

**Agenda Item #7 – Ratliff Building - Signed and Sealed Drawings**

1. 100% signed and sealed drawings delivered in hard copy for county files per court request to allow construction start on Ratliff renovation. Digital files available also. (\$6400 previously approved by court for design team fees)
2. Elections Administration has moved out and building is ready for demolition efforts. Ratliff renovation can start today with demolition of interiors. County to provide county dumpster service.
3. Fire alarm system to be disconnected today.
4. Construction costs previously approved include \$193,000 for Richard Jones, CA costs of \$23,160 and \$7000 for new phone system. Construction estimated NTE 120 calendar days.
5. Additional known future project costs yet to be identified include furniture, security cameras, and fire alarm reconnect.

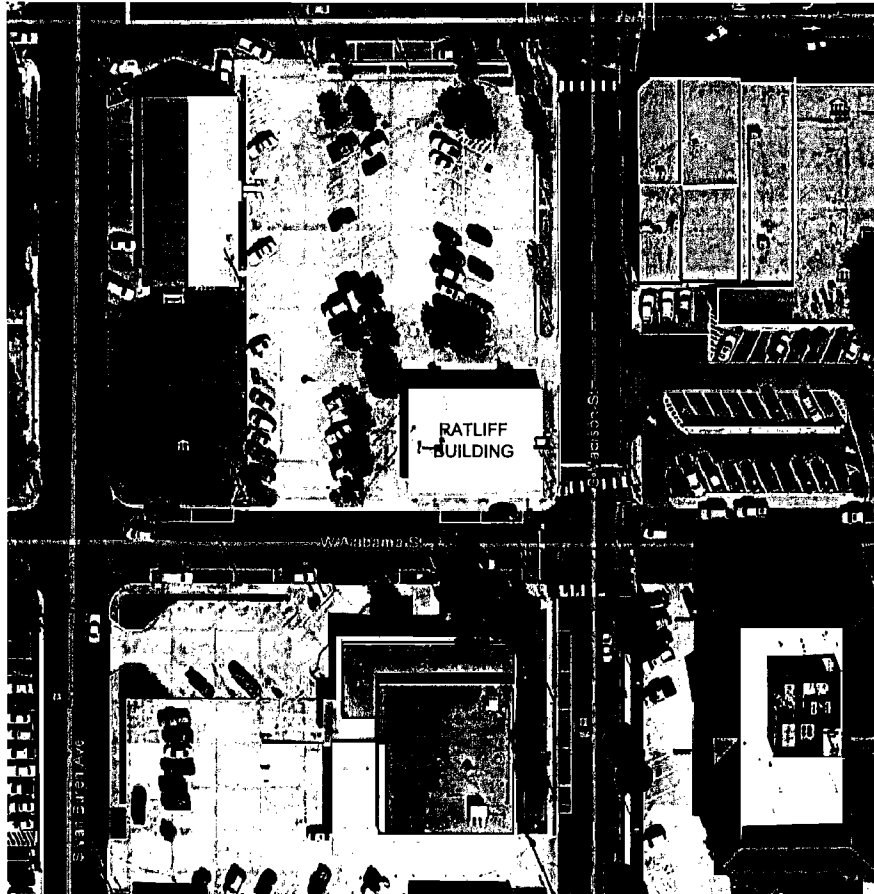
**Agenda Item #8 – Update of County/Regional Contractors List**

1. Most recent update with significant input from McCoy's contractor list.
2. Continuous process of update. Seeking to make as complete and accurate a list as possible.
3. Providing updated list to contractors and building supply stores for their use and additions also.
4. Used this list to solicit bids for computer room.

**Agenda Item #9 – Bids for Remodel of Computer Room**

1. This was a rebid per court request.
2. Nine bids requested, Four Bids received

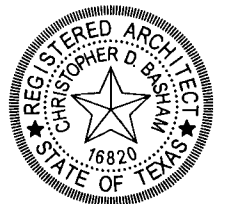
Bidder	Construction Amount	CA Amount (12%)	Total
Scott Redfearn	\$15,200	\$1824	\$17,024
DeAngelo Development	\$15,800	\$1896	\$17,696
Richard Jones	\$18,900	\$2268	\$21,168
UBriant Construction	\$18,974.29	\$2276.91	\$21,251.20
3. Recommend award to Scott Redfearn with immediate availability to start work.
4. Additional cost to project will be the acquisition of new computer rack by county (estimated at \$600-\$1000 by county technician) County technician will purchase and install to include line changeovers to maintain continuous county computer service.



# RATLIFF BUILDING RENOVATION TITUS COUNTY

## INDEX OF DRAWINGS

- G-1 TITLE SHEET & TABLE OF CONTENTS
- D-1 DEMOLITION PLAN
- A1.0 ARCHITECTURAL FLOOR PLAN
- A4.1 INTERIOR ELEVATIONS & DETAILS
- A4.2 WORK STATION PLAN & ELEVATION
- A4.3 TAX OFFICE & VEHICLE REGISTRATION  
CABINET ELEVATIONS & DOOR SCHEDULE
- A5.0 TRELLIS SITE PLAN & DETAILS
- ME0.1 HVAC NOTES
- ME2.1 HVAC FLOOR PLAN
- ME2.2 HVAC SCHEDULES
- ME4.1 RCP FLOOR PLAN
- ME7.1 HVAC DETAILS
- EE2.1 POWER PLAN
- EE4.1 LIGHTING PLAN
- EE5.1 DATA PLAN
- EE7.1 LIGHTING DETAILS
- EE7.2 CIRCUIT SCHEDULE



THE SEAL APPEARING ON THIS  
DRAWING IS AUTHORIZED BY  
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*Christopher D. Basham*



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**RATLIFF BUILDING RENOVATION  
MOUNT PLEASANT, TEXAS**

**Priefert**  
COMPLEX DESIGNS

2630 S. JEFFERSON | MT. PLEASANT, TEXAS 75455 | (PHONE) 1-800-527-8616 FIRM NO. F-10601

## TITLE SHEET & TABLE OF CONTENTS

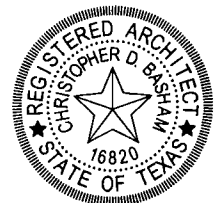
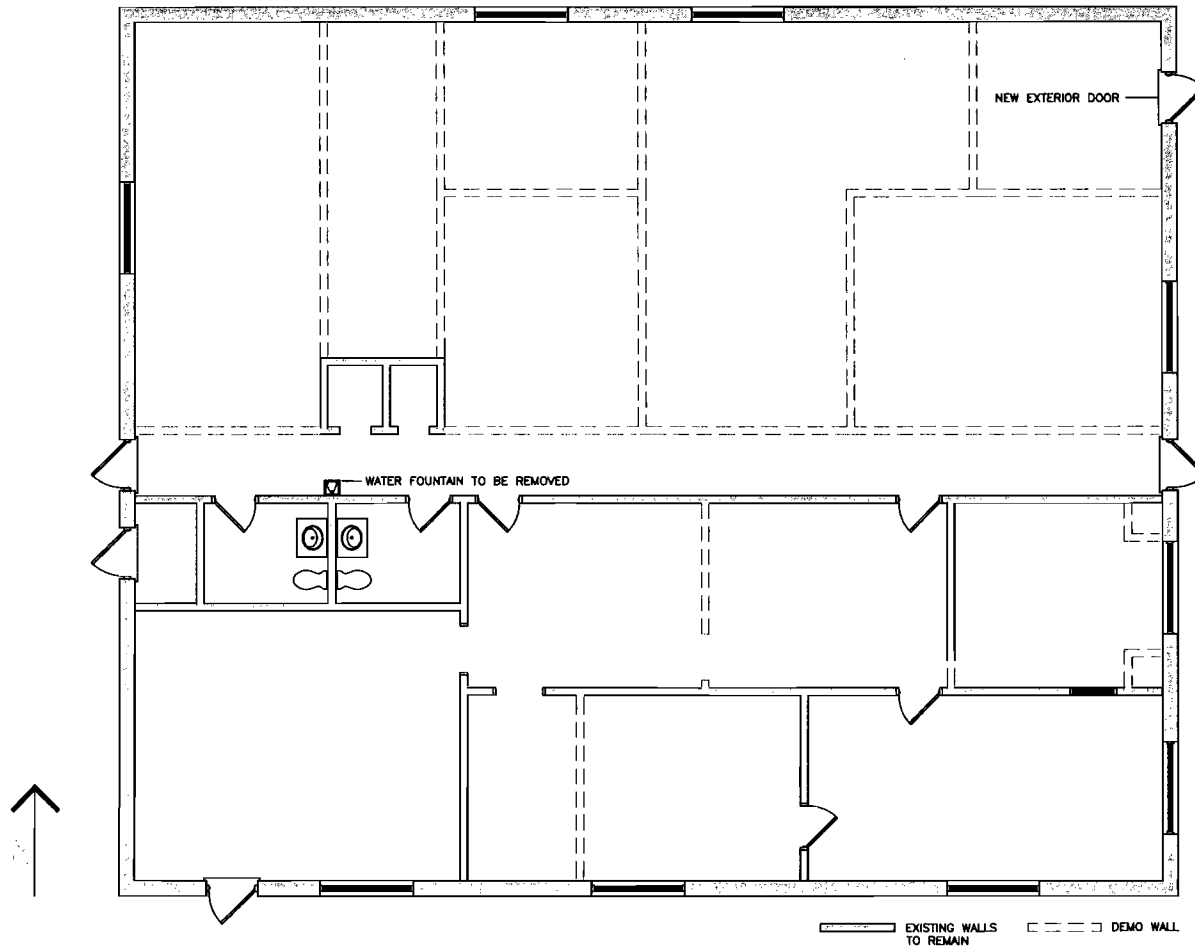
PROJECT NO: 1474	DRAWN BY: WC
DATE: 01-08-2015	CHECKED BY: CB
FINAL PLANS FOR BIDDING & CONSTRUCTION	

**G-1**

Scale:

# **Demolition Notes**

1. Remove walls as shown.
2. Remove all floor tile and ceiling materials.
3. Existing 2x4 fluorescent lights may be reused in newly renovated areas.
4. Existing windows to remain.
5. No demolition of any load bearing structural elements are required for this demolition and subsequent renovation.
6. Existing water fountain to be removed and water line capped.



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## **DEMOLITION PLAN**

PROJECT NO: 1474 | DRAWN BY: WC  
DATE: 01-08-2015 | CHECKED BY: CB  
FINAL PLANS FOR BIDDING  
& CONSTRUCTION

**D-1**

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

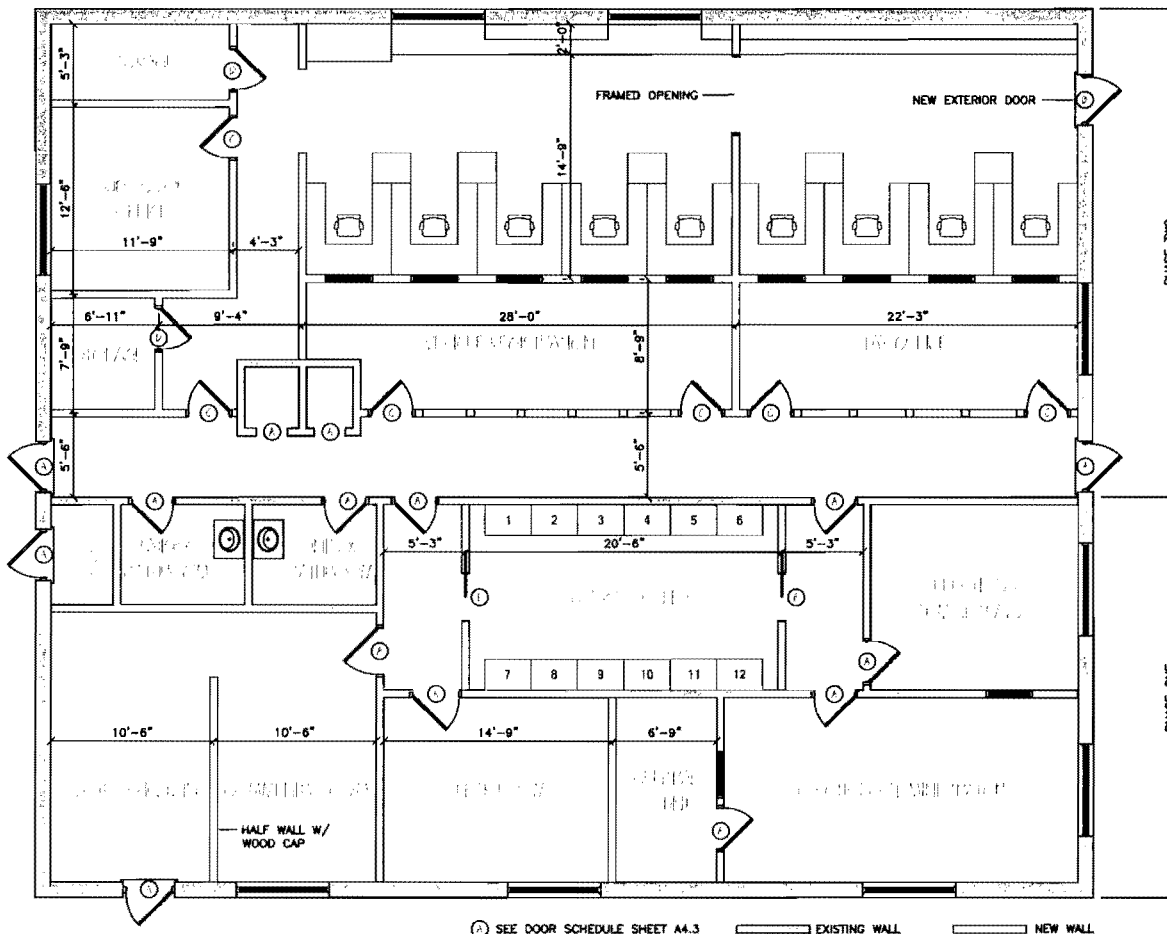
### General Notes for Ratliff Building Renovation

- Demolition and Construction Dumpster to be provided by County at a site close to the building. Contractor will be required to plan for a 48 hour notice ahead of when the dumpster may need to be emptied and returned.
- Contractor is expected to immediately notify County Project Manager if changes are required to plans that will result in any cost change to the contract.
- Contractor shall provide a cost loaded schedule upon start of construction which generally outlines the planned progress of work and anticipated draw amounts and timing in correlation with planned schedule.
- Project will no longer be required to be completed in two phases as originally planned. Contractor will control of the entire building during demolition and construction.
- Contractor shall provide proof of Insurances prior to start of construction.

### Architectural Notes for Ratliff Building Renovation

- Contractor will work with the Architect to select finish colors and materials as the project requires.
- Unless otherwise indicated all new walls are to be wood stud, 5/8" FR Gyp board painted. Paint colors to be chosen by Architect.
- All existing walls to remain to be patched as needed and painted. Paint colors to be chosen by Architect.
- All new flooring to be ceramic tile to match tile used in recently renovated Adult Probation Offices. New rubber base to be used in all areas except in Tax Office and Vehicle Registration customer lobby areas which will be 6" wood base with routed top and stained a dark oak color to match stain used on wood paneled elevations in these areas.
- One of the administrative workstations will be constructed and delivered to a location that will allow future occupants of the tax and vehicle registration office to "test" the work station layout and design prior to construction of the balance of the workstations. Workstations are envisioned to be constructed off site and installed in the building at the appropriate time.
- All existing interior walls to remain in place will be surfaced with gyp board and painted.

Contractor is required to field verify all measurements prior to start of construction. Millwork and cabinet construction will be based generally on drawings provided herein but will require field measurement and verification prior to construction to ensure proper fit and installation.



SEE DOOR SCHEDULE SHEET A4.3

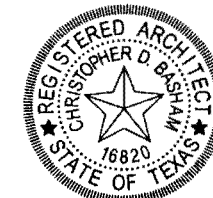
EXISTING WALL

NEW WALL



THE SEAL APPEARING ON THIS DRAWING IS AUTHORIZED BY GLEN M. CALVERT, P.E. NO. 81898 ON 01/08/2015

*Glen M. Calvert*



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*Christopher D. Basham*

ENGAGE

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**RATLIFF BUILDING RENOVATION  
MOUNT PLEASANT, TEXAS**

**Priefert  
COMPLEX DESIGNS**

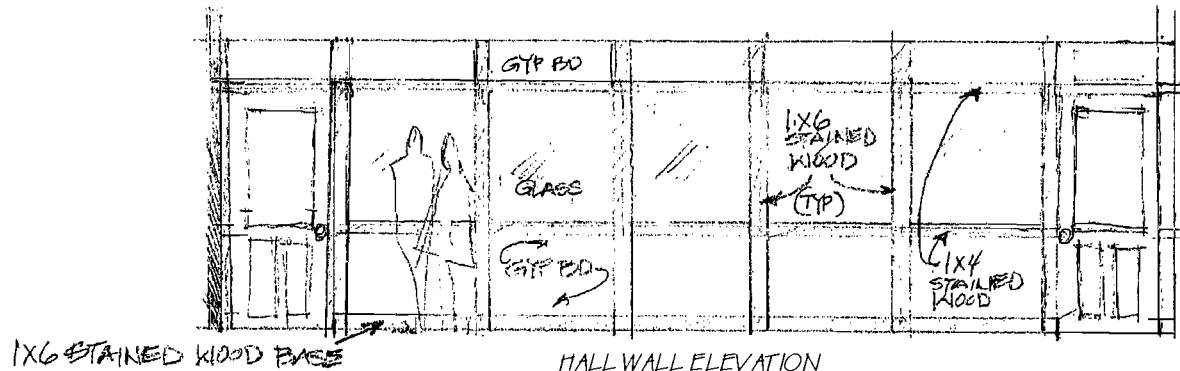
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**ARCHITECTURAL FLOOR PLAN**

PROJECT NO: 1474 | DRAWN BY: WC  
DATE: 01-08-2015 | CHECKED BY: CB  
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& CONSTRUCTION

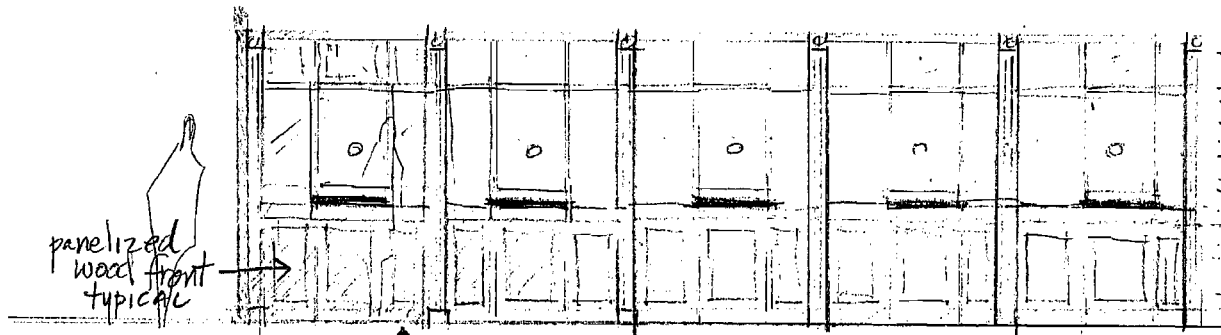
**A1.0**

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

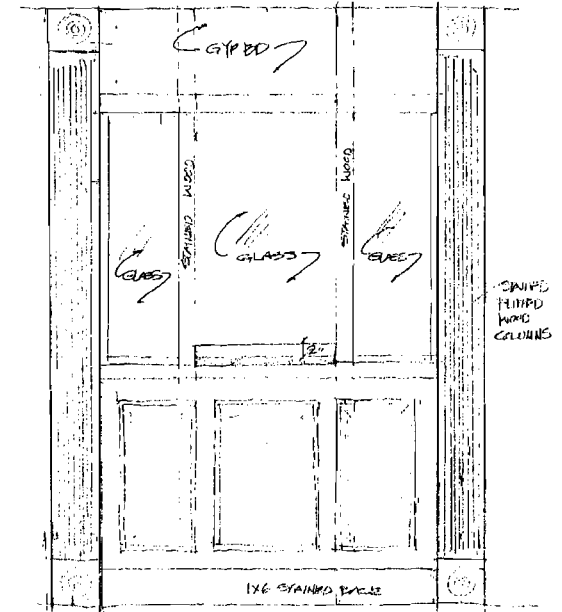


1X6 STAINED WOOD BASE

HALL WALL ELEVATION  
SCALE: 1/4" = 1'-0"



COUNTER WALL ELEVATION  
SCALE: 1/4" = 1'-0"



EXPANDED DETAIL  
SCALE: 1/2" = 1'-0"



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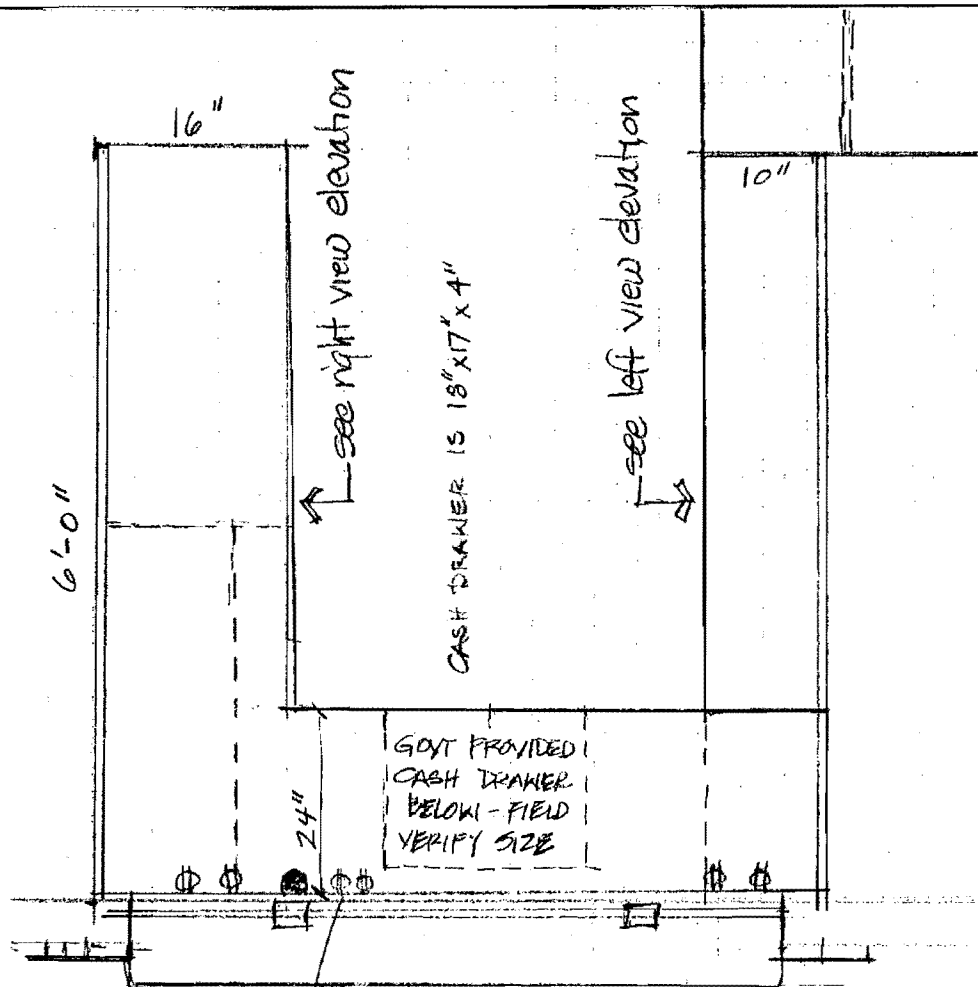
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INTERIOR ELEVATIONS & DETAILS

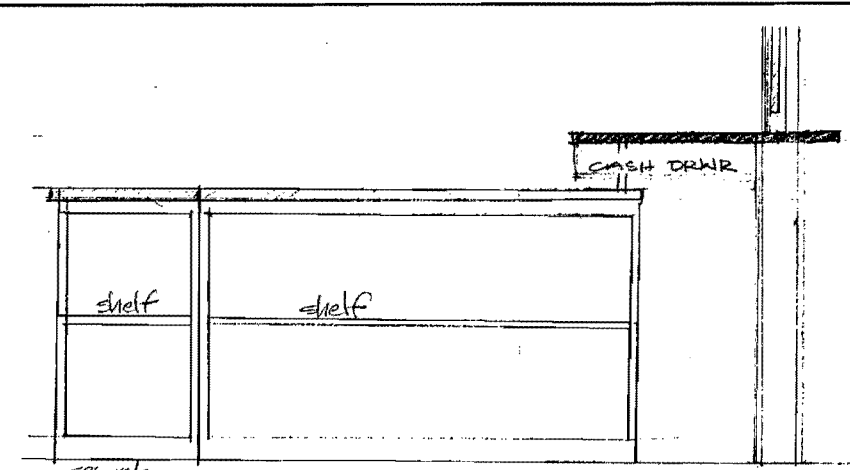
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FINAL PLANS FOR BIDDING  
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A4.1

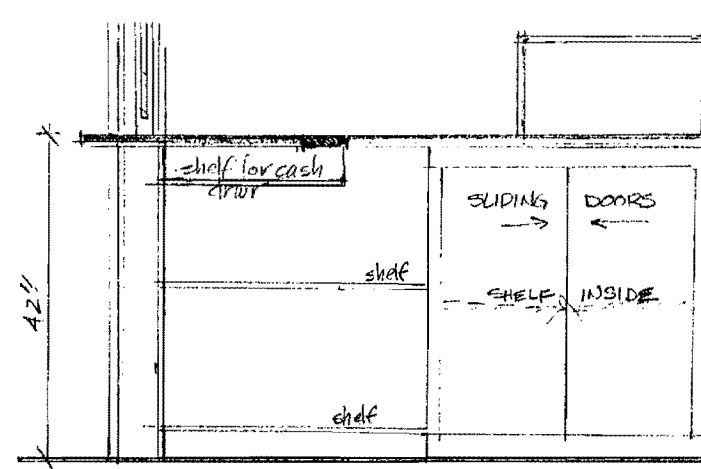
Scale: As indicated



PLAN OF TYP WORK STATION  
SCALE: 3/4" = 1'-0"



LEFT-VIEW ELEVATION  
SCALE: 3/4" = 1'-0"



RIGHT-VIEW ELEVATION  
SCALE: 3/4" = 1'-0"



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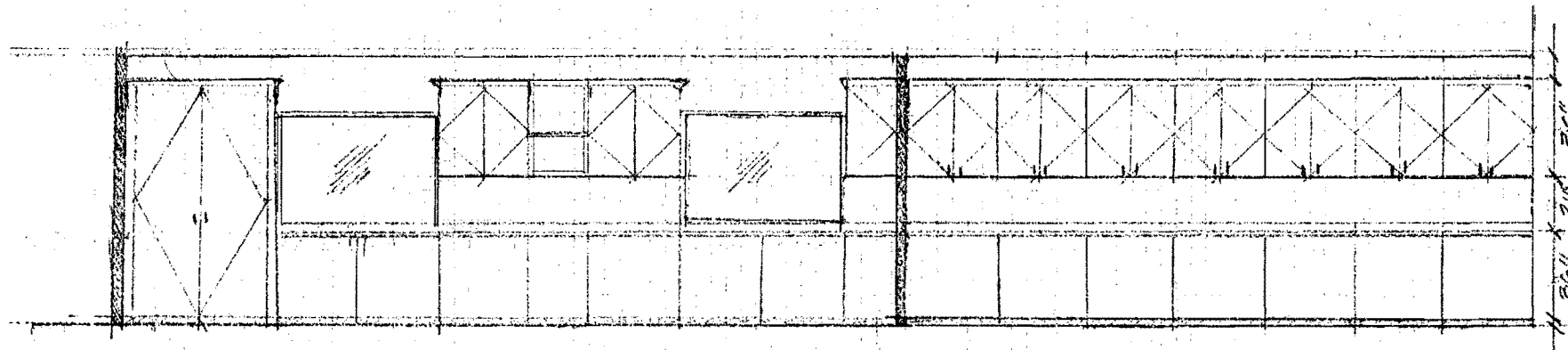
*Christopher D. Basham*

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**RATLIFF BUILDING RENOVATION**  
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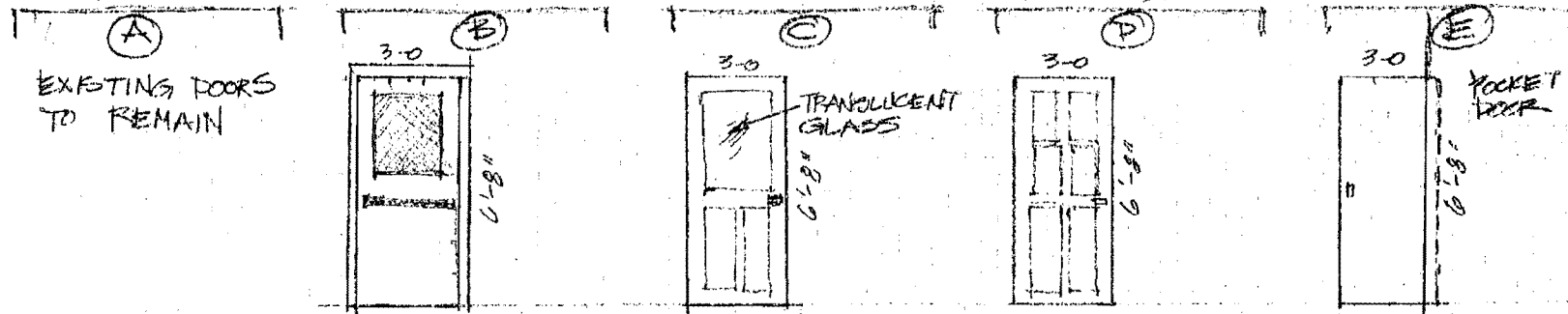
WORK STATION PLAN & ELEVATIONS		
PROJECT NO: 1474	DRAWN BY: WC	<b>A4.2</b> Scale: As indicated
DATE: 01-08-2015	CHECKED BY: CB	
FINAL PLANS FOR BIDDING & CONSTRUCTION		



VEHICLE REGISTRATION CABINET ELEVATION  
SCALE: 1/4" = 1'-0"

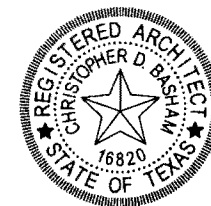
TAX OFFICE CABINET ELEVATION  
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE. (ALL HARDWARE TO BE BRUSHED ANTIQUE BRONZE, LEVERED DOOR HANDLES)



DOORS C - E TO BE SOLID CORE WOOD - STAINED

DOOR SCHEDULE



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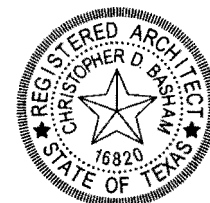
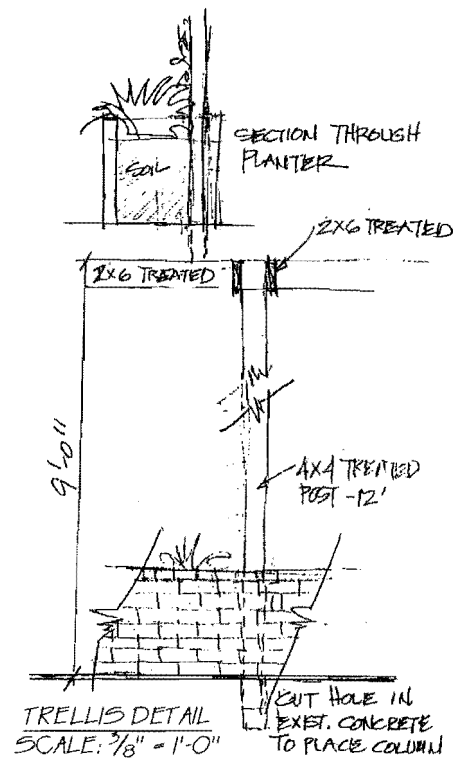
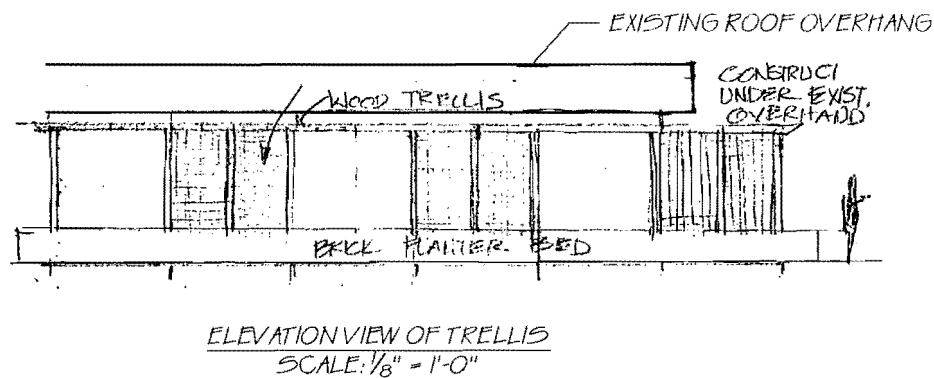
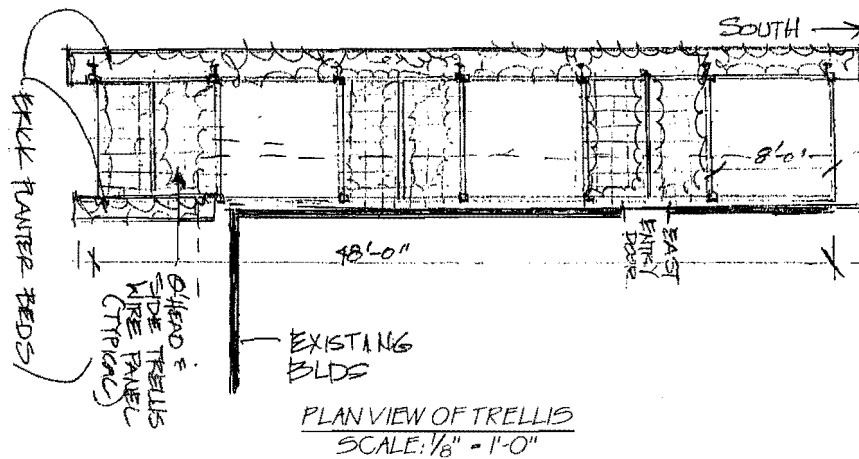
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**TAX OFFICE & VEHICLE REGISTRATION  
CABINET ELEVATIONS & DOOR SCHEDULES**

PROJECT NO: 1474 DRAWN BY: WC  
DATE: 01-08-2015 CHECKED BY: CB  
FINAL PLANS FOR BIDDING  
& CONSTRUCTION

**A4.3**

Scale: As indicated



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TRELLIS SITE PLAN & DETAILS

PROJECT NO: 1474 DRAWN BY: WC  
DATE: 01-08-2015 CHECKED BY: CB  
FINAL PLANS FOR BIDDING & CONSTRUCTION

A5.0

Scale: As indicated



## HVAC DUCTWORK NOTES

COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS—METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESSES, AND DUCT CONSTRUCTION METHODS, UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS.

GALVANIZED SHEET STEEL SHALL BE LOCK-FORMING QUALITY; COMPLYING WITH ASTM A 653/A 653M AND HAVING G60 (Z180) COATING DESIGNATION; DUCTS SHALL HAVE MILL-PHOSPHATIZED FINISH FOR SURFACES EXPOSED TO VIEW.

TIE RODS SHALL BE GALVANIZED STEEL, 1/4-INCH MINIMUM DIAMETER FOR LENGTHS 36 INCHES OR LESS, 3/8-INCH MINIMUM DIAMETER FOR LENGTHS LONGER THAN 36 INCHES.

JOINT AND SEAM TAPE SHALL BE 2" WIDE GLASS-FIBER-REINFORCED FABRIC.

FLANGE GASKETS SHALL BE BUTYL RUBBER OR EPDM POLYMER WITH POLYISOBUTYLENE PLASTICIZER.

DUCTWORK HANGER MATERIALS SHALL BE GALVANIZED SHEET STEEL OR THREADED STEEL ROD.

STRAP AND ROD SIZES SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS—METAL AND FLEXIBLE" FOR STEEL SHEET WIDTH AND THICKNESS AND FOR STEEL ROD DIAMETERS.

CONSTRUCT AND INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS—METAL AND FLEXIBLE".

INSTALL ROUND AND FLAT-OVAL DUCTS IN LENGTHS NOT LESS THAN 12 FEET UNLESS INTERRUPTED BY FITTINGS.

INSTALL DUCTS WITH FEWEST POSSIBLE JOINTS.

INSTALL FABRICATED FITTINGS FOR CHANGES IN DIRECTIONS, SIZE, AND SHAPE AND FOR CONNECTIONS.

INSTALL DUCTS, UNLESS OTHERWISE INDICATED, VERTICALLY AND HORIZONTALLY AND PARALLEL AND PERPENDICULAR TO BUILDING LINES; AVOID DIAGONAL RUNS.

INSTALL DUCTS WITH A CLEARANCE OF 1 INCH (25 MM), PLUS ALLOWANCE FOR INSULATION THICKNESS.

COORDINATE LAYOUT WITH SUSPENDED CEILING, FIRE- AND SMOKE-CONTROL DAMPERS, LIGHTING LAYOUTS, AND SIMILAR FINISHED WORK.

SEAL ALL JOINTS AND SEAMS. APPLY SEALANT TO MALE END CONNECTORS BEFORE INSERTION, AND AFTERWARD TO COVER ENTIRE JOINT AND SHEET METAL SCREWS.

SUPPORT HORIZONTAL DUCTS WITHIN 24 INCHES OF EACH ELBOW AND WITHIN 48 INCHES (1200 MM) OF EACH BRANCH INTERSECTION.

## HVAC GENERAL NOTES

THIS PROJECT IS DESIGNED AND COMPLIES WITH THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE, AND THE TEXAS STATE ENERGY CODE.

ALL DUCT SIZES SHOWN ON THE DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS.

UTILIZE LONG RADIUS ELBOWS WHERE SPACE PERMITS UNLESS OTHERWISE NOTED. ALL RECTANGULAR ELBOWS SHALL CONTAIN TURNING VANES.

COORDINATE WITH OTHER UTILITIES TO AVOID INTERFERENCE WHEN INSTALLING DUCTWORK, PIPING AND EQUIPMENT.

FURNISH AND INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

VERIFY DIMENSIONS, LOCATIONS, ELEVATIONS AND CONFIGURATION OF ALL ITEMS ASSOCIATED WITH THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT.

PROVIDE MODIFICATIONS AND ACCESSORIES AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER TO ASSURE PROPER OPERATION OF EQUIPMENT.

ALL EQUIPMENT AND ITEMS VISIBLE THRU AIR DEVICES, SHALL BE PAINTED MATTE BLACK.

PROVIDE MANUAL VOLUME DAMPERS IN DUCTWORK AT ALL DUCT SPLITS, BRANCH RUNOUTS AND DUCT COLLARS FOR REGISTERS.

ALL DUCTWORK SHALL BE CONSTRUCTED, SEALED AND INSTALLED IN CONFORMANCE TO SMACNA DUCT CONSTRUCTION STANDARDS.

DUCT RUNOUTS TO LINEAR/RECTANGULAR SUPPLY DIFFUSERS AND AIR TERMINALS SHALL BE THE SAME SIZE AS THE INLET DIAMETER OF THE DIFFUSER. THE LENGTH OF FLEXIBLE DUCTS TO THE DIFFUSERS SHALL NOT EXCEED 5'-0".

PROVIDE FIRE DAMPERS IN DUCTWORK AT ALL FIRE BARRIER PENETRATIONS.

PROVIDE FIRE RESISTANT FLEXIBLE CONNECTION WHENEVER DUCTWORK IS CONNECTED TO MOTORIZED EQUIPMENT.

DUCT MATERIAL SHALL BE ZINC-COATED STEEL WITH METAL AND GALVANIZING THICKNESS AS PER SMACNA CONSTRUCTION STANDARDS.

PROVIDE OSHA-REQUIRED CLEARANCES AROUND ALL HVAC EQUIPMENT AND COMPONENTS FOR PERSONNEL ACCESS AND MAINTENANCE.

PIPING HANGERS AND SUPPORTS - ALL HANGERS AND SUPPORTS SHALL COMPLY WITH MANUFACTURER'S STANDARDIZATION SOCIETY (MSS) STANDARDS. VERTICAL PIPES MUST BE SUPPORTED AT EACH FLOOR WITH PIPE CLAMPS.

INSULATE BACKS AND PLENUMS OF SUPPLY AIR DEVICES WITH MINIMUM 1" MINERAL FIBER.

FOR ALL MECHANICAL EQUIPMENT PROVIDE LOCAL DISCONNECT MOUNTED ON UNIT OR INTEGRAL TO UNIT CONTROL PANEL.

ALL AIR MOVING EQUIPMENT CONTAINING PARTICULATE FILTERS SHALL NOT BE OPERATED WITHOUT PARTICULATE FILTERS IN PLACE.

INSULATE ALL COLD SURFACES OF HVAC EQUIPMENT THAT ARE NOT FACTORY INSULATED WITH MINIMUM 1" MINERAL FIBER. THIS ALSO INCLUDES COMPONENTS MOUNTED ON VAV TERMINALS.

ALL T-STATS AND CONTROL SENSORS SHALL BE MOUNTED AT 5'-6" AFF.

## HVAC DUCTWORK INSULATION NOTES

INSULATION AND RELATED MATERIALS SHALL HAVE FIRE-TEST-RESPONSE CHARACTERISTICS INDICATED, AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM E 84, BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. FACTORY LABEL INSULATION AND JACKET MATERIALS AND ADHESIVE, MASTIC, TAPES, AND CEMENT MATERIAL CONTAINERS, WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AND INSPECTING AGENCY. INSULATION SHALL HAVE A FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS.

SUPPLY AND RETURN AIR DUCTWORK LOCATED IN CONDITIONED SPACES SHALL HAVE A MINIMUM R-VALUE OF 5.

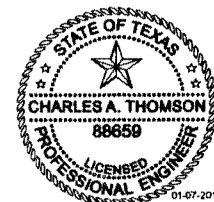
INDOOR INSULATION SHALL BE EITHER MINERAL-FIBER BLANKET (DUCT WRAP) OR MINERAL-FIBER BOARD (DUCT BOARD).

DUCT WRAP SHALL BE 2" THICK 1.5 PCF DENSITY, OWENS CORNING SOFTR OR EQUAL.

DUCT BOARD SHALL BE 1 1/2" THICK 3.8-PCF DENSITY, OWENS CORNING QUIETR OR EQUAL.

FOR EXPOSED ROUND DUCTWORK CONTRACTOR SHALL USE 1 1/2" THICK OWENS CORNING QUIETZONE SPIRAL DUCT LINER OR EQUAL.

MINERAL-FIBER ADHESIVE SHALL COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A.



THE SEAL APPEARING ON THIS DRAWING IS  
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CHARLES A. THOMSON, P.E. NO. 88659  
*Charles Thomson*

ENGAGE

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**RATLIFF BUILDING RENOVATION**  
**MOUNT PLEASANT, TEXAS**

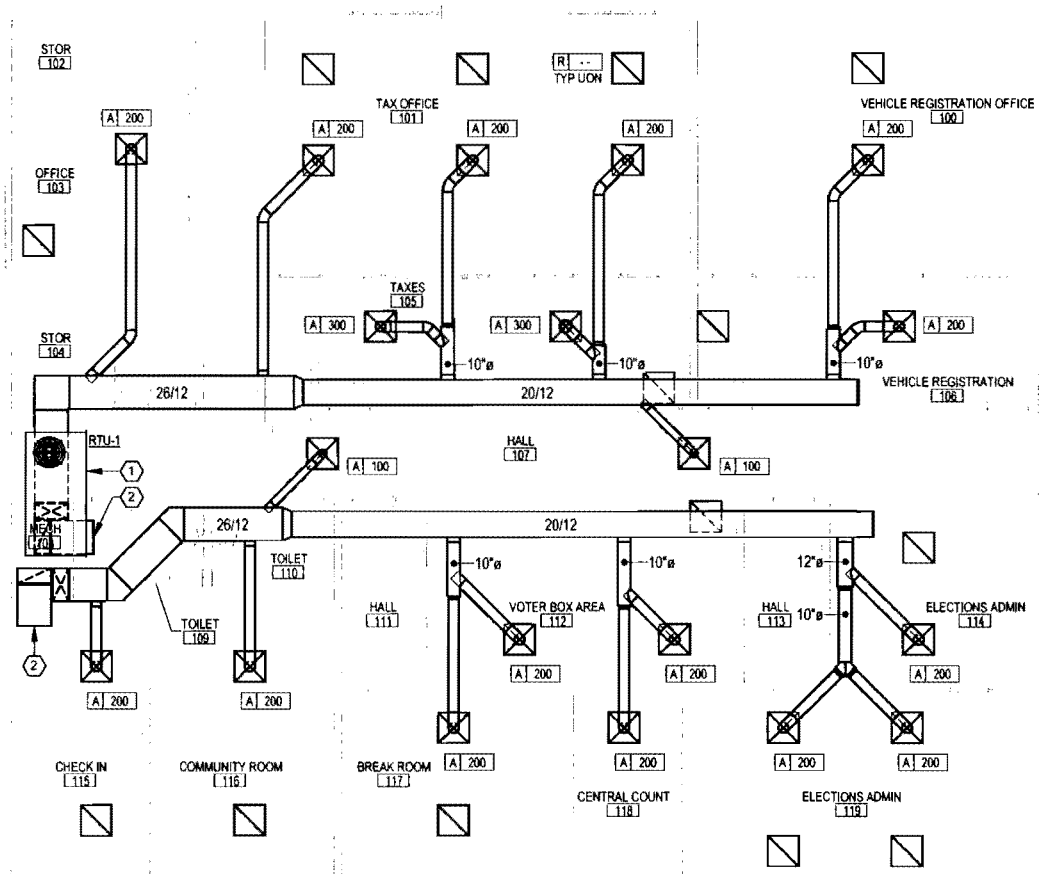
**TE** **TOTAL**  
**ENGINEERING**  
SERVICES LLC

103 COMMUNITY BOULEVARD | LONGVIEW, TEXAS 75604 | WWW.TE-SERVICES.COM | T&E FIRM 13535

PROJECT NO: PCD 14 004 | DRAWN BY:  
DATE: 01-07-2015 | CHECKED BY:  
FINALS PLANS FOR BIDDING &  
CONSTRUCTION

**ME0.1**

Scale: 12" = 1'-0"



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

## GENERAL MECHANICAL NOTES

REFER TO MD.1 FOR GENERAL NOTES AND LEGEND.

ROUTING OF PIPING/DUCTWORK IS DIAGRAMMATIC AND IS NOT SHOWN IN EXACT LOCATIONS.

CONTRACTOR SHALL INSTALL PIPING WITH THE LEAST AMOUNT OF SPACE USED AS POSSIBLE.

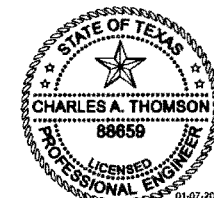
ALL PIPING SHALL BE MOUNTED AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED.  
CONTRACTOR SHALL COORDINATE PIPING LAYOUT WITH ALL OTHER DISCIPLINES TO AVOID INTERFERENCES.

PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINE UNLESS NOTED OTHERWISE.

PROVIDE MANUAL DAMPER AT ALL BRANCH TAKE-OFFS.

## NOTES BY SYMBOL

- 1 EXISTING ROOF-TOP UNIT, CONNECT AS SHOWN.
- 2 PROVIDE FULL SIZE RA DUCT DOWN FROM RTU ON ROOF. CONTINUE DOWN MIN.18" BELOW ROOF LINE. PROVIDE FILTER AT INTAKE.



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CHARLES A. THOMSON, P.E. NO 88659  
*Charles Thomson*

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**RATLIFF BUILDING RENOVATION  
MOUNT PLEASANT, TEXAS**

**TE TOTAL  
ENGINEERING  
SERVICES LLC**

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PROJECT NO PCD 14 004

DRAWN BY:

DATE: 01-07-2015

CHECKED BY:

FINALS PLANS FOR BIDDING &  
CONSTRUCTION

**ME2.1**

Scale: As indicated

## DIFFUSER, REGISTER, AND GRILLE SCHEDULE

### NOTES

1. UNITS SHALL BE FURNISHED WITH APPROPRIATE FRAMES, ETC. FOR SIDEWALL OR CEILING MOUNTING.
2. FINISH / PAINT COLOR SHALL BE AS DETERMINED BY OWNER'S REPRESENTATIVE.
3. SOUND VALUES SHALL NOT EXCEED 30 NC (ROOM), UNLESS OTHERWISE NOTED.
4. PROVIDE UNIT W/ BALANCING DAMPER.
5. CFM RANGE                      NECK  
     0-250                              8"  
     255-380                          10"  
     385-550                          12"  
     555-750                          14"

MARK	TYPE	DESCRIPTION	SERVICE	MAX AIRFLOW	FACE		NECK SIZE	MANUFACTURER	MODEL	NOTES	QTY
					LENGTH	WIDTH					
A	LAY-IN	LAY-IN SQUARE DIFFUSER	SUPPLY	SEE NOTE 5	24"	24"	SEE NOTE 5	PRICE	SCD	1, 2, 3, 4, 5	19
R	SURFACE	EGG CRATE GRILLE	RETURN	2100	24"	24"		PRICE	80	1, 2, 3	14

## OUTSIDE AIR REPORT

CALCULATIONS ARE BASED ON SECTION 403.3 OF THE INTERNATIONAL MECHANICAL CODE

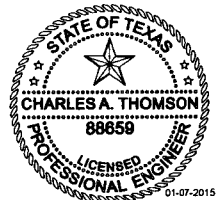
ZONE	CLASSIFICATION	AREA CALC			OCCUPANT CALC			ZONE AIRFLOW (CFM)	
		AREA (SF)	RATE (CFM/SF)	AIRFLOW (CFM)	NO	RATE (CFM/P)	AIRFLOW (CFM)	REQUIRED	PROVIDED
RTU-1	OFFICE	1767	0.06	106.02	9	5	45	151	190
RTU-2	OFFICE	1677	0.06	100.62	9	5	45	146	190
Grand total									

## PACKAGED ROOF-TOP UNIT W/ GAS HEAT

### REMARKS

1. E.S.P. IS FOR DUCT SYSTEM AND DOES NOT INCLUDE UNIT OR...
2. PROVIDE FACTORY MOUNTED SMOKE DETECTORS IN SUPPLY...
3. UNIT SHALL BE GAS-FIRED (NG)

MARK	SUPPLY AIR		OUTSIDE AIRFLOW (CFM)	COOLING	HEATING	MANUFACTURER	MODEL
	AIRFLOW (CFM)	ESP (IN-WG)		TOTAL CAP (MBH)	OUTPUT (MBH)		
RTU-1	1900	0.76	190	48.0	46.8	EXISTING	EXISTING
RTU-2	1900	0.76	190	48.0	46.8	EXISTING	EXISTING



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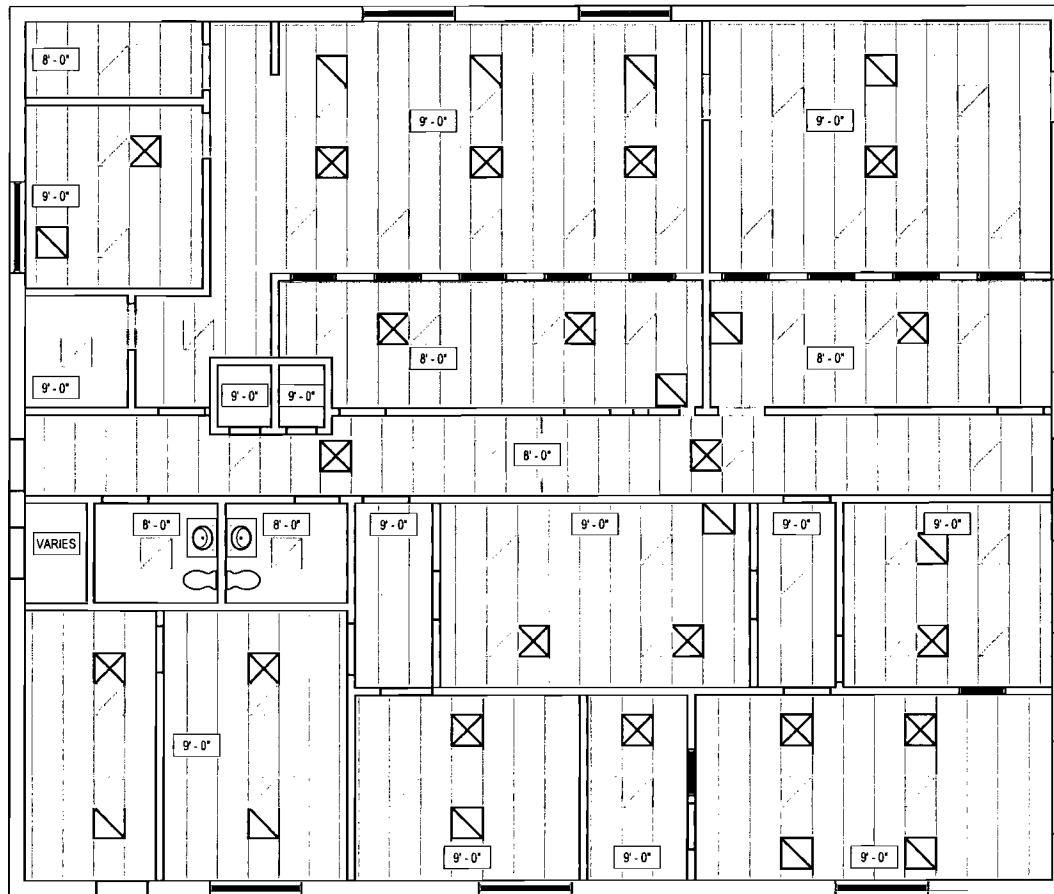
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**RATLIFF BUILDING RENOVATION  
 MOUNT PLEASANT, TEXAS**

**TE TOTAL  
 ENGINEERING  
 SERVICES LLC**

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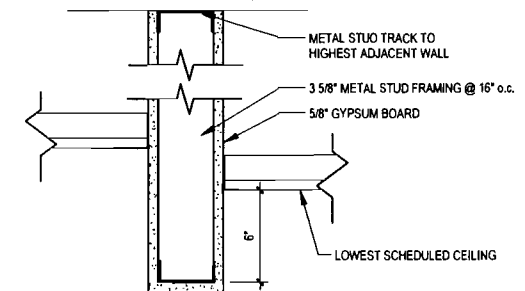
PROJECT NO: PCD 14 004	DRAWN BY:	<b>ME2.2</b>
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FINALS PLANS FOR BIDDING & CONSTRUCTION	Scale:	



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

## RCP SYMBOL LEGEND

10'-0"	CEILING HEIGHT TAG
[Symbol]	ACOUSTICAL CEILING PANELS (2'X2') IN METAL SUSPENSIONS SYSTEM (TYP)
[Symbol]	2x2 LIGHT FIXTURE, RE: ELECTRICAL
[Symbol]	EXHAUST RETURN GRILLE, RE: MECHANICAL
[Symbol]	SUPPLY AIR GRILLE, RE: MECHANICAL
[Symbol]	RETURN AIR GRILLE, RE: MECHANICAL



**CEILING TRANSITION DETAIL**



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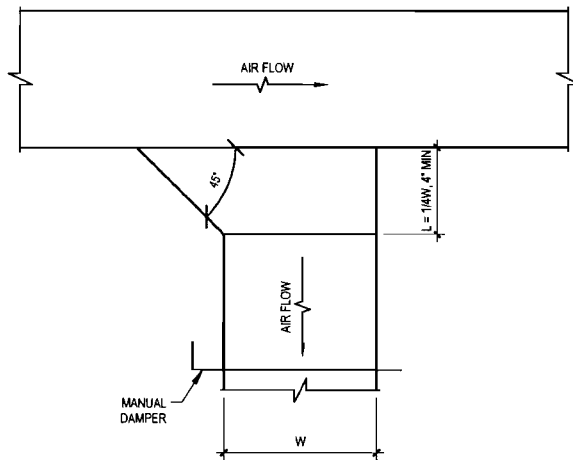
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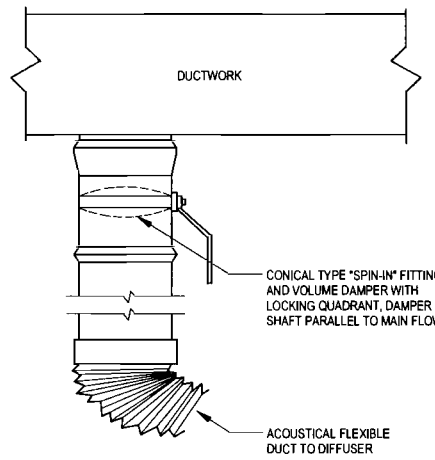
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**ME4.1**

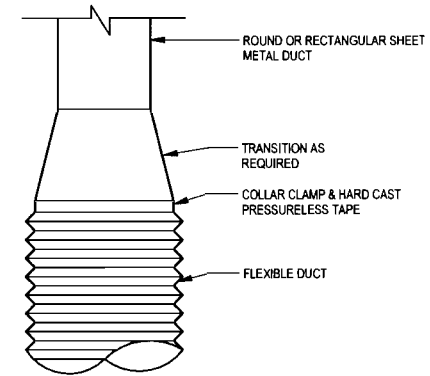
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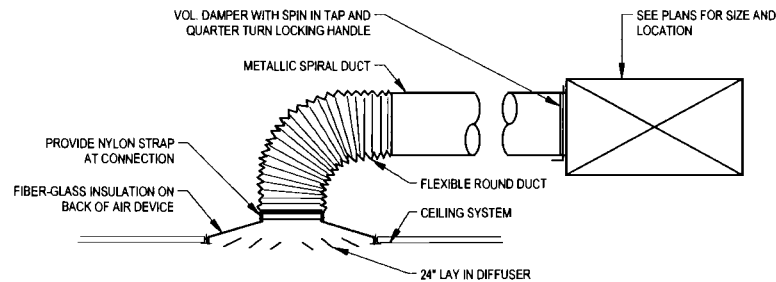
**BRANCH TAKE-OFF**



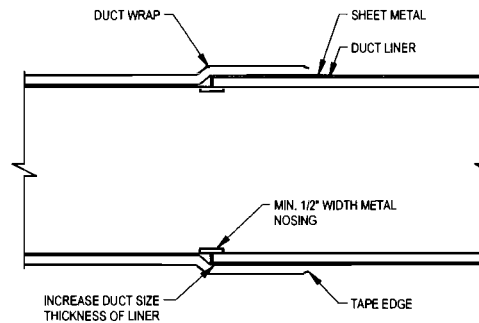
**TAKE-OFF**



**FLEX DUCT CONNECTION**



**BRANCH RUNOUT AIR DEVICE CONNECTION**



**DUCT WRAP TO LINEAR TRANSITION**



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**RATLIFF BUILDING RENOVATION  
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		Scale: 12" = 1'-0"

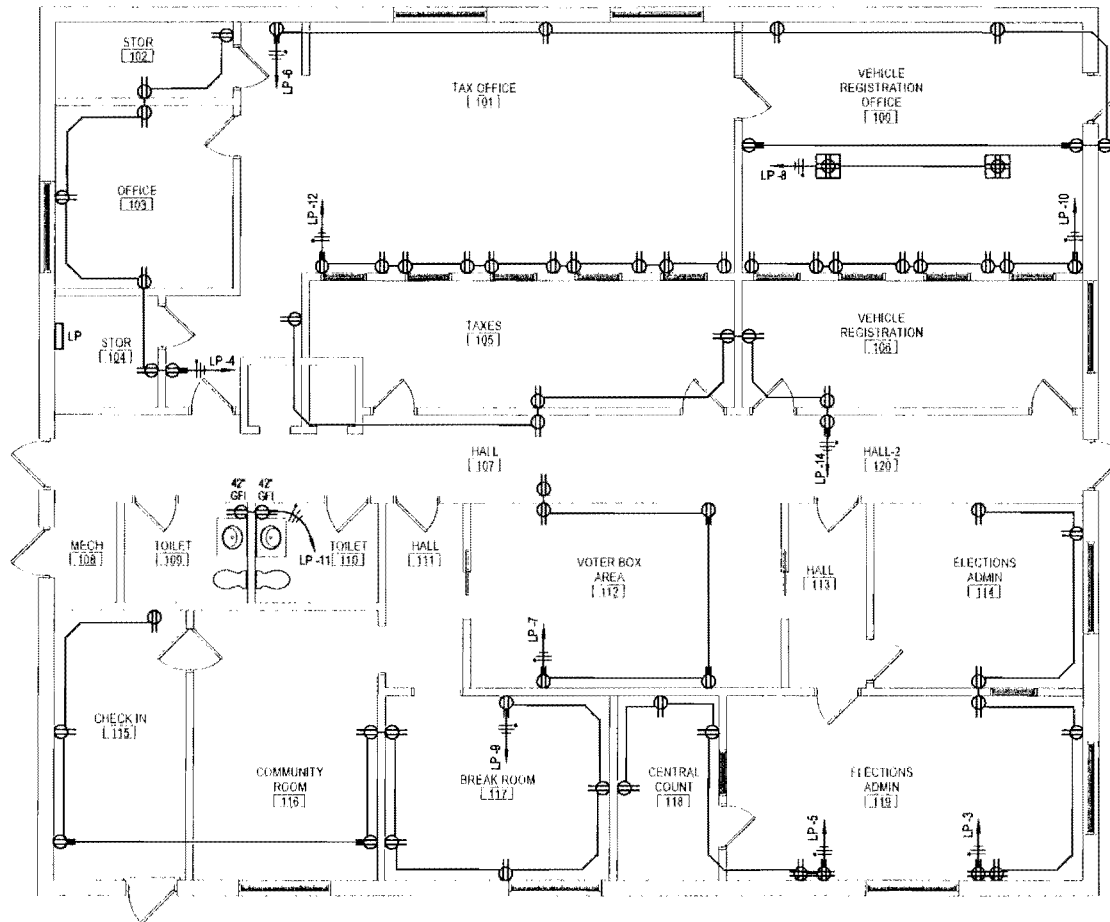
## GENERAL POWER NOTES

REFER TO E0.1 FOR GENERAL NOTES AND LEGEND.

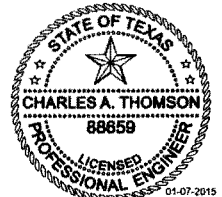
COORDINATE ALL WORK WITH MECH SYSTEMS, ROUTING CONDUIT AS HIGH AS POSSIBLE.

REFER TO MECH CONTRACTOR FOR EXACT LOCATIONS OF EQUIPMENT.

CONTRACTOR SHALL VERIFY ALL POWER REQUIREMENTS OF EQUIPMENT BEFORE INSTALLATION OF CONDUIT, BREAKER OR WIRING.



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



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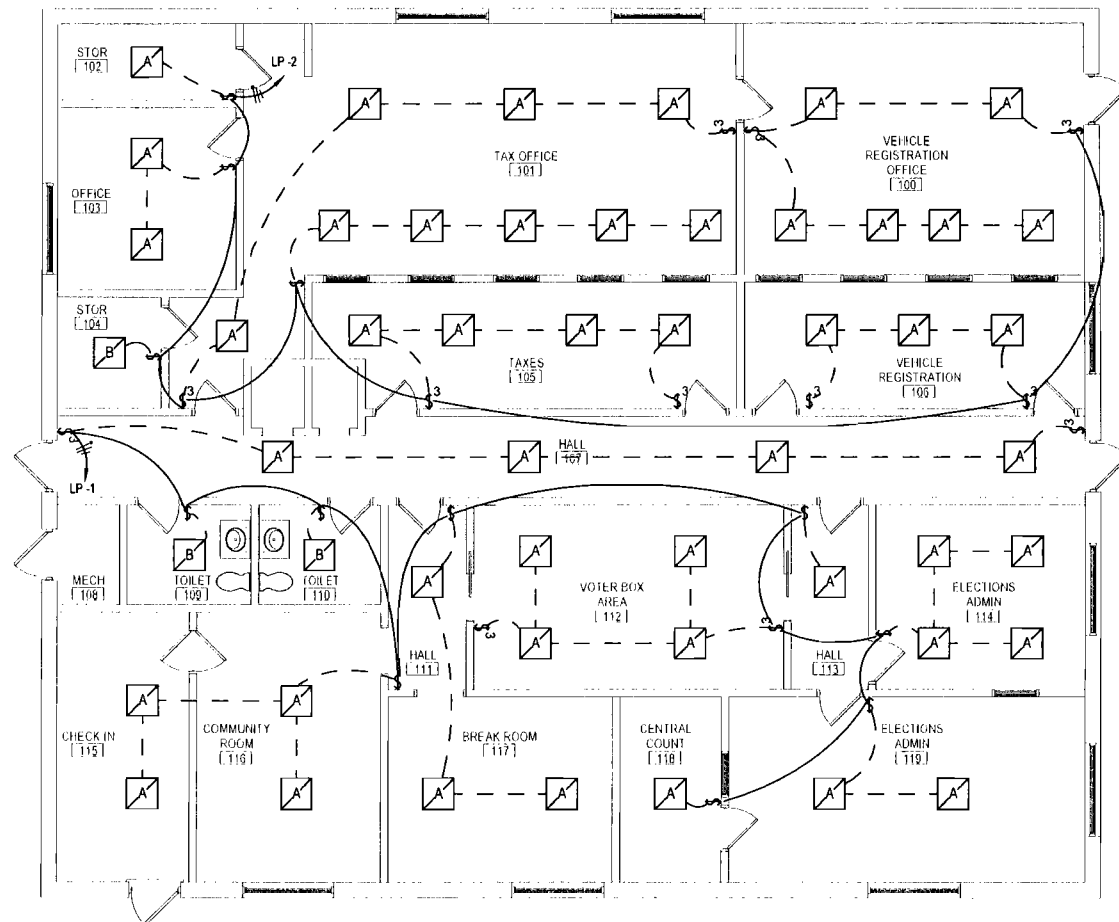
DATE: 01-07-2015

CHECKED BY:

FINALS PLANS FOR BIDDING &  
CONSTRUCTION

**EE2.1**

Scale: As indicated



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

## GENERAL LIGHTING NOTES

REFER TO E0.1 FOR GENERAL NOTES AND LEGEND.

ALL FIXTURES TO BE MOUNTED IN OPEN CEILING SHALL BE MOUNTED AT ONE EVEN HEIGHT, AS HIGH AS POSSIBLE. PROVIDE ALL REQUIRED BRACKETS AND SUPPORTS FOR MOUNTING CONDITION.

MOUNT ALL EXTERIOR WALL FIXTURES AS HIGH AS POSSIBLE (TOP GIRT LINES), PROVIDE MOUNTING BRACKET.

COORDINATE FIXTURE LAYOUT W/ CEILING GRID, HVAC DEVICES, AND COMMSECURITY DEVICES.

CONNECT BATTERY BACK-UP (EMERGENCY) FIXTURES TO NEAREST LIGHTING CIRCUIT. CONNECT TO CONTINUOUS HOT PER NEC.

ALL SPACES SHOWN WITH DUAL SWITCHES SHALL HAVE THE LIGHTS SWITCHED SO THAT EACH SWITCH CONTROLS HALF OF THE LIGHTS IN THE SPACE PER IECC.



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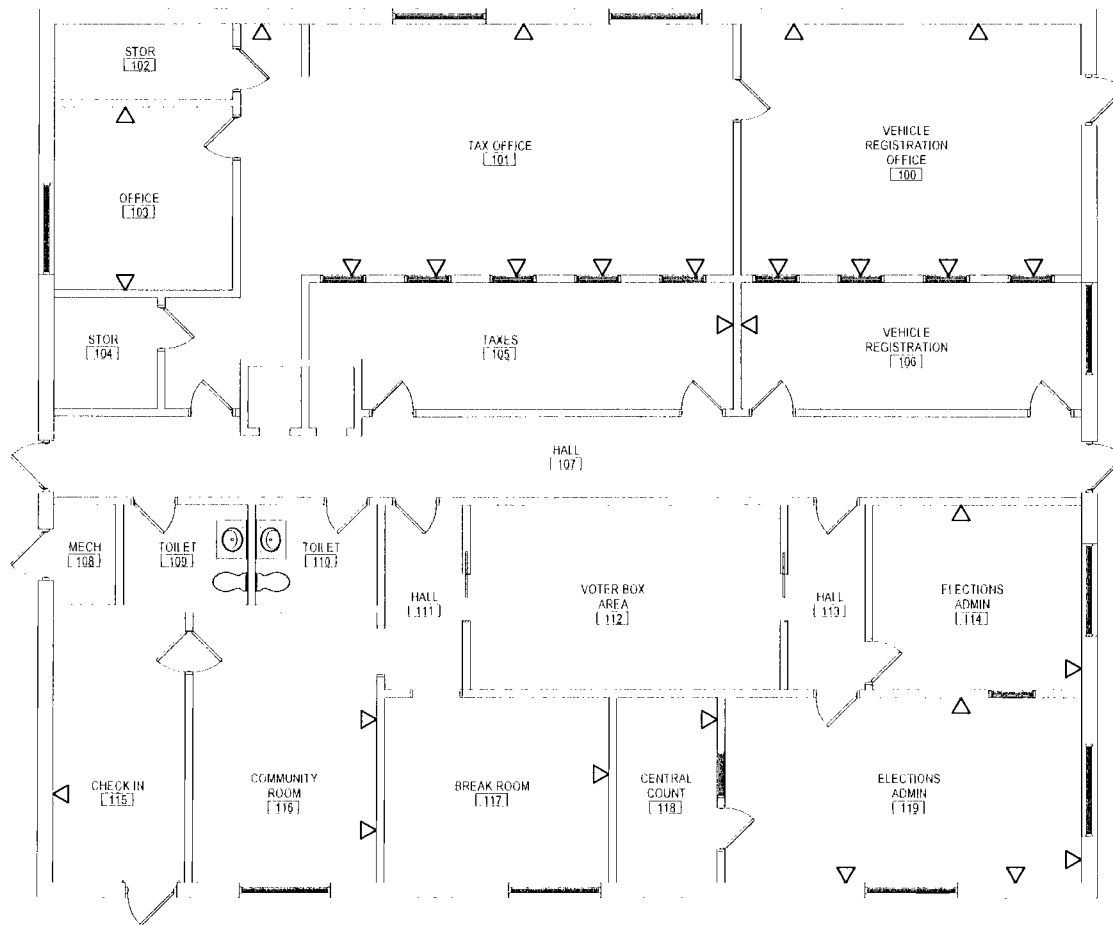
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## RATLIFF BUILDING RENOVATION MOUNT PLEASANT, TEXAS

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FINALS PLANS FOR BIDDING & CONSTRUCTION		
		Scale: As indicated



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

## GENERAL DATA NOTES

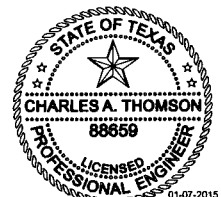
CONTRACTOR SHALL COORDINATE WITH LOCAL TELEPHONE UTILITY TO INSURE SERVICE IS TERMINATED IN SERVER ROOM WITH DEMARCATION AT SERVER ROOM.

CONTRACTOR SHALL PROVIDE COMMUNICATION PATCH PANEL AND TERMINATE ALL DATA LINES AT PATCH PANEL. CONTRACTOR SHALL VERIFY AND LABEL EACH LINE. PROVIDE TEST REPORT TO OWNER.

ALL CABLING INSTALLED IN EXPOSED AREAS SHALL BE RAN IN CONDUIT UP TO 10' AFF. ALL CABLING SHALL BE PLENUM RATED.

CONTRACTOR SHALL PROVIDE J-BOXES FOR ALL SECURITY AND DATA DEVICES SHOWN. COORDINATE FINAL COUNT AND LOCATION WITH OWNER IT DEPARTMENT.

CONTRACTOR SHALL PROVIDE TWO CAT 6 CABLE FOR ALL DATA PORTS SHOWN. TERMINATE ALL DATA PORTS USING TIA/EIA T-568B WIRING METHOD. ALL RUNS SHALL BE MADE BACK TO SERVER ROOM. ALL CABLING SHALL BE RAN PARALLEL TO BUILDING LINES, BUNDLED NEAT AND UNIFORM.



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## RATLIFF BUILDING RENOVATION MOUNT PLEASANT, TEXAS



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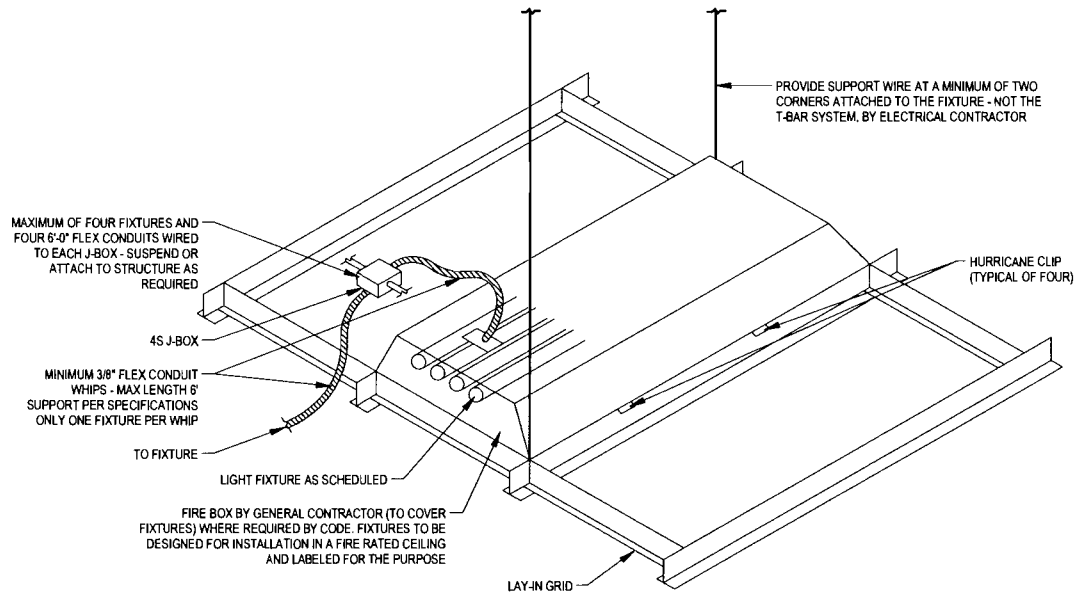
**EE5.1**

Scale: As indicated

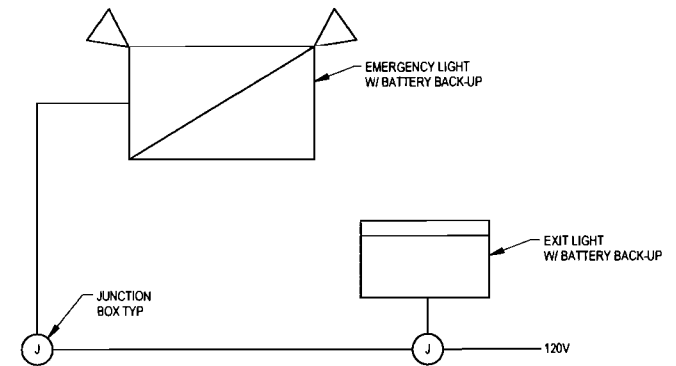


## LIGHTING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	LAMP INFO			FIXTURE WATTAGE	FIXTURE VOLTAGE	MANUFACTURER	MODEL	DESCRIPTION	QTY
		TYPE	WATTAGE	QTY						
A	LENSED TROFFER	T8	32	2	64	120	LITHONIA	2GT8 2 U316 A19 MVOLT GEB10IS	2 X 2 FLUORESCENT RECESSED FIXTURE W/ ELECTRONIC BALLAST, K-19 ACRYLIC PRISMATIC LENS 0.156" THICK	48
B	COMPACT FLUORESCENT	T8	32	2	64	120	LITHONIA	2M 2 U316 A19 MVOLT GEB10IS	2 X 2 FLUORESCENT SURFACE MOUNT FIXTURE W/ ELECTRONIC BALLAST, K-19 ACRYLIC PRISMATIC LENS 0.156" THICK	3



**RECESSED LAY-IN LIGHT FIXTURE DETAIL**



NOTE:  
CONNECT TO 120/277, LOCAL LIGHTING CKT (AHEAD OF ANY SWITCHING) FOR CHARGING AND AREA PROTECTION IN ACCORDANCE W. NEC 700-12

**EXIT/EMERGENCY LIGHTING DETAIL**



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MOUNT PLEASANT, TEXAS**



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		Scale: NTS

**Panel: LP**

Location: STOR 104

Supply From:

Mounting: Surface

Enclosure: Type 1

Volts: 120/208 Wye

Phas... 3

Wires: 4

A.I.C. Rating: 25000

Mains Type: MCB

Mains Rating: 200 A

MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LGT - ELECTIONS	20 A	1	135 VA	67 VA					1	20 A	LGT - OPEN OFFICE	2
3	PWR - ELECT ADMIN	20 A	1			1260 VA	1260 VA			1	20 A	PWR - JUDGE COOK & STOR	4
5	PWR - ELECT ADMIN & COUNT	20 A	1					900 VA	1260 VA	1	20 A	PWR - OPEN OFFICE FILING	6
7	PWR - VOTER BOXES	20 A	1	900 VA	360 VA					1	20 A	PWR - VEH REG PRINTERS	8
9	PWR - BRK RM, COM RM & CHK IN	20 A	1			1800 VA	1440 VA			1	20 A	PWR - VEHICLE REGISTRATION...	10
11	PWR - RR	20 A	1					360 VA	1800 VA	1	20 A	PWR - TAX OFFICE DESKS	12
13				1260 VA						1	20 A	PWR - TAX OFF & VEH REG	14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
Total Load:				2722 VA		5760 VA		4320 VA					
Total Amps:				23 A		50 A		38 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	3436 VA	125.00%	4295 VA		
Other	0 VA	0.00%	0 VA	Total Conn. Load:	16036 VA
Power	12600 VA	89.68%	11300 VA	Total Est. Demand:	15595 VA
				Total Conn. Current:	45 A
				Total Est. Demand Current:	43 A

Notes:

EXISTING CIRCUITS ARE NOT SHOWN

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