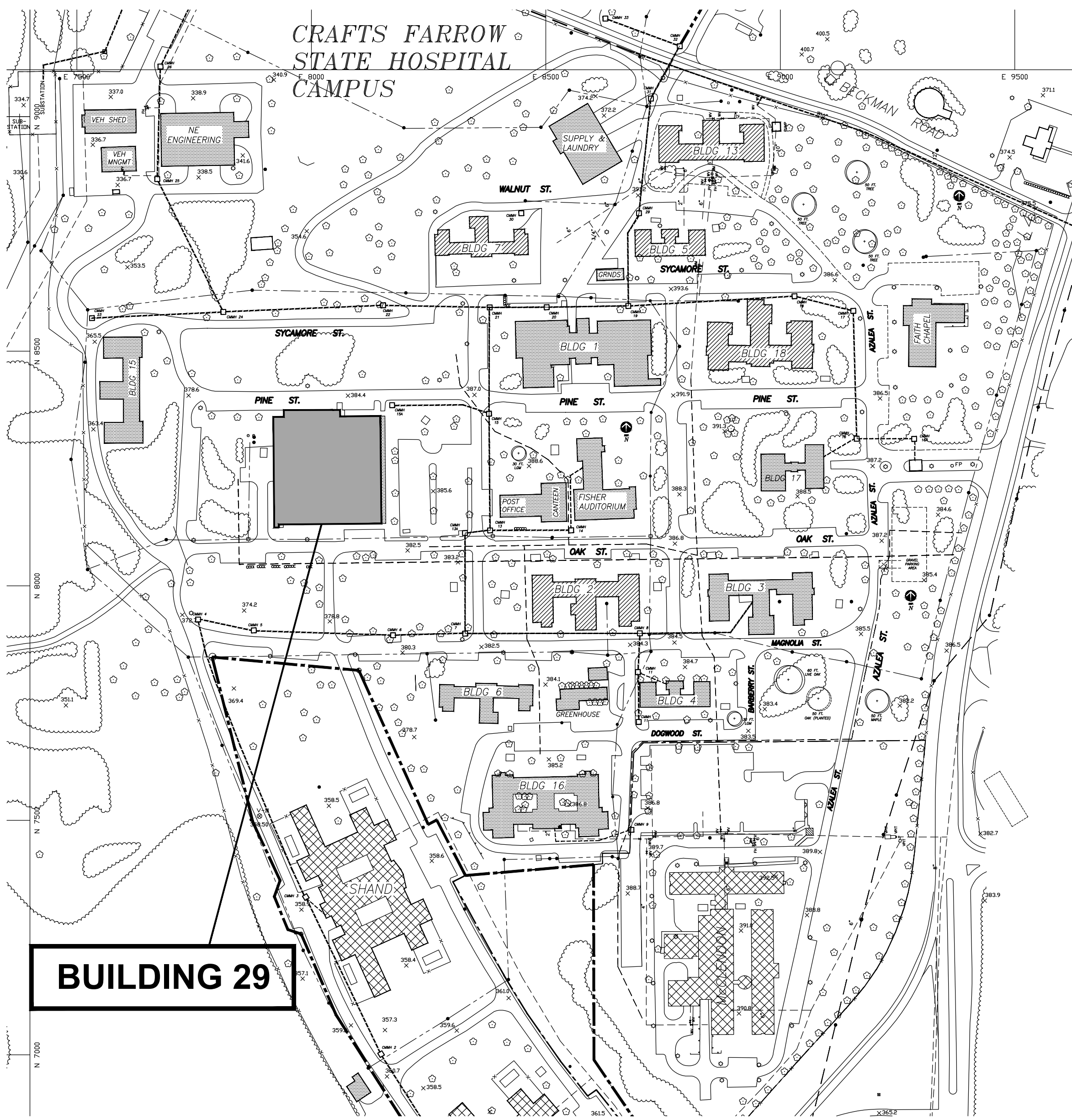


South Carolina Department of Mental Health Crafts Farrow State Hospital Campus - Building 29 New Dish Machine Ventilation

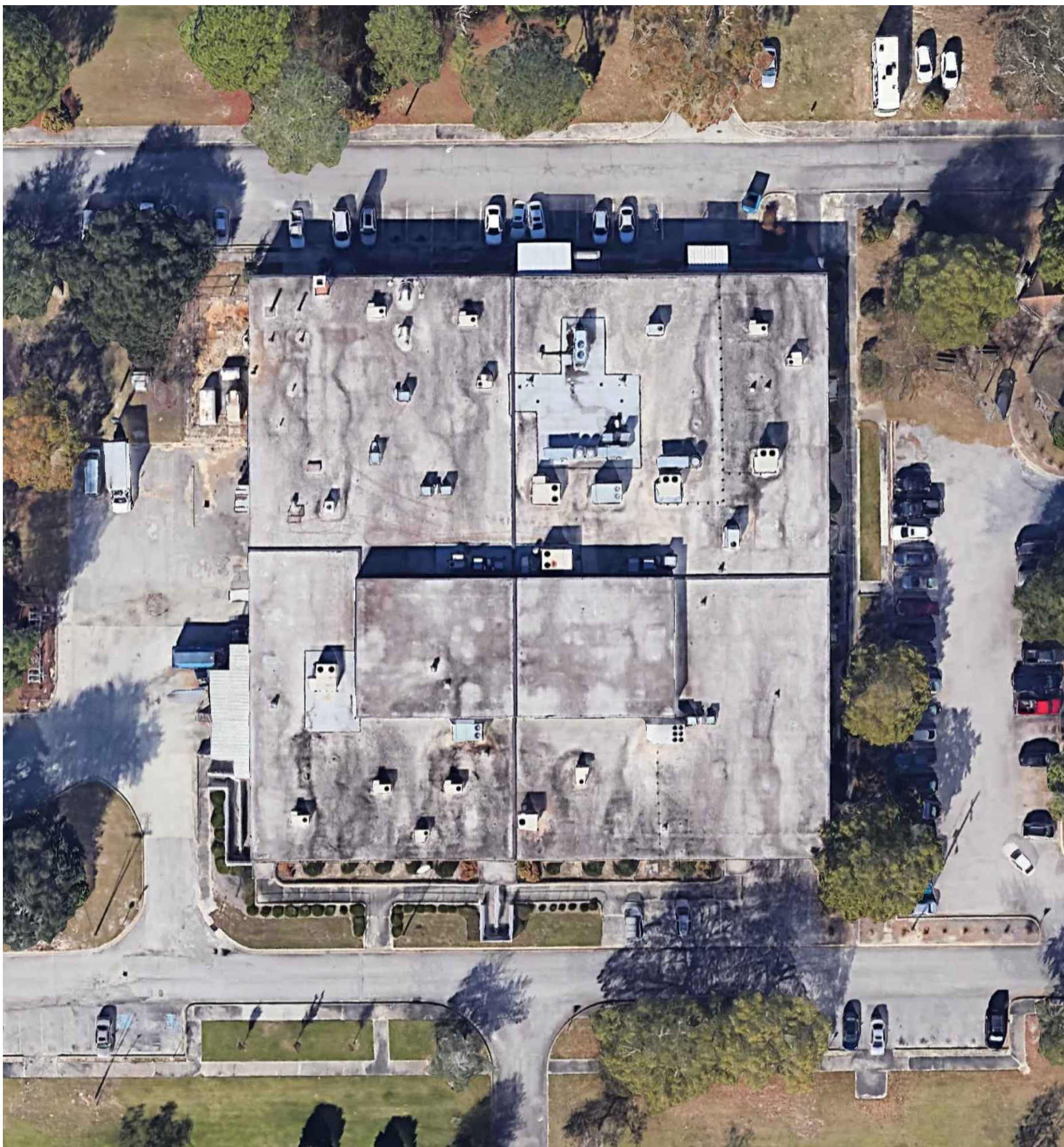
7901 Farrow Road, Columbia, SC 29203

December 9, 2022

AREA MAP



BUILDING 29



DRAWING INDEX

- GENERAL CONSTRUCTION**
- GC100 GENERAL CONSTRUCTION FLOOR PLAN - DEMOLITION & RENOVATION
- MECHANICAL**
- M100 HVAC FLOOR PLAN - DEMOLITION & RENOVATION
M101 HVAC ROOF PLAN - DEMOLITION & RENOVATION
M200 HVAC SCHEDULES & DETAILS

CODE ANALYSIS

1. SOUTH CAROLINA BUILDING CODE (SCBC): 2018
2. SOUTH CAROLINA FIRE CODE (SCFC): 2018
3. SOUTH CAROLINA FUEL GAS CODE (SCFGC): 2018
4. SOUTH CAROLINA MECHANICAL CODE (SCMC): 2018
5. SOUTH CAROLINA PLUMBING CODE (SCPC): 2018
6. NATIONAL ELECTRICAL CODE (NEC): 2017
7. INTERNATIONAL ENERGY CONSERVATION CODE (IECC): 2009
8. SEISMIC & WIND DESIGN CRITERIA: RISK CATEGORY III, SITE CLASS D, SEISMIC DESIGN CATEGORY C, WIND SPEED 125 MPH

Project Engineer:
DER

Drawn By:
WMS

Revisions:
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____
No. _____ Date _____

This drawing and the design shown are the property of:
Buford Goff & Associates.

The reproduction, copying or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action.

SOUTH CAROLINA
BUFORD
GOFF &
ASSOCIATES, INC.
No. 000022
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 10556
2/09/2021
DAN E. REIDER

SOUTH CAROLINA DEPARTMENT OF MENTAL HEALTH
CRAFTS FARROW STATE HOSPITAL CAMPUS - BUILDING 29
NEW DISH MACHINE VENTILATION

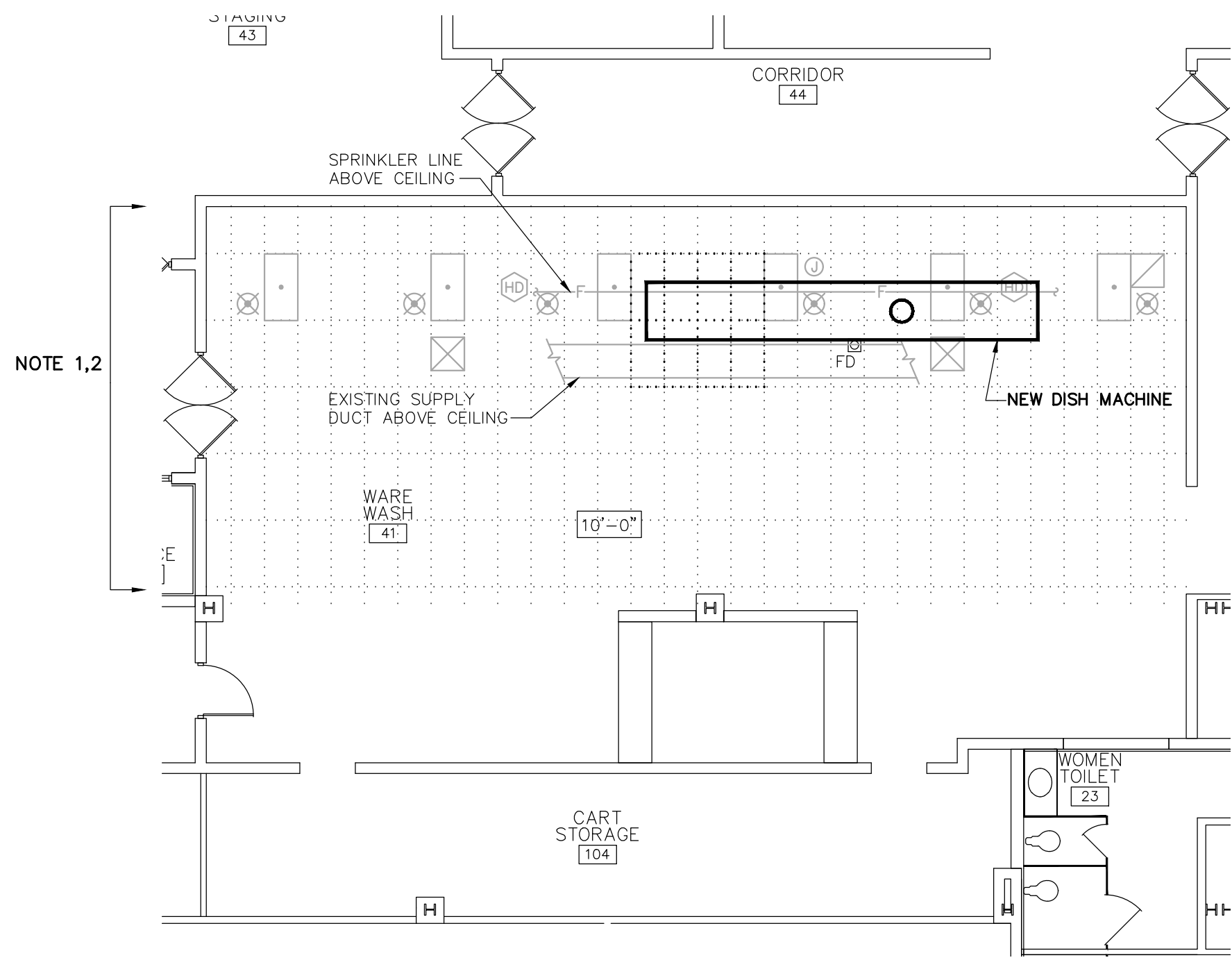
COVER SHEET

Buford
Goff
& Associates, Inc.
Engineers & Planners

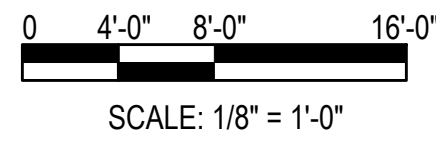
1331 Elmwood Ave.
Suite 200
Columbia, SC 29201
Phone: (803) 254 - 6302

Sheet Number:
CS

Date: December 9, 2022
Scale: As Noted
BGA PROJECT NUMBER: 22162



3 PARTIAL FLOOR PLAN - GENERAL CONSTRUCTION - RENOVATION
SCALE: 1/8" = 1'-0"



RENOVATION NOTES

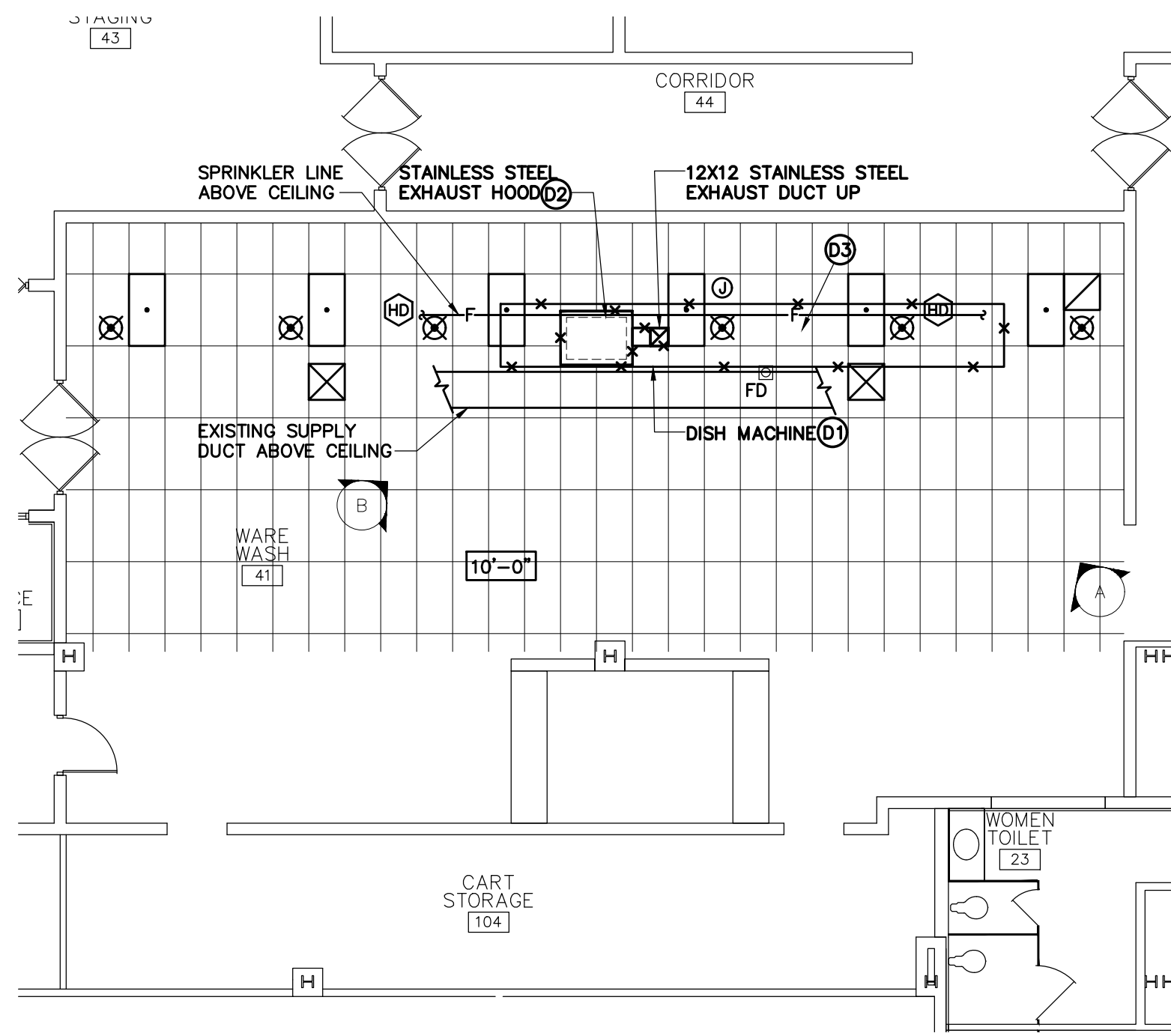
1. PROVIDE NEW GRID AND MOISTURE RESISTANT TILE WHERE THE EXISTING HOOD AND DUCT ARE REMOVED.
2. PROVIDE NEW FRAMED CEILING OPENING FOR NEW 16" Ø STAINLESS STEEL DUCT. SEE MECHANICAL DRAWINGS.



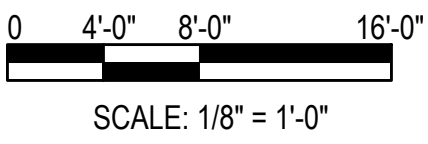
A DISH MACHINE AND HOOD
NTS



B DISH MACHINE AND HOOD
NTS



2 PARTIAL FLOOR PLAN - GENERAL CONSTRUCTION - DEMOLITION
SCALE: 1/8" = 1'-0"

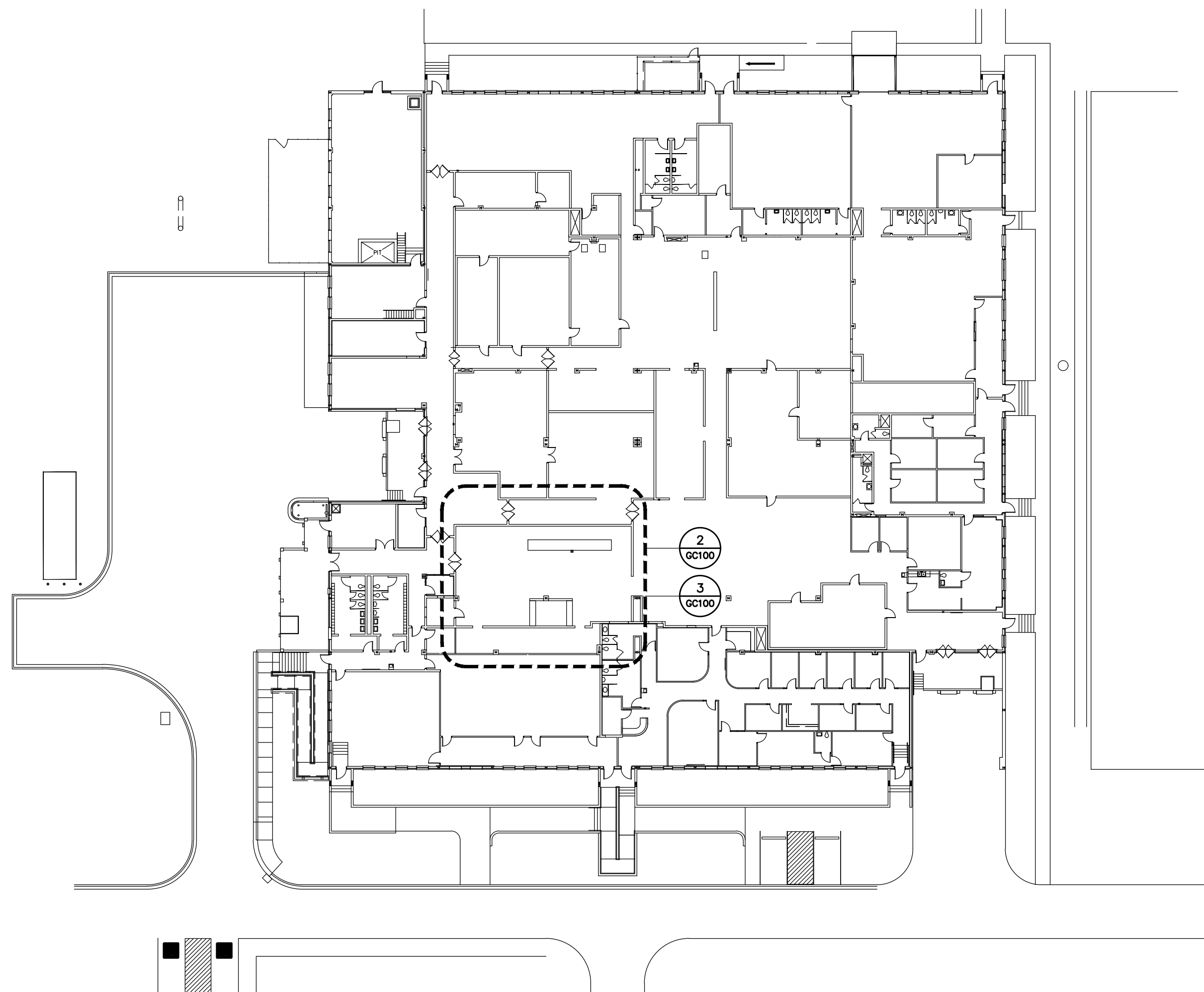


CEILING LEGEND

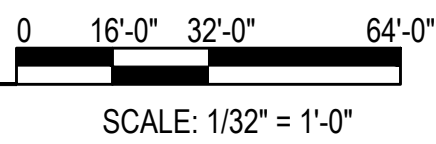
- 2x4 LIGHT FIXTURE
- ⊗ SPRINKLER HEAD
- ⊙ JUNCTION BOX
- ⊕ HEAT DETECTOR (STROBE)
- ▢ 2x2 RETURN GRILLE
- ▣ 2x2 SUPPLY GRILLE
- ▤ 2x4 ACOUSTIC CEILING TILE
- X-X' CEILING HEIGHT
- FD FLOOR DRAIN

DEMOLITION NOTES

1. DISH MACHINE TO BE REMOVED BY SC DHM (SOUTH CAROLINA DEPARTMENT OF MENTAL HEALTH) UNDER ANOTHER CONTRACT.
2. HOOD AND DUCT TO BE REMOVED. SEE MECHANICAL DRAWINGS. WHEN HOOD AND DUCT ARE REMOVED REPAIR GRID AND PROVIDE NEW MOISTURE RESISTANT CEILING TILE.
3. REMOVE GRID AND TILE WHERE NEW EXHAUST DUCT IS INSTALLED. SEE MECHANICAL DRAWINGS.

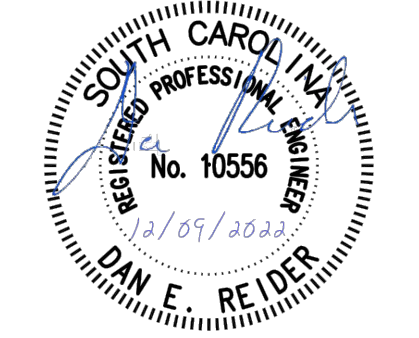
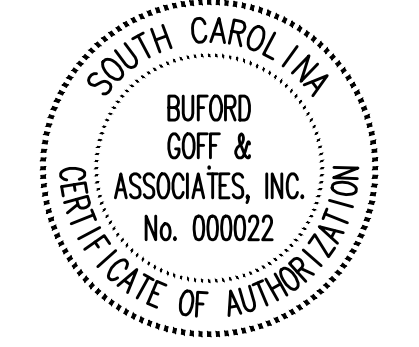


1 OVERALL FLOOR PLAN - GENERAL CONSTRUCTION
SCALE: 1/32" = 1'-0"



Project Engineer:	DER
Drawn By:	WMS
Revisions:	
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____

This drawing and the design shown are the property of:
Buford Goff & Associates.
The reproduction, copying or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action.



SOUTH CAROLINA DEPARTMENT OF MENTAL HEALTH
CRAFTS FARROW STATE HOSPITAL CAMPUS - BUILDING 29
NEW DISH MACHINE VENTILATION
GENERAL CONSTRUCTION FLOOR PLAN - DEMOLITION & RENOVATION

Project
Sheet Title

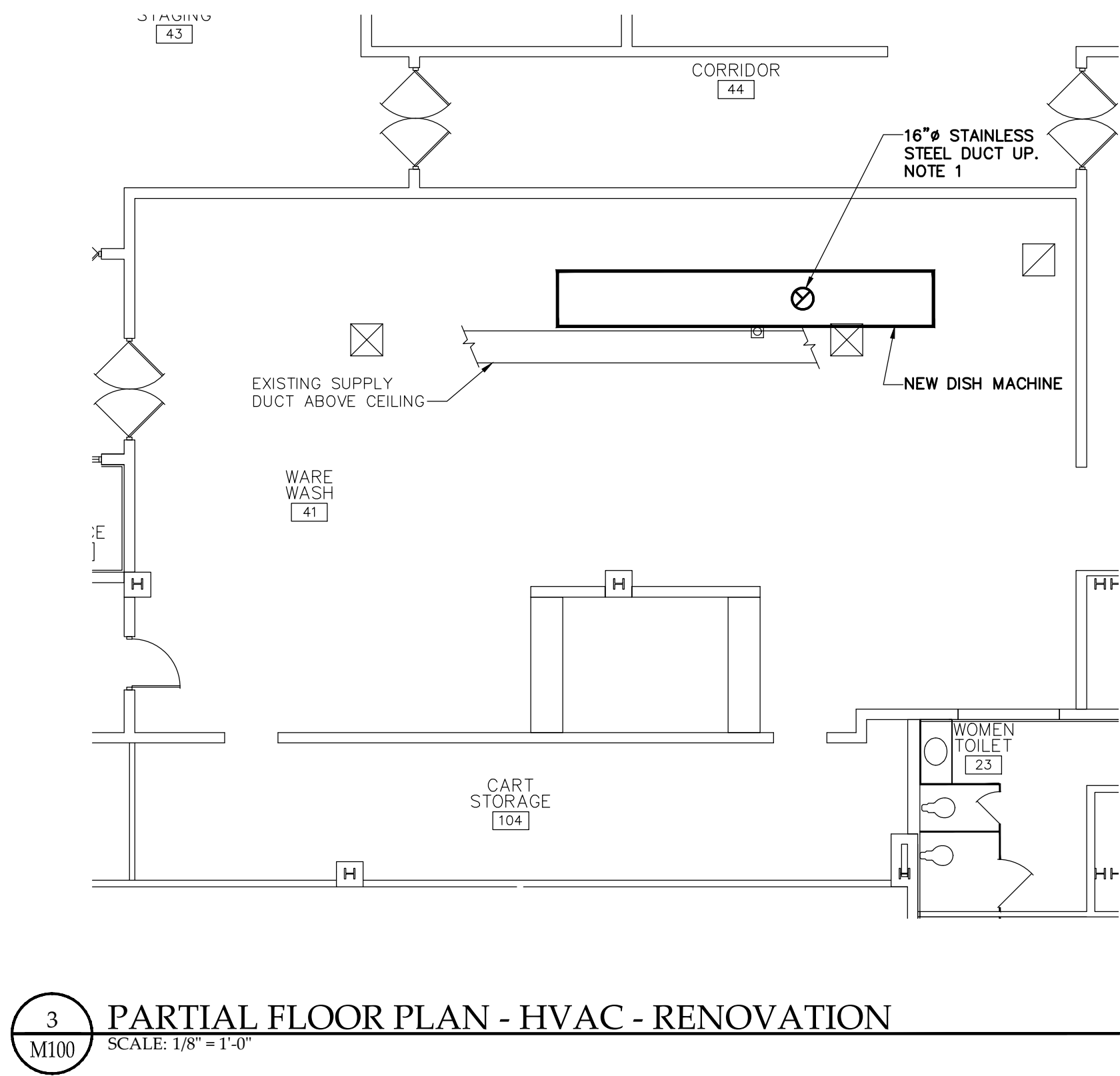
Buford
Goff
& Associates, Inc.
Engineers & Planners

1331 Elmwood Ave.
Suite 200
Columbia, SC 29201
Phone: (803) 254 - 6302

Sheet Number:

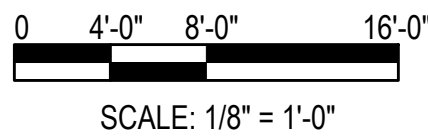
GC100

Date: December 9, 2022
Scale: As Noted
BGA PROJECT NUMBER: 22162



RENOVATION NOTES

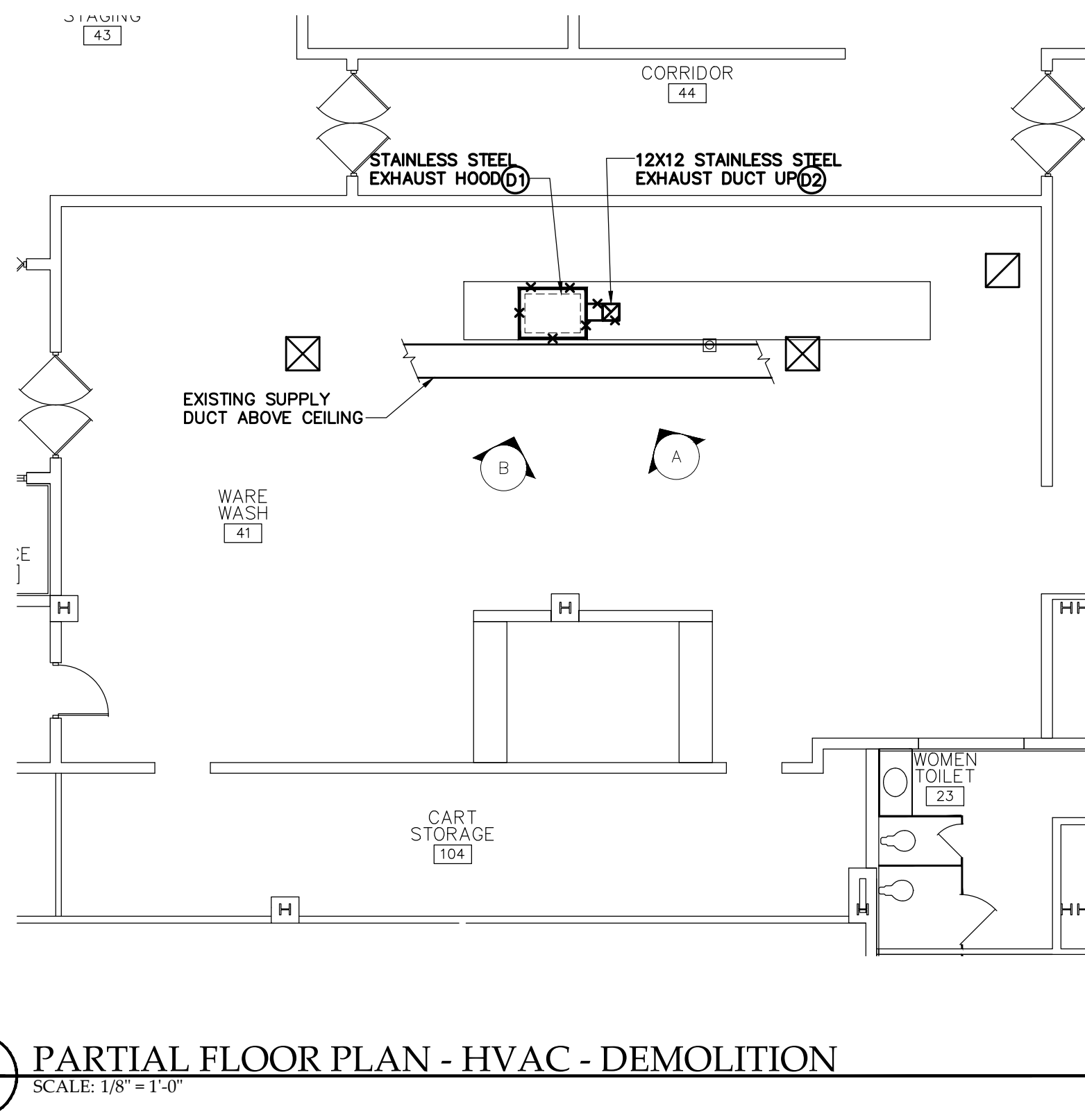
1. SEE DETAIL ON SHEET M200.



A EXISTING EXHAUST DUCT (ABOVE CEILING)
NTS

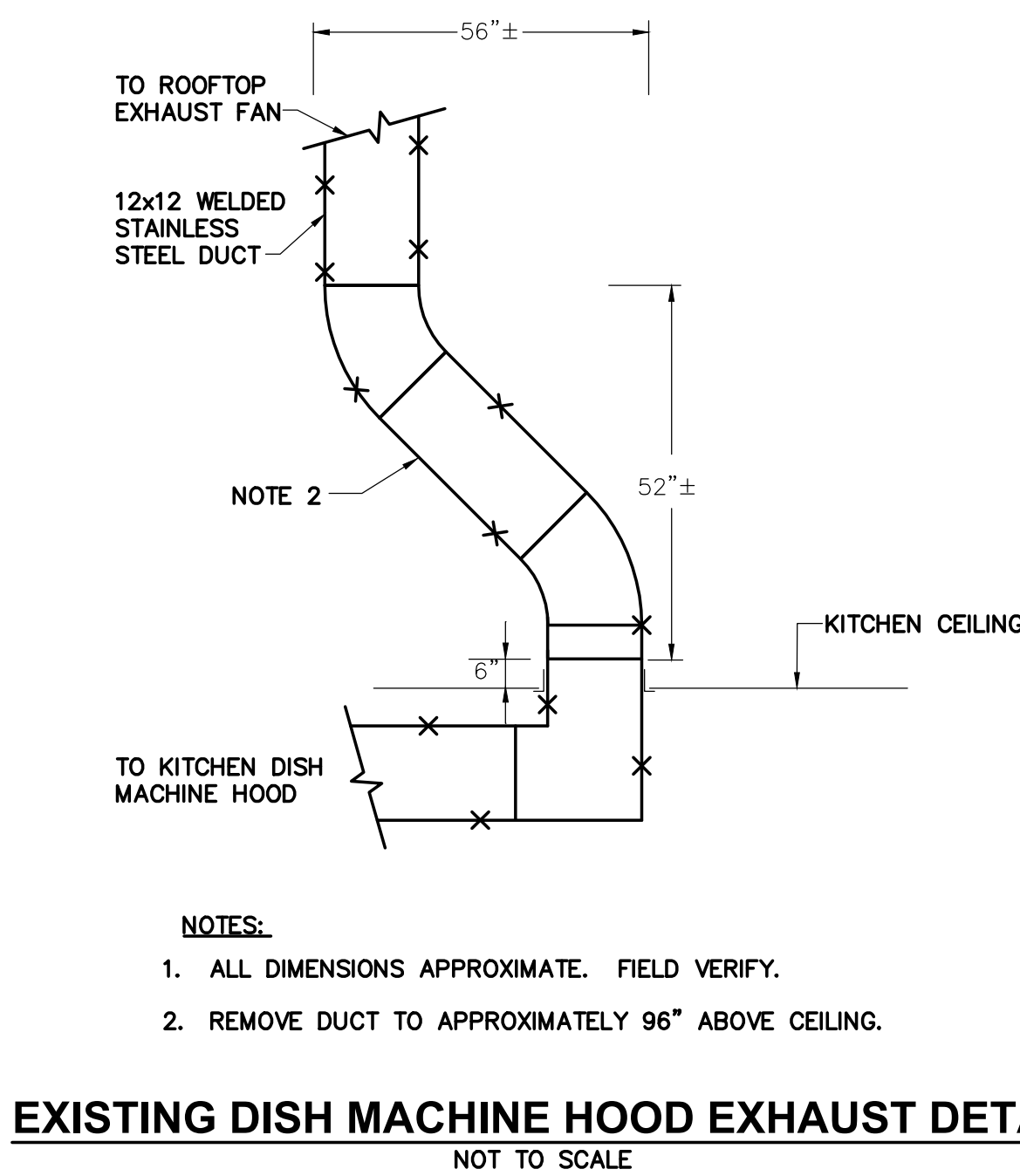
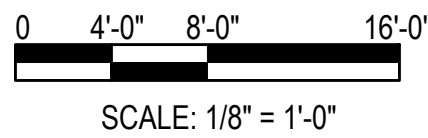


B EXISTING EXHAUST HOOD & EXPOSED DUCT
NTS

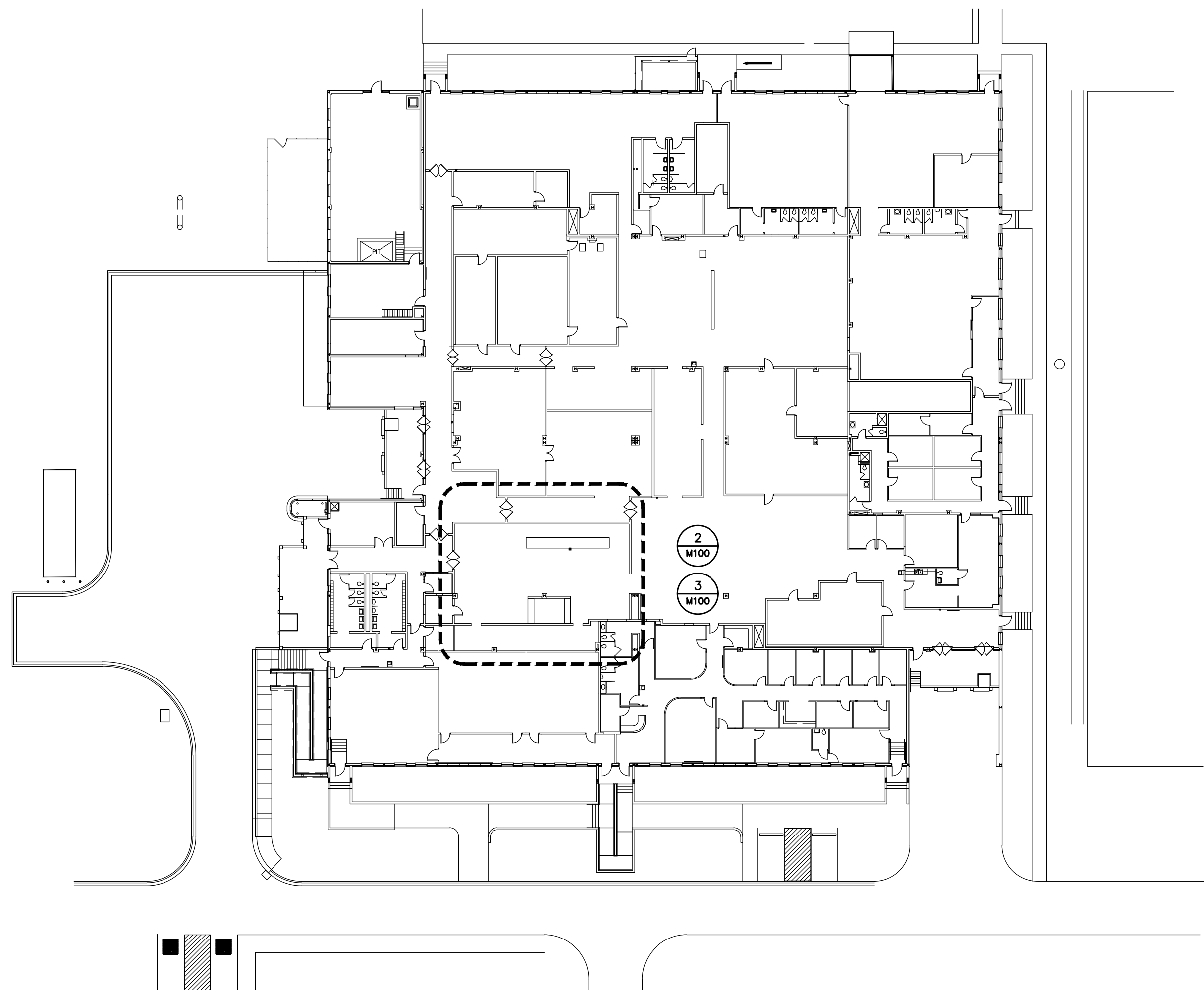


DEMOLITION NOTES

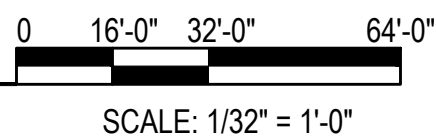
- (1) REMOVE EXISTING HOOD AND EXPOSED DUCT.
(2) REMOVE WELDED STAINLESS STEEL EXHAUST DUCT ABOVE CEILING TO 96\"/>



EXISTING DISH MACHINE HOOD EXHAUST DETAIL
NOT TO SCALE

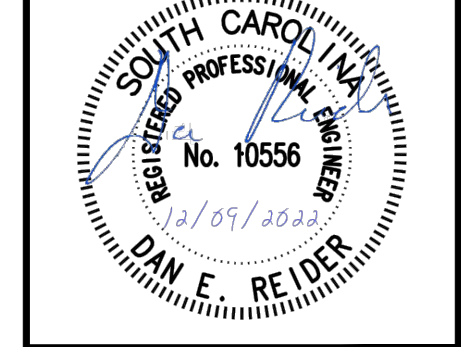
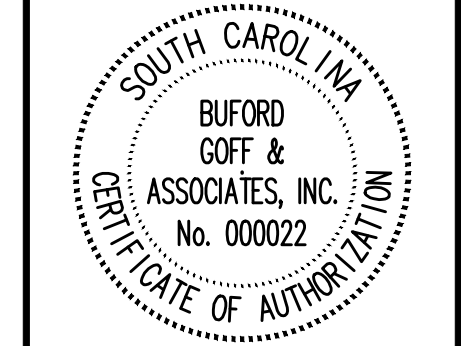


1 OVERALL FLOOR PLAN - HVAC
SCALE: 1/32\"/>



Project Engineer:	DER
Drawn By:	WMS
Revisions:	
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date

This drawing and the design shown are the property of:
Buford Goff & Associates.
The reproduction, copying or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action.



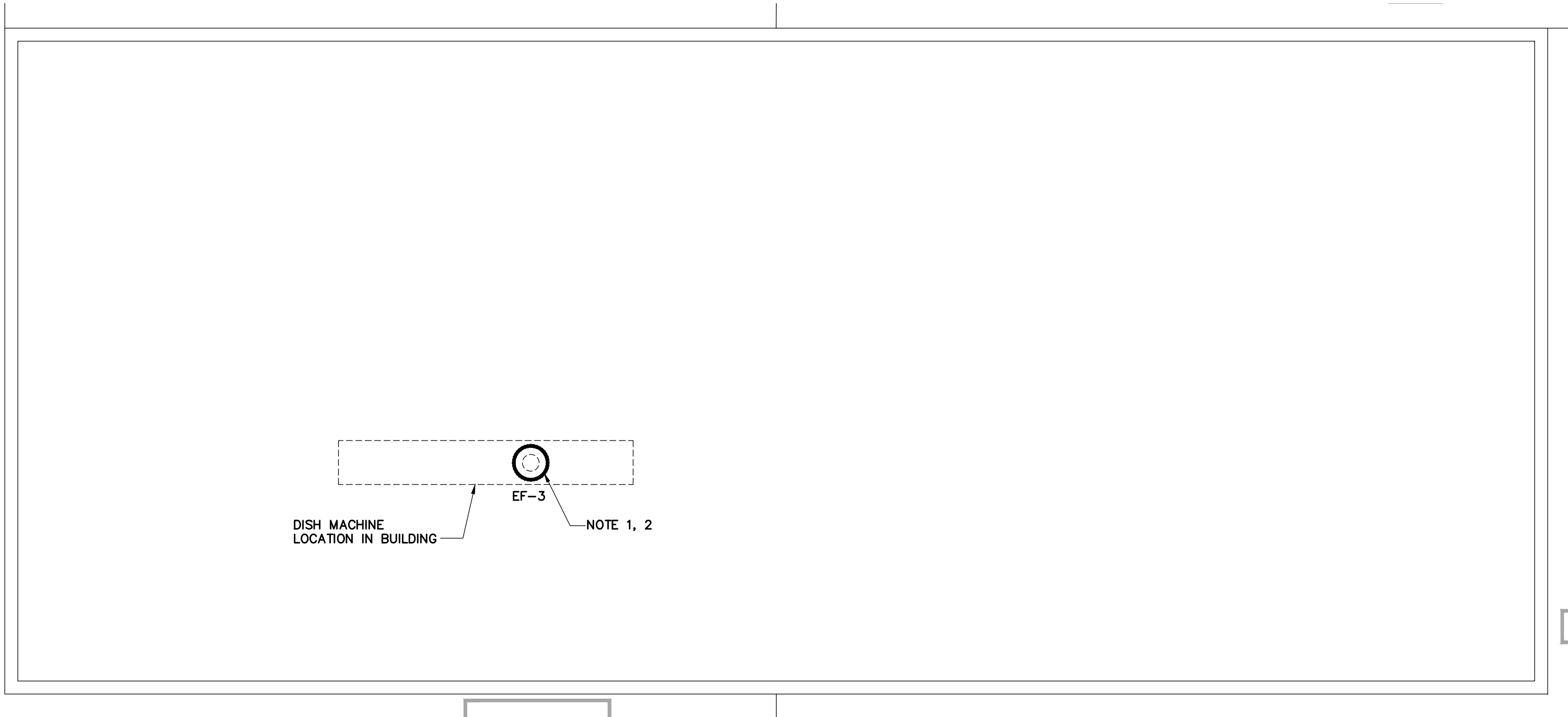
SOUTH CAROLINA DEPARTMENT OF MENTAL HEALTH
CRAFTS FARROW STATE HOSPITAL CAMPUS - BUILDING 29
NEW DISH MACHINE VENTILATION
HVAC FLOOR PLAN - DEMOLITION & RENOVATION

Buford
Goff
& Associates, Inc.
Engineers & Planners
1331 Elmwood Ave.
Suite 200
Columbia, SC 29201
Phone: (803) 254 - 6302

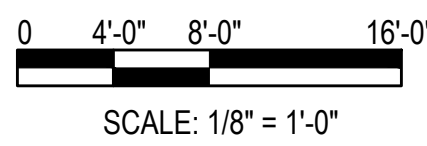
Sheet Number:
M100
Date: December 9, 2022
Scale: As Noted
BGA PROJECT NUMBER: 22162

RENOVATION NOTES

1. PROVIDE A NEW ADAPTER CURB. EXTEND THE WELDED STAINLESS STEEL EXHAUST DUCT.
2. INSTALL THE NEW EXHAUST FAN. PROVIDE CONTROLS TO INTERLOCK FAN OPERATION WITH THE NEW DISH MACHINE.

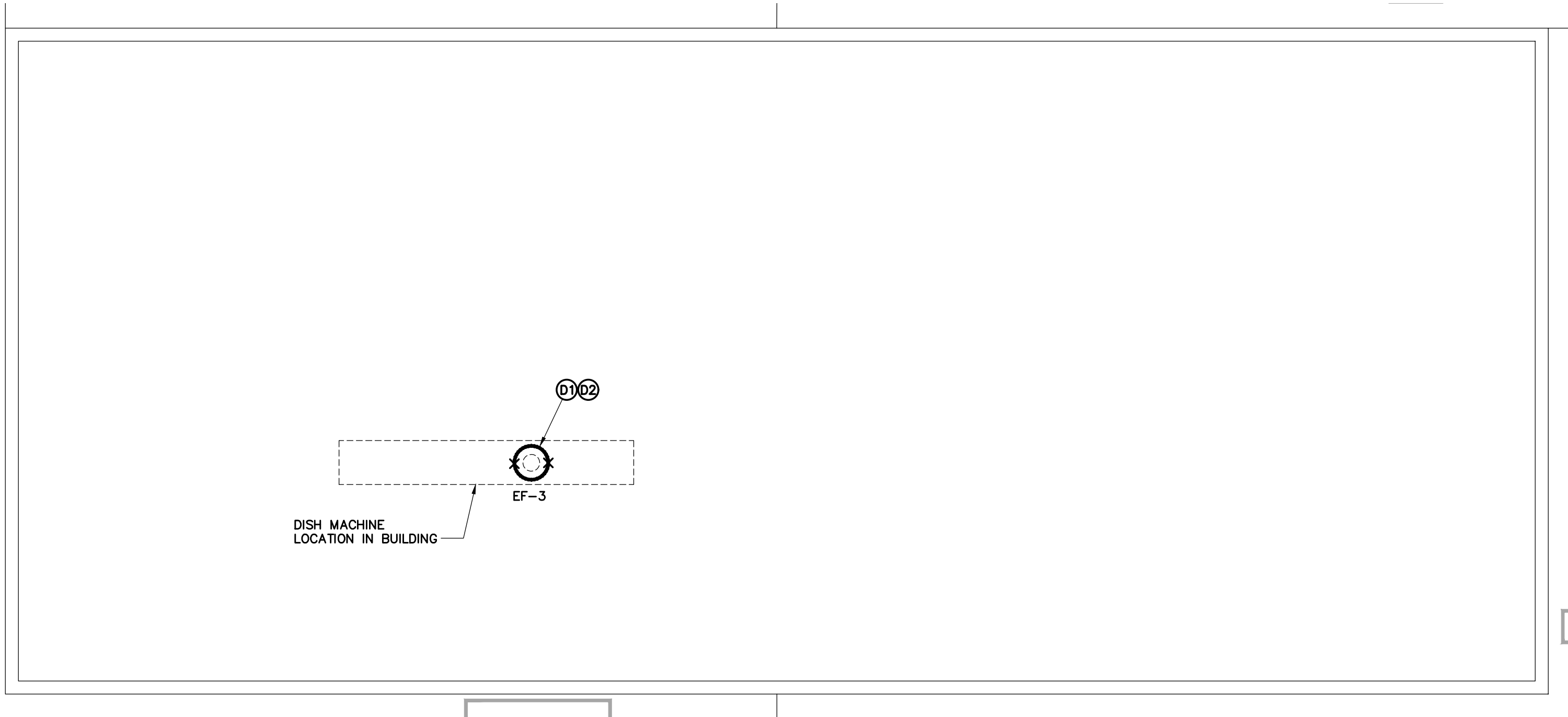


3 PARTIAL ROOF PLAN - HVAC - RENOVATION
SCALE: 1/8" = 1'-0"

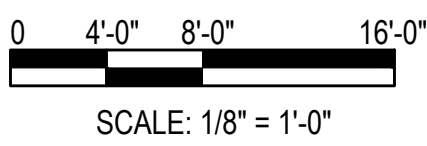


DEMOLITION NOTES

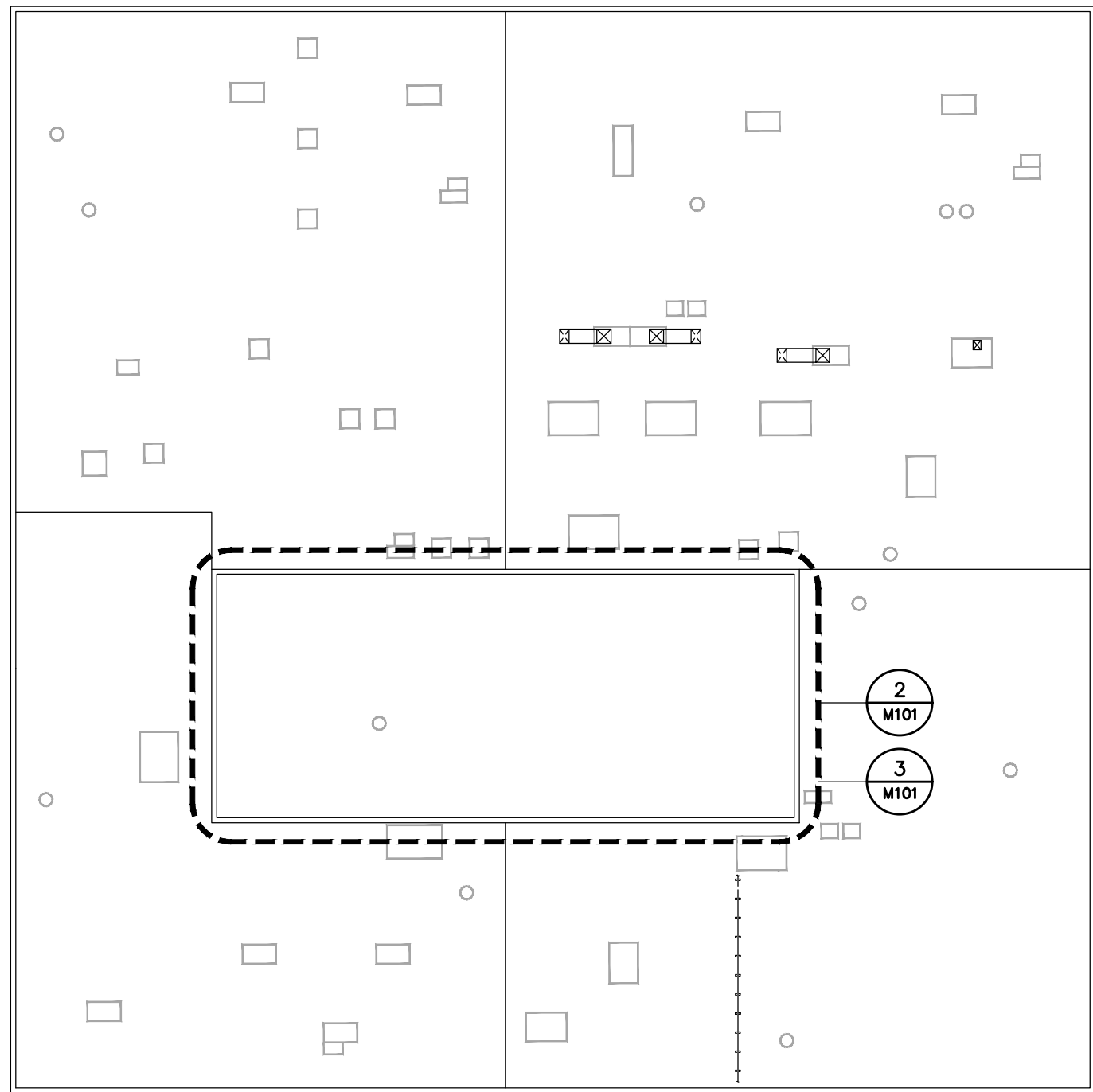
1. REMOVE EXHAUST FAN FROM CURB AND TEMPORARILY CAP UNTIL NEW DUCT AND FAN ARE INSTALLED.
2. MEASURE EXISTING CURB FOR DIMENSIONS REQUIRED FOR THE ADAPTER CURB.



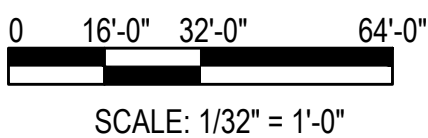
2 PARTIAL ROOF PLAN - HVAC - DEMOLITION
SCALE: 1/8" = 1'-0"



EXISTING EXHAUST FAN
TO BE REPLACED

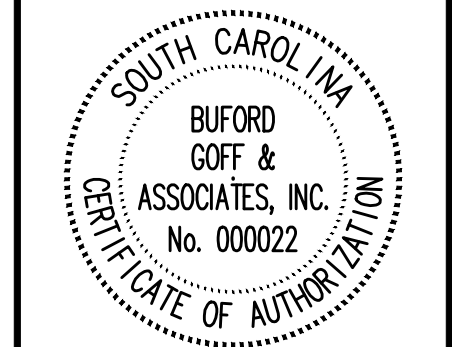


1 OVERALL ROOF PLAN - HVAC
SCALE: 1/32" = 1'-0"



Project Engineer:	DER
Drawn By:	WMS
Revisions:	
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date
No.	Date

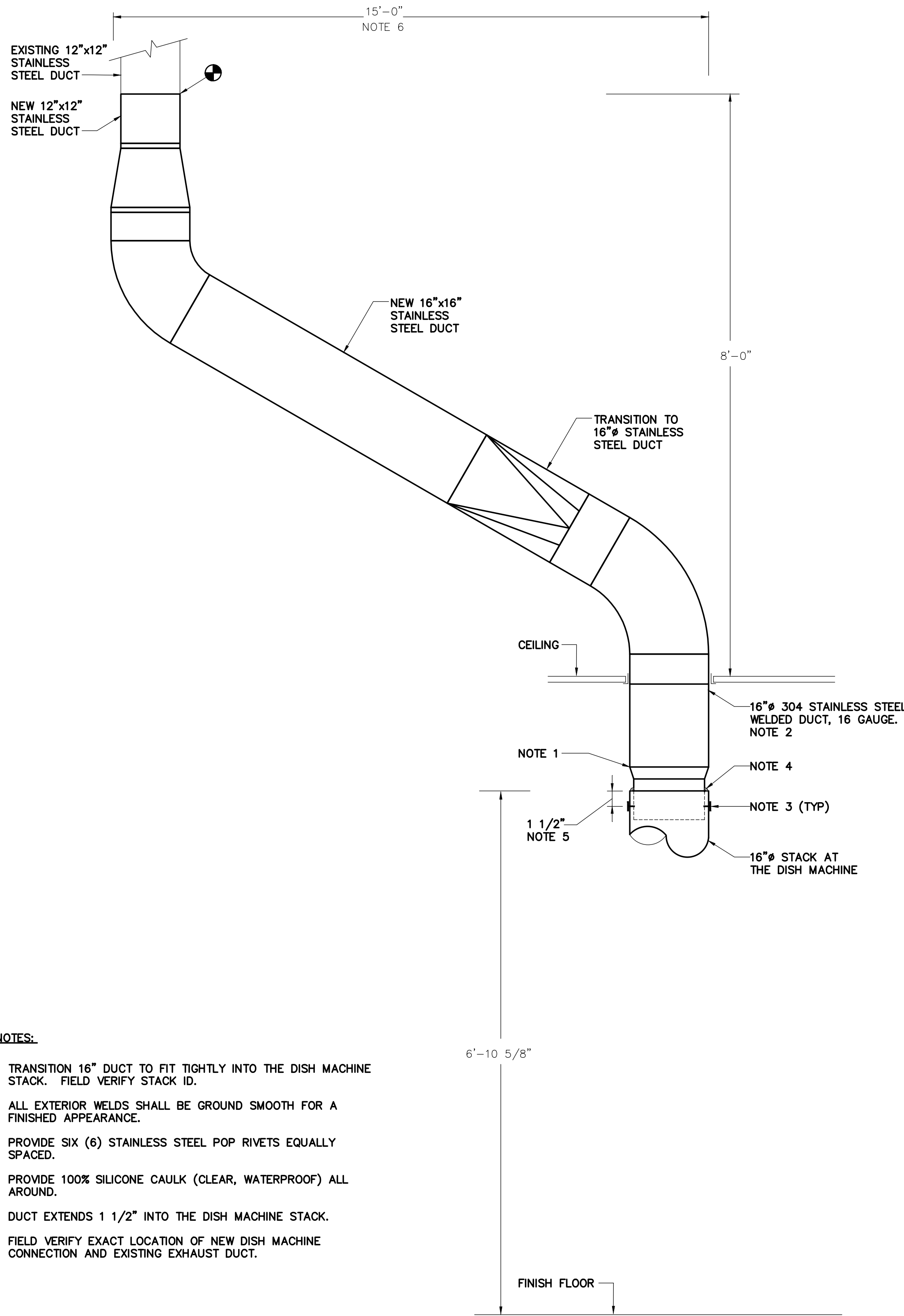
This drawing and the design shown are the property of:
Buford Goff & Associates.
The reproduction, copying or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action.



SOUTH CAROLINA DEPARTMENT OF MENTAL HEALTH
CRAFTS FARROW STATE HOSPITAL CAMPUS - BUILDING 29
NEW DISH MACHINE VENTILATION
HVAC ROOF PLAN - DEMOLITION & RENOVATION

Buford
Goff
& Associates, Inc.
Engineers & Planners
1331 Elmwood Ave.
Suite 200
Columbia, SC 29201
Phone: (803) 254 - 6302

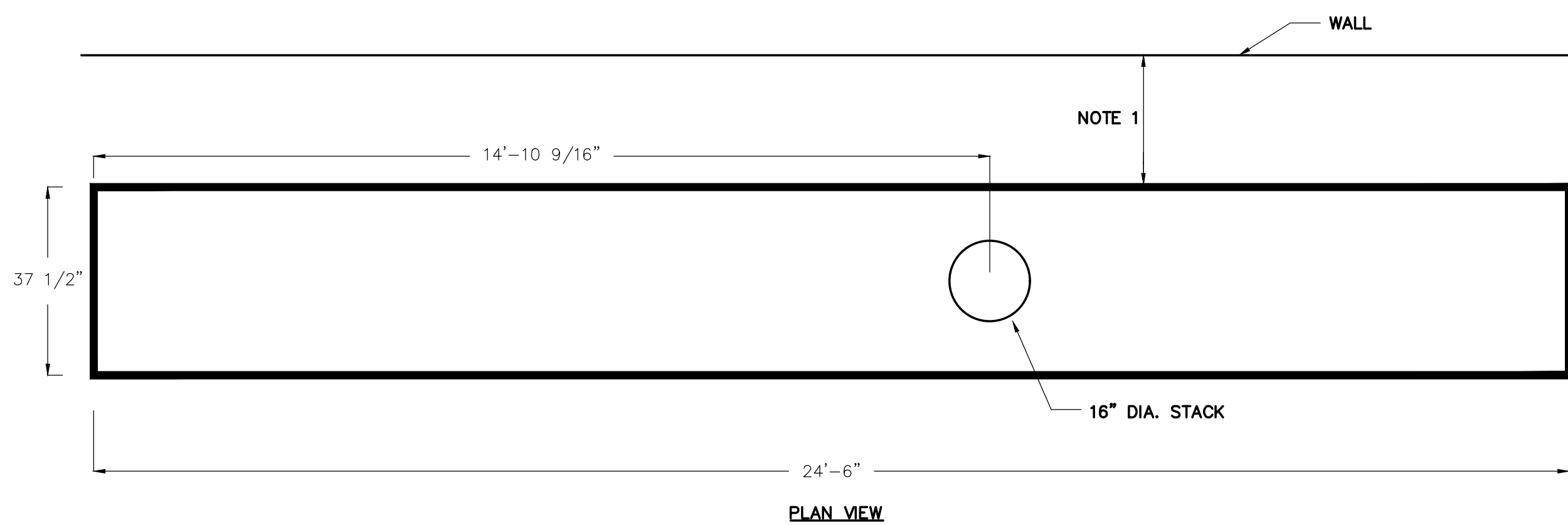
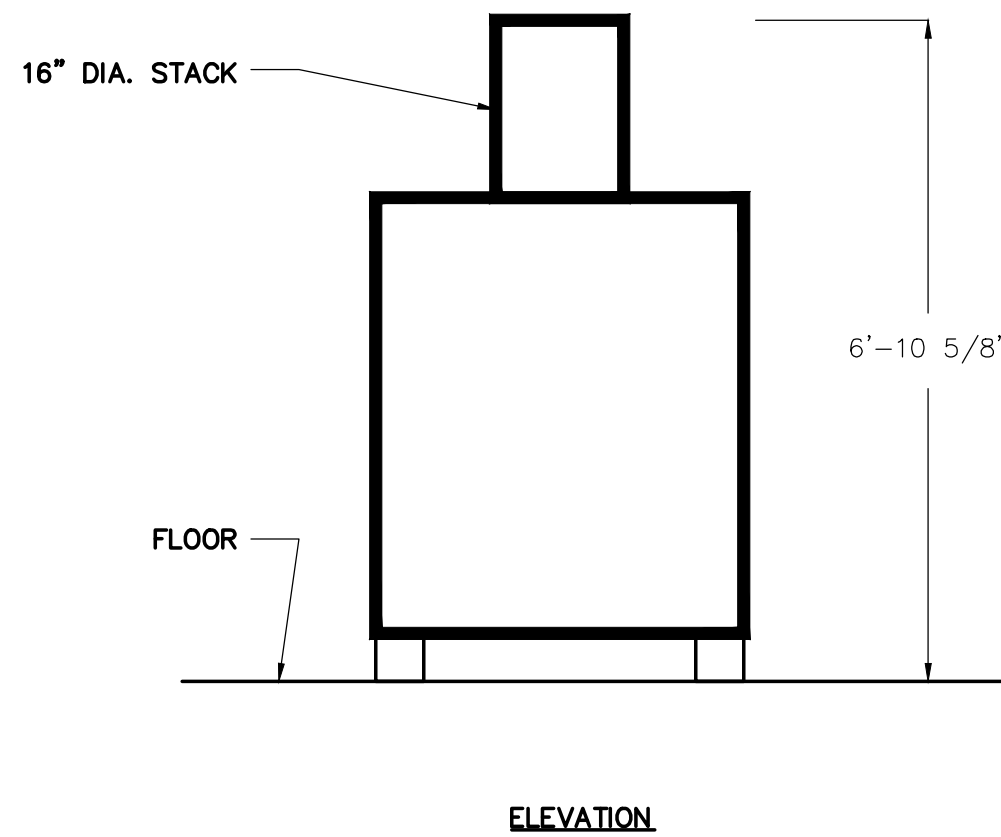
Sheet Number:
M101
Date: December 9, 2022
Scale: As Noted
BGA PROJECT NUMBER: 22162



NOTES:

1. TRANSITION 16" DUCT TO FIT TIGHTLY INTO THE DISH MACHINE STACK. FIELD VERIFY STACK ID.
2. ALL EXTERIOR WELDS SHALL BE GROUND SMOOTH FOR A FINISHED APPEARANCE.
3. PROVIDE SIX (6) STAINLESS STEEL POP RIVETS EQUALLY SPACED.
4. PROVIDE 100% SILICONE CAULK (CLEAR, WATERPROOF) ALL AROUND.
5. DUCT EXTENDS 1 1/2" INTO THE DISH MACHINE STACK.
6. FIELD VERIFY EXACT LOCATION OF NEW DISH MACHINE CONNECTION AND EXISTING EXHAUST DUCT.

NEW DISH MACHINE DUCT
NOT TO SCALE



NOTES:

1. THE NEW DISH MACHINE WILL BE INSTALLED AT APPROXIMATELY THE SAME DISTANCE FROM THE WALL AS THE EXISTING DISH MACHINE.
2. VERIFY DIMENSIONS WITH OWNER FURNISHED DISH MACHINE.

NEW DISH MACHINE DIMENSIONS
SCALE: 1/2" = 1'-0"

FAN SCHEDULE (BELT DRIVE, BASE BID)													
FAN #	LOCATION	SERVICE	CFM	ESP	MAX BHP	MAX HP	RPM	MAX * SONES	MAX. WEIGHT #	ELECT VOLT/PH	CONTROL	MANUFACTURER AND MODEL	REMARKS
EF-A	HIGH ROOF	DISH MACHINE	950	1.25	.43	1/2	1725	14.9	100	120/1	INTER W/DISH MACHINE	GREENHECK 141 HP-5	①②③④⑤⑥⑦⑧
* SOUND LEVEL DOES NOT INCLUDE ANY UNIT ACOUSTICAL OPTIONS ① ROOFTOP FAN ⑤ BIRDSCREEN ⑧ ADAPTER CURB ② UPBLAST FAN ⑥ DISCONNECT SWITCH ③ BELT DRIVE ⑦ SEE SEQUENCE IN SPECIFICATIONS ④ BACKDRAFT DAMPER													

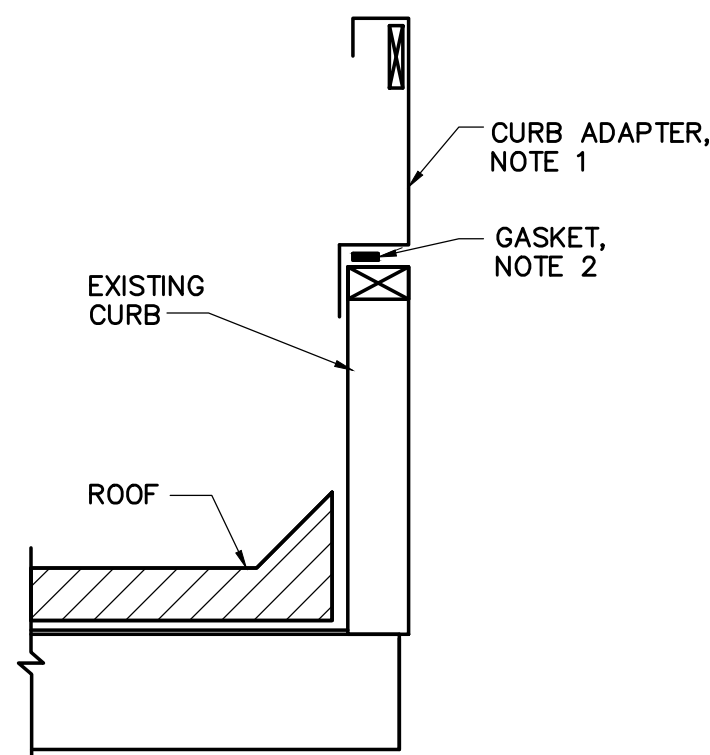
9/20

S3201

FAN SCHEDULE (DIRECT DRIVE, ALTERNATE NO. 1)													
FAN #	LOCATION	SERVICE	CFM	ESP	MAX BHP	MAX HP	RPM	MAX * SONES	MAX. WEIGHT #	ELECT VOLT/PH	CONTROL	MANUFACTURER AND MODEL	REMARKS
EF-B	HIGH ROOF	DISH MACHINE	950	1.25	.43	1/2	1725	14.9	100	120/1	INTER W/DISH MACHINE	GREENHECK 141 HP-A	①②③④⑤⑥⑦⑧⑨⑩
* SOUND LEVEL DOES NOT INCLUDE ANY UNIT ACOUSTICAL OPTIONS ① ROOFTOP FAN ⑤ BIRDSCREEN ⑨ SEE SEQUENCE IN SPECIFICATIONS ② UPBLAST FAN ⑥ DISCONNECT SWITCH ③ DIRECT DRIVE ⑦ CONTROLLABLE ECM MOTOR ⑩ ADAPTER CURB ④ BACKDRAFT DAMPER ⑧ FAN SPD CONTROLLER													

9/20

S3201



NOTES:

1. PROVIDE ADAPTER CURB ON TOP OF EXISTING CURB. COORDINATE EXACT SIZE WITH EXISTING CURB AND WITH NEW EQUIPMENT.
2. PROVIDE 1/8" NEOPRENE OR ELASTOMERIC GASKET BETWEEN EXISTING CURB AND ADAPTER CURB.
3. EXTEND WELDED STAINLESS STEEL DUCT TO TOP OF CURB ADAPTER. TRANSITION DUCT AS REQUIRED.

ROOFTOP CURB EXTENSION WITH ADAPTER CURB
3325E NOT TO SCALE 12/21

GENERAL NOTES:

1. ALL WIRING SHALL BE RUN IN CONDUIT.
2. PROTECT THE ROOF FROM DAMAGE AT ALL TIMES.

Project Engineer:	DER
Drawn By:	WMS
Revisions:	
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____

This drawing and the design shown are the property of:
Buford Goff & Associates.
The reproduction, copying or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action.



SOUTH CAROLINA DEPARTMENT OF MENTAL HEALTH
CRAFTS FARROW STATE HOSPITAL CAMPUS - BUILDING 29
NEW DISH MACHINE VENTILATION
HVAC SCHEDULES & DETAILS

Project
Sheet Title
Buford Goff & Associates, Inc.
Engineers & Planners
1331 Elmwood Ave.
Suite 200
Columbia, SC 29201
Phone: (803) 254 - 6302

Sheet Number:
M200
Date: December 9, 2022
Scale: As Noted
BGA PROJECT NUMBER: 22162