IMPROVEMENT PLANS
FOR
PACIFIC GROVE- MONTEREY ASBS WET-DRY WEATHER STORM WATER CAPTURE AND DIVERSION PROJECT
CITY OF PACIFIC GROVE, MONTEREY COUNTY, CA
STATE WATER RESOURCES CONTROL BOARD

FUNDING FOR THIS PROJECT HAS BEEN PROVIDED IN FULL OR IN PART THROUGH AN AGREEMENT WITH THE STATE WATER RESOURCES CONTROL BOARD USING FUNDS FROM PROPOSITION 84 AREAS OF SPECIAL BIOLOGICAL SIGNIFICANCE (ASBS). THE CONTENTS OF THIS DOCUMENT DO NOT NECESSARILY REFLECT THE VIEWS AND POLICIES OF THE FOREGOING, NOR DOES MENTION OF TRADE NAMES OR COMMERCIAL PRODUCTS CONSTITUTE ENDORSEMENT OF RECOMMENDATION FOR USE.
FRENCH DRAIN DETAIL

1. FRENCH DRAIN PER DETAIL 1, SHEET C-8.
2. CLEANOUT DETAIL

NOTE:
- Use French drain material as specified in DETAIL 1, SHEET C-8.
- Cleanout detail per DETAIL 2, SHEET C-8.

REFERENCE NOTES:

1. FRENCH DRAIN PER DETAIL 1, SHEET C-8.
2. CLEANOUT DETAIL PER DETAIL 2, SHEET C-8.

Line Table

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<thead>
<tr>
<th>Line</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>001</td>
<td>123.45</td>
<td>French drain detail</td>
</tr>
<tr>
<td>002</td>
<td>234.56</td>
<td>Cleanout detail</td>
</tr>
</tbody>
</table>

NOTE:
- French drain detail per DETAIL 1, SHEET C-8.
- Cleanout detail per DETAIL 2, SHEET C-8.
NOTE: PROTECT IRRIGATION SYSTEM IN PLACE.

LIMITS AFTER TANK CONSTRUCTION IS COMPLETE.

CONSTRUCT 25' X 15' LADIE'S TEE PER SPEC 32 90 00. CONTRACTOR TO COORDINATE WITH GOLF COURSE SUPERINTENDENT AND ENGINEER ON LIMITS AFTER TANK CONSTRUCTION IS COMPLETE.

EXTEND GOLF CART PATH TO APPROXIMATE LIMITS. CART PATH PER DETAIL 1, SHEET C-9. CONTRACTOR TO COORDINATE WITH GOLF COURSE SUPERINTENDENT AND ENGINEER ON LIMITS AFTER TANK CONSTRUCTION IS COMPLETE.

CONNECT TO TOP OF UNDERGROUND STORAGE RESERVOIR.

CLEANOUT PER DETAIL 2, SHEET C-8.

6" PVC SDR 35 STORM DRAIN PIPE.
WET - DRY WEATHER STORM WATER CAPTURE AND DIVERSION PROJECT

OCEAN VIEW SEWER STA. 103+00 TO STA. 106+00

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DATE: 02/15/19
DRAWN BY: SGT/KEA
DESIGNERS: JOB #: 1153-0003-01

SCALE: 1" = 20'
GRAPHIC SCALE: 1" = 20'
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

MATCHLINE GAS SS L100 STA 103+00 GAS SS L101 STA 104+81.31 EXISTING GRADE AT PIPE STA: 104+72.55 EX. 12" RCP SD STA: 104+81.31 RIM=32.64 SS MH 7594

10" PVC SS @ 0.40% SLOPE FL(IN)=22.39(S) FL(OUT)=22.49(N) RIM=32.64

SCALE: 1" = 20'

DRAWING SHEET NO. 1

FILE NAME: 1153-0003-01-SEA PALM SHEETS.DWG

REFERENCE NOTES:

1. ORIGINAL SCALE IS IN INCHES FOR REDUCED PLANS
2. THIS DRAWING IS TO BE USED FOR CONSTRUCTION ONLY WITHIN THE Scope OF WORK (SOW) FOR THE PROJECT AS DESCRIBED IN THE SOW. ALL MODIFICATIONS TO THE WORK PERFORMED UNDER THIS CONTRACT ARE TO BE DOCUMENTED IN THE CONTRACTOR'S WORK DIARY AND SUBMITTED TO THE CITY OF PACIFIC GROVE FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
3. VERIFY AND MATCH EXISTING INVERTS OR NEW INVERTS SHOWN ON THE PLANS. CONTRACTOR TO PROVIDE A MATCHLINE AND RETAIN EXISTING UTILITY CROSSING. APPROXIMATE LOCATION AND DEPTH (IF KNOWN). CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF ALL EXISTING UTILITY CROSSING PRIOR TO TRENCHING.
4. VERIFY AND MATCH EXISTING SMOKE OUTLET NOTES. CONTRACTOR TO PROVIDE A MATCHLINE AND RETAIN EXISTING SMOKE OUTLET PRIOR TO TRENCHING.
5. VERIFY AND MATCH EXISTING SMOKE OUTLET NOTES. CONTRACTOR TO PROVIDE A MATCHLINE AND RETAIN EXISTING SMOKE OUTLET PRIOR TO TRENCHING.

PLAN - OCEAN VIEW BLVD.

PROFILE - LINE J

LINE TABLE

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<th>Direction</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>N19°57'00&quot;W</td>
</tr>
<tr>
<td>2</td>
<td>151.18</td>
<td>N6°38'14&quot;E</td>
</tr>
<tr>
<td>3</td>
<td>481.31</td>
<td>L100</td>
</tr>
</tbody>
</table>
REFERENCE NOTES:

400 UNDERGROUND RESERVOIR NOTES

401 12" DEEP SUMP, BOTTOM ELEVATION 12" BELOW INVERT OF OUTLET PIPE. APPROXIMATE LIMITS SHOWN.

402 APPROXIMATE TANK FOOTPRINT.

403 LIMITS OF WORK AREA. CONTRACTOR TO REMOVE AND REPLACE ALL GOLF COURSE LANDSCAPING, IRRIGATION FACILITIES, AND DRAINAGE FACILITIES DISTURBED DURING CONSTRUCTION PER SPEC 32 90 00.

404 SLAB FOUNDATION FOR UNDERGROUND RESERVOIR. PLANS BY TANK MANUFACTURER. SLOPE TO DRAIN PER PLAN.

405 48" MAINTENANCE ACCESS MANHOLE WITH LOCKABLE LID, MARKED OR STAMPED "STORM DRAIN" PER DETAIL B, SHEET C-16. APPROXIMATE LOCATION SHOWN. CONTRACTOR TO SUBMIT LAYOUT PLAN FOR APPROVAL BY ENGINEER PRIOR TO CONSTRUCTION.

406 12" D.I. AIR VENT. APPROXIMATE LOCATION SHOWN. CONTRACTOR TO SUBMIT LAYOUT PLAN FOR APPROVAL BY ENGINEER PRIOR TO CONSTRUCTION. SEE DETAIL O, SHEET C-17. AIR VENT LOCATION ABOVE GRADE, COORDINATE WITH OWNER FOR LOCATION.

407 PROTECT TREES IN PLACE, SEE SECTION 01 35 00 SPECIAL PROJECT PROCEDURES, PARA. 3.8 TREES WITHIN PROJECT LIMITS.

408 STILLING WELL PER DETAIL X, SHEET C-19.

409 CONTRACTOR TO PROVIDE SCREENING FROM TEE BOX.

410 CONTRACTOR TO PROVIDE SCREENING FROM TEE BOX.

REV.

01/16/19 100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW

02/15/19 ISSUED FOR BID

CHECKS AND COMPLIANCE ISSUED, REMARKS FOR REVIEWS

DATE

JSW

HOLE 7
**Roll Curved and Gutter Section**

- Chip out and groom smooth vertical channel to conform to existing curbs. Channel transition shall be smooth and gradual across existing manhole base.

**Manhole Frame and Cover**

- Match curvature, contour, and finish of existing curbed curb.

**Pipe Subgrade for Sewer and Storm Drain**

- New 10" PVC sewer
- Existing 8" VCP sewer

**Details Sheet C-17**

- Concrete core, diameter per seal manufacturer specifications
- Link-Seal LS-200 or equal
- Positive slope
- Stainless steel strap
- See Tank Site Plans, Sheets C-7 and C-15

**Roof Air Vent Penetration**

- 316 stainless steel strap

**Revision History**

- 01/16/19: 100% COMPLETE SUBMITTAL, ISSUED FOR REVIEW
- 02/15/19: ISSUED FOR BID
WET - DRY WEATHER STORM WATER CAPTURE AND DIVERSION PROJECT
PACIFIC GROVE - MONTEREY ASBS

EXISTING SEWER MH 7662

EXISTING SEWER MH 8811

EXISTING SEWER MH 20025

EXISTING SEWER MH 20040

EXISTING SEWER MH 59

EXISTING SEWER MH AT STA 127+37.82

FLAP GATE

NOTE:
1. CHANNEL SHALL BE SMOOTH WITH NO SHARP ANGLES ON PROJECTIONS. RADIUS OF CURVED CHANNEL SHALL BE AS LARGE AS POSSIBLE. WHERE PRACTICAL, THE CURVE SHALL BE TANGENT TO THE CHANNEL WITH WHICH IT CONNECTS.
2. WIDEN EXISTING CHANNEL TO ACCOMMODATE NEW 12" PVC SEWER DIVERSION.

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### GENERAL SITE PLAN NOTES

- **Utility Company Contacts Before Construction**: Coordinate & Verify All Utility Company Requirements.
- **Utility Requirements**: If Plans were not received back from a utility, requirements may be imposed by utility company and/or this specification. Joint trenching may be utilized.
- **Utility Company Contacts**: Before construction, coordinate & verify all utility company requirements.
- **Specifications Specific to This Project**: Any utility work performed without prior utility company approval is at the owner’s expense.

#### LEGEND

<table>
<thead>
<tr>
<th><strong>Light Fixtures</strong></th>
<th><strong>Power/Comm.</strong></th>
<th><strong>Conduit/Wire</strong></th>
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<tbody>
<tr>
<td><strong>Exit Light - Ceiling</strong></td>
<td><strong>Light Switch</strong></td>
<td><strong>24 AWG</strong></td>
</tr>
<tr>
<td><strong>Pendant Linear Fluor.</strong></td>
<td><strong>Light Switch</strong></td>
<td><strong>14 AWG</strong></td>
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<tr>
<td><strong>Track Light</strong></td>
<td><strong>Light Switch</strong></td>
<td><strong>12 AWG</strong></td>
</tr>
<tr>
<td><strong>Wall Surface Mount</strong></td>
<td><strong>Light Switch</strong></td>
<td><strong>10 AWG</strong></td>
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#### LIGHT FIXTURES

- Exit Light - Ceiling
- Pendant Linear Fluor.
- Track Light
- Wall Surface Mount

#### POWER/COMM.

- Light Switch

#### CONDUIT/WIRE

- 24 AWG
- 14 AWG
- 12 AWG
- 10 AWG

---

###_conventions

- **F-#**: Fire Alarm Terminal
- **EXT**: Furnace
- **EMERG**: Exit Light - Ceiling
- **EM**: Emergency Ballast
- **EC**: Exit Light - Emergency
- **DW**: Drop Cords Recept.
- **DIA**: Doorbell, Coach Lights
- **Cond**: Conductors, Code Blue
- **C.O.**: Conduit, OCP
- **CF**: Conduit, FVNR
- **CEC**: California Energy Commission
- **CBC**: California Building Code
- **CB**: Control Box
- **CATV**: Cable Television Outlets
- **C**: Conductors
- **-C-**: Conductors
- **AWG**: American Wire Gauge
- **AM**: Alarm, AIC
- **AF**: Annunciator, AF
- **ABV**: Adjacent Building Vent
- **ABAND**: Adjacent Building Door
- **ABBREVIATIONS**

<table>
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<tr>
<td><strong>F-#</strong></td>
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### Abbreviations

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<th><strong>Abbreviation</strong></th>
<th><strong>Description</strong></th>
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<tr>
<td><strong>FVNR</strong></td>
<td>Fusible Switch</td>
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<tr>
<td><strong>OCP</strong></td>
<td>Full Load Amps</td>
</tr>
<tr>
<td><strong>FUSIBLE SWITCH</strong></td>
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### General Notes

1. **Electrical Code of Regulations**: That of the California Building Code, Part 1 of Title 24, Electrical, as applicable.
2. **Ammeter with Submittable Act (ASA)**: This electrical contractor is responsible for obtaining, installing, and interconnection of all electrical equipment and installing same in accordance with the California Building Code, Part 1 of Title 24, Electrical, and as applicable. This contractor to comply with the provisions of the California Building Code, Part 1 of Title 24, Electrical, and as applicable.

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### Conventions

- **2.** DUAL LEVEL SWITCHING W/ THERMAL OVERLOAD
- **3.** EXIT LIGHT - CEILING
- **4.** PENDANT LINEAR FLUORESCENT
- **5.** POLE LIGHT - DECORATIVE
- **6.** DIRECTIONAL FLOOD
- **7.** TRACK LIGHT
- **8.** WALL SURFACE MOUNT

---

### Electrical Contractor

- **ELECTRICAL CONTRACTOR**: ELECTRONIC BALLAST
- **EACH**: EACH
- **ELECTRONIC BALLAST**: EACH

---

### Electrical Equipment

- **EQUIPMENT**: ELECTRICAL CONTRACTOR
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### Equipment Anchevage Note

- **ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRICKED IN PLACE PRIOR TO STARTING HANGING, MOUNTING OR INSTALLATION. ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRICKED IN PLACE PRIOR TO STARTING HANGING, MOUNTING OR INSTALLATION.**

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### Wiring and Electrical Distribution Systems

- **WIRING AND ELECTRICAL DISTRIBUTION SYSTEMS**: SHALL BE DESIGNED TO RESIST THE FORCES PRODUCED BY ASCE 7-10 SECTION 3.1.1.1.7 Quincy Code (One of the following applications of the following applications of the Electrical Distribution System).**

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### Electrical Distribution System

- **EQUIPMENT**: EACH
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- **EQUIPMENT**: ELECTRONIC BALLAST
- **EQUIPMENT**: EACH
- **EQUIPMENT**: ELECTRONIC BALLAST
- **EQUIPMENT**: EACH
REFERENCE NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN UTILITY COMPANY APPROVAL FOR ALL METERING EQUIPMENT.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT AND COORDINATE WITH THE SERVING UTILITY TO ENSURE ALL DISTANCE EXCEED THE LENGTH NOTED PER INSTALLATION CONDITIONS, NOTIFY THE ENGINEER OF RECORD.
3. REFER TO PANEL SCHEDULES FOR INDIVIDUAL BRANCH CIRCUIT VOLTAGE DROP AND/OR SINGLE LINE DIAGRAM FOR FEEDER USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.
4. PRIOR TO ORDERING, CONDUCTOR DISTANCE AS INDICATED SHALL NOT BE USED FOR BIDDING/CONSTRUCTION PURPOSES. SHOULD THE FEEDER SERIES RATED EQUIPMENT IS NOT ALLOWED.
5. SERVICE ENTRANCE EQUIPMENT SHALL BE IN ACCORDANCE WITH THE SERVING ELECTRIC UTILITY COMPANY'S REQUIREMENTS.
6. SERVING UTILITY REQUIREMENTS ARE MET.
7. VOLTAGE DROP CALCULATIONS.
8. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).
9. ALL EQUIPMENT AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON ELECTRODES INDICATED.
10. ELECTRODES IDENTIFIED IN 2010
11. PER 2016 CEC 250.50
12. BONDED TOGETHER TO FORM ONE OR MORE OF THE STRUCTURE/BUILDING SHALL BE THE GROUNDING ELECTRODE.
13. THE GROUNDING ELECTRODE TYPICAL GROUND/BOND DETAIL
14. #6 COPPER GROUND PER 2010 CEC 250.52(A)(3)
15. PER 2010 CEC 250.52(A)(1)
16. PER 2010 CEC 250.52(A)(2)
17. PER 2010 CEC 250.52(A)(5)(b)
18. PER 2016 CEC TABLE 250.104(A)(B)
19. Sized Per 2016 CEC Table 250.122
20. Sized Per 2016 CEC Table 250.66
21. #8 COPPER GROUND BONDING JUMPER. OCCURRING AT LOCATION:
22. OF MAIN BUS NAME
23. OF MAIN LINE SIDE
24. SPACE
25. UPSTREAM DEVICE
26. UPSTREAM DEVICE
27. ARC FLASH HAZARD LINE SIDE FLASH PROTECTION BOUNDARY: 40 inches HAZARD RISK CATEGORY: CLASS 2 INCIDENT ENERGY RANGE: 4 - 8 cal/cm²
28. LINE SIDE FLASH PROTECTION BOUNDARY: 20 inches HAZARD RISK CATEGORY: CLASS 0 INCIDENT ENERGY RANGE: 0 - 2 cal/cm²
29. LOCATION: Bus Name
30. PROTECTIVE DEVICE: UPH 350 DEGREE
31. PROTECTIVE DEVICE: CMC 350 DEGREE
32. DETAIL NOTES
33. PROVIDE ARC FLASH PROTECTION WARNING LABELS ON EACH SWITCHBOARD, PANELBOARD, TRANSFORMER. LABELS SHALL BE PER ANSI Z535.4 GUIDELINES. RC7.858.
34. USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.
35. PROVIDE UPS BACKED INPUT VOLTAGE AS REQUIRED PER EACH DEVICE. COORDINATE WITH VOLTAGE REQUIREMENTS.
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REFERENCE NOTES

1. 860 PNAU HANDOUT PERMITS FOR SITE ACCESS REQUIREMENTS
2. PUSH TRANSFORMER SITE, POWER, ELEC. WORK TO BE PERFORMED IN LOCKED ENCLOSURE. SEE SHEET E-3 FOR LOCATION.
3. CHECK PANEL BOX RESOLUTION: MINI 36 MPY 6 Y remarks: FOR MID. AREA ELEC. REQUIREMENTS. SEE SHEET E-4 FOR LOCATION.
4. SETTLE POND UNDERGROUND CONCRETE FOUNDATION. SEE SHEET E-3, DETAIL 4. CONCRETE FOR SUTTLE PRIOR TO INSTALLATION.
5. 1/2" PUMP TRANSFORMER SIZE PUMP MPY 6 Y PUMP VOLTAGE FOR MID. AREA ELEC. REQUIREMENTS. SEE SHEET E-4 FOR LOCATION.
6. CONCRETE EXACT LOCATION WITH CITY AND ELEC. REQUIREMENTS.
7. 1/2" PUMP TRANSFORMER SIZE PUMP MPY 6 Y PUMP VOLTAGE FOR MID. AREA ELEC. REQUIREMENTS. SEE SHEET E-4 FOR LOCATION.
8. SCHEDULE. COORDINATE EXACT LOCATION WITH PG&E, CIVIL AND CITY REQUIREMENTS.
9. SCHEDULE. COORDINATE EXACT LOCATION WITH PG&E, CIVIL AND CITY REQUIREMENTS.
10. SCHEDULE. COORDINATE EXACT LOCATION WITH PG&E, CIVIL AND CITY REQUIREMENTS.
11. SCHEDULE. COORDINATE EXACT LOCATION WITH PG&E, CIVIL AND CITY REQUIREMENTS.

CHECKED BY:

DRAWN BY:

REVISIONS:

11.10.18

INQUIRY QUESTIONS TO: L. TAYLOR @ ML KINLEY @ CR

SCHEDULE. COORDINATE EXACT LOCATION WITH PG&E, CIVIL AND CITY REQUIREMENTS.

POWER. (2) 2 TWSP WITH DRAIN WIRE, 18 AWG - 3/4" C. FOR MOTOR DIVISION 33 AND 40 SPECIFICATIONS FOR CONTROLS REQUIREMENTS.

COORDINATE EXACT INSTALLATION LOCATION OF DOPPLER FLOW SEAL-OFFS AS REQUIRED.

SITE PLAN

DEL MONTE BLVD

SCALE: 1/16" = 1'-0"

LIFT STATION NO. 15

SCALE: 3'-0" = 1'-0"
REFERENCE NOTES

1. BW AVENUE HANDOUT PACK ROLLS FOR SITE BENCH REQUIREMENTS.

2. PUMP TRANSFOMATION AND COUPLING, 12" IN SIZE OR SAME
   PERMANENTLY INSTALLED TO COVER. BW TO PROVIDE LINE DIAMETER AND PANEL
   RATING. PROVIDE LOCATIONS WITHIN BOUNDARIES. CHECK AND CON
   REP.

3. CONTROL PANELS/RESOURCES IN AREA 3, 4 & 5. 4" & 6" KABLES TO 1 TO
   3-POLE CONDUIT/CONDUIT OR IN AREA 5. COORDINATE THE LOCAL
   LOCATION WITHIN BOUNDARIES. CHECK AND CON.

4. 1" PUMP, UNDERGROUND CONCRETE PUMP BOX WITH ROOF TRAFFIC
   GARDEN COVER. PVC PLUMBING "COMMUNICATIONS" PROVIDE CON
   SEALING AT PUMP.

5. PVC, PVC PIPE, PVC FITTINGS, PVC PUMP, PVC RAILINGS, PVC
   REPORTED TO BE REQUIRED. AS REQUIRED.

6. JWV (JEWELL AVENUE) PLAN.

7. SCALE: AS NOTED

8. DRAWN BY: TR
   CHECKED BY: TR
   EXPIRES: 6/30/19

9. EXCELLENT ELECTRICAL, INC.
   3500 EMPIRE ST., SUITE C
   SAN LUIS OBISPO, CA 93401
   PHONE: (805) 543-3850
   FAX: (805) 543-3829
   cad@thomaelec.com

BLENDING NOTED

SCALE: 1/16" = 1'-0"
1. 11"x17" CONCRETE PULLBOX. PROVIDE TRAFFIC RATED LID STAMPED "COMMUNICATIONS".

2. EYS FITTINGS. SEAL WITH SEALING COMPOUND AFTER CABLE INSTALLATION.

3. 1" C FROM CONTROL PANEL WITH DEVICE CABLE.

4. 1" C TO END DEVICE (STORAGE TANK OR MANHOLE).

NOTE: EXACT LOCATIONS OF PIPE BOLLARDS SHALL BE FIELD COORDINATED AND LOCATED AROUND EQUIPMENT SO THAT DOORS FULLY OPEN AND WORKING CLEARANCES ARE PRESERVED.

REFERENCE NOTES

PROTECTIVE PIPE BOLLARD

ENCLOSURE/METER-MAIN MOUNTING SECTION

TYP. FEEDER/BRANCH CONDUIT TRENCH DETAIL

ELEVATION AT PEDESTAL

TYPICAL PULL BOX WITH SEAL-OFF (PLAN VIEW)