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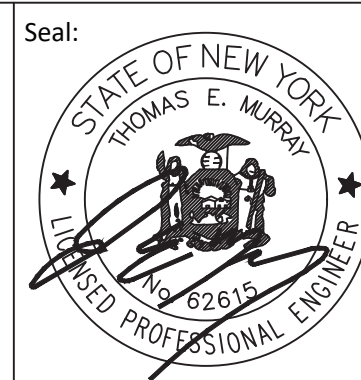
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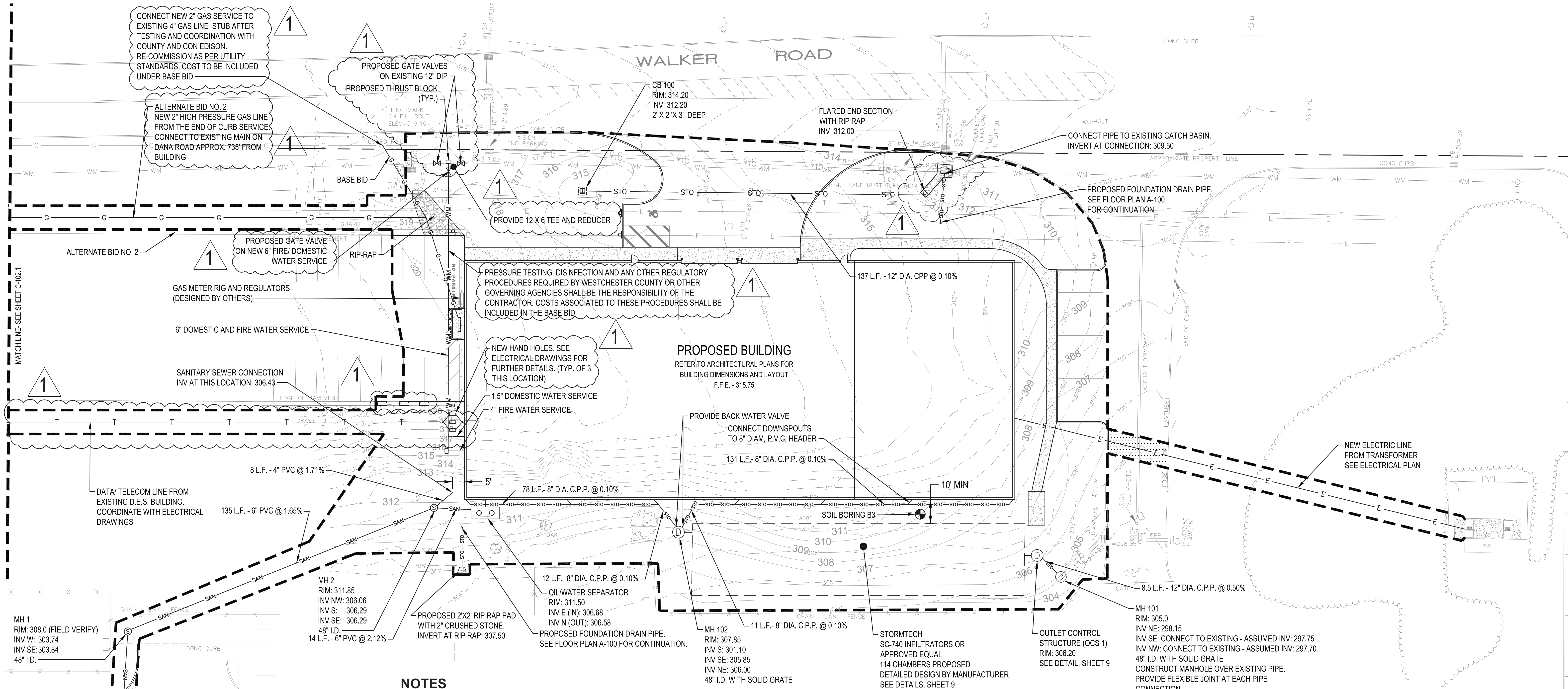
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914.747.2800
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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/20/21	JS	DC	ADDENDUM #3

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME	NAME	SIGNATURE	SIGNATURE
SIGNATURE	SIGNATURE	TITLE	TITLE
TITLE	TITLE	DATE	DATE

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING
NEW EQUIPMENT STORAGE BUILDING
RICHARD A. FLYNN, SR. FIRE TRAINING CENTER
VALHALLA CAMPUS, VALHALLA, NEW YORK
SITE PLAN

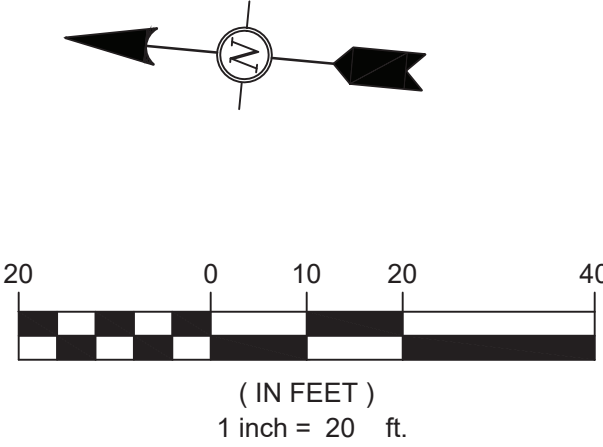
CONTRACT NUMBER	SHEET NUMBER
17-521	C-100
SHEET NO. 3 OF 53	
SCALE: AS SHOWN DATE: 11/16/2021	
DPW FILE NO.	REV. NO.
38-47-G-685-0	1



NOTES

- 1. REFER TO SHEET C-104, CIVIL DETAILS, FOR GENERAL NOTES.
- 2. ALL WATERMAIN PIPE SHALL BE DIP, CLASS 52. ALL WATERMAIN SHALL HAVE MINIMUM 8'-0" BURY (TOP OF PIPE TO FINISH GRADE). DIP SHALL BE ENCASED WITH POLYETHYLENE FILM CONFORMING TO ASTM D 1248-889.
- 3. ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 3034, SDR 35), UNLESS OTHERWISE NOTED. SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321.
- 4. ALL STORM SEWER PIPE SHALL BE CPP, WITH FLEXIBLE WATERTIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.
- 5. FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
 - a. PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
 - b. ACCEPTABLE MANUFACTURERS / PRODUCTS:
 - i.
 - ii.
 - iii. OR APPROVED EQUAL.
- 6. WATERMAIN SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
- 7. ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
- 8. LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.
- 9. PRIOR TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (STORM, SANITARY SEWER, WATERMAIN), VERIFY ALL PROPOSED BUILDING UTILITY SERVICE PIPE SIZES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.
- 10. CONTRACTOR SHALL STAKE LIMITS OF WALKS AND CURBING PRIOR TO INSTALLATION OF GATE VALVES, CATCH BASINS AND MANHOLES. GATE VALVE AND MANHOLE LOCATIONS SHALL BE ADJUSTED TO AVOID PLACEMENT OF THESE STRUCTURES IN WALKS AND CURB AND GUTTER. CURB AND GUTTER SHALL BE STAKED TO ALLOW CURB INLET TYPE CATCH BASINS TO BE PROPERLY LOCATED IN LINE WITH CURBING.
- 11. THE CONTRACTOR SHALL BE REQUIRED TO SUPPLY SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL FOR THE UNDERGROUND STORAGE SYSTEM PRIOR TO INSTALLATION.
- 12. SEE SHEET C-102.1 FOR NOTES SPECIFIC TO THE GAS CONNECTION

DESCRIPTION	SYMBOL	
	EXISTING	PROPOSED
DRAINAGE PIPE	STO	STO
SANITARY PIPE	SAN	SAN
GAS MAIN	G	G
WATER MAIN	WM	WM
TELEPHONE	T	T
ELECTRIC	E	E
DRAINAGE MANHOLE		⊙
SANITARY MANHOLE	⊙	⊙
CATCH BASIN		⊞
RIP RAP		▨
FLARED END SECTION		▷
GATE VALVE		⋈



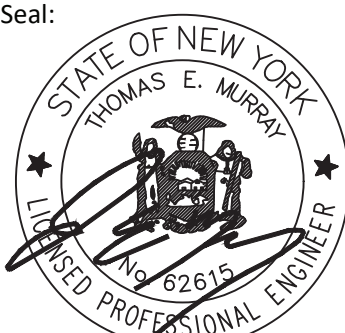
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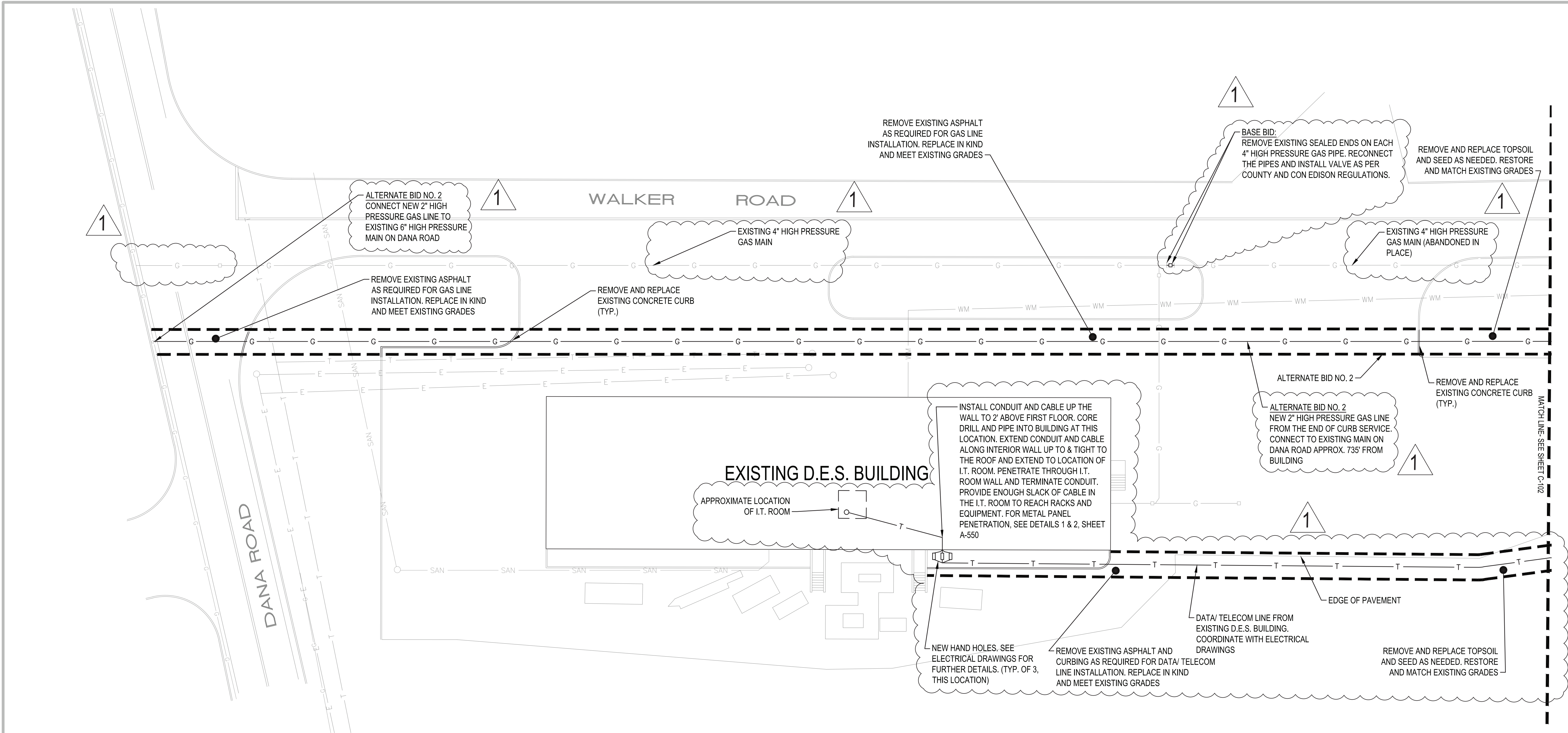
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WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING
NEW EQUIPMENT STORAGE BUILDING
RICHARD A. FLYNN, SR. FIRE TRAINING CENTER
VALHALLA CAMPUS, VALHALLA, NEW YORK
UTILITY PLAN

CONTRACT NUMBER	SHEET NUMBER
17-521	C-102
SHEET NO. 5 OF 53	
SCALE: AS SHOWN	DATE: 11/16/2021
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38-47-G-687-0	1



1

GAS CONNECTION NOTES

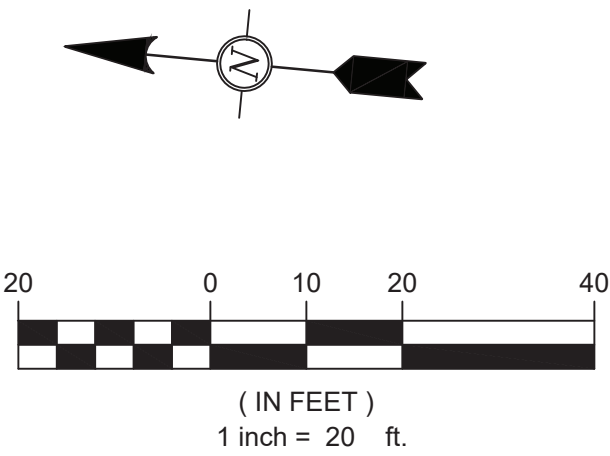
- PRIOR TO ANY GAS WORK COMMENCING, FINAL APPROVAL MUST BE OBTAINED FROM WESTCHESTER COUNTY AND CON EDISON TO ALLOW POTENTIAL USE OF THE EXISTING 4" GAS MAIN AS SHOWN ON THE PLANS.
- ONCE APPROVALS ARE OBTAINED FOR THE ABANDONED MAIN, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ANY AND ALL TESTING NECESSARY TO ENSURE THAT THE ABANDONED MAIN COULD BE PUT BACK INTO SERVICE AND HOLD THE NECESSARY PRESSURES TO SERVE THE BUILDING. COSTS ASSOCIATED TO THIS WORK SHALL BE INCLUDED UNDER THE BASE BID.
- PENDING RESULTS OF TESTING, THE CONTRACTOR SHALL THEN PERFORM THE NECESSARY MEASURES TO RECONNECT THE LINE AND MAKE IT OPERATIONAL.
- THE WORK OUTLINED IN THESE NOTES SHALL BE IN LIEU OF THE 4" GAS LINE CONNECTION AT DANA ROAD. THIS WORK IS NOT TO REPLACE ALTERNATE NO. 2. ALTERNATE NO. 2 SHALL BE USED IN THE EVENT THAT THE ABANDONED MAIN CAN NOT BE PLACED BACK INTO SERVICE.

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DESCRIPTION	SYMBOL	
	EXISTING	PROPOSED
DRAINAGE PIPE	— STO —	— STO —
SANITARY PIPE	— SAN —	— SAN —
GAS MAIN	— G —	— G —
WATER MAIN	— WM —	— WM —
TELEPHONE	— T —	— T —
ELECTRIC	— E —	— E —
DRAINAGE MANHOLE	⊙	⊙
SANITARY MANHOLE	⊙	⊙
CATCH BASIN	■	■
RIP RAP		▨
FLARED END SECTION		▷
GATE VALVE		⋈

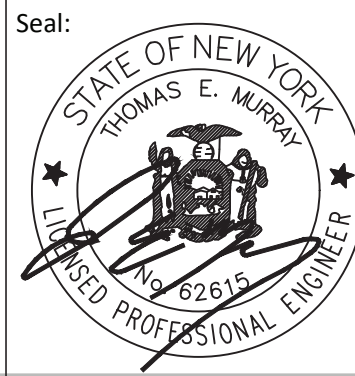


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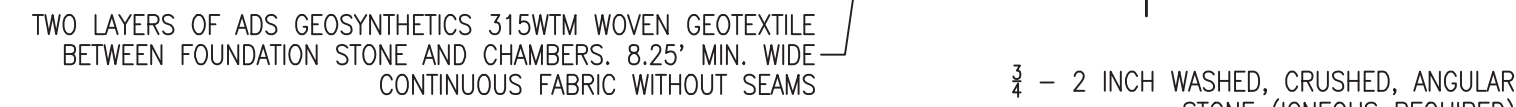
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WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

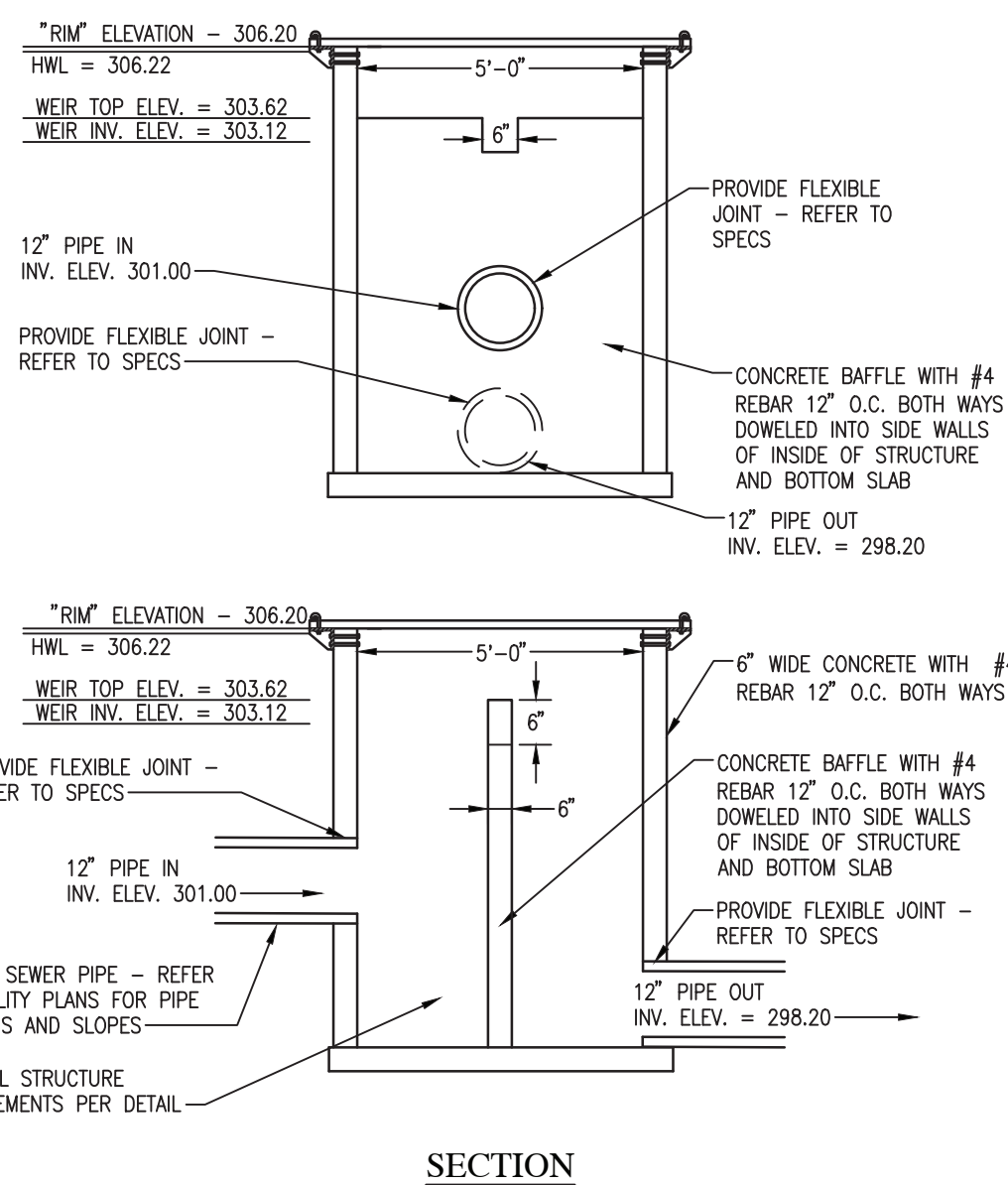
NEW EQUIPMENT STORAGE BUILDING
RICHARD A. FLYNN, SR. FIRE TRAINING CENTER
VALHALLA CAMPUS, VALHALLA, NEW YORK
GAS AND TELEPHONE LINE PLAN

CONTRACT NUMBER	SHEET NUMBER
17-521	C-102.1
SHEET NO. 6 OF 53	
SCALE: AS SHOWN	DATE: 11/16/2021
DPW FILE NO.	REV. NO.
38-47-G-688-0	1

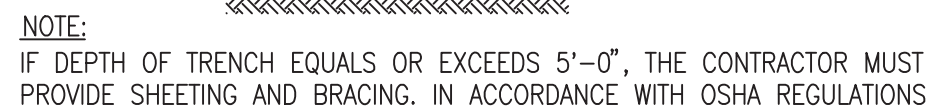


1. SUPPLIERS SHALL USE 30% VOID SPACE FOR AGGREGATE STORAGE (STONE VOIDS)
2. THE EXFILTRATION VELOCITY (CONSTANT VELOCITY) FOR THE REQUESTED APPROVED EQUAL SYSTEM SHALL NOT EXCEED 0.3 INCHES PER HOUR.
3. THE SYSTEM BASE AREA AT THE BOTTOM OF THE ROCK SHALL NOT BE LESS THAN 480 SQUARE FEET.
4. THE VOLUME OF THE SYSTEM, INCLUDING VOID SPACE, SHALL NOT BE LESS THAN 500 CUBIC FEET.

UGS 1	
STORAGE	0.185 <i>af</i>
LENGTH	138.9 FEET
WIDTH	30.0 FEET
CHAMBERS	6 X 19
INVERT	301.00
BOTTOM OF ROCK	300.50
ROWS	6
CHAMBERS PER ROW	19



N.T.S.

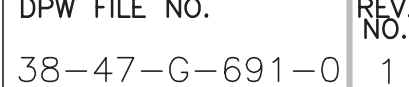


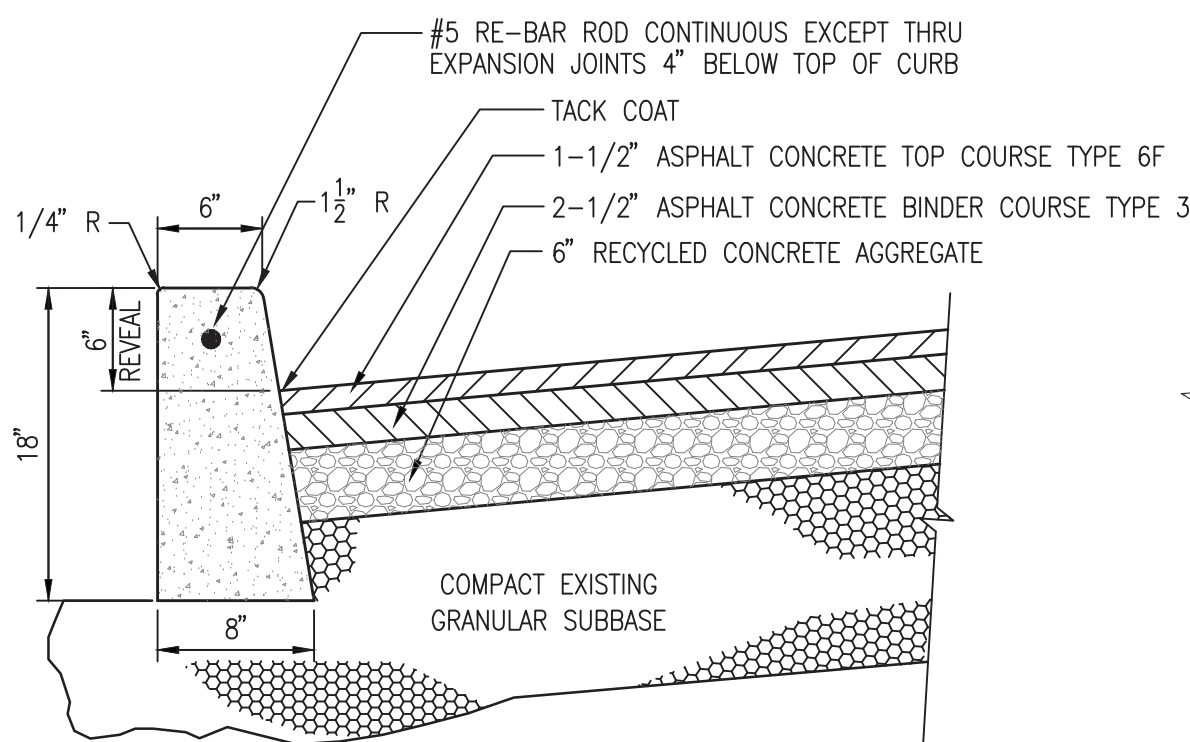
NOTE:
IF DEPTH OF TRENCH EQUALS OR EXCEEDS 5'-0", THE CONTRACTOR
MUST PROVIDE SHEETING AND BRACING, IN ACCORDANCE WITH OSHA REGULATIONS

•REQUIRED RESTRAINED JOINT AT FITTING ONLY USE
MEGALUG MECHANICAL JOINT RESTRAINT OR APPROVED EQUAL

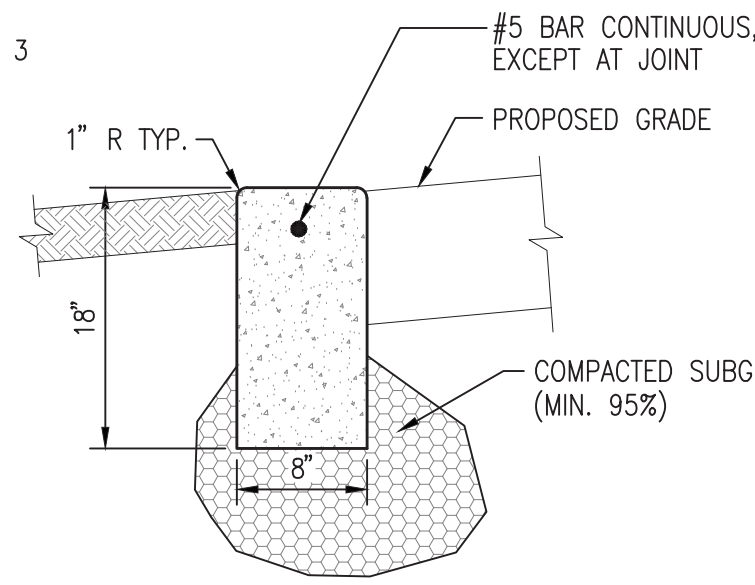
AFTER SATISFACTORY HYDROSTATIC TESTING, THE COMPLETED WATER WORK SHALL BE DISINFECTED IN ACCORDANCE WITH THE SPECS

AFTER THE PIPE HAS BEEN LAID AND BACKFILLED, ALL NEWLY LAID PIPE, OR VALVED SECTION SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE AND LEAKAGE TEST PER SPECS. ALL WATER MAINS MUST BE HYDROSTATICALLY TESTED. THE TESTS MUST BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF WESTCHESTER COUNTY DPW.

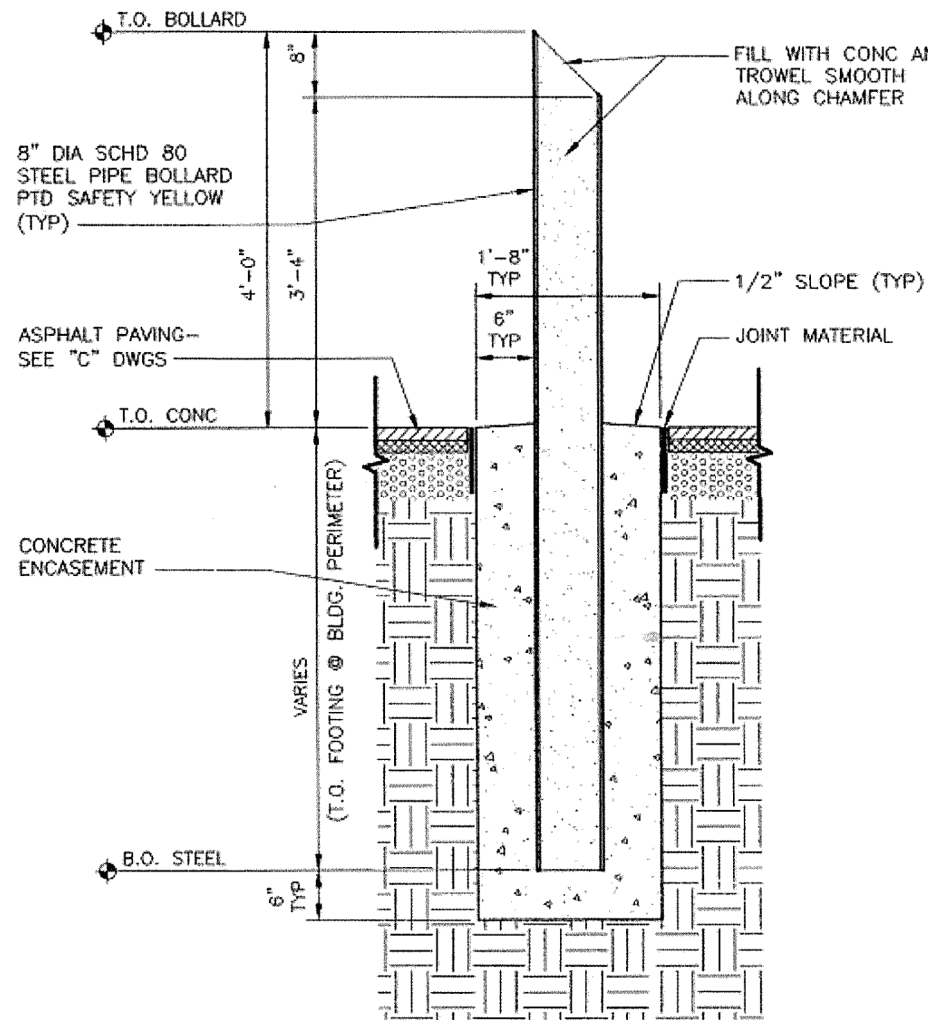




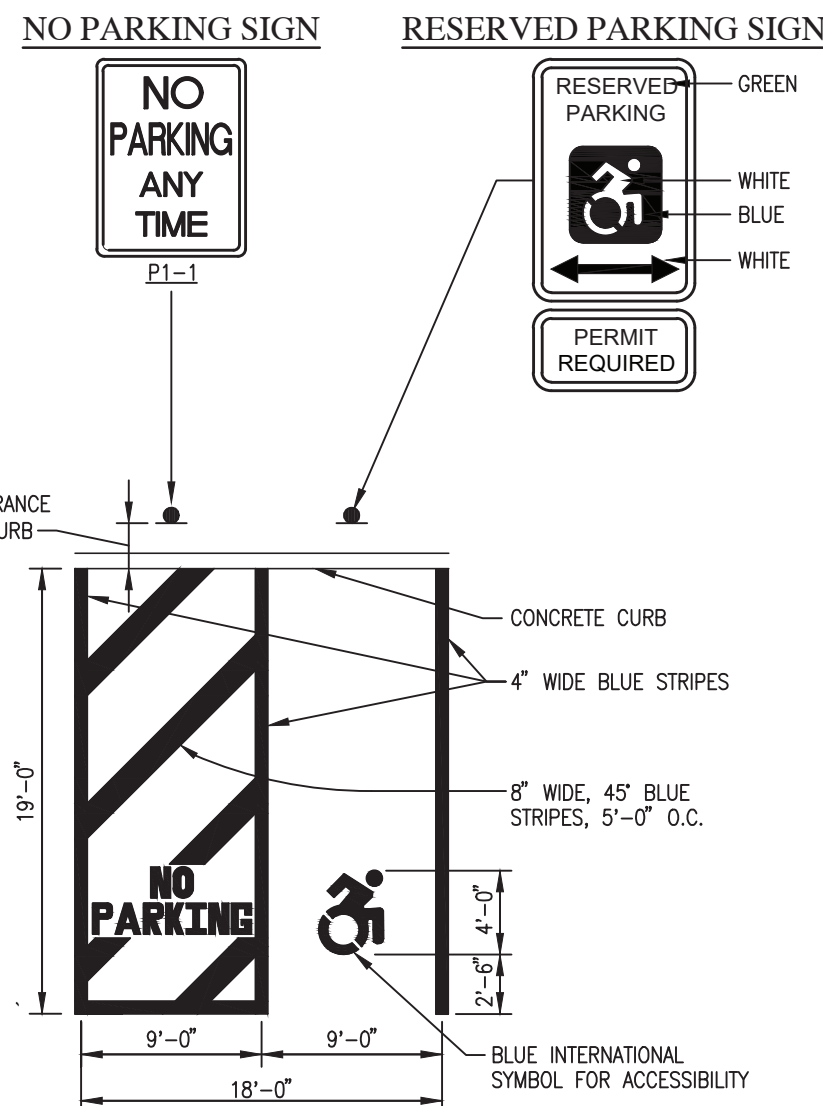
SEE CIVIL NOTES, THIS SHEET
CONCRETE CURB/PAVEMENT SECTION
N.T.S.



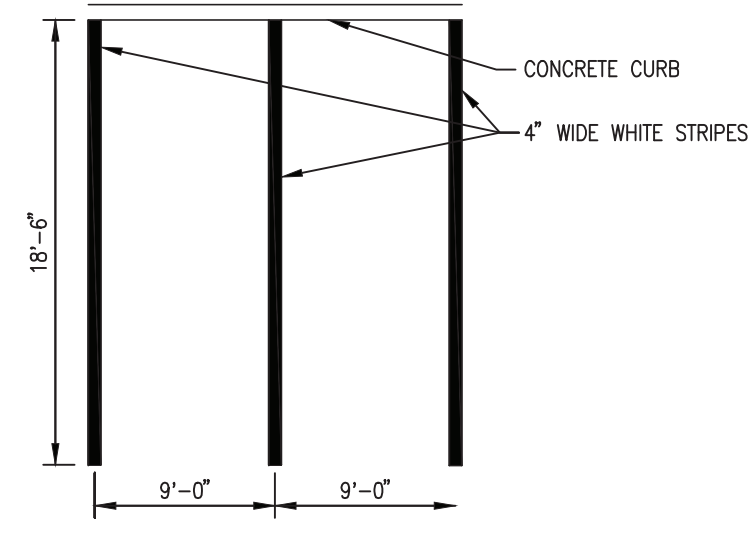
SEE CIVIL NOTES, THIS SHEET
FLUSH CONCRETE CURB DETAIL
N.T.S.



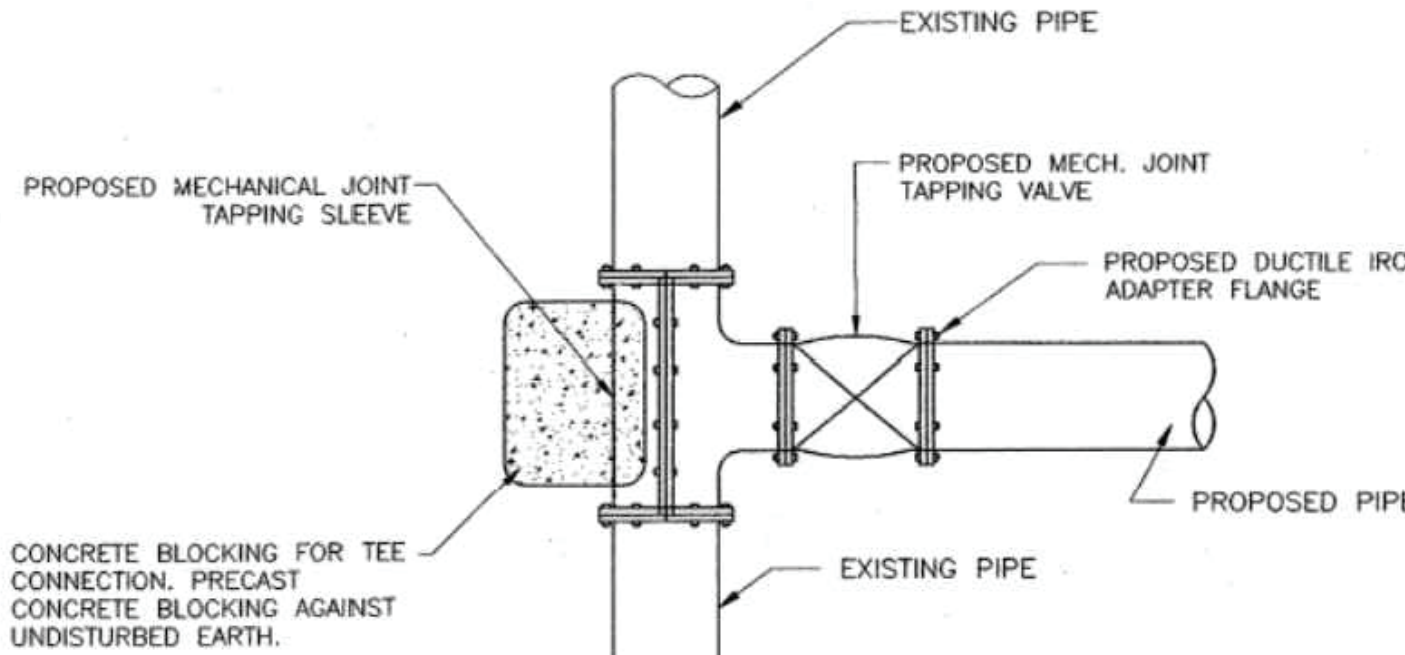
BOLLARD DETAIL
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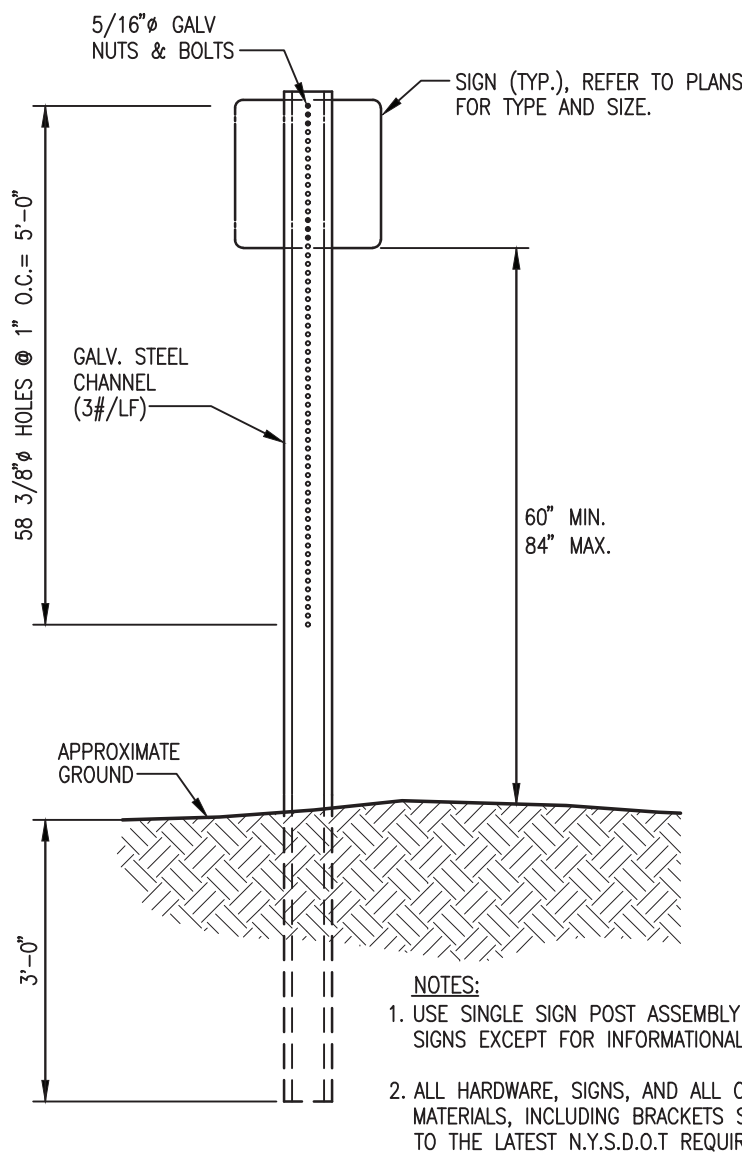
SEE CIVIL NOTES, THIS SHEET
RESERVED PARKING STALL DETAIL
N.T.S.



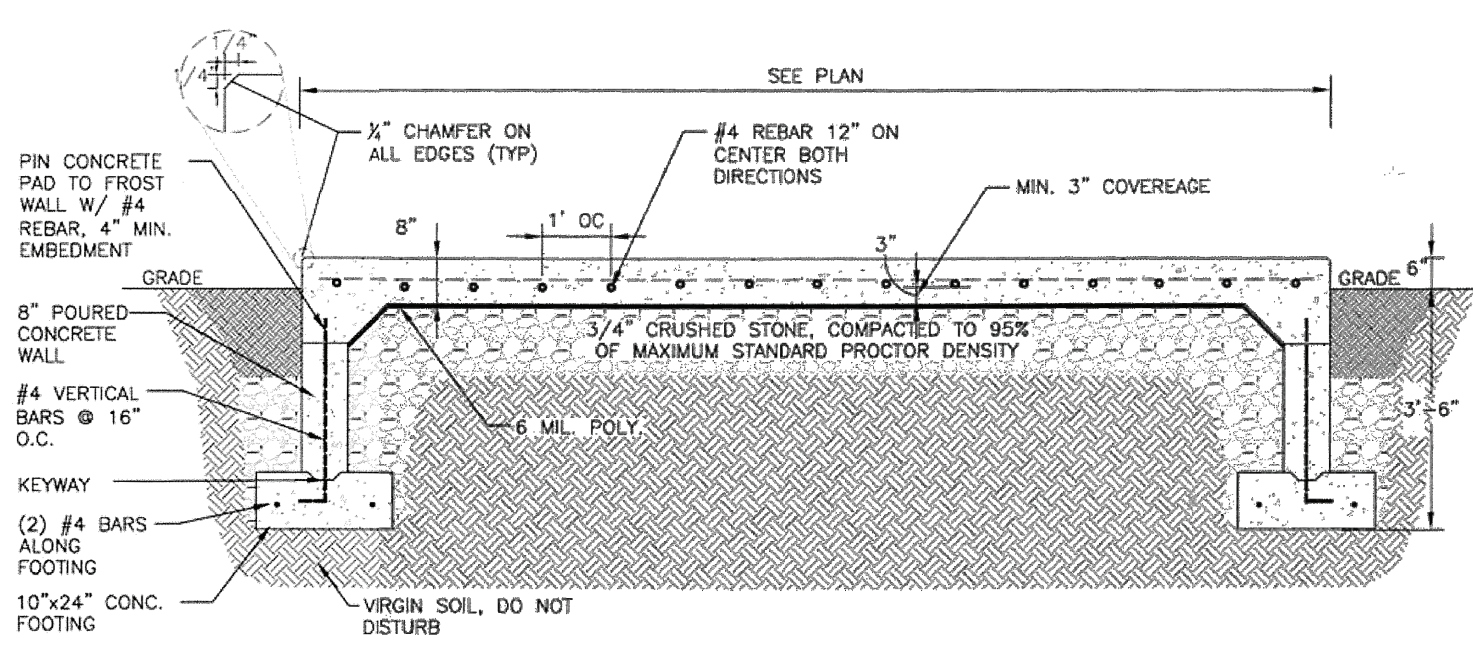
SEE CIVIL NOTES, THIS SHEET
TYPICAL PARKING STALL LAYOUT
N.T.S.



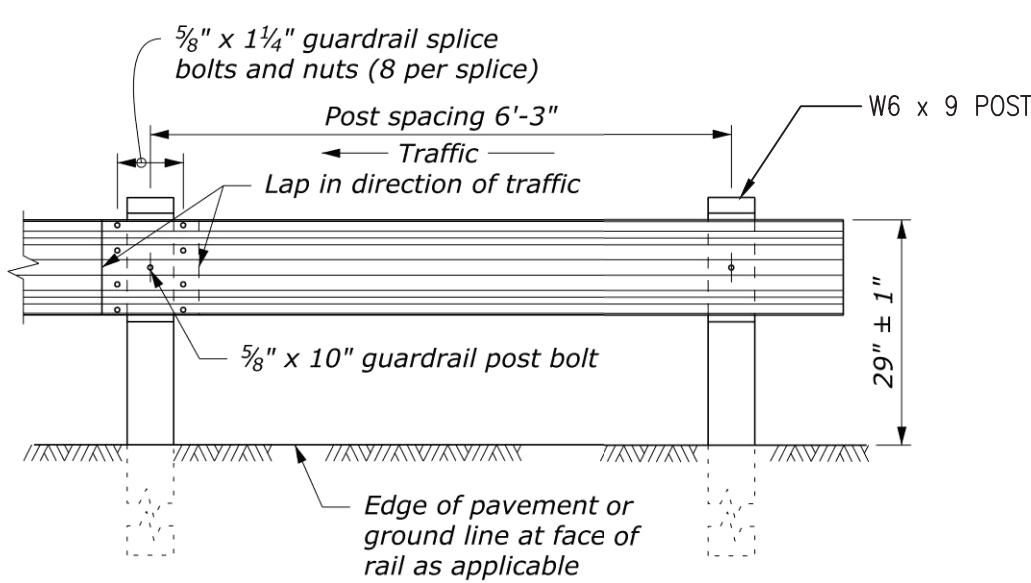
TAPPING SLEEVE AND VALVE DETAIL
N.T.S.



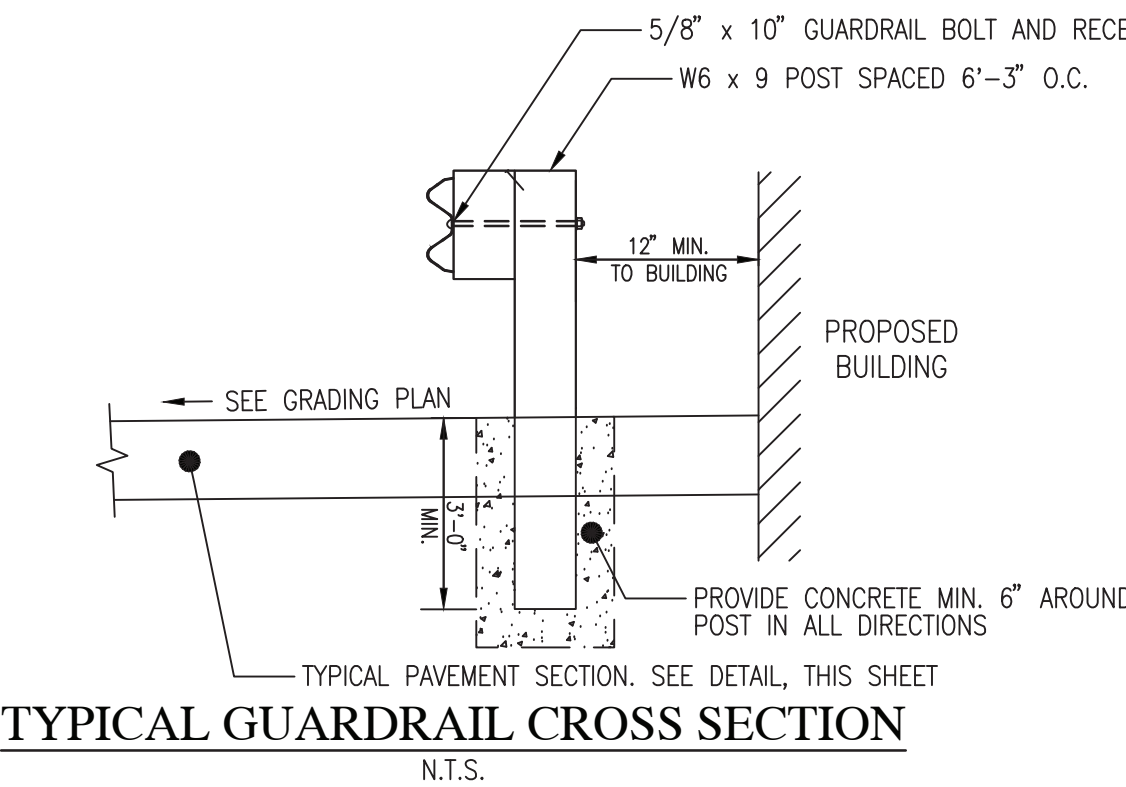
SIGN ASSEMBLY DETAILS
N.T.S.



CONCRETE GENERATOR SLAB DETAIL
N.T.S.

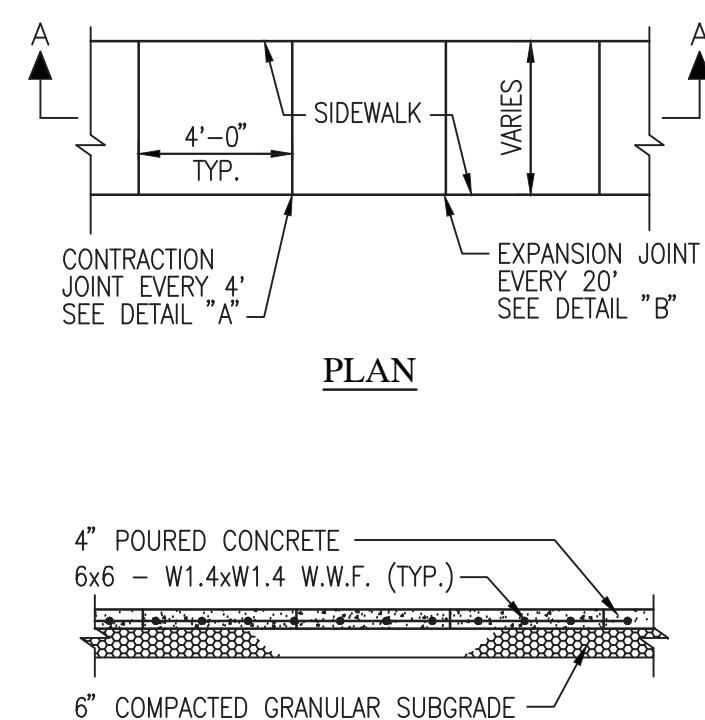


POST SECTION
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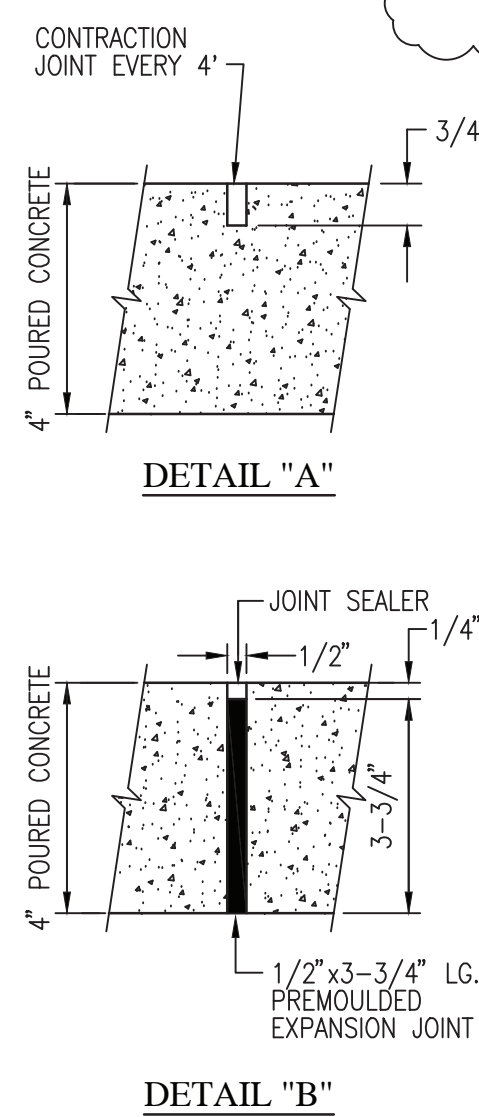


TYPICAL GUARDRAIL CROSS SECTION
N.T.S.

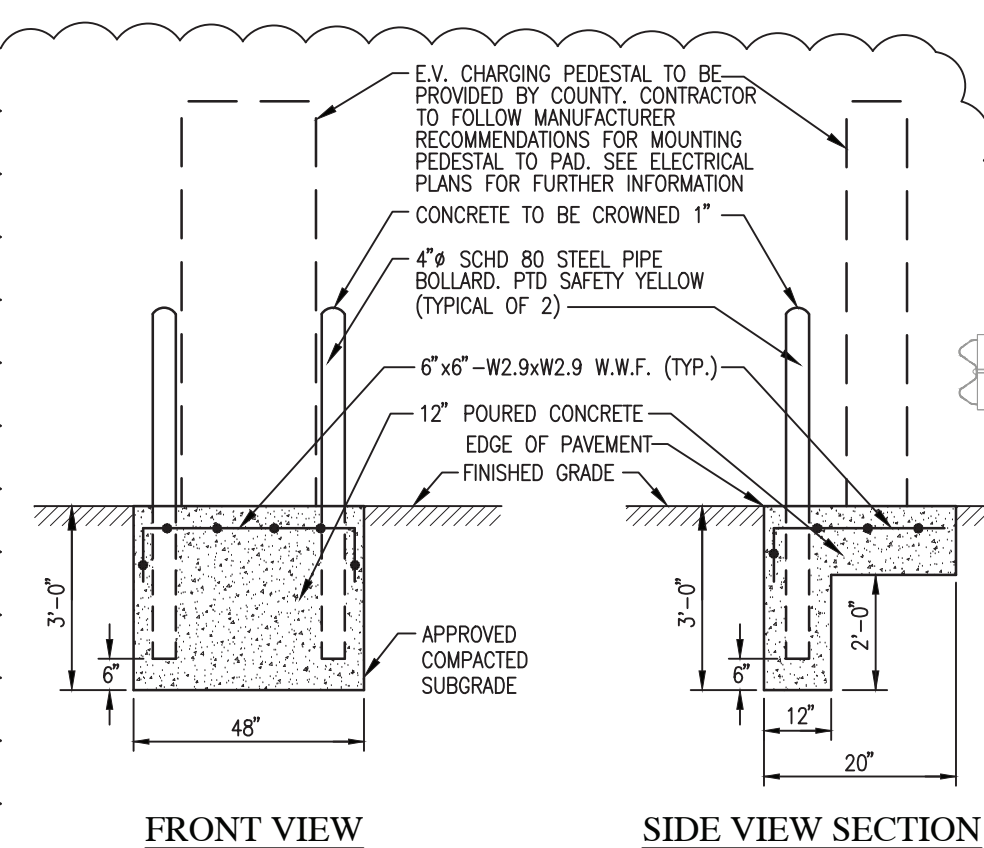
- CIVIL NOTES:**
1. CONCRETE FOR CURBS AND SIDEWALKS SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 P.S.I. AT 28 DAYS.
 2. MAXIMUM SPACING OF EXPANSION JOINTS TO BE 20 FEET.
 3. CONCRETE CURBS TO CURE A MINIMUM OF 14 DAYS PRIOR TO ROADWAY PAVING.
 4. SUBBASE TO BE MECHANICALLY COMPACTED TO 95% MAX. DENSITY PER AASHTO T-99
 5. ALL HANDICAP RAMPS, PARKING SPACES AND ACCESS ISLES SHALL BE IN COMPLIANCE WITH THE LATEST NEW YORK STATE UNIFORM PREVENTION, BUILDING CODE AND ICC/ANSI A117.1 STANDARDS.
 6. EXISTING PAVEMENT TO BE SAWCUT AS REQUIRED PRIOR TO PAVING OPERATIONS, MINIMUM 2' FROM PROPOSED CURBS



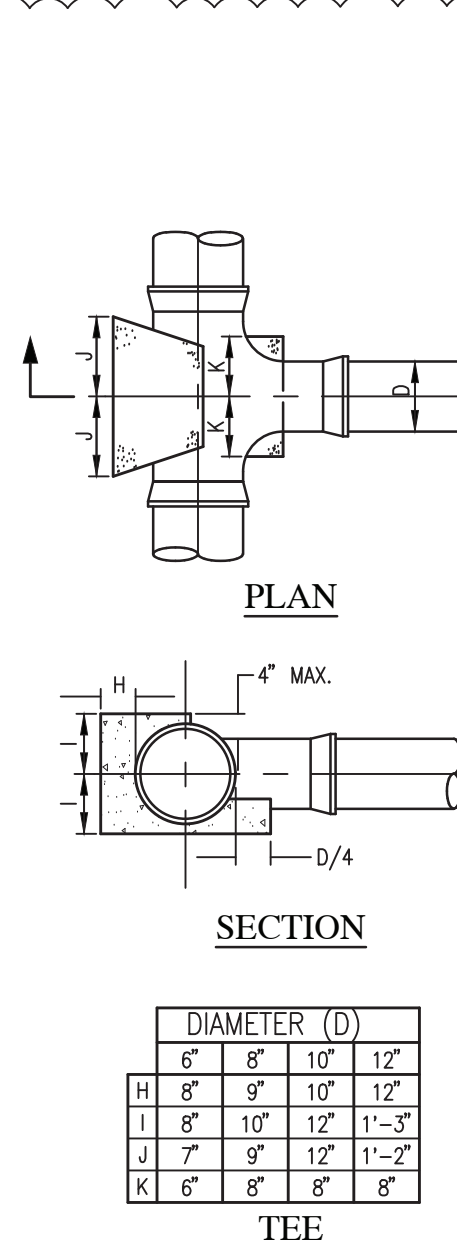
1. NOT FOR GENERATOR PAD
CONCRETE SIDEWALK DETAILS
N.T.S.



DETAIL "B"



E.V. CHARGING STATION PAD DETAIL
N.T.S.



HORIZONTAL BEND

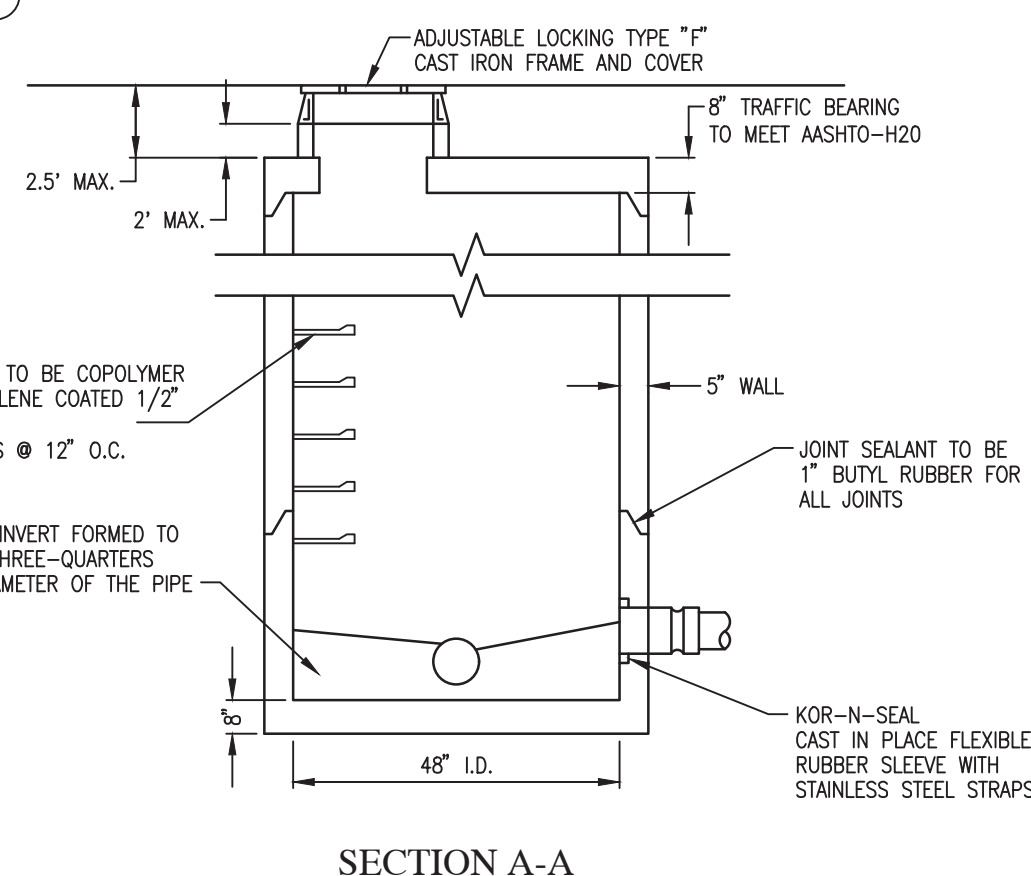
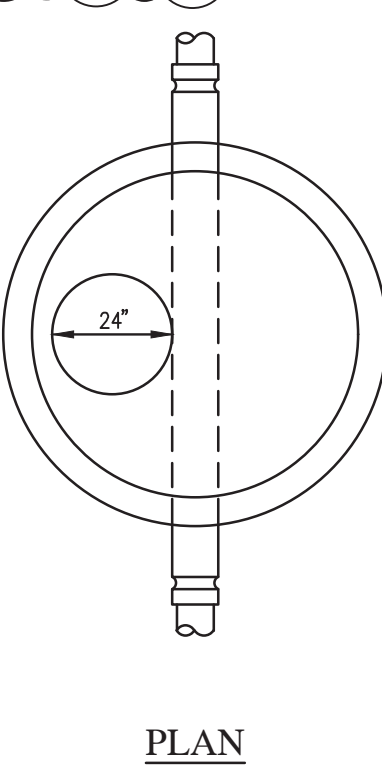
BEND	DIAMETER (D)			
	6"	8"	10"	12"
1/32	A 1'-6"	2'-0"	2'-6"	3'-0"
	B 1'-3"	1'-6"	1'-9"	2'-0"
	C 2'-0"	2'-6"	2'-9"	3'-0"
1/16	A 2'-0"	3'-4"	3'-8"	4'-0"
	B 1'-9"	2'-3"	2'-6"	2'-9"
	C 2'-6"	2'-9"	3'-0"	3'-6"
1/8	A 2'-6"	3'-0"	4'-0"	4'-6"
	B 2'-6"	2'-9"	3'-0"	3'-6"
	C 3'-0"	4'-0"	4'-6"	4'-9"

TEE

	DIAMETER (D)			
	6"	8"	10"	12"
H	8"	9"	10"	12"
I	8"	10"	12"	1'-3"
J	7"	9"	12"	1'-2"
K	6"	8"	8"	8"

NOTE:
ALL BLOCKS TO BE PLACED/POURED AGAINST UNDISTURBED EARTH.

THRUST BLOCK DETAILS
N.T.S.



SANITARY MANHOLE DETAIL
N.T.S.

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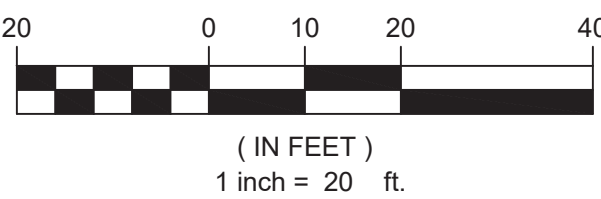
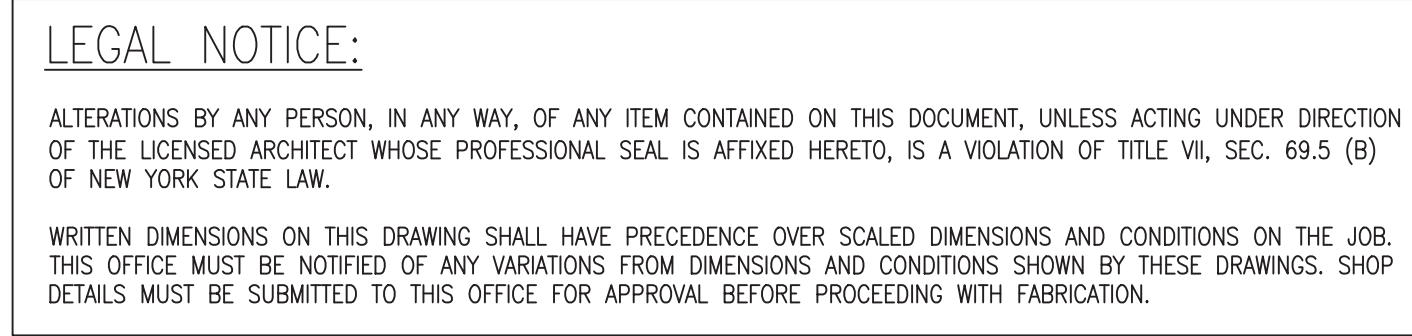
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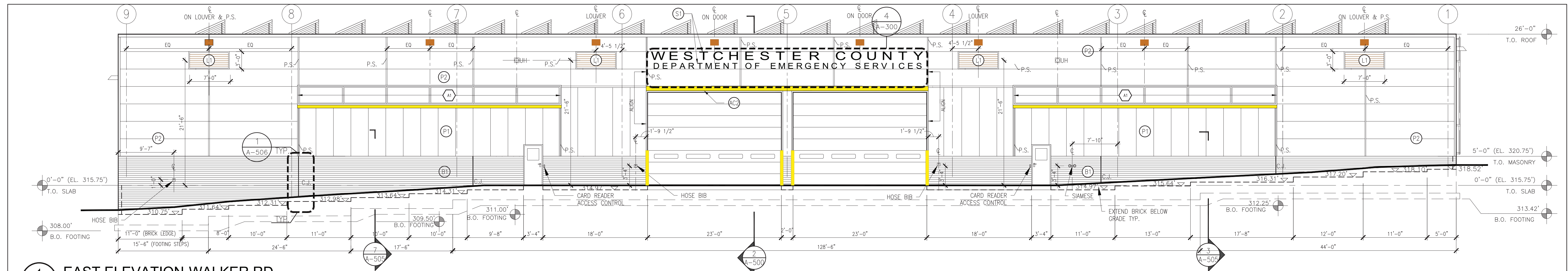
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VALHALLA CAMPUS, VALHALLA, NEW YORK
CIVIL DETAILS III

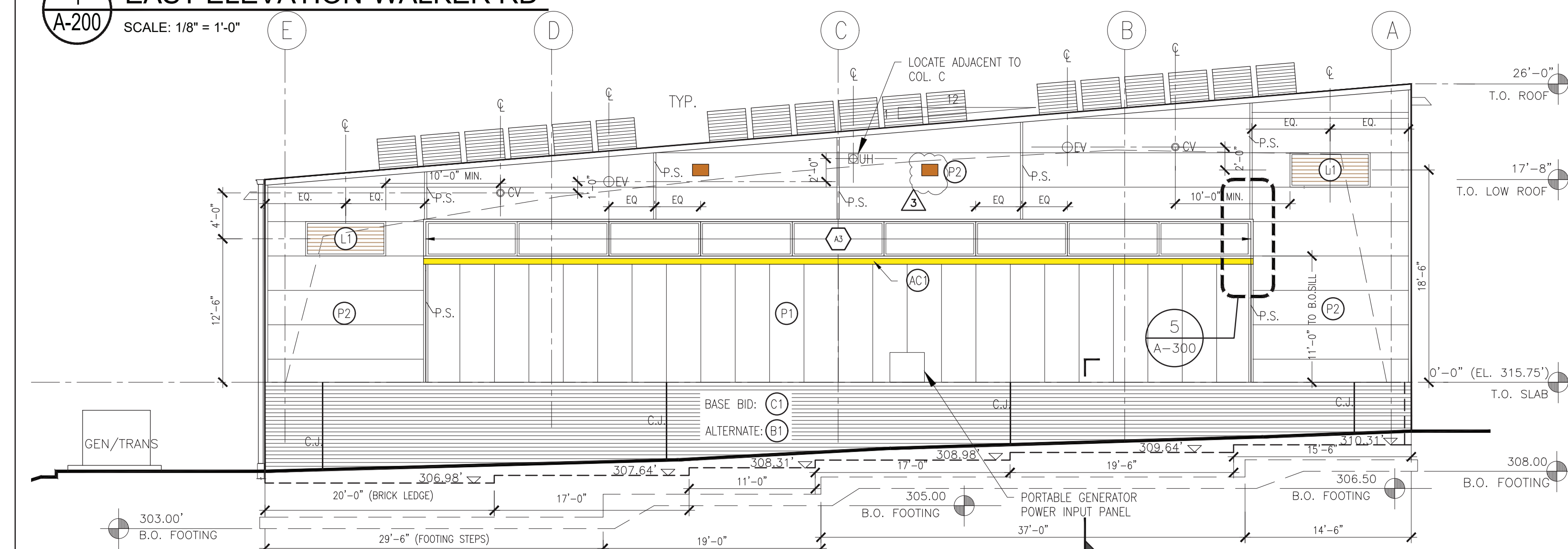
CONTRACT NUMBER	SHEET NUMBER
17-521	C-106
SHEET NO. 10 OF 53	
SCALE: AS SHOWN	
DATE: 11/16/2021	
DPW FILE NO.	
38-47-G-692-0	REV. NO. 1



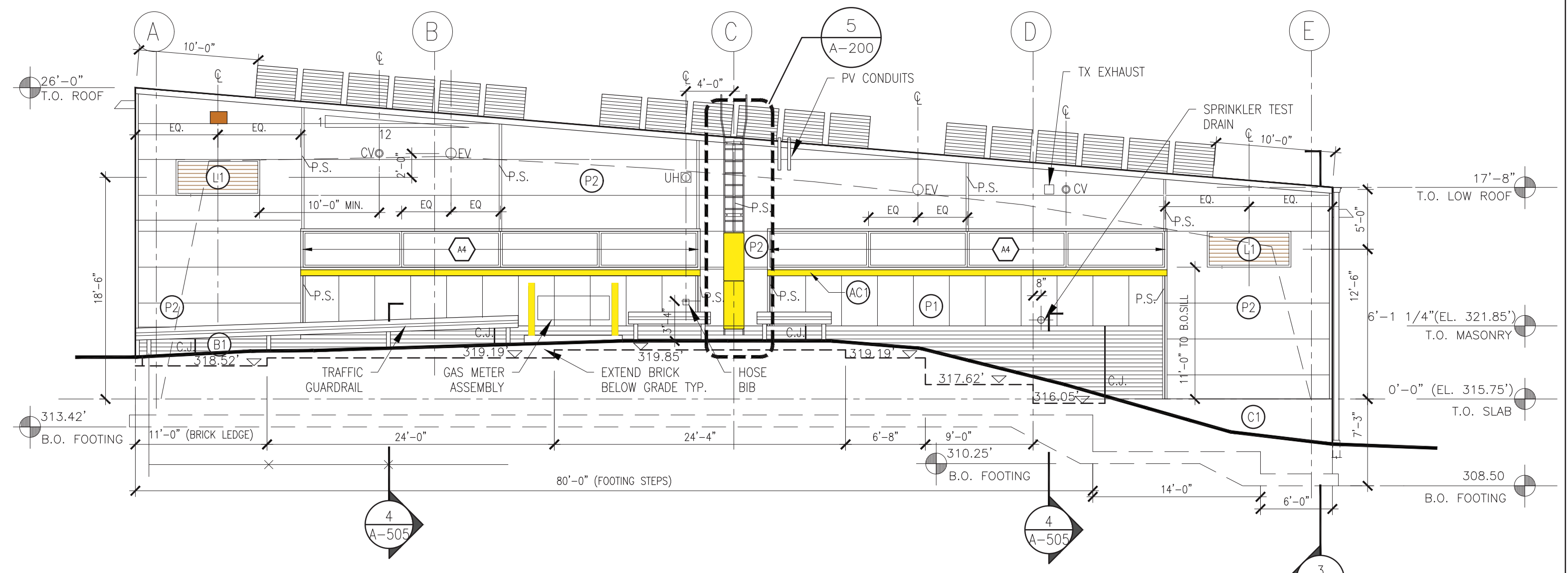
CONTRACT NUMBER 17-521	SHEET NUMBER C-107
SHEET NO. 11 OF 53	
SCALE: AS SHOWN DATE: 10/21/2021	
DPW FILE NO. 38-47-G-693-0	REV. NO. 1



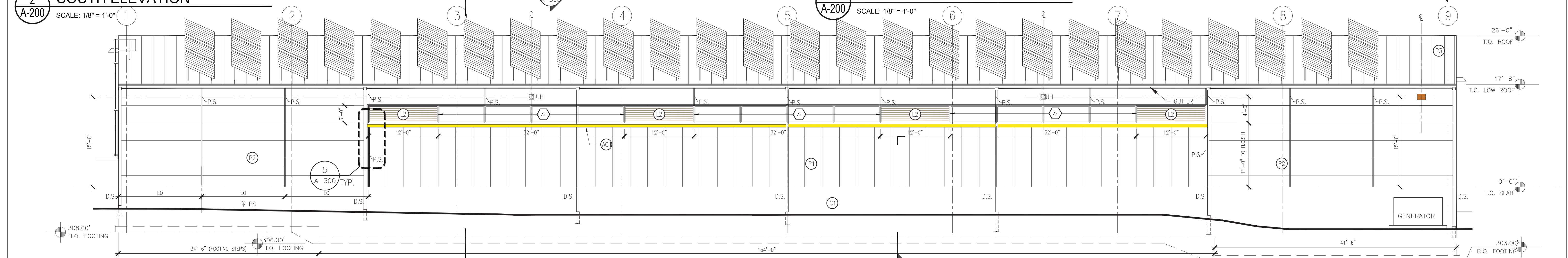
1 EAST ELEVATION-WALKER RD
SCALE: 1/8" = 1'-0"



2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



4 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

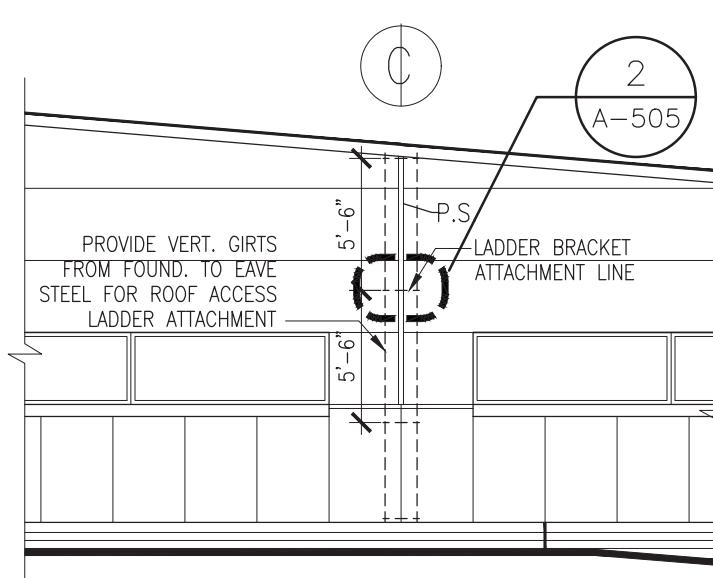


3 WEST ELEVATION
SCALE: 1/8" = 1'-0"

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5 PARTIAL NORTH ELEVATION
SCALE: 1/8" = 1'-0"

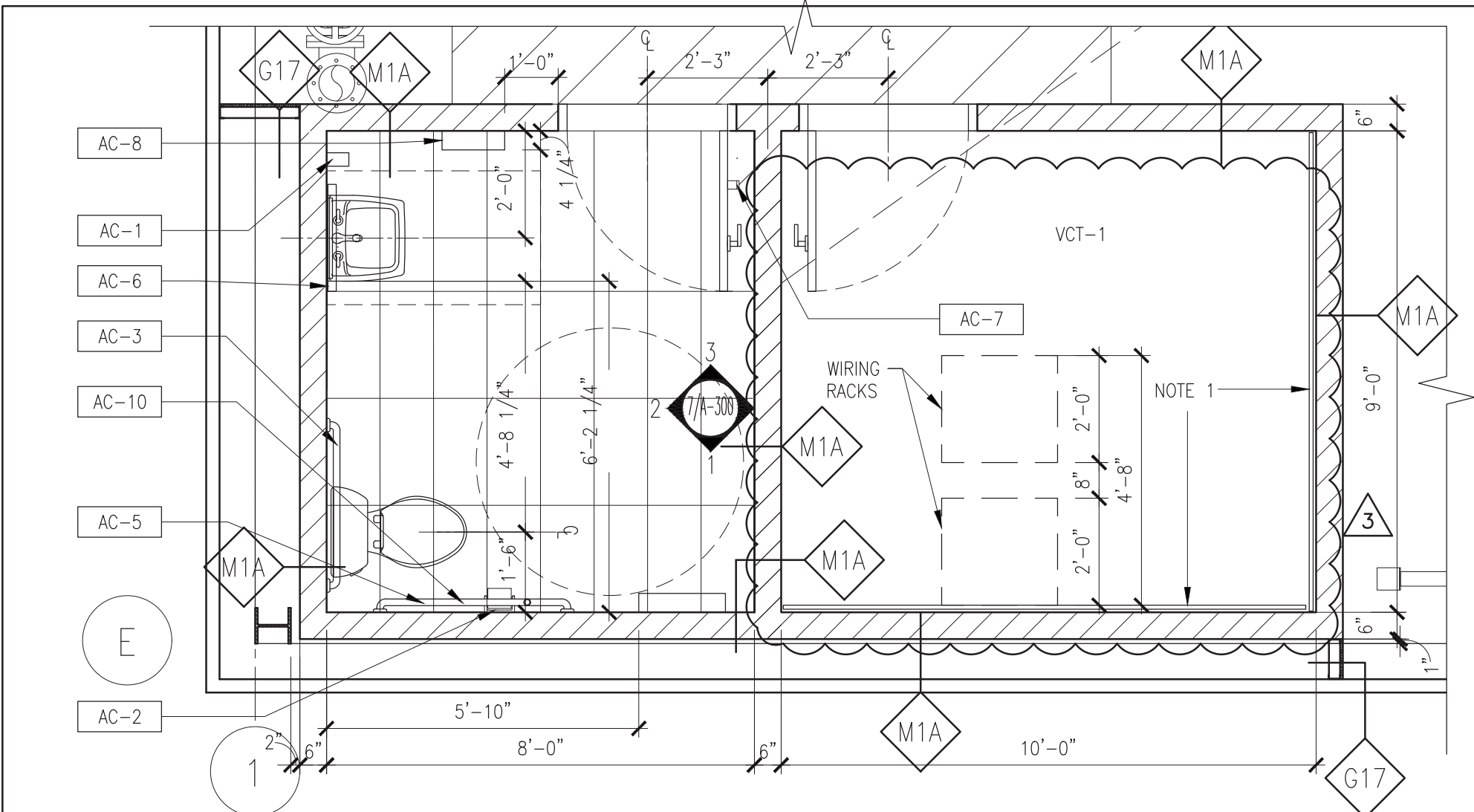
KEY:

ITEM	DESCRIPTION AND COLOR
P1 -	VERTICAL PANEL SYSTEM: MFG-KINGSPAN MODEL-OPTIMO COLOR-SANDSTONE
P2 -	HORIZONTAL PANEL SYSTEM: MFG-KINGSPAN MODEL-OPTIMO COLOR-SANDSTONE
P3 -	ROOF PANEL SYSTEM: MFG-KINGSPAN MODEL-KINGSEAM COLOR-PEARL GRAY
L1 -	LOUVER
L2 -	LOUVER
AC-1 -	ACCENT TRIM - 6" FLASHING @ SILL: (RAL 1018, YELLOW)
AC-2 -	ACCENT TRIM - (RAL 1018, YELLOW)
A1/A2/A3/A4 -	ALUM. WINDOW
CV	CONCENTRIC VENT
EV	EXHAUST VENT
UH	UNIT HEATER VENT

KEY:

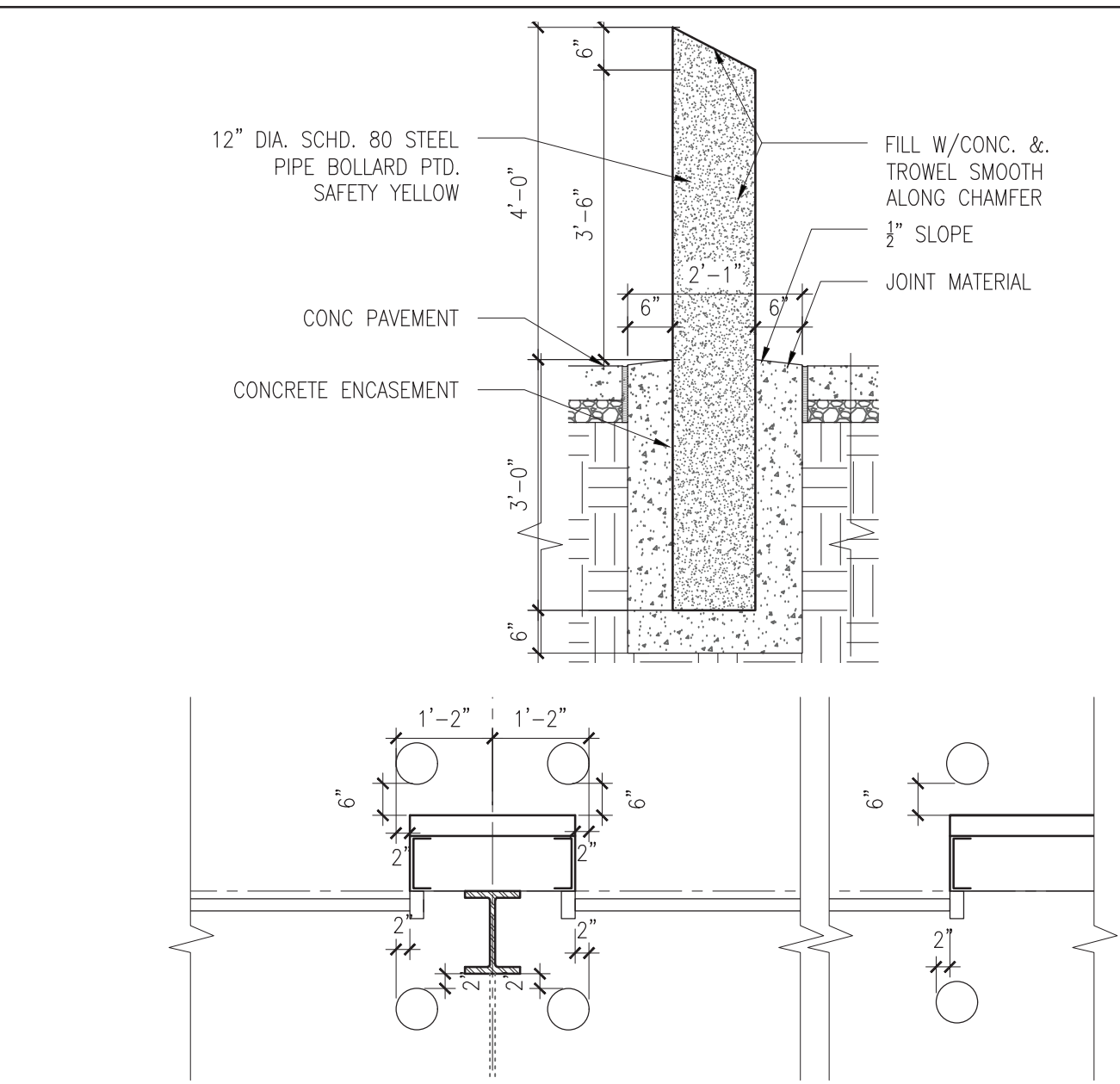
ITEM	DESCRIPTION AND COLOR
B1 -	BRICK BASE: (COLOR & FINISH TO MATCH EXISTING D.E.S. BUILDING)
C1 -	PAINTED CONCRETE BASE
C.J. -	CONTROL JOINT
D.S. -	DOWNSPOUT/GUTTER: (MATCH KINGSPAN TAUPESTONE)
P.S. -	PANEL SEAM
S1 -	SIGNAGE: POWDER COATED CUT ALUMINUM LETTERING, SIGN VENDOR MOUNT TO METAL PANELS WITH APPROVED ADHESIVE, ARIAL FONT (RAL 9003, WHITE)
B	BOLLARD
EXT. LIGHT FIXTURE	

	DCAK - MSA ARCHITECTURE AND ENGINEERING 53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com Email: info@DCAK-MSA.com Tel 845-353-1300 Fax 845-353-1614	RCM Technologies 99 BAUER DRIVE, SUITE 101 OAKLAND, NJ 07436 Tel: 201-416-4012 Fax: 201-337-1099	OLA Consulting Engineers 50 Broadway, Hawthorne, New York 10532 914-747-2800 12 East 49th Street, 11th Flr. New York, NY 10017 646-849-4110 olace.com	2021-5-18 REVISION 		RECORD DRAWING CERTIFICATION <input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES		WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING NEW EQUIPMENT STORAGE BUILDING RICHARD A. FLYNN, SR. FIRE TRAINING CENTER VALHALLA CAMPUS, VALHALLA, NEW YORK ELEVATIONS		CONTRACT NUMBER 17-521	SHEET NUMBER A-200
				1 REVISION NUMBER	12/21/21 DATE	CC MADE BY	DC APP'D BY	ADDENDUM #3 REVISION	NAME SIGNATURE TITLE	PROJECT COORDINATOR NAME SIGNATURE TITLE	SCALE: AS SHOWN DATE: 11/16/2021 DPW FILE NO. 38-47-A-696-0

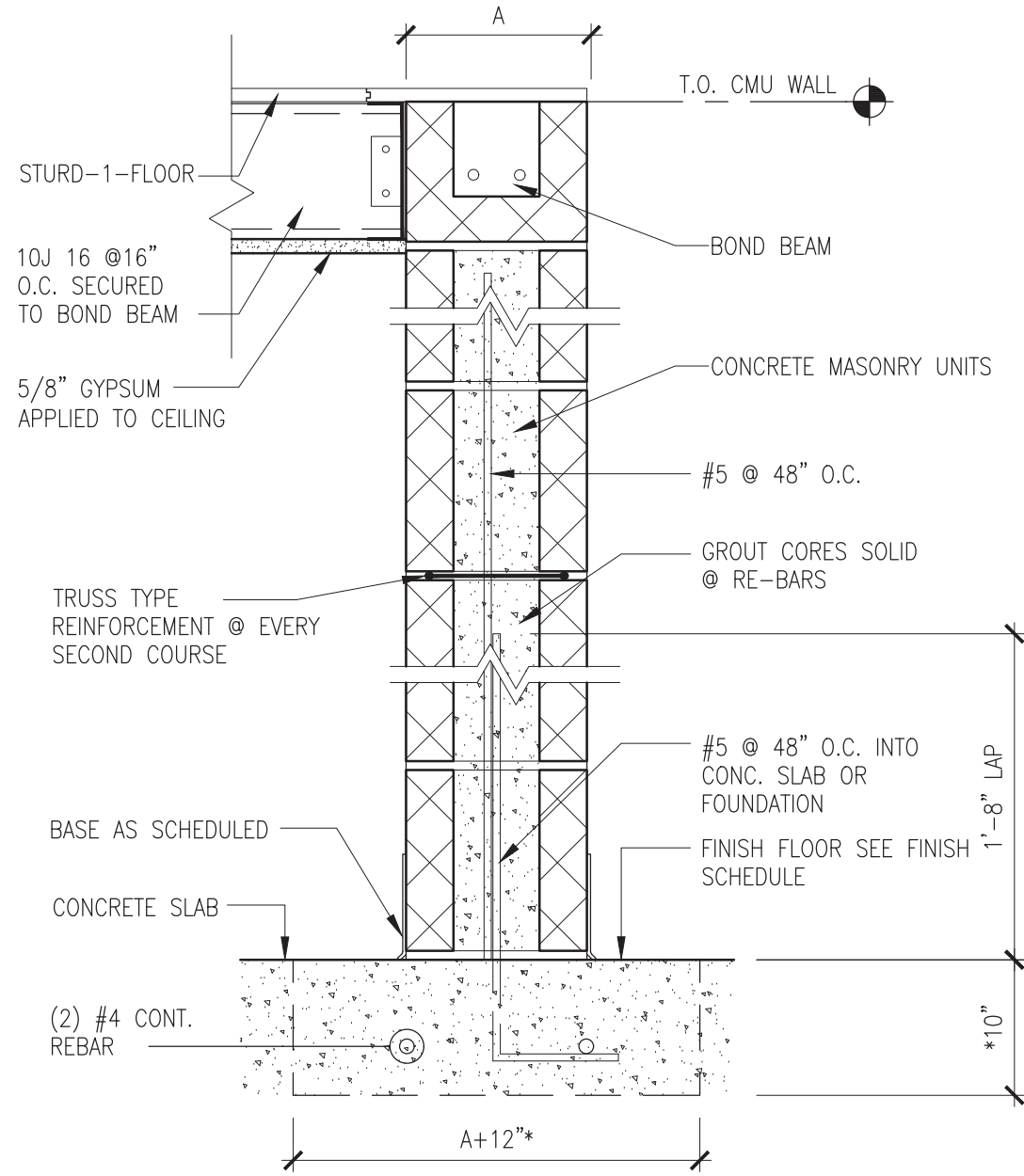


1 TOILET ROOM PLAN
A-300 SCALE: 3/8" = 1'-0"

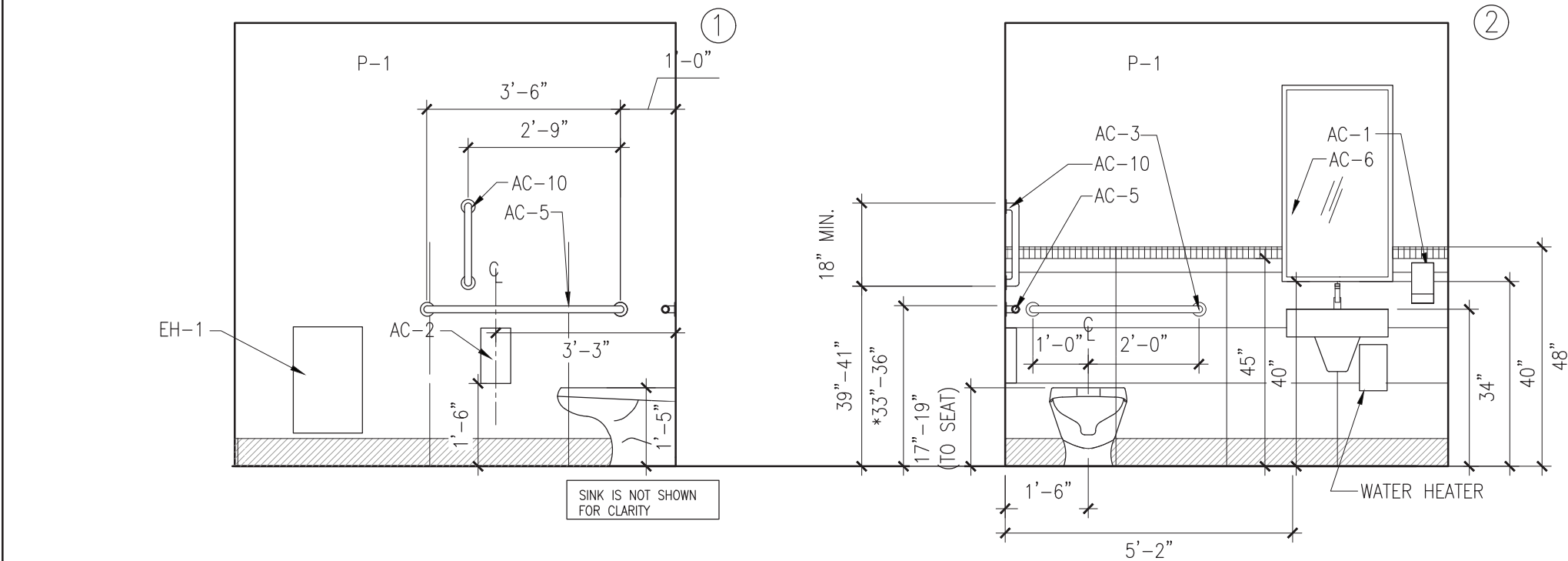
TYP. FIXTURE / ACCESSORY SCHEDULE		
NO.	ACCESSORY/SIZE	MANUF./MODEL #/ #/ FINISH
AC-1	SURFACE MTD VERTICAL LIQUID SOAP DISPENSER	ASI/0347
AC-2	SURFACE MTD. TWIN TOILET TISSUE DISPENSER	ASI/0030
AC-3	36" STAINLESS STEEL GRAB BAR	ASI/3700 - 36"
AC-5	42" STAINLESS STEEL GRAB BAR	ASI/3700- 42"
AC-6	CHANNEL FRAME MIRROR - 24"W x 42"H	ASI/0620-2442
AC-7	HEAVY DUTY CLOTHES HOOK	ASI/8425
AC-8	PT DISPENSER/WASTE RECEPTACLE	ASI/0462-AD-9
AC-10	18" STAINLESS STEEL VERTICAL GRAB BAR	ASL/3700-18"



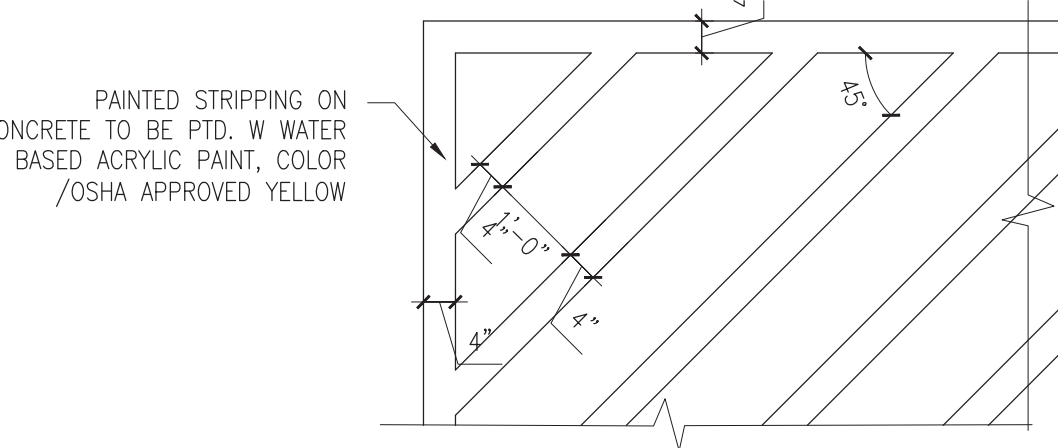
2 BOLLARD DETAIL
A-300 SCALE: 1/2" = 1'-0"



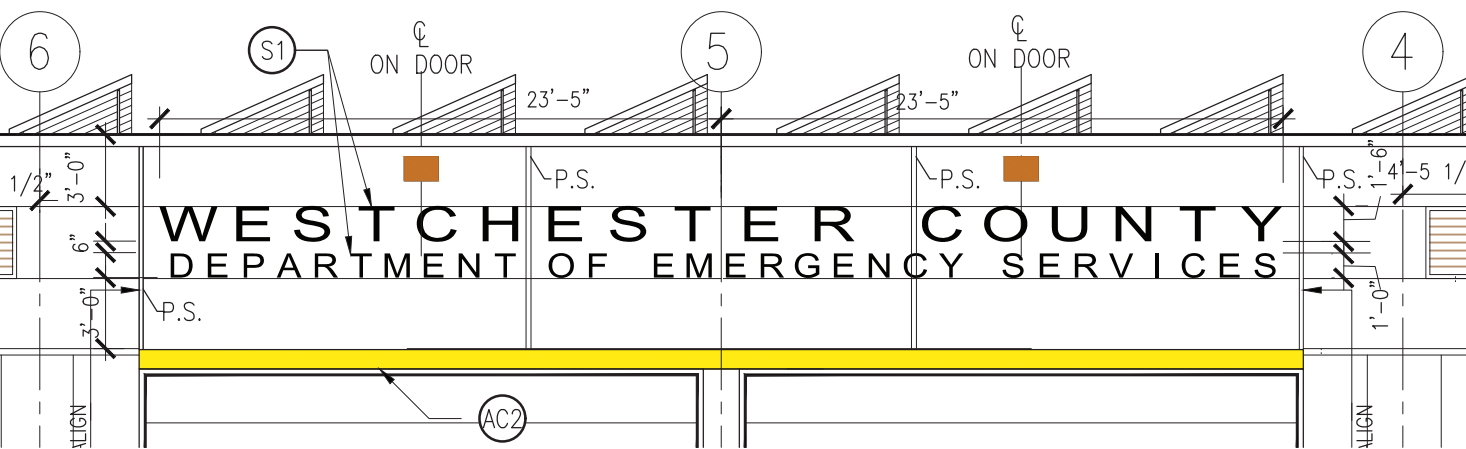
6 M1A PARTITION TYPE
A-300 SCALE: 1 1/2" = 1'-0"



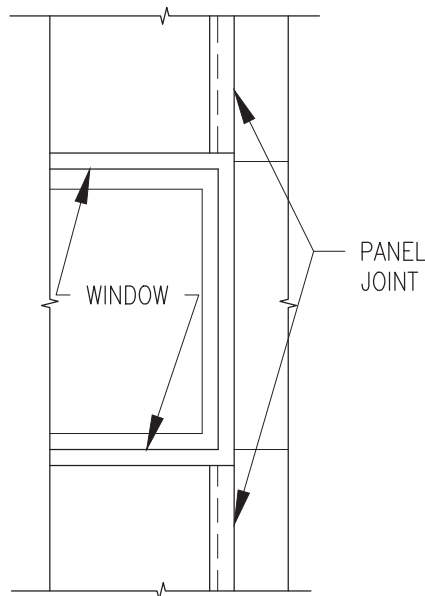
7 ELEVATIONS
A-300 SCALE: 3/8" = 1'-0"



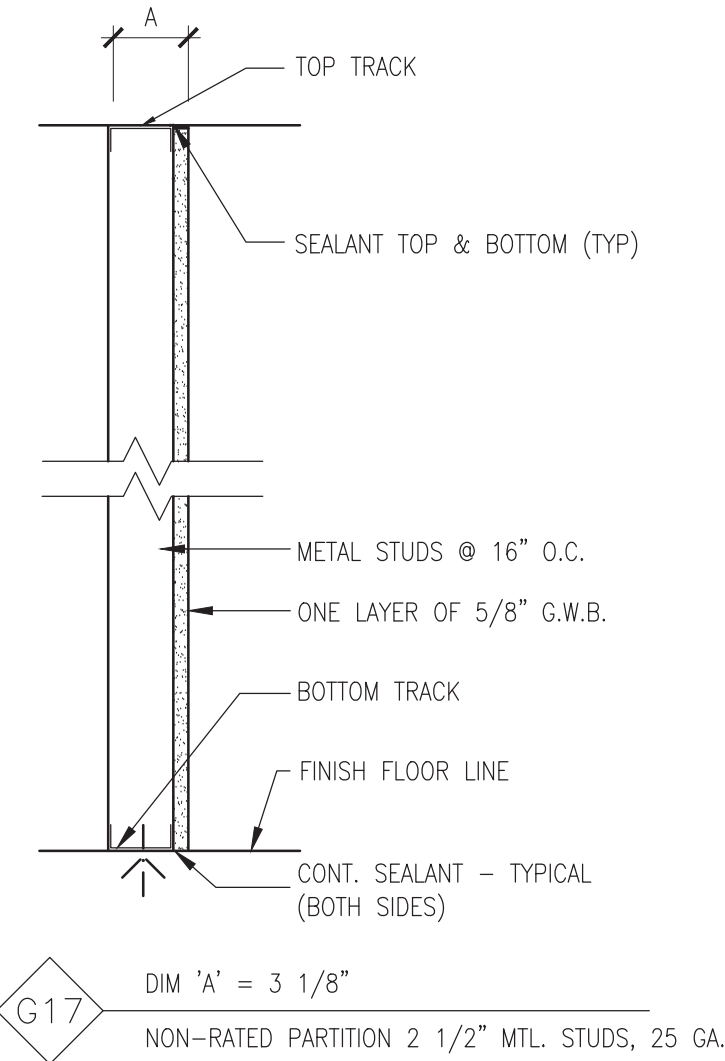
3 PTD.FLOOR PATTERN DETAIL
A-300 SCALE: 1/2" = 1'-0"



4 SIGNAGE DETAIL
A-300 SCALE: 1/8" = 1'-0"



5 PANEL JOINT @ WINDOW
A-300 SCALE: 1/2" = 1'-0"



8 G17 PARTITION TYPE
A-300 SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:

- NOT USED
- NOT USED
- ALL BATHROOM ACCESSORIES TO BE STAINLESS STEEL WITH SATIN FINISH.
- PROVIDE PAINTED WOOD SPACER BEHIND MIRRORS AND OTHER ACCESSORIES ABOVE CERAMIC TILE TO FILL GAP BETWEEN MIRROR FRAME AND G.W.B. COLOR TO MATCH WALL.
- PROVIDE LAVATORY PIPE/VALVE AND TRAP INSULATION PER ADA CODE.
- PROVIDE ADA COMPLIANT DOOR AND HARDWARE
- PROVIDE ADA COMPLIANT TACTILE SIGN CONSISTING OF PICTOGRAM, ROOM NAME AND BRAILLE MOUNTED BETWEEN 48" & 60" HIGH.
- TILE PATTERN SHALL BE CENTERED IN THE SPACE U.O.N.

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CERAMIC TILE LEGEND

	FLOOR TILE	WALL TILE
	CT-1	CT-3
	-	CT-4 BULL NOSE
	-	CT-2 BASE

Seal:



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12 East 49th Street, 11th Flr.
New York, NY 10017
646.849.4110
olace.com

1	12/7/21	CC	DC	ADDENDUM #3					
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION					

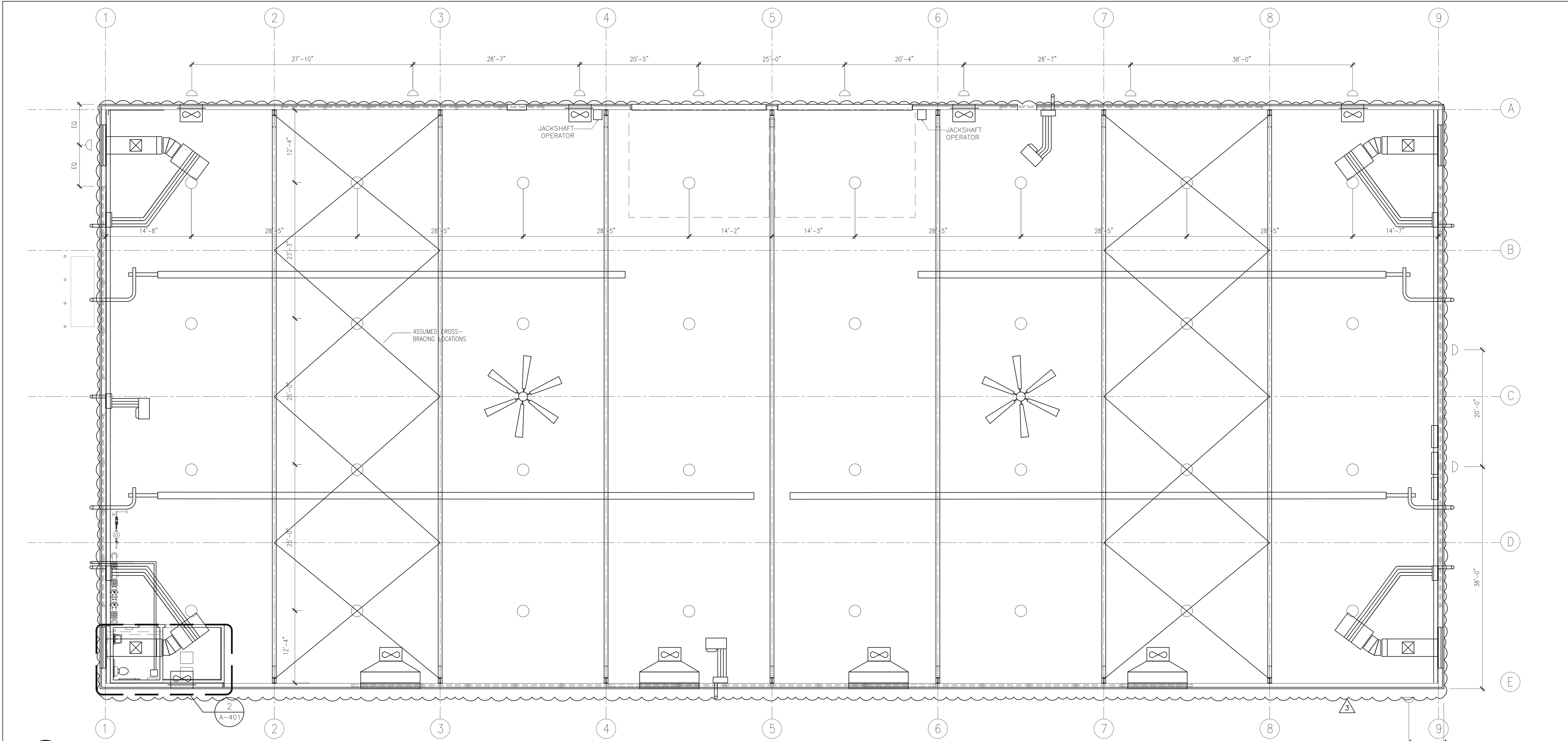
RECORD DRAWING CERTIFICATION

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<input type="checkbox"/> AS BUILT - NO CHANGES	
CONTRACTOR	
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SIGNATURE	SIGNATURE
TITLE	TITLE
DATE	DATE

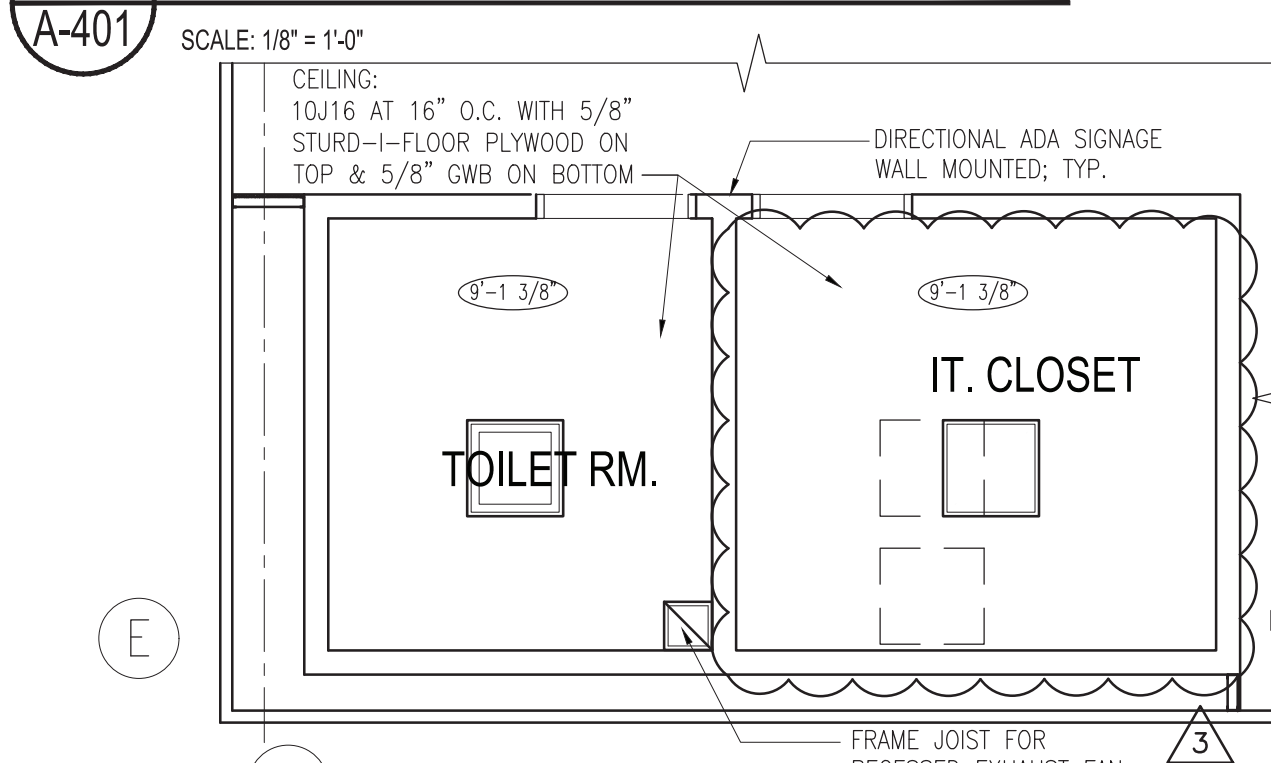
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW EQUIPMENT STORAGE BUILDING
RICHARD A. FLYNN, SR. FIRE TRAINING CENTER
VALHALLA CAMPUS, VALHALLA, NEW YORK
INTERIOR ELEVATIONS & DETAILS I

CONTRACT NUMBER 17-521	SHEET NUMBER A-300
SHEET NO. 16 OF 53	SCALE: AS SHOWN DATE: 11/16/2021
DPW FILE NO. 38-47-A-698-0	REV. NO. 1



1 REFLECTED CEILING PLAN



2 TOILET ROOM & IT CLOSET RCP

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

LEGEND

 CEILING HEIGHT DESIGNATION

GENERAL NOTES:

A. BATHRM LIGHT FIXTURE TO BE CENTER IN ROOMS, COFFERS ETC. U.O.N.



B. SPRINKLER HEAD LOCATIONS NOT SHOWN ON REFLECTED CEILING PLANS. SEE SPRINKLER PLANS FOR LOCATIONS.

EMERGENCY LIGHTING:
25% OF CEILING LIGHTS TO BE CONNECTED TO EMERGENCY GENERATOR

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				12/21/21 CC DC ADDENDUM #3								
				CONTRACTOR		PROJECT COORDINATOR		NEW EQUIPMENT STORAGE BUILDING RICHARD A. FLYNN, SR. FIRE TRAINING CENTER VALHALLA CAMPUS, VALHALLA, NEW YORK REFLECTED CEILING PLAN		SCALE: AS SHOWN DATE: 11/16/2021	REV. NO. 1	
				NAME SIGNATURE TITLE		NAME SIGNATURE TITLE				DPW FILE NO. 38-47-A-699-0		

A. PRIOR TO FILING FIRE PROTECTION DRAWINGS, THE CONTRACTOR SHALL ARRANGE FOR A NEW/CURRENT FLOW TEST IN THE VICINITY OF THE BUILDING.

WATER SUPPLY DATA	
DATE:	7-30-2021
PERFORMED BY:	WESTCHESTER COUNTY
STATIC PRESSURE AT RESIDUAL FIRE HYDRANT:	118 PSI
RESIDUAL PRESSURE AT RESIDUAL FIRE HYDRANT:	90 PSI
MEASURED FLOW AT FLOW FIRE HYDRANT:	780 GPM
NOTES:	

HAZARD CLASSIFICATION ⁽¹⁾	DENSITY ⁽²⁾	PROTECTION AREA PER SPRINKLER ⁽³⁾
LIGHT HAZARD	0.1 GPM / 1500 SQ. FT.	225 SQ. FT. MAX
ORDINARY HAZARD GROUP 1	0.15 GPM / 1500 SQ. FT.	130 SQ. FT. MAX

NOTES:

- 1.) HAZARD CLASSIFICATION, DENSITY AND MAX. PROTECTION AREA SHALL BE IN ACCORDANCE WITH NFPA 13 – 2016 RECOMMENDATIONS UNLESS OTHERWISE NOTED.
- 2.) WHERE REQUIRED BY THE BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION FOR PERMIT, THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.
- 3.) THE MINIMUM PRESSURE AT EACH SPRINKLER HEAD SHALL BE 7 PSI.
- 4.) EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13 – 2016.
- 5.) DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED AREA COVERAGE BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13 SECTION 8.6.2.2.1 (2016).
- 6.) HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE CONNECTION TO THE STREET MAIN.

FLOW VELOCITY IN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND (FPS).

- 7.) DESIGN CRITERIA: GARAGE – ORDINARY HAZARD GROUP 1; TOILET ROOM – LIGHT HAZARD.

THE CLEAN AGENT REFERED TO HEREAFTER IN THESE SPECIFICATIONS SHALL BE HEPTAFLUOROPROPANE [HFC--227ea], AS DEFINED BY NFPA 2001. SOME TRADE NAMES OF HFC--227ea ARE FM--200, AS PRODUCED BY GREAT LAKES CHEMICAL CORP. AND REPRESENTED BY KIDDE-FENWALL, AND FE--227, AS PRODUCED BY DUPONT AND REPRESENTED BY FIKE. REFER TO MSDS FOR ADDITIONAL TRADE NAMES. EQUIVALENT SYSTEM COMPONENTS ARE ACCEPTABLE.

THE SYSTEM SHALL BE BY ONE VENDOR. NO MIXING OF CLEAN AGENTS OR CLEAN AGENT EQUIPMENT IS ACCEPTABLE.

CLEAN AGENT SYSTEM:
SHALL BE INSTALLED AS PER MANUFACTURER'S REQUIREMENTS AND
NFPA-2001 AND CONSIST OF THE FOLLOWING COMPONENTS:

1. CLEAN AGENT STORAGE CONTAINER: SHALL BE UPRIGHT, SIZED AS NOTED ON PLAN. REFER TO MANUFACTURER'S SPECIFICATIONS FOR ALL REQUIRED ACCESSORIES.
2. CLEAN AGENT CONTROL PANEL: SHALL BE AN ADDRESSABLE PANEL WITH A HANDLING POINT FOR ALL HORNS AND STROBES. SIMILAR TO FIKE CHEETAH PANEL PART #10-052-R. THE CONTROL PANEL SHALL ACTIVATE ALL CYLINDERS THROUGH A SINGLE AGENT RELEASE MODULE (ARM). FIKE PART# 10-1632, LOCATED AT EACH CYLINDER. THE ARM SHALL ACTIVATE THE CYLINDER THROUGH A GAS CARTRIDGE ACTUATOR AT EACH CYLINDER. FIKE PART# 70-1651.
3. MANUAL RELEASE STATION/ABORT STATION
 4. CLEAN AGENT DISCHARGE NOZZLE (360°)
 5. DISCHARGE ALARM
 6. ALARM BELL

DETECTORS:

1. PHOTOELECTRIC SMOKE DETECTORS
2. IONIZATION DETECTORS

REQUIRED SIGNAGE:

1. MANUAL RELEASE STATION SIGN SHALL BE: "HFC-227ea EXTINGUISHING SYSTEM RELEASE"
2. ABORT STATION SIGN SHALL BE: "HFC-227ea EXTINGUISHING SYSTEM ABORT/PUSH AND HOLD"
3. FLASHING LIGHT SIGN SHALL BE: "HFC-227ea EXTINGUISHING SYSTEM ALARM / IF ACTIVE EXIT AREA IMMEDIATELY"
4. ENTRANCE SIGN SHALL BE: "HFC-227ea EXTINGUISHING SYSTEM DISCHARGE ALARM / IF ACTIVE DO NOT ENTER AREA"

CLEAN AGENT SIZING CALCS:

ZONE: — IT ROOM

AREA = 79 SF

ROOM VOLUME = 79 SF x 10'-0" CLG. =
AT 7.1% CONCENTRATION OF CLEAN AGENT
VOLUME, VOLUME OF CLEAN AGENT REQUIRED

790 CU. FT. x 0.0347 = 27.5 LBS

CYLINDER #1 = 27.5 LBS OF CLEAN AGENT

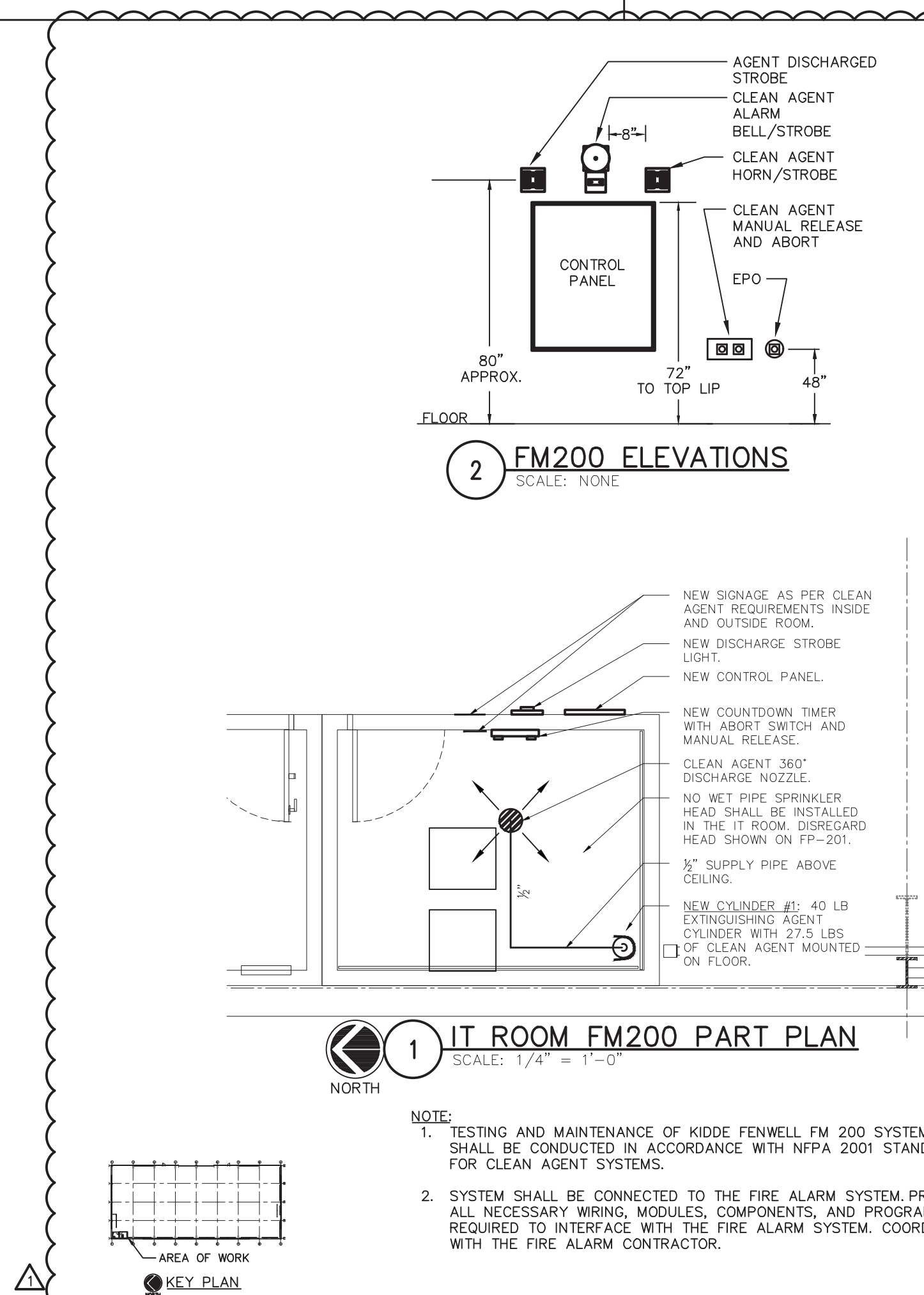
SYMBOL	ABBREVIATION	DESCRIPTION
	EX.	EXISTING TO REMAIN
	NEW	NEW WORK
	DEM.	EXISTING TO BE REMOVED
	—	ELBOW UP
	—	ELBOW DOWN
	—	TEE DOWN
	—	TEE UP
	—	PIPE CAP OR FLUSHING CONNECTION
	—	GATE VALVE
	—	OS&Y GATE VALVE
	—	BUTTERFLY VALVE
	—	CHECK VALVE
	—	UNION
	—	TEMPERATURE GAGE
	—	PRESSURE GAGE
	—	WATER FLOW SWITCH
	—	TAMPER SWITCH
	—	INSPECTORS TEST CONNECTION
	—	FLOW ARROW
	—	SPRINKLER GUARD
	OR	EXISTING SPRINKLER TO REMAIN
	OR	EXISTING SPRINKLER TO BE REMOVED
	—	NEW PENDENT SPRINKLER, CONCEALED OR EXPOSED AS NOTED
	—	NEW UPRIGHT SPRINKLER
	—	SIDEWALL SPRINKLER
	—	POINT OF CONNECTION
	—	POINT OF DISCONNECTION
	—	HYDRAULIC REFERENCE NODE
	—	HYDRAULIC REFERENCE SPRINKLER
	FDC	FIRE DEPARTMENT CONNECTION

SYMBOL	ABBREVIATION	DESCRIPTION
	TS	TAMPER SWITCH
	TYP	TYPICAL
	U.O.N.	UNLESS OTHERWISE NOTED

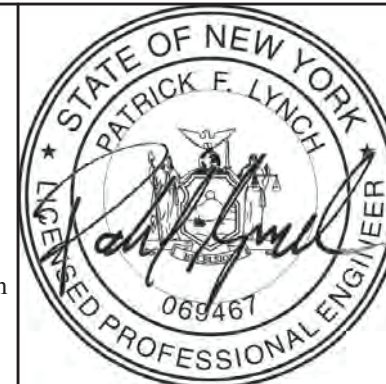
NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

1. THE REVISED SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN EXPERIENCED FIRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-13, THE REQUIREMENTS OF THE LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER, AND ALL GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMISES.
2. COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW FACILITIES, TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. ALL CONFLICTS, OBSTRUCTIONS AND/OR MODIFICATIONS TO THE SPRINKLER DESIGN LAYOUT DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
3. CONTRACTOR SHALL CONDUCT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS.
4. ALTER PIPING AS REQUIRED TO SUIT STRUCTURAL MEMBERS, CEILING HEIGHTS, DUCTWORK, AND LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING WORK.
5. WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION. MINIMUM 1" FOR TWO HEADS, 1-1/4" FOR THREE HEADS, 1-1/2" FOR FIVE HEADS, AND 2" FOR TEN HEADS.
6. PROVIDE TWO 2-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
7. PROVIDE DRAIN VALVES AT MAIN SHUT-OFF VALVES AND LOW POINTS.
8. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH A LISTED FIRE STOPPING ASSEMBLY OR MATERIAL.
9. ALL HOSE CONNECTION AND FIRE DEPARTMENT CONNECTION THREADS SHALL BE TESTED TO VERIFY COMPATIBILITY WITH THREADS USED BY LOCAL FIRE DEPARTMENT, IN ACCORDANCE WITH NFPA-14 (2016) SECTION 11.3.
10. THE CONTRACTOR SHALL MAKE A PROVISION FOR (10) EXTRA SPRINKLERS INCLUDING IMMEDIATE BRANCH PIPING, FITTINGS AND ARM-OVERS. THE CONTRACTOR SHALL COORDINATE WITH FINAL CONFIGURATION OF OPEN AND HUNG CEILINGS, ALL HVAC DUCTWORK AND PIPING AND STRUCTURAL ELEMENTS THROUGHOUT THE AREA OF WORK.
11. THE CONTRACTORS SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES INDICATING ALL DUCTWORK, MECHANICAL EQUIPMENT, PIPING, ELECTRICAL EQUIPMENT, PLUMBING PIPING AND EQUIPMENT, LIGHTS, CONDUITS, DIFFUSERS, GRILLES AND FIRE ALARM DEVICES.

1. FLOOR CONTROL VALVE ASSEMBLY: SHALL BE BASED ON VICTAULIC FIRELOCK COMMERCIAL ZONE RISER MODULE SERIES 747M WITH DRAIN CONNECTION AND SIGHT GLASS. PROVIDE 4" VICTAULIC FIRELOCK BUTTERFLY VALVE AND CHECK VALVE OR EQUAL BEFORE RISER MODULE.
2. FIRE DEPARTMENT CONNECTION: SHALL BE BASED ON POTTER ROEMER 5753 OR EQUAL AT BUILDING FACADE. SIAMSE SHALL BE PLACED BETWEEN 18 INCHES AND 36 INCHES ABOVE THE SIDEWALK. FIRE DEPARTMENT CONNECTION SHALL HAVE TWO (2) 3" INTERNALLY THREADED SWIVEL FITTINGS WITH THREADS CONFORMING TO AHJ STANDARDS WITH 4" OUTLET. PROVIDE AUTOMATIC BALL DRIP AT FDC FACE PLATE.
3. SPRINKLERS: REFER TO DRAWINGS FOR SPRINKLER HEAD SCHEDULE.



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OLA P/N: NDCA0012

1	12/21/2		
REVISION NUMBER	DATE	MADE BY	APP'D BY

		RECORD DRAWING CERTIFICATION	
		<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES	
		CONTRACTOR	PROJECT COORDINATOR
		NAME _____	NAME _____
		SIGNATURE _____	SIGNATURE _____
		TITLE _____ DATE _____	TITLE _____ DATE _____
ADDENDUM 3 REVS			
REVISION			

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

NEW EQUIPMENT STORAGE BUILDING
RICHARD A. FLYNN, SR. FIRE TRAINING CENTER
VALHALLA CAMPUS, VALHALLA, NEW YORK

FIRE PROTECTION SYMBOLS, ABBREVIATIONS, & GENERAL NOTE

CONTRACT NUMBER 17-521	SHEET NUMBER FP-001
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SHEET NO. 30 OF 54

SCALE: AS SHOWN
DATE: 11/16/2021

DPW FILE NO.	REV. NO.
38-47-FP-712-0	1

KEEP PIPING TIGHT TO STEEL.
COORDINATE WITH STEEL AND ALL
OTHER TRADES.

CHECK VALVE WITH AUTOMATIC BALL
DRIp. DRAIN TO GRASSY AREA IN
APPROXIMATE LOCATION SHOWN.

FDC IN ACCORDANCE WITH LOCAL FIRE
DEPARTMENT THREADS. ROUTE 4" TO
SPRINKLER CONTROL ASSEMBLY. FINAL
LOCATION TO BE COORDINATED WITH FD.

SIDEWALL SPRINKLER HEAD
UNDER GARAGE DOOR.
COORDINATE FINAL LOCATION OF
SPRINKLER AND PIPING WITH
GARAGE DOOR. TYPICAL.

HYDRAULICALLY CALCULATED
AREA - ORDINARY HAZARD
GROUP 1. 0.15 GPM / 1950 SF

SPRINKLER BRANCH PIPING
AND UPRIGHT HEADS
PARALLEL TO ROOF SLOPE.
TYPICAL FOR EACH BRANCH.

COORDINATE WITH ELECTRICAL
EQUIPMENT CLEARANCE
REQUIREMENTS. KEEP PIPING
3'-0" FROM THE FRONT OF
ELECTRICAL EQUIPMENT AND
PROVIDE 12" WIDE DRIP PAN
WITH 6" HIGH BORDERS UNDER
LENGTHS OF PIPING WITHIN
3'-0" REQUIREMENT. TYPICAL.

ELECTRICAL EQUIPMENT ALONG
THE WALL. COORDINATE
ACTUALLY LOCATION WITH
SHOP DRAWINGS. TYPICAL.

4" UNDERGROUND FIRE SERVICE
FROM MAIN IN WALKER ROAD
TO 5' OUTSIDE BUILDING BY
SITE CONTRACTOR. REFER TO
SITE UTILITIES PLAN FOR
CONTINUATION.

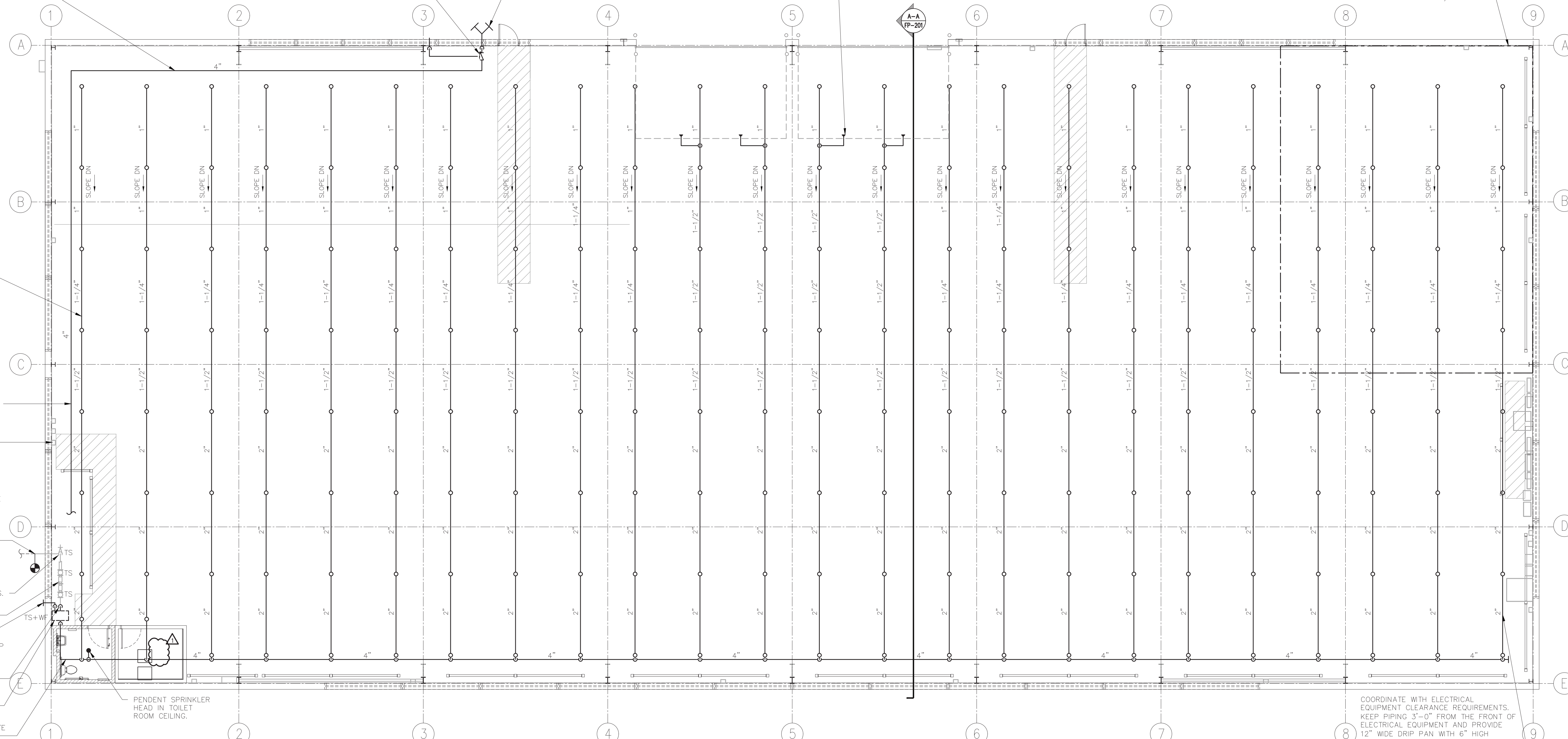
4" FIRE SERVICE UP THROUGH
FLOOR WITH HOUSE CONTROL
VALVE BY PLUMBING
CONTRACTOR. FIRE PROTECTION
CONTRACTOR SHALL FURNISH
AND INSTALL TAMPER SWITCHES.

4" DCDA ON FIRE SERVICE BY
PLUMBING CONTRACTOR.
DRAIN THROUGH WALL.

ALL WORK DOWNSTREAM OF BFP
SHALL BE BY FIRE PROTECTION
CONTRACTOR. ALL WORK
UPSTREAM OF BFP SHALL BE
BY PLUMBING CONTRACTOR

4" SPRINKLER CONTROL
ASSEMBLY AT 7'-6" AFF.
ROUTE DRAIN TO EXTERIOR.

4" SPRINKLER MAIN TIGHT TO
BOTTOM OF STEEL. COORDINATE
WITH STRUCTURAL MEMBERS.



2 FIRE PROTECTION NEW WORK PLAN

SCALE: 1/8" = 1'-0"

- NOTES:
1. FINAL SPRINKLER LAYOUT TO BE COORDINATED WITH ALL STRUCTURAL MEMBERS.
 2. PROVIDE PROTECTIVE CAGES FOR ALL UPRIGHT SPRINKLER HEADS.
 3. PAINT ALL SPRINKLER PIPING VALVES AND FITTINGS RED AND LABEL AS PER SPECIFICATIONS.

4" SPRINKLER PIPING TO
SPRINKLER SYSTEM.
REFER TO FLOOR PLAN

7'-6"

4" FROM FDC.

4" FLOW ASSEMBLY WITH TAMPER SWITCH, WATER FLOW
SWITCH & DRAIN ROUTED TO OUTSIDE. RE: FP-701.

FIRE PROTECTION CONTRACTOR SHALL PROVIDE TAMPER
SWITCH ON ALL OS&Y VALVES ON FIRE SERVICE

4" FIRE SERVICE DCDA BY
PLUMBING CONTRACTOR

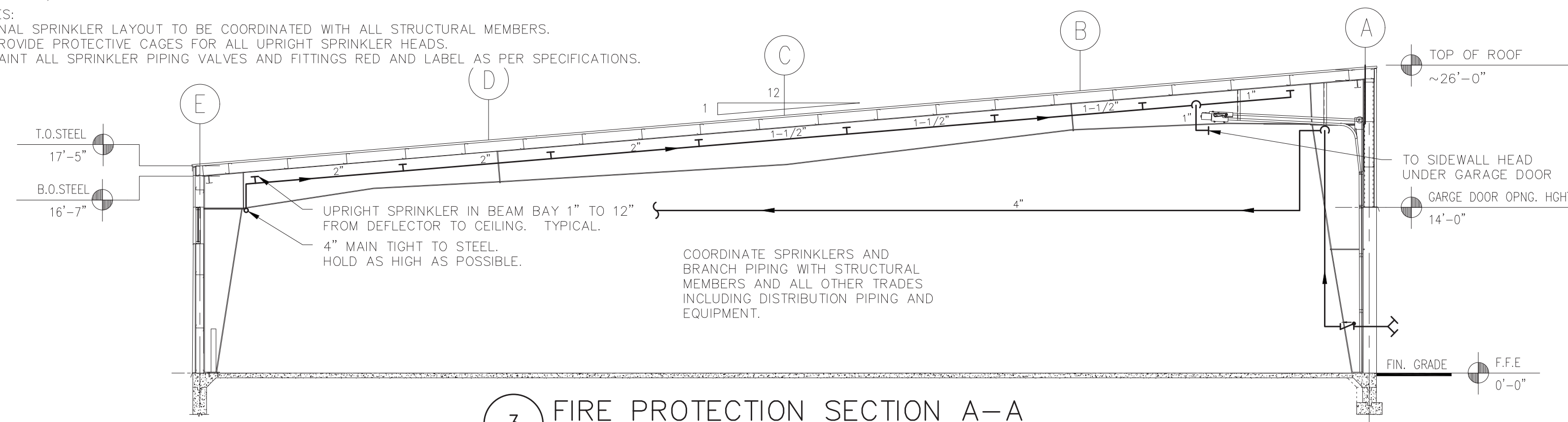
4" FIRE SERVICE HOUSE CONTROL
VALVE WITH TAMPER SWITCH
ROUTE DRAIN TO EXTERIOR TERMINATE
18" ABOVE FINISHED GRADE. GRADE

4" UNDERGROUND FIRE SERVICE FROM MAIN IN
WALKER ROAD TO 5' OUTSIDE BUILDING BY SITE
CONTRACTOR. REFER TO SITE UTILITIES PLAN

ALL WORK DOWNSTREAM
SHALL BE BY THE FIRE
PROTECTION CONTRACTOR.

1 FIRE PROTECTION RISER DIAGRAM

SCALE: NONE

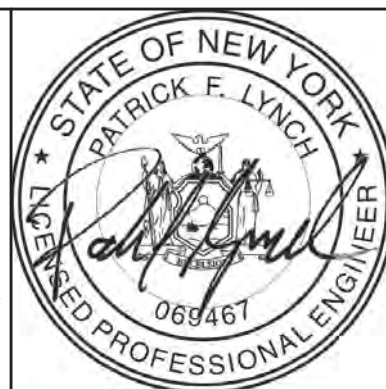


3 FIRE PROTECTION SECTION A-A

SCALE: 1/8" = 1'-0"

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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/21/2			ADDENDUM 3 REVS

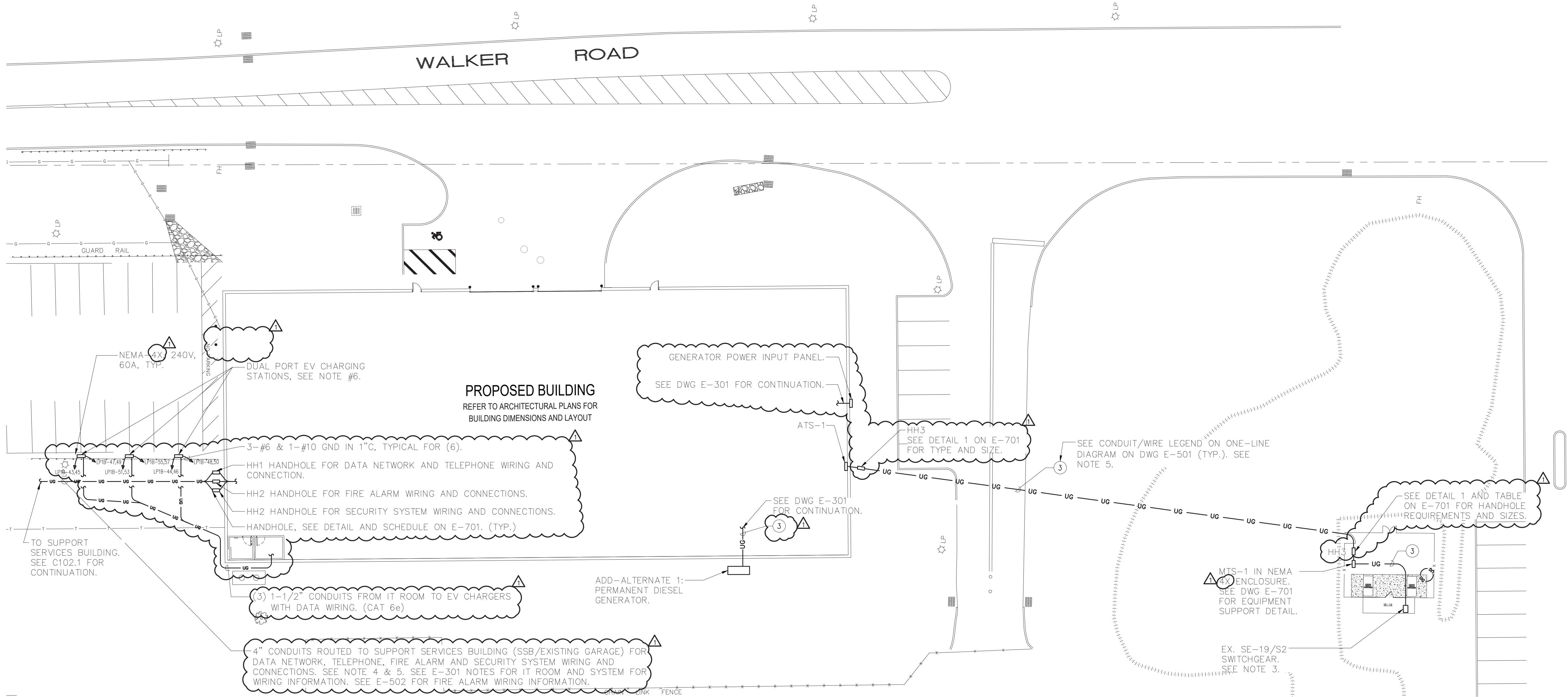
RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME	NAME	SIGNATURE	SIGNATURE
SIGNATURE	SIGNATURE	DATE	DATE
TITLE	TITLE	DATE	DATE

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING	
NEW EQUIPMENT STORAGE BUILDING RICHARD A. FLYNN, SR. FIRE TRAINING CENTER VALHALLA CAMPUS, VALHALLA, NEW YORK FIRE PROTECTION NEW WORK PLAN	

CONTRACT NUMBER 17-521	SHEET NUMBER FP-201
SHEET NO. 31 OF 54	
SCALE: AS SHOWN DATE: 11/16/2021	
DPW FILE NO. 38-47-FP-713-0	REV. NO. 1

SYMBOLS AND ABBREVIATIONS						DEFINITION OF TERMS					
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	7. "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE.' INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS. 8. "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE. 9. THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS: A. "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE. B. "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE. C. "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY <u>NOT</u> COMMENCE. D. "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY <u>NOT</u> COMMENCE.		
	—	CONDUIT AND WIRING		—	FIRE ALARM STROBE 15/75 CD		KW	KILO—WATT			
	—	CONDUIT & WIRING TO BE REMOVED UON		—	FIRE ALARM STROBE 110 CD		MAX	MAXIMUM			
	—	BURIED CONDUIT		—	SMOKE DETECTOR. SH — SMOKE HATCH; SC — PLENUM RATED ABOVE CEILING		MCB	MAIN CIRCUIT BREAKER			
	—	OVERHEAD CONDUCTORS		—			MIN	MINIMUM			
	—	HOMERUN TO PANEL, ARROWS INDICATE # 1P		—	HEAT DETECTOR		MLO	MAIN LUG ONLY			
	—	MULTI—POLE HOMERUN		—	CARBON MONOXIDE DETECTOR		MTS	MANUAL TRANSFER SWITCH			
	—	ELECTRICAL EQUIPMENT AS INDICATED		—	FIRE ALARM TAMPER SWITCH		NIC	NOT IN CONTRACT			
	—	ELECTRICAL EQUIPMENT TO BE REMOVED UON		—	FIRE ALARM WATER FLOW SWITCH		NTS	NOT TO SCALE			
	—	ELECTRIC METER		—	FIRE ALARM WARDEN STATION		P	POLE			
	—	JUNCTION BOX		—	FIRE ALARM ANNUNCIATOR PANEL		PV	PHOTOVOLTAIC			
	—	FUSED DISCONNECT SWITCH		CM	FIRE ALARM CONTROL MODULE		PNL	PANEL			
	—	UNFUSED DISCONNECT SWITCH		MM	FIRE ALARM MONITORING MODULE		PVC	POLY VINYL CHLORIDE			
	—	COMBINATION MOTOR STARTER/FUSED DISC.		FACP	FIRE ALARM CONTROL PANEL		REL.	REMOVE AND RELOCATE			
	—	MOTOR STARTER		BPS	BOOSTER POWER SUPPLY		RGS	RIGID GALVANIZED STEEL			
	—	MOTOR, NUMBER INDICATES HORSE POWER		R	FIRE ALARM RELAY		SCH	SCHEDULE			
	—	BATTERY PACK EMERGENCY LIGHT FIXTURE		EOL	END OF LINE RESISTOR		SPD	SURGE PROTECTION DEVICE			
	—	MOTOR RATED TOGGLE SWITCH		—	CARD READER		SW	SWITCH(ES)			
	—	DUPLEX RECEPTACLE		A	AMPERE(S)		TELCO	TELEPHONE COMPANY			
	—	DOUBLE DUPLEX RECEPTACLE		AC	AIR CONDITIONER		TYP	TYPICAL			
	—	SPECIAL RECEPTACLE		ACC	AIR CONDITIONER CONDENSER		UG	UNDERGROUND			
	—	TELEPHONE OUTLET		AFF	ABOVE FINISHED FLOOR		UON	UNLESS OTHERWISE NOTED			
	—	DATA OUTLET (x — INDICATES # OF JACKS, 2 JACKS PER LOCATION, UON)		AF	AMPERAGE OF FUSE		UV	UNIT VENTILATOR			
				AGL	ABOVE GRADE LEVEL		WP	WEATHERPROOF			
	—	COMBINATION TELEPHONE/DATA OUTLET		AHU	AIR HANDLING UNIT		VIF	VERIFY IN FIELD			
	EOL	END OF LINE RESISTOR		AL	ALUMINIUM		V	VOLT(S)			
	—	CLOCK		ARC	ARC FAULT INTERRUPTER		WG	WIRE GUARD			
	—	PUSHBUTTON		AS	AMPERAGE OF SWITCH		WH	WATER HEATER			
	EPO	EMERGENCY POWER OFF SWITCH		ATS	AUTOMATIC TRANSFER SWITCH	NOTES: 1. ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT. 2. SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.					
	CB	CIRCUIT BREAKER		AWG	AMERICAN WIRE GAUGE						
	—	ENCLOSED CIRCUIT BREAKER		BCW	BARE COPPER WIRE	TYPICAL BRANCH CIRCUIT WIRING LEGEND NOTES: 1. EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED. 2. CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER. 3. MC CABLE MY BE USED IF CONCEALED IN WALL OR CEILING.					
	—	FUSED SWITCH		BLDG	BUILDING						
	GEN	GENERATOR		BMS	BUILDING MANAGEMENT SYSTEM	DEFINITION OF TERMS 1. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "WESTCHESTER COUNTY FIRE TRAINING CENTER" IS INTENDED. 2. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "DCAK MSA" IS INTENDED. 3. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED. 4. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED. 5. "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS. 6. "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.					
	—	GENERATOR RECEPTACLE		C	CONDUIT						
	GND	GROUND AS PER LOCAL CODE		CD	CANDELA	WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING NEW EQUIPMENT STORAGE BUILDING RICHARD A. FLYNN, SR. FIRE TRAINING CENTER VALHALLA CAMPUS, VALHALLA, NEW YORK ELECTRICAL SYMBOLS, ABBREVIATIONS, & GENERAL NOTES					
	—	GROUND BAR		CKT	CIRCUIT						
	—	GROUND ROD		CLG	CEILING						
	—	TRANSFER SWITCH		COL	COLUMN						
	XFMR	TRANSFORMER		CU	COPPER						
	CT	CURRENT TRANSFORMER		DEM.	DEMOLISH AND REMOVE						
	—	UTILITY POLE		DISC	DISCONNECT						
	WM	WATER MAIN		DWG	DRAWING						
	—	CEILING MOUNTED OCCUPANCY SENSOR		EF	EXHAUST FAN						
	—	BOILER BREAK GLASS STATION		EM	EMERGENCY						
	NC	NORMALLY CLOSED CONTACTS		EMT	ELECTRICAL METALLIC TUBING						
	NO	NORMALLY OPEN CONTACTS		EXIST	EXISTING						
	MD	MOTORIZED DAMPER		EX.	EXISTING TO REMAIN						
	SD OR CFSD	SMOKE DAMPER		F	FLOOR						
	UH	UNIT HEATER		GEN	GENERATOR	CONTRACT NUMBER	SHEET NUMBER				
	—	FIRE ALARM MANUAL PULL STATION		GFI	GROUND FAULT INTERRUPTER	17—521	E—001				
	—	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD — STROBE)		HP	HORSEPOWER	SHEET NO. 43 OF 54					
				HVAC	HEATING VENTILATION AIR CONDITIONING	SCALE: AS SHOWN DATE: 11/16/2021					
	—	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD — STROBE)		IG	ISOLATED GROUND	DPW FILE NO.	REV. NO.				
				KVA	KILO—VOLT—AMPERE	38—47—E—725—0	1				

	RCM Technologies USA, Inc. Consulting Engineers 99 Bauer Drive Suite 101 Oakland, NJ 07436 TEL:(201) 249-8700 EMAIL:bruce.goldman@rcmt.com			OLA Consulting Engineers 50 Broadway, Hawthorne, New York 10532 914.747.2800 8 West 38th Street, New York, NY 10018 646.849.4110 olace.com OLA P/N: NDCA0012							RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER	SHEET NUMBER	
										<input type="checkbox"/> AS BUILT — CHANGES AS NOTED <input type="checkbox"/> AS BUILT — NO CHANGES					17—521	E—001	
															SHEET NO. 43	OF 54	
										CONTRACTOR		PROJECT COORDINATOR		NEW EQUIPMENT STORAGE BUILDING			
										NAME		NAME		RICHARD A. FLYNN, SR. FIRE TRAINING CENTER			
					SIGNATURE		SIGNATURE		VALHALLA CAMPUS, VALHALLA, NEW YORK								
					TITLE		TITLE		ELECTRICAL SYMBOLS, ABBREVIATIONS, & GENERAL NOTES								
					DATE		DATE		SCALE: AS SHOWN								
					REVISION		REVISION		DATE: 11/16/2021								
					1		12/21/2		DPW FILE NO.								
					MADE BY		APP'D BY		REV. NO.								
					REVISION		REVISION		38—47—E—725—0								
									1								



NOTES:

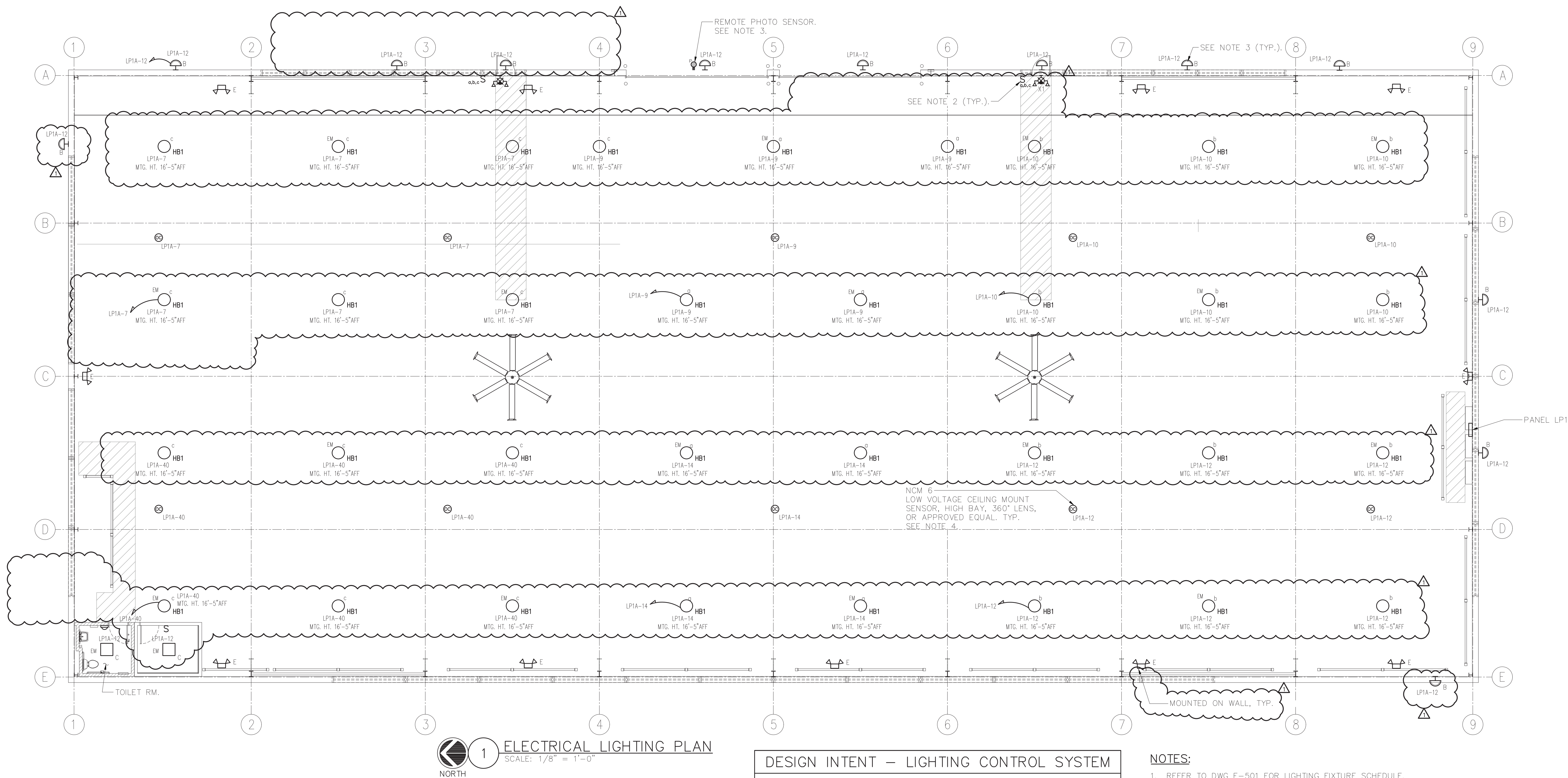
- SEE ONE-LINE DIAGRAM ON DWG E-501.
- FOR ADDITIONAL GENERATOR DETAILS, SEE DWG E-701.
- INTERRUPTION OF EXISTING ELECTRIC SERVICE: DO NOT INTERRUPT ELECTRIC SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY ELECTRIC SERVICE. NOTIFY ARCHITECT, ENGINEER, AND OWNER NO FEWER THAN 20 DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF ELECTRIC SERVICE. INDICATE METHOD OF PROVIDING TEMPORARY ELECTRIC SERVICE. DO NOT PROCEED WITH INTERRUPTION OF ELECTRIC SERVICE WITHOUT OWNER'S WRITTEN PERMISSION. COMPLY WITH NFPA 70E.
- PROVIDE AND INSTALL ALL DATA AND COMMUNICATION WIRES.
- INSTALL ALL UNDERGROUND CONDUITS IN CONCRETE ENCASED DUCT BANK WHERE CROSSING ROADWAY OR SUBJECT TO VEHICULAR TRAFFIC.
- VEHICLE CHARGING STATIONS BASED ON BTCPower DUAL PORT CHARGING STATION MODEL L2P-30-240-D OR APPROVED EQUAL VEHICLE CHARGING STATIONS SHALL BE PROVIDED BY THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE TO PICK UP THE CHARGERS FROM THE COUNTY AND BRING THEM TO THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE CHARGERS AND MAKE OPERATIONAL PER MANUFACTURER'S REQUIREMENTS.

1 ELECTRICAL SITE PLAN
SCALE: 1"=20'-0"
NORTH

TRENCHING NOTES:

- CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING.
- ALL EXCAVATION IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.
- ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.
- ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962 (NY STATE).

<div><div><div>DCAK · MSA</div><div>ARCHITECTURE AND ENGINEERING</div></div><div>53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com Email: info@DCAK-MSA.com Tel 845-353-1300 Fax 845-353-1614</div></div>	<div>RCM Technologies USA, Inc. Consulting Engineers 99 Bauer Drive Suite 101 Oakland, NJ 07436 TEL:(201) 249-8700 EMAIL:bruce.goldman@rcmt.com</div>	<div><div>STATE OF NEW YORK PATRICK F. LYNCH 069467 LICENSED PROFESSIONAL ENGINEER</div></div>	<div><div>OLA Consulting Engineers 50 Broadway, Hawthorne, New York 10532 914.747.2800 8 West 38th Street, New York, NY 10018 646.849.4110 olace.com OLA P/N: NDCA0012</div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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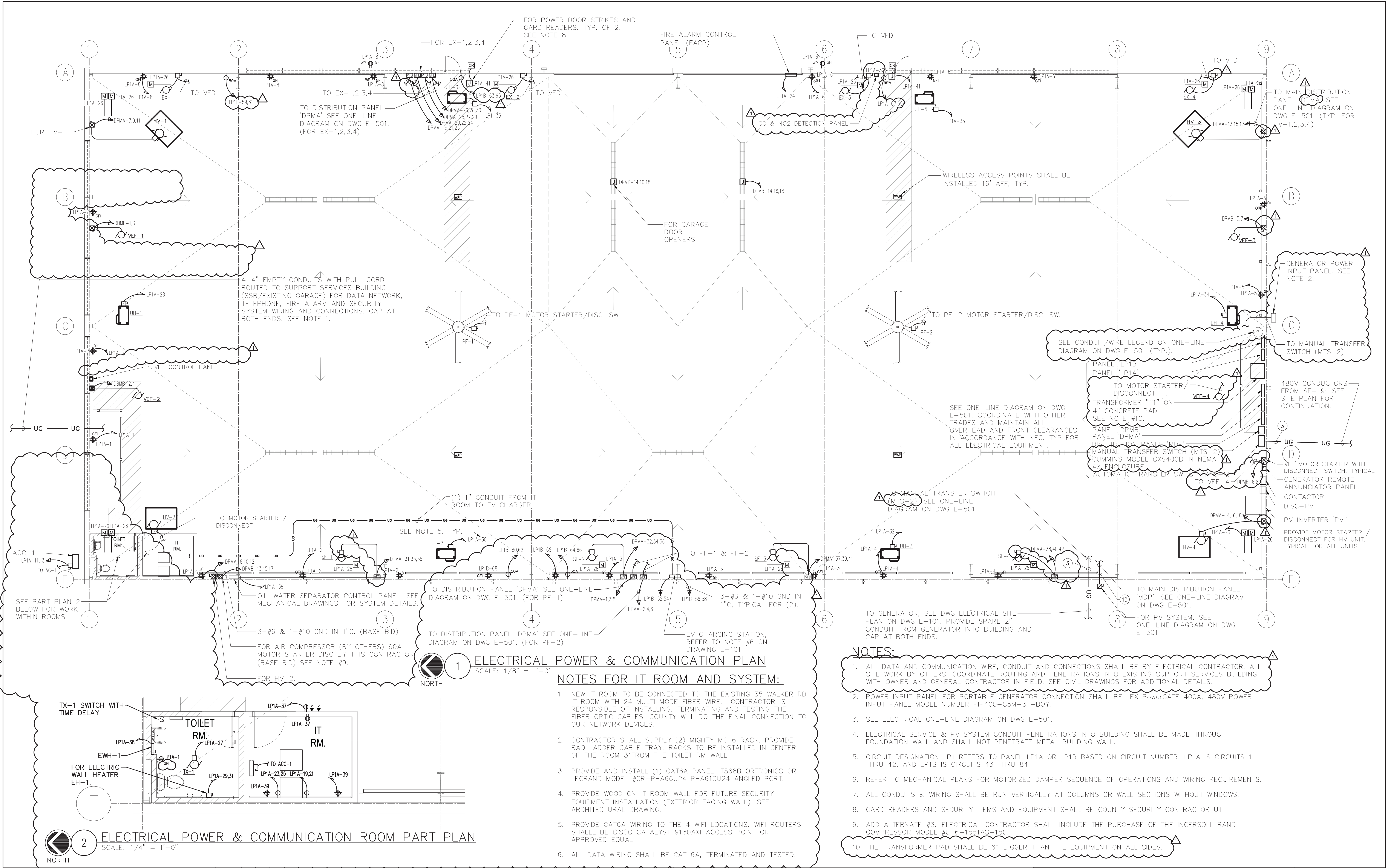
1 ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"
NORTH

DESIGN INTENT – LIGHTING CONTROL SYSTEM

1. LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY ACUITY CONTROLS (ANDREW GROSS (212) 462-0088 x5210) OR APPROVED EQUAL.
2. LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.
4. ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.

NOTES:

1. REFER TO DWG E-501 FOR LIGHTING FIXTURE SCHEDULE.
2. LOW VOLTAGE LIGHTING CONTROL SWITCH ON WALL. nLIGHT nPODM 4 CHANNEL ON/OFF, OR APPROVED EQUAL. CHANNEL 1 SHALL TURN ON/OFF ALL LIGHTS IN THE BUILDING, CHANNELS 2, 3, & 4 SHALL TURN ON/OFF ZONES a, b, c INDIVIDUALLY.
3. EXTERIOR LIGHTING FIXTURES SHALL BE CONTROLLED VIA REMOTE PHOTOCELL AND TIMER.
4. ALL INTERIOR 'HB' FIXTURES SHALL TURN ON WITH ACTIVATION OF ANY ONE SENSOR, AND REMAIN ON FOR THE PROGRAMMED DURATION OR AS LONG AS MOTION IS DETECTED. CONFIRM PROGRAMMED DURATION WITH COUNTY.
5. COORDINATE EXACT FIXTURE LOCATIONS PER ARCHITECTS CEILING PLAN.



NOTES:

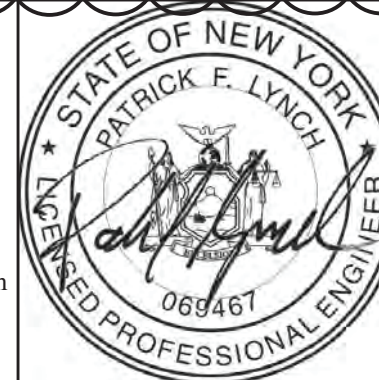
- ALL DATA AND COMMUNICATION WIRE, CONDUIT AND CONNECTIONS SHALL BE BY ELECTRICAL CONTRACTOR. ALL SITE WORK BY OTHERS. COORDINATE ROUTING AND PENETRATIONS INTO EXISTING SUPPORT SERVICES BUILDING WITH OWNER AND GENERAL CONTRACTOR IN FIELD. SEE CIVIL DRAWINGS FOR ADDITIONAL DETAILS.
- POWER INPUT PANEL FOR PORTABLE GENERATOR CONNECTION SHALL BE LEX PowerGate 400A, 480V POWER INPUT PANEL MODEL NUMBER PIP400-C5M-3F-80Y.
- SEE ELECTRICAL ONE-LINE DIAGRAM ON DWG E-501.
- ELECTRICAL SERVICE & PV SYSTEM CONDUIT PENETRATIONS INTO BUILDING SHALL BE MADE THROUGH FOUNDATION WALL AND SHALL NOT PENETRATE METAL BUILDING WALL.
- CIRCUIT DESIGNATION LP1 REFERS TO PANEL LP1A OR LP1B BASED ON CIRCUIT NUMBER. LP1A IS CIRCUITS 1 THRU 42, AND LP1B IS CIRCUITS 43 THRU 84.
- REFER TO MECHANICAL PLANS FOR MOTORIZED DAMPER SEQUENCE OF OPERATIONS AND WIRING REQUIREMENTS.
- ALL CONDUITS & WIRING SHALL BE RUN VERTICALLY AT COLUMNS OR WALL SECTIONS WITHOUT WINDOWS.
- CARD READERS AND SECURITY ITEMS AND EQUIPMENT SHALL BE COUNTY SECURITY CONTRACTOR UTI.
- ADD ALTERNATE #3: ELECTRICAL CONTRACTOR SHALL INCLUDE THE PURCHASE OF THE INGERSOLL RAND COMPRESSOR MODEL #UP6-15-CAS-150.
- THE TRANSFORMER PAD SHALL BE 6" BIGGER THAN THE EQUIPMENT ON ALL SIDES.

NOTES FOR IT ROOM AND SYSTEM:

- NEW IT ROOM TO BE CONNECTED TO THE EXISTING 35 WALKER RD IT ROOM WITH 24 MULTI MODE FIBER WIRE. CONTRACTOR IS RESPONSIBLE OF INSTALLING, TERMINATING AND TESTING THE FIBER OPTIC CABLES. COUNTY WILL DO THE FINAL CONNECTION TO OUR NETWORK DEVICES.
- CONTRACTOR SHALL SUPPLY (2) MIGHTY MO 6 RACK. PROVIDE RAQ LADDER CABLE TRAY. RACKS TO BE INSTALLED IN CENTER OF THE ROOM 3' FROM THE TOILET RM WALL.
- PROVIDE AND INSTALL (1) CAT6A PANEL, T568B ORTRONICS OR LEGRAND MODEL #OR-PHA66U24 PHA610U24 ANGLED PORT.
- PROVIDE WOOD ON IT ROOM WALL FOR FUTURE SECURITY EQUIPMENT INSTALLATION (EXTERIOR FACING WALL). SEE ARCHITECTURAL DRAWING.
- PROVIDE CAT6A WIRING TO THE 4 WIFI LOCATIONS. WIFI ROUTERS SHALL BE CISCO CATALYST 9130AXI ACCESS POINT OR APPROVED EQUAL.
- ALL DATA WIRING SHALL BE CAT 6A, TERMINATED AND TESTED.

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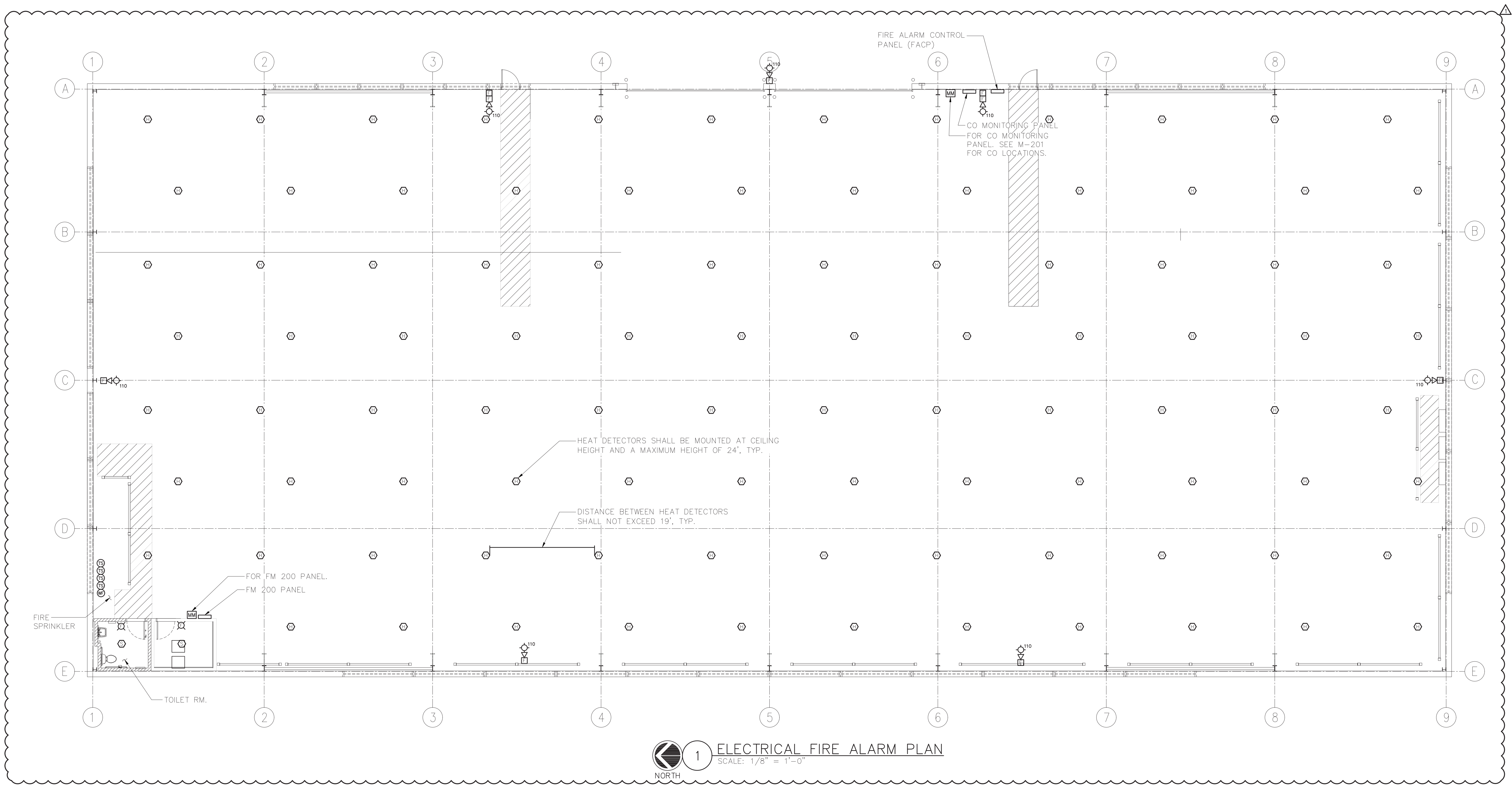
OLA Consulting Engineers
50 Broadway, Hawthorne,
New York 10532
914.747.2800
8 West 38th Street, New
York, NY 10018
646.849.4110
olac.com
OLA P/N: NDCA0012

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
1	12/21/2			ADDENDUM 3 REVS

RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES			
CONTRACTOR		PROJECT COORDINATOR	
NAME	NAME	SIGNATURE	SIGNATURE
SIGNATURE	SIGNATURE	DATE	DATE
TITLE	TITLE	DATE	DATE

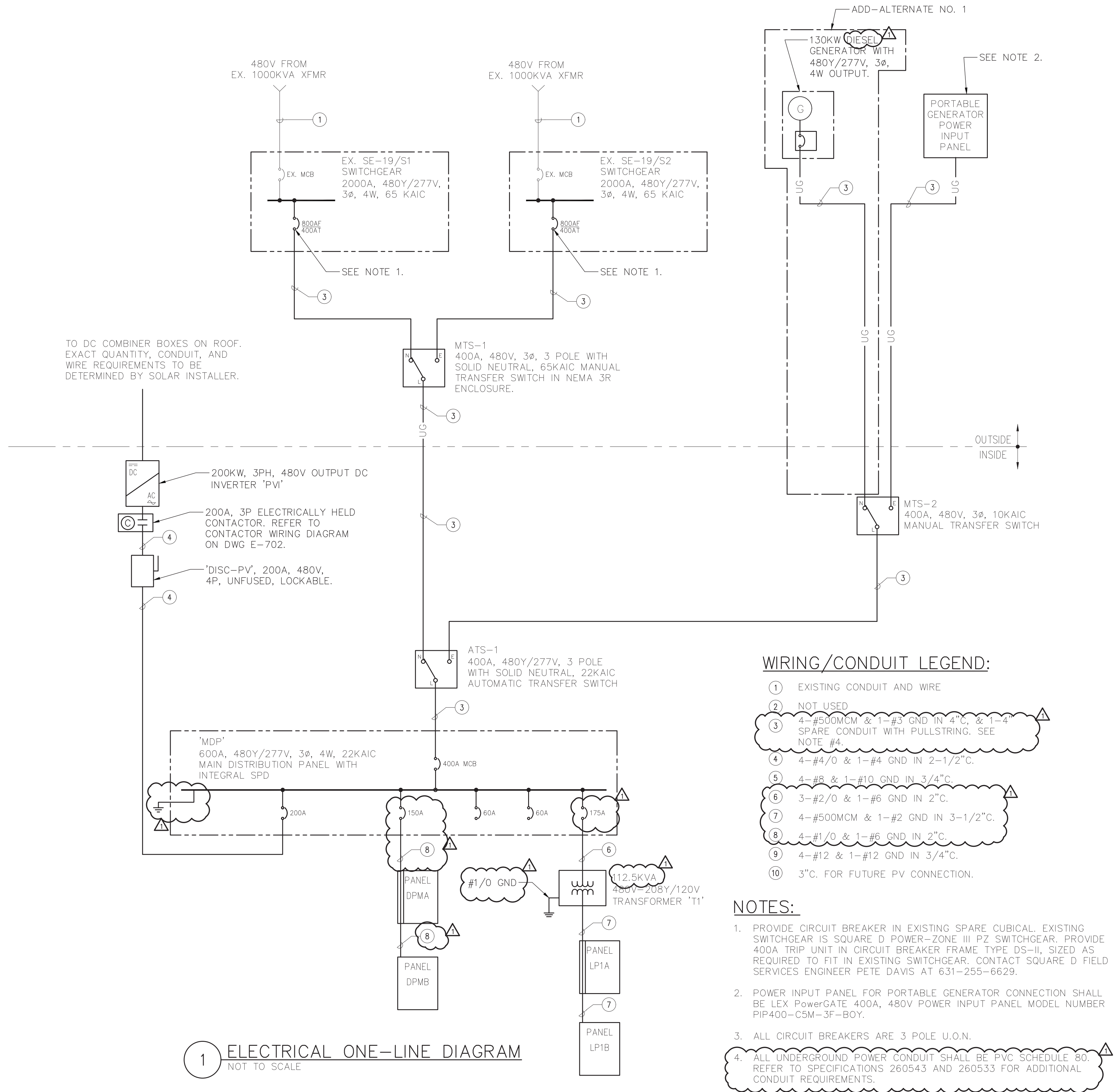
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING
NEW EQUIPMENT STORAGE BUILDING
RICHARD A. FLYNN, SR. FIRE TRAINING CENTER
VALHALLA CAMPUS, VALHALLA, NEW YORK
ELECTRICAL POWER & COMMUNICATION PLAN

CONTRACT NUMBER	SHEET NUMBER
17-521	E-301
SHEET NO.46 OF 54	
SCALE: AS SHOWN DATE: 11/16/2021	
DPW FILE NO.	REV. NO.
38-47-E-728-0	1





1 ELECTRICAL FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

DCAK · MSA ARCHITECTURE AND ENGINEERING 53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com Email: info@DCAK-MSA.com Tel 845-353-1300 Fax 845-353-1614		RCM Technologies USA, Inc. Consulting Engineers 99 Bauer Drive Suite 101 Oakland, NJ 07436 TEL:(201) 249-8700 EMAIL:bruce.goldman@rcmt.com		 OLA Consulting Engineers 50 Broadway, Hawthorne, New York 10532 914.747.2800 8 West 38th Street, New York, NY 10018 646.849.4110 olace.com OLA P/N: NDCA0012	REVISION 1 12/21/2 MADE BY APP'D BY ADDENDUM 3 REVS	RECORD DRAWING CERTIFICATION <input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES CONTRACTOR NAME SIGNATURE TITLE PROJECT COORDINATOR NAME SIGNATURE TITLE	WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING NEW EQUIPMENT STORAGE BUILDING RICHARD A. FLYNN, SR. FIRE TRAINING CENTER VALHALLA CAMPUS, VALHALLA, NEW YORK FIRE ALARM PLAN	CONTRACT NUMBER 17-521 SHEET NUMBER E-401 SHEET NO.48 OF 54 SCALE: AS SHOWN DATE: 11/16/2021 DPW FILE NO. 38-47-E-730-0 REV. NO. 1
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<div>DCAK · MSA</div> <div>ARCHITECTURE AND ENGINEERING</div> <div>53 HUDSON AVENUE</div> <div>NYACK, NEW YORK 10960</div> <div>www.DCAK-MSA.com</div> <div>Email: info@DCAK-MSA.com</div> <div>Tel 845-353-1300 Fax 845-353-1614</div>	<div>RCM Technologies USA, Inc.</div> <div>Consulting Engineers</div> <div>99 Bauer Drive</div> <div>Suite 101</div> <div>Oakland, NJ 07436</div> <div>TEL: (201) 249-8700</div> <div>EMAIL: bruce.goldman@rcmt.com</div>	<div></div> <div></div>	<div>OLA Consulting Engineers</div> <div>50 Broadway, Hawthorne,</div> <div>New York 10532</div> <div>914.747.2800</div> <div>8 West 38th Street, New</div> <div>York, NY 10018</div> <div>646.849.4110</div> <div>olace.com</div> <div>OLA P/N: NDCA0012</div>						RECORD DRAWING CERTIFICATION		WESTCHESTER COUNTY, NEW YORK		CONTRACT	SHEET		
										<input type="checkbox"/> AS BUILT - CHANGES AS NOTED			DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION		NUMBER	NUMBER
										<input type="checkbox"/> AS BUILT - NO CHANGES			DIVISION OF ENGINEERING		17-521	E-502
															SHEET NO. 50 OF 54	
									CONTRACTOR		PROJECT COORDINATOR		NEW EQUIPMENT STORAGE BUILDING		SCALE: AS SHOWN	
									NAME _____		NAME _____		RICHARD A. FLYNN, SR. FIRE TRAINING CENTER		DATE: 11/16/2021	
									SIGNATURE _____		SIGNATURE _____		VALHALLA CAMPUS, VALHALLA, NEW YORK		DPW FILE NO.	
									TITLE _____ DATE _____		TITLE _____ DATE _____		FIRE ALARM RISER DIAGRAM		38-47-E-732-0	
									1		12/21/2		MADE BY		APP'D BY	
									REVISION NUMBER		REVISION				REV. NO.	

LIGHTING FIXTURE SCHEDULE

FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	INPUT WATTS	MOUNTING	REMARKS
B	RAB LIGHTING	SLIM37N/BL	LED	120	37	SURFACE	LED WALLPACKS OUTDOOR LIGHTING FIXTURE.
C	RAB LIGHTING	EZPANHE2'X2'23W/E2	LED	120	24.2	RECESSED	2'X2' RECESSED FIXTURE WITH INTEGRAL BATTERY BALLAST. FIXTURE TYPE BY ARCHITECT.
E	EATON SURE-LITES	SELD-D-W 60-SD-HAZ	LED (300 LUMEN)	120	5	SURFACE	TWO HEADS EMERGENCY LIGHTING
HB1	HOLOPHANE	PHZ-18000LM-MD -XXX-50K-70CR I-XX-XX	LED 18000LM 5000K	120	130	PENDANT	ROUND LED LIGHTING FIXTURE. PROVIDE INTEGRAL BATTERY BALLAST WHERE DENOTED 'EM'
X1	EATON SURE-LITES	APC7RSQ	LED	120	3.7	SURFACE	EXIT LIGHTING WITH TWO HEADS EMERGENCY LIGHTING

NOTES:
1. VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
2. ALL BALLASTS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
3. LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BATTERY BACK-UP BALLAST INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE BATTERY PACK AND LAMPS SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
4. ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.
5. IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

LP1A SECTION 1 PANEL SCHEDULE

MAIN RATING: 400A MAIN CB: 350A KAIC RATING: 44KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	RECEPTACLE	20	1	1	20	RECEPTACLE	2
3	RECEPTACLE	20	1	1	20	RECEPTACLE	4
5	RECEPTACLE	20	1	1	20	RECEPTACLE	6
7	LIGHTING	20	1	1	20	LIGHTING	8
9	LIGHTING	20	1	1	20	LIGHTING	10
11	ACC-1 & AC-1	20LK	2	1	20	LIGHTING	12
13				1	20	LIGHTING	14
15	SPARE	15	2	1	20	LIGHTING	16
17				1	20	GENERATOR	18
19	DATA RACK	30	2	1	20	GENERATOR	20
21				1	20	GENERATOR	22
23	DATA RACK	30	2	1	20	FIRE ALARM CONTROL PANEL (FACP)	24
25				1	20	MOTORIZED DAMPERS	26
27	TX-1	20	1	1	20	UH-1	28
29	EH-1	20	2	1	20	UH-2	30
31				1	20	UH-3	32
33	UH-5	20	1	1	20	UH-4	34
35	UH-6	20	1	1	20	OWS CONTROL PANEL & CO DETECTION PANEL	36
37	IT ROOM RECEPTACLES	20	1	1	40	FWH-1	38
39	IT ROOM RECEPTACLES	20	1	1	20	LIGHTING	40
41	POWER DOOR STRIKES & CARD READERS	20	1	1	20	FACP	42

FEED THROUGH LUGS TO LP1B

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; AF - ARC FAULT TYPE C.B.;
ST - SHUNT TRIP C.B.

NOTES:
-

DPMA SECTION 1 PANEL SCHEDULE

MAIN RATING: 225A MAIN CB: 150A KAIC RATING: 22KAIC
VOLTAGE: 480Y/277V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1							2
3	PF-1	15	3	3	15	PF-2	4
5							6
7							8
9	HV-1	20	3	3	20	HV-2	10
11							12
13							14
15	HV-3	20	3	3	20	HV-4	16
17							18
19							20
21	EX-1	20	3	3	20	EX-2	22
23							24
25							26
27	EX-3	20	3	3	20	EX-4	28
29							30
31							32
33	SF-1	20	3	3	20	SF-2	34
35							36
37							38
39	SF-3	20	3	3	20	SF-4	40
41							42

FEED THROUGH LUGS TO DPMB

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; AF - ARC FAULT TYPE C.B.;
ST - SHUNT TRIP C.B.

NOTES:
-

LP1B SECTION 2 PANEL SCHEDULE

MAIN RATING: 400A MAIN CB: 350A KAIC RATING: 44KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
43	208V VEHICLE CHARGING RECEPTACLE	40LK	2	2	40LK	208V VEHICLE CHARGING RECEPTACLE	44
45							46
47	208V VEHICLE CHARGING RECEPTACLE	40LK	2	2	40LK	208V VEHICLE CHARGING RECEPTACLE	48
49							50
51	208V VEHICLE CHARGING RECEPTACLE	40LK	2	2	40LK	208V VEHICLE CHARGING RECEPTACLE	52
53							54
55	208V VEHICLE CHARGING RECEPTACLE	40LK	2	2	40LK	208V VEHICLE CHARGING RECEPTACLE	56
57							58
59	RECEPTACLE	50LK	2	2	50LK	RECEPTACLE	60
61							62
63	RECEPTACLE	50LK	2	2	50LK	RECEPTACLE	64
65							66
67	RECEPTACLE	50LK	2	1	20	RECEPTACLE	68
69					20	SPACE	70
71	SPARE	20	1	1	20	SPACE	72
73	SPARE	20	1	1	20	SPACE	74
75	SPARE	20	1	1	20	SPACE	76
77	SPARE	20	1	1	20	SPACE	78
79	SPARE	20	1	1	20	SPACE	80
81	SPARE	20	1	1	20	SPACE	82
83	SPARE	20	1	1	20	SPACE	84

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; AF - ARC FAULT TYPE C.B.;
ST - SHUNT TRIP C.B.

NOTES:
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DPMB SECTION 2 PANEL SCHEDULE

MAIN RATING: 225A MAIN CB: 150A KAIC RATING: 22KAIC
VOLTAGE: 480Y/277V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	VEHICLE EXHAUST FAN 1	20	2	2	20	VEHICLE EXHAUST FAN 2	2
3							4
5	VEHICLE EXHAUST FAN 3	20	2	2	20	VEHICLE EXHAUST FAN 4	6
7							8
9	SPARE	20	2	2	20	SPARE	10
11							12
13							14
15	AIR COMPRESSOR	50LK	3	3	20	GARAGE DOOR OPENERS	16
17							18
19							20
21	SPARE	20	3	3	20	SPARE	22
23							24
25							26
27	SPARE	20	3	3	20	SPARE	28
29							30
31							32
33	SPARE	20	3	3	20	SPARE	34
35							36
37							38
39	SPARE	20	3	3	20	SPARE	40
41							42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; AF - ARC FAULT TYPE C.B.;
ST - SHUNT TRIP C.B.

NOTES:
-

DCAK - MSA
ARCHITECTURE AND ENGINEERING
53 HUDSON AVENUE
NYACK, NEW YORK 10960
www.DCAK-MSA.com
Email: info@DCAK-MSA.com
Tel 845-353-1300 Fax 845-353-1614

RCM Technologies USA, Inc.
Consulting Engineers
99 Bauer Drive
Suite 101
Oakland, NJ 07436
TEL:(201) 249-8700
EMAIL:bruce.goldman@rcmt.com

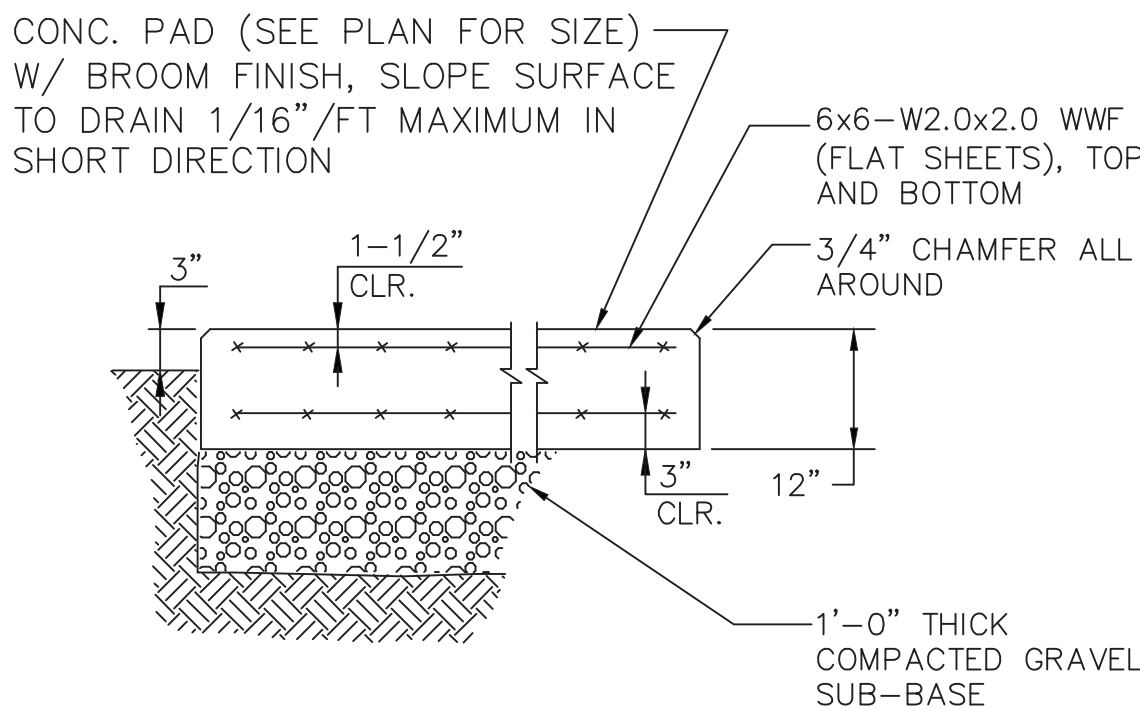
OLA Consulting Engineers
50 Broadway, Hawthorne,
New York 10532
914.747.2800
8 West, 38th Street, New
York, NY 10018
646.849.4110
olace.com
OLA P/N: NDCA0012

1	12/21/2	MADE BY	APP'D BY	ADDENDUM 3 REVS	
REVISION NUMBER	DATE			REVISION	

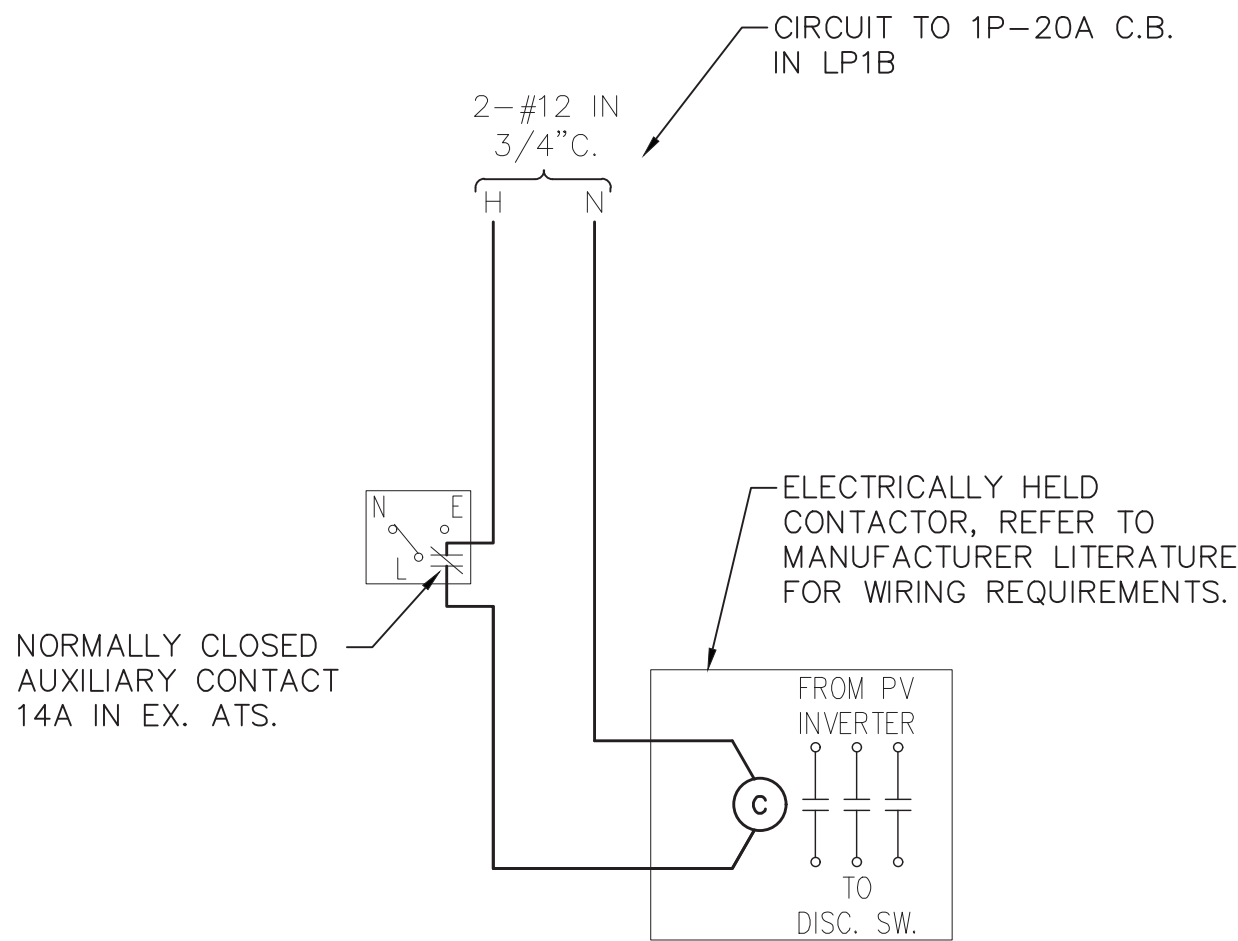
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CONTRACTOR	PROJECT COORDINATOR
NAME	NAME
SIGNATURE	SIGNATURE
TITLE	TITLE

WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING	
NEW EQUIPMENT STORAGE BUILDING RICHARD A. FLYNN, SR. FIRE TRAINING CENTER VALHALLA CAMPUS, VALHALLA, NEW YORK ELECTRICAL SCHEDULES	

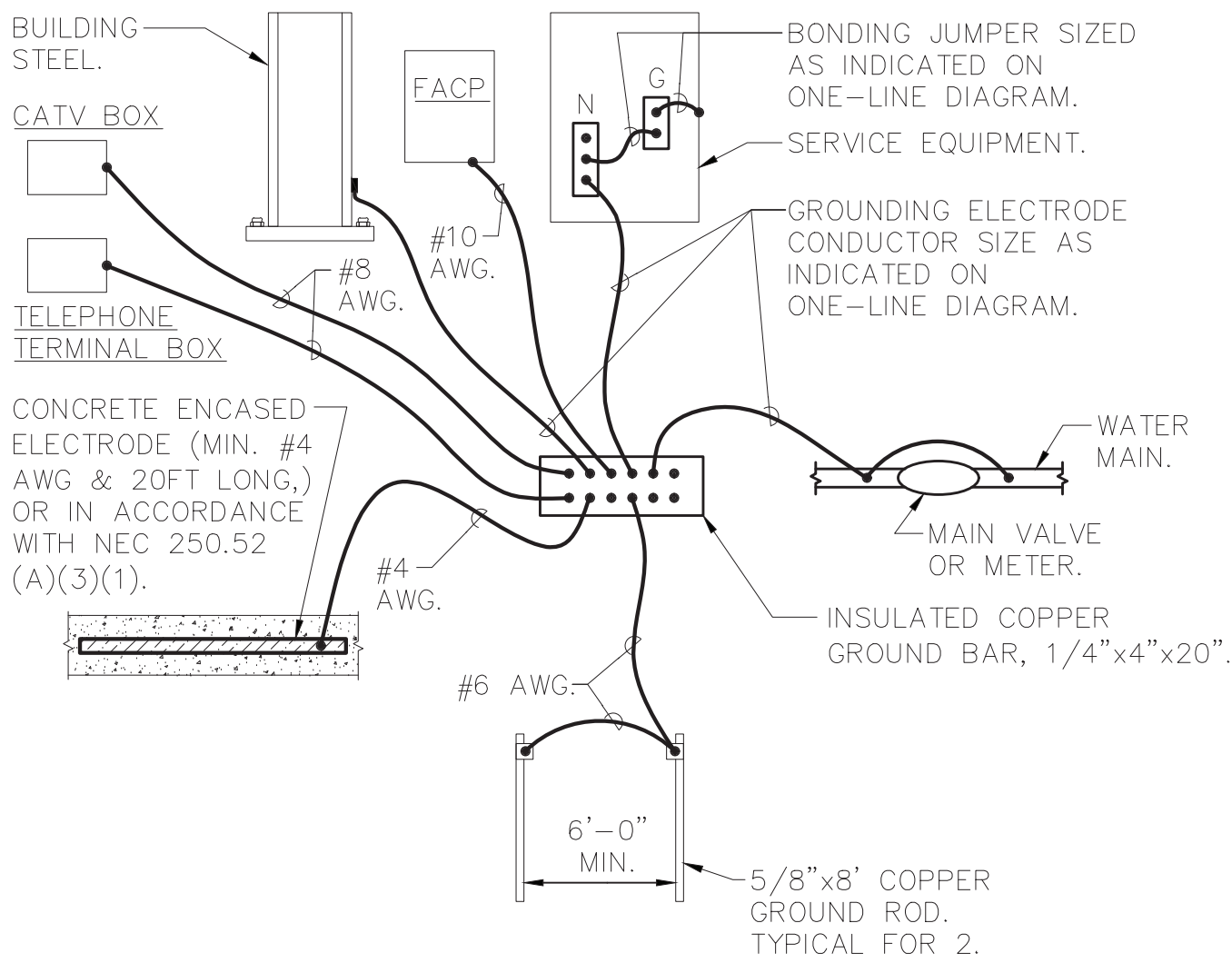
CONTRACT NUMBER 17-521	SHEET NUMBER E-601
SHEET NO.51 OF 54	
SCALE: AS SHOWN DATE: 11/16/2021 DPW FILE NO.	REV. NO. 38-47-E-733-0 1



6 CONCRETE PAD DETAIL
SCALE: NONE

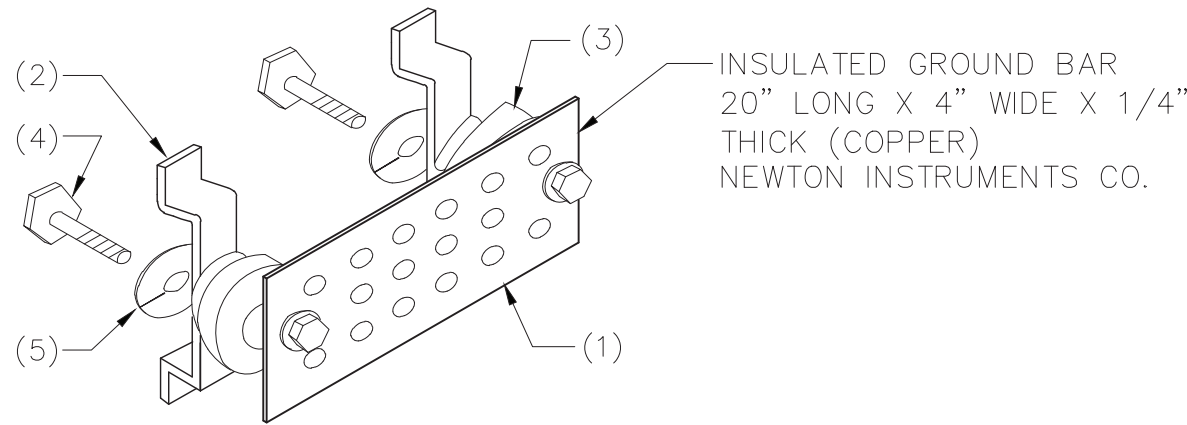


2 CONTACTOR WIRING DIAGRAM
SCALE: NONE



- NOTES:
- 1.) CONNECTION TO WATER MAIN AND FIRE PROTECTION MAIN SHALL BE A MAXIMUM OF 5'-0" FROM WHERE THE PIPE ENTERS THE BUILDING AND BE PRIOR TO ANY METER, VALVE JOINT, ETC.
 - 2.) ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE USING COMPRESSION LUGS SIZED TO ACCOMODATE THE CONDUCTORS.

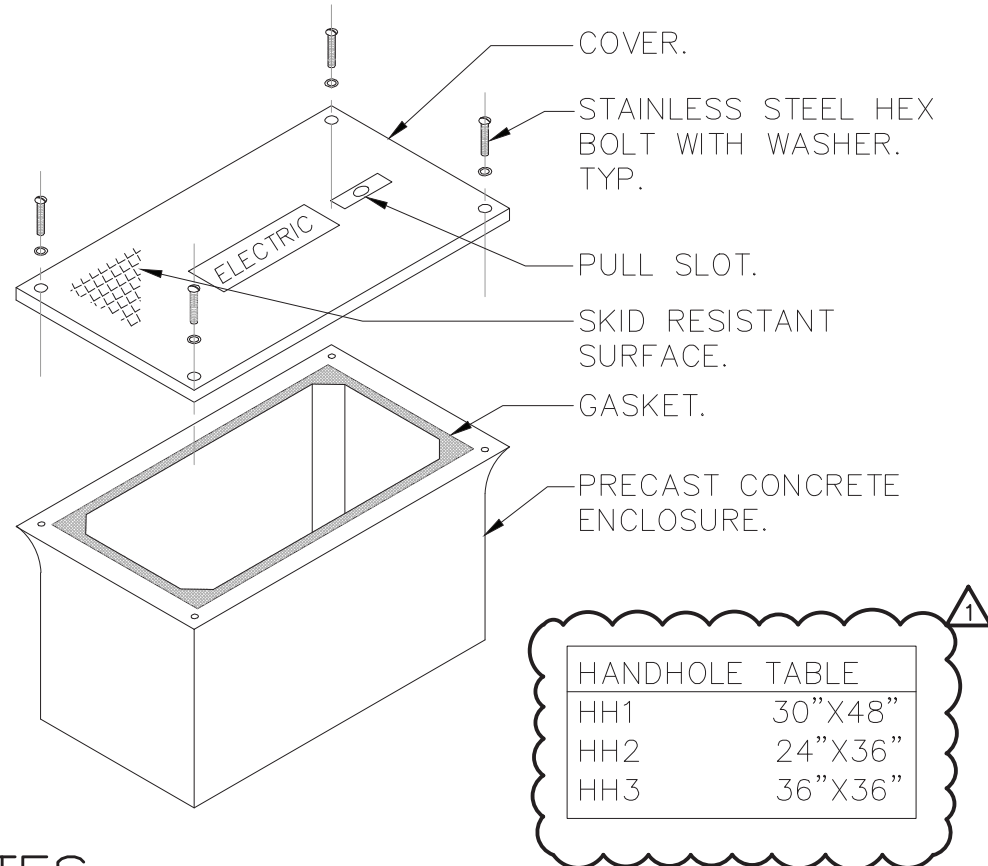
5 SERVICE GROUNDING DETAIL
SCALE: NONE



ITEM	QTY	DESCRIPTION
1	1	GROUND BAR
2	2	WALL MTG BRACKET
3	2	INSULATOR
4	4	5/8-11X1" HHCS
5	4	5/8" LOCK WASHER.

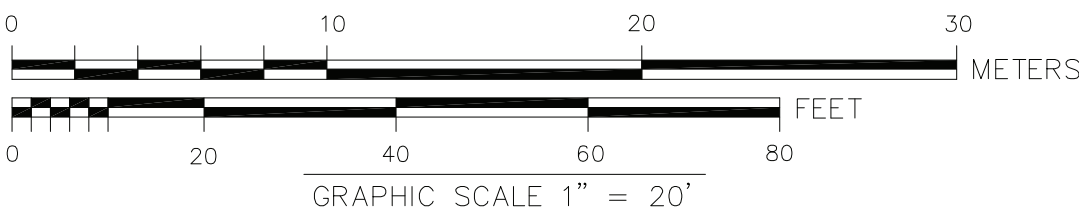
- NOTES:
1. INSTALL A "GROUNDING ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.

GROUNDING
3 ELECTRODE GROUND BAR DETAIL
SCALE: NONE



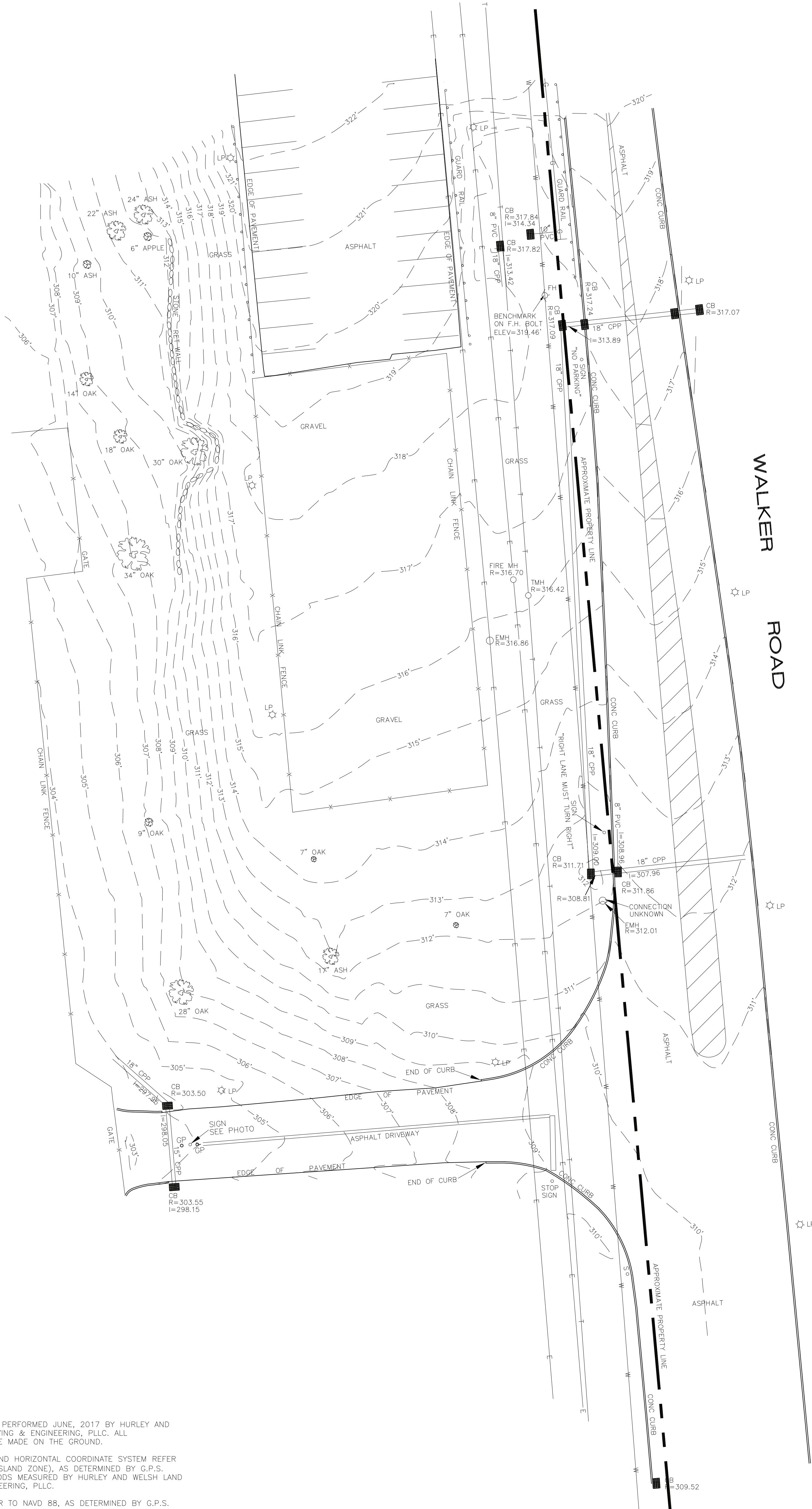
- NOTES:
1. HAND HOLE SHALL BE HAVE OPEN BOTTOM AND RATED FOR VEHICULAR TRAFFIC, H2O, AS MANUFACTURED BY QUAZITE OR APPROVED EQUAL. BOX SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SEE PLAN FOR SIZE.
 2. PROVIDE 6" OF GRAVEL BELOW BOX.
 3. COVER SHALL BE IMPRINTED WITH "COMMUNICATIONS" FOR FIBER/IT AND "ELECTRIC" FOR POWER.

1 HAND HOLE DETAIL
SCALE: NONE



LEGEND

	STREAM
	TREE LINE
	HEDGE LINE
	APPROX. BUILDING LINE
	FENCE
	RETAINING WALL
	GUARD RAIL
	SIDEWALK
	EDGE OF PAVEMENT
	CURBING(TYPE)
	APPROX. R.O.W. LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	WATER LINE
	SEWER LINE
	TELEPHONE LINE
	ELECTRIC LINE
	DRAIN LINE
	GAS LINE
	TRAFFIC CONTROL LINE
	OVERHEAD WIRES
	SURVEY CONTROL STATION
	MILE MARKER
	SIGN
	FLAG POLE
	BOLLARD/GUARD POST
	TRAFFIC SIGNAL BOX
	PEDESTRIAN TRAFFIC SIGNAL POLE
	TRAFFIC SIGNAL POLE WITH MAST ARM
	GUY POLE
	UTILITY POLE/LIGHT
	UTILITY POLE
	LIGHT POLE
	LIGHT POLE CONC BASE
	GUY ANCHOR
	DROP INLET (CURB INLET)
	DRAIN MANHOLE
	CATCH BASIN
	GAS VALVE
	MONITORING WELL
	TELEPHONE MANHOLE
	ELECTRIC MANHOLE
	ELECTRIC HANDHOLE
	SEWER MANHOLE
	MANHOLE
	VENT PIPE
	FIRE HYDRANT
	WATER METER
	WATER VALVE
	SPOT ELEVATION
	TREE CONIFEROUS
	TREE DECIDUOUS
	HANDICAPPED RAMP
	BENCHMARK
	CHAIN LINK FENCE
	CORRUGATED METAL PIPE
	CONCRETE
	DETECTABLE WARNING SURFACE MAT
	ELECTRIC ELEVATION
	EDGE OF PAVEMENT
	GUARD RAIL
	INVERT ELEVATION
	HANDICAPPED RAMP
	TRAFFIC LOOP DETECTOR
	LANDSCAPED
	NO PIPES VISIBLE
	NOT TO SCALE
	REINFORCED CONCRETE PIPE
	RIM ELEVATION
	SUMP ELEVATION
	SILTED ELEVATION
	STATION
	TRENCH DRAIN
	TOP OF HEADWALL
	TOP OF PIPE
	WOOD
	BM
	CLF
	CMP
	CONC
	DWS
	ELEC
	ELEV
	EOP
	GR
	I=
	HCAP
	LOOP
	L/S
	NPV
	N.T.S.
	RCP
	R=
	S=
	SI=
	STA
	TD
	THW=
	TP=
	WD



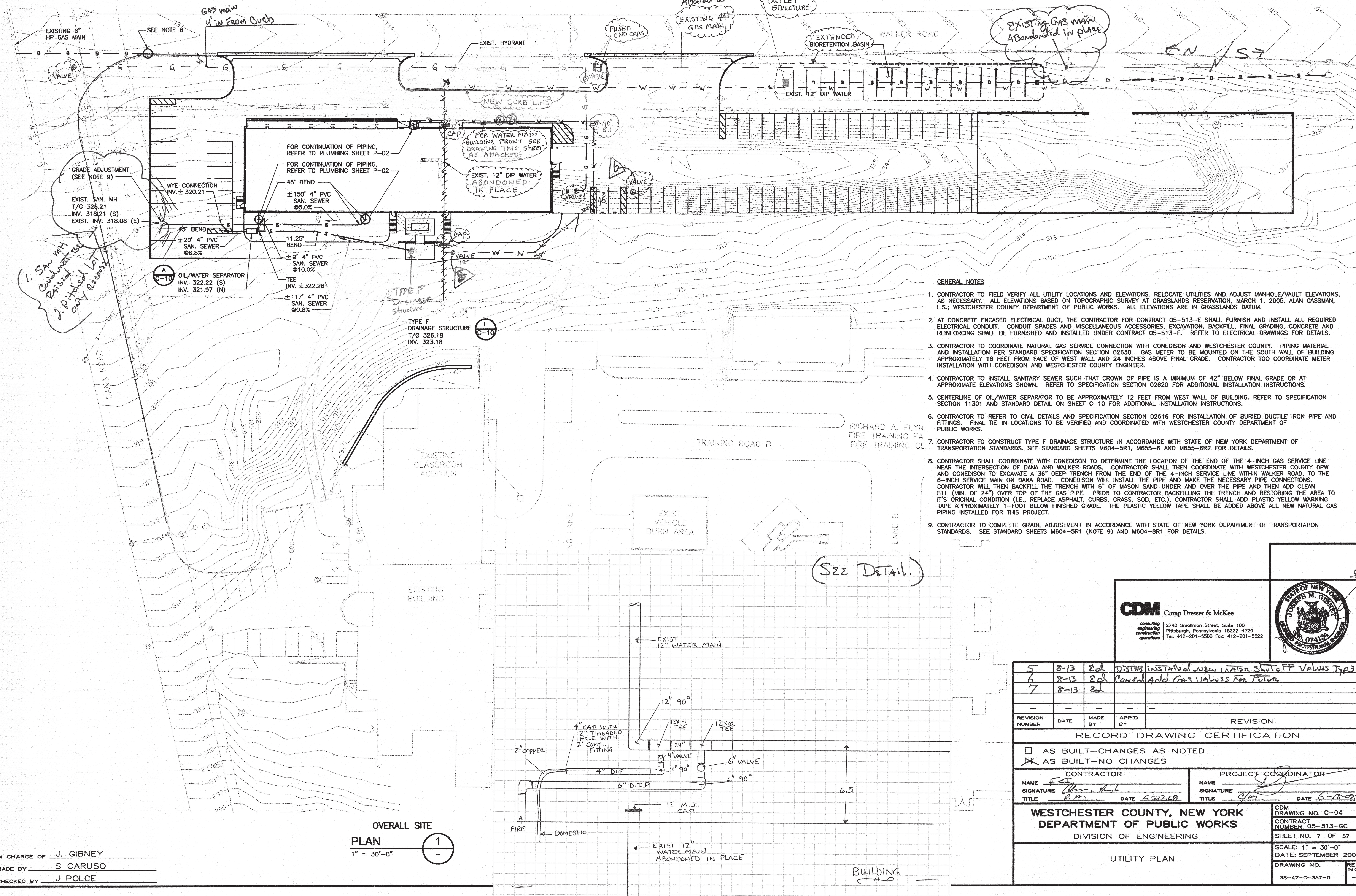
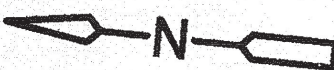
NOTES

1. FIELD WORK WAS PERFORMED JUNE, 2017 BY HURLEY AND WELSH LAND SURVEYING & ENGINEERING, PLLC. ALL MEASUREMENTS WERE MADE ON THE GROUND.
2. NORTH ARROW, AND HORIZONTAL COORDINATE SYSTEM REFER TO NAD 83 (LONG ISLAND ZONE), AS DETERMINED BY G.P.S. FIELD SURVEY METHODS MEASURED BY HURLEY AND WELSH LAND SURVEYING & ENGINEERING, PLLC.
3. ELEVATIONS REFER TO NAVD 88, AS DETERMINED BY G.P.S. FIELD SURVEY METHODS MEASURED BY HURLEY AND WELSH LAND SURVEYING & ENGINEERING, PLLC.
4. INDICATED UNDERGROUND UTILITIES ARE SHOWN FROM AVAILABLE DATA, AND FROM SURFACE EVIDENCE. UNDERGROUND LINE LOCATIONS ARE APPROXIMATE AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CALL "CALL BEFORE YOU DIG" AT 811 AND HAVE ALL UTILITY LOCATIONS MARKED ON THE GROUND.

Unauthorized alteration or addition to this survey is a violation of section 7209, subdivision 2, of the New York State Education Law. Copies of this survey map not bearing the land surveyor's inked or embossed seal shall not be considered to be a valid copy.

8	
7	
6	
5	
4	
3	
2	
1	WATER LINE CORRECTED 7/26/2017
REVISIONS	
HURLEY and WELSH Land Surveying & Engineering, PLLC 27 Brook Street West Sayville, NY 11796 (631) 750-6296	
PROJECT: WESTCHESTER COUNTY FIRE TRAINING CENTER	
TOPOGRAPHIC SURVEY	
DATE:	7/7/2017
SCALE:	1"=20'
PROJECT No:	17-1012
DRAWN BY:	B.W.
CHK BY:	J.H.
SHEET:	
1 OF 1	

1" = 30'



- GENERAL NOTES**
- CONTRACTOR TO FIELD VERIFY ALL UTILITY LOCATIONS AND ELEVATIONS. RELOCATE UTILITIES AND ADJUST MANHOLE/VAULT ELEVATIONS, AS NECESSARY. ALL ELEVATIONS BASED ON TOPOGRAPHIC SURVEY AT GRASSLANDS RESERVATION, MARCH 1, 2005, ALAN GASSMAN, L.S.; WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS. ALL ELEVATIONS ARE IN GRASSLANDS DATUM.
 - AT CONCRETE ENCASED ELECTRICAL DUCT, THE CONTRACTOR FOR CONTRACT 05-513-E SHALL FURNISH AND INSTALL ALL REQUIRED ELECTRICAL CONDUIT. CONDUIT SPACES AND MISCELLANEOUS ACCESSORIES, EXCAVATION, BACKFILL, FINAL GRADING, CONCRETE AND REINFORCING SHALL BE FURNISHED AND INSTALLED UNDER CONTRACT 05-513-E. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
 - CONTRACTOR TO COORDINATE NATURAL GAS SERVICE CONNECTION WITH CONEDISON AND WESTCHESTER COUNTY. PIPING MATERIAL AND INSTALLATION PER STANDARD SPECIFICATION SECTION 02630. GAS METER TO BE MOUNTED ON THE SOUTH WALL OF BUILDING APPROXIMATELY 16 FEET FROM FACE OF WEST WALL AND 24 INCHES ABOVE FINAL GRADE. CONTRACTOR TOO COORDINATE METER INSTALLATION WITH CONEDISON AND WESTCHESTER COUNTY ENGINEER.
 - CONTRACTOR TO INSTALL SANITARY SEWER SUCH THAT CROWN OF PIPE IS A MINIMUM OF 42" BELOW FINAL GRADE OR AT APPROXIMATE ELEVATIONS SHOWN. REFER TO SPECIFICATION SECTION 02620 FOR ADDITIONAL INSTALLATION INSTRUCTIONS.
 - CENTERLINE OF OIL/WATER SEPARATOR TO BE APPROXIMATELY 12 FEET FROM WEST WALL OF BUILDING. REFER TO SPECIFICATION SECTION 11301 AND STANDARD DETAIL ON SHEET C-10 FOR ADDITIONAL INSTALLATION INSTRUCTIONS.
 - CONTRACTOR TO REFER TO CIVIL DETAILS AND SPECIFICATION SECTION 02616 FOR INSTALLATION OF BURIED DUCTILE IRON PIPE AND FITTINGS. FINAL TIE-IN LOCATIONS TO BE VERIFIED AND COORDINATED WITH WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS.
 - CONTRACTOR TO CONSTRUCT TYPE F DRAINAGE STRUCTURE IN ACCORDANCE WITH STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STANDARDS. SEE STANDARD SHEETS M604-5R1, M655-6 AND M655-8R2 FOR DETAILS.
 - CONTRACTOR SHALL COORDINATE WITH CONEDISON TO DETERMINE THE LOCATION OF THE END OF THE 4-INCH GAS SERVICE LINE NEAR THE INTERSECTION OF DANA AND WALKER ROADS. CONTRACTOR SHALL THEN COORDINATE WITH WESTCHESTER COUNTY DPW AND CONEDISON TO EXCAVATE A 36" DEEP TRENCH FROM THE END OF THE 4-INCH SERVICE LINE WITHIN WALKER ROAD, TO THE 6-INCH SERVICE MAIN ON DANA ROAD. CONEDISON WILL INSTALL THE PIPE AND MAKE THE NECESSARY PIPE CONNECTIONS. CONTRACTOR WILL THEN BACKFILL THE TRENCH WITH 6" OF MASON SAND UNDER AND OVER THE PIPE AND THEN ADD CLEAN FILL (MIN. OF 24") OVER TOP OF THE GAS PIPE. PRIOR TO CONTRACTOR BACKFILLING THE TRENCH AND RESTORING THE AREA TO ITS ORIGINAL CONDITION (I.E., REPLACE ASPHALT, CURBS, GRASS, SOD, ETC.), CONTRACTOR SHALL ADD PLASTIC YELLOW WARNING TAPE APPROXIMATELY 1-FOOT BELOW FINISHED GRADE. THE PLASTIC YELLOW TAPE SHALL BE ADDED ABOVE ALL NEW NATURAL GAS PIPING INSTALLED FOR THIS PROJECT.
 - CONTRACTOR TO COMPLETE GRADE ADJUSTMENT IN ACCORDANCE WITH STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION STANDARDS. SEE STANDARD SHEETS M604-5R1 (NOTE 9) AND M604-8R1 FOR DETAILS.

IN CHARGE OF J. GIBNEY
MADE BY S. CARUSO
CHECKED BY J. POLCE

OVERALL SITE
PLAN
1" = 30'-0"

CDM
Camp Dresser & McKee
consulting
engineering
construction
operations

2740 Smallman Street, Suite 100
Pittsburgh, Pennsylvania 15222-4720
Tel: 412-201-5500 Fax: 412-201-5522

5	8-13	Ed	Dist# installed new water shut off valves typ 3
6	8-13	Ed	Revised and Gas valves for future
7	8-13	Ed	
REVISION NUMBER	DATE	MADE BY	APP'D BY
REVISION			
RECORD DRAWING CERTIFICATION			
<input type="checkbox"/> AS BUILT-CHANGES AS NOTED <input checked="" type="checkbox"/> AS BUILT-NO CHANGES			
CONTRACTOR NAME: <u>F.C.T.</u> SIGNATURE: <u>[Signature]</u> TITLE: <u>P.M.</u>		PROJECT COORDINATOR NAME: <u>[Signature]</u> SIGNATURE: <u>[Signature]</u> TITLE: <u>G.M.</u>	
DATE: <u>8-27-08</u>		DATE: <u>8-18-08</u>	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING			
UTILITY PLAN			
DRAWING NO. 38-47-0-337-0		REV. NO. -	