AECOM
Addendum No. 1

Posted on Trasco's plan room at
Lexington City Hall Renovation :: Addenda :: TRASCO Online Planroom.
Addendum No. 1, 3 pages
Mandatory Pre-bid Conference, 6 pages
Specifications, 3 pages
Drawings, 10 pages

AECOM
10 S Jefferson St., Suite 1600
Roanoke, VA 24011

Project: Lexington City Hall Renovation
Lexington, Virginia

Bid Date: February 6, 2025 until 3:00 p.m. local prevailing time

Addendum Date: 27 January 2025

Project No. 60730109

Addendum No. 1

The following information shall modify the contract documents, and the work shall be accomplished in accordance with such stated modifications. It is suggested that this addendum be stapled to the back of the front cover of the project manual.

GENERAL

Mandatory Pre-bid Conference dated 22 January 2025 is attached for information.

Pre-bid Questions and Responses follow:

1. Question: Section 04373-1, page 108. Can the Schedule of Values be submitted after the bid is due? This will require lots of work from GC and subcontractors to provide all the information requested. Typically, a minimum of 48 hours is given to submit this request. Some trades will not submit a bid until an hour before it's due making this request hard to produce in that amount of time.
   Response: No, Schedule of Values must be submitted with bid.

2. Question: Section 001116-1, paragraph 1.2, page 15: Can the bid date of February 6, 2025 be extended?
   Response: No.

3. Question: Sheet CD101, Keynote 9: Sheet CD101, Keynote 9 states to see architectural Sheet AS100 for flagpole, front porch and sidewalk demolition details. There is no Sheet AS100 in the drawing set.
   Response: See Addendum No. 1 revised Sheet CD101.

4. Question: Section 002513-1, page 19: How shall additional pre-bid site visits for bidders and subcontractors be handled? Who is the designated point of contact and how should site access be coordinated?
   Response: Contact Doug Sisson, Lexington City Public Works at (540) 463-3154 to schedule a site visit time Monday through Friday, between 8:30 am and 3:00 pm.

SPECIFICATIONS

Document 000101 Project Title Page:
Replace with revised Document 000101 Project Title Page.

Document 001116 Invitation to Bid:
Replace with revised Document 001116 Invitation to Bid.

Section 015000 Temporary Facilities and Controls:
Change the first sentence in paragraph B to read as follows:
Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections.

Change paragraph 3.3.B.1 to read as follows:
Connect temporary sewers to municipal system as directed by authorities having jurisdiction.

Section 017839 Project Record Documents:
Change paragraph 1.2.A.2.a.1 to ready as follows:
Submit PDF electronic files of scanned record prints and one set of file prints.

DRAWINGS

Sheet CD101:
Replace sheet with Revision 1 sheet dated 01/24/2025.

Sheet CS101:
Replace sheet with Revision 1 sheet dated 01/24/2025.

Sheet CG101:
Replace sheet with Revision 1 sheet dated 01/24/2025.

Sheet CU101:
Replace sheet with Revision 1 sheet dated 01/24/2025.

Sheet CC101:
Replace sheet with Revision 1 sheet dated 01/24/2025.

Sheet M-601:
Replace sheet with Revision 1 sheet dated 01/24/2025.

Sheet E-001:
Replace sheet with Revision 1 sheet dated 01/24/2025.

Sheet ES101:
Replace sheet with Revision 1 sheet dated 01/24/2025.

Sheet E-504:
Replace sheet with Revision 1 sheet dated 01/24/2025.

Sheet E-601:
Replace sheet with Revision 1 sheet dated 01/24/2025.

End of Addendum

AECOM
Construction Administration Department

Mandatory Prebid Conference

Project Title	**Location of Conference:**
Lexington City Hall Renovation Lexington, Virginia	2nd Floor Conference Room Lexington City Hall 300 East Washington Street Lexington, Virginia 24450 **Time, Date:** 10:00 am, 22 January 2025

Owner's Representative:	**Architect/Engineer:**
Patrick Madigan City of Lexington Department Public Works 890 Shop Road Lexington, Virginia 24450	AECOM 10 South Jefferson Street Suite 1600 Roanoke, Virginia 24011 Ph: (540) 857-3100

Agenda

I. Introduction of Participants and Registration of Attendees

II. Purpose of Conference

The purpose of this prebid conference is to provide prospective bidders with an opportunity to familiarize themselves with the existing structure and to ask questions pertaining to the contract documents.

II. No Oral Modifications

This prebid conference is being held for the benefit of all parties in attendance; however, it is understood that nothing presented during this conference, including any oral interpretations of the meaning or intent of the contract documents, may modify or otherwise alter the contract documents. The contract documents may only be modified in writing. Prior to award of the construction contract, any required clarifications, revisions or modifications of the contract documents will be by written addendum.

III. Description of The Project and Review of Contract Documents

A. Project Description

1. Review of the general scope of the project.

a. Purpose and intent of the project.

b. Work restrictions. See Section 011000 Summary, paragraph 1.6.
c. Temporary facilities. See Section 015000
d. Parking, storage and staging. See Section 015000
e. Existing hazardous material information. See Document 003126. Currently hazardous material abatement isn't part of this contract.

2. Review of the contract drawings.

3. Procurement and Contract Documents can be viewed online at Trasco's website (plan room).

B. Contract Documents

1. Review AIA Document A101 Standard Form of Agreement between Owner and Contractor and AIA Document A201 General Conditions of the Contract for Construction attached to Document 006000 Project Forms. Modified project specific AIA Document A101 and AIA Document A201 will be issued by addendum.

2. Requirements for Bonds and Insurance.
Bid bond 5 percent of bid amount. See Document 001116.
Performance and Payment Bond. Bond percentage will be addressed by addendum.
Labor and Material Payment Bond. Bond percentage will be addressed by addendum.
Insurance requirements will be addressed by addendum.

3. Bid Form (see Document 004113):

a. Contract Time is 550 days for the Notice to Proceed date.
b. Work is subject to liquidated damages. See Document 001116.

4. Unit Prices Form (see Document 004322) and Alternates Form (see Document 004323).

5. Review of procedures for addressing questions during bidding.

a. Final date for submitting questions during bid period is 5:00 pm on 30 January 2025.
b. Use Prebid Question Form (see Document 001116 Attachment)

6. Invitation for Bids. See Document 001116.
Bids will be received at Lexington Public Works, 890 Shop Road, Lexington, Virginia 24450, until 3:00 p.m., local time, on February 6, 2025, at which time bids will be opened publicly and read aloud.

Bids will also be received *electronically* online at Trasco's plan room until 3:00 pm, local prevailing time, on February 6, 2025, and then publicly opened and read aloud virtually. Contact Patrick Madigan for the link to the virtual bid opening. Online receipt of bids will be addressed by addendum.

7. Addendum No. 1 will include pre-bid conference summary, pre-bid question responses, and revised Invitation to Bid.

IV. Questions

A. Explanation of procedure for addressing questions during the prebid conference.

1. If a question can be sufficiently answered by direct reference to the contract documents during the prebid conference, the Construction Project Manager will direct the questioner's attention to the appropriate location.

2. If a question cannot be sufficiently answered by direct reference to the contract documents during the prebid conference, no response will be provided during the prebid conference. The questions will be taken under consideration and if (i) a clarification, revision or modification of the contract documents is required or (ii) it is otherwise determined to be beneficial to the project, a written addendum will be issued.

B. Receipt of questions from prospective bidders.

1. Can the bid date of February 6, 2025 be extended?
2. Sheet CD101, Keynote 9 states to see architectural Sheet AS100 for flagpole, front porch and sidewalk demolition details. There is no Sheet AS100 in the drawing set.

See Addendum No. 1 for pre-bid questions and responses.

V. Added Comments by OWNER. None.

VIII. Tour of Project

The prebid conference summary does not modify or otherwise change the drawings and specifications.

Prepared by:

AECOM

Kyle Dobbins
Construction Project Manager

AECOM
Construction Administration Department
Prebid Conference

Owner City of Lexington, Lexington, Virginia
Project City of Lexington City Hall Renovation
Location Lexington, Virginia

Project No. 60730109
Time 10:00 am
Date 22 January 2025

Organization/Company Represented	General Contr.? Yes/No	Name (Print Legibly)	Business Address (Street and Post Office, if applicable)	Telephone (including area code) / Email Address
AECOM	No	Kyle Dobbins Construction Project Manager	10 South Jefferson Street, Suite 1600 Roanoke, VA 24011	Tele. (540) 857-3225 Email Kyle.Dobbins@aecom.com
AECOM	No	Todd Wheatley Project Manager	10 South Jefferson Street, Suite 1600 Roanoke, VA 24011	Tele. (540) 857-3121 Email Todd.Wheatley@aecom.com
WACO, Inc.	NO mechanical SUB	Hayden Rice Estimator	710 W. Low St Street Covington, VA 24426	Tele. 540-494-5655 Email hrice@wacoinc.net
WALL CONSTRUCTION LLC	YES	DOUGLAS VIEHMAN PROJ MANAGER	161 DILLARD ROAD MADISON HEIGHTS, VA 24572	Tele. 434-849-1026 Email DOUG@WALLCONSTRUCTION.BIZ
City of Lexington	NO	Doug Sisson City of Lexington	840 Shop Rd Lexington VA	Tele. 540 463 3154 Email DSisson@LexingtonVA.gov
Kreider Mech.	NO	Jason Ayres	1130 Patterson Roanok VA 24016	Tele. 540-343-7612 Ext. 108 Email Jason.A@KMECH.com
Lantz Construction	yes	Will Tinnell Estimator	539 S. Main St. Broadway VA. 22815	Tele. 540-896-8911 Email. WTinnell@lantzcc.com
Stone Hill Con	NO concrete	Jerry Martin	112 North River Rd Bridgewater VA 22812	Tele. (540) 810-4883 Email. Jmartin@stonehillva.com
MB Contractors	Yes	ROBERT WOODHALL		Tele. 540-798-5158 Email. bidse mbcontractors.com
F & S	yes	John williams	2944 orange Ave Roanoke VA 24012	Tele. 540-655-0288 Email. Jwilliams@FSbuildinginc.com

AECOM
Construction Administration Department
Prebid Conference

Owner City of Lexington, Lexington, Virginia
Project City of Lexington City Hall Renovation
Location Lexington, Virginia
Project No. 60730109
Time 10:00 am
Date 22 January 2025

Organization/Company Represented	General Contr.? Yes/No	Name (Print Legibly)	Business Address (Street and Post Office, if applicable)	Telephone (including area code) / Email Address
Moores Electric	No	David Allen	101 Elsewood Ave Altavista VA 24517	Tele. 434-369-4374 Email allend@mooreselectric.com
" "	NO	Grayson Pennington	" " "	Tele. (434) 309-2511 Email gpennington@mooreselectric.com
Kjellstrom & Lee	Yes	Cynthia Bendiksby	23 Myers Corner Staunton VA	Tele. 540-290-5865 Email cbendiksby@kjellstromandlee.com
F.L. Price Construction	Yes		2166 Salem Industrial Dr Salem, VA	Tele. 540.375.3200 Email bidroom@flprice.com
"	"			Tele. Email
Alan Graham Colin Walker	Yes	Harper General Contractors	~~2609 McVitty Rd~~ ~~Roanoke VA 24018~~	Tele. 276-340-4482 Email CWalker@harpergc.com
KNA Contracting	Yes	Ryan Minnix	2609 McVitty Rd Roanoke VA 24018	Tele. 540-814-0119 Email. estimating@KNAContracting.com
Branch Builds	Yes	Scott Webber	3635 Peters Creek Rd. Roanoke, VA 24019	Tele. 540-797-7903 Email. scott.webber@branchbuilds.com
Nielsen	Yes	Matt Hulvey Derrik Walling	3588 Early Road Harrisonburg VA 22801	Tele. 540-434-7376 Email. mhulvey@nielsen-inc.com
Baker Roofing	NO	Nick Fleshman	3361 Melrose Ave. Roanoke, VA 24017	Tele. 540-521-3094 Email. nfleshman@bakerroofing.com

AECOM
Construction Administration Department
Prebid Conference

Owner City of Lexington, Lexington, Virginia
Project City of Lexington City Hall Renovation
Location Lexington, Virginia
Project No. 60730109
Time 10:00 am
Date 22 January 2025

Organization/Company Represented	General Contr.? Yes/No	Name (Print Legibly)	Business Address (Street and Post Office, if applicable)	Telephone (including area code) / Email Address
KJELLSTROM + LEE	YES	BRETT TUCKER	23 MYERS CORNER DR	Tele. 804.640.5207
			STAUNTON, VA 24401	Email BTUCKER@KJELLSTROMANDLEE.COM
SL Painting & Restoration	No	Shawn Lotts	1613 Pedlar river rd	Tele. 540 461 1391
			Vesuvius Va 24483	Email Shawn Lotts @ Yahoo.com
				Tele.
				Email
				Tele.
				Email
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DOCUMENT 000101 - PROJECT TITLE PAGE

1.1 PROJECT MANUAL VOLUME 1

A. Lexington City Hall Renovation

B. City of Lexington, VA.

C. Architect Project No. 60730109.

D. Architect: AECOM, Roanoke, Virginia, 24011

E. Phone: (540) 857-3100

F. Fax: (540) 857-3180

G. Website: www.aecom.com

H. Issued: 3 January 2025

END OF DOCUMENT 000101

DOCUMENT 001116 - INVITATION TO BID

1.1 PROJECT INFORMATION

A. Notice to Bidders: Qualified bidders are invited to submit bids for Project as described in this Document according to the Instructions to Bidders.

B. Project Identification: Lexington City Hall Renovation.

1. Project Location: 300 East Washington Street, Lexington, VA 24450.

C. Owner: City of Lexington, VA.

1. Owner's Representative: Patrick Madigan

D. Architect: AECOM.

E. Project Description: Project consists of renovation and addition to City of Lexington City Hall.

F. Construction Contract: Bids will be received for the following Work:

1. General Contract (all trades).

1.2 BID SUBMITTAL AND OPENING

A. Owner will receive sealed bids until the bid time and date at the location indicated below. Owner will consider bids prepared in compliance with the Instructions to Bidders issued by Owner, and delivered as follows:

1. Bid Date: February 6, 2025.
2. Bid Time: 3:00 p.m., local time.
3. Location: Lexington Public Works 890 Shop Road, Lexington, VA 24450.
4. Bids will also be received electronically online at https://www.trascoplanroom.com/projects/797/details/lexington-city-hall-renovation until 3:00 P.M., local prevailing time, on February 6, 2025, and then publicly opened and read aloud virtually. Contact Patrick Madigan for the link to the virtual bid opening.

B. Bids will be thereafter publicly opened and read aloud.

1.3 BID SECURITY

A. Bid security shall be submitted with each bid in the amount of 5 percent of the bid amount. No bids may be withdrawn for a period of 60 days after opening of bids. Owner reserves the right to reject any and all bids and to waive informalities and irregularities.

1.4 PREBID MEETING

A. A prebid meeting for all bidders will be held at City Hall 2nd Floor Conference Room 300 East Washington Street, Lexington, VA 24450 on January 22, 2025 at 10:00 a.m., local time. Prospective bidders are required to attend.

B. Bidder Questions: Architect will provide responses to bidders' questions received up to 5:00 pm on January 30, 2025. Submit pre-bid questions using the Pre-bid Question Form attached to this section.

C. Prebid Meeting: See Document 002513 "Prebid Meetings."

1.5 DOCUMENTS

A. Viewing Procurement and Contracting Documents: Examine online at Trasco's website at www.trascoplanroom.com.

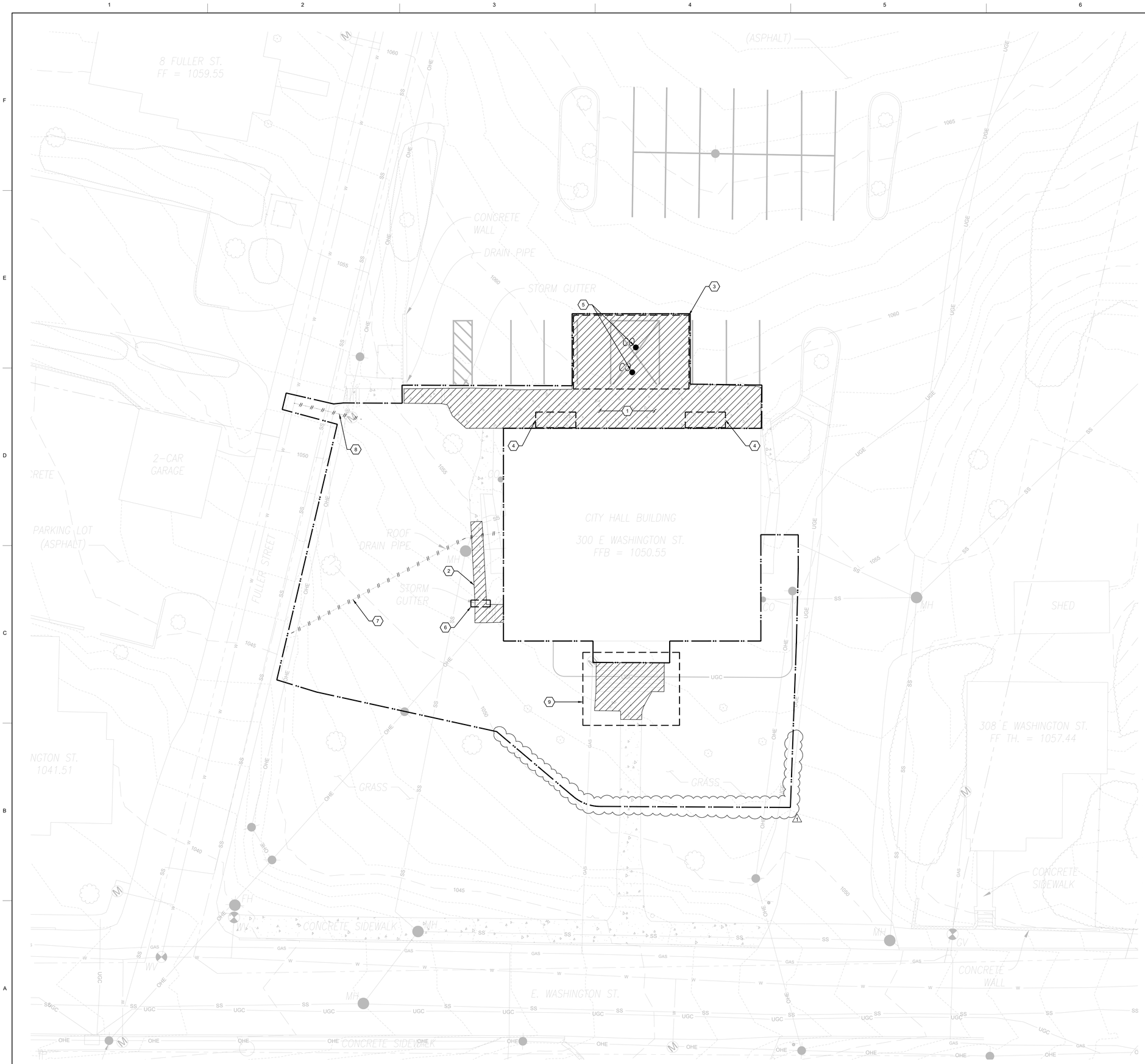
1.6 TIME OF COMPLETION AND LIQUIDATED DAMAGES

A. Bidders shall begin the Work on receipt of the Notice to Proceed and shall complete the Work within the Contract Time. Work is subject to liquidated damages.

1.7 BIDDER'S QUALIFICATIONS

A. Bidders must be properly licensed under the laws governing their respective trades and be able to obtain insurance and bonds required for the Work. A Performance Bond, a separate Labor and Material Payment Bond, and Insurance in a form acceptable to Owner will be required of the successful Bidder.

END OF DOCUMENT 001116



GENERAL SHEET NOTES

A. FOR ALL CONCRETE SIDEWALK DEMOLITION, TERMINATE EXTENTS OF CONCRETE DEMOLITION CUTS TO THE NEAREST EXPANSION JOINT.

B. FOR ALL UTILITY DEMOLITION, CONTRACTOR TO COORDINATE WITH VIRGINIA 811 AND/(OR) THE LOCAL UTILITY PROVIDER TO MARK LOCATION OF UNDERGROUND UTILITIES PRIOR TO DEMOLITION OR EXCAVATION ACTIVITIES.

KEYNOTES

1. DEMOLISH EXISTING CONCRETE SIDEWALK ALONG THE NORTH ELEVATION AT MAIN ENTRANCE.
2. DEMOLISH EXISTING CONCRETE SIDEWALK ALONG WEST ELEVATION AT BASEMENT ENTRANCE.
3. DEMOLISH EXISTING ASPHALT PARKING LOT AT NORTH ELEVATION. ONLY DEMOLISH THE AREA OF PARKING LOT REQUIRED FOR SIDEWALK EXTENSION. EXCAVATE UNDERLYING SOIL TO DEPTH APPROPRIATE TO PROVIDE THE FINISHED SURFACE ELEVATION OF NEW CONCRETE SIDEWALK AS SHOWN ON SITE PLAN (SHEET CS101).
4. DEMOLISH HVAC UNITS, AND EXISTING CONCRETE PADS.
5. DEMOLISH CLEAN OUTS.
6. DEMOLISH STORM GUTTER IN SIDEWALK.
7. DEMOLISH EXISTING ROOF DRAIN PIPE.
8. DEMOLISH EXISTING WATER LATERAL LINE AND VAULT. DEMOLISH WATER SERVICE LINE FROM VAULT TO BUILDING (LOCATION UNKNOWN). CONTRACTOR TO VERIFY LOCATION IN FIELD PRIOR TO DEMOLITION.
9. DEMOLISH FLAGPOLE, FRONT PORCH, AND FRONT SIDEWALK AS INDICATED. SEE ARCHITECTURE SHEET AS101 FOR FLAGPOLE, FRONT PORCH, AND SIDEWALK DEMOLITION DETAILS. 1

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- W — EXISTING WATER LINE
- SS — EXISTING SANITARY SEWER LINE
- GAS — EXISTING GAS LINE
- OHE — EXISTING OVERHEAD POWER LINE
- UGE — EXISTING UNDERGROUND POWER LINE
- UGC — EXISTING UNDERGROUND COMMUNNICATIONS LINE
- DEMOLITION LINE
- DETAIL AREA
- LIMITS OF DISTURBANCE
- CONCRETE / ASPHALT DEMO

GRAPHIC SCALE(S)

1"=10' 0' 10' 20'

AECOM

PROJECT

LEXINGTON CITY HALL RENOVATION

CLIENT

CITY OF LEXINGTON
300 E. WASHINGTON STREET
LEXINGTON, VA 24450
540.462.3700 tel

CONSULTANT

AECOM
10 South Jefferson Street, Suite 1600
Roanoke, Virginia 24011
540.857.3100 tel 540.857.3180 fax
www.aecom.com

CONSULTANTS

DISCIPLINE
Consultant's Name
Address Line 1
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REGISTRATION

COMMONWEALTH OF VIRGINIA
LUBERTO V. BALLANO
Lic. No. 0402056059
January 24, 2025
PROFESSIONAL ENGINEER

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	01/24/2025	ADDENDUM NO. 1
I	07/25/2024	SCHEMATIC SUBMISSION

KEY PLAN

TN
PN

PROJECT NUMBER

60730109

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

CD101

NOT FOR CONSTRUCTION

Project Management Initials: Designer:____ Checked:____ Approved:____ ARCH E1 30" x 42"

Last saved by: DAVISB2 (2025-01-27) Last Plotted: 2025-01-27
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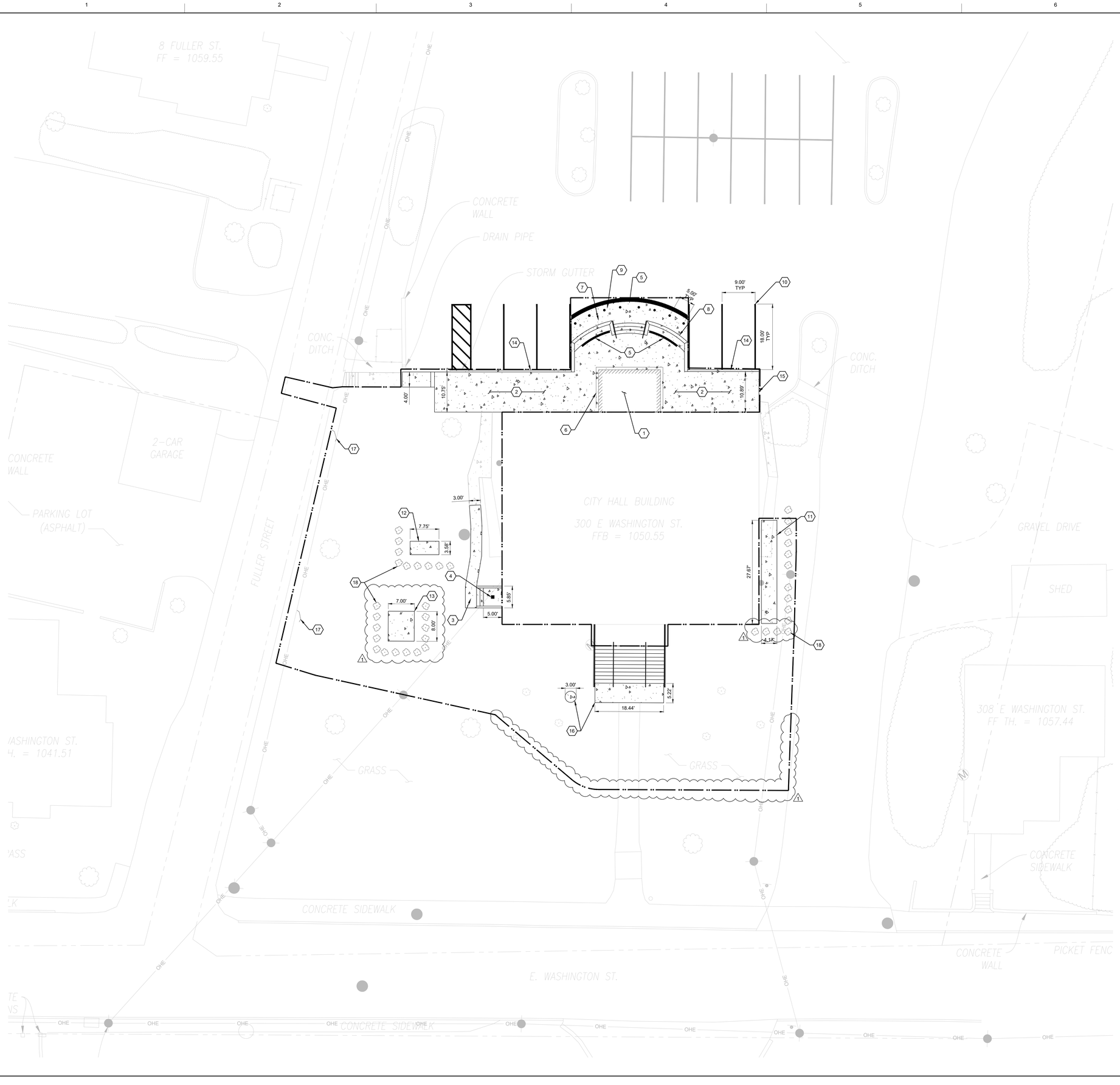

GENERAL SHEET NOTES

A. CIVIL RENOVATIONS CONSIST OF NEW SIDEWALK EXTENSION AT NORTH ELEVATION, NEW CONCRETE BASEMENT STEPS AT WEST ELEVATION, GRADING, AND STORMWATER DRAINS TO BETTER MANAGE THE RUNOFF COMING TOWARDS THE EXISTING BUILDING.

B. THE EXISTING PARKING SHALL REMAIN IN PLACE WITH NO MODIFICATIONS, EXCEPT FOR NEW PAVEMENT MARKINGS.

C. THE SIDEWALK EXTENSION AT THE NORTH ELEVATION DOES NOT REMOVE ANY EXISTING PARKING SPACES.

KEYNOTES

1. PROVIDE VESTIBULE ADDITION. SEE ARCHITECTURAL SHEET AE102 FOR VESTIBULE PLAN.
2. PROVIDE CONCRETE SIDEWALK AT MAIN ENTRANCE. SEE DETAIL D6 ON SHEET CS501.
3. PROVIDE CONCRETE SIDEWALK AND STEPS AT BASEMENT DOOR. SEE DETAILS A1 & D6 ON SHEET CS501.
4. PROVIDE STORM INLET. SEE SHEET CG101 FOR STORMWATER DRAINAGE PLAN.
5. PROVIDE TRENCH DRAIN STORM INLET. SEE SHEET CG101 FOR STORMWATER DRAINAGE PLAN.
6. PROVIDE SLOT DRAIN STORM INLET. SEE SHEET CG101 FOR STORMWATER DRAINAGE PLAN.
7. PROVIDE CONCRETE SURFACE. SEE DETAIL D6 ON SHEET CS501.
8. PROVIDE MASONRY KNEE WALL. SEE ARCHITECTURE SHEET AE504 FOR KNEE WALL DETAILS.
9. PROVIDE BOLLARDS (8 TYP.). SEE DETAIL E1 ON SHEET AS101.
10. PROVIDE NEW PAVEMENT MARKINGS.
11. PROVIDE CONCRETE PAD FOR MECHANICAL EQUIPMENT. SEE DETAIL 7 ON SHEET S-501.
12. PROVIDE CONCRETE PAD FOR GENERATOR. SEE DETAIL 7 ON SHEET S-501. GENERATOR AND CONCRETE PAD TO BE OFFERED AS A BID ALTERNATE. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO INSTALLATION OF GENERATOR AND/OR CONCRETE PAD. 1
13. CONCRETE PAD FOR TRANSFORMER FURNISHED AND INSTALLED BY DOMINION ENERGY. SEE DETAIL 7 ON SHEET S-501. LANDSCAPE SCREENING PROVIDED BY OWNER.
14. PROVIDE COMBINATION CURB AND GUTTER. SEE DETAIL T-02 ON SHEET CS501.
15. PROVIDE STANDARD CURB. SEE DETAIL T-01 ON SHEET CS501.
16. PROVIDE RENOVATED FRONT STAIRS, SIDEWALK LANDING, AND FLAGPOLE. SEE ARCHITECTURE SHEET AS100 FOR PLANS & DETAILS.
17. PROVIDE CONCRETE HEADWALL. SEE SHEET CG101 FOR STORMWATER DRAINAGE PLAN.
18. LANDSCAPE SCREENING TO BE PROVIDED BY OWNER.

LEGEND

- OHE — EXISTING OVERHEAD POWER LINE
- EXISTING FIRE HYDRANT
- EXISTING UTILITY POLE
- M — EXISTING UTILITY METER
- LIMITS OF DISTURBANCE
- CONCRETE
- NEW BUILDING

GRAPHIC SCALE(S)

1"=10' 0' 10' 20'

NOT FOR CONSTRUCTION

AECOM

PROJECT

LEXINGTON CITY HALL RENOVATION

CLIENT

CITY OF LEXINGTON
300 E. WASHINGTON STREET
LEXINGTON, VA 24450
540.462.3700 tel

CONSULTANT

AECOM
10 South Jefferson Street, Suite 1600
Roanoke, Virginia 24011
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EUBERTO V. BALLANO
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January 24, 2025
PROFESSIONAL ENGINEER

ISSUE/REVISION

1	01/24/2025	ADDENDUM NO. 1
I	07/25/2024	SCHEMATIC SUBMISSION
I/R	DATE	DESCRIPTION

KEY PLAN

TN
PN

PROJECT NUMBER

60730109

SHEET TITLE

SITE PLAN

SHEET NUMBER

CS101

Project Management Initials: Designer:____ Checked:____ Approved:____ ARCH E1 30" x 42"
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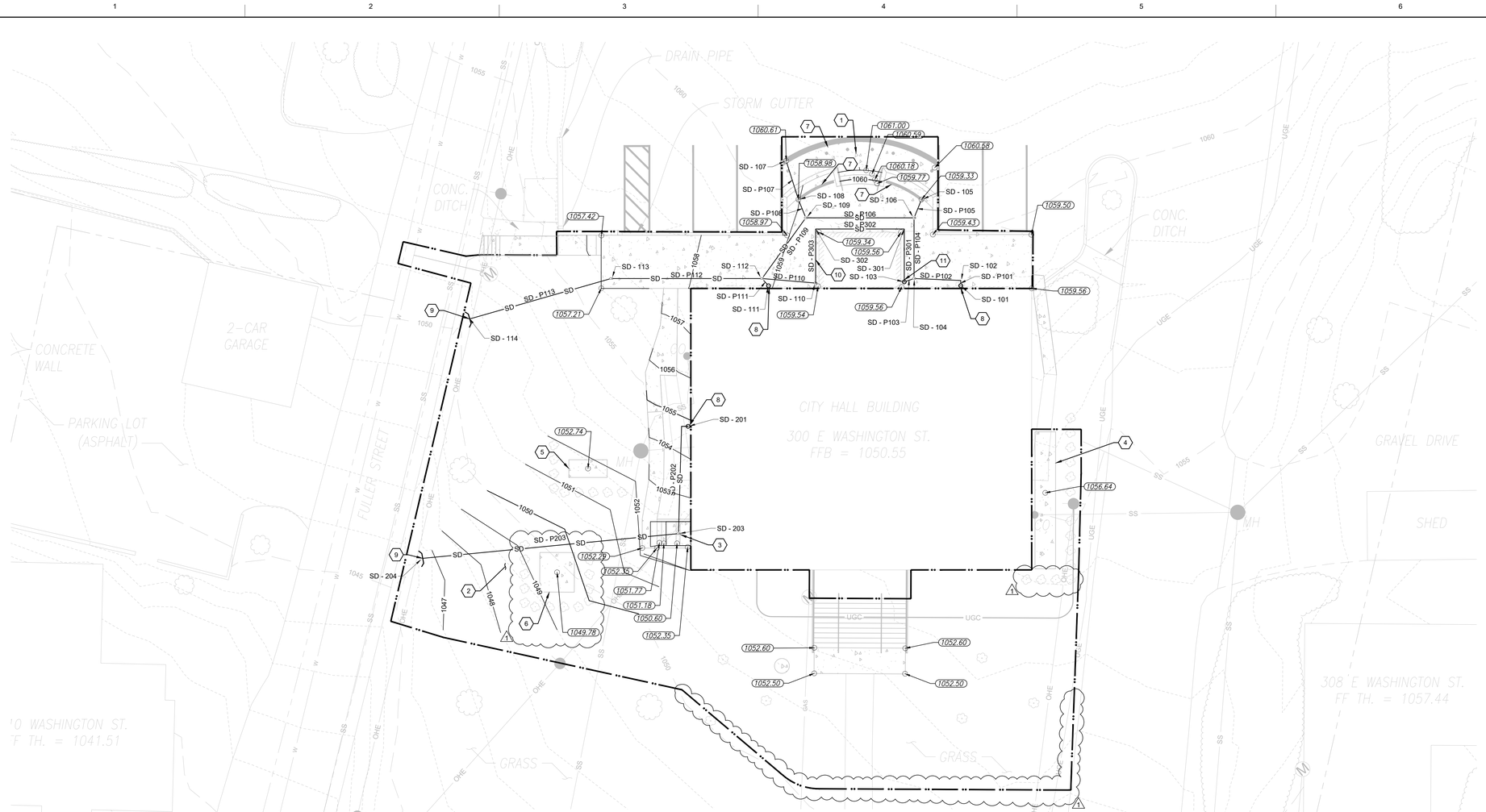

SD PIPE TABLE: WEST STORM DRAIN SYSTEM

PIPE NO.	TYPE	LENGTH (FT.)	SLOPE (%)	INV. IN (FT.)	INV. OUT (FT.)	NORTHING	EASTING
SD - P201	8" PVC	1.31'	1.69%	1049.434	1049.456	3810137.2744	11211666.4330
SD - P202	8" PVC	21.70'	2.00%	1049.334	1048.900	3810121.7638	11211651.1424
SD - P203	8" PVC	51.93'	4.85%	1048.800	1046.280	3810150.7703	11211608.0734

SD STRUCTURE TABLE: WEST STORM DRAIN SYSTEM

STR. NO.	TYPE	ELEVATION (FT.)	STRUCTURE HEIGHT (FT.)	NORTHING	EASTING
SD - 201	Roof Drain Boot	1054.804 (RIM)	0.785	3810137.2744	11211666.4330
SD - 202	Pipe Joint Fitting	1049.334 (INV. OUT)	0.895	3810138.1090	11211665.4201
SD - 203	Catch Basin (Grate Inlet)	1050.433 (RIM)	0.895	3810121.7638	11211651.1424
SD - 204	Concrete Rectangular Headwall	1046.280 (INV. OUT)	3.083	3810150.7703	11211608.0734

SD PIPE TABLE: SLOT DRAIN SYSTEM

PIPE NO.	TYPE	LENGTH (FT.)	SLOPE (%)	INV. IN (FT.)	INV. OUT (FT.)	NORTHING	EASTING
SD - P301	4" ABS PLASTIC	10.69'	0.50%	1058.447	1058.500	3810132.0299	11211718.7299
SD - P302	4" ABS PLASTIC	17.92'	0.50%	1058.357	1058.447	3810140.2829	11211725.5301
SD - P303	4" ABS PLASTIC	10.94'	0.50%	1058.302	1058.357	3810151.6766	11211711.7021

SD STRUCTURE TABLE: SLOT DRAIN SYSTEM

STR. NO.	TYPE	ELEVATION (FT.)	STRUCTURE HEIGHT (FT.)	NORTHING	EASTING
'SD - 110	Catch Basin (No Inlet)	1057.885 (INV. OUT)	0.403	3810143.2362	11211704.7475
SD - 301	Slot Drain Elbow Fitting	1058.447 (INV. OUT)	0.403	3810140.2829	11211725.5301
SD - 302	Slot Drain Elbow Fitting	1058.357 (INV. OUT)	0.403	3810151.6766	11211711.7021

SD PIPE TABLE: NORTH STORM DRAIN SYSTEM

PIPE NO.	TYPE	LENGTH (FT.)	SLOPE (%)	INV. IN (FT.)	INV. OUT (FT.)	NORTHING	EASTING
SD - P101	8" PVC	1.05'	2.00%	1057.850	1057.871	3810124.1822	11211727.0465
SD - P102	8" PVC	9.44'	0.50%	1057.703	1057.750	3810124.9892	11211727.7159
SD - P103	8" PVC	2.09'	2.42%	1057.703	1057.754	3810132.0299	11211718.7299
SD - P104	8" PVC	12.27'	0.50%	1057.542	1057.603	3810131.2941	11211720.6881
SD - P105	8" PVC	3.98'	4.80%	1057.542	1057.733	3810142.6543	11211731.9973
SD - P106	8" PVC	21.88'	0.50%	1057.333	1057.442	3810140.7646	11211728.4913
SD - P107	8" PVC	8.22'	6.24%	1057.481	1057.994	3810166.1033	11211715.8778
SD - P108	8" PVC	3.98'	1.20%	1057.333	1057.381	3810158.4780	11211712.7970
SD - P109	8" PVC	15.13'	0.50%	1057.157	1057.233	3810154.6753	11211711.6086
SD - P110	8" PVC	10.87'	6.00%	1057.233	1057.885	3810143.2362	11211704.7475
SD - P111	8" PVC	1.95'	4.00%	1057.157	1057.235	3810148.8781	11211697.0538
SD - P112	8" PVC	30.50'	4.00%	1055.837	1057.057	3810150.8310	11211696.9710
SD - P113	8" PVC	29.72'	14.00%	1050.000	1054.160	3810170.2271	11211673.4374

SD STRUCTURE TABLE: NORTH STORM DRAIN SYSTEM

STR. NO.	TYPE	ELEVATION (FT.)	STRUCTURE HEIGHT (FT.)	NORTHING	EASTING
SD - 101	Roof Drain Boot	1059.330 (RIM)	0.785	3810124.1822	11211727.0465
SD - 102	Pipe Joint Fitting	1057.750 (INV. OUT)	0.895	3810124.9892	11211727.7159
SD - 103	Roof Drain Boot	1059.547 (RIM)	0.785	3810132.0299	11211718.7299
SD - 104	Catch Basin (No Inlet)	1057.603 (INV. OUT)	0.895	3810131.2941	11211720.6881
SD - 105	Trench Drain Inlet	1059.334 (RIM)	0.785	3810142.6543	11211731.9973
SD - 106	Catch Basin (No Inlet)	1057.442 (INV. OUT)	0.895	3810140.7646	11211728.4913
SD - 107	Trench Drain Inlet	1060.610 (RIM)	0.785	3810166.1033	11211715.8778
SD - 108	Trench Drain Inlet	1058.982 (RIM)	0.895	3810158.4780	11211712.7970
SD - 109	Catch Basin (No Inlet)	1057.233 (INV. OUT)	0.895	3810154.6753	11211711.6086
SD - 110	Catch Basin (No Inlet)	1057.885 (INV. OUT)	0.785	3810143.2362	11211704.7475
SD - 111	Roof Drain Boot	1058.944 (RIM)	0.785	3810148.8781	11211697.0538
SD - 112	Catch Basin (No Inlet)	1057.057 (INV. OUT)	0.978	3810150.8310	11211696.9710
SD - 113	Catch Basin (No Inlet)	1054.160 (INV. OUT)	2.629	3810170.2271	11211673.4374
SD - 114	Concrete Rectangular Headwall	1050.000 (INV. OUT)	3.083	3810182.0904	11211646.1912

GENERAL SHEET NOTES

A. CONTRACTOR SHALL COORDINATE WITH VIRGINIA 811 AND(OR) LOCAL UTILITY PROVIDERS TO MARK UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR DIGGING.

B. THERE SHALL BE NO RE-GRADING OF THE EXISTING PARKING LOT.

C. CONCRETE PAVEMENT AT NORTH ELEVATION SHALL BE INSTALLED TO MATCH THE EXISTING GRADE / SLOPE OF THE ASPHALT PAVEMENT.

D. THE LATERAL AND CROSS SLOPES OF THE PROPOSED CONCRETE SIDEWALK SHALL BE INSTALLED TO MATCH EXISTING CONDITIONS.

E. PROPOSED STROMWATER DRAINAGE SYSTEM WILL BE INSTALLED BELOW THE NEW CONCRETE SIDEWALK TO ELIMINATE EXPOSED PIPING ALONG THE ENTRANCE.

F. THE SLOT DRAIN IS INCLUDED IN THE BASIS OF DESIGN, BUT WILL BE OFFERED AS A BID ALTERNATE.

KEYNOTES

1. PROVIDE CONCRETE PAVEMENT GRADING TO MATCH EXISTING ASPHALT PAVEMENT GRADING.
2. PROVIDE GRADING AT SIDE YARD TO PROMOTE BETTER DRAINAGE AWAY FROM BUILDING.
3. PROVIDE DRAIN INLET. SEE NYOPLAST 12" DRAIN BASIN DETAIL ON SHEET CG501.
4. PROVIDE GRADING AT MECHANICAL EQUIPMENT CONCRETE PAD SITE (EAST ELEVATION) TO PROVIDE LEVEL BASE AND POSITIVE DRAINAGE AROUND CONCRETE PAD.
5. PROVIDE GRADING AT GENERATOR CONCRETE PAD SITE (WEST ELEVATION) TO PROVIDE LEVEL BASE AND POSITIVE DRAINAGE AROUND CONCRETE PAD. GENERATOR PAD IS OFFERED AS A BID ALTERNATE. SEE SHEET CS101.
6. PROVIDE GRADING AT TRANSFORMER CONCRETE PAD SITE (SOUTH ELEVATION) TO PROVIDE LEVEL BASE AND POSITIVE DRAINAGE AROUND CONCRETE PAD.
7. PROVIDE TRENCH DRAIN TO COLLECT SHEET FLOW RUNOFF. SEE DETAIL A1 ON SHEET CG501.
8. PROVIDE ROOF DRAIN BOOT TO COLLECT RNUOFF FROM EXISTING ROOF DRAINS. SEE DETAIL A6 ON SHEET CG501.
9. PROVIDE CONCRETE HEADWALL AT STORM DRAIN OUTFALL. SEE DETAIL A4/B4 ON SHEET CG501.
10. PROVIDE SLOT DRAIN AROUND PERIMETER OF VESTIBULE. SEE DETAILS ON SHEET CG502.
11. DO NOT CONNECT SLOT DRAIN CHANNEL SD - P301 TO ROOF DRAIN BOOT SD - 103.

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- W — PROPOSED WATER LINE
- W — EXISTING WATER LINE
- SS — EXISTING SANITARY SEWER LINE
- GAS — EXISTING GAS LINE
- OHE — EXISTING OVERHEAD POWER LINE
- UGE — EXISTING UNDERGROUND POWER LINE
- UGC — EXISTING UNDERGROUND COMMUNNICATIONS LINE
- SD — PROPOSED STORM WATER LINE
- CB — PROPOSED CATCH BASIN
- CO — PROPOSED ROOF DRAIN BOOT WITH CLEAN OUT
- LIMITS OF DISTURBANCE
- CONCRETE SIDEWALK / PAVEMENT
- NEW BUILDING

GRAPHIC SCALE(S)

1"=10' 0' 10' 20'

AECOM

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LEXINGTON CITY HALL RENOVATION

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REGISTRATION

COMMONWEALTH OF VIRGINIA
EUBERTO V. BALLANO
Lic. No. 0402056059
January 24, 2025
PROFESSIONAL ENGINEER

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	01/24/2025	ADDENDUM NO. 1
I	07/25/2024	SCHEMATIC SUBMISSION

KEY PLAN

TN
PN

PROJECT NUMBER

60730109

SHEET TITLE

GRADING & STORMWATER DRAINAGE PLAN

SHEET NUMBER

CG101

NOT FOR CONSTRUCTION

Project Management Initials: Designer:____ Checked:____ Approved:____ ARCH E1 30" x 42"
Last saved by: DAVISB2(2025-01-27) Last Plotted: 2025-01-27
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GENERAL SHEET NOTES

A. CONTRACTOR TO COORDINATE WITH MISS UTILITY AND(OR) UTILITY PROVIDERS TO MARK ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO BEGINNING ANY WORK.

B. MAINTAIN MINIMUM SEPARATION BETWEEN WATER AND SEWER / STORM PIPES AS SHOWN, UNLESS OTHERWISE STATED. WHERE MINIMUM SEPARATION CANNOT BE MAINTAINED CONCRETE CASEMENT MAY BE REQUIRED.

KEYNOTES

1. PROVIDE 6" WATER SERVICE LINE.
2. PROVIDE 2.5" WATER SERVICE LINE.
3. PROVIDE COMMERCIAL METER VAULT. SEE DETAIL D1 ON SHEET CU501.
4. PROVIDE POST INDICATOR VALVE. SEE DETAIL D3 ON SHEET CU501.
5. PROVIDE NEW CONNECTION AT EXISTING WATER MAIN USING TAPPING SLEEVE. SEE DETAIL D6 ON SHEET CU501.
6. PROPOSED 6" WATER SERVICE LINE CROSSING EXISTING SANITARY SEWER MAIN. PROVIDE 18" (MIN.) OF SEPARATION WHERE POSSIBLE. SEE DETAIL G-01 ON SHEET CU501.
7. PROPOSED 2.5" & 6" WATER SERVICE LINES CROSSING EXISTING SANITARY SEWER CLEAN OUT PIPE. PROVIDE 18" (MIN.) OF SEPARATION WHERE POSSIBLE. SEE DETAIL G-01 ON SHEET CU501
8. PROPOSED 2.5" & 6" WATER SERVICE LINES CROSSING PROPOSED STORM DRAIN PIPE. PROVIDE 18" (MIN.) OF SEPARATION WHERE POSSIBLE. SEE DETAIL G-04 ON SHEET CG501.
9. PROVIDE STORM DRAIN SYSTEM (SEE GRADING & STORMWATER DRAINAGE PLAN, SHEET CG101).
10. PROVIDE MECHANICAL EQUIPMENT PAD. SEE DETAIL 7 ON SHEET S-501.
11. PROVIDE GENERATOR PAD. SEE DETAIL 7 ON SHEET S-501.
12. PROVIDE TRANSFORMER PAD. SEE DETAIL 7 ON SHEET S-501. TRANSFORMER PROVIDED AND INSTALLED BY DOMINION POWER.
13. UNDERGROUND POWER TO GENERATOR. PROVIDE CONCRETE ENCASED DUCT BANK. SEE ELECTRICAL DRAWING DETAIL A1 ON SHEET E-504.
14. UNDERGROUND SECONDARY FROM TRANSFORMER FURNISHED AND INSTALLED BY DOMINION ENERGY.
15. UNDERGROUND PRIMARY TO TRANSFORMER FURNISHED AND INSTALLED BY DOMINION ENERGY. 1

LEGEND

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- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
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- LIMITS OF DISTURBANCE
- CONCRETE SIDEWALK / PAVEMENT
- NEW BUILDING

GRAPHIC SCALE(S)

1"=10' 0' 10' 20'

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KEY PLAN

TN
PN

PROJECT NUMBER

60730109

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

CU101

Project Management Initials: Designer:____ Checked:____ Approved:____ ARCH E1 30" x 42"

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GENERAL SHEET NOTES

A. ALL EROSION & SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO ANY DISTURBANCE, AND MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

B. SEE SHEET CC501 FOR ALL EROSION AND SEDIMENT CONTROL DETAILS.

KEYNOTES

1. PROVIDE SILT FENCE AROUND WEST ELEVATION SIDE YARD.
2. PROVIDE SILT FENCE AROUND EAST ELEVATION SIDE YARD AROUND NEW MECHANICAL EQUIPMENT PAD AREA.
3. PROVIDE SRR AT SMALL CONCRETE SPILLWAY IN THE WESTERN CORNER OF PARKING LOT.
4. PROVIDE SRR AROUND EXISTING STORM TRENCH DRAIN AT ADA ACCESS ISLE.
5. PROVIDE SRR AT INLET OF EXISTING CONCRETE DITCH IN EASTERN CORNER OF PARKING LOT.
6. PROVIDE SRR AT EXISTING BASEMENT DOORWAY.
7. PROVIDE SRR ALONG ENTIRE LENGTH OF EXISTING STORM CURB INLET AT THE CORNER OF E WASHINGTON STREET AND FULLER STREET.
8. PROVIDE INLET PROTECTION AT TRENCH DRAIN INLET.
9. PROVIDE INLET PROTECTION AT STORM INLET.
10. PROVIDE INLET PROTECTION AT SLOT DRAIN INLET.
11. PROVIDE OUTLET PROTECTION AT STORM DRAIN OUTFALL.

LEGEND

- SF — SILT FENCE
- SRR — SEDIMENT RETENTION ROLL (SRR)
- IP — INLET PROTECTION
- OP — OUTLET PROTECTION
- TP — TREE PROTECTION
- TS — TEMPORARY SEEDING
- PS — PERMANENT SEEDING
- OHE — EXISTING OVERHEAD POWER LINE
- LIMITS OF DISTURBANCE

GRAPHIC SCALE(S)

1"=10' 0' 10' 20'

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KEY PLAN

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PROJECT NUMBER

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SHEET TITLE

EROSION & SEDIMENT CONTROL PLAN

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AIR DEVICE SCHEDULE

UNIT DATA		BASIS OF DESIGN				GENERAL DATA			
TAG	FUNCTION	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE (IN)	MATERIAL	INTEGRAL VOLUME DAMPER	MAX NC	SCHEDULE NOTES
S3A	CEILING SUPPLY	TITUS	PSS-AA	24 x 24	6	ALUMINUM	Yes	25	AD1
S3B	CEILING SUPPLY	TITUS	PSS-AA	24 x 24	8	ALUMINUM	Yes	25	AD1
R3I	CEILING RETURN	TITUS	50F	24 x 24	22 x 22	ALUMINUM	Yes	25	AD1
R4A	CEILING RETURN	TITUS	50F	6 x 6	6 x 6	ALUMINUM	Yes	25	AD1
G1A	CEILING RETURN	TITUS	PAR-AA	24 x 24	6	ALUMINUM	No	25	AD1
G1B	CEILING RETURN	TITUS	PAR-AA	24 x 24	8	ALUMINUM	No	25	AD1
G1C	CEILING RETURN	TITUS	PAR-AA	24 x 24	10	ALUMINUM	No	25	AD1
G4A	CEILING EXHAUST	TITUS	50F	6 x 6	6 x 6	ALUMINUM	No	25	AD1
SR1	WALL SUPPLY	TITUS	300FL	8 x 8	6 x 6	ALUMINUM	Yes	25	AD1
SR2	WALL SUPPLY	TITUS	300FL	10 x 8	8 x 6	ALUMINUM	Yes	25	AD1
SR6	WALL SUPPLY	TITUS	300FL	12 x 8	8 x 6	ALUMINUM	Yes	25	AD1
SR18	WALL SUPPLY	MADELYN CARTER	MCS-TXB-M	12 x 6	12 x 6	STEEL	Yes	25	AD1
RG9	WALL RETURN	TITUS	350FL	20 x 12	18 x 10	ALUMINUM	No	25	AD1
LS1	CEILING SUPPLY	TITUS	ML-38 WITH MPI-38 PLENUM	48 IN. LONG, 0.75 IN. SLOT, 1 SLOT	6	ALUMINUM	Yes	25	AD1, AD2
LS2	CEILING SUPPLY	TITUS	ML-38 WITH MPI-38 PLENUM	48 IN. LONG, 0.75 IN. SLOT, 2 SLOTS	8	ALUMINUM	Yes	25	AD1, AD2
LS3	CEILING SUPPLY	TITUS	ML-38 WITH MPI-38 PLENUM	48 IN. LONG, 0.75 IN. SLOT, 3 SLOTS	10	ALUMINUM	Yes	25	AD1, AD2
LS4	CEILING SUPPLY	TITUS	ML-38 WITH MPI-38 PLENUM	48 IN. LONG, 0.75 IN. SLOT, 4 SLOTS	12	ALUMINUM	Yes	25	AD1, AD2
LS5	CEILING SUPPLY	TITUS	ML-38 WITH MPI-38 PLENUM	42 IN. LONG, 0.75 IN. SLOT, 4 SLOTS	12	ALUMINUM	Yes	25	AD1, AD2
LPR1	CEILING RETURN	TITUS	MLR-38 WITH MPI-38 PLENUM	48 IN. LONG, 0.75 IN. SLOT, 1 SLOT	8	ALUMINUM	No	25	AD1, AD2
LPR2	CEILING RETURN	TITUS	MLR-38 WITH MPI-38 PLENUM	48 IN. LONG, 0.75 IN. SLOT, 2 SLOTS	8	ALUMINUM	No	25	AD1, AD2
LR2	CEILING RETURN	TITUS	MLR-38	48 IN. LONG, 0.75 IN. SLOT, 2 SLOT	6	ALUMINUM	No	25	AD1
LR4	CEILING RETURN	TITUS	MLR-38	36 IN. LONG, 0.75 IN. SLOT, 4 SLOTS	8	ALUMINUM	No	25	AD1

ELECTRIC RESISTANCE PERIMETER RADIATION SCHEDULE

UNIT DATA			BASIS OF DESIGN		TOTAL CAPACITY	ELECTRICAL DATA		
TAG	LOCATION	TYPE	MANUFACTURER	MODEL	(MBH)	VOLTS	PHASE	SCHEDULE NOTES
RAD-1	204 CONFERENCE ROOM	RADIANT BASEBOARD HEATER	RUNTAL	E3B	4000.0	120	1	
RAD-2	104 TREASURER OPEN OFFICE	RADIANT BASEBOARD HEATER	RUNTAL	E3B	3000.0	120	1	
RAD-3	204 CONFERENCE ROOM	RADIANT BASEBOARD HEATER	RUNTAL	E3B	2500.0	120	1	
RAD-4	204 CONFERENCE ROOM	RADIANT BASEBOARD HEATER	RUNTAL	E3B	3500.0	120	1	
RAD-5	204 CONFERENCE ROOM	RADIANT BASEBOARD HEATER	RUNTAL	E3B	4500.0	120	1	

SCHEDULE NOTES THIS SHEET

AD.01	COLOR SELECTED BY ARCHITECT
AD.02	PROVIDE WITH MANUFACTURER'S MATCHING PLENUM BOX
AH.01	EXTERNAL STATIC PRESSURE DROP DOES NOT INCLUDE COOLING COIL, HEATING COIL, FILTER, MIXING BOX, OR CASING LOSSES.
AH.02	COIL FACE VELOCITY SHALL NOT EXCEED 500 FPM.
AH.03	SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
AH.04	PROVIDE WITH LOW AMBIENT CONTROLS CAPABLE OF OPERATING AT OUTSIDE AMBIENT AIR TEMPERATURE OF -4°F.
AH.05	INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT.
AC.01	SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
AC.02	PROVIDE CAPACITIES AT AHRI RATED CONDITIONS. PROVIDE WITH LOW AMBIENT CONTROLS CAPABLE OF OPERATING AT OUTSIDE AMBIENT AIR TEMPERATURE OF -4°F.
AC.03	INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT.

FAN SCHEDULE

UNIT DATA			BASIS OF DESIGN		PERFORMANCE DATA				MOTOR DATA					GENERAL DATA	
TAG	LOCATION	FUNCTION	MANUFACTURER	MODEL	FAN TYPE	FLOW (CFM)	ESP (IN WG)	DRIVE TYPE	HP	BHP	VOLTS	PHASE	VFD	WEIGHT (LBS)	SCHEDULE NOTES
EF-1	CRAWL SPACE	TOILET EXHAUST	COOK	GN-148	INLINE CENTRIFUGAL	120	0.20	DIRECT	0.20	0.06	120	1	No	12	
EF-2	ATTIC	TOILET EXHAUST	COOK	GN-542	INLINE CENTRIFUGAL	310	0.30	DIRECT	0.20	0.16	120	1	No	26	

DUCTLESS SPLIT SYSTEM SCHEDULE (DX)

INDOOR UNIT DATA			BASIS OF DESIGN		INDOOR COOLING DATA			INDOOR HEATING DATA			OUTDOOR UNIT DATA		OUTDOOR ELECTRICAL DATA				
TAG	LOCATION	TYPE	MANUFACTURER	INDOOR MODEL	AIRFLOW (CFM)	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)	HEAT PUMP	HEATING CAPACITY (MBH)	FILTER (MERV)	TAG	OUTDOOR MODEL	MCA	MOCP	VOLTS	PHASE	SCHEDULE NOTES
ACU-1	217 SERVER ROOM	WALL-MOUNTED	SAMSUNG	ACO18BNADCH/AA	615	18.0	18.0	Yes	20.0	8	ACCU-1	ACO18BXADCH/AA	20	25	208	1	AC.01, AC.02, AC.03
ACU-2	100 VESTIBULE	CABINET	SAMSUNG	ACO12BNJDCH/AA	300	10.2	10.2	Yes	13.0	8	ACCU-2	ACO12BXADCH/AA	11	15	208	1	AC.01, AC.02, AC.03

AIR HANDLING UNIT SCHEDULE (DX)

UNIT DATA		BASIS OF DESIGN		SUPPLY FAN DATA				COOLING COIL						HEATING COIL			FILTER SECTIONS			OUTDOOR UNIT ELECTRICAL DATA					
								CAPACITY		E.A.T.		L.A.T.													
TAG	SERVES	MANUFACTURER	MODEL	TOTAL AIRFLOW (CFM)	MIN OA (CFM)	ESP (IN WG)	VFD	TOTAL (MBH)	SENSIBLE (MBH)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL CAPACITY (MBH)	E.A.T. (°F)	L.A.T. (°F)	PRE-FILTER (MERV)	OUTDOOR UNIT TAG	OUTDOOR UNIT MODEL	VOLTS	PHASE	VFD	MCA	MOCP	SCHEDULE NOTES
AHU-1	BASEMENT	SAMSUNG	AC030BNZDCH/AA	940	50	0.40	No	26.5	25.0	77.4	64.0	55.0	55.0	20.2	69.1	85.0	8	CU-1	AC030BXADCH/AA	208	1	Yes	24	30	AH01, AH02, AH03, AH04, AH05
AHU-2	FIRST FLOOR	SAMSUNG	AC024BNZDCH/AA	560	65	0.20	No	17.2	13.8	78.2	64.0	55.0	55.0	13.9	67.0	85.0	8	CU-2	AC024BNZACH/AA	208	1	Yes	24	30	AH01, AH02, AH03, AH04, AH05
AHU-3	FIRST FLOOR	SAMSUNG	AC024BNZDCH/AA	615	65	0.20	No	18.7	15.3	78.1	64.0	55.0	55.0	14.6	67.4	85.0	8	CU-3	AC024BNZACH/AA	208	1	Yes	24	30	AH01, AH02, AH03, AH04, AH05
AHU-4	FIRST FLOOR	SAMSUNG	AC024BNZDCH/AA	615	60	0.20	No	18.2	15.4	78.2	64.0	55.0	55.0	14.9	67.0	85.0	8	CU-4	AC024BNZACH/AA	208	1	Yes	24	30	AH01, AH02, AH03, AH04, AH05
AHU-5	FIRST FLOOR	SAMSUNG	AC024BNZDCH/AA	610	75	0.20	No	18.8	15.3	78.4	64.0	55.0	55.0	16.0	65.9	85.0	8	CU-5	AC024BNZACH/AA	208	1	Yes	24	30	AH01, AH02, AH03, AH04, AH05
AHU-6	SECOND FLOOR	SAMSUNG	AC042BNZDCH/AA	1090	175	0.40	No	37.9	29.2	79.6	64.0	55.0	55.0	31.3	66.4	85.0	8	CU-6	AC042BNZACH/AA	208	1	Yes	32	40	AH01, AH02, AH03, AH04, AH05
AHU-7	SECOND FLOOR	SAMSUNG	AC036BNZDCH/AA	1275	125	0.40	No	35.5	29.9	79.9	64.0	55.0	55.0	30.4	65.2	85.0	8	CU-7	AC036BNZACH/AA	208	1	Yes	25	35	AH01, AH02, AH03, AH04, AH05

MECHANICAL SPECIFICATIONS
SUBMITTALS:
PROVIDE MANUFACTURER'S CATALOG DATA AND SHOP DRAWINGS FOR THE FOLLOWING,
AIR HANDLING UNITS
FANS
SPLIT-SYSTEM AIR CONDITIONERS
PERIMETER RADIATORS
AIR DEVICES
DDC CONTROLS
TAB REPORT

1. COORDINATION OF WORK:
COORDINATE MECHANICAL WORK WITH OTHER TRADES INVOLVED IN THE CONSTRUCTION PROJECT. PROVIDE DROPS, RISES, OR OFFSETS NOT INDICATED BUT NECESSARY FOR PROPER INSTALLATION OF WORK. CAREFULLY LAY OUT ALL WORK IN ADVANCE TO COORDINATE WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL FEATURES OF CONSTRUCTION. VERIFY AT SITE ALL LOCATIONS, GRADES, ELEVATIONS, AND UTILITY SERVICE CONNECTIONS. MAKE REQUIRED CHANGES OR RELOCATIONS NECESSARY TO RESOLVE ANY CONFLICTS.

2. TESTING AND BALANCING:
TAB CONTRACTOR SHALL BE AN INDEPENDENT TESTING, ADJUSTING, AND BALANCING AGENCY CERTIFIED BY AABC AND/OR NEBB IN THE TESTING AND BALANCING DISCIPLINES REQUIRED FOR THIS PROJECT. AGENCY SHALL HAVE AT LEAST 3 YEARS OF SUCCESSFUL TESTING, ADJUSTING, AND BALANCING EXPERIENCE ON PROJECTS OF SIMILAR SIZE AND COMPLEXITY AS THIS PROJECT. AGENCY SHALL BE THE SINGLE SOURCE OF RESPONSIBILITY FOR TESTING, ADJUSTING, AND BALANCING THE BUILDING MECHANICAL SYSTEMS TO MEET THE DESIGN OBJECTIVES. SERVICES SHALL INCLUDE CHECKING INSTALLATIONS FOR CONFORMITY TO DESIGN, MEASUREMENT AND ESTABLISHMENT OF THE FLOW QUANTITIES OF THE MECHANICAL SYSTEMS AS REQUIRED TO MEET DESIGN SPECIFICATION, AND RECORDING AND REPORTING THE RESULTS.

3. IDENTIFICATION AND LABELS:
PROVIDE AND INSTALL LABELS ON EQUIPMENT. LABELS SHALL BE BLACK WITH WHITE LETTERING. LABELS SHALL BE CLEARLY READABLE FROM A DISTANCE OF 5 FT.
PROVIDE AND INSTALL LABELS INDICATING LOCATION AND MARK OF EQUIPMENT LOCATED ABOVE CEILING REQUIRING ROUTINE MAINTENANCE. LABEL SHALL BE WHITE WITH BLACK LETTERING AND SHALL BE CLEARLY READABLE FROM A DISTANCE OF 5 FT.
PROVIDE PRE-PRINTED, SELF-ADHESIVE PIPE LABELS WITH LETTERING INDICATING SERVICE, AND SHOWING FLOW DIRECTION ACCORDING TO ASME A13.1.
PROVIDE PLASTIC-LAMINATED, SELF-ADHESIVE LABELS. GREEN LABEL WITH WHITE LETTERING FOR SUPPLY, RETURN, AND EXHAUST AIR. LABELS SHALL BE CLEARLY READABLE FROM A DISTANCE OF 5 FT.

4. BUILDING TEMPERATURE CONTROLS:
PROVIDE DIRECT DIGITAL CONTROLS SYSTEM WITH ASHRAE 135 COMMUNICATION PROTOCOL.
PROVIDE WHITE COLOR THERMOSTATS WITH DIGITAL DISPLAY. MOUNT 48" AFF.

SPACE TEMPERATURE SENSORS:
PROVIDE PROGRAMMABLE SPACE TEMPERATURE WITH DIGITAL DISPLAY. PROVIDE WITH USER/OCCUPANT CONTROL OF SPACE TEMPERATURE BETWEEN LOCKABLE HEATING AND COOLING SETPOINTS (68-78°F ADJUSTABLE). PROVIDE WIRED REMOTE TEMPERATURE SENSORS AS INDICATED ON PLANS.

7. PIPING:
COPPER TUBE: ASTM B88, TYPE K, L OR ACR FOR REFRIGERANT PIPING. TYPE M FOR CONDENSATE DRAIN PIPING.
1 1/2" OR SMALLER: ANNEALED COPPER TUBING.
2" OR LARGER: HARD-DRAWN COPPER TUBING.
WROUGHT-COPPER FITTINGS, SOLDER JOINT: ASME B16.22.
WROUGHT-COPPER FITTINGS, BRAZED JOINT: ASME B16.50.
WROUGHT-COPPER UNIONS: ASME B16.22.
SOLDER FILLER METALS: ASTM B32. USE 95-5 TIN ANTIMONY OR ALLOY HB SOLDER TO JOIN COPPER SOCKET FITTINGS ON COPPER PIPE.
BRAZING FILLER METALS: AWS A5.8M/A5.8.
FLEXIBLE CONNECTORS:
- BODY: TIN-BRONZE BELLOWS WITH WOVEN, FLEXIBLE, TINNED-BRONZE-WIRE-REINFORCED PROTECTIVE JACKET.
- END CONNECTIONS: SOCKET ENDS.
- OFFSET PERFORMANCE: CAPABLE OF MINIMUM 3/4-INCH MISALIGNMENT IN MINIMUM 7-INCH- LONG ASSEMBLY.
- WORKING PRESSURE RATING: FACTORY TEST AT MINIMUM 500 PSIG.
- MAXIMUM OPERATING TEMPERATURE: 250 DEG F.

COPPER-TUBE, PRESSURE-SEAL-JOINT FITTINGS FOR REFRIGERANT PIPING:
- STANDARD: UL 207; CERTIFIED BY UL FOR FIELD INSTALLATION. CERTIFICATION AS A UL-RECOGNIZED COMPONENT ALONE IS UNACCEPTABLE.
- HOUSING: COPPER.
- O-RINGS: HNBR COMPATIBLE WITH SPECIFIC REFRIGERANT.
- TOOLS: MANUFACTURER'S APPROVED SPECIAL TOOLS.
- MINIMUM RATED PRESSURE: 700 PSIG

CONDENSATE DRAIN PIPING: PVC, SCHEDULE 80 THREADED FITTINGS: ASTM D2464.

8. HVAC PIPING INSULATION:
ALL INSULATION INSTALLED INDOORS: FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS.
PRODUCTS DO NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.
PRODUCTS THAT COME INTO CONTACT WITH STAINLESS STEEL HAVE A LEACHABLE CHLORIDE CONTENT OF LESS THAN 50 PPM WHEN TESTED IN ACCORDANCE WITH ASTM C871.
FOAM INSULATION MATERIALS DO NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING PROCESS.
FOR REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING PROVIDE ONE OF THE FOLLOWING TYPES OF PIPE INSULATION:
A. CELLULAR GLASS: INORGANIC, INCOMBUSTIBLE, FOAMED OR CELLULATED GLASS WITH ANNEALED, RIGID, HERMETICALLY SEALED CELLS. COMPLY WITH ASTM C552. PREFORMED PIPE INSULATION WITHOUT JACKET: TYPE II, CLASS 1, UNFACED OR FABRICATED SHAPES IN ACCORDANCE WITH ASTM C450, ASTM C585, AND ASTM C1639.
B. FLEXIBLE ELASTOMERIC: CLOSED-CELL, OR EXPANDED-RUBBER MATERIALS; SUITABLE FOR MAXIMUM USE TEMPERATURE BETWEEN MINUS 70 DEG F AND 220 DEG F. COMPLY WITH ASTM C534/C534M, TYPE I, FOR TUBULAR MATERIALS, TYPE II FOR SHEET MATERIALS.

6. DUCTS:
ALL DUCTWORK SHALL BE GALVANIZED STEEL. DUCT SHALL BE FABRICATED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. INSULATE ALL SUPPLY AIR DUCTWORK AND INSULATE RETURN/EXHAUST DUCTWORK LOCATED IN THE ATTIC SPACE. PROVIDED MINERAL OR GLASS FIBER INSULATION COMPLYING WITH ASTM C 553, TYPE II AND ASTM C 1290 TYPE III WITH FACTORY-APPLIED FSK JACKET. INSULATION SHALL HAVE A FLAME-SPREAD INDEX OF 25 OR LESS AND A SMOKE-DEVELOPED RESISTANCE OF 50 OR LESS. THICKNESS OF INSULATION SHALL ENSURE AN R-VALUE GREATER THAN OR EQUAL TO R-6.
FSK JACKET: ALUMINUM-FOIL, FIBERGLASS-REINFORCED SCRIM WITH WHITE KRAFT-PAPER BACKING; COMPLYING WITH ASTM C 1136, TYPE II.

PROVIDE DUCTWORK THAT MEETS THE THE REQUIREMENTS OF SEAL CLASS A.
PRESSURE RATINGS FOR DUCTWORK:
1. OUTSIDE AIR: 6 INCHES WG
2. SUPPLY UPSTREAM OF TU'S: 6 INCHES WG
3. SUPPLY DOWNSTREAM OF TU'S: 1 INCH WG
4. RETURN: -2 INCH WG
5. EXHAUST: -2 INCH WG
6. TRANSFER DUCT: -0.5 INCH WG

7. LINEAR SLOT DIFFUSERS/REGISTER
MATERIAL: ALUMINUM.
FINISH: WHITE.
DIFFUSER DAMPERS: MULTI-POSITION DEFLECTOR BLADES.
PLENUMS: STEEL.

8. LAY IN DIFFUSERS
MATERIAL: ALUMINUM.
FINISH: BAKED ENAMEL, WHITE.
PATTERN:FOUR-WAY FIXED DISCHARGE WITH REMOVABLE CORE.
DAMPERS: RADIAL OPPOSED BLADE.

9. REGISTERS/GRILLES:
MATERIAL: ALUMINUM.
FINISH: BAKED ENAMEL, WHITE.
FACE BLADE ARRANGEMENT:FIXED EGGCRATE GRID SPACED 1/2 INCH APART.
MOUNTING: LAY IN.
DAMPER TYPE: NONE.

10. INLINE EXHAUST FANS:
HOUSING: ALUMINUM
FAN TYPE: CENTRIFUGAL BACKWARD INCLINDED
WHEEL: ALUMINUM
DRIVE: DIRECT DRIVEN MOTOR MOUNTED ON VIBRATION ISOLATION
MOTORS: COMPLY WITH NEMA DESIGNATION, TEMPERATURE RATING, SERVICE FACTOR, ENCLOSURE TYPE, AND EFFICIENCY REQUIREMENTS.
ENCLOSURE TYPE: TOTALLY ENCLOSED, FAN COOLED
EFFICIENCY: PREMIUM EFFICIENT MOTORS AS DEFINED IN NEMA MG 1.

1 11. AIR HANDLING UNIT
CASING JOINTS: HERMETICALLY SEALED AT EACH CORNER AND AROUND ENTIRE PERIMETER.
CONSTRUCTION: GALVANIZED STEEL. CASING INSULATION THICKNESS: 1 INCHES.
PANELS: INSULATED PANELS OF SAME MATERIALS AND THICKNESSES AS CASING.

FILTERS: 2" PLEATED MERV 8 PRE-FILTER.

FAN AND DRIVE ASSEMBLIES: STATICALLY AND DYNAMICALLY BALANCED AND DESIGNED FOR CONTINUOUS OPERATION AT MAXIMUM-RATED FAN SPEED AND MOTOR HORSEPOWER.
FANS: CENTRIFUGAL, GALVANIZED STEEL; MOUNTED ON SOLID-STEEL SHAFT.
DRIVE, DIRECT: FACTORY-MOUNTED, DIRECT DRIVE.
MOTORS: COMPLY WITH NEMA DESIGNATION, TEMPERATURE RATING, SERVICE FACTOR, ENCLOSURE TYPE, AND EFFICIENCY REQUIREMENTS.
ENCLOSURE TYPE: TOTALLY ENCLOSED, FAN COOLED.
EFFICIENCY: PREMIUM EFFICIENT MOTORS AS DEFINED IN NEMA MG 1.
CONTROLLERS, ELECTRICAL DEVICES, AND WIRING: COMPLY WITH REQUIREMENTS FOR ELECTRICAL DEVICES AND CONNECTIONS SPECIFIED IN ELECTRICAL SECTIONS.

REFRIGERANT COIL:
ALUMINUM-PLATE FIN AND SEAMLESS COPPER TUBE IN STEEL CASING WITH EQUALIZING-TYPE VERTICAL DISTRIBUTOR.
POLYMER STRIP SHALL PREVENT ALL COPPER COIL FROM CONTACTING STEEL COIL FRAME OR CONDENSATE PAN.
DX CIRCUIT: SINGLE INVERTER OR SPLIT INTERLACED.
CONDENSATE DRAIN PAN: POLYMER OR GALVANIZED STEEL WITH CORROSION-RESISTANT COATING FORMED WITH PITCH AND DRAIN CONNECTIONS.
COMPRESSOR: SCROLL, HERMETICALLY SEALED, WITH RUBBER VIBRATION ISOLATORS.
MOTOR: VARIABLE SPEED, AND INCLUDES THERMAL- AND CURRENT-SENSITIVE OVERLOAD DEVICES, START CAPACITOR, RELAY, AND CONTACTOR.
ACCUMULATOR: SUCTION TUBE.
CONDENSER COIL: SEAMLESS COPPER-TUBE, ALUMINUM-FIN COIL; CIRCUITED FOR INTEGRAL LIQUID SUBCOOLER, WITH REMOVABLE DRAIN PAN AND BRASS SERVICE VALVES WITH SERVICE PORTS.
CONDENSER FAN: DIRECT-DRIVE, ALUMINUM PROPELLER FAN; WITH PERMANENTLY LUBRICATED, TOTALLY ENCLOSED FAN MOTOR WITH THERMAL-OVERLOAD PROTECTION AND BALL BEARINGS.

SECONDARY CONDENSATE DRAIN PANS:
FABRICATED WITH SINGLE-WALL, GALVANIZED-STEEL SHEET TWO PERCENT SLOPE IN AT LEAST TWO PLANES TO COLLECT CONDENSATE FROM COOLING COILS (INCLUDING COIL PIPING CONNECTIONS, COIL HEADERS, AND RETURN BENDS) AND HUMIDIFIERS, AND TO DIRECT WATER TOWARD DRAIN CONNECTION.

1 12. SPLIT-SYSTEM AIR CONDITIONERS
WALL-MOUNTED AND CABINET UNITS
EVAPORATOR-FAN COMPONENTS:
CABINET: POLYMER OR ENAMELED STEEL WITH REMOVABLE PANELS ON FRONT AND ENDS, AND DISCHARGE POLYMER OR GALVANIZED STEEL DRAIN PANS WITH DRAIN CONNECTION.
REFRIGERANT COIL: COPPER TUBE, WITH MECHANICALLY BONDED ALUMINUM FINS AND THERMAL-EXPANSION VALVE. COMPLY WITH ARI 206/110.
FAN: DIRECT DRIVE, CENTRIFUGAL OR CROSSFLOW.
MOUNT UNIT-MOUNTED DISCONNECT SWITCHES ON EXTERIOR OF UNIT.
DRAIN CONNECTION: LOCATED AT LOWEST POINT OF PAN AND SIZED TO PREVENT OVERFLOW. TERMINATE WITH THREADED NIPPLE ON ONE END OF PAN.
MINIMUM CONNECTION SIZE: NPS 1.
OUTDOOR UNITS
AIR-COOLED, COMPRESSOR-CONDENSER COMPONENTS:
CASING: STEEL, FINISHED WITH BAKED ENAMEL OR POWDER COAT, WITH REMOVABLE PANELS FOR ACCESS TO CONTROLS, WEEP HOLES FOR WATER DRAINAGE, AND MOUNTING HOLES IN BASE. PROVIDE BRASS SERVICE VALVES, FITTINGS, AND GAGE PORTS ON EXTERIOR OF CASING.
COMPRESSOR: HERMETICALLY SEALED WITH CRANKCASE HEATER AND MOUNTED ON VIBRATION ISOLATION DEVICE. COMPRESSOR MOTOR SHALL HAVE THERMAL- AND CURRENT-SENSITIVE OVERLOAD DEVICES, START CAPACITOR, RELAY, AND CONTACTOR.
COMPRESSOR TYPE: SCROLL.
REFRIGERANT COIL: COPPER TUBE, WITH MECHANICALLY BONDED ALUMINUM FINS AND LIQUID SUBCOOLER. COMPLY WITH ARI 206/110.
ACCESSORIES: CONDENSATE PUMP.

9. PERIMETER RADIATORS:
MOUNTING: WALL MOUNTED CABINET.
COLOR: BLACK
ELECTRIC-RESISTANCE HEATING COILS: NICKEL-CHROMIUM HEATING WIRE, FREE OF EXPANSION NOISE AND HUM, MOUNTED IN CERAMIC INSERTS IN A GALVANIZED-STEEL HOUSING; WITH PRIMARY AUTOMATIC, AND SECONDARY MANUAL, RESET THERMAL CUTOUTS. TERMINATE ELEMENTS IN STAINLESS STEEL, MACHINE-STAKED TERMINALS SECURED WITH STAINLESS STEEL HARDWARE.
ACCESSORIES: LOW-VOLTAGE THERMOSTAT WITH LINE-VOLTAGE RELAY.

AECOM

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ISSUE/REVISION

1	01/24/25	ADDENDUM NO. 1
I	01/03/2025	FINAL DESIGN SUBMISSION
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER
60730109

SHEET TITLE
MECHANICAL SCHEDULES

SHEET NUMBER
M-601

READY FOR CONSTRUCTION

POWER DISTRIBUTION

- FUSED DISCONNECT SWITCH. 60 = SWITCH RATING, 40 = FUSE RATING, 3P = NO. OF POLES, 3R = NEMA ENCLOSURE RATING; NO RATING SHOWN INDICATES NEMA 1.
- NON-FUSED DISCONNECT SWITCH. 60= SWITCH RATING, NF = NON-FUSIBLE, 3P = NO. OF POLES, 3R = NEMA ENCLOSURE RATING; NO RATING SHOWN INDICATES NEMA 1.
- TRANSFORMER
- GENERATOR
- AUTOMATIC TRANSFER SWITCH
- REMOTE GENERATOR ANNUNCIATOR PANEL
- PANELBOARD TO BE DEMOLISHED OR RELOCATED
- PANELBOARD - 208Y/120V - MOUNTING TYPE DESIGNATED ON PANEL SCHEDULE
  - NL1D1
  - PANEL DESIGNATION TYPICAL
  - NUMBER DENOTES PANEL SEQUENCE
  - D DENOTES DISTRIBUTION PANEL
    L DENOTES LIGHTING PANEL
    M DENOTES MECHANICAL PANEL
    R DENOTES RECEPTACLE PANEL
    C DENOTES COMMUNICATIONS PANEL
    F DENOTES FIRE ALARM PANEL
  - DENOTES FLOOR NUMBER
  - H DENOTES 480Y/227 VOLTS
    L DENOTES 208Y/120 VOLTS
  - E DENOTES EMERGENCY PANEL CONNECTED TO GENERATOR
    N DENOTES NORMAL POWER PANEL
- HA-1,3 — CIRCUIT HOME RUN. LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS.
- ENCLOSED CIRCUIT BREAKER.
- CONDUIT STUB-UP.
- CONDUIT STUB-DOWN.

POWER DEVICES

ANNOTATION FOR RECEPTACLE AND JUNCTION BOX WIRING DEVICES AND EQUIPMENT CONNECTIONS:

SUBSCRIPTS INDICATE THE FOLLOWING FOR ALL RECEPTACLES, JUNCTION BOXES AND EQUIPMENT CONNECTIONS:

AC	MOUNT ABOVE COUNTER TOP, MH 42"AFF UON.
C	COFFEE MAKER
CO	COPIER
E	EMERGENCY
EX	EXISTING
FH	FUME HOOD
GFI	GROUND FAULT CIRCUIT INTERRUPTER (GFCI)
IM	ICE MAKER
MW	MICROWAVE
O	OCCUPANCY SENSING CONTROLLED RECEPTACLE. SEE SPECIFICATIONS SHEET E-002.
REF	REFRIGERATOR
TV	TELEVISION, COORDINATE MH WITH DISPLAY. SEE INTERIORS FOR DISPLAY LOCATIONS
WC	WATER COOLER
WP	WEATHERPROOF WHILE-IN-USE COVER
XX*	MH AT XX" AFF

- SIMPLEX RECEPTACLE. WALL MOUNT AT 18" AFF TO CENTER UON.
- DUPLEX RECEPTACLE. WALL MOUNT AT 18" AFF TO CENTER UON.
- QUADRAPLEX,TYP OR DOUBLE DUPLEX RECEPTACLE. WALL MOUNT AT 18" AFF TO CENTER UON
- SPECIAL RECEPTACLE WITH NEMA CONFIGURATION. COORDINATE NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER. LEG INDICATES WALL MOUNT AT 18" AFF TO CENTER UON AND CIRCLE INDICATES CEILING MOUNT.
- JUNCTION BOX. PROVIDE CONDUIT, FLEXIBLE CONDUIT CONNECTORS, FITTINGS, ETC. THAT ARE REQUIRED FOR PROPER CONNECTION. LEG INDICATES WALL MOUNT AT 18" AFF TO CENTER UON, RECESSED FLUSH. CIRCLE INDICATES CEILING MOUNT.
- POKE-THRU WITH QUADRAPLEX OR DOUBLE DUPLEX RECEPTACLE AND FOUR (x4) DATA PORTS. SEE DETAIL D1 SHEET E-502.
- $M — MOTOR RATED SWITCH WITH THERMAL OVERLOAD PROTECTION

LIGHTNING PROTECTION

- AIR TERMINAL
- BOND CONNECTION EXOTHERMICALLY WELD, UON.
- DRIVEN GROUND ROD. "TW" INDICATES GROUND ROD TEST AND INSPECTION POCKET.
- G — GROUND CONDUCTOR - DESCRIPTION AS INDICATED.
- RC — ROOF CONDUCTOR - DESCRIPTION AS INDICATED.
- GROUND BAR

SITE

- US — UNDERGROUND SECONDARY, NEW WORK.
- UP — UNDERGROUND PRIMARY, EXISTING.
- UP — UNDERGROUND PRIMARY, NEW WORK.
- T — UNDERGROUND TELECOMMUNICATIONS, EXISTING.
- UTILITY POLE, EXISTING.

LIGHTING

ANNOTATION FOR LIGHTING:

SUBSCRIPTS INDICATE THE FOLLOWING FOR ALL LIGHTING FIXTURES.

A	DENOTES FIXTURE TYPE
OS	DENOTES OCCUPANCY SENSOR
a	DENOTES CONTROL ZONE
#	DENOTES CIRCUIT NUMBER
PC	DENOTES PHOTOCELL CONTROLLED LIGHT FIXTURE

- CEILING MOUNTED RECESSED, SURFACE OR PENDANT MOUNTED LIGHT FIXTURE. DESIGNATION DENOTES TYPE, SEE THE FIXTURE SCHEDULE. SOLID FILL INDICATES EMERGENCY FIXTURE; PROVIDE WITH EMERGENCY DRIVER. CONNECT EMERGENCY BATTERY BACKUP AHEAD OF THE LOCAL SWITCH.
- SQUARE WITH DOT AT END OF FIXTURE INDICATES TO PROVIDE LIGHT FIXTURE WITH INTEGRAL OCCUPANCY SENSOR ON END WITH DOT.
- WALL MOUNTED LIGHT FIXTURE. DESIGNATION DENOTES TYPE, SEE THE FIXTURE SCHEDULE. SOLID FILL INDICATES EMERGENCY FIXTURE; PROVIDE WITH EMERGENCY DRIVER. CONNECT EMERGENCY BATTERY BACKUP AHEAD OF THE LOCAL SWITCH.
- CEILING MOUNTED RECESSED, SURFACE OR PENDANT MOUNTED FIXTURE. DESIGNATION DENOTES TYPE, SEE THE FIXTURE SCHEDULE. SOLID FILL INDICATES EMERGENCY FIXTURE; PROVIDE WITH EMERGENCY DRIVER. CONNECT EMERGENCY BATTERY BACKUP AHEAD OF THE LOCAL SWITCH.
- CEILING MOUNTED EXIT LIGHT. SOLID FILL INDICATES LIT FACE(S). FACE ARROWS INDICATE THE DIRECTION OF TRAVEL TO EXIT
- WALL MOUNTED EXIT LIGHT. SOLID FILL INDICATES LIT FACE(S). FACE ARROWS INDICATE THE DIRECTION OF TRAVEL TO EXIT
- OS a — OCCUPANCY SENSOR. CEILING MOUNTED. SUBSCRIPT 'a' DESIGNATES ZONE CONTROLLED (WHEN PRESENT).
- OS a — WALL MOUNTED OCCUPANCY SENSOR. SUBSCRIPT 'a' DESIGNATES ZONE CONTROLLED (WHEN PRESENT).
- $a — SINGLE POLE SWITCH. SUBSCRIPT 'a' DESIGNATES ZONE CONTROLLED (WHEN PRESENT).
- $3a — 3-WAY SWITCH. SUBSCRIPT 'a' DESIGNATES ZONE CONTROLLED (WHEN PRESENT).
- $Da — TOGGLE DIMMER SWITCH. SUBSCRIPT 'a' DESIGNATES ZONE CONTROLLED (WHEN PRESENT).
- $Pa — TOGGLE PHASE-CUT DIMMER SWITCH. SUBSCRIPT 'a' DESIGNATES ZONE CONTROLLED (WHEN PRESENT).
- $OSa — OCCUPANCY SENSING SWITCH, SINGLE POLE. SUBSCRIPT 'a' DESIGNATES ZONE CONTROLLED (WHEN PRESENT).
- OS a — CORNER MOUNTED OCCUPANCY SENSOR. SUBSCRIPT 'a' DENOTES ZONE CONTROLLED (WHEN PRESENT).
- PC — PHOTOCELL. MOUNT PHOTOCELL ON ROOF.
- HOA — HAND-OFF-AUTO SELECTOR SWITCH.

ONE-LINE DIAGRAM

- CIRCUIT BREAKER
  X INDICATES FRAME SIZE,
  Y INDICATES TRIP RATING,
  Z INDICATES NUMBER OF POLES IF OTHER THAN 3.
- SPD — SURGE PROTECTION DEVICE
- W4N — FEEDER SCHEDULE INDICATOR
- LOAD / EQUIPMENT
- TRANSFORMER
- MOTOR LOAD
- G — GENERATOR
- AUTOMATIC TRANSFER SWITCH
- DRAWOUT BREAKER
  X INDICATES FRAME SIZE,
  Y INDICATES TRIP RATING,
  Z INDICATES NUMBER OF POLES IF OTHER THAN 3.
- C — ONE-LINE DIAGRAM CONTINUATION SYMBOL
- M — SUB-METER WITH PEAK DEMAND AND KWH
- N — NEUTRAL BAR
- G — GROUND BAR

ELECTRICAL GENERAL NOTES - DEMO

1. REMOVE INDICATED ELECTRICAL WORK. REMOVE RACEWAYS, WIRING, AND EQUIPMENT WHERE INSTALLED EXPOSED OR WHERE INSTALLED CONCEALED BEHIND ACCESSIBLE CONSTRUCTION. RACEWAYS THAT CANNOT BE REMOVED AS INDICATED ABOVE SHALL BE ABANDONED IN PLACE AND ASSOCIATED WIRING AND DEVICES SHALL BE REMOVED.
2. ASSOCIATED CIRCUITRY SHALL BE DEFINED TO INCLUDE ALL RACEWAYS, CONDUCTORS, BOXES, WIRING DEVICES, PLATES, LAMPS, LUMINAIRES, SWITCHES, STARTERS, ETC. WHICH ARE ASSOCIATED WITH THE ITEM TO BE REMOVED.
3. THE PROTECTIVE DEVICE SHALL REMAIN AS AN INTEGRAL PART OF THE EXISTING PANEL.
4. WHERE CONDUIT ASSOCIATED WITH AN ITEM TO BE REMOVED IS IN AN INACCESSIBLE AREA, SUCH AS ENCASED IN CONCRETE, THE INACCESSIBLE CONDUIT ONLY SHALL BE ABANDONED IN PLACE, UNLESS INDICATED TO BE REUSED. ALL CONDUCTORS SHALL BE REMOVED AND CONDUIT SHALL BE CUT OFF FLUSH AND CAPPED. LABEL BOTH ENDS OF CONDUIT.
5. WHERE SUCH INACCESSIBLE CONDUIT ENDS OR MUST BE TERMINATED IN FINISHED SPACE, REMOVE THE CONDUIT OR BOX TO BELOW THE FINISHED SURFACE OF WALL, CEILING OR FLOOR, FILL VOID WITH NON-SHRINKING GROUT AND FINISH TO MATCH SURROUNDING SURFACES.
6. WHERE DEMOLITION OF CONDUITS WOULD CREATE OPENINGS IN THE EXTERIOR WALLS OR ROOF THAT WOULD REQUIRE PATCHING, DEMOLISH UP TO 12" OF WALL OR ROOF AND CAP CONDUIT.
7. WHERE A PORTION OF EQUIPMENT IS IDENTIFIED TO BE REMOVED, REMOVE ONLY THAT PORTION AND MAINTAIN REMAINING EQUIPMENT IN GOOD CONDITION FOR RECONNECTION.
8. WHERE EXTENSION OF AN EXISTING CIRCUIT IS REQUIRED TO MAINTAIN SERVICE, RUN CONDUIT AND WIRE AS INDICATED FROM THE CIRCUIT'S EXISTING LOCATION TO ITS NEW LOCATION.
9. REMOVE EQUIPMENT, DEVICES, AND CIRCUITRY ASSOCIATED WITH WORK OF OTHER TRADES; SEE ARCHITECTURAL/INTERIORS, MECHANICAL, PLUMBING, DRAWINGS FOR DETAILS.
10. WHERE AN ITEM OF EQUIPMENT IS INDICATED TO BE RETAINED, REMOVE AND STORE. INFORM OWNER AND ENGINEER OF ANY DEFECTS AT TIME OF REMOVAL.
11. REMOVE ANY ELECTRICAL ASSOCIATED WITH ABANDONED EQUIPMENT OR SYSTEMS.
12. DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND SHALL NOT INTERFERE WITH ACTIVITIES IN OTHER BUILDING AREAS. DEMOLISHED MATERIALS, UNLESS SPECIFICALLY INDICATED TO REMAIN OR BE TURNED OVER TO THE OWNER, SHALL BE PROMPTLY AND APPROPRIATELY REMOVED DISPOSED OF, PARTICULARLY MATERIALS CONTAINING HAZARDOUS MATERIALS SUCH AS LAMPS CONTAINING MERCURY OR TRANSFORMERS CONTAINING PCB'S. CONTRACTOR SHALL COORDINATE APPROPRIATE STAGING AREA WITH THE OWNER. COORDINATE WITH OWNER FOR OWNER-REMOVAL OF PROPERTY FROM THE PROJECT LOCATION. COORDINATE ANY POWER INTERRUPTIONS THAT AFFECT AREAS OUTSIDE THE LIMITS OF WORK WITH OWNER PRIOR A MINIMUM OF TEN WORKING DAYS PRIOR TO WORK.
13. DEMOLITION DRAWINGS AND/OR NOTES ARE BASED ON AS BUILT DRAWINGS AND CASUAL FIELD OBSERVATION AND SCHEMATICALLY INDICATE THE GENERAL SCOPE OF DEMOLITION. THE CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS BEFORE WORK. FAILURE BY THE CONTRACTOR TO HAVE ACQUAINTED HIM/HERSELF WITH AVAILABLE INFORMATION CONCERNING EXISTING CONDITIONS, INCLUDING EXISTING DRAWINGS, SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITIES OF PERFORMANCE OF WORK IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.
14. CONTRACTOR SHALL REPAIR DAMAGE TO THE BUILDING AREAS IDENTIFIED TO REMAIN WHICH OCCURS DURING THE COURSE OF THE DEMOLITION. REPAIR TO MATCH SURROUNDING SURFACES.
15. PROVIDE TEMPORARY POWER FOR EQUIPMENT REQUIRED TO REMAIN OPERATIONAL FOR THE PRESERVATION OF THE BUILDING. EXISTING ELECTRICAL WORK ASSOCIATED WITH SUCH EQUIPMENT SHALL REMAIN UNTIL REPLACEMENT EQUIPMENT IS OPERATIONAL.
16. PERFORM DEMOLITION IN PHASES WHERE INDICATED OR REQUIRED. PROVIDE TEMPORARY SERVICES TO AFFECTED SYSTEMS FROM SOURCES OUTSIDE AFFECTED AREA TO MAINTAIN SERVICE WHERE REQUIRED.
17. WHERE TEMPORARY REMOVAL OF WORK IS REQUIRED TO ACCOMMODATE WORK OF THIS OR OTHER TRADES, REMOVE AND STORE ELECTRICAL ITEMS IN THE PATH OF WORK. REINSTALL AND RECONNECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND/OR AS DIRECTED AFTER COMPLETION OF THE WORK IN THE AREA. PROVIDE TEMPORARY SERVICES SUCH AS EGRESS LIGHTING AND EXIT SIGNAGE AND ASSOCIATED CIRCUITRY TO AN UNAFFECTED APPROPRIATE POWER SOURCE WHERE THE WORK AREA MUST BE MAINTAINED OPEN FOR EGRESS.
18. WHERE CEILINGS ARE REMOVED TEMPORARILY FOR ABOVE-CEILING WORK, REMOVE/STORE OR TEMPORARILY SUPPORT CEILING-MOUNTED DEVICES/EQUIPMENT IN PLACE. REINSTALL AND RECONNECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND/OR AS DIRECTED AFTER COMPLETION OF THE WORK IN THE AREA.

ELECTRCAL GENERAL NOTES - NEW WORK

1. SEE SHEET G-002 FOR ABBREVIATIONS AND SHEET G-003 FOR GENERAL LEGEND.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC VERSION 2020), APPLICABLE NFPA SECTIONS AND ALL OTHER APPLICABLE CODES INCLUDING LOCAL AMENDMENTS.
3. THE DRAWINGS REPRESENT THE DESIGN INTENT. PROVIDE ALL ACCESSORIES AND APPURTENANCES INCLUDING, BUT NOT LIMITED TO, SLEEVES, OPENINGS, SUPPORTS, BOXES, AND PATCHING AS REQUIRED TO EXECUTE THE CONTRACT DOCUMENTS.
4. MOUNTING HEIGHT, UNLESS OTHERWISE NOTED, IS TO CENTER LINE OF EQUIPMENT; EXCEPT MOUNTING HEIGHT OF LIGHTING FIXTURES IS TO BOTTOM OF FIXTURE.
5. MOUNT OUTLET BOXES SO THAT NONE OCCUR BACK TO BACK IN WALLS. COORDINATE DEVICE MOUNTING HEIGHTS WITH DETAIL E3 SHEET E-501, APPROVED CASEWORK SUBMITTALS, ARCHITECTURAL ELEVATIONS AND DETAILS, AND WORK OF OTHER TRADES PRIOR TO INSTALLATION.
6. MECHANICAL EQUIPMENT IS SHOWN IN APPROXIMATE LOCATIONS. FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND PIPING, SEE MECHANICAL DRAWINGS.
7. COORDINATE THE LOCATIONS AND MOUNTING HEIGHTS OF LIGHTING FIXTURES IN MECHANICAL, ELECTRICAL AND ELEVATOR ROOMS WITH THE FINAL LOCATIONS OF PIPES, DUCTS AND OTHER EQUIPMENT FOR BEST ARRANGEMENT. FIXTURES SHALL BE EASILY ACCESSIBLE FOR MAINTENANCE.
8. MOUNT BOTTOM OF WALL-MOUNTED EXIT SIGNS 6" ABOVE THE TOP OF DOOR FRAME.
9. WHERE LIGHT SWITCHES ARE INDICATED TO BE MOUNTED BEHIND DOOR, MOUNT SUCH SWITCHES A MINIMUM OF 3'-9" FROM HINGED SIDE.
10. WHERE MORE THAN ONE SWITCH OCCURS IN HOLLOW METAL FRAME, MOUNT ONE ABOVE THE OTHER WITH TOP SWITCH MOUNTED AT 4'-0".
11. GROUNDING CONDUCTORS ARE NOT INDICATED IN BRANCH CIRCUIT RACEWAYS. PROVIDE GROUND CONDUCTORS AS SPECIFIED.
12. REVISE PANELBOARD SCHEDULES ON AS-BUILT-DRAWING AND PANEL DIRECTORIES TO REFLECT FINAL INSTALLATION CONDITIONS.
13. CONDUIT ROUTING IS PROVIDED FOR DESIGN INTENT UNLESS INDICATED OTHERWISE. COORDINATE ROUTE WITH FIELD CONDITIONS AND WORK OF OTHER TRADES. ROUTE CONDUIT WITHIN BUILDING PARALLEL AND PERPENDICULAR TO THE BUILDING LINES.
14. LOCATE ALL RACEWAYS TO AVOID INTERFERENCE WITH DUCTS, PIPES, MECHANICAL EQUIPMENT, WITH REMOVAL OF CEILING TILES, OR WITH ACCESS TO EQUIPMENT WHICH REQUIRES PERIODIC ADJUSTMENT OR MAINTENANCE.
15. COORDINATE THE LOCATION OF CONDUIT ENTRANCES FOR ALL EQUIPMENT WITH APPROVED SUBMITTALS PRIOR TO INSTALLING THE PATHWAYS TO SERVE THE EQUIPMENT.
16. EXTEND 2-1" EMPTY CONDUITS FROM RECESSED PANELBOARDS TO ABOVE CEILING AND CAP AND LABEL IN AN ACCESSIBLE LOCATION FOR FUTURE USE.
17. PROVIDE PULL BOXES TO FACILITATE CABLE PULLING AT A MINIMUM OF ONE PULL BOX EVERY 100 FEET OF STRAIGHT CONDUIT AND ONE AFTER TWO 90 DEGREE (OR EQUIVALENT) BENDS).
18. SEAL PENETRATIONS THROUGH FLOORS OR RATED PARTITIONS TO MAINTAIN THE INTEGRITY OF THE FIRE AND ACOUSTIC RATINGS. COORDINATE LOCATIONS OF SMOKE/FIRE PARTITIONS WITH LIFE-SAFETY DRAWINGS.
19. STOP CABLE TRAY SHORT OF RATED PARTITIONS. UTILIZE CONDUIT SLEEVES OF EQUIVALENT CAPACITY AND LISTED FIRESTOP ASSEMBLIES TO PENETRATE RATED PARTITIONS.
20. CONDUCTOR QUANTITIES (HASH MARKS) ARE NOT INDICATED ON CONDUIT SYMBOL. PROVIDE CONDUCTORS AS REQUIRED TO ACCOMPLISH INDICATED CIRCUIT INSTALLATION AND SWITCHING AS INDICATED FOR LIGHTING.
21. INDIVIDUAL BRANCH CIRCUITS FROM SIMILAR POWER SOURCE MAY BE CONSOLIDATED UNLESS INDICATED OTHERWISE; CONDUIT FILL AND CONDUCTOR DERATING SHALL BE PER NEC. CONSIDER NEUTRAL CONDUCTORS TO BE CURRENT CARRYING WHEN DERATNG CONDUCTORS.
22. PROVIDE A 4" THICK CONCRETE PAD UNDER ALL FLOOR-MOUNTED ELECTRICAL DISTRIBUTION EQUIPMENT.
23. THE CONTRACTOR BEFORE INSTALLING ANY OF THE WORK SHALL COORDINATE THE CLEARANCES REQUIRED FOR ELECTRICAL EQUIPMENT AND FINISHED COLUMNS, HUNG CEILING, AND PARTITIONS. THE CONTRACTOR IS RESPONSIBLE FOR NEGATIVE CONSEQUENCES RESULTING FROM MISCOORDINATION OF EQUIPMENT.
24. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR RECEPTACLES, SWITCHES, ETC. WITH THE ARCHITECT AND OTHER TRADES PRIOR TO INSTALLATION.
25. VERIFY THE FINAL CONNECTION REQUIREMENTS FOR ALL EQUIPMENT WITH SUPPLIER AND PROVIDE JUNCTION BOXES, RECEPTACLES OR DISCONNECT SWITCHES AS REQUIRED. MAKE ALL CONNECTIONS AS REQUIRED.
26. ALL RACEWAYS RUNNING ACROSS AN EXPANSION JOINT SHALL BE EQUIPPED WITH EXPANSION FITTINGS. FURNISH APPROVED EXPANSION FITTINGS.
27. ALL EXTERIOR ELECTRICAL EQUIPMENT, RACEWAYS AND DEVICES SHALL BE WEATHERPROOF TYPE.
28. FURNISH PULL STRING IN EACH RACEWAY OVER 10'-0" IN LENGTH WHERE PERMANENT WIRE IS NOT INSTALLED. PULL STRING SHALL BE RATED FOR 200LBS.
29. ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE.
30. PROVIDE MINIMUM NUMBER OF LUGS AND NECESSARY PROVISIONS TO ACCOMMODATE FEEDERS.
31. IF A CONFLICT EXISTS WITHIN THE DRAWINGS AND/OR SPECIFICATIONS THE MORE STRINGENT AND MORE COSTLY REQUIREMENT SHALL APPLY. ITEMS SHOWN ON DRAWINGS, BUT NOT SPECIFIED, SHALL APPLY AND BE FURNISHED AND INSTALLED BY THE CONTRACTOR. IF AN ITEM SHOWN ON THE DRAWINGS, BUT IS NOT INCLUDED IN THE SPECIFICATIONS, PROVIDE ITEM OF A QUALITY LEVEL CONSISTENT WITH THE GENERAL QUALITY LEVEL OF THE CONTRACT REQUIREMENTS. BRING CONFLICTS BETWEEN DRAWINGS AND SPECIFICATIONS TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR CLARIFICATION.
32. TYPICAL DETAILS THROUGHOUT THE DRAWING SET SHALL APPLY FOR ALL APPLICABLE CONDITIONS, EVEN IF NOT SPECIFICALLY SHOWN OR REFERENCED.
33. PROVIDE NAMEPLATES ON THE EXTERIOR OF ALL ELECTRICAL PANELS AND ENCLOSURES AS FOLLOWS:

LINE 1: DEVICE ID
LINE 2: DEVICE RATING
LINE 3: POWER SOURCE
LINE 4: INSTALLATION DATE

PANEL L1D1
100A, 208Y/120V - 3ϕ, 4W
FEEDS FROM PANEL MDP
INSTALLED: 2023

FOR DISCONNECT SWITCHES AND MOTOR STARTERS THE TOP LINE SHALL BE THE NAME/DESIGNATION OF THE EQUIPMENT BEING FED BY THE SWITCH/STARTER.

AECOM

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01/24/2025
TREY CLARK
LIC. NO. 6C393
Trey R. Clark
PROFESSIONAL ENGINEER

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	01/24/2025	ADDENDUM NO. 1
I	01/03/2025	FINAL DESIGN SUBMISSION

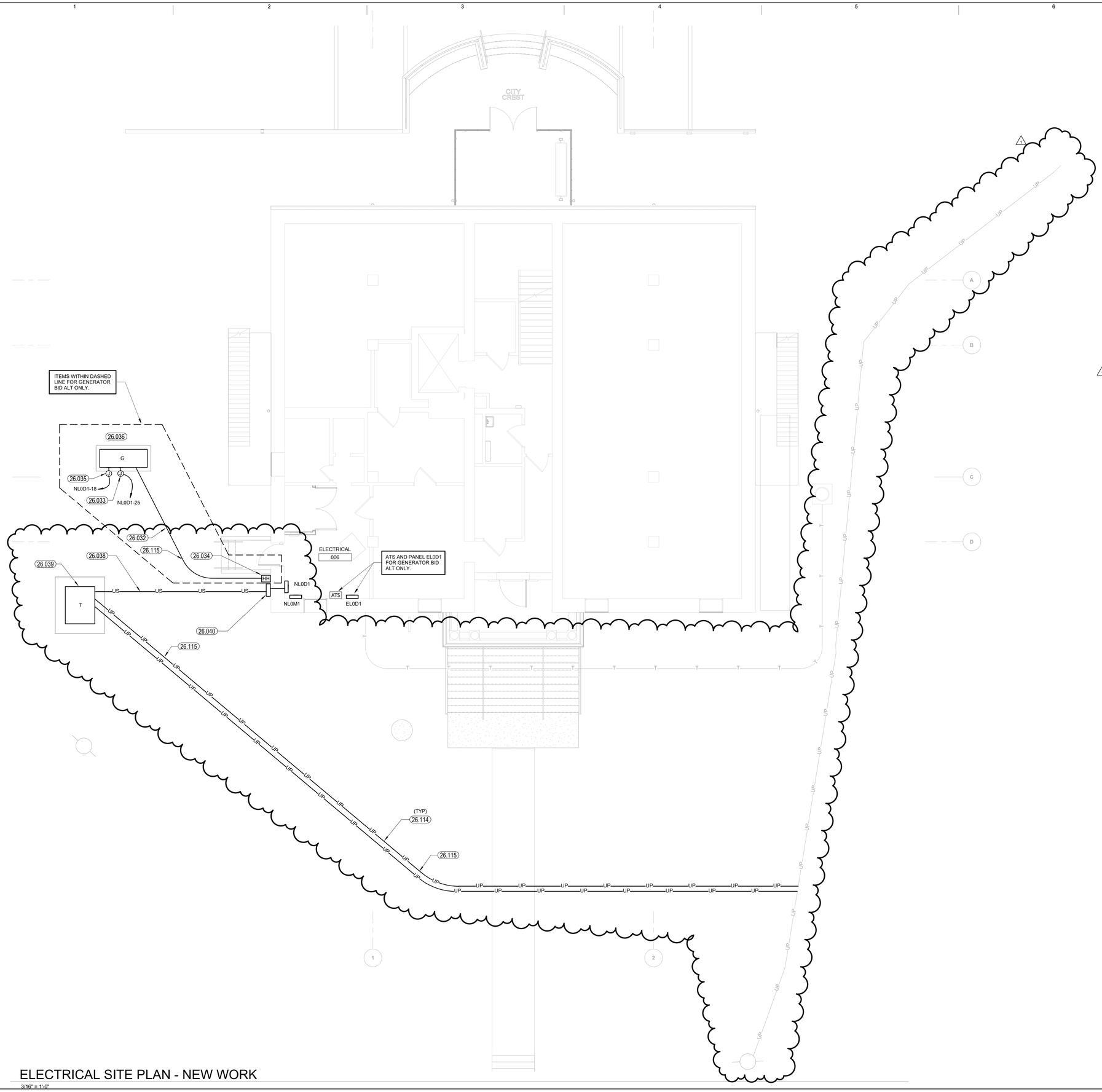
KEY PLAN

PROJECT NUMBER
60730109

SHEET TITLE
ELECTRICAL LEGEND AND GENERAL NOTES

SHEET NUMBER
E-001

READY FOR CONSTRUCTION



ELECTRICAL SITE PLAN - NEW WORK

3/16" = 1'-0"

GENERAL NOTES THIS SHEET:

A. REFER TO SHEET E-001 FOR ELECTRICAL LEGEND AND ADDITIONAL ELECTRICAL GENERAL NOTES. REFER TO SHEET G-002 FOR ABBREVIATIONS AND SHEET G-003 FOR GENERAL SYMBOLS.

B. REFER TO BRANCH CIRCUIT SCHEDULE ON SHEET E-601 FOR WIRING AND CONDUIT REQUIREMENTS FOR CIRCUIT BREAKER TRIP RATED AND FUSES RATED 60 AMPERES AND BELOW.

C. REFER TO FEEDER SCHEDULE - COPPER ON DRAWING E-601 FOR WIRING AND CONDUIT REQUIREMENTS FOR CIRCUIT BREAKER TRIP RATED 70 AMPERES AND ABOVE.

D. TOTAL CIRCUIT VOLTAGE DROP SHALL NOT EXCEED 5%. BRANCH CIRCUIT VOLTAGE DROP SHALL NOT EXCEED 3%. SEE BRANCH CIRCUIT SCHEDULE ON SHEET E-601 FOR MORE INFORMATION.

E. FURNISH JUNCTION BOXES WHERE REQUIRED BY CODE OR WHERE INDICATED OR WHERE REQUIRED TO FACILITATE PULLING WIRES REGARDLESS OF WHETHER SHOWN ON DRAWINGS OR NOT.

F. COORDINATE EXACT LOCATIONS AND REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO INSTALLATION.

G. FINAL LOCATIONS OF POWER SUPPLIES TO SPECIFIC ITEMS OR FIXED EQUIPMENT TO BE COORDINATED WITH FINAL APPROVED EQUIPMENT CUTSHEETS. CONTRACTOR TO USE FINAL EQUIPMENT INFORMATION IN THE PREPARATION OF DIVISION 26 ELECTRICAL SHOP DRAWINGS.

H. FOR DIVISION OF RESPONSIBILITIES BETWEEN UTILITY COMPANY AND CONTRACTOR, SEE DETAIL A3 ON SHEET E-504.

SHEET KEYNOTES:

26.032 PROVIDE CONCRETE ENCASED DUCTBANK. REFER TO DETAIL A1 ON SHEET E-504 AND CIVIL DRAWINGS FOR MORE INFORMATION.

26.033 ELECTRICAL CONNECTION FOR GENERATOR BLOCK HEATER. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

26.034 ROUTE CONDUIT FROM HANDHOLE TO ATS IN ELECTRICAL ROOM 006. REFER TO SHEET E-601 FOR WIRE AND CONDUIT SIZE.

26.035 ELECTRICAL CONNECTION FOR GENERATOR BATTERY CHARGER. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

26.036 PROVIDE GROUNDING FOR GENERATOR PAD IN COORDINATION WITH GROUNDING DETAILS ON SHEET E-504.

26.038 UNDERGROUND SECONDARY FEEDER FURNISHED BY AND INSTALLED BY DOMINION ENERGY.

26.039 150 kVA SERVICE TRANSFORMER AND TRANSFORMER PAD FURNISHED BY AND INSTALLED BY DOMINION ENERGY.

26.040 400A METER BASE. DOMINION ENERGY FURNISHED, CONTRACTOR INSTALLED. MOUNT WITH CENTER OF METER NOT MORE THAN 72" AND NOT LESS THAN 54" ABOVE FINISHED GRADE LEVEL. PROVIDE GROUNDING FOR METER BASE IN ACCORDANCE WITH THE NEC AND WITH DOMINION ENERGY STANDARDS.

26.114 UNDERGROUND PRIMARY FEEDER FURNISHED BY AND INSTALLED BY DOMINION ENERGY.

26.115 COORDINATE WITH EXISTING UNDERGROUND UTILITIES IN THIS AREA. REFER TO CIVIL SHEET CU101 FOR MORE INFORMATION.

AECOM

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CONSULTANTS

REGISTRATION

COMMONWEALTH OF VIRGINIA
01/24/2025
TREY L. CLARK
LIC. NO. 6C393
PROFESSIONAL ENGINEER
Trey R. Clark

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	01/24/2025	ADDENDUM NO. 1
I	01/03/2025	FINAL DESIGN SUBMISSION

KEY PLAN

PROJECT NUMBER

60730109

SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER

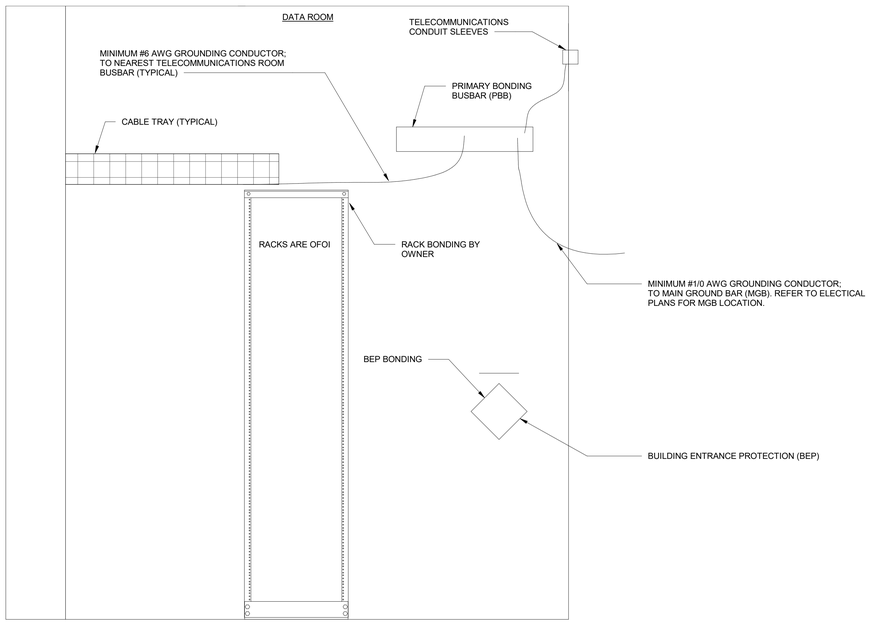
ES101

TN
PN

3/16"=1'-0" 4' 3' 2' 1' 0 4' 8' 12'

GRAPHIC SCALES

READY FOR CONSTRUCTION

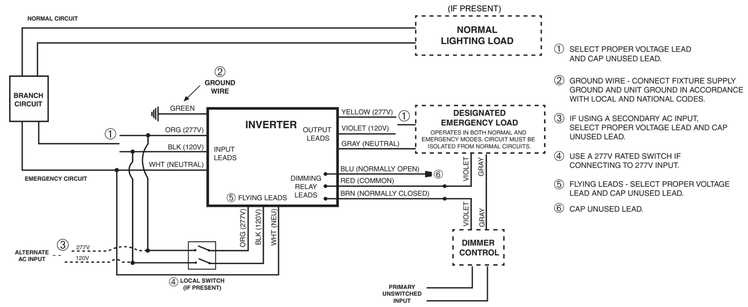


D1 E-504

TYPICAL TELECOMMUNICATIONS ROOM GROUNDING DETAIL

N.T.S.

FIGURE 1 - IIS 125 DR WIRING CONNECTIONS



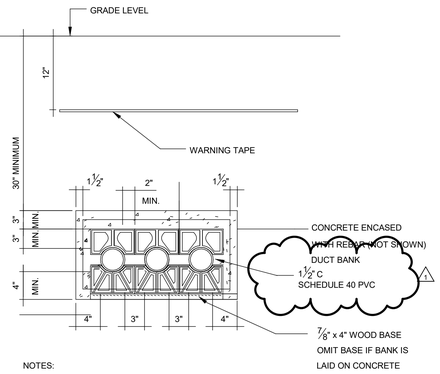
Dimmer Bypass

The Dimming Relay contacts provide electrical continuity during normal power conditions allowing your dimming signal to operate the luminaire in the desired, dimmed state. When the inverter transfers into the emergency mode, the dimming relay contacts electrically open the 0-10 dimming reference signal forcing the luminaire to operate at full lumen output regardless of dimmer setting.

D4 E-504

INVERTER WIRING CONNECTIONS DETAIL

N.T.S.



NOTES:

1. CONCRETE ENCASED
2. MINIMUM 30" FROM TOP OF CONCRETE TO FINISHED GRADE
3. MINIMUM 3" FROM POWER & COMMUNICATIONS UNDER 600V
4. MINIMUM 6" FROM POWER & COMMUNICATIONS OVER 600V
5. POWER & COMMUNICATIONS KEPT SEGREGATED AND NOT GROUPED TOGETHER

A1 E-504

TYPICAL POWER DUCTBANK DETAIL

N.T.S.

DIVISION OF RESPONSIBILITY

DOMINION ENERGY IS THE ELECTRIC UTILITY SERVING THIS PROJECT. THE CONTRACTOR WILL PROVIDE ALL ELECTRIC INFRASTRUCTURE, EQUIPMENT, AND WIRING FOR THE PROJECT UNLESS SPECIFICALLY NOTED AS PROVIDED BY DOMINION ENERGY IN THE DIVISION OF RESPONSIBILITY.

THE ELECTRICAL DISTBUTION SYSTEM SHOWN ON THE PLANS IS COORDINATED WITH DOMINION ENERGY DURING PROJECT DESIGN. FINAL DESIGN REQUIREMENTS TO BE DETERMINED BY DOMINION ENERGY. THE ELECTRICAL DESIGN/ INSTALLATION MUST BE COORDINATED WITH THE COMMUNICATIONS DESIGN/ INSTALLATION.

THE FOLLOWING IS CONTACT INFORMATION FOR DOMINION ENERGY::

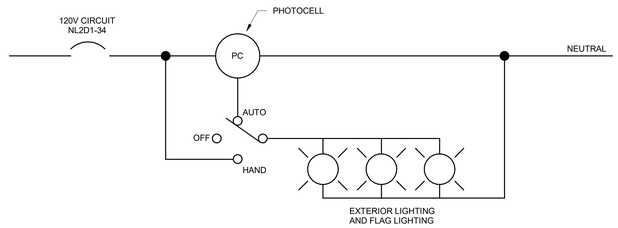
JIM COLEMAN
DOMINION ENERGY
540-460-8929
jim.coleman@dominionenergy.com

		CONTRACTOR		DOMINION ENERGY	
		FURNISHES	INSTALLS	FURNISHES	INSTALLS
T	TRANSFORMER			●	●
T	TRANSFORMER PAD			●	●
	TRANSFORMER PRIMARY LUGS & TERMINATIONS			●	●
	TRANSFORMER SECONDARY LUGS & TERMINATIONS			●	●
	TRANSFORMER PAD GROUNDING			●	●
	TRANSFORMER GROUNDING CONNECTIONS			●	●
UP	PRIMARY CONDUIT			●	●
US	PRIMARY & SECONDARY TRENCH & BACKFILL			●	●
US	SECONDARY CONDUIT			●	●
UP	PRIMARY CABLE			●	●
US	SECONDARY CABLE FROM METERING EQUIPMENT TO MDP	●	●		
US	SECONDARY CABLE FROM TRANSFORMER TO METERING EQUIPMENT			●	●
M	METER			●	●
M	METER BASE		●	●	
	BOLLARDS AT TRANSFORMER	●	●		

A3 E-504

DIVISION OF RESPONSIBILITIES (UTILITY CO. VS CONTRACTOR)

N.T.S.



A5 E-504

EXTERIOR LIGHTING CONTROL

N.T.S.

READY FOR CONSTRUCTION

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PROFESSIONAL ENGINEER

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KEY PLAN

PROJECT NUMBER

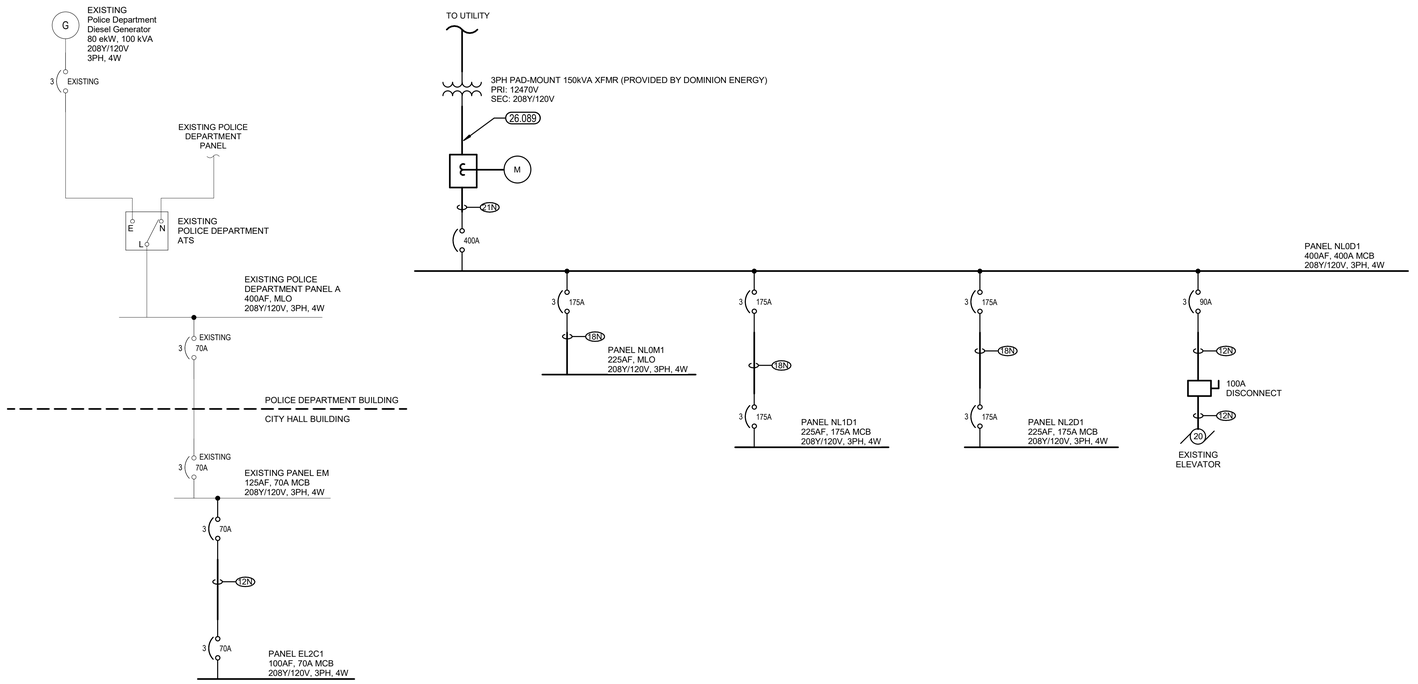
60730109

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E-504



ONE LINE DIAGRAM - NEW WORK (BASE BID)

NTS

GENERAL NOTES THIS SHEET:

A. CONTRACTOR SHALL VERIFY ALL MOTOR CONTROLLERS, OVER CURRENT PROTECTION DEVICES, PANELBOARDS, SWITCHBOARDS, DISCONNECT SWITCHES, ETC. ARE NOTED FOR AVAILABLE FAULT CURRENT REQUIRED. CONTRACTOR SHALL CONFIRM AND PROVIDE COORDINATION SELECTIVITY WITH ALL ELECTRICAL DISTRIBUTION COMPONENTS.

B. EQUIPMENT SHALL BE FULLY RATED. SERIES RATED EQUIPMENT SHALL NOT BE UTILIZED.

C. ALL ELECTRICAL EQUIPMENT SHALL BE COPPER (I.E. BUS, TRANSFORMERS, WIRING, ETC.).

D. SEE PANEL SCHEDULES FOR QUANTITY AND RATINGS OF SPARES AND SPACES.

E. REFER TO THIS SHEET FOR FEEDER SCHEDULE.

SHEET KEYNOTES:

26.089	SECONDARY FEEDER FROM SERVICE TRANSFORMER TO METER BASE FURNISHED AND INSTALLED BY DOMINION ENERGY.

FEEDER SCHEDULE - COPPER

MAXIMUM OCPD	FEEDER NUMBER	NUMBER OF SETS	CONDUCTOR SIZE PHASE(3/C)	CONDUCTOR SIZE NEUTRAL	CONDUCTOR SIZE EQUIPMENT GROUND	CONDUIT SIZE
15	REFER TO THIS SHEET					
20						
25						
30						
40						
45						
50						
60						
70	9	1	4	--	8	1"
	9N			4		1-1/4"
80	10	1	3	--	8	1-1/4"
	10N			3		
90	11	1	3	--	8	1-1/4"
	11N			3		
100	12	1	2	--	8	1-1/4"
	12N			2		
110	13	1	1	--	6	1-1/2"
	13N			1		
125	14	1	1	--	6	1-1/2"
	14N			1		
150	15	1	1/0	--	6	1-1/2"
	15N			1/0		2"
175	16	1	2/0	--	6	2"
	16N			2/0		2"
200	17	1	3/0	--	6	2"
	17N			3/0		

MAXIMUM OCPD	FEEDER NUMBER	NUMBER OF SETS	CONDUCTOR SIZE PHASE(3/C)	CONDUCTOR SIZE NEUTRAL	CONDUCTOR SIZE EQUIPMENT GROUND	CONDUIT SIZE
250	18	1	4/0	--	4	2"
	18N			4/0		2-1/2"
300	19	1	300KCMIL	--	4	2-1/2"
	19N			300KCMIL		3"
350	20	1	400KCMIL	--	3	2-1/2"
	20N			400KCMIL		3"
400	21	1	500KCMIL	--	3	3"
	21N			500KCMIL		3-1/2"
450	22	1	600KCMIL	--	2	3"
	22N			600KCMIL		3-1/2"
500	23	2	250KCMIL	--	2	2-1/2"
	23N			250KCMIL		3"
600	24	2	350KCMIL	--	1	2-1/2"
	24N			350KCMIL		3"
700	25	2	400KCMIL	--	1/0	3"
	25N			400KCMIL		
800	26	2	500KCMIL	--	1/0	3"
	26N			500KCMIL		3-1/2"
1000	27	3	400KCMIL	--	2/0	3"
	27N			400KCMIL		
1200	28	3	600KCMIL	--	3/0	4"
	28N			600KCMIL		
1600	29	4	600KCMIL	--	4/0	3-1/2"
	29N			600KCMIL		
2000	30	5	600KCMIL	--	250KCMIL	3-1/2"
	30N			600KCMIL		4"
2500	31	6	600KCMIL	--	350KCMIL	3-1/2"
	31N			600KCMIL		4"
3000	32	8	500KCMIL	--	400KCMIL	3-1/2"
	32N			500KCMIL		4"
4000	33	10	600KCMIL	--	500KCMIL	3-1/2"
	33N			600KCMIL		4"
5000	34	12	600KCMIL	--	700KCMIL	4"
	34N			600KCMIL		

1. FOR PANELS WITH 200% NEUTRAL PROVIDE A SECOND NEUTRAL CONDUCTOR OF THE SIZE INDICATED. PROVIDE NEXT HIGHEST STANDARD SIZE CONDUIT TO ACCOMMODATE THE INCREASED NEUTRAL.

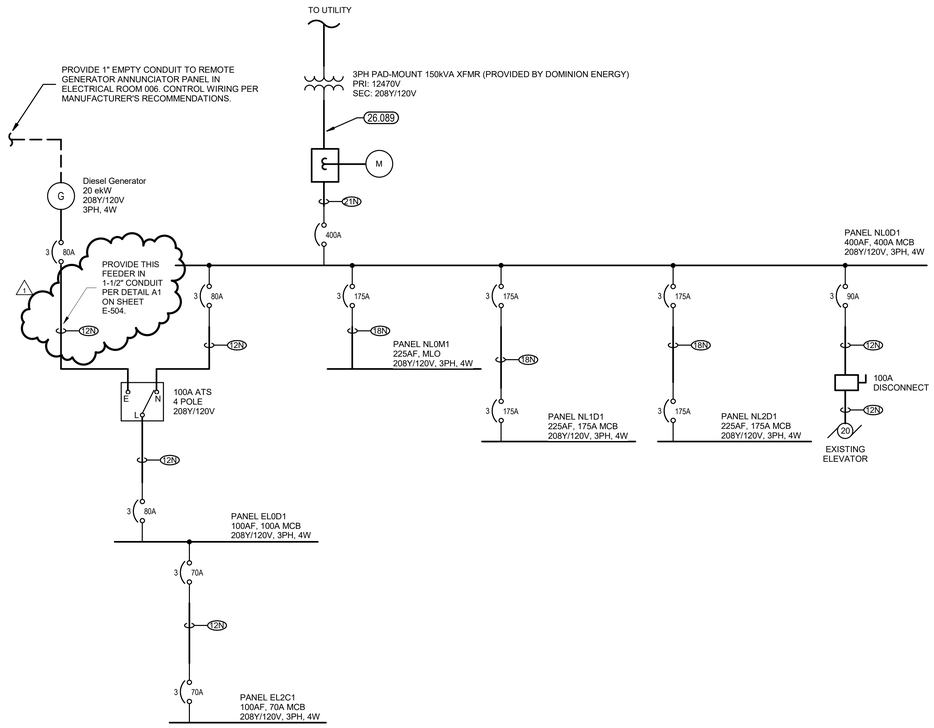
BRANCH CIRCUIT SCHEDULE

CIRCUIT TYPE	CIRCUIT BREAKER	CONDUCTORS	CONDUIT
1 POLE - 1 PHASE 2 WIRE + GROUND	15/20A-1P	2 #12 + 1 #12 G.	3/4"
	30A-1P	2 #10 + 1 #10 G.	3/4"
	40A-1P	2 #8 + 1 #10 G.	3/4"
	50A-1P	2 #6 + 1 #10 G.	3/4"
	60A-1P	2 #4 + 1 #10 G.	1 1/4"
2 POLE - 1 PHASE 2 WIRE + GROUND	15/20A-2P	2 #12 + 1 #12 G.	3/4"
	30A-2P	2 #10 + 1 #10 G.	3/4"
	40A-2P	2 #8 + 1 #10 G.	3/4"
	50A-2P	2 #6 + 1 #10 G.	3/4"
	60A-2P	2 #4 + 1 #10 G.	1 1/4"
2 POLE - 1 PHASE 3 WIRE + GROUND	15/20A-2P	3 #12 + 1 #12 G.	3/4"
	30A-2P	3 #10 + 1 #10 G.	3/4"
	40A-2P	3 #8 + 1 #10 G.	3/4"
	50A-2P	3 #6 + 1 #10 G.	3/4"
	60A-2P	3 #4 + 1 #10 G.	1 1/4"
3 POLE - 3 PHASE 3 WIRE + GROUND	15/20A-3P	3 #12 + 1 #12 G.	3/4"
	30A-3P	3 #10 + 1 #10 G.	3/4"
	40A-3P	3 #8 + 1 #10 G.	3/4"
	50A-3P	3 #6 + 1 #10 G.	3/4"
	60A-3P	3 #4 + 1 #10 G.	1 1/4"
3 POLE - 3 PHASE 4 WIRE + GROUND	15/20A-3P	4 #12 + 1 #12 G.	3/4"
	30A-3P	4 #10 + 1 #10 G.	3/4"
	40A-3P	4 #8 + 1 #10 G.	3/4"
	50A-3P	4 #6 + 1 #10 G.	1"
	60A-3P	4 #4 + 1 #10 G.	1 1/4"

Schedule Notes:

1. CONDUCTOR SIZING BASED ON COPPER CONDUCTORS.
2. TYPE AC AND MC CABLE SHALL NOT BE UTILIZED
3. REFER TO FEEDER SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
4. ALL CONDUCTOR SIZES ARE BASED ON CONDUIT LENGTHS OF 58 FEET FOR 120 VOLT BRANCH CIRCUITS. IF LENGTH EXCEEDS 58 FEET (120V, 20A CIRCUITS), THEN USE WIRE SIZE DENOTED BELOW AND INCREASE CONDUIT SIZE AS REQUIRED BY NEC.
5. ALL VAV BOX CONNECTIONS REQUIRE A NEUTRAL CONDUCTOR.

WIRE SIZE	CONDUCTORS	
	120V CIRCUIT	277V CIRCUIT
#10	58' TO 93'	135' TO 215'
#8	93' TO 147'	240' TO 340'
#6	147' AND ABOVE	340' AND ABOVE



ONE LINE DIAGRAM - NEW WORK (BID ALT)

NTS

AECOM

PROJECT

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CONSULTANTS

REGISTRATION

COMMONWEALTH OF VIRGINIA
01/24/2025
TREY L. CLARK
LIC. NO. 66393
Trey R. Clark
PROFESSIONAL ENGINEER

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	01/24/2025	ADDENDUM NO. 1
I	01/03/2025	FINAL DESIGN SUBMISSION

KEY PLAN

PROJECT NUMBER

60730109

SHEET TITLE

ELECTRICAL ONE-LINE DIAGRAM AND GENERAL SCHEDULES

SHEET NUMBER

E-601

READY FOR CONSTRUCTION