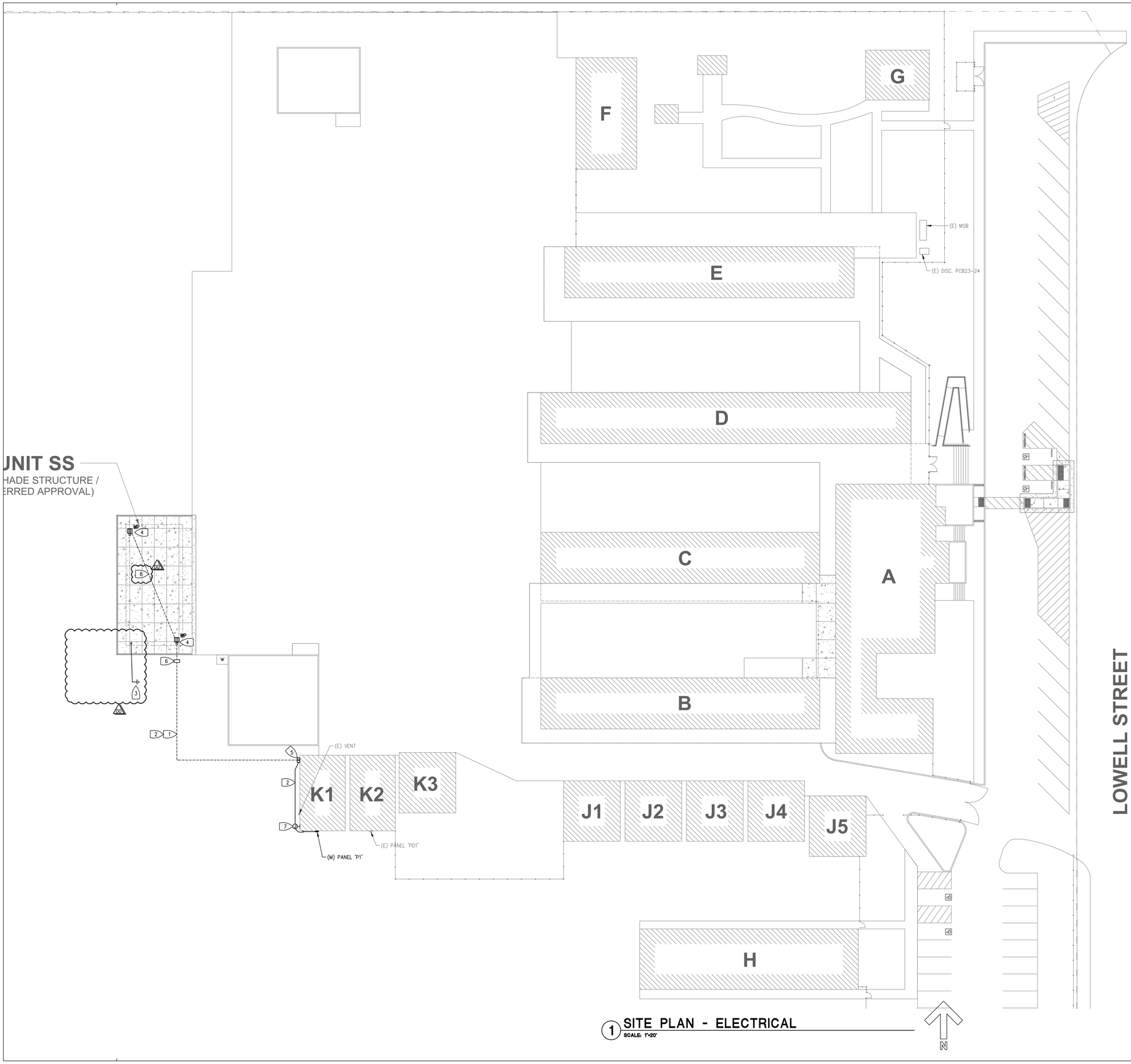
SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.
2. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET E2.1 FOR REFERENCE.

KEYED NOTES:

1. PROVIDE TRENCH FOR 24 INCH MINIMUM COVER. LOCATE AND PROTECT (E) UTILITIES, I.E. IRRIGATION, SEWER, DRAINAGE PIPES, ETC. PROVIDE SAND TO COVER CONDUIT TO SIX(6) INCHES, THEN ADD TRACER TAPE. COMPLETE BACKFILL TO GRADE, COMPACTING IN SIX(6)-INCH LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL 3/E3.1. (ADD)
2. RUN CONDUIT BELOW THE HVAC UNIT, THEN RISE CONDUIT HIGH ON WALL AS CLOSE TO THE EAVE AS POSSIBLE TO WRAP AROUND BUILDING, AND DROP CONDUIT TO BELOW GRADE. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
3. PROVIDE AT MINIMUM TWO(2) GROUND RODS, ONE AT THE PULL BOX AND ONE NEAR THE CORNER POST OF THE SHADE STRUCTURE, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAIL 5/E3.1 AND 2/E3.1. (ADD)
4. LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT(S). MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL 4/E3.1.
5. PROVIDE 8" BY 6" BY 4" NEMA 3R PULL BOX.
6. PROVIDE CHRISTY B1.324 PULL BOX WITHIN FIVE(5) FT OF SHADE STRUCTURE. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. SEE DETAIL 2/E3.1.
7. PROVIDE J-BOX HIGH ON WALL. PAINT TO MATCH (E) FINISH.
8. RUN CONDUIT BELOW SHADE STRUCTURE CONCRETE PAD. (ADD)



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

AD0B.24

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REGISTERED PROFESSIONAL ENGINEER — R. PETERS — 17247 Exp. 6/30/22 — ELECTRICAL — STATE OF CALIFORNIA

PLOT DATE: 4/28/2022

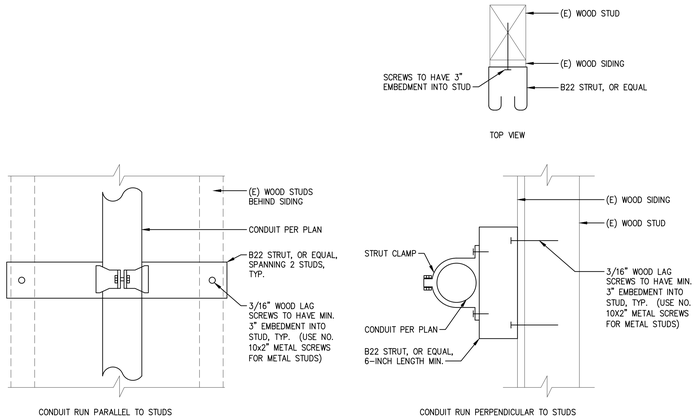
SHADE STRUCTURE AT EARL WARREN ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision		
AD0	ADDENDUM	04/28/22

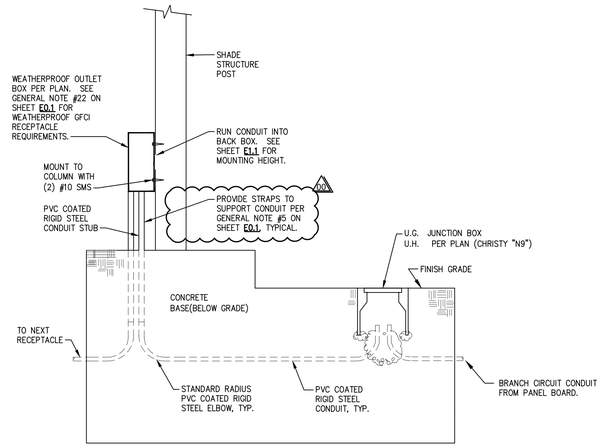
SITE PLAN - ELECTRICAL

PROJECT NO.	1504.13
DATE:	3/21/2022
SHEET	E1.1

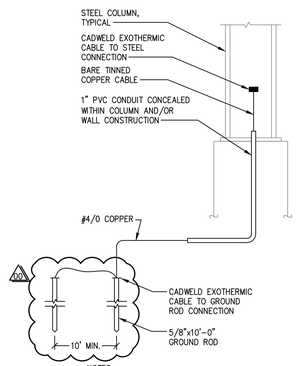


NOTES:
1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

7 CONDUIT MOUNTING DETAIL - STUD WALLS
SCALE: NONE

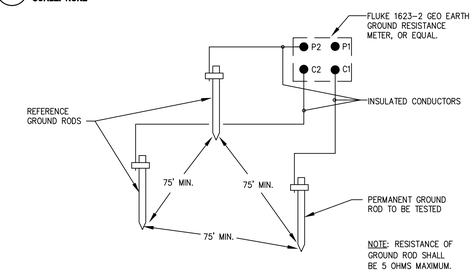


4 CONDUIT STUB IN POST DETAIL
SCALE: NONE



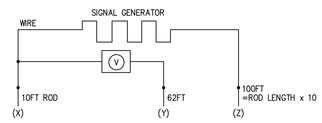
NOTES:
1. ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
2. FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 10.

TYPICAL STEEL COLUMN 5 & REBAR GROUNDING DETAIL
SCALE: NONE



FALL OF POTENTIAL TEST METHOD
NOTES:
1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
4. POWER DISTRIBUTION UNITS OR PANELBOARDS SERVING ELECTRONIC I.T. EQUIPMENT: 3 OHMS.
5. MAN-HOLE GROUNDS: 10 OHMS.

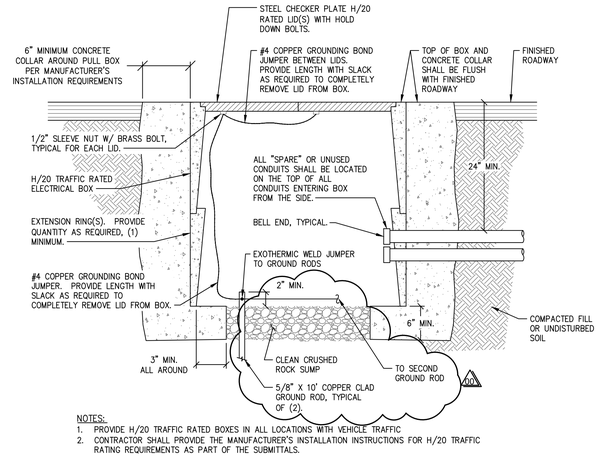
FALL OF POTENTIAL 3-POINT TEST:
GROUND RING, I.E. 10 BY 10 RING, 14' DIAGONAL LENGTH ISOLATION FROM UTILITY NEUTRAL PROBE Z IS DRIVEN A DISTANCE OF 10 TIMES DIAGONAL LENGTH OF THE GROUNDING ROD SYSTEM (ROD X). A SECOND PROBE (Y) IS PLACED IN LINE AT A DISTANCE FROM ROD X EQUAL TO THE DIAGONAL LENGTH OF THE GROUNDING SYSTEM.



AT THIS POINT, A KNOWN CURRENT IS APPLIED ACCROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED R=V/I. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, .. 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE MEASUREMENTS.

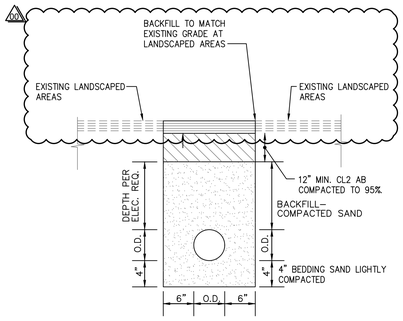
6 METHOD OF TESTING GROUND RODS DETAIL
SCALE: NONE

1 DETAIL REMOVED
SCALE: NONE



NOTES:
1. PROVIDE H/20 TRAFFIC RATED BOXES IN ALL LOCATIONS WITH VEHICLE TRAFFIC
2. CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR H/20 TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 TYPICAL H/20 TRAFFIC RATED PULL BOX
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE

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consulting mechanical and electrical engineers

REGISTERED PROFESSIONAL ENGINEER R. RICHARD 17247 Exp. 6/30/22 ELECTRICAL STATE OF CALIFORNIA

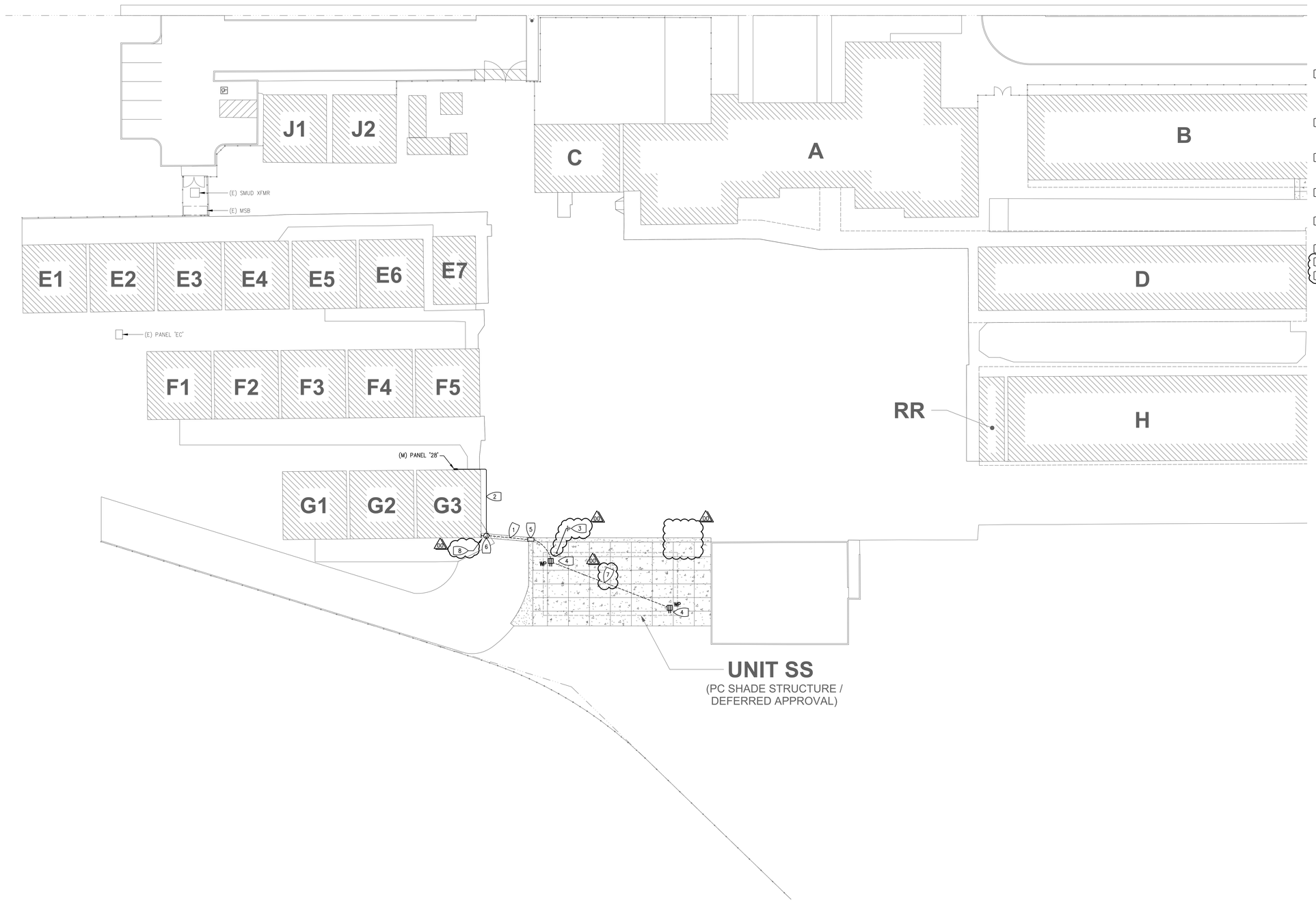
PLOT DATE: 4/28/2022

SHADE STRUCTURE AT EARL WARREN ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision	
ADD'M	04/28/22

DETAILS

PROJECT NO. 1504.13
DATE: 3/21/2022
SHEET **E3.1**



SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.
2. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET E2.1 FOR REFERENCE.

KEYED NOTES:

1. PROVIDE TRENCH FOR 24 INCH MINIMUM COVER. LOCATE AND PROTECT (E) UTILITIES, I.E. IRRIGATION, SEWER, DRAINAGE PIPES, ETC. SAW CUT AND PATCH BACK (E) ASPHALT. PROVIDE SAND TO COVER CONDUIT TO SIX(6) INCHES, THEN ADD TRACER TAPE. COMPLETE BACKFILL TO GRADE, COMPACTING IN SIX(6)-INCH LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL 3/E3.1.
2. RUN CONDUIT HIGH ON WALL TO WRAP AROUND BUILDING, AND DROP CONDUIT TO BELOW CONCRETE/ASPHALT. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
3. PROVIDE AT MINIMUM TWO(2) GROUND RODS, ONE AT THE PULL BOX AND ONE NEAR THE CORNER POST OF THE SHADE STRUCTURE, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAIL 5/E3.1 AND 2/E3.1.
4. LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT(S). MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL 4/E3.1.
5. PROVIDE CHRISTY B1324 PULL BOX WITHIN FIVE(5) FT OF SHADE STRUCTURE. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. SEE DETAIL 2/E3.1.
6. PROVIDE J-BOX HIGH ON WALL. PAINT TO MATCH (E) FINISH.
7. RUN CONDUIT BELOW SHADE STRUCTURE CONCRETE PAD.
8. SAW CUT AND PATCH BACK (E) CONCRETE AS REQUIRED FOR TRENCHING.

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

N

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REGISTERED PROFESSIONAL ENGINEER
DAVID R. PETERS
17247
Exp. 6/30/22
ELECTRICAL
STATE OF CALIFORNIA

PLOT DATE: 4/28/2022

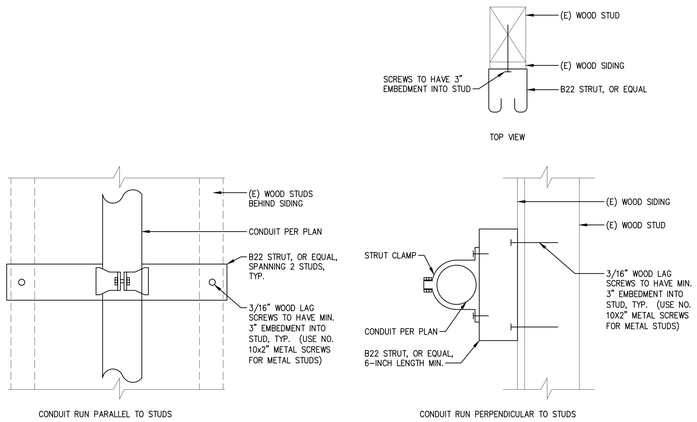
SHADE STRUCTURE AT ELDER CREEK ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision	
ADDENDUM	04/28/22

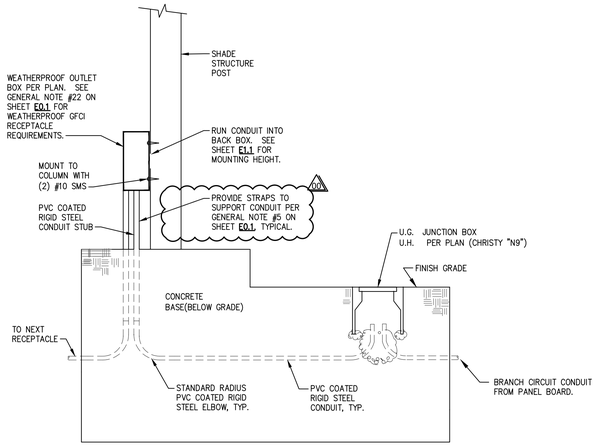
SITE PLAN - ELECTRICAL

PROJECT NO.	1504.12
DATE:	3/21/2022
SHEET	E1.1

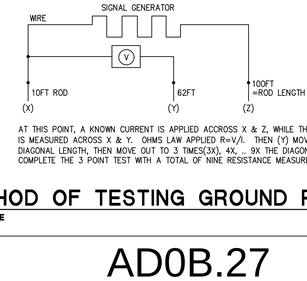


NOTES:
1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

7 CONDUIT MOUNTING DETAIL - STUD WALLS
SCALE: NONE

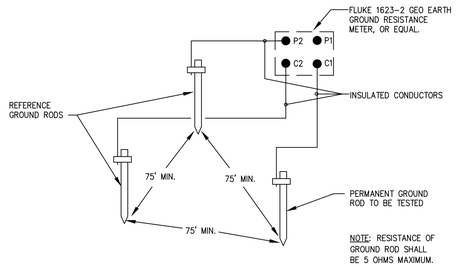


4 CONDUIT STUB IN POST DETAIL
SCALE: NONE



NOTES:
1. ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
2. FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 10.

TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL
SCALE: NONE



FALL OF POTENTIAL TEST METHOD
NOTES:
1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
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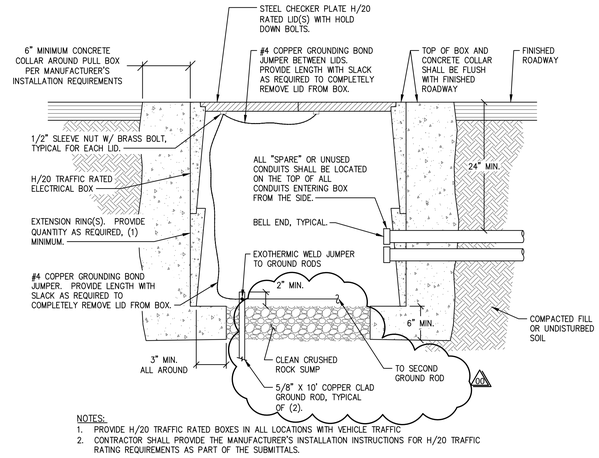
5. MAN-HOLE GROUNDS: 10 OHMS.

FALL OF POTENTIAL 3-POINT TEST:
GROUND RING, I.E. 10 BY 10 RING, 14' DIAGONAL LENGTH ISOLATION FROM UTILITY NEUTRAL PROBE Z IS DRIVEN A DISTANCE OF 10 TIMES DIAGONAL LENGTH OF THE GROUNDING ROD SYSTEM (ROD X). A SECOND PROBE (Y) IS PLACED IN LINE AT A DISTANCE FROM ROD X EQUAL TO THE DIAGONAL LENGTH OF THE GROUNDING SYSTEM.

AT THIS POINT, A KNOWN CURRENT IS APPLIED ACCROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED R=V/I. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, .. 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE MEASUREMENTS.

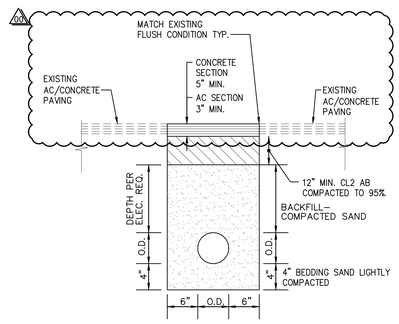
6 METHOD OF TESTING GROUND RODS DETAIL
SCALE: NONE

1 DETAIL REMOVED
SCALE: NONE



NOTES:
1. PROVIDE H/20 TRAFFIC RATED BOXES IN ALL LOCATIONS WITH VEHICLE TRAFFIC
2. CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR H/20 TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 TYPICAL H/20 TRAFFIC RATED PULL BOX
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE

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REGISTERED PROFESSIONAL ENGINEER — STEVEN R. PETERS — 17247 Exp. 6/30/22 — ELECTRICAL — STATE OF CALIFORNIA

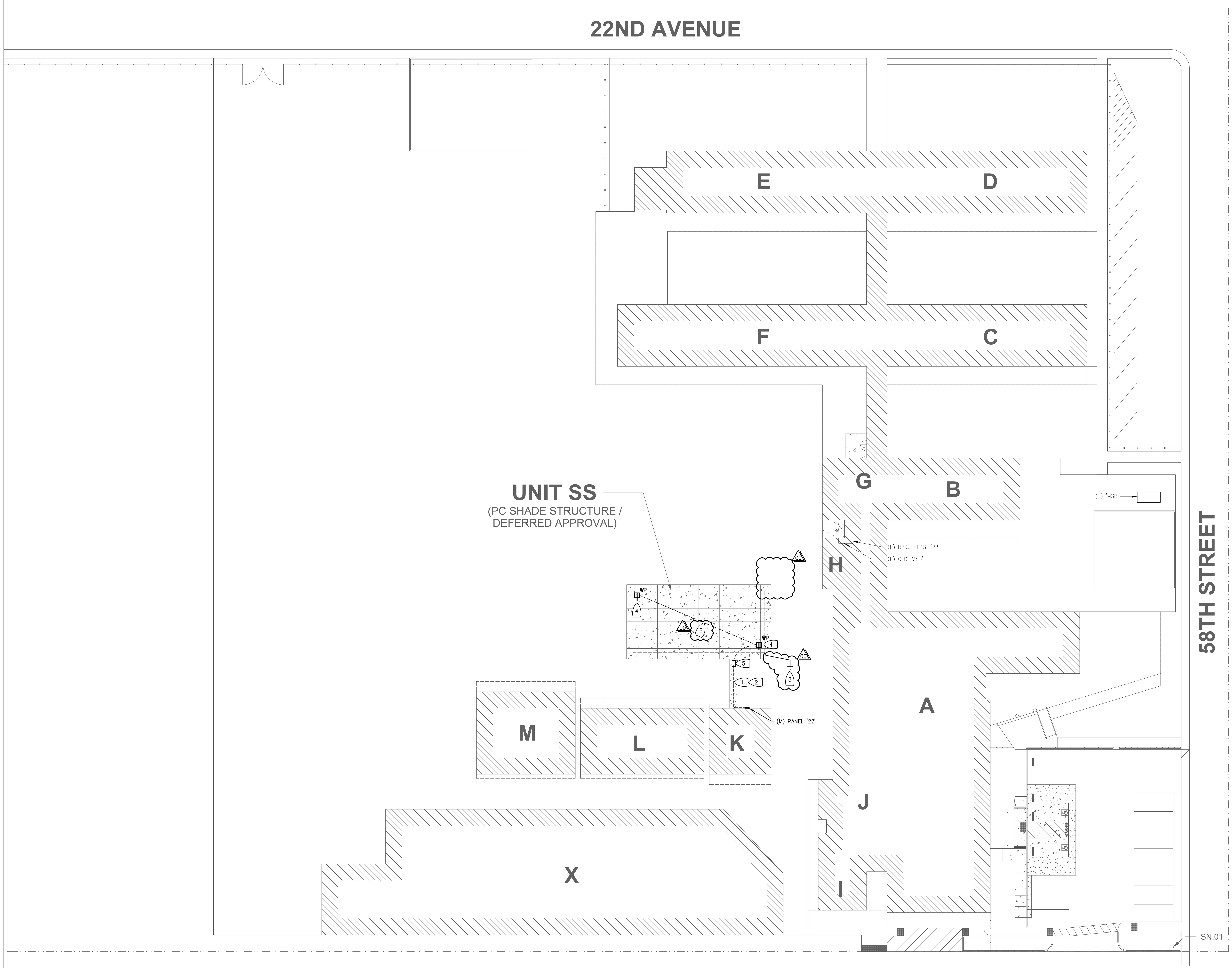
PLOT DATE: 4/28/2022

SHADE STRUCTURE AT ELDER CREEK ELEMENTARY SCHOOL
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision	
01 ADDENDUM	04/28/22

DETAILS

PROJECT NO.	1504.12
DATE:	3/21/2022
SHEET	E3.1



SITE PLAN - ELECTRICAL
SCALE: 1"=20'

SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.
2. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET E2.1 FOR REFERENCE.

KEYED NOTES:

1. PROVIDE TRENCH FOR 24 INCH MINIMUM COVER. LOCATE AND PROTECT (E) UTILITIES, I.E. IRRIGATION, SEWER, DRAINAGE PIPES, ETC. SAW CUT AND PATCH BACK (E) ASPHALT. PROVIDE SAND TO COVER CONDUIT TO SIX(6) INCHES, THEN ADD TRACER TAPE. COMPLETE BACKFILL TO GRADE, COMPACTING IN SIX(6)-INCH LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL 3/E3.1.
2. DROP CONDUIT TO BELOW ASPHALT. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
3. PROVIDE AT MINIMUM TWO(2) GROUND RODS, ONE AT THE PULL BOX AND ONE NEAR THE CORNER POST OF THE SHADE STRUCTURE, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAIL 5/E3.1 AND 2/E3.1.
4. LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT(S). MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL 4/E3.1.
5. PROVIDE CHRISTY B1324 PULL BOX WITHIN FIVE(5) FT OF SHADE STRUCTURE. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. SEE DETAIL 2/E3.1.
6. RUN CONDUIT BELOW SHADE STRUCTURE CONCRETE PAD.

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REGISTERED PROFESSIONAL ENGINEER
GINO R. ROMANO
17247
Exp. 6/30/22
ELECTRICAL
STATE OF CALIFORNIA

PLOT DATE: 4/28/2022

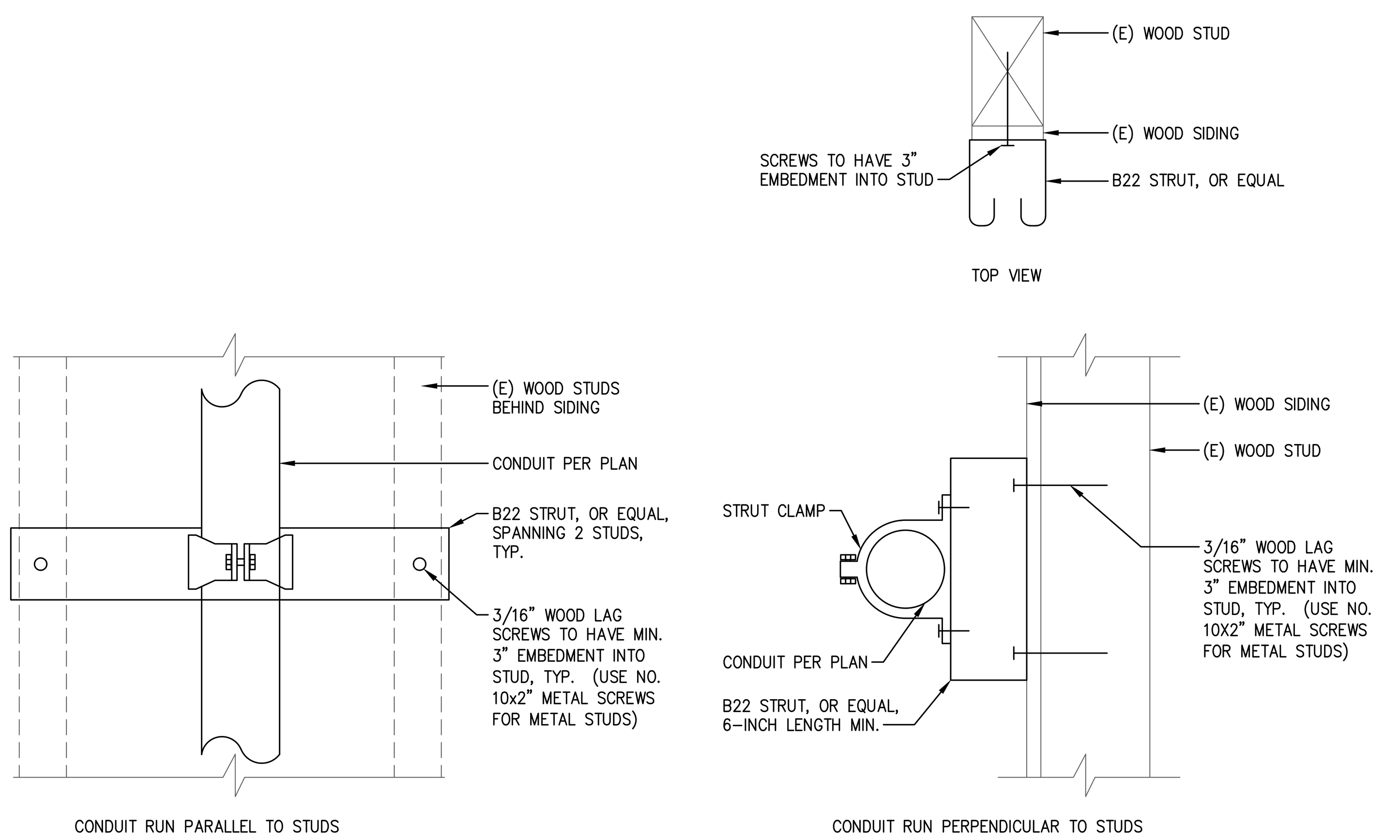
SHADE STRUCTURE AT MARK TWAIN ELEMENTARY SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision		
00	ADDENDUM	04/28/22

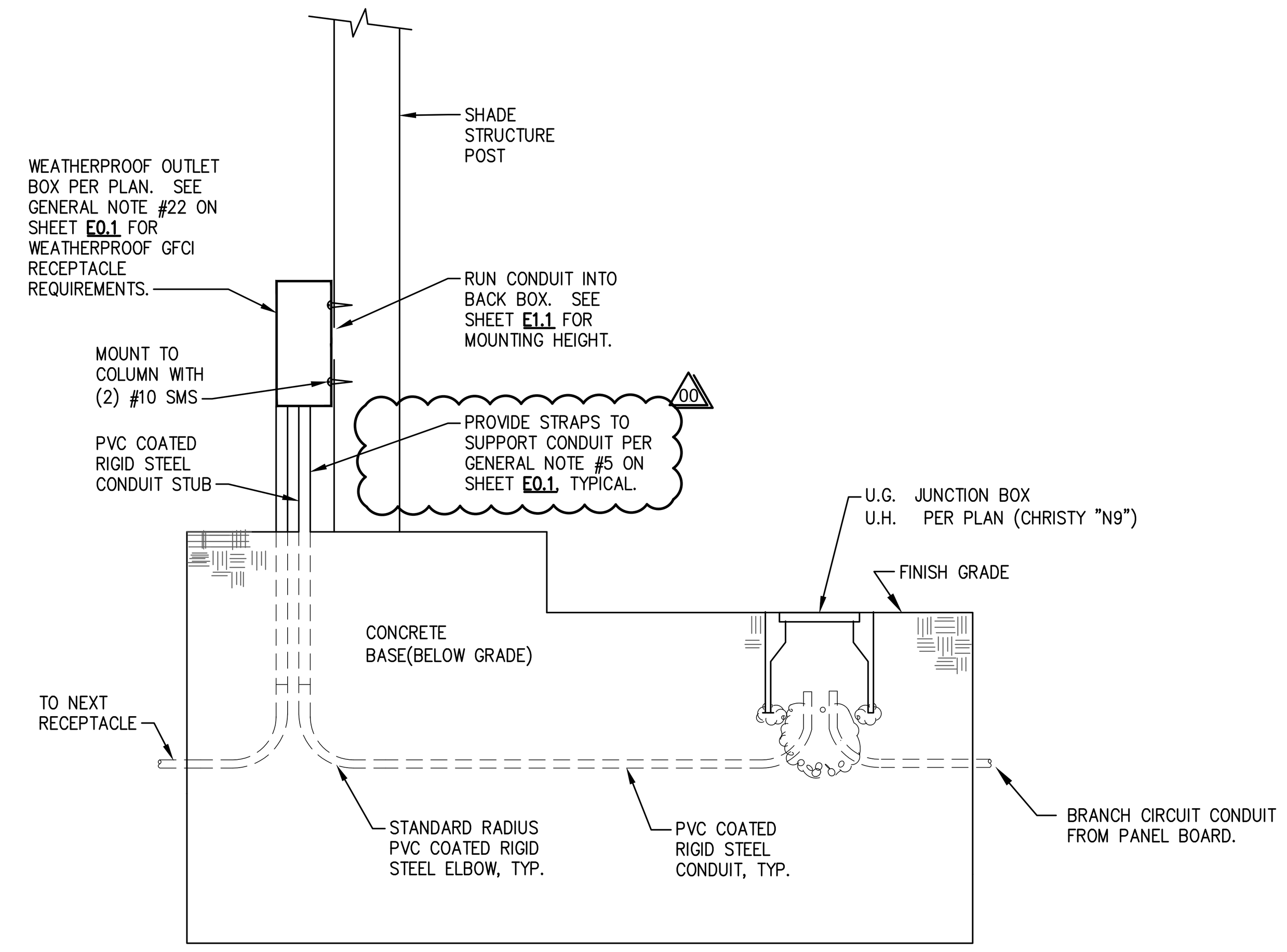
SITE PLAN - ELECTRICAL

PROJECT NO.	1504.14
DATE:	3/21/2022
SHEET	E1.1

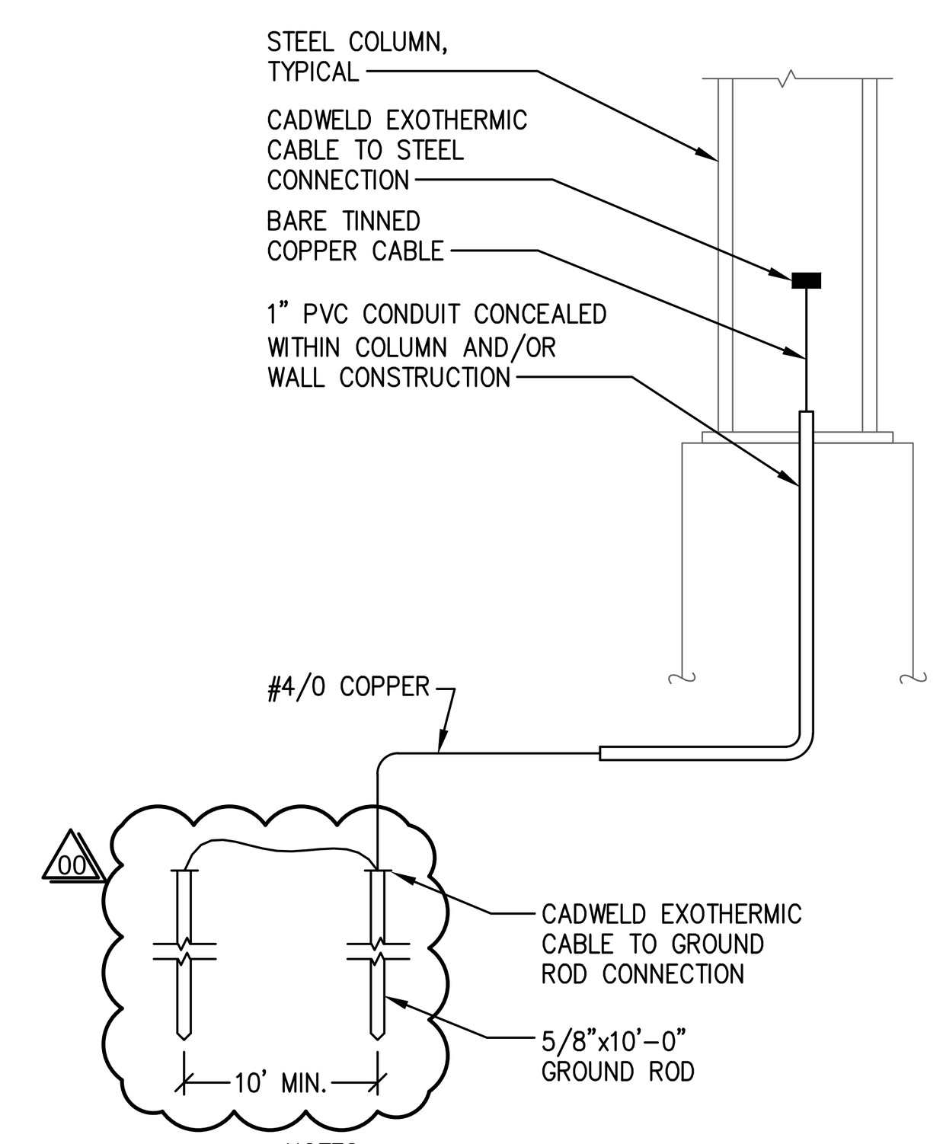


NOTES:
1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

7 CONDUIT MOUNTING DETAIL - STUD WALLS
SCALE: NONE

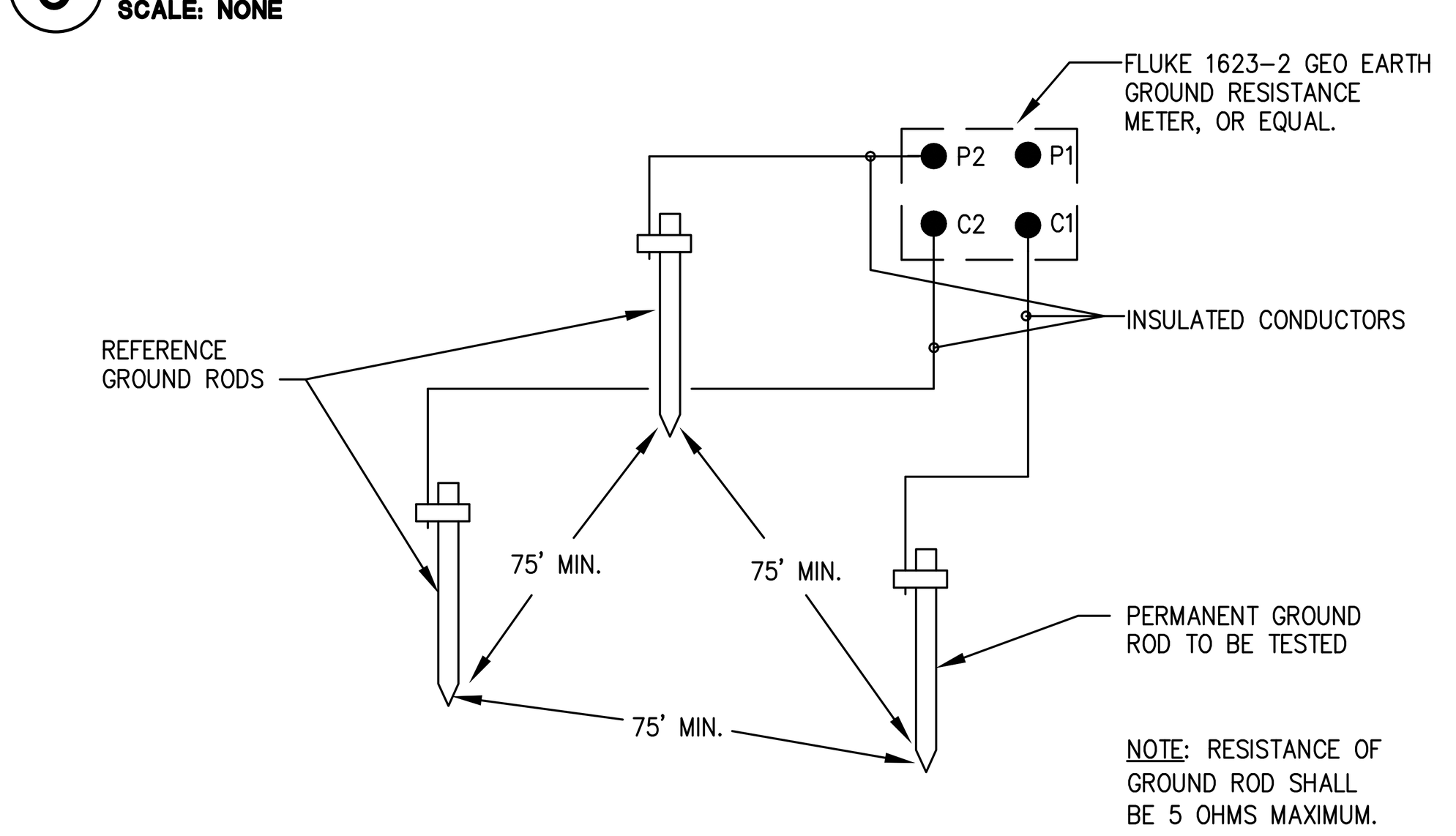


4 CONDUIT STUB IN POST DETAIL
SCALE: NONE



NOTES:
1. ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
2. FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 10.

TYPICAL STEEL COLUMN
5 & REBAR GROUNDING DETAIL
SCALE: NONE



FALL OF POTENTIAL TEST METHOD
NOTES:
1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
4. POWER DISTRIBUTION UNITS OR PANELBOARDS SERVING ELECTRONIC I.T. EQUIPMENT: 3 OHMS.
5. MAN-HOLE GROUNDS: 10 OHMS.

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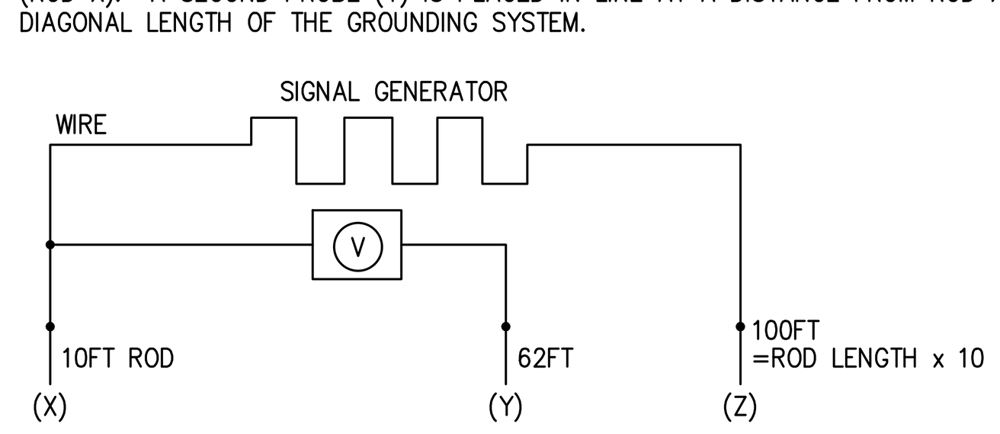
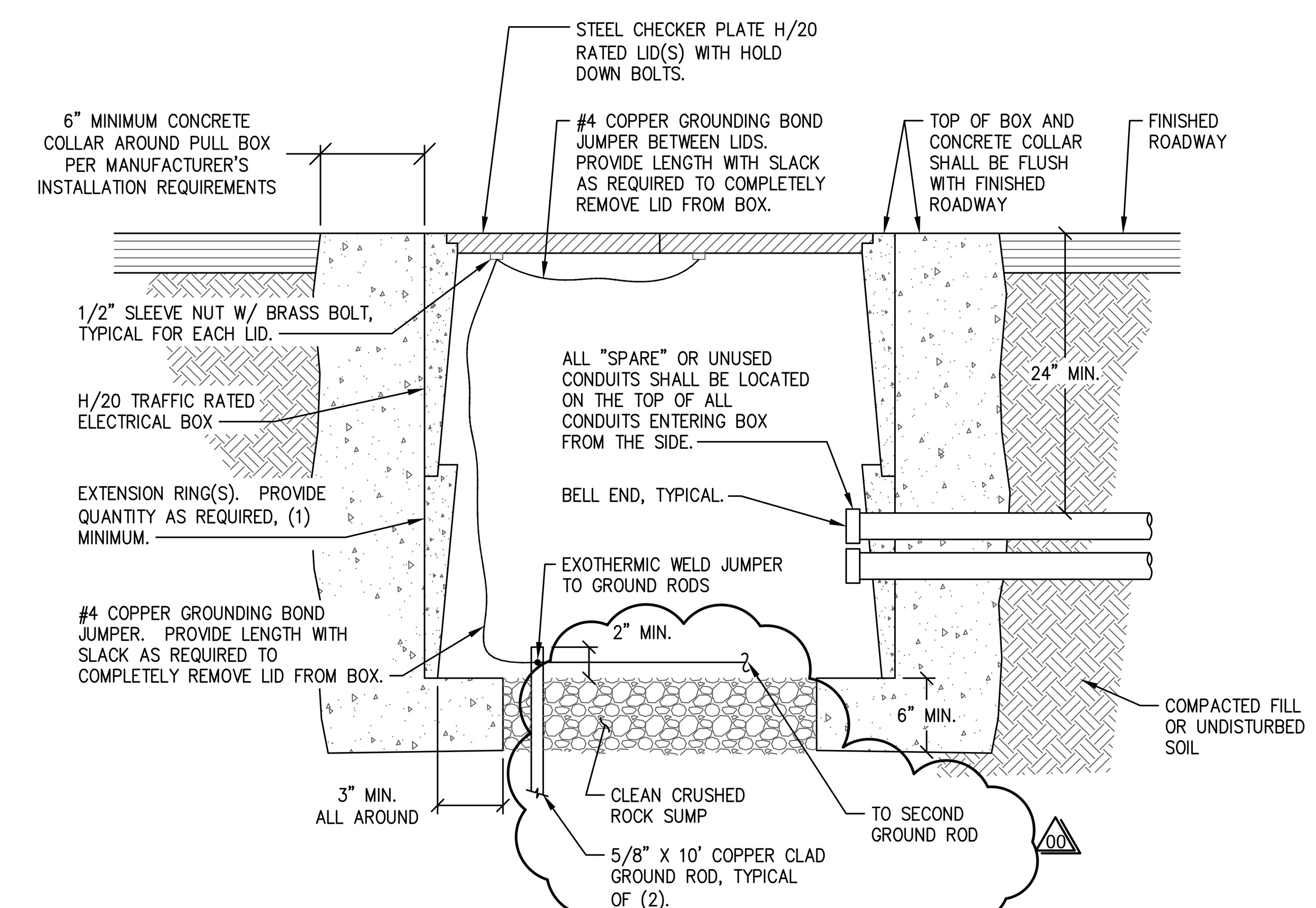


AT THIS POINT, A KNOWN CURRENT IS APPLIED ACCROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED R=V/I. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, .. 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE MEASUREMENTS.

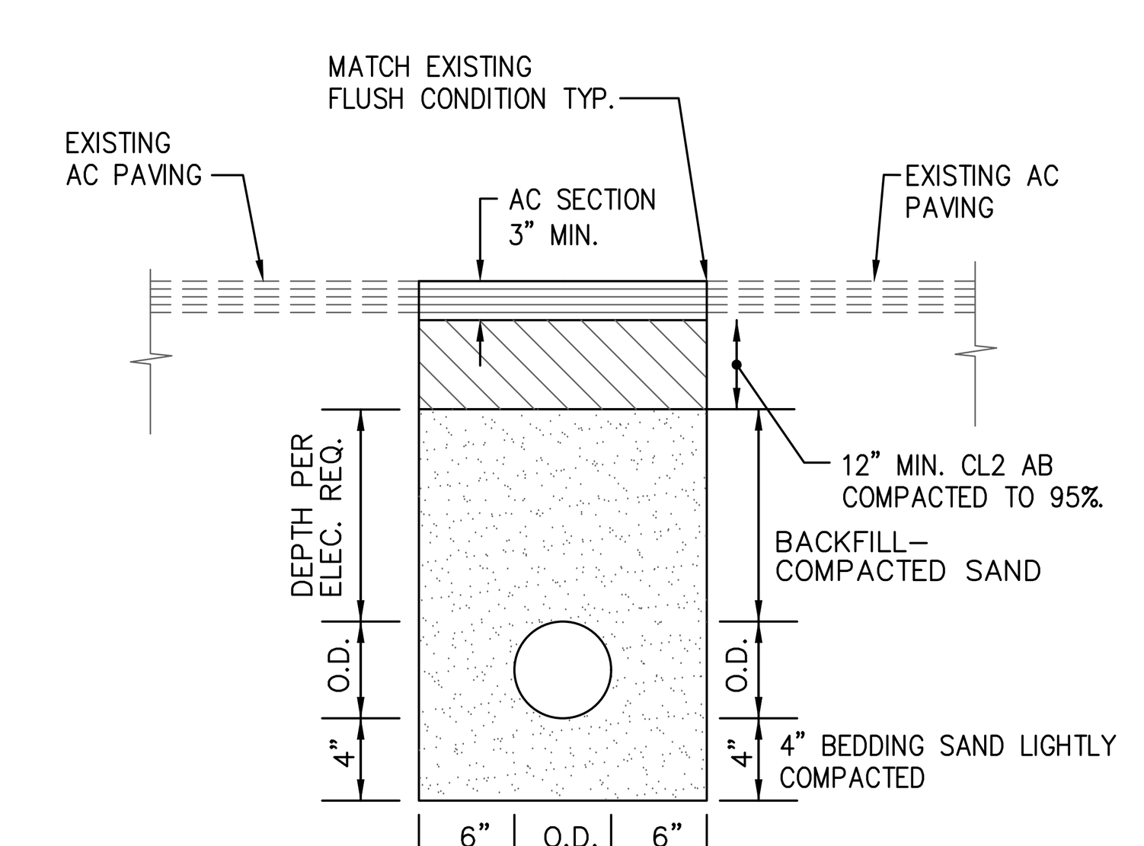
6 METHOD OF TESTING GROUND RODS DETAIL
SCALE: NONE

1 DETAIL REMOVED
SCALE: NONE



NOTES:
1. PROVIDE H/20 TRAFFIC RATED BOXES IN ALL LOCATIONS WITH VEHICLE TRAFFIC
2. CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR H/20 TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 TYPICAL H/20 TRAFFIC RATED PULL BOX
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE

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REGISTERED PROFESSIONAL ENGINEER 17247 Exp. 6/30/22 ELECTRICAL STATE OF CALIFORNIA

PLOT DATE: 4/28/2022

SHADE STRUCTURE AT MARK TWAIN ELEMENTARY SCHOOL

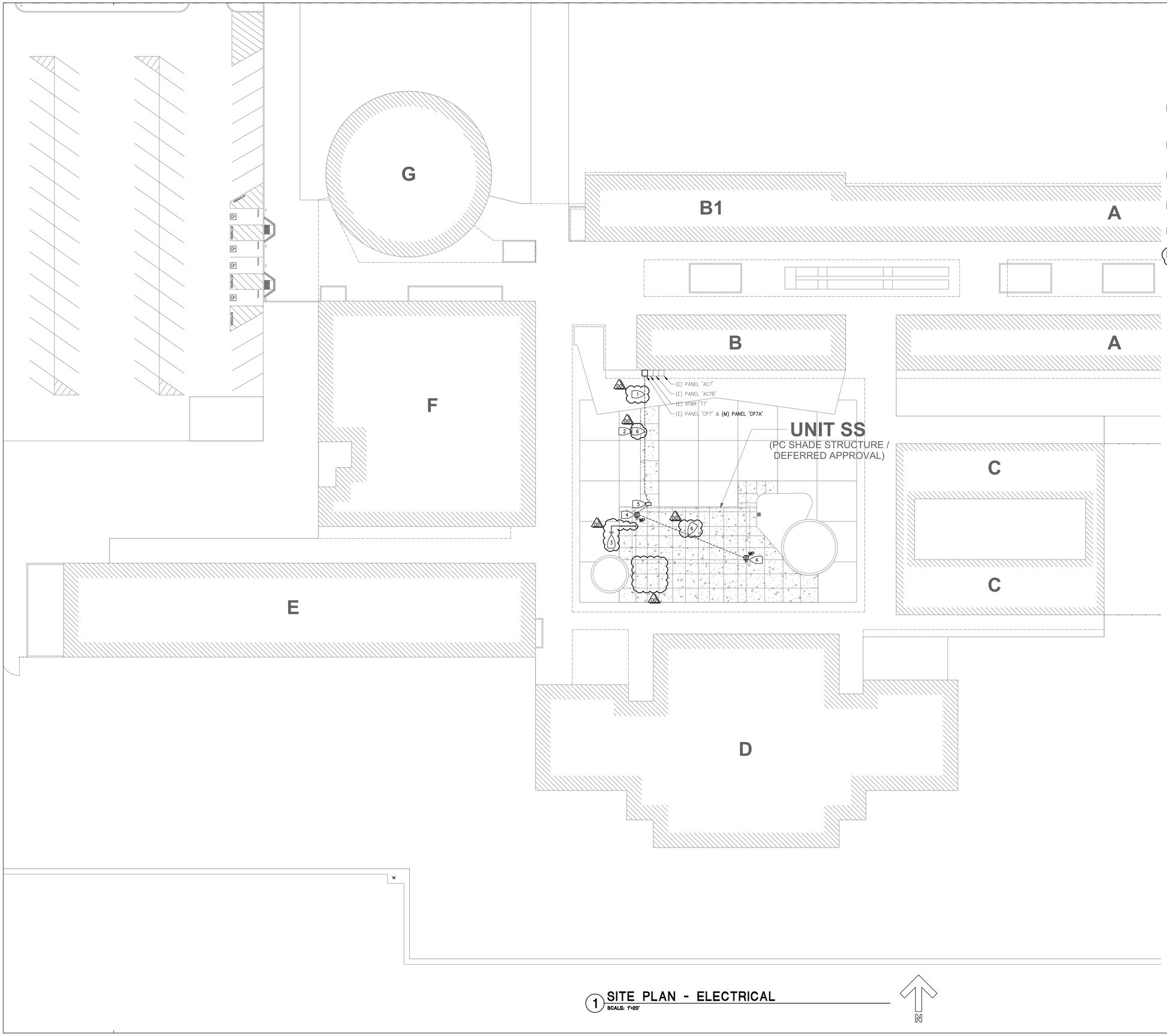
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision		
3	ADDENDUM	04/28/22

DETAILS

PROJECT NO.	1504.14
DATE:	3/21/2022
SHEET	E3.1

AD0B.29



SHEET NOTES:

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS AND LIMITED SITE SURVEYS, AND SHOWN FOR CLARITY ONLY.
2. SEE ONE LINE DIAGRAM AND PANEL SCHEDULE ON SHEET E2.1 FOR REFERENCE.

KEYED NOTES:

1. PROVIDE TRENCH FOR 24 INCH MINIMUM COVER. LOCATE AND PROTECT (E) UTILITIES, I.E. IRRIGATION, SEWER, DRAINAGE PIPES, ETC. PROVIDE SAND TO COVER CONDUIT TO SIX(6) INCHES, THEN ADD TRACER TAPE. COMPLETE BACKFILL TO GRADE, COMPACTING IN SIX(6)-INCH LIFTS. FINISH TO MATCH EXISTING. SEE DETAIL 3/E3.1. (ADD)
2. PROVIDE TYPE LL CONDUIT BODY FROM SIDE OF PANEL ENCLOSURE AND DROP CONDUIT TO BELOW GRADE. TRENCH TO SHADE LOCATION, INTERCEPTING THE CHRISTY BOX ALONG THE WAY. PAINT EXPOSED CONDUIT TO MATCH (E) FINISH.
3. PROVIDE AT MINIMUM TWO(2) GROUND RODS, ONE AT THE PULL BOX AND ONE NEAR THE CORNER POST OF THE SHADE STRUCTURE, EACH 5/8" BY TEN(10) FEET LONG, CU, AT LEAST TEN(10) FEET APART. BOND TO METAL OF SHADE STRUCTURE. SEE DETAIL 5/E3.1 AND 2/E3.1. (ADD)
4. LOCKABLE, WEATHERPROOF RECEPTACLE TO HAVE A TWO-GANG BACK BOX WITH 1" THREADED PORT(S). MOUNT RECEPTACLES 36" ABOVE GRADE UNLESS SPECIFIED OTHERWISE. SEE DETAIL 4/E3.1.
5. PROVIDE CHRISTY B1324 PULL BOX WITHIN FIVE(5) FT OF SHADE STRUCTURE. CHRISTY BOX TO HAVE HOLD DOWN BOLTS AND BE LABELED FOR POWER. SEE DETAIL 2/E3.1.
6. RUN CONDUIT BELOW NEW CONCRETE WALKWAY AND SHADE STRUCTURE CONCRETE PAD. (ADD)

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

N

AD0B.30

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REGISTERED PROFESSIONAL ENGINEER — STEPHEN R. PETERS — 17247 Exp. 6/30/22 — ELECTRICAL — STATE OF CALIFORNIA

PLOT DATE: 4/28/2022

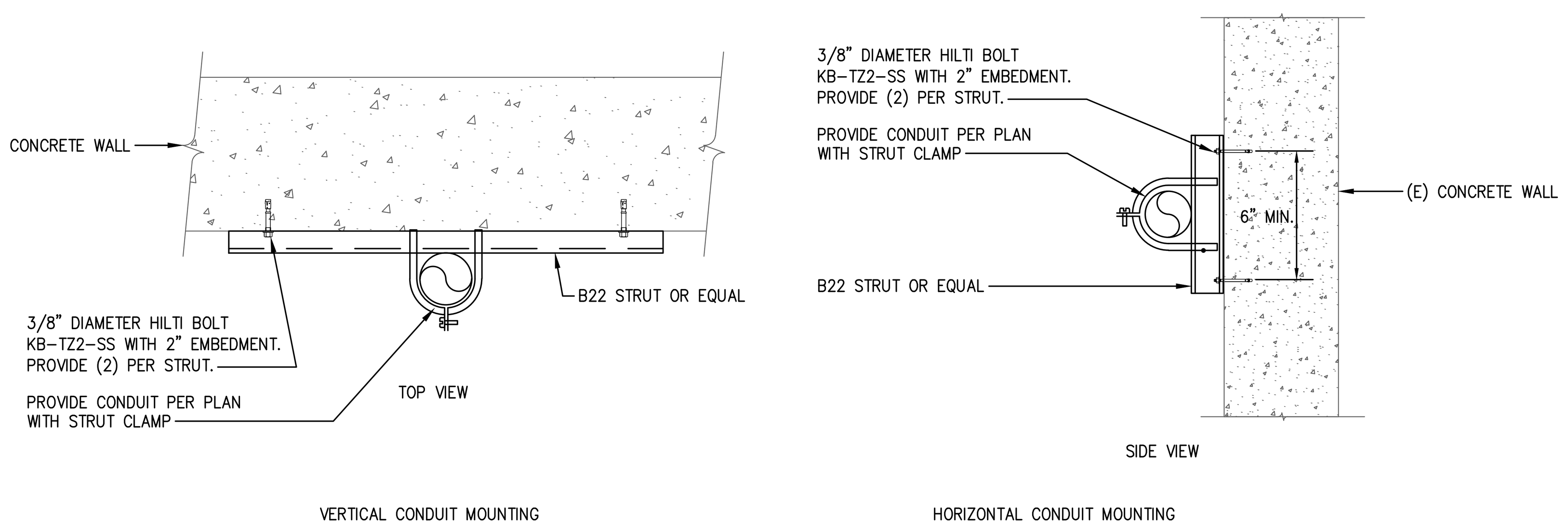
SHADE STRUCTURE AT ROSA PARKS MIDDLE SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
SACRAMENTO, CA

Revision		
ADD	ADDENDUM	04/28/22

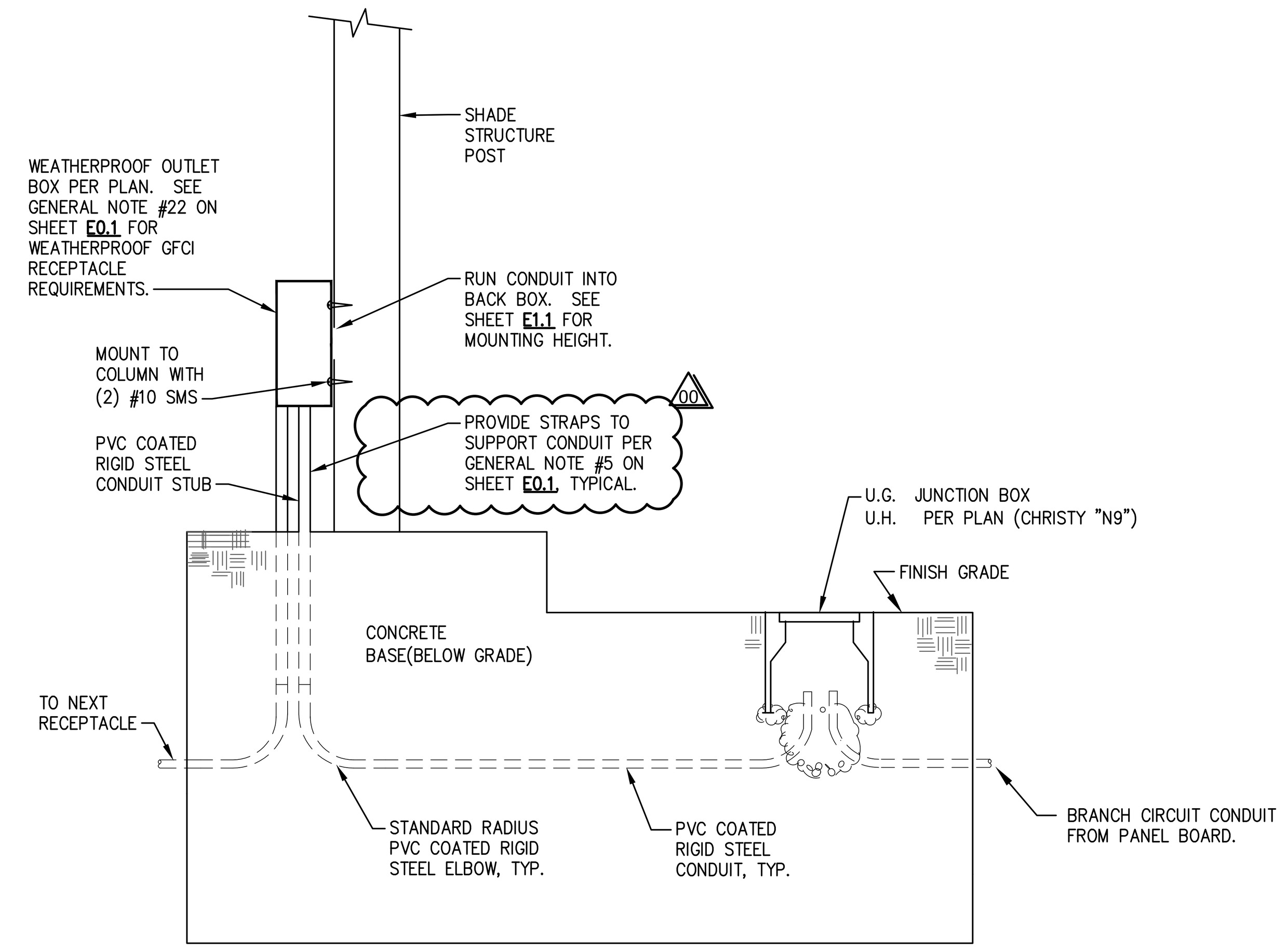
SITE PLAN - ELECTRICAL

PROJECT NO.	1504.10
DATE:	3/21/2022
SHEET	E1.1



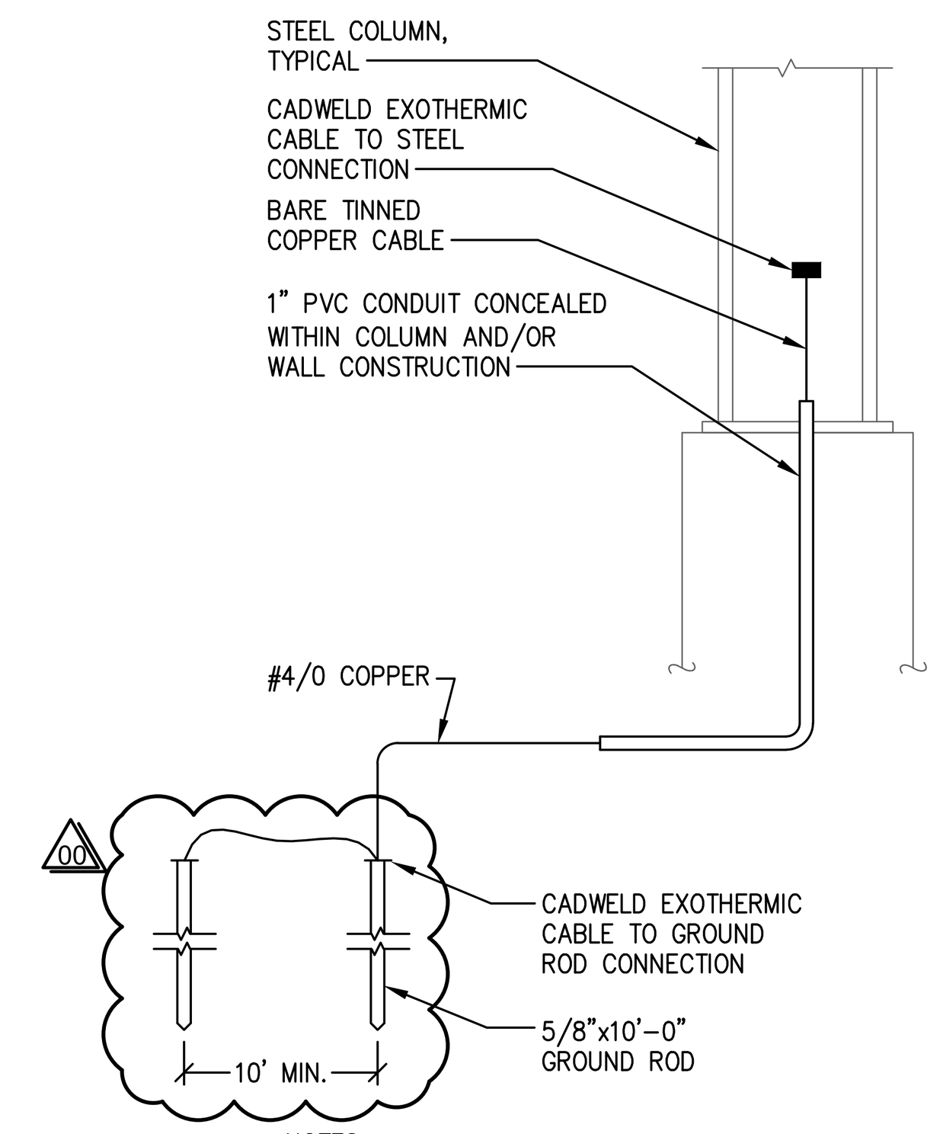
NOTES:
1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

7 CONDUIT MOUNTING DETAIL - CONCRETE WALLS
SCALE: NONE



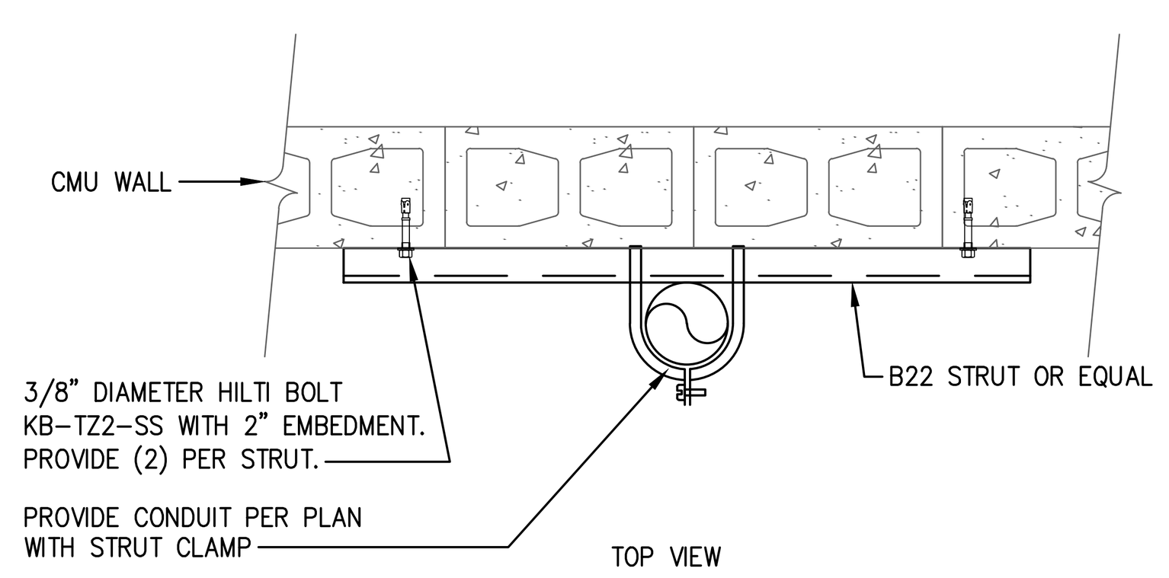
4 CONDUIT STUB IN POST DETAIL
SCALE: NONE

1 DETAIL REMOVED
SCALE: NONE



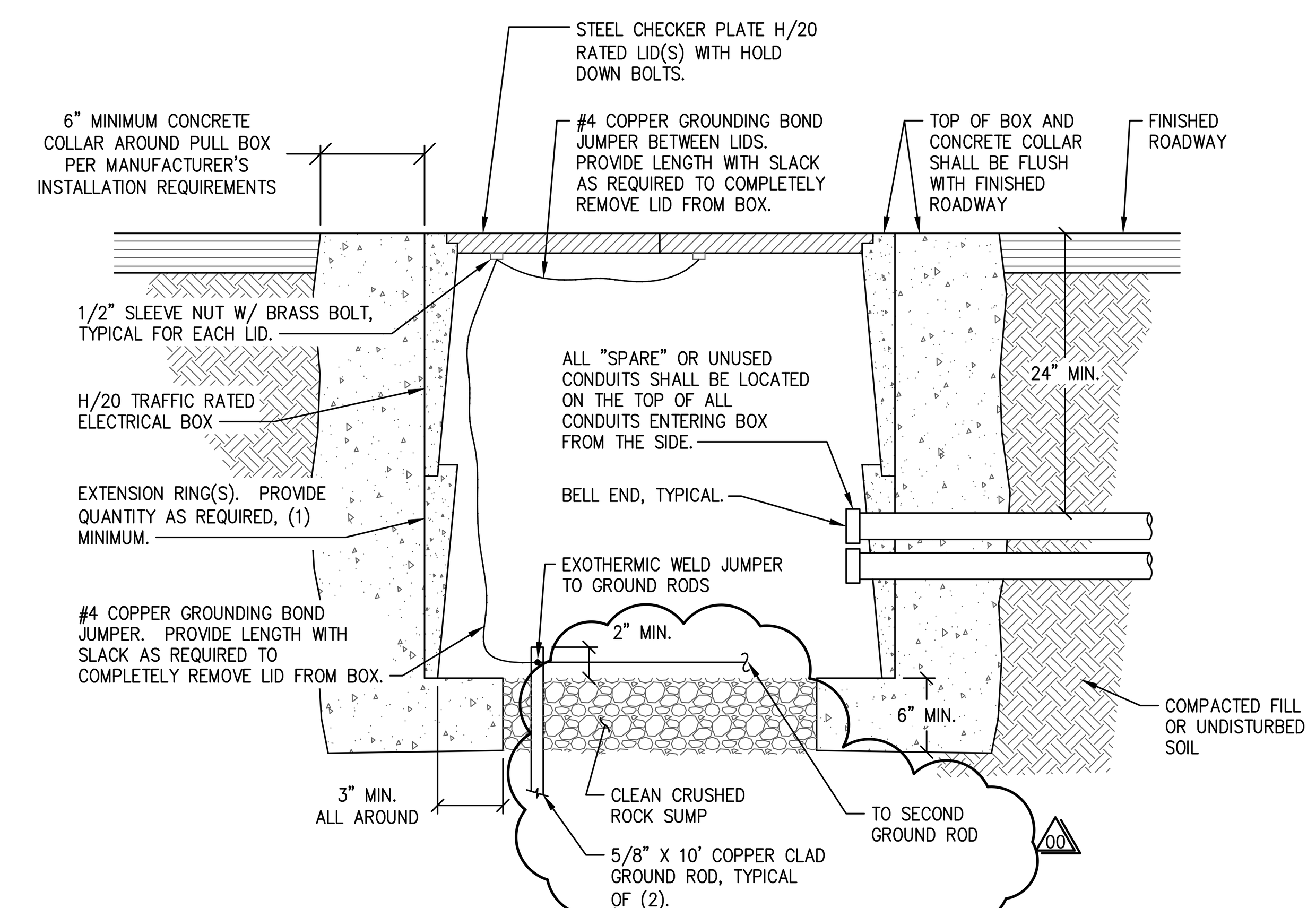
NOTES:
1. ALL GROUNDING CONNECTIONS SHALL BE IN CONFORMANCE WITH N.E.C. ARTICLE 250.
2. FOR ALL ADDITIONAL REQUIREMENTS REFER TO SPEC SECTIONS 26 05 10.

5 TYPICAL STEEL COLUMN & REBAR GROUNDING DETAIL
SCALE: NONE



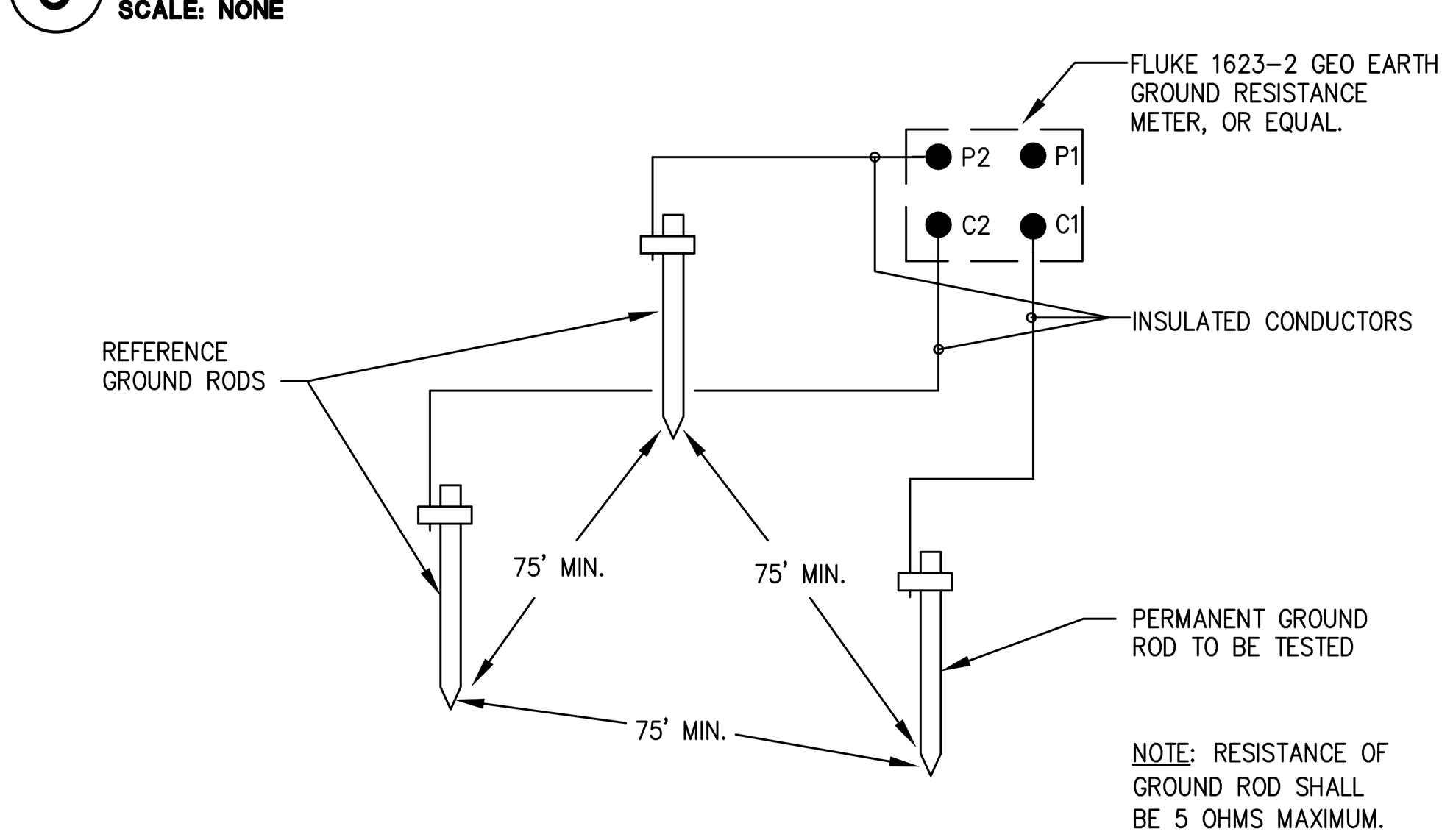
NOTES:
1. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING TEN(10) FEET AND NOT MORE THAN THREE(3) FEET FROM THE OUTLET AND AT ANY POINT WHERE IT CHANGES DIRECTION.
2. PERFORATED STRAP AND PLUMBER'S TAPE SHALL NOT BE PERMITTED.
3. MAXIMUM CONDUIT AND CONDUCTOR WEIGHT IS 1.83LBS PER LINEAR FOOT.

8 CONDUIT MOUNTING DETAIL - CMU WALLS
SCALE: NONE



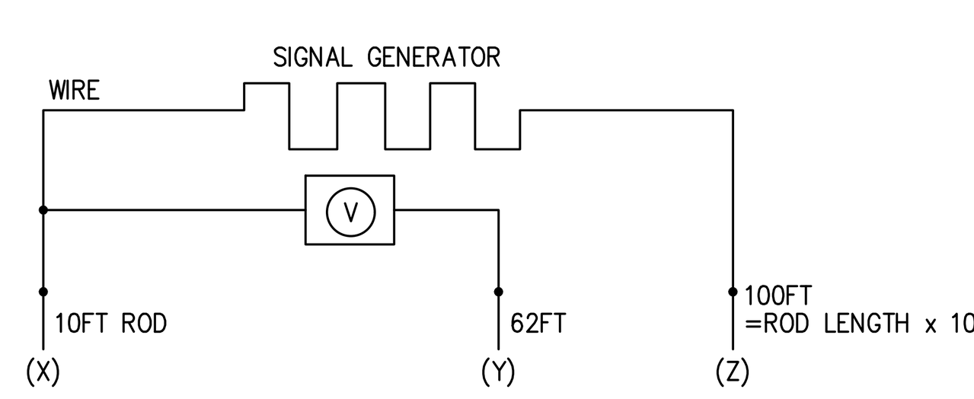
NOTES:
1. PROVIDE H/20 TRAFFIC RATED BOXES IN ALL LOCATIONS WITH VEHICLE TRAFFIC
2. CONTRACTOR SHALL PROVIDE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR H/20 TRAFFIC RATING REQUIREMENTS AS PART OF THE SUBMITTALS.

2 TYPICAL H/20 TRAFFIC RATED PULL BOX
SCALE: NONE



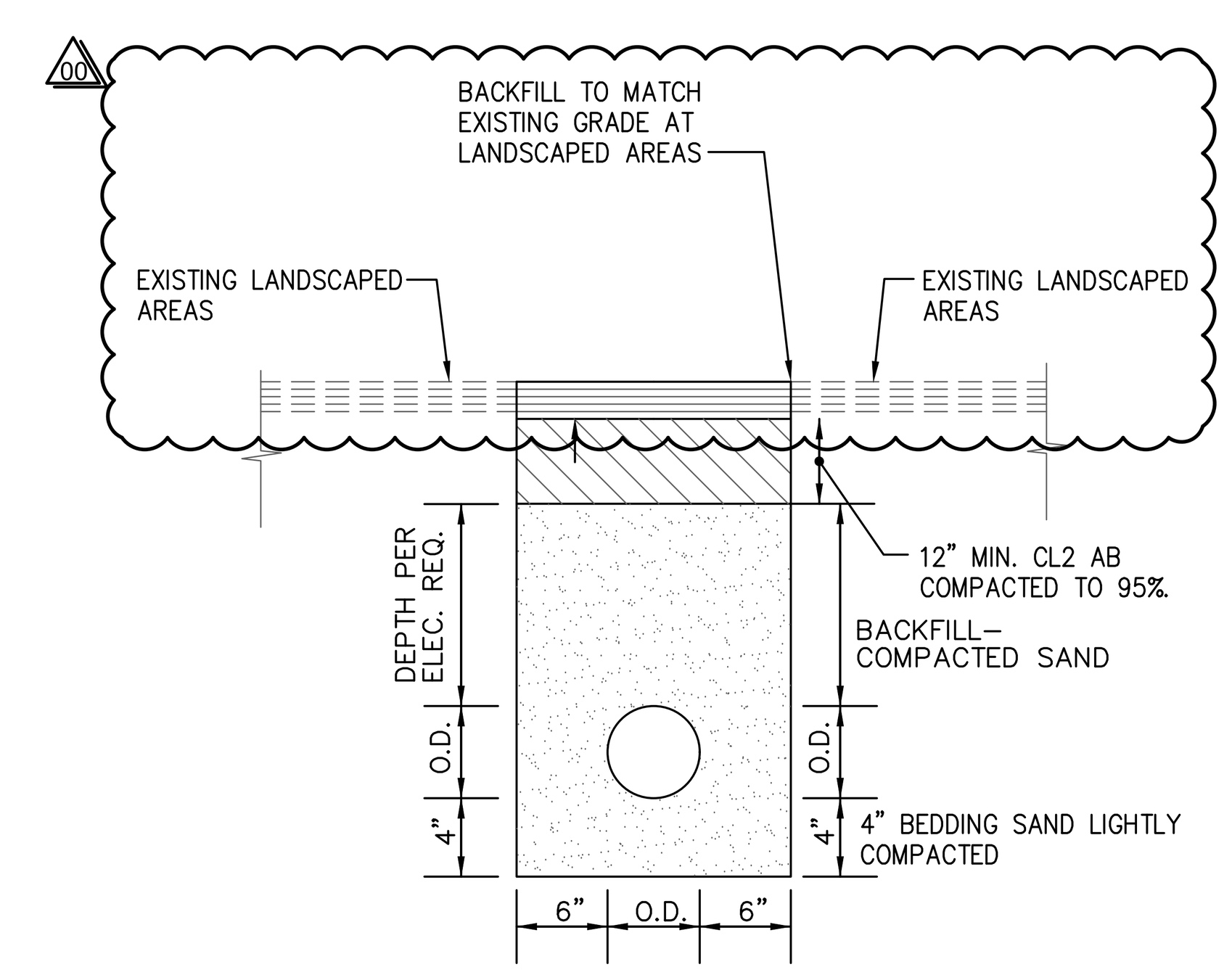
FALL OF POTENTIAL TEST METHOD
NOTES:
1. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500KVA OR LESS: 10 OHMS.
2. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY OF 500 TO 1000KVA: 5 OHMS.
3. POWER EQUIPMENT OR SYSTEMS WITH CAPACITY GREATER THAN 1000KVA: 3 OHMS.
4. POWER DISTRIBUTION UNITS OR PANELBOARDS SERVING ELECTRONIC I.T. EQUIPMENT: 3 OHMS.
5. MAN-HOLE GROUNDS: 10 OHMS.

FALL OF POTENTIAL 3-POINT TEST:
GROUND RING, I.E. 10 BY 10 RING, 14' DIAGONAL LENGTH ISOLATION FROM UTILITY NEUTRAL. PROBE Z IS DRIVEN A DISTANCE OF 10 TIMES DIAGONAL LENGTH OF THE GROUNDING ROD SYSTEM (ROD X). A SECOND PROBE (Y) IS PLACED IN LINE AT A DISTANCE FROM ROD X EQUAL TO THE DIAGONAL LENGTH OF THE GROUNDING SYSTEM.



AT THIS POINT, A KNOWN CURRENT IS APPLIED ACCROSS X & Z, WHILE THE RESULTING VOLTAGE IS MEASURED ACROSS X & Y. OHMS LAW APPLIED R=V/I. THEN (Y) MOVED TO 2 TIMES THE DIAGONAL LENGTH, THEN MOVE OUT TO 3 TIMES(3X), 4X, .. 9X THE DIAGONAL LENGTH TO COMPLETE THE 3 POINT TEST WITH A TOTAL OF NINE RESISTANCE MEASUREMENTS.

6 METHOD OF TESTING GROUND RODS DETAIL
SCALE: NONE



3 TYPICAL TRENCH DETAIL
SCALE: NONE

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SHADE STRUCTURE AT ROSA PARKS MIDDLE SCHOOL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
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Revision		
	ADDENDUM	04/28/22

DETAILS

PROJECT NO.	1504.10
DATE:	3/21/2022
SHEET	E3.1