SYMBOL	DESCRIPTION	COMMENTS
S_3	THREE - WAY SWITCH	46" AFF TO CL UO
	FOUR - WAY SWITCH	46" AFF TO CL UO
Sı	ILLUMINATED SWITCH	46" AFF TO CL UO
SA	SINGLE POLE SWITCH; "A" INDICATES SWITCH CONTROL	46" AFF TO CL UO
S _D	SINGLE POLE DIMMER SWITCH	46" AFF TO CL UO
S _{3D}	THREE - WAY DIMMER SWITCH	46" AFF TO CL UO
S _K	SINGLE POLE KEYED SWITCH	46" AFF TO CL UO
S _{K3}	KEYED THREE - WAY SWITCH	46" AFF TO CL UO
S _{K4}	KEYED FOUR - WAY SWITCH	46" AFF TO CL UO
S _M	HORSEPOWER RATED SWITCH, WITH INDICATOR (CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE WITH EQUIPMENT)	46" AFF
S _P	SWITCH AND PILOT LIGHT	
S _T	SWITCH WITH THERMAL OVERLOAD PROTECTION (CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE WITH EQUIPMENT)	
S _{os/vs}	OCCUPANY/VACANCY SENSOR WITH MANUAL OVERRIDE, WALL MOUNT	
TC	TIME CLOCK	
PC	PHOTOCELL	
PB	PUSH BUTTON	
<u> </u>	EMERGENCY SHUT OFF SWITCH; 'E' INDICATES ELECTRICAL; 'G' INDICATES GAS	
os	OCCUPANCY SENSOR, CEILING MOUNT	
	OCCUPANCY SENSOR POWER PACK, MOUNTED ABOVE CEILING	
	2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING	
	5 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING	
	3 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN OR BELOW SLAB	
LP1-35	DEDICATED HOME RUN TO PANEL LP1 FOR CIRCUIT No. 35 ONLY. 2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING	
\ominus	SIMPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH
\rightleftharpoons	DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH
\$	QUAD RECEPTACLE, DOUBLE DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH
⊕ ^c	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "C" INDICATES CEILING MOUNT.	FLUSH
	DUPLEX RECEPTACLE: 120V, 20A; FLOOR MOUNTED.	FLUSH
⊖ IG	ISOLATED GROUND DUPLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH
GFI UC	DUPLEX RECEPTACLE: 120V, 20A; WITH GROUND FAULT INDICATOR. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH
UC CT	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "UC" INDICATES UNDER COUNTER	AS PER ENGINEE
₩P	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "CT" INDICATES COUNTER TOP.	AS PER ENGINEE
\oplus	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "WP" INDICATED WEATHER PROOF	AS PER ENGINEE
208	SPECIAL PURPOSE OUTLET: 208V, VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER.	AS PER ENGINEE
● _TL	TWISTED LOCK RECEPTACLE: 125V, 20A, 3 WIRE; UNLESS OTHERWISE NOTED.	AS PER ENGINEE
	SURFACE RACEWAY WITH 2 GROUNDED AND ISOLATED TYPE DUPLEX RECEPTACLES AND 1 DATA OUTLET PER POSITION, 18" AFF UNLESS OTHERWISE NOTED.	
Ø	TELEPHONE/POWER POLE	
⊠' _{\$1}	MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE	
DS1	DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE.	
<u> </u>	JUNCTION BOX	
J _{4X}	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER.	
① _s	JUNCTION BOX RECESSED IN WALL WITH BLANK COVER, PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING. MOUNT 18" AFF, UNLESS OTHERWISE NOTED.	
(J _{KF}	FOR KEY FOB, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING.	
T _{T1}	TRANSFORMER "T1"; SEE TRANSFORMER SCHEDULE.	
	ELECTRICAL PANEL "P1", RECESSED; SEE PANEL SCHEDULE.	
P1	ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE.	
	CONDUIT GOING UP.	
\cap	CONDUIT COINC DOWN	1

TELEPHONE. PROVIDE CAT-6A CABLE IN 3/4" E.C. TO IT ROOM (219) WITH BOX RECESSED IN WALL WITH RJ11 COVER

CABLE TELEVISION. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J.BOX RECESSED IN WALL TO IT ROOM

COMBINED DATA AND TV. PROVIDE CAT-6A CABLE IN 3/4" E.C. TO IT ROOM (219) WITH BOX RECESSED IN WALL WITH

DATA. PROVIDE CAT-6A CABLE IN 3/4" E.C. TO IT ROOM (219) WITH BOX RECESSED IN WALL WITH RJ45 COVER

SECURITY CAMERA. PROVIDE CA 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH

CT

CH

MLO NTS

UON

VDC

WP

CH

NOITA	DESCRIPTION	SYMBOL	DESCRIPTION	COMMENTS
	ABOVE FINISH FLOOR	(T)	LINE VOLTAGE THERMOSTAT, 120V, 10A.	
	ABOVE FINISH CEILING		CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED.	
	ABOVE FINISH GRADE			
A	AMPERE	□ • /	TRANSFER SWITCH TS1; SEE TRANSFER SWITCH SCHEDULE.	
	AUTOMATIC TRANSFER SWITCH; SEE TRANSFER SWITCH SCHEDULE	*TS1		
	AMERICAN WIRE GUAGE) M.C.B 30A/2P		
	BELOW FINISHED CEILING	PANEL	DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION PANEL SCHEDULE.	
	CENTERLINE			
	COUNTERTOP	•	DISCONNECT SWITCH DS1, 100A, 3 POLES; SEE DISCONNECT SWITCH SCHEDULE.	
	ELECTRICAL CONDUIT	→ / DS3		
	GROUND FAULT CIRCUIT INTERRUPTER	/ 100A/3P	FUSED DISCONNECT SWITCH DS2, FUSED AT 40A, 3 POLES; SEE DISCONNECT SWITCH SCHEDULE	
	GROUND FAULT INDICATOR	$\neg dash$		
	CENTRAL HUDSON (LOCAL ELECTRIC UTILITY)	•		
	MAIN CIRCUIT BREAKER	(G1)	GENERATOR SET G1	
	MAIN LUGS ONLY	M	ELECTRIC METER AND METER PAN AS PER PSEG REQUIREMENTS.	
	NOT TO SCALE		ELECTRIC METER AND METER TAR ACT ER TOLO REGUINEMENTO.	
	UNLESS OTHERWISE NOTED	(5)	MOTOR, NUMBER INDICATED HORSEPOWER.	
	UNDERCOUNTER			
	VOLTS		CURRENT TRANSFORMER.	
	VOLTS ALTERNATING CURRENT	⊢}⊱ pts	VOLTAGE TRANSFORMER.	
	VOLT DIRECT CURRENT	T2	TRANSFORMER WITH SIZE, PRIMARY AND SECONDARY VOLTAGES AS NOTED.	
₹	TRANSFORMER	<u> </u>		
	WEATHERPROOF	RVRM		
	CENTRAL HUDSON (LOCAL UTILITY COMPANY)	10	REDUCED VOLTAGE SOLID STATE RAMPING MODULE, SIZED FOR 10 H.P.	
		RVSS 150	REDUCED VOLTAGE SOLID STATE STARTER, SIZED FOR 150 H.P.	
		VFD 25	VARIABLE FREQUENCY DRIVE, RATED FOR 25 H.P.	
		FVNR 5	FULL VOLTAGE NON-REVERSING STARTER, NEMA SIZE 6	
		FVR	FULL VOLTAGE REVERSING STARTER, NEMA SIZE 5	
		JJS	FAST ACTING SOLID STATE FUSES AS PER MANUFACTURER.	
		}	MULTIPLE BRANCH CIRCUITS AS REQUIRED.	
			CONTROL CIRCUIT; MIN 2 #12 AWG IN 3/4" E.C.	

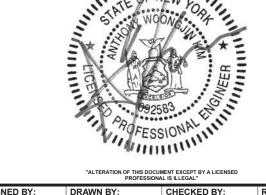
Sheet	- W.O
Number	Full Sheet Name
E1 001.00.	ELECTRICAL LEGENDS PHASE 1
E1 100.00.	FIRST FLOOR & MEZZANINE ELECTRICAL LIGHTING AND POWER PLANS PHASE 1
E1 500.00.	STORAGE BUILDING ELECTRICAL DETAILS PHASE 1
E1 501.00.	STORAGE BUILDING ELECTRICAL DETAILS PHASE 1
E1 502.00.	STORAGE BUILDING ELECTRICAL GENERATOR DETAILS PHASE 1
E1 503.00.	STORAGE BUILDING ELECTRICAL GENERATOR DETAILS PHASE 1
E1 600.00.	STORAGE BUILDING ELECTRICAL SINGLE LINE DIAGRAM PHASE 1
E2 001.00	ELECTRICAL GENERAL NOTES AND LEGENDSNEW FIRE STATION PHASE 2
E2 101A.00	PARTIAL FIRST FLOOR ELECTRICAL POWER PLAN NEW FIRE STATION PHASE 2 PHASE 2
E2 101B.00	PARTIAL FIRST FLOOR ELECTRICAL POWER PLAN NEW FIRE STATION PHASE 2 PHASE 2
E2 102A.00	PARTIAL SECOND / MEZZANINE FLOOR ELECTRICAL POWER PLAN NEW FIRE STATION PHASE 2
E2 102B.00	PARTIAL SECOND FLOOR ELECTRICAL POWER PLAN NEW FIRE STATION PHASE 2
E2 103A.00	PARTIAL ROOF ELECTRICAL POWER PLAN NEW FIRE STATION PHASE 2
E2 103B.00	PARTIAL ROOF ELECTRICAL POWER PLAN NEW FIRE STATION PHASE 2
E2 111A.00	PARTIAL FIRST FLOOR HVAC POWER PLAN NEW FIRE STATION PHASE 2
E2 111B.00	PARTIAL FIRST FLOOR HVAC POWER PLAN NEW FIRE STATION PHASE 2
E2 112A.00	PARTIAL SECOND / MEZZANINE FLOOR HVAC POWER PLAN NEW FIRE STATION PHASE 2
E2 112B.00	PARTIAL SECOND FLOOR HVAC POWER PLAN NEW FIRE STATION PHASE 2
E2 114B.00	ROOF HVAC POWER PLAN NEW FIRE STATION PHASE 2
E2 121A.00	PARTIAL FIRST FLOOR ELECTRICAL LIGHTING PLAN NEW FIRE STATION PHASE 2
E2 121B.00	PARTIAL FIRST FLOOR ELECTRICAL LIGHTING PLAN NEW FIRE STATION PHASE 2
E2 122A.00	PARTIAL SECOND / MEZZANINE FLOOR ELECTRICAL LIGHTING PLAN NEW FIRE STATION PHASE 2
E2 122B.00	PARTIAL SECOND FLOOR ELECTRICAL LIGHTING PLAN NEW FIRE STATION PHASE 2
E2 401.00	ELECTRICAL ENLARGE PLANS NEW FIRE STATION PHASE 2
E2 500.00	ELECTRICAL ELECTRICAL DETAILS BUILDING PHASE 2
E2 501.00	ELECTRICAL DETAILS PHASE 2
E2 502.00	ELECTRICAL GENERATOR DETAILS PHASE 2
E2 503.00	ELECTRICAL GENERATOR DETAILS PHASE 2
E2 600.00	ELECTRICAL SCHEDULES BUILDING PHASE 2
E2 601.00	ELECTRICAL PANEL SCHEDULES NEW FIRE STATION PHASE 2
E2 610.00	ELECTRICAL ELECTRICAL SINGLE LINE DIAGRAM BUILDING PHASE 2
ES 100.00	ELECTRICAL SITE PLAN PHASE 2



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MARK	DATE	DESCRIPTION



SMP/CMP SMP/CMP VGFD2001 JULY 2022

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I)

New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT G GENERAL CONSTRUCTION

REGULATORY REVIEW

ELECTRICAL GENERAL NOTES AND LEGENDSNEW **FIRE STATION** PHASE 2

E2 001.00

CONDUIT GOING DOWN.

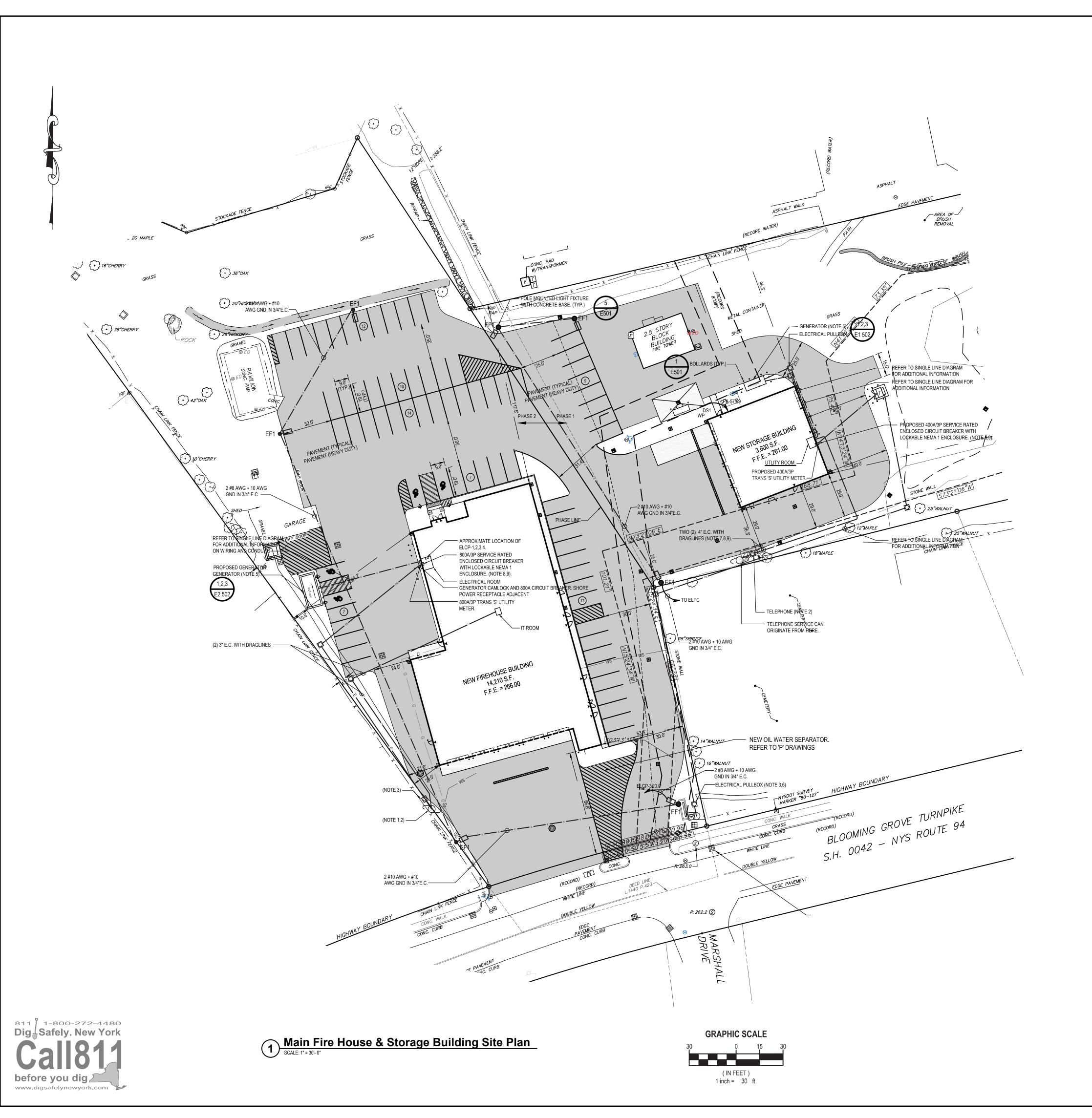
RJ45 COVER PLATE.

BLANK COVER.

(219) WITH BOX RECESSED IN WALL WITH BLANK COVER PLATE.

PULLBOX

PLATE.



SITE PLAN LEGEND		
	CURB	
Q	UTILITY POWER/TELEPHONE POLE	
т——т	NEW TELEPHONE SERVICE	
E	NEW ELECTRICAL LINES	
PE	NEW PRIMARY ELECTRIC SERVICE	
— x — x — x — x —	EXISTING FENCE	
	ELECTRIC PULL BOX	
НН	HANDHOLE	
T	TRANSFORMER	

ELECTRICAL SITE PLAN GENERAL NOTES:

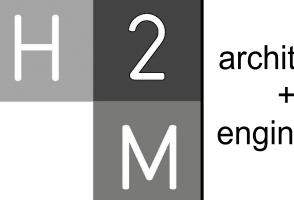
- G1. CONTRACTOR SHALL INSPECT CONSTRUCTION SITE PRIOR TO SUBMISSION OF BIDS AND SHALL MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS
- G2. LOCATION OF ALL UNDERGROUND UTILITIES BOTH PUBLIC AND CUSTOMER OWNED, WERE OBTAINED FROM EITHER MAPS, SURVEYS, DRAWINGS AND RECORDS SUPPLIED BY OTHERS. THE OWNER AND ENGINEER DO NOT GUARANTEE OR ACCEPT RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES DUE TO DISCREPANCIES IN LOCATION AND SIZE SHOWN ON THE PLANS OR THOSE UTILITIES NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PRIVATE MARKOUT COMPANY FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN PROXIMITY OF CONSTRUCTION LIMITS.
- G3. CONTRACTOR SHALL COMPLETELY RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO GRASS AREAS, LANDSCAPING, PAVEMENTS, SIDEWALKS, CURBING AND IN-GROUND SPRINKLER SYSTEMS.
- G4. THE CONTRACTOR SHALL PERFORM DAILY CLEAN-UP OPERATIONS WHICH INCLUDE REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.
- G5. DURING ALL NON-WORKING HOURS, THE CONTRACTOR WILL BE REQUIRED TO STORE ALL EQUIPMENT AND MATERIALS WITHIN THE AREA DESIGNATED BY THE ENGINEER AT THE PROJECT SITE.
- G6. PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.
- G7. CONTRACTOR SHALL MINIMIZE REMOVAL OF EXISTING TREES. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LAYOUT, TAGGING AND REMOVAL OF TREES REQUIRED TO COMPLETE ALL WORK. OWNER SHALL APPROVE TREES TO BE REMOVED PRIOR TO ACTUAL REMOVALS. REMOVALS SHALL INCLUDE REMOVAL OF COMPLETE STUMP AND ROOT SYSTEM. CONTRACTOR NOT PERMITTED TO GRIND STUMPS.
- G8. CONCRETE SIDEWALKS SHALL BE SAWCUT BACK TO EXPANSION/ CONTROL JOINTS.

ELECTRICAL SITE PLAN KEY NOTES:

- 1. NEW ELECTRIC SERVICE RISER AS PER UTILITY REQUIREMENTS.
- 2. NEW TELEPHONE SERVICE RISER AS PER UTILITY REQUIREMENT.
- 4. EXISTING TRANSFORMER POLE MOUNTED BOX AS PER UTILITY REQUIREMENTS.
- 5. NEW GENERATOR AND CONCRETE FOUNDATION.
- 6. NEW PULL BOX. SITE PLAN SHOWS MINIMUM REQUIRED PULL BOXES. PROVIDE ADDITIONAL PULL BOXES AS REQUIRED BY NEC AND UTILITY SERVICE.
- 7. SAWCUT EXISTING PAVEMENT/SIDEWALK/CURBING FOR INSTALLATION OF NEW
- CONDUITS. REMOVE AND DISPOSE OF ALL DEBRIS.
- 8. CONTRACTOR SHALL STUB ALL CONDUITS INTO BUILDINGS BELOW GRADE. NO EXTERIOR CONDUITS PERMITTED TO RUN EXPOSED ON EXTERIOR WALLS. CORE DRILL FOUNDATIONS AS REQUIRED. SEAL ALL CONDUIT PENETRATIONS WITH NON-SHRINK GROUT.
- 9. PROVIDE DUCT SEAL ON INTERIOR OF CONDUITS AND LINK SEAL ON EXTERIOR OF CONDUITS.

NOTE:

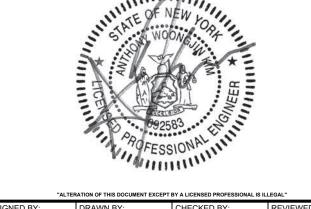
SEE G000.00 FOR PHASE 1 ALTERNATE INFORMATION



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SULTANTS:		

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DESIGNED BY: SMP	DRAWN	BY: SMP	CHECKED BY:		REVIEWED BY: AWK
PROJECT No.: VGFD2001		DATE: JULY	2022	SCALE	AS SHOWN

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT

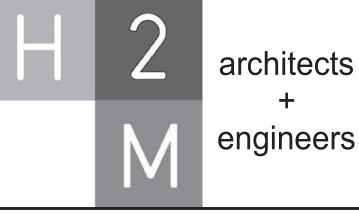
CONTRACT G
GENERAL CONSTRUCTION

FINAL BID DOCUMENT

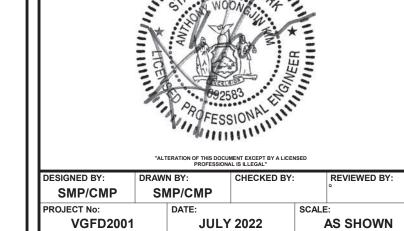
ELECTRICAL SITE PLAN
NEW FIRE STATION
AND STORAGE BUILDING
PHASE 1 AND 2

DRAWING

ES 100.00



MARK	DATE	DESCRIPTION



VAILS GATE FIRE DISTRICT

New Storage Building (Phase I)

New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT G GENERAL CONSTRUCTION

REGULATORY REVIEW

PARTIAL FIRST FLOOR ELECTRICAL **POWER PLAN NEW FIRE STATION PHASE 2** PHASE 2

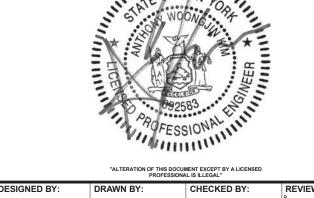
E2 101A.00

Electrical Partial First Floor Power Plan

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

CONSULTANTS:

MARK	DATE	DESCRIPTION
IVIZILALA	DAIL	DESCRIPTION



PROFESSIONAL IS ILLEGAL*

ESIGNED BY: DRAWN BY: CHECKED BY: REVIEWED E

SMP/CMP SMP/CMP

ROJECT No: DATE: SCALE:

VGFD2001 JULY 2022 AS SHOW

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

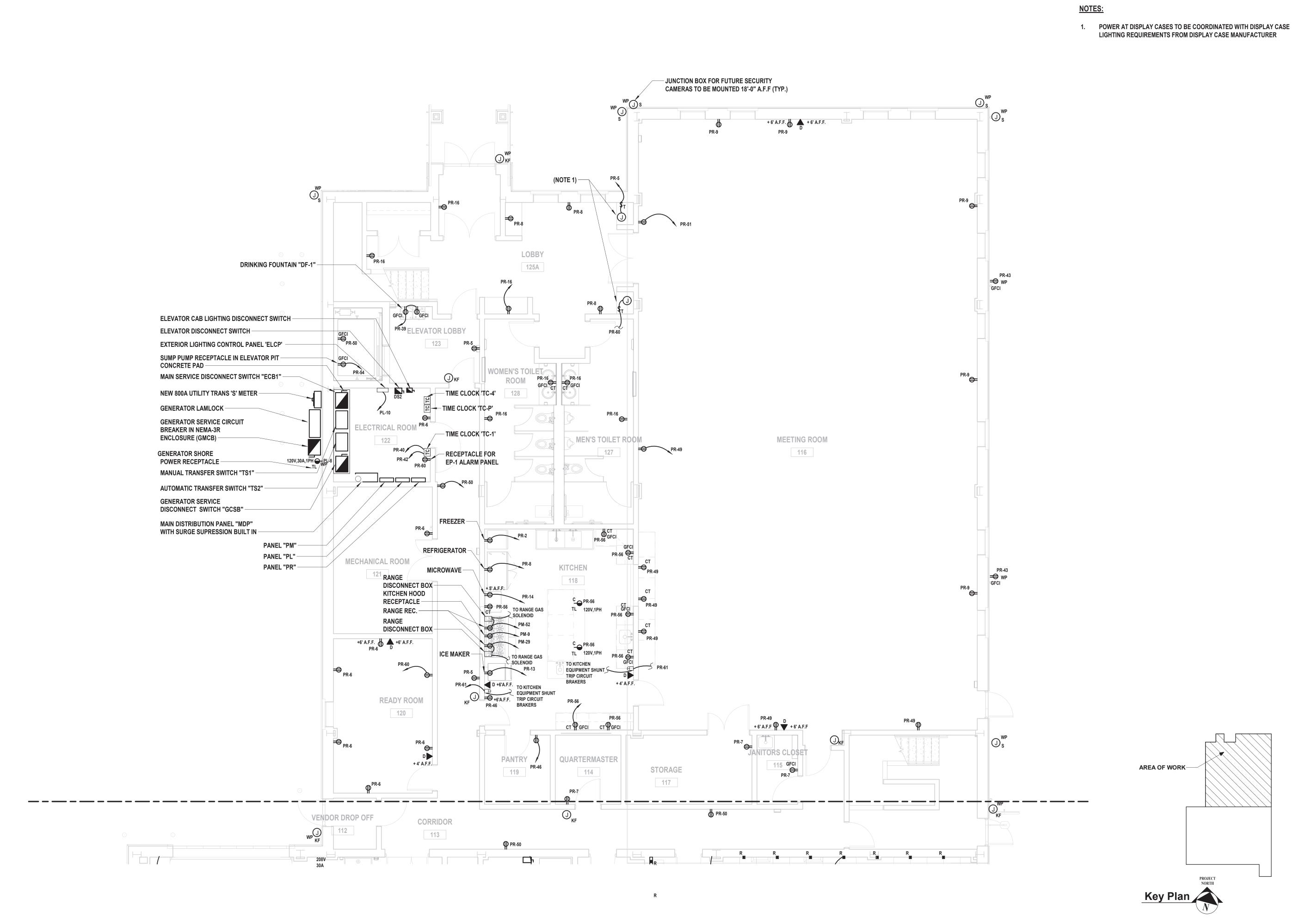
CONTRACT G
GENERAL CONSTRUCTION

REGULATORY REVIEW

SHEET TITLE
PARTIAL FIRST

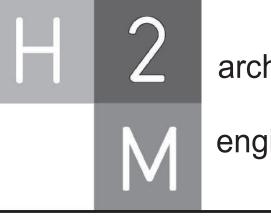
PARTIAL FIRST FLOOR ELECTRICAL
POWER PLAN
NEW FIRE STATION PHASE 2
PHASE 2

E2 101B.00



Electrical Partial First Floor Power Plan

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



ONSULTANTS:	

MARK	DATE	DESCRIPTION



VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



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CONTRACT G
GENERAL CONSTRUCTION

REGULATORY REVIEW

SHEET TITLE

AREA OF WORK-

PARTIAL SECOND / MEZZANINE
FLOOR ELECTRICAL POWER PLAN
NEW FIRE STATION
PHASE 2

E2 102A.00

Electrical Partial Second / Mezzanine Floor Power Plan

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

1. POWER AT DISPLAY CASES TO BE COORDINATED WITH DISPLAY CASE LIGHTING REQUIREMENTS FROM DISPLAY CASE MANUFACTURER

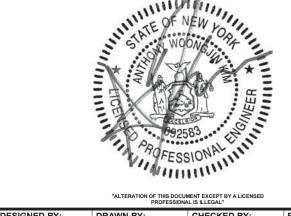
AREA OF WORK-

2. FINAL LOCATIONS OF RECEPTACLES TO BE DETERMINED IN FIELD WITH

architects

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MADIC	DATE	DECODIDEION
MARK	DATE	DESCRIPTION



SMP/CMP **JULY 2022**

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



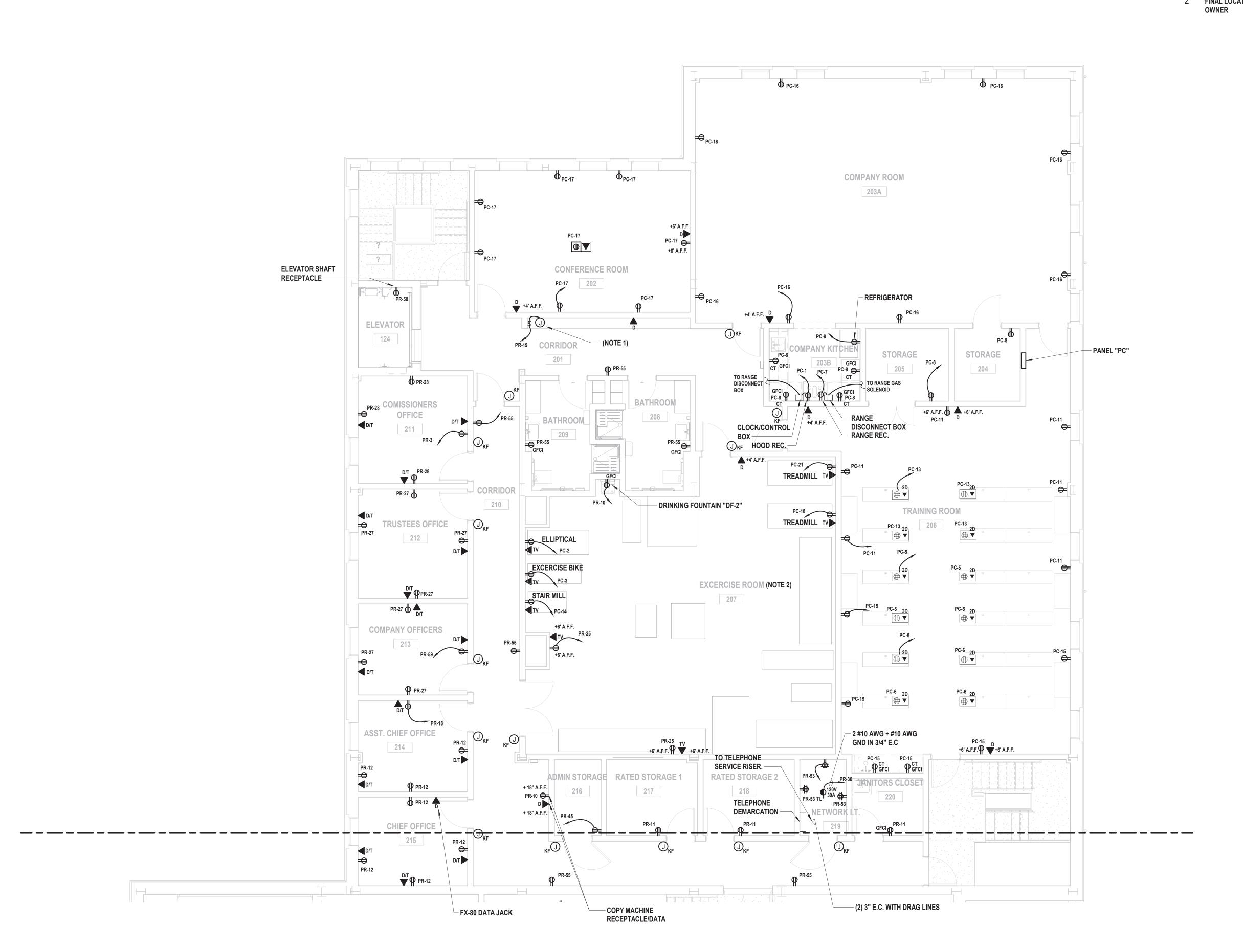
872 Blooming Grove Turnpike New Windsor, NY 12553

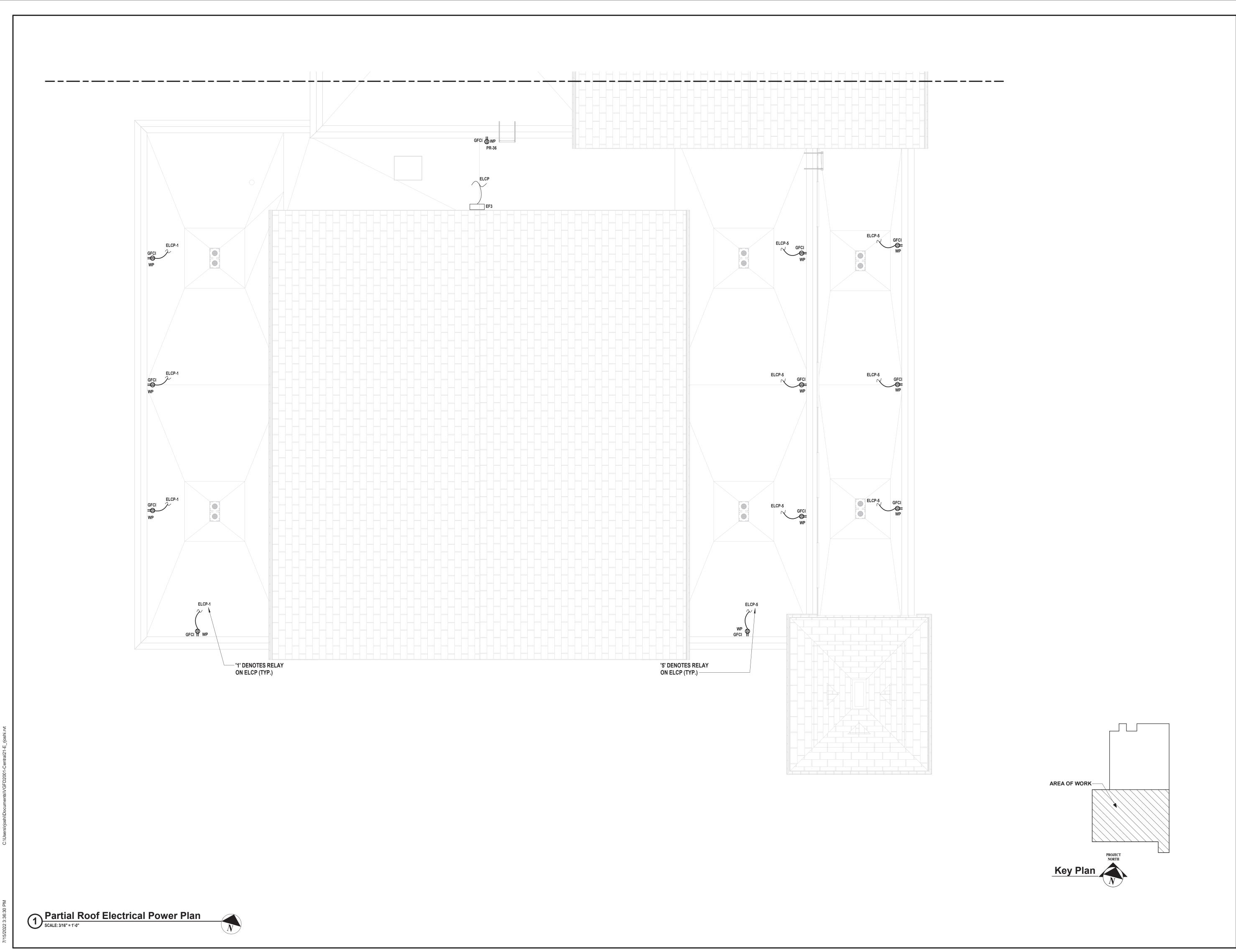
CONTRACT G GENERAL CONSTRUCTION

REGULATORY REVIEW

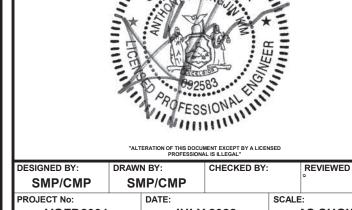
PARTIAL SECOND FLOOR **ELECTRICAL POWER PLAN NEW FIRE STATION** PHASE 2

E2 102B.00





MARK	DATE	DESCRIPTION
	-	
	-	
	-	



VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



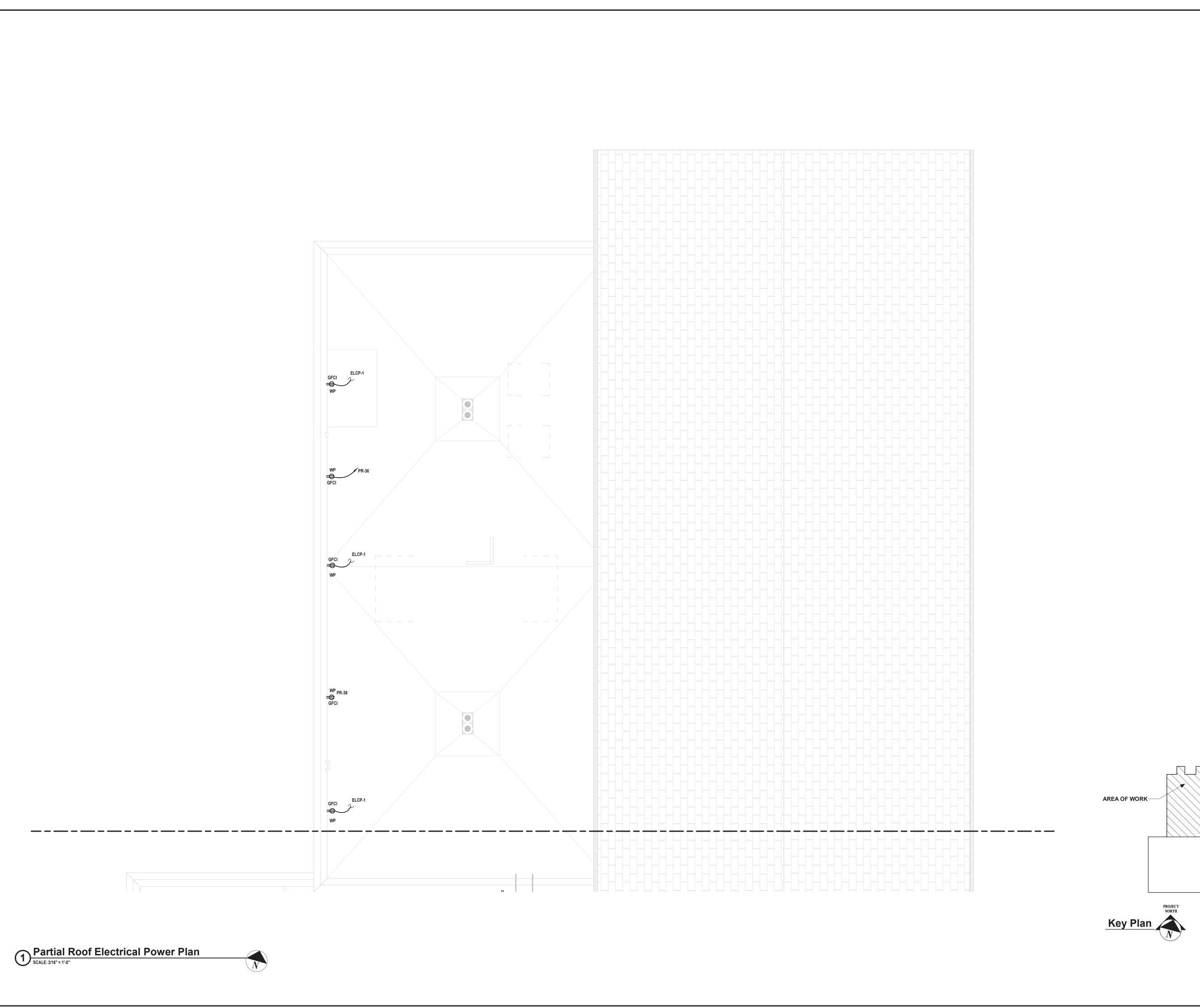
872 Blooming Grove Turnpike New Windsor, NY 12553

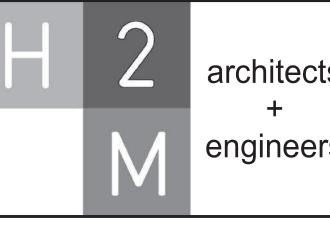
CONTRACT G **GENERAL CONSTRUCTION**

REGULATORY REVIEW

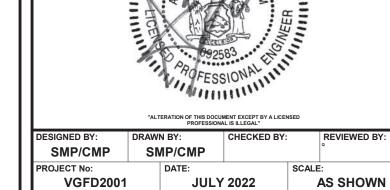
PARTIAL ROOF ELECTRICAL POWER PLAN
NEW FIRE STATION
PHASE 2

E2 103A.00





MARK	DATE	DESCRIPTION



VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT G GENERAL CONSTRUCTION

REGULATORY REVIEW

PARTIAL ROOF ELECTRICAL POWER PLAN
NEW FIRE STATION
PHASE 2

E2 103B.00

H 2 architects + engineers

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CONSULTANTS:

MARK	DATE	DESCRIPTION



VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT G
GENERAL CONSTRUCTION

REGULATORY REVIEW

SHEET TITLE

PARTIAL FIRST FLOOR HVAC POWER
PLAN
NEW FIRE STATION
PHASE 2

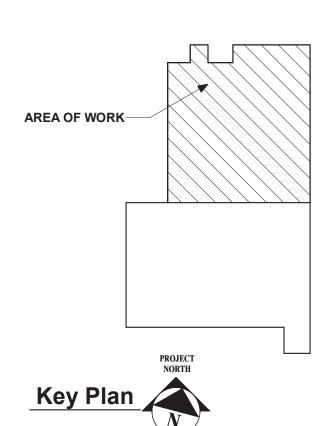
E2 111A.00

VESTIBULE

126

CUH-126 (MANUFACTURER PROVIDED DISCONNECT)

ELEVATOR CONTROL PANEL —

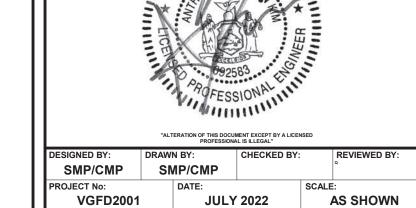


H 2 architect + engineer

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CONSULTANTS:			

MARK	DATE	DESCRIPTION



VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



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CONTRACT G
GENERAL CONSTRUCTION

REGULATORY REVIEW

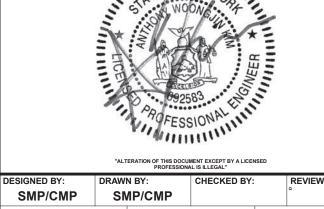
SHEET TITL

PARTIAL FIRST FLOOR HVAC POWER
PLAN
NEW FIRE STATION
PHASE 2

E2 111B.00



MARK	DATE	DESCRIPTION



VGFD2001 **JULY 2022 AS SHOWN**

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I)

New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT G GENERAL CONSTRUCTION

REGULATORY REVIEW

PARTIAL SECOND / MEZZANINE FLOOR HVAC POWER PLAN **NEW FIRE STATION** PHASE 2

E2 112A.00

COMPANY ROOM

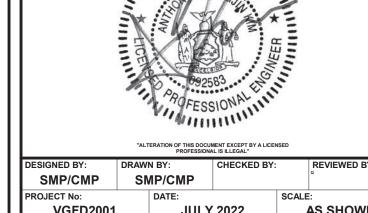
203A



archite engine

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MARK	DATE	DESCRIPTION



VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



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CONTRACT G
GENERAL CONSTRUCTION

REGULATORY REVIEW

SHEET TITLE

AREA OF WORK-

— 2#4 AWG + #8 AWG GND IN 1-1/4" E.C.

OS-3 CONTROL BOX(TBD)

MDP-18,20,22

PARTIAL SECOND FLOOR HVAC
POWER PLAN
NEW FIRE STATION
PHASE 2

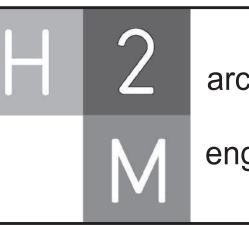
E2 112B.00

CHIEF OFFICE

215

CORRIDOR

210



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VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT G
GENERAL CONSTRUCTION

REGULATORY REVIEW

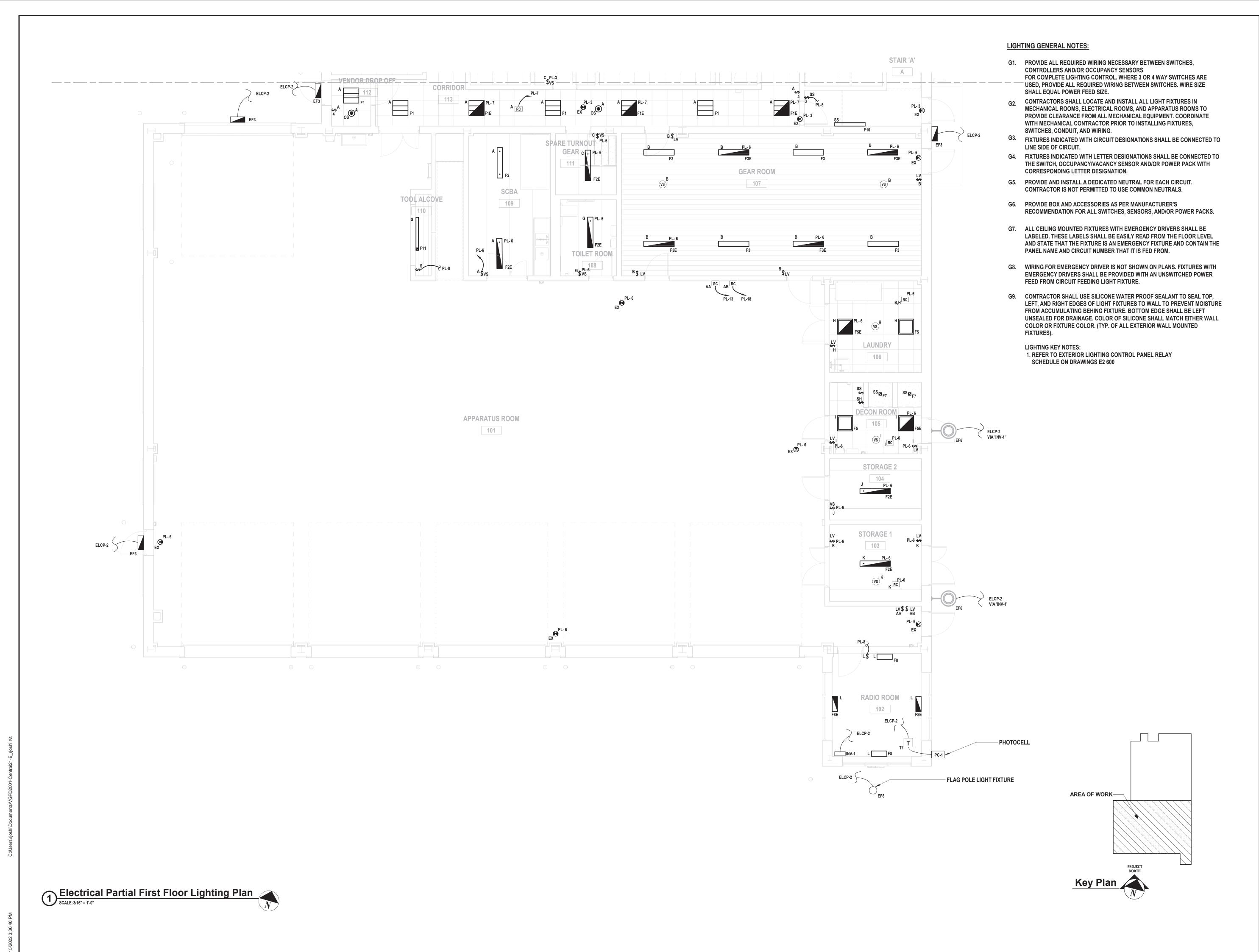
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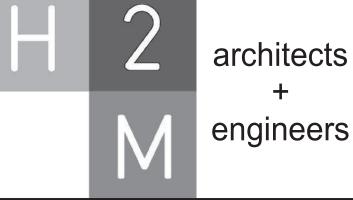
AREA OF WORK-

ROOF HVAC POWER PLAN NEW FIRE STATION PHASE 2

E2 114B.00

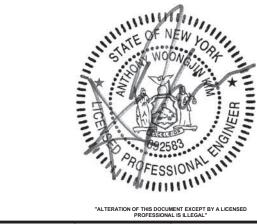
Roof HVAC Power Plan
SCALE: 3/16" = 1'-0"





CONSULTANTS:			

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| CHECKED BY: | CHECKED BY: | REVIEWED BY: | SMP/CMP | SMP/CMP | SMP/CMP | SCALE: | VGFD2001 | JULY 2022 | AS SHOWN

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

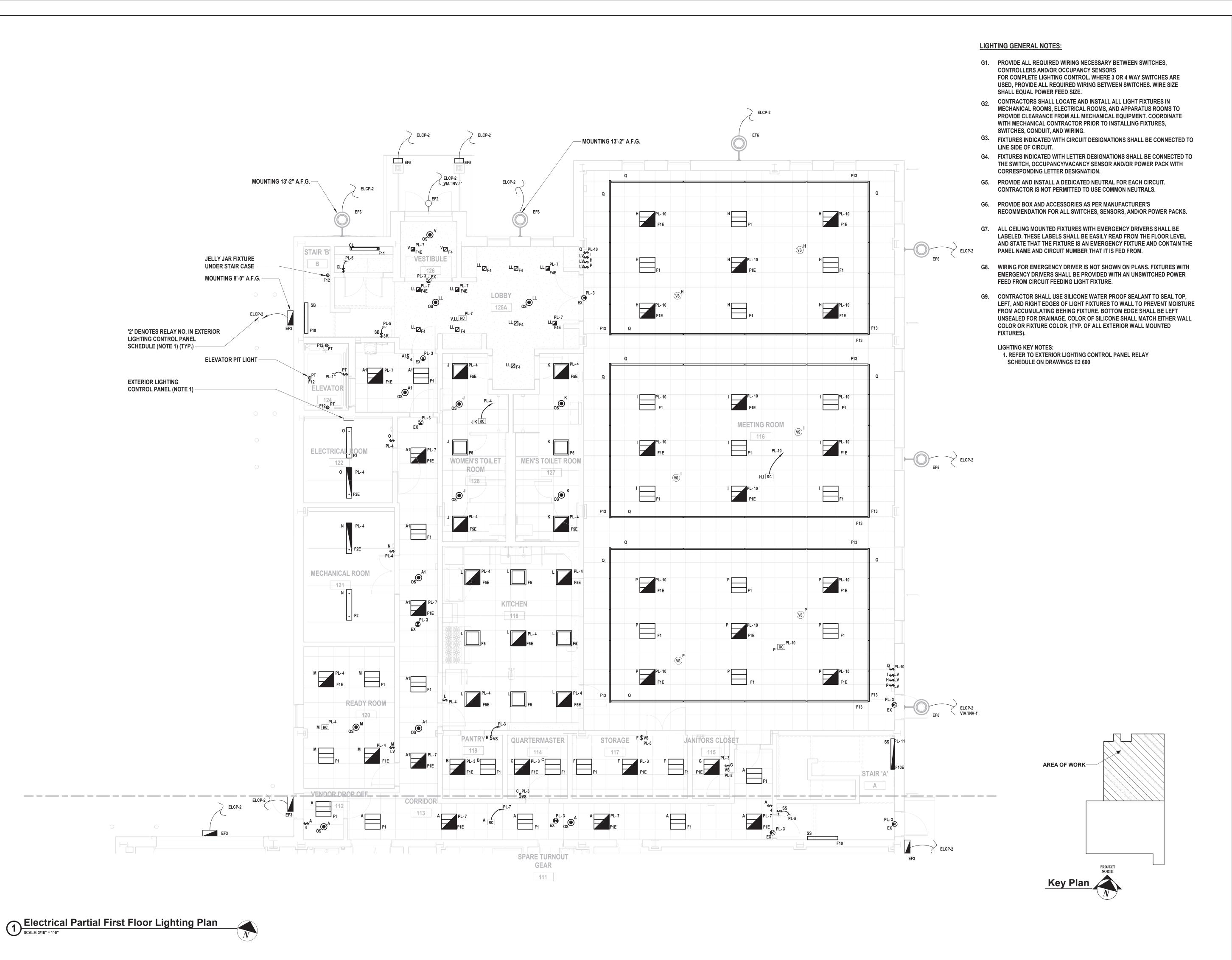
CONTRACT G
GENERAL CONSTRUCTION

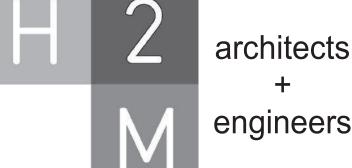
REGULATORY REVIEW

SHEET TITLE

PARTIAL FIRST FLOOR ELECTRICAL
LIGHTING PLAN
NEW FIRE STATION
PHASE 2

E2 121A.00





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VAILS GATE FIRE

DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

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GENERAL CONSTRUCTION

REGULATORY REVIEW

SHEET TITLE

PARTIAL FIRST FLOOR ELECTRICAL
LIGHTING PLAN
NEW FIRE STATION
PHASE 2

E2 121B.00

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LIGHTING GENERAL NOTES:

STAIR 'A'

JANITORS CLOSET

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AA PL-18

ELCP-2

MEZZANINE

- ROOM CONTROLLER

LOCATED ON FIRST

LEVEL (TYP.)

- ROOM CONTROLLER

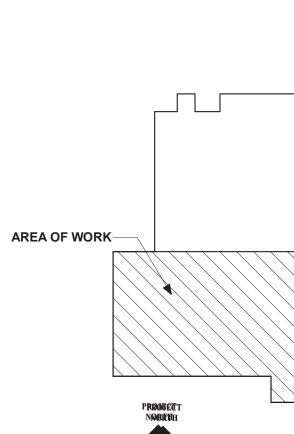
LOCATED ON FIRST

LEVEL (TYP.)

AB 🖟 PL-18

- G1. PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES, CONTROLLERS AND/OR OCCUPANCY SENSORS FOR COMPLETE LIGHTING CONTROL. WHERE 3 OR 4 WAY SWITCHES ARE USED, PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL POWER FEED SIZE.
- G2. CONTRACTORS SHALL LOCATE AND INSTALL ALL LIGHT FIXTURES IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND APPARATUS ROOMS TO PROVIDE CLEARANCE FROM ALL MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLING FIXTURES, SWITCHES, CONDUIT, AND WIRING.
- G3. FIXTURES INDICATED WITH CIRCUIT DESIGNATIONS SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.
- G4. FIXTURES INDICATED WITH LETTER DESIGNATIONS SHALL BE CONNECTED TO THE SWITCH, OCCUPANCY/VACANCY SENSOR AND/OR POWER PACK WITH CORRESPONDING LETTER DESIGNATION.
- G5. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO USE COMMON NEUTRALS.
- G6. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES, SENSORS, AND/OR POWER PACKS.
- G7. ALL CEILING MOUNTED FIXTURES WITH EMERGENCY DRIVERS SHALL BE LABELED. THESE LABELS SHALL BE EASILY READ FROM THE FLOOR LEVEL AND STATE THAT THE FIXTURE IS AN EMERGENCY FIXTURE AND CONTAIN THE PANEL NAME AND CIRCUIT NUMBER THAT IT IS FED FROM.
- G8. WIRING FOR EMERGENCY DRIVER IS NOT SHOWN ON PLANS. FIXTURES WITH EMERGENCY DRIVERS SHALL BE PROVIDED WITH AN UNSWITCHED POWER FEED FROM CIRCUIT FEEDING LIGHT FIXTURE.
- G9. CONTRACTOR SHALL USE SILICONE WATER PROOF SEALANT TO SEAL TOP. LEFT, AND RIGHT EDGES OF LIGHT FIXTURES TO WALL TO PREVENT MOISTURE FROM ACCUMULATING BEHING FIXTURE. BOTTOM EDGE SHALL BE LEFT UNSEALED FOR DRAINAGE. COLOR OF SILICONE SHALL MATCH EITHER WALL COLOR OR FIXTURE COLOR. (TYP. OF ALL EXTERIOR WALL MOUNTED

LIGHTING KEY NOTES: 1. REFER TO EXTERIOR LIGHTING CONTROL PANEL RELAY SCHEDULE ON DRAWINGS E2 600



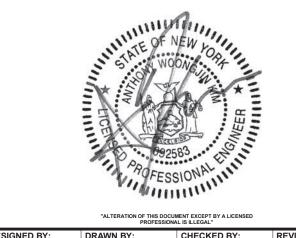


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New Storage Building (Phase I) New Fire Station (Phase II)



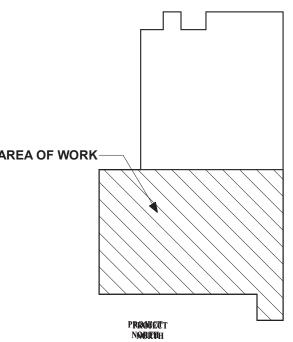
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CONTRACT G GENERAL CONSTRUCTION

REGULATORY REVIEW

PARTIAL SECOND / MEZZANINE FLOOR ELECTRICAL LIGHTING PLAN **NEW FIRE STATION** PHASE 2

E2 122A.00



LIGHTING GENERAL NOTES:

Q F1

STORAGE

TRAINING ROOM

J \$VS PL-11 STORAGE U\$LV

COMPANY ROOM

CONFERENCE ROOM

BATHROOM

EXCERCISE ROOM

ADMIN STORAGE RATED STORAGE 1

PT **⊕** F12

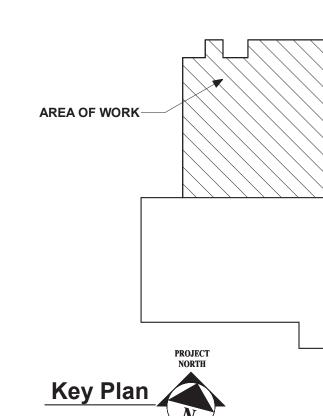
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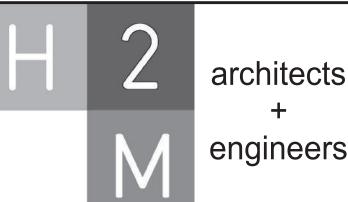
212

OFFICE

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LIGHTING KEY NOTES: 1. REFER TO EXTERIOR LIGHTING CONTROL PANEL RELAY SCHEDULE ON DRAWINGS E2 600





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New Storage Building (Phase I) New Fire Station (Phase II)



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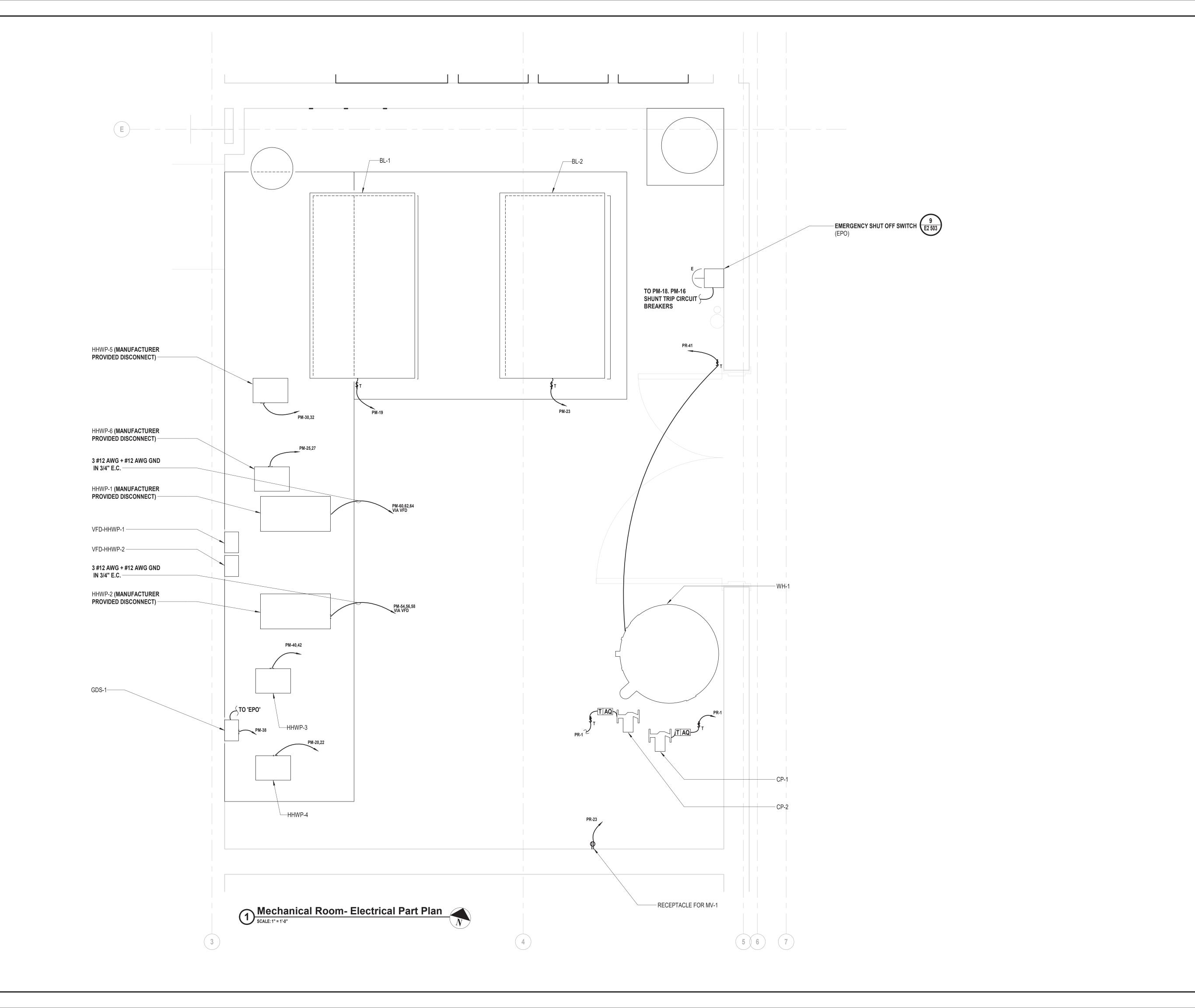
CONTRACT G GENERAL CONSTRUCTION

REGULATORY REVIEW

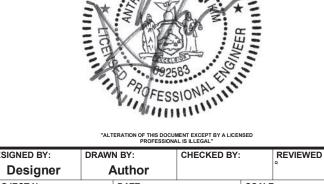
PARTIAL SECOND FLOOR **ELECTRICAL LIGHTING PLAN NEW FIRE STATION** PHASE 2

E2 122B.00





MARK	DATE	DESCRIPTION



Designer VGFD2001 **JULY 2022 AS SHOWN**

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



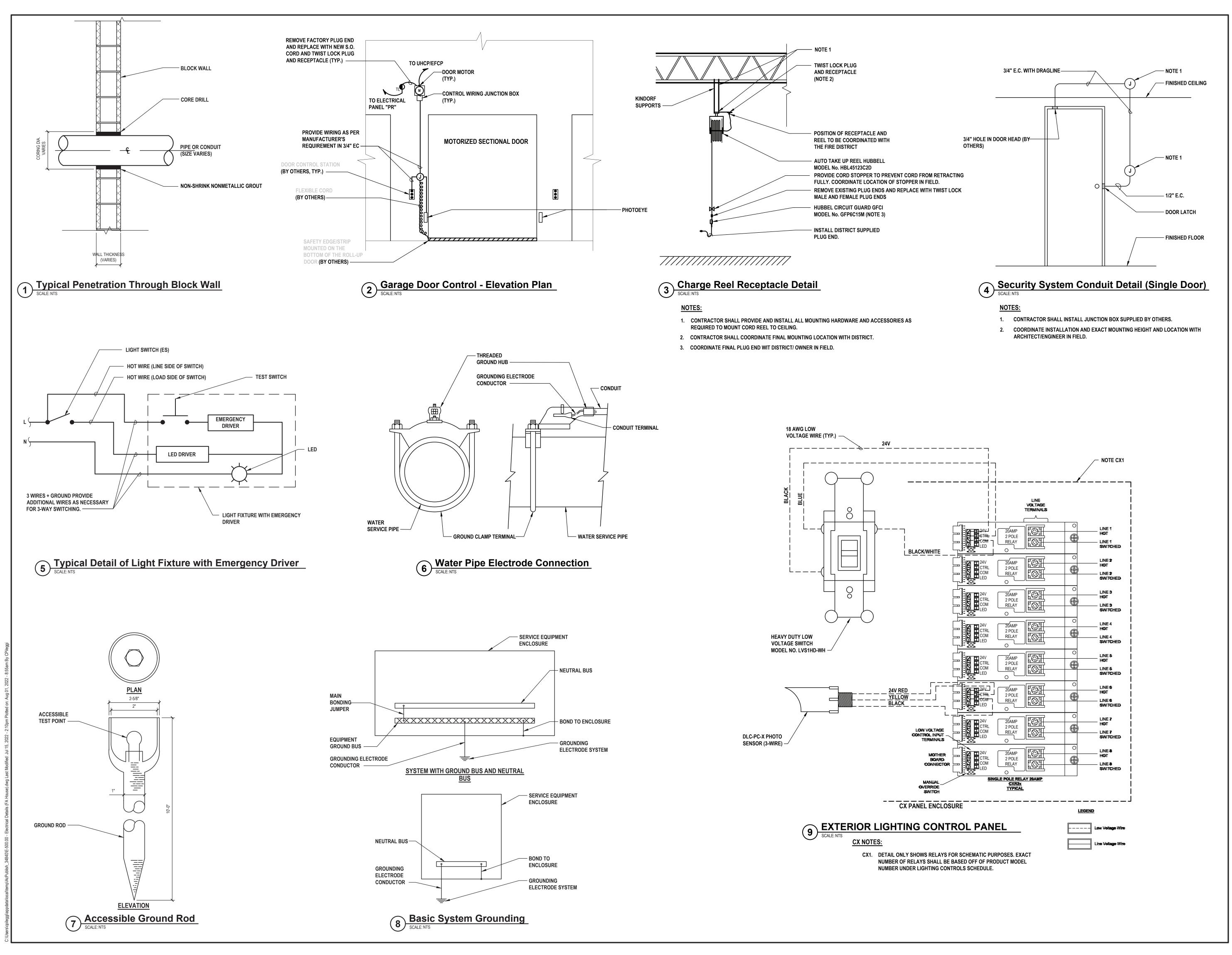
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CONTRACT G GENERAL CONSTRUCTION

REGULATORY REVIEW

ELECTRICAL ENLARGE PLANS NEW FIRE STATION PHASE 2

E2 401.00

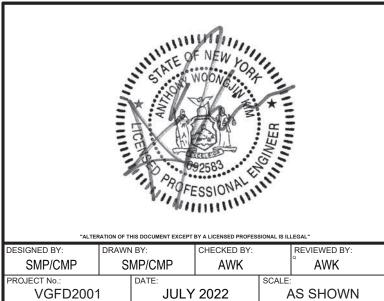


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New Storage Building (Phase I) New Fire Station (Phase II)



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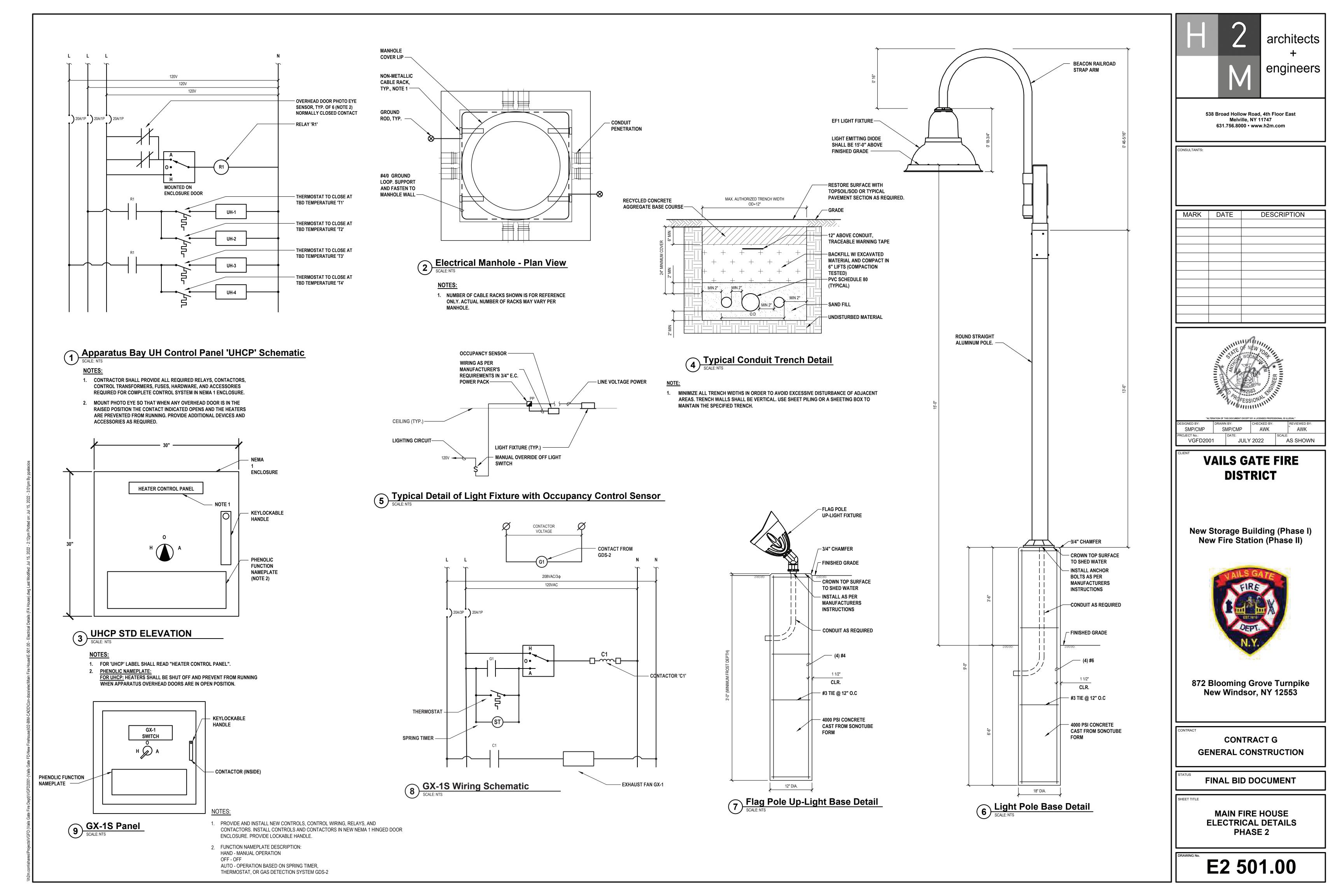
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GENERAL CONSTRUCTION

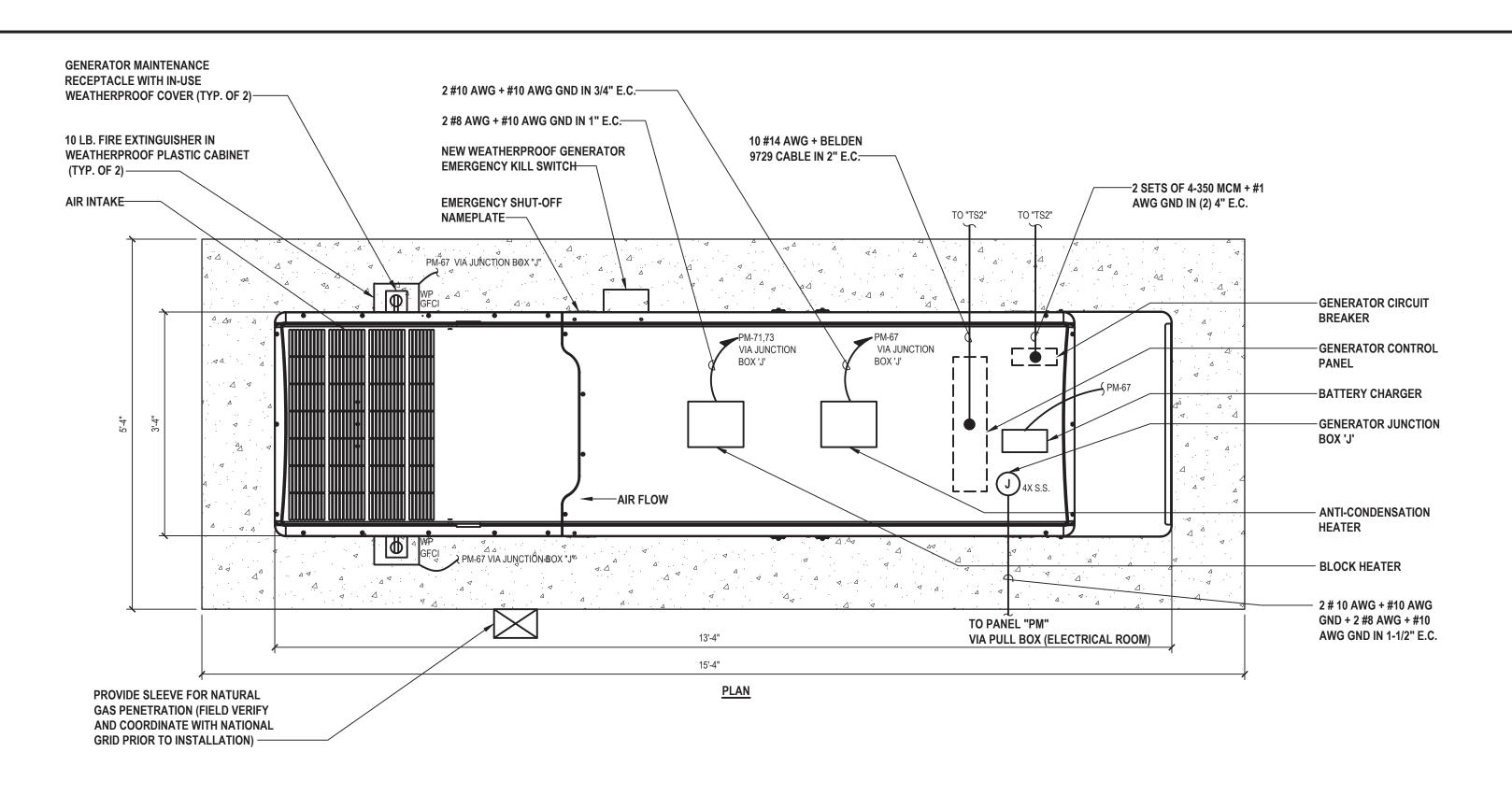
FINAL BID DOCUMENT

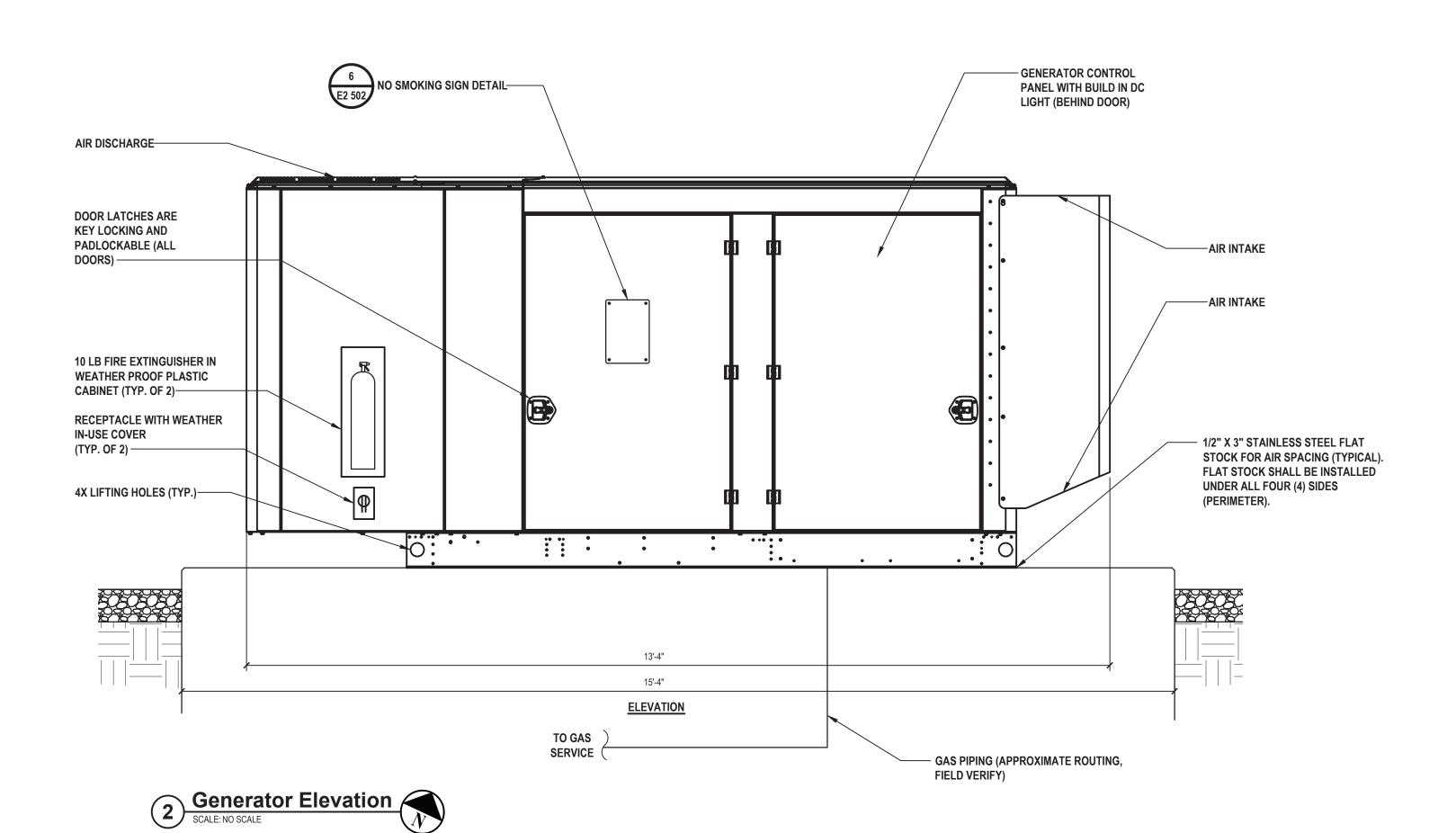
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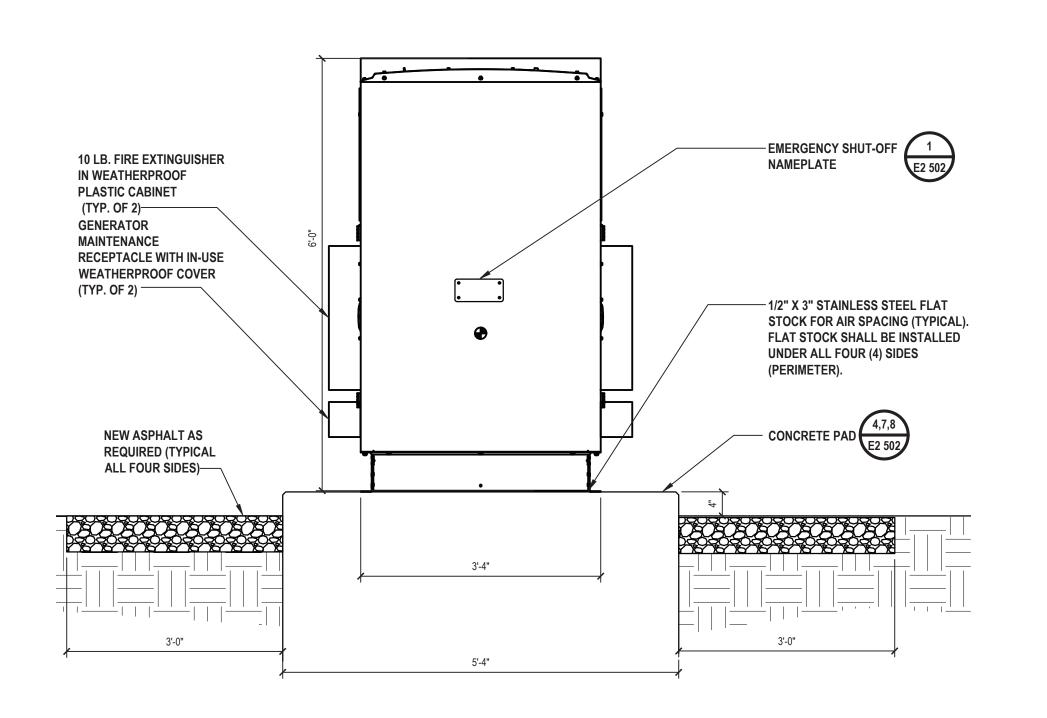
MAIN FIRE HOUSE ELECTRICAL DETAILS PHASE 2

E2 500.00



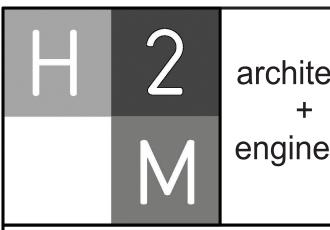






Generator Elevation

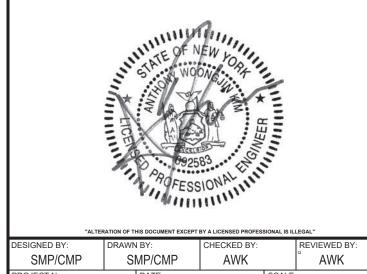
SCALE: NO SCALE



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VAILS GATE FIRE DISTRICT

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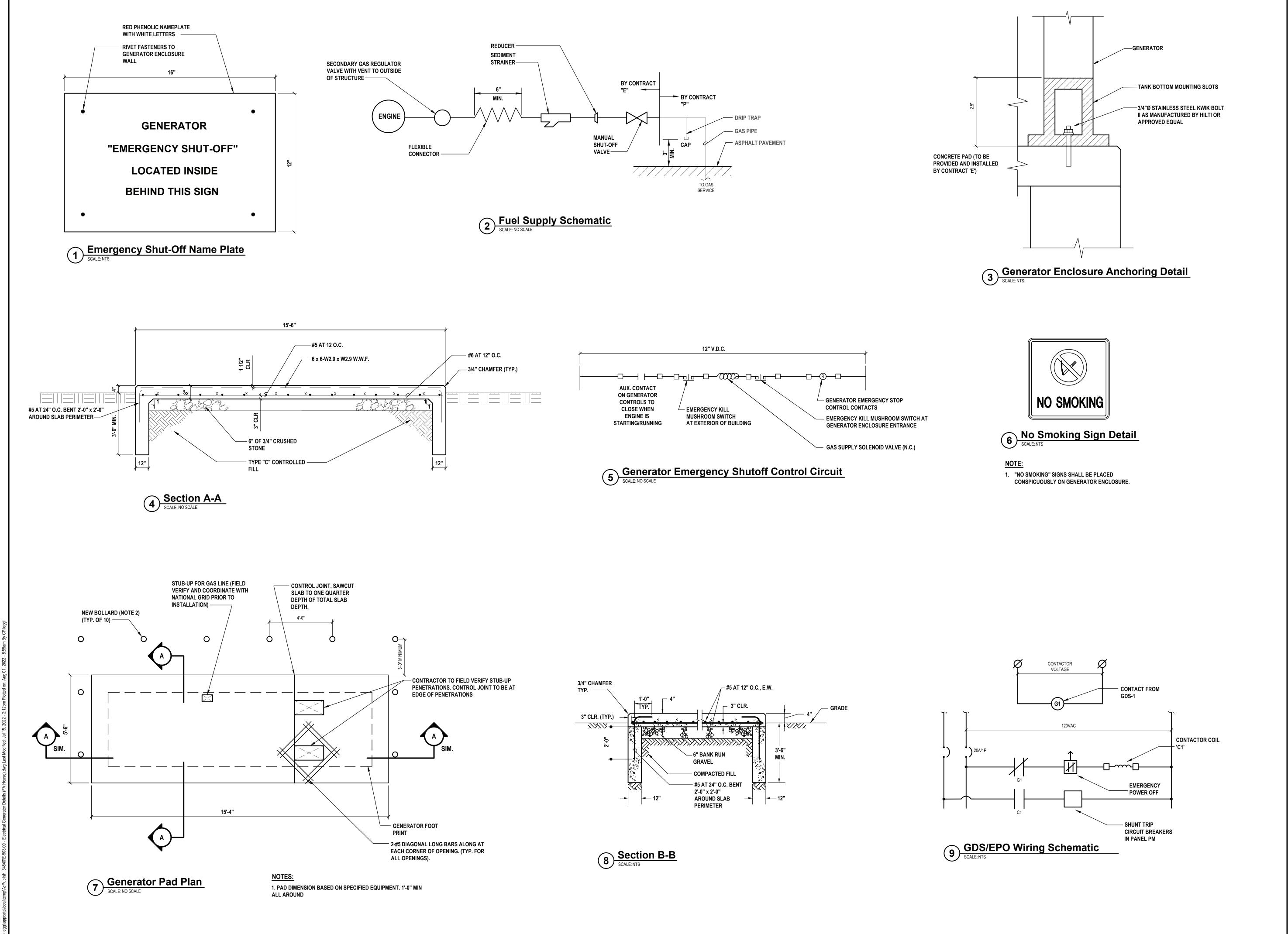
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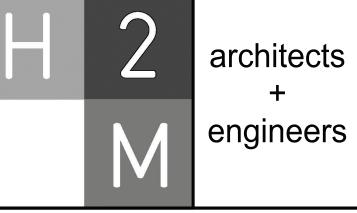
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ELECTRICAL
GENERATOR DETAILS
NEW FIRE STATION
PHASE 2

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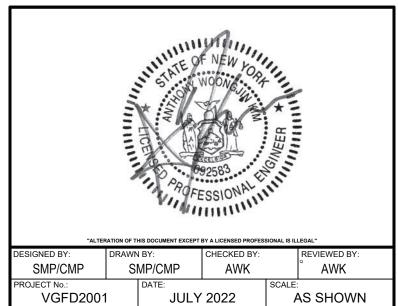
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New Storage Building (Phase I)
New Fire Station (Phase II)



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GENERAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET TITLE

ELECTRICAL DETAILS NEW FIRE STATION PHASE 2

E2 503.00

EXTERIO	EXTERIOR LIGHTING FIXTURE SCHEDULE													
DESIGNATION	SYMBOL	MANUFACTURER	MODEL NUMBER	TYPE	WATTS	COLOR TEMPERATURE	VOLTAGE	LUMENS	MOUNTING	REMARKS	MOUNTING HEIGHT			
0	EF1	BEACON	URB-CAP-21-24L-55-4K7-UNV-4-BC	LED	27	4000K	UNV	6323	POLE	PARKING LOT POLE LIGHTING POLE MODEL NUMBER: RSA-B-SHO-S-15-40-A/B/C-CAP-2L-B3-DBT-VM2	15'-0" AFF			
P	EF2	LIGHTOLOGY	TLG748936	LED	18	2700K	UNV	1200	WALL MOUNT SURFACE					
	EF3	HUBBELL	QSP2-24L-30-4K7-4	LED	30	3000K	UNV	3284	WALL MOUNT SURFACE	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACKUP CAPACITY	6" ABOVE DOOR			
	EF4	XOOLIGHT	RGB-HD20-W-T-IP67	LED			24VDC		SURFACE	EXTERIOR LINEAR SOFFIT MOUNTED IN EXTERIOR SOFFIT	-			
	EF5	PROGRESS LIGHTING	P560211-031-30	LED	11	3000K	UNV	847	SURFACE	SCONCE LIGHTING	-			
O	EF6	ARCHITECTURAL AREA LIGHTING	UCS-LUM-FLR12LED-NW-XX	LED	27	4000K	UNV	1497	WALL MOUNT SURFACE		10'-6" AFF			
O	EF7	ARCHITECTURAL AREA LIGHTING	UCM2-LUM-FLR36L3254K74WBLS WMA12	LED	40	4000K	UNV	4657	WALL MOUNT SURFACE		18'-0" AFF			
0	EF8	HUBBELL	LBUL-20-4K	LED	20	4000K	UNV	2690	SURFACE	FLAG POLE LIGHT				

LIGHTING C	LIGHTING CONTROLS SCHEDULE													
TYPE	MANUFACTURER	MODEL NUMBER	VOLTAGE	MOUNTING	MOUNTING HEIGHT	REMARKS								
S _{VS}	HUBBELL	LHDMIRS3-N-WH-M	120V	WALL MOUNTED	48"AFF	VS DENOTES VACANCY SENSOR								
P1-X A PP1	HUBBELL	UVPP	-	AFC	CEILING	POWER PACK								
PC-1	HUBBELL	DLCPCO	24VDC			PHOTOCELL								
Osw	HUBBELL	SENSOR: WSP-SM-24V-WH + LENS: WSP-L360-WH	24VDC	CEILING MOUNTED SURFACE	21'-9" AFF	APPARATUS BAY OCCUPANCY SENSOR								
OS	HUBBELL	NXOS-OMDT2	24VDC	CEILING MOUNTED SURFACE	CEILING	OCCUPANCY SENSOR								
(VS)	HUBBELL													
RC	HUBBELL	NXRCFX-2RD-UNV	120V			ROOM CONTROLLER								
	HUBBELL	CX082S082NM	UNV	WALL MOUNTED SURFACE		EXTERIOR LIGHTING CONTROL PANEL								
INV-1	DUAL LITE	LG250-S	UNV	WALL MOUNTED SURFACE		EXTERIOR LIGHTING INVERTER								

CONTRACTOR SHALL COORDINATE ALL DEVICE COLORS AND FACEPLATES WITH ARCHITECT/OWNER IN FIELD.

* PIR = PASSIVE INFRARED

- 1. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ACCESSORIES AS REQUIRED TO PROVIDE FULL FUNCTIONING LIGHTING CONTROL SYSTEM TO FUNCTION AS SHOWN IN THE CONSTRUCTION DOCUMENTS. ALL SUBSTITUTE CONTROLS WILL REQUIRE SUBMISSION OF NEW CONTROL LAYOUT, STAMPED BY A PROFESSIONAL ENGINEER. SUBSTITUTE CONTROLS SHALL FUNCTION AS DESIGNED ON THE CONTRACT DOCUMENTS AND CONTRACTOR SHALL GUARANTEE FUNCTIONALITY.
- 2. CONTRACTOR SHALL REFER TO CONTRACT DRAWINGS FOR SPECIFIC OUTPUT CONTROLS, AND DIMMING REQUIRED FOR ROOM CONTROLLER.
- . ALL SWITCHES AND SWITCH BANKS TYPES SHALL BE COORDINATED WITH THE ENGINEER/DISTRICT IN FIELD.
- 4. REFER TO DRAWING E 121A, E 121B, AND E122B FOR MOUNTING HEIGHT OF LIGHT FIXTURES. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH MANUFACTURER TO PROVIDE AND INSTALL CUSTOM CABLE LENGTHS FOR PENDANT MOUNTED FIXTURES TO BE INSTALLED. PROVIDE AND INSTALL ALL REQUIRED MOUNTING HARDWARE AND ACCESSORIES.

EXTERIOR LIGHTING CONTROL PANEL RELAY SCHEDULE											
RELAY	VOLTAGE/POLE	PANEL-CIRCUIT No.	LOAD	CONTROLS							
1	120/1	PR-40,PR-42	PARAPET RECEPTACLES	TIMER							
2	120/1	PL-10	EXTERIOR BUILDING LIGHTING	PHOTOCELL/TIMER							
3	208/1	PL-30,32	EXTERIOR POLE LIGHT FIXTURES	PHOTOCELL/TIMER							
4	120/1	PM-2	GX-4	TIMER							

INTERIOR LIGHTING FIXTURE SCHEDULE													
ESIGNATION	SYMBOL	MANUFACTURER	MODEL NUMBER	TYPE	WATTS	COLOR TEMPERATURE	VOLTAGE	LUMENS	MOUNTING	REMARKS	MOUNTING HEIGHT		
	F1	COLUMBIA	LCAT22-35-ML-G-ED-U	LED	29	3500K	UNV	3532	RECESSED		CEILING		
	F1E	COLUMBIA	LCAT22-35-ML-G-ED-U-ELL-14ST	LED	29	3500K	UNV	3532	RECESSED	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACKUP CAPACITY	CEILING		
	F2	COLUMBIA	LAW-4-35-HL-E-U	LED	51	3500K	UNV	5714	PENDANT	OPEN CEILING	NOTE 4		
	F2E	COLUMBIA	LAW-4-35-HL-E-U-ELL14	LED	51	3500K	UNV	5714	PENDANT	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACKUP CAPACITY OPEN CEILING	NOTE 4		
	F3	HUBBELL LITECONTROL	6L-R-D-4-SOF-X-CX-35K-D080-1C-UNV	LED	27	3500K	UNV	3200	RECESSED	GEAR ROOM	CEILING		
	F3E	HUBBELL LITECONTROL	6L-R-D-4-SOF-X-CX-35K-D080-UNV-1C-EF	LED	27	3500K	UNV	3200	RECESSED	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACKUP CAPACITY GEAR ROOM	CEILING		
	F4	PRESCOLITE	LTR-6SQD-H-SL15L-DM1 / LTR-6SQD-T-SL35K8WD	LED	19	3500K	UNV	1000	RECESSED	LOBBY 125A / VESTIBULE RECESSED SQUARE DOWNLIGHT	CEILING		
	F4E	PRESCOLITE	LTR-6SQD-H-SL10LDM1EM / LTR-6SQD-T-SL35K8WD	LED	19	3500K	UNV	1000	RECESSED	LOBBY 125A / VESTIBULE RECESSED SQUARE DOWNLIGHT	CEILING		
	F5	COLUMBIA	CFP22-40-33-2835	LED	26	3500K	UNV	3458	RECESSED	KITCHEN AND BATHROOMS (AT 2800LM)	CEILING		
	F5	COLUMBIA	CFP22-40-33-2835-PLD10M	LED	26	3500K	UNV	3458	RECESSED	KITCHEN AND BATHROOMS (AT 2800LM) EMERGENCY LED BATTERY PACK FIELD INSTALLED	CEILING		
	F6	HUBBELL LITECONTROL	4LPIDSTD4'04SOF35K- I030D110D011CUNV	LED	36	3500K	UNV	300	PENDANT	APP BAY OPEN SIDE OF EXERCISE ROOM	NOTE 4		
	F6E	HUBBELL LITECONTROL	4LPIDSTD4'04SOF35K- I030D110D011CUNVEF	LED	36	3500K	UNV	300	PENDANT	APP BAY OPEN SIDE OF EXERCISE ROOM	NOTE 4		
	F7	PRESCOLITE	LTR4SQDHSL06LDM1 / LTR-4SQD-T-SHSL35K8VNR-S	LED	8	3500K	UNV	705	RECESSED	ALL SHOWERS	CEILING		
	F7E	PRESCOLITE	LTR4SQDHSL06LDM1-EMR / LTR-4SQD-T-SHSL35K8VNR-S	LED	8	3500K	UNV	705	RECESSED	ALL SHOWERS	CEILING		
	F8	HUBBELL LITECONTROL	4L-W-ID-LPA4SOF35K-I050-D050- D01-1C-UNV	LED	15	4000K	UNV	2000	SURFACE (WALL MOUNT)	RADIO ROOM	14'-0" A.F.F.		
Ø	EX	COMPASS LIGHTING	CELS1GNE	LED	1	3000K	UNV	-	SURFACE	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACKUP CAPACITY (NOTE EL2)	6" ABOVE DOO		
	F10	HUBBELL LITECONTROL	2LWAD404ASYMC135KD100NDMUNV	LED	48	3500K	UNV	1000	SURFACE (WALL MOUNT)	STAIRWELL			
	F10E	HUBBELL LITECONTROL	2LWAD404ASYMC135KD100NDMUNVEF	LED	48	3500K	UNV	1000	SURFACE (WALL MOUNT)	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACKUP CAPACITY (NOTE EL2)			
	F11	COLUMBIA	MPS435LWXWU	LED	27	3500K	UNV	3753	SURFACE	TOOL COVE, CLOSET 125B	6" ABOVE DOO		
+	F12	HUBBELL	VWGL-2	LED	11	4000K	UNV	2722	SURFACE (WALL MOUNT)	ELEVATOR PIT AND ACCESS UNDER STAIR B	WALL		
	F13	3G LIGHTING	3G2RLIRGBWL250S80-UNV-DMX-FL- RECTANGLE34FTX20FT	LED	1.9W/FT	4000K	UNV	250LM/FT	RECESSED	MEETING ROOM RECESSED FIXTURES	CEILING		
	F14	COLUMBIA	MPS8-35XL-CW-EDU	LED	113	3500K	UNV	15958	PENDANT	APPARATUS BAY	21'-6" A.F.F.		
	F14E	COLUMBIA	MPS8-35XL-CW-EDU-ELL14	LED	113	3500K	UNV	15958	PENDANT	APPARATUS BAY	21'-6" A.F.F.		
	F15	COLUMBIA	LCAT22-35-LW-G-ED-U	LED	23	3500K	UNV	3532	RECESSED		CEILING		
	F15E	COLUMBIA	LCAT22-35-LW-G-ED-U-ELL-14ST	LED	23	3500K	UNV	3532	RECESSED	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACKUP CAPACITY	CEILING		

LIGHT FIXTURE SCHEDULE NOTES:

- EL1. CONTRACTOR SHALL PROVIDE, INSTALL, LOCATE AND MOUNT OCCUPANCY SENSOR AS PER MANUFACTURES RECOMMENDATIONS. CONTRACTOR SHALL NOT MOUNT OCCUPANCY SENSOR DIRECTLY TO SLOPED CEILING. CONTRACTOR SHALL PROVIDE AND INSTALL MOUNTING HARDWARE TO ENSURE OCCUPANCY SENSOR LENS FACE IS ORIENTATED DOWNWARD, FACING THE FINISHED FLOOR.
- EL2. CONTRACTOR SHALL COVER LEFT AND RIGHT ILLUMINATED DIRECTIONAL ARROWS AS PER MANUFACTURER'S RECOMMENDATIONS.

SPARE EQUIPMENT:

SE1. IN ADDITION TO THE EQUIPMENT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL INCLUDE THE COST FOR PROVIDING THE FOLLOWING SPARE EQUIPMENT TYPES IN THE BASE BID. CONTRACTOR SHALL INCLUDE IN BASE BID THE COST TO DELIVER THE FOLLOWING EQUIPMENT TO A STORAGE LOCATION DESIGNATED BY THE OWNER. REFER TO THE LIGHT FIXTURE SCHEDULE ABOVE FOR ADDITIONAL INFORMATION.



architects + engineers

538 Broad Hollow Road, 4th Floor East Melville, NY 11747 631.756.8000 • www.h2m.com

NSULTANTS:

MARK	DATE	DESCRIPTION



DESIGNED BY:
SMP/CMP
DATE:
VGFD2001

DRAWN BY:
SMP/CMP
DATE:
VGFD2001

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I)

New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT G
GENERAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET TITLE

ELECTRICAL SCHEDULES
NEW FIRE STATION
PHASE 2

DRAWING No.

E2 600.00

Name															
Panelboard:	PC			-	Voltage	:	208Y/120	Phas	se:	3		Wii	re	4 A.I.C. R	Rating: 42,000
lanufacturer:	SIEMEN	IS		-	Mains:		225A MCE		s Rating:	225	Α				
anel Type:	P2			-	Mountin	ng:	SURFACE	Optio	ons:			No	tes:		IN TRAINING ROOM
EMA Type Enclosure	11			-											
Load Description	Breaker Option	Trip	Poles	Circ No.	Α	В	С	А	В	С	Circ No.	Poles	Trip	Breaker Option	Load Description
203B HOOD		20 A	1	1	288 VA			1500 VA			2	1	20 A		207 ELLIPTICAL
207 EXERCISE BIKE 206 FLOOR REC.		20 A 20 A	1	3		360 VA	1440 VA		500 VA	1440 VA	4	1	20 A		PANEL 'UHCP' 206 FLOOR REC.
203 PLOOR REC. 203B RANGE	GFCI/ST	20 A	1	5 7	1800 VA		1440 VA	1080 VA		1440 VA	8	1	20 A 20 A		STORAGE 204,205 REC.
203B REFRIGERATOR TRAINING ROOM 206 REC.	GFCI	20 A 20 A	1	9		1800 VA	1080 VA		750 VA	750 VA	10 12	2	30 A	GFEP	HEAT TRACER HT-D, HT-MAU, HT-208
206 FLOOR REC.		20 A	1	13	1440 VA	4000 1/4		1500 VA	4440.144		14	1	20 A		207 STAIR MILL
TRAINING ROOM 206 REC. CONFERENCE ROOM 202 REC.		20 A 20 A	1	15 17		1080 VA	1440 VA		1440 VA	1500 VA	16 18	1	20 A 20 A		COMPANY ROOM 203A REC. 207 TREADMILL
SPARE 207 TREADMILL		20 A 20 A	1	19 21	0 VA	1500 VA		0 VA	0 VA		20	1	20 A 20 A		SPARE SPARE
SPARE		20 A	1	23	0.1/4		0 VA	0.1/4		0 VA	24	1	20 A	-	SPARE
SPARE SPARE		20 A 20 A	1	25 27	0 VA	0 VA		0 VA	0 VA		26 28	1	20 A 20 A		SPARE SPARE
SPARE SPARE		20 A 20 A	1	29 31	0 VA		0 VA	0 VA		0 VA	30 32	1	20 A 20 A	-	SPARE SPARE
SPARE		20 A	1	33	Ų III	0 VA	27/4	V	0 VA	21/2	34	1	20 A		SPARE
SPARE SPARE		20 A 20 A	1	35 37	0 VA		0 VA	0 VA		0 VA	36 38	1	20 A 20 A		SPARE SPARE
SPARE SPARE		20 A 20 A	1	39 41		0 VA	0 VA		0 VA	0 VA	40 42	1	20 A 20 A		SPARE SPARE
OI AIL		207		71			VVA			UVA	12		2071		OFFICE
	Con	nected 1	Totals:			kVA	-						<u>Option</u>		
				B C		kVA kVA	-						nk AS Br Lock-off		
			Total:		22.7	kVA	-						rip Type		
			Amps		63	3 A	-						ary Conta Padlock	ncts Attchment	
											GFCI -	Grou	nd Fault (Circuit Interr	-
	(All Phases	to be ba	lanced	l to wit	thin 7% Act	ual Load Tot	tals)				SF - S	ubfeed	t	& Refrigerati	IUII
											TC - T	ime Cl	ock Cont	rol	
lame				_											
anelboard:	PL				Voltage	:	208Y/120	Phas	se:	3		Wii	re	4 A.I.C. R	Rating: 42,000
anufacturer:	SIEMEN	S			Mains:		MLO	Main	s Rating:	225	A				
anel Type:	P2				Mountii	ng:	SURFACE	Optio	ons:			No	tes:		N ELECTRICAL ROOM
EMA Type Enclosure	1														
								ı							
Load Description	Breaker Option	Trip	Poles	Circ No.	Α	В	С	Α	В	С	Circ No.	Poles	Trip	Breaker Option	Load Description
Other	200011	20 A	1	1	0 VA			240 VA			2	1	20 A		Other
ROOMS 119,114,117,115		20 A	1	3	VVA	259 VA		240 VA	710 VA		4	1	20 A		ROOMS 120,121,122,127,128,118
KX HOOD FIRST FLOOR CORRIDOR	ST	20 A 20 A	1	5 7	659 VA		360 VA	1000 VA		742 VA	8	1	20 A 30 A		ROOMS 102,3,4,5,6,7,8,9,11 GEN. SHORE POWER
ELCP-2 210,201,209,208,203B,204,205		20 A 20 A	1	9		945 VA	1002 VA		1398 VA	1003 VA	10 12	1	20 A 20 A		MEETING ROOM 116
APP. BAY/MEZZANINE		20 A	1	13	1541 VA		1002 VA	2496 VA		1003 VA	14	2	30 A		206,207,216,217,218,219,220 POWER WASHER
ND FLR. OFFICES/ COMP. ROOMS		20 A	1	15 17			1069 VA		2496 VA	1544 VA	16 18	1	20 A		APP. BAY/MEZZANINE
		-		19		445.744		1200 VA	4000.1/4		20				
ECLP-3		20 A	2	21		115 VA	115 VA		1200 VA	1200 VA	22 24	3	20 A		HVLS-1
HVLS-2		20 A	3	25 27	1200 VA	1200 VA		1200 VA	1200 VA		26 28	3	20 A		HVLS-3
20 2		2071		29		1200 174	1200 VA		1200 071	1200 VA	30				
LAUNDRY ROOM DRYER	GFCI	30 A	3	31	2880 VA	2880 VA		0 VA	0 VA		32 34	1	20 A 20 A		SPARE SPARE
SPARE		20 A	1	35 37	0 VA		2880 VA	0 VA		0 VA	36 38	1	20 A 20 A		SPARE SPARE
SPARE		20 A	1	39		0 VA		V 111	0 VA		40	1	20 A		SPARE
SPARE		20 A	1	41			0 VA			0 VA	42	1	20 A		SPARE
	Con	nected 1	Fotals:	Α	12.4	kVA							<u> ption</u>		
				B C		kVA kVA	-						nk AS Br Lock-off		
			Total:			kVA	-						rip Type	Device	
			Amps		10	3 A	-						ary Conta	ncts Attchment	
											GFCI -	Groui	nd Fault (Circuit Interr	-
	(All Phases	to be ba	lanced	l to wit	thin 7% Act	ual Load Tot	tals)				HACR SF - S		•	& Refrigerati	on
							,						ock Cont	rol	
lame															
anelboard:	MDP				Voltage	ı:	208Y/120	Phas	se:	3		Wii	re	4 A.I.C. R	Rating: 65,000
anufacturer:	SIEMEN	IS		-	Mains:		800A MCE		s Rating:	800					
anel Type:	P4				Mountin	ng:	SURFACE					No	tes:		
EMA Type Enclosure	1											_			
Load Description	Breaker	Trip	Poles	Circ	A	В	С	A	В	С	Circ	Poles	Trip	Breaker	Load Description
-	Option			140.							No.	2,03	۲۰۰۰	Option	
ELAVATOR CONTROL PANEL		20 A	1	3	200 VA						4				
PANEL PC		225 A	3	5	7430 VA		7608 VA	12403 VA		12416 VA	6	3	225 A		PANEL PL
I ANEL FO		223 A	3	9	1 TOU VA	7650 VA		12703 VA	12315 VA		10	3	223 A		FANEL FL
PANEL PR		225 A	3	11 13	15540 VA		15531 VA	23238 VA		23293 VA	12 14	3	225 A		PANEL PM
				15		15520 VA	0.1/4		23284 VA	20043/4	16	-			
SIREN CONTROL PANEL		40 A	3	17 19	0 VA		0 VA	2004 VA		2004 VA	18 20	3	30 A		vx
				21		0 VA	2880 VA		2004 VA	3360 VA	22 24				
SURGE SUPPRESSION		30 A	3	25	2880 VA		_550 VA	3360 VA		SUU VA	26	3	30 A	ST	ELEVATOR
				27 29		2880 VA	5544 VA		3360 VA	6432 VA	28 30				
SCBA TANK FILLER		80 A	3	31	5544 VA			6432 VA	8:55	J.V2 VA	32	3	70 A	HACR	CU-1
				33 35		5544 VA	6432 VA		6432 VA	13140 VA	34 36				
CU-2	HACR	70 A	3	37	6432 VA	6420344		13140 VA	424 40 1/2		38	3	125 A	HACR	DOAS-1
SPARE		20 A	1	39 41		6432 VA	0 VA		13140 VA	0 VA	40 42	1	20 A		SPARE
	-									-		•-			
	Con	nected 1	Fotals:	A B		kVA kVA	-)ption nk AS Br	eakor	
				В	98.6	. I. V P.	-						nk AS Br Lock-off		
				С	98.6	kVA					LO - H	anule	LOCK-OII	Device	
			Total:		295.8	8 kVA	-				ST - S	hunt T	rip Type		
			Total: Amps		295.8		- - -				ST - S AUX -	hunt T Auxilla	rip Type ary Conta	ıcts	
					295.8	8 kVA	- -				ST - S AUX - PA - H GFCI -	hunt T Auxilla andle Groui	rip Type ary Conta Padlock nd Fault (ncts Attchment Circuit Interr	
	(All Phases	to be ba	Amps		295.8 82	8 kVA 1 A	tals)				ST - S AUX - PA - H GFCI -	hunt T Auxilla andle Groui - Heat	rip Type ary Conta Padlock nd Fault (ting, A/C	ncts Attchment	

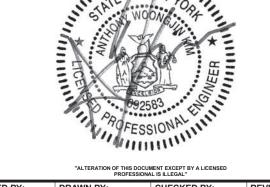
Name															
Panelboard:	PM			_	Voltage	:	208Y/120	Phas	se:	3		Wir	е	4 A.I.C. F	Rating: 42,000
Manufacturer:	SIEMEN	IS		_	Mains:		MLO	Main	s Rating:	225	Α				
Panel Type:	P2			_	Mountir	ng:	SURFACE	Opti	ons:			Not	tes:	-	IN ELECTRICAL ROOM
NEMA Type Enclosure	1			-											
Load Description	Breaker Option	Trip	Poles	Circ No.	A	В	С	A	В	С	Circ No.	Poles	Trip	Breaker Option	Load Description
CUH-A	HACR	20 A	1	1	84 VA			200 VA			2	1	20 A		GDS-2
CUH-126/ERXF-122	HACR	20 A	1	3		134 VA			240 VA		4	1	20 A		MAU-1 (CONTROL PANEL)
CUH-B	HACR	15 A	1	5			84 VA			240 VA	6	1	15 A	HACR	GX-4
GX-1S STARTER CIRCUIT	0.7	20 A	1	7	300 VA	200 1/4		900 VA	000 1/4		8	1	20 A		SEC. FLOOR CDP-A
KITCHEN HOOD	ST	20 A	1	9		780 VA	400 \/4		960 VA	000 1/4	10	1	20 A		LRS-1
TX-1 UH-1, UH-2	HACR	15 A 20 A	1	11	1104 VA		480 VA	1500 VA		900 VA	12 14	1	20 A 20 A		SEC. FLOOR OFFICES CDP-A BATTERY CHARGER
CDP-A	HACK	20 A	1	15	1104 VA	1440 VA		1500 VA	1800 VA		16	1	20 A		GEAR DRYER
UH-3, UH-4	HACR	20 A	1	17		1440 VA	1104 VA		1000 VA	1500 VA	18	1	20 A		GEN. RECEPT./ANTI-COND. HTR
BL-1	ST	20 A	1	19	1920 VA		1104 VA	0 VA		1500 VA	20	1	20 A		GEN. RECEPT./ANTI-COND. HTR
TX-2	31	20 A	1	21	1920 VA	120 VA		UVA	0 VA		22	2	20 A	HACR	HHWP-4 (STAND-BY)
BL-2	ST	20 A	1	23		120 VA	1920 VA		VVA	120 VA	24	1	20 A		TX-3
		2071		25	0 VA		1020 171	184 VA		120 071	26		2071		-
HHWP-6 (STAND-BY)	HACR	20 A	2	27	0.77	0 VA		101171	184 VA		28	2	15 A	HACR	BC-4, EU-211,212,213,214,215,216
KITCHEN 118 RANGE REC.	ST	20 A	1	29			408 VA			624 VA	30				
DO 4 FULL 440 400 FOUL 400	HAOD	45.4		31	292 VA			624 VA			32	2	20 A	HACR	HHWP-5
BC-1, EU114,118,120,FCU-102	HACR	15 A	2	33		292 VA			694 VA		34		45.0	LIACD	DC 2 FU 202 202 FOU 2044 205
				35						694 VA	36	2	15 A	HACR	BC-3, EU-202,203, FCU-204A,206
I/V 440	HACD	45.0		37	676 VA			120 VA			38	1	20 A		GDS-1
KX-118	HACR	15 A	2	39		676 VA			728 VA		40		00.4	LIAOD	LILIDA/D C
BC-2,FCU-116-1,2,3,EU-125A	HACR	15 A	2	41			948 VA			728 VA	42	2	20 A	HACR	HHWP-3
BC-2,FCU-116-1,2,3,EU-129A	HACK	15 A	2	43	948 VA			1040 VA			44	2	15 A	HACR	OU-1
WEH-12	HACR	20 A	2	45		750 VA			1040 VA		46		15 A	HACK	00-1
VVEII-12	HACK	20 A		47			750 VA			2288 VA	48	2	70 A		MEZZANINE COMPRESSOR
GX-2	HACR	20 A	1	49	408 VA			2288 VA			50		707		WILZEARINE GOWN REGOOK
MEZZANINE COMPRESSOR		70 A	2	51		2288 VA			408 VA		52	1	20 A	ST	KITCHEN 118 RANGE REC.
		1071		53			2288 VA			0 VA	54				
BLOCK HEATER	HACR	30 A	2	55	2496 VA			0 VA			56	3	20 A	HACR	HHWP-2 (STAND-BY)
				57		2496 VA			0 VA		58				
MALL 4 (EAN MOTOR)		4= 4		59	400 \ / 4		468 VA	4070 \ (4		1272 VA	60				11111475 4
MAU-1 (FAN MOTOR)	HACR	15 A	3	61	468 VA	400.1/4		1272 VA	4070 \/A		62	3	20 A	HACR	HHWP-1
				63		468 VA	4220 \/A		1272 VA	4740 \/A	64				
GX-1	HACR	20 A	3	65 67	1320 VA		1320 VA	1740 VA		1740 VA	66	3	20 A	HACR	MAU-1 (CONDENSER)
GA-1	HACK	20 A	3	69	1320 VA	1320 VA		1740 VA	1740 VA		70	,	20 A	IIACK	MAG-1 (COMDENSER)
				71		.020 47	3408 VA			0 VA	72	1	20 A		SPARE
RTU-208	HACR	35 A	3	73	3408 VA		J.00 1A	0 VA		717	74	1	20 A		SPARE
				75	2.00 171	3408 VA		J	0 VA		76	1	20 A		SPARE
SPARE		20 A	1	77			0 VA			0 VA	78	1	20 A		SPARE
						13/4						kor C) ption		
	Con	nected	เ บเสเร:			kVA	_								
				В		kVA	_						nk AS Bı		
				С	23.3	kVA	=				LO - F	landle	Lock-off	Device	
			Total:		69.8	kVA	_				ST - S	hunt T	rip Type		
			Amps:		19	4 A	_				AUX -	Auxilla	ary Cont	acts	
		_				PA - F	landle	Padlock	Attchment						
						GFCI -	- Grour	nd Fault	Circuit Inter	rupter					
											HACR	- Heat	ing, A/C	& Refrigerat	ion
	(All Phases	to be ba	alanced	l to wi	thin 7% Act	ual Load To	tals)				SF - S	ubfeed	l		
											TC - T	ime Cl	ock Con	trol	

Name																
Panelboard:	PR			-	Voltage	:	208Y/120	Phas	se:	3		Wir	е	4 A.I.C. Rating: 42,000		
Manufacturer:	SIEME	NS		-	Mains:		MLO	Mair	s Rating:	225	Α					
Panel Type:	P2			_	Mountii	ng:	SURFACE	Opti	ons:	Notes: IN					IN ELECTRICAL ROOM	
NEMA Type Enclosure	1			_												
								_								
Load Description	Breaker Option	Trip	Poles	Circ No.	A	В	С	Α	В	С	Circ No.	Poles	Trip	Breaker Option	Load Description	
CP-1,CP-2		20 A	1	1	167 VA			444 VA			2	1	20 A	GFCI	118 FREEZER	
COMISSIONERS 211 REC.		20 A	1	3		180 VA			500 VA		4	1	20 A		CEILING CORD REEL	
DISPLAY CASES		20 A	1	5			360 VA			540 VA	6	1	20 A		GEAR ROOM AIR DROPS	
GEAR ROOM POWER STRIP		20 A	1	7	540 VA			648 VA			8	1	20 A	GFCI	118 REFRIGERATOR	
"OH-1" DOOR MOTOR		20 A	1	9		600 VA			720 VA		10	1	20 A		DF-2 FOUNTAIN	
"OH-2" DOOR MOTOR		20 A	1	11			600 VA			720 VA	12	1	20 A		GEAR ROOM POWER STRIP	
118 ICE MACHINE	GFCI	20 A	1	13	1464 VA			1608 VA			14	1	20 A	GFCI	118 MICROWAVE	
GEAR ROOM REC.		20 A	1	15		1080 VA			1800 VA		16	1	20 A		FIRST FLOOR LOBBY REC.	
LAUNDRY ROOM WASHER		20 A	1	17		1000	1200 VA		1000	1440 VA	18	1	20 A		CHIEF OFFICES 214,215	
DISPLAY CASES		20 A	1	19	180 VA			360 VA		11.5 471	20	1	20 A		RADIO ROOM REC.	
HVLS-1,2,3 CONTROL PANEL REC.		20 A	1	21	100 174	180 VA		000 VA	360 VA		22	1	20 A		RADIO ROOM REC.	
MV-1		20 A	1	23		100 17	180 VA		300 VA	360 VA	24	1	20 A		RADIO ROOM REC.	
EXERCISE ROOM 207 REC.		20 A	1	25	360 VA		100 VA	500 VA		300 VA	26	1	20 A		CEILING CORD REEL	
KITCHEN EMERGENCY SWITCHES		20 A	1	27	300 VA	360 VA		300 VA	500 VA		28	1	20 A		CEILING CORD REEL	
MEZZANINE REC.		20 A	1	29		300 VA	360 VA		300 VA	500 VA		1	30 A		IT. ROOM CEILING REC.	
					500 \/A		360 VA	540 \/A		500 VA	30	1				
			1	31	500 VA	E00.1/4		540 VA	= 40 \/A		32	<u> </u>	20 A		GEAR ROOM POWER STRIP	
CEILING CORD REEL		20 A	1	33		500 VA	E00.1/4		540 VA	E40.1/4	34	1	20 A		RADIO ROOM REC.	
CEILING CORD REEL		20 A	1	35	000 1/4		500 VA	000 1/4		540 VA	36	1	20 A		ROOF MAINTENANCE REC.	
"OH-6" DOOR MOTOR		20 A	1	37	600 VA			600 VA			38	1	20 A		"OH-3" DOOR MOTOR	
DF-1 FOUNTAIN		20 A	1	39		600 VA			600 VA		40	1	20 A		"OH-4" DOOR MOTOR	
WH-1	HACR	20 A	1	41			600 VA			600 VA	42	1	20 A		"OH-5" DOOR MOTOR	
OUTDOOR REC.		20 A	1	43	720 VA			900 VA			44	1	20 A		GEAR ROOM POWER STRIP	
ROOMS 216,217,218,219,220 REC.		20 A	1	45		720 VA			900 VA		46	1	20 A		ROOMS 119,114,117,115 REC.	
TOOL POWER STRIP		20 A	1	47			720 VA			900 VA	48	1	20 A		STORAGE/ DECON ROOM REC	
MEETING ROOM 116 REC.		20 A	1	49	1080 VA			1260 VA			50	1	20 A		FIRST FLOOR CORRIDOR REC.	
MEETING ROOM 119 REC.		20 A	1	51		1080 VA			1260 VA		52	1	20 A		SCBA 109,111 REC.	
NETWORK IT. ROOM REC.		20 A	1	53			1080 VA			1260 VA	54	1	20 A		SUMP PUMP REC.	
CORRIDOR 210,209,208 REC.		20 A	1	55	1440 VA			1620 VA			56	1	20 A		118 COUNTER REC	
GEAR ROOM POWER STRIP		20 A	1	57		1440 VA			1620 VA		58	1	20 A		APP. BAY REC.	
OFFICE 212, 213 REC.		20 A	1	59			1440 VA			1620 VA	60	1	20 A		READY / ELEC. / MECH. ROOM RE	
SPARE		20 A	1	61	0 VA			0 VA			62	1	20 A		SPARE	
SPARE		20 A	1	63		0 VA			0 VA		64	1	20 A		SPARE	
SPARE		20 A	1	65			0 VA			0 VA	66	1	20 A		SPARE	
	kVA kVA	_					i <mark>ker O</mark> Powerlii	ption nk AS Br	eaker							
				С	15.5	kVA	_				LO - F	Handle I	_ock-off	Device		
			Total:		46.6	kVA					ST - S	hunt T	ір Туре			
			Amps:			9 A	_						ry Conta			
											PA - F	landle l	Padlock	Attchment		
											GFCI	- Grour	d Fault	Circuit Inter	rupter	
											HACE	R - Heati	ng, A/C	& Refrigerat	tion	
(All Phases to be balanced to within 7% Actual Load Tot											SF - S	Subfeed				
									TC - Time Clock Control							



CONSULTANTS:			

MARK	DATE	DESCRIPTION



SMP/CMP SMP/CMP JULY 2022 VGFD2001 AS SHOWN

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



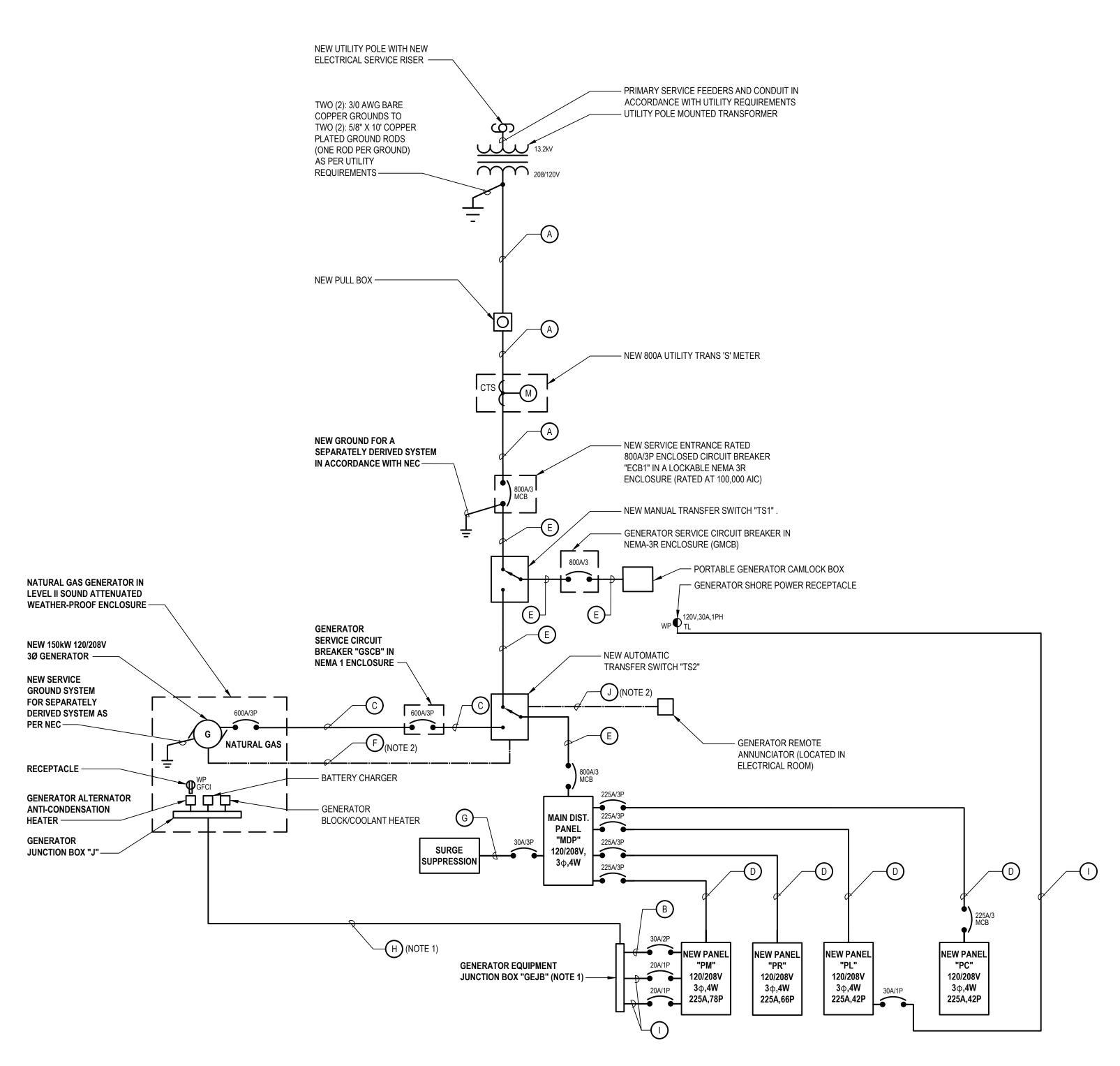
872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT G GENERAL CONSTRUCTION

REGULATORY REVIEW

ELECTRICAL PANEL SCHEDULES NEW FIRE STATION PHASE 2

E2 601.00



1 Electrical Single Line Diagram SCALE: NTS

SINGLE LINE NOTES:

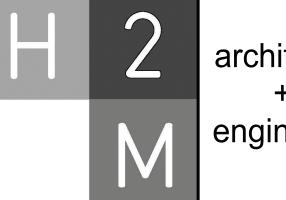
- 1. CONTRACTOR SHALL COMBINE CIRCUITS INTO ONE CONDUIT TO GENERATOR.
- 2. BELDEN '9729' CABLE SHALL BE ROUTED CONTINUOUS FROM GENERATOR TO GENERATOR REMOTE ANNUNCIATOR.

FEED	ER SCHEDULE
FEEDER	COPPER CONDUCTOR AND CONDUITS FEEDER SCHEDULE
Α	2 SETS OF 4-500 MCM IN (2) 4" E.C.
В	2 #8 AWG + #8 AWG GND IN 1" E.C.
С	2 SETS OF 4-350 MCM + #1 AWG GND IN (2) 3-1/2" E.C.
D	4 #4/0 AWG + #4 AWG GND IN 2-1/2" E.C.
Е	2 SETS OF 4-500 MCM +#1/0 AWG GND IN (2) 4" E.C.
F	10 #14 AWG + BELDEN 9729 IN 1-1/4" E.C. (CONTROLS / ALARMS) (BELOW GRADE)
G	MICRO Z, LOW INDUCTANCE CABLE IN 1" E.C.
Н	6 #8 AWG + 3 #8 AWG GND IN 1-1/2" E.C.
I	2 #10 AWG + #10 AWG GND IN 3/4" E.C.
J	BELDEN 9729 IN 1-1/4" E.C.

DISCONNEC	DISCONNECT SWITCH SCHEDULE												
DISCONNECT SWITCH IDENTIFICATION	ТҮРЕ	ENCLOSURE	VOLTS	POLES	FRAME SIZE AMPS	FUSE RATING							
DS1	UNFUSED	NEMA 3R	208V	3	60	-							
DS2	UNFUSED	NEMA 3R	208V	2	30	-							
DS3	UNFUSED	NEMA 1	208V	3	30	-							
DS4	UNFUSED	NEMA 1	208V	3	100	-							

TRANSFER SWITCH SCHEDULE							
TRANSFER SWITCH IDENTIFICATION	TYPE	ENCLOSURE	VOLTS	PHASE	POLES	AMPS	
TS1	MANUAL	NEMA 1	208	3Ø	4	800	
TS2	AUTOMATIC	NEMA 1	208	3Ø	4	800	

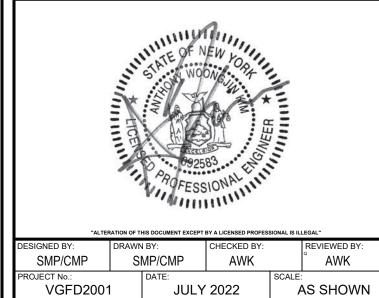
MOTOR STARTER SCHEDULE							
IDENTIFICATION	NEMA SIZE	VOLTS / PHASE	ENCLOSURE TYPE	DISCONNECT AMPS / POLE	ACCESSORIES		
S 1	0	208 / 3Ø	NEMA 1	30A/3P	H-O-A SWITCH, RUN AND OVERLOAD LIGHT		



538 Broad Hollow Road, 4th Floor East Melville, NY 11747
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CONSULTANTS:

MARK	DATE	DESCRIPTION



VAILS GATE FIRE DISTRICT

New Storage Building (Phase I) New Fire Station (Phase II)



872 Blooming Grove Turnpike New Windsor, NY 12553

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET T

ELECTRICAL SINGLE LINE
DIAGRAM
NEW FIRE STATION
PHASE 2

DRAWING No.

E2 610.00