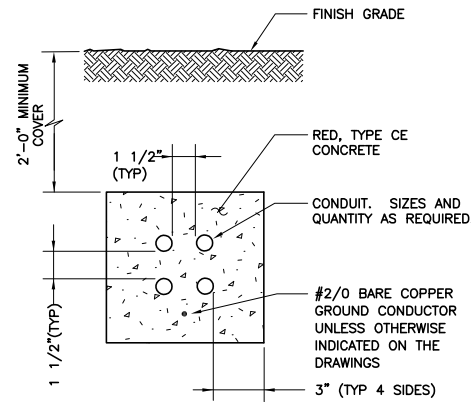
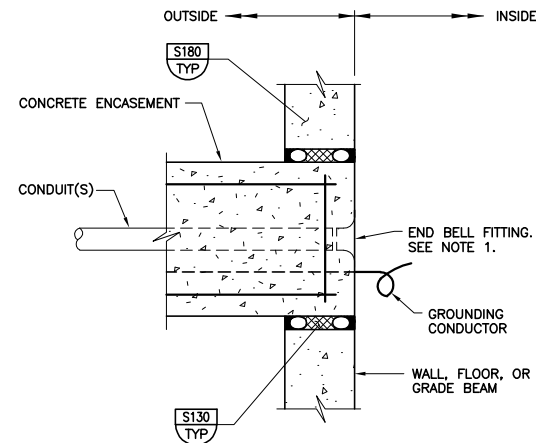


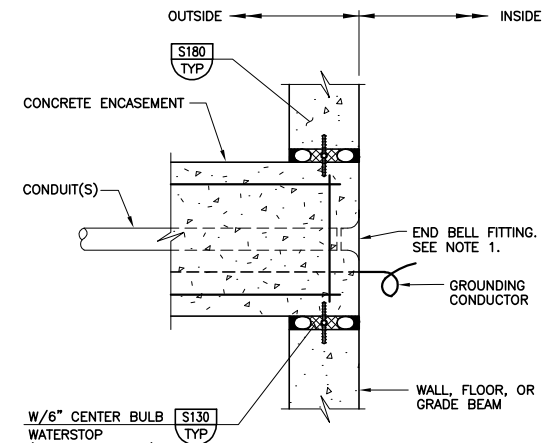
E100 REINFORCED ENCASEMENT FOR ELECTRICAL CONDUITS 01-22-99



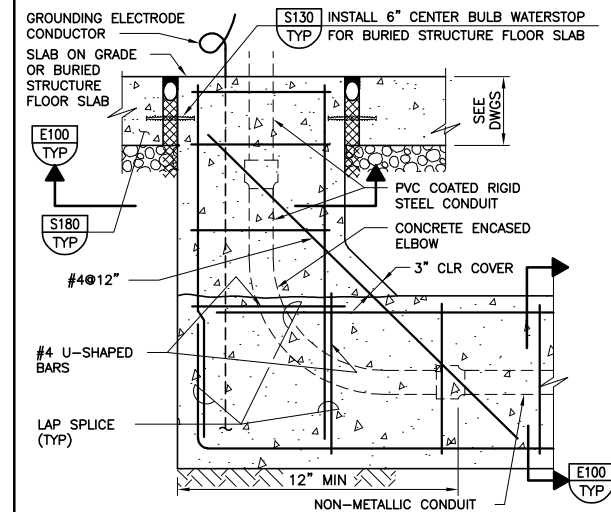
E102 UNREINFORCED ENCASEMENT FOR ELECTRICAL CONDUITS 01-22-99



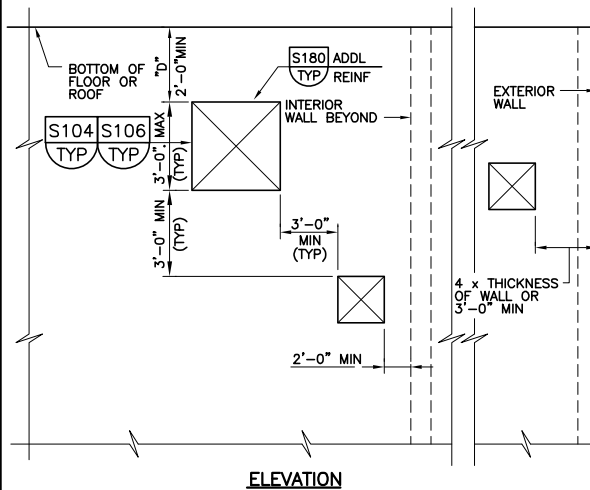
E104 ENCASED CONDUITS AT MANHOLE OR STRUCTURES W/O WATERSTOP 06-01-03



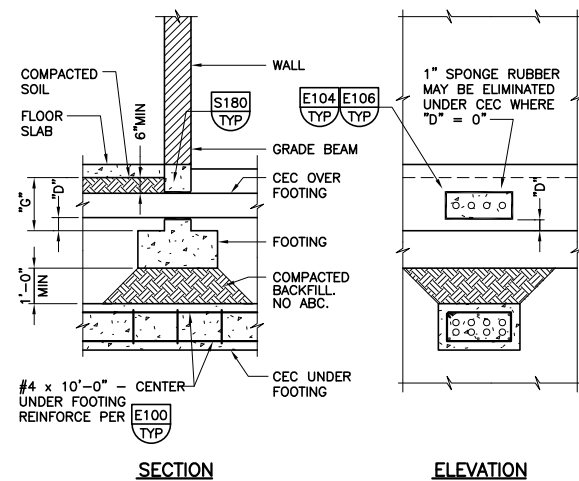
E106 ENCASED CONDUITS AT MANHOLE OR STRUCTURES WITH WATERSTOP 06-01-03



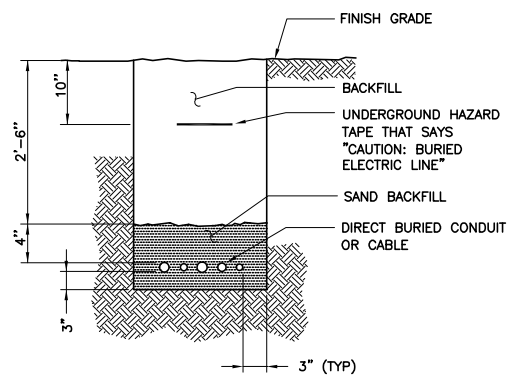
E108 RISER FROM NON-METALLIC DUCT FOR SLAB ON GRADE & BURIED STRUCTURE FLOOR SLAB NTS



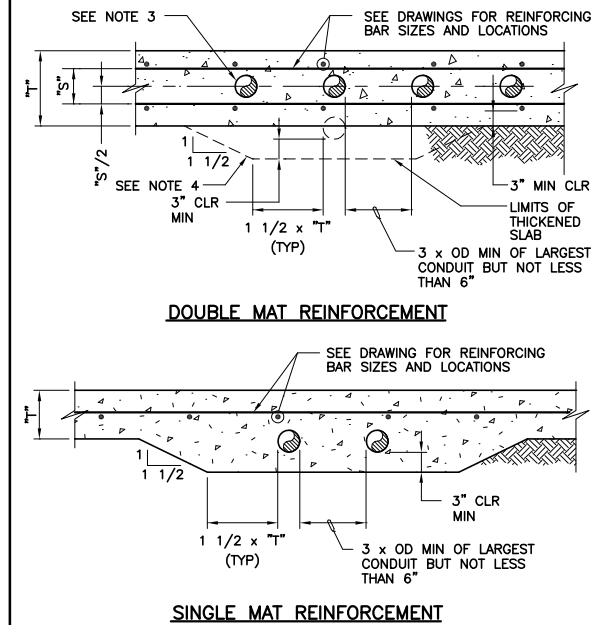
E120 WALL OPENINGS FOR ELECTRICAL CONDUIT CLUSTERS OR CONCRETE ENCASED CONDUITS 09-23-04



E130 CONCRETE ENCASED CONDUITS CROSSING BUILDING FOOTING 11-01-96



E132 DIRECT BURIED CONDUIT OR CABLE 11-01-96



E134 CONDUITS EMBEDDED IN CONCRETE SLAB ON GRADE 01-22-99

Last Saved By: BGS(wco) 4-01-05 02:48am

CONFORMED DOCUMENTS FOR CONSTRUCTION

DESIGNED
DB
DRAWN
SJB
CHECKED
DL
DATE
JULY, 2005

DISCIPLINE ENGINEER

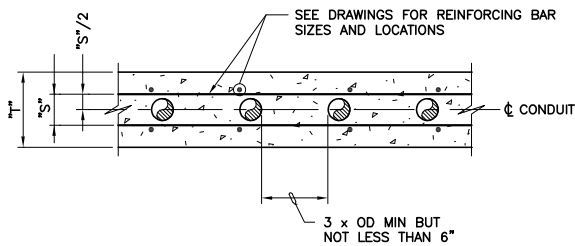
PROJECT ENGINEER



CITY OF PETALUMA
ELLIS CREEK WATER RECYCLING FACILITY
TYPICAL
TYPICAL DETAILS
ELECTRICAL

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

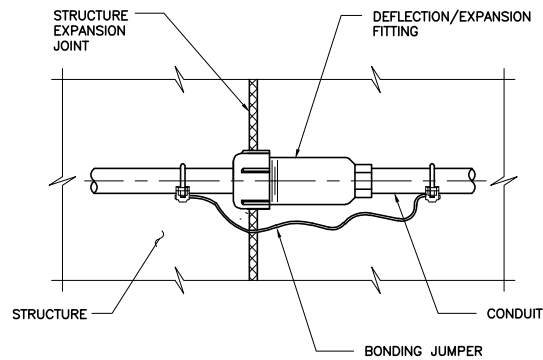
JOB NO.
6069B.10
DRAWING NO.
TE-1
SHEET NO.
37 OF 740



NOTES:

1. OD = OUTSIDE DIAMETER OF CONDUIT.
2. "S" = CLEAR SPACE BETWEEN REINFORCING.
3. MAX OD = SMALLER OF "T"/4 OR "S"-1/2".
4. CONDUITS IN SLAB WHICH IS PARALLEL TO BEAMS AND WALLS SUPPORTING THE SLAB SHALL NOT BE PLACED CLOSER THAN 4 x "T" FROM THE FACE OF THE BEAMS OR WALLS.
5. CONDUITS CROSSING SUPPORTING BEAMS SHALL BE INSTALLED PERPENDICULAR TO THE BEAM.
6. METAL CONDUITS SHALL BE ISOLATED WITH 3 WRAPS OF 10 MIL PVC TAPE AT THE POINT OF CONTACT WITH REINFORCING.

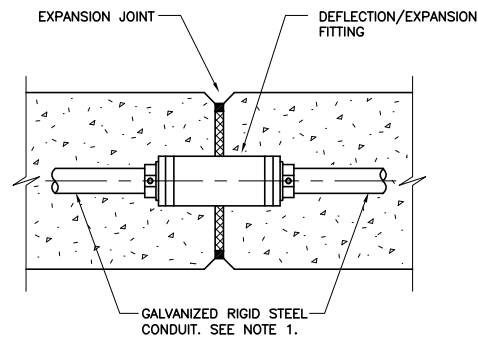
E136 CONDUITS EMBEDDED IN ELEVATED CONCRETE SLAB OR WALL
TYP 06-01-98



NOTES:

1. WHERE SEVERAL CONDUITS ARE INSTALLED, FITTINGS MAY BE STAGGERED. BUT, IN NO CASE SHALL FITTINGS BE MORE THAN 5'-0" FROM STRUCTURE'S EXPANSION JOINT.
2. FOR PVC COATED CONDUIT, SHAVE BACK COATING TO ALLOW FOR MOVEMENT OF FITTING.

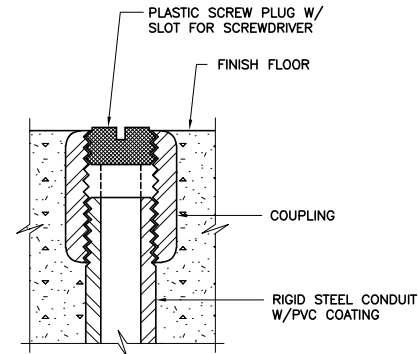
E142 CONDUIT DEFLECTION/EXPANSION FITTING FOR EXPOSED CONDUIT
TYP 11-01-96



NOTE:

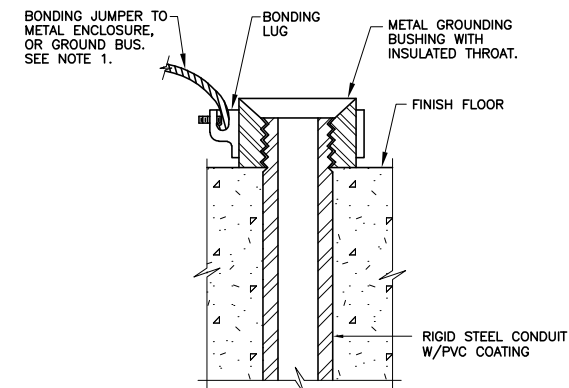
1. FOR EMBEDDED PVC CONDUIT RUNS, PROVIDE ADDITIONAL FITTINGS REQUIRED TO MAKE TRANSITION FROM PVC TO GALVANIZED RIGID STEEL CONDUIT AT DEFLECTION/EXPANSION FITTING.

E144 CONDUIT DEFLECTION/EXPANSION FITTING FOR EMBEDDED CONDUIT
TYP 11-01-96



SPARE RACEWAY FLOOR STUB-UP

E150 CONDUIT FLOOR STUB-UP
TYP SHEET 1 OF 2 09-01-00

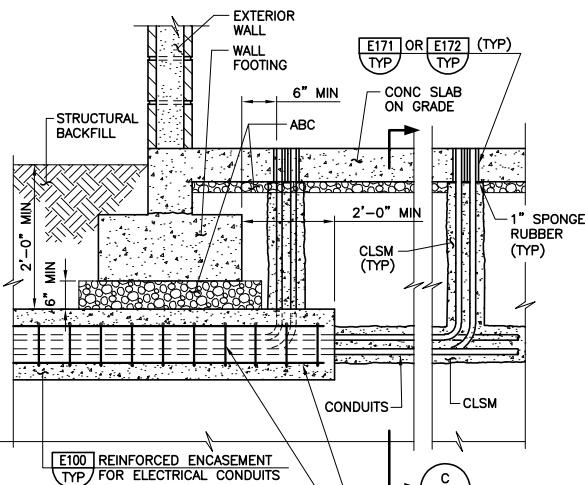


FLOOR STUB-UP INTO ELECTRICAL ENCLOSURES

NOTE:

1. SIZE BONDING JUMPER PER NEC, ARTICLE 250.

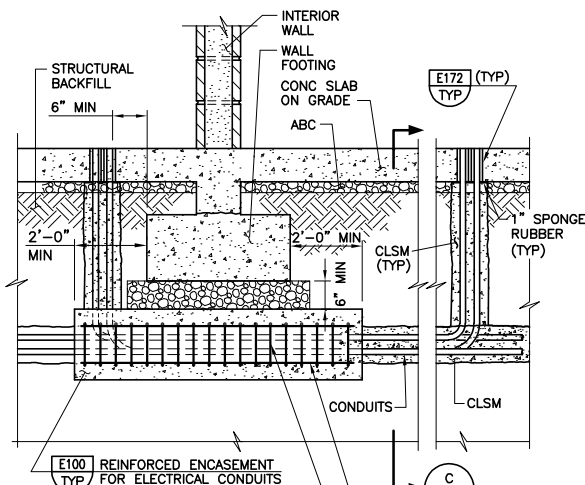
E150 CONDUIT FLOOR STUB-UP
TYP SHEET 2 OF 2 09-01-00



FOR FIRST 10'-0" OF CONC ENCASEMENT, SPACE STIRRUPS @ (ENCASEMENT HEIGHT - 4")
2

ADD #4 x 10'-0" @ 12". ALTERNATE W/TYP REINF @ 6" SPACING. (TYP T & B OF ENCASEMENT)

SECTION - EXTERIOR WALL FOOTING

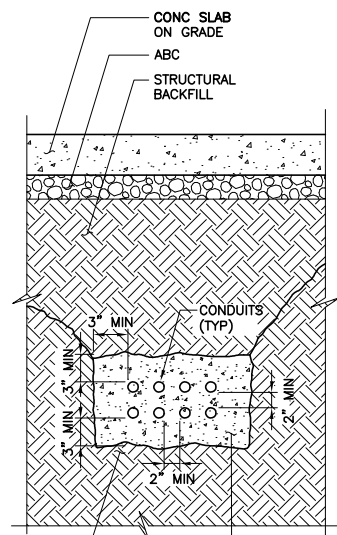


SPACE STIRRUPS @ (ENCASEMENT HEIGHT - 4")
2

ADD #4 x 10'-0" @ 12". ALTERNATE W/TYP REINF @ 6" SPACING. (TYP T & B OF ENCASEMENT)

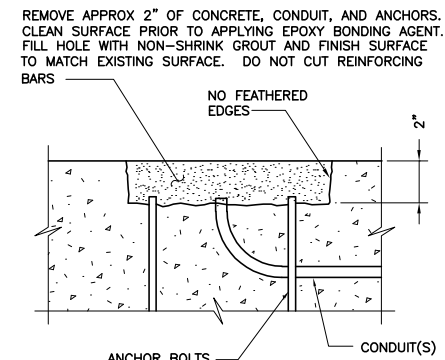
SECTION - INTERIOR WALL FOOTING

E152 DIRECT BURIED ELECTRICAL CONDUITS LOCATED UNDER STRUCTURE
TYP N SHEET 2 OF 3



SECTION

E152 DIRECT BURIED ELECTRICAL CONDUITS LOCATED UNDER STRUCTURE
TYP N SHEET 3 OF 3 09-23-04



E160 SEALING ABANDONED CONDUIT AND ANCHOR BOLTS
TYP 11-01-96

Last Saved By: SSC - 4-01-05 02:49pm

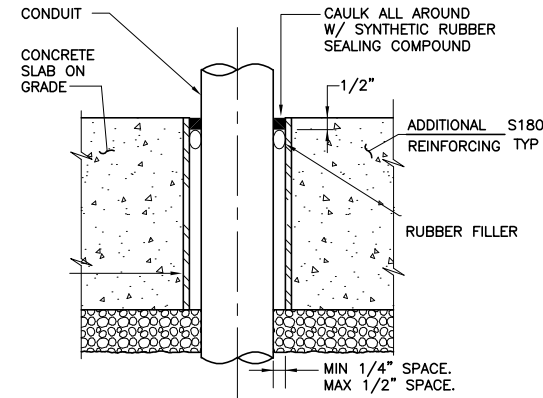
REV	DATE	BY	DESCRIPTION

DESIGNED DB	DISCIPLINE ENGINEER
DRAWN SJB	PROJECT ENGINEER
CHECKED DL	REGISTERED PROFESSIONAL ENGINEER No. C38950 Exp. 3/31/07 CIVIL STATE OF CALIFORNIA
DATE JULY, 2005	PARTNER REGISTERED PROFESSIONAL ENGINEER No. 19174 Exp. 9/30/05 CIVIL STATE OF CALIFORNIA

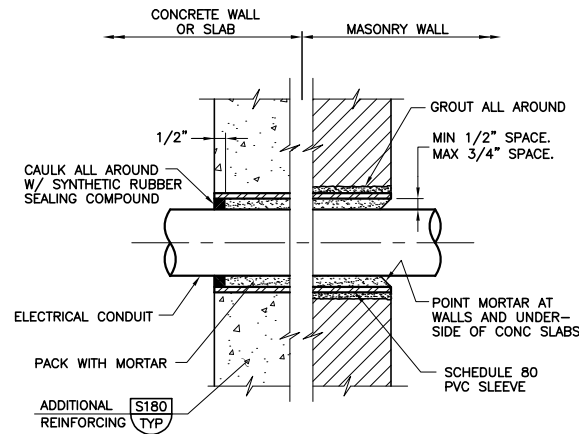


CITY OF PETALUMA	
ELLIS CREEK WATER RECYCLING FACILITY	
TYPICAL TYPICAL DETAILS ELECTRICAL	

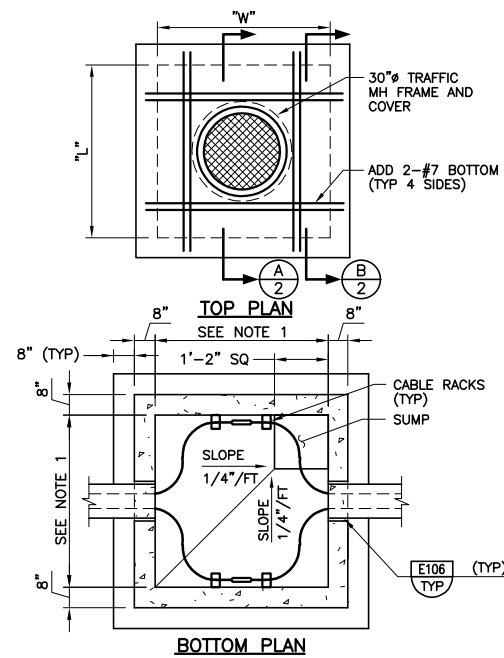
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 6069B.10 DRAWING NO. TE-2 SHEET NO. 38 OF 740
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E172 SLEEVE INSTALLATION THROUGH CONCRETE SLABS ON GRADE
TYP NS 06-01-04

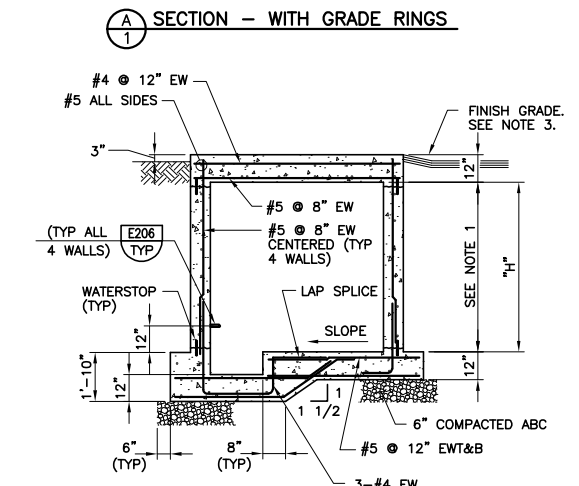
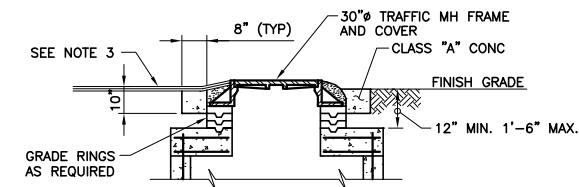


E174 CONDUIT SLEEVE INSTALLATION THROUGH MASONRY WALLS AND FLOOR SLABS
TYP NS 08-01-04C

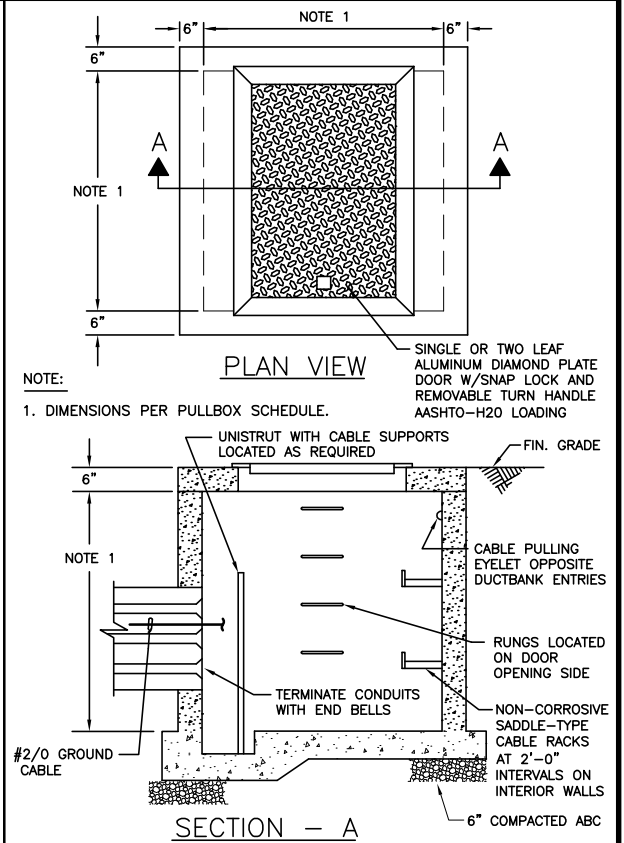


E202 ELECTRICAL MANHOLE WITH SUMP
TYP N SHEET 1 OF 2 06-01-03

NOTES:
1. MIN DIMENSIONS PER PULLBOX/MANHOLE SCHEDULE.
2. SEE TYPICAL DETAIL S180 FOR ADDITIONAL REINFORCEMENT AT OPENINGS.
3. WHERE INSTALLED IN PAVING, THE TOP OF THE MANHOLE SHALL BE 1" ABOVE FINISH GRADE. SLOPE PAVEMENT AWAY AT 3% GRADE.
4. INSTALL NON-CORROSIVE SADDLE-TYPE CABLE RACKS AT 2'-0" INTERVALS ON INTERIOR WALLS.

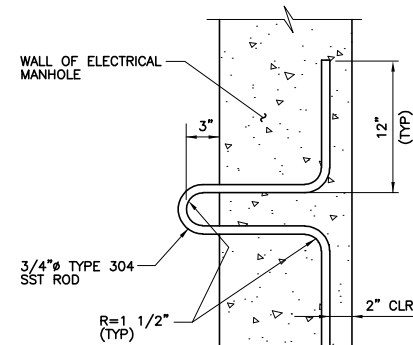


E202 ELECTRICAL MANHOLE WITH SUMP
TYP N SHEET 2 OF 2 06-01-03

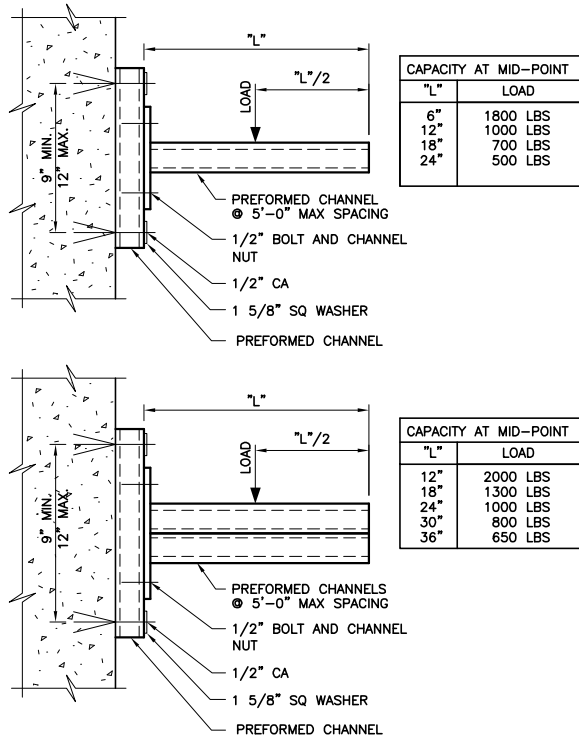


E203 TRAFFIC RATED ELECTRICAL PULLBOX
TYP NTS

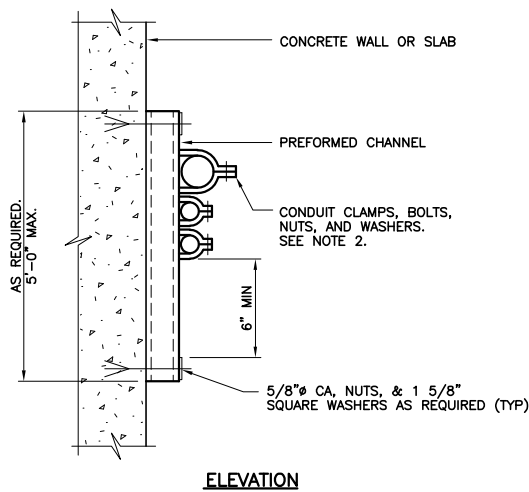
NOTE:
1. DIMENSIONS PER PULLBOX SCHEDULE.



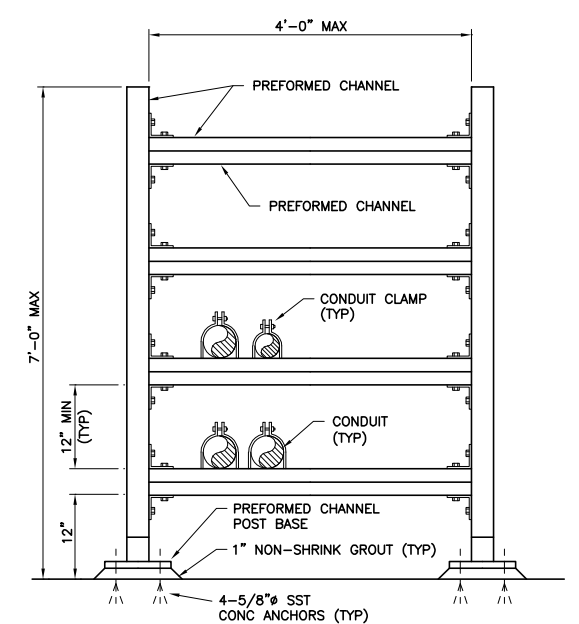
E206 PULLING EYE
TYP 09-01-00



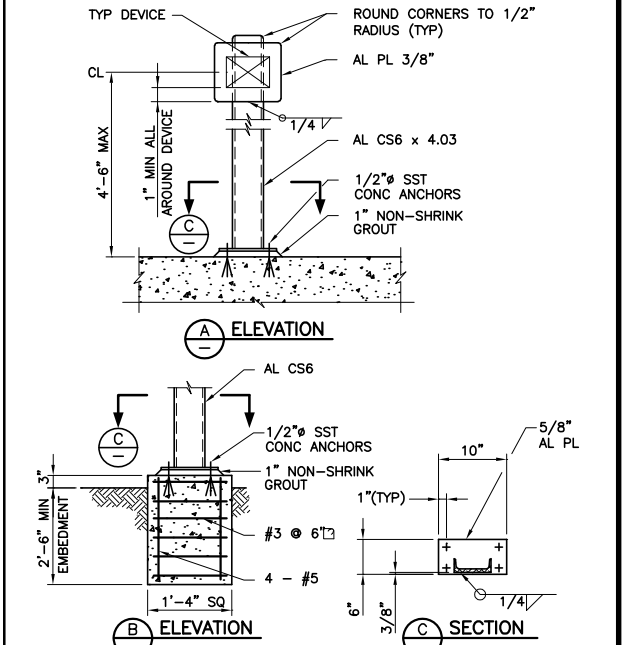
E302 CONDUIT SUPPORT
TYP 06-01-03



E304 CONDUIT SUPPORT
TYP 06-01-03



E310 CONDUIT SUPPORT RACK
TYP 11-01-96



E330 DEVICE SUPPORT AND MOUNTING
TYP 01-22-99

Last Saved By: E330(UC) 4-01-05 09:50am

CONFORMED DOCUMENTS FOR CONSTRUCTION

DESIGNED	DB
DRAWN	SJB
CHECKED	DL
DATE	JULY, 2005

DISCIPLINE ENGINEER
PROJECT ENGINEER

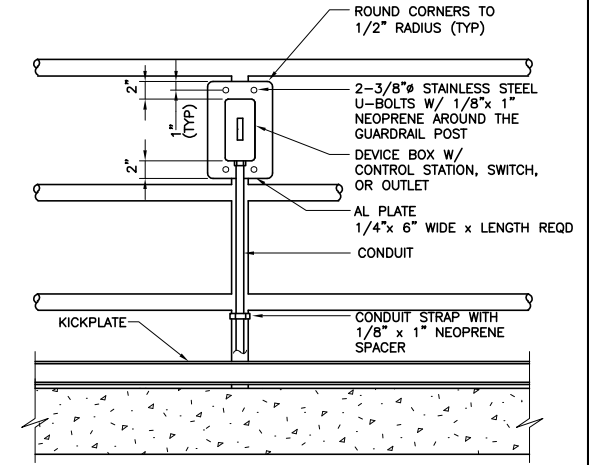
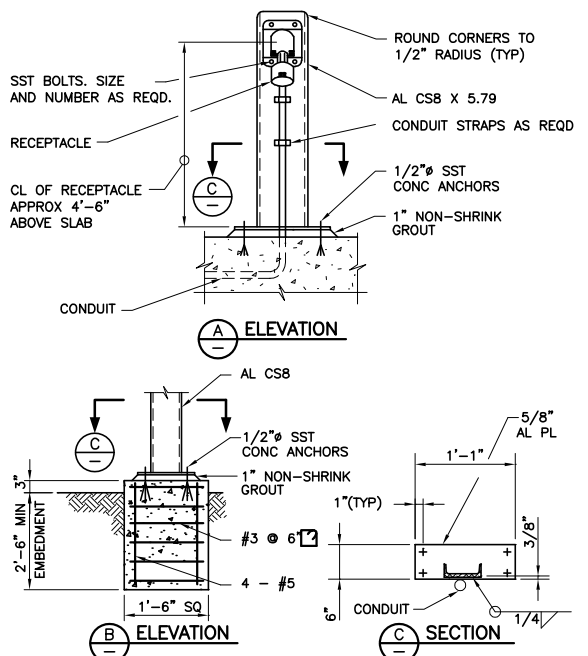
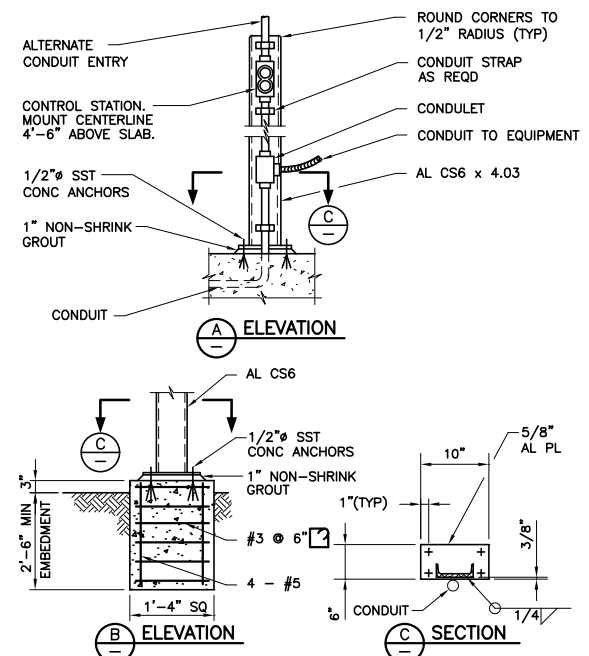
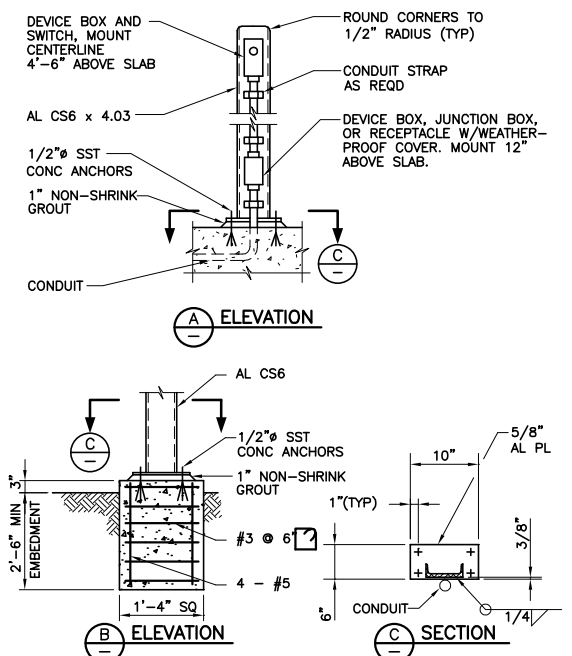
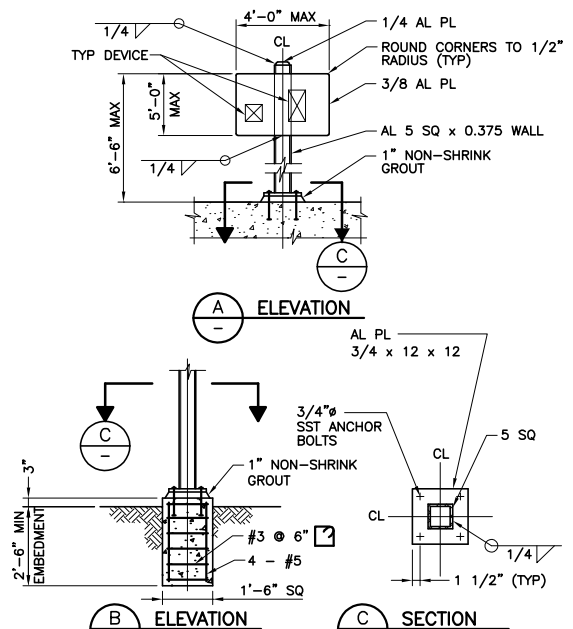
REGISTERED PROFESSIONAL ENGINEER
DOUGLAS W. WILSON
No. C38950
Exp. 3/31/07
CIVIL
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
G. WILLIAM KNORR
No. 19174
Exp. 9/30/05
CIVIL
STATE OF CALIFORNIA



CITY OF PETALUMA
ELLIS CREEK WATER RECYCLING FACILITY
TYPICAL
TYPICAL DETAILS
ELECTRICAL

VERIFY SCALES	JOB NO. 6069B.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. TE-3
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 39 OF 740



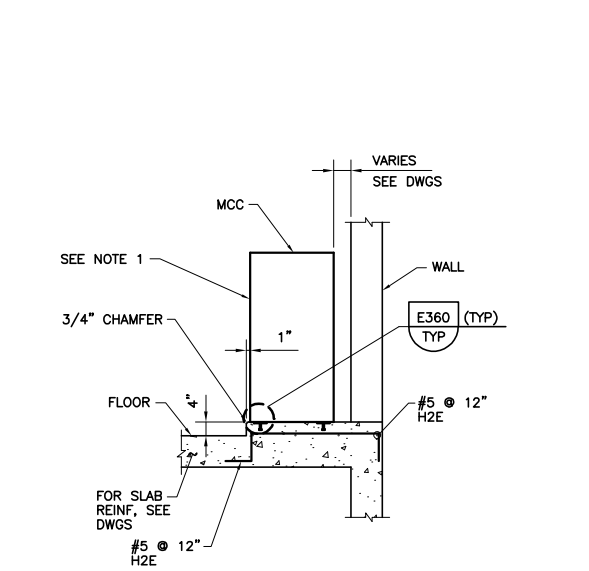
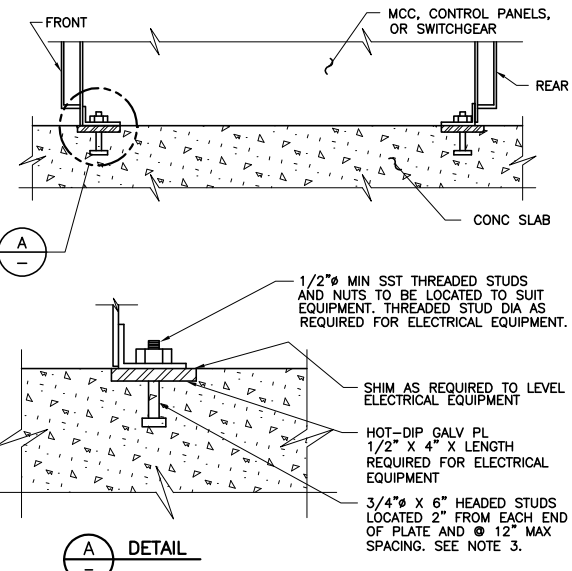
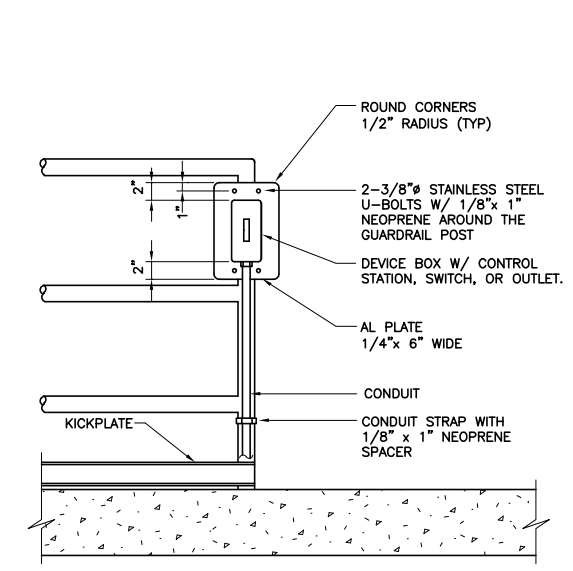
E332 DEVICES SUPPORT AND MOUNTING
TYP 06-01-98

E334 SWITCH AND RECEPTACLE SUPPORT MOUNTING
TYP 06-01-98

E336 CONTROL STATION
TYP 06-01-98

E338 LARGE RECEPTACLE SUPPORT AND MOUNTING
TYP 06-01-98

E350 GUARDRAIL MOUNTED CONTROL STATION, SWITCH, OR OUTLET
TYP 11-01-96



E352 GUARDRAIL MOUNTED CONTROL STATION, SWITCH, OR OUTLET
TYP 11-01-96

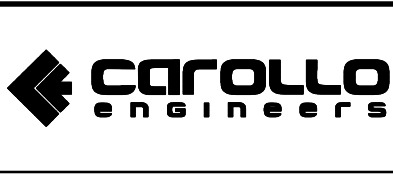
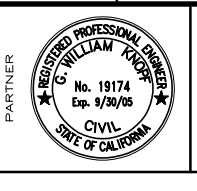
E360 ELECTRICAL EQUIPMENT ANCHORAGE
TYP 09-01-00

E362 ELECTRICAL EQUIPMENT HOUSE KEEPING PAD
TYP SHEET 1 OF 2 09-01-00

Last Saved By: GWS17, 4-01-05, 02:51:10pm

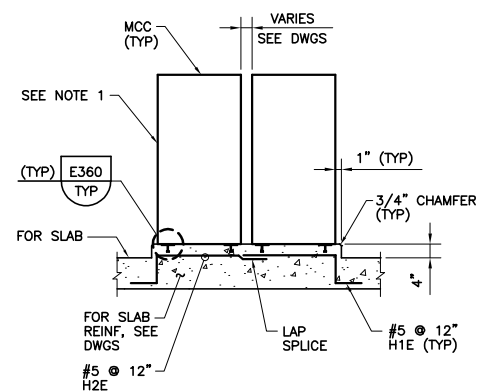
REV	DATE	BY	DESCRIPTION

DESIGNED DB	DISCIPLINE ENGINEER
DRAWN SJB	
CHECKED DL	
DATE JULY, 2005	



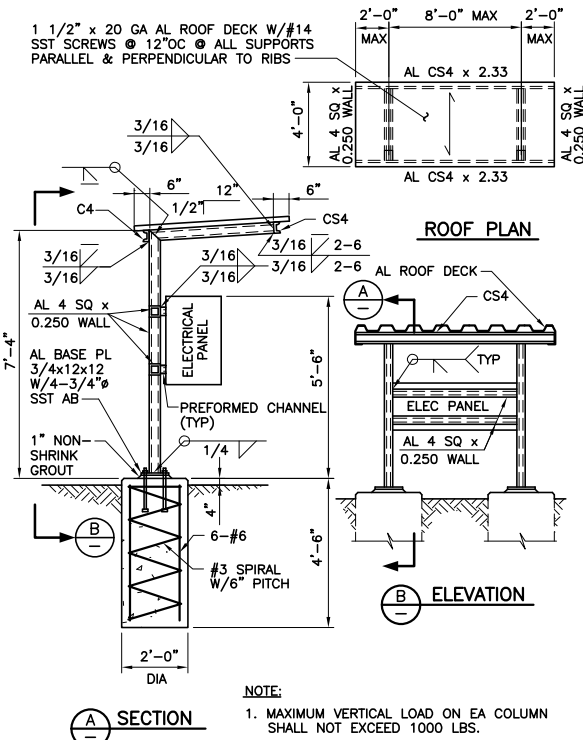
CITY OF PETALUMA
ELLIS CREEK WATER RECYCLING FACILITY
TYPICAL
TYPICAL DETAILS
ELECTRICAL

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 6069B.10
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. TE-4
	SHEET NO. 40 OF 740



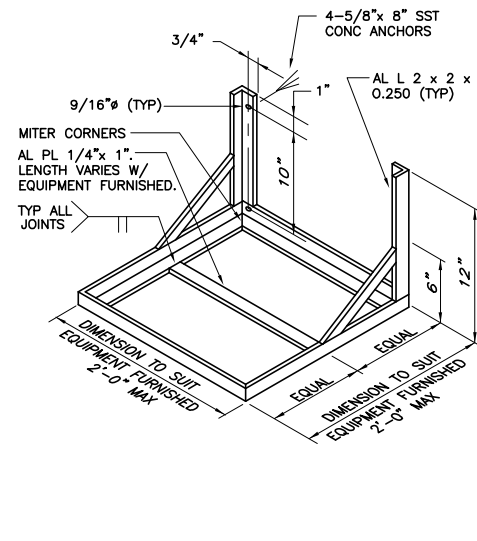
NOTE:
1. INSTALL HANDLE EXTENSIONS ON THE UPPERMOST OPERATORS SUCH THAT UL 845'S "TWO METER RULE" IS SATISFIED.

E362 ELECTRICAL EQUIPMENT HOUSE KEEPING PAD
TYP SHEET 2 OF 2 09-01-00



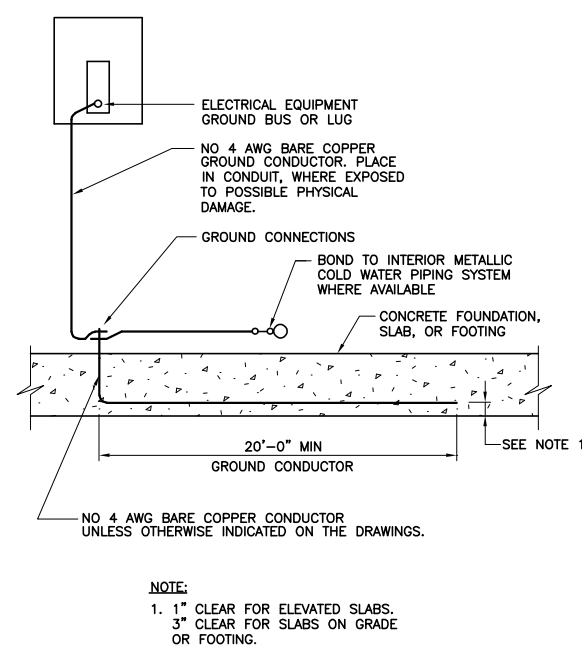
NOTE:
1. MAXIMUM VERTICAL LOAD ON EA COLUMN SHALL NOT EXCEED 1000 LBS.

E370 ELECTRICAL SWITCHRACK
TYP 06-01-98



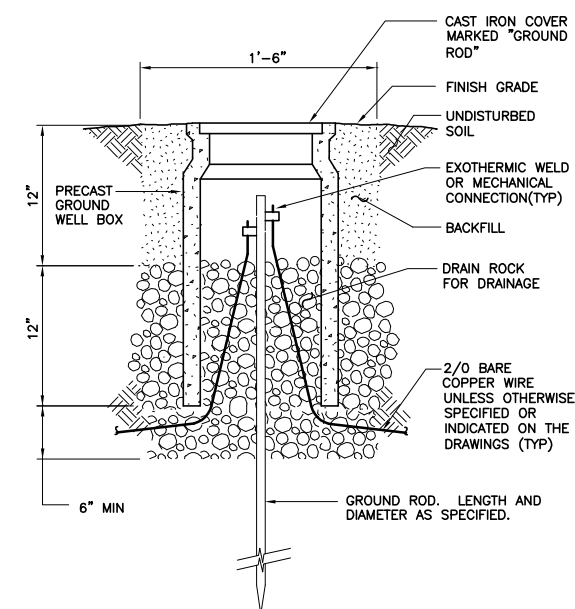
NOTE:
1. MAXIMUM LOAD = 250 POUNDS.

E380 ELECTRICAL EQUIPMENT MOUNTING BRACKET
TYP 06-01-98

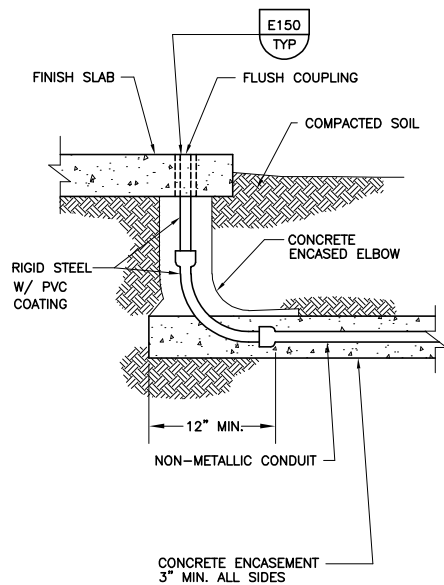


NOTE:
1. 1" CLEAR FOR ELEVATED SLABS.
3" CLEAR FOR SLABS ON GRADE OR FOOTING.

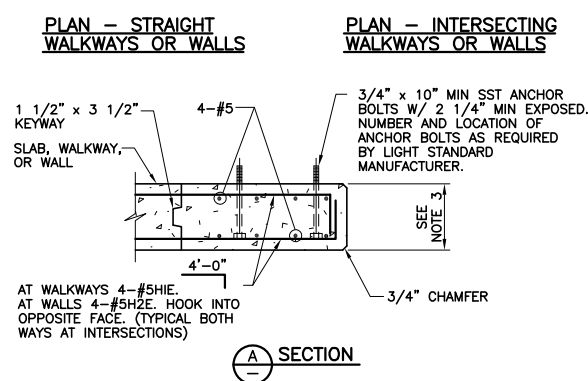
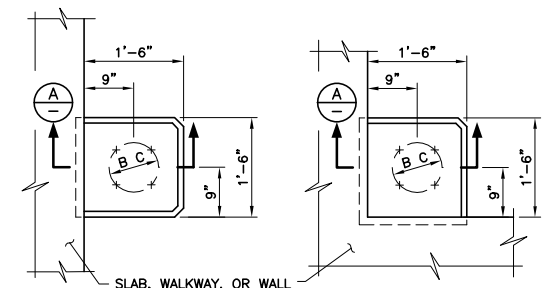
E402 CONCRETE ENCASED GROUND
TYP 11-01-96



E410 GROUND ROD INSTALLATION
TYP 06-01-98

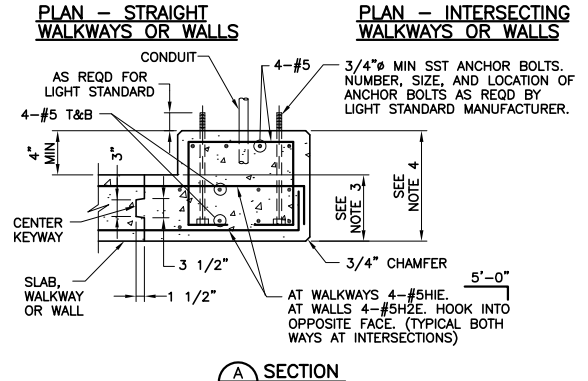
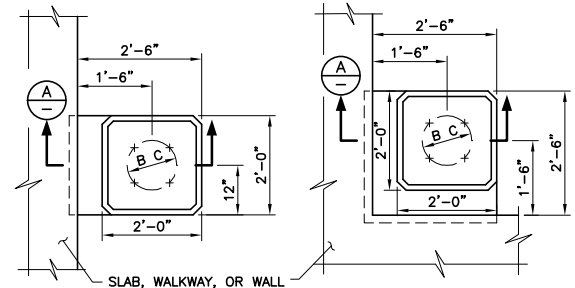


E415 RISER FROM NON-METALLIC DUCT
TYP



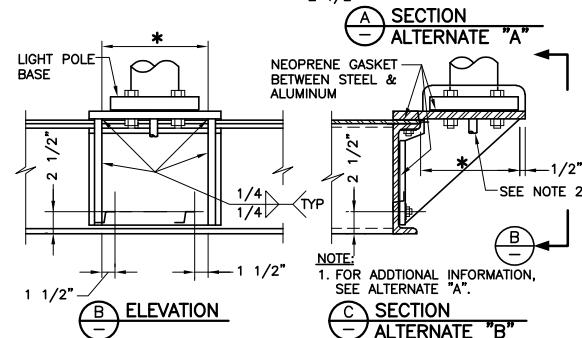
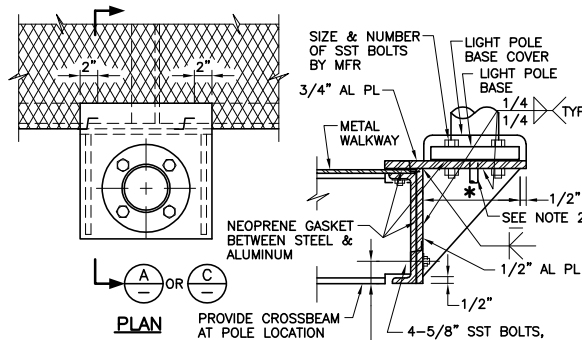
NOTES:
1. SEE ELECTRICAL DRAWINGS FOR CONDUITS.
2. B C = BOLT CIRCLE.
3. MATCH SLAB OR WALKWAY THICKNESS.

E502 LIGHTING STANDARD MOUNTING ON CONCRETE
TYP 06-01-03



NOTES:
1. SEE ELECTRICAL DRAWINGS FOR CONDUIT ROUTING.
2. B C = BOLT CIRCLE.
3. MATCH SLAB OR WALKWAY THICKNESS.
4. THICKNESS = ANCHOR BOLT EMBEDMENT + 4\"/>

E504 LIGHTING STANDARD MOUNTING ON CONCRETE
TYP 06-01-03



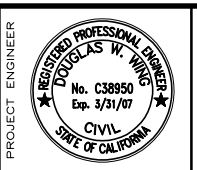
NOTE:
1. * = LARGER OF OD OF LIGHT POLE BASE + 2\", OD OF LIGHT POLE BASE COVER + 1\", AND 12\"/>

E506 LIGHTING POLE BRACKET ON METAL WALKWAY
TYP 06-01-03

Last Saved By: JAS 4-01-05 02:51pm

CONFORMED DOCUMENTS FOR CONSTRUCTION

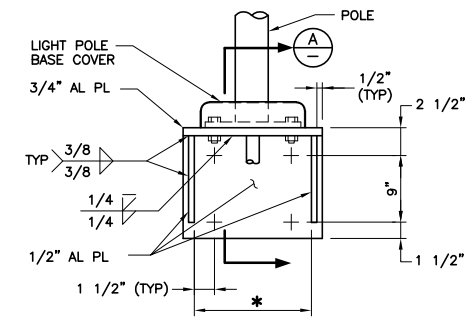
DESIGNED	DB
DRAWN	SNB
CHECKED	DL
DATE	JULY, 2005



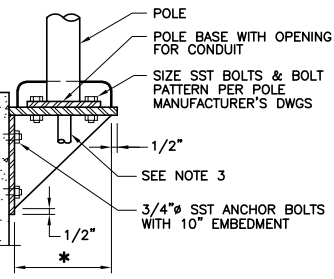
CITY OF PETALUMA
ELLIS CREEK WATER RECYCLING FACILITY
TYPICAL
TYPICAL DETAILS
ELECTRICAL

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 6069B.10
DRAWING NO. TE-5
SHEET NO. 41 OF 740



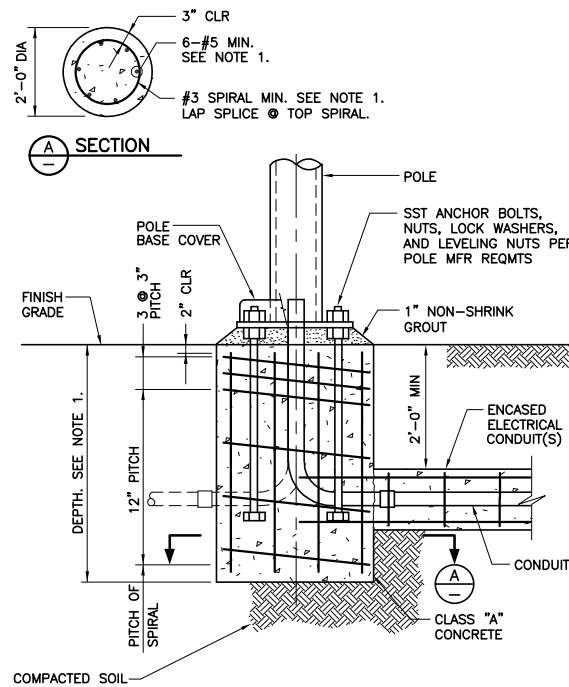
ELEVATION



SECTION

- NOTES:
1. COAT AL SURFACES IN CONTACT WITH CONCRETE PER SPECS.
 2. * = LARGER OF OD OF LIGHT POLE BASE + 2", OD OF LIGHT POLE BASE COVER + 1", AND 12".
 3. CONDUIT. SEE ELECTRICAL DRAWINGS FOR CONDUIT ROUTING. PROVIDE HOLE IN BRACKET TOP PLATE WITH HOLE DIAMETER EQUAL TO CONDUIT OD + 1/2".

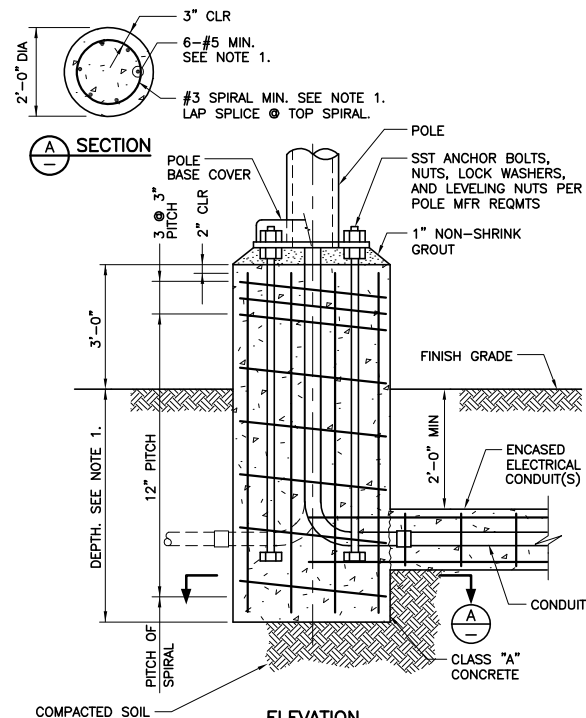
E508 LIGHTING POLE BRACKET ON CONCRETE
TYP N 06-01-03



ELEVATION

- NOTE:
1. IF NOT SPECIFIED OR INDICATED ON THE DRAWINGS, DEPTH AND REINFORCEMENT SHALL BE DETERMINED BY POLE MANUFACTURER.

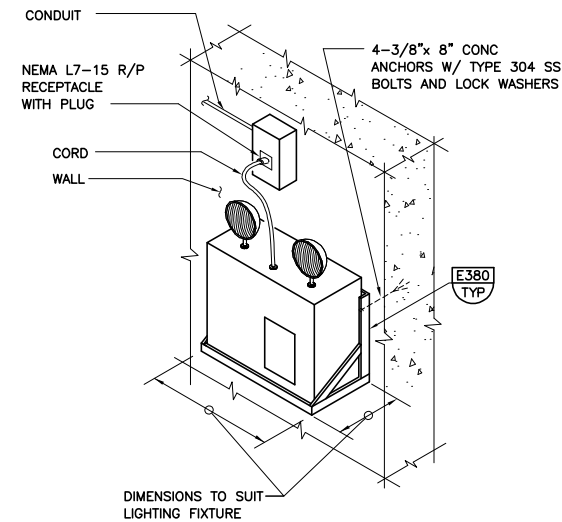
E510 AREA LIGHTING POLE MOUNTING
TYP 06-01-98



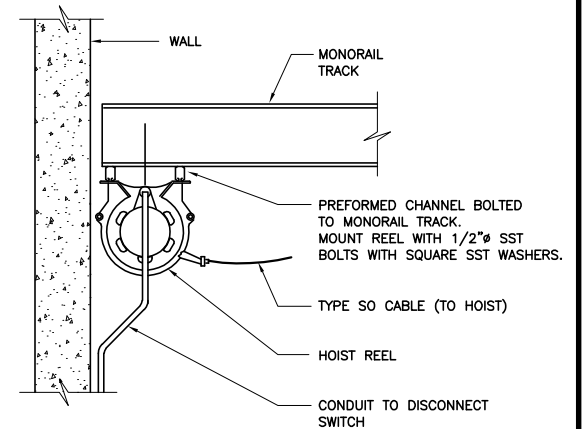
ELEVATION

- NOTE:
1. IF NOT SPECIFIED OR INDICATED ON THE DRAWINGS, DEPTH AND REINFORCEMENT SHALL BE DETERMINED BY POLE MANUFACTURER.

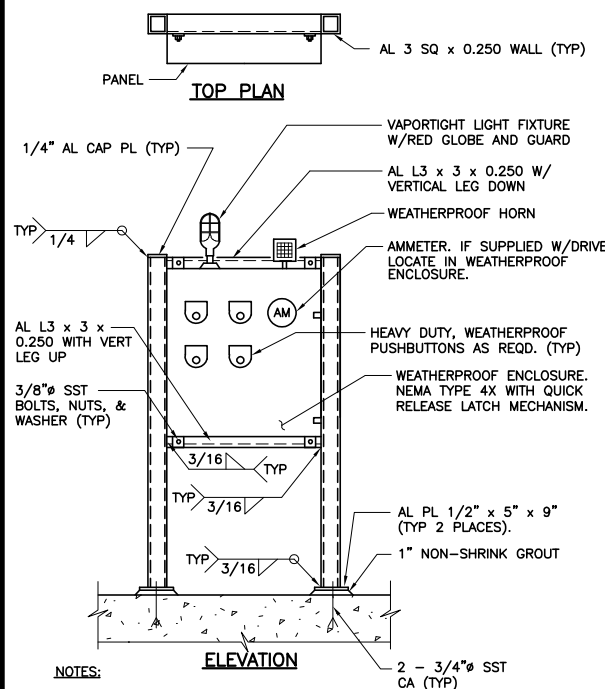
E512 AREA LIGHTING POLE MOUNTING
TYP R 06-01-98



E525 LIGHTING FIXTURE MOUNTING
TYP RT 09-29-04



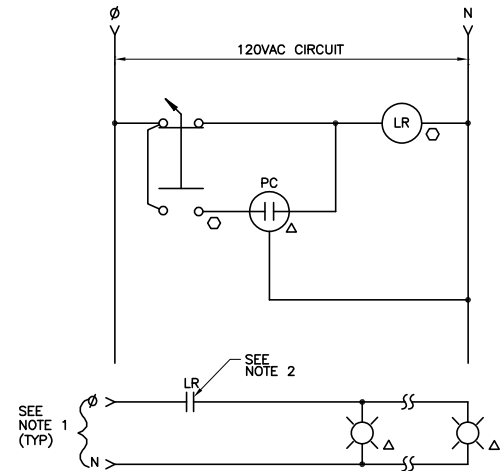
E610 HOIST REEL MOUNTING
TYP 11-01-96



ELEVATION

- NOTES:
1. FOR CONTROL DEVICES, SEE DRAWINGS.
 2. AMMETER AND/OR HORN MAY BE INTEGRAL PART OF ENCLOSURE.
 3. ADJUST LOCATION OF SUPPORT ANGLES TO MATCH MOUNTING HOLES IN PANEL.

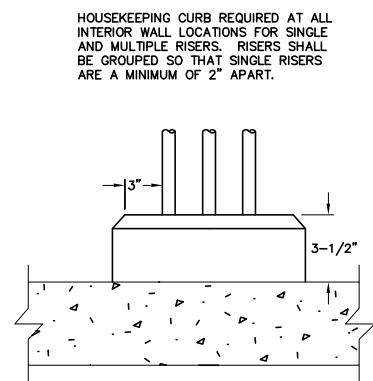
E620 BASIN CONTROL STATION
TYP 06-01-98



- LEGEND
- LR - LIGHTING CONTACTOR RELAY COIL
 - PC - PHOTOCELL CONTACTOR
 - - LOCATED IN LIGHTING CONTACTOR CONTROL STATION/ENCLOSURE
 - △ - LOCATED IN FIELD

- NOTES:
1. SINGLE-PHASE LIGHTING CIRCUITS ARE SHOWN. PROVIDE MULTI-PHASE CIRCUITS AS SPECIFIED AND INDICATED ON THE DRAWINGS.
 2. PROVIDE ADDITIONAL CONTACTS AS REQUIRED FOR ADDITIONAL LIGHTING CIRCUITS.

E640 EXTERIOR LIGHTING CONTROL
TYP 11-01-96



- HOUSEKEEPING CURB REQUIRED AT ALL INTERIOR WALL LOCATIONS FOR SINGLE AND MULTIPLE RISERS. RISERS SHALL BE GROUPED SO THAT SINGLE RISERS ARE A MINIMUM OF 2" APART.

EM001 CONDUIT HOUSEKEEPING CURB
TYP R 05-26-02

CONFORMED DOCUMENTS FOR CONSTRUCTION

DESIGNED DB
DRAWN SJB
CHECKED DL
DATE JULY, 2005

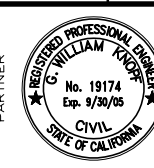
DISCIPLINE ENGINEER

PROJECT ENGINEER

PROJECT ENGINEER



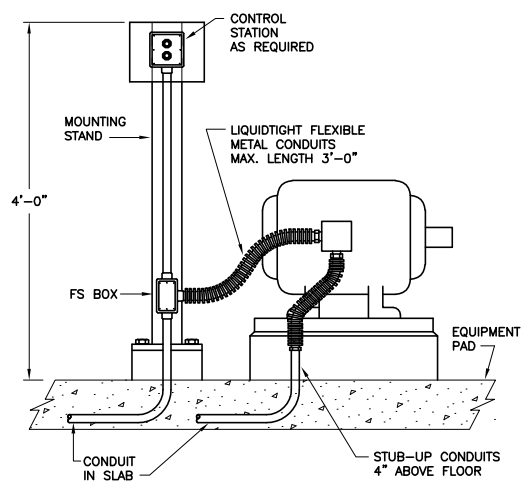
PARTNER



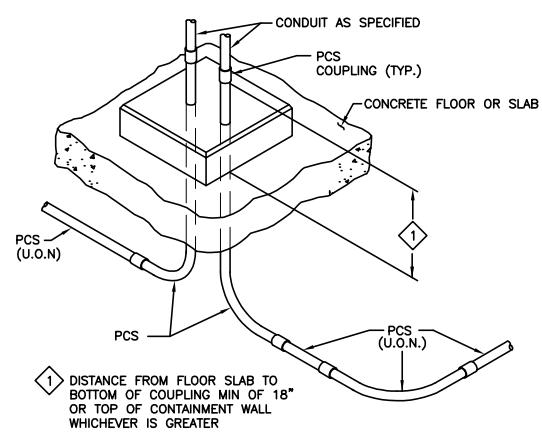
CITY OF PETALUMA
ELLIS CREEK WATER RECYCLING FACILITY
TYPICAL
TYPICAL DETAILS
ELECTRICAL

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" SCALE
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

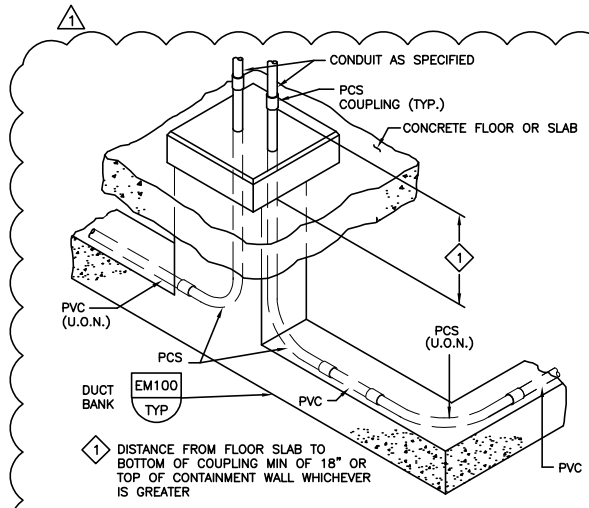
JOB NO. 6069B.10
DRAWING NO. TE-6
SHEET NO. 42 OF 740



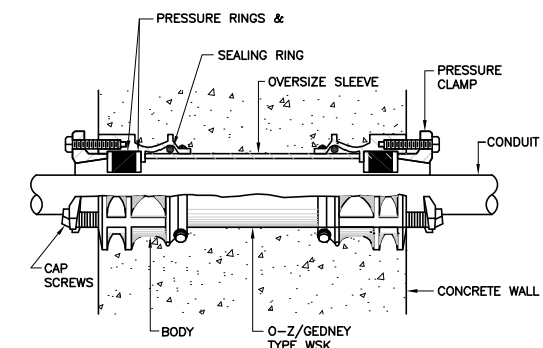
EM009 TYPE 2 MOTOR FEED
TYP RT 5-26-02



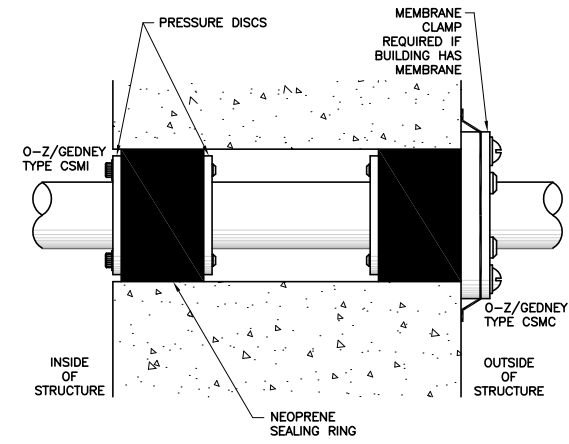
EM102 CONCEALED PCS CONDUIT
TYP INSTALLATION UNDER CONCRETE
SHEET 1 OF 2 SLAB INTERIOR AREAS
JUN. 03, 2002 9:46 AM



EM102 CONCEALED PVC CONDUIT
TYP INSTALLATION UNDER CONCRETE
SHEET 2 OF 2 SLAB INTERIOR AREAS
JUN. 03, 2002 9:52 AM

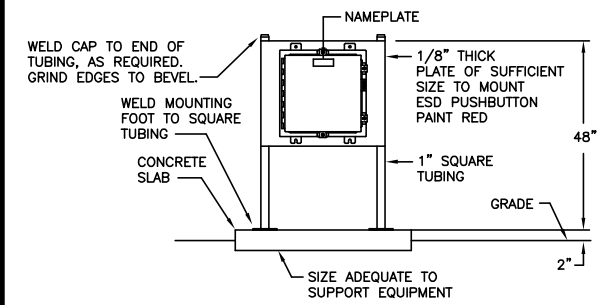
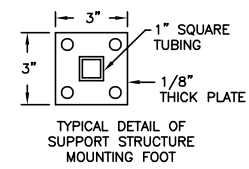


EM126 CAST IN PLACE
TYP RT CONDUIT WALL PENETRATION
05-27-02



EM128 CORE HOLE
TYP RT CONDUIT WALL PENETRATION
05-27-02

- NOTES:
1. PRIME & PAINT ALL SUPPORT STRUCTURES AS PER OWNER REQUIREMENTS.
 2. DETAILS ARE TYPICAL. ACTUAL CONDITIONS MAY VARY. CONTRACTOR IS REQUIRED TO SUBMIT ALL SUPPORT STRUCTURE DRAWINGS FOR APPROVAL BEFORE CONSTRUCTION.



EM176 TYPICAL PULL BOX SUPPORT STRUCTURE
TYP

CONFORMED DOCUMENTS FOR CONSTRUCTION

DESIGNED DB
DRAWN SJB
CHECKED DL
DATE JULY, 2005

DISCIPLINE ENGINEER

PROJECT ENGINEER



PARTNER



CITY OF PETALUMA
ELLIS CREEK WATER RECYCLING FACILITY
TYPICAL
TYPICAL DETAILS
ELECTRICAL

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 6069B.10
DRAWING NO. TE-7
SHEET NO. 43 OF 740