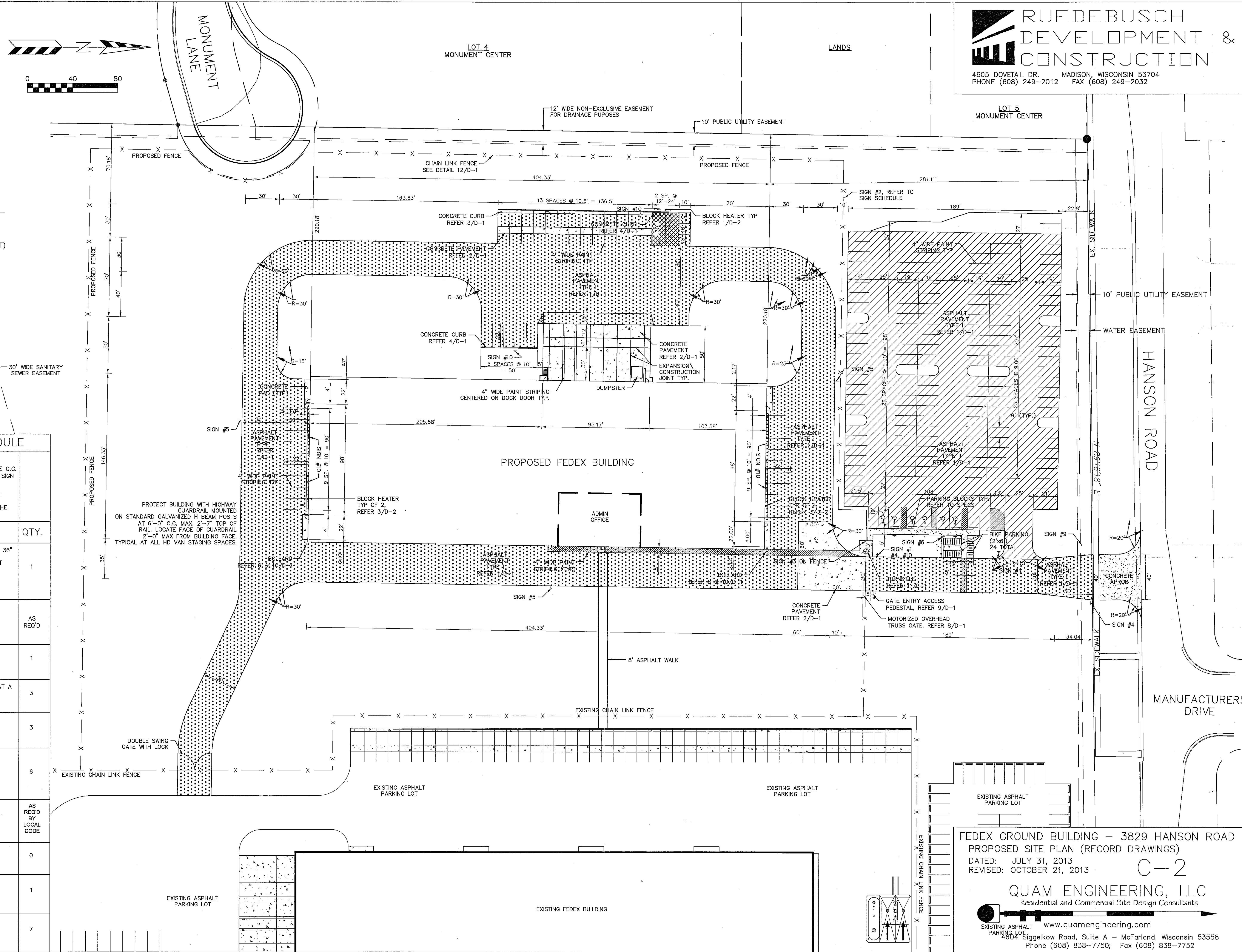
QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A - McFarland, WI 53558 (608) 838-7750 (RD-10-13) RD10BASE.DWG

| PARKING LOT PLAN SITE INFORMATION BLOCK                 |                       |
|---|-----------------------|
| Site Address  | 3829 HANSON ROAD      |
| Site acreage (total)                                    | 13.76 ACRES           |
| Number of building stories (above grade)                | 1                     |
| Building height   | 28 FEET               |
| DSPS type of construction (new structures or additions) | III                   |
| Total square footage of building                        | 59,167 SQUARE FEET    |
| Use of property   | DISTRIBUTION FACILITY |
| Gross square feet of office                             | 3,431                 |
| Gross square feet of retail area                        | N/A                   |
| Number of employees in warehouse                        | 115                   |
| Number of employees in production                       | N/A                   |
| Capacity of restaurant/peace of assembly                | N/A                   |
| Number of bicycle stalls shown                          | 24                    |
| Number of Parking stalls:                               |                       |
| Small Car   | 0                     |
| Large Car   | 141                   |
| Accessible  | 6                     |
| Total   | 147                   |
| Number of trees shown                                   | (See Landscape Plan)  |

**LEGEND:**

|  |                                       |
|--|---------------------------------------|
|  | ASPHALT PAVEMENT TYPE I               |
|  | ASPHALT PAVEMENT TYPE II              |
|  | ASPHALT PAVEMENT TYPE I (W/ SEALCOAT) |
|  | CONCRETE PAD                          |

| STATION SITE SIGN SCHEDULE |  |                        |
|----------------------------|--|------------------------|
| SIGN #                     | DESCRIPTION  | QTY.                   |
| 1                          | NOTICE - NO ADMITTANCE UNAUTHORIZED - 24" x 36"<br>UNAUTHORIZED PERSONS OR PRIVATE VEHICLES NOT ALLOWED BEYOND THIS POINT. VIOLATORS WILL BE PROSECUTED.<br>REFERENCE:<br>TAPCO PART NO. 373-01081<br>IBIS SIGNS PART NO. 11-2436A | 1                      |
| 2                          | NO TRESPASSING - 18" x 12"<br>REFERENCE:<br>TAPCO PART NO. 373-04409<br>IBIS SIGNS PART NO. 11-1812B<br>(FOR PERIMETER FENCE)<br>INSTALL AT 100'-0" INTERVALS  | AS REQ'D               |
| 3                          | ALL VISITORS MUST REPORT TO OFFICE - 18" x 18"<br>REFERENCE:<br>TAPCO PART NO. 373-00844<br>IBIS SIGNS PART NO. 11-1818C   | 1                      |
| 4                          | STOP SIGN - STANDARD 24" x 24" - INSTALLED AT A HEIGHT OF 7 FEET.<br>REFERENCE:<br>TAPCO PART NO. 373-01632<br>IBIS SIGNS PART NO. 11-R1-1   | 3                      |
| 5                          | SPEED LIMIT 10 MPH - 24" x 18"<br>REFERENCE:<br>TAPCO PART NO. 373-04730<br>IBIS SIGNS PART NO. 11-R2-1  | 3                      |
| 6                          | ADA ACCESSIBILITY SIGN - 18" x 12"<br>REFERENCE:<br>TAPCO PART NO. 373-00081D9-6<br>IBIS SIGNS PART NO. 11-R7-8<br>PC ALUMINUM W/VINYL GRAPHIC<br>(SEE NOTE #5)  | 6                      |
| 7                          | VAN ACCESSIBILITY SIGN - 9" x 18"<br>REFERENCE:<br>TAPCO PART NO. 373-04828<br>IBIS SIGNS PART NO. 11-R7-8A<br>(SEE NOTE #5)   | AS REQ'D BY LOCAL CODE |
| 8                          | MOTORCYCLE PARKING ONLY SIGN - 18" x 12"<br>REFERENCE:<br>TAPCO PART NO. 373-05906<br>IBIS SIGNS PART NO. 11-18M0  | 0                      |
| 9                          | FACILITY ADDRESS SIGN - 36"H x 60"W x 72" OAH (MIN.)<br>REF. BLAIR PART NO. D411G<br>COORDINATE WITH AUTHORITY HAVING JURISDICTION   | 1                      |
| 10                         | NO ENGINE IDLING SIGN - 20" x 24"<br>REFERENCE:<br>TAPCO PART NO. 100092<br>IBIS SIGNS PART NO. 11-2024D   | 7                      |

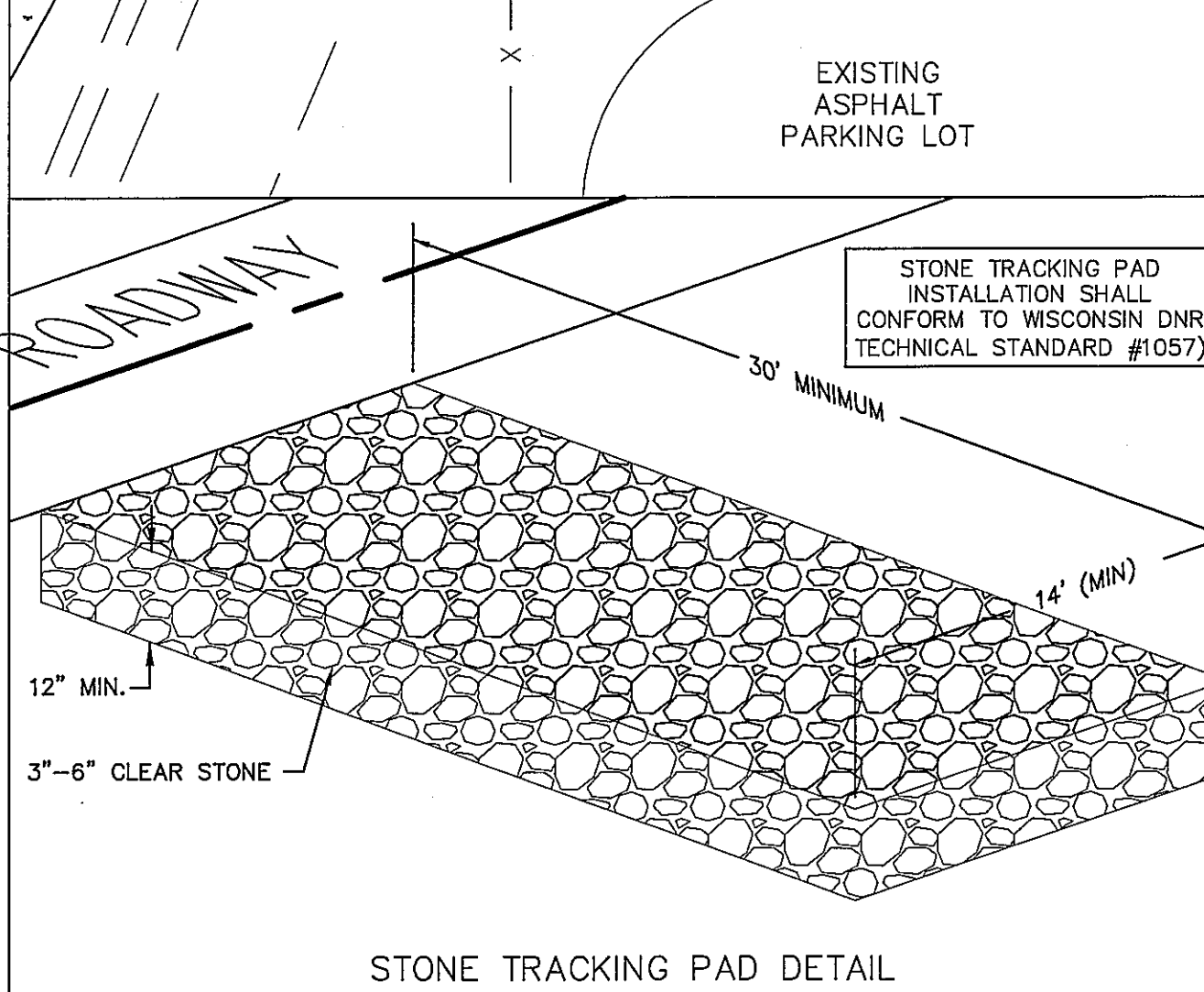
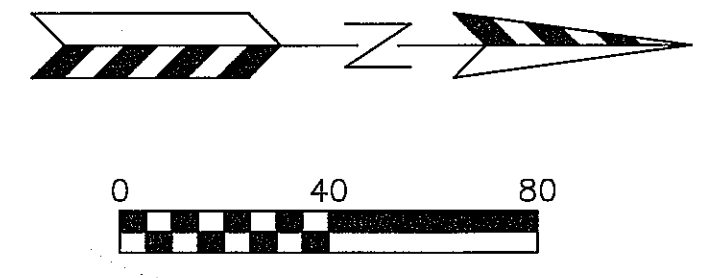
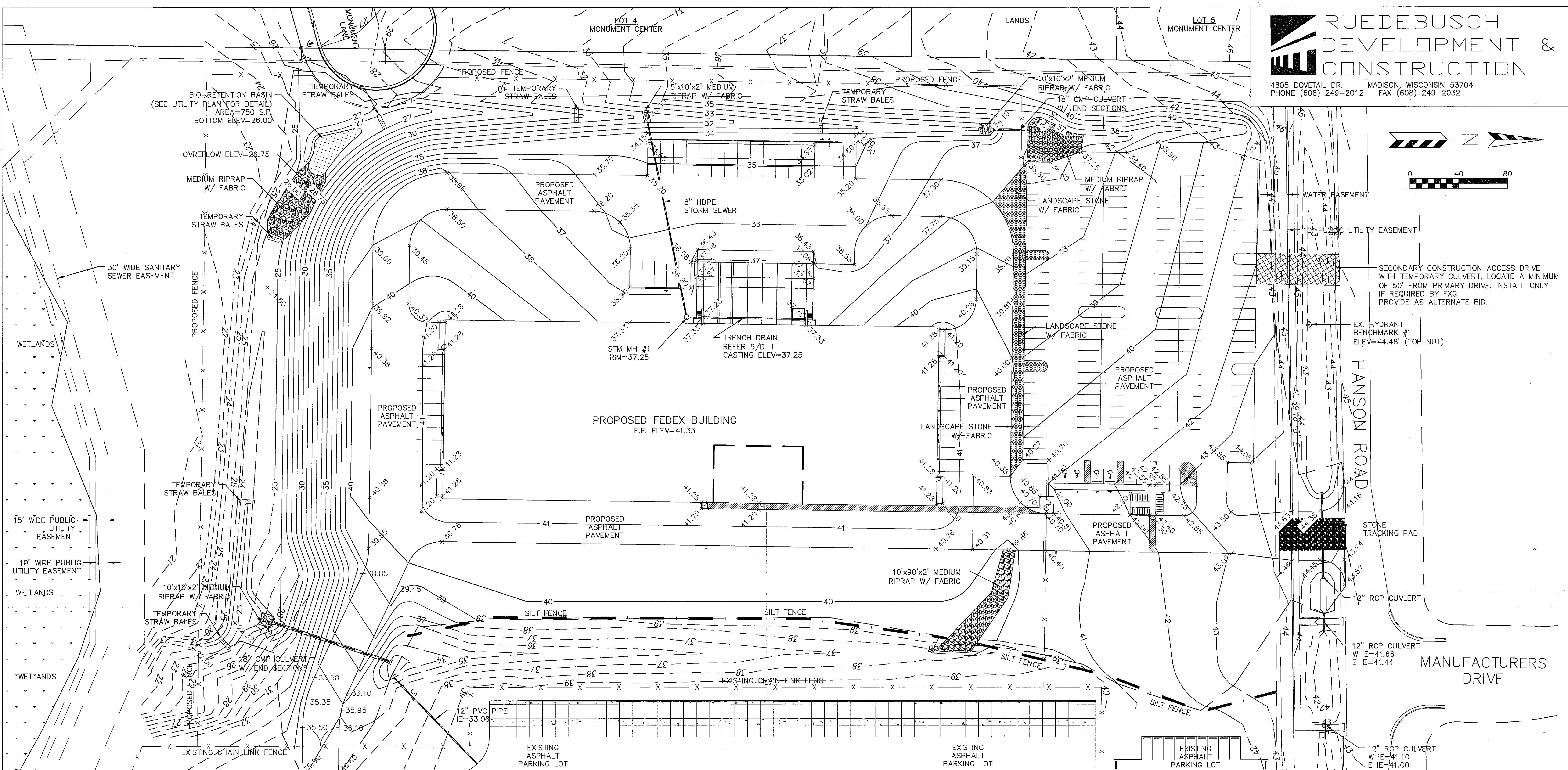


**RUEDEBUSCH DEVELOPMENT & CONSTRUCTION**  
 4605 DOVETAIL DR. MADISON, WISCONSIN 53704  
 PHONE (608) 249-2012 FAX (608) 249-2032

FEDEX GROUND BUILDING - 3829 HANSON ROAD  
 PROPOSED SITE PLAN (RECORD DRAWINGS)  
 DATED: JULY 31, 2013  
 REVISED: OCTOBER 21, 2013

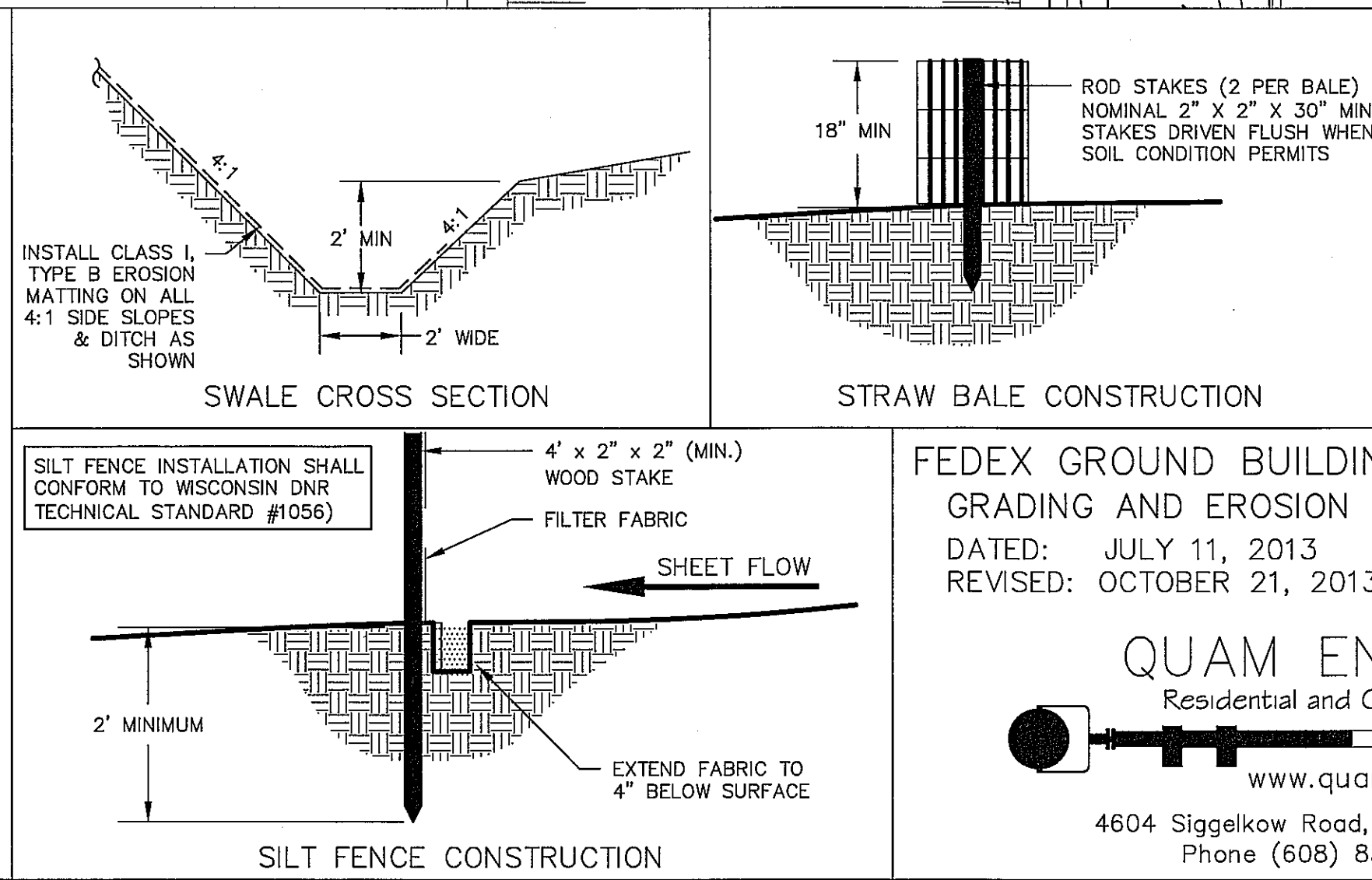
**QUAM ENGINEERING, LLC**  
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**EROSION NOTES:**  
 THE STONE TRACKING PAD SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. THE TRACKING PAD IS TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION, WHICH WILL PREVENT THE TRACK OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORKDAY.  
 SOIL STOCKPILES SHALL BE LOCATED A MINIMUM OF 75 FEET FROM LAKES, STREAMS, WETLANDS, DITCHES, DRAINAGEWAYS, CURBS AND CUTTERS OR OTHER STORMWATER CONVEYANCE SYSTEM, UNLESS OTHERWISE APPROVED BY THE ENGINEER. MEASURES SHALL BE TAKEN TO MINIMIZE EROSION AND RUNOFF FROM ANY SOIL STOCKPILES THAT WILL LIKELY REMAIN FOR MORE THAN FIVE WORKING DAYS. ANY STOCKPILE THAT REMAINS FOR MORE THAN 30 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING.  
 EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GRADING OPERATIONS AND SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS ESTABLISHED. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF A 0.5 INCH RAIN EVENT. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.  
 EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECOGNIZING AND CORRECTING ALL EROSION CONTROL PROBLEMS THAT ARE A RESULT OF CONSTRUCTION ACTIVITIES. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.  
 WHEN DISTURBED AREAS HAVE BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY EROSION CONTROL PRACTICES SUCH AS SILT FENCE, STRAW BALES AND SEDIMENT TRAPS SHALL BE REMOVED AND RESTORED WITH VEGETATION.  
 ANIONIC POLYMER: IF EROSION CONTROL BECOMES PROBLEMATIC, POLYMER SHOULD BE APPLIED TO DISTURBED AREAS (SEE DNR TECHNICAL STANDARD 1050:  
<http://dnr.wi.gov/org/water/wm/nps/pdf/stormwater/techstds/erosion/DNR1050-POLYACRYLAMIDE.PDF>

CUT AND FILL SLOPES SHALL BE NO GREATER THAN 4:1.  
 ALL SLOPES OF 25% OR GREATER WILL BE TEMPORARILY RESTORED FOLLOWING ROUGH GRADING OR WITHIN 15 DAYS OF DISTURBANCE.  
**TIME SCHEDULE:**  
 AUGUST 1, 2013 INSTALL INITIAL EROSION CONTROL DEVICES.  
 AUGUST 2 - NOVEMBER 30, 2013 CONSTRUCT PROPOSED BUILDING, PARKING LOT AND UTILITIES.  
 APRIL 15 - MAY 15, 2014 COMPLETE FINAL LANDSCAPING AND RESTORE ALL PERVIOUS DISTURBED AREAS.  
**RESTORATION NOTES:**  
 ALL DISTURBED AREAS, EXCEPT STREET PAVEMENT AND SIDEWALK AREAS, SHALL RECEIVE A MINIMUM OF SIX (6) INCHES OF TOPSOIL, FERTILIZER, SEED AND MULCH. RESTORATION WILL OCCUR AS SOON AFTER THE DISTURBANCE AS PRACTICAL. LAWN AREAS WITH SLOPES GREATER THAN 4:1 SHALL BE SEED WITH OLDS "NOMOW" MIX OR EQUAL. ALL OTHER DISTURBED AREAS SHALL BE SEED WITH MADISON PARKS MIX OR EQUAL. MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS.  
 AN EQUAL AMOUNT OF ANNUAL RYEGRASS SHALL BE ADDED TO THE MIX. SEED MIXTURES SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. FERTILIZER SHALL MEET THE MINIMUM REQUIREMENTS THAT FOLLOW: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 6%; POTASH, NOT LESS THAN 6%.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SATISFACTORY STAND OF GRASS ON ALL SEEDD AREAS FOR ONE YEAR AFTER THE PROJECT'S FINAL ACCEPTANCE.  
**OWNER:**  
 MCALLEN PROPERTIES MADISON, LLC  
 2695 GASTON ROAD  
 COTTAGE GROVE, WI 53527  
**ENGINEER:**  
 QUAM ENGINEERING, LLC  
 ATTN: RYAN QUAM  
 4604 SIGGELKOW ROAD, SUITE A  
 MCFARLAND, WI 53558



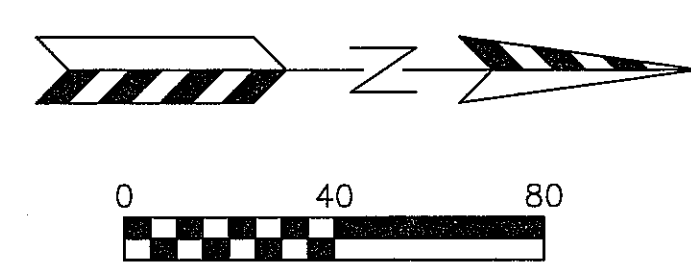
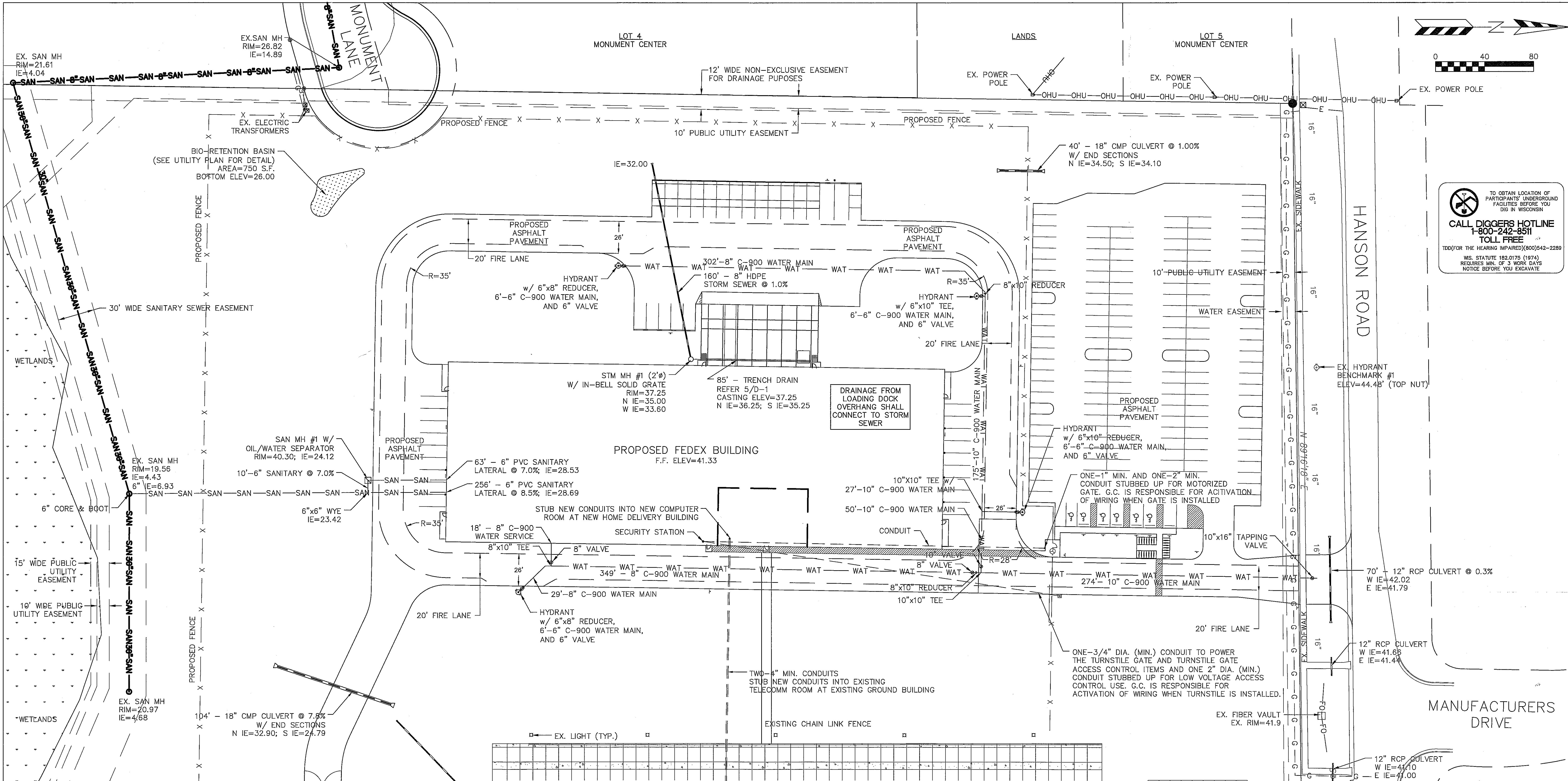
**LEGEND:**

|            |  |
|------------|--|
| --- 36 --- | EXISTING MINOR CONTOUR.                    |
| --- 35 --- | EXISTING MAJOR CONTOUR.                    |
| --- 36 --- | PROPOSED MINOR CONTOUR.                    |
| --- 35 --- | PROPOSED MAJOR CONTOUR.                    |
| - 40.00 -  | PROPOSED SPOT ELEVATION (EDGE OF PAVEMENT) |
| FF=41.33   | FIRST FLOOR ELEVATION.                     |

**FEDEX GROUND BUILDING - 3829 HANSON ROAD**  
 GRADING AND EROSION CONTROL PLAN (RECORD DRAWINGS)  
 DATED: JULY 11, 2013  
 REVISED: OCTOBER 21, 2013  
**QUAM ENGINEERING, LLC**  
 Residential and Commercial Site Design Consultants  
[www.quamengineering.com](http://www.quamengineering.com)  
 4604 Siggeikow Road, Suite A - McFarland, Wisconsin 53558  
 Phone (608) 838-7750; Fax (608) 838-7752

C-3

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A - McFarland, WI 53558 (608) 838-7750 \RD-10-13\RD10BASE.DWG



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
**CALL DIGGERS HOTLINE**  
**1-800-242-8511**  
**TOLL FREE**  
 TDD (FOR THE HEARING IMPAIRED) (800) 542-2289  
 WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

**GENERAL NOTES:**

ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CITY LICENSED CONTRACTOR.

THE CONTRACTOR SHALL REPLACE ALL DAMAGED SIDEWALK AND CURB AND GUTTER WHICH ABUTS THE PROPERTY WHICH IS DAMAGED BY CONSTRUCTION OR WHICH THE CITY ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE REGARDLESS OF WHETHER THE CONDITION EXISTED PRIOR TO BEGINNING CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN A STREET EXCAVATION PERMIT FOR THE INSTALLATION OF UTILITIES REQUIRED TO SERVE THIS PROJECT. THE CONTRACTOR SHALL PAY THE PERMIT FEE, INSPECTION FEE, AND STREET DEGRADATION FEE AND SHALL COMPLY WITH ALL CONDITIONS OF THE PERMIT.

THE CONTRACTOR SHALL OBTAIN A PERMIT TO PLUG EACH EXISTING SANITARY SEWER LATERAL THAT SERVES A BUILDING THAT IS PROPOSED FOR DEMOLITION. FOR EACH LATERAL TO BE PLUGGED THE OWNER SHALL DEPOSIT \$1,000 WITH THE CITY ENGINEER IN TWO SEPARATE CHECKS IN THE FOLLOWING AMOUNTS: (1) \$100 NON-REFUNDABLE DEPOSIT FOR THE COST OF INSPECTION OF THE PLUGGING BY CITY STAFF; AND (2) \$900 FOR THE COST OF CITY CREWS TO PERFORM THE PLUGGING. IF THE OWNER ELECTS TO COMPLETE THE PLUGGING OF A LATERAL BY PRIVATE CONTRACTOR AND THE PLUGGING IS INSPECTED AND APPROVED BY THE CITY ENGINEER, THE \$900 FEE SHALL BE REFUNDED TO THE OWNER.

THE CONTRACTOR SHALL VERIFY UTILITY MATERIAL, SIZE, AND ELEVATION PRIOR TO CONSTRUCTION.

**UTILITY NOTES:**

ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE CITY OF MADISON AND WISCONSIN DSPS STANDARDS.

THE LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM THE PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.

ALL WATER MAIN SHALL BE BURIED TO A DEPTH OF 6.5 FEET. THE DEPTH IS DEFINED AS THE DISTANCE BETWEEN THE FINISHED GRADE ELEVATION AND THE TOP OF WATER MAIN OR SERVICE.

MAINTAIN AN 8 FOOT MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN PUBLIC SANITARY SEWER, WATER MAIN AND STORM SEWER. PROVIDE 18" MINIMUM VERTICAL SEPARATION WHERE SEWER CROSSES OVER WATER MAIN AND PROVIDE 6" MINIMUM VERTICAL SEPARATION WHERE WATER MAIN CROSSES OVER SEWER.

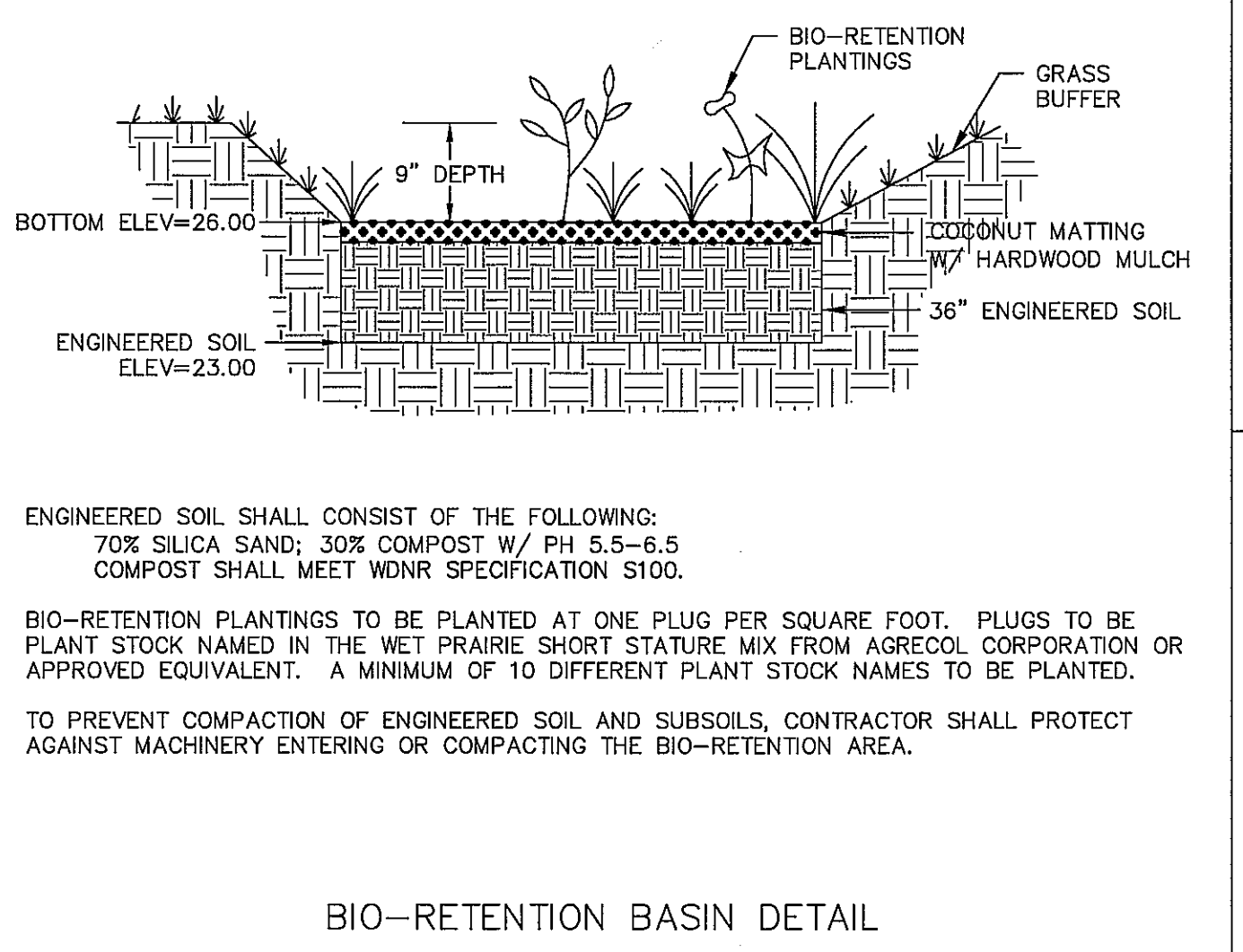
ANY UTILITIES WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

ALL UNDERGROUND EXTERIOR NON-METALLIC SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORDANCE WITH 182.0715(2r) OF STATE STATUTES.

THE PROPOSED ELECTRIC, TELEPHONE AND GAS UTILITY LOCATIONS ARE NOT SHOWN. ACTUAL LOCATIONS AND DESIGN SHALL BE COMPLETED BY OTHERS.

ANY DAMAGE TO HANSON ROAD PAVEMENT WILL REQUIRE RESTORATION IN ACCORDANCE WITH THE CITY OF MADISON PATCHING CRITERIA.

SANITARY LATERAL PLUG SHALL BE IN ACCORDANCE WITH REVISIONS TO MADISON GENERAL ORDINANCE CHAPTER 35 INCLUDING ADDITIONAL FEE FOR PLUGGING AT THE MAIN IF APPLICABLE.



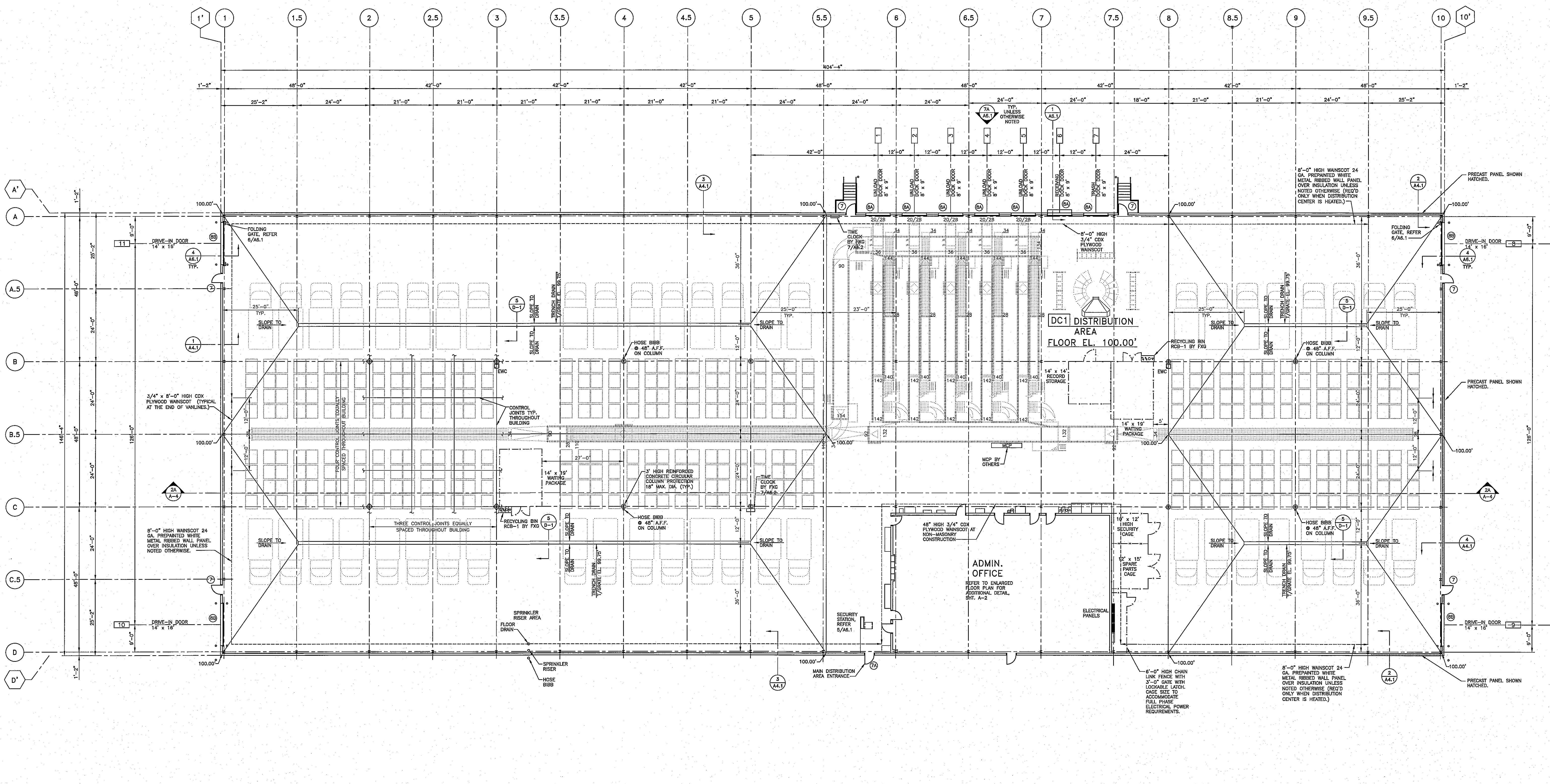
**RUEDEBUSCH DEVELOPMENT & CONSTRUCTION**

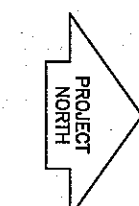
4605 DOVETAIL DR. MADISON, WISCONSIN 53704  
 PHONE (608) 249-2012 FAX (608) 249-2032

**FEDEX GROUND BUILDING - 3829 HANSON ROAD**  
 UTILITY AND FIRE LANE PLAN (RECORD DRAWINGS)  
 DATED: JULY 11, 2013  
 REVISED: SEPTEMBER 16, 2013

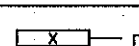

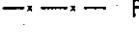

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www.quamengineering.com  
 4604 Siggelkow Road, Suite A - McFarland, Wisconsin 53558  
 Phone (608) 838-7750; Fax (608) 838-7752



 **BUILDING PLAN**  
 SCALE: 1/16" = 1'-0"

**LEGEND**

-  DOOR NUMBER
-  COLUMN NUMBER
-  SHEET LINE NUMBER
-  FENCE

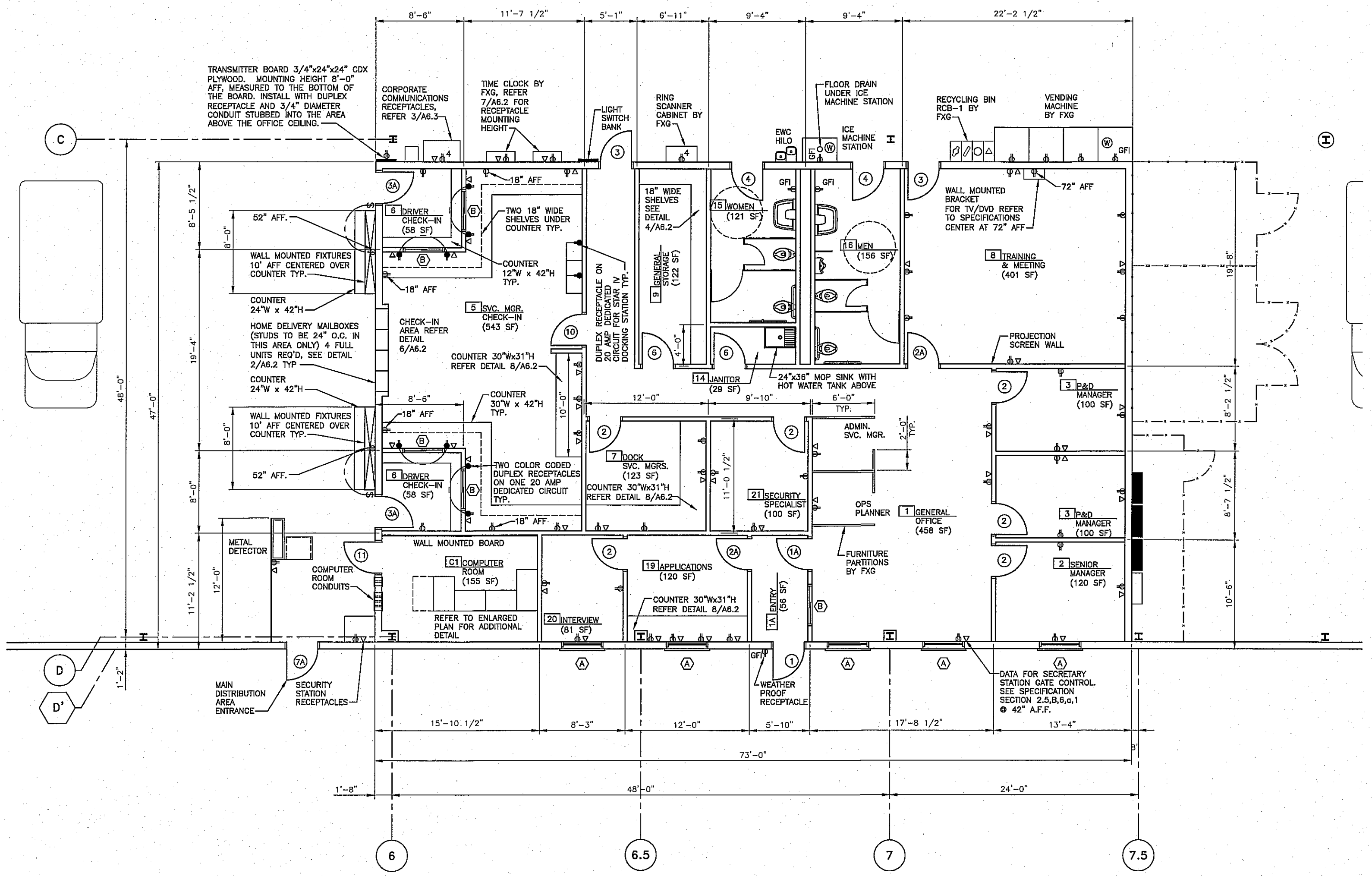
- NOTES:**
1. PERIMETER WALLS & FOUNDATIONS AT GRADE AREAS SHALL BE 8" ABOVE NOMINAL FIN. FL. ELEVATIONS REFER 2/D-2.
  2. CONVEYOR EQUIPMENT TO BE FURNISHED AND INSTALLED BY TENANT.
  3. DISTRIBUTION AREA (AND VEHICLE MAINTENANCE GARAGE, IF ANY) WILL BE HEATED.
  4. REFER TO ELEVATIONS TO VERIFY DOOR INSTALLATION THIS PHASE.

**RECORD DRAWING**  
 02.20.15

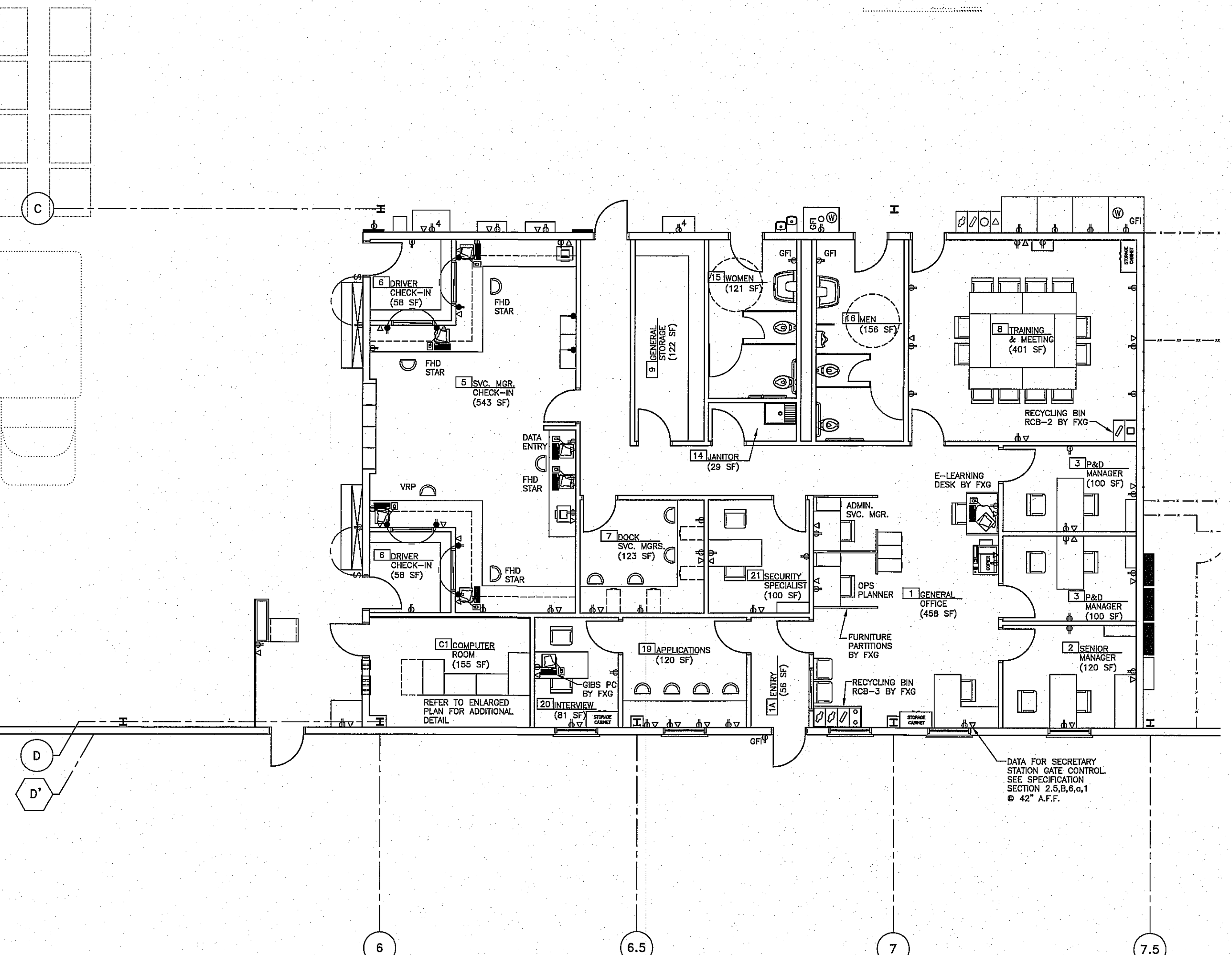
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SHEET TITLE:  
**BUILDING PLAN**

|              |          |
|--------------|----------|
| JOB NUMBER:  | I3002    |
| DESIGNED BY: | DN       |
| DRAWN BY:    | MW       |
| CHECKED BY:  | DN       |
| DATE:        | 07.22.13 |
| SHEET NO.:   |          |



**1 OFFICE FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
OFFICE SF = 3,431 SF



**2 OFFICE FURNITURE PLAN**  
SCALE: 1/8" = 1'-0"  
(FOR REFERENCE ONLY)

| RECYCLE BINS BY FXG |       |
|---------------------|-------|
|                     | TOTAL |
| RCB-1               | 3     |
| RCB-2               | 1     |
| RCB-3               | 1     |

- NOTES:
- ROUND ALL COUNTER CORNERS 1" RADIUS.
  - QUARTER ROUND WOOD MOULDING AT BACK OF ALL COUNTER TOPS, PAINTED TO MATCH WALLS.
  - PROVIDE 2 1/2" DIA. HOLES W/GROMMETS IN ALL COUNTERS ABOVE ALL RECEPTACLES EXCEPT 18" AFF. RECEPTACLES IN SVC. MGR. CHECK-IN

- △ LOCATION OF FLUSH SINGLE GANG TELEPHONE OUTLET WITH 3/4" CONDUIT W/PULL WIRE TO ACCESSIBLE CEILING SPACE. TERMINATE CONDUITS WITH PLASTIC BUSHINGS. INSTALL COVER PLATES AT ALL LOCATIONS. (TYP)
- ▲ OFFICE AREA: CONDUIT W/PULL WIRE FROM TELEPHONE BOARD TO OFFICE CEILING SPACE. SIZE AS NOTED.
- ▲ DISTRIBUTION CENTER: CONDUIT W/PULL WIRE FROM TELEPHONE BOARD/DEVICE TO WAREHOUSE. JOIST SPACE. SIZE TO BE 3/4" UNLESS OTHERWISE NOTED.
- JUNCTION BOX W/20 AMP DEDICATED CIRCUIT TO A LOCKABLE BREAKER. LABEL BOX W/BREAKER AND PANEL.
- ⊙ SPECIAL LOCATION DUPLEX RECEPTACLES, OTHERS NOT SHOWN ON PLAN
- DUPLEX RECEPTACLE ON DEDICATED CIRCUIT
- ⊙ QUADRUPLEX RECEPTACLE
- ⊙ QUADRUPLEX RECEPTACLE ON DEDICATED CIRCUIT
- ⊙ GROUND FAULT INTERRUPT DUPLEX RECEPTACLES
- ⊙ 1/2" COPPER COLD WATER SUPPLY LINE WITH 1/4" REDUCER AND VALVE
- NEW DOOR REFER TO DOOR SCHEDULE
- NEW WINDOW REFER TO WINDOW SCHEDULE
- X ROOM FINISH REFERENCE NUMBER, REFER TO ROOM FINISH SCHEDULE
- \$ WALL LIGHT SWITCH
- NEW FLUORESCENT LIGHT FIXTURE APPROVED LIGHT FIXTURES W/2-F096/735/HO/ECO TOLP COMPLIANT LAMPS WITH 8220 MINVA. LUMENS AND ELECTRONIC RAPID START BALLASTS WITH ≤ 10% THD:  
- LITHONIA #EJ3-296THO SERIES  
- DV-BRITE #E3-286HO SERIES  
- METALUX #BT-DCIM-296HO SERIES  
- COLUMBIA #KLS-296THO SERIES

DATE:

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SHEET TITLE:  
OFFICE PLAN

JOB NUMBER: 13002

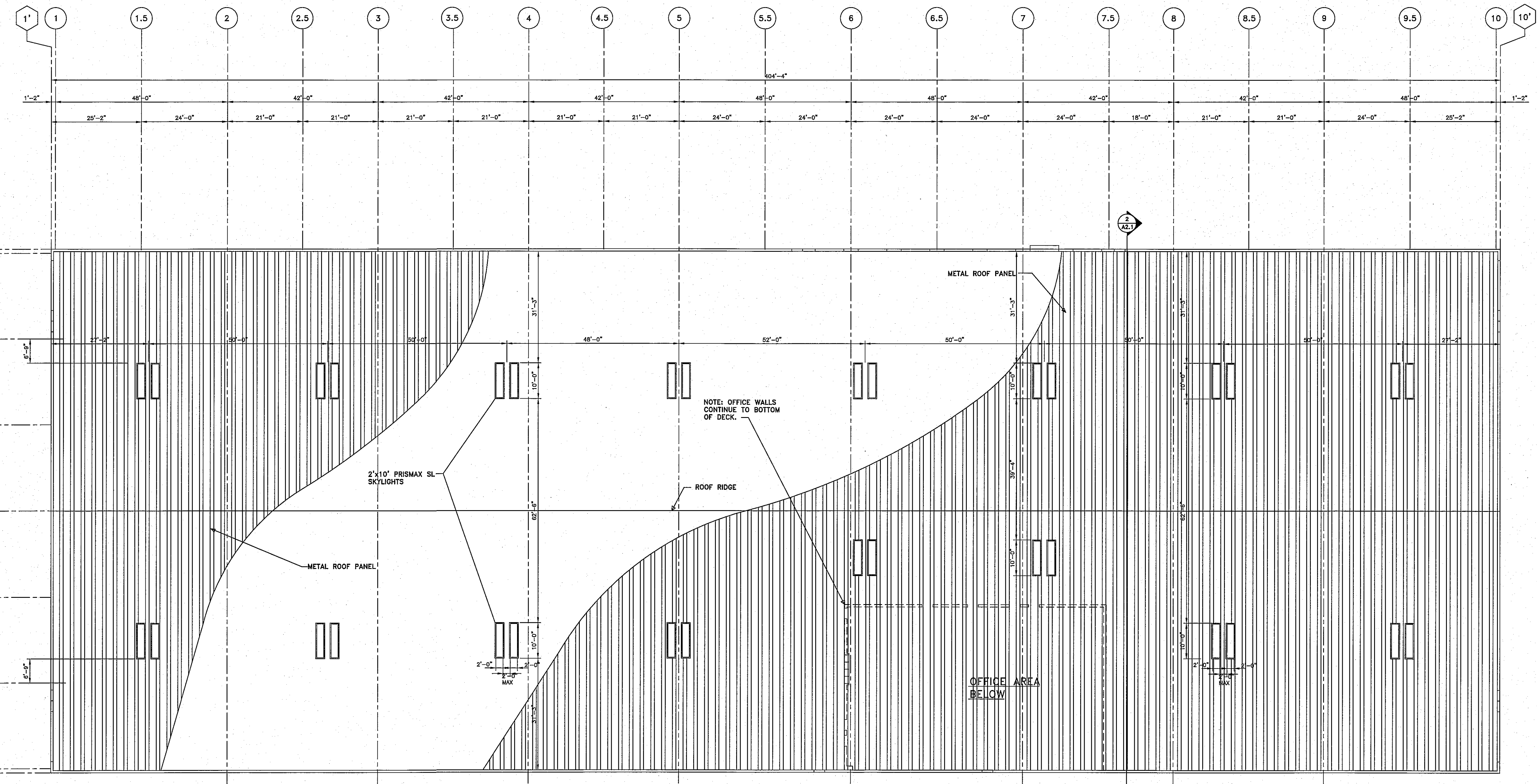
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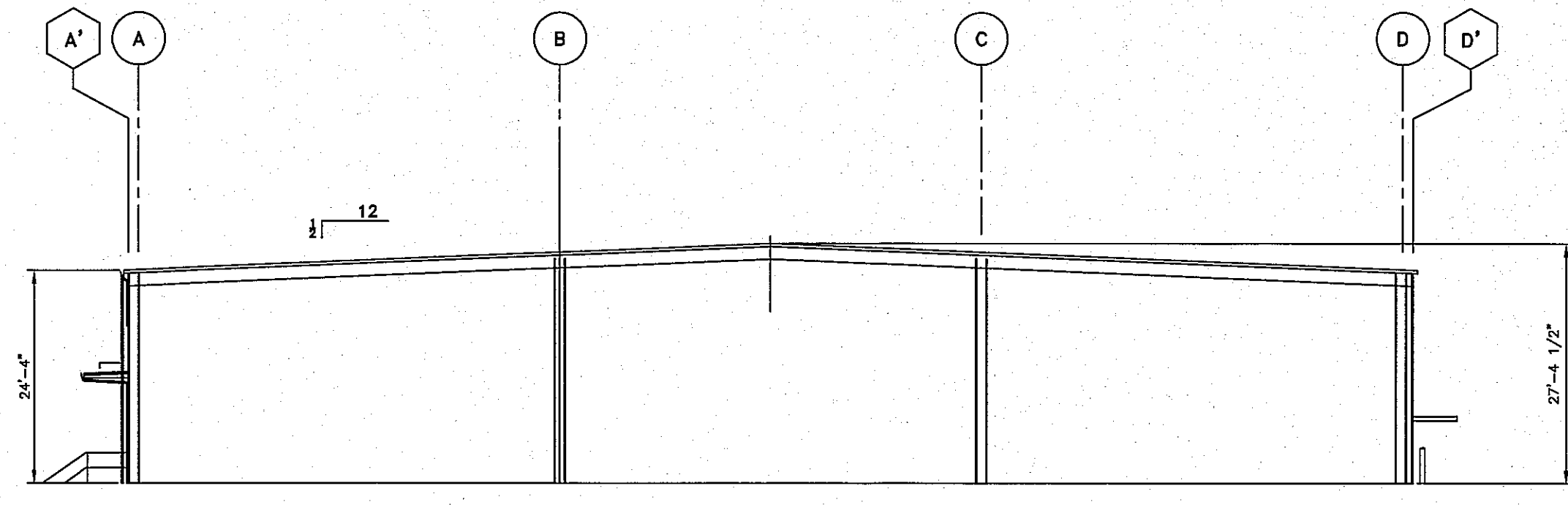
CHECKED BY: DN

DATE: 7.22.13

SHEET NO:



**1** ROOF PLAN  
 SCALE: 1/16" = 1'-0"



**2** SCHEMATIC BUILDING SECTION  
 SCALE: 1/16" = 1'-0"

**NOTES**

TOTAL SQ. FT. OF BUILDING = 59,167

SMOKE AND HEAT VENT  
 2' x 10' MIN 20 SQ. FT. OF VENTING.

FLOOR TO VENT RATIO = 1:100  
 2000 S.F. PER VENT

32 VENTS PROVIDE 64,000 S.F. OF VENTING

THERE SHALL BE NO MORE THAN A 2' GAP BETWEEN THE SKYLIGHTS IN A PAIR. PAIRS MAY BE MOVED A MAXIMUM OF 2' Laterally TO MISS BLDG. STRUCTURE.

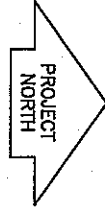
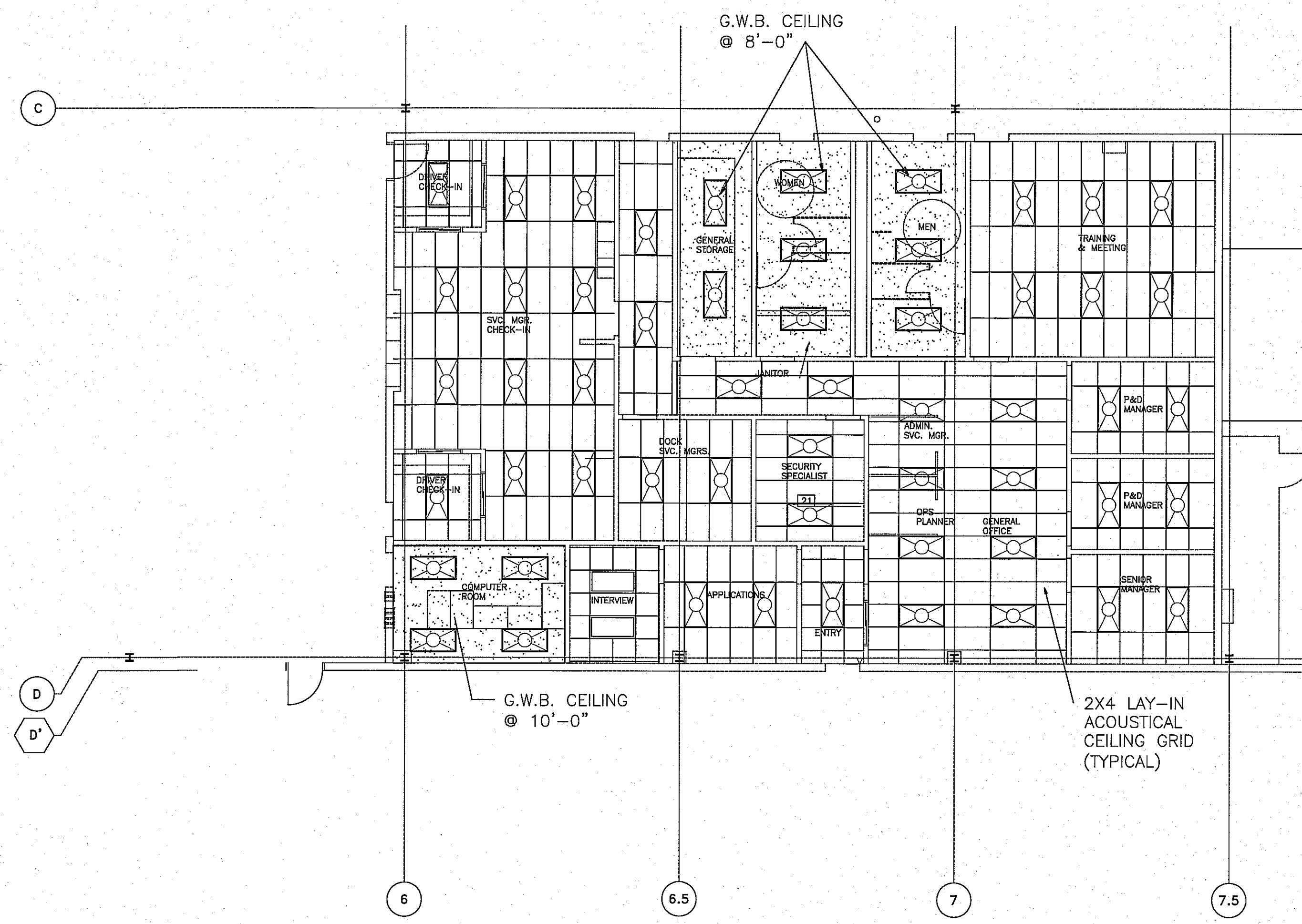
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|--------------------------------|----------|
| SHEET TITLE:<br>ROOF VENT PLAN |          |
| JOB NUMBER:                    | 13002    |
| DESIGNED BY:                   | DN       |
| DRAWN BY:                      | MW       |
| CHECKED BY:                    | DN       |
| DATE:                          | 07.22.13 |
| SHEET NO.:                     |          |

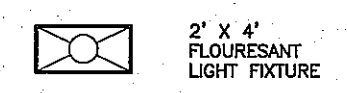
A2.1





**OFFICE REFLECTED CEILING PLAN**  
 SCALE: 1/8" = 1'-0"  
 (FOR REFERENCE ONLY)

KEY



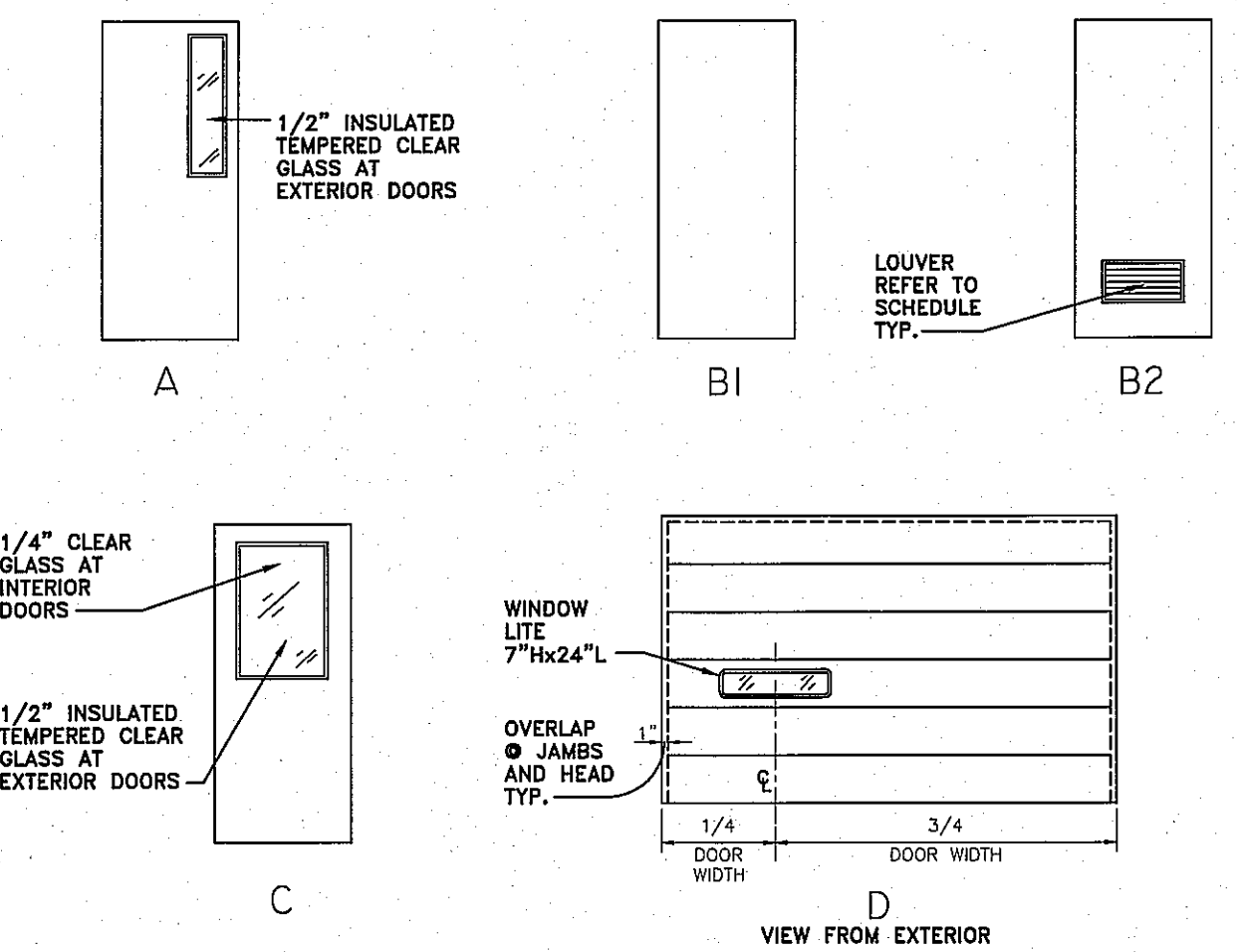
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| DATE:                                  |           |
| NO.                                    | REVISION: |
| SHEET TITLE:<br>REFLECTED CEILING PLAN |           |
| JOB NUMBER:                            | 13002     |
| DESIGNED BY:                           | DN        |
| DRAWN BY:                              | MW        |
| CHECKED BY:                            | DN        |
| DATE:                                  | 7.22.13   |
| SHEET NO:                              |           |

**A-2.2**

ROOM FINISH SCHEDULE

| NO. | NAME                         | FLOOR                  | BASE      | WALLS                            | CEILING                | CLG. HT.    | REMARKS |
|-----|------------------------------|------------------------|-----------|----------------------------------|------------------------|-------------|---------|
| 1   | GENERAL OFFICE               | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 1A  | ENTRY                        | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 2   | SENIOR MANAGER               | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 2A  | P & D MANAGER                | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 2B  | P & D MANAGER                | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 2C  | P & D MANAGER                | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 2D  | P & D MANAGER                | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 3   | SRM MANAGER                  | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 4   | SRM MANAGER                  | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 5   | SVC. MGR. CHECK-IN           | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 6   | SVC. MGR. CHECK-IN           | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 7   | DRIVER CHECK-IN              | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 8A  | DRIVER CHECK-IN              | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 7   | DOCK SVC. MGRS.              | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 7A  | P&D COORDINATORS             | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 8   | TRAINING & MEETING RM.       | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 9   | GENERAL STORAGE              | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 10  | SALES                        | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 11  | SALES STORAGE                | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 12  | SALES MGR                    | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 13A | SALES MGR                    | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 13B | SALES MGR                    | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 14  | SALES EXEC                   | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 15A | SALES EXEC                   | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 14  | JANITOR                      | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | MR GWB FIXED           | 8'-0"       |         |
| 15  | WOMEN                        | CONCRETE WITH SEALER   | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | MR GWB FIXED           | 8'-0"       |         |
| 16  | MEN                          | CONCRETE WITH SEALER   | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | MR GWB FIXED           | 8'-0"       |         |
| 17  | OFFICE TOILET ROOM (MEN)     | CONCRETE WITH SEALER   | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | MR GWB FIXED           | 8'-0"       |         |
| 18  | OFFICE TOILET ROOM (WOMEN)   | CONCRETE WITH SEALER   | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | MR GWB FIXED           | 8'-0"       |         |
| 19  | APPLICATIONS                 | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 20  | INTERVIEW                    | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 20A | INTERVIEW                    | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 20B | INTERVIEW                    | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 20C | INTERVIEW                    | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 21  | SECURITY SPECIALIST          | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 22  | SECURITY EQUIPMENT           | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 23  | TELECOMM                     | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 24  | SAFE                         | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 25  | SAFE STORAGE                 | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 26  | TRAINING/MEETING STORAGE     | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 27  | SEPS                         | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 28  | UNIVERSITY OFFICE            | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 29  | UNIVERSITY STORAGE           | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 30  | UNIVERSITY CLASS ROOM        | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 31  | CONTRACTOR RELATIONS MANAGER | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 32  | CONTRACTOR RESOURCE MANAGER  | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 33  | CRS GENERAL                  | CASPET                 | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 34  | CRS MGR ROOM                 | CASPET                 | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 35  | CPE MANAGER                  | CASPET                 | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 36  | SCANNER EQUIPMENT ROOM       | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 37A | LPH SVC. MGR. CHECK-IN       | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 37B | LPH DRIVER CHECK-IN          | VCT                    | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | SUSP./ACT              | 8'-0"       |         |
| 38  | ELECTRICAL ROOM              | CONCRETE WITH SEALER   | NONE      | 5/8" GYPSUM WALLBOARD (NO PAINT) | EXPOSED                | FULL HEIGHT |         |
| 39  | SPRINKLER RISER ROOM         | CONCRETE WITH SEALER   | NONE      | 5/8" GYPSUM WALLBOARD (NO PAINT) | EXPOSED                | FULL HEIGHT |         |
| DC1 | DISTRIBUTION AREA            | CONCRETE WITH SEALER   | NONE      | 5/8" GYPSUM WALLBOARD (NO PAINT) | EXPOSED                | FULL HEIGHT |         |
| 39A | REMOTE TOILET ROOM (WOMEN)   | CONCRETE WITH SEALER   | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | MR GWB FIXED           | 8'-0"       |         |
| 39B | REMOTE TOILET ROOM (MEN)     | CONCRETE WITH SEALER   | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | MR GWB FIXED           | 8'-0"       |         |
| C1  | COMPUTER ROOM                | STATIC DISSIPATIVE FLR | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | MR GWB FIXED           | 10'-0"      |         |
| 31  | SECURITY BUILDING            | RUBBER                 | 4" RUBBER | 5/8" GYPSUM WALLBOARD (PAINTED)  | MR GWB FIXED (PAINTED) | 8'-0"       |         |



DOOR TYPES  
NO SCALE

DOOR SCHEDULE

| NO.  | SIZE                   | DOOR TYPE | MATERIAL | FRAME | HW. SET | REMARKS   |
|------|------------------------|-----------|----------|-------|---------|---|
| (1)  | 3'-0" x 7'-0" x 1 3/4" | A         | HM       | HM    | 1       |   |
| (1A) | 3'-0" x 7'-0" x 1 3/4" | C         | HM       | HM    | 15      |   |
| (2)  | 3'-0" x 7'-0" x 1 3/4" | C         | HM       | HM    | 7       |   |
| (2A) | 3'-0" x 7'-0" x 1 3/4" | C         | HM       | HM    | 13      |   |
| (3)  | 3'-0" x 7'-0" x 1 3/4" | A         | HM       | HM    | 16      | DOORS FROM OFFICE AREA TO WAREHOUSE AREA ARE CONSIDERED EXTERIOR DOORS. |
| (3A) | 3'-0" x 7'-0" x 1 3/4" | A         | HM       | HM    | 6       | DOORS FROM OFFICE AREA TO WAREHOUSE AREA ARE CONSIDERED EXTERIOR DOORS. |
| (4)  | 3'-0" x 7'-0" x 1 3/4" | B2        | HM       | HM    | 4       | LOUVER, AS REQUIRED BY DESIGN   |
| (5)  | 3'-0" x 7'-0" x 1 3/4" | B2        | HM       | HM    | 2       |   |
| (6)  | 3'-0" x 7'-0" x 1 3/4" | B2        | HM       | HM    | 2       | LOUVER, AS REQUIRED BY DESIGN   |
| (7)  | 3'-0" x 7'-0" x 1 3/4" | B1        | HM       | HM    | 3       |   |
| (7A) | 3'-0" x 7'-0" x 1 3/4" | B1        | HM       | HM    | 12      | REQUIRES DETEX DOOR ALARM, REFER TO SPECIFICATIONS                      |
| (8)  | 12'-2" X 12'-2"        | D         | OH STEEL | METAL | -       | MOTOR OPERATED  |
| (9)  | 8'-2" X 9'-1"          | D         | OH STEEL | METAL | -       | MOTOR OPERATED  |
| (10) | 16'-2" X 16'-1"        | D         | OH STEEL | METAL | -       | MOTOR OPERATED  |
| (11) | 12'-2" X 16'-1"        | D         | OH STEEL | METAL | -       | CHAIN OPERATED  |
| (12) | 12'-2" X 16'-1"        | D         | OH STEEL | METAL | -       | CHAIN OPERATED  |
| (13) | 8'-2" X 9'-1"          | D         | OH STEEL | METAL | -       | ROLLED  |
| (14) | 14'-2" X 16'-1"        | D         | OH STEEL | METAL | -       | MOTOR OPERATED WITH 5 WINDOW LITES                                      |
| (15) | 6'-2" X 8'-1"          | D         | OH STEEL | METAL | -       | ROLLED  |
| (16) | 18'-2" X 18'-1"        | D         | VARIOUS  | METAL | -       | MOTOR OPERATED, RAMP ROLL-UP  |
| (17) | 8'-2" X 9'-1"          | D         | OH STEEL | METAL | -       | ROLLED  |
| (18) | 18'-2" X 18'-1"        | D         | VARIOUS  | METAL | -       | MOTOR OPERATED, RAMP ROLL-UP  |
| (19) | 12'-2" X 16'-1"        | D         | OH STEEL | METAL | -       | ROLLED  |
| (20) | 12'-2" X 16'-1"        | D         | OH STEEL | METAL | -       | ROLLED  |
| (21) | 3'-0" x 7'-0" x 1 3/4" | C         | HM       | HM    | 9       |   |
| (22) | 3'-0" x 7'-0" x 1 3/4" | A         | HM       | HM    | 18      |   |
| (23) | 3'-0" x 7'-0" x 1 3/4" | A         | HM       | HM    | 19      |   |
| (24) | 3'-0" x 7'-0" x 1 3/4" | B1        | HM       | HM    | 11      | DOUBLE WIDE (S)   |
| (25) | 3'-0" x 7'-0" x 1 3/4" | B1        | HM       | HM    | 11      |   |
| (26) | 3'-0" x 7'-0" x 1 3/4" | BE        | HM       | HM    | 2       | LOUVER, AS REQUIRED BY DESIGN   |
| (27) | 3'-0" x 7'-0" x 1 3/4" | A         | HM       | HM    | 1       |   |
| (28) | 3'-0" x 7'-0" x 1 3/4" | A         | HM       | HM    | 17      | DOOR WITH REMOVABLE POST  |

ROOM FINISH NOTES:  
 1.) WALLS FOR SUPPLY ROOMS, TOILET ROOMS, SENIOR MANAGER'S OFFICE AND TRAINING ROOM SHALL BE EXTENDED 12" ABOVE THE FINISHED CEILING HEIGHT DIMENSION.  
 2.) THE DOCKSIDE OFFICE PERIMETER WALL, INCLUDING MAINTENANCE SHOP, SPRINKLER ROOM, SWITCHGEAR ROOM, ETC. SHALL BE EXTENDED FULL HEIGHT TO THE BUILDING ROOF.  
 3.) IF AREA ABOVE CEILING SYSTEM IS OCCUPIED BY HVAC EQUIPMENT, PROVIDE ADEQUATE ACCESS FOR SERVICE TO SAID UNIT(S).  
 4.) ALL CORRIDORS SHALL BE FINISHED TO MATCH THE GENERAL OFFICE.  
 5.) EXISTING BUILDINGS/EXPANSIONS ONLY: EXPANDED OFFICE AREA SHALL MATCH EXISTING FINISHES/COLORS. NEW OFFICE AREA IF PROVIDED, SHALL FOLLOW SPECIFIED FINISHES/COLORS

WINDOW SCHEDULE

| TYPE | SIZE          | MATERIAL                |
|------|---------------|-------------------------|
| (A)  | 4'-0" X 4'-0" | ALUMINUM                |
| (X)  | 3'-0" X 4'-0" | ALUMINUM                |
| (Y)  | 3'-0" X 3'-0" | ALUMINUM                |
| (Z)  | 2'-0" X 3'-0" | ALUMINUM                |
| (B)  | 4'-0" X 3'-0" | ALUMINUM HORIZ. SLIDING |

WINDOW TYPES  
NO SCALE

**RUEDEBUSCH DEVELOPMENT & CONSTRUCTION**  
 DEVELOPMENT • CONSTRUCTION • BROKERAGE • CONSULTING  
 4625 DOVETAIL DRIVE MADISON, WI 53704  
 PHONE 608-249-2012 FAX 608-249-2032

**FedEx Ground**  
 FACILITIES & MATERIAL HANDLING SYSTEMS  
 1000 FedEx Drive Moon Township, PA 15108  
 412-269-1000

This drawing is the Proprietary Property of FEDEX GROUND PACKAGE SYSTEM, Inc. and must not be used in any other circumstance except in correlation with our work.

**FED-EX GROUND**  
 HANSON ROAD  
 MADISON, WI

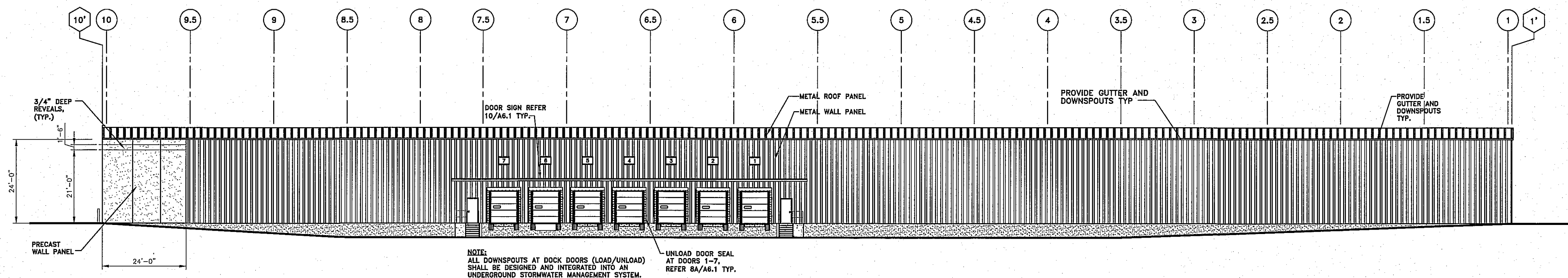
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SHEET TITLE:  
DOOR AND ROOM FINISH SCHEDULES

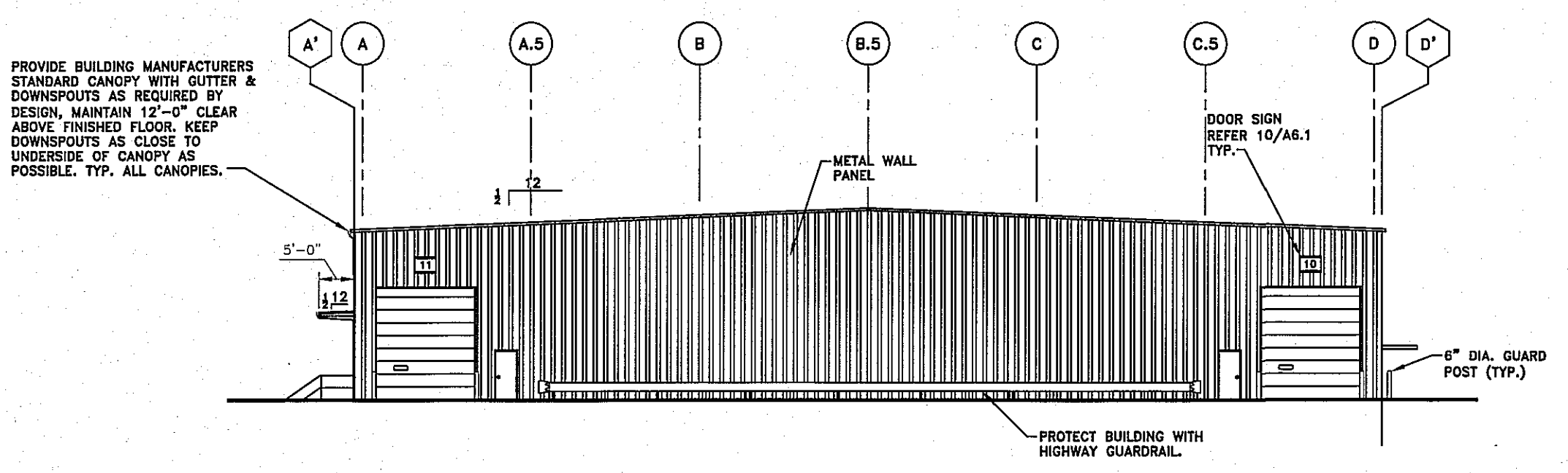
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 DESIGNED BY: DN  
 DRAWN BY: MMW  
 CHECKED BY: DN  
 DATE: 07.22.13

SHEET NO:  
**A-3**

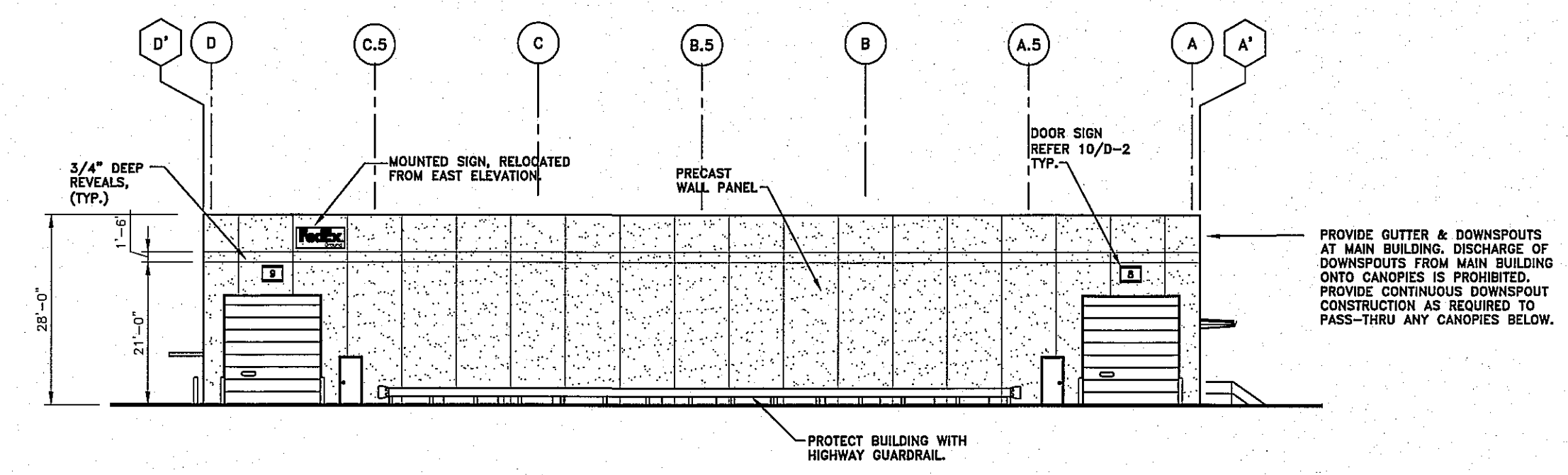
**RECORD DRAWING**  
02.20.15



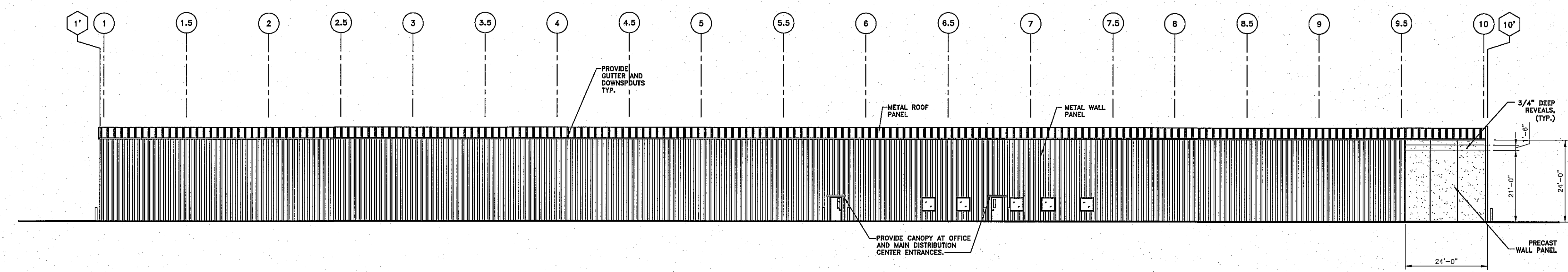
**1 WEST ELEVATION**  
SCALE: 1" = 20'-0"



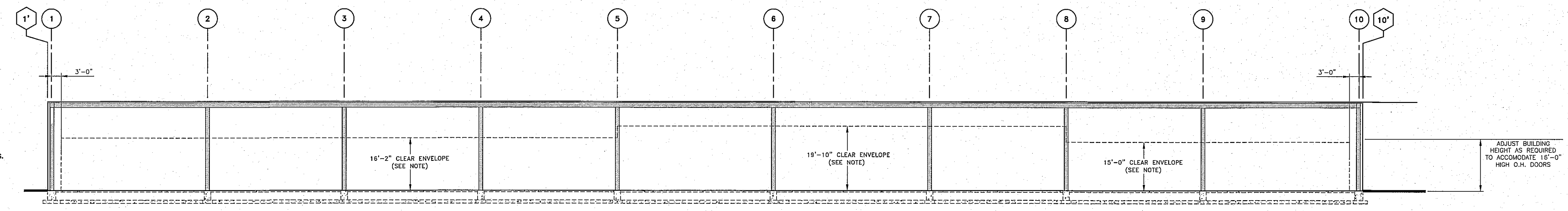
**1A SOUTH ELEVATION**  
SCALE: 1" = 20'-0"



**1B NORTH ELEVATION**  
SCALE: 1" = 20'-0"



**1C EAST ELEVATION**  
SCALE: 1" = 20'-0"



**2 SECTION**  
SCALE: 1" = 20'-0"

**NOTE:**  
CLEARANCE ENVELOPE IS AN AREA DEDICATED TO CONVEYOR EQUIPMENT AND CLEARANCES REQUIRED FOR ANY VEHICLES, PACKAGES OR EQUIPMENT TO PASS THROUGH. UNLESS NOTED OTHERWISE ALL STRUCTURAL, MECHANICAL, ELECTRICAL OR ARCHITECTURAL ASPECTS OF THIS BUILDING (INCLUDING BUT NOT LIMITED TO FIRE PROTECTION, SMOKE SCREENS, LIGHTING, CONDUITS, OVERHEAD DOORS AND TRACKS, ETC.) SHALL BE ABOVE OR OUTSIDE THE REQUIRED LIMITS AS INDICATED BY THE CLEARANCE ENVELOPE AS SHOWN ON THIS AND OTHER DRAWINGS. ALL SHOP DRAWINGS SHALL REFER TO COMPLIANCE WITH THESE LIMITS FOR ALL DISCIPLINES.

ADJUST BUILDING HEIGHT AS REQUIRED TO ACCOMMODATE 14'-0" HIGH O.H. DOORS

**RECORD DRAWING**  
02.20.15

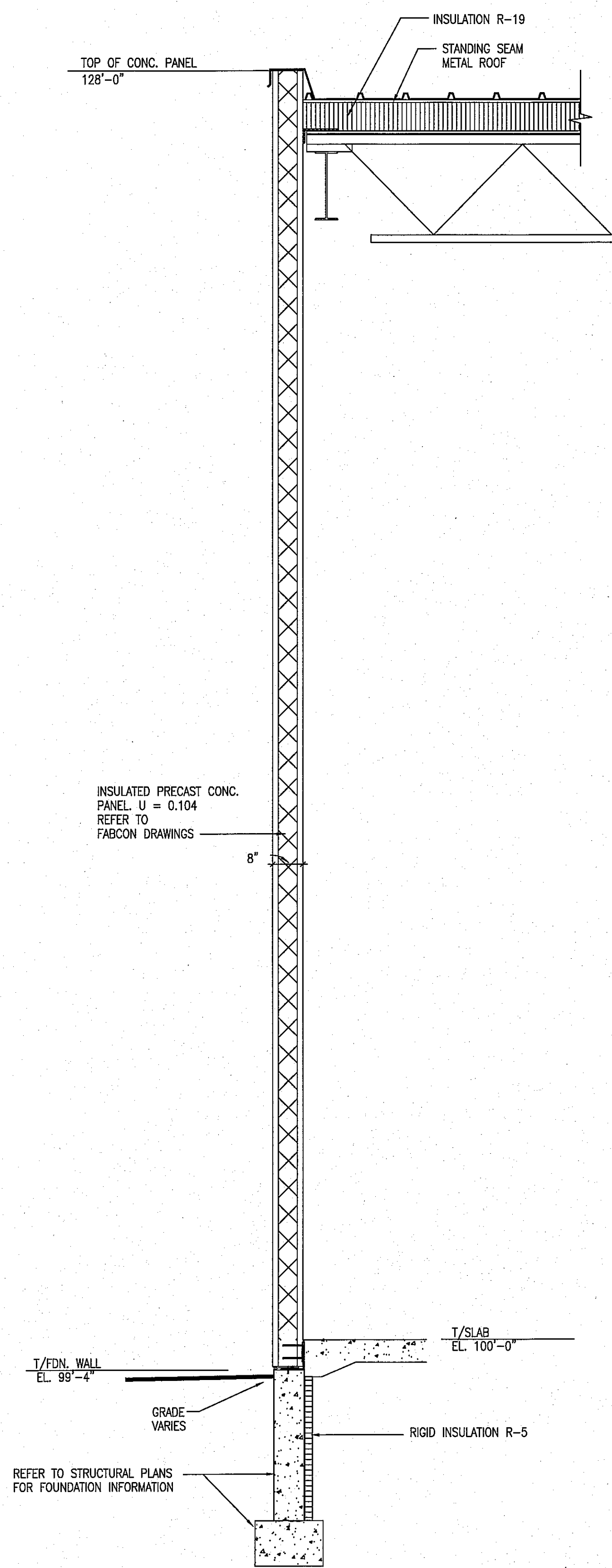
**RUEDEBUSCH  
DEVELOPMENT &  
CONSTRUCTION**  
DEVELOPMENT • CONSTRUCTION • BROKERAGE • CONSULTING  
4605 DOVETAIL DRIVE MADISON, WI 53704  
PHONE 608.249.2012 FAX 608.249.2032

**FedEx  
Ground**  
FACILITIES & MATERIAL  
HANDLING SYSTEMS  
1000 FedEx Drive  
Moon Township, PA 15108  
412-269-1000  
This drawing is the Property of FedEx Ground Package System, Inc. and must not be used in any other circumstance except in correlation with our work.

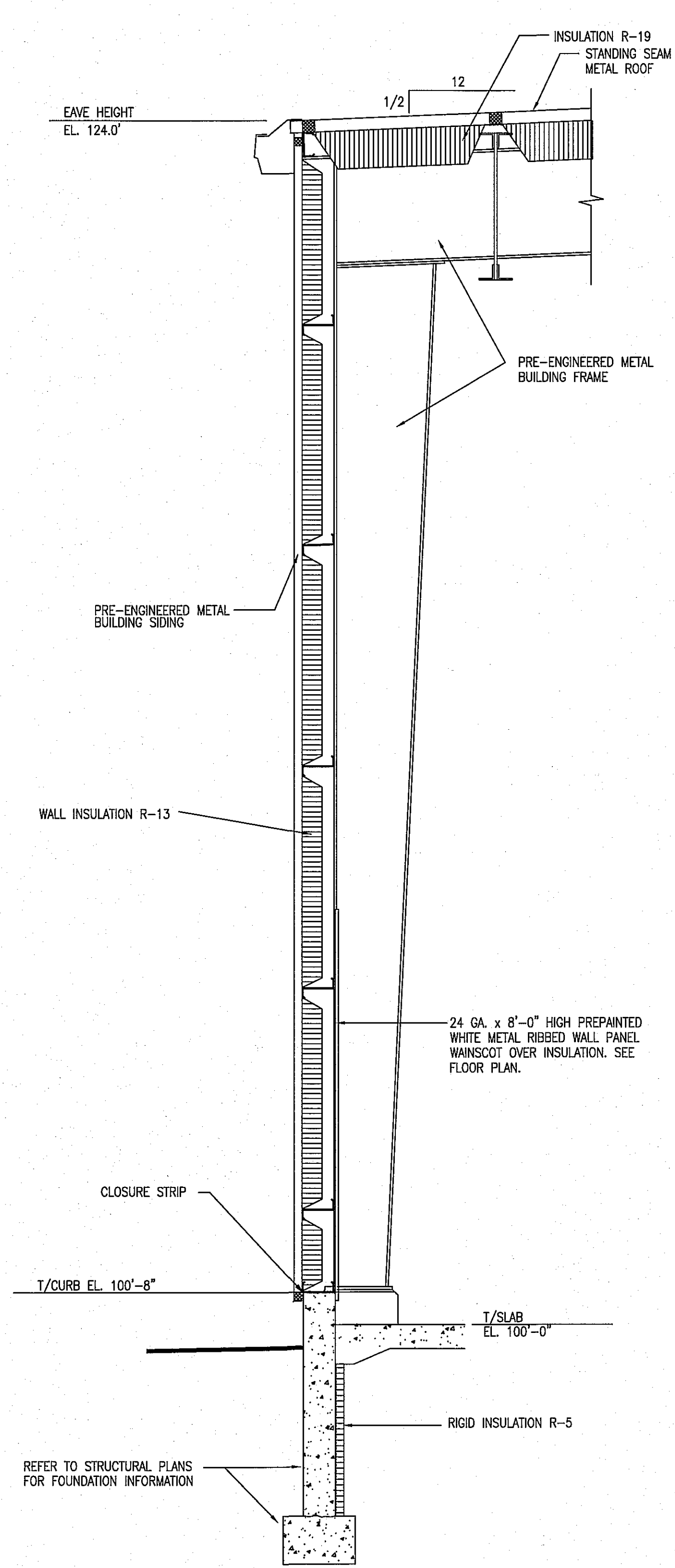
**FED-EX  
GROUND**  
HANSON ROAD  
MADISON, WI

| NO. | REVISION | DATE |
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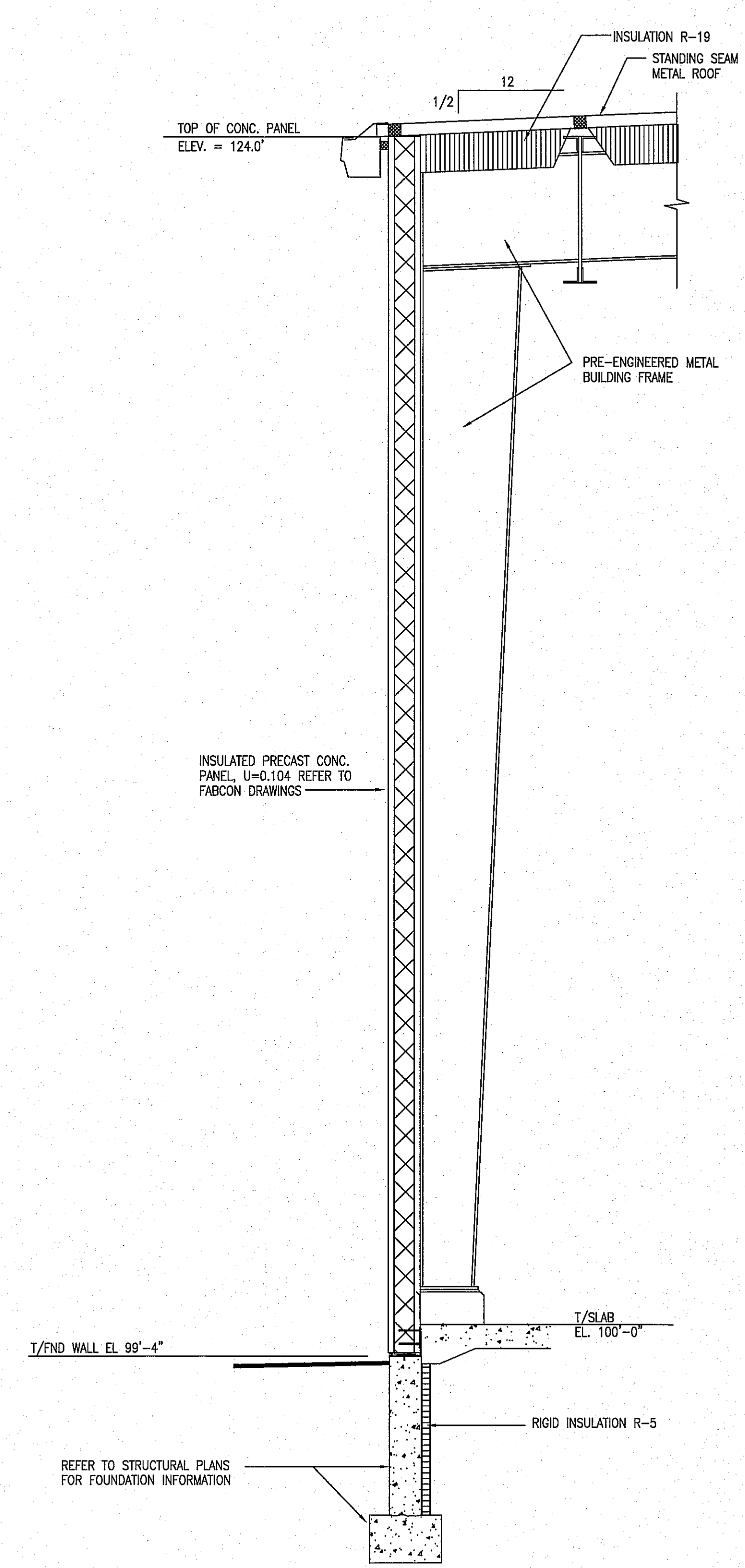
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| JOB NUMBER:  | 13002      |
| DESIGNED BY: | DN         |
| DRAWN BY:    | MW         |
| CHECKED BY:  | DN         |
| DATE:        | 07.22.13   |
| SHEET NO.:   | <b>A-4</b> |



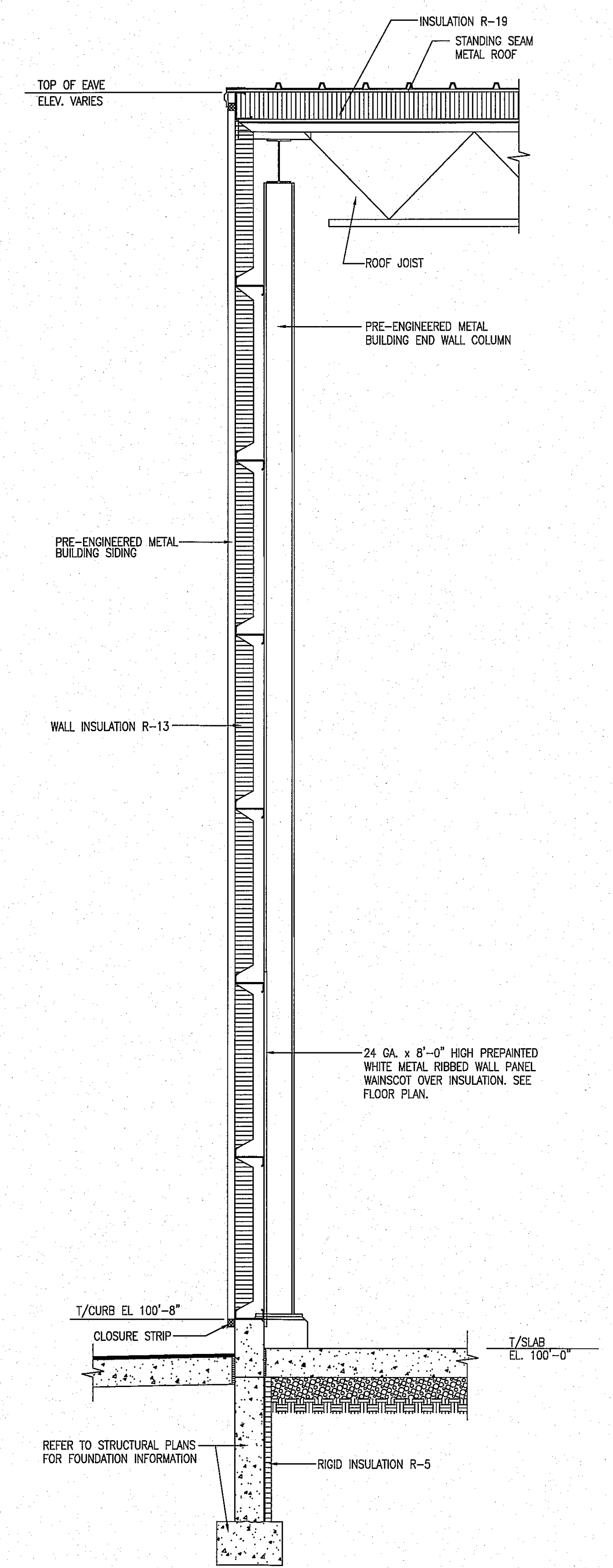
4 WALL SECTION @ CONC PANEL  
A-4.1 1/2" = 1'-0"



3 WALL SECTION  
A-4.1 1/2" = 1'-0"



2 WALL SECTION  
A-4.1 1/2" = 1'-0"



1 WALL SECTION  
A-4.1 1/2" = 1'-0"

RECORD DRAWING  
02.20.15

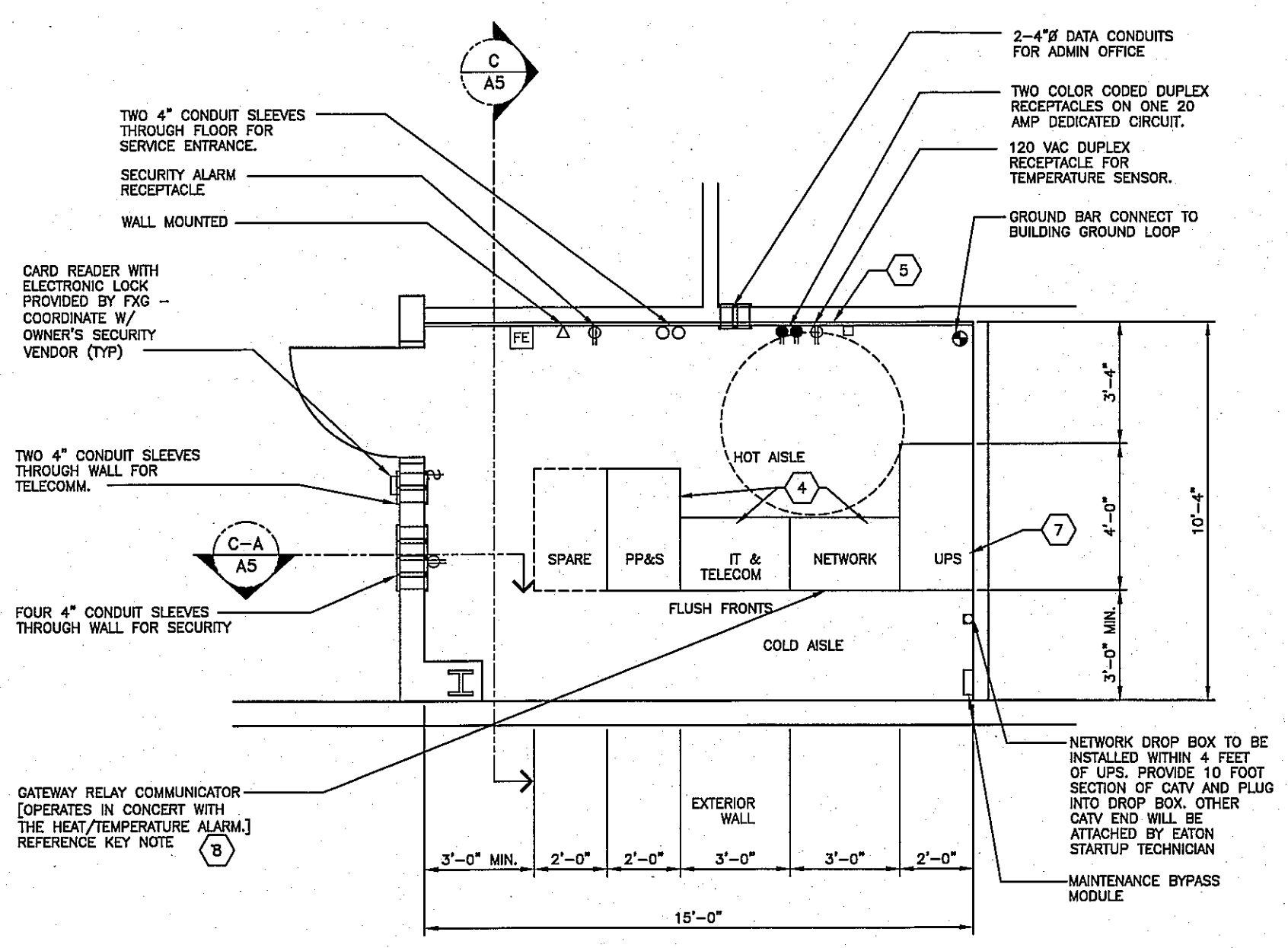
| NO. | REVISION | DATE |
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SHEET TITLE:  
BUILDING WALL  
SECTIONS

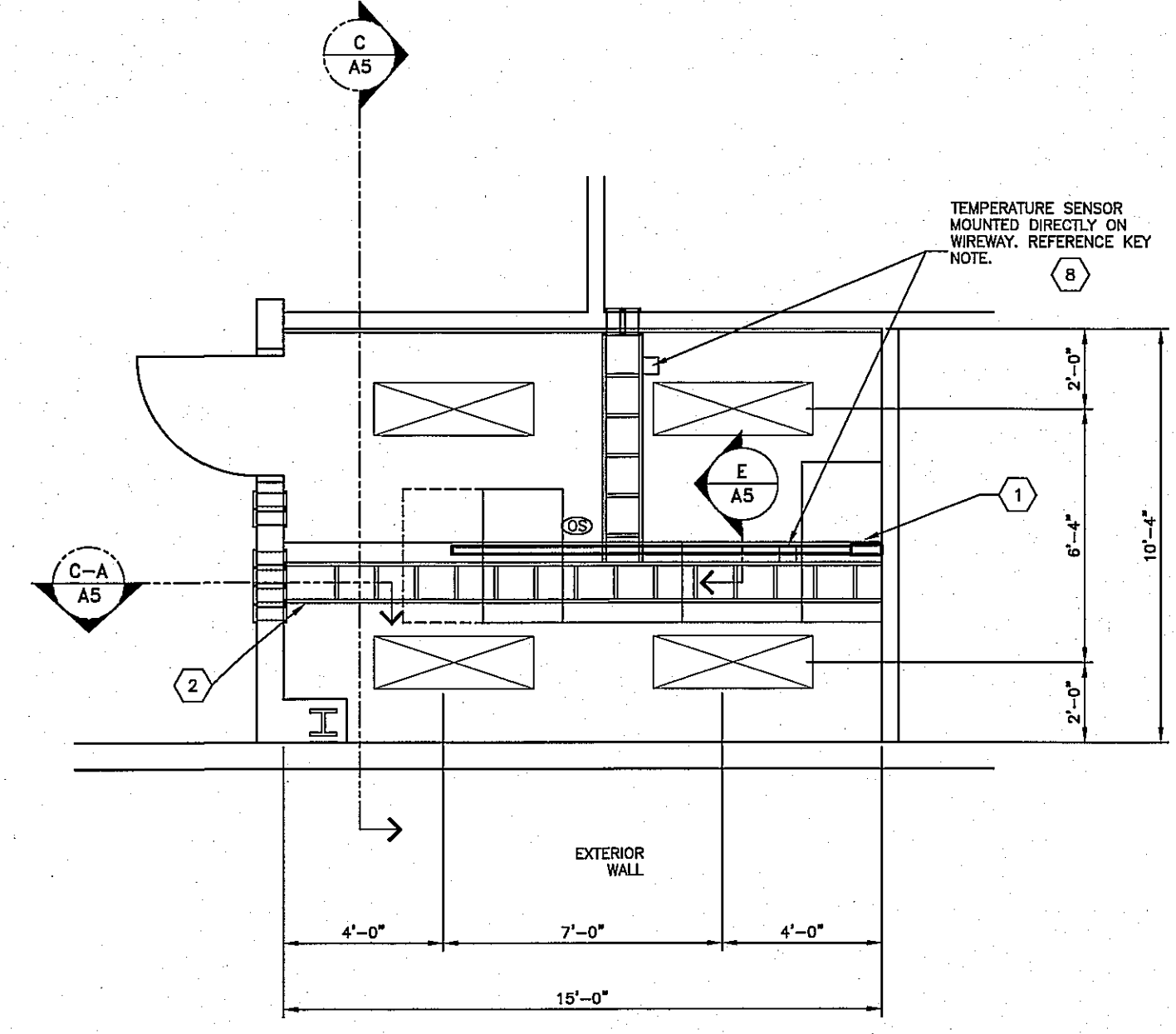
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| CHECKED BY:  | DN       |
| DATE:        | 07.22.13 |
| SHEET NO.:   |          |

A-4.1

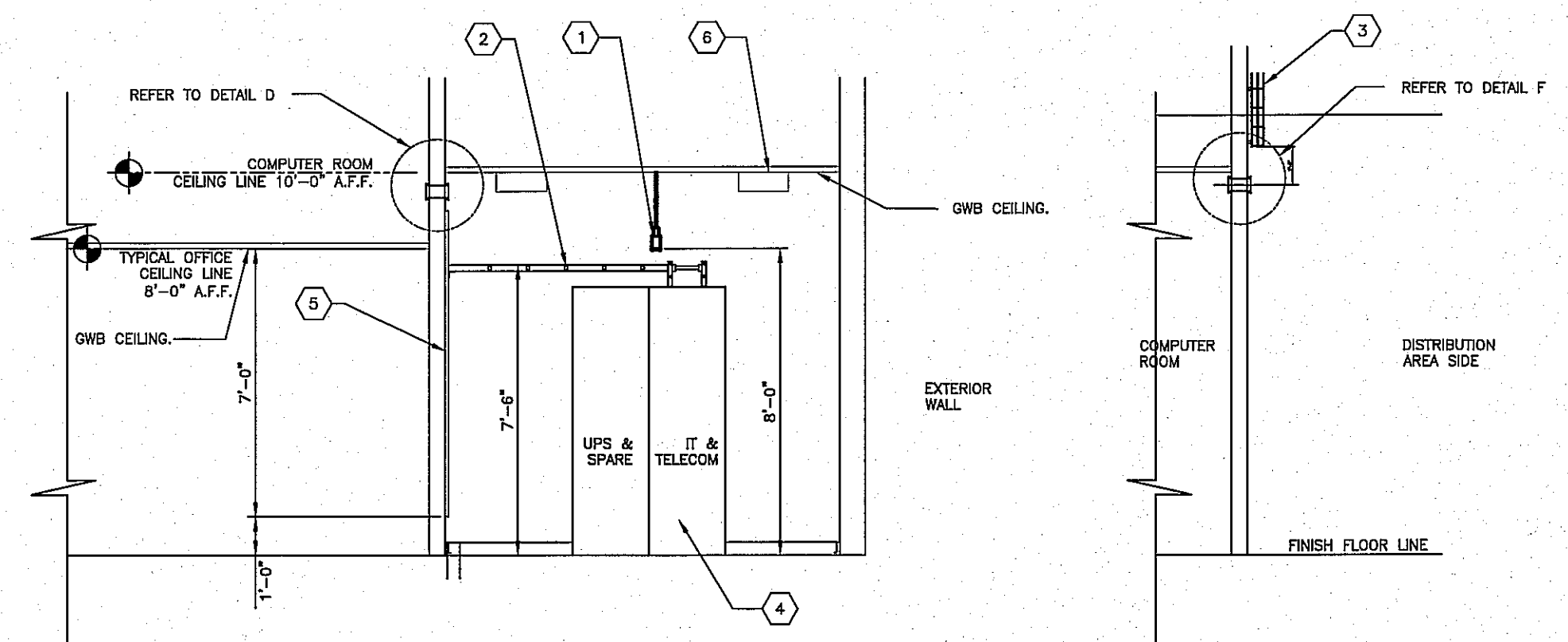
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| DATE:         |               |
| NO. REVISION: |               |
| SHEET TITLE:  | COMPUTER ROOM |
| JOB NUMBER:   | 13002         |
| DESIGNED BY:  | DN            |
| DRAWN BY:     | MW            |
| CHECKED BY:   | DN            |
| DATE:         | 07.22.13      |
| SHEET NO.:    |               |



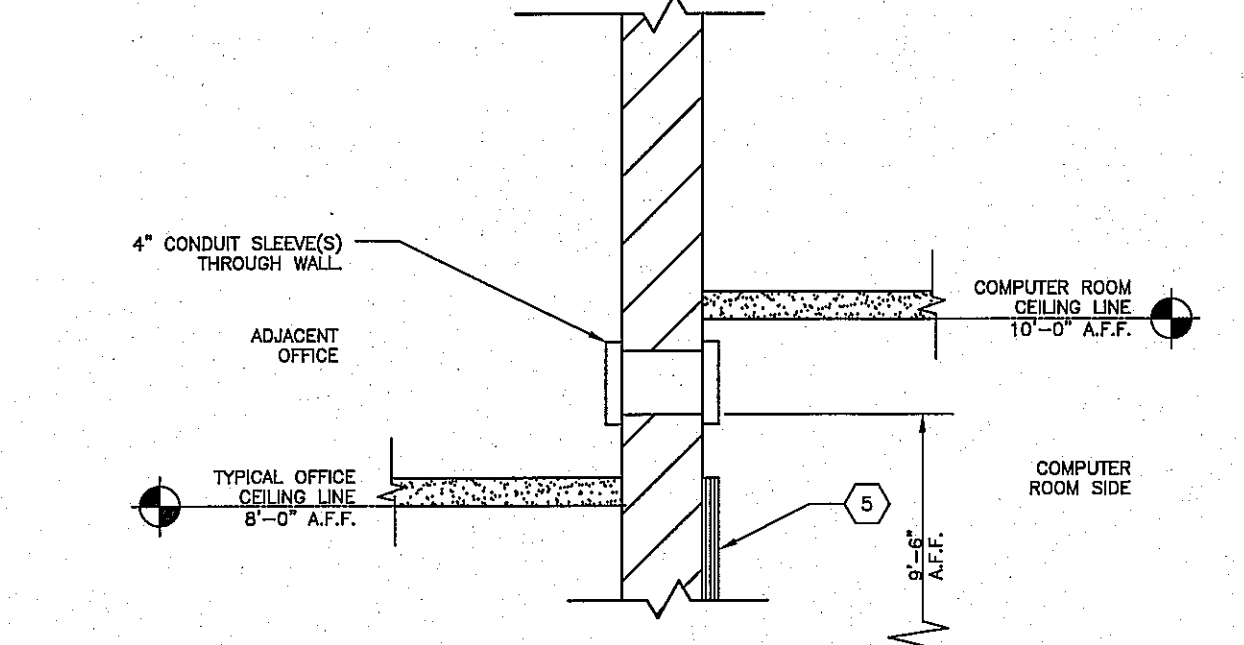
**A FLOOR PLAN - MANUAL STATION 25 TO 96 VAN FACILITIES**  
 SCALE: 1/4"=1'-0"  
 FLOOR SPACE = 155 SF  
 (FOR REFERENCE ONLY)  
 (REFER TO OFFICE PLAN FOR ACTUAL DOOR LOCATION)



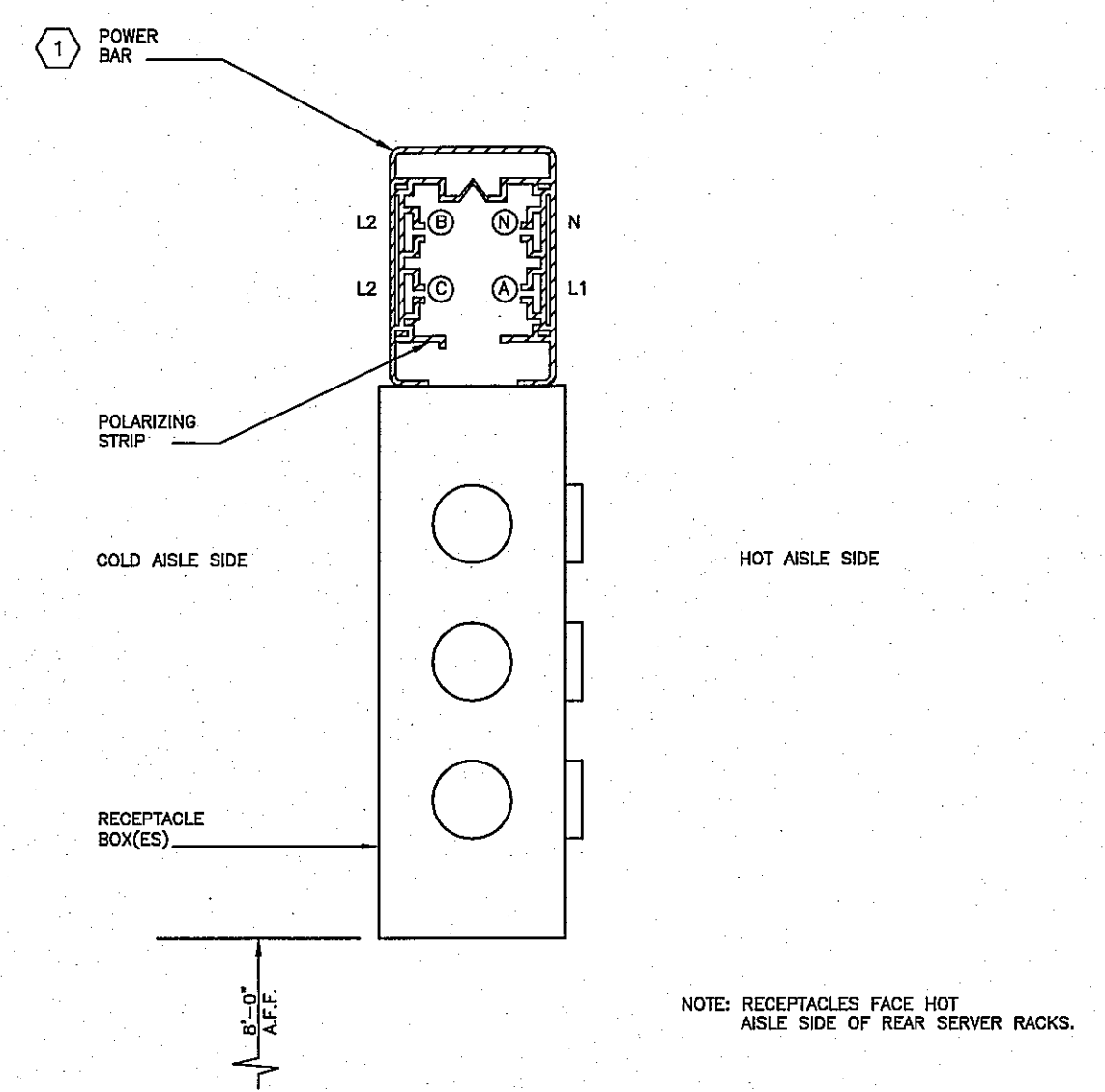
**B REFLECTED CEILING PLAN**  
 SCALE: 1/4"=1'-0"  
 (FOR REFERENCE ONLY)



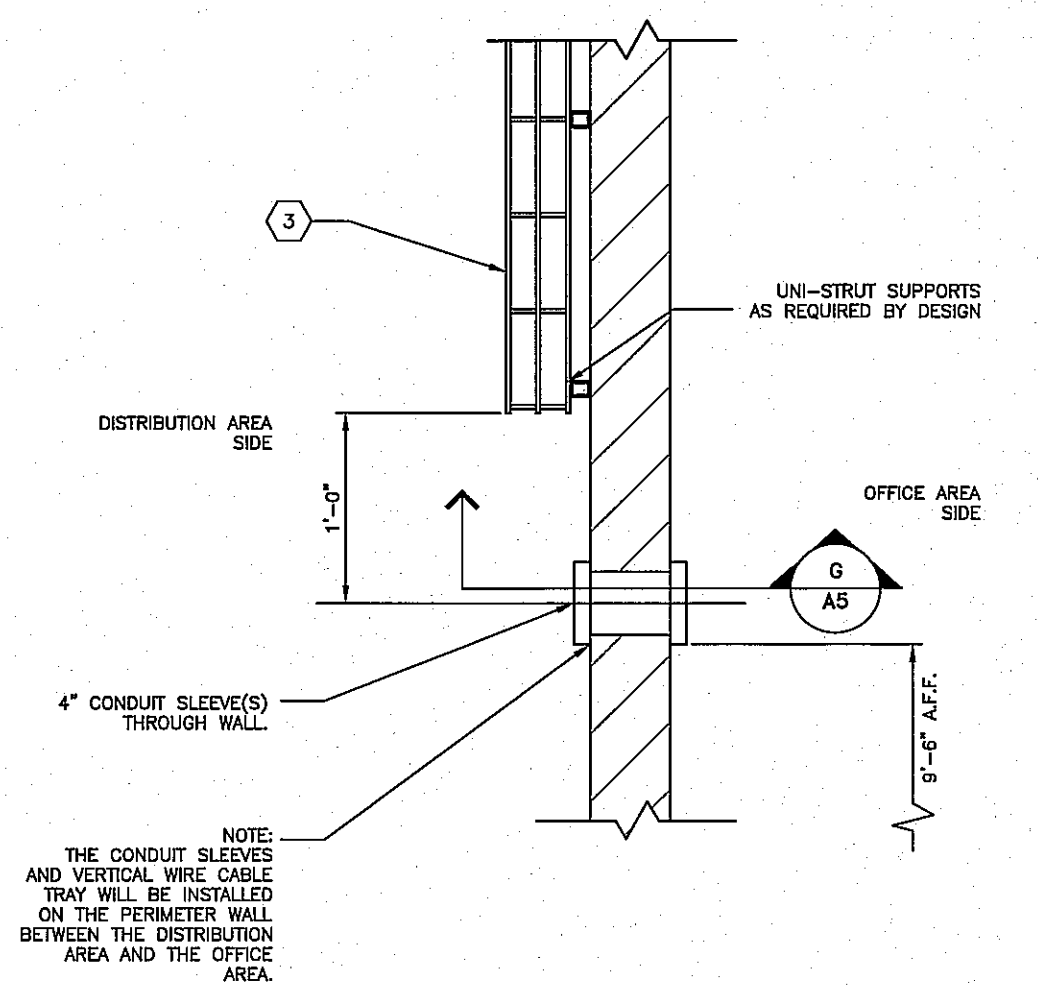
**C SECTION** SCALE: 1/4"=1'-0"  
**C-A SECTION** SCALE: 1/4"=1'-0"



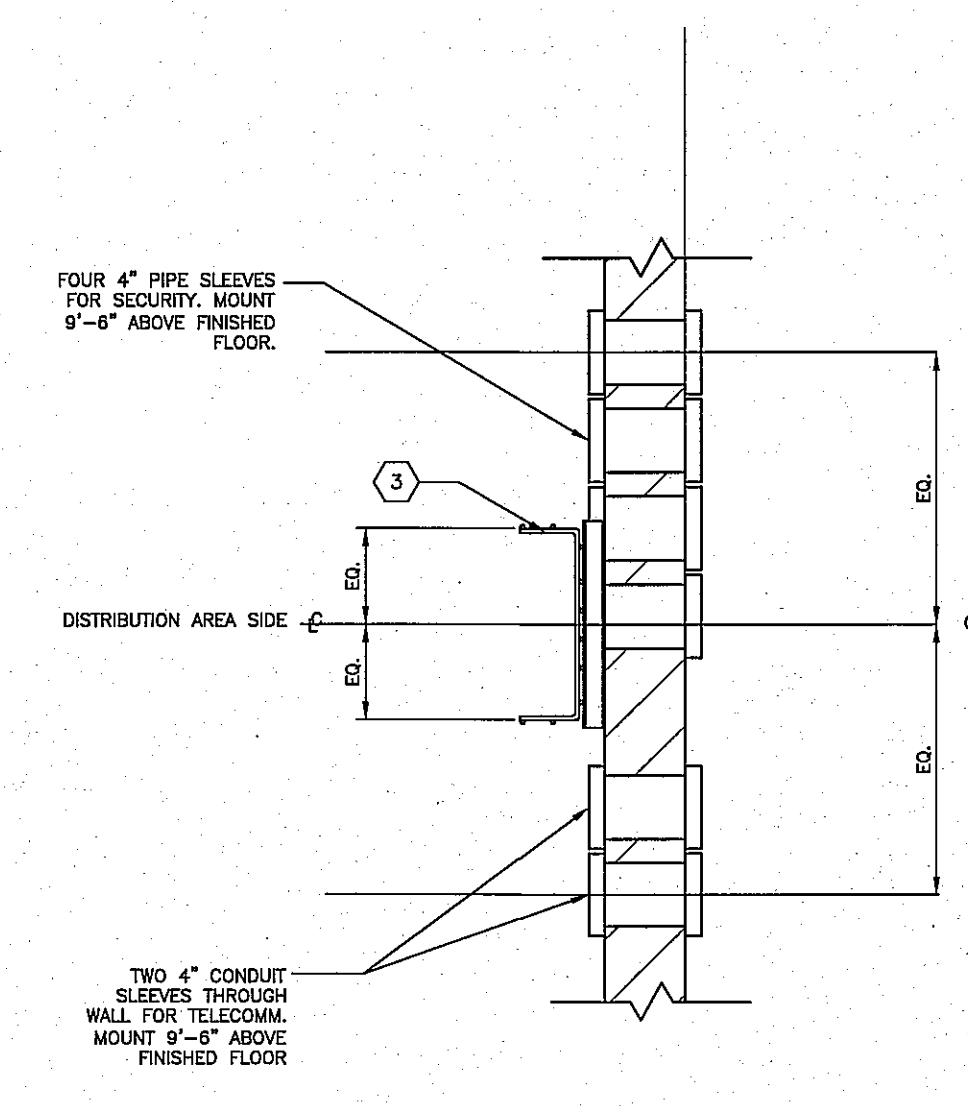
**D DETAIL AT COMPUTER ROOM WALL/ OFFICE WALL**  
 SCALE: 1"=1'-0"



**E POWER SUPPLY BAR SECTION TYP.**  
 SCALE: 6"=1'-0"



**F DETAIL AT DISTRIBUTION CENTER/ OFFICE WALL--(Reversed)**  
 SCALE: 1"=1'-0"



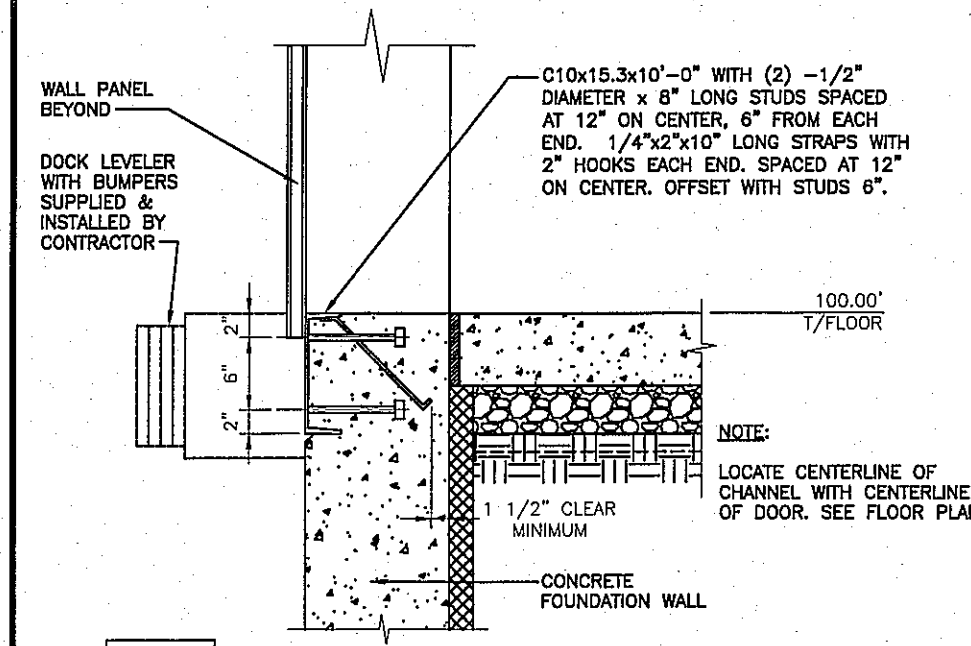
**G SECTION**  
 SCALE: 1"=1'-0"

- KEY NOTES:**
- PART NUMBER: PW6KVA - SE - SLW 2XS - GPP - FXG  
 POWERWARE 6 KVA SINGLE PHASE UPS UNIT.  
 PART NUMBER INCLUDES THE FOLLOWING COMPONENTS:  
 MAINTENANCE BYPASS MODULE: MBB TYPE, PART NUMBER SP12MBB1A.  
 POWERWARE PW9170 UPS, 6 KVA, 208-270V, 208-240 V, OUTPUT.  
 STARLINE BUSWAY, TWO SECTIONS AT 6'-0" EACH.  
 3-DUPLEX 6-20 RECEPTACLES (2 SPARES) - DO NOT USE BLUE PHASE.  
 2-L6-30 RECEPTACLES - DO NOT USE BLUE PHASE.  
 END CAPS, END POWER FEED, MOUNTING BOLTS, SNMP/WEB ADAPTER & ENVIRONMENTAL MONITOR POWERWARE AND ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.  
 START UP SERVICES AND WARRANTY.  
 APPROVED SUPPLIER:  
 R.M. STOOFF AND ASSOCIATES  
 CONTACT: JAMES STOOFF, 412-367-9006  
 FURNISHED AND INSTALLED BY THE LESSOR/LESSOR'S AGENT.
  - LADDER RACKS, 12" WIDTH, BY DAMAC PRODUCTS, INC. MANUFACTURER'S STANDARD BLACK FINISH. LENGTHS AS REQUIRED BY DESIGN. FURNISHED AND INSTALLED BY FXG.
  - 4" DEEP X 12" WIDE VERTICAL WIRE CABLE TRAY. PART NUMBER FT4X12X10 BY COOPER B-LINE OR FXG APPROVED EQUAL.  
 SUPPORT VERTICAL WIRE CABLE TRAY WITH UNI-STRUT MEMBERS AS REQUIRED BY DESIGN.  
 VERTICAL WIRE CABLE TRAY INSTALLATION SHALL BEGIN AT 12 INCHES ABOVE THE 4" CONDUIT SLEEVES AND SHALL BE INSTALLED VERTICALLY UP TO, AND ATTACHED TO, THE BUILDING ROOF SUPPORT STEEL.
  - RACKS AND SERVERS FURNISHED AND INSTALLED BY FXG.
  - ALL PLYWOOD BACKBOARDS SHALL BE 3/4"x48"x96" FIRE RESISTANT 4/C RATED PLYWOOD MOUNTED 1'-0" AFF. MOUNT WITH "A" SIDE FACING ROOM. PAINT BOTH SIDES AND ALL EDGES OF PLYWOOD WITH A MINIMUM OF 2 COATS APPLIED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS FOR PAINT COLOR. PAINTING SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF ANY COMMUNICATIONS HARDWARE OR EQUIPMENT. COVER THE LENGTH OF WALL SHOWN. MOUNT 8" DIMENSION VERTICALLY (TYP). FURNISHED AND INSTALLED BY LESSOR/LESSOR'S AGENT.
  - CEILING MOUNTED LIGHT FIXTURE, REFER TO SPECIFICATIONS.
  - UPS START-UP:  
 1. LESSOR/LESSOR'S AGENT INSTALLS UPS MAINTENANCE INSTRUCTIONS.  
 2. LESSOR/LESSOR'S AGENT COMPLETES EATON'S UPS AND PDU PRE-STARTUP CHECKLIST. CHECKLIST IS 2 PAGES TOTAL.  
 3. FXG WILL SUPPLY NETWORK ADDRESSES TO LESSOR/LESSOR'S AGENT. (IP, GATEWAY, AND SUBNET)  
 4. LESSOR/LESSOR'S AGENT FORWARDS COMPLETED "UPS AND PDU PRE-STARTUP CHECKLIST" AND NETWORK ADDRESSES TO RM STOOFF. SEE RM STOOFF'S CONTACT INFO IN NOTE 1.  
 5. RM STOOFF SENDS EATON STARTUP TECHNICIAN TO SITE FOR UPS COMMISSIONING.  
 6. EATON STARTUP TECHNICIAN APPLIES POWER TO UPS, SETS PARAMETERS, INSTALLS NETWORK IP ADDRESSES, AND CONNECTS UPS TO FXG NETWORK.  
 7. LESSOR/LESSOR'S AGENT NOTIFIES FXG UPS HAS BEEN COMMISSIONED.

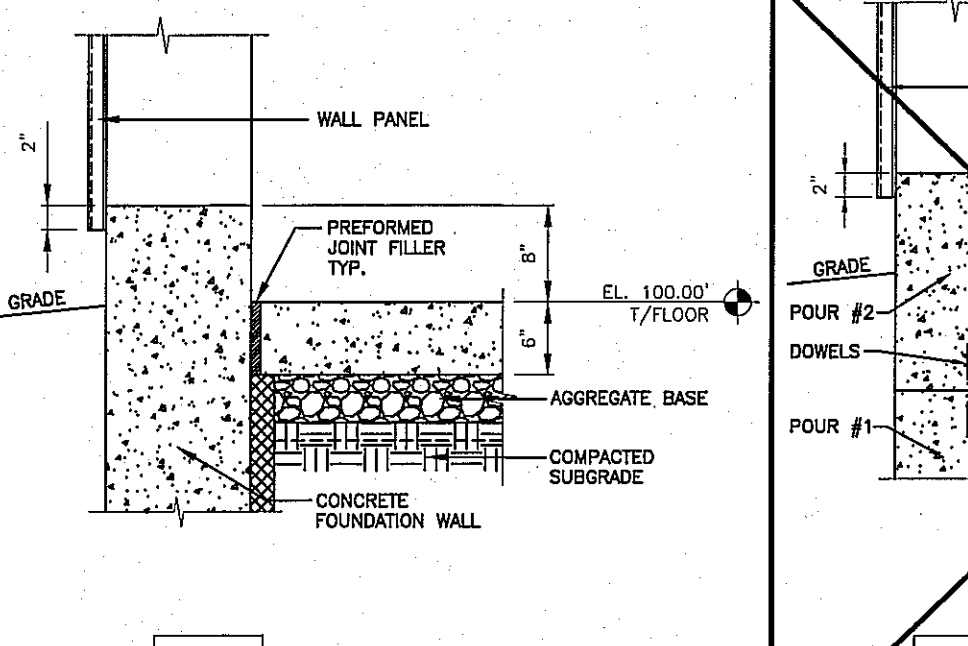
| LEGEND:  | GENERAL NOTES:   |
|--|--|
| △ LOCATION OF FLUSH SINGLE GAND TELEPHONE OUTLET WITH 3/4" CONDUIT W/PULL WIRE TO ACCESSIBLE CEILING SPACE. TERMINATE CONDUITS WITH PLASTIC BUSINGS. INSTALL COVER PLATES AT ALL LOCATIONS. (TYP). | 1. CONNECT RECEPTACLE CIRCUITS FOR CONVENIENCE OUTLETS TO NEAREST AVAILABLE NORMAL BUILDING CIRCUIT.   |
| ▲ CONDUIT W/PULL WIRE FROM TELEPHONE BOARD TO OFFICE CEILING SPACE. SIZE AS NOTED.   | 2. NO PIPING, DUCTWORK, WIRING, ETC. TO BE ROUTED THROUGH THE COMPUTER ROOM.   |
| □ JUNCTION BOX W/20 AMP DEDICATED CIRCUIT TO A LOCKABLE BREAKER. LABEL BOX W/BREAKER AND PANEL.  | 3. ROOM CONSTRUCTION, AS REQUIRED BY CODE.   |
| ⊕ SPECIAL LOCATION DUPLEX RECEPTACLES, OTHERS NOT SHOWN ON PLAN.   | A. 36" DOOR TO BE PROVIDED WITH SECURITY LOCK. REFER TO DOOR SCHEDULE FOR MORE INFORMATION.  |
| ● DUPLEX RECEPTACLE ON DEDICATED CIRCUIT.  | B. PROVIDE INSULATION IN WALLS AND CEILING TO MEET ASHRAE 90.1-2004 AS A MINIMUM.  |
| ☑ FIRE EXTINGUISHER WITH SURFACE MOUNTED BRACKET.  | C. PROVIDE ROOM WITH VAPOR RETARDER.   |
| ⌘ WALL LIGHT SWITCH.   | 4. COMBINATION SMOKE/HEAT DETECTORS AS REQUIRED BY CODE. FURNISHED AND INSTALLED BY LESSOR/LESSOR'S AGENT.   |
| ⊙ LINE VOLTAGE PASSIVE INFRARED OCCUPANCY SENSOR FOR ROOM LIGHTING CONTROL. WATSTOPPER # CI-355 OR EQUAL.  | 5. FIRE SUPPRESSION SYSTEM SHALL BE PROVIDED IN THE COMPUTER ROOM AS REQUIRED BY CODE. REFER TO FXG SPECIFICATION DIVISION 15 MECHANICAL, SECTION 15.1 PLUMBING. |
| □ NETWORK DROP BOX   | 6. REFER TO THE SPECIFICATIONS FOR THE DESIGN CRITERIA FOR BTU RATINGS AND ALTERNATE HVAC UNIT LOCATION.   |

RECORD DRAWING  
 02.20.15

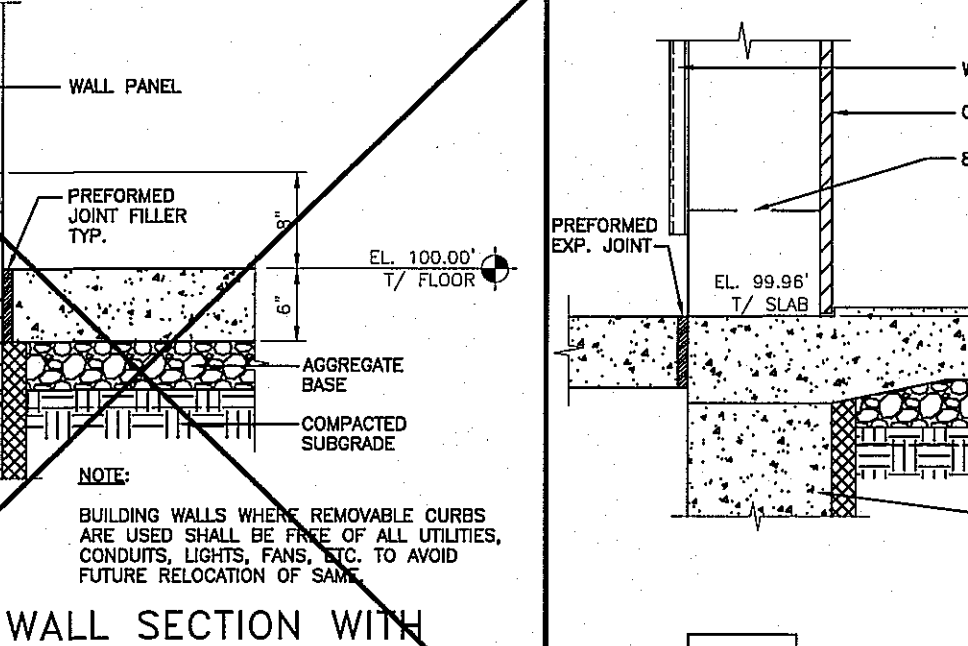




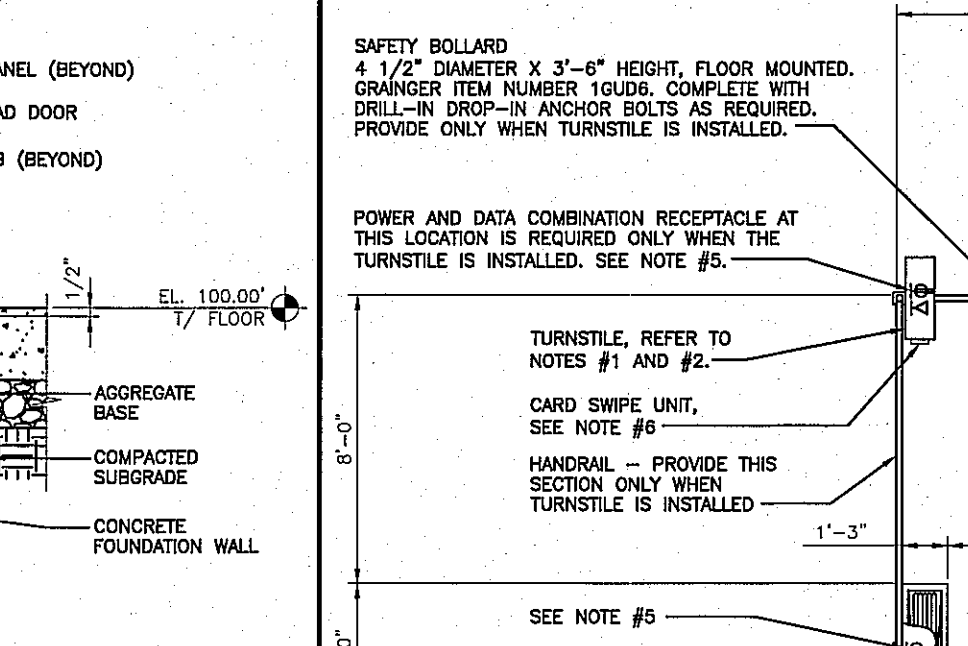
**1 DOCK EDGE CHANNEL DETAIL**  
SCALE: 3/4" = 1'-0"



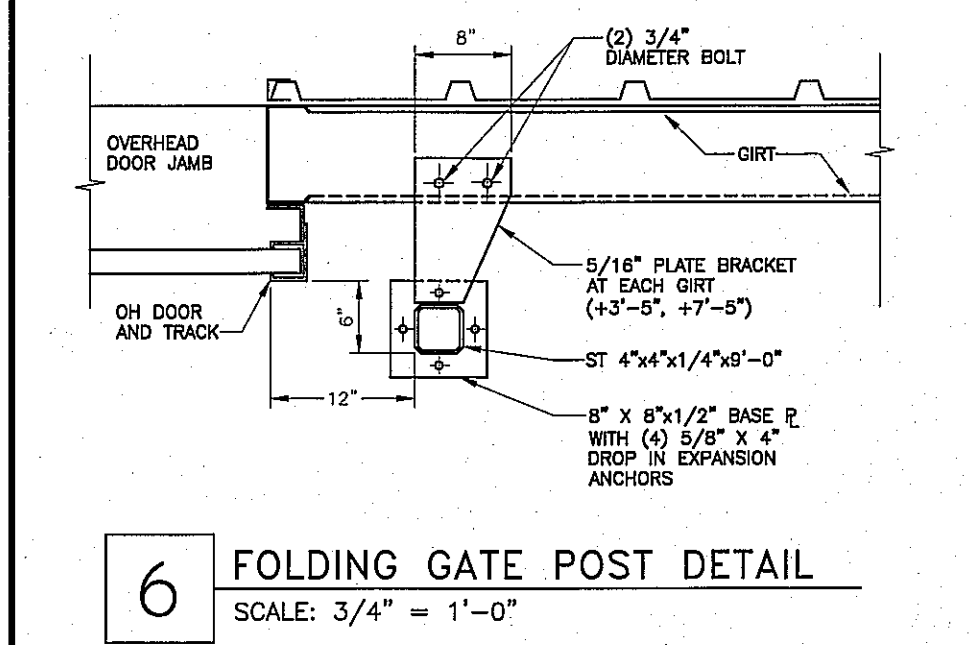
**2 WALL SECTION**  
SCALE: 3/4" = 1'-0"



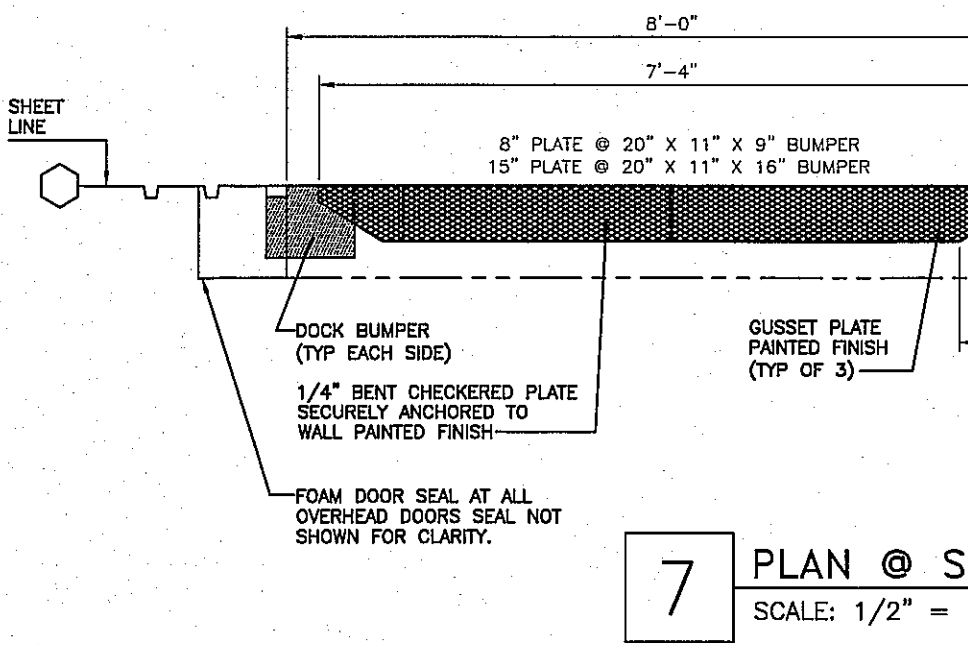
**3 WALL SECTION WITH REMOVABLE CURB**  
SCALE: 3/4" = 1'-0"



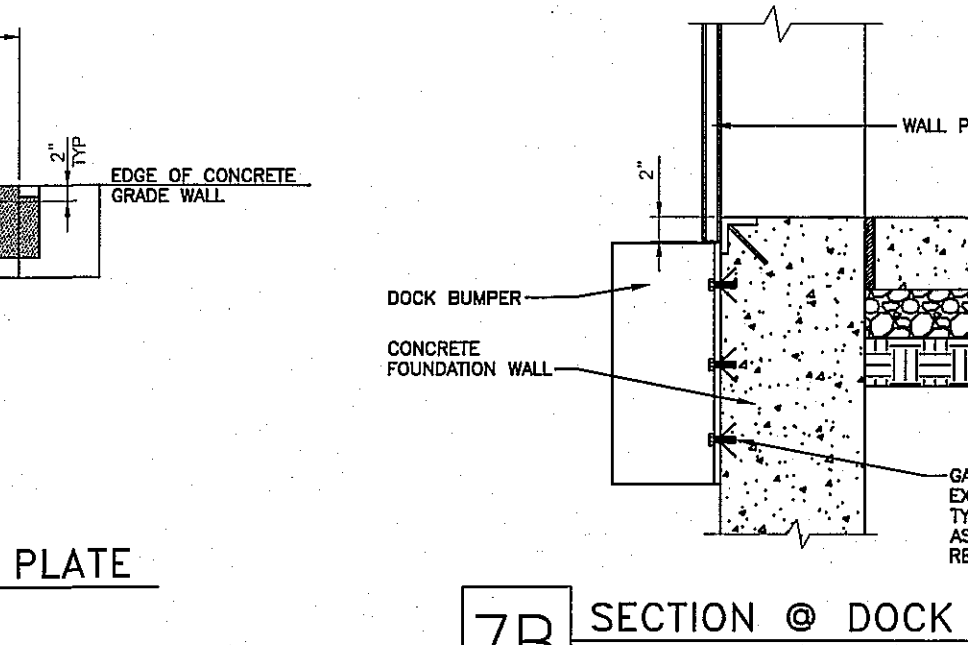
**4 WALL SECTION AT DRIVE-IN DOOR**  
SCALE: 3/4" = 1'-0"



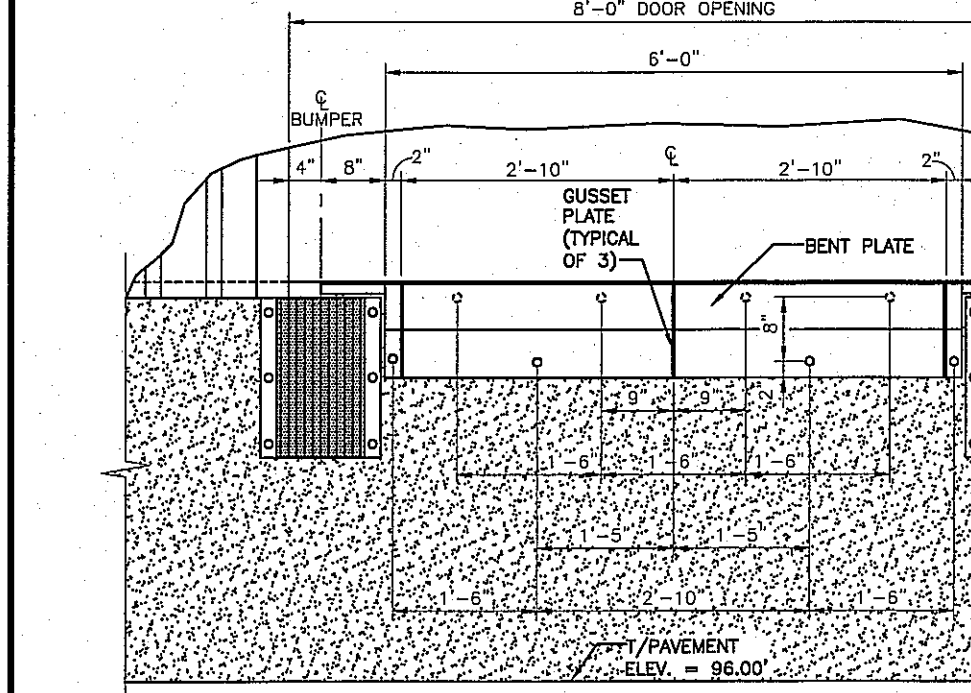
**6 FOLDING GATE POST DETAIL**  
SCALE: 3/4" = 1'-0"



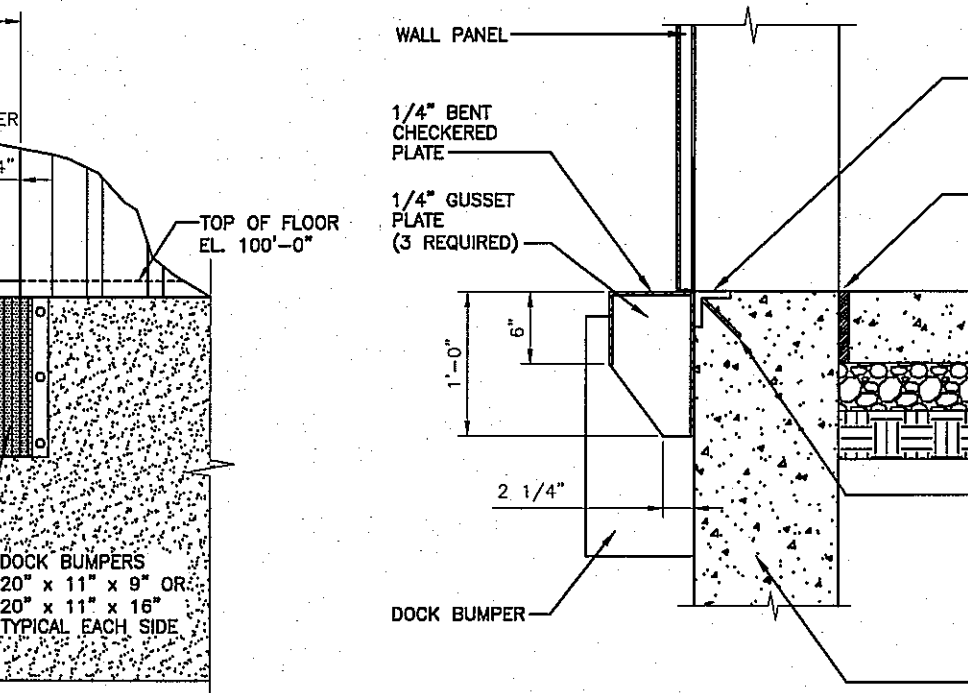
**7 PLAN @ SILL PLATE**  
SCALE: 1/2" = 1'-0"



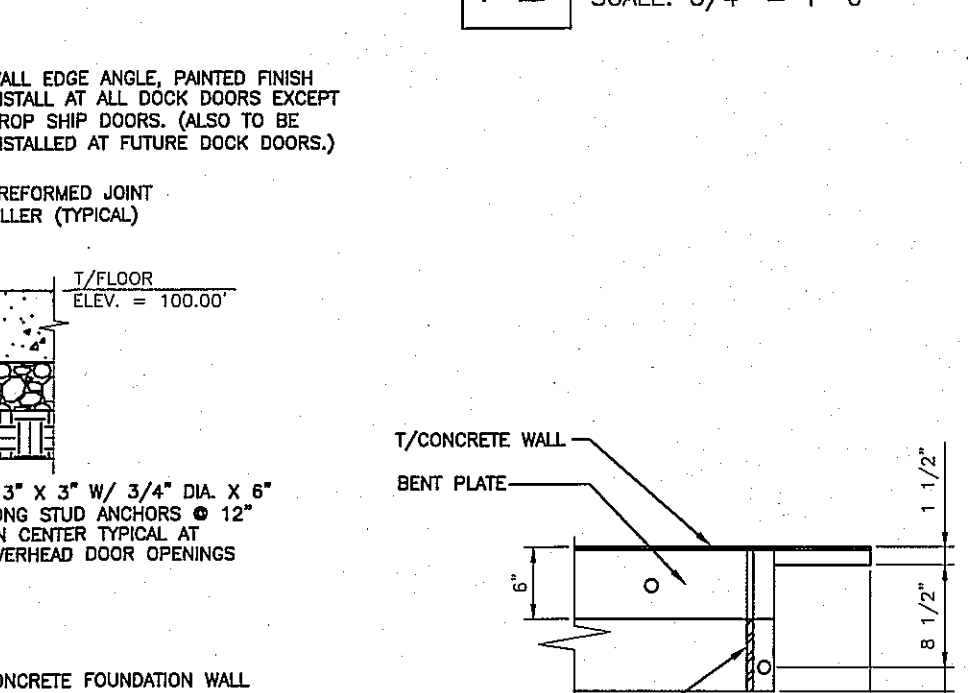
**7B SECTION @ DOCK BUMPERS**  
SCALE: 3/4" = 1'-0"



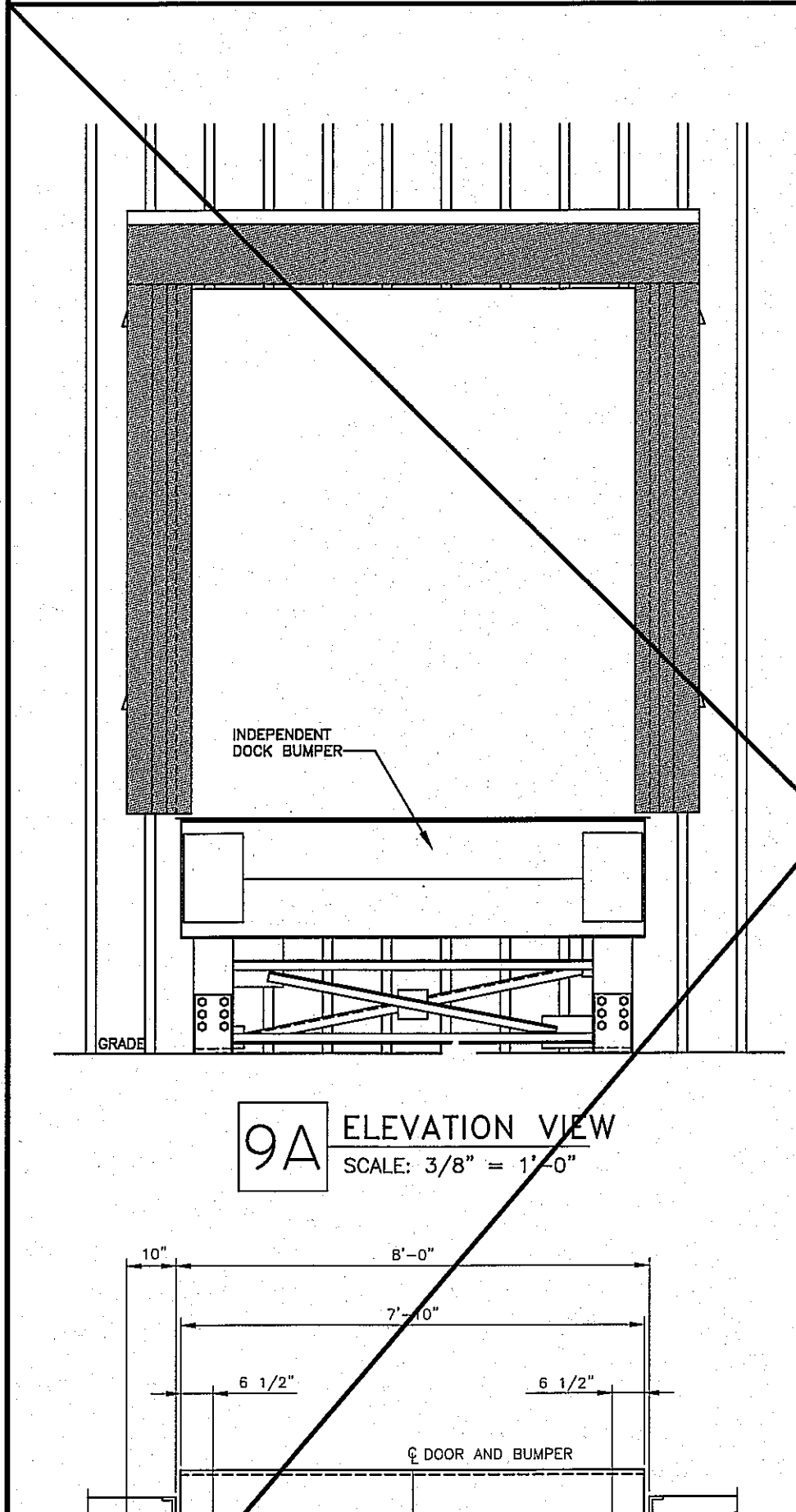
**7A ELEVATION @ SILL PLATE**  
SCALE: 1/2" = 1'-0"



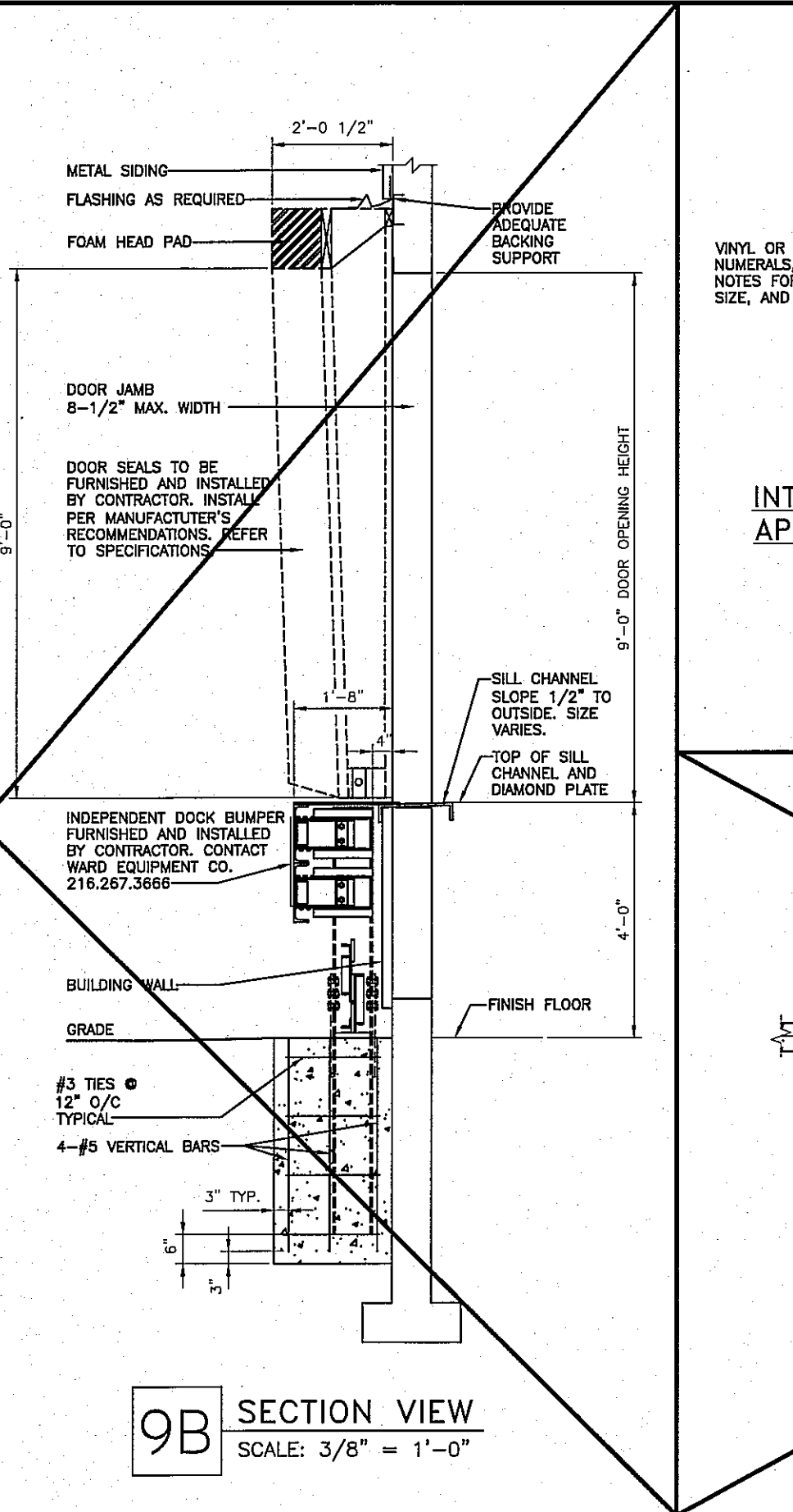
**7C SECTION @ SILL PLATE**  
SCALE: 3/4" = 1'-0"



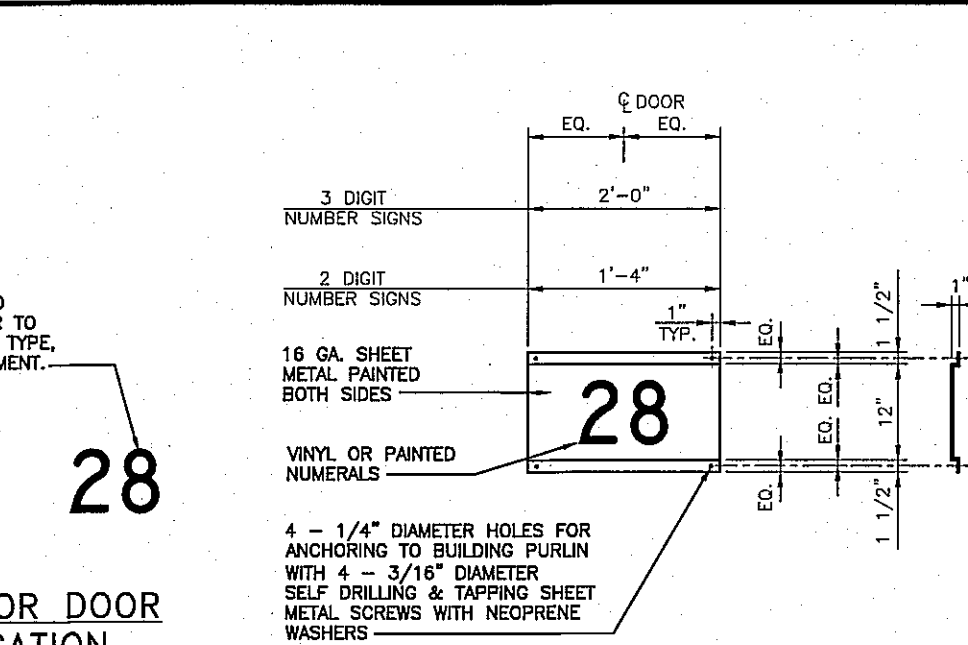
**7D ENLARGED DETAIL @ SILL PLATE**  
SCALE: 3/4" = 1'-0"



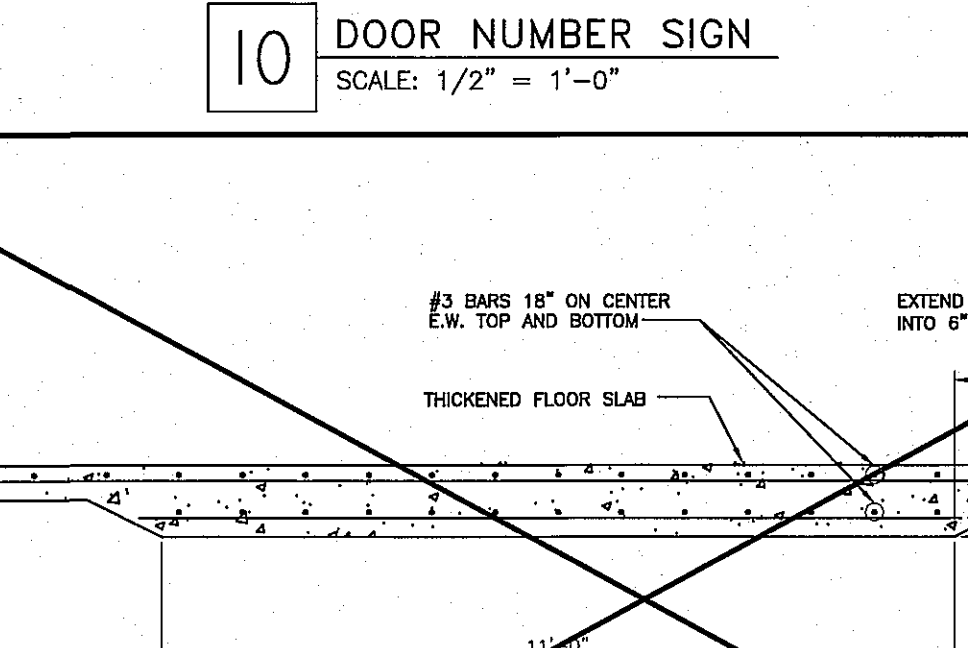
**9A ELEVATION VIEW**  
SCALE: 3/8" = 1'-0"



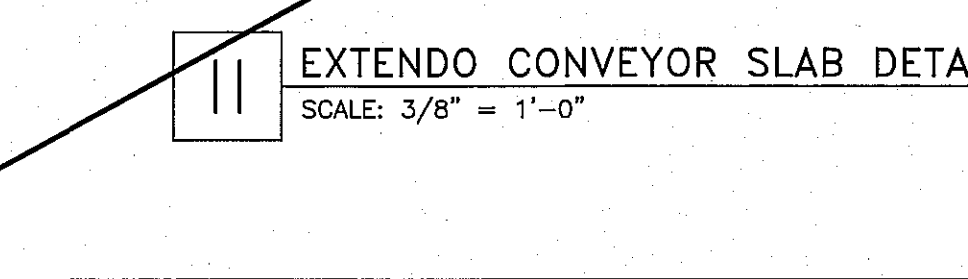
**9B SECTION VIEW**  
SCALE: 3/8" = 1'-0"



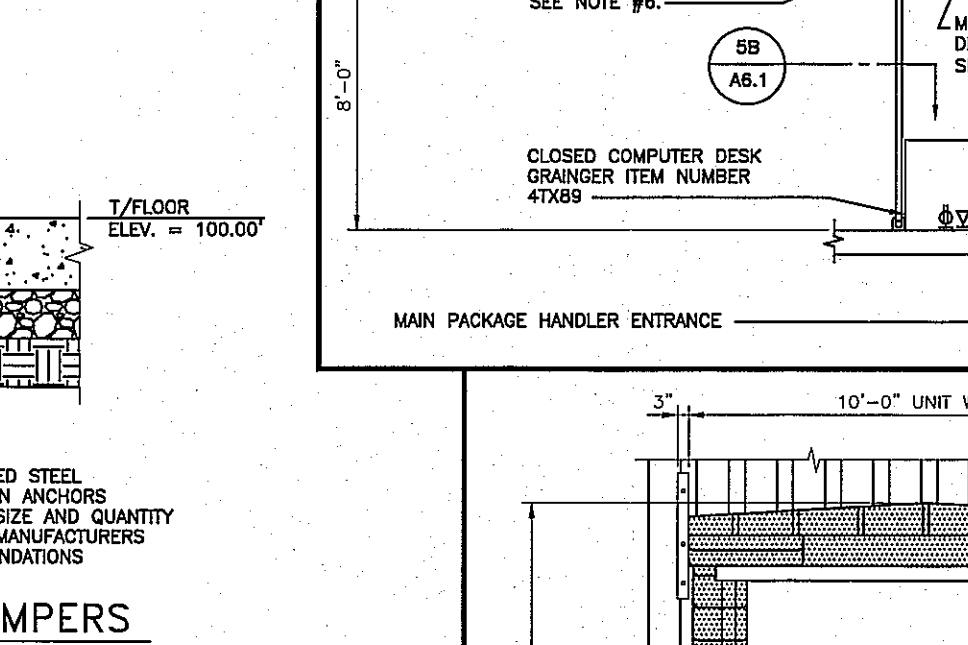
**28 INTERIOR DOOR APPLICATION**



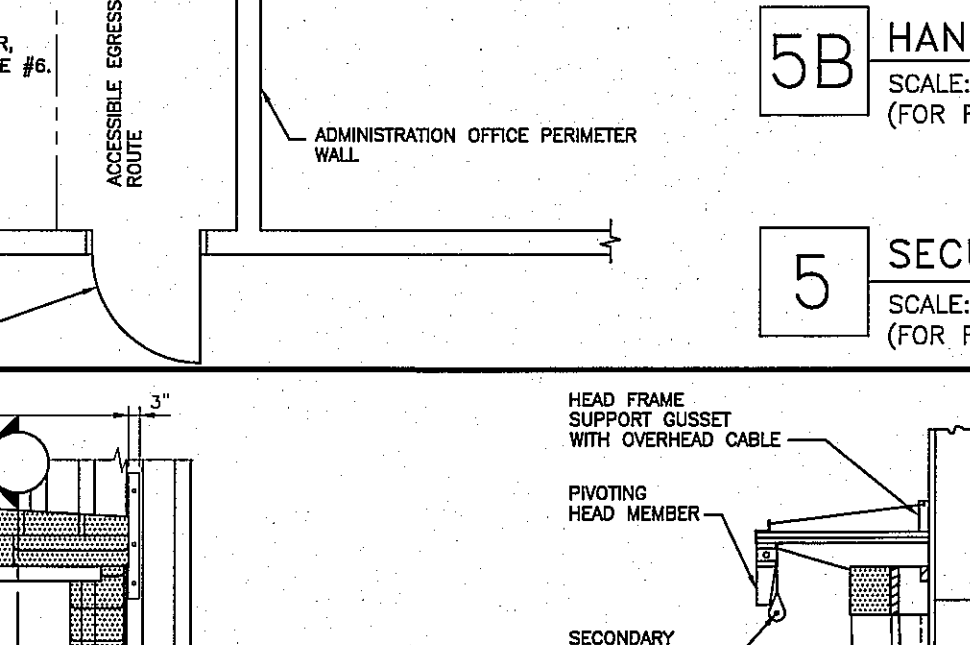
**10 DOOR NUMBER SIGN**  
SCALE: 1/2" = 1'-0"



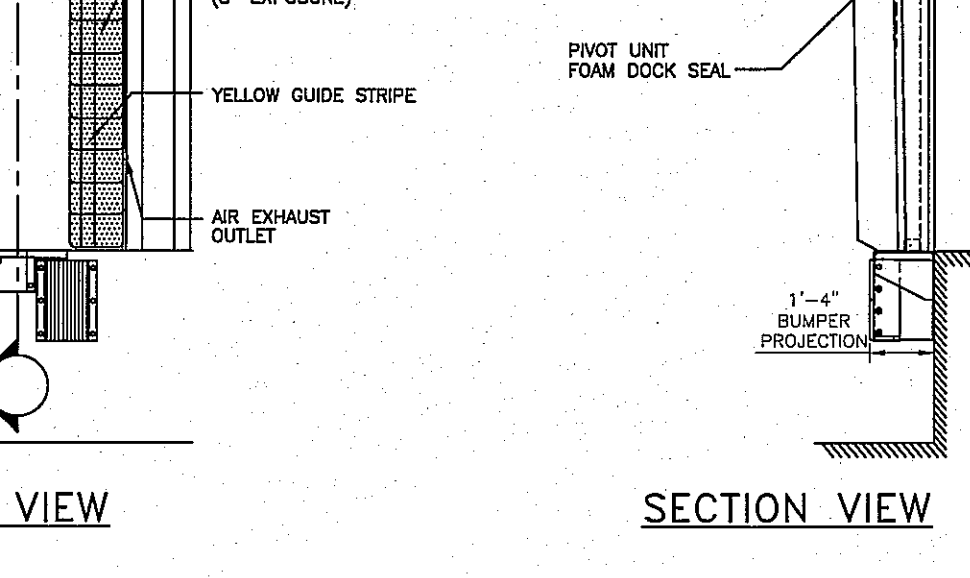
**11 EXTENDING CONVEYOR SLAB DETAIL**  
SCALE: 3/8" = 1'-0"



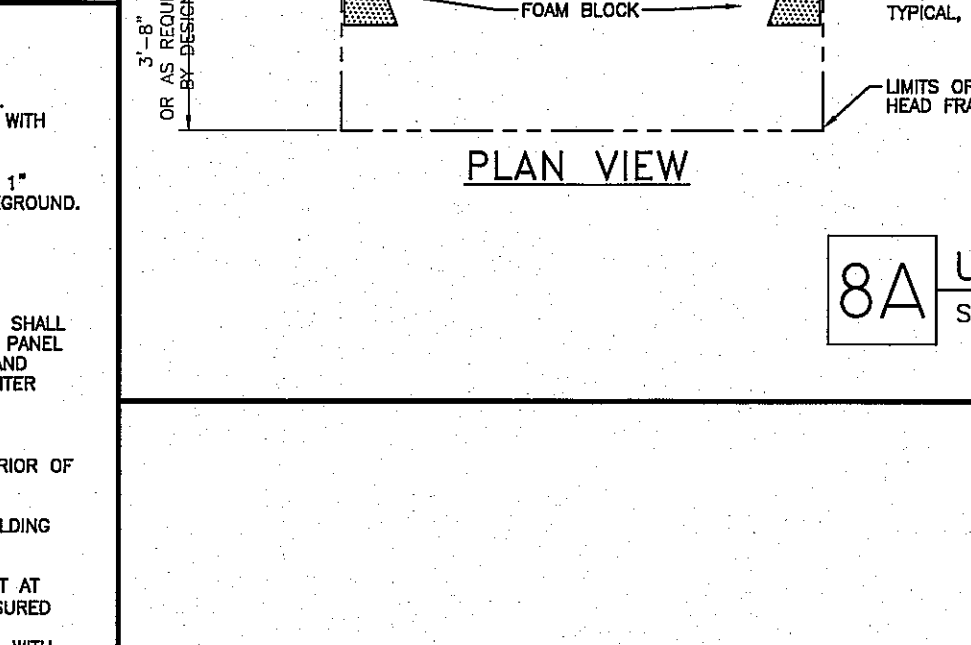
**5 SECURITY STATION**  
SCALE: 3/16" = 1'-0" (FOR REFERENCE ONLY)



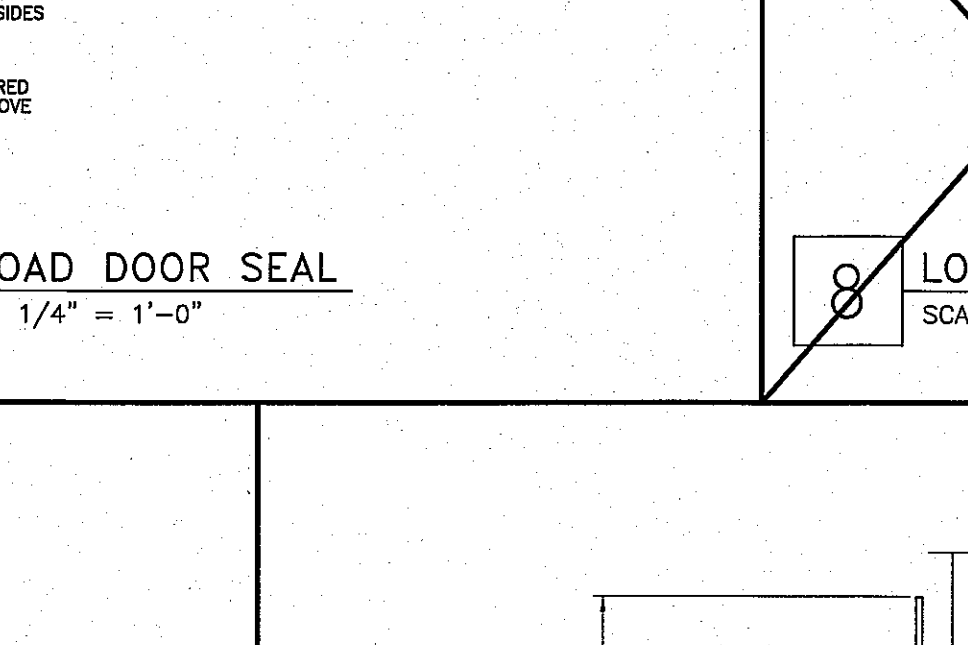
**5A BELT SECTION**  
SCALE: 1/8" = 1'-0" (FOR REFERENCE ONLY)



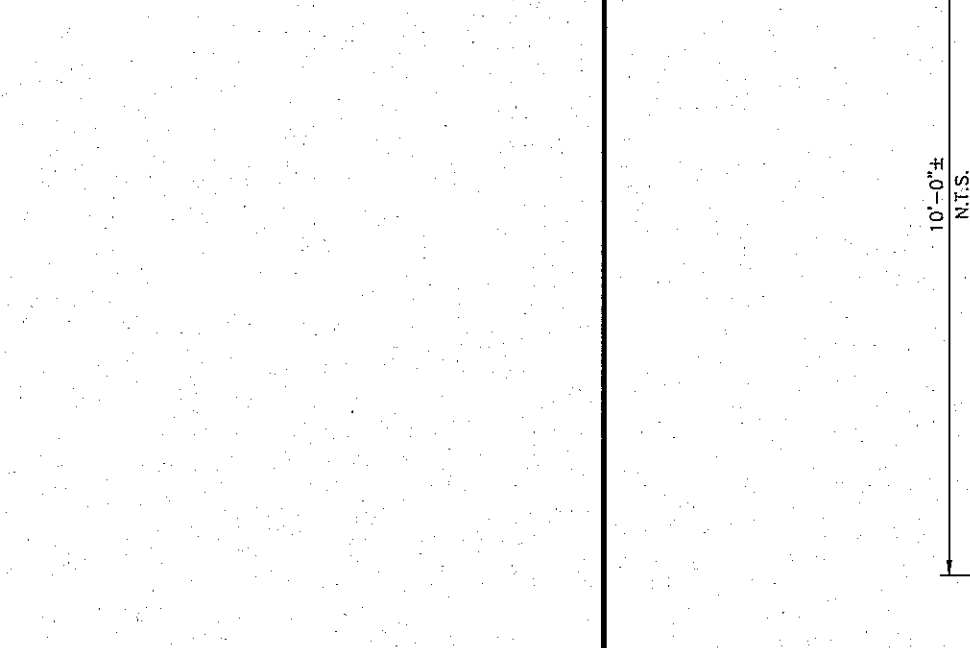
**5B HANDRAIL SECTION**  
SCALE: 1/4" = 1'-0" (FOR REFERENCE ONLY)



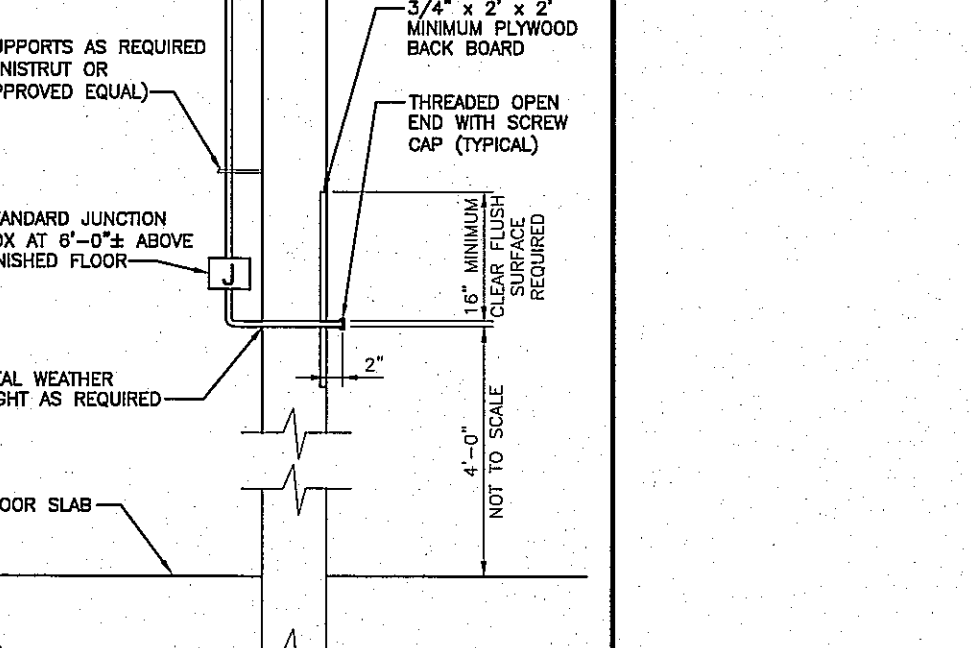
**8A UNLOAD DOOR SEAL**  
SCALE: 1/4" = 1'-0"



**8 LOAD DOOR SEAL**  
SCALE: 1/4" = 1'-0"



**12 NOT USED**  
SCALE:



**13 TMS TELEPHONE DETAIL**  
SCALE: 1/2" = 1'-0"

**NOTES:**

- TURNSTILE WILL BE INSTALLED ONLY AT THOSE FACILITIES WHERE A FULL HEIGHT PERSONNEL TURNSTILE AT THE AUTOMOBILE PARKING AREA DOES NOT EXIST.
- TURNSTILE ELECTRIFIED, FLOOR MOUNTED, ALVARADO MANUFACTURING COMPANY. MODEL NUMBER EDX-EX. TURNSTILE WITH THE FOLLOWING FEATURES: ELECTRICALLY CONTROLLED ENTRY WITH FREE FLOW EGRESS. TURNSTILE, RESETTABLE, COMPUTERIZED. STATUS LIGHTS, YELLOW, RED, GREEN. PAI SAFE FEATURE (FREE ROTATION UPON LOSS OF POWER). STANDARD 110 VAC INPUT STEPPED DOWN TO LOW VOLTAGE 12 VDC. TURNSTILE INSTALLATION WILL BE COORDINATED WITH ADT SECURITY SERVICES.
- PRIMARY CONTACT: SCOTT LABLANC, MANAGER STRATEGIC ACCOUNTS OFFICE, 704-887-4440 CELL: 704-287-5219. SECONDARY CONTACT: ROBERT LOW OFFICE: 412-747-8411 CELL: 412-651-8645.
- RETRACTA-BELT DUAL LINE CROWD CONTROL POSTS, COMPLETE, MANUFACTURER'S STANDARD BLACK ABS BASE, YELLOW VERTICAL POSTS, HORIZONTAL BELT WITH BLACK AND YELLOW DIAGONAL STRIPES, PORTABLE KNOCK DOWN UNITS. MODEL NUMBERS: 321-YA-BD, 7'-6" LENGTH UNIT. 321-YA-BYD, 15'-0" LENGTH UNIT. PM112-YA-BYD, 25'-0" LENGTH UNIT.
- MANUFACTURED BY: VISIONTRON CORPORATION OR APPROVED EQUAL. CONTACT: FRANK VANACORE SALES MANAGER 1-800-585-7750.
- 1-5/8" SQUARE STEEL HAND RAIL AND POST SYSTEM, STEEL, PAINTED SAFETY YELLOW, 42" HEIGHT WITH INTERMEDIATE HORIZONTAL RAIL AT 21". BIDD SECTIONS WITHOUT THE BOARD, SYSTEM SHALL BE STANDARD SECTIONAL COMPONENTS AS MANUFACTURED BY VESTIL MANUFACTURING CORPORATION, FURNISH AND INSTALL WITH ALL COMPONENTS SUCH AS, BUT NOT LIMITED TO, MANUFACTURER'S STANDARD CORNER PIECES, BASE PLATES, AND ANCHOR BOLTS AS REQUIRED FOR A COMPLETE INSTALLATION. SYSTEM CONSISTS OF THE FOLLOWING SECTION OPTIONS:
  - SQ-48 = 4'-0" LONG
  - SQ-60 = 6'-0" LONG
  - SQ-72 = 8'-0" LONG
  - SQ-84 = 10'-0" LONG
  - SQ-96 = 12'-0" LONG
  - SQ-108 = 14'-0" LONG
  - SQ-120 = 16'-0" LONG
- SELECT SECTIONS AS REQUIRED BY SITE SPECIFIC DESIGN REQUIREMENTS.
- APPROVED VENDOR: W.W. GRANGER, INC. www.granger.com. CONTACT: KEITH R. KEIR, FXG ACCOUNT REPRESENTATIVE keir.kr@granger.com.
- SURFACE MOUNTED POWER/DATA RECEPTACLE BOX COMBINATION AND CONDUIT/WIRING PROTECTION BY LAGRAND-WIREMOLD, INSTALL AS REQUIRED BY CODE.
- THE METAL DETECTOR, DIVESTING TABLE, AND CARD SWIPE UNIT ARE FURNISHED AND INSTALLED BY FXG/PPS.

**SECURITY STATION LEGEND**

- [Symbol] DUPLEX RECEPTACLE OUTLET WITH COVER PLATE
- [Symbol] SINGLE GANG TELEPHONE/DATA OUTLET

**RUEDEBUSCH DEVELOPMENT & CONSTRUCTION**  
DEVELOPMENT • CONSTRUCTION • BROKERAGE • CONSULTING  
4605 DOVERDALE DRIVE MADISON, WI 53704  
PHONE 608.249.2012 FAX 608.249.8032

**FedEx Ground**  
FACILITIES & MATERIAL HANDLING SYSTEMS  
1000 FedEx Drive Moon Township, PA 15108  
412-269-1000

**FED-EX GROUND**  
HANSON ROAD MADISON, WI

|               |          |
|---------------|----------|
| DATE:         |          |
| NO. REVISION: |          |
| SHEET TITLE:  | DETAILS  |
| JOB NUMBER:   | 13002    |
| DESIGNED BY:  | DN       |
| DRAWN BY:     | MW       |
| CHECKED BY:   | DN       |
| DATE:         | 07.22.13 |
| SHEET NO.:    |          |

**RECORD DRAWING**  
02.20.15

**A6.1**

**1 GROUND MAILBOX ARRANGEMENT**

**1A ELEVATION**  
SCALE: 1/2" = 1'-0"

**1B SECTION A-A**  
SCALE: 1" = 1'-0"

**2A ELEVATION**  
SCALE: 3/8" = 1'-0"

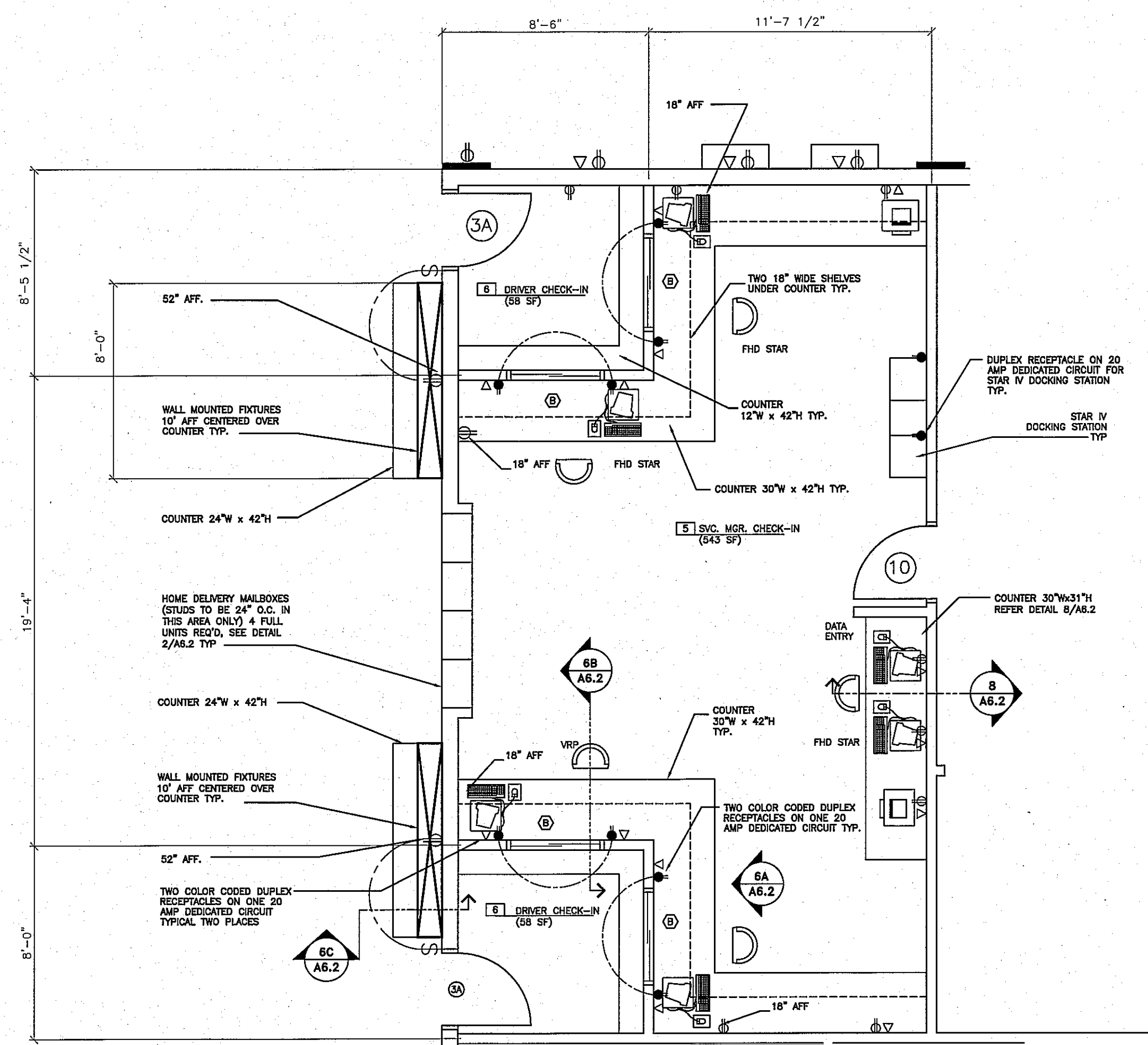
**2 HOME DELIVERY MAILBOX ARRANGEMENT**

**2B SECTION A-A**  
SCALE: 3/4" = 1'-0"

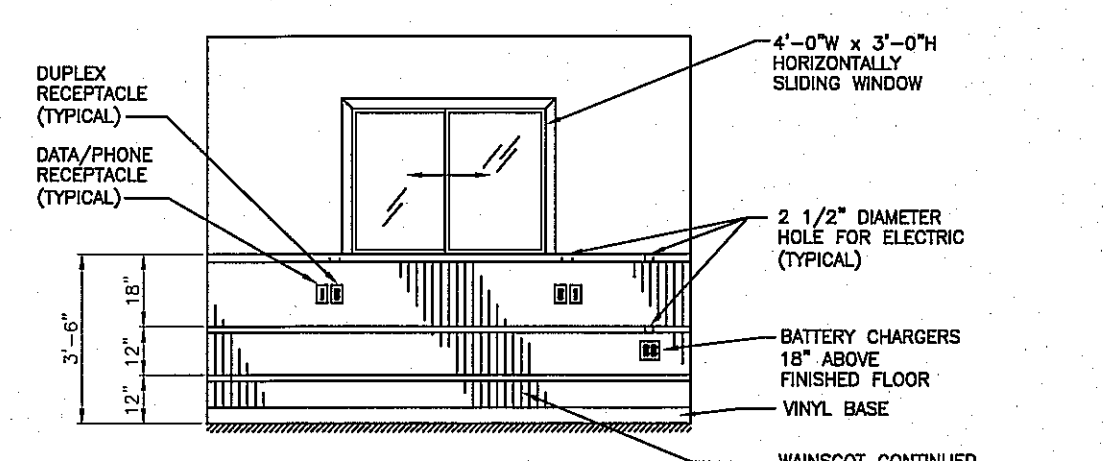
**3 WAINSCOT DETAIL**  
SCALE: 3" = 1'-0"

**4 SHELF DETAIL**  
SCALE: 3/4" = 1'-0"

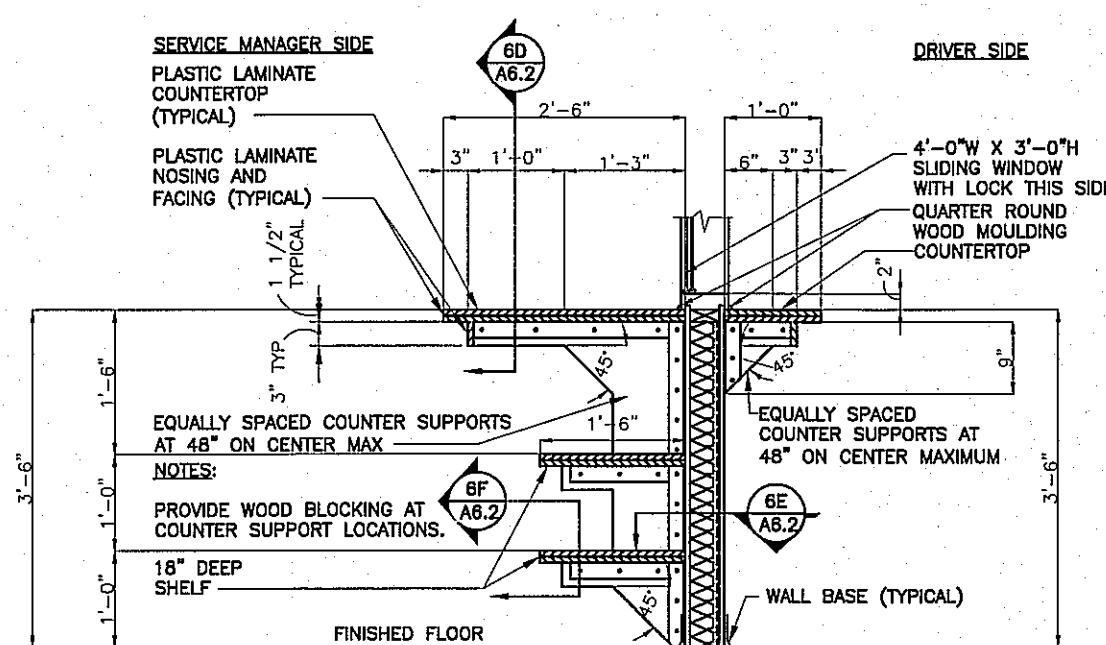
- NOTES:**
- MAILBOX UNIT SHALL BE MODEL NUMBER 2030 AS MANUFACTURED BY SECURITY MANUFACTURING CORPORATION.
  - STANDARD ROUGH OPENING FOR FULL (30 BOX) UNIT IS 22 1/2"W X 28 1/2"H. (3 FULL UNIT SHOWN)
  - INSTALLATION SIMILAR FOR MASONRY CONSTRUCTION. PROVIDE ADEQUATE LINTEL SUPPORT.
  - THIS DETAIL IS FOR REFERENCE ONLY. FOR ACTUAL NUMBER OF UNITS REQUIRED, REFER TO OFFICE FLOOR PLAN.



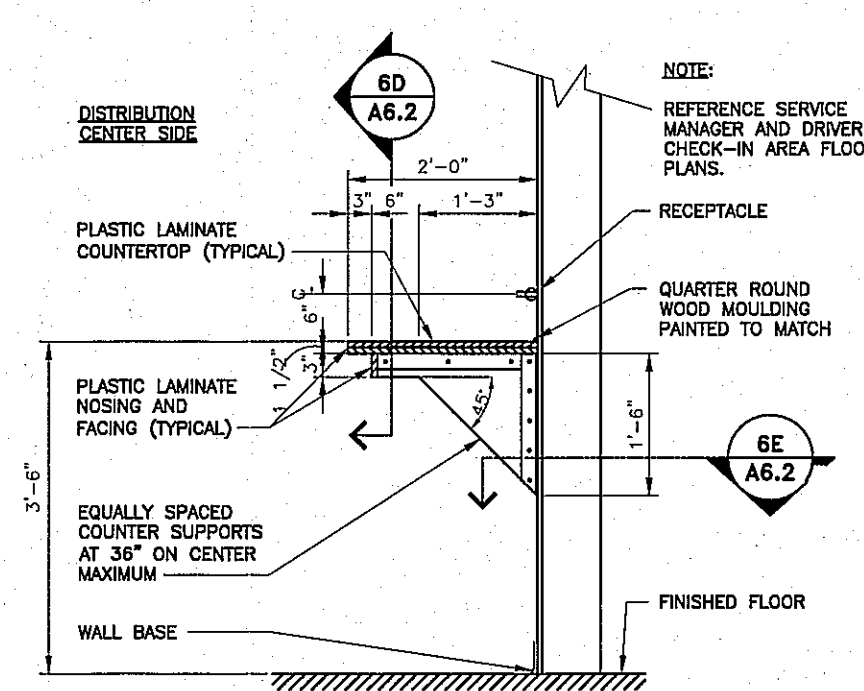
**6 CHECK-IN AREA FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



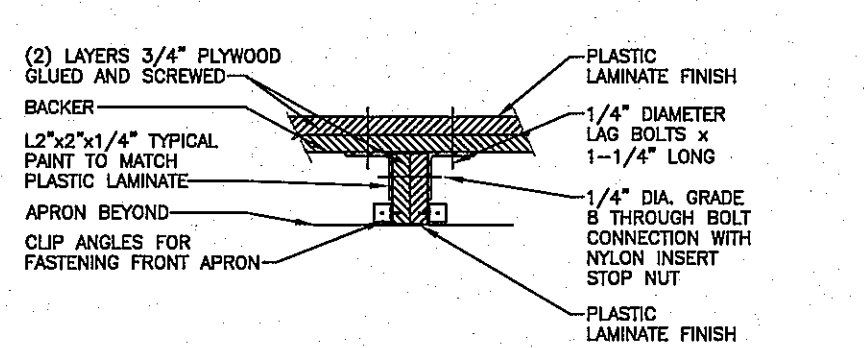
**6A ELEVATION**  
SCALE: 1/4" = 1'-0"



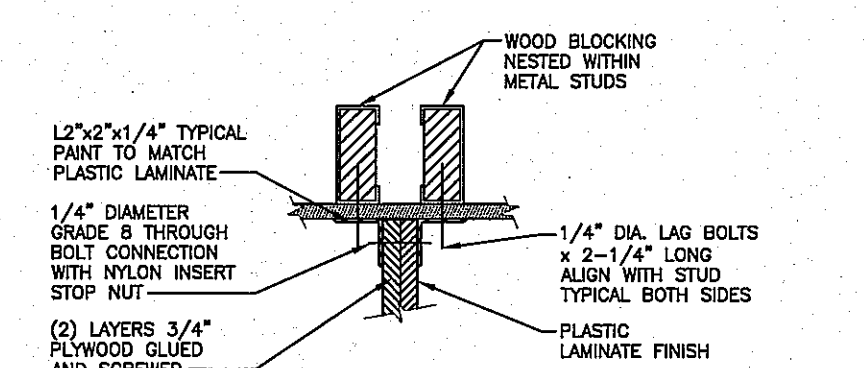
**6B CHECK-IN COUNTER SECTION**  
SCALE: 1/2" = 1'-0"



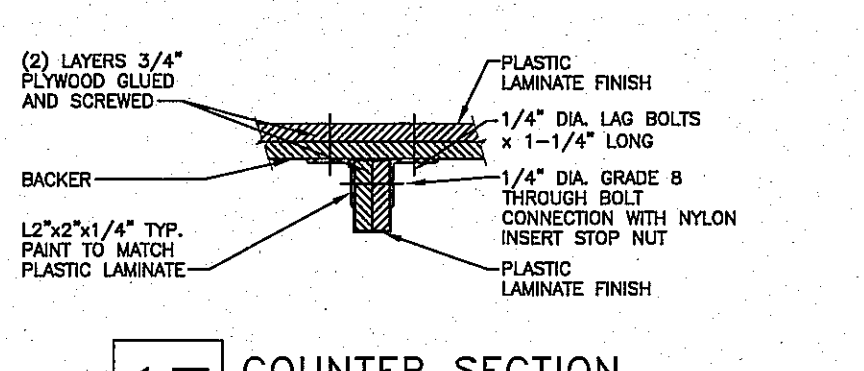
**6C DRIVER COUNTER SECTION**  
SCALE: 1/2" = 1'-0"



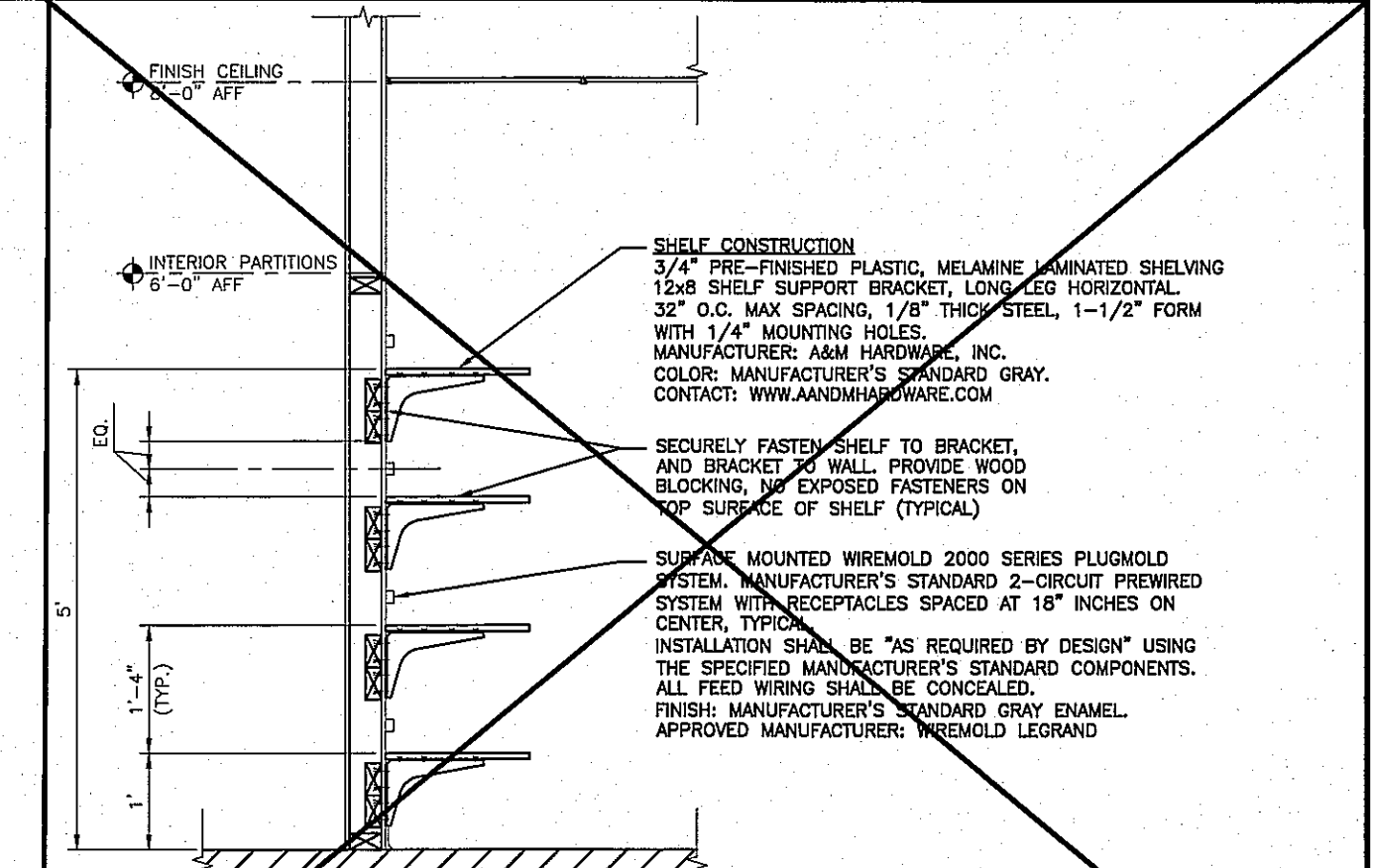
**6D COUNTER SECTION**  
SCALE: 1 1/2" = 1'-0"



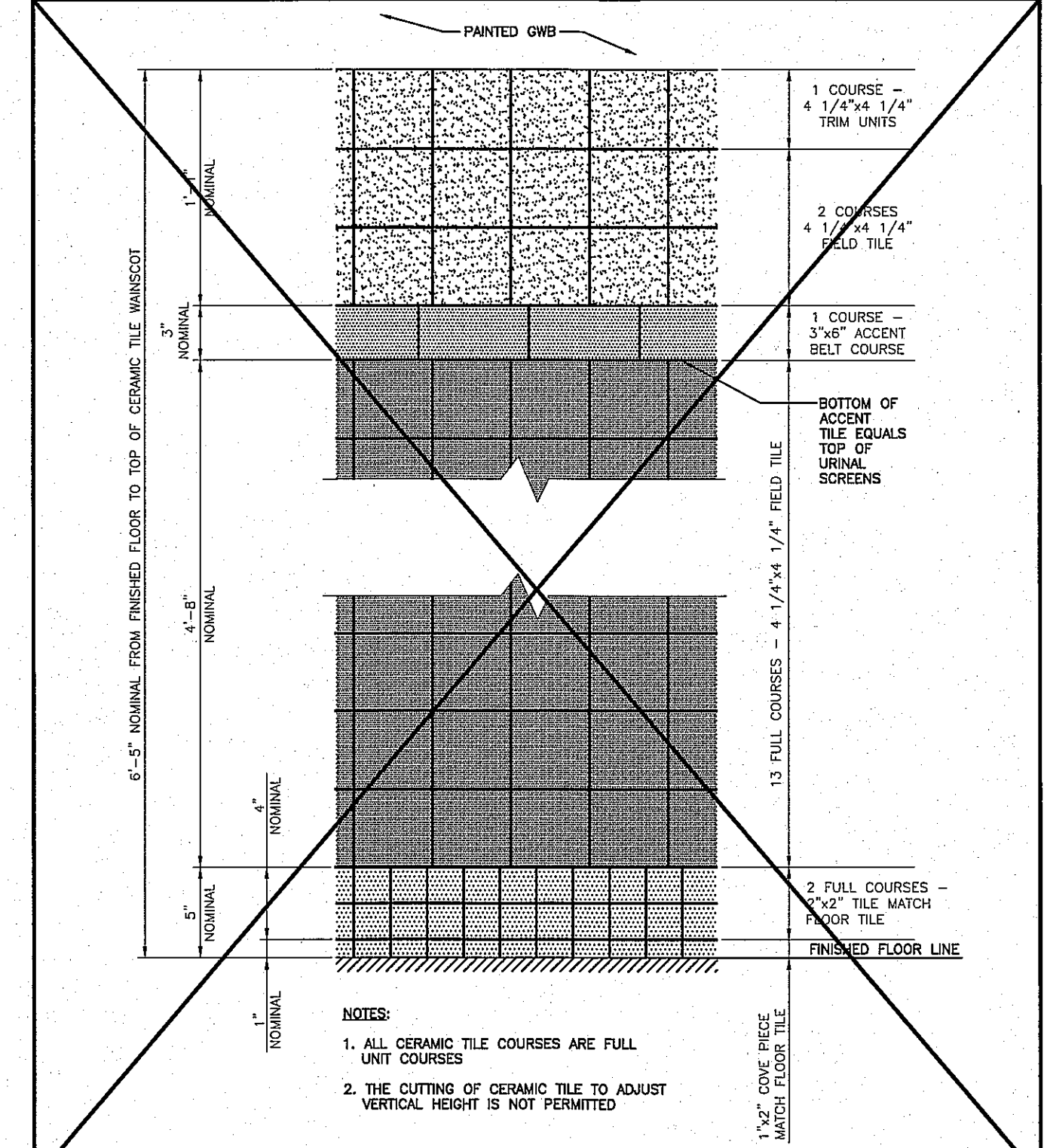
**6E COUNTER SECTION**  
SCALE: 1 1/2" = 1'-0"



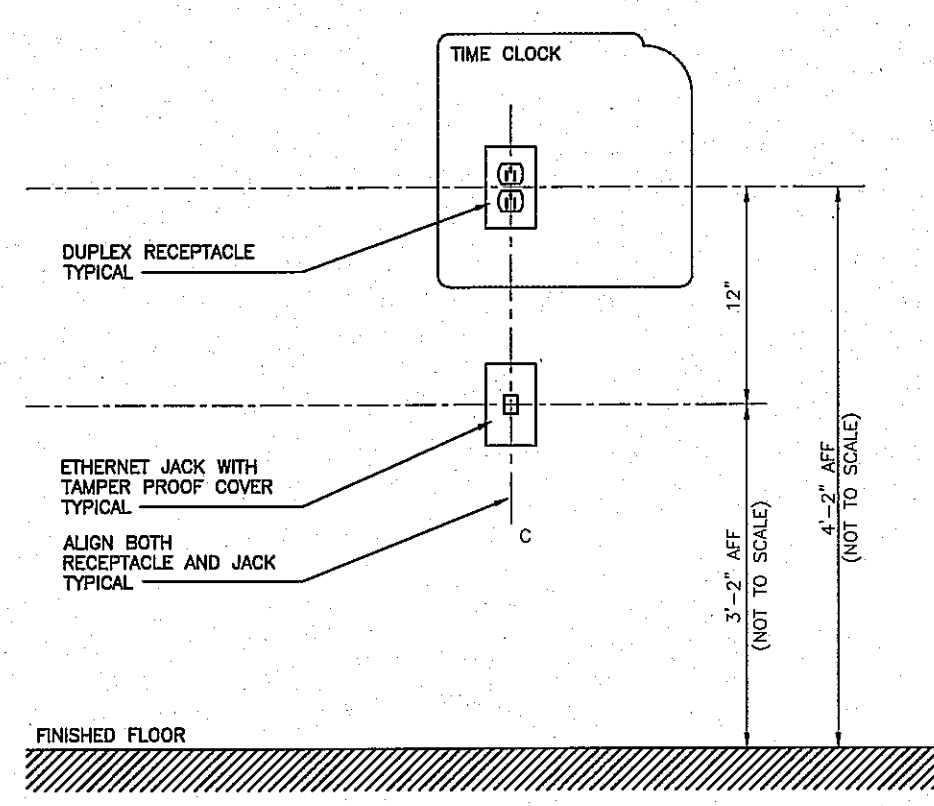
**6F COUNTER SECTION**  
SCALE: 1 1/2" = 1'-0"



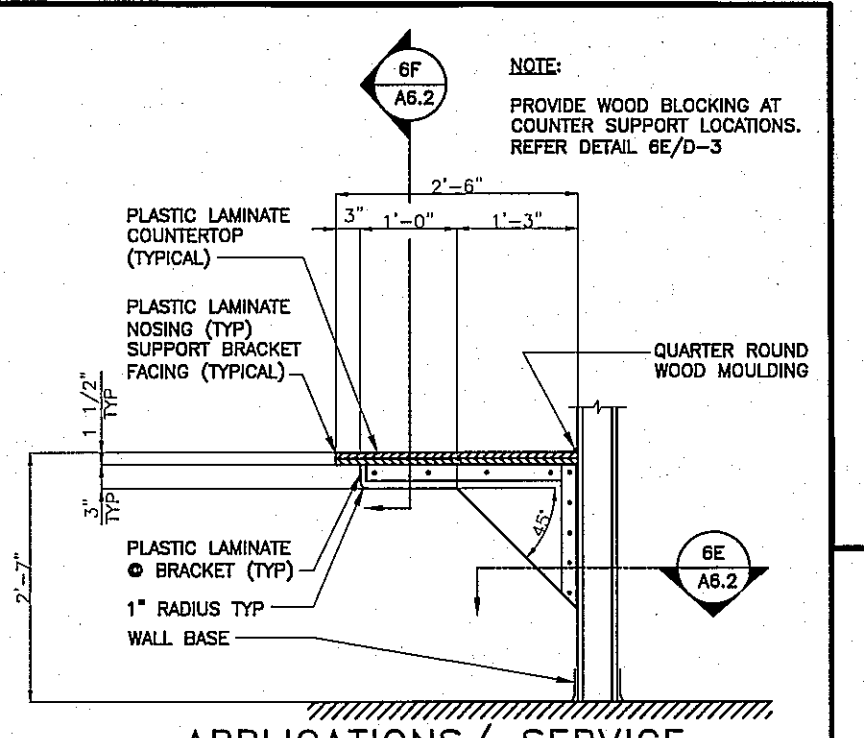
**9 SCANNER EQUIPMENT ROOM TYPICAL SHELF**  
SCALE: 1/2" = 1'-0"



**5 TOILET ROOM CERAMIC TILE WAINSCOT DETAIL**  
SCALE: 1-1/2" = 1'-0"



**7 TIME CLOCK RECEPTACLES ELEVATION**  
SCALE: 1 1/2" = 1'-0"



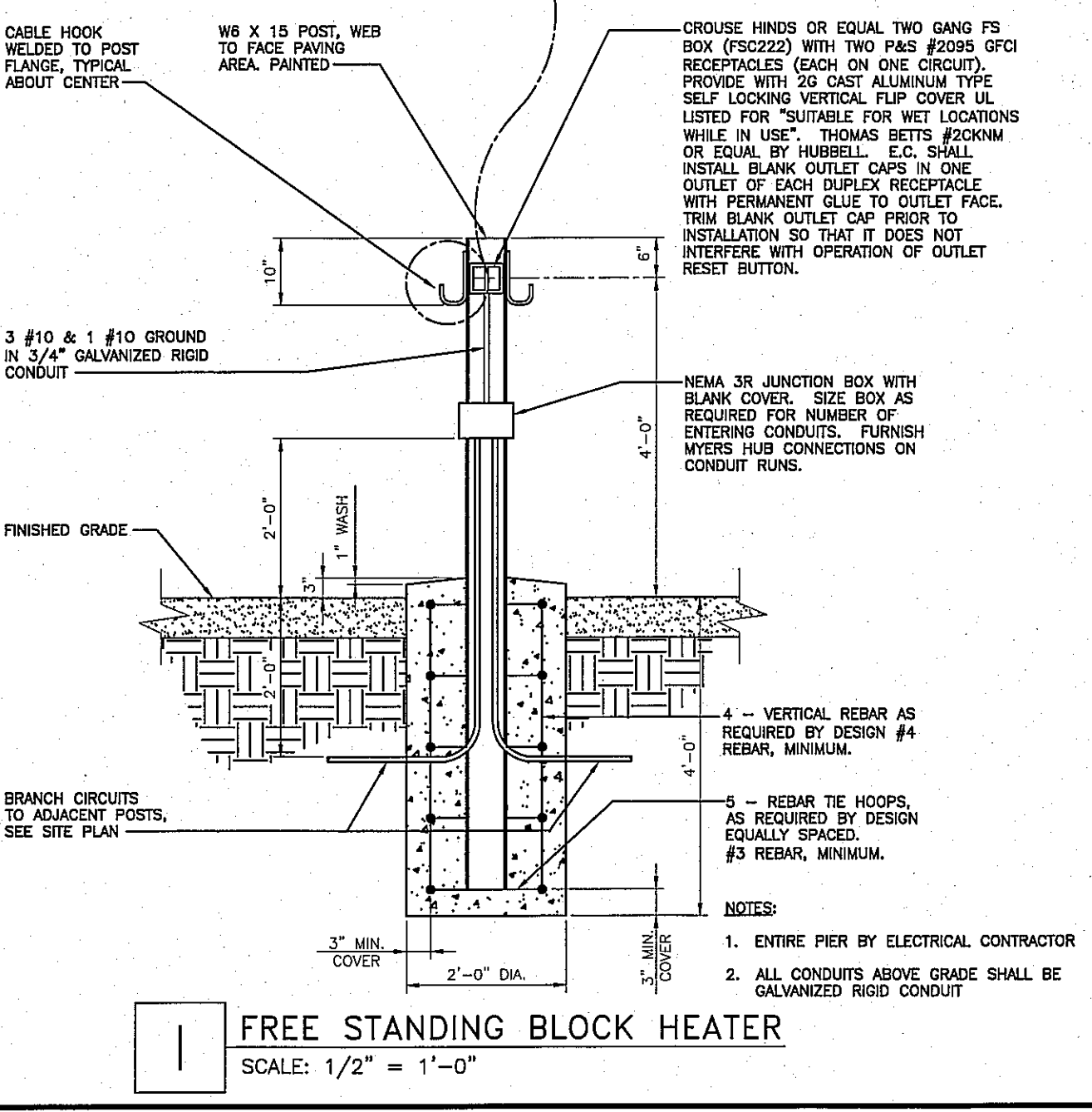
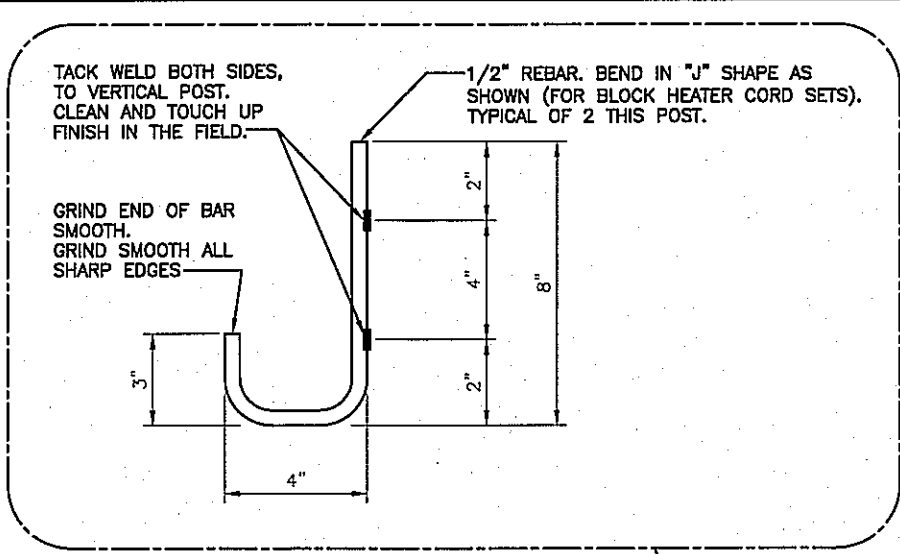
**8 APPLICATIONS/ SERVICE MANAGER COUNTER SECTION**  
SCALE: 1/2" = 1'-0"

**RECORD DRAWING**  
02.20.15

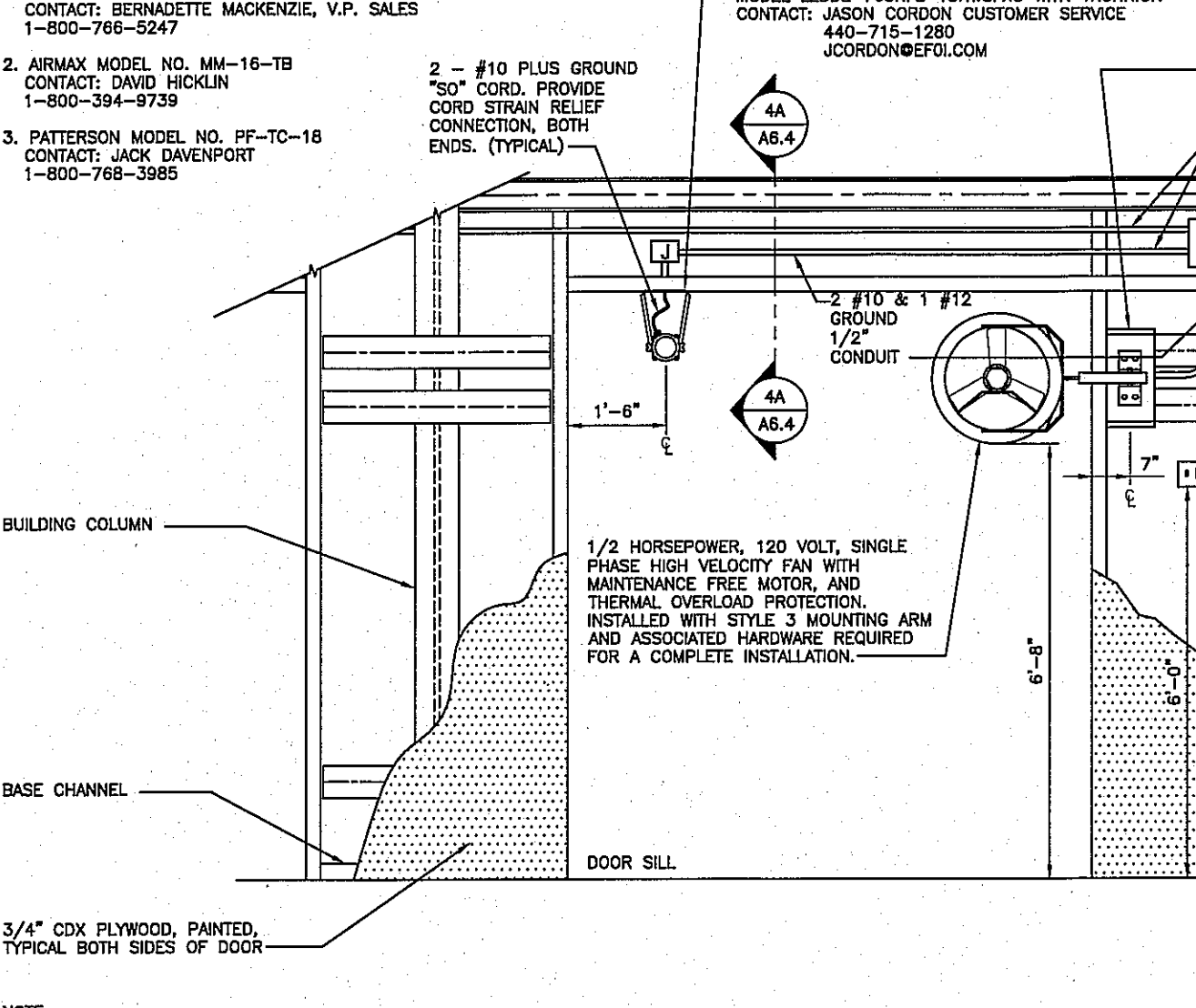
|               |          |
|---------------|----------|
| DATE:         |          |
| NO. REVISION: |          |
| SHEET TITLE:  | DETAILS  |
| JOB NUMBER:   | 13002    |
| DESIGNED BY:  | DN       |
| DRAWN BY:     | MW       |
| CHECKED BY:   | DN       |
| DATE:         | 07.22.13 |
| SHEET NO.:    |          |



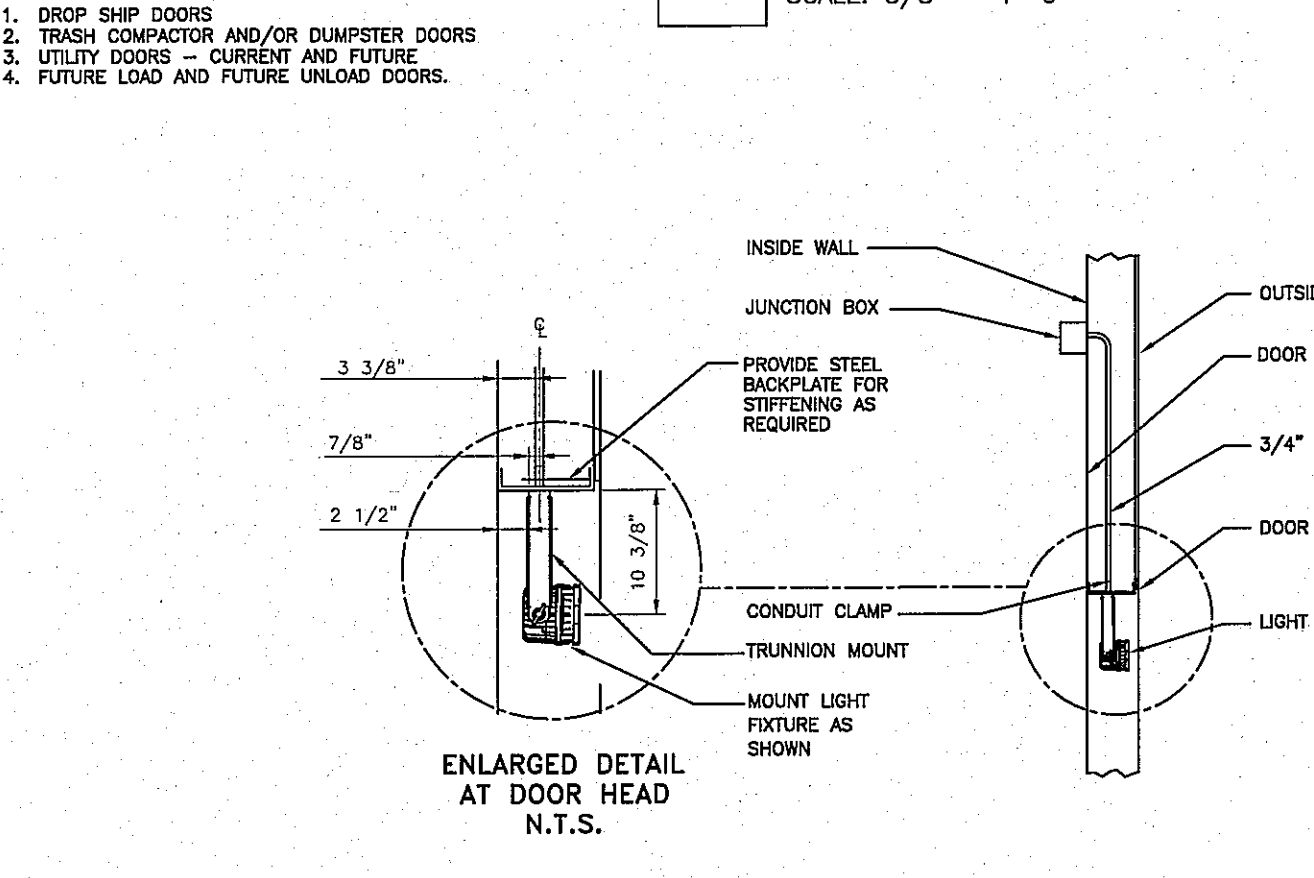




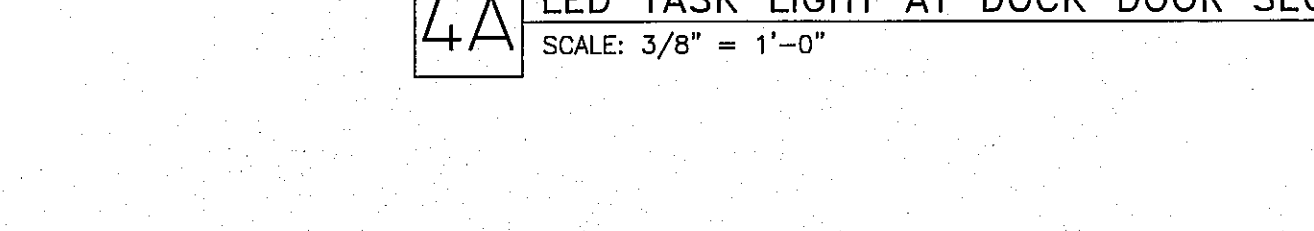
**1 FREE STANDING BLOCK HEATER**  
SCALE: 1/2" = 1'-0"



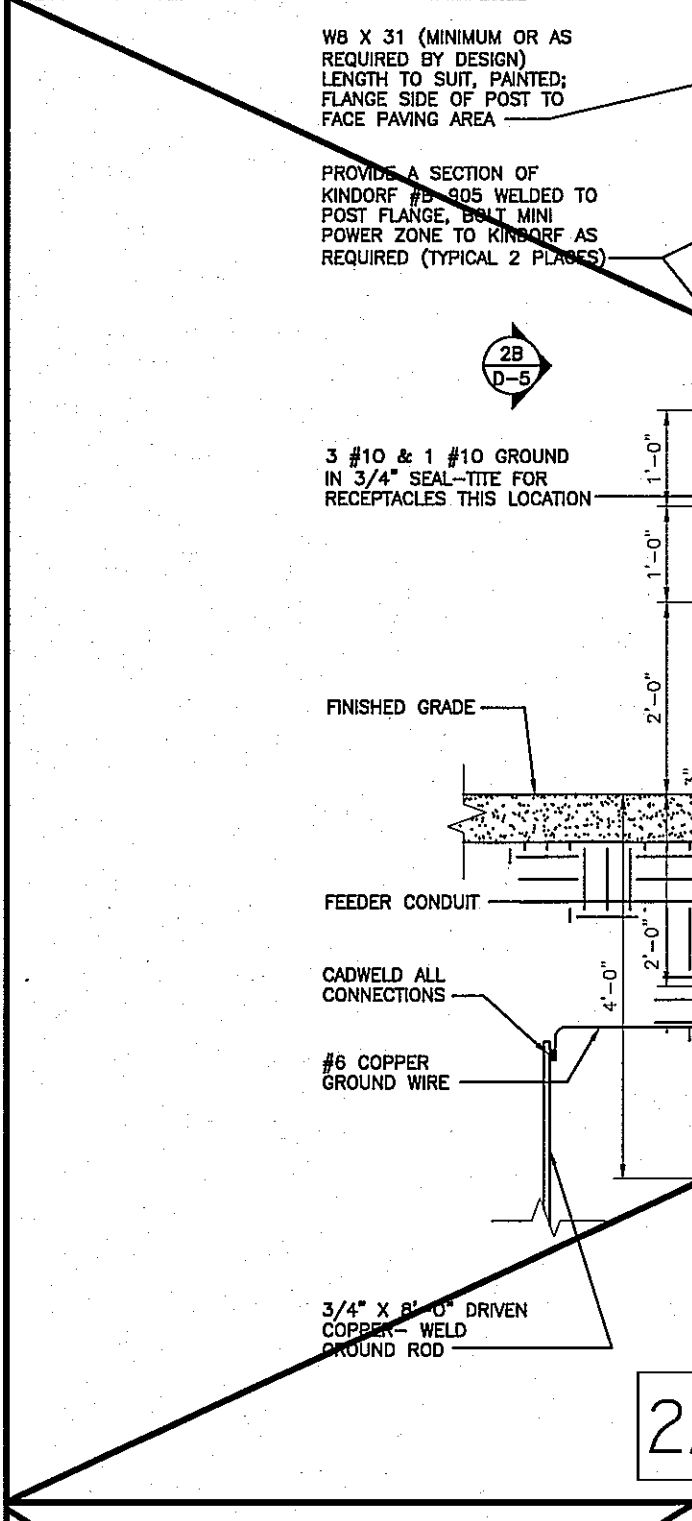
**2 MINI-POWER ZONE INSTALLATION FOR BLOCK HEATER RECEPTACLES**  
SCALE: 1/2" = 1'-0"



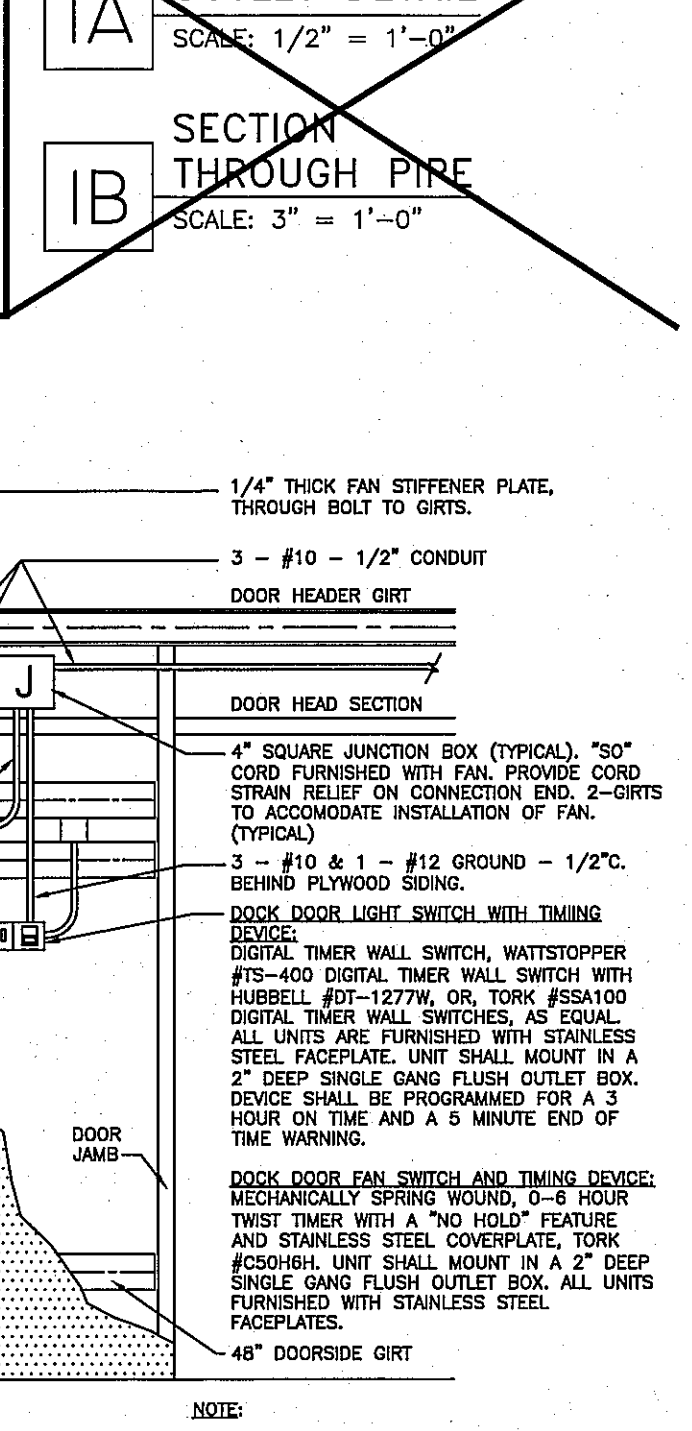
**3 BUILDING MOUNTED BLOCK HEATER RECEPTACLE**  
SCALE: 3/4" = 1'-0"



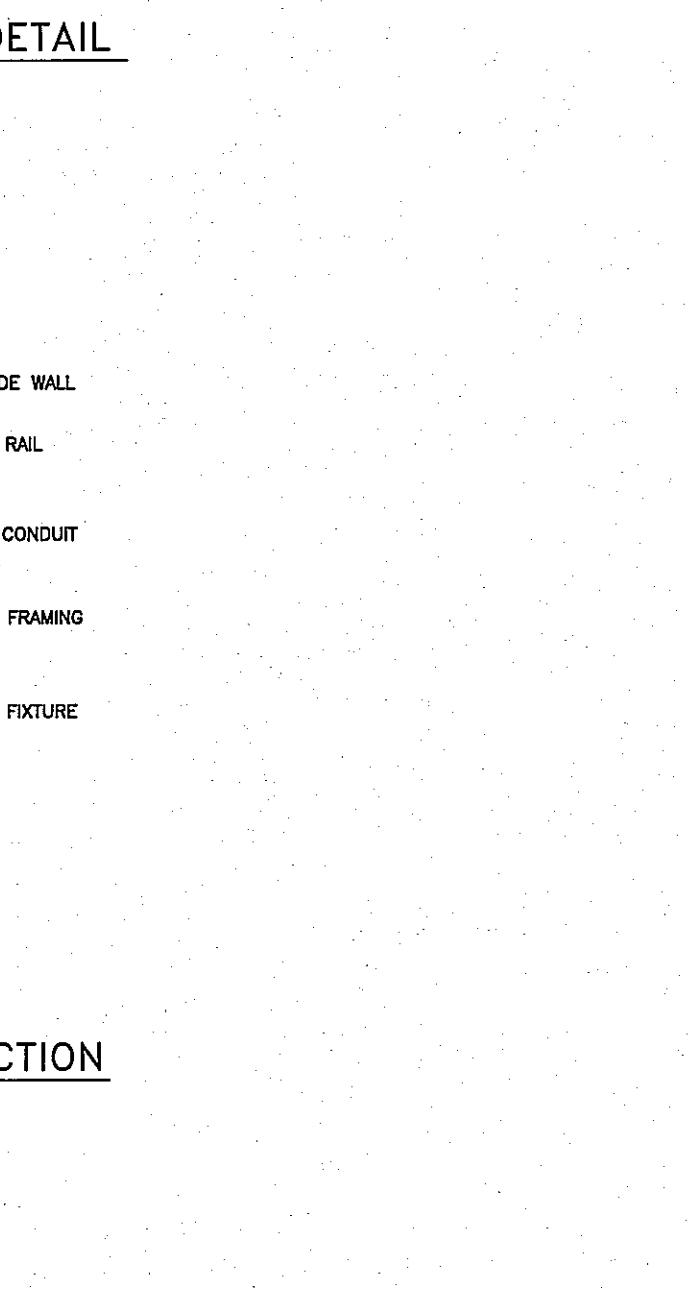
**4 STANDARD DOCK DOOR DETAIL**  
SCALE: 3/8" = 1'-0"



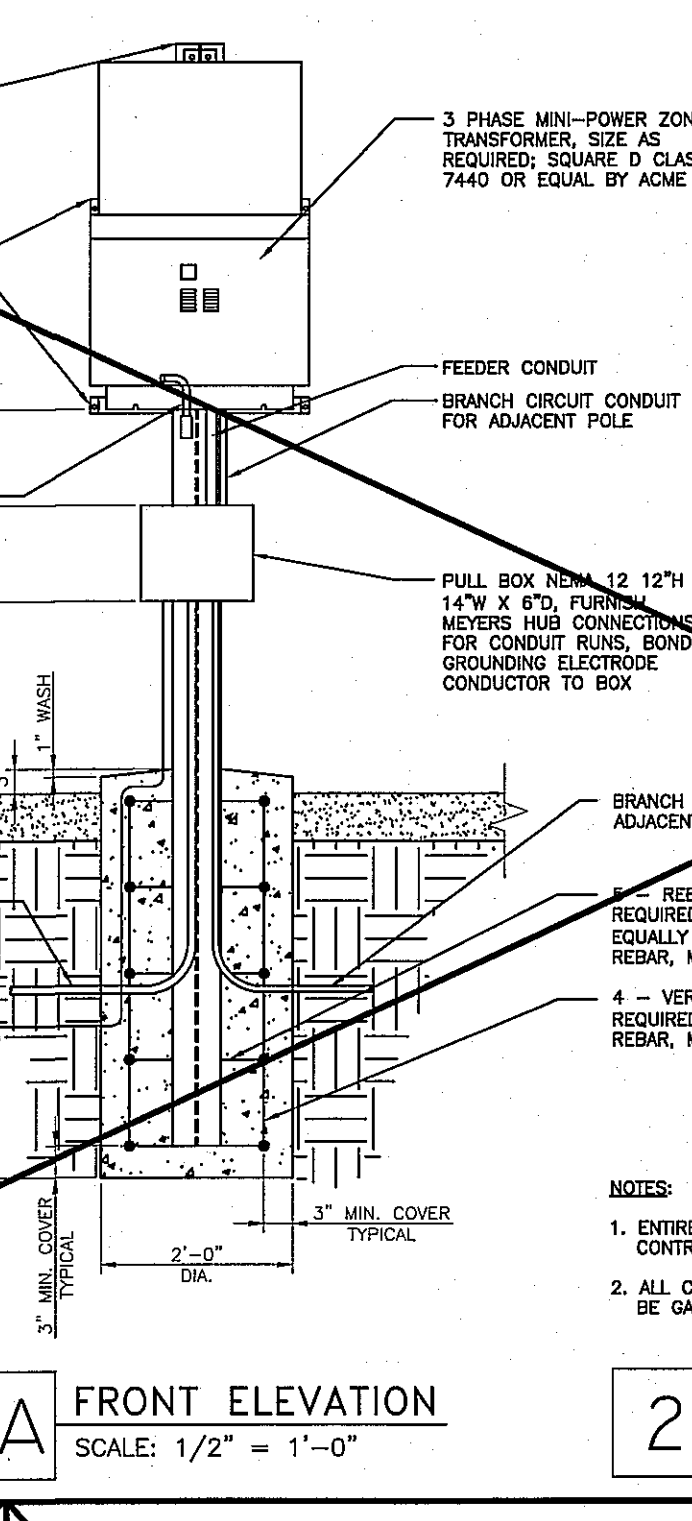
**5 EMERGENCY GENERATOR CONNECTION CABINET**  
SCALE: N.T.S.



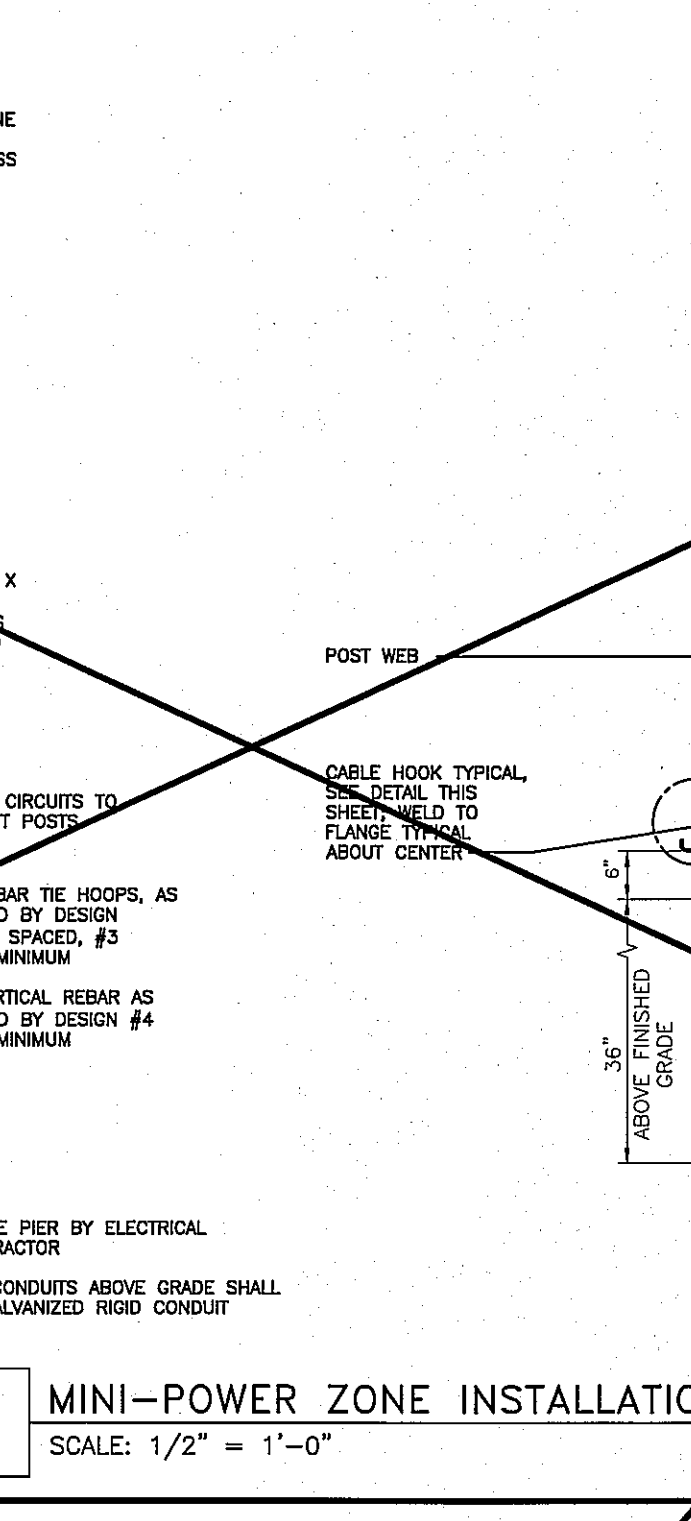
**6 GROUNDING DETAIL - RAISED FLOOR SLAB**  
SCALE: 3/4" = 1'-0"



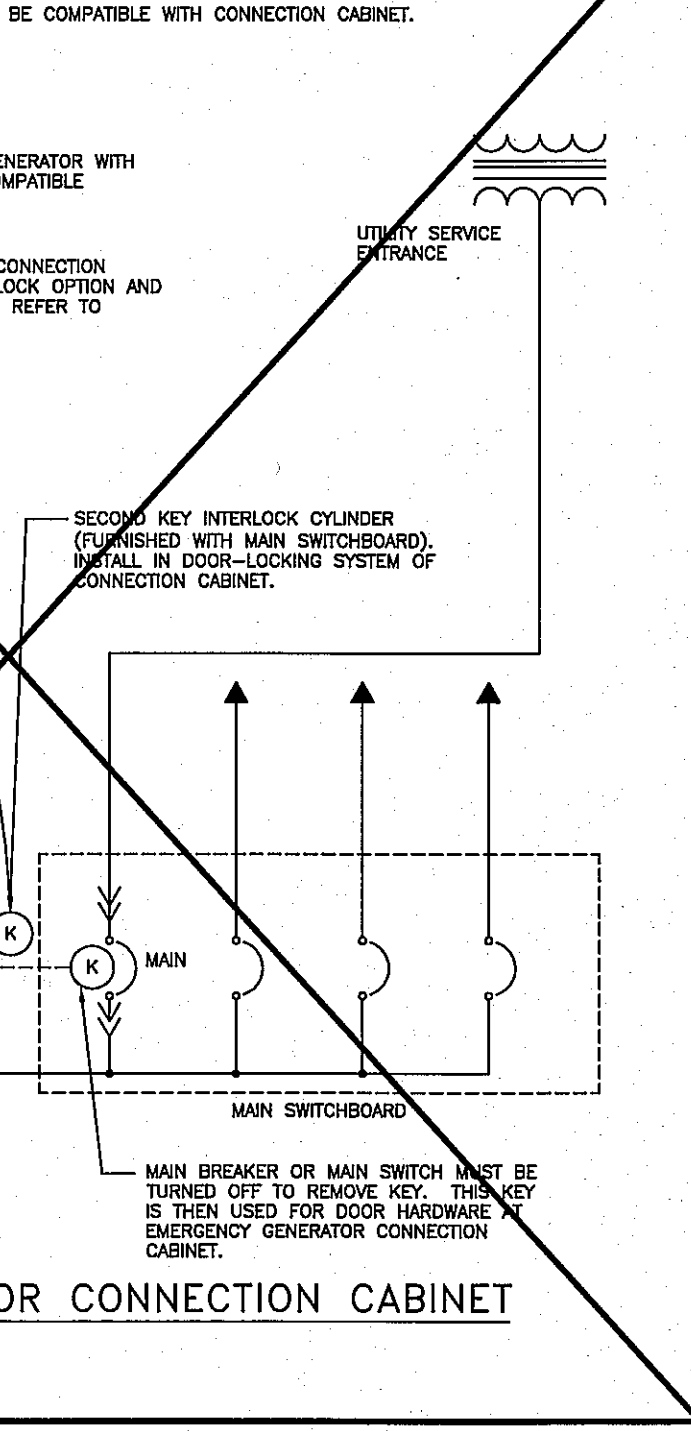
**7 GROUNDING DETAIL - GRADE LEVEL FLOOR SLAB**  
SCALE: 3/4" = 1'-0"



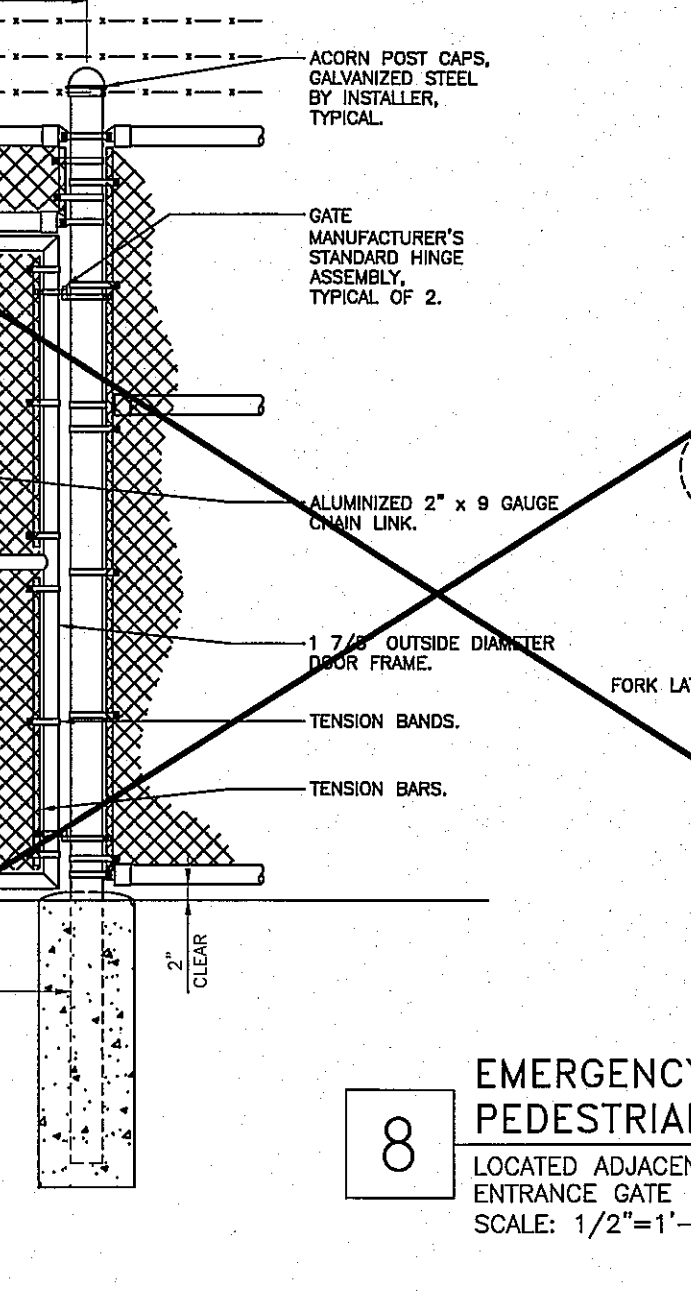
**8 EMERGENCY ACCESS PEDESTRIAN GATE**  
SCALE: 1/2" = 1'-0"



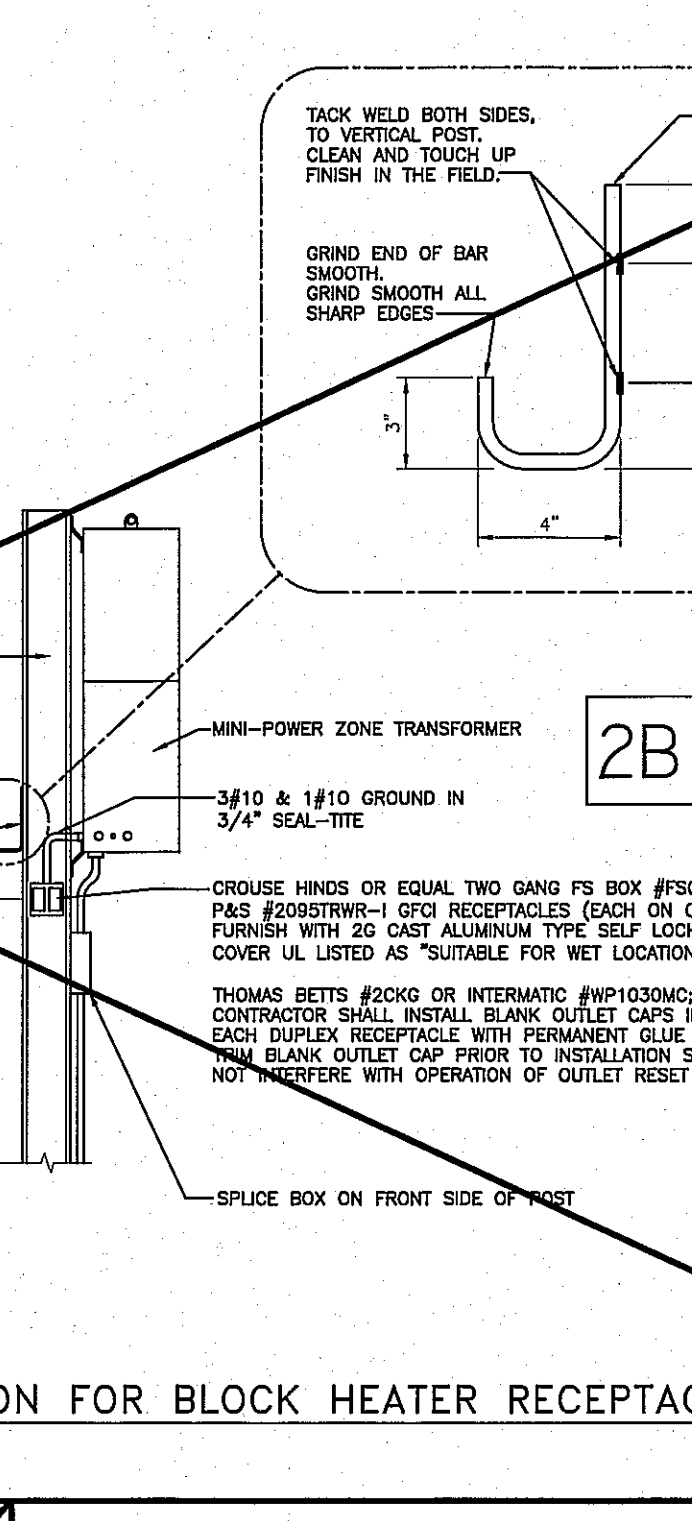
**9 LED TASK LIGHT AT DOCK DOOR SECTION**  
SCALE: 3/8" = 1'-0"



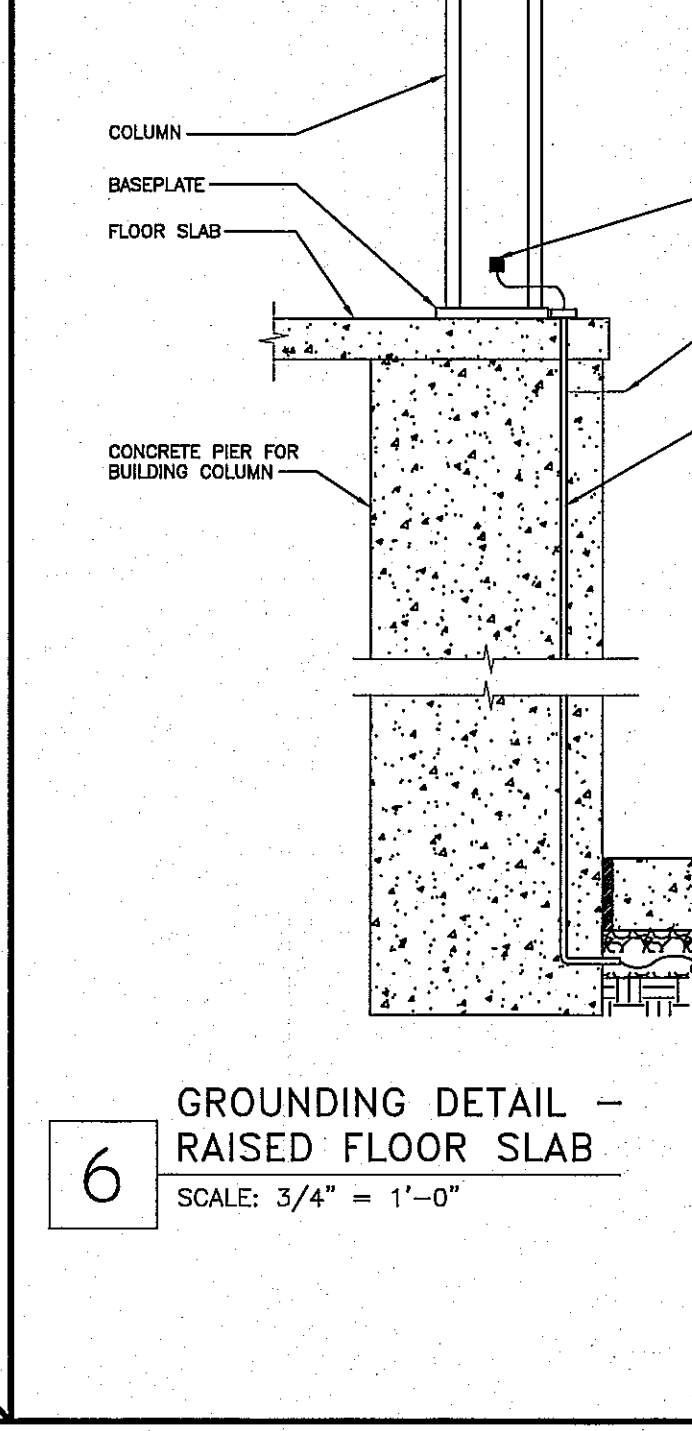
**10 BLOCK HEATER OUTLET DETAIL**  
SCALE: 1/2" = 1'-0"



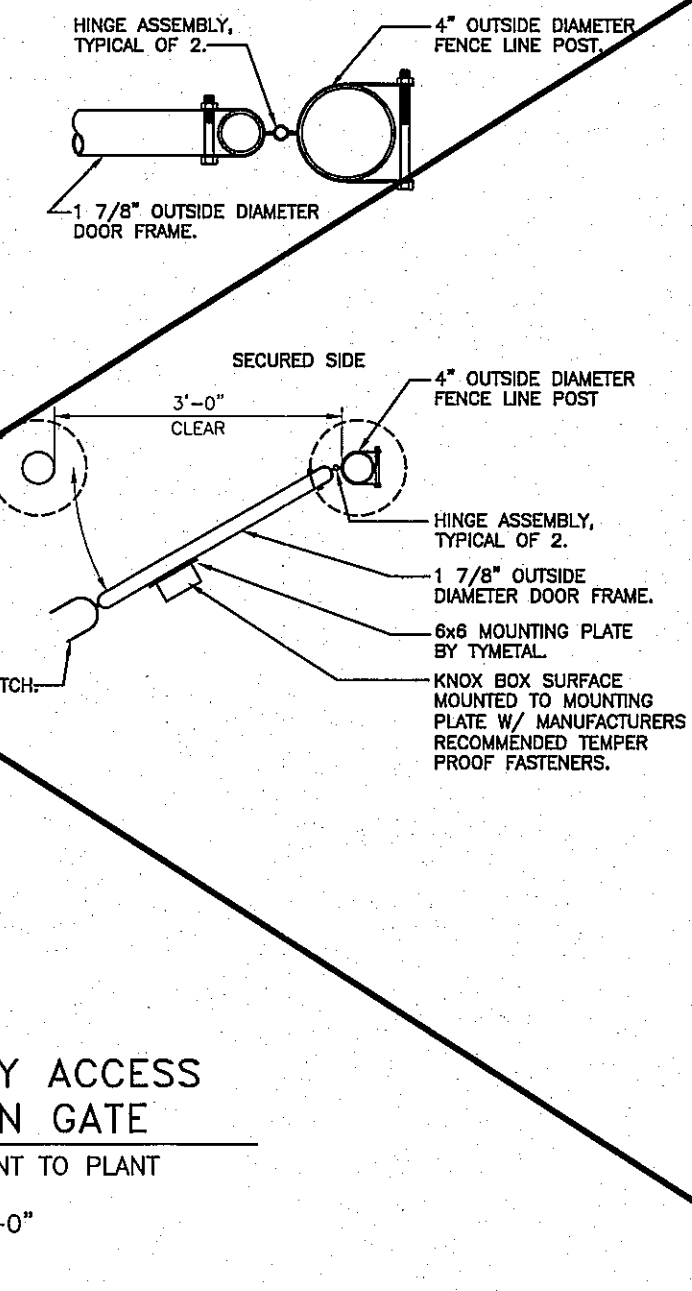
**11 SECTION THROUGH PIER**  
SCALE: 3" = 1'-0"



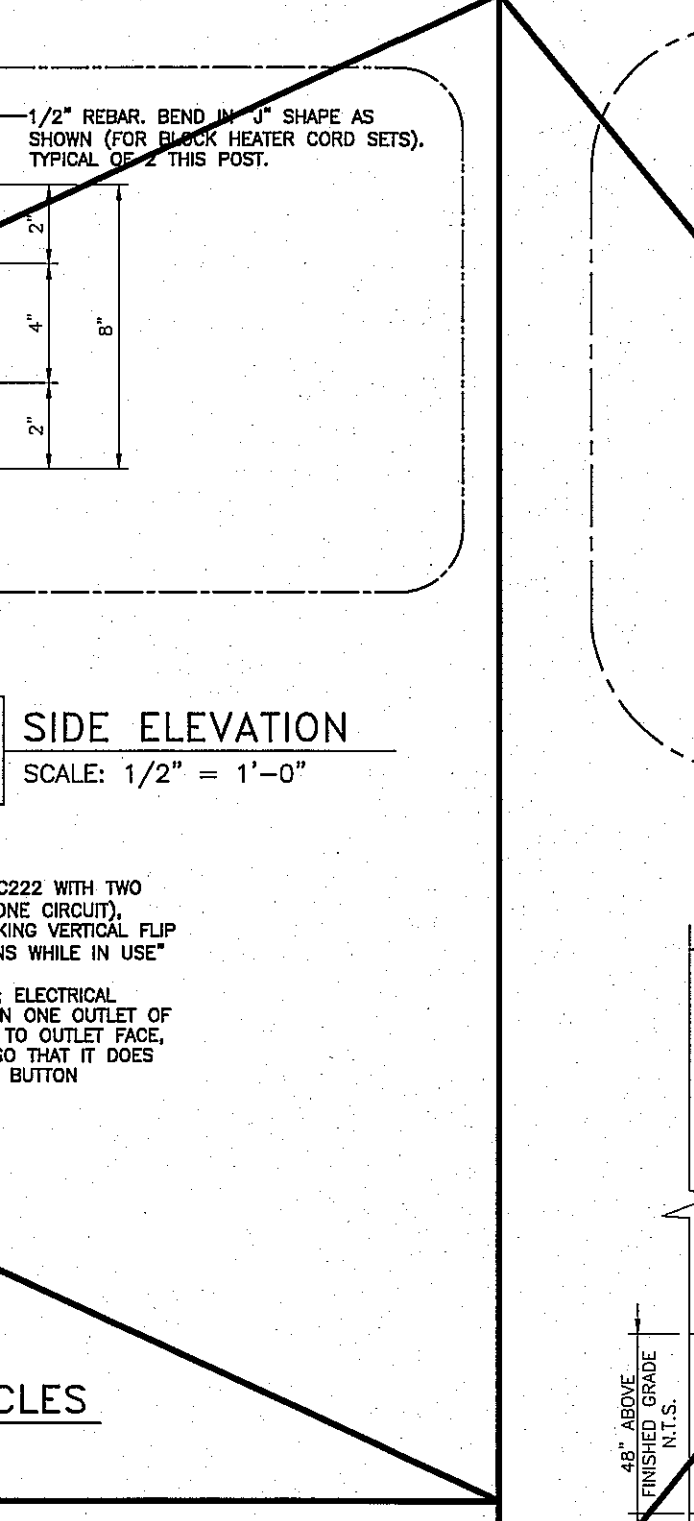
**12 FREE STANDING BLOCK HEATER**  
SCALE: 1/2" = 1'-0"



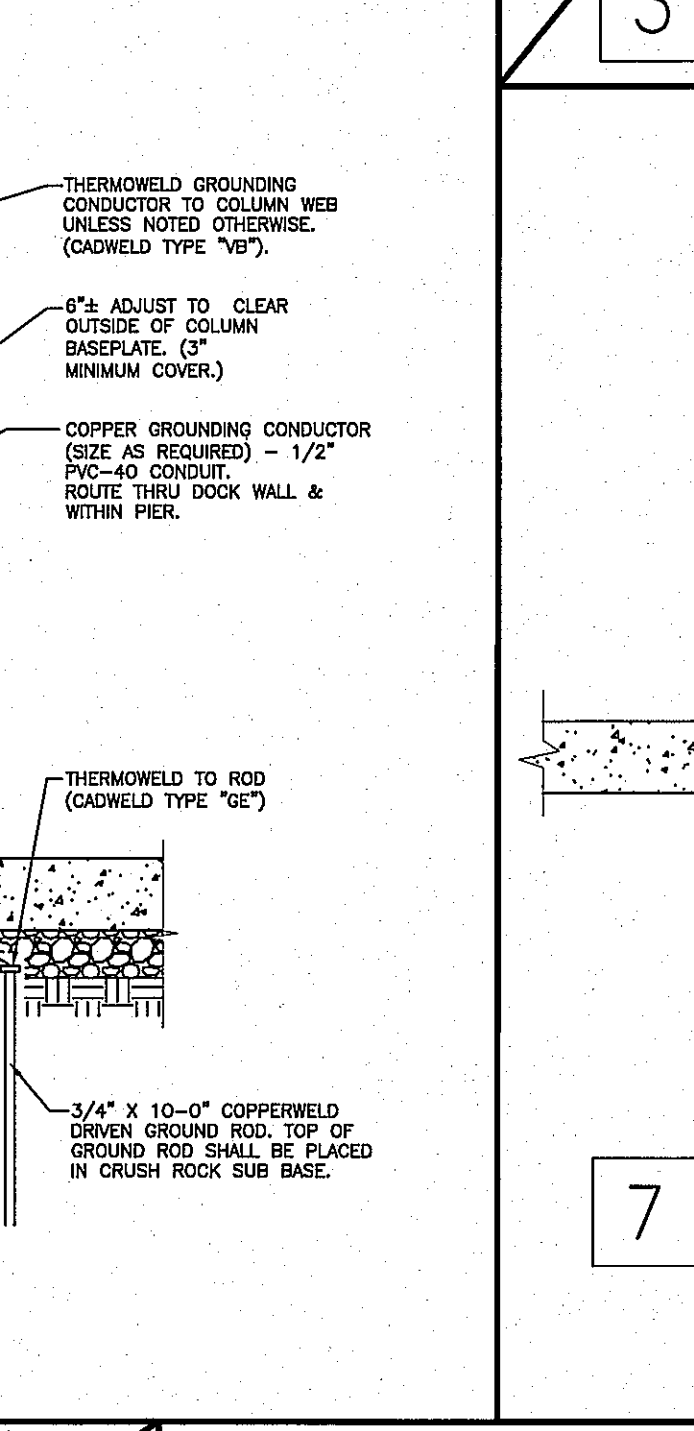
**13 MINI-POWER ZONE INSTALLATION FOR BLOCK HEATER RECEPTACLES**  
SCALE: 1/2" = 1'-0"



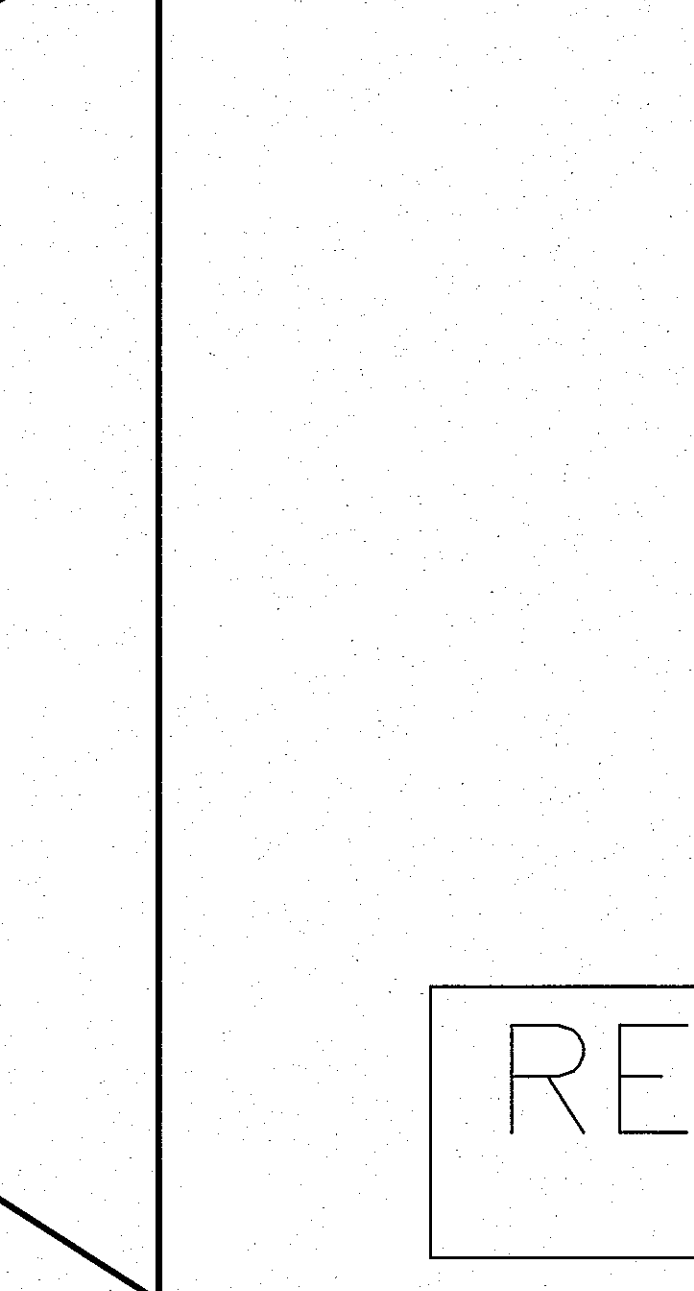
**14 BUILDING MOUNTED BLOCK HEATER RECEPTACLE**  
SCALE: 3/4" = 1'-0"



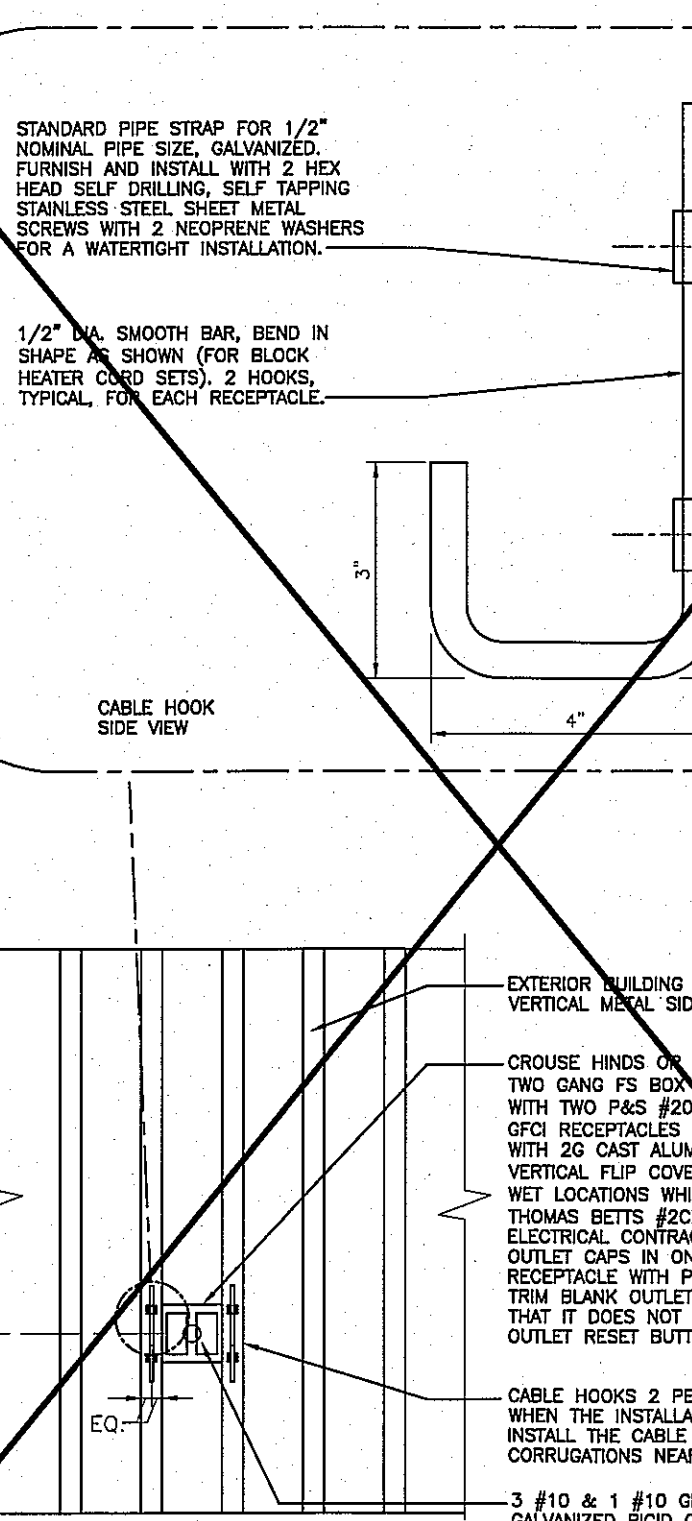
**15 EMERGENCY GENERATOR CONNECTION CABINET**  
SCALE: N.T.S.



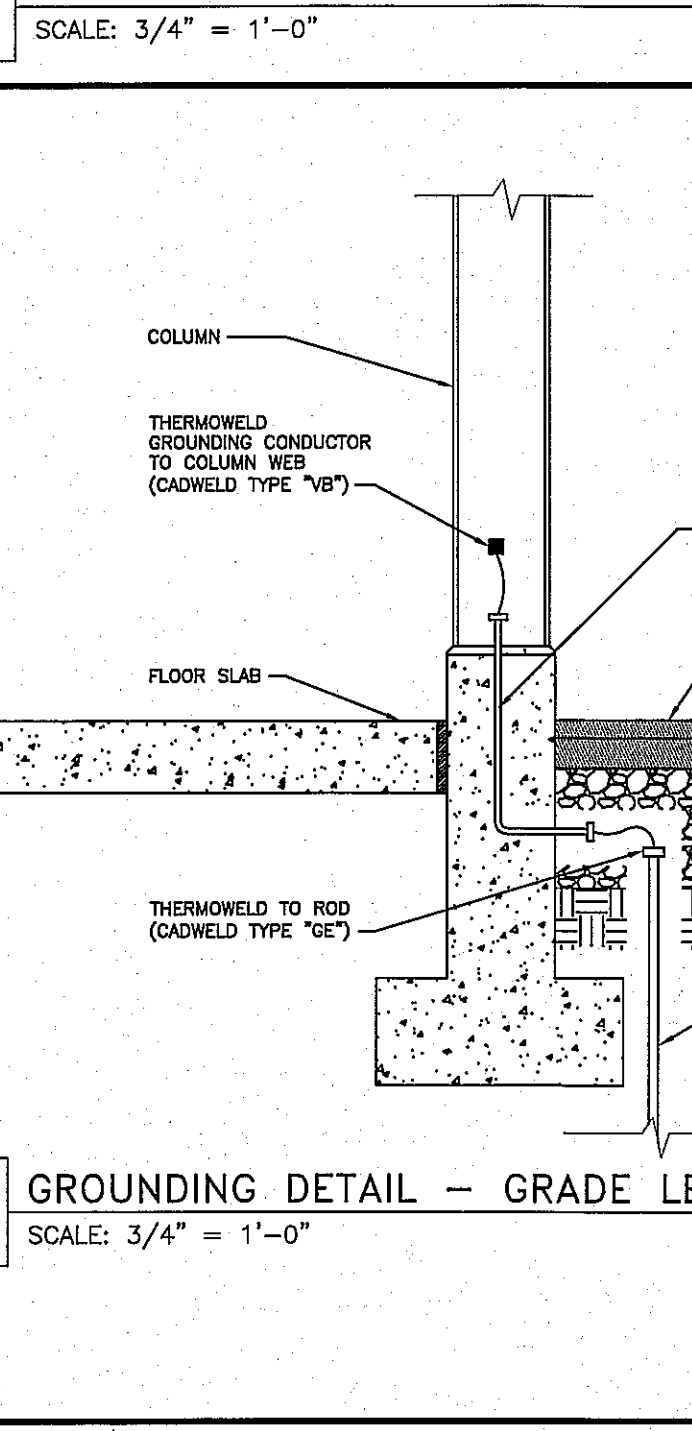
**16 GROUNDING DETAIL - RAISED FLOOR SLAB**  
SCALE: 3/4" = 1'-0"



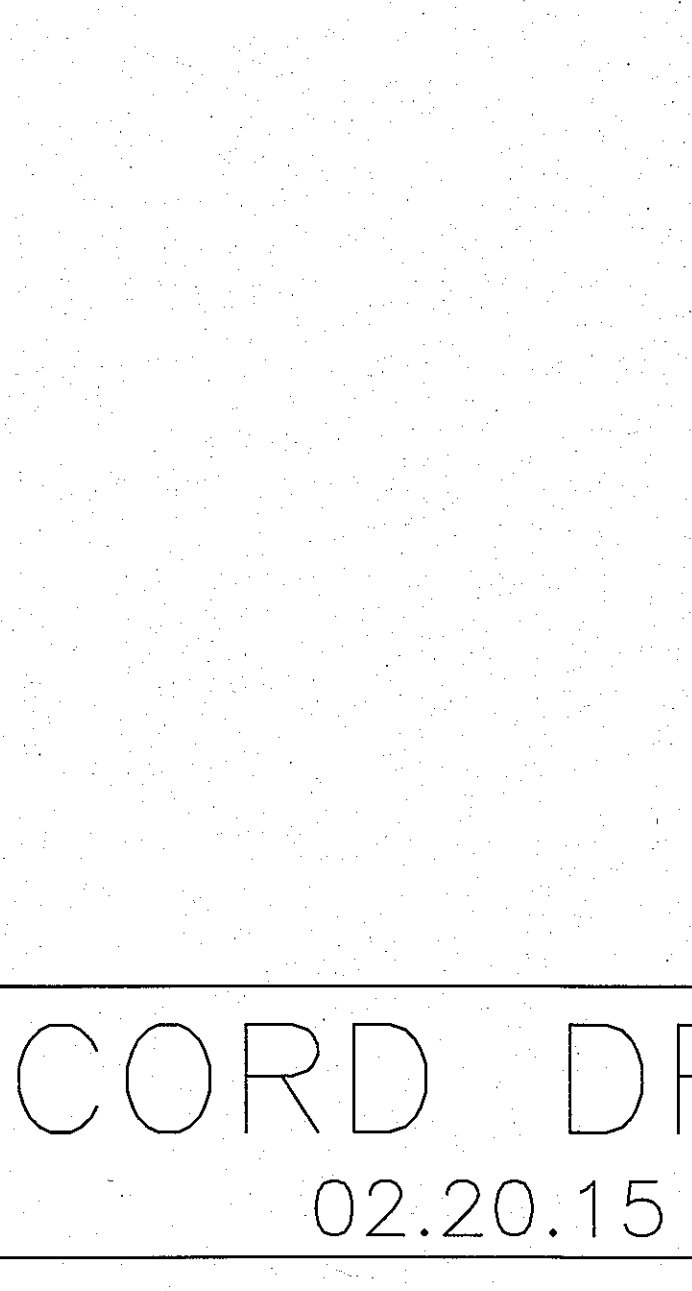
**17 GROUNDING DETAIL - GRADE LEVEL FLOOR SLAB**  
SCALE: 3/4" = 1'-0"



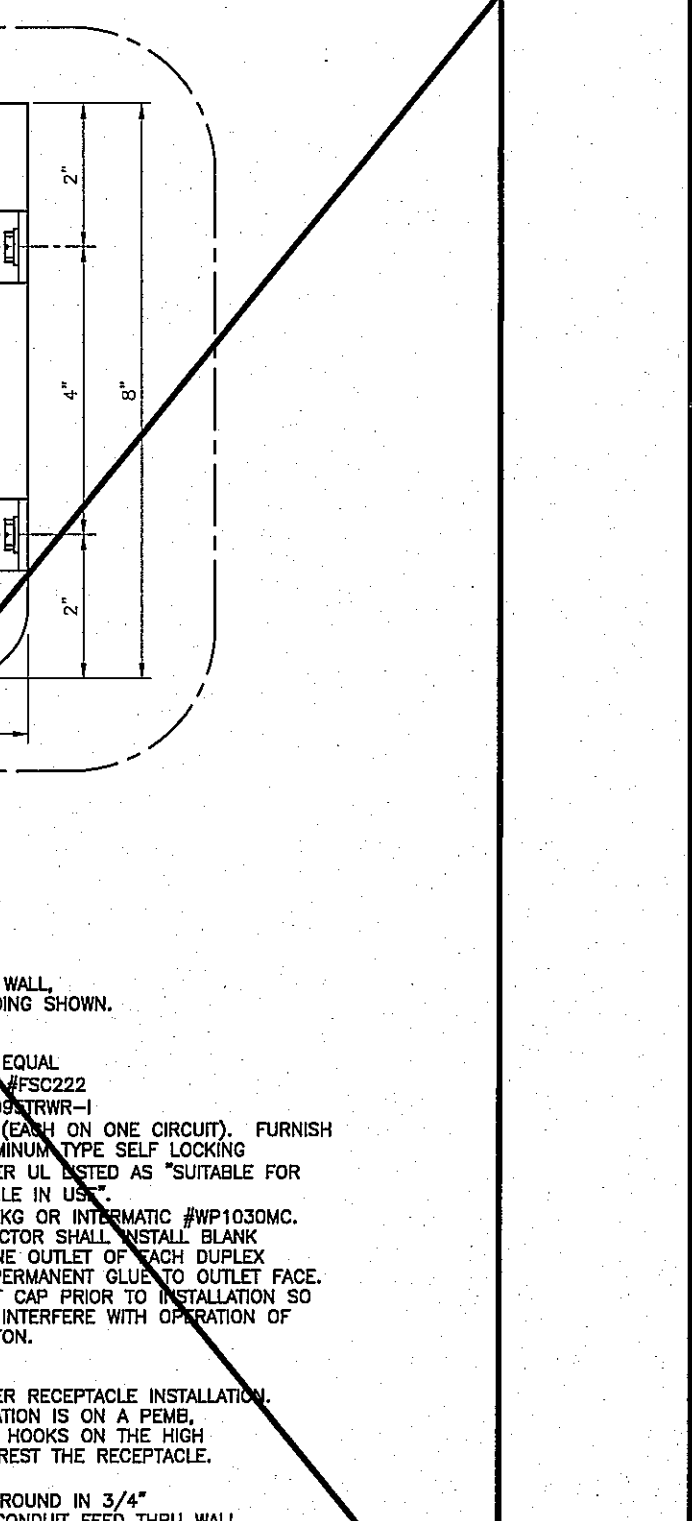
**18 EMERGENCY ACCESS PEDESTRIAN GATE**  
SCALE: 1/2" = 1'-0"



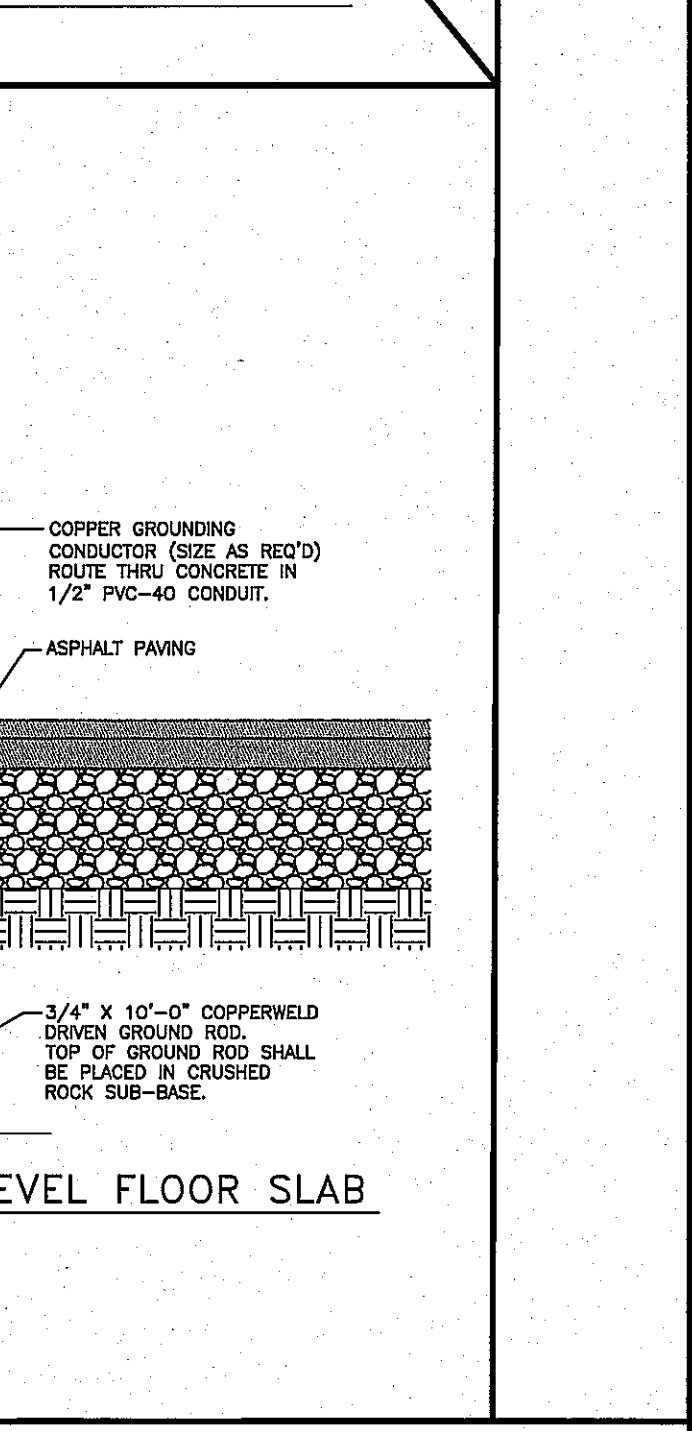
**19 LED TASK LIGHT AT DOCK DOOR SECTION**  
SCALE: 3/8" = 1'-0"



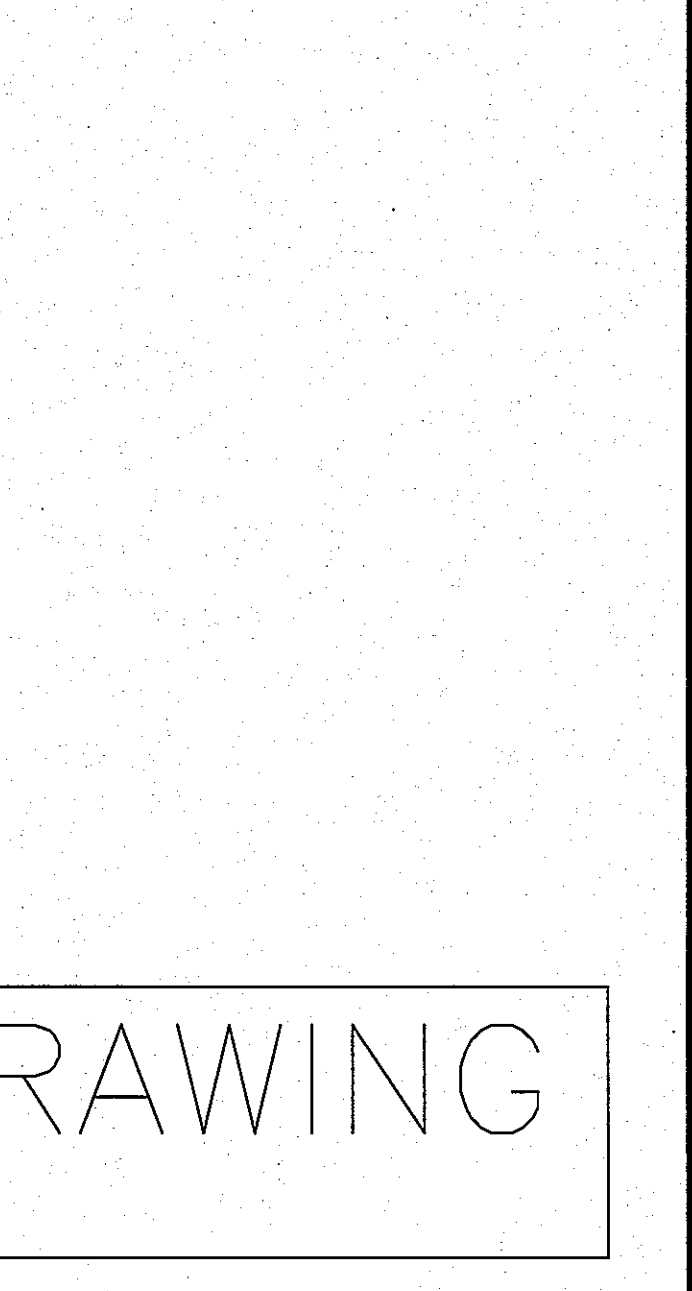
**20 BLOCK HEATER OUTLET DETAIL**  
SCALE: 1/2" = 1'-0"



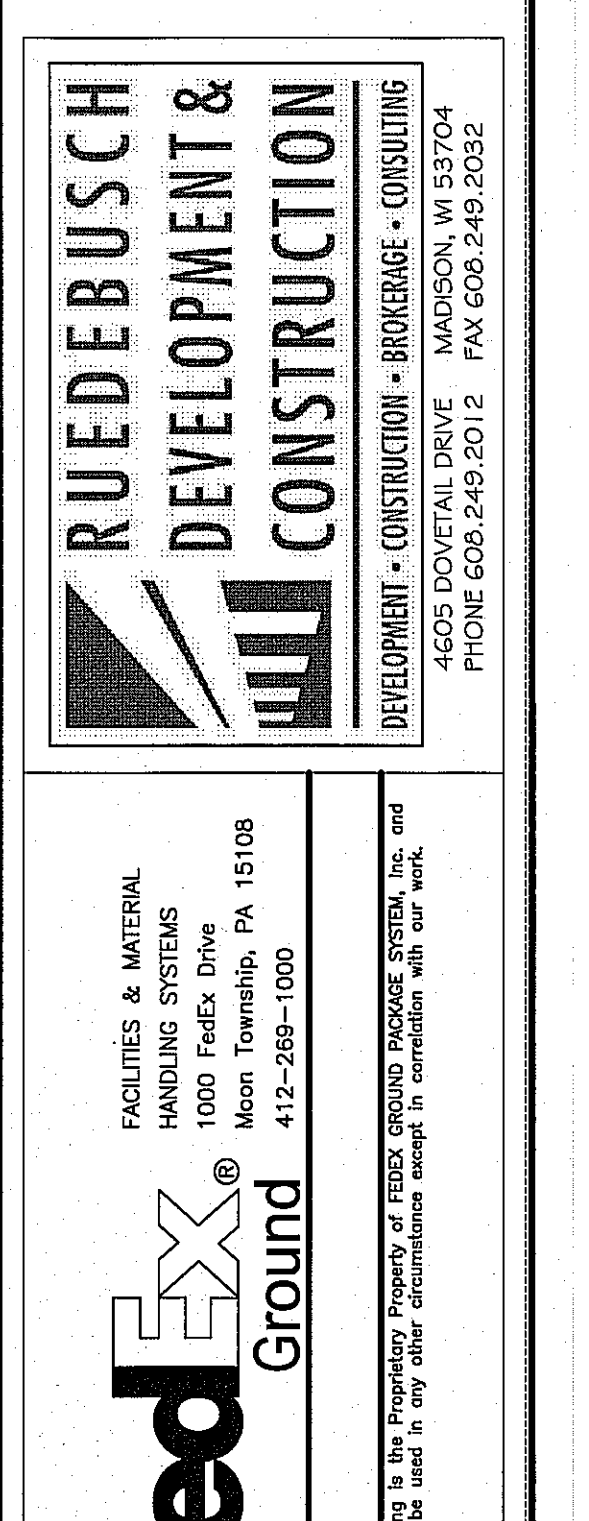
**21 SECTION THROUGH PIER**  
SCALE: 3" = 1'-0"



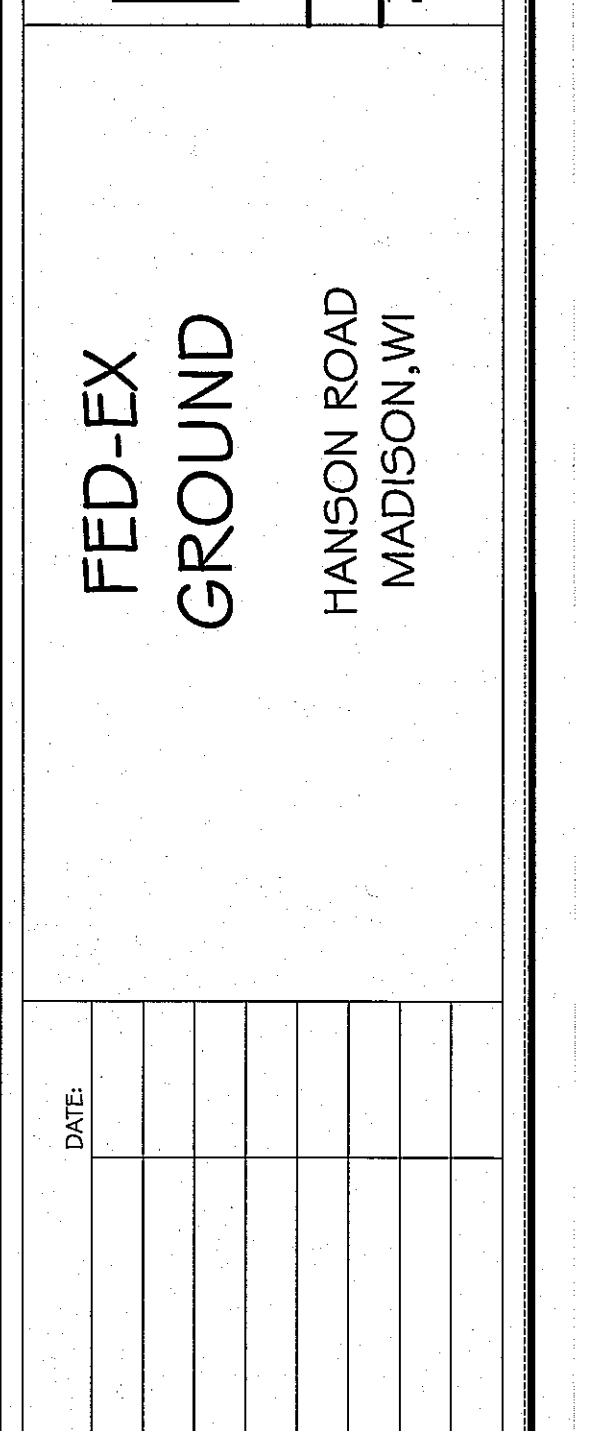
**22 FREE STANDING BLOCK HEATER**  
SCALE: 1/2" = 1'-0"



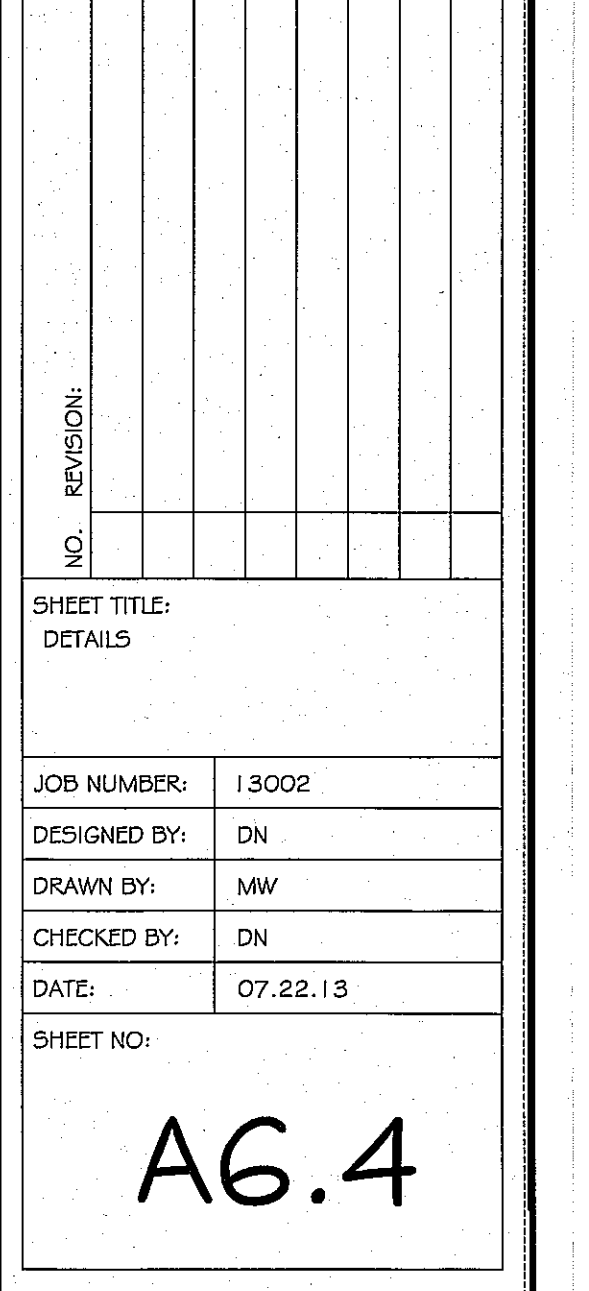
**23 MINI-POWER ZONE INSTALLATION FOR BLOCK HEATER RECEPTACLES**  
SCALE: 1/2" = 1'-0"



**24 BUILDING MOUNTED BLOCK HEATER RECEPTACLE**  
SCALE: 3/4" = 1'-0"



**25 EMERGENCY GENERATOR CONNECTION CABINET**  
SCALE: N.T.S.



**26 GROUNDING DETAIL - RAISED FLOOR SLAB**  
SCALE: 3/4" = 1'-0"

**RUEDEBUSCH DEVELOPMENT & CONSTRUCTION**  
FACILITIES & MATERIAL HANDLING SYSTEMS  
1000 FedEx Drive  
Moon Township, PA 15108  
412-269-1000

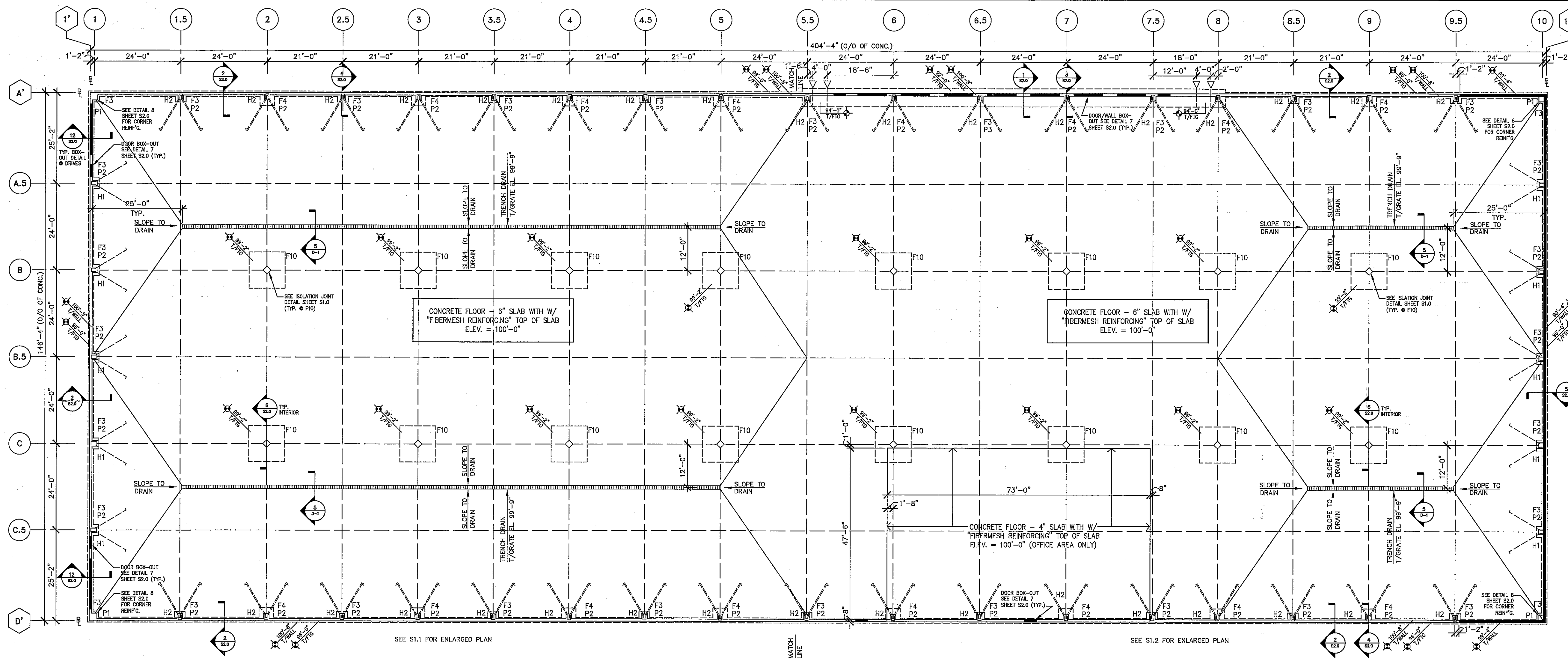
**FedEx Ground**  
This drawing is the property of FedEx Ground Package System, Inc. and must not be used in any other circumstance except in connection with our work.

**FED-EX GROUND**  
HANSON ROAD  
MADISON, WI

|              |          |
|--------------|----------|
| DATE:        |          |
| NO.          |          |
| REVISION:    |          |
| SHEET TITLE: | DETAILS  |
| JOB NUMBER:  | 13002    |
| DESIGNED BY: | DN       |
| DRAWN BY:    | MW       |
| CHECKED BY:  | DN       |
| DATE:        | 07.22.13 |
| SHEET NO.:   |          |

**RECORD DRAWING**  
02.20.15

**A6.4**



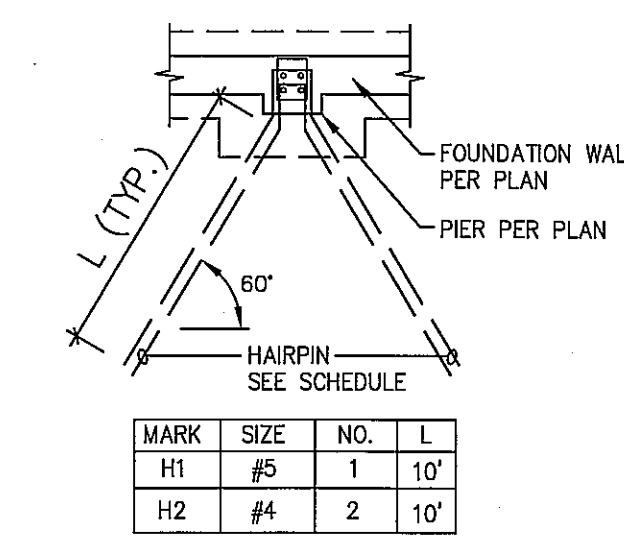
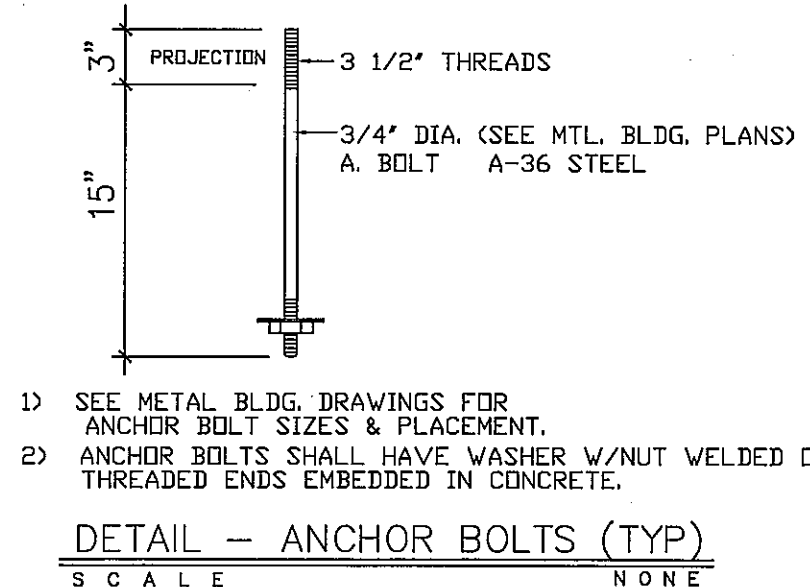
**OVERALL FOUNDATION PLAN**  
SCALE: 1/16" = 1'-0"

| FOOTING SCHEDULE |                     |  |
|------------------|---------------------|--|
| MARK             | SIZE (LxWxD)        | REINFORCING (EACH WAY)                       |
| F3               | 3'-0"x3'-0"x12"     | (4) #5 EA. WAY BOTTOM                        |
| F4               | 4'-0"x4'-0"x12"     | (4) #5 EA. WAY BOTTOM                        |
| F10              | 10'-0"x10'-0"x1'-6" | (7) #4 EA. WAY TOP<br>(10) #6 EA. WAY BOTTOM |

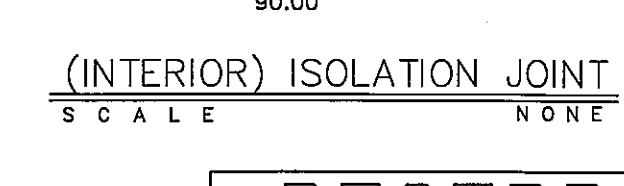
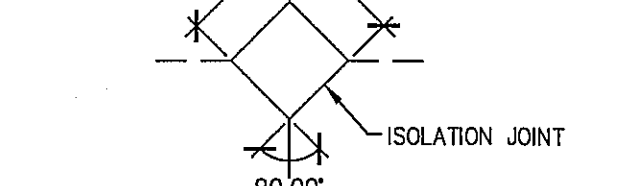
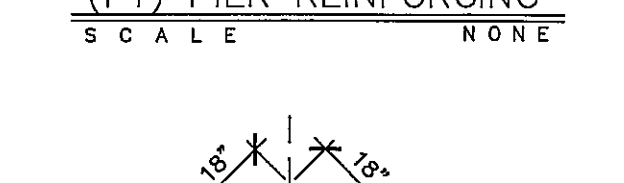
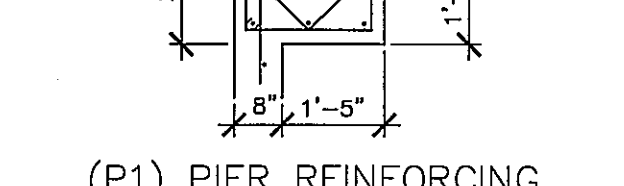
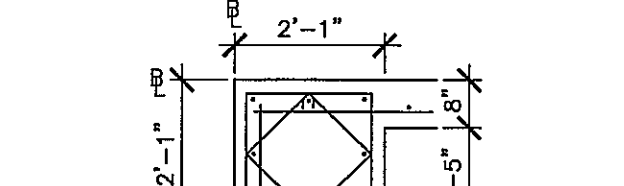
| CONCRETE PIER SCHEDULE |                   |             |           |   |
|------------------------|-------------------|-------------|-----------|---|
| MARK                   | T/PIER ELV., UND. | SIZE        |           | REMARKS   |
|                        |                   | WxL         | VERTICALS |   |
| P1                     | 100'-8"           | 2'-1"x2'-1" | (8) #6    | ADD'L #3 TIE 2" FROM TOP                          |
| P2                     | 100'-8"           | 2'-0"x1'-6" | (6) #6    | ADD'L #3 TIE 2" FROM TOP                          |
| P3                     | 100'-8"           | 2'-4"x1'-6" | (8) #6    | ADD'L #3 TIE 2" FROM TOP ONLY (1) LOCATION 6.5/A' |

| ANCHOR BOLT SCHEDULE |            |
|----------------------|------------|
| SIZE                 | EMBEDMENT  |
| 3/4" DIA.            | 15" EMBED. |

**NOTES:**  
 - TYPICAL FLOOR: 6" SLAB ON GRADE w/ FIBERMESH REINFORCING TOP OF SLAB ELV. 100'-0"  
 - FOR COLUMN & BASE PLATE SIZES, SEE MTL. BUILDING DRAWINGS.  
 - CJ = SLAB CONTROL JOINT OR CONSTRUCTION JOINT. REFER TO DTL. ON SHT S2.0  
 - FOR TYPICAL WALL CONSTRUCTION JOINT, SEE DTL. ON SHT S2.0  
 - FOR TYPICAL WALL CORNER DETAILS, REFER TO SHT S2.0  
 - SYMBOL INDICATES 2'-0" FOOTING STEP (SEE DETAIL 9 SHEET S2.0)  
 - PROVIDE VERTICAL CONTROL JOINTS IN FOUNDATION WALLS AT 30'-0" O.C. UNLESS NOTED OTHERWISE



| MARK | SIZE | NO. | L   |
|------|------|-----|-----|
| H1   | #5   | 1   | 10' |
| H2   | #4   | 2   | 10' |



**DESIGN LOADS**  
SEE PREENGINEERED BUILDING DRAWINGS BY VARCO PRUDEN BUILDING COMPANY (JOB# 13-8626).

**MATERIAL STRENGTHS**  
 CONCRETE (f'c @ 28 DAYS)  
 FOOTINGS..... 3,000 PSI  
 FOUNDATION WALLS..... 4,000 PSI  
 SLAB ON GRADE..... 4,000 PSI

**REINFORCING STEEL (fy)**  
 REBAR..... 60,000 PSI  
 WELDED WIRE FABRIC (WHEN REQ'D)..... 65,000 PSI

**STRUCTURAL STEEL**  
 ALL STEEL SHAPES..... 50,000 PSI  
 HOLLOW STRUCTURAL STEEL SHAPES..... 46,000 PSI  
 STEEL JOISTS..... 50,000 PSI  
 HIGH STRENGTH BOLTS..... ASTM A325-N  
 THREADED ANCHOR RODS..... ASTM F1554  
 WELDING ELECTRODES..... E70XX

**SOIL BEARING PRESSURE**..... 2,500 PSF  
SEE SOILS REPORT PERFORMED BY CGC TESTING

**GENERAL NOTES**

- DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PROVISIONS OF THE LATEST EDITION OF THE WISCONSIN COMMERCIAL BUILDING CODE.
- COORDINATE LOCATION OF DOOR OPENINGS EMBEDS, ETC. WITH ARCHITECTURAL DRAWINGS.
- VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS AS SHOWN ON THE DRAWINGS. NOTIFY THE ENGINEER WHEN DISCREPANCIES OR QUESTIONS ARISE.
- VERIFY SIZE AND LOCATION OF ALL ROOF, FLOOR, AND WALL OPENINGS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

**FOUNDATIONS AND EARTHWORK**

- CENTER COLUMN FOOTINGS ON COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
- WALL FOOTINGS ARE CENTERED ON FOUNDATION WALL UNLESS OTHERWISE NOTED.
- ALL FOOTINGS SHALL BEAR ON ORIGINAL, UNDISTURBED SOIL OR COMPACTED FILL AS DEFINED IN SOIL REPORT, BUT NOT HIGHER THAN THE MINIMUM DEPTH SHOWN ON DRAWINGS.
- REFER TO THE SOILS REPORT FOR DESCRIPTION OF SOILS.
- ALL STRUCTURAL STEEL BELOW SLAB ON GRADE SHALL HAVE A MINIMUM OF THREE INCHES CONCRETE PROTECTION ALL AROUND.
- ALL FOOTING TOP REINFORCEMENT SHALL BE ADEQUATELY SUPPORTED BY STEEL SUPPORTS FROM GRADE BELOW.
- SLAB ON GRADE SHALL BE UNDERLAIN BY A VAPOR BARRIER AND FOUR INCHES MINIMUM OF COARSE GRANULAR (COMPACTED) FILL MATERIAL.
- MAINTAIN GRAVEL THICKNESS, SLAB DEPTH, REINFORCEMENT, AND REINFORCEMENT POSITION AT DROPPED OR THICKENED SLAB ON GRADE.
- REINFORCE ALL SLABS ON GRADE WITH WELDED WIRE FABRIC AS DEFINED ON THE PLANS. REINFORCING TO BE SUPPORTED IN THE TOP THIRD OF THE SLAB UNLESS NOTED OTHERWISE.
- CONTRACTOR TO KEEP EXCAVATIONS DRY AND PROTECTED FROM FROST AT ALL TIMES DURING THE FOUNDATION CONSTRUCTION.
- NOTIFY ENGINEER IF NATURE OF SOIL AT DEPTHS SHOWN IS NOT SUITABLE FOR FOUNDATIONS.

**CAST IN PLACE CONCRETE**

- CONCRETE REINFORCING SHALL HAVE THE FOLLOWING MINIMUM PROTECTIVE COVER:  
 CONCRETE POURED TO EARTH OR GROUND..... 3"  
 CONCRETE EXPOSED TO EARTH OR WEATHER #6 TO #18 BARS..... 2"  
 #5 BAR AND SMALLER..... 1 1/2"  
 CONCRETE WITH INTERIOR EXPOSURE #14 AND #18 BARS..... 1 1/2"  
 #11 BAR AND SMALLER..... 3/4"  
 CONCRETE PIERS PRIMARY REINFORCEMENT, TIES, AND SPIRALS..... 1 1/2"
- LAP WELDED WIRE MESH 6 INCHES (6").
- NO CONDUITS, PIPES, DUCTS, OR FIXTURES SHALL BE PLACED IN CONCRETE COLUMNS, PIERS OR BEAMS (UNLESS SPECIFIC REVIEW AND APPROVAL IS MADE BY THE ENGINEER).
- SLEEVES, CONDUITS, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED SO THAT THEY ARE NOT CLOSER THAN THREE DIAMETERS ON CENTER AND THEY DO NOT DISPLACE REINFORCING.
- DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, BEAMS, COLUMNS OR WALLS WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER.
- BARs SHALL BE SPLICED PER DETAILS WHERE PROVIDED. OTHERWISE BARs SHALL BE CLASS 'B' LAP SPLICED IN LONGEST CONVENIENT LENGTHS WITH ADJACENT LAPS STAGGERED 3'-0" MINIMUM. BARs SHALL BE CONTACT SPLICED OR SPACED A MINIMUM DISTANCE APART OF THE LESSER OF 1/5TH THE LAP LENGTH OR SIX INCHES.
- CLEAR SPACING BETWEEN REBARS (UNLESS SHOWN TO BE CONTACT LAP SPLICED) SHALL BE A MINIMUM OF 1 BAR DIAMETER, 1 1/2", OR 1 1/3 TIMES THE DIAMETER OF THE AGGREGATE, WHICHEVER IS GREATER.
- EACH LAYER OF STEEL SHALL BE PLACED AS CLOSE TO EACH FACE AS POSSIBLE, MEETING MINIMUM COVER REQUIRED ABOVE.

- EMBEDMENT LENGTHS, COMPRESSION SPLICE LENGTHS AND LAP LENGTHS FOR TENSION SPLICES CLASS 'A' AND 'B' SHALL CONFORM TO THOSE OF CRSI 'REINFORCEMENT ANCHORAGE AND SPLICES' CURRENT EDITION.
- PROVIDE COLUMN OR WALL DOWELS OF THE SAME SIZE AND NUMBER AS THE RESPECTIVE COLUMNS OR WALL REINFORCING.
- ALL HOOKS NOT NOTED SHALL BE ACI STANDARD HOOKS.
- CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE.
- SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. SAWCUTTING SHALL BE DONE AS SOON AS SAWCUT WILL NOT RAVEL CONCRETE OR WITHIN 16 HOURS MAXIMUM INITIAL POURING OPERATION. MAXIMUM SIZE OF PANELS 15'x15'. GENERALLY, JOINTS SHALL OCCUR ON COLUMN CENTERLINES.
- CONTROL AND CONSTRUCTION JOINTS FOR SLAB ON GRADE MUST BE REVIEWED BY THE ENGINEER PRIOR TO THE PLACING OF CONCRETE.
- PROVIDE 2 #5 BARS AROUND ALL OPENINGS AND 2 #5 DIAGONALLY AT ALL OPENING CORNERS UNLESS OTHERWISE SPECIFIED. EXTEND 2'-6" PAST OPENING, TYPICAL.
- CONCRETE PIERS SHALL BE POURED MONOLITHICALLY WITH CONCRETE WALLS.
- ALLOW AT LEAST 24 HOURS BETWEEN POURING ADJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS.
- HORIZONTAL WALL REINFORCEMENT SHALL BE MADE CONTINUOUS AT ALL CORNERS OR CORNER BARS PROVIDED.
- ANCHOR BOLTS SHALL BE SET AND CONCRETE BEARING SURFACE FOR COLUMNS SHALL BE FINISHED TO THE FOLLOWING TOLERANCE:  
 1. ELEVATION OF CONCRETE SURFACE PLUS OR MINUS 3/8",  
 2. ELEVATION TOP OF ANCHOR BOLTS PLUS 1" OR MINUS 3/8",  
 3. OUT OF POSITION OF ANCHOR BOLTS PLUS OR MINUS 1/8".

| NO. | REVISION  | DATE       |
|-----|---|------------|
| 1   | REVISE FLOOR SLAB TO REFLECT FIBERMESH REINFORCING # 4' OFFICE SLAB | 07.23.2013 |

SHEET TITLE: FOUNDATION PLAN

JOB NUMBER: 13002

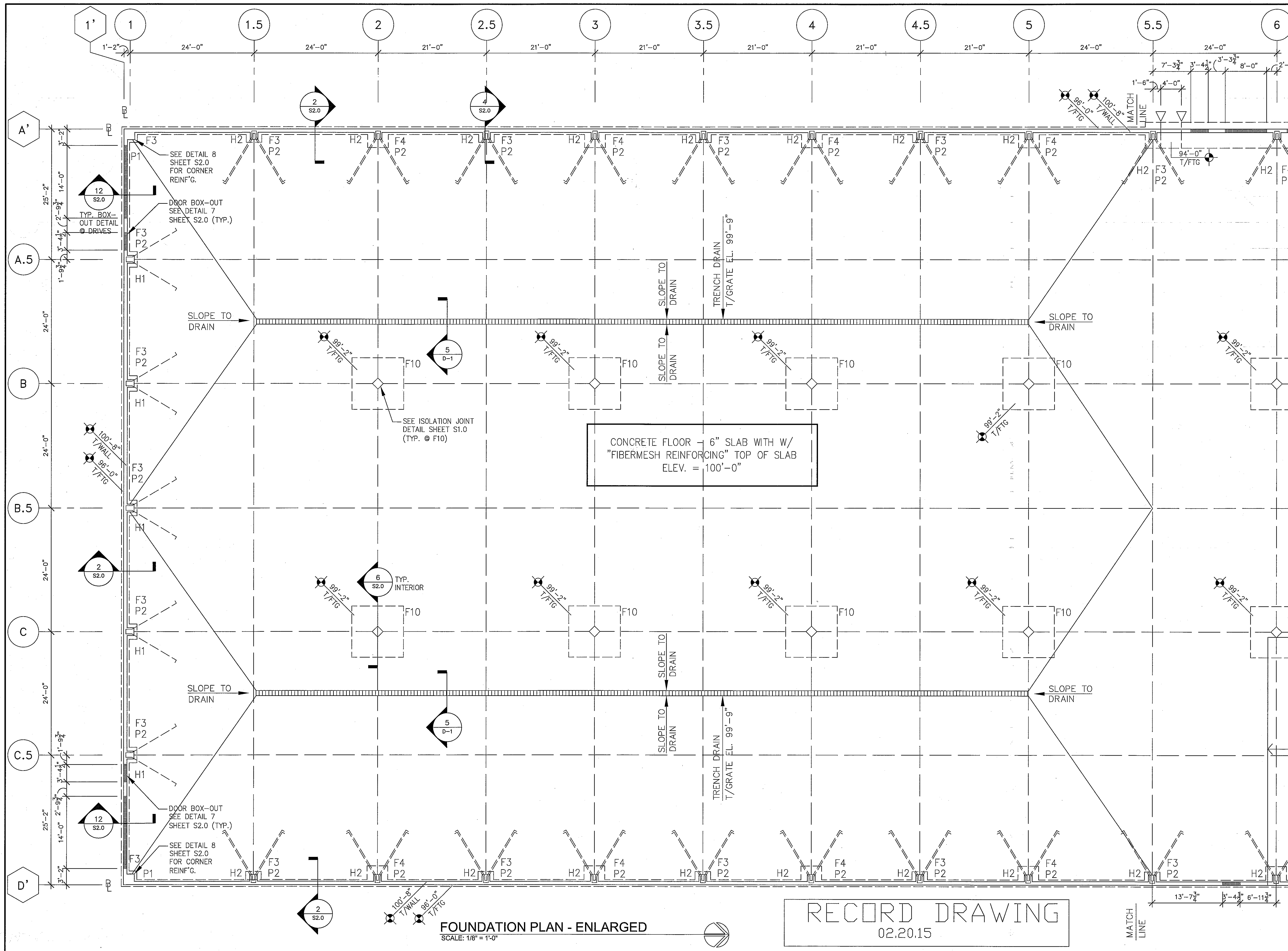
DESIGNED BY: TC (FOUNDATION)

DRAWN BY: TC (FOUNDATION)

CHECKED BY: WV (STRUCTURAL INTG.)

DATE: 06.21.2013

SHEET NO:



**RUEDEBUSCH  
DEVELOPMENT &  
CONSTRUCTION**  
DEVELOPMENT - CONSTRUCTION - BROKERAGE - CONSULTING  
4605 DOVETAIL DRIVE MADISON, WI 53704  
PHONE 608.249.2012 FAX 608.249.2052

**FedEx  
Ground**  
FACILITIES & MATERIAL  
HANDLING SYSTEMS  
1000 FedEx Drive  
Moon Township, PA 15108  
412.268-1000  
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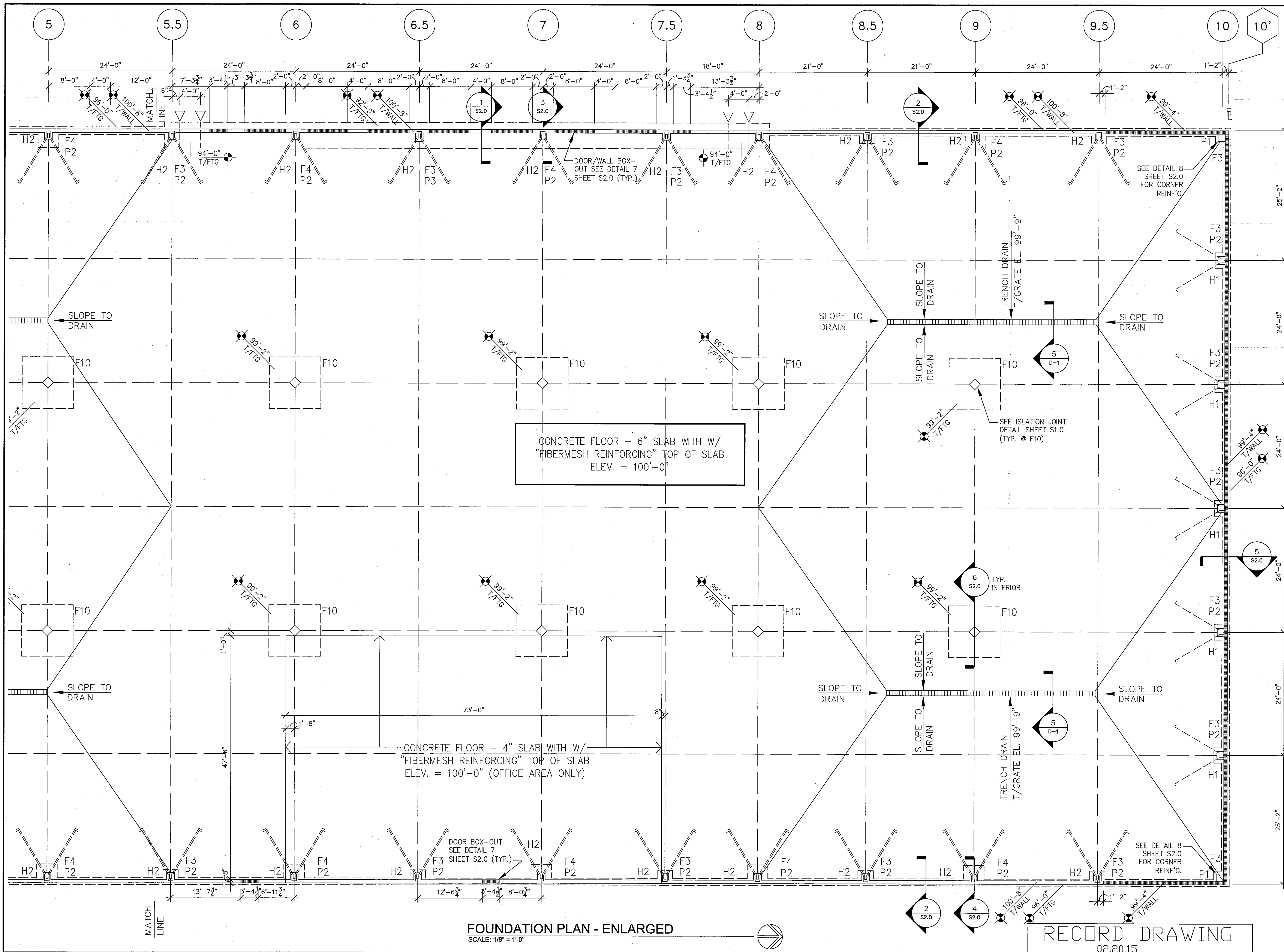
**FedEx GROUND  
HOME DELIVERY**  
HANSON ROAD  
MADISON, WISCONSIN 53704

| NO. | REVISION  | DATE       |
|-----|---|------------|
| 1   | REVISE FLOOR SLAB TO REFLECT "FIBERMESH" REINFORCING & 4" OFFICE SLAB | 07.23.2013 |

|  |                       |
|--|-----------------------|
| SHEET TITLE:<br>FOUNDATION PLAN - ENLARGED |                       |
| JOB NUMBER:                                | 13002                 |
| DESIGNED BY:                               | TC (FOUNDATION)       |
| DRAWN BY:                                  | TC (FOUNDATION)       |
| CHECKED BY:                                | WV (STRUCTURAL INTG.) |
| DATE:                                      | 06.21.2013            |
| SHEET NO.:                                 | <b>S1.1</b>           |

**RECORD DRAWING**  
02.20.15

**FOUNDATION PLAN - ENLARGED**  
SCALE: 1/8" = 1'-0"



**FOUNDATION PLAN - ENLARGED**  
SCALE: 1/8" = 1'-0"

**RECORD DRAWING**  
02.20.15

**RUEDEBUSCH  
DEVELOPMENT &  
CONSTRUCTION**  
DEVELOPMENT • CONSTRUCTION • BROKERAGE • CONSULTING  
4605 DOVETAIL DRIVE MADISON, WI 53704  
PHONE 608-249-2012 FAX 608-249-2032

**FedEx  
Ground**  
FACILITIES & MATERIAL  
HANDLING SYSTEMS  
1000 FedEx Drive  
Madison, Wisconsin, WI 53708  
412-268-1000

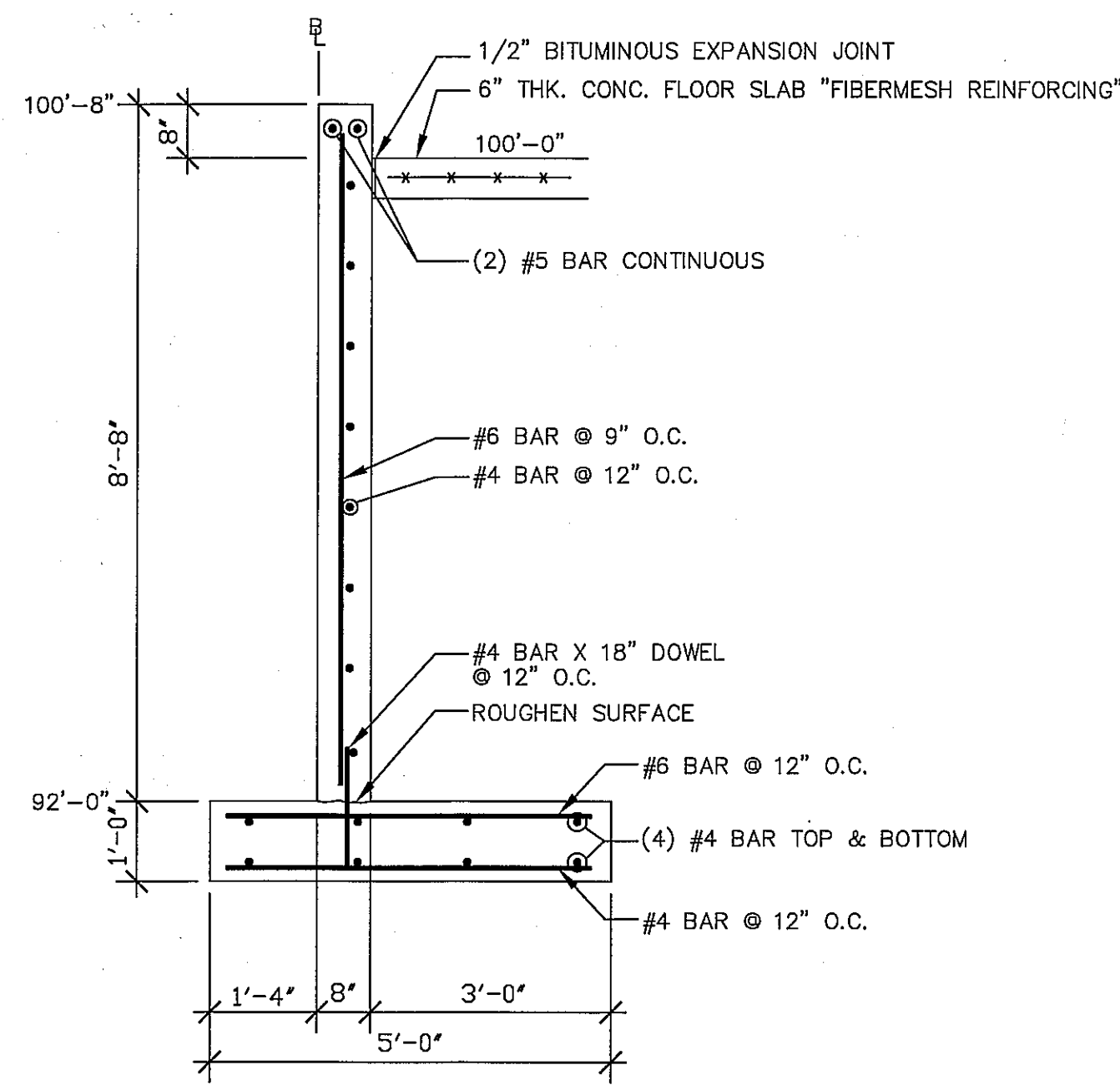
**FedEx GROUND  
HOME DELIVERY**  
HANSON ROAD  
MADISON, WISCONSIN 53704

| NO. | REVISION   | DATE       |
|-----|--|------------|
| 1   | REVISE FLOOR SLAB TO REFLECT "FIBERMESH" REINFORCING & 4" OFFICE SLAB<br>REMOVE WALK DOOR BETWEEN 7.5 AND 9 ALONG D' | 07.23.2013 |

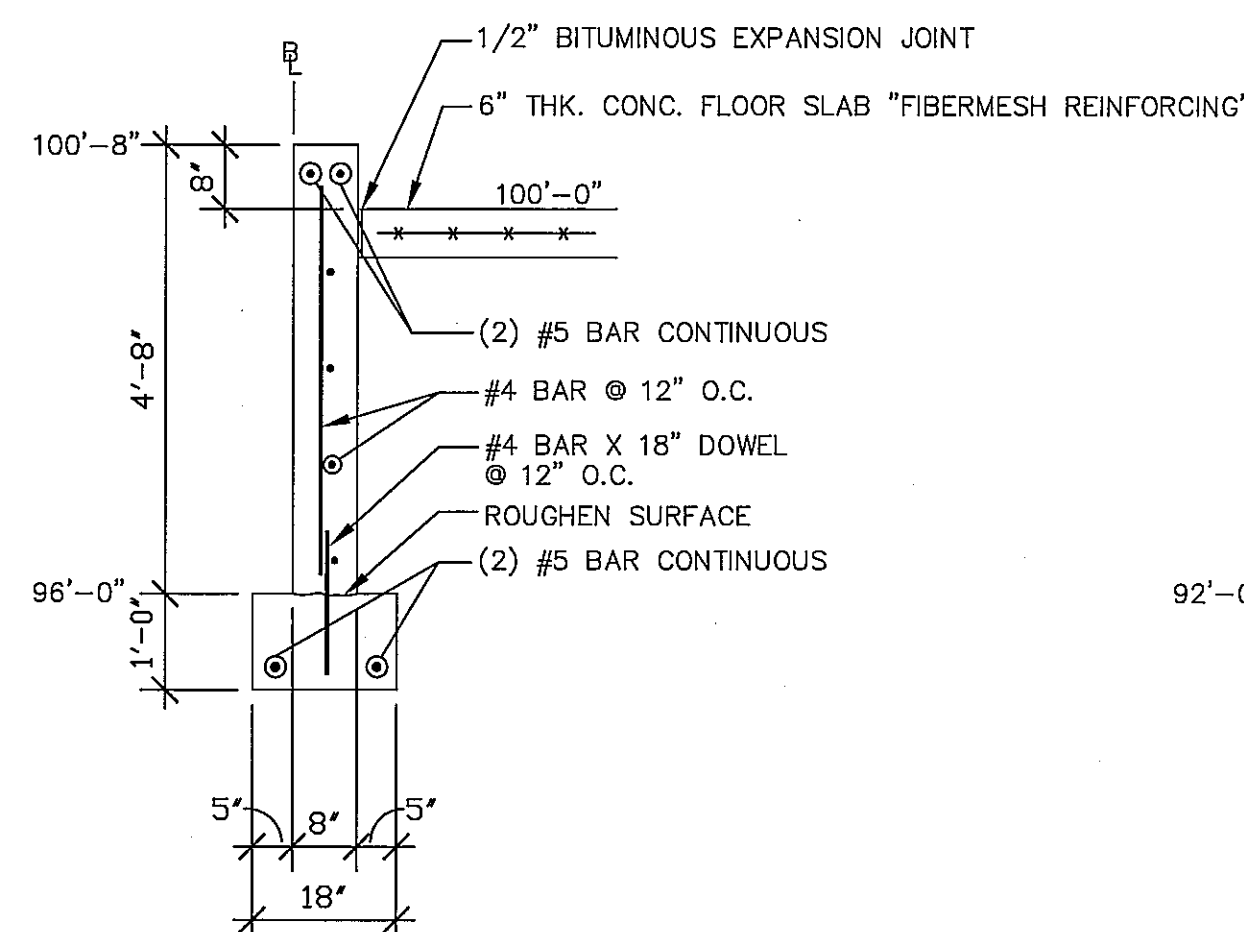
SHEET TITLE:  
FOUNDATION PLAN - ENLARGED

JOB NUMBER: 13002  
DESIGNED BY: TC (FOUNDATION)  
DRAWN BY: TC (FOUNDATION)  
CHECKED BY: WW (STRUCTURAL INTG.)  
DATE: 06.21.2013  
SHEET NO:

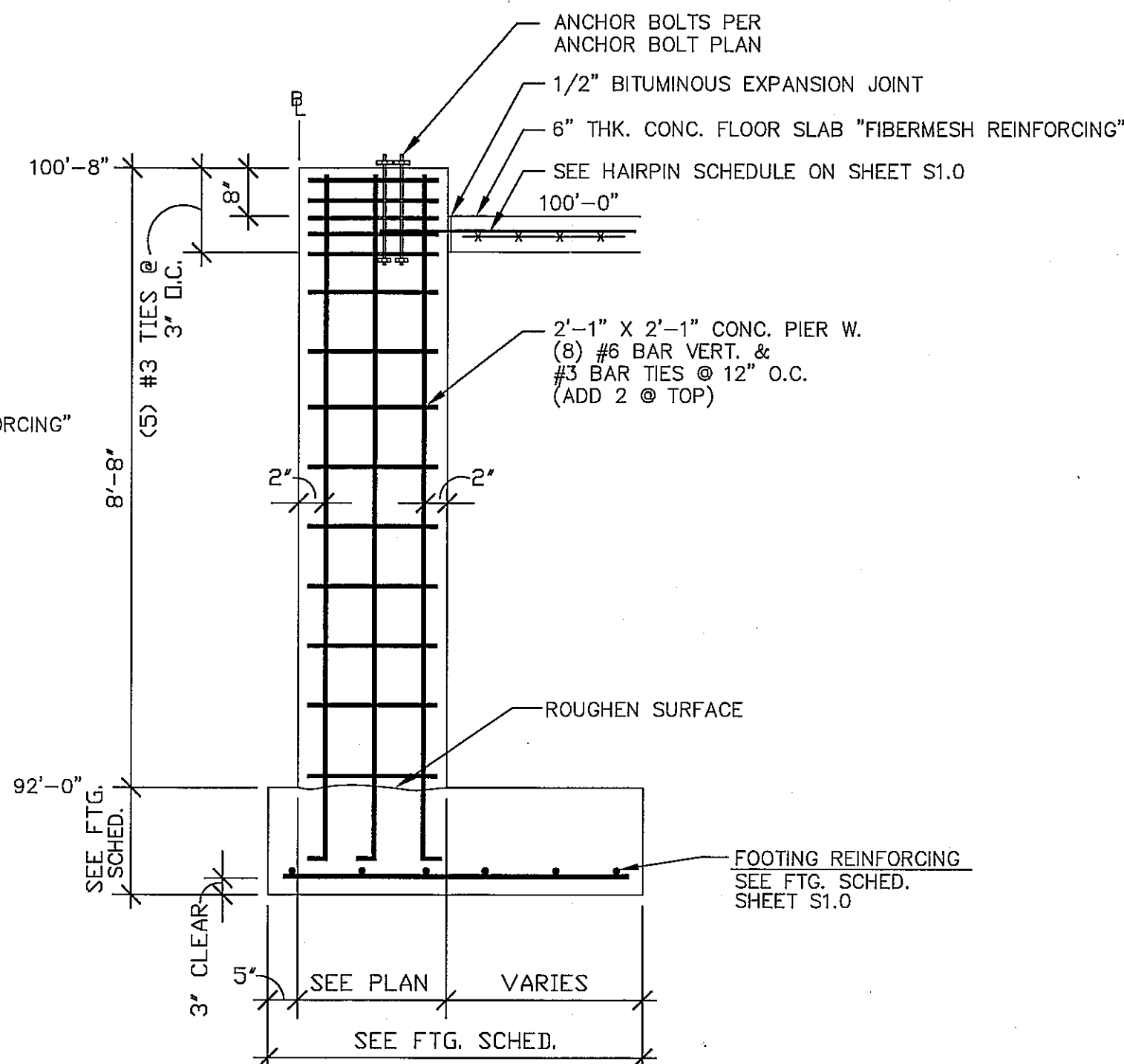
**S1.2**



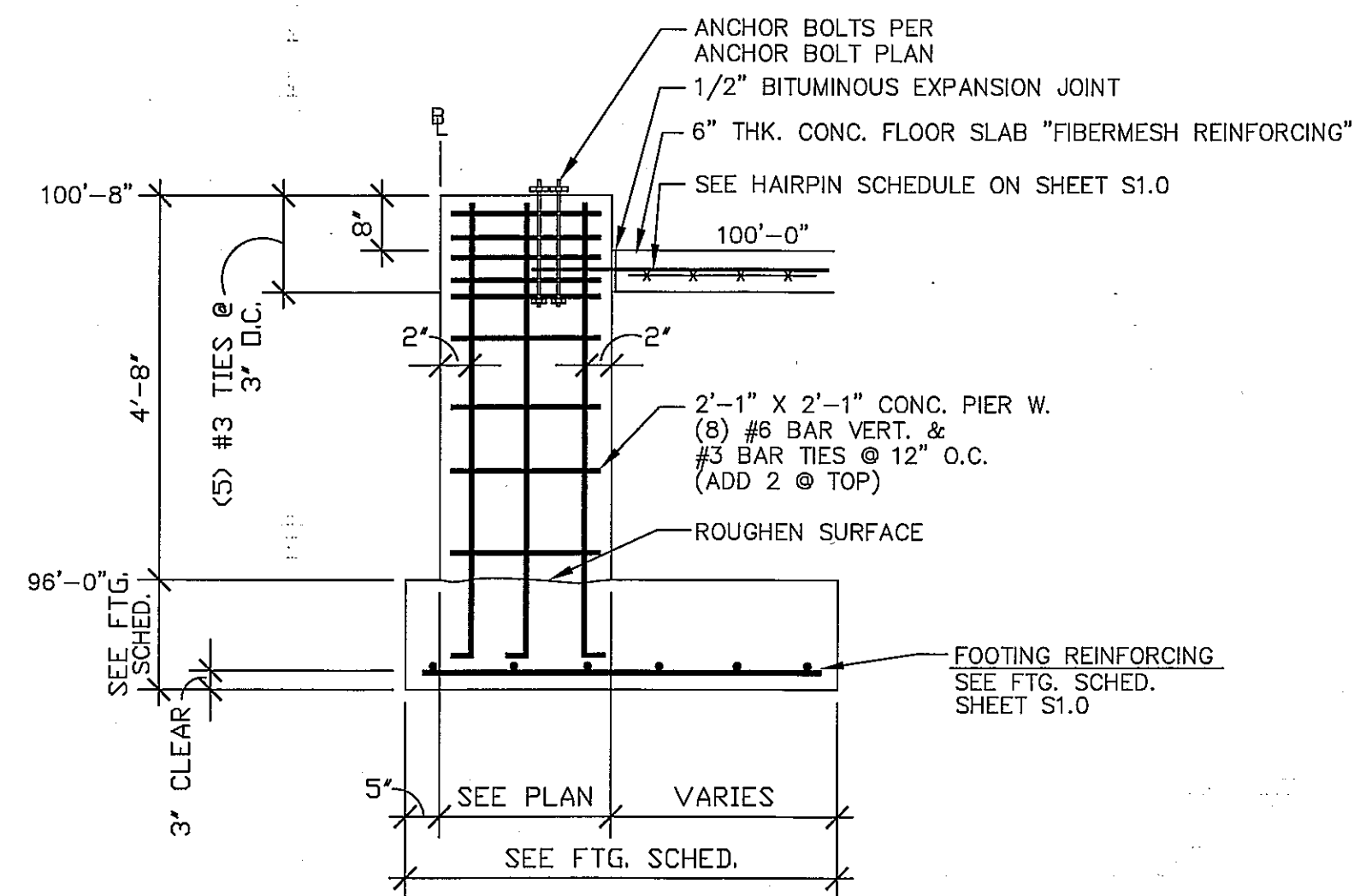
1 8" FOUNDATION WALL  
S2.0 SCALE: 1/2" = 1'-0"



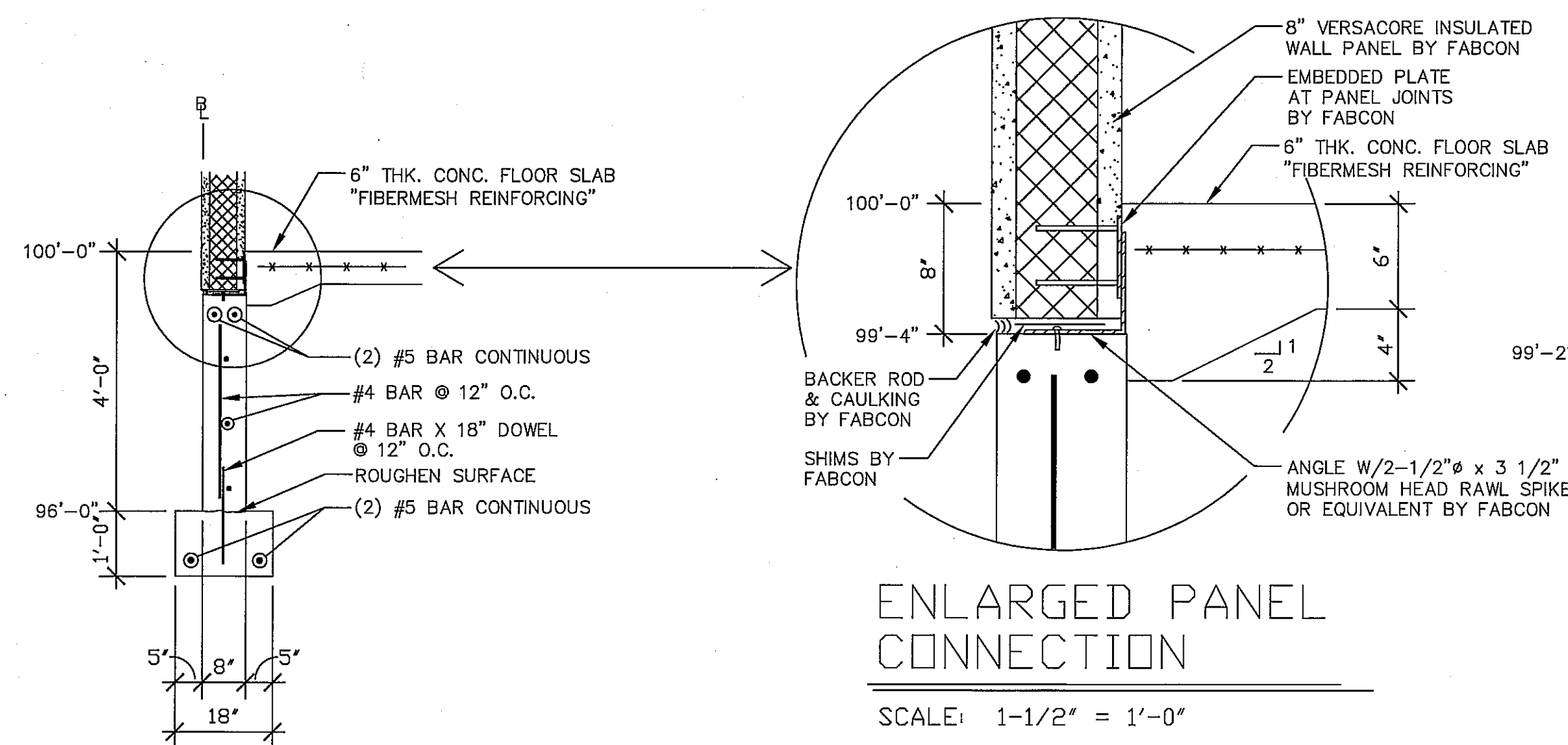
2 8" FOUNDATION WALL  
S2.0 SCALE: 1/2" = 1'-0"



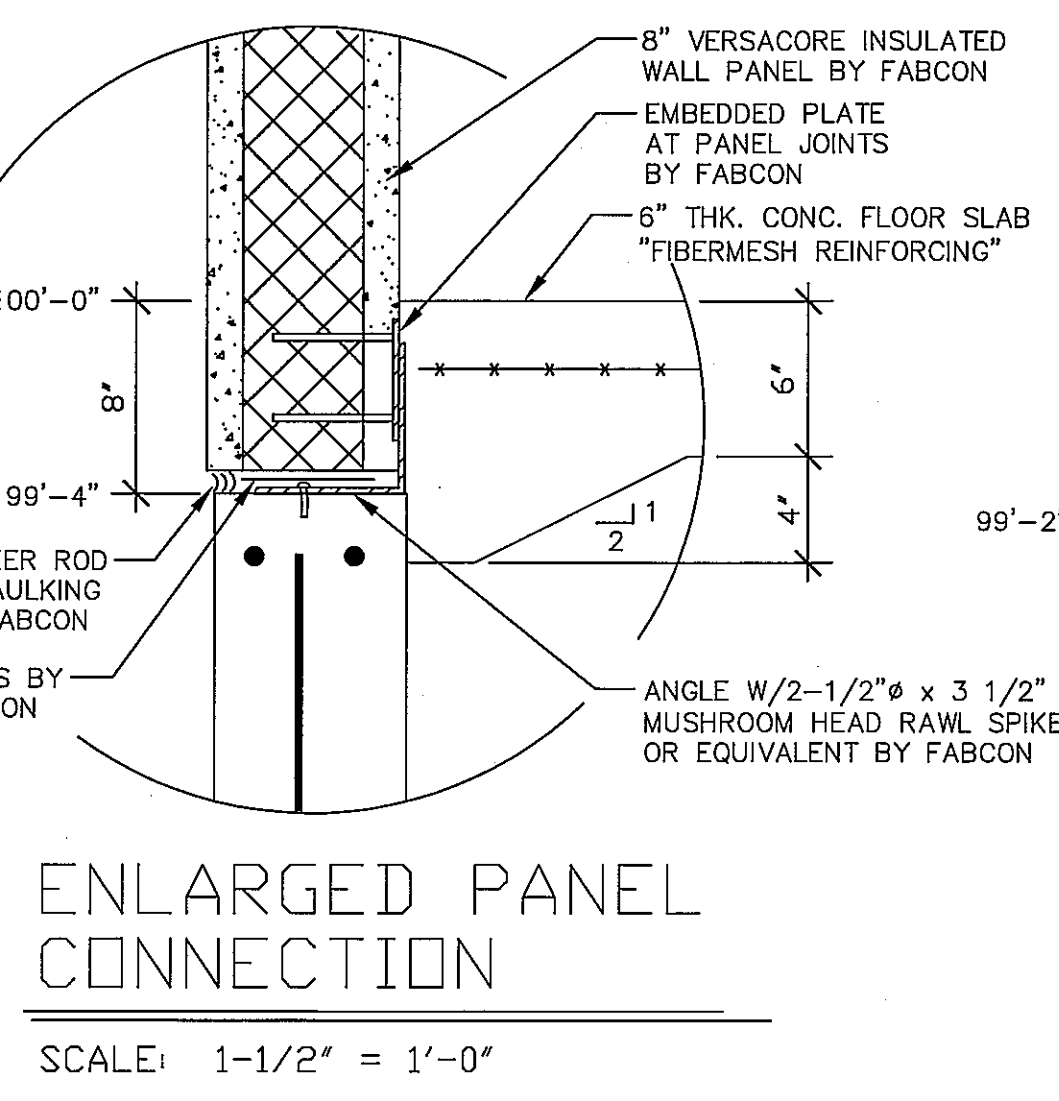
3 COLUMN PIER DETAIL  
S2.0 SCALE: 1/2" = 1'-0"



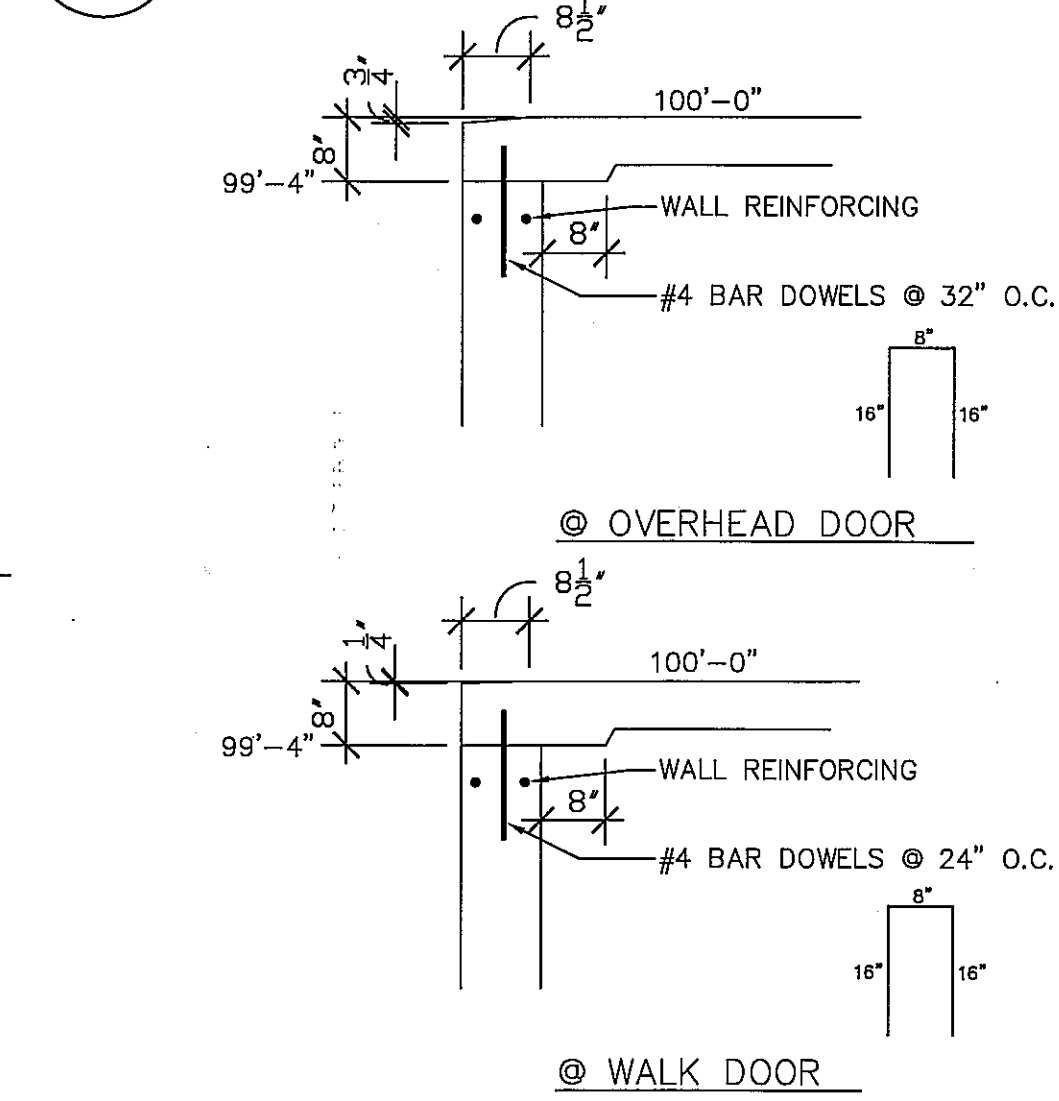
4 COLUMN PIER DETAIL  
S2.0 SCALE: 1/2" = 1'-0"



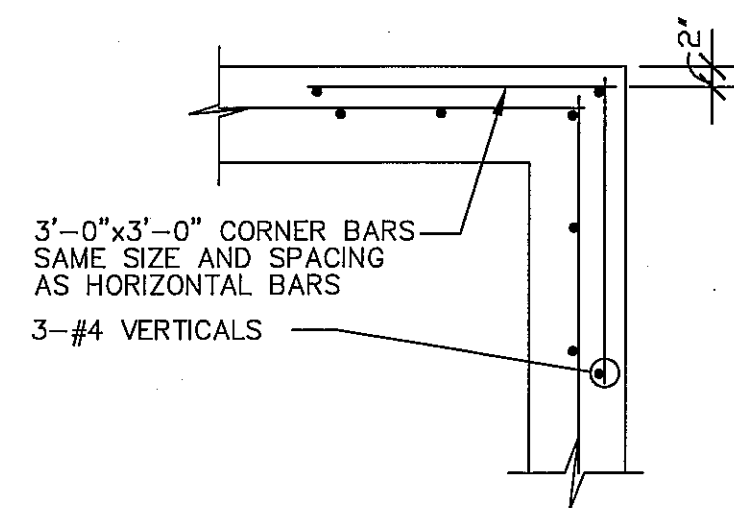
5 8" FOUNDATION WALL  
S2.0 SCALE: 1/2" = 1'-0"



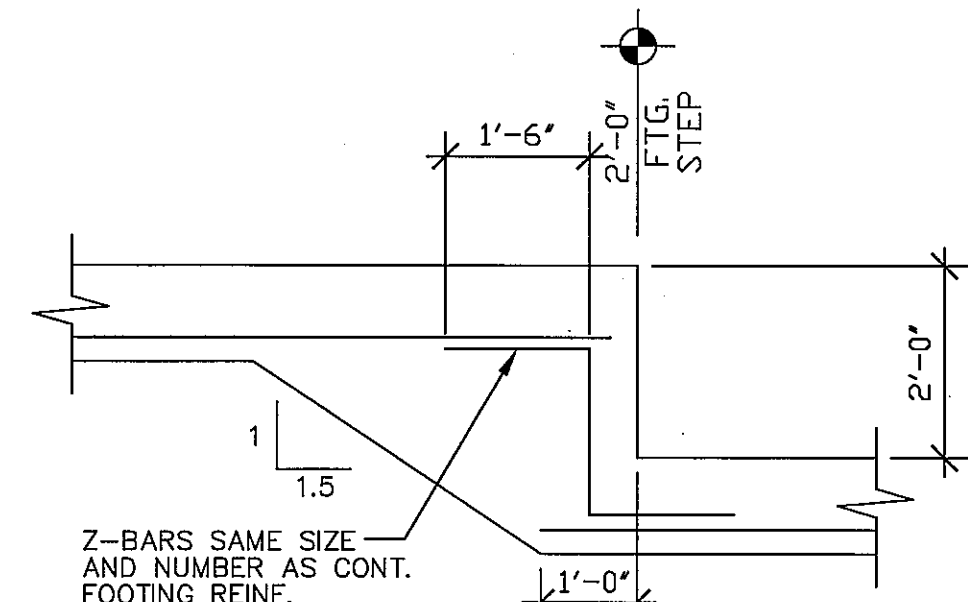
6 INTERIOR FOOTING  
S2.0 SCALE: 1/2" = 1'-0"



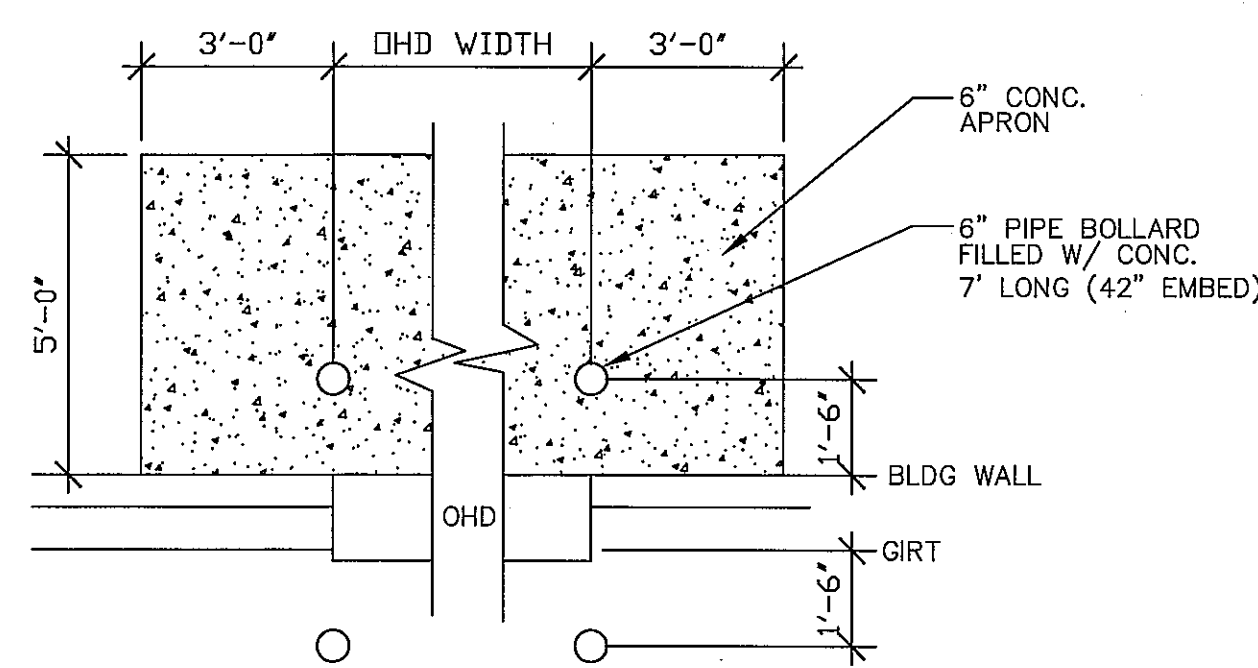
7 WALL BOX-OUT DETAILS  
S2.0 SCALE: 1/2" = 1'-0"



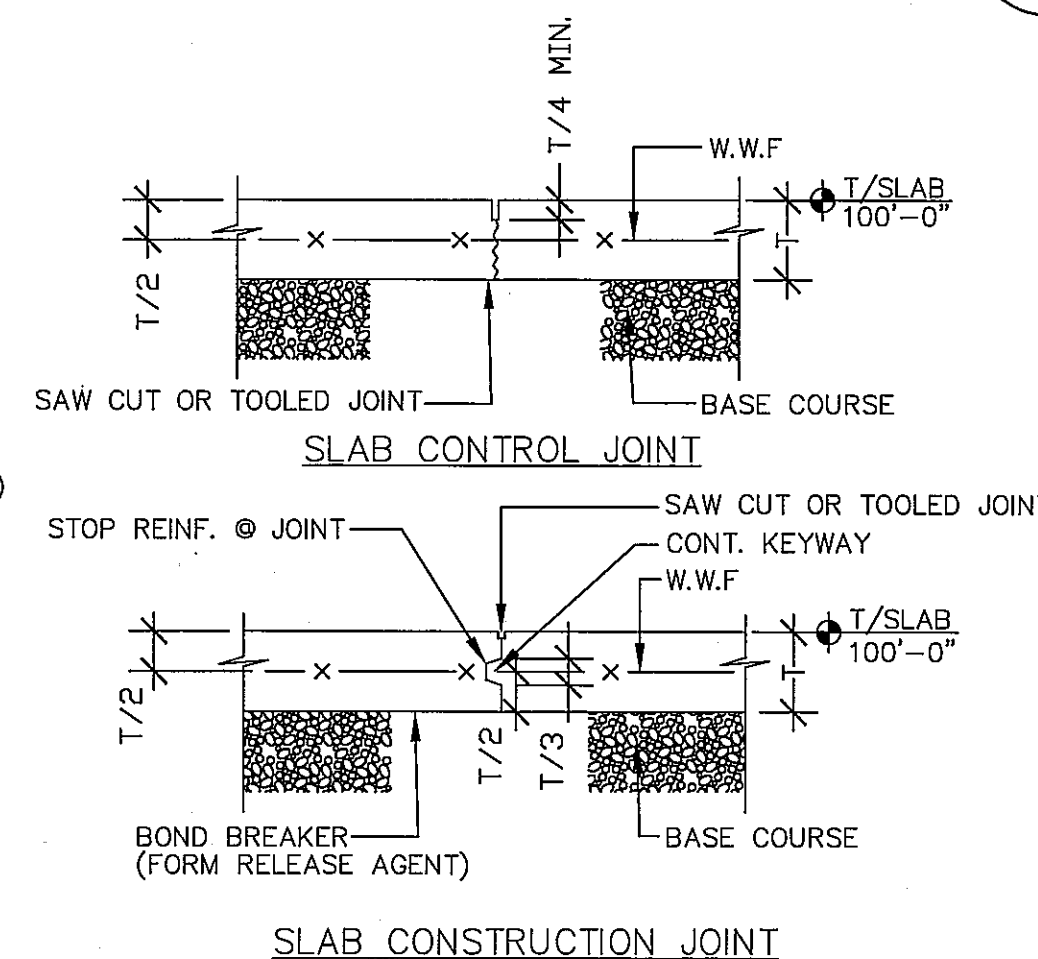
8 WALL CORNER  
S2.0 SCALE: 1/2" = 1'-0"



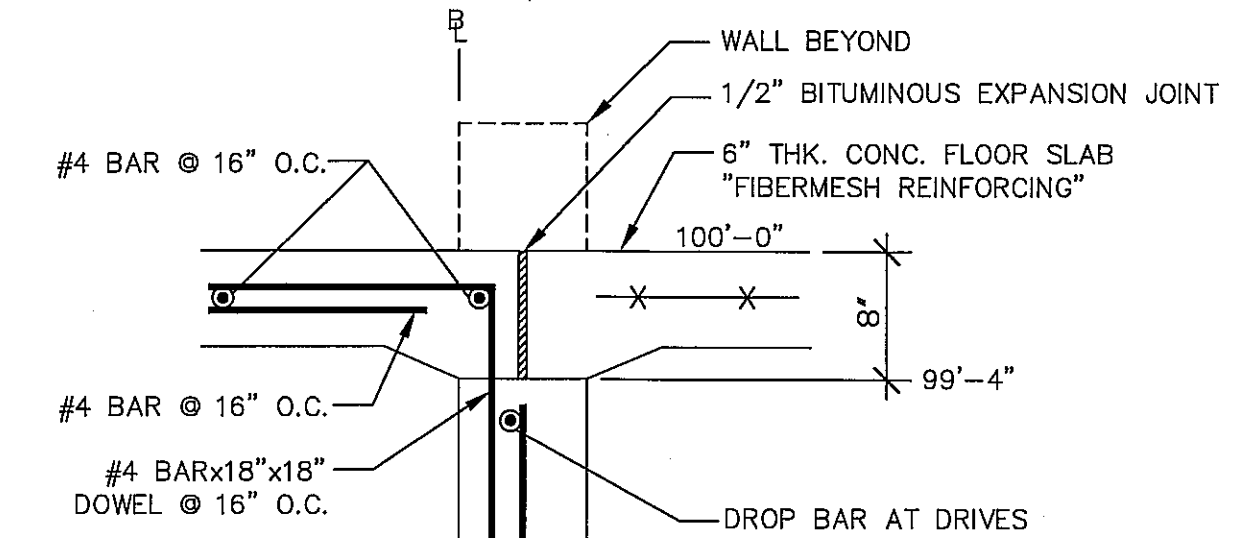
9 FOOTING STEP  
S2.0 SCALE: 1/2" = 1'-0"



10 PLAN @ O.H. DOOR  
S2.0 SCALE: 1/2" = 1'-0"



11 SLAB JOINT SECTIONS  
S2.0 SCALE: 1/2" = 1'-0"

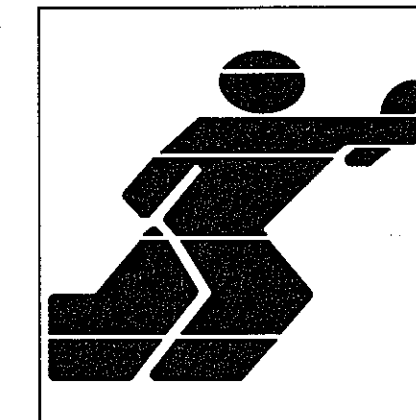


12 FOUNDATION WALL @ DRIVES  
S2.0 SCALE: 1" = 1'-0"

RECORD DRAWING  
02.20.15

| NO. | REVISION  | DATE       |
|-----|---|------------|
| 1   | REVISE FLOOR SLAB TO REFLECT FIBERMESH REINFORCING & #4 OFFICE SLAB | 07.23.2013 |

|              |                       |
|--------------|-----------------------|
| JOB NUMBER:  | 13002                 |
| DESIGNED BY: | TC (FOUNDATION)       |
| DRAWN BY:    | TC (FOUNDATION)       |
| CHECKED BY:  | WV (STRUCTURAL INTG.) |
| DATE:        | 06.21.2013            |
| SHEET NO.:   |                       |



MONONA PLUMBING  
AND FIRE PROTECTION, INC.

PLUMBING - FIRE PROTECTION - SERVICE - CONSULTING

3128 WATFORD WAY  
MADISON, WISCONSIN 53713

TEL. (608) 273-4556  
FAX. (608) 273-8492

MPPF NO. 13073P

RECORD DRAWINGS

| DATE     | ISSUANCE/REVISIONS         | SYMBOL |
|----------|----------------------------|--------|
| 9/8/2013 | STATE PLUMBING PLAN REVIEW |        |

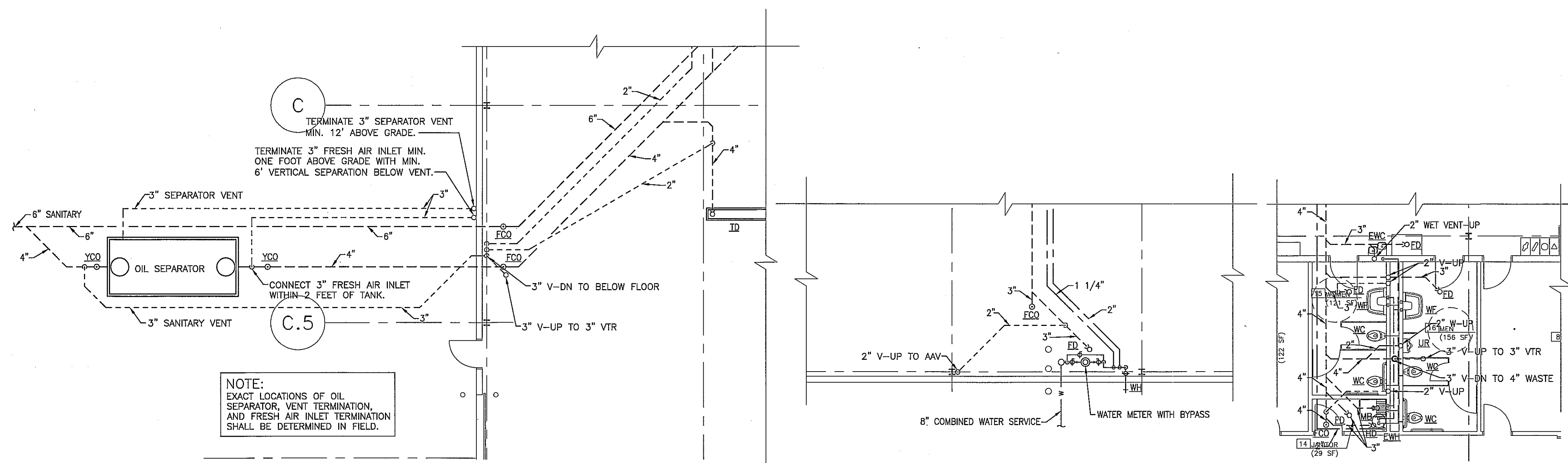
FED-EX GROUND  
HANSON ROAD  
MADISON, WI

DRAWING TITLE  
**PLUMBING PLANS**

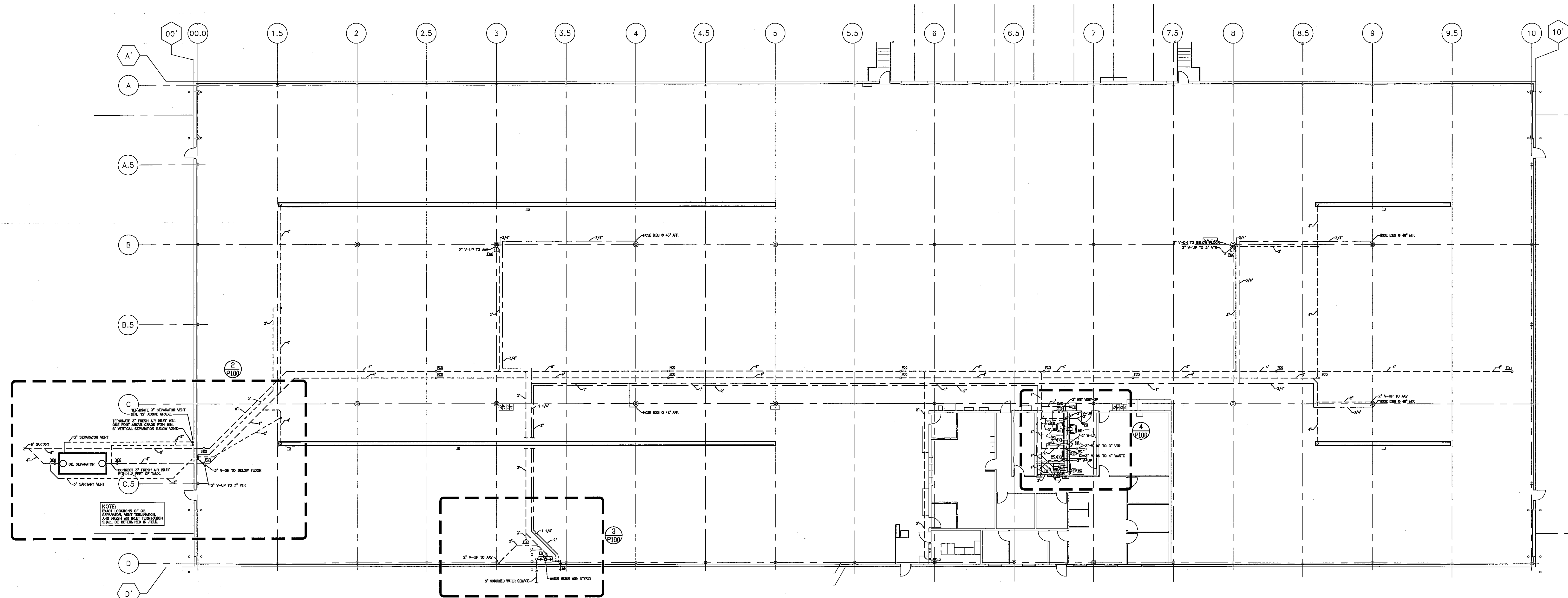
DRAWN BY:  
**BILL P**

DRAWING NUMBER:  
**P100**

| PLUMBING LEGEND |          |                                |
|-----------------|----------|--------------------------------|
| SYMBOL          | ABBR.    | DESCRIPTION                    |
| ---             | CW       | COLD WATER PIPING              |
| ---             | CS       | COLD SOFT WATER PIPING         |
| ---             | CW       | COLD WATER PIPING BELOW GROUND |
| ---             | HW       | HOT WATER PIPING               |
| ---             | HWR      | HOT WATER PIPING BELOW GROUND  |
| ---             | W        | WASTE PIPING BELOW GROUND      |
| ---             | V        | VENT PIPING ABOVE GROUND       |
| ---             | UP       | PIPING UP                      |
| ---             | DN       | PIPING DOWN                    |
| ---             | FCO      | FLOOR CLEANOUT                 |
| ---             |          | BALL VALVE                     |
| ---             |          | FIXTURE UNIT TAG               |
| ---             | I.E.     | INVERT ELEVATION               |
| ---             | HB / WH  | HOSE BIBB / WALL HYDRANT       |
| ---             | FD       | FLOOR DRAIN                    |
| ---             |          | ISOMETRIC TAG                  |
| ---             | EWH      | ELECTRIC WATER HEATER          |
| ---             | WC       | WATER CLOSET                   |
| ---             | UR       | URINAL                         |
| ---             | LAV / L- | LAVATORY                       |
| ---             | WF       | WASH FOUNTAIN                  |
| ---             | MB       | MOP BASIN                      |
| ---             | EWC      | ELECTRIC WATER COOLER          |
| ---             | AAV      | AIR ADMITTANCE VALVE           |
| ---             | TD       | TRENCH DRAIN                   |

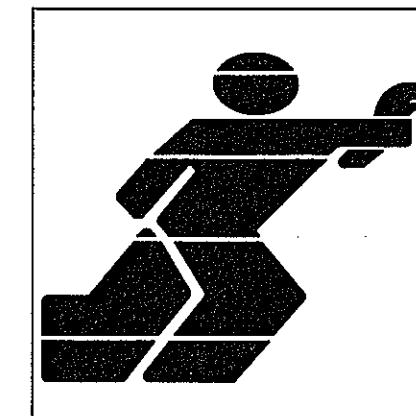


**2 WASTE & VENT** 1/8" = 1'-0" NORTH  
**3 WATER METER** 1/8" = 1'-0" NORTH  
**4 TOILET ROOMS** 1/8" = 1'-0" NORTH



**1 PLUMBING PLAN** 1/16" = 1'-0" NORTH

| PLUMBING SHEET INDEX |                                 |
|----------------------|---------------------------------|
| P100                 | PLUMBING PLANS                  |
| P200                 | WASTE AND VENT PIPING ISOMETRIC |
| P300                 | WATER PIPING ISOMETRIC          |



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AND FIRE PROTECTION, INC

PLUMBING - FIRE PROTECTION - SERVICE - CONSULTING

3128 WATFORD WAY  
MADISON, WISCONSIN 53713

TEL. (608) 278-4556  
FAX. (608) 278-8482

MFPF NO. 13073P

RECORD DRAWINGS

| DATE      | ISSUANCE/REVISIONS         | SYMBOL |
|-----------|----------------------------|--------|
| 9/18/2013 | STATE PLUMBING PLAN REVIEW |        |

FED-EX GROUND  
HANSON ROAD  
MADISON, WI

DRAWING TITLE

WASTE AND VENT  
PIPING ISOMETRIC

DRAWN BY

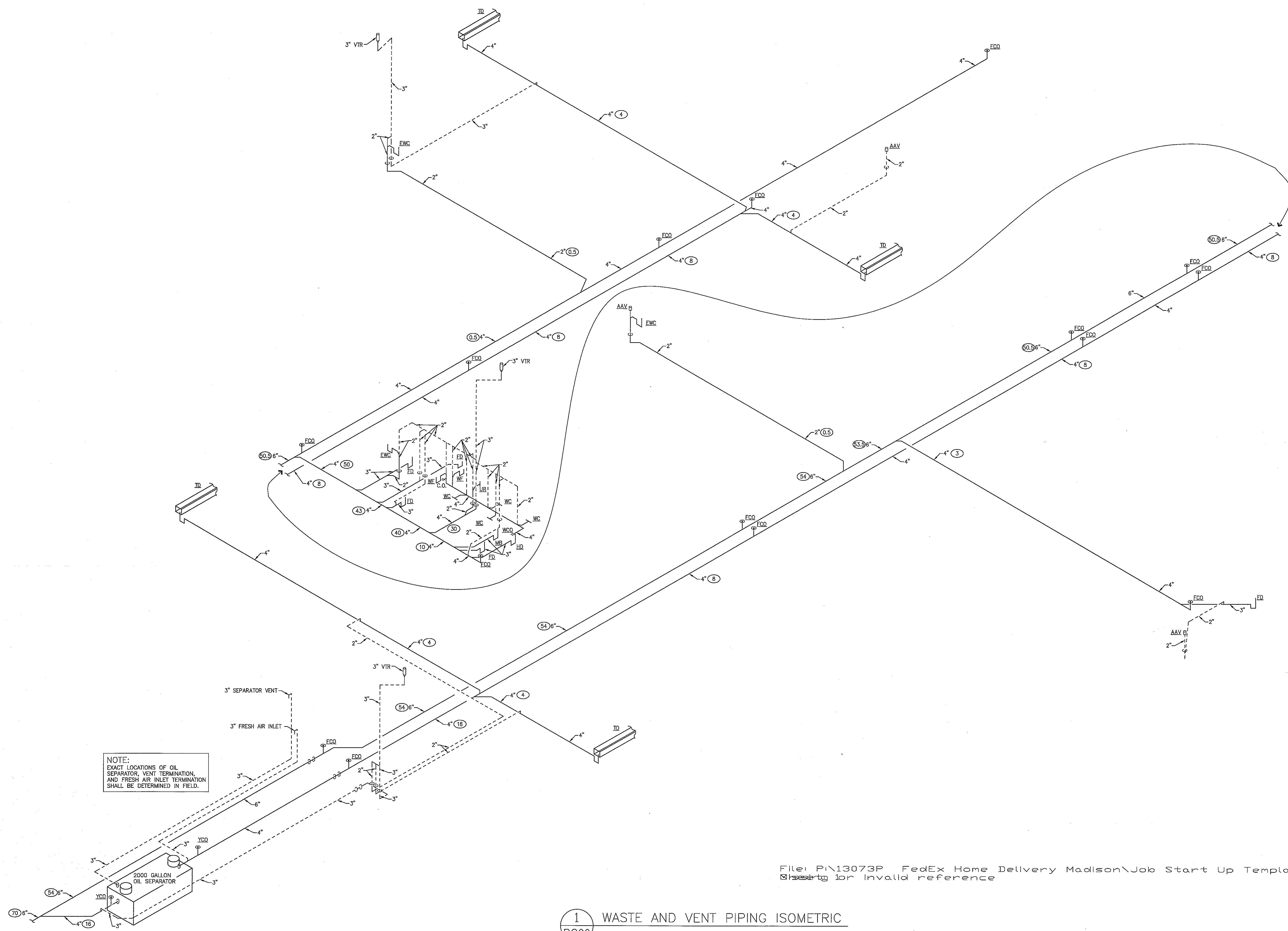
BILL P

DRAWING NUMBER

P200

CHECKED BY

--



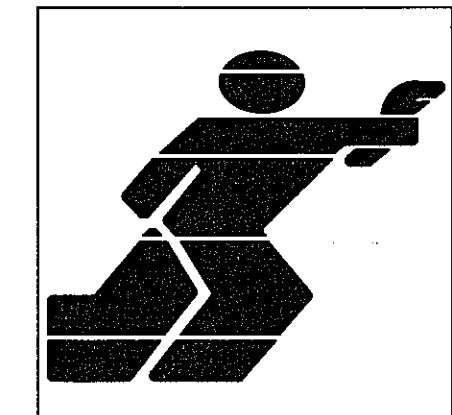
NOTE:  
EXACT LOCATIONS OF OIL  
SEPARATOR, VENT TERMINATION,  
AND FRESH AIR INLET TERMINATION  
SHALL BE DETERMINED IN FIELD.

2000 GALLON  
OIL SEPARATOR

File: P:\13073P FedEx Home Delivery Madison\Job Start Up Template\13073P.dwg  
Sheet 1 of 1 for invalid reference

1 WASTE AND VENT PIPING ISOMETRIC  
P200 NTS





MONONA PLUMBING  
AND FIRE PROTECTION, INC

PLUMBING - FIRE PROTECTION - SERVICE - CONSULTING

3128 WATFORD WAY  
MADISON, WISCONSIN 53713

TEL. (608) 273-4556  
FAX. (608) 273-8492

MPPP NO. 13073P

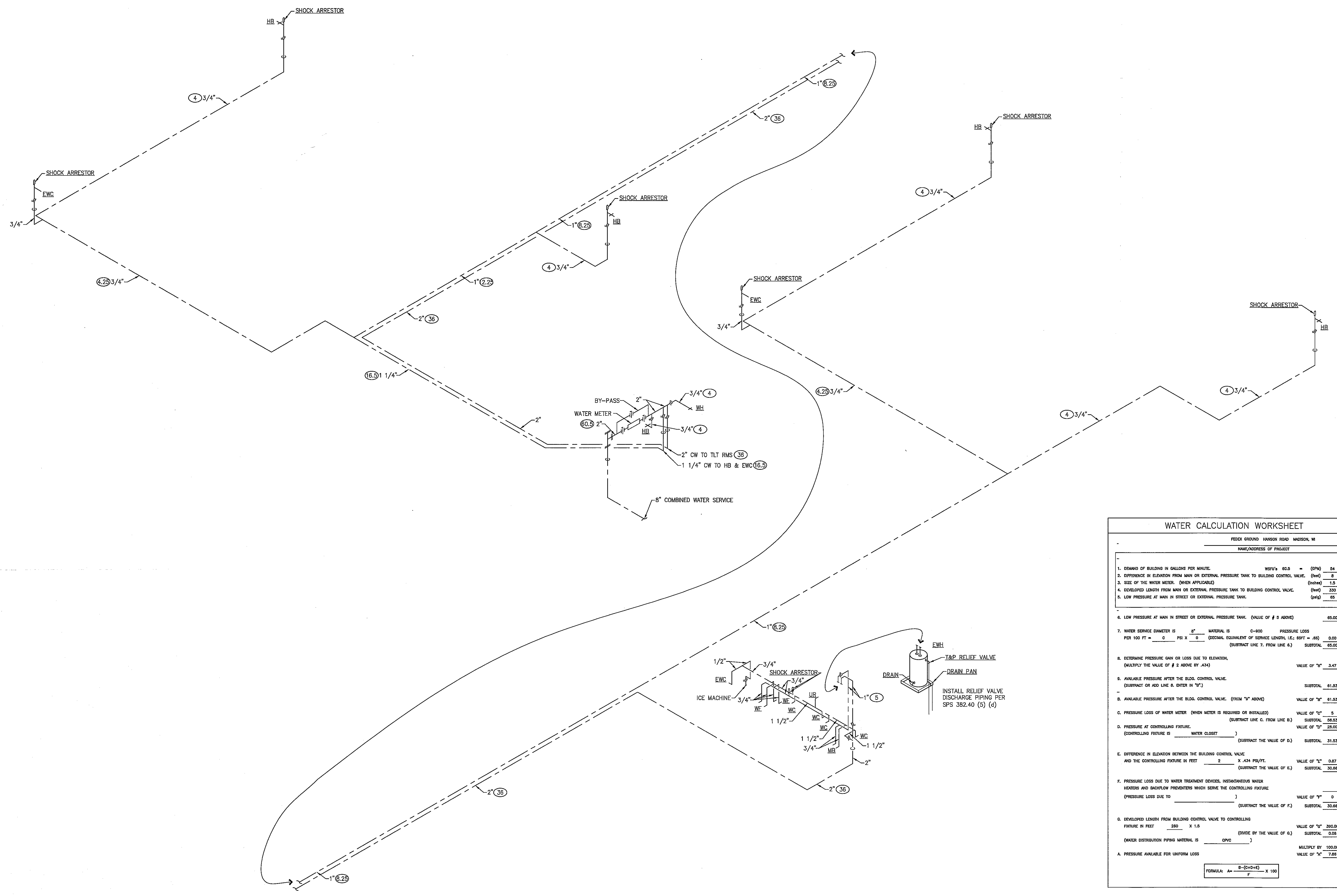
RECORD DRAWINGS

| DATE      | ISSUANCE/REVISIONS         | SYMBOL |
|-----------|----------------------------|--------|
| 9/18/2013 | STATE PLUMBING PLAN REVIEW |        |

FED-EX GROUND  
HANSON ROAD  
MADISON, WI

DRAWING TITLE  
**WATER PIPING ISOMETRIC**

|                    |                               |
|--------------------|-------------------------------|
| DRAWN BY<br>BILL P | DRAWING NUMBER<br><b>P300</b> |
| CHECKED BY<br>--   |                               |



| WATER CALCULATION WORKSHEET  |   |
|--|---|
| FED-EX GROUND HANSON ROAD MADISON, WI  |   |
| NAME/ADDRESS OF PROJECT  |   |
| 1. DEMAND OF BUILDING IN GALLONS PER MINUTE.   | WFSU'S 80.5 = (GPM) 54                          |
| 2. DIFFERENCE IN ELEVATION FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE.  | (FEET) 0  |
| 3. SIZE OF THE WATER METER. (WHEN APPLICABLE)  | (INCHES) 1.5                                    |
| 4. DEVELOPED LENGTH FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE.   | (FEET) 330                                      |
| 5. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK.   | (PSI) 65  |
| 6. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK. (VALUE OF # 5 ABOVE)  | 65.00   |
| 7. WATER SERVICE DIAMETER IS _____ IN. MATERIAL IS C-800. PRESSURE LOSS PER 100 FT = _____ PSI X _____ (DECIMAL EQUIVALENT OF SERVICE LENGTH, I.E. 80FT = .80)         | 0.00  |
| (SUBTRACT LINE 7, FROM LINE 6.)  | SUBTOTAL 65.00                                  |
| 8. DETERMINE PRESSURE GAIN OR LOSS DUE TO ELEVATION. (MULTIPLY THE VALUE OF # 2 ABOVE BY .434)   | VALUE OF "8" 3.47                               |
| 9. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE. (SUBTRACT OR ADD LINE 8, ENTER IN "+")  | SUBTOTAL 61.53                                  |
| 10. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE. (FROM "9" ABOVE)   | VALUE OF "9" 61.53                              |
| 11. PRESSURE LOSS OF WATER METER (WHEN METER IS REQUIRED OR INSTALLED)   | VALUE OF "10" 5                                 |
| (SUBTRACT LINE 10, FROM LINE 9.)   | SUBTOTAL 56.53                                  |
| 12. PRESSURE AT CONTROLLING FIXTURE. (CONTROLLING FIXTURE IS WATER CLOSET)   | VALUE OF "11" 25.00                             |
| (SUBTRACT THE VALUE OF 12)   | SUBTOTAL 31.53                                  |
| 13. DIFFERENCE IN ELEVATION BETWEEN THE BUILDING CONTROL VALVE AND THE CONTROLLING FIXTURE IN FEET   | 2 X .434 PSI/FT. VALUE OF "13" 0.87             |
| (SUBTRACT THE VALUE OF 13)   | SUBTOTAL 30.66                                  |
| 14. PRESSURE LOSS DUE TO WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTERS WHICH SERVE THE CONTROLLING FIXTURE (PRESSURE LOSS DUE TO _____) | VALUE OF "14" 0                                 |
| (SUBTRACT THE VALUE OF 14)   | SUBTOTAL 30.66                                  |
| 15. DEVELOPED LENGTH FROM BUILDING CONTROL VALVE TO CONTROLLING FIXTURE IN FEET  | 280 X 1.5 VALUE OF "15" 305.00                  |
| (DIVIDE BY THE VALUE OF 13)  | SUBTOTAL 0.09                                   |
| (WATER DISTRIBUTION PIPING MATERIAL IS CPVC)   | MULTIPLY BY 100.00 VALUE OF "16" 7.88           |
| 16. PRESSURE AVAILABLE FOR UNIFORM LOSS  | FORMULA: $A = \frac{B - (C + D)}{F} \times 100$ |

1 WATER PIPING ISOMETRIC  
P300 NTS

HVAC CONTRACTOR:

**AIR TEMPERATURE SERVICES, INC.**  
 5301 VOGES ROAD  
 MADISON, WISCONSIN 53718

FACILITIES & MATERIAL HANDLING SYSTEMS  
 1000 FedEx Drive  
 Moon Township, PA  
 412-269-1000

**FedEx** Ground

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**FED-EX GROUND**  
 3829 HANSON ROAD  
 MADISON, WI

| NO. | REVISION | DATE |
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SHEET TITLE:  
HEATING & VENTILATING PLAN

JOB NUMBER: --

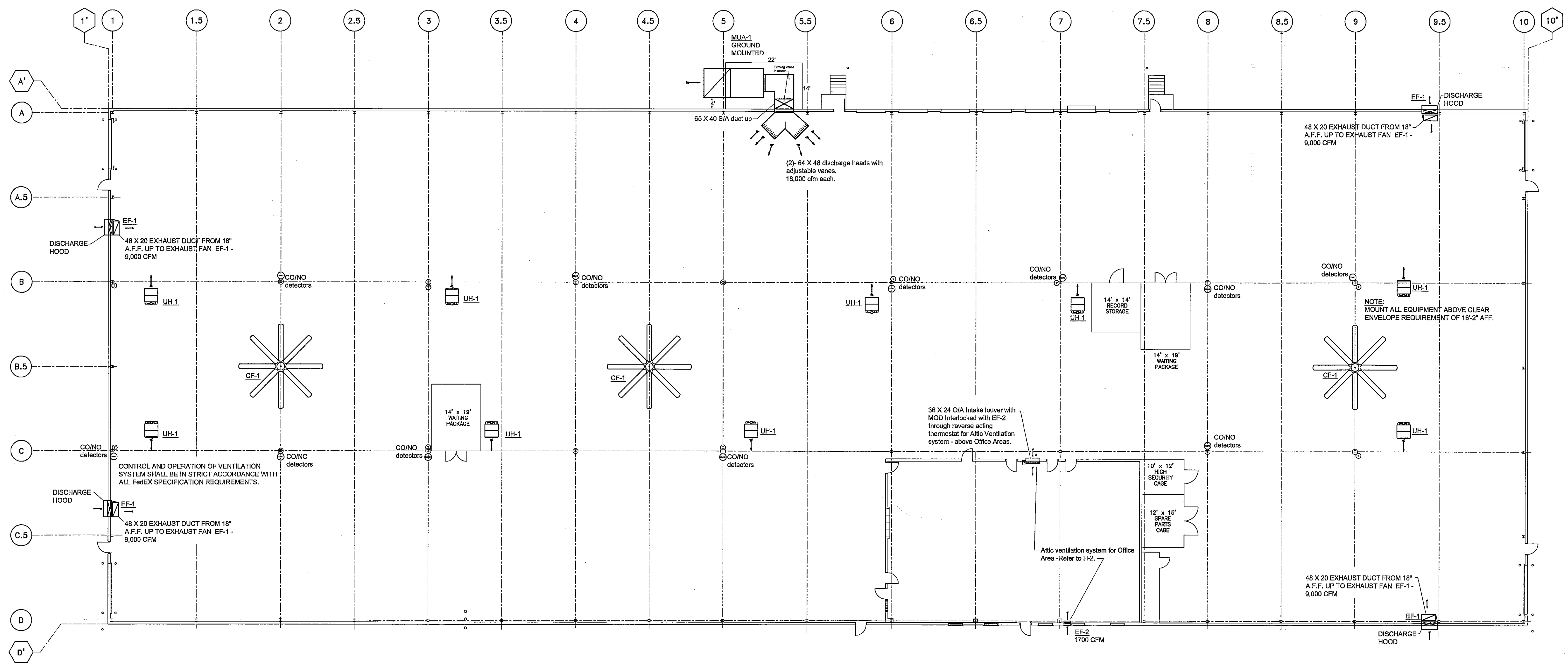
DESIGNED BY: --

DRAWN BY: --

CHECKED BY: --

DATE: 11.02.13

SHEET NO:  
**HV-1**  
of 2



**UNIT HEATER SCHEDULE:**

| MARK       | MODEL  | MANUFACTURE | BTUHR INPUT | BTUHR OUTPUT | MOTOR H.P. | FREE AIR CFM | MOTOR VOLTAGE | GAS TYPE | AFLUE | NOTE      |
|------------|--------|-------------|-------------|--------------|------------|--------------|---------------|----------|-------|-----------|
| (9) - UH-1 | TF-250 | STERLING    | 250,000     | 207,500      | 1/3 H.P.   | 3,400        | 115 - 1 - 60  | NAT      | 83%   | 1,2,3,4,5 |

- Provide a Class B vent system through roof.
- Provide a electronic programmable thermostat mounted at 48" A.F.F.
- Suspend heater as high as possible with non-combustible hangers.
- Verify all electrical requirements with Electrical Contractor.
- Aluminized steel tubular heat exchanger.

**EXHAUST - FAN SCHEDULE:**

| MARK     | EXHAUST FAN MODEL | MANUFACTURE | EXHAUST CFM | MOTOR SIZE | ESP    | MOTOR VOLTAGE | NOTE:   |
|----------|-------------------|-------------|-------------|------------|--------|---------------|---------|
| (4) EF-1 | WPD 30E4          | TWIN CITY   | 9,000       | 1-1/2 H.P. | 0.25"  | VERIFY        | 1,3,4,5 |
| EF-2     | LWBK24-p1         | CARNES      | 1700 CFM    | 1/2 HP     | 0.375" | 115 - 1 - 60  | 5,6     |
| EF-3     | QTXE80            | BROAN       | 75          | 57 WATTS   | 0.25"  | 115 - 1 - 60  | 2,5,7   |
| EF-4     | L-150             | BROAN       | 150 CFM     | 1.3 AMPS   | 0.25"  | 115 - 1 - 60  | 8       |
| EF-5     | L-250             | BROAN       | 225 CFM     | 2.1 AMPS   | 0.25"  | 115 - 1 - 60  | 2,5,7   |

- Wall mounted propeller exhaust fan with wall collar and automatic back draft damper. Interlock with motor operated dampers on O/A intake louvers.
- Provide wall or roof cap with back draft damper.
- Interlock with CO/NO detectors and motor operated dampers on two intake louvers.
- Belt drive.
- Verify all Electrical requirements with Electrical Contractor.
- Wall mounted exhaust fan with wall housing, automatic back draft damper and OSHA approved intake guard. Interlock with intake for Attic ventilation system.
- Wire for continuous operation during occupied hours.
- Fan utilized for in-line air transfer between rooms.

**MAKE-UP AIR SCHEDULE:**

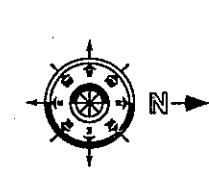
| MARK  | MODEL NUMBER | MANUFACTURE  | GAS TYPE | HEATING BTU OUT | AFUE | SCFM   | ESP  | MOTOR HP. | SYSTEM CONTROL | TEMP RISE | UNIT VOLTAGE | UNIT WEIGHT | NOTE:           |
|-------|--------------|--------------|----------|-----------------|------|--------|------|-----------|----------------|-----------|--------------|-------------|-----------------|
| MAU-1 | CAH 33       | CAPTIVE AIRE | NAT      | 3,480,320       | 80%  | 35,050 | 0.80 | 25        | MODULATING     | 83        | VERIFY       | 3,854 LBS   | 1,2,3,4,5,6,7,8 |

- Provide with roof curb and down-flow discharge configuration.
- Provide with intake damper and weather hood with filter.
- Cabinet Insulation.
- Fan Interlock.
- Remanant Filter.
- Remote control panel with adjustable discharge temperature controller.
- ANSI Rated Burner.
- High Pressure Regulator.

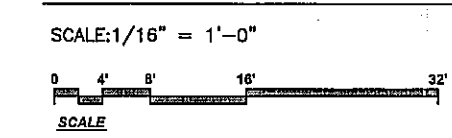
**PADDLE FAN SCHEDULE:**

| MARK | FAN MODEL   | MANUFACTURE | CFM    | MOTOR H.P. | AMP  | MOTOR VOLTAGE | FAN DIAMETER | NOTE:   |
|------|-------------|-------------|--------|------------|------|---------------|--------------|---------|
| CF-1 | F-PF61-2404 | BIGASSFANS  | 20,000 | 1.0 HP     | 0.25 | 460/3Ø        | 12'          | 1,2,3,4 |

- Provide a solid state speed control.
- Provide a M-PF1-0101 mounting kit with down-rod for each fan.
- Provide with solid state speed controller.
- Furnished by HVAC Contractor, installed and wired by Electrical Contractor.



**HEATING & VENTILATION**



HVAC AS-BUILT  
07-29-14

**GENERAL NOTES, CONDITIONS AND TERMS:**

- All work to be done in strict compliance with all state and local codes and all manufacturer's instructions.
- Supply fans to run constantly during occupied periods of building operation.
- Maintain 10'-0" between all vent/exhaust and outside air intakes.
- Provide and install turning vanes or large radius turns on all duct corners.
- Provide and install splitter dampers at all supply duct tees and take-offs.
- All supply duct take-offs shall be provided with manually adjustable air balancing damper with locking quadrants or wings.
- Undercut doors or provide door or transfer grilles where necessary to provide for proper transfer of air. do not penetrate any fire barriers.
- All duct installation shall conform to ASHRAE and SMACNA standards as regards but not limited to duct gauges, turning radius and the installation of turning vanes and/or extractors, whether or not shown on plans.
- All clothes dryer exhaust ducting shall be constructed from minimum 26 gauge aluminum duct. the total equivalent length of dryer exhaust ducting shall not exceed 25 equivalent feet per IMS (International mechanical code) chapter 5, section 504.6.1. each vertical rise shall be provided with a clean-out per IMS, section 504.3
- All ductwork and piping shall run straight and true and shall be installed in a workmanlike manner.
- Steel or aluminum ductwork that requires insulation shall conform with all applicable codes. dimensions listed are inside area sizes. minimum insulation R values shall be determined by IECC Code 403.2.1 & 603.2.7. All supply and return ducts shall be insulated with a minimum of R-8 insulation when located in unconditioned spaces and with a minimum of R-8 insulation when located outside the building envelope.
- Ductwork seams and joints: all longitudinal & transverse joints, seams and connections of supply, return and exhaust ducts to be securely fastened and sealed. this system is a low pressure (less than or equal to 2" w.g.) duct system. All tapes and mastics shall be listed and labeled in accordance with UL 181a. All duct sealing work shall comply with IECC 403.2.7.1 & IMC 603.0. Grilles and registers are general sizes and should be verified for final selection and type.
- Gas piping provided to meet all state and local codes, including local gas utility company requirements and the national fuel gas code, NFPA No. 54.
- HVAC Contractor shall furnish and install all condensate drain lines and refrigeration piping in strict accordance with manufacturer's recommendations.
- All low voltage control wiring shall be furnished and installed by HVAC contractor.
- HVAC Contractor or balancing agent shall test and balance the entire HVAC system per requirements SPS 364, section 364.0313(1). The balance report shall be submitted to the engineer or hvac designer along with one copy retained on site with approved HVAC plans. note that final inspections shall not be performed and compliance statements (required for occupancy) shall not be provided without a valid air balance report on file with the engineer or HVAC designer.
- HVAC Contractor shall provide one set of operation & maintenance manuals to the owner as required by SPS 364, section 364.0313(3). This manual shall include all equipment c & m manuals, all thermostat programming manuals and instructions and any and all relevant wiring diagrams or control schematics and all equipment warranty information.
- Per IMC section 308: access and service space requirements: clearances around appliances to elements of permanent construction, including other installed equipment and appliances, shall be sufficient to allow inspection, service, repair or replacement without removing such elements of permanent construction or disabling the function of a required fire-resistance-rated assembly.
- Appliances in rooms: rooms containing appliances requiring access shall be provided with a door and an unobstructed passageway measuring not less than 36 inches wide and 80 inches high.
- Exhaust outlets for "environmental air" exhaust openings shall be located >= 3 feet from property lines and > 3 feet from openings into the building. "Environmental air" is air that is conveyed to or from occupied areas through ducts which are not part of the heating or air-conditioning system, such as ventilation for human usage, domestic kitchen range exhaust, bathroom exhaust and domestic clothes dryer exhaust. the exhaust from a bathroom or kitchen in a residential dwelling shall not be considered to be hazardous or noxious contaminant. Other types of exhaust openings shall be located 10 feet from property lines and 10 feet from operable openings into buildings. see IMC 501.2.1
- IMC 601.1 provide sheet metal ducts, duct liner and fittings which are constructed in compliance with the standards approved by the department. The use of fiberglass constructed duct, (ductboard) will not be permitted on this project.
- HVAC Contractor shall field verify all duct dimensions prior to fabrication.
- HVAC Contractor shall be responsible for ductwork routing, installation and resolving interference with other trades.
- Provide HVAC systems with automatic setback or shutdown controls.
- Per IBC 1101.2(ANSI A117.1-308.2 & 3 - all thermostats shall be located at a maximum of 48 inches and a minimum of 16 inches above finished floor immaterial of whether or not the floor space allows a forward approach by a wheel chair or if the clear floor space allows a parallel approach.
- All exhaust fans shall be wired per requirements noted in schedule. All wiring provided by Electrical Contractor.
- Per IMC 304.9 clearance from grade. Equipment and appliances installed at grade level shall be supported on a level concrete slab or other approved material extending above adjoining grade or shall be suspended a minimum of 6 inches above adjoining grade. All outside air intakes, including those provided with packaged outdoor HVAC equipment, shall be located a minimum of 24" above grade level.
- These drawings are diagrammatic & are intended to show the intent of the plans and specifications. Some field changes that do not affect the performance or intent of the design are acceptable and should be expected. Do not scale drawings, the contractor shall field verify all measurements and accept responsibility for their accuracy.
- Ownership of Instruments of Service: These plans and all related including work performed and provided, including but not limited to load calculations are intended for use only by the specific HVAC Contractor named in the title block contained in and shown on this plan. Transfer of this plan along with any and all related work shall not be permitted without specific written authorization from the Engineer of Record. If said written authorization is not obtained, the Engineer of Record shall not be responsible for the design or performance of the HVAC system on this particular project.
- The design and installation of the HVAC system for this particular project shall be strictly adhered to with regards to the type of HVAC equipment and the Manufacturer of said equipment as listed in the Equipment Schedules. If any changes are requested, prior written approval of equipment and shop drawing approval must be obtained. If the type and Manufacturer of the HVAC equipment utilized on this project is not provided as scheduled, the Engineer of Record shall not be responsible for the design or performance of the HVAC system.
- The HVAC Engineer/Designer and the Gustave A. Larson Company hereby assumes absolutely no responsibility for the ability of the existing or new roof structure to adequately support any or all roof mounted HVAC Equipment shown on this plan. The registered Architect shall provide all structural calculations along with all additional or new structural supports to adequately support all roof mounted HVAC equipment shown on this plan.

**DUCT SEALING REQUIREMENTS**

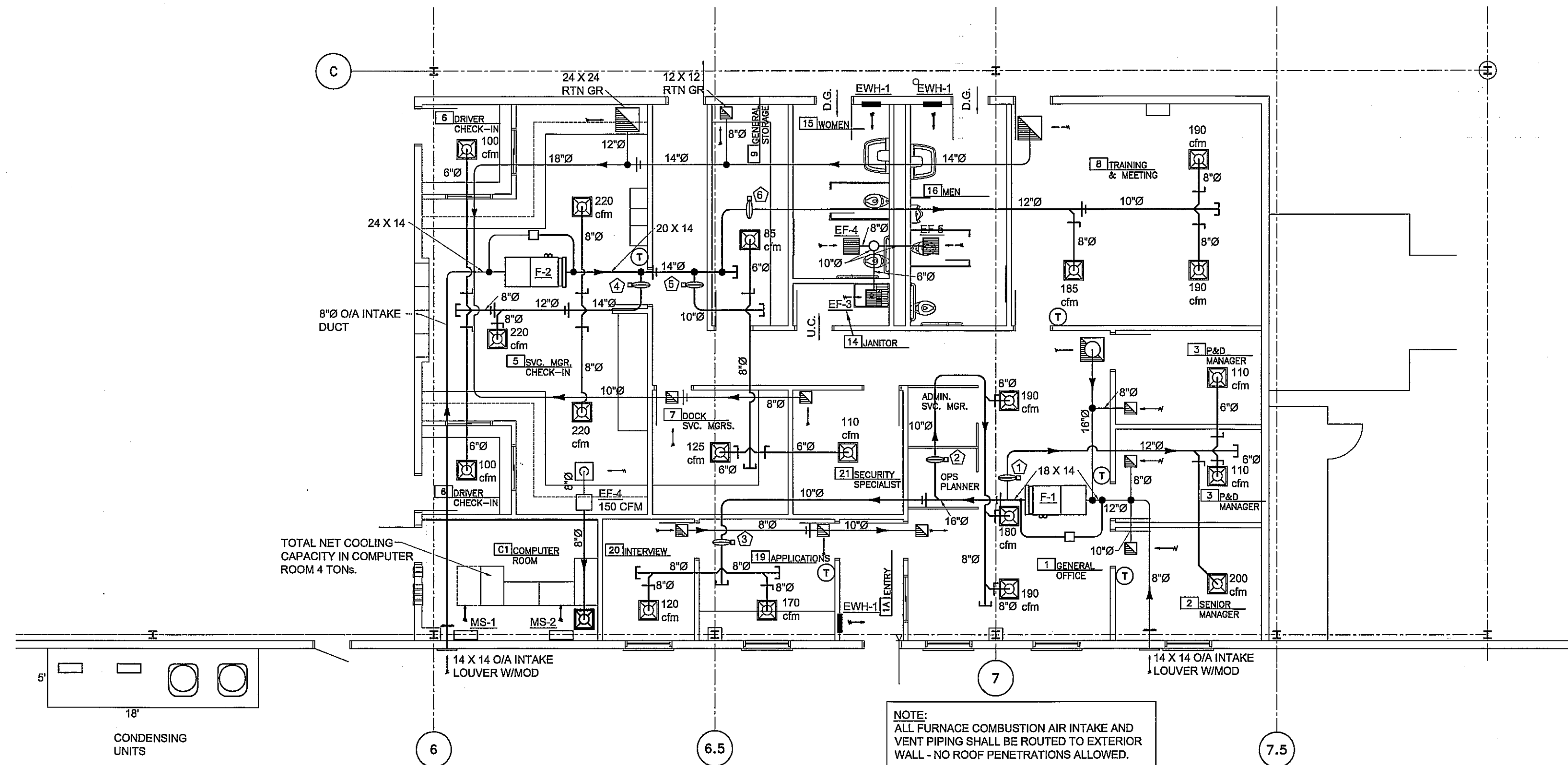
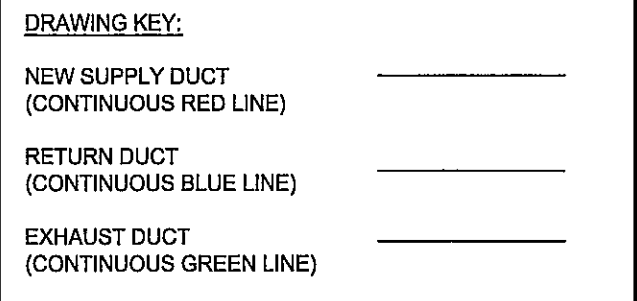
IECC 403.2.7.1, IMC 603.0  
 Low pressure duct systems  
 All longitudinal and transverse joints, seams and connections of supply, return & exhaust ducts operating at a static pressure less than or equal to 2 inches w.g. (500 pa) shall be securely fastened and sealed with wide, gasket, mastic (polyurethane), mastic-plus-embedded fabric systems or tapes installed in accordance with the manufacturer's installation instructions. Pressure classifications specific to the duct system shall be clearly indicated on the construction documents in accordance with the International Mechanical Code.  
 Tapes and mastics used to seal ductwork shall be listed and labeled in accordance with UL 181a and shall be marked "181A-P" for pressure-sensitive tape, "181-A-M" for mastic or "181-A-H" for heat-sensitive tape.

**INSULATION REQUIREMENTS**

IECC 403.2.603.2.7.  
**DUCT INSULATION**  
 Must have R-value, installed thickness, flame spread & smoke development index every < 36".  
 Not required with temperature difference < 15 degrees F.  
 Minimum R-8 required in Unconditioned Spaces.  
 Minimum R-6.0 required when duct located outside Building Envelope.  
**PIPING INSULATION**  
 Required if fluid temperature > 105 degrees F.  
 Required if fluid temperature < 55 degrees F.

**NOTE:**

Per IBC 1101.2(ANSI A117.1-308.2&3 All Mechanical Systems Controls shall be located a maximum of 48" and a minimum of 16" above finished floor. Immaterial of whether or not the floor space allows a forward approach by a wheel chair or if the clear floor space allows a parallel approach.  
 HVAC Contractor shall provide smoke detection system that will shut down the air distribution system upon activation. Smoke detectors shall be connected to a fire alarm system if provided in building. The activation of a smoke detector shall activate a visible and audible supervisory signal at a constantly attended location. The smoke detector(s) shall be located in the return air duct of all units with return air that supply more than 2,000 cfm including fan-powered variable air-volume units.



**OFFICE FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

**ELECTRIC HEATER SCHEDULE:**

| MARK        | HEATER MODEL | MANUFACTURE | HEATER TYPE | TOTAL KW. | BTU/HR | NOTE:     |
|-------------|--------------|-------------|-------------|-----------|--------|-----------|
| (3) - EWH-1 | CWH1101-DS   | QMARK       | WALL        | 1.0       | 3,412  | 1,2,3,4,5 |

- Integral double pole line voltage thermostat.
- Provide with recess wall sleeve.
- Integral fan assembly.
- Verify all electrical requirements with Electrical Contractor.
- Mount electric wall heater 1'-0" above finish floor.

**FURNACE SCHEDULE:**

| MARK | FURNACE MODEL | MANUFACTURE | GAS TYPE | HEATING BTU INPUT | HEATING BTU OUT | AFUE | SCFM  | ESP  | MOTOR HP. | CONDENSING UNIT MODEL | MANUFACTURE | COOLING BTU TOTAL | EER  | MINIMUM FRESH AIR | NOTE:       |
|------|---------------|-------------|----------|-------------------|-----------------|------|-------|------|-----------|-----------------------|-------------|-------------------|------|-------------------|-------------|
| F-1  | TUC1B080A928  | TRANE       | NAT      | 80,000            | 74,000          | 92%  | 1,288 | 0.55 | 1/3       | 4TTA3036A3000         | TRANE       | 36,000            | 13.0 | 150 CFM           | 1,2,3,4,5,6 |
| F-2  | TUC1C100A948  | TRANE       | NAT      | 100,000           | 92,000          | 92%  | 1,748 | 0.55 | 1/2       | 4TTA3048D3000         | TRANE       | 48,000            | 13.0 | 210 CFM           | 1,2,3,4,5,6 |

- 100% sealed combustion horizontal suspended furnaces with 1" T/A air filters.
- Provide Honeywell Pro series 8000 electronic programmable thermostat.
- Fan shall operate continuously during occupied hours.
- Provide a motorized fresh air damper. Shall be open during occupied hours
- Verify all Electrical requirements with Electrical Contractor. Anticipate use of 208/3Ø power for AC units.
- Provide with Tru-Zone or equal damper control system with (3) zone dampers, room sensors, control panel and by-pass damper.

**NOTE:**  
 Provide each furnace system with (3) zones of temperature control utilizing zone dampers, (3) - room sensors, central control panel and motor operated by-pass controller with duct static pressure sensor.

**MINI-SPLIT AIR-CONDITIONING SCHEDULE**

| MARK | INDOOR UNIT MODEL | MANUFACTURE | HEAT TYPE | HEATING BTU OUT | CFM     | OUTDOOR UNIT MODEL | COOLING BTU TOTAL | NOTE:   |
|------|-------------------|-------------|-----------|-----------------|---------|--------------------|-------------------|---------|
| MS-1 | 40MVC-024-3       | CARRIER     | NONE      | NONE            | 750 CFM | 38MVC-024-3        | 24,000            | 1,2,3,4 |
| MS-2 | 40MVC-024-3       | CARRIER     | NONE      | NONE            | 750 CFM | 38MVC-024-3        | 24,000            | 1,2,3,4 |

- Wall Mounted.
- Provide with low-ambient cooling to 0 degrees.
- Furnish with pre-charged line set.
- Locate condenser in shop area.

**ZONE DAMPER SCHEDULE:**

| MARK | DESIGN CFM | MINIMUM CFM | MAXIMUM CFM | NOTE    |
|------|------------|-------------|-------------|---------|
| ①    | 560 CFM    | 545 CFM     | 875 CFM     |         |
| ②    | 420 CFM    | 350 CFM     | 560 CFM     |         |
| ③    | 290 CFM    | 200 CFM     | 315 CFM     |         |
| ④    | 980 CFM    | 875 CFM     | 1080 CFM    | BY-PASS |
| ⑤    | 880 CFM    | 785 CFM     | 1255 CFM    |         |
| ⑥    | 320 CFM    | 200 CFM     | 315 CFM     |         |
| ⑦    | 565 CFM    | 545 CFM     | 875 CFM     |         |
| ⑧    | 1425 CFM   | 1255 CFM    | 1570 CFM    | BY-PASS |

HVAC CONTRACTOR:  
**AIR TEMPERATURE SERVICES, INC.**  
 5301 VOGES ROAD  
 MADISON, WISCONSIN 53718

FACILITIES & MATERIAL HANDLING SYSTEMS  
 1000 FedEx Drive  
 Moon Township, PA 15108  
 412-269-1000  
**FedEx Ground**

**FED-EX GROUND**  
 3829 HANSON ROAD  
 MADISON, WI

| NO. | REVISION | DATE |
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SHEET TITLE:  
 HEATING & VENTILATING PLAN

JOB NUMBER: ---

DESIGNED BY: --

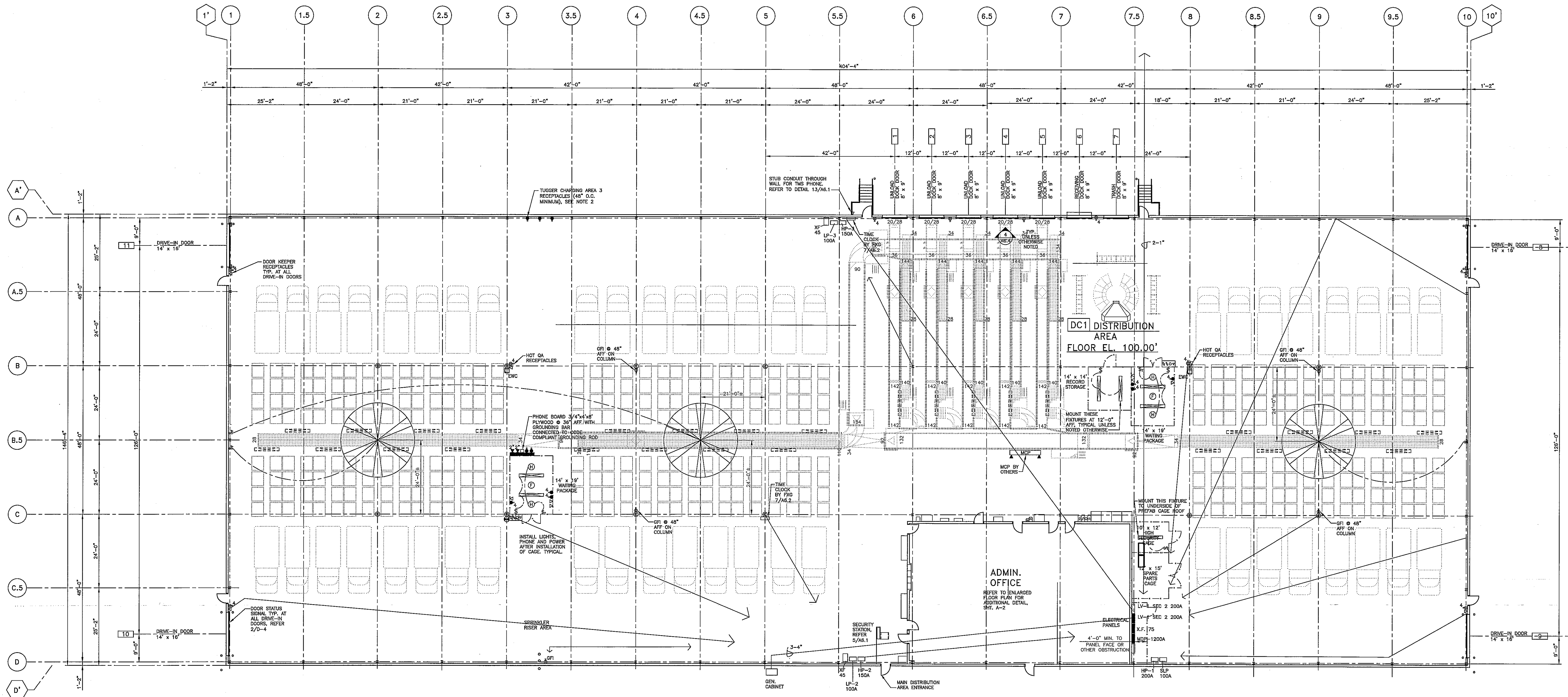
DRAWN BY: --

CHECKED BY: --

DATE: 11.02.13

SHEET NO:  
**HV-2**  
 OF 2

HVAC AS-BUILT  
 07-29-14



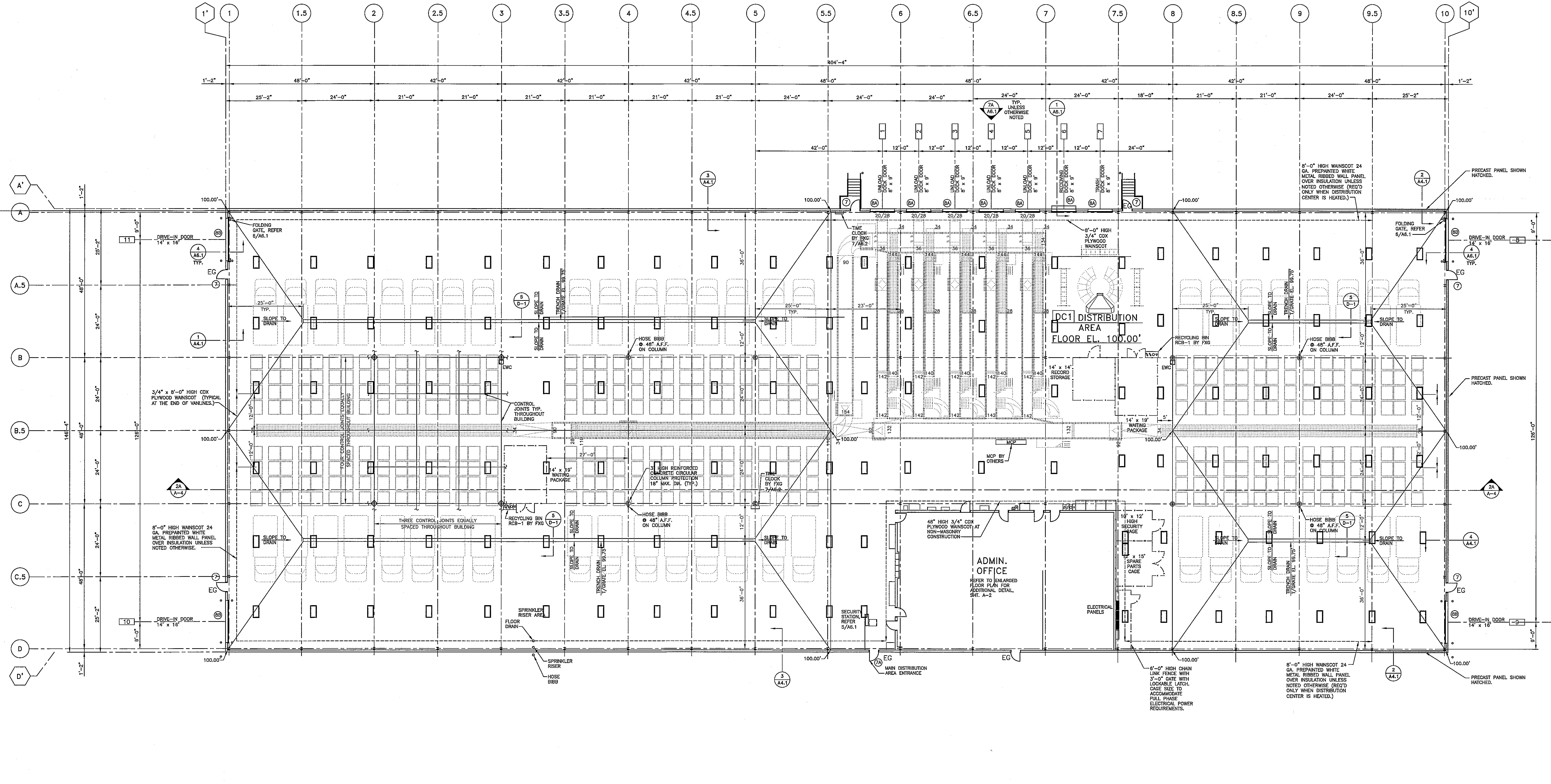
- LEGEND**
- ⊗ LOCATION OF FLUSH SINGLE GANG TELEPHONE OUTLET WITH 3/4" CONDUIT W/PULL WIRE TO ACCESSIBLE CEILING/JOIST SPACE. TERMINATE CONDUITS WITH PLASTIC BUSHINGS. INSTALL COVER PLATES AT ALL LOCATIONS. (TYP) PROVIDE CONTINUOUS RUN CONDUITS IN JOIST SPACE IF REQUIRED BY CODE.
  - ⊗ OFFICE AREA CONDUIT W/PULL WIRE FROM TELEPHONE BOARD TO OFFICE CEILING SPACE, SIZE AS NOTED.
  - JUNCTION BOX W/20 AMP DEDICATED CIRCUIT TO A LOCKABLE BREAKER. LABEL BOX W/BREAKER AND PANEL.
  - ⊕ DUPLEX RECEPTACLES
  - ⊕ DUPLEX RECEPTACLES ON A DEDICATED CIRCUIT
  - ⊕ GROUND FAULT INTERRUPT DUPLEX RECEPTACLES
  - ⊕ QUADRUPLEX RECEPTACLES
  - ⊕ QUADRUPLEX RECEPTACLES ON DEDICATED CIRCUIT
  - ⊕ 3/4" x 10"-0" COPPERWELD DRIVEN GROUND ROD. TOP OF ROD TO BE IN GRAVELED AREA. THERMOWELDED GROUNDING CONDUCTOR TO OUTSIDE FLANGE (CANNELD TYPE "40"). REFER TO DETAIL 6/0-5 AND 7/0-5.
  - ⊕ LIGHT FIXTURE SWITCH, WALL MOUNTED
  - ⊕ HVLS FAN CONTROLS
  - ⊕ HEATING UNIT SWITCH WITH TIMER, WALL MOUNTED. TIMER SHALL BE A MECHANICAL BYPASS UNIT, WALL MOUNTED. FOR 240V APPLICATION, 6-HOUR TIME OUT, INTERMATIC, DPTI, MODEL # F746R, OR F30 APPROVED EQUAL.
  - ⊕ 480 VOLT WELDING OUTLET
  - ⊕ HIGH VOLUME LOW SPEED FAN, REFER TO SPECIFICATIONS
  - ⊕ DESIGN AND PROVIDE ADEQUATE CIRCUIT BREAKER IN POWER PANEL TO ACCOMMODATE HIGH VELOCITY TRUCK FANS SIMILAR TO THOSE NOTED IN RETAIL 4/0-5. THE FAN, CONDUIT AND WIRING WILL BE FURNISHED AND INSTALLED BY OTHERS.
  - ⊕ NEW FLUORESCENT LIGHT FIXTURE APPROVED LIGHT FIXTURES W/2-F096/735/HQ/ECO TOLP COMPLIANT LAMPS WITH 8000 INITIAL LUMENS AND ELECTRONIC RAPID START BALLASTS WITH ≤ 10X THD:
    - LITHONIX #JLS-29818HD SERIES
    - DAY-BRITE #DS-29818D SERIES
    - METALUX #ST-DCM-29818D SERIES
    - COLUMBIA #ML-29818HD SERIES
  - ⊕ DESIGN AND PROVIDE ADEQUATE CIRCUIT BREAKERS IN POWER PANEL TO ACCOMMODATE LIGHT FIXTURES SIMILAR TO THOSE NOTED ABOVE. THE FIXTURES, CONDUIT AND WIRING WILL BE FURNISHED AND INSTALLED BY OTHERS.
  - (EP) NEW EXPLOSION PROOF LIGHT FIXTURE 380 SERIES BY LPII OR APPROVED EQUAL.
  - ⊕ ONE 2000 WATT RADIANT ELECTRIC HEATER MODEL FRP-ATMB AS MANUFACTURED BY QMARK OR EQUIVALENT. THE HEATER SHALL BE SUPPLIED WITH LOCAL ON/OFF SWITCH, 240V. FRP-285 FIXTURE WITH 2 - 1500W QUARTZ TUBES, F2-0T-10-240, WIRE GUARD, FW222 AND TILT MOUNTING BRACKET. MOUNTING HEIGHT AS PER MANUFACTURER'S RECOMMENDATIONS.
  - ⊕ FURNISH AND INSTALL HEATING UNITS ACCORDING TO THE FOLLOWING AND/OR WHERES INDICATED ON THE DRAWINGS:
    - ONE (1) UNIT FOR WAITING PACKAGE CAGES
    - 10'-0" x 12'-0"
    - 12'-0" x 15'-0"
    - 14'-0" x 15'-0"
    - TWO (2) UNITS FOR WAITING PACKAGE CAGES
    - 14'-0" x 18'-0" OR LARGER
  - ⊕ PROVIDE POWER AND DATA AS REQUIRED FOR TIME CLOCK. TIME CLOCK PROVIDED BY FXG. REFER TO DETAIL 7/0-3 FOR MORE INFORMATION.

**BUILDING UNDERGROUND ELECTRICAL PLAN**  
 SCALE: 1/16" = 1'-0"

- NOTES:**
1. VERIFY LOCATION OF ELECTRICAL PANELS WITH FXG.
  2. POST NO SMOKING SIGNS IN TUGGER CHARGING AREA.
  3. RECESS ALL RECEPTACLES AND SWITCHES BEHIND PLYWOOD WAINSCOT AT DOCK WALL.
  4. ELECTRICAL AND TELEPHONE CONDUITS FOR ALL CAGES SHALL BE EXPOSED AND INSTALLED FROM OVERHEAD.

**RECORD DRAWING**  
 02.20.15

|               |                 |
|---------------|-----------------|
| DATE:         |                 |
| NO. REVISION: |                 |
| SHEET TITLE:  | ELECTRICAL PLAN |
| JOB NUMBER:   | 13002           |
| DESIGNED BY:  | DN              |
| DRAWN BY:     | MW              |
| CHECKED BY:   | DN              |
| DATE:         | 7.22.13         |
| SHEET NO.:    | E-1             |



**DISTRIBUTION AREA LIGHTING PLAN**  
 SCALE: 1/16" = 1'-0"  
**KEY**  
 2' X 4' FLUORESCENT LIGHT FIXTURE

RECORD DRAWING

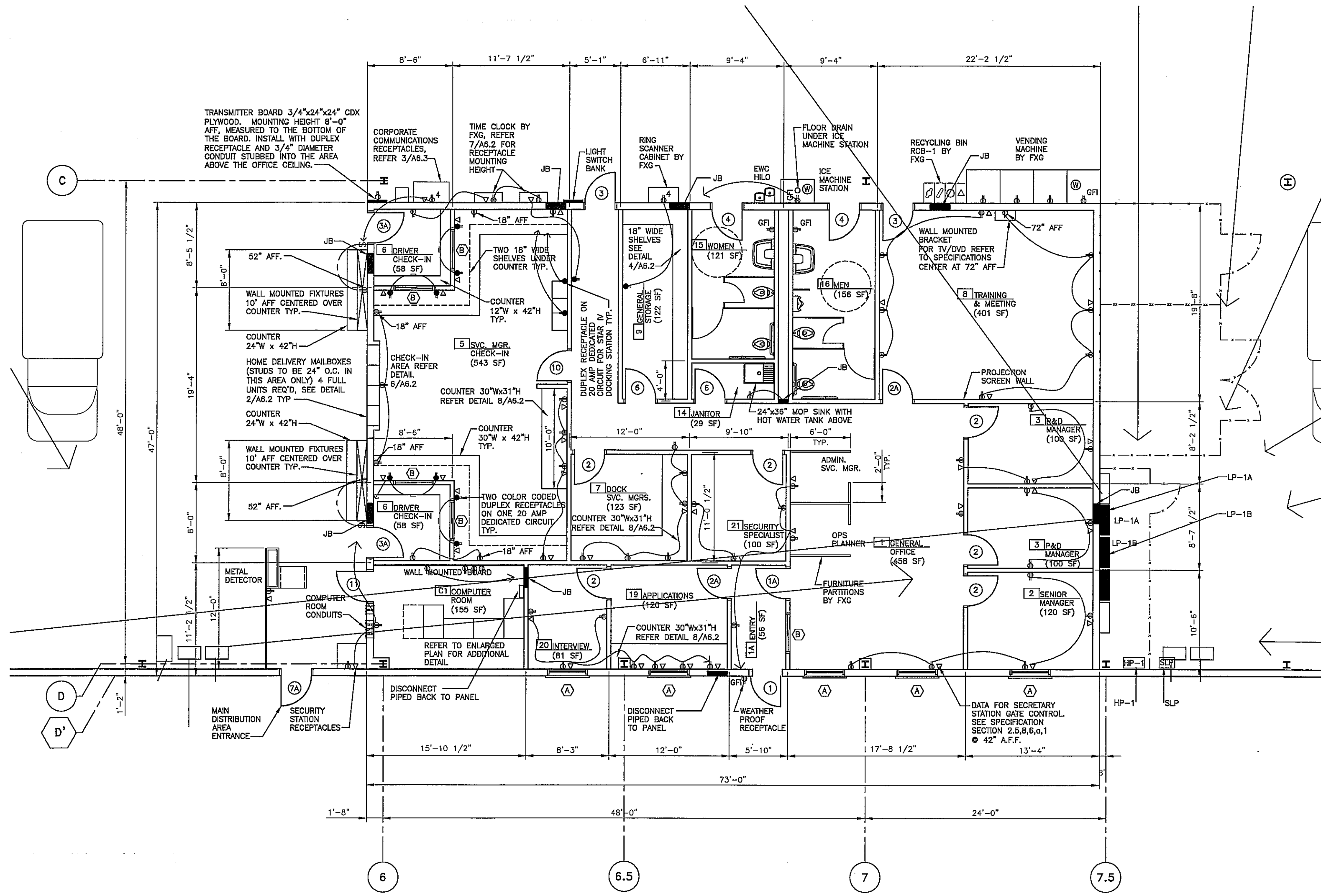
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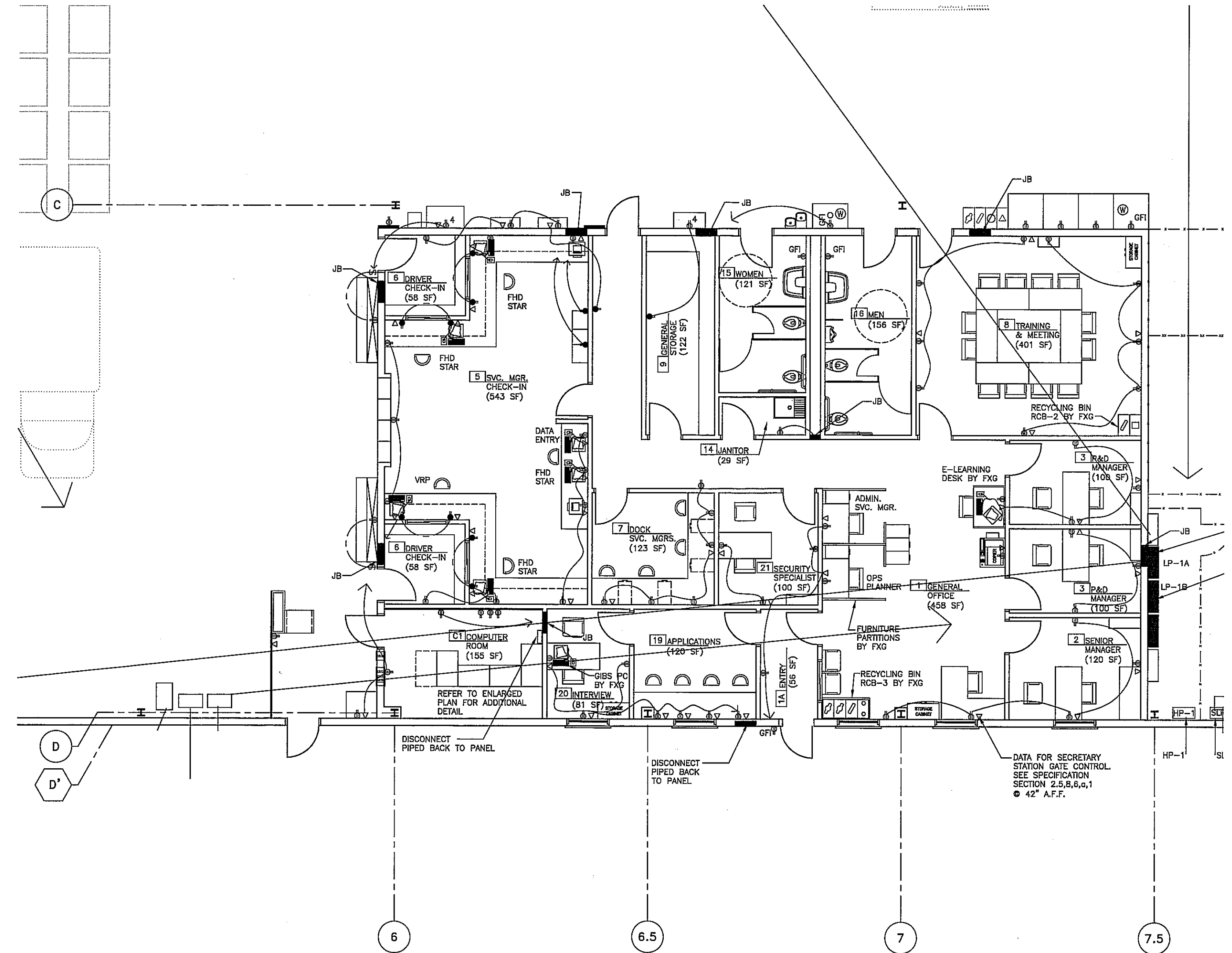
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BUILDING PLAN

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| JOB NUMBER:  | 13002    |
| DESIGNED BY: | DN       |
| DRAWN BY:    | MW       |
| CHECKED BY:  | DN       |
| DATE:        | 07.22.13 |
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NOTE: ALL JUNCTION BOX'S (JB)  
PIPED BACK TO PANEL LP-1



**2 OFFICE ELECTRICAL PLAN**  
SCALE: 1/8" = 1'-0"  
(FOR REFERENCE ONLY)



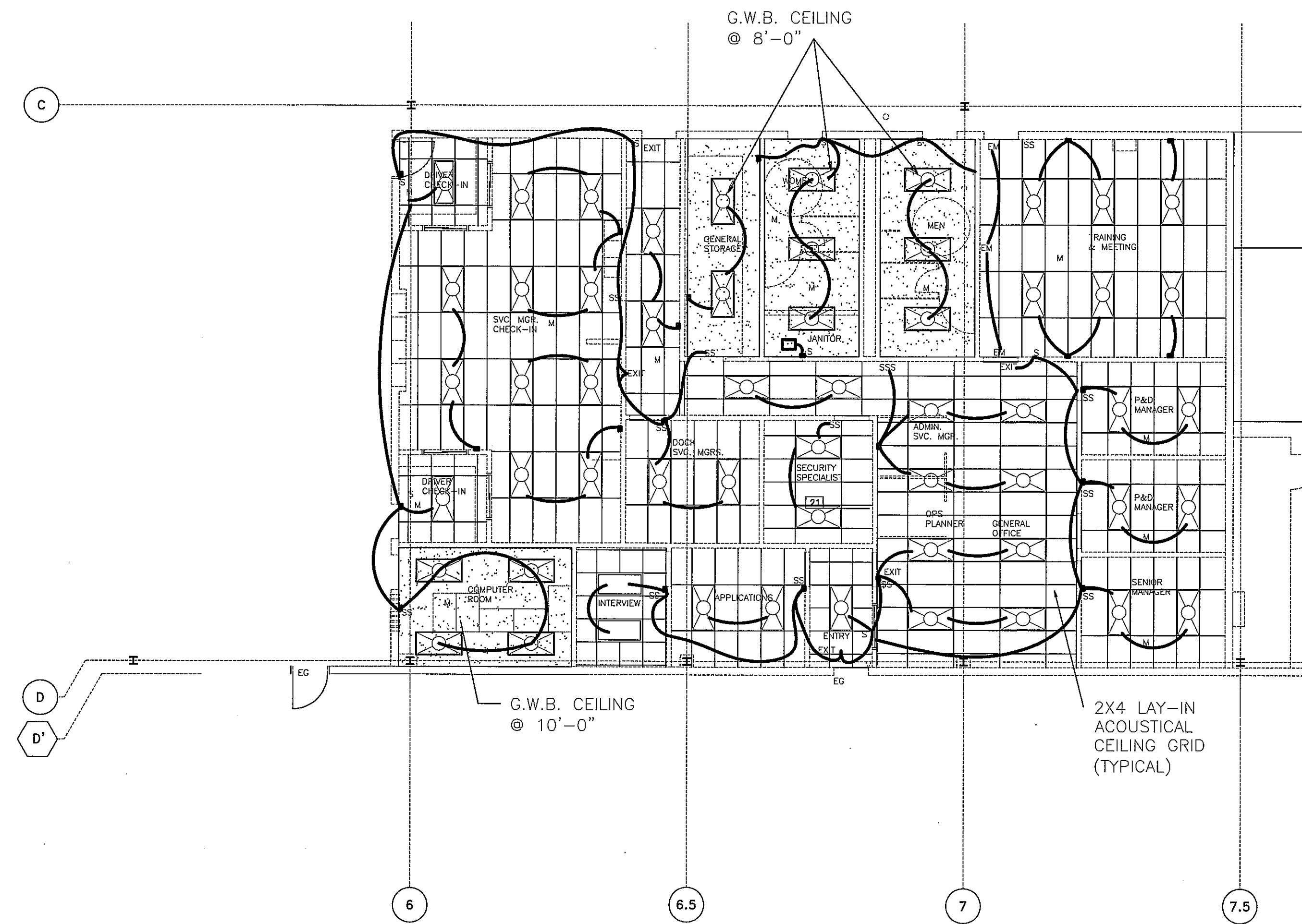
**1 OFFICE ELECTRICAL PLAN**  
SCALE: 1/8" = 1'-0"  
OFFICE SF = 3,431 SF

- △ LOCATION OF FLUSH SINGLE GANG TELEPHONE OUTLET WITH 3/4" CONDUIT W/PULL WIRE TO ACCESSIBLE CEILING SPACE. TERMINATE CONDUITS WITH PLASTIC BUSHINGS. INSTALL COVER PLATES AT ALL LOCATIONS. (TYP)
- ▲ OFFICE AREA: CONDUIT W/PULL WIRE FROM TELEPHONE BOARD TO OFFICE CEILING SPACE, SIZE AS NOTED.
- DISTRIBUTION CENTER: CONDUIT W/PULL WIRE FROM TELEPHONE BOARD/DEVICE TO WAREHOUSE JOIST SPACE, SIZE TO BE 3/4" UNLESS OTHERWISE NOTED.
- JUNCTION BOX W/20 AMP DEDICATED CIRCUIT TO A LOCKABLE BREAKER. LABEL BOX W/BREAKER AND PANEL.
- ⊕ SPECIAL LOCATION DUPLEX RECEPTACLES, OTHERS NOT SHOWN ON PLAN.
- DUPLEX RECEPTACLE ON DEDICATED CIRCUIT
- ⊕ QUADRUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE ON DEDICATED CIRCUIT
- ⊕ GFI GROUND FAULT INTERRUPT DUPLEX RECEPTACLES
- ⊕ 1/2" COPPER COLD WATER SUPPLY LINE WITH 1/4" REDUCER AND VALVE
- NEW DOOR REFER TO DOOR SCHEDULE
- NEW WINDOW REFER TO WINDOW SCHEDULE
- ⊗ ROOM FINISH REFERENCE NUMBER, REFER TO ROOM FINISH SCHEDULE
- ⊕ WALL LIGHT SWITCH
- NEW FLUORESCENT LIGHT FIXTURE APPROVED LIGHT FIXTURES W/2-F098/735/162/ECO T15P COMPLIANT LAMPS WITH 8200 INITIAL LUMENS AND ELECTRONIC RAPID START BALLASTS WITH ≤ 10% THD:  
- LITHONIA #EJ3-298THD SERIES  
- DAY-BRITE #FS-288HD SERIES  
- METALUX #RT-DCM-288HD SERIES  
- COLUMBA #KLB-298THD SERIES

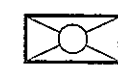
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| JOB NUMBER:                                      | 13002     |
| DESIGNED BY:                                     | DN        |
| DRAWN BY:  | MW        |
| CHECKED BY:                                      | DN        |
| DATE:  | 7.22.13   |
| SHEET NO:  |           |

**RECORD DRAWING**  
02.20.15

**E-3**



**OFFICE REFLECTED CEILING AND LIGHTING PLAN**  
 SCALE: 1/8" = 1'-0"

**KEY**  
 2' x 4' FLUORESCENT LIGHT FIXTURE

**RECORD DRAWING**  
 02.20.15

**RUEDEBUSCH DEVELOPMENT & CONSTRUCTION**  
 DEVELOPMENT • CONSTRUCTION • BROKERAGE • CONSULTING  
 4605 DOVETAIL DRIVE MADISON, WI 53704  
 PHONE 608.249.2012 FAX 608.249.2032

**FedEx Ground**  
 FACILITIES & MATERIAL HANDLING SYSTEMS  
 1000 FedEx Drive  
 Moon Township, PA 15108  
 412-289-1000

This drawing is the Proprietary Property of FedEx Ground Package System, Inc. and must not be used in any other circumstance except in correlation with our work.

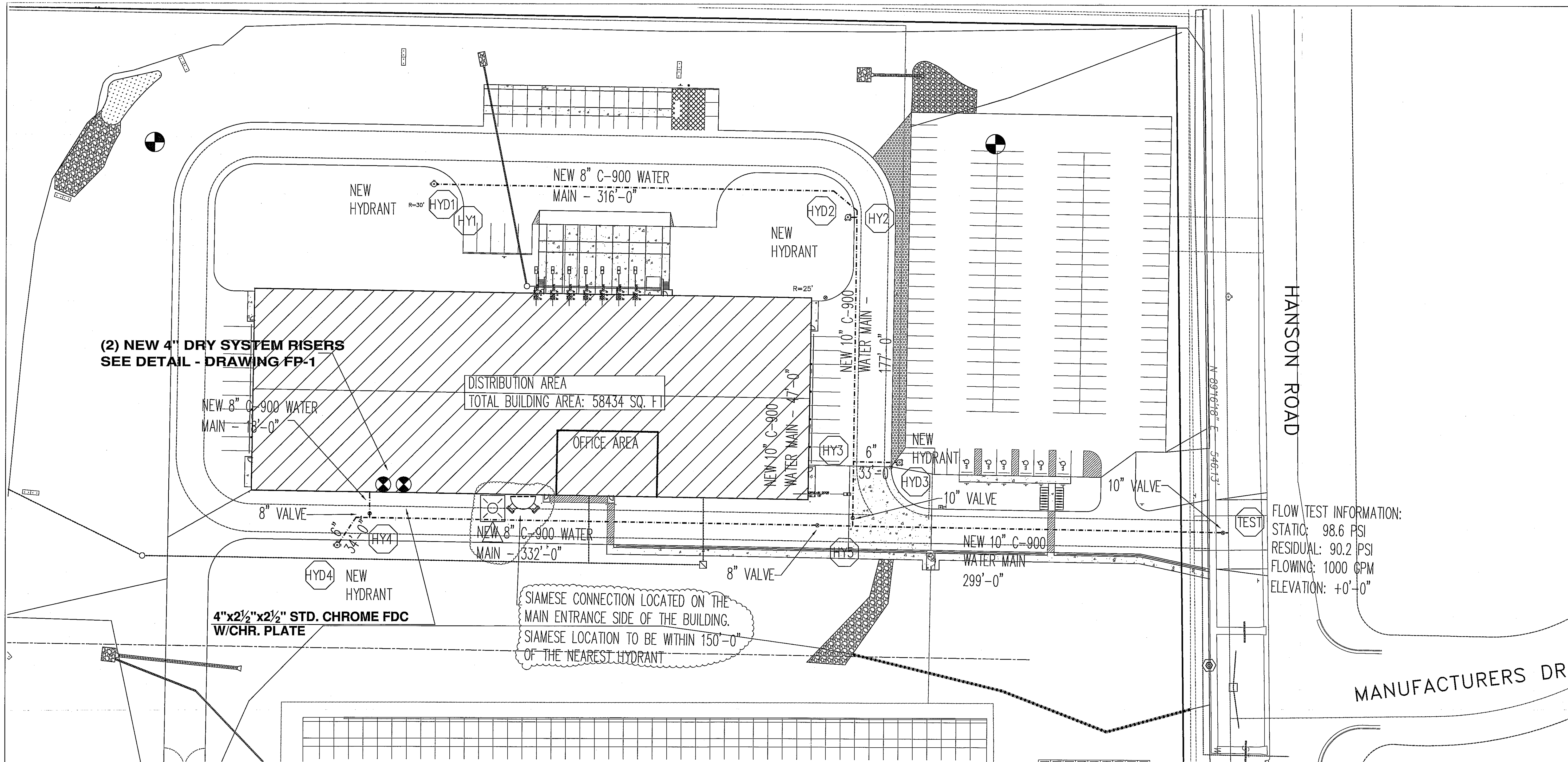
**FED-EX GROUND**  
 HANSON ROAD  
 MADISON, WI

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**SHEET TITLE:**  
 REFLECTED CEILING PLAN

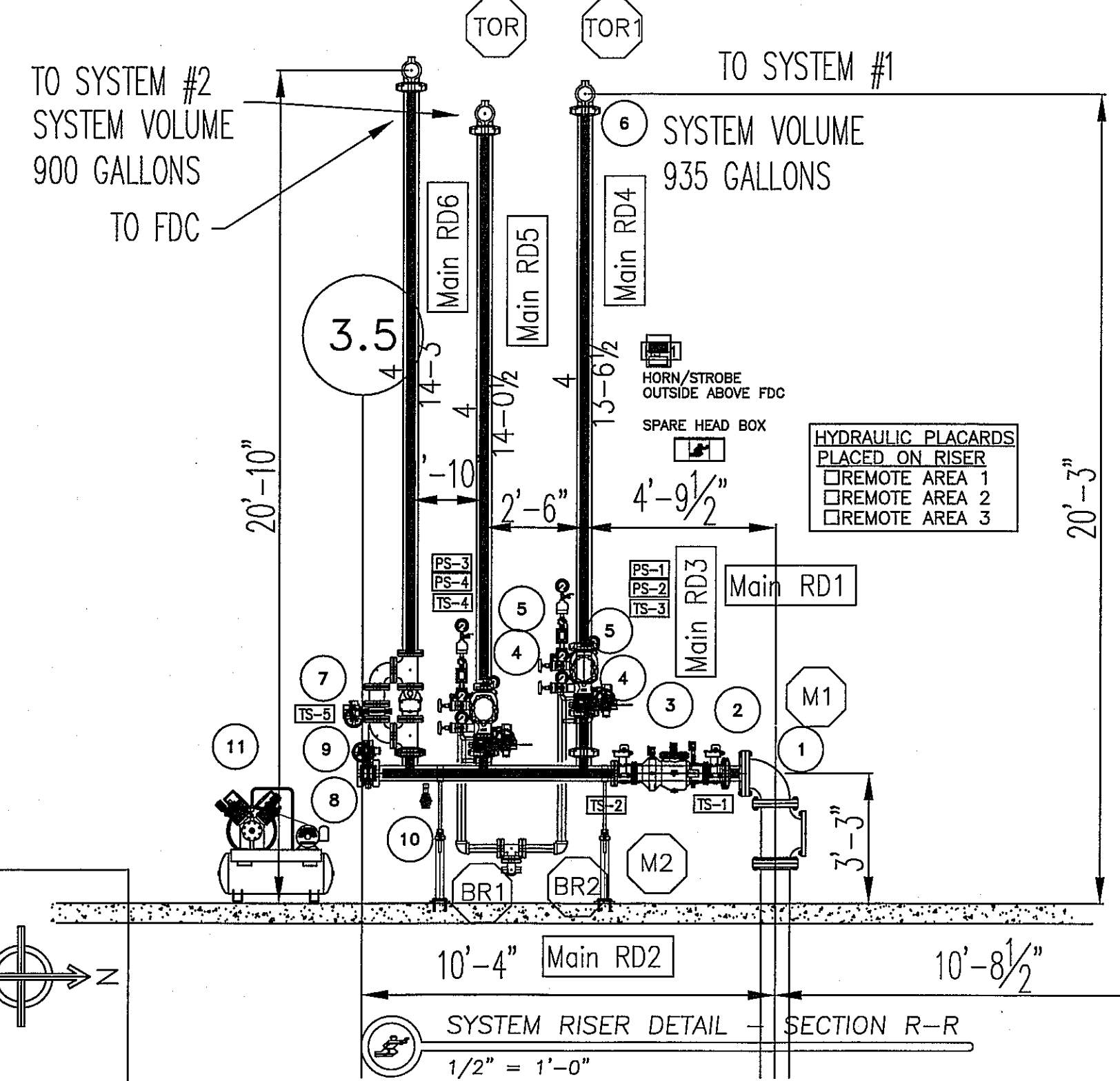
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**DESIGNED BY:** DN  
**DRAWN BY:** MW  
**CHECKED BY:** DN  
**DATE:** 7.22.13  
**SHEET NO.:**

**E-4**



FLOW TEST INFORMATION:  
 STATIC: 98.6 PSI  
 RESIDUAL: 90.2 PSI  
 FLOWING: 1000 GPM  
 ELEVATION: +0'-0"

MANUFACTURERS DRI



3

- 1 8" FLANGED 90° ELL
- 2 4" GALV. SPOOL PIECE X 0-6" GROOVE X FLANGE
- 3 4" WILKINGS DOUBLE CHECK BACKFLOW DEVICE MODEL 350ABGVIC
- 4 4" GRVD BUTTERFLY VALVE
- 5 4" MC DRY-1 DRY PIPE VALVE
- 6 4" GRVD 90° ELL
- 7 4" FDC CHECK VALVE W/ FULL FLOW BY PASS CONNECTION
- 8 4" GRVD DRAIN 90° ELL W/ BALL DRIP
- 9 4" GRVD CAP FOR FUTURE
- 10 1" AUX DRAIN CONNECTION
- 11 AIR COMPRESSOR - TANK MOUNTED C-AIRE MODEL S500 6.1 CFM

NOTE: MONONA PPP TO SUPPLY ALL SPRINKLER-RELATED ELECTRICAL EQUIPMENT. EQUIPMENT TO BE WIRED BY ELECTRICAL CONTRACTOR. OWNER TO PROVIDE CENTRAL STATION MONITORING OF DEVICES.

OWNER MUST KEEP ALL APPROVAL PLANS, LETTERS, TEST REPORTS, AND A COPY OF NFPA 25 AT THE RISER LOCATION.

FORWARD FLOW REQUIREMENTS:  
 520 GPM @ 65 PSI AT BASE OF RISER

| QTY | SYMBOL | EQUIPMENT         | SIGNAL/VOLTAGE       | LOCATION                  |
|-----|--------|-------------------|----------------------|---------------------------|
| 1   | TS-1   | VA. TAMPER SWITCH | SUPERVISORY-N.O./LOW | BACKFLOW CONTROL VALVE    |
| 1   | TS-2   | VA. TAMPER SWITCH | SUPERVISORY-N.O./LOW | BACKFLOW CONTROL VALVE    |
| 1   | TS-3   | VA. TAMPER SWITCH | SUPERVISORY-N.O./LOW | SYSTEM #1 BUTTERFLY VALVE |
| 1   | TS-4   | VA. TAMPER SWITCH | SUPERVISORY-N.O./LOW | SYSTEM #2 BUTTERFLY VALVE |
| 1   | TS-5   | VA. TAMPER SWITCH | SUPERVISORY-N.O./LOW | FDC FULL FLOW TEST VALVE  |
| 1   | PS-1   | PS-10 SWITCH      | ALARM/LOW            | SYSTEM #1-DRY SYSTEM TRIM |
| 1   | PS-2   | PS-40 SWITCH      | SUPERVISORY/LOW      | SYSTEM #1-DRY SYSTEM TRIM |
| 1   | PS-3   | PS-10 SWITCH      | ALARM/LOW            | SYSTEM #2-DRY SYSTEM TRIM |
| 1   | PS-4   | PS-40 SWITCH      | SUPERVISORY/LOW      | SYSTEM #2-DRY SYSTEM TRIM |
| 1   | HS-1   | HORN/STROBE       | ALARM/120V           | RELOCATED ABOVE NORTH FDC |
| 1   |        | AIR COMPRESSOR    | 115 / 200 / 230V     | RISER LOCATION            |

FOR OTHER DETAILS SEE EQUIPMENT DATA SHEETS  
 N.O.-NORMALLY OPEN N.C.-NORMALLY CLOSED

FIRE SPRINKLER PLAN - SITE PLAN  
 1" = 30'-0"

NFPA 7.2.3.6 DRY SYSTEM WATER DELIVERY.

7.2.3.1 THE SYSTEM CAPACITY (VOLUME) CONTROLLED BY A DRY PIPE VALVE SHALL BE DETERMINED BY 7.2.3.7.

7.2.3.7 SYSTEM SIZE SHALL BE SUCH THAT INITIAL WATER DISCHARGE AT SYSTEM TEST VALVE OR MANFOLD OUTLET IS NOT MORE THAN THOSE IN TABLE 7.2.3.6.1 STARTING AT NORMAL AIR PRESSURE ON THE SYSTEM AND AT THE TIME OF FULLY OPENED TEST CONNECTION. WHEN FLOW IS FROM FOUR SPRINKLERS, THE TEST MANIFOLD SHALL BE ARRANGED TO SIMULATE TWO SPRINKLERS ON EACH OF TWO SPRINKLER BRANCH LINES. A SYSTEM MEETING THE REQUIREMENTS OF THIS SECTION SHALL NOT BE REQUIRED TO ALSO MEET THE REQUIREMENTS OF 7.2.3.2 OR 7.2.3.5.

REVIEWERS NOTE:  
 THE AIR COMPRESSOR IS BASED ON THE VICTAULIC DRY PIPE VALVE REQUIREMENTS FOR 6 CFM TO PROVIDE A MAX 20 PSI AIR PRESSURE PER EQUIPMENT

**ORDINARY HAZARD** (OH2)

5.3.2\* Ordinary Hazard (Group 2). Ordinary hazard (Group 2) occupancies shall be defined as occupancies or portions of other occupancies where the quantity and combustibility of contents are moderate to high, stockpiles do not exceed 12 ft (3.7 m), and fires with moderate to high rates of heat release are expected.

A.5.3.2 Ordinary hazard occupancies (Group 2) include occupancies having uses and conditions similar to the following:  
 Machine shops  
 Metal working  
 Mercantile  
 Printing and publishing  
 Repair garages  
 Resin application area  
 Stages  
 Textile manufacturing  
 Tire manufacturing

ANY CHANGES TO STORAGE OR USE OF THE BUILDING MUST BE BROUGHT TO THE ATTENTION OF THE FIRE DEPT. & SPRINKLER CONTRACTOR.

SCOPE OF WORK  
 INSTALL AND TEST NEW SPRINKLER SYSTEM WITH VALVES AND EQUIPMENT TO COVER THE ENTIRE BUILDING PER OUR SCOPE TO COMPLY WITH (NFPA-13) ANY CHANGES TO THE WORK OR LAYOUT MUST BE IN WRITING FROM THE SPRINKLING WORK.

SYSTEM DESIGN  
 (1) DRY SPRINKLER SYSTEMS ARE TO BE DESIGNED PER NFPA-13.  
 (2) PIPE SIZES TO BE PER HYDRAULIC CALCULATIONS TYPICALLY.  
 UTILIZING NEW (OR QUICK RESPONSE) SPRINKLERS  
 OWNER TO MAINTAIN 18" OF CLEARANCE BELOW SPRINKLER DEFLECTORS TO ANY STORAGE OR OBSTRUCTIONS TYPICALLY.  
 HOSE ALLOWANCE TO BE ADDED AT RISER: 100 GPM FOR LIGHT HAZARD & 250 GPM FOR ORDINARY HAZARD  
 ALL SPRINKLER LAYOUTS TO BE PER NFPA-13 (FOR COVERAGE AND OBSTRUCTIONS)

HANGERS  
 PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING AND/OR DEVICES ARE TO BE ATTACHED TO THE SPRINKLER PIPE HANGER SYSTEM UNLESS THE HANGER HAS BEEN SPECIFICALLY DESIGNED FOR THE ADDITIONAL LOADING. THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICES TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.

PIPE MATERIALS  
 ALL PIPE TO BE GALVANIZED STEEL WITH BLACK DUCTILE CLASS 125 BROW FITTINGS WITH JOINTS AS PER NFPA. PIPE SHALL BE AS PER THE FOLLOWING SCHEDULE: (UNLESS NOTED OTHERWISE)  
 THREADED BRANCH LINE PIPING - SCH. 40 GALV  
 WELDED BRANCH LINE PIPING - SCH. 10 GALV  
 CROSS-MAN PIPING - SCH. 10 GALV  
 BLANK FEED PIPING - SCH. 10 GALV  
 RISER PIPING - SCHEDULE 10 GALV

SHUT-DOWNS & CONNECTIONS  
 BEFORE SHUTTING OFF A SECTION OF THE FIRE SERVICES TO MAKE SPRINKLER OR STANDPIPE SYSTEM CONNECTIONS OR MODIFICATIONS, PROVIDE AND COORDINATE A FIRE-PLAN THAT INCLUDES THE FOLLOWING: PROPER NOTIFICATION WITH 24HR NOTICE TO OWNER, FIRE DEPT. AND ALL AFFECTED. SHALL NOTIFY THE A.J.H. OWNER'S IMPAIRMENT COORDINATOR, INSURANCE CARRIER, ALARM COMPANY AND ARCHITECT/ENGINEER.

PROVIDE TAGS INDICATING THAT A SYSTEM OR PART OF HAS BEEN REMOVED FROM SERVICE AND POST AT EACH FDC, AFFECTED CONTROL VALVE, ALARM CONTROL PANEL AND AS DIRECTED BY THE A.J.H.

MAINTENANCE  
 THE BUILDING OWNER SHALL BE RESPONSIBLE FOR MAINTAINING TEMPERATURES AT OR ABOVE 40°F IN ALL AREAS PROTECTED BY A WET SPRINKLER SYSTEM. THE OWNER SHALL PROTECT ALL WET PIPE SPRINKLERS AND SYSTEM COMPONENTS FROM FREEZING.

THE BUILDING OWNER SHALL BE RESPONSIBLE FOR THE PROPER INSPECTION, TESTING, AND MAINTENANCE (ACCORDING TO NFPA-25) OF ALL SPRINKLER & STANDPIPE SYSTEMS AND COMPONENTS.

RECORD DRAWING 6/30/14

MONONA PLUMBING AND FIRE PROTECTION, INC.  
 3126 WATERFORD WAY MADISON, WI 53713  
 608-273-1456  
 608-273-3446

REVISIONS

| NO. | DATE    | DESCRIPTION   |
|-----|---------|---|
| 1   | 6-30-14 | ISSUED DRAWING ADDRESS FOR ITS COMMENTS, REVISED CALCULATIONS |
| 2   |         | REVISED PER PLAN, ADDED DETAIL HANGERS NOTES                  |

| SYMBOL                   | DESCRIPTION              |
|--------------------------|--------------------------|
| EXISTING SPRINKLER PIPE  | EXISTING SPRINKLER PIPE  |
| NEW SPRINKLER PIPE       | NEW SPRINKLER PIPE       |
| EXISTING MECHANICAL TRIM | EXISTING MECHANICAL TRIM |
| NEW MECHANICAL TRIM      | NEW MECHANICAL TRIM      |
| EXISTING HYDRANT         | EXISTING HYDRANT         |
| NEW HYDRANT              | NEW HYDRANT              |
| EXISTING VALVE           | EXISTING VALVE           |
| NEW VALVE                | NEW VALVE                |
| EXISTING RISER           | EXISTING RISER           |
| NEW RISER                | NEW RISER                |
| EXISTING HANGER          | EXISTING HANGER          |
| NEW HANGER               | NEW HANGER               |
| EXISTING HAMMER LOCATION | EXISTING HAMMER LOCATION |
| NEW HAMMER LOCATION      | NEW HAMMER LOCATION      |

**FED. EX. GROUND SITE PLAN**

ADDRESS:  
 3829 HANSON ROAD  
 MADISON, WI.

PROJECT NUMBER  
 13-078S

DATE  
 8-1-2013

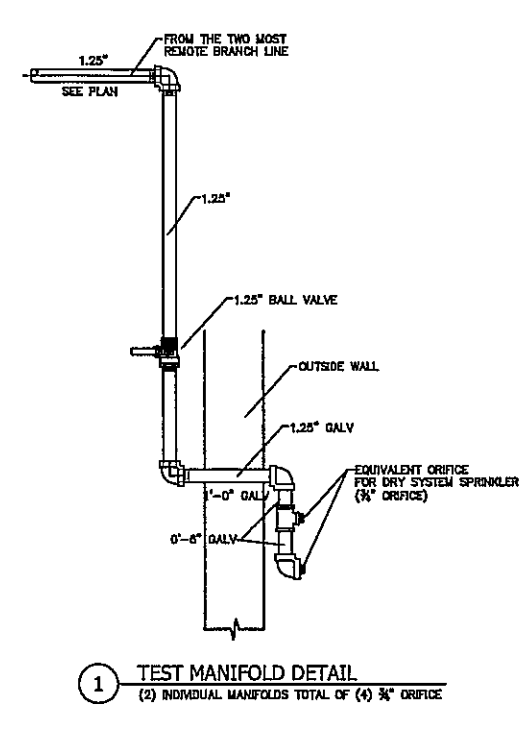
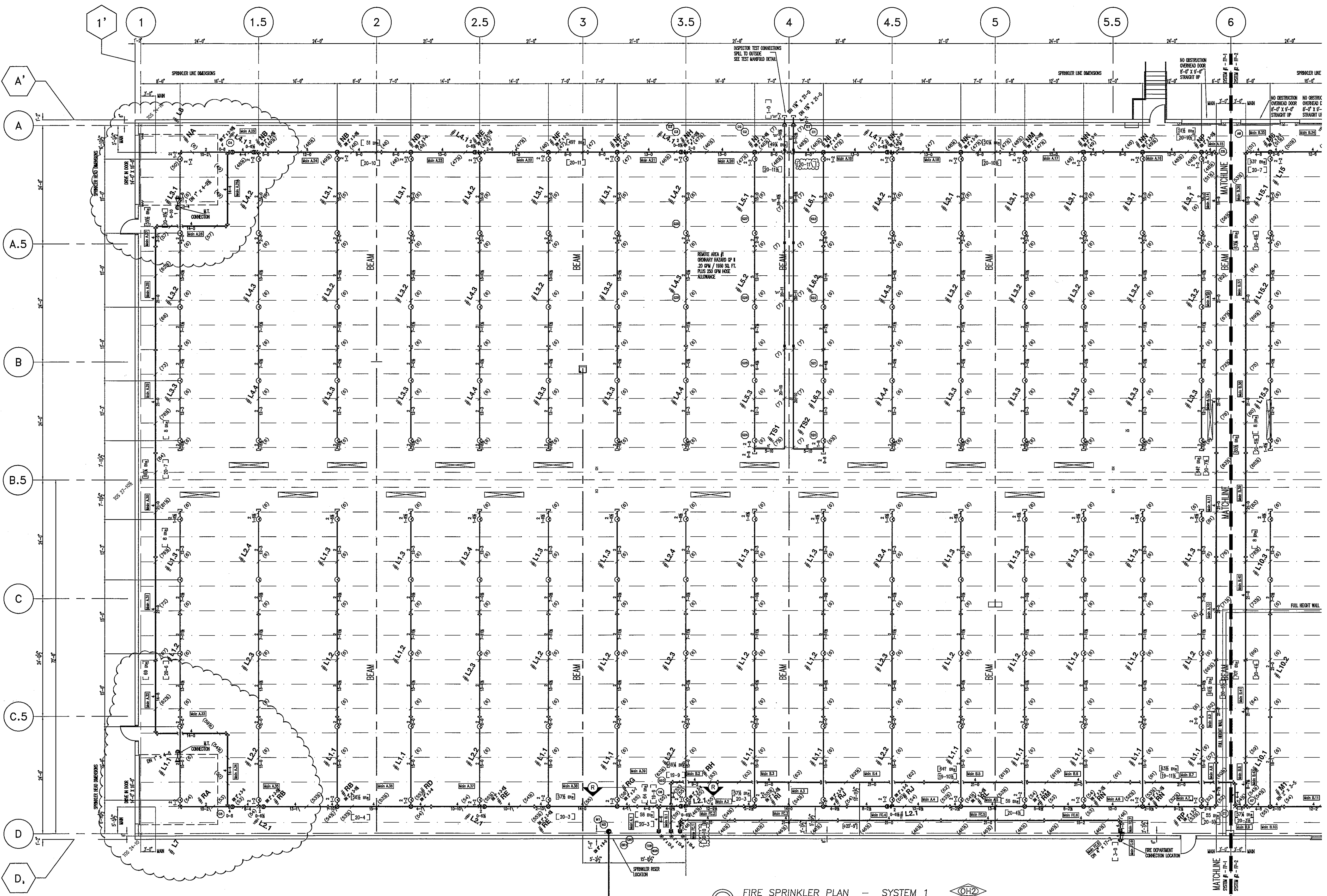
DRAWN BY  
 BDORR

SHEET NUMBER  
 FP 1 of 4

**FIRE PROTECTION SHEET INDEX**

|      |                                    |
|------|------------------------------------|
| FP-1 | SITE, GENERAL NOTES, RISER DETAIL  |
| FP-2 | PARTIAL FIRE PROTECTION PLAN SOUTH |
| FP-3 | PARTIAL FIRE PROTECTION PLAN NORTH |
| FP-4 | OFFICE AREA - FIRE PROTECTION PLAN |





FIRE SPRINKLER PLAN - SYSTEM 1  
 1/8" = 1'-0" 32,262 SQ. FT. FLOOR EL. (0'-0")

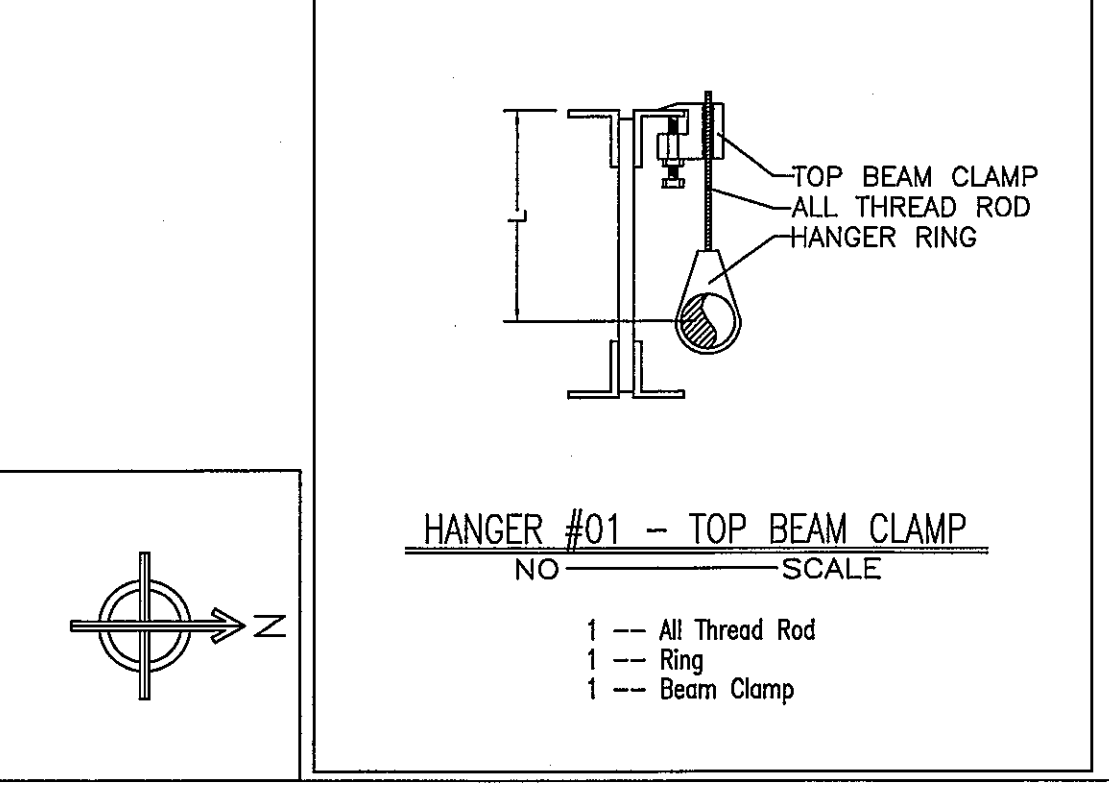
**HYDRAULIC CALCULATION - REMOTE AREA 1**  
 DESIGN CRITERIA: NFPA 13 - ORDINARY HAZARD GP II  
 DENSITY: 20 GPM OVER HYDRAULICALLY MOST DEMANDING 1950 SQ FT  
 CALCULATING 10 SPRINKLERS @ 256 SQ. FT. MAXIMUM SPACING  
 TOTAL DEMAND @ BR1: 566.39 GPM @ 81.853 PSI  
 OUTSIDE HOSE ALLOWANCE: 250 GPM  
 SYSTEM SAFETY FACTOR: 16.70 PSI

| PIPE TYPES AND UNITS |             |             |
|----------------------|-------------|-------------|
| Z1-SPK-BR-           | 162         |             |
| Z1-SPK-DR-           |             |             |
| BRANCH LINES         |             |             |
| DIAMETER (NOM. INCH) | LENGTH (FT) | TYPE        |
| 1                    | 20          | GALV SCH 40 |
| 1 1/2                | 266         | GALV SCH 40 |
| 2                    | 2048        | GALV SCH 40 |
| MAINS                |             |             |
| DIAMETER (NOM. INCH) | LENGTH (FT) | TYPE        |
| 4                    | 862         | GALV SCH 40 |
| INCLUDES FDC RUN     |             |             |

| AUTOMATIC FIRE SPRINKLER LEGEND   |     |       |        |      |      |      |      |                              |          |
|---|-----|-------|--------|------|------|------|------|------------------------------|----------|
| SYM   | QTY | MODEL | SIN    | TEMP | K    | RESP | SIZE | DESCRIPTION                  | TRIM/ESC |
| ⊙   | 160 | TYCO  | TY6137 | 286  | 14.0 | SR   | 3/4" | TYCO ECOH SR UPRIGHT         | N/A      |
| ◁   | 2   | TYCO  | TY6332 | 200  | 11.2 | SR   | 3/4" | TYCO SW-20 SIDEWALL OH BRASS | N/A      |
| TOTAL 162   |     |       |        |      |      |      |      |                              |          |
| THE BUILDING OWNER SHALL BE RESPONSIBLE FOR MAINTAINING TEMPERATURES AT OR ABOVE 40°F IN ALL AREAS WHERE NET SPRINKLER PIPING IS LOCATED. THE OWNER SHALL PROTECT ALL NET PIPE SPRINKLERS AND SYSTEM COMPONENTS FROM FREEZING AT ALL TIMES. |     |       |        |      |      |      |      |                              |          |
| THE BUILDING OWNER SHALL BE RESPONSIBLE FOR THE PROPER INSPECTION, TESTING, AND MAINTENANCE IN ACCORDANCE WITH NFPA 25. THIS IS FOR ALL SPRINKLER/STANDPIPE SYSTEMS AND COMPONENTS.   |     |       |        |      |      |      |      |                              |          |

**ORDINARY HAZARD** (OH2)  
 5.3.2\* Ordinary Hazard (Group 2). Ordinary hazard (Group 2) occupancies shall be defined as occupancies or portions of other occupancies where the quantity and combustibility of contents are moderate to high, stockpiles do not exceed 12 ft (3.7 m), and fires with moderate to high rates of heat release are expected.  
 A.5.3.2 Ordinary hazard occupancies (Group 2) include occupancies having uses and conditions similar to the following:  
 Machine shops Metal working  
 Mercantile Post offices  
 Printing and publishing Repair garages  
 Resin application area  
 Storage Textile manufacturing  
 Tire manufacturing  
 ANY CHANGES TO STORAGE OR USE OF THE BUILDING MUST BE BROUGHT TO THE ATTENTION OF THE FIRE DEPT. & SPRINKLER CONTRACTOR

RECORD DRAWING 6/30/14



**MONONA PLUMBING AND FIRE PROTECTION, INC.**  
 3126 WATFORD WAY MADISON, WI 53713  
 608-273-4556

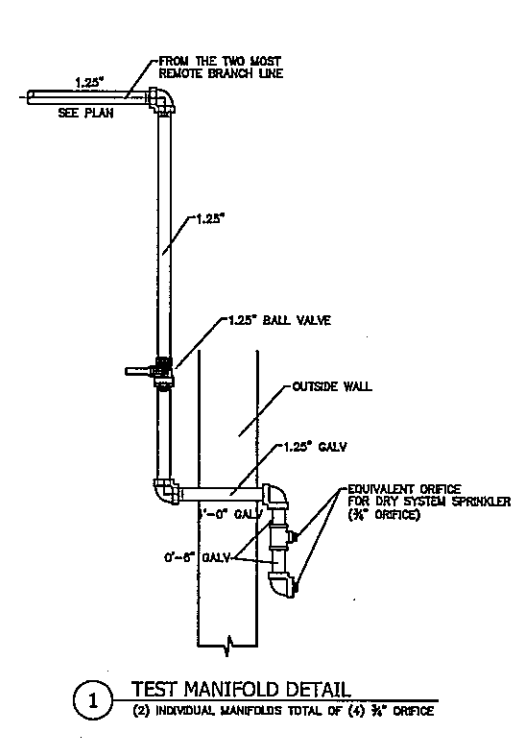
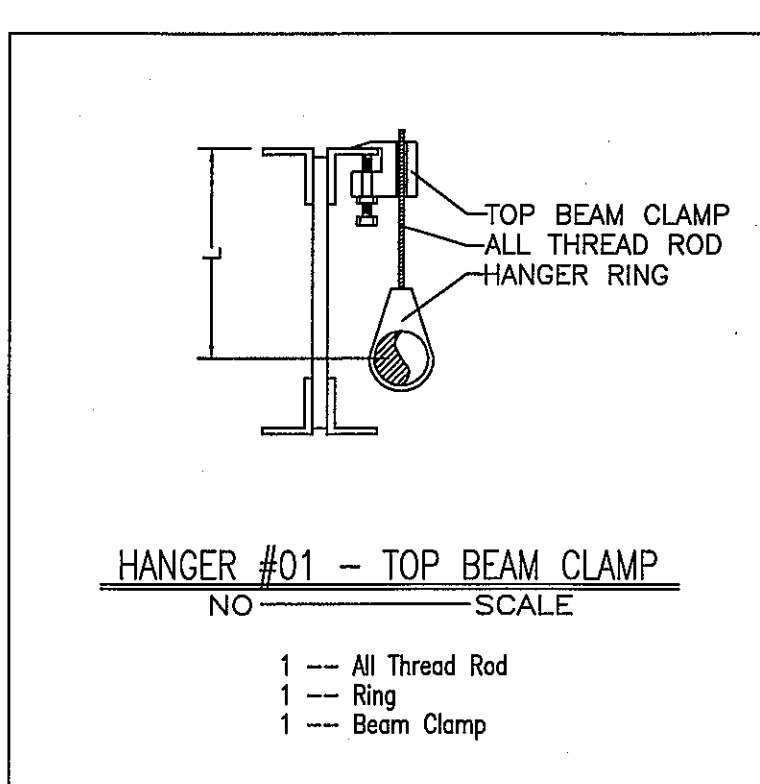
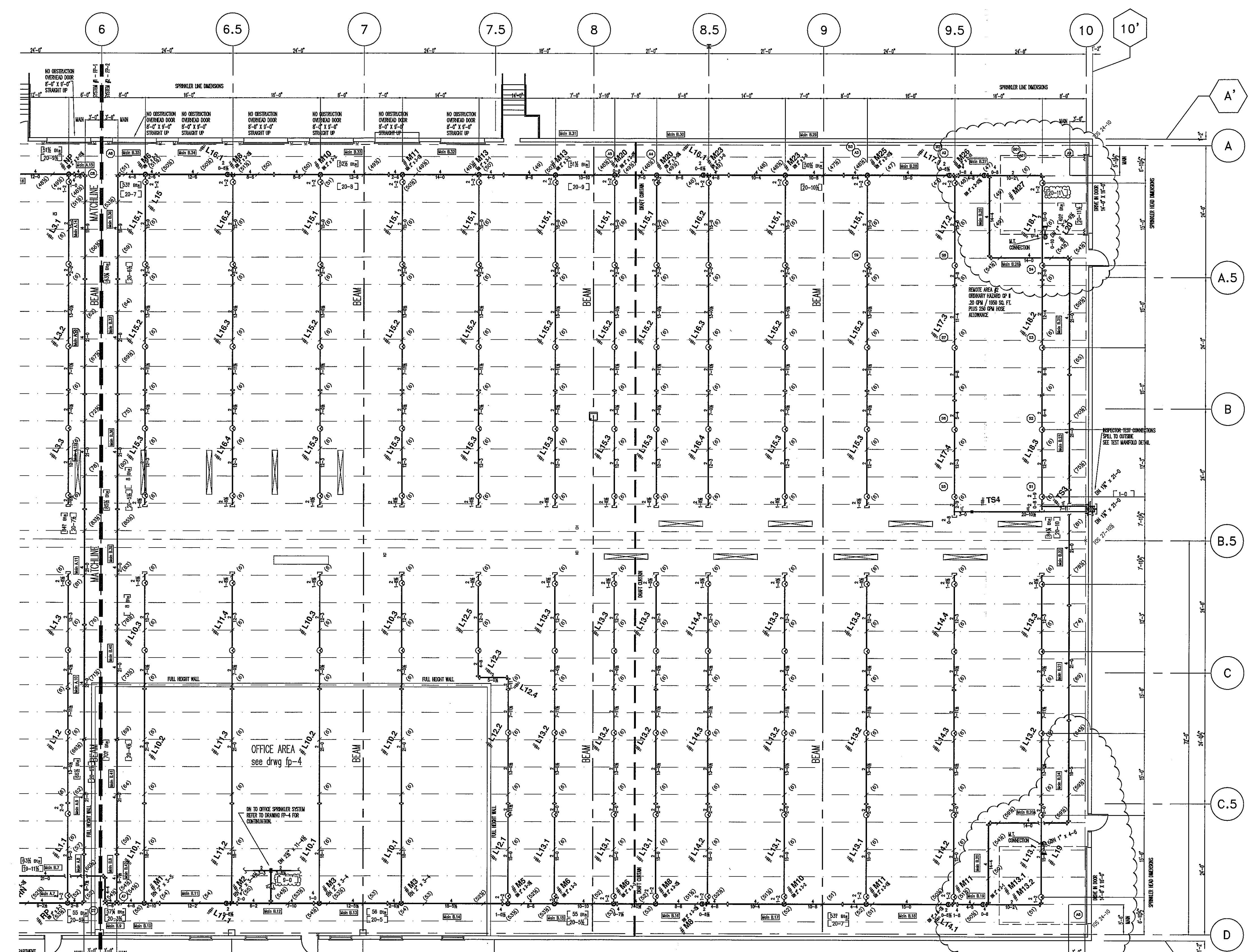
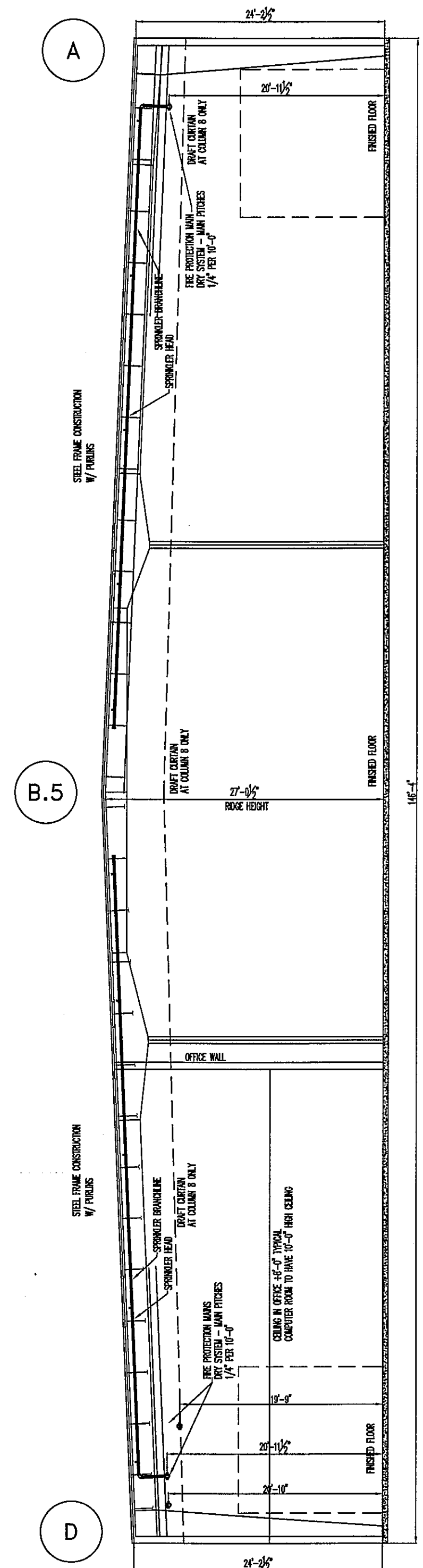
**FED. EX. GROUND FIRE PROTECTION PLAN SYSTEM #1**

ADDRESS: 3829 HANSON ROAD MADISON, WI

| REVISIONS |  |
|-----------|--|
| NO.       | DESCRIPTION  |
| 1         | ISSUED DRAWING AGAINST PER TO COMPLETE REVISION CALCULATIONS |

| SYMBOL | DESCRIPTION                    |
|--------|--------------------------------|
| W.P.   | WALL PENETRATION               |
| ⊙      | SPRINKLER                      |
| ◁      | LOW POINT DRAIN                |
| ⊙      | CEILING HOOK                   |
| ⊙      | PIPE CENTER BELOW TOP OF STEEL |
| ⊙      | PIPE CENTER ABOVE TOP OF STEEL |
| ⊙      | HYDRAULIC CALCULATION NODE     |
| ⊙      | REVISION NUMBER TAG            |
| ⊙      | MAIN FABRICATION TAG           |
| ⊙      | BRANCH FABRICATION TAG         |
| ⊙      | MANIFOLD LOCATION              |

PROJECT NUMBER: 13-078S  
 DATE: 8-1-2013  
 DRAWN BY: BDORR  
 SHEET NUMBER: FP 2 of 4



**PIPE TYPES AND UNITS**

|           |     |
|-----------|-----|
| Z1-SPK-SR | 120 |
| Z1-SPK-DR |     |

**BRANCH LINES**

| DIAMETER (NOM. INCH) | LENGTH (FT) | TYPE        |
|----------------------|-------------|-------------|
| 1                    | 21          | GALV SCH 40 |
| 1 1/2                | 129         | GALV SCH 40 |
| 2                    | 1676        | GALV SCH 40 |

**MAINS**

| DIAMETER (NOM. INCH) | LENGTH (FT) | TYPE        |
|----------------------|-------------|-------------|
| 4                    | 745         | GALV SCH 40 |

**AUTOMATIC FIRE SPRINKLER LEGEND**

| SYM | QTY | MODEL | SIN    | TEMP | K    | RESP | SIZE | DESCRIPTION                  | TRIM/ESC |
|-----|-----|-------|--------|------|------|------|------|------------------------------|----------|
| ⊙   | 118 | TYCO  | TY6137 | 286  | 14.0 | SR   | 3"   | TYCO ECHO SR UPRIGHT         | N/A      |
| ◁   | 2   | TYCO  | TY5332 | 200  | 11.2 | SR   | 1/2" | TYCO SW-20 SIDEWALL OH BRASS | N/A      |

TOTAL 120

DESIGN CRITERIA: NFPA 13 - ORDINARY HAZARD GP II  
 DENSITY: 20 GPM OVER HYDRAULICALLY MOST DEMANDING 1950 SQ FT  
 CALCULATING 9 SPRINKLERS @ 250 SQ. FT. MAXIMUM SPACING  
 TOTAL DEMAND @ 502: 220.0 GPM @ 68.342 PSI  
 OUTSIDE HOSE ALLOWANCE: 250 GPM  
 SYSTEM SAFETY FACTOR: 17.40 PSI

THE BUILDING OWNER SHALL BE RESPONSIBLE FOR MAINTAINING TEMPERATURES AT OR ABOVE 40°F IN ALL AREAS WHERE WET SPRINKLER PIPING IS LOCATED. THE OWNER SHALL PROTECT ALL WET PIPE SPRINKLERS AND SYSTEM COMPONENTS FROM FREEZING AT ALL TIMES.  
 THE BUILDING OWNER SHALL BE RESPONSIBLE FOR THE PROPER INSPECTION, TESTING, AND MAINTENANCE IN ACCORDANCE WITH NFPA 25. THIS IS FOR ALL SPRINKLER/STANDPIPE SYSTEMS AND COMPONENTS.

**FIRE SPRINKLER PLAN - SYSTEM 2**  
 1/8" = 1'-0" 26,172 SQ. FT. FLOOR EL. (0'-0")

**HYDRAULIC CALCULATION - REMOTE AREA 2**  
 DESIGN CRITERIA: NFPA 13 - ORDINARY HAZARD GP II  
 DENSITY: 20 GPM OVER HYDRAULICALLY MOST DEMANDING 1950 SQ FT  
 CALCULATING 9 SPRINKLERS @ 250 SQ. FT. MAXIMUM SPACING  
 TOTAL DEMAND @ 502: 220.0 GPM @ 68.342 PSI  
 OUTSIDE HOSE ALLOWANCE: 250 GPM  
 SYSTEM SAFETY FACTOR: 17.40 PSI

**ORDINARY HAZARD (OH2)**  
 5.3.2\* Ordinary Hazard (Group 2). Ordinary hazard (Group 2) occupancies shall be defined as occupancies or portions of other occupancies where the quantity and combustibility of contents are moderate to high, stockpiles do not exceed 12 ft (3.7 m), and fires with moderate to high rates of heat release are expected.  
 5.3.2.2 Ordinary hazard occupancies (Group 2) include occupancies having uses and conditions similar to the following:  
 Machine shops Metal working  
 Mercantile Post offices  
 Printing and publishing Repair garages  
 Retail application area  
 Stages Textile manufacturing  
 Tire manufacturing  
 ANY CHANGES TO STORAGE OR USE OF THE BUILDING MUST BE BROUGHT TO THE ATTENTION OF THE FIRE DEPT. & SPRINKLER CONTRACTOR.

RECORD DRAWING 6/30/14

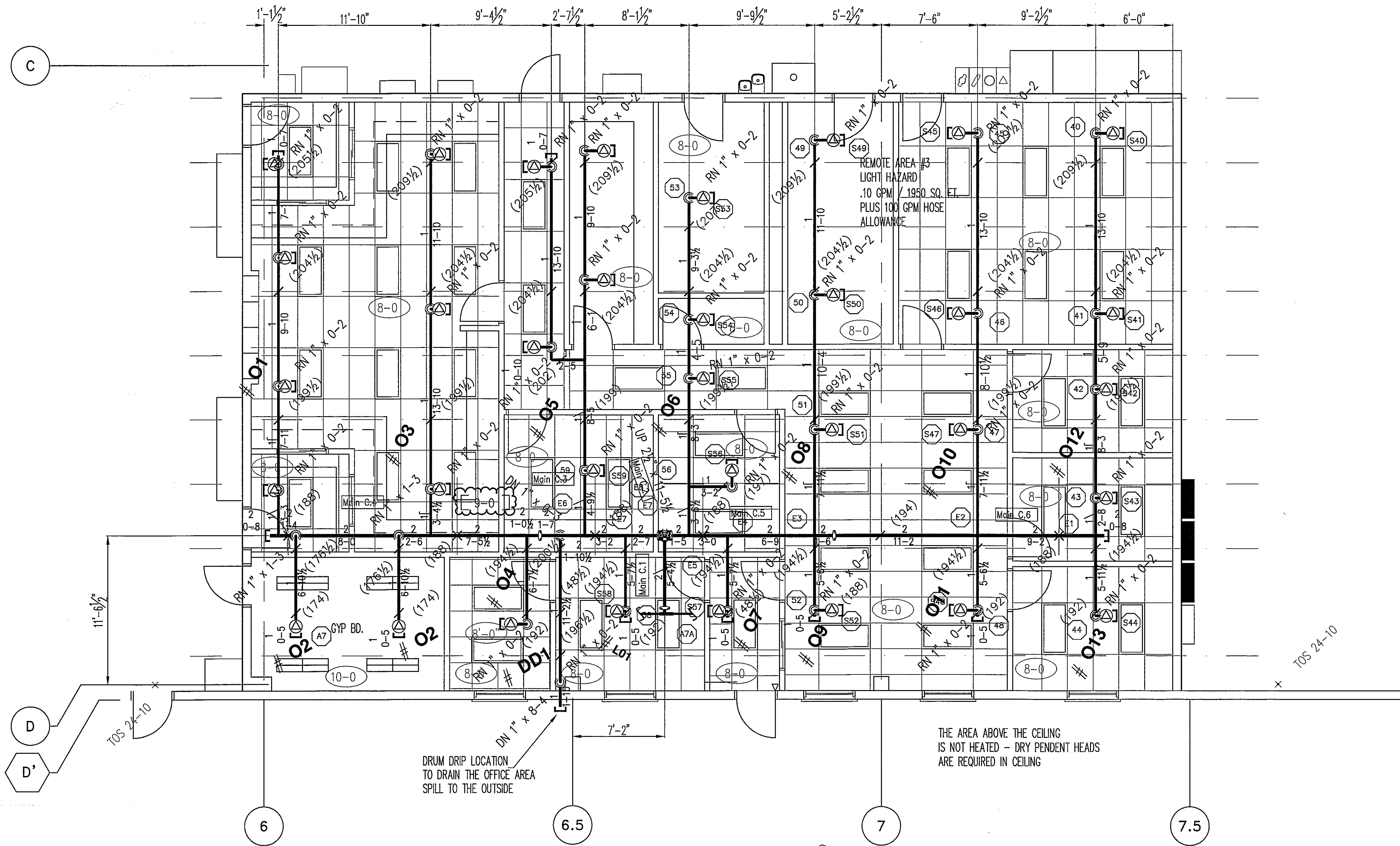
**MONONA PLUMBING AND FIRE PROTECTION, INC.**  
 3126 WATFORD WAY MADISON, WI 53713  
 608-273-4556  
 608-273-3446

| NO. | DATE     | DESCRIPTION  |
|-----|----------|--|
| 1   | 10-23-13 | REVISED DRAWING BASED ON PER TO COMMENTS, REVISED CALCULATIONS |

**REVISIONS**

| SYMBOL | DESCRIPTION           | INSTALL LOCATION     | DATE |
|--------|-----------------------|----------------------|------|
| (S)    | NEW SPRINKLER PIPE    | ENTIRE SPRAWLER PIPE |      |
| (M)    | NEW SPRINKLER PIPE    | ENTIRE SPRAWLER PIPE |      |
| (C)    | CEILING HEIGHT        | ENTIRE SPRAWLER PIPE |      |
| (E)    | PIPE CENTER ELEVATION | ENTIRE SPRAWLER PIPE |      |
| (L)    | PIPE CENTER ELEVATION | ENTIRE SPRAWLER PIPE |      |
| (R)    | PIPE CENTER ELEVATION | ENTIRE SPRAWLER PIPE |      |
| (A)    | REVISION NUMBER TAG   | ENTIRE SPRAWLER PIPE |      |
| (F)    | LINE FABRICATION TAG  | ENTIRE SPRAWLER PIPE |      |
| (H)    | HANGER LOCATION       | ENTIRE SPRAWLER PIPE |      |

**FED. EX. GROUND FIRE PROTECTION PLAN SYSTEM #2**  
 ADDRESS: 3829 HANSON ROAD MADISON, WI.  
 PROJECT NUMBER: 13-078S  
 DATE: 8-1-2013  
 DRAWN BY: BDORR  
 SHEET NUMBER: FP 3 of 4



FIRE SPRINKLER PLAN - SYSTEM 2 OFFICE  
 1/4" = 1'-0" 3,272 SQ. FT. FLOOR EL. (0'-0")

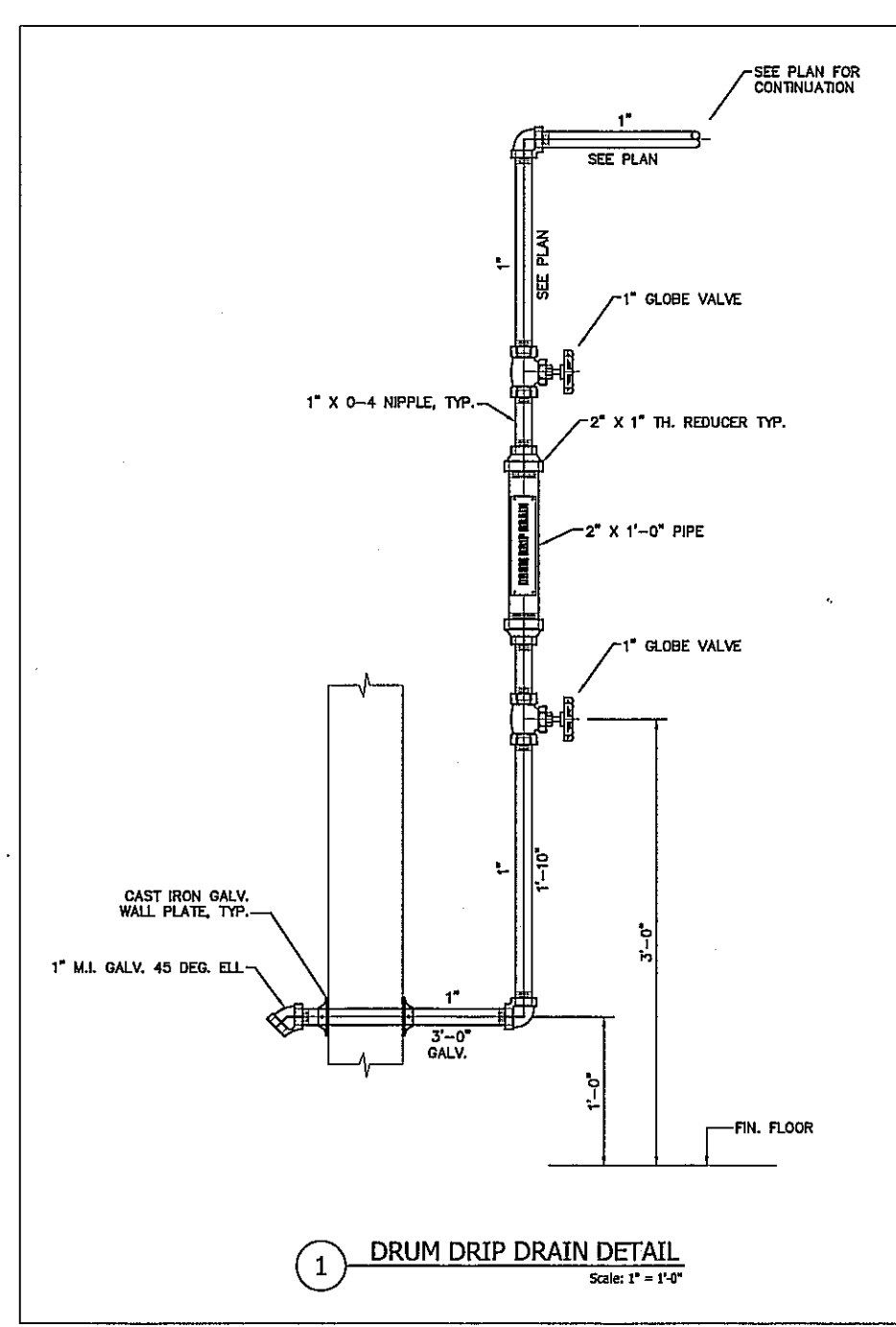
| PIPE TYPES AND UNITS |             |             |
|----------------------|-------------|-------------|
| Z1-SPK-BR            | 34          |             |
| Z1-SPK-DR            | 34          |             |
| BRANCH LINES         |             |             |
| DIAMETER (NOM. INCH) | LENGTH (FT) | TYPE        |
| 1                    | 294         | GALV SCH 40 |
| 1 1/2                | 45          | GALV SCH 40 |
| 1 1/2                | 24          | GALV SCH 40 |
| 2                    | 65          | GALV SCH 40 |
| MAINS                |             |             |
| DIAMETER (NOM. INCH) | LENGTH (FT) | TYPE        |
| 2 1/2                | 19          | GALV SCH 40 |

| AUTOMATIC FIRE SPRINKLER LEGEND |     |       |        |      |     |      |      |                                |          |
|---------------------------------|-----|-------|--------|------|-----|------|------|--------------------------------|----------|
| SYM                             | QTY | MODEL | SIN    | TEMP | K   | RESP | SIZE | DESCRIPTION                    | TRIM/ESC |
| ⊙                               | 34  | TYCO  | TY3235 | 155  | 5.6 | QR   | 1/2" | TYCO DS-1 DRY PENDENT RECESSED | STYLE 20 |
| TOTAL 34                        |     |       |        |      |     |      |      |                                |          |

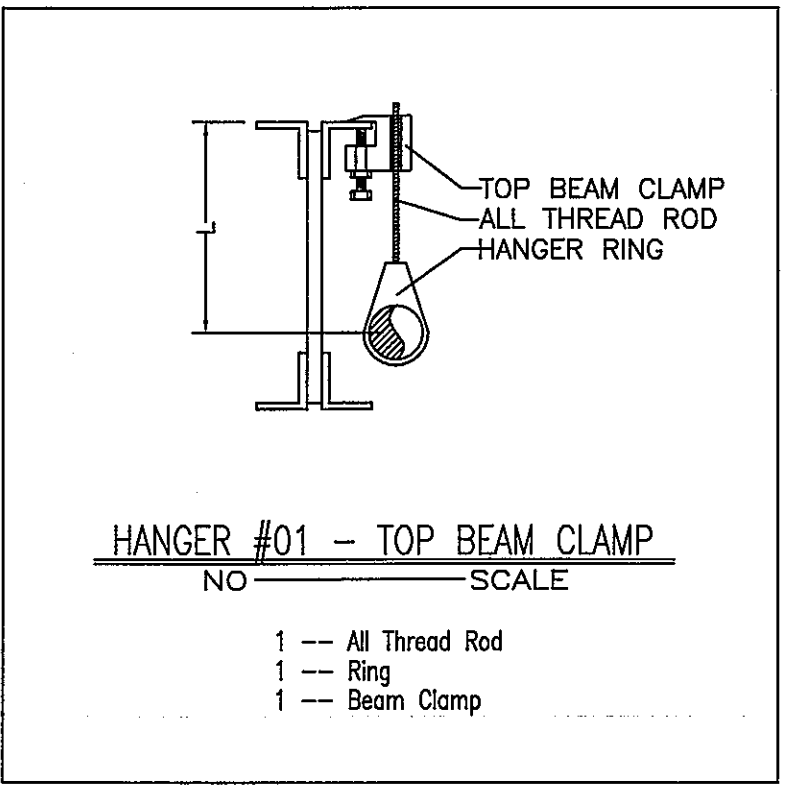
THE BUILDING OWNER SHALL BE RESPONSIBLE FOR MAINTAINING TEMPERATURES AT OR ABOVE 40°F IN ALL AREAS WHERE WET SPRINKLER PIPING IS LOCATED. THE OWNER SHALL PROTECT ALL WET PIPE SPRINKLERS AND SYSTEM COMPONENTS FROM FREEZING AT ALL TIMES.

THE BUILDING OWNER SHALL BE RESPONSIBLE FOR THE PROPER INSPECTION, TESTING, AND MAINTENANCE IN ACCORDANCE WITH NFPA 25. THIS IS FOR ALL SPRINKLER/STANDPIPE SYSTEMS AND COMPONENTS.

HYDRAULIC CALCULATION - REMOTE AREA 3  
 DESIGN CRITERIA: NFPA 13 - LIGHT HAZARD  
 DENSITY: .10 GPM OVER HYDRAULICALLY MOST DEMANDING 1950 SQ FT  
 CALCULATING: 20 SPRINKLERS @ 199 SQ. FT. MAXIMUM SPACING  
 TOTAL DEMAND @ BR2: 349.00 GPM @ 61.67 PSI  
 OUTSIDE HOSE ALLOWANCE: 100 GPM  
 SYSTEM SAFETY FACTOR: 28.28 PSI



1 DRUM DRIP DRAIN DETAIL  
 Scale: 1" = 1'-0"



HANGER #01 - TOP BEAM CLAMP  
 NO. SCALE

| REVISIONS            |  |
|----------------------|--|
| NO.                  | DATE   |
| 1                    | 8-22-13  |
| REVISION DESCRIPTION |  |
| 1                    | REVISED DRAWING ADDRESS FOR COMMENTS, REVISED CALCULATIONS |

| SYMBOL | DESCRIPTION               |
|--------|---------------------------|
| ⊙      | EXISTING SPRINKLER PIPING |
| ⊙      | NEW SPRINKLER PIPING      |
| ⊙      | WET PIPE EXISTING PIPING  |
| ⊙      | WET PIPE EXISTING PIPING  |
| ⊙      | OCCUPANCY CLASSIFICATION  |
| ⊙      | ⊙ LIGHT HAZARD            |
| ⊙      | ⊙ SECONDARY HAZARD I      |
| ⊙      | ⊙ SECONDARY HAZARD II     |
| ⊙      | ⊙ SECONDARY HAZARD III    |
| ⊙      | ⊙ EXTRA HAZARD I          |
| ⊙      | ⊙ EXTRA HAZARD II         |
| ⊙      | ⊙ EXTRA HAZARD III        |
| ⊙      | STORAGE HAZARD            |

FED. EX GROUND  
 OFFICE AREA FIRE  
 PROTECTION PLAN  
 ADDRESS:  
 3829 HANSON ROAD  
 MADISON, WI.

PROJECT NUMBER  
 13-078S  
 DATE  
 8-1-2013  
 DRAWN BY  
 BDORR  
 SHEET NUMBER  
 FP 4 of 4

RECORD DRAWING 6/30/14

OWNER'S NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING PIPING AND OCCUPANCY CLASSIFICATION. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, 2010 EDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND TESTING OF ALL SPRINKLER PIPING AND COMPONENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER MAINTENANCE AND TESTING OF ALL SPRINKLER PIPING AND COMPONENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.