- RAL:
  ALL ELECTRICAL WORK IS TO MEET THE APPLICABLE PORTIONS OF THE FOLLOWING
  RECOGNIZED CODES AND STANDARDS:
  O CERTIFIED BALLAST MANUFACTURERS (CBM)
  NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)

- O) CERTIFIED BALLAST WANUFACTURERS (CBW)
  b) NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)
  c) FACTORY MUTUAL (FW)
  d) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
  e) INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
  f) UNDERWRITERS' LABORATORIES, INC. (UL)
  g) ILLUMINATING ENGINEERING SOCIETY (IES)
  h) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
  i) INSULATED POWER CABLE ENGINEERING ASSOCIATION (IPCEA)
  j) OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
  k) NATIONAL ELECTRICAL CODE (NEC)
  n) NATIONAL ELECTRICAL SAFETY CODE (NEC)
  n) NATIONAL ELECTRICAL SAFETY CODE (NEC)
  n) ANIONAL ELECTRICAL SAFETY CODE (NEC)
  n) THE STANDARD ELECTRICAL SERVICE WILL BE THREE—PHASE 120/208 VOLT
  b) (4-WIRE) "WILD LEC" BELTA SYSTEMS WILL NOT BE PERMITTED.
  c) SINGLE PHASE 120/240 VOLT (3-WIRE) SYSTEMS WILL BE ALLOWED ONLY IF
  120/208 VOLT THREE PHASE SERVICE IS NOT AVAILABLE.
  3. EQUIPMENT FOR CLASSIFIED AREAS
  g) PROVIDE ALL EQUIPMENT AND MATERIALS SUITABLE FOR THE CLASSIFIED AREAS IN
  WHICH IT IS TO BE INSTALLED AND CONFORMING TO ARTICLE 500 OF THE NEC,
  AND FOLLOWING THE RECOMMENDATIONS OF AMERICAN PERFORMENT OF ALL QUESTIONS
  REGARDING AREA CLASSIFICATION.
  c) INSTALLING TECHNICANS ARE REQUIRED TO WEAR A GROUND STRAP FOR ANY
  ELECTRONIC WORK.
  4. INSTALLATION:
  o) INSTALLATION:

- ELECTRONIC WORK.
  INSTALLATION:

  a) INSTALL ELECTRIC SYSTEMS AS INDICATED FOLLOWING THE MANUFACTURER'S
  WRITTEN INSTRUCTIONS, THE APPLICABLE CODES AND REGULATIONS, AND MURPHY
  OIL USA, INC. INSTRUCTIONS.
  INSTALL TEMPORARY ELECTRICAL SUPPLY FOR USE DURING CONSTRUCTION, INCLUDING
  POWER SUPPLY TO THE BUILDING/CANOPY ERECTOR AND ANY OTHER CONTRACTOR
  WORKING ON THE SITE. THE OWNER WILL PAY FOR ALL POWER USED DURING
  CONSTRUCTION.
- CABLE, WIRE, AND CONNECTORS

  - BUL, WIRE, AND CONSECTORS
    WIRE AND CABLE:

    a) PROVIDE FACTORY FABRICATED WIRE AND CABLE OF THE SIZE, RATING, MATERIAL,
    AND TYPE AS INDICATED.

    b) PULL WIRES AND CABLES INTO THEIR CONDUITS USING A LUBRICANT FOLLOWING
    THE MANUFACTURER'S RECOMMENDATIONS.

    1) DO NOT USE OIL OR GREASE FOR THIS PURPOSE.

    2) USE FLAX SOAP, Y-ER-EAS, OR OTHER LUBRICANT AS APPROVED BY MURPHY
    OIL USA, INC. IF THERE ARE NO RECOMMENDATIONS BY THE MANUFACTURER.

    c) PROVIDE TEMPERATURE RATED WIRING INSIDE OF LIGHTING FIXTURES FOLLOWING
    NEC.
- NEC.

  CONDUCTORS:

  PROVIDE SOFT OR ANNEALED COPPER WIRES THAT, BEFORE STRANDING, CONFORM TO ASIM B 3 SPECIFICATION FOR SOFT OR ANNEALED COPPER WIRE.

  PROVIDE STRANDED COPPER CONDUCTORS FOR POWER AND CONTROL WIRING, DISPENSER COMMUNICATION CONDUCTORS SHALL BE #16. ALUMINUM OR COPPER
- CLAD ALUMINUM WIRING WILL NOT BE PERMITTED. "
  PROVIDE MINIMUM #12 AWG SIZE CONDUCTORS FOR POWER WIRING UNLESS
- OTHERWISE INDICATED ON THE DRAWINGS. PROVIDE UL TYPE THHN/THWN GASOLINE AND OIL RESISTANT FOR CONDUCTORS
- PROVIDE UL TYPE THHN/THWN O SIZED NO. 8 AWG AND LARGER. BRANCH CIRCUIT WIRING
- FACH 120 VOLT BRANCH CIRCUIT MUST HAVE ITS OWN NEUTRAL RETURN
- NO SPLIT NEUTRALS ARE PERMITTED.
- INSULATION PROVIDE INSULATION THAT MEETS OR EXCEEDS THE REQUIREMENTS OF UL 83

- O) PROVIDE INSULATION THAT MEETS OR EXCEEDS THE REQUIREMENTS OF UL 83 STANDARD FOR THERMOPLASTIC INSULATED WIRES.

  b) ALL INSULATION IS TO BE MARKED WITH THE UL TYPE REQUIRED FOR EACH USE.
  c) PROVIDE UL TYPE ITH GASOLINE AND OIL RESISTANT INSULATION FOR CONDUCTORS SIZED NO. 18 AWG THROUGH NO. 16 AWG.
  d) PROVIDE UL TYPE THHN/THWN GASOLINE AND OIL RESISTANT INSULATION FOR CONDUCTORS SIZED NO. 14 AWG THROUGH NO. 10 AWG.
  CONNECTORS FOR BUILDING WIRE AND CABLE
  g) USE TERMINAL LUGS WHENEVER POSSIBLE UP TO AND INCLUDING #6 AWG.
  b) LUG/BOLTED CONNECTIONS ARE REQUIRED FOR ALL CONDUCTORS LARGER THAN #6 AWG.
  c) CONNECT ALL MOTOR LEADS, #10 AND LARGER, WITH PRESSURE FITTED LUGS AND BOLTED.
  d) THE USE OF TERMINAL STRIPS FOR WIRING CONNECTIONS IS ENCOURAGED.
- BOLIED.
  THE USE OF TERMINAL STRIPS FOR WIRING CONNECTIONS IS ENCOURAGED.
  SPLICES ARE NOT PERMITTED IN FEEDERS, MOTOR LEAD, OR COMMUNICATION/DATA
- C. GROUNDING

  1. GROUND ALL EQUIPMENT AND DEVICES AS INDICATED ON THE DRAWINGS, AND AS REQUIRED BY NEC, LOCAL ELECTRICAL INSPECTION AUTHORITIES, AND THE UTILITY
- COMPANY.

  2. IT'S RECOMMENDED THAT THE GROUNDING SYSTEM INCORPORATE INCOMING COPPER WATER LINES, IF AVAILABLE, IN ADDITION TO 5/8 INCH X TEN FOOT COPPER CLAD GROUNDING ROD.

  3. USE\_APPROVED PRESSURE CONNECTORS OR CAD WELDS TO CONNECT GROUND WIRES
- 4. DO NOT USE OIL, OR GAS LINES AS THE GROUNDING SYSTEM.

- RACEWAY INCLUDING CONNECTORS, NIPPLES, COUPLINGS, EXPANSION TITTINGS, BUSHINGS, LOCKNUTS, AND ALL OTHER COMPONENTS REQUIRED TO INSTALL A COMPLEX SYSTEM OF THE TYPE INCLUDED, AND AS REQUIRED BY NEC. PROVIDE HEAVY WALL ONE INCH MINIMUM, GALVANIZED STEEL CONDUIT EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS.

- CORROSION RESISTANT SCREWS
- WITH CODE.
  USE SEPARATE CONDUITS FOR DATA AND POWER WIRING.

- CONDUIT FITTINGS

  13. FLEXIBLE METAL CONDUIT

  a) PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT COMPRESSED OF SINGLE STRIP,
  CONTINUOUS, FLEXIBLE, INTERLOCKED, DOUBLE WRAPPED STEEL, GALVANIZED INSIDE
  AND OUTSIDE THAT FORMS A SMOOTH INTERNAL WIRING CHANNEL, AND WITH LIQUID
  TIGHT JACKET OF FLEXIBLE PVC.

  b) PROVIDE LIQUID TIGHT, ZINC COATED STEEL FLEXIBLE METAL CONDUIT FITTINGS.
- INGS
  PROVIDE FITTINGS EQUAL TO THOSE SUPPLIED BY CROUSE—HIND OR APPLETON.
  PROVIDE FITTINGS WITH RUBBER OR NEOPRENE GASKETS WHERE INSTALLED IN
- DAMP AREAS.
  PROVIDE FITTINGS COMPLYING WITH NEC AND UL 886 WHEN INSTALLING IN c) HAZARDOUS AREAS.
- SITE CONDUIT ROUTING, BURIAL DEPTH AND SPACING
- BURY ALL UNDERGROUND SITE CONDUIT AT A MINIMUM OF 24 INCHES BELOW THE FINISHED GRADE.
- RIGHT ANGLE SWEEP ELBOWS MUST BE USED AT THE BASE OF EACH RISER. NO GRADUAL RISE OF CONDUIT TO THE SURFACE GRADE IS PERMITTED.

- COTTING AND PATCHING OF OTHER WORK TO ACCOMMODATE THE INSTALLATION OF ELECTRICAL WORK IS PERMITTED.

  SEE CONCRETE OR ASPHALT PAVING SECTIONS FOR PAVEMENT REPAIRS.

  SEE CONCRETE OR ASPHALT PAVING SECTIONS FOR PAVEMENT REPAIRS.

  SECRET AS INDIVIDUALLY AUTHORIZED BY MURPHY OIL USA, INC. CUITING AND PATCHING OF ELECTRICAL WORK TO ACCOMMODATE THE INSTALLATION OF OTHER WORK IS NOT SEPURITED.
- INCOMING CONDUIT
- H. ELECTRICAL SYSTEM IDENTIFICATION

## DIVISION 26 - ELECTRICAL (CONTINUED)

- EQUIPMENT TESTS

  1. PERFORM OPERATIONAL TESTS ON ALL ELECTRICAL EQUIPMENT TO ENSURE SATISFACTORY PERFORMANCE.

  2. INCLUDE TESTS FOR MECHANICAL AND ELECTRICAL OPERATION FROM ALL CONTROL POINTS, OPERATION OF RELAYS, AND ALL SAFETY DEVICES.
- ELECTRICAL WORK CLOSE-OUT
  1. ALL SITE ELECTRICAL SYSTEMS MUST HAVE PASSED FUNCTIONAL TESTING AND BE FULLY OPERABLE.

- OPEMBLE.

  ALL SITE ELECTRICAL SYSTEMS MUST HAVE PASSED INSPECTIONS BY THE LOCAL APPROVING AUTHORITIES.

  ALL BURIED SITE POWER AND CONTROL SUBSYSTEMS MUST HAVE PASSED APPROPRIATE CONDUCTOR MEGGER TESTING.
- 4. ALL ELECTRICAL PANEL BOARDS MUST HAVE TYPEWRITTEN SCHEDULES THAT ACCURATELY
- ALL ELECTRICAL PANEL BOARDS MOST HAVE TYPEWHITEN SCHEDULES THAT ACCURATELY IDENTIFY BREAKERS BY FUNCTION AND PANEL POSITION.

  ALL CONDUITS AND CONDUCTORS MUST BE PROPERLY TAG IDENTIFIED.

  ALL NON-TERMINATED ELECTRICAL WORK PROVIDED WHICH, INTENDED FOR INTERFACE WITH ANOTHER CONTRACTOR'S WORK, MUST BE PROPERLY SECURED.

  ALL REQUIRED CONDUIT SEALS FOR HAZARDOUS LOCATIONS MUST BE INSTALLED AND THE COMPOUND POURED.

  ALL SPARE CONDUITS MUST HAVE A PULL WIRE INSTALLED AND CAPPED ON BOTH ENDS.

  ALL ELECTRICAL SECRETION MUST LARGE AN MISSIBLE OF AN ENTERPRISED MUST BE REPORTED.
- ALL ELECTRICAL SYSTEMS MUST PASS A MURPHY OIL USA, INC. ENGINEER INSPECTION.
   ALL ELECTRICAL RECORD DRAWINGS MUST BE IN THE POSSESSION OF MURPHY OIL USA, INC. ENGINEER.
- 11 ALL DISPENSER WIRING MUST BE CONTINUOUS (NO SPLICES) FROM DISPENSER
- JUNCTION BOX TO CONSOLE TERMINAL STRIP BOX.

  12. ALL SPARE WIRES SHOULD BE TAPED AND LOOPED AT ENDS AND LABELED.

- (2. BOX AND PANEL BOARD

  1. PROVIDE ELECTRICAL MATERIALS, AND COMPONENTS FOR A COMPLETE INSTALLATION EQUAL TO THOSE SUPPLIED BY CROUSE—HINDS, APPLETON, OR SQUARE D.

  2. PANEL BOARDS

  3. PROVIDE SQUARE D PANEL BOARDS WITH APPROPRIATE PLUG—IN BREAKERS FOR THE FUNCTIONS THAT ARE REQUIRED TO POWER FROM THE SELECTION OF SQUARE D PRODUCTS.

  b) IF ROTATING FOULPMENT IS SUPPLIED FROM THE PANEL BOARD, THE BREAKER TOGGLE MUST BE FITTED WITH A PERMANENT LOCKING ATTACHMENT.

  c THE ATTACHMENT MUST BE CAPABLE OF SECURING THE BREAKER IN THE DEPOSITION USING A COMMON PADLOCK.

  d) PROVIDE PANEL BOARDS WITH A TYPED CIRCUIT DIRECTORY FOLLOWING NEC.

  3. INTERIOR OUTLET BOXES

  a) PROVIDE GALVANIZED STEEL INTERIOR OUTLET WIRING BOXES OF THE TALLATION; CONSTRUCTED WITH STAMPED KNOCKOUTS, BANA UP SIZE, AND WITH THREADED HOLES WITH SCREWS FOR SECURING OX COVERS WITH DEWICES.
  - FURNISH BOXES TO SUIT THE USE BY TAKING INTO APPEARANCE, AND CODE REQUIREMENTS OR VARIOUPROVIDE TYPE FS OR FD BOXES WITH REFACE COVERNMENT.
  - COMPATIBLE WITH OUT OF INDIVIDUAL WIRING INDIVIDUAL WIRING
  - CUDING DEPTH OF BOX, WITH SS REINFORCED COVER PLATE WITH TABLY CONFIGURED FOR EACH
  - AND CORROSION RESISTANT FASTENERS. WHERE ZARDOUS LOCATION, THOSE REQUIREMENTS WILL
  - WILL BOXES WITH SCREW-ON COVERS OF THE TYPE ICTION AND WILL BOXES WITH SCREW—ON COVERS OF THE TYPE, SIZE TO SUIT EACH RESPECTIVE LOCATION AND INSTALLATION. RROSION RESISTANT PUNCHED STEEL BOX KNOCKOUT CLOSURES, KKNUTS, AND INSULATED CONDUIT BUSHINGS OF THE TYPE AND SIZE H RESPECTIVE USE AND INSTALLATION. PLOSION PROOF CONDUIT BOXES, BODIES, AND SEALS AS REQUIRED LOSION PROOF CONDUIT BOXES, BODIES, AND SEALS AS REQUIRED LID THE N.E.C., ARTICLE 501, FOR HAZARDOUS LOCATIONS; AND
  - YING WITH UL STANDARD 886
- AFETY AND DISCONNECT SWITCHES
  PROVIDE HEAVY DUTY TYPE, DEAD FRONT, SHEET STEEL ENCLOSED, SURFACE MOUNTED
  SAFETY SWITCHES OF THE TYPE AND SIZE INDICATED.
  PROVIDE SAFETY SWITCHES RATED FOR THE VOLTAGE OF THE CIRCUIT IN WHICH THEY
- PROVIDE SAFETY SWITCHES RATED FOR THE VOLTAGE OF THE CIRCUIT IN WHICH THEY ARE INSTALLED.
  PROVIDE SAFETY SWITCHES, USED AS MOTOR DISCONNECTS, RATED FOR THE MOTOR HORSEPOWER SERVED.
  PROVIDE QUICK—MAKE, QUICK—BREAK TYPE SWITCHES WITH EXTERNALLY OPERABLE INDICATING AND LOCKABLE HANDLES, MAKED FOR PURPOSE AND FAIL—SAFE AS MANUFACTURED BY GENERAL ELECTRIC, SQUARE D, WESTINGHOUSE OR AN APPROVED EQUAL.
  FUSING

  PROVIDE POSITIVE PRESSURE, REJECTION TYPE FUSE CLIPS SUITABLE FOR USE WITH UI CLASS R FUSES.
- WITH UL CLASS R FUSES.
  b) PROVIDE BUSSMAN DUAL ELEMENT, CURRENT LIMITING, TIME DELAY, CLASS RK-1 FUSES.
- TITING HXTURES
  PROVIDE LIGHTING FIXTURES OF THE SIZE, TYPE, AND RATING INDICATED, COMPLETE
  WITH LAMPS, LAMP HOLDERS, REFLECTORS, BALLASTS, STARTERS, WIRING, AND ALL
  OTHER REQUIRED COMPONENTS.
- 2. FLUORESCENT BALLASTS.

  a) PROVIDE LOW NOISE, HIGH POWER FACTOR, RAPID START, CLASS "P" THERMALLY PROTECTED, ENCASED, AND POTTED BALLASTS.

  b) PROVIDE BALLAST FOR EXTERIOR OR INDOOR NON—CONDITIONED SPACES WITH A "C" SOUND RATING AND A O'F TEMPERATURE RATING.

- DIVISION 33 UTILITIES
- MONITORING WELLS

  1. REFER TO DRAWING F-4.
- B. LIQUID FUEL DISTRIBUTION

  - GENERAL

    a) PRIMARY PRODUCT PIPING TO BE AS PER SHEET F-5 AND F-6.
    b) STEEL PIPE TO BE SCHEDULE 40 BLACK STEEL.
    c) ALL PIPING AND SEALANT TO BE ALCOHOL COMPATIBLE.
    d) GASOLIA SOFT SET SHALL BE USED ON ALL STEEL PIPE FITTINGS AND THREADED METAL CONNECTIONS.
  - e) TANK VENTS

    1) ALL TANK, VENT AND STAGE 2 (AS APPLICABLE) VAPOR RECOVER PIPING SHALL BE RIGID, SINGLE WALL (PRIMARY) FIBERGLASS PIPING.

    2) RISERS WILL BE SCHEDULE 40 BLACK STREEL.
  - REFER TO DETAILS F-4 AND F-5 FOR SIZING. CANOPY MANUFACTURER SUPPLIES IN-COLUMN PORTION OF VENT-RISER (IF
  - 1/4" PER FOOT.
  - APPLICABLE).

    f) VENT PIPING MUST SLOPE TOWARDS TANKS AT A MUSTAGE 2 (AS APPLICABLE) VAPOR RECOVERY PIPITANKS AT A MINIMUM OF 1/8" PER FOOT.
  - WHENEVER STORAGE TANKS OR INTEGRA RELOCATED AFTER JANUARY JANUARY 11, 2017, A SURVEY INTEGRAL PIPING SIGNED AND S D UNDERGROUND SURVEYOR OR SHALL BE COMPLETED
- AROUND ALL UNDERGROUND TANKS AS SHOWN ON

  - DIAM SAN SCIFICATIONS. LISTED BELOW.

    DILLOW JUNK IEST PROCEDURES LISTED BELOW.

    C) KS A O BE BALLASTED WITH CLEAN, POTABLE WATER AND FILLED TO

    C) KCIP SEE PROCEDURES BELOW). CONTRACTOR IS COMPLETELY RESPONSIBLE
    FOR THE FURNISHING OF WATER AND ALL ASSOCIATED COSTS WHETHER PROVIDED

    VIN TANKER TRUCK, FIRE HYDRANT OR OTHERWISE.

    1) FOR SPLIT (COMPARTMENTALIZED) TANKS, STARTING WITH THE LARGEST

    COMPARTMENT, ALTERNATE FILLING EACH COMPARTMENT WITH 50% OF VOLUME

    UNTIL ALL COMPARTMENTS ARE 100% FULL.

    2) DISPOSE OF CLEAN BALLAST WATER AS DIRECTED BY LOCAL AUTHORITIES.

    d) DO NOT REMOVE BALLAST UNTIL INSTALLATION OF TANK SLABS HAS CURED FOR

    SEVEN (7) DAYS.

    e) HAND PUMP ANY WATER AT THE BOTTOM OF TANKS PRIOR TO INTRODUCTION OF

    PRODUCT.
- f)
- g)
- HAND PUMP ANY WATER AT THE BOTTOM OF TANKS PRIOR TO INTRODUCTION OF PRODUCT.

  SUFFICIENT WATER BALLAST AND BACKFILL MATERIAL MUST BE AVAILABLE ON SITE TO COMPLETE THE SETTING OF TANKS IN ONE DAY.

  NO TANK SETTING SHALL BE SCHEDULED FOR ANY FRIDAY WITHOUT PRIOR ARRANGEMENT WITH MURPHY OIL USA, INC. INSPECTOR.

  PROVIDE 2" TEMPORARY VENTS UNTIL PERMANENT VENTING IS OPERATIONAL. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EXCAVATION IN A DEWATERED STATE DURING THE ENTIRETY OF CONSTRUCTION.

  1) BERWING OF THE EXCAVATION SHALL BE PROVIDED WHERE SURFACE DRAINAGE MAY ENTER THE OPEN TANK CAVITY.

  WHEFE THIS DRAWING IS IN CONFLICT WITH THE LOCAL REGULATIONS NOTIFY. WHERE THIS DRAWING IS IN CONFLICT WITH THE LOCAL REGULATIONS NOTIFY
- MURPHY OIL USA, INC.

  1) LOCAL REGULATIONS WILL SUPERSEDE DRAWINGS IF MORE STRINGENT.

  SUPPLY MURPHY OIL USA, INC. WITH AS—BUILT PLANS.
- KHILL
  ALL BACKFILL SHALL COMPLY WITH CURRENT MANUFACTURER'S INSTALLATION
  REQUIREMENTS.
- SUPPLY QUARRY CERTIFICATION. m) TÁNK TEST TANKS MUST BE TESTED ACCORDING TO CURRENT MANUFACTURER'S
- IANKS MUST BE TESTED ACCORDING TO CURRENT MANUFACTURER'S PROCEDURES.

  AFTER COMPLETION OF ALL YARD PAVEMENT WORK, INCLUDING TANK PADS AND PUMP ISLANDS, AN APPROVED PRECISION TANK TEST SHALL BE PERFORMED ON THE TANK, ULLAGE, PRODUCT AND VENT LINES (NITROGEN TEST FOR STAGE 2 VAPOR RECOVERY PIPING) AT THE EXPENSE OF MURPHY OIL USA, INC. CONTRACTOR SHALL COMPLETE THE TANK MANUFACTURER'S CHECKLIST AND SUBMIT THIS LIST TO THE OWNER'S REPRESENTATIVE. 2)
- n) SUMPS
  1) FIBERGLASS SUMP UNITS ARE TO BE SEALED PER MANUFACTURER INSTALLATION
- INSTRUCTIONS.
  EACH SUMP SHALL BE FILLED WITH WATER FOR 24 HOURS BEFORE BACKFILL TO VERIFY WATER TIGHT.
- D. FIBERGLASS PIPING

  1. GENERAL

  a) BACKFILL

  1) ALL BACKFILL
  - - ALL BACKFILL SHALL COMPLY WITH CURRENT MANUFACTURER'S INSTALLATION REQUIREMENTS.

CONTRACTOR SHALL REVIEW THE GEOTECH REPORT AND ALL CIVIL DOCUMENTS. THE GEOTECH REPORT AND CIVIL DOCUMENT SUPERCEDE ANY OF THE STANDARD SPECIFICATIONS ON THIS SHEET.

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DIVISION 26 - ELECTRICAL (CONTINUED)

- CONDUCTOR TESTS

  1. PERFORM MEGGER TESTS ON INSULATION BEFORE SEALS ARE POURED. THE TEST IS MANDATORY FOR INCOMING SERVICE CONDUCTORS AND MOTOR LEADS TO SUBMERGED
- PUMPS.
  2. RESISTANCE BETWEEN CONDUCTORS AND BETWEEN ALL CONDUCTORS AND GROUND IS
- TO BE NOT LESS THAN TEN MEG-OHMS FOR ALL CIRCUITS LESS THAN 600 VOLTS.
  TEST GROUND CONDUCTORS FOR CONTINUITY.
  DO NOT PERFORM MEGGER TESTS AFTER WIRES HAVE BEEN CONNECTED TO A PIECE OF
  EQUIPMENT OR TERMINAL STRIP DUE TO POSSIBLE DAMAGE TO THE EQUIPMENT.
- PROVIDE A COMPLETE ASSEMBLY OF CONDUIT WITH FITTINGS FOR EACH ELECTRICAL
- CONDUIT BODIES
   PROVIDE GALVANIZED CAST METAL CONDUIT BODIES OF THE TYPE, SHAPE, AND SIZE.
- TO SUITE EACH RESPECTIVE LOCATION AND INSTALLATION.
  b) PROVIDE BODIES WITH THREADED CONDUIT ENDS, REMOVABLE COVERS, AND
- 4. PLASTIC CONDUIT (PVC) MAY BE USED WHERE PERMITTED BY. AND IN ACCORDANCE
- OSE SEPARATE CONDUITS FOR DATA AND POWER WINDS.

  CAP CONDUIT PRIOR TO COMPLETE INSTALLATION TO PREVENT ANY FOREIGN MATTER FROM OBSTRUCTING THE CONDUIT.

  PROVIDE CLASS 1, GROUP D SEAL-OFF FITTINGS AS REQUIRED BY THE NEC, ARTICLE
- 501. 8. AFTER TESTING PROCEDURES HAVE BEEN COMPLETED, POUR SEALING COMPOUND INTO

- 8. ĀFĪĒR IESIING PROCEDURES HAVE BEEN COMPLETED, POUR SEALING COMPOUND INTO ALL SEAL—OFF FITTINGS.
  9. EQUIP CONDUIT RUNS EXCEEDING 25 FEET IN LENGTH WITH SUITABLE WIRE INSERT TO ENABLE THE PULLING OF A FISH TAPE FOR ADDITIONAL WIRING.
  10. PROVIDE PROVISION FOR EXPANSION BY A MINIMUM OF ONE EXPANSION FITTING INSTALLED IN EACH STRAIGHT RUN OF CONDUIT EXCEEDING 150 FEET IN LENGTH, AND AT 150 FOOT INTERVALS HIEREAFTER.
  11. RIGIDLY SUPPORT ALL CONDUIT FROM STRUCTURAL MEMBERS WITH MALLEABLE IRON CONDUIT CLAMPS AT A MAXIMUM OF EIGHT FEET ON CENTIER. USE U—BOLTS FOR MOUNTING. "ALL THREAD" IS NOT ACCEPTABLE FOR MOUNTING.

  12. PROVIDE HOT DIPPED—CALVANIZED CONDUIT CONFORMING TO ANSI C80.1, AND FITTINGS CONFORMING TO ANSI C80.4 AS INDICATED FOR RIGID STEEL CONDUIT AND RIGID STEEL CONDUIT FITTINGS.
- G. CUTTING AND PATCHING CUTTING AND PATCHING OF OTHER WORK TO ACCOMMODATE THE INSTALLATION OF
  - FIRE IN AND FINISH THE BUILDING FLOOR AT CONDUIT CHASE AFTER INSTALLIN
- ELECTRICAL SYSTEM IDENTIFICATION

  1. CONDUIT SYSTEMS

  a) PROVIDE MARKING OF MAJOR CONDUIT WHICH IS EXPOSED OR CONCEALED IN ACCESSIBLE SPACES. TO DISTINGUISH EACH RUN AS PITTLEY POWER OR SIGNAL/COMMUNICATIONS CONDUIT.
  b) PROVIDE SELEY—ADHESINE OR SMAP—ON TYPE PLASTIC OR LETALISC MARKERS
  c) LOCATE MARKERS AT ENDS OF CONDUIT RUNS.
  2. UNDERGROUND CABLE
  a) BURY A CONTINUOUS BRIGHT COLORED PLASTIC RIBBON CABLE MARKER WITH UNDERGROUND CABLE (OR GROUP OF CABLES)
  b) LOCATE EACH DIRECTLY OVER CABLES, SIX TO GHT CHES SELOW THE FIGURADE.
  3. CABLE/CONDUCTOR
  a) COORDINATE A UNIFORM AND COSISIENT SCHEME OF COLOR DENTIFICATION THROUGHOUT THE BUILDING SYSTEM ATTION BY MEANS OF PAINTED COBANDING OR PLASTIC AFE.
  c) USE THE FOLLOWING LORS SEMIL FOR BRANCH CIRCUITS: 120/208 VOLT WITH EACH