

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read
Application And
Notes, If Any,
Attached

BUILDING INSPECTION

PERMIT

Permit Number: 071364

This is to certify that 164 REALTY INC / HE Calhoun Const Co

has permission to renovations to existing dialysis center

AT 1600 CONGRESS ST

220 B010001

DEC - 7 2007

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permit is procured before this building or part thereof is started or closed-in. 24 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. Craig Carr

Health Dept. _____

Appeal Board _____

Other _____

Department Name

[Signature] 11/13/07
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 07-1364		Date Applied For: 11/02/2007	CBL: 220 B010001
Location of Construction: 1600 CONGRESS ST	Owner Name: 164 REALTY INC	Owner Address: 100 SILVER ST	Phone:
Business Name: Fresenius Medical Care	Contractor Name: HE Callahan Construction Co.	Contractor Address: 664 Turner Rd Auburn	Phone (207) 784-6927
Lessee/Buyer's Name	Phone: 781-699-6114	Permit Type: Alterations - Commercial	
Proposed Use: Commercial Medical Office - renovations to existing dialysis center		Proposed Project Description: renovations to existing dialysis center	
Dept: Zoning Status: Approved with Conditions Reviewer: Marge Schmuckal Approval Date: 11/05/2007 Note: Ok to Issue: <input checked="" type="checkbox"/> 1) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.			
Dept: Building Status: Approved with Conditions Reviewer: Mike Nugent Approval Date: 12/07/2007 Note: Ok to Issue: <input checked="" type="checkbox"/>			
Dept: Fire Status: Approved with Conditions Reviewer: Capt Greg Cass Approval Date: 11/06/2007 Note: Ok to Issue: <input checked="" type="checkbox"/> 1) A single source supplier should be used for all through penetrations. 2) Installation of a Fire Alarm system requires a Knox Box to be installed per city crdinance 3) Application requires State Fire Marshal approval. 4) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.			

City of Portland, Maine - Building or Use Permit Application

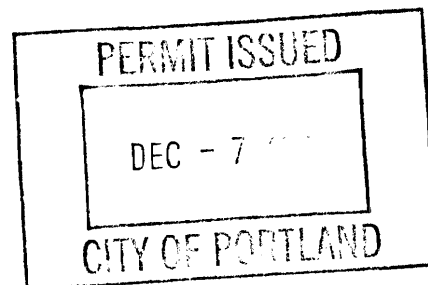
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Issue Date:	CBL:
07-1364		220 B010001

Location of Construction: 1600 CONGRESS ST	Owner Name: 164 REALTY INC	Owner Address: 100 SILVER ST	Phone:
Business Name: Fresenius Medical Care	Contractor Name: HE Callahan Construction Co.	Contractor Address: 664 Turner Rd Auburn	Phone: 2077846927
Lessee/Buyer's Name	Phone: 781-699-6114	Permit Type: Alterations - Commercial	Zone: R-P

Past Use: Commercial Medical Office	Proposed Use: Commercial Medical Office - renovations to existing dialysis center	Permit Fee: \$3,810.00	Cost of Work: \$378,032.00	CEO District: 3
Proposed Project Description: renovations to existing dialysis center		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>SEE Conditions</i>	INSPECTION: Use Group: <i>B</i> Type: <i>20</i> <i>4/13/07</i>	
		Signature: <i>Greg G...</i> Signature: <i>[Signature]</i>		
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
		Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
		Signature: _____ Date: _____		

Permit Taken By: Idobson	Date Applied For: 11/02/2007	Zoning Approval		
<ol style="list-style-type: none">This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.Building permits do not include plumbing, septic or electrical work.Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..		Special Zone or Reviews	Zoning Appeal	Historic Preservation
		<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>11/5/07</i>	<input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>

**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

04/09/09 closed

MD



General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 1600 Congress Street Portland, ME 04101		
Total Square Footage of Proposed Structure/Area 9,300		Square Footage of Lot N/A
Tax Assessor's Chart, Block & Lot Chart# 220 Block# B Lot# 10	Applicant * must be owner, Lessee or Buyer* Name Fresenius Medical Care Address 920 Winter Street City, State & Zip Waltham, MA 02451	Telephone: 781-699-6114
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$ 378,032 C of O Fee: \$ Total Fee: \$ 3,800.32
Current legal use (i.e. single family) <u>Medical Facility - Dialysis Center</u> If vacant, what was the previous use? <u>N/A</u> Proposed Specific use: <u>Medical Facility - Dialysis Center</u> Is property part of a subdivision? <u>No</u> If yes, please name <u>N/A</u> Project description: Renovations to existing dialysis center.		
Contractor's name: <u>H.E. Callahan Construction Co.</u> Address: <u>2664 Turner Road</u> City, State & Zip <u>Auburn, ME 04210</u> Telephone: <u>784-6927</u> Who should we contact when the permit is ready: <u>Jeff Ohler</u> Telephone: <u>784-6927</u> Mailing address: <u>P.O. Box 677 Auburn, ME 04210</u>		

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature: Jeff Ohler

Date: 10/31/07

This is not a permit; you may not commence ANY work until the permit is issue



CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM: Guy Labrecque - CWS Architects

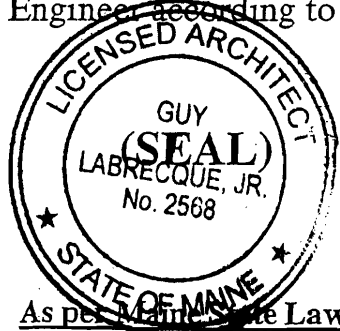
RE: Certificate of Design

DATE: 9-25-07

These plans and / or specifications covering construction work on:

Renovations to Southern Maine Dialysis

Have been designed and drawn up by the undersigned, a Maine registered Architect /
Engineer according to the 2003 International Building Code and local amendments.



As per Maine State Law:

\$50,000.00 or more in new construction, repair
expansion, addition, or modification for
Building or Structures, shall be prepared by a
registered design Professional.

Signature: [Signature]

Title: Vice-President

Firm: CWS Architects

Address: 434 Cumberland Ave
Portland, ME 04101



CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

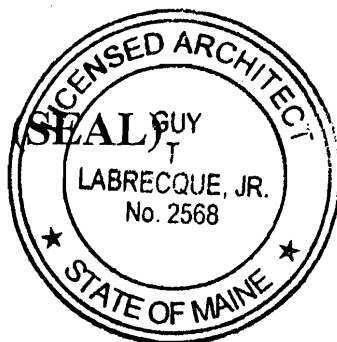
ACCESSIBILITY CERTIFICATE

Designer: Guy Labrecque - CWS Architects

Address of Project: 1600 Congress St.

Nature of Project: Renovations to Southern Maine Dialysis

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.



Signature: [Signature]

Title: Vice - President

Firm: CWS Architects

Address: 434 Cumberland Ave.
Portland, ME 04101

Phone: 207-774-4441

FROM DESIGNER: GUY T. LABRELLA, JR. CWS ARCHITECTS

DATE: 9/25/07

Job Name: THE RENOVATIONS TO SOUTHERN MAINE DIAPHS

Address of Construction: 1600 CONGRESS STREET

2003 International Building Code

REF. AD.1 FOR

Construction project was designed according to the building code criteria listed below:

COMPLETE
CODE
COMPLIANCE
STUDY

Building Code and Year IBC 2003 Use Group Classification(s) BUILDING

Type of Construction 2(b)

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC YES

Is the Structure mixed use? NO if yes, separated or non separated (see Section 302.3)

Supervisory alarm system? YES Geotechnical/Soils report required? (See Section 1802.2) NO

NO
STRUCTURAL
WALL ROD

STRUCTURAL DESIGN CALCULATIONS

Submitted for all structural members
(106.1, 106.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS
(1603)

Uniformly distributed floor live loads (1603.1.1, 1607)

Floor Area Use

Loads Shown

Live load reduction
(1603.1.1, 1607.9, 1607.10)

Roof live loads (1603.1.2, 1607.11)

Roof snow loads (1603.1.3, 1608)

Ground snow load, P_g (1608.2)

If $P_g > 10$ psf, flat-roof snow load, P_f
(1608.3)

If $P_g > 10$ psf, snow exposure factor, C_e
(Table 1608.3.1)

If $P_g > 10$ psf, snow load importance
factor, I_s (Table 1604.5)

Roof thermal factor, C_t (Table 1608.3.2)

Sloped roof snowload, P_s (1608.4)

Seismic design category (1616.3)

Basic seismic-force-resisting system
(Table 1617.6.2)

Response modification coefficient, R ,
and deflection amplification factor, C_d
(Table 1617.6.2)

Analysis procedure (1616.6, 1617.5)

Design base shear (1617.4, 1617.5.1)

Wind loads (1603.1.4, 1609)

Design option utilized (1609.1.1, 1609.6)

Basic wind speed (1609.3)

Building category and wind importance
factor, I_w (Table 1604.5, 1609.5)

Wind exposure category (1609.4)

Internal pressure coefficient (ASCE 7)

Component and cladding pressures
(1609.1.1, 1609.6.2.2)

Main force wind pressures (1609.1.1,
1609.6.2.1)

Flood loads (1603.1.6, 1612)

Flood hazard area (1612.3)

Elevation of structure

Other loads

Concentrated loads (1607.4)

Partition loads (1607.5)

Impact loads (1607.8)

Misc. loads (Table 1607.6, 1607.6.1,
1607.7, 1607.12, 1607.13, 1610,
1611, 2404)

Earthquake design data (1603.1.5, 1614 - 1623)

Design option utilized (1614.1)

Seismic use group ("Category")
(Table 1604.5, 1616.2)

Spectral response coefficients, S_{DS} &
 S_{D1} (1615.1)

Site class (1615.1.5)

CODE COMPLIANCE REPORT

THE RENOVATIONS TO SOUTHERN MAINE DIALYSIS
FOR FRESSENIUS MEDICAL CARE
PORTLAND, MAINE - #1190

BOCA AND LIFE SAFETY CODES REVIEW

1.0 CODES REVIEW

DESCRIPTION OF BUILDING'S FUNCTION AND PROGRAM:

THE PROJECT CONSISTS OF INTERIOR RENOVATIONS AND INTERIOR FIT-UP FOR THE SOUTHERN MAINE DIALYSIS AT 1600 CONGRESS STREET IN PORTLAND. THE SCOPE PRIMARILY CONSISTS OF A RENOVATION TO THE CURRENT DIALYSIS ROOM AND A COMPLETE WATER TREATMENT SYSTEM UPGRADE. THESE RENOVATIONS WILL BE PRIMARILY COSMETIC IN NATURE. EXISTING DRYWALL WILL BE REMOVED AND REPAIRED. LIMITED AREAS OF FLOORING WILL BE REMOVED AND REPLACED. MODIFICATIONS TO THE STRUCTURAL SYSTEM WILL NOT BE REQUIRED.

1.0.A OCCUPANT CLASSIFICATION(S):

IBC 2003:
OCCUPANCY CLASSIFICATION: BUSINESS

NFPA 101 - 2003:
CHAPTER 38, "NEW BUSINESS OCCUPANCIES"

1.0.B SPECIFIC OCCUPANCY AREAS / INCIDENTAL USE AREAS RELATIVE TO THE SCOPE OF THIS PROJECT:

IBC TABLE 302.1.1:
NONE APPLICABLE

1.0.C BUILDING HEIGHT AND AREA LIMITATIONS:

THE HEIGHT AND AREA OF THE BUILDING WILL NOT BE MODIFIED AS PART OF THIS PROJECT. THE BUILDING IS FULLY SPRINKLED. THE FRESSENIUS TENANT SPACE WILL NOT BE MODIFIED AS PART OF THIS PROJECT.

1.0.D TYPE OF CONSTRUCTION:

NFPA 220: TYPE II, 000
IBC 2003: TYPE 2(B)

THE BUILDING CONSISTS OF THE FOLLOWING ASSEMBLIES:

STRUCTURAL SYSTEM:

THE BUILDING IS PRIMARILY A STEEL FRAMED BUILDING. STEEL COLUMNS SUPPORT A STEEL BEAM AND BAR JOIST ROOF FRAMING SYSTEM.

EXTERIOR WALLS:

BRICK MASONRY VENEER.

INTERIOR WALLS: (EXISTING)

METAL STUD FRAMING - ASSUMED
BATT AND RIGID INSULATION
5/8" TYPE "X" GYPSUM WALLBOARD THROUGH OUT.

INTERIOR WALLS: (NEW)

COLD FORMED METAL STUDS
5/8" TYPE "X" GYPSUM WALLBOARD THROUGH OUT.

ROOF FRAMING:

STEEL BEAMS AND STEEL BAR JOISTS. EPDM ROOFING MEMBRANE.

1.0.E REQUIRED FIRE RESISTANCE RATINGS OF APPLICABLE STRUCTURE ELEMENTS:

IBC 2003 - TABLE 601

ELEMENT

STRUCTURAL FRAME: 0 HRS
(FIRE SEPARATION DISTANCE IS TO REMAIN UNCHANGED)

BEARING WALLS: 0 HRS

NONBEARING WALLS: 0 HRS

FLOOR CONSTRUCTION: 0 HRS

ROOF CONSTRUCTION: 0 HRS

NFPA 101

EXIT ACCESS CORRIDORS: 38.3.6.1 EXC. 3 WITH A SPRINKLER SYSTEM: 0 HR

1.0.F MEANS OF EGRESS:

IBC 2003 - CHAPTER 10: TABLE 1004.1.2
NFPA 101 - CHAPTER 7: TABLE 7.3.1.2

OCCUPANT LOAD IBC: BUSINESS AREAS: 100 GROSS S.F. / PER OCCUPANT
OCCUPANT LOAD NFPA: BUSINESS OCCUPANCY: 100 S.F. / PER OCCUPANT

TENANT SPACE OCCUPANT LOAD @ 9,886 S.F. = 98 PEOPLE

ACTUAL COUNT WILL BE APPROXIMATELY 35 PEOPLE.

MINIMUM NUMBER OF EXITS:

IBC 2003 - TABLE 1018.1

(2) EXITS ARE REQUIRED AND ARE IN PLACE.

DUE TO THE TRAVEL DISTANCE BEING GREATER THAN 75 FEET, TWO MEANS OF EGRESS WILL BE REQUIRED. 50% (1) MEANS OF EGRESS SHALL BE "ACCESSIBLE". THE ACCESSIBLE MEANS IS IN PLACE.

NFPA 101 - CHAPTER 40

NOT LESS THAN TWO MEANS OF EGRESS SHALL BE PROVIDED.

CAPACITY OF EGRESS COMPONENTS:

ELEMENT MINIMUM ALLOWABLE

EXIT ACCESS CORRIDORS: 44 INCHES CLEAR

DOORS: 32 INCHES CLEAR

THE PROPOSED CORRIDORS WILL BE AROUND 60" IN WIDTH.
THE EXISTING AND PROPOSED DOORS DO AND WILL CONFORM.

EGRESS ARRANGEMENT:

BUSINESS USE: IBC 2003

DEAD-END CORRIDOR (1016.3) 20 FT (50' WITH A SPRINKLER SYSTEM)
EXIT ACCESS TRAVEL DISTANCE (TABLE 1015.1) 200 FT (300' WITH A SPRINKLER SYSTEM)
COMMON PATH OF TRAVEL (1013.3) 75 FT (100' WITH A SPRINKLER SYSTEM)

BUSINESS OCCUPANCY: NFPA 101

DEAD-END CORRIDOR (38.2.5.1) 50 FT WITH SPRINKLER SYSTEM
COMMON PATH OF TRAVEL (38.2.5.3) 100 FT WITH SPRINKLER SYSTEM
TRAVEL DISTANCE TO AN EXIT (38.2.6) 300 FT WITH SPRINKLER SYSTEM

1.0.G EMERGENCY LIGHTING: NFPA 38.2.9

EMERGENCY LIGHTING IS REQUIRED.

1.0.H INTERIOR FINISH SYSTEM:

IBC 2003 - CHAPTER 8, TABLE 803.5
NFPA 101 - SHALL BE PER CHAPTER 10

WALL AND CEILING FINISHES: NFPA CLASS A, B BOCA CLASS B
VERTICAL EXITS CLASS A, B CLASS C
EXIT ACCESS CORRIDORS CLASS A, B OR C CLASS C
ALL OTHER SPACES CLASS A, B OR C CLASS C

FLOOR FINISHES:
VERTICAL EXITS / EXIT CORRIDORS CLASS I OR CLASS II CLASS I OR II

1.0.I DETECTION, ALARM, AND COMMUNICATIONS:

BOCA 1996 - CHAPTER 9
NFPA 101 - CHAPTERS 40 AND 9

A MANUAL FIRE ALARM SYSTEM IS NOT REQUIRED BY NFPA 101: 38.3.4.1 OR BOCA (918.1). THE BUILDING HAS A FIRE ALARM SYSTEM AND THESE RENOVATIONS WILL MODIFY THIS SYSTEM TO INCLUDE THE EXPANSION AREA.

1.0.J EXTINGUISHING REQUIREMENTS:

IBC - CHAPTER 9
NFPA 101 - CHAPTER 40

* AN AUTOMATIC FIRE SUPPRESSION SYSTEM IS NOT REQUIRED BY THE ABOVE CODES.

THE EXISTING SPRINKLER SYSTEM WILL BE MODIFIED TO CONFORM TO THE NEW PLAN CONFIGURATION.

* PORTABLE FIRE EXTINGUISHERS ARE REQUIRED BY NFPA 101:38.3.5.
* PORTABLE FIRE EXTINGUISHERS ARE NOT REQUIRED BY IBC 2003.

FIRE EXTINGUISHERS ARE IN PLACE AND WILL BE NEEDED AS PART OF THIS PROJECT.

2.0 GENERAL BUILDING COMPONENTS

2.0.A STAIR ASSEMBLIES

IBC 2003 - CHAPTER 10

MAXIMUM RISER HEIGHT (1009.3) 7"
MINIMUM RISE HEIGHT (1009.3) 4"
MINIMUM TREAD DEPTH (1009.3) 11"
MINIMUM HEAD ROOM (1009.2) 80" (6'-8")
MAXIMUM VERTICAL RISE TO LANDING (1014.5) 12'-0"
HAND RAIL HEIGHT (1009.11.1) NOT LESS THAN 34" / NOT GREATER THAN 38"
GUARDRAIL HEIGHT (1012.2) NOT LESS THAN 42"
BALUSTER SPACING SHALL RESIST THE PASSAGE OF A 4" SPHERE IN A BUSINESS USE GROUP PER 1012.3.

NFPA 101 - CHAPTER 7

MAXIMUM RISER HEIGHT (7.2.2.2.1(A)) 7"
MINIMUM RISE HEIGHT (7.2.2.2.1(A)) 4"
MINIMUM TREAD DEPTH (7.2.2.2.1(A)) 11"
MINIMUM HEAD ROOM (7.2.2.2.1(A)) 80" (6'-8")
MAXIMUM VERTICAL RISE TO LANDING (7.2.2.2.1(A)) 12'-0"
HAND RAIL HEIGHT (7.2.2.4.5) NOT LESS THAN 34" / NOT GREATER THAN 38"
GUARDRAIL HEIGHT (7.2.2.4.5.2) NOT LESS THAN 42"
BALUSTER SPACING SHALL RESIST THE PASSAGE OF A 4" SPHERE PER 7.2.2.4.5.3

END OF CODE COMPLIANCE REPORT

A

CODE STUDY

REFERENCED FROM:

SCALE: NONE

PARTITION SCHEDULE

PARTITION TYPE	PARTITION SCHEDULE		PARTITION TYPE
	GENERAL WALL DESCRIPTION	GENERAL PICTORIAL	
◇	EXISTING WALL FRAMING, REPAIR AND REPLACE AS REQUIRED. TAGGED SIDE: (1) LAYER 5/8" TYPE "X" GWB FROM FINISH FLOOR TO 48" A.F.F. ALIGN GWB SURFACES WITH EXISTING GWB SURFACES		4A
◇A	EXISTING WALL FRAMING, REPAIR AND REPLACE AS REQUIRED. TAGGED SIDE: (1) LAYER 5/8" TYPE "X" GWB FROM FINISH FLOOR TO 48" A.F.F. OPPOSITE SIDE: (1) LAYER 5/8" DENS ARMOR PLUS FIREGUARD WALLBOARD FROM FINISH FLOOR TO 48" A.F.F. ALIGN GWB SURFACES WITH EXISTING GWB SURFACES		4B
◇2	EXISTING WALL FRAMING, REPAIR AND REPLACE AS REQUIRED. TAGGED SIDE: (1) LAYER 5/8" DENS ARMOR PLUS TO 48" AFF. (1) LAYER 5/8" TYPE "X" GWB FROM 48" ABOVE FINISH FLOOR TO 12" ABOVE CEILING. ALIGN GWB SURFACES WITH EXISTING GWB SURFACES		<p>PARTITION SCHEDULE NOTES</p> <ol style="list-style-type: none">BRACE WALL ASSEMBLIES TO STRUCTURE ABOVE AT ALL DOORS AND ELSEWHERE AS REQUIRED.PROVIDE SOLID BLOCKING AS INDICATED ON DRAWINGS AND AS REQUIRED BY MANUFACTURER'S EQUIPMENT (KITCHEN CASE WORK, TOILET & BATH ACCESSORIES, CLOSET RODS & SHELVING & H.C. GRAB BARS.)REFERENCE DOOR & WINDOW SCHEDULE FOR ADDITIONAL INFORMATION. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.FIRE SAFING & FIRE STOPPING: PROVIDE FIRE SAFING SYSTEM/MATERIAL AT ALL PENETRATIONS THRU FIRE RATED ASSEMBLIES. COORDINATE PROPOSED SYSTEMS & MATERIALS FOR APPROPRIATENESS & COMPATIBILITY W/OTHER BUILDING SYSTEMS, TYPE OF SYSTEM PENETRATED, & APPLICATION. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.FIRE DAMPERS: PROVIDE APPROPRIATELY RATED FIRE DAMPERS AT ALL LOCATIONS WHERE MECHANICAL VENTILATION DUCTS PENETRATE RATED ASSEMBLIES.
◇2A	EXISTING WALL FRAMING, REPAIR AND REPLACE AS REQUIRED. TAGGED SIDE: (1) LAYER 5/8" DENS ARMOR PLUS FROM FINISH FLOOR TO 96" AFF.		
◇2B	EXISTING WALL FRAMING, REPAIR AND REPLACE AS REQUIRED. TAGGED SIDE: (1) LAYER 5/8" TYPE DENS ARMOR PLUS FROM FINISH FLOOR TO 96" A.F.F. OPPOSITE SIDE: (1) LAYER 5/8" DENS ARMOR PLUS FIREGUARD WALLBOARD FROM FINISH FLOOR TO 48" A.F.F. ALIGN GWB SURFACES WITH EXISTING GWB SURFACES		
◇3	EXISTING WALL FRAMING, REPAIR AND REPLACE AS REQUIRED. TAGGED SIDE: (1) LAYER 5/8" DENS ARMOR PLUS FIREGUARD WALLBOARD FROM FINISH FLOOR TO 48" A.F.F. ALIGN GWB SURFACES WITH EXISTING GWB SURFACES		
◇3A	EXISTING WALL FRAMING, REPAIR AND REPLACE AS REQUIRED. TAGGED SIDE: (1) LAYER 5/8" DENS ARMOR PLUS FIREGUARD WALLBOARD FROM FINISH FLOOR TO 48" A.F.F. OPPOSITE SIDE: (1) LAYER 5/8" DENS ARMOR PLUS FIREGUARD WALLBOARD FROM FINISH FLOOR TO 48" A.F.F. ALIGN GWB SURFACES WITH EXISTING GWB SURFACES		
◇3B	NOT USED		
◇4	6" METAL STUD FRAMING @ 16" O.C. TO UNDERSIDE OF DECK. CONTINUOUS 5 1/2" SOUND ATTENUATION BATTS FULL HEIGHT OF WALL. BOTH SIDES: 5/8" TYPE "X" GWB TO UNDERSIDE OF DECK.		

B

PARTITION SCHEDULE

REFERENCED FROM:

SCALE: NONE



434 Cumberland Avenue
Portland, ME 04101
Phone: (207) 774-4441
Fax: (207) 774-4016
www.CWSarch.com

THE RENOVATIONS TO
SOUTHERN MAINE DIALYSIS
PORTLAND, MAINE #1190
1600 CONGRESS STREET
PORTLAND, MAINE 04101

FRESSENIUS
MEDICAL SERVICES
DIALYSIS SERVICES
NORTH AMERICA
1256 MAIN STREET
WALTHAM, MA 02451
(781) 891-0829
(781) 891-0850

Owner:

REVISIONS:

Drawing Title:
**PARTITION
SCHEDULE & CODE
STUDY**
Scale: AS NOTED
Date: 9/04/2007
CWS Proj. No.: 2006-447-16d

Drawing Number:

A0.1

ISSUED FOR CONSTRUCTION

SPECIFIC CEILING REMOVALS NOTES:

- 1 REMOVE CEILING MOUNTED TELEVISIONS AND ASSOCIATED SUPPORT STANDS COMPLETE AND SALVAGE FOR REINSTALLATION. REFERENCE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 2 REMOVE EXISTING CEILING TILE COMPLETE. CEILING GRID TO REMAIN. FIX/REPAIR/REPLACE GRID COMPONENTS THAT ARE DAMAGED PRESENTLY OR BY OTHER SCOPES OF WORK IN THE CONSTRUCTION PROCESS. PREP GRID FOR NEW PAINT APPLICATION.
- 3 REFERENCE MEP DRAWINGS FOR ALL WORK RELATED TO THE REMOVALS OF MECHANICAL & ELECTRICAL SYSTEM COMPONENTS.
- 4 TEMPORARILY REMOVE EXISTING CURTAIN TRACK AND CURTAIN AS REQUIRED FOR NEW TILE INSTALLATION & NEW PAINT APPLICATIONS. REINSTALL AT THE SAME LOCATION.
- 5 LOWER EXISTING CHAIN LINK FLOURESCENT FIXTURES 1'-0".
- 6 REMOVE/RELOCATE EXISTING CHAIN HUNG FLOURESCENT FIXTURES AS REQUIRED FOR NEW WALL CONSTRUCTION.
- 7 REMOVE/RELOCATE EXISTING DIFFUSERS AS REQUIRED FOR NEW WALL CONSTRUCTION.
- 8 REMOVE AND SALVAGE EXISTING 2x4 LIGHTS AS REQUIRED FOR CEILING GRID WORK. REINSTALL AT THE SAME LOCATION.
- 9 REMOVE AND REPLACE EXISTING 2x4 LIGHTS.

A CEILING REMOVALS NOTES

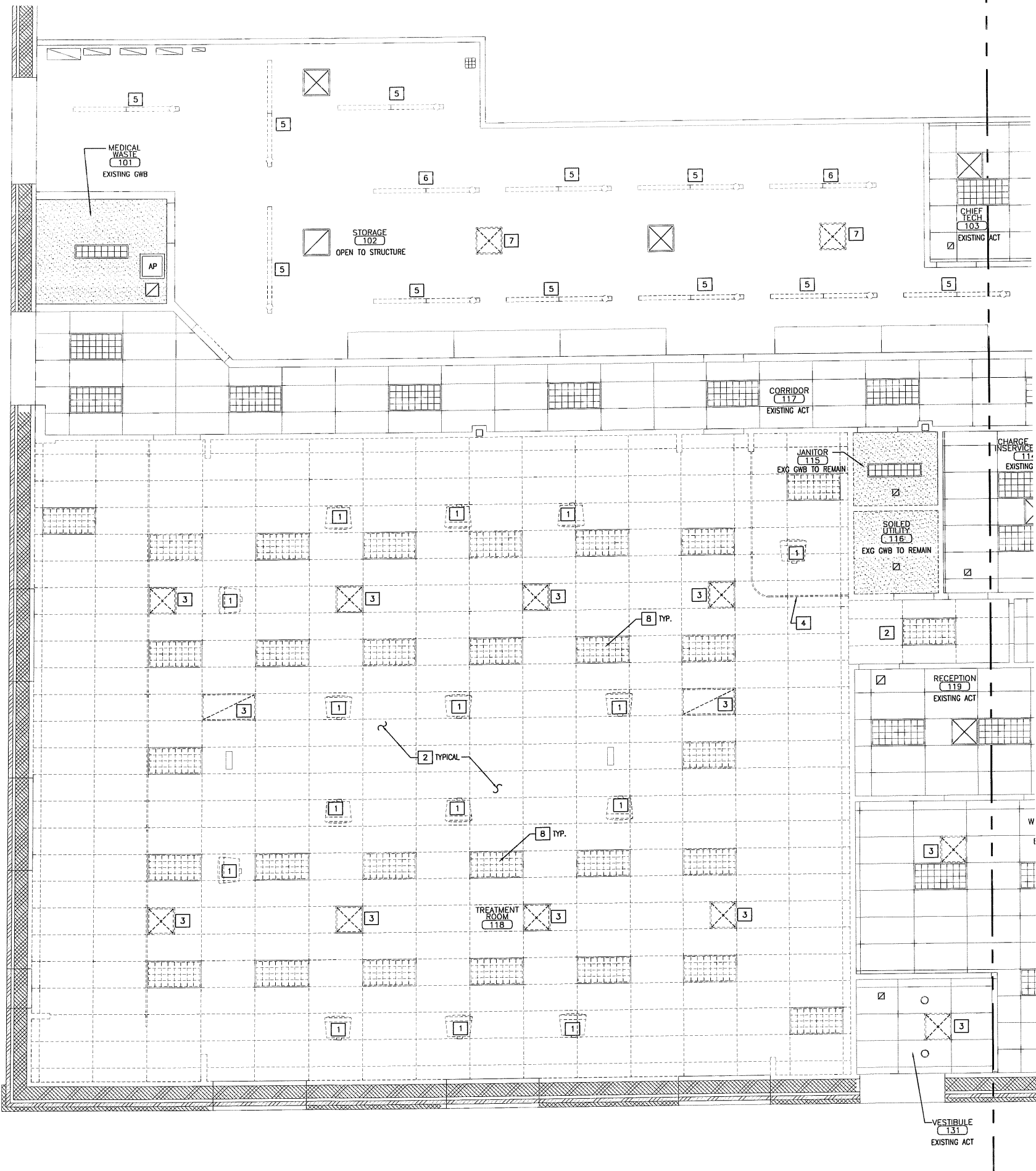
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SCALE: NONE

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REFERENCED FROM:

SCALE: NONE



J REMOVALS REFLECTED CEILING PLAN (EAST SIDE)

REFERENCED FROM:

SCALE: 1/4" = 1'-0"



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THE RENOVATIONS TO
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PORTLAND, MAINE 04100
1600 CONGRESS STREET
PORTLAND, MAINE 04101

Owner: FRESSENIUS
MEDICAL SERVICES
DIALYSIS SERVICES
NORTH AMERICA
1256 MAIN STREET
WALTHAM, MA 02451
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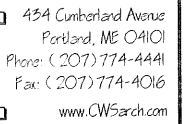
REVISIONS:	Date:	Description:

Drawing Title:
REMOVALS
REFLECTED CEILING
PLAN (EAST SIDE)
Scale: 1/4" = 1'-0"
Date: 9/04/2007
CWS Proj. No.: 2006 447.1a

Drawing Number:
DA2.1



ISSUED FOR CONSTRUCTION



1600 CONGRESS STREET
PORTLAND, MAINE 04101

WALTHAM, MA 02451
(781) 891-0829

REVISIONS:

Scale: 3/16" = 1'-0"
Date: 9/04/2007
CWS Proj. No.: 2006.447.fdt

A1.0



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

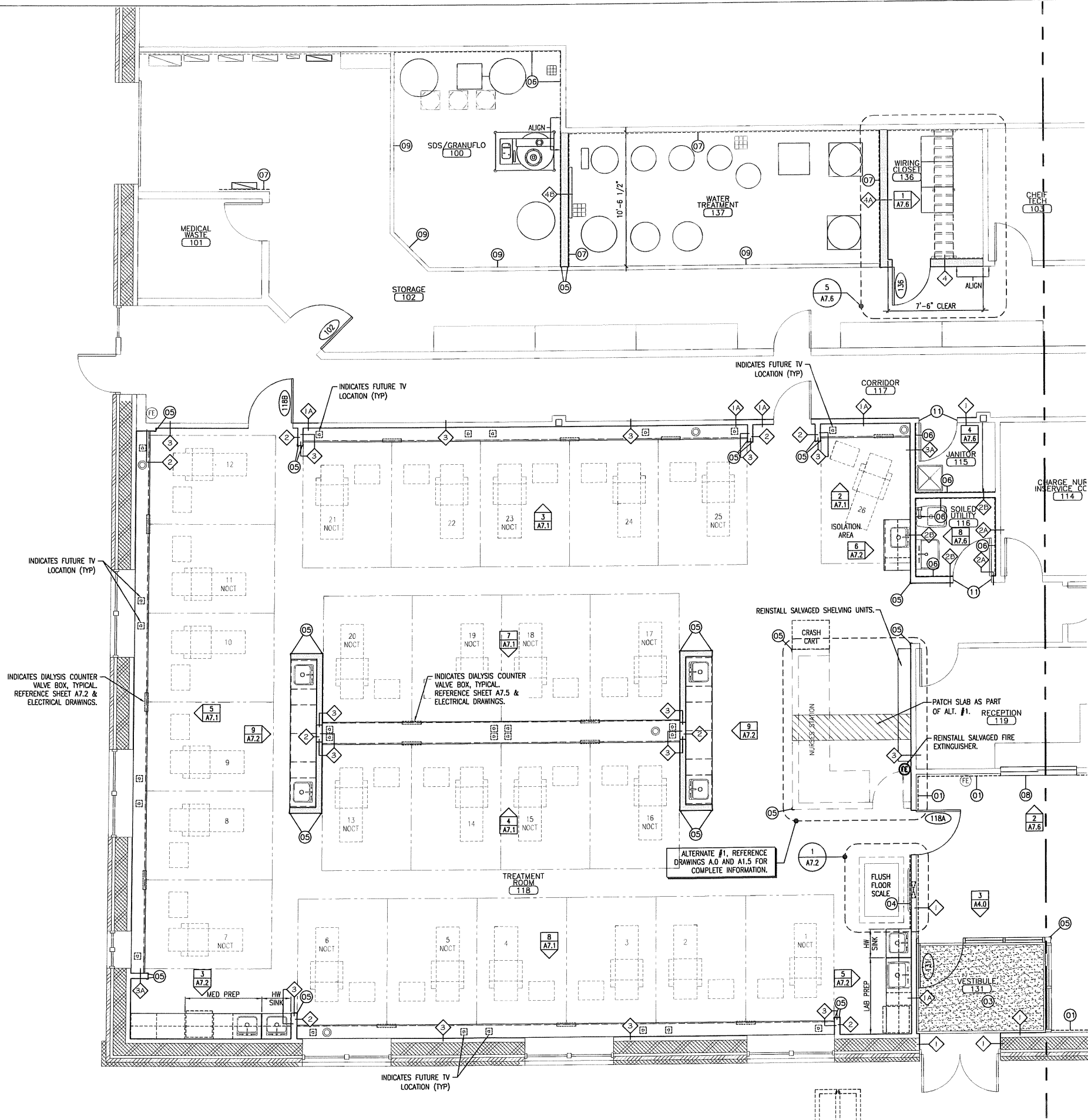
ISSUED FOR CONSTRUCTION

SPECIFIC NEW WORK NOTES:

- 01 DASHED LINE INDICATES EXTENTS OF NEW CHAIR RAIL @ 34" ± A.F.F., WITH VINYL WALL COVERING FINISHES BELOW CHAIR RAIL AND ABOVE CHAIR RAIL. REFERENCE DETAIL 3/A7.5.
- 02 NEW CHAIN-LINK FENCE AND GATE.
- 03 CUSTOM WALK-OFF FLOOR MAT. REFERENCE SPECIFICATIONS & DETAIL 4/A7.5.
- 04 DASHED LINE INDICATES FRP PANEL FROM TOP OF WALL BASE TO 48" A.F.F. SEAL BOTTOM OF FRP PANEL TO WALL BASE WITH CONTINUOUS SEALANT. REFERENCE DETAIL 6/A7.5. PROVIDE CONTINUOUS VINYL CHAIR RAIL.
- 05 PROVIDE CORNER GUARDS AT ALL EXTERNAL WALL PARTITION CORNERS, TYPICAL THROUGHOUT THE TREATMENT ROOM (118), WATER TREATMENT (137), COAT & WHEELCHAIR (121) AND WAITING (130) WHETHER TAGGED OR NOT. CORNER GUARD HEIGHT VARIES. REFERENCE DETAILS 8/A7.5 & 12/A7.5.
- 06 DASHED LINE INDICATES FRP PANEL FROM FINISHED FLOOR TO 96" A.F.F. SEAL BOTTOM OF FRP PANEL TO FLOOR WITH CONTINUOUS SEALANT.
- 07 CONTINUOUS 5/8" PAINT GRADE PLYWOOD TO 8'-0" A.F.F.
- 08 NEW SOLID SURFACE COUNTER TOP, REINSTALL SALVAGED SLIDING WINDOW UNIT.
- 09 WATER THRESHOLD CURB, REFERENCE DETAIL 2/A7.5.
- 10 PAINT FINISH CORRIDOR SIDE OF DOOR FRAME.
- 11 PAINT FINISH ENTIRE DOOR FRAME.
- 12 COAT RACK AND SHELVES, REFERENCE DETAIL 11 & 12 A7.6.
- 13 EXISTING PLYWOOD TO BE PAINTED. UTILIZE PAINT SYSTEM NO. 1.

GENERAL NEW WORK NOTES:

1. CONTRACTOR SHALL PROVIDE SOLID WOOD BLOCKING FOR ALL CABINETRY AND WALL MOUNTED EQUIPMENT AS REQUIRED. REMOVE EXISTING GWB FINISHES AS REQUIRED FOR BLOCKING INSTALLATIONS. PATCH & REPAIR THESE AREA AS REQUIRED.



A FLOOR PLAN (EAST SIDE)

REFERENCED FROM:

SCALE: 1/4" = 1'-0"



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REVISIONS:

Description:	Date:

Drawing Title:
FLOOR PLAN
(EAST SIDE)

Scale: 1/4" = 1'-0"
Date: 9/04/2007
CWS Proj. No.: 2006-44714

Drawing Number:

A1.1

ISSUED FOR CONSTRUCTION

SPECIFIC CEILING REMOVALS NOTES:

- 1
- REMOVE CEILING MOUNTED TELEVISIONS AND ASSOCIATED SUPPORT STANDS COMPLETE AND SALVAGE FOR REINSTALLATION. REFERENCE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION..
- 2
- REMOVE EXISTING CEILING TILE COMPLETE. CEILING GRID TO REMAIN. FIX/REPAIR/REPLACE GRID COMPONENTS THAT ARE DAMAGED PRESENTLY OR BY OTHER SCOPES OF WORK IN THE CONSTRUCTION PROCESS. PREP GRID FOR NEW PAINT APPLICATION.
- 3
- REFERENCE MEP DRAWINGS FOR ALL WORK RELATED TO THE REMOVALS OF MECHANICAL & ELECTRICAL SYSTEM COMPONENTS.
- 4
- TEMPORARILY REMOVE EXISTING CURTAIN TRACK AND CURTAIN AS REQUIRED FOR NEW TILE INSTALLATION & NEW PAINT APPLICATIONS. REINSTALL AT THE SAME LOCATION.
- 5
- LOWER EXISTING CHAIN LINK FLOURESCENT FIXTURES 1'-0".
- 6
- REMOVE/RELOCATE EXISTING CHAIN HUNG FLOURESCENT FIXTURES AS REQUIRED FOR NEW WALL CONSTRUCTION.
- 7
- REMOVE/RELOCATE EXISTING DIFFUSERS AS REQUIRED FOR NEW WALL CONSTRUCTION.
- 8
- REMOVE AND SALVAGE EXISTING 2x4 LIGHTS AS REQUIRED FOR CEILING GRID WORK. REINSTALL AT THE SAME LOCATION.
- 9
- REMOVE AND REPLACE EXISTING 2x4 LIGHTS.

A CEILING REMOVALS NOTES

REFERENCED FROM:

SCALE: NONE

NOT USED

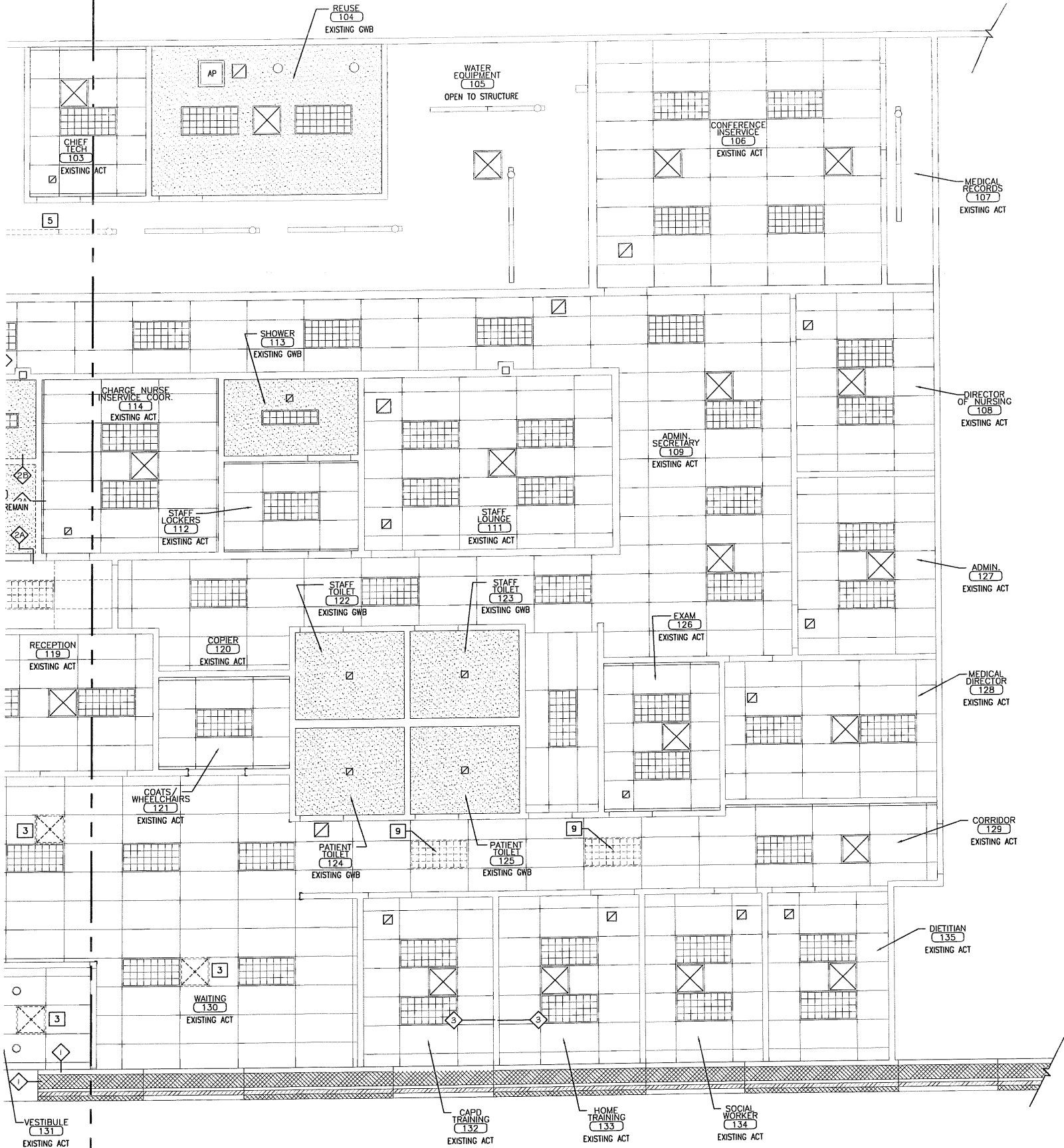
REFERENCED FROM:

SCALE:

J REMOVALS REFLECTED CEILING PLAN (WEST SIDE)

REFERENCED FROM:

SCALE: 1/4" = 1'-0"



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REVISIONS:

Description	Date

Drawing Title: REMOVALS
REFLECTED CEILING
PLAN (WEST SIDE)
Drawing Scale: 1/4" = 1'-0"
Date: 9/04/2007
CWS Proj. No.: 2006.447.fpk

Drawing Number:

DA2.2

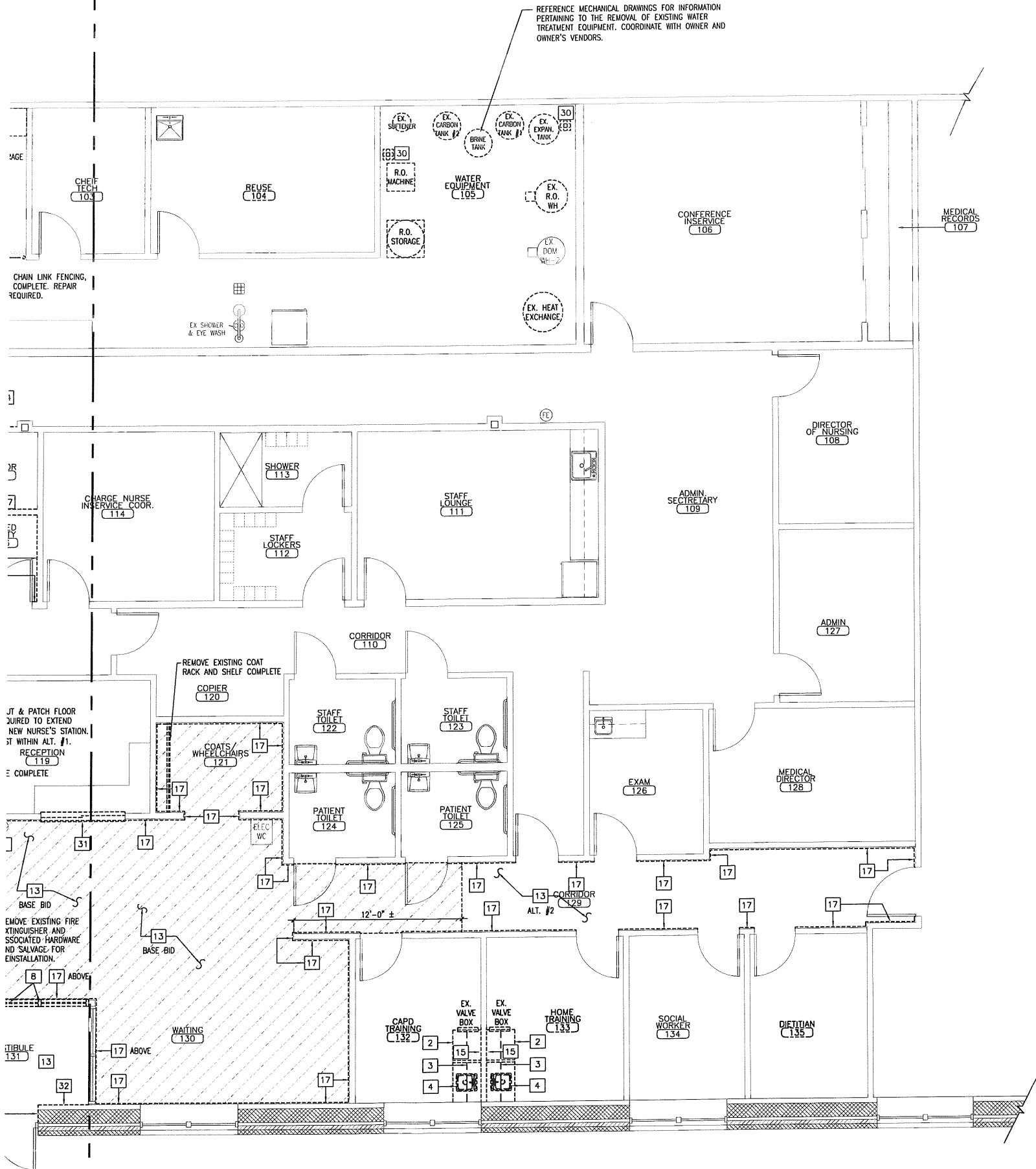
ISSUED FOR CONSTRUCTION

SPECIFIC REMOVALS NOTES:

- 1 REMOVE DOOR AND DOOR FRAME ASSEMBLY COMPLETE.
- 2 REMOVE EXISTING COUNTERTOP AND BASE CABINET ASSEMBLY COMPLETE.
- 3 REMOVE EXISTING WALL CABINETS COMPLETE.
- 4 REMOVE EXISTING SINK AND SINK BASE CABINET COMPLETE. TERMINATE PIPING AS PER MECHANICAL DRAWINGS.
- 5 REMOVE EXISTING REFRIGERATOR AND SALVAGE FOR REINSTALLATION. REFERENCE NEW WORK PLANS FOR NEW LOCATION.
- 6 REMOVE PORTION OF EXISTING WALL ASSEMBLY AS REQUIRED FOR NEW DOOR OPENING. PATCH AND REPAIR EXISTING SURFACES SCHEDULED TO REMAIN.
- 7 HATCH INDICATES A PORTION OF EXISTING CONCRETE SLAB-ON-GRADE TO BE REMOVED AS REQUIRED FOR NEW FLOOR SCALE. REFERENCE FLOOR PLAN AND DETAILS FOR ADDITIONAL INFORMATION.
- 8 REMOVE HOLLOW METAL FRAME WINDOW SYSTEM COMPLETE.
- 9 REMOVE RECESSED FLOOR SCALE ASSEMBLY COMPLETE. REWORK WALL MOUNTED ELECTRICAL READ-OUT BOX & ASSOCIATED WIRING & CONDUIT AS REQUIRED BY NEW SCALE AND READ OUT CONFIGURATION. REFERENCE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 10 REMOVE DIALYSIS VALVE PANELS AND DIALYSIS EQUIPMENT COMPLETE. COORDINATE WITH TENANT.
- 11 REMOVE ELECTRICAL & MECHANICAL EQUIPMENT, WIRING AND PIPING COMPLETE. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS.
- 12 REMOVE DIALYSIS COUNTER AND CASEWORK COMPLETE.
- 13 HATCH REPRESENTS REMOVAL OF ALL EXISTING VCT FLOOR FINISHES AND WALL BASE FINISHES WITHIN INDICATED LIMITS. PREPARE CONCRETE SLAB FOR NEW FLOORING SYSTEM PER FINISH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SANDING AND/OR SAND BLASTING AS RECOMMENDED. REFERENCE ROOM FINISH SCHEDULE FOR FURTHER INFORMATION.
- 14 REMOVE ALL EXISTING FLOOR PAINT FINISHES WITHIN INDICATED SPACE COMPLETE. PREPARE CONCRETE SLAB FOR NEW RESINOUS FLOORING SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE SANDING AND/OR SAND BLASTING AS REQUIRED. REFERENCE ROOM FINISH SCHEDULE FOR FURTHER INFORMATION.
- 15 REMOVE EXISTING GWB FROM FINISH FLOOR TO 48" A.F.F.. REPAIR AND REPLACE EXISTING WALL FRAMING AS REQUIRED FOR NEW GYPSUM WALL BOARD.
- 16 HATCH INDICATES A PORTION OF EXISTING CONCRETE SLAB-ON-GRADE TO BE REMOVED AS REQUIRED FOR NEW FLOOR DRAIN. PATCH AND REPAIR UPON COMPLETING MECHANICAL INSTALLATIONS. REFERENCE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 17 DASHED LINE INDICATES EXTENT OF WALL FINISHES TO BE REMOVED, INCLUDING WALL CARPET, CHAIR RAIL AND VINYL BASE. PATCH, REPAIR AND SKIM COAT GWB AS REQUIRED FOR NEW FINISHES.
- 18 REMOVE LAUNDRY TUB COMPLETE. REFERENCE MECHANICAL DRAWINGS.
- 19 REMOVE WALL MOUNTED HEATING UNIT COMPLETE. REFERENCE MECHANICAL & ELECTRICAL DRAWINGS.
- 20 REMOVE PORTION OF WALL COMPLETE TO THE EXTENTS INDICATED.
- 21 REFERENCE ALTERNATE #1 FOR BREAKOUT PRICING ASSOCIATED WITH REPLACING NURSE'S STATION.
- 22 REMOVE EXISTING FRP AND GWB FROM FINISH FLOOR TO 48" A.F.F. TO EXTENTS INDICATED. REPAIR AND REPLACE EXISTING WALL FRAMING AS REQUIRED FOR GYPSUM WALL BOARD AND FRP.
- 23 REMOVE EXISTING FRP AND GWB FROM FINISH FLOOR TO 96" A.F.F. TO EXTENTS INDICATED. REPAIR AND REPLACE EXISTING WALL FRAMING AS REQUIRED FOR NEW "MRX" GWB AND FRP.
- 24 REMOVE A PORTION EXISTING GWB FROM FINISH FLOOR TO 48" A.F.F. TO EXTENTS INDICATED. REPAIR AND REPLACE EXISTING WALL FRAMING AS REQUIRED FOR NEW GWB AS SCHEDULED.
- 25 REMOVE EXISTING HALF WALL COMPLETE.
- 26 REMOVE EXISTING FRP AND GWB FROM FINISH FLOOR TO 96" A.F.F. TO EXTENTS INDICATED. REPAIR AND REPLACE EXISTING WALL FRAMING AS REQUIRED FOR NEW GYPSUM WALL BOARD AND FRP.
- 27 TEMPORARILY REMOVE FIXTURE AS REQUIRED TO COMPLETE WORK IN ROOM. REINSTALL FIXTURE IN THE SAME LOCATION AFTER WORK IN ROOM IS COMPLETE.
- 28 REMOVE EXISTING GWB FROM FINISH FLOOR TO 12" ABOVE CEILING. REPAIR AND REPLACE EXISTING WALL FRAMING AS REQUIRED FOR NEW GYPSUM WALL BOARD.
- 29 REFERENCE ALTERNATE #3. REMOVE EXISTING VCT FLOORING WITHIN THE ENTIRE TREATMENT ROOM. PREP EXISTING SLAB FOR NEW SV FINISHES. PROVIDE LEVELLING COMPOUND AS REQUIRED THROUGHOUT SPACE.
- 30 REMOVE EXISTING FLOOR DRAINS AND PIPING STUBBED THROUGH SLAB. CAP DRAIN PIPING, PATCH AND INFILL SLAB ON GRADE AS REQUIRED.
- 31 REMOVE EXISTING RECEPTION WINDOW AND COUNTER COMPLETE. SALVAGE WINDOW FOR REINSTALLATION.
- 32 REMOVE EXISTING GWB FROM FINISH FLOOR TO 24" A.F.F.. REPAIR AND REPLACE EXISTING WALL FRAMING AS REQUIRED FOR NEW GYPSUM WALL BOARD.

GENERAL REMOVALS NOTES:

1. COORDINATE ALL REMOVALS WORK WITH ALL TRADES PRIOR TO COMMENCING ANY WORK INCLUDING OWNER SUPPLIED MATERIAL AND EQUIPMENT.
2. CONTRACTOR IS TO COORDINATE SALVAGE OF EXISTING BUILDING COMPONENTS AND EQUIPMENT WITH BUILDING OWNER PRIOR TO COMMENCING ANY WORK.
3. SAFELY STORE ALL ITEMS INDICATED TO BE SALVAGED AND REINSTALLED. REPLACE ANY DAMAGED ITEMS AND/OR COMPONENTS.
4. PATCH AND REPAIR ALL ADJACENT SURFACES INDICATED TO REMAIN WHICH ARE DAMAGED DURING THE REMOVALS PROCESS.
5. PATCH AND REPAIR ALL INTERIOR WALL SURFACES INDICATED TO REMAIN. PREPARE WALL SURFACES FOR NEW FINISHES PER FINISH MANUFACTURER'S RECOMMENDATIONS. REFERENCE PARTITION SCHEDULE AND ROOM FINISH SCHEDULE FOR FURTHER INFORMATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL MISC. EQUIPMENT AND ACCESSORIES WITHIN, AND APPLIED TO, ANY WALL, WALL SURFACE, CEILING, OR CEILING SURFACE SCHEDULED TO BE REMOVED. TYPICAL ALL SPACES. THE CONTRACTOR SHALL VERIFY SCOPE OF WORK IN FIELD PRIOR TO BID. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO ALL TRADES.
7. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, BRACING AND SHORING AS REQUIRED FOR ANY AND ALL REMOVALS. TEMPORARY BRACING, SUPPORT AND SHORING SHALL BE IN PLACE PRIOR TO ANY AND ALL REMOVALS.
8. REFERENCE THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL REMOVALS RELATED TO THE BUILDINGS UTILITIES, CLIMATE CONTROL EQUIPMENT, AND OTHER RELATED ITEMS.
9. THE CONTRACTOR SHALL CUT, PATCH, AND REPAIR EXISTING ROOFING SYSTEM AS REQUIRED FOR ANY AND ALL MECHANICAL PENETRATIONS. REFERENCE MECHANICAL DRAWINGS AND DETAILS FOR FURTHER INFORMATION. PROVIDE COUNTER FLASHING AND WEATHER PROOF MEMBRANE AS REQUIRED.
10. THE CONTRACTOR SHALL CUT, PATCH AND REPAIR CONCRETE FLOOR SLAB AS REQUIRED FOR COMPLETE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL INSTALLATIONS. COORDINATE THE EXTENT OF CONCRETE REMOVALS WITH ALL ALL SCOPES OF WORK. REFERENCE ALL CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION.
11. THE CONTRACTOR SHALL CUT, PATCH, AND REPAIR ANY AND ALL WALL SURFACES AS REQUIRED FOR INSTALLATION OF BLOCKING THAT IS REQUIRED BY THE INSTALLATION OF CABINETS AND WALL CABINETS. PROVIDE BLOCKING FOR ALL CABINETS AND WALL CABINETS TYPICAL. PROVIDE NEW PAINT FINISHES WITHIN THE ENTIRE SPACE.
12. REMOVE AND SALVAGE ALL EXISTING WINDOW BLIND ASSEMBLIES COMPLETE THROUGH OUT THE BUILDING AS REQUIRED TO COMPLETE WORK. REPLACE AND REINSTALL WHEN ALL PHASES OF WORK ARE COMPLETE.
13. REMOVE EXISTING CORNER GUARDS COMPLETE. PREPARE SURFACES FOR NEW FINISHES AS PER MANUFACTURER'S RECOMMENDATIONS. REFERENCE ROOM FINISH SCHEDULE.



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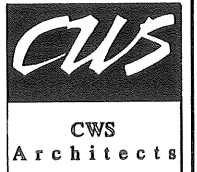
REMOVALS FLOOR PLAN (WEST SIDE)

REFERENCED FROM:

SCALE: 1/4" = 1'-0"



North



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REVISIONS:

Revision	Description	Date

Drawing Title:
REMOVALS FLOOR
PLAN (WEST SIDE)

Scale: 1/4" = 1'-0"
Date: 9/04/2007
CWS Proj. No.: 2006.447.fpt

Drawing Number:
DA1.2

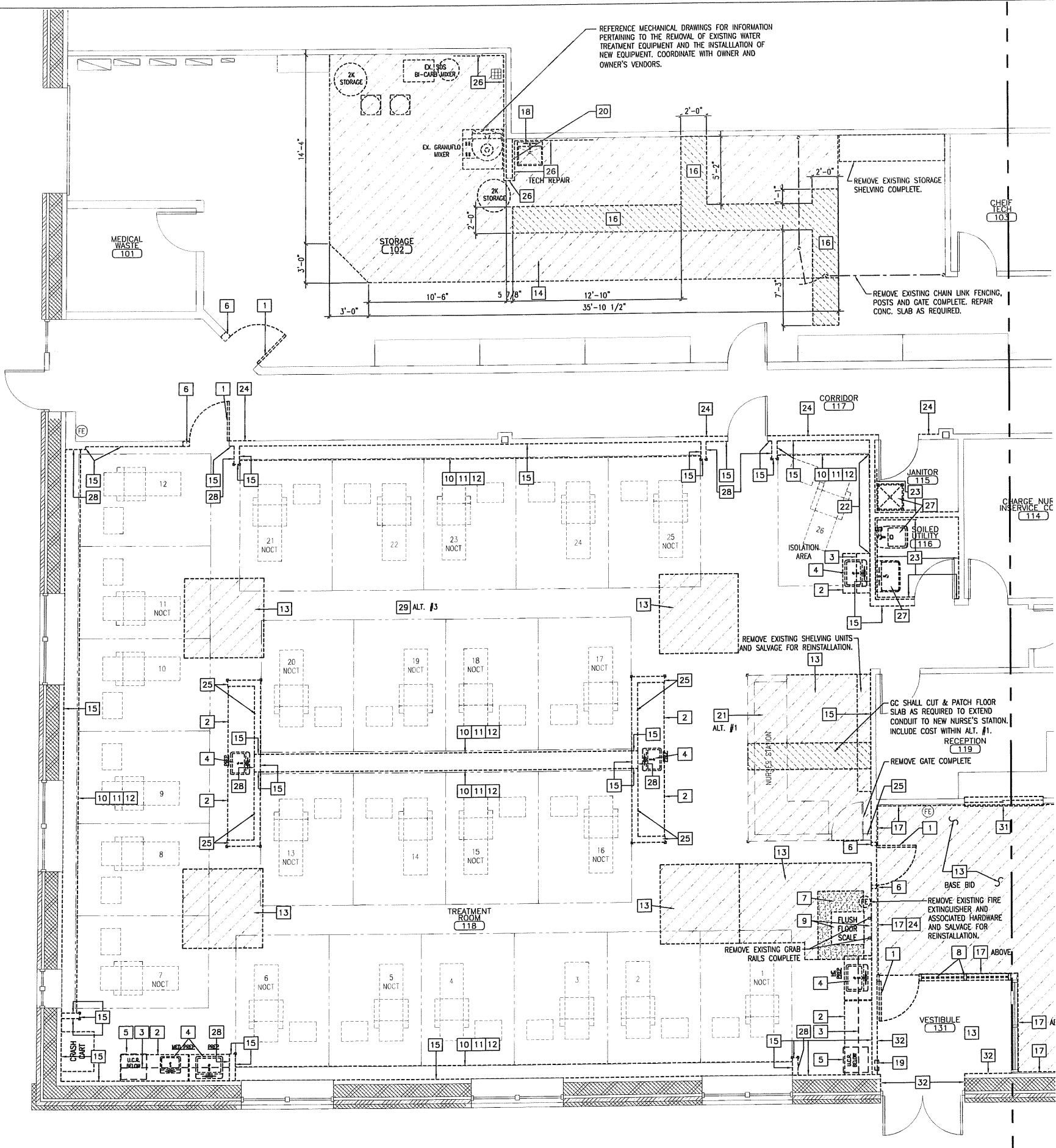
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SPECIFIC REMOVALS NOTES:

- 1 REMOVE DOOR AND DOOR FRAME ASSEMBLY COMPLETE.
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- 6 REMOVE PORTION OF EXISTING WALL ASSEMBLY AS REQUIRED FOR NEW DOOR OPENING. PATCH AND REPAIR EXISTING SURFACES SCHEDULED TO REMAIN.
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- 8 REMOVE HOLLOW METAL FRAME WINDOW SYSTEM COMPLETE.
- 9 REMOVE RECESSED FLOOR SCALE ASSEMBLY COMPLETE. REWORK WALL MOUNTED ELECTRICAL READ-OUT BOX & ASSOCIATED WIRING & CONDUIT AS REQUIRED BY NEW SCALE AND READ OUT CONFIGURATION. REFERENCE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
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- 14 REMOVE ALL EXISTING FLOOR PAINT FINISHES WITHIN INDICATED SPACE COMPLETE. PREPARE CONCRETE SLAB FOR NEW RESINOUS FLOORING SYSTEM PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE SANDING AND/OR SAND BLASTING AS REQUIRED. REFERENCE ROOM FINISH SCHEDULE FOR FURTHER INFORMATION.
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- 28 REMOVE EXISTING GWB FROM FINISH FLOOR TO 12" ABOVE CEILING. REPAIR AND REPLACE EXISTING WALL FRAMING AS REQUIRED FOR NEW GYPSUM WALL BOARD.
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GENERAL REMOVALS NOTES:

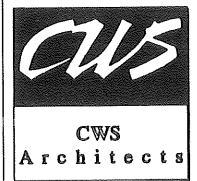
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12. REMOVE AND SALVAGE ALL EXISTING WINDOW BLIND ASSEMBLIES COMPLETE THROUGH OUT THE BUILDING AS REQUIRED TO COMPLETE WORK. REPLACE AND REINSTALL WHEN ALL PHASES OF WORK ARE COMPLETE.
13. REMOVE EXISTING CORNER GUARDS COMPLETE. PREPARE SURFACES FOR NEW FINISHES AS PER MANUFACTURER'S RECOMMENDATIONS. REFERENCE ROOM FINISH SCHEDULE.



REMOVALS FLOOR PLAN (EAST SIDE)

REFERENCED FROM:

SCALE: 1/4" = 1'-0"



434 Cumberland Avenue
Portland, ME 04101
Phone: (207) 774-4441
Fax: (207) 774-4016
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DIALYSIS SERVICES
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1256 MAIN STREET
WALTHAM, MA 02451
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(781) 891-0890

REVISIONS:	
No.	Description

Drawing Title:
REMOVALS FLOOR
PLAN (EAST SIDE)

Scale:
1/4" = 1'-0"

Date:
9/04/2007

CWS Proj. No.: 2006.447.tst

Drawing Number:
DA1.1



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(781) 891-0830

REVISIONS	Date:
Description:	

Drawing Title:
**OVERALL CEILING
REMOVALS PLAN**

Date: 9/04/2007
CWS Proj No: 2006 447 ft

Drawing Number:

DA2.0

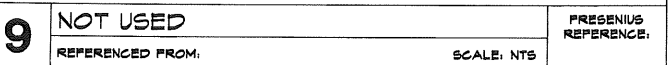
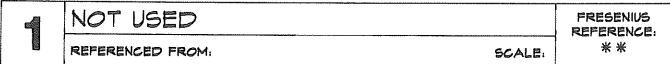


OVERALL CEILING REMOVALS PLAN

REFERENCED FROM:

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

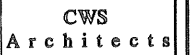
ISSUED FOR CONSTRUCTION



13	SCHEDULE ABBREVIATIONS
	REFERENCED FROM:

11	ROOM FINISH SCHEDULE
	REFERENCED FROM:

ISSUED FOR CONSTRUCTION



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REVISIONS	
Description:	Date:

Drawing Title:	3/16" = 1'-0" / 2006.447
OVERALL REMOVALS PLAN	
Scale:	9/04/2006
Date:	CNS Proj. No: 2006.447

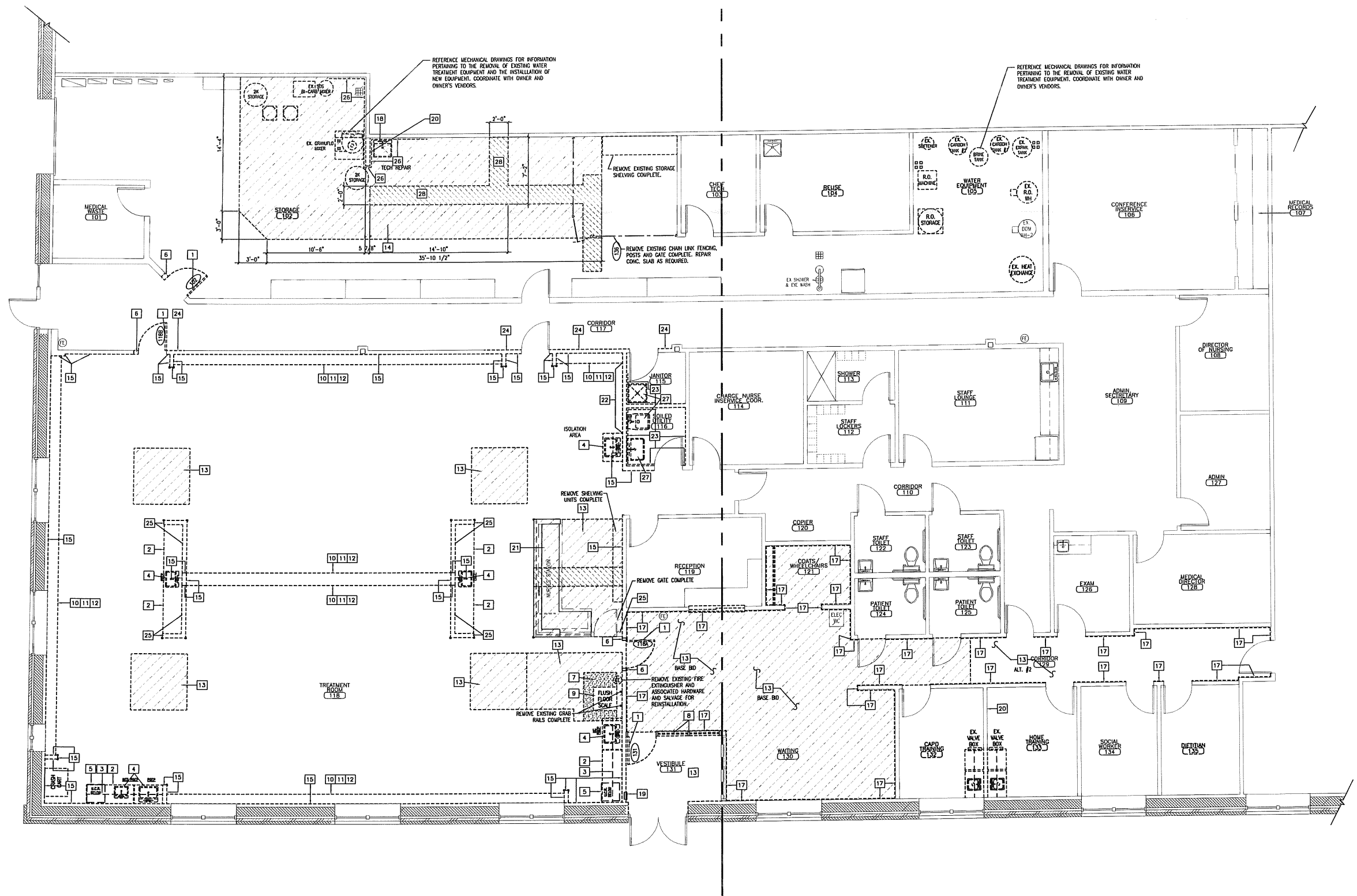
Drawing Number:

DA1.0



North

ISSUED FOR CONSTRUCTION



— REFERENCE MECHANICAL DRAWINGS FOR INFORMATION PERTAINING TO THE REMOVAL OF EXISTING WATER TREATMENT EQUIPMENT AND THE INSTALLATION OF NEW EQUIPMENT. COORDINATE WITH OWNER AND OWNER'S VENDORS.

REFERENCE MECHANICAL DRAWINGS FOR INFORMATION PERTAINING TO THE REMOVAL OF EXISTING WATER TREATMENT EQUIPMENT. COORDINATE WITH OWNER AND OWNER'S VENDORS.

A	OVERALL REMOVALS PLAN
	REFERENCED FROM:

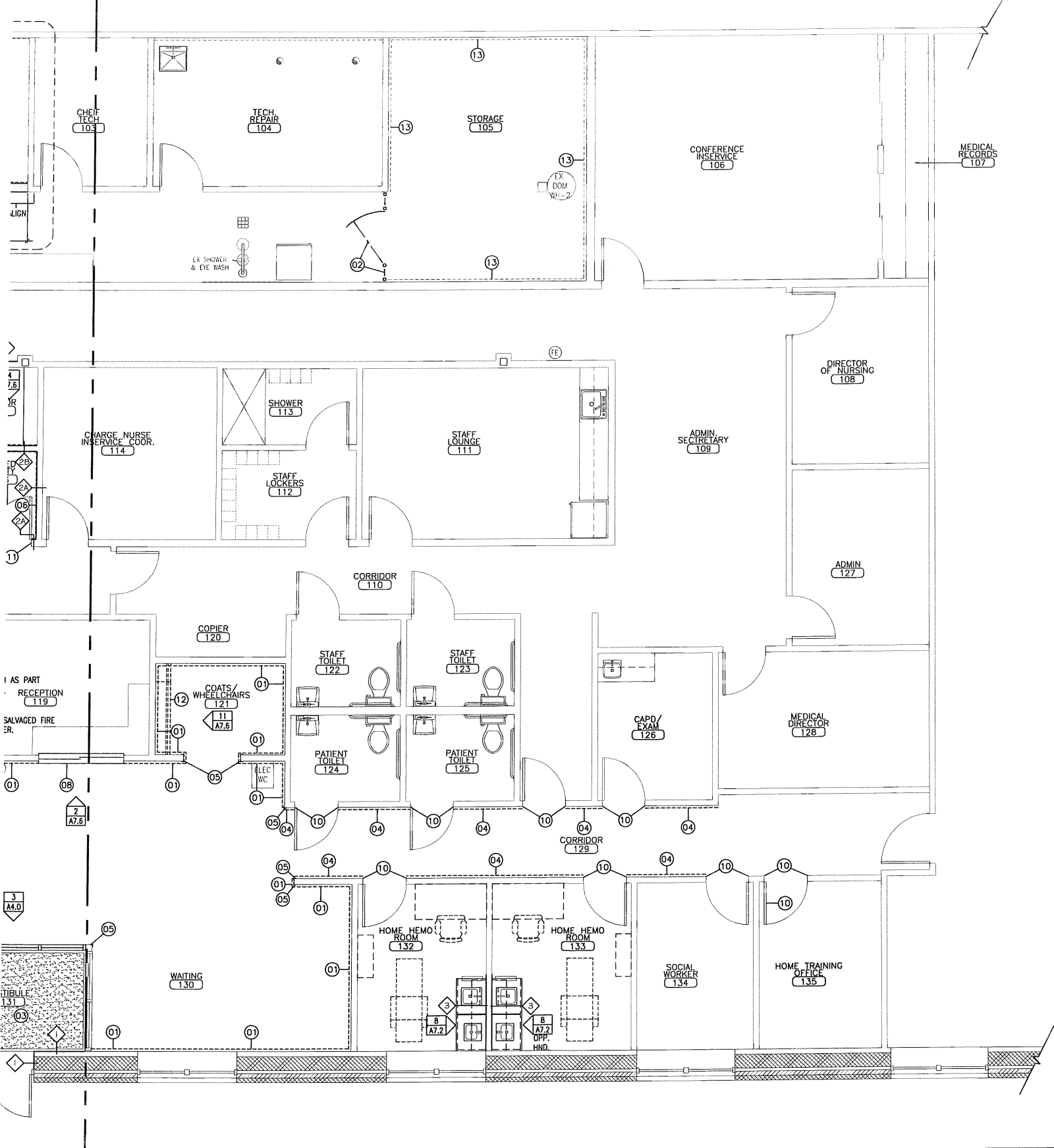
SCALE: 3/16" = 1'-0"

SPECIFIC NEW WORK NOTES:

- 01 DASHED LINE INDICATES EXTENTS OF NEW CHAIR RAIL @ 34"± A.F.F., WITH VINYL WALL COVERING FINISHES BELOW CHAIR RAIL AND ABOVE CHAIR RAIL. REFERENCE DETAIL 3/A7.5.
- 02 NEW CHAIN-LINK FENCE AND GATE.
- 03 CUSTOM WALK-OFF FLOOR MAT. REFERENCE SPECIFICATIONS & DETAIL 4/A7.5.
- 04 DASHED LINE INDICATES FRP PANEL FROM TOP OF WALL BASE TO 48" A.F.F. SEAL BOTTOM OF FRP PANEL TO WALL BASE WITH CONTINUOUS SEALANT. REFERENCE DETAIL 6/A7.5. PROVIDE CONTINUOUS VINYL CHAIR RAIL.
- 05 PROVIDE CORNER GUARDS AT ALL EXTERNAL WALL PARTITION CORNERS, TYPICAL THROUGHOUT THE TREATMENT ROOM (116), WATER TREATMENT (137), COAT & WHEELCHAIR (121) AND WAITING (130) WHETHER TAGGED OR NOT. CORNER GUARD HEIGHT VARIES. REFERENCE DETAILS 8/A7.5 & 12/A7.5
- 06 DASHED LINE INDICATES FRP PANEL FROM FINISHED FLOOR TO 96" A.F.F. SEAL BOTTOM OF FRP PANEL TO FLOOR WITH CONTINUOUS SEALANT.
- 07 CONTINUOUS 5/8" PAINT GRADE PLYWOOD TO 8'-0" A.F.F.
- 08 NEW SOLID SURFACE COUNTER TOP, REINSTALL SALVAGED SLIDING WINDOW UNIT.
- 09 WATER THRESHOLD CURB, REFERENCE DETAIL 2/A7.5.
- 10 PAINT FINISH CORRIDOR SIDE OF DOOR FRAME.
- 11 PAINT FINISH ENTIRE DOOR FRAME.
- 12 COAT RACK AND SHELVES, REFERENCE DETAIL 11 & 12 A7.6.
- 13 EXISTING PLYWOOD TO BE PAINTED. UTILIZE PAINT SYSTEM NO. 1.

GENERAL NEW WORK NOTES:

1. CONTRACTOR SHALL PROVIDE SOLID WOOD BLOCKING FOR ALL CABINETRY AND WALL MOUNTED EQUIPMENT AS REQUIRED. REMOVE EXISTING GWB FINISHES AS REQUIRED FOR BLOCKING INSTALLATIONS. PATCH & REPAIR THESE AREA AS REQUIRED.



A

FLOOR PLAN (WEST SIDE)

REFERENCED FROM:

SCALE: 1/4" = 1'-0"



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DIALYSIS SERVICES
NORTH AMERICA
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(781) 891-0850

REVISIONS:

Description:

Date:

Drawing Title:

FLOOR PLAN
(WEST SIDE)

Scale: 1/4" = 1'-0"

Date: 9/04/2007

CWS Proj. No.: 2006.447.fpt

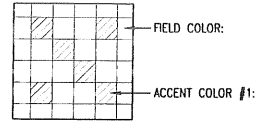
Drawing Number:

A1.2

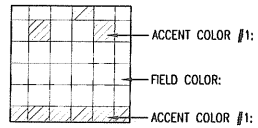
ISSUED FOR CONSTRUCTION

TILE PATTERN LEGEND:

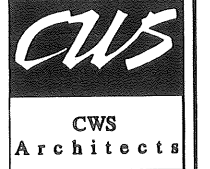
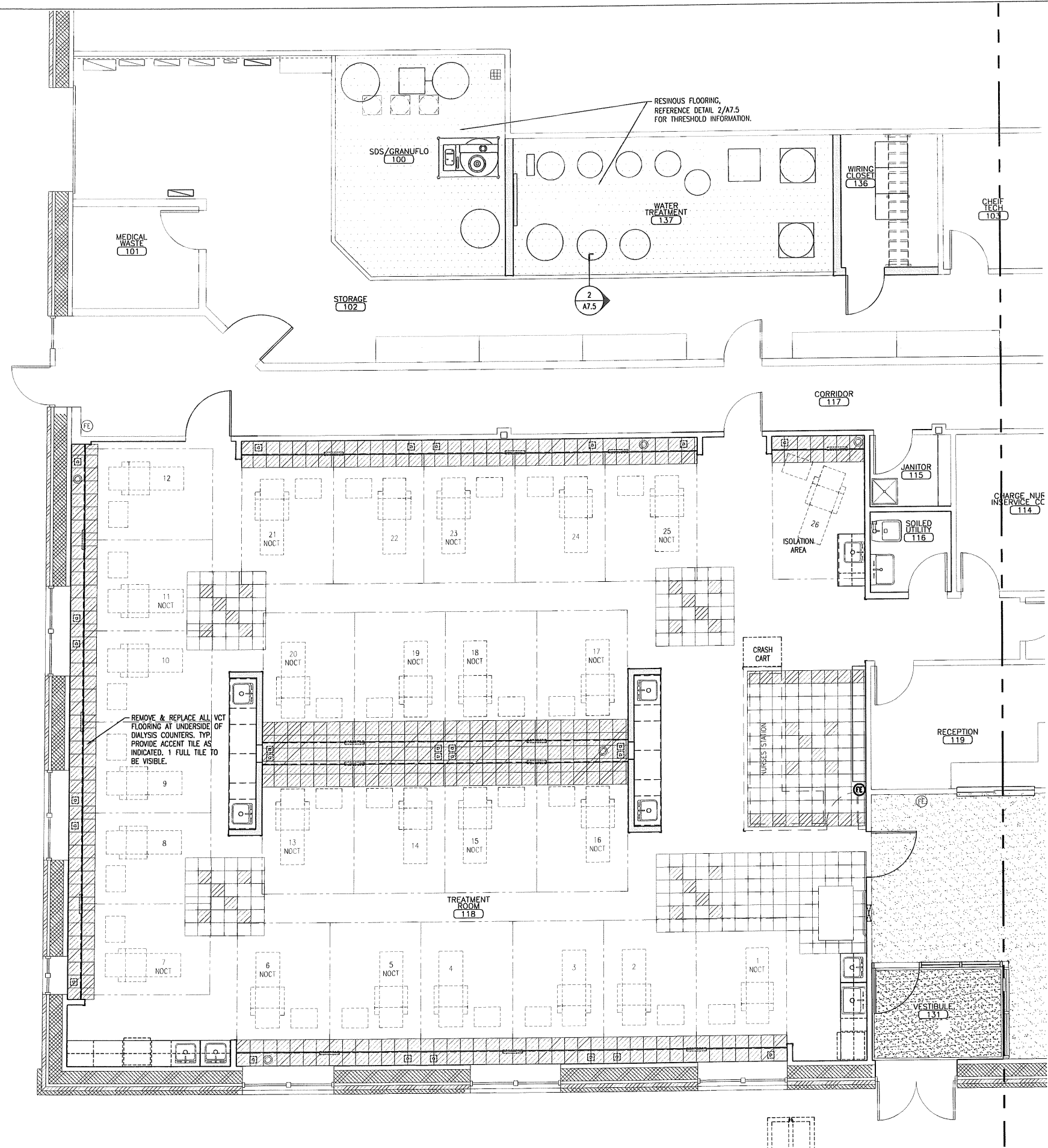
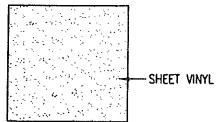
TREATMENT ROOM (118)



NURSE'S STATION



WAITING



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REVISIONS:

Descriptions:

Date:

Drawing Title:

FLOOR PLAN -
TILE PATTERN
(EAST SIDE)

Scale: 1/4" = 1'-0"

Date: 9/04/2007

CWS Proj. No.: 2006-447-1a

Drawing Number:

A1.3



A

FLOOR PLAN - TILE PATTERN (EAST SIDE)

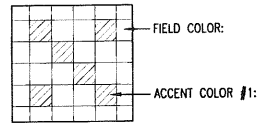
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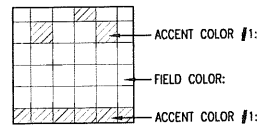
ISSUED FOR CONSTRUCTION

TILE PATTERN LEGEND:

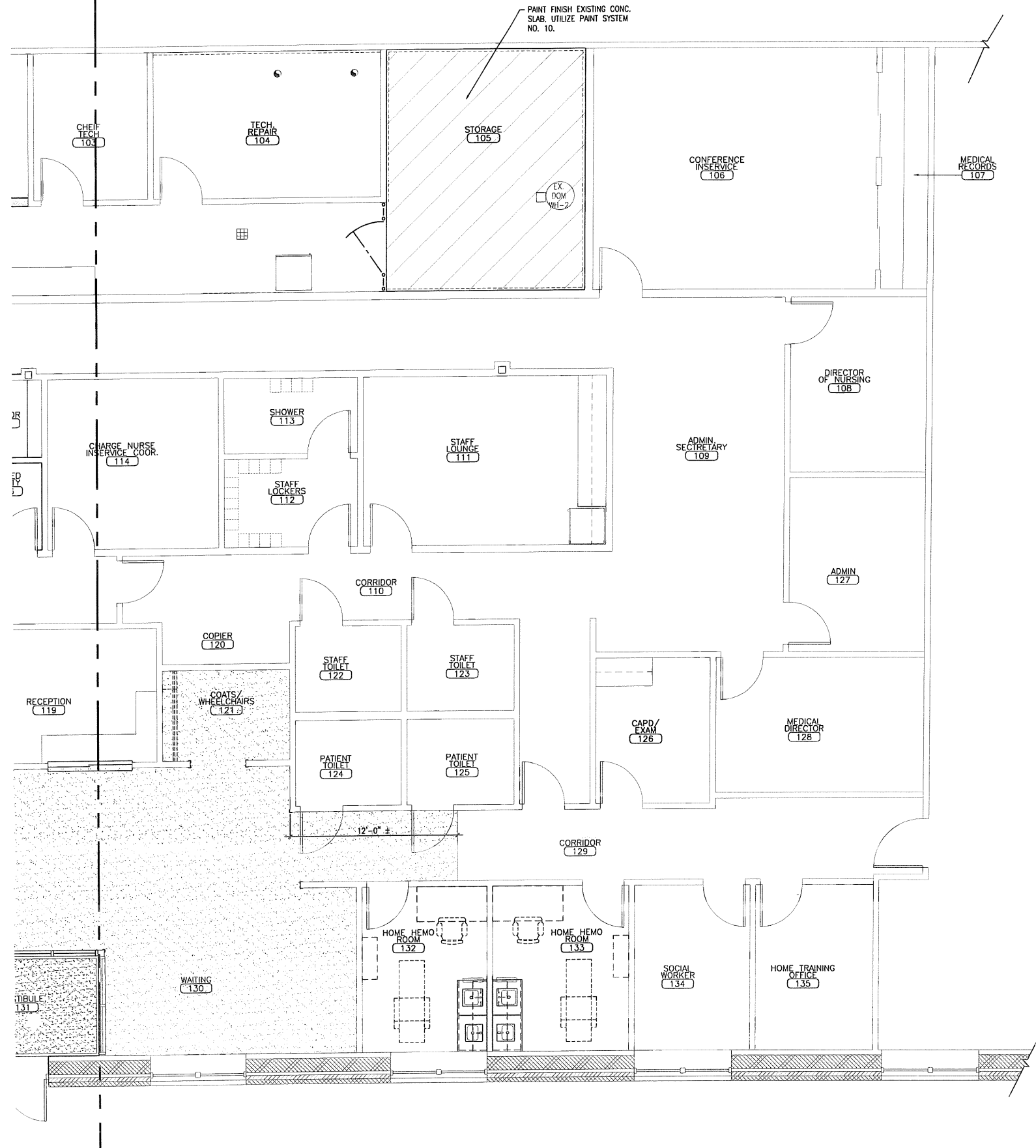
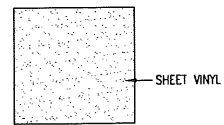
TREATMENT ROOM (118)



NURSE'S STATION



WAITING



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(781) 891-0830

REVISIONS:	
Description:	Date:

Drawing Title: **FLOOR PLAN -
TILE PATTERN
(WEST SIDE)**
Scale: 1/4" = 1'-0"
Date: 9/04/2007
CWS Proj. No.: 2006-147.fpk

Drawing Number:

A1.4

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REVISIONS:	
Description	Date

Drawing Title:
**FLOOR PLAN -
TILE PATTERN
(EAST SIDE)**
Scale: 1/4" = 1'-0"
Date: 9/04/2007
CWS Proj. No.: 2006.447.f01

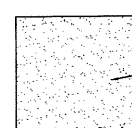
Drawing Number:
A1.7
ALT. #3



ISSUED FOR CONSTRUCTION

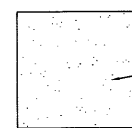
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WAITING (130)

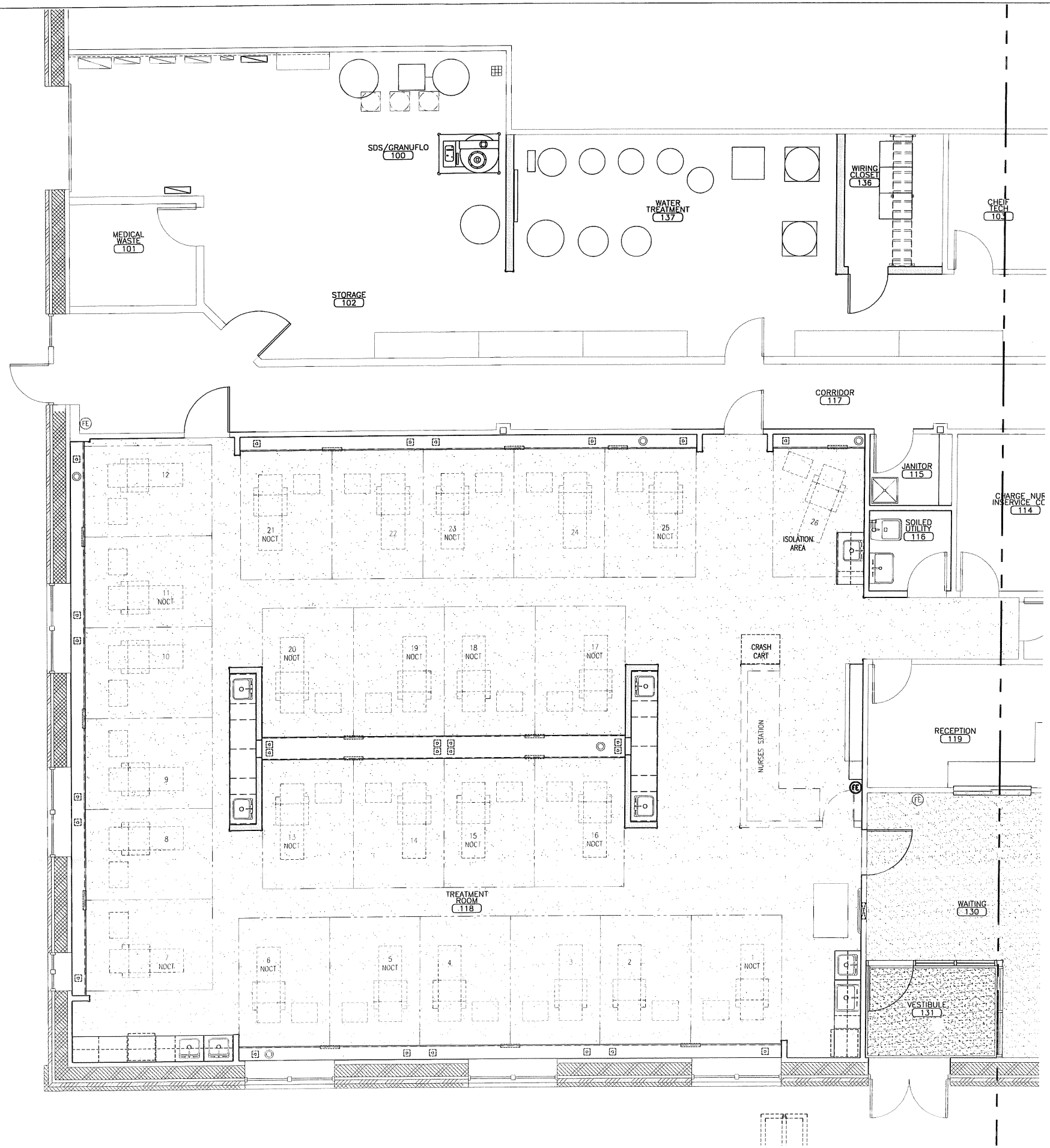


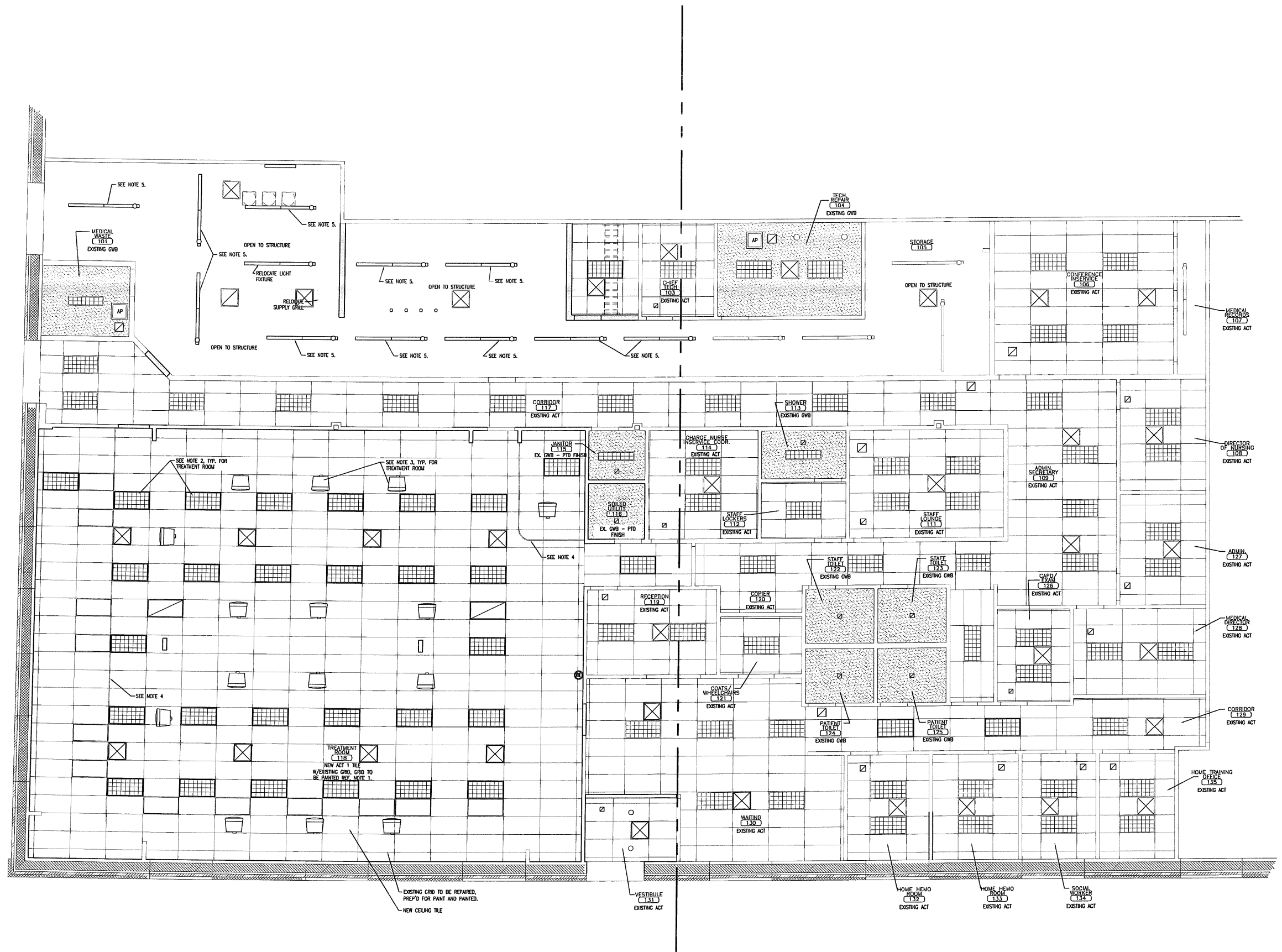
SHEET VINYL

TREATMENT ROOM (118)



SHEET VINYL





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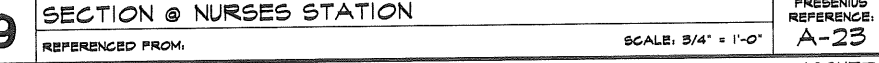
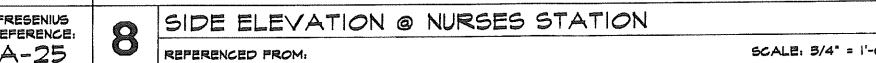
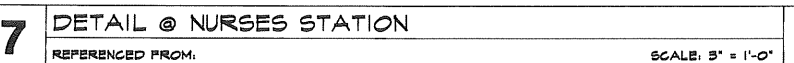
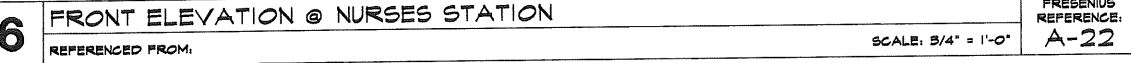
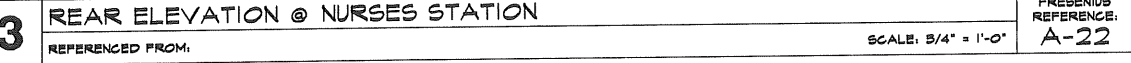
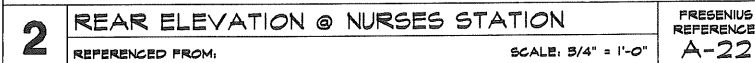
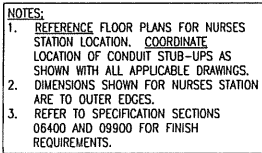
Owner: **FRESENIUS MEDICAL SERVICES DIALYSIS SERVICES NORTH AMERICA**
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(781) 891-0850

REVISIONS	
Revision	Description

Drawing Title: **OVERALL REFLECTED CEILING PLAN**
Scale: 3/16" = 1'-0"
Date: 9/04/2007
CWS Proj. No. 2006-4471a

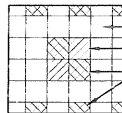
Drawing Number:
A2.0





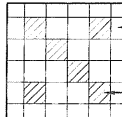
TILE PATTERN LEGEND:

CORRIDOR (129)



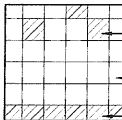
FIELD COLOR:
ACCENT COLOR:
HIGHLIGHT COLOR:

TREATMENT ROOM (118)



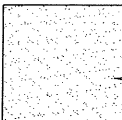
FIELD COLOR:
ACCENT COLOR #1:

NURSE'S STATION

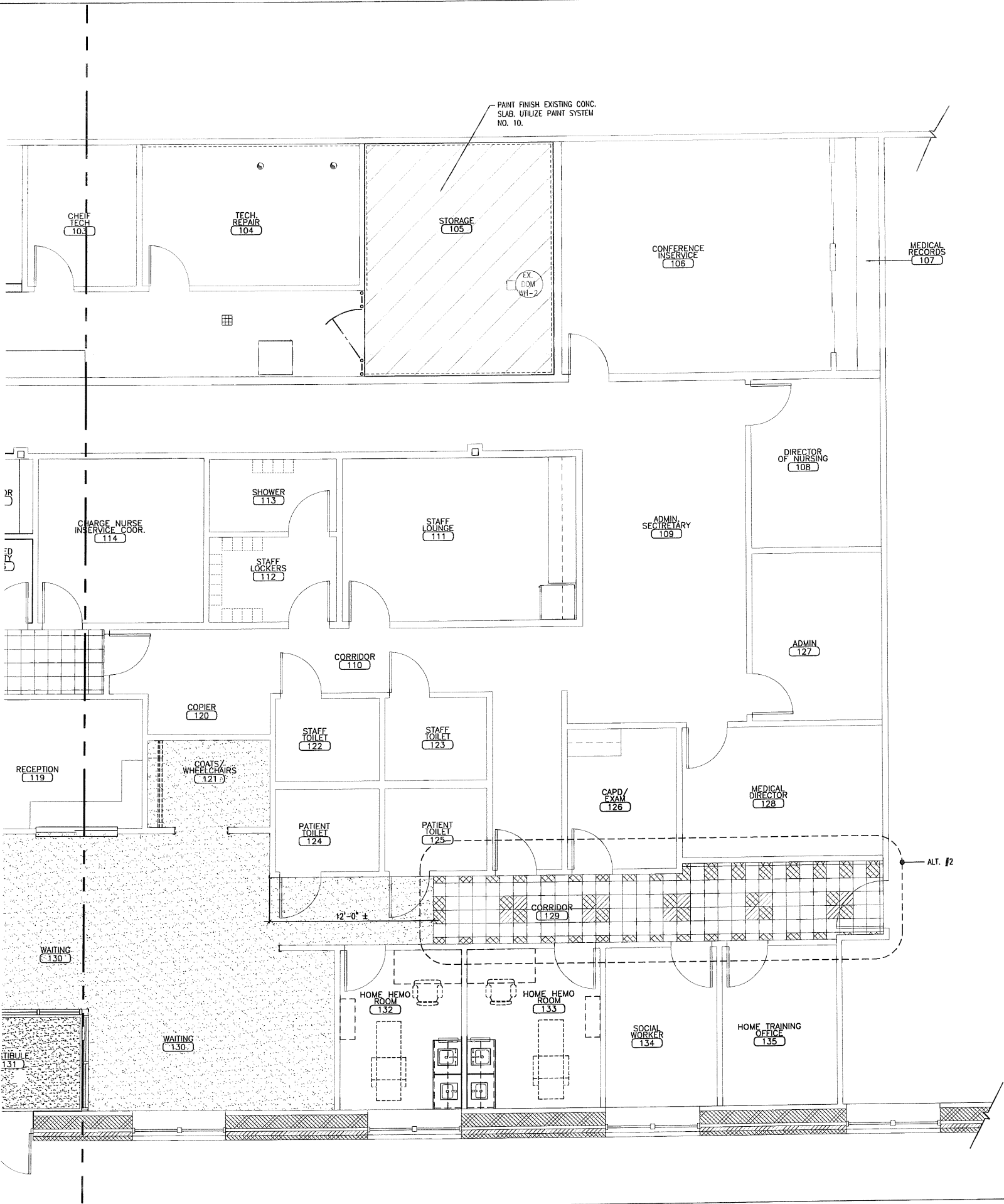


ACCENT COLOR #1:
FIELD COLOR:
ACCENT COLOR #1:

WAITING



SHEET VINYL



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NORTH AMERICA
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(781) 891-0830

REVISIONS:

Description:

Drawing Title:
FLOOR PLAN -
TILE PATTERN
(WEST SIDE)

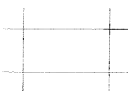
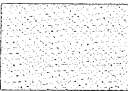
Scale: 1/4" = 1'-0"
Date: 9/04/2007
CWS Proj. No.: 2006 447.txd



Drawing Number:
A1.6
ALT. #2

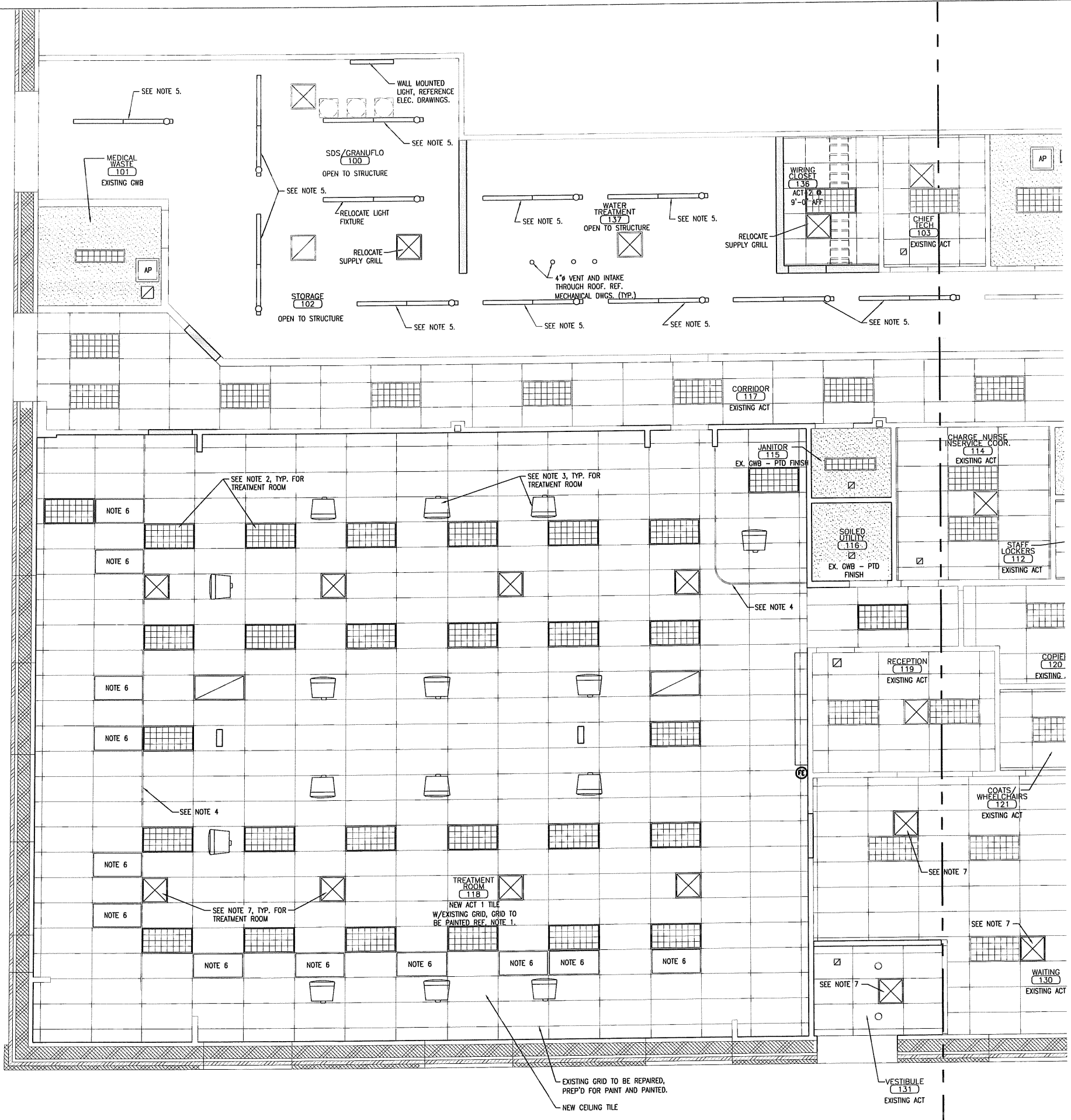
ISSUED FOR CONSTRUCTION

REFLECTED CEILING LEGEND

ACT: 2x4 SUSPENDED
CEILING SYSTEMGWB: SUSPENDED GYPSUM WALL
BOARD CEILING SYSTEM. GWB TO
BE 5/8" DENS ARMOR PLUS
FIREGUARD.RETURN AIR DEVICE
REF... MECHANICALSUPPLY AIR DEVICE
REF... MECHANICAL2x4 FLUORESCENT FIXTURE
REF... ELECTRICALEXISTING FIXTURE
REF... ELECTRICALRECESSED FIXTURE
REF. ELECTRICAL

NEW WORKS CEILING NOTES:

1. EXISTING SUSPENDED CEILING ACT GRID SYSTEM TO REMAIN. CLEAN & REPAIR EXISTING ACT CEILING GRID AND REPLACE EXISTING ACT CEILING TILES WITH SPECIFIED TILES. REFERENCE MEP DRAWINGS FOR FURTHER INFORMATION.
2. REINSTALL LIGHTS IN THE SAME LOCATION, AFTER CEILING GRID WORK HAS BEEN COMPLETED. REFERENCE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
3. INSTALL SALVAGED TV AND BRACKET. PROVIDE DVD BRACKET WITH EXISTING TV BRACKET. REFERENCE DETAIL 5/A7.6 & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. INSTALL SALVAGED CUBICLE CURTAIN TRACK AND CURTAIN ENCLOSURE SYSTEM.
5. LOWER CHAIN HUNG FLOURESCENT FIXTURES 1'-0".
6. NEW ELECTRIC HEATING PANEL. REFERENCE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
7. NEW DIFFUSER/GRILLE. REFERENCE MECHANICAL DRAWINGS FOR MORE INFORMATION.
8. INSTALL NEW 2x4 LIGHTS IN THE SAME LOCATION AS REMOVED LIGHTS. REFERENCE ELECTRICAL DRAWINGS FOR MORE INFORMATION.



North

A

REFLECTED CEILING PLAN (EAST SIDE)

REFERENCED FROM:



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NORTH AMERICA**
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(781) 891-0829
(781) 891-0830

REVISIONS:

Description:

Drawing Title:
**REFLECTED CEILING
PLAN (EAST SIDE)**

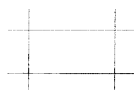
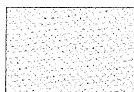
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Date: 9/04/2007
CWS Proj. No.: 2006 447.fid

Drawing Number:

A2.1

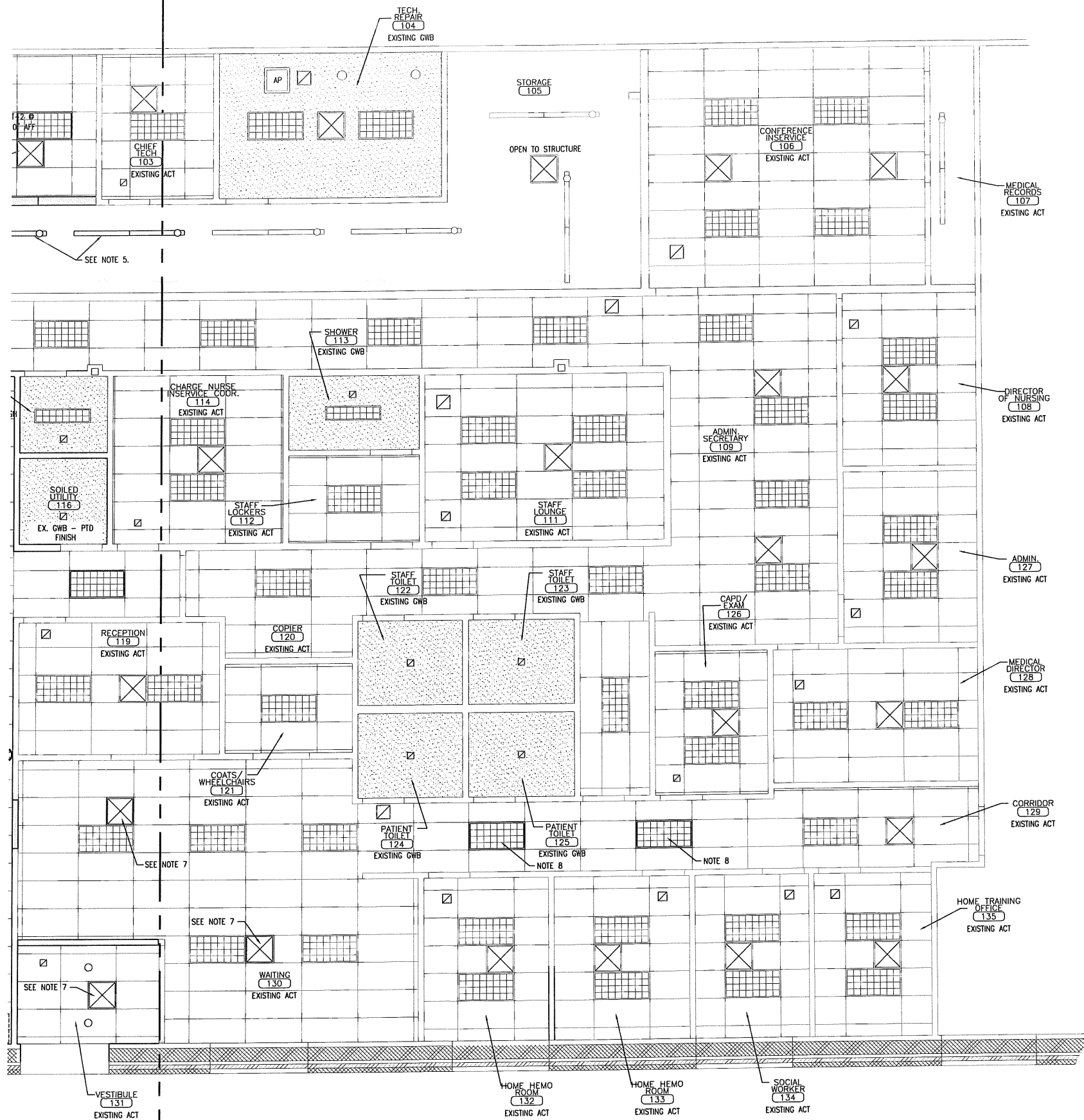
ISSUED FOR CONSTRUCTION

REFLECTED CEILING LEGEND

ACT: 2x4 SUSPENDED
CEILING SYSTEMGWB: SUSPENDED GYPSUM WALL
BOARD CEILING SYSTEM. GWB TO
BE 5/8" DENS ARMOR PLUS
FIREGUARD.RETURN AIR DEVICE
REF... MECHANICALSUPPLY AIR DEVICE
REF... MECHANICAL2x4 FLUORESCENT FIXTURE
REF... ELECTRICALEXISTING FIXTURE
REF... ELECTRICALRECESSED FIXTURE
REF... ELECTRICAL

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- REINSTALL LIGHTS IN THE SAME LOCATION, AFTER CEILING GRID WORK HAS BEEN COMPLETED. REFERENCE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- INSTALL SALVAGED TV AND BRACKET. PROVIDE DVD BRACKET WITH EXISTING TV BRACKET. REFERENCE DETAIL 5/A7.6 & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- INSTALL SALVAGED CUBICLE CURTAIN TRACK AND CURTAIN ENCLOSURE SYSTEM.
- LOWER CHAIN HUNG FLOURESCENT FIXTURES 1'-0".
- NEW ELECTRIC HEATING PANEL. REFERENCE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- NEW DIFFUSER/GRILLE. REFERENCE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- INSTALL NEW 2x4 LIGHTS IN THE SAME LOCATION AS REMOVED LIGHTS. REFERENCE ELECTRICAL DRAWINGS FOR MORE INFORMATION.



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REVISIONS:

Description:	Date:

Drawing Title:
**REFLECTED CEILING
PLAN (WEST SIDE)**

Scale: 1/4" = 1'-0"

Date: 9/04/2007

CWS Proj. No.: 2006-447.fps

Drawing Number:

A2.2



North

A

REFLECTED CEILING PLAN (WEST SIDE)

REFERENCED FROM:

SCALE: 1/4" = 1'-0"

ISSUED FOR CONSTRUCTION

1 NOT USED

REFERENCED FROM:

SCALE:

3 DOOR AND DOOR FRAME ELEVATIONS

REFERENCED FROM:

SCALE: 1/4" = 1'-0"

DOOR OPERATION OF VESTIBULE DOORS
EXTERIOR VESTIBULE DOOR:

- UNSECURE:
- PANIC OR LATCH IS MANUALLY DOGGED, LEAVING DOOR UNLATCHED.
 - 110V IS PROVIDED TO DOOR OPERATOR VIA TIME CLOCK.
 - DOOR OPENER BUTTONS ACTIVATE DOOR OPERATOR.

- SECURE:
- PANIC OR LATCH IS NOT DOGGED, SO THAT DOOR IS LATCHED AND ACCESSIBLE FROM OUTSIDE BY KEY ONLY.
 - 110V REMOVED FROM DOOR OPERATOR VIA TIME CLOCK.

INTERIOR VESTIBULE DOOR:

- UNSECURE:
- ROCKER SWITCH IS IN "UNSECURE" POSITION.
 - INTERIOR AND EXTERIOR DOOR OPENER BUTTONS WILL ACTIVATE DOOR OPERATOR.
 - PUSH-N-GO WILL ACTIVATE DOOR FROM BOTH SIDES.

- SECURE:
- ROCKER SWITCH IS IN "SECURE" POSITION.
 - EXTERIOR DOOR OPENER BUTTON IS DEAD.
 - INTERIOR DOOR OPENER BUTTON, DOOR RELEASE AT NURSES STATION AND DOOR RELEASE AT RECEPTION WILL UNLOCK THE ELECTRIC STRIKE AND ACTIVATE THE INSIDE SENIOR SWING.
 - PUSH-N-GO WILL ACTIVATE DOOR WHEN EXITING.

DOOR OPERATION OF DIALYSIS
TREATMENT ROOM DOOR

- UNSECURE:
- ROCKER SWITCH IS IN "UNSECURE" (CLOSED) POSITION.
 - PUSH BUTTONS ACTIVATE DOOR OPERATOR ONLY.

- SECURE:
- ROCKER SWITCH IS IN "SECURE" (OPEN) POSITION.
 - ALCOVE DOOR OPENER BUTTON EXIT ONLY.

LEGEND

- DOOR OPENER BUTTON SUPPLIED BY INGERSOL-RAND CO.
- DOOR RELEASE TO ELECTRIC DOOR STRIKE BY E.C.
- INTERCOM
- INTERCOM PANEL
- ROCKER SWITCH
- TIME CLOCK
- JUNCTION BOX

@ NURSE'S STATION

- DOOR RELEASE FOR VESTIBULE DOOR 131
- DOOR RELEASE FOR DOOR 118A
- INTERCOM PANEL
- ROCKER SWITCH FOR DOOR 118A

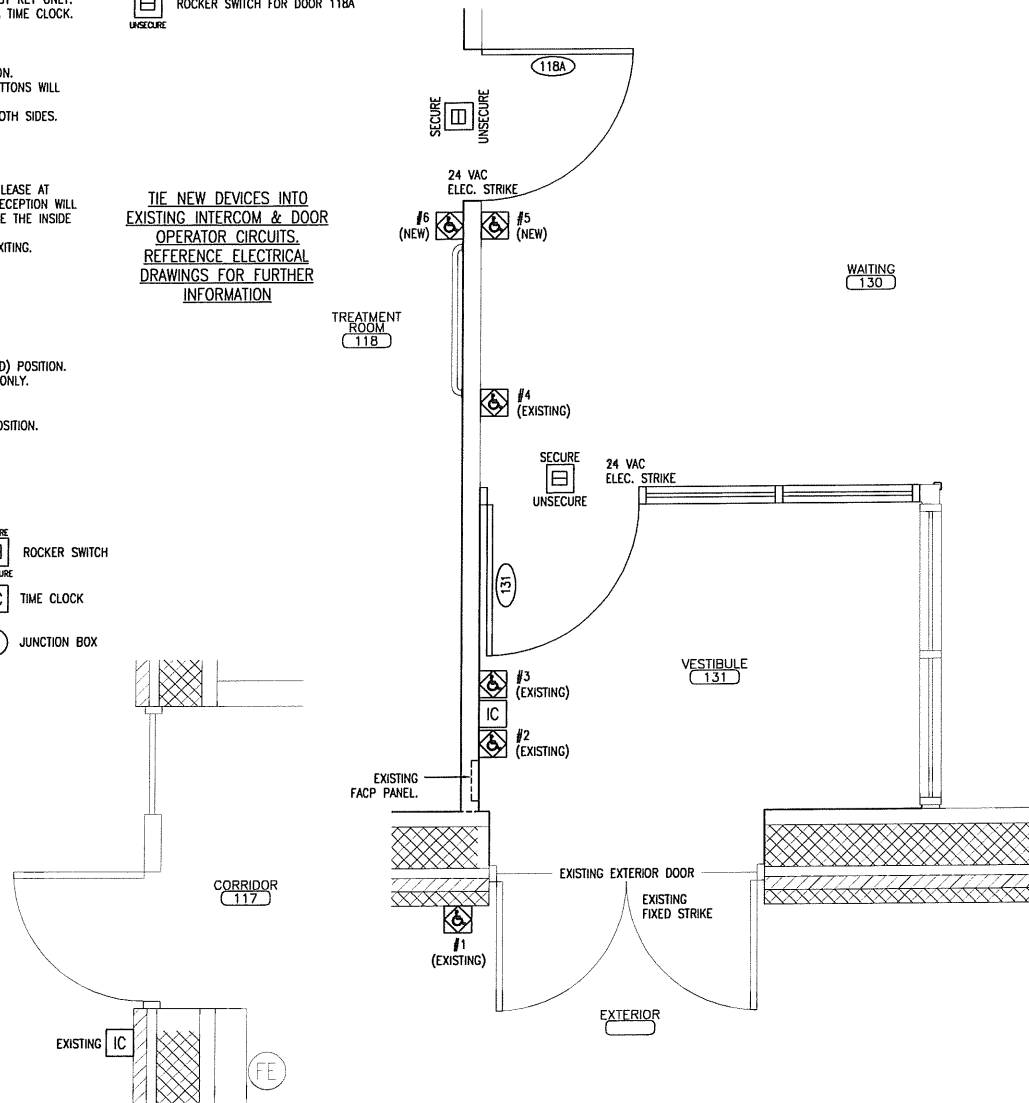
@ CORRIDOR [117]

- EXISTING INTERCOM

@ RECEPTION [119]

- DOOR RELEASE FOR VESTIBULE DOOR 131
- DOOR RELEASE FOR DOOR 118A
- INTERCOM PANEL

TIE NEW DEVICES INTO EXISTING INTERCOM & DOOR OPERATOR CIRCUITS. REFERENCE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION



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

11 INTERIOR ALUM. STOREFRONT JAMB DETAIL

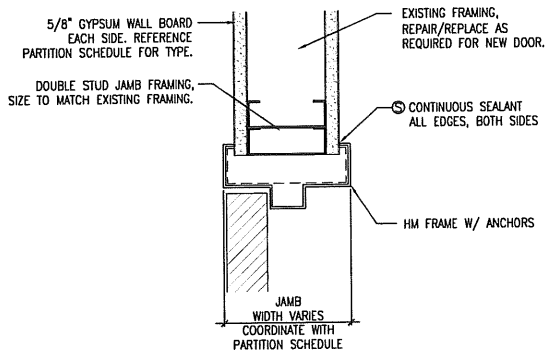
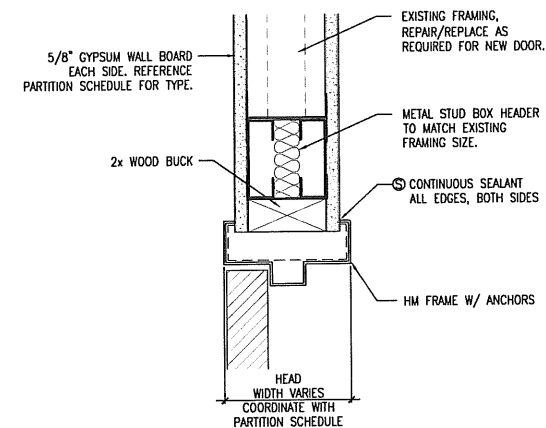
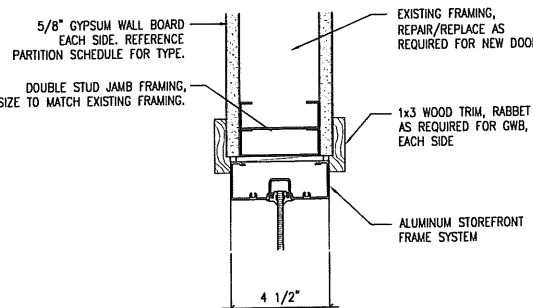
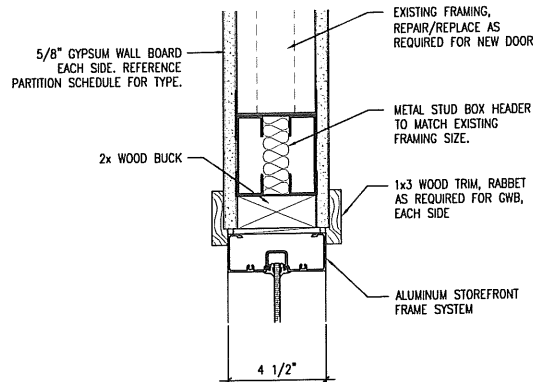
REFERENCED FROM:

SCALE: 5" = 1'-0"

12 JAMB DETAIL AT HOLLOW METAL FRAME

REFERENCED FROM:

SCALE: 5" = 1'-0"



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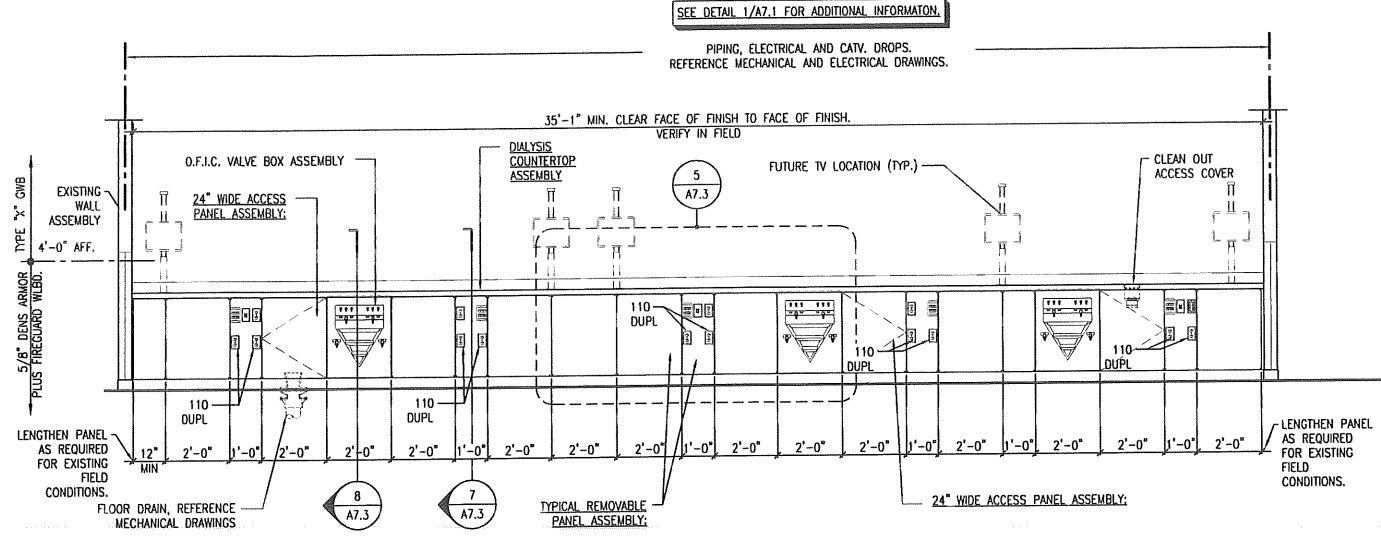
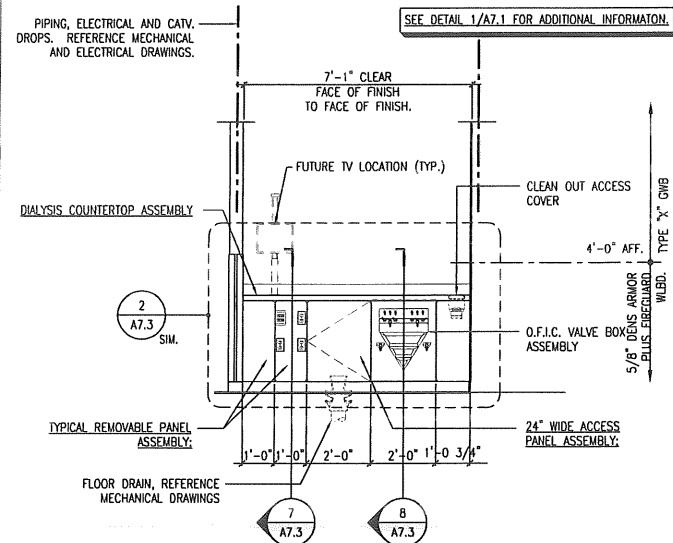
REVISIONS:	
Date:	Description:

Drawing Title:
**DOOR & DOOR
FRAME ELEVATIONS
& MISC DETAILS**

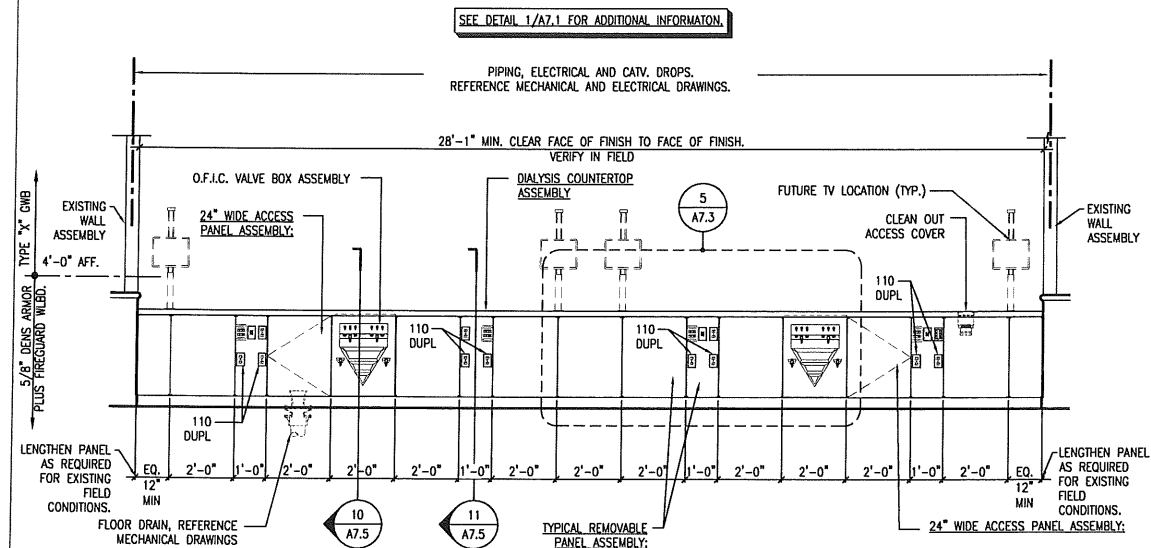
AS NOTED
9/04/2007
Date:
CWS Proj. No.: 2006-447.frb

Drawing Number:
A4.0

ISSUED FOR CONSTRUCTION



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REFERENCE:
A-27



SEE DETAIL 1/A7.1 FOR ADDITIONAL INFORMATION.

PIPING, ELECTRICAL AND CATV DROPS.
REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS.

42"-8 1/2" MIN. CLEAR FACE OF FINISH TO FACE OF FINISH.
VERIFY IN FIELD

O.F.I.C. VALVE BOX ASSEMBLY

24" WIDE ACCESS PANEL ASSEMBLY

DIALYSIS COUNTERTOP ASSEMBLY

2

A7.3

FUTURE TV LOCATION (TYP.)

CLEAN OUT ACCESS COVER

EXISTING WALL ASSEMBLY

TYPE "X" GMB

5/8" DEHS ARMOR PLUS FREQUARD WLB.

4'-0" AFF.

CORNER GUARDS

110 DUPL.

EQ. 12" MIN

LENGTHEN PANEL AS REQUIRED FOR EXISTING FIELD CONDITIONS.

FLOOR DRAIN, REFERENCE MECHANICAL DRAWINGS

8

A7.3

7

A7.3

TYPICAL REMOVABLE PANEL ASSEMBLY

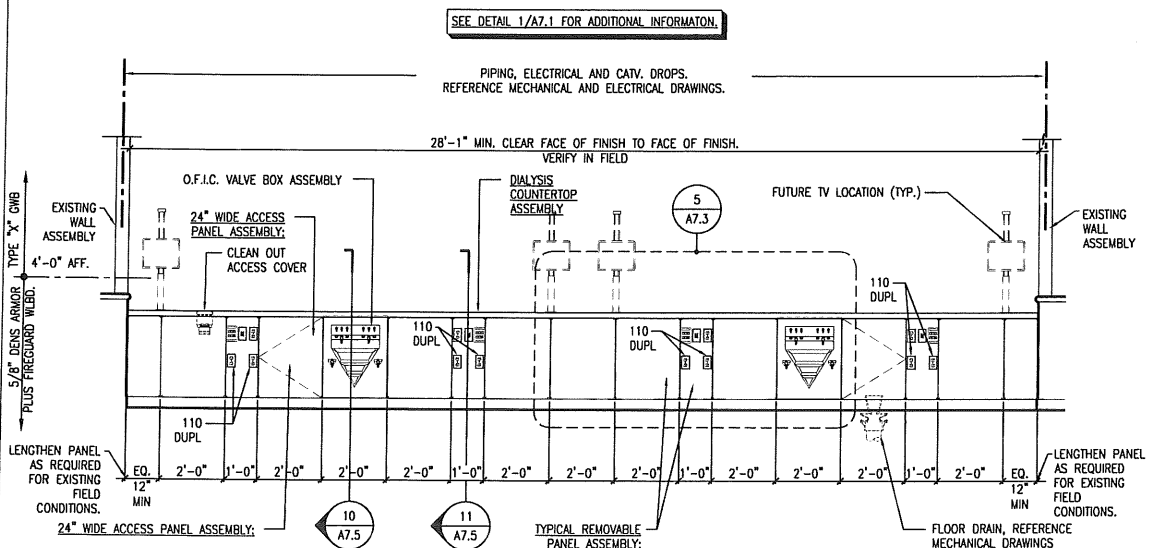
24" WIDE ACCESS PANEL ASSEMBLY

110 DUPL.

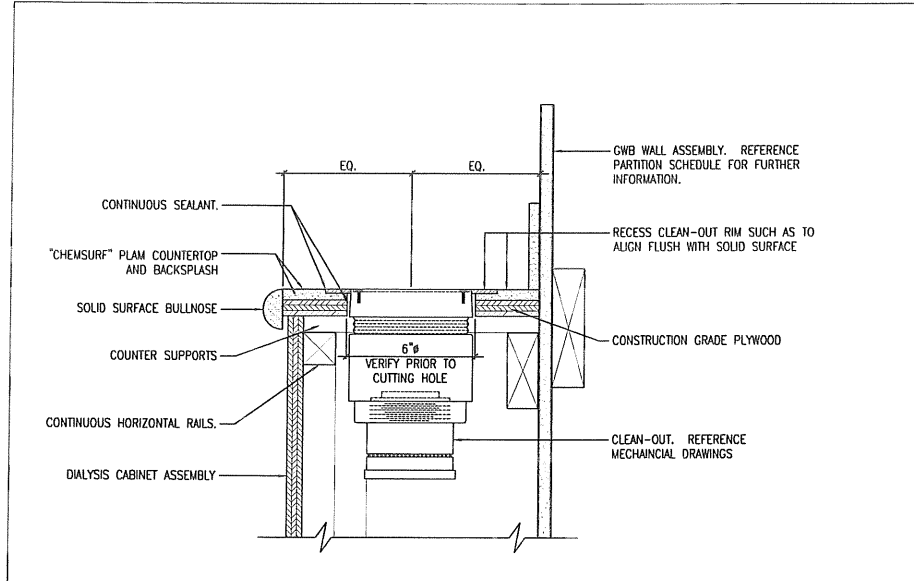
EQ. 12" MIN

LENGTHEN PANEL AS REQUIRED FOR EXISTING FIELD CONDITIONS.

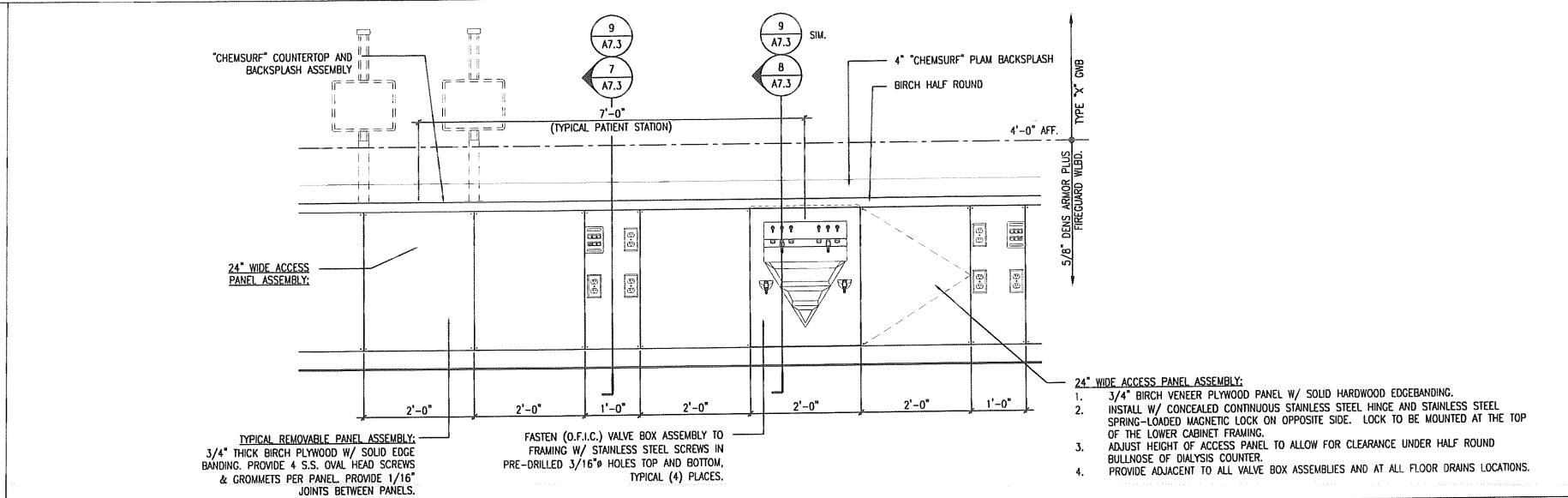
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REFERENCE:
A-27

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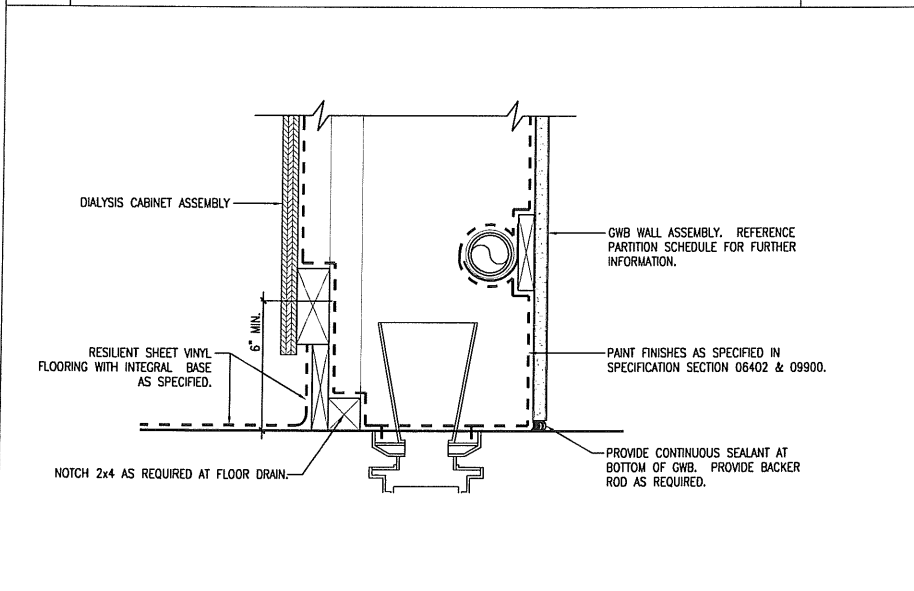
PRESENTS
REFERENCE
A-27



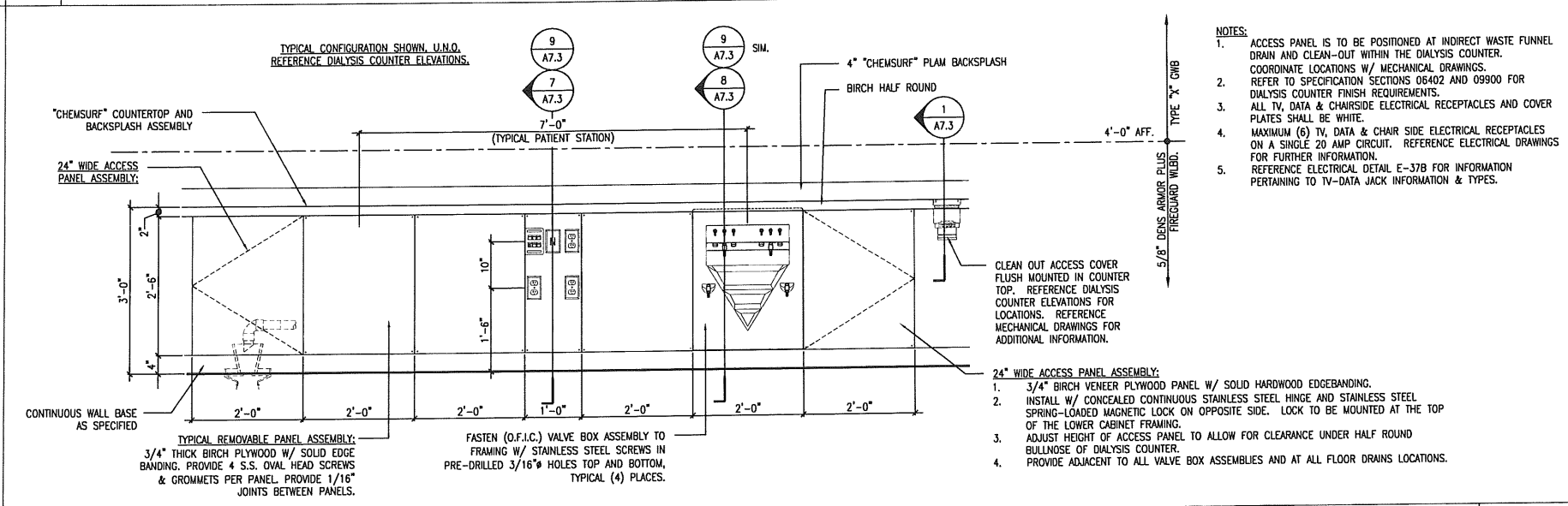
1 MECH. CLEAN OUT DETAIL @ DIALYSIS COUNTERTOP
REFERENCED FROM:
SCALE: 5" = 1'-0"
FRESENIUS REFERENCE: P-5A



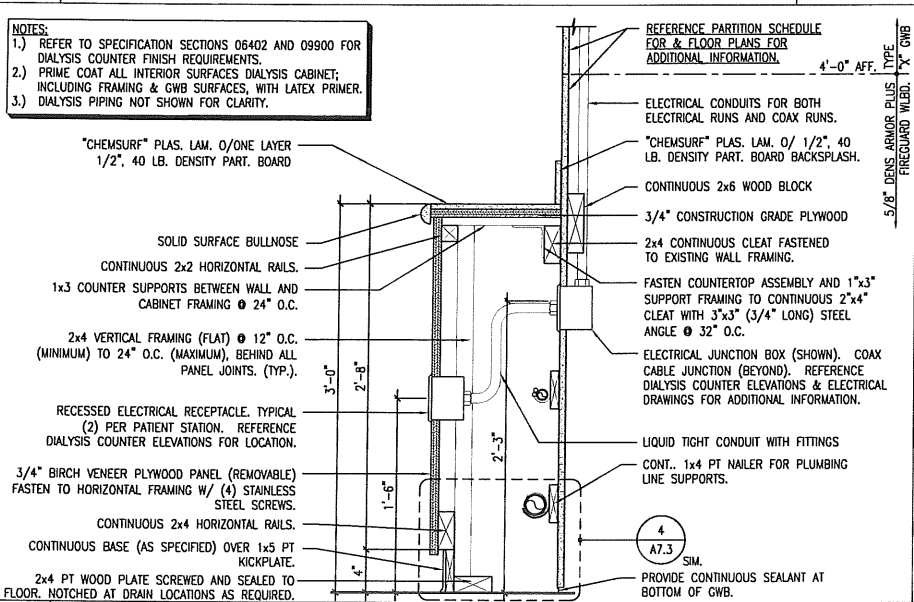
2 TYPICAL DIALYSIS COUNTER ELEVATION @ STANDARD PATIENT STATION
REFERENCED FROM:
SCALE: 5/4" = 1'-0"
FRESENIUS REFERENCE: AD-46



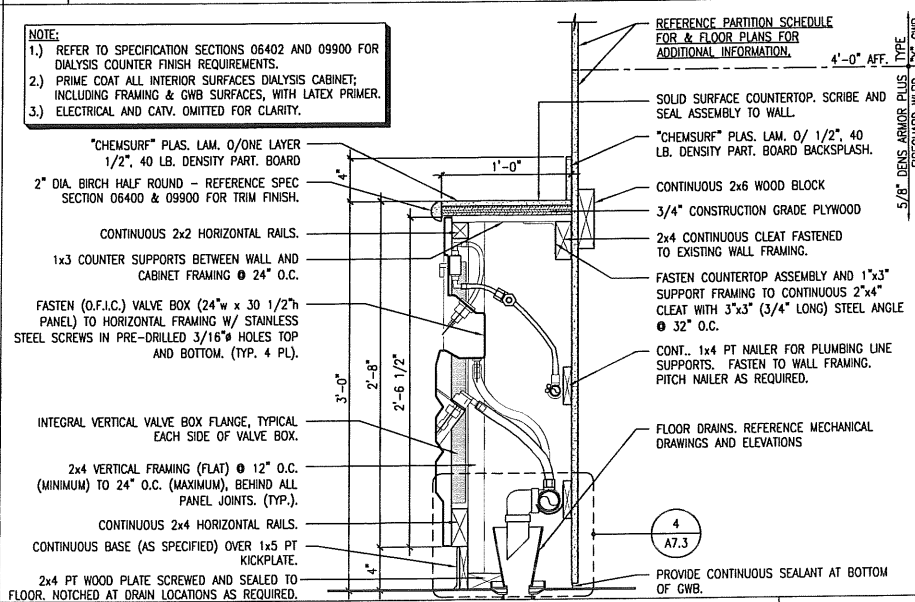
4 WATER PROOFING DETAIL @ DIALYSIS COUNTER
REFERENCED FROM:
SCALE: 5" = 1'-0"
FRESENIUS REFERENCE: AD-57



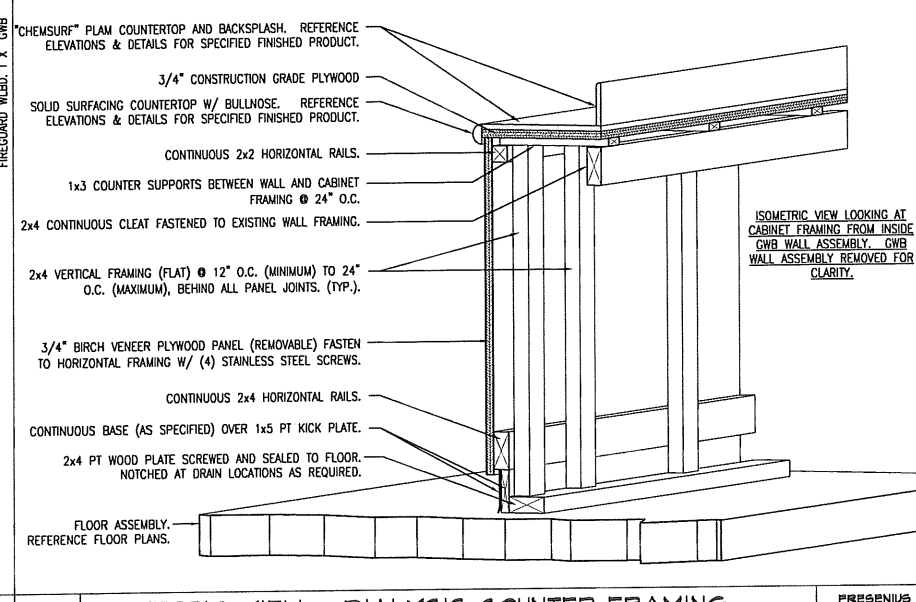
5 TYPICAL DIALYSIS COUNTER ELEVATION @ NOCTURNAL PATIENT STATION
REFERENCED FROM:
SCALE: 5/4" = 1'-0"
FRESENIUS REFERENCE: AD-46



7 ELECTRICAL SECTION. @ DIALYSIS COUNTER
REFERENCED FROM:
SCALE: 1 1/2" = 1'-0"
FRESENIUS REFERENCE: AD-49



8 MECHANICAL SECTION. @ DIALYSIS COUNTER
REFERENCED FROM:
SCALE: 1 1/2" = 1'-0"
FRESENIUS REFERENCE: AD-44



9 ISOMETRIC VIEW @ DIALYSIS COUNTER FRAMING
REFERENCED FROM:
SCALE: 1 1/2" = 1'-0"
FRESENIUS REFERENCE: ***

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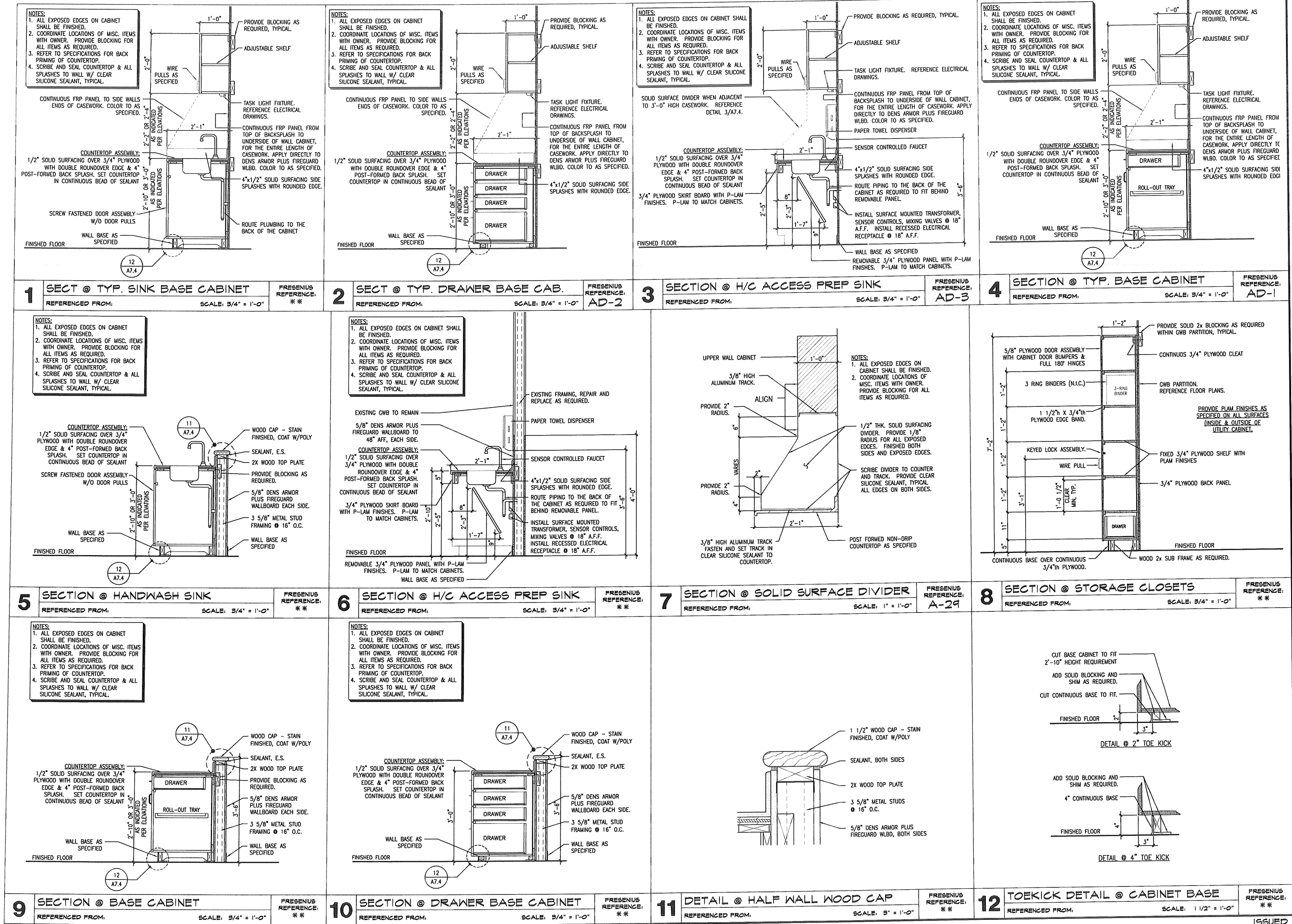
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REVISIONS:
Date: _____
Description: _____

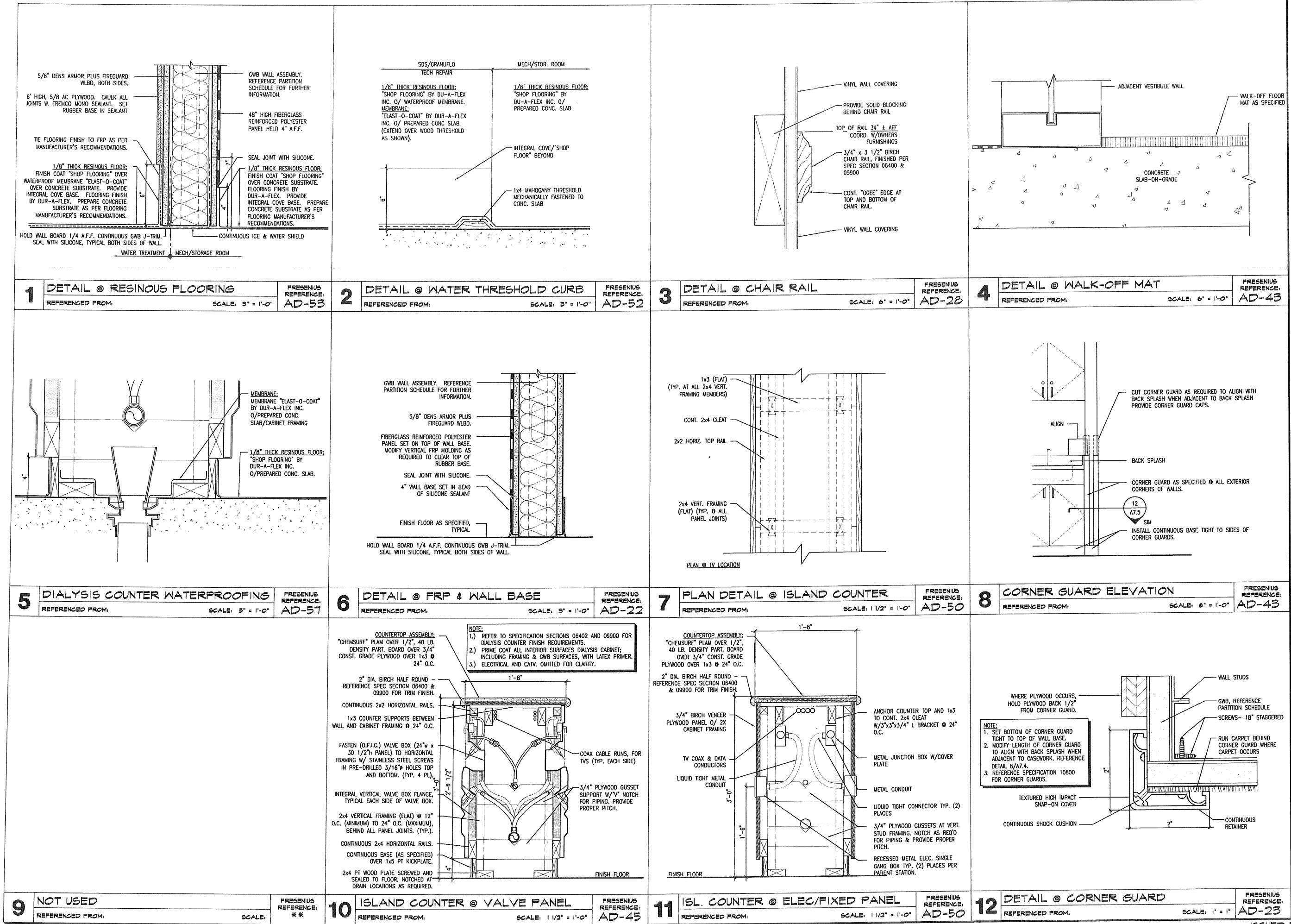
DIALYSIS COUNTER ELEVATION, MISC. SECTIONS AND DETAILS
Drawing Title: _____
Scale: AS NOTED
Date: 9/04/2007
CWS Proj. No.: 2006 447.fda

A7.3
ISSUED FOR CONSTRUCTION



REVISIONS:
Date:
Description:

Drawing Title:
MISC. SECTIONS AND DETAILS
Scale:
Date:
CWS Proj. No.: 2006-447-1st



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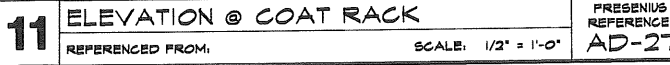
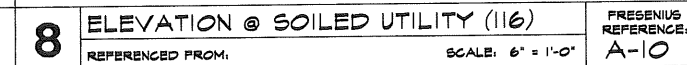
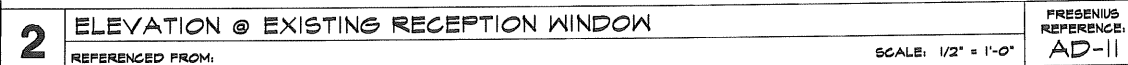
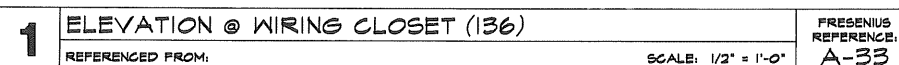
Date:	Description:

Drawing Title: MISC. SECTIONS AND DETAILS

Scale: AS NOTED
Date: 9/04/2007
CWS Proj. No.: 2006-447-1b

A7.5

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Owner: _____

REVISIONS.

Description:

**MISC. ELEVATIONS
AND DETAILS**

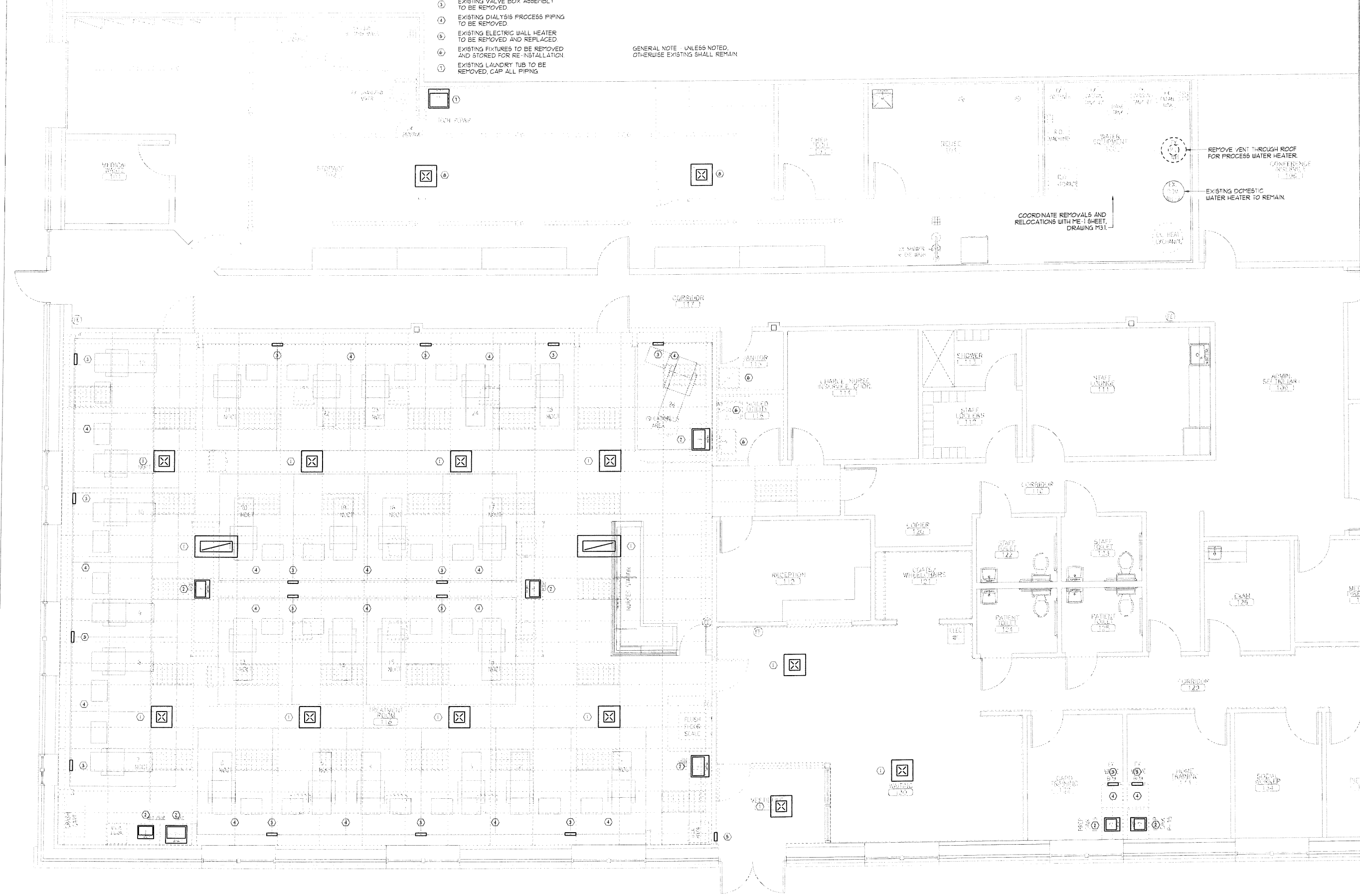
Drawing Number:

A7.6

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DEMOLITION NOTES

- ① EXISTING CEILING DIFFUSER/GRILLE TO BE REMOVED AND REPLACED.
 - ② EXISTING SINK AND MIXING VALVE TO BE REMOVED AND REPLACED.
 - ③ EXISTING VALVE BOX ASSEMBLY TO BE REMOVED.
 - ④ EXISTING DIALYSIS PROCESS PIPING TO BE REMOVED.
 - ⑤ EXISTING ELECTRIC WALL HEATER TO BE REMOVED AND REPLACED.
 - ⑥ EXISTING FIXTURES TO BE REMOVED AND STORED FOR RE-INSTALLATION.
 - ⑦ EXISTING LAUNDRY TUB TO BE REMOVED, CAP ALL PIPING.
 - ⑧ EXISTING DIFFUSER/GRILLE TO BE RELOCATED.
- GENERAL NOTE: UNLESS NOTED, OTHERWISE EXISTING SHALL REMAIN.



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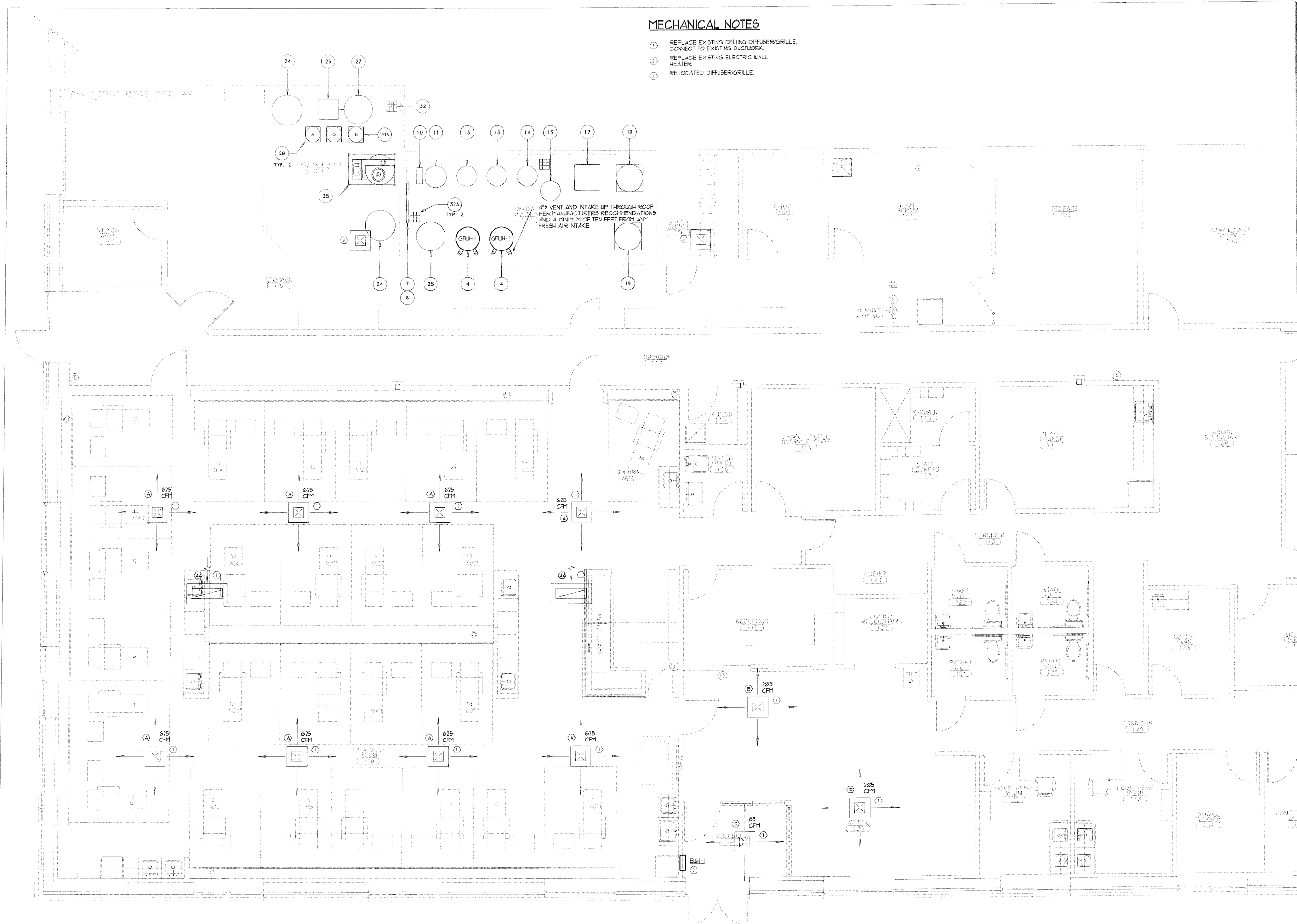
REVISIONS	Description	Date
1		
2		
3		
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14		
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18		
19		
20		

Drawing Title:
**MECHANICAL
REMOVALS PLAN**

Scale: 1/4" = 1'-0"
Date: 9/04/2007
CWS Proj. No: 2006.447.fpt

Drawing Number:
DM1.1

- ① REPLACE EXISTING CEILING DIFFUSER/GRILLE.
CONNECT TO EXISTING DUCTWORK.
- ② REPLACE EXISTING ELECTRIC WALL
HEATER.
- ③ RELOCATED DIFFUSER/GRILLE.



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[illegible]

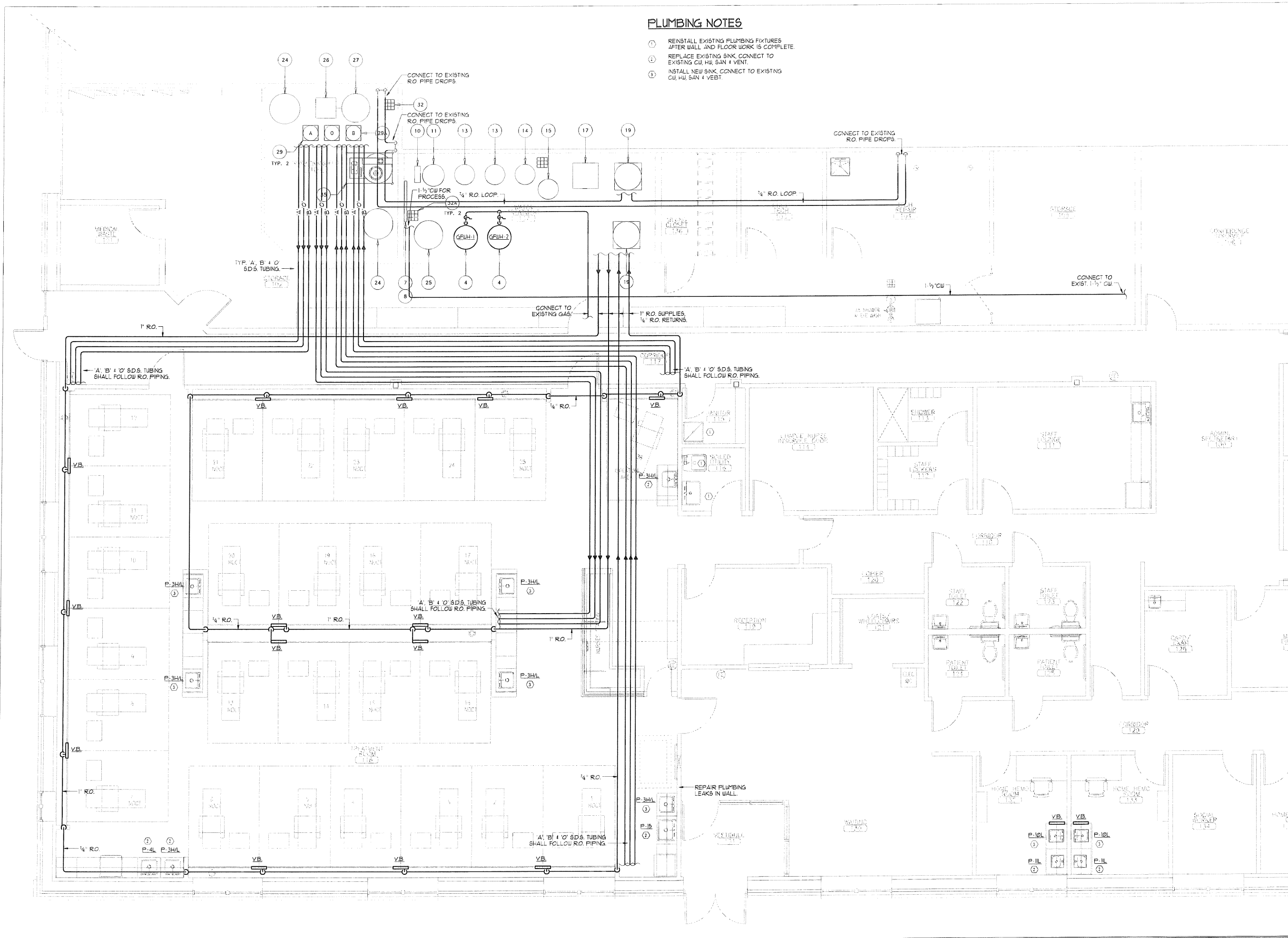
Drawing Number:

M1.1

ISSUED FOR CONSTRUCTION

PLUMBING NOTES

- REINSTALL EXISTING PLUMBING FIXTURES AFTER WALL AND FLOOR WORK IS COMPLETE.
- REPLACE EXISTING SINK, CONNECT TO EXISTING CU, HW, SAN & VENT.
- INSTALL NEW SINK, CONNECT TO EXISTING CU, HW, SAN & VENT.



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REVISIONS	Description	Date

Drawing Title: **SUPPLY PLUMBING
PLAN**

Scale: 1/4" = 1'-0"

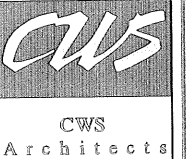
Date: 9/04/2007

CWS Proj. No.: 2006-447.fst

Drawing Number:
M2.1

PLUMBING NOTES

- REINSTALL EXISTING PLUMBING FIXTURES AFTER WALL AND FLOOR WORK IS COMPLETE
- REPLACE EXISTING SINK, CONNECT TO EXISTING CU, HW, SAN & VENT.
- INSTALL NEW SINK, CONNECT TO EXISTING CU, HW, SAN & VENT.
- PROVIDE NEW 3" VTR DEDICATED FOR DIALYSIS ROOM INDIRECT WASTE PIPING
- CONNECT TO EXISTING FLOOR DRAIN WITH FUNNEL IN CABINET.



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REVISIONS:

Date:

Description:

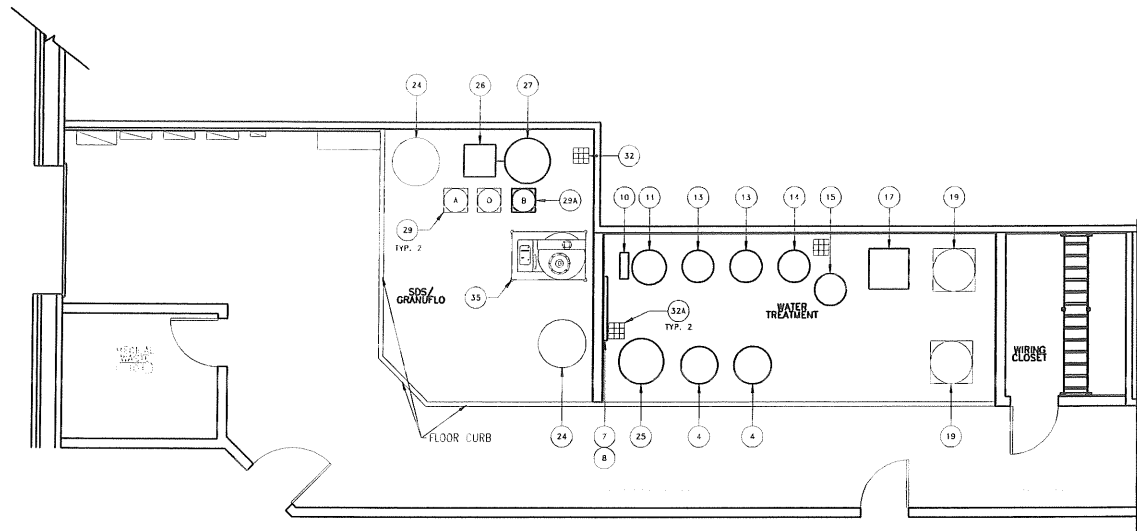
Drawing Title:
SANITARY
PLUMBING PLAN

Scale: 1/4" = 1'-0"
Date: 9/04/2007
CWS Proj. No.: 2006-447-114

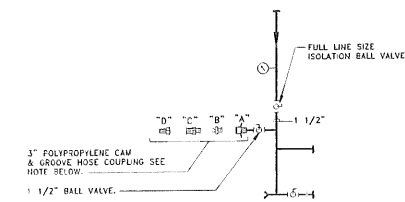
Drawing Number:

M2.2

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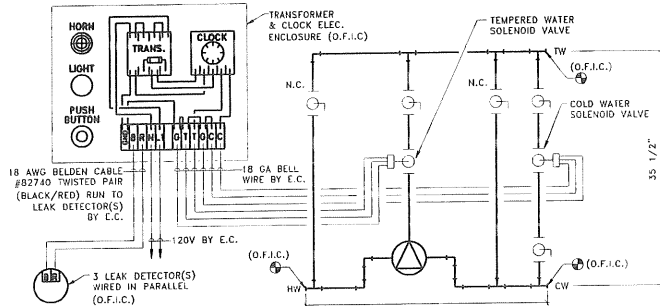


PARTIAL FLOOR PLAN
SCALE: NONE=1'-0"



NOTE: PROVIDE FOOD-GRADE POLYPROPYLENE CAM & GROOVE HOSE COUPLINGS FROM MCMASTER-CARR (732-328-3200) WITH NIPERME GASKETS.
"A" 1-1/2" NPT MALE END X FEMALE ADAPTER END, PART #81105K58.
"B" 1-1/2" FEMALE DUST PLUG, PART #81105K92.
"C" 1-1/2" NPT MALE END X FEMALE COUPLER END, PART #81105K61.
"D" 3" NPT MALE X 1-1/2" NPT FEMALE REDUCER, PART #4598447.

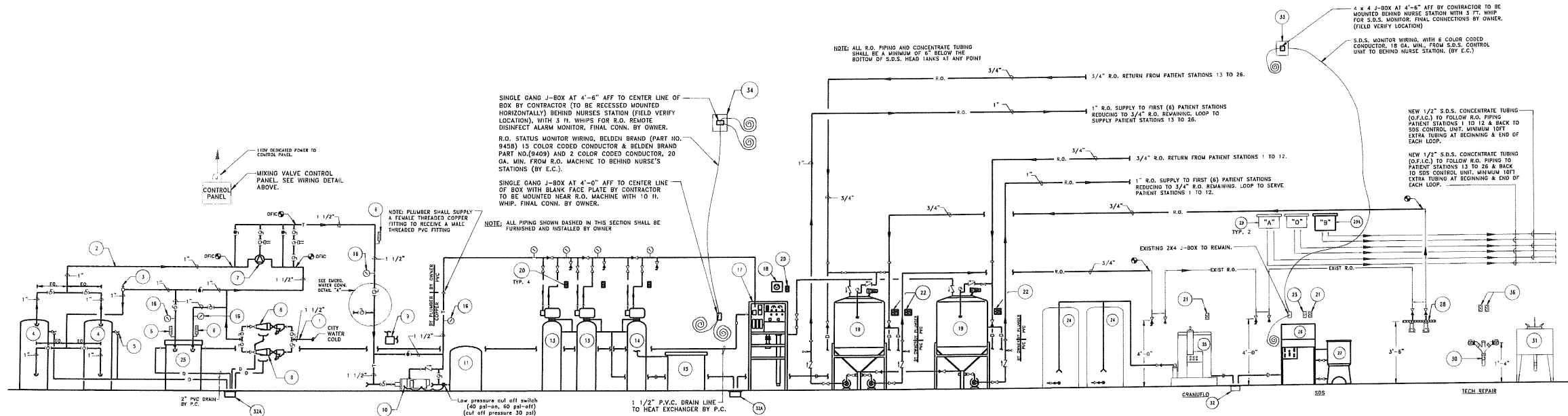
EMERGENCY WATER CONNECTION DETAIL "A"



SEQUENCE OF OPERATION

DURING OCCUPIED HOURS (TYPICALLY 5AM TO 12AM) THE TIME CLOCK ENERGIZES THE NORMALLY CLOSED TEMPERED WATER SOLENOID VALVE (OPEN) AND DE-ENERGIZES THE NORMALLY CLOSED COLD WATER BYPASS SOLENOID VALVE (CLOSED). DURING UNOCCUPIED HOURS (TYPICALLY 12AM TO 5AM) THE TIME CLOCK ENERGIZES THE NORMALLY CLOSED COLD WATER BYPASS SOLENOID VALVE (OPEN) AND DE-ENERGIZES THE NORMALLY CLOSED TEMPERED WATER SOLENOID VALVE (CLOSED). SETTING THE TIME CLOCK OCCUPIED/UNOCCUPIED HOURS SHALL BE COORDINATED WITH THE CARBON TANK BACK WASH CYCLE HOURS.
UPON LEAK DETECTOR(S) SENSING WATER, INTERNAL LEAK DETECTION RELAY SHALL DE-ENERGIZE TEMPERED WATER AND COLD WATER SOLENOID VALVES (CLOSED). WATER SOLENOID VALVES SHALL REMAIN DE-ENERGIZED UNTIL ALARM CANCEL PUSHBUTTON IS DEPRESSED, CANCELING ALARM SEQUENCE AND RETURNING SYSTEM TO NORMAL OPERATION.

MIXING VALVE ASSEMBLY DIAGRAM



REVERSE OSMOSIS PROCESS WATER DISTRIBUTION SCHEMATIC

- | | | |
|--|--|--|
| 1 CITY WATER COLD (BY P.C.) | 14 NEW SOFTENER (O.F.I.) | 26 NEW S.D.S. CONTROL UNIT (O.F.I.) |
| 2 NEW PROCESS HOT WATER PIPING (120" F) (BY P.C.) | 15 NEW SOFTENER BRINE TANK (O.F.I.) | 27 NEW CONCENTRATE "B" TANK (O.F.I.) |
| 3 NEW VACUUM BREAKER (BY P.C.) | 16 NEW STAINLESS STEEL PRESSURE GAUGE (0-100 PSI) (BY P.C.) | 28 EXISTING TECH REPAIR R.O. VALVE ASSEMBLY TO REMAIN. |
| 4 NEW WATER HEATER (FOR PROCESS ONLY) (BY P.C.) | 17 NEW OSMONICS Z-12000 R.O. MACHINE (O.F.I.) WITH 75% RECOVERY. | 29 EXISTING S.D.S. HEAD TANKS TO REMAIN. |
| 5 NEW PRESSURE RELIEF VALVE PIPED TO FLOOR SINK WITH 2" AIR GAP (BY P.C.) | 18 NEW ELECTRICAL POWER RECEPTACLE FOR R.O. MACHINE NEMA TYPE L15-30R (FEMALE) 4-0" A.F.F. (BY P.C.) | 28A NEW 15 GAL. S.D.S. HEAD TANKS (O.F.I.C.) - TANK BOTTOM NOT TO EXCEED 11'-0" A.F.F. |
| 6 NEW THERMOMETER 30-100°F. MFG. BY TRICOR MODEL # 809 IN SEPARABLE BRASS WELL WITH OPTIONAL ORGANIC SPIRIT FILL (NO MERCURY) (BY P.C.) | 19 NEW 175 GAL. R.O. STORAGE TANK (O.F.I.) (CONTR. SHALL BE RESPONSIBLE FOR FINAL CONN. TO OWNER SUPPLIED UNIONS AS SHOWN) TANK HEIGHT IS 8'-4". CEILING HEIGHT SHALL BE AT LEAST 9'-0" AFF. | 30 EXISTING 2" STAND PIPE FOR TECH REPAIR TO REMAIN. |
| 7 NEW MIXING VALVE ASSEMBLY (O.F.I.C.) | 20 NEW 120 VOLT 20 AMP GFCI DUPLEX RECEPTACLE 6'-8" A.F.F., 4'-0" ON CENTER, FROM BOOSTER PUMP TO R.O. MACHINE (BY P.C.) | 31 EXISTING LAUNDRY TUB TO REMAIN. |
| 8 NEW 909 BACKFLOW PREVENTER MFG. BY WAITS REG. CO. WITH WYE STRAINER, WITH DRAIN FUNNELS, BLOW OFF BALL VALVE AND 5/8" HOSE BIBB TYP. (2) PL. (BY P.C.) | 21 EXISTING 120 VOLT 20 AMP GFCI DEDICATED DUPLEX RECEPTACLE TO REMAIN. | 32 EXISTING FLOOR SINK TO REMAIN. |
| 9 NEW 230V ELECTRICAL DISCONNECT SWITCH RATED AT 20 AMPS FOR BOOSTER PUMP. (BY P.C.) | 22 NEW 120 VOLT 20 AMP DEDICATED SWITCHED WIST-LOCK RECEPTACLE MFR. BY BRYANT MODEL # 70520R WITH WR104-CV FOR DISTRIBUTION PUMP. 4'-0" A.F.F. (BY P.C.) | 32A NEW FLOOR SINK (P.V.C.) MFG. BY PLASTIC ODITIES, INC. MODEL # PFS-400H W/ HALF GRATE. (BY P.C.) |
| 10 NEW PROCESS WATER BOOSTER PUMP (20 GPM @ 125 FT. HEAD) MFG. BY TEEL GRANGER CAT# 2PC19, 4-1/4" IMPELLER, 1 HP., 3450 RPM. (BY P.C.) WITH (O.F.I.C.) 2-POLE LOW PRESSURE CUT OFF SWITCH SQUARE D MODEL 2017 FSC-22444 GRANGER CAT# 2F41C, (230V-1P) - IF BUILDING IS PROVIDED WITH 208V SERVICE, A BUCK-BOOST TRANSFORMER SHALL BE USED. (BY P.C.) | 23 EXISTING 120V 20 AMP GFCI DEDICATED RECEPTACLE BY HUBBELL MODEL #5-20 TO REMAIN. | 33 NEW S.D.S. MONITOR LOCATED BEHIND NURSE STATION. FINAL CONNECTIONS BY OWNER. |
| 11 NEW PROCESS WATER EXPANSION TANK (56 GALLONS) ANITROL MODEL # W302. (BY P.C.) | 24 EXISTING GRANUFLO 250 GALLON "A" BULK STORAGE TANK TO REMAIN. | 34 NEW R.O. AUDIO VISUAL INTERLOCK MONITOR LOCATED BEHIND NURSE STATION. FINAL CONNECTIONS BY OWNER. |
| 12 NOT USED. | 25 NEW HEAT EXCHANGER (O.F.I.C.) | 35 EXISTING GRANUFLO MIXING UNIT TO REMAIN. |
| 13 NEW (TWO) 10 CU. FT. CARBON TANKS (O.F.I.) | | 36 EXISTING 120 VOLT 20 AMP HOSPITAL GRADE GFCI DEDICATED DUPLEX RECEPTACLE TO REMAIN. |

NOTES

- ALL CHANGES IN PIPE SIZE NECESSARY TO MATCH EQUIPMENT SHALL BE MADE AS CLOSE TO EQUIPMENT AS POSSIBLE.
- MOUNT BACKFLOW PREVENTERS FAR ENOUGH AWAY FROM WALL TO ALLOW ADEQUATE ROOM FOR REMOVAL.
- ALL PIPING CUTS SHALL BE MADE WITH P.V.C. SHEARS TO ENSURE THAT THERE ARE NO BURNS.
- CONTRACTOR SHALL TAKE EXTREME CARE WITH AMOUNT OF P.V.C. CEMENT USED TO ENSURE THAT EXCESS CEMENT WILL NOT CREATE RESTRICTIONS IN PIPING JOINTS.
- FOR THREADED FITTINGS USE ONLY TEFLON TAPE NO PIPE JOEL.
- ALL PIPING SHALL BE IDENTIFIED WITH "BRADY" TYPE MARKERS LOCATED AT 5'-0" MAX. INTERVALS AND ALL CHANGES IN DIRECTION, SHOWING CONTENTS AND DIRECTION OF FLOW AS REQUIRED BY OSHA AND OTHER APPLICABLE CODES.
- CONTRACTOR SHALL TAG ALL VALVES WITH 1/2" STAMPED BRASS TAGS (SEQUENTIALLY NUMBERED)

PROCESS HOT WATER HEATER CAPACITY

GAS WATER HEATER:	2 @ 100
TANK CAPACITY (GAL.)	2 @ 171
RECOVERY RATE G.P.H. @ 100°F. RISE	2 @ 150,000
NATURAL GAS B.T.U.H. INPUT	

LEGEND

- | | |
|--|---|
| 1/2" BRASS BALL VALVE (N.O.) NORMALLY OPEN | 1" COPPER PIPE (TEMPERED WATER) |
| 1/2" BRASS BALL VALVE (N.C.) NORMALLY CLOSED | 1" COLD WATER PIPING (CU. TYPE "L") |
| 1/2" DOUBLE TRUE UNION (PVC) BALL VALVE - CLOSED | 1" HOT WATER PIPING (CU. TYPE "L") |
| 1/2" DOUBLE TRUE UNION (PVC) BALL VALVE - OPEN | 1" DRAIN LINE (COPPER) |
| 1/2" DOUBLE TRUE UNION BALL VALVE W/ PVC GARDEN HOSE ADAPTOR | 1" PVC PIPE (SCH 80) (REVERSE OSMOSIS) |
| 1/2" DOUBLE TRUE UNION BALL VALVE W/ THREADED (FEMALE) ADAPTOR ONE END | 1" PVC PIPE (SCH 80) (REVERSE OSMOSIS) |
| 1/2" CHECK VALVE | 1" ABOVE FINISHED FLOOR |
| 1/2" BRASS HOSE BIBB W/ CAP | 1" D.F.I. OWNER FURNISHED INSTALLED BY CONTRACTOR |
| 1/2" PRESSURE/TEMP. RELIEF VALVE | 1" D.F.I. OWNER FURNISHED INSTALLED BY CONTRACTOR |
| 1/2" VACUUM BREAKER | 1" E.C. ELECTRICAL CONTRACTOR |
| 1/2" POINT OF CONNECTION | 1" P.C. PLUMBING CONTRACTOR |
| 1/2" SOLENOID | 1" CONNECT TO EXISTING. |
| 1/2" UNION | 1" TEMPERING VALVE |
| 1/2" BALL VALVE W/ GARDEN HOSE CONN. | 1" JUNCTION BOX |



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THIS SHEET IS SUBMITTED AS A REFERENCE DRAWING AS FURNISHED BY FRESNIUS MEDICAL CARE. IT DEPICTS ITEMS OF WORK REQUIRED BY THE CONTRACTOR IN CONJUNCTION WITH WORK SHOWN ON PLUMBING AND ELECTRICAL PLANS.

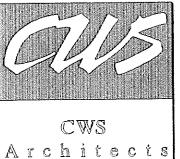
FMC-SOUTHERN MAINE, ME #1190-1
CONGRESS STREET
PORTLAND, ME 04102
MECHANICAL EQUIPMENT SCHEMATIC

Project Name
Sheet Title

No.	Date	Revision

Date: 7-13-07
Scale: AS NOTED
Drawn By: HVS
Checked By: MMM

Sheet Number
ME-1



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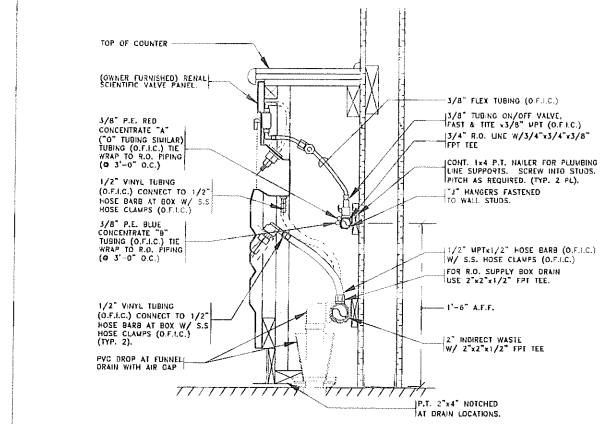
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REVISIONS:	Drawn By:	Date:

Drawing Title:
FRESNIUS ME-1
SHEET
Scale: As Noted
Date: 9/04/2007
CW5 Proj. No: 2006-447.tif

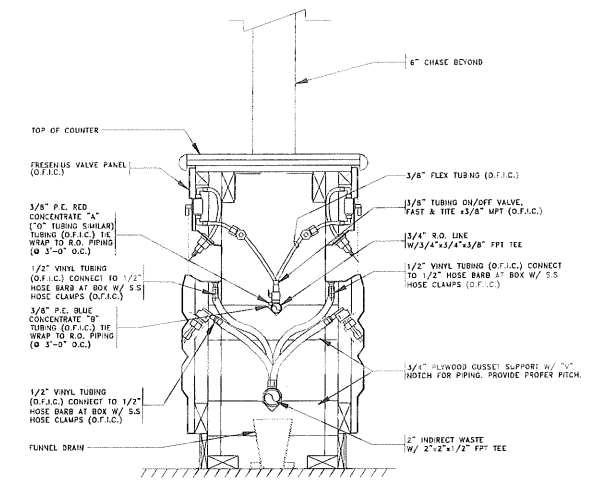
Drawing Number:
M3.1



PIPING IN DIALYSIS COUNTER SECTION
SCALE: N.T.S.

No.	Date	Revision
2-21-07		ELECT. MODIFICATIONS
4-18-03		ELECT. MODIFICATIONS

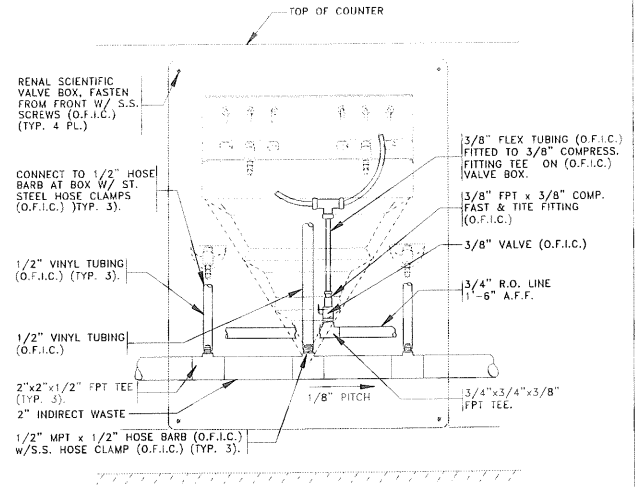
Fresenius Medical Care North America	Project FMC STANDARD DETAILS	Date JAN 2001
99 Hayden Avenue Lexington, MA 02420	Title PIPING IN DIALYSIS COUNTER SECTION W/ RENAL SCIENTIFIC VALVE BOX	Number P-25



PIPING IN DIALYSIS ISLAND SECTION
SCALE: N.T.S.

No.	Date	Revision
5-22-07		

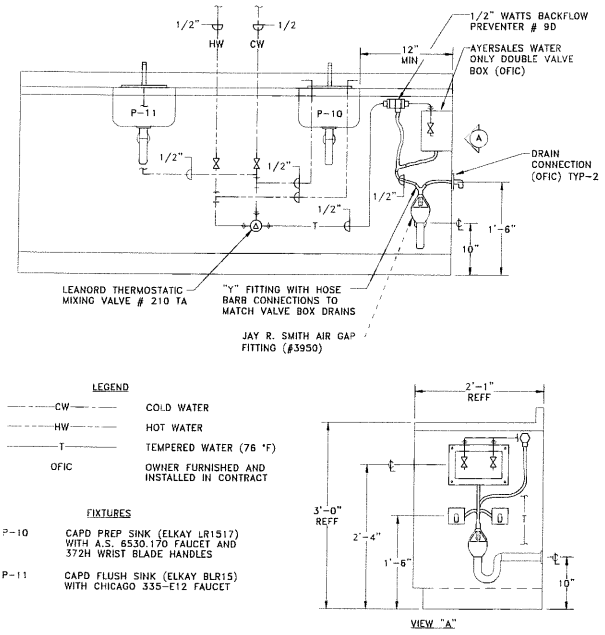
Fresenius Medical Care North America	Project FMC STANDARD DETAILS	Date 5-22-07
99 Hayden Avenue Lexington, MA 02420	Title PIPING IN DIALYSIS ISLAND SECTION W/ FRESENIUS STYLE VALVE PANEL	Number P-25A



PIPING IN DIALYSIS COUNTER ELEVATION
SCALE: N.T.S.

No.	Date	Revision
JAN 2001		

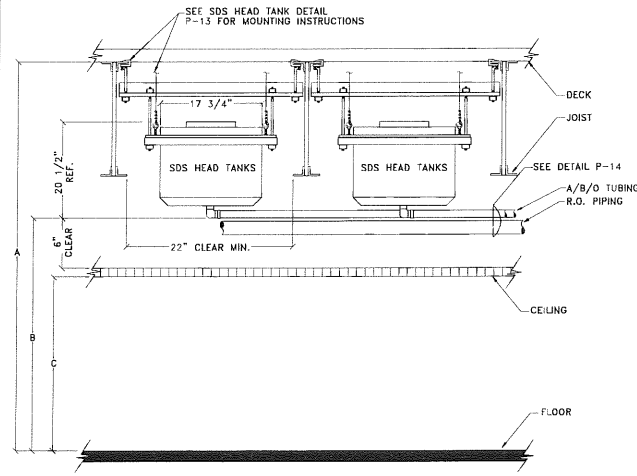
Fresenius Medical Care North America	Project FMC STANDARD DETAILS	Date JAN 2001
William A. Previdi AIA 95 Hayden Avenue Lexington, MA 02154	Title PIPING IN DIALYSIS COUNTER ELEVATION W/ RENAL SCIENTIFIC VALVE BOX	Number P-26



SINK BASIN PLUMBING DETAIL
NOT TO SCALE

No.	Date	Revision
9-30-2002		

Fresenius Medical Care North America	Project BMA STANDARDS	Date 9-30-2002
William A. Previdi AIA 95 Hayden Avenue Lexington, MA 02154	Title HOME HEMO PLUMBING DETAIL	Number P-29



NOTE HEAD TANKS SHALL BE LOCATED WITHIN A 10 FOOT RADIUS OF S.D.S. CONTROL UNIT
NOTE BOTTOM OF HEAD TANKS SHALL BE HIGHER THAN THE R.O. LOOPS HIGHEST POINT (NOT TO EXCEED 11'-0" A.F.F.)

A	B	C
FLOOR TO DECK MINIMUM HEIGHT	BOTTOM OF HEAD TANK R.O. A/B TUBING (MIN.) HEIGHT	FINISH CEILING HEIGHT (MAX.)
15 GAL. 10 GAL.		
10'-2"	9'-9"	8'-2"
10'-8"	10'-3"	8'-8"
11'-2"	10'-9"	9'-2"
11'-8"	11'-3"	9'-8"
12'-2"	11'-9"	10'-2"
12'-8"	12'-3"	10'-8"
13'-2"	12'-9"	(11'-0" MAX)

No.	Date	Revision
11-6-02		

Fresenius Medical Care North America	Project BMA STANDARD DETAILS	Date 11-6-02
William A. Previdi AIA 95 Hayden Avenue Lexington, MA 02154	Title SDS HEAD TANK/ FINISH CEILING HEIGHTS	Number P-31



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Scale:
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CWS Proj. No.: 2006-447.1b

Drawing Number:
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AIR DEVICE PERFORMANCE SCHEDULE										
TAG	PANEL SIZE (N)	NECK SIZE (N)	AIRFLOW (CFM)	SP LOSS (INWG.)	THROW (L)	THROW (S)	Nc	BASIS OF DESIGN - METALAIR		
								DUCT CONN (IN)	PATTERN	MODEL
(A)	24x24	15x15	625	0.05	-	-	25	SEE DWGS	SEE DWGS	5000D
(B)	24x24	9x9	205	0.05	-	-	25	SEE DWGS	SEE DWGS	5000D
(C)	24x24	6x6	85	0.05	-	-	25	SEE DWGS	SEE DWGS	5000D
(AA)	-	48x24	2500	0.05	-	-	30	SEE DWGS	1/2", 35"	RHD

GAS-FIRED WATER HEATER PERFORMANCE SCHEDULE									
TAG	STORAGE (GALS.)	INPUT (MBH)	RECOVERY 120°F RISE (GPH)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - A.O. SMITH "CYCLONE"		
				AMPS	WATTS	V/PH/Hz	SERVICE	FUEL	MODEL
GFWH-1	1000	1500	1710	6.2	-	120/1/60	PROCESS DHW	NATURAL GAS	BTH-150
GFWH-2	1000	1500	1710	6.2	-	120/1/60	PROCESS DHW	NATURAL GAS	BTH-150

PROVIDE WITH EXHAUST SOUND Baffles (MUFFLERS) AND ROOF CAPS.

PLUMBING FIXTURE CONNECTION SCHEDULE					
TAG	DESCRIPTION	SAN	VENT	CW	HW
P-3L	FREP SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-3HL	ADA FREP SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-4L	MEDICINE SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-10L	CAPD SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-11L	CAPD SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-15	BLOOD SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-18	FLOOR DRAIN	4"	2"	-	-

MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2".
P-3L & P-3HL SHALL HAVE ELECTRIC EYE FAUCETS, SEE DETAIL. P-15 REFER TO SPECIFICATIONS SECTION 15100 FOR MODEL NUMBERS.

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET.
SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION
CA	COMPRESSED AIR PIPING (CA)
C	CONDENSATE DRAIN PIPING (C)
CTR	COOLING TOWER RETURN PIPING (CTR)
CTS	COOLING TOWER SUPPLY PIPING (CTS)
CUR	CHILLED WATER RETURN PIPING (CUR)
CWS	CHILLED WATER SUPPLY PIPING (CWS)
FOR	FUEL OIL RETURN PIPING (FOR)
FOS	FUEL OIL SUPPLY PIPING (FOS)
G	GAS PIPING (G)
HWR	HOT WATER RETURN PIPING (HWR)
HWS	HOT WATER SUPPLY PIPING (HWS)
RL	REFRIGERANT LIQUID PIPING (RL)
RG	REFRIGERANT GAS PIPING (RG)
-----	SANITARY PIPING BELOW FLOOR (SAN)
-----	SANITARY PIPING ABOVE FLOOR (SAN)
-----	SANITARY VENT PIPING
RWL	RAINWATER LEADER ABOVE SLAB (RWL)
---	COLD WATER PIPING (CW)
---	HOT WATER PIPING (HW)
---	RECIRCULATED HOT WATER PIPING (RHW)
---	PIPE CAP
---	DIRECTION OF FLUID FLOW
---	ELBOW UP
---	ELBOW DOWN
---	PIPE TEE UP
---	PIPE TEE DOWN
---	PIPE REDUCER
---	PIPE WITH GUIDE
---	PIPE WITH ANCHOR
---	BUTTERFLY VALVE
---	OS & Y GATE VALVE

SYMBOL	DESCRIPTION
---	BACKFLOW PREVENTER (BFP)
---	CHECK VALVE
---	BALANCING VALVE (ADJUSTABLE)
---	AUTOMATIC FLOW CONTROL VALVE
---	RELIEF VALVE (RV)
---	BALL VALVE
---	3/4" BALL VALVE WITH 3/4" HOSE END
---	GATE VALVE
---	PRESSURE REDUCING VALVE
---	FUSIBLE VALVE
---	STRAINER W/BLOWDOWN BALL VALVE
---	2-WAY CONTROL VALVE
---	SOLENOID VALVE
---	3-WAY CONTROL VALVE
---	4-WAY CONTROL VALVE (TOP VIEW)
---	2 BUTTERFLY VALVES W/SINGLE ACTUATOR
---	BUTTERFLY VALVE W/ACTUATOR
---	TRIPLE-DUTY VALVE
---	UNION
---	PIPE FLANGE
---	PUMP WITH FLANGES
---	CARTRIDGE TYPE INLINE PUMP
---	VERTICAL INLINE PUMP
---	FLEXIBLE PIPE CONNECTION (FC)
---	PITCH DOWN
---	PETCOCK

SYMBOL	DESCRIPTION
---	PRESSURE GAGE WITH GAGE COCK
---	THERMOMETER IN WELL
---	WATER FLOW SWITCH
---	PRESSURE SWITCH OR SENSOR
---	EMERSION TEMPERATURE SENSOR
---	DUCT MOUNTED SMOKE DETECTOR
---	ROOM TEMPERATURE SENSOR
---	THERMOSTAT OR SENSOR ON WALL
---	TSTAT OR SENSOR W/ TAMPERPROOF GUARD
---	MANUAL AIR VENT
---	NOTE TAG (NUMBER)
---	AIR DEVICE TAG (LETTER) WITH CFM
---	ROOM NUMBER
---	TURNING VANES
---	DUCT W/MANUAL DAMPER
---	DUCT W/FLEXIBLE CONNECTION (FC)
---	LAGGED DUCT
---	DUCT W/ACOUSTIC LINING
---	DUCT W/SQUARE-TO-ROUND TRANSITION
---	FLEXIBLE DUCT
---	MOTOR OPERATED DAMPER
---	AIRFLOW OUT
---	AIRFLOW IN
---	DIAMETER OR FLAT OVAL
---	FIRE DAMPER
---	ROUND OR FLAT OVAL DUCT DOWN
---	SUPPLY DIFFUSER
---	RETURN GRILLE
---	STEAM TRAP
---	WATER HAMMER ARRESTOR

ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT
AD	ACCESS DOOR
AF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT TAG
AMS	AIRFLOW MONITORING STATION
AMPS	AMPERES
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AS	AIR SEPARATOR TAG
ATC	AUTOMATIC TEMPERATURE CONTROL
B	BOILER TAG
BD	BYPASS DAMPER TAG
BFP	BACKFLOW PREVENTER TAG
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CBD	COUNTER BALANCED DAMPER
CC	COOLING COIL TAG
CCF	CUBIC FEET PER MINUTE
CHLR	CHILLER TAG
CO	CLEANOUT
CONV	CONVECTOR TAG
CUH	CABINET UNIT HEATER TAG
CP	CIRCULATING PUMP TAG
CT	COOLING TOWER TAG
Cv	VALVE COEFFICIENT
CW	COLD WATER
CHWS/R	CHILLED WATER SUPPLY AND RETURN
DB	DRY BULB
dB RE	DECIBELS RELATIVE TO
DC	DOUBLE CHECK
DCA	DOUBLE CHECK ATMOSPHERIC
DEG F	DEGREES FAHRENHEIT
DIA	DIAMETER
DIW	DOWN IN WALL
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE

ABBREVIATION	DESCRIPTION
EDB	ENTERING DRY BULB
EDC	ELECTRIC DUCT COIL TAG
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN TAG
EFF	EFFICIENCY
EG	EXHAUST GRILLE TAG
ER	EXHAUST REGISTER TAG
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK TAG
EWB	ENTERING WET BULB
EWHR	ELECTRIC WATER HEATER TAG
EWT	ENTERING WATER TEMPERATURE
EXG	EXISTING
EXH	EXHAUST
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER
FD	FLOOR DRAIN TAG
FLA	FULL LOAD AMPS
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FFHB	FROST PROOF HOSE BIBB
FFM	FEET PER MINUTE
FS	FLOOR SINK TAG
FT	FEET
FTR	FINTUBE RADIATION TAG
GA	GAGE
GAL	GALLONS
GFH	GAS FIRED WATER HEATER TAG
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GUH	GAS UNIT HEATER TAG
HC	HEATING COIL TAG
HP	HORSEPOWER
HRV	HEAT RECOVERY VENTILATOR TAG
HW	HOT WATER
HWS/R	HOT WATER SUPPLY AND RETURN

ABBREVIATION	DESCRIPTION
I-B-R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS
IRH	INDIRECT FIRED WATER HEATER TAG
IN	INCHES
IV	INTAKE VENT TAG
L	LOUVER TAG
LAT	LEAVING AIR TEMPERATURE
LB	POUNDS
LD	LINEAR DIFFUSER TAG
LTHWS/R	LOW TEMPERATURE HOT WATER
LRA	LOCKED ROTOR AMPS
LWCO	LOW WATER CUTOFF
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSANDS OF BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NC	NOISE CRITERION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
OFWH	OIL FIRED WATER HEATER TAG
OPD	OVERCURRENT PROTECTIVE DEVICE
P	PLUMBING FIXTURE TAG
PENETN	PENETRATION
FF	PADDLE FAN TAG
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PVC	POLYVINYL CHLORIDE (PIPE)
RA	RETURN AIR
RD	ROOF DRAIN
RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS
RFM	RADIANT FLOOR MANIFOLD TAG
RG	RETURN GRILLE TAG
RHW	RECIRCULATED HOT WATER

ABBREVIATION	DESCRIPTION
RLA	RUNNING LOAD AMPS
RFM	REVOLUTIONS PER MINUTE
RP5	REVOLUTIONS PER SECOND
RPZ	REDUCED PRESSURE ZONE
RR	RETURN REGISTER TAG
RTU	ROOM TEMPERATURE SENSOR
RV	RELIEF VALVE
RUL	RAINWATER LEADER
SA	SUPPLY AIR
SAN	SANITARY (DRAIN & WASTE)
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SG	SUPPLY GRILLE TAG
SP	STATIC PRESSURE
SP	SUMP PUMP TAG
SR	SUPPLY REGISTER TAG
SQFT	SQUARE FEET
AT	TEMPERATURE DIFFERENTIAL
TEMP	TEMPERATURE
TC	TEMPERATURE CONTROL PANEL
TMV	THERMOSTATIC MIXING VALVE TAG
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER TAG
VAV	VARIABLE AIR VOLUME BOX TAG
VB	VACUUM BREAKER
VFD	VARIABLE FREQUENCY INVERTER DRIVE
VTR	VENT THRU ROOF
V/PH/Hz	VOLTS/PHASES/HERTZ
WBT	WET BULB
WCO	WALL CLEANOUT
WG	WATER GAGE
WPD	WATER PRESSURE DROP
WSA	WIRE SIZING AMPS
WTD	WATER TEMPERATURE DROP
W	WITH
ZD	ZONE DAMPER TAG

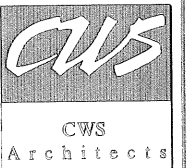
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REVISIONS	
Revision	Description

Drawing Title: MECHANICAL LEGEND AND SCHEDULES	Date: 9/04/2007
Scale: None	Drawn By: CWS Proj. No. 2006-447 (JH)

Drawing Number:
M3.4



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REVISIONS:	
Description	Date:

Drawing Title:	Scale:	Date:
ELECTRICAL REMOVALS PLAN	1/4"=1'-0"	9/04/2007
	CWS Proj. No:	2006 447 fip

Drawing Number:
DE1.1

DEMOLITION NOTES

- 1 EXISTING 2x4 LIGHTS TO BE REMOVED AND STORED FOR RE-INSTALLATION.

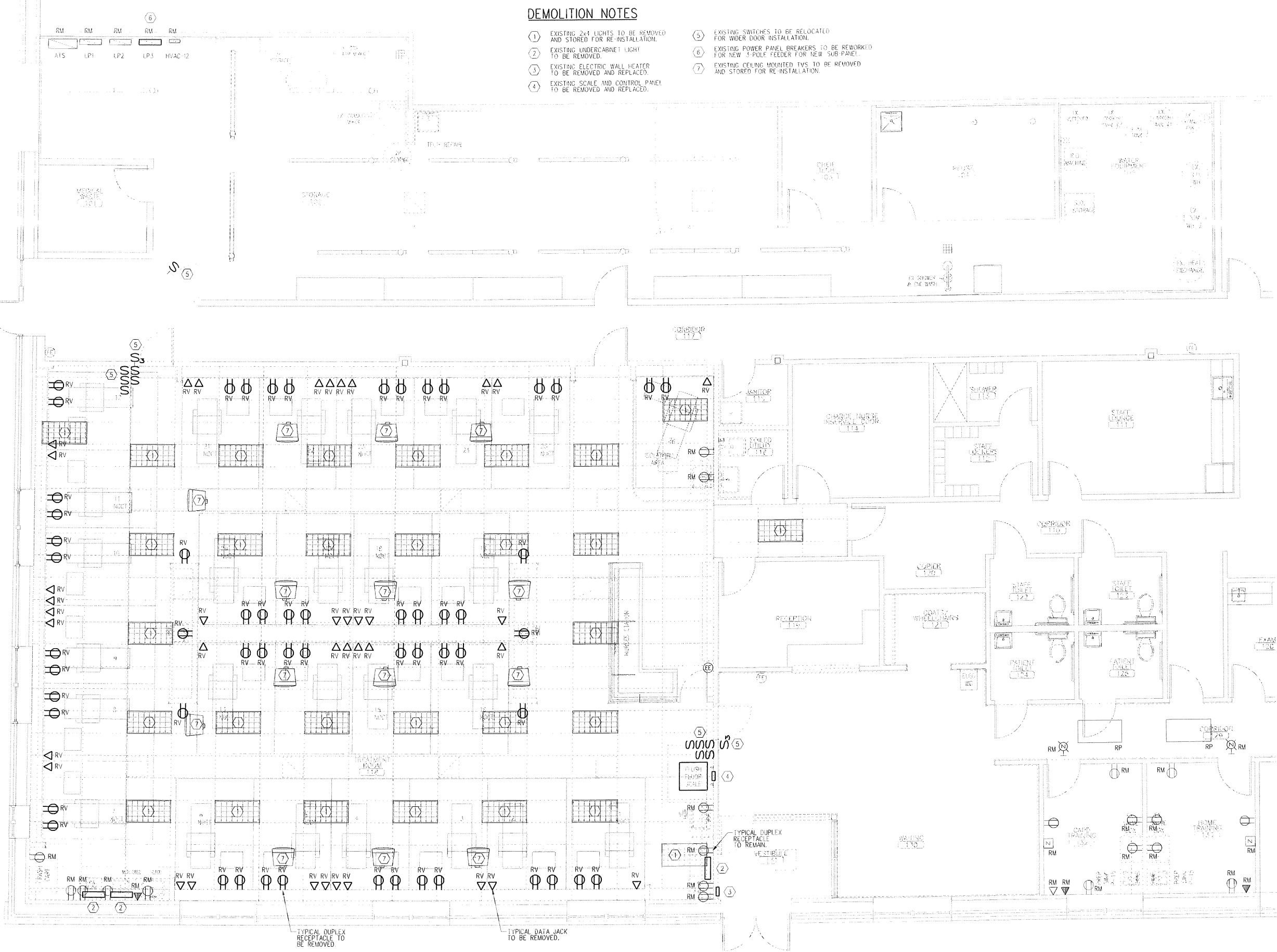
2 EXISTING UNDERCABINET LIGHT TO BE REMOVED.

3 EXISTING ELECTRIC WALL HEATER TO BE REMOVED AND REPLACED.

4 EXISTING SCALE AND CONTROL PANEL TO BE REMOVED AND REPLACED.
- 5 EXISTING SWITCHES TO BE RELOCATED FOR WIDER DOOR INSTALLATION.

6 EXISTING POWER PANEL BREAKERS TO BE REWORKED FOR NEW 3-POLE FEEDER FOR NEW SUB-PANEL.

7 EXISTING CEILING MOUNTED TVS TO BE REMOVED AND STORED FOR RE-INSTALLATION.



THE RENOVATIONS TO
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REVISIONS:

Description:

Drawing Title:
ELECTRICAL PLAN

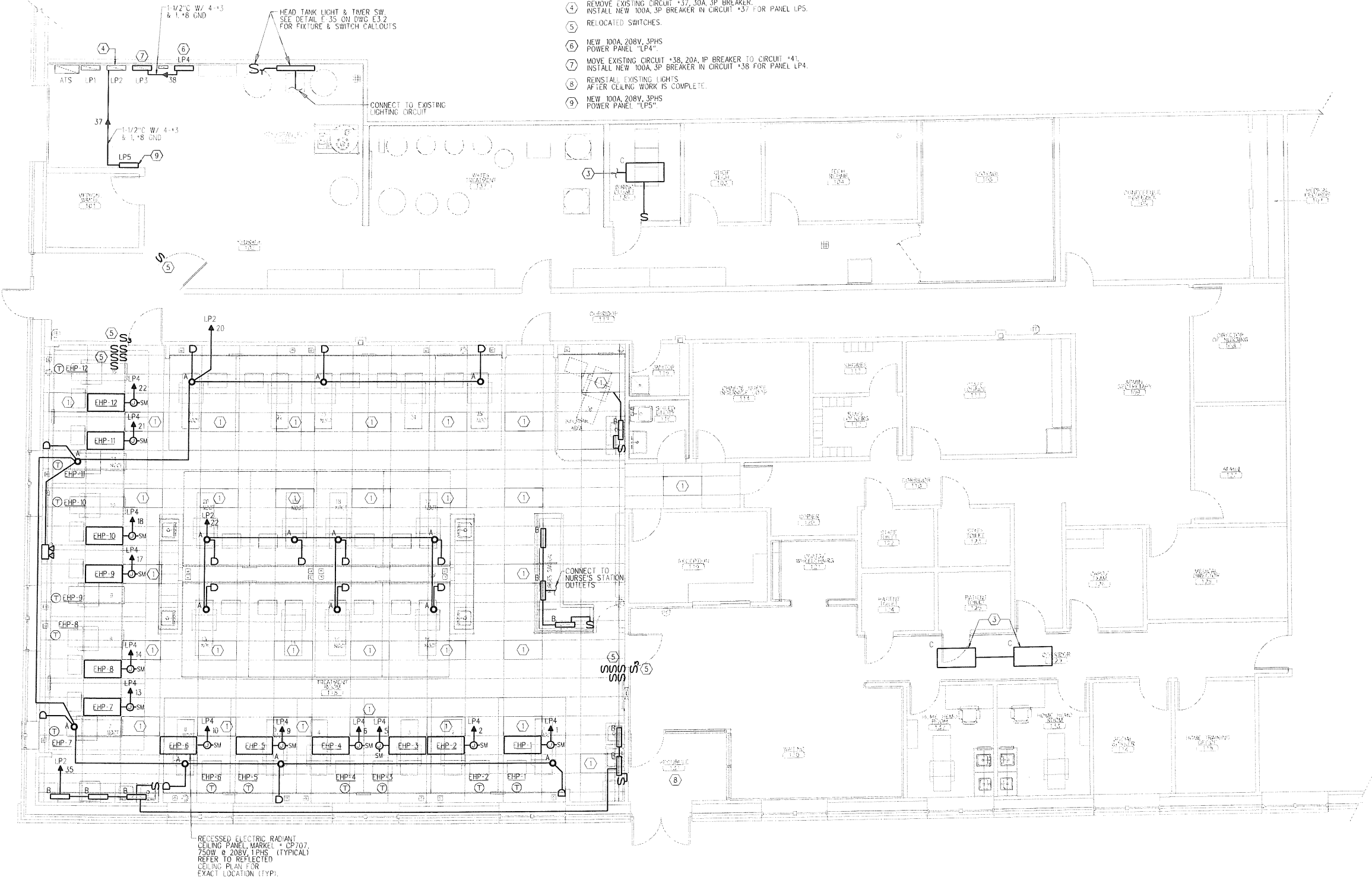
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Date: 9/04/2007
CWS Proj. No.: 2006.447.fpt

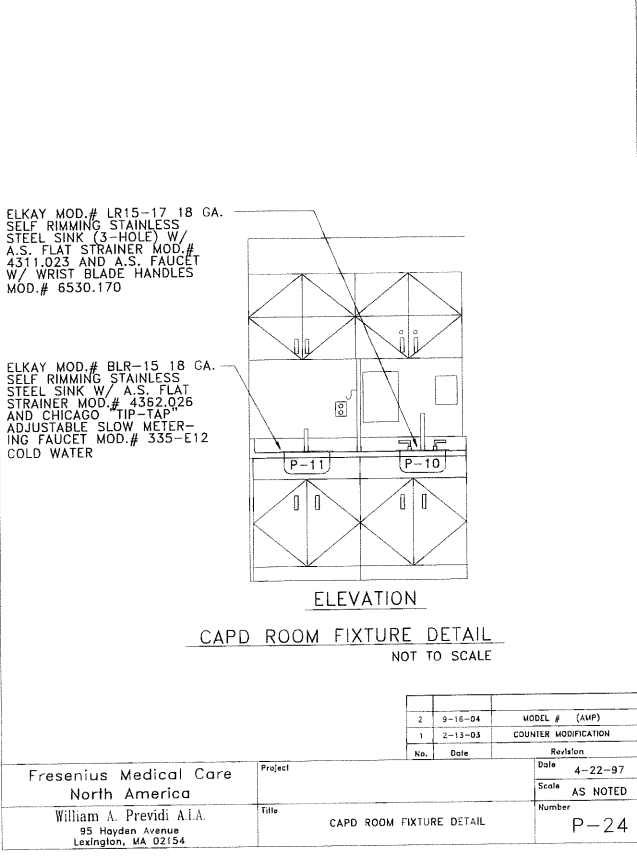
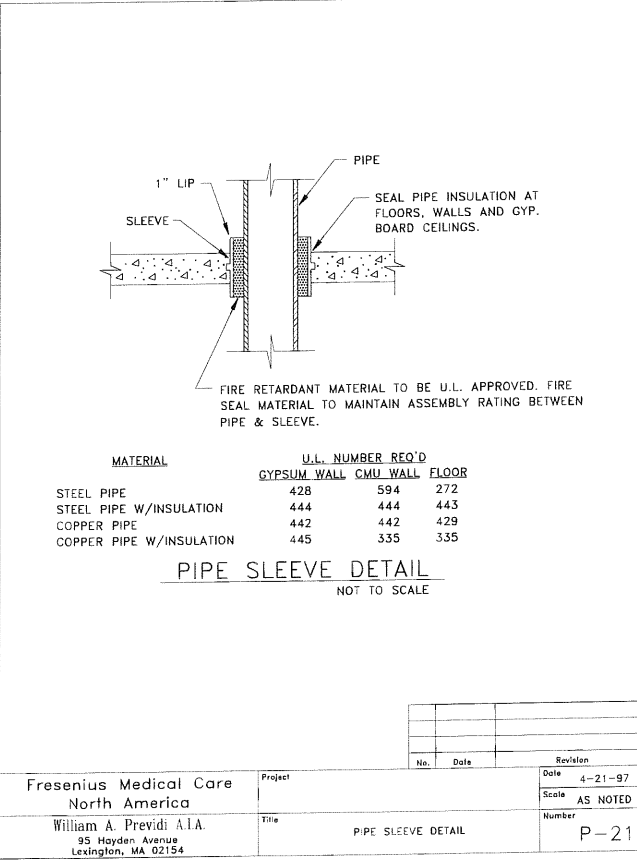
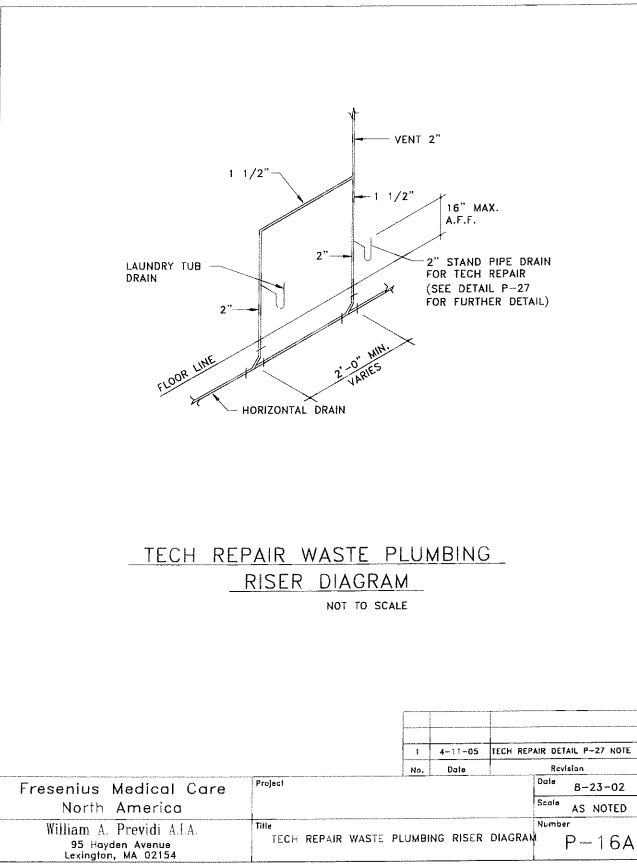
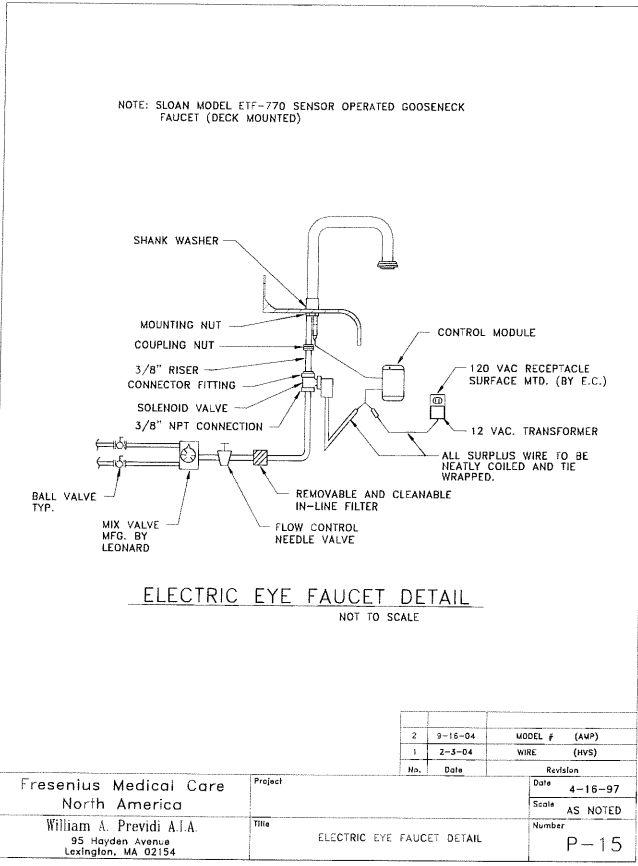
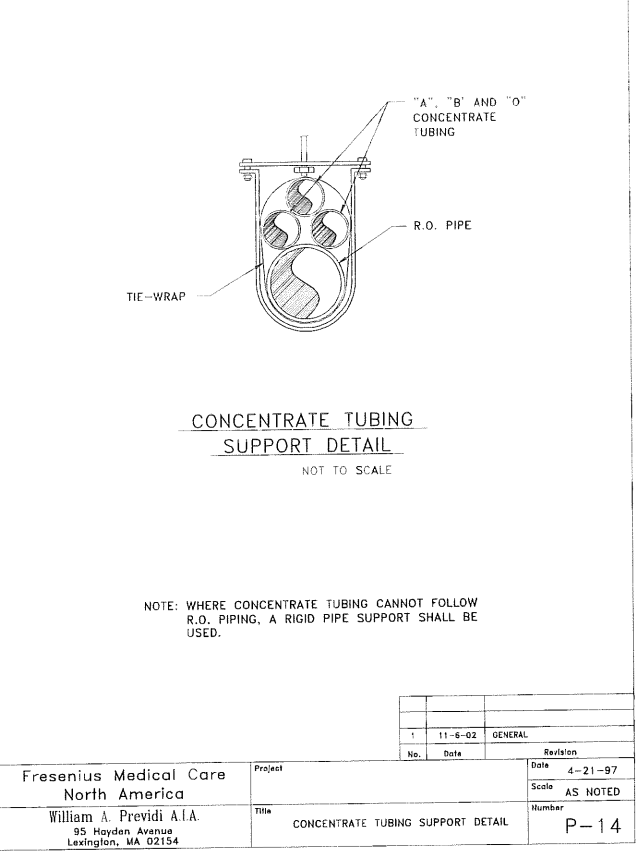
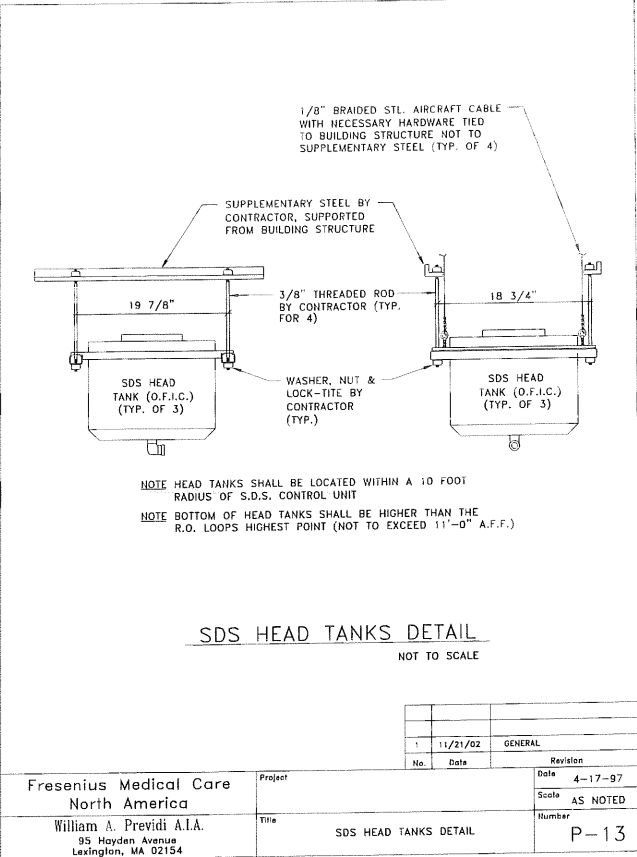
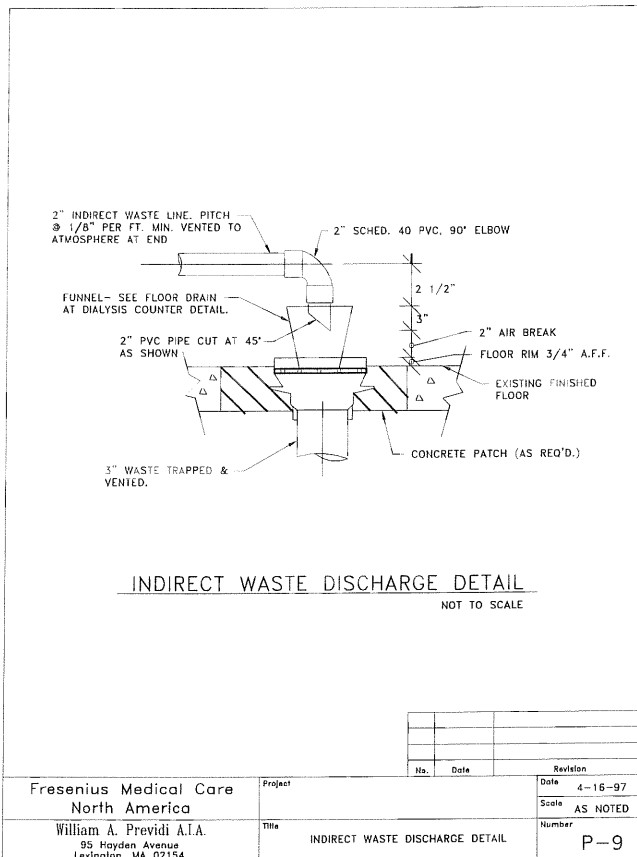
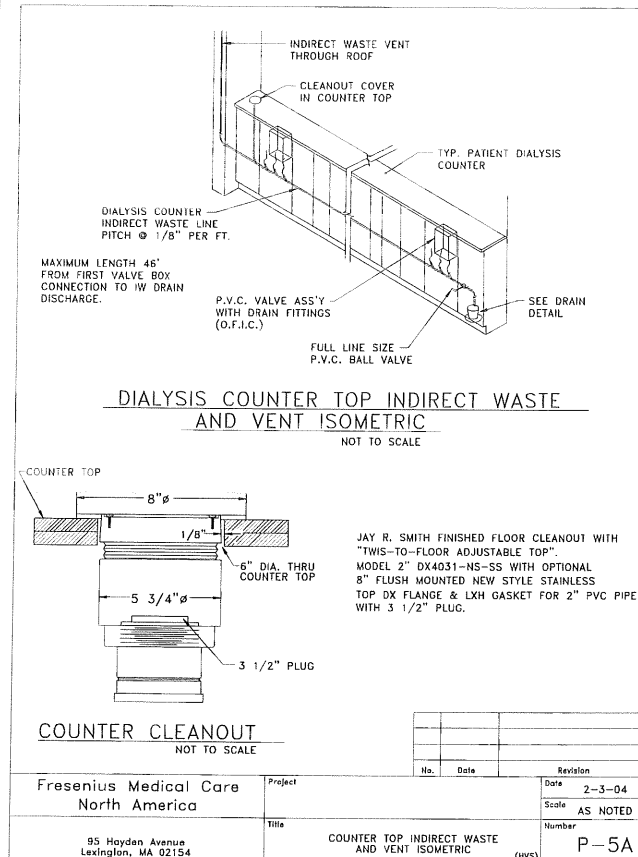
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E1.1

ELECTRICAL NOTES

- REINSTALL EXISTING 2x4 LIGHTS
AFTER CEILING WORK IS COMPLETE.
- NOT USED
- CONNECT TO EXISTING LIGHTING CIRCUIT
- REMOVE EXISTING CIRCUIT #37, 30A, 3P BREAKER.
INSTALL NEW 100A, 3P BREAKER IN CIRCUIT #37 FOR PANEL LP5.
- RELOCATED SWITCHES.
- NEW 100A, 208V, 3PHS
POWER PANEL "LP4"
- MOVE EXISTING CIRCUIT #38, 20A, 1P BREAKER TO CIRCUIT #41.
INSTALL NEW 100A, 3P BREAKER IN CIRCUIT #38 FOR PANEL LP4.
- REINSTALL EXISTING LIGHTS
AFTER CEILING WORK IS COMPLETE.
- NEW 100A, 208V, 3PHS
POWER PANEL "LP5"





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THE RENOVATIONS TO
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PORTLAND, MAINE #190
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PORTLAND, MAINE 04101

FRESENIUS
MEDICAL SERVICES
DIALYSIS NORTH AMERICA

Owner:

1256 MAIN STREET
WALTHAM, MA 02451
(781) 891-0829
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REVISIONS:

No.	Date	Description

Drawing Title:
MECHANICAL
DETAILS

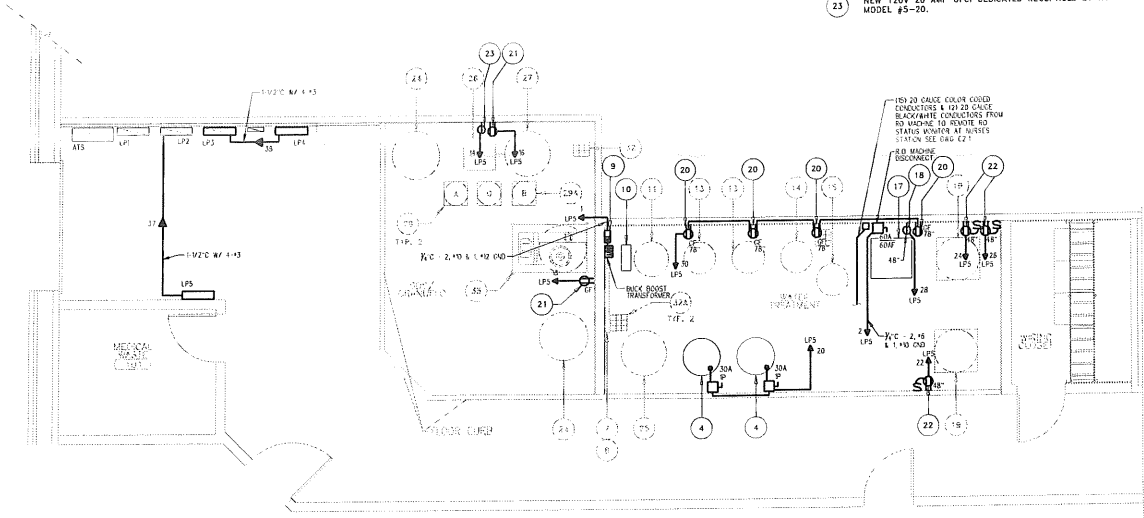
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9/04/2007
Date:
CWS Proj. No.: 2006-447 (tpt)

Drawing Number:
M3.2

LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMPS QUANTITY & TYPE	REMARKS
A	PORTFOLIO *HdBCP-6700-BB-TRM6p-H277	(1) 200W MAX A21	RECESSED IN GRID CEILING
B	LEGION LIGHTING *311-13-ACP-HES	(1) F31T5	UNDERCABINET LIGHT
C	METALUX *2GR8-332A-120-TEB81	(3) F32T8/SP35	1- 3 LAMP BALLAST ELECTRONIC LHD 10%

- 4 NEW WATER HEATER (FOR PROCESS ONLY) (BY P.C.)
- 9 NEW 230V ELECTRICAL DISCONNECT SWITCH RATED AT 20 AMPS FOR BOOSTER PUMP. (BY E.C.)
- 10 NEW PROCESS WATER BOOSTER PUMP (20 GPM @ 125 FT. HEAD) MFD. BY IELC, CHANGER CAT# 2P2015, 4-1/4" INLET, 1 HP, 3450 RPM, (BY P.C.) WITH (O.F.I.C.) 3-POLE LOW PRESSURE CUT OFF SWITCH SQUARE D MODEL 3013 F5C-2224M, CHANGER CAT# 2P2015, (230V-1PH-1). IF BUILDING IS PROVIDED WITH 230V SERVICE, A BUCK-BOOST TRANSFORMER SHALL BE USED (BY E.C.)
- 17 NEW OSMONICS Z-12000 R.O. MACHINE (O.F.I.) WITH 75% RECOVERY
- 18 NEW ELECTRICAL POWER RECEPTACLE FOR R.O. MACHINE NEMA TYPE L15-30R (FEMALE) 4"-0" A.F.F. (BY E.C.)
- 20 NEW 120 VOLT 20 AMP GFCI DUPLEX RECEPTACLE 6"-8" A.F.F. 4"-0" ON CENTER, FROM BOOSTER PUMP TO R.O. MACHINE (BY E.C.)
- 21 NEW 120 VOLT 20 AMP GFCI DEDICATED DUPLEX RECEPTACLE
- 22 NEW 120 VOLT 20 AMP DEDICATED SWITCHED TWIST-LOCK RECEPTACLE MFR. BY BRYANT MODEL # 70320FR WITH WR104-CV FOR DISTRIBUTION PUMP, 4"-0" A.F.F. (BY E.C.)
- 23 NEW 120V 20 AMP GFCI DEDICATED RECEPTACLE BY HUBBELL MODEL #5-20.

- SYMBOL LEGEND**
- NEW PANELBOARD - SEE PANELBOARD SCHEDULE
 - ELECTRIC MOTOR DRIVEN EQUIPMENT SHOWN UNLESS DISCONNECT SWITCH - SIZE & RATINGS AS NOTED
 - MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE MOUNTED AT 18" AFF
 - JUNCTION BOX
 - EXIT LIGHT FIXTURE UN-SWITCHED
 - EMERGENCY BATTERY UNIT - WITH TWO HEADS - MOUNT 6" 8" AFF
 - CUR-LITE *L25 SWITCHES FOR 90 MINUTES BY
 - RACEWAY & WIRING RUN CONCEALED IN WALLS/CEILING
 - RACEWAY & WIRING RUN CONCEALED UNDER FLOOR
 - HOME RUN TO PANEL, JOCKS INDICATE QUANTITY OF CIRCUITS, NUMERALS INDICATE CIRCUIT NUMBERS
 - FLEXIBLE STEEL CONDUIT RHP TO RECESSED FLUORESCENT FIXTURE
 - CONDUIT TURNING UP
 - CONDUIT TURNING DOWN
 - COMBINATION CIRCUIT BREAKER & MOTORIZED MOTOR STARTER - NEMA SIZE 1 1/4 AMPS CONTACTS 200 HAND OFF-AUTO SWITCH WIRING POWER IN PLUG LIGHT
 - SAFETY POLE SWITCH 120 VOLT, 20 AMP, SPEC. GRADE, GROUNDING TYPE MOUNT 48" AFF, 3-1/2" WIDE, 4-1/2" DEEP, 1/2" PLATE, WEATHERPROOF
 - FLUOR CARB LITERS INDICATES FUTURE OR CONTROLLED LOAD
 - FLUOR CARB LITERS INDICATES FUTURE OR CONTROLLED LOAD
 - SPECIAL PURPOSE RECEPTACLE - NEMA CONFIGURATION AS NOTED
 - DUPLEX RECEPTACLE - HOSPITAL GRADE, ISOLATED GROUND - 20A, 120V, GROUNDING TYPE - FLUSH MOUNTED 42" AFF, UNLESS OTHERWISE NOTED
 - 1" - WORK MAXIMUM 2 PER CIRCUIT
 - 2" - WORK MAXIMUM 4 PER CIRCUIT
 - 3" - WORK MAXIMUM 6 PER CIRCUIT
 - 4" - WORK MAXIMUM 8 PER CIRCUIT
 - 5" - WORK MAXIMUM 10 PER CIRCUIT
 - 6" - WORK MAXIMUM 12 PER CIRCUIT
 - 7" - WORK MAXIMUM 14 PER CIRCUIT
 - 8" - WORK MAXIMUM 16 PER CIRCUIT
 - 9" - WORK MAXIMUM 18 PER CIRCUIT
 - 10" - WORK MAXIMUM 20 PER CIRCUIT
 - 11" - WORK MAXIMUM 22 PER CIRCUIT
 - 12" - WORK MAXIMUM 24 PER CIRCUIT
 - 13" - WORK MAXIMUM 26 PER CIRCUIT
 - 14" - WORK MAXIMUM 28 PER CIRCUIT
 - 15" - WORK MAXIMUM 30 PER CIRCUIT
 - 16" - WORK MAXIMUM 32 PER CIRCUIT
 - 17" - WORK MAXIMUM 34 PER CIRCUIT
 - 18" - WORK MAXIMUM 36 PER CIRCUIT
 - 19" - WORK MAXIMUM 38 PER CIRCUIT
 - 20" - WORK MAXIMUM 40 PER CIRCUIT
 - 21" - WORK MAXIMUM 42 PER CIRCUIT
 - 22" - WORK MAXIMUM 44 PER CIRCUIT
 - 23" - WORK MAXIMUM 46 PER CIRCUIT
 - 24" - WORK MAXIMUM 48 PER CIRCUIT
 - 25" - WORK MAXIMUM 50 PER CIRCUIT
 - 26" - WORK MAXIMUM 52 PER CIRCUIT
 - 27" - WORK MAXIMUM 54 PER CIRCUIT
 - 28" - WORK MAXIMUM 56 PER CIRCUIT
 - 29" - WORK MAXIMUM 58 PER CIRCUIT
 - 30" - WORK MAXIMUM 60 PER CIRCUIT
 - 31" - WORK MAXIMUM 62 PER CIRCUIT
 - 32" - WORK MAXIMUM 64 PER CIRCUIT
 - 33" - WORK MAXIMUM 66 PER CIRCUIT
 - 34" - WORK MAXIMUM 68 PER CIRCUIT
 - 35" - WORK MAXIMUM 70 PER CIRCUIT
 - 36" - WORK MAXIMUM 72 PER CIRCUIT
 - 37" - WORK MAXIMUM 74 PER CIRCUIT
 - 38" - WORK MAXIMUM 76 PER CIRCUIT
 - 39" - WORK MAXIMUM 78 PER CIRCUIT
 - 40" - WORK MAXIMUM 80 PER CIRCUIT
 - 41" - WORK MAXIMUM 82 PER CIRCUIT
 - 42" - WORK MAXIMUM 84 PER CIRCUIT
 - 43" - WORK MAXIMUM 86 PER CIRCUIT
 - 44" - WORK MAXIMUM 88 PER CIRCUIT
 - 45" - WORK MAXIMUM 90 PER CIRCUIT
 - 46" - WORK MAXIMUM 92 PER CIRCUIT
 - 47" - WORK MAXIMUM 94 PER CIRCUIT
 - 48" - WORK MAXIMUM 96 PER CIRCUIT
 - 49" - WORK MAXIMUM 98 PER CIRCUIT
 - 50" - WORK MAXIMUM 100 PER CIRCUIT

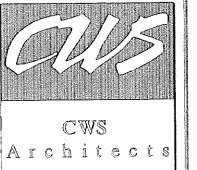


PROJECT: SOUTHERN MAINE DIALYSIS		THREE PHASE PANELBOARD SCHEDULE		PANEL DESIGNATION: LP4 (NEW PANEL)	
MAIN LUGS: 100A		VOLTS: 120/208		PHASE: 3	
		WIRE: 4			
KVA LOAD		A	B	C	KVA LOAD
.38	ELECTRIC HEAT PANEL, EHP-1	1 2P		2P 2	ELECTRIC HEAT PANEL, EHP-2 .38
.38	ELECTRIC HEAT PANEL, EHP-3	3 2P		2P 5	ELECTRIC HEAT PANEL, EHP-4 .38
.38	ELECTRIC HEAT PANEL, EHP-5	5 2P		2P 9	ELECTRIC HEAT PANEL, EHP-6 .38
.38	ELECTRIC HEAT PANEL, EHP-7	7 2P		2P 13	ELECTRIC HEAT PANEL, EHP-8 .38
.38	ELECTRIC HEAT PANEL, EHP-9	9 2P		2P 17	ELECTRIC HEAT PANEL, EHP-10 .38
.38	ELECTRIC HEAT PANEL, EHP-11	11 2P		2P 21	ELECTRIC HEAT PANEL, EHP-12 .38
1.0	ELECTRIC SCALE	25 2P		2P 25	SPACE
	SPACE	27 2P		2P 29	SPACE
	SPACE	29 2P		2P 33	SPACE
TOTAL CONN. LOAD		10.1 KVA			

PROJECT: SOUTHERN MAINE DIALYSIS		THREE PHASE PANELBOARD SCHEDULE		PANEL DESIGNATION: LP5 (NEW PANEL)	
MAIN LUGS: 100A		VOLTS: 120/208		PHASE: 3	
				WIRE: 4	
KVA LOAD		A	B	C	KVA LOAD
3.0	NEW LOW PRESSURE CUT OFF SWITCH	1 2P		2 2P	NEW R.O. MACHINE
3.0		3P		6P	
1.5	MIXING VALVE POWER	5 IP 20		6 IP 20	OUTLETS - RM 118
1.0	OUTLETS - RM 118	7 IP 20		8 IP 20	OUTLET - RM 118
.50	OUTLET - RM 118	9 IP 20		10 IP 20	OUTLET - RM 118
.50	OUTLET - RM 118	11 IP 20		12 IP 20	OUTLET - RM 118
1.0	OUTLETS - RM 118	13 IP 20		14 IP 20	OUTLET @ SDS
.50	OUTLET - RM 118	15 IP 20		16 IP 20	OUTLET @ SDS
.50	OUTLET - RM 118	17 IP 20		18 IP 20	OUTLET @ CANUFLO
1.0	OUTLETS - RM 118	19 IP 20		20 IP 20	PROCESS WATER HEATERS
.50	OUTLET - RM 118	21 IP 20		22 IP 20	SWITCHED OUTLET @ R.O. STORAGE TANK
.50	OUTLET - RM 118	23 IP 20		24 IP 20	SWITCHED OUTLET @ R.O. STORAGE TANK
1.0	OUTLETS - RM 118	25 IP 20		26 IP 20	SWITCHED OUTLET @ R.O. STORAGE TANK
1.0	OUTLETS - RM 118	27 IP 20		28 IP 20	OUTLET @ RO MACHINE
1.0	PROTON PRINTER	29 IP 20		30 IP 20	OUTLETS - WATER TREATMENT
TOTAL CONN. LOAD		38.4 KVA			

PROJECT: SOUTHERN MAINE DIALYSIS		THREE PHASE PANELBOARD SCHEDULE		PANEL DESIGNATION: LP3 (EXISTING TO REMAIN)	
MAIN BRKR: 225A		VOLTS: 120/208		PHASE: 3	
				WIRE: 4	
KVA LOAD		A	B		KVA LOAD
50	OUTLET - RM 118	1 ^{1P} ₁₋₂	2 ^{2P} ₁₋₂	2 OUTLET - RM 118	50
1.0	OUTLETS - RM 118	3 ^{1P} ₁₋₂	4 ^{2P} ₁₋₂	4 OUTLETS - RM 118	1.2
.50	OUTLET - RM 118	5 ^{1P} ₁₋₂	6 ^{2P} ₁₋₂	6 OUTLET - RM 118	.50
1.0	OUTLETS - RM 118	7 ^{1P} ₁₋₂	8 ^{2P} ₁₋₂	8 OUTLETS - RM 118	1.0
.50	OUTLET - RM 118	9 ^{1P} ₁₋₂	10 ^{2P} ₁₋₂	10 OUTLET - RM 118	.50
.50	OUTLET - RM 118	11 ^{1P} ₁₋₂	12 ^{2P} ₁₋₂	12 OUTLETS - RM 118	1.0
.50	OUTLET - RM 118	13 ^{1P} ₁₋₂	14 ^{2P} ₁₋₂	14 OUTLET - RM 118	.50
.50	OUTLET - RM 118	15 ^{1P} ₁₋₂	16 ^{2P} ₁₋₂	ISOLATION RHP	
1.2	OUTLETS - RM 118	17 ^{1P} ₁₋₂	18 ^{2P} ₁₋₂	18 OUTLET - RM 118	.50
.50	OUTLET - RM 118	19 ^{1P} ₁₋₂	20 ^{2P} ₁₋₂	20 OUTLETS - RM 118	1.0
.50	OUTLET - RM 118	21 ^{1P} ₁₋₂	22 ^{2P} ₁₋₂	22 OUTLET - RM 118	.50
.50	OUTLETS - RM 118	23 ^{1P} ₁₋₂	24 ^{2P} ₁₋₂	24 OUTLET - RM 118	.50
1.2	OUTLETS - RM 118	25 ^{1P} ₁₋₂	26 ^{2P} ₁₋₂	26 OUTLET - RM 118	.50
.50	OUTLET - RM 118	27 ^{1P} ₁₋₂	28 ^{2P} ₁₋₂	28 OUTLETS - RM 118	1.0
	RER. PUMP WATER VALVES	29 ^{1P} ₁₋₂	30 ^{2P} ₁₋₂	30 OUTLET - RM 118	.50
.50	OUTLET - RM 118	31 ^{1P} ₁₋₂	32 ^{2P} ₁₋₂	32 OUTLET - RM 118	.50
1.0	OUTLETS - RM 118	33 ^{1P} ₁₋₂	34 ^{2P} ₁₋₂	34 OUTLETS - RM 118	.80
	TEL. EQUIPMENT	35 ^{1P} ₁₋₂	36 ^{2P} ₁₋₂	36 OUTLETS - RM 118	.80
	UPS GENERATOR	37 ^{1P} ₁₋₂	38	PANEL LP4	3.4
	WATER HEATER	39 ^{1P} ₁₋₂	3P		3.4
	GENERATOR BLOCK HEATER	41 ^{1P} ₁₋₂	100		3.4
TOTAL CONN. LOAD _____		TOTAL DEM. LOAD _____			
X PROVIDE NEW BREAKER					

PROJECT: SOUTHERN MAINE DIALYSIS			
THREE PHASE PANELBOARD SCHEDULE			
PANEL DESIGNATION: LP2 (EXISTING TO REMAIN)			
MAIN BREAK: 225A VOLTS: 120/208 PHASE: 3 WIRE: 4			
KVA LOAD			KVA LOAD
EMERGENCY	1P	OUTLET - RM 118	50
LIGHTING RM 118	3P	OUTLET - RM 118	1.2
LIGHTING RM 118	5P	OUTLET - RM 118	.50
LIGHTING RM 118	7P	OUTLET - RM 118	1.0
LIGHTING RM 118	9P	OUTLET - RM 118	.50
REC. OUT RM 118	11P	OUTLETS - RM 118	1.0
REC. OUT RM 118	13P	OUTLET - RM 118	.50
REC. OUT RM 118	15P	ISOLATION RHP	
REC. OUT RM 118	17P	OUTLET - RM 118	50
REC. OUT RM 118	19P	OUTLETS - RM 118	1.0
REC. OUT RM 118	21P	OUTLET - RM 118	.50
REC. OUT RM 118	23P	OUTLET - RM 118	.50
REC. OUT RM 118	25P	OUTLETS - RM 118	1.0
OUTLETS - TREATMENT RM	27P	OUTLET - RM 118	.50
OUTLET 132	29P	OUTLET - RM 118	.50
OUTLET - 133	31P	OUTLET - RM 118	.50
OUTLETS - 132 & 133	33P	OUTLET - RM 118	.80
LIGHTING - TREATMENT RM	35P	OUTLET - RM 118	.80
PANEL LP5	37P	OUTLET - RM 118	3.4
	39P	OUTLET - RM 118	3.4
	41P	OUTLET - RM 118	3.4
TOTAL CONN. LOAD TOTAL DEM. LOAD			
X PROVIDE NEW BREAKER			



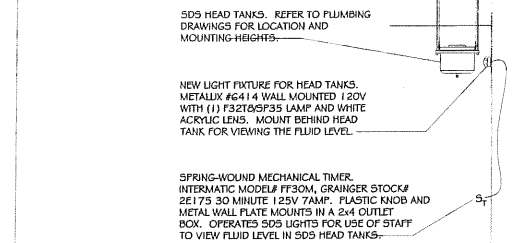
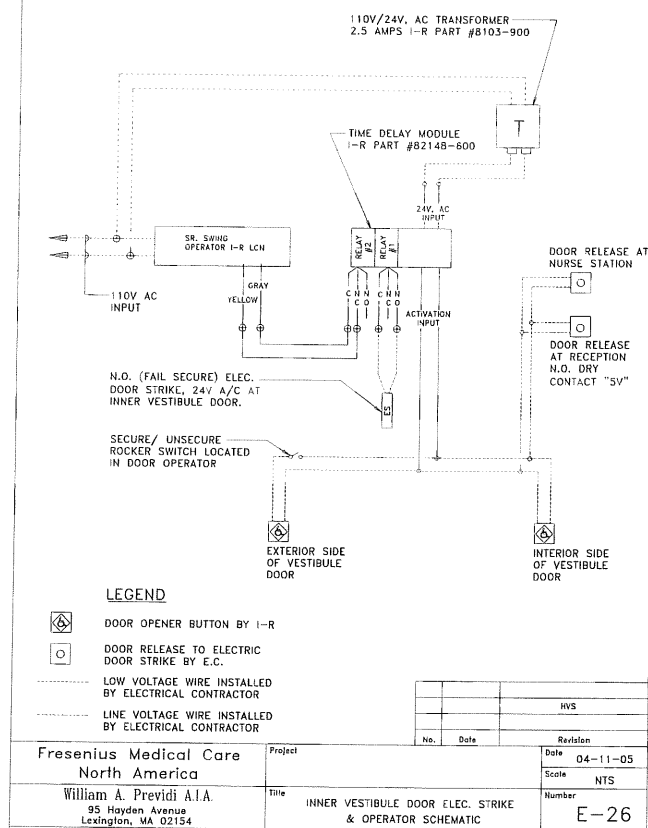
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REVISIONS:	
	Date:

E3.1



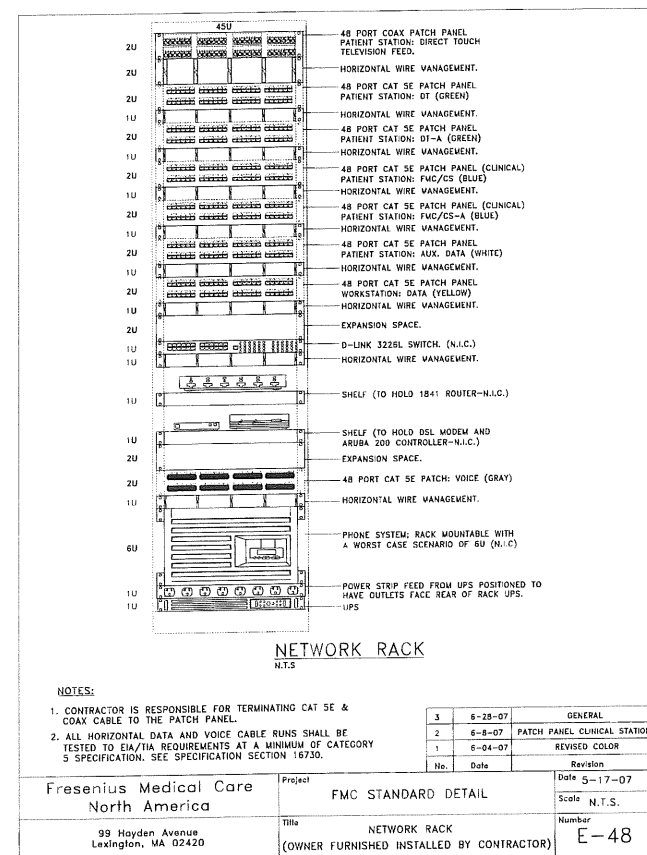
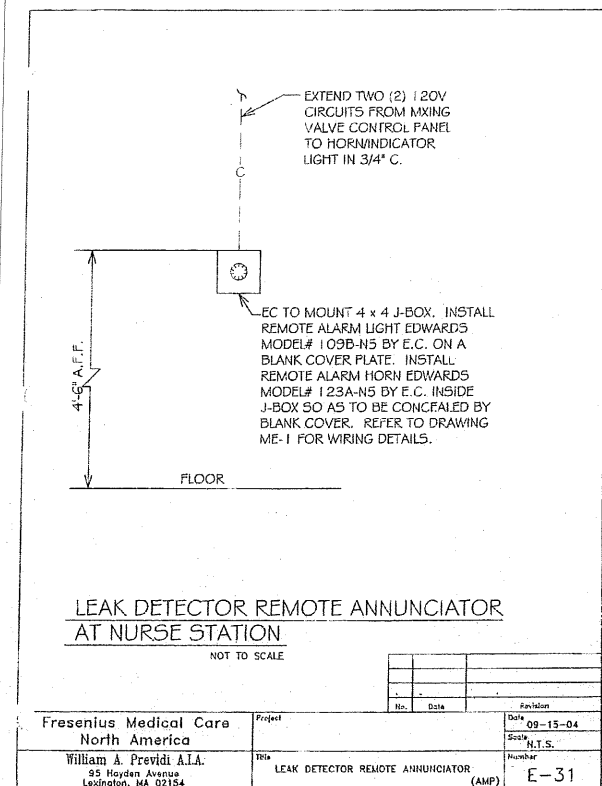
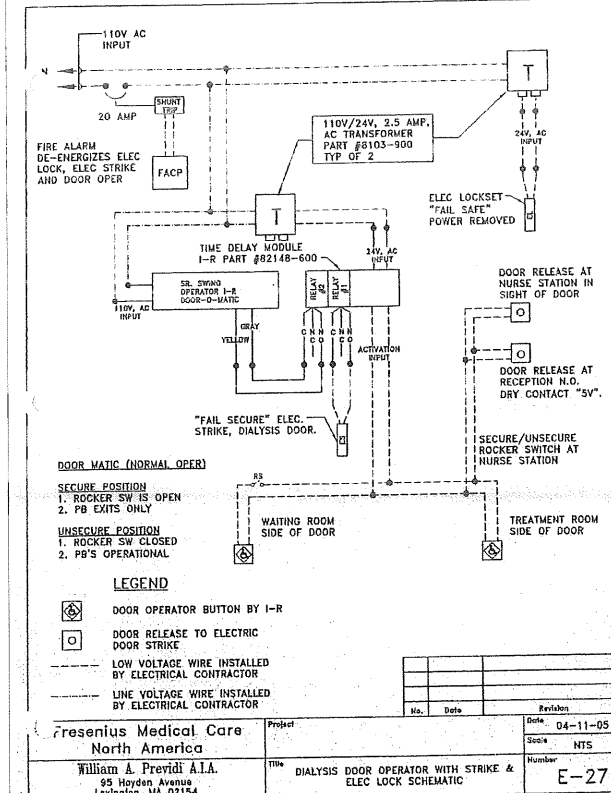
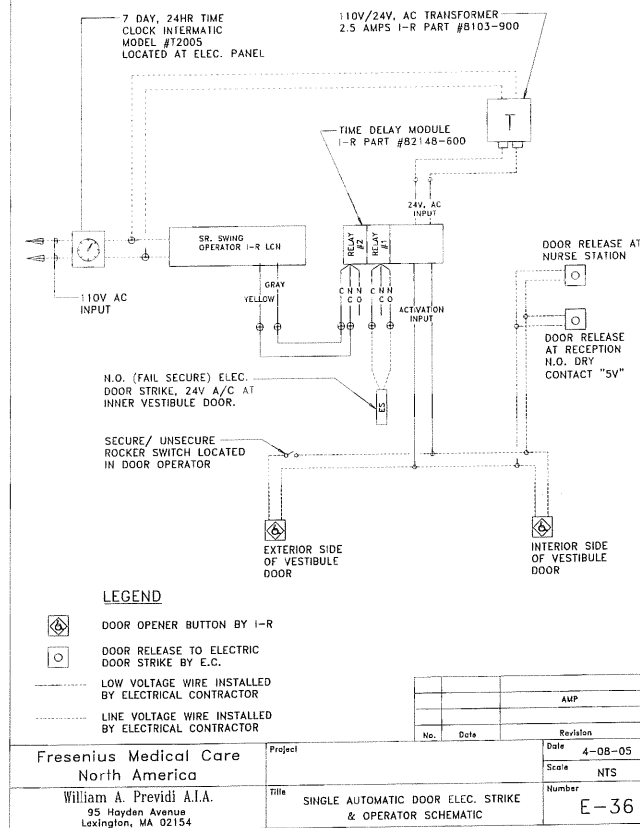
No.	Date	Revision
03-15-05	N.T.S.	

Fresenius Medical Care North America

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Project: SDS HEAD TANK LIGHT DETAIL (AMP)

Number: E-35



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Revision	Date	Description
1	9/04/2007	None

Drawing Title: ELECTRICAL DETAILS

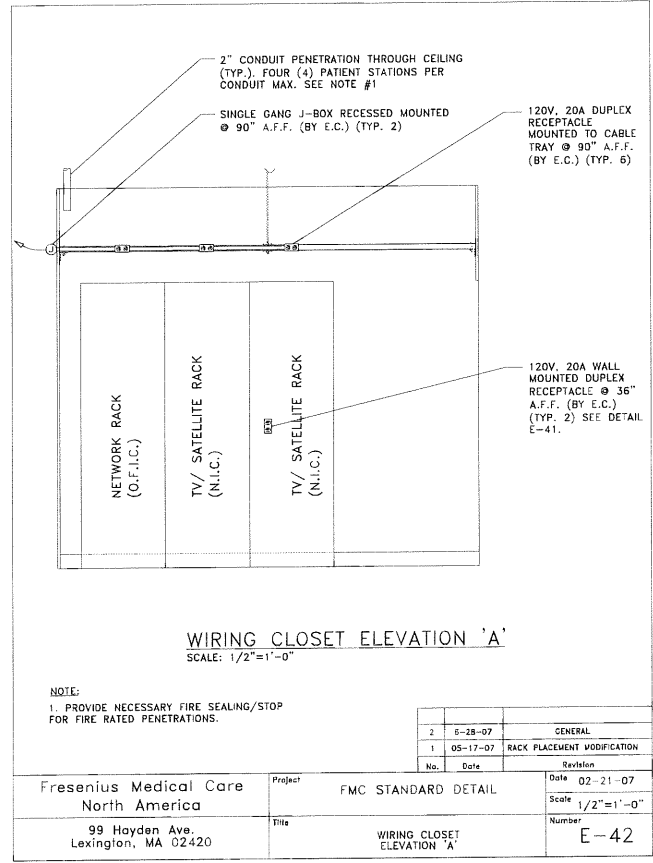
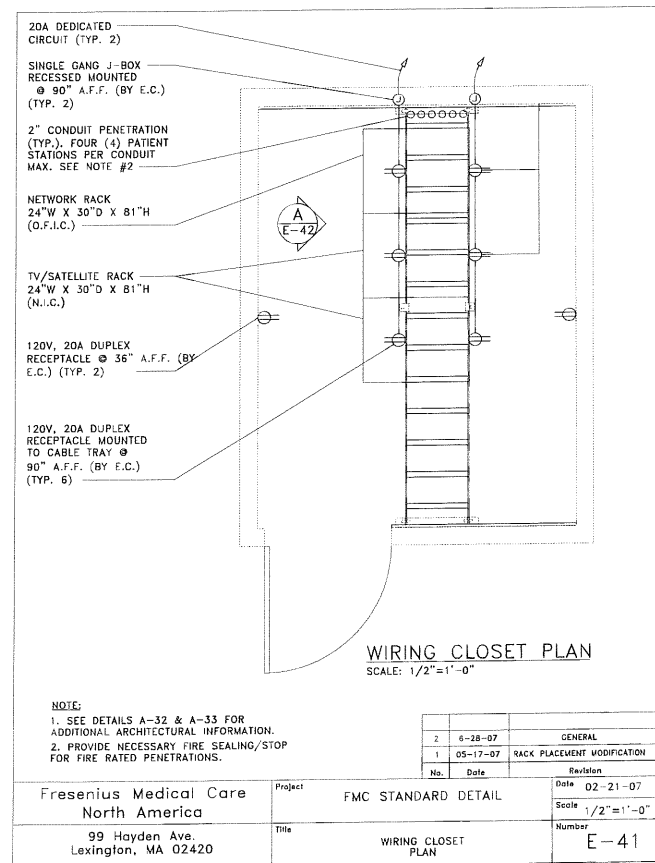
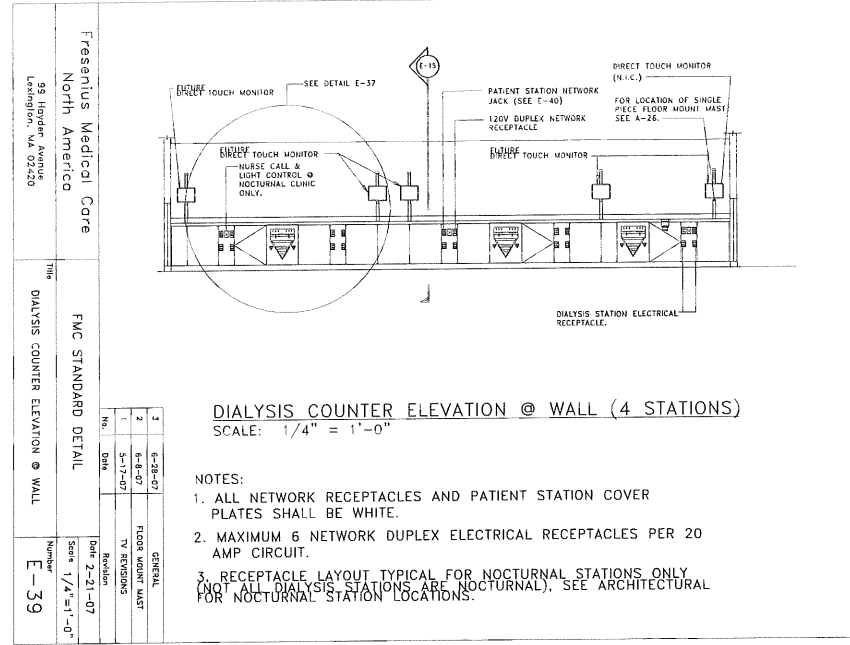
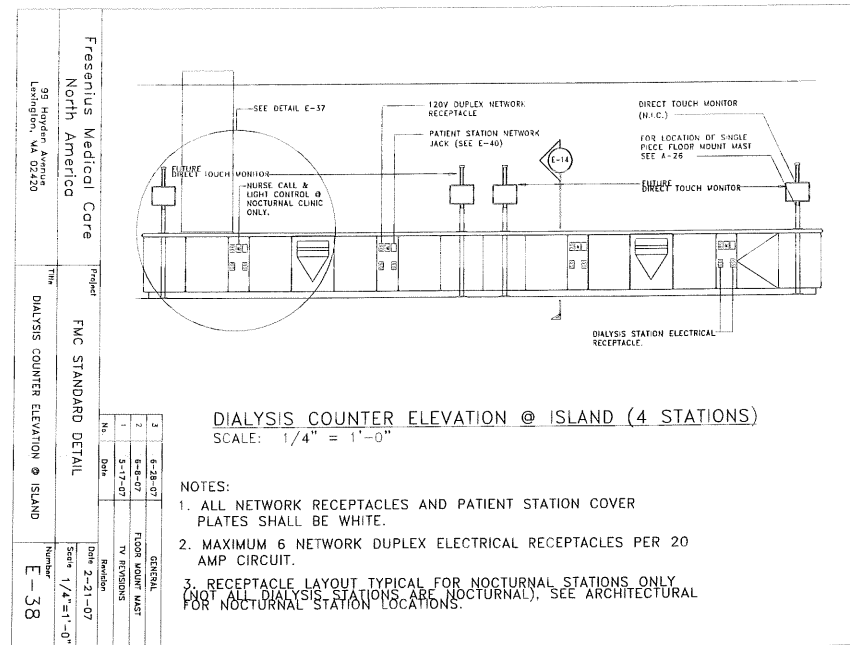
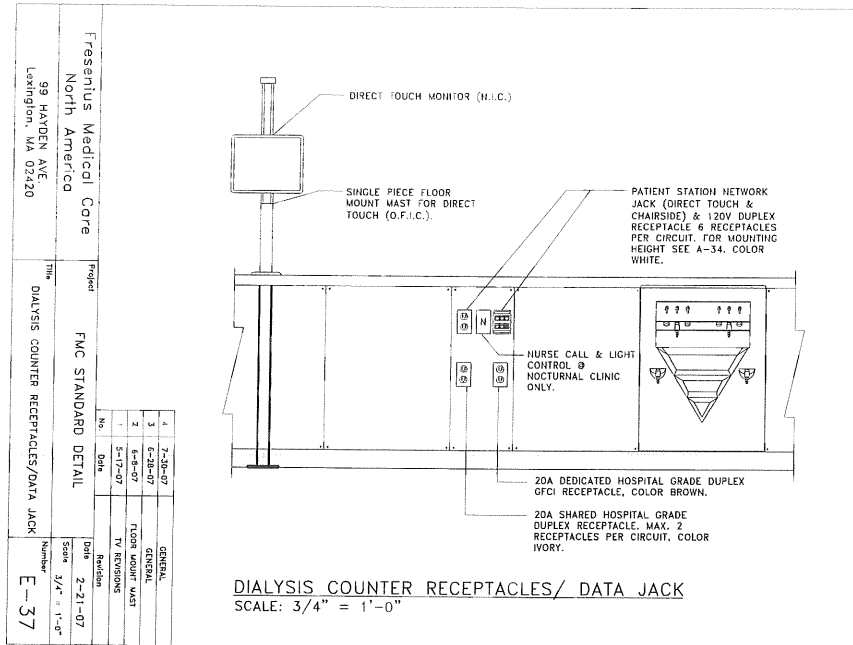
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Date: 9/04/2007

CWS Proj. No.: 2006 447 fip

Drawing Number:

E3.2



REVISIONS:	Description	Date

Drawing Title:	Electrical Details
Scale:	9/04/2007
Date:	CWS Proj. No.: 2006 447.fpd

