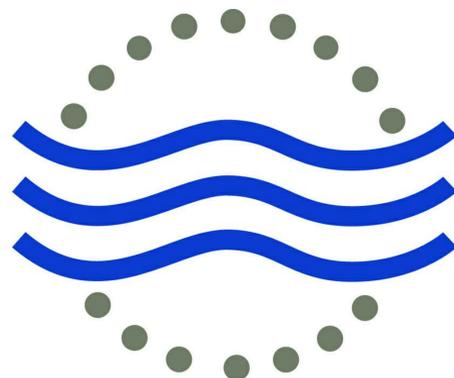


# BROWNSVILLE PUB ADMINISTRATION BUILDING RESTROOMS RENOVATION

BROWNSVILLE PUBLIC UTILITIES BOARD

BROWNSVILLE, TX



## B R O W N S V I L L E PUBLIC UTILITIES BOARD

### BOARD OF DIRECTORS

NURITH GALONSKY	CHAIR
MARTIN C. ARAMBULA	VICE CHAIR
CELESTINO "TINO" VILLARREAL	SECRETARY/TREASURER
RAFAEL S. CHACON	MEMBER
ARMANDO MAGALLANES	MEMBER
ANNA E. OQUIN	MEMBER
ANTONIO "TONY" MARTINEZ	EX-OFFICER MEMBER

### 100% CONSTRUCTION DOCUMENTS

ERO'S PROJECT #16002A

#### PROJECT TEAM



**OWNER:**  
BROWNSVILLE PUBLIC UTILITIES BOARD  
1495 ROBINHOOD DR.  
BROWNSVILLE, TX 78521  
TEL: (956) 983-6100  
WWW.BROWNSVILLE-PUB.COM



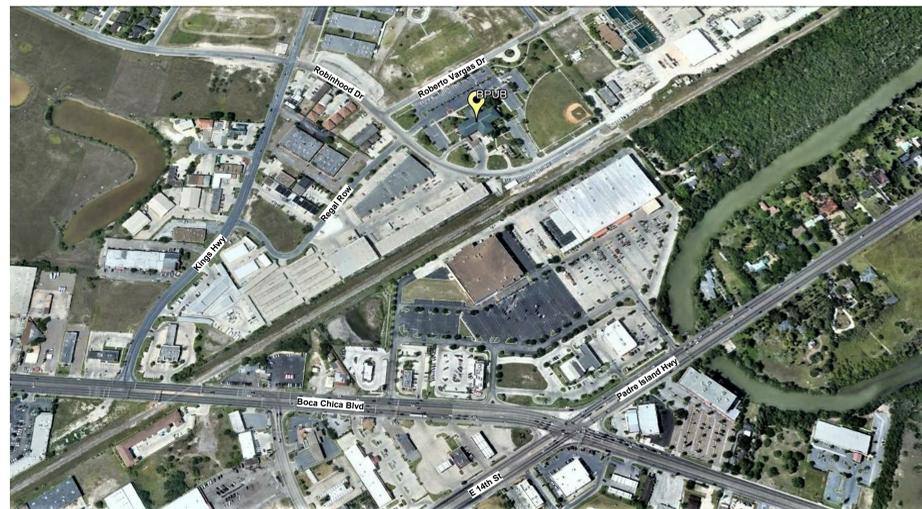
**ARCHITECT:**  
ERO ARCHITECTS  
300 SOUTH 8TH STREET  
MCALLEN, TX 78501  
TEL: 956.661.0400  
FAX: 956.661.0401  
WWW.EROARCHITECTS.COM



**MEP:**  
HALFF ASSOCIATES  
5000 WEST MILITARY HIGHWAY SUITE 100  
MCALLEN, TEXAS 78503  
TEL: 956.664.0286  
FAX: 956.664.0282  
WWW.HALFF.COM

#### LOCATION

1495 ROBINHOOD DR.  
BROWNSVILLE, TX 78521



#### SHEET NUMBER

#### SHEET NAME

GENERAL	COVER SHEET
GI0001	
ARCHITECTURAL	
AE101	1ST FLOOR LOBBY RESTROOM
AE102	1ST FLOOR EMPLOYEES RESTROOM
AE103	2ND FLOOR EMPLOYEES RESTROOM
AE104	DETAILS
AE601	SCHEDULES
MECHANICAL	
MH001	MECHANICAL GENERAL LEGEND
MD101	MECHANICAL DEMOLITION PLAN
MH101	MECHANICAL PLAN
MH601	MECHANICAL SCHEDULES & DETAILS
ELECTRICAL	
EL001	ELECTRICAL LEGEND
ED101	ELECTRICAL DEMOLITION PLAN
EP101	ELECTRICAL PLAN
PLUMBING	
PL001	PLUMBING GENERAL LEGEND
PL101	PLUMBING PLANS
PL601	PLUMBING RISERS SCHEMATIC DIAGRAMS
PL602	PLUMBING SCHEDULES AND DETAILS



300 S. 8th Street,  
McAllen, Tx 78501  
T 956-661-0400  
F 956-661-0401  
eroarchitects.com



**CONSULTANTS:**  
**MEP:**  
HALFF ASSOCIATES  
5000 WEST MILITARY HIGHWAY SUITE 100  
MCALLEN, TEXAS 78503  
(956) 664-0286

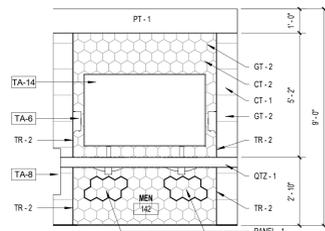
PROJECT NAME: **BROWNSVILLE PUB ADMINISTRATION BUILDING RESTROOMS RENOVATION**  
PROJECT LOCATION: 1495 ROBINHOOD DR. BROWNSVILLE, TX 78521  
PROJECT OWNER: BROWNSVILLE PUBLIC UTILITIES BOARD

PROJECT NO.	16002A
DRAWN BY	Author
CHECKED BY	Checker
SHEET TITLE	

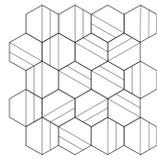
COVER SHEET

GI0001

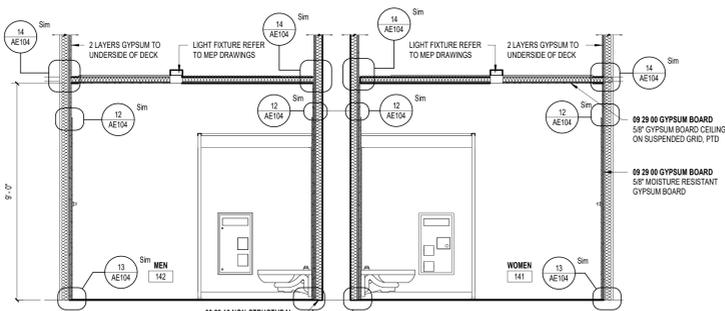




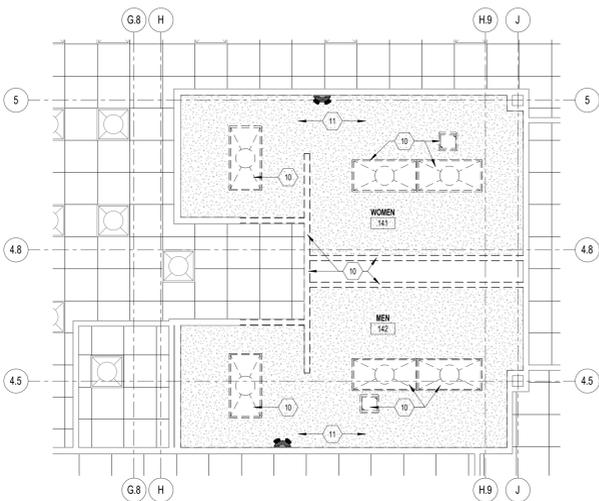
01 INTERIOR ELEVATION  
3/8" = 1'-0"



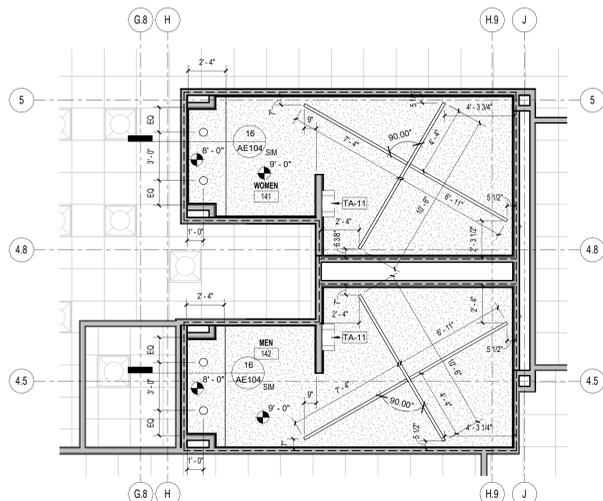
02 CT - 2 PATTERN  
1" = 1'-0"



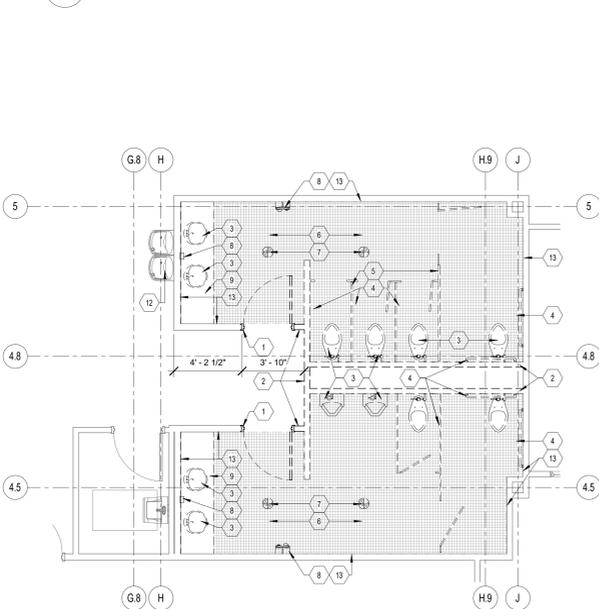
03 PARTIAL BUILDING SECTION  
3/8" = 1'-0"



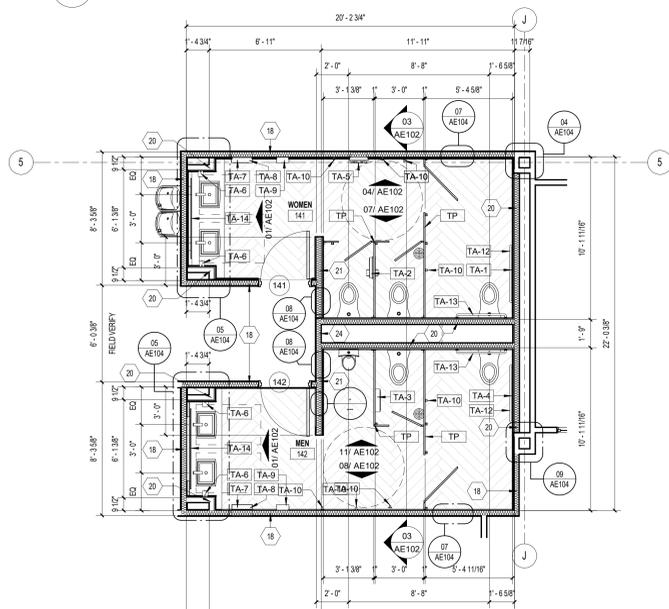
05 DEMOLITION FIRST FLOOR RCP  
1/4" = 1'-0"



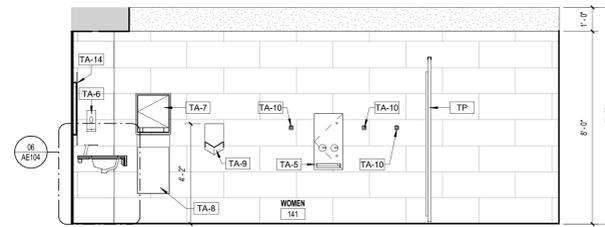
06 RENOVATION FIRST FLOOR RCP  
1/4" = 1'-0"



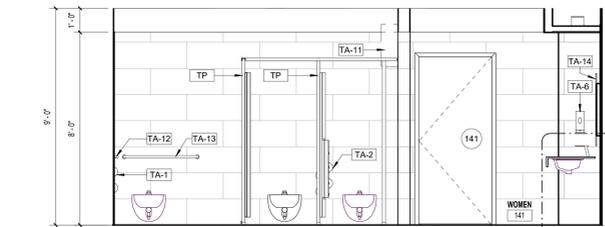
09 DEMOLITION FIRST FLOOR RESTROOM PLAN  
1/4" = 1'-0"



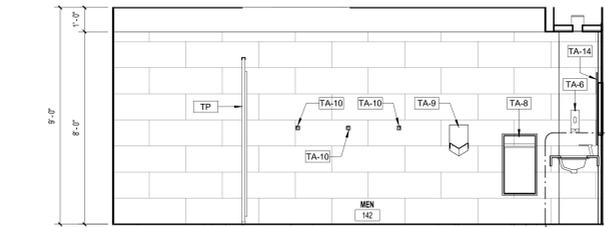
10 RENOVATION FIRST FLOOR RESTROOM PLAN  
1/4" = 1'-0"



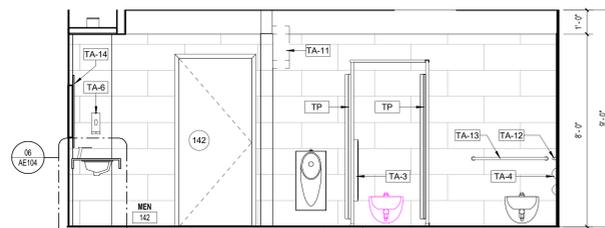
04 INTERIOR ELEVATION  
3/8" = 1'-0"



07 INTERIOR ELEVATION  
3/8" = 1'-0"



08 INTERIOR ELEVATION  
3/8" = 1'-0"



11 INTERIOR ELEVATION  
3/8" = 1'-0"

RCP LEGEND		TOILET ACCESSORIES	
	CEILING TYPE 1 5/8" GYPSUM BOARD CEILING ON GRID SUSPENSION SYSTEM FOR GYPSUM BOARD CEILING. PTD. SEE 14AE104 & 15AE104 FOR TYPICAL DETAILS	<b>TYPE MARK</b>	<b>TYPE</b>
	CEILING TYPE 2 2"x2" SUSPENDED ACOUSTICAL CEILING SYSTEM. BASIS OF DESIGN: ROCKFON ARTIC	TA-1	RECESSED TOILET PAPER DISPENSER - B-3074
	DASHED LINE IN PARTITION INDICATES PARTITIONS EXTENSION TO STRUCTURE	TA-2	PARTITION MOUNTED DISPENSER - B-3071
	1 HR. FIRE RATED WALL	TA-3	SURFACE MOUNTED DISPENSER - B-3079
		TA-4	RECESSED TOILET PAPER DISPENSER - B-3074
		TA-5	SEMI-RECESSED SANITARY NAPKIN DISPENSER - B-3036A
		TA-6	SURFACE MOUNTED FOAM SOAP DISPENSER - B-2013
		TA-7	ELECTRIC PAPER TOWEL DISPENSER - B-2014
		TA-8	TRASH RECEPTACLE - B-3044
		TA-9	ELECTRIC HAND DRYER - V-8012
		TA-10	COAT HOOKS - 4" x 1/2" MAX. ON ADA COMPARTMENT
		TA-11	AIR PURIFIER DEVICE (BY OWNER)
		TA-12	42" GRAB BAR - W/ GRIPPING SURFACE FINISH
		TA-13	30" GRAB BAR - W/ GRIPPING SURFACE FINISH
		TA-14	30" x 60" FRAMELESS MIRROR
		TA-15	MULTIROLL TOILET TISSUE DISPENSER - S425 - BRADLEY CORP
		TA-16	SANITARY NAPKIN DISPENSER - B-2013
		TP	TOILET PARTITIONS, REF. SPECS

NOTE:  
LISTED MODEL NUMBERS & BRANDS ARE BASIS OF DESIGN.  
REF. SPECS FOR ADDITIONAL APPROVED MANUFACTURERS.

DEMOLITION GENERAL NOTES

- THE EXTENT OF DEMOLITION WORK IS SHOWN ON THE DRAWINGS. IT IS NOT POSSIBLE TO SHOW ALL REQUIRED DEMOLITION. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE FACILITY TO DETERMINE THE EXTENT OF DEMOLITION AND REMODELING WORK, AND FAMILIARIZE HIMSELF WITH THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED PRIOR TO SUBMITTING A BID AND COMMENCING WORK.
- CONTRACTOR'S FORCES ARE RESTRICTED TO DESIGNATED AREAS.
- THE GENERAL CONTRACTOR SHALL FURNISH AND MAINTAIN SATISFACTORY BARACADES AND/OR OTHER SUITABLE BARRIERS AS REQUIRED TO PROVIDE PROTECTION TO THE PUBLIC AND WORKERS DURING ALL DEMOLITION ACTIVITIES.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, EQUIPMENT AND FURNITURE THAT IS TO BE LEFT IN PLACE.
- GRAPHIC REPRESENTATIONS THAT ARE NOT NOTED SHALL BE REFERENCED TO SIMILAR GRAPHIC REPRESENTATIONS THAT ARE CLEARLY NOTED. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES HAVING JURISDICTION.
- THE OWNER HAS THE RIGHT TO SALVAGE ANY AND ALL DEMOLISHED MATERIALS THAT ARE SCHEDULED FOR DEMOLITION BY CONTRACTOR.
- ITEMS OR MATERIALS THAT ARE TO REMAIN, SHALL BE PATCHED, CLEANED, RUBBED, SANDED, FLOATED, ETC TO A "LIKE NEW" CONDITION, AS TO MATCH ADJACENT NEW SCHEDULED MATERIALS.
- WHERE EXISTING STRUCTURE OR ELEMENTS ARE DAMAGED BY CONTRACTOR DURING DEMOLITION (WHICH ARE NOT SCHEDULED) TO BE REMOVED, CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGED ITEMS.
- ALL DEMOLITION ACTIVITIES MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. SUSPEND WORK IMMEDIATELY AND NOTIFY ARCHITECT AND OWNER.

DEMOLITION FLOOR PLAN LEGEND



NOTE:  
ALL OFFERERS ARE STRONGLY ENCOURAGED TO VISIT THE SITE TO ASCERTAIN EXACT EXISTING CONDITIONS AND COMPONENTS RELATED TO THE EXECUTION OF THE WORK ITEMS DESCRIBED HEREIN. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES.  
AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUEST FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE OFFERER.

DEMOLITION SHEET KEYNOTES

- EXISTING DOOR, FRAME, AND HARDWARE ASSEMBLY TO BE DEMOLISHED. DISPOSE PER OWNER'S DIRECTIONS.
- EXISTING METAL STUDS & GYP BOARD PARTITION TO BE DEMOLISHED.
- EXISTING PLUMBING FIXTURES TO BE REMOVED. DISPOSE PER OWNER'S DIRECTIONS.
- EXISTING TOILET ACCESSORIES TO BE REMOVED. DISPOSE PER OWNER'S DIRECTIONS.
- EXISTING TOILET PARTITIONS TO BE DEMOLISHED.
- EXISTING CERAMIC TILE FLOORING TO BE DEMOLISHED.
- EXISTING FLOOR DRAINS. REFER MEP DRAWINGS.
- REMOVE HAND DRYERS, PAPER TOWEL DISPENSERS AND SOAP DISPENSERS AND RETURN TO OWNER.
- DEMOLISH ALL MILLWORK.
- DEMOLISH ALL LIGHT FIXTURES AND CEILING MOUNTED EQUIPMENT. REFER MEP DRAWINGS.
- DEMOLISH GYPSUM BOARD CEILING.
- EXISTING ELECTRIC DRINKING FOUNTAINS TO REMAIN.
- DEMOLISH WALL TILE & GYPSUM BOARD. EXISTING METAL STUDS TO REMAIN.
- ELECTRICAL PANELS TO BE RELOCATED. REFER ELECTRICAL.
- EXISTING MOP SINK TO BE DEMOLISH. REFER PLUMBING.
- ELECTRIC DRINKING FOUNTAINS TO BE DEMOLISH. REFER MEP.
- AV RACK TO BE RELOCATED. REFER ELECTRICAL.

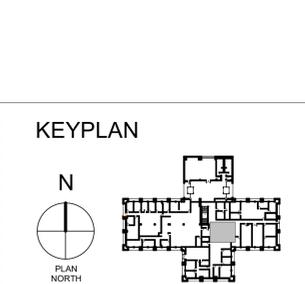
FLOOR PLANS GENERAL NOTES

- THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" (AIA, DOC. A201, 2007 EDITION) GOVERN THE WORK, UNLESS NOTED OTHERWISE. THE MOST STRINGENT REQUIREMENTS SHALL PREVAIL.
- IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY AND PRICE SHALL SUPERSEDE.
- THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON-SITE CONDITIONS PRIOR TO BEGINNING OR COMMENCING WORK.
- BRING IMMEDIATELY TO THE ARCHITECT'S ATTENTION ANY ERRORS, OMISSIONS OR DISCREPANCIES. THE GENERAL SHALL BE RESPONSIBLE TO CORRECT ANY DEFECTIVE WORK CAUSED BY PROCEEDING WITH WORK. WHEN DISCREPANCIES FROM THE ARCHITECT WERE NOT SOUGHT.
- EXAMINE SPECIFIED PRODUCTS AND SUBMIT WRITTEN EXCEPTIONS, OBJECTIONS, OR SUBSTITUTIONS WITH ANALYSIS AND RECOMMENDATIONS PRIOR TO SUBMITTING BID COSTS OR COMMENCING WORK.
- THE RESPONSIBILITY FOR THE ADEQUACY OF PROPOSED SUBSTITUTIONS FALLS ON THE GENERAL CONTRACTOR. SHOULD A SUBSTITUTION PRODUCT FAIL TO PERFORM WHERE THE ORIGINALLY SPECIFIED PRODUCT WOULD HAVE PERFORMED, THE GENERAL CONTRACTOR SHALL PERFORM ALL NECESSARY WORK TO RECONSTRUCT THE ORIGINAL PRODUCT AT NO ADDITIONAL COST.
- ALL MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED AGAINST DEFECTS FOR A PERIOD OF AT LEAST ONE (1) YEAR FROM THE APPROVAL FOR FINAL PAYMENT, UNLESS STIPULATED OTHERWISE.
- WHETHER MATERIAL ARE STORED AT THE JOBSITE, THEY SHOULD BE PROTECTED FROM DAMAGE, VANDALISM, FIRE AND INCLEMENT WEATHER. THE GENERAL CONTRACTOR SHALL PROVIDE EVIDENCE OF INSURANCE FOR MATERIALS STORED PRIOR TO PAYMENT BY THE OWNER.
- THE WORD "PROVIDE" SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY TO USE."
- "TYPICAL" MEANS "IDENTICAL FOR ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE."
- "SIMILAR" MEANS "COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS, ORIENTATION OR SYMMETRY ON RELATED DRAWINGS."
- PROVIDE ALL REQUIRED UTILITY STRUCTURAL COMPONENTS AND CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES IN THE CONSTRUCTION DOCUMENTS.
- INSTALL DRYWALL WORK IN ACCORDANCE WITH THE CURRENT VERSION OF U.S.G. - "GYPSUM CONSTRUCTION HANDBOOK, A.S.T.M. AT 645, A.S.T.M. AT 798, AND A.S.T.M. AT 840," THE MOST STRINGENT REQUIREMENTS SHALL PREVAIL.
- PROVIDE ALL ITEMS AND LABOR REQUIRED FOR A COMPLETE INSTALLATION OF A SYSTEM OR ASSEMBLY, INCLUDING BUT NOT LIMITED TO, REQUIRED BRACING, ACCESS PANELS, JUNCTION BOXES OR ITEMS CALLED FOR IN MANUFACTURER'S LITERATURE.
- ALL PENETRATIONS THROUGH FIRE-RATED WALLS SHOULD BE PROVIDED IN ACCORDANCE WITH THE IBC 2012.
- DO NOT SCALE DRAWINGS.
- COORDINATE WITH THE CONSTRUCTION DOCUMENTS THE PARTITION TYPES AND THEIR THICKNESS FOR INTERNAL INCLUSIONS, SUCH AS PLUMBING AND FOR CORRECT INSTALLATION OF EQUIPMENT, PANELS, FIRE EXTINGUISHER, ETC.
- REFER TO CEILING PLANS FOR INDICATIONS OF PARTITIONS EXTENDED TO BOTTOM OF STRUCTURE.
- REFER TO AER1 FOR DOOR & WINDOW TYPES, PARTITION TYPES, AND ROOM FINISH SCHEDULES.

FLOOR PLAN KEYNOTES

- EXISTING PARTITION: PARTITION TO DECK. REPLACE ANY DAMAGED OR CORRODED METAL STUDS AND PROVIDE BATT INSULATION AS NOTED IN FLOOR PLAN. PROVIDE ONE LAYER OF 5/8" GLASS MAT, WATER-RESISTANT BACKING BOARD OVER ON LAYER OF 5/8" GYP. ON OCCUPIED SIDE. PROTECT EXISTING GYPSUM BOARD ON OPPOSITE SIDE. @ FIRE PARTITION - UL DESIGN 419 & TREAT AS PER MULTI-PRESTOP SYSTEM. HW-0402 (UL DESIGN 2079).
- EXISTING PARTITION: PARTITION TO DECK. REPLACE ANY DAMAGED OR CORRODED METAL STUDS AND PROVIDE BATT INSULATION AS NOTED IN FLOOR PLAN. PROVIDE ONE LAYER OF 5/8" GLASS MAT, WATER-RESISTANT BACKING BOARD OVER ON LAYER OF 5/8" GYP. ON OCCUPIED SIDE.
- NEW PARTITION: PARTITION TO DECK. 3.5" METAL STUDS @ 16" O.C. W/ ONE LAYER OF 5/8" GLASS MAT, WATER-RESISTANT BACKING BOARD OVER ONE LAYER OF 5/8" GYP. ON OCCUPIED SIDE. PROVIDE BATT INSULATION.
- NEW PARTITION: PARTITION TO DECK. 3.5" METAL STUDS @ 16" O.C. W/ ONE LAYER OF 5/8" GYP. BOARD TYPE X ON ONE SIDE & ONE LAYER OF 5/8" GLASS MAT, WATER-RESISTANT BACKING BOARD OVER ONE LAYER OF 5/8" GYP. ON OPPOSITE SIDE. PROVIDE BATT INSULATION AS NOTED IN FLOOR PLAN.
- NEW PARTITION: 1'-0" ABOVE ADJACENT HIGHEST CEILING. 3.5" METAL STUDS @ 16" O.C. W/ ONE LAYER OF 5/8" GYP. BOARD TYPE X ON OCCUPIED SIDE. PROVIDE BATT INSULATION AS NOTED IN FLOOR PLAN.
- NEW PARTITION: PARTITION TO DECK. 3.5" METAL STUDS @ 16" O.C. W/ ONE LAYER OF 5/8" GYP. BOARD TYPE X ON BOTH SIDES. @ FIRE PARTITION - UL DESIGN 419 & TREAT AS PER MULTI-PRESTOP SYSTEM. HW-0402 (UL DESIGN 2079).
- NEW PARTITION: 1'-0" ABOVE ADJACENT HIGHEST CEILING. 3.5" METAL STUDS @ 16" O.C. W/ ONE LAYER OF 5/8" GLASS MAT, WATER-RESISTANT BACKING BOARD ON OCCUPIED SIDE. PROVIDE BATT INSULATION AS NOTED IN FLOOR PLAN.
- EXISTING PARTITION TO BE TREATED AS FIRE RATED. PARTITION TO DECK. REPLACE ANY DAMAGED OR CORRODED METAL STUDS AND PROVIDE BATT INSULATION AS NOTED IN FLOOR PLAN. @ FIRE PARTITION - UL DESIGN 419 & TREAT AS PER MULTI-PRESTOP SYSTEM HW-0402 (UL DESIGN 2079).

KEYPLAN



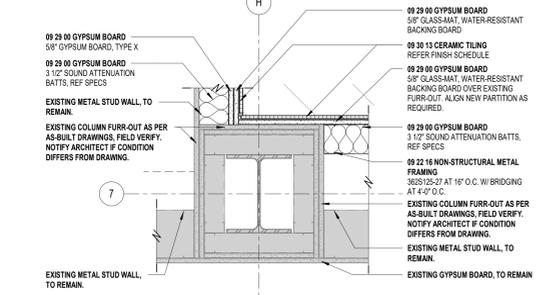
CONSULTANTS:  
MEP:  
HALFF ASSOCIATES  
3001 WEST BURNHAM PARKWAY SUITE 100  
MCALLEN, TEXAS 78505  
(956) 661-0285

Description	PROJECT NO.	PROJECT LOCATION	PROJECT OWNER
Date	16002A	S.C.	
No.	151	FIRST FLOOR EMPLOYEES RESTROOM	
	AE102		

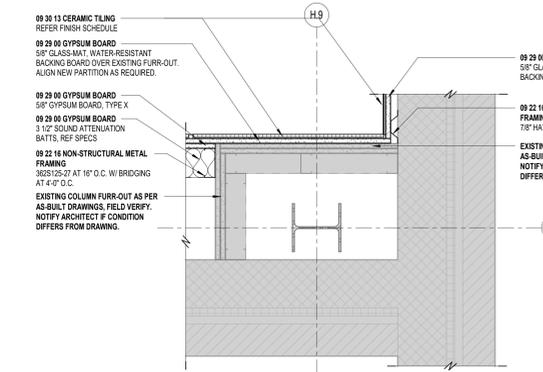




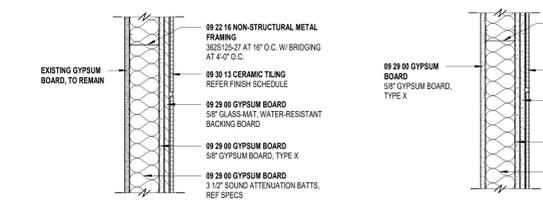
CONSULTANTS:  
 MEPC:  
 HALFF ASSOCIATES  
 8001 WEST HUNTER STREET, SUITE 100  
 McALLEN, TEXAS 78505  
 (956) 669-0285



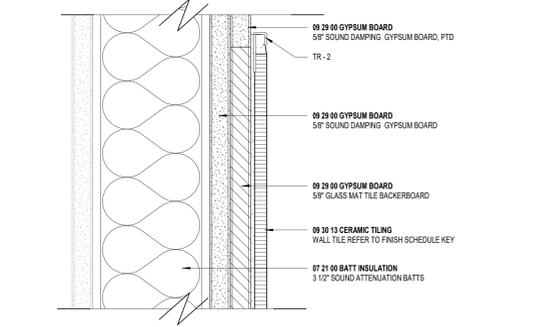
**01 PLAN DETAIL**  
 1 1/2" = 1'-0"



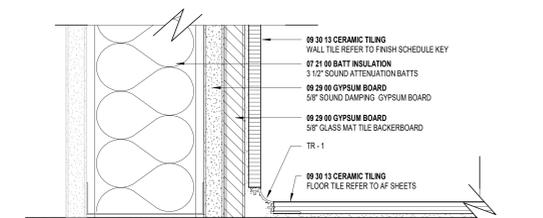
**03 PLAN DETAIL**  
 1 1/2" = 1'-0"



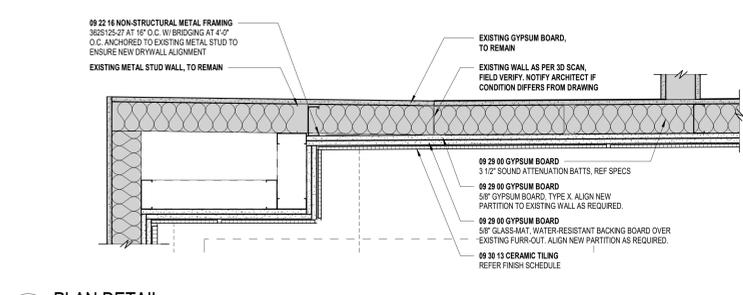
**07 PLAN DETAIL**  
 1 1/2" = 1'-0"



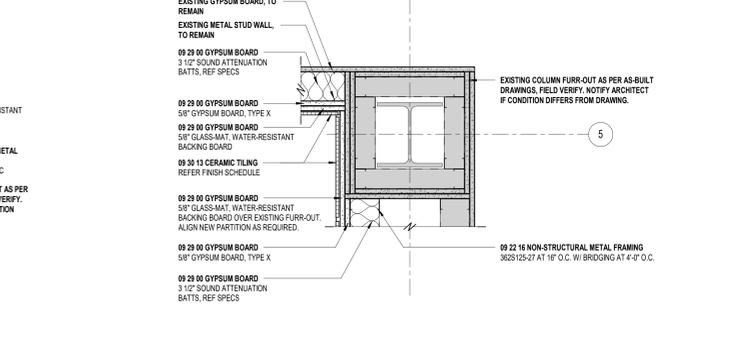
**12 WALL TRANSITION DETAIL**  
 6" = 1'-0"



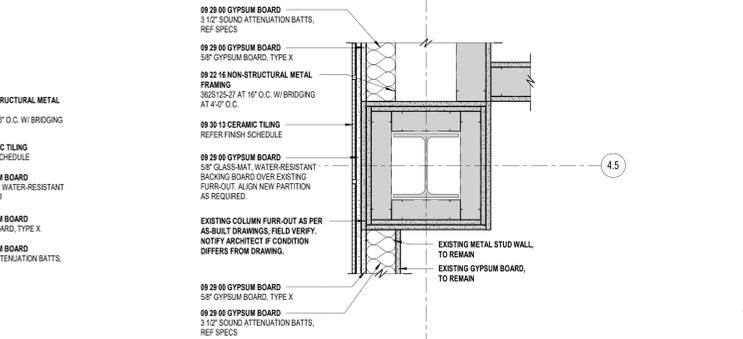
**13 FLOOR TRANSITION DETAIL**  
 6" = 1'-0"



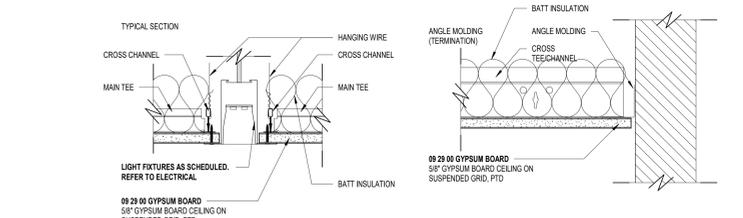
**02 PLAN DETAIL**  
 1 1/2" = 1'-0"



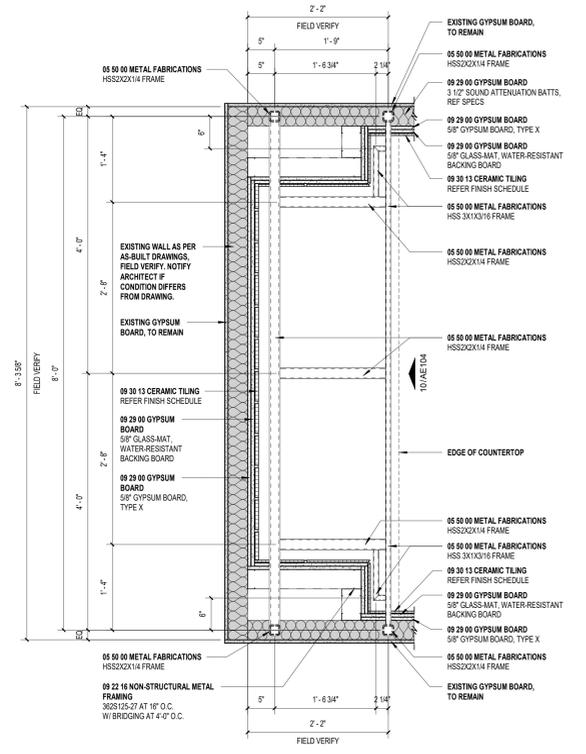
**04 PLAN DETAIL**  
 1 1/2" = 1'-0"



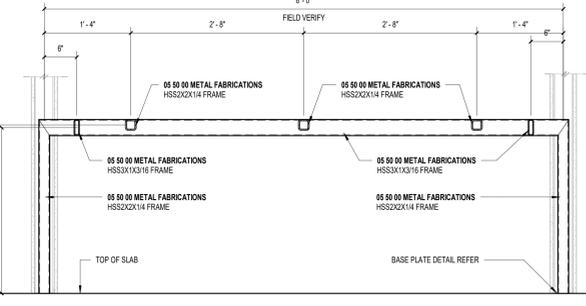
**09 PLAN DETAIL**  
 1 1/2" = 1'-0"



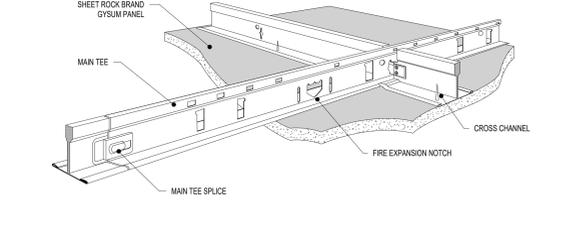
**14 SUSPENSION SYSTEM DETAILS**  
 3" = 1'-0"



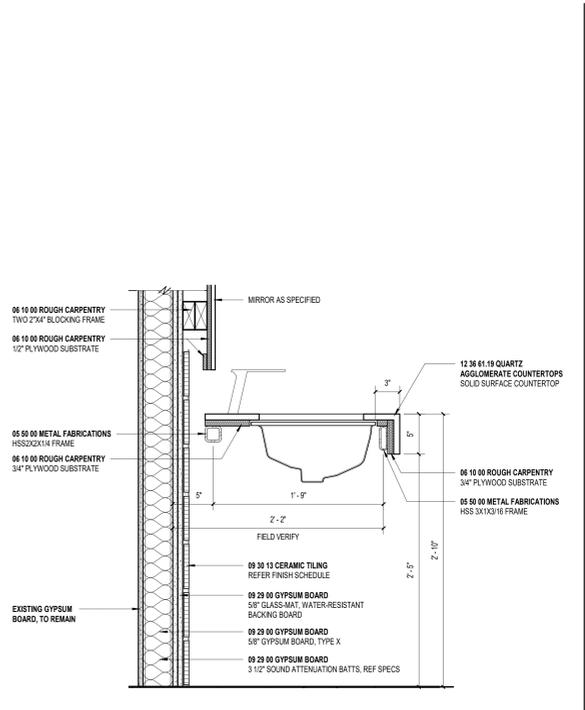
**05 RESTROOMS COUNTERTOP FRAME - PLAN DETAIL**  
 1" = 1'-0"



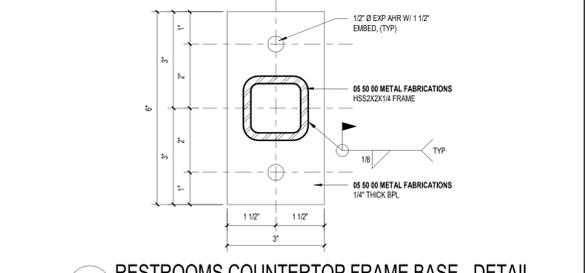
**10 RESTROOMS COUNTERTOP - FRAME ELEVATION**  
 1" = 1'-0"



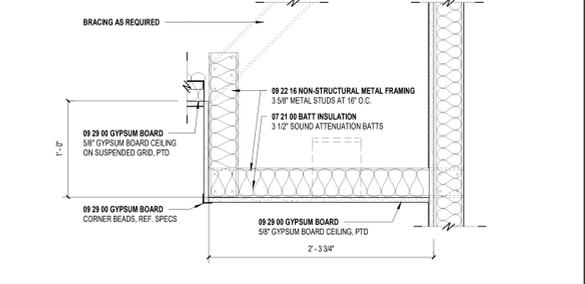
**15 SUSPENSION SYSTEM ISOMETRIC VIEW**  
 1" = 1'-0"



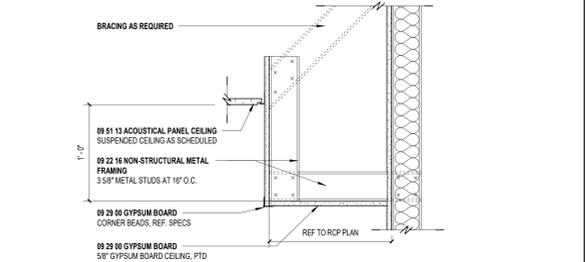
**06 RESTROOMS COUNTERTOP - SECTION**  
 1 1/2" = 1'-0"



**11 RESTROOMS COUNTERTOP FRAME BASE - DETAIL**  
 6" = 1'-0"



**16 RCP DETAIL**  
 1 1/2" = 1'-0"



**17 RCP DETAIL**  
 1 1/2" = 1'-0"

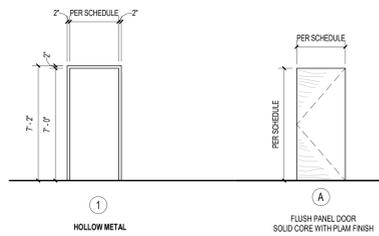
**BROWNSVILLE PUB ADMINISTRATION BUILDING  
 RESTROOMS RENOVATION**

PROJECT NAME: BROWNSVILLE PUB ADMINISTRATION BUILDING RESTROOMS RENOVATION  
 PROJECT LOCATION: BROWNSVILLE, TX 78201  
 PROJECT OWNER: BROWNSVILLE PUBLIC UTILITIES BOARD

Description	Date	No.	Drawn By	Checked By	Sheet Title

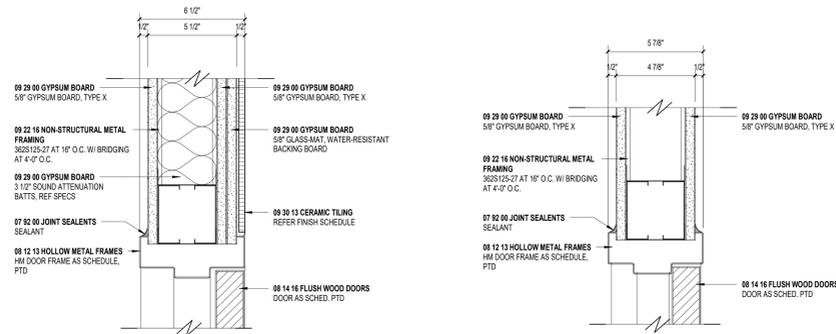
PROJECT NO.: 16002A  
 S.C.  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]

DOOR SCHEDULE													Fire Rating	COMMENTS
MARK	SIBL	DOOR				FRAME					FINISH			
		ELEVATION ID	FINISH	WIDTH	HEIGHT	THICKNESS	TYPE	HEAD DETAIL	JAMB DETAIL	SILL DETAIL		HARDWARE SET NO.		
103	SINGLE	A	PLAM-1	3'-0"	7'-0"	1 3/4"	1	02AEB01	04AEB01	05AEB01	GROUP NO. 02	PT-2	45	
104	SINGLE	A	PLAM-1	3'-0"	7'-0"	1 3/4"	1	02AEB01	04AEB01	05AEB01	GROUP NO. 01	PT-2		
105	SINGLE	A	PLAM-1	3'-0"	7'-0"	1 3/4"	1	02AEB01	04AEB01	05AEB01	GROUP NO. 01	PT-2		
141	SINGLE	A	PLAM-1	3'-0"	7'-0"	1 3/4"	1	02AEB01	04AEB01	05AEB01	GROUP NO. 01	PT-2		
142	SINGLE	A	PLAM-1	3'-0"	7'-0"	1 3/4"	1	02AEB01	04AEB01	05AEB01	GROUP NO. 01	PT-2		
257	SINGLE	A	PLAM-1	3'-0"	7'-0"	1 3/4"	1	02AEB01	04AEB01	05AEB01	GROUP NO. 01	PT-2		
258	SINGLE	A	PLAM-1	3'-0"	7'-0"	1 3/4"	1	02AEB01	04AEB01	05AEB01	GROUP NO. 01	PT-2		



**01 DOOR & FRAME TYPE ELEVATION**

1/4" = 1'-0"



**02 HEAD DETAIL**

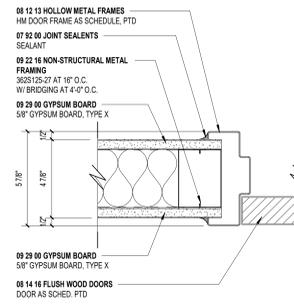
3" = 1'-0"

**03 HEAD DETAIL**

3" = 1'-0"

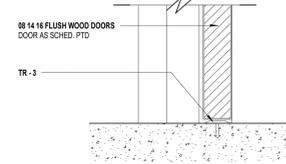
**04 JAMB DETAIL**

3" = 1'-0"



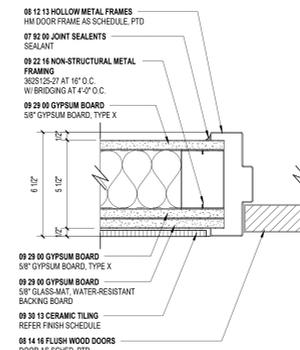
**05 DOOR SILL**

3" = 1'-0"



**06 JAMB DETAIL**

3" = 1'-0"



FINISH SCHEDULE GENERAL NOTES		FINISH SCHEDULE KEY									
1. ALL WALL, GYP. CEILING AND FURDOWNS TO BE PAINTED PT-1 UNLESS INDICATED OTHERWISE. FURDOWNS DASHED IN FOR CLARITY.		GWB-1	ACOUSTIC GYPSUM WALL BOARD	PT-1	EDER WHITE SW 704 SHERWIN-WILLIAMS	GT-3	TRUFFLE #569 CUSTOM BUILDING PRODUCTS	CT-8	K MATTES ABSOLUTE BLACK 2 1/8" X 8 1/2" INTERCERAMIC	TR-1	DILEX-AKH CYBE BASE AKH1510AE-38P
2. MANUFACTURERS, PROFILES AND COLORS LISTED AS BASIS OF DESIGN. REFER TO SPECIFICATIONS.		GWB-2	PAINTED GYPSUM WALL BOARD	PT-2	STAMPED CONCRETE SW 755 SHERWIN-WILLIAMS	CT-3	NORWAY NARVIK BRONZE 7" x 36" INTERCERAMIC 45° HERRINGBONE INSTALLATION	CT-9	ADAMAS AZURA 4" x 12" STONEPEAK BRICK BOND INSTALLATION	DILEX-AKH CONNECTOR ALUM VIAHK	
3. ALL DOOR FRAMES AND HOLLOW METAL DOORS TO BE PAINTED PT-2. INTERIOR DOOR FINISH TO BE PLAM-1.		CT-1	SCULPTURE FLAT WHITE 13" x 36" EMBER TILE RUNNING BOND INSTALLATION	PT-3	RAINSTORM SW 520 SHERWIN-WILLIAMS	CT-4	NORWAY NARVIK BRONZE 7" x 36" INTERCERAMIC STAGGERED INSTALLATION	PT-1	ECLIPSE PARTITIONS CLASSIC COOL WHITE & TEXTURE: CP SCRANTON PRODUCTS	DILEX-AKH END CAP EIAKH13SAE	
		CT-2	CODE WHITE HEXAGON 30 6" x 6" EMBER TILE REF. AE1011 F2 FOR INSTALL.	GT-1	GRAYSTONE #562 CUSTOM BUILDING PRODUCTS USE WITH CT-3, CT-4, CT-7 & CT-8	CT-5	CEMENTINE CONTRAST CIRCULU 18" x 18" INTERCERAMIC STACKED BOND INSTALLATION	PANEL-1	REMA ACCESS PANEL KIT SCHLUTER	DILEX-AKH IN CORNER 90° I90AHK13SAE	
		QTZ-1	LYRA C2001 WILSONART	GT-2	BRIGHT WHITE #38 CUSTOM BUILDING PRODUCTS					DILEX-AKH OUT CORNER 90° SCHLUTER	
		PLAM-1	MANGALORE MANGO 796-38 WILSONART							QUADEC Q100AE-38P "USE AT OUTSIDE CORNERS WITH CT-1 EVQ100AE-38P"	
										QUADEC IN/OUT CORNER EVQ100AE-38P SCHLUTER	
										RONDECQUADEC CONNECTOR VIND100-38P SCHLUTER	
										RENQ-T T 823 AE-1" WIDE	

**ero architects**

300 S. 8th Street,  
McAllen, Tx 78501  
T 956-661-0400  
F 956-661-0401  
eroarchitects.com

CONSULTANTS:  
HALFF ASSOCIATES  
8001 W. 11TH STREET, SUITE 100  
MCALLEN, TEXAS 78505  
(956) 664-0286

**3.02 HARDWARE SETS**

SPEXTRA: 446844  
HARDWARE GROUP NO. 01 - WOMEN/MEN  
FOR USE ON MARK/DOOR #(S):

104	105	141	142	257	258
-----	-----	-----	-----	-----	-----

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA PUSH PLATE	8200 8" X 16"	630	IVE
1	EA PULL PLATE	8305 8" 3.5" X 15"	630	IVE
1	EA SURFACE CLOSER	1450 REG ARM	689	LCN
1	EA PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS406CCV	630	IVE
3	EA SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 02 - AV/ELECTRICAL

FOR USE ON MARK/DOOR #(S):  
103

EACH TO HAVE:

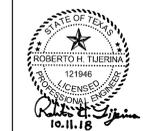
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA STOREROOM LOCK	ND80PD RHO	626	SCH
1	EA SURFACE CLOSER	1450 EDA	689	LCN
1	EA PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA WALL STOP	WS406CCV	630	IVE
1	EA GASKETING	8145S-BK-HEAD & JAMBS	BK	ZER

**BROWNSVILLE PUB ADMINISTRATION BUILDING  
RESTROOMS RENOVATION**

PROJECT NAME: BROWNSVILLE PUB ADMINISTRATION BUILDING  
PROJECT LOCATION: BROWNSVILLE, TX 78401  
PROJECT OWNER: BROWNSVILLE PUBLIC UTILITIES BOARD

No.	Date	Description

PROJECT NO: 16002A  
DRAWN BY: Author  
CHECKED BY: Checker  
SHEET TITLE: SCHEDULES



**CONSULTANTS:**  
**MEP:** HALF ASSOCIATES  
 500 WEST MILITARY HIGHWAY SUITE 100  
 McALLEN, TEXAS 78503  
 (956) 664-2886

**Brownsville PUB Admin Bldg  
 Renovations**  
 FASE B-BROWNSVILLE DR.,  
 BROWNSVILLE, TX  
 BROWNSVILLE PUBLIC UTILITIES BOARD

**MECHANICAL GENERAL LEGEND**

DUCTWORK SYMBOLS		PIPING SYMBOLS		MISCELLANEOUS SYMBOLS		GENERAL ABBREVIATIONS		GENERAL MECHANICAL NOTES	
<b>DESCRIPTION</b>	<b>SYMBOL</b>	<b>SYMBOL</b>	<b>DESCRIPTION</b>	<b>SYMBOL</b>	<b>DESCRIPTION</b>	<b>ABBV</b>	<b>ABOVE</b>	<b>MAX</b>	<b>MAXIMUM</b>
BACKDRAFT DAMPER		CHWS	CHILLED WATER SUPPLY		DUCT STATIC PRESSURE SENSOR	AFB	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
BALANCING VOLUME DAMPER		CHWR	CHILLED WATER RETURN		DUCT SMOKE DETECTOR	AFMS	AIR FLOW MEASURING STATION	MIN	MINIMUM
OPPOSED BLADE DAMPER		CWS	CONDENSOR WATER SUPPLY		CARBON DIOXIDE SENSOR	AMB	AMBIENT	MVD	MOTORIZED VOLUME DAMPER
SMOKE DAMPER		HWS	HOT WATER SUPPLY		POINT OF NEW CONNECTION TO EXISTING	APD	AIR PRESSURE DROP	MW	MAKE UP WATER
FIRE DAMPER		HWR	HOT WATER RETURN		RELATIVE HUMIDITY SENSOR	BD	BLOWDOWN	NC	NORMALLY CLOSED
FIRE SMOKE DAMPER		PCWS	PRIMARY CHILLED WATER SUPPLY		AVERAGING THERMOSTAT OR TEMPERATURE SENSOR (MOUNT 48" AFF)	BDD	BACK DRAFT DAMPER	NK	NECK
DUCT ELBOW WITH TURNING VANES		PCWR	PRIMARY CHILLED WATER RETURN		THERMOSTAT OR TEMPERATURE SENSOR (MOUNT 48" AFF)	BF	BLIND FLANGE	NO	NORMALLY OPEN OR NUMBER NOT TO SCALE
DUCT SECTION - SUPPLY AIR		SCWS	SECONDARY CHILLED WATER SUPPLY		FREEZESTAT	BFV	BUTTERFLY VALVE		
DUCT SECTION - EXHAUST AIR		SCWR	SECONDARY CHILLED WATER RETURN		DIRECTION OF PITCH (DOWN)	BHP	BRAKE HORSEPOWER		
DUCT SECTION - RETURN, OUTSIDE, OR RELIEF AIR		D	DRAIN		AIR FLOW (CFM)	BLV	BLIND VALVE		
DUCT, INCLINED DROP		ANGLE VALVE	SOLENOID VALVE		RECTANGULAR FACE SIZE (WHERE APPLICABLE)	BOO	BOTTOM OF DUCT		
DUCT, INCLINED RISE		2-WAY MOTOR OPERATED CONTROL VALVE	2-WAY MOTOR OPERATED CONTROL VALVE		DIRECTION OF SECTION	BOP	BOTTOM OF PIPE		
FLEXIBLE DUCT - ROUND		3-WAY CONTROL VALVE	3-WAY CONTROL VALVE		IDENTIFYING NUMBER OR LETTER FOR DETAILS.	BOS	BOTTOM OF STEEL		
DUCT TRANSITION (SQUARE OR RECTANGULAR TO ROUND)		TRIPLE DUTY VALVE	TRIPLE DUTY VALVE		ENLARGED DETAIL REFERENCE	BY	BALL VALVE		
RECTANGULAR DUCT, SIZE IN INCHES, FIRST DIMENSION IS SIDE SHOWN (NET CLEAR INSIDE DIMENSION)		FLOW CONTROL VALVE	FLOW CONTROL VALVE		NUMBER OF REFERENCE DRAWING WHERE DETAIL IS SHOWN.	CAP	CAPACITY		
ROUND DUCT, DIAMETER IN INCHES (NET CLEAR INSIDE DIMENSION)		PLUG VALVE	PLUG VALVE		IDENTIFYING NUMBER OR LETTER FOR DETAILS.	COMS	CENTRAL CONTROL MONITORING SYSTEM		
AIR FLOW IN DIRECTION OF ARROW		SIGHT GLASS	SIGHT GLASS		ENLARGED DETAIL REFERENCE	CENT	CENTRIFUGAL		
45° BRANCH TAKE-OFFS		TEST COCK	TEST COCK		NUMBER OF REFERENCE DRAWING WHERE DETAIL IS SHOWN.	CMBS	COMBUSTION AIR		
CONICAL LATERAL BRANCH TAKE-OFFS		PLUGGED TEE	PLUGGED TEE		IDENTIFYING NUMBER OR LETTER FOR DETAILS.	CL	CENTERLINE		
CEILING SUPPLY DIFFUSERS		FLOW METER	FLOW METER		ENLARGED DETAIL REFERENCE	CV	CONTROL VALVE OR CONSTANT VOLUME		
CEILING RETURN GRILLE-REGISTER		PRESSURE GAUGE WITH VENT COCK	PRESSURE GAUGE WITH VENT COCK		NUMBER OF REFERENCE DRAWING WHERE DETAIL IS SHOWN.	CHWS	CHILLED WATER SUPPLY		
CEILING EXHAUST FAN (EF...)		THERMOMETER	THERMOMETER		IDENTIFYING NUMBER OR LETTER FOR DETAILS.	CHWR	CHILLED WATER RETURN		
SEAWALL SUPPLY GRILLE-REGISTER		THERMAL WELL WITH TEMPERATURE SENSOR	THERMAL WELL WITH TEMPERATURE SENSOR		ENLARGED DETAIL REFERENCE	DB	DRY BULB		
SEAWALL RETURN EXHAUST GRILLE-REGISTER		STRAINER	STRAINER		NUMBER OF REFERENCE DRAWING WHERE DETAIL IS SHOWN.	DEG	DEGREES		
EXTRACTOR		STRAINER WITH BLOWDOWN VALVE	STRAINER WITH BLOWDOWN VALVE		IDENTIFYING NUMBER OR LETTER FOR DETAILS.	DIA	DIAMETER		
DUCT TEE WITH SPLITTER DAMPER		CONCENTRIC REDUCER	CONCENTRIC REDUCER		ENLARGED DETAIL REFERENCE	DN	DOWN		
DOOR UNDERCUT		ECCENTRIC REDUCER	ECCENTRIC REDUCER		NUMBER OF REFERENCE DRAWING WHERE DETAIL IS SHOWN.	DX	DIRECT EXPANSION		
DOOR LOUVER		UNION	UNION		IDENTIFYING NUMBER OR LETTER FOR DETAILS.	EAT	ENTERING AIR TEMPERATURE		

**AIRFLOW DIAGRAM SYMBOLS**

	COOLING COIL		MOTORIZED OPPOSED BLADE DAMPER
	HEATING COIL		MOTORIZED PARALLEL BLADE DAMPER
	LOUVER		FAN STARTER
	BACKDRAFT DAMPER		FAN
	FIRE-SMOKE DAMPER		FAN WITH ADJUSTABLE FREQUENCY MOTOR CONTROLLER
	AIR FLOW MEASURING STATION		

**EQUIPMENT ABBREVIATIONS**

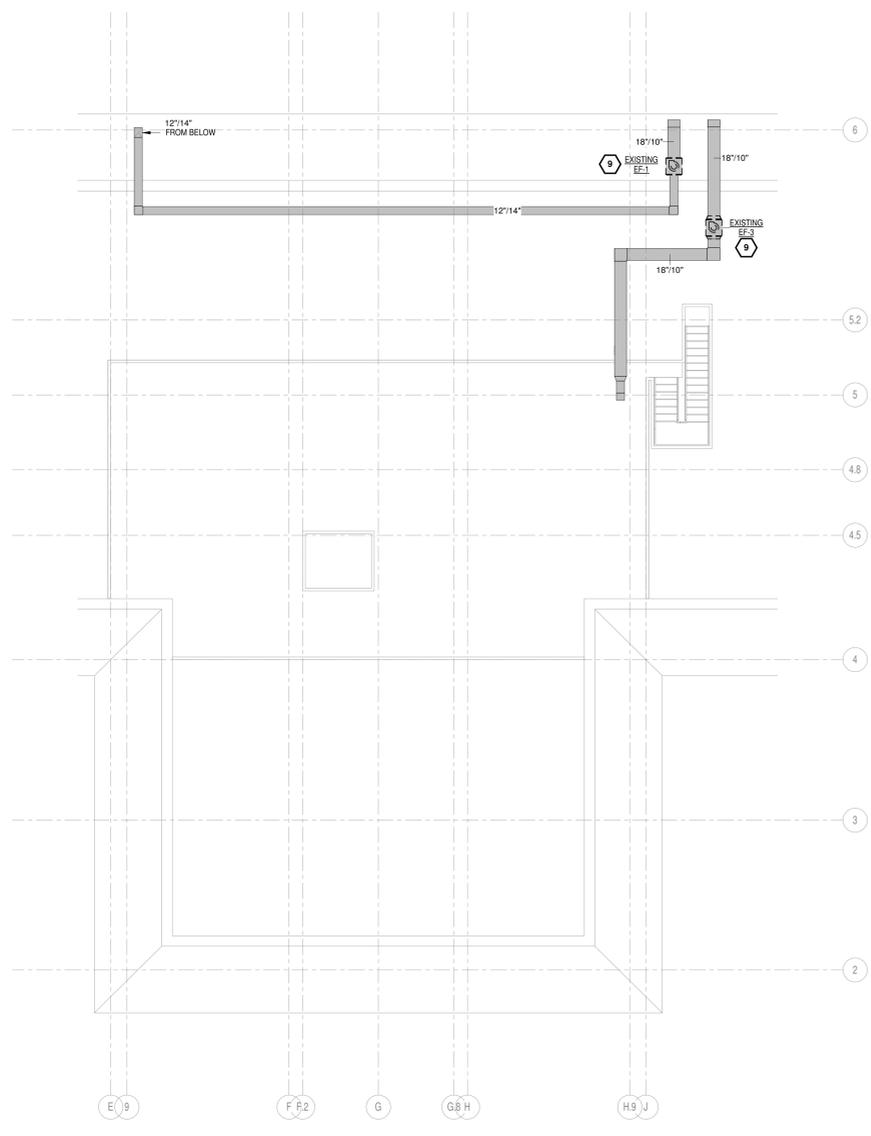
ABV	ABOVE	FCU	FAN COIL CONDENSING UNIT
AHV	AUTOMATIC AIR VALVE	FPB	FAN POWER BOX
AHU	AIR HANDLING UNIT	GRUH	GAS-FIRED UNIT HEATER
ACU	AIR CONDENSING UNIT	HC	HOT WATER HEATING COIL
ACCU	AIR COOLED CONDENSING UNIT	HPU	HEAT PUMP UNIT
AS	AIR SEPARATOR	HWP	HOT WATER PUMP
B	BOLTER	OHF	OUTSIDE AIR HOOD
BCU	BLOWER COIL UNIT	KEF	KITCHEN EXHAUST FAN
CC	COOLING COIL	KSF	KITCHEN SUPPLY FAN
CF	CHEMICAL FEEDER	L	LOUVER
CH	CHILLER	LEF	LAB EXHAUST FAN
CP	CONDENSOR PUMP	MZK	MULTI-ZONE KIT
CT	COOLING TOWER	P	PUMP
CWP	CHILLED WATER PUMP	PF	PURGE FAN
EDH	ELECTRIC DUCT HEATER	PP	PRIMARY PUMP
DC	DUST COLLECTOR	PTAC	PACKAGE TERMINAL AIR CONDITIONING
DOAS	DEDICATED OUTSIDE AIR SYSTEM	RH	RELIEF HOOD
EF	EXHAUST FAN	RHEF	RELIEF HOOD EXHAUST FAN
EH	ELECTRIC HEATER	RTU	ROOF TOP UNIT
ET	EXPANSION TANK	SDB	SINGLE DUCT BOX
F	FILTER	SF	SUPPLY FAN
FB	FILTER BOX	SP	SECONDARY PUMP
FCU	FAN COIL UNIT	SRF	SMOKE REMOVAL FAN
		ST	CHILLED WATER STORAGE TANK
		UH	UNIT HEATER
		VAV	VARIABLE AIR VOLUME BOX
		VFD	VARIABLE FREQUENCY DRIVE
		VRV	VARIABLE REFRIGERANT VOLUME

- INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK TIGHT WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILING. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT AND ELECTRICAL CABLE TRAY INSTALLATIONS. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.
- CONTRACTOR SHALL INSTALL ALL EXHAUST SYSTEMS, INCLUDING FANS AND EXHAUST DUCTS, PROVIDE COMPLETE NEW SYSTEMS AS INDICATED.
- CONTRACTOR SHALL PROVIDE ALL CEILING DIFFUSERS AS SHOWN. CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCT WITH A FLEX DUCT SECTION. CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL. EACH FLEX DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.
- CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGES. FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CALK.
- CONTRACTOR SHALL SUPPLY AND INSTALL FIRE AND/OR SMOKE DAMPERS AND ACCESS DOORS IN THE HORIZONTAL DUCTS WHERE THEY PENETRATE FIRE BARRIERS.
- ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS. CONTRACTOR SHALL REINFORCE ALL OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 6000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM EQUIPMENT FLANGES, FRAMING OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.
- ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS. REPAIRS SHALL BE COMPLETED ACCORDING TO ARCHITECTURAL SPECIFICATIONS. ALL REFINISHING SHALL BE APPROVED BY THE ARCHITECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFPA 96A, 96B, AND 96B.
- CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SPLITTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS FINAL BALANCING ONLY. CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.
- MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE. THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EACH THERMOSTAT WITH THE ROOM FINISHES AND USES. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT (DDC CONTROL) INSTALLATION.
- CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF ALL CEILING DIFFUSERS WITH LIGHTING INSTALLATIONS AND ARCHITECTURAL REFLECTED CEILING PLANS. MOVE THE DIFFUSER LOCATIONS IF REQUIRED TO AVOID OBSTRUCTIONS FROM DUCTWORK AND LIGHT FIXTURES. COORDINATE RELOCATION WITH ENGINEER.
- CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.
- ALL PIPING SHALL BE INSULATED AND JACKETED. REFER TO THE SPECIFICATIONS. CONDENSER COILS ARE TO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.
- VERIFY THE LOCATION OF ALL WALLS, PARTITIONS, DOORS, CABINETS, AND CEILING FROM ACTUAL FIELD MEASUREMENTS.

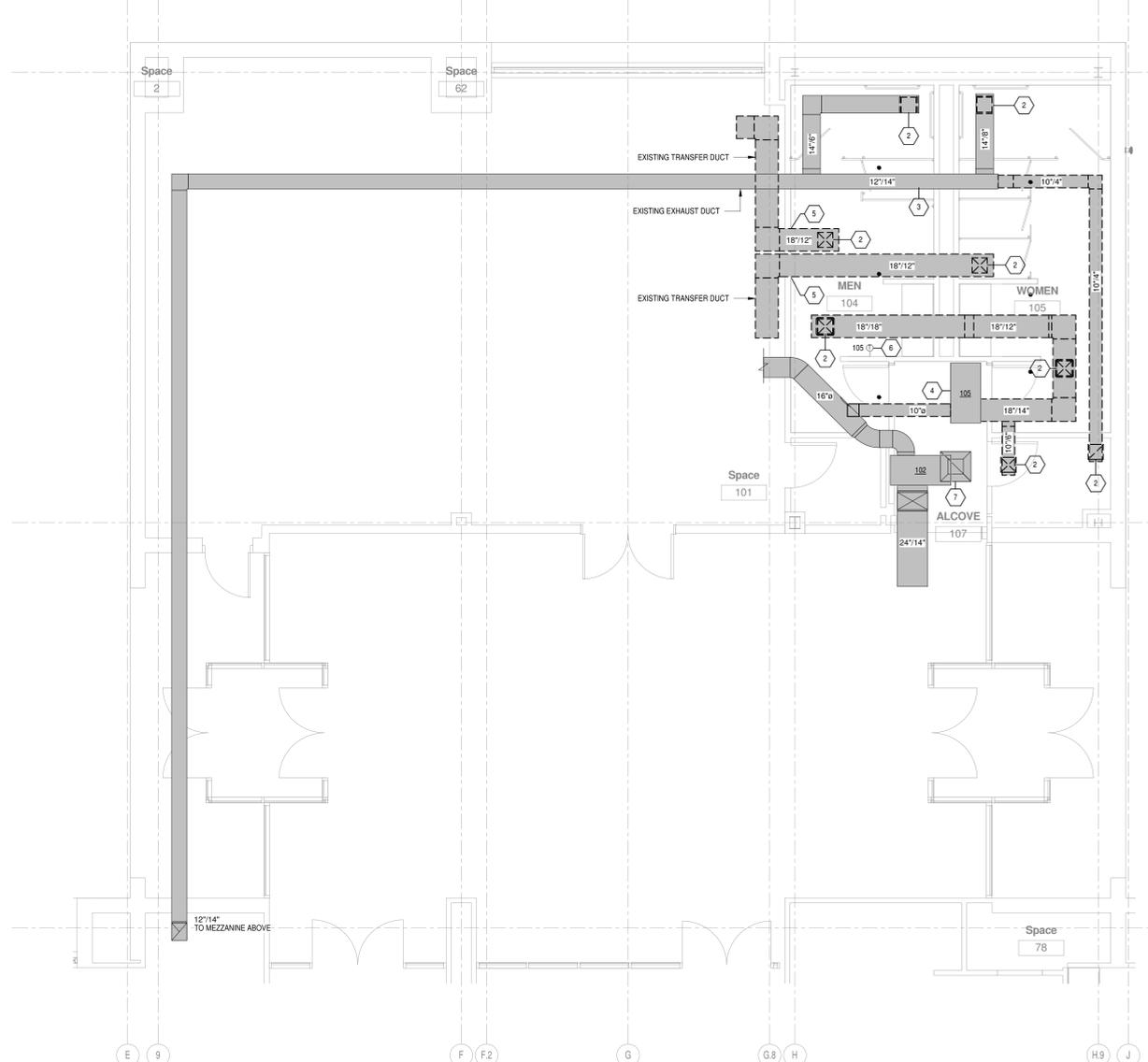
PROJECT NAME	PROJECT LOCATION	PROJECT OWNER
Description	31922	MH
Date	RT	
No.		

PROJECT NO.: 31922  
 DRAWN BY: MH  
 CHECKED BY: RT  
 SHEET TITLE:

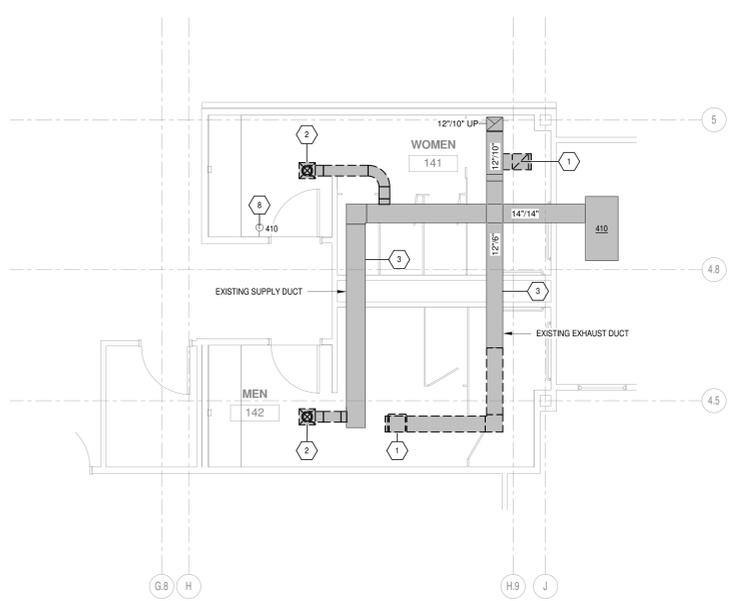
MECHANICAL GENERAL LEGEND



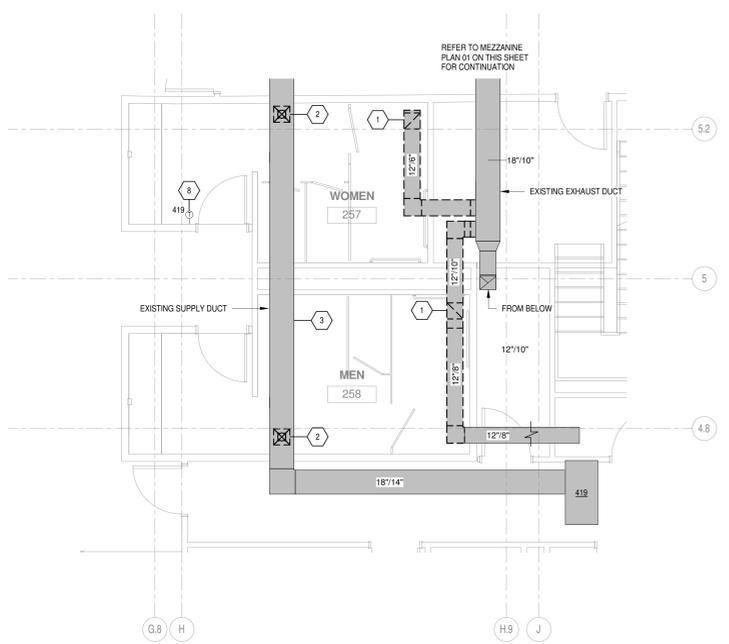
01 MECHANICAL DEMOLITION PLAN - MEZZANINE  
1/8" = 1'-0"



02 MECHANICAL DEMOLITION FIRST FLOOR HVAC RESTROOM PLAN - LOBBY  
1/4" = 1'-0"



03 MECHANICAL DEMOLITION FIRST FLOOR HVAC RESTROOM PLAN  
1/4" = 1'-0"



05 MECHANICAL DEMOLITION SECOND FLOOR HVAC RESTROOM PLAN  
1/4" = 1'-0"

**GENERAL DEMOLITION NOTES:**

- A. INFORMATION ON THE PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.
- B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS.
- C. ALL DUST PRODUCTION, SMOKE PRODUCTION AND NOISE SHALL BE SUBJECT TO REAL TIME REVIEW BY THE ARCHITECT. WORK SHALL BE SHUT DOWN DURING CRITICAL ACTIVITIES BY FORMAL REQUEST FROM THE DESIGNATED AUTHORITY OR CONTRACTING ARCHITECT. WORK IN DUSTY AREAS SHALL BE CONTROLLED WITH TEMPORARY PARTITIONS. FLAME CUTTING SHALL BE MINIMIZED TO ELIMINATE SMOKE PRODUCTION. PROVIDE FIRE EXTINGUISHERS IN THE IMMEDIATE AREA.
- D. GENERAL CONTRACTOR SHALL BE ADVISED OF ALL NEW PROPOSED ROOF OPENINGS BY ANY SUB-CONTRACTOR.
- E. ON ANY WORK SHOWN ON MECHANICAL DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.
- F. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM, EQUIPMENT FLANGES, FRAMING, OR ESCUTCHEONS AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.
- G. ALL SURFACES COVERED BY "SPRAY POLY" AND PROTECTED BY TEMPORARY PARTITIONS SHALL REMAIN PROTECTED THROUGHOUT THE PROJECT. REMOVE THE PROTECTIVE BARRIERS ONLY AFTER THE NEW EQUIPMENT PIPING AND DUCTWORK IS INSTALLED. PATCH AND MAINTAIN THE PROTECTIVE BARRIERS DURING CONSTRUCTION. COVER ALL EQUIPMENT OPENINGS WITH 4 MIL POLY AND DUCT TAPE IN PLACE.
- H. ALL NEW ROOF PENETRATIONS SHALL BE ROUTED THRU ANY EXISTING OPENING WHEREVER POSSIBLE. LARGER AND NEW OPENINGS SHALL BE KEPT TO A MINIMUM.
- I. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK.
- J. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- K. CONTRACTOR SHALL KEEP THE ENTIRE MEP DEMOLITION SITE CLEAN AT ALL TIMES.
- L. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.
- M. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.
- N. CONTRACTOR SHALL IDENTIFY ALL WATER CONNECTION LINES, NATURAL GAS LINES AND SANITARY SEWER LINES PRIOR TO COMMENCING DEMOLITION WORK.

**DEMOLITION KEY NOTES:**

1. DEMOLISH EXISTING CEILING MOUNTED EXHAUST FAN AND ASSOCIATED DUCT BRANCH. COORDINATE EXTENT OF DEMOLITION WITH NEW WORK REQUIREMENTS.
2. DEMOLISH EXISTING AIR DEVICE AND ASSOCIATED DUCT BRANCH. COORDINATE EXTENT OF DEMOLITION WITH NEW WORK REQUIREMENTS.
3. EXISTING DUCT MAIN BRANCH TO REMAIN.
4. EXISTING FAN POWERED VAV BOX, AIR LINES, AND ASSOCIATED DUCTWORK SHALL BE DEMOLISHED. GAP ASSOCIATED AIR LINES.
5. SEAL WALL PENETRATION IN ORDER TO MAINTAIN EXISTING FIRE RATING.
6. EXISTING TEMPERATURE SENSOR SHALL BE RELOCATED. FIELD VERIFY EXISTING LOCATION.
7. EXISTING AIR DEVICES SHALL BE CLEANED AND RELOCATED. REFER TO 04MH101 FOR NEW LOCATION.
8. EXISTING TEMPERATURE SENSOR SHALL REMAIN FOR RE-USE. FIELD VERIFY EXISTING LOCATION.
9. DEMOLISH EXISTING IN-LINE EXHAUST FAN. COORDINATE WITH NEW WORK REQUIREMENTS.

**LEGEND**



**KEYPLAN**



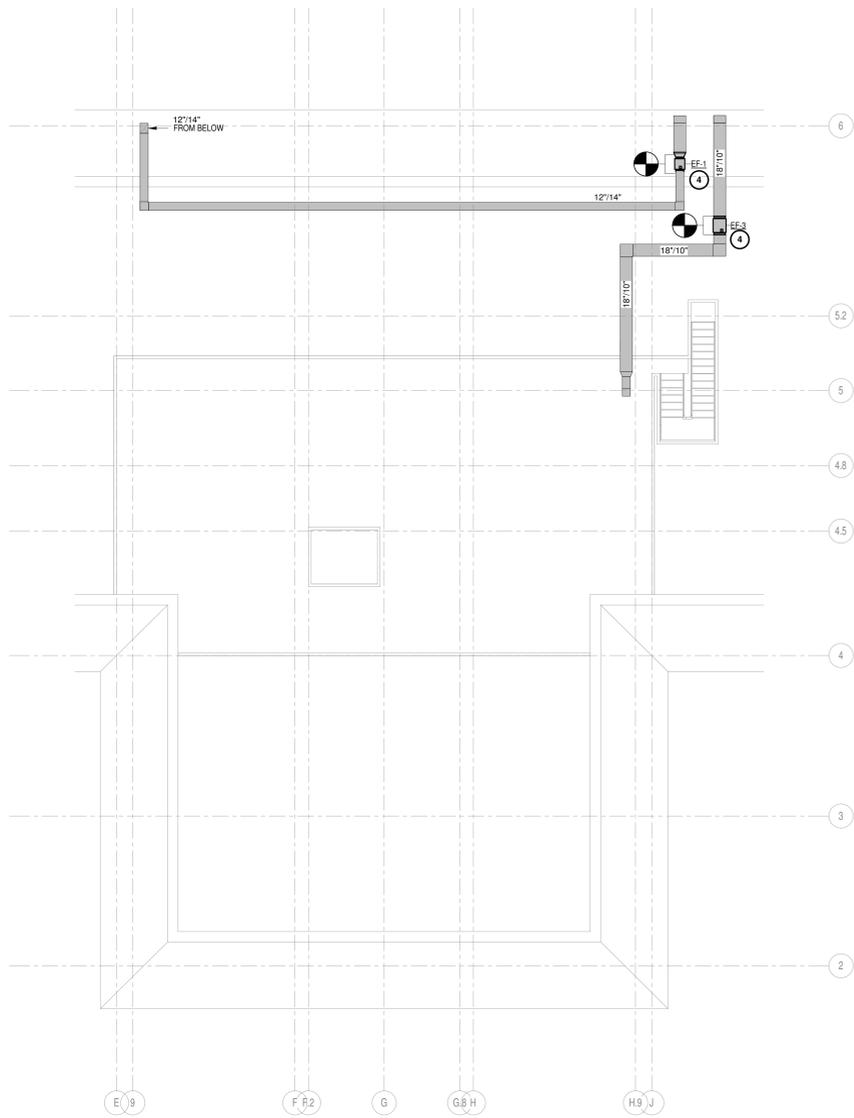
**CONSULTANTS:**  
**MEP:**  
HALF ASSOCIATES  
5000 WEST MILITARY HIGHWAY SUITE 100  
MCALLEN, TEXAS 78503  
(956) 664-2886

**Brownsville PUB Admin Bldg  
Renovations**  
FACE BROWNWOOD DR.,  
BROWNSVILLE, TX  
BROWNSVILLE PUBLIC UTILITIES BOARD

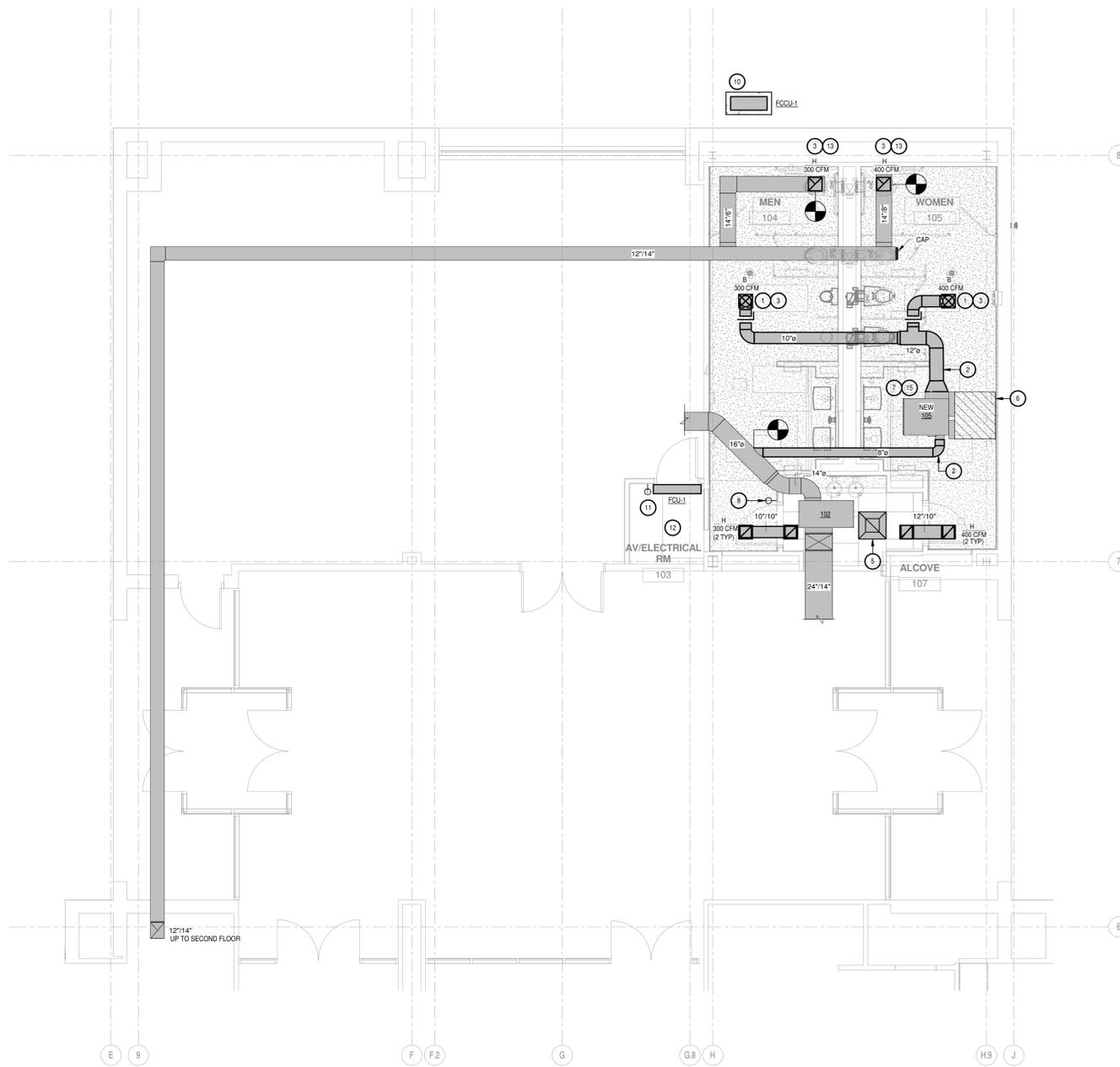
Date	Description	PROJECT NAME	PROJECT LOCATION	PROJECT OWNER
No. 1				

PROJECT NO.: 31922  
DRAWN BY: MH  
CHECKED BY: RT  
SHEET TITLE: MECHANICAL DEMOLITION PLAN

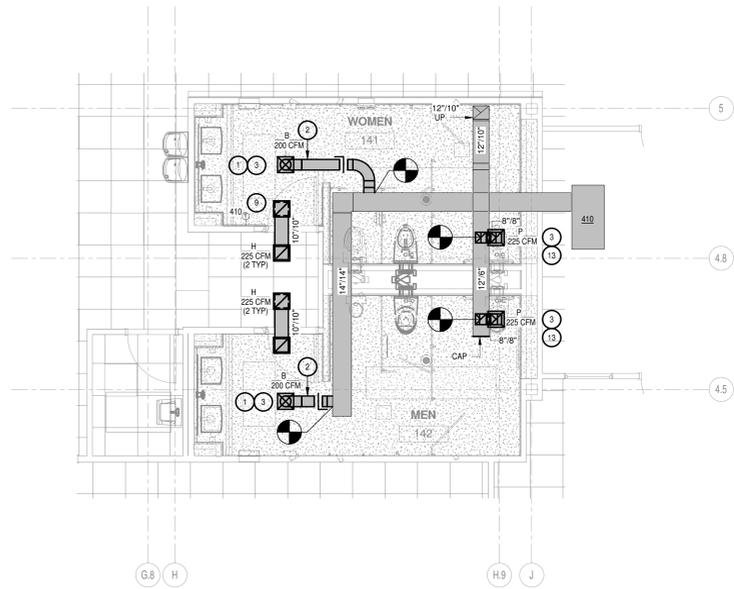
**MD101**



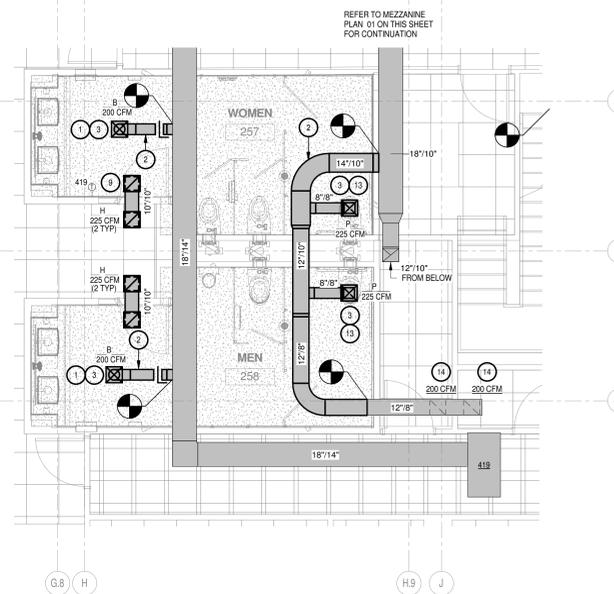
01 MECHANICAL HVAC PLAN - MEZZANINE  
1/8" = 1'-0"



02 MECHANICAL FIRST FLOOR HVAC  
RESTROOM PLAN - LOBBY  
1/4" = 1'-0"



03 MECHANICAL FIRST FLOOR HVAC  
RESTROOM PLAN  
1/4" = 1'-0"



04 MECHANICAL SECOND FLOOR HVAC  
RESTROOM PLAN  
1/4" = 1'-0"

**GENERAL NOTES:**

A. REFER TO SHEET MH01 FOR GENERAL MECHANICAL NOTES.

**KEY NOTES:**

1. PROVIDE AND INSTALL CABLE OPERATED BALANCING DAMPER EQUAL TO ROTOWEST MODEL RT-150. EXTEND CABLE TO SUPPLY AIR DEVICE AND TERMINATE.
2. INSTALL NEW SUPPLY AIR DUCTWORK AS INDICATED AND AS REQUIRED. FIELD VERIFY REQUIREMENT OF CONNECTION.
3. NEW AIR DEVICE. RE-BALANCE AS SHOWN.
4. INSTALL NEW EXHAUST FAN AND CONNECT TO EXISTING EXHAUST DUCT. FIELD VERIFY REQUIREMENT OF CONNECTION.
5. RELOCATED AIR DEVICE.
6. PROVIDE NEW ACCESS PANEL FOR MECHANICAL EQUIPMENT. PANEL SHALL BE 3-FEET X 3-FEET IN SIZE TO MEET ACCESS REQUIREMENTS.
7. NEW FAN POWERED BOX.
8. RELOCATED TEMPERATURE SENSOR.
9. EXISTING TEMPERATURE SENSOR.
10. FURNISH AND INSTALL 4 INCH HIGH CONCRETE HOUSE KEEPING PAD FOR CONDENSING UNIT. CONCRETE PAD SHALL EXCEED 4 INCHES BEYOND EVERY UNIT EDGE.
11. DDC CONTRACTOR TO PROVIDE TEMPERATURE SENSOR TO ALARM AT HIGH TEMPERATURE FOR SPLIT SYSTEM.
12. NO REFRIGERANT LINES, SPRINKLER LINES, OR PLUMBING LINES SHALL RUN IMMEDIATELY ABOVE THE COMMUNICATION RACKS.
13. PROVIDE AND INSTALL OPPOSED BLADE BALANCING DAMPER IN DUCT RISE ACCESSIBLE BY REMOVING GRILLE.
14. EXISTING AIR DEVICE. RE-BALANCE AS SHOWN.
15. ALL NEW CONTROLS AND RELATED CONDUIT, WIREMOLD, WIRING, ETC. SHALL BE PROVIDED AND INSTALLED BY DDC CONTRACTOR AND SHALL BE COMPATIBLE WITH EXISTING ENERGY MANAGEMENT SYSTEM. RE-USE EXISTING CONTROLS CONDUIT AS APPLICABLE. WHERE EXISTING CONDUIT IS NOT SUFFICIENT, CONTRACTOR SHALL PROVIDE NEW 3/4" EMT LEGRAND 700 SERIES. CONTRACTOR SHALL REFER TO DIVISION 28 SPECIFICATIONS FOR WIREMOLD AND EMT CRITERIA.

**LEGEND**

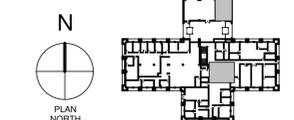


**CONSULTANTS:**

**MEP:**  
HALF ASSOCIATES  
5000 WEST MILITARY HIGHWAY SUITE 100  
MCALLEN, TEXAS 78503  
(956) 664-2886

**Brownsville PUB Admin Bldg  
Renovations**  
FACE BROWNWOOD DR.,  
BROWNSVILLE, TX  
BROWNSVILLE PUBLIC UTILITIES BOARD

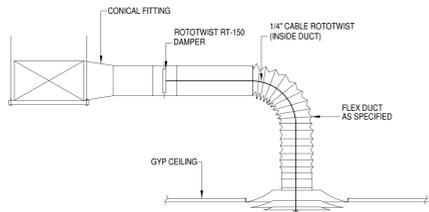
**KEYPLAN**



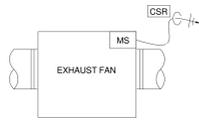
Description	PROJECT NAME	PROJECT LOCATION	PROJECT OWNER
Date			
No.			
PROJECT NO.:	31922		
DRAWN BY:	MH		
CHECKED BY:	RT		
SHEET TITLE:			

MECHANICAL PLAN

**MH101**



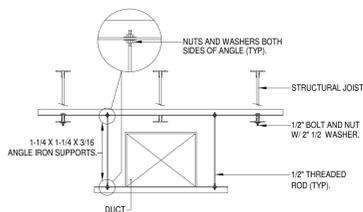
**01 REMOTE CABLE OPERATED DAMPER**  
N.T.S.



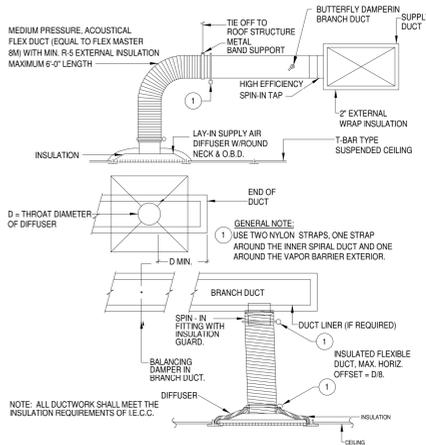
**INPUT/OUTPUT SUMMARY**

POINT NAME	AI	AO	DI	DO	SP	SENSOR TYPE	COMMENT
FAN START/STOP			X			CONTACT CLOSURE TO STARTER	
FAN STATUS			X			CURRENT SENSING RELAY	

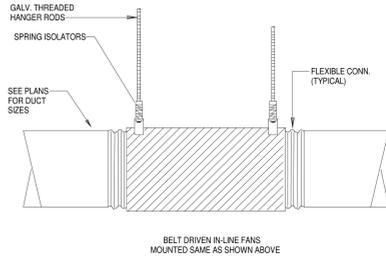
EXHAUST FAN SEQUENCE  
EF-1 AND EF-3  
1. START/STOP - THE DDC SHALL CONTROL THE EXHAUST FAN TO OPERATE ONLY DURING THE OCCUPIED MODE.



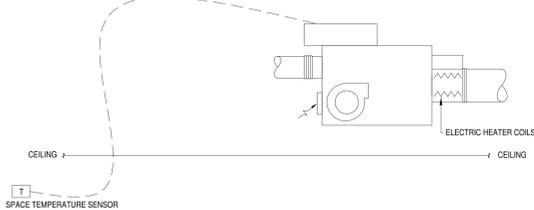
**02 DUCT HANGER**  
N.T.S.



**04 SUPPLY AIR DIFFUSER**  
N.T.S.



**06 IN-LINE FAN MOUNTING**  
N.T.S.



**FPB VAV UNIT INPUT/OUTPUT SUMMARY**

POINT NAME	AI	AO	DI	DO	SP	SENSOR TYPE	COMMENT
SUPPLY FLOW						CALCULATED SUM	
SUPPLY DAMPER		X				ELECTRONIC ACTUATOR	
SPACE TEMPERATURE		X				SPACE TEMPERATURE SENSOR	
ELECTRIC HEATER COIL				X		HEAT STRIP (1, 2 OR 3 STAGE)	
SUPPLY FAN START/STOP				X		CONTACT CLOSURE TO STARTER	
SUPPLY FAN STATUS			X			CURRENT SENSING RELAY	

**FPB SEQUENCE OF OPERATIONS**  
**START/STOP:** UPON OCCUPIED MODE INITIATION OR BY MANUAL USER INPUT, TERMINAL UNIT SHALL BE ACTIVE. WHEN THE THERMOSTAT CALLS FOR HEATING, SUPPLY FAN SHALL BE ENERGIZED DURING DURATION OF SCHEDULED OCCUPIED MODE AND TRIED OVERRIDE.  
**TEMPERATURE CONTROL:** THE SPACE TEMPERATURE SENSOR SHALL MONITOR ROOM AIR TO DETERMINE REQUIRED CONDITIONING OF AIR. TOTAL PRIMARY SUPPLY AIR FLOW SHALL RANGE FROM MINIMUM TO MAXIMUM SCHEDULED VALUES. SYSTEM SHALL MODULATE SUPPLY DAMPER TO MAINTAIN SPACE TEMPERATURE SETPOINT. FOR HEATING, SUPPLY FAN SHALL ENERGIZE, SUPPLY DAMPER SHALL MODULATE TO MINIMUM SCHEDULED PRIMARY AIR FLOW AND ELECTRIC HEATER COIL SHALL ENERGIZE IN STAGES TO MAINTAIN SPACE TEMPERATURE SETPOINT.  
**UNIT CONTROL:** THE SPACE TEMPERATURE SENSOR SHALL CONTROL ROOM TEMPERATURE AND SHALL BE LOCALLY ADJUSTABLE FOR 2°F ABOVE OR BELOW SETPOINT. SENSOR SHALL HAVE AFTER HOURS OVERRIDE TO INITIATE COOLING/HEATING SYSTEMS.  
**OCCUPIED MODE:** COOLING - 75°F. HEATING - 70°F.  
**UNOCCUPIED MODE:** MAINTAIN SET BACK TEMPERATURE. COOLING - 80°F. HEATING - 64°F.

**CONTROL DIAGRAM - FAN POWERED BOX**  
1/8" = 1'-0"

**EXHAUST FAN SCHEDULE**

MARK	CFM	SERVICE	LOCATION	TYPE	RPM	EXT SP (IN WG)	MAX BHP	HP	DRIVE	VOLTAGE/PHASE	MAX. SONES	CONTROL	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
EF-1	650	R.R. EXHAUST	MEZZANINE	INLINE	1689	0.5	0.13	1/8	DIRECT	120/1	9.3	DDC	47	GREENHECK	SG-95-VG	1,2,3,4
EF-3	1,180	R.R. EXHAUST	MEZZANINE	INLINE	1343	0.5	0.22	1/2	DIRECT	120/1	8.2	DDC	55	GREENHECK	SG-120-VG	1,2,3,4

- NOTES:  
 1. FAN SHALL HAVE FACTORY INSTALLED, PRE-WIRED INTEGRAL DISCONNECT SWITCH FROM FACTORY.  
 2. FAN SHALL BE CONTROLLED THROUGH THE DDC TO OPERATE DURING OCCUPIED PERIOD.  
 3. FAN SHALL BE PROVIDED WITH BACK DRAFT DAMPER.  
 4. FAN SHALL BE PROVIDED WITH FACTORY MOUNTED SPEED CONTROL.

GENERAL NOTES, TYPICAL OF ALL FANS:  
 A. CONTRACTOR SHALL CONFIRM DUCT PENETRATIONS, CURB DIMENSIONS, WEIGHT SHALL NOT EXCEED SCHEDULED PRODUCT.  
 B. ALL FANS INCLUDE DRIVE LOSSES. SUPPLIER SHALL PROVIDE DRIVE LOSS CALCULATIONS WITH EACH FAN DURING SUBMITTALS.  
 C. SOUND POWER LEVELS/SONES AND FAN RPM SHALL NOT EXCEED SCHEDULED VALUES.

**HVAC DUCTWORK MATERIALS SCHEDULE**

Service	Shape	Metal Type	Duct Type	Joints	W.G.	Conditioned Spaces		Unconditioned Spaces		Outdoors	Note
						Mastic & Coupling	Slips and Drives	Mastic & Coupling	Slips and Drives		
Supply Medium Pressure Concealed	Round	Galvanized	Spiral	Mastic & Coupling	3"	2" and 1.5lb/cf density	2" and 1.5lb/cf density	N/A	N/A	Rigid: 3" and 1.5lb/cf density	w/ Flexclad 400 jacket outdoors
Supply Low Pressure Concealed	Round	Galvanized	Spiral	Mastic & Coupling	1"	2" and 1.5lb/cf density	2" and 1.5lb/cf density	N/A	N/A	Rigid: 3" and 1.5lb/cf density	w/ Flexclad 400 jacket outdoors
Return Air Concealed	Round	Galvanized	Spiral	Slips and Drives	-1"	2" and 1.5lb/cf density	2" and 1.5lb/cf density	N/A	N/A	Rigid: 3" and 1.5lb/cf density	w/ Flexclad 400 jacket outdoors
General Exhaust	Round	Galvanized	Spiral	Slips and Drives	-1"	2" and 1.5lb/cf density	2" and 1.5lb/cf density	N/A	N/A	Rigid: 3" and 1.5lb/cf density	w/ Flexclad 400 jacket outdoors
	Rectangular	Galvanized	Single Wall	Slips and Drives	-3"	none	2" and 1.5lb/cf density	Rigid: 2" and 1.5lb/cf density	w/ Flexclad 400 jacket outdoors		

**GRILLE/DIFFUSER/REGISTER SCHEDULE**

MARK	SERVICE	DESCRIPTION	MANUFACTURER MODEL NO.	MAX. NO. LEVEL (1)	REMARKS
B	SUPPLY	12"X12" 24"X24" (REFER TO PLANS) MODULE SIZE, ALUMINUM, SQUARE PLAQUE, SURFACE MOUNTED DIFFUSER WITH 4-WAY THROW, ROUND NECK, FACE SIZE AS INDICATED BELOW.	PRICE ASPD	30	B12 WHITE FINISH
H	RETURN	12"X12" EGGRATE FACE, CEILING RETURN GRILLE, SURFACE MOUNTED, ALUMINUM CONSTRUCTION.	PRICE	30	B12 WHITE FINISH

Ⓟ THIS WILL DESIGNATE A STEEL FIRE RATED AIR DEVICE TYPE. AIR OUTLET DESIGNATION ON PLANS

CAPACITY	FACE CONNECTION	NECK/FLEXIBLE CONNECTION
0-150	6 X 6	6"
151-285	9 X 9	8"
286-440	12 X 12	10"
441-550	12 X 12	12"
551-750	15 X 15	14"
750-1000	18 X 18	16"

CBA - COLOR BY ARCHITECT MARK A - 200 AIR FLOW (CFM) 12 X 8 RECTANGULAR FACE SIZE (WHERE APPLICABLE)

\* - SEE ARCHITECTURAL DRAWINGS PROPER BORDER TYPES

NOTE: COORDINATE ALL AIR DEVICE TYPE WITH ARCHITECTURAL RCP.

**HIGH WALL-COOL ONLY-MINI SPLIT**

INDOOR UNIT MARK	FCU-1
INDOOR UNIT TYPE	WALL
MAX SUPPLY CFM	417
MIN SUPPLY CFM	141
ENTERING AIR (DB/WB)	80/67
TOTAL COOLING CAP. (BTUH)	9000
SENSIBLE COOLING CAP. (BTUH)	8170
VOLTAGE/PHASE	208-230/1
MCA	N/A
MAX. FUSE SIZE	N/A
MANUFACTURER	DAIKIN
MODEL NO.	FTK09NMVJU
WEIGHT (LBS)	18
CONDENSING UNIT MARK	FCU-1
VOLTAGE/PHASE	208-230/1
MCA	12.1
MAX. FUSE SIZE (AMPS)	15
AMB. AIR TEMP.	95
REFRIGERANT	R-410A
AMBIENT RANGE	(4°F) - 115°F
MANUFACTURER	DAIKIN
MODEL NO.	RK09NMVJU
WEIGHT (LBS)	55
SEER	18
MAX EQUIV. LINE LENGTH (FT)	66
MAX. VERTICAL RISE (FT)	49
NOTES	ALL

NOTES:  
 1. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.  
 2. PROVIDE INDOOR UNITS WITH MOUNTING BRACKETS IF REQUIRED.  
 3. PROVIDE CONDENSER COIL CORROSION PROTECTION.  
 4. CONTRACTOR TO PROVIDE PAD OR CURB FOR MOUNTING CONDENSING UNIT.  
 5. BOTH LIQUID AND SUCTION LINES MUST BE INSULATED (1/2" FLEXIBLE ELASTOMERIC IS ACCEPTABLE UNLESS INDICATED OTHERWISE IN SPECIFICATIONS).  
 6. SIGHT GLASSES, FILTER DRYERS, AND FIELD SUPPLIED EXPANSION VALVES ARE NOT TO BE USED.  
 7. PROVIDE INVERTER DRIVEN COMPRESSOR FOR IMPROVED HUMIDITY CONTROL.  
 8. INSTALL PER MANUFACTURERS INSTRUCTIONS AND PIPING RECOMMENDATIONS.  
 9. PROVIDE WIRELESS REMOTE CONTROLLER WITH HOLDER AND LOSS PREVENTION CHAIN.  
 10. 5 YEAR PARTS WARRANTY  
 11. PROVIDE WALL MOUNTED AND WIRED 7-DAY PROGRAMMABLE T-STAT IN LIEU OF WIRELESS REMOTE.  
 12. PROVIDE CONDENSATE PUMP FACTORY MOUNTED OR FIELD WIRED TO INDOOR UNIT (SINGLE POINT POWER).

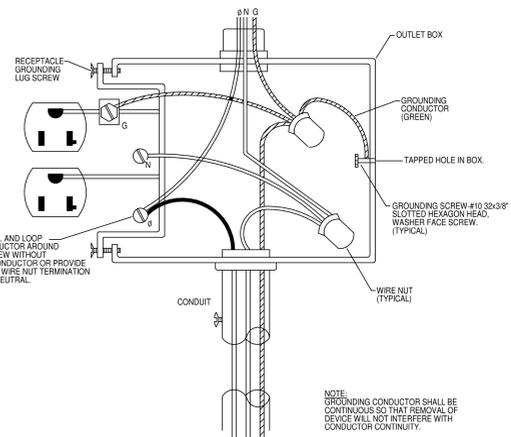
**PARALLEL FPB TERMINAL UNIT SCHEDULE**

MARK	MFR	MODEL	BOX SIZE		COOLING CFM		FAN DATA			ELECTRIC HEATER			NOTES	
			INLET (DIA)	OUTLET	MAX.	MIN.	CFM	ESP	HP	VOLTS/PH	KW	STEPS		VOLTS/PH
105	TRANE	VPEF	8" Ø	14 x 11	700	210	520	0.25	1/3	277/1	4	2	277/1	ALL

- NOTES:  
 1. CONTRACTOR SHALL VERIFY ALL SPACE REQUIREMENTS PRIOR TO INSTALLATION AND DUCT FABRICATION.  
 2. UNIT CONTROLLERS SHALL BE SUPPLIED BY CONTROLS CONTRACTOR AND FACTORY MOUNTED BY BOX MANUFACTURER.  
 3. BOX MANUFACTURER SHALL PROVIDE DDC CONTROLS TRANSFORMER.  
 4. VERIFY CONTROL BOX LOCATION (RIGHT HAND/LEFT HAND) FROM PLANS PRIOR TO ORDERING.  
 5. PROVIDE WITH UNIT MOUNTING BRACKETS.  
 6. PROVIDE WITH EC MOTOR.  
 7. PROVIDE WITH INTEGRAL FUSED DISCONNECT AND SINGLE POINT POWER.

LIGHTING FIXTURE SCHEDULE							
MANUFACTURER	MODEL NUMBER	LAMPS	VA	Voltage	TEMP.	DESCRIPTION	NOTES
A6-11	FINELITE HP-2 R-7 4" S-840 F-X-SC-VF	LED	40 VA	277	4000 K	6-11" RECESSED LED, X = VERIFY EXISTING VOLTAGE	
A7-4	FINELITE HP-2 R-7 4" S-840 F-X-SC-VF	LED	40 VA	277	4000 K	7-4" RECESSED LED, X = VERIFY EXISTING VOLTAGE	
A9-4	FINELITE HP-2 R-9 4" S-840 F-X-SC-VF	LED	30 VA	277	4000 K	9-4" RECESSED LED, X = VERIFY EXISTING VOLTAGE	
A10-6	FINELITE HP-2 R-10 6" S-840 F-X-SC-VF	LED	37 VA	277	4000 K	10-6" RECESSED LED, X = VERIFY EXISTING VOLTAGE	
B	GOTHAM EVO-40-10-6AR-MWD-LSS-MVOLT-EZ1	LED	12 VA	277	4000 K	DOWNLIGHT LED	
BE	GOTHAM EVO-40-10-6AR-MWD-LSS-MVOLT-EZ1-EL	LED	12 VA	277	4000 K	DOWNLIGHT LED, PROVIDE WITH EMERGENCY BATTERY	
C	DANALITE SL212-30FT-40K-80CR	LED	35 VA	277	4000 K	TAPE LIGHT, PROVIDE ALL NECESSARY DRIVERS AND MOUNTING HARDWARE TO PROVIDE A FULLY FUNCTIONAL LIGHT	
D	LITHONIA 2GTL-2-33L-EZ1-LP840	LED	29 VA	277	4000 K	2x2 LED	
FE	LITHONIA 2GTL-4-40L-EZ1-LP840-EL14L	LED	30 VA	277	4000 K	2x4 LED, PROVIDE WITH BATTERY PACK	

MECHANICAL EQUIPMENT CONNECTION SCHEDULE				
MARK	PANEL	CIRCUIT	NOTES	DISCONNECTING MEANS AND/OR BRANCH CIRCUIT SIZE
105	H1CN	13		30-1/2" NEMA 1 DISCONNECT SWITCH / 2#10.#10G.3/4" C
FCCU-1	L1FN	19,21		30-1/2" NEMA 3R DISCONNECT SWITCH / 2#12.#12G.3/4" C
FCCU-1	L1FN	19,21	ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT	30-1/2" NEMA 1 DISCONNECT SWITCH / 2#12.#12G.3/4" C



3 TYPICAL RECEPTACLE GROUNDING DETAIL  
N.T.S.

## ELECTRICAL GENERAL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT.	UNO (SEE NOTE 1)
	2x4' LIGHT FIXTURE HATCHING - EMERGENCY LIGHT	REFER TO ARCH.CLG. PLAN	
	2x2' LIGHT FIXTURE HATCHING - EMERGENCY LIGHT	REFER TO ARCH.CLG. PLAN	
	LINEAR LIGHT HATCHING - EMERGENCY LIGHT	REFER TO ARCH.CLG. PLAN	
	DOWNLIGHT HATCHING - EMERGENCY LIGHT	REFER TO ARCH.CLG. PLAN	
	TRACK LIGHT WITH HEADS	REFER TO ARCH.CLG. PLAN	
	WALLPACK	REFER TO ARCH.CLG. PLAN	
	EMERGENCY FIXTURE	REFER TO ARCH.CLG. PLAN	
	POLE MOUNTED FIXTURE	REFER TO ARCH.CLG. PLAN	
	EXIT LIGHT, CEILING OR WALL MOUNTED - SHADING INDICATING SINGLE OR DOUBLE FACE, DIRECTIONAL ARROWS AS INDICATED	REFER TO ARCH.CLG. PLAN	
	SINGLE POLE SWITCH	48" AFF	
	WALL MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH #MSD	48" AFF	
	CEILING MOUNT OCCUPANCY SENSOR(DUAL TECHNOLOGY CEILING SENSOR) BASIS OF DESIGN: SENSOR SWITCH #CM-PDT-9-R	-	
	DUPLEX RECEPTACLE - 20A/125V/1P/3W/G NEMA 5-20R	15" AFF	
	DUPLEX GFI WEATHER PROOF RECEPTACLE - 20A/125V/1P/3W/G NEMA 5-20R	15" AFF	
	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED TYPICAL OF ALL	-	

## GENERAL ABREVIATIONS

ABS	ABOVE BACK SPLASH	EC	EMPTY CONDUIT	IC	INTERRUPTING CAPACITY	EP	ELECTRICAL PRIMARY	SP	SPARE	WP/WU	WEATHERPROOF WITH WHILE-IN-USE COVER
AFF	ABOVE FINISHED FLOOR	EX	EXISTING	IG	ISOLATED GROUND	NL	NIGHT LIGHT	ST (S.T.)	SHUNT TRIP	XMR	TRANSFORMER
ARS	AREA OF RESCUE SYSTEM	F	FUSE	MTD	MOUNT OR MOUNTED	NO (N.O.)	NORMALLY OPEN	SW	SWITCH	UNO	UNLESS NOTED OTHERWISE
BFC	BELOW FINISHED CEILING	FSD	FIRE & SMOKE DAMPER	NC (N.C.)	NORMALLY CLOSED	RCPT(S)	RECEPTACLE(S)	UF	UNDERFLOOR		
C	CONDUIT	G	GROUND (EQUIPMENT)	NF	NONFUSED	PNL	PANEL	UG	UNDERGROUND		
CB	CIRCUIT BREAKER	GP	GENERATOR ANNUNCIATOR PANEL	NIC	NOT IN CONTRACT	SD	SMOKE DAMPER	WG	WIRE GUARD		
CLG	CEILING	GFI	GROUND FAULT INTERRUPTER	TYP	TYPICAL	SO (S.O.)	SPACE ONLY	WP	WEATHERPROOF		

NOTES:  
1. 48" AFF INDICATES TO TOP OF DEVICE.  
15" AFF INDICATES TO BOTTOM OF DEVICE.  
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

## ELECTRICAL GENERAL NOTES

- ELECTRICAL DEMOLITION NOTES**
- A. INFORMATION ON THE PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.
- B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, CONTRACTOR SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR'S RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REMOVE SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS.
- C. ALL DUST PRODUCTION, SMOKE PRODUCTION AND NOISE SHALL BE SUBJECT TO REAL TIME REVIEW BY THE ARCHITECT. WORK SHALL BE SHUT DOWN DURING CRITICAL ACTIVITIES BY FORMAL REQUEST FROM THE DESIGNATED AUTHORITY OR CONTRACTING ARCHITECT. WORK IN DUSTY AREAS SHALL BE CONTROLLED WITH TEMPORARY PARTITIONS. FLAME CUTTING SHALL BE MINIMIZED TO ELIMINATE SMOKE PRODUCTION. PROVIDE FIRE EXTINGUISHERS IN THE IMMEDIATE AREA.
- D. ON ANY WORK SHOWN ON ELECTRICAL DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS OR WITH ARCHITECT APPROVED PATCHING MATERIALS. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING, OR ESCALATOR HANDS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.
- F. ALL SURFACES COVERED BY "SPRAY POLY" AND PROTECTED BY TEMPORARY PARTITIONS SHALL REMAIN PROTECTED THROUGHOUT THE PROJECT. REMOVE THE PROTECTIVE BARRIERS ONLY AFTER THE NEW DEVICES, JUNCTION BOXES AND CONDUITS INSTALLED. PATCH AND MAINTAIN THE PROTECTIVE BARRIERS DURING CONSTRUCTION. COVER ALL EQUIPMENT OPENINGS WITH 1/4" POLY AND DUCT TAPE IN PLACE.
- G. CONTRACTOR SHALL KEEP THE ENTIRE MEP DEMOLITION SITE CLEAN AT ALL TIMES.
- H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.
- I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.
- ELECTRICAL NOTES**
- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT LOCATION OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED ON THE RCP.
- B. CONNECT EXISTING EMERGENCY LIGHTS AND EMERGENCY BALLASTS IN EMERGENCY LIGHTS IN EACH SPACE TO UNSWITCHED HOT LEG OF LOCAL LIGHTING CIRCUIT.
- C. COORDINATE PLACEMENT OF FIXTURES WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.
- D. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWN THE COST OF ALL CONTROL PANELS, DEVICES, NETWORK CABLES AND LOW OR LINE VOLTAGE WIRING FOR A COMPLETE LIGHTING CONTROL SYSTEM AS SPECIFIED. REFER TO MANUFACTURERS WIRING DIAGRAMS AND INSTALLATION MANUALS PRIOR TO BID.
- E. CONTROL SYSTEM FOR LIGHTING SHALL MEET IEC 2015.
- F. ALL CONTROL AND POWER WIRING FOR LIGHTING CONTROL SYSTEM SHALL BE IN CONDUIT.
- G. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLS.
- H. ALL CABLES ABOVE CEILING SHALL BE PLENUM RATED. PROVIDE CONDUIT AS SPECIFIED.
- I. EACH CIRCUIT SHALL BE PROVIDED WITH #12 EQUIPMENT GROUNDING MINIMUM OR AS REQUIRED BY NEC 2017 FROM PANELBOARD GROUND BUS TO ELECTRICAL DEVICES AND FIXTURES SUCH AS LUMINAIRES, RECEPTACLES, J-BOXES, EXHAUST FANS, ETC.
- J. JUNCTION BOXES THAT ARE EMPTY AS A RESULT OF THE RENOVATIONS SHALL BE COVERED WITH STAINLESS STEEL DECORA COVERS.



CONSULTANTS:

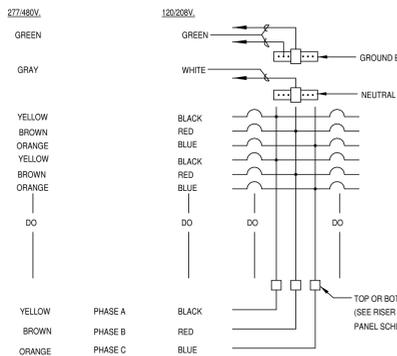
MEP:  
HALF ASSOCIATES  
5000 WEST MILITARY HIGHWAY SUITE 100  
MCALLEN, TEXAS 78901  
(800) 664-2886

**Brownsville PUB Admin Bldg Renovations**  
1405 BROWNWOOD DR., BROWNSVILLE, TX  
BROWNSVILLE PUBLIC UTILITIES BOARD

PROJECT NAME	PROJECT LOCATION	PROJECT OWNER
Brownsville PUB Admin Bldg Renovations	1405 Brownwood Dr., Brownsville, TX	Brownsville Public Utilities Board

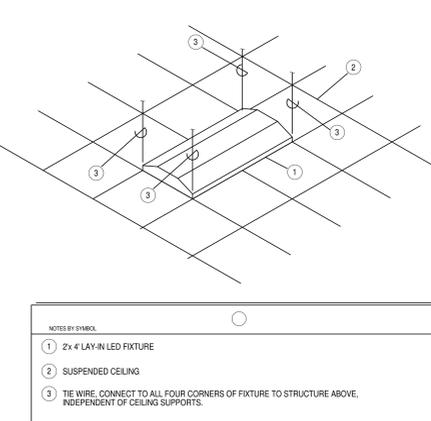
ELECTRICAL LEGEND

EL001



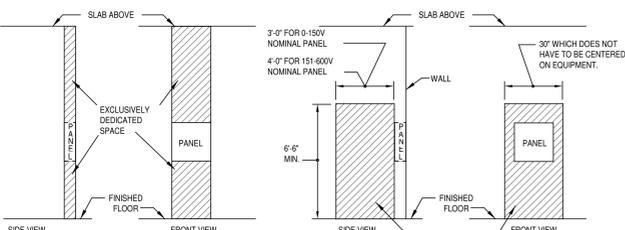
5 TYPICAL PANEL COLOR CODE DETAIL  
N.T.S.

2 GFCI RECEPTACLE - WIRING DIAGRAM  
N.T.S.



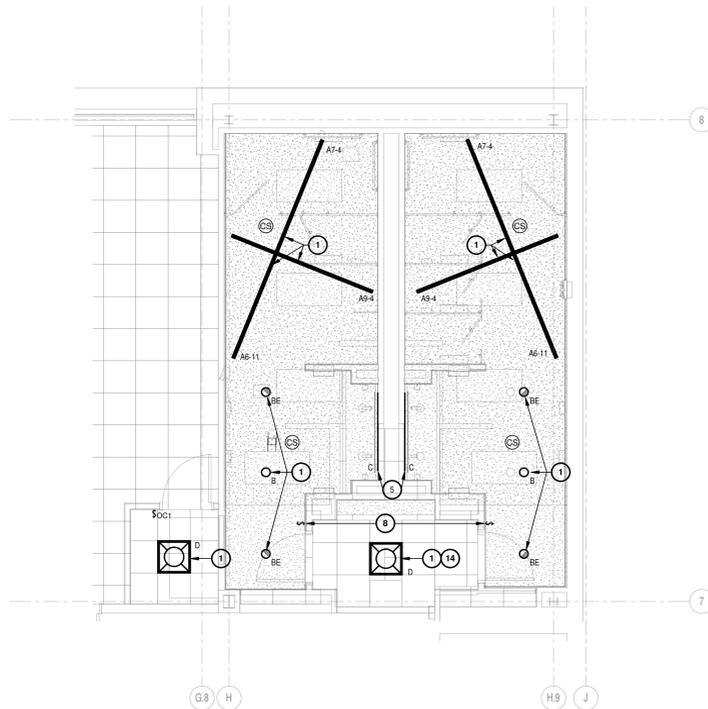
1 TYPICAL LAY-IN FIXTURE SUPPORT  
N.T.S.

4 TYPICAL PANELBOARD REQUIRED CLEARANCE  
N.T.S.

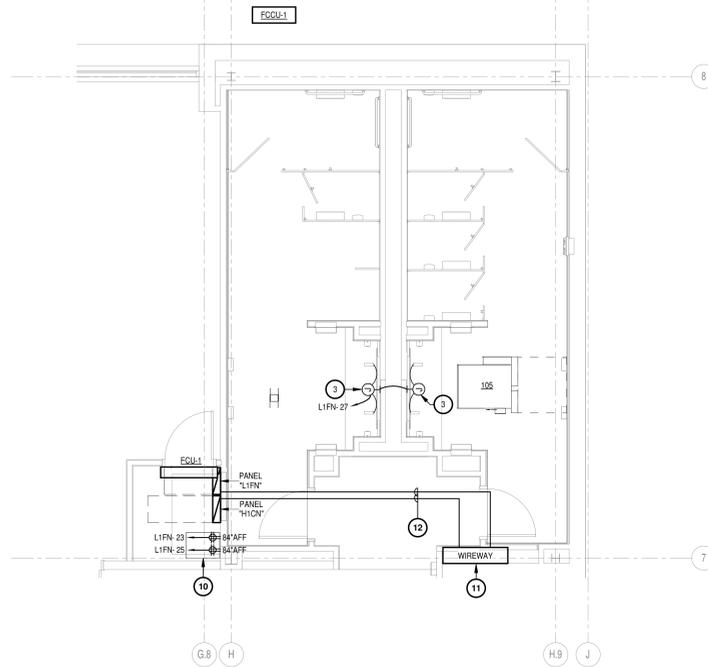


4

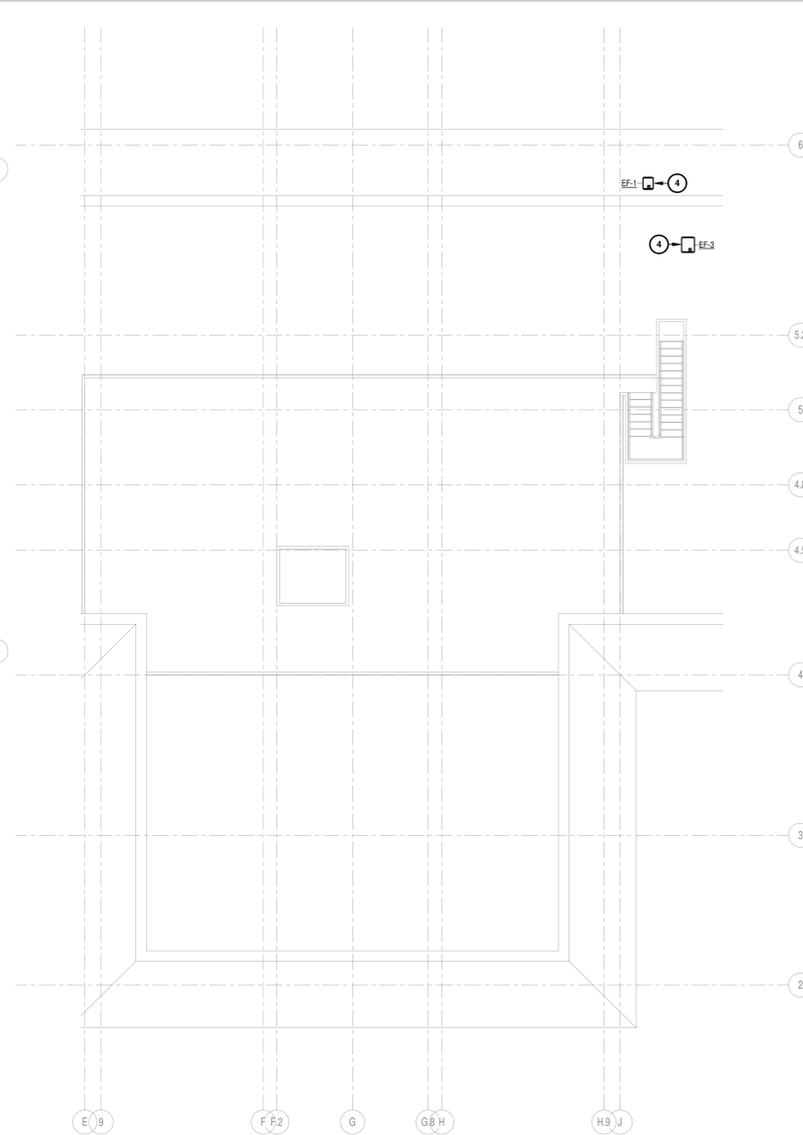




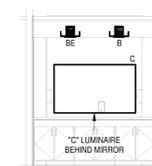
**01** ELECTRICAL LIGHTING FIRST FLOOR  
RESTROOM PLAN - LOBBY  
1/4" = 1'-0"



**04** ELECTRICAL POWER FIRST FLOOR  
RESTROOM PLAN - LOBBY  
1/4" = 1'-0"



**07** ELECTRICAL POWER PLAN -  
MEZZANINE  
1/8" = 1'-0"



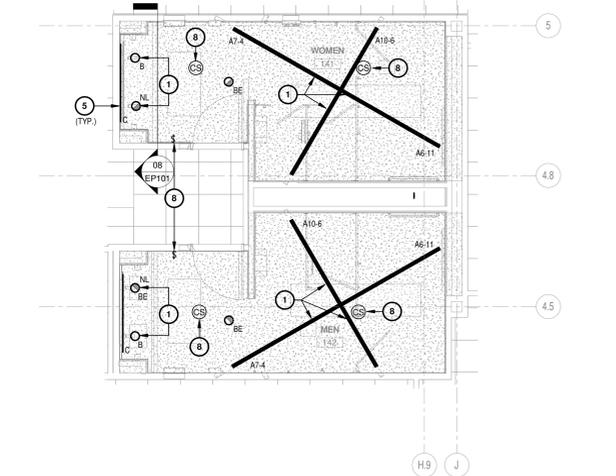
**08** TYPICAL TYPE "C" LUMINAIRE  
LOCATION  
1/4" = 1'-0"

**GENERAL NOTES:**

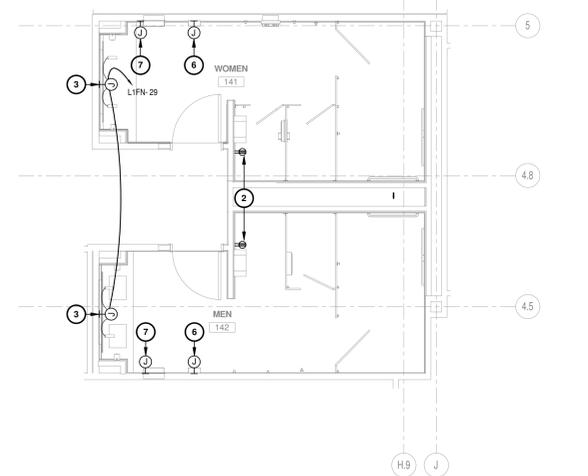
A. REFER TO SHEET ELO01 FOR GENERAL NOTES.

**KEY NOTES:**

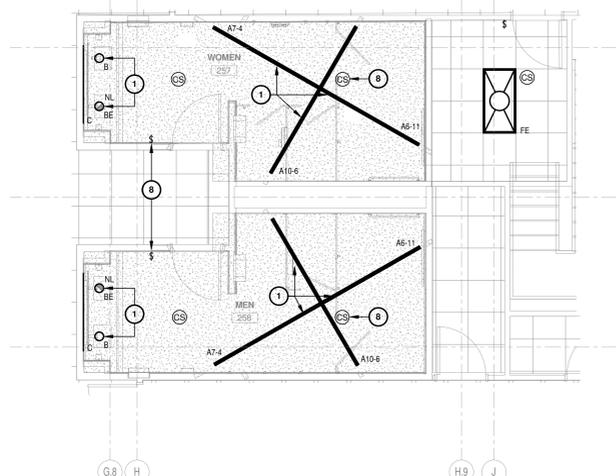
1. CONNECT NEW LUMINAIRES TO EXISTING LIGHTING CIRCUIT.
2. GFCI RECEPTACLE FOR AIR PURIFIER. PROVIDE DEDICATED CIRCUIT FROM DEMOLISHED RECEPTACLES (REFER TO KEYNOTE 5, ED101), OR CIRCUIT TO SPARE BREAKER IN PANEL L1FN. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
3. FURNISH AND INSTALL A JUNCTION BOX ACCESSIBLE ABOVE CEILING FOR ELECTRICAL SERVICE TO AUTOMATIC PLUMBING FIXTURE TRANSFORMER. FINAL CONNECTIONS TO TRANSFORMER AND PLUMBING FIXTURE SENSORS BY ELECTRICAL CONTRACTOR.
4. CONNECT NEW EXHAUST FAN TO EXISTING EXHAUST FAN CIRCUIT.
5. TYPICAL FOR LUMINAIRE "C" FIXTURE. MOUNT BEHIND MIRROR. CIRCUIT TO EXISTING LIGHTING CIRCUIT. PROVIDE WITH ALL NECESSARY DRIVERS AND MOUNTING HARDWARE TO PROVIDE A FULLY FUNCTIONAL LIGHT FIXTURE.
6. EXTEND CIRCUIT FROM DEMOLISHED HAND DRYER TO NEW HAND DRYER.
7. EXTEND DEMOLISHED RECEPTACLE CIRCUIT, TO PAPER TOWEL DISPENSOR. PROVIDE J-BOX FOR FINAL TERMINATIONS.
8. CIRCUIT OCCUPANCY SENSORS AHEAD OF WALL SWITCH.
9. NEW LUMINAIRE SHALL BE CONTROLLED BY EXISTING LIGHT SWITCH WIRING DEVICE.
10. RELOCATED AV SERVER RACK. COORDINATE FINAL RECEPTACLE LOCATIONS WITH OWNER.
11. FURNISH AND INSTALL NEMA 1 WIREWAY ABOVE CEILING AT ELECTRICAL PANEL LOCATION TO INTERCEPT CONDUITS ENTERING PANELS. PROVIDE TERMINAL BLOCKS TO EXTEND BRANCH CIRCUITS AND PANEL FEEDER FROM EXISTING PANEL TO NEW PANEL. MINIMUM SIZE OF 12"X12"X60"
12. EXTEND BRANCH CIRCUITS AND FEEDERS FROM WIREWAY TERMINAL BLOCKS TO NEW PANEL LOCATION. EXTENDED CONDUITS ARE REPRESENTED BY ONE LINE FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL FIELD COORDINATE CONDUIT INSTALLATION ABOVE CEILING WITH PRE-EXISTING SYSTEMS.



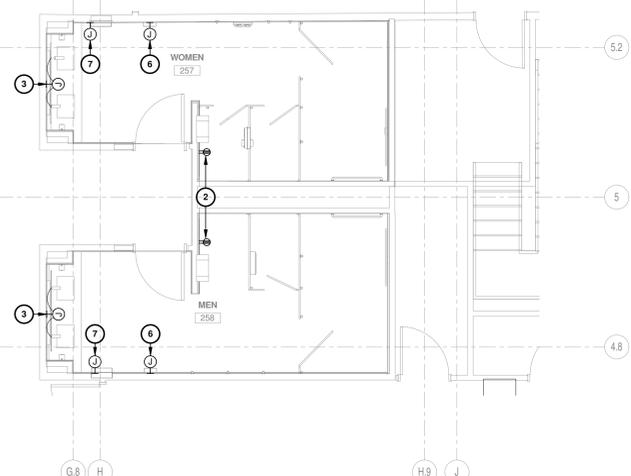
**02** ELECTRICAL LIGHTING FIRST FLOOR  
RESTROOM PLAN  
1/4" = 1'-0"



**05** ELECTRICAL POWER FIRST FLOOR  
RESTROOM PLAN  
1/4" = 1'-0"



**03** ELECTRICAL LIGHTING SECOND FLOOR  
RESTROOM PLAN  
1/4" = 1'-0"



**06** ELECTRICAL POWER SECOND FLOOR  
RESTROOM PLAN  
1/4" = 1'-0"

**KEYPLAN**



**CONSULTANTS:**

**MEP:**  
HALF ASSOCIATES  
5000 WEST MILITARY HIGHWAY SUITE 100  
MCALLEN, TEXAS 78503  
(956) 664-2886

PROJECT NAME	PROJECT LOCATION	PROJECT OWNER

PROJECT NO.: 31922  
DRAWN BY: GC  
CHECKED BY: GB  
SHEET TITLE: ELECTRICAL PLAN



**PLUMBING GENERAL  
DEMOLITION NOTES:**

- THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND WORK SHALL BE AT CONTRACTORS EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS.
- ALL DUST PRODUCTION, SMOKE PRODUCTION AND NOISE SHALL BE SUBJECT TO REAL TIME REVIEW BY THE ARCHITECT. WORK SHALL BE SHUT DOWN DURING CRITICAL ACTIVITIES BY FORMAL REQUEST FROM THE DESIGNATED AUTHORITY OR CONTRACTING ARCHITECT. WORK IN DUSTY AREAS SHALL BE CONTROLLED WITH TEMPORARY PARTITIONS. FLAME CUTTING SHALL BE MINIMIZED TO ELIMINATE SMOKE PRODUCTION. PROVIDE FIRE EXTINGUISHERS IN THE IMMEDIATE AREA.
- GENERAL CONTRACTOR SHALL BE ADVISED OF ALL NEW PROPOSED ROOF OPENINGS.
- ON ANY WORK SHOWN ON MECHANICAL DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.
- ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER OF REINFORCING CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 80% PORTLAND CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING, OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.
- ALL SURFACES COVERED BY "SPRAY POLY" AND PROTECTED BY TEMPORARY PARTITIONS SHALL REMAIN PROTECTED THROUGHOUT THE PROJECT. REMOVE THE PROTECTIVE BARRIERS ONLY AFTER THE NEW EQUIPMENT PIPING AND DUCTWORK IS INSTALLED. PATCH AND MAINTAIN THE PROTECTIVE BARRIERS DURING CONSTRUCTION. COVER ALL EQUIPMENT OPENINGS WITH 4 MIL POLY AND DUCT TAPE IN PLACE.
- CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR SHALL KEEP THE ENTIRE MEP DEMOLITION SITE CLEAN AT ALL TIMES.
- CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.
- COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.
- CONTRACTOR SHALL IDENTIFY ALL UTILITY LINES PRIOR TO COMMENCING DEMOLITION WORK. SITE VISIT IS MANDATORY. PRIOR TO BIDDING.
- THE OWNER SHALL RETAIN THE RIGHT OF FIRST REFUSAL ON ALL REMOVED EQUIPMENT. IF OWNER ARCHITECT ELECTS TO KEEP ANY REMOVED EQUIPMENT, IT SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR.

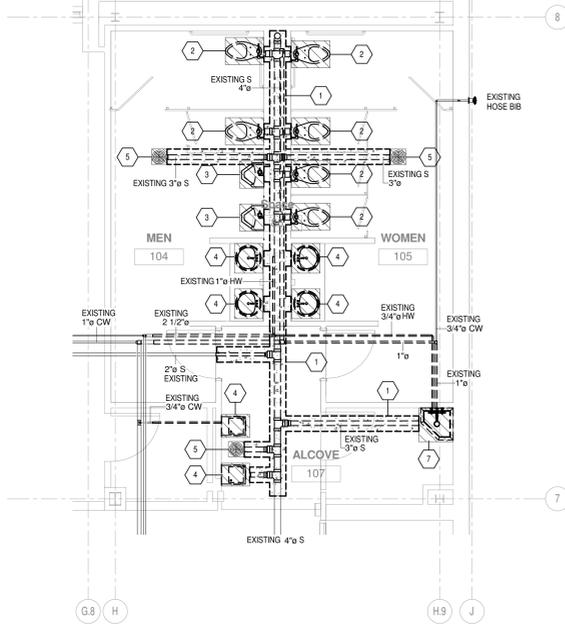


300 S. 8th Street,  
McAllen, TX 78501  
T 956-661-0400  
F 956-661-0401  
eroarchitects.com

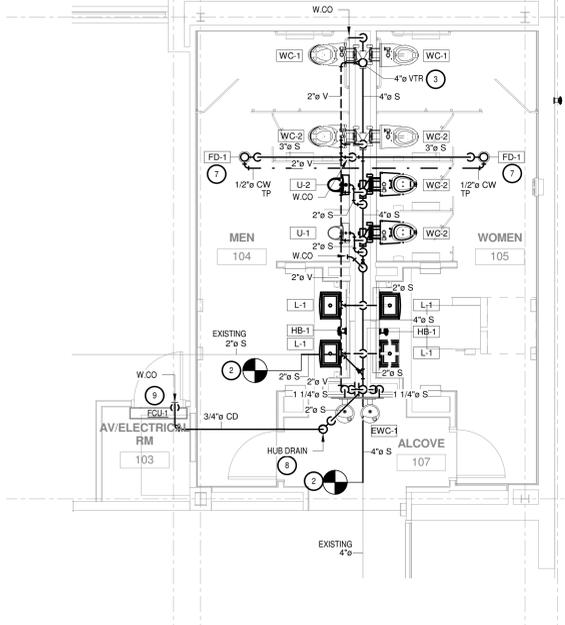


**CONSULTANTS:**

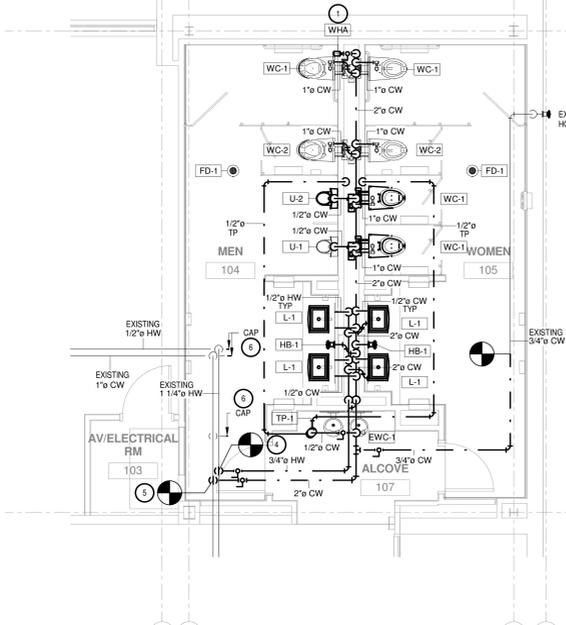
**MEP:**  
HALF ASSOCIATES  
5000 WEST MILITARY HIGHWAY SUITE 100  
MCALLEN, TEXAS 78503  
(956) 664-2828



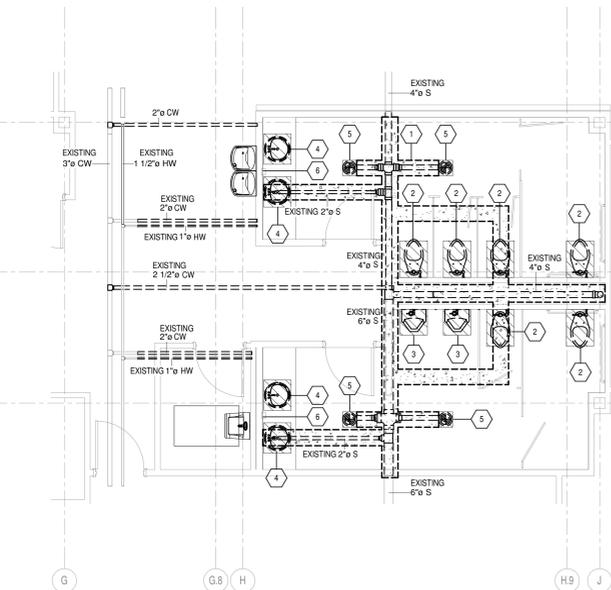
**01 PLUMBING DEMOLITION PLAN - FIRST FLOOR RESTROOM LOBBY**  
1/4" = 1'-0"



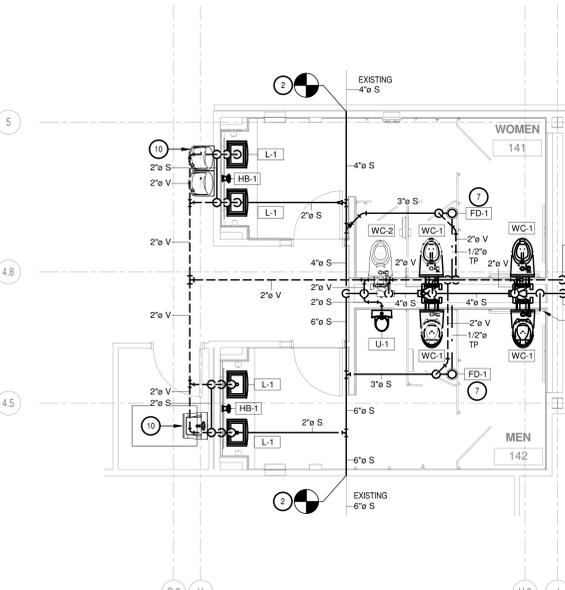
**02 PLUMBING SANITARY SEWER FIRST FLOOR RESTROOM PLAN - LOBBY**  
1/4" = 1'-0"



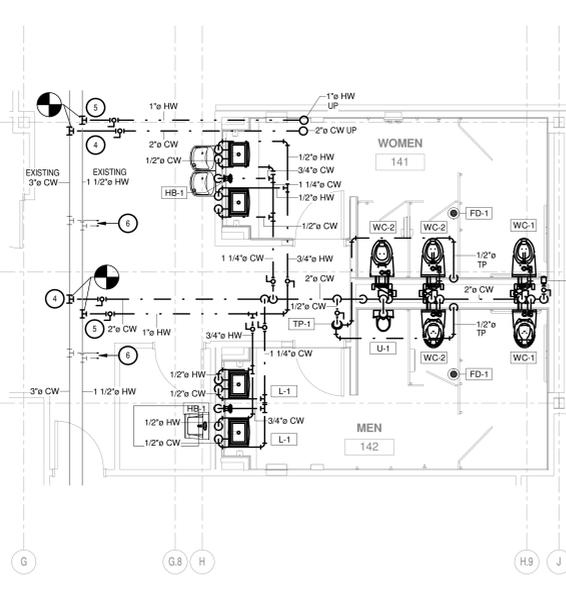
**03 PLUMBING DOMESTIC WATER FIRST FLOOR RESTROOM PLAN - LOBBY**  
1/4" = 1'-0"



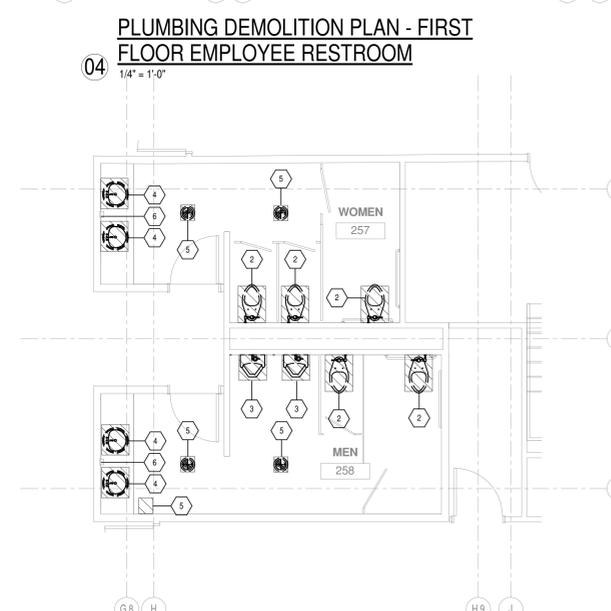
**04 PLUMBING DEMOLITION PLAN - FIRST FLOOR EMPLOYEE RESTROOM**  
1/4" = 1'-0"



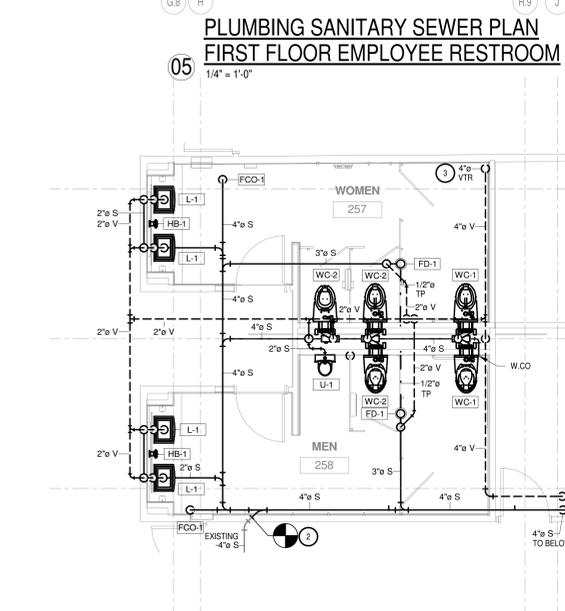
**05 PLUMBING SANITARY SEWER PLAN FIRST FLOOR EMPLOYEE RESTROOM**  
1/4" = 1'-0"



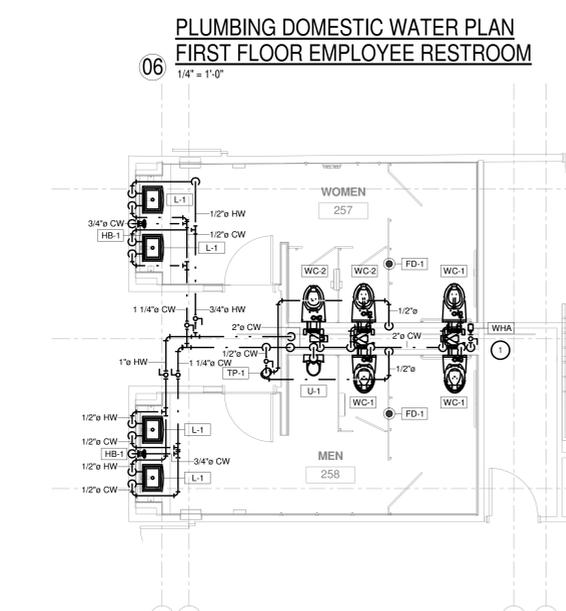
**06 PLUMBING DOMESTIC WATER PLAN FIRST FLOOR EMPLOYEE RESTROOM**  
1/4" = 1'-0"



**07 PLUMBING DEMOLITION PLAN - SECOND FLOOR EMPLOYEE RESTROOM**  
1/4" = 1'-0"



**08 PLUMBING SANITARY SEWER PLAN SECOND FLOOR EMPLOYEE RESTROOM**  
1/4" = 1'-0"



**09 PLUMBING DOMESTIC WATER PLAN SECOND FLOOR EMPLOYEE RESTROOM**  
1/4" = 1'-0"

**LEGEND**

- NEW PLUMBING
- EXISTING PLUMBING TO REMAIN
- EXISTING PLUMBING TO BE DEMOLISHED

**DEMOLITION KEY NOTES:**

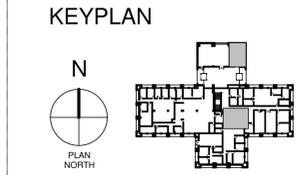
- SAW-CUT FINISH FLOOR TO PROVIDE NEW ROUGH-IN FOR NEW PLUMBING FIXTURES. REFER TO PLUMBING PLAN FOR NEW PLUMBING FIXTURE REQUIREMENTS. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS REQUIRED BY ARCHITECTURAL REQUIREMENTS.
- DEMOLISH EXISTING WATER CLOSET COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL FLANGES. CAP OFF REMAINING PLUMBING IN ATTIC OR UNDER FINISH FLOOR ELEVATION. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS REQUIRED TO MATCH EXISTING ADJACENT SURFACES.
- DEMOLISH EXISTING URINAL COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL CARRIER SYSTEMS. CAP OFF REMAINING PLUMBING LINES IN ATTIC OR UNDER FINISH FLOOR ELEVATION. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS REQUIRED TO MATCH EXISTING ADJACENT SURFACES.
- DEMOLISH EXISTING LAVATORY COMPLETE. DISCONNECT AND REMOVE WATER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL CARRIER SYSTEMS. CAP OFF REMAINING PLUMBING LINES IN ATTIC OR UNDER FINISH FLOOR ELEVATION. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS REQUIRED TO MATCH EXISTING ADJACENT SURFACES.
- DEMOLISH EXISTING TOILET SINK COMPLETE. DISCONNECT AND REMOVE TRAP PRIMER, VENT AND SANITARY SEWER LINES. NO VALVES OR LEAKING JOINTS SHALL REMAIN.
- DEMOLISH EXISTING HOSE BIB COMPLETE. DISCONNECT AND REMOVE WATER. NO VALVES OR LEAKING JOINTS SHALL REMAIN. REMOVE ALL FLANGES. CAP OFF REMAINING PLUMBING LINES IN ATTIC OR UNDER FINISH FLOOR ELEVATION. PATCH AND REPAIR WALL, FLOOR, CEILING, BASE FINISHES AS REQUIRED TO MATCH EXISTING ADJACENT SURFACES.
- DEMOLISH EXISTING MOP SINK.

**GENERAL NOTES:**

- REFER TO SHEET PL001 FOR GENERAL PLUMBING NOTES.

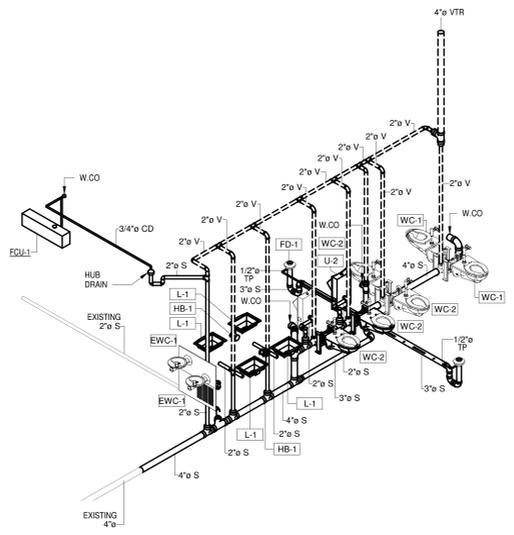
**KEY NOTES:**

- PROVIDE WATER HAMMER ARRESTOR WITH SHUT-OFF VALVE. PROVIDE 12" X 12" MINIMUM GAUGE STEEL ACCESS PANEL WITH LOCKABLE KEYPAD DOOR. PRIME COATED WITH RUST INHIBITIVE ELECTROSTATIC POWDER. BAKED GREY ENAMEL AND SHALL BE PAINTED TO MATCH SURROUNDING AREAS. COORDINATE LOCATION TO AVOID CONFLICT WITH GRAB BARS.
- CONNECT TO EXISTING SANITARY SEWER.
- CONNECT TO EXISTING VENT THRU ROOF.
- CONNECT EXISTING DOMESTIC COLD WATER LINE.
- CONNECT TO EXISTING HOT WATER LINE.
- CAP EXISTING WATER LINE. NO LEAKING JOINTS SHALL REMAIN.
- FLOOR DRAIN SHALL BE PRIMED FROM TRAP PRIMER VALVE ABOVE CEILING. REFER TO DOMESTIC WATER PLAN FOR TRAP PRIMER LOCATION. REFER TO PLUMBING DETAILS FOR REQUIREMENTS.
- PROVIDE AND INSTALL PRO-SET TRAP GUARDS SYSTEM ON HUB DRAINS.
- REMOVE AND INSTALL INSULATED COPPER CONDENSATE DRAIN LINE IN ATTIC SPACE. PROVIDE PIPE HANGER SUPPORTS MAXIMUM 5' O.C. SPACING. SLOPE PIPING 1/8" PER FOOT. ROUTE AND DRAIN INDIRECTLY TO HUB DRAIN ABOVE CEILING.
- CONNECT EXISTING PLUMBING FIXTURES TO NEW SANITARY SEWER, VENT, AND WATER PIPING.

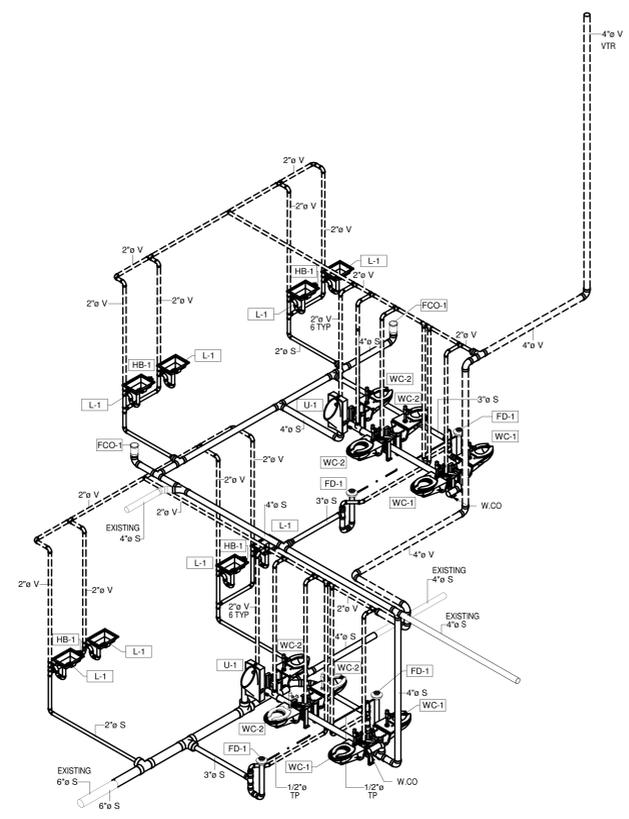


**Brownsville PUB Admin Bldg  
Renovations**  
145 BROWNWOOD DR.,  
BROWNSVILLE, TX  
BROWNSVILLE PUBLIC UTILITIES BOARD

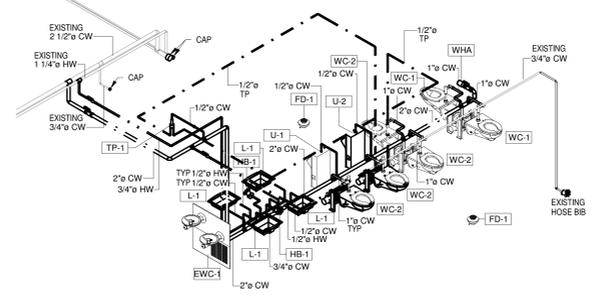
PROJECT NAME	PROJECT LOCATION	PROJECT OWNER
Brownsville PUB Admin Bldg Renovations	145 BROWNWOOD DR., BROWNSVILLE, TX	BROWNSVILLE PUBLIC UTILITIES BOARD



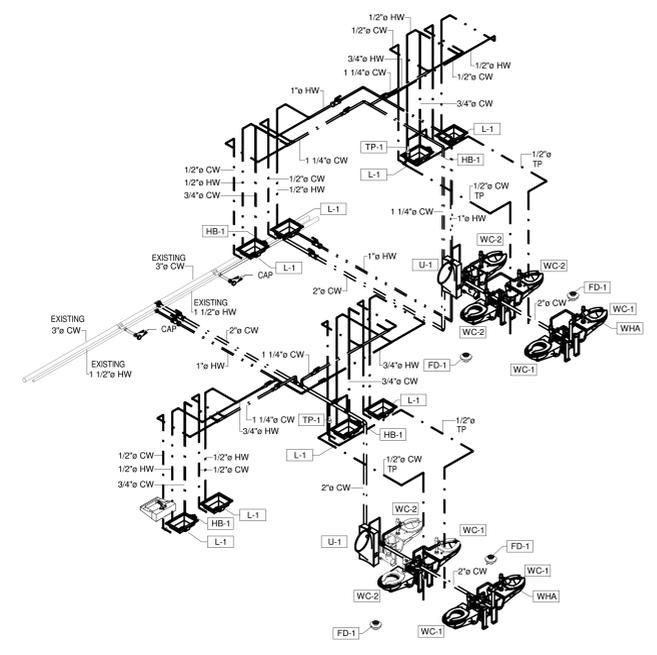
01 **PLUMBING RISER SCHEMATIC DIAGRAM  
- SANITARY SEWER - LOBBY**



02 **PLUMBING RISER SCHEMATIC DIAGRAM  
- SANITARY SEWER - EMPLOYEES  
RESTROOM**



03 **PLUMBING RISER SCHEMATIC DIAGRAM  
- DOMESTIC WATER - LOBBY**



04 **PLUMBING RISER SCHEMATIC DIAGRAM  
- DOMESTIC WATER - EMPLOYEES  
RESTROOM**

