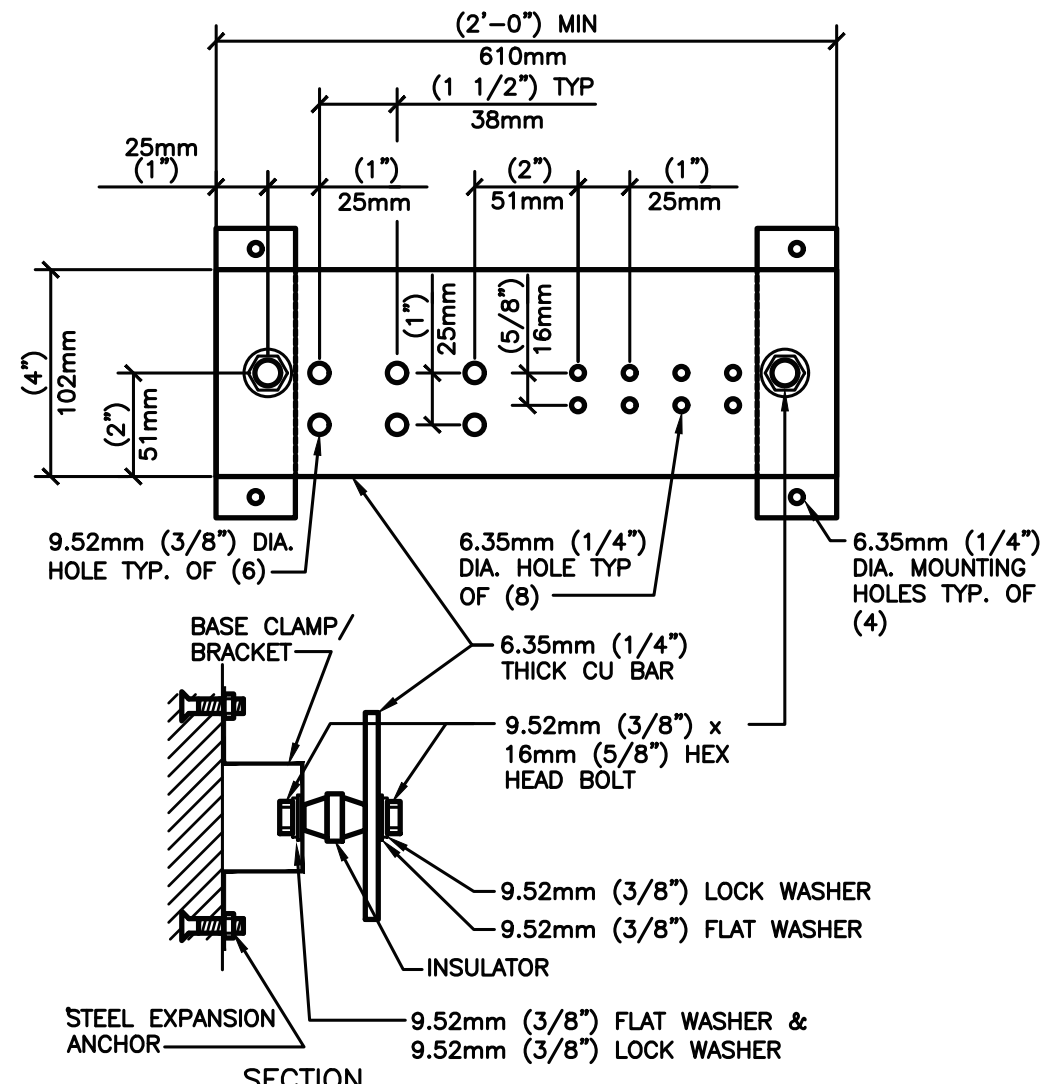
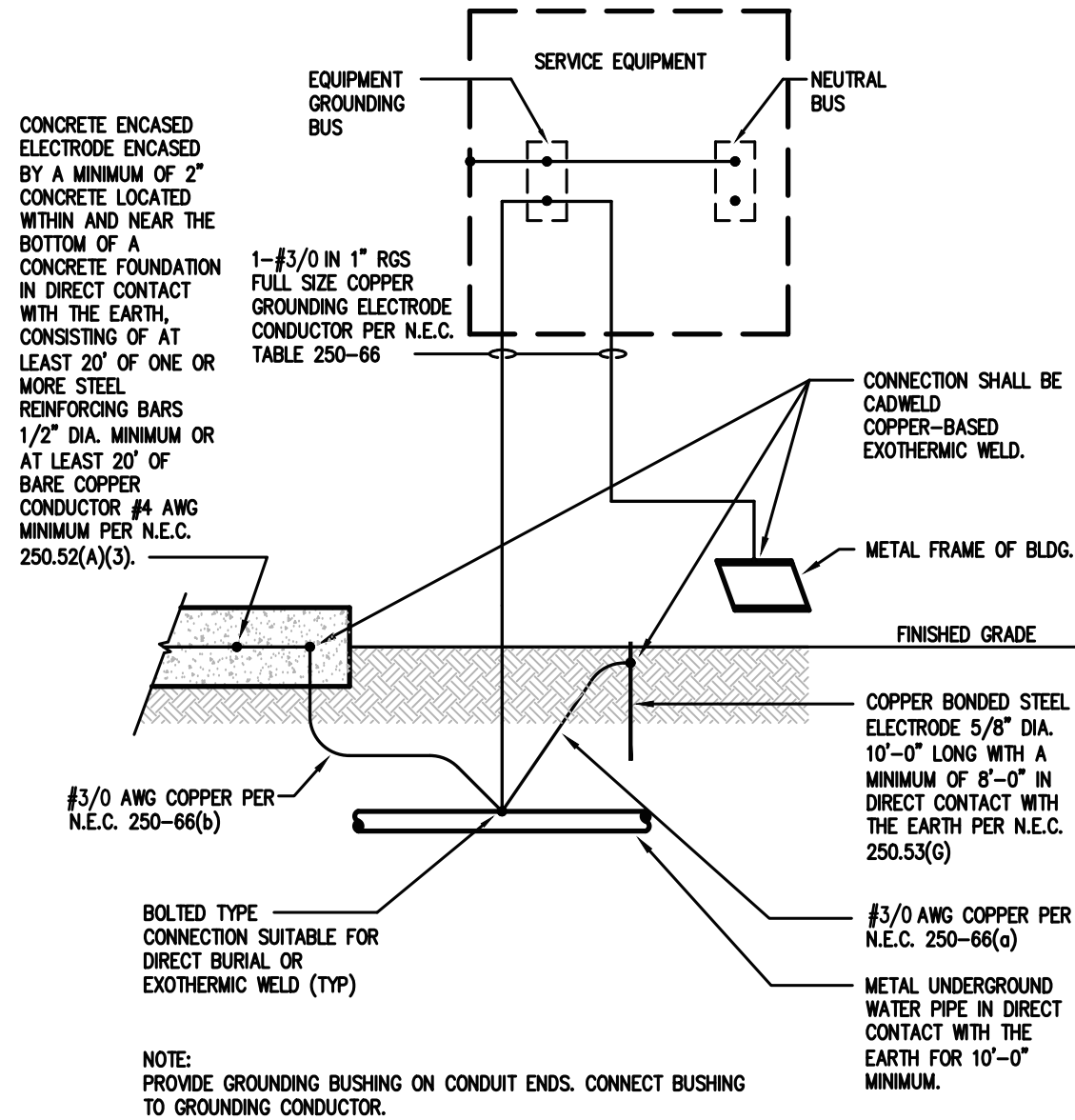
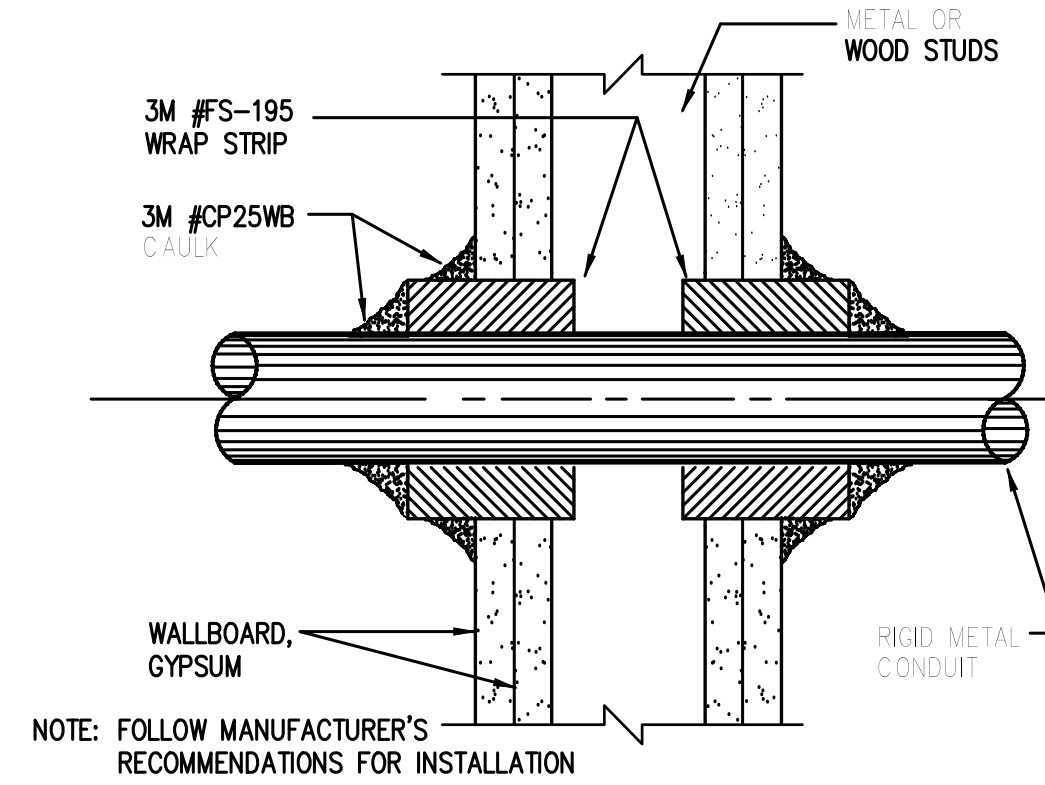




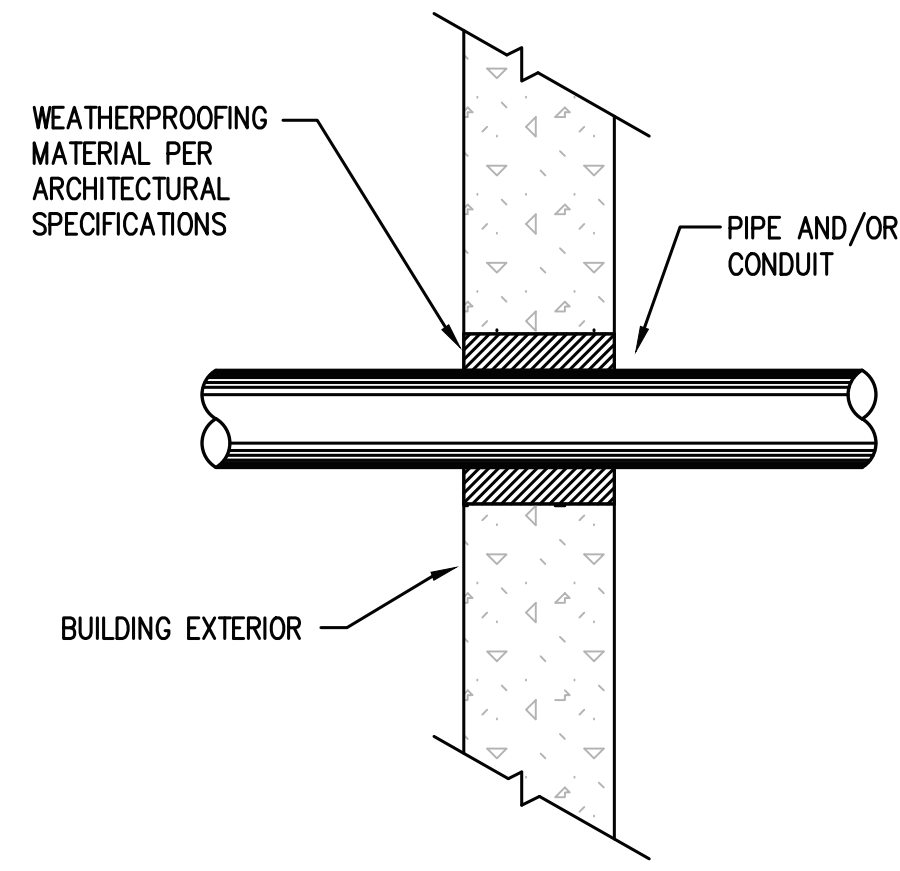
1 GROUNDING BAR DETAIL
NTS
SD260526-01



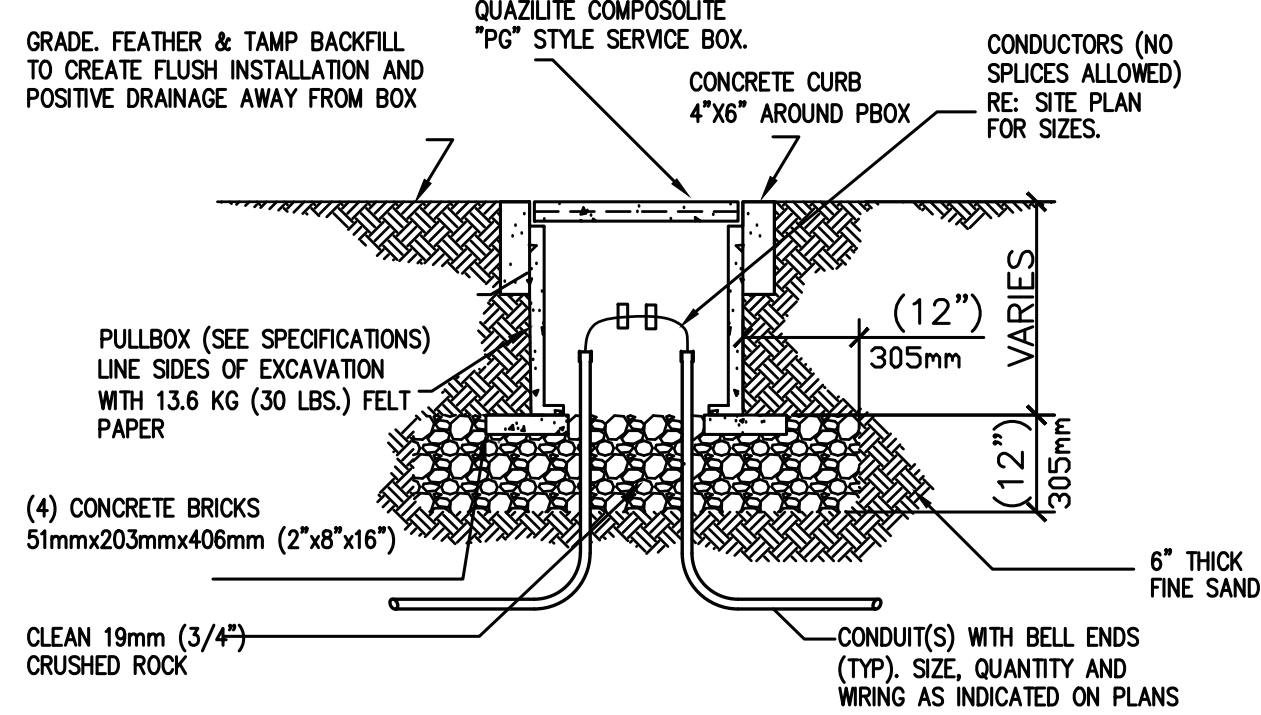
2 GROUNDING ELECTRODE SYSTEM
NTS



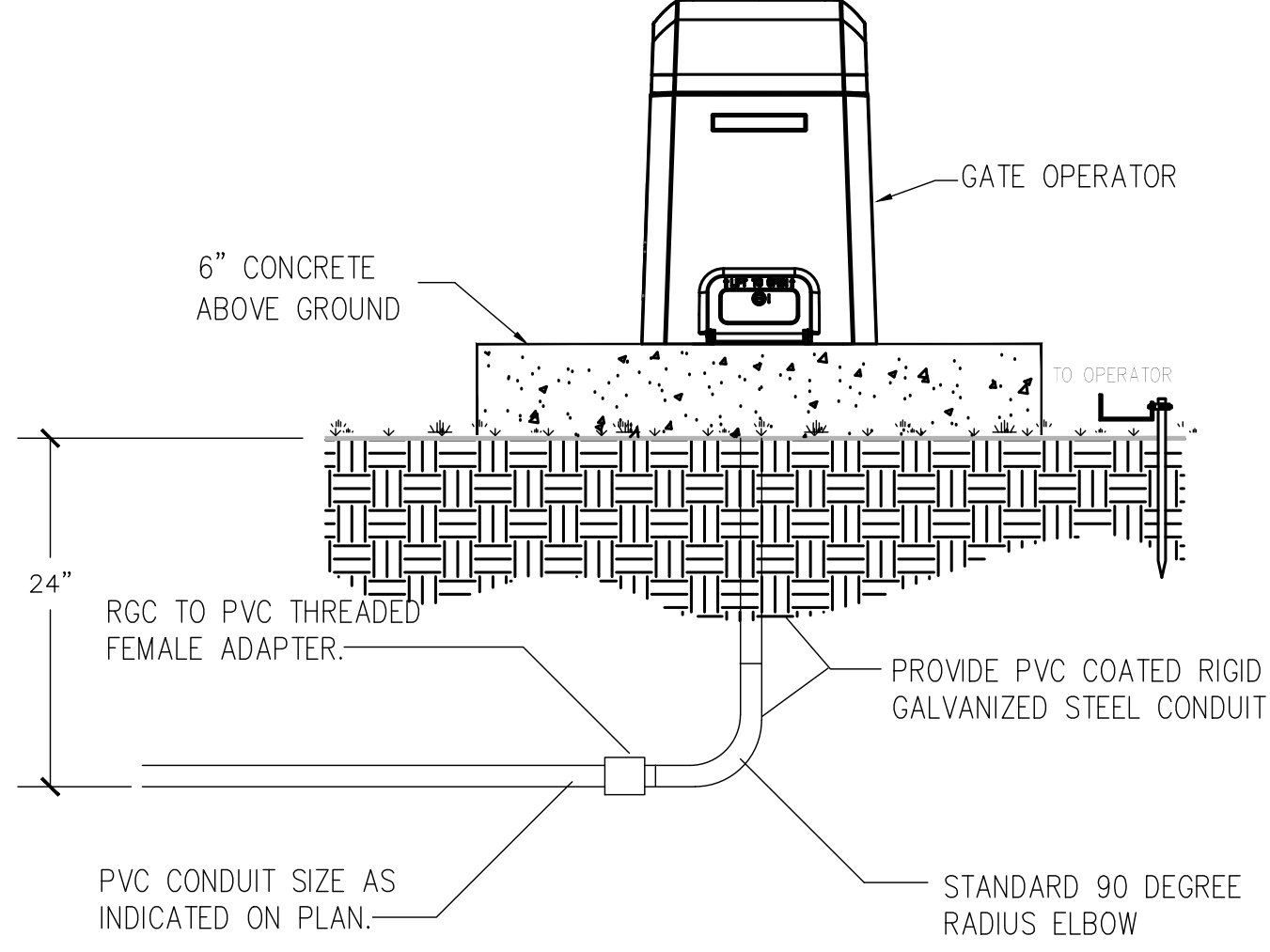
1 AND 2 HR. GYPSUM/WALLBOARD PENETRATION DETAIL
NTS



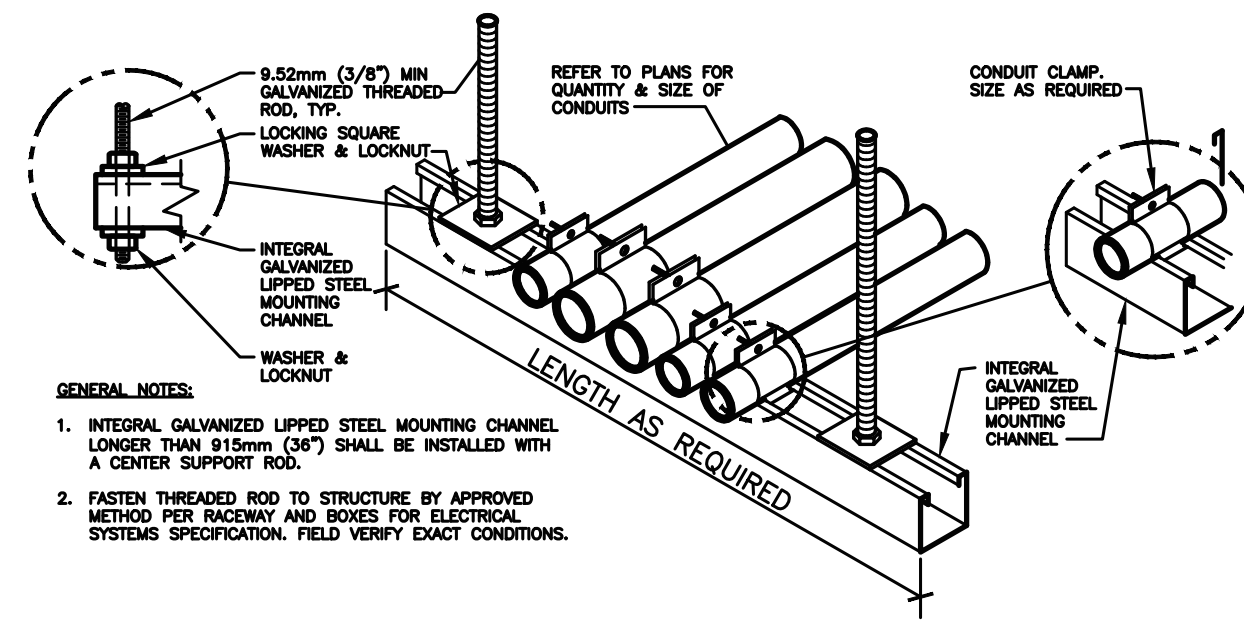
4 PIPE AND/OR CONDUIT PENETRATION
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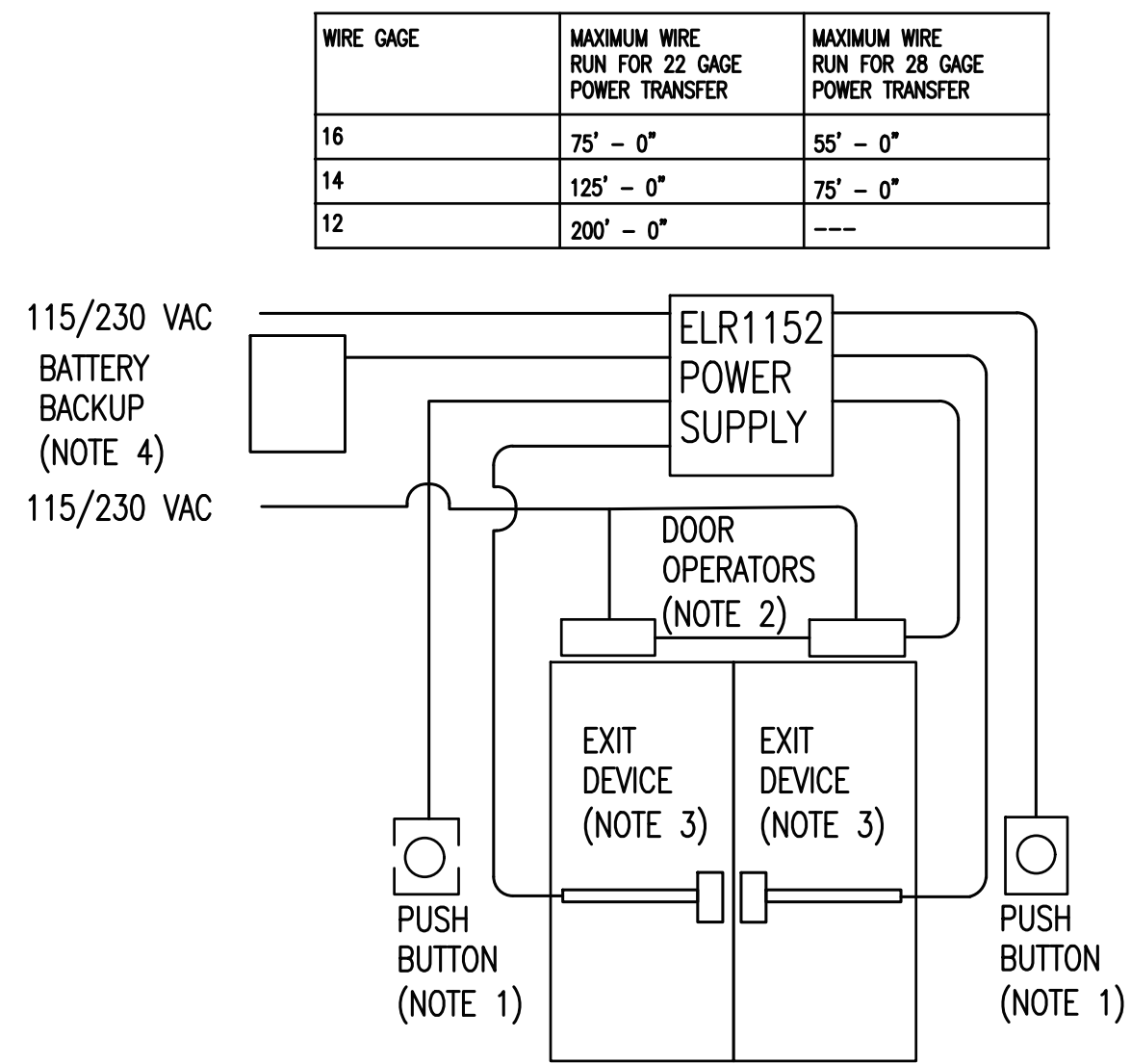
5 UNDERGROUND CONCRETE PULLBOX
NTS



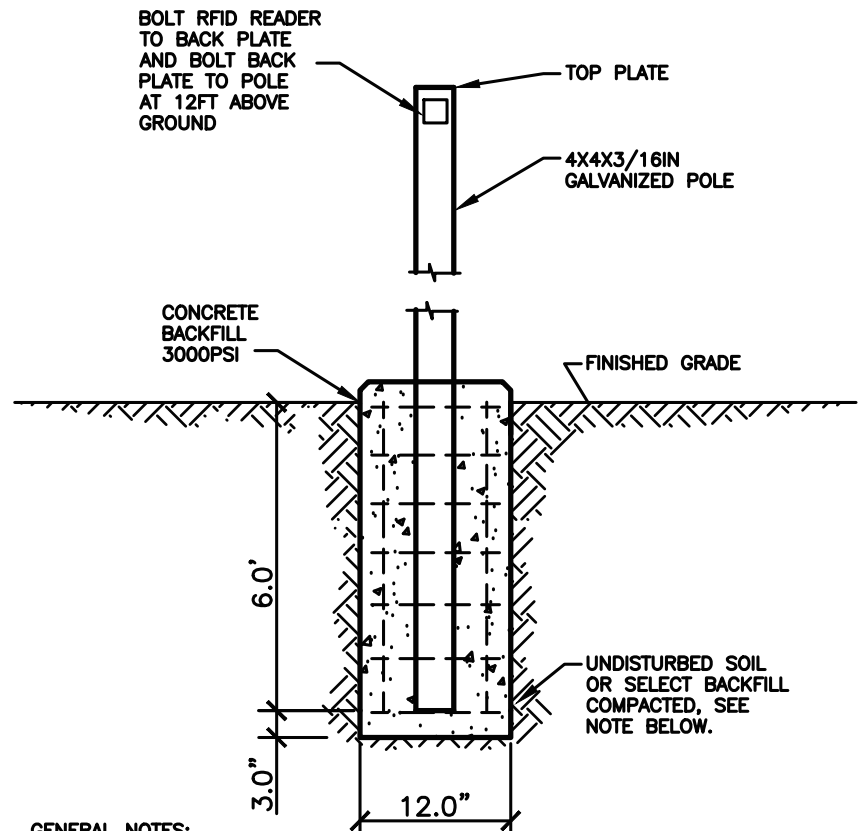
6 GATE MOTOR MOUNTING DETAIL
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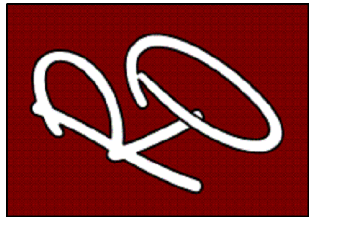
7 CONDUIT TRAPEZE MOUNTING DETAIL
NTS



8 TOUCH BAR EXIT DEVICE DETAIL
NTS



9 POLE BASE DETAIL - TURF AREAS
NTS



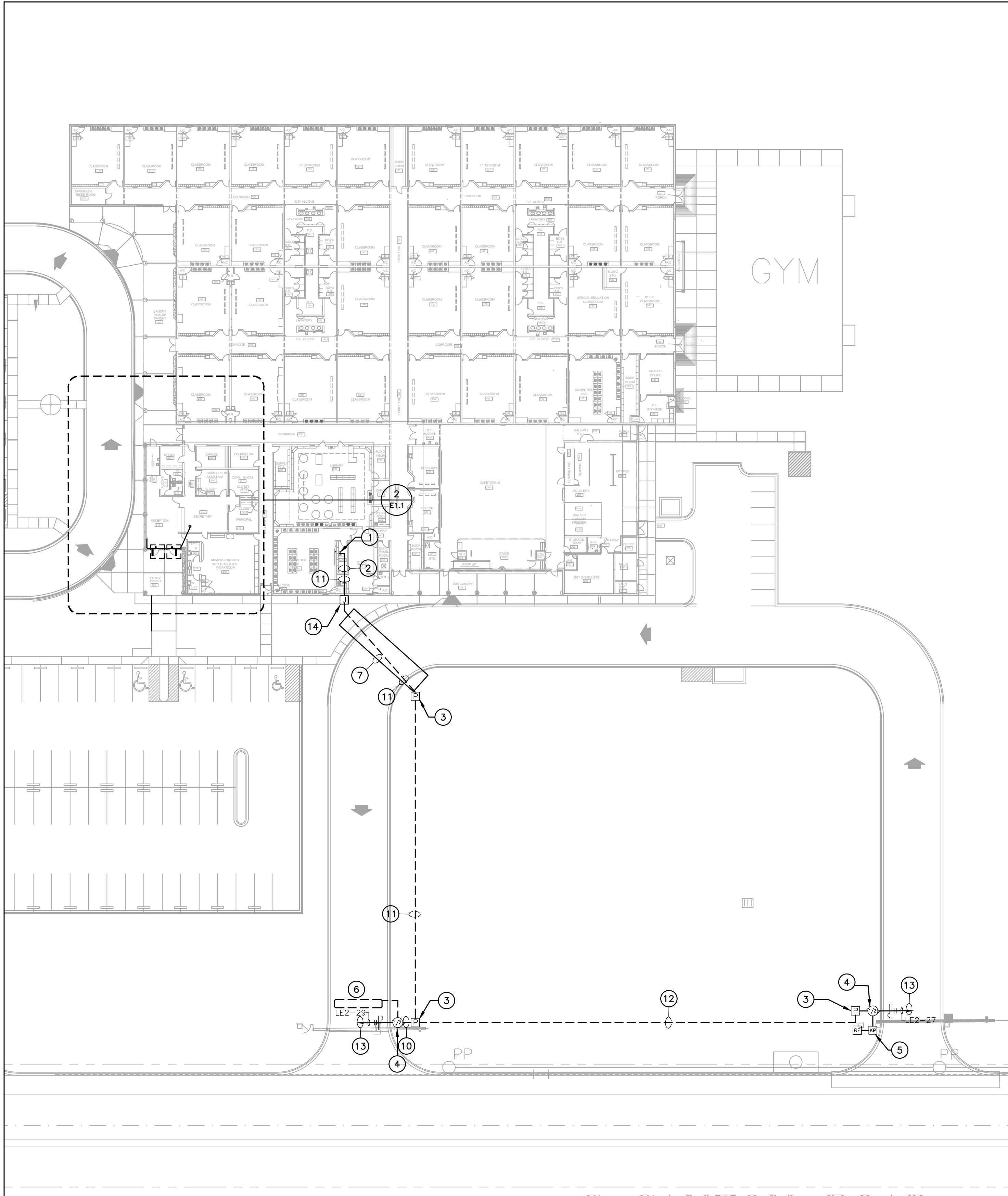
**SECURED ENTRANCES
ELECTRIC GATES**

**GROUP 1
ELEMENTARY SCHOOLS**

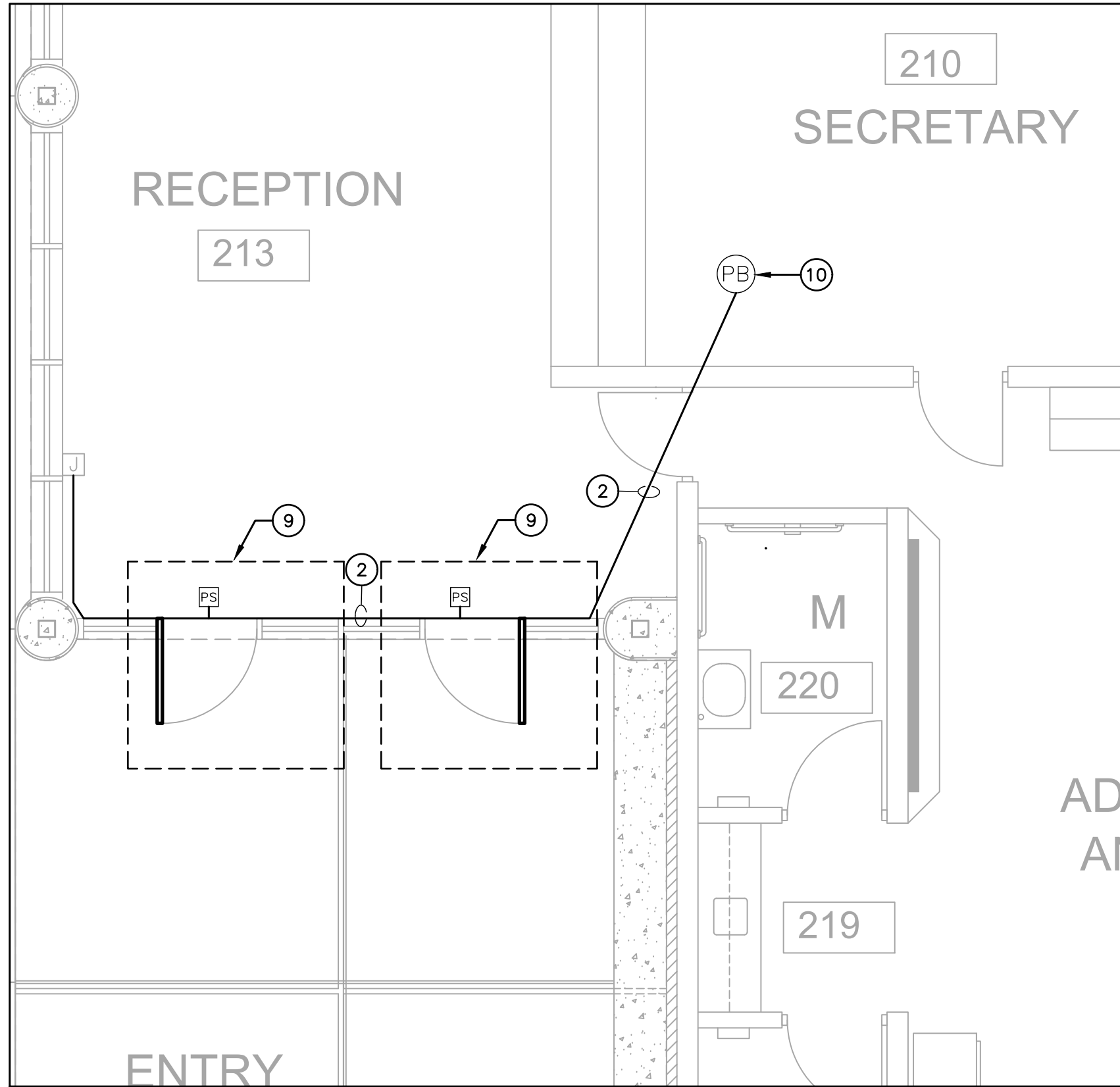
PROJECT NAME	
DESCRIPTION	
DATE	
NO.	

PROJECT NO.: 2024
DRAWN BY: L.J.H.
CHECKED BY: R.O.
SHEET TITLE:

**ELECTRICAL
DETAILS**



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

KEYED NOTES:

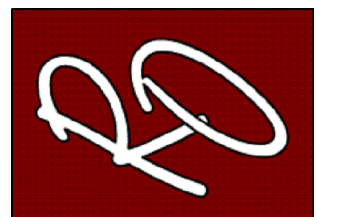
- APPROXIMATE LOCATION OF EXISTING PANEL "LE2". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC-1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/D.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
- FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
- FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
R0DE21031702A630 - PANIC EXIT DEVICE
3R0DE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RMOKR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE (1) 1" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE (1) 1" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING AND (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED SIZE BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

GENERAL NOTES:

- A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ENGINEERING, PLLC
MEP ENGINEERS & CONSTRUCTION MANAGERS
2705 E. Davis Rd., Suite A
Edinburg, Texas 78540
TEPPE Firm Registration No. 12179
www.ro-engineering.com



PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

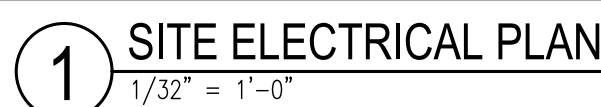
PROJECT LOCATION
BETTS ELEMENTARY

PROJECT NAME	DESCRIPTION	DATE	NO.

PROJECT NO.: 2024
DRAWN BY: L.J.H.
CHECKED BY: R.O.

SHEET TITLE:
SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T
E1.1



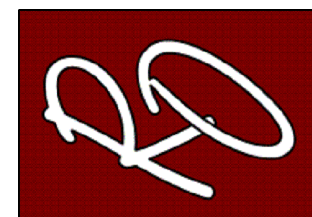
GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECETRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS

⑧ ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "AC", PROVIDE LOAD CENTER, VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION. PROVIDE NEW 30AMP 480V, 3-PHASE BREAKER INCLUDING NEW BREAKER.
2. FURNISH AND INSTALL CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR.COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
3. PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
4. FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
5. FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFMASTER KPR2000 MOUNTED ON GOODENOCK PEDESTAL PD42 OR EQUAL FOR BUS LOBBY. INTERCONNECT WITH RFID READER UMSG 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST 1 FT. ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
6. FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR TEACHER PARKING. MOUNT ONTO GOODENOCK PEDESTAL PD42 OR EQUAL.
7. FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
8. BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
9. FURNISH AND INSTALL TOUCHSCREEN EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08-10.00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
R002110317024630 – PANIC TITL DEVICE
3R002110317034630 – 3R APEX PANIC EXIT DEVICES
12E72626 – CYLINDER STANDARD BENT
RM0K822689 – RM REMOVABLE MULLION
EPT – 2 POWER TRANSFER 02188 0600 – NO CORE REV A
PS161 – 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-BASSA ABLOY – EXIT BUTTON
10. FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
11. PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
12. PROVIDE 3 RUNS OF (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
13. PROVIDE NEW PANEL "GL" LOAD MINI- POWER CENTER, 120/208V, 3-PHASE WITH 15KVA STEPDOWN RATING. PROVIDE (1) 1" CONDUIT WITH (3) #10 AWG, (1) #10 AWG CU GND, AND (1) 3/4" CONDUIT WITH PULL STRING FROM EXISTING PANEL "HK".
14. PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



SECURED ENTRANCES ELECTRIC GATES

LBJ ELEMENTARY

NO.	DATE	DESCRIPTION	PROJECT NAME
			PROJECT LOCATION

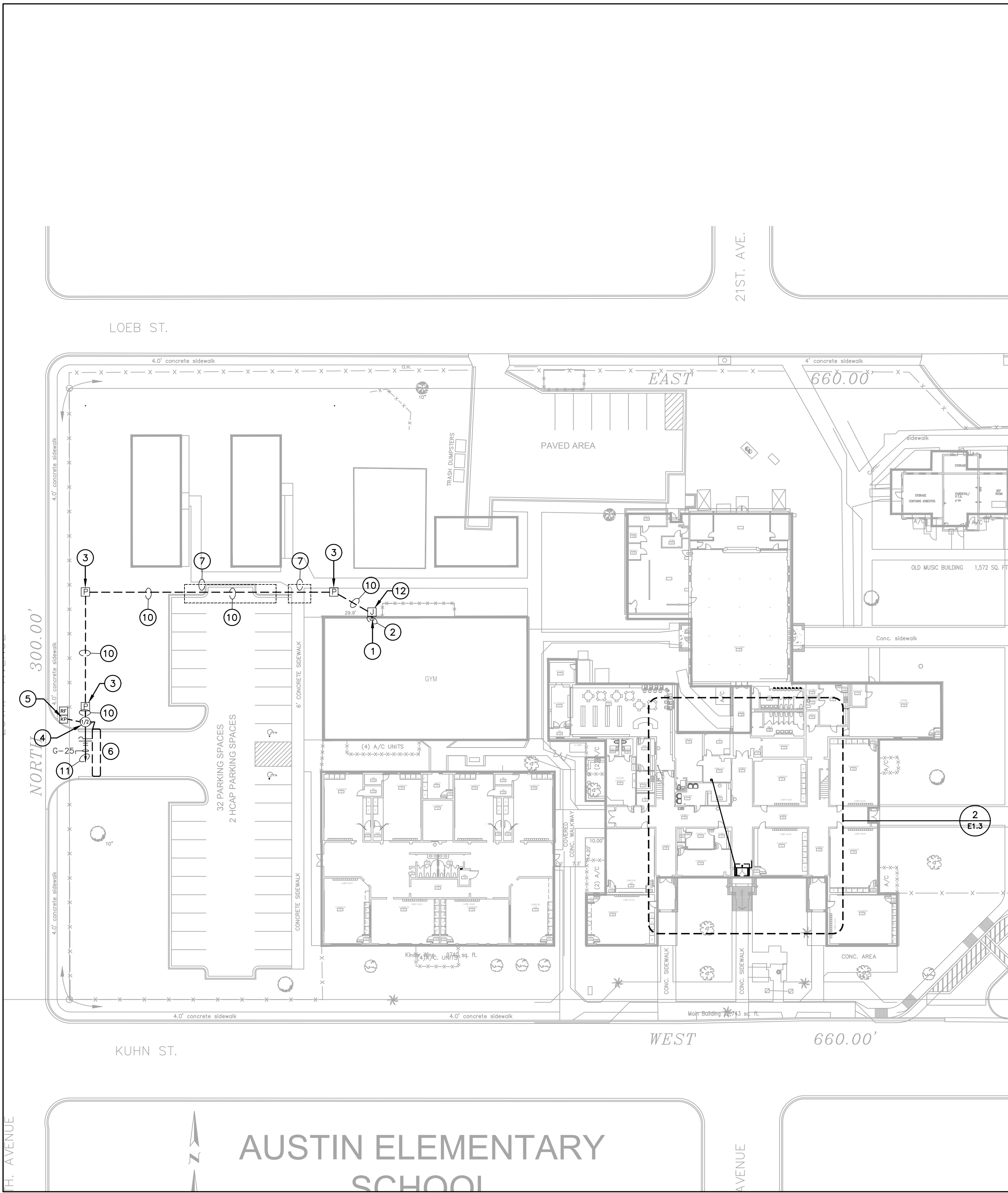
PROJECT NO.:	2024
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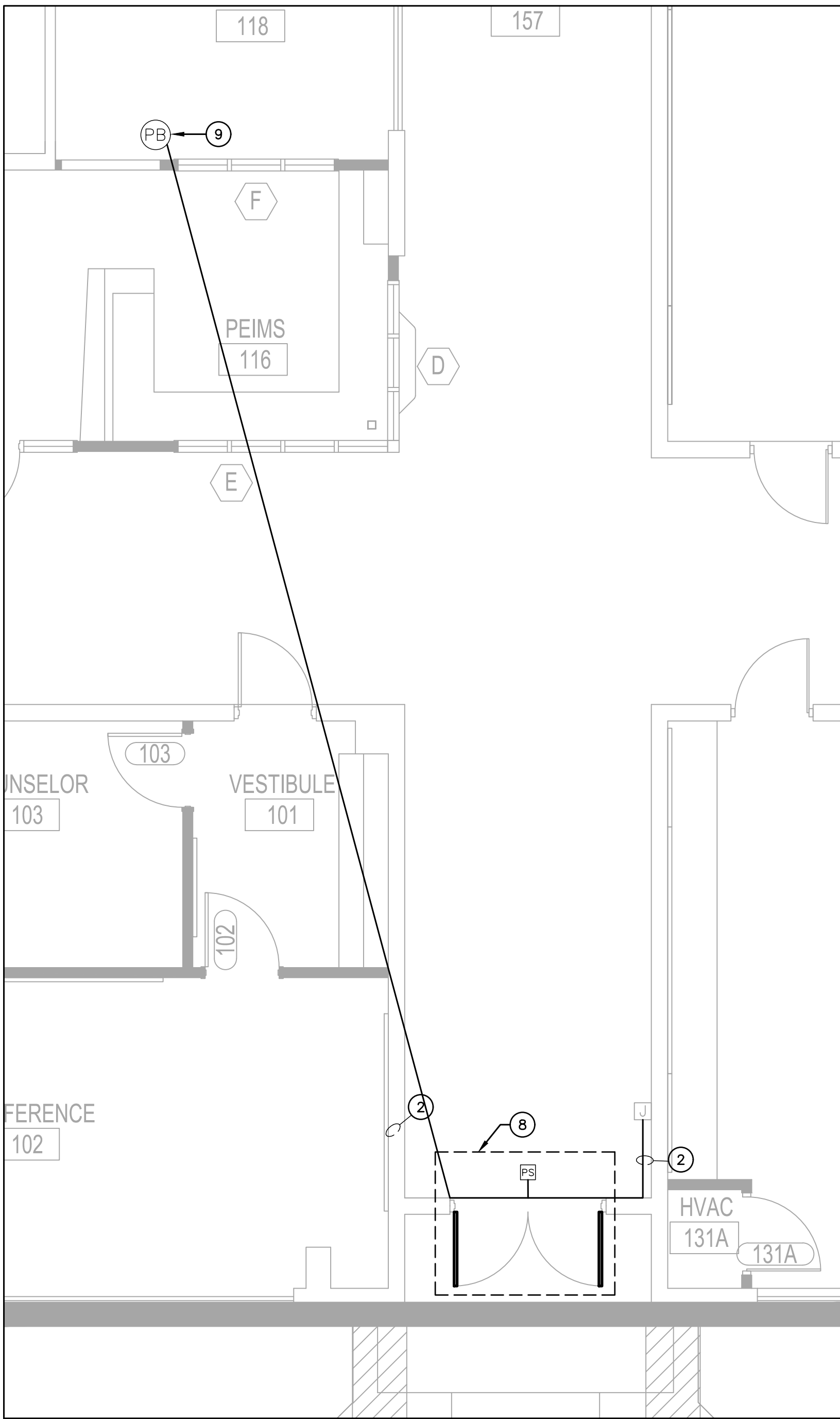
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SHEET TITLE:

SITE ELECTRICAL & ACCESS CONTROL PLAN



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECETRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "G". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN. WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR TEACHER PARKING. MOUNT ONTO GOOSENECK PEDESTAL PED42 OR EQUAL.
- FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
- FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
R0DE21031702A630 - PANIC EXIT DEVICE
JRODE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RMOKR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE (1) 1" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING.COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
AUSTIN ELEMENTARY

PROJECT NAME	DESCRIPTION	DATE	NO.

PROJECT NO.: 2024

DRAWN BY: L.J.H.

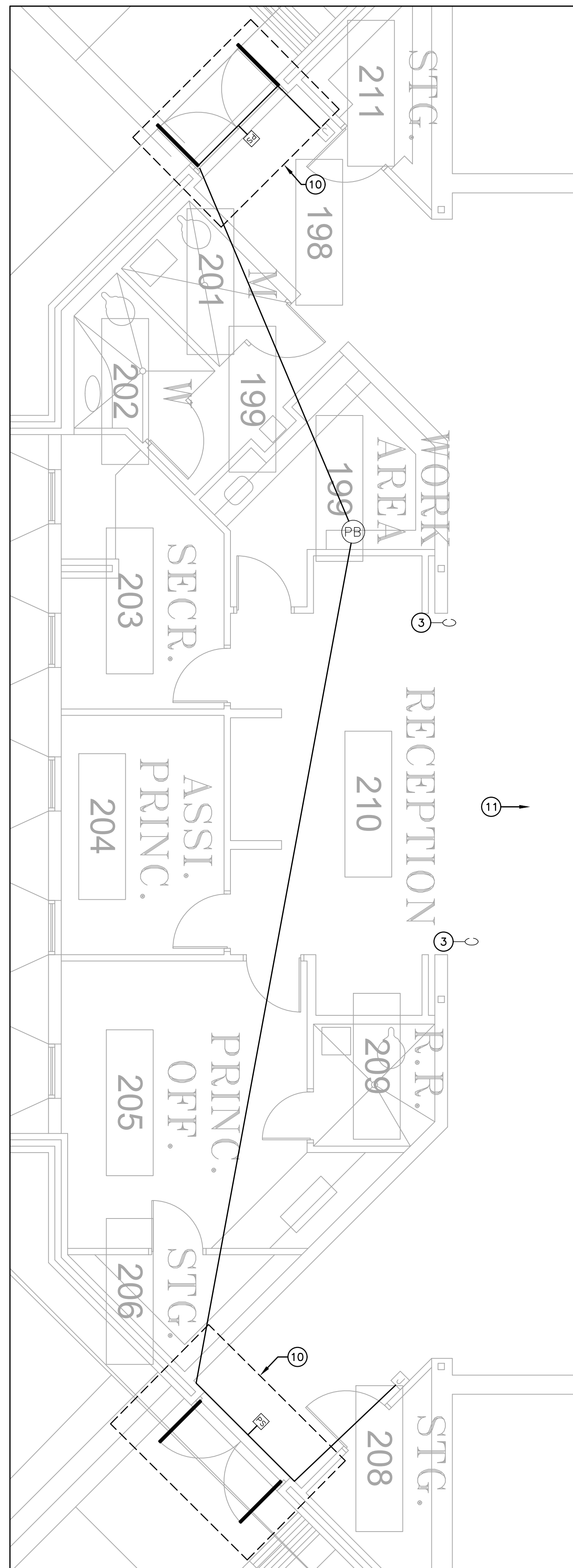
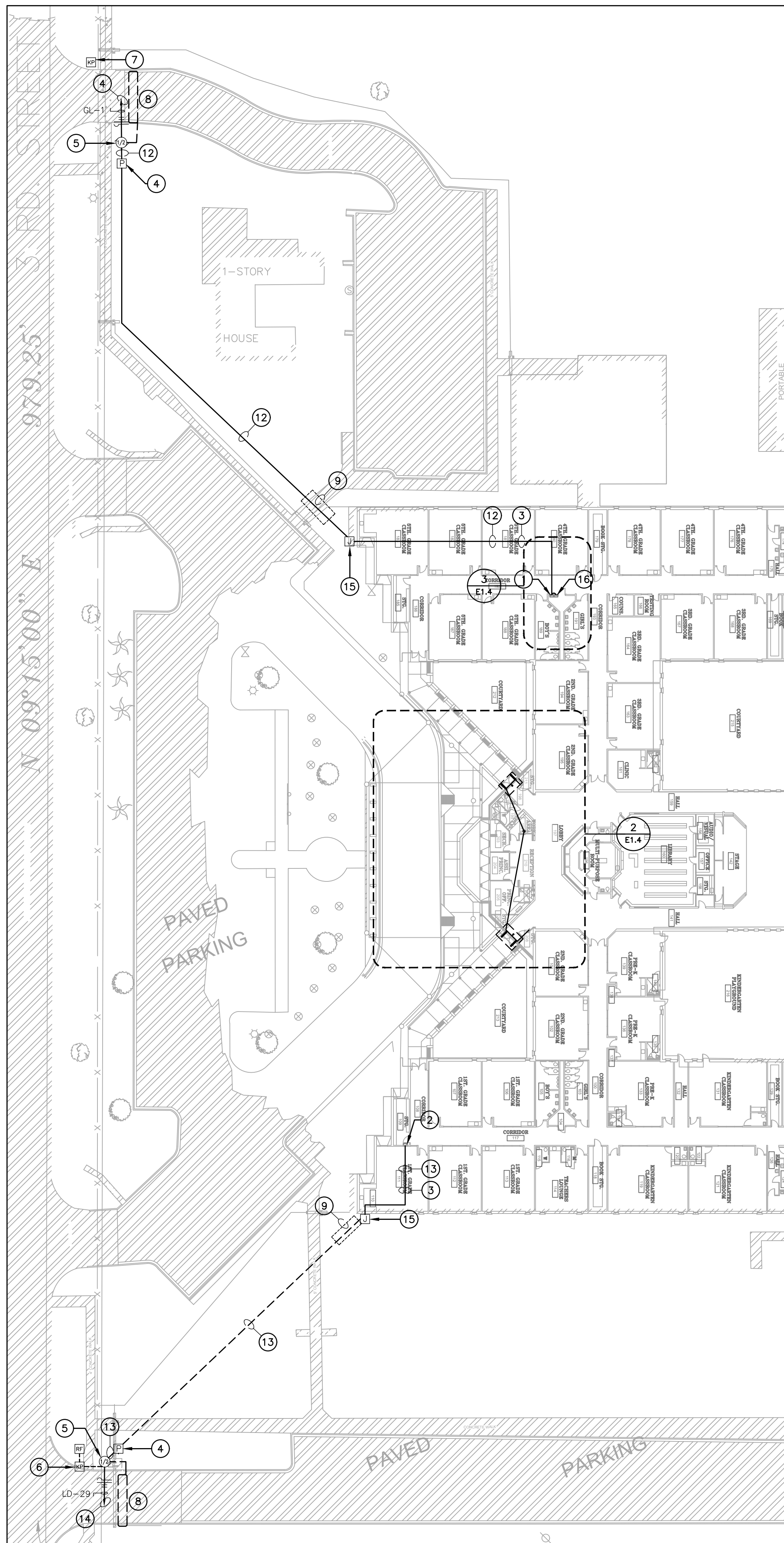
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SHEET TITLE:

SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T

E1.3



GENERAL NOTES:

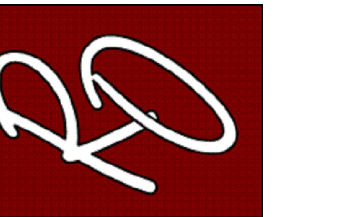
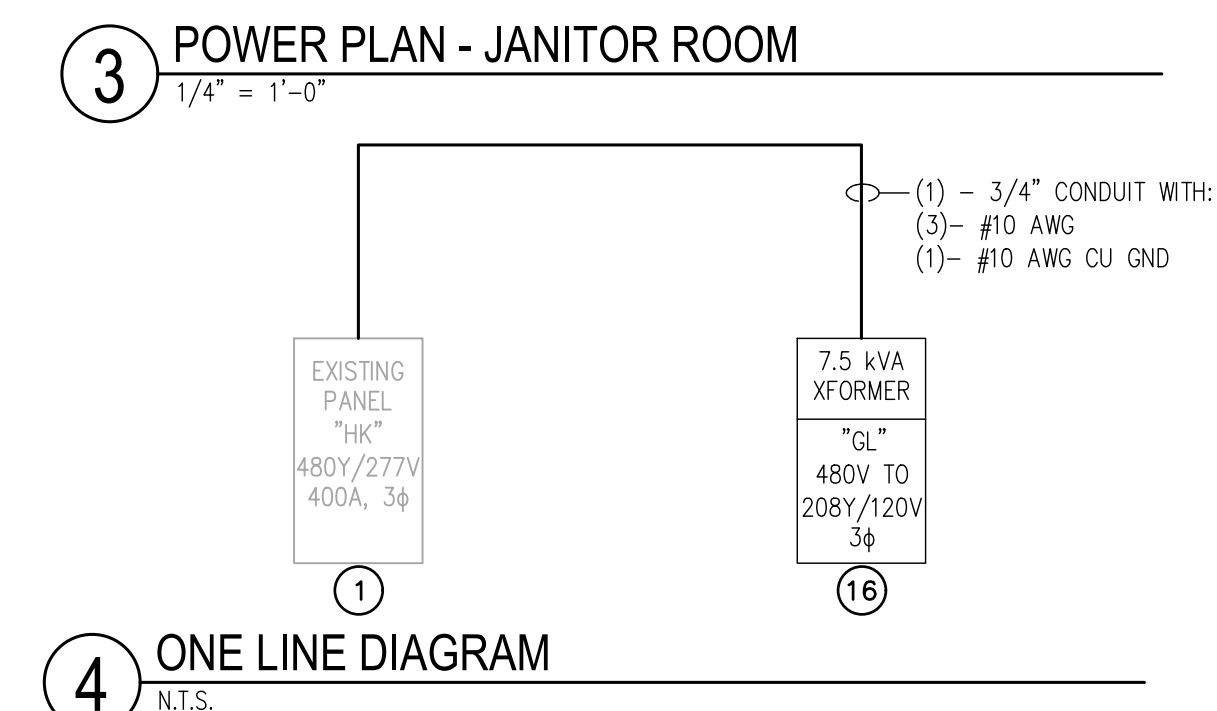
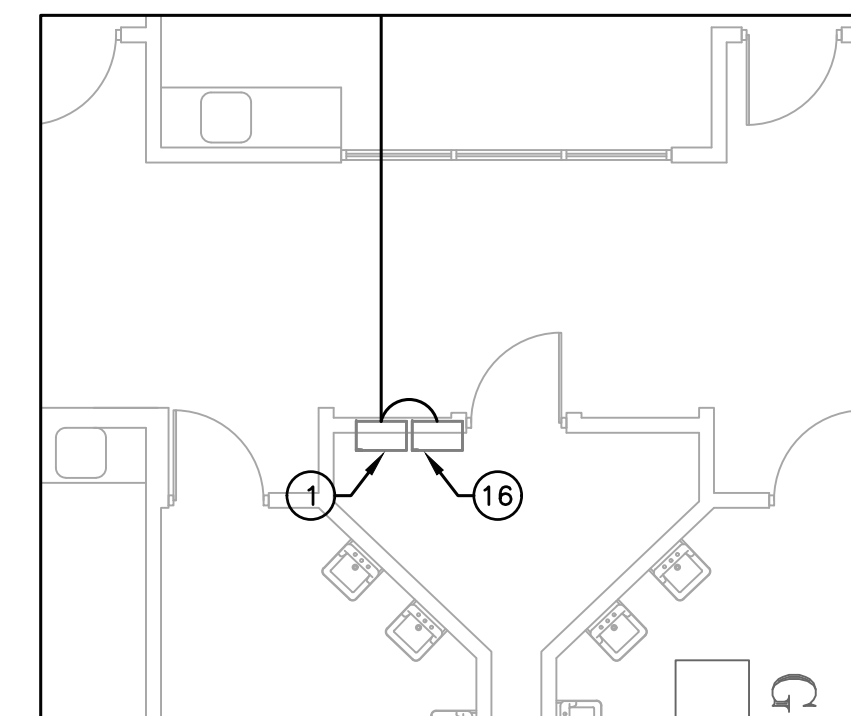
A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

[illegible]

Ⓢ ELECTRICAL KEYED NOTES:

1. APPROXIMATE LOCATION OF NEW PANEL "HK". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION. PROVIDE NEW 20AMP, 480V, 3-PHASE BREAKER INCLUDING NEW BREAKER.
2. APPROXIMATE LOCATION OF NEW PANEL "LD". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
3. ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
4. PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
5. FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
6. FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
7. FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR TEACHER PARKING. MOUNT ONTO GOOSENECK PEDESTAL PED42 OR EQUAL.
8. FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
9. BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
10. FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
R0DE21031702A630 – PANIC EXIT DEVICE
3R0DE21031703A630 – 3R APEX PANIC EXIT DEVICES
12E72626 – CYLINDER STANDARD BEST
RM0KR822689 – RM REMOVABLE MULLION
EPT – 6 POWER TRANSFER 02186 0600 – NO CORE REV A
PS161 – 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9A5SA ABLOY – EXIT BUTTON
11. FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACT FOR RELEASED UPON ALARM.
12. PROVIDE (1) 1" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
13. PROVIDE (1) 1" CONDUIT WITH (2) #8 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
14. PROVIDE NEW 20AMP, 120V, 1-PHASE BREAKER IN NEW GL-PANEL. REFER TO PANEL SCHEDULE.
15. PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.
16. PROVIDE NEW PANEL "GL" LOAD MAIN – POWER CENTER, 120/208V, 3-PHASE WITH 15KVA STEPDOWN RATING. PROVIDE (1) 1" CONDUIT WITH (3) #10 AWG, (1) #10 AWG CU GND, AND (1) 3/4" CONDUIT WITH PULL STRING FROM EXISTING PANEL "HK".

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



SECURED ENTRANCES
ELECTRIC GATES

LOCATION
SAN CARLOS ELEMENTARY

[illegible]

PROJECT NO.: 2024

DRAWN BY: L.J.H.

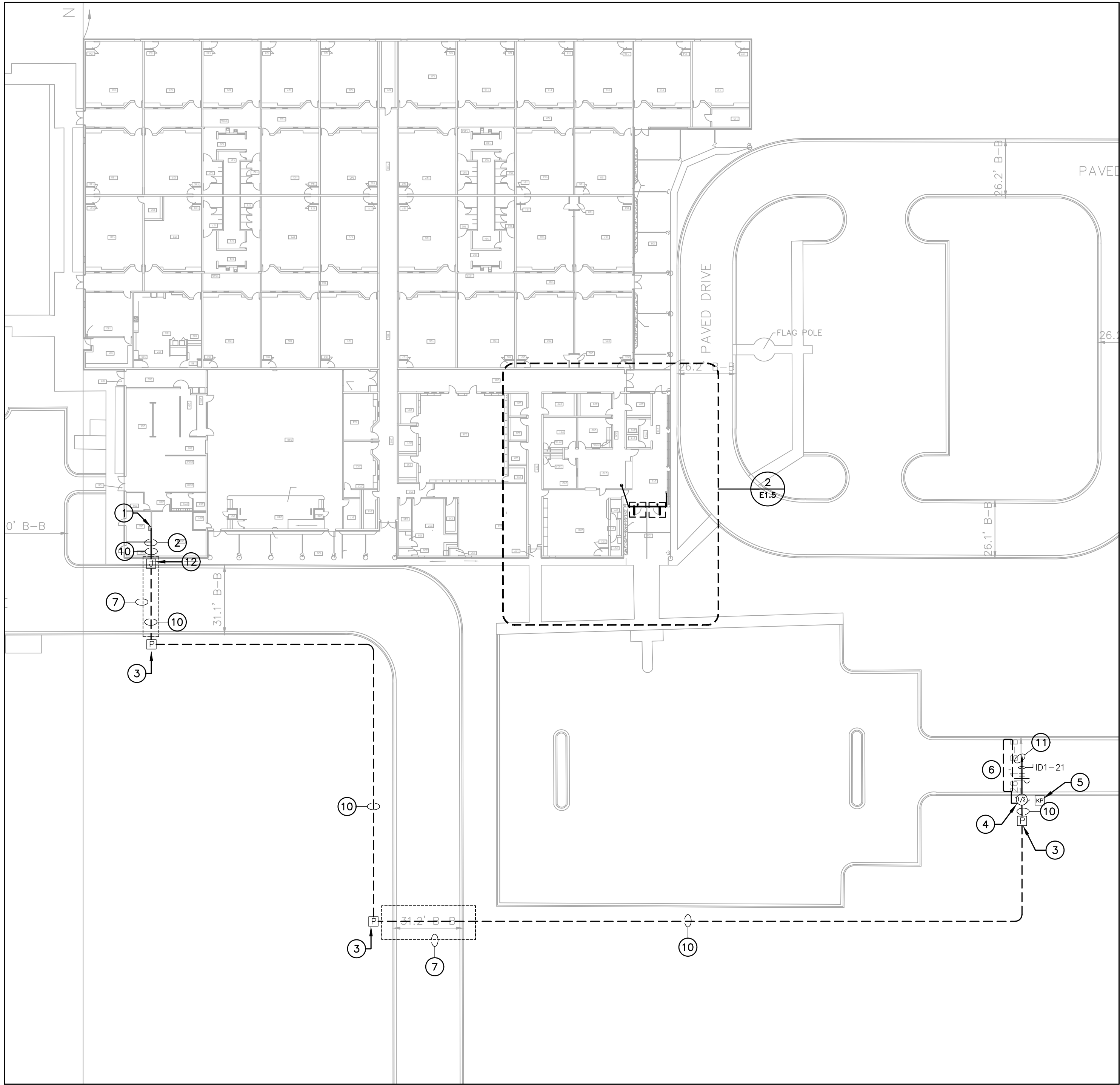
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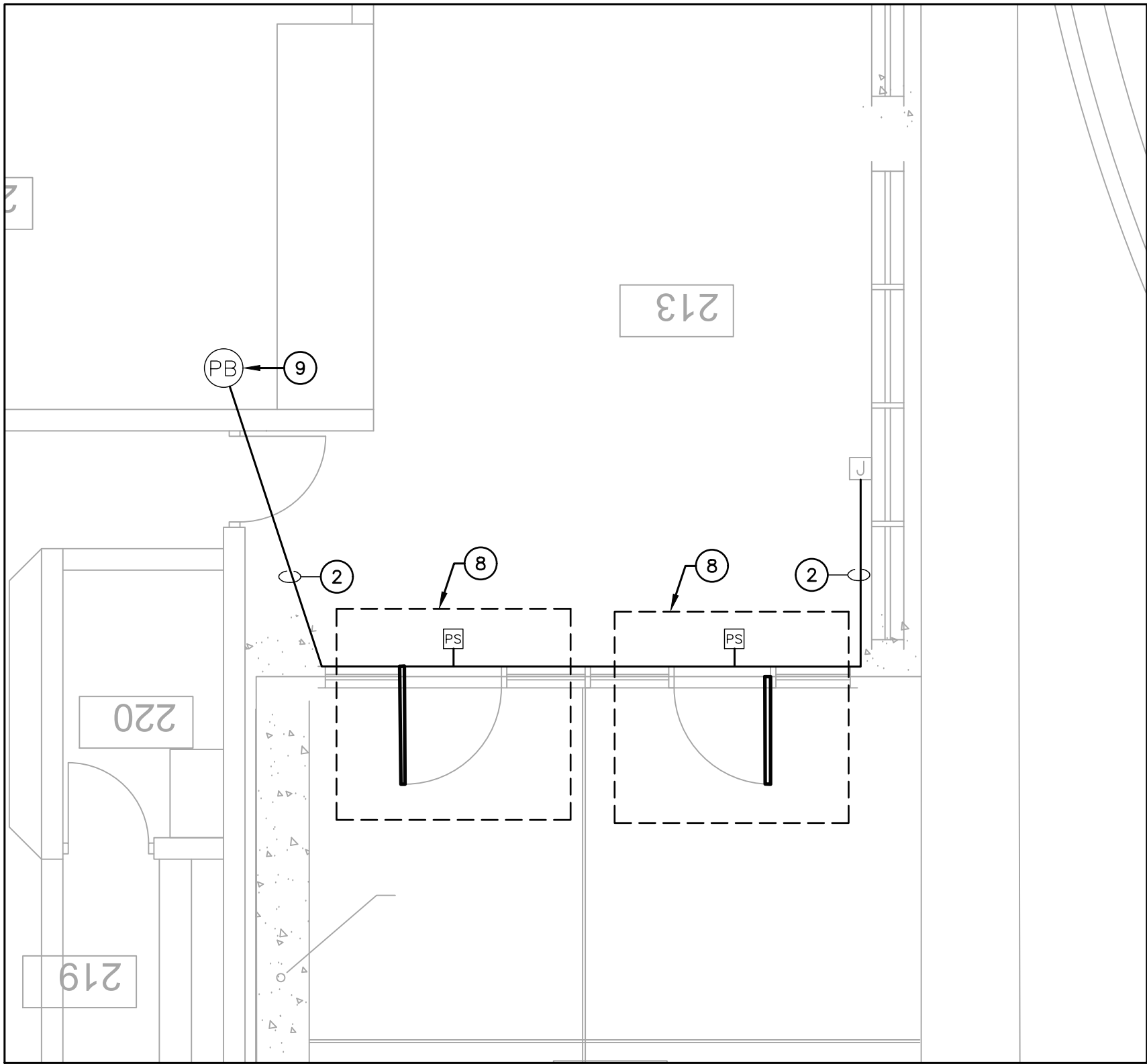
TE ELECTRICAL & ACCESS CONTROL PLAN

S H E E T

E1.4



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

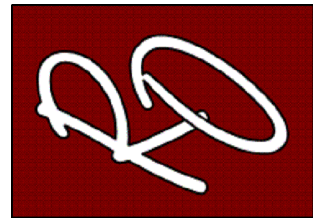
GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ELECTRICAL KEYED NOTES:

1. APPROXIMATE LOCATION OF EXISTING PANEL "ID1".
2. ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR.
3. PROVIDE PULLBOX. REFER TO DETAIL 5/E0.1.
4. FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
5. FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR TEACHER PARKING. MOUNT ONTO GOOSENECK PEDESTAL PED42 OR EQUAL.
6. FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
7. BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
8. FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
RODE21031702A630 - PANIC EXIT DEVICE
3R0DE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RM0KR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
9. FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
10. PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
11. PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
12. PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
KENNEDY ELEMENTARY

NO.	DATE	DESCRIPTION

PROJECT NO.: 2024

DRAWN BY: L.J.H.

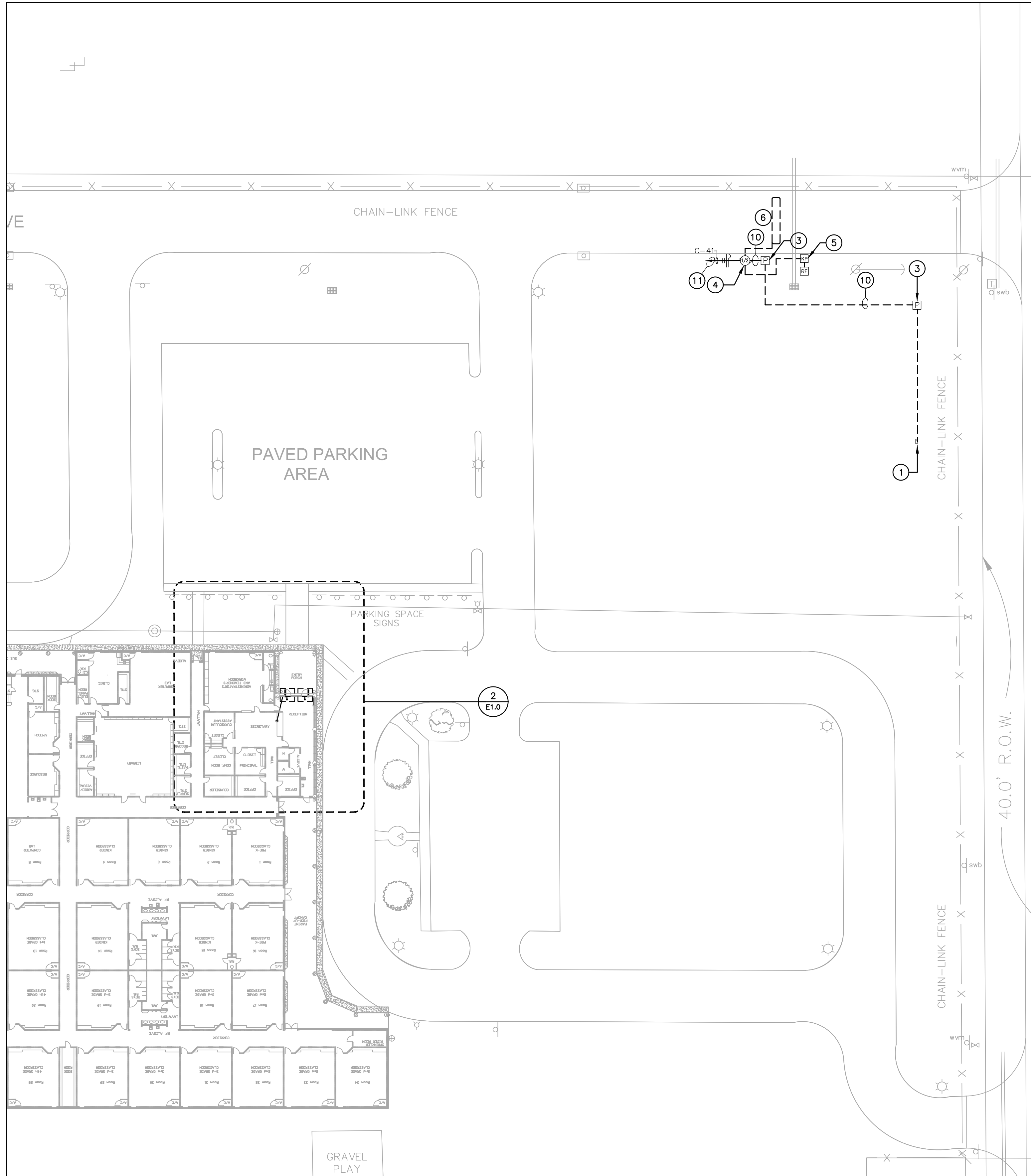
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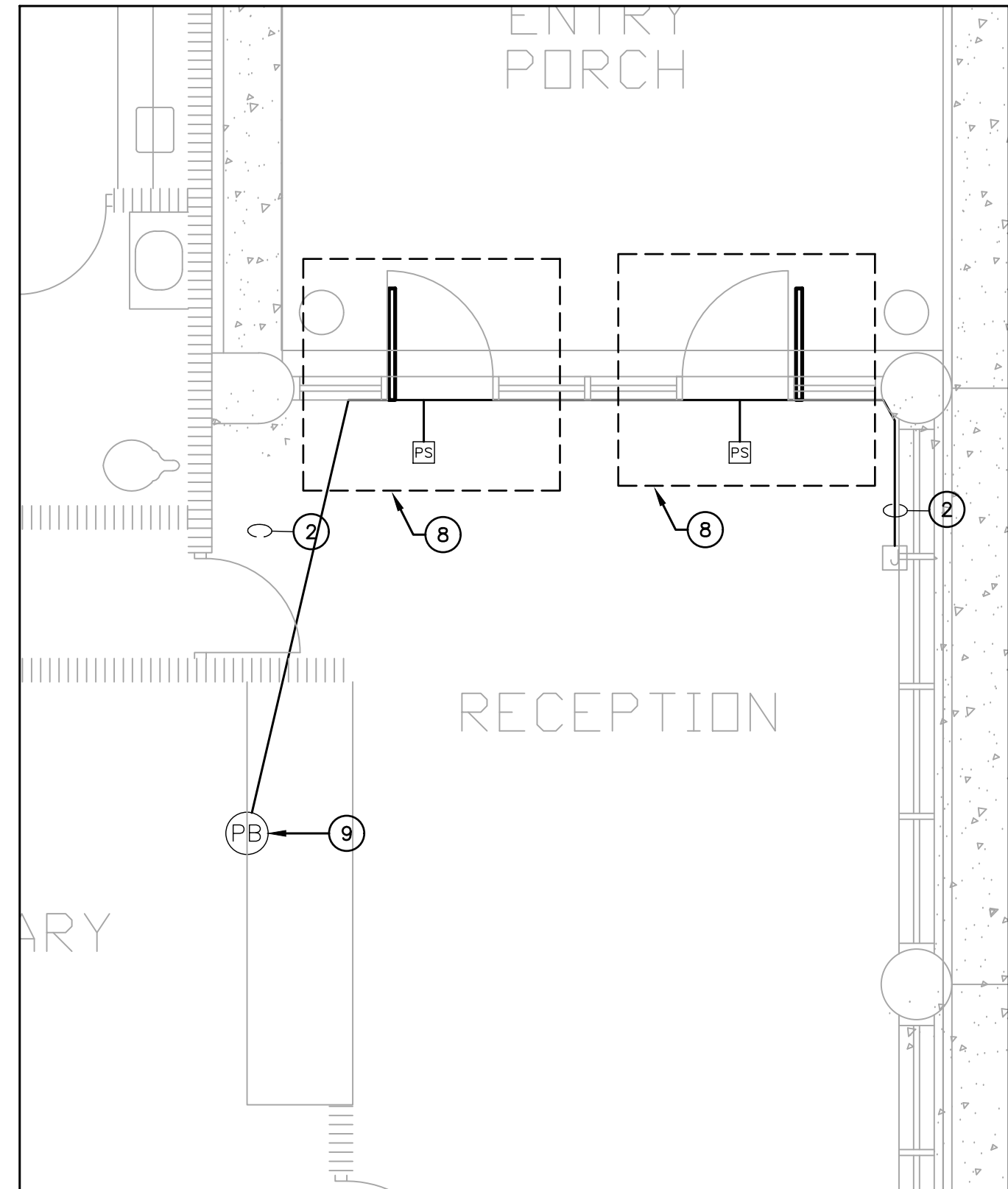
SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T

E1.5



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

GENERAL NOTES:

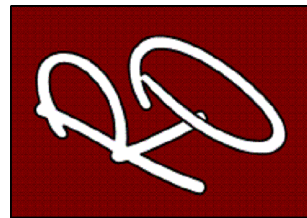
A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "LAS2". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
- FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
- FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
RODE21031702A630 - PANIC EXIT DEVICE
3R0DE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72628 - CYLINDER STANDARD BEST
RM0K6822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE (1) 1" CONDUIT WITH (2) #10 AWG, (1) #12 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.

ENGINEERING, PLLC
MEP ENGINEERS & CONSTRUCTION MANAGERS
2705 E. Davis Rd., Suite A
Edinburg, Texas 78540
TBP# Firm Registration No. 12179
www.ro-engineering.com



PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
CANO-GONZALEZ ELEMENTARY

NO.	DATE	DESCRIPTION

PROJECT NO.: 2024

DRAWN BY: L.J.H.

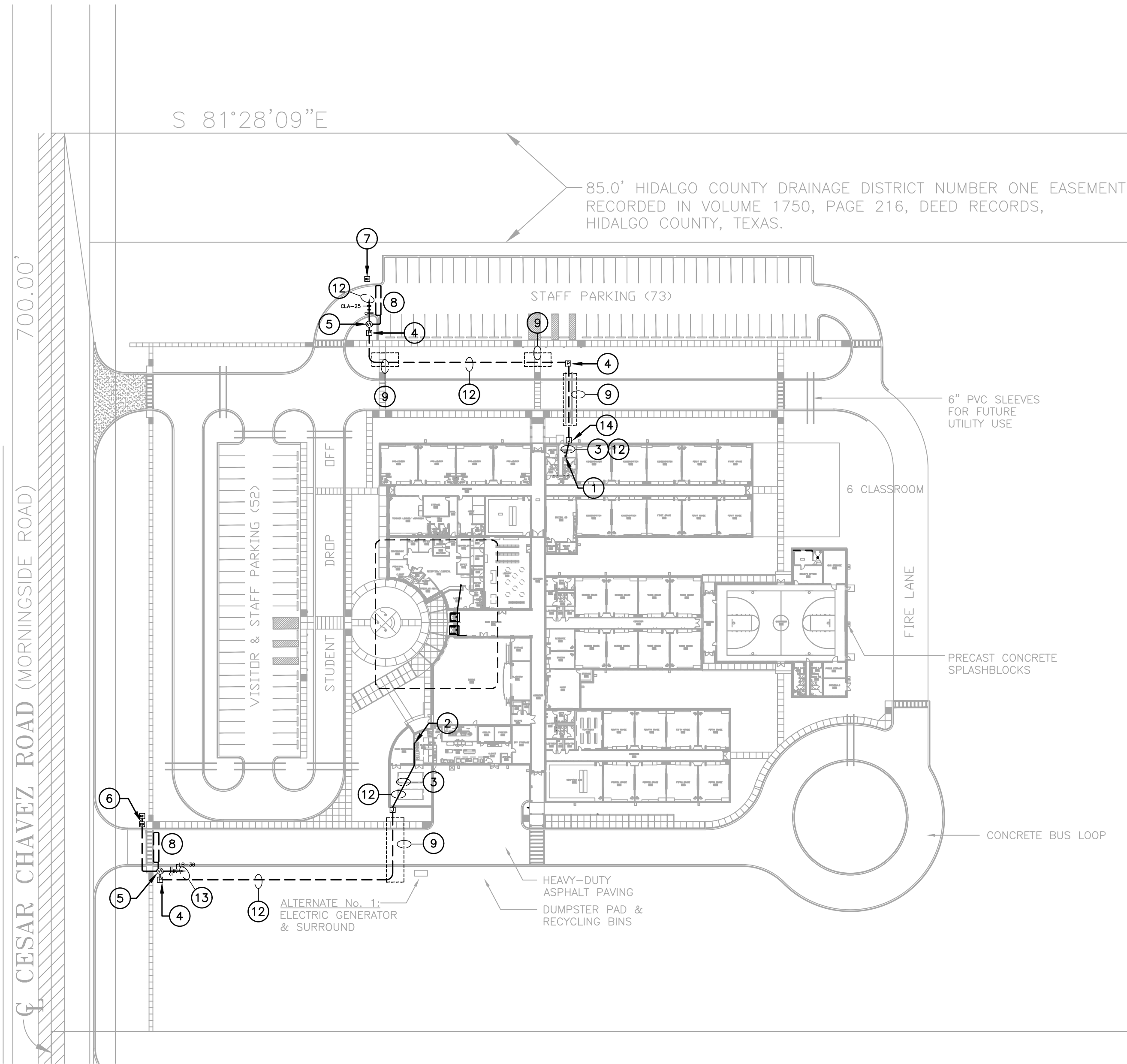
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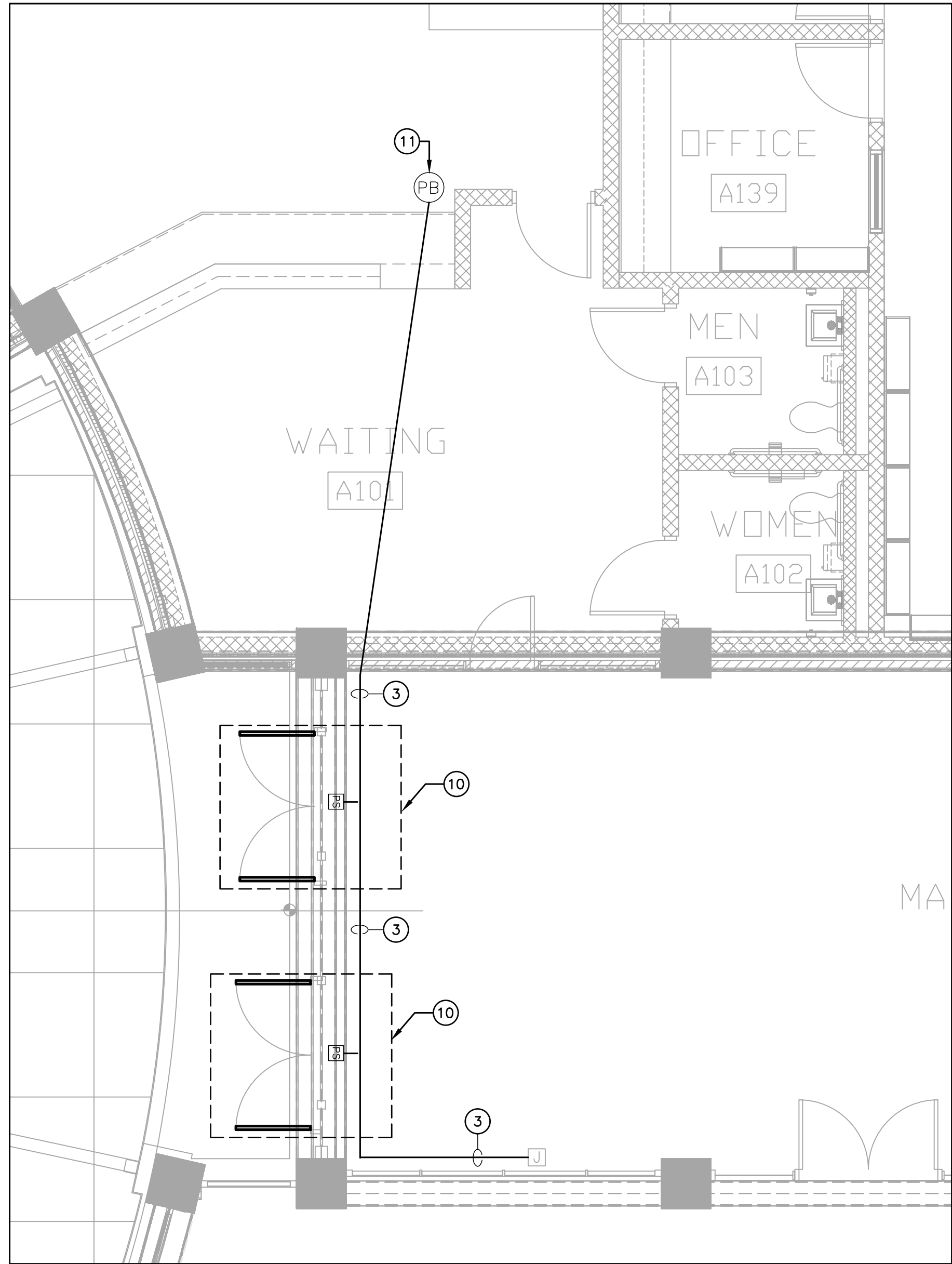
SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T

E1.6



1 SITE ELECTRICAL PLAN
1/64" = 1'-0"



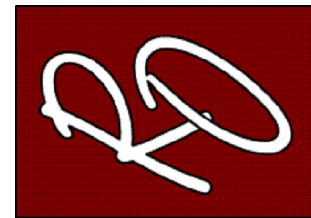
2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

E ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "CLA". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
 - APPROXIMATE LOCATION OF EXISTING PANEL "LB". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
 - ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
 - PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
 - FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL, MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
 - FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL. FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/D.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
 - FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR TEACHER PARKING. MOUNT ONTO GOOSENECK PEDESTAL PED42 OR EQUAL.
 - FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
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PROVIDE HARDWARE EQUAL TO:
R0DE21031702A630 - PANIC EXIT DEVICE
3R0DE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RMOKR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
 - FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
 - PROVIDE (1) 1" CONDUIT WITH (2) #8 AWG, (1) #6 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
 - PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
 - PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.
- NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



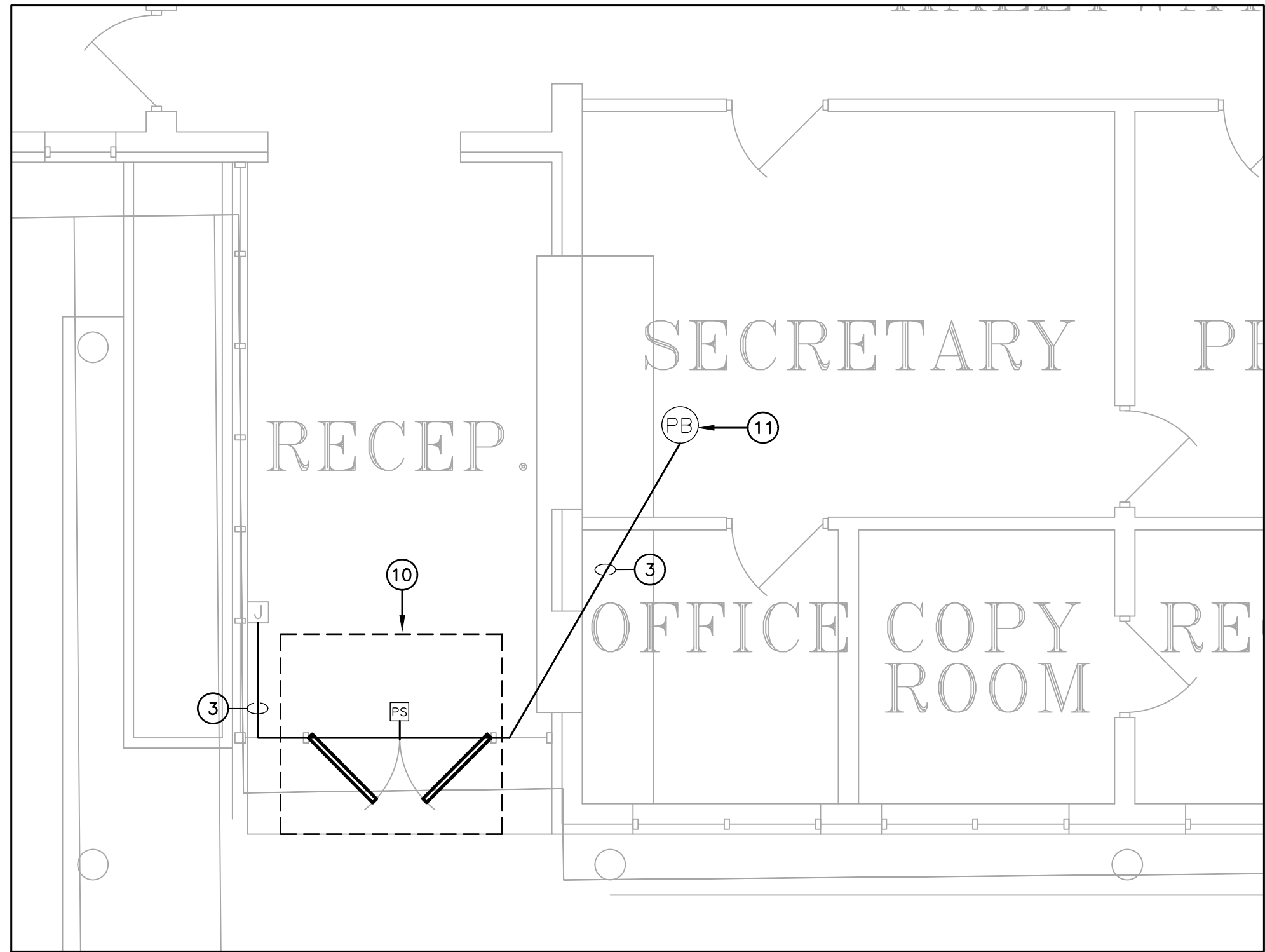
PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
ESPARZA ELEMENTARY

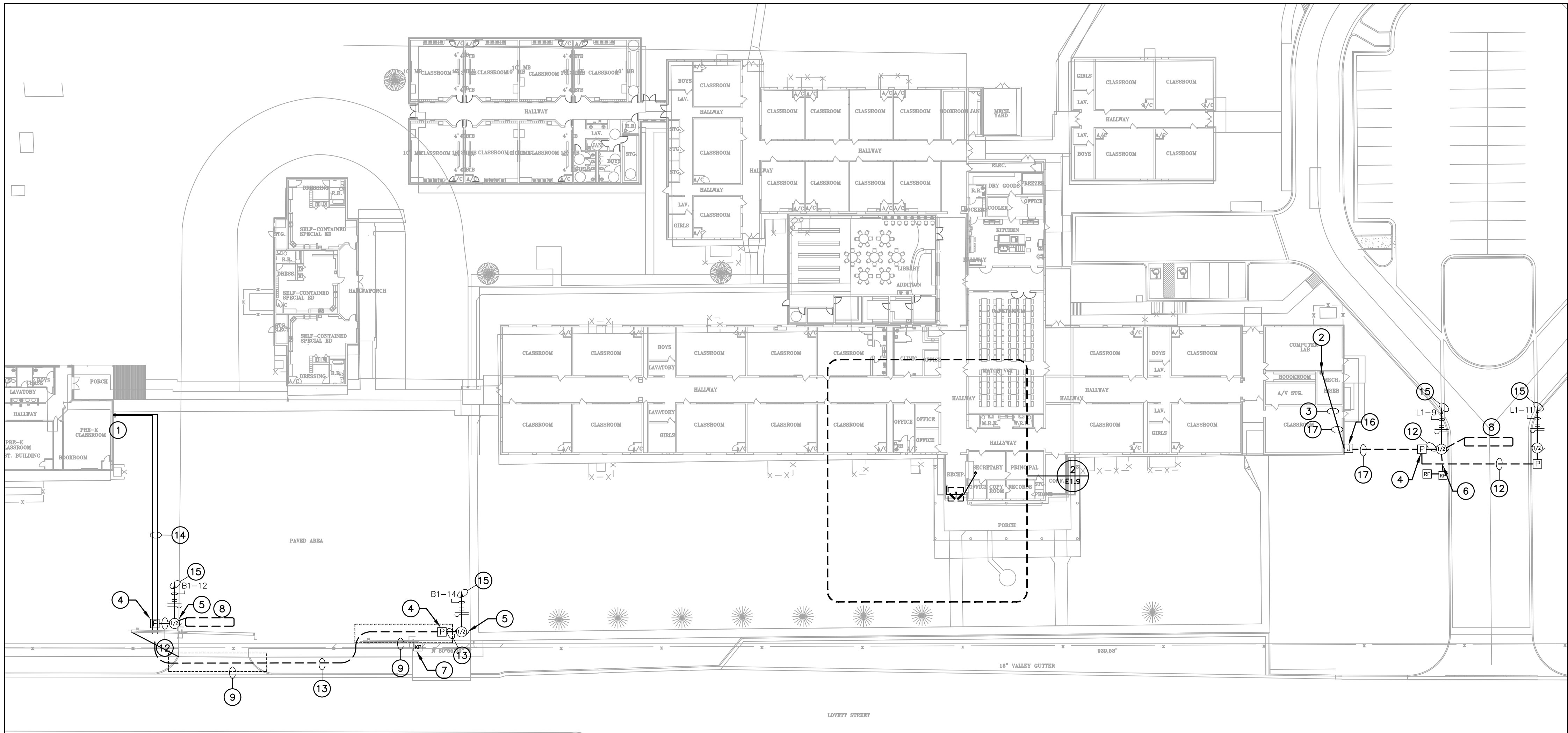
PROJECT NAME	DESCRIPTION	DATE	NO.

PROJECT NO.: 2024
DRAWN BY: L.J.H.
CHECKED BY: R.O.
SHEET TITLE:

SITE ELECTRICAL
& ACCESS
CONTROL PLAN



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF NEW PANEL "C". COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- APPROXIMATE LOCATION OF NEW PANEL "LGT". COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR FOR BUS LOOP. INTERCONNECT WITH RFD READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFD TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFD ACCESS TAGS FOR CAMPUS BUS DRIVERS.
- FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR TEACHER PARKING. MOUNT ONTO GOOSENECK PEDESTAL PED42 OR EQUAL.
- FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
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PROVIDE HARDWARE EQUAL TO:
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3R0DE21031703A630 - 3R APEX PANIC EXIT DEVICES
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TS-9ASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE (1) 1" CONDUIT WITH (2) #10 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE (1) 1" CONDUIT WITH (2) #8 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE (1) 1" CONDUIT WITH (2) #10 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING AND PROVIDE (1) 1" CONDUIT WITH (2) #8 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.
- PROVIDE TWO RUNS OF (1) 1" CONDUIT WITH (2) #10 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



SECURED ENTRANCES ELECTRIC GATES

LINCOLN ELEMENTARY

PROJECT NAME

PROJECT LOCATION

DESCRIPTION

DATE

NO.

PROJECT NO.: 2024

DRAWN BY: L.J.H.

CHECKED BY: R.O.

SHEET TITLE:

**SITE ELECTRICAL
& ACCESS
CONTROL PLAN**

S H E E T

E1.8



NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.

MOTORS AND CONTROLS

	ALL RECEPTACLES SHALL BE MOUNTED 16" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
	SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
	DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
	"EM" DENOTES EMERGENCY CIRCUIT. PROVIDE RED RECEPTACLE AND FACER PLATE. "GF" DENOTES GROUND FAULT INTERRUPTER. "WP" DENOTES WEATHERPROOF. "IC" DENOTES ISOLATED GROUND. "IP" DENOTES SAFETY TYPE, (TAMPER PROOF) "DR" DENOTES DROPPED RECEPTACLE. "AC" DENOTES ABOVE COUNTER MOUNTING. SEE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT.
	DUPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
	DUPLEX WALL RECEPTACLE ON A CIRCUIT DEDICATED TO DATA PROCESSING, GRAY COLOR. PROVIDE ISOLATED GROUND TYPE RECEPTACLES WHERE NOTED.
	SPLIT WIRED RECEPTACLE. TOP RECEPTACLE SHALL BE SWITCHED ACCORDING TO PLANS, AND BOTTOM SHALL REMAIN UNSWITCHED.
	FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 125V.
	FOURPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
	SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED.
	FLUSH ELECTRICAL FLOOR OUTLET, "P" DENOTES POKE-THRU.
	"D" INDICATES DUPLEX RECEPTACLE, "R" INDICATES RED RECEPTACLE ON EMERGENCY POWER
	MULTI-OUTLET SURFACE RACEWAY. SEE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
	JUNCTION BOX (SQUARE)
	JUNCTION BOX
	DUPLEX RECEPTACLE WITH HOMERUN
	DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
	TWO-GANG FLOOR OUTLET
	THREE-GANG FLOOR OUTLET
	POWER POLE
	DIRECT CONNECTION TO EQUIPMENT
	PULL BOX (OVER 4" SQUARE)
	TENANT LIGHTING JUNCTION BOX
	TENANT POWER JUNCTION BOX
	CLOCK RECEPTACLE TO BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDE CLOCK. (1) SINGLE SIDE NO NUMBER MEANS CLOCK TO MOUNTED WITH BACK SURFACE ON WALL.

ALL RECEPTACLES SHALL BE MOUNTED 16" ABOVE FINISHED FLOOR
TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

 CAP AND STAKE
 CONDUIT CONCEALED IN WALL OR CEILING
 CONDUIT UNDERSLAB OR UNDERGROUND
 EMERGENCY CONDUIT
 EXPOSED CONDUIT
 UNDERGROUND CONDUIT, "DB" DENOTES DUCTBANK ENCASED IN CONCRETE
 OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
 CONDUIT TURNED UP
 CONDUIT TURNED DOWN

 HASH MARKS INDICATE NUMBER OF CONDUCTORS.
 LEFT TO RIGHT: PHASE/NEUTRAL/SWITCH LEG/GROUND/ISOLATED GROUND
 NO HASH MARKS INDICATES 2# 12, PLUS GROUND, UNLESS NOTED OTHERWISE.

 1LA-2,4
 12
 (ON) 1LA-6
 T

HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
 PARTIAL CIRCUIT HOMERUN TO PANEL.

COMMUNICATIONS CONDUIT OR CABLE:
 "C" DENOTES MASTER CLOCK;
 "CA" DENOTES MASTER CLOCK;
 "CR" DENOTES CASH REGISTER
 "D" DENOTES DATA;
 "FA" DENOTES FIRE ALARM,
 "I" DENOTES INTERCOM,
 "OHE" DENOTES OVERHEAD ELECTRICAL LINE,
 "PA" DENOTES PAGING,
 "S" DENOTES SECURITY,
 "T" DENOTES TELEPHONE,
 "V" DENOTES VIDEO.

 DISTRIBUTION PANEL

 SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER

 PANELBOARD (FLUSH/SURFACE MOUNT)

 FLOOR MOUNTED DRY-TYPE TRANSFORMER

ALL RECEPTACLES SHALL BE MOUNTED 16" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

THE FOLLOWING NOTATIONS REFER TO ALL COMMUNICATIONS OUTLETS:

"FAX" DENOTES OUTLET DEDICATED FOR A FAX.

"W" DENOTES WALL PHONE SHALL BE MOUNTED AT 42" A.F.F.

"PAY" DENOTES PAY PHONE SHALL BE MOUNTED 42" A.F.F.

◀ TELEPHONE WALL OUTLET.

◁ DATA WALL OUTLET.

◀ VOICE/DATA OUTLET

● FLUSH TELEPHONE FLOOR OUTLET, "P" DENOTES POKE-THRU

◐ FLUSH DATA FLOOR OUTLET, "P" DENOTES POKE-THRU

◑ FLUSH VOICE/DATA FLOOR OUTLET, "P" DENOTES POKE-THRU

HS SCHOOL INTERCOMMUNICATION SYSTEM DESKSET.

HS SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.

HTV TELEVISION OUTLET

1 GANG JUNCTION BOX WITH ONE FEMALE COAX BARREL CONNECTOR MOUNTED IN SINGLE GANG S.S. COVER PLATE.

MF^W MICROPHONE FLOOR OUTLET, "W" INDICATES WALL MOUNTED

VC^{VC} CEILING MOUNTED SPEAKER. "VC" INDICATES VOLUME CONTROL ON SPEAKER.

HS WALL MOUNTED SPEAKER.

Diagram illustrating the components of a reference callout symbol:

- REFER TO**: Points to the top of the bracketed 'RE:'.
- DRAWING/DETAIL NUMBER**: Points to the top of the '1' inside the bracket.
- SHEET NUMBER**: Points to the bottom of the '1' inside the bracket.

The symbol itself is a circle containing the number **1** above the text **E3-2**.

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

	SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
	INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
	DRAWING NOTE REFERENCE
	STARTER/DISCONNECT SCHEDULE REFERENCE
	FEEDER SCHEDULE REFERENCE
	LIGHTING CONTACTOR
	TIME SWITCH
	PHOTOCELL
	PUSH BUTTON
	TIMECLOCK
	RELAY

	WATER FLOW SWITCH
	SUPERVISORY SWITCH
	SMOKE DETECTOR - "D" INDICATES DUCT TYPE
	HEAT DETECTOR
	BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
	BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF S
	SPEAKER/VISUAL +80" A.F.F. - 15/75cd UNLESS NOTED OTHERWISE.
	MAGNETIC DOOR HOLDER
	AUXILIARY CONTROL RELAY
	FIRE ALARM PULL STATION +42" AFF
	FIREMAN'S TELEPHONE JACK +42" AFF
	AUDIO VISUAL FIRE ALARM HORN +80" AFF
	AUDIO FIRE ALARM HORN +80" AFF
	VISUAL FIRE ALARM (STROBE) +80" AFF
	FIRE ALARM CONTROL PANEL
	REMOTE FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM VOICE EVACUATION PANEL
	FIRE ALARM SPEAKER / WALL MOUNTED
	MINI AUDIO FIRE ALARM HORN +80" AFF
	MINI AUDIO/VISUAL FIRE ALARM HORN +80" AFF
	FIRE FIGHTER HANDSET
	REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
	FIRE SMOKE DAMPER
	VISUAL FIRE ALARM STROBE, CEILING MOUNTED
	AUDIO VISUAL FIRE ALARM HORN-CEILING MOUNTED
	FIRE ALARM SPEAKER / VISUAL - CEILING MOUNTED
	POWER SUPPLY

ALL SWITCHES SHALL BE MOUNTED AT 42" ABOVE FINISHED FLOOR TO
 CONTROL OF DEVICE UNLESS NOTED OTHERWISE.

\$ SWITCH, SPST, 20A, 120/277V.

\$₂ SWITCH, 20A, 120/277V:
 "2" DENOTES DPST.
 "3" DENOTES THREE-WAY.
 "4" DENOTES FOUR-WAY.
 "K" DENOTES KEY SWITCH.
 "P" DENOTES PILOT LIGHT.
 "ST" DENOTES SPRING WOUND TIMER.
 "R" DENOTES RED.
 "F" FAN SPEED CONTROLLER
 "OC" OCCUPANCY SENSOR
 "L" DENOTES LOCKING SWITCH

\$_{MC} SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT.

\$_D DIMMER CONTROL SWITCH, 600 WATT UNLESS OTHERWISE NOTED.

\$_X THREE-WAY KEY SWITCH, 20A, 120/277V.

\$_{SC} WALL MOUNTED SWITCH TO CONTROL MOTORIZED PROJECTION
 SCREENS.

\$_M MOTOR RATED SWITCH WITH THERMAL OVERLOADS

\$_T MOTOR RATED TOGGLE SWITCH

OC CEILING MOUNTED OCCUPANCY SENSOR

KP KEY PAD FOR GATE

RF RFID READER

PB PUSH BUTTON

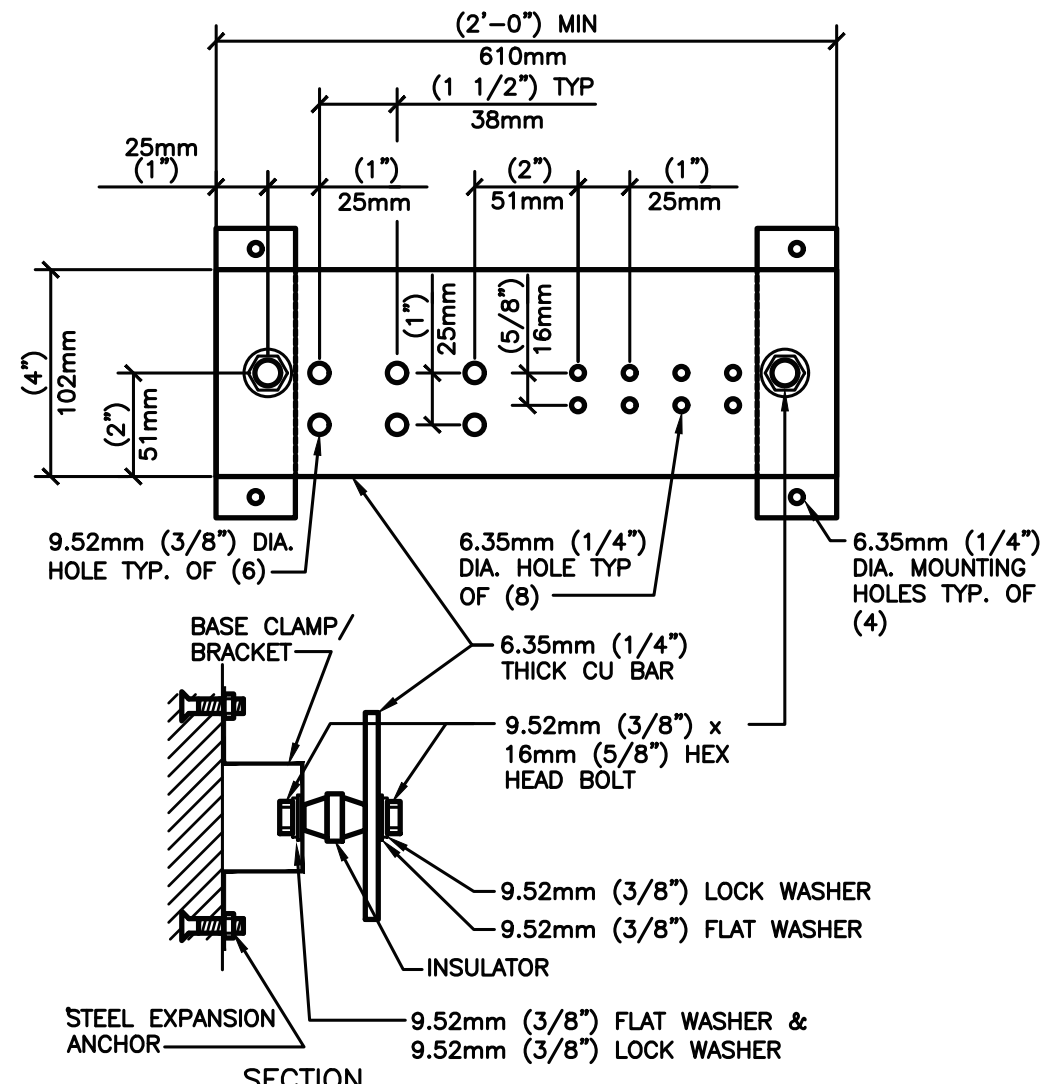
GENERAL ELECTRICAL NOTES (APPLIES TO ALL POWER SHEETS):

- A. PROPOSED CONDUIT ROUTING IS DIAGRAMMATIC. CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID. CLARIFICATIONS CAN BE REQUESTED VIA RFI PRIOR TO BID.
- B. CONTRACTOR MUST MARK ALL UTILITIES PRIOR TO DIGGING. UTILITIES DAMAGED DURING CONSTRUCTION MUST BE REPAIRED IN CONFORMANCE TO OWNER'S REQUIREMENTS.
- C. COORDINATE EXACT LOCATION OF GATE MOTORS WITH OWNER/ENGINEER BY MEANS OF SITE VISIT AND COORDINATION DRAWINGS.
- D. CONTRACTOR MUST AVOID DISRUPTIONS TO INSTRUCTION DURING CONSTRUCTION.
- E. SEE ALL OTHER PLANS FOR ADDITIONAL DEVICES. SOME POWER CIRCUITING MAY BE ON OTHER PLANS.
- F. CONTRACTOR TO PROVIDE AS-BUILTS.
- G. MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT FOR INDIVIDUAL CIRCUITS, 3/4" CONDUIT FOR MULTIPLE CIRCUITS. ALL CONDUCTORS SHALL BE 75 DEGREE (MINIMUM) COPPER THHN, COLOR CODED AS PER NEC AND LOCAL AMENDMENTS WITH SIZE, TEMPERATURE, AND VOLTAGE PERMANENTLY PRINTED ON THE JACKET. ALL JOINTS SHALL BE MADE UP USING SELF LOCKING, TWIST-ON, COLOR CODED, SQUARE WIRE SPRING GRAB, LONG SKIRT, WIRE CONNECTORS WITH SWEPT WINGS.
- H. PROVIDE #10 AWG MIN NEUTRAL FOR ALL MULTI-WIRE BRANCH CIRCUITS AND PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS AS REQUIRED BY NEC 210.4
- I. CONDUCTOR SIZES INDICATED ASSUME NO MORE THAN (3) SINGLE POLE BRANCH CIRCUITS IN EACH CONDUIT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DE-RATE CONDUCTORS PER NEC TABLE 310.15(B)(2)(6) FOR CONDUITS WITH MORE THAN (3) CURRENT "CARRYING CONDUCTORS". THE NEUTRAL CONDUCTOR SHALL BE CONSIDERED "CURRENT CARRYING" FOR ALL BRANCH CIRCUITS SERVING MORE THAN (4) COMPUTERS.
- J. REFER TO VOLTAGE DROP FEEDER SCHEDULE FOR BRANCH CIRCUITS EXCEEDING 100' IN LENGTH.
- K. ALL EQUIPMENT SHALL HAVE A LOCAL DISCONNECTING MEANS, EITHER CORDED PLUG AND RECEPTACLE OR SWITCHED DISCONNECT. VERIFY FROM EQUIPMENT SUBMITTED OR RELOCATED IF DIRECT CONNECT OR RECEPTACLE. IF DIRECT CONNECT, PROVIDE SWITCH AS PER NEC OTHERWISE, PROVIDE RECEPTACLE, CORD PLUG AS REQUIRED BY EQUIPMENT SUBMITTAL.
- L. FIRESTOP ALL CONDUIT PENETRATIONS IN RATED WALLS. SEE ARCHITECTURAL FOR WALL RATINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUIT TO SHEET ROCK AND REPAIR.
- M. CONDUITS ABOVE CEILING SHALL BE ROUTED ALONG WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR.
- N. PROVIDE FIRE RATED SLEEVES IN ALL FLOOR PENETRATIONS.
- O. PROVIDE NEW 20A/1P BREAKER FOR EACH MOTOR IN EXISTING PANEL.
- P. TAG AND IDENTIFY ALL CABLE RUNS IN ALL JUNCTION BOXES.
- Q. CONTRACTOR SHALL TEST TO ENSURE ALL MOTORS & ACCESS CONTROL FEATURES ARE WORKING PROPERLY TOGETHER WITH A WITNESS REPRESENTATIVE FROM THE OWNER.

GENERAL NOTES SPECIAL SYSTEMS (APPLIES TO ALL SPECIAL SYSTEMS SHEETS):

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR REFERRING TO ALL OTHER PLANS FOR ANY ADDITIONAL SPECIAL SYSTEM DEVICES.
- C. ALL CABLEING TO BE SUPPORTED BY J-HOOKS WHEN NOT IN CONDUIT OR CABLE TRAY. DO NOT STRAP TO STRUCTURE. SEPARATE CABLEING; PROVIDE SEPARATE J-HOOKS FOR DATA, CONTROLS, SECURITY, AND FIRE ALARM IF NOT IN CONDUIT. THE WRAP CABLEING TOGETHER EVERY 4 FEET. PROVIDE SERVICE LOOPS IN CABLEING, THE WRAPPED TOGETHER. SERVICE LOOP SHALL BE 18 INCHES MINIMUM.
- D. PROVIDE CONDUIT SLEEVES THROUGH WALLS. ALL CONDUITS SHALL HAVE NYLON BUSHINGS ON THE ENDS. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS UNDER TWO (2) INCHES. PROVIDE MULE TAPE IN ALL EMPTY CONDUITS TWO (2) INCHES AND LARGER OR ANY CONDUIT RUNS LONGER THAN 100 FEET WITHOUT INTERMEDIATE PULL BOXES. SLEEVES LESS THAN 36 INCHES DO NOT REQUIRE PULL STRINGS.
- I. ALL CABLEING SHALL BE PLENUM RATED. NO EXCEPTIONS.
- L. PROVIDE FIRE RATED SLEEVES WITH INTUMESCENT FILL IN ALL FLOOR PENETRATIONS.
- M. PROVIDE COMBINATION DATA AND POWER PLATES IN SPLIT BOXES.
- N. CONTRACTOR TO PROVIDE MATERIAL AND LABOR TO MILL EXISTING DOORS/MULLION FOR INSTALLATION OF WIRING, AND ALL DOOR TOUCHBAR EXIT DEVICES.
- O. ALL CABLEING AT DOORS SHALL BE CONCEALED WITHIN DOOR MULLION OR WALLS. NO SURFACE MOUNTED CABLEING OR CONDUIT SHALL BE ALLOWED.

S H E E T
E0.0



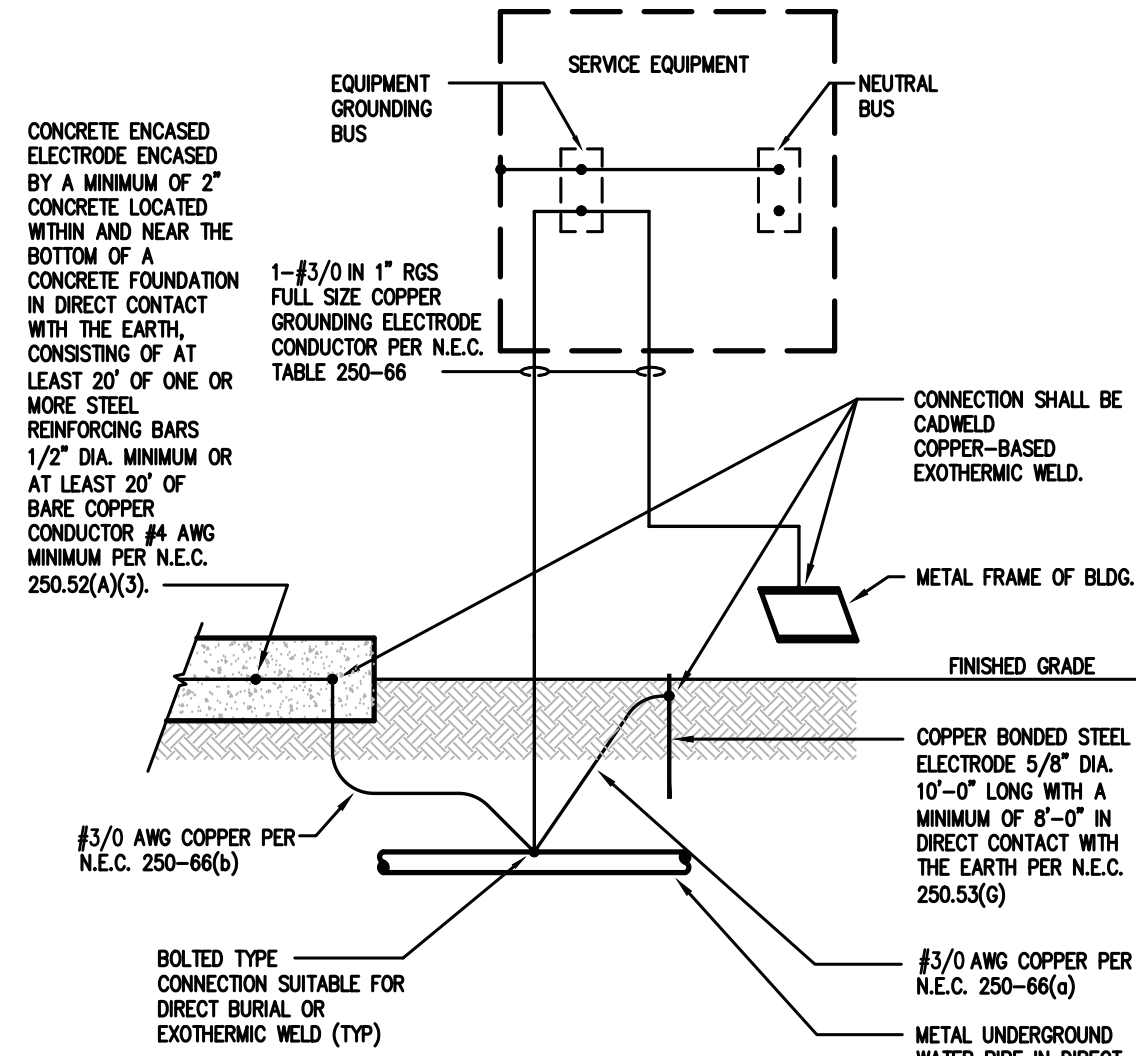
GENERAL NOTES:

1. ALL HARDWARE SHALL BE STAINLESS STEEL.
2. PROVIDE 1 MOUNTING POINT PER 305mm (12") OF BAR LENGTH.
3. HOLES MAY BE ADDED IF REQUIRED.

1 GROUNDING BAR DETAIL

NTS

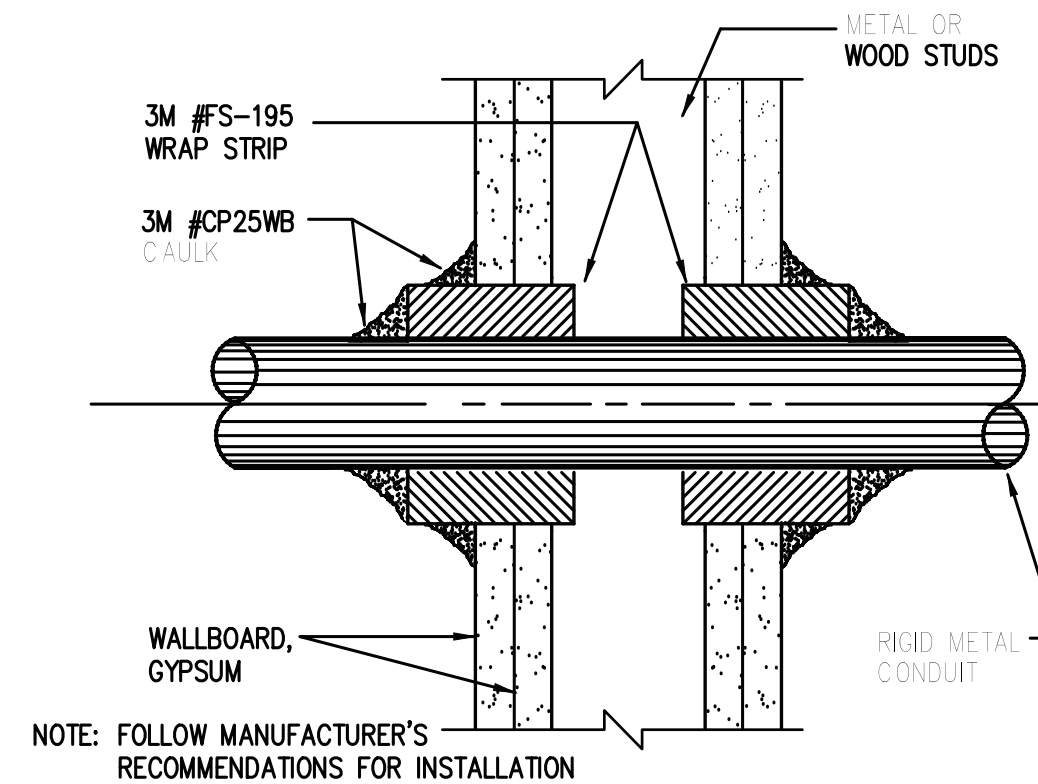
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NOTE: PROVIDE GROUNDING BUSHING ON CONDUIT ENDS. CONNECT BUSHING TO GROUNDING CONDUCTOR.

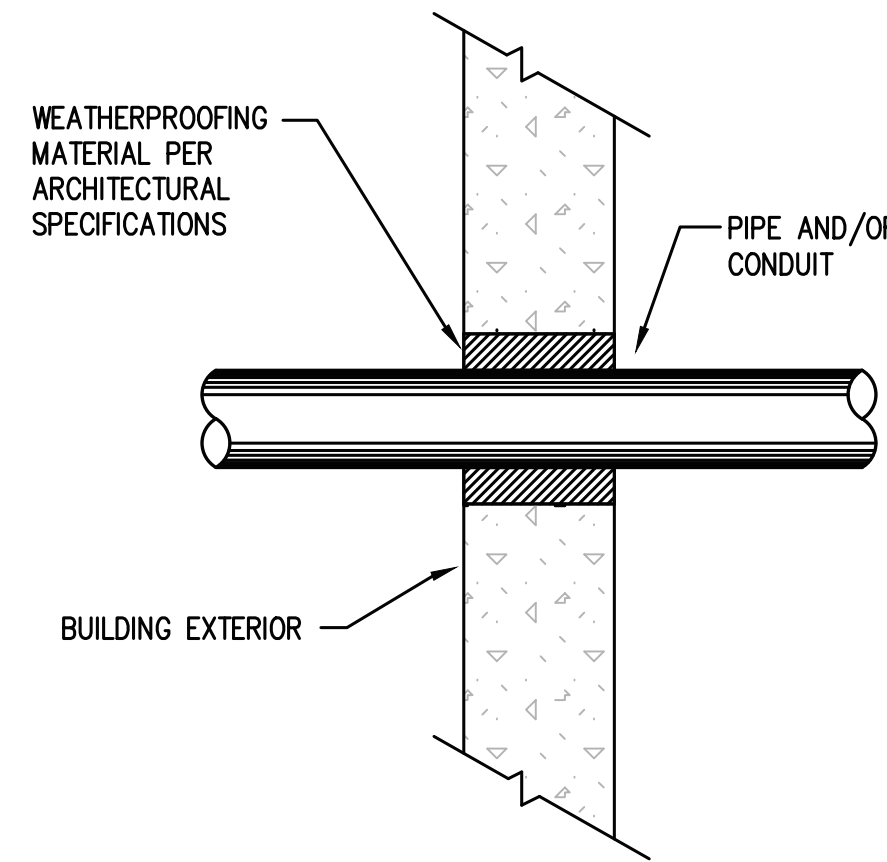
2 GROUNDING ELECTRODE SYSTEM

NTS



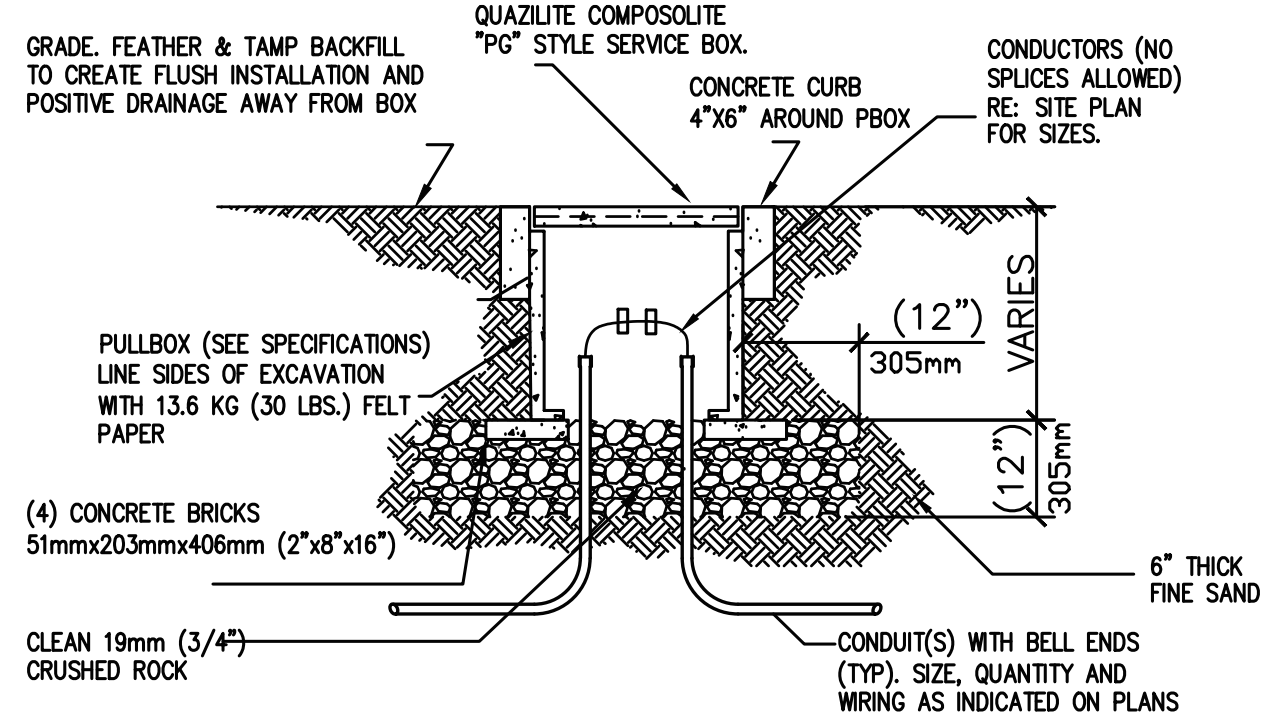
1 AND 2 HR. GYPSUM/WALLBOARD PENETRATION DETAIL

NTS



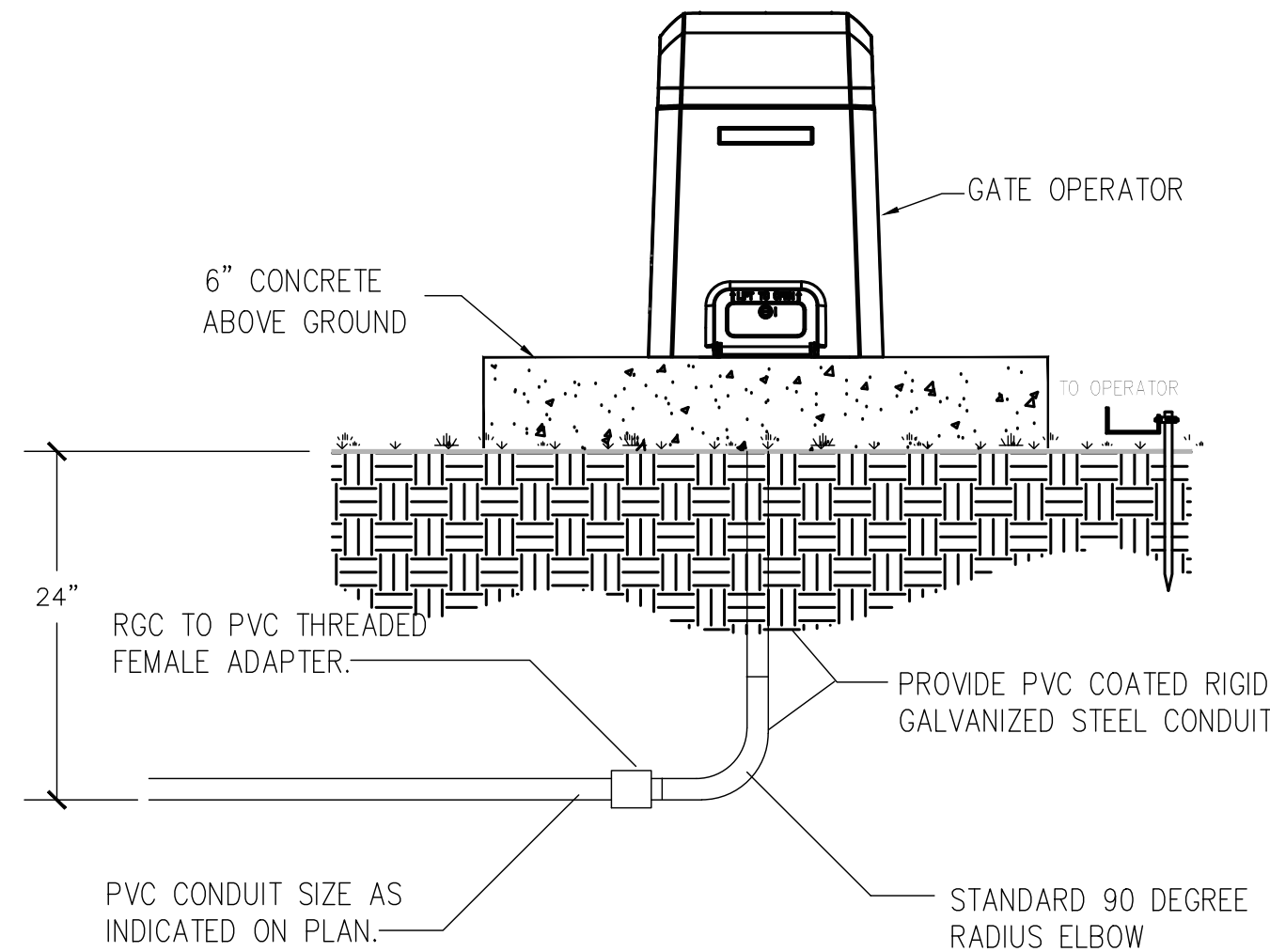
4 PIPE AND/OR CONDUIT PENETRATION

NTS



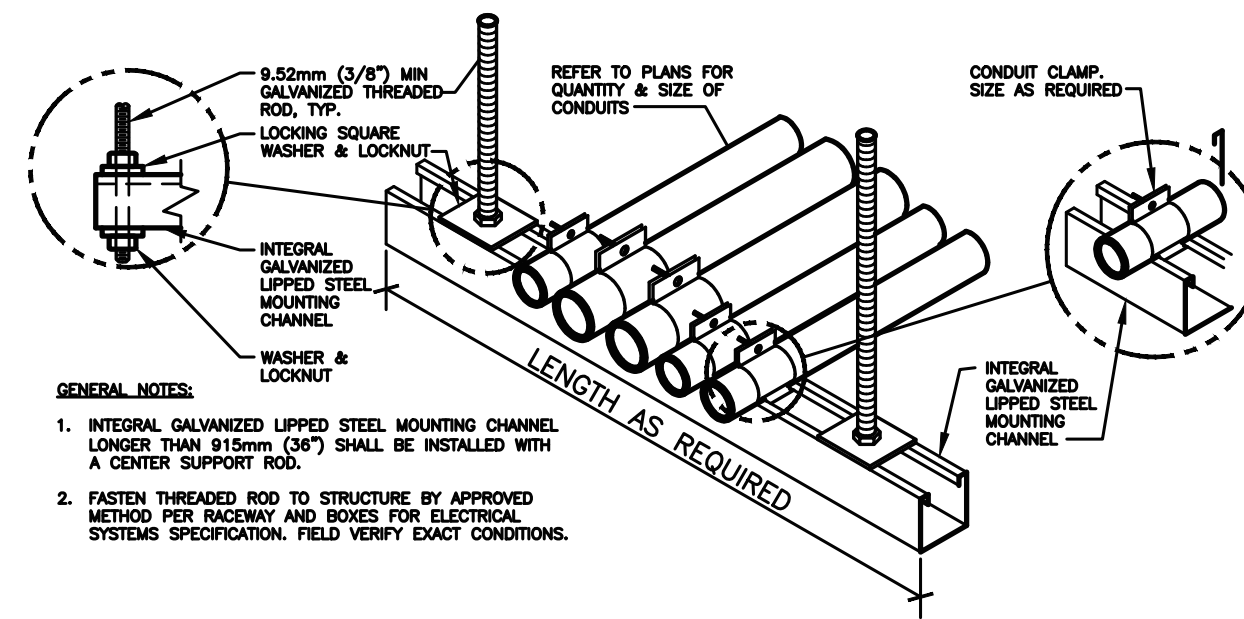
5 UNDERGROUND CONCRETE PULLBOX

NTS



6 GATE MOTOR MOUNTING DETAIL

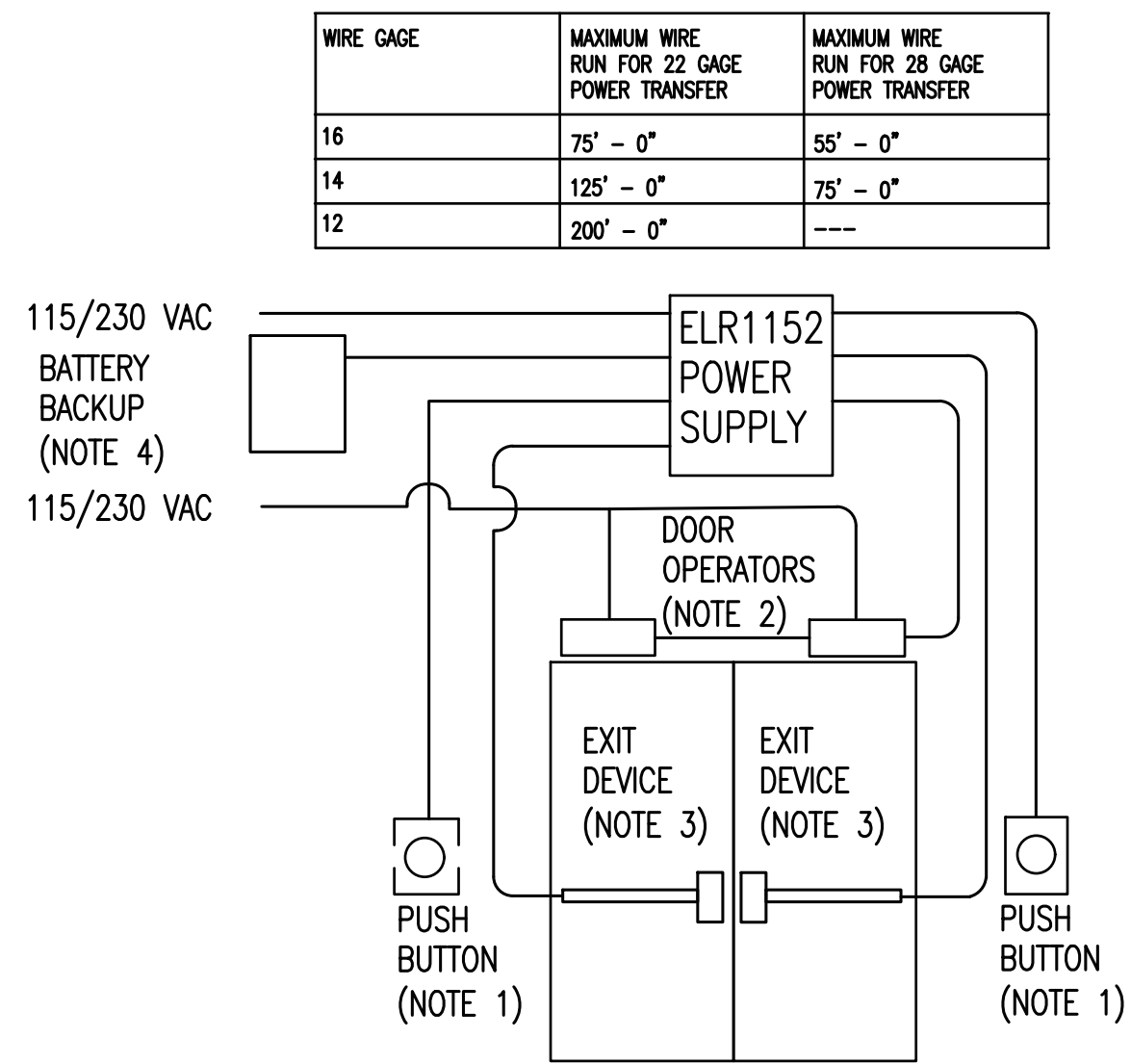
NTS



- GENERAL NOTES:
1. INTEGRAL GALVANIZED LIPPED STEEL MOUNTING CHANNEL LONGER THAN 915mm (36") SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
 2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS SPECIFICATION. FIELD VERIFY EXACT CONDITIONS.

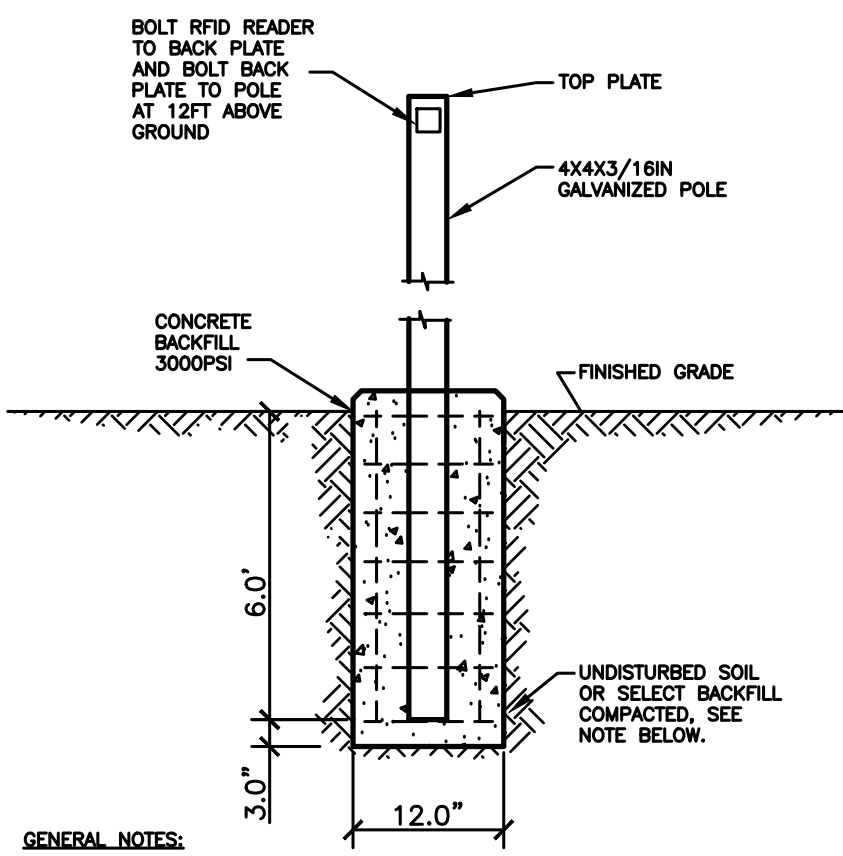
7 CONDUIT TRAPEZE MOUNTING DETAIL

NTS



8 TOUCH BAR EXIT DEVICE DETAIL

NTS

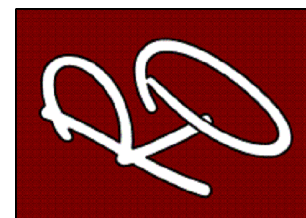


GENERAL NOTES:

1. BACKFILL, CONCRETE, REINFORCING STEEL, AND ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. STRUCTURAL DESIGN IS SHOWN ON STRUCTURAL DRAWINGS.
2. REFER TO SPECIFICATIONS FOR MOUNTING AND LEVELING REQUIREMENTS.

9 POLE BASE DETAIL - TURF AREAS

NTS



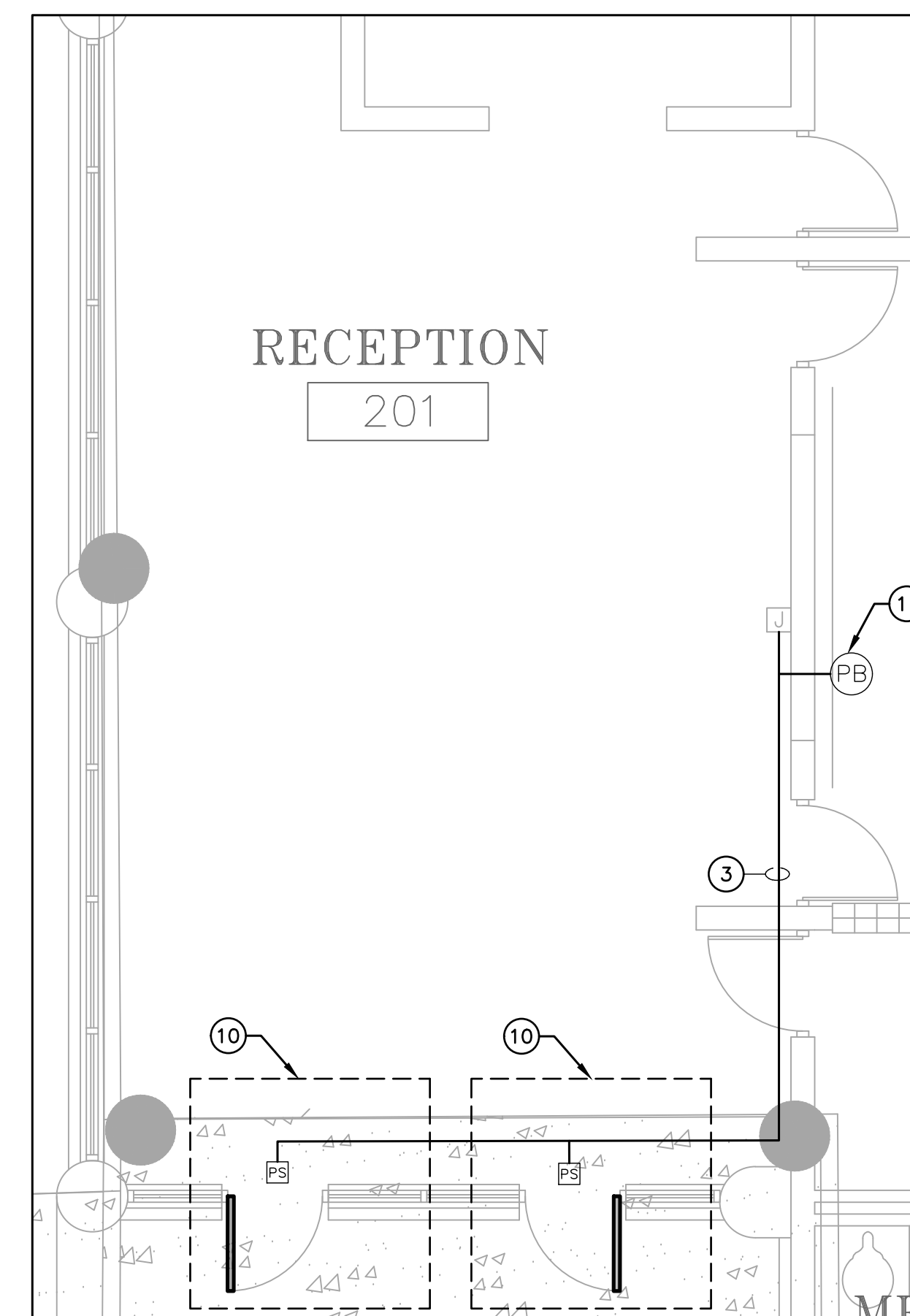
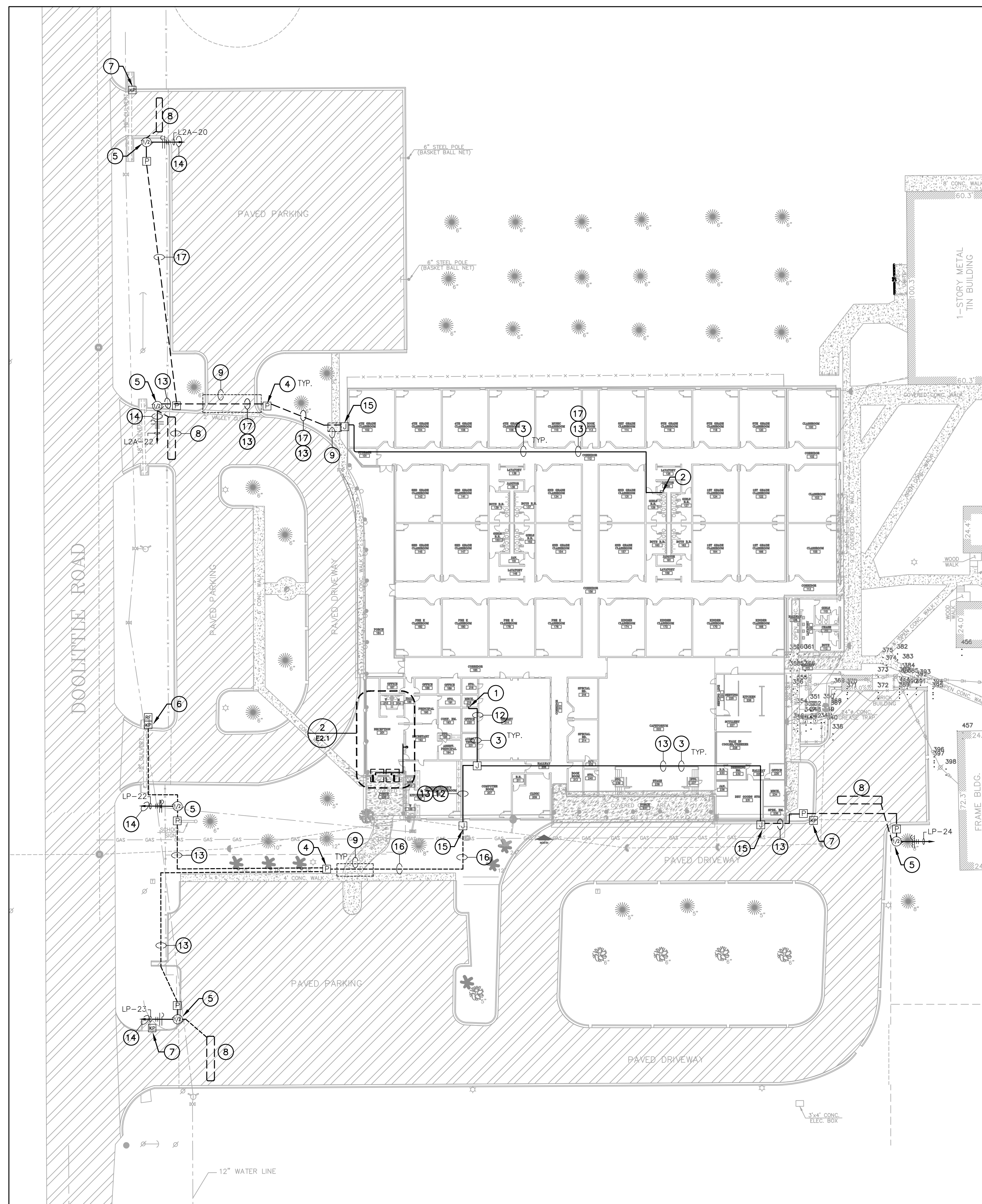
PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
GROUP 2
ELEMENTARY SCHOOLS

PROJECT NAME	DESCRIPTION	DATE	NO.

PROJECT NO.: 2024
DRAWN BY: L.J.H.
CHECKED BY: R.O.
SHEET TITLE:

ELECTRICAL
DETAILS



GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

Ⓢ KEYED NOTES:

1. APPROXIMATE LOCATION OF EXISTING PANEL "LP". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
2. APPROXIMATE LOCATION OF EXISTING PANEL "L2A". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
3. ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
4. PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E01.
5. FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
6. FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PD#2 OR EQUAL FOR BUS LIFT. INTERCONNECT WITH RFID READER LMS1000 WHICH IS TO BE MOUNTED ON 4X4X3/4 GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/E01. CONTRACTOR TO FIELD VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
7. FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR STAFF PARKING. MOUNT ONTO GOOSENECK PEDESTAL PD#2 OR EQUAL.
8. FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RIN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
9. BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
10. FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A WORKING SYSTEM. SEE FISHMAN RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APC 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E01. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COURTYARD. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
RDE21031702A630 – PANIC EXIT DEVICE
3RDE21031703A630 – 3R APC PANIC EXIT DEVICES
12E72626 – CYLINDER STANDARD BEST
RMOKR22689 – RM REMOVABLE MULLION
EPT8-2 POWER TRANSFER 02188 0600 – NO CORE REV A
PS161 – 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY – EXIT BUTTON

11. FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
12. PROVIDE 3-RUNS OF (1) 1" CONDUIT WITH (2) #6 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
13. PROVIDE (1) 1" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
14. PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
15. PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.
16. PROVIDE 2 RUNS OF (1) 1" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
17. PROVIDE (1) 1-1/4" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



SECURED ENTRANCES ELECTRIC GATES

PROJECT NAME

MONTECRISTO ELEMENTARY

PROJECT LOCATION

[illegible]

PROJECT NO.:	2024
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DRAWN BY: L.J.H.

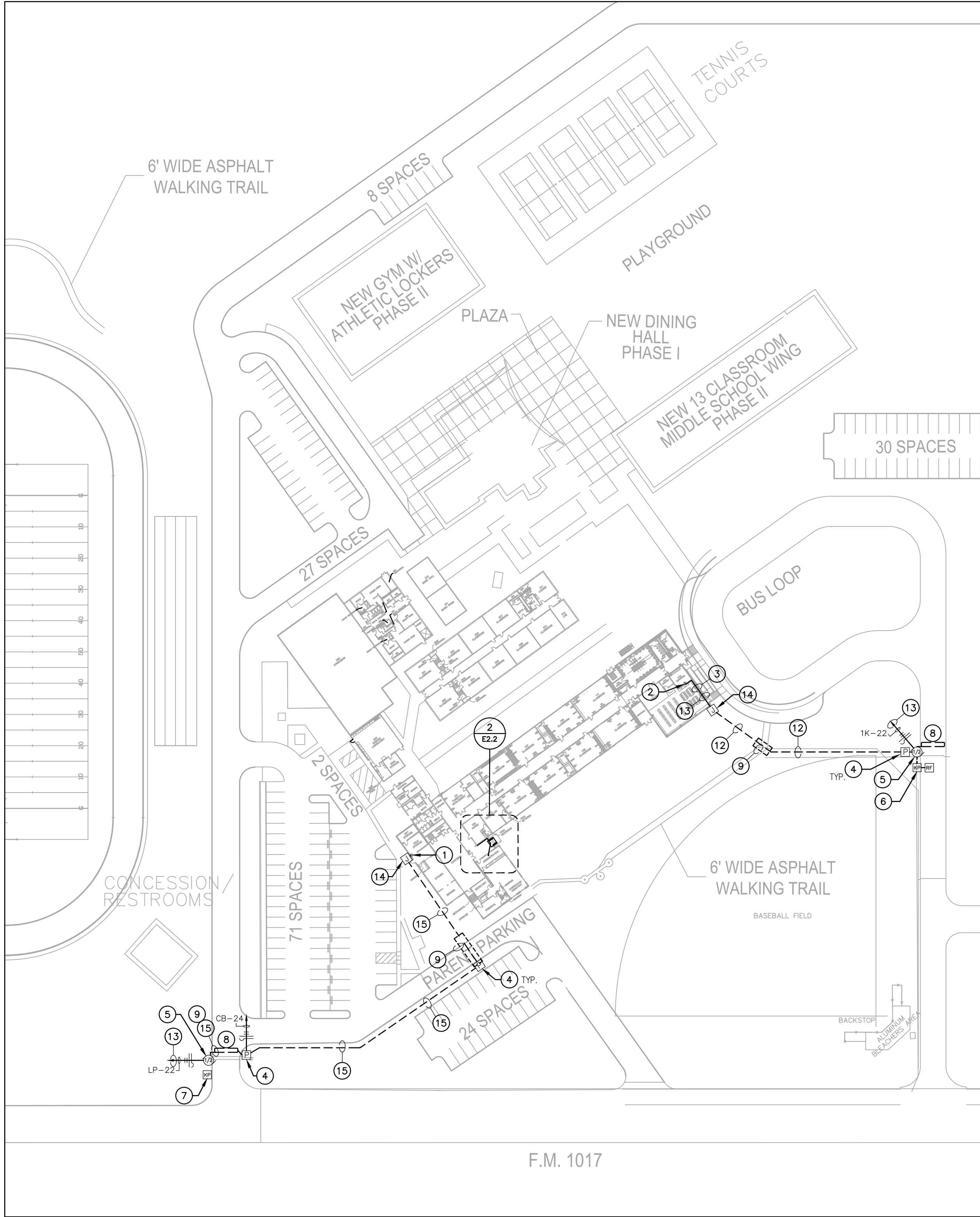
CHECKED BY: R.O.

SHEET TITLE:

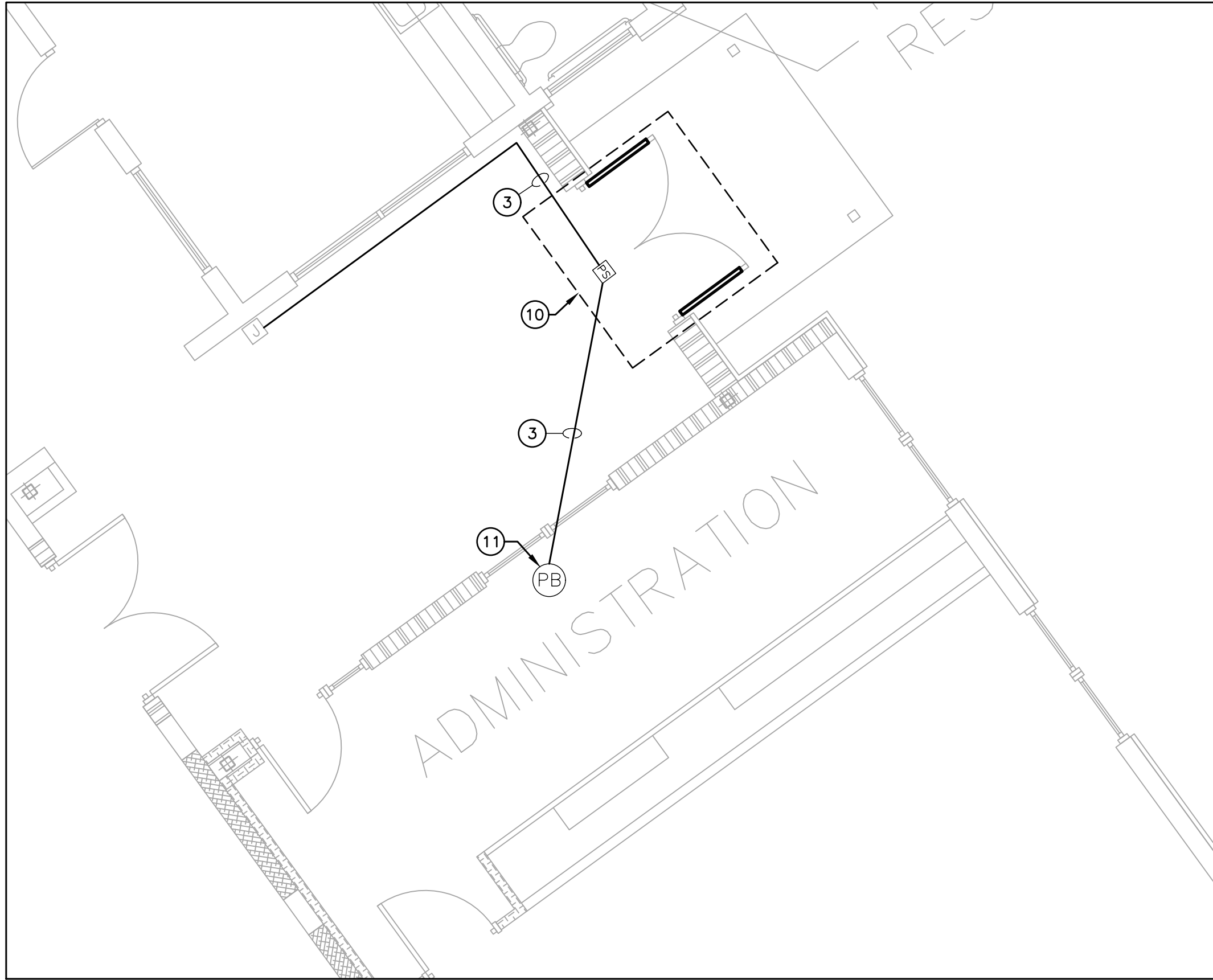
SITE ELECTRICAL & ACCESS CONTROL PLAN

S H E E T

E2.1



1 SITE ELECTRICAL PLAN
1/64" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "1K". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING PANEL "CB".VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
- FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR STAFF PARKING. MOUNT ONTO GOOSENECK PEDESTAL PED42 OR EQUAL.
- FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
- FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE. PROVIDE HARDWARE EQUAL TO:
RODE21031702A630 - PANIC EXIT DEVICE
3RODE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RMOK9822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE (1) 1" CONDUIT WITH (2) #6 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.

- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.
- PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.

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TBP# Firm Registration No. 12179
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PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
BREWSTER ELEMENTARY

NO.	DATE	DESCRIPTION

PROJECT NO.: 2024

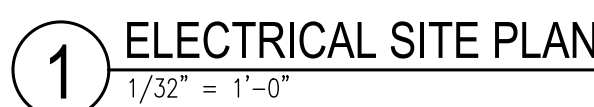
DRAWN BY: L.J.H.

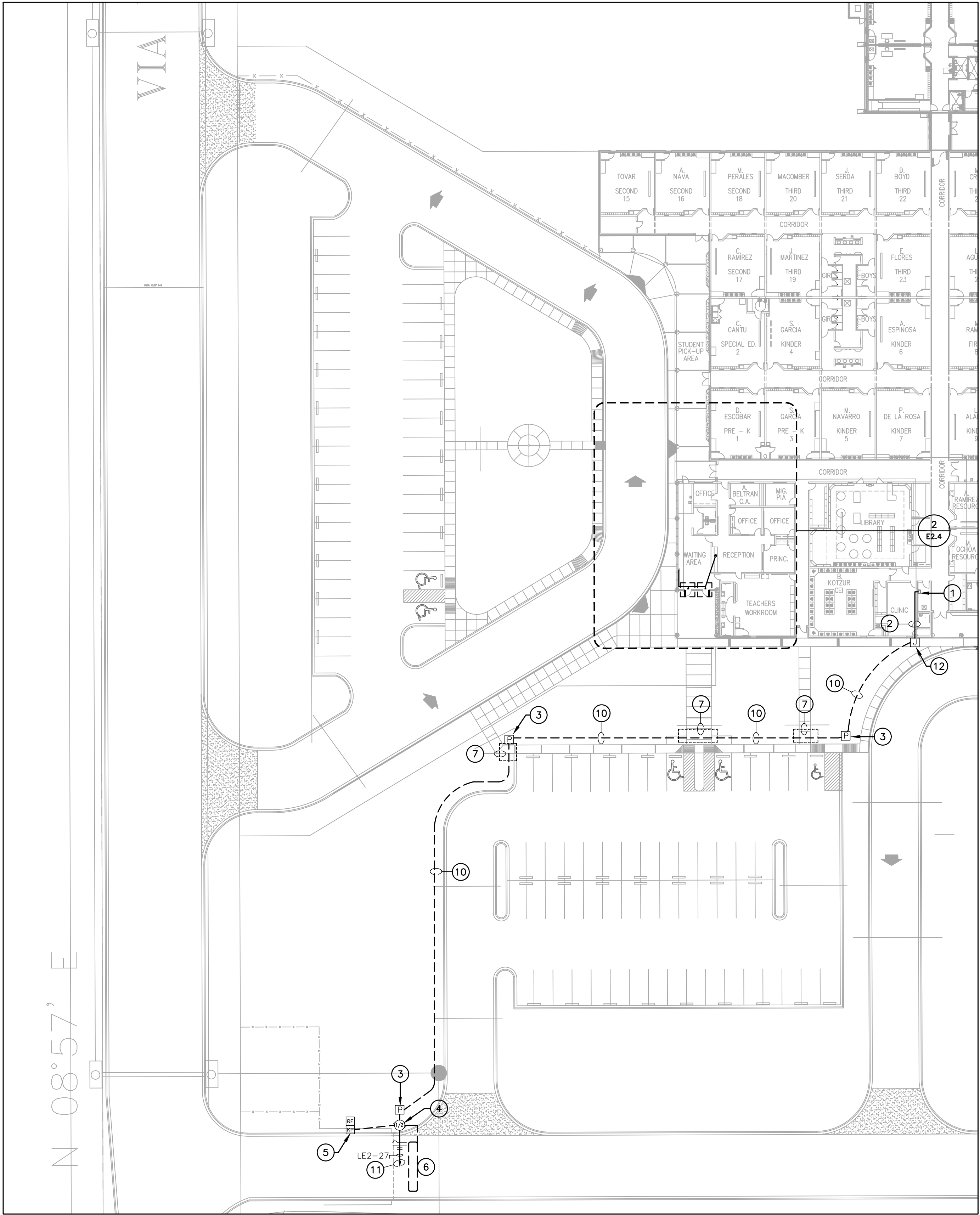
CHECKED BY: R.O.

SHEET TITLE:
SITE ELECTRICAL
& ACCESS
CONTROL PLAN

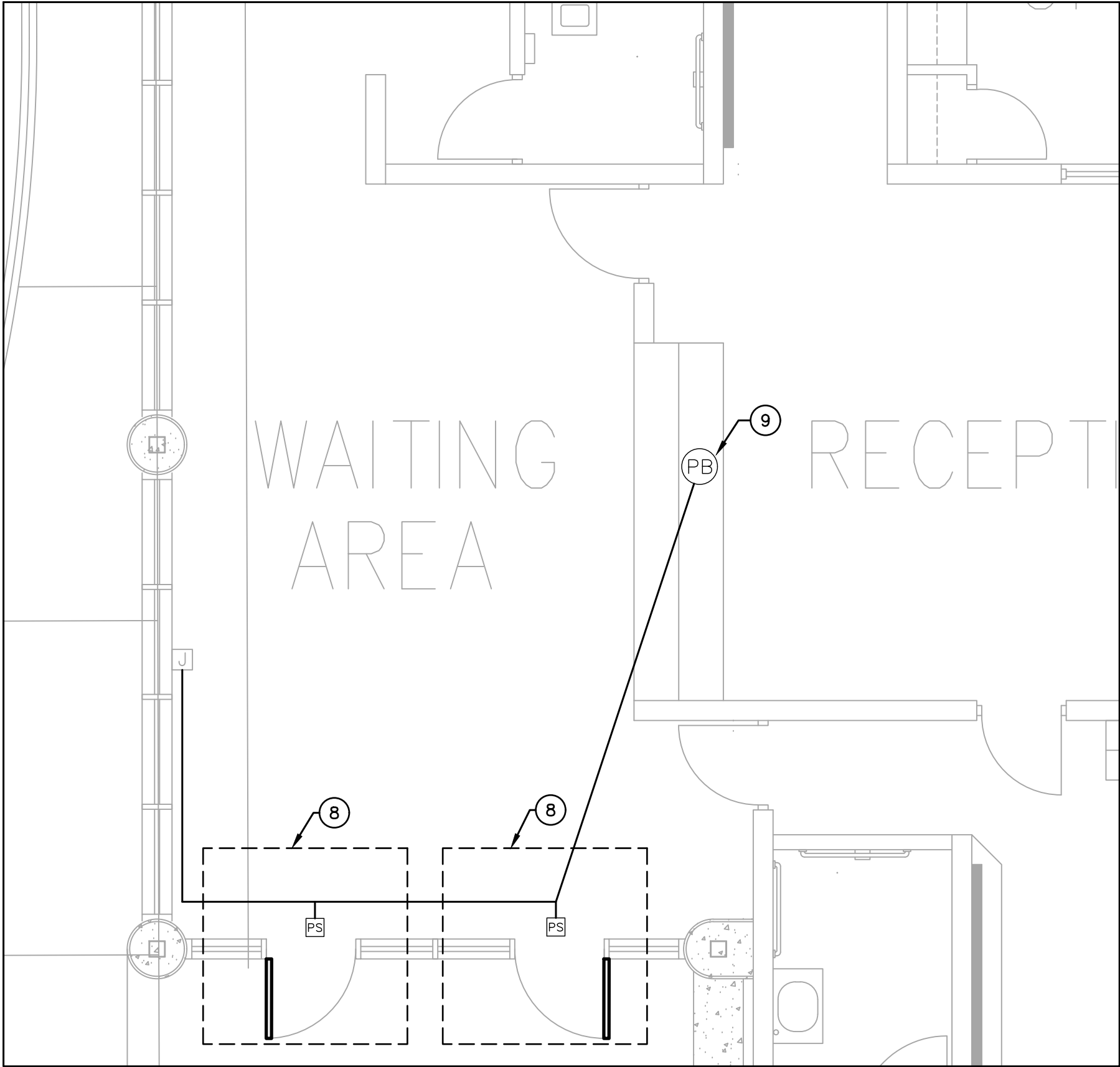
S H E E T

E2.2





1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

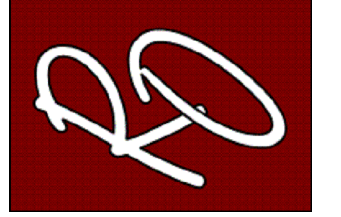
GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECETRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "LE2". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- PROVIDE PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON COOSENECK PEDESTAL PED42 OR EQUAL FOR FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
- FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
- FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
RODE21031702A630 - PANIC EXIT DEVICE
3RODE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RMOKR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-BASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING.
- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



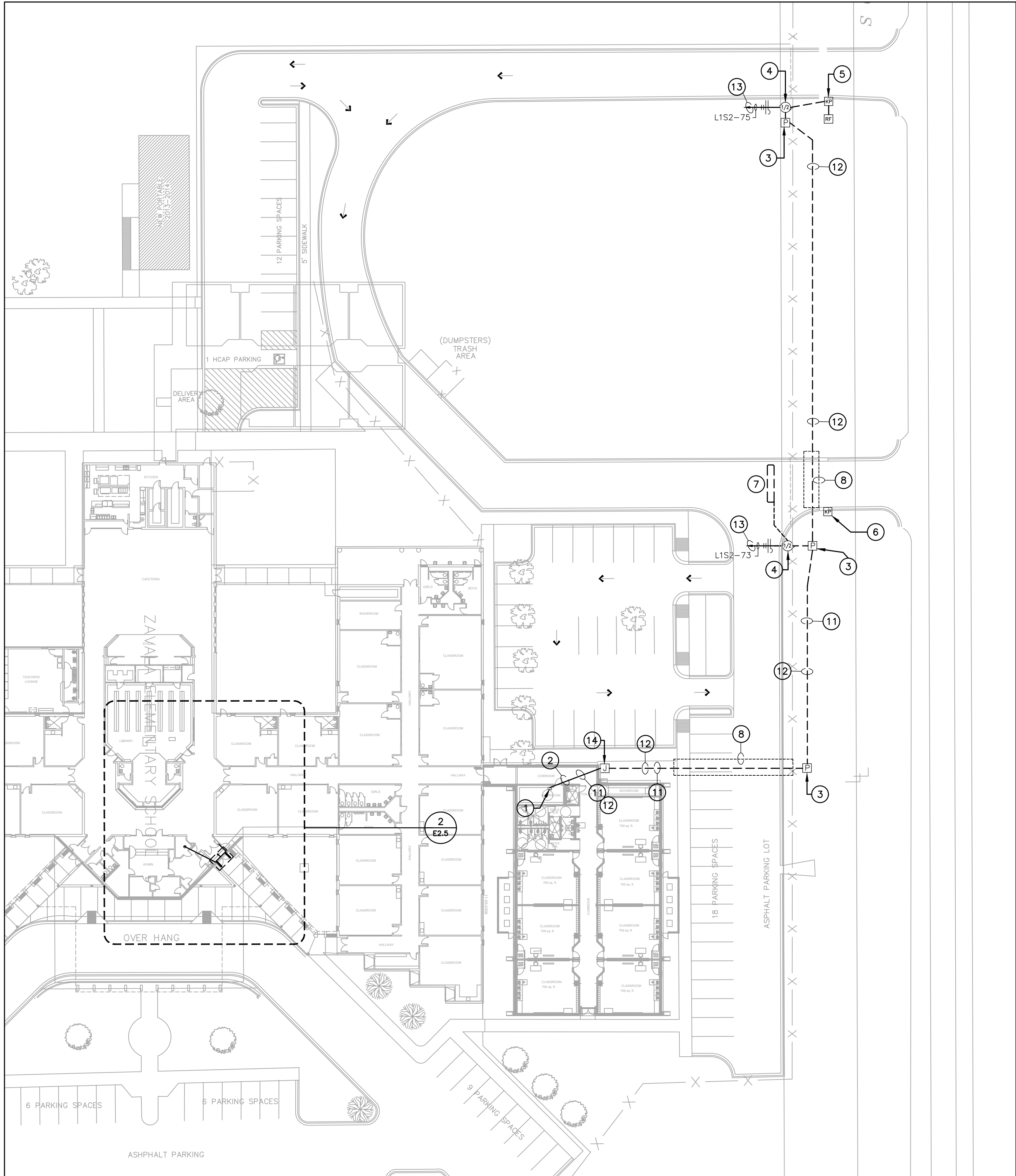
PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
GUERRA ELEMENTARY

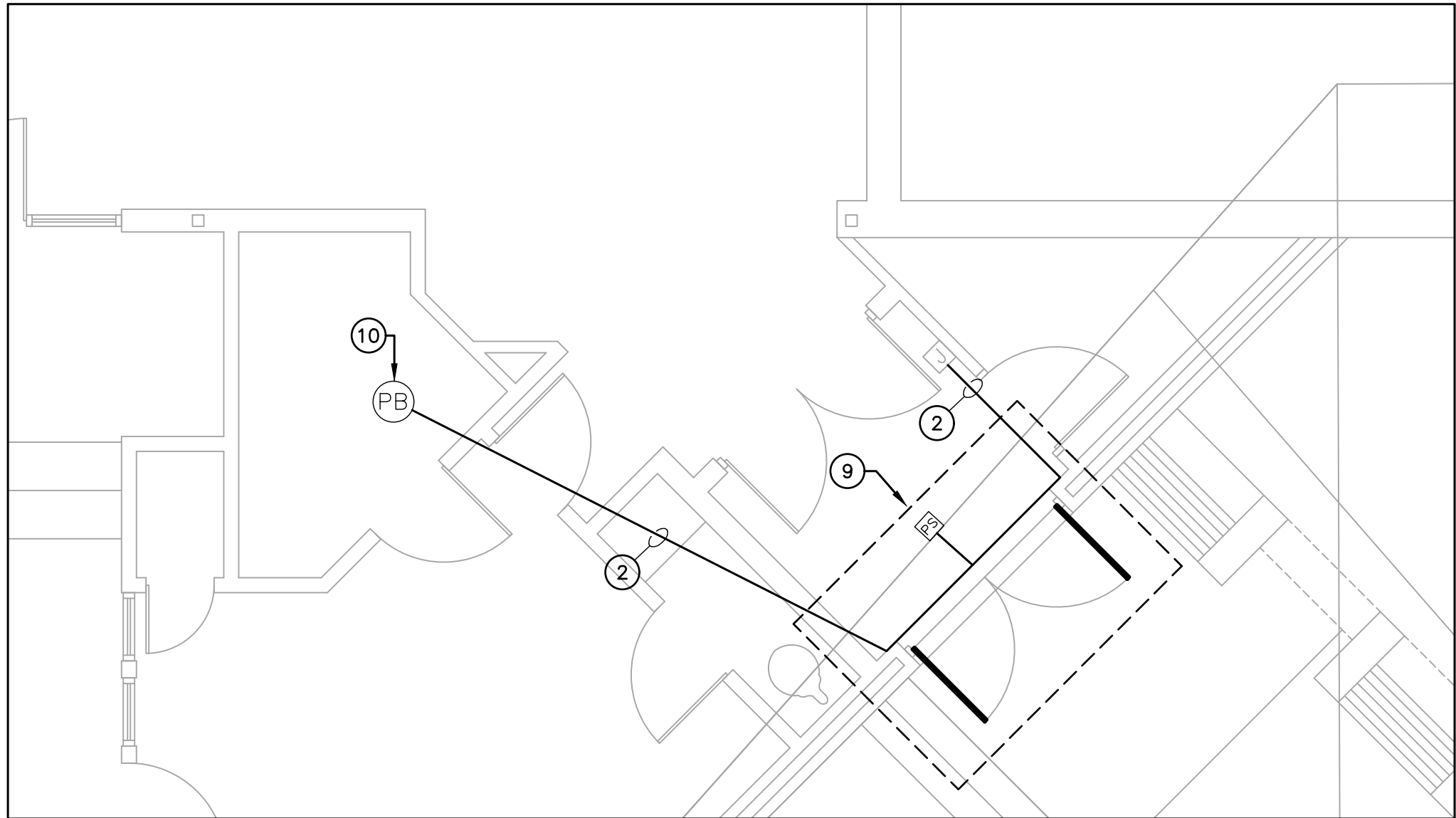
NO.	DATE	DESCRIPTION

PROJECT NO.: 2024
DRAWN BY: L.J.H.
CHECKED BY: R.O.
SHEET TITLE:

SITE ELECTRICAL
& ACCESS
CONTROL PLAN



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

GENERAL NOTES:

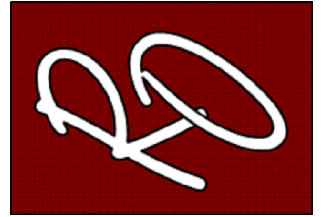
A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "L1S2". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/D.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
- FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR STAFF PARKING. MOUNT ONTO GOOSENECK PEDESTAL PED42 OR EQUAL.
- FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
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PROVIDE HARDWARE EQUAL TO:
R0DE210317024630 - PANIC EXIT DEVICE
3R0DE210317034630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RMOKR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE (1) 1" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
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NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.

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TBPPE Firm Registration No. 12179
www.ro-engineering.com



PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
ZAVALA ELEMENTARY

PROJECT NAME

DESCRIPTION

DATE

NO.

PROJECT NO.: 2024

DRAWN BY: L.J.H.

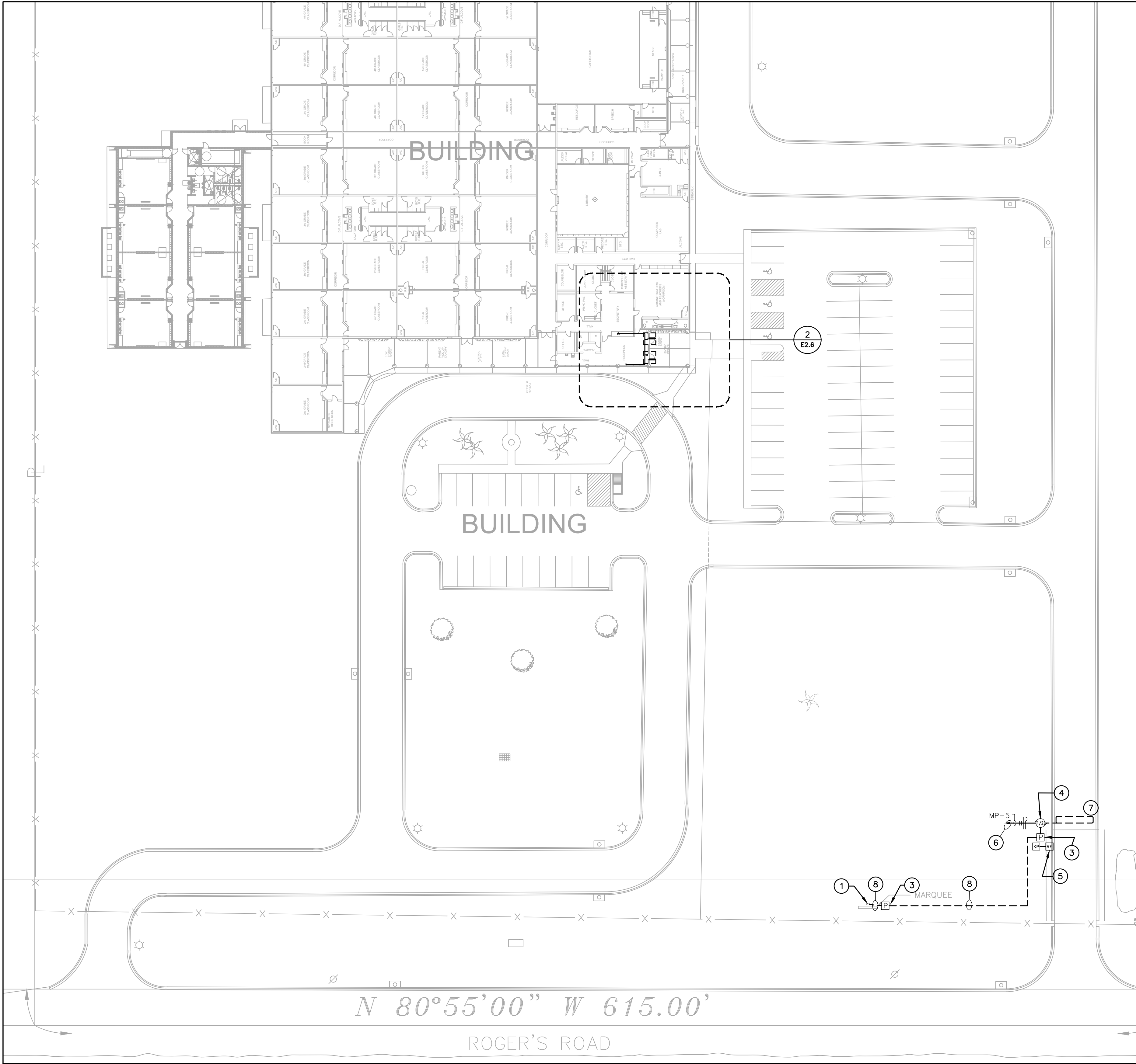
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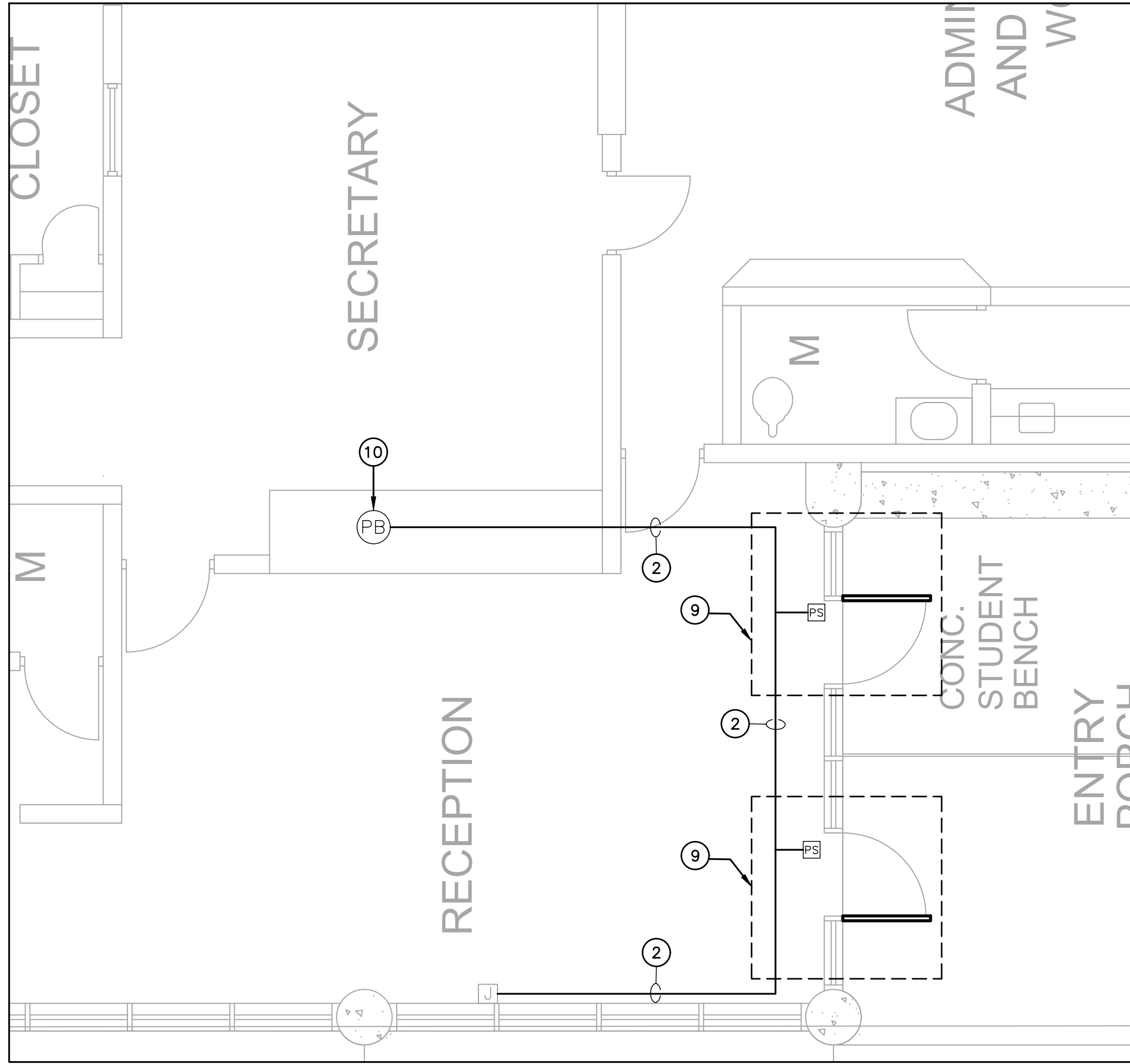
SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T

E2.5



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

GENERAL NOTES:

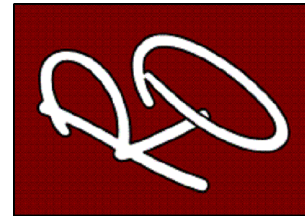
A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "MP". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL GRADE HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
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- PROVIDE (1) 1" CONDUIT WITH (2) #10 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING.
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R0DE21031702A630 - PANIC EXIT DEVICE
3R0DE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RM0KR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.

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PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

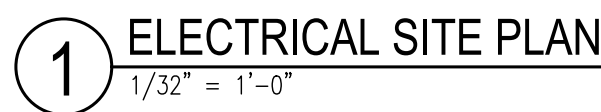
PROJECT LOCATION
TRUMAN ELEMENTARY

NO.	DATE	DESCRIPTION

PROJECT NO.: 2024
DRAWN BY: L.J.H.
CHECKED BY: R.O.
SHEET TITLE:

SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T
E2.6



A. REFER TO SHEET E0.0 FOR ELECETRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

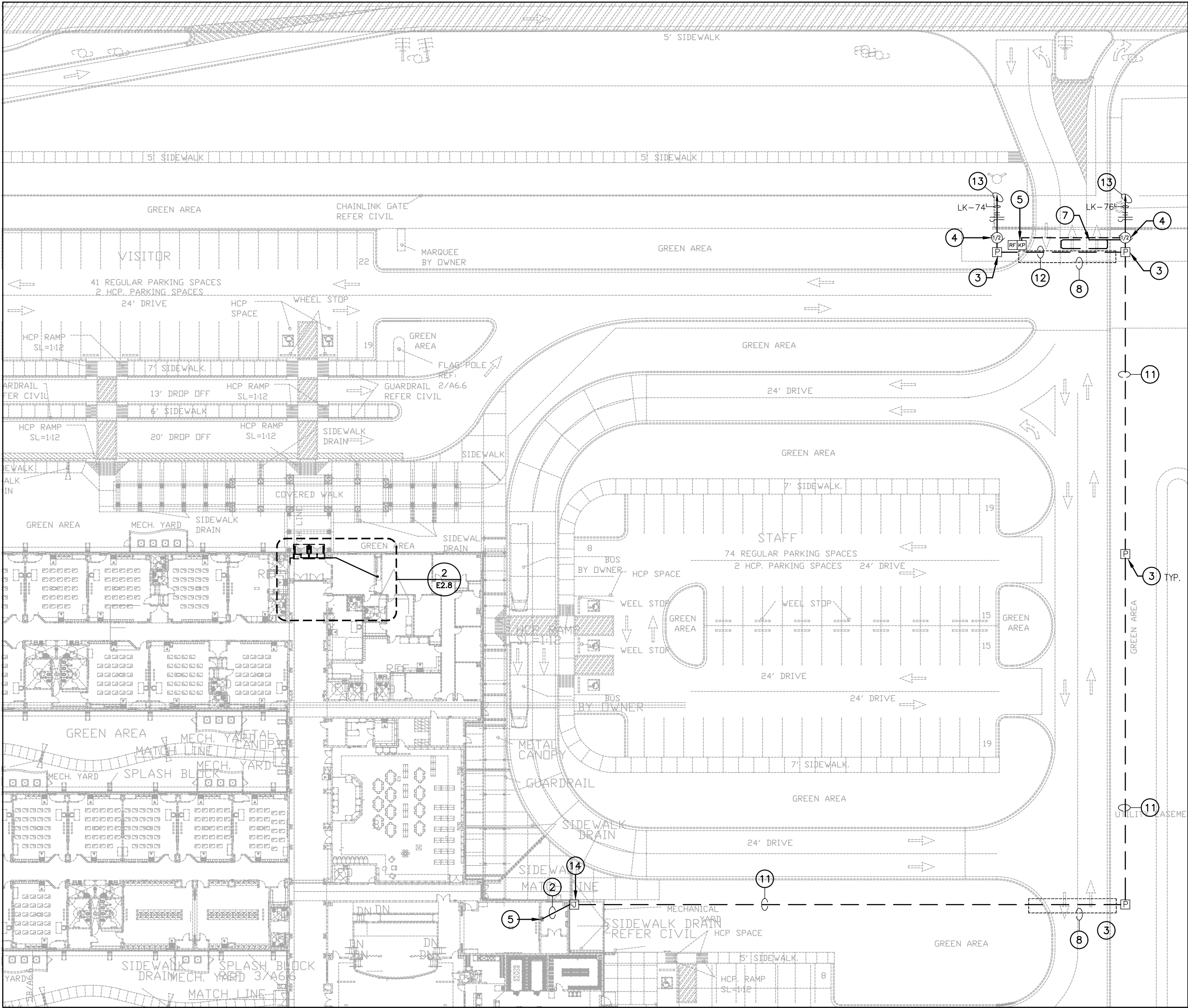
1. APPROXIMATE LOCATION OF EXISTING PANEL "L2". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
2. APPROXIMATE LOCATION OF EXISTING PANEL "F3". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION
3. ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARING CONSTRUCTION.
4. PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E01.
5. FURNISH AND INSTALL GRADE HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
6. FURNISH AND INSTALL ACCESS CONTROL KEYPAD LIFTMASTER KPR2000 FOR BUS LOOP CONNECTED TO RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
7. FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR TEACHER PARKING. MOUNT ONTO GOOSENECK PEDESTAL PD42 OR EQUAL.
8. FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
9. BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.

10. FURNISH AND INSTALL TOUCH-AT-EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VENDOR PRIOR TO BID. PROVIDE MODEL NUMBER APEX 2000 MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFERENCE TO DETAIL 8/9/1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COURTYARD. COORDINATE EXIST' LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VENDOR LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
- PROVIDE HARDWARE EQUAL TO:
- DET21037102A630 - PANIC EXIT DEVICE
3R00221037103A630 - 3R APEX PANIC EXIT DEVICES
12Z7E2626 - CYLINDER STANDARD BEST
RM0KR282689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS61 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS1-9ASSA A6LOY - EXIT BUTTON
11. FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
12. PROVIDE (1) 1" CONDUIT WITH (2) #10 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH (2) #8 AWG, (1) #10 AWG CU GND AND (1) 1" CONDUIT WITH PULL STRING.
13. PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
14. PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
15. PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

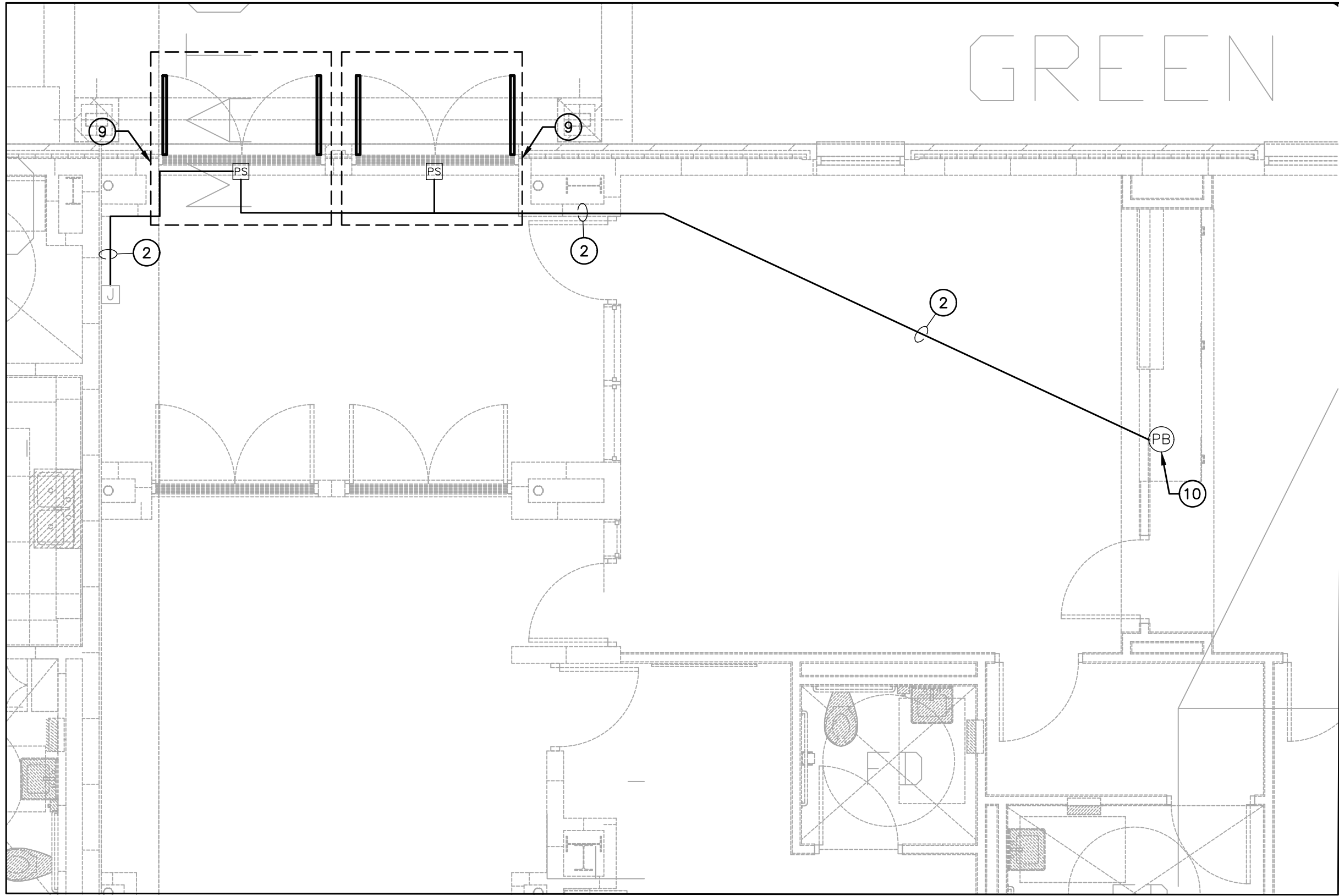
NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN



E2.7



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

GENERAL NOTES:

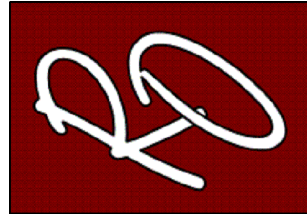
A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF NEW PANEL "LK". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR.COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. INTERCONNECT WITH KEYPAD SO THAT BOTH MOTORS OPEN AT THE SAME TIME WHEN CODE IS ENTERED.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
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- FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
- FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PH PRECISION ELECTRICAL. CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
R0DE210317024630 - PANIC EXIT DEVICE
3R0DE2103170304630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RMOKR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABL0Y - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE 2 RUNS OF (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
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- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.

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PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

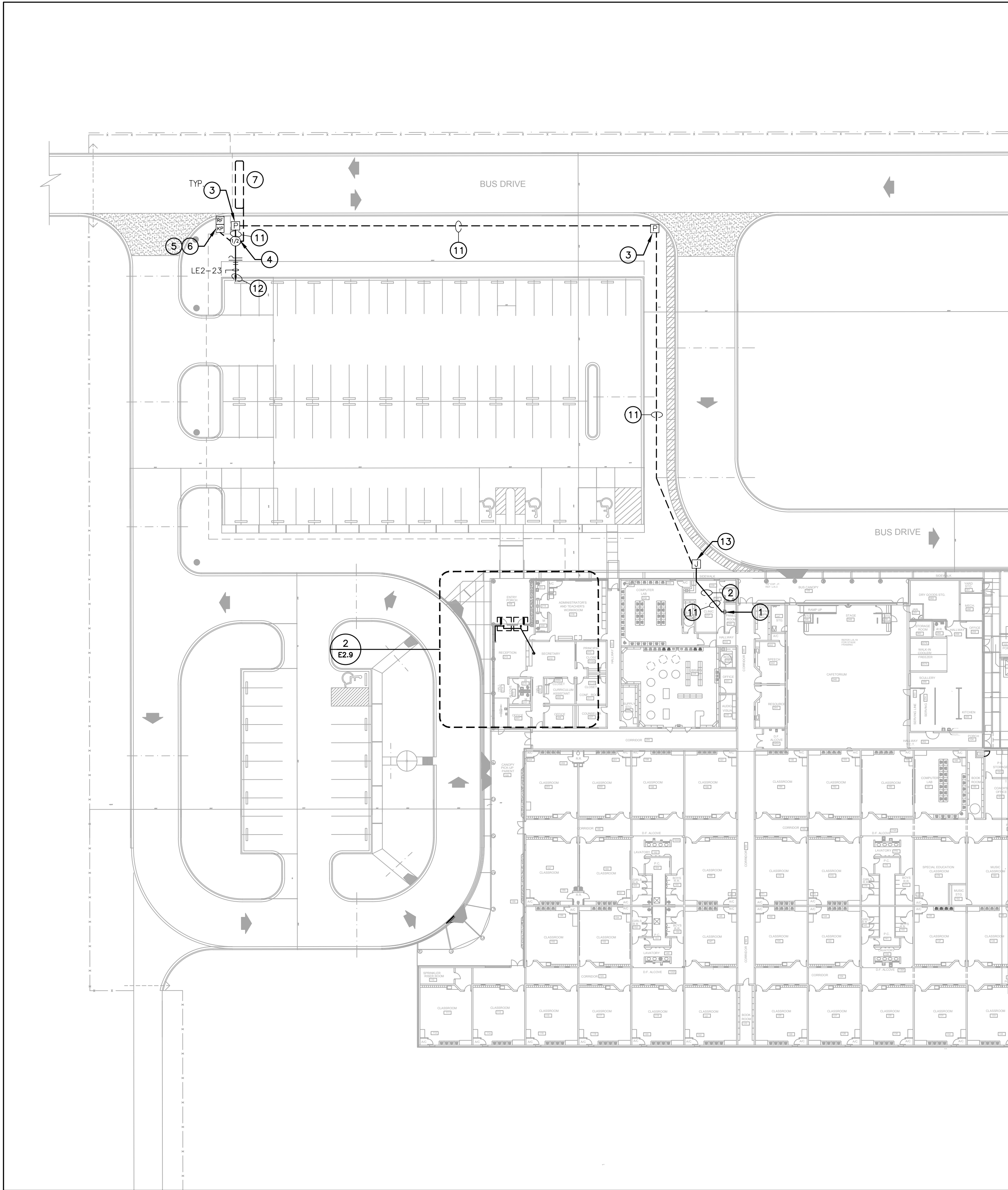
PROJECT LOCATION
FLOREZ-ZAPATA ELEMENTARY

NO.	DATE	DESCRIPTION

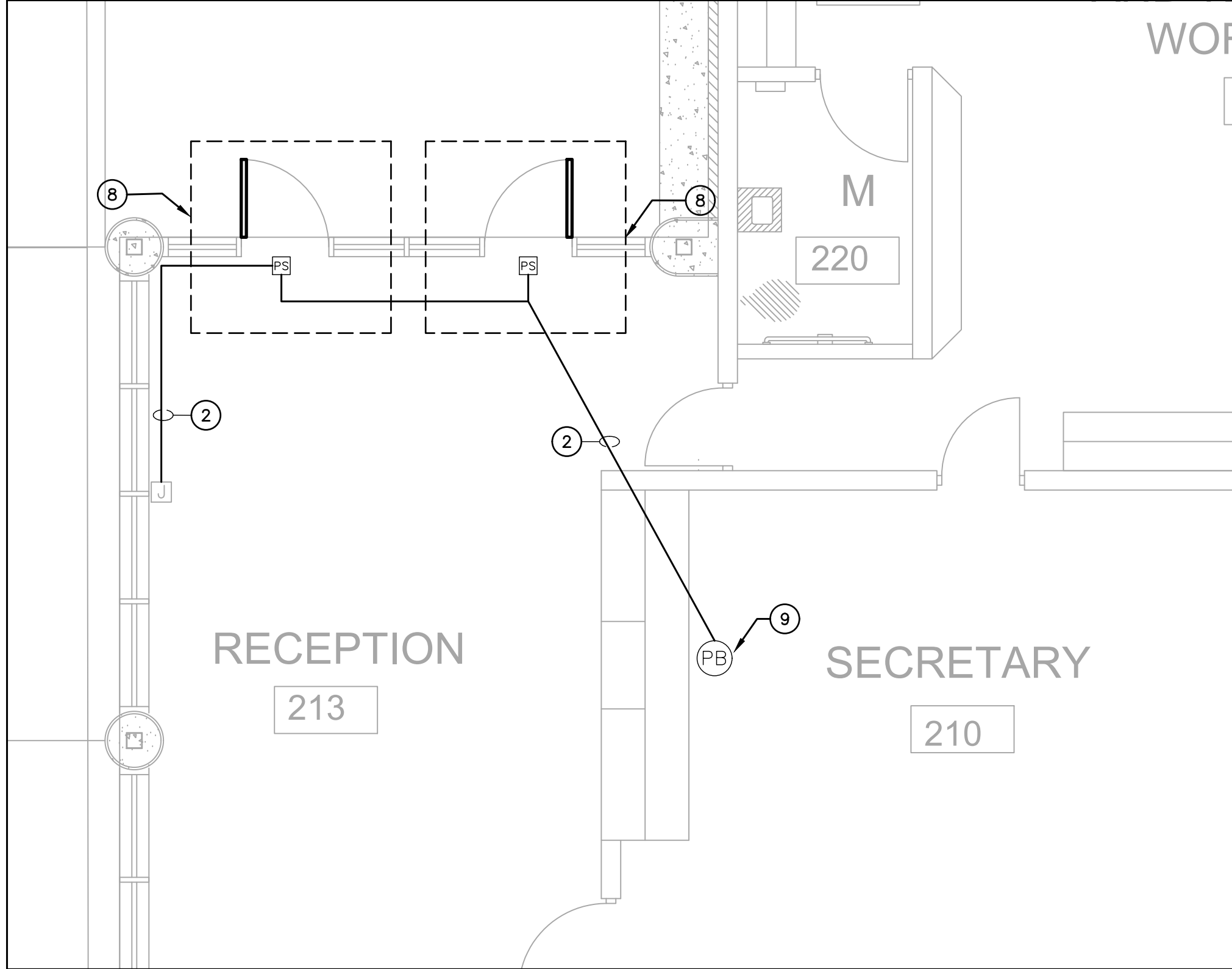
PROJECT NO.: 2024
DRAWN BY: L.J.H.
CHECKED BY: R.O.
SHEET TITLE:

SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T
E2.8



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

GENERAL NOTES:

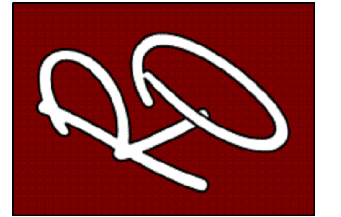
A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

E ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "LE2". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
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PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
VILLARREAL ELEMENTARY

PROJECT NAME

PROJECT LOCATION

NO.	DATE	DESCRIPTION

PROJECT NO.: 2024

DRAWN BY: L.J.H.

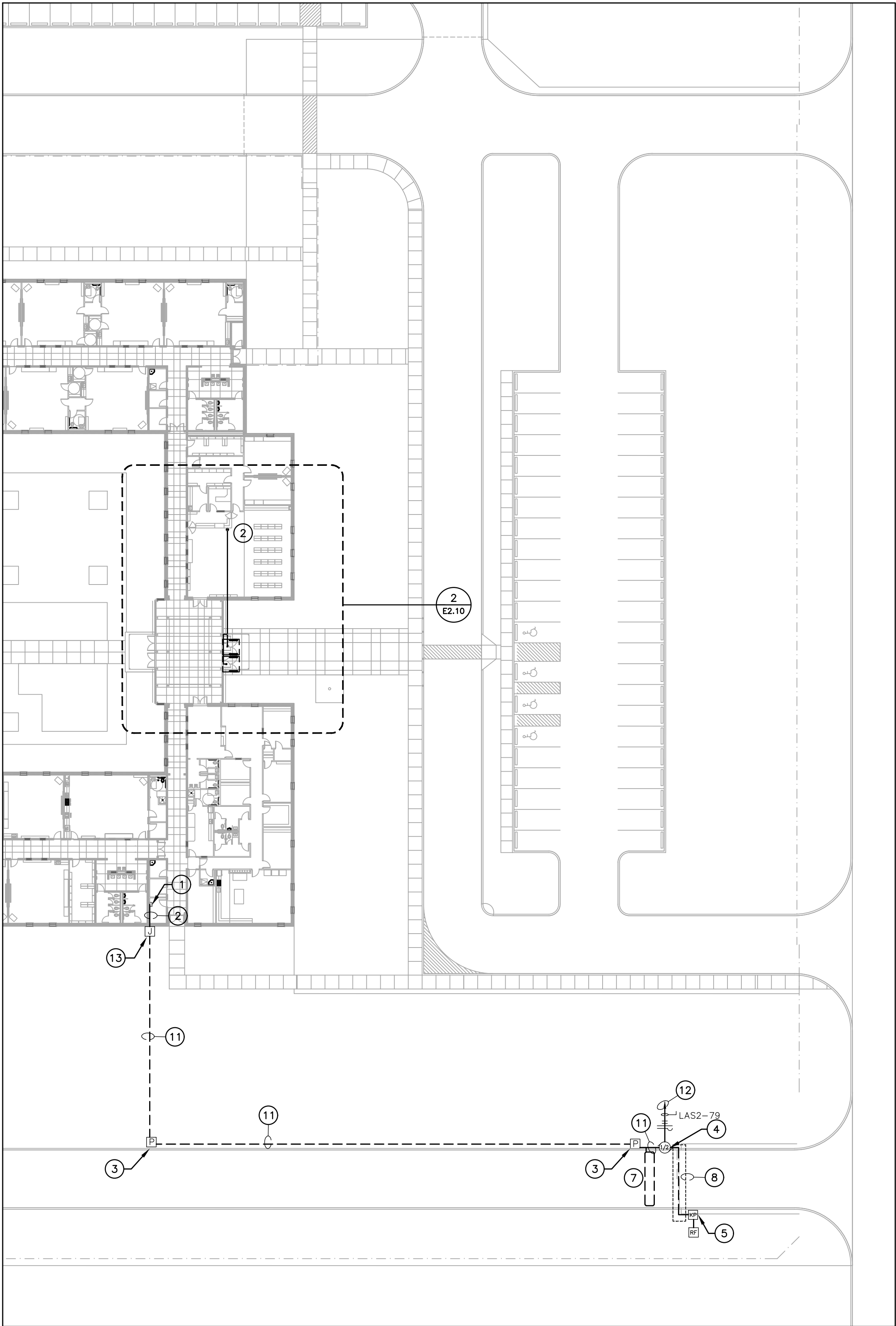
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SHEET TITLE:

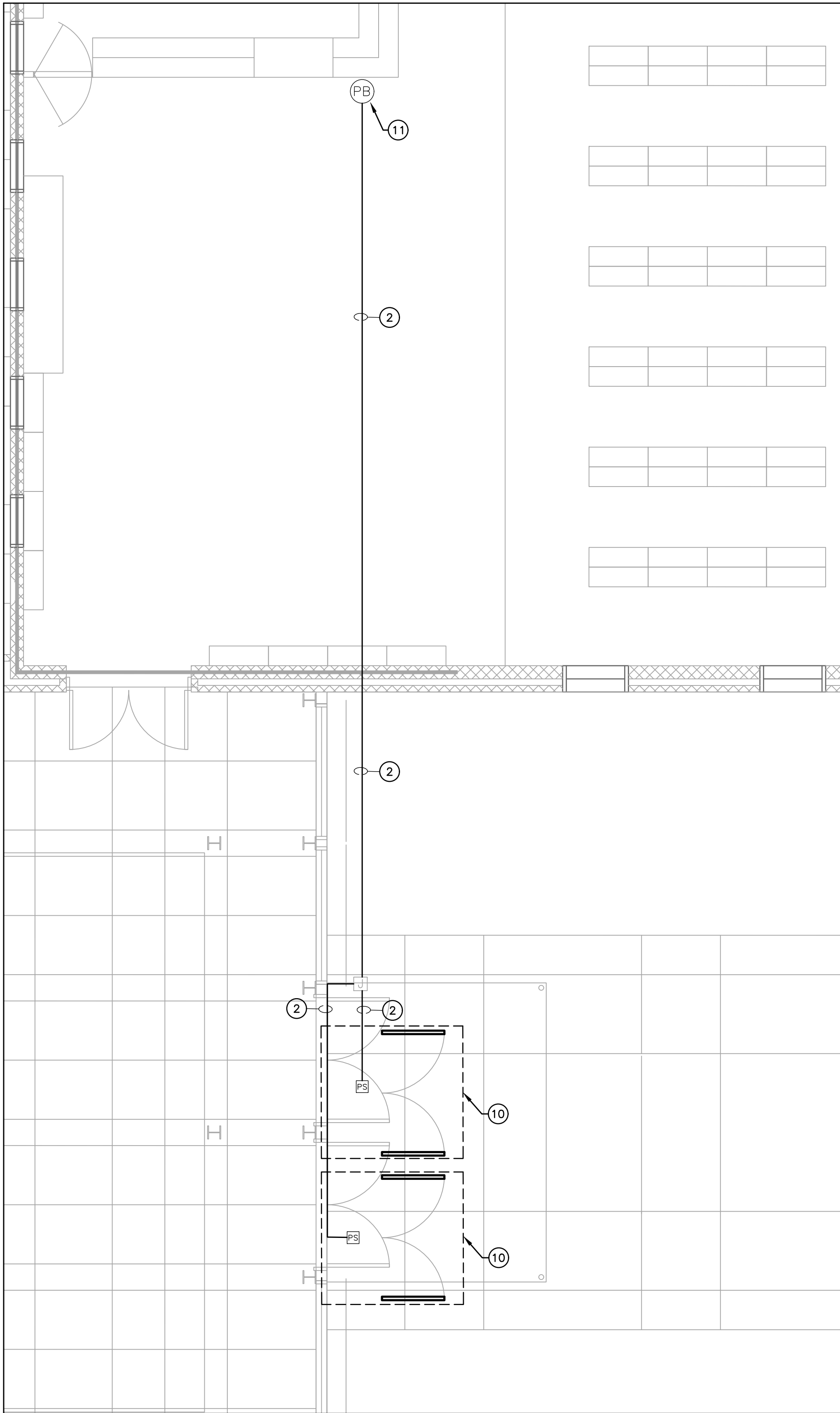
SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T

E2.9



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



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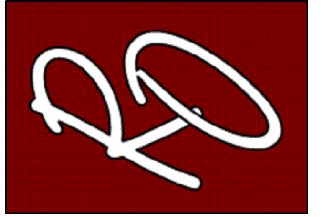
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KEYED NOTES:

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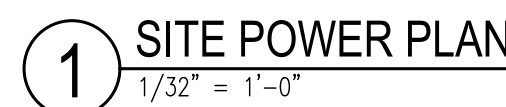
PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
AVILA ELEMENTARY

NO.	DATE	DESCRIPTION

PROJECT NO.: 2024
DRAWN BY: L.J.H.
CHECKED BY: R.O.
SHEET TITLE:

SITE ELECTRICAL
& ACCESS
CONTROL PLAN



NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN

ELECTRICAL SYMBOLS

MOTORS AND CONTROLS	
	SINGLE OR THREE PHASE MOTOR NUMBER INDICATES HORSE POWER
	ELECTRIC DUCT HEATER
	DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "N" DENOTES NON-FUSED "N3R" DENOTES NEMA 3R
	ENCLOSED CIRCUIT BREAKER- "200/3/150" DENOTES AMPERES/POLE/TRIP.
	MOTOR STARTER FURNISHED BY DIVISION 15 AND INSTALLED BY DIVISION 16.
	COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/3/15/#0" DENOTES AMPERES/POLES/FUSE/STARTER SIZE, "N" DENOTES NON-FUSED, FURNISHED BY DIVISION 15 AND INSTALLED BY DIVISION 16.
	VARIABLE FREQUENCY DRIVE PROVIDED BY DIVISION 15 AND INSTALLED BY DIVISION 16.
	EMERGENCY POWER OFF BUTTON.

RECEPTACLES AND OUTLETS

ALL RECEPTACLES SHALL BE MOUNTED 16" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.	
	SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V.
	DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. "EM" DENOTES EMERGENCY CIRCUIT. PROVIDE RED RECEPTACLE AND FACEPLATE. "GFI" DENOTES GROUND FAULT INTERRUPTER, "WP" DENOTES WEATHERPROOF, "IG" DENOTES ISOLATED GROUND, "TP" DENOTES SAFETY TYPE, (TAMPER PROOF) "DR" DENOTES DROPPED RECEPTACLE, "AC" DENOTES ABOVE COUNTER MOUNTING, SEE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT.
	DUPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
	DUPLEX WALL RECEPTACLE ON A CIRCUIT DEDICATED TO DATA PROCESSING, GRAY COLOR, PROVIDE ISOLATED GROUND TYPE RECEPTACLES WHERE NOTED.
	SPLIT WIRED RECEPTACLE. TOP RECEPTACLE SHALL BE SWITCHED ACCORDING TO PLANS, AND BOTTOM SHALL REMAIN UNSWITCHED.
	FOURPLEX (DOUBLE DUPLEX) WALL RECEPTACLE. NEMA 5-20R, 20A, 125V.
	FOURPLEX WALL RECEPTACLE ON EMERGENCY CIRCUIT, RED COLOR.
	SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED.
	FLUSH ELECTRICAL FLOOR OUTLET, "P" DENOTES POKE-THRU. "D" INDICATES DUPLEX RECEPTACLE, "R" INDICATES RED RECEPTACLE ON EMERGENCY POWER
	MULTI-OUTLET SURFACE RACEWAY. SEE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
	JUNCTION BOX (SQUARE)
	JUNCTION BOX
	DUPLEX RECEPTACLE WITH HOMERUN
	DUPLEX RECEPTACLE (PEDESTAL MOUNTED)
	TWO-GANG FLOOR OUTLET
	THREE-GANG FLOOR OUTLET
	POWER POLE
	DIRECT CONNECTION TO EQUIPMENT
	PULL BOX (OVER 4" SQUARE)
	TENANT LIGHTING JUNCTION BOX
	TENANT POWER JUNCTION BOX
	CLOCK RECEPTACLE TO BE MOUNTED 12" BELOW FINISHED CEILING. (2) DENOTES DOUBLE SIDED CLOCK, (1) SINGLE SIDED. NO NUMBER MEANS CLOCK TO MOUNTED WITH BACK SURFACE MOUNTED ON WALL

RACEWAYS AND WIRING	
	CAP AND STAKE
	CONDUIT CONCEALED IN WALL OR CEILING
	CONDUIT UNDERSLAB OR UNDERGROUND
	EMERGENCY CONDUIT
	EXPOSED CONDUIT
	UNDERGROUND CONDUIT, "DB" DENOTES DUCTBANK ENCASED IN CONCRETE
	OVERHEAD ELECTRIC PRIMARY UTILITY POWER LINE
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	HASH MARKS INDICATE NUMBER OF CONDUCTORS. LEFT TO RIGHT:PHASE/NEUTRAL/SWITCH LEG/GROUND/SOLATED GROUND. NO HASH MARKS INDICATES 2# 12, PLUS GROUND, UNLESS NOTED OTHERWISE.
	HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
	PARTIAL CIRCUIT HOMERUN TO PANEL.
	COMMUNICATIONS CONDUIT OR CABLE: "C" DENOTES MASTER CLOCK, "CA" DENOTES MASTER CLOCK, "CR" DENOTES CASH REGISTER "D" DENOTES DATA, "FA" DENOTES FIRE ALARM, "I" DENOTES INTERCOM, "OHE" DENOTES OVERHEAD ELECTRICAL LINE. "PA" DENOTES PAGING, "S" DENOTES SECURITY, "T" DENOTES TELEPHONE, "V" DENOTES VIDEO.
	TELECOMMUNICATIONS CABLE TRAY TO BE CONCEALED ABOVE ACCESSABLE CEILING.

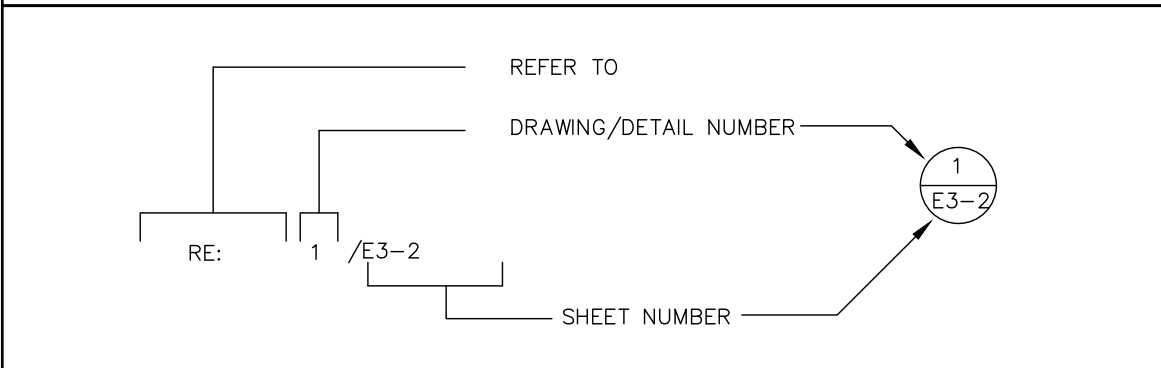
ELECTRICAL EQUIPMENT

	DISTRIBUTION PANEL
	SWITCHBOARD, MAIN DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
	PANELBOARD (FLUSH/SURFACE MOUNT)
	FLOOR MOUNTED DRY-TYPE TRANSFORMER

COMMUNICATIONS

ALL RECEPTACLES SHALL BE MOUNTED 16" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE. THE FOLLOWING NOTATIONS REFER TO ALL COMMUNICATIONS OUTLETS: "FAX" DENOTES OUTLET DEDICATED FOR A FAX. "W" DENOTES WALL PHONE SHALL BE MOUNTED AT 42" A.F.F. "PAY" DENOTES PAY PHONE SHALL BE MOUNTED 42" A.F.F.	
	TELEPHONE WALL OUTLET.
	DATA WALL OUTLET.
	VOICE/DATA OUTLET
	FLUSH TELEPHONE FLOOR OUTLET, "P" DENOTES POKE-THRU
	FLUSH DATA FLOOR OUTLET, "P" DENOTES POKE-THRU
	FLUSH VOICE/DATA FLOOR OUTLET, "P" DENOTES POKE-THRU
	SCHOOL INTERCOMMUNICATION SYSTEM DESKSET.
	SCHOOL INTERCOMMUNICATION SYSTEM HANDSET.
	TELEVISION OUTLET 1 GANG JUNCTION BOX WITH ONE FEMALE COAX BARREL CONNECTOR MOUNTED IN SINGLE GANG S.S. COVER PLATE.
	MICROPHONE FLOOR OUTLET, "W" INDICATES WALL MOUNTED
	CEILING MOUNTED SPEAKER. "VC" INDICATES VOLUME CONTROL ON SPEAKER.
	WALL MOUNTED SPEAKER.

DRAWING/DETAIL REFERENCE KEY



GENERAL NOTES

A. NOT ALL SYMBOLS SHOWN ON THIS SYMBOL LIST ARE USED IN THE CONTRACT DOCUMENTS.

MISCELLANEOUS

	SHADED SYMBOLS INDICATE EXISTING DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
	INDICATES WALL-MOUNTED WHEN ATTACHED TO ANY SYMBOL
	DRAWING NOTE REFERENCE
	STARTER/DISCONNECT SCHEDULE REFERENCE
	FEEDER SCHEDULE REFERENCE
	LIGHTING CONTROL
	TIME SWITCH
	PHOTOCELL
	PUSH BUTTON
	TIMECLOCK
	RELAY

FIRE ALARM

	WATER FLOW SWITCH
	SUPERVISORY SWITCH
	SMOKE DETECTOR - "D" INDICATES DUCT TYPE
	HEAT DETECTOR
	BEAM DETECTOR TRANSMITTER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
	BEAM DETECTOR RECEIVER, HIGH IN CEILING WALL DIRECT LINE OF SIGHT.
	SPEAKER/VISUAL +80" A.F.F. - 15/75cd UNLESS NOTED OTHERWISE.
	MAGNETIC DOOR HOLDER
	AUXILIARY CONTROL RELAY
	FIRE ALARM PULL STATION +42" AFF
	FIREMAN'S TELEPHONE JACK +42" AFF
	AUDIO VISUAL FIRE ALARM HORN +80" AFF
	AUDIO FIRE ALARM HORN +80" AFF
	VISUAL FIRE ALARM (STROBE) +80" AFF
	FIRE ALARM CONTROL PANEL
	REMOTE FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM VOICE EVACUATION PANEL
	FIRE ALARM SPEAKER / WALL MOUNTED
	MINI AUDIO FIRE ALARM HORN +80" AFF
	MINI AUDIO/VISUAL FIRE ALARM HORN +80" AFF
	FIRE FIGHTER HANDSET
	REMOTE POWER SUPPLY FOR AUDIO/VISUAL FIRE ALARM DEVICES.
	FIRE SMOKE DAMPER
	VISUAL FIRE ALARM STROBE, CEILING MOUNTED
	AUDIO VISUAL FIRE ALARM HORN-CEILING MOUNTED
	FIRE ALARM SPEAKER / VISUAL - CEILING MOUNTED
	POWER SUPPLY

SWITCHES

ALL SWITCHES SHALL BE MOUNTED AT 42" ABOVE FINISHED FLOOR TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.	
	SWITCH, SPST, 20A, 120/277V.
	SWITCH, 20A, 120/277V: "2" DENOTES DPST, "3" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY, "K" DENOTES KEY SWITCH, "P" DENOTES PILOT LIGHT, "ST" DENOTES SPRING WOUND TIMER. "R" DENOTES RED "F" FAN SPEED CONTROLLER "OC" OCCUPANCY SENSOR "L" DENOTES LOCKING SWITCH
	SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT.
	DIMMER CONTROL SWITCH, 600 WATT UNLESS OTHERWISE NOTED.
	THREE-WAY KEY SWITCH, 20A, 120/277V.
	WALL MOUNTED SWITCH TO CONTROL MOTORIZED PROJECTION SCREENS.
	MOTOR RATED SWITCH WITH THERMAL OVERLOADS
	MOTOR RATED TOGGLE SWITCH
	CEILING MOUNTED OCCUPANCY SENSOR
	KEY PAD FOR GATE
	RFID READER
	PUSH BUTTON

GENERAL NOTES

GENERAL ELECTRICAL NOTES (APPLIES TO ALL POWER SHEETS):

- PROPOSED CONDUIT ROUTING IS DIAGRAMMATIC. CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID. CLARIFICATIONS CAN BE REQUESTED VIA RFI PRIOR TO BID.
- CONTRACTOR MUST MARK ALL UTILITIES PRIOR TO DIGGING. UTILITIES DAMAGED DURING CONSTRUCTION MUST BE REPAIRED IN CONFORMANCE TO OWNER'S REQUIREMENTS.
- COORDINATE EXACT LOCATION OF GATE MOTORS WITH OWNER/ENGINEER BY MEANS OF SITE VISIT AND COORDINATION DRAWINGS.
- CONTRACTOR MUST AVOID DISRUPTIONS TO INSTRUCTION DURING CONSTRUCTION.
- SEE ALL OTHER PLANS FOR ADDITIONAL DEVICES. SOME POWER CIRCUITING MAY BE ON OTHER PLANS.
- CONTRACTOR TO PROVIDE AS-BUILTS.
- MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 GROUND IN 3/4"CONDUIT FOR INDIVIDUAL CIRCUITS, 3/4"CONDUIT FOR MULTIPLE CIRCUITS. ALL CONDUCTORS SHALL BE 75 DEGREE (MINIMUM) COPPER THHN, COLOR CODED AS PER NEC AND LOCAL AMENDMENTS WITH SIZE, TEMPERATURE, AND VOLTAGE PERMANENTLY PRINTED ON THE JACKET. ALL JOINTS SHALL BE MADE UP USING SELF LOCKING, TWIST-ON, COLOR CODED, SQUARE WIRE SPRING GRAB, LONG SKIRT, WIRE CONNECTORS WITH SWEPT WINGS.
- PROVIDE #10 AWG MIN NEUTRAL FOR ALL MUTLI-WIRE BRANCH CIRCUITS AND PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS AS REQUIRED BY NEC 210.4
- CONDUCTOR SIZES INDICATED ASSUME NO MORE THAN (3) SINGLE POLE BRANCH CIRCUITS IN EACH CONDUIT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DE-RATE CONDUCTORS PER NEC TABLE 310.15(B)(2)(a) FOR CONDUITS WITH MORE THAN (3) CURRENT "CARRYING CONDUCTORS". THE NEUTRAL CONDUCTOR SHALL BE CONSIDERED "CURRENT CARRYING" FOR ALL BRANCH CIRCUITS SERVING MORE THAN (4) COMPUTERS.
- REFER TO VOLTAGE DROP FEEDER SCHEDULE FOR BRANCH CIRCUITS EXCEEDING 100' IN LENGTH.
- ALL EQUIPMENT SHALL HAVE A LOCAL DISCONNECTING MEANS, EITHER CORDED PLUG AND RECEPTACLE OR SWITCHED DISCONNECT. VERIFY FROM EQUIPMENT SUBMITTED OR RELOCATED IF DIRECT CONNECT OR RECEPTACLE. IF DIRECT CONNECT, PROVIDE SWITCH AS PER NEC OTHERWISE, PROVIDE RECEPTACLE, CORD PLUG AS REQUIRED BY EQUIPMENT SUBMITTAL.
- FIRESTOP ALL CONDUIT PENETRATIONS IN RATED WALLS. SEE ARCHITECTURAL FOR WALL RATINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO SHEET ROCK AND REPAIR.
- CONDUITS ABOVE CEILING SHALL BE ROUTED ALONG WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR.
- PROVIDE FIRE RATED SLEEVES IN ALL FLOOR PENETRATIONS.
- PROVIDE NEW 20A/1P BREAKER FOR EACH MOTOR IN EXISTING PANEL.
- TAG AND IDENTIFY ALL CABLE RUNS IN ALL JUNCTION BOXES.
- CONTRACTOR SHALL TEST TO ENSURE ALL MOTORS & ACCESS CONTROL FEATURES ARE WORKING PROPERLY TOGETHER WITH A WITNESS REPRESENTATIVE FROM THE OWNER.

GENERAL NOTES SPECIAL SYSTEMS (APPLIES TO ALL SPECIAL SYSTEMS SHEETS):

- CONTRACTOR SHALL BE RESPONSIBLE FOR REFERRING TO ALL OTHER PLANS FOR ANY ADDITIONAL SPECIAL SYSTEM DEVICES.
- ALL CABLING TO BE SUPPORTED BY J-HOOKS WHEN NOT IN CONDUIT OR CABLE TRAY. DO NOT STRAP TO STRUCTURE. SEPARATE CABLING. PROVIDE SEPARATE J-HOOKS FOR DATA, CONTROLS, SECURITY, AND FIRE ALARM IF NOT IN CONDUIT. TIE WRAP CABLING TOGETHER EVERY 4 FEET. PROVIDE SERVICE LOOPS IN CABLING, TIE WRAPPED TOGETHER. SERVICE LOOP SHALL BE 18 INCHES MINIMUM.
- PROVIDE CONDUIT SLEEVES THROUGH WALLS. ALL CONDUITS SHALL HAVE NYLON BUSHINGS ON THE ENDS. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS UNDER TWO (2) INCHES. PROVIDE MULE TAPE IN ALL EMPTY CONDUITS TWO (2) INCHES AND LARGER OR ANY CONDUIT RUNS LONGER THAN 100 FEET WITHOUT INTERMEDIATE PULL BOXES. SLEEVES LESS THAN 36 INCHES DO NOT REQUIRE PULL STRINGS.
- ALL CABLING SHALL BE PLENUM RATED. NO EXCEPTIONS.
- PROVIDE FIRE RATED SLEEVES WITH INTUMESCENT FILL IN ALL FLOOR PENETRATIONS.
- PROVIDE COMBINATION DATA AND POWER PLATES IN SPLIT BOXES.
- CONTRACTOR TO PROVIDE MATERIAL AND LABOR TO MILL EXISTING DOORS/MULLING FOR INSTALLATION OF WIRING, AND ALL DOOR TOUCHBAR EXIT DEVICES.
- ALL CABLING AT DOORS SHALL BE CONCEALED WITHIN DOOR MULLION OR WALLS. NO SURFACE MOUNTED CABLING OR DONDUCT SHALL BE ALLOWED.



PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
GROUP 3
ELEMENTARY SCHOOLS

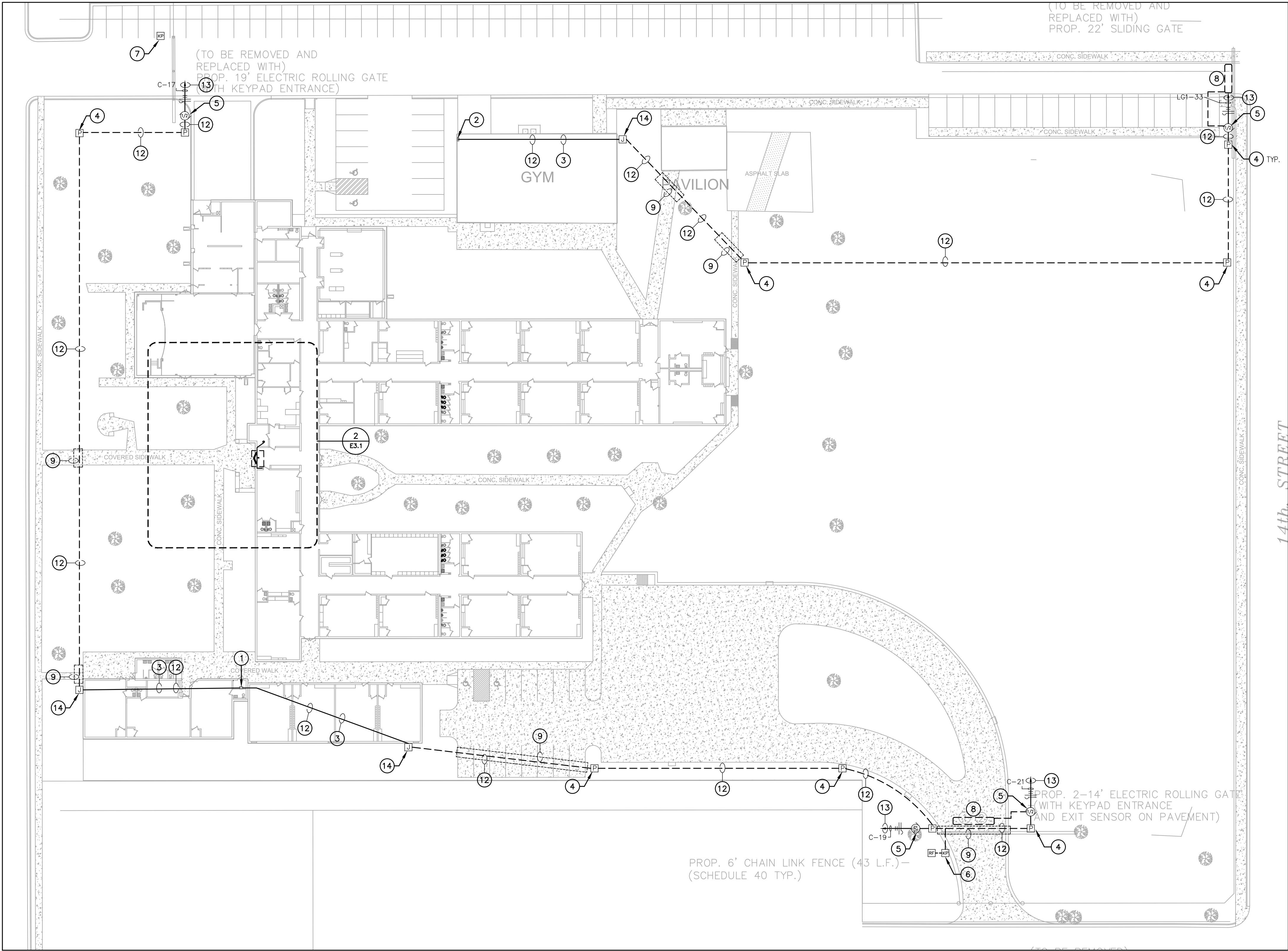
DESCRIPTION	DATE	NO.

PROJECT NO.: 2024
DRAWN BY: L.J.H.
CHECKED BY: R.O.
SHEET TITLE:

ELECTRICAL
LEGEND &
GENERAL NOTES

S H E E T

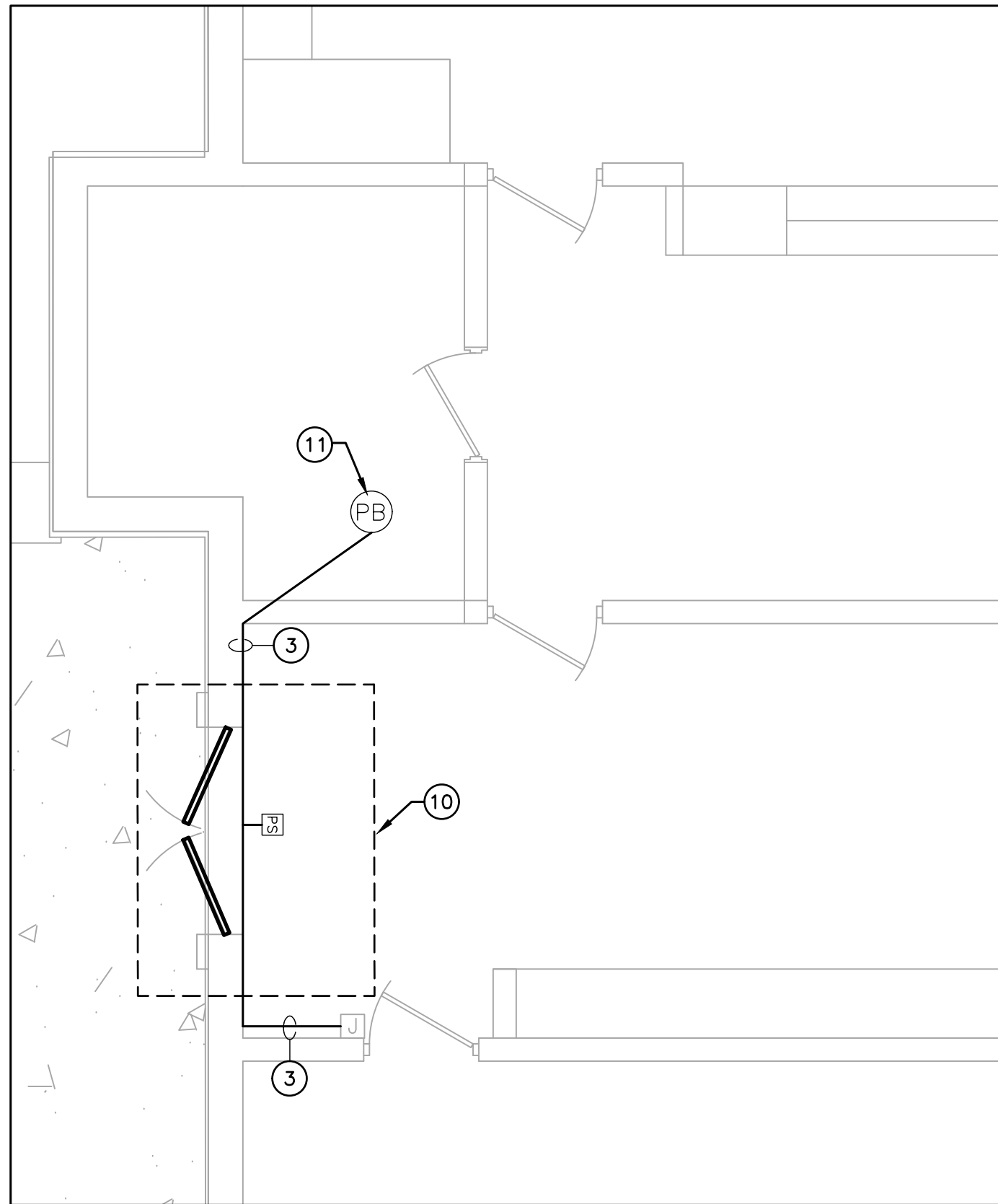
E0.0



1 ELECTRICAL SITE PLAN
1/32" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.



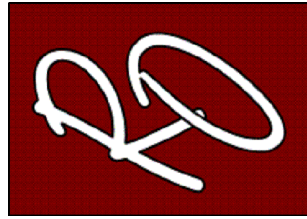
2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

3 ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF NEW PANEL "C". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- APPROXIMATE LOCATION OF NEW PANEL "LG1". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. INTERCONNECT WITH KEYPAD SO THAT BOTH MOTORS OPEN AT THE SAME TIME WHEN CODE IS ENTERED.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/D.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
- FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR TEACHER PARKING. MOUNT ONTO GOOSENECK PEDESTAL PED42 OR EQUAL.
- FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
- FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
RDE21031702A630 - PANIC EXIT DEVICE
3RDE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RMOKR22689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.

ENGINEERING, PLLC
MEP ENGINEERS & CONSTRUCTION MANAGERS
2705 E. Davis Rd., Suite A
Edinburg, Texas 78540
TBPE Firm Registration No. 12179
www.ro-engineering.com



PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
JEFFERSON ELEMENTARY

PROJECT NAME	DESCRIPTION	DATE	NO.

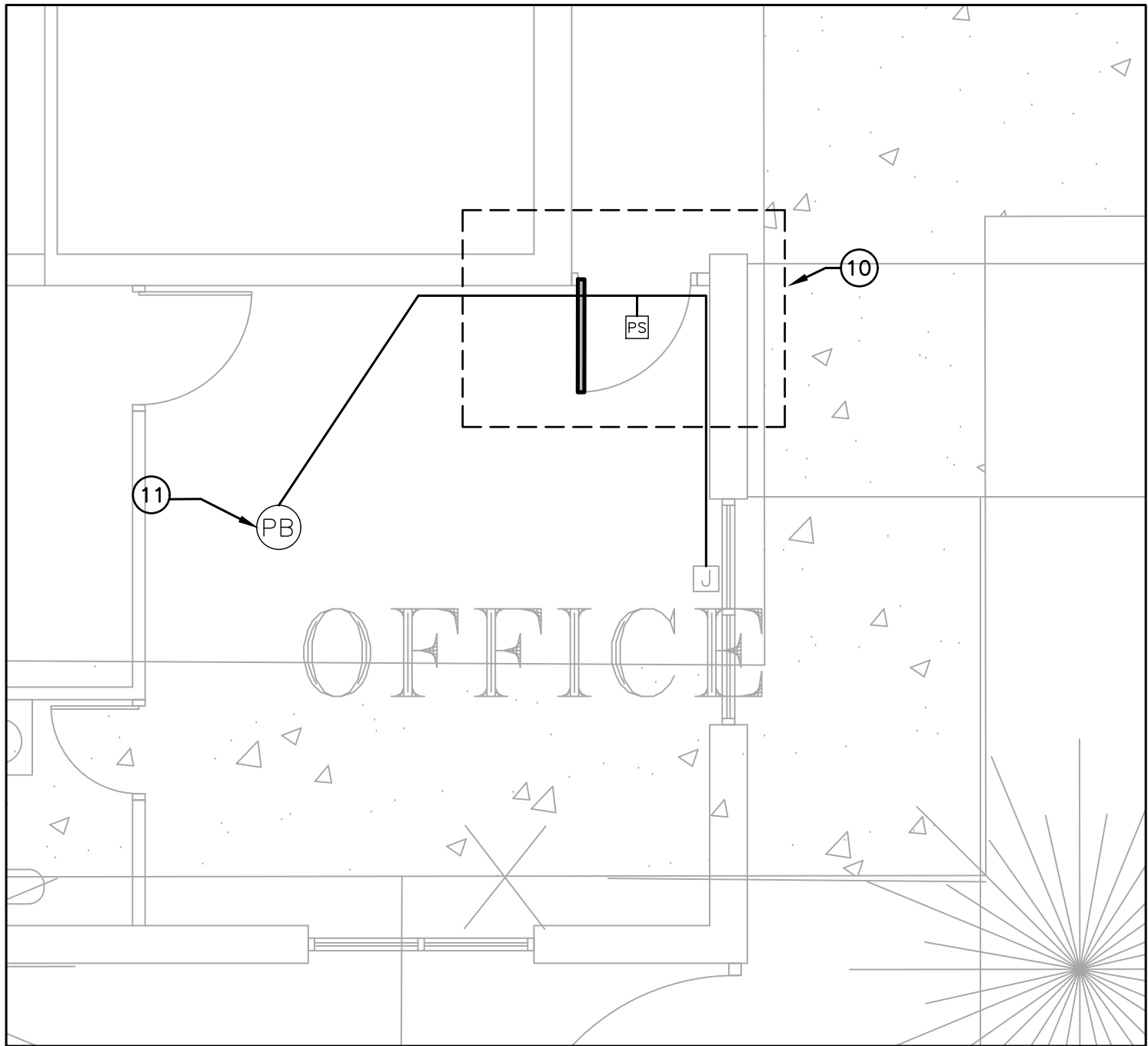
PROJECT NO.: 2024
DRAWN BY: L.J.H
CHECKED BY: R.O.
SHEET TITLE:

SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T
E3.1



1 ELECTRICAL SITE PLAN
1/64" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

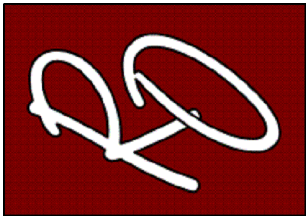
GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "K". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING PANEL "LP". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
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- FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR TEACHER PARKING. MOUNT ONTO GOOSENECK PEDESTAL PED42 OR EQUAL.
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PROVIDE HARDWARE EQUAL TO:
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12E72626 - CYLINDER STANDARD BEST
RMOKR822689 - RM REMOVABLE MULLION
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PS161 - 6 OUTPUT POWER DUSTRIUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
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- PROVIDE (1) 1" CONDUIT WITH (2) #10 AWG, (1) #12 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING.
- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
FREDDY GONZALEZ
ELEMENTARY

NO.	DATE	DESCRIPTION
1	11/19/20	

PROJECT NO.: 2024

DRAWN BY: L.J.H.

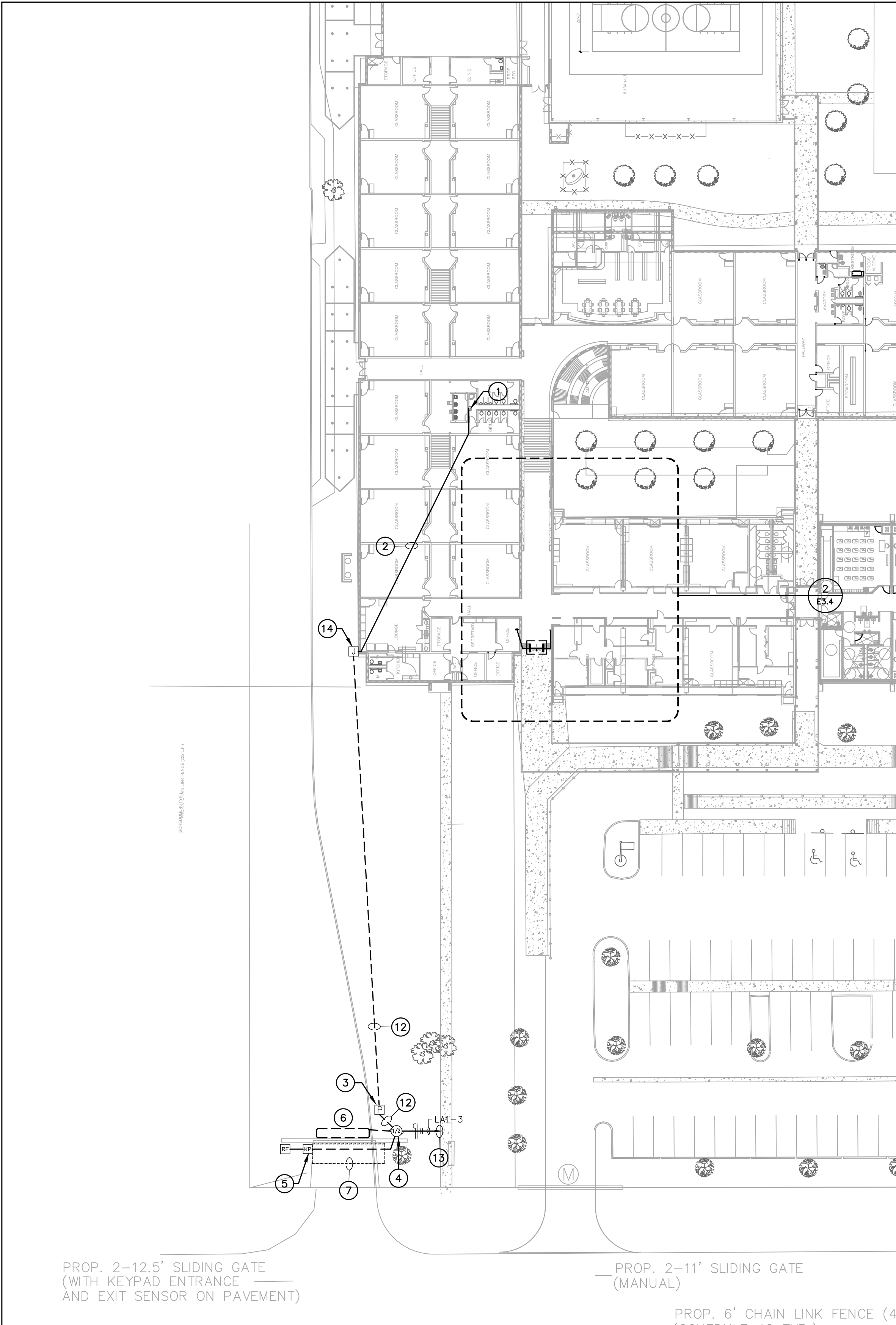
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SHEET TITLE:

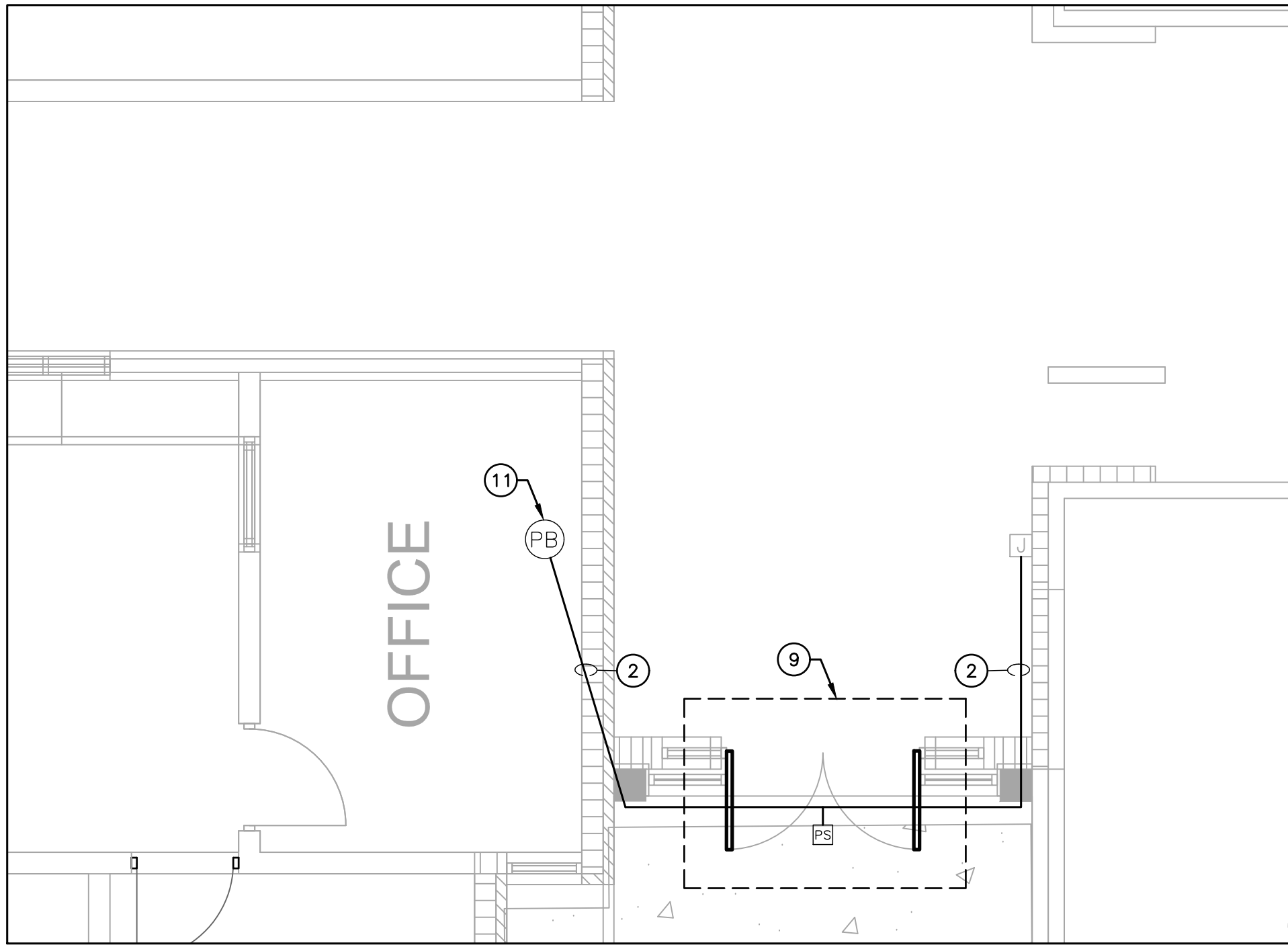
SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T

E3.3



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

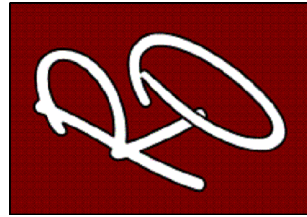
GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECETTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "L41". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
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- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
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PROVIDE HARDWARE EQUAL TO:
R0DE21031702A630 - PANIC EXIT DEVICE
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12E72626 - CYLINDER STANDARD BEST
RMOKR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
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- PROVIDE (1) 1" CONDUIT WITH (2) #8 AWG, (1) #10 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING.
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- PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
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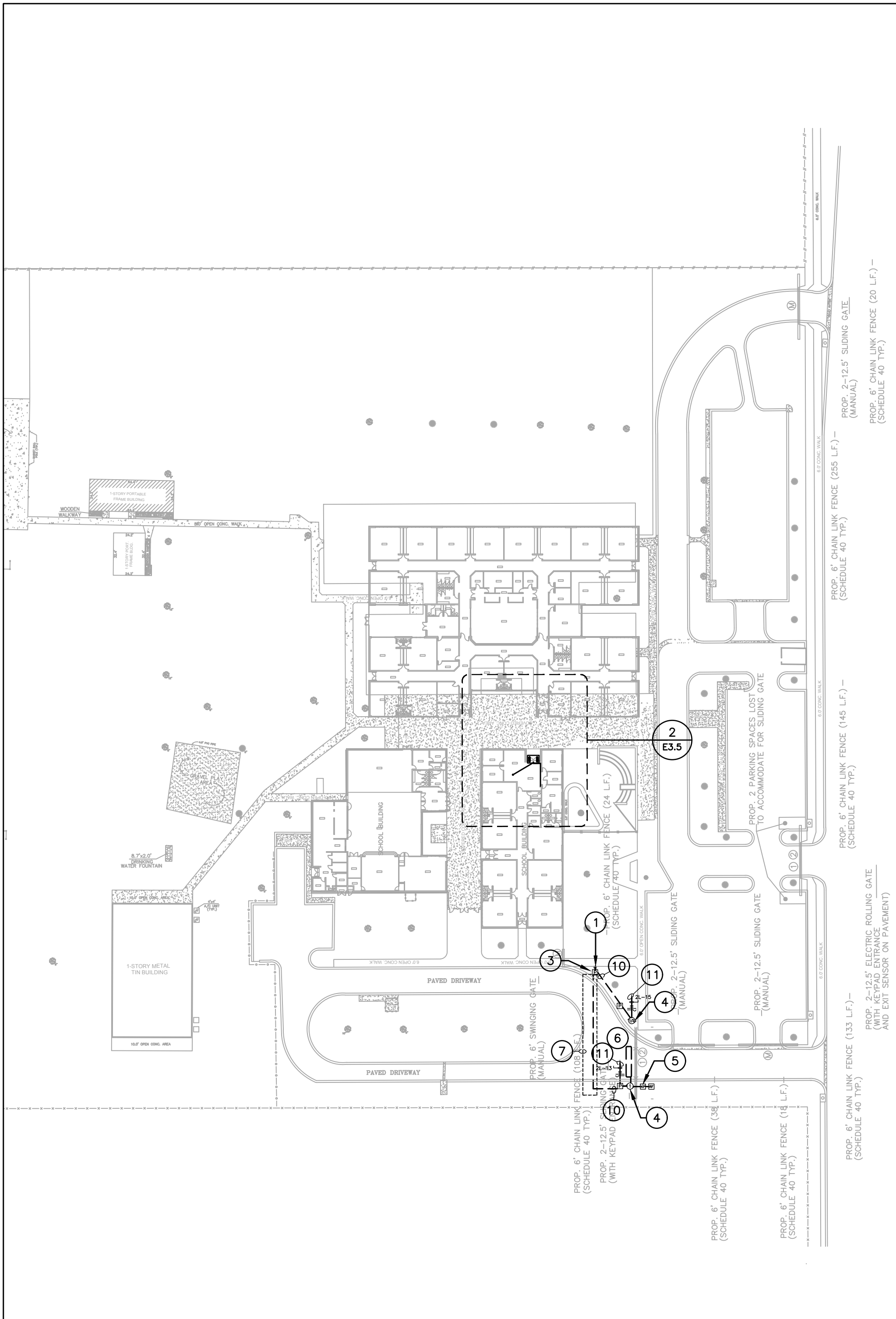
PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
CANTERBURY ELEMENTARY

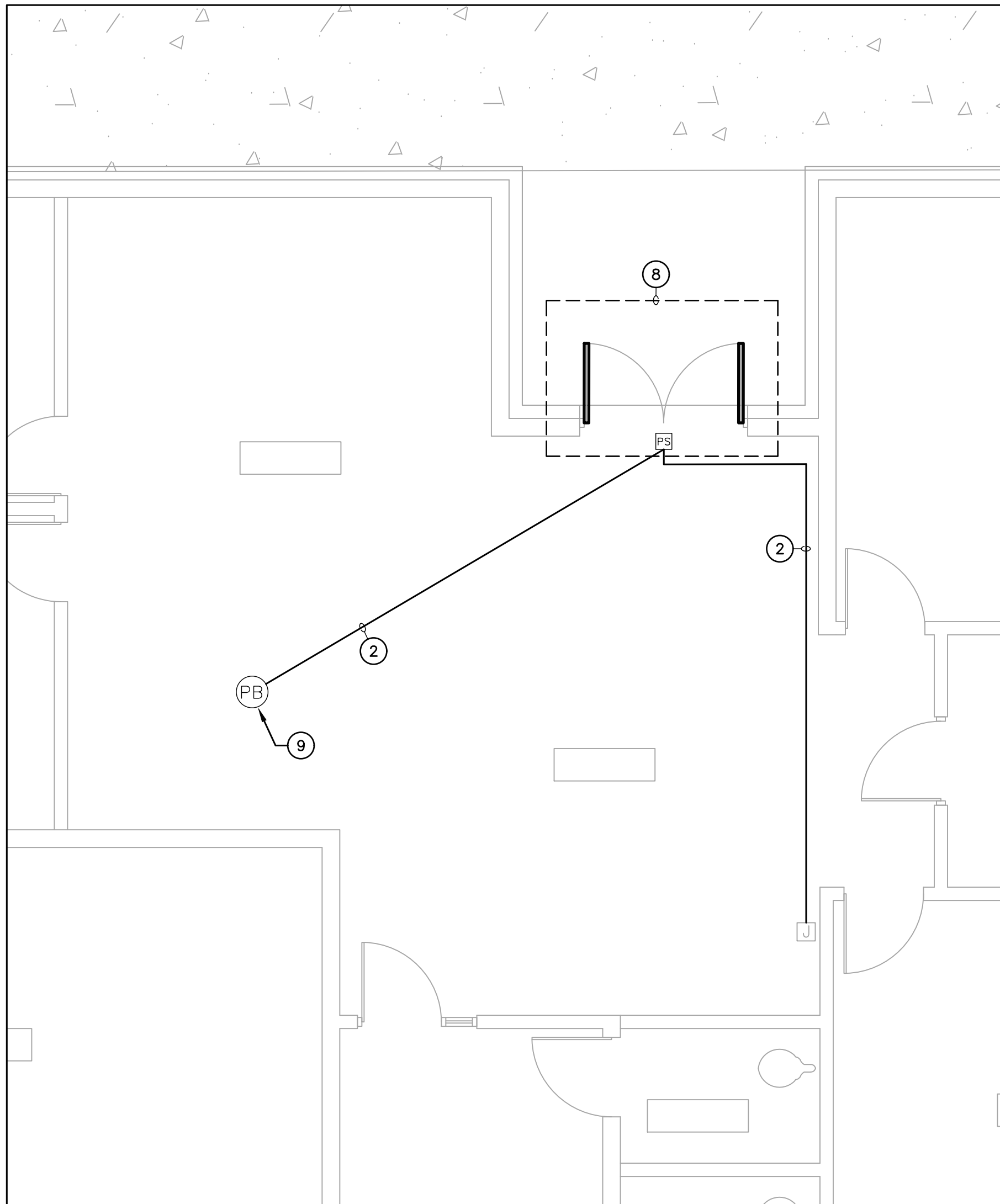
NO.	DATE	DESCRIPTION

PROJECT NO.: 2024
DRAWN BY: L.J.H.
CHECKED BY: R.O.
SHEET TITLE:

SITE ELECTRICAL
& ACCESS
CONTROL PLAN



1 SITE ELECTRICAL PLAN
1/64" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

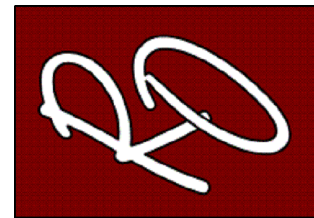
GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "2L".VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
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- PROVIDE (1) 1" CONDUIT WITH (2) #10 AWG, (1) #12 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING.
- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
DE LA VINA ELEMENTARY

PROJECT NAME

PROJECT LOCATION

DESCRIPTION

DATE

NO.

PROJECT NO.: 2024

DRAWN BY: L.J.H.

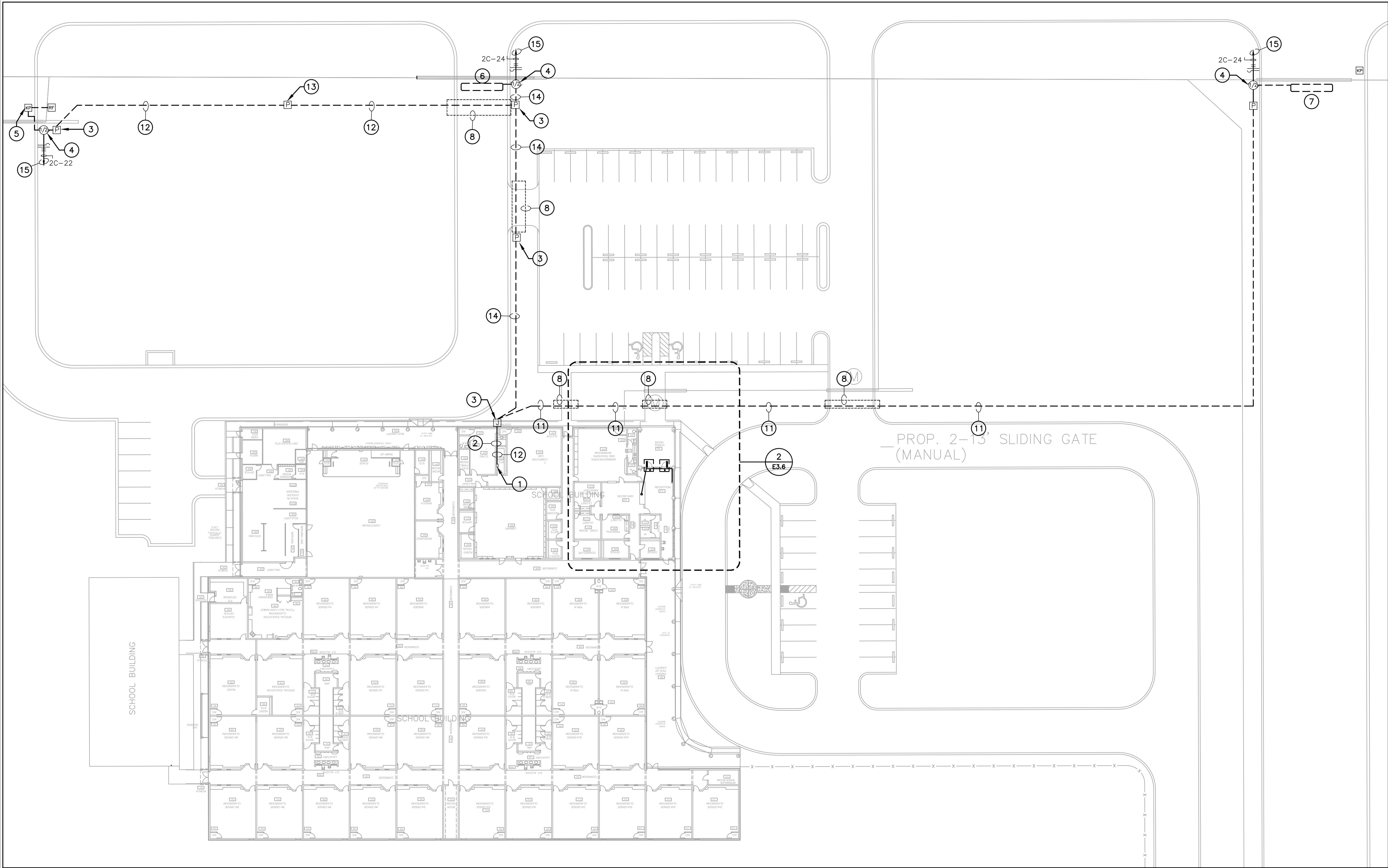
CHECKED BY: R.O.

SHEET TITLE:

SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T

E3.5



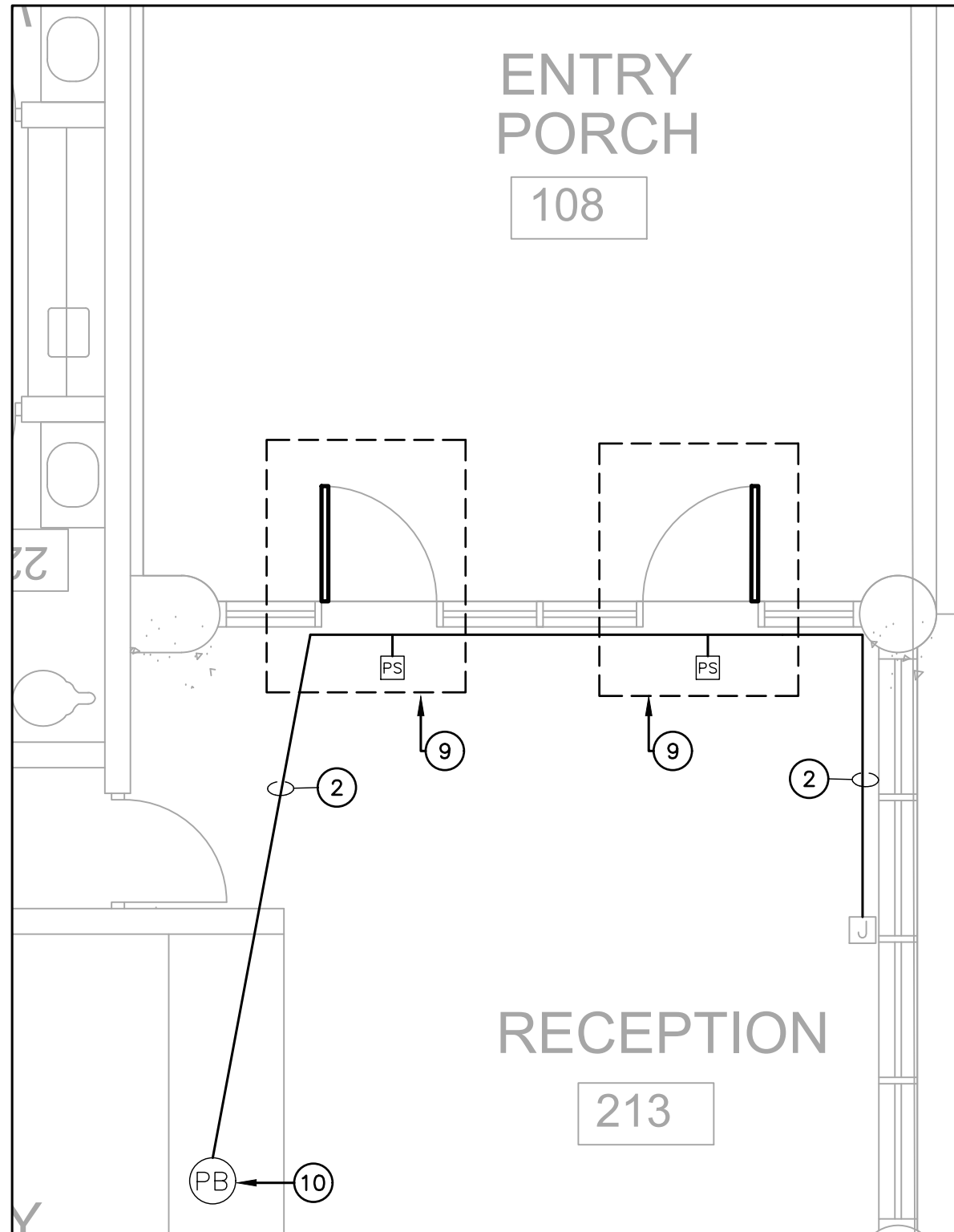
1 SITE ELECTRICAL PLAN

1/32" = 1'-0"

GENERAL NOTES:

A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



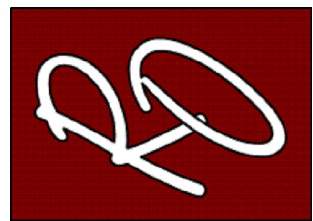
2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS

1/4" = 1'-0"

ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANEL "2C". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E.0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
- FURNISH AND INSTALL WIRELESS KEYPAD KPW250 FOR TEACHER PARKING. MOUNT ONTO GOOSENECK PEDESTAL PED42 OR EQUAL.
- FURNISH AND INSTALL FREE WIRE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
- FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E.0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE. PROVIDE HARDWARE EQUAL TO:
R0DE21031702A630 - PANIC EXIT DEVICE
JRODE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72826 - CYLINDER STANDARD BEST
RMOKR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE 2 RUNS OF (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING AND PROVIDE (1) 1" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE (1) 1" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING AND PROVIDE (1) 1" CONDUIT WITH (2) #6 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

ENGINEERING, PLLC
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Edinburg, Texas 78540
TBP Firm Registration No. 12179
www.ro-engineering.com



SECURED ENTRANCES
ELECTRIC GATES

CAVAZOS ELEMENTARY

PROJECT NAME

PROJECT LOCATION

DESCRIPTION

DATE

NO.

PROJECT NO.: 2024

DRAWN BY: L.J.H.

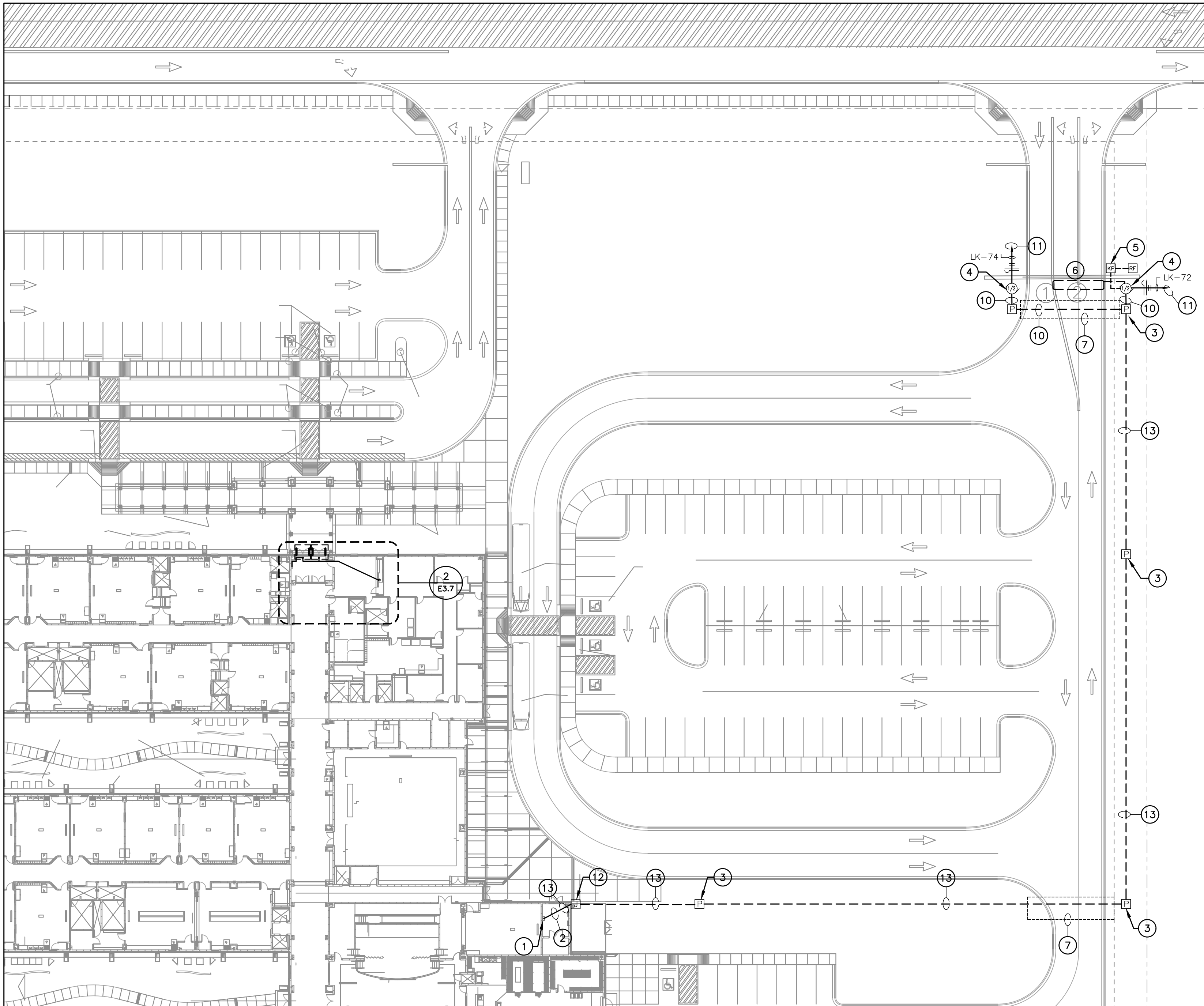
CHECKED BY: R.O.

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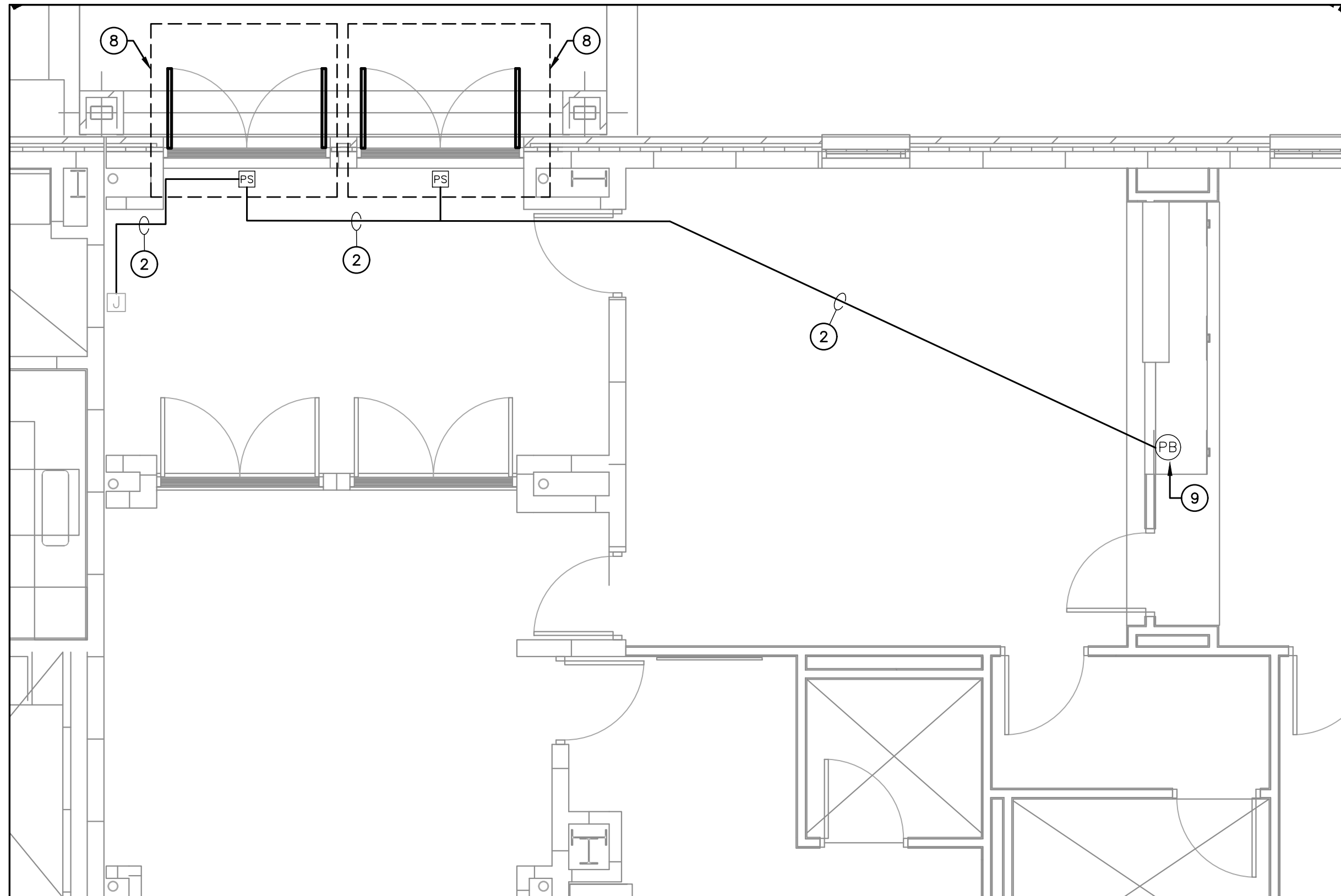
SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T

E3.6



1 SITE ELECTRICAL PLAN
1/32" = 1'-0"



2 ENLARGED PLAN - ACCESS CONTROL DELAYED EGRESS
1/4" = 1'-0"

GENERAL NOTES:

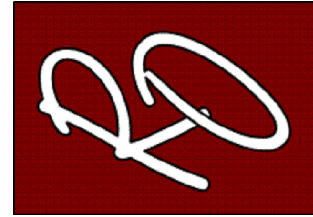
A. REFER TO SHEET E0.0 FOR ELECTRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS.

ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF NEW PANEL "LK". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
- ROUTE NEW CONDUITS ABOVE CEILING ALONG EXTERIOR WALL. ALL EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
- PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E0.1.
- FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. INTERCONNECT WITH KEYPAD SO THAT BOTH MOTORS OPEN AT THE SAME TIME WHEN CODE IS ENTERED.
- FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PED42 OR EQUAL FOR FOR BUS LOOP. INTERCONNECT WITH RFID READER LM5C 1000 WHICH IS TO BE MOUNTED ON 4X4X3/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
- FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
- BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
- FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE APEX 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/E0.1. CONNECT NO MORE THAN (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO BE PLACED IN AT FRONT COUNTER. COORDINATE EXACT LOCATION WITH OWNER/ENGINEER. CONTRACTOR TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE. PROVIDE HARDWARE EQUAL TO:
R0DE21031702A630 - PANIC EXIT DEVICE
3R0DE21031703A630 - 3R APEX PANIC EXIT DEVICES
12E72626 - CYLINDER STANDARD BEST
RMOKR822689 - RM REMOVABLE MULLION
EPT - 2 POWER TRANSFER 02188 0600 - NO CORE REV A
PS161 - 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9ASSA ABLOY - EXIT BUTTON
- FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
- PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION
- PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
- PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.
- PROVIDE 2 RUNS OF (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.

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2705 E. Davis Rd., Suite A
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TBPE Firm Registration No. 12179
www.ro-engineering.com



PROJECT NAME
SECURED ENTRANCES
ELECTRIC GATES

PROJECT LOCATION
RAMIREZ ELEMENTARY

PROJECT NAME

PROJECT LOCATION

DESCRIPTION

DATE

NO.

PROJECT NO.: 2024

DRAWN BY: L.J.H.

CHECKED BY: R.O.

SHEET TITLE:

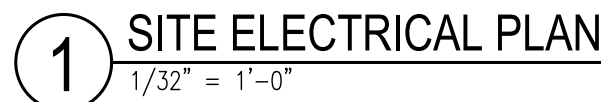
SITE ELECTRICAL
& ACCESS
CONTROL PLAN

S H E E T

E3.7



E3.8



A. REFER TO SHEET E0.0 FOR ELECETRICAL LEGEND AND GENERAL NOTES FOR POWER AND SPECIAL SYSTEMS

1. APPROXIMATE LOCATION OF EXISTING PANEL "2L". VERIFY EXISTING CONDITIONS BEFORE START OF CONSTRUCTION.
2. ROUTE NEW CONDUNTS ABOVE CEILING ALONG EXTERIOR WALL. ALSO EXPOSED CONDUIT ON INTERIOR AND EXTERIOR SHALL BE PAINTED TO MATCH ATTACHED FINISHED SURFACE COLOR. COORDINATE ROUTING AND SUPPORTS WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
3. PROVIDE NEMA-3R PULLBOX. REFER TO DETAIL 5/E01.
4. FURNISH AND INSTALL HIGH-TRAFFIC COMMERCIAL SLIDE GATE MOTOR MODEL CSL24UL MANUFACTURED BY LIFTMASTER AND ALL NECESSARY APPURTENANCES FOR A COMPLETE WORKING SYSTEM. PROVIDE WITH 24 DAY BATTERY BACKUP. PROVIDE OPEN AND CLOSE PHOTOELECTRIC SENSOR. PROVIDE WITH 5 YEARS MIN WARRANTY. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
5. FURNISH AND INSTALL ACCESS CONTROL KEYPAD MODEL LIFTMASTER KPR2000 MOUNTED ON GOOSENECK PEDESTAL PD42 OR EQUAL FOR BUS LOOP. INTERCONNECT WITH RFID READER LMSC 1000 WHICH IS TO BE MOUNTED ON 4X43/16" GALVANIZED POST AT 12FT ABOVE GROUND WITHIN DETECTION RANGE OF MAXIMUM 30FT FROM THE VEHICLE RFID TAG. SEE DETAIL 9/0.1. CONTRACTOR TO VERIFY UTILITIES PRIOR TO DIGGING AND ENSURE NO OBSTRUCTION BY TREES OR VEGETATION. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO PROVIDE NECESSARY QTY OF VEHICLE RFID ACCESS TAGS FOR CAMPUS BUS DRIVERS.
6. FURNISH AND INSTALL FREE EXIT LOOP. SAW CUT PAVEMENT TO RUN WIRE AND PATCH BACK TO MATCH EXISTING SURFACE. CONTRACTOR TO INSTALL IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
7. BORE UNDER ALL CONCRETE OR ASPHALT PAVEMENT AND SIDEWALKS. FIELD VERIFY ALL UTILITIES PRIOR TO BORING. CONTRACTOR TO REPAIR UTILITIES IN A TIMELY MANNER TO AVOID INTERRUPTIONS TO SCHOOL OPERATIONS AND INSTRUCTION. VERIFY WITH CIVIL ENGINEER WHEN SAW CUTTING PAVEMENT.
8. FURNISH AND INSTALL TOUCHBAR EXIT DEVICE WITH POWER SUPPLY, LEVER, TRIMS AND ALL OTHER APPURTENANCES FOR A COMPLETE WORKING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTRACTOR TO INSTALL NEW MULLION ON ALL DOUBLE DOORS AS REQUIRED. FIELD VERIFY PRIOR TO BID. PROVIDE AEP 2000 TYPE MANUFACTURED BY PHI PRECISION. ELECTRICAL CONTRACTOR TO CONNECT POWER SUPPLY TO NEAREST 120V CIRCUIT ABOVE CEILING. REFER TO DETAIL 8/R FOR CONNECTION. PROVIDE WITH (3) PER CIRCUIT. INTERCONNECT WITH PUSH BUTTON TO FIELD VERIFY LOCATIONS PRIOR TO BID. REFER TO SPEC 08 71 00 FOR DOOR HARDWARE.
PROVIDE HARDWARE EQUAL TO:
RODE21031702A630 – PANIC EXIT DEVICE
3RODE21031703A630 – 3R AEP EXIT DEVICES
12Z72626 – CYLINDER STANDARD BAST
RWK0R822680 – RM REMOVABLE MULLION
EPT1 – 2 POWER TRANSFER 02188 0600 – NO CORE REV A
EPT2 – 6 OUTPUT POWER DISTRIBUTION BOARD NO CORE
TS-9A5SA ABLOY – EXIT BUTTON
9. FURNISH AND INSTALL PUSH BUTTON TO RELEASE DOOR LOCK. CONNECT TO FACP FOR RELEASED UPON ALARM.
10. PROVIDE (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
11. PROVIDE 2 RUNS OF (1) 1-1/4" CONDUIT WITH (2) #4 AWG, (1) #8 AWG CU GND, AND (1) 1" CONDUIT WITH PULL STRING. COORDINATE ALL ROUTING WITH EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
12. PROVIDE NEW 20AMP, 120V, 1PHASE BREAKER IN EXISTING PANELBOARD.
13. PROVIDE NEW NEMA-3R JUNCTION BOX ON EXTERIOR CONDUIT SHALL BE SECURED TO EXTERIOR WALL. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH EXTERIOR FINISH.

NOTE: CONTRACTOR SHALL MAKE CHANGES TO CONDUIT AND WIRE SIZE IN ACCORDANCE TO NEC SHOULD ALTERNATE ROUTE BE TAKEN.



SECURED ENTRANCES ELECTRIC GATES

GORENA ELEMENTARY

[illegible]

PROJECT NO :	3034
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DRAWN BY: L.J.H.

CHECKED BY: R.O.

SHEET TITLE:

SITE ELECTRICAL & ACCESS CONTROL PLAN

