Procurement Management
UNIVERSITY OF TEXAS RIO GRANDE VALLEY
1201 West University Drive · Edinburg, Texas 78539-2999 · Office: (956) 665-7021 · Fax: (956)665-2164 · Email: purch@utrgv.edu

DATE: February 4, 2019

MEMORANDUM

TO: All Interested Bidders

FROM: Marilu Reyes
Senior Procurement Specialist

SUBJECT: REQUEST FOR PROPOSAL (RFP) No: 19-MG-01

ADDENDUM NUMBER TWO

1. **Architect Updates to Bid Documents -** See Architect Addendum # 4

2. **Deadline for Questions** - February 5, 2019 at 12:00 pm CST.

Except for the items, listed, above all other items shall remain the same and unchanged
Please sign below to acknowledge receipt of addendum and return with your proposal.

Sincerely,
The University of Texas Rio Grande Valley

Company Name

Authorized Signature

Date

Boultinghouse Simpson Gates ARCHITECTS

3301 N. McColl Rd.
McAllen, Texas 78501

>>>>>>>>>>>>>ADDENDUM #4 <<<<<<<<<<<<<

Monday, February 4, 2018

University of Texas Rio Grande Valley

School of Medicine

Jackson Road Remodel

UTRGV PROJECT NUMBER #PED-18-33
Edinburg, Texas
Boultinghouse Simpson Gates Project No. 1802

Addendum #4 (Bid Package #2) to the drawings and specifications dated October 31st, 2018 for the UTRGV SOM Jackson Road Remodel.

This addendum shall become part of the bidding and contract documents, and shall amend, modify and supersede the original documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

Item	Description

General:

4-1 Add **Spectrum Lighting, Inc. San Antonio** to the list of approved vendors for the lighting package.

4-2 Add **Mannington** to the list of approved vendors for the carpet and LVT flooring.

Architectural:

4-3 Replace VCT flooring with carpet flooring as per the attachment ADD4-1.

4-4 See attachment ADD4-2 and ADD4-3 for enlarged floor plans showing interior architectural millwork that was deleted from the interior furniture package and will now be part of the architectural millwork of bid package #2.

4-5 See attachments ADD4-4, ADD4-5, ADD4-6, ADD4-7, ADD4-8, ADD4-9, ADD4-10, ADD4-11, ADD4-12, ADD4-13, ADD4-14, ADD4-15, ADD4-16, ADD4-21 for new interior elevations showing new architectural millwork to be added to the project.

4-6 See attachments ADD4-17, ADD4-18, ADD4-19 and ADD4-20 for new architectural millwork section details that correspond to the new interior elevation markers on the enlarged plans attachments ADD4-2 and ADD4-3.

Mechanical Electrical Plumbing:

4-7 See attached MEP Addendum provided by Ethos Engineering.

END OF UTRGV SOM Jackson Road Remodel ADDENDUM #4

FINISH FLOOR LEGEND

20"x20" LVT
- PATCRAFT TYPOLOGY
  a. TYPEFACE LVT COLOR 00630/PUNCTUATE-1/3 TOTAL SF
  b. CHARTED LVT COLOR 00630/PUNCTUATE - 1/3 TOTAL SF
  c. LETTERPRESS LVT COLOR 00630/PUNCTUATE - 1/3 TOTAL

12"x24" PORCELAIN TILE
- DALTILE
  b. FLOOR
  AXIOM SILVER FM94 - UNPOLISHED
  c. GROUT
  MAPEI 107 IRON

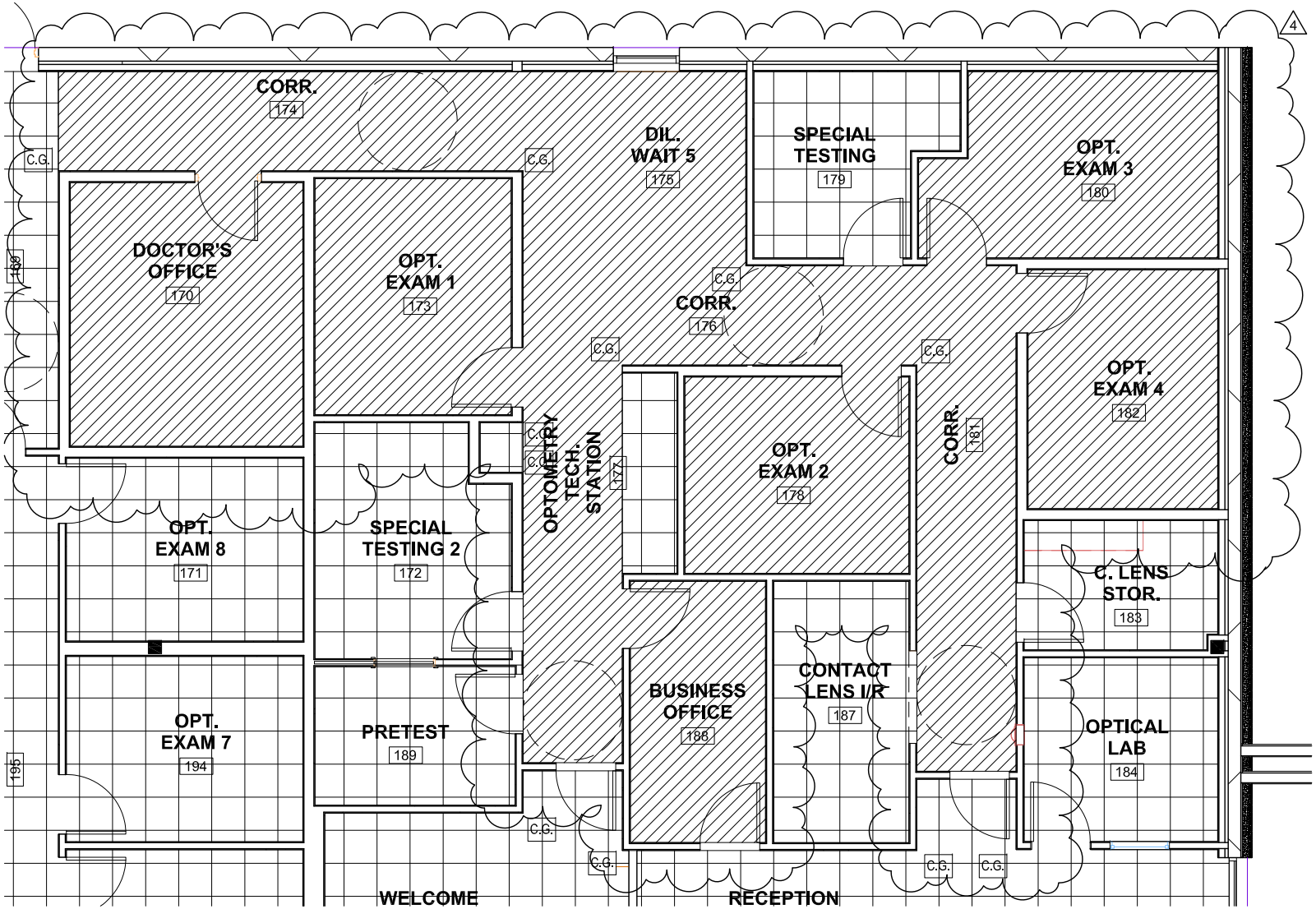
SEALED CONCRETE

FINISH FLOOR LEGEND CONT,

24"x24" CARPET TILE
- PATCRAFT MID CENTURY POP
- ASHLAR PATTERN
  a. I0381 -COLOR POP
  b. 00650 RETRO POP

SHEET VINYL
- PATCRAFT ORGANIC HUE SMOKE 00710
  WITH WELDED SEAMS - WEL2020
- WRAP UP WALLS 4" FOR BASE

C.G. 5'-0" TALL STAINLESS STEEL CORNER GUARDS SET ON TOP OF BASE



ENLG. PARTIAL PLAN - SOUTH

SCALE: 3/16" = 1'-0"

A1

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REGISTERED ARCHITECT 11-01-18

Boultinghouse Simpson Gates Architects
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Project # 1802
UTRGV PROJECT # PED-18-33
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
3804 S. JACKSON RD. | EDINBURG, TX | 78539

Issue Date 4 FEBRUARY 2019
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27 NOVEMBER 2018

FINISH FLOOR PLAN - SOUTH

ADD4-1

EXAM 6 AUDIOLOGY BOOTH 125
PATIENT R.R. 127
STAFF R.R. 128
STAFF LOUNGE 136
SURGERY EXAM 7 144
CORR. 135
ADULT EXAM 6 145
ADULT STAFF R.R. 1 150
ADULT STAFF R.R. 2 152
FIRE RISER 155
SURGERY EXAM 5 124
SURGERY EXAM 2 HC 129
CUST. 134
LAB 133
SURGERY EXAM 1 130
MEDS 131
SHARED EXAM OR 11 137
SURGERY EXAM 8 143
SURGERY EXAM 9 142
STORAGE 138
CLEAN UTILITY 139
SOILED UTILITY 140
CORR. 132
CORR. 141
ADULT EXAM 5 146
ADULT EXAM 3 149
ADULT EXAM 4 147
ADULT EXAM 2 148
CORR. 151
CLOSET 153
MECH. 154
CORR. 158
SURGERY EXAM 4 123
SURGERY EXAM 3 122
ULTRA SOUND 121
X-RAY CENTER 120
SURGERY NURSE'S STATION 118
DR. OFFICE 119
SURGERY RECEPT. 117
WAITING 116
CORR. 113
SHARED PROCED. 2 114
SHARED PROCE. 1 HC 112
WORK STATIONS 115
SURGERY EXAM 10 111
ADULTCARE NURSE'S STATION 108
ADULT EXAM 1 109
FIN. ADV. 1 107
MENS 110
WOMENS 106
ADULT PRIMARY CARE WAITING 104
VITALS 1 102
VITALS 2 103
ADULT & PEDI CARE WAITING 100.1
CORR. 105
CORR. 126
CORR. 116A
CORR. 116B
CORR. 116C
CORR. 116D
CORR. 105A
CORR. 105B
CORR. 104A
CORR. 104B

ENLG. PARTIAL PLAN - NORTH

SCALE: 3/16" = 1'-0"

A1

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REGISTERED ARCHITECT ROBERT S. SIMPSON 8355 TEXAS
11-01-18

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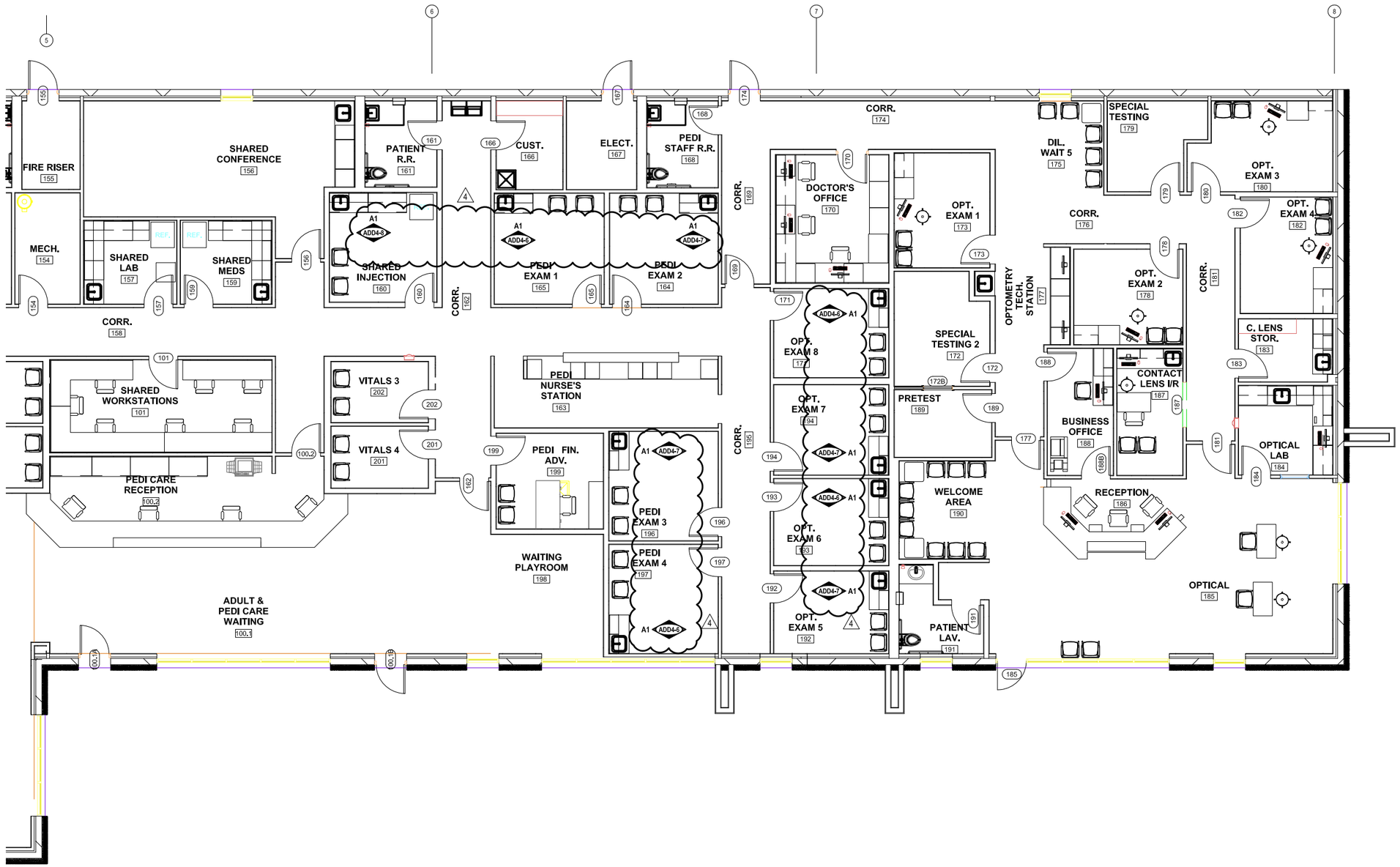
ENLARGE PARTIAL PLAN - NORTH

ADD4-2



ENLG. PARTIAL PLAN - SOUTH

SCALE: N.T.S.

A1

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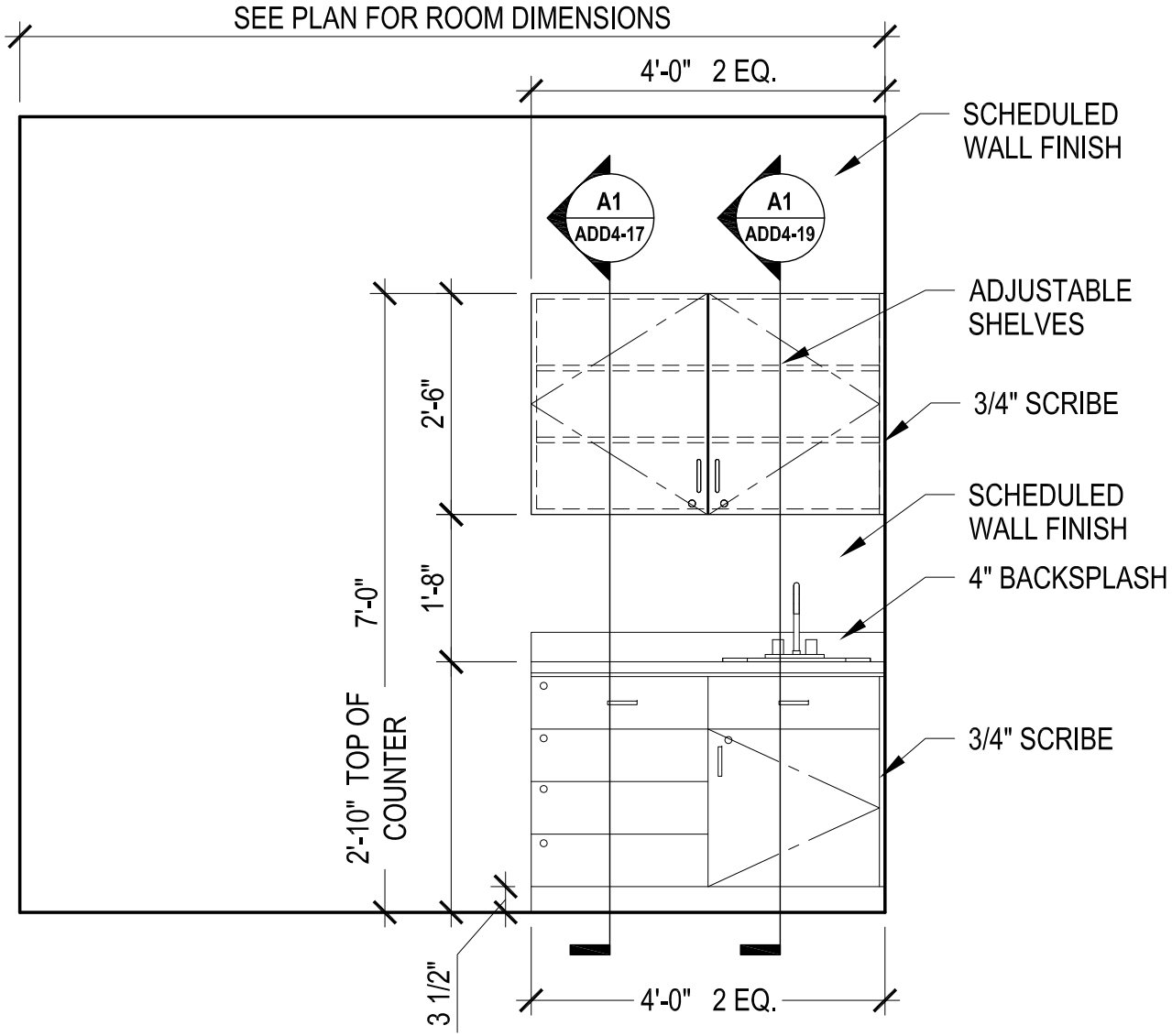
ENLARGE PARTIAL PLAN - SOUTH

ADD4-3



ROOM #
- ADULT EXAM 147, 149, 109
- ULTRA SOUND 121
- SURGERY EXAM 122, 123, 124

MILLWORK ELEVATION

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

A1

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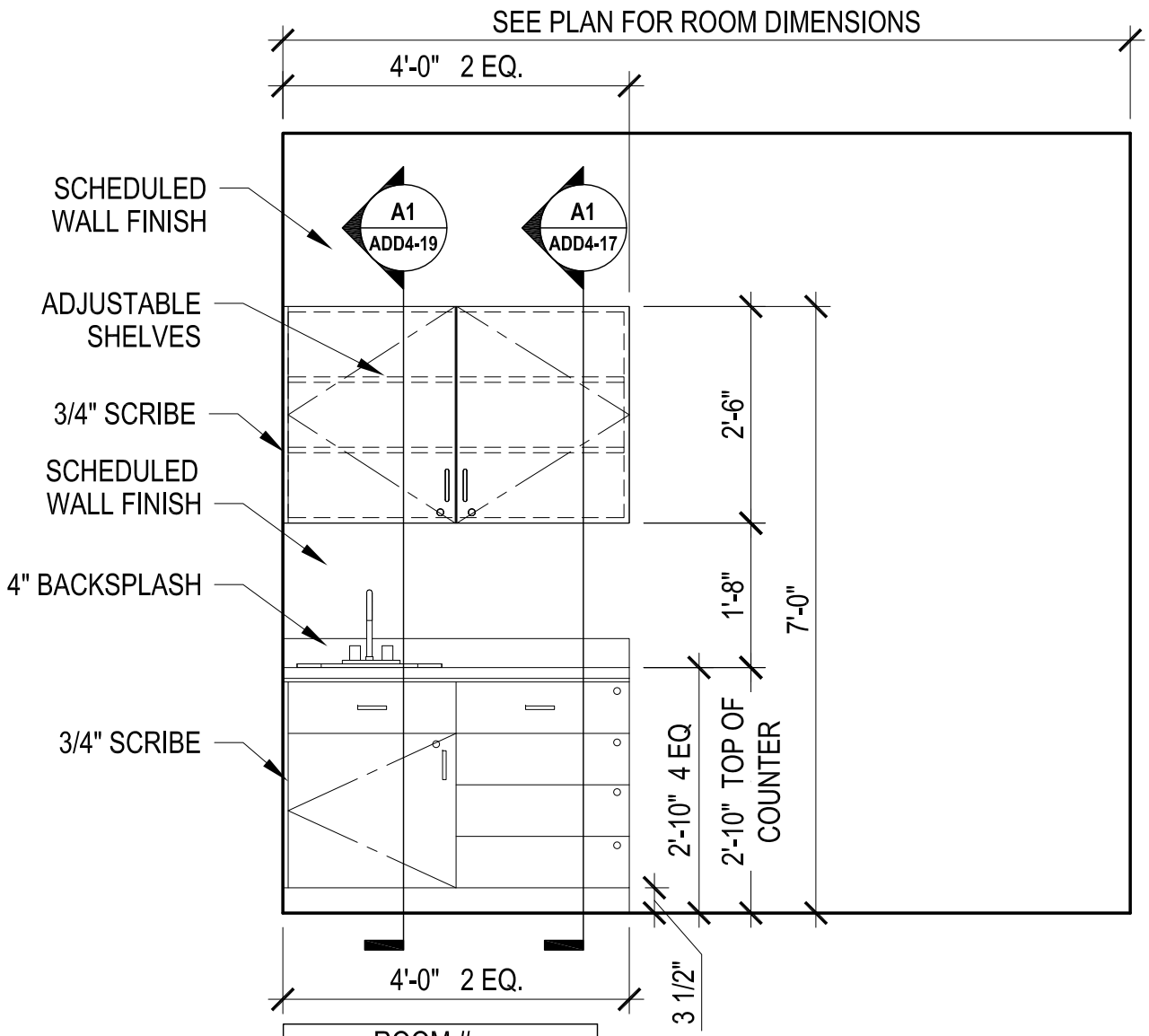
27 NOVEMBER 2018

ENLARGE PARTIAL PLAN - SOUTH

ADD4-4



ROOM #
ADULT EXAM 146, 148

MILLWORK ELEVATION

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

A1

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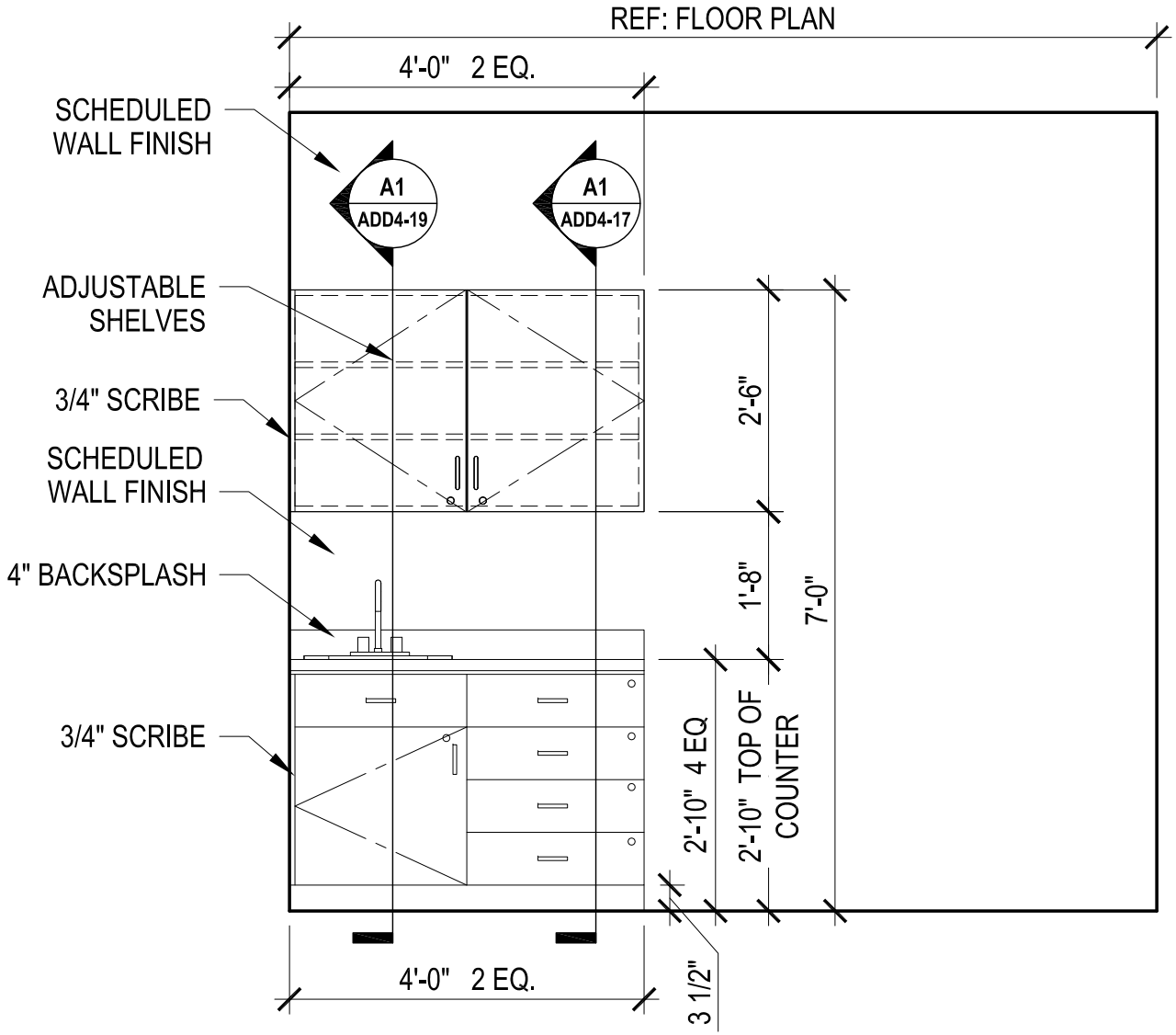
MILLWORK ELEVATION

ADD4-5



ROOM #
- PEDI EXAM 165, 197
- OPT EXAM 8 171
- OPT EXAM 6 193

MILLWORK ELEVATION A1

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

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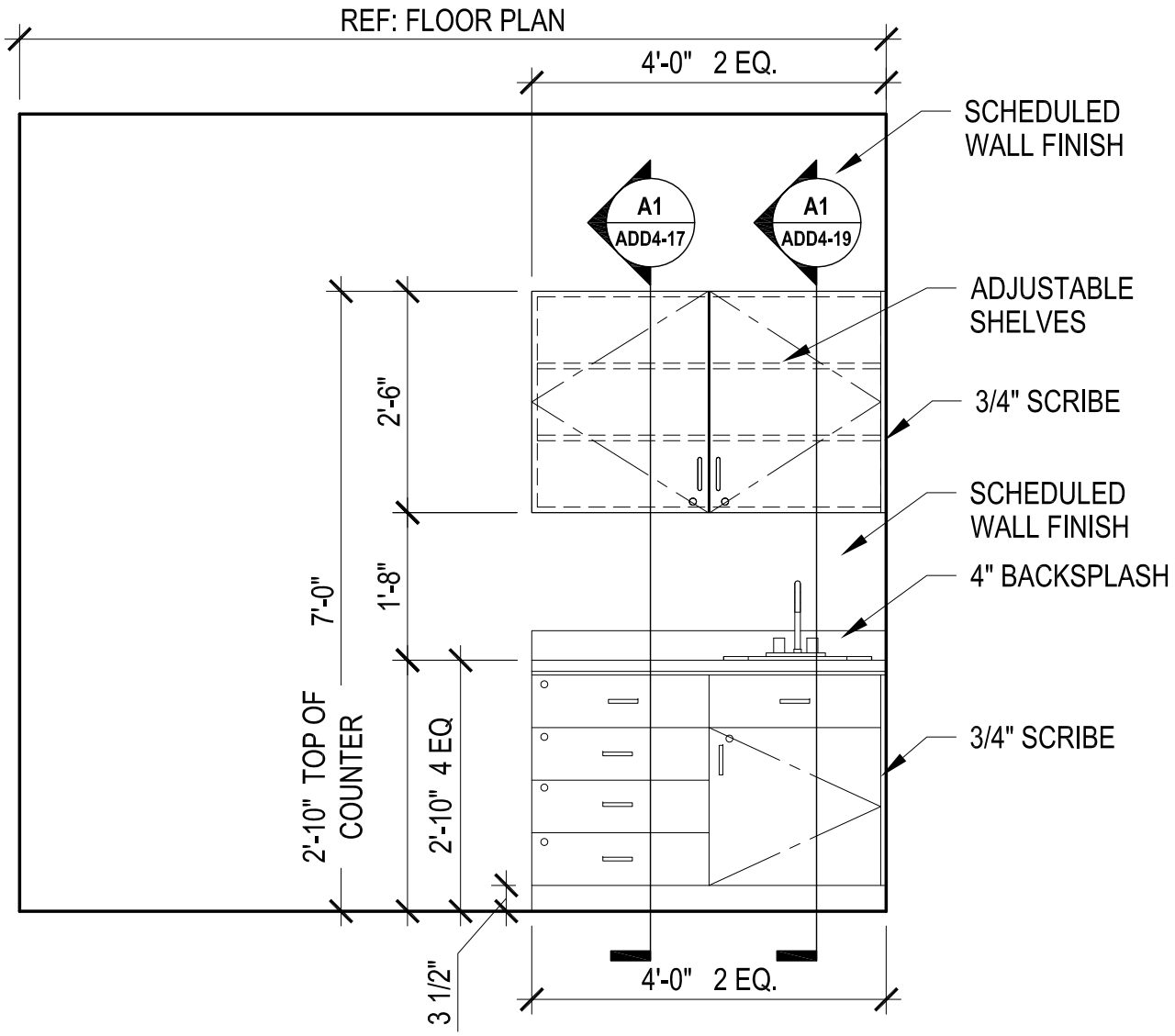
27 NOVEMBER 2018

MILLWORK ELEVATION

ADD4-6



ROOM #

- PEDI EXAM 164, 196
- OPT EXAM 7 194
- OPT EXAM 6 192

MILLWORK ELEVATION A1

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

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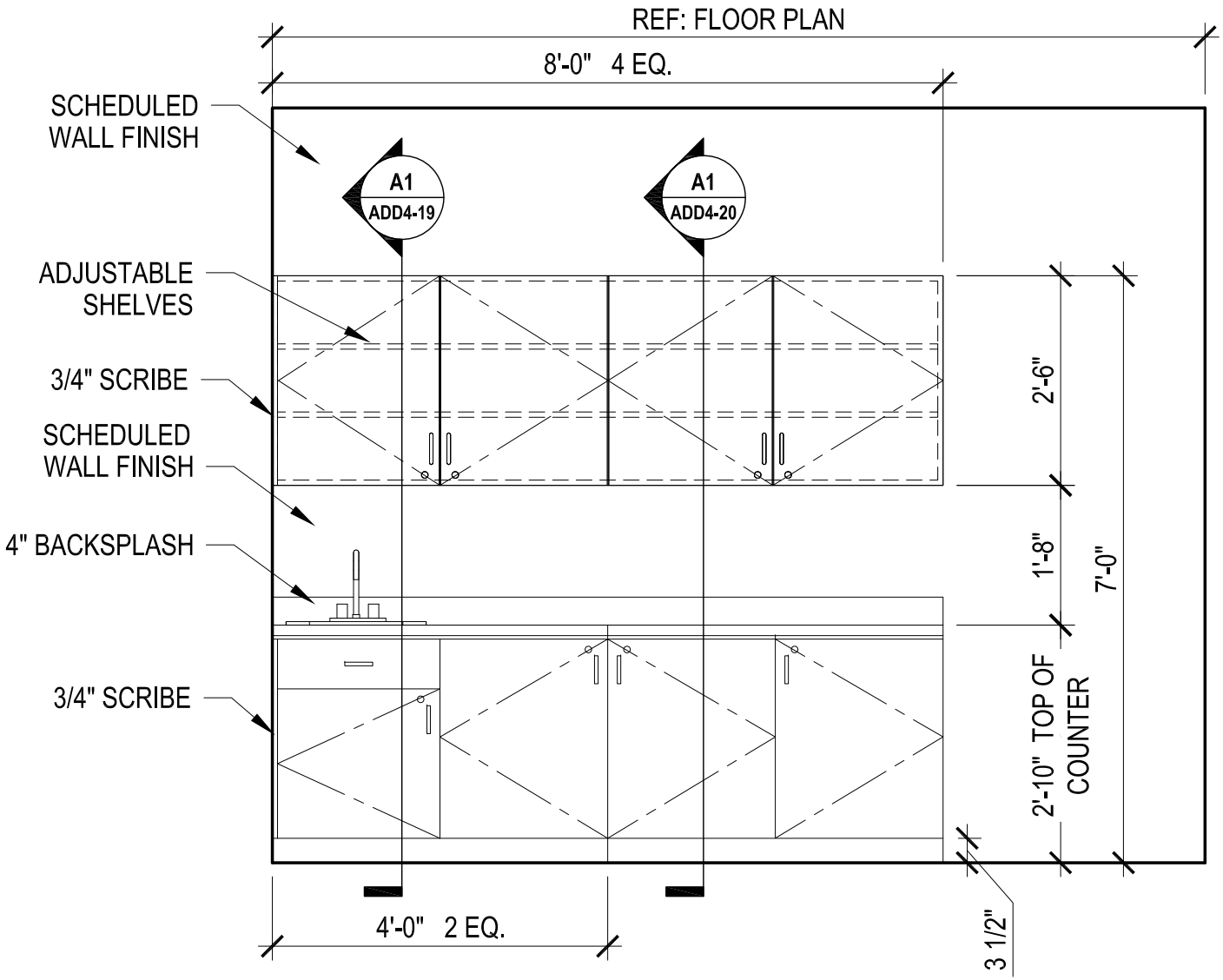
27 NOVEMBER 2018

MILLWORK ELEVATION

ADD4-7



ROOM #
- SHARED INJECTION 160

MILLWORK ELEVATION

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

A1

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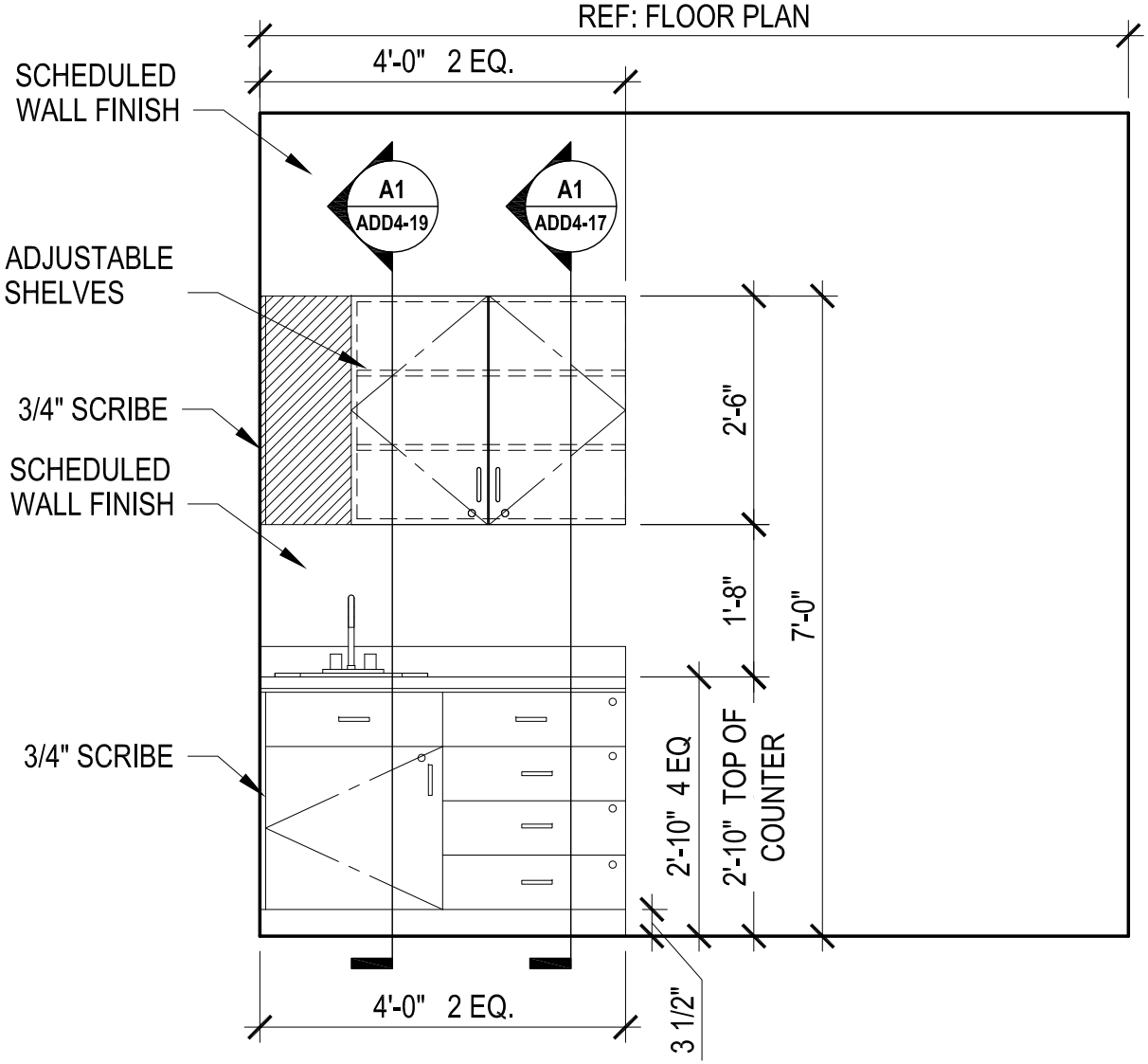
MILLWORK ELEVATION

ADD4-8



ROOM #
- SURGERY EXAM 142

MILLWORK ELEVATION A1

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

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REGISTERED ARCHITECT 23558 STATE OF TEXAS
11-01-18

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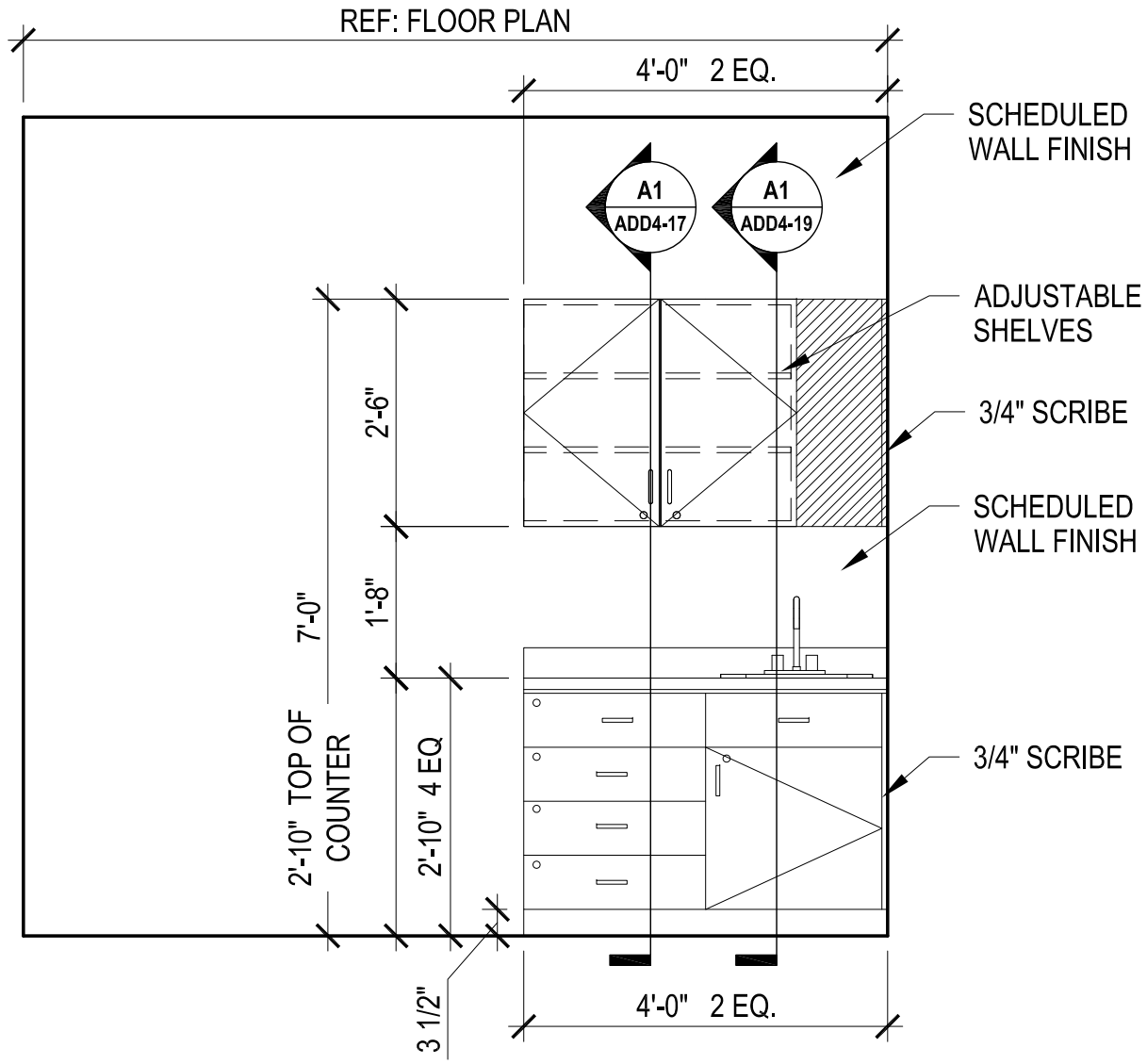
27 NOVEMBER 2018

MILLWORK ELEVATION

ADD4-9



ROOM #
- SURGERY EXAM 143, 144

MILLWORK ELEVATION A1

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

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REGISTERED ARCHITECT 23558 STATE OF TEXAS
11-01-18

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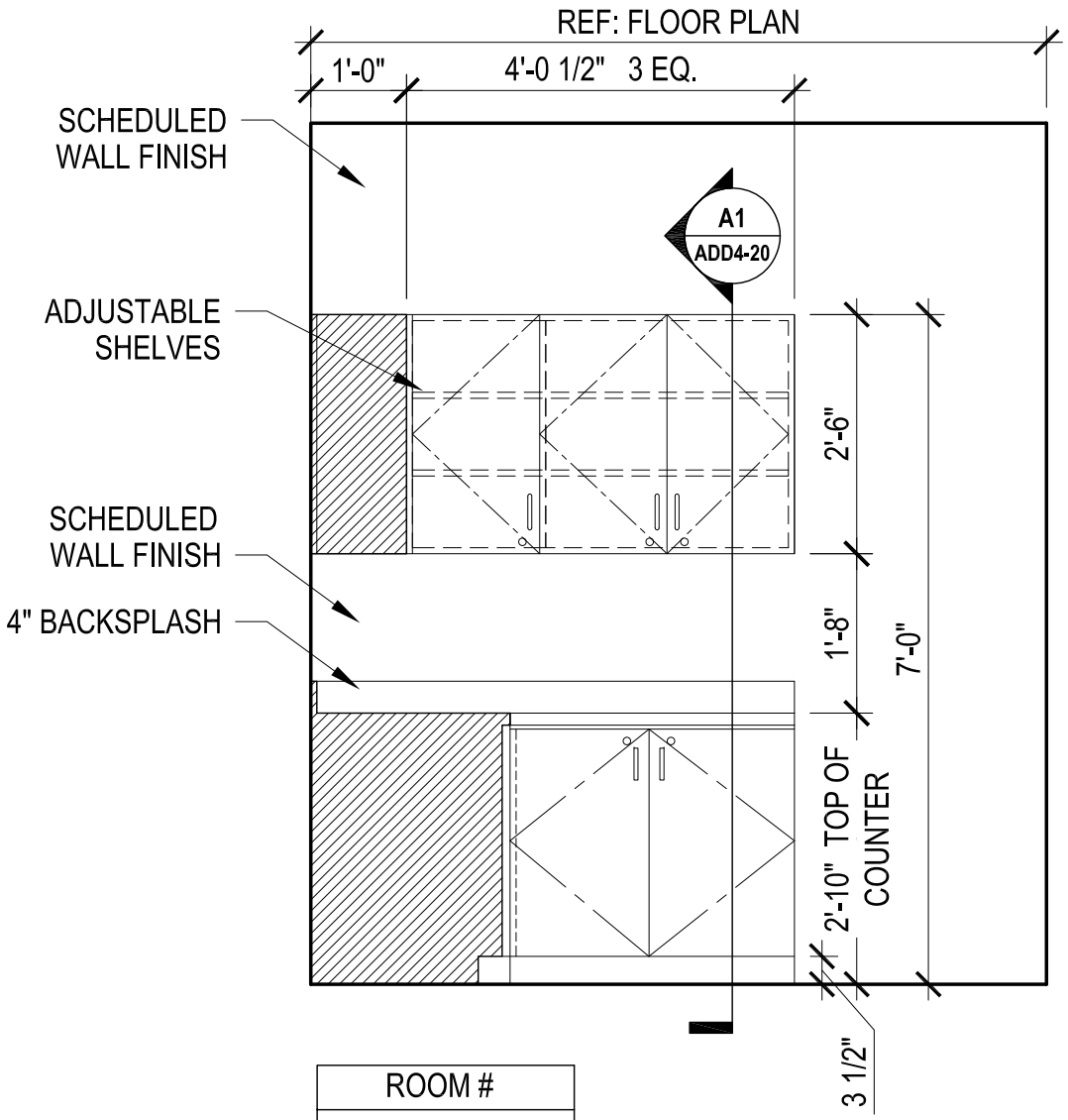
27 NOVEMBER 2018

MILLWORK ELEVATION

ADD4-10



ROOM #
- LAB 133 (NORTH)

MILLWORK ELEVATION

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

A1

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REGISTERED ARCHITECT
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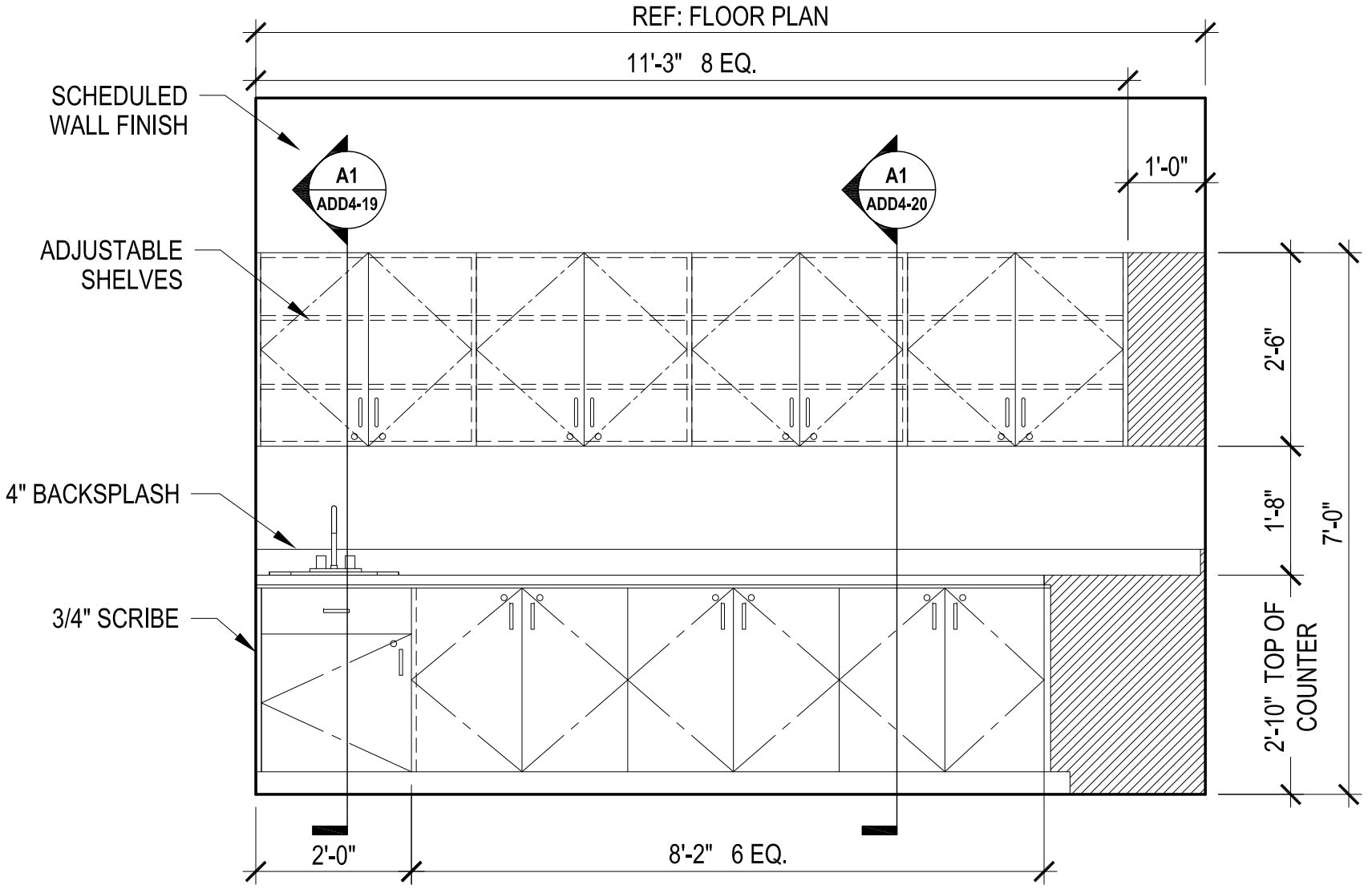
27 NOVEMBER 2018

MILLWORK ELEVATION

ADD4-11



ROOM #
- LAB 133 (WEST)

MILLWORK ELEVATION A1

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

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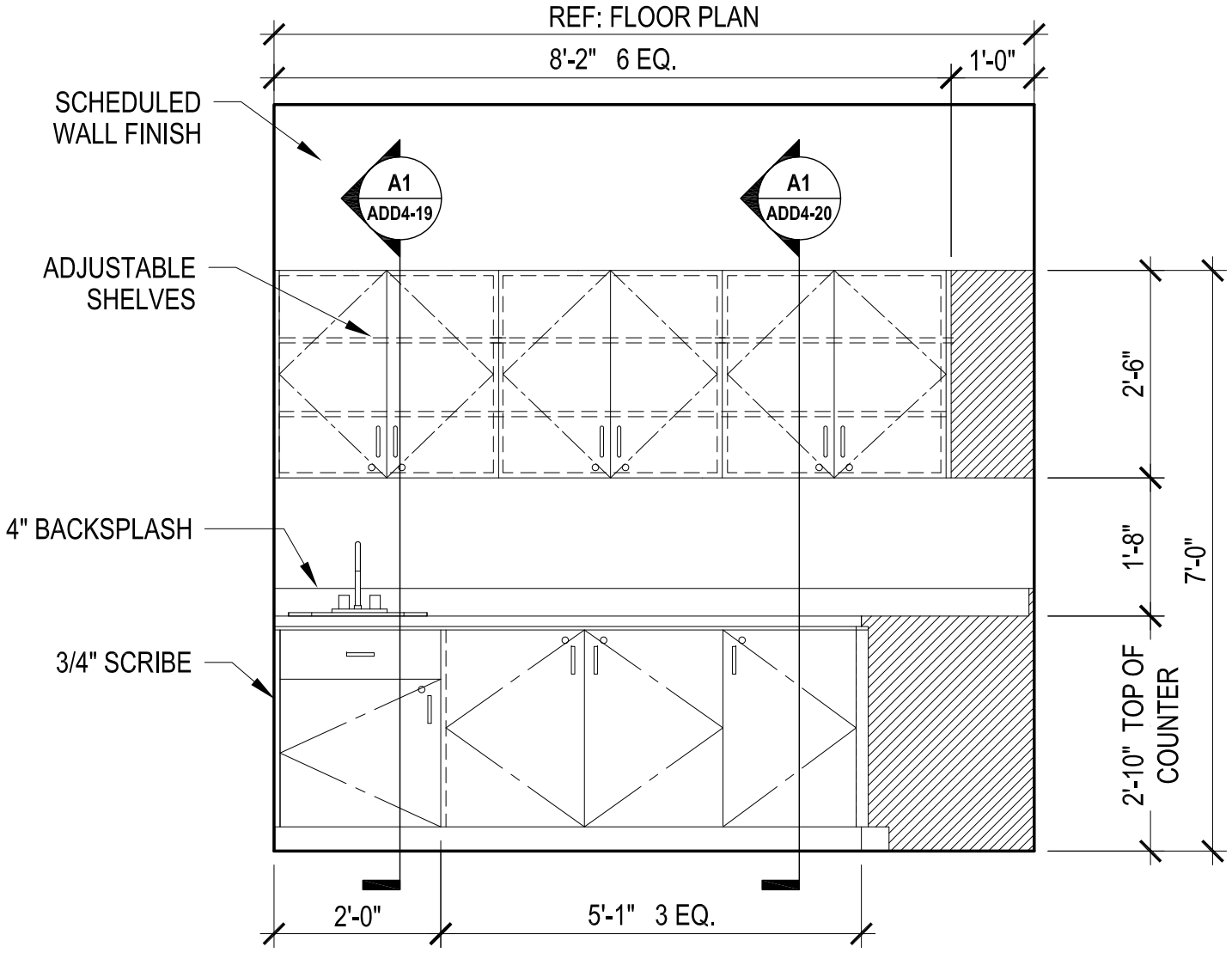
MILLWORK ELEVATION

ADD4-12



ROOM #
- MEDS 131 (NORTH)

MILLWORK ELEVATION A1

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

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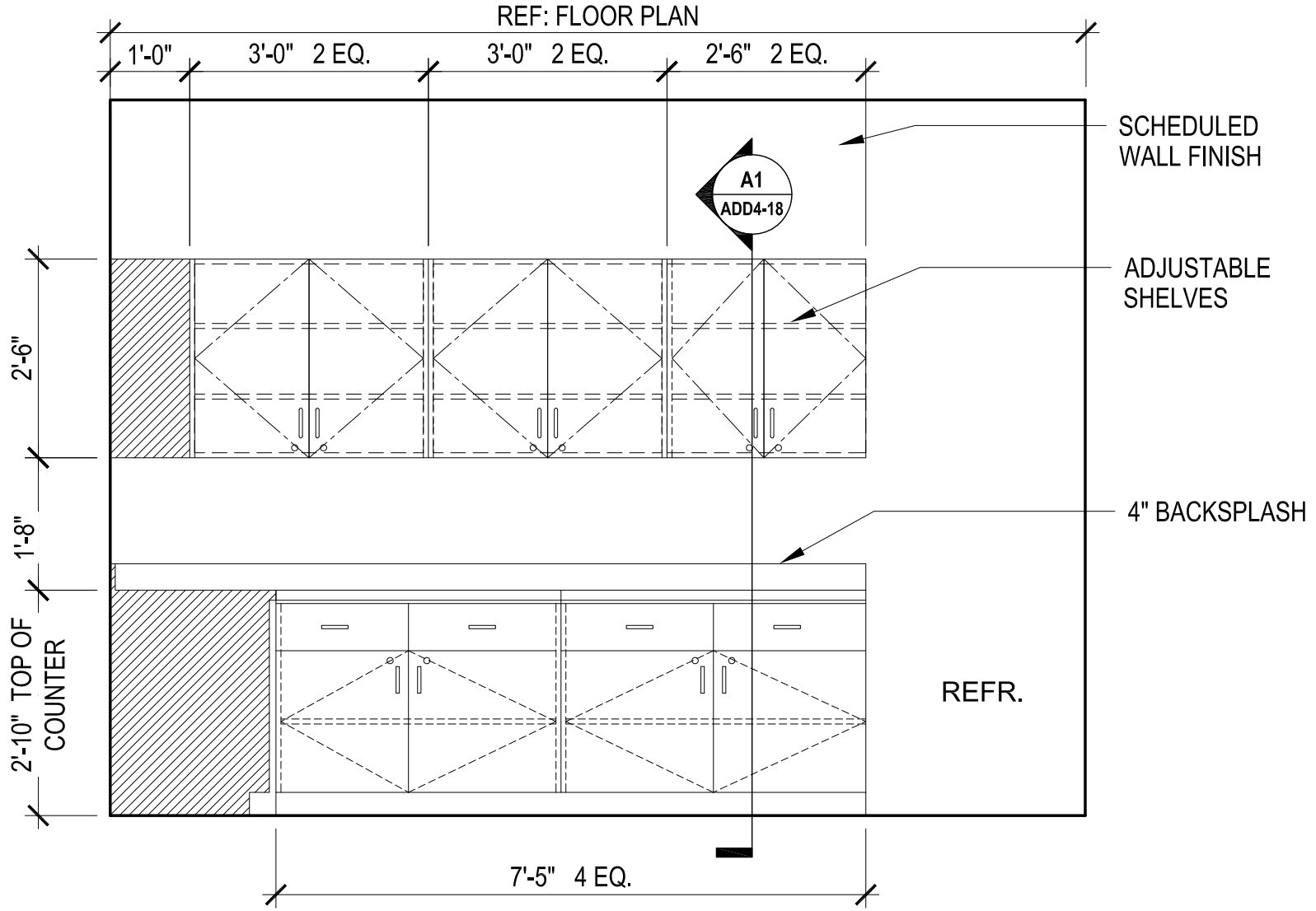
27 NOVEMBER 2018

MILLWORK ELEVATION

ADD4-13



ROOM #
- MEDS 131 (EAST)

MILLWORK ELEVATION A1

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

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REGISTERED ARCHITECT 11-01-18

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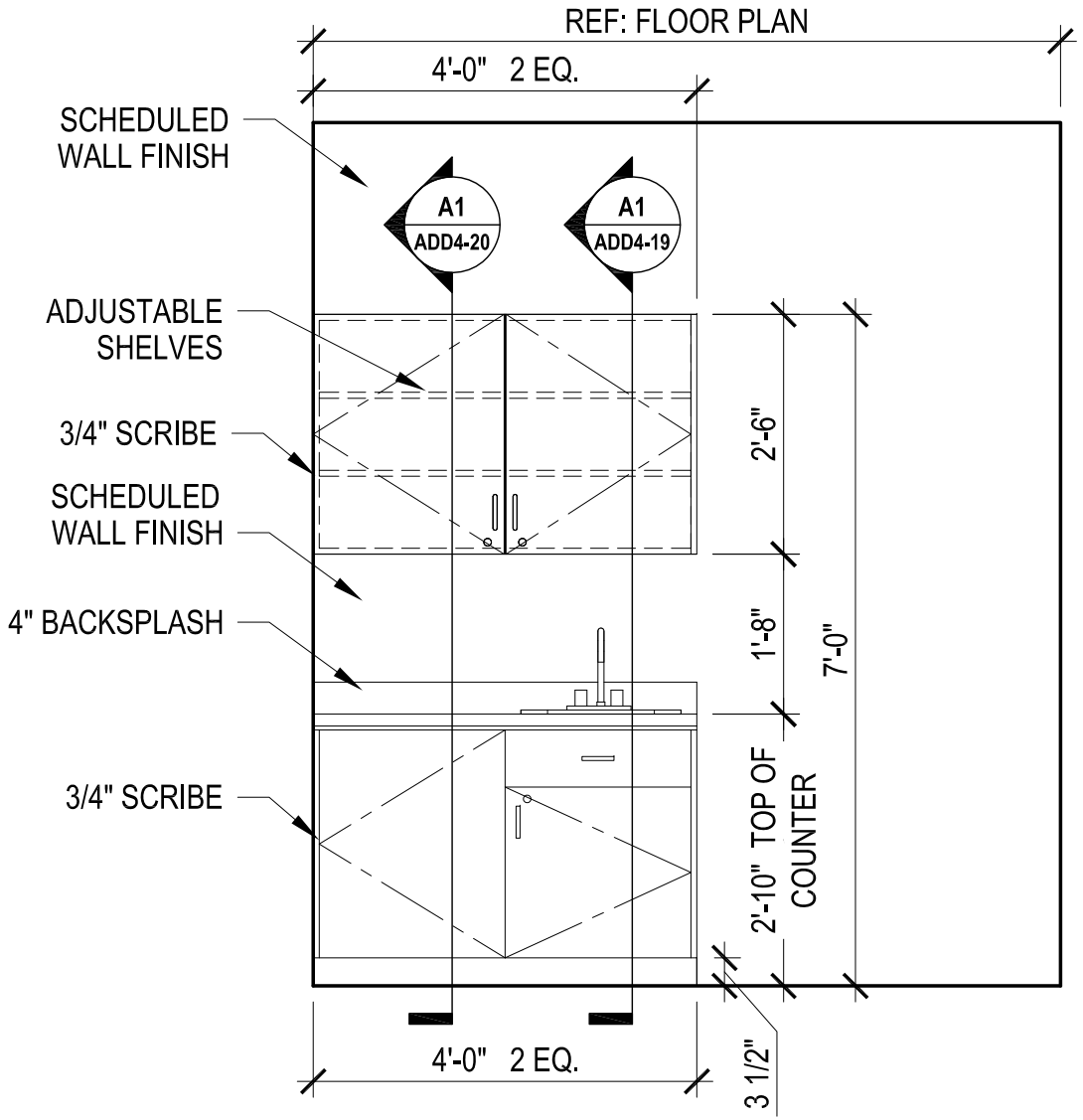
MILLWORK ELEVATION

ADD4-14



ROOM #
- CLEAN UTILITY 139

MILLWORK ELEVATION

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

A1

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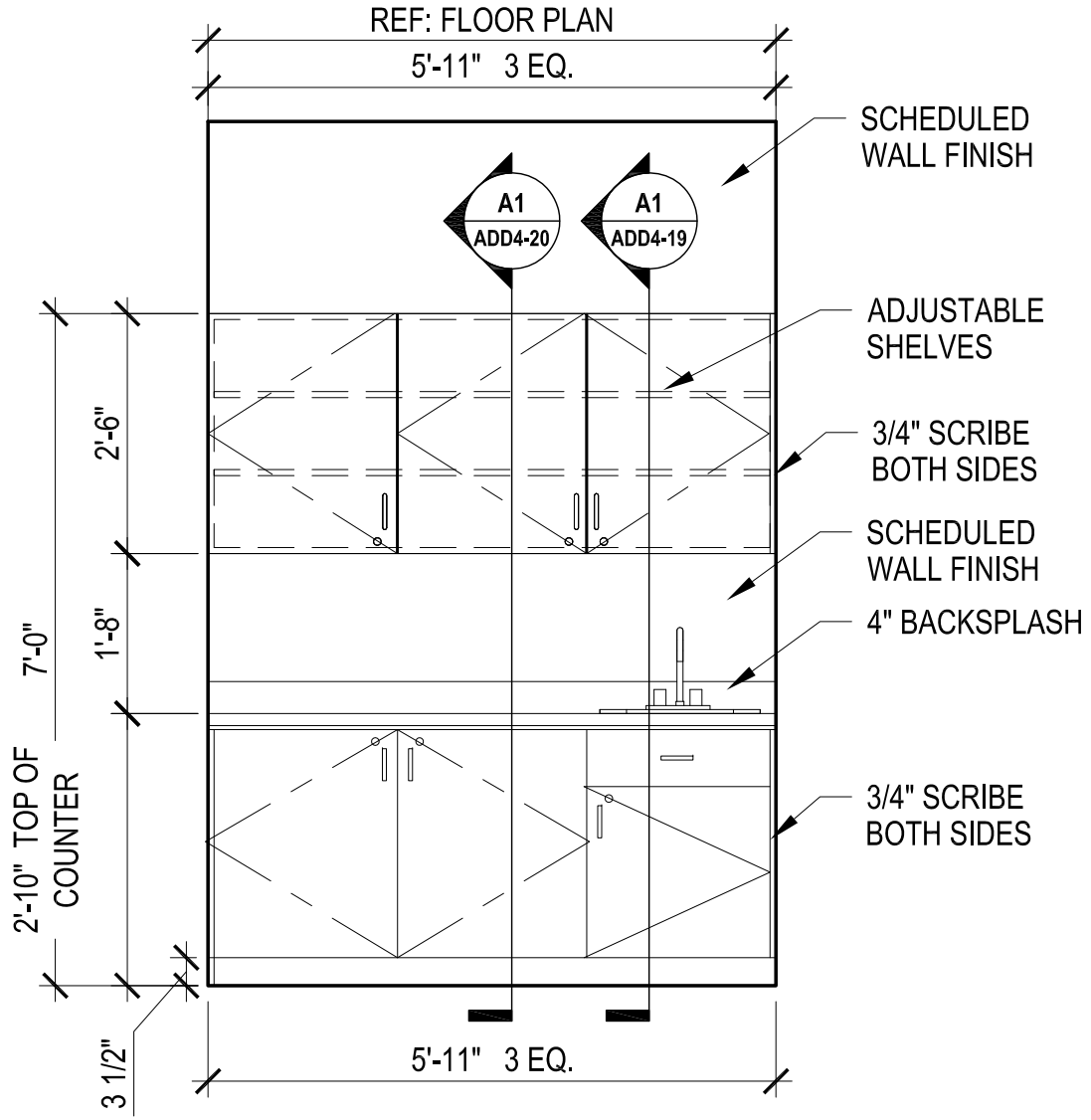
MILLWORK ELEVATION

ADD4-15



ROOM #
- SOILED UTILITY 140

MILLWORK ELEVATION

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

A1

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REGISTERED ARCHITECT
11-01-18

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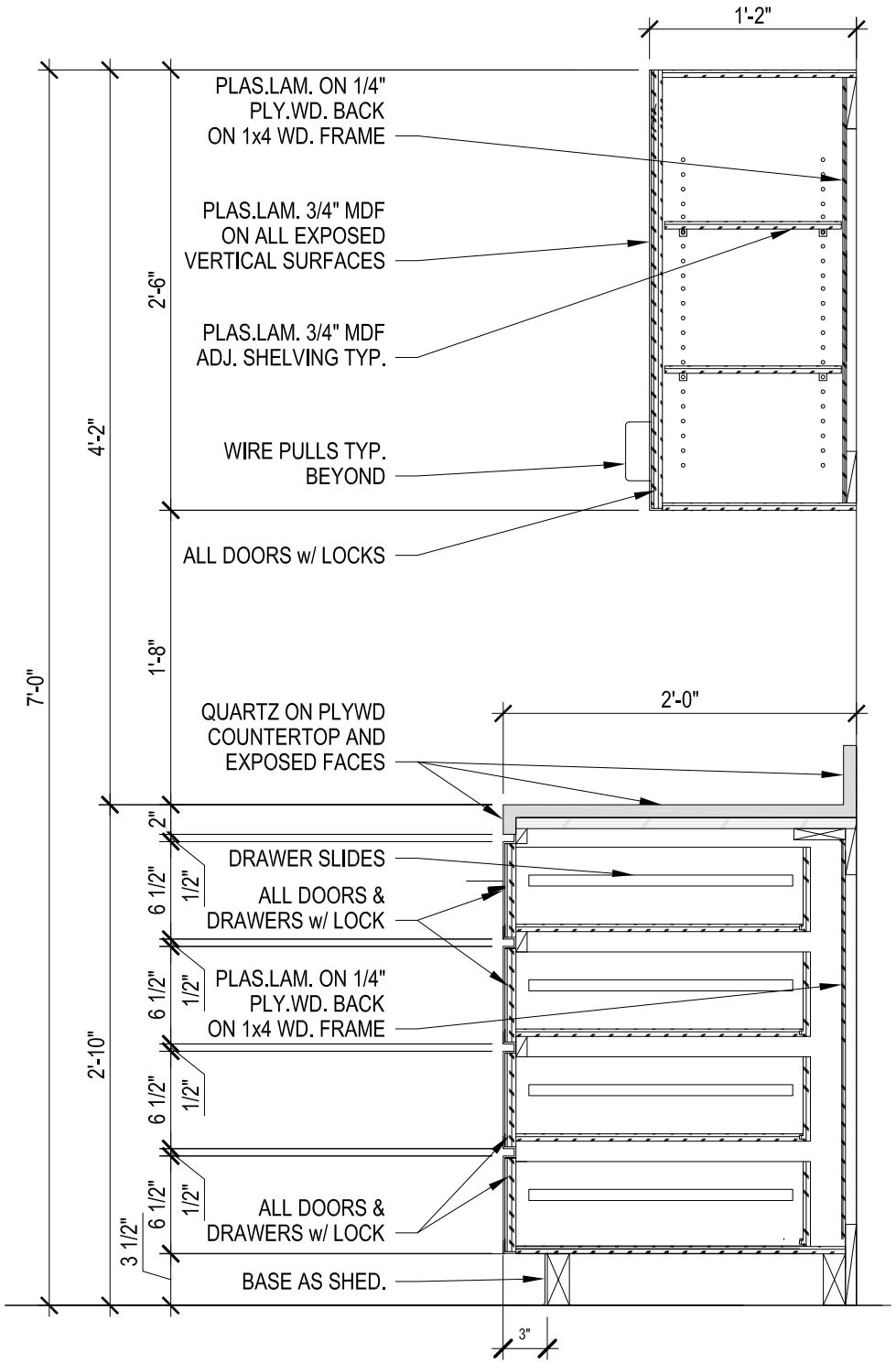
MILLWORK ELEVATION

ADD4-16



MILLWORK SECTION

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

A1

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Project # 1802
UTRGV PROJECT # PED-18-33

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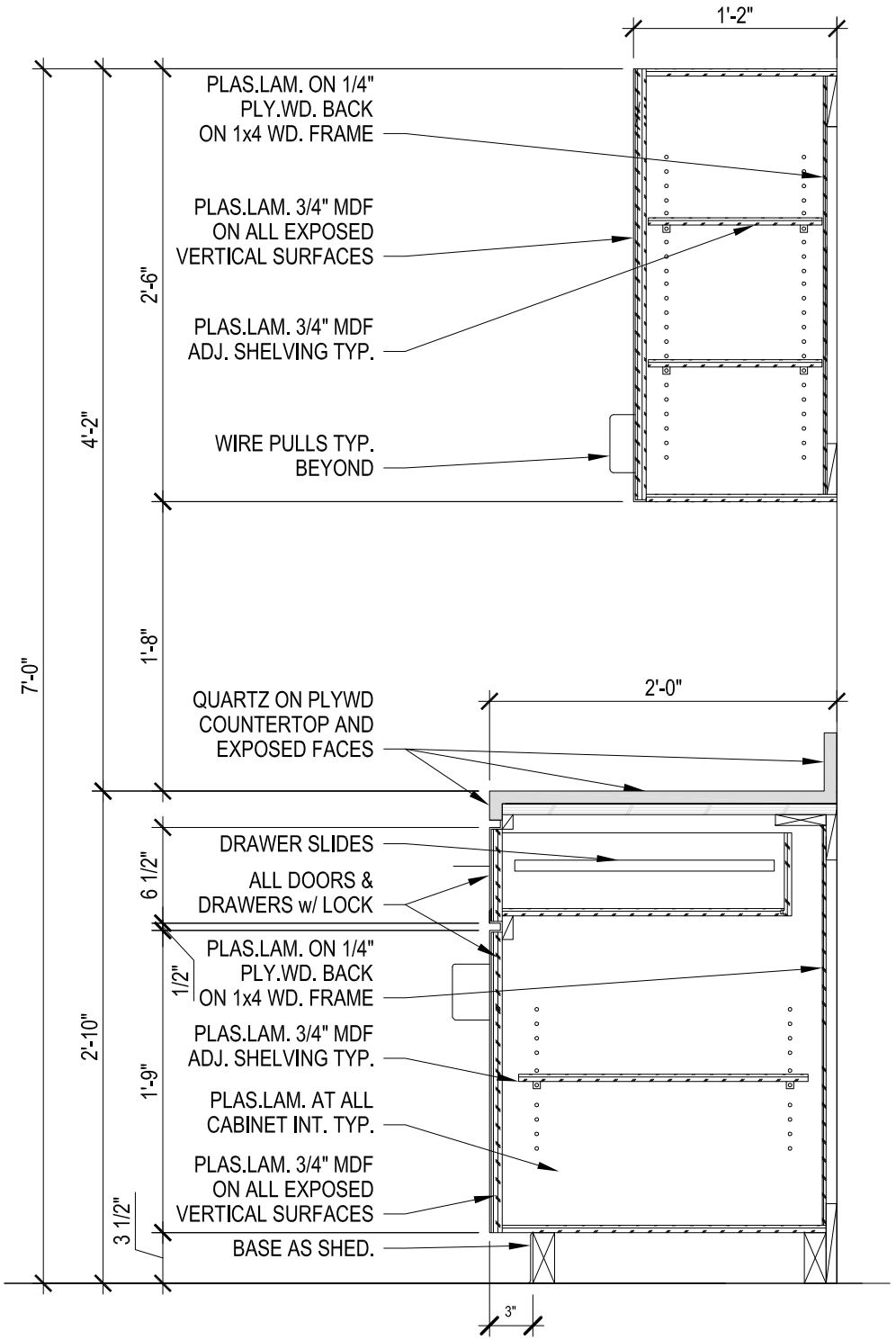
MILLWORK SECTION

ADD4-17



MILLWORK SECTION

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

A1

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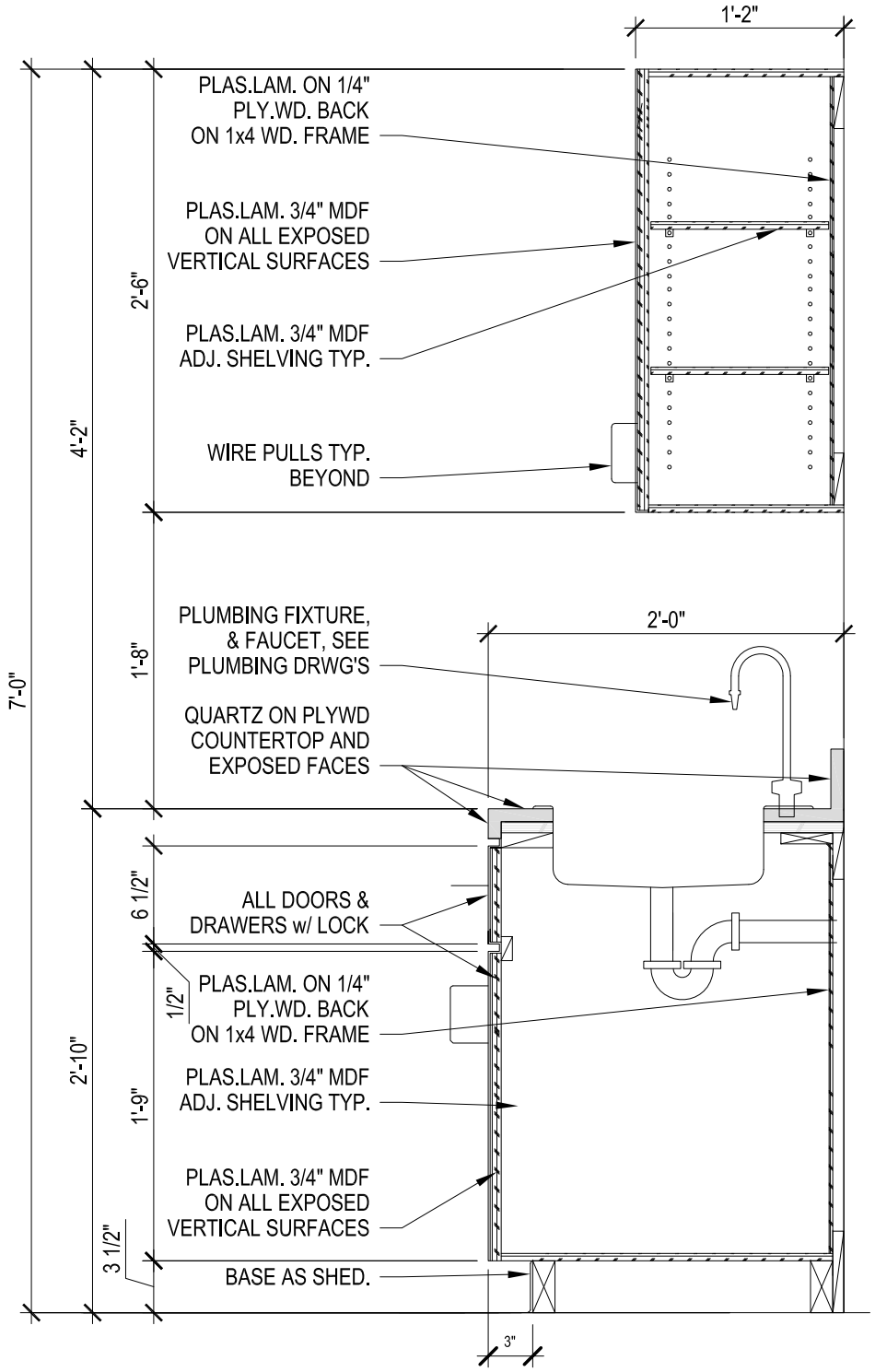
MILLWORK SECTION

ADD4-18



MILLWORK SECTION

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

A1

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956.665.2770

REGISTERED ARCHITECT
11-01-18

Boultinghouse Simpson Gates ARCHITECTS
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UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
3804 S. JACKSON RD. | EDINBURG, TX | 78539

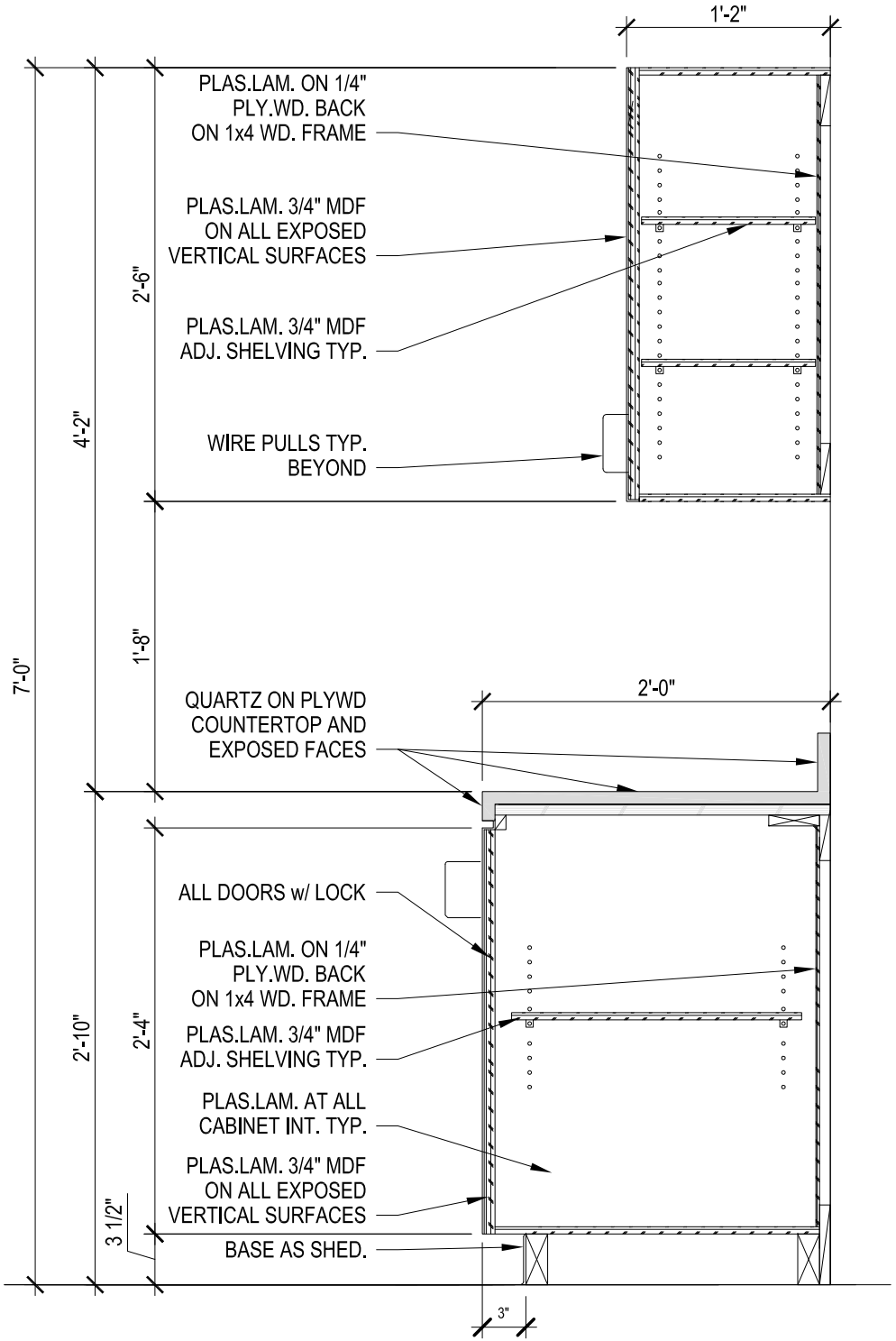
Project # 1802
UTRGV PROJECT # PED-18-33

Issue Date 4 FEBRUARY 2019

Revision - 2-4-2019 4
27 NOVEMBER 2018

MILLWORK SECTION

ADD4-19



MILLWORK SECTION

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

A1

UTHealth Rio Grande Valley
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UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
3804 S. JACKSON RD. | EDINBURG, TX | 78539

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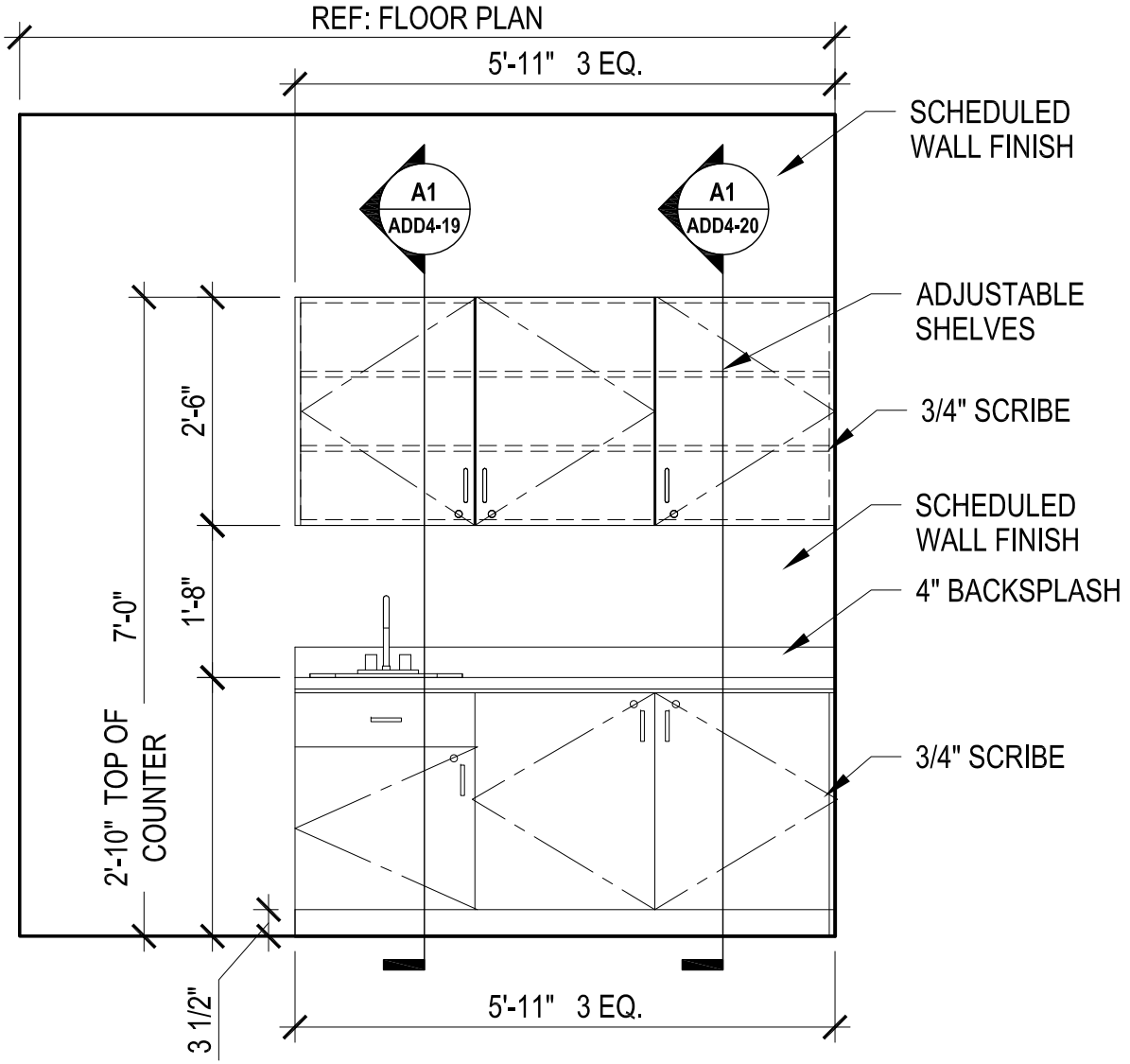
Revision - 2-4-2019 4
27 NOVEMBER 2018

MILLWORK SECTION

ADD4-20



ROOM #
- STAFF LOUNGE 136

MILLWORK ELEVATION

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

A1

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MILLWORK ELEVATION

ADD4-21

119 W. Van Buren Ave. Ste. 101
Harlingen, TX 78550
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February 4, 2019
UTRGV School of Medicine
Jackson Rd.

ADDENDUM NO. 4

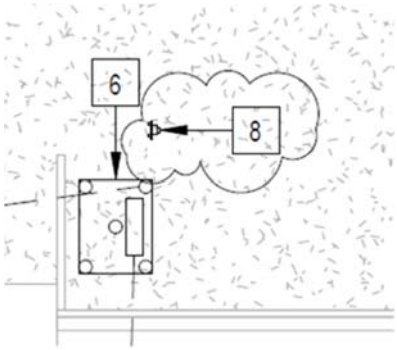
A. PURPOSE AND INTENT

This addendum is issued for the purpose of modifying the plans and specifications for the project referenced above.
This addendum shall become part of the contract and all contractors shall be bound by its content. All aspects of the specifications and drawings not covered herein shall remain the same.
The General Conditions and the Special Conditions of the specifications shall govern all parts of the work and apply in full force to this addendum.

B. SCOPE

I. DRAWINGS:

1. Sheet MEP1.01:
    a. Electrical Keyed Note #6:
        i. Provide an allowance of $15,000 for electric utility pad mount transformer installation. Also included in this allowance amount is a new concrete pad in the event that the existing does not meet the approval of the utility company. Coordinate with utility company. See attached AEP concrete pad requirements.
    b. Electrical Keyed Note #8:
        i. Apply key note as illustrated below.

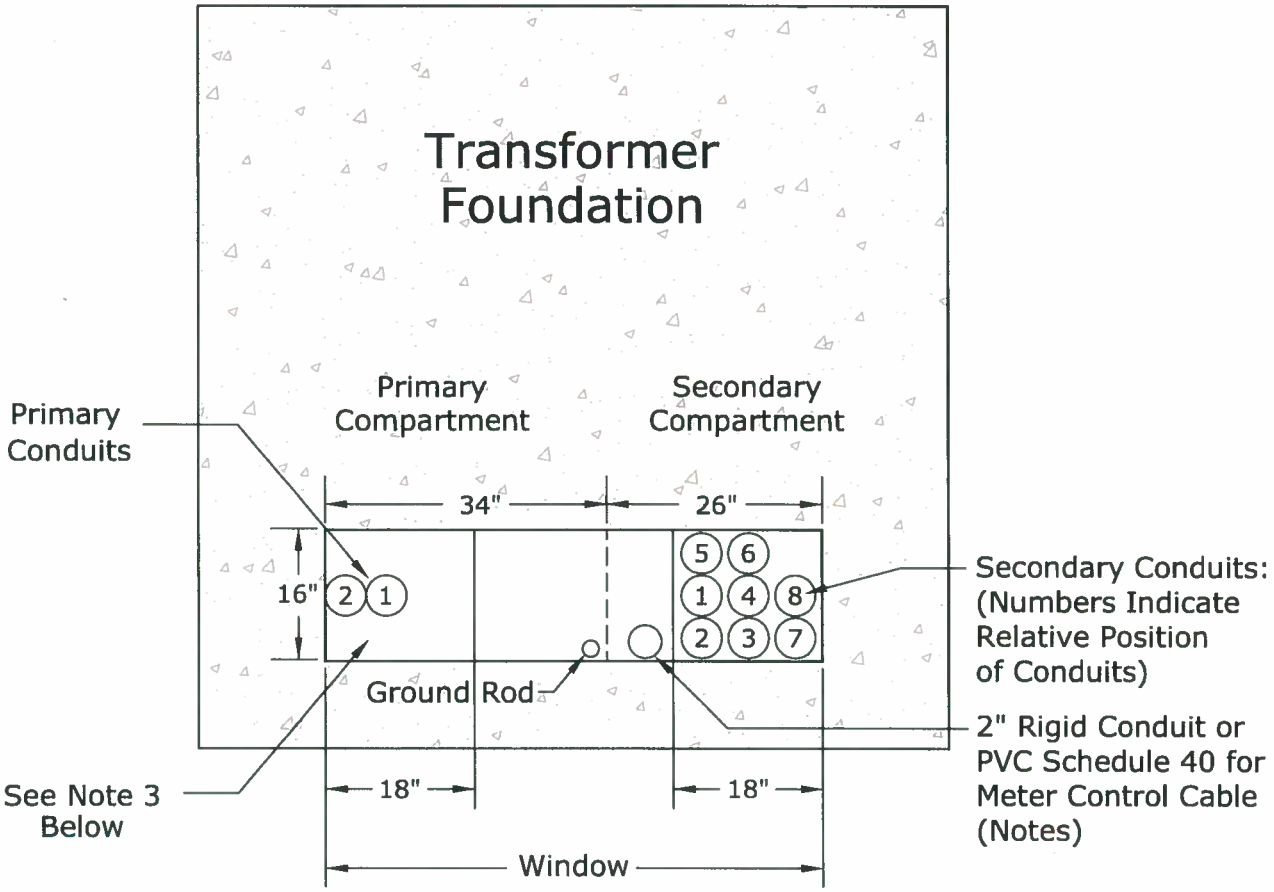


c. Fire Suppression : Refer to attached revised full size sheet.

2. Sheet M3.01:
    a. Mechanical Keyed Note #8:
        i. Key note will not be used. Fire dampers are not required.

3. Sheet M3.02:
    a. Mechanical Keyed Note #8:
        i. Key note will not be used. Fire dampers are not required.

4. Sheet M5.01:
    a. ROOF MOUNTED DEDICATED OUTSIDE AIR UNIT SCHEDULE: replace schedule in its entirety. See attached new schedule sheet.
    b. ROOFTOP UNIT SCHEDULE: replace schedule in its entirety. See attached new schedule.
    c. Clarification: Windstorm certification is not required for this project. However, the contractor shall ensure that installations of curbs and RTUs are capable of withstanding the local wind pressures. It is our understanding that Owner is pre-purchasing the RTUs with the engineered/curbs. The curbs are being engineered/designed by the RTU manufacturer. Owner and RTU manufacturer shall provide the installation instructions of the curbs, RTUs and related attachments and contractor shall follow those instructions. Contractor shall coordinate with Owner and RTU manufacturer to ensure all information is provided.



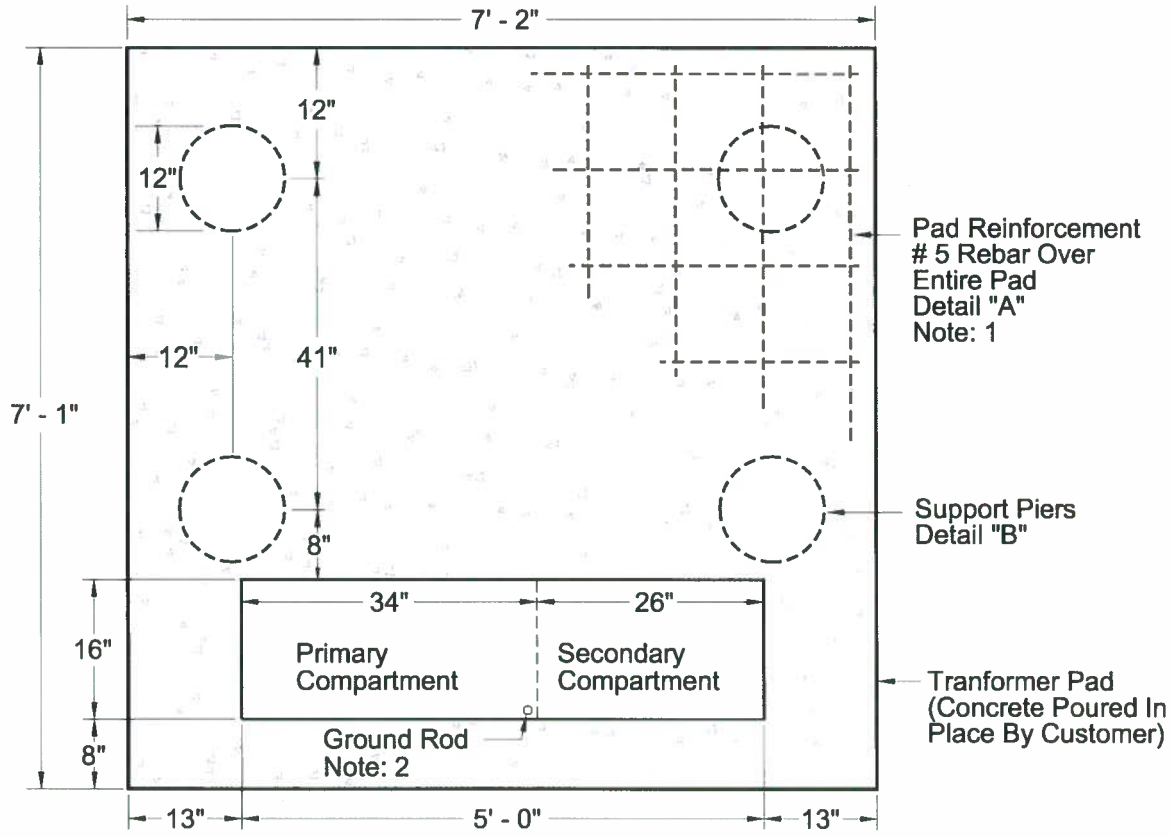
NOTES:

1. When the Metering Transformers are located in the Secondary Terminal Compartment of the Padmounted Transformer, this Conduit for the Metering Conductors must be run underground and must enter the Transformer Pad in the Conduit Window.
2. The Meter location is to be within 25 feet of the Transformer Pad location.
3. Upon request of AEP, the window will be filled with grout to prevent animals and snakes from entering the cabinet.

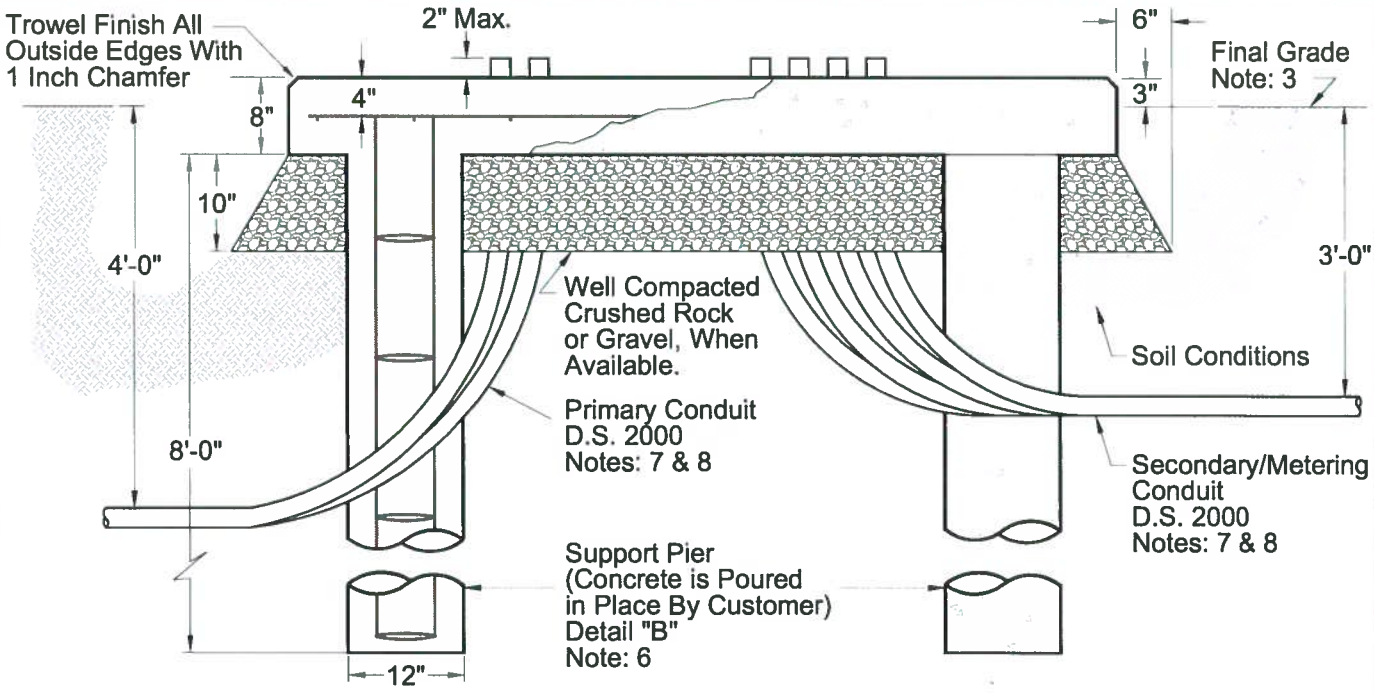
AEP TEXAS

Conduit Window Configuration - Three Phase Pad-Mounted Transformer

DATE:	Revised Date:	SCALE:	
04/30/2012	10/02/2013	None	Page 2 of 7



Top View



*** See Notes on Page 5 of 7**

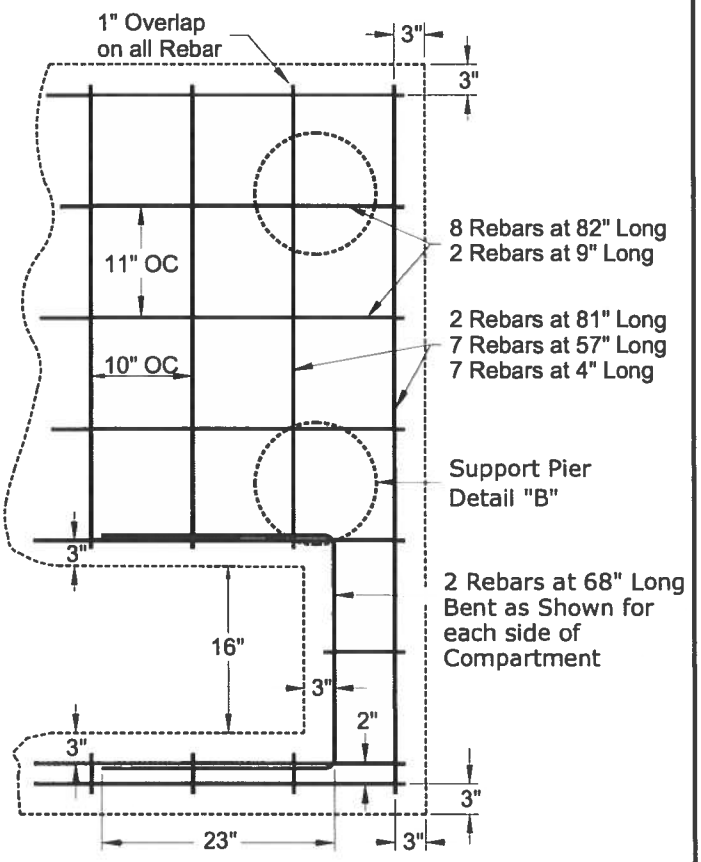
Front View

AEP TEXAS

Concrete Pad & Piers for Three Phase Pad-Mounted Transformer

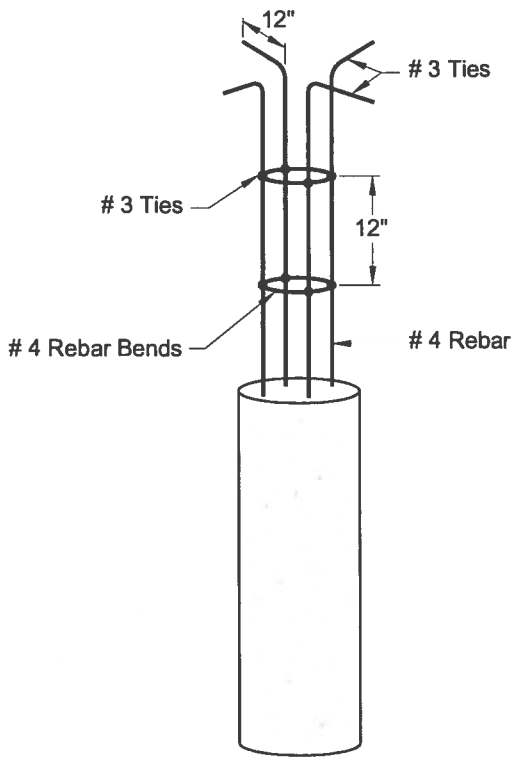
DATE:	Revised Date:	SCALE:	
04/30/2012	10/02/2013	None	Page 3 of 7

Top View



Detail "A"
Pad Rebar Installation

Front View



Detail "B"
Pier Rebar Installation

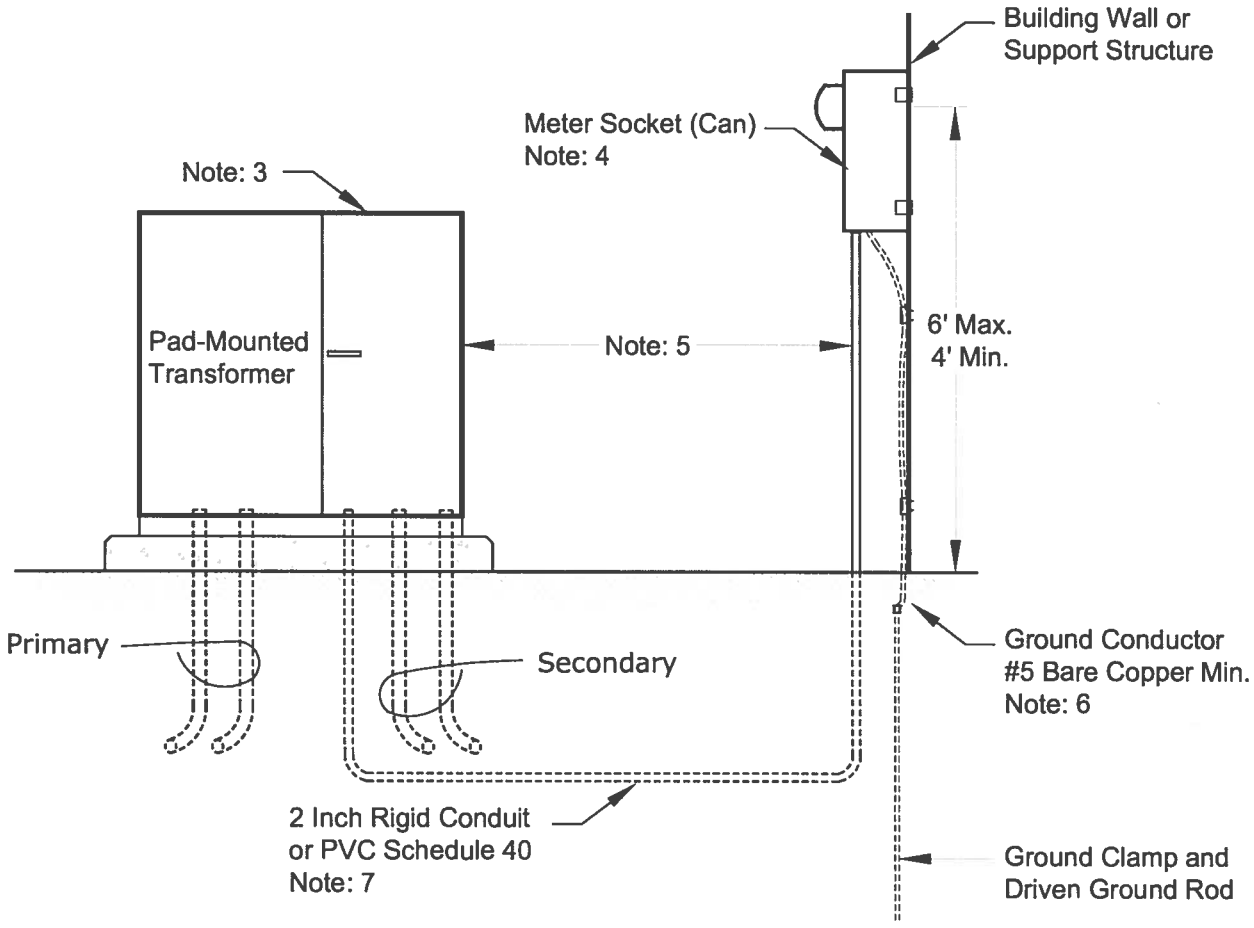
NOTES:

1. Slab Reinforcement shall be #5 Rebars On Center (O/C), spacing to follow Dimensions shown on the drawing with 4" Cover. Reinforcing Bars shall conform to ASTM A615 Grade 60. Concrete shall have a Minimum Compressive Strength of 4000 PSI after 28 Days.
2. For Ground Rod Placement, Refer to DS 2235 or 2236.
3. Final Grade shall be established before installation of Pad.
4. Concrete Pad will be installed with piers.
5. Piers shall be 12" Minimum in Diameter, 8 Feet Deep with 4 - #4 Verticle Rebar and #3 Ties at 12" On Center (O/C), and provide a Minimum 3" Cover. The #4 Bend Bars should be 12" Long in the Horizontal Direction.
6. Pier Rebar bent in the horizontal direction so that it may tie in with Pad Rebar.
7. The number and placement of Secondary Conduits to be determined by Engineering. Conduit may extend in any direction as required by the Customer.
8. Burial depth for Conduit is defined as the distance between Final Grade and the top of the Conduit. Unless otherwise designated by Engineering, Conduits shall be installed at a Burial Depth of not less than 4'-0" and Secondary Conduits shall be installed at a Burial Depth of not less than 3'-0". These initial depths are to allow for changes to the Surface Conditions. Local Agreements and Codes may require additional depth. If there are known extensive changes to the Final Grade such that their depths are not maintained, corrective action shall be taken.

AEP TEXAS

Concrete Pad and Piers for Three Phase Pad-Mounted Transformer 75 KVA -2500 KVA

Date:	Revised Date:	Scale:	
04/30/2012	10/02/2013	None	Page 4 of 7



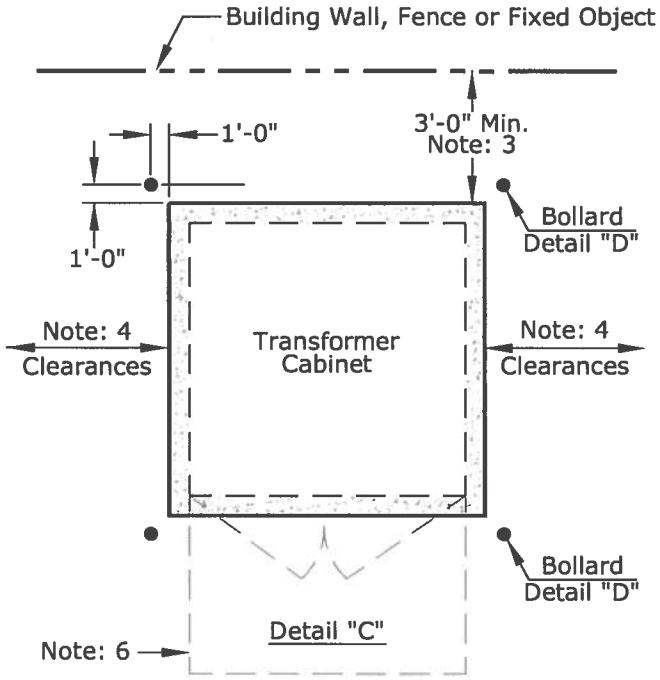
NOTES:

1. Instrument Transformers (CTS) are furnished and installed by Company prior to connection of customer service cables.
2. Customer shall provide NEMA type Terminal Lugs for customer owned service conductors where required. Power company to secure cable terminations. Stacking lugs may be required to accomodate the number of service conductors per transformer bushing.
3. This standard application for a single customer Three Phase Pad-Mounted Transformer.
4. Customer provides Meter Socket to be installed by customer or contractor in a Plumb Position at location, using removable corrosion resistant fasteners. All Meter Sockets installed in the Complany's service territory shall be of a type approved by the company and meet all requirements in construction and features. In addition, Meter Sockets purchased by the Customer shall be UL listed and labeled in accordance with National Electric Code.
5. Transformer Pad location and the location of conduits for Conductor/Meter Control Cable to be specified by AEP. The Meter location is to be within 25 feet of the Transformer Pad location. When the building is located at a distance greater then 25 feet from the Transformer Pad location, the Meter is to be mounted on a support structure at a location where the distance from the Transformer Pad location is not greater than 25 feet. For free standard Metering
6. The Meter Socket shall be grounded. The Meter Socket shall be bonded through a separate equipment-Grounding Conductor connected to the grounded service conductor (usually the neutral). In some jurisdictions the grounding of the Meter Socket will be supplemented with the use of a driven Ground Rod in addition to bonding to the Grounded Service Conductor.
7. Schedule 80 Rigid Conduit required for driveways and parking lots.

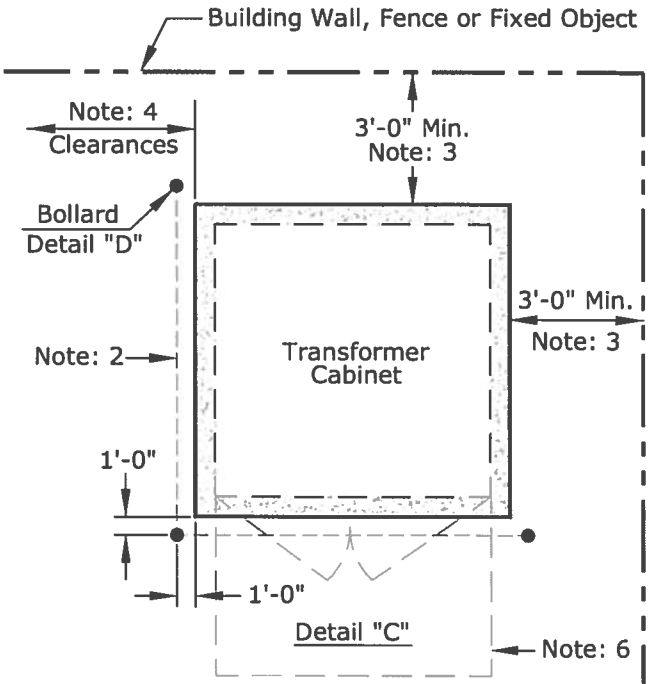
AEP TEXAS

Three Phase Pad-Mounted Transformer & Metering Installation

Date:	Revised Date:	Scale:	
04/30/2012	10/02/2013	None	Page 5 of 7



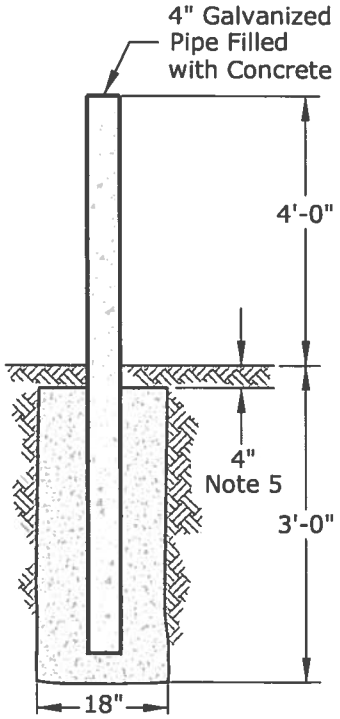
Four Bollards
Top View of Cabinet



Three Bollards
Top View of Cabinet

Notes:

1. Bollards shall be used where vehicular traffic may cause damage to the padmount, i.e. parking lots, loading areas, driveways, etc.
2. When additional protection is required, guy wire or rails may be installed between bollards.
3. The pad should be located 4'-0" from the building on the side where the metering equipment is located or the conduits enter the building to permit free spacing for conduit bends.
4. Doors, windows, window walls, fire escapes, entrances and ventilating ducts located at ground floor, and at multiple stories as well, should be avoided in the location of the pad. Avoid placing pad under building overhang such as wide eaves unless building is of fire proof construction.
   Recommended Minimum Lateral Clearances:
   Clearances to doors, windows, entrances and ventilating ducts - 5'-0"
   Clearance to fire escapes - 20'-0"
5. In non-paved areas use crushed stone or sod to provide for a four inch (4") covering over the concrete encircling the bollard.
6. Maintain clear area in front of padmount transformer doors at least as wide as the doors and 10 feet deep. Also, if padmount transformer has current limiting fuses at the side of live front cabinet, maintain adequate operating space for these as well.
7. Paint bollards "Safety Yellow" and install reflective safety tape.



Bollard Front View
Detail "D"

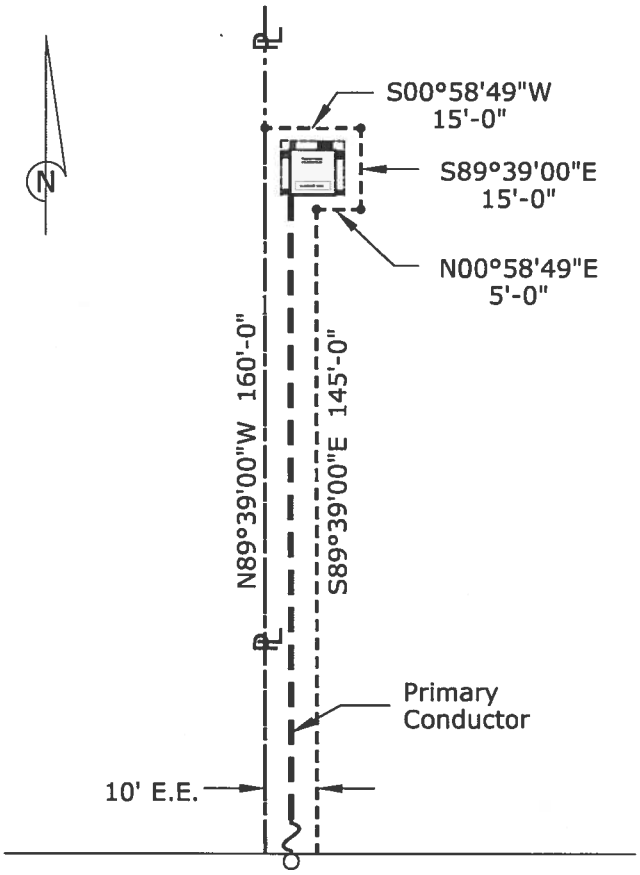
AEP TEXAS

Three PhaseTransformer Pad and Bollard Location

Date:	Revised Date:	Scale:	
04/30/2012	10/02/2013	None	Page 6 of 7

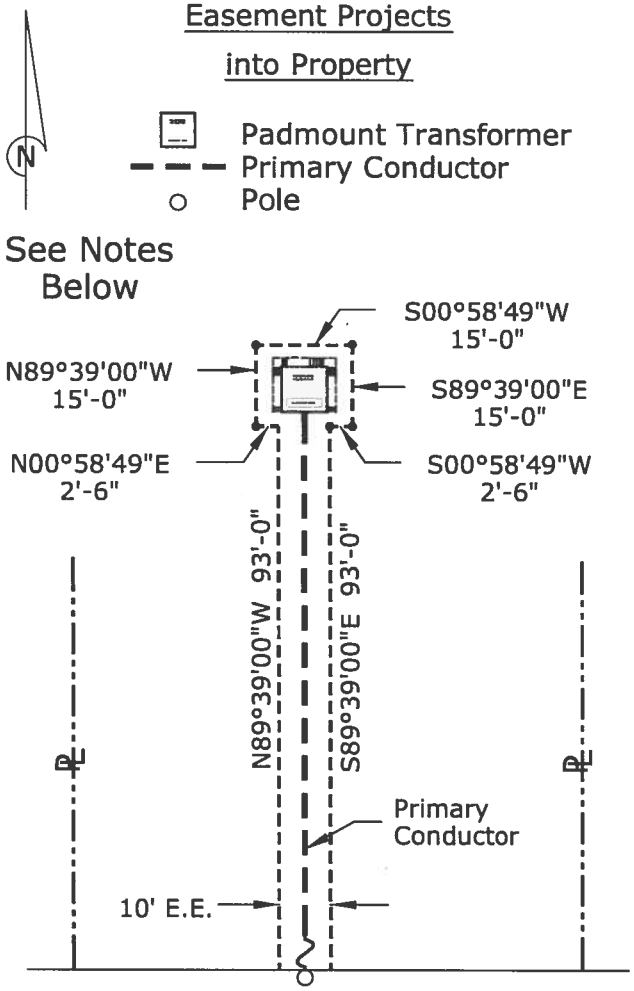
Standard Easement Width

Easement Parallel and Adjacent to Property Line



1st Street

Easement Projects into Property



Main Street

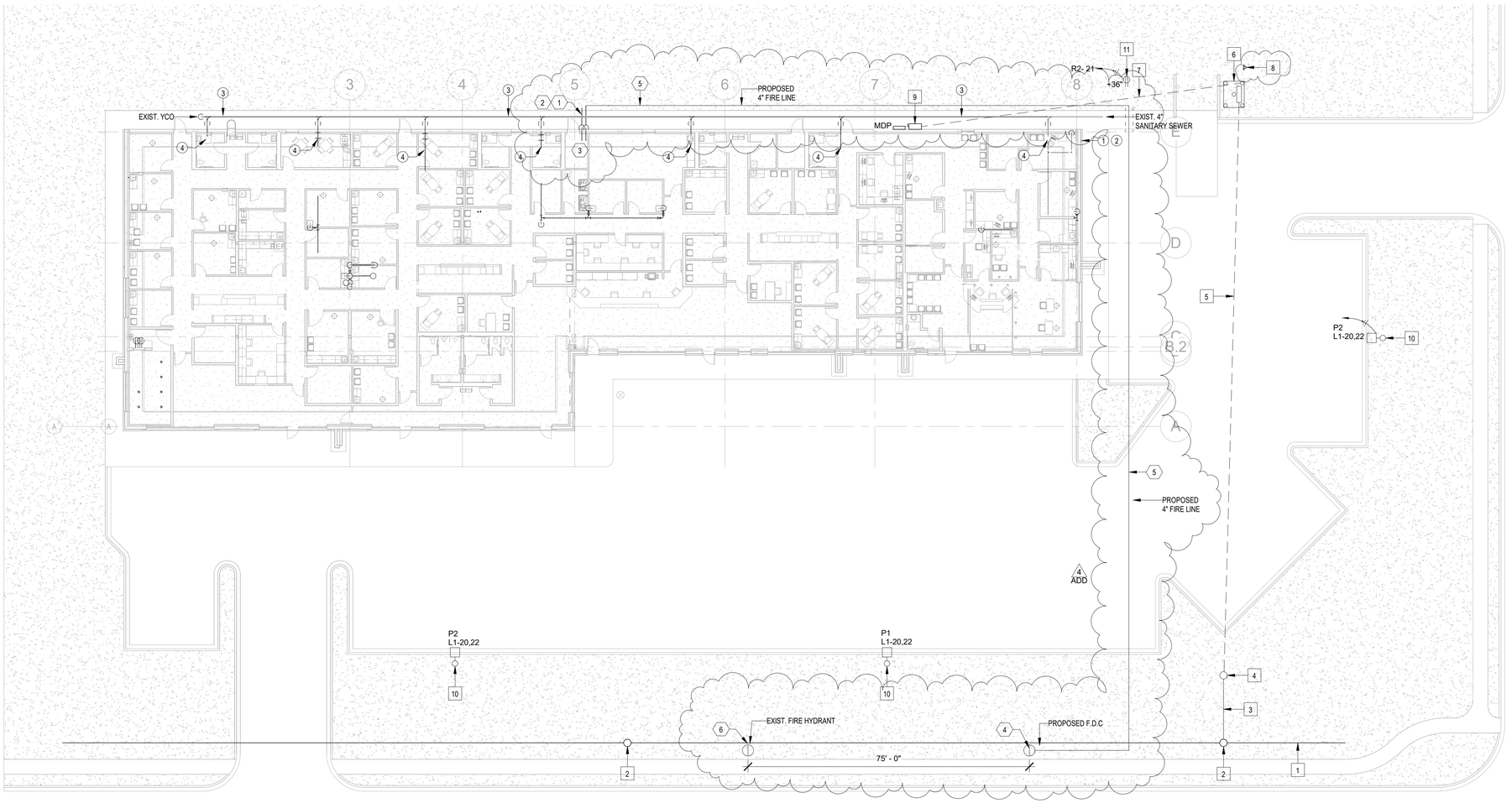
Notes:

1. Maintain clear area to front of Transformer Doors at least as wide as the doors and 10 feet deep.
2. Use Bollard where vehicles could be close to Transformer Pad, i.e., parking lots, loading areas, driveways, etc.
3. Minimum Easement width for an AEP Primary run is 10 feet.
4. Minimum Easement width for an AEP Three Phase Transformer Pad is 15 feet by 15 feet.
5. Easements above are required to be surveyed by Certified Surveyor; Metes & Bounds description of the Easement Area must accompany these.

AEP TEXAS

Three Phase Padmount - Easement Dimensions

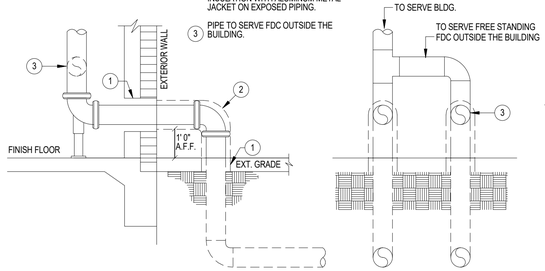
Date:	Revised Date:	Scale:	
04/30/2012	10/02/2013	None	Page 7 of 7



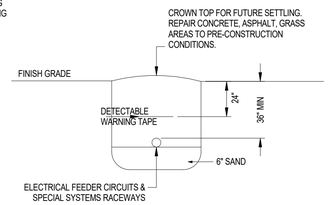
1 MEP Site Plan - Renovation
1/16" = 1'-0"

KEYED NOTES

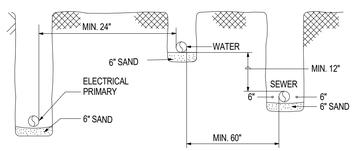
1. SLEEVE.
2. PROVIDE 1" CLOSED-CELL INSULATION WITH ALUMINUM METAL JACKET ON EXPOSED PIPING.
3. PIPE TO SERVE FDC OUTSIDE THE BUILDING.



02 FIRE RISER ENTRANCE DETAIL
SCALE : NOT TO SCALE



03 BURIAL DETAIL FOR ELECTRICAL RACEWAYS
SCALE : NONE



NOTES:
1. CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.
2. COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.
3. MAINTAIN A MINIMUM OF 60 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES OR SUPPORT WATER LINE ON SEPARATE SHELF A MINIMUM OF 12" ABOVE SEWER LINE.
4. MAINTAIN A MINIMUM OF 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND SEWER. MAINTAIN A MINIMUM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.

04 TRENCHING DETAIL
SCALE : NONE

GENERAL NOTES:

1. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
2. FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
3. COORDINATE ELECTRICAL AND PLUMBING WITH GENERAL CONSTRUCTION.
4. PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
5. FIELD VERIFY/SPOT EXACT LOCATIONS AND EXISTING CONDITIONS OF EXISTING PLUMBING, AND ELECTRICAL. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND WORKABLE SYSTEMS. SHOULD BIDDER FIND OMISSIONS OR DISCREPANCIES IN THE PLANS, BIDDER SHALL NOTIFY THE ENGINEER PRIOR TO THE BID DATE AND A WRITTEN CLARIFICATION WILL BE ISSUED.
6. DAMAGED ITEMS SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. CONTRACTORS ARE REQUIRED TO SEARCH AND INVESTIGATE FOR EXISTING UTILITIES BEFORE EXCAVATING.
7. ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
8. PROVIDE J-BOXES (POLYMER CONCRETE) AS REQUIRED FOR PULL WIRING.
9. ELECTRICAL WIRING SHALL NOT BE SPLICED BELOW GRADE.
10. PERFORM ALL WORK PER LATEST VERSION OF NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
11. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
12. CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
13. NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
14. COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
15. SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS, A/C ROOMS AND WALL LOUVER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
16. TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING PHASE.
17. CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
18. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
19. AFFIX ID TAGS TO ALL DIVISION 26 EQUIPMENT.
20. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
21. FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
22. ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
23. EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
24. WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED.
25. SLEEVE ALL EXTERIOR WALL PENETRATIONS.
26. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.

PLUMBING KEYED NOTES:

1. RETAIN AND RE-USE EXISTING 2" DOMESTIC WATER LINE AT THIS APPROXIMATE LOCATION. FIELD VERFIY EXACT LOCATION.
2. CONNECT NEW 2" DOMESTIC WATER LINE INTO EXISTING 2" WATER LINE AT THIS APPROXIMATE LOCATION.
3. RETAIN AND RE-USE EXISTING 4" SANITARY SEWER LINE AT THIS APPROXIMATE LOCATION. FIELD VERFIY EXACT LOCATION.
4. CONNECT NEW 4" SANITARY SEWER PIPING INTO EXISTING AT THIS APPROXIMATE LOCATION. SEE WASTE & VENT PLANS FOR MORE INFORMATION.

FIRE SUPPRESSION KEYED NOTES:

4 ADD

1. PROVIDE 4" FIRE SPRINKLER LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION. VERIFY SIZE OF FIRE SPRINKLER LINE BY MEANS OF CALCULATION AND COORDINATE WITH GENERAL CONTRACTOR.
2. MAIN FIRE SPRINKLER LINE SHALL ENTER THE BUILDING ABOVE GROUND AND THROUGH THE EXTERIOR WALL. REFER TO DETAIL ON THIS SHEET.
3. PROVIDE BACKFLOW PREVENTER ON RISER INSIDE FIRE RISER ROOM.
4. PROVIDE FREE STANDING FIRE DEPARTMENT CONNECTION. REFER TO DETAIL ON THIS SHEET.
5. PROVIDE 4" FIRE SPRINKLER LINE TO SERVE FREE STANDING FDC OUTSIDE THE BUILDING. VERIFY SIZE BY MEANS OF CALCULATION AND COORDINATE WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION AND REPAIR DETAILS OF EXISTING ASPHALT.
6. EXISTING FIRE HYDRANT AT THIS APPROXIMATE LOCATION.

ELECTRICAL KEYED NOTES:

1. EXISTING ELECTRIC UTILITY 3 PHASE OVERHEAD SERVICE LINES.
2. EXISTING ELECTRIC UTILITY POWER POLE.
3. NEW OVERHEAD UTILITY POWER LINE.
4. NEW ELECTRIC UTILITY POWER POLE WITH RISER DIP POLE.
5. PROVIDE NEW UNDERGROUND PRIMARY ELECTRIC CONDUITS WITH 2" RED CONCRETE. RE-USE PORTION OF EXISTING. SEE RISER DIAGRAM.
6. PROVIDE NEW ELECTRIC UTILITY PAD MOUNT TRANSFORMER ON EXISTING CONCRETE PAD.
7. PROVIDE NEW UNDERGROUND SECONDARY FEEDERS IN EXISTING RACEWAYS.
8. PROVIDE NEW ELECTRIC UTILITY SERVICE METER ON FREE STANDING RACK.
9. EXISTING BUILDING MAIN SWITCH DISCONNECT.
10. PROVIDE NEW POLE LIGHTS. SWITCH EXTERIOR POLE LIGHTS THROUGH RELAY PANEL. BRANCH CIRCUIT: 1" - 2#8 & #10G. SEE CORRESPONDING PANEL SCHEDULE.
11. CONNECT IRRIGATION CONTROLLER.

STATE OF TEXAS
RAY PEYNADO
125390
LICENSED PROFESSIONAL ENGINEER

STATE OF TEXAS
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UTRGV School of Medicine
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Boultinghouse Simpson Gates ARCHITECTS
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Project # 18v15
Owner
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
Enter address here

Issue Date	10/31/2018
ADDENDUM #4	02/04/2019

Renovation Site Plan

MEP1.01

ROOF MOUNTED DEDICATED OUTSIDE AIR UNIT SCHEDULE

MARK	O.A./ SUPPLY AIR CFM	SERVING	ESP (in. water)	ELECT. V-PH-HZ	MCA	MOCP	BLOWER HP	COOLING CONDITION EAT (DB/WB)	LAT (DB/WB)	AIR ON COND.	TCAP MBH	SCAP MBH	DEHUMIDIFICATION CONDITION EAT (DB/WB)	LAT (DB/WB)	AIR ON COND.	TCAP MBH	SCAP MBH	COND. REHEAT COIL- DEHUMID COND EAT (DB/WB)	TCAP MBH	LAT (DB/WB)	HEATING EAT (DB)	ELECTRIC TCAP KW	LAT (DB)	# COMP / STAGES	UNIT EER/ IEER AHRI	WEIGHT LBS	MANUFACTURER MODEL# DAIKIN	NOTES
DOAS-1	1,800	RTUS-1, 2	0.50	208-3-60	68.80	90.00	2.30	100.4/76.5	51.0/51.0	105	153.70	97.30	83.3/79.4	52.8/52.8	95	170.70	59.90	51.0/51.0	37.20	70.0/58.4	40.0	18	68.0	2 / INF	11/17.7	2312	DPS015A	ALL
DOAS-2	1,800	RTUS-2, 3, 4	0.50	208-3-60	68.80	90.00	2.30	100.4/76.5	51.0/51.0	105	153.70	97.30	83.3/79.4	52.8/52.8	95	170.70	59.90	51.0/51.0	37.20	70.0/58.4	40.0	18	68.0	2 / INF	11/17.7	2312	DPS015A	ALL

NOTES:

1. PROVIDE ROOF-MOUNTED PACKAGED UNITS WITH INTEGRAL AIR COOLED CONDENSERS DESIGNED FOR 100% OUTSIDE AIR APPLICATION.
2. PROVIDE MODULATING HOT GAS REHEAT SYSTEM AND DEHUMIDIFICATION CONTROLS TO ACHIEVE SCHEDULED LEAVING AIR CONDITIONS.
3. PROVIDE MINIMUM OF ONE INVERTER COMPRESSOR FOR FULL MODULATION OF CAPACITY AND ACCURATE LEAVING AIR TEMPERATURE CONTROL.
4. PROVIDE ALUMINUM FIN COPPER TUBE OR MICROCHANNEL CONDENSER COIL.
5. PROVIDE GALVANIZED FILTER FRAMES AND 304 STAINLESS STEEL DRAIN PANS.
6. PROVIDE CABINET WITH 1" R-7 (3-15 TONS) OR 2" R-13 (16+ TONS) DOUBLE WALL CONSTRUCTION WITH FOAM INSULATION.
7. FURNISH DIRECT DRIVE EVAPORATOR FAN, AND ECM MOTOR OR VFD AND NON-OVERLOADING MOTORS. PROVIDE TOTALLY ENCLOSED FAN MOTORS.
8. E-COATED EVAPORATOR, REHEAT, AND CONDENSER COILS TO MEET ASTM B117-90, ASTM D2247-92, AND ASTMD870-92 FOR 6,000 HRS SALT SPRAY, 1,000 HRS HUMIDITY IMMERSION RESISTANCE, AND 250 HRS WATER IMMERSION RESISTANCE.
9. APPROVED MFRS THAT DO NOT MEET SPECIFIED EFFICIENCIES SHALL INCLUDE A PERFORMANCE PENALTY, PAID TO OWNER.
   PERFORMANCE PENALTY OF $14/TON FOR EVERY 1/10 OF A POINT LOWER THAN SCHEDULED IEER BASED ON A STANDARD UNIT OF THE SAME CAPACITY AT AHRI CONDITIONS.
10. UNITS SHALL BE RATED IN ACCORDANCE TO AHRI 340/ 360.
11. ESP IS STRICTLY EXTERNAL STATIC PRESSURE AND IS IN ADDITION TO ANY FILTERS, COILS OR OTHER ACCESSORIES INCLUDED WITH THE MAU
12. PROVIDE SINGLE POINT OF ELECTRICAL. SAFETY DISCONNECT PROVIDED BY DIV. 26. COORDINATE WITH ELECTRICAL CONTRACTOR.
13. PROVIDE LOW AMBIENT CONTROL TO 35F.
14. PROVIDE FACTORY INSTALLED UNITARY CONTROLLER CAPABLE OF
    1) 100% OUTSIDE AIR CONTROL
    2) CONSTANT VOLUME SUPPLY AIR FLOW CONTROL.
    3) BACNET INTERFACE
    4) MODULATING REHEAT DEHUMIDIFICATION CONTROL
15. PROVIDE IBC 2012 COMPLIANT CURB AND ATTACHMENTS FROM UNIT TO CURB AND CURB TO STRUCTURE. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED DETAIL ANALYSIS OF:
    1) ATTACHMENT OF EQUIPMENT TO CURB.
    2) CURB TO STRUCTURE.
    3) CURB AND ATTACHMENT HARDWARE STRENGTH.
    REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS.
    EQUIPMENT OR CURB MANUFACTURER IS ALSO RESPONSIBLE FOR PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 1 AND 2 LISTED ABOVE.
    BOTH, THE ENGINEERED ANALYSIS AND THE ENGINEERED INSTALLATION DRAWINGS SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING AND PROJECT SITE AND STAMPED AND SEALED BY A TEXAS LICENSED ENGINEER.
16. SUBMITTALS WILL NOT BE APPROVED UNTIL ALL DOCUMENTATION LISTED ABOVE IS PROVIDED ACCURATELY.
17. PROVIDE COMBO 2"/4" FILTER RACK INTERAL TO THE UNIT WITH ONE SET OF 2" GALVANIZED FILTER FRAMES WITH MERV 8 FILTERS AND ONE SET OF 4" MERV 14 FILTERS. ADD 0.75" PRESSURE DROP FOR MERV 14 FILTERS.
18. PROVIDE INTERIOR COATING RATED AT 10,000HR ASTM B117.

ROOFTOP UNIT SCHEDULE

MARK	NOMINAL	SUPPLY	OA CFM	OA FROM	ESP (INCHES)	MIN. HP	FLA A	MCA A	MOCP A	ELECT. V-PH-HZ	AIR ON COND.	COOLING TOTAL BTUH	COOLING SENSIBLE BTUH	COOLING EAT DB/WB	COOLING LAT DB/WB	HEATING KW	HEATING STG.	HEATING ELECT. V-PH-HZ	MIN. EER/IEER	WEIGHT LB	NOTES	DAIKIN MODEL NUMBER
RTU-1	10	5000	1030	DOAS-1	1.5	8	49.4	49.4	60	208-3-60	100	116.5	106.1	75.0/63.0	55.6/55.1	-	-	208-3-60	12.4/19.3	2118	ALL	DPS010A
RTU-2	7	3350	770	DOAS-1	1.5	4	41.4	36.3	45	208-3-60	100	87.1	75.8	75.0/63.0	54.3/54.2	-	-	208-3-60	12.5/20.6	1968	ALL	DPS007A
RTU-3	10	4200	725	DOAS-2	1.5	4	49.4	44.7	60	208-3-60	100	113.7	95.8	75.0/63.0	54.1/53.8	-	-	208-3-60	12.4/19.3	2118	ALL	DPS010A
RTU-4	5	2315	550	DOAS-2	1.5	4	27.1	27.1	35	208-3-60	100	56.5	50.8	75.0/63.0	54.9/54.7	-	-	208-3-60	13/ 18.5 SEER	1281	ALL	DPS005A
RTU-5	7	3100	525	DOAS-2	1.5	4	36.3	36.3	45	208-3-60	100	86.1	72.5	75.0/63.0	53.6/53.5	-	-	208-3-60	11.9/19.8	1868	ALL	DPS007A

NOTES:

1. PROVIDE ROOF CURBS WITH VERTICAL DUCT CONNECTION, COPPER CONDENSATE TRAP, EXV, TOTALLY ENCLOSED FAN MOTORS, SS COIL CASINGS AND FREEZE-STAT OPTIONS.
2. PROVIDE CABINET WITH 1" R-7 (3-15 TONS) OR 2" R-13 (16+ TONS) DOUBLE WALL CONSTRUCTION WITH FOAM INSULATION, AND HINGED ACCESS DOORS.
3. PROVIDE HOODED/LOUVERED HAIL GUARDS OR ANGLED CONDENSER COILS WITH WIRE GRILLES, 304 STAINLESS STEEL DRAIN PANS, GALVANIZED FILTER FRAMES, E-COATED CONDENSER COILS.
4. DO NOT PROVIDE OUTSIDE AIR HOOD OR OPENINGS.
5. PROVIDE INVERTER COMPRESSOR FOR FULL MODULATION OF CAPACITY AND ACCURATE LEAVING AIR TEMPERATURE CONTROL.
6. PROVIDE DIRECT DRIVE EVAPORATOR FAN, AND ECM MOTOR OR VFD TO MODULATE FAN SPEED TO MEET STATIC PRESSURE SETPOINT. DUCT STATIC PRESSURE SENSOR BY RTU MFR. COORDINATE INSTALLATION WITH DDC.
7. PROVIDE FACTORY-INSTALLED CONVENIENCE ELECTRICAL OUTLETS AT INDICATED RTUS. SEE MECHANICAL ROOF PLANS FOR LOCATIONS. DIV. 26 TO PROVIDE WIRING AND POWER FOR THE OUTLETS. COORDINATE WITH ELECTRICAL CONTRACTOR.
8. EQUIPMENT MFR, MECHANICAL AND DDC CONTRACTORS SHALL COORDINATE PROVISION AND INSTALLATION OF SENSORS AND SMOKE DETECTORS.
9. APPROVED MFRS THAT DO NOT MEET SPECIFIED EFFICIENCIES SHALL INCLUDE A PERFORMANCE PENALTY, PAID TO OWNER.
   PERFORMANCE PENALTY OF $14/TON FOR EVERY 1/10 OF A POINT LOWER THAN SCHEDULED IEER BASED ON A STANDARD UNIT OF THE SAME CAPACITY AT AHRI CONDITIONS.
10. PROVIDE FACTORY MOUNTED MICROPROCESSOR CONTROLLER, AND BACNET INTERFACE WITH DDC.
11. PROVIDE IBC 2015 COMPLIANT CURB AND ATTACHMENTS FROM UNIT TO CURB AND CURB TO STRUCTURE. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED DETAIL ANALYSIS OF:
    1) ATTACHMENT OF EQUIPMENT TO CURB.
    2) CURB TO STRUCTURE.
    3) CURB AND ATTACHMENT HARDWARE STRENGTH.
    REFER TO STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS.
    EQUIPMENT OR CURB MANUFACTURER IS ALSO RESPONSIBLE FOR PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 1 AND 2 LISTED ABOVE.
    BOTH, THE ENGINEERED ANALYSIS AND THE ENGINEERED INSTALLATION DRAWINGS SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING AND PROJECT SITE AND STAMPED AND SEALED BY A TEXAS LICENSED ENGINEER.
12. SUBMITTALS WILL NOT BE APPROVED UNTIL ALL DOCUMENTATION LISTED ABOVE IS PROVIDED ACCURATELY.
13. PROVIDE COMBO 2"/4" FILTER RACK INTERAL TO THE UNIT WITH ONE SET OF 2" GALVANIZED FILTER FRAMES WITH MERV 8 FILTERS AND ONE SET OF 4" MERV 14 FILTERS. ADD 0.75" PRESSURE DROP FOR MERV 14 FILTERS.
14. PROVIDE FACTORY E-COATING OF CONDENSER COILS WITH MINIMUM 6,000 ASTM B117 SALT SPRAY RATING.

4 ADD.#4

LOUVER SCHEDULE

MARK	SERVES	CFM RANGE	FACE SIZE (W X H)	MIN. FREE AREA (FT2)	RUSKIN MODEL NUMBER	NOTES
L-1	EF-1, EF-2, EF-3, EF-4, EF5, EF-6, EF-7	1125	36 X 24	2.37	EME520MD	ALL
L-2	EF-8, EF-9, EF-11, EF-12	500	36 X 18	1.63	EME520MD	ALL
L-3	EF-10, EF-13, EF-14, EF-15, EF-16, EF-17	550	36 X 18	1.63	EME520MD	ALL

NOTES:

1. PRIOR TO ORDERING, COORDINATE LOUVER FINISH AND EXACT FACE SIZE WITH ARCHITECT.
2. PROVIDE STAINLESS STEEL BIRD SCREEN AND HARDWARE.
3. PROVIDE FACTORY APPLIED KYNAR 500 FINISH.
4. PROVIDE WITH TDI PRODUCT EVALUATION REPORT.

VAV BOX SCHEDULE

Mark	Actual Supply Air Flow	MIN. COOLING FLOW (%)	ELECTRICALVI/P/H	Electric Heat KW	ELECTRICAL HEAT STEPS	MANUFACTURER	TITUS MODEL	MODEL SIZE	NOTES
VAV-1-1	430 CFM	30%	208 V / 3 / 60 Hz	2.5 kW	2	Titus	DESV	08	ALL
VAV-1-2	885 CFM	30%	208 V / 3 / 60 Hz	5.0 kW	3	Titus	DESV	08	ALL
VAV-1-3	745 CFM	30%	208 V / 3 / 60 Hz	4.5 kW	3	Titus	DESV	12	ALL
VAV-1-4	300 CFM	30%	208 V / 3 / 60 Hz	2.0 kW	1	Titus	DESV	08	ALL
VAV-1-5	375 CFM	30%	208 V / 3 / 60 Hz	2.5 kW	2	Titus	DESV	08	ALL
VAV-1-6	350 CFM	30%	208 V / 3 / 60 Hz	2.0 kW	1	Titus	DESV	08	ALL
VAV-1-7	815 CFM	30%	208 V / 3 / 60 Hz	4.5 kW	3	Titus	DESV	14	ALL
VAV-1-8	1100 CFM	30%	208 V / 3 / 60 Hz	6.5 kW	3	Titus	DESV	14	ALL
VAV-2-1	485 CFM	30%	208 V / 3 / 60 Hz	3.0 kW	2	Titus	DESV	08	ALL
VAV-2-2	690 CFM	30%	208 V / 3 / 60 Hz	4.0 kW	2	Titus	DESV	12	ALL
VAV-2-3	1015 CFM	30%	208 V / 3 / 60 Hz	6.0 kW	3	Titus	DESV	14	ALL
VAV-2-4	785 CFM	30%	208 V / 3 / 60 Hz	4.5 kW	3	Titus	DESV	12	ALL
VAV-2-5	375 CFM	30%	208 V / 3 / 60 Hz	2.5 kW	2	Titus	DESV	08	ALL
VAV-3-1	1340 CFM	30%	208 V / 3 / 60 Hz	7.5 kW	3	Titus	DESV	16	ALL
VAV-3-2	1915 CFM	30%	208 V / 3 / 60 Hz	10.5 kW	3	Titus	DESV	16	ALL
VAV-3-3	450 CFM	30%	208 V / 3 / 60 Hz	2.5 kW	2	Titus	DESV	08	ALL
VAV-3-4	450 CFM	30%	208 V / 3 / 60 Hz	2.5 kW	2	Titus	DESV	08	ALL
VAV-4-1	700 CFM	30%	208 V / 3 / 60 Hz	4.0 kW	2	Titus	DESV	12	ALL
VAV-4-2	625 CFM	30%	208 V / 3 / 60 Hz	3.5 kW	2	Titus	DESV	12	ALL
VAV-4-3	945 CFM	30%	208 V / 3 / 60 Hz	5.5 kW	3	Titus	DESV	14	ALL
VAV-5-1	875 CFM	30%	208 V / 3 / 60 Hz	5.0 kW	3	Titus	DESV	12	ALL
VAV-5-2	340 CFM	30%	208 V / 3 / 60 Hz	2.0 kW	1	Titus	DESV	10	ALL
VAV-5-3	705 CFM	30%	208 V / 3 / 60 Hz	4.0 kW	2	Titus	DESV	12	ALL
VAV-5-4	670 CFM	30%	208 V / 3 / 60 Hz	4.0 kW	2	Titus	DESV	12	ALL
VAV-5-5	510 CFM	30%	208 V / 3 / 60 Hz	3.0 kW	2	Titus	DESV	08	ALL

NOTES:

1. COORDINATE WITH DRAWINGS FOR RIGHT OR LEFT-HAND CASING CONFIGURATION PRIOR TO ORDERING.
2. PROVIDE VAV TERMINAL UNIT WITH 24V TRANSFORMER AND FUSIBLE INTEGRAL DISCONNECT.
3. COORDINATE INLET AND OUTLET DIMENSIONS WITH PLANS. PROVIDE "RECTANGULAR TO ROUND" TRANSITIONS FOR INLET CONNECTIONS AS SHOWN ON DRAWINGS.
4. FURNISH VAV BOXES LESS THAN 24" DEEP.
5. FURNISH WITH SLIP AND DRIVE CONNECTIONS.
6. PROVIDE SOUND ATTENUATOR INTEGRAL TO ELECTRIC HEATING COIL SECTION.
7. MINIMUM AIR FLOW SHALL BE 50% DURING HEATING MODE.
8. PROVIDE TITUS 1" ECO SHIELD WITH FOIL FACING OR EQUAL.
9. PROVIDE AEROCROSS INLET AIR VELOCITY SENSOR OR EQUAL.

MINI SPLIT AIR COOLED CONDENSING UNIT SCHEDULE

MARK	SERVING	TOTAL BTU/H	COND DB	ELECTRIC V-PH-HZ	SEER ARI CONDITIONS	COMPR STAGES	MCA	MOCP	WEGHT (LBS)	NOTES	MANUFACTURER MODEL NUMBER
ACCU-1	WAC-1	18,000	100	208-1-60	18	VAR	15	20	93	ALL	DAIKIN RKN18KEVJU

NOTES:

1. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL". SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS. AND SUBSTITUTION PROCEDURES.
2. INSULATE REFRIGERANT LINES AS PER SPECIFICATIONS. PROVIDE ALUMINUM METAL JACKETING AROUND INSULATION FOR ALL EXTERIOR EXPOSED LINES.
3. EER SHALL EXCEED IECC MINIMUM EFFICIENCY AT ARI CONDITIONS.
4. PROVIDE EVAPORATOR DEFROST CONTROLLER FOR MINIMUM CIRCUIT.
5. SIGHT GLASSES, FILTER DRYERS, AND FIELD SUPPLIED EXPANSION VALVES ARE NOT TO BE USED ON DAIKIN EQUIPMENT.
6. PROVIDE INVERTER DRIVEN COMPRESSOR FOR IMPROVED HUMIDITY CONTROL.
7. SAFETY DISCONNECT TO BE PROVIDED BY DIV. 26. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.
8. PROVIDE ATTACHMENT OF ACCU TO ROOF STRUCTURE CAPABLE OF WITHSTANDING THE LOCAL WIND PRESSURES AS PER IBC. PROVIDE CALCULATIONS AND ATTACHMENT INSTALLATION INSTRUCTIONS SEALED BY A LICENSED ENGINEER. REFER TO SPECIFICATIONS FOR MORE INFORMATION ON THIS DELEGATED DESIGN.

MINI SPLIT WALL MOUNT EVAPORATOR SCHEDULE

MARK	MATCHED TO	LOCATION	TOTAL CFM MIN./MAX.	ESP IN WG	MCA	MOCP	ELECT. V-P-H	COOLING TOTAL BTU/H	COOLING EAT DB/WB	COOLING LAT DB/WB	WT (LBS)	NOTES	MANUFACTURER & MODEL NUMBER
WAC-1	ACCU-1	SEE PLAN	403/572	0.10	-	-	208-1-60	18000	80/67	55/55	26.5	ALL	DAIKIN FTXN18KVJU

NOTES:

1. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL". SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS. AND SUBSTITUTION PROCEDURES.
2. FILTER SECTION SHALL BE WIRE FRAMED SECTION.
3. PROVIDE MOUNTING BRACKET
4. PROVIDE WALL MOUNTED AND WIRED 7-DAY PROGRAMMABLE T-STAT IN LIEU OF WIRELESS REMOTE.
5. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.
6. PROVIDE FACTORY SUPPLIED CONDENSATE PUMP.

EXHAUST FAN SCHEDULE

MARK	ROOM SERVING	Specific Product Description	ELECTRICAL V/P/H	Config Total Air Flow	Motor Power	Config Total Static Pressure	Inlet Sones	MANUFACTURER & MODEL NUMBER	Unit Weight	Notes	CONTROL NOTES
EF-1	PATIENT RR	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	75 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-2	STAFF RR	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	75 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-3	CUSTODIAN	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	75 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-4	STORAGE	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	50 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-5	SHARED PROCEDURE	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	375 CFM	350 W	0.40 in-wg	3	Greenheck SP-A700	36	ALL	A
EF-6	SHARED PROCEDURE	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	375 CFM	350 W	0.40 in-wg	3	Greenheck SP-A700	36	ALL	A
EF-7	SOILED UTILITY	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	100 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-8	STAFF RR	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	75 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-9	STAFF RR	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	75 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-10	SHARED LAB	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	100 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-11	MEN'S RR	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	175 CFM	135 W	0.40 in-wg	3	Greenheck SP-A700	33	ALL	A
EF-12	WOMEN'S RR	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	175 CFM	135 W	0.40 in-wg	3	Greenheck SP-A700	33	ALL	A
EF-13	SHARED INJECTION	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	150 CFM	135 W	0.40 in-wg	3	Greenheck SP-A390	33	ALL	A
EF-14	PATIENT RR	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	75 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-15	CUSTODIAN	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	75 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-16	PATIENT RR	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	75 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A
EF-17	STAFF RR	Ceiling Exhaust Fan	115 V / 1 / 60 Hz	75 CFM	128 W	0.40 in-wg	2	Greenheck SP-B150	19	ALL	A

NOTES

1. PROVIDE FACTORY MOUNTED DISCONNECT.
2. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL." REFER TO SPECIFICATIONS.
3. PROVIDE FIELD-INSTALLED FAN SPEED CONTROLLER. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
4. PROVIDE FAN WITH ALL ALUMINUM BACKDRAFT DAMPER.
5. PROVIDE DELUXE ALUMINUM GRILLE.
6. PROVIDE SPRING TYPE VIBRATION ISOLATORS FROM MANUFACTURER.

CONTROL NOTES:

A. PROVIDE DDC START/STOP POINTS. REFER TO SEQUENCES OF OPERATIONS.

AIR DEVICE & DIFFUSER SCHEDULE

SUPPLY AIR DIFFUSER (SD-1)

TITUS OMNI-AA, NC < 20 — DESCRIPTION: ALUMINUM SQUARE CEILING DIFFUSER, BORDER TYPE 3, COLOR WHITE WITH ROUND NECK AND FULL FACE

CLG. MODULE SIZE INCHES	FACE SIZE INCHES	ROUND NECK SIZE	FLEX DUCT SIZE	DIFFUSER DIFFUSION PATTERN & CFM	NOTES
24 X 24	24 X 24	TO MATCH NC CRITERIA	SEE PLAN	SD1-CFM	1-4,6

SUPPLY AIR GRILLE (SD-2) SIDE WALL

TITUS 301FL, NC < 20 — DESCRIPTION: AEROBLADE, ALUMINUM, DOUBLE DEFLECTION DIFFUSER, BORDER TYPE 1 (SURFACE MOUNT), STATIC PRESSURE: < 0.05" W.G.

NOMINAL DUCT SIZE INCHES (INLET)	FACE SIZE INCHES (INCLUDING FRAME)	DIFFUSER DIFFUSION PATTERN & CFM	NOTES
18 X 6	INLET SIZE PLUS 1-3/4"	SD2-CFM	1-4,6,8

SUPPLY AIR DIFFUSER (SD-3) SIDE WALL

TITUS ML-39, NC < 17 — DESCRIPTION: HIGH PERFORMANCE, LINEAR SLOT DIFFUSER. SEE PLAN FOR LENGTH.

CFM RANGE	# SLOTS	SIZE OF SLOTS INCHES	(ACTIVE SECTION) PLENUM LENGTH INCHES	DIFFUSER DIFFUSION PATTERN & CFM	NOTES
0-350	2	1	48"	SD3-CFM	1, 4, 6, 7, 9

SUPPLY AIR DIFFUSER (SD-4) SIDE WALL

TITUS ML-39, NC < 17 — DESCRIPTION: HIGH PERFORMANCE, LINEAR SLOT DIFFUSER. SEE PLAN FOR LENGTH.

CFM RANGE	# SLOTS	SIZE OF SLOTS INCHES	(ACTIVE SECTION) PLENUM LENGTH INCHES	DIFFUSER DIFFUSION PATTERN & CFM	NOTES
0-200	2	1	36"	SD4-CFM	1, 4, 6, 7, 9

RETURN AND TRANSFER AIR GRILLE (RG-1, TG-1)

TITUS 50F, NC < 20 — DESCRIPTION: ALUMINUM GRID EGGCRATE RETURN GRILLE WITH BORDER TYPE 3 (LAY-IN) OR BORDER TYP 1 (SURFACE MOUNT).

CFM RANGE	CLG. MODULE SIZE INCHES	NOMINAL DUCT SIZE INCHES (INLET)	DIFFUSER DIFFUSION PATTERN & CFM	NOTES
0 - 1600	24 X 24	18 X 18	RG1-CFM (RETURN AIR GRILLES ONLY)	1,4,6
0 - 1600	24 X 24	18 X 18	TG1-CFM (TRANSFER AIR GRILLES ONLY)	1,4,6

RETURN AIR GRILLE (RG-2)

TITUS 50F, NC < 20 — DESCRIPTION: ALUMINUM GRID EGGCRATE RETURN GRILLE WITH BORDER TYPE 3 (LAY-IN) OR BORDER TYP 1 (SURFACE MOUNT).

CFM RANGE	CLG. MODULE SIZE INCHES	NOMINAL DUCT SIZE INCHES (INLET)	DIFFUSER DIFFUSION PATTERN & CFM	NOTES
0 - 400	24 X 12	20 X 8	RG2-CFM (RETURN AIR GRILLES ONLY)	1,4,6

NOTES:

1. PROVIDE MANUFACTURER'S STANDARD BAKED WHITE ENAMEL FINISH.
2. PROVIDE FULL SIZE BACK PAN WITH DUCT ADAPTER.
3. INSULATE BACK PAN ON ALL SUPPLY AIR DIFFUSERS AND GRILLES.
4. PROVIDE MOUNTING FRAME TYPE COMPATIBLE WITH SCHEDULED CEILING OR WALL (SURFACE OR LAY-IN).
5. PROVIDE BALANCING DAMPER ON ALL EXHAUST GRILLES.
6. AIR DEVICES SHALL MATCH ARCHITECTURAL FINISH. COORDINATE COLOR WITH ARCHITECT.
7. PROVIDE BORDER TYPE 15, WITH CONCEALED FASTENING.
8. PROVIDE NECK MOUNTED OPPOSED BLADE DAMPER.
9. PROVIDE BORDER TYPE 9A, WITH FLANGE BORDER.

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Project # 18v15
Owner
UTRGV - SCHOOL OF MEDICINE - JACKSON RD.
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Issue Date	10/31/2018
ADDENDUM #4	02/04/2019

Mechanical Schedules

M5.01