NO.	ISSUANCE	DATE	REVISION
1	50% DESIGN DEVELOPMENT SUBMISSION	05-01-2020	
2	100% DESIGN DEVELOPMENT SUBMISSION	06-01-2020	
3	100% CD SUBMISSION	11-05-2020	
4	SED SUBMISSION	02-23-2021	
5	BID SUBMISSION	01-14-2022	

# YONKERS PUBLIC SCHOOLS

One Larkin Center, Yonkers, New York 10701

# PHASE 1 - DOORS, BOILER SYSTEM REPLACEMENT & SITE UPGRADES SCHOOL 29

47 CROYDON ROAD, YONKERS N.Y. 10710

### LIST OF DRAWINGS

- REMOVAL REFLECTED CEILING PLANS

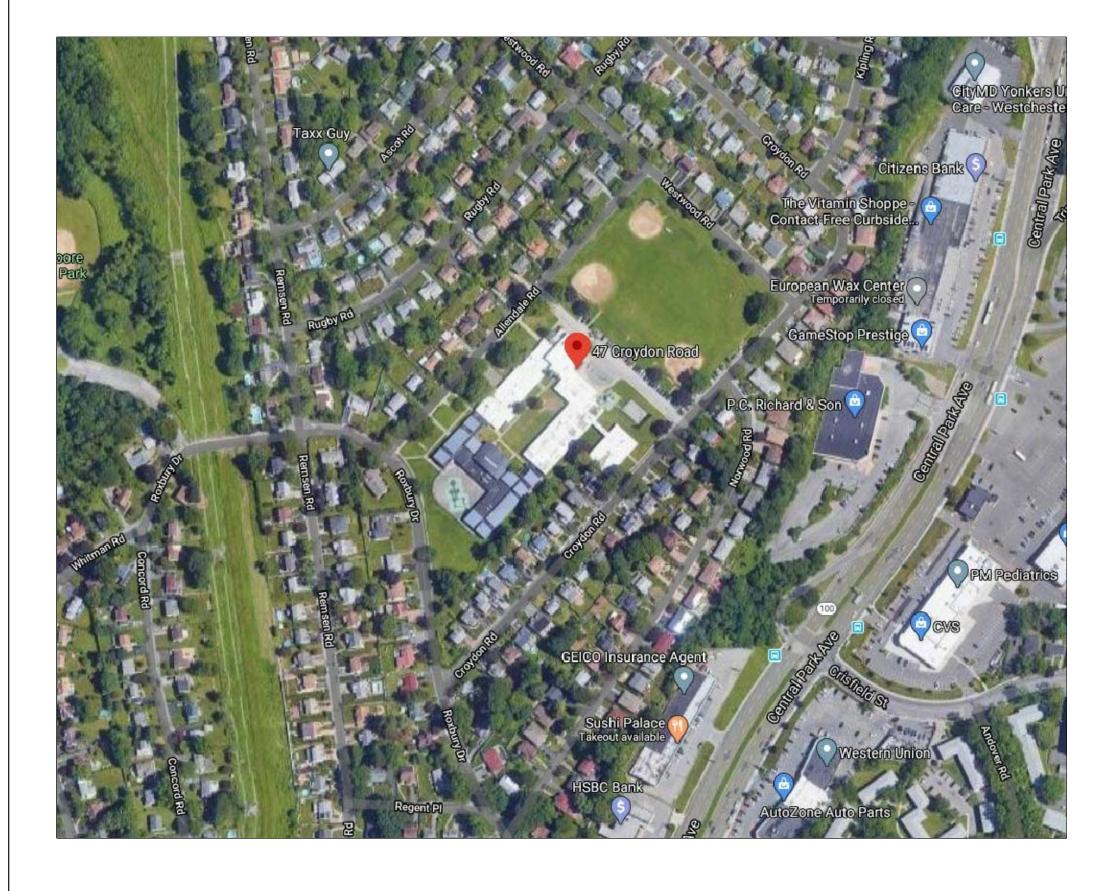
- PARTITION TYPES & MISCELLANEOUS DETAILS
- FINISH FLOOR PLANS, FINISH SCHEDULE LEGEND, FINISH SCHEDULE & DETAILS

### 

PARTIAL FIRST FLOOR PLAN

### \_ LEGEND, ABBREVIATIONS AND NOTES

- SECURITY RISER DIAGRAM SITE



# PROJECT LOCATION MAP

SCALE: N.T.S.

# DESIGN TEAM:

# **ARCHITECT FULLER AND D'ANGELO P.C.**

45 KNOLLWOOD ROAD, SUITE 401 ELMSFORD, NY 10523 phone: 914.592.4444 fax: 914.592.1717

### **ENVIRONMENTAL CONSULTANTS WARREN & PANZER**

228 EAST 45TH STREET NEW YORK, NY 10017 phone: 212.922.0077 fax: 212.922.0630

# **CIVIL ENGINEERS**

### **HUDSON ENGINEERING P.C.**

45 KNOLLWOOD ROAD, SUITE 201 ELMSFORD, NY 10523 phone: 914.909.0420 fax: 914.506.2086

### **ELECTRICAL ENGINEERS**

## BARILE, GALLAGHER & ASSOC.

39 MARBLE AVENUE PLEASANTVILLE, NY 10570 phone: 914.328.6060 fax: 914.328.9304

## **SECURITY**

# ITG LARSON, INC.

155 LAFAYETTE AVENUE WHITE PLAINS, NY 10603 phone: 914.719.7272

# YONKERS PUBLIC SCHOOLS

# **BOARD OF EDUCATION**

Rev. Steve Lopez, President Dr. Rosalba Corrado Del Vecchio, Vice President

Sheila Greenwald

Andrea Brown

Kevin Cacace

Dr. John Castanaro

Rosemarie P. Linton

Amjed I. Kuri

Gail Burns

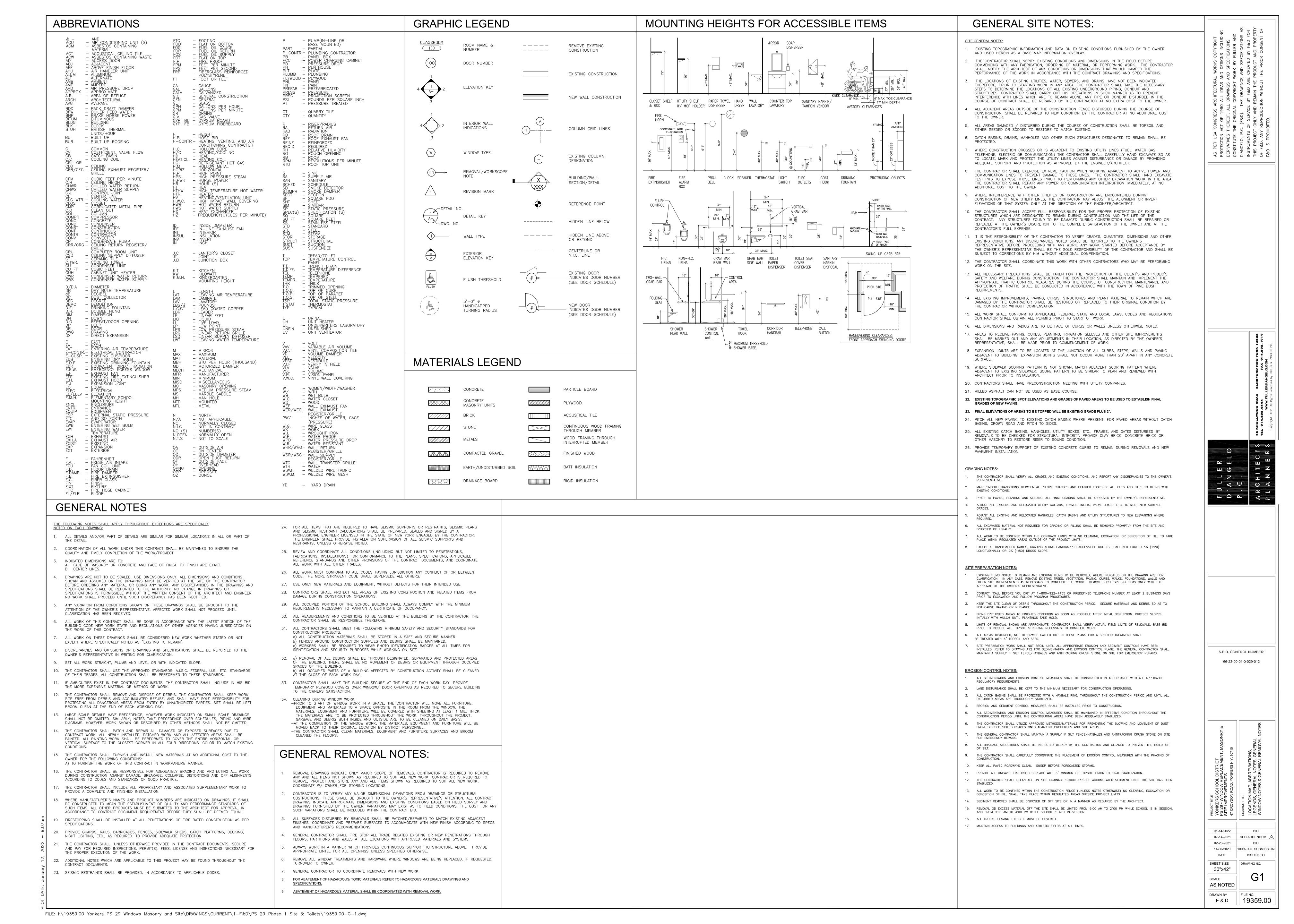
Dr. Edwin M. Quezada Superintendent of Schools

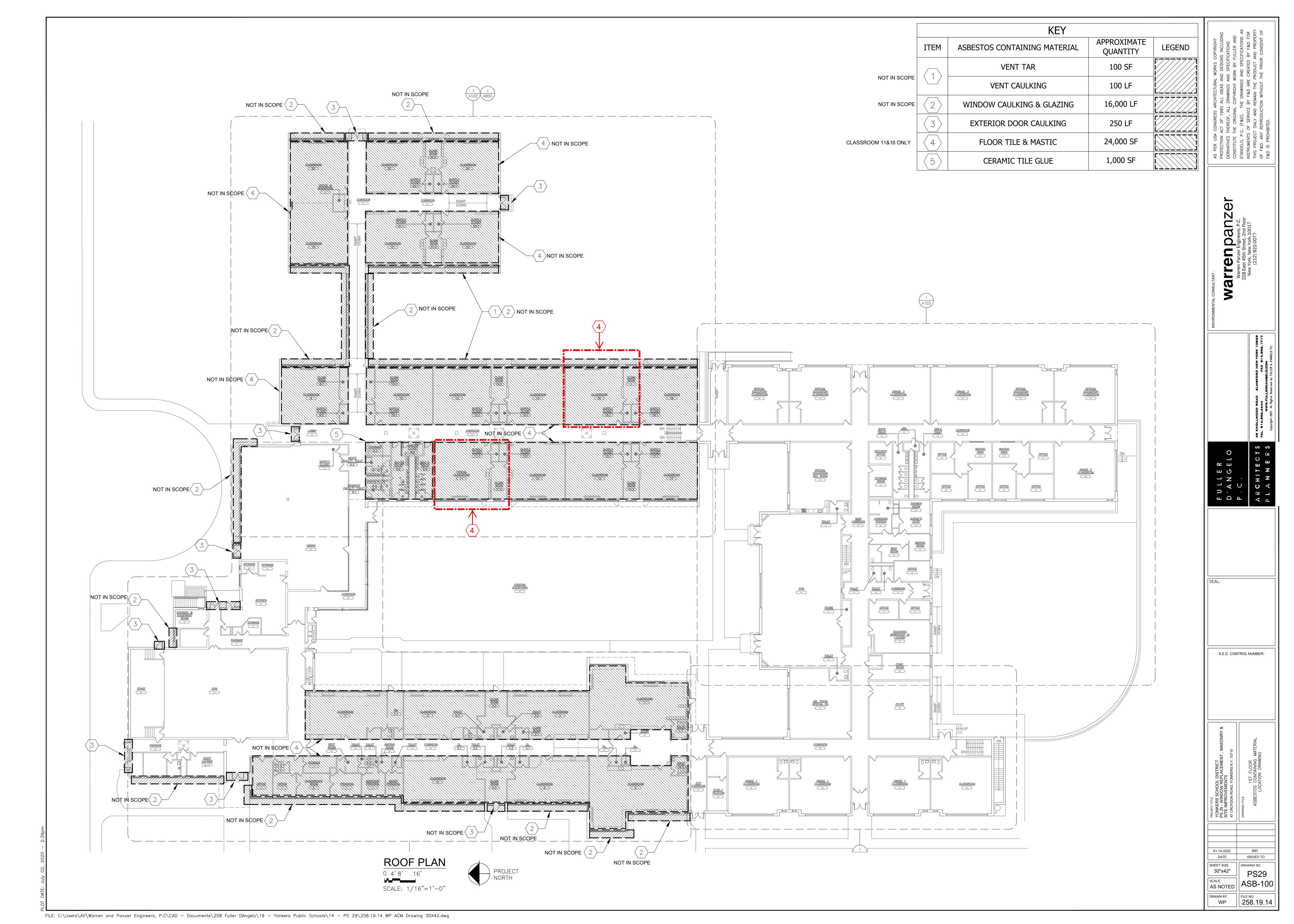
John P. Carr **Executive Director** School Facilities Management

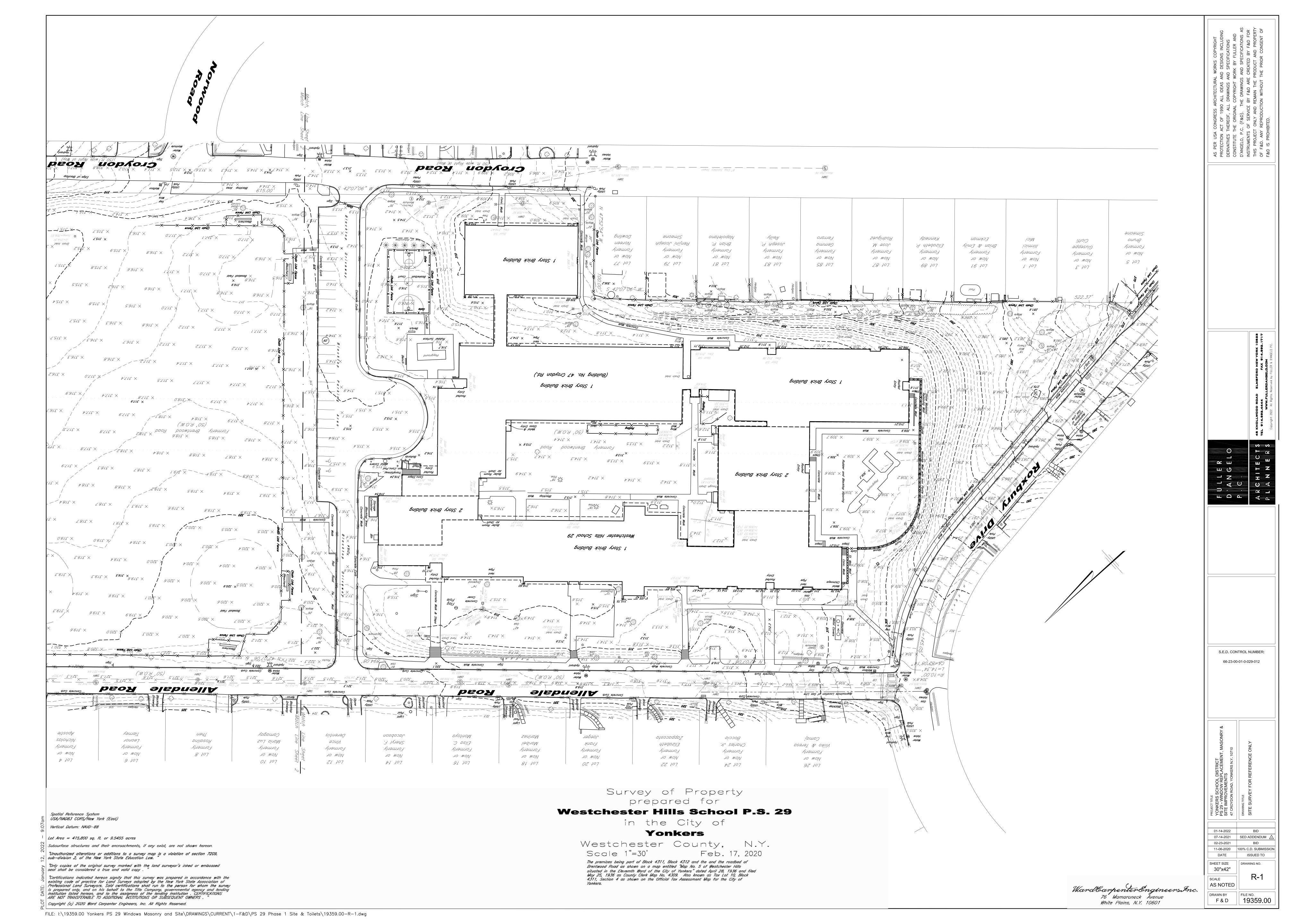
SED # 66-23-00-01-0-029-012

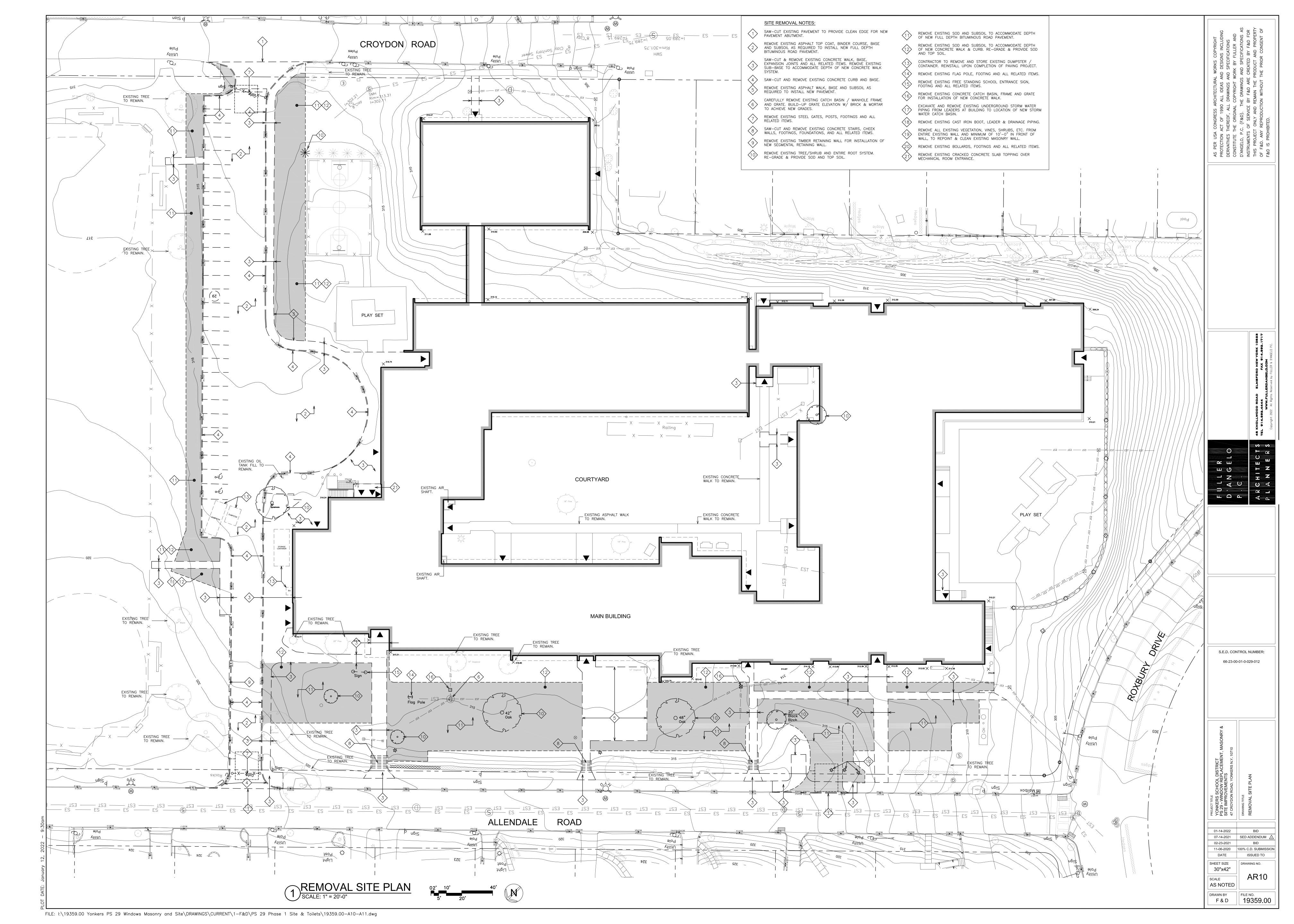
YPS JOB # 10878

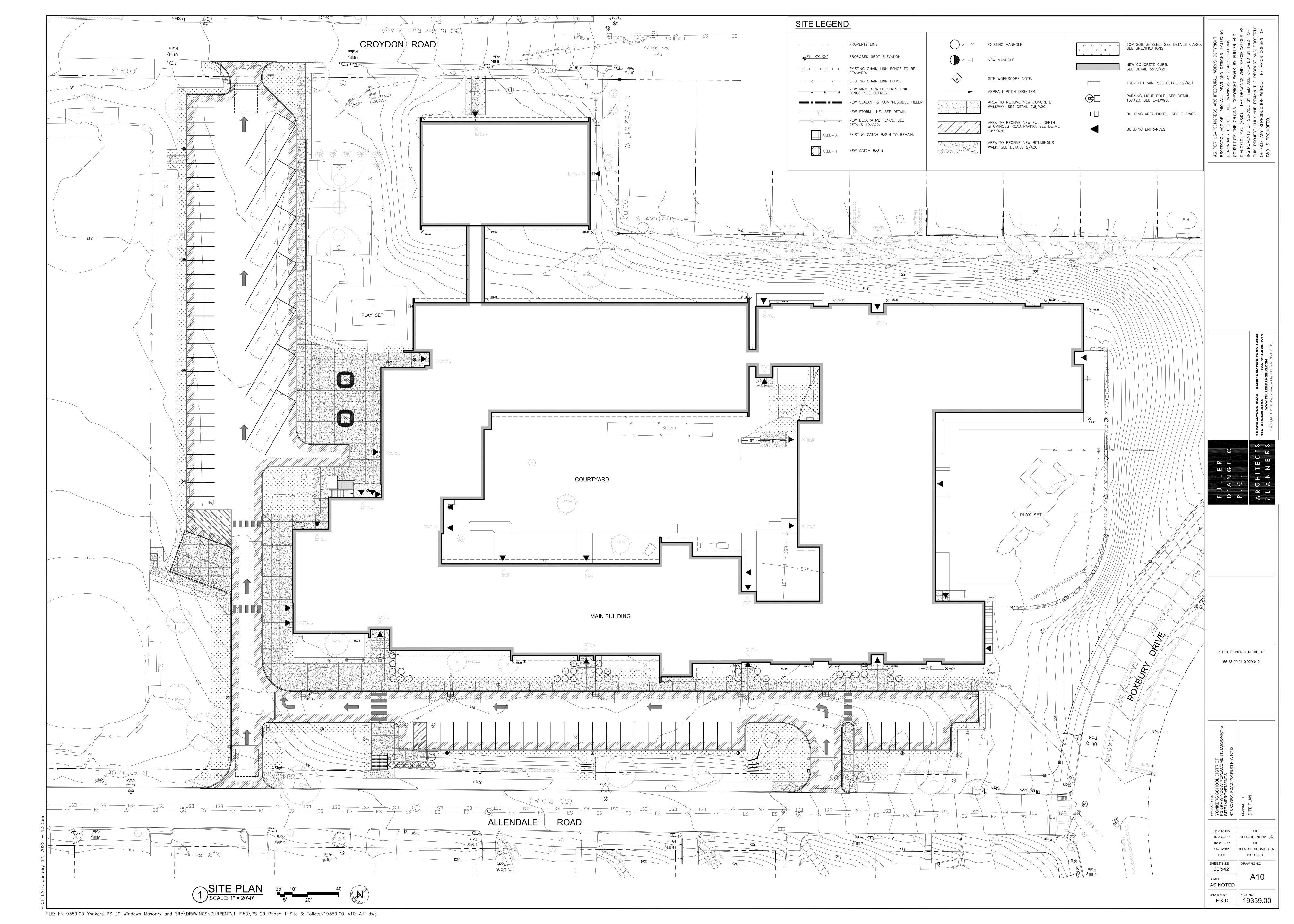
JANUARY 14, 2022

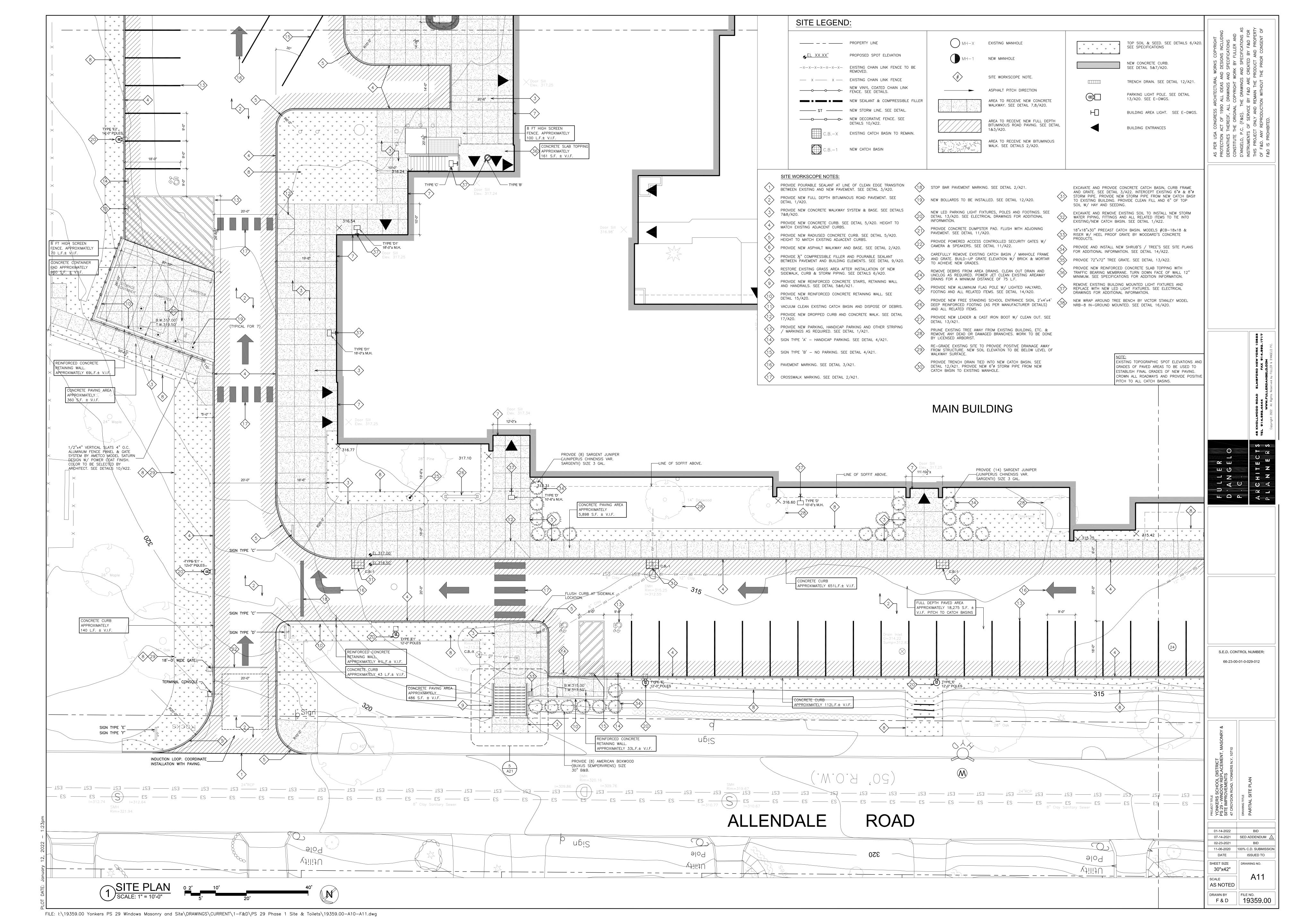


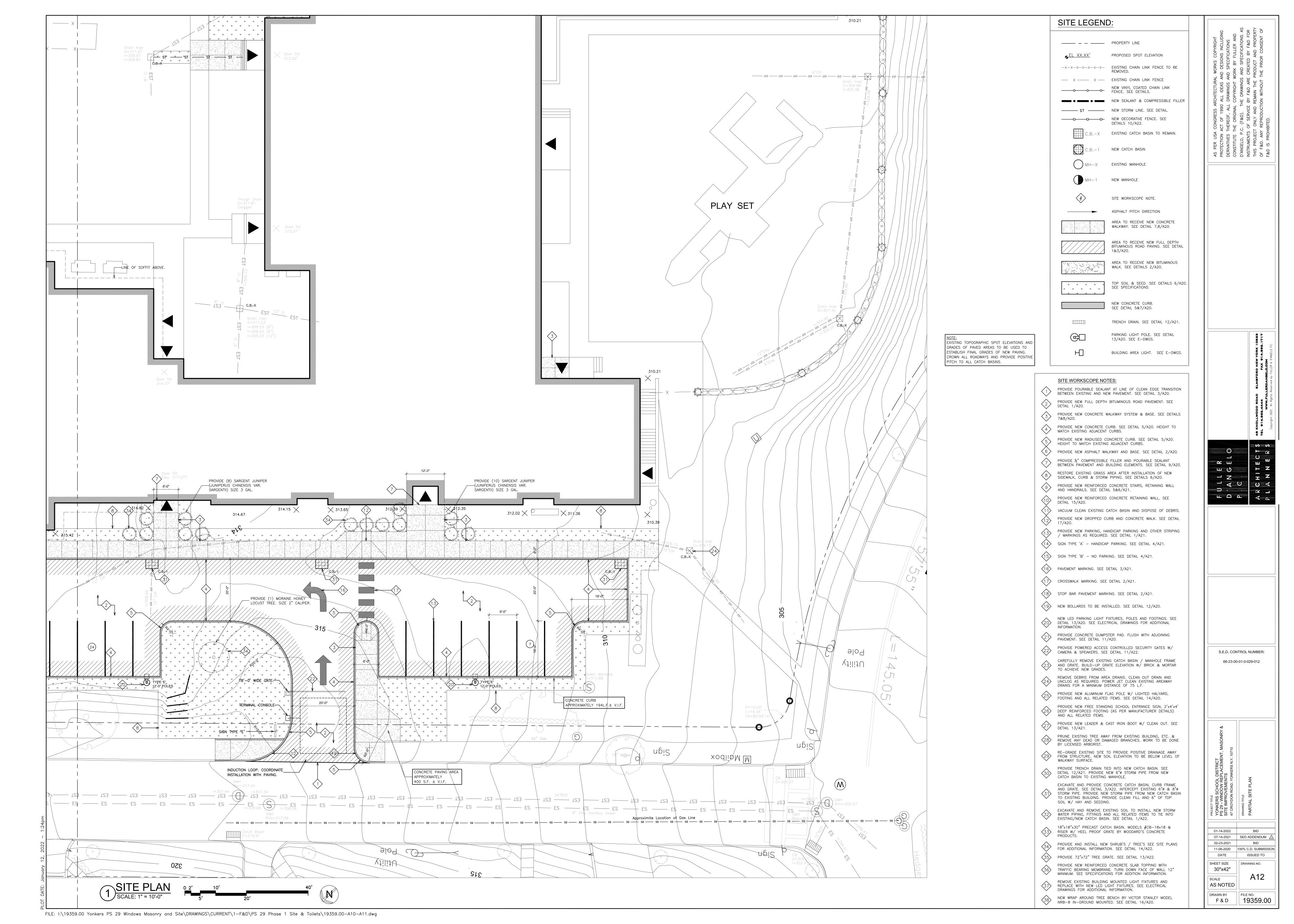


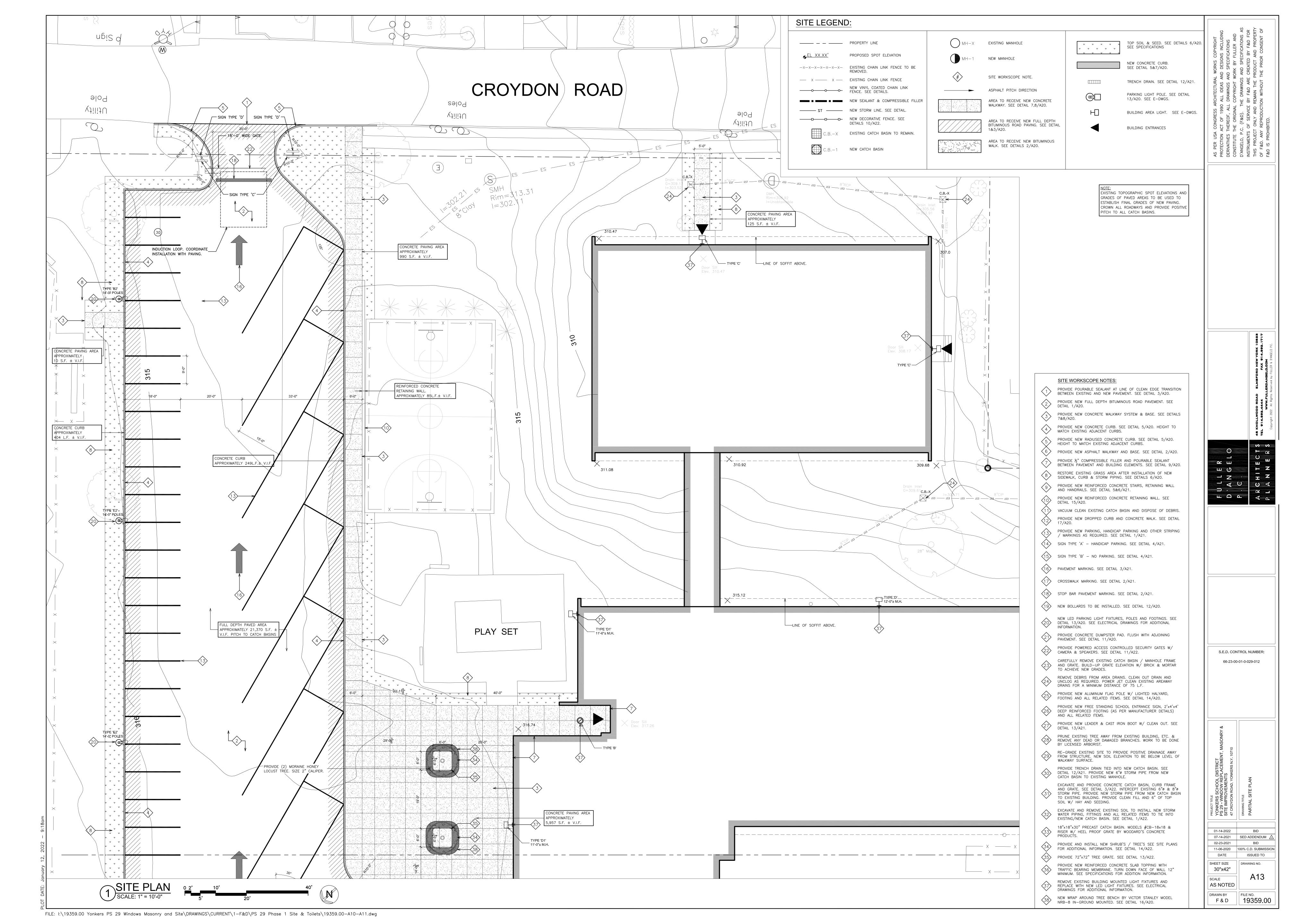


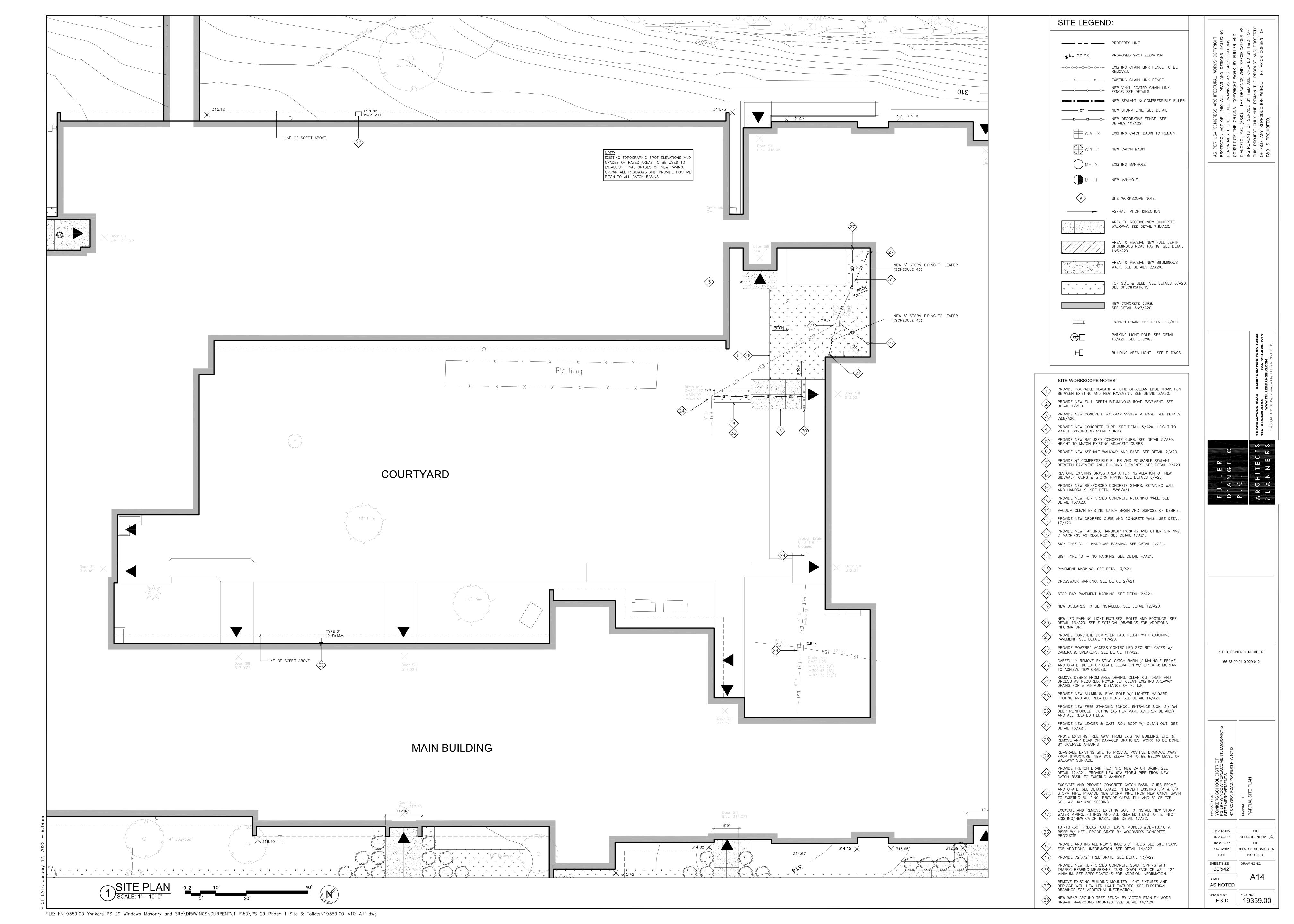


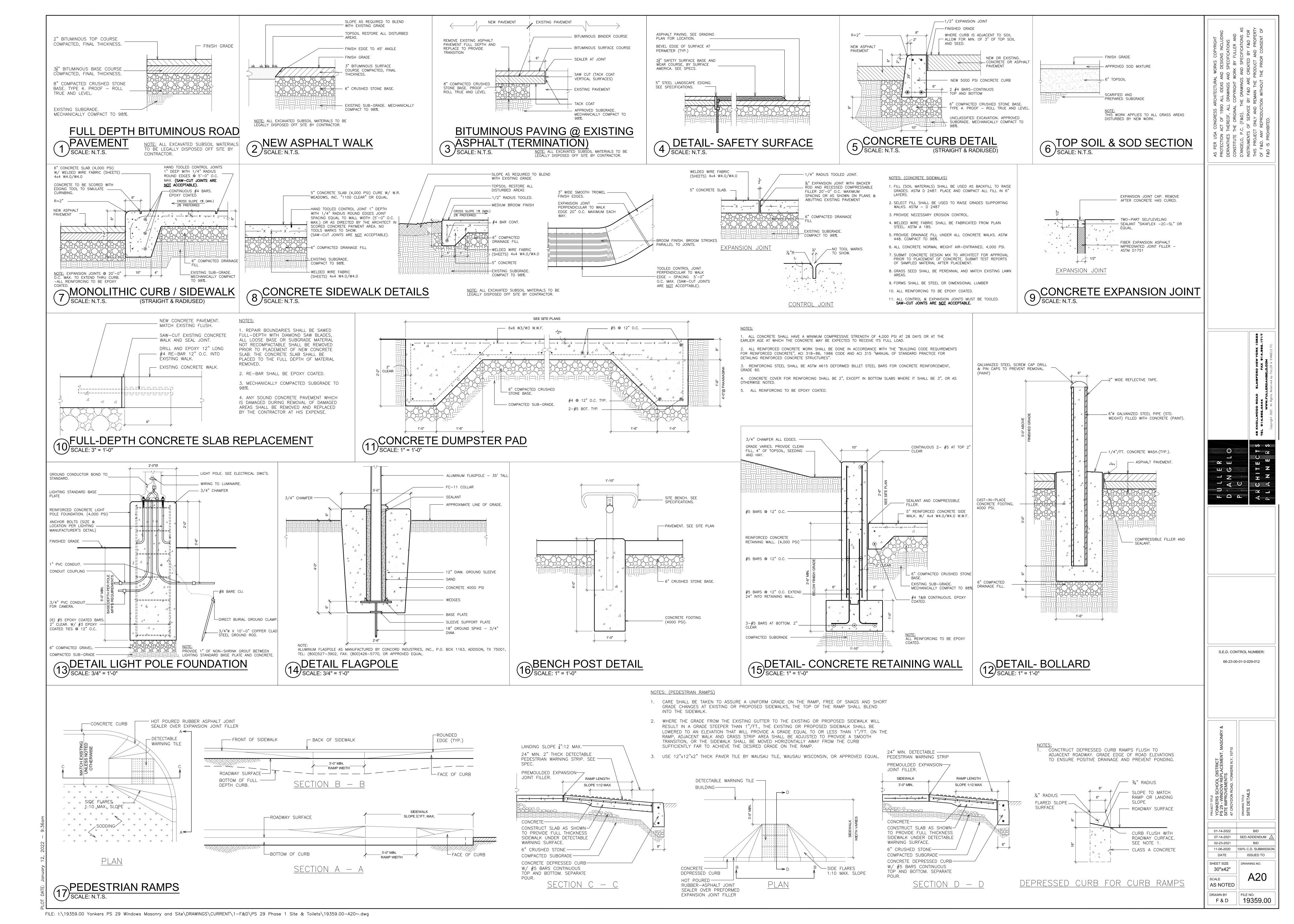


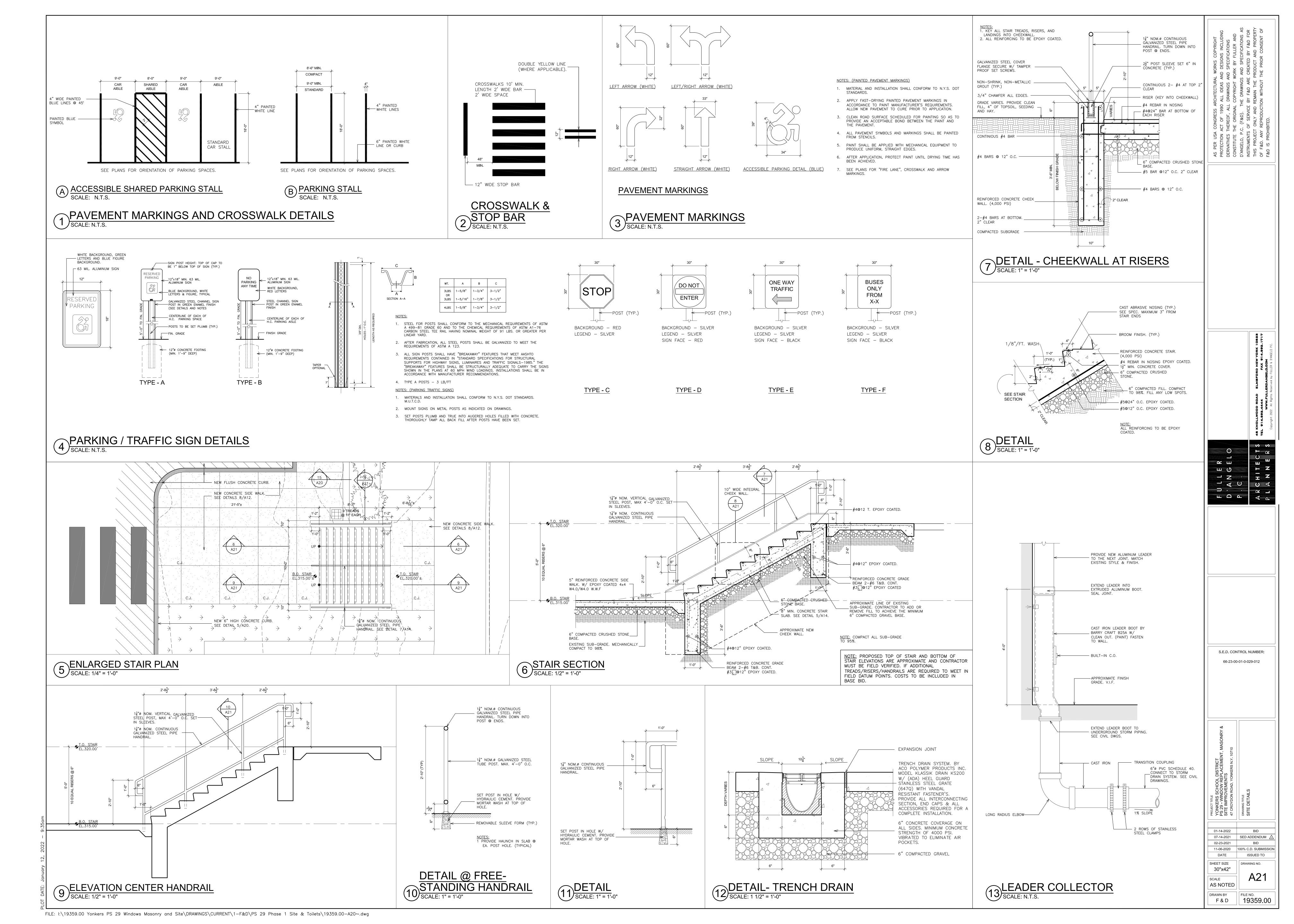


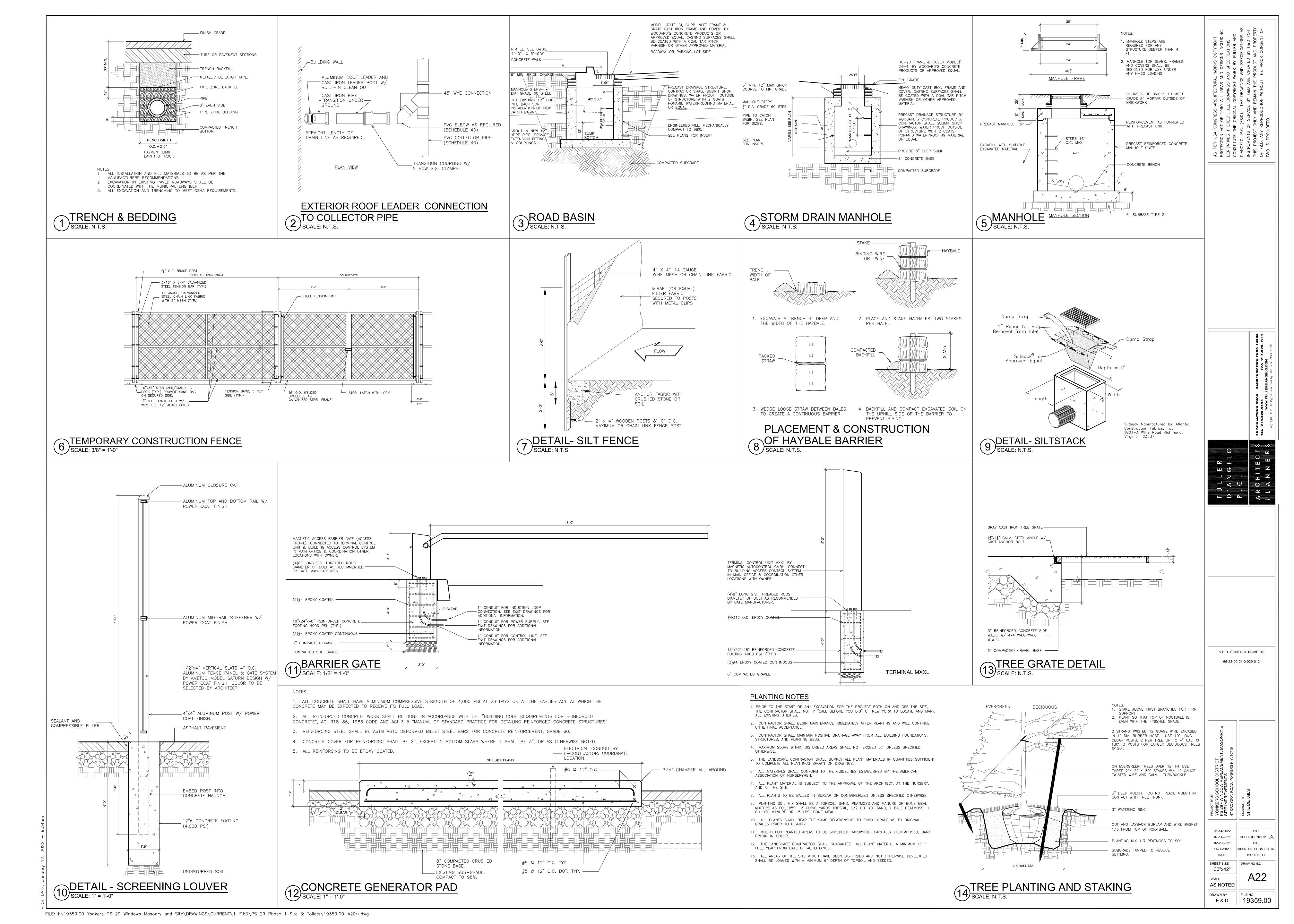


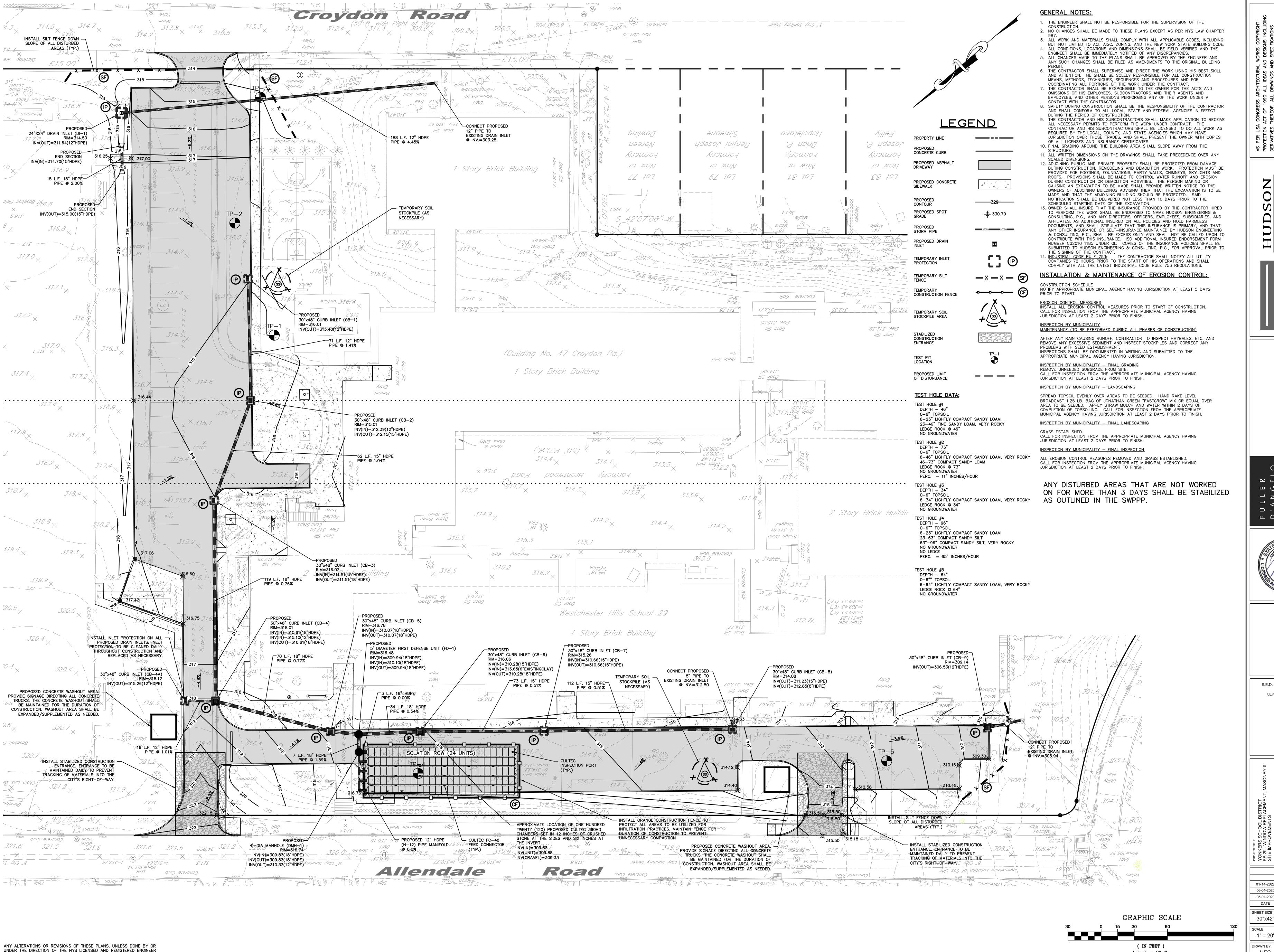












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S.E.D. CONTROL NUMBER 66-23-00-01-0-029-012

YPS #10878

01-14-2022 05-01-2020 | 50% D.D. SUBMISSION | DATE ISSUED TO 30"x42" 1" = 20'

FILE NO.

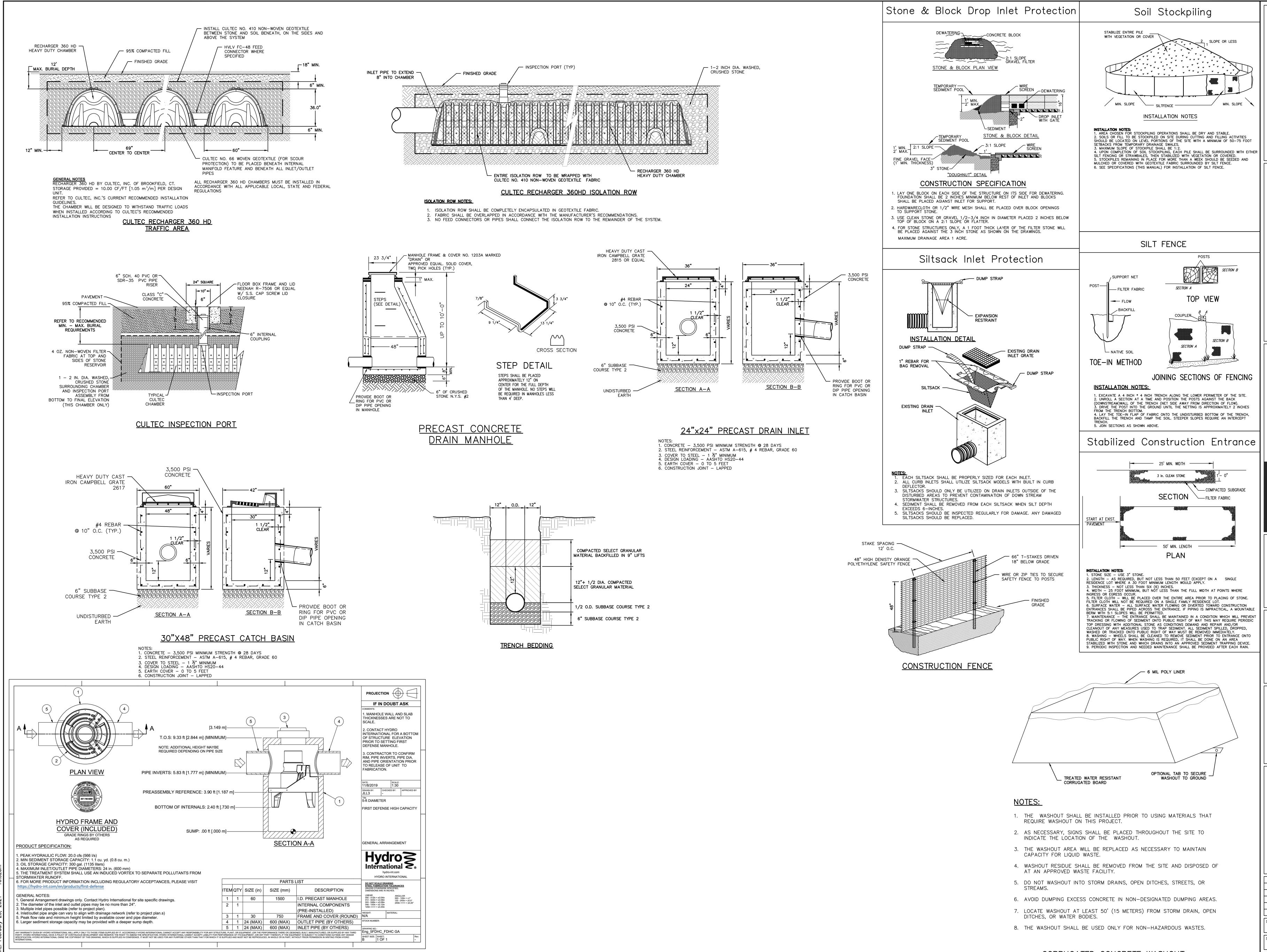
HEC

19359.00

1 inch = 30 ft.

FILE: C:\Users\tkohany\AppData\Local\Temp\AcPublish\_23144\PS29-Design.dwg

THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.



CORRUGATED CONCRETE WASHOUT

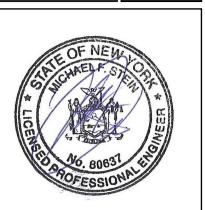
PER USA CONGRESS ARCHITECTURAL WORKS COPYRIGHT OTECTION ACT OF 1990 ALL IDEAS AND DESIGNS INCLUDING RIVATIVES THEREOF, ALL DRAWINGS AND SPECIFICATIONS NSTITUTE THE ORIGINAL COPYRIGHT WORK BY FULLER AND NGELO, P.C. (F&D). THE DRAWINGS AND SPECIFICATIONS STRUMENTS OF SERVICE BY F&D ARE CREATED BY F&D FOILS PROJECT ONLY AND REMAIN THE PRODUCT AND PROPER F&D. ANY REPRODUCTION WITHOUT THE PRIOR CONSENT OF THE PRIOR CONSENT OF THE PROPERTIES OF THE PRIOR CONSENT OF THE PROPERTIES OF THE PRIOR CONSENT OF THE PRIOR THE PRIOR CONSENT OF THE PRIOR THE PRIOR CONSENT OF THE PRIOR THE P

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HUDS(
ENCINEER
CONSULTING
45 Knollwood Road Elmsford, New York
T: 914-909-042
F: 914-560-208

4.892.1717
NGELO P.C.

FULLER
D'ANGELO
P.C.
ARCHITECTS
TEL 914.892.4444
OLANNERS
COPYIGHT STORY IN THE STO



S.E.D. CONTROL NUMBER: 66-23-00-01-0-029-012

YPS #10878

SITE IMPROVEMENTS
47 CROYDON ROAD, YONKERS N.Y. 10710

DRAWING TITLE

STORMWATER

MANAGEMENT/SEDIMENT AND

EROSION CONTROL DETAILS

01-14-2022 BID
06-01-2020 100% D.D. SUBMISSION
05-01-2020 50% D.D. SUBMISSION
DATE ISSUED TO

SHEET SIZE
30"x42"

SCALE
1" = 20'

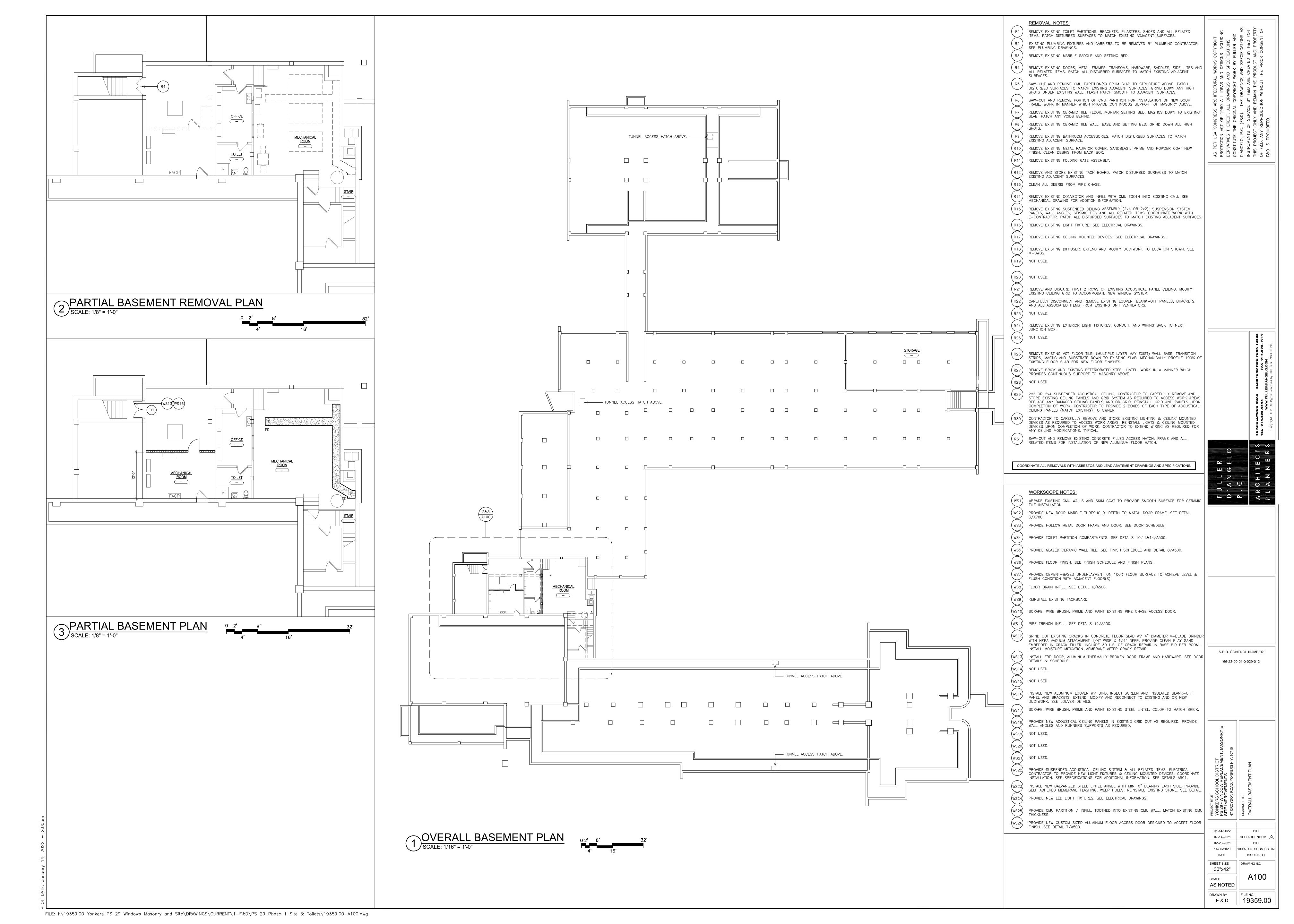
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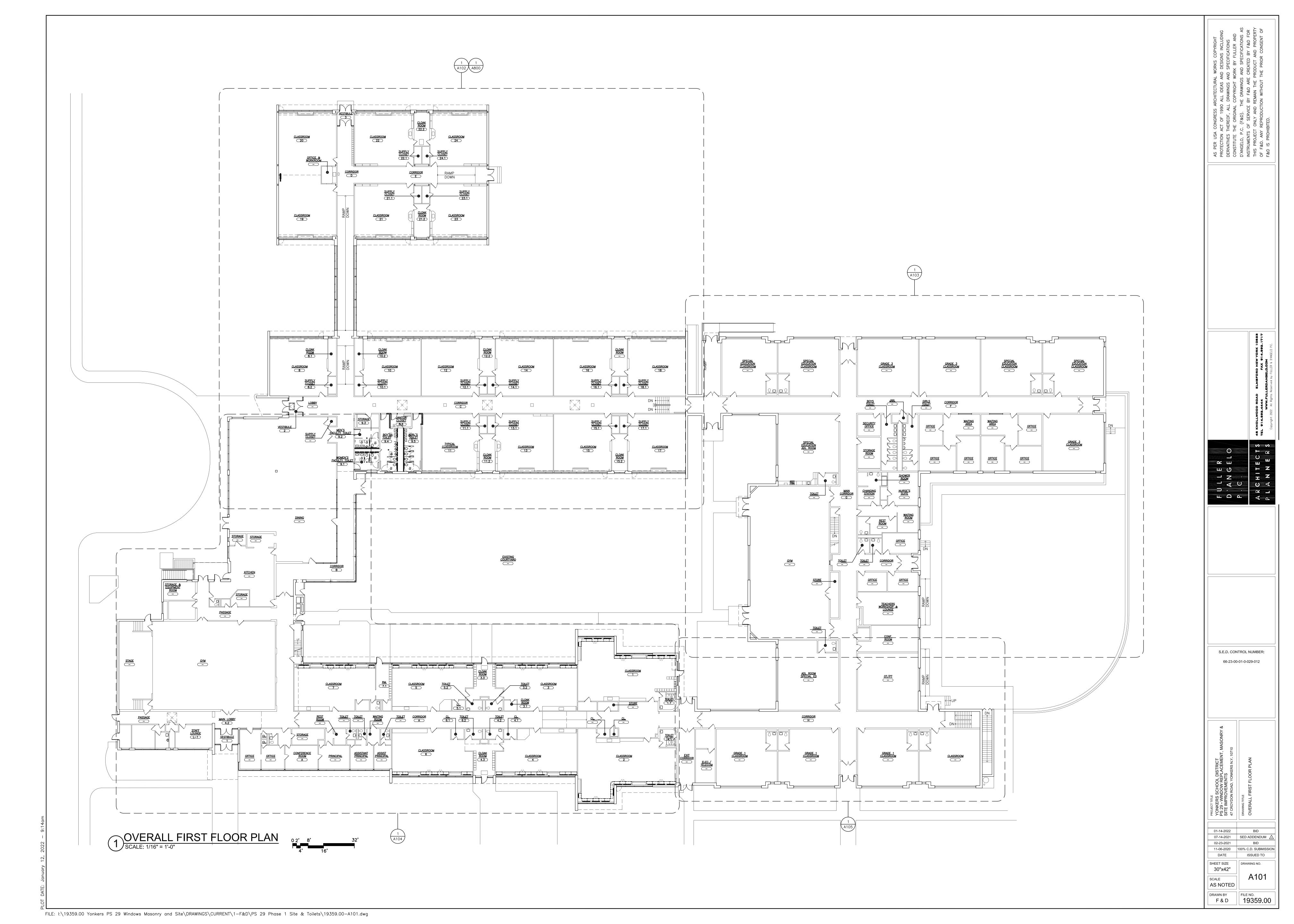
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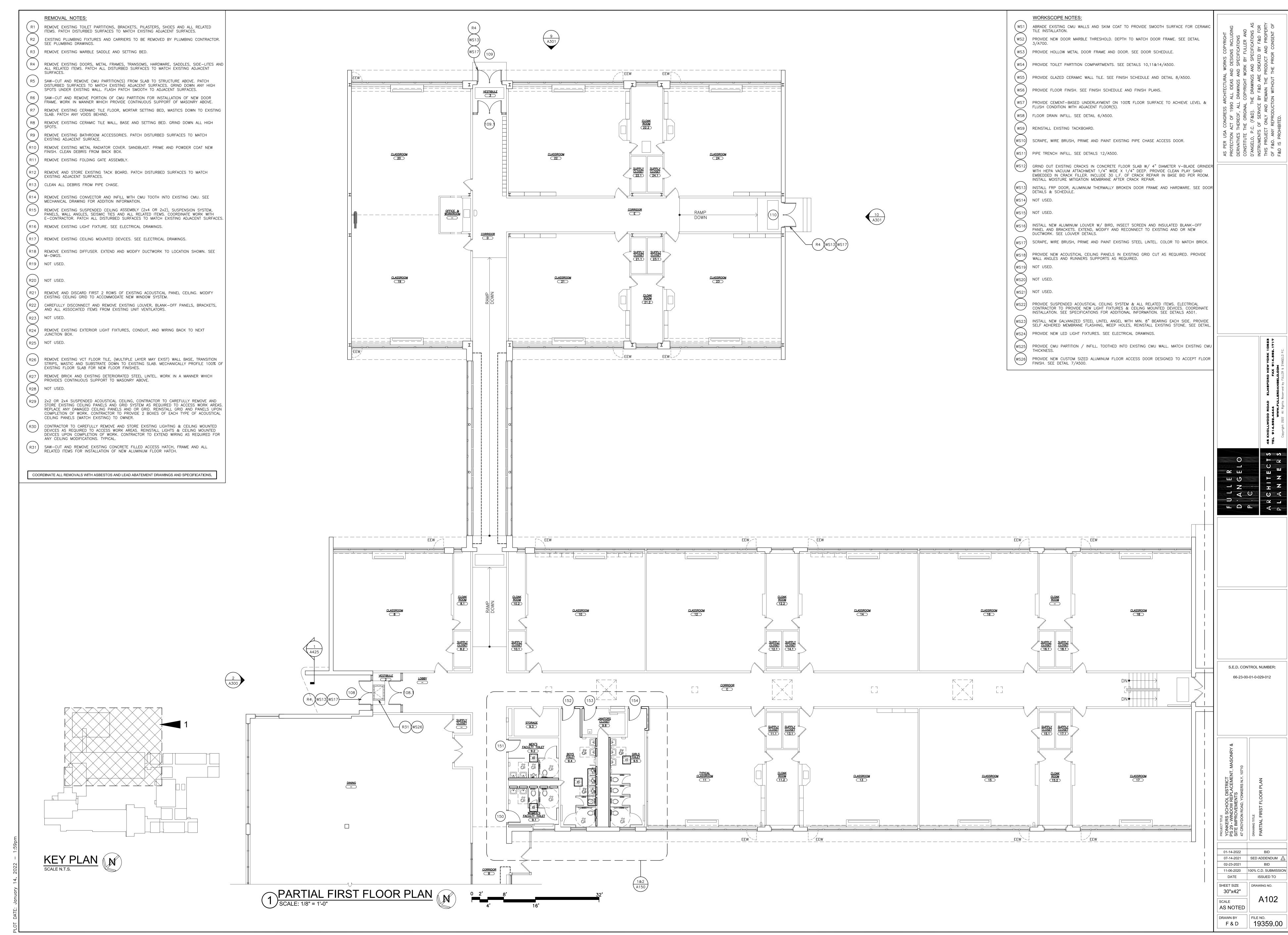
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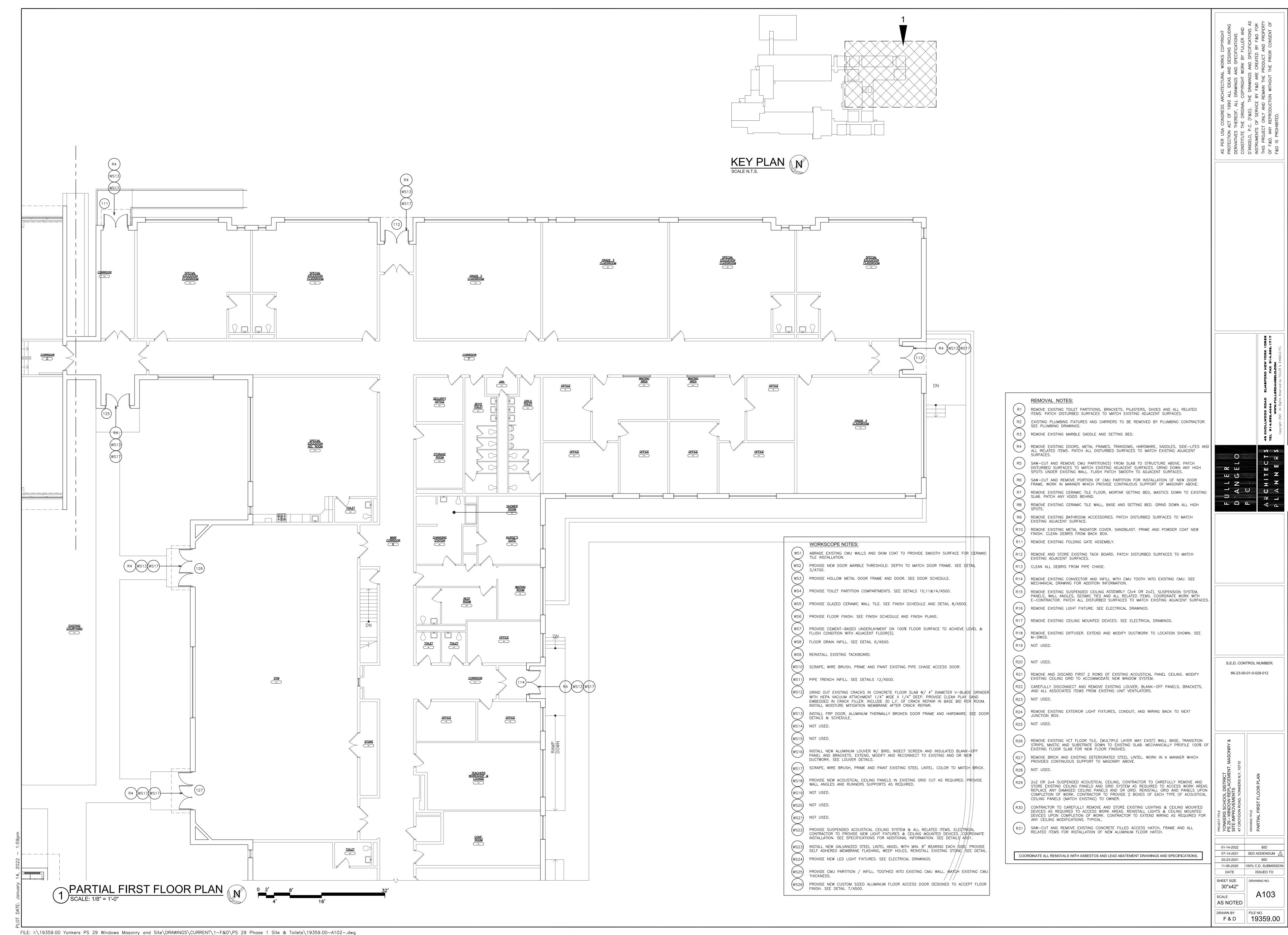
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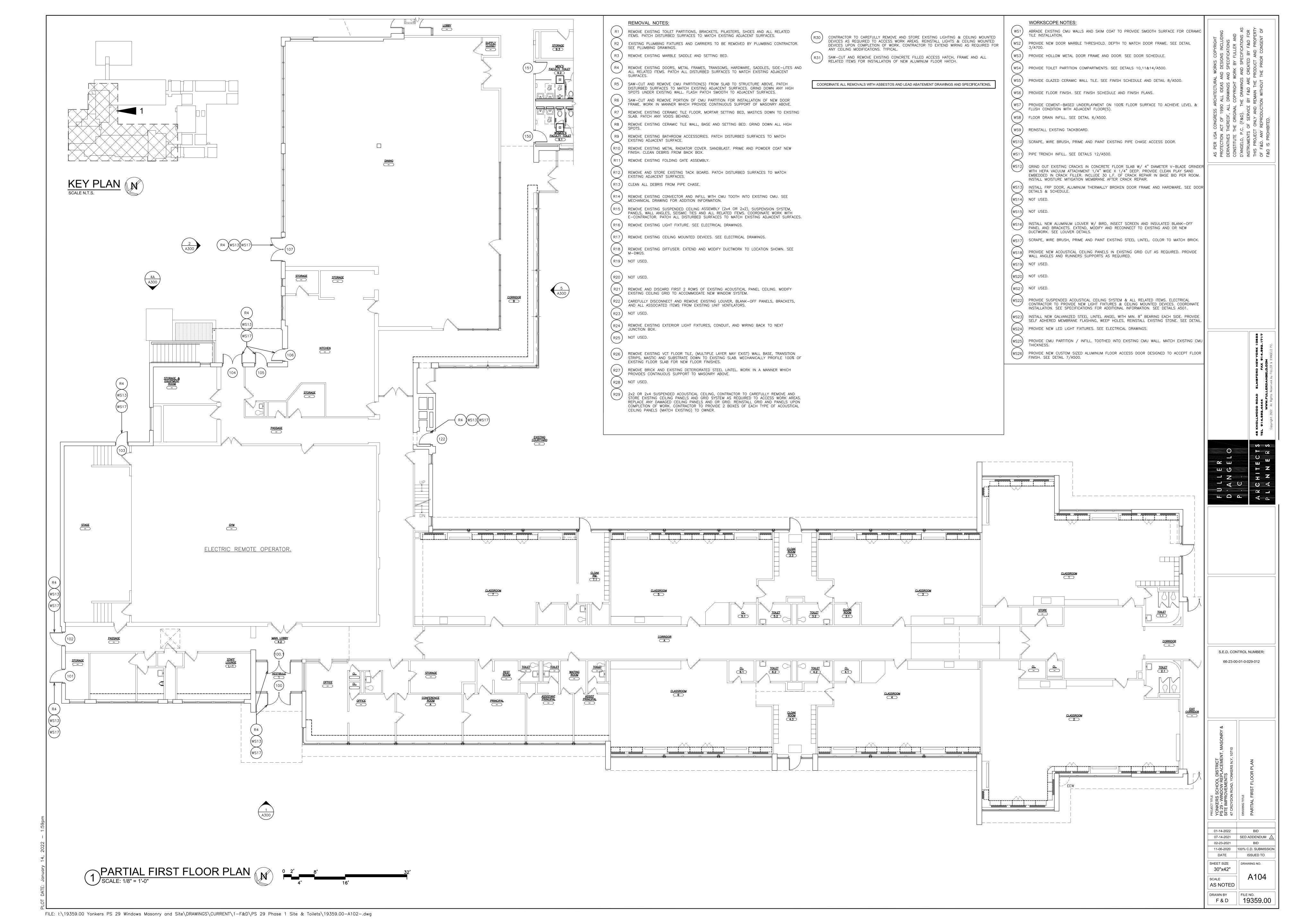
ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR

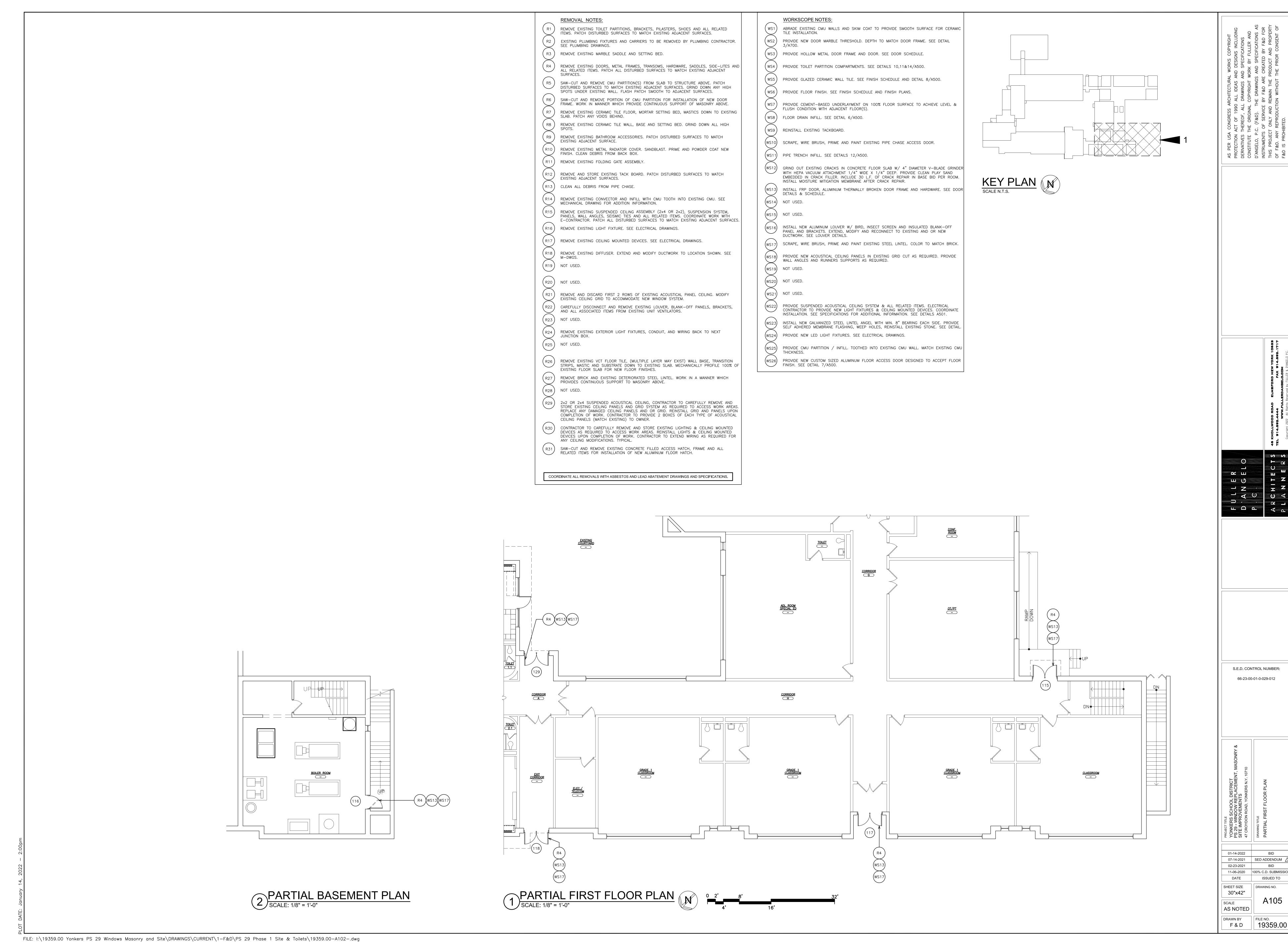


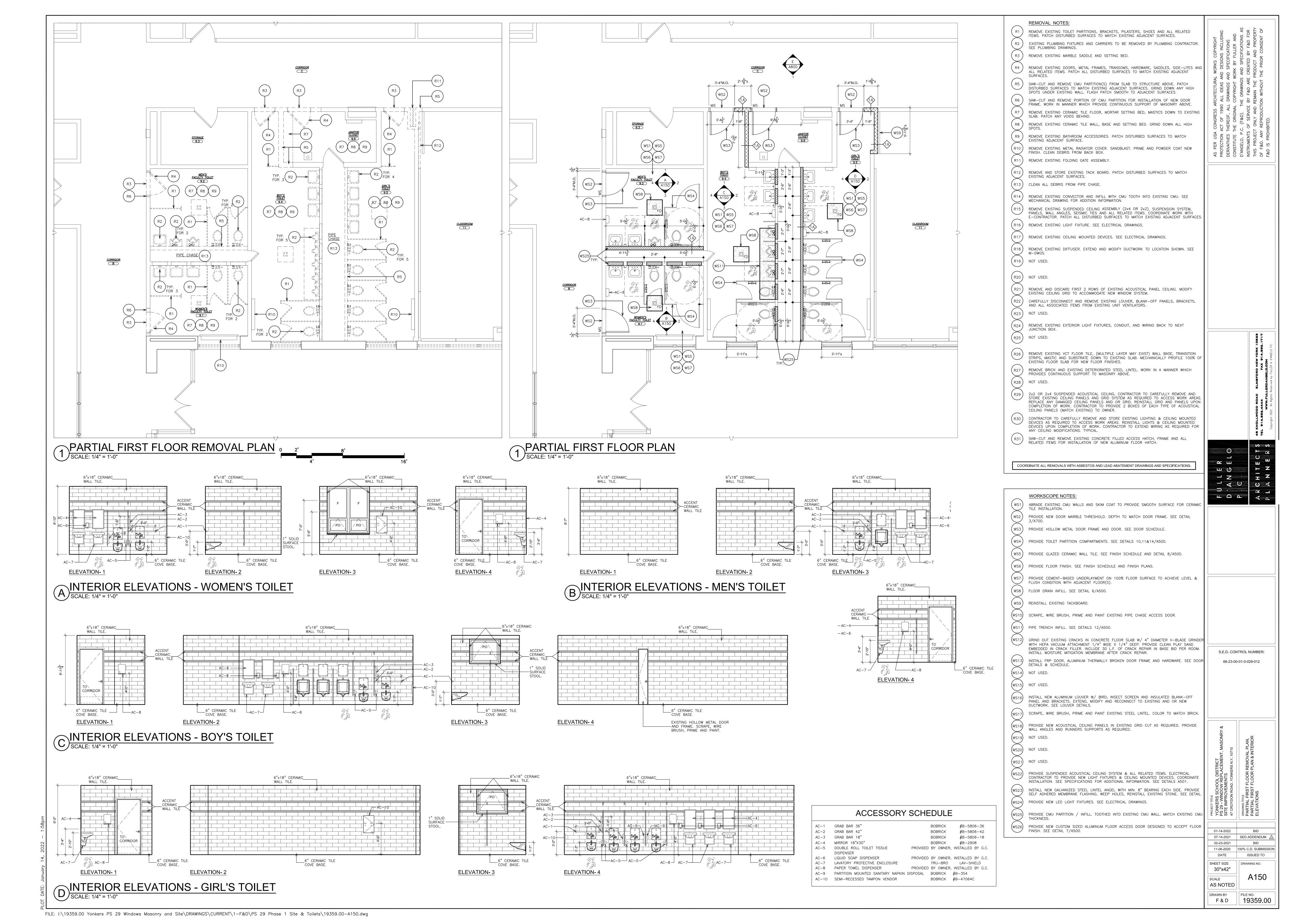


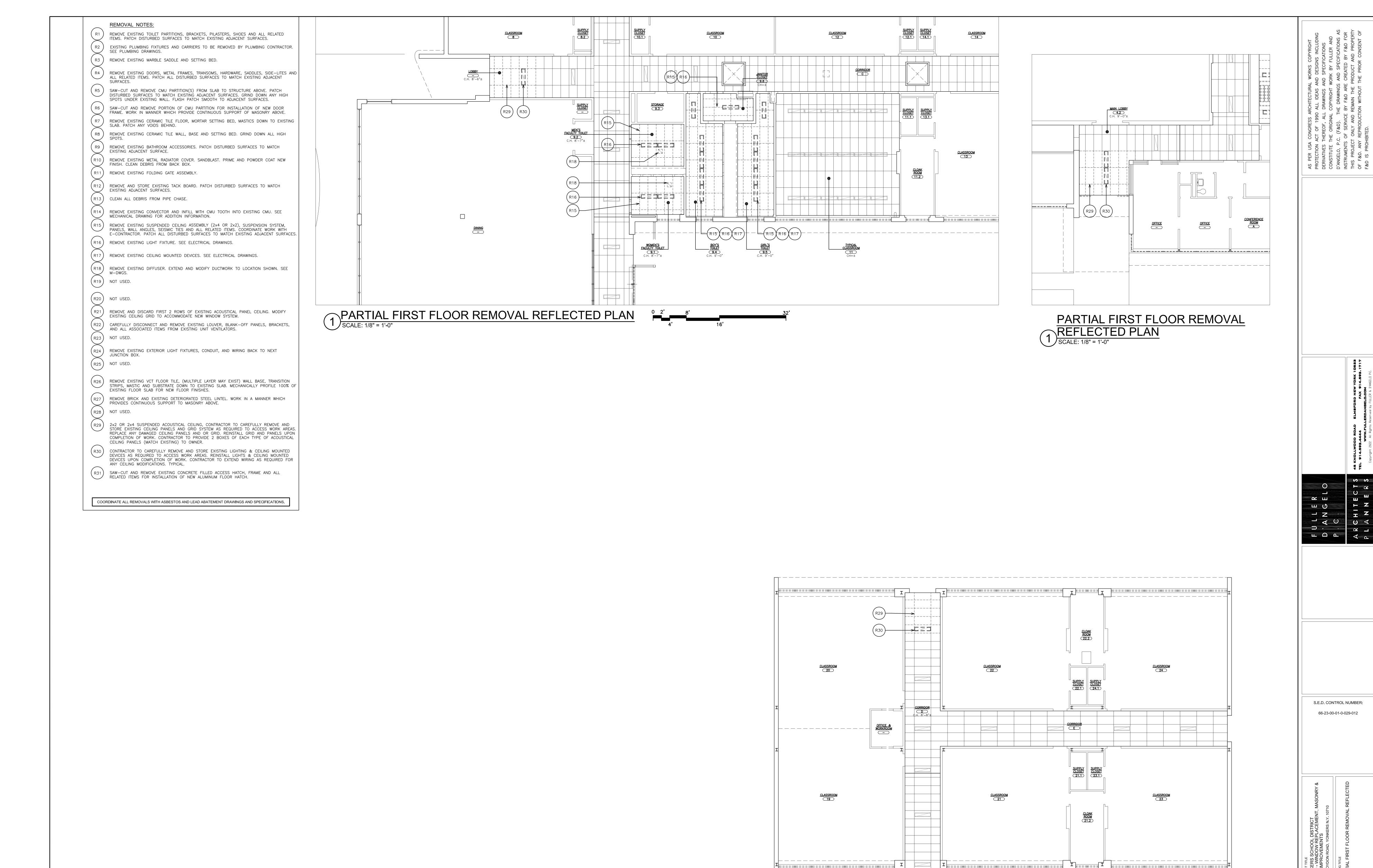












PARTIAL FIRST FLOOR REMOVAL REFLECTED PLAN

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

01-14-2022

DATE

SHEET SIZE 30"x42"

AS NOTED

DRAWN BY

F&D

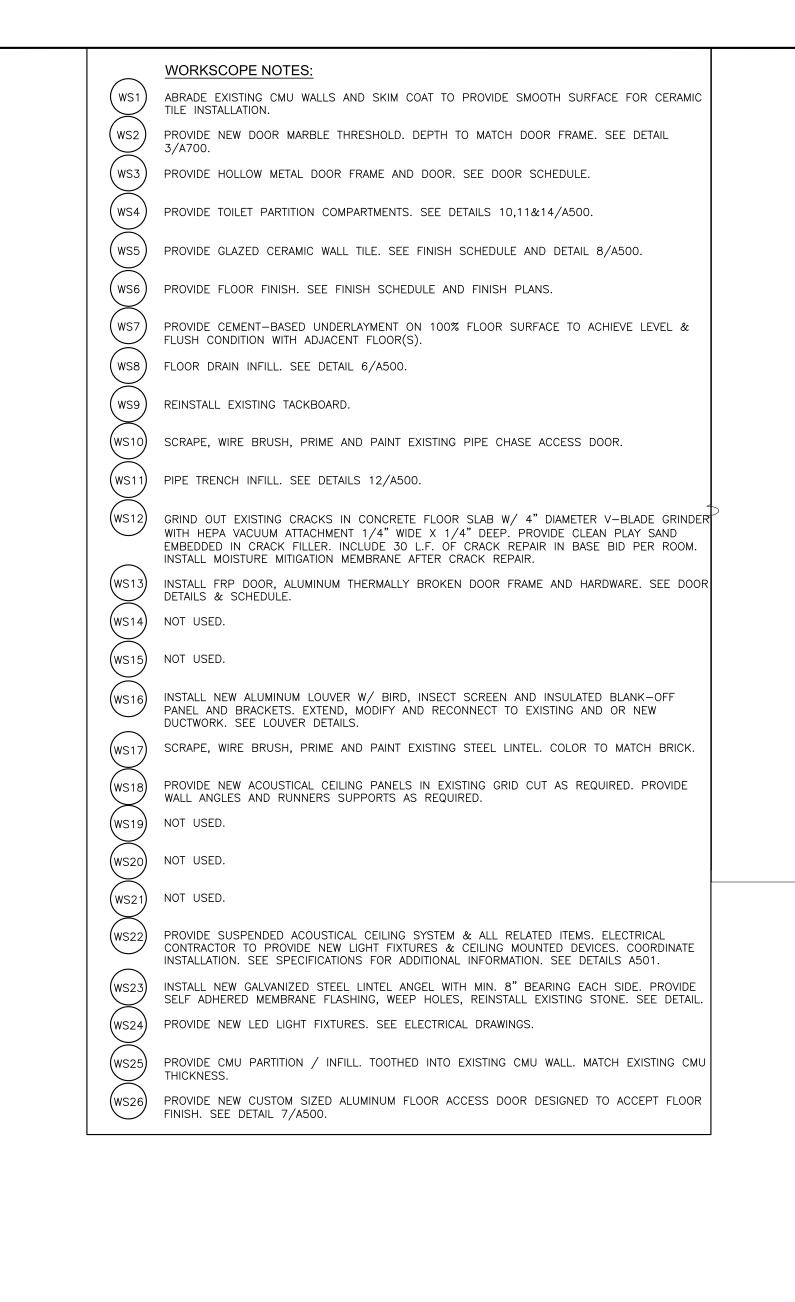
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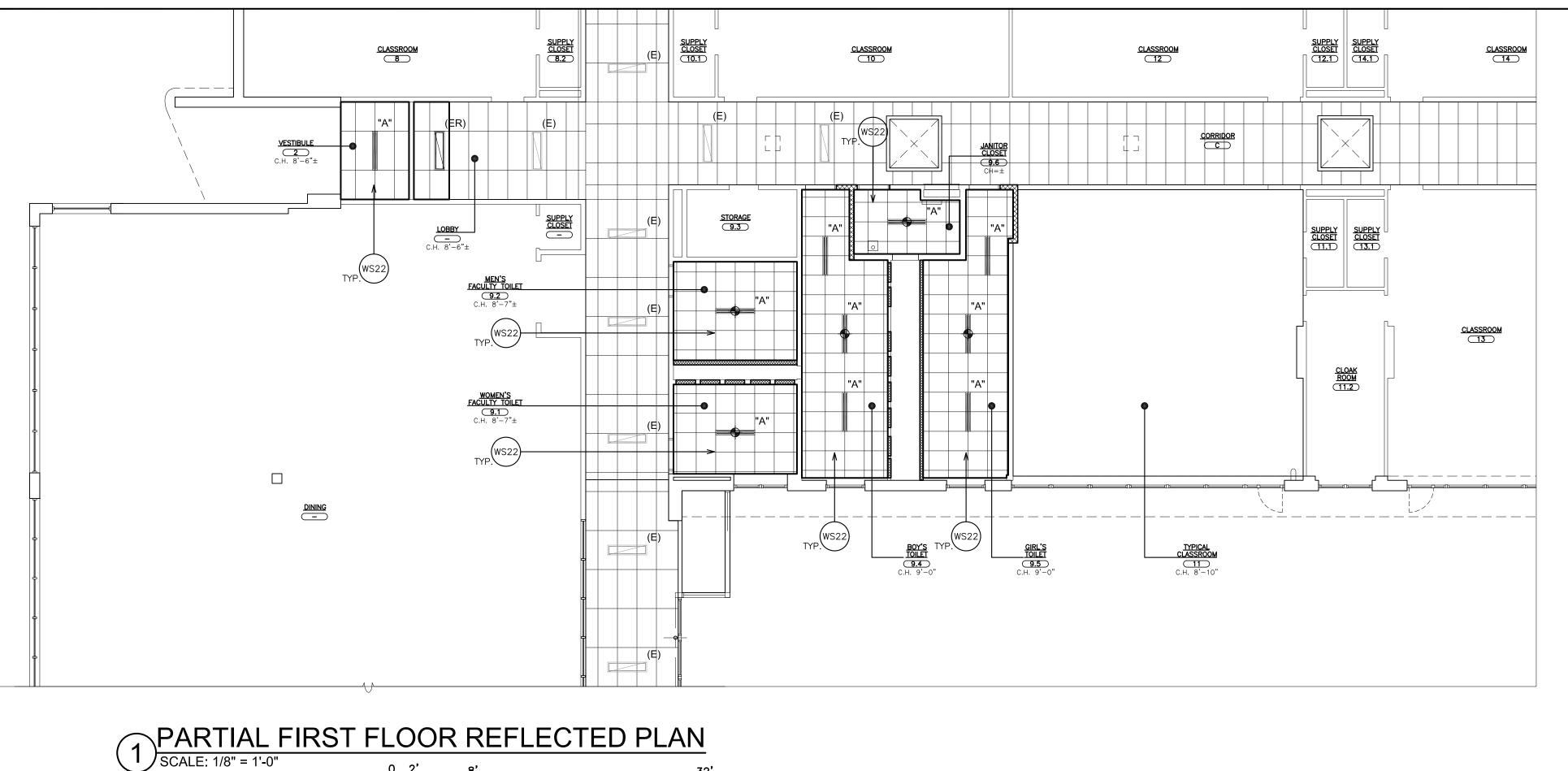
11-06-2020 100% C.D. SUBMISSION

ISSUED TO

19359.00

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**CEILING LEGEND** 

6"x4' RECESSED MOUNTED LIGHT FIXTURE

SECURITY CAMERA

MOTION SENSOR

HEAT DETECTOR

CEILING SPEAKER

OCCUPANCY SENSOR

DIRECTIONAL ARROW

DIRECTIONAL ARROW

GYPSUM BOARD OR SOFFIT

FIRE ALARM SMOKE DETECTOR

CEILING REGISTER. SIZE VARIES. SEE MECHANICAL DRAWINGS.

CEILING DIFFUSER. SIZE VARIES. SEE MECHANICAL DRAWINGS.

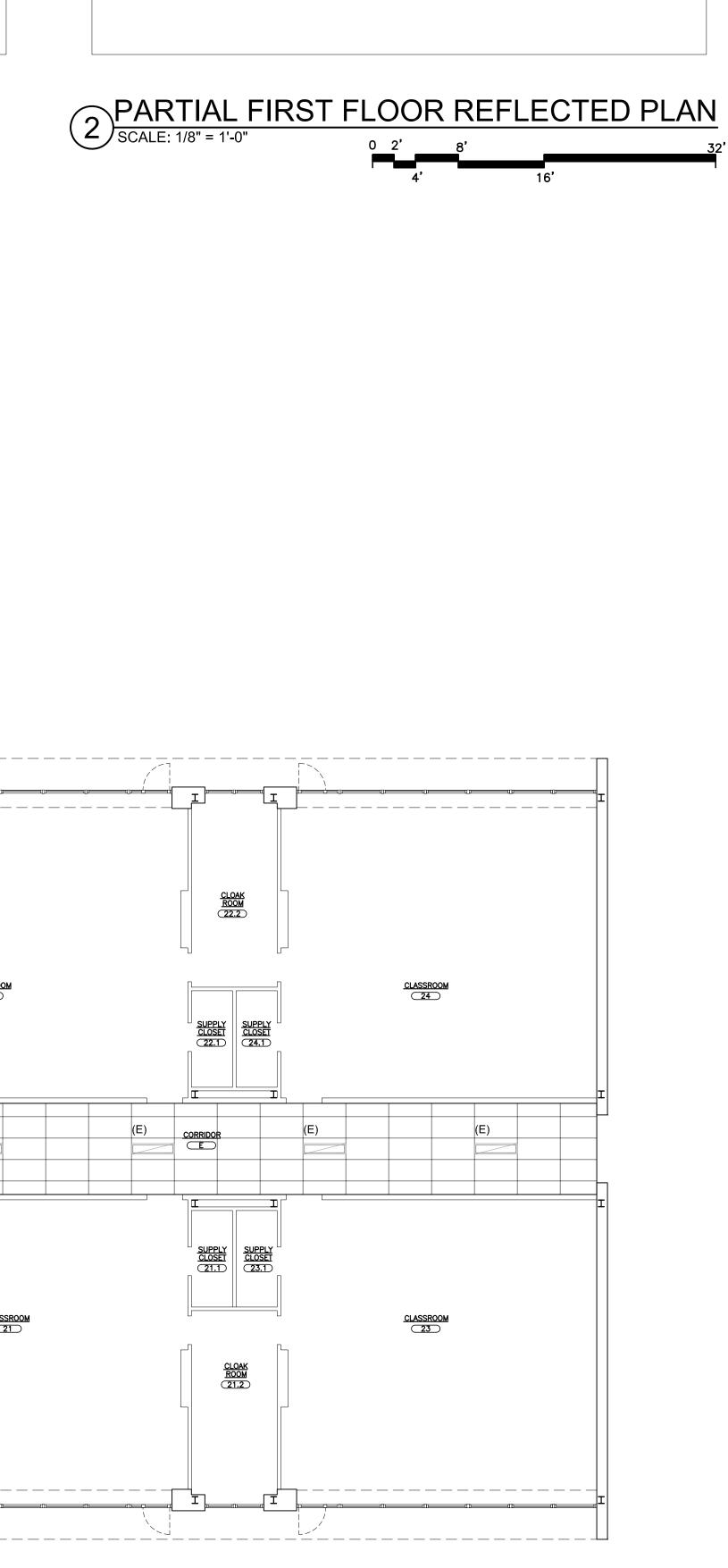
WALL MOUNTED EXIT SIGN W/

CEILING GRID STARTING POINT

WIRELESS INTERNET HUB

1'x1' SURFACE MOUNTED LIGHT

WALL MOUNTED LIGHT FIXTURE.



S.E.D. CONTROL NUMBER:

66-23-00-01-0-029-012

01-14-2022

DATE

SHEET SIZE 30"x42"

AS NOTED

DRAWN BY

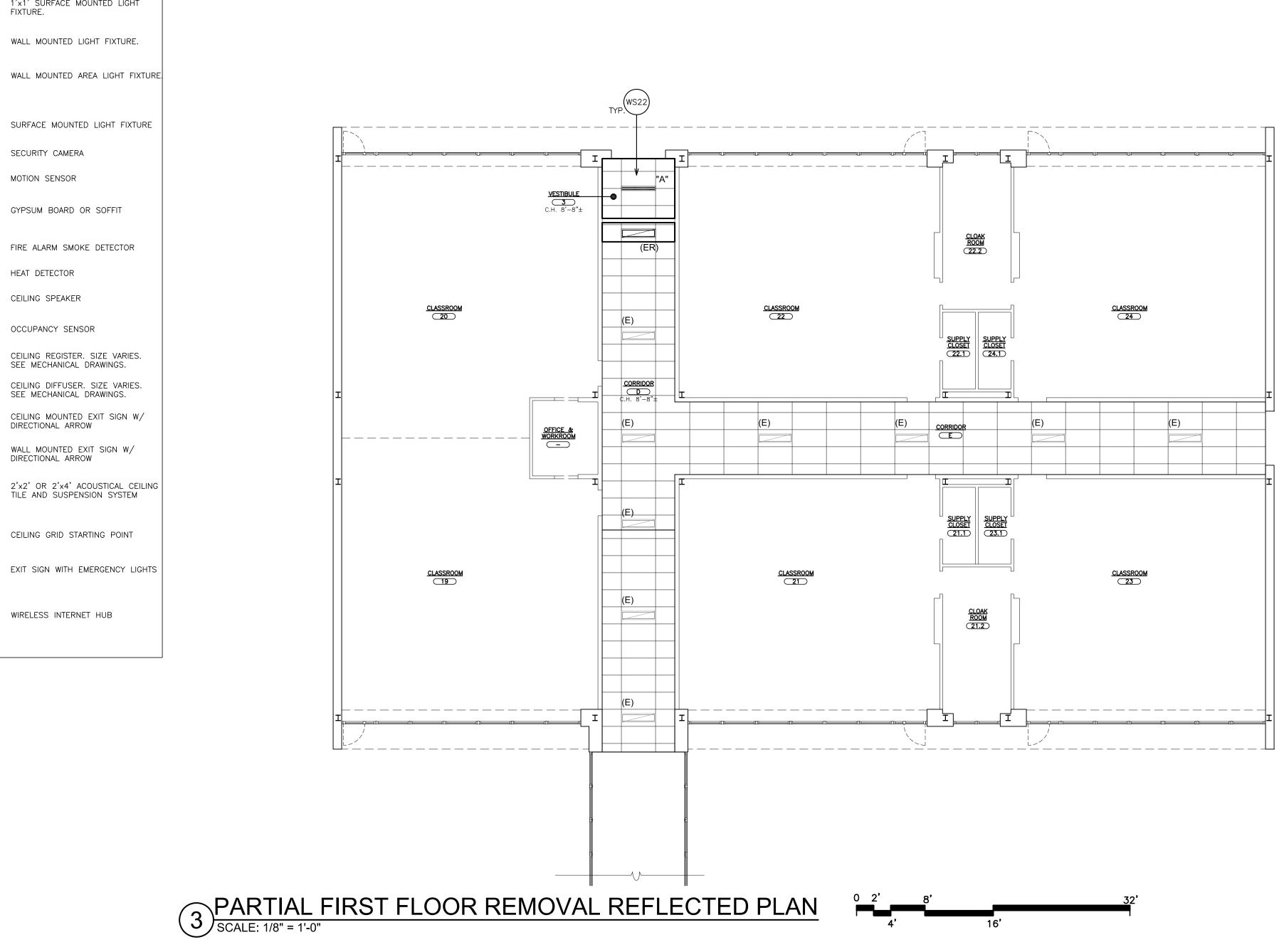
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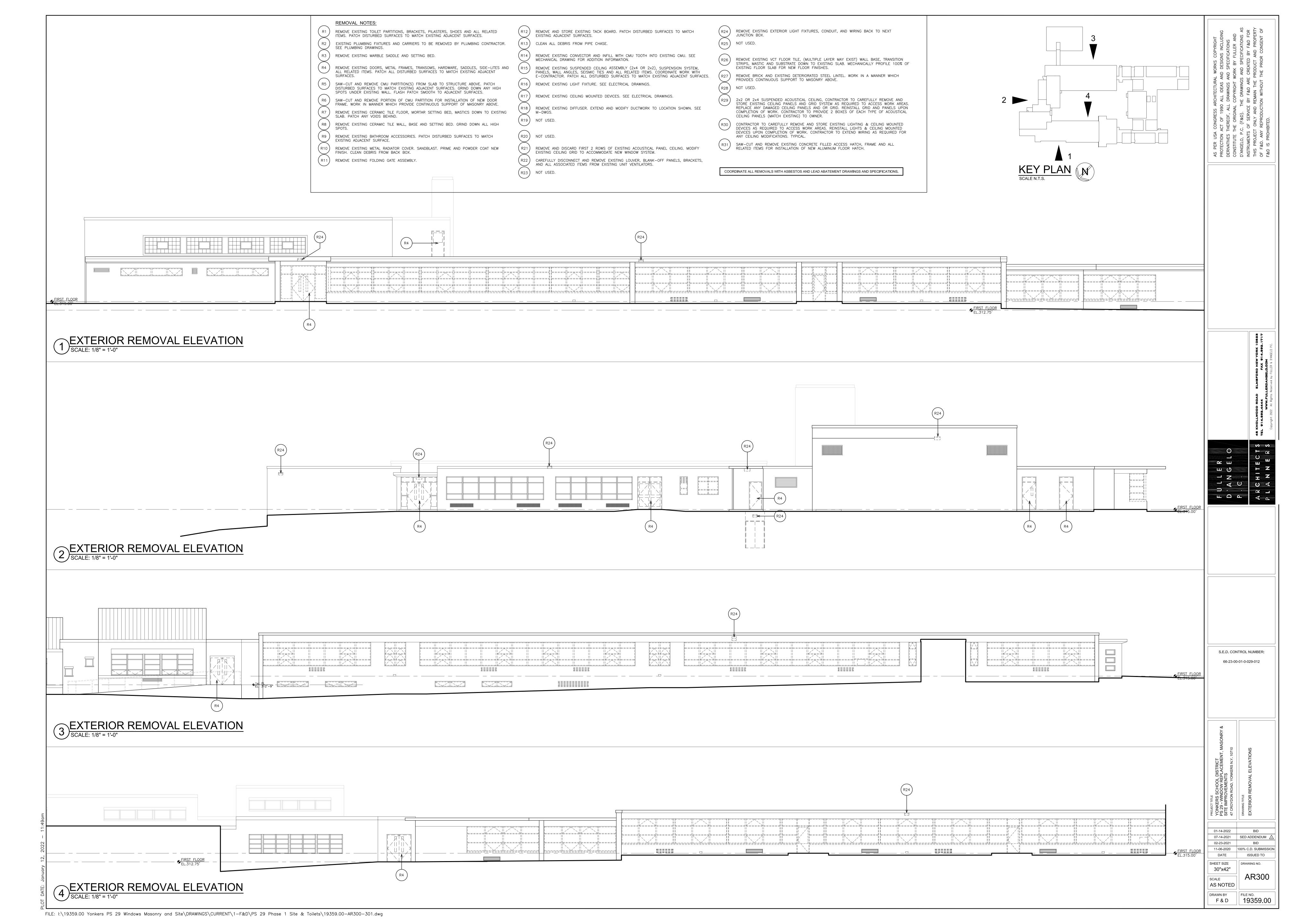
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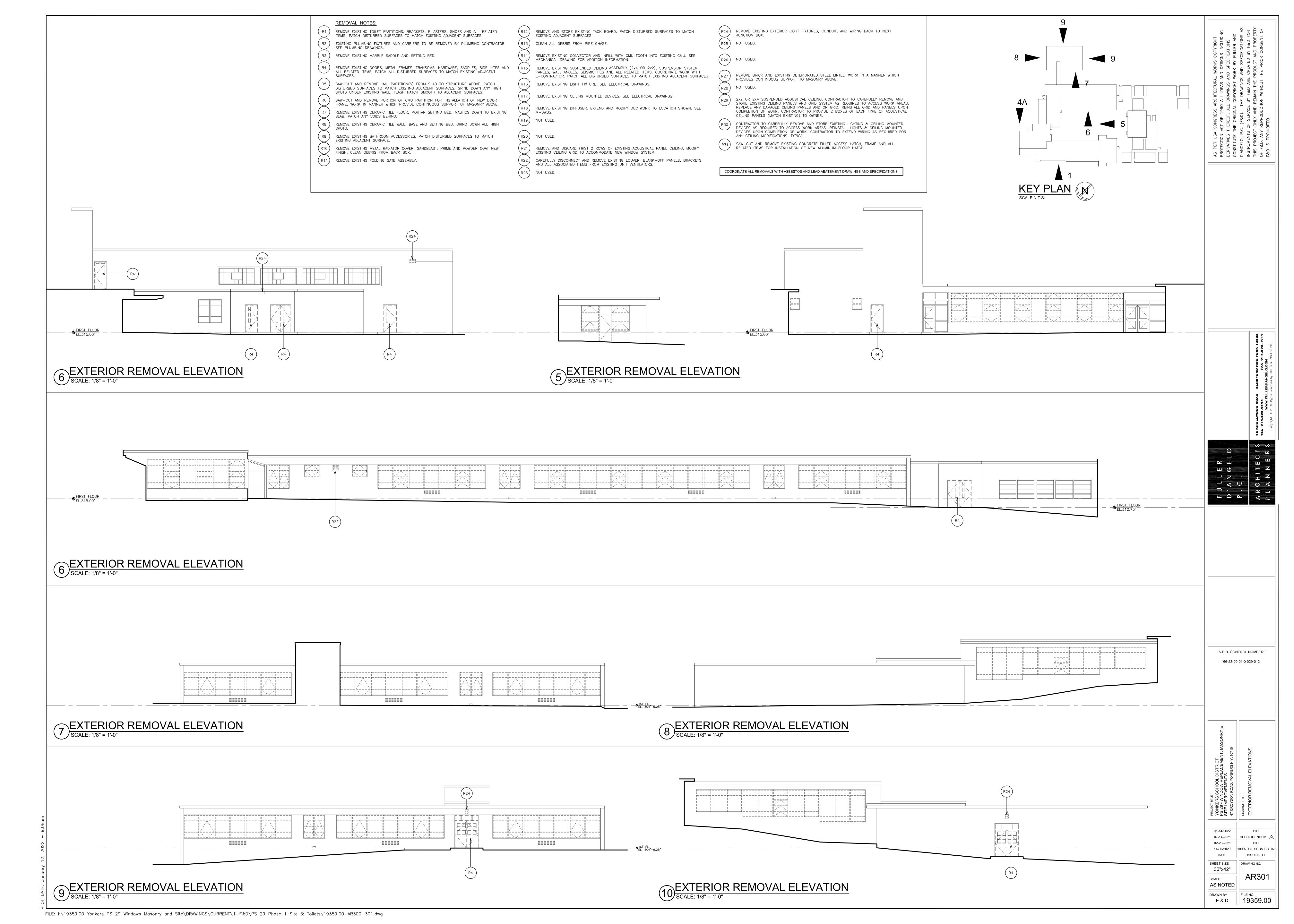
11-06-2020 100% C.D. SUBMISSION

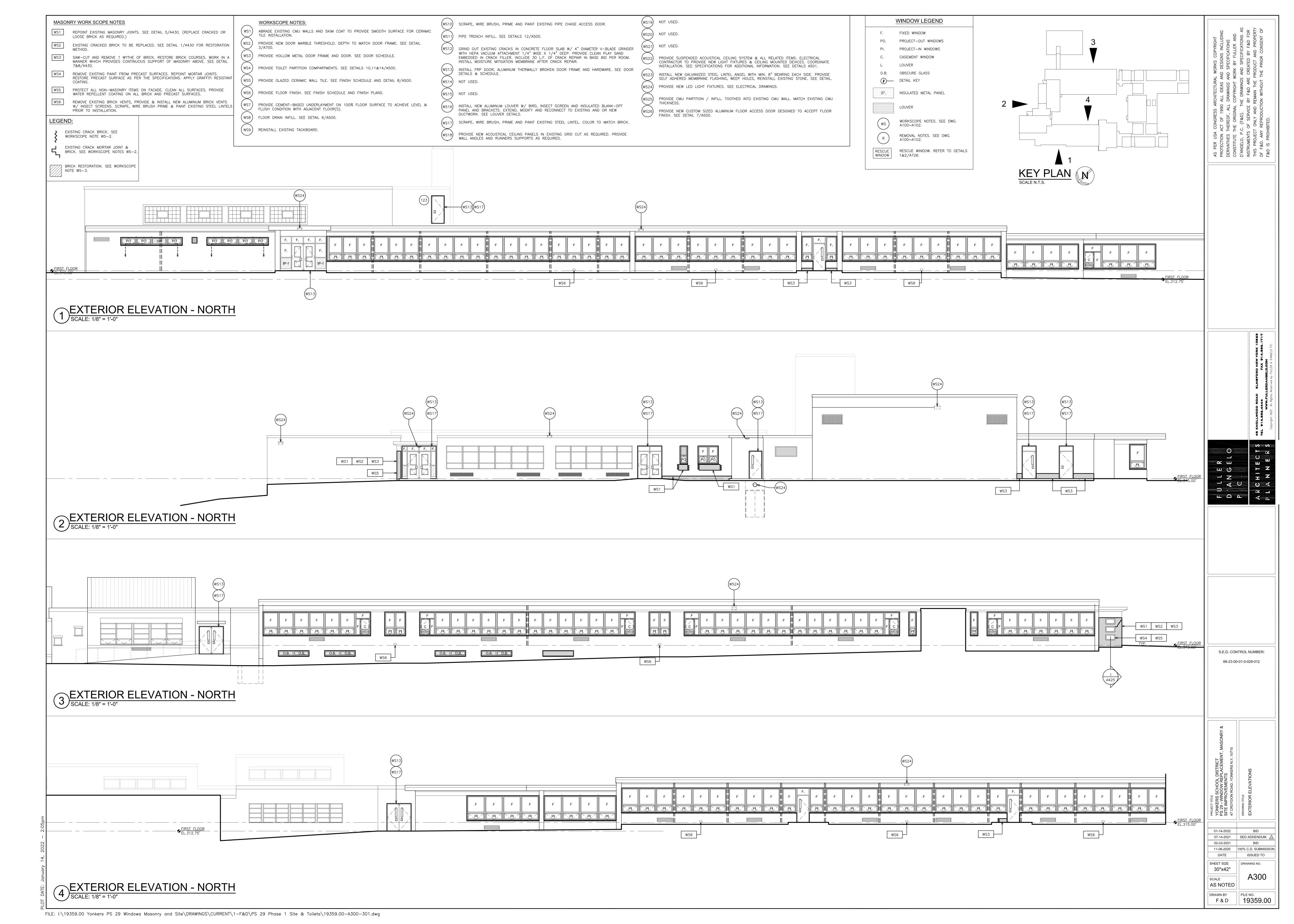
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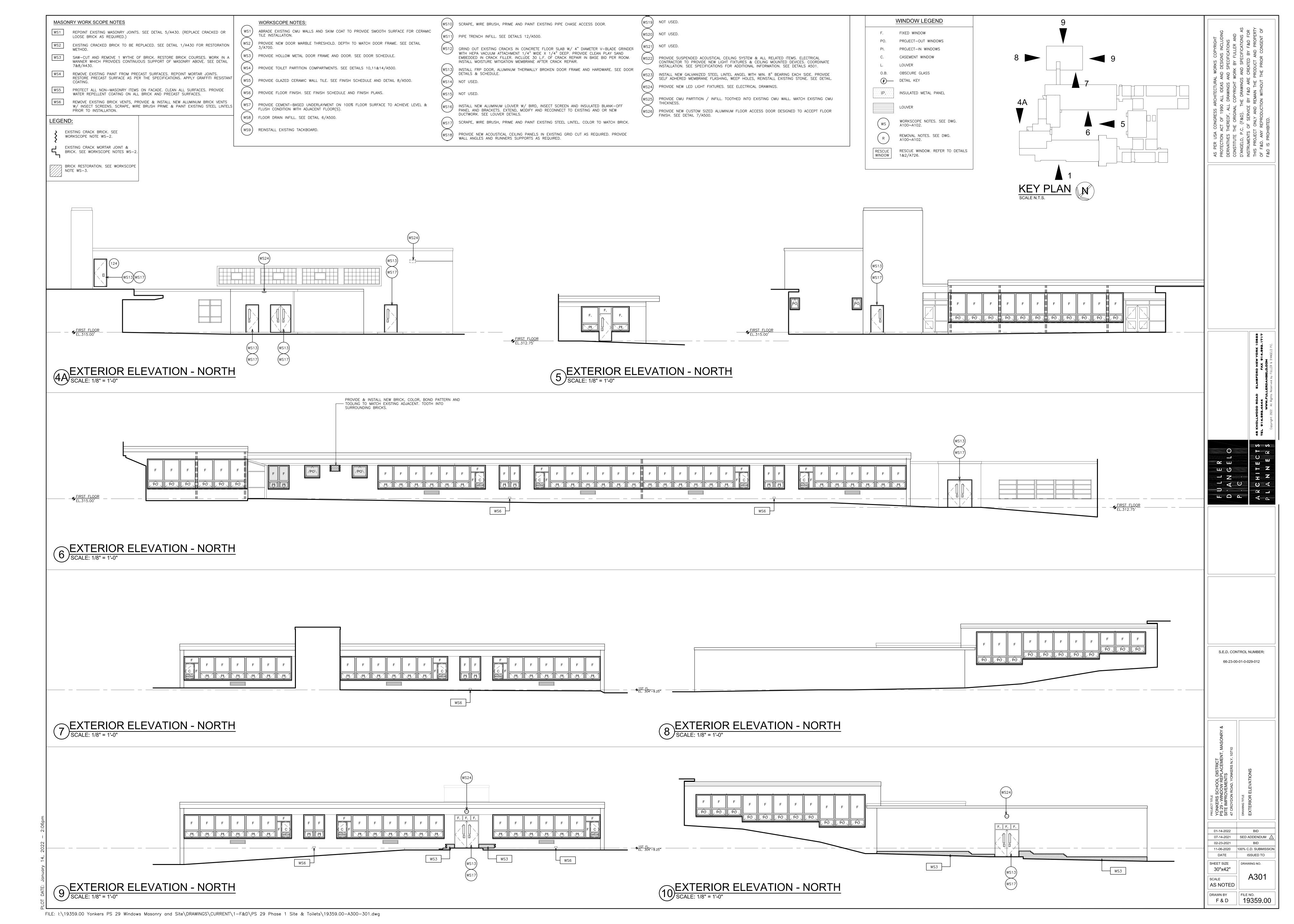
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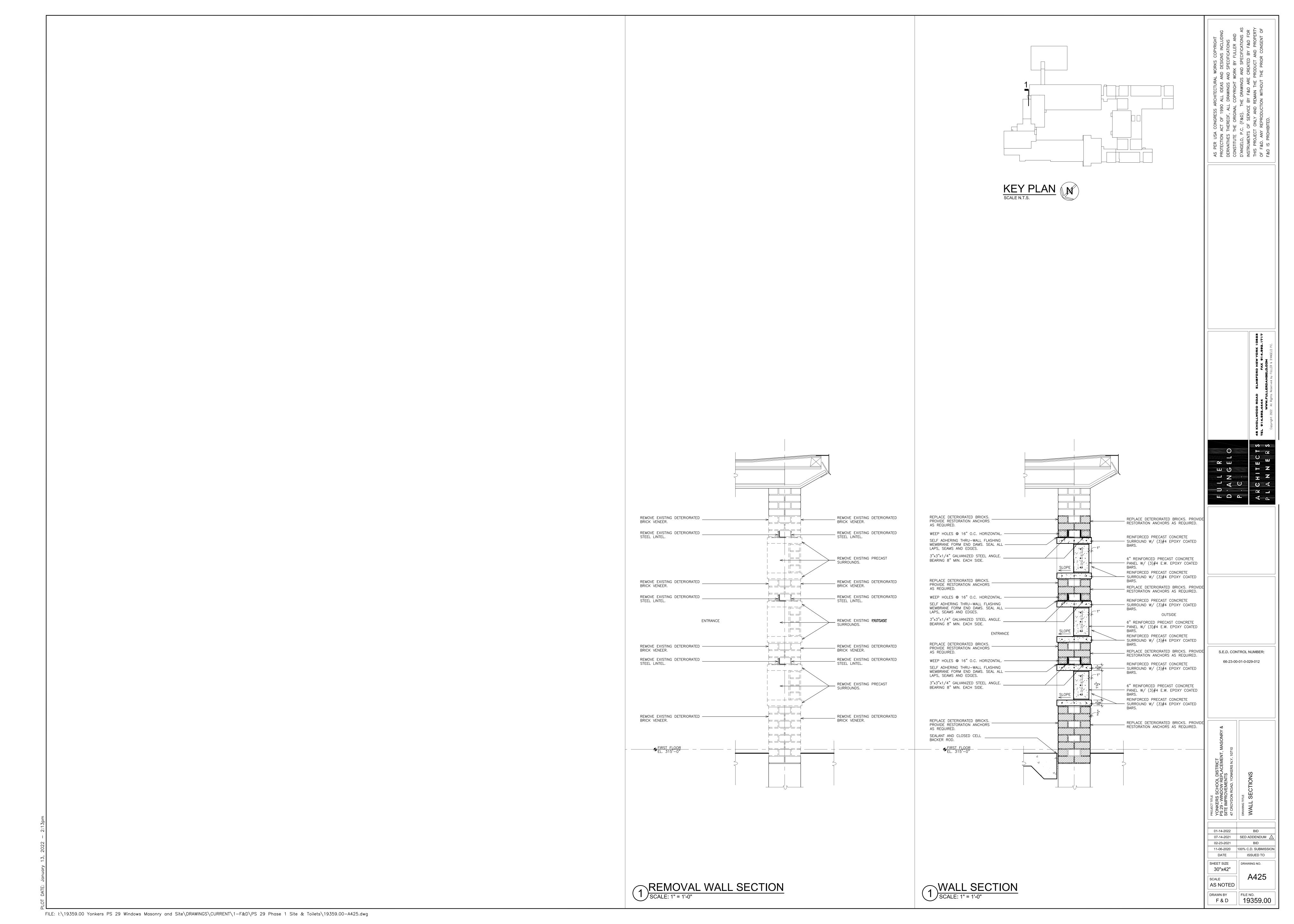


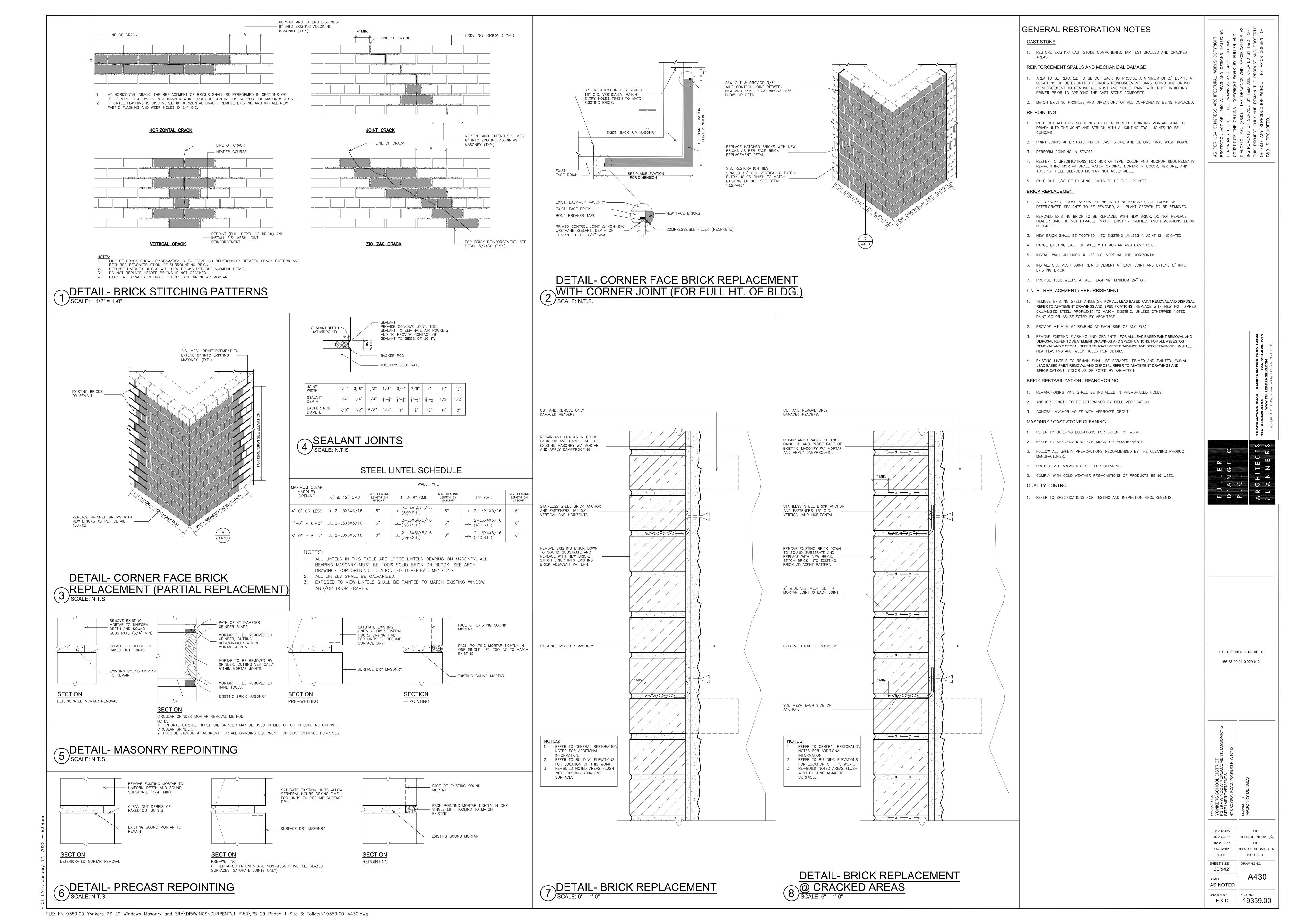


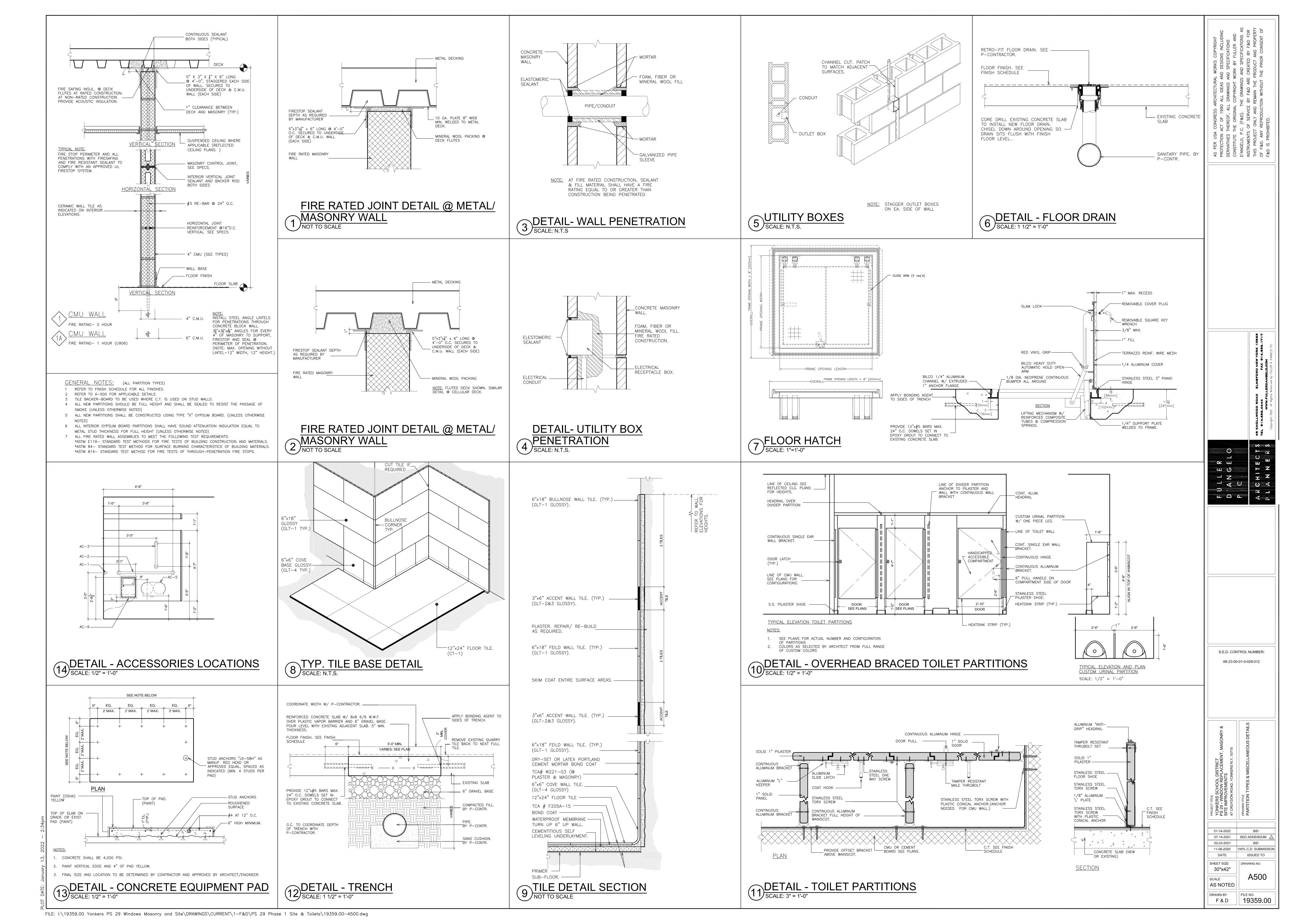


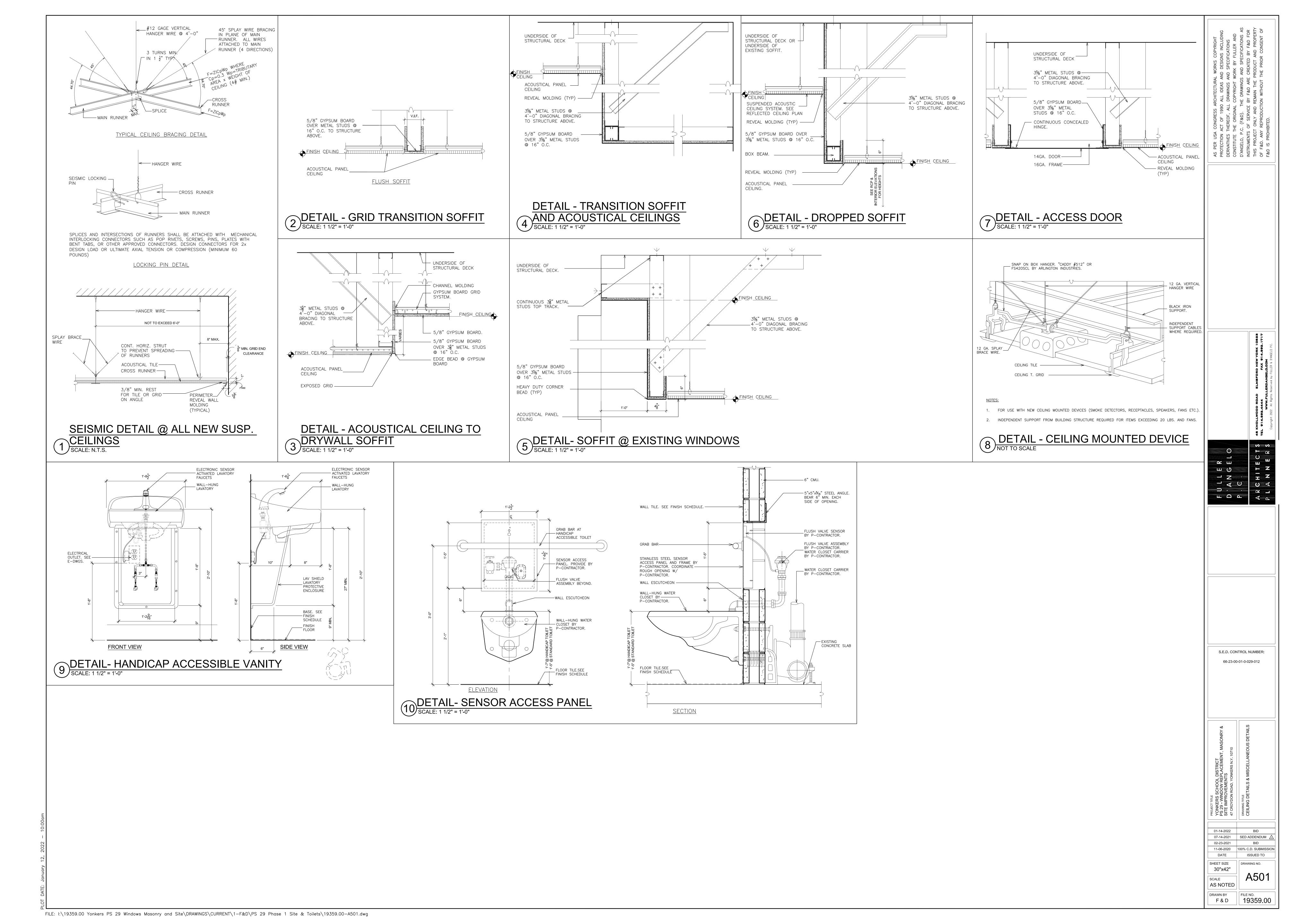


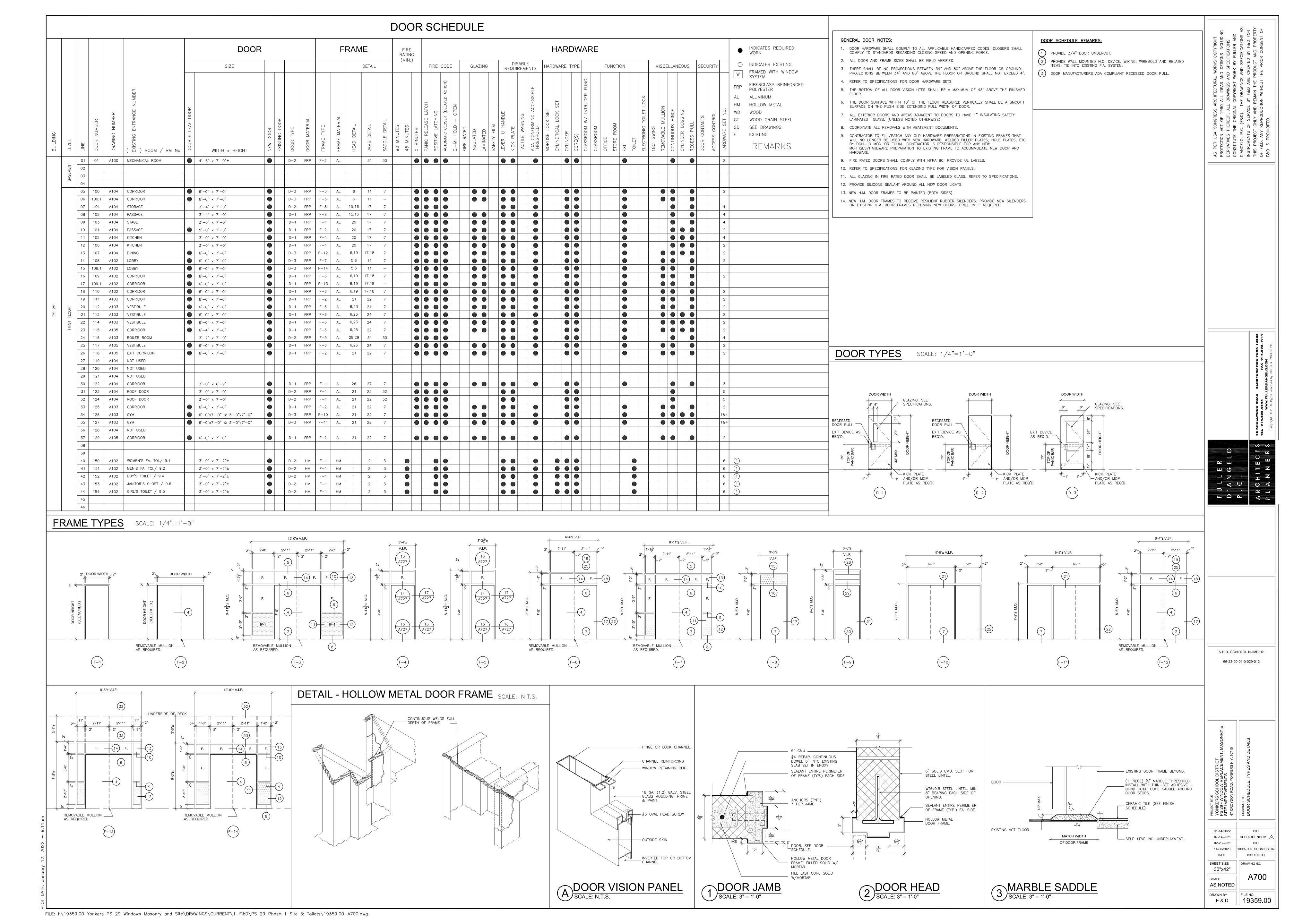


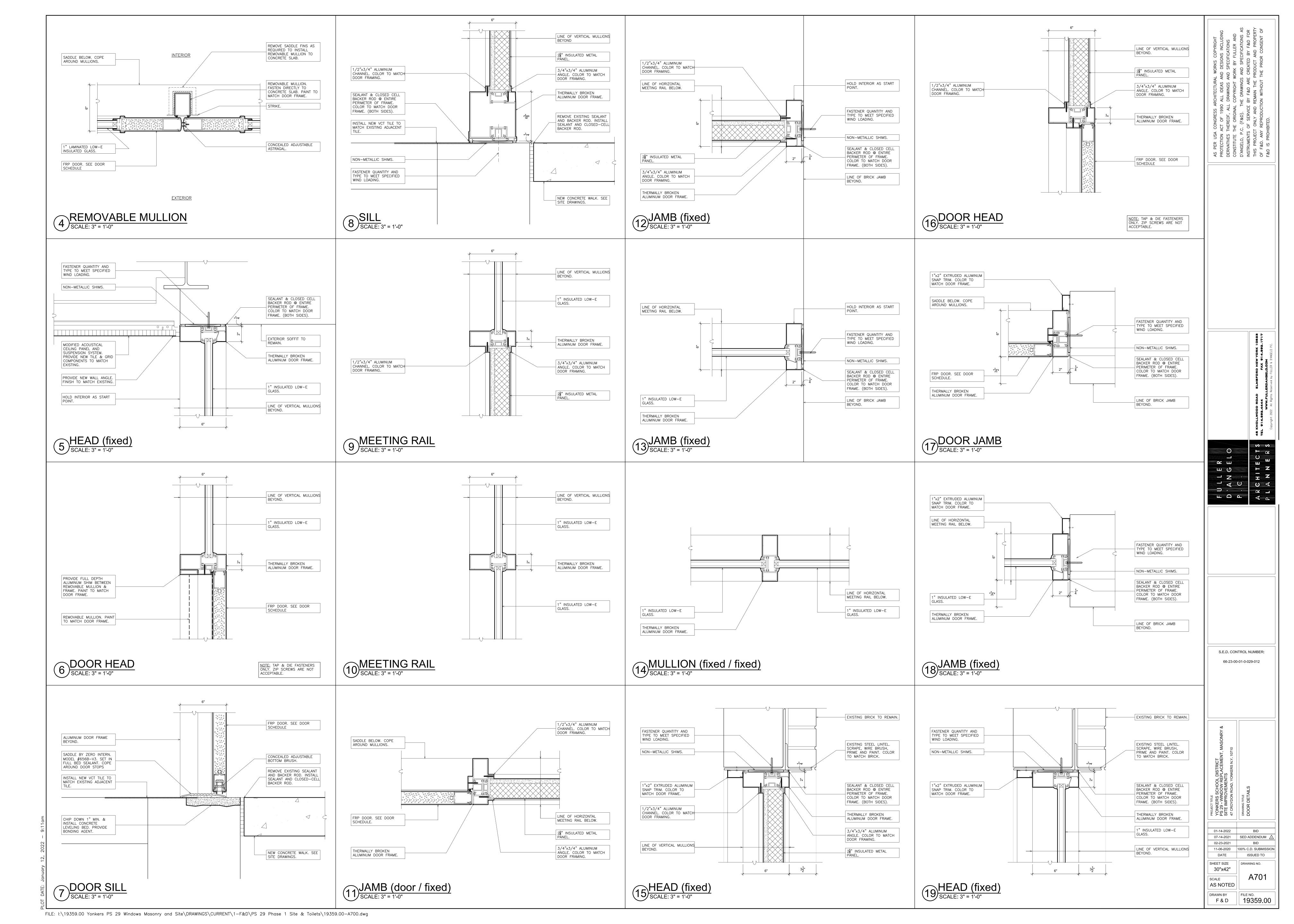


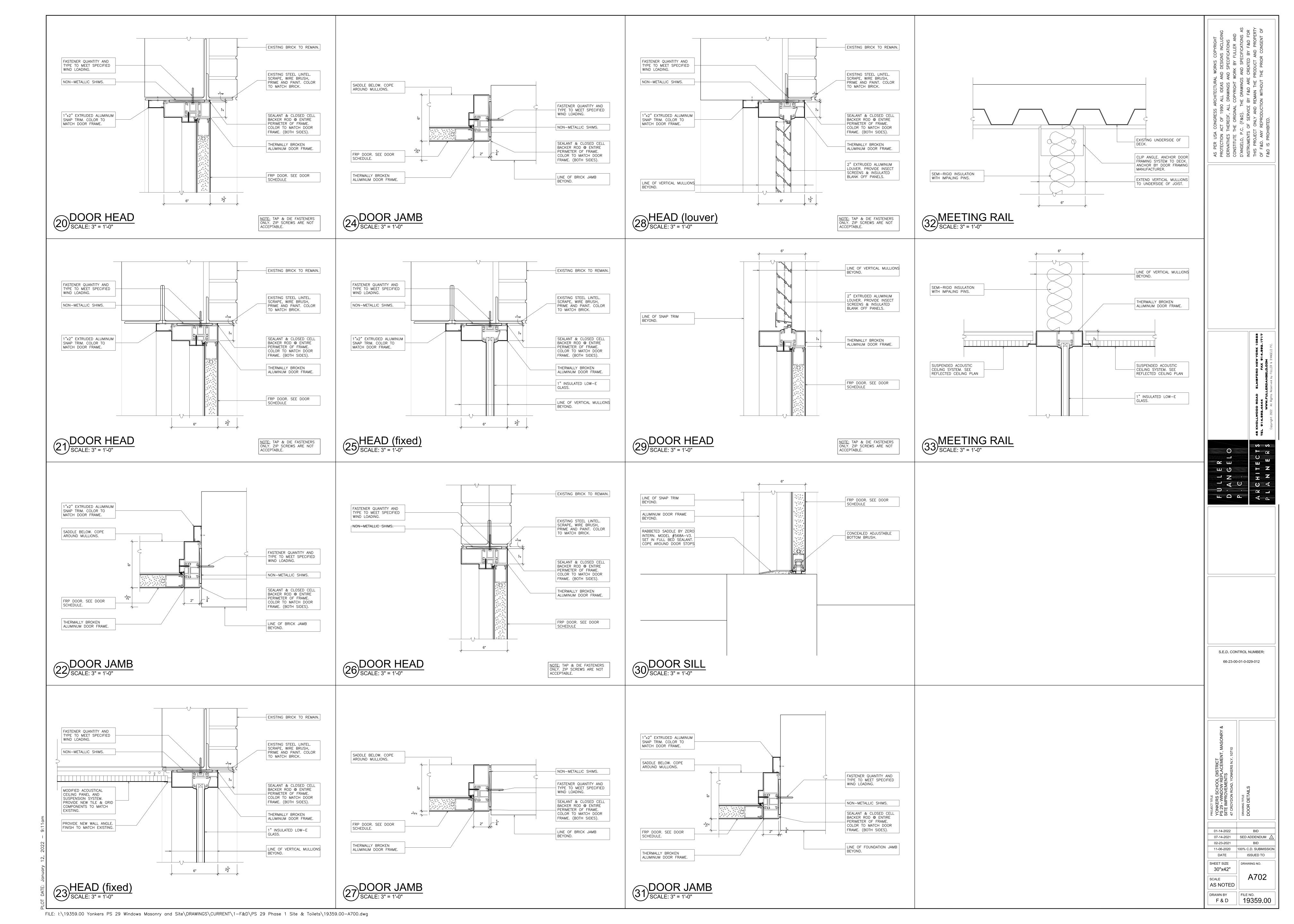


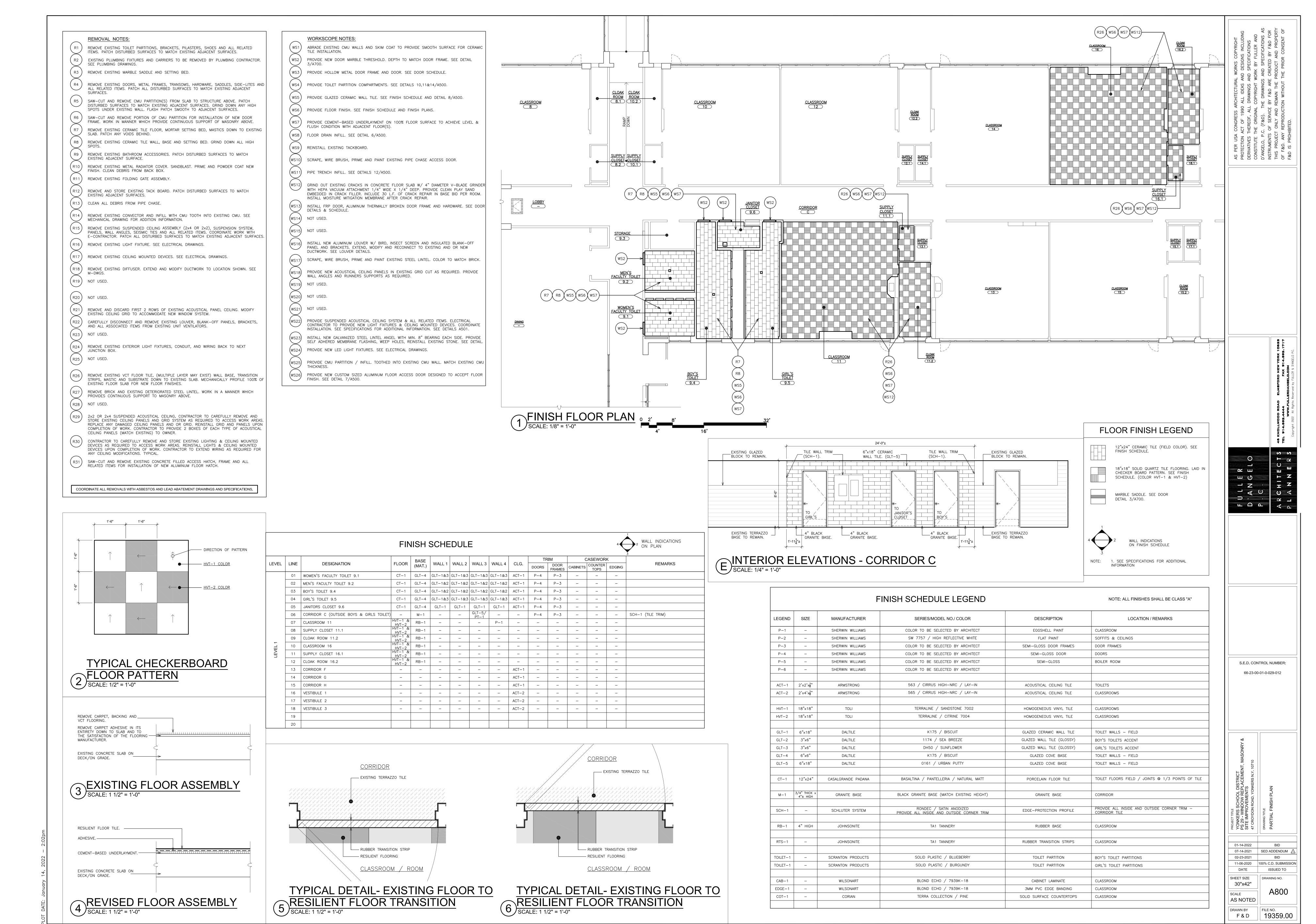




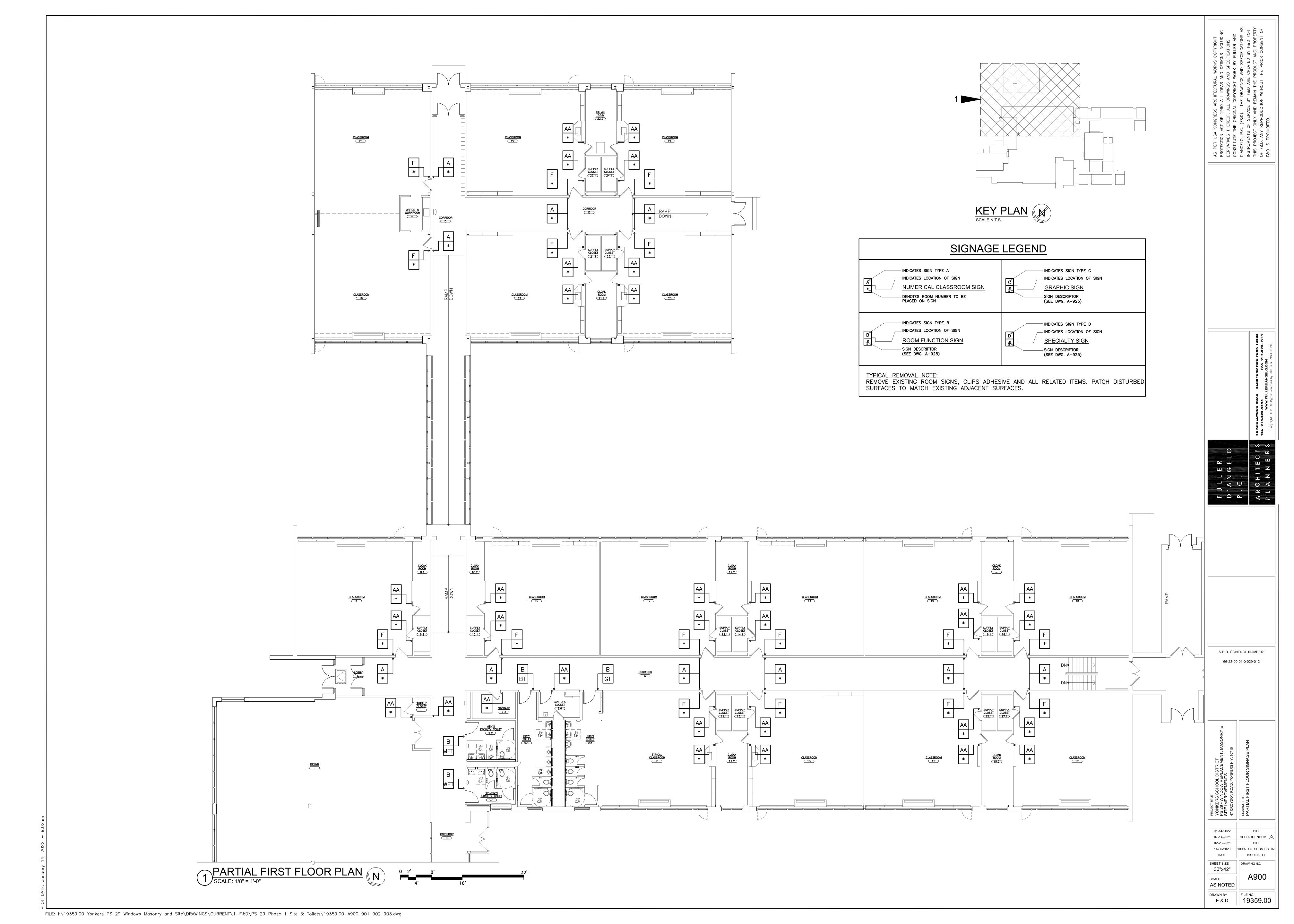


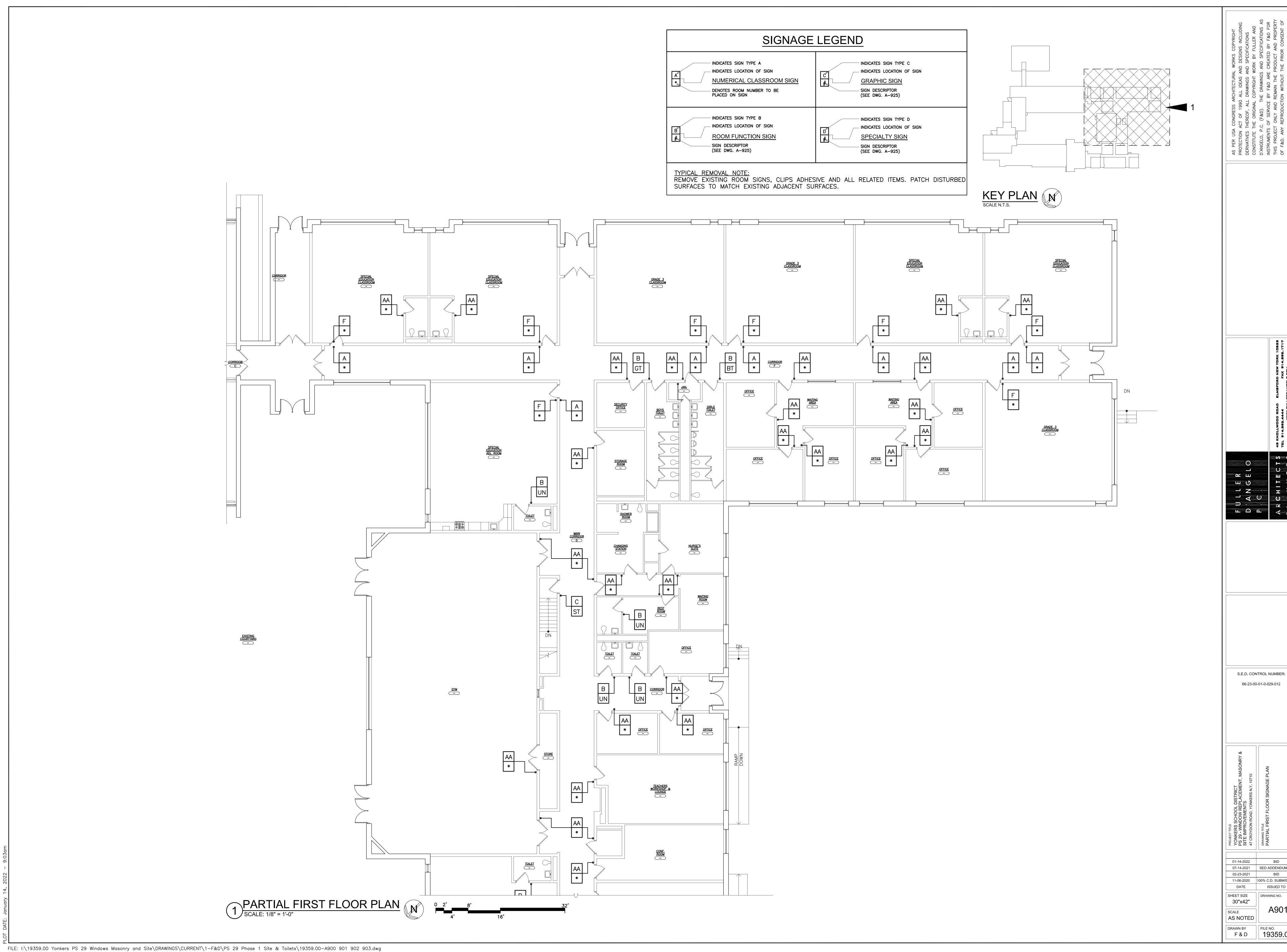






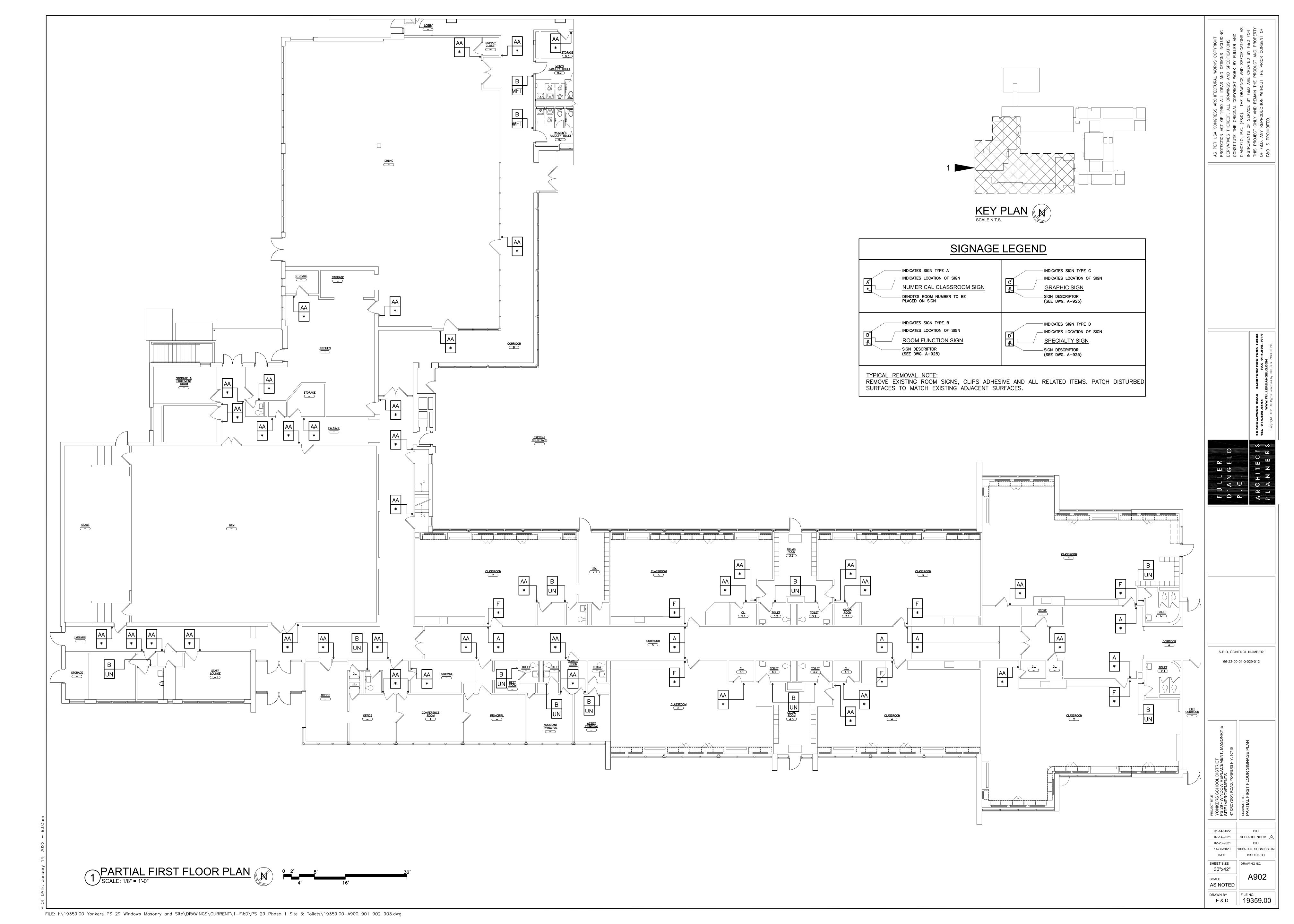
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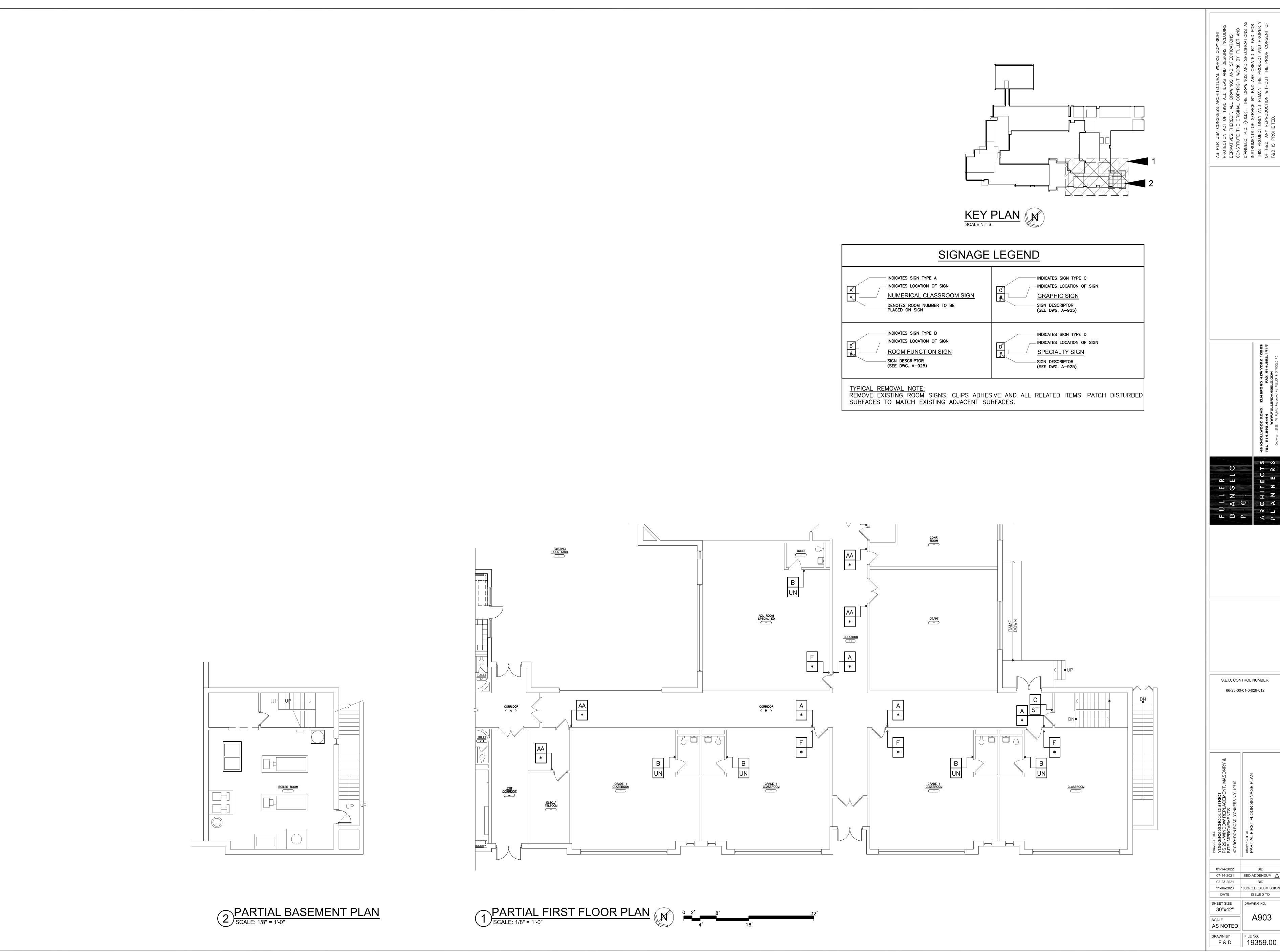




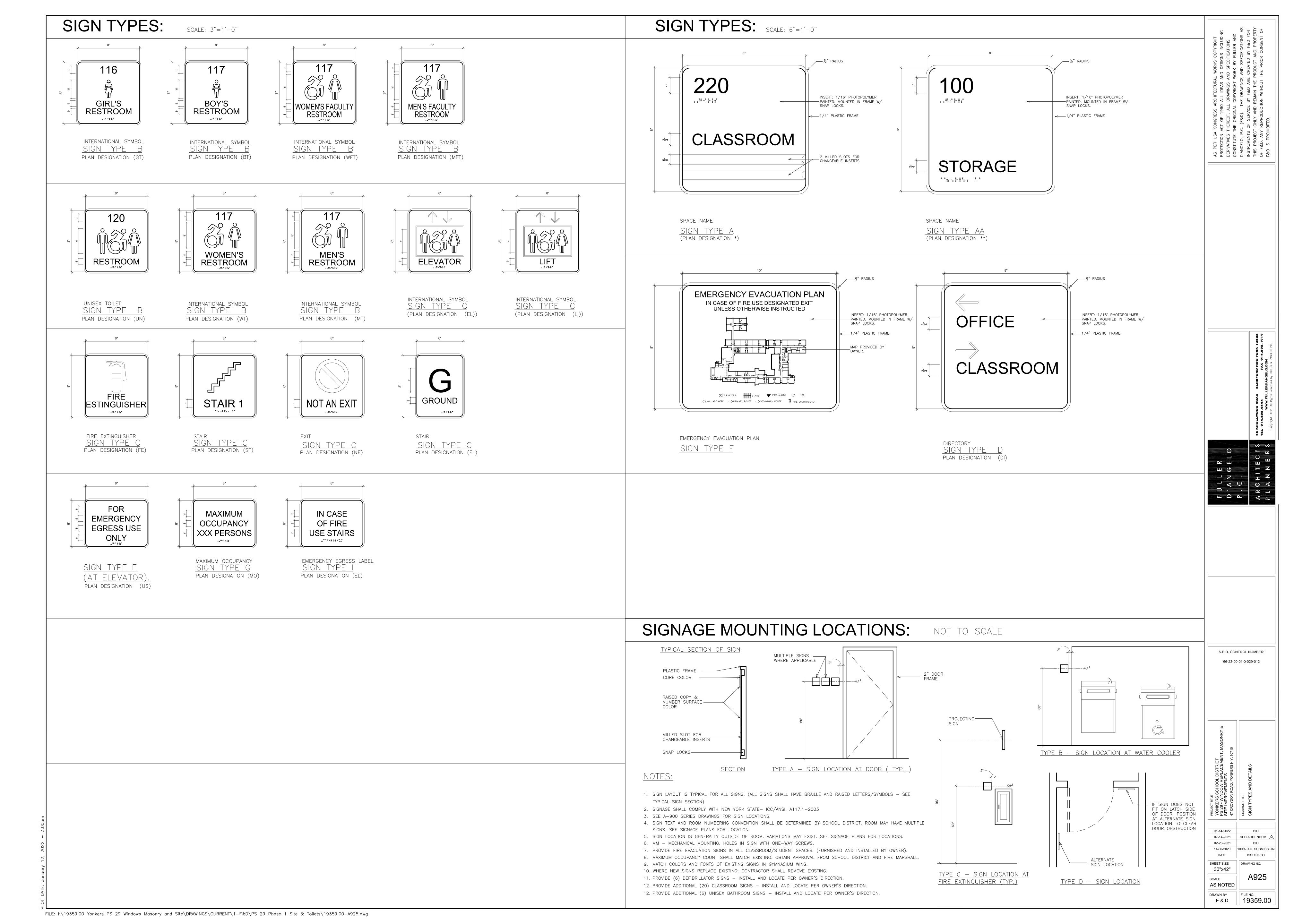
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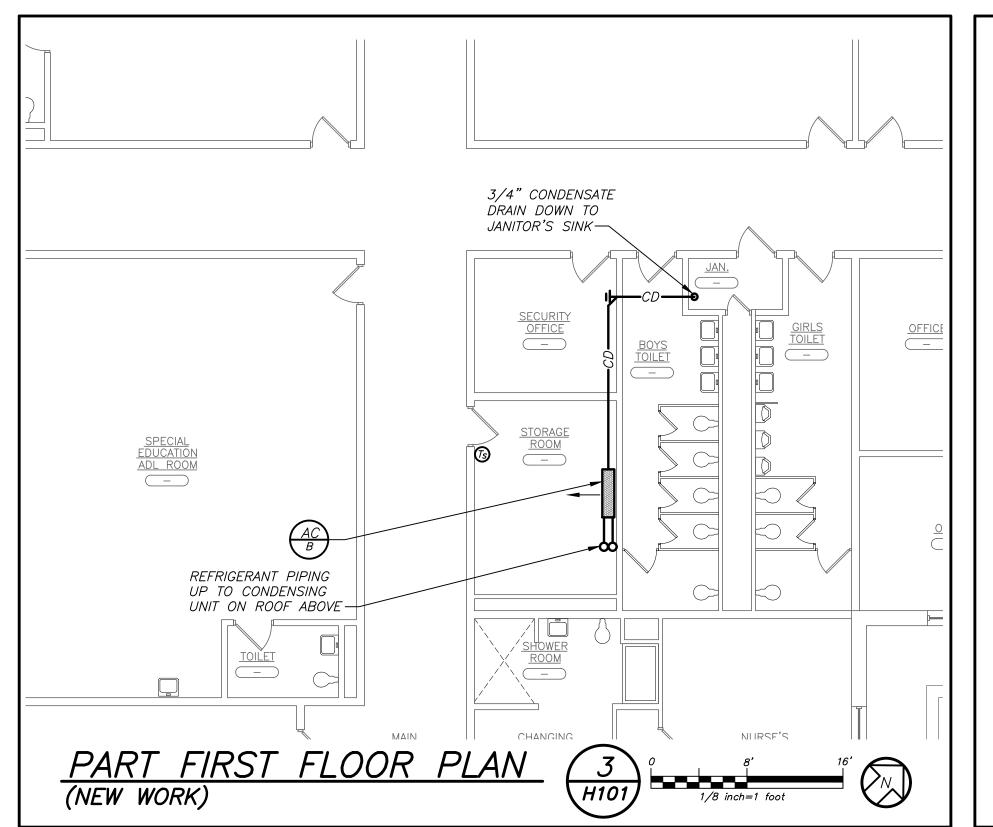
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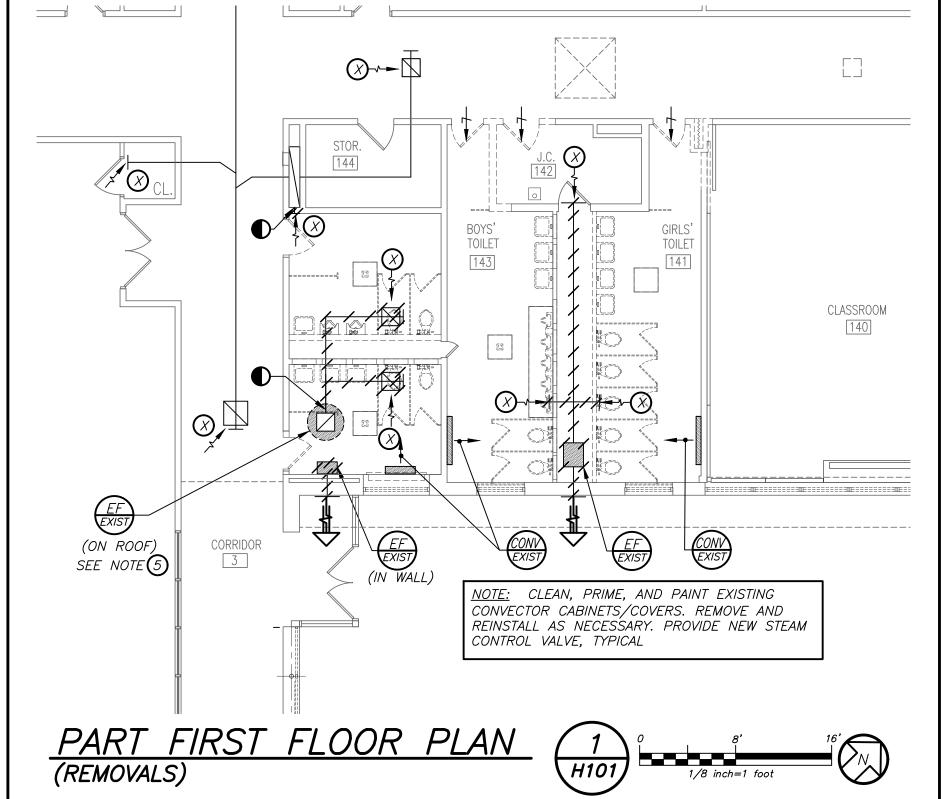


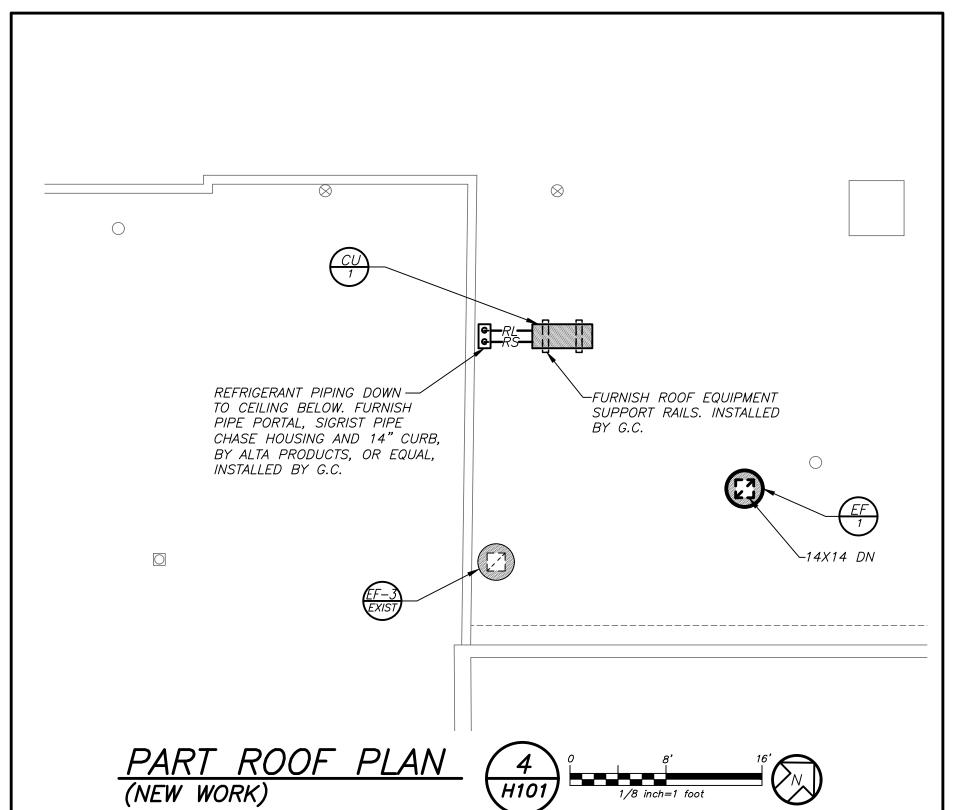


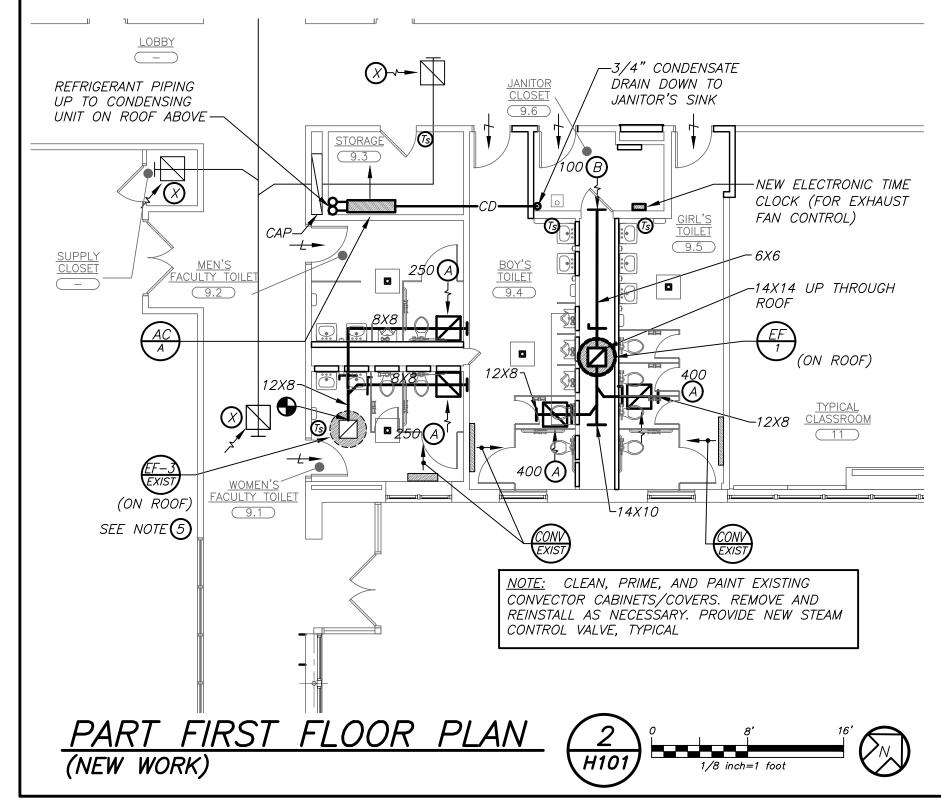
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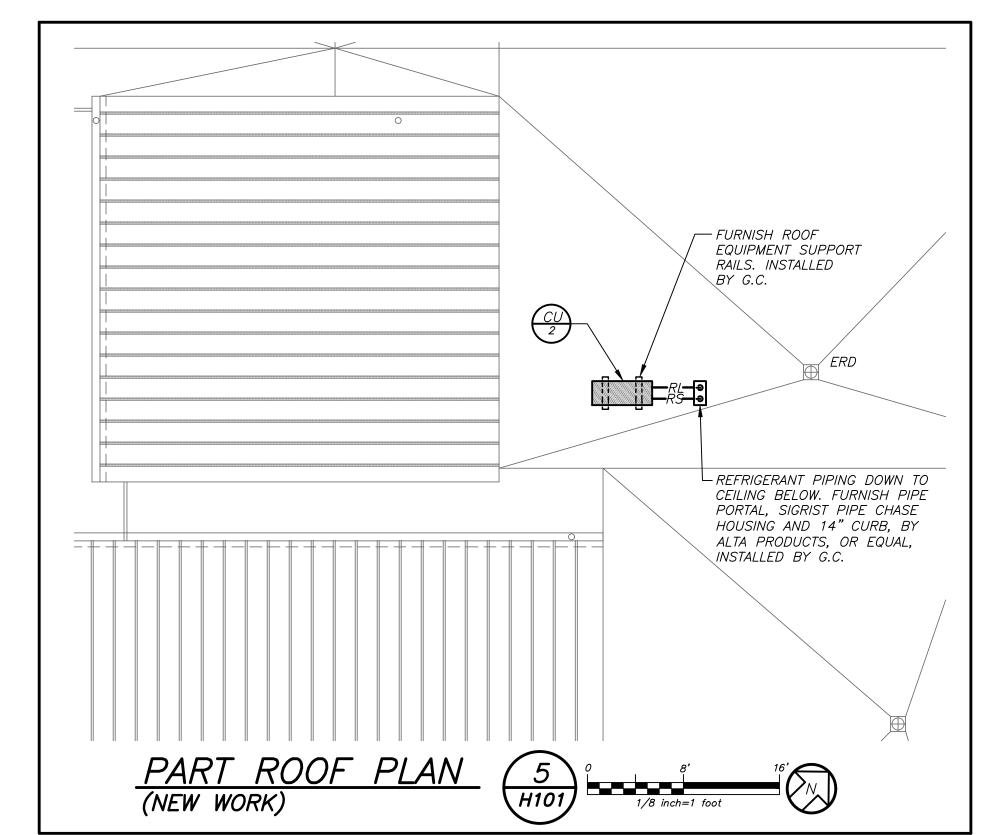






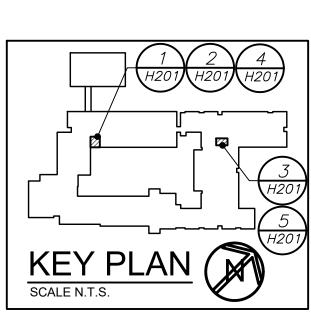






**GENERAL NOTES:** 1) THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK. 2 DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED. 3 EQUIPMENT, PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED WHERE PIPING IS INSTALLED EXPOSED. 4) ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. 5 EXISTING CEILING/FLOOR/CRAWL SPACE/ROOF MOUNTED EXHAUST FANS SHALL BE COMPLETELY REFURBISHED AND RE-BALANCED TO INDICATED FAN PERFORMANCES. THE REFURBISHMENT SHALL INCLUDE FULLY CLEANING OF THE UNIT FAN CASING, REPLACEMENT OF FAN MOTORS, BELTS, PULLIES, BEARINGS, FAN SHAFTS (WHERE APPLICABLE), MOTOR/STARTER/DISCONNECT SWITCHES, DAMPERS, ACTUATORS, WIRING, ALL NEW FAN CONTROLS, ETC. 6 EXISTING AND REFURBISHED HVAC EQUIPMENT (INCLUDING ALL AIR OUTLETS) SHALL BE AIR BALANCED TO SPECIFIED PERFORMANCES.

	LEGEND					
<del>*******</del>	EXISTING DUCTWORK, EQUIPMENT, ETC. TO REMAIN					
<del></del>	EXISTING DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED  POINT OF CHANGE IN DUCT SIZE					
	NEW DUCTWORK ————————————————————————————————————					
	NEW DUCTWORK —— POINT OF CHANGE IN DUCT SIZE					
<u>F</u>	SQUARE DUCT TURN WITH TURNING VANES					
$\square$ $\otimes$	EXISTING CEILING EXHAUST/RETURN REGISTER/GRILLE					
	TYPE -SEE SCHEDULE 4-WAY CEILING DIFFUSER					
<b>X</b> O**	TYPE -SEE SCHEDULE 3-WAY CEILING DIFFUSER					
(*)***	TYPE-SEE SCHEDULE REGISTER/DIFFUSER IDENTIFICATION					
	DUCT MTD. MANUAL AIR VOLUME DAMPER (LOCKING TYPE)					
<b>──• ──□</b> <i>MD</i>	MOTORIZED DAMPER					
	FIRE DAMPER AND ACCESS DOOR/SMOKE DAMPER W/AD					
— <i>ELPS</i> —	EXISTING LOW PRESSURE STEAM SUPPLY PIPE					
	EXISTING LOW PRESSURE STEAM RETURN PIPE					
— CD — CONDENSATE DRAIN PIPING						
— RL —	REFRIGERANT LIQUID PIPING					
— RS —	REFRIGERANT SUCTION PIPING  FLOW DIRECTION WITHIN PIPE					
<del>o -</del> po	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)					
(FF)	CLEAN OUT					
EF EXIST	EXISTING EXHAUST FAN IDENTIFICATION					
(F)	NEW EXHAUST FAN IDENTIFICATION					
<u> </u>	NEW WALL MTD.(5'-2"+/- A.F.F.) TEMPERATURE SENSOR					
(T <sub>E</sub> )	EXISTING TEMPERATURE SENSOR					
<del></del>	LOUVERED DOOR					
<del>-U</del> ►	UNDERCUT DOOR					
<b>D</b>	POINT OF DISCONNECTION					
<b>9</b> ──	POINT OF CONNECTION, NEW TO EXISTING					
WMS	WIRE MESH SCREEN					
CFM	CUBIC FEET PER MINUTE					
AFF	ABOVE FINISHED FLOOR					
OAI	OUTSIDE AIR INTAKE					
FC	FLEXIBLE CONNECTION					
AD	ACCESS DOOR					
MD	MOTORIZED DAMPER					
VD	VOLUME DAMPER					
FD/AD	FIRE DAMPER AND ACCESS DOOR					
C.O.	CLEAN OUT					
G.C.	GENERAL CONTRACTOR					
BR	BOTTOM WALL REGISTER					
CR	CEILING REGISTER					
ERD	EXISTING ROOF DRAIN					
<u> </u>	SECTION/DETAIL/ELEVATION/PART PLAN NUMBER					



VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

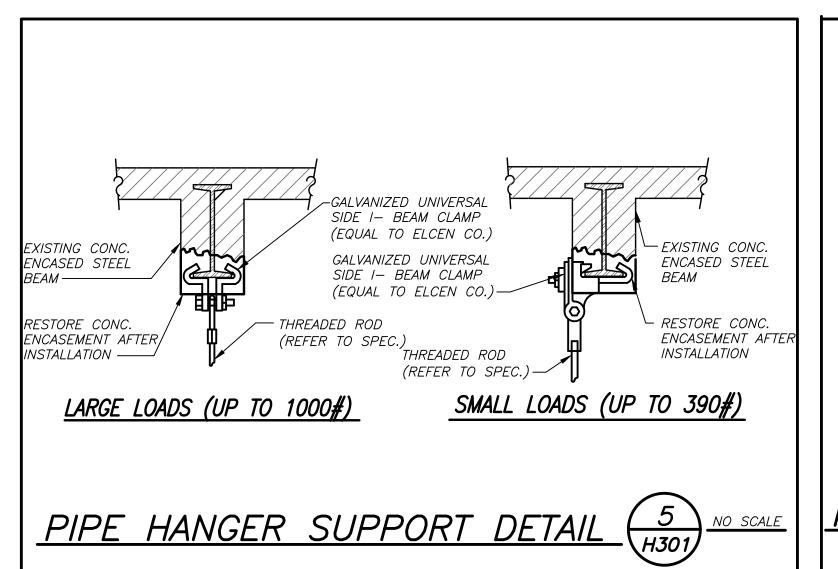
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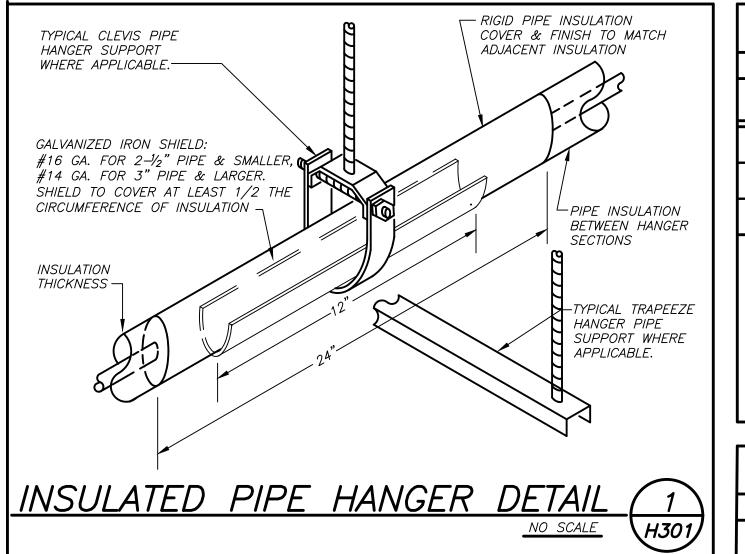
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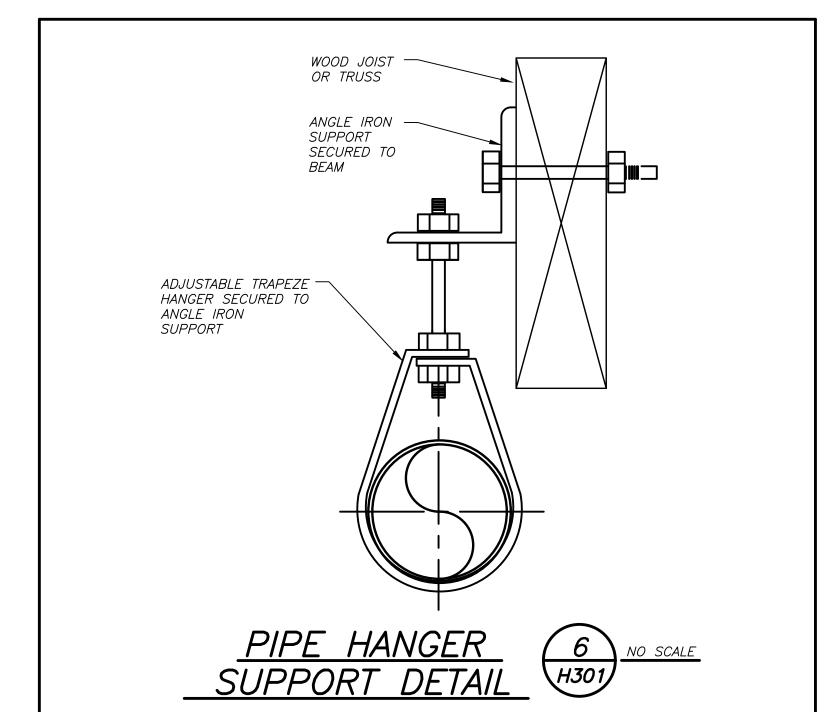
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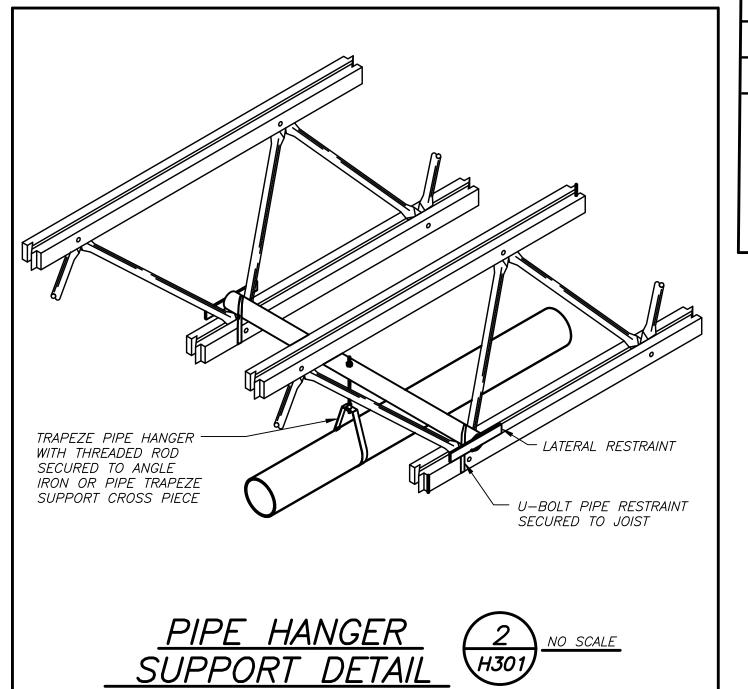
01-14-2022 07-14-2021 SED ADDENDUM / 02-23-2021 11-06-2020 100% C.D. SUBMISSION DATE ISSUED TO SHEET SIZE 30"x42" H201 SCALE

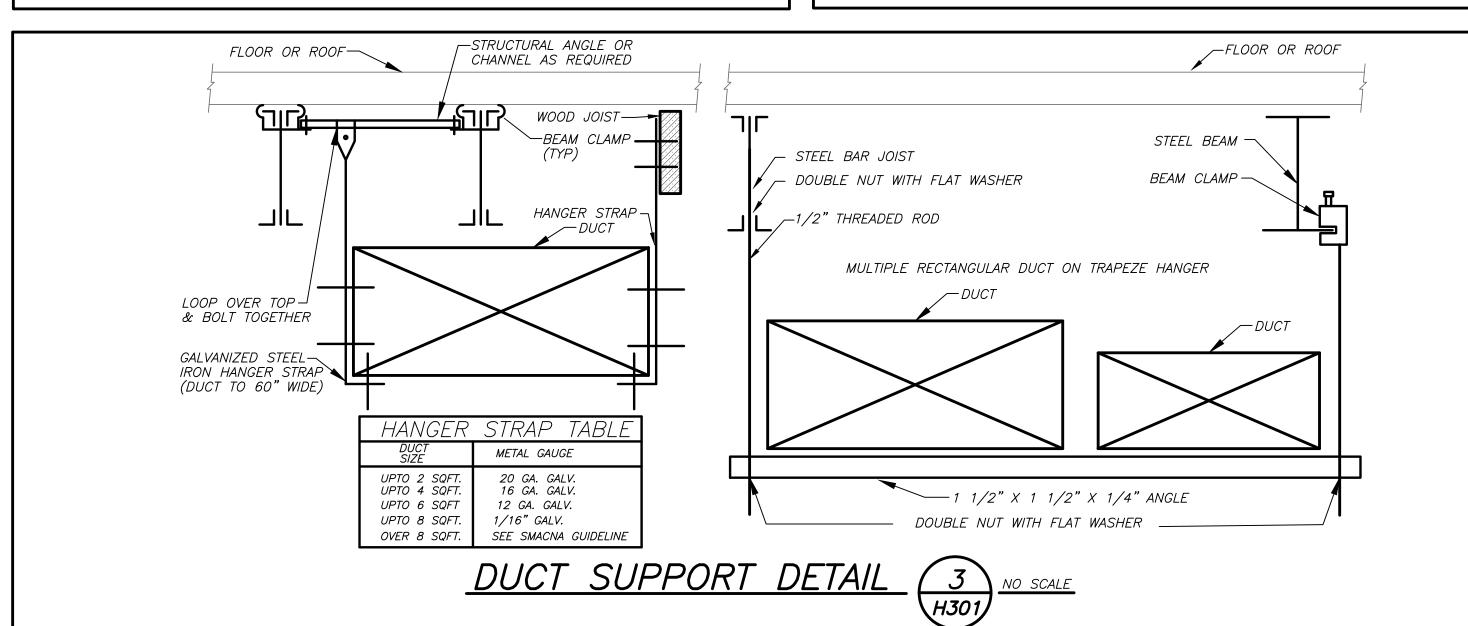
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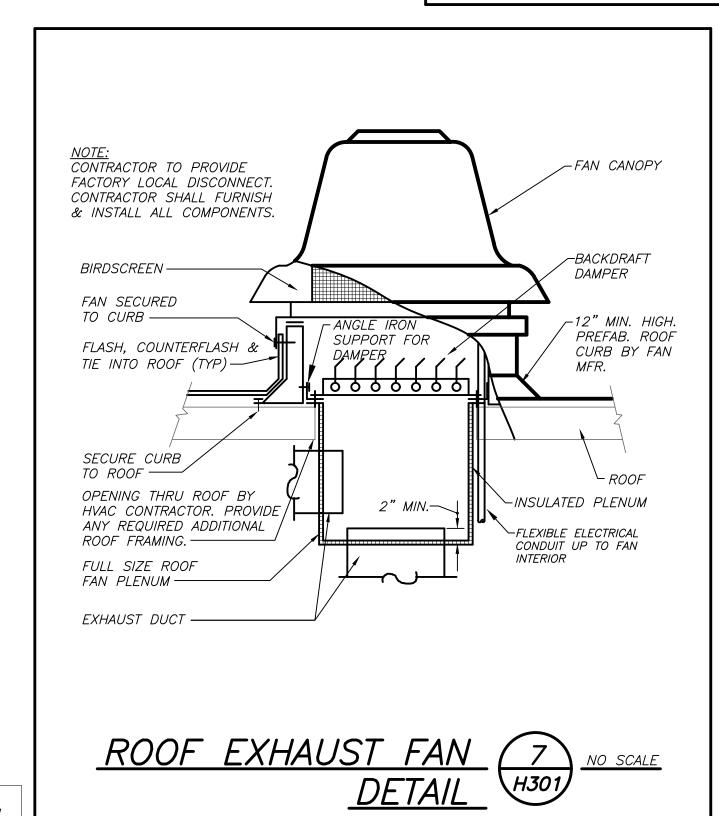


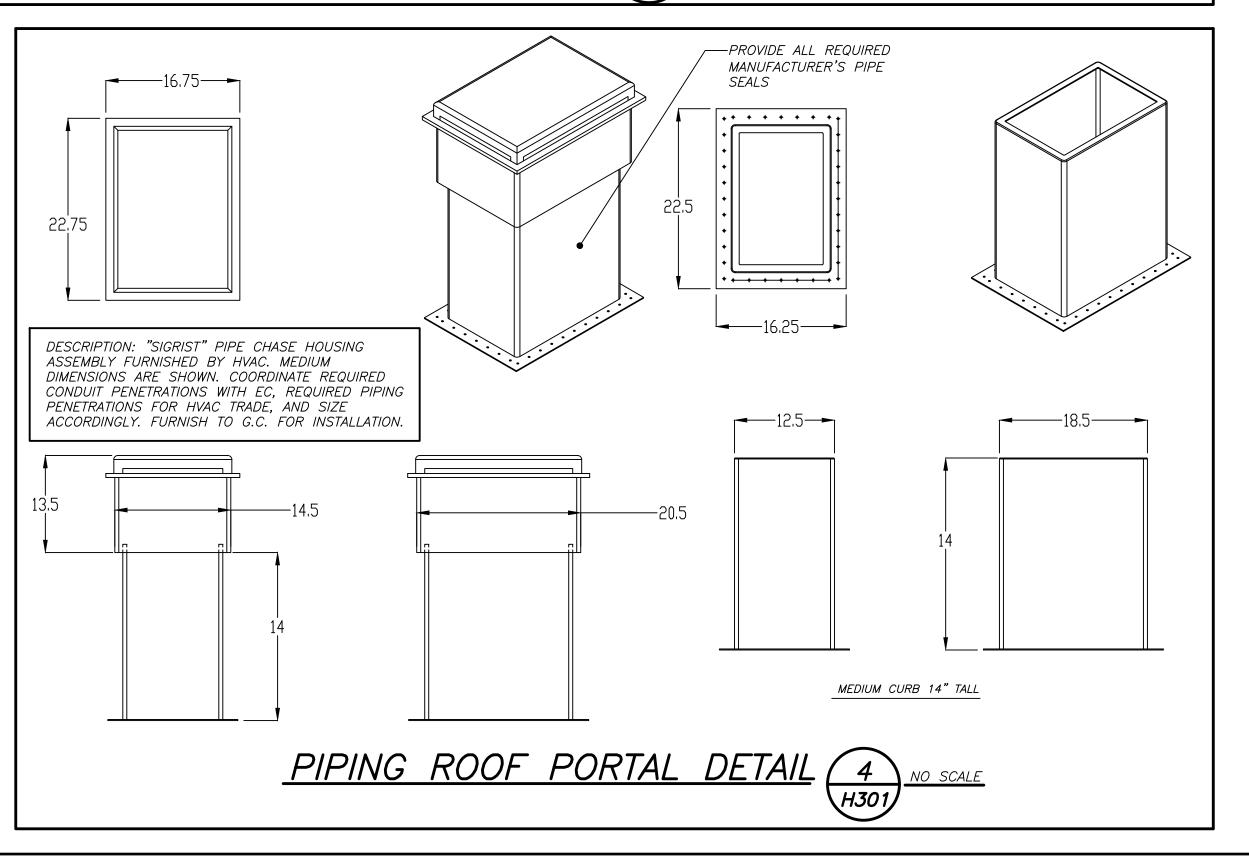












	SCHEDULE OF OUTDOOR CONDENSING UNITS										
	GENERAL DA	ATA	CAPACITY		PHYSICA	L DATA		ELECTR	ICAL SU	PPLY	
MARK	SERVICE	MODEL (1) No.	COOLING (MBH)	UNIT WEIGHT (POUNDS)	L	W	Н	SERVICE	MCA	EER	REMARKS
	STORAGE ROOM 105	38MAQB24R-3	24.0	150	36"	18"	32"	208/1/60	20.0	13	REFER TO 2345678
<u>CU</u> 2	STORAGE ROOM 105	38MAQB24R-3	24.0	150	36"	18"	32''	208/1/60	20.0	13	REFER TO 2345678

N(1) AS MANUFACTURED BY "CARRIER".

O(2) REFRIGERANT R-410A.

(3) INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

SECURE UNIT TO ROOF MOUNTED 3" THICK PRECAST CONCRETE EQUIPMENT CONDENSING UNIT PADS.

(5) DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.

6 UNIT SHALL BE CONTROLLED VIA MANUFACTURER'S DDC NETWORK CONTROLLER TO INDOOR HARDWIRED CONTROLLER.

PROVIDE UNIT WITH SNOW/WIND GUARD AT FAN INTAKE. DISCONNECT SWITCH, ROOF CURB EQUIPMENT SUPPORTS, VIBRATION ISOLATION PADS AND LOW AMBIENT CONTROLS. EXTEND CONTROL WIRING FROM OUTDOOR UNIT TO INDOOR

8 LOW SOUND CONDENSER FAN.

	SCHEDULE OF INDOOR DUCTLESS AIR HANDLING UNITS											
	GENERAL	CAP	ACITY	PH	IYSICA	L DATA	4	ELECTRICA	AL DATA			
MARK	SERVICE	MODEL No. 🚺	MOUNTING LOCATION	COOLING (MBH)	CFM	UNIT WEIGHT (POUNDS)	L	W	Н	SERVICE	MCA	REMARKS
AC	STORAGE ROOM 105	40MAQB24-3	HIGH WALL	24.0	520 TO 870	44	24	24	10	208/1/60	0.4	REFER TO 234567
AC $B$	STORAGE ROOM 105	40MAQB24-3	HIGH WALL	24.0	520 TO 870	44	24	24	10	208/1/60	0.4	REFER TO 234567

N (1) AS MANUFACTURED BY "CARRIER". CAPACITIES BASED ON 40°F SST, 95°F AMBIENT. (3) PROVIDE MINI SPLIT INLINE CONDENSATE PUMP.  $S \bigcirc \Phi$  REFRIGERANT R410 A.

(5) INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. (6) UNIT SHALL BE CONTROLLED VIA MFGR. NETWORK CONTROLLER.

(7) INDOOR UNIT POWERED FROM OUTDOOR UNIT.

	SCHEDULE OF EXHAUST FANS											
MARK	SERVICE	LOCATION	TYPE	MODEL No.	CFM	EXT. S.P. IN H <sub>2</sub> O	RPM	HP	ELECTRIC SERVICE	PHYSICA LxWxH	L DATA WEIGHT	REMARKS
EF 1	GANG TOILET RMS	ROOF	CENTRIF.	VG-120	900	0.5	1725	1/2	120/1/60	24øX24	100	REFER TO
EF-3 EXIST	STAFF TOILET RMS	ROOF	CENTRIF.	_	500	0.25	1725	ı	120/1/60	-	_	REFER TO  4

	SCHEDULE OF REGISTERS AND DIFFUSERS									
MARK	TYPE	SERVICE	MODEL No. <b>1</b>	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	REMARKS			
A	CEILING REGISTER	EXHAUST	635	-	OPPOSED BLADE	PER ARCH.	REFER TO 23458			
B	WALL REGISTER	EXHAUST	635	_	OPPOSED BLADE	PER ARCH.	REFER TO 23458			

7 2 F 3	AS MANUFACTU INSTALL PER M PROVIDE FACTOR CONTROLLER, 16 SCHEDULED COR TOTAL STATIC PR	IANUFACTURER RY MOUNTED E 8" HIGH ROOF NTROLS, NAME	'S RECOM DISCONNEC CURB, MC	T/VARIABLE S OTORIZED DAM	SPEED MPER,	F. C B M A	AN PERFOR LEANING OF ELTS, PULL MOTOR/STAR	RMANCES. TI F THE UNIT LIES, BEARIN RTER/DISCOI WIRING ANI	R/CRAWL SPAC REFURBISHED HE REFURBISHI FAN CASING, NGS, FAN SHAF NNECT SWITCHE D ALL NEW FA	MENT SHALL REPLACEMEN TS (WHERE ES, MOTORIZI	INCLUDE FU IT OF FAN M APPLICABLE) ED DAMPERS	VLLY MOTORS, ,

7777 (7 (7 (	7 7 7 L	SERVICE	No. <b>(</b> 1 <b>)</b>	DISCHARGE	TYPE	7 11 11 31 1	NEWARRS
A	CEILING REGISTER	EXHAUST	635	_	OPPOSED BLADE	PER ARCH.	REFER TO 23458
B	WALL REGISTER	EXHAUST	635	-	OPPOSED BLADE	PER ARCH.	REFER TO 23458
2 INSTALL 3 BARS S BLADE	ET @ 45° DEGREES SPACING, ALUMINUM	ER'S RECOMMENDATION S  DEFLECTION WITH 1  OF CONSTRUCTION.		WITH AR  6 PROVIDE	IATE COLOR, TRI CHITECT. CABLE OPERATE SIBLE AREAS.		
(4) PROVID OPPOSI	E SQUARE TO ROU. ED BLADE DAMPER.	ND ADAPTER AND	(7) SUPF	PLY NECK SIZE PER	CFM RANGE	8) RETURN NE	ECK SIZE PER CFM RANGE

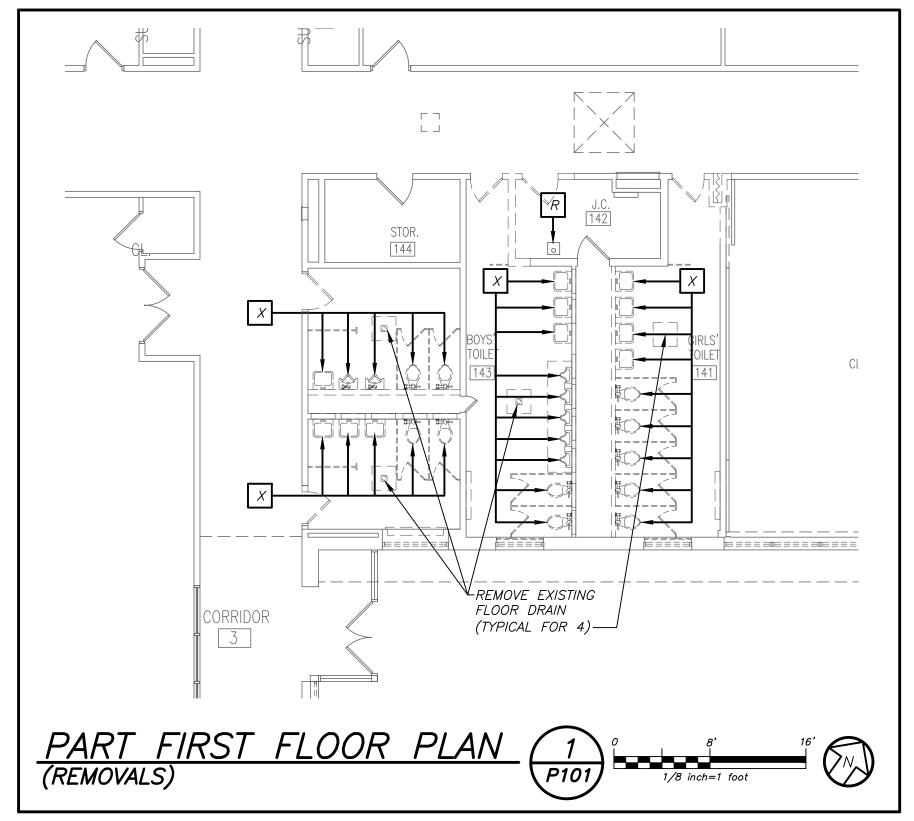
S.E.D. CONTROL NUMBER: 66-23-00-01-0-029-012

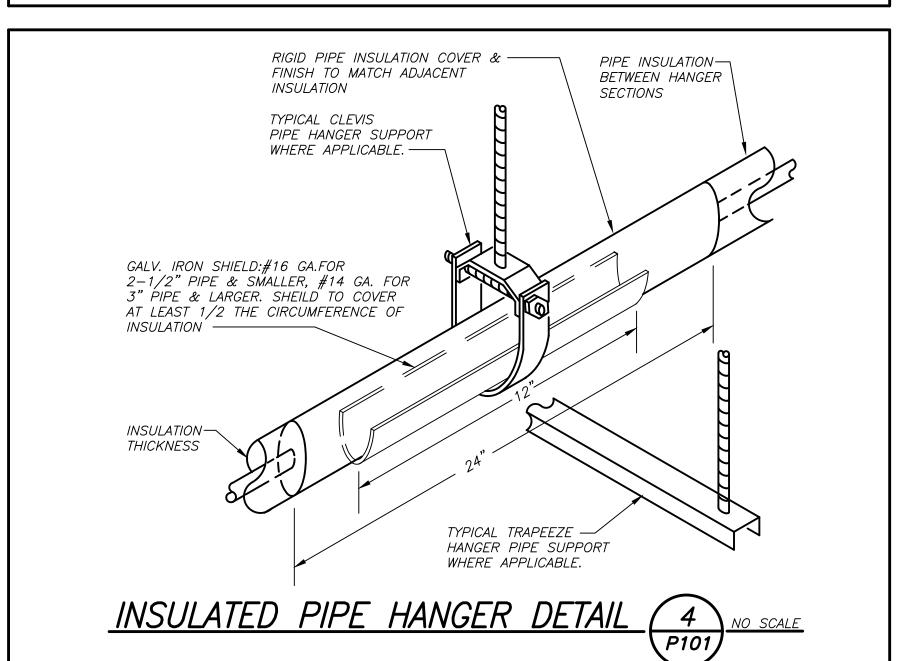
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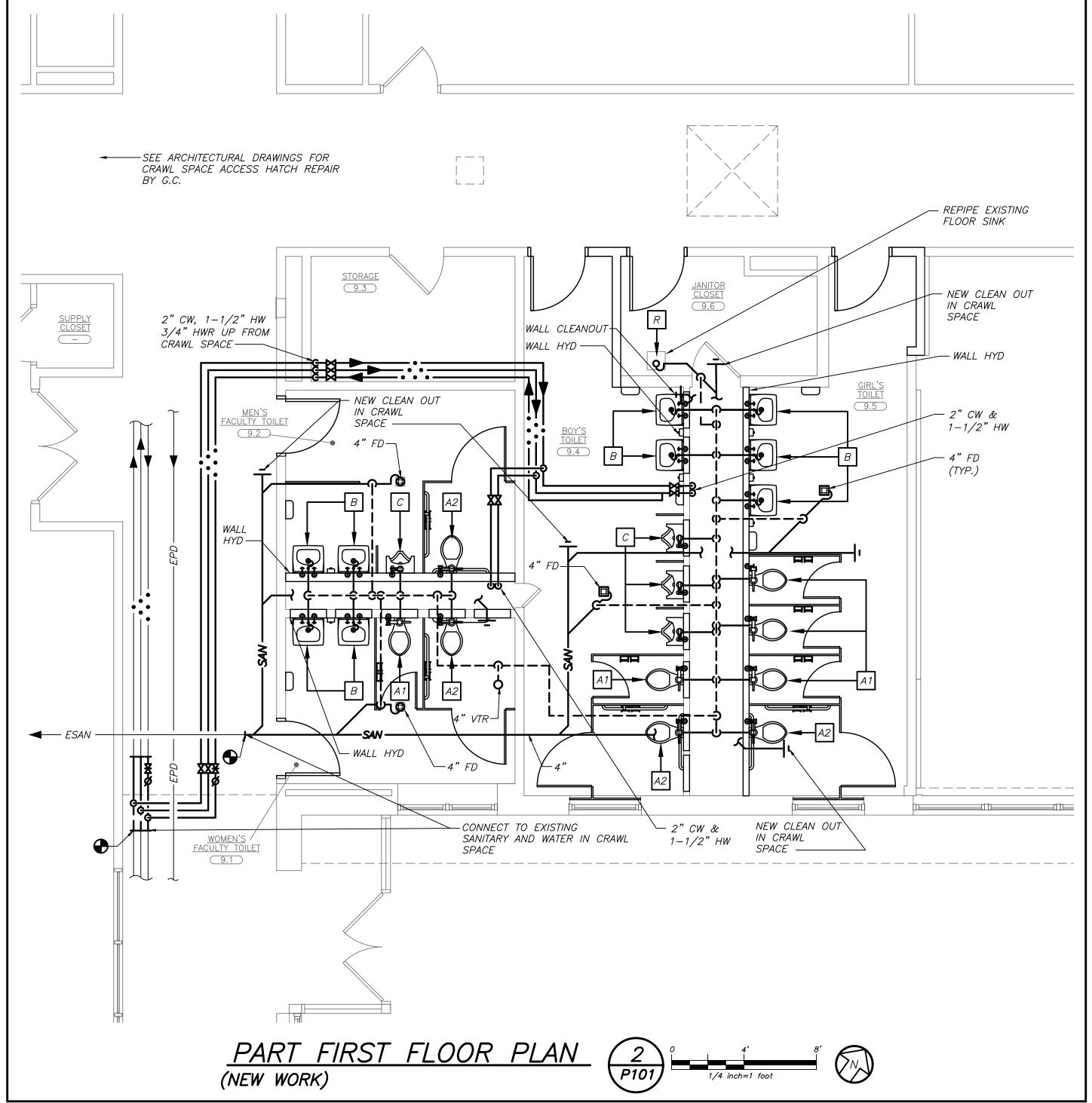
MOOL DISTRICT W REPLACEMENT, MASONRY & MENTS AD, YONKERS N.Y. 10710 AD, DETAILS		
YONKERS SCH PS 29 - WINDO SITE IMPROVE 47 CROYDON RO, DRAWING TITLE SCHEDULES A	YONKERS SCHOOL DISTRICT PS 29 - WINDOW REPLACEMENT, MASONRY & SITE IMPROVEMENTS 47 CROYDON ROAD, YONKERS N.Y. 10710	DRAWING TITLE SCHEDULES AND DETAILS

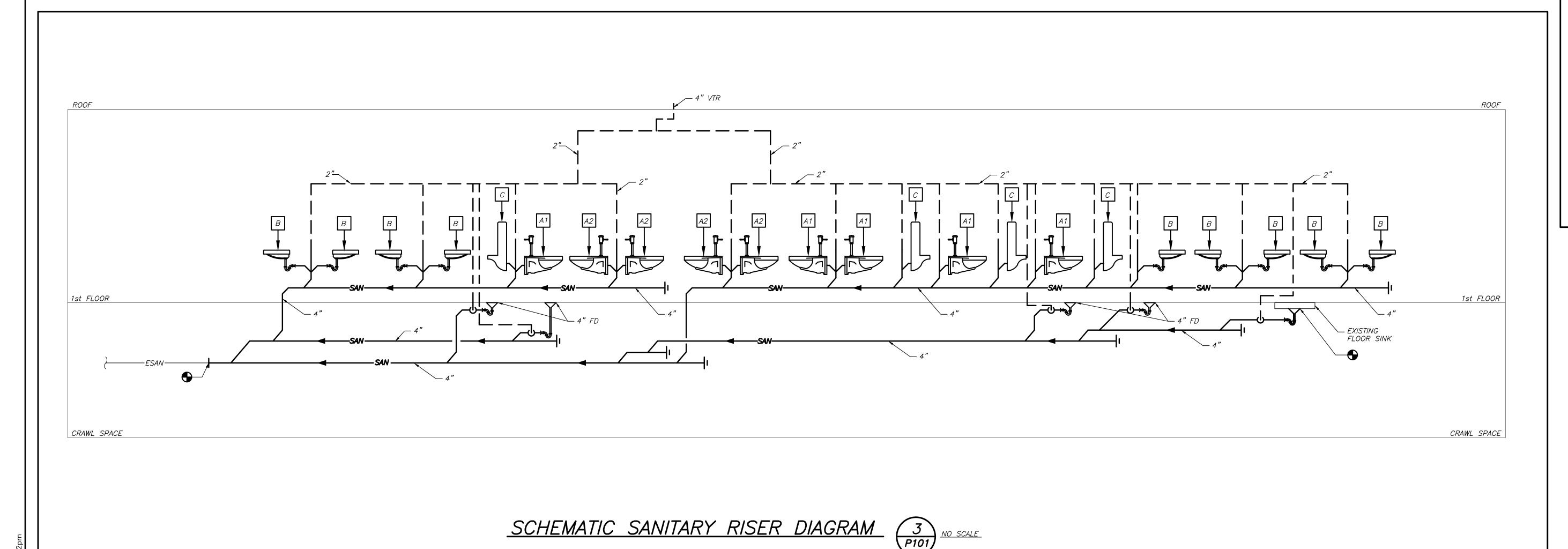
01-14-2022	BID				
07-14-2021	SED ADDENDUM 🛕				
02-23-2021	BID				
11-06-2020	100% C.D. SUBMISSION				
DATE	ISSUED TO				
SHEET SIZE 30"x42"	DRAWING NO.				
SCALE AS NOTED	H301				
DRAWN BY BGA	FILE NO. 19359.00				

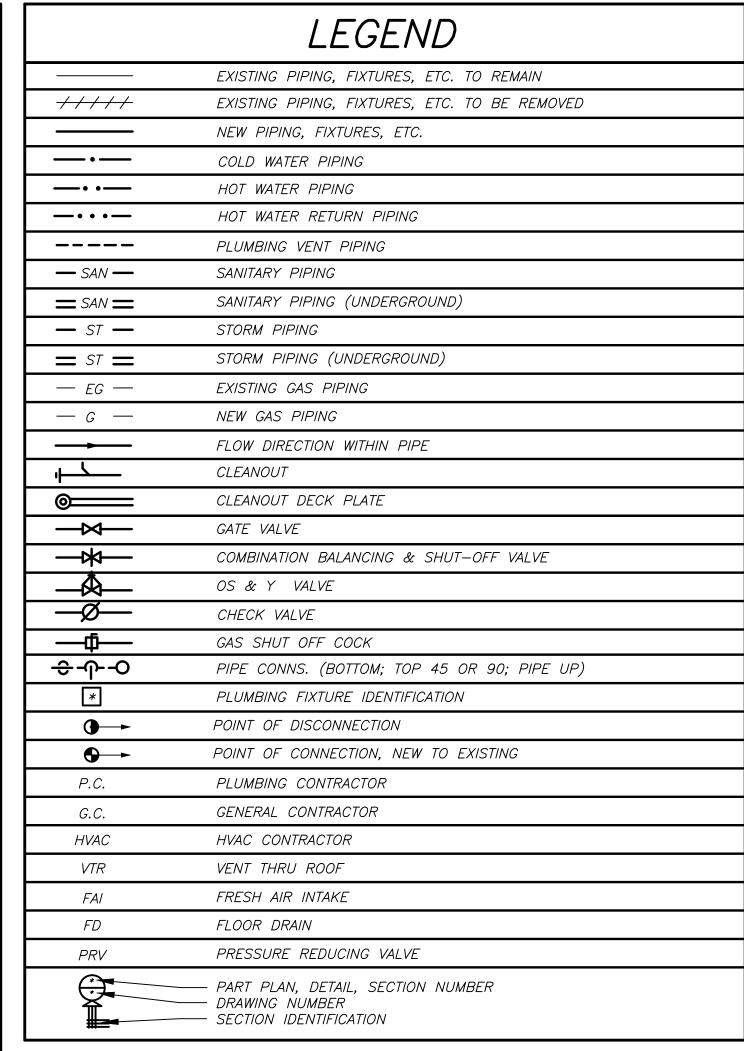
BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS









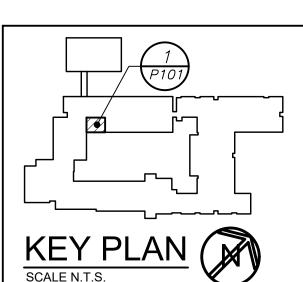


PLUMBING	FIXTURE	SCHEDULE
		DDANCH CI

MARK	DESCRIPTION		BRANC	'H SIZE	
MARA	DESCRIT TION	W	V	Н	С
A1	WALL MOUNTED WATER CLOSET (FLUSH VALVE)	4"	2"	-	1"
A2	WALL MOUNTED WATER CLOSET (FLUSH VALVE) (HANDICAPPED)	4"	2"	-	1"
В	WALL MOUNTED LAVATORY (HANDICAPPED)	1 1/2"	1-1/2"	1/2"	1/2"
Ŋ	URINAL — WALL MOUNTED	3"	2"	_	1/2"
R	EXISTING FIXTURE TO REMAIN	_	_	_	-
X	EXISTING FIXTURE TO BE REMOVED	_	_	_	_

## REMOVAL NOTES

- (1) REMOVE ALL PLUMBING FIXTURES, EQUIPMENT, SPECIALTIES, DRAINS, CONTROLS, HANGERS, BASES, SUPPORTS, PIPING, VALVES, TUBING AND PLUMBING ACCESSORIES THAT ARE NOT INCORPORATED IN THE NEW LAYOUT.
- (2) WHERE REMOVAL IS INDICATED OR IMPLIED OR NOT INCORPORATED IN THE NEW LAYOUT, THE ITEM ITSELF IS TO BE REMOVED COMPLETELY TOGETHER WITH ALL CONNECTING PIPING, SPECIALTIES, SUPPORTS, CONTROLS, ETC. CONNECTING PIPING IS TO BE REMOVED BACK TO MAINS WHERE THE ARE TO BE CAPPED OR DISCONNECTED. THIS INCLUDES ALL GAS, SANITARY, VENT, WATER, ACID WASTE AND PUMP DISCHARGE PIPING. REFER TO DIVISION I OF SPECIFICATION FOR CUTTING AND PATCHING REQUIREMENTS.
- (3) WHERE EXISTING PIPING ENTERS INACCESSIBLE TRENCHES, TUNNELS, SHAFTS, WALLS AND CEILINGS INSIDE THE EXISTING BUILDING, IT SHALL BE CUT BACK AT LEAST 2" INTO SUCH INACCESSIBLE SPACES AND SHALL BE SUITABLY CAPPED AND SEALED BY THE CONTRACTOR.
- 4) THE CONTRACTOR SHALL EXERCISE NORMAL CAUTION TO PREVENT UNNECESSARY CUTTING AND DAMAGE TO THE EXISTING BUILDING. ANY EXCESSIVE DAMAGE AS DETERMINED BY THE OWNER SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR CAUSING THE DAMAGE.
- (5) ALL DEMOLISHED EQUIPMENT ETC. EXCEPT THOSE ITEMS SPECIFICALLY REQUESTED BY THE OWNER SHALL BECOME THE CONTRACTORS PROPERTY, SHALL BE REMOVED FROM THE PREMISES, AND DISPOSED OF LEGALLY.



S.E.D. CONTROL NUMBER:

66-23-00-01-0-029-012

01-14-2022 07-14-2021 SED ADDENDUM 11-06-2020 100% C.D. SUBMISSION DATE ISSUED TO SHEET SIZE 30"x42" SCALE AS NOTED

DRAWN BY

BGA

OF ALL OTHER CONTRACTORS FILE: Y:\YONKERS PUBLIC SCHOOLS\YPS - School 29 - Renovations (1947.00)\Drawings\Plumbing\194700P101-PH1.dwg

BEFORE FABRICATION THIS CONTRACTOR SHALL

VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK

## GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
- 2. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
- 3. WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER.
- 4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
- 5. ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. WHERE SHOWN WITH DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED, WITH LETTER (ER) IS EXISTING RELOCATED, WITH LETTER (RN) IS EXISTING TO BE REPLACED WITH NEW AND WITH LETTER (RR) IS EXISTING TO BE REMOVED AND RELOCATED.
- 6. CIRCUIT NUMBERS TO EXISTING PANELS ARE SHOWN FOR INTENT ONLY. ACTUAL CIRCUIT NUMBERS TO BE USED SHALL BE AS PER FIELD CONDITIONS BY UTILIZING SPARE CIRCUITS, BREAKERS OR SPACES IN EXISTING PANEL, SIZE AS INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL BALANCE LOAD OF CIRCUITS EVENLY ON ALL PHASES.
- 7. FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM 74" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
- 8. PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT.
- 9. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
- 10. PROVIDE LOCK-ON CIRCUIT BREAKERS FOR CIRCUITS SERVING EXIT SIGN FIXTURES AND EMERGENCY BATTERY PACK FIXTURES.
- 11. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND OTHER CEILING INSTALLED ITEMS.
- 12. THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'-0".
- 13. EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
- 14. WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.,) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS.
- 15. CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
- 16. PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
- 17. CONTRACTOR SHALL COORDINATE WITH THE FIRE DEPARTMENT AND F.A. VENDOR BEFORE PROCEEDING WITH WORK INVOLVING FIRE ALARM SYSTEM.
- 18. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE.
- 19. THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.
- 20. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
- 21. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.
- COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE. 23. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND

22. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO

- SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.
- 24. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.
- 25. ALL EMERGENCY LIGHT FIXTURES DESIGNATED 'EM' SHALL BE SWITCHED UNLESS OTHERWISE NOTED. PROVIDE UNSWITCHED HOT LEG FOR BATTERY CHARGER REGARDLESS OF FUNCTION. ALL EMERGENCY AND EMERGENCY LIGHT FIXTURES SHALL REVERT TO BATTERY OPERATION UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATE REGARDLESS OF LIGHT SWITCH POSITION.
- 26. WIRING FOR P.A. SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S REQUIREMENTS, WIRING INDICATED ON DRAWINGS IS FOR REFERENCE ONLY. WIRING FOR P.A. SYSTEM AND CLOCKS SHALL BE PLENUM RATED AND RUN EXPOSED ABOVE ACCESSIBLE CEILINGS. IT SHALL BE RUN IN EMT CONDUIT WHERE EXPOSED, EXCEPT FOR CORRIDORS, CLASSROOMS AND OFFICES IT SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V-500 AND/OR V-700).
- 27. PRIOR TO ANY CHASING, CHOPPING OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE ALL WORK TO ENSURE THAT IT WILL BE IN HARMONY AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING OWNER PRIOR TO PROCEEDING.
- 28. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
- 29. ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK.
- 30. PREPARE 'AS-BUILT' DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.
- 31. LIGHT FIXTURES SHALL BE CONSTRUCTED TO SUIT PARTICULAR TYPE OF CEILING AND WALL CONSTRUCTION AND SHALL BE PROVIDED WITH APPROPRIATE TRIMS, MOUNTING FRAMES AND ADAPTERS AS REQUIRED.
- 32. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.

## GENERAL REMOVAL NOTES

- BEFORE COMMENCING WORK. EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK.
- 2. BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF THE SPACE BEFORE SUBMITTAL OF BID.
- 3. ALL ELECTRICAL EQUIPMENT IN THE AREA OF WORK IS EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
  - LIGHTING FIXTURES AND SWITCHES.

RECEPTACLES, OUTLETS AND DEVICES.

- ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF 4. POWER AND DISCONNECTED.
- ALL POWER CONDUCTORS. CONTROL WIRING AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SUCH AS FANS, AIR CONDITIONING UNITS, PUMPS, . ETC. DESIGNATED FOR REMOVAL ON THE HVAC AND PLUMBING REMOVAL DRAWINGS SHALL BE REMOVED CLEAR BACK TO THE SOURCE OF POWER AND DISCONNECTED. ALL MOTOR STARTERS, DISCONNECT SWITCHES. CONTROL DEVICES. ETC. SHALL BE REMOVED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- CIRCUIT BREAKERS AND/OR SWITCHES IN PANELBOARD(S) OR DISTRIBUTION BOARD(S) MADE SPARE DUE TO REMOVAL SHALL BE DESIGNATED AS SUCH ON THE PANEL SCHEDULE.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO TRACE AND RELOCATE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING WHICH PASSES THROUGH THE REMOVAL AREA THAT SERVE EXISTING OCCUPIED SPACES TO REMAIN. COORDINATE WITH BUILDING MANAGER PRIOR TO ANY SHUTDOWNS OR DISRUPTIONS THAT MAY BE REQUIRED TO ACCOMPLISH THIS
- DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE REUSED. PRIOR TO DISPOSAL, CONTACT BUILDING MANAGER TO DETERMINE 8. IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK.
- EXISTING CIRCUIT BREAKERS IN PANEL(S) ARE TO BE RE-USED. ELECTRICAL CONTRACTOR TO DISCONNECT PANEL AND CIRCUIT BREAKERS WITH GREAT 9. CARE TO ENSURE AGAINST DAMAGE. THIS CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.
- ALL FIRE ALARM DEVICES IN THE AREA OF WORK ARE EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED.
- EXISTING EQUIPMENT DESIGNATED FOR REUSE SHALL BE CLEANED, REFURBISHED AND RESTORED TO OPTIMUM PERFORMANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO CLEANING OF LIGHT FIXTURES, REPLACEMENT OF INOPERABLE BALLASTS AND LAMPS, RESISTANCE TESTING OF BRANCH CIRCUITRY AND FEEDERS, ETC.
- EXTEND EXISTING CIRCUITRY TO THOSE DEVICES THAT ARE TO BE RELOCATED. MATCH EXISTING TYPE AND SIZE. RELOCATION OF EXISTING 12. EQUIPMENT SHALL BE PERFORMED ONLY UPON OWNERS ACCEPTANCE OF EXISTING EQUIPMENT.
- EXTEND EXISTING CIRCUITS SERVING EQUIPMENT TO REMAIN FROM PANELS THAT ARE TO BE REMOVED TO NEW PANELS OR EXISTING PANELS THAT ARE 13. TO REMAIN.

## DISPOSAL OF MERCURY CONTAINING LAMPS

- ALL FLUORESCENT AND HID LAMPS WITHIN REMOVED LIGHT FIXTURES ARE CONSIDERED MERCURY CONTAINING AND SHALL BE TREATED AS HAZARDOUS
- FLUORESCENT AND HID LAMPS SHALL BE REMOVED FROM DEMOLISHED LIGHT FIXTURES AND DISPOSED OF AS PER NEW YORK STATE DEC REGULATIONS AND
- LAMPS MUST BE BAGGED IN NON-LEACHING PLASTIC BAGS AND SEALED TO PREVENT LEAKING.
- 4. EACH LAMP OR BAGGED CONTAINER IN WHICH THESE LAMPS ARE CONTAINED MUST BE LABELED OR MARKED CLEARLY WITH ONE OF THE FOLLOWING PHRASES; UNIVERSAL WASTE LAMPS, OR WASTE LAMPS, OR USED LAMPS
- 5. THESE MARKED BAGS MUST BE DELIVERED TO THE PROPER NEW YORK STATE D.E.C. AUTHORIZED LANDFILL OR RECYCLE CENTERS.

## LEGEND CEILING/WALL MOUNTED EXIT LIGHT WITH OUTLET BOX. DIRECTIONAL ARROWS SHADED PORTION INDICATES ILLUMINATED FACE. SCHEDULE DENOTES TYPE.

VALL MOUNTED EMERGENCY LIGHT FIXTURE WITH INTEGRAL BATTERY BACK—UP.

FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH CONTROLLING OUTLET "a". 'K' WHERE USED

CEILING MOUNTED LOW VOLTAGE, DUAL TECHNOLOGY SENSOR, SIMILAR TO WATTSTOPPER MODEL#

DT-300, MANUAL ON, AUTO OFF, WORK WITH LOCAL LOW VOLTAGE MOMENTARY CONTACT WALL $^\circ$ 

SWITCH (LVSW-101). INCLUDE REQUIRED POWER PACKS. PROGRAM TO MAXIMUM SENSITIVITY

WEATHERPROOF, EXTERIOR GRADE WALL MOUNTED OCCUPANCY SENSOR. SIMILAR TO HUBBELL LIGHTOWL #LO-IRWVRP-LWO, DISABLE PHOTOCELL SENSING. INCLUDE #UVPP POWER PACK.

HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL

125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED DUPLEX RECEPTACLE

20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL

HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240

INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES AMPERE RATING, NF INDICATES

NON-FUSED(OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE.

208 VOLT, SINGLE PHASE 2 POLE, THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH.

MOTOR (F.B.O. WIRED BY ELEC.). REFER TO PANEL SCHEDULES FOR WIRING AND OVER

2,(4,6) HOMERUN TO DESIGNATED PANEL, NUMBERS IN PARENTHESIS INDICATE MULTIPLE CIRCUIT, I.E.

SURFACE MOUNTED WIREMOLD V700 FOR RECEPTACLE AND/OR COMMUNICATION

INDICATES KEY SWITCH. '3' INDICATES 3-WAY SWITCH: '4' INDICATES 4-WAY SWITCH.

FLUSH WALL MOUNTED LIGHTING CONTROL TOGGLE SWITCH.

AND TIME DELAY TO 20 MIN.

CEILING/WALL MOUNTED JUNCTION BOX.

SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.

SURFACE MOUNTED EXISTING ELECTRICAL PANELBOARD.

WIRING. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

'WP' WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).

SIMILAR TO EATON #AH4361 + #AH27940G NEMA 1 ENCLOSURE.

WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE DEVICE.

TAG SYMBOL. NUMERAL DENOTES REFERENCE TO A WORK NOTE.

— EQUIPMENT ABBREVIATION (FE, SF, HV, ETC. SEE ABBREVIATIONS ON THIS DWG.)

WALL MOUNTED FIRE ALARM MANUAL PULL STATION

CONSIST OF 2#12-3/4"C U.O.N.

3-HOTS AND 1-GROUND U.O.N.

EXISTING TO REMAIN

HUBBELL #5362.

CURRENT PROTECTION.

FIRE ALARM STROBE ONLY

FIRE ALARM SMOKE DETECTOR

FIRE ALARM CONTROL PANEL.

CEILING MOUNTED P.A SPEAKER.

MECHANICAL EQUIPMENT IDENTIFICATION:

— EQUIPMENT NUMBER

- DRAWING NUMBER

DETAIL/PART PLAN NUMBER IDENTIFICATION:

— DETAIL/PART PLAN NUMBER

#GF5362.

EXISTING TO BE REMOVED

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IDEAS ;
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RIGHT W.
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S.E.D. CONTROL NUMBER: 66-23-00-01-0-029-012

01-14-2022 07-14-2021 02-23-2021

SED ADDENDUM / 11-06-2020 100% C.D. SUBMISSION DATE ISSUED TO SHEET SIZE 30"x42" SCALE

AS NOTED DRAWN BY FILE NO.

BGA

19359.00

REMOVED, SALVAGED AND RELOCATED

**ABBREVIATIONS** 

ABBV. DESCRIPTION

CIRCUIT

EM EMERGENCY

KW KILOWATT

GFI

MTD

W

GROUND

LIGHTING

MLO MAIN LUGS ONLY

MOUNTED

NEUTRAL

P.A. PUBLIC ADDRESS

YPICAL

NOT TO SCALE

REMOVE EXISTING

*WEATHERPROOF* 

EXISTING RELOCATED

AMP/AMPERE

ABOVE FINISHED FLOOR

CIRCUIT BREAKER

CONDENSING UNIT

KILOVOLT AMPERE

MAIN CIRCUIT BREAKER

EXISTING TO REMAIN

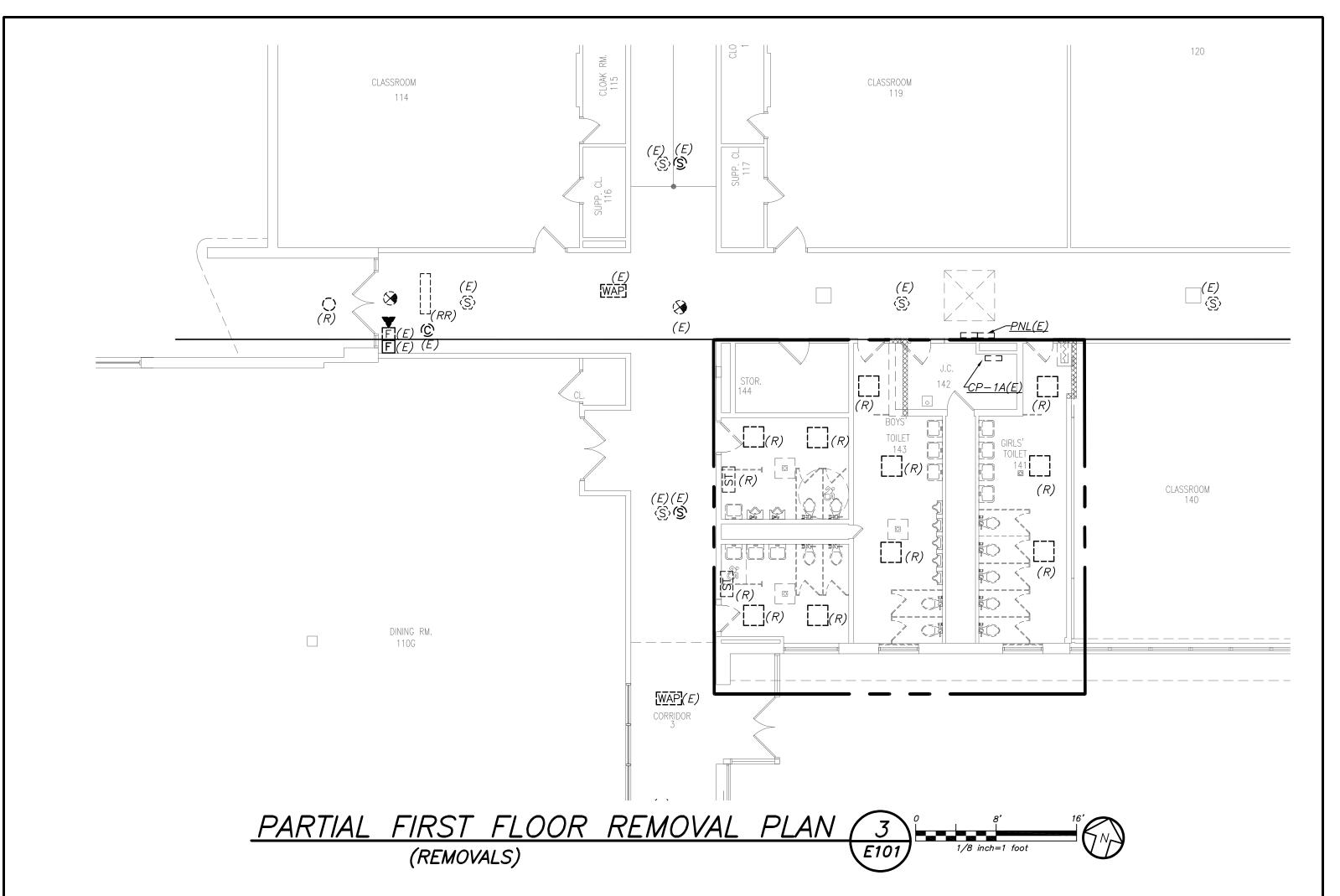
ELECTRICAL CONTRACTOR

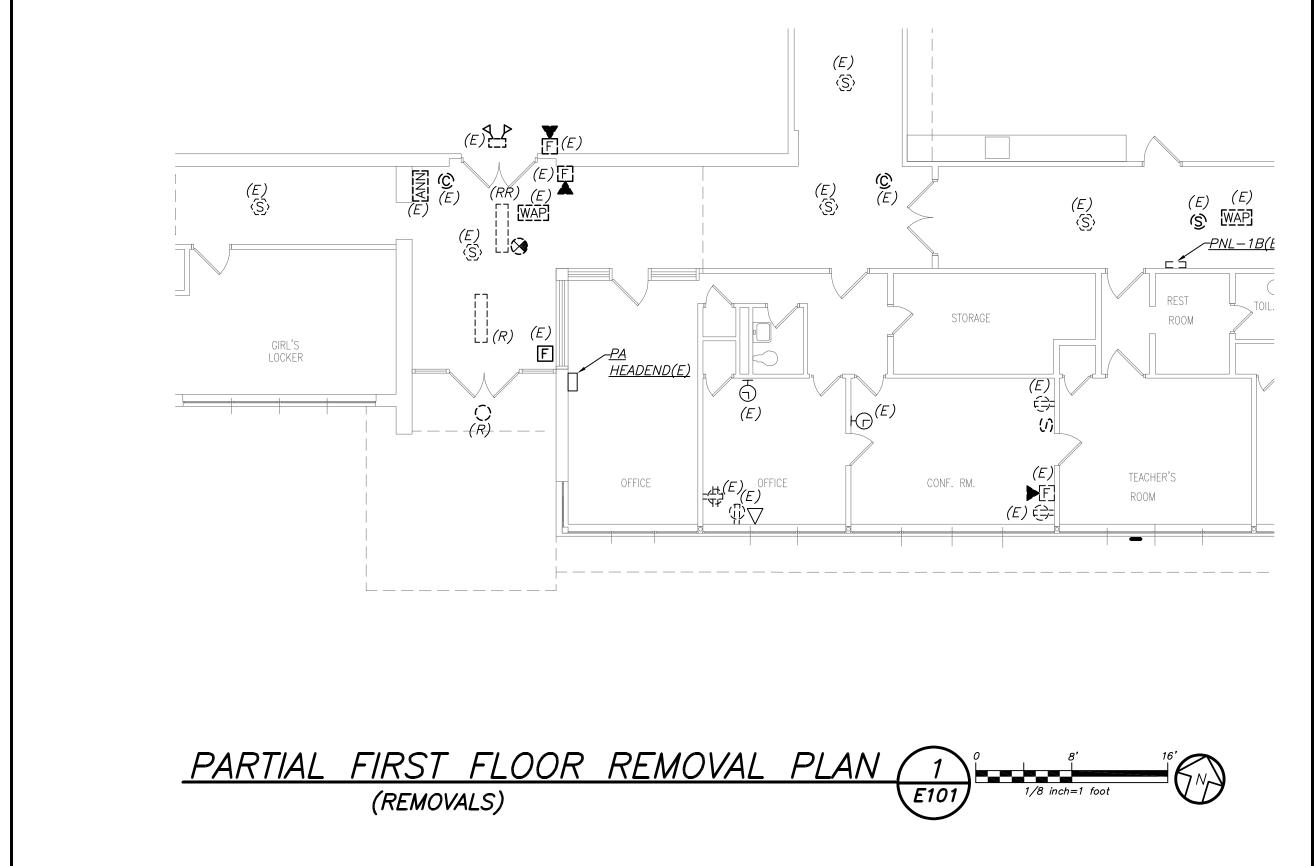
FIRE ALARM CONTROL PANEL

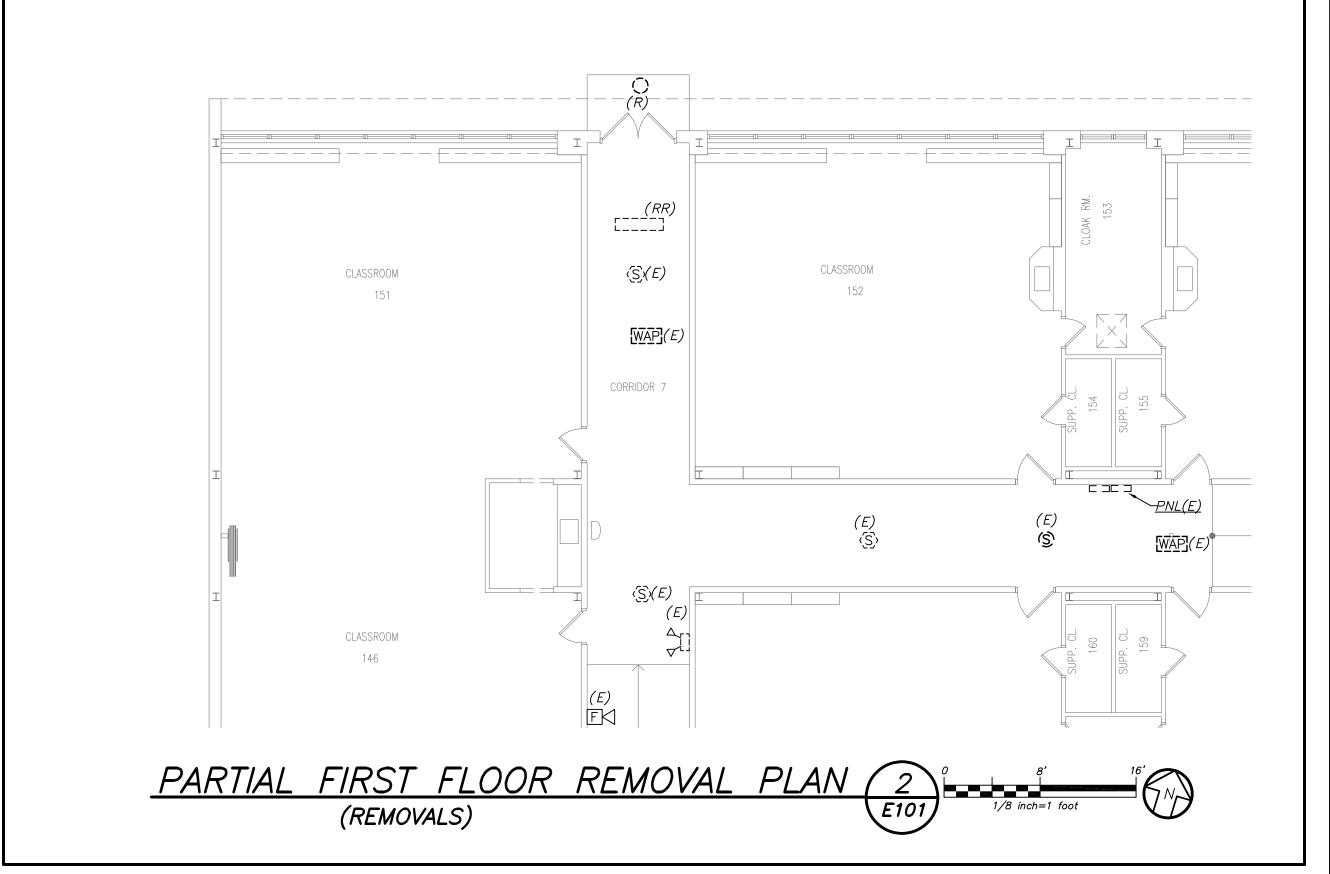
GROUND FAULT INTERRUPTER

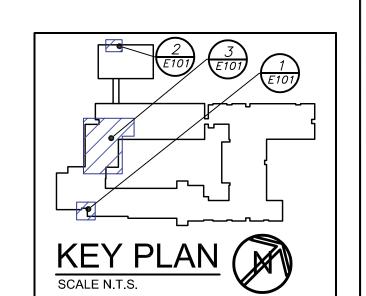
BEFORE FABRICATION THIS CONTRACTOR SHALL

VERIFY ALL MEASUREMENTS AND CONDITIONS ON





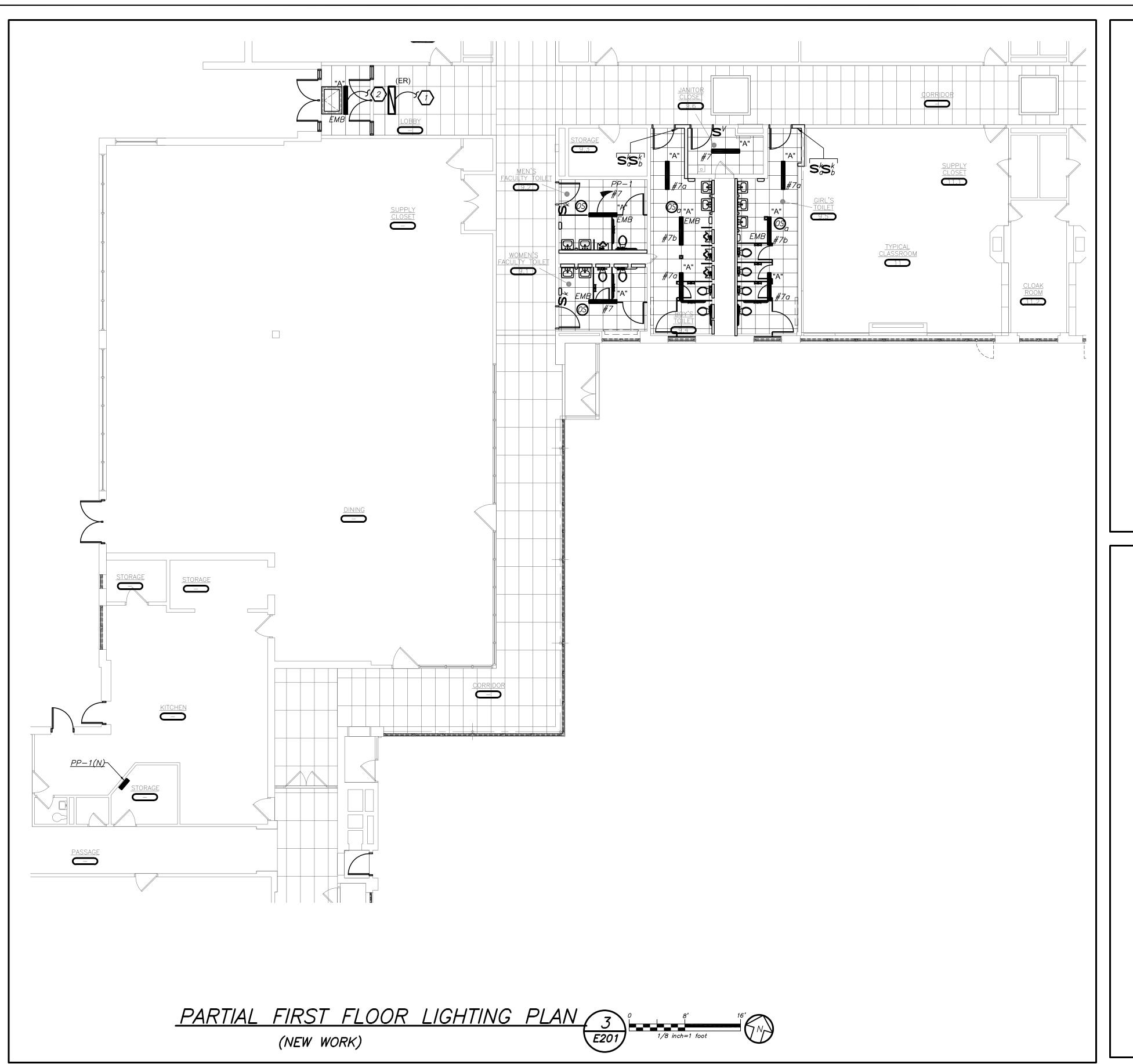


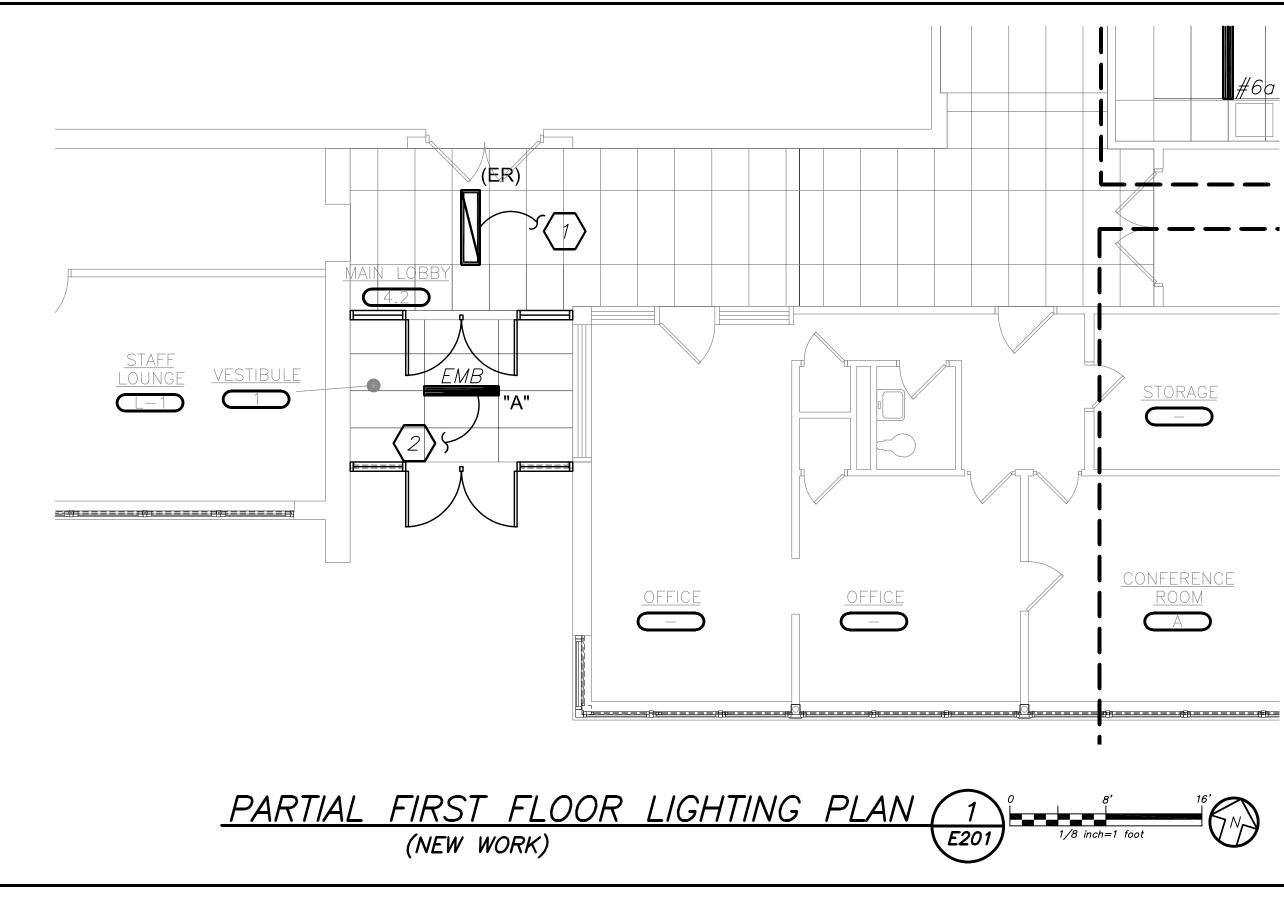


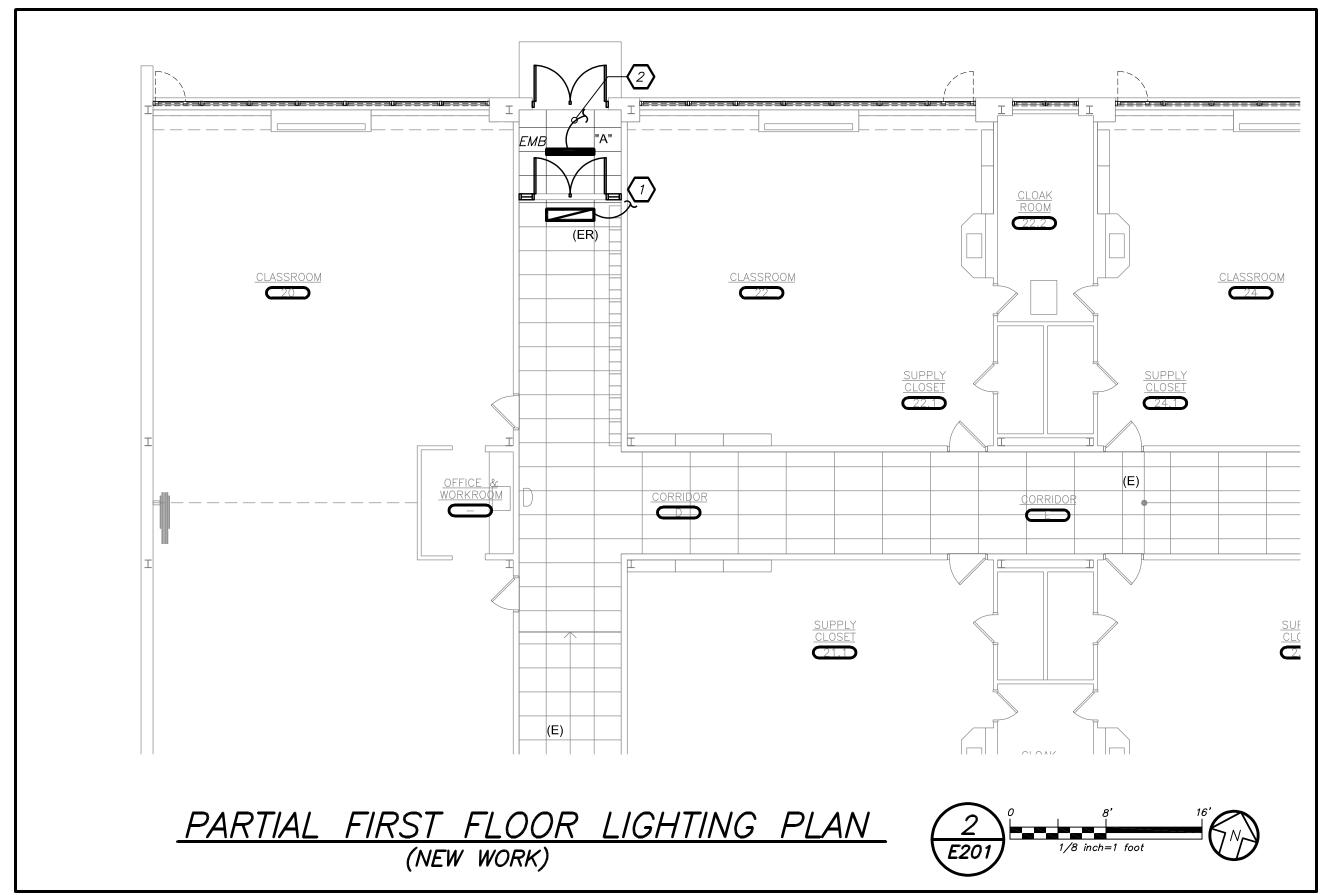
01-14-2022 07-14-2021 SED ADDENDUM / 02-23-2021 11-06-2020 100% C.D. SUBMISSION DATE ISSUED TO SHEET SIZE 30"x42" SCALE AS NOTED DRAWN BY
BGA FILE NO. 19359.00

S.E.D. CONTROL NUMBER:

66-23-00-01-0-029-012





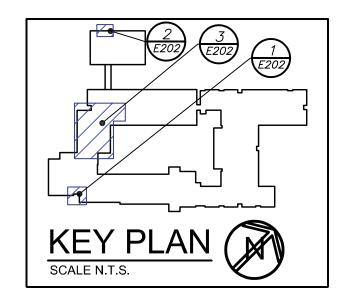


## **WORK NOTES:**

- EXISTING LIGHTING TO BE REMOVED AND RE—INSTALLED IN SAME LOCATION TO ACCOMMODATE NEW CEILING. CONTRACTOR TO CONNECT LIGHT FIXTURE ON EXISTING LIGHTING CIRCUIT AND CONTROLS.
- igg(2igg) CIRCUIT NEW LIGHT FIXTURES ON EXISTING LIGHTING CIRCUIT AND CONTROLS IN THIS AREA. CONTRACTOR TO CONFIRM CIRCUIT # IN FIELD.

## LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. GANG TOILETS ARE CONTROLLED VIA MANUAL WALL MOUNTED KEY SWITCH AND OCCUPANCY SENSORS. WALL SWITCHES CONSISTS OF 'ON' AND 'OFF'. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO ON — AUTO OFF FEATURE WHICH SHALL TURN LIGHTS OFF AFTER 20 MINUTES WHEN THE BATHROOM IS VACANT. SELF CONTAINED BATTERY PACKS TO OVERRIDE ALL CONTROLS IN EVENT OF EMERGENCY.



01-14-2022 07-14-2021 02-23-2021 11-06-2020 100% C.D. SUBMISSION DATE SHEET SIZE 30"x42" SCALE AS NOTED DRAWN BY
BGA

S.E.D. CONTROL NUMBER:

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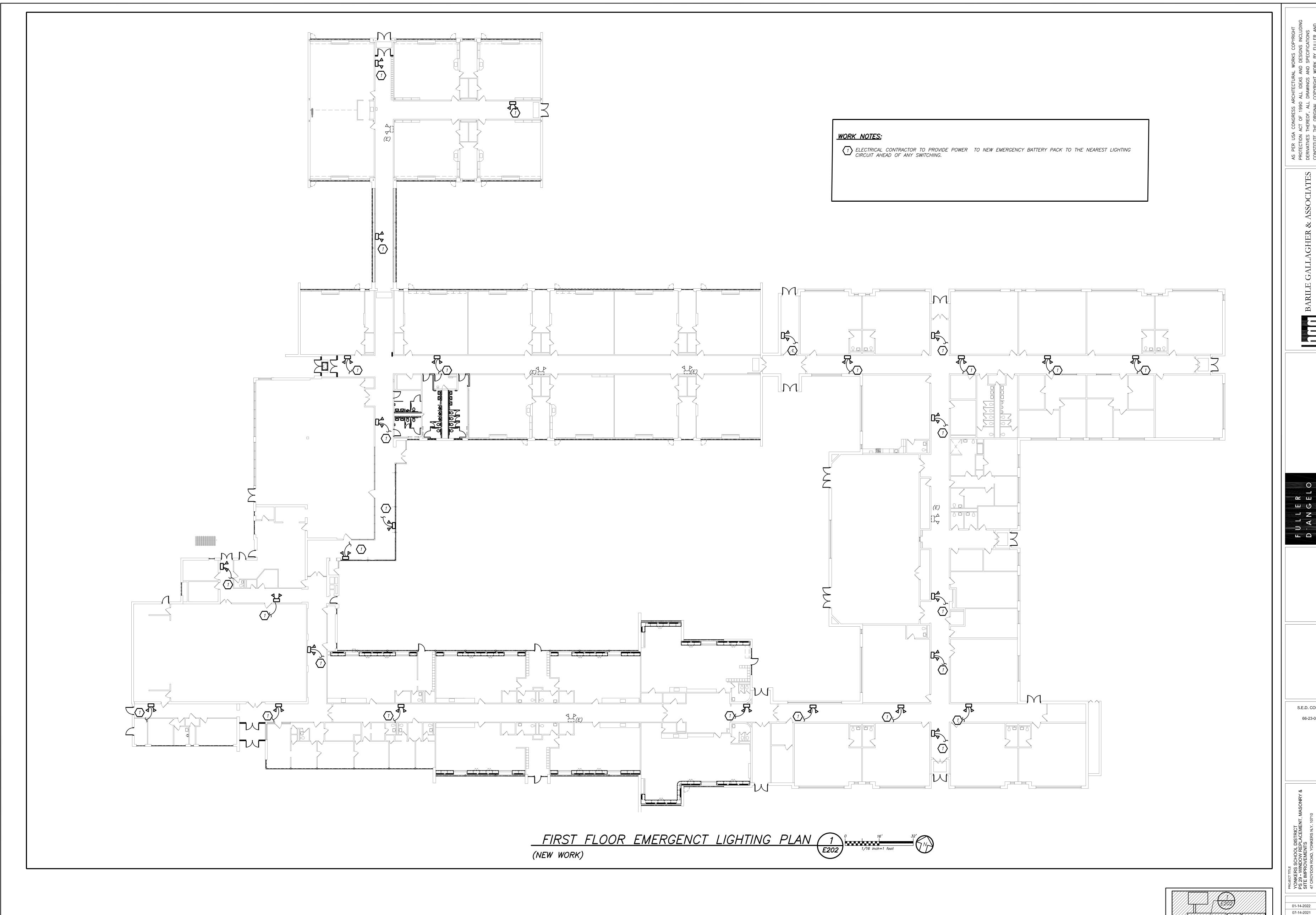
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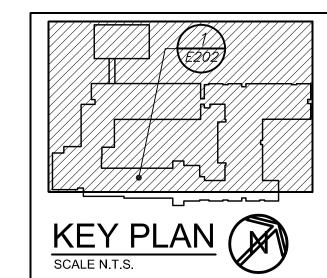
ISSUED TO

19359.00

FILE NO.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON





S.E.D. CONTROL NUMBER:

66-23-00-01-0-029-012

SED ADDENDUM

ISSUED TO

19359.00

11-06-2020 100% C.D. SUBMISSION

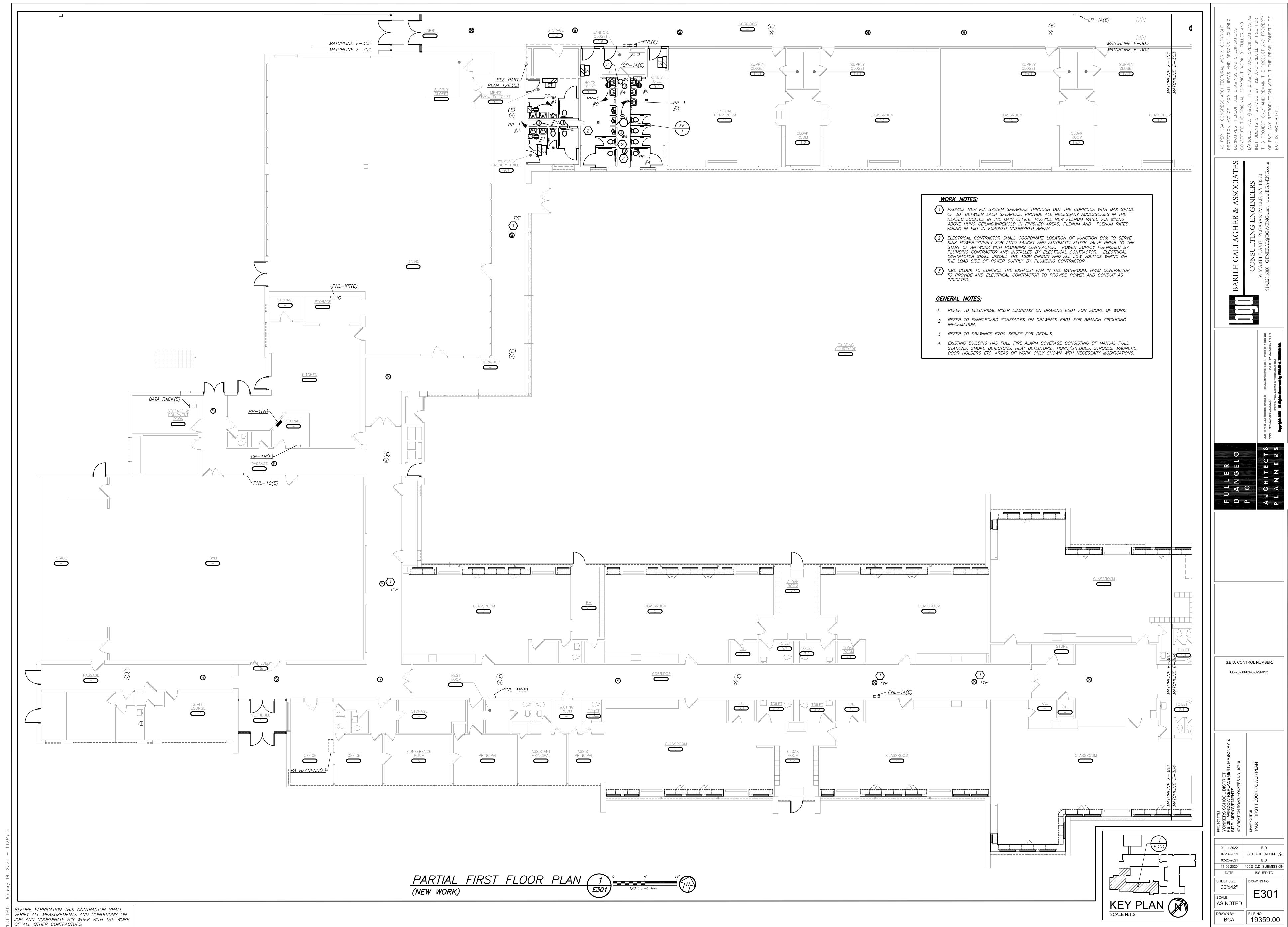
DATE

SHEET SIZE 30"x42"

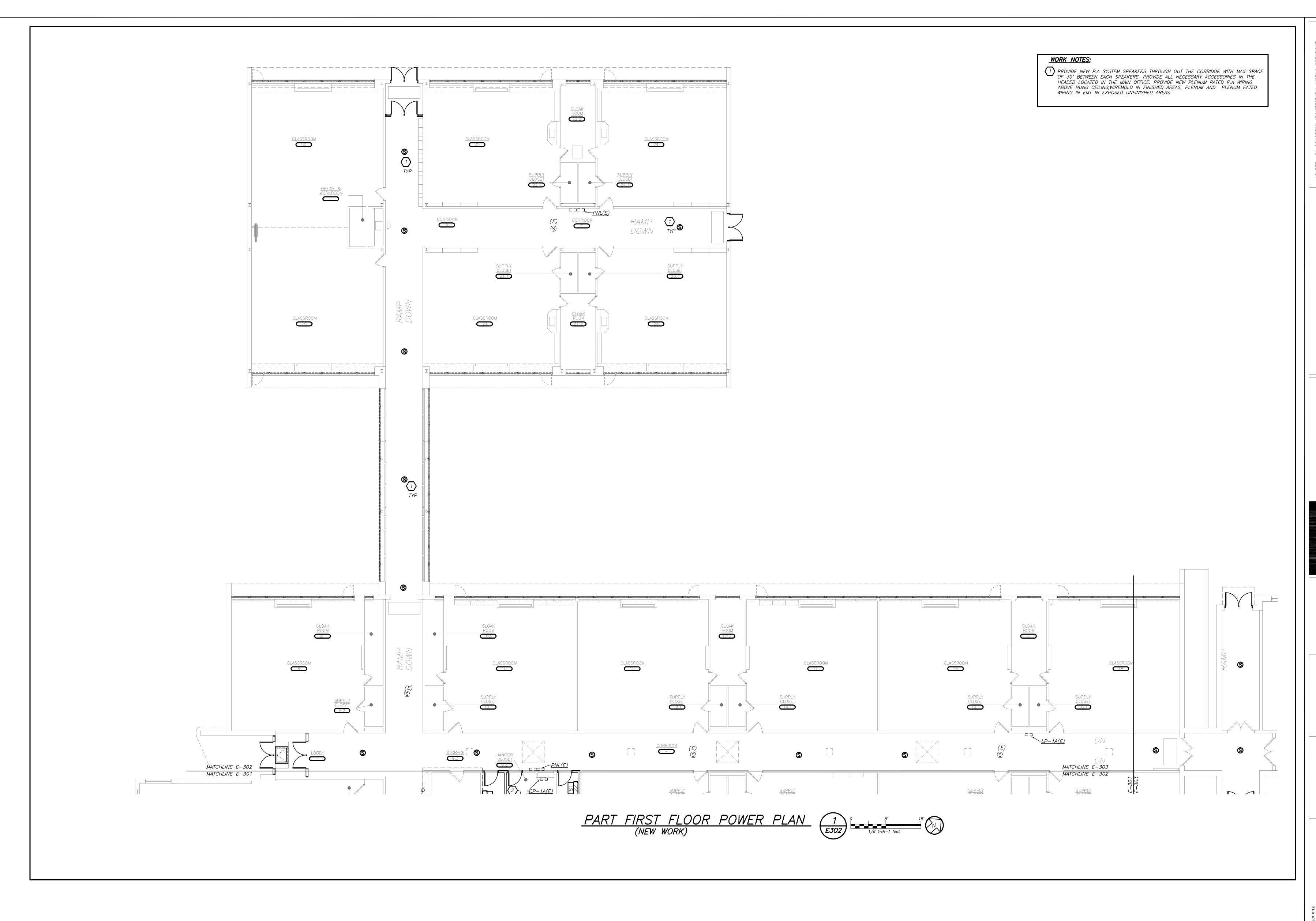
SCALE AS NOTED

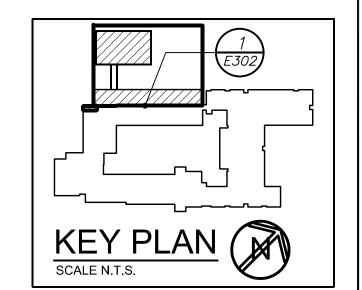
DRAWN BY
BGA

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS FILE: Y:\YONKERS PUBLIC SCHOOLS\YPS — School 29 — Renovations (1947.00)\Drawings\Electrical\194700E202.dwg



FILE: Y:\YONKERS PUBLIC SCHOOLS\YPS — School 29 — Renovations (1947.00)\Drawings\Electrical\194700E301.dwg





JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS FILE: Y:\YONKERS PUBLIC SCHOOLS\YPS — School 29 — Renovations (1947.00)\Drawings\Electrical\194700E302.dwg

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON

01-14-2022 07-14-2021 02-23-2021 11-06-2020 100% C.D. SUBMISSION DATE SHEET SIZE 30"x42" SCALE AS NOTED DRAWN BY
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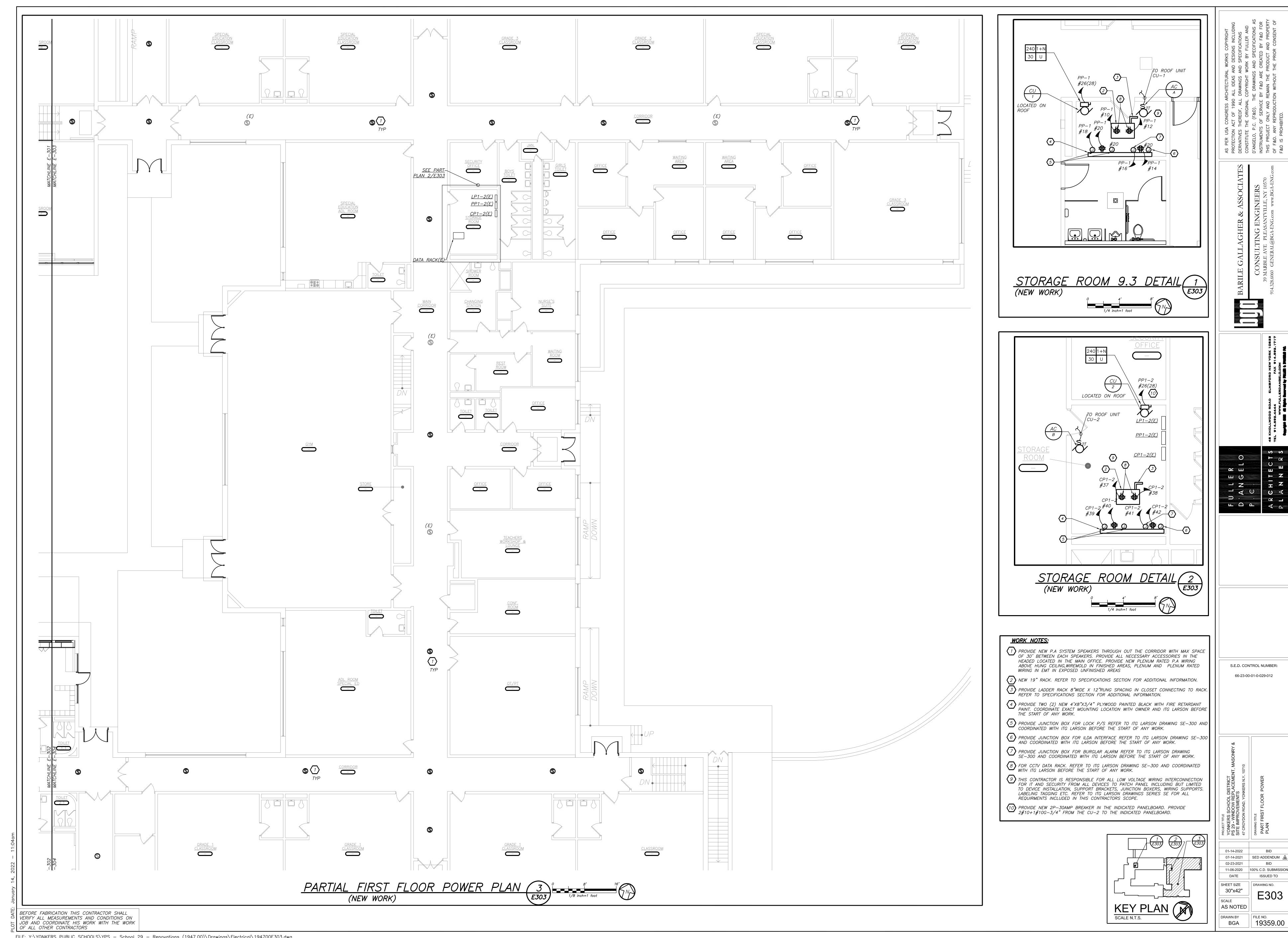
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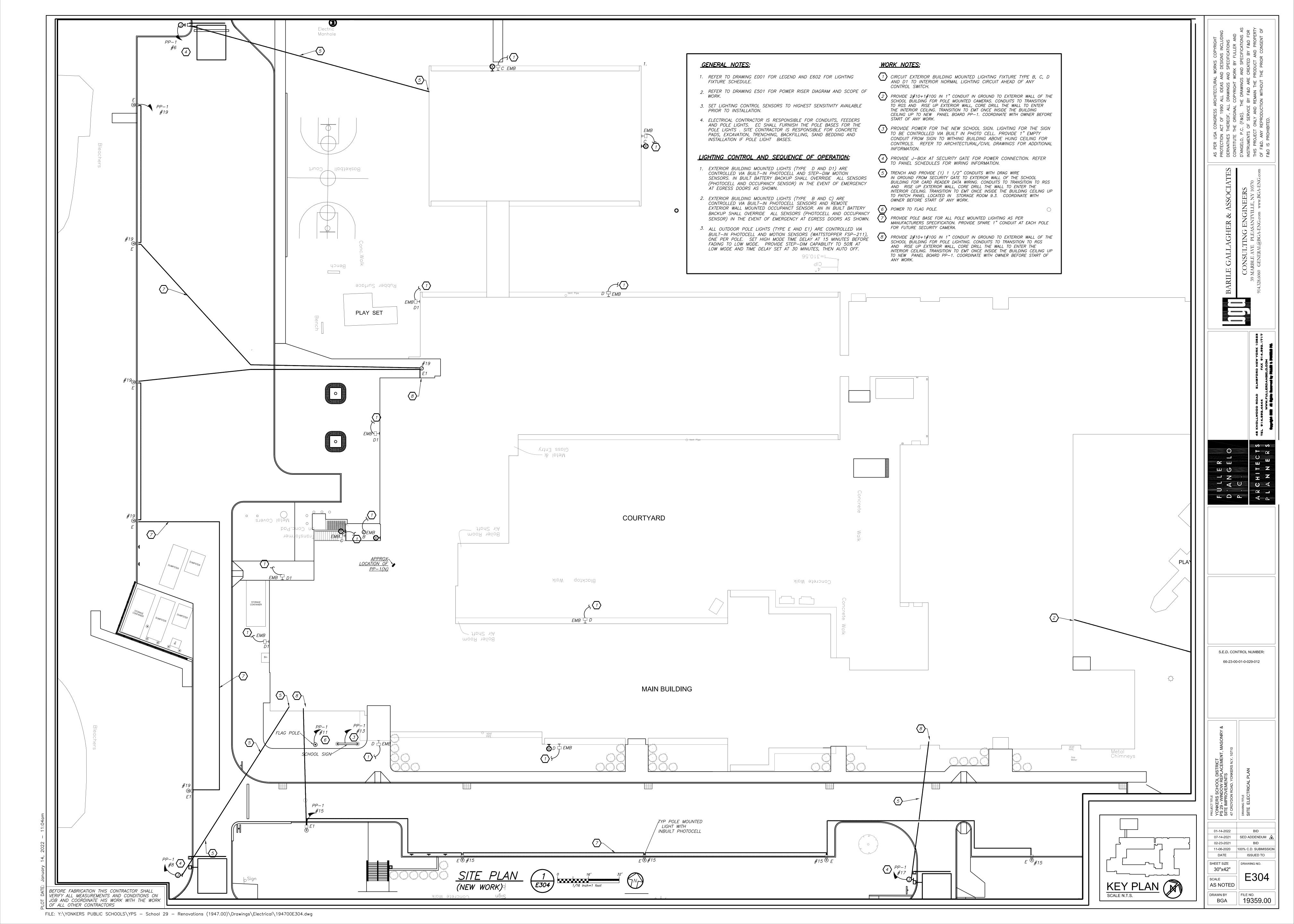
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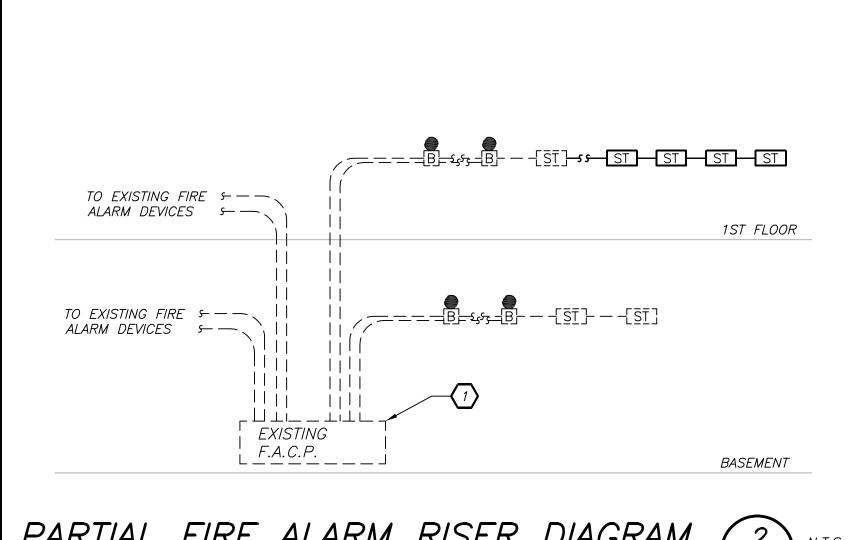
19359.00

FILE NO.



FILE: Y:\YONKERS PUBLIC SCHOOLS\YPS — School 29 — Renovations (1947.00)\Drawings\Electrical\194700E303.dwg





## PARTIAL FIRE ALARM RISER DIAGRAM

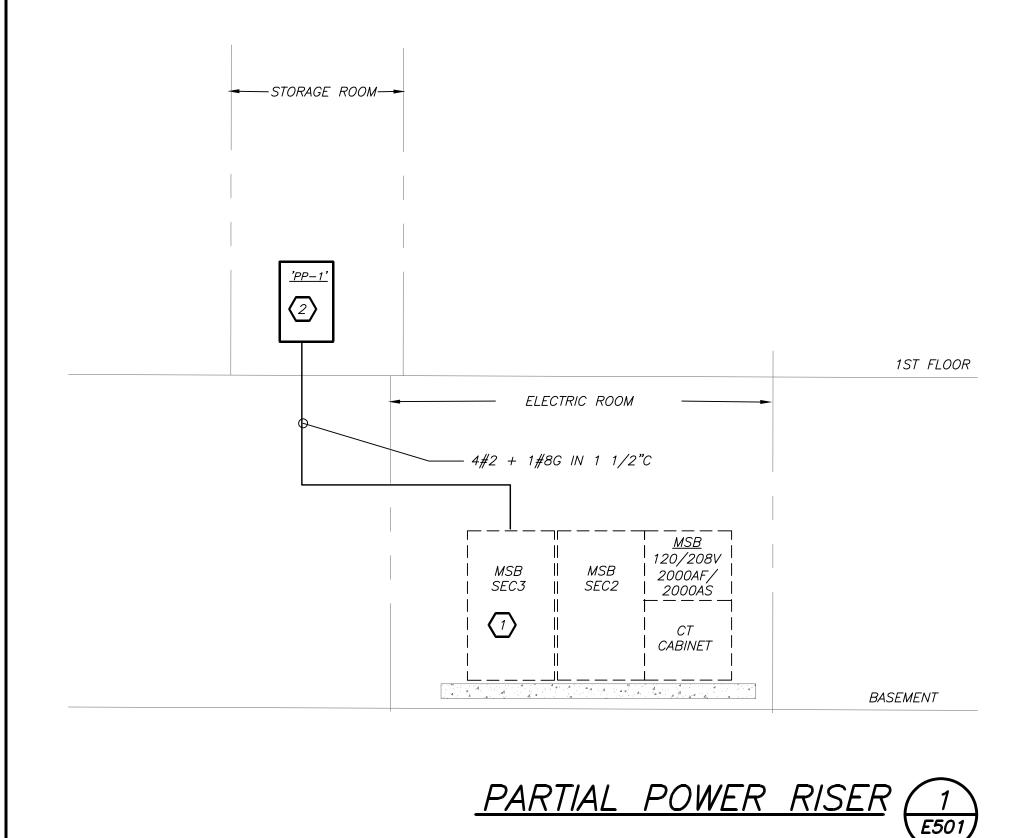
### FIRE ALARM RISER WORK NOTES:

- EXISTING FIRE ALARM CONTROL PANEL (CYPRUS PYRTRONICS) LOCATED IN LOWER LEVEL BOILER ROOM. CONTRACTOR TO PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION. INCLUDE UPDATING DATA BASE, PROGRAMMING AND TESTING.
- 2) INTERCEPT EXISTING CONDUIT AND WIRING PROVIDING POWER TO FACP. PROVIDE NEW SPLICE BOX AND EXTEND WITH NEW CONDUIT AND WIRE TO FEED FROM GENERATOR PANEL 'OP-DP' AS SHOWN.

## FIRE ALARM RISER GENERAL NOTES:

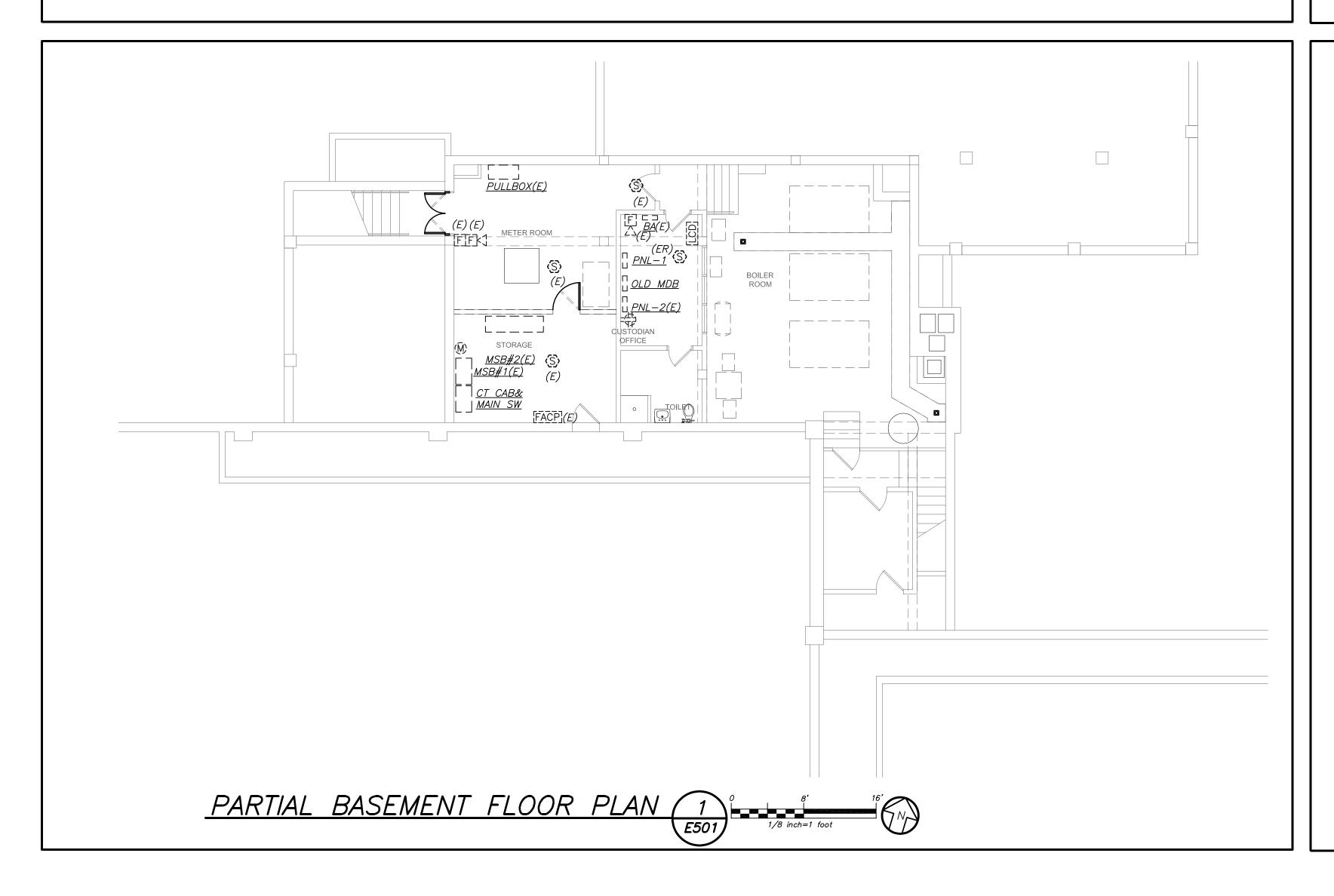
- 1. FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION FROM MANUFACTURER. 2. PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
- 3. IN AREAS WHERE DUST AND DIRT WILL BE AIRBORNE DURING DEMOLITION AND CONSTRUCTION THE CONTRACTOR SHALL PROVIDE PLASTIC WRAP OVER SMOKE DETECTORS AND THEN REMOVE ONCE SPACE IS CLEAN.
- 4. UNLESS DIRECTED OTHERWISE BY FIRE ALARM SYSTEM MANUFACTURER FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):
- HORN WIRING #16 AWG TWISTED STROBE WIRING — #14 AWG TWISTED
  SIGNAL WIRING — #14 AWG TWISTED/SHIELDED
- THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
- A. A MINIMUM TEMPERATURE RATING OF 150 C B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
- THE COLOR OF THE CABLE SHALL BE RED THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE) WHEN CONDUIT IS USED. SEE NOTE 5 FOR ADDITIONAL CLARIFICATION.
- F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.
- CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
- 5. PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V-700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN.
- 3/4" CONDUIT. 6. STROBES SHALL HAVE A MINIMUM LIGHT OUTPUT OF 75 CANDELA AND A FLASH RATE OF 1-3 HZ.
- 7. WALL MOUNTED BELL/STROBE UNITS SHALL NOT HAVE ANY OTHER DEVICES OR APPURTENANCES WITHIN 5 FEET OF THE DEVICE. THE ENTIRE LENS OF THE UNIT SHALL NOT BE LESS THAN 80", AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR, WHILE MAINTAINING 6" BELOW THE CEILING . DEVICES SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS. PROVIDE DOUBLE DEEP DEVICE BOX IN WALL.
- 8. SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP, EXHAUST FANS, ETC.) OF 2000 CFM OR GREATER, SHALL BE PERFORMED VIA A RÈLAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDÍNG AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING 'ATC' SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
- 9. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
- 10. ALL PULL STATIONS SHALL BE PROVIDED WITH CLEAR PROTECTIVE LEXAN COVER. COVER SHALL BE AS MANUFACTURED BY SAFETY TECHNOLOGY INTERNATIONAL INC. CAT. #STI 1100 STOPPER II.
- 11. COORDINATE F.A WORK WITH F.A VENDOR.
- 12. VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS. 13. ALL DEVICES SHALL BE SUPERVISED AS PER N.F.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.

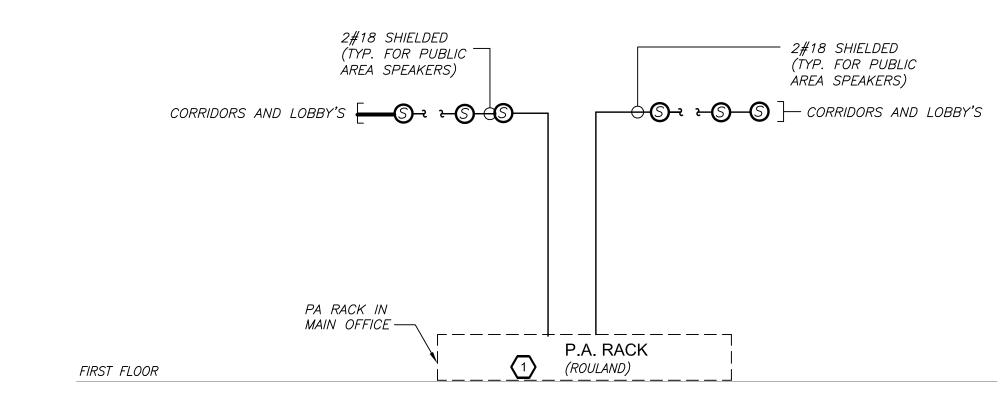
14. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.



### **WORK NOTES:**

- 1) PROVIDE ONE (1) NEW 3P-100AMP BREAKER IN AVAILABLE SPACE. MATCH EXISTING FRAME SIZE AND TYPE. PROVIDE ALL REQUIRED AND NECESSARY PROVISIONS AND ACCESSORIES IN EXISTING DISTRIBUTION BOARD. PROVIDE PROPER LABELING FOR IDENTIFICATION.
- (2) PROVIDE NEW 120/208V PANELBOARD. REFER TO PANEL SCHEDULE FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT.





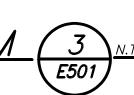
## GENERAL NOTES:

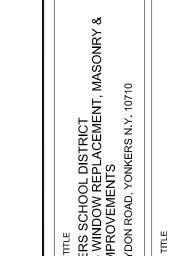
- 1. VERIFY EXACT QUANTITY AND LOCATION OF DEVICES ON PLAN DRAWINGS.
- 2. WIRING TYPES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURER.
- 3. ALL PROGRAMMING AND FINAL CONNECTIONS TO P.A. SYSTEM RACK SHALL BE BY SYSTEM MAINTENANCE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS SHALL BE BY ELECTRICAL CONTRACTOR.
- 4. SPEAKERS SHALL MATCH EXISTING TYPE. VERIFY WATTAGE TAP REQUIREMENTS IN FIELD.

## **WORK NOTES:**

- PROVIDE NEW ZONE CARD, AMPLIFIER, ETC. AS REQUIRED FOR COMPLETE INSTALLATION. EXISTING SYSTEM IS BOGAN AND IS LOCATED IN THE MAIN OFFICE 138.
- (2) INTERCEPT EXISTING CONDUIT AND WIRING PROVIDING POWER TO PA RACK. PROVIDE NEW SPLICE BOX AND EXTEND WITH NEW CONDUIT AND WIRE TO FEED FROM GENERATOR PANEL 'OP-DP' AS SHOWN.

PUBLIC ADDRESS SYSTEM RISER DIAGRAM





DRAWN BY

BGA

PROJECT TITL YONKERS PS 29 - WI SITE IMPE	DRAWING TITL POWER
01-14-2022	BID
07-14-2021	SED ADDENDUM 🛕
02-23-2021	BID
11-06-2020	100% C.D. SUBMISSION
DATE	ISSUED TO
SHEET SIZE	DRAWING NO.
30"x42"	F501
SCALE	
AS NOTED	

FILE NO.

19359.00

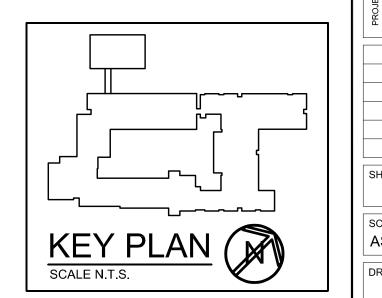
S.E.D. CONTROL NUMBER:

66-23-00-01-0-029-012

**—** 7

NE	<b>EW</b>	·	ELEC	TR	YC/	AL A	PA	NE	L S	<u>CH</u>	ED	UL	E			
PNL	: PP-1	1	MOUNTING:	SURI	FACE	<u>x</u>	N	AIN L	.UGS (	ONLY		MAIN	I C BKR-	GROUND	BUS:	<u>x</u>
208Y	/120,	3 PHASE, 4 WIRE	(NEMA 1)	FI	LUSH			DOL	JBLE L	UGS		۱ ،	00A/3P	ISOLATED GROUND	BUS:	
14	,0001	MIN A.I.C. SYM			мсс			FEED	THRU	LUG		1	I BUS -	7	VSS:	
NEU	TRAL:	100%					Si	HUNT	TRIP I	M A IN		-	100A	NUMBER OF PO	DLES:	<u>42</u>
СКТ	TRIP	LOAD	WIRE	CND.	KV	A / PH	ASE		KV	4 / PH.	ASE	CND.	WIRE	LOAD	TRIP	СКТ
No.	(AMP)			(IN.)	Α	В	С		Α	В	С	(IN.)			(AMP)	No.
1	20	BATH GFI	2#12+1#12G	3/4	0.50				0.50			3/4	2#12+1#12G	AUTO FAUCET/FLUSH	20	2
3	20	EF-1	2#12+1#12G	3/4		0.20		1		0.20		3/4	2#12+1#12G	AUTO FAUCET/FLUSH	20	4
5	20	SPARE	-	-				1			0.80	3/4	2#12+1#12G	SECURITY GATES	20	6
7	20	BATHROOM LIGHTS	2#12+1#12G	3/4	0.40			1	0.50			-	2#12+1#12G	SECURITY GATES	20	8
9	20	BATH GFI	2#12+1#12G	3/4		0.80				0.30		3/4	2#12+1#12G	IT OUTLETS	20	10
11	20	FLAG POLE	2#12+1#12G	3/4			0.30				0.30	3/4	2#12+1#12G	IT OUTLETS	20	12
13	20	SCHOOL SIGN	2#12+1#12G	3/4	0.40				0.30			3/4	2#12+1#12G	IT OUTLETS	20	14
15	20	POLE LIGHTS	2#12+1#12G	3/4		0.50				0.30		3/4	2#12+1#12G	IT OUTLETS	20	16
17	20	SECURITY GATES	2#12+1#12G	3/4			0.50				0.30	3/4	2#12+1#12G	IT OUTLETS	20	18
19	20	POLE LIGHTS	2#12+1#12G	3/4	1.00				0.30			3/4	2#12+1#12G	IT OUTLETS	20	20
21	20	SITE CAMERS	2#12+1#12G	3/4		0.10		1		0.10		3/4	2#12+1#12G	TC FOR BATH EXHAU	20	22
23	20	SPARE	-	-								-	-	SPARE	20	24
25	20	SPARE	-	-								-	-	SPARE	20	26
27	20	SPARE	-	-				1				-	-	SPARE	20	28
29	20	SPARE	-	-				1				-	-	SPARE	20	30
31	20	SPARE	-	-								-	-	SPARE	20	32
33	20	SPARE	-	-								-	-	SPARE	20	34
35	20	SPARE	-	-								-	-	SPARE	20	36
37	20	SPARE	-	-								-	-	SPARE	20	38
39	20	SPARE	-	-								-	-	SPARE	20	40
41	20	SPARE	-	-								-	-	SPARE	20	42
		SUBTOTALS			2.30	1.60	0.80		1.60	0.90	1.40			SUBTOTALS		
		TOTAL LOADS	•	3.9	KVA	PHAS	SE A						LIGHTING:	4.80 KVA		
				2.5	KVA	PHAS	SE B					RE	CEPTACLE:	0.00 KVA	1	
				2.2	KVA	PHAS	SE C						KITCHEN:	0.00 KVA	1	
		TOTAL CONN. LOAD		8.6	KVA	24.0	Α						MOTOR:	1.50 KVA	1	
		TOTAL DEMAND LOA	D	8.6	KVA	24.0	Α						POWER:	2.30 KVA	1	
													TOTAL:	8.60 KVA	1	

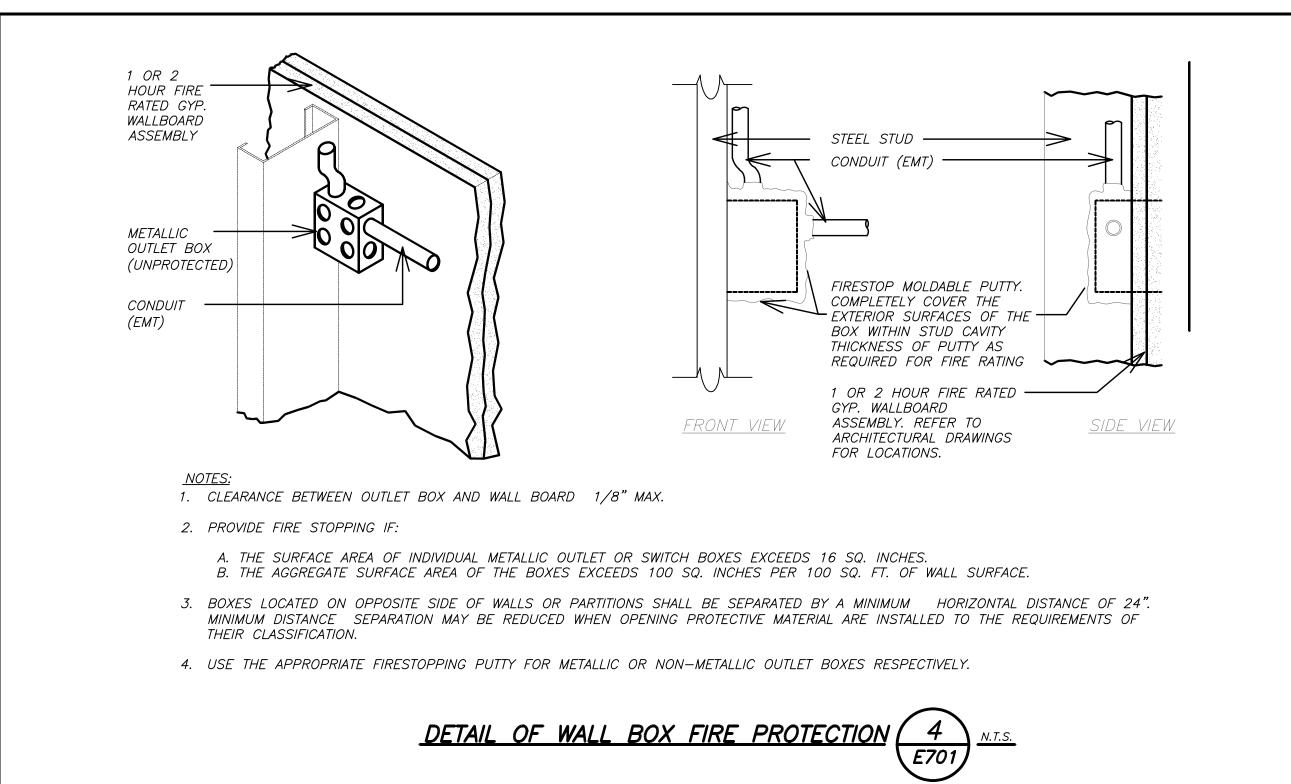
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
"A"	RECESSED	41W LED UNV.	RECESSED 4' ARCHITECTURAL LINEAR DUAL T—BAR LED FIXTURE, 4' LENGTH WITH 1250 LUMENS/FT, 80 CRI, 3500K COLOR TEMPERATURE, WHITE POWDER FINISH.	ARON LIGHTING CAT.# UOT1-F15/16-4FA-1250-B2 35K8-UNV-DM-W
"A" EMB	RECESSED	41W LED UNV.	SAME AS TYPE 'A' EXCEPT INCLUDE EMERGENCY BATTERY BACK UP	ARON LIGHTING CAT.# UOT1-F15/16-4FA-1250-B2 -35K8-UNV-DM-W-E12W
<b>⊘</b> "B"  EMB	CEILING/ SURFACE MTD.	25W LED 120V	13" ROUND CEILING SURFACE MOUNTED 25 WATT, 2300 LUMENS, 80 CRI, 3500K COLOR TEMPERATURE, 0—10V TO 10% DIMMING. OPAL LENS WITH BLACK FINISH. INCLUDE BUILT—IN OCCUPANCY SENSOR, PHOTOELECTRIC SWITCH AND EMERGENCY BATTERY PACK.	LUMINAIRE LED CAT.# ARV-MINI-25W-35K-120V OP-BLK-EMB310-SHCAB-PC-OCCFA -TXSD
"C" <b>1</b> <i>EMB</i>	WALL/ SURFACE MTD.	15W LED 120V	13" SURFACE MOUNTED 25 WATT, 2300 LUMENS, 80 CRI, 3500K COLOR TEMPERATURE, 0—10V TO 10% DIMMING. OPAL LENS WITH BLACK FINISH. INCLUDE BUILT—IN OCCUPANCY SENSOR, PHOTOELECTRIC SWITCH AND EMERGENCY BATTERY PACK.	LUMINAIRE LED  CAT# ARV—YRV—MIN1—25W—35K—120VT  OP—BLK—EMB310—SHCAB—PC—OCCFA —TXSD
■ "D"  EMB	WALL/ SURFACE MTD.	36W LED UNV.	WALL SURFACE MOUNTED EXTERIOR LED FLOOD LIGHT WITH TYPE 3 DISTRIBUTION, 3000 LUMENS, 70 CRI, 4000K COLOR TEMPERATURE, 0—10V DIMMING. BLACK FINISH, INCLUDE 10W EMERGENCY BATTERY PACK,PHOTO CELL AND STEP DIM MOTION SENSOR. EC TO PROVIDE PROGRAMMING AND (1) WATTSTOPPER FSIR—100 HAND HELD PROGRAMMER.	H.E WILLIAMS  CAT.#VWP-H-L30-7-40-T3-BLK-SDGI EM/10WC-OCCWS  FSP-211-L-FSIR-100-DIM-UNV
"D1"  **EMB**	WALL/ SURFACE MTD.	36W LED UNV.	WALL SURFACE MOUNTED EXTERIOR LED FLOOD LIGHT WITH TYPE FT DISTRIBUTION, 3000 LUMENS, 70 CRI, 4000K COLOR TEMPERATURE, 0—10V DIMMING. BLACK FINISH, INCLUDE 10W EMERGENCY BATTERY PACK,PHOTO CELL AND STEP DIM MOTION SENSOR. EC TO PROVIDE PROGRAMMING AND (1) WATTSTOPPER FSIR—100 HAND HELD PROGRAMMER.	H.E WILLIAMS  CAT.#VWP-H-L30-7-40-TFT-BLK-SDO EM/10WC-OCCWS FSP-211-L-FSIR-100-DIM-UNV
"E"	POLE	70W LED 120V	POLE MOUNTED EXTERIOR LED LIGHT FIXTURE, TYPE 2 DISTRIBUTION, 64 LED, 350MA, 4000K CCT WITH 5200 LUMENS. INCLUDE 12' POLES, BUILT—IN MOTION AND PHOTO SENSORS VIA WATTSTOPPER FSP—211. EC TO PROVIDE PROGRAMMING AND (1) WATTSTOPPER FSIR—100 HAND HELD PROGRAMMER.	CAT.# AER-VLED-II-64LED-350MA-
"E1"	POLE	70W LED 120V	POLE MOUNTED EXTERIOR LED LIGHT FIXTURE, TYPE 3 DISTRIBUTION, 64 LED, 350MA, 4000K CCT WITH 5200 LUMENS. INCLUDE 12' POLES, BUILT—IN MOTION AND PHOTO SENSORS VIA WATTSTOPPER FSP—211. EC TO PROVIDE PROGRAMMING AND (1) WATTSTOPPER FSIR—100 HAND HELD PROGRAMMER.	CAT.# AER-VLED-III-64LED-350MA-
"E2"	POLE	70W LED 120V	POLE MOUNTED EXTERIOR LED LIGHT FIXTURE, TYPE 4 DISTRIBUTION, 64 LED, 350MA, 4000K CCT WITH 5200 LUMENS. INCLUDE 14' POLES, BUILT—IN MOTION AND PHOTO SENSORS VIA WATTSTOPPER FSP—211. EC TO PROVIDE PROGRAMMING AND (1) WATTSTOPPER FSIR—100 HAND HELD PROGRAMMER.	CAT.# ER-VLED-IV-64LED-525MA-
<b>o</b> "F"	FLAP POLE LIGHT	5W LED 120V	4" BECON PLUS DUAL LIGHT 570 LUMENS, 8" DIA BECON SIZE, 35' FLAGPOLE.	AMERICAN BECON HALYARD SERIES CAT.# ABW2-354P-SAT
1	WALL MOUNT	6 WATTS LED UNV	L.E.D. STEEL HOUSING EXIT COMBINATION W/HEADS WITH 90 MINUTE EMERGENCY BATTERY PACK	ENCORE LIGHTING #LC8-2-PER DWG
<b>②</b> /፟፟	CEILING /WALL MOUNT	1–5W LED UNV.	LED EXIT LIGHTS, STEEL HOUSING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SELF POWERED MODEL WITH 90 MINUTE BATTERY.	ENCORE LIGHTING #LSE-6-R-1/U
♥ WP	EXTERIOR WALL MOUNT	1 – 5 W LED UNV.	NEMA 4X EXTERIOR WEATHERPROOF LED EXIT LIGHTS, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SELF POWERED MODEL WITH 90 MINUTE BATTERY.	ENCORE LIGHTING #LE4X-6-R-1/U

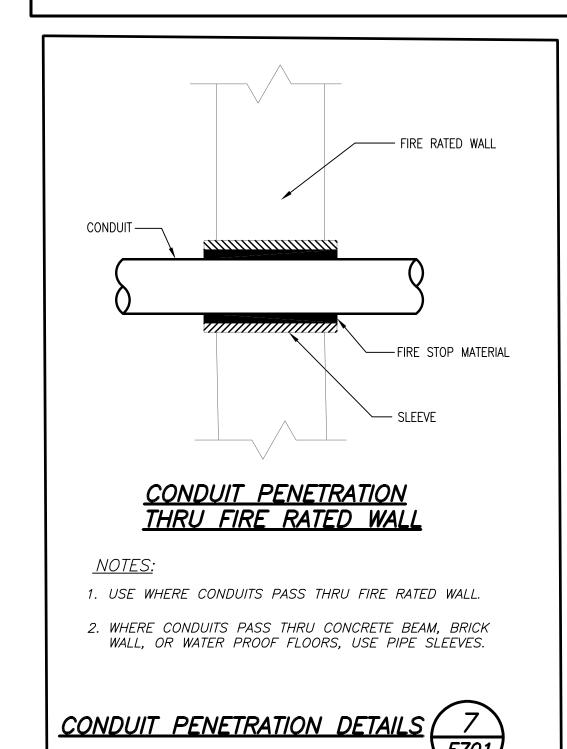


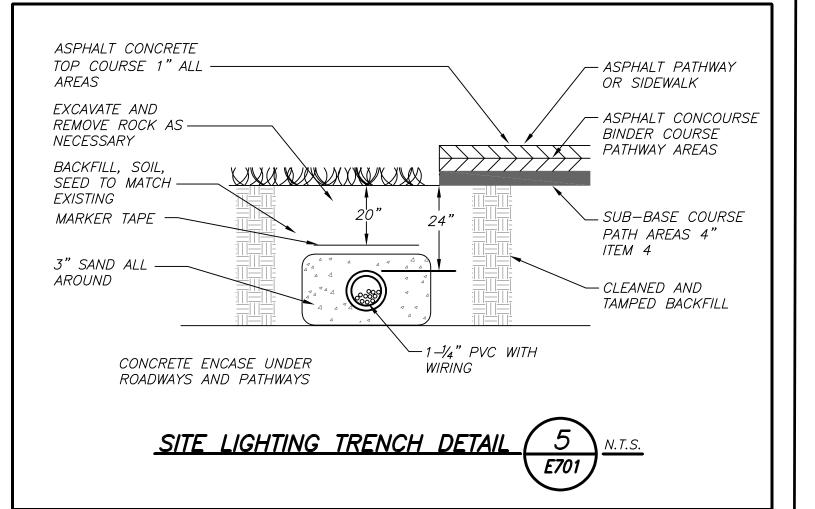
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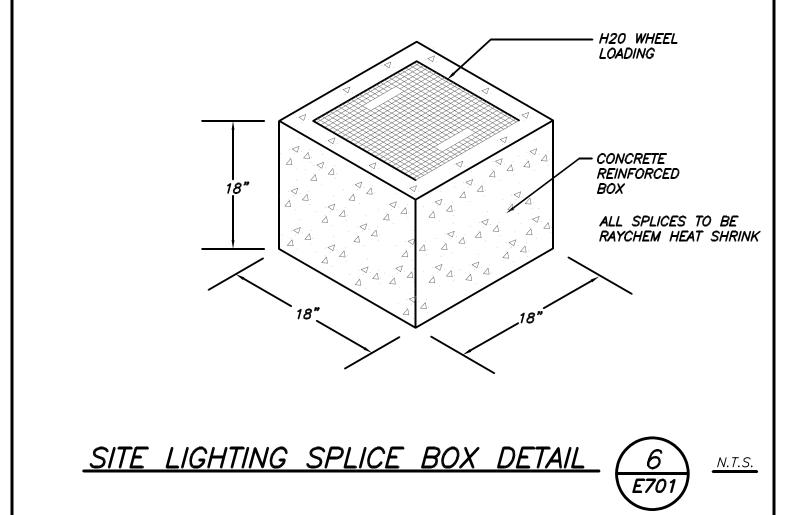
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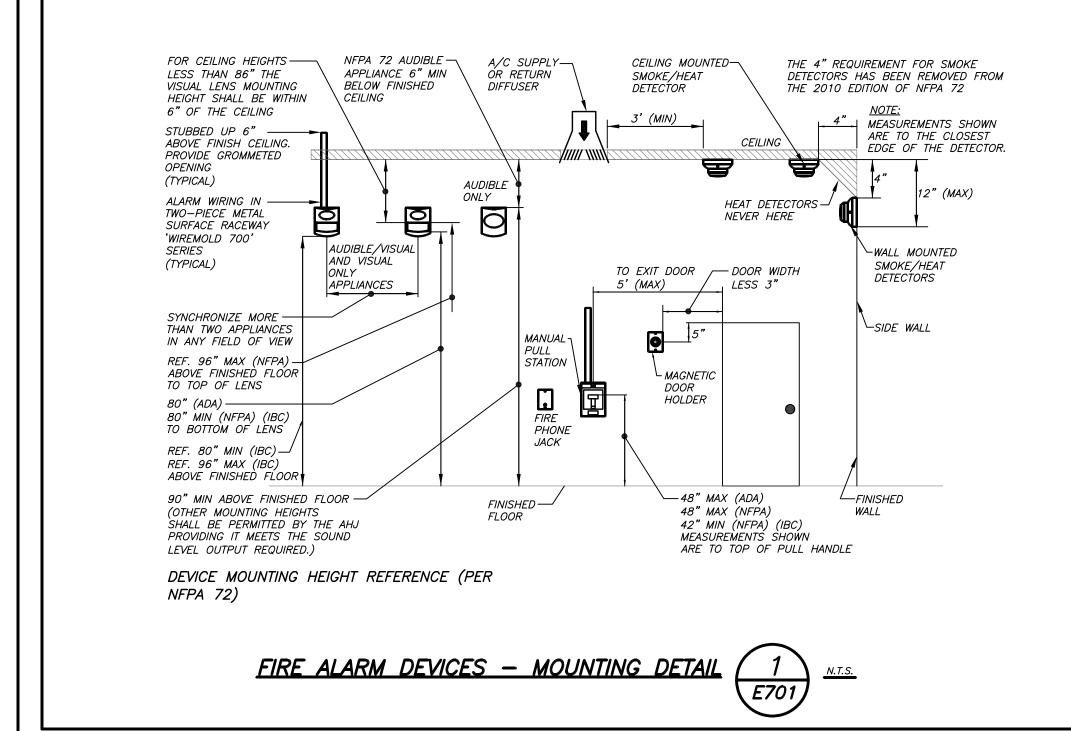
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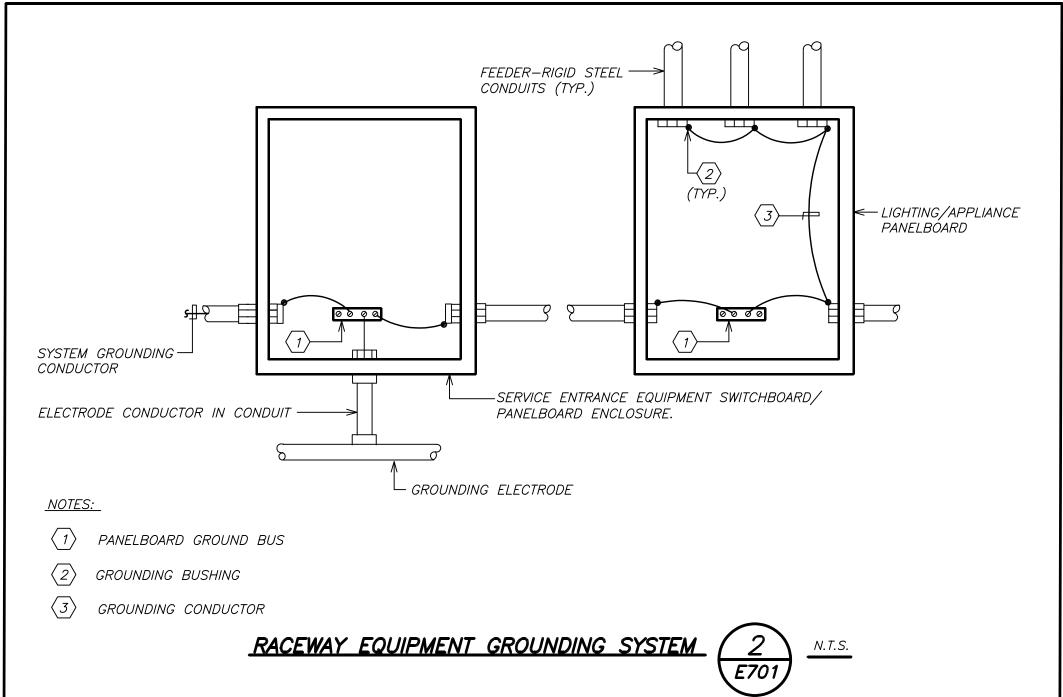


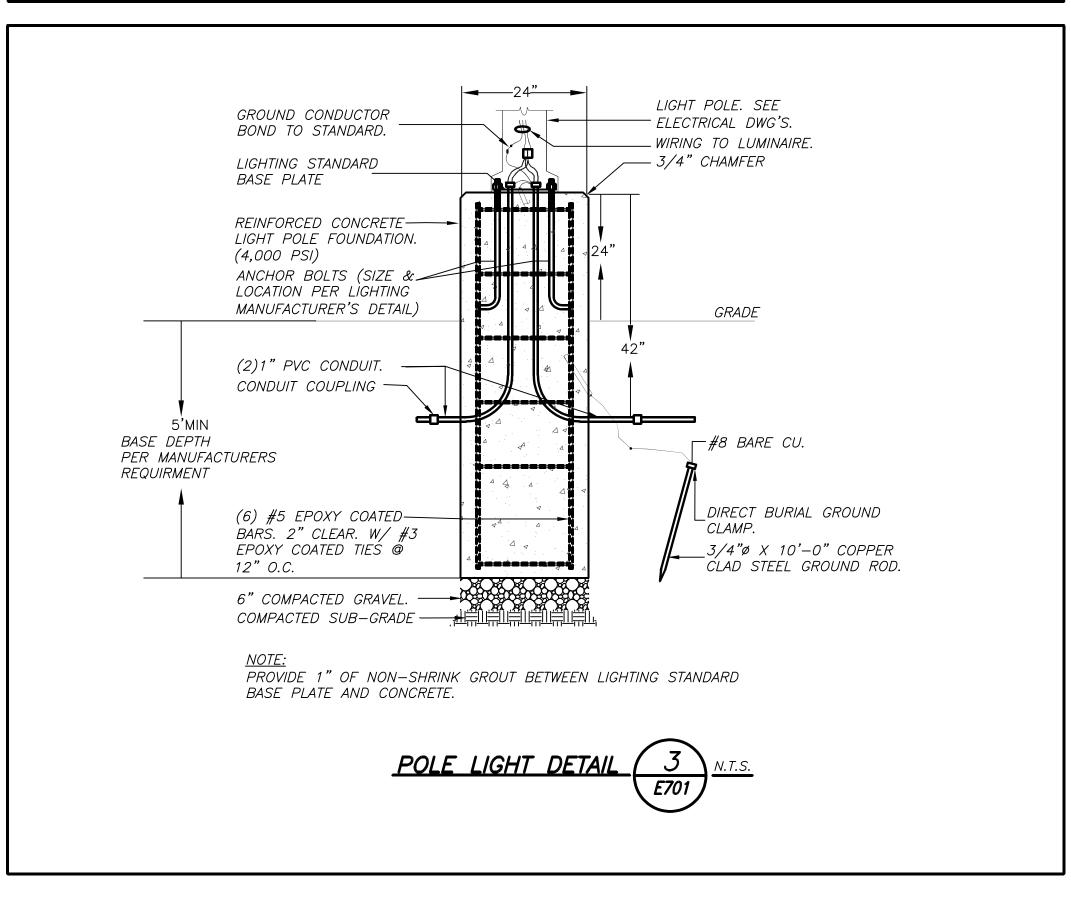


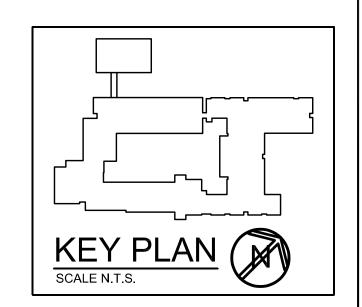












01-14-2022 07-14-2021 SED ADDENDUM 🔏 11-06-2020 100% C.D. SUBMISSION DATE ISSUED TO SHEET SIZE 30"x42" SCALE AS NOTED DRAWN BY FILE NO. 19359.00 BGA

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S.E.D. CONTROL NUMBER:

66-23-00-01-0-029-012

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## WESTCHESTER HILLS SCHOOL 29

47 CROYDON RD YONKERS, NY 10710

## SECURITY UPDATE PROJECT

## SECURITY DRAWING LIST

SE-000 COVER SHEET / LEGEND & INDEX

SECURITY UPDATE PROJECT - SITE PLAN SE-101A SECURITY UPDATE PROJECT - FIRST FLOOR - A SECURITY UPDATE PROJECT - FIRST FLOOR - B

SECURITY RISER DIAGRAM - SITE SECURITY RISER DIAGRAM - FIRST FLOOR

**CLOSET DETAILS** 

SE-300 CLOSET ELEVATIONS - IDF-1 CLOSET ELEVATIONS - IDF-2 = ACCESS CONTROL & IDF-3 - CCTV

CLOSET ELEVATIONS - IDF-4 SE-303 CCTV ONE LINE DIAGRAM

**TYPICALS** 

**ISTAR-OVERALL SCHEMATIC SECURITY** DEVICE & POWER CONNECTION

ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ MOTION REX

SE-702B ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ BUILT-IN REX

SE-703 SECURITY EQUIPMENT DETAIL 1- (DOOR TYPICALS) SECURITY EQUIPMENT DETAIL 1A- (DOOR TYPICALS)

SECURITY EQUIPMENT DETAIL 2- (ACCESS DEVICE TYPICALS)

SECURITY EQUIPMENT DETAIL 3- (ILDA DEVICE TYPICALS)

SE-705A SECURITY EQUIPMENT DETAIL 4- (BURG DEVICE TYPICALS) SE-706 SECURITY EQUIPMENT DETAIL 5- (CCTV TYPICALS)

## **GENERAL NOTES**

GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.

WORK TO COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, NEC, OSHA, ETC. THE INSTALLING SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING WITH

BUILDING MANAGEMENT THE USE OF ELEVATOR OR OTHER HOISTING FACILITIES FOR HANDLING THE DELIVERY OF MATERIALS.

4. FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE INSTALLING SECURITY CONTRACTOR AS REQUIRED BY CODE.

THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND FINAL SYSTEM CONDUIT AND CONDUCTOR LAYOUTS SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED EQUIPMENT, CONDUIT, AND WIRING SHOP DRAWINGS, AND FIELD CONDITIONS. THE INSTALLING CONTRACTOR MUST COORDINATE WITH THE DEVICE INSTALLATION DETAILS, AND ENSURE THAT DEVICE BACKBOXES ARE APPROPRIATE PER THE FINAL SHOP DRAWING APPROVED DEVICE, ON A LOCATION-BY-LOCATION BASIS, AND MEET ARCHITECTURAL

ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND SO AS NOT TO EXCEED 40%

7. PROVIDE APPROPRIATE METALLIC RACEWAY FOR THE SECURITY SYSTEM AS NEEDED IN

. THE INSTALLING CONTRACTOR SHALL PROVIDE ALL 120/220VAC AS REQUIRED FOR THE SECURITY SYSTEM UNLESS OTHERWISE NOTED. FINAL 120 VAC TERMINATIONS IN THE SECURITY EQUIPMENT SHALL BE PERFORMED BY THE INSTALLING SECURITY CONTRACTOR.

P. THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL INTERCONNECTING CONDUITS AND RACEWAYS INSIDE THE SECURITY EQUIPMENT AND TERMINATE ALL WIRES AS

0. THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLE PASS-THROUGH HOLES IN MILLWORK UNLESS OTHERWISE NOTED. . THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL OVERHEAD CABLE

SUPPORTED BY J-HOOKS, CABLE TRAY OR EQUIVALENT. CABLE SHALL NOT BE SUPPORTED BY CEILING GRID, DUCTWORK, SPRINKLER PIPES, ELECTRICAL CONDUIT OR GAS PIPES. THE INSTALLING CONTRACTOR TO PROVIDE GROUNDING OF ALL ELECTRONICS EQUIPMENT

ON THE PLYWOOD BACKBOARD. USE GROUND BAR OR COORDINATE WITH GENERAL CONTRACTOR FOR NEAREST GROUNDING LOCATION. 3. THE INSTALLING CONTRACTOR SHALL PREP ALL DOORS FOR DOOR HARDWARE. THIS

FOR DOOR CONTACTS AND MAGNETIC LOCK ASSEMBLIES.

CORRECT INSTALLATION & PROPER FUNCTIONING.

INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND 15. ALL CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED, AND PROVIDED WITH PULL

4. THESE DRAWINGS INDICATE THE GENERAL INTENT OF WORK AND ARE NOT INTENDED TO

WIRES AND BRUSHINGS. WHERE CONDUITS OR WIREWAYS PASS THROUGH FIRE RATED ASSEMBLIES. THE PENETRATIONS SHALL BE FIRE- STOPPED. 6. PRIOR TO SYSTEM TURN-ON, THE INSTALLING SECURITY CONTRACTOR SHALL REVIEW THE INSTALLATION OF ALL ELECTRIFIED DOOR HARDWARE WITH OWNER'S REP TO VERIFY

7. AT THE TIME OF ACCESS CONTROL SYSTEM TURN ON, THE INSTALLING CONTRACTOR SHALL PROVIDE THE SAME PERSONNEL WHO PERFORMED & SUPERVISED THE WORK TO TROUBLESHOOT, TEST THE INSTALLATION AND REMEDY ALL RELATED PUNCH LIST ITEMS FOR

8. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDY OF ANY CABLE &/OR EQUIPMENT INSTALLATION PROBLEMS AND ALL RELATED PUNCH LIST ITEMS. 9. CLIENTS FIRE ALARM CONTRACTOR SHALL PROVIDE A SET OF NORMALLY CLOSED (N/C)

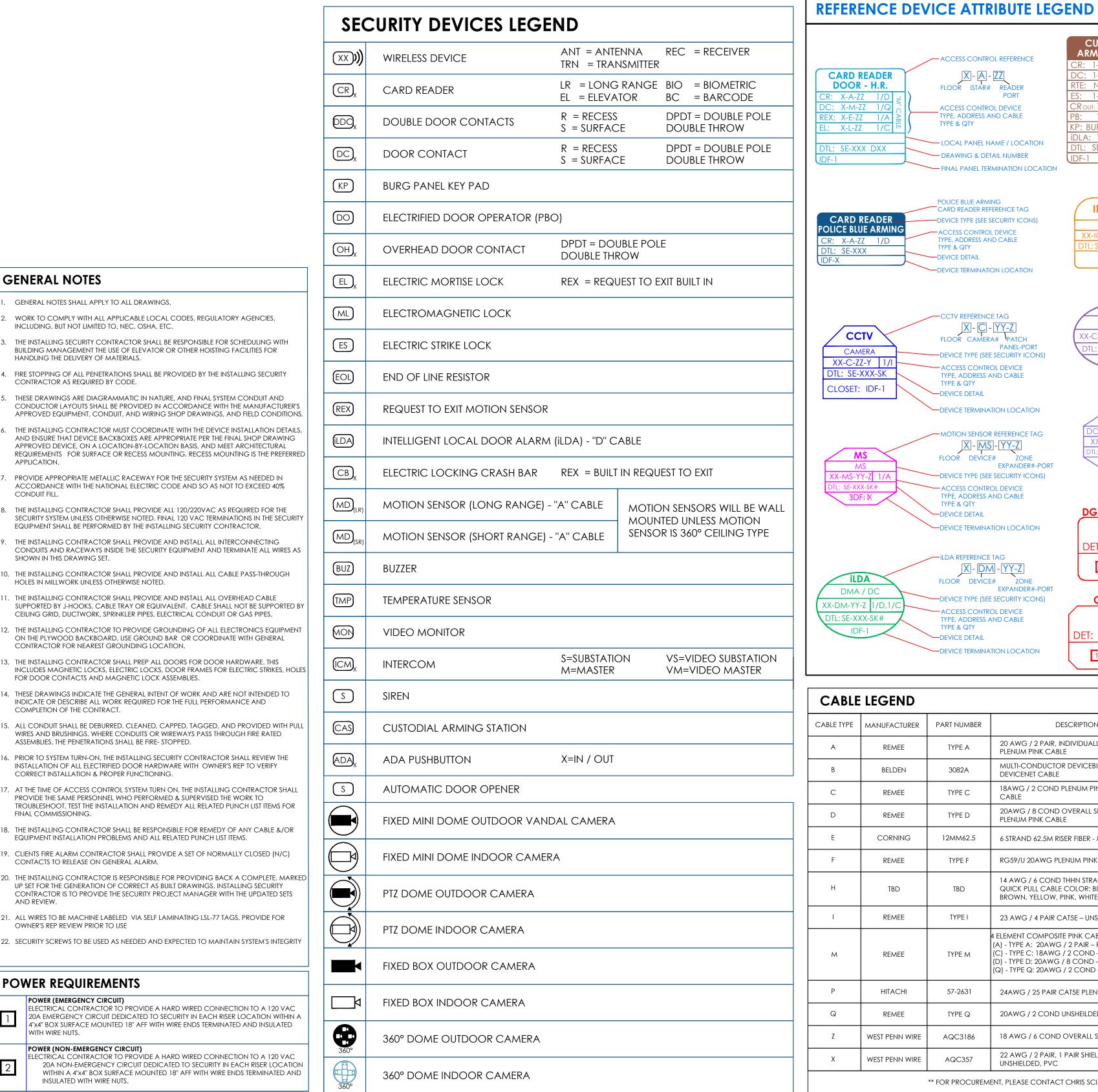
CONTACTS TO RELEASE ON GENERAL ALARM. 20. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PROVIDING BACK A COMPLETE, MARKED UP SET FOR THE GENERATION OF CORRECT AS BUILT DRAWINGS. INSTALLING SECURITY

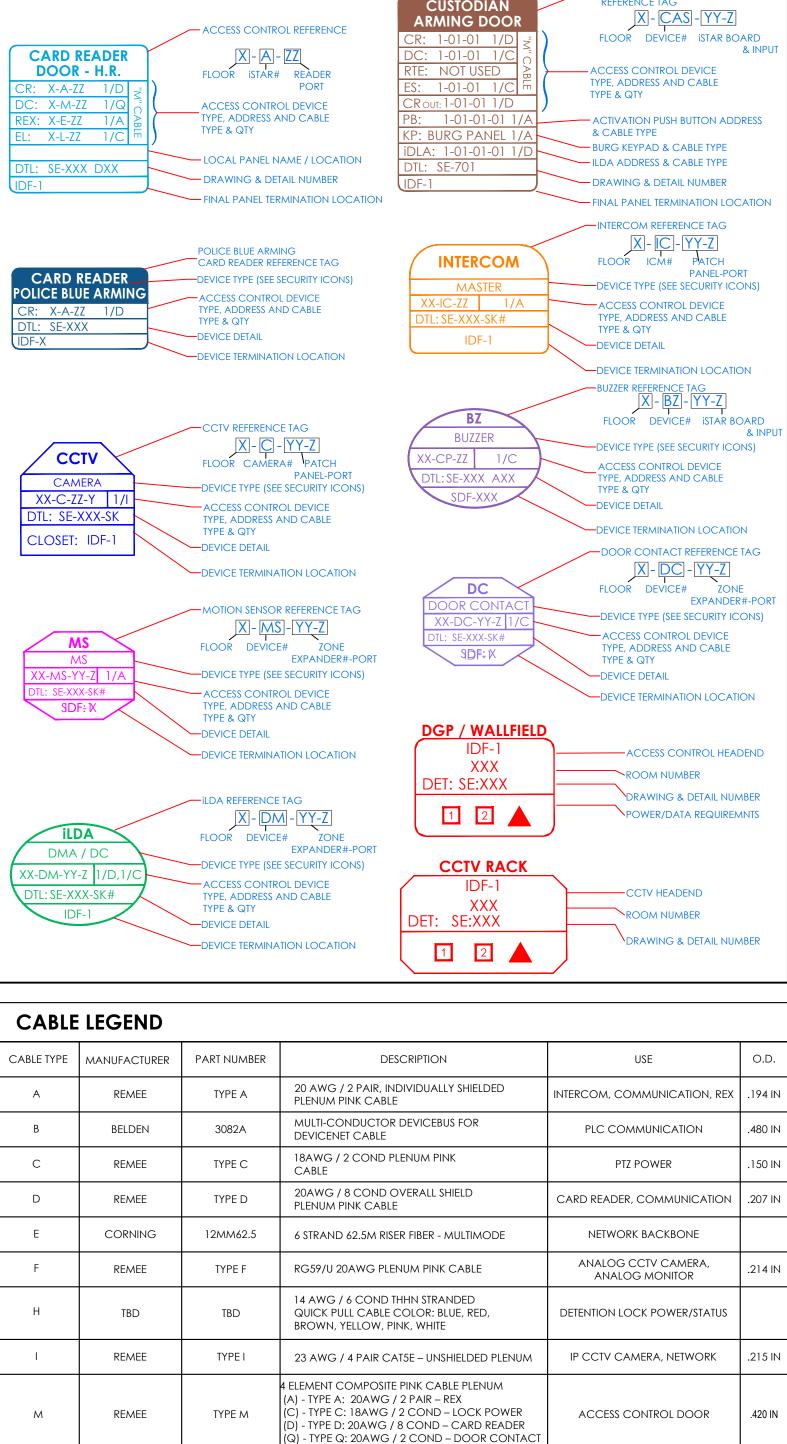
CONTRACTOR IS TO PROVIDE THE SECURITY PROJECT MANAGER WITH THE UPDATED SETS 21. ALL WIRES TO BE MACHINE LABELED VIA SELF LAMINATING LSL-77 TAGS. PROVIDE FOR OWNER'S REP REVIEW PRIOR TO USE

## **POWER REQUIREMENTS**

ELECTRICAL CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED

POWER (NON-EMERGENCY CIRCUIT) ELECTRICAL CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.





HITACHI

REMEE

VEST PENN WIRE

WEST PENN WIRE

57-2631

AQC357

24AWG / 25 PAIR CAT5E PLENUM

20AWG / 2 COND UNSHEILDED PLENUM

18 AWG / 6 COND OVERALL SHIELDED, PVC

22 AWG / 2 PAIR, 1 PAIR SHIELDED, 1 PAIR

\*\* FOR PROCUREMENT, PLEASE CONTACT CHRIS SCIANO AT MONTANA DATACOM

- 1. DEVICE PLACEMENT, RISER DEPICTION CABLE TYPES AND ROUTES. DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY
- SOLUTION TO COY BOE. 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY
- CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET

4. PRIOR TO PULLING CAT-6 WIRES,

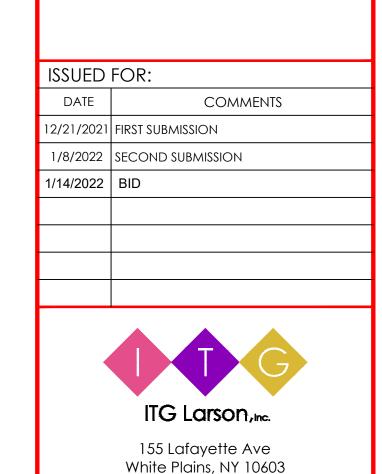
- 5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
- AND NOTE ON THE "AS BUILT" **7.** CONTRACTOR TO PRODUCE AND

DEVIATIONS FROM THE PROVIDED RISER

DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.

**6.** CONTRACTOR TO MARK ANY

**8.** CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING



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WESTCHESTER HILLS

SCHOOL 29

47 CROYDON RD

YONKERS, NY 10710

COVER SHEET /

ORK ORDER NO:

XXXXXX

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PLC COMMUNICATION

DOOR CONTACT

PEDESTAL CARD READER

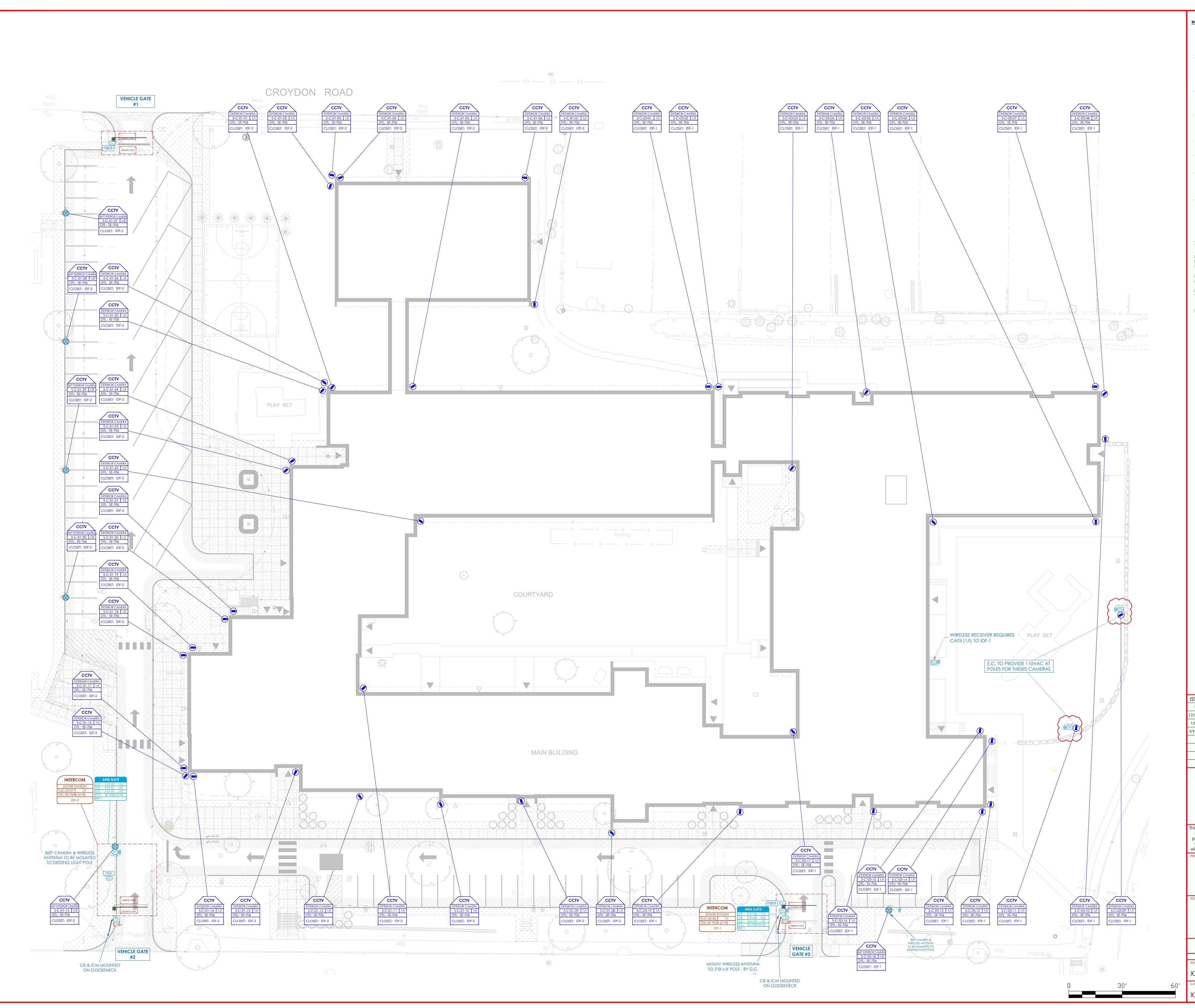
PEDESTAL INTERCOM

LEGEND & INDEX

12/18/2021

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NOTES:

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LENGTH DOES NOT TO EXCEED 300'

WHEN BROUGHT TO CLOSEST CLOSET.

DEVIATIONS FROM THE PROVIDED RISER

- CERTIFIED AS PER BID DOCUMENT

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- AND NOTE ON THE "AS BUILT"

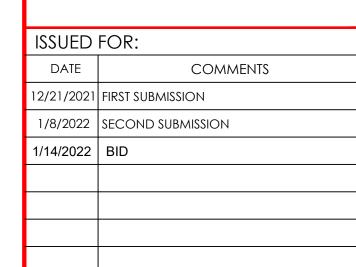
  7. CONTRACTOR TO PRODUCE AND
- 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
- 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING

## GATE NOTES:

E.C. TO FURNISH AND INSTALL 14' POLE AND PROVIDE 110V TO OWNER PROVIDED NEMA ENCLOSURE.

E.C. TO FURNISH, INSTALL, TERMINATE, TEST 6 STRAND MULTI MODE FIBER. OWNER TO PROVIDE OUTDOOR NEMA ENCLOSURE, E.C. TO INSTALL 110V INSIDE ENCLOSURE

GATE: E.C. TO PROVIDE 110V, CEMENT PAD





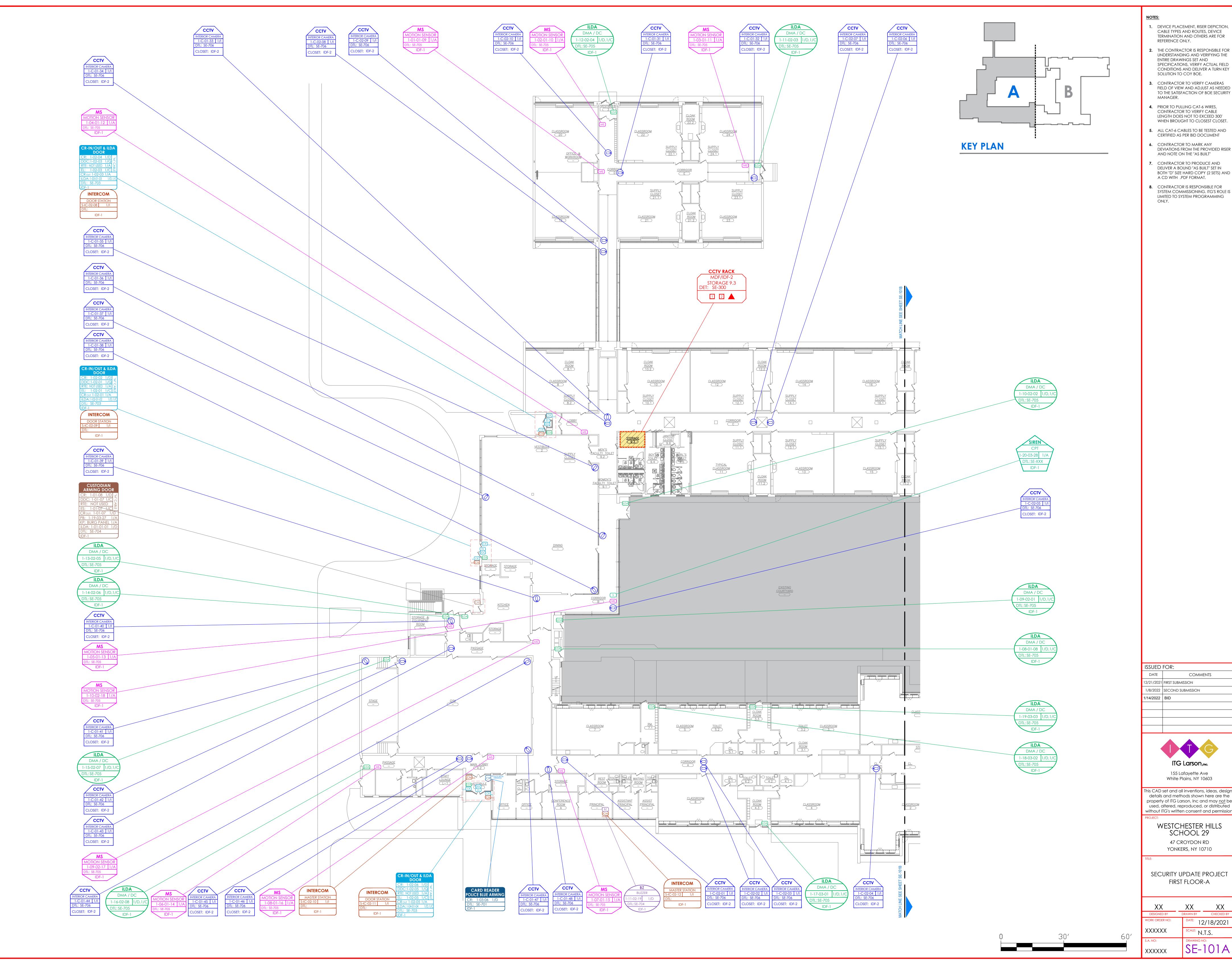
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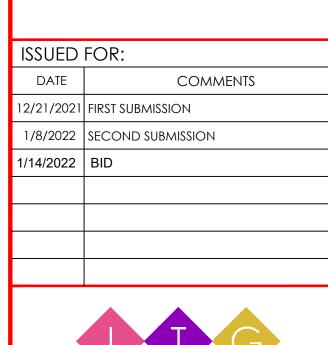
YONKERS, NY 10710

SECURITY UPDATE PROJECT SITE PLAN

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	WORK ORDER NO:	DATE: 12	2/18/2021
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- DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR
- REFERENCE ONLY. 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND
- SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COY BOE. 3. CONTRACTOR TO VERIFY CAMERAS
- TO THE SATISFACTION OF BOE SECURITY MANAGER. 4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE
- WHEN BROUGHT TO CLOSEST CLOSET. 5. ALL CAT-6 CABLES TO BE TESTED AND
- CERTIFIED AS PER BID DOCUMENT 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER
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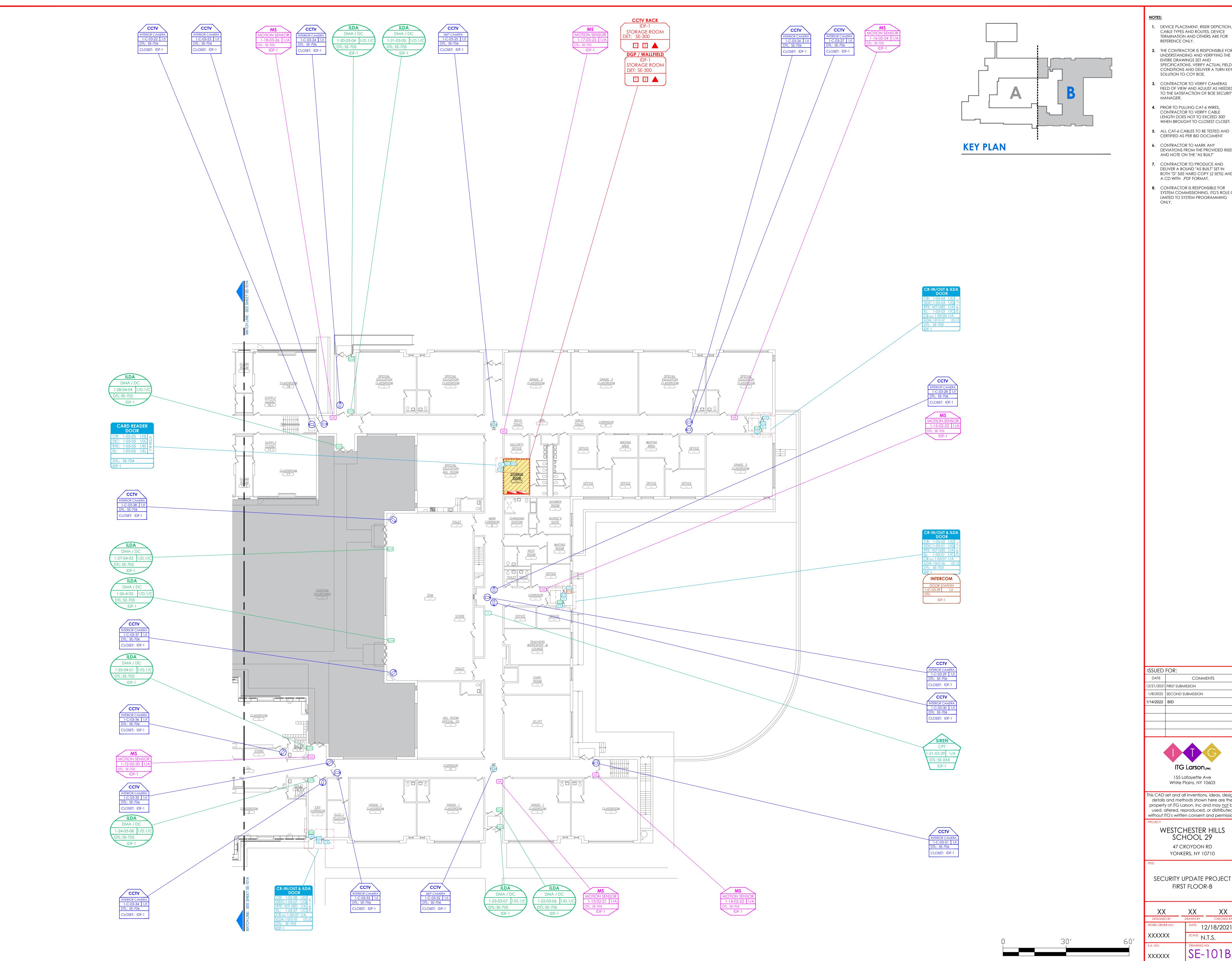
155 Lafayette Ave

WESTCHESTER HILLS SCHOOL 29 47 CROYDON RD

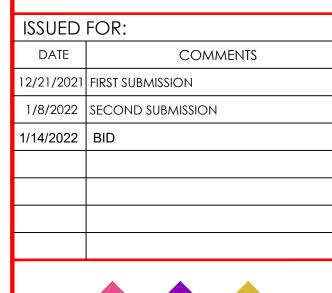
YONKERS, NY 10710

SECURITY UPDATE PROJECT FIRST FLOOR-A

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- 1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR
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- CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COY BOE. 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED
- TO THE SATISFACTION OF BOE SECURITY MANAGER. 4. PRIOR TO PULLING CAT-6 WIRES,
- **5.** ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
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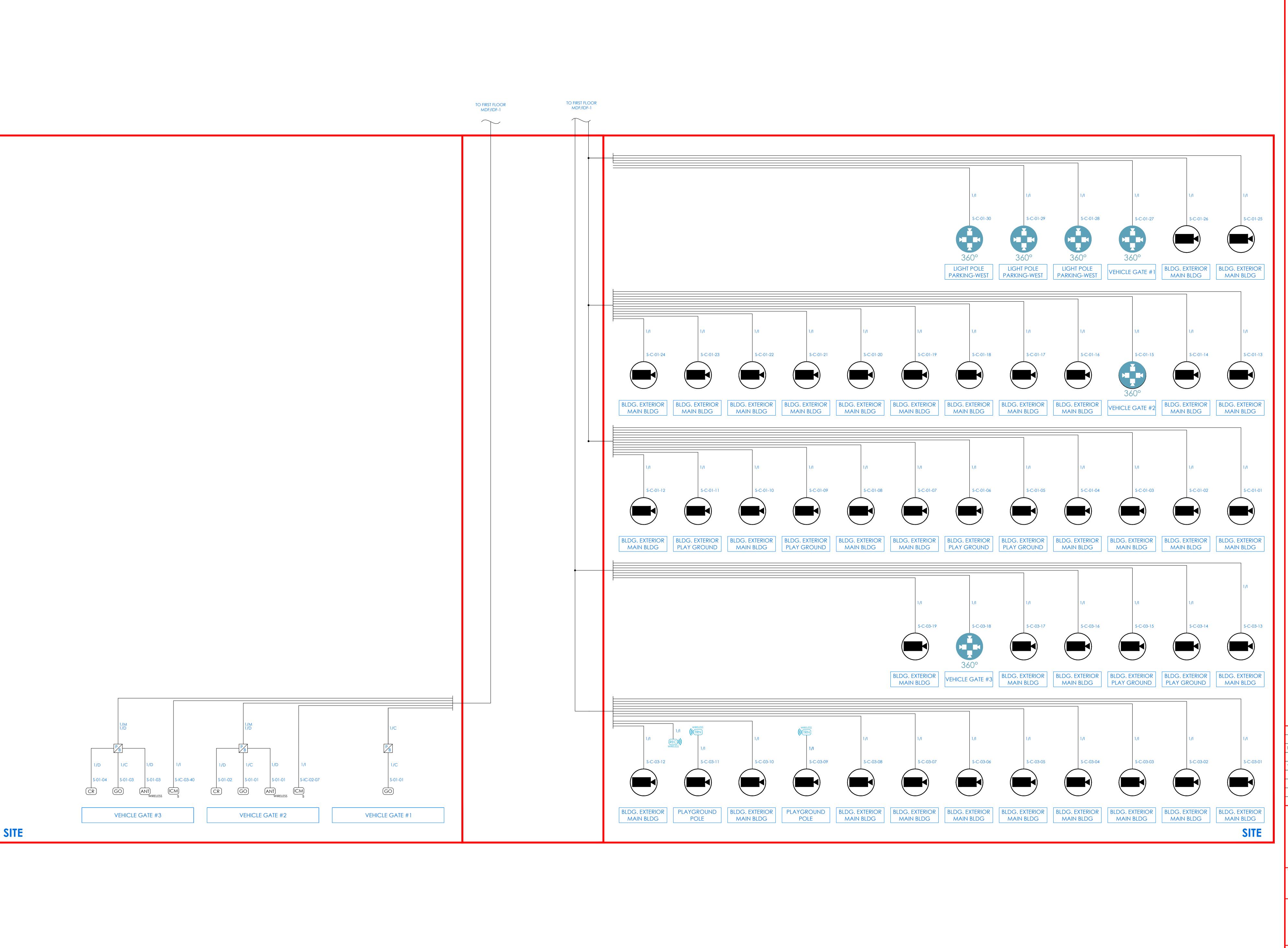
155 Lafayette Ave White Plains, NY 10603

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SECURITY UPDATE PROJECT FIRST FLOOR-B

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NOTE

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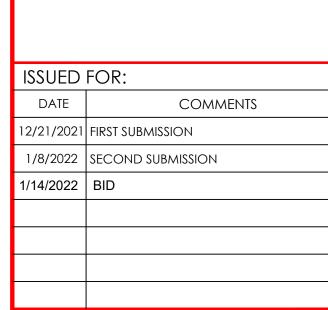
  3. CONTRACTOR TO VERIFY CAMERAS
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  TO THE SATISFACTION OF BOE SECURITY
- MANAGER.

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WHEN BROUGHT TO CLOSEST CLOSET.

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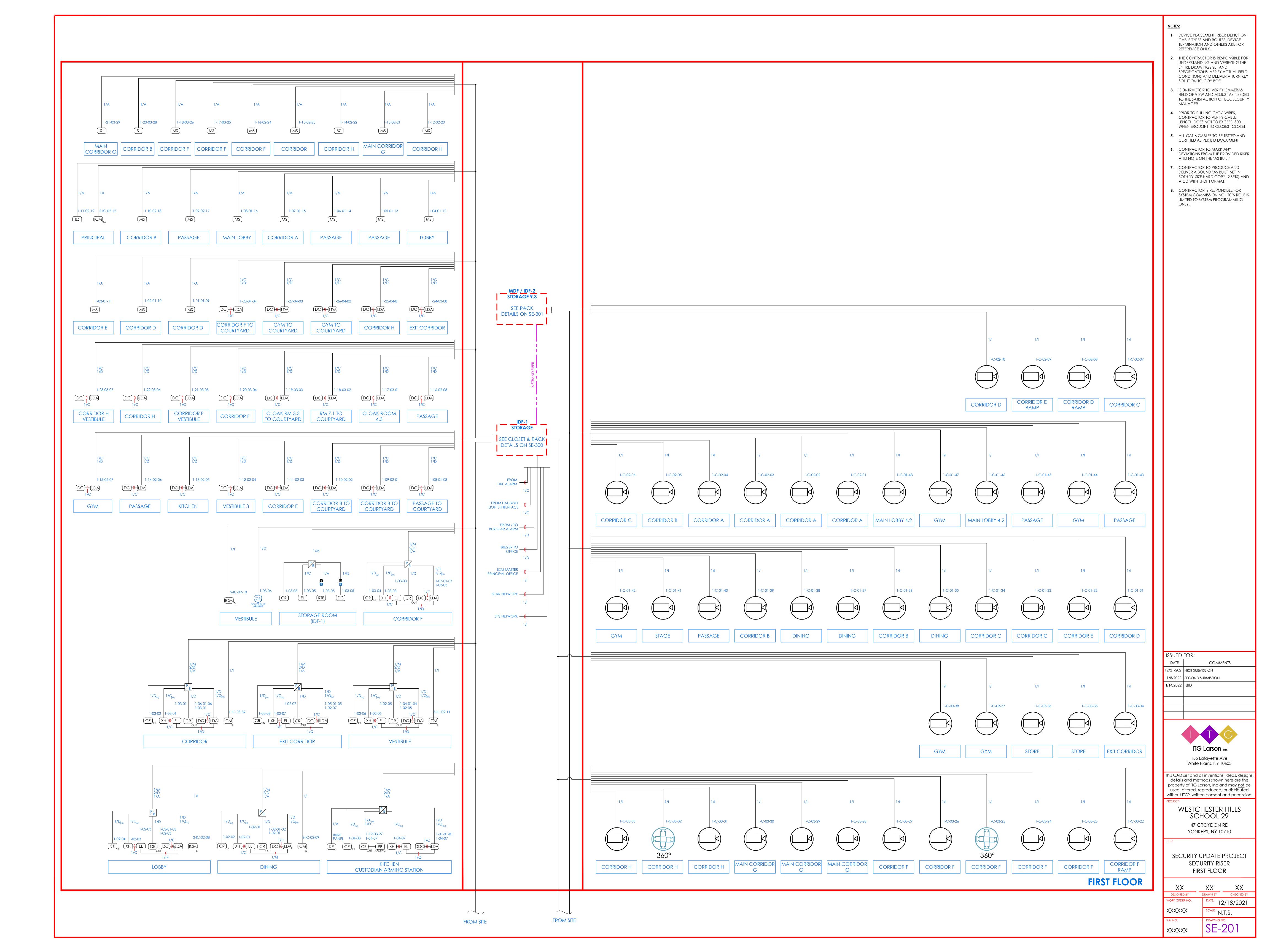


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SECURITY UPDATE PROJECT
SECURITY RISER
SITE

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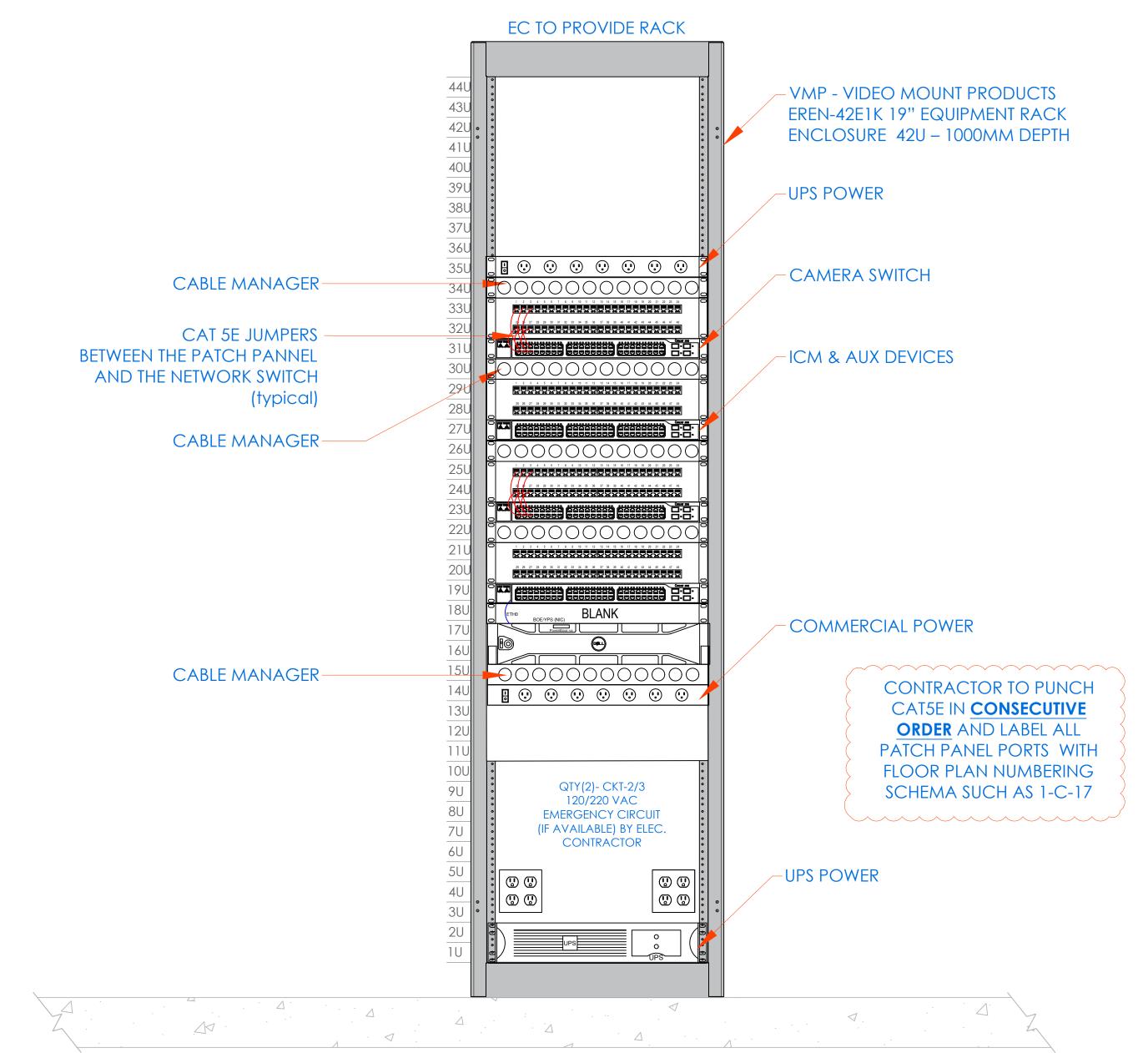
## istar ultra-se & sps-9900/uib 16 doors CONCRETE DECK DROP CEILING 6'(W)x8'(H)x3/4"(TH) FIRE RATED PLYWOOD PAINTED TO MATCH ROOM. FAR (PBO) N/C CONTACT FROM 3 6"x6"x84" WIRE TROUGH FIRE VENDOR MONTANA DATACOM DMA INTERFACE **ENCLOSURE** N/O CONTACT FROM CELLULAR LIGHTS INTERFACE 2 CKT-1 BY ELEC. CONTRACTOR RADIO • NTERFACE 16"X12"X4" MONTANA DATACOM DMA INTERFACE MFG-NU2 5 P/N- SPS-9900/ UIB BURG **ENCLOSURE** 22"X16"X5" (TYPICAL OF 2) 22"X16"X5" 22"X16"X5" DSC - 128 ZONE PANEL 12"X12"X4" P/N- HS2128E BRING 1 CAT-5E DROP RJ-45 JACK FROM SECURITY PATCH PANEL TO BURG PANEL. **BURG KEYPAD COORDINATE LOCATION &** P/N- HS2LCD FROM LOCK POWER SPS TO ALL BURGLAR 22"X16"X5" **OTHER SPS's** ZONES MONTANA DATACOM 24"x16"x4" 24"x16"x4" NTERFACE - DMA INTERFACE **ENCLOSURE ZONES 9-40** 22"X16"X5" UTILITY iLDA 17-24 16"X12"X4" 22"X16"X5" QTY(1)- CKT-1 120 VAC EMERGENCY CIRCUIT BY 2 QTY(1)- CKT-1 2 120 VAC EMERGENCY CIRCUIT BY ELEC. CONTRACTOR ELEC. CONTRACTOR

# INSTALLATION PROCEDURE iSTAR ULTRA SE WITH SPS-9900/ UIB ACCESS CONTROL HEADEND

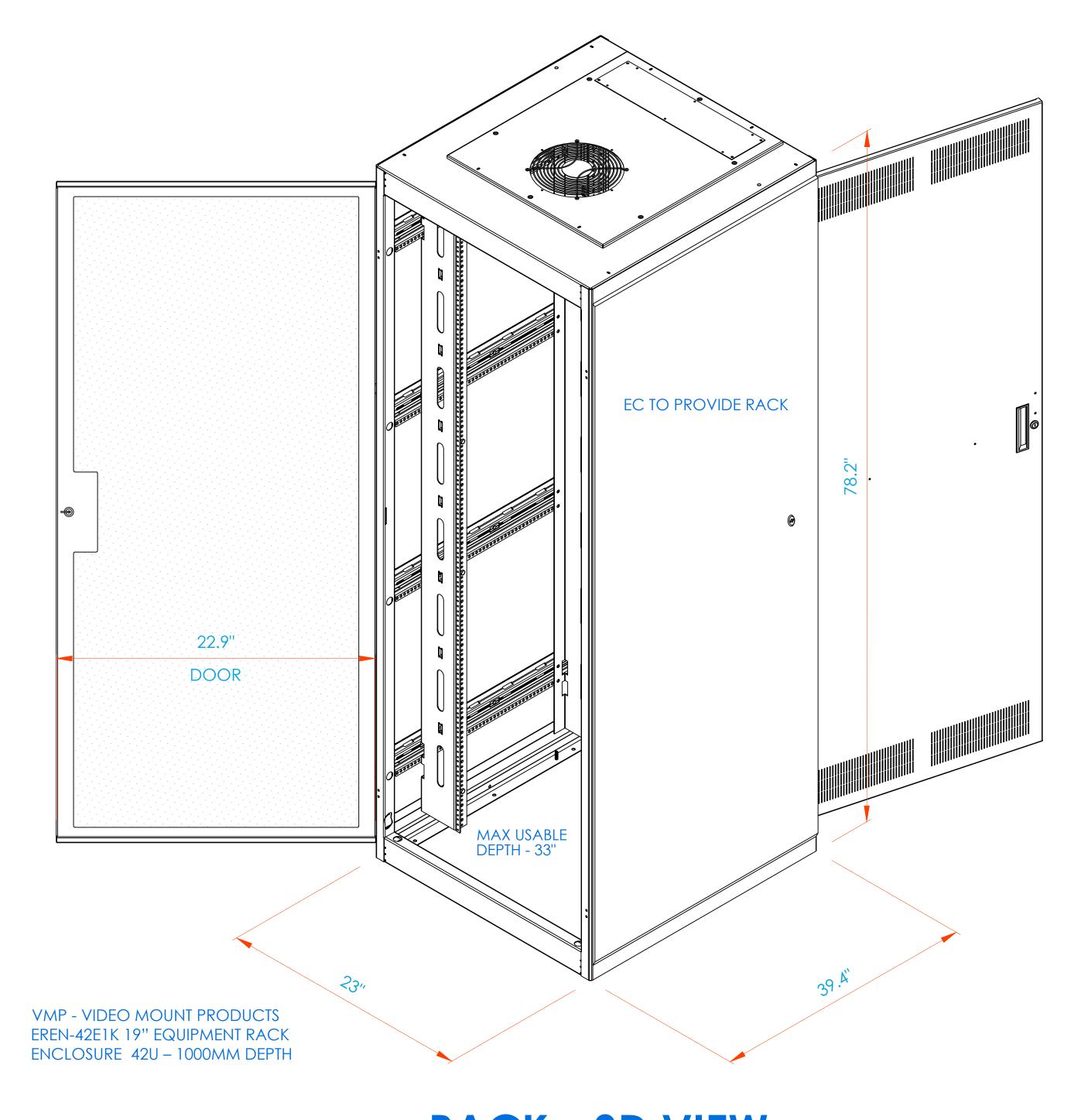
- LAYOUT EQUIPMENT TO BE MOUNTED AT DESIGNATED PLYWOOD (FIRE RATED AND PAINTED TO MATCH ROOM) BOARD IN SDF ROOM IN ACCORDANCE WITH THE PROVIDED ELEVATIONS HERE.

  STEPS KEYED ON THE DRAWINGS ARE NOTED BELOW.
- 2 COMPLETE INSTALLATION OF 120VAC/20A DEDICATED CIRCUIT AS SHOWN.
- FURNISH AND INSTALL A 6"x6"x48" CABLE TROUGH WITH SCREW FASTENED REMOVABLE COVER (NEMA TYPE 1), MOUNTED HORIZONTALLY, ON THE PLYWOOD 4" FROM THE TOP EDGE OF PLYWOOD.
- FURNISH AND INSTALL A 4"x4"x60" CABLE TROUGH WITH SCREW FASTENED REMOVABLE COVER (NEMA TYPE 1), MOUNTED VERTICALLY, CENTERED ON THE PLYWOOD ADJOINING TO HORIZONTAL TROUGH. PROVIDE PUNCH OUTS TO MATCH THE EQUIPMENT AS SHOWN.
- MOUNT THE UTILITY ENCLOSURE 4" FROM BOTTOM EDGE OF VERTICAL TROUGH.
- FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM THE LOCK POWER SUPPLY (SPS-9900/UIB) TO THE CENTER TROUGH AS SHOWN. DO NOT ENTER BOTTOM OF P/S (INTERFERES WITH BATTERY).
- 7 FURNISH AND INSTALL 1-1/2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM THE ISTAR ULTRA SE TO THE CENTER TROUGH AS SHOWN.
- MOUNT [iSTAR ULTRA SE] ENCLOSURE 1" BELOW THE LOCK POWER SUPPLY. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM [ISTAR ULTRA SE] ENCLOSURE TO THE CENTER TROUGH AS SHOWN.
- BRING CAT-5 CABLE AND/OR MOUNT AN RJ-45 JACK FOR PANEL DATA COMM, FROM NEAREST NETWORK SWITCH TO HERE. COORDINATE TERMINATION WITH TELECOM VENDOR OR CUSTOMER'S DATA CONSULTANT. ADD 1/A CABLE FROM LOCK POWER SUPPLY (SPS) TO ALL OTHER SPS'S.
- COORDINATE WITH MEP/ BLDG MANAGEMENT TO PROVIDE ONE SET OF NORMALLY CLOSED (N/C) DRY CONTACT FROM THE SITE'S FIRE ALARM SYSTEM, TO OPEN ON GENERAL ALARM ACTIVATION. (PROVIDED BY FIRE VENDOR). ELECTRIC LOCKS MUST BE FAIL SAFE FOR THIS FUNCTIONALITY. PERFORM SAME FOR HALLWAY LIGHTS INTERFACE
- PROVIDE 18/2 PAIR OF WIRES FROM BUILDING'S LIGHTING SYSTEM. ARRANGE SUCH THAT DESIGNATED BUILDING'S LIGHTS ARE TURNED ON WHEN THE SECURITY SYSTEM CLOSES THE CIRCUIT
- 12 ALL CONDUITS AND CONNECTIONS SHALL BE INSTALLED TO REQUIRED ENCLOSURES AS NEEDED PER DIAGRAM PROVIDED.
- 13 ALL CONNECTIONS BETWEEN PANELS & TROUGHS SHOULD BE CHASE NIPPLES & RIGID COUPLINGS.
- 14 INSTALL TAMPER SWITCHES AND WIRE PANELS IN SERIES TO DESIGNATED INPUT SHOWN ON POINT-TO-POINT CHARTS.

## **CCTV NETWORK RACK**



FRONT ELEVATION



RACK - 3D VIEW

- 1. DEVICE PLACEMENT, RISER DEPICTION

  CARLE TYPES AND ROLLTES DEVICE

  OF THE PROPERTY OF THE
- CABLE TYPES AND ROUTES, DEVICE
  TERMINATION AND OTHERS ARE FOR
  REFERENCE ONLY.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COY BOE
- SOLUTION TO COY BOE.

  3. CONTRACTOR TO VERIFY CAMERAS
  FIELD OF VIEW AND ADJUST AS NEEDED
- 4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET

TO THE SATISFACTION OF BOE SECURITY

- 5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
- 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
- 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND

A CD WITH .PDF FORMAT.

ISSUED FOR:

without ITG's written consent and permissio

WESTCHESTER HILLS SCHOOL 29

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YONKERS, NY 10710

**CLOSET ELEVATIONS** 

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12/18/2021

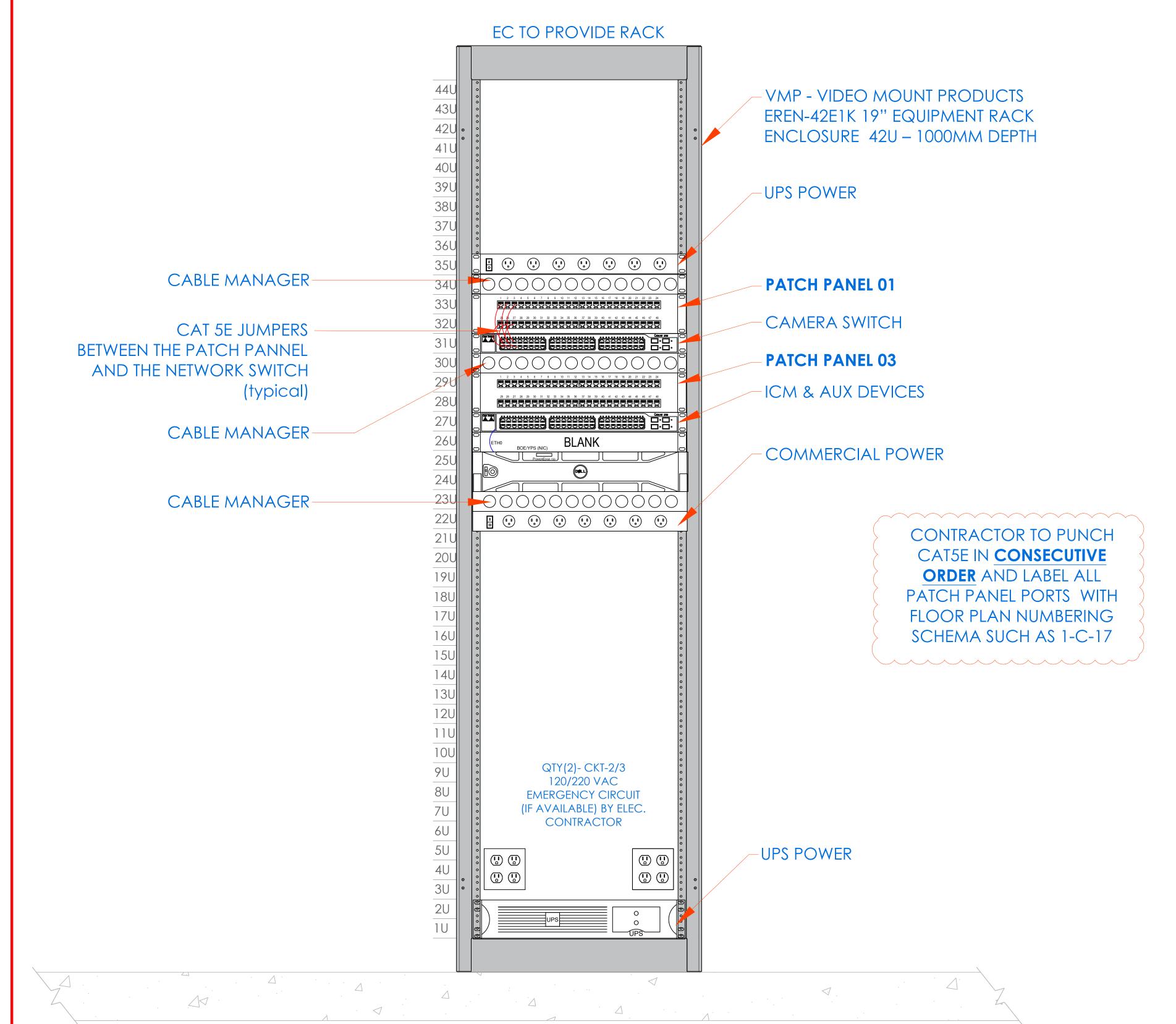
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SE-300

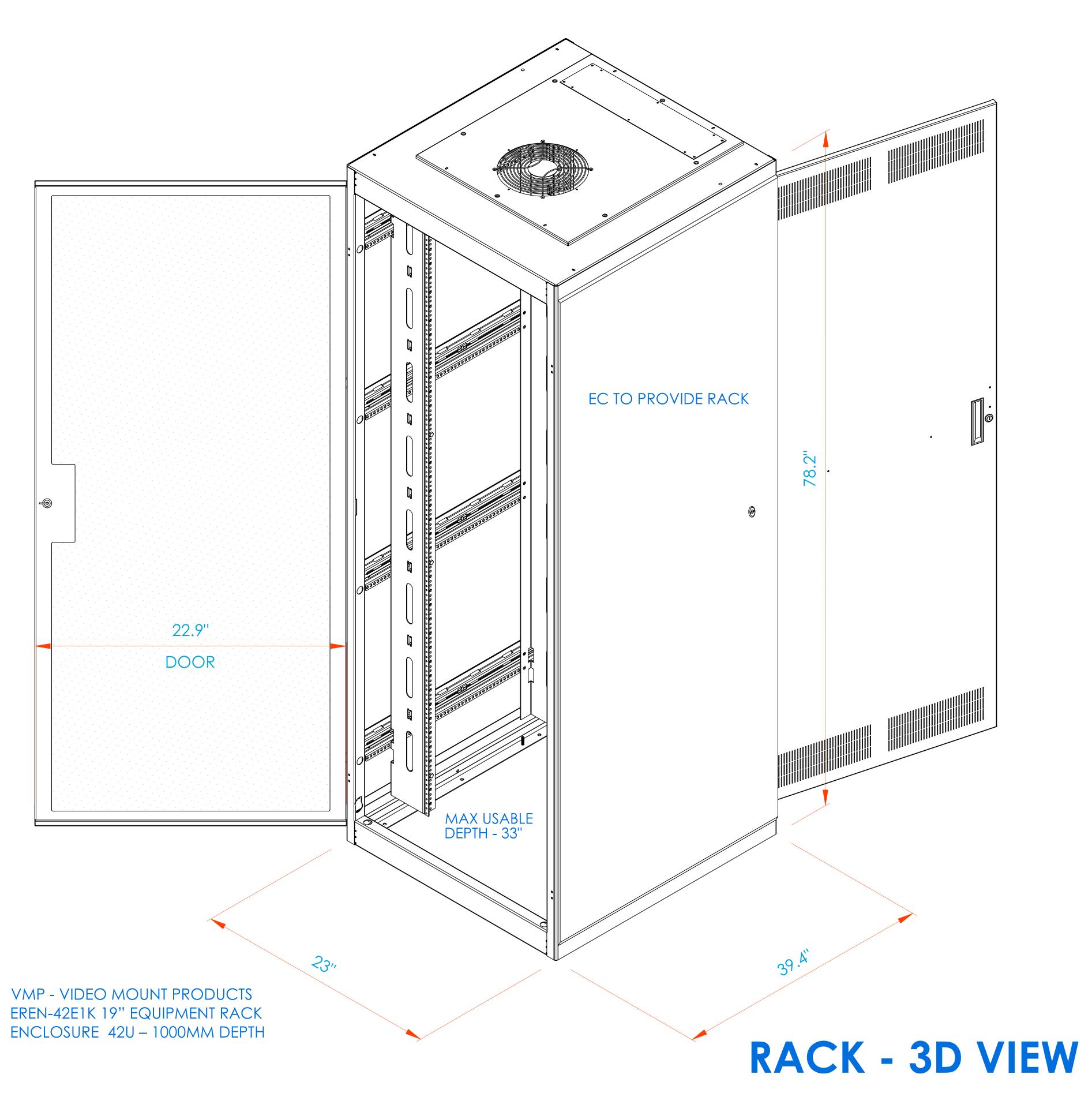
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING

# IDF-2

## CCTV NETWORK RACK



FRONT ELEVATION



NOTES:

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  3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY
- MANAGER.

  4. PRIOR TO PULLING CAT-6 WIRES,
  CONTRACTOR TO VERIFY CABLE
  LENGTH DOES NOT TO EXCEED 300'

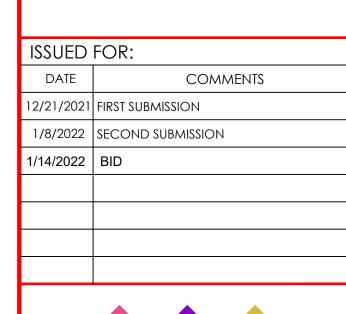
WHEN BROUGHT TO CLOSEST CLOSET.

- 5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
- 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER
- 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND

AND NOTE ON THE "AS BUILT"

A CD WITH .PDF FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS

LIMITED TO SYSTEM PROGRAMMING ONLY.





155 Lafayette Ave
White Plains, NY 10603

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WESTCHESTER HILLS
SCHOOL 29

47 CROYDON RD
YONKERS, NY 10710

CLOSET ELEVATIONS MDF / IDF-2

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DESIGNED BY DRAWN BY CHECKED BY

WORK ORDER NO:

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SCALE: N.T.S.

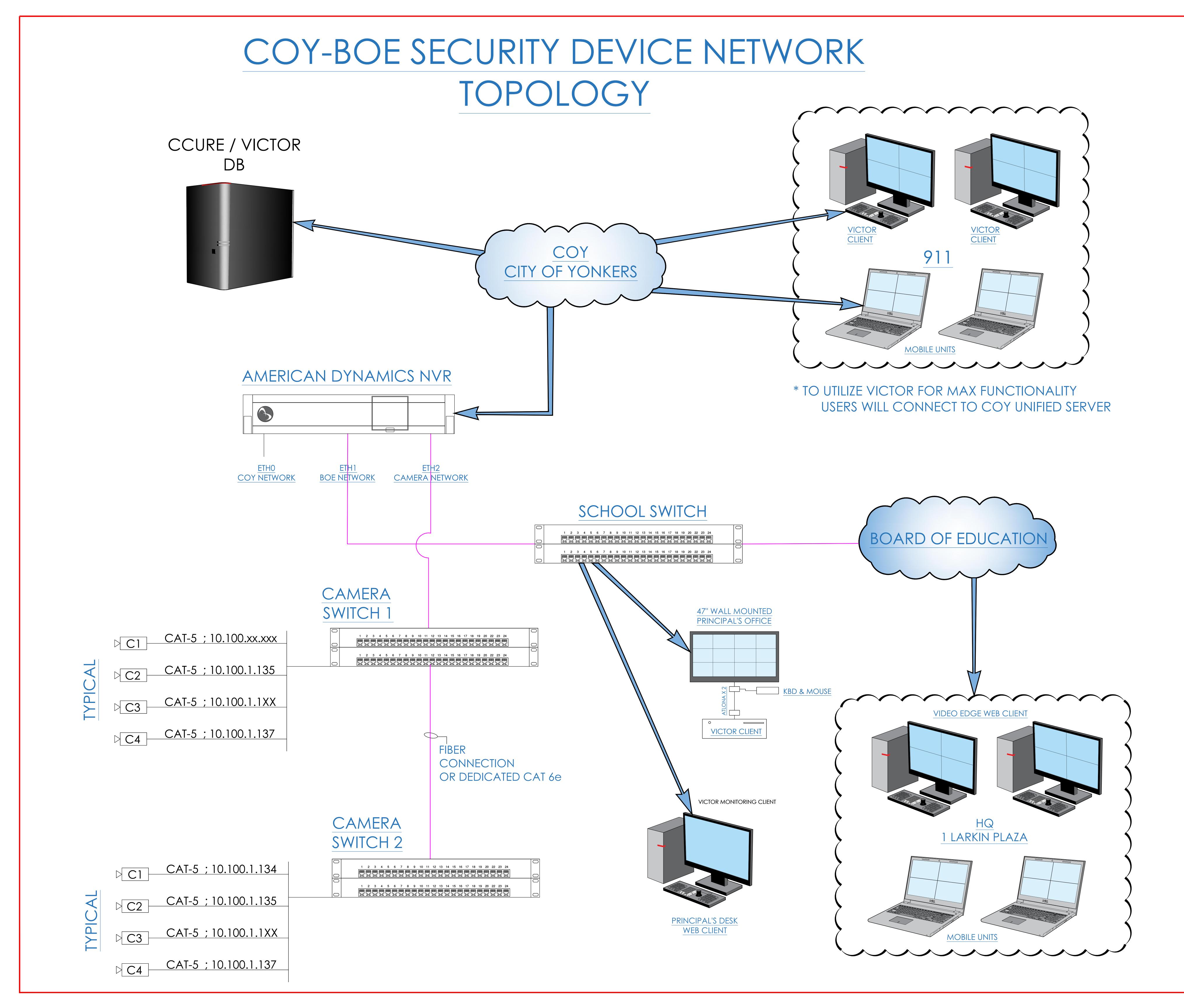
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SE-301



NOTE

- 1. DEVICE PLACEMENT, RISER DEPICTION,
  CABLE TYPES AND ROUTES, DEVICE
  TERMINATION AND OTHERS ARE FOR
  REFERENCE ONLY.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COY BOE.
- 3. CONTRACTOR TO VERIFY CAMERAS
  FIELD OF VIEW AND ADJUST AS NEEDED
  TO THE SATISFACTION OF BOE SECURITY
- 4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSE
- 5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
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6. CONTRACTOR TO MARK ANY

 CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.



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WESTCHESTER HILLS SCHOOL 29 47 CROYDON RD YONKERS, NY 10710

CCTV ONE LINE DIAGRAM

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DESIGNED BY	DRAWN BY	CHECKED BY			
WORK ORDER NO:	DATE: 1	2/18/2021			
XXXXXX	SCALE: N.T.S.				
S.A. NO:	DRAWING 1	NO:			
XXXXXX	SE-	303			

### CABLE TYPES AND ROUTES, DEVICE REFERENCE ONLY. ENTIRE DRAWINGS SET AND SOLUTION TO COY BOE. P-FORCE 1 - WIRING OF SPS/UIB CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY 4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300 SPS OUT POWER CONNECTIONS FIRE ALARM OUTPUT CONTROL FIRE ALARM WHEN BROUGHT TO CLOSEST CLOSE CERTIFIED AS PER BID DOCUMENT FOLLOW LOCAL AND NATIONAL ELECTRICAL WIRING CODES DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT" DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT. **8.** CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS 12V TO GCM/ACM 18/2 IN-FROM LIMITED TO SYSTEM PROGRAMMING "12V & 24V" ARE FACTORY DEFAULTS. USER CAN MODIFY TO ANY VOLTAGE BETWEEN 9.5V - 26.5V DIP SWITCH SETTINGS FOR DOOR ADDRESSING IN PWR & BAT CONNECTION AC FAIL/LO BAT & RS485 COMM ADDRESS ADDRESS 2/18 CABLE FROM NU2 36-350 PS BAT UIB DOORS 9-16 UIB DOORS 1-8 2/18 CABLE RS485 TO UIB#1 2/18 CABLES TO ACM UIB INPUT 12/24VPOWER FROM SPS RTE POWER SETTINGS FOR DOORS 1 THRU 8 18/2 CABLES FROM SPS 2/18 CABLE TO BATTERIES 24VDC 12VDC 12VDC 12V & 24V ARE NEEDED FOR MIXED LOCKS USE. OTHERWISE UIB WILL FUNCTION ON EITHER 12V OR 24V (JUMPERS SHOWN IN 12v) FIRE ALARM INTERFACE RS485 COMM RTE POWER FOR **TWISTED TWISTED** TYP. UIB INPUT CONNECTIONS 18/2 CABLE O NEXT UIB FIRE CONTACT INPUT IF APPLICABLE **OR** TO NEXT PAIR 18/2 CABLE FROM FIRE ALARM OR PREVIOUS PAIR **READER-1** RS485 FROM ON UIB 2 AVAILABLE INPUT ON ACCESS FOR CABLES FROM ACM-1 (IF APPLICABLE) MONITORING REX PWR RELAY OUTPUTS CABLE USE EOL DEVICE (END OF LINE RESISTOR) IF APPLICABLE FOR ISSUED FOR: WHITE (+) LINE SUPERVISION. LOCATE EOL AT DEVICE END. 7AH/12AH 7AH/12AH 1/8/2022 SECOND SUBMISSION COORDINATE AND PROVIDE NORMALLY CLOSED (N/C) DRY CONTACT FROM THE SITE'S FIRE ALARM SYSTEM, TO OPEN ON GENERAL ALARM OBSERVE POLARITY + TO + **ELECTRIFIED LOCK SELECTOR** CLASS 2 FAIL SAFE/FAIL SECURE TYP. LOCK PWR - DOOR#1 **POWER LIMITED** ITG Larson, Inc. LOCK VOLTAGE SELECTOR JUMPER SETTINGS 155 Lafayette Ave White Plains, NY 10603 **TYPICAL** FAIL SAFE DRY CONTACT CONNECTIONS UP- FAIL SAFE without ITG's written consent and permissio CABLES OUT TO WESTCHESTER HILLS DRY CONTACT SCHOOL 29 CABLE **DEVICES** 47 CROYDON RD TO LOCK DN- FAIL SECURE YONKERS, NY 10710 (JUMPERS SHOWN IN 12V POSITION) CARD RDR / DOOR # CLASS 2 JUMPER DEFAULT— **ISTAR DRAWING** WIRING DIAGRAM POWER LIMITED 12/18/2021

- 1. DEVICE PLACEMENT, RISER DEPICTION TERMINATION AND OTHERS ARE FOR
- THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY

XXXXXX

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N.T.S.

### 1. DEVICE PLACEMENT, RISER DEPICTION CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COY BOE. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY BURGLAR & ACCESS - OVERALL SYSTEMS INTERFACES - ONE LINE 4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300 WHEN BROUGHT TO CLOSEST CLOSE 5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT 6. CONTRACTOR TO MARK ANY (typical) DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT" 7. CONTRACTOR TO PRODUCE AND DOORS, MOTION DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT. **DETECTORS ETC:** 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING 10/100 TO CCURE-9000 AND CENTRAL STATION **CONTRACTOR TO ALSO FURNISH AND INSTALL:** 18/2 BUZZER - ADMINISTRATION OFFICE (ILDA ALARM) POLICE - FRONT DOOR AREA FROM ISTAR OUTPUT -> TO BURG INPUT: BURG ZN1 - ARM/FORCE ARM PANEL (momentary) BURG ZN2 - DISARM PANEL (momentary) BURG ZN3 - GENERAL PERIMETER DMA/LDA ALARMS (latched) 18/2 N/C FIRE ALARM CONTACT(BY EC): "BLUE" ARMING READER 1- TURN "LIGHTS" INTERFACE RELAY ON FRONT DOOR BURG CC-9000 FOR FURTHER DETAILS SEE SE-705 PANEL ISTAR CUSTODIAN ARMING STATION (CAS) FROM BURG OUTPUT TO ISTAR INPUT: 18/2 LOW VOLTAGE WIRE FROM LIGHT CONTACTOR(S) OUTPUT 1 - GENERAL BURGLAR ALARM TO SECURITY PANEL BY EC OUTPUT 2 - N/C CONTACT WHEN "ARMED STATUS" (Light/un-bypass iLDA) LIGHT CONTROL CONTACTOR (by EC) OUTPUT 3 - ZONE TROUBLE (Any zone) LIGHTS TURN ON: 1- WHEN BURGLAR ALARM IS TRIGGERED SINGLE SWIPE - UNLOCKS DOOR AND 2- WHEN FIRE ALARM IS ACTIVATED BY PANEL-MOMENTARY SHUNTS DMA. (APPROX. FOR SERVICE 20SEC); EVENT - DOUBLE SWIPE - UNLOCKS DOOR AND SHUNTS THE DMA "FOREVER" (until another double TO ISTAR - BURG PANEL "ARM" EVENT swipe) SINGLE SWIPE AND PUSHING THE CAS TO DMA/LDA TERMINATION CONTROL PANEL ILDA TERMINATION BOX ARMING BUTTON - WILL (FORCE) ARM THE SYSTEM; (SEE SE-704 FOR DETAILS) NOTE: PERIMETER "DOOR CONTACT" STATUS IS ISSUED FOR: PROVIDED BY THE LDA/DMA VIA THE CC-9000 AND ISTAR EVENTS PROGRAMMING: CUSTODIAN ARMING STATION AND IS SENT TO THE BURGLAR 1/14/2022 BID ENTERING FROM OUTSIDE: Typical... $_{\pi}$ "A" CABLE - (Custodian Arming Station (CAS) to iStar input) PANEL VIA API AND HARD 1.1. UNLOCK CUSTODIAN DOOR USING THE "M" CABLE PORT /RELAY FOR THE "IN READER" (MUST WIRED TO ZONE#3. BE ADA PERSON IN CCURE SOFTWARE) r"D" CABLE (Lock sense shunts LDA on exit/ARM CAS) LDA/DMA ALARMS ARE EVENT - DISARM BURGLAR ALARM VIA API AND DRY CONTACTS (ZN2) ANNOUNCED AT ADMIN EVENT - TURN BUILDING'S HALLWAY LIGHTS "D" CABLE (to iLDA termination box) OFFICE VIA LOCAL BUZZER EVENT - SHUNTS DOOR'S LDA/DMA USING THE LOCK SENSE FEATURE AND EMAIL NOTIFICATIONS ITG Larson, Inc. r"A" CABLE (to Burglar panel) 155 Lafayette Ave LOCK SENSE White Plains, NY 10603 2. EXITING FROM INSIDE - PRESENTING A VALID CARD WILL: 2.1 SHUNTS DOOR'S LDA/DMA USING THE LOCK SENSE FEATURE property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed 2.2 EVENT - ARM THE "CAS BURG ARMING BUTTON INPUT" FOR 10 SECONDS. IF CAS ARMING IS without ITG's written consent and permissio CR ICM-S PUSHED WITHIN THAT 10 SEC OF PRESENTING A CARD, THE BURG PANEL WILL START WESTCHESTER HILLS ARMING USING ZN1 - FORCED ARM SCHOOL 29 M CABLE 2.3 WHEN BURGLAR PANEL ARMS - SHUT OFF BUILDING'S LIGHTS 47 CROYDON RD M-CABLE (ISTAR relay unlocks lock) YONKERS, NY 10710 BURGLAR & ACCESS INTERFACE 12/18/2021 XXXXXX E: N.T.S. SE-701

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### ULTRA SE TYPICAL WIRING DIAGRAM - MOTION REX SPS POWER CONNECTIONS **READER DOOR CONTACTS MOTION DETECTOR** FIRE ALARM OUTPUT CONTROL 115VAC/220VAC FOLLOW LOCAL AND NATIONAL ELECTRICAL WIRING CODES **CONNECTIONS CONNECTIONS** ○ LED \_\_ ADJ. 31VDC \ DOOR 1 FOLLOW F/A <→ IGNORE F/ DOOR 2 FIRE ALARM PWR & BAT CONNECTION DOOR 4 DOOR 4 TYPE "C" CABLE FROM NU2 36-350 PS DOOR 5 GND NEUTRAL ( AC FAIL/LO BAT & RS485 COMM DOOR 6 FIRE INTERFACE RS-485 COMM **UIB INPUT CONNECTIONS DOOR 11 DOOR 11 DOOR 11 DOOR 12** TYPE "C" CABLE TO BATTERIES **UIB LOCK PWR** DOOR 13 | IN 13 | TO LOCK #1 **DOOR 13** CONTACT **UIB POWER FROM SPS** DEVICES **REX POWER** CLASS 2 **POWER LIMITED** DRY CONTACT CONNECTION **DOOR ELEVATION** TO ELEC. LOCK **DIAGRAMMATICALLY SHOWN WITH ELECTRIC MORTISE LOCK AND** FAIL SAFE/FAIL SECURE DIP SWITCH + 20/0-**POWER LIMITED** REQUEST TO EXIT MOTION SENSOR FAIL SAFE TYPICAL REQUEST TO EXIT CONNECTIONS 7AH/12AH 7AH/12AH LOCK POWER SETTING FOR DOORS 1-8 LOCK VOLTAGE JUMPER SETTING **iSTAR** DIP SWITCH SETTING FOR UIB ADDRESSING **MOTION REX** TYCE © 2013 LOCK JUMPER SETTINGS 0 0 4 0 L 1 W 4 V -TYPE "D" CABLE FOR **PROXIMITY READER** -8 CONDUCTOR OVERALL SHEILDED IAIBI SW2 JAIRI SW2 1900 BOX TYPE "C" CABLE FOR LOCK -2 COND / 18AWG UNSHIELDED (12-24 VDC LOCK PWR UIB 9-16 TYPE "A" CABLE FOR **REX** 2 PAIR / 20AWG SHIELDED (12-24 VDC RTE PWR.) TYPE "M" **GCM POWER** TYPE "Q" CABLE FOR **DOOR CONTACT** -2 COND / 20 AWG UNSHIELDED TYPE "M" CABLE CABLE -16 PASS THROUGH NO COND TYPE "C" CABLES POWER FROM SPS SPLICES. FOLLOW CEILING-ELECTRICAL CODES READER CONNECTIONS RTE TYPICAL: CENTER, 6" TYPE "C" CABLE TO ACM 1 ABOVE FRAME, SECURE TYPE "Q" TYPE "D" CABLE FROM READER SIDE. COORDINATE WITH CABLE CABLE ARCHITECTURAL DRAWINGS. **ACM 1 PWR CONNECTION** TYPE "D" TO ELIMINATE DOOR HELD/FORCED AND COMM LOSS ALARMS ACM #1 PWR CONNECTION CABLE TYPE "C" CABLE DOOR CONTACT OR CONTACT MAGNET ELECTRIFIED HINGE SESC (SECURITY ELECTRICAL SUB CONTRACTOR) TO INSTALL & CONNECT WIRE BETWEEN ELECTRIFIED HINGE & ELECTRICAL LOCK ISTAR OUTPUT RELAYS CONNECTION DOOR CONTACT & RTE INPUTS FOR DOOR #1 TYPE "A" CABLE CARD RÉADER **MOUNTED ON** FROM ACM-1 RELAY OUTPUTS TO UIB INPUTS ELECTRIC LOCK FLOOR-DOOR TYPICAL FOR MORE INFORMATION AND CONFIRM HARDWARE TYPE FOR EACH SPECIFIC LOCATION PRIOR TO ANY INSTALLATION. • FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

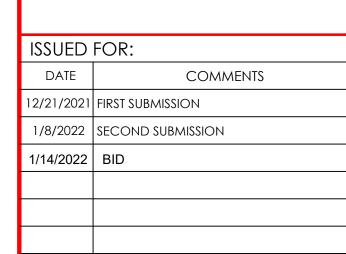
- 1. DEVICE PLACEMENT, RISER DEPICTION CABLE TYPES AND ROUTES. DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY
- SOLUTION TO COY BOE. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY
- 4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE
- LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET
- CERTIFIED AS PER BID DOCUMENT 6. CONTRACTOR TO MARK ANY

AND NOTE ON THE "AS BUILT"

DEVIATIONS FROM THE PROVIDED RISER

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155 Lafayette Ave White Plains, NY 10603

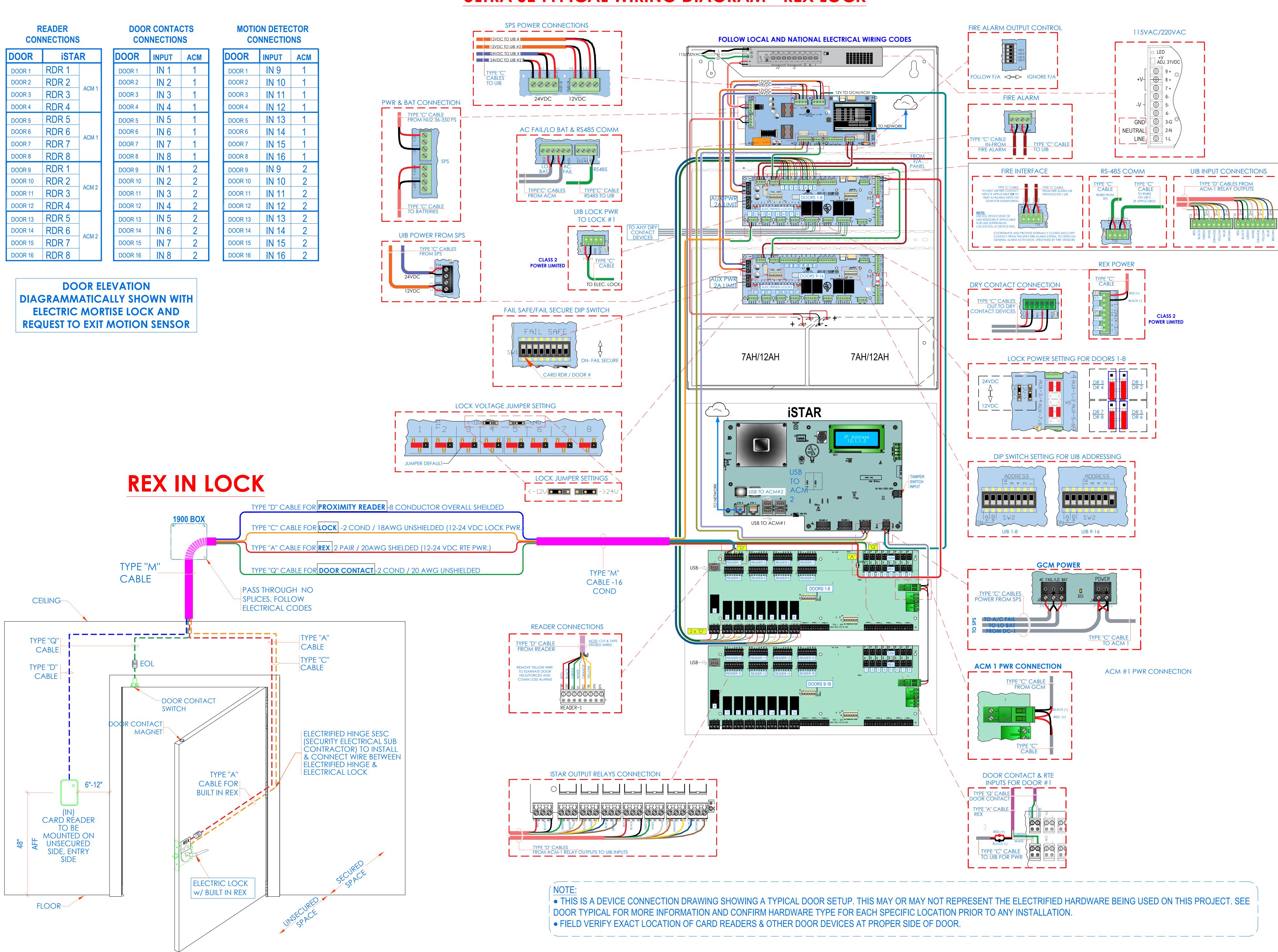
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> WESTCHESTER HILLS SCHOOL 29 47 CROYDON RD YONKERS, NY 10710

ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS w/ MOTION REX

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DESIGNED BY	DRAWN BY	CHECKED BY		
WORK ORDER NO:	DATE: 12	2/18/2021		
XXXXXX	scale: N.T.S.			
S.A. NO:	DRAWING 1	VO:		
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## **ULTRA SE TYPICAL WIRING DIAGRAM - REX LOCK**



NOTES:

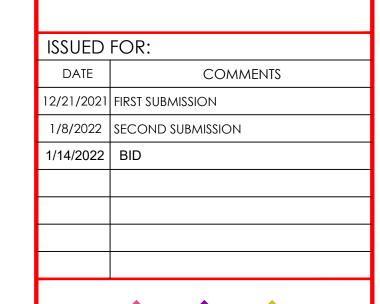
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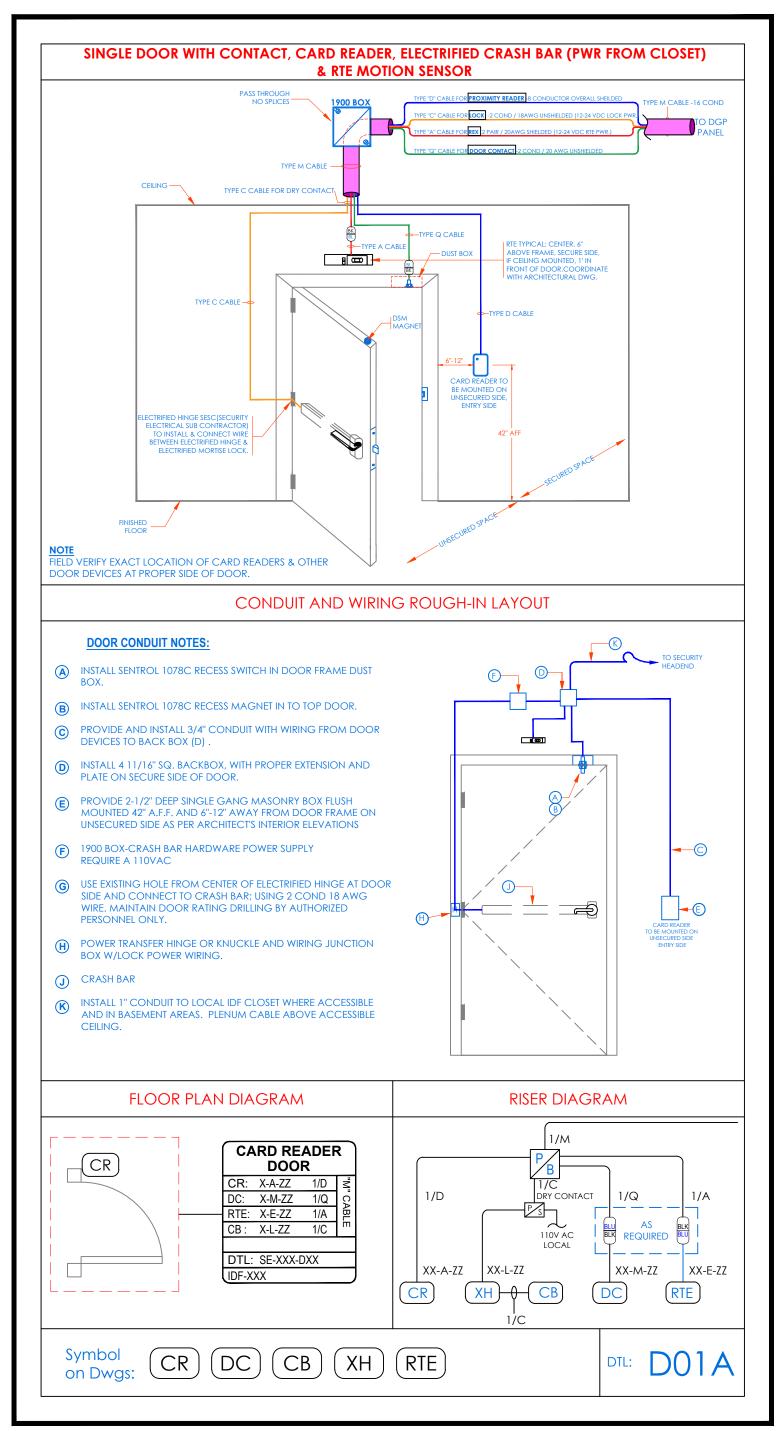
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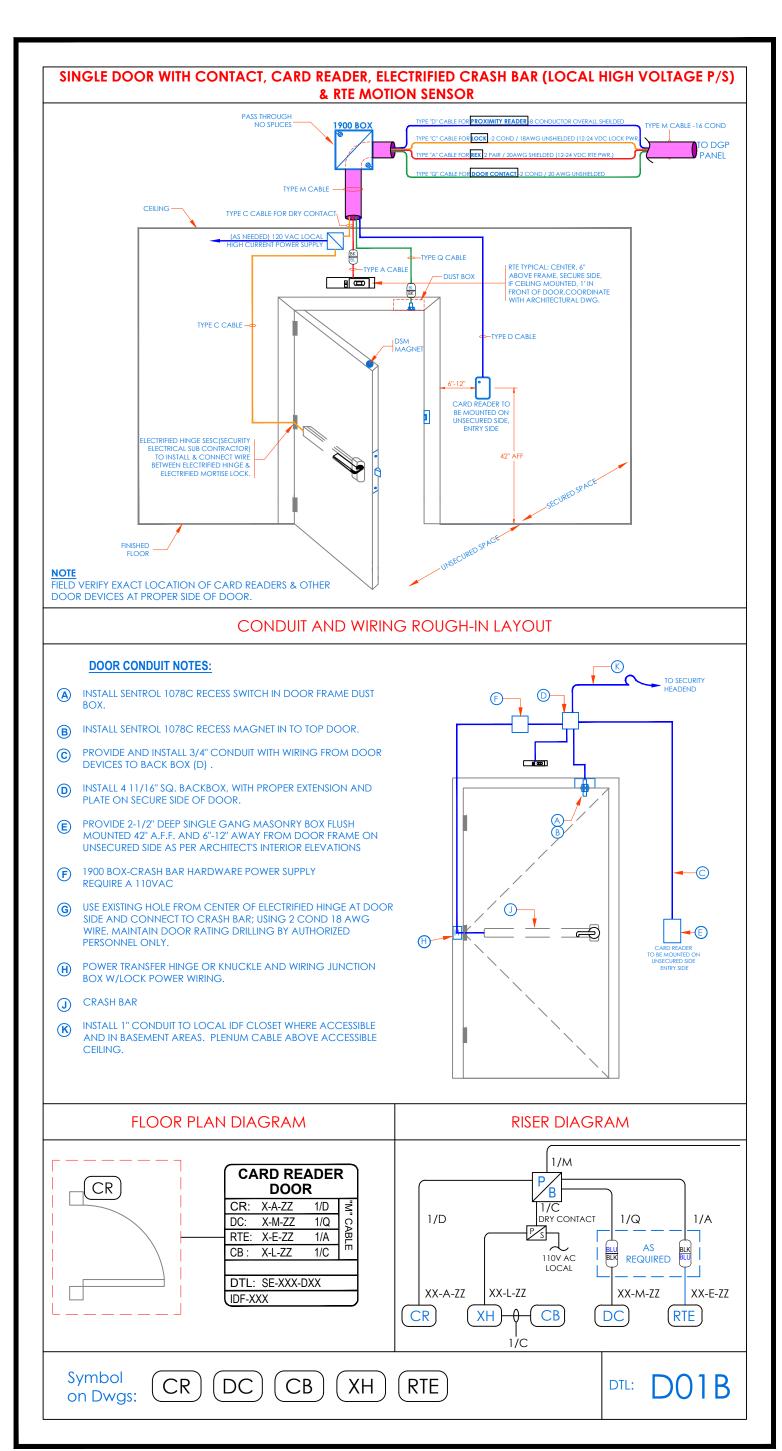
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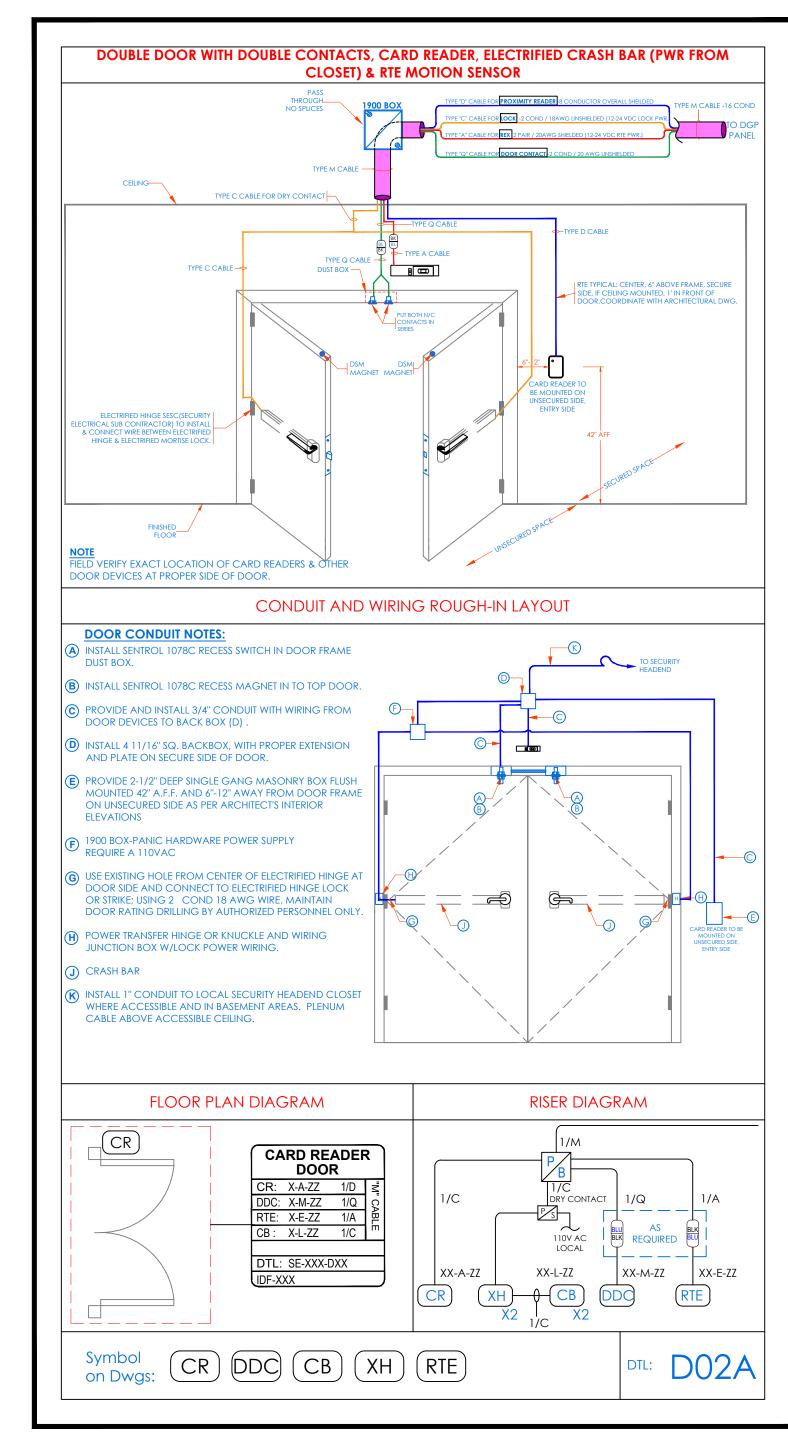
WESTCHESTER HILLS SCHOOL 29 47 CROYDON RD YONKERS, NY 10710

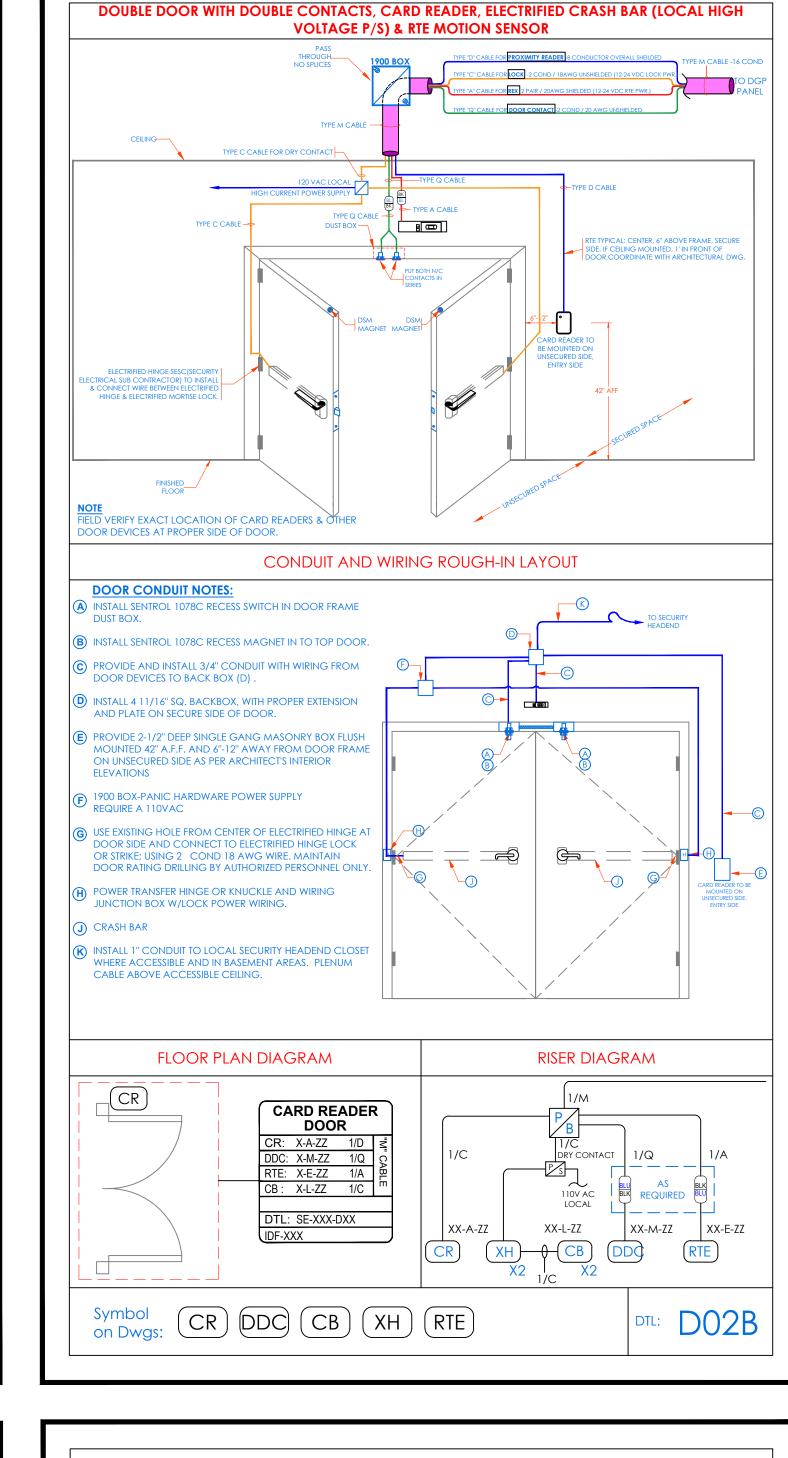
ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS w/ BUILT-IN REX

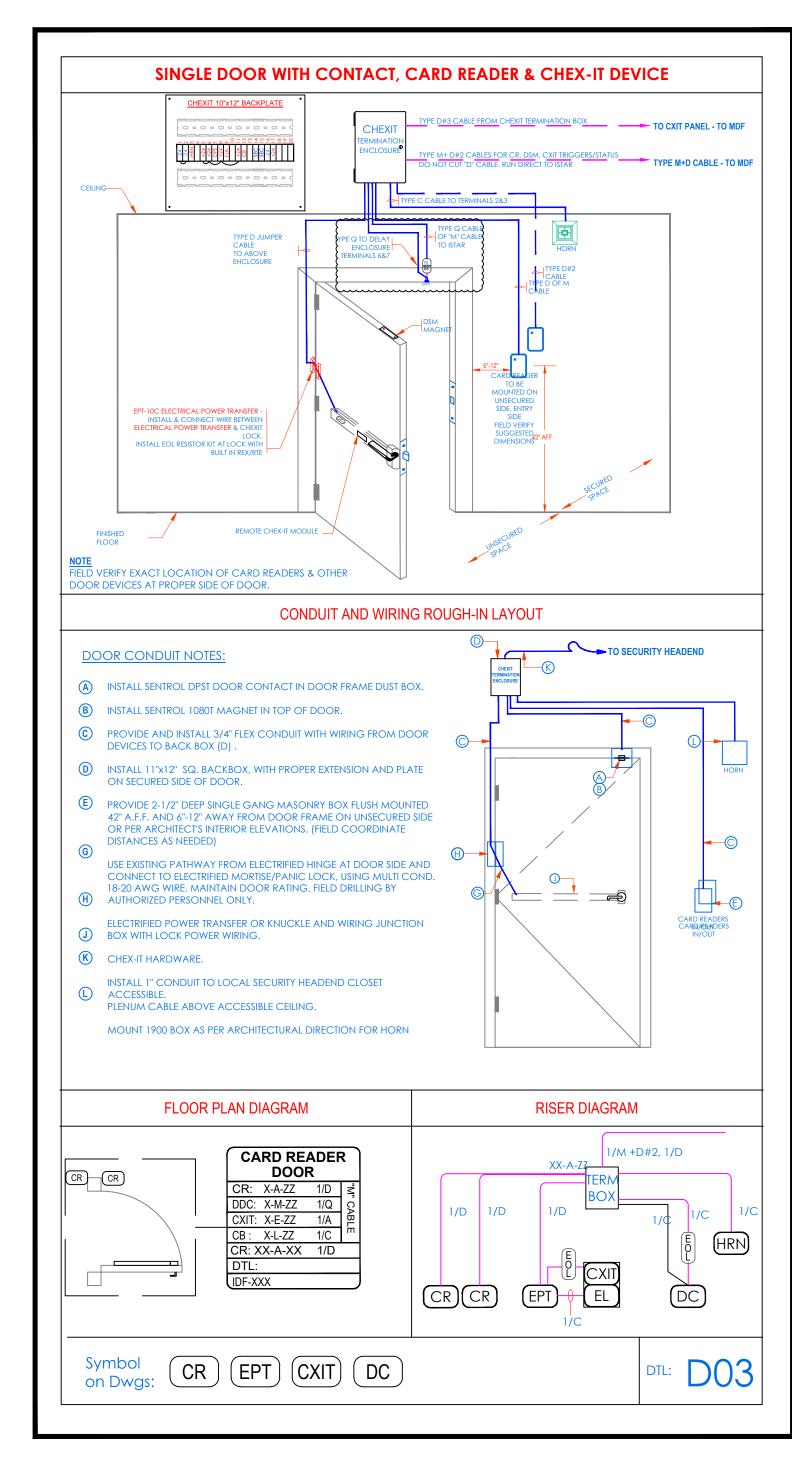
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WORK ORDER NO:	DATE: 12	2/18/2021		
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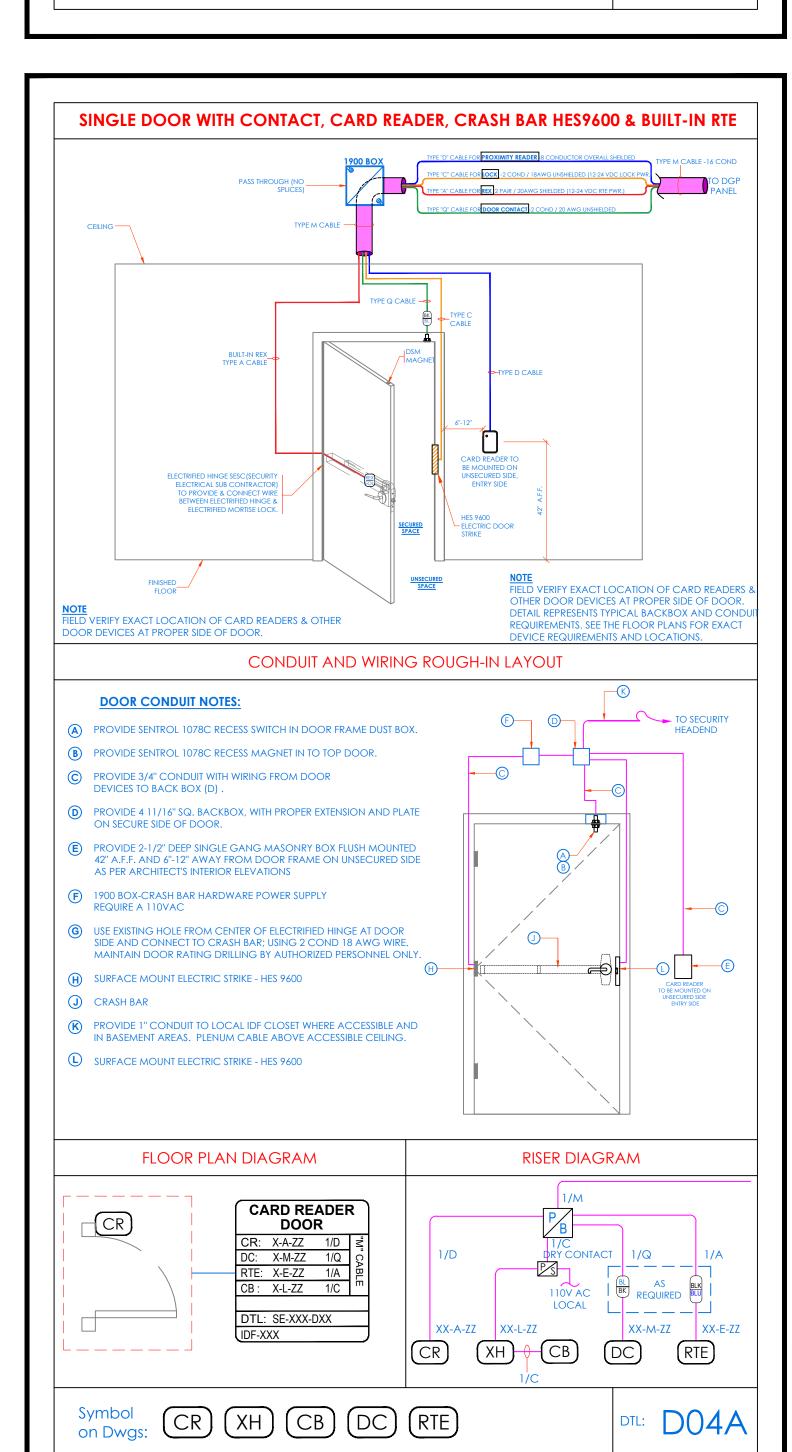


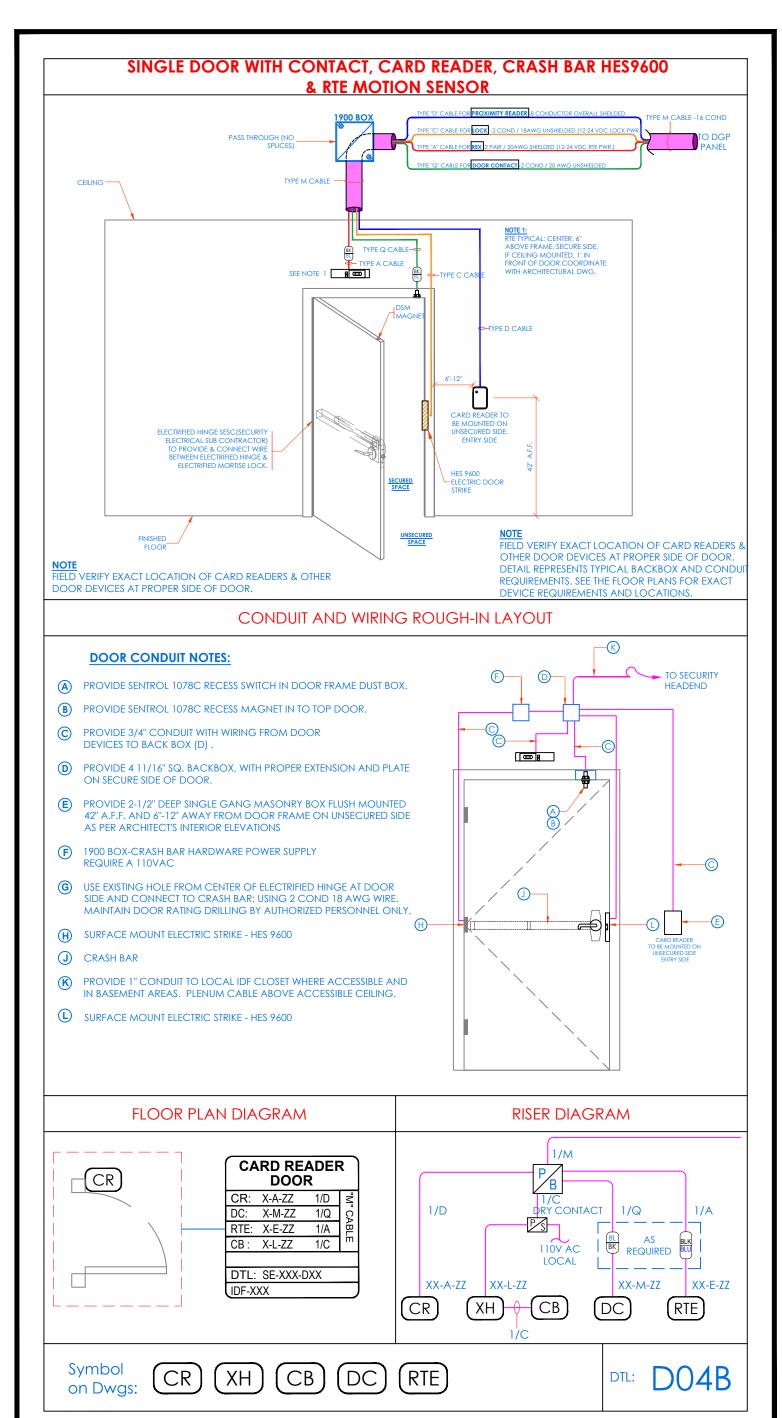


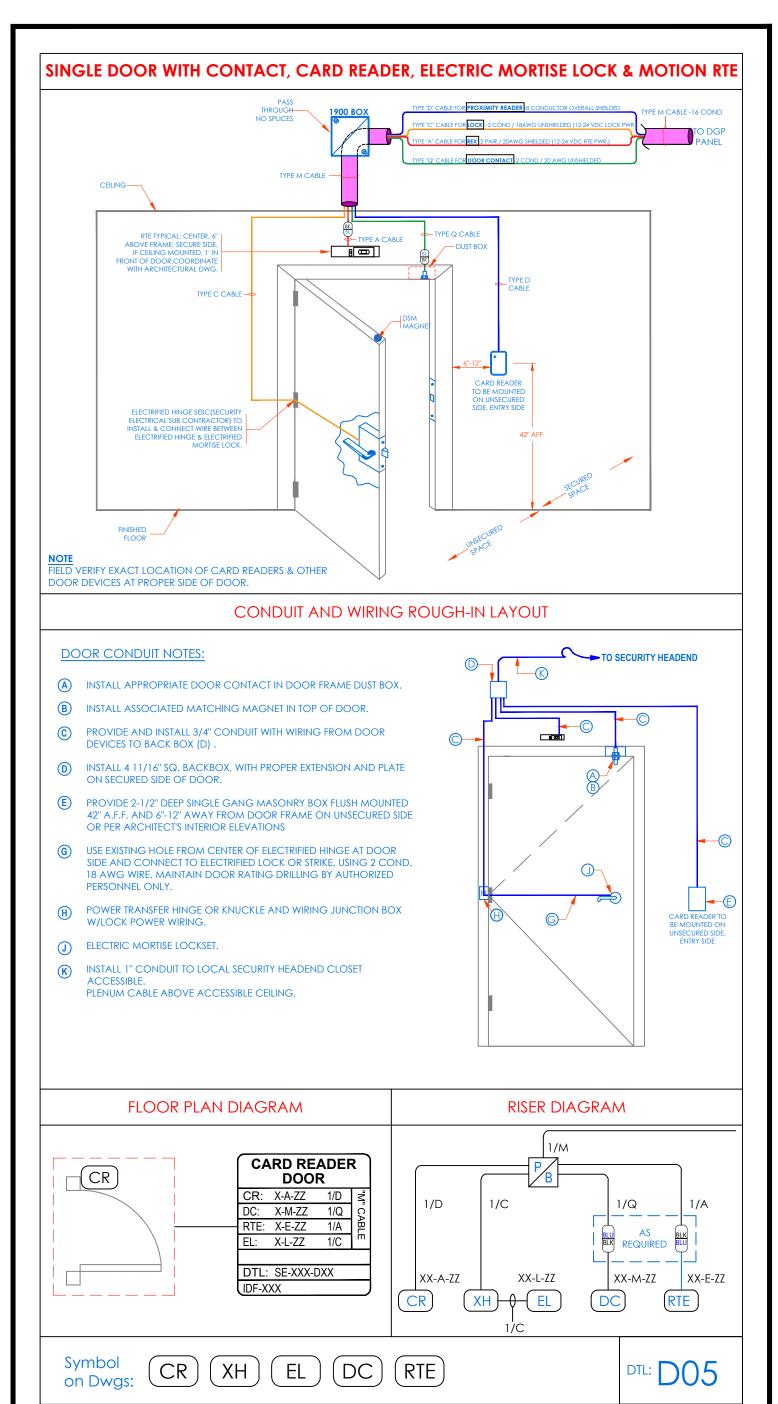


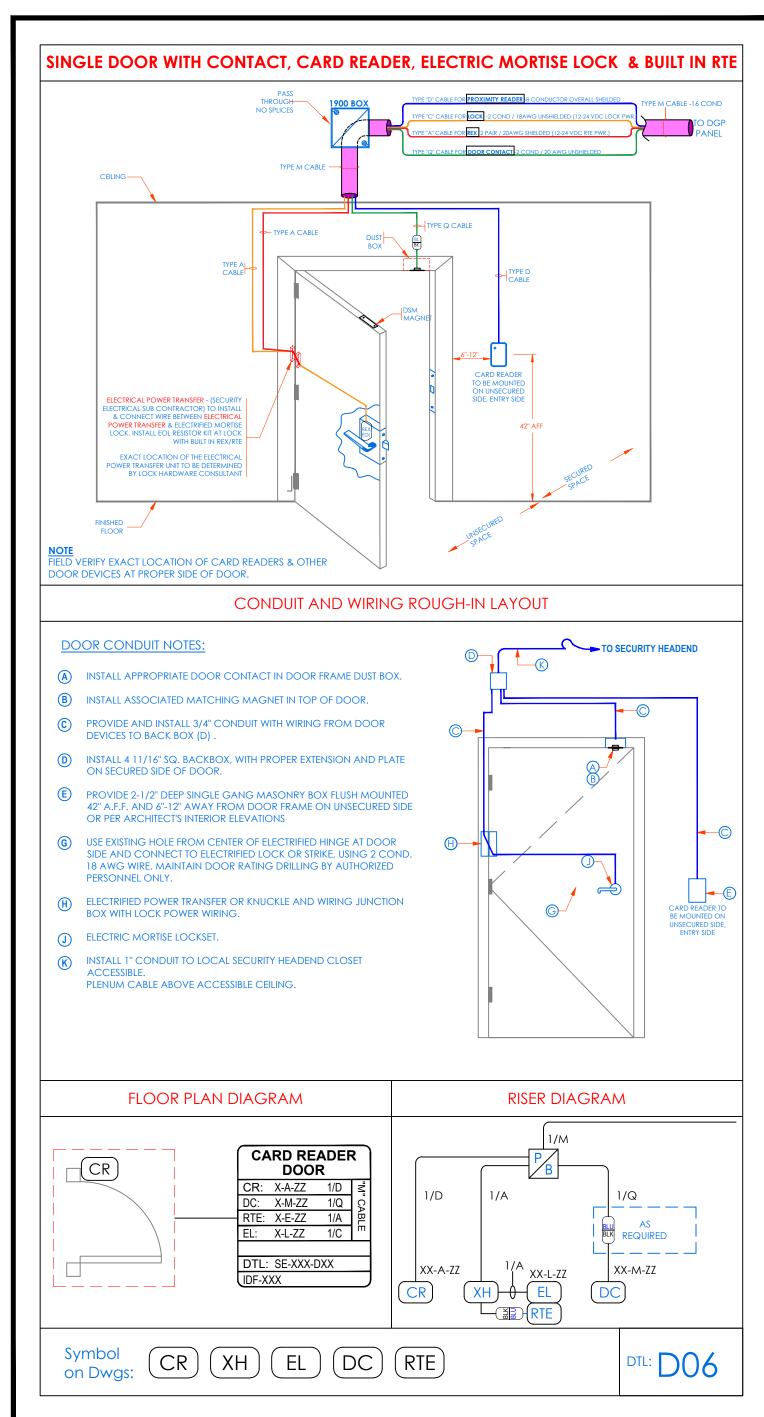


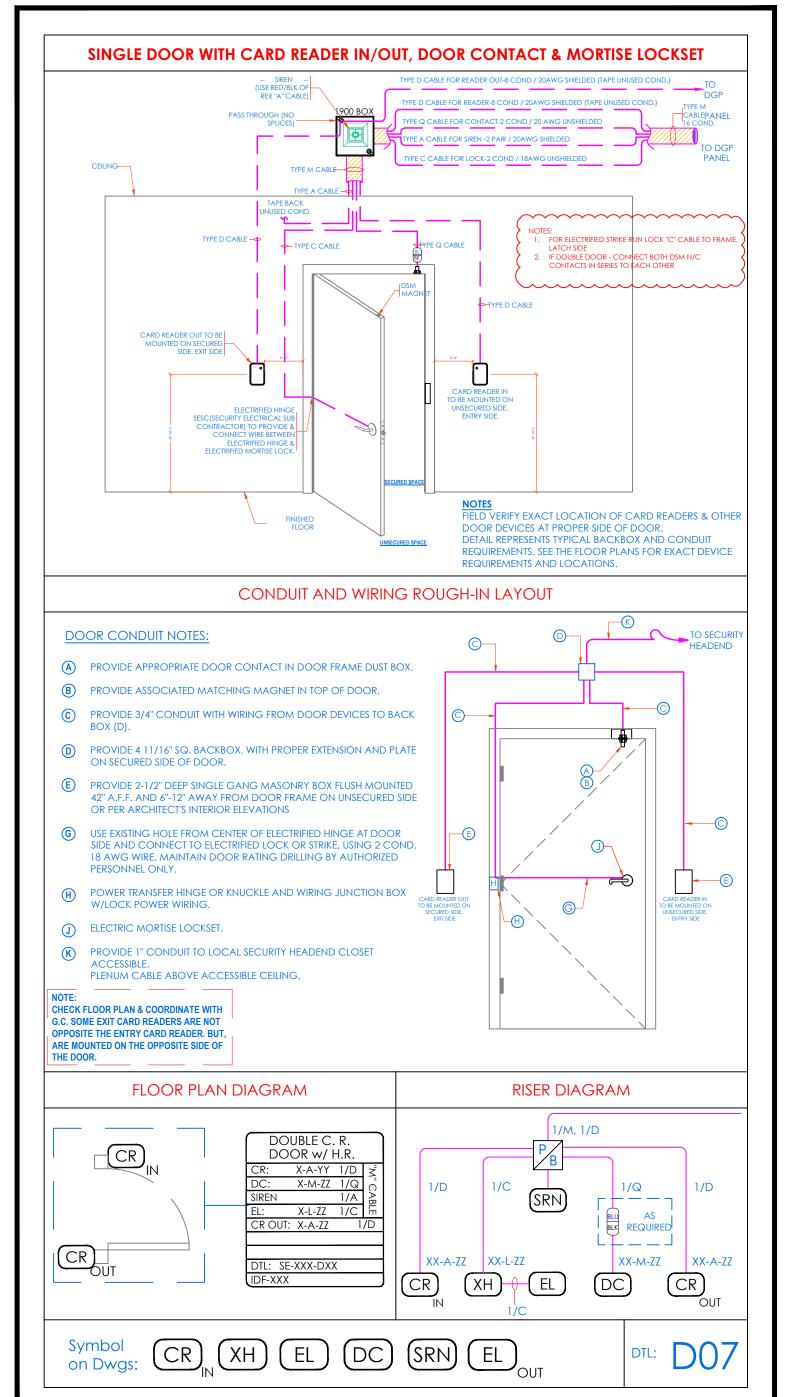


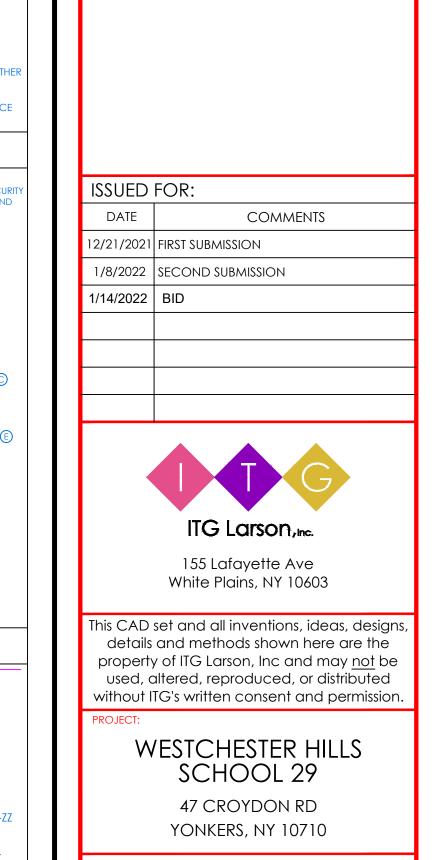












SECURITY EQUIPMENT DETAIL 1

DOOR TYPICALS

12/18/2021

WORK ORDER NO:

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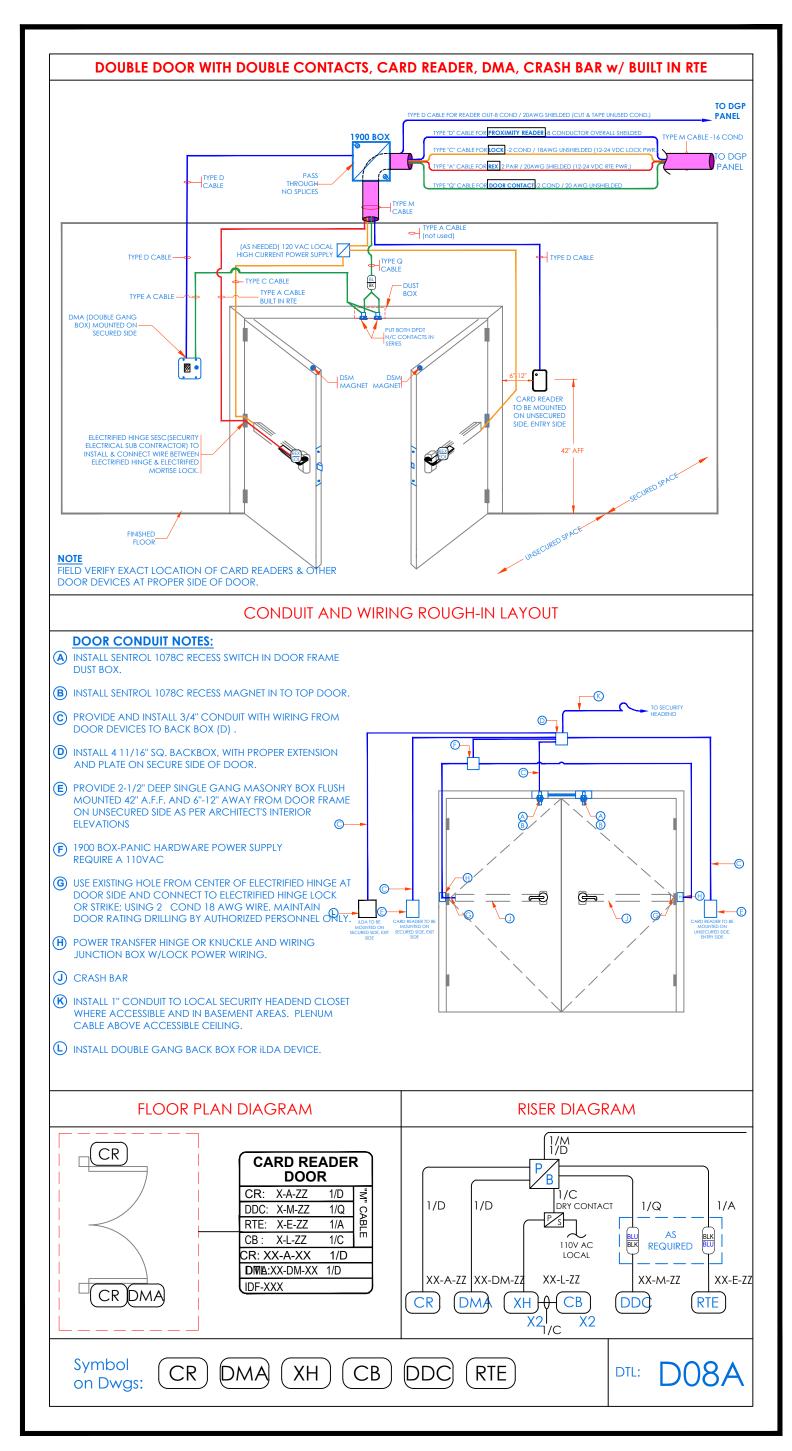
ENTIRE DRAWINGS SET AND

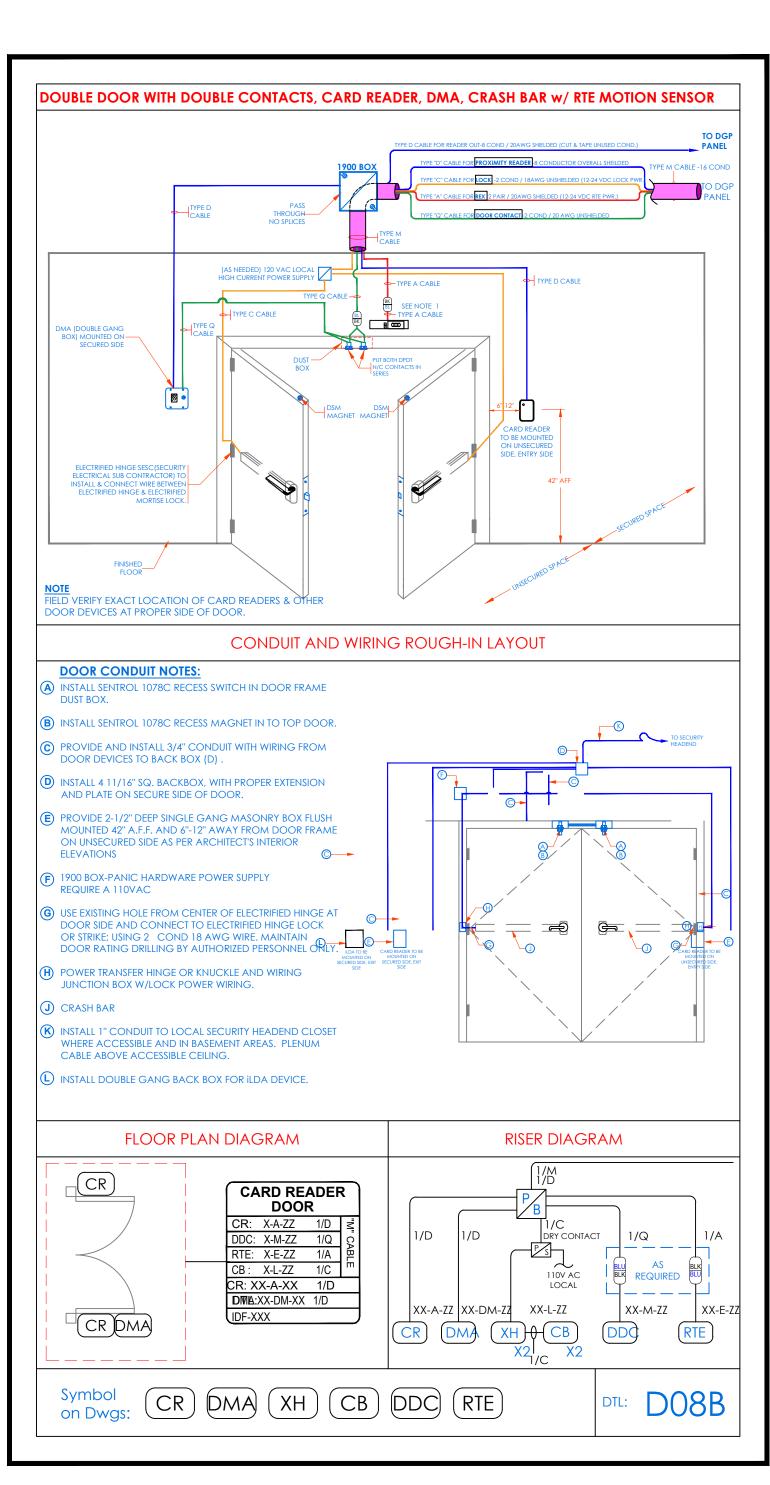
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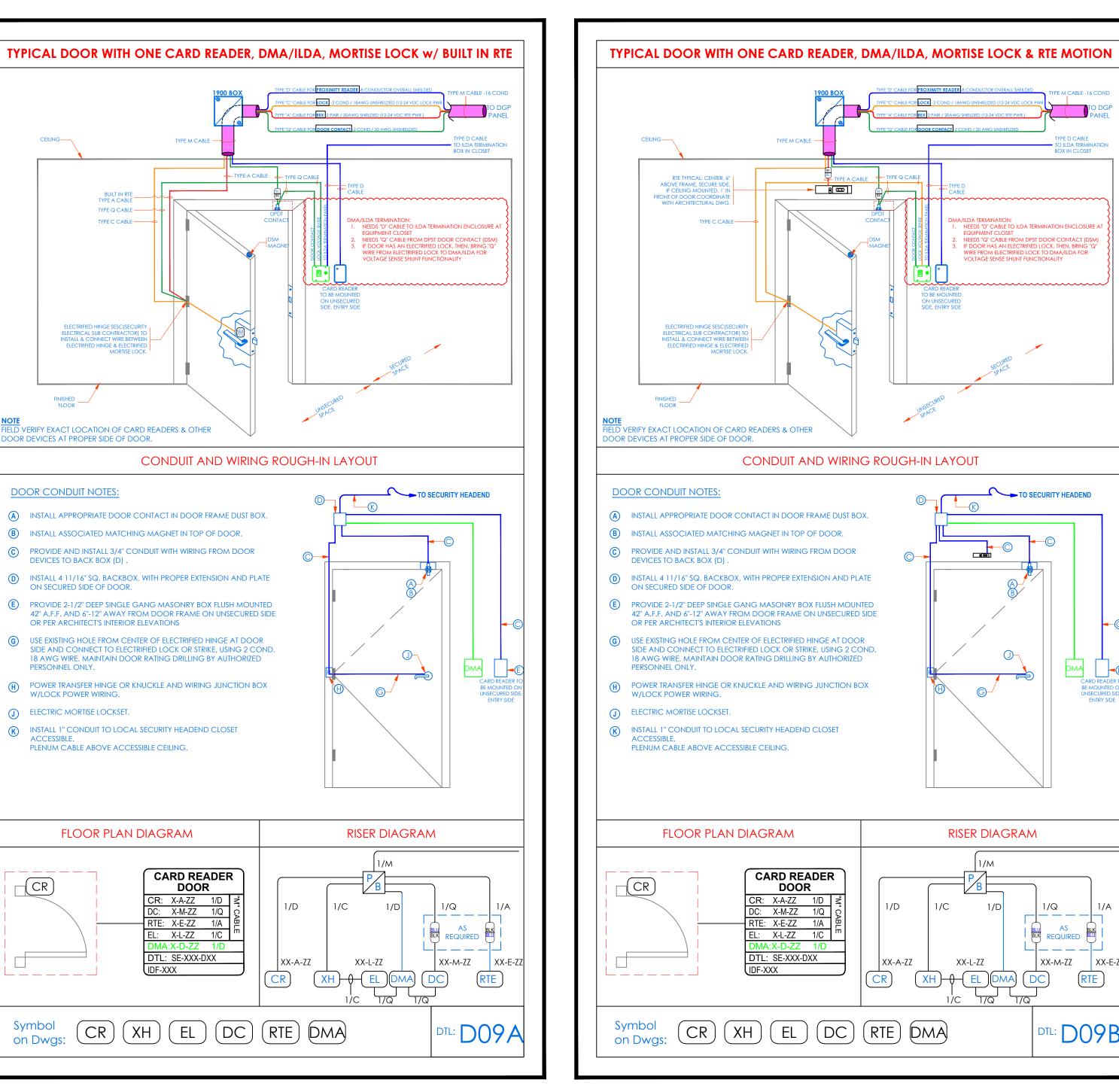
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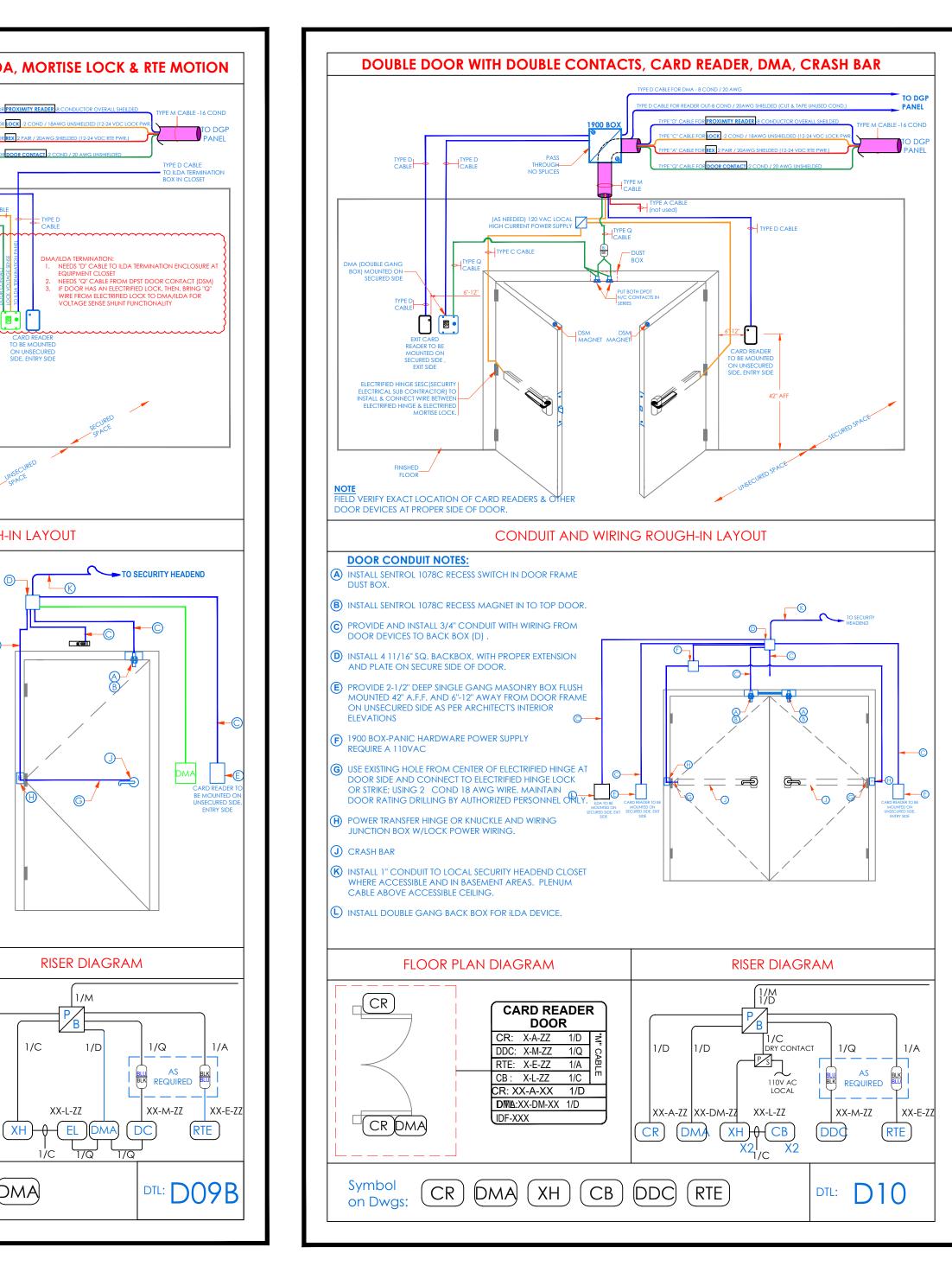
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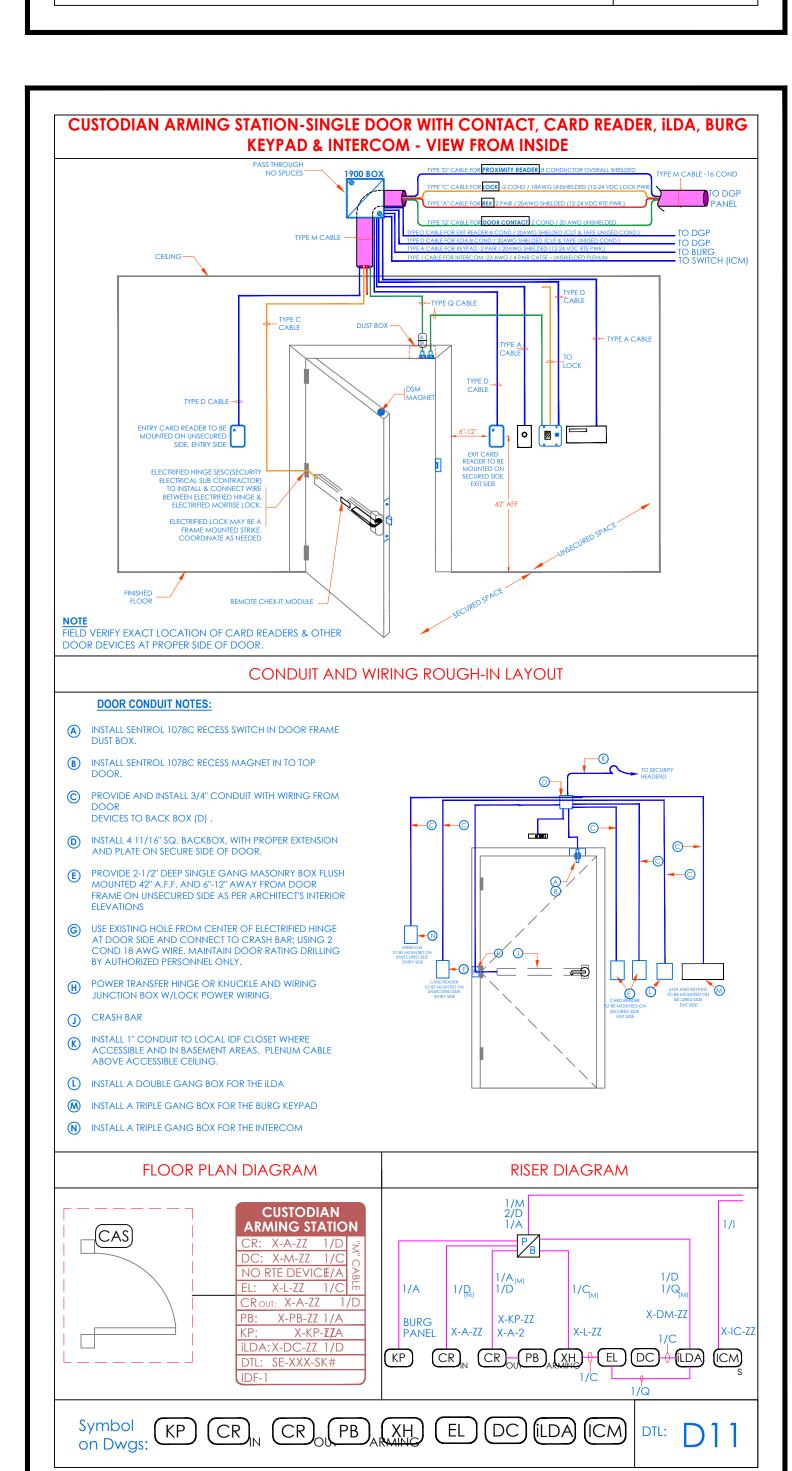
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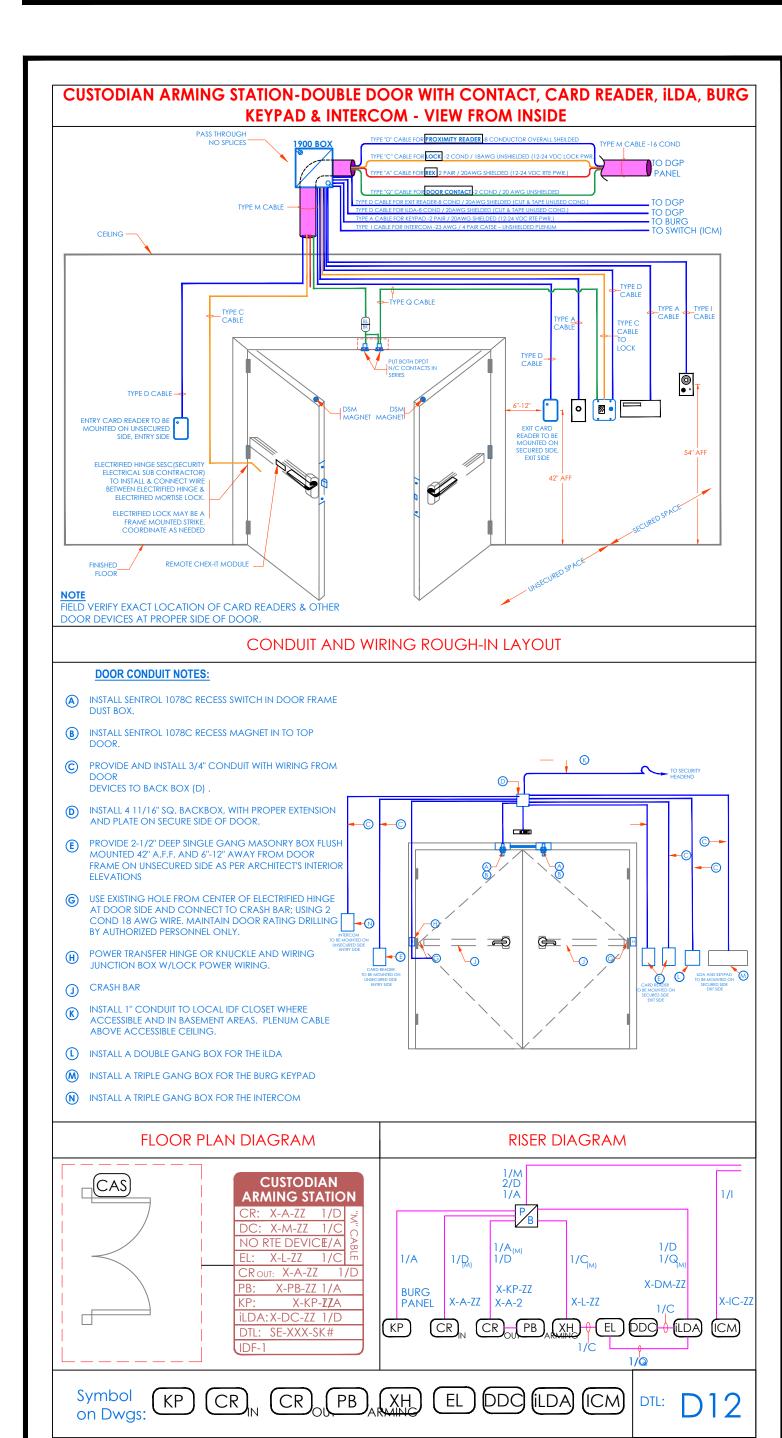


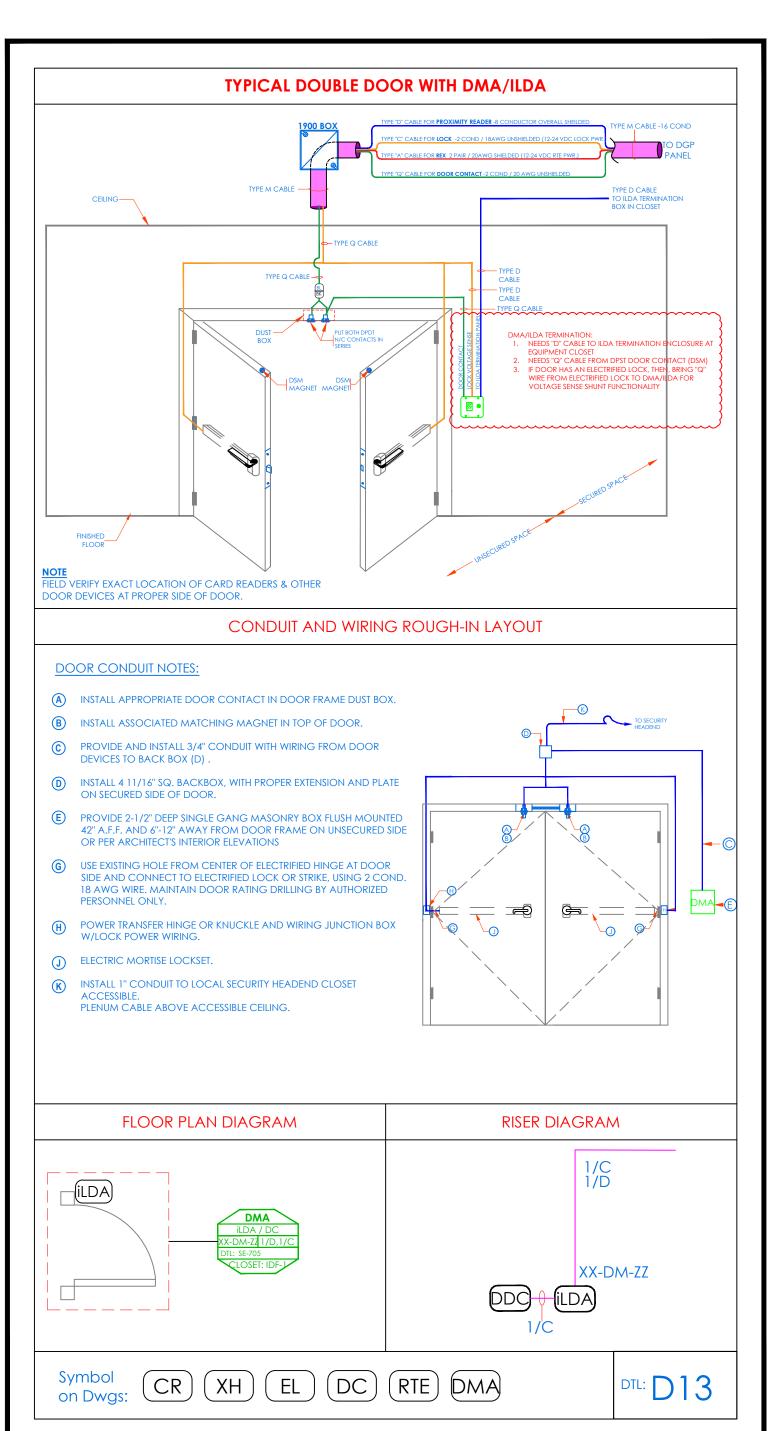


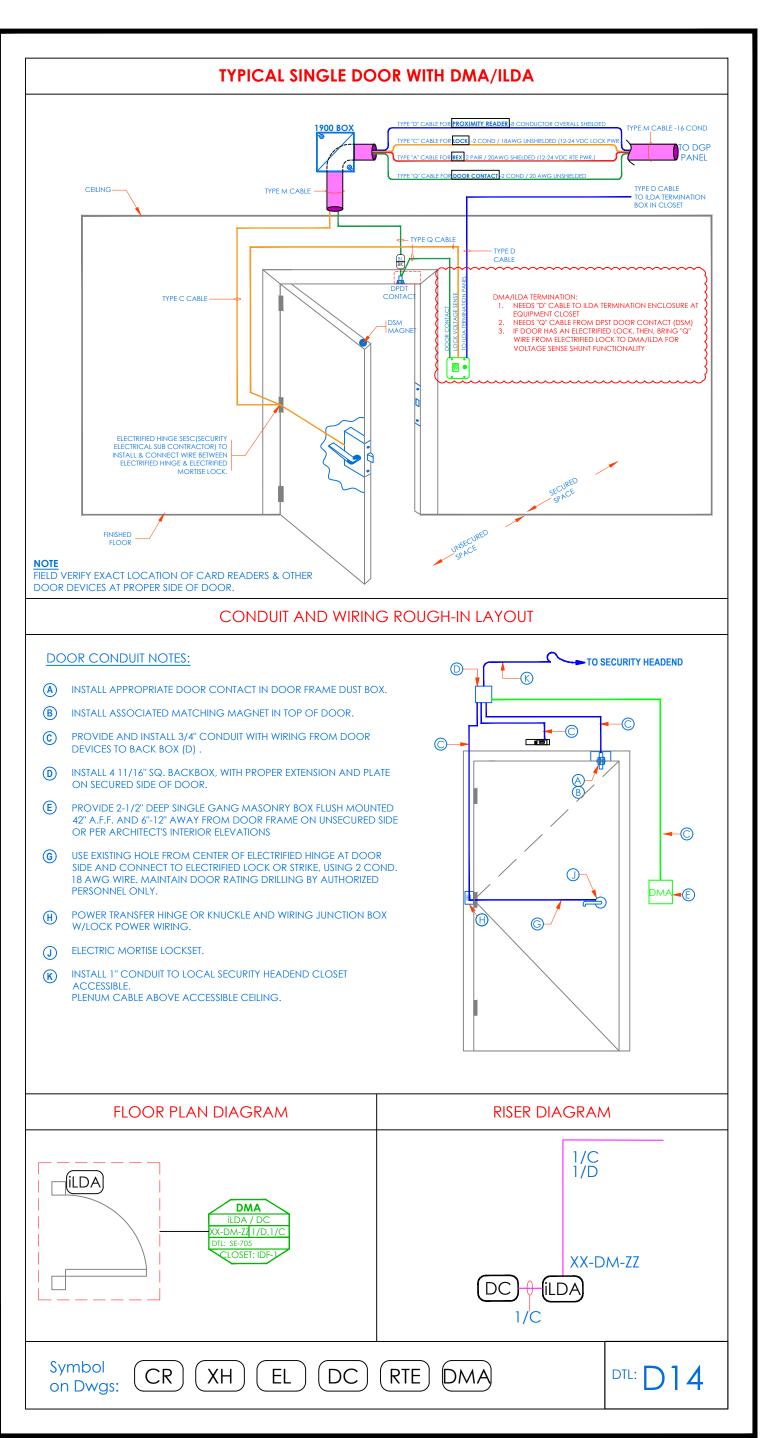


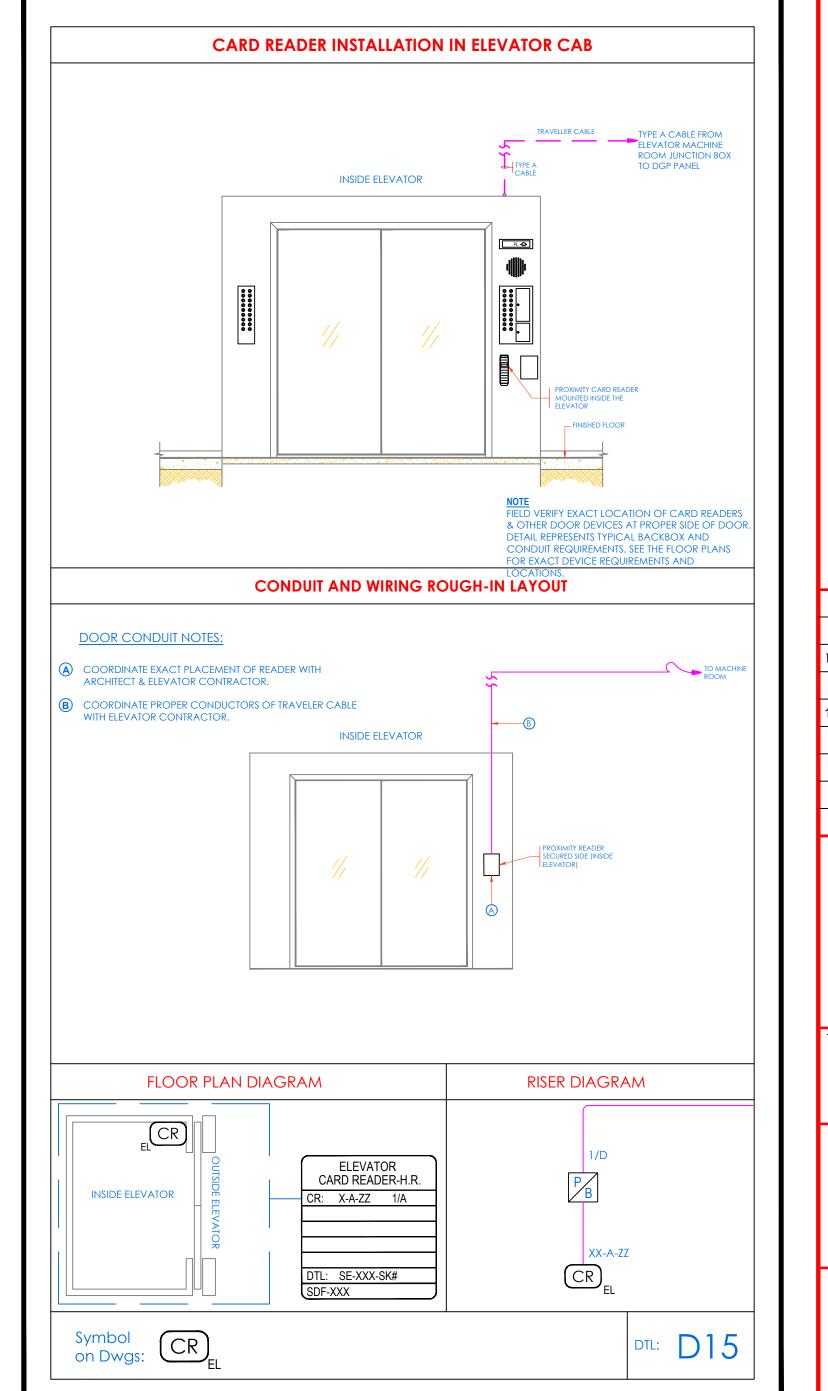


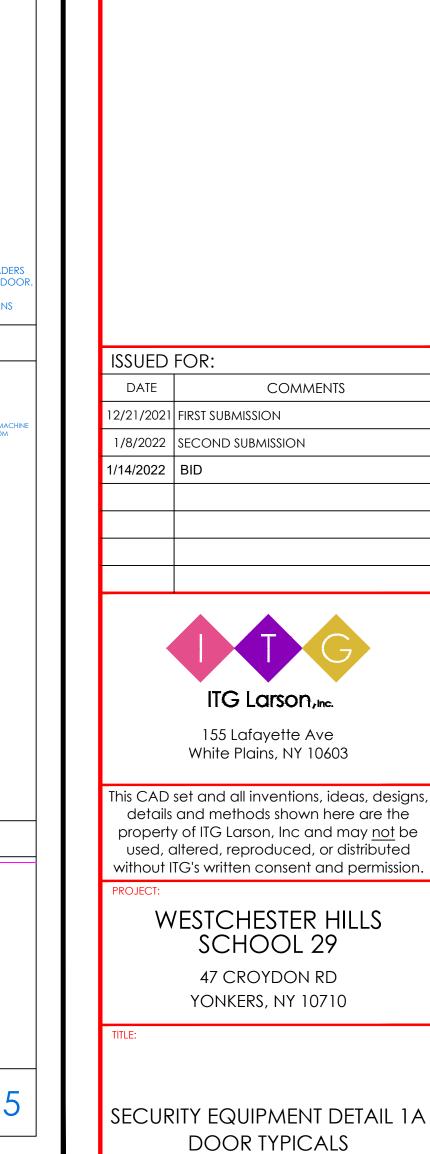












WORK ORDER NO:

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12/18/2021

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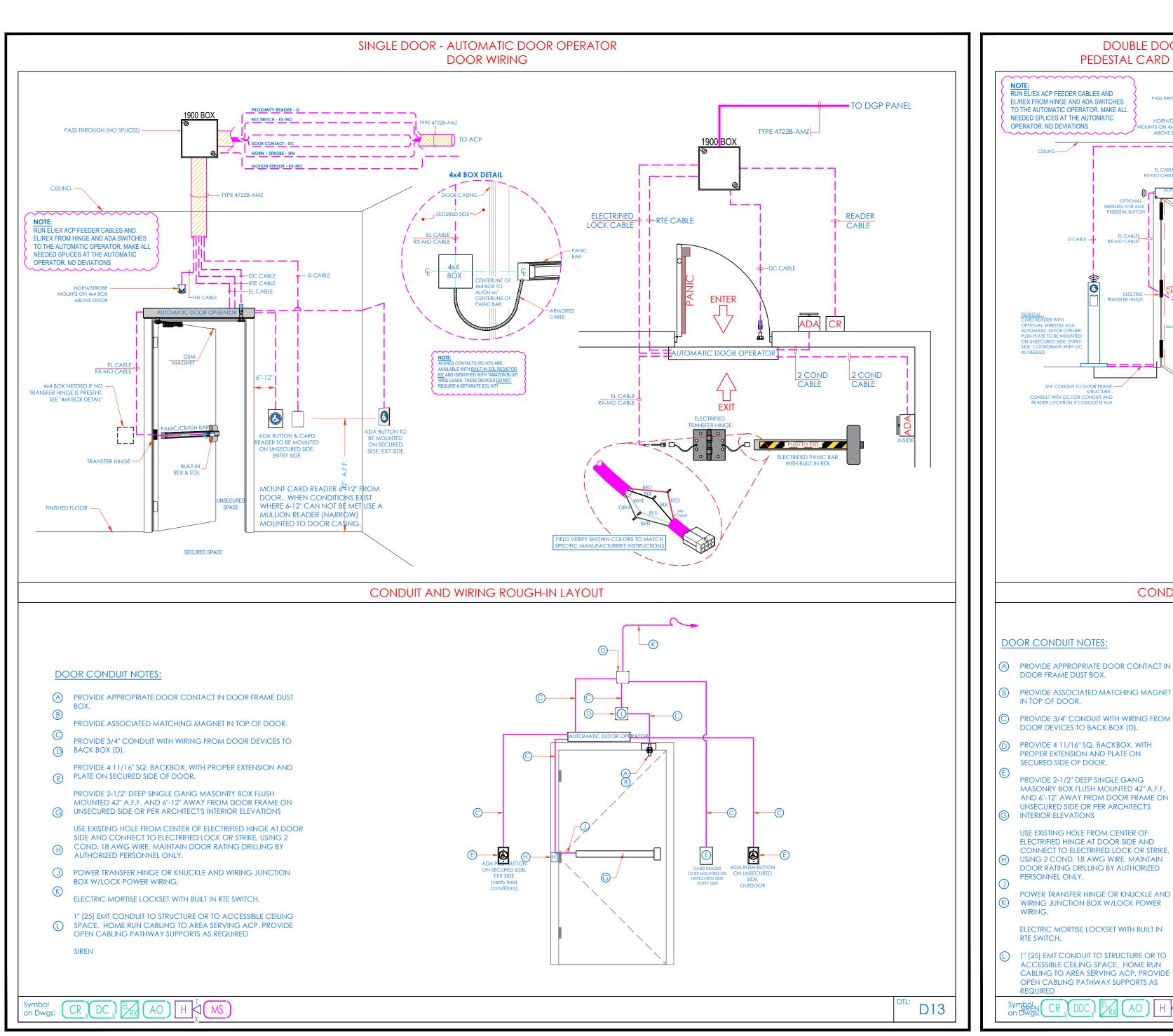
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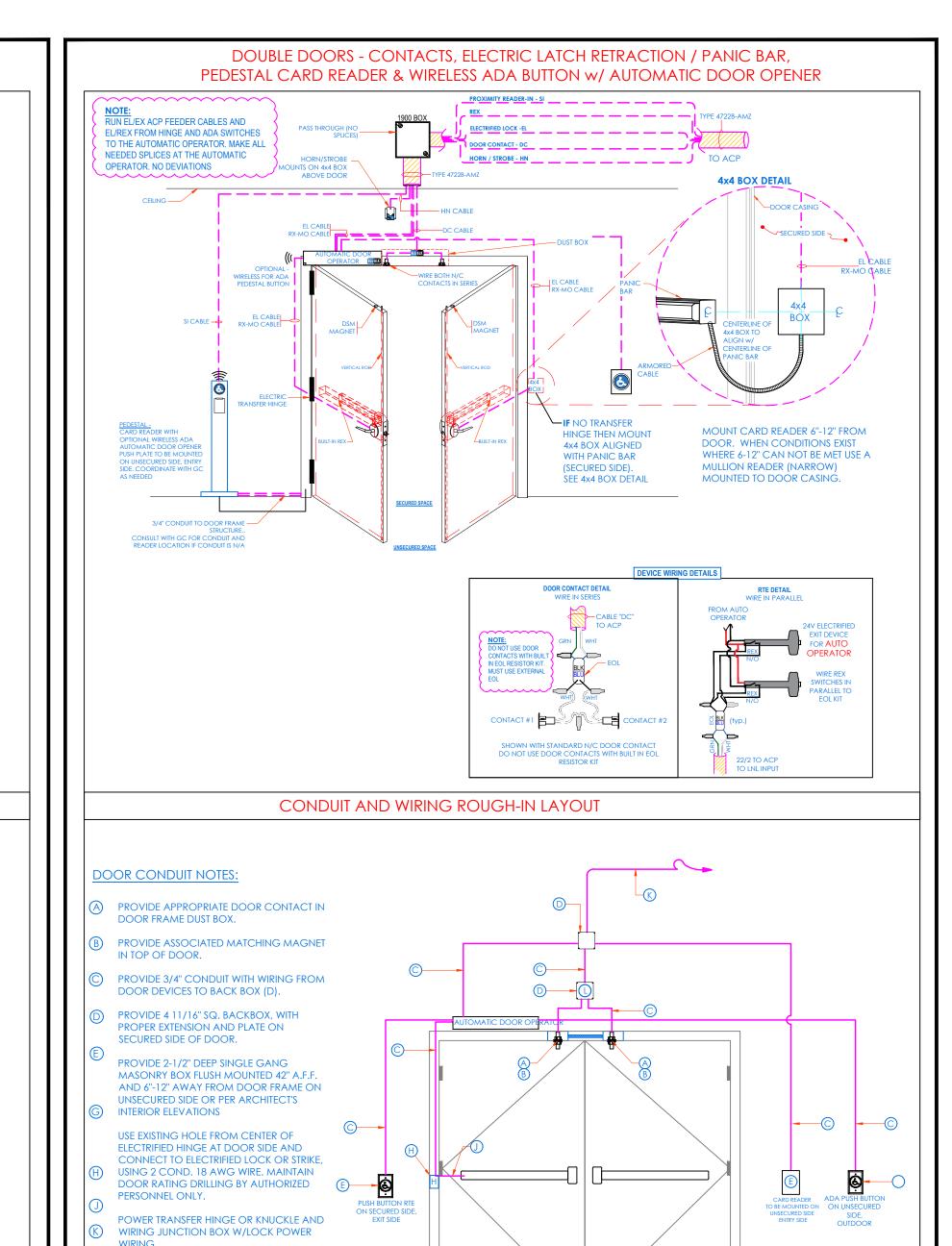
AND NOTE ON THE "AS BUILT"

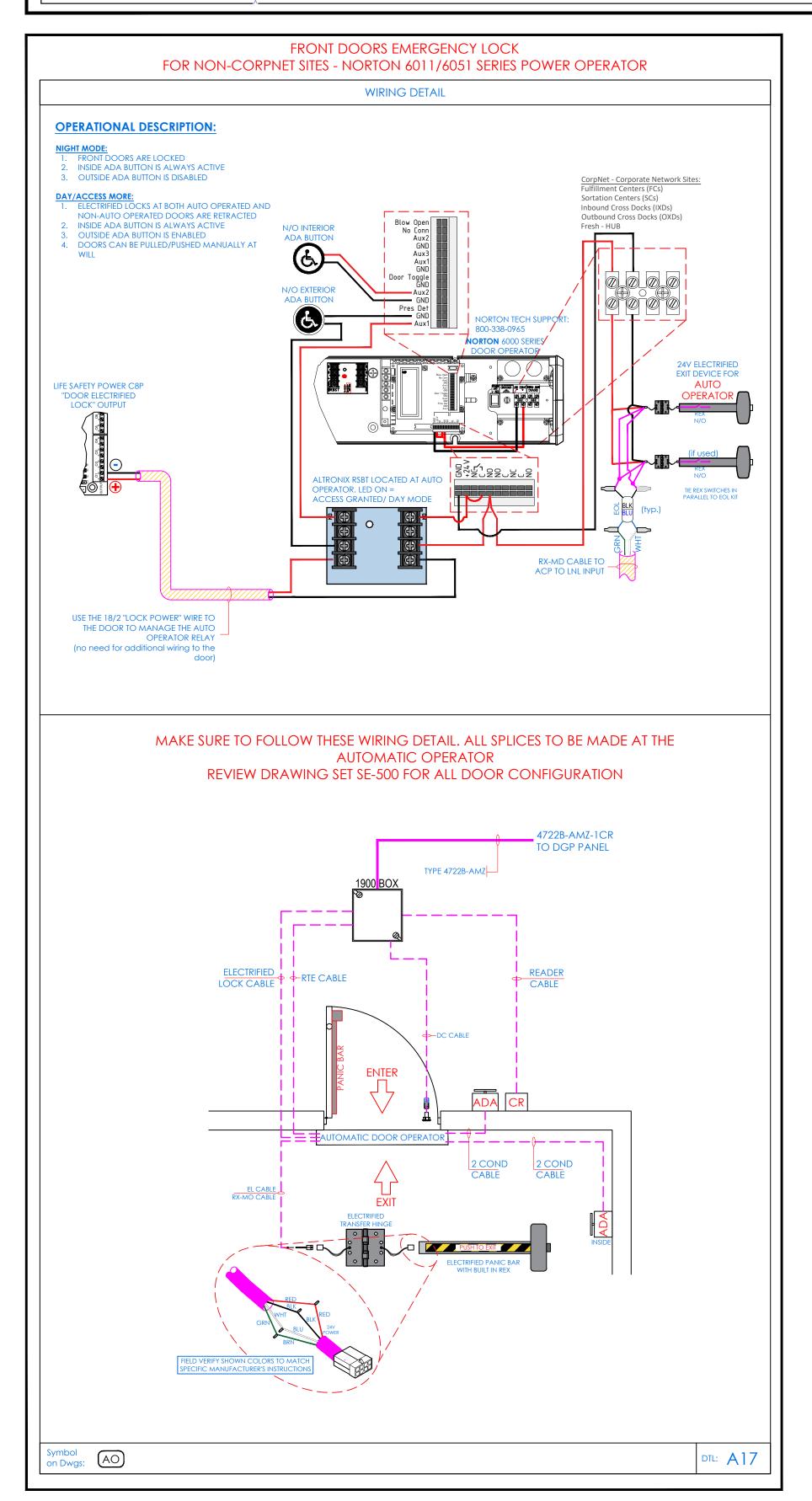
CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND

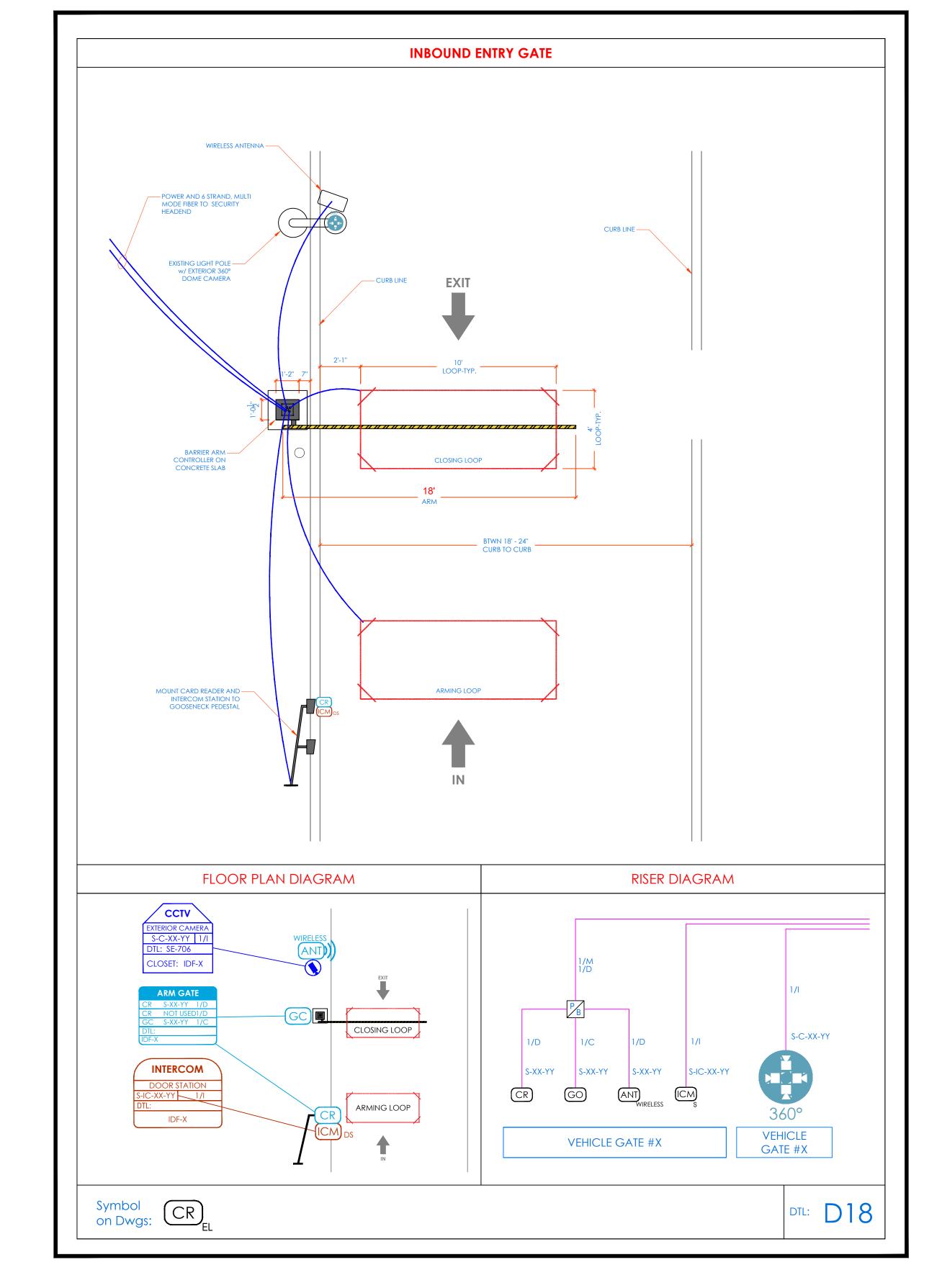
MANAGER.

REFERENCE ONLY.









ELECTRIC MORTISE LOCKSET WITH BUILT IN

ACCESSIBLE CEILING SPACE. HOME RUN CABLING TO AREA SERVING ACP. PROVIDE OPEN CABLING PATHWAY SUPPORTS AS

RTE SWITCH.

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- CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COY BOE. 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED

MANAGER.

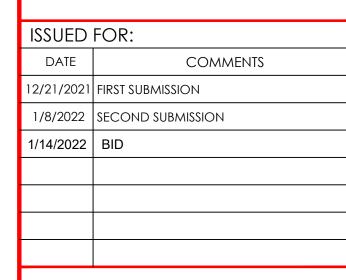
**4.** PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.

TO THE SATISFACTION OF BOE SECURITY

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- 6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER
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- A CD WITH .PDF FORMAT. 8. CONTRACTOR IS RESPONSIBLE FOR
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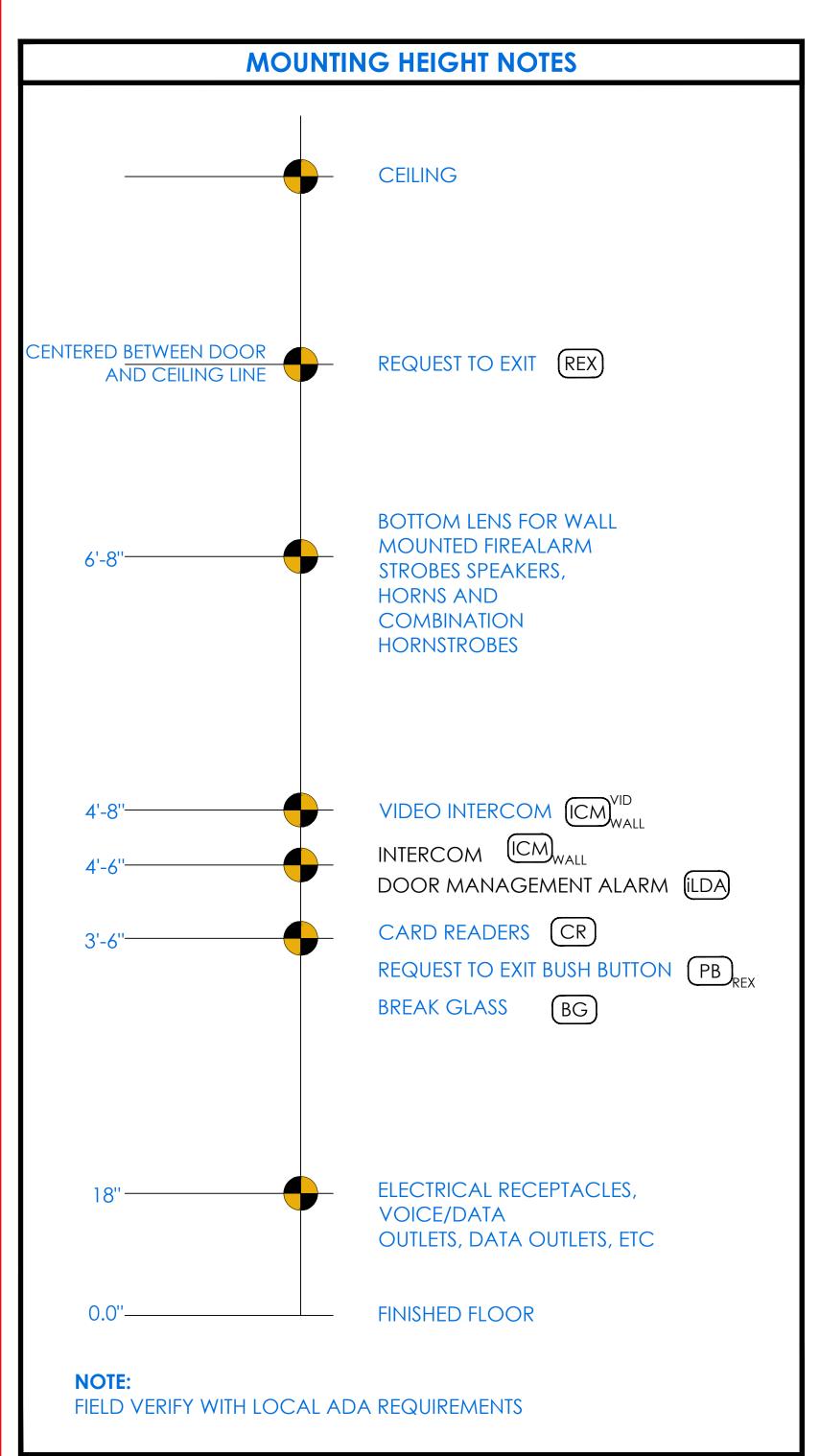
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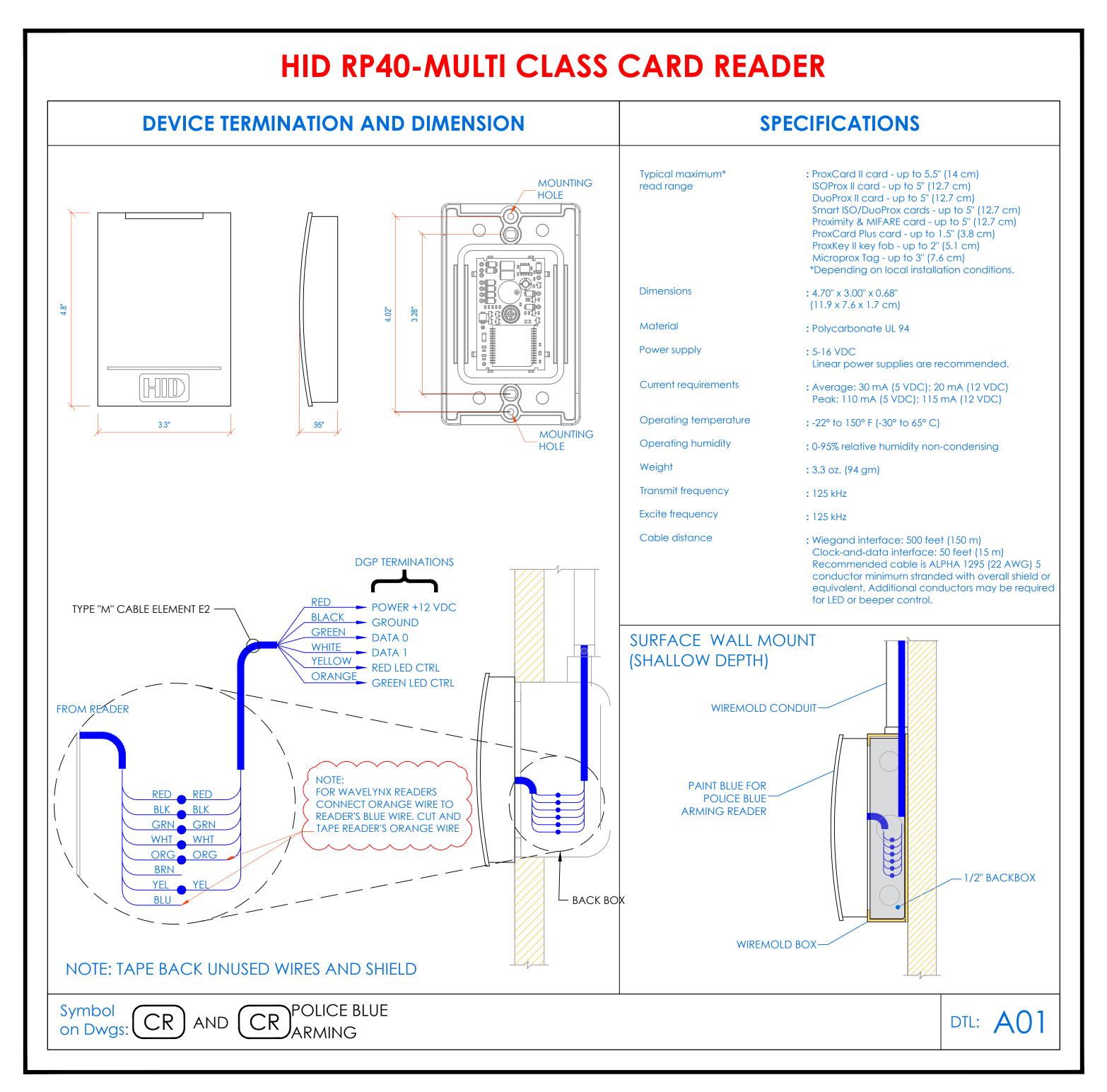
White Plains, NY 10603

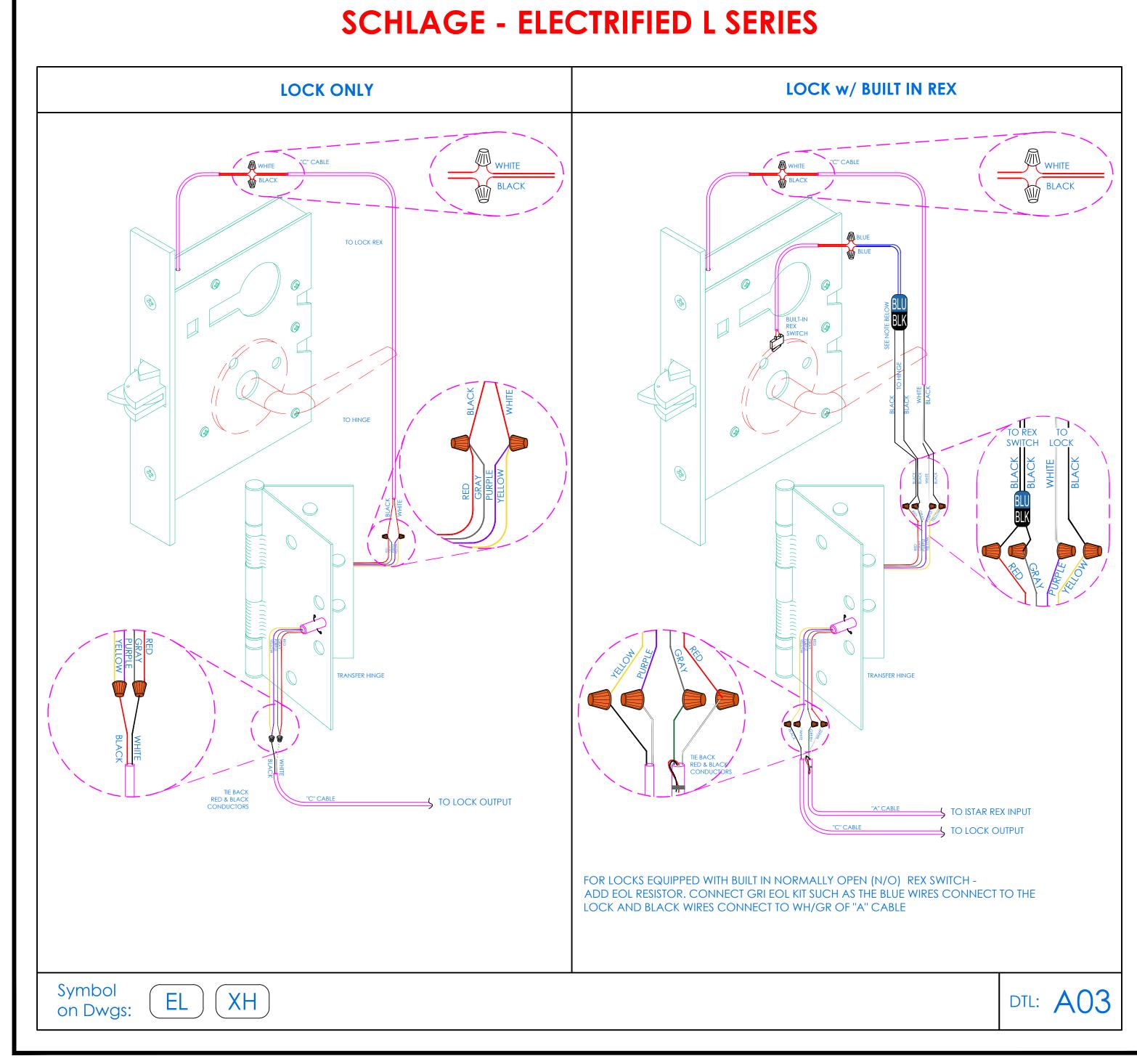
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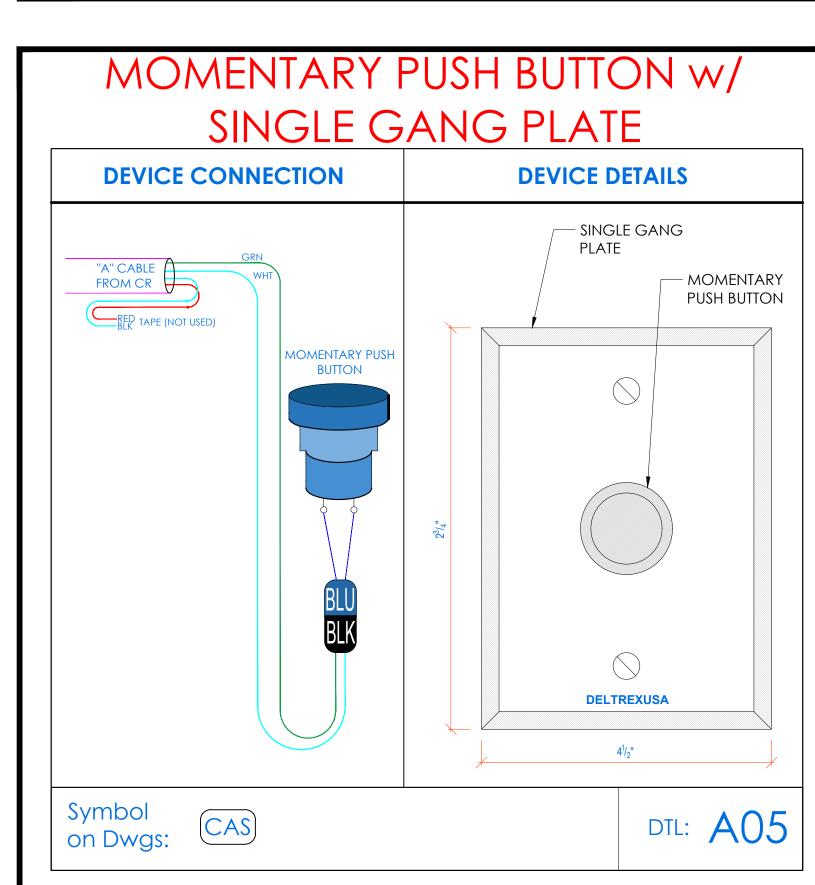
SECURITY EQUIPMENT DETAIL 1B DOOR TYPICALS

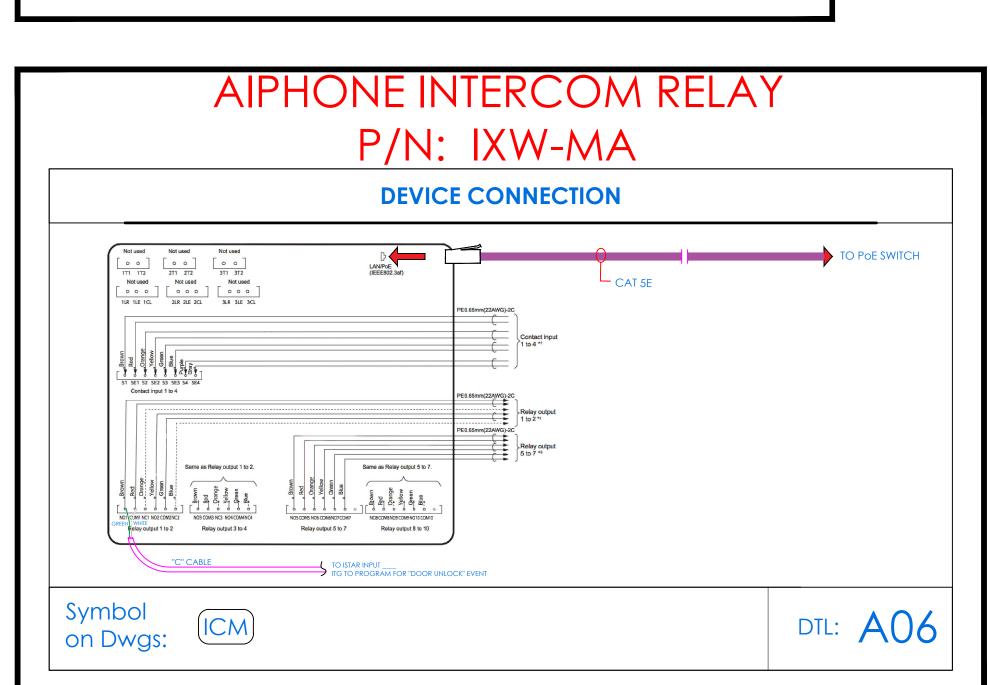
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ORK ORDER NO:	DATE: 1.	2/18/2021
XXXXX	scale: N	.T.S.
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XXXXX	SE-	703B

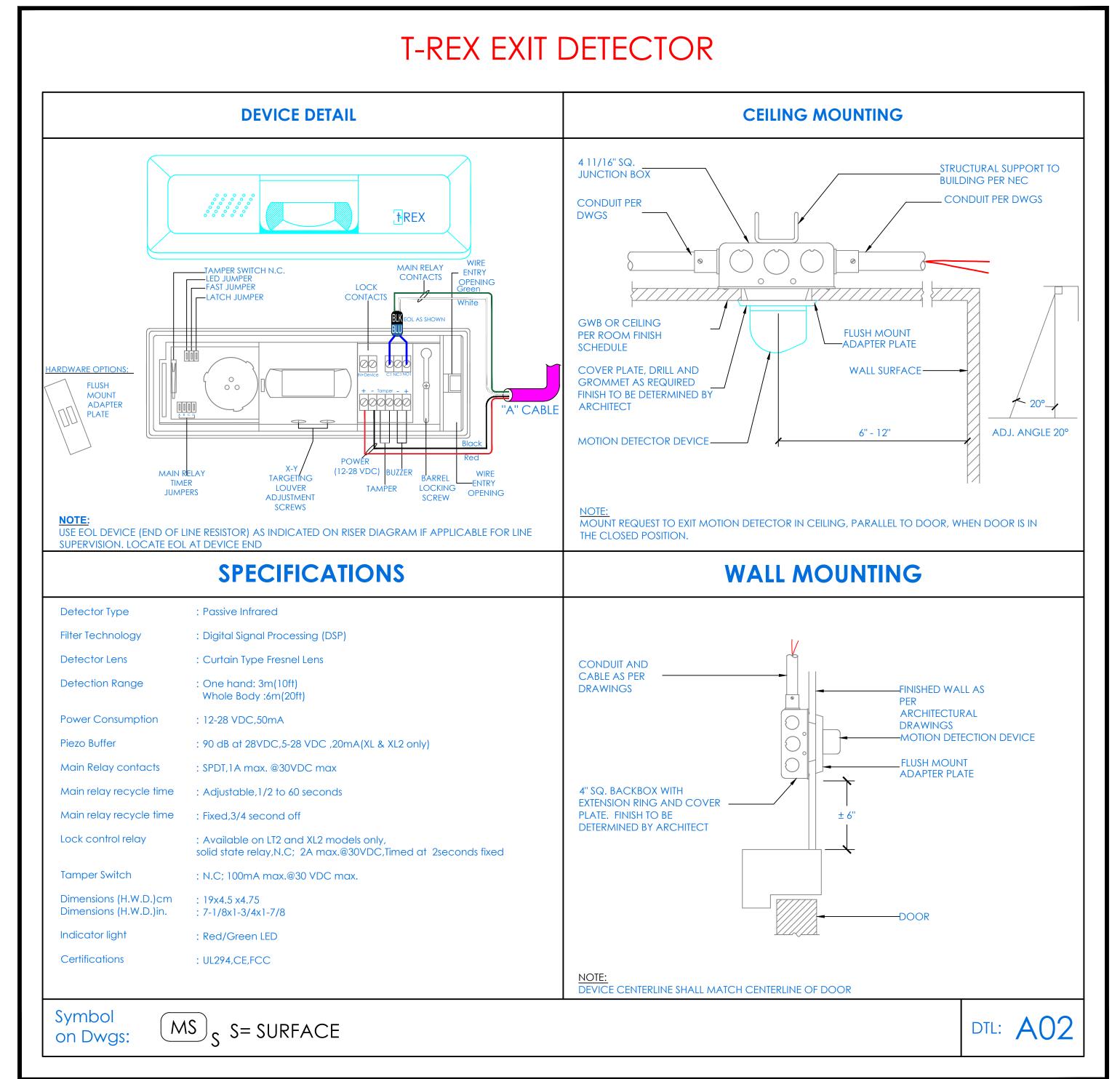


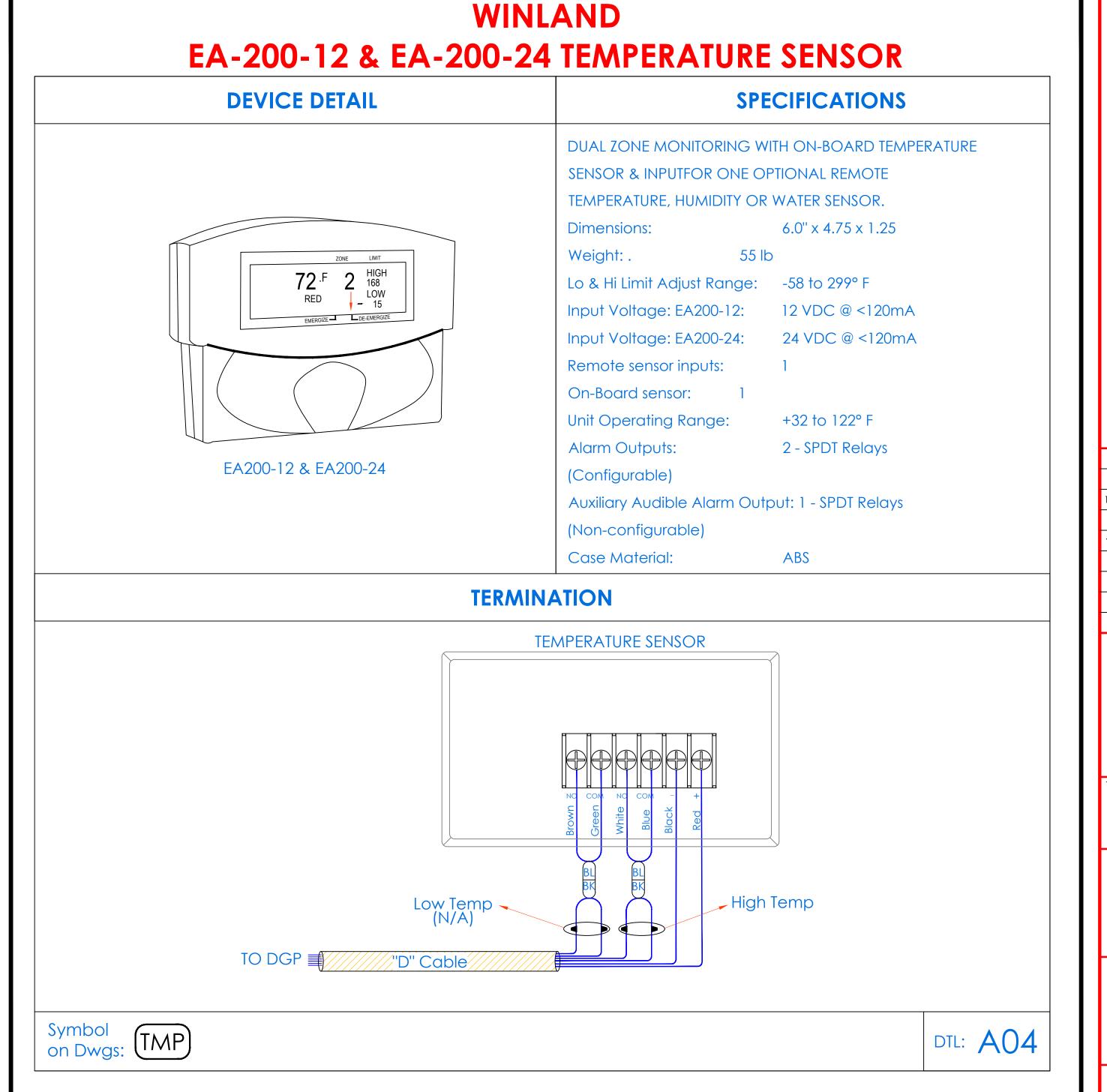














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TO THE SATISFACTION OF BOE SECURITY

WHEN BROUGHT TO CLOSEST CLOSET.

DEVIATIONS FROM THE PROVIDED RISER

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AND NOTE ON THE "AS BUILT"

- BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
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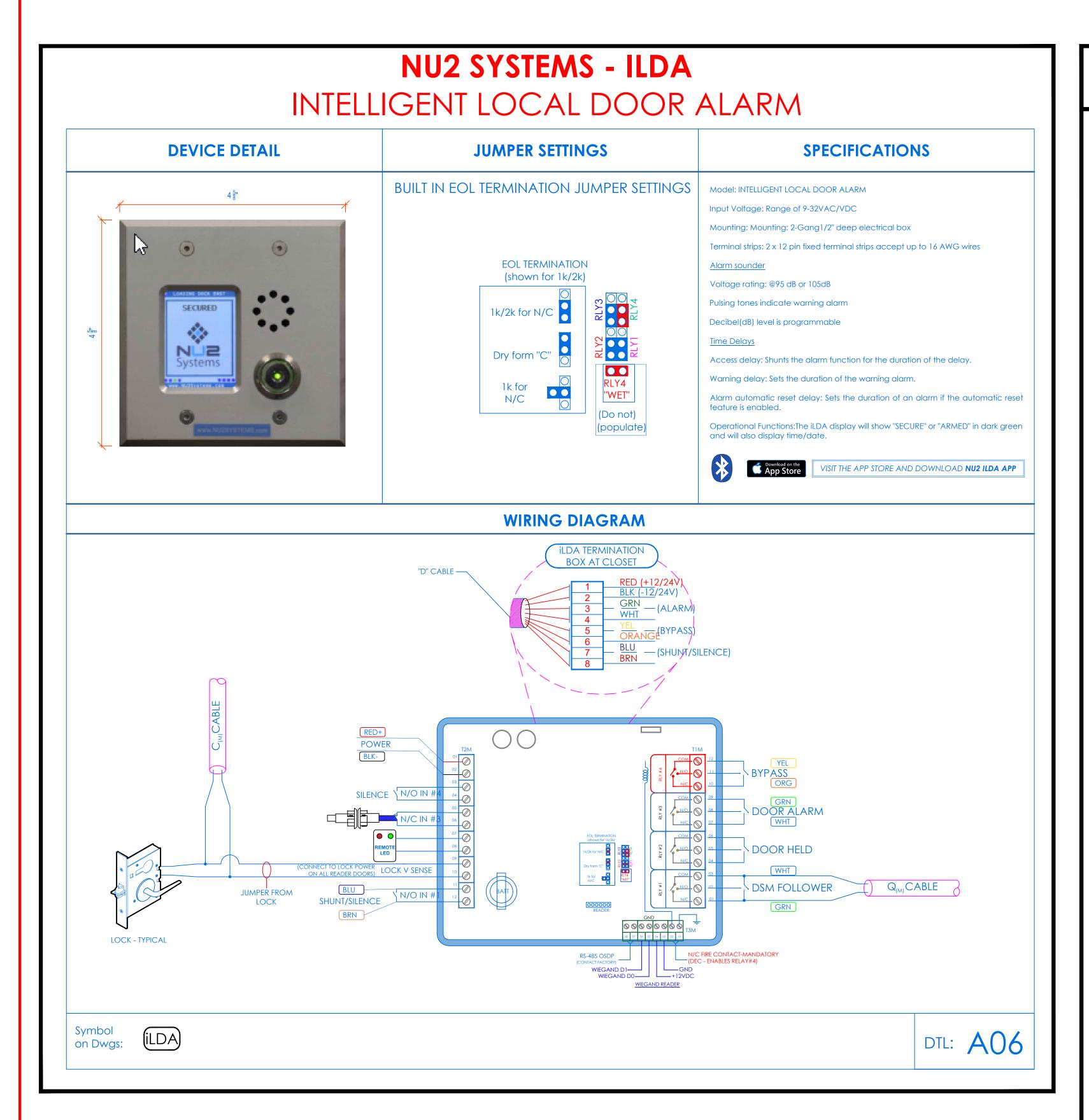
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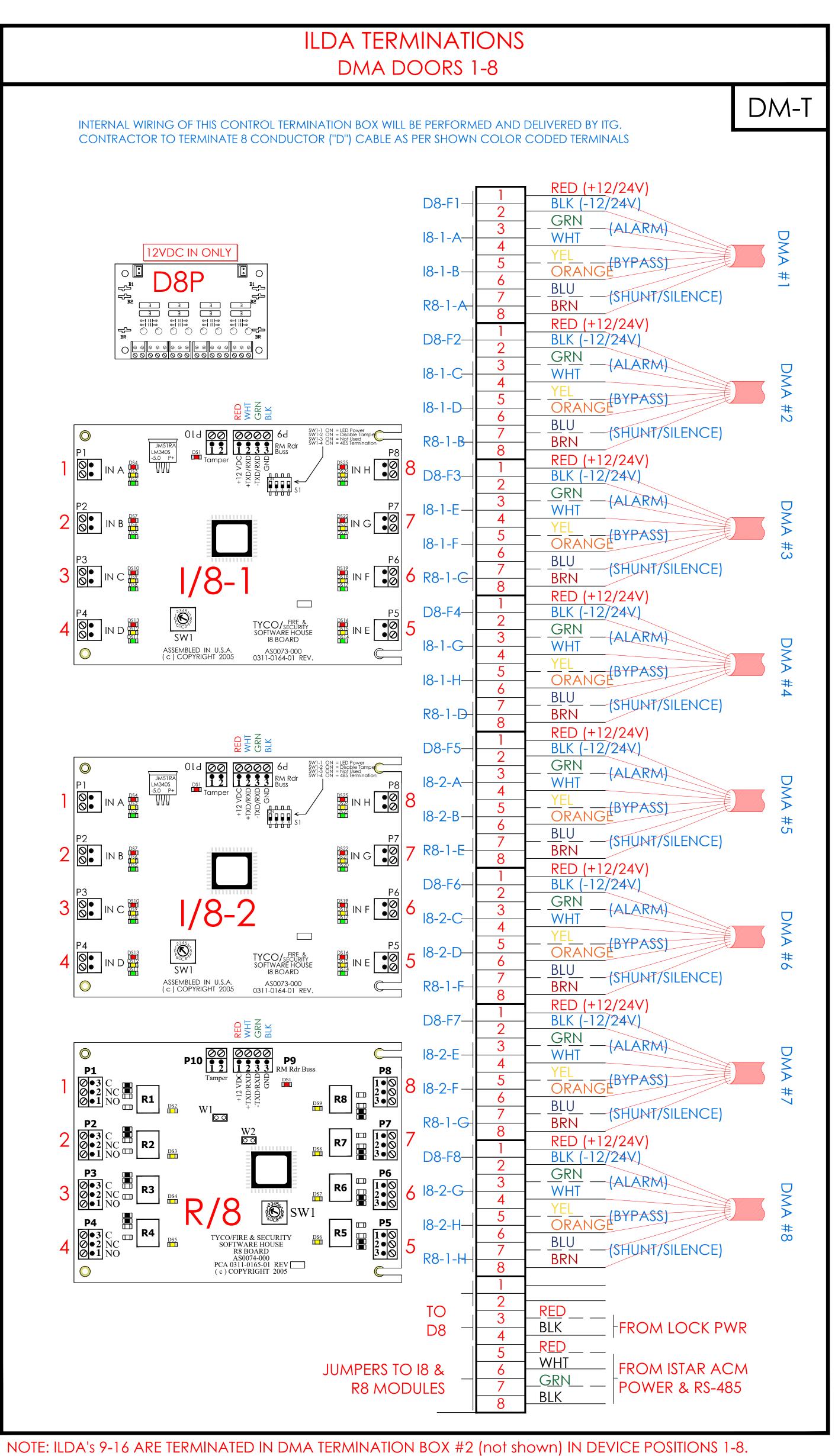
SE-704

SCHOOL 29

47 CROYDON RD

YONKERS, NY 10710





SEE SE-300 CLOSET DETAILS FOR MOUNTING OF BOXES 1&2. SEE ILDA/DMA TERMINATION MATRIX THIS PAGE

## ILDA/DMA TERMINATION MATRIX

	ILC	DA/DM/	A TERMINA	ATION MATRIX	
CLOSET	вох	PORT	DEVICE TAG	LOCATION	
		1	1-01-01-01	KITCHEN (CAS)	
	$\leftarrow$	2	1-02-01-02	DINING	
	Ä	3	1-03-01-03	LOBBY	
	ENCLOSURE	4	1-04-01-04	VESTIBULE	
	Ö	5	1-05-01-05	EXIT CORRIDOR	
	Ş	6	1-06-01-06	CORRIDOR	
		7	1-07-01-07	CORRIDOR F	
		8	1-08-01-08	PASSAGE	
	ENCLOSURE - 2	1	1-09-02-01	CLOAK ROOM 4.3	
		1	2	1-10-02-02	RM 7.1 TO COURTYARD
$\vdash$			3	1-11-02-03	CLOAK RM 3.3 TO COURTYARD
			4	1-12-02-04	CORRIDOR F
0			5	1-13-02-05	CORRIDOR F VESTIBULE
_		6	1-14-02-06	CORRIDOR H	
		Ш	7	1-15-02-07	CORRIDOR H VESTIBULE
		8	1-16-02-08	EXIT CORRIDOR	
		1	1-17-03-01	CORRIDOR H	
	- 3	2	1-18-03-02	GYM TO COURTYARD	
	3E	3	1-19-03-03	GYM TO COURTYARD	
	ENCLOSURE	4	1-20-03-04	CORRIDOR F TO COURTYARD	
	0	5	SPARE		
	101	6	SPARE		
	E	7	SPARE		
		8	SPARE		

	ILC	A/DM	A TERMINA	ATION MATRIX		
CLOSET	вох	PORT	DEVICE TAG	LOCATION		
		1	1-01-01-01	KITCHEN (CAS)		
	- 1	2	1-02-01-02	DINING		
	₹.	3	1-03-01-03	LOBBY		
	ENCLOSURE	4	1-04-01-04	VESTIBULE		
	0.0	5	1-05-01-05	EXIT CORRIDOR		
	ICL	6	1-06-01-06	CORRIDOR		
	EN	7	1-07-01-07	CORRIDOR F		
		8	1-08-01-08	PASSAGE		
		1	1-09-02-01	CLOAK ROOM 4.3		
	RE - 2	- 2	- 2	2	1-10-02-02	RM 7.1 TO COURTYARD
$\vdash$		3	1-11-02-03	CLOAK RM 3.3 TO COURTYARD		
	UF	4	1-12-02-04	CORRIDOR F		
IDF-	ENCLOSURE	5	1-13-02-05	CORRIDOR F VESTIBULE		
=	ICL	6	1-14-02-06	CORRIDOR H		
	EN	7	1-15-02-07	CORRIDOR H VESTIBULE		
		8	1-16-02-08	EXIT CORRIDOR		
		1	1-17-03-01	CORRIDOR H		
	₹ - 3	2	1-18-03-02	GYM TO COURTYARD		
		3	1-19-03-03	GYM TO COURTYARD		
	ENCLOSURE	4	1-20-03-04	CORRIDOR F TO COURTYARD		
	50.	5	SPARE			
	ICL	6	SPARE			
	EN	7	SPARE			
		8	SPARE			

ISSUED FOR:		
DATE	COMMENTS	
12/21/2021	first submission	
1/8/2022	second submission	
1/14/2022	BID	

1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR

2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE

3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY

SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY

ENTIRE DRAWINGS SET AND

SOLUTION TO COY BOE.

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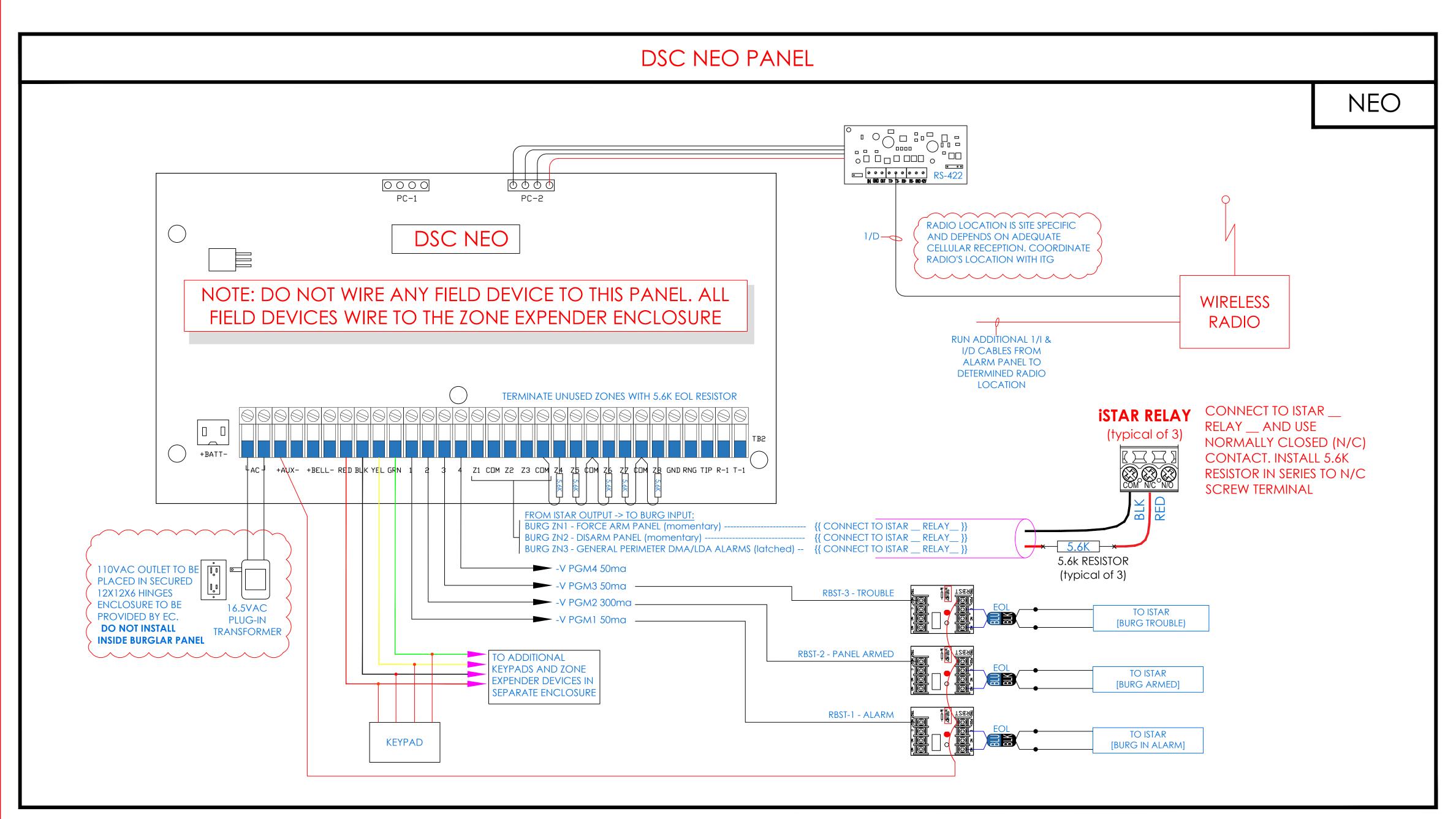
155 Lafayette Ave White Plains, NY 10603

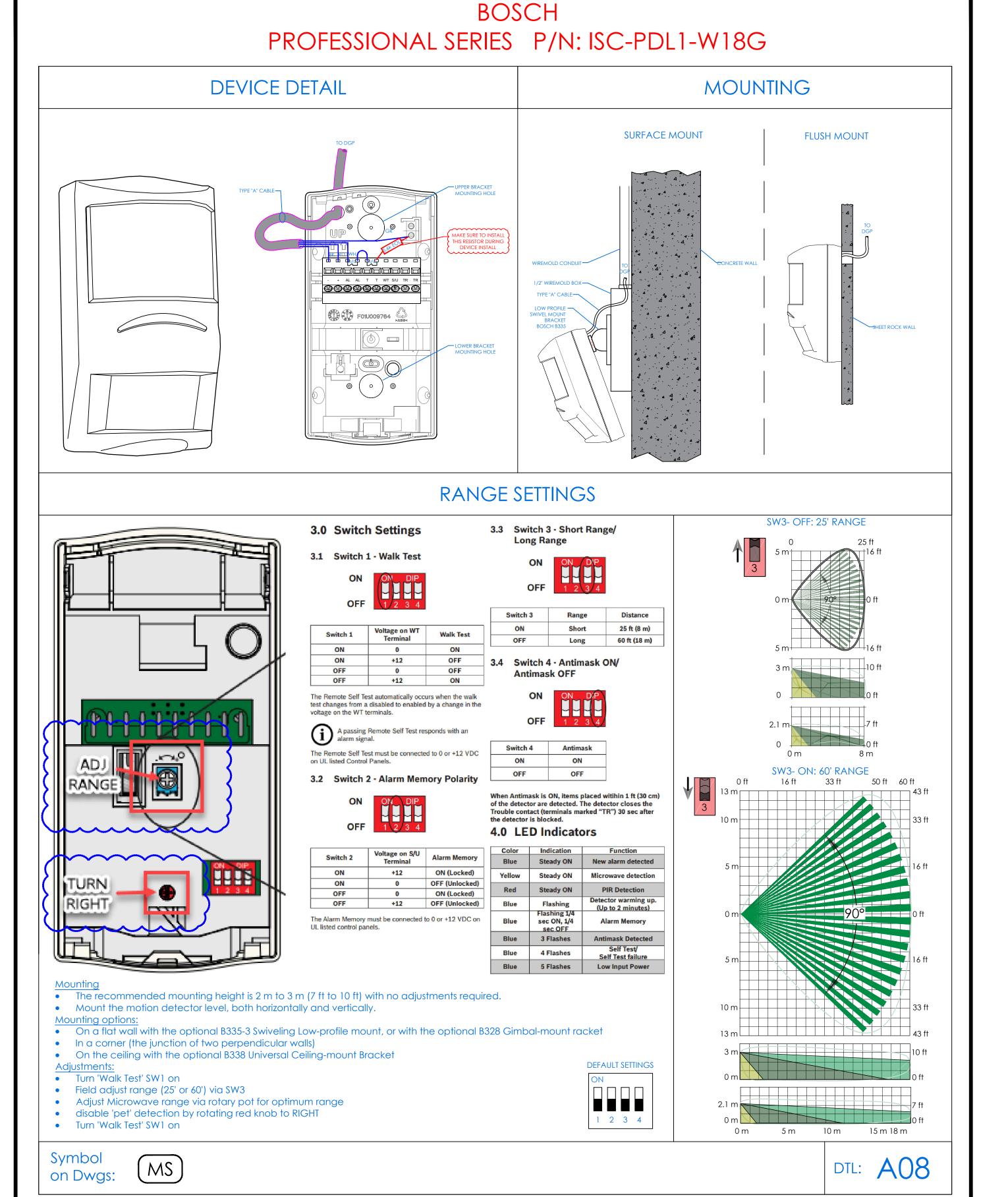
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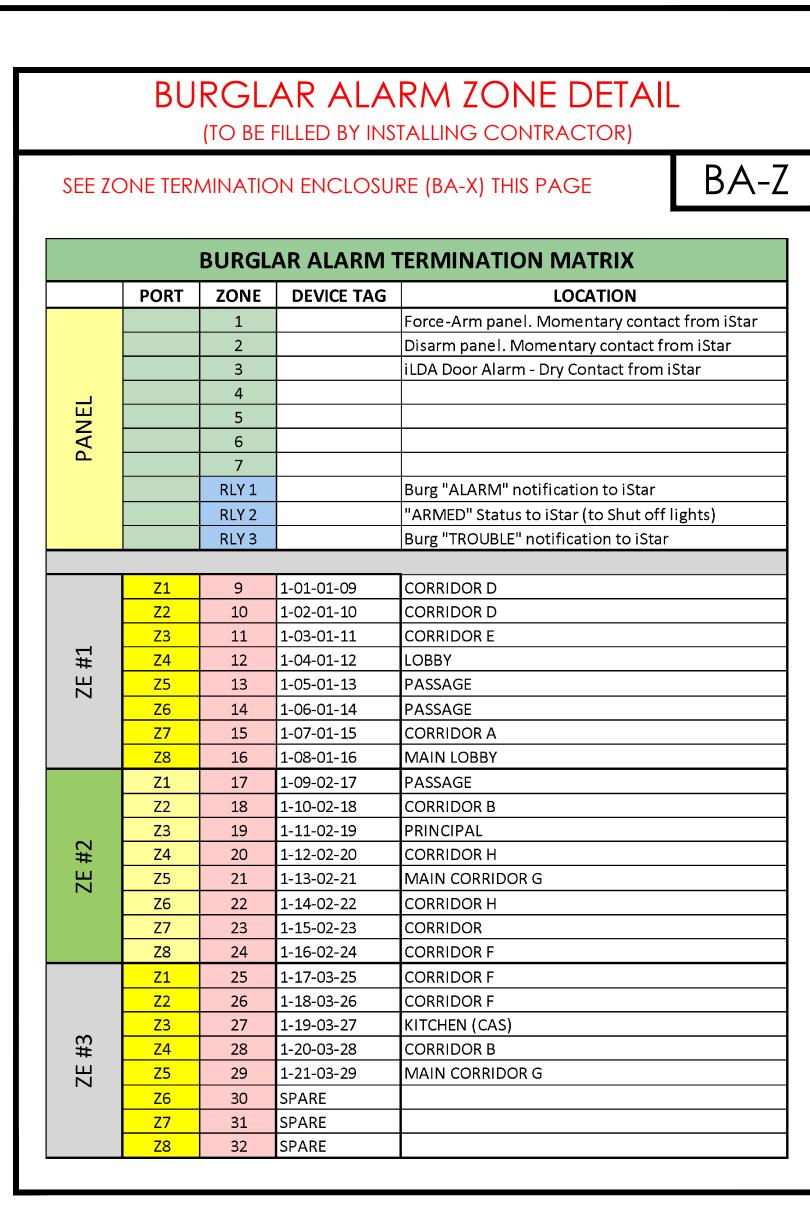
> WESTCHESTER HILLS SCHOOL 29 47 CROYDON RD YONKERS, NY 10710

SECURITY EQUIPMENT DETAIL 3 ILDA DEVICE TYPICALS

12/18/2021 XXXXXX N.T.S. SE-705 XXXXXX

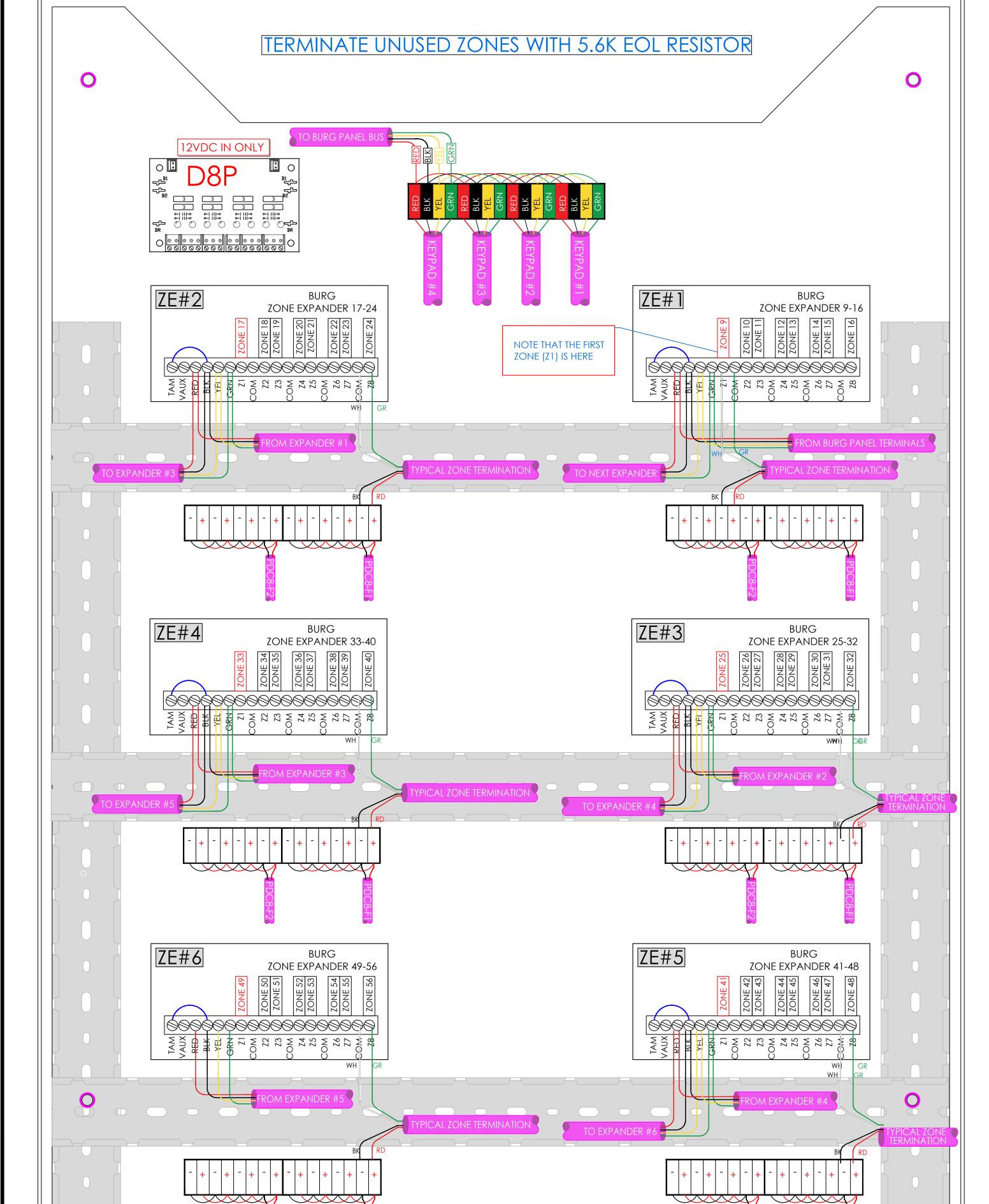






# BURGLAR ALARM ZONE EXPANDER MODULE CONFIGURATION & WIRING

BA-X



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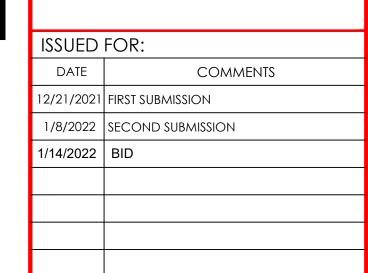
DEVIATIONS FROM THE PROVIDED RISER

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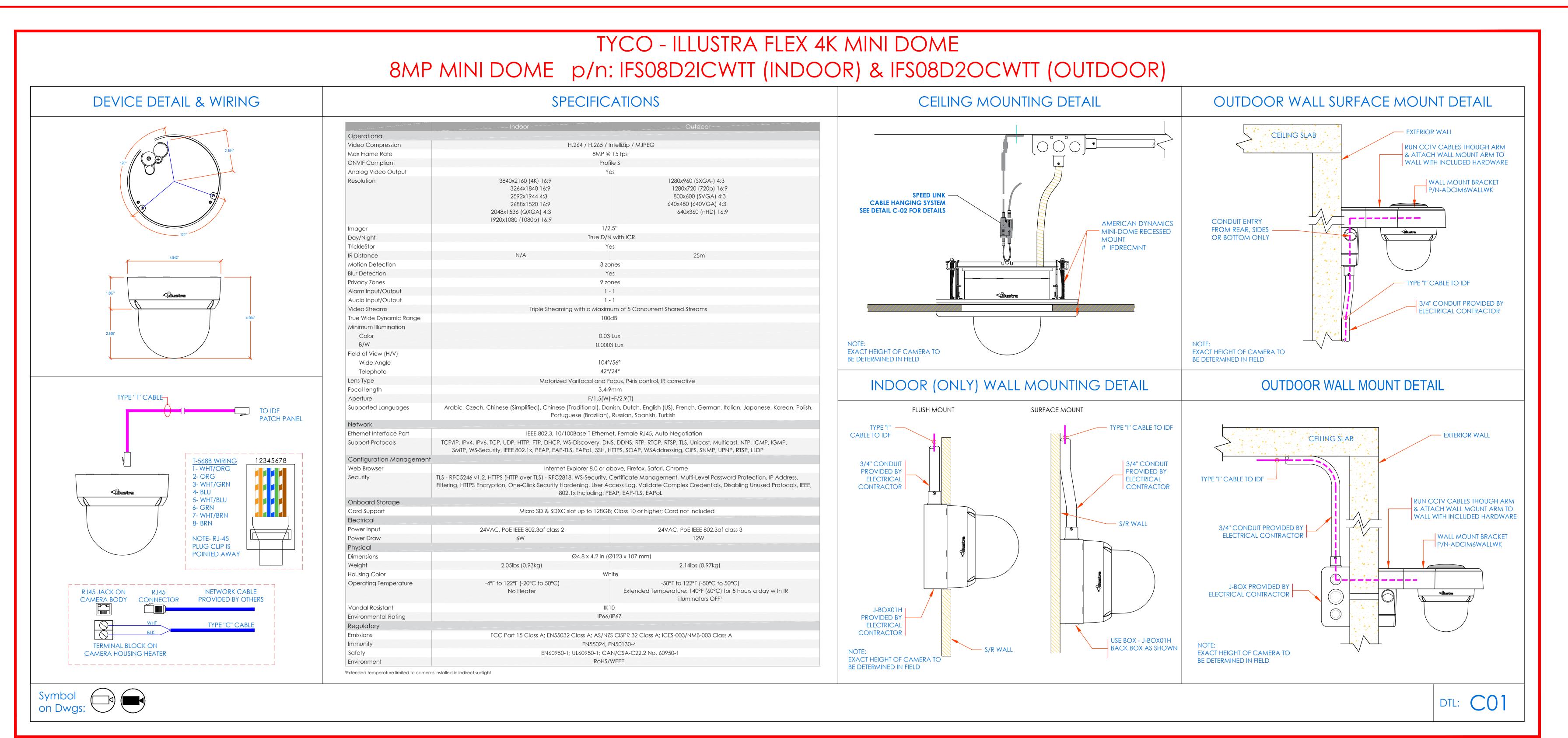
SECURITY EQUIPMENT DETAIL 4
BURG DEVICE TYPICALS

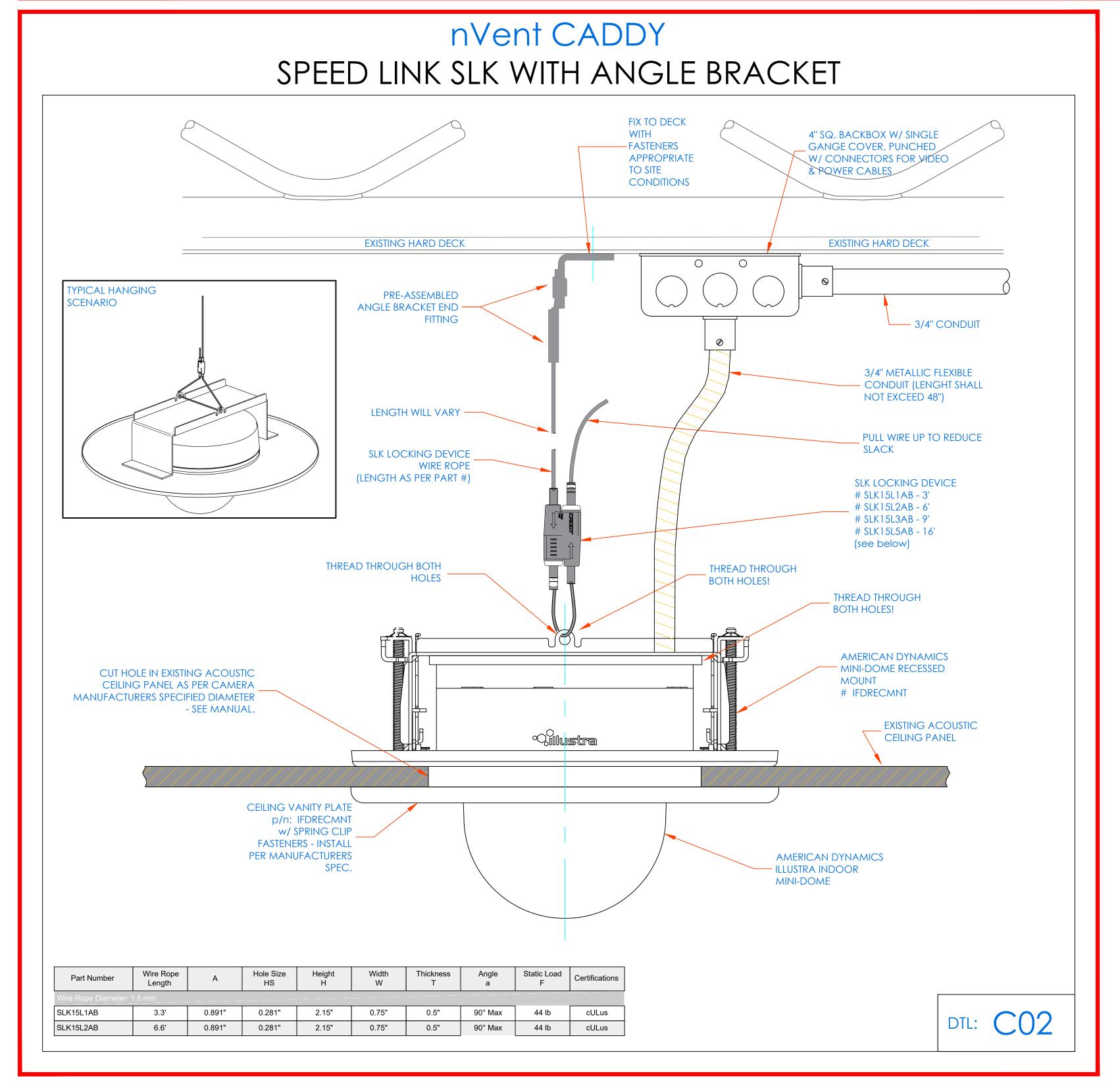
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## NOTES:

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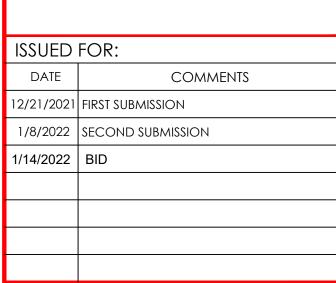
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YONKERS, NY 10710

SECURITY EQUIPMENT DETAIL 5
CCTV TYPICALS

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