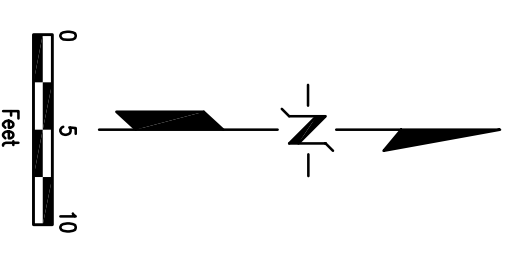
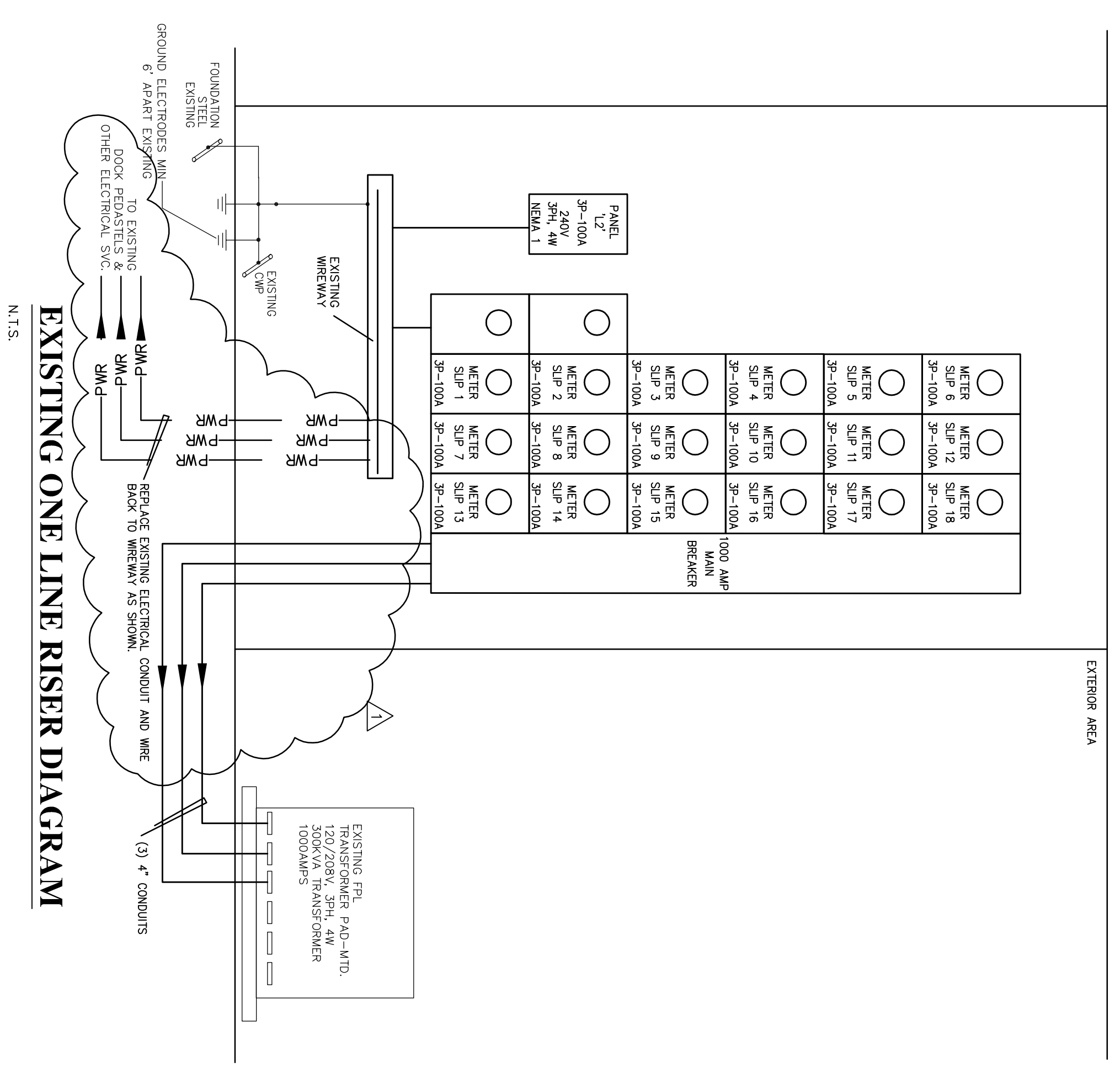


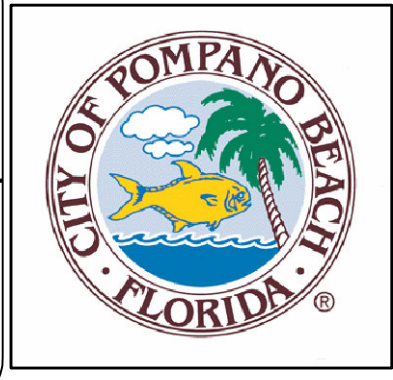
GENERAL SPECIFICATIONS: ELECTRICAL

1. ALL WORK PERFORMED SHALL BE DONE BY A LICENSED ELECTRICAL CONTRACTOR AND IN A FIRST CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND/OR GOVERNING AUTHORITIES.
2. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION NEC AND THE LATEST EDITIONS OF ALL LOCAL CODES, RULES, AND ORDINANCES HAVING JURISDICTION.
3. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS AND SPECIFICATIONS.
4. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
5. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS REQUIRED PRIOR TO INSTALLATION.
6. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS SO AS NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.
7. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD SPECIFIED OTHERWISE. (1) YEAR FROM DATE OF ACCEPTANCE.
8. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND WHICH MAY HAVE BEEN DAMAGED THEREBY.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITION ANY AND ALL DAMAGES CAUSED BY BIDDING, AGES, EQUIPMENT AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
10. ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE.
11. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC. SHALL BE LISTED FOR THE INTENDED USE WITH UNDERWRITERS' LABORATORIES, INC. (UL) WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. AS A MINIMUM, ALL EQUIPMENT SHALL MEET FOLLOWING STANDARDS FOR THE TYPE OF EQUIPMENT AND INTENDED USE OF THE FOLLOWING:
 - A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
 - B. ILLUMINATING ENGINEERS SOCIETY (IES).
 - C. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).
 - D. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
- NOTE: STANDARDS ARE SUBORDINATE TO CODES AND STANDARDS SET BY UL.
12. IT IS NOT THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE EXPECTED TO ACCOMPLISH THE PROPER FUNCTIONING OF THE DEVICE OR EQUIPMENT AS REQUIRED TO ELECTRICAL SYSTEM.
13. ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT ROUTING SHALL BE DETERMINED AND INSTALLED BY THE CONTRACTOR. THE PROPER NUMBER OF CONDUITS IN ALL RACKWAYS AS REQUIRED TO ACCOMPLISH THE PROPER FUNCTIONING OF THE DEVICE OR EQUIPMENT AS REQUIRED TO FOLLOW.
14. THE ELECTRICAL CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
15. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING.
16. ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.
17. COORDINATE ALL ELECTRICAL SITE WORK WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
18. FOR ELECTRIC POWER SYSTEM:
 - A. COORDINATE POWER SERVICE WITH EXISTING MAIN SERVICE INSIDE ELEC. RM.
 - B. VERIFY LOCATION OF EXISTING MAIN SERVICE & COORDINATE CONNECTION IN FIELD PRIOR TO SUBMITTING BID.
19. ALL CONDUCTORS SHALL BE IN CONDUITS. ALL CONDUITS SHALL BE INTERMEDIATE (MIO) OR RIGID GALVANIZED STEEL (RGS) EXCEPT THAT: (a) POLYVINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SLABS AND UNDERGROUND PROVIDED USED IN OR ON WALLS OR CEILING WHERE NOT SUBJECT TO MECHANICAL DAMAGE. DAMP CONDITIONS OR CORROSIVE CONDITIONS. (b) LIQUID-TIGHT FLEXIBLE CONDUIT WHEN REQUIRED TO LEAVE THE WALL OR CEILING SHALL BE REQUIRED. (c) ALL CONDUITS IN HAZARDOUS AREAS (PER NEC) SHALL MEET THE REQUIREMENTS OF NEC CHAPTER 5.
20. FOR UNDERGROUND ELECTRICAL CONDUITS PROVIDE PULL BOXES SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 90 DEGREE. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WHERE CONDUITS PASS UNDERNEATH PAVED AREAS THEY SHALL BE HOLED WHERE UNDERGROUND CONDUITS ARE NOT BE PAID FOR BY THE CONTRACTOR. ALL CONDUIT RISERS SHALL BE RGS CONDUITS SHALL EXTEND A MINIMUM OF 18" BELOW GRADE.
21. FIRE ALARM SYSTEM IS EXISTING TO REMAIN.
22. ALL CONDUCTORS SHALL BE COPPER U.O.N. TYPE THIN OR THAW INSULATION. RATED OTHERWISE NOTED. MINIMUM WIRE SIZE SHALL BE #12 AWG EXCLUDING CONTROL WIRING.
23. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID-TIGHT.
24. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURE FOR OTHER PASSED AREAS. RINGWALL STEEL RINGS SHOULD BE USED WITH OUTLET BOXES. CONTRACTOR FOR PLASTER RING INITIATION WILL BE REQUIRED. NO "GOOP" RINGS SHALL BE ALLOWED. ALL OUTLET BOXES SHALL BE SECURELY FASTENED.
25. DISCONNECT SWITCHES SHALL BE SIZED PER NEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES. U.O.N. DISCONNECT SWITCHES SHALL BE HORSEPOWER RATED HEAVY-DUTY TYPE.
26. FUSES SHALL BE CURRENT LIMITING, PER U.L., RATED 600 VOLTS, UNLESS OTHERWISE NOTED.
27. BALLASTS SHALL HAVE MIN. POWER FACTOR OF 0.90. BALLASTS FOR FLUORESCENT LAMP TYPES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE LAMPS WITH 5% TOLERANCE VARIATION.
28. PROVIDE LAMPS WITH FIXTURES, REFER TO DESCRIPTION FOR LAMP TYPE.
29. PROVIDE A FUSE HOLDER AND FUSE IN THE PRIMARY SIDE OF EACH UNDERGROUND CONDUCTOR FOR EACH BALLAST (BUSSMAN HEB AND RNO OR EQUAL) AT THE HAND HOLE OF EACH EXTERIOR FIXTURE OR J-BOX FOR WALL OR MOUNTED EXTERIOR FIXTURES.
30. PROVIDE TEMPORARY ELECTRICAL SERVICE FOR USE BY ALL TRADES DURING CONSTRUCTION AND REMOVE SAME AT COMPLETION OF PROJECT.
31. THE ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS SHOWING ALL CHANGES AND DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
32. PREPARE AND AFFIX A TYPEWRITTEN DIRECTORY TO THE INSIDE COVER OF EACH PANELBOARD INDICATING LOADS SERVED BY EACH CIRCUIT.
33. METER CANS, HUBS, & LUGS FOR SAME ARE EXISTING TO REMAIN.




HILLSBORO INLET MARINA SEAWALL

100% SUBMITTAL



CITY OF POMPANO BEACH
BROWARD COUNTY, FL

1201 NE 5th AVE
POMPANO BEACH, FL 33060



Project CAME
CONSULTANTS
REGISTERED ELECTRICAL ENGINEERS
REGISTERED MECHANICAL ENGINEERS
REGISTERED PLUMBING ENGINEERS
REGISTERED CIVIL ENGINEERS
REGISTERED CHEMICAL ENGINEERS
REGISTERED ENVIRONMENTAL ENGINEERS

DRAWING ISSUED	
SUBMITTAL	DATE: BY
REVIEW 60 %	
REVIEW 80 %	
REVIEW 100 %	
REMARK	
REVISION	NO. DESCRIPTION DATE BY
△	BID QUESTIONS 4/7/11
DESIGNED: TBL	CHECKED: RBC
DRAWN: TBL	FINAL CHECK BY: RBC
<p>ROBERT CANE, P.E. STATE OF FLORIDA - LICENSE NO. 37637 DATE: FEB. 2011 SCALE: AS SHOWN</p> <p>DWG TITLE: ELECTRICAL RISER</p> <p>DWG No. E2</p>	