ADDENDUM NUMBER NINE

MBWWTP CONTROL ROOM UPGRADES W-15-009-201

CITY OF CHATTANOOGA, TENNESSEE

The following changes shall be made to the Contract Documents and Specifications:

I. CONTRACT DOCUMENT

- Add the following to Section 40 61 13, Paragraph 1.01 I:
 - 1. Provide screen modifications per Section 40 96 35 Appendix A during the HMI screen conversion to Wonderware InTouch.
- Add the following to Section 40 61 13, Paragraph 1.01:
 - V. Relocate the existing control room cabinet CP-6 with the remote site Motorola communications and control equipment as shown on Drawing E-3.
 - 1. The Contractor shall be Motorola certified to perform this scope of work.
 - W. Relocate the following equipment from the existing control room cabinets that are to be removed as shown on Drawing E-3 to a location where space allows in a control room cabinet that is to remain.
 - 1. Relocate the circuit breaker panel from existing panel CP-5 to panel CP-3.
 - 2. Relocate the fiber optic network equipment from existing panel CP-5 to panel CP-2.
 - 3. Relocate the fiber optic video surveillance equipment from existing panel CP-4 to panel CP-2.
 - X. Provide, install, and configure software for SCADA HMI screen and PLC program audit and tracking per Specification Section 40 68 00.

• Revise the table in Section 40 62 00, Paragraph 3.02 A, to the following:

	MS Windows Server	HMI Developer	HMI Server Runtime w/	HMI I/O Drivers	HMI Client Runtime	Historian software	Reporting software	Reporting Software Client	MS Windows	MS Office	Alarm dialer software	Programming Software	Graphics Controller Software	Graphics Control Client	Web Server Software	Audit Tracking Software
WS-DEV		•						♦	•	•		•				•
WS-A1					•			•	•	•				•		
WS-A2					*			•	•	*				•		
WS-A3					*			•	•	•				•		
WS-B1					•			•	•	•				•		
WS-B2					•			•	•	•				•		
WS-B3					*			•	•	*				*		
GDC-A					*				•	•			•			
GDC-B					•				•	♦			•			
SCADA SVR1	*		•	*						•	•				•	
SCADA SVR2	•		*	*						*	•				*	
HIST SVR	*					*	*			*						

- Revise Section 40 68 00, Paragraph 2.01 C.1 to the following:
 - 1. OLE for Process Control (OPC). The HMI software shall be both an OPC client for communicating to any OPC compliant server as well as an OPC server to serve data to any OPC compliant client.
- Revise Section 40 68 00, Paragraph 2.03 B.1 to the following:
 - 1. Data shall be directly stored in a standard enterprise database management system (DBMS). Data shall be directly stored in the DBMS, i.e., not passed through systems such as Microsoft Access and linked via ODBC or other mechanism into the DBMS. To insure stable operation of the network, the architecture shall incorporate native utilization of the enterprise database platform including stored procedures, triggers, and tuned indexes for your facility.

- Revise Section 40 68 00, Paragraph 2.04 A.1 to the following:
 - 1. Reporting software shall be a separate software package from the HMI. It shall run on the Historical Server.
- Revise Section 40 68 00, Paragraph 2.05 A.2 to the following:
 - 2. The remote access software shall be licensed to allow at least 25 concurrent users.
- Add the following to Section 40 68 00:

2.06 AUDIT TRACKING SOFTWARE

A. General

- The audit tracking software shall be added to the development workstation to track revisions of all HMI screens, HMI database files, HMI reports, and all PLC programs.
- 2. The audit tracking software shall automatically archive older versions and provide the capability to select an older file to make it the current active file.
- 3. The audit tracking software shall time stamp document modifications and require audit trail comments by the operator when updating current active files.
- Add the following to Section 40 96 35, Paragraph 1.01 B.10 a:
 - 1) Provide screen modifications per Section 40 96 35 Appendix A during the HMI screen conversion to Wonderware InTouch.
- Add the following to Section 40 96 35, Paragraph 1.01 B.10 b:
 - 1) Provide an RTU Communications Link Diagnostics Tool for Information from each remote site RTU including:
 - a) Link data based off of the Motorola MDLC protocol directly from the RTU internal diagnostics. It will not be created within the HMI application or based on programming at the frontend processors.
 - b) Provide this link data in actual RTU tables.
 - c) Display link data in SCADA screens to include:
 - i. Number of transmit frames
 - ii. Number of received frames
 - iii. Number of retry frames
 - iv. Calculated % of entries
 - d) Provide Radio Diagnostic Reports for each RTU based on the above link
 - e) Automatically highlight a site if the number of retries exceed a user defined percentage in a Monthly Report.
 - f) Provide the ability to specify the dates of the report.
 - 2) Provide the following RTU battery diagnostics information on SCADA screens for each RTU:
 - a) Battery fail alarm
 - b) Battery charge level

- c) Battery internal temperature
- d) Notification of alarm from HMI
- Replace Section 40 96 35, Paragraph 1.01 B.11 and 12 with the following:
 - 11. Provide, install, and configure software for SCADA HMI screen and PLC program audit and tracking per Specification Section 40 68 00.
 - 12. Provide PLC Program Development for the following:
 - a. Convert 3 existing PLC programs from existing 90-70 processors to RX3i processors. Provide testing per Section 40 61 21.
 - 13. Backfill historical database from existing electronic databases.
- Revise Section 40 96 35, Paragraph 1.03 F.1 d to the following:
 - d. Description of methodology for entering manual data and interface used.
- Add the attached Appendix A *Moccasin Bend WWTP O&C SCADA Upgrade General Requirements* to Section 40 96 35.

II. PLAN SHEET REVISIONS

- Delete Plan Sheets A-2, A-4, A-5, A-6, A-7, A-8, AD-1, and AD-2 in their entirety and replace with the attached Sheets A-2, A-4, A-5, A-6, A-7, A-8, AD-1, and AD-2.
- Delete Plan Sheet H-3 in its entirety and replace with the attached Sheet H-3.
- Delete Plan Sheets E-3, E-4, and E-5 in their entirety and replace with the attached Sheets E-3, E-4, and E-5.

September 18, 2017	Justin C Holland, Administrator
	City of Chattanooga

BUILDING CODE KEY DETERMINATIONS 2012 INTERNATIONAL EXISTING BUILDING CODE 2012 INTERNATIONAL BUILDING CODE 2012 INTERNATIONAL FIRE CODE WITH LOCAL AMENDMENTS APPLICABLE CODES CONTROL ROOM UPGRADES

ACTUAL 143 FT

LEVEL 2 ALTERATION RECONFIGURATION OF SPACE, RELOCATION OF DOOR, INSTALLATION OF EQUIPMENT CLASSIFICATION OF WORK EXISTING BUILDING CODE CHAPTER 4 BUILDING CLASSIFICATION

ASSUMED GROUP B, BUSINESS (NO CHANGE)
TYPE II—B (NO CHANGE)

200 FT

BUILDING HEIGHTS AND AREAS NO CHANGE IN HEIGHT OR AREA OF BUILDING AREA/100 SF PER OCCUPANT = 22 OCCUPANTS* OCCUPANT LOAD SECTION 1004.1 (EXCEPTION)

EXITS PER SPACE TABLE 1015.1 REQUIRED ACTUAL 1

MAXIMUM

FIRE SEPARATION DISTANCE NO CHANGE FIRE RESISTANCE RATING

STAIRS

TABLE 1016.2

OCCUPANCY CONSTRUCTION

MAX TRAVEL DISTANCE

NO CHANGE TO EXIT STAIRS

RAMPS N/A SPRINKLERS REQUIRED * OCCUPANT LOAD CALCULATED FOR WORK AREA ONLY LIFE SAFETY PLAN LEGEND

EXIT DISCHARGE (EXISTING)

AREA OR SPACE EXIT

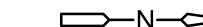
PATH OF TRAVEL

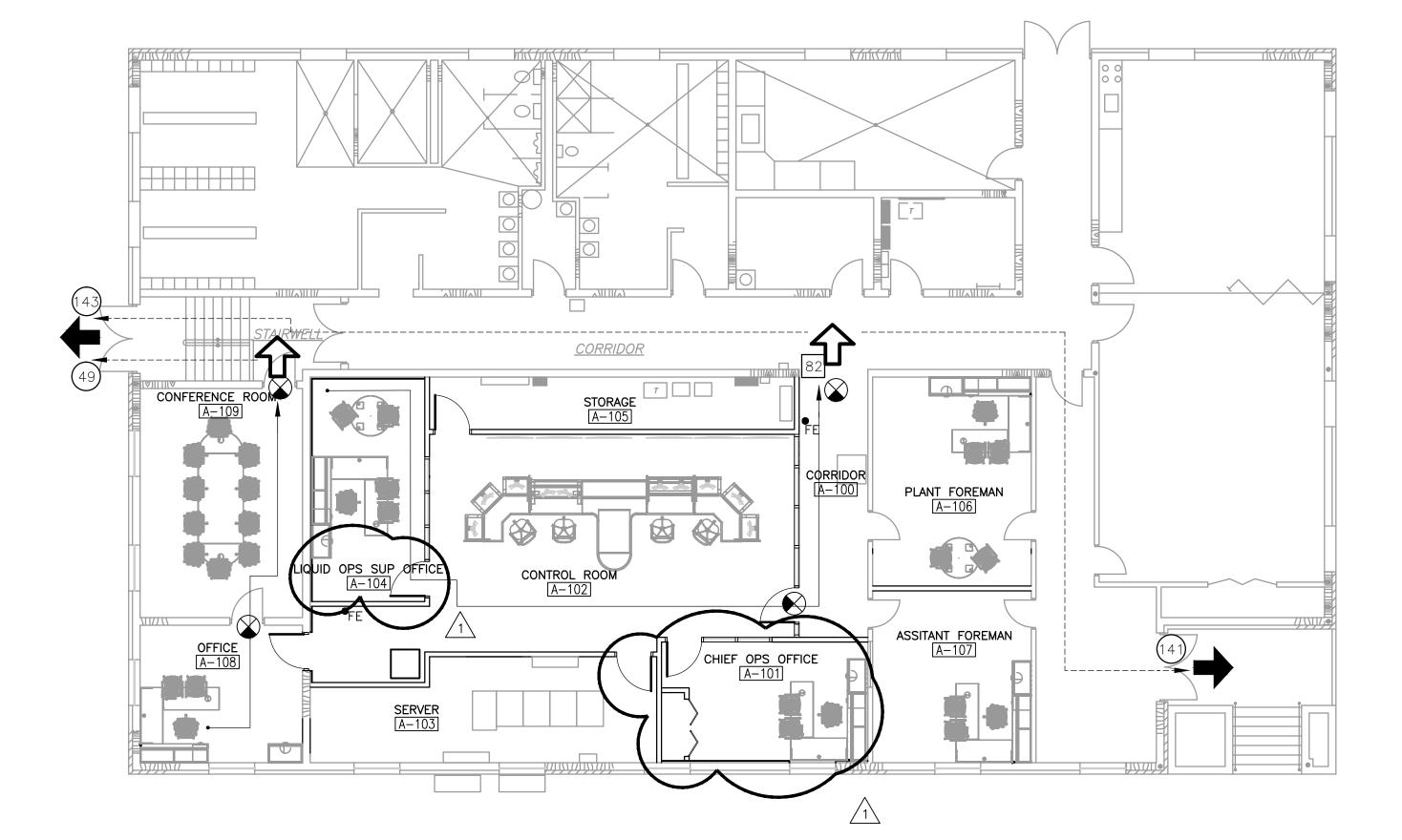
UNALTERED PATH OF TRAVEL TRAVEL DISTANCE (FEET)

COMMON PATH OF TRAVEL (FEET)

FIRE EXTINGUISHER

EXIT SIGNS



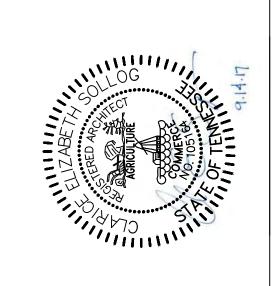


CONTROL ROOM LIFE SAFETY

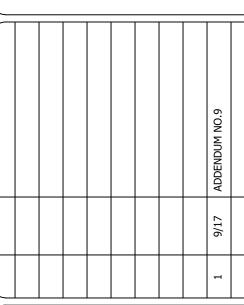
PLAN

1/8" = 1'-0"

GENERAL NOTES FOR GENERAL NOTES, GENERAL DEMOLITION NOTES, SEE SHEET A-1



MBWWTP CONTROL ROOM UPGRAGES CITY OF CHATTANOOGA, TN



THIS LINE _____ ── IS ONE INCH LONG WHEN PLOTTED FULL SCALE THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS

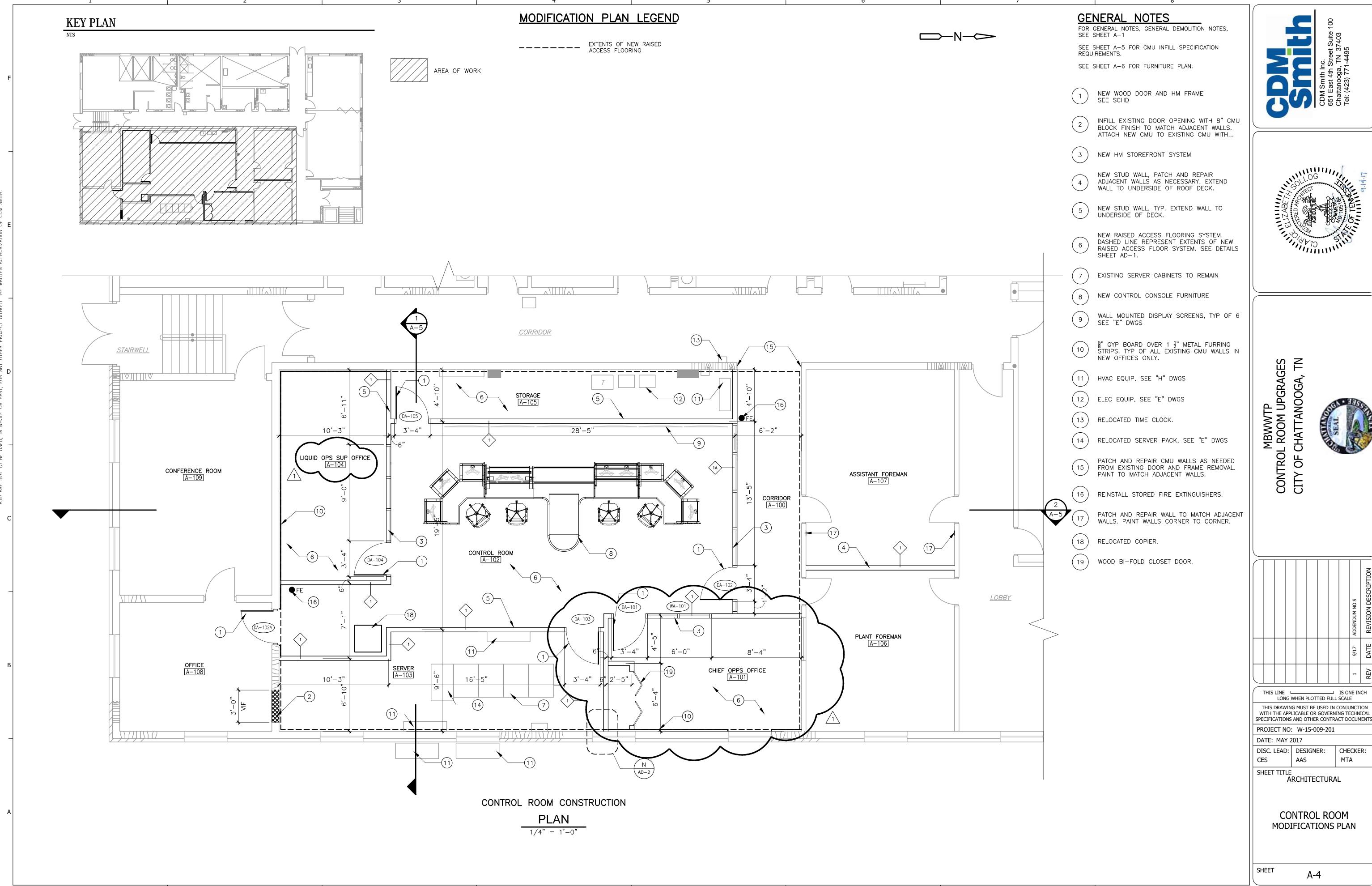
PROJECT NO: W-15-009-201 DATE: MAY 2017 DISC. LEAD: DESIGNER: CHECKER:

SHEET TITLE

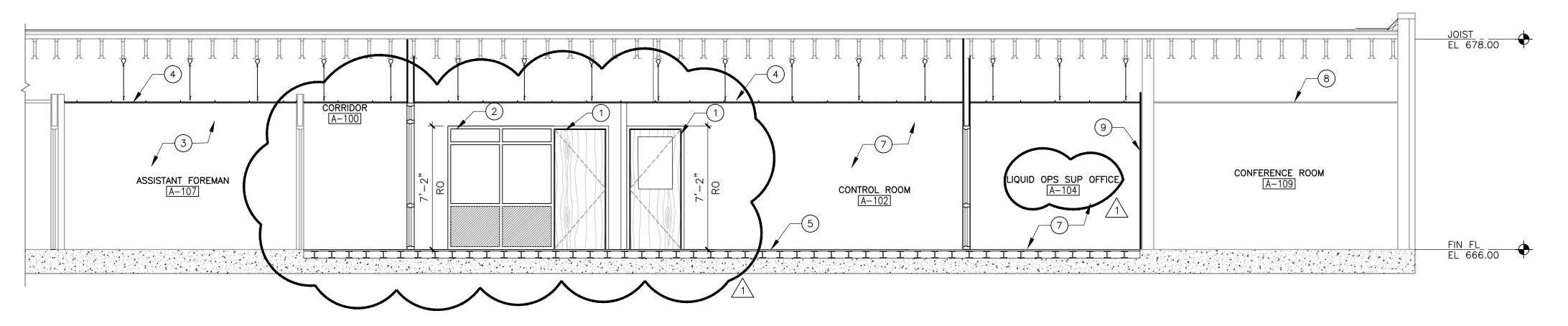
ARCHITECTURAL

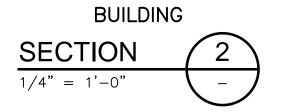
BUILDING CODE KEY DETERMINATIONS AND LIFE SAFETY PLAN

A-2



4 CONTROL ROOM BUILDING **SECTION**





GENERAL NOTES

FOR GENERAL NOTES, GENERAL DEMOLITION NOTES, SEE SHEET A-1

EQUIPMENT AND FURNITURE NOT SHOWN FOR CLARITY.

- NEW WOOD DOOR AND HM FRAME, SEE SCHD
- NEW HM STOREFRONT SYSTEM, SEE SCHD
- NEW STUD WALL, PATCH AND REPAIR ADJACENT WALLS AS NECESSARY
- NEW ACOUSTICAL TILE CEILING, TYP
- NEW RAISED ACCESS FLOORING SYSTEM, TYP
- CMU INFILLED OPENING. PATCH AND REPAIR ADJACENT WALLS AS NECESSARY
- PAINTED GYPSUM BOARD, TYP
- EXISTING ACOUSTICAL TILE CEILING TO REMAIN.
- PAINTED GYPSUM BOARD OVER METAL FURRING STRIPS ON EXISTING CMU WALL

MASONRY SPECIFICATION

1.01 MASONRY UNITS, GENERAL

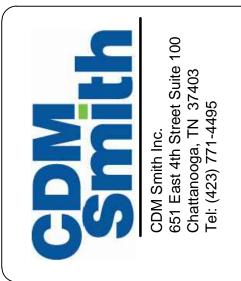
A. DEFECTIVE UNITS: REFERENCED MASONRY UNIT STANDARDS MAY ALLOW A CERTAIN PERCENTAGE OF UNITS TO CONTAIN CHIPS, CRACKS, OR OTHER DEFECTS EXCEEDING LIMITS STATED IN THE STANDARD. DO NOT USE UNITS WHERE SUCH DEFECTS WILL BE EXPOSED IN THE COMPLETED WORK.

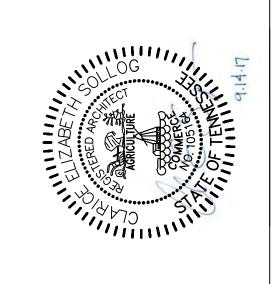
1.02 CONCRETE MASONRY UNITS (CMUS)

- A. CMU'S: ASTM C 90.
- 1. UNIT COMPRESSIVE STRENGTH: PROVIDE UNITS WITH MINIMUM AVERAGE NET-AREA COMPRESSIVE STRENGTH OF 2800 PSI.
- 2. DENSITY CLASSIFICATION: NORMAL WEIGHT, UNLESS OTHERWISE INDICATED.
- 3. SIZE (WIDTH): MANUFACTURED TO DIMENSIONS 3/8 INCH LESS THAN NOMINAL DIMENSIONS.
- A. HOLLOW LOAD BEARING UNITS: 8" X 8" X 16"
- 4. WATER ABSORPTION SHALL NOT EXCEED 10 LB /CUFT (AVERAGE OF 3 UNITS) WHEN TESTED IN ACCORDANCE WITH ASTM C140.
- 5. MOISTURE CONTENT AT TIME OF DELIVERY SHALL NOT EXCEED 35 PERCENT OF TOTAL ABSORPTION. UNITS SHALL BE AIR CURED IN STORAGE FOR NOT LESS THAN 28 DAYS BEFORE DELIVERY.

1.01 MORTAR AND GROUT MATERIALS

- A. PORTLAND CEMENT-LIME MIX: PACKAGED BLEND OF PORTLAND CEMENT COMPLYING WITH ASTM C 150, TYPE I OR TYPE III, AND HYDRATED LIME COMPLYING WITH ASTM C 207, TYPE S.
- B. AGGREGATE FOR MORTAR: ASTM C 144.
- C. AGGREGATE FOR GROUT: ASTM C 404.
- D. WATER: POTABLE.

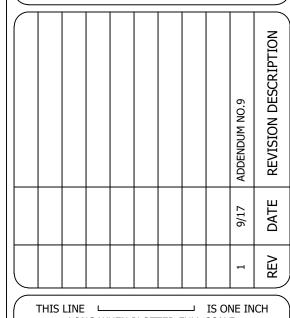




MBWWTP

A ROOM UPGRAGES

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LONG WHEN PLOTTED FULL SCALE THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

PROJECT NO: W-15-009-201 DATE: MAY 2017

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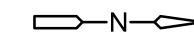
SHEET TITLE ARCHITECTURAL

> CONTROL ROOM **BUILDING SECTIONS**

A-5

FURNITURE SCHEDULE DESCRIPTION ITEM NO MODEL NO. 42" ROUND TABLE F-1 TS4WRND42 120 GUEST CHAIR F-2TS5AEBR2460 F-324" X 60" WORKSURFACE F-419 442A40V ADJUSTABLE DESK CHAIR TSFAEFR3060 F-530X 60" WORKSURFACE 5 TS5AES3072L 30" x 72" CREDENZA (LEFT HAND) F-6 F-7TS5AE0H72X 72" OVERHEAD STORAGE F-8 TS5AESCL2 STORAGE CABINET WITH LATERAL FILE DRAWERS TS5AETRE168 F-948" RECTANGULAR TABLE TOP 24" X 48" TABLE EXTENSION F-10 TS5AETST48

QUANTITIES, SIZES AND MODEL NUMBERS SHALL BE VERIFIED BY MANUFACTURERS REVIEW OF LAYOUT



CONSOLE SCHEDULE								
TEM NO.	QTY	MODEL NO.	DESCRIPTION					
C-1	2	PEWS48301	RECTANGULAR SIT/STAND WORKSURFACE					
C-2	2	17601568	CORNER WORKSURFACE, SIT/STAND OPTIONAL					
C-3	1	PPWS30721	PENINSULA WORKSURFACE					
C-4	4	_	MONITOR MOUNTS AND SUPPORTS					

CONSOLE BASIS OF DESIGN MANUFACTURER IS EATON. OR EQUAL PRODUCTS FROM ANOTHER MANUFACTURER CAN BE SUBMITTED DURING SHOP SUBMITTAL REVIEW. CONSOLE SHALL BE FROM A SINGLE MANUFACTURER AND COORDINATED WITH WORKSTATION REQUIREMENTS ON "I" DRAWINGS.

ONLY MAJOR CONSOLE COMPONENTS ARE IDENTIFIED FOR BASIS OF DESIGN. WALL PANELS, ACCESSORIES AND OTHER COMPONENTS TO BE PROVIDED IN ACCORDANCE

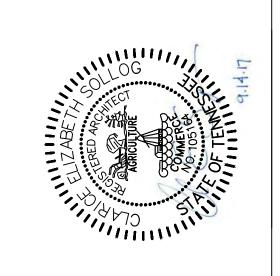
GENERAL NOTES

FOR GENERAL NOTES, GENERAL DEMOLITION NOTES, SEE SHEET A-1

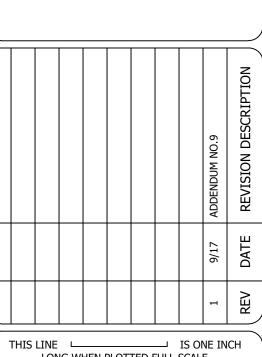
SEE SPECIFICATION 12 59 90 FOR CONTROL CONSOLE REQUIREMENTS

- RELOCATED COPIER.
- WALL MOUNTED DISPLAY SCREENS, TYP OF 6 SEE "E" DWGS.
- EXTENTS OF NEW RAISED ACCESS FLOOR.









LONG WHEN PLOTTED FULL SCALE THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS PROJECT NO: W-15-009-201

DATE: MAY 2017 DISC. LEAD: DESIGNER: CHECKER:

ARCHITECTURAL

CONTROL ROOM FURNITURE PLAN

A-6

ISSUED FOR BID

FURNITURE BASIS OF DESIGN MANUFACTURER IS STEELCASE. OR EQUAL PRODUCTS FROM ANOTHER MANUFACTURER CAN BE SUBMITTED DURING SHOP SUBMITTAL REVIEW. ALL FURNITURE SHALL BE FROM A SINGLE MANUFACTURER.	PANELS, ACCESSORIES AND OTHER COMPONENTS TO BE PROVIDED IN ACCORDANCE TO MANUFACTURER DESIGN REQUIREMENTS.
STAIRWELL CONFERENCE ROOM F 2	CORRIDOR
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	STORAGE [A-105] C 1 C 1 F 2 F 3 F 4 F 4 F 5 F 2 F 2 F 3 F 4 F 4 F 5 F 5 F 7 F 7 F 8 F 7 F 8 F 7 F 8 F 8 F 9 F 8 F 9 F 9 F 9 F 9 F 9 F 9
$\begin{array}{c} F \\ \hline 4 \\ \hline \end{array}$	ASSISTANT FOREMAN $ A = 100 $
$\frac{4}{4}$	CHIEF OPS OFFICE F 5
F 5 0 OFFICE A-108 SERVER A-103	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

CONTROL ROOM FURNITURE

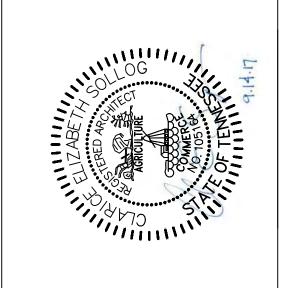
GENERAL NOTES

FOR GENERAL NOTES, GENERAL DEMOLITION NOTES, SEE SHEET A-1

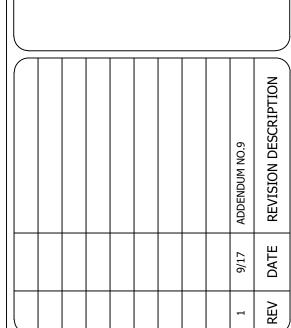
DIFFUSER, TYP. SEE "H" DWGS

LIGHT FIXTURE, TYP. SEE "E" DWGS

RETURN, TYP. SEE "H" DWGS



MBWWTP CONTROL ROOM UPGRAGES CITY OF CHATTANOOGA, TN



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PROJECT NO: W-15-009-201 DATE: MAY 2017

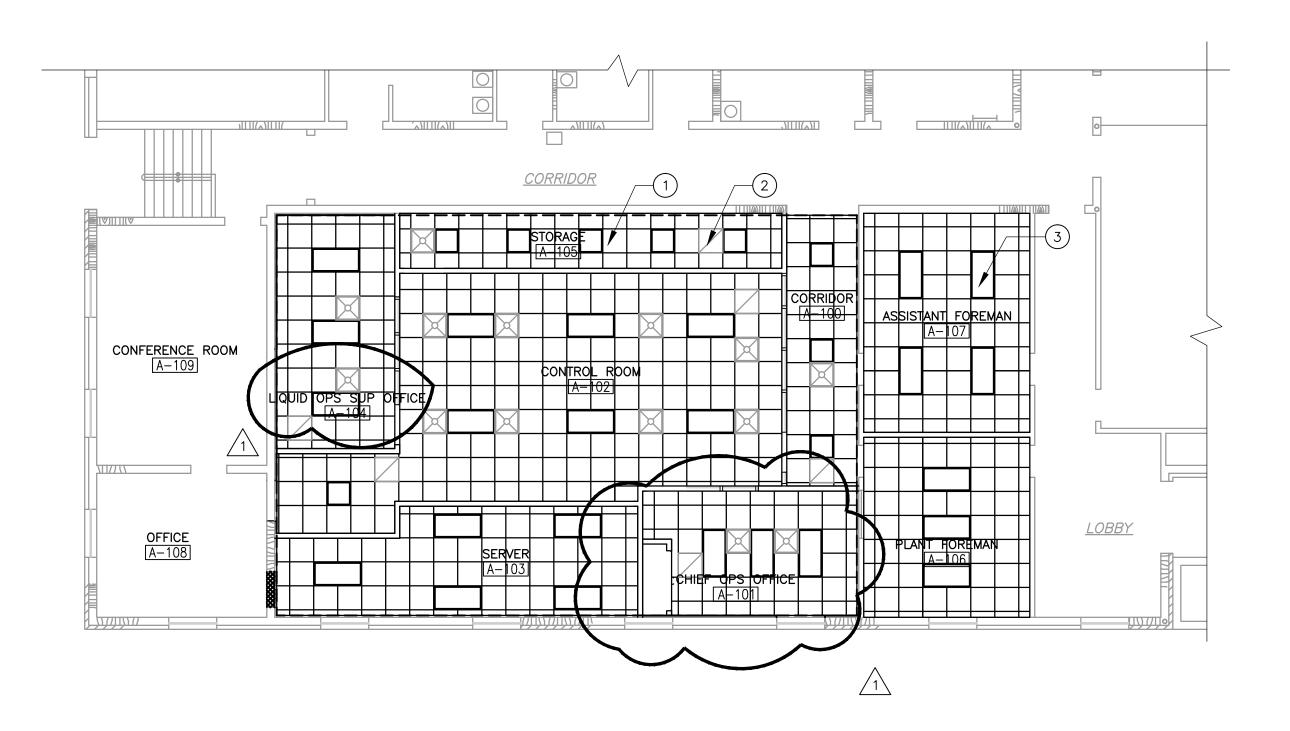
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SHEET TITLE ARCHITECTURAL

CONTROL ROOM REFLECTED CEILING PLAN AND FINSH FLOOR PLAN

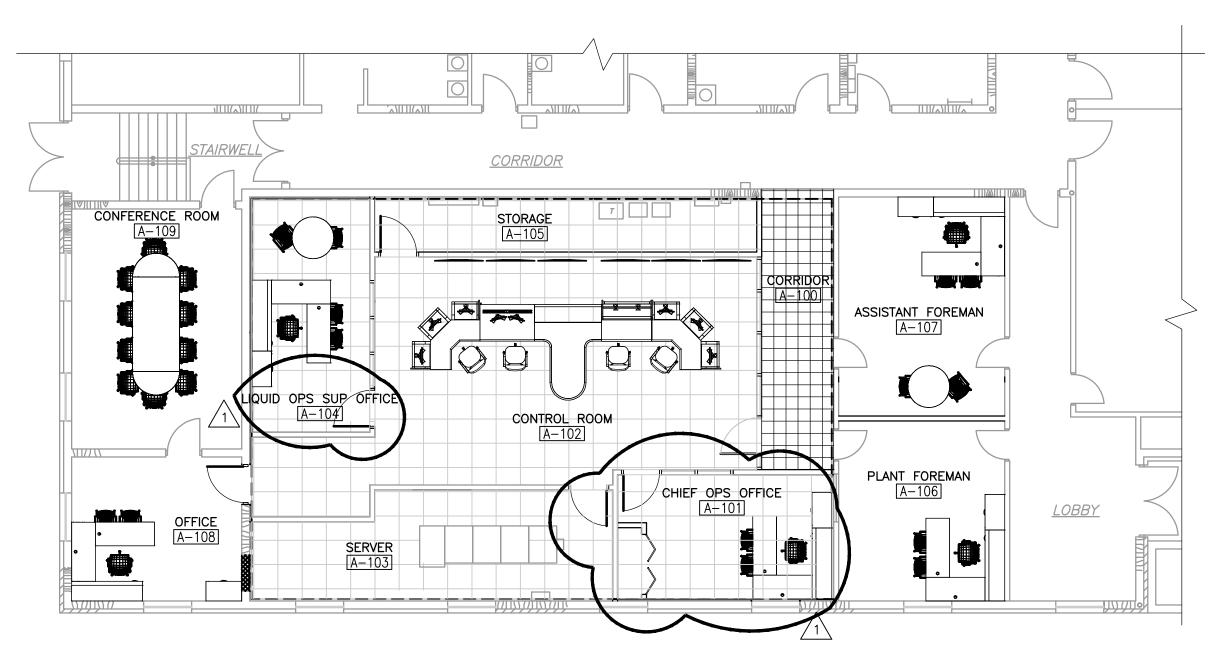
A-7

SHEET



CONTROL ROOM REFLECTED CEILING PLAN

1/4" = 1'-0"



NOTE: EXISTING FLOOR FINISH TO REMAIN IN ALL OTHER ROOMS. CONTRACTOR TO REPAIR OR REPLACE ANY EXISTING FINISHES DAMAGED DURING CONSTRUCTION.

CONTROL ROOM FINISH FLOOR

PLAN 1/4" = 1'-0"

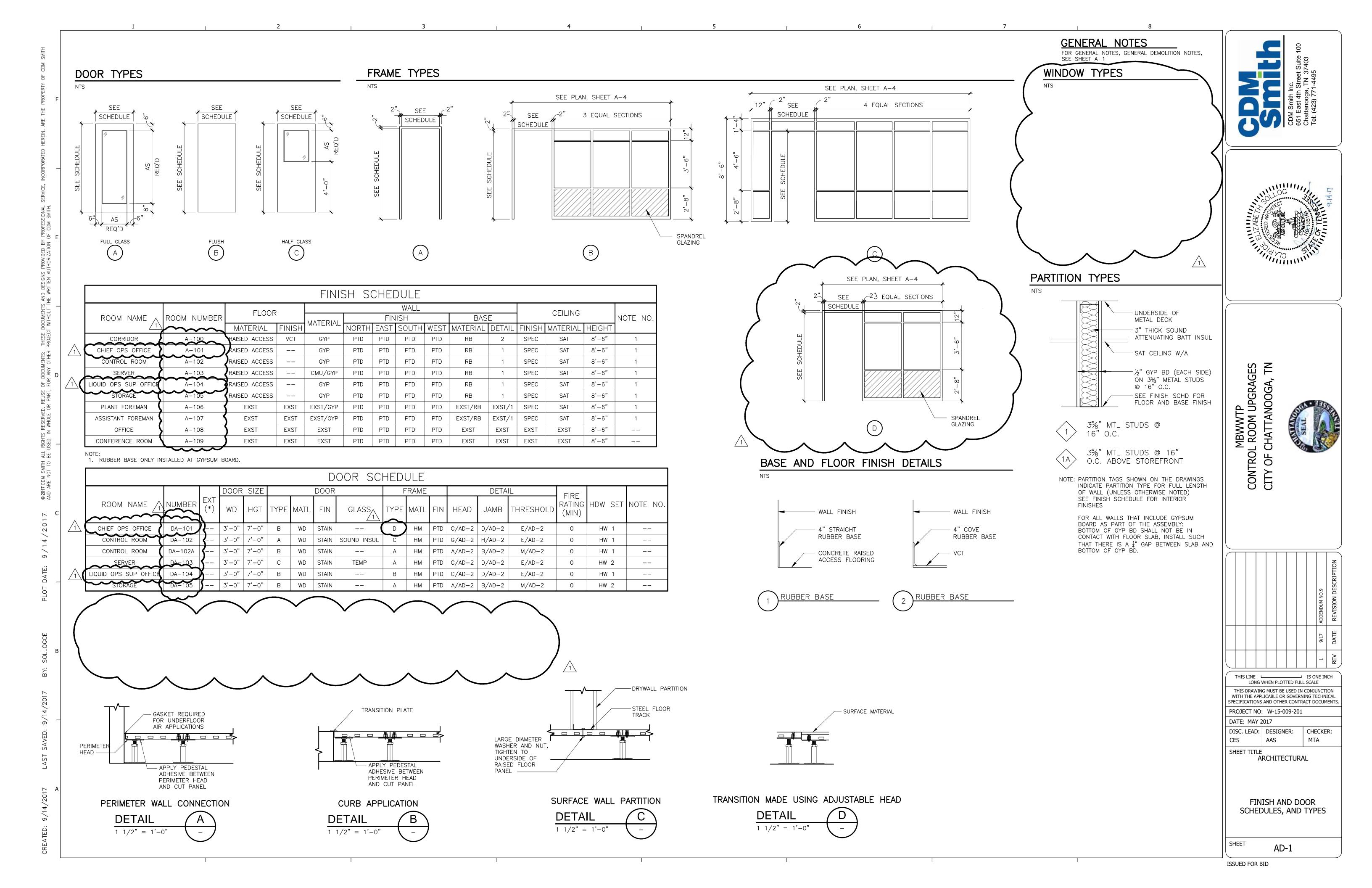
FLOOR FINISH LEGEND

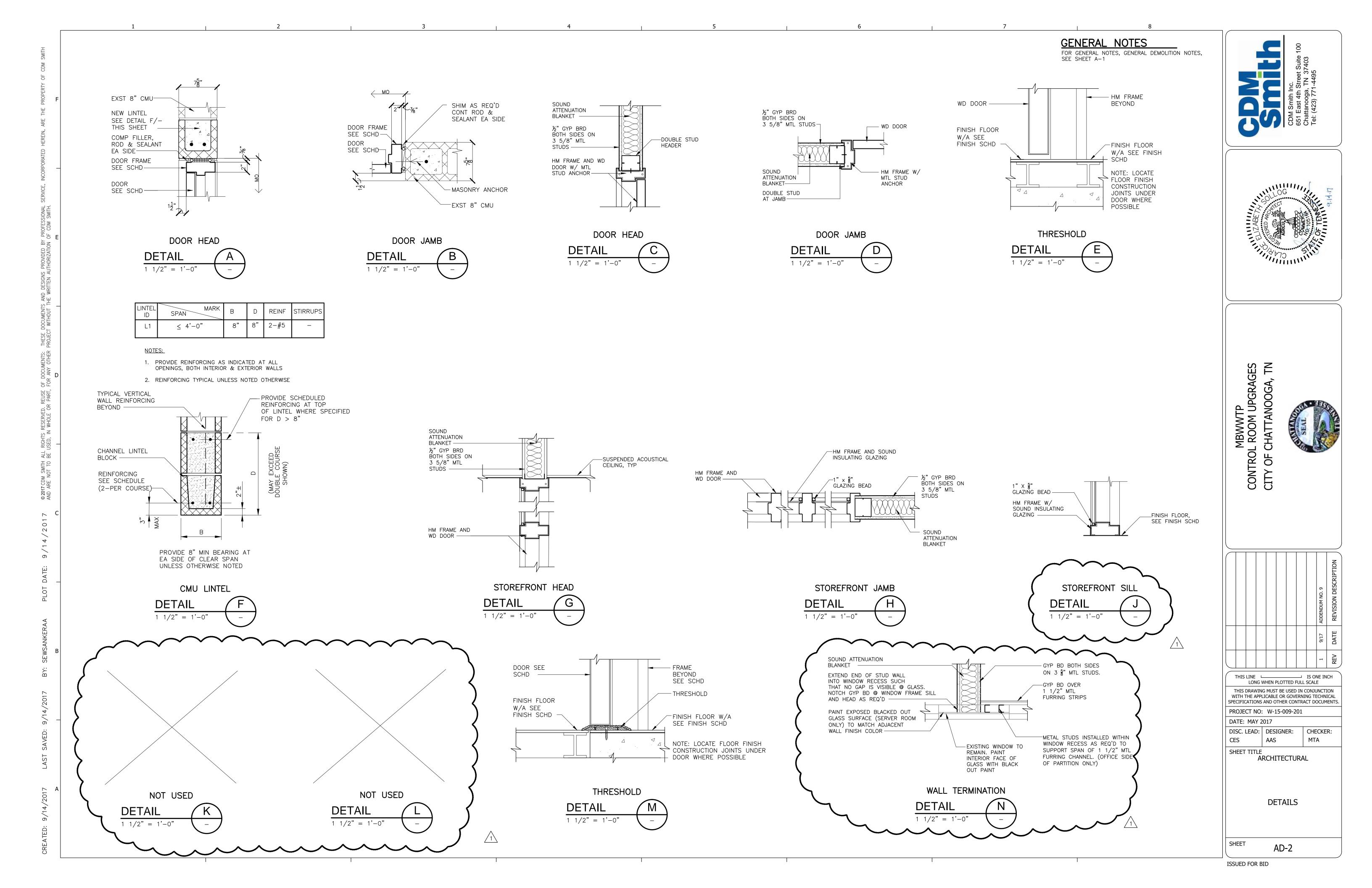
REFLECTED CEILING PLAN

24" X 24" SUSPENDED ACOUSTICAL CEILING

24" X 24" HONED CONCRETE RAISED ACCESS FLOORING PANELS

12" X 12" VCT FLOOR TILE OVER RAISED ACCESS FLOORING PANELS, MATCH EXISTING IN CORRIDOR





SERVER ROOM ENERGY CODE NOTES:

THIS BUILDING (SERVER ROOM) IS EXEMPT FROM THE REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE. CHAPTER 5, SECTION 501 OF THE INTERNATIONAL ENERGY CONSERVATION CODE DEFERS TO ASHRAE/IESNA STANDARD 90.1 - ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS. FOR COMMERCIAL BUILDINGS, THE APPLICABLE EXEMPTIONS FROM ASHRAE 90.1 ARE PARAGRAPHS 2.3.c AND 2.5:

2.3.c "THE PROVISIONS OF THIS STANDARD DO NOT APPLY TO EQUIPMENT AND PORTIONS OF BUILDING SYSTEMS THAT USE ENERGY PRIMARILY TO PROVIDE FOR INDUSTRIAL, MANUFACTURING, OR COMMERCIAL PROCESSING."

2.5 "THIS STANDARD SHALL NOT BE USED TO CIRCUMVENT ANY SAFETY, HEALTH, OR ENVIRONMENTAL REQUIREMENTS."

THE SERVER ROOM IS NORMALLY AN UNOCCUPIED AREA ON A WASTEWATER TREATMENT PLANT SITE THAT HOUSES ELECTRICAL EQUIPMENT ESSENTIAL TO THE WATER TREATMENT PROCESS. THE SERVER ROOM COOLING EQUIPMENT PROVIDES SPACE CONDITIONING FOR THE EQUIPMENT ONLY.



CITY OF CHATT

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K. BOWEN

PROJECT NO: W-15-009-201 DATE: MAY 2017

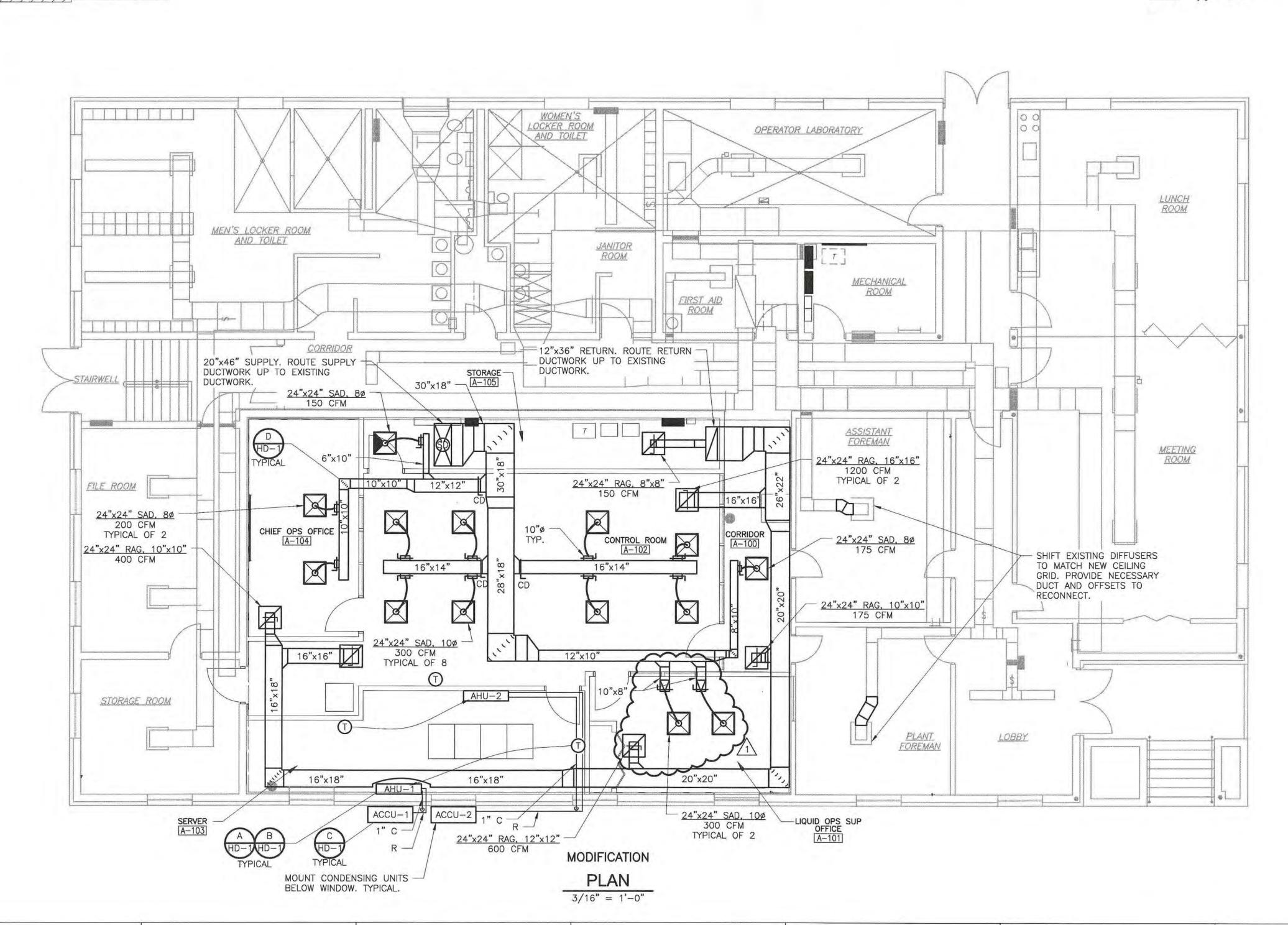
DISC. LEAD: DESIGNER: CHECKER: J. MEINIG B. BASIL

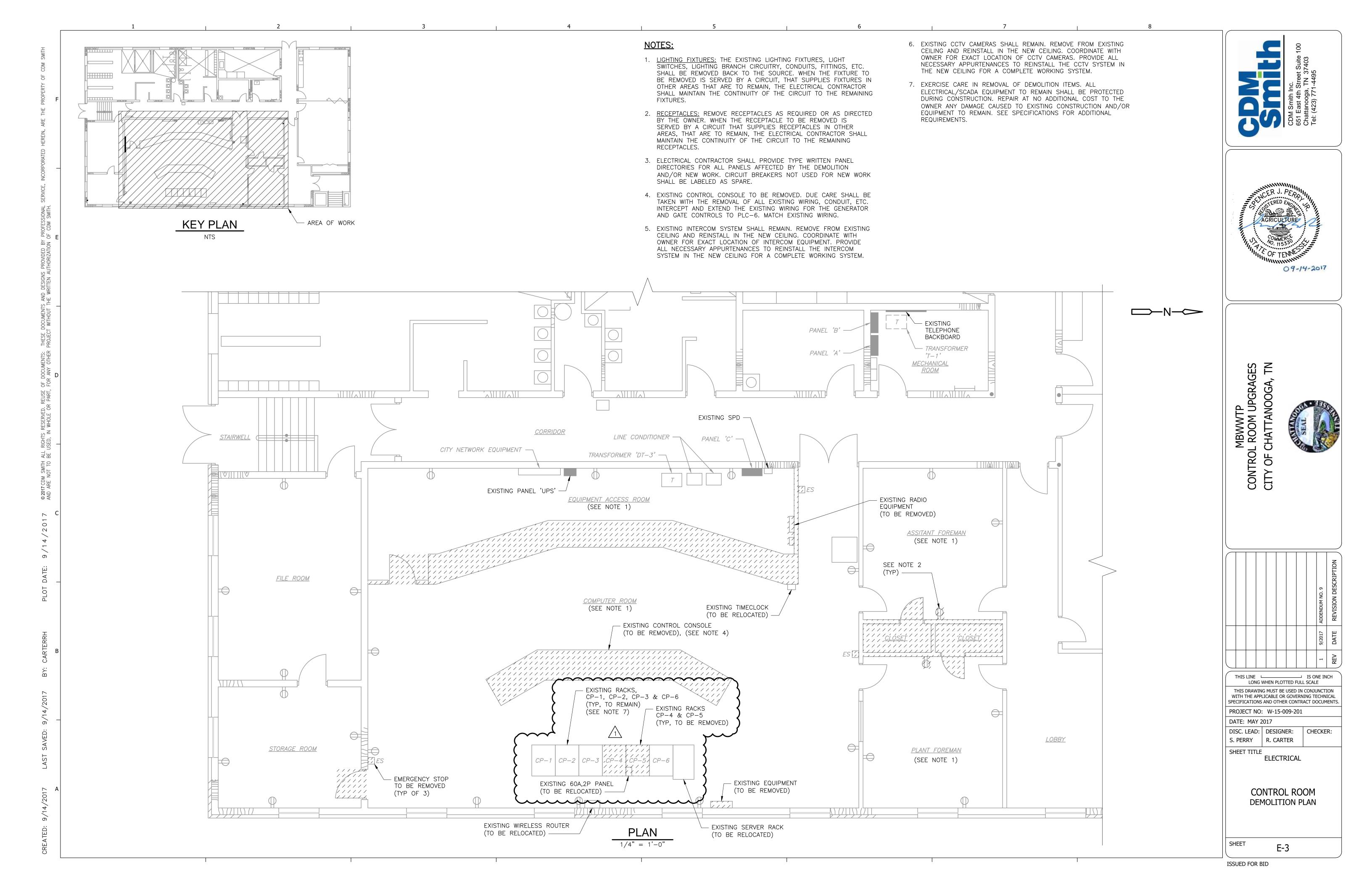
SHEET TITLE **HVAC**

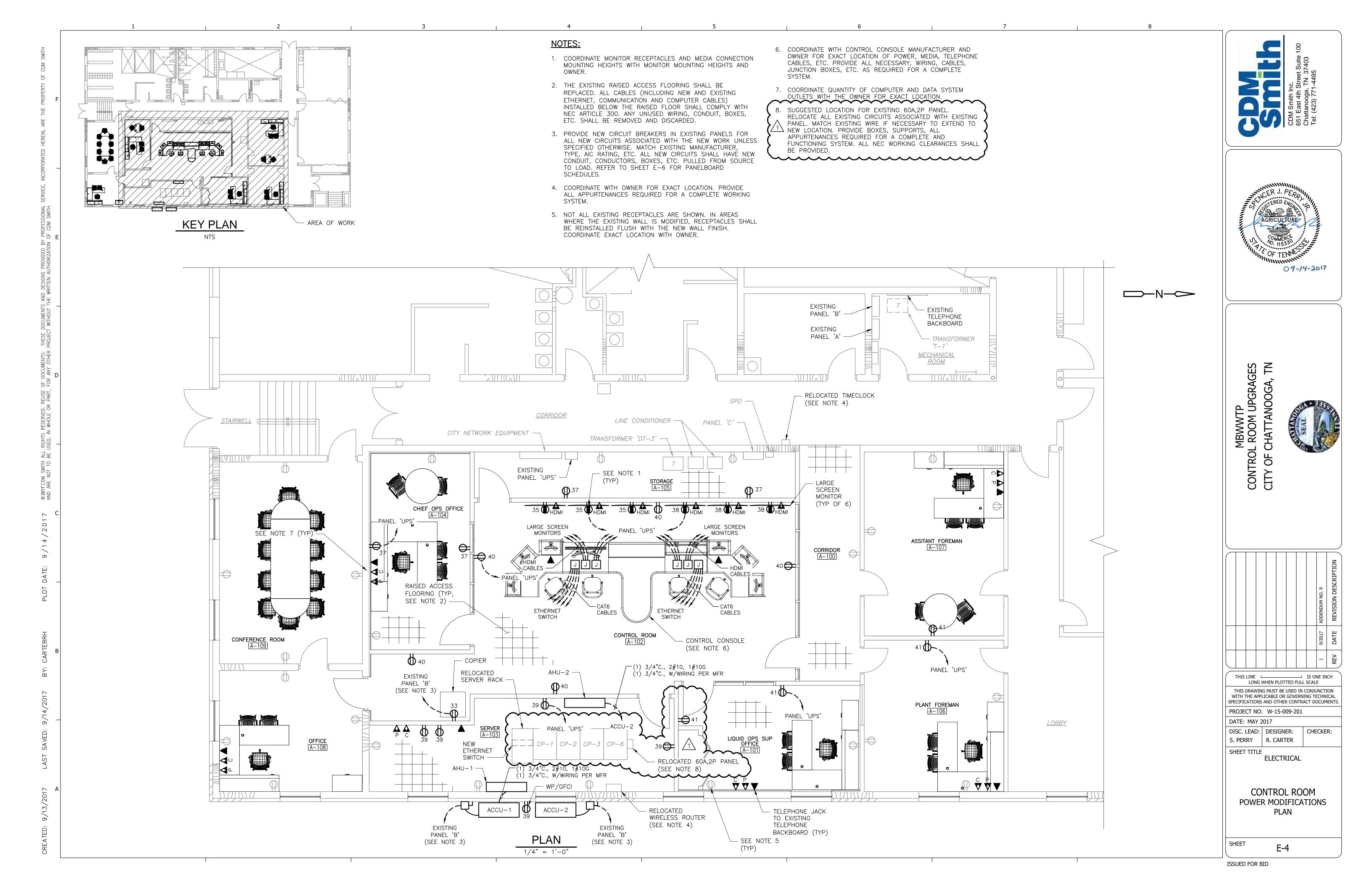
> CONTROL ROOM MODIFICATION PLAN

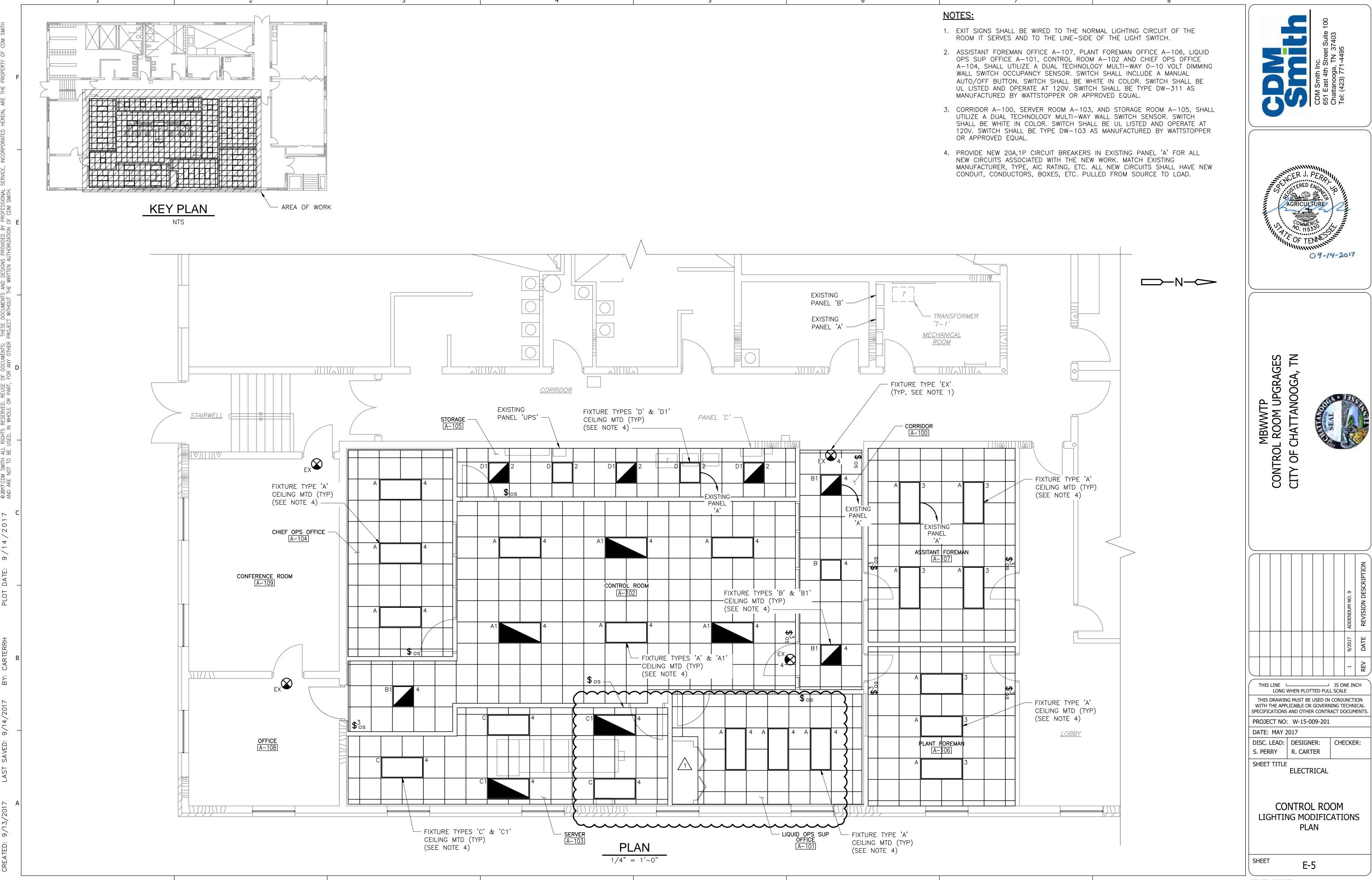
> > H-3

SHEET











8/15/2017

Moccasin Bend WWTP

O&C SCADA Upgrade General Requirements

[RMJ Consulting LLC]
Authored by: Ron Hinkle II

GENERAL

- Purpose
 - a. The purpose of this scope is to provide the general requirements for the Proficy Machine Edition SCADA conversion to Wonderware Intouch software for the O&C SCADA upgrade.
 - b. This document will provide a detailed changes that are required for each screen currently operating.
 - c. This document will provide a detail of the new screens required.
- Appendix: 1-36
 - o Sample pictures for screens
 - o Customer to provide aerial pictures and equipment pictures to be used
 - Site pictures for Pump Stations
 - o Report Examples
 - The examples are currently filled in by operator manually and all data entered does not come from the SCADA collection. Once contractor is selected it will be their responsibility to work with the customer to define in detail.

1. Scope

- 1.1. All new screen conversions must be converted utilizing the following criteria.
 - 1.1.1. Background colors shall be dark blue in color
 - 1.1.2. All screens shall have the name at the top of each screen, location to be consistent with all screens
 - 1.1.3. Screen resolution must be capable for 1920/1080 and 1900/1600 without rescale of screen objects.
 - 1.1.4. All graphics must be updated to actual pictures of areas and devices where possible.
 - 1.1.5. All overview Screens must have animation flow, movement etc...
 - 1.1.6. All devices on screens must be animated using the following colors

1.1.6.1.	Condition- Running/On/Open	Green
1.1.6.2.	Auto/Ready	White
1.1.6.3.	Stopped/Off/Closed	Red
1.1.6.4.	Fail/Alarm	Amber
1.1.6.5.	Generic Status	White

- 1.1.7. All Motors/VFDs/Pumps to have Device ID, Rate, Hrs. on device where applicable
- 1.1.8. All Valve to have Device ID
- 1.1.9. All piping animated to show flow where applicable
- 1.1.10. All PID pop up menu/screens shall be password protected
- 1.1.11. All text to be same color scheme

Plant Operations: Proficy SCADA

- 2. Mixed Liquor Flow Distribution
 - 2.1. Change clarifier graphics
 - 2.2. Add animation movement to indicate Rake position (left/right) (up-down)
 - 2.3. Remove Gates in and out of Mixed Liquor Channel
 - 2.4. Remove Clear/Lead/Follow buttons
 - 2.5. Add color animation to flow meters
 - 2.6. Add A/B labels on Clarifiers 5-10
 - 2.7. All valves to animated using color scheme
 - 2.8. Remove Oxy. Tank Inf. Flow navigation button
 - 2.9. Flow Meters to be animated Green when flow is above 5% else Red
 - 2.10. Change Chlor. Cont. Basin 1&2 navigation button to Contact Tanks 1&2
 - 2.11. Add navigation button for Contact Tank #7
 - 2.12. Remove text Bypass from Primary
 - 2.13. Remove valve buttons on Clarifiers 11-14
 - 2.14. Add navigation button to New Clarifiers 15&16
- 3. Influent Relief PS
 - 3.1.1.Remove Screens1 &2
 - 3.1.2. Remove all controls for Screens 1&2
 - 3.1.3. Remove Sequence selector switch
 - 3.1.4. Remove Lift Station selector switch
 - 3.1.5. Add Level Set Point field for Pumps 4&5
 - 3.1.6. Remove Start/Stop Level for Pumps 4&5
- 4. Main Influent PS
 - 4.1. Remove Sequence selector switch
 - 4.2. Change label on Level Control Bubblers/ Level Control
 - 4.2.1. Change A/B Bubbler/Radar
 - 4.2.2. Remove A/B from level indicators
 - 4.2.3. Change Bubbler level indicator to Radar
- 5. Det 1-2/Fine Screen 1-5
 - 5.1. Remove all MOG gates with control button
 - 5.2. Remove FS-1 Fine Screen
 - 5.3. Remove FS-2 Fine Screen
 - 5.4. Remove Comminutor 6
 - 5.5. Remove pumps in Detritor 1 and & 2
 - 5.6. Animate rotation of Detritor 1 Clockwise movement
 - 5.7. Animate rotation of Detritor 2 Counter-Clockwise movement
 - 5.8. Add test to Detritor Diverter Box
 - 5.9. Remove AT060 with text Screen Room Air Percent Level
 - 5.10. Add animation to Detritor Diverter Box Gates
- 6. Det 3/Fine Screens 5-6

- 6.1. Animate rotation of Detritor 3 Clockwise movement
- 6.2. Remove pump from Detritor 3
- 6.3. Remove FS-5/FS-6 and all control buttons
- 6.4. Remove Screen
- 6.5. Remove lines to Grit & Screenings
- 6.6. Remove LC1855 level indicator
- 6.7. Remove SC1851 % indicator
- 6.8. Remove influent WW PH indicator
- 6.9. Remove influent WW temp indicator
- 6.10. Remove influent WW Orp indicator
- 6.11.
- 7. Primary Clarifiers 1-8
 - 7.1. Remove Plant Outfall navigation button
 - 7.2. Remove Chlor. Cont. Tanks 1&2 navigation button
 - 7.2.1.Remove Gate and all lines to buttons
 - 7.3. New graphics for clarifiers required
 - 7.4. Add animation for Sludge Rake movement and on/off status
 - 7.5. Add animation for Scum Rake movement and on/off status
 - 7.6. Add additional indicators
 - 7.6.1. PH/Low water Press/Low Sump Pump
 - 7.6.2. Recirculation Pump for each Fan
 - 7.6.3. Alarms for each Clarifiers 4ea
 - 7.7. Add separate Alarm screen for viewing these alarms
 - 7.7.1. Add Alarm navigation button
 - 7.7.2. Animate Alarm Navigation button blinking when alarm present
- 8. Add new Clarifier Screen for 15 & 16
- 9. Primary Sludge Pump Station No.1
 - 9.1. Remove Air Blowers 1&2 with all lines to Air Influent Channel
 - 9.2. Remove XT0129 flow indicator/ Meter graphic and lines/piping
 - 9.3. Remove Primary Scum Wet well
 - 9.4. Remove Primary Clarifier navigation button
 - 9.5. Remove LT0128 indicator
 - 9.6. Remove Primary Sludge PS 1 Flow indicator (to Digesters) flow
 - 9.7. Add Primary Sludge PS 2 to this screen if possible
- 10. Primary Sludge Pump Station No.2
 - 10.1. Remove Primary Clarifiers navigation button
 - 10.2. Remove LT0158 level indicator
 - 10.3. Remove Primary Scum Pumps with piping
 - 10.4. Remove Anaerobic Digester navigation button
 - 10.4.1. Remove vertical piping to Thick Sludge Pmp Stn 1
 - 10.5. Remove Primary Influent Sampler pump and piping
 - 10.6. Remove Grit Sampler

10.7. Remove Effluent Sampler

11. Blower Building

- 11.1. Replace graphics to represent actual equipment
- 11.2. Remove Pri. Clarifier Air Flow FT0367 indicator with text
- 11.3. Remove Sec. Clarifier 1-4 Air Flow FT0363 indicator with text
- 11.4. Remove Sec. Clarifier 5-10 Air Flow FT0366 indicator with text
- 11.5. Remove INST. Air Low Pressure (visibility) text
- 11.6. Remove EQ1 Air Dist Control valve graphic with text
- 11.7. Remove EQ2 Air Dist Control valve graphic with text
- 11.8. Remove Switch over Valve 1 graphic with text
- 11.9. Remove Switch over Valve 2 graphic with text
- 11.10. Remove Inst. Air Comp 1 graphic with text
- 11.11. Remove Inst. Air Comp 2 graphic with text
- 11.12. Remove indicators
 - 11.12.1. FT0335A, PT0336, AT0344, FT0335B, PT0338, AT0345

12. EQ Basins

- 12.1. Remove the following indicators
 - 12.1.1. AT1537, AT0344, AT0345
- 12.2. Add label to #1 EQ Inlet Valve
- 12.3. Add label to #2 EQ Inlet Valve
- 12.4. Add label to Bypass Valve

13. EQ Pump Station

- 13.1. MOG 8 can deliver to Contact Tank 6 or MOG 3
 - 13.1.1. Correct piping to indicate flow
 - 13.1.1.1. Animate flow
- 13.2. Remove Sample Pumps #1- #2
- 13.3. Remove E.Q Basin Eff pH indicator
- 13.4. Change text on Oxygen Tank Influent Flow/ UNOX Tank Influent Flow
- 13.5. Label Distribution Box
- 13.6. Remove Mixed Liquor Channel LVL High indicator

14. Recycle & Drain PS

- 14.1. Change navigation button Detritor & Fine Screens/ Primary Clarifiers
 - 14.1.1. Correct navigation source
 - 14.1.2. Add 3rd Pump to Wet well
 - 14.1.3. Add 3 Flow meter indicators
 - 14.1.4. Change label Drain Pump Station/ West Recycled Pump Station

15. OXY Tank Influent Flow Distribution

15.1. Remove Screen

- 16. Oxygen Plant
 - 16.1. Remove 2nd Pump on Main Air Compressors 1 & 2
 - 16.1.1. Remove all piping and alarm text
 - 16.2. Add label to Oil Pump at Product Oxygen
 - 16.3. Change Lox Tank 1 & 2 graphic to represent vertical tanks
- 17. OXY Tank 1
 - 17.1. Add animation to WW/RAS valves
 - 17.2. Remove Mix Liquor Pump Station navigation button
 - 17.3. Change text on navigation buttons
 - 17.3.1. Oxy tank No.1/ UNOX Tank No.1

17.3.1.1. 2-4 repeat

- 18. OXY Tank 2
 - 18.1. Add animation to WW/RAS valves
 - 18.2. Remove Mix Liquor Pump Station navigation button
 - 18.3. Change text on navigation buttons
 - 18.3.1. Oxy tank No.1/ UNOX Tank No.1

18.3.1.1. 2-4 repeat

- 19. OXY Tank 3
 - 19.1. Add animation to WW/RAS valves
 - 19.2. Remove Mix Liquor Pump Station navigation button
 - 19.3. Change text on navigation buttons
 - 19.3.1. Oxy tank No.1/ UNOX Tank No.1

19.3.1.1. 2-4 repeat

- 20. OXY Tank 4
 - 20.1. Add animation to WW/RAS valves
 - 20.2. Remove Mix Liquor Pump Station navigation button
 - 20.3. Change text on navigation buttons
 - 20.3.1. Oxy tank No.1/ UNOX Tank No.1

20.3.1.1. 2-4 repeat

- 21. Mixed Liquor PS
 - 21.1. Remove Screen
- 22. Return Sludge Flow Distribution
 - 22.1. Animate all Flow Meters
 - 22.2. Remove Buttons
 - 22.2.1. Clear, Indiv.,
 - 22.2.2. 11-14 RAS Valve buttons
 - 22.3. New graphics for clarifiers required
 - 22.4. Add animation for Sludge Rake movement and on/off status
 - 22.5. Add animation for Scum Rake movement and on/off status

23. Return Sludge PS

- 23.1. Remove RAS to EQ Basina navigation button
 - 23.1.1. Remove Valve and FT0914 indicator
 - 23.1.2. Remove Flow SP indicator
 - 23.1.3. Remove % indicator
 - 23.1.3.1. FT1119A, FT1119B, FT1119C and FT1119D
 - 23.1.4. Remove Density indicator DT0908
 - 23.1.5. Remove Flow SP indicator
 - 23.1.6. Remove WAS pump 1& 2 manual control button
 - 23.1.7. Add animation to Flow Meters
 - 23.1.8. Add animation to control valves
 - 23.1.9. Change label Oxygenation Tanks/ UNOX Tanks
 - 23.1.10. Change UNOX tank graphics

24. Chlorination Sys

- 24.1. Remove Chlorine Cylinders graphics
- 24.2. Remove Vaporizers
- 24.3. Remove Chlorinators piping all graphics
- 24.4. Remove all navigation buttons
- 24.5. Move Clarifier Flow Legend to next screen if possible
 - 24.5.1. If move of legend is possible remove screen

25. Chlor Cont Basin 1-2

- 25.1. Remove Sample Pumps text
 - 25.1.1. Remove Tank #1 pump
 - 25.1.2. Remove piping and Analyzer text
 - 25.1.3. Remove Tank #2 pump
 - 25.1.4. Remove piping and Analyzer text
- 25.2. Remove Injector Pumps 1-3 and all piping
- 25.3. Remove Storage Tank graphics and piping
- 25.4. Remove Traveling Screen graphic
- 25.5. Remove CI Contact Tank 1 graphic
- 25.6. Remove CI Contact Tank 2 graphic
- 25.7. Remove navigation button Secondary Clarifiers
- 25.8. Remove navigation button Chlor Cont Basin 3-4
- 25.9. Remove FT1347B Flow meter and indicator
- 25.10. Add Secondary Clarifier 1&2 flow to Wet well
- 25.11. Add Secondary Clarifier 3&4 flow to Wet well
- 25.12. Add Contact Tank 1&2 flow to Wet well
- 25.13. Change piping flow to indicate corrected flow
- 25.14. Add label from Plant Water pumps to (Plant)

26. Chlor Cont Basin 3-4

- 26.1. Remove Sample Pumps text
 - 26.1.1. Remove Contact Tanks pump and all piping/text
 - 26.1.2. Remove Plant Effluent pump and all piping/text
- 26.2. Remove Traveling Screen and all piping
- 26.3. Remove Injector Pump and all piping
- 26.4. Remove Plant effluent from 3&4 indicator
- 26.5. Change label Effluent to Tennessee River/ Outfall
- 26.6. Add/Move Gate to CI Contact Tank 4
 - 26.6.1. Animate gate open/close
- 26.7. Add/Move gate to CI Contact Tank 3
 - 26.7.1. Animate gate open/close
- 27. Chlor Cont Basin 5-6
 - 27.1. Remove Plant Effluent Sample Pump
 - 27.1.1. Remove indicator AT2334
 - 27.2. Change CCB5 graphic
 - 27.3. Add label from MOG-B2 to Plant Effluent System
- 28. Plant Effluent
 - 28.1. Remove Sample PumpM0938
 - 28.2. Remove AT0942 indicator
 - 28.3. Remove AT0943 indicator
 - 28.4. Remove AT0249 indicator
 - 28.5. Change text on navigation button Wet Weather System/ Contact Tank #6
 - 28.5.1. Change screen source
 - 28.6. Change text on navigation button Chlorine Contact Tank/ Contact Tank #5
 - 28.6.1. Change screen source
 - 28.7. Remove Control Weir graphic and text
 - 28.7.1. Add label Diversion Box
 - 28.8. Add % to MOG-4 gate position
 - 28.9. Remove Sample Pump M1943
 - 28.10. Remove AT1943 Indicator
 - 28.11. Remove Sample Pump M2350
 - 28.12. Remove Dissolved O2 indicator
 - 28.13. Remove AT2354 NH3 indicator
 - 28.14. Change Turbidity AT2353 label/ Plant Eff. TSS Outfall #2
 - 28.15. Change Outfall #1 Valve graphic to manual valve symbol
 - 28.15.1. On bottom of tank
 - 28.16. Change Outfall 1 & 2 Tank graphics
 - 28.17. Animate level in Outfall 1 & 2 tanks

- 29. WW Grit Basins
 - 29.1. Change entire screen graphics to represent actual layout and flow (see plant)
- 30. WW Clarifiers/Sludge PS
 - 30.1. Change screen to clarifier type with rakes on/off indicators
 - 30.2. Add animation to Grinder Pumps
 - 30.3. Remove Sequence selector switch
 - 30.4. Remove control buttons
 - 30.4.1. Clear, Indiv. All locations
 - 30.5. Remove Clarifiers Required/Online text and I/O field
 - 30.5.1. Remove all text in this area
 - 30.6. Remove Chlorine Injector 1& 2 navigation buttons
 - 30.6.1. Remove all control buttons and piping
 - 30.7. Remove Chlorine Injection Box
 - 30.8. Remove LT1921 Indicator
 - 30.9. Remove LT1922 Indicator
 - 30.10. Remove LT1923 Indicator
 - 30.11. Remove visibility animation from Grinder
- 31. WW Coagulant
 - 31.1. Remove Coagulant Pump Speed Control box and all I/O fields
 - 31.2. Add animation to Compressor 1 & 2
 - 31.3. Remove Coagulant Pumps
 - 31.4. Change label Coagulant Tank/ Chemical Tank
 - 31.5. Remove FT2250 indicator
 - 31.5.1. Remove indicator MGD adjacent
- 32. Wet Weather Program Overview Page 1
 - 32.1. Change entire design
 - 32.1.1. Need to add graphical pic to represent actual equipment
- 33. Overview
 - 33.1. Remove Influent AT9001 indicator
 - 33.2. Remove Influent ORP AT0041 indicator
 - 33.3. Remove Effluent AT0942 indicator
 - 33.4. Remove Sec Inf AT0372 indicator
 - 33.5. Remove Total Flow (Hardware) FY0256C indicator
 - 33.6. Change label Digester indicator/ Thickener Station 1
 - 33.7. Remove Density DT0135 indicator
 - 33.8. Remove Density DT0165 indicator
 - 33.9. Remove Wet well LT1459 indicator
 - 33.10. Remove entire Blend Tank Level graphics and indicators
 - 33.11. Add Sludge Storage Tank with level indicators
 - 33.12. Remove Mixed Liquor AT0943 indicator

- 33.13. Remove Chlorine Residuals graphics and indicators
- 33.14. Suspended Solids
 - 33.14.1. Add new indicator field for Tank 2
 - 33.14.2. Keep indicator field for Tank 1
 - 33.14.3. Add indicator for Tank 5
 - 33.14.4. Add indicator for Tank 6
- 33.15. Add animation to all valves
- 34. Electrical Power Distribution
 - 34.1. No change
- 35. PLC Diagnostics
 - 35.1. No change
- 36. Flow Totals
 - 36.1. No change
- 37. Network Diagnostics
 - 37.1. Change graphics to show correct flow and connections
 - 37.2. Add Fiber Ring for Gigabit and 100 Base with device locations
- 38. Disinfection System
 - 38.1. Update Tanks and Pump graphics
- 39. Thickened Sludge PS1
 - 39.1. Change screen name Thickener Station 1
 - 39.2. Change Thickener graphics, replace with real image with animation
 - 39.3. Animate Flow Meters
 - 39.4. Animate flow
 - 39.5. Remove LT3105 indicator
- 40. Thickened Sludge PS2
 - 40.1. Change screen name Thickener Station 2
 - 40.2. Change Thickener graphics, replace with real image with animation
 - 40.3. Animate Flow Meters
 - 40.4. Animate flow
- 41. Sludge Blending
 - 41.1. No change
- 42. Thermophilic Digesters
 - 42.1. No change
- 43. Mesophilic Digesters
 - 43.1. No change
- 44. Digester Water System
 - 44.1. No Change
- 45. Water Heating/Cooling
 - 45.1. No change
- 46. Gas System
 - 46.1. Remove BioGas Valve Control graphic and text
 - 46.2. Remove Gas Scrubber graphic, piping and text

- 47. DB/TSP1&2 Misc. Equip
 - 47.1. Remove control buttons for Drain Pumps
 - 47.2. Remove Gas Scrubber text
 - 47.2.1. Remove H2S AE3530A indicator
 - 47.2.2. Remove Combustible AE3530B indicator
 - 47.2.3. Remove NaOH, NaOCI tank graphics with indicators
- 48. Filter Press Sludge Blend
 - 48.1. Flow Totals Train 1
 - 48.1.1. Remove Sludge text and I/O (tons) field
 - 48.2. Flow Totals Train 2
 - 48.2.1. Remove Sludge text and I/O (tons) field
- 49. Sludge Storage Tank
 - 49.1. Remove Blending Tanks graphic and piping
 - 49.2. Remove Decant MOVs graphic
- 50. C2 Sludge Auxiliary
 - 50.1. Animate Air Compressors on/off
- 51. C2 Neat Polymer
 - 51.1. Change Main Neat Storage Tank graphic
 - 51.2. Add additional Neat Storage Tank with Recirculation Pump
 - 51.3. Animate new tank and pump
 - 51.4. Add piping for new tank and pump
- 52. C2 Dry Polymer
 - 52.1. Remove screen
- 53. Polymer Mix Tanks
 - 53.1. Change tank graphics
- 54. Polymer Feed Pumps
 - 54.1. Change graphics
 - 54.1.1. Add picture graphic with animation for pumps
- 55. C2 Sludge Feed Pumps
 - 55.1. Add Flow Meters to Water Supply
- 56. Centrifuge Overview
 - 56.1. Centrifuge 1
 - 56.1.1. Remove Central Streaming Current indicator
 - 56.2. Centrifuge 2
 - 56.2.1. Remove Central Streaming Current indicator
- 57. C1 Centrifuge Screen
 - 57.1. Change Centrifuge graphic
 - 57.2. Remove Oil Cooler System graphics
 - 57.3. Remove Centrifuge One System Status & Control
 - 57.3.1. Remove all graphics and text
 - 57.4. Remove Centrate Streaming Current indicator and text
- 58. C2 Centrifuge Screen

- 58.1. Change Centrifuge graphic
- 58.2. Remove Oil Cooler System graphics
- 58.3. Remove Centrifuge One System Status & Control
 - 58.3.1. Remove all graphics and text
- 58.4. Remove Centrate Streaming Current indicator and text
- 59. Old Centrifuge
 - 59.1. Remove screen
- 60. C2 Lime Biosolids
 - 60.1. Change tank graphics to real picture with animation
 - 60.2. Animate Lime Silo discharge gate
 - 60.2.1. Add Level field I/O indicator
 - 60.3. Change screen name C2 Lime Biosolids/ Lime Biosolids
- 61. FeCI & Acid
 - 61.1. No Change
- 62. Lime Slurry
 - 62.1. No Change
- 63. Auxiliary Systems
 - 63.1. Reverse all compressor location on screen and correct piping flow
 - 63.2. Animate all devices
- 64. Overview
 - 64.1. No change
- 65. Wet Weather System Overview
 - 65.1. Change all graphics to real picture and animate
 - 65.2. Remove small tank/circle on Wet Weather Grit Basins 1-5(1-4)
- 66. Liquids Overview
 - 66.1. Change all graphics
 - 66.2. Secondary Clarifiers
 - 66.2.1. Change graphic and add animation
 - 66.2.1.1. Add Rake position animation with movement
 - 66.3. Chlorine Building
 - 66.3.1. Change graphics of clarifiers 3&4 1&2
 - 66.3.1.1. Remove left motor indicator (3) dots
 - 66.3.1.2. Remove Contact tank motor indicator
 - 66.3.1.3. Secondary Clarifiers
 - 66.3.1.3.1. Change graphics
 - 66.3.1.3.2. Remove Contact tank motor indicator
 - 66.3.1.4. Primary Sludge Pump Station 1
 - 66.3.1.4.1. Change graphics
 - 66.3.1.4.2. Remove left 2 motor indicators
 - 66.3.1.4.3. Add label for Scum Rakes
 - 66.3.1.4.4. Add label for Sludge Rake
 - 66.3.1.5. Primary Sludge Pump Station 2

66.3.1.5.1. Remove left 2 motor indicators

66.3.2. Influent Pump Station

66.3.2.1. Remove bottom right motor indicator

66.3.3. Detritor 1-2

66.3.3.1. Remove Fine Screen 1-4 & Comminutors

66.3.4. Blower Building

66.3.4.1. Remove square graphics

66.3.5. Remove Mixed Liquor Pump Station 1&2 graphics

66.3.6. Remove Detritor 3 Fine Screen graphic

67. Solids Overview

67.1. Filter Press Building

67.1.1. Motor 134- 136 are same motor combine animation

67.2. Change label Plant Warehouse Building #2/ Centrifuge Building #2

67.3. Change graphics use same as Thickener screens

67.3.1. Label Thickener Sludge stations

67.4. Remove graphics in Centrifuge Building

67.5. Add label Centrifuge/ Centrifuge Building 1

68. Filter Press Trends

68.1. All current trends are acceptable

69. Chlorine Residuals

69.1. Remove all Chlorine Trends

70. Suspended Solids

70.1. Add Contact Tank 5 & 7 trends

71. Dissolved Oxygen

71.1. Remove Effluent Trend screen

72. Ph Level

72.1. Remove Ph Level Screen

73. Contact Tank Basin 3

73.1. Remove trend screen

74. Fine Screens 1-6

74.1. Remove trend screen

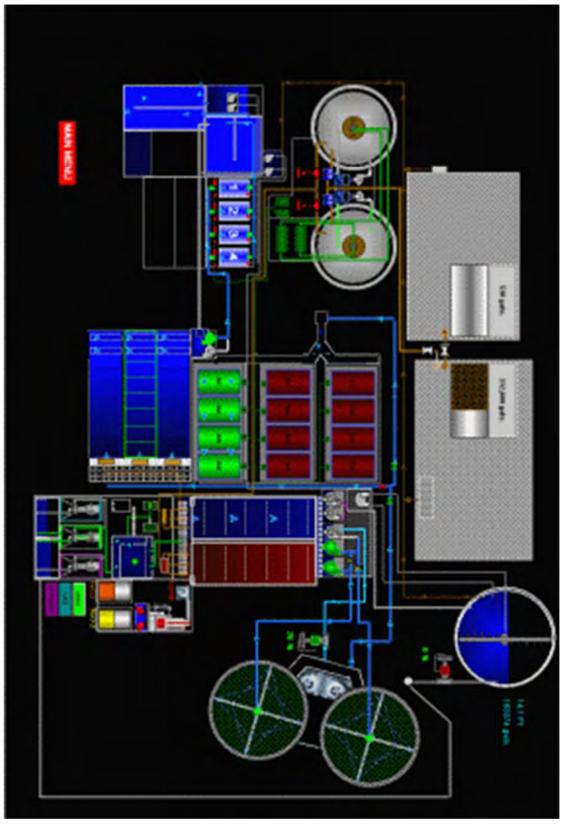
75. Thickener Blanket

75.1. Remove trend screen

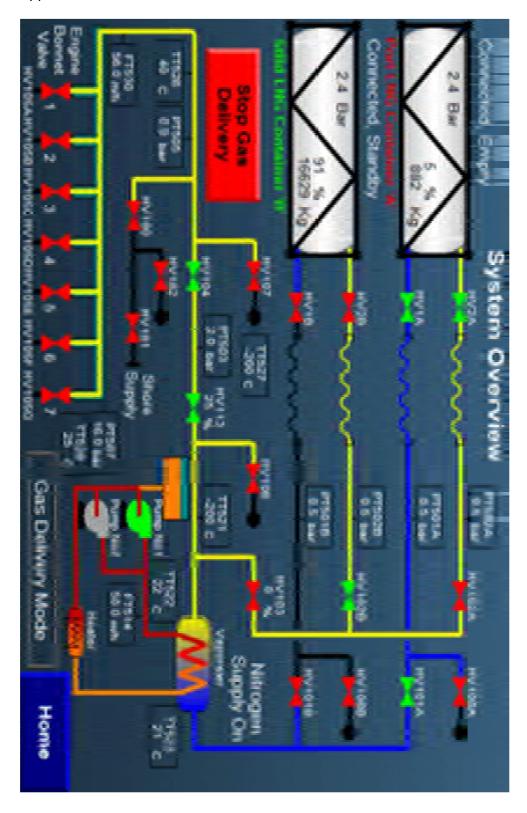
- 1. All screen graphics are required to be updated as defined in Part 1: Scope
- 2. Pump Station that need to be removed
 - 2.1. Site 29,36,46,54,56,62,64,78,80,89,93,104,105,106,107,109-121,123,124,126 and 128
- 3. Orchard Knob P.S.
 - 3.1.1. Create new screen with Old pump station screen and new pump station screen on the same screen
 - 3.1.2. Create detail screen if needed
- 4. Create Critical Wet Weather Overview screen, to consist of;
 - 4.1. The design of the screen shall be realistic view of the geographical location
 - 4.2. 17 Stations, 9 CSO's and 8 Storm Stations
 - 4.2.1. Create 19th Street
 - 4.2.2. Create 23rd Street
 - 4.2.3. Create Citico
 - 4.2.4. Create East Brainerd
 - 4.2.5. Create Friar Branch
 - 4.2.6. Create Mountain Creek
 - 4.2.7. Orchard Knob
 - 4.2.8. Create Ringgold
 - 4.2.9. Create South Chick
 - 4.2.10. Create Tiftonia #1
 - 4.2.11. Create Spring Creek
 - 4.2.12. Create Hixson #2
 - 4.2.13. Create Hixson #1
 - 4.2.14. Create Boyscout Road
 - 4.2.15. Create Big Ridge #2
 - 4.2.16. Create Big Ridge #6
 - 4.2.17. Create Dupont Parkway
- 5. Site pictures for all locations to be added for training purposes
 - 5.1. Picture can be invoked by separate button on screen
- 6. Create new screen navigation in alphabetical order
- 7. All pump stations to have Information and Alarm banner at bottom of page
- 8. Create separate Storm Stations for Pump Station
- 9. Create separate CSO Station screens
- 10. Create animation on all Overview screens to indicate site running or in alarm
- 11. Create report screen for;
 - 11.1. Revenue Report
 - 11.2. Critical Station Report
 - 11.2.1. Example; Water Meter, Electric Meter and Pump Hours
- 12. Create screens for each pump stations to show MCC Room and Drywell for Critical Stations

- 13. Create screen to show site pictures of Manholes and inward and outward flow of each station
 - 13.1. See appendix for example of site picture
 - 13.2. Animation of site would be preferred for flow and alarm condition
- 14. Additions required for multiple sites
 - 14.1. Start/Stop Buttons
 - 14.2. PLC Time readings
 - 14.3. False alarms need to be removed
 - 14.4. Scaling on numerous readings need to be analyzed, units changed

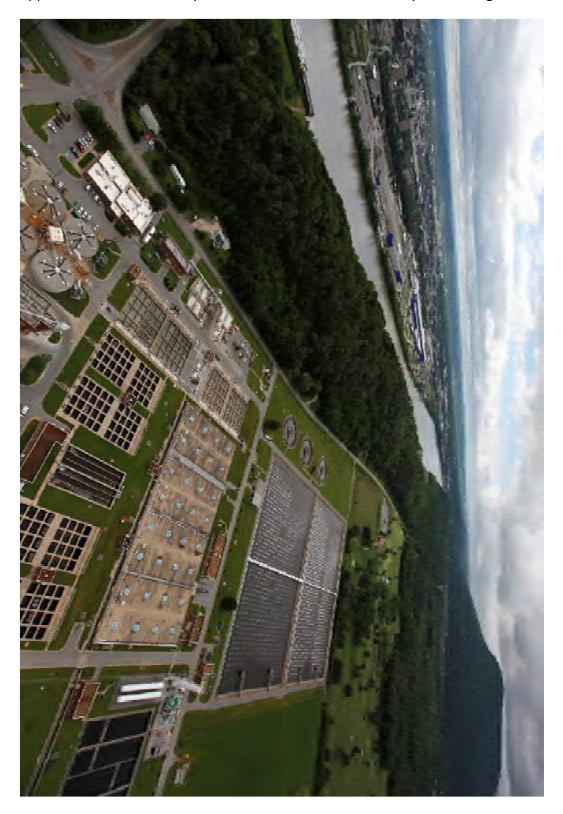
Appendix 1: Overview Screen with flow animation, prefer real site pictures where possible



Appendix 2: Device and Flow Color Schemes



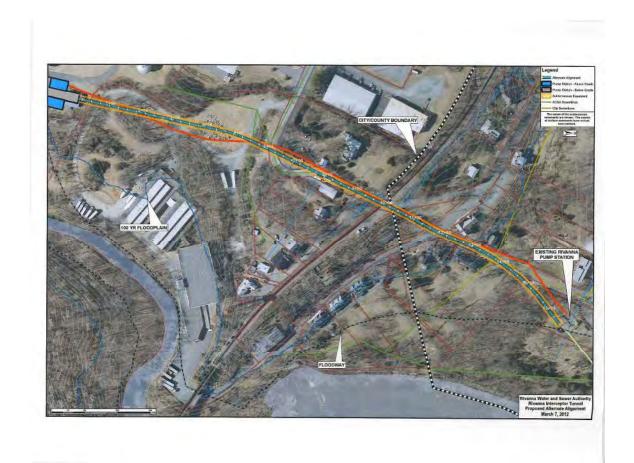
Appendix 3: Overview Site picture to be animated with transparent navigation



Appendix 4: Equipment Pump Station with animation



Appendix 5: Site picture with Manhole location and system flow (Section 13.0)



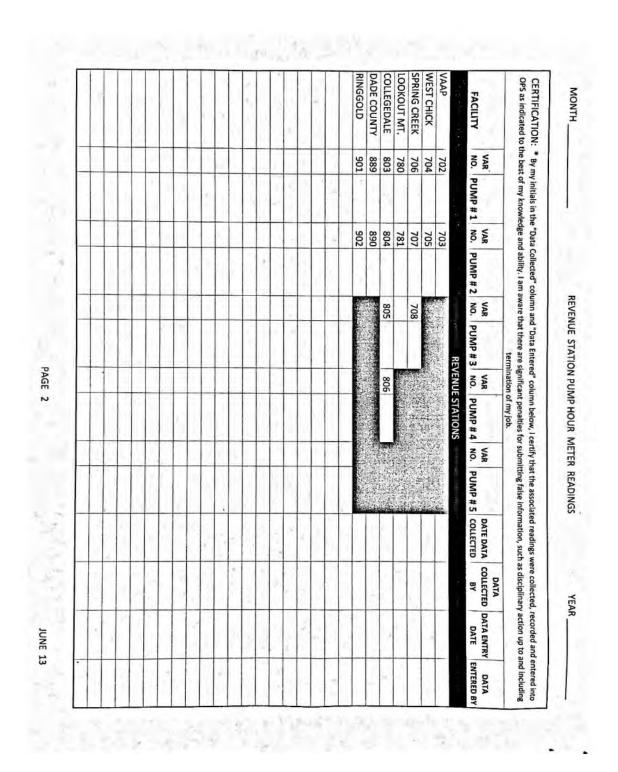
Appendix 6: Site picture with Manhole location and system flow



Appendix 7: Revenue Station Electric/Water Report

readings were collected.	y my initials in the "Data Collecti recorded and entered into OPS its for submitting false informati	as indicate	d to the hest of	my knowledge as	of ability I am a	ware that there are
FAGILTY	METER READINGS	VAR NO.	DATE DATA	DATA COLLECTED BY		DATA ENTERED
			ER READING		, and	
/AAD		724				
WEST CHICK		726				
SPRING CREEK		728	1	1 - 1		
COLLEGEDALE		809				
RINGGOLD		907				
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COLLEGEDALE		808				
RINGGOLD		909				
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VAAP		790		1		1
WEST CHICK	1	792	1.4			
PRING CREEK		794				
COLLEGEDALE		807	-			-
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Appendix 8: Revenue Station Pump Hour Report



Appendix 9: Critical Station Check Report

NOTES:	Boyscout Rd	Hixson #2	Spring Creek	Tiftonia #1	South Chick	Ringgold	Orchard Knob	Mountain Creek	Friar Branch	East Brainerd	Citico	23rd St	19th St	STATION	DATE:	
		-				-	-					-	-	PUMP 1	TIME:	
									-				-	PUMP 3		
														PUMP 4		-
														LEVEL LEVEL		
	8.0'	8.0'	10.0'	126"	20.0	11.0'	10.5'	9.0'	11.6	10.0	13.0'	17.5'	11.6'	MET WELL HIGH		
														PUMP#1 Flow	PUMP	-
	10 mg								and a					PUMP#2 Flow	PUMP STATUS	
														PUMP # 3	-	1
														PUMP#4 FLOW	A - AVAILABLE	
	0/s			0/5					I					TOTAL FLOW		100
	11.9 MGD	26 MGD	14.4 MGD	12528 GPM	103 MGD	4320 GPM	67 MGD	12 MGD	72.6 MGD	9.7 MGD	118 MGD	78 MGD	14000 GPM	MAXIMUM	R - RUNNING	-
				8			100	1		P	3			MOST RECENT PUMP START TIME	F-PUMP F	-
														SITE ALARMS	AP FAILURE	

MOCCASIN BEND WASTEWATER TREATMENT PLANT FILTER PRESS BUILDING TOTALIZER READINGS DATE: OPERATOR: TRAIN 2 TRAIN 1 US Filter Sludge Totalizer - Start: US Filter Sludge Totalizer - End: Shift Total: Conditioned Sludge Feed - Shift Total: Lime Slurry Totalizer - Start: Lime Slurry Totalizer - End: Shift Total: Ferric Chloride Totalizer - Start: Ferric Chloride Totalizer – End: Shift Total: Boiler #1 Gas Reading - Start: Boiler #1 Gas Reading - End: Shift Total: Boller #2 Gas Roading - Start: Boiler #2 Gas Reading - End: Shift Total: Boiler #3 Gas Reading - Start: Boiler #3 Gas Reading - End) Shift Total: Gas Used Natural or Digester Bldg: Certification: "I hereby certify that the information presented above has been reviewed by me and to the best of my knowledge is true, accurate and complete. I am aware that there is significant disciplinary action up to and including dismissal for submitting false information."

Signature

Appendix 11: Liquid Operations Report (Page 1)

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Appendix 21: Process Control Log Report (Page 6)

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Appendix 22: Process Control Log Report (Page 7)

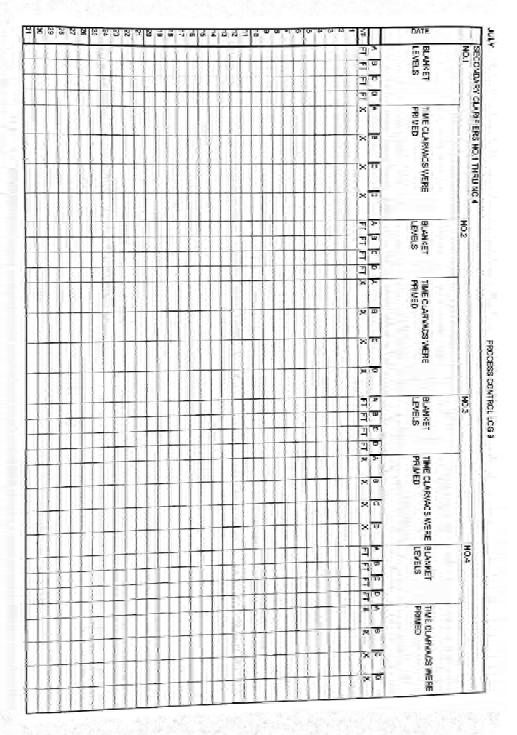
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Appendix 23: Process Control Log Report (Page 8)

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Appendix 24: Process Control Log Report (Page 9)



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Appendix 25: Process Control Log Report (Page 10)

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Appendix 27: Process Control Log Report (Page 12)

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Appendix 28: Process Control Log Report (Page 13)

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Appendix 29: Process Control Log Report (Page 14)

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Appendix 30: Process Control Log Report (Page 15)

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Appendix 31: Process Control Log Report (Page 16)

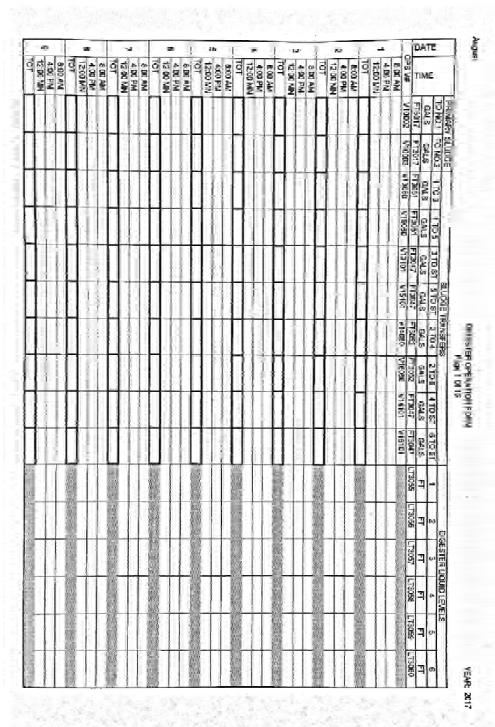
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Appendix 32: Process Control Log Report (Page 17)

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Appendix 33: Digester Operations Report (Page 1)

• The following 4 pages provide a layout for the first 9 days of the month. The remaining days of the month are to be filed in consecutive order.



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Appendix 34: Digester Operations Report (Page 2)

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Appendix 35: Digester Operations Report (Page 3)

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Appendix 36: Digester Operations Report (Page 4)

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