

Aurora Dialysis Center Upgrades
at
1411 South Potomac Street, Suite 100
Aurora, Colorado 80012



2000 16th Street, Level 12
Denver, Colorado 80202

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY APPLY TO THIS SET OF DRAWINGS.

ACT	ADJUSTABLE
ADJ	ADJUSTABLE
ALUM	ALUMINUM
APPROX	APPROXIMATE
BD	BOARD
CLG	CORNER GUARD
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CPT	CARPET
CT	CERAMIC TILE
DISP	DISPENSER
DN	DOWN
EDF	ELECTRIC DRINKING FOUNTAIN
EU	EXPANSION JOINT
ELEV. EL	ELEVATION
EQ	EQUAL
EQUIP. EQ	EQUIPMENT
EXIST. EX	EXISTING
FAC	FACTORY
FEC	FIRE EXTINGUISHER CABINET
FURN	FURNITURE
FRP	FIBERGLASS REINFORCED PANEL
FLUR	FURNISHED
GYP	GYPSONUM
HW	HARDWARE
HR	HOLLOW METAL
HT	HEIGHT
INCAN	INCANDESCENT
INSUL	INSULATION
KS	KNEE SPACE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL. MET	METAL
NC	NURSE CALL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFI	OWNER FURNISHED
PART BD	PARTICLE BOARD
PL. PLAS LAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PT. P	PAINT
R	RISK
RCP	REFLECTED CEILING PLAN
REFL	REFLECTED
RO	ROUGH OPENING
S	SINGLE
SAC	SUSPENDED ACOUSTICAL CEILING
SC	SOLID CORE
STRUCT	STRUCTURAL
STL	STEEL
SUSP	SUSPENDED
SV	SHEET VINYL
T	TREAD
TEMP	TEMPERED
TILE	TILE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
WD	WOOD
WPP	WALL PROTECTION PANEL

JOB SPECIFIC NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE BEGINNING WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY IN WRITING BEFORE WORK BEGINS.
2. CAREFULLY EXAMINE THE CONSTRUCTION SITE TO DETERMINE THE EXTENT OF THE WORK AND THE EXISTING CONDITIONS. NO EXTRA PAYMENTS WILL BE ALLOWED FOR CLAIMS FOR ADDITIONAL WORK THAT COULD HAVE BEEN DETERMINED BY SUCH INSPECTION.
3. CHECK AND VERIFY DOCUMENTS AND FIELD CONDITIONS FOR ACCURACY, CONFIRMING THAT EXISTING CONDITIONS ARE AS DOCUMENTED BEFORE BEGINNING CONSTRUCTION. IF ANY QUESTIONS OR CONCERNS ARISE, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT BEFORE PROCEEDING.
4. ALL WORK SHALL BE PERFORMED BY SKILLED AND QUALIFIED WORKMEN FOLLOWING THE BEST AND ESTABLISHED PRACTICES OF THE TRADES INVOLVED USING PUBLISHED TRADE ASSOCIATION STANDARDS AND GUIDELINES.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK BETWEEN THE TRADES AND FOR THE PROPER SCHEDULING OF WORK AND TRADES ON THE JOB.
6. ALL MATERIALS SHALL BE NEW, UNUSED, AND OF THE HIGHEST QUALITY IN EVERY RESPECT UNLESS OTHERWISE NOTED. MANUFACTURED MATERIALS AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDED INSTRUCTIONS.
7. ALL WORK SHALL BE PERFORMED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. SAFETY PRECAUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. GOVERNING CODES AND ORDINANCES SHALL APPLY.
9. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A CLEAN PROJECT, FREE FROM TRASH AND DEBRIS. FLOORS SHALL BE KEPT CLEAN AND SWEEPED. ADJACENT WORK SHALL BE PROTECTED FROM ONGOING WORK, DAMAGE, OVERSPRAY, ETC. ALL FIXTURES, EQUIPMENT AND FINISHES SHALL BE LEFT CLEAN AND READY FOR OCCUPANCY. EXISTING WORK SHALL BE KEPT PROTECTED FROM NEW CONSTRUCTION. ANY DAMAGE TO EXISTING CONDITIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT AND/OR APPLIANCES SPECIFIED UNLESS OTHERWISE NOTED. OWNER SUPPLIED EQUIPMENT SHALL BE INSTALLED BY CONTRACTOR. CONTRACTOR SHALL VERIFY ALL TOUGH DIMENSIONS OF ALL EQUIPMENT BEFORE FABRICATION OF ANY ADJACENT WORK.
11. PROVIDE BLOCKING BEHIND ALL WALL MOUNTED DOOR STOPS, RESTROOM ACCESSORIES, MILLWORK, ETC., TO PROVIDE PROPER AND STRONG ATTACHMENT.
12. SUBMIT SHOP DRAWINGS ON ALL SPECIFIED ITEMS FOR ARCHITECTS APPROVAL BEFORE FABRICATION.
13. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL EXIT SIGNS AS REQUIRED BY LOCAL CODES.
14. ALL DOORS SHALL CONFORM TO THE IBC CHAPTER 10.
15. ALL WORK SHALL CONFORM TO THE CURRENT IBC AS APPROVED BY THE STATE AND ALL LOCAL CODES AND ORDINANCES.
16. EXITS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE DURING NORMAL BUSINESS HOURS.
17. ALL INTERIOR FINISHES SHALL COMPLY WITH IBC TABLE 803.4 FOR ALL FLAME SPREAD CLASSIFICATIONS.
18. ANY UTILITIES IN THE WAY OF NEW CONSTRUCTION SHALL BE REMOVED, RELOCATED OR REPLACED AS DIRECTED. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
19. CONTRACTOR TO HAUL OFF AND LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS OFF-SITE.
20. ALL GLASS SUBJECT TO HUMAN IMPACT SHALL CONFORM TO THE STANDARD SET FORTH BY CHAPTER 24 OF THE INTERNATIONAL BUILDING CODE.
21. PATCH AND FILL ALL PENETRATIONS AND/OR OPENINGS THROUGH WALLS AND ROOFS.
22. PROVIDE SUPPORT FOR ALL PIPES, CONDUITS, DUCTWORK, ETC. IN ACCORDANCE WITH CURRENT CODES. ELECTRICAL CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC.
23. NEW PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PACKED SOLID WITH APPROVED MATERIALS AND METHODS MEETING THE STATE AND ALL LOCAL CODES AND ORDINANCES.
24. EXTEND FINISHES BEHIND CABINETS AND SHELVES.
25. CLEAN AND PATCH HOLES IN SURFACES TO RECEIVE NEW FLOOR COVERING, BASE, CEILING TILE OR PAINT FINISH.
26. PROVIDE SURFACE TREATMENT OR PREPARATION AS NEEDED ON WALLS, SUCH AS PAINTED WALLS, PRIOR TO RECEIVING NEW FINISH.
27. THE GENERAL CONTRACTOR SHALL PAY FOR ALL BUILDING FEES AND SECURE ALL NECESSARY PERMITS FOR PROPER COMPLETION OF THE WORK.
28. IF ASBESTOS OR OTHER HAZARDOUS MATERIAL IS DISCOVERED DURING CONSTRUCTION, NOTIFY THE OWNER IMMEDIATELY FOR ACTION, HANDLING AND DISPOSAL OF MATERIAL. NO FURTHER WORK SHALL BE DONE IN THE IMMEDIATE AREA IN QUESTION. HAZARDOUS MATERIALS, IF ENCOUNTERED, WILL BE HANDLED BY THE OWNER UNDER A SEPARATE CONTRACT. ALL HAZARDOUS MATERIALS AND MATERIAL FINISHES LABELED WITH HAZARDOUS MATERIALS WILL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL GOVERNING AGENCY STATUTES WHICH APPLY TO THE TYPE OF HAZARDOUS MATERIAL.
29. CONTRACTOR IS RESPONSIBLE FOR AUTOMATIC FIRE SPRINKLER DESIGN, IN ACCORDANCE WITH NFPA-13 AND ALL LOCAL CITY AND STATE CODES AND ORDINANCES. CONTRACTOR TO PROVIDE ARCHITECT WITH SHOP DRAWINGS SUBMITTED TO STATE FIRE MARSHALL FOR APPROVAL AND WITH ONE SET OF FIRE MARSHALL APPROVED DRAWINGS. FIRE SPRINKLER DESIGN MUST BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DESIGNS AND CONSTRUCTION. LEAVE A SET OF STAMPED AND APPROVED DRAWINGS (INCLUDING FIRE MARSHALL) WITH OWNER.

SYMBOL LEGEND

	PARTITION WALL. 5/8" GYP. BOARD, BOTH SIDES OVER 3/5" 22 GAUGE METAL STUDS AT 24" O.C. WALL TO 4" ABOVE SUSPENDED ACOUSTICAL CEILING OR AS DETAILED OR NOTED.
	INTERIOR SOUND WALL. 5/8" GYP. BD. (BOTH SIDES) OVER 3/5" 22 GAUGE METAL STUDS @ 24" O.C. WITH 3 1/2" SOUND BATT INSULATION. ASSEMBLY TO 4" ABOVE CEILING UNLESS NOTED OTHERWISE ON PLAN.
	NEW LOW PARTITION. 5/8" GYP. BOARD, BOTH SIDES OVER 3/5" 22 GAUGE METAL STUDS AT 24" O.C. SEE FLOOR PLAN FOR HEIGHT AND DETAILS. PROVIDE 2" X 2" STEEL TUBE BRACE ANCHORED TO FLOOR AND METAL STUDS AT 48" O.C. AND AT CORNERS AND ENDS. SEE DETAILS 3/A-5, 4/A-5 AND 5/A-5 FOR CAP.
	INTERIOR ELEVATION REFERENCE, SEE FLOOR PLAN AND INTERIOR ELEVATIONS
	DETAIL REFERENCE
	NEW DOOR, SEE DOOR SCHEDULE

PROJECT DATA

OWNER	DAVITA 2000 16TH STREET, LEVEL 12 DENVER, COLORADO 80202
ARCHITECT	SEARER, ROBBINS & STEPHENS 1730 EAST NORTHERN AVENUE, SUITE 124 PHOENIX, ARIZONA 85020 (602) 277-1187

CODE DATA

TITLE OF PROJECT	AURORA DIALYSIS CENTER UPGRADES
PROJECT ADDRESS	1411 SOUTH POTOMAC STREET, SUITE 100, AURORA, COLORADO 80012
GOVERNING CODES AND AGENCIES	2015 INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL MECHANICAL CODE 2015 INTERNATIONAL PLUMBING CODE 2015 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE AMERICANS WITH DISABILITIES ACT (ADA)
BUILDING DATA	
OCCUPANCY	GROUP B
FIRE SPRINKLERED	YES
FIRE ALARM	YES
AREA OF SUITE	8,227 S.F.

COORDINATION NOTES

1. REFER TO JOB SPECIFIC NOTES ON SHEET A-100.
2. MECHANICAL, PLUMBING AND ELECTRICAL SUBCONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AND TO REFER TO ALL SHEETS IN THE SET FOR CONSTRUCTION CONDITIONS, NOT JUST THE DRAWINGS PERTAINING TO THEIR DISCIPLINE.
3. FINAL LOCATION OF ALL SURFACE FEATURES ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS AND/OR ARCHITECT PRIOR TO INSTALLATION.

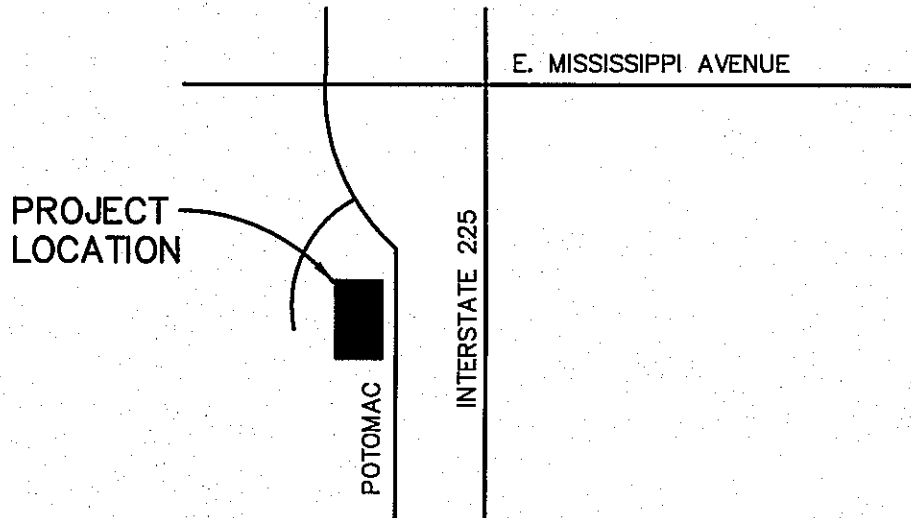


City of Aurora Building Division
Project: **Davita Tenant Improvement**
Address: **1411 S. Potomac St. # 100**
Occupancy Group: **B**
Construction Type: **II 1hr.-SPK.**
RSN: **1322345**
Permit: **18-1529237 LT**

CHANGES TO THE FIRE SPRINKLER/ALARM
SYSTEMS SHALL BE BY A SEPARATE PERMIT

Code violations that are found during
inspection are required to be corrected.
Permit issuance does not grant
approval of a code violation.

Field Inspection consultation is
available upon request. Call
303-739-7420 to request a consultation



VICINITY MAP

SCALE: N.T.S.

SHEET INDEX

SHEET COUNT	SHEET NO.	SHEET DESCRIPTION
1	A-100	TITLE SHEET
2	A-1000	DEMOLITION PLAN
3	A-101	FLOOR PLAN
4	A-401	INTERIOR ELEVATIONS
5	A-403	CABINET DETAILS
6	A-404	CABINET DETAILS

SITE PLAN

SCALE: N.T.S.



NOTE:
CONTRACTOR SHALL FLOAT NEW CONCRETE, AS REQUIRED, FOR SMOOTH FINISHES OF FLOOR SURFACES AND AT ALL FLOOR TRANSITIONS.

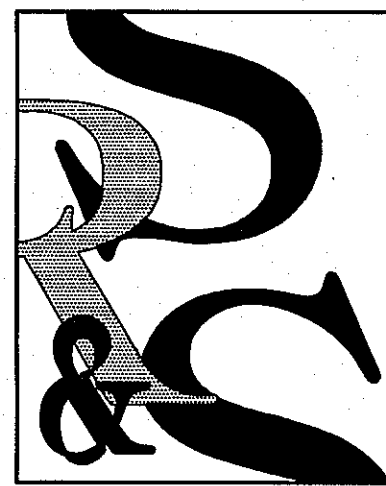
NOTE:
PATCH SAND AND PREPARE ALL WALLS AS REQUIRED FOR NEW PAINT FINISH.

NOTE:
PATCH AND PREPARE ALL FLOORS AS REQUIRED FOR NEW FLOOR FINISH.

NOTE:
PATCH AND PREPARE ALL DOORS AS REQUIRED FOR NEW STAIN FINISH TO MATCH EXISTING.

NOTE:
CONTRACTOR SHALL PROVIDE AND INSTALL MECHO ROLLER SHADES ON ALL INTERIOR AND EXTERIOR WINDOWS.

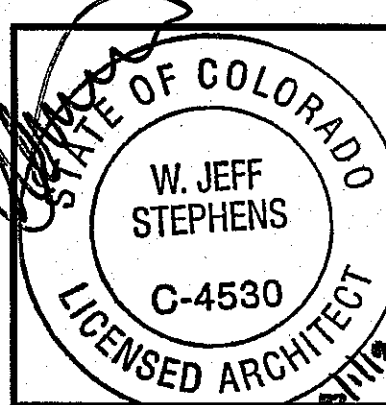
NOTE:
PROVIDE NEW ACID AND R.O. LOOP AS REQUIRED.



SEARER, ROBBINS & STEPHENS, INC.

DRAWN _____ DBR
CHECKED _____ DBR
JOB NO. 1820
DATE AUG. 1, 2018

REVISIONS

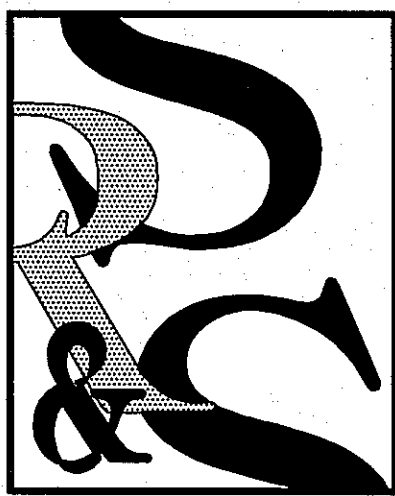


Davita
Aurora Dialysis Center Upgrades
at
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SHEET NO.

A-100

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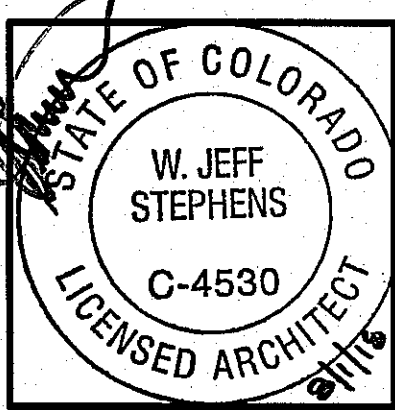


SEARER, ROBBINS & STEPHENS, INC.
ARCHITECTURE
INTERIORS
PLANNING
1730 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020 (602) 277-1187 FAX (602) 277-8879

DEMOLITION PLAN

DRAWN _____ DBR
CHECKED _____ DBR
JOB NO. 1820
DATE AUG. 1, 2018

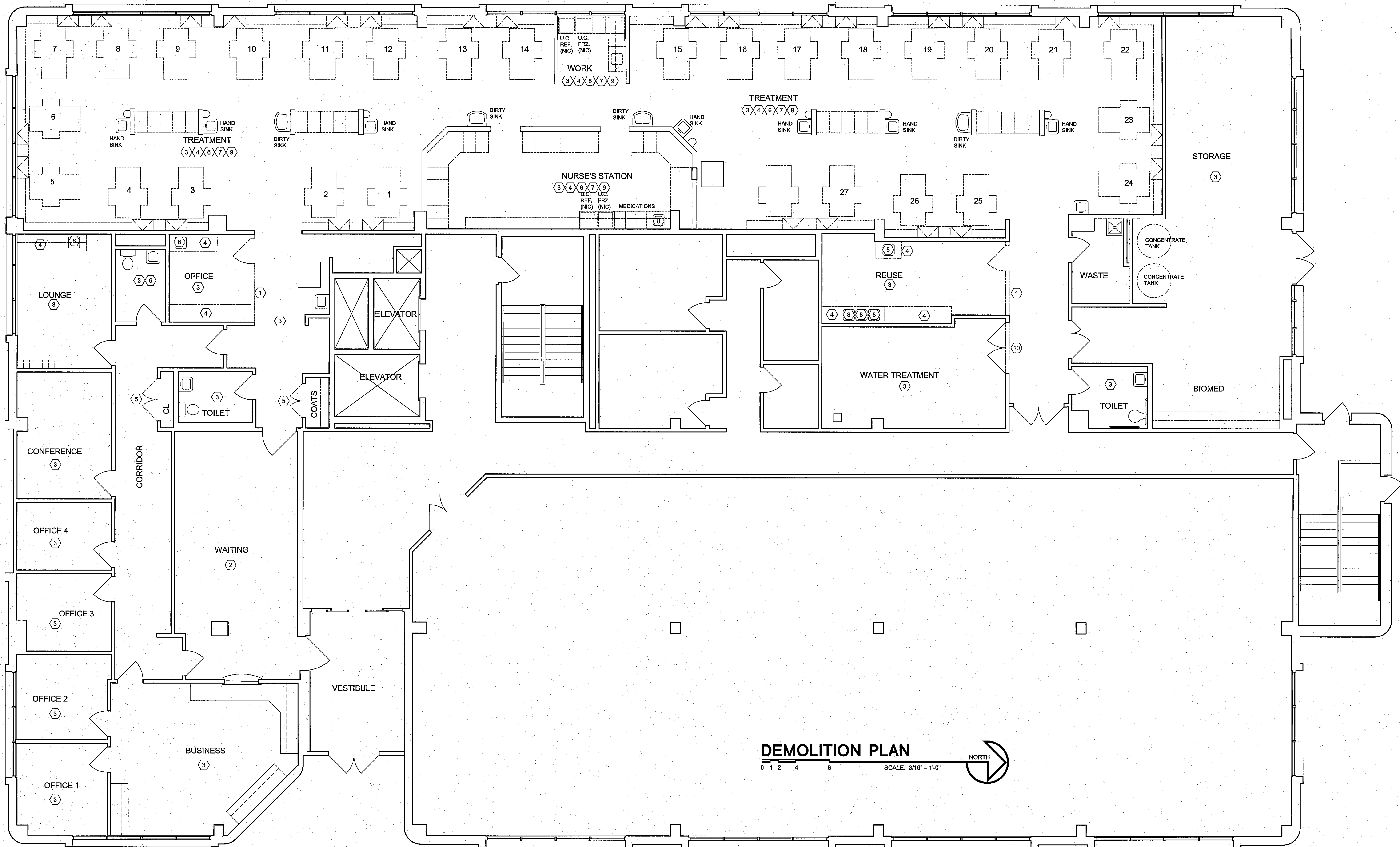
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SHEET NO.
A-100D



DEMOLITION NOTES (GENERAL)

1. THE CONTRACTOR FOR THIS WORK SHALL BE RESPONSIBLE FOR THE SAFE PROSECUTION OF THE WORK OF THIS SECTION AND SHALL COMPLY WITH THE REQUIREMENTS OF GOVERNING BUILDING CODES, AND ALL OTHER GOVERNING CODES, LATEST EDITIONS. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY.
2. PROVIDE AND INSTALL ALL SHORING, BRACING AND/OR BARRICADES REQUIRED TO PROTECT THE PUBLIC AND PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED AND ADJACENT STRUCTURES TO REMAIN.
3. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES IN AFFECTED AREAS, AND WITH UTILITY COMPANIES AS NECESSARY.
4. ALL OPERATIONS SHALL BE PLANNED TO CAUSE THE MINIMUM AMOUNT OF INTERFERENCE WITH NORMAL ROUTINE AND FUNCTIONING OF EXISTING FACILITIES. ALL WORK SHALL BE PLANNED AND PROVIDED SO THAT THE AREAS OF OPERATION ARE SECURED AGAINST ANY UNAUTHORIZED ENTRY AT ANY TIME. ALSO ALL AREAS OF THE PROJECT SHALL BE SECURED AGAINST HARMFUL ACTIONS OF THE ELEMENTS DURING THE ENTIRE COURSE OF THE JOB. EGRESS AND ACCESS AS REQUIRED BY APPLICABLE BUILDING CODES AND OFFICIALS, FROM AND THROUGH EXISTING FACILITIES, SHALL BE MAINTAINED CONTINUOUSLY.
5. PRIOR TO THE START OF ANY DEMOLITION WORK, NOTIFY THE ARCHITECT AND SUBMIT A PROPOSED DEMOLITION SCHEDULE FOR REVIEW AND APPROVAL. CEILINGS, WALLS AND/OR FLOORS DAMAGED BY DEMOLITION WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION USING THE SAME MATERIALS AS EXISTING. IN EACH ROOM OR AREA, THE CEILING SHALL BE REPAIRED AND REFINISHED TO MATCH THE REMAINING WALLS. FLOOR SHALL BE RESURFACED WITH SAME MATERIAL AS EXISTING TO THE EXTENT DIRECTED BY THE ARCHITECT DEPENDENT OF THE AMOUNT OF DAMAGE, AND SHALL MATCH EXISTING. ALL ITEMS OTHER THAN WALLS, FLOORS AND/OR CEILINGS IN AFFECTED AREAS SHALL BE PROTECTED FROM DAMAGE, BUT IF DAMAGED, SHALL BE RESTORED TO NEW CONDITION OR REPLACED.
6. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT DISTURBANCES DUE TO EXCESS NOISE, DUST AND LIGHT. DEMOLITION AND CONSTRUCTION NOISE SHALL BE KEPT TO A REASONABLE MINIMUM, AND ACOUSTIC AND DUST BARRICADES SHALL BE PROVIDED IN AREAS ADJACENT TO FUNCTIONING AREAS, AND IN OTHER AREAS AS DIRECTED BY THE ARCHITECT.

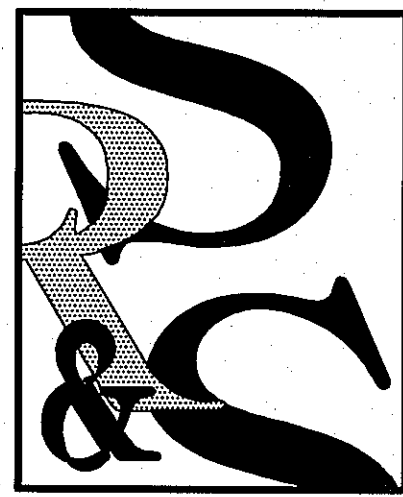
7. COVER AND PROTECT EQUIPMENT AND FIXTURES TO REMAIN FROM SOILING OR DAMAGE WHEN DEMOLITION WORK IS PERFORMED IN AREAS FROM WHICH SUCH ITEMS HAVE BEEN REMOVED.
8. LOCATE, IDENTIFY, SHUT OFF AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN.
9. ALL SALVAGED ITEMS ARE TO BE CAREFULLY REMOVED, CLEANED AND PROTECTED FROM DAMAGE DURING DEMOLITION OPERATION. LABEL AND IDENTIFY EACH ITEM AS IT IS REMOVED FROM EACH ROOM TO INSURE PROPER REINSTALLATION AND AVOID CONFLICTS.
10. UPON COMPLETION OF CONSTRUCTION WORK, REMOVE TOOLS, EQUIPMENT, DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM CONSTRUCTION OPERATIONS FROM BUILDING SITE. REMOVE PROTECTION AND LEAVE AREA CLEAN. TRANSPORT AND LEGALLY DISPOSE OF ALL MATERIALS OFF-SITE.
11. BURNING OF REMOVED MATERIALS IS NOT PERMITTED ON PROJECT SITE.
12. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN STRUCTURES AND SURFACES TO REMAIN TO EXISTING CONDITION PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION WORK.
13. WHERE EXISTING WALLS ARE TO BE REMOVED, FILL ANY DEPRESSION IN FLOOR UNDER WALL OR CEILING AND PROVIDE LEVELING SO THAT A SMOOTH LEVEL FLOOR, WALL OR CEILING READY FOR NEW FINISH WILL RESULT ON EACH SIDE OF WALL. THE CONTRACTOR FOR THIS WORK SHALL BE RESPONSIBLE FOR THE SAFE PROSECUTION OF THE WORK OF THIS SECTION AND SHALL COMPLY WITH THE REQUIREMENTS OF GOVERNING BUILDING CODES AND ALL OTHER GOVERNING CODES, LATEST EDITIONS. THIS CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS NECESSARY.

DEMOLITION NOTES (KEYED)

- EXISTING CONSTRUCTION TO BE REMOVED IS INDICATED ON THE DRAWINGS. ALL DEMOLITION IS NOT SHOWN. REMOVE ALL ITEMS NECESSARY FOR NEW CONSTRUCTION. IF THE CONTRACTOR IS UNCERTAIN OF ANY REMOVAL, THE ARCHITECT SHALL BE CONTACTED. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
1. EXISTING PARTITION TO BE REMOVED, AS REQUIRED, FOR NEW CONSTRUCTION.
 2. EXISTING CHAIR RAIL TO BE REMOVED, AS REQUIRED, FOR NEW CONSTRUCTION.
 3. EXISTING FLOORING AND BASE TO BE REMOVED, AS REQUIRED, FOR NEW CONSTRUCTION.
 4. EXISTING MILLWORK TO BE REMOVED, AS REQUIRED, FOR NEW CONSTRUCTION.
 5. EXISTING DOOR AND FRAME TO BE REMOVED, AS REQUIRED, FOR NEW CONSTRUCTION.
 6. EXISTING FRP TO BE REMOVED, AS REQUIRED, FOR NEW CONSTRUCTION.
 7. EXISTING CORNER GUARDS TO BE REMOVED, AS REQUIRED, FOR NEW CONSTRUCTION.
 8. EXISTING PLUMBING FIXTURE TO BE REMOVED, AS REQUIRED, FOR NEW CONSTRUCTION. CAP WATER AND SEWER AT WALL WHERE REQUIRED.
 9. EXISTING LOW WALL CAP TO BE REMOVED, AS REQUIRED, FOR NEW CONSTRUCTION.
 10. EXISTING CONCRETE CURB TO BE REMOVED, AS REQUIRED, FOR NEW CONSTRUCTION.

This sheet of drawings has not been reviewed for code compliance.

RSN: 1322345
Permit #: 18-1529237 LT

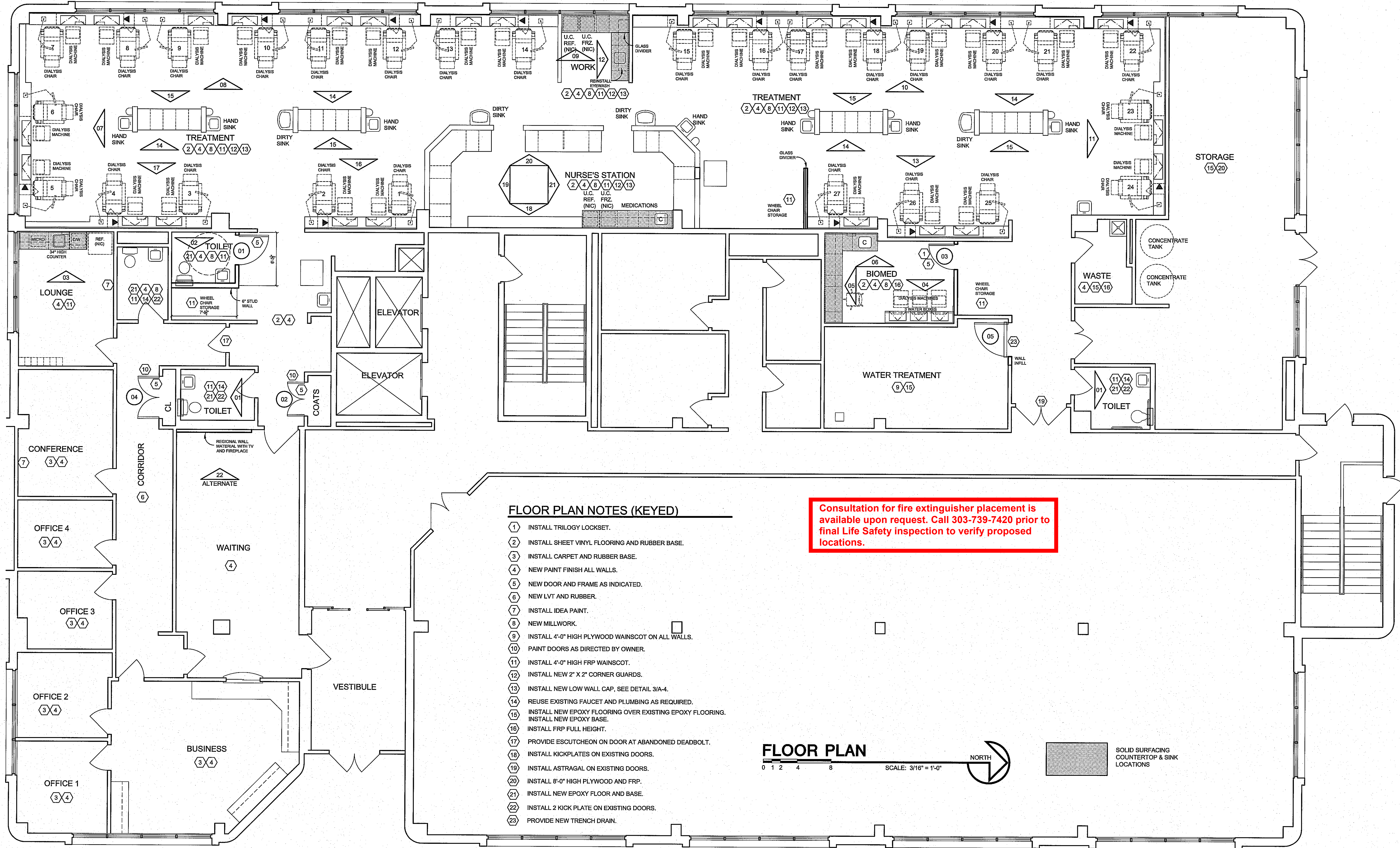


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1730 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020 (602) 277-1187 FAX (602) 277-9979

FLOOR PLAN, DOOR SCHEDULE

DRAWN _____ DBR
CHECKED _____ DBR
JOB NO. 1820
DATE AUG. 1, 2018

REVISIONS



FLOOR PLAN NOTES (KEYED)

- 1 INSTALL TRILOGY LOCKSET.
- 2 INSTALL SHEET VINYL FLOORING AND RUBBER BASE.
- 3 INSTALL CARPET AND RUBBER BASE.
- 4 NEW PAINT FINISH ALL WALLS.
- 5 NEW DOOR AND FRAME AS INDICATED.
- 6 NEW LVT AND RUBBER.
- 7 INSTALL IDEA PAINT.
- 8 NEW MILLWORK.
- 9 INSTALL 4'-0" HIGH PLYWOOD WAINSCOT ON ALL WALLS.
- 10 PAINT DOORS AS DIRECTED BY OWNER.
- 11 INSTALL 4'-0" HIGH FRP WAINSCOT.
- 12 INSTALL NEW 2" X 2" CORNER GUARDS.
- 13 INSTALL NEW LOW WALL CAP, SEE DETAIL 3/A-4.
- 14 REUSE EXISTING FAUCET AND PLUMBING AS REQUIRED.
- 15 INSTALL NEW EPOXY FLOORING OVER EXISTING EPOXY FLOORING.
- 16 INSTALL NEW EPOXY BASE.
- 17 INSTALL FRP FULL HEIGHT.
- 18 PROVIDE ESCUTCHEON ON DOOR AT ABANDONED DEADBOLT.
- 19 INSTALL KICKPLATES ON EXISTING DOORS.
- 20 INSTALL ASTRAGAL ON EXISTING DOORS.
- 21 INSTALL 8'-0" HIGH PLYWOOD AND FRP.
- 22 INSTALL NEW EPOXY FLOOR AND BASE.
- 23 INSTALL 2 KICK PLATE ON EXISTING DOORS.
- 24 PROVIDE NEW TRENCH DRAIN.

Consultation for fire extinguisher placement is available upon request. Call 303-739-7420 prior to final Life Safety inspection to verify proposed locations.

FLOOR PLAN

0 1 2 4 8 SCALE: 3/16" = 1'-0"



SOLID SURFACING
COUNTERTOP & SINK
LOCATIONS

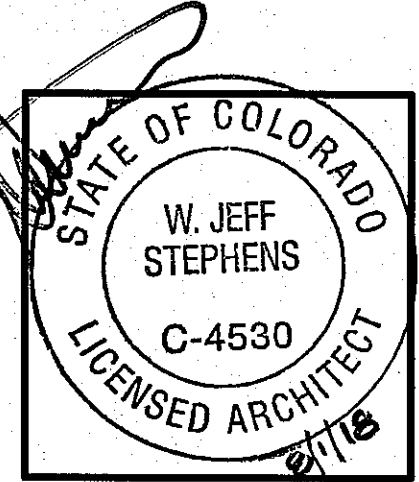
WATER TREATMENT				CLOSET				BIOMED				CLOSET				PATIENT TOILET ROOMS			
HARDWARE	QUANTITY	ITEM	MODEL NO.	MANUF.	HARDWARE	QUANTITY	ITEM	MODEL NO.	MANUF.	HARDWARE	QUANTITY	ITEM	MODEL NO.	MANUF.	HARDWARE	QUANTITY	ITEM	MODEL NO.	MANUF.
	3 EACH	HINGES	TA2714 (5 X 4-1/2) X US28D	McKINNEY		6 EACH	HINGES	TA2714 (4 1/2" X 4 1/2")	McKINNEY		3 EACH	HINGES	TA2714 (5 X 4-1/2) X US28D	McKINNEY		3 EACH	HINGES	TA2714 (5 X 4-1/2) X US28D	McKINNEY
	1 EACH	LOCKSET	B-PB NTB620-NR X 626	YALE		1 EACH	LOCKSET	B-PB NTB620-NR X 626	YALE		1 EACH	LOCKSET	B-PB NTB620-NR X 626	YALE		1 EACH	LOCKSET	B-PB NTB620-NR X 626	YALE
	1 EACH	CLOSER	3501 X 689	YALE		2 EACH	OVERHEAD STOP	2-336	RIXON		2 EACH	OVERHEAD STOP	2-336	RIXON		1 EACH	CLOSER	3501 X 689	YALE
	2 EACH	KICK PLATES	K1050 (36 X 2" LDW) B4E X US32D X CSK	ROCKWOOD		1 EACH	FLUSH BOLT	555 X 626	ROCKWOOD		2 EACH	FLUSH BOLT	555 X 626	ROCKWOOD		2 EACH	KICK PLATES	K1050 (36 X 2" LDW) B4E X US32D X CSK	ROCKWOOD
	3 EACH	SILENCERS	608	ROCKWOOD		1 EACH	STRIKE	570 X 626	ROCKWOOD		1 EACH	STRIKE	570 X 626	ROCKWOOD		3 EACH	SILENCERS	608	ROCKWOOD
	1 EACH	WALL STOP	409 X 626	ROCKWOOD		1 EACH	SMOKE SEAL	PK33D18	PEMCO		1 EACH	SMOKE SEAL	PK33D18	PEMCO		1 EACH	WALL STOP	409 X 626	ROCKWOOD

NOTE: INSTALL KICKPLATE AT PUSH SIDE OF DOOR

NOTE: INSTALL KICKPLATE AT PUSH SIDE OF DOOR

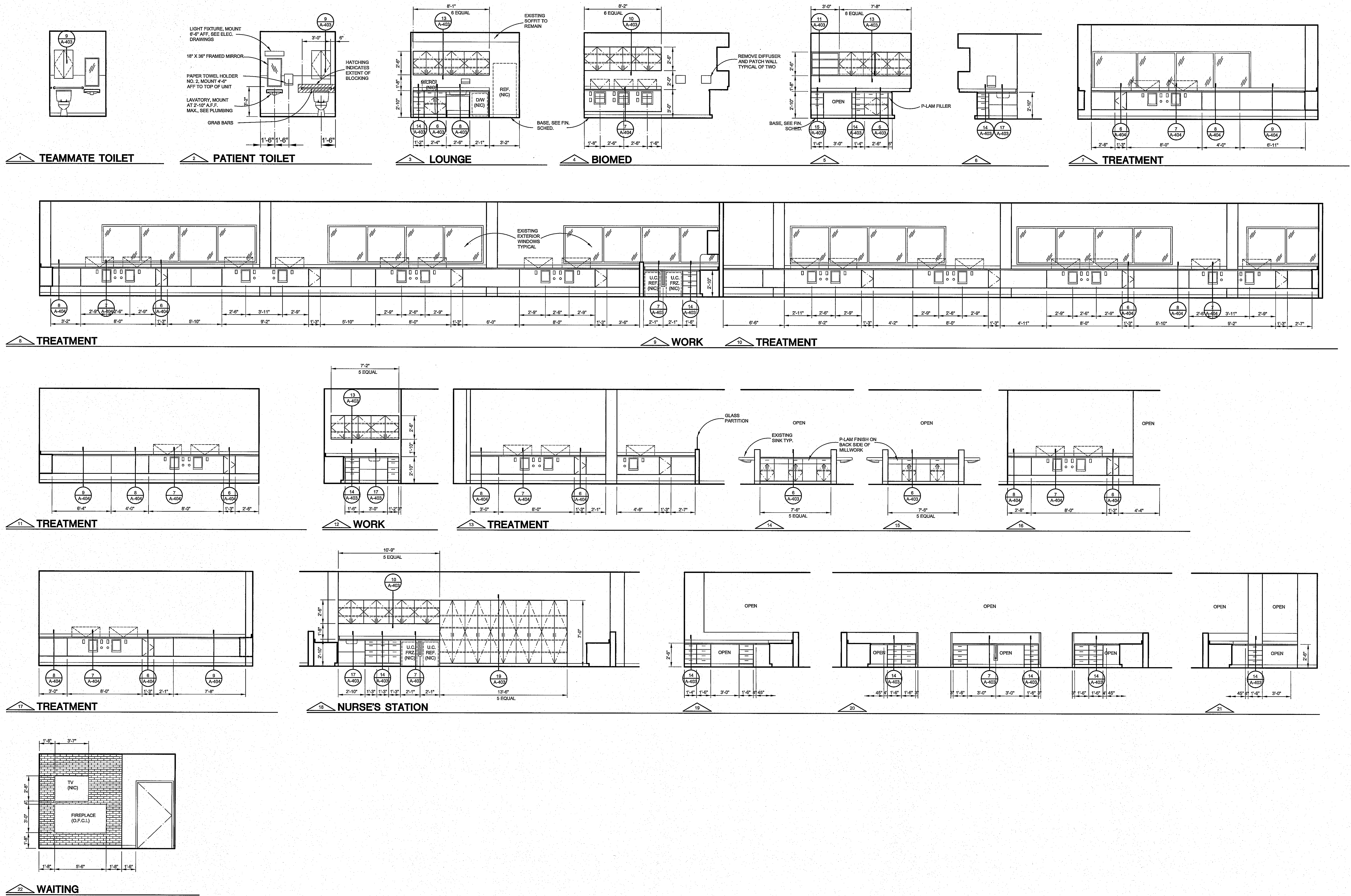
City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: pmckown
Date: Sep 26, 2018
2015 INTERNATIONAL CODES & 2017 NEC

RSN: 1322345
Permit #: 18-1529237 LT



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Aurora, Colorado 80012

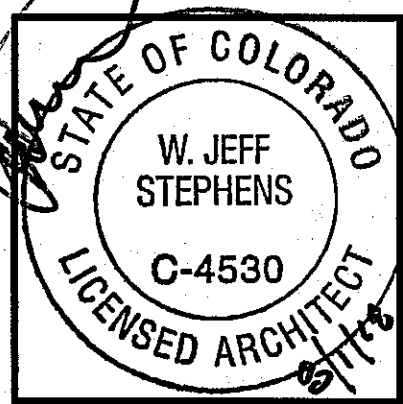
SHEET NO.
A-101



SEARER, ROBBINS & STEPHENS, INC.
 ARCHITECTURE
 INTERIORS
 1750 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020
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 PLANNING

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 CHECKED DBR
 JOB NO. 1820
 DATE AUG. 1, 2018

REVISIONS

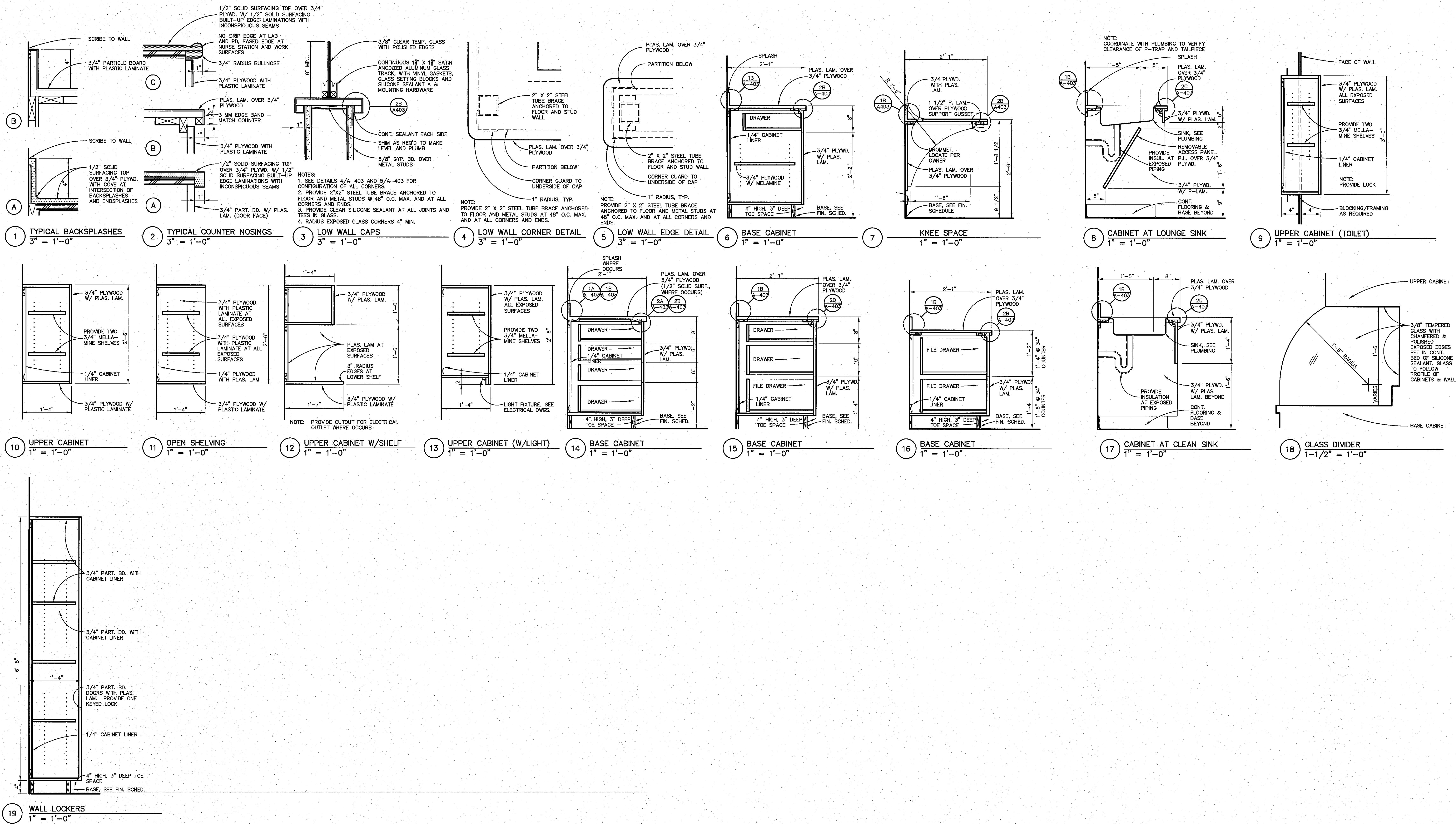


Davita
 Aurora Dialysis Center Upgrades
 1411 South Potomac Street, Suite 100
 Aurora, Colorado 80012

City of Aurora Building Division
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 Date: Sep 26, 2018
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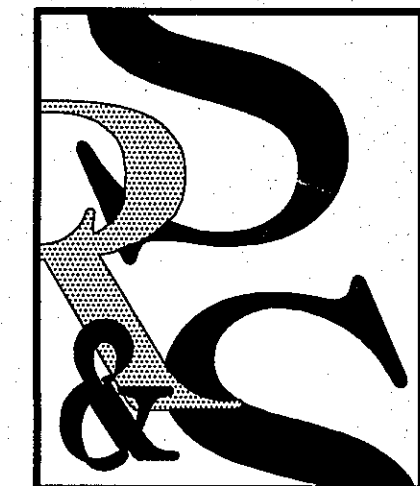
SHEET NO.
A-401



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Date: Sep 26, 2018
2015 INTERNATIONAL CODES & 2017 NEC

RSN: 1322345
Permit #: 18-1529237 LT

- COORDINATION NOTES**
- REFER TO JOB SPECIFIC NOTES ON SHEET A-100.
 - MECHANICAL, PLUMBING AND ELECTRICAL SUBCONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AND TO REFER TO ALL SHEETS IN THE SET FOR CONSTRUCTION CONDITIONS, NOT JUST THE DRAWINGS PERTAINING TO THEIR DISCIPLINE.
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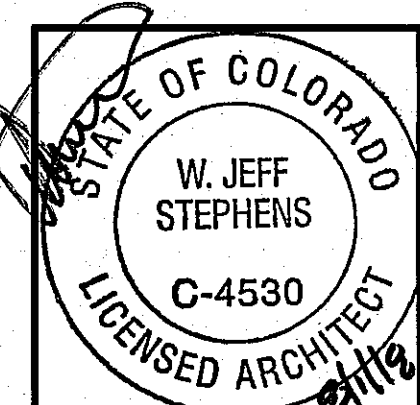


SEARER, ROBBINS & STEPHENS, INC.
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CABINET DETAILS

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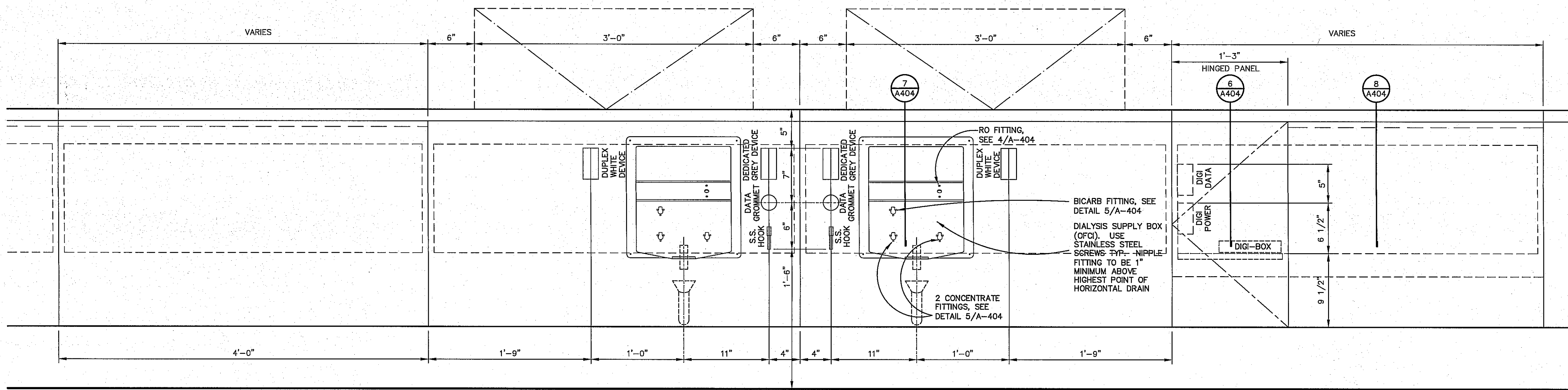
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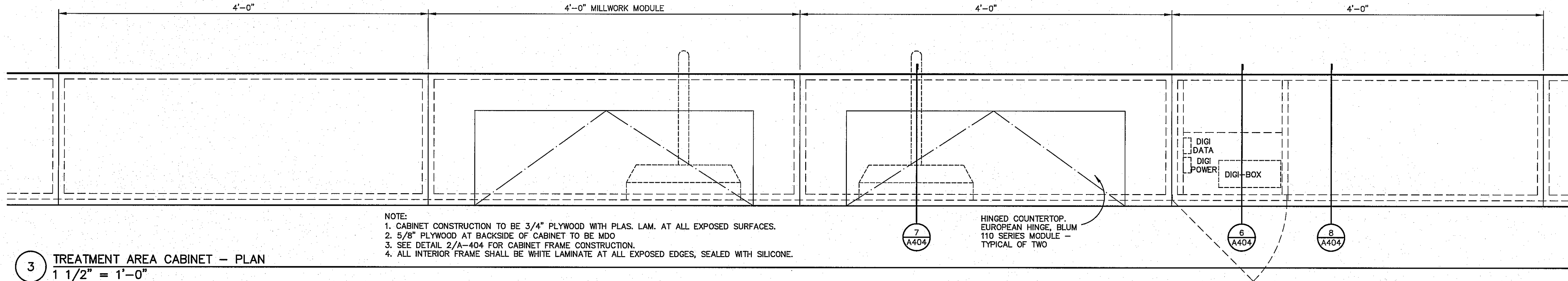
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A-403

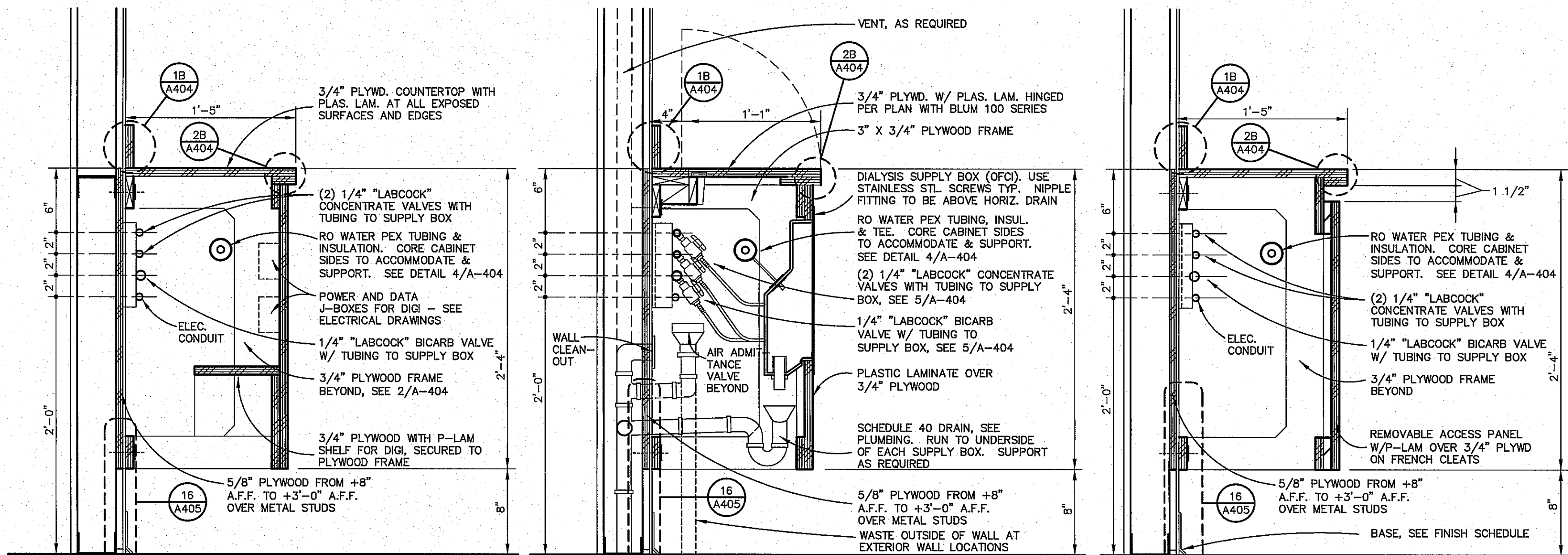


NOTE:
1. ALL ELECTRICAL COVER PLATES TO BE STAINLESS STEEL, OUT TIGHT.
2. OUT OUT FOR DIALYSIS BOX. PROVIDE CLEAR SEALANT AT PERIMETER.
3. PROVIDE BLOCKING PER 2/A-404 FOR TV BRACKETS (NIC)

1 TREATMENT AREA CABINET - ELEVATION
1 1/2" = 1'-0"



3 TREATMENT AREA CABINET - PLAN
1 1/2" = 1'-0"

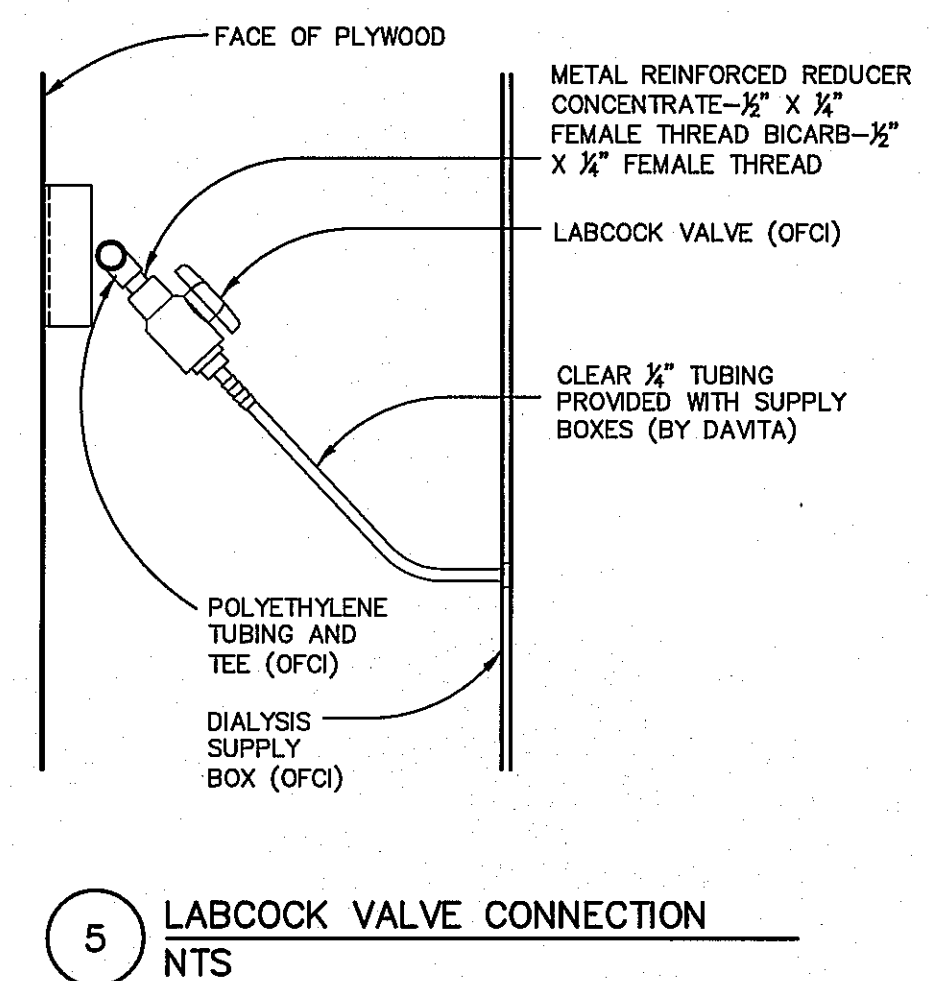
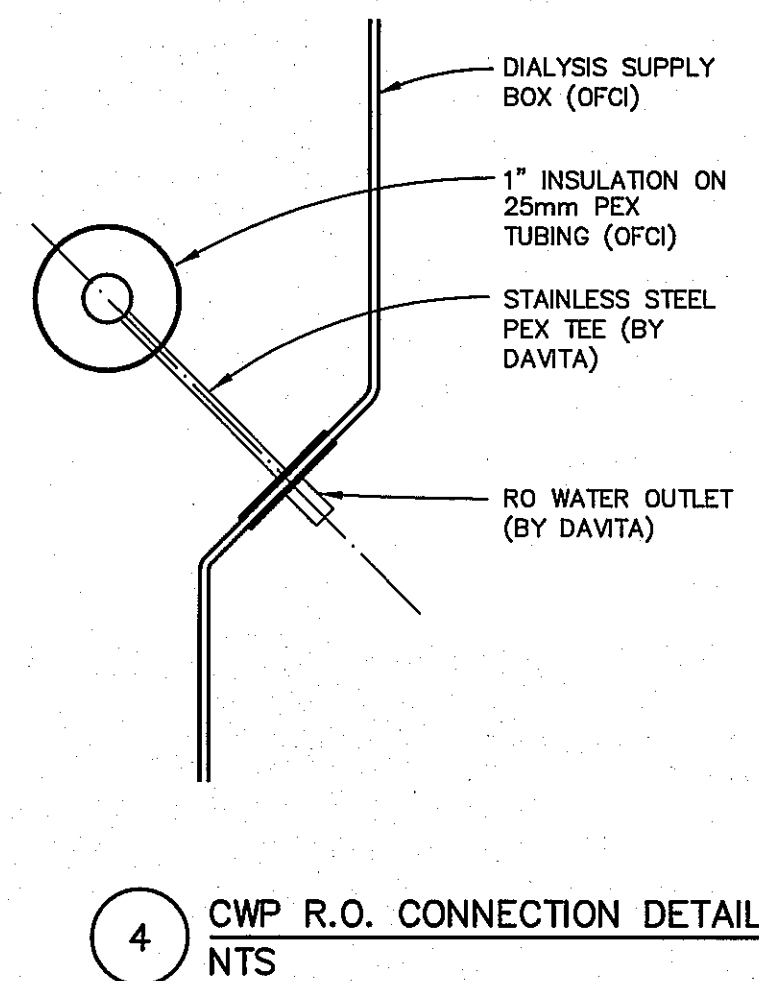


6 TREATMENT AREA DIGI CABINET
1 1/2" = 1'-0"

7 TREATMENT AREA PROCESS PIPING CABINET
1 1/2" = 1'-0"

8 TREATMENT AREA PROCESS PIPING CABINET
1 1/2" = 1'-0"

9 TREATMENT AREA PROCESS PIPING RACEWAY
1 1/2" = 1'-0"

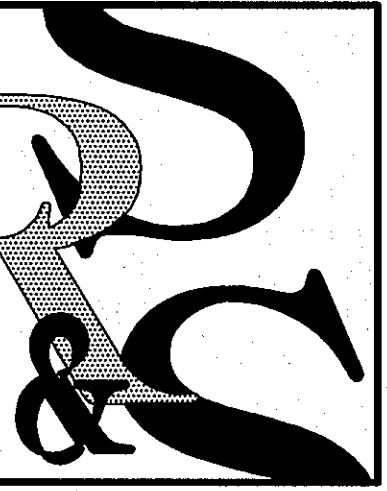


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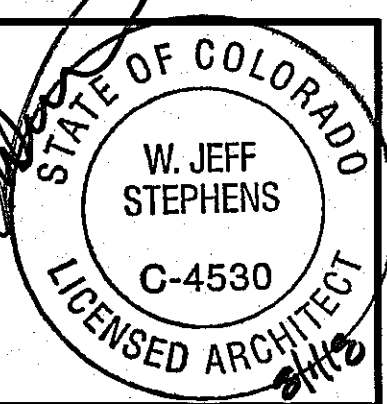


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Davita
Aurora Dialysis Center Upgrades
at
1411 South Potomac Street, Suite 100
Aurora, Colorado 80012

SHEET NO.

A-404

WALL NOTES

1. ALL WALLS THAT ARE TO BE PAINTED, SHALL BE P-1, FIELD COLOR, AMAZING GRAY, UNLESS NOTED OTHERWISE ON THIS PLAN.
2. SEE ROOM FINISH SCHEDULE AND FLOOR PLAN FOR WTP LOCATIONS.
3. ALL EXPOSED STEEL COLUMN SHALL BE PRIMED AND PAINTED THE FIELD COLOR PER SPECIFICATIONS, UNLESS NOTED OTHERWISE.

WALL LEGEND (KEYED)

- (P1) FIELD COLOR, SHERWIN-WILLIAMS, NO-VOIEGG SHELL, "AMAZING GRAY" SW7044
- (P2) "TASK" ACCENT COLOR, SHERWIN-WILLIAMS, NO-VOIEGG SHELL, "SMOKY BLUE" SW7604
- (P3) "LIVING" ACCENT COLOR, SHERWIN-WILLIAMS, NO-VOIEGG SHELL, "GREEN SPROUT" SW7728
- (P4) "REFRESH" ACCENT COLOR, SHERWIN-WILLIAMS, NO-VOIEGG SHELL, "MAGNAC" SW6364
- (P5) DOOR FRAMES, SHERWIN-WILLIAMS, "KEYSTONE GRAY" SW 7294
- (P6) WHITE BOARD PAINT, "IDEA PAINT" "THIS" & "THAT" WHITE GLOSS
- (P7) BACKPLASH TILE AND GROUT: CERAMIC TILE - AMERICAN LEAN PROFILES ICE WHITE 0025 GROUT - TEC UNBANDS GROUT MIST 389
- (P8) REGIONAL WALL MATERIAL
- WP-1: VARITEX 0.090" THICK RIGID SHEET, SATIN FINISH, AS MANUFACTURED BY CRANE COMPOSITES. COLOR TO BE PEPERDUST. 4'-0" HIGH WANSOT (TO UNDERSIDE OF WALL CAP AT LOW WALLS).
- - - WP-2: GLASBORD 0.090" THICK RIGID SHEET, EMBOSSED FINISH, AS MANUFACTURED BY CRANE COMPOSITES. COLOR TO BE PEARL GREY. PANEL TO 6" ABOVE CEILING AT WATER TREATMENT AND TO THE UNDERSIDE OF CEILING AT ALL OTHER LOCATIONS

GRAPHICS LEGEND (KEYED)

- 1 WELCOME GRAPHIC
- 2 DAVITA LOGO
- 3 MISSION AND CORE VALUES
- 4 RESOURCE CENTER
- 5 THANK YOU
- 6 WALL OF FAME
- 7 SCENIC GRAPHICS
- 8 THE DAVITA WAY
- 9 VISION STATEMENT
- 10 BRINGING QUALITY TO LIFE

BULLETIN BOARDS (KEYED)

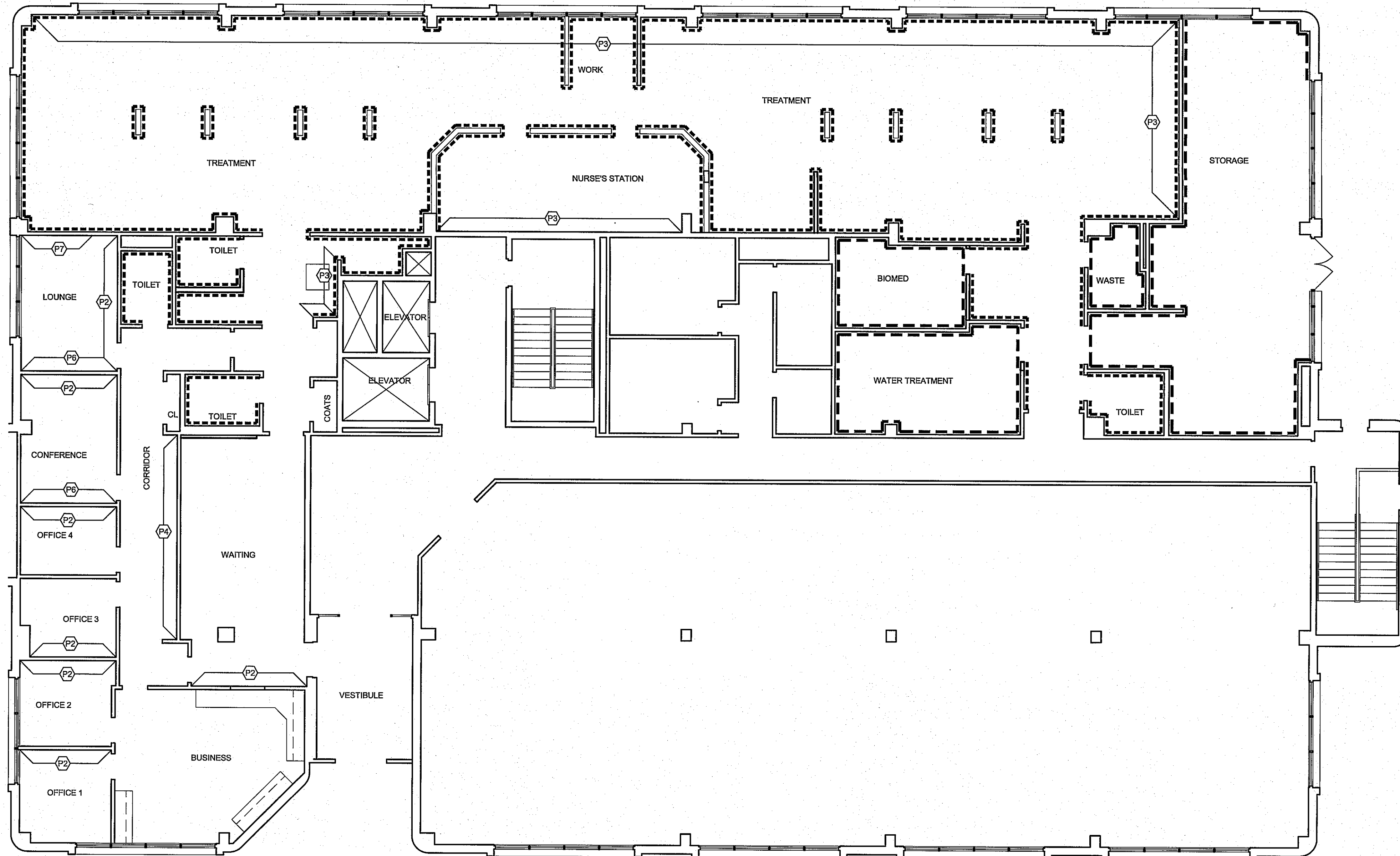
- ▽ PATIENT INFO/STATE-REQUIRED POSTINGS
- ▽ TEAMMATE INFO/OSHA-REQUIRED POSTINGS
- ▽ R.O./BICARB & STORAGE POSTINGS

FLOOR/BASE LEGEND

- FLOORING:**
- (SV-1) SHAW "NATURELIFE" CUSTOM 350A, HOPE LIVING
- (C-1) SHAW "IMAGE" CARPET TILE, HOPE TASK (C-2) SHAW "WELCOME IF" TILE ST031 STERLING 31567
- (LV-1) SHAW "UNCOMMON GROUND" 6" PLANK HOPE REFRESH
- (RF-1) DUR-A-FLEX HYBR-FLEX-ES NO CHIP "SLATE" MATTE
- (S-1) CLEAR SEALER

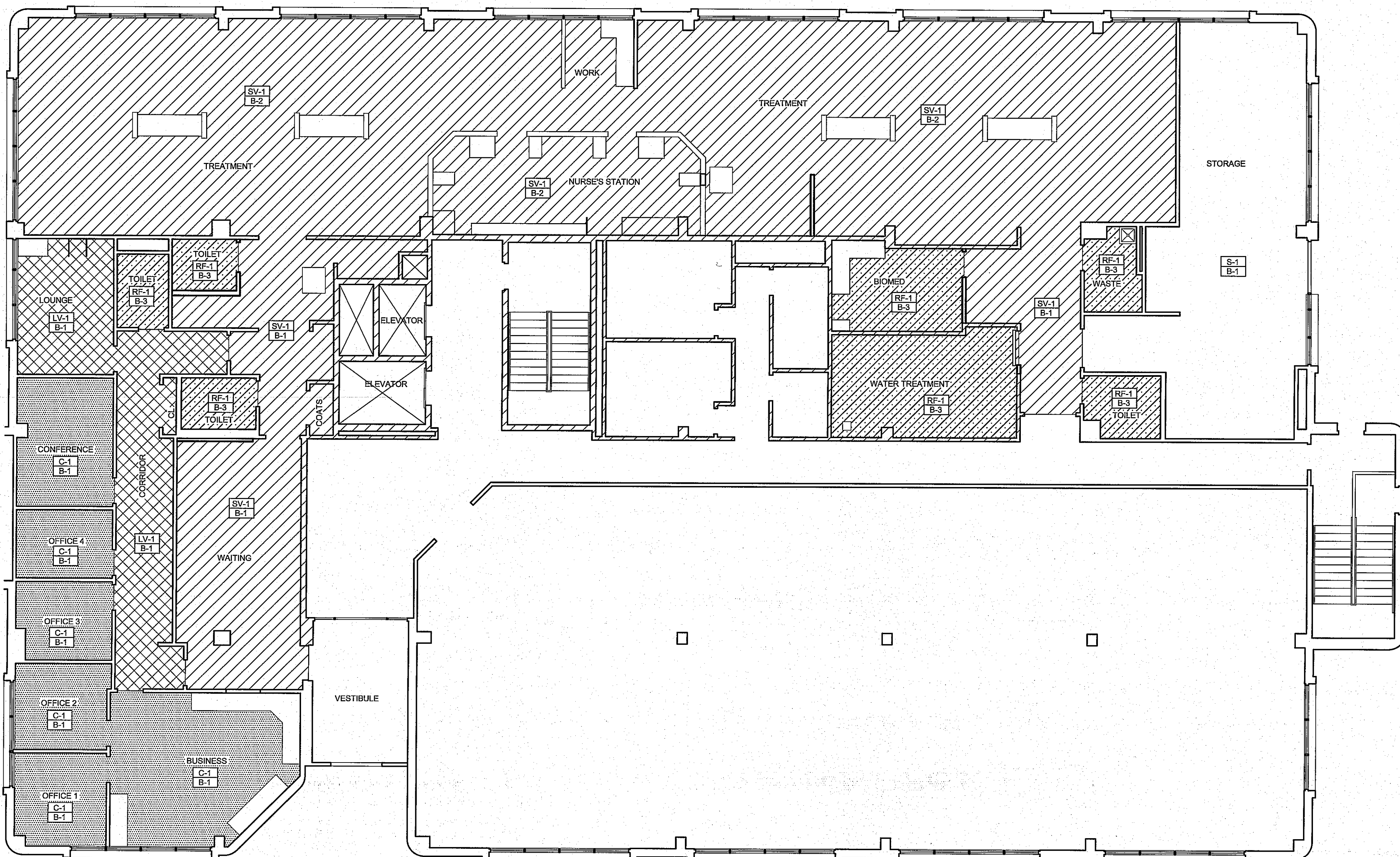
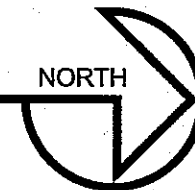
BASE:

- B-1 4" STANDARD COVE BASE JOHNSONITE "BROWN" 47
- B-2 4" INTEGRAL SHEET VINYL COVE SHAW "NATURELIFE" CUSTOM 350A
- B-3 4" INTEGRAL RESINOUS COVE DUR-A-FLEX HYBR-FLEX-ES SOLID COLOR "SLATE" MATTE



WALL FINISH PLAN

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



FLOOR FINISH PLAN

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

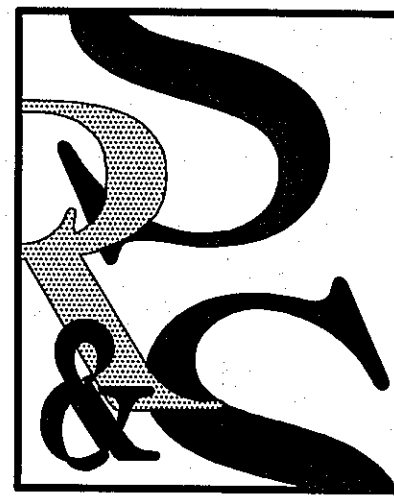


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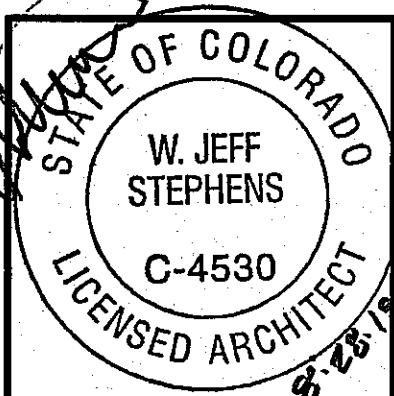
INTERIORS

FINISH PLANS/SCHEDULES

DRAWN _____ SRS
CHECKED _____ DBR
JOB NO. _____ 1820
DATE AUG. 20, 2018

REVISIONS

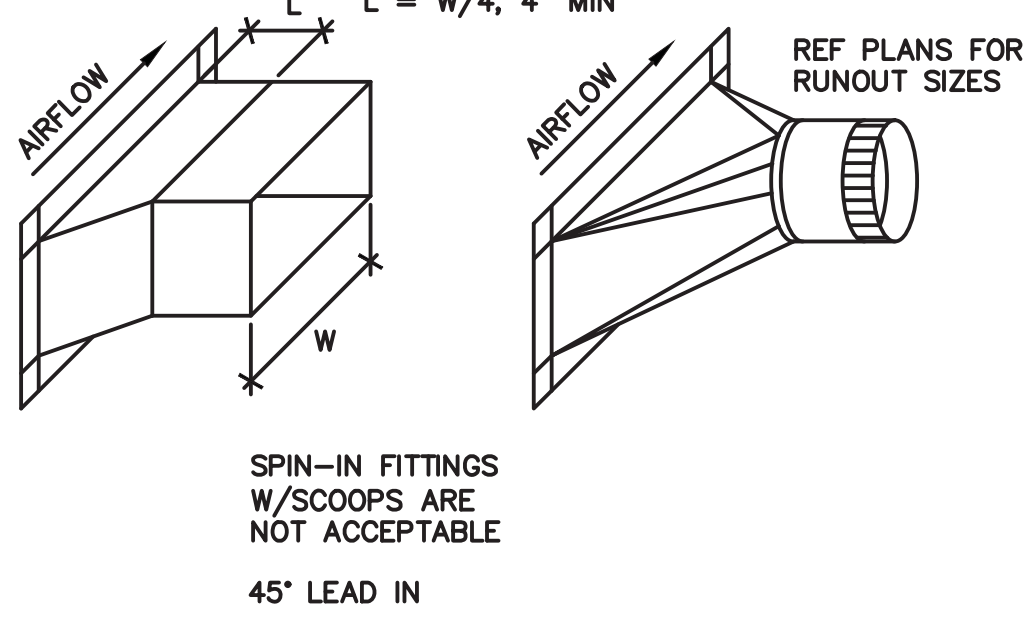
COORD. COMMENTS
AUG. 28, 2018



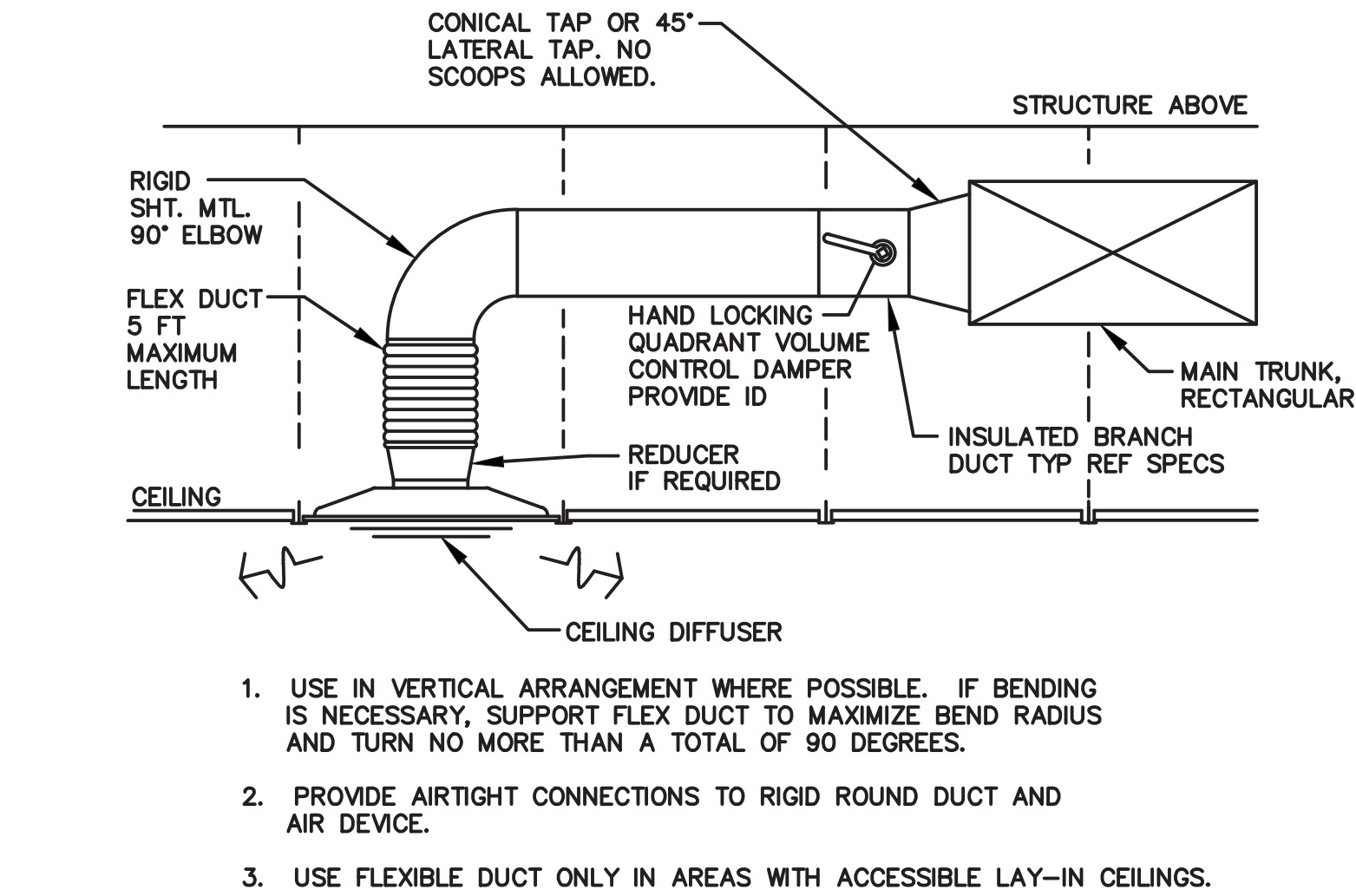
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Aurora Dialysis Center Upgrades
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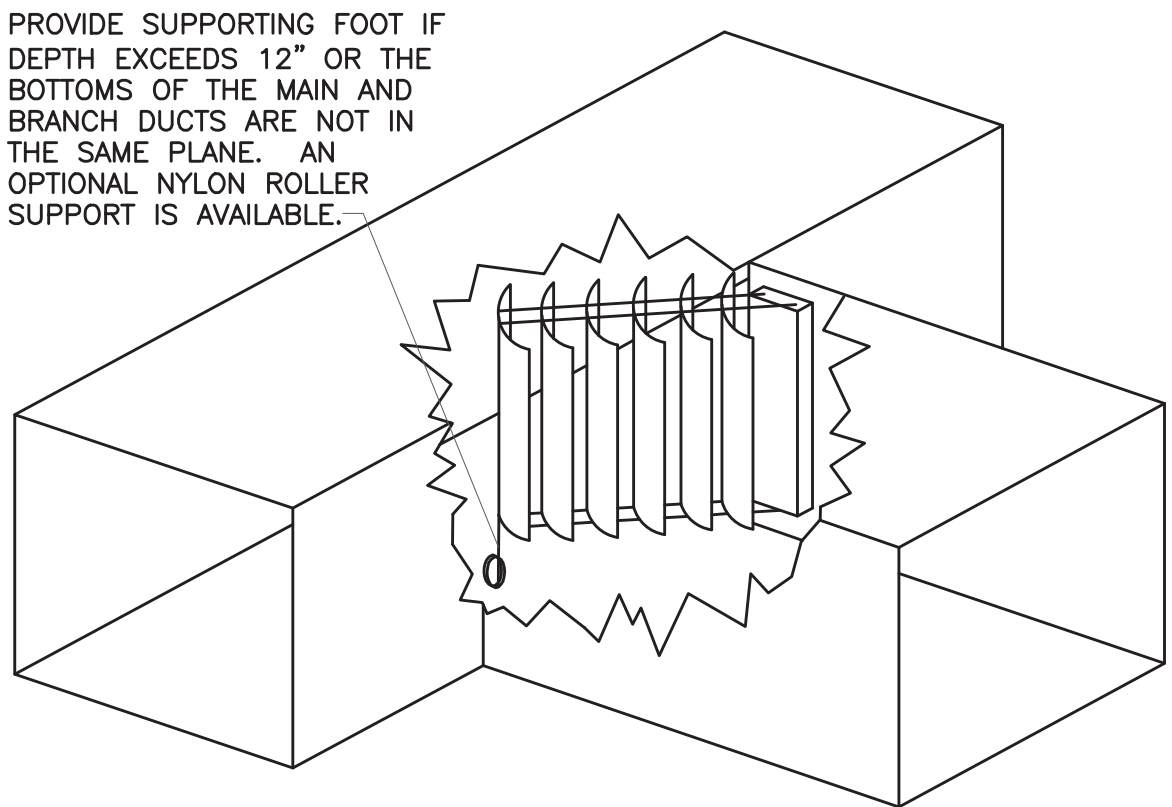
SHEET NO.
A-701



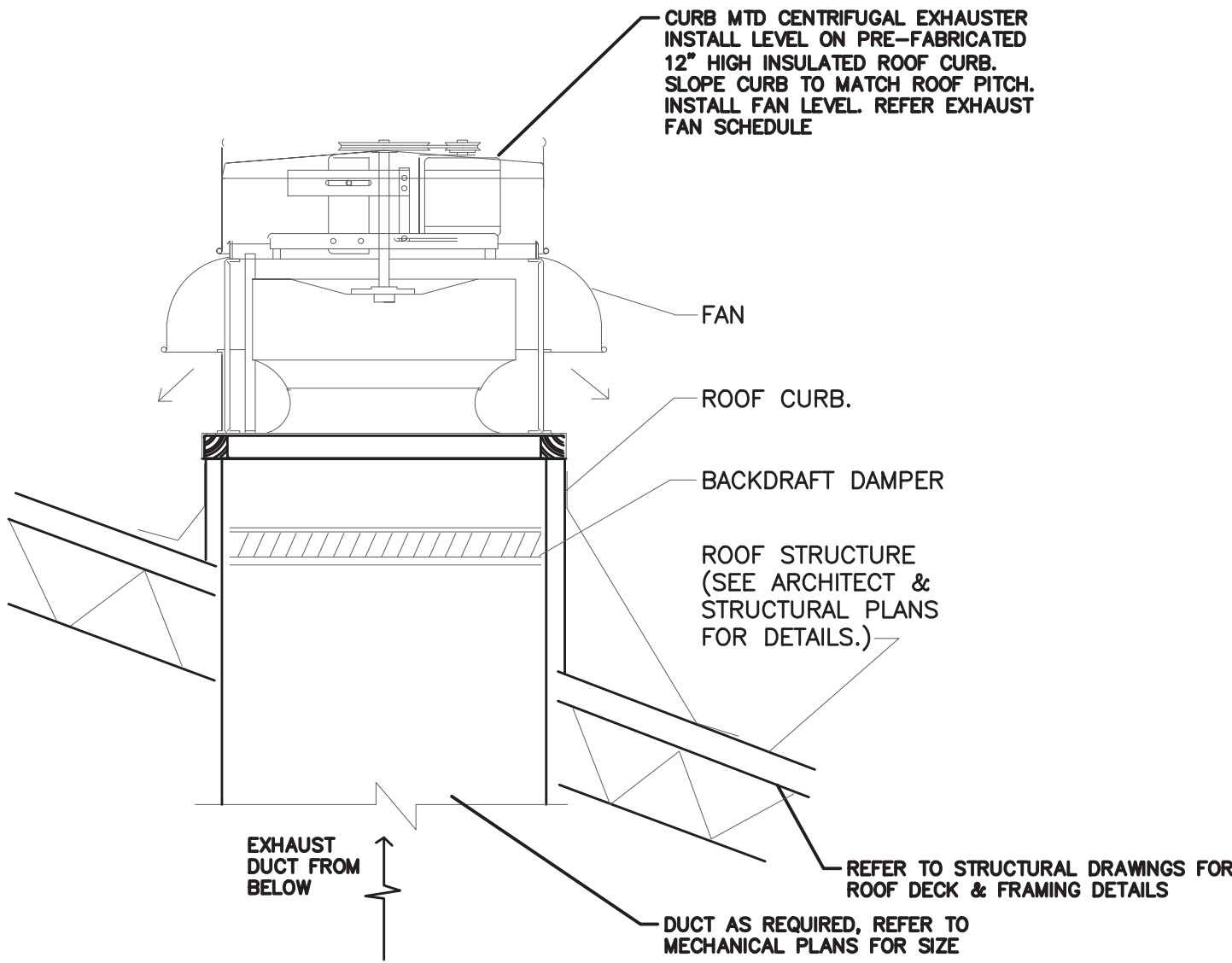
1 BRANCH DUCT FITTING
SCALE: N.T.S.



2 BRANCH TAKE-OFF & FLEXIBLE DUCT
SCALE: N.T.S.



3 BRANCH DUCT TAKEOFF
SCALE: N.T.S.



4 ROOF MOUNTED EXHAUST FAN
SCALE: N.T.S.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE				
TAG	EAG			
MANUFACTURER	PRICE			
MODEL NO.	PDDR			
SERVICE				
TYPE	EXHAUST			
FACE SIZE OR SLOT LENGTH - IN.	24X24			
NUMBER OF SLOTS / SIZE - IN.				
FINISH	WHITE			
REMARKS	2,5,7			
NOTES: THIS SCHEDULE IS COMPREHENSIVE. ALL MARKS MAY OR MAY NOT BE USED ON THE PLANS				
1. ADJUSTABLE AIR PATTERN CONTROLLERS. AIRFLOW ON BOTH SLOTS SHALL BE SET TO ONE DIRECTION AS INDICATED ON THE PLANS				
2. PROVIDE OPTIONAL CEILING DIFFUSER MOLDED INSULATION BLANKET.				
3. SLOT DIFFUSER SHALL BE EXTERNALLY INSULATED MODEL, WITH TWO 3/4" SLOTS.				
4. PROVIDE OPTIONAL T-BARS.				
5. PROVIDE WHITE POWDER COAT FINISH (INTERIOR ONLY FOR SLOT DIFFUSER).				
6. FURNISH WITH 12X12" DUCT CONNECTION.				
7. REFER TO PLANS FOR NECK SIZES AND QUANTITY.				
8. DOUBLE DEFLECTION GRILLE. ADJUST AIR PATTERN: VERTICAL (O' UP), HORIZONTAL (PER PLANS)				

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4.	ALL EXPOSED PIPE, CONDUIT, AND DUCTWORK TO BE PREPPED BY TRADE FOR PRIME AND FINAL PAINT BY G.C. SEE ARCH. SPECIFICATIONS.

MECHANICAL SYMBOLS	
18/12	RECTANGULAR DUCT 18" WIDE BY 12" DEEP
12"	12" DIAMETER ROUND DUCT
	SUPPLY DUCT IN SECTION
	RETURN OR EXHAUST DUCT IN SECTION
	ELBOW WITH TURNING VANES
	TEE WITH TURNING VANES
	ROUND (OR OVAL) ELBOW
	SUPPLY AIR DIFFUSER WITH ROUND SUPPLY DUCT
	RETURN OR EXHAUST AIR DIFFUSER WITH ROUND DUCT
	DIFFUSER OR GRILLE TYPE BRANCH DUCT & NECK SIZE CFM
	T RTU# THERMOSTAT
	RTU# REMOTE TEMPERATURE SENSOR
	DOOR UNDERCUT
	FD FIRE DAMPER (FD)
	S SMOKE DETECTOR
	GAS COCK
	MANUAL VOLUME DAMPER
AFF	ABOVE FINISHED FLOOR
FD/SD	COMBINATION FIRE/SMOKE DAMPER
	EXHAUST FAN
	M MOTORIZED DAMPER

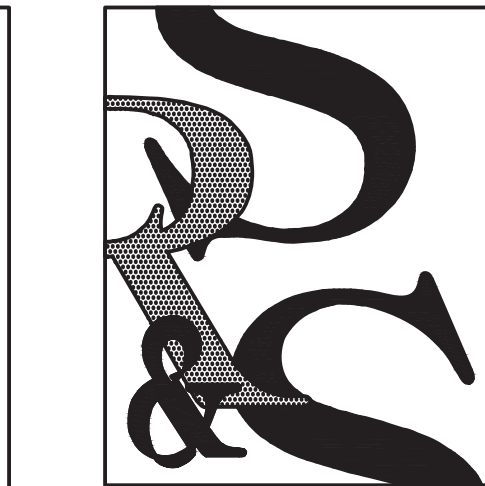
GENERAL NOTES	
1.	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AS ARE NECESSARY FOR THE COMPLETE INSTALLATION OF THE MECHANICAL SYSTEMS.
2.	PROJECT SHALL BE COORDINATED WITH THE EXISTING BUILDING MECHANICAL SYSTEMS AND SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FUNCTIONAL MECHANICAL SYSTEMS, WHETHER OR NOT SPECIFICALLY NOTED ON THE PLANS OR IN SPECIFICATIONS. DRAWINGS ARE DIAGRAMMATIC AND DO NOT INCLUDE EXACT FIELD DIMENSIONS OR ALL REQUIRED OFFSETS, TRANSITIONS, ETC.
3.	DO NOT SCALE DRAWINGS. COORDINATE WITH ALL OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO THE ARCHITECT FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN OR INSTALLATION.
4.	ALL WORK SHALL BE PERFORMED BY LICENSED MECHANICS OR UNDER THEIR DIRECT SUPERVISION.
5.	INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS UNLESS OTHERWISE SHOWN ON PLANS.
6.	LABEL ALL MECHANICAL EQUIPMENT TO MATCH CALLOUTS ON MECHANICAL EQUIPMENT SCHEDULES. (FCU/CU, ZONE DAMPERS, AND ELECTRIC HEATING COILS).
7.	PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF MECHANICAL EQUIPMENT AND SYSTEMS.
8.	ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO THE INSTALLATION OF ANY EXPOSED WORK, THE CONTRACTOR SHALL VERIFY LOCATION AND EXTENT OF WORK AND OBTAIN APPROVAL FROM ARCHITECT.
9.	CONTRACTOR SHALL LOCATE AND PROVIDE FOR INSTALLATION BY OTHERS (EXCEPT DUCT ACCESS DOORS), ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, DAMPERS, MOTORS, ETC., AND THE PROPER SERVING OF EQUIPMENT AND PIPING INSTALLED UNDER THIS CONTRACT.
10.	ALL EQUIPMENT STARTUP AND TESTING SHALL BE PERFORMED BY A TRAINED AND LICENSED SERVICE TECHNICIAN.
11.	ALL SUPPLY AND RETURN DUCTWORK SHALL BE SEALED PER SMACNA STANDARDS, INCLUDING BOTH TRANSVERSE AND LONGITUDINAL JOINTS. ALL SUPPLY AND RETURN DUCTWORK SHALL BE WRAPPED WITH 1 1/2" DUCT WRAP WITH VAPOR BARRIER. DUCT SIZES NOTED ON PLANS ARE NET INSIDE FREE AREA AND DO NOT INCLUDE ALLOWANCE FOR INSULATION.
12.	PROVIDE SYSTEM AIR BALANCE PER SPECIFICATION SECTION 15990 - TESTING, ADJUSTING, AND BALANCING.
13.	SMOKE, FIRE, AND COMBINATION SMOKE/FIRE DAMPERS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. COMBINATION SMOKE/FIRE DAMPERS SHALL BE FURNISHED WITH REMOTE COMMAND STATION EQUIPPED WITH TEST SWITCH, THERMAL TEST RESET SWITCH, AND OPEN/CLOSE PILOT LIGHT INDICATORS. UNITS SHALL BE 120 VOLT AND ALL ASSOCIATED WIRING AND FIRE ALARMS AND SMOKE DETECTORS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL DUCT ACCESS DOORS REQUIRED FOR FIRE DAMPERS, COMBINATION SMOKE/FIRE DAMPERS, AND DUCT SMOKE DETECTORS.
14.	MECHANICAL CONTRACTOR SHALL FURNISH, INSTALL, AND TEST AND VALIDATE ALL TEMPERATURE CONTROLS AND DEVICES AND ALL ASSOCIATED WIRING BELOW 120 VOLTS.
15.	CONTRACTOR SHALL INCLUDE SERVICE AGREEMENT FOR HVAC EQUIPMENT IN CONTRACT BID PROPOSAL. THE SERVICE AGREEMENT SHALL EXTEND THROUGH FIVE YEARS FROM THE DATE OF FACILITY ACCEPTANCE BY DAVITA. CONTRACTOR SHALL PERFORM ALL ROUTINE MAINTENANCE AND INSPECTION FOR HVAC EQUIPMENT AS REQUIRED BY EQUIPMENT MANUFACTURER DURING THE FIRST FIVE YEARS OF SERVICE. CONTRACTOR SHALL SUBMIT A SCHEDULE OF PLANNED MAINTENANCE AND INSPECTION WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL.
16.	CONTRACTOR SHALL REPLACE ALL FILTERS EVERY 3 MONTHS FOR ONE YEAR FROM THE DATE OF FACILITY ACCEPTANCE BY DAVITA.
17.	CONTRACTOR SHALL PROVIDE A COPY OF ALL MAINTENANCE REPORTS AND GUARANTEE REPAIRS DURING THE FIRST FIVE YEARS OF SERVICE TO THE DAVITA PROJECT MANAGER.
18.	CONTRACTOR SHALL PREPARE AND DELIVER TO THE DAVITA FACILITY MANAGER A PRICE PROPOSAL FOR AN ANNUAL SERVICE AGREEMENT FOR ALL MECHANICAL EQUIPMENT INSTALLED WITHIN THE FACILITY (BEYOND THE FIVE YEAR SERVICE AGREEMENT REQUIRED BY THE BID DOCUMENTS).
19.	PROVIDE AND INSTALL DUCT DETECTORS IN RETURN DUCTS. DUCT DETECTORS SHALL BE CONNECTED TO FIRE ALARM SYSTEM BY FIRE ALARM CONTRACTOR.
20.	THE CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH STRUCTURAL AND VERIFY UNIT IS MINIMUM 10 FEET FROM ANY ROOF EDGE UNLESS PARAPET OR GUARD RAIL IS PROVIDED AT MINIMUM 42" HEIGHT OR PER LOCAL CODE

HVAC CONTROL SETTINGS	
EACH HVAC UNIT SHALL BE PROVIDED WITH CONTROLS AS FOLLOWS:	
THERMOSTAT: COMMERCIAL 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTOMATIC SWITCHOVER, MANUAL OVERRIDE AND REMOTE TEMPERATURE SENSOR.	
ALL THERMOSTATS SHALL HAVE MANUAL OVERRIDE AND LOCKING COVER.	
EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS: CONTRACTOR SHALL DETERMINE OCCUPIED PERIOD FROM OWNER.	
FAN OPERATION SHALL BE CONTINUOUS DURING OCCUPIED PERIOD AND CYCLE WITH COOLING/HEATING DURING UNOCCUPIED PERIOD.	
PROGRAMMED SETPOINTS (FOR EACH THERMOSTAT):	
COOLING OCCUPIED: 75 DEGREES F.	
COOLING UNOCCUPIED: 80 DEGREES F.	
HEATING OCCUPIED: 72 DEGREES F.	
HEATING UNOCCUPIED: 67 DEGREES F.	
NOTE: DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.	

FAN SCHEDULE						
TAG	EF-1					
MANUFACTURER	GREENHECK					
LOCATION	TOILET					
MODEL NO.	70C150H					
AIR FLOW-CFM	75					
EXT.STATIC PRESS.-IN. WG.	0.2					
TYPE	ROOF					
FAN TYPE	DOWNBLAST					
DRIVE TYPE	DIRECT					
FAN RPM	1550					
SOUND-SONES	1.8					
MOTOR	HP	55.2 W				
	RPM	1550				
	VOLTAGE	115				
	PHASE	1				
ELECTRICAL	HERTZ	60				
	WEIGHT - LBS	17				
REMARKS	1,2,3,4,5,6,7					
REMARKS:						
1. PROVIDE ROUND DUCT UP TO WEATHER PROOF ROOF CAP WITH BIRDSCREEN. REF PLANS FOR DUCT SIZES.						
2. FAN SHALL RUN CONTINUOUSLY 24HRS/DAY, 7 DAYS/WEEK.						
3. FURNISH WITH FACTORY MOUNTED DISCONNECT						
4. FURNISH WITH GRAVITY BACKDRAFT DAMPER AND BIRDSCREEN.						
5. ROOF CURB PROVIDED BY GENERAL CONTRACTOR, REFER TO SPECIFICATIONS.						
6. FURNISH WITH FACTORY PRE-WIRED FAN SPEED CONTROLLER.						
7. FASTEN THE BASE OF EQUIPMENT TO ROOF CURB WITH (8) #10 SET SCREWS AND NEOPRENE / SS BONDED WASHERS (2 PER SIDE).						

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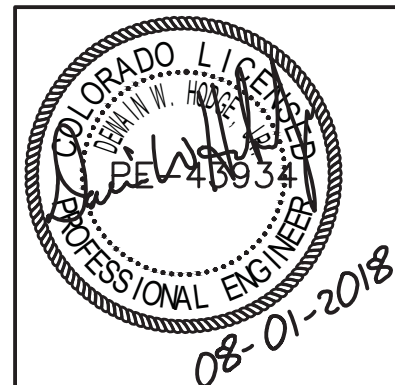


SEARER, ROBBINS & STEPHENS, INC.
ARCHITECTURE INTERIORS PLANNING
1700 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020 (602) 277-1187 FAX (602) 277-9978

MECHANICAL SCHEDULES, DETAILS & NOTES

DRAWN _____ TE
CHECKED _____ JK
JOB NO. 1820
DATE AUGUST 1, 2018

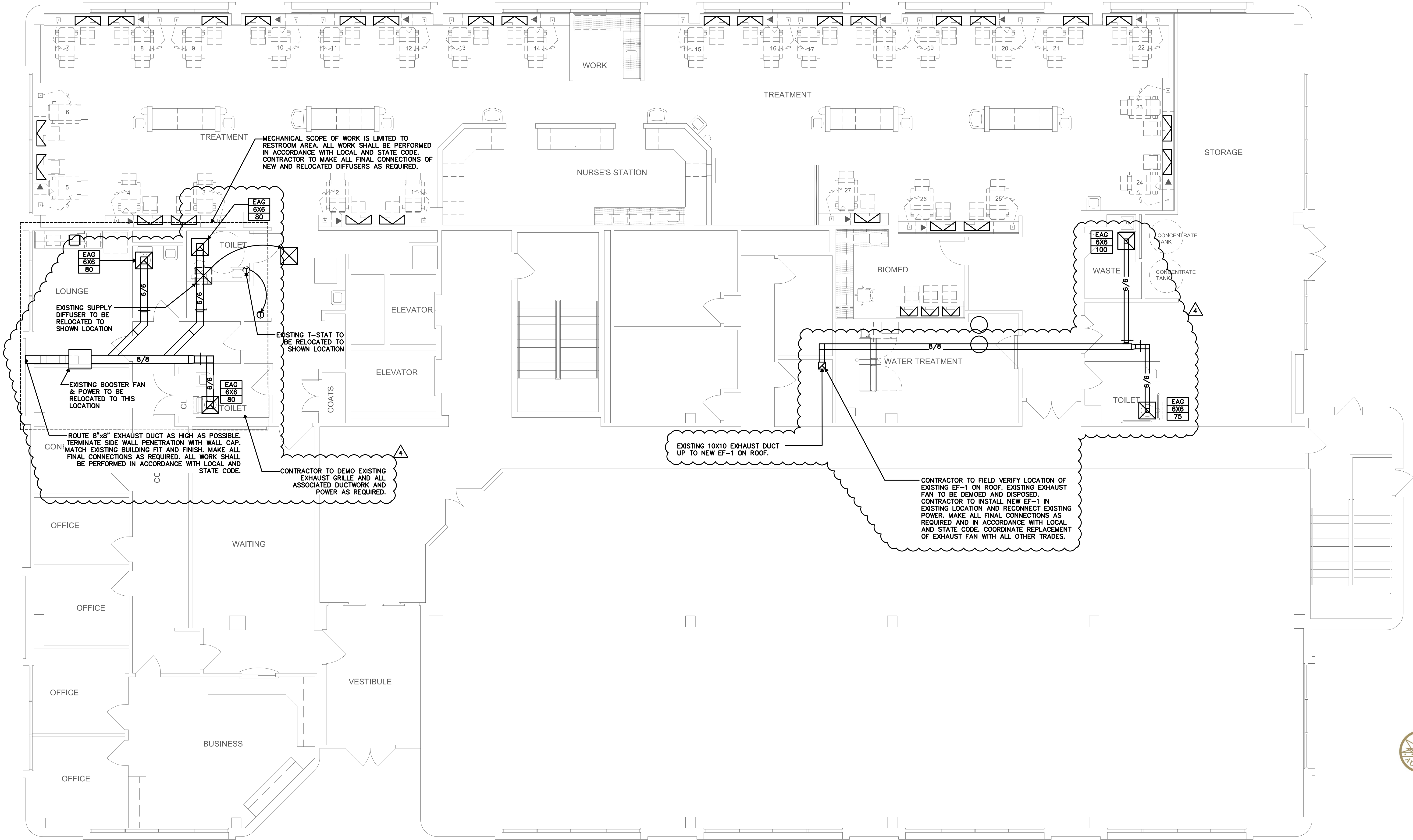
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Aurora Dialysis Center Upgrades
at
1441 South Potomac Street, Suite 100
Aurora, Colorado 80012

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SHEET NO.
M-1



HVAC PLAN

0 1 2 4 8
SCALE: 3/16" = 1'-0"



GRILLE, REGISTER, AND DIFFUSER SCHEDULE

TAG	EAG			
MANUFACTURER	PRICE			
MODEL NO.	PDDR			
SERVICE				
TYPE	EXHAUST			
FACE SIZE OR SLOT LENGTH - IN.	24X24			
NUMBER OF SLOTS / SIZE - IN.				
FINISH	WHITE			
REMARKS	2.5.7			

- NOTES: THIS SCHEDULE IS COMPREHENSIVE. ALL MARKS MAY OR MAY NOT BE USED ON THE PLANS
1. ADJUSTABLE AIR PATTERN CONTROLLERS. AIRFLOW ON BOTH SLOTS SHALL BE SET TO ONE DIRECTION AS INDICATED ON THE PLANS
 2. PROVIDE OPTIONAL CEILING DIFFUSER MOLDED INSULATION BLANKET.
 3. SLOT DIFFUSER SHALL BE EXTERNALLY INSULATED MODEL, WITH TWO 3/4" SLOTS.
 4. PROVIDE OPTIONAL T-BARS.
 5. PROVIDE WHITE POWDER COAT FINISH (INTERIOR ONLY FOR SLOT DIFFUSER).
 6. FURNISH WITH 12X12" DUCT CONNECTION.
 7. REFER TO PLANS FOR NECK SIZES AND QUANTITY.
 8. DOUBLE DEFLECTION GRILLE. ADJUST AIR PATTERN: VERTICAL (0° UP), HORIZONTAL (PER PLANS)

FAN SCHEDULE

TAG	EF-1		
MANUFACTURER	COOK		
LOCATION	ROOF		
MODEL NO.	90R15DH		
AIR FLOW-CFM	175		
EXT.STATIC PRESS.-IN. WG.	0.3		
TYPE	ROOF		
FAN TYPE	UPBLAST		
DRIVE TYPE	DIRECT		
FAN RPM	1065		
SOUND-SONES	3.3		
MOTOR	HP	1/8	
	RPM	1550	
ELECTRICAL	VOLTAGE	115	
	PHASE	1	
	HERTZ	60	
WEIGHT - LBS	21		
REMARKS	1,2,3,4,5		

- REMARKS:
1. PROVIDE ROUND DUCT UP TO WEATHER PROOF ROOF CAP WITH BIRDSCREEN. REF PLANS FOR DUCT SIZES.
 2. FAN SHALL RUN CONTINUOUSLY
 3. FURNISH WITH FACTORY MOUNTED DISCONNECT
 4. FURNISH WITH BACKDRAFT DAMPER.
 5. FURNISH WITH FACTORY PRE-WIRED FAN SPEED CONTROLLER.

GENERAL NOTES

1. ALL EXHAUST OUTLETS SHALL BE ABOVE THE ROOF LEVEL AND SHALL BE A MINIMUM OF 25FT FROM ANY FRESH AIR INTAKES OF VENTILATING SYSTEMS.
2. AIR HANDLING SYSTEMS SHALL NOT BE STARTED OR OPERATED WITHOUT MINIMUM OF MERV 8 FILTERS INSTALLED. ANY UNIT OPERATED WITHOUT PROPER FILTERS IN PLACE MUST HAVE DUCTWORK CLEANED IN CONFORMANCE WITH TEXAS ESRO REGULATIONS.

COORDINATION NOTES

1. REFER TO JOB SPECIFIC NOTES ON SHEET A-100.
2. MECHANICAL, PLUMBING, AND ELECTRICAL SUBCONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AND REFER TO ALL SHEETS IN THE SET FOR CONSTRUCTION CONDITIONS, NOT JUST THE DRAWINGS PERTAINING TO THEIR DISCIPLINE.
3. FINAL LOCATION OF ALL SURFACE FEATURES ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS AND/OR ARCHITECT PRIOR TO INSTALLATION.
4. ALL EXPOSED PIPE, CONDUIT, AND DUCTWORK TO BE PREPPED BY TRADE FOR PRIME AND FINAL PAINT BY G.C. SEE ARCH. SPECIFICATIONS.

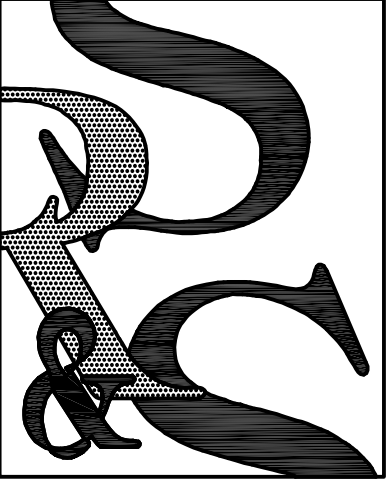
KEYNOTES

1. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING IDU. EXISTING IDU TO BE DEMOED AND DISPOSED. CONTRACTOR TO INSTALL NEW IDU IN EXISTING LOCATION. MAKE ALL FINAL CONNECTIONS AS REQUIRED AND IN ACCORDANCE WITH LOCAL AND STATE CODE. COORDINATE REPLACEMENT OF IDU WITH ALL OTHER TRADES.
2. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING ODU. EXISTING ODU TO BE DEMOED AND DISPOSED. CONTRACTOR TO INSTALL NEW ODU IN EXISTING LOCATION USING CURB ADAPTOR. MAKE ALL FINAL CONNECTIONS AS REQUIRED AND IN ACCORDANCE WITH LOCAL AND STATE CODE. COORDINATE REPLACEMENT OF ODU WITH ALL OTHER TRADES.
3. CONTRACTOR TO PROVIDE DIRECTIONAL BLOCK OFF PLATES TO EXISTING DIFFUSER.



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: **pmckown**
Date: **Sep 26, 2018**
2015 INTERNATIONAL CODES & 2017 NEC

RSN: 1322345
Permit #: 18-1529237 LT



SEARER, ROBBINS & STEPHENS, INC.
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1730 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020
(602) 277-1187 FAX (602) 277-9878

HVAC PLAN

DRAWN _____ TE
CHECKED _____ JVK
JOB NO. 1820
DATE AUGUST 1, 2018

REVISIONS
FIELD CHANGE 09/20/18



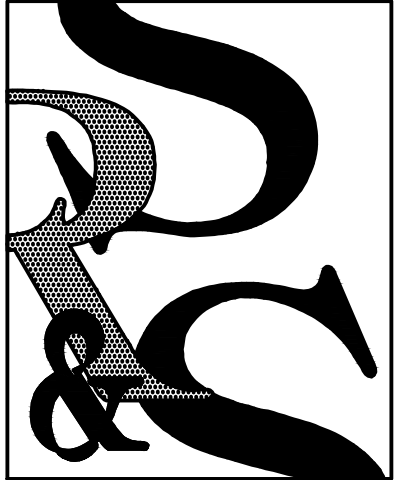
David
Aurora Dialysis Center Upgrades
1411 South Potomac Street, Suite 100
Aurora, Colorado 80012

SHEET NO.

M-2

PLUMBING FIXTURE SCHEDULE																			
TAG	WC-1		L-1		FD-1		WCO-1		S-1		S-2		GD-1		TMV2		TD		
FIXTURE TYPE	WATER CLOSET		LAVATORY		FLOOR DRAIN		WALL		SINK		SINK		GARBAGE				PRE-SLOPED		
									LOUNGE		CLEAN SINK		DISPOSAL				48" LONG AND 6-1/4" WIDE		
	FLOOR MOUNTED		WALL MOUNTED		6"		CLEAN OUT		COUN TER MOUNTED		COUNTER MOUNTED						4" THROAT		
FLUSH TANK		20" X18"						17" X 13" X 6"		15-11/16" X 15-11/16" X 8-3/16"						SMOOTH 1-1/2" SELF RADIUSD			
MATERIAL	VITREOUS CHINA		VITREOUS CHINA		CAST IRON												SELF CLEANING BOTTOM		
COLOR	WHITE		WHITE						CAMEO WHITE		CAMEO WHITE								
ADA COMPLIANT	YES		YES						YES		YES		INSINKERATOR						
MANUFACTURER	KOHLER		KOHLER		ZURN		ZURN		CORIAN		CORIAN		BADGER 1				ZURN		
MODEL	4304-0		K2005-0		FR06NI-CS-P2S-CC-VP		Z1470 OR Z146		5610		804						Z886-HHP-U4		
TRIM	VALVE	TYPE			THERMOSTATIC MIXING VALVE				THERMOSTATIC MIXING VALVE		THERMOSTATIC MIXING VALVE				THERMOSTATIC MIXING VALVE				
			MANUFACTURER		WATTS		ZURN		LAWLER		LAWLER		LAWLER						
		MODEL		LF1170-M2		ZN400BZ-VP		570		570				570					
		FLOWRATE		0.5 GPM				0.5 GPM		0.5 GPM				0.5 GPM					
		FINISH																	
	CARRIER	MANUFACTURER			ZURN														
			MODEL		Z-1231														
	SEAT	MANUFACTURER	PROFLO																
			MODEL		PFTSCOFZA2000WH														
	FINISH		ANTI-MICROBIAL																
	FAUCET	TYPE			HARDWIRED SENSOR OPERATED FAUCET				MANUAL FAUCET SWING SPOUT WITH SPRAYER HEAD		BATTERY POWERED SENSOR OPERATED FAUCET								
			MANUFACTURER		ZURN				ZURN		ZURN								
			MODEL		Z6-13-F-CWB-HW6-CP4				ZB31J1-XL-HCT-HS-ICT-4F		Z6-20-XL-K-CP6-GC								
			FLOWRATE		0.5 GPM				2.2 GPM		1.0 GPM								
			FINISH		CHROME				CHROME		CHROME								
		DRAIN	TYPE			GRID STRAINER				OFFSET DRAIN									
				MANUFACTURER		PROFLO				PROFLO									
MODEL			PFGD101				PFOD100												
FINISH			CHROME				CHROME												
P-TRAP													120V, 60 Z, 1/3 HP						
MISCELLANEOUS		TANK								BASKET STRAINER		PVC							
		KOHLER 4484-0				RECTORSEAL SURESEAL				PROFLO PF1435		STRAINER						RECTORSEAL HEAVY-DUTY DURA-COATED CAST IRON GRATE	
											PROFLO PF1435								
WASTE □ VENT		ABOVE GROUND		4"		2"		2"		NOTED		2"		2"				4"	
ROUGH-IN SIZES - IN.		BELOW GROUND		4"		2"		2"		NOTED		2"		2"				4"	
		VENT		2"		2"		2"		--		2"		2"				2"	
WATER SUPPLY		COLD		1"		1/2"		--		--		1/2"		1/2"				--	
ROUGH-IN SIZES - IN.		HOT		--		1/2"		--		--		1/2"		1/2"				--	
		TEMPERED		--		--		--		--		--		--				--	
REMARKS		--		1,2		--		--		1,2		1,2						--	
REMARKS																			
1. PROVIDE M:GUIRE 155WC OFFSET CHROME PLATED CAST BRASS DRAIN, SEAMLESS BRASS TAILPIECE W/ CAST BRASS LOCKNUT, M:GUIRE 8:02 1 1/2" □ 1 1/2" PVC ADJUSTABLE P TRAP W/ CLEANOUT PLUG, M:GUIRE 170LN CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE □ LOOSE KEY, FLEXIBLE CHROME PLATED COPPER RISERS, TRUEBRO LAV-GUARD PVC TYPE INSULATION AROUND "P" TRAP AND IPS CONNECTIONS																			
2. INSTALL MIXING VALVE ABOVE CEILING IN ACCESSIBLE LOCATION. SET HOW WATER DELIVERY TO 110 DEG. F.																			
3.THE UNIT SHALL BE REINFORCED WITH A FIBERGLASS STRANDPOLYESTER RESIN MIX. UNIT SHALL HAVE A BACKSIDE FIRE RATING OF "B" AND A FLAME SPREAD OF 75. UNIT SHALL BE FURNISHED WITH AN ANTI-SKID FLOOR TREATMENT TO MEET PERFORMANCE REQUIREMENTS OF ASTM F-4621-78, AND SHALL ALSO CONFORM WITH ANSI A-117.1 AND ANSI Z-124.2. UNIT SHALL BE INSTALLED IN A PIT SO THAT THE FINISHED FLOOR WILL BE LEVEL WITH THE TOP OF THE THRESHOLD. UNIT SHALL INCLUDE THE FOLLOWING FACTORY INSTALLED ITEMS: GRAB BARS, 24 GLIDE RAIL, FOLD-UP TRANSFER SEAT WITH WOOD GRAIN PHENOLIC SLATES, AND CURTAIN AND SHOWER DRAIN.																			
4. PRESSURE BALANCING SHOWER VALVE WITH INTEGRAL CHECKSTOPS, STAINLESS STEEL TRIM, PERSONAL HAND SHOWER, SWIVEL CONNECTOR, 60 METAL HOSE, OUTLET ELBOW AND VACUUM BREAKER. ASSE 1016, IAPMO CUPC LISTINGS.																			
5.PERSONAL HAND SHOWER WITH SHUT-OFF AND MODEL SS15-Y010-60 HAND SHOWER HOSE (60" LONG). HAND SHOWER SHALL HAVE A FLOW RATE OF 2.0 GPM. SHOWER ASSEMBLY SHALL INCLUDE 24" GLIDE RAIL WALL ELBOW, SWIVEL CONNECTOR AND INLINE VACUUM BRAKER.																			

PLUMBING SYMBOLS	
	SANITARY SEWER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	STORM SEWER
	TEMPERED WATER
	COMPRESSED AIR
	NATURAL GAS
	CONDENSATE DRAIN
	PLUMBING VENT
	UNION
	ELBOW - TURNED DOWN
	ELBOW - TURNED UP
	TEE - TURNED DOWN
	PLUG VALVE
	CHECK VALVE
	TEE - TURNED UP
	BALL VALVE
	SHUT-OFF VALVE IN VERTICAL LINE
	BACKFLOW PREVENTER
	WATER METER
	WATER HAMMER ARRESTOR
	T & P RELIEF VALVE
	FLOOR DRAIN
	ROOF DRAIN/OVERFLOW ROOF DRAIN
	FLOOR CLEANOUT
	YARD CLEANOUT
	FREEZE PROOF WALL HYDRANT
	HOSE BIBB
	WALL CLEANOUT
	GAS PRESSURE REGULATOR
	GAS COCK
	AIR ADMITTANCE VALVE
	THERMOSTATIC MIXING VALVE
	CONNECT TO EXISTING



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REVISIONS
1 OWNER CHANGES 08/28/18



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SHEET NO.
P-1

ELECTRIC WATER HEATER			
TAG	EAH-1	EAH-2	
MANUFACTURER	AO SMITH	AO SMITH	
MODEL NO.	DEN-120	DEN-66	
CAPACITY - GALLONS	100	66	
RECOVERY - GPH AT 100 DEG. F. TEMPERATURE RISE	4	4	
HEATING ELEMENT	NUMBER	2	2
	KW - EACH	6	6
	MAX DEMAND KW	12	12
ELECTRICAL	VOLTAGE / PHASE / HZ	480 / 3 / 60	480 / 3 / 60
	FULL LOAD AMPS	21.6	21.6
REMARKS	1,2,3,5,6	1,2,4,5,7	
REMARKS:			
1. HEATING ELEMENT FOR SIMULTANEOUS OPERATION			
2. PROVIDE DRAIN PAN			
3. EWH-1 UNIT IS FOR DOMESTIC WATER			
4. EWH-2 IS FOR WATER TREATMENT			
5. PROVIDE MANUFACTURER'S CONDENSATE NEUTRALIZATION KIT			
6. EWH-1 UNIT IS :6: EFFICIENT			
7. EWH-2 UNIT IS :0: EFFICIENT			

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT LOCAL CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AS ARE NECESSARY FOR THE COMPLETE INSTALLATION OF THE PLUMBING SYSTEMS.
- PROJECT SHALL BE COORDINATED WITH THE EXISTING BUILDING SERVICES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS, WHETHER OR NOT SPECIFICALLY NOTED ON THE PLANS OR IN SPECIFICATIONS.
- DO NOT SCALE DRAWINGS. COORDINATE WITH ALL OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO THE ARCHITECT FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN OR INSTALLATION. RELOCATION OF PLUMBING SYSTEMS MADE PRIOR TO ROUGH-IN OR REQUIRED BY EXISTING FIELD CONDITIONS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER OR HIS AGENTS.
- ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED MECHANICS OR UNDER THEIR DIRECT SUPERVISION.
- INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS UNLESS OTHERWISE SHOWN ON PLANS.
- LABEL ALL EQUIPMENT AND PIPING AS INDICATED ON THE PLANS. INDICATE DIRECTION OF FLOW ON PIPING.
- PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF PLUMBING EQUIPMENT AND PIPING.
- ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO THE INSTALLATION OF ANY EXPOSED WORK, THE CONTRACTOR SHALL VERIFY LOCATION AND EXTENT OF WORK AND OBTAIN APPROVAL FROM ARCHITECT.
- PROVIDE PRESSURE REDUCING VALVE ASSEMBLY IN WATER SERVICE LINE WHERE PRESSURE EXCEEDS 65 PSIG. SET THE PRV STATION TO 65 PSIG MAXIMUM.

GENERAL NOTES

- PROVIDE SANITARY SEWER CLEANOUTS IN ACCORDANCE WITH LOCAL CODES. PROVIDE SHUTOFF VALVES IN BRANCH WATER PIPING EXTENDING FROM MAINS, THAT FEED GROUPS OF PLUMBING FIXTURES OR ISOLATED PLUMBING FIXTURES.
- CONTRACTOR SHALL LOCATE AND PROVIDE FOR INSTALLATION BY OTHERS, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, DAMPERS, MOTORS, ETC., AND THE PROPER SERVICING OF EQUIPMENT AND PIPING INSTALLED UNDER THIS CONTRACT.
- NO FLOOR CLEAN OUTS IN PATIENT AREAS. EXISTING CLEANOUTS TO BE CONVERTED TO WALL CLEANOUTS AND CAPPED AND ABANDONED UNDERSLAB.
- PIPING MATERIALS:
 - SANITARY WASTE & VENT PIPING: SCHEDULE 40 PVC PIPING AND FITTINGS.
 - DOMESTIC WATER PIPING, ABOVE GRADE: COPPER PIPING.
 - DOMESTIC WATER PIPING, BELOW GRADE: TYPE K COPPER WITH BRAZED JOINTS.
 - CONDENSATE DRAIN PIPING: TYPE M COPPER WITH SOLDERED JOINTS, OR SCHEDULE 40 PVC WITH SOLVENT JOINTS.
 - NATURAL GAS PIPING 2" AND SMALLER: SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS. FOR LARGER SIZES USE WELDED JOINTS AND FITTINGS.
 - REVERSE-OSMOSIS WATER PIPING LOOP: INSULATED 1" PEX PIPING. (OFC)
 - BI-CARBONATE LOOP: 3/4" DIAMETER PEX PIPE (FURNISHED BY MarCor AND INSTALLED BY CONTRACTOR).
 - THE TWO CONCENTRATE LOOPS: 3/4" DIAMETER PEX PIPE (FURNISHED BY MarCor AND INSTALLED BY CONTRACTOR).
 - PROCESS PIPING SUPPLY LINES TO EACH DIALYSIS BOX:
 - BICARB-KURI-TEC K3285, 1/4" I.D.
 - CONCENTRATE: KURI-TEC K3150-4, 1/4" I.D.
 - PROVIDE 3/8" STAINLESS STEEL HOSE CLAMPS BETWEEN KURI-TEC HOSE, SPEARS VALVES, AND DIALYSIS BOXES.

GENERAL NOTES

- LABEL PROCESS PIPING INDICATING TYPE OF FLUID AND FLOW DIRECTION AT 6"-0" ON CENTER AND AT EACH DIALYSIS BOX. USE LABELS AS MANUFACTURED BY SETON, OPTI-CODE, 8SM, OR EQUAL. (OFCF)
- DAVITA BIOMED SHALL INSTALL PROCESS PIPING BRANCHES, FROM VALVES TO DIALYSIS BOXES.
- FIRE STOP AND SEAL ALL PIPING MATERIALS PASSING THROUGH FIRE RATED STRUCTURES OR FIRE RATED ASSEMBLIES IN ACCORDANCE WITH THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. USE CURRENTLY LISTED U.L. CLASSIFIED PRODUCTS, TESTED BY ASTM E814.
- PIPING INSULATION: REFER TO SPECIFICATION SECTION 15260 - MECHANICAL INSULATION FOR INSULATION TYPES AND THICKNESS.
- PLUMBING FIXTURES: FURNISH AND INSTALL PLUMBING FIXTURES AS SPECIFIED AND SCHEDULED ON THE PLANS. SINKS IN DIALYSIS AREAS, ETC. SHALL HAVE SCHEDULE 40 PVC TRAPS AND TAILPIECES. P-TRAPS SHALL HAVE THREADED CONNECTIONS FOR CLEAN-OUT PURPOSES.
- REDUCED PRESSURE BACKFLOW PREVENTERS: FURNISH AND INSTALL REDUCED PRESSURE BACKFLOW PREVENTERS PRIOR TO MAKING DOMESTIC WATER CONNECTIONS TO WATER TREATMENT EQUIPMENT.
- ALL PIPING SUPPORT SHALL MEET OR EXCEED THE REQUIREMENTS LISTED IN TABLE 308.5 OF THE 2009 IFC AND BE IN COMPLIANCE WITH MSS SP-58.

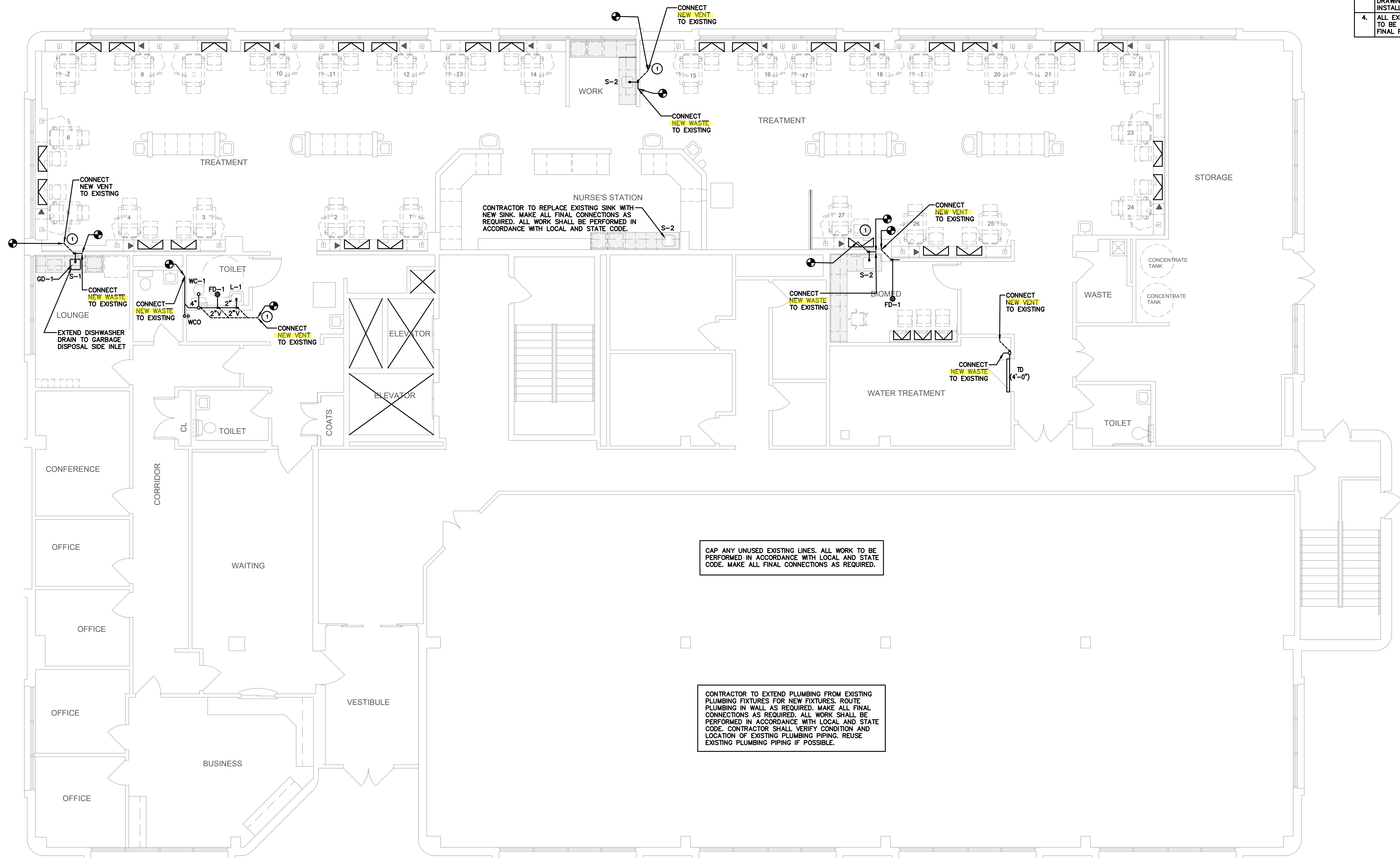
COORDINATION NOTES

- REFER TO JOB SPECIFIC NOTES ON SHEET A-100.
- MECHANICAL, PLUMBING, AND ELECTRICAL SUBCONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AND REFER TO ALL SHEETS IN THE SET FOR CONSTRUCTION CONDITIONS, NOT JUST THE DRAWINGS PERTAINING TO THEIR DISCIPLINE.
- FINAL LOCATION OF ALL SURFACE FEATURES ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS AND/OR ARCHITECT PRIOR TO INSTALLATION.
- ALL EXPOSED PIPE, CONDUIT, AND DUCTWORK TO BE PREPARED BY TRADE FOR PRIME AND FINAL PAINT BY G.C. SEE ARCH. SPECIFICATIONS.

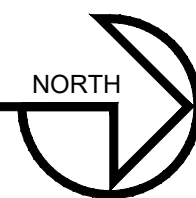
Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

COORDINATION NOTES

- | | |
|----|--|
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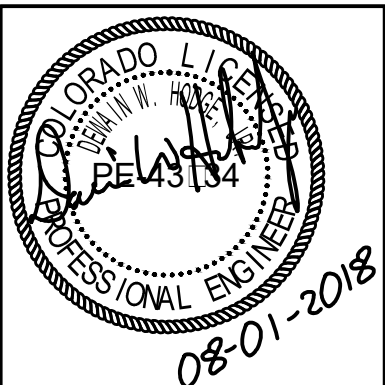
0 1 2 4 8 SCALE: 3/16" = 1'-0"



City of Aurora Building Division
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Date: Sep 26, 2018
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SHEET NO.

P-2

DRAWN _____ TE
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JOB NO. _____ 1820
DATE _____ AUGUST 1, 2018

REVISIONS

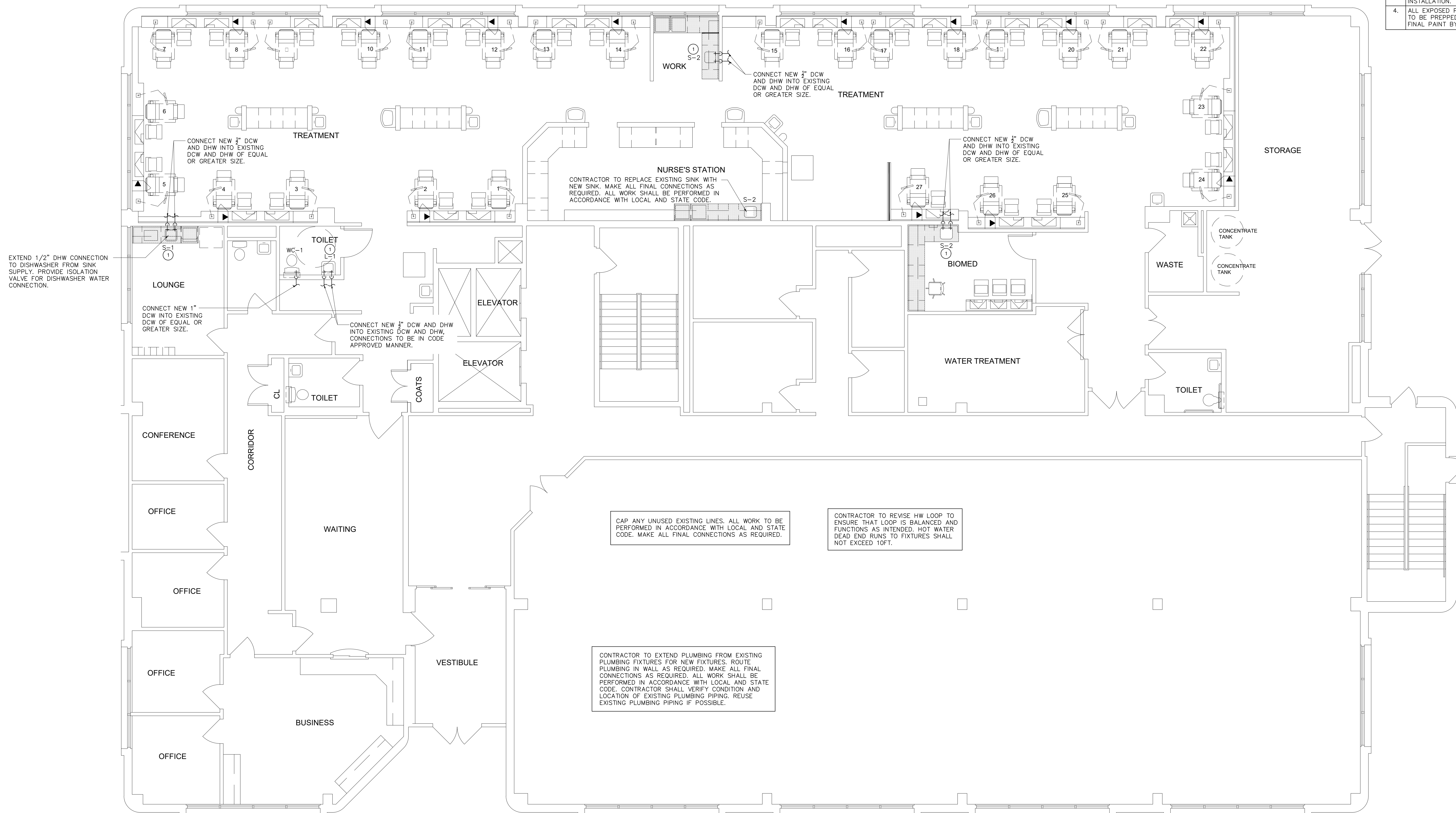
SANITARY PLUMBING FLOOR PLAN

KEYNOTES

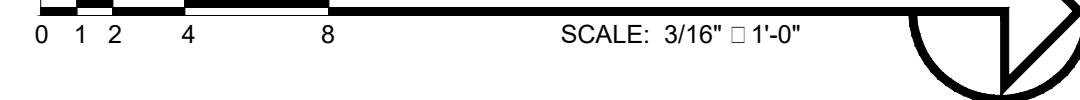
- | | |
|---|---|
| 1 | PROVIDE THERMOSTATIC MIXING VALVE (TMV2) UNDER SINK. REFER TO PLUMBING SCHEDULE FOR MAKES AND MODEL. SET TEMPERATURE TO 105° F. |
|---|---|

COORDINATION NOTES

- | | |
|----|--|
| 1. | REFER TO JOB SPECIFIC NOTES ON SHEET A-100. |
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| 3. | FINAL LOCATION OF ALL SURFACE FEATURES ARE TO BE VERIFIED AGAINST ALL STRUCTURAL DRAWINGS AND/OR ARCHITECT PRIOR TO INSTALLATION. |
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DOMESTIC WATER PLAN



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: **William Griffin**
Date: **Sep 26, 2018**
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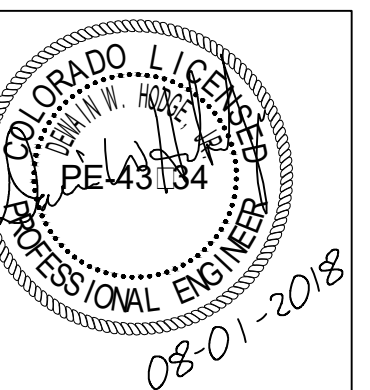
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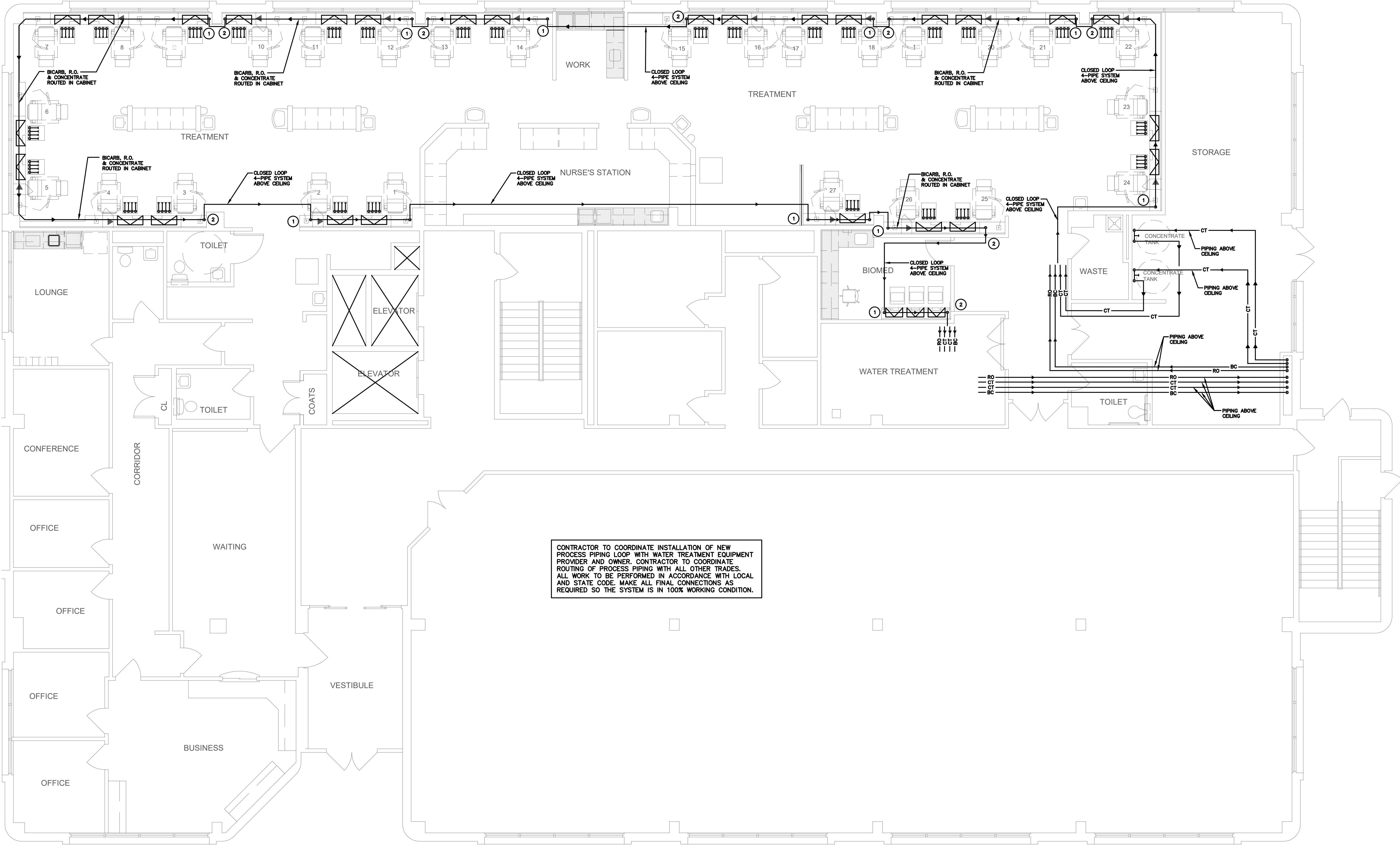
REVISIONS



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at
Aurora Dialysis Center Upgrades
1411 South Potomac Street, Suite 100
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SHEET NO.
P-3

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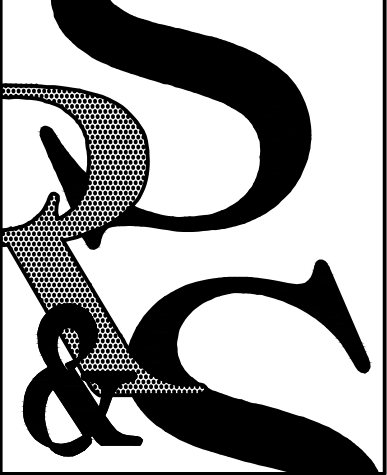


PROCESS PIPING PLAN
0 1 2 4 8
SCALE: 3/16" = 1'-0"
NORTH

KEYNOTES	
1	BICARB, R.O., AND CONCENTRATE LINES DOWN IN WALL FROM CEILING TO CABINET.
2	BICARB, R.O., AND CONCENTRATE LINES UP IN WALL FROM CABINET TO CEILING.

PROCESS PIPING LEGEND	
RO	REVERSE OSMOSIS — 1" INSULATED PEX RO (OFC) WITH CLEANPEX BOX CONNECTION TEE PROVIDED BY WATER TREATMENT EQUIPMENT SUPPLIER.
BC	BICARB — 5/8" BICARB WITH TEE AND 1/4" LABCOCK VALVES (BOX PROVIDED BY DAVITA)
CT	CONCENTRATE — 5/8" CONCENTRATE WITH TEE AND 1/4" LABCOCK VALVE (BOX PROVIDED BY DAVITA)

COORDINATION NOTES	
1.	REFER TO JOB SPECIFIC NOTES ON SHEET A-100.
2.	MECHANICAL, PLUMBING, AND ELECTRICAL SUBCONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AND REFER TO ALL SHEETS IN THE SET FOR CONSTRUCTION CONDITIONS, NOT JUST THE DRAWINGS PERTAINING TO THEIR DISCIPLINE.
3.	FINAL LOCATION OF ALL SURFACE FEATURES ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS AND/OR ARCHITECT PRIOR TO INSTALLATION.
4.	ALL EXPOSED PIPE, CONDUIT, AND DUCTWORK TO BE PREPPED BY TRADE FOR PRIME AND FINAL PAINT BY G.C. SEE ARCH. SPECIFICATIONS.



SEARER, ROBBINS & STEPHENS, INC.
ARCHITECTURE INTERIORS PLANNING
1730 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85033 (602) 277-1187 FAX (602) 277-9979

DRAWN _____ TE
CHECKED _____ JVK
JOB NO. 1820
DATE AUGUST 1, 2018

REVISIONS

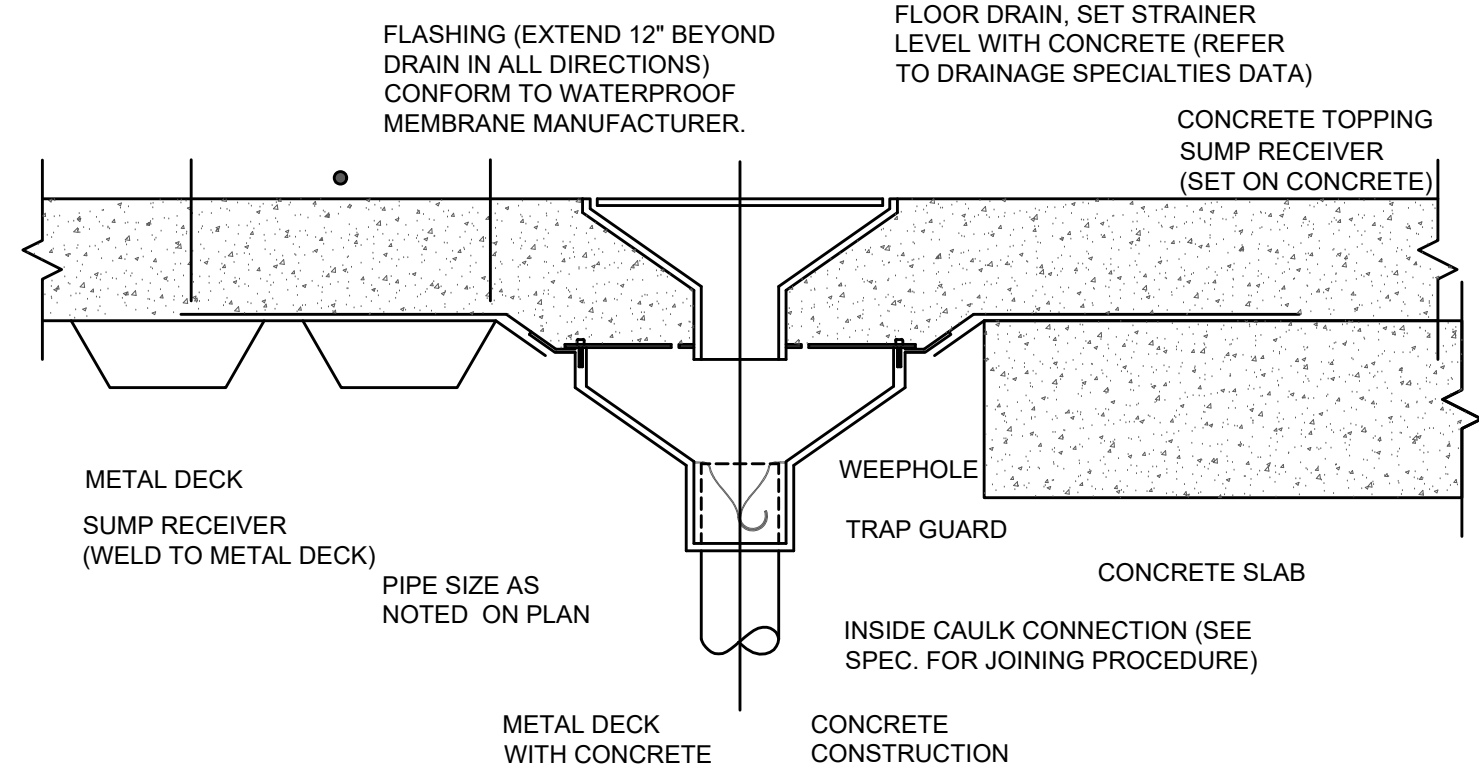


Davita
at
Aurora Dialysis Center Upgrades
1411 South Potomac Street, Suite 100
Aurora, Colorado 80012

SHEET NO.
P-4

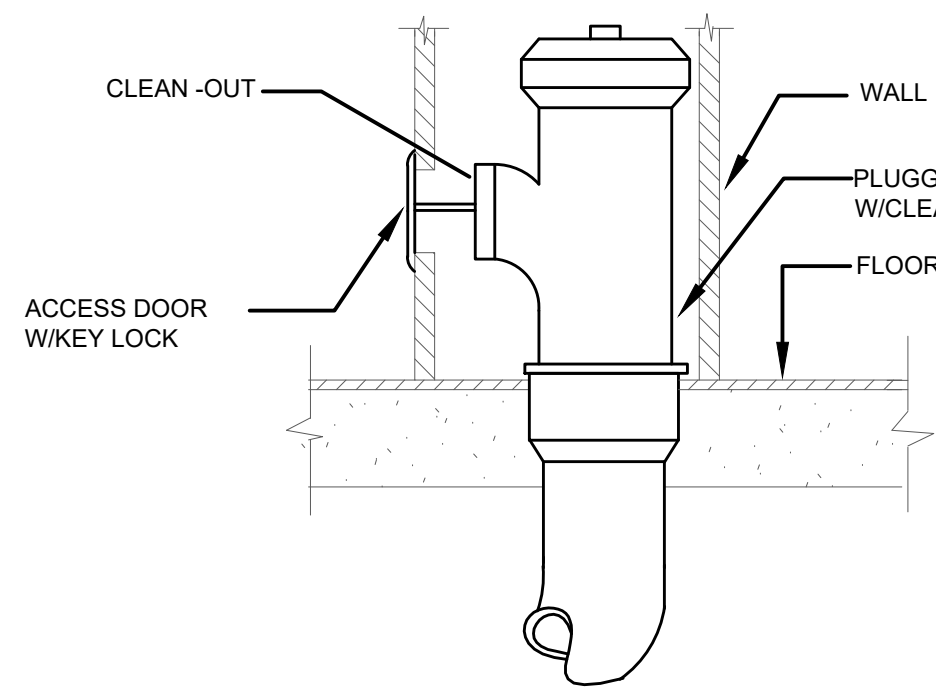
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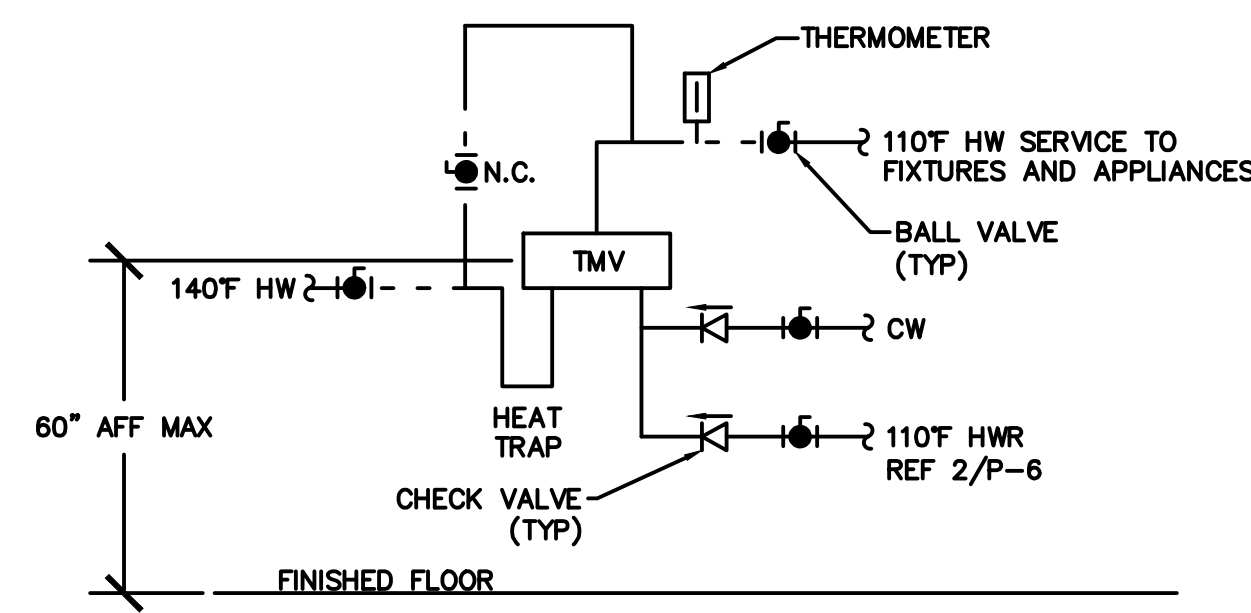
1 FLOOR DRAIN DETAIL

SCALE: N.T.S.



2 WALL/STACK CLEANOUT DETAIL

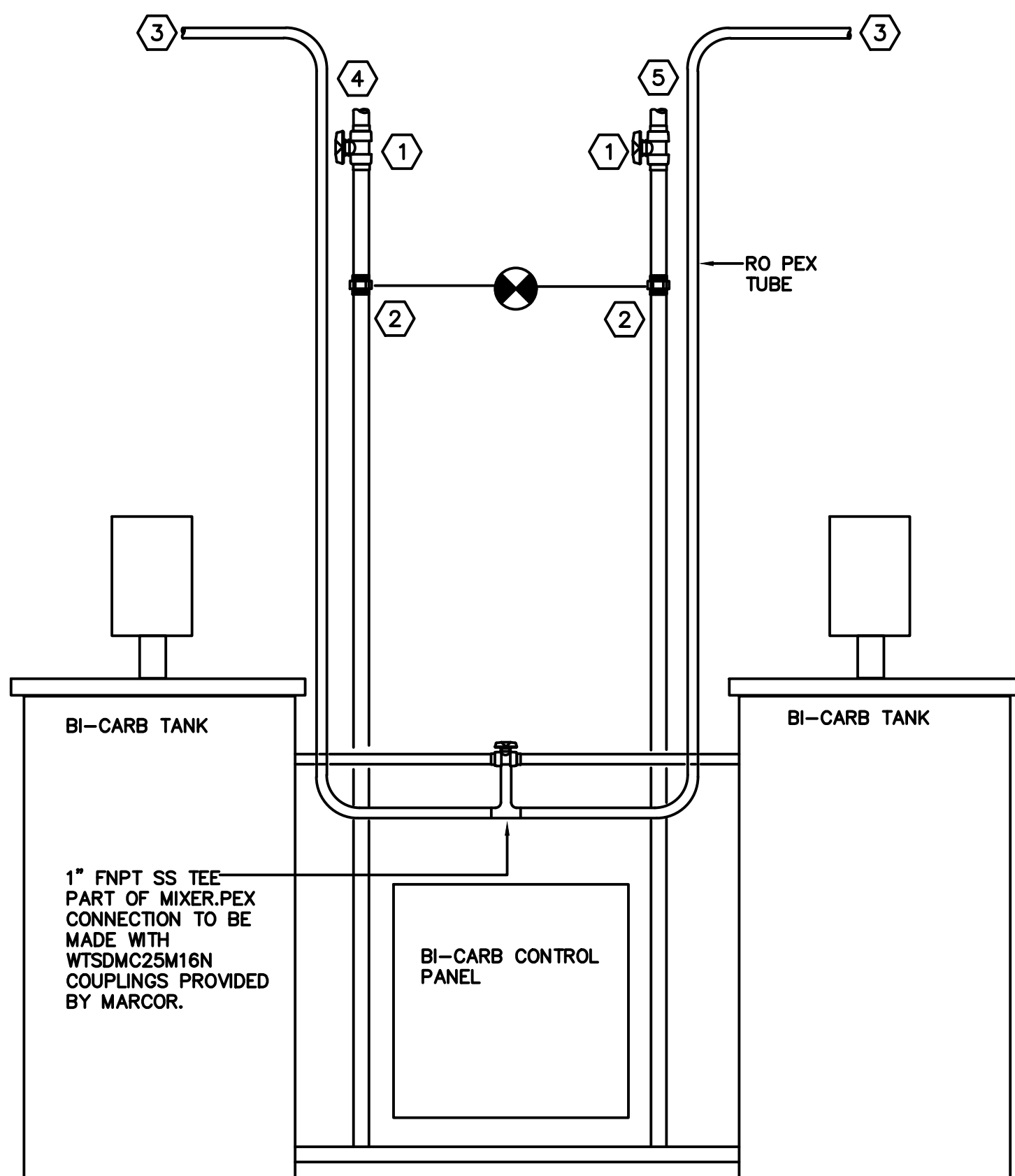
SCALE: N.T.S.



3 WALL MOUNTED TMV

SCALE: N.T.S.

Provide for thermal expansion on hot-water supply system as required by 2015 IPC 607.3 or IRC 2903.4



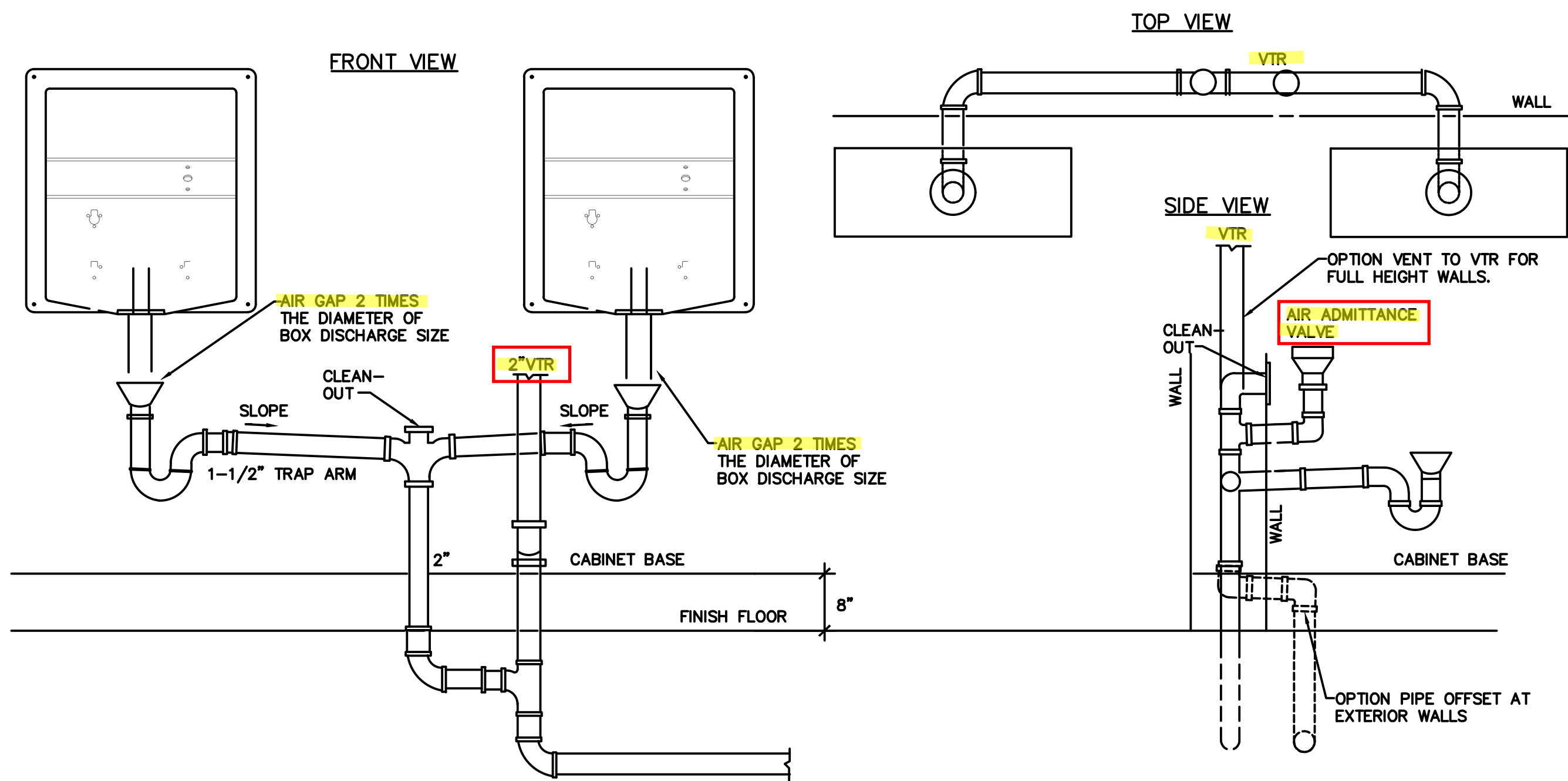
NOTE:
DIMENSIONS SHOWN ARE APPROXIMATE. FINAL CONNECTIONS SHOULD BE MADE WHEN EQUIPMENT IS SET AND LEVELED.

DRAWING NOTES:

- 1 3/4"SPACE TRUE UNION BALL VALVE
- 2 3/4" UNION PROVIDED BY EQUIPMENT PROVIDER
- 3 1" RO PEX PIPE LOOP
- 4 5/8" BI-CARB PEX IN
- 5 5/8" BI-CARB PEX OUT

4 CENTRAL BI-CARB R.O. & B.C. CONNECTION DIAGRAM

SCALE: N.T.S.



5 WATER TREATMENT BOX WASTE PIPE

SCALE: N.T.S.

Provide drains no smaller than allowed by 2015 IPC 709.1 and 710.1(1)

The dry vent must rise 6" vertically above the flood level rim of the highest trapped fixture being vented. 2015 IPC 905.4

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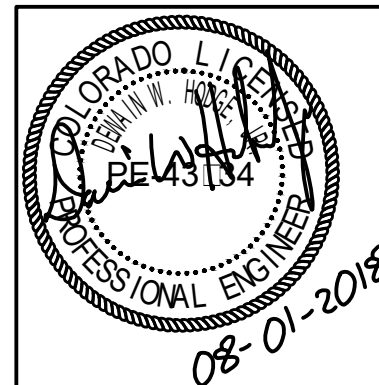


City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: William Griffin
Date: Sep 26, 2018
2015 INTERNATIONAL CODES & 2017 NEC

RSN: 1322345
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DaVita
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ARCHITECTURE
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PLUMBING DETAILS

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
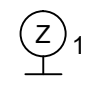
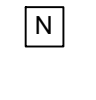

REVISIONS

SHEET NO.
P-5

LIGHTING FIXTURE SCHEDULE							
QTY.	TYPE	MANUFACTURER/MODEL	DESCRIPTION	LAMP	WATTS	VOLTS	NOTES
1	E	JUNO - TC-22LEDG4-35K-U-BR	6" LED DOWNLIGHT W/EM	LED	18	120	1
1	H	LITHONIA - WL2-25L-D24-LP835-NX	2" SURFACE MOUNTED LIGHT FIXTURE	LED	24	120	
LIGHTING NOTES: 1. FIXTURE UTILIZES AN EMERGENCY BATTERY BACKUP SYSTEM AND SHALL PROVIDE A MINIMUM OF 1 FOOT CANDLE FOR :0 MINUTES OF BACKUP POWER. 2. CONTRACTOR TO WIRE TWO LAMPS TO EMERGENCY BALLAST.							
GENERAL NOTES: A. EC SHALL PROVIDE ALL ACCESSORIES FOR A COMPLETE ASSEMBLY INCLUDING MOUNTING HARDWARE. B. THE MOUNTING TYPE OF EACH FIXTURE SHALL BE COMPATIBLE WITH INSTALLATION SURFACE OF EACH FIXTURE. C. ALL FINISHES SHALL BE COORDINATED WITH ARCHITECT AND DOCUMENTED ON SUBMITTALS. D. PROVIDE BALLAST (EQUAL TO BODINE B50). BATTERIES : CHARGER FOR EMERGENCY OPERATION. E. PROVIDE A COLD WEATHER RATED BALLAST FOR OUTDOOR APPLICATIONS.							

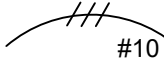
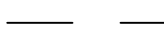
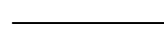













LIGHTING FIXTURES PROVIDED BY DAVITA CED NATIONAL ACCOUNTS. CONTRACTOR TO INSTALL.











CONTRACTOR NOTE:
CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID. AND INCLUDE ALL ADDITIONAL COSTS IN THEIR BID. ELECTRICAL CONTRACTOR TO VERIFY AND INFORM THE ARCHITECT / ELECTRICAL ENGINEER OF ANY DISCREPANCIES FOUND IMMEDIATELY.
CONTRACTOR SHALL COORDINATE ALL UTILITY REQUIREMENTS WITH UTILITY COMPANY PRIOR TO BID. FURNISH AND/OR INSTALL ALL MATERIAL AND FURNISH ALL LABOR NECESSARY TO COMPLY WITH UTILITY REQUIREMENTS FOR THE UTILITY PRIMARY, SECONDARY AND METERING.

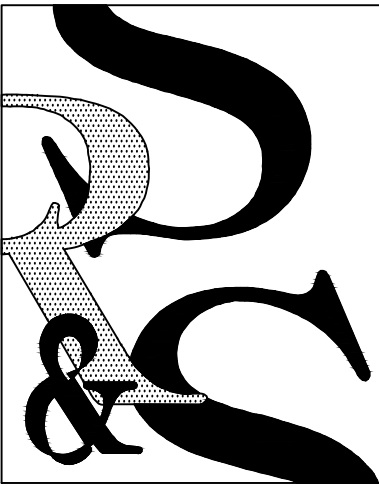
NURSE CALL SYSTEM	
CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM FROM CORNELL AS SPECIFIED. ALTERNATE MANUFACTURERS FOR NURSE CALL SYSTEM WILL NOT BE ACCEPTED.	
TRANSFORMER, ANNUNCIATOR STATION, PULL SWITCHES, AND EMERGENCY CALL LIGHTS TO BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. LABEL ANNUNCIATOR STATION EMERGENCY CALL LIGHTS ACCORDING TO LOCATION OF CORRESPONDING PULL SWITCH (USE ROOM NAME AND NUMBER). POWER SUPPLY SHALL BE CORNELL P-5122K3A.	
	LOCAL ALARM: CORNELL LS-201 STROBE/SOUNDER WITH COLOR INDICATED. PROVIDE BOOTS FOR EACH ZONE WITH COLORS INDICATED BELOW: 1 - CORNELL 4720-005, YELLOW, WAITING/WAITING TLT - NOT USED 2 - CORNELL 4720-003, BLUE, EXAM ROOM - NOT USED 3 - CORNELL STANDARD, WHITE, TREATMENT ROOM TLT 4 - CORNELL 4720-001, RED, PD/HOME TREATMENT - NOT USED 5 - CORNELL 4720-002, GREEN, HUDDLE ROOM - NOT USED 6 - CORNELL 4720-004, AMBER, PRIVATE - NOT USED
	ZONE ALARM: CORNELL LS-201 STROBE/SOUNDER WITH COLOR INDICATED. PROVIDE SAME COLOR AS LOCAL STROBES.
	CORNELL E-104-1 PULL STRING STATION, WIRE TO LOCAL STROBE AND ZONE STROBE OF SAME COLOR LOCATED IN PATIENT TREATMENT AREA. PROVIDE CORNELL SP-ST PULL RIBBON.
	CORNELL 4000 SERIES ANNUNCIATOR, ANNUNCIATOR IN PATIENT TREATMENT AREA SHALL BE CONNECTED TO ALL ALARMS IN THE BUILDING.

GENERAL NOTES	
1.	ALL ELECTRICAL CONDUIT, DEVICES AND EQUIPMENT ARE SHOWN DIAGRAMMATICALLY. DO NOT SCALE. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION PRIOR TO ANY ROUGH IN.
2.	ALL CIRCUITS SHALL BE MINIMUM #12 THHN/THWN COPPER W/12 COPPER BOND IN 1/2" CONDUIT UNLESS NOTED OTHERWISE. ALL CONDUCTORS, REGARDLESS OF SIZE SHALL BE 75°C RATED, THHN OR XHHW. ALL WIRING SHALL BE IN METAL CONDUIT WITH N.E.C. SIZED BONDING CONDUCTORS UNLESS NOTED OTHERWISE.
3.	CONTRACTOR SHALL COORDINATE ALL DEVICE FINISHES PRIOR TO PURCHASING ANY EQUIPMENT. CONFIRM THE EXACT CEILING TYPE PRIOR TO ORDERING ANY FIXTURES.
4.	FURNISH AND INSTALL ALL ELECTRICAL WIRING, RACEWAYS, OUTLET AND JUNCTION BOXES, MOTOR STARTERS, DISCONNECT AND CONTROLS FOR EQUIPMENT FURNISHED UNDER OTHER SECTIONS, UNLESS NOTED OTHERWISE. VERIFY EQUIPMENT REQUIREMENTS PRIOR TO BID.
5.	ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION. THE PRODUCT OF SUBSTANTIALLY ESTABLISHED AND RECOGNIZED MANUFACTURERS.
6.	AS A MINIMUM REQUIREMENT ALL WORK SHALL COMPLY WITH THE LATEST ACTIVE OR ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE, STATE OR LOCAL ELECTRICAL CODES, AND THE REQUIREMENTS OF THE POWER COMPANY. WHERE CONFLICTS OCCUR THE MORE STRINGENT OR THE CODE ENFORCED BY THE AUTHORITY HAVING JURISDICTION SHALL APPLY.
7.	CONTRACTOR SHALL COORDINATE AND MAKE FINAL CONNECTIONS FOR MECHANICAL EQUIPMENT. SIZE ALL FUSES/CIRCUIT BREAKERS PROTECTING MECHANICAL EQUIPMENT PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS.
8.	ALL WIRING DEVICES SHALL BE U.L. APPROVED, OF THE TYPE AND NUMBER SHOWN ON THE DRAWINGS. ALL NEW RECEPTACLES : SWITCHES SHALL BE 20 AMP, SPECIFICATION GRADE. DEVICES RATED AT 120V OR 277V AS NECESSARY. UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL PROVIDE DEVICE : DEVICE PLATE TYPES AND COLORS AS SPECIFIED IN SPECIFICATION. PROVIDE ADHESIVE TAPE LABEL ON ALL DEVICE COVERPLATES INDICATING PANELBOARD AND CIRCUIT NUMBER.
9.	PLAN AND INSTALL ALL ELECTRICAL WORK IN SUCH A MANNER AS TO PREVENT OBSTRUCTIONS, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. CONSULT GENERAL CONTRACT DRAWINGS FOR CONDITIONS AFFECTING THIS WORK AND VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. NOTIFY ENGINEER IMMEDIATELY OF POSSIBLE CONFLICTS, WHERE INTERFERENCES WITH STRUCTURAL, MECHANICAL OR OTHER FEATURES EXIST, OR WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS AND ARRANGEMENT OF INDICATED EQUIPMENT, CONDUIT, OUTLETS OR WIRING. CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT EXTRA COST TO OWNER.
10.	IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE THE DRAWINGS AND EXISTING PREMISES PRIOR TO BIDDING. NO SUBSEQUENT ALLOWANCES WILL BE MADE FOR NOT BEING KNOWLEDGEABLE OF EXISTING CONDITIONS.
11.	NEW CONDUIT OR EXISTING CONDUIT WHICH MUST BE MODIFIED, WITHIN THE SCOPE OF THIS PROJECT SHALL NOT BE ATTACHED TO NOR SUPPORTED BY ANY WIRE OR CABLE WHICH IS USED TO SUSPEND THE CEILING GRID. NEW CONDUIT SUPPORTS OR SUPPORT WIRES AND APPROVED SUPPORTING DEVICES SHALL BE PROVIDED AS NECESSARY.
12.	CONTRACTOR SHALL NOT INTERRUPT OR REMOVE ANY EXISTING CIRCUITS OR EQUIPMENT UNLESS NOTED OTHERWISE ON PLANS. ANY DAMAGED OR DISRUPTED CIRCUITS OR EQUIPMENT SHALL BE RESTORED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER.
13.	CONTRACTOR SHALL FIELD VERIFY SOURCE OF ALL EXISTING AND NEW LIGHTING AND POWER CIRCUITS, BY PANEL AND BREAKER NUMBERS FOR AREAS WITHIN SCOPE OF THIS PROJECT. PRIOR TO CONSTRUCTION CLOSE OUT PROVIDE A NEATLY TYPED PERMANENTLY ATTACHED PANEL INDEX, TO IDENTIFY EACH CIRCUIT, USE, AND AREA SERVED, (I.E.: #1 RECEIPT, RM. 100).
14.	CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH THE OTHER TRADES.

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ELECTRICAL LEGEND			
ABBREVIATIONS			
AC	ABOVE COUNTER	NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR.	NL	NIGHT LIGHT.
CB	CIRCUIT BREAKER.	PH	PHOTOELECTRIC SWITCH
EP	EXPLOSION PROOF.	PP	POWER PANEL
GFI	GROUND FAULT CIRCUIT INTERRUPTER.	RP	RECEPTACLE PANEL.
GND	GROUND.	UG	UNDERGROUND.
HP	HORSEPOWER.	UNO	UNLESS OTHERWISE NOTED.
LP	LIGHTING PANEL.	WP	WEATHER PROOF.
MCC	MOTOR CONTROL CENTER.		
MH	MOUNTING HEIGHT, MANHOLE.		
NEC	NATIONAL ELECTRICAL CODE.		
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.		
WIRING			
	#10		WIRING CONCEALED IN CEILING OR WALLS: SLASH MARKS INDICATE NUMBER OF CONDUCTORS EXCLUDING GROUNDS: CONDUCTOR SIZE AS MARKED: #12 AWG UON.
			UNDERGROUND CABLE OR DUCT: TYPE, SIZE, CONDUCTORS, AND ARRANGEMENT BY NOTATION OR SCHEDULE.
			WIRING RUN EXPOSED.
SWITCHES			
			SWITCH OUTLET: MOUNTED 42" TO CENTERLINE AFF UON: SINGLE POLE UON: LOWER CASE LETTER, WHEN PRESENT, INDICATES FIXTURES CONTROLLED.
			ABBREVIATIONS FOR SWITCH OUTLETS P - PILOT SWITCH 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH TS - TIMER SWITCH LV1, LV2, LV3 - LOW VOLTAGE SWITCH OS - WATTSTOPPER PW-101 OR EQUIVALENT OCCUPANCY SWITCH M - MOTOR STARTER SWITCH
			WATTSTOPPER DT-355 OR EQUIVALENT CEILING OCCUPANCY SENSOR
			EMERGENCY NURSE CALL PULL STATION
RECEPTACLES			
			GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R): MOUNTED 20" AFF UON: NUMBER INDICATES CIRCUIT.
			GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R): MOUNTED 6" ABOVE COUNTERTOP TO CENTERLINE.
			SPLIT WIRED GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R): MOUNTED 18" AFF UON.
			GFI RECEPTACLE
			GROUNDING SINGLE RECEPTACLE (NEMA 5-20): MOUNTED 18" AFF UON.
			GROUNDING QUADRUPLX RECEPTACLE (NEMA 5-20R): MOUNTED 18" AFF UON.
			ISOLATED GROUND RECEPTACLE MOUNTED 20" AFF UON.
			SPECIAL PURPOSE RECEPTACLE: LETTER INDICATES TYPE: TYPE DEFINED BY NOTATION OR SCHEDULE: MOUNTED 18" AFF UON.
			FLOOR BOX: SEE ARCHITECTURAL PLANS FOR LOCATION. FLOOR BOX WITH DATA: HUBBELL SYSTEM ONE S1PFB SERIES. S1CF6 COVER AND S1SPDU2M FACEPLATE. COORDINATE REQUIREMENTS FOR DATA AND ANY CONNECTION ACCESSORIES WITH THE OWNERS REP. ROUTE A 1-1/2" CONDUIT FROM THE FLOOR BOX IN THE WALL TO THE TV AND TERMINATE IN A 4:4 BOX WITH A PULL STRING.

ELECTRICAL LEGEND	
PANELS AND MISC.	
	LIGHT OR POWER PANEL
	JUNCTION BOX
	PHONE AND DATA OUTLET - WALL MOUNTED 20" AFF. PROVIDE 4X4 OUTLET BOX IN WALL WITH SINGLE GANG MUD RING. ROUTE ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL WIRE. WIRING BY OTHERS.
	PHONE AND DATA OUTLET - WALL MOUNTED ABOVE COUNTER. PROVIDE 4X4 OUTLET BOX IN WALL WITH SINGLE GANG MUD RING. ROUTE ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL WIRE. WIRING BY OTHERS.
	ANY CABLE OUTLET. WHERE TV IS SHOWN NEXT TO DUPLEX OUTLET MOUNT DEVICES PER PLAN
	OUTLET SHALL BE CLOCK TYPE RECEPTACLE.
	SPECIAL RECEPTACLE. COORDINATE CONFIGURATION WITH EQUIPMENT VENDOR
	DISCONNECT SWITCH
	ELECTRIC METER
	MANUAL TRANSFER SWITCH



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ELECTRICAL ONE-LINE & NOTES

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DATE AUG. 20, 2018

REVISIONS



DaVita
Aurora Dialysis Center Upgrades
at
1411 South Polaris Street, Suite 100
Aurora, Colorado 80012

SHEET NO.

E-1

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

RSN: 1322345
Permit #: 18-1529237 LT

ELECTRICAL WATER TREATMENT EQUIPMENT KEYNOTES	ELECTRICAL WATER TREATMENT EQUIPMENT KEYNOTES	ELECTRICAL WATER TREATMENT EQUIPMENT KEYNOTES
1. PRE-TREATMENT EQUIPMENT. CIRCUIT BREAKER AT THE PANEL/BREAKER BOX FOR CIRCUIT A-2 A 120 VAC, 20 AMP-GFI BREAKER. RECEPTACLES (DUPLEX) ARE HOSPITAL GRADE, 120 VAC, 20 AMP, HEAVY DUTY, GROUNDED, (NOT GFI) MOUNTED 72 INCHES AFF.	5. REMOTE ALARM WIRE (SUPPLIED BY CONTRACTOR) PULLED FROM THIS AREA TO REMOTE ALARM LOCATION ON TREATMENT FLOOR BY ELECTRICAL CONTRACTOR (WIRE PULLED BY CONTRACTOR). WIRE TO BE BELDON P/N 650-UE OR EQUIVALENT. A 12 CONDUCTOR, 22 GAUGE, STRANDED WIRE. WIRE INSULATION TO MEET LOCAL CODE REQUIREMENTS. IF CONDUIT IS REQUIRED EACH END OF THE CONDUIT TO BE TERMINATED WITH A 2 INCH X 4 INCH BOX WITH 15 FOOT WHIP FOR FUTURE TERMINATION. TERMINATION LOCATION IN PATIENT TREATMENT FLOOR AREA TO BE DETERMINED BY OTHERS.	9. NOT USED.
2. POST TREATMENT SKID. CIRCUIT BREAKER AT THE PANEL/BREAKER BOX FOR CIRCUIT A-4 IS A 120 VAC, 20 AMP-GFI BREAKER. RECEPTACLES (FOURPLEX) ARE HOSPITAL GRADE, 120 VAC, 20 AMP, HEAVY DUTY, GROUNDED, (NOT GFI) MOUNTED 78 INCHES AFF.	6. NOT USED.	10. NOT USED.
3. RO DISCONNECT SWITCH. A 60 AMP DISCONNECT SWITCH INSTALLED WITH A STANDARD GROUNDED 5 WIRE CIRCUIT (L1, L2, L3, N, GND) RATED AT 208 VAC, EQUIPPED WITH 40 AMP SLOW BLOW FUSING, 8 AWG WIRE, THREE PHASE. THE SWITCH IS TO BE MOUNTED AT 72 INCHES AFF TO CENTER OF ENCLOSURE.	7. NOT USED.	11. BOOSTER PUMP ELECTRICAL RECEPTACLE. HUBBELL 2320 RECEPTACLE OR NEMA L6-20R EQUIVALENT ON A DEDICATED CIRCUIT, 208/230V, 1PH, 60HZ, 1.5HP, MOUNTED AT 72" AFF.
4. NOT USED.	8. NOT USED.	12. JUNCTION BOX FROM THE RO DISCONNECT SWITCH. WIRES FROM RO DISCONNECT SWITCH TO JUNCTION BOX PULLED BY ELECTRICAL CONTRACTOR. THE JUNCTION BOX IS TO BE MOUNTED AT 78 INCHES AFF TO CENTER OF ENCLOSURE.

COORDINATION NOTES
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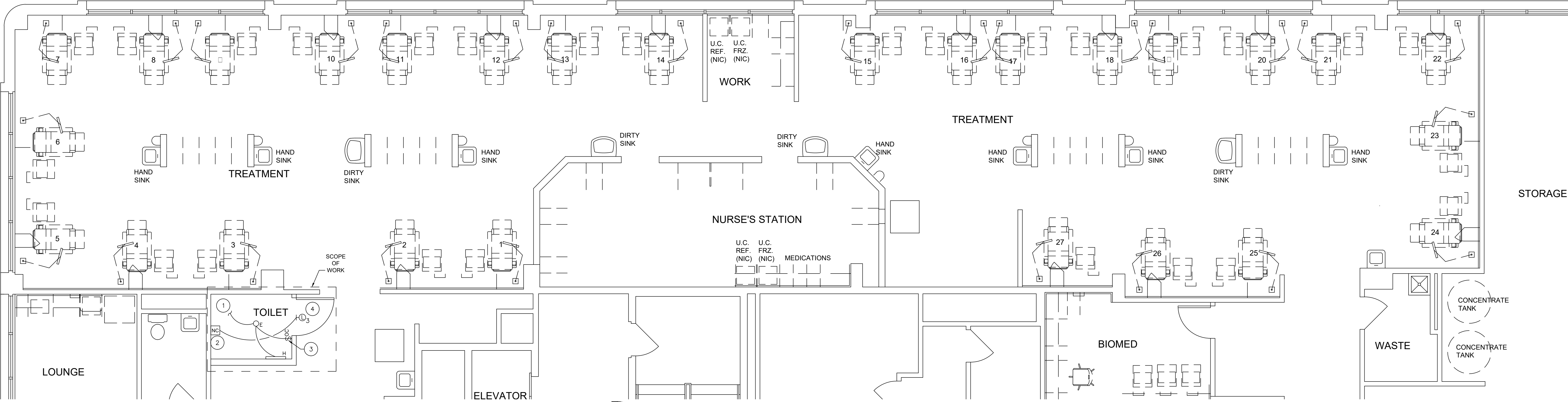
LIGHTING PLAN KEYNOTES #
1. CONTRACTOR TO USE EXISTING LIGHTING CIRCUIT TO PROVIDE POWER TO NEW RESTROOM LIGHTING. PROVIDE NEW CONTROLS AS PER LIGHTING PLAN.
2. COORDINATE EMERGENCY PULL CORD LOCATION WITH ARCHITECT BEFORE INSTALLATION. REFER TO NURSE CALL DIAGRAM FOR ADDITIONAL WIRING INFORMATION.
3. PROVIDE A TWO POLE OCCUPANCY SWITCH TO FACILITATE CONTROL OF EF.
4. THE ROOM NURSE CALL EMERGENCY LIGHT FIXTURE "L" SHALL BE MOUNTED ABOVE THE DOOR HEADER OR IN CEILING AS SHOWN ON PLAN.

POWER PLAN KEYNOTES #
1. CONTRACTOR TO USE EXISTING CIRCUIT TO PROVIDE POWER TO NEW RESTROOM RECEPTACLE. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED.
2. RESTROOM EXHAUST FAN TO BE INTERLOCKED WITH RESTROOM LIGHTING CIRCUIT FOR POWER AND CONTROLS. REFER TO MECHANICAL PLANS FOR MORE INFORMATION. COORDINATE WITH OWNER FOR ANY FURTHER CLARIFICATION AND CONTROLS REQUIREMENTS.
3. WIRING IN PATIENT CARE AREAS (TREATMENTS, AND BIOMED ROOMS) ARE TO COMPLY WITH LATEST LOCAL ADOPTED N.E.C. 517.13(A) - (B).
4. HOSPITAL GRADE RECEPTACLE(S) TO BE WIRED DOWNSTREAM OF GFI WHITE RECEPTACLE. E.C. TO ENSURE DOWNSTREAM RECEPTACLE(S) ARE GFCI PROTECTED BY THE UPSTREAM GFI WHITE DEVICE.
5. CONTRACTOR SHALL CONFIRM TO THE REDUNDANT GROUNDING REQUIREMENTS IN GENERAL PATIENT CARE AREAS PER NEC 517.13.
6. OUTLET FOR DIALYSIS MACHINE TO BE PERMANENTLY ENGRAVED WITH PANEL AND CIRCUIT INFORMATION. COORDINATE WITH OWNER FOR MORE INFORMATION.

Install electrical connections per 2017 NEC 110.14, identify disconnects per 2017 NEC 110.22 and provide working space around electrical equipment per 2017 NEC 110.26.

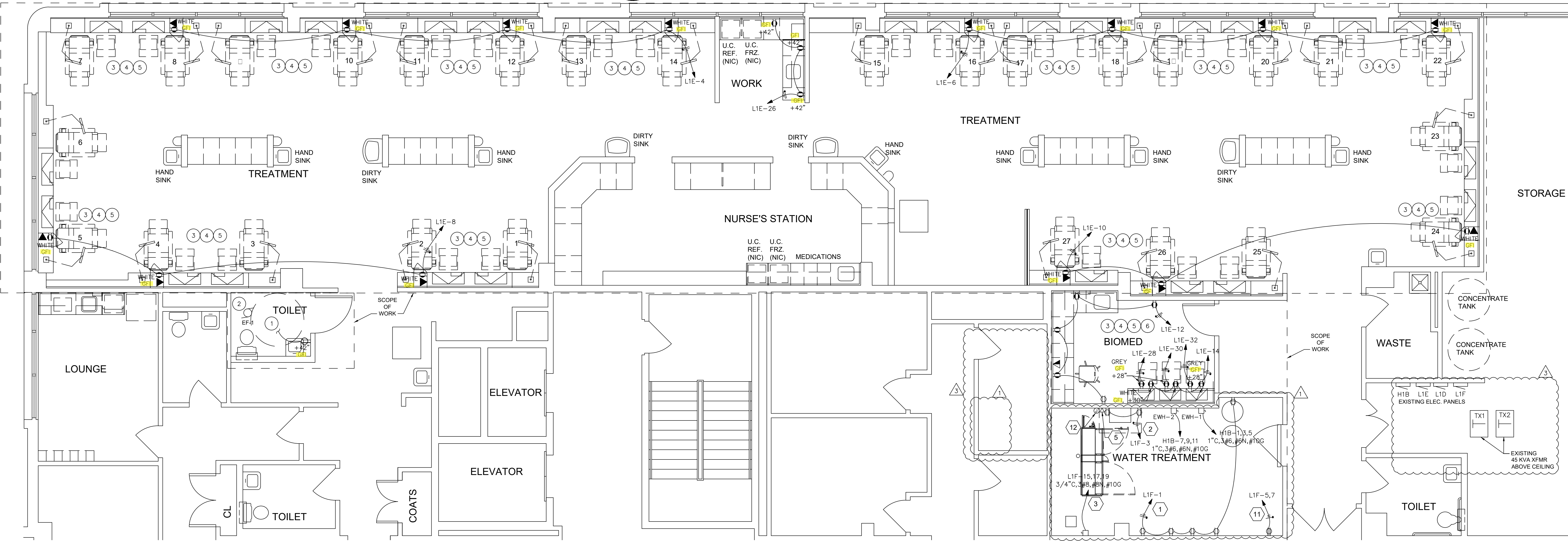
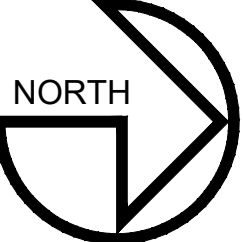
Wiring in air handling spaces must comply with 2017 NEC 300.22. Firestop penetrations per 2017 NEC 300.21. Secure and support equipment per 2017 NEC 300.11.

Locate the required overcurrent protection per 2017 NEC 240.21



LIGHTING PLAN

0 1 2 4 8 SCALE: 3/16" = 1'-0"



H1B

ROOM		VOLTS 480Y/277V 3P 4W						AIC=14,000							
MOUNTING SURFACE		BUS AMPS=400						MAIN BKR MLO							
FED FROM UTILITY		NEUTRAL 100						LUGS STANDARD							
NOTE															
CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD		
1	50/3	ELEC. WATER HEATER -1			4			2	20/1	space			0		
3						4		4	20/1	space			0	0	
5							4	6	20/1	space					0
7	50/3	ELEC. WATER HEATER -2			4			8	60/3	e-listing - 45 3a XFMR			14.7		
11						4		10						14.7	
13	20/1	e-listing lig. 3ling			0.5			12							14.7
15	20/1	e-listing lig. 3ling				0.8		14	20/1	SPACE			0		
17	20/1	e-listing lig. 3ling					0.65	16	20/1	e-listing nig. 3 lig. 3ling			0	0.5	
19		SPACE						18	20/1	e-listing lig. 3ling					0.7
21	20/1	SPACE			0		0	20	60/3	e-listing - 45 3a XFMR			10.4		
23	20/1	SPACE						22						10.4	10.4
25	20/1	SPACE					0	24							
27	20/1	SPACE			0			26	20/1	SPACE			0		
29	20/1	SPACE				0		28	20/1	SPACE			0	0	
31	20/1	SPACE					0	30	20/1	SPACE					0
33	20/1	SPACE			0		0	32	20/1	SPACE			0		
35	20/1	SPACE						34	20/1	SPACE			0	0	
37	20/1	SPACE						36	20/1	SPACE					0
39	20/1	SPACE			0		0	38	20/1	SPACE			0		
41	20/1	SPACE						40	20/1	SPACE				0	
43	20/1	SPACE			0		0	42	20/1	SPACE			0		0

L1F

ROOM		VOLTS 208Y/120V 3P 4W						AIC=10,000							
MOUNTING SURFACE		BUS AMPS=200						MAIN BKR MLO							
FED FROM TX2		NEUTRAL 100						LUGS STANDARD							
NOTE															
CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD		
A	B	C	A	B	C	A	B	C							
1	20/1	PRE-TRMT RECEPS (6)			0			2	20/1	e-listing 3.1.1			0.18		
3	20/1	POST-TRMT RECEPS (6)			0.36			4	20/1	e-listing 3.1.1				0.1	
5	20/2	BOOSTER PUMP (6)					1.04	6	20/1	e-listing 3.1.1					0.2
7								8	20/1	e-listing 3.1.1			0.05		
9	20/1	e-listing 3.1.1			1.04		0.18	10	20/1	e-listing 3.1.1				0.48	
11	20/1	e-listing 3.1.1						12	20/1	e-listing 3.1.1					0.5
13	20/1	e-listing 3.1.1			0.2		0.2	14	20/1	e-listing 3.1.1			0.72		
15	40/3	RO MACHINE					3.33	16	20/1	e-listing 3.1.1				0.18	
17								18	20/1	e-listing 3.1.1					0.72
19								20	20/1	e-listing 3.1.1			0.1		
21	20/1	e-listing spare			3.33		0	22	20/1	e-listing 3.1.1				0.36	
23	20/1	e-listing 3.1.1						24	20/1	e-listing 3.1.1					0.8
25	20/1	e-listing 3.1.1			0.4		0.4	26	20/1	SPACE			0		
27	20/1	e-listing 3.1.1						28	20/1	SPACE				0	
29	20/1	e-listing 3.1.1			0.5		0.5	30	20/1	SPACE			0		0
31	20/1	SPACE			0			32	20/1	SPACE					0
33	20/1	SPACE					0	34	20/1	SPACE			0	0	
35	20/1	SPACE						36	20/1	SPACE					0
37	20/1	SPACE			0		0	38	20/1	SPACE			0		
39	20/1	SPACE						40	20/1	SPACE					0
41	20/1	SPACE			0		0	42	20/1	SPACE					
										TOTAL CONNECTED KVA BY PHASE			6.2	5.4	7.6
		CONN. KVA			CALC. KVA					CONN. KVA			CALC. KVA		
LIGHTING		0			0 (125)			CONTINUOUS		0			0 (125)		
LARGEST MOTOR		0			0 (125)			HEATING		0			0 (100)		
OTHER MOTORS		0			0 (100)			NONCONTINUOUS		0			0 (100)		
RECEPTACLES		11.3			14.7 (50-110)			KITCHEN EQUIP		0.8			0.8 (100)		
								NONCOIN/DIVERSE		0			0 (N/A)		
								TOTAL KVA		20.1			15.5		
BALANCED THREE PHASE AMPS 42															

L1D

ROOM		VOLTS 208Y/120V 3P 4W						AIC=10,000								
MOUNTING SURFACE		BUS AMPS=200						MAIN BKR=150								
FED FROM UTILITY		NEUTRAL 100						LUGS STANDARD								
NOTE EXISTING PANEL WITH NO ADDITIONAL WORK																
CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD			
A	B	C	A	B	C	A	B	C								
1	20/1	e-listing toilet re:ap			0.36				2	20/1	e-listing e-list an			0.25		
3	20/1	e-listing sensor re:aps				0.3			4	20/1	e-listing cor:area re:aps				0.72	
5	20/1	SPACE						0	6	20/1	e-listing cor:area re:aps					0.72
7	20/1	e-listing sensor re:ap							8	20/1	e-listing reuse re:aps			0.72		
9	20/1	e-listing nurse re:aps			0.3		0.54		10	20/1	e-listing reuse re:aps				0.72	
11	20/1	e-listing nurse re:aps						0.54	12	20/1	e-listing ed re:aps					0.54
13	20/1	e-listing nurse re:aps			0.54		0.54		14	20/1	e-listing ed re:aps			0.54		
15	20/1	e-listing re:aps							16	20/1	e-listing nurse re:aps				0	0.72
17	20/1	e-listing nurse re:aps					0.72		18	20/1	e-listing cor:area re:aps					
19	20/1	e-listing copier			0.5				20	20/1	e-listing cor:area re:aps			0		
21	20/1	e-listing re:aps					0.54		22	20/1	e-listing cor:area re:aps				0.72	
23	20/1	e-listing on:re:aps			0.72			0	24	20/1	e-listing nurse re:aps					0
25	20/1	e-listing on:re:aps							26	20/1	e-listing tr:re:aps			1		
27	20/1	e-listing on:re:aps			0.72		0.72		28	20/1	e-listing tr:re:aps				1	
29	20/1	SPACE						0	30	20/1	SPACE					0
31	20/1	e-listing tele:ision re:ap			0.4				32	20/1	SPACE			0	0	
33	20/1	e-listing calling re:re:ap					0.72		34	20/1	SPACE					
35	20/1	e-listing lounge re:aps						0.72	36	20/1	e-listing nurse re:aps			0.3		0
37	20/1	e-listing lounge re:aps			0.54				38	20/1	e-listing au:at sensors					
39	20/1	e-listing lounge re:ap					0		40	20/1	e-listing cor:re:aps				0.72	
41	20/1	e-listing lounge disposal					0.5		42	20/1	e-listing cor:re:aps					0.8

TOTAL CONNECTED KVA BY PHASE						A	B	C
						7.07	10.4	7.38

CONN. KVA		CALC. KVA	
LIGHTING	0	0	(125)
LARGEST MOTOR	0.5	0.625	(125)
OTHER MOTORS	0.25	0.25	(100)
RECEPTACLES	23.3	16.7	(50-110)

EXISTING ELECTRICAL PANELS TO REMAIN.
NO NEW LOAD ADDED TO THIS PANELBOARD.

CONN. KVA		CALC. KVA	
CONTINUOUS	0	0	(125)
HEATING	0	0	(100)
NONCONTINUOUS	0	0	(100)
KITCHEN EQUIP	0	0	(N/A)
NONCOIN/DIVERSE	0	0	(N/A)
TOTAL KVA	24.1	17.5	

BALANCED THREE PHASE AMPS 48.7

L1E

ROOM		VOLTS 208Y/120V 3P 4W										AIC=10,000	
MOUNTING FLUSH		BUS AMPS=200										MAIN BKR=150	
FED FROM UTILITY		NEUTRAL 100										LUGS STANDARD	
NOTE: EXISTING PANEL													
CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD				
			A	B	C				A	B	C		
1	20/1	e-listing tr: re:eps	1			2	20/1	e-listing tr: re:eps	1				
3	20/1	e-listing tr: re:eps		1		4	20/1	TRMT DIGI BOXES		0.72			
5	20/1	e-listing tr: re:eps			1	6	20/1	TRMT DIGI BOXES			0.72		
7	20/1	e-listing tr: re:eps	1			8	20/1	TRMT DIGI BOXES	0.54				
9	20/1	e-listing tr: re:eps				10	20/1	TRMT DIGI BOXES		0.54			
11	20/1	e-listing tr: re:eps			1	12	20/1	BIOMED RECEPS			0		
13	20/1	e-listing tr: re:eps			1	14	20/1	EOP. RECEPTACLE	0.5				
15	20/1	e-listing tr: re:eps	1			16	20/1	e-listing tr: re:eps		1			
17	20/1	e-listing tr: re:eps			1	18	20/1	e-listing ceiling fans			0.5		
19	20/1	e-listing pwr door	0.8			20	20/1	e-listing tr: re:eps	1				
21	20/1	e-listing tr: re:eps		0.72		22	20/1	e-listing tr: re:eps		1			
23	20/1	e-listing tr: re:eps			1	24	20/1	e-listing tr: re:eps			1		
25	20/1	e-listing tr: re:eps	1			26	20/1	WORK AREA RECEPTACLE	0.54				
27	20/1	e-listing tr: re:eps				28	20/1	DIALYSIS MAC. RECEPTACLE		0.5			
29	20/1	e-listing tr: re:eps			1	30	20/1	DIALYSIS MAC. RECEPTACLE			0.5		
31	20/1	space	0			32	20/1	DIALYSIS MAC. RECEPTACLE	0.5				
33	20/1	e-listing tr: re:eps				34	20/1	SPACE		0			
35	20/1	e-listing tr: re:eps			1	36	20/1	e-listing tr: re:eps			1		
37	20/1	e-listing tr: re:eps				38	20/1	SPACE	0				
39	20/1	e-listing tr: re:eps		1.08		40	20/1	SPACE	0	0			
41	20/1	space				42	20/1	SPACE			0		
TOTAL CONNECTED KVA BY PHASE									88	10.6	10.6		
		CONN. KVA	CALC. KVA					CONN. KVA	CALC. KVA				
LIGHTING		0	0 (125)			CONTINUOUS		0	0 (125)				
LARGEST MOTOR		0	0 (125)			HEATING		0	0 (100)				
OTHER MOTORS		0	0 (100)			NONCONTINUOUS		0	0 (100)				
RECEPTACLES		31.1	20.5 (50±10)			KITCHEN EQUIP		0	0 (N/A)				
						NONCOM/DIVERSE		0	0 (N/A)				
						TOTAL KVA		31.1	20.5				
BALANCED THREE PHASE AMPS 57													

Insert Row			Delete Row			FAULT CURRENT CALCULATIONS												
Insert "Start over" Row			COMMON			FEEDER						TRANSFORMER				RESULTS		
FED FROM	FAULT POINT	I (SCA) START	V (L-L or P)	PHASE (1 or 3)	FEEDER (F) or XFMR(T)	WIRE (CU)		WIRE (AL)		DUCT (M = MAG) (N = NON)	LENGTH (FT)	V (S)	KVA	IMP% (AUTO)	IMP% OVER-RIDE	I(SCA) FINAL	WIRE TYPE	
UTIL	SWBD	33,400	480	3	F	500	4			N	200					27,251	CU	
SWBD	H1B	27,251	480	3	F	350	1			M	200					13,638	CU	
H1B	T1p	13,638	480	3	F	4	1			M	10					12,077	CU	
T1p	T1s	12,077	480	3	T							208	75	2.00		7,578		
T1s	L1D	7,578	208	3	F	1/0	1			M	10					7,078	CU	
L1D	L1F	7,078	208	3	F	1/0	1			M	10					6,640	CU	
H1B	T2p	13,638	480	3	F	4	1			M	10			2.00		12,077	CU	
T2p	T2s	12,077	480	3	T							208	112.5	2.00		10,007		
T2s	L1E	10,007	208	3	F	1/0	1			M	15					8,778	CU	
TRANSFORMER EXAMPLE (DO NOT USE FOR PROJECT CALCULATIONS):																		
MDP	TAp	45,000	480	3	F	1	1	3/0	1	M	50					23,439	AL	
TAp	TAs	23,439	480	3	T							208	45	2.00		5,599		
TAs	LA	5,599	208	3	F	3/0	1			M	10					5,403	CU	
BLANK ROWS FOR INSERT FUNCTION (DO NOT USE FOR PROJECT CALCULATIONS):																		

Brandon Pinkerton, PE

