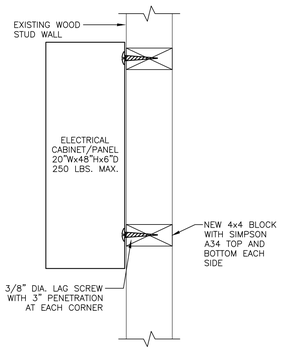
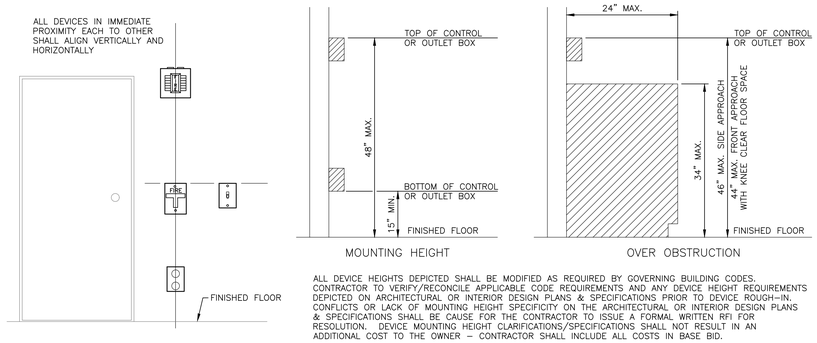


SURFACE PANEL MOUNTING

SCALE: N.T.S.

7

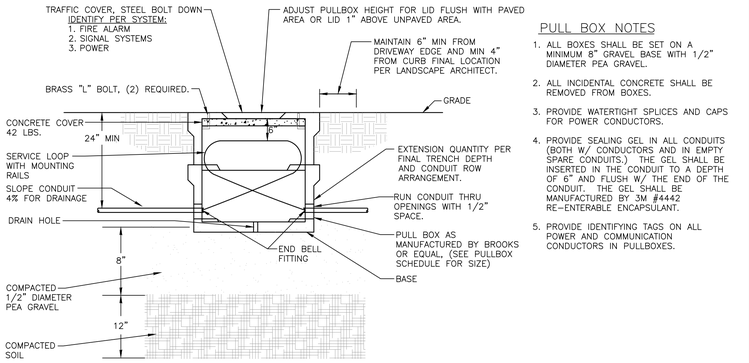


ALL DEVICE HEIGHTS DEPICTED SHALL BE MODIFIED AS REQUIRED BY GOVERNING BUILDING CODES. CONTRACTOR TO VERIFY/RECONCILE APPLICABLE CODE REQUIREMENTS AND ANY DEVICE HEIGHT REQUIREMENTS DEPICTED ON ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS PRIOR TO DEVICE ROUGH-IN. CONFLICTS OR LACK OF MOUNTING HEIGHT SPECIFICITY ON THE ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS SHALL BE CAUSE FOR THE CONTRACTOR TO ISSUE A FORMAL WRITTEN RFI FOR RESOLUTION. DEVICE MOUNTING HEIGHT CLARIFICATIONS/SPECIFICATIONS SHALL NOT RESULT IN AN ADDITIONAL COST TO THE OWNER – CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.

DEVICE ALIGNMENT & MOUNTING HEIGHT DETAILS

SCALE: N.T.S.

4



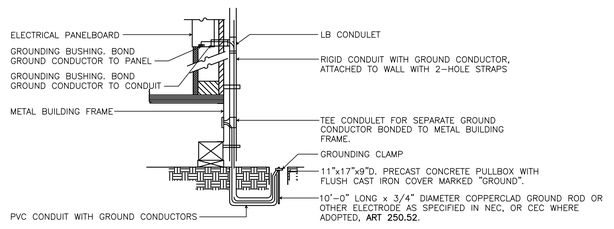
PULL BOX NOTES

1. ALL BOXES SHALL BE SET ON A MINIMUM 8" GRAVEL BASE WITH 1/2" DIAMETER PEA GRAVEL.
2. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
3. PROVIDE WATERTIGHT SPLICES AND CAPS FOR POWER CONDUCTORS.
4. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS.) THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY 3M #4442 RE-ENTERABLE ENCAPSULANT.
5. PROVIDE IDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULLBOXES.

FLUSH-IN-GRADE PULL BOX DETAIL

SCALE: N.T.S.

1



NOTES:

1. METAL MODULAR BUILDINGS: WHEN METAL BUILDINGS ARE MADE OF COMPONENTS, EACH BUILDING COMPONENT, INCLUDING STEEL RAMPS, MUST BE ELECTRICALLY BONDED TOGETHER IN A MANNER ACCEPTABLE TO DSA/SSS. PAINT ON THE SURFACE WILL INHIBIT PASSAGE OF ELECTRICAL CURRENT; THEREFORE, BOLTED CONNECTIONS OF COMPONENT PARTS ARE NOT AN ACCEPTABLE ELECTRICAL BOND.
2. WOOD MODULAR BUILDINGS: IN WOOD FRAME MODULAR BUILDINGS, THE ELECTRICAL SYSTEM MUST BE GROUNDED AS REQUIRED IN TITLE 24, C.E.C.
3. GROUNDING: THE ELECTRICAL CIRCUITS ARE USUALLY PROPERLY GROUNDED, HOWEVER, IT IS ALSO NECESSARY TO INDEPENDENTLY GROUND THE STEEL FRAMES. THIS IS PARTICULARLY IMPORTANT WHEN THE BUILDING IS SUPPORTED ON A FOUNDATION MADE OF WOOD.
4. INSPECTOR OF RECORD (I.O.R.) SHALL WITNESS GROUND TEST AND SUBMIT A COPY OF THE REPORT TO THE ARCHITECT. ALL BUILDING COMPONENTS MUST BE ELECTRICALLY BONDED TOGETHER AND MUST BE INDEPENDENTLY GROUNDED. ALL GROUNDING SYSTEMS ARE TO BE TESTED WITH A MEGGER UNIT OR IN AN OTHERWISE ACCEPTABLE MANNER. REFER TO C.E.C. SECTIONS 250-81 AND 250-83 FOR SPECIFIC GROUNDING REQUIREMENTS.
5. SIZE OF CONDUCTORS SHALL COMPLY WITH NEC. TABLE 250-95.
6. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC. 250-81). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL CONDUCTOR GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FEET INTO THE SOIL IF AVAILABLE (N.E.C. 250-81 AND NEC. 250-83).
7. ALL MODULES OF METAL FRAME BUILDINGS AND RAMPS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
8. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (NEC. 250-84).
9. SEE SPECIFICATIONS FOR TESTING OF GROUNDING REQUIRED.
10. ALL ELECTRICAL WORK TO MEET THE REQUIREMENTS OF THE STATE ELECTRICAL CODES. PART 3 OF TITLE 24, CAC, WHICH REQUIRES PROPER GROUNDING OF ALL ELECTRICAL CIRCUITS, EQUIPMENT, ETC. FOR PUBLIC SCHOOL BUILDING(S), REGARDLESS OF THE TYPE OF CONSTRUCTION.

RELOCATABLE BUILDING GROUNDING DETAIL

SCALE: N.T.S.

2

NOTE: POLES WITH TOTAL HEIGHTS LESS THAN 35' HIGH ARE NOT REQUIRED TO BE REVIEWED BY DSA.

POST TOP FIXTURE DETAIL

SCALE: N.T.S.

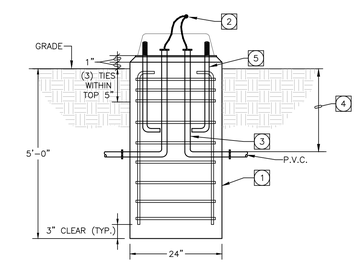
8

1. FIRESTOP SLEEVES WITH STI'S SPEC SEAL PUTTY (#SSP100) OR EQUAL, IN AND AROUND CABLES AT BOTH ENDS PER MANUFACTURER'S DIRECTIONS.
2. 1/2" BEAD 30-YEAR SILICONE CAULK (CLEAR) INTERIOR WALL TYPICAL.
3. SILICONE CAULK PUSHED INTO BOTH WALL VOIDS FOR A WEATHERTIGHT SEAL.
4. 1/2" BEAD 50-YEAR SILICONE CAULK (CLEAR) EXTERIOR WALL TYPICAL.
5. CABLES TO BE SUPPORTED WITHIN 24" OF BUSHING WITH APPROVED CAT-6 SUPPORT EACH SIDE.
6. MAINTAIN MINIMUM 2" BEND RADIUS FOR CABLES,
7. CONTRACTOR SHALL INSTALL LIQUID TIGHT SIDE BY SIDE W/ MINIMUM 2" SEPARATION. ENVIRONMENT WILL DICTATE BEST APPROACH. CONFIRM WITH AHJ PRIOR TO INSTALLATION. FLEXIBLE CONDUIT TO ALLOW 4 INCHES OF MOVEMENT IN ANY HORIZONTAL DIRECTION.
8. WEATHERPROOF JUNCTION BOX, SIZED AS REQUIRED.

TYPICAL LIQUID TIGHT SLEEVE DETAIL

SCALE: N.T.S.

5



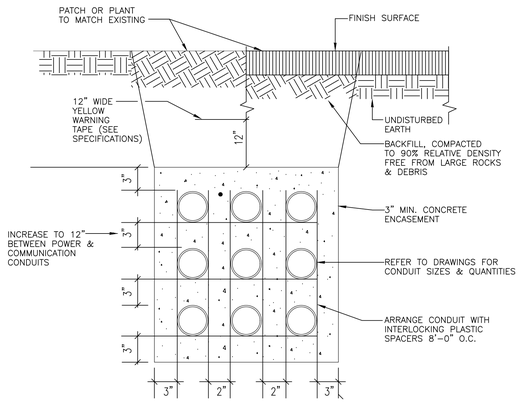
NOTE: MAX HEIGHT OF LIGHT POLE = 12'-0". MAX WEIGHT OF LIGHT FIXTURE = 35 LBS.

1. 2"-0" ø x 5'-0" EMBED. CONC. FTG. WITH (10) #6 VERT. AND #3 TIES @ 6" O.C.
2. BOND EQUIPMENT GROUND TO POLE.
3. BRANCH CIRCUIT CONDUIT PER SITE PLAN.
4. PROVIDE MINIMUM COVER OF 24" FROM FINISH GRADE.
5. POLE ANCHOR BOLTS PER MANUFACTURER SPEC'S.

POLE BASE 'A' DETAIL

SCALE: N.T.S.

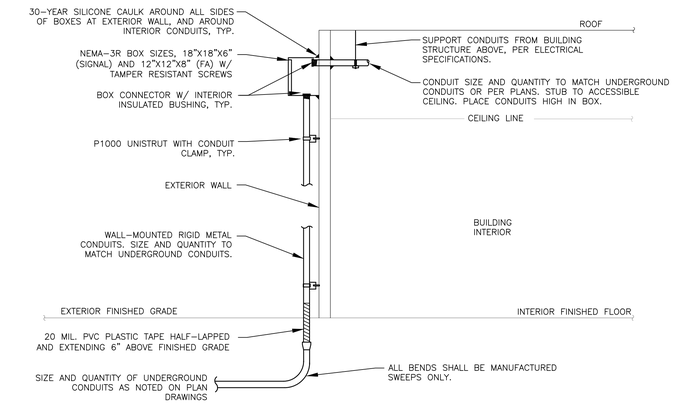
9



TYPICAL UNDERGROUND CONDUIT TRENCH DETAIL

SCALE: N.T.S.

6



NOTES:

1. ALL BOXES TO BE SECURED TO BUILDING STRUCTURE USING MIN. 3/8" X 2" WALL ANCHORS/LAG BOLTS, MINIMUM 4 PER BOX.
2. 30-YEAR SILICONE CAULK AROUND ALL PENETRATIONS, BOXES AND ALL THREADS AS REQUIRED.
3. SEAL ALL UNDERGROUND CONDUITS PER COMMUNICATION PATHWAY NOTES, GENERAL PROJECT NOTES, AND PROJECT SPECIFICATIONS.
4. TERMINATE UNDERGROUND FIRE ALARM CONDUITS INTO DEDICATED FIRE ALARM BOX. ALL OTHER UNDERGROUND SIGNAL CONDUITS TERMINATE INTO SIGNAL BOX.

EXTERIOR JUNCTION BOX DETAIL

SCALE: N.T.S.

3

CHECKED BY:
Checker
DRAWN BY:
Author

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-121846 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 11/05/2021

PBKWLC

ARCHITECT PBK Architects, Inc.
SOUTHERN CALIFORNIA PBK.com
8163 Rochestser Avenue, Suite 100
Rancho Cucamonga
California 91730-0729
909-987-0909 P

tk1sc COLLABORATIVE
11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4160 www.tk1sc.com
Project Leader - Nikolas Bruno
tk1sc Job #: 2021-0458

Wedgeworth ES Portable Relocation

16949 WEDGEWORTH DR
HACIENDA HEIGHTS, CA 91745
CONSTRUCTION DOCUMENTS

DSA APPL. NO.: 03-121846 DSA FILE NO.: 19-38

ENGINEER

REGISTERED PROFESSIONAL ENGINEER EDWARD W. SWATEK No. E15610 EXP. 12/31/2021 ELECTRICAL STATE OF CALIFORNIA

CLIENT
HACIENDA LA PUENTE USD

DATE	PROJECT NUMBER
10/12/2021	######

DRAWING HISTORY

No.	Description	Date

CONSTRUCTION DOCUMENTS

DETAILS

E4.01