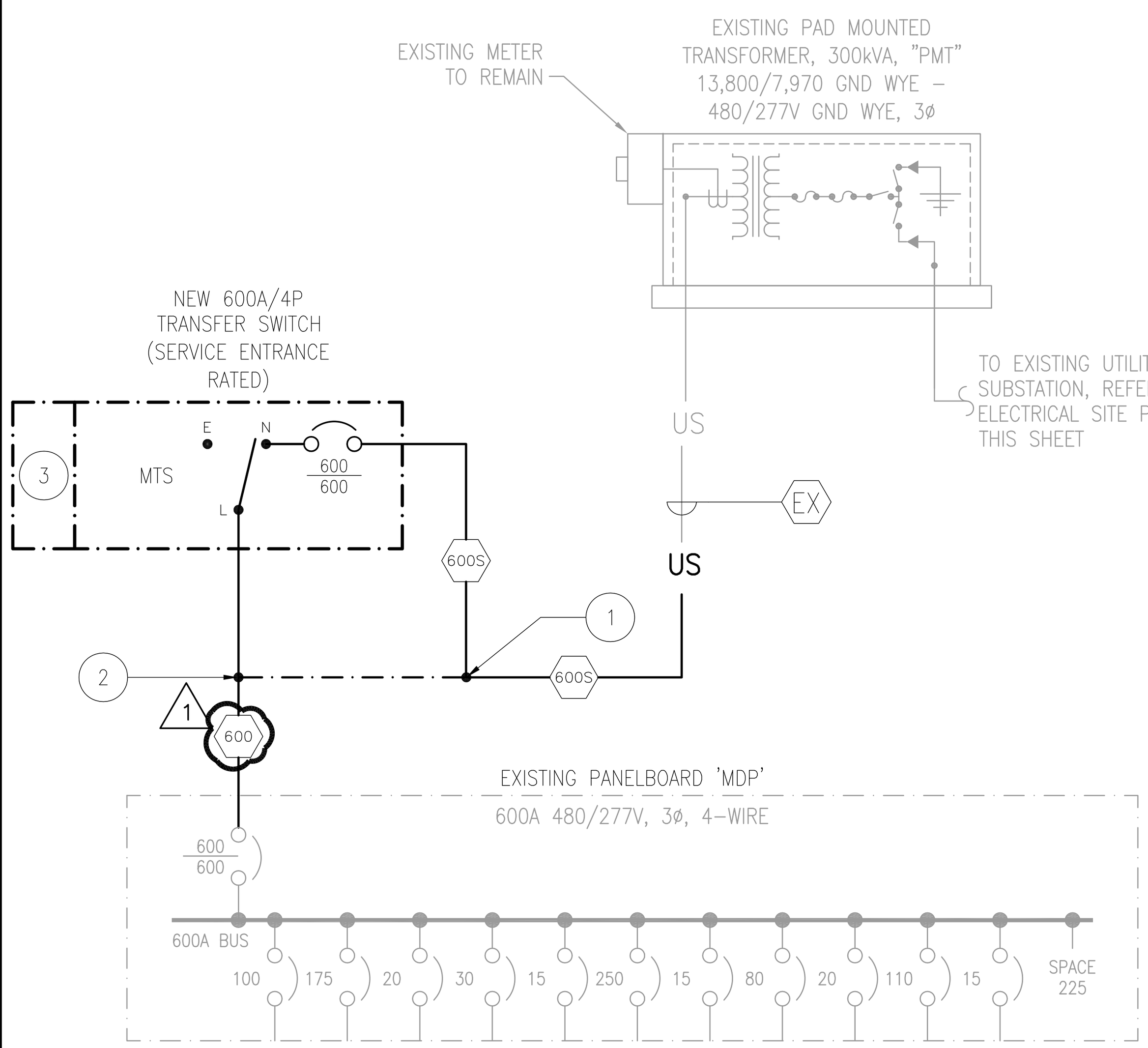
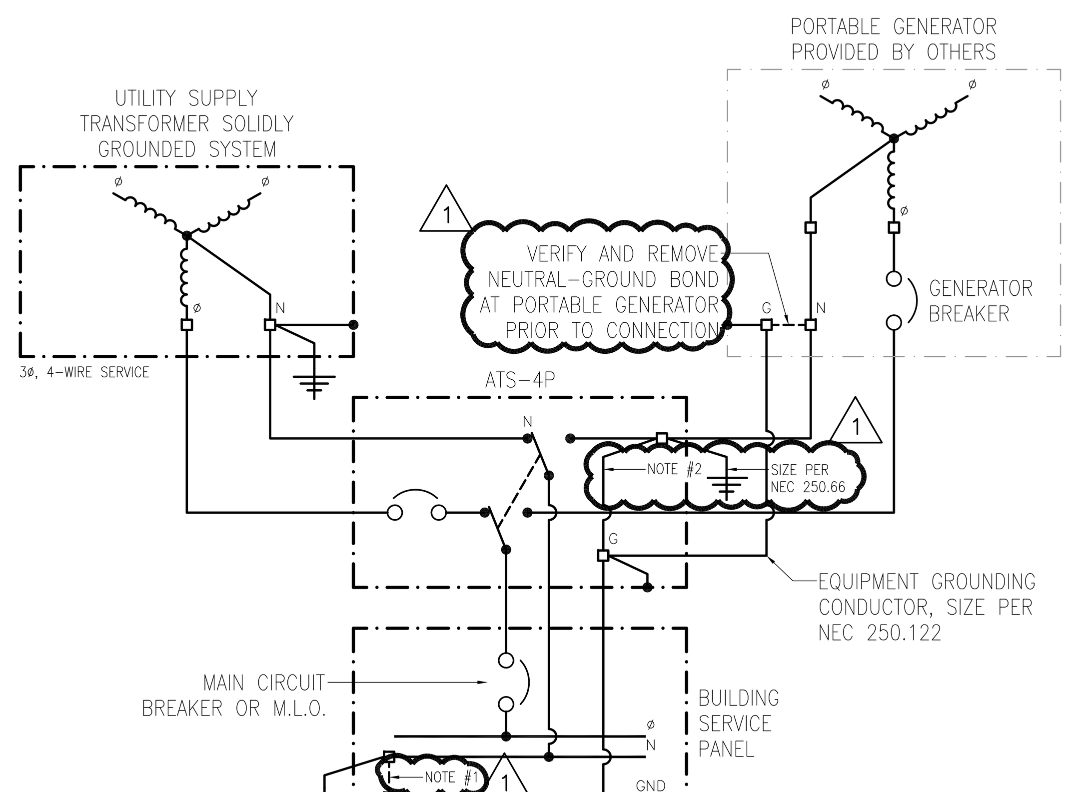
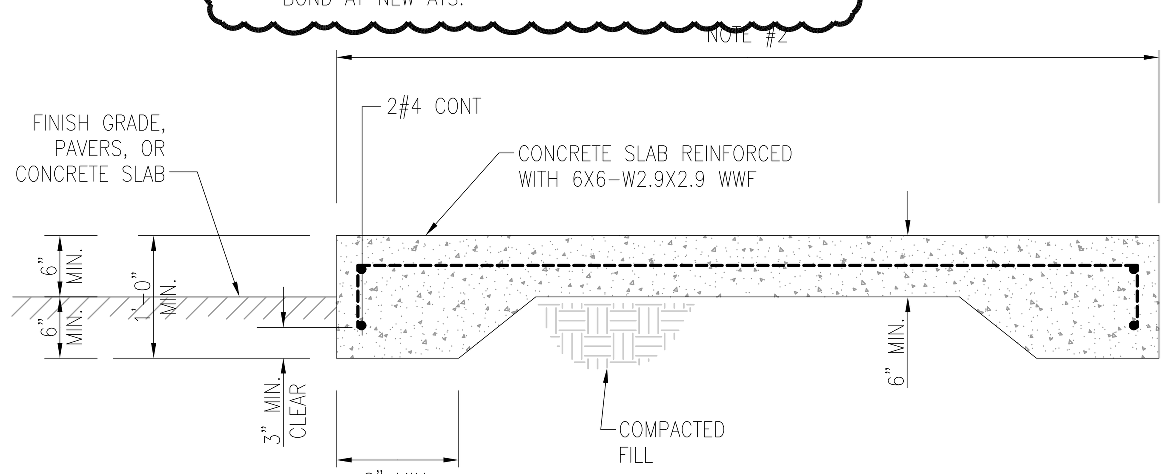


2 POWER ONE-LINE DIAGRAM
Scale: NOT TO SCALE

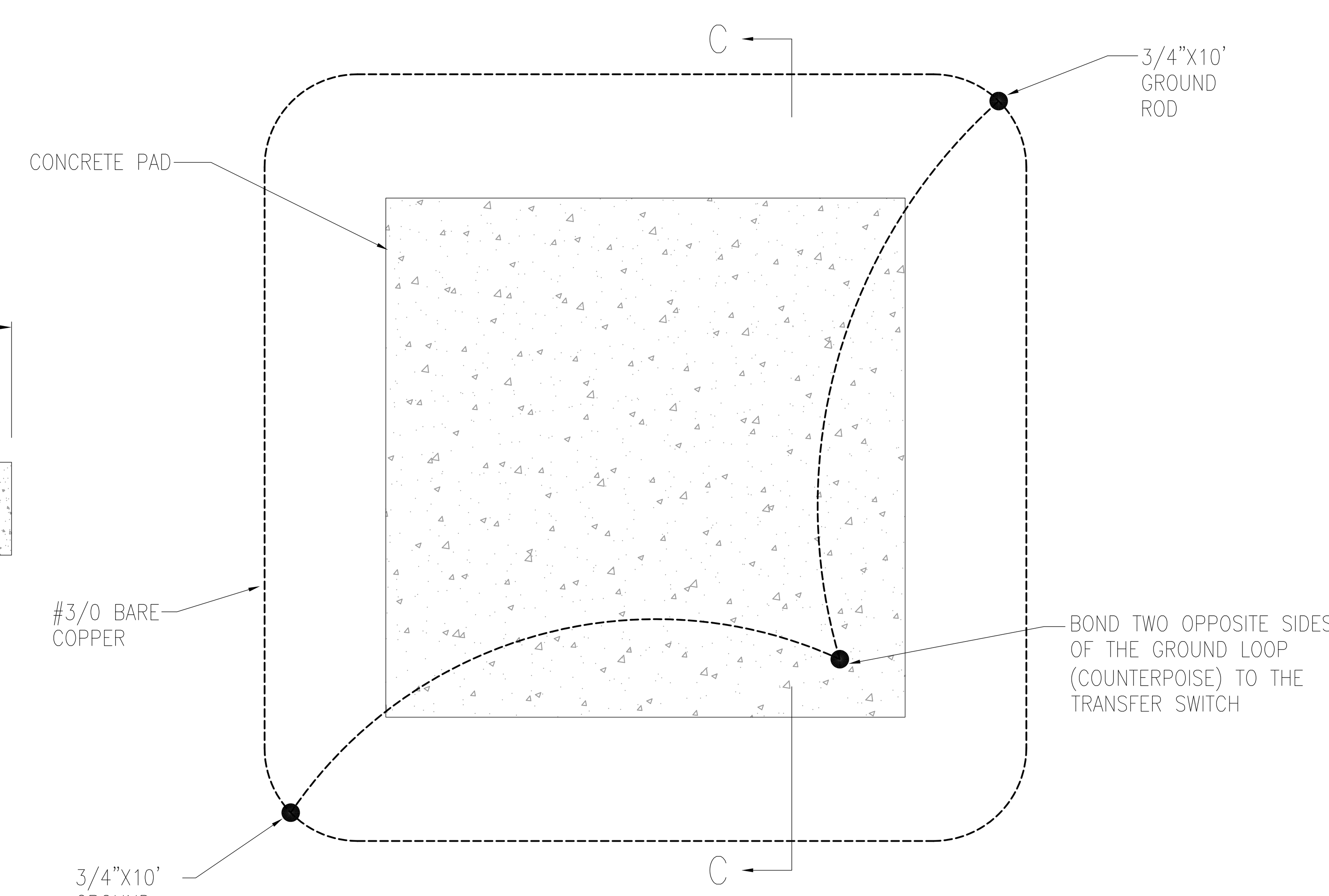


3 GROUNDING DIAGRAM
Scale: NOT TO SCALE

NOTES:
1. CONTRACTOR TO FIELD VERIFY AND REMOVE EXISTING NEUTRAL-GROUND BOND AT EXISTING SERVICE EQUIPMENT MAIN SWITCHBOARD.
2. CONTRACTOR TO VERIFY PRESENCE OF NEUTRAL-GROUND BOND AT NEW ATS.



SECTION C-C
NOT TO SCALE



PLAN VIEW
NOT TO SCALE

4 CONCRETE PAD DETAIL
Scale: NOT TO SCALE

NOTES:
1. SLAB REINFORCEMENT SHALL BE CHAIRED AS REQUIRED BY LOCAL BUILDING CODES.
2. REFERENCE ELECTRICAL SITE PLAN, THIS SHEET, ELECTRICAL SITE PLAN KEYED NOTES #8, FOR TRANSFER SWITCH PAD DIMENSIONS, AND KEYED NOTES #13 FOR PORTABLE GENERATOR SLAB DIMENSIONS.

POWER ONE-LINE DIAGRAM NOTES

1. THE ELECTRICAL SERVICE ENTRANCE WORK SHALL BE INSTALLED IN ACCORDANCE WITH UNIFIED FACILITIES GUIDE SPECIFICATIONS (UFGS) AND APPLICABLE UFC CRITERIA, INCLUDING BUT NOT LIMITED TO UFC 3-501-01.
2. ALL ELECTRICAL EQUIPMENT INSTALLED OUTSIDE SHALL BE PROVIDED WITH NEMA 3R WEATHERPROOF ENCLOSURE.
3. ALL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250.
4. MAIN SERVICE DISCONNECT SHALL BE LOCKABLE TO INSTALLATIONS SPECIFICATIONS.
5. ALL FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD.
6. PROVIDE TO BUILDING OWNER AN OPERATING AND MAINTENANCE MANUAL FOR ELECTRICAL EQUIPMENT INSTALLED. THE MANUAL SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
   A. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
   B. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
   C. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
7. CONTRACTOR TO POUR AND CURE THE CONCRETE PAD IN ACCORDANCE WITH UNIFIED FACILITIES GUIDE SPECIFICATIONS (UFGS), OR INSTALL A PRE-CAST PAD THAT COMPLIES WITH UFGS SPECIFICATIONS.
8. PROVIDE AND INSTALL THE SECONDARY CABLE AND CONDUIT AS REQUIRED.

POWER ONE-LINE KEYED NOTES

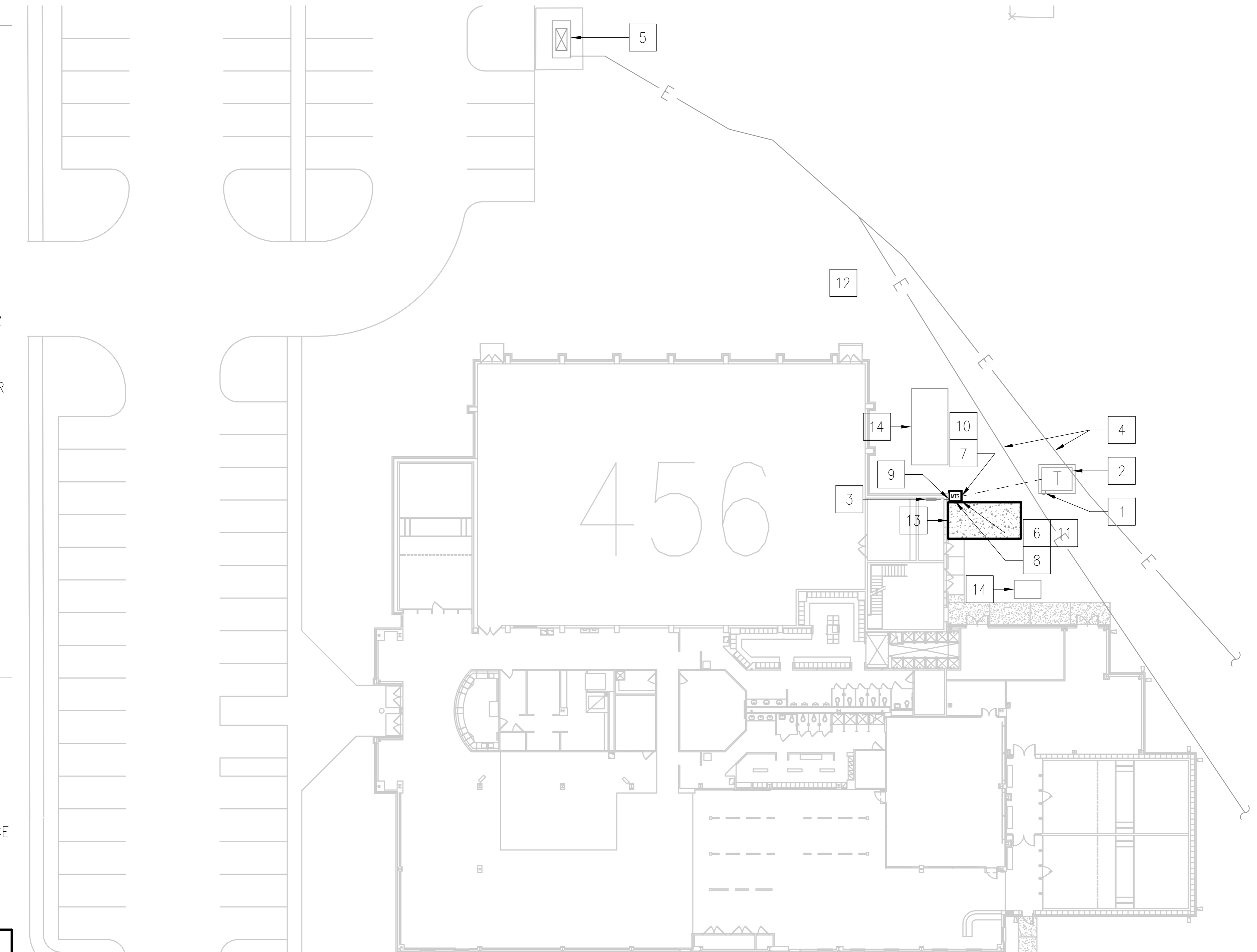
(1) INTERCEPT EXISTING SERVICE ENTRANCE CONDUCTORS OUTSIDE OF BUILDING. INSPECT, TEST, AND REUSE EXISTING SERVICE ENTRANCE CONDUCTORS. EXTEND TO NORMAL TERMINALS OF NEW TRANSFER SWITCH LOCATED AT BUILDING EXTERIOR.

(2) PROVIDE NEW SERVICE ENTRANCE CONDUCTORS FROM LOAD TERMINALS OF NEW TRANSFER SWITCH TO MAIN BREAKER TERMINALS OF EXISTING MAIN DISTRIBUTION PANEL 'MDP'. EXTEND AND REUSE EXISTING SERVICE ENTRANCE CONDUIT AS REQUIRED.

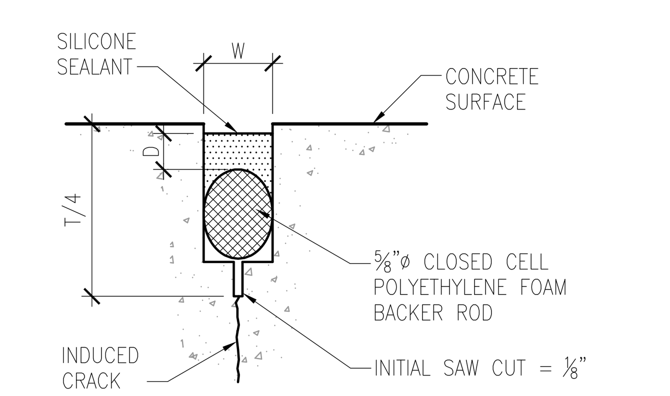
(3) PROVIDE NEMA-3R PULL BOX SIZED PER NEC 314.28 WITH REMOVABLE BOTTOM COVER FOR ROUTING PORTABLE GENERATOR CONDUCTORS INTO TRANSFER SWITCH.

FEEDER SCHEDULE

(–)	CONDUIT AND WIRE SIZES
600S	TWO 3-INCH CONDUITS, EACH CONTAINING 4-350kCMIL
600	TWO 3-INCH CONDUITS, EACH CONTAINING 4-350kCMIL, #1 GND



1 ELECTRICAL SITE PLAN
Scale: 1" = 30'-0"



5 CONTRACTION JOINT DETAIL
Scale: NOT TO SCALE

DEFINITIONS:

W = WIDTH OF SEALANT RESERVOIR = ⅜"
D = DEPTH OF SEALANT = 3/16"
T = THICKNESS OF SLAB

GENERAL NOTES:

1. SILICONE SEALANT SHALL MEET THE REQUIREMENTS OF ASTM D5893 SELF LEVELING SEALANT.
2. ALL CONCRETE SURFACES AND JOINTS SHALL BE FLUSHED CLEAN WITH WATER AFTER BOTH INITIAL AND FINAL SAW CUTS AND PRIOR TO THE DRYING OF SAW CUT SPAWNED SLURRY.
3. BOTH JOINT FACES SHALL BE SANDBLASTED AND AIR BLOWN PRIOR TO FINAL BACKER ROD AND SEALANT INSTALLATION.
4. SEAL RESERVOIR FOR CONTRACTION JOINTS SHALL BE FORMED USING A SECOND SAW CUT. SHOULDERED BLADE SHALL NOT BE USED WITH INITIAL SAW CUT.

GENERAL ELECTRICAL SITE NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, FIRE SAFETY CODES, ENERGY CODES, THE AMERICANS WITH DISABILITIES ACT, LOCAL BUILDING CODES, AND UNIFIED FACILITIES CRITERIA.
2. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT SITE TO ENSURE THAT ALL WORK WILL MEET OR EXCEED THE ABOVE REQUIREMENTS. ANY ALLEGED DISCREPANCIES SHALL BE BROUGHT TO THE CONSTRUCTION OFFICER'S ATTENTION.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
4. REFERENCE POWER ONE-LINE DIAGRAM, THIS SHEET, FOR CONDUIT AND CONDUCTOR SIZES.
5. THE LOCATIONS OF EXISTING ELECTRICAL, FIBER, TELEPHONE, CATV, WATER, SEWER, STORM SEWER, AND OTHER UTILITIES AND SITE FEATURES ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND LOCATING ALL UTILITIES PRIOR TO DIGGING WITHOUT ADDITIONAL COST TO THE GOVERNMENT.
6. EXISTING CONDITIONS ARE BASED ON RECORD DRAWINGS AND LIMITED SURFACE INVESTIGATION. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES, INCLUDING LIGHTNING PROTECTION AND GROUNDING. COORDINATE WORK WITH OTHER TRADES TO MAINTAIN A MINIMUM OF 3'-0" VERTICAL AND 3'-0" HORIZONTAL CLEARANCE FROM CROSSING OR ADJACENT UTILITIES.
7. EXISTING PRIMARY CIRCUITS MUST REMAIN ENERGIZED AND IN SERVICE DURING CONSTRUCTION. POWER OUTAGES MUST BE KEPT TO A MINIMUM.
8. THE CONTRACTOR MUST COORDINATE ALL SITE ELECTRICAL WORK WITH THE BASE HIGH VOLTAGE SHOP. PROVIDE ADVANCED WRITTEN NOTICE TO THE SHOP AND CONTRACTING OFFICER PRIOR TO ANY POWER OUTAGES REQUIRED FOR CONSTRUCTION. CONTRACTOR MUST CALL THE HIGH VOLTAGE SHOP PRIOR TO STARTING ANY WORK ON THE EXISTING UTILITY TRANSFORMER.
9. THE CONTRACTOR SHALL PHASE THE INTERCEPTION AND/OR EXTENSION OF EXISTING ELECTRICAL UTILITIES WITH THE INSTALLATION OF NEW UTILITIES TO MINIMIZE DOWN TIMES. FOR EXISTING UTILITIES THAT ARE TO BE REPLACED AND/OR RELOCATED THE NEW WORK SHALL BE INSTALLED AND PREPARED FOR RECONNECTION PRIOR TO DEMOLITION OR INTERCEPTION. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL OUTAGES WITH THE CONTRACTING OFFICER AND PUBLIC WORKS.
10. CONDUITS INSTALLED UNDER ROADWAYS, PARKING AREAS, OR OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL BE CONCRETE ENCASED. ENCASEMENT SHALL EXTEND AT LEAST FIVE (5) FEET BEYOND THE EDGE OF THE PAVEMENT OR CONCRETE.
11. PROVIDE PVC COATED RGS ELBOWS FOR SHORT RADIUS BENDS AT RISER POLES AND EQUIPMENT. OTHERWISE USE LONG SWEEP BENDS AS SPECIFIED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE ELECTRICAL WORK INCLUDING BUT NOT LIMITED TO MODIFICATIONS TO THE SECONDARY CONDUIT DUCT BANKS, TRENCHING AND BACKFILL, SECONDARY CABLING, AND TESTING.

ELECTRICAL SITE KEYED NOTES

[1] EXISTING METER TO REMAIN.
[2] EXISTING UTILITY TRANSFORMER TO REMAIN.
[3] EXISTING PANEL 'MDP' TO REMAIN. (SIEMENS CAT NO. S4E75LX450ABS)
[4] EXISTING DIRECT BURIED CONDUCTORS TO REMAIN. FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.
[5] EXISTING ELECTRICAL SUBSTATION TO REMAIN.
[6] PROPOSED NEW TRANSFER SWITCH LOCATION. NEW TRANSFER SWITCH TO BE SERVICE ENTRANCE RATED. REFERENCE POWER ONE-LINE DIAGRAM, THIS SHEET.
[7] INTERCEPT EXISTING SERVICE ENTRANCE CONDUCTORS OUTSIDE OF BUILDING AT LOCATION INDICATED. INSPECT, TEST, AND REUSE EXISTING SERVICE ENTRANCE CONDUCTORS. EXTEND TO NORMAL TERMINALS OF NEW TRANSFER SWITCH LOCATED AT BUILDING EXTERIOR.
[8] PROVIDE NEW 47" X 40" CONCRETE SLAB FOR NEW TRANSFER SWITCH. COORDINATE NEW CONCRETE SLAB DIMENSIONS WITH APPROVED TRANSFER SWITCH SUBMITTALS AND PROVIDE CONCRETE SLAB TO EXTEND A MINIMUM OF 6" BEYOND TRANSFER SWITCH ENCLOSURE ON ALL SIDES. REFERENCE CONCRETE PAD DETAIL, THIS SHEET. COORDINATE EXACT LOCATION WITH PUBLIC WORKS DEPARTMENT PRIOR TO ROUGH-IN.
[9] PROVIDE NEW SERVICE ENTRANCE CONDUCTORS FROM LOAD TERMINALS OF NEW TRANSFER SWITCH TO MAIN BREAKER TERMINALS OF EXISTING MAIN DISTRIBUTION PANEL 'MDP'. EXTEND AND REUSE EXISTING SERVICE ENTRANCE CONDUIT AS REQUIRED. REFERENCE POWER ONE-LINE DIAGRAM, THIS SHEET, FOR CONDUIT AND CONDUCTOR SIZES.
[10] STUB OUT 2-1" CONDUITS FROM THE NEW TRANSFER SWITCH PULL BOX 5' BEYOND THE NEW CONCRETE SLAB AND CAP AND STAKE FOR FUTURE USE.
[11] LOCATE NEW TRANSFER SWITCH TO MAINTAIN PROPER CLEARANCE ABOUT EXISTING ELECTRICAL EQUIPMENT, PER NEC 110.26.
[12] THE EXISTING ELECTRICAL SITE PLAN IS NOT AN APPROVED CIVIL PLAN AND IS COMPILED FROM AS-BUILT DRAWINGS AND SCANNED RECORD DRAWINGS. THE CONTRACTOR SHOULD FIELD VERIFY ALL MEASUREMENTS, EXISTING EQUIPMENT LOCATIONS, AND EXISTING UTILITIES PRIOR TO SUBMITTING A BID.
[13] PROVIDE NEW 20' X 10' CONCRETE SLAB FOR PORTABLE GENERATOR. REFERENCE CONCRETE PAD DETAIL, THIS SHEET. PROVIDE CONTRACTION JOINT AT MIDPOINT OF NEW CONCRETE SLAB. REFERENCE CONTRACTION JOINT DETAIL, THIS SHEET. COORDINATE EXACT LOCATION OF CONCRETE SLAB WITH PUBLIC WORKS DEPARTMENT PRIOR TO ROUGH-IN.
[14] EXISTING CHILLER TO REMAIN.

N

1"=30' 0' 30' 60' 90' 120' 150'

SYM	DESCRIPTION	DATE	APPR
1	AMENDMENT 0001	09/09/2010	RDA

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY

SATISFACTORY TO DATE

DES RDA | DRW RDA | CHK RHF
PROJECT MANAGER T. ARTRIP
IPT TECH. BRANCH HEAD E. HANDZEL
CHIEF ENG/ARCH (CORE) R. CHURCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
IPT GULF COAST NAVAL AIR STATION JACKSONVILLE
NAVAL AIR STATION JRB NEW ORLEANS NEW ORLEANS, LOUISIANNA

CNIC TRANSFER SWITCH PROGRAM

ELECTRICAL SITE PLAN & DETAILS – FIT. CENT. 456

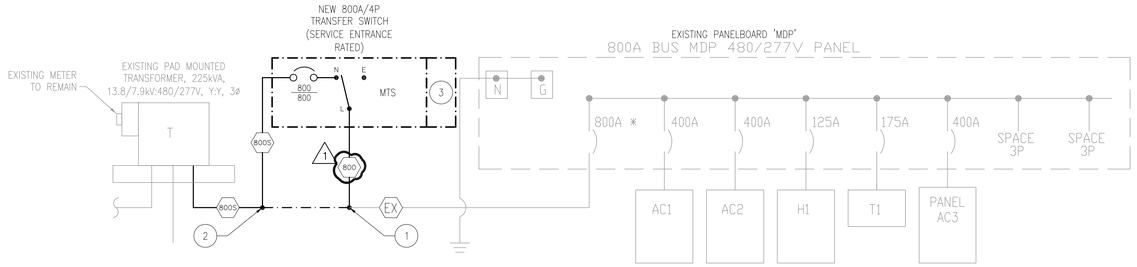
SCALE: AS NOTED
EPROJECT NO.: 870478
CONSTR. CONTR. NO. ####
NAVFAC DRAWING NO. 15041974
SHEET 2 OF 3

ES101

DRAWFORM REVISION: 7 AUGUST 2009

IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT, SCALE REDUCED ACCORDINGLY

FILE NAME: P:\CIBL\Project_Files\TEXAS\NAS KINGSVILLE TX{H}N60241\CNIC transfer switch program~870478\Working Technical Files\NAS JRB NEW ORLE870478-ES-101.dwg LAYOUT NAME: 870478-ES-101 PLOTTED: Friday, September 10, 2010 – 7:21am USER: ryan.allala



POWER ONE-LINE KEYED NOTES

1. INTERCEPT EXISTING SERVICE ENTRANCE CONDUCTORS OUTSIDE OF BUILDING. INSPECT, TEST, AND REUSE EXISTING SERVICE ENTRANCE CONDUCTORS. EXTEND TO LOAD TERMINALS OF NEW TRANSFER SWITCH LOCATED AT BUILDING EXTERIOR.
2. PROVIDE NEW SERVICE ENTRANCE CONDUCTORS FROM NORMAL TERMINALS OF NEW TRANSFER SWITCH TO EXISTING TRANSFORMER TERMINALS. EXTEND AND REUSE EXISTING SERVICE ENTRANCE CONDUIT AS REQUIRED. RECONNECT AND VERIFY PROPER OPERATION OF EXISTING CT METER.
3. PROVIDE NEMA-3R PULL BOX SIZED PER NEC 314.28 WITH REMOVABLE BOTTOM COVER FOR ROUTING PORTABLE GENERATOR CONDUCTORS INTO TRANSFER SWITCH.

FEEDER SCHEDULE

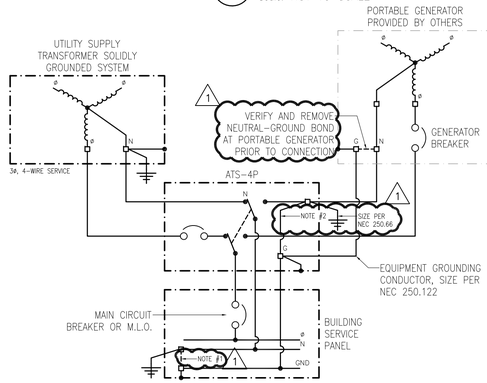
⬡	CONDUIT AND WIRE SIZES
800S	TWO 4-INCH CONDUITS, EACH CONTAINING 4-500KCMIL
800	TWO 4-INCH CONDUITS, EACH CONTAINING 4-500KCMIL, #1/0 GND

POWER ONE-LINE DIAGRAM NOTES

1. THE ELECTRICAL SERVICE ENTRANCE WORK SHALL BE INSTALLED IN ACCORDANCE WITH UNIFIED FACILITIES GUIDE SPECIFICATIONS (UFGS) AND APPLICABLE UFC CRITERIA, INCLUDING BUT NOT LIMITED TO UFC 3-501-01.
2. ALL ELECTRICAL EQUIPMENT INSTALLED OUTSIDE SHALL BE PROVIDED WITH NEMA 3R WEATHERPROOF ENCLOSURE.
3. ALL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250.
4. MAIN SERVICE DISCONNECT SHALL BE LOCKABLE TO INSTALLATIONS SPECIFICATIONS.
5. ALL FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD.
6. PROVIDE TO BUILDING OWNER AN OPERATING AND MAINTENANCE MANUAL FOR ELECTRICAL EQUIPMENT INSTALLED. THE MANUAL SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
   A. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
   B. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
   C. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
7. CONTRACTOR TO POUR AND CURE THE CONCRETE PAD IN ACCORDANCE WITH UNIFIED FACILITIES GUIDE SPECIFICATIONS (UFGS), OR INSTALL A PRE-CAST PAD THAT COMPLIES WITH UFGS SPECIFICATIONS.
8. PROVIDE AND INSTALL THE SECONDARY CABLE AND CONDUIT AS REQUIRED.

2 POWER ONE-LINE DIAGRAM

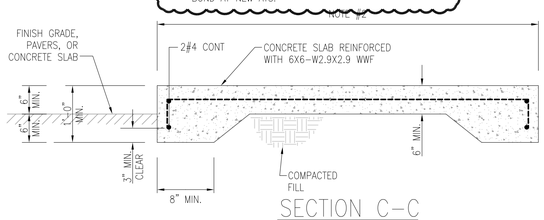
Scale: NOT TO SCALE



3 GROUNDING DIAGRAM

Scale: NOT TO SCALE

NOTES:
1. CONTRACTOR TO FIELD VERIFY AND REMOVE EXISTING NEUTRAL-GROUND BOND AT EXISTING SERVICE EQUIPMENT MAIN SWITCHBOARD.
2. CONTRACTOR TO VERIFY PRESENCE OF NEUTRAL-GROUND BOND AT NEW ATS.



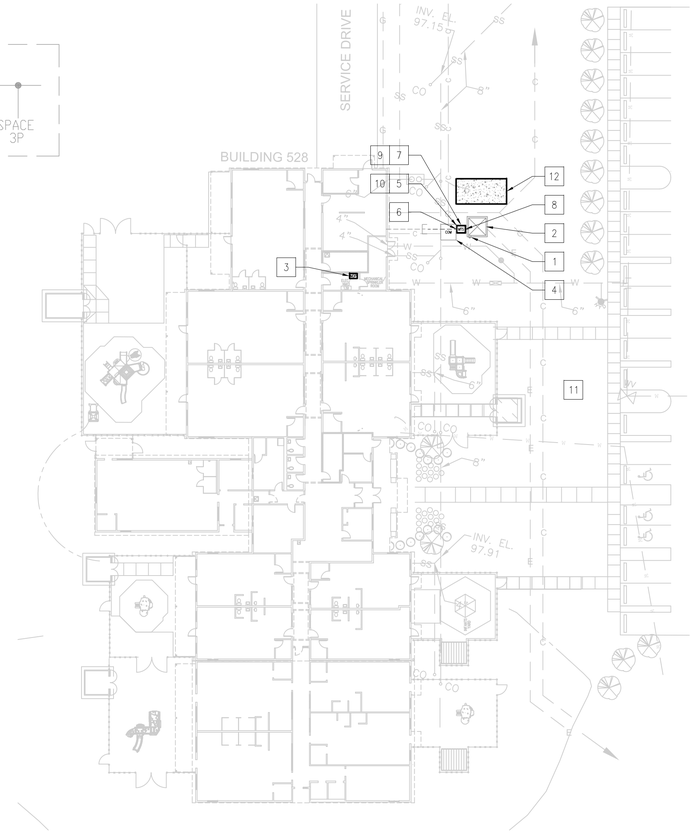
SECTION C-C
NOT TO SCALE

4 CONCRETE PAD DETAIL

Scale: NOT TO SCALE

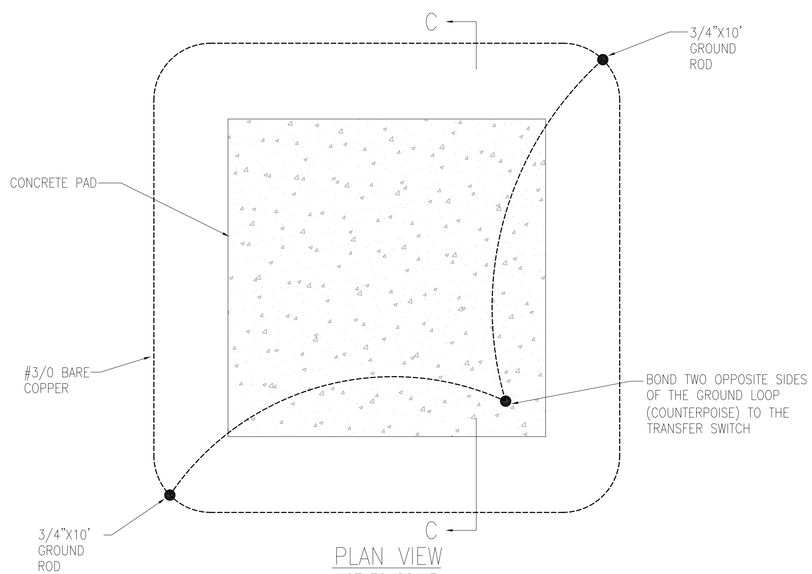
NOTES:
1. SLAB REINFORCEMENT SHALL BE CHAIRED AS REQUIRED BY LOCAL BUILDING CODES.
2. REFERENCE ELECTRICAL SITE PLAN, THIS SHEET, ELECTRICAL SITE PLAN KEYED NOTES #7, FOR TRANSFER SWITCH PAD DIMENSIONS, AND KEYED NOTES #12 FOR PORTABLE GENERATOR SLAB DIMENSIONS.

IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT, SCALE REDUCED ACCORDINGLY

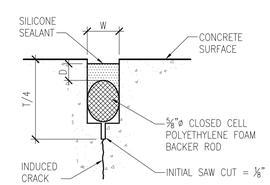


1 ELECTRICAL SITE PLAN

Scale: 1" = 30'-0"



PLAN VIEW
NOT TO SCALE



5 CONTRACTION JOINT DETAIL

Scale: NOT TO SCALE

DEFINITIONS:

W = WIDTH OF SEALANT RESERVOIR = 3/8"
D = DEPTH OF SEALANT = 3/16"
T = THICKNESS OF SLAB

GENERAL NOTES:

1. SILICONE SEALANT SHALL MEET THE REQUIREMENTS OF ASTM D5893 SELF LEVELING SEALANT.
2. ALL CONCRETE SURFACES AND JOINTS SHALL BE FLUSHED CLEAN WITH WATER AFTER BOTH INITIAL AND FINAL SAW CUTS AND PRIOR TO THE DRYING OF SAW CUT SPAWNED SLURRY.
3. BOTH JOINT FACES SHALL BE SANDBLASTED AND AIR BLOWN PRIOR TO FINAL BACKER ROD AND SEALANT INSTALLATION.
4. SEAL RESERVOIR FOR CONTRACTION JOINTS SHALL BE FORMED USING A SECOND SAW CUT. SHOULDERED BLADE SHALL NOT BE USED WITH INITIAL SAW CUT.

GENERAL ELECTRICAL SITE NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, FIRE SAFETY CODES, ENERGY CODES, THE AMERICANS WITH DISABILITIES ACT, LOCAL BUILDING CODES, AND UNIFIED FACILITIES CRITERIA.
2. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT SITE TO ENSURE THAT ALL WORK WILL MEET OR EXCEED THE ABOVE REQUIREMENTS. ANY ALLEGED DISCREPANCIES SHALL BE BROUGHT TO THE CONSTRUCTION OFFICER'S ATTENTION.
3. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
4. REFERENCE POWER ONE-LINE DIAGRAM, THIS SHEET, FOR CONDUIT AND CONDUCTOR SIZES.
5. THE LOCATIONS OF EXISTING ELECTRICAL, FIBER, TELEPHONE, CATV, WATER, SEWER, STORM SEWER, AND OTHER UTILITIES AND SITE FEATURES ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND LOCATING ALL UTILITIES PRIOR TO DIGGING WITHOUT ADDITIONAL COST TO THE GOVERNMENT.
6. EXISTING CONDITIONS ARE BASED ON RECORD DRAWINGS AND LIMITED SURFACE INVESTIGATION. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES, INCLUDING LIGHTNING PROTECTION AND GROUNDING. COORDINATE WORK WITH OTHER TRADES TO MAINTAIN A MINIMUM OF 3'-0" VERTICAL AND 3'-0" HORIZONTAL CLEARANCE FROM CROSSING OR ADJACENT UTILITIES.
7. EXISTING PRIMARY CIRCUITS MUST REMAIN ENERGIZED AND IN SERVICE DURING CONSTRUCTION. POWER OUTAGES MUST BE KEPT TO A MINIMUM.
8. THE CONTRACTOR MUST COORDINATE ALL SITE ELECTRICAL WORK WITH THE BASE HIGH VOLTAGE SHOP. PROVIDE ADVANCED WRITTEN NOTICE TO THE SHOP AND CONTRACTING OFFICER PRIOR TO ANY POWER OUTAGES REQUIRED FOR CONSTRUCTION. CONTRACTOR MUST CALL THE HIGH VOLTAGE SHOP PRIOR TO STARTING ANY WORK ON THE EXISTING UTILITY TRANSFORMER.
9. THE CONTRACTOR SHALL PHASE THE INTERCEPTION AND/OR EXTENSION OF EXISTING ELECTRICAL UTILITIES WITH THE INSTALLATION OF NEW UTILITIES TO MINIMIZE DOWN TIMES. FOR EXISTING UTILITIES THAT ARE TO BE REPLACED AND/OR RELOCATED THE NEW WORK SHALL BE INSTALLED AND PREPARED FOR RECONNECTION PRIOR TO DEMOLITION OR INTERCEPTION. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL OUTAGES WITH THE CONTRACTING OFFICER AND PUBLIC WORKS.
10. CONDUITS INSTALLED UNDER ROADWAYS, PARKING AREAS, OR OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL BE CONCRETE ENCASED. ENCASEMENT SHALL EXTEND AT LEAST FIVE (5) FEET BEYOND THE EDGE OF THE PAVEMENT OR CONCRETE.
11. PROVIDE PVC COATED RGS ELBOWS FOR SHORT RADIUS BENDS AT RISER POLES AND EQUIPMENT. OTHERWISE USE LONG SWEEP BENDS AS SPECIFIED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE ELECTRICAL WORK INCLUDING BUT NOT LIMITED TO MODIFICATIONS TO THE SECONDARY CONDUIT DUCT BANKS, TRENCHING AND BACKFILL, SECONDARY CABLING, AND TESTING.

ELECTRICAL SITE KEYED NOTES

1. EXISTING METER TO REMAIN.
2. EXISTING UTILITY TRANSFORMER TO REMAIN.
3. EXISTING PANEL 'MDP' TO REMAIN.
4. EXISTING COMMUNICATIONS HANDHOLE TO REMAIN. FIELD VERIFY EXACT LOCATION PRIOR TO COMMENCING EXCAVATION.
5. PROPOSED NEW TRANSFER SWITCH LOCATION. NEW TRANSFER SWITCH TO BE SERVICE ENTRANCE RATED. REFERENCE POWER ONE-LINE DIAGRAM, THIS SHEET.
6. INTERCEPT EXISTING SERVICE ENTRANCE CONDUCTORS OUTSIDE OF BUILDING AT LOCATION INDICATED. INSPECT, TEST, AND REUSE EXISTING SERVICE ENTRANCE CONDUCTORS. EXTEND TO LOAD TERMINALS OF NEW TRANSFER SWITCH LOCATED AT BUILDING EXTERIOR.
7. PROVIDE NEW 47" X 40" CONCRETE SLAB FOR NEW TRANSFER SWITCH. COORDINATE NEW CONCRETE SLAB DIMENSIONS WITH APPROVED TRANSFER SWITCH SUBMITTALS AND PROVIDE CONCRETE SLAB TO EXTEND A MINIMUM OF 6" BEYOND TRANSFER SWITCH ENCLOSURE ON ALL SIDES. REFERENCE CONCRETE PAD DETAIL, THIS SHEET. COORDINATE EXACT LOCATION WITH PUBLIC WORKS DEPARTMENT PRIOR TO ROUGH-IN.
8. PROVIDE NEW SERVICE ENTRANCE CONDUCTORS FROM NORMAL TERMINALS OF NEW TRANSFER SWITCH TO EXISTING TRANSFORMER TERMINALS. EXTEND AND REUSE EXISTING SERVICE ENTRANCE CONDUIT AS REQUIRED. RECONNECT AND VERIFY PROPER OPERATION OF EXISTING CT METER. REFERENCE POWER ONE-LINE DIAGRAM, THIS SHEET, FOR CONDUIT AND CONDUCTOR SIZES.
9. STUB OUT 2-1" CONDUITS FROM THE NEW TRANSFER SWITCH PULL BOX 5' BEYOND THE NEW CONCRETE SLAB AND CAP AND STAKE FOR FUTURE USE.
10. LOCATE NEW TRANSFER SWITCH TO MAINTAIN PROPER CLEARANCE ABOUT EXISTING ELECTRICAL EQUIPMENT, PER NEC 110.26.
11. THE EXISTING ELECTRICAL SITE PLAN IS NOT AN APPROVED CIVIL PLAN AND IS COMPILED FROM AS-BUILT DRAWINGS AND SCANNED RECORD DRAWINGS. THE CONTRACTOR SHOULD FIELD VERIFY ALL MEASUREMENTS, EXISTING EQUIPMENT LOCATIONS, AND EXISTING UTILITIES PRIOR TO SUBMITTING A BID.
12. PROVIDE NEW 20' X 10' CONCRETE SLAB FOR PORTABLE GENERATOR. REFERENCE CONCRETE PAD DETAIL, THIS SHEET. PROVIDE CONTRACTION JOINT AT MIDPOINT OF NEW CONCRETE SLAB. REFERENCE CONTRACTION JOINT DETAIL, THIS SHEET. COORDINATE EXACT LOCATION OF CONCRETE SLAB WITH PUBLIC WORKS DEPARTMENT PRIOR TO ROUGH-IN.

1"=30' 0' 30' 60' 90' 120' 150'

SYM	DESCRIPTION	DATE	APPR
1	AMENDMENT 0001	09/09/2010	RDA

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC / B.L.T.L.

ACTIVITY

SATISFACTORY TO DATE

DES RDA DRW RDA CHK RHF

PROJECT MANAGER T. ARTRIP

IPT TECH. BRANCH HEAD E. HANDZEL

CHIEF ENG/ARCH (CORE) R. CHURCH

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
IPT GULF COAST
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION JACKSONVILLE
NAVAL AIR STATION JRB NEW ORLEANS
NEW ORLEANS, LOUISIANA

CNIC TRANSFER SWITCH PROGRAM

ELECTRICAL SITE PLAN & DETAILS – CDC 528

SCALE: AS NOTED
EPROJECT NO.: 870478
CONSTR. CONTR. NO. ####
NAVFAC DRAWING NO. 15041975
SHEET 3 OF 3

ES102

DRAWFORM REVISION: 7 AUGUST 2009

FILE NAME: P:\OBI\Project_Files\TEXAS\NAS KINGSVILLE TX(H)N60241\CNIC transfer switch program-870478\Working Technical Files\NAS JRB NEW ORLE870478-ES-102.dwg LAYOUT NAME: 870478-ES-102 PLOTTED: Friday, September 10, 2010 - 7:20am USER: ryan.allola