THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION
CONTROL PANEL AND PLATFORM IMPROVEMENTS - PHASE 1

10600 CHEVROLET WAY, SUITE 102
ESTERO, FLORIDA 33928
Ph: (239) 390-1467
ENGINEERING BUSINESS NO. 2429
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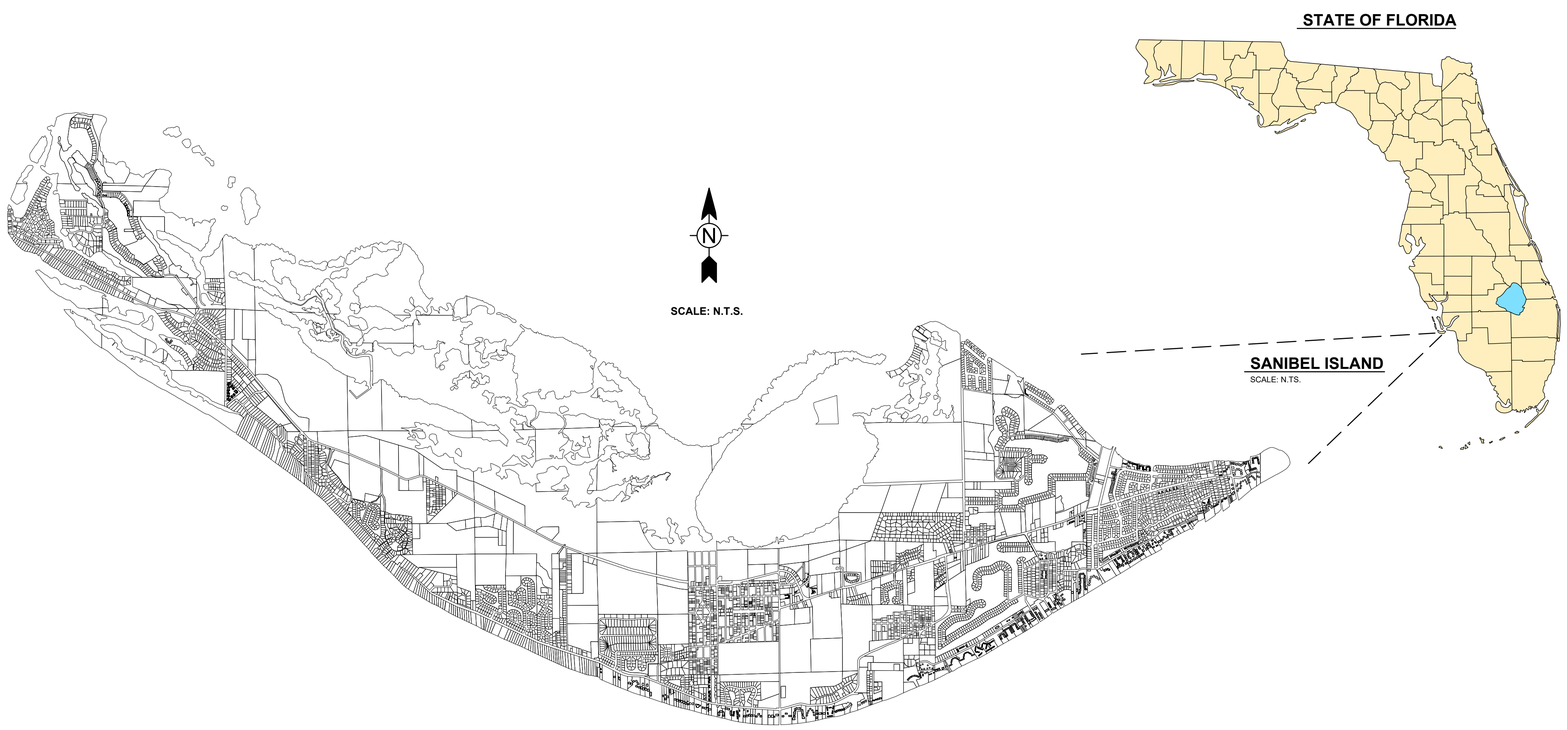

PROJECT LOCATION:
SANIBEL, FLORIDA 33957

CLIENT INFORMATION:
THE CITY OF SANIBEL
SANIBEL, FLORIDA 33957
Ph: (239) 472-1008 - Fax (239) 472-5531

Tt PROJECT No.:
200-08498-24002

CLIENT PROJECT No.:

PROJECT DESCRIPTION / NOTES:
REPLACEMENT AND INSTALLATION OF 10 LIFT STATION CONTROL PANELS AND NEW PLATFORMS

ISSUED:
02/11/26 - BID SET

VICINITY MAP:

PREPARED FOR

THE CITY OF SANIBEL

UTILITIES DEPARTMENT
800 DUNLOP ROAD
SANIBEL, FLORIDA 33957

MAYOR - MIKE MILLER
VICE MAYOR - HOLLY D. SMITH
CITY COUNCIL - RICHARD JOHNSON
CITY COUNCIL - LAURA DeBRUCE
CITY COUNCIL - JOHN HENSHAW

CITY MANAGER - DANA A. SOUZA
PUBLIC WORKS DIRECTOR - ALFRED J. MITTL, PE

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STEVEN AGAPI, P.E.
LICENSE #88612
Tetra Tech Inc.
10600 Chevrolet Way, Ste. 102
Estero, Florida 33928
Engineering Business No. 2429

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RESPONSIBLE FOR GENERAL AND CIVIL

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4910 Brownboro Rd.
Louisville, KY 61003
ENGINEERING BUSINESS NO. 2429

RESPONSIBLE FOR STRUCTURAL

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4210 Metro Parkway, Suite 230
Fort Myers, FL 33916
ENGINEERING BUSINESS NO. 26190

RESPONSIBLE FOR STRUCTURAL

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201 East Pine Street, Suite 1000
Orlando, FL 32801
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E-901	ELECTRICAL DETAILS

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LICENSE #86612
Tetra Tech Inc
10600 Chevrolet Way, Ste. 102
Estero, Florida 33928
Engineering Business No. 2429

DATE

BID SET

CITY OF SANIBEL
800 Dunlop Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

SIGNATURE SHEET
INDEX OF SHEETS

Project No.:	200-08498-24002
Designed By:	----
Drawn By:	BLS
Checked By:	LEJ

G-001

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2/20/2026 2:31:38 PM - O:\PROJECTS\ORLANDO\IER\08498\200-08498-24002\CAD\SHEETFILES\G-001 GENERAL NOTES AND INDEX.DWG - MARQUEZ, GERMAIN

GENERAL NOTES

1. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
2. ALL WORKMANSHIP AND MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE LATEST CITY OF SANIBEL STANDARDS, CONTRACT DOCUMENTS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST FORTY EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION, DEMOLITION AND/OR EXCAVATION IN ACCORDANCE WITH FLORIDA STATUTES.
5. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THE WORK PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE SITE TO DETERMINE EXISTING CONDITIONS. ANYTHING NOT SHOWN ON THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY'S ENGINEERING REPRESENTATIVE AND SHALL NOT CONSTITUTE ADDITIONAL SCOPE OF WORK APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL CONTACT THE CITY'S ENGINEERING REPRESENTATIVE IMMEDIATELY CONCERNING ANY CONFLICTS ARISING DURING CONSTRUCTION. SEE UTILITY OWNER NOTES FOR CONTACT INFORMATION.
8. ALL CONSTRUCTION ACTIVITIES MUST CONFORM TO THE LOCAL NOISE ORDINANCE.
9. HOURS OF WORK SHALL BE IN ACCORDANCE WITH THE CITY ORDINANCES.
10. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
11. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION, "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION "DESIGN STANDARDS".
12. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN EFFECTIVE BARRICADES, DANGER SIGNALS, SIGNS AND PEDESTRIAN DETOURS IN ALL AREAS WHERE REQUIRED FOR THE PROTECTION OF THE WORK AND THE SAFETY OF THE PUBLIC.
13. A REGISTERED LAND SURVEYOR, AT THE CONTRACTOR'S EXPENSE, SHALL RESET ALL SECTION CORNERS OR PROPERTY CORNERS DISLOCATED OR DISTURBED BY ANY CONSTRUCTION RELATED ACTIVITIES.
14. ANY NATIONAL GEODETIC SURVEY (NGS) MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, CONTRACTOR SHALL NOTIFY THE CITY'S FIELD REPRESENTATIVE IMMEDIATELY AND CONTACT THE NATIONAL GEODETIC SURVEY INFORMATION CENTER.
15. UNLESS NOTED ON THE PLANS, FINAL GRADE IS TO GENERALLY BE THE SAME AS EXISTING GRADE. RESTORE UNIFORMLY AND FOR PROPER YARD DRAINAGE GRADE TOWARD ROADWAY.
16. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING AND BRACING IS ANTICIPATED TO BE REQUIRED IN ACCORDANCE WITH LOCAL, STATE, OR FEDERAL REGULATIONS FOR CONSTRUCTION.
17. MATERIALS INTERFERING WITH CONSTRUCTION SHALL BE DISPOSED OF AS DIRECTED BY THE CITY'S ENGINEERING REPRESENTATIVE, UNLESS OTHERWISE NOTED ON PLANS.
18. ALL EXCESS SOIL RESULTING FROM CONSTRUCTION ACTIVITIES THAT IS NOT CLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF BY THE CONTRACTOR.
19. ALL DISTURBED LANDSCAPED AND/OR GRASSED AREAS SHALL BE RESTORED UNIFORMLY AND BE GENERALLY AT THE SAME ELEVATION AS EXISTING GRADES.
20. ALL DISTURBED AREAS SHALL BE REPLACED WITHIN FIFTEEN (15) DAYS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
21. ALL VOIDS AFTER PLACEMENT OF SOD SHALL BE FILLED WITH PREPARED SOIL MIX. THE SOD SHALL BE ROLLED TO MEET THE PROPOSED GRADES. SOD PLACED ON SLOPES 3:1 OR STEEPER SHALL BE PEGGED.
22. THE CONTRACTOR SHALL MAINTAIN AN ACCURATE SET OF MARKED-UP DRAWINGS (AS-BUILTS) AT THE CONSTRUCTION SITE.
23. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIALS, CONSTRUCTION DEBRIS, AND OTHER WASTE MATERIALS OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS AT THE CONTRACTOR'S EXPENSE. ALL BACKFILL SHALL BE FREE OF UNSUITABLE MATERIALS.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A HURRICANE PREPARATION PLAN TO THE CITY'S ENGINEERING REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
25. ANY DAMAGE TO CITY, COUNTY, OR STATE ROADS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR IN A TIMELY MANNER AND TO THE SATISFACTION OF THE CITY'S ENGINEERING REPRESENTATIVE. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
26. THE CONTRACTOR SHALL PROTECT PRIVATE PROPERTY.
27. BASE DRAWING INFORMATION WAS OBTAINED FROM THE CITY OF SANIBEL RECORD DRAWINGS AND GIS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PRESENCE, LOCATION AND ELEVATION OF ALL EXISTING PIPING, ELECTRICAL FACILITIES, AND ASSOCIATED EQUIPMENT PRIOR TO BIDDING.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING ANY EQUIPMENT AND COMPONENTS DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE.
29. ALL STAINLESS-STEEL HARDWARE, FASTENERS, AND ANCHORS SHALL BE ASSEMBELED WITH AN ANTISEIZE COMPOUND SPECIFICALLY FORMULATED FOR USE WITH STAINLESS STEEL IN SIMILAR CONDITIONS AND APPLICATIONS.
30. WHERE THE CITY'S TECHNICAL SPECIFICATIONS, SUPPLEMENTAL TECHNICAL SPECIFICATIONS, AND DRAWINGS CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
31. ALL AREAS DISTURBED DURING INSTALLATION OF LIFT STATIONS CONTROL PANEL PLATFORMES SHALL BE RESTORED WITH BAHIA SOD. RESTORATION SHALL INCLUDE GRADING, SOIL PREPARATIONS, AND PLACEMENT OF SOD TO ENSURE FULL STBAILIZATION AND COMPLIANCE WITH PROJECT SPECIFICATIONS.
32. CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCING AND INLET PROTECTION AT EACH LIFT STATION FOR THE DURATION OF CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTHWORK AND MAINTAINED IN EFFECTIVE CONDITION AT ALL TIMES.

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BID SET

CITY OF SANIBEL
800 Dunlop Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

GENERAL NOTES & INDEX OF SHEETS

Project No.:	200-08498-24002
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Drawn By:	BLS
Checked By:	LEJ

G-002

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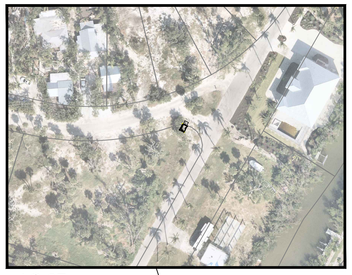

LS-97
2501 COCONUT DRIVE

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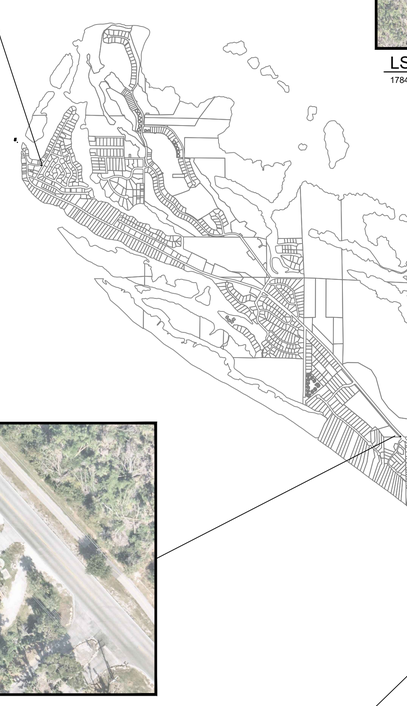
1784 BUNTING LN

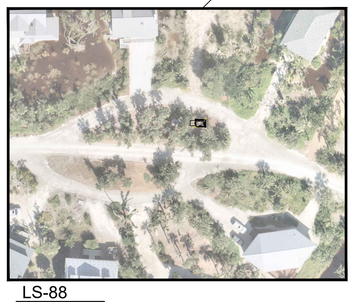
LS-46
956 DIXIE BEACH BLVD

LS-14
757 BIRDIE VIEW DR

LS-17
900 BAILEY RD

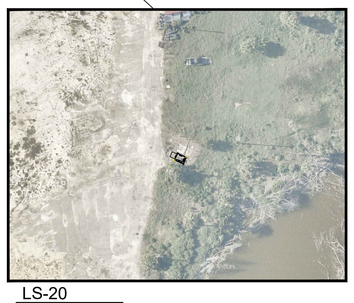


LS-54
4847 SANIBEL CAPTIVA RD



LS-88
4225 GULF PINE DR

LS-55
3585 SANIBEL CAPTIVA RD



LS-20
2477 PERIWINKLE WAY

LS-5
700 BEACH RD

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STEVEN AGAPI, P.E.
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Engineering Business No. 2429

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CITY OF SANIBEL
800 Dunlop Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LOCATION MAP

Project No.:	200-08498-24002
Designed By:	SJA
Drawn By:	BLS
Checked By:	LEJ

G-003

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Bar Measures 1 inch

2/20/2026 2:33:39 PM - O:\PROJECTS\ORLANDO\IER\08498\200-08498-24002\CAD\SHEETFILES\G-002 LS LOCATION MAP.DWG - MARQUEZ, GERMAIN

UTILITIES EASEMENT
O.R. BOOK 1700 PAGE
2744

OWNER: 764 BEACH ROAD
LLC
O.R. BOOK 1700 PAGE 2744
PARCEL V
STRAP:
29-46-23-T1-00001.0140

PARCEL "V" BOUNDARY LINE
PER DEED

25.00'
ROADWAY EASEMENT

BEACH ROAD

EDGE OF ASPHALT

CB
GRATE ELEVATION=2.79
INV SW=1.06

EXISTING 4" CAMLOCK FITTING
TO BE USED FOR BYPASS

INV. = 0.98

12"X18" EL RCP

CONCRETE
VALVE VAULT

MAHOGANY
(TYPICAL)

CENTERLINE OF
BUTTONWOOD HEDGE

4"FM

FM (UNKNOWN
DIAMETER)
BASED ON SPRAY
PAINT MARKINGS AND
GIS INFORMATION

CONTRACTOR TO
FIELD LOCATE FM
PRIOR TO
INSTALLATION

ASPHALT PATH

CONCRETE
WET WELL

LS #5

ELECTRICAL RACK WITH TERMINAL
CABINET AND DISCONNECT
SWITCHES (SEE ELEC. PLANS)

EX. UNDERGROUND CONDUIT

FOUND 5/8"
REBAR
(NO CAP)

0.37'

POWER PANEL
BOTTOM
ELEVATION=10.1

SANITARY MH
RIM ELEV.=4.31

LS #5 (INFO FROM ASBUILTS)
RIM ELEV. = 5.19
N. INV. = 6.11 8 " CLAY
NE. INV. = -7.01
S. INV. = -1.21 8" CLAY

BENCHMARK
NAIL AND DISK (LB 4919)
IN CONCRETE
ELEV.=4.88 (NAVD88)

EX. WM UNKNOWN DIA
SHOWN IN ASBUILT PRINTS

EAST GULF DRIVE

ASPHALT PATH

4.32
NAIL CONT DISK LB4919

FOUND NAIL AND DISK
(LB 4919)

FOUND 5/8"
REBAR
WITH CAP (LB
4919)

CATCH BASIN
GRATE ELEV.=2.91

UNKNOWN
HANDHOLE

TELEPHONE
BOX

COMCAST
BOX

TELEPHONE
BOX

TELEPHONE BOX
WITH CONCRETE
METER PAD

COLUMN
N: 765611.44
E: 643205.77
GRND. EL: 4.8'

COLUMN
N: 765611.44
E: 643214.69
GRND. EL: 4.9'
LADDER

8'-11"

6'-8"

COLUMN
N: 765604.78
E: 643205.77
GRND. EL: 4.9'

COLUMN
N: 765604.78
E: 643214.72
GRND. EL: 5.1'

CONCRETE
PAD

STEPS

FOUND 5/8"
REBAR
WITH CAP (LB
4919)

EDGE OF SEAGRAPE
AND CABBAGE PALMS

POWER PANELS
BOTTOM
ELEVATION=16.7

ELEVATED
WOOD
GENERATOR
PLATFORM
ELEVATION=13.27

OWNER: CITY OF SANIBEL
O.R. BOOK 1545 PAGE 1784
STRAP: 29-46-23-T1-00001.014B

DIRT PARKING AREA

EDGE OF DIRT

FOUND 5/8"
REBAR
WITH CAP (LB
4919)

LOGGERHEAD CAY
CONDOMINIUM
ASSOCIATION INC
INSTRUMENT NUMBER:
2023000137363
STRAP:
30-46-23-T2-00700.00CE

TORTUGA BEACH CLUB
CONDOMINIUM
TIMESHARE
O.R. BOOK 1566 PAGE
2174
STRAP:
29-46-23-T1-00900.00CE

0 5' 10' 20'
SCALE: 1" = 10'

Bar Measures 1 inch

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LS 05 EXISTING CONDITIONS W/ PROPOSED PLATFORM

Project No.:	200-08498-24002
Designed By:	SJA
Drawn By:	BLS
Checked By:	LEJ

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OWNER: JAMES M AND JODIE S NABER
UNIT 1 BLOCK B LOT 11
P.B. 30 PAGE 70
STRAP: 30-46-23-T1-0020B.0110

760 BIRDIE VIEW POINT

OWNER: THE END GOLF MANAGEMENT
TRACT B
P.B. 54 PAGES 87-97
STRAP: 30-46-23-T1-03408B.0000

OWNER: WILLIAM E AND VIRGINIA O FELLOWS
UNIT 1 BLOCK B LOT 10
P.B. 30 PAGE 70
STRAP: 30-46-23-T1-0020B.0090

740 BIRDIE VIEW POINT

30.00'
30.00'

FOUND 5/8" REBAR WITH CAP (LB 4919)

BIRDIE VIEW POINT

EDGE OF ASPHALT

EDGE OF BRICK POOL DECK

SANITARY MH
RIM ELEV.=4.98

POLE
ASSUMED DROP SERVICE
NO INFORMATION ON UNDERGROUND CONDUITS OBTAINED.

6.00' U.E (TYP.)

CONTRACTOR TO COORDINATE WITH CITY FOR SITE ACCESS THROUGH THE EXISTING GOLF COURSE CART PATH

REMOVE VEGETATION

CONCRETE VALVE VAULT

PUMP STATION NO. 14 EASEMENT

EXISTING 4" CAMLOCK FITTING TO BE USED FOR BYPASS

POWER PANEL BOTTOM ELEVATION=9.0

LS #14

CONCRETE WET WELL

LADDER

SANITARY MH
RIM ELEV.=4.18

BENCHMARK
NAIL AND DISK IN CONCRETE
ELEVATION=5.14 (NAVD88)

EX. 4" FM SHOWN IN GIS

CONCRETE PATH

COLUMN
N: 765516.68
E: 639885.63
GRND. EL: 3.9'

COLUMN
N: 765514.18
E: 639879.48
GRND. EL: 4.0'

COLUMN
N: 765505.93
E: 639882.88
GRND. EL: 4.1'

COLUMN
N: 765508.48
E: 639889.04
GRND. EL: 4.1'

BLACK OLIVE

AUTOGRAPHS

COCONUT

17.17'

6'-8"

8'-11"

4.80'
4.57'
4.74'
4.67'
4.50'
4.90'
3.40'
3.45'
3.43'
3.47'
3.50'
3.49'
3.56'
4.18'

8"SS
4"FM

0 5' 10' 20'
SCALE: 1" = 10'

N

LEGEND

- TREE REMOVAL
- TREE PROTECTION
- DEMOLITION
- CONCRETE

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LS 14 EXISTING CONDITIONS W/ PROPOSED PLATFORM

Project No.:	200-08498-24002
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C-102

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Bar Measures 1 inch

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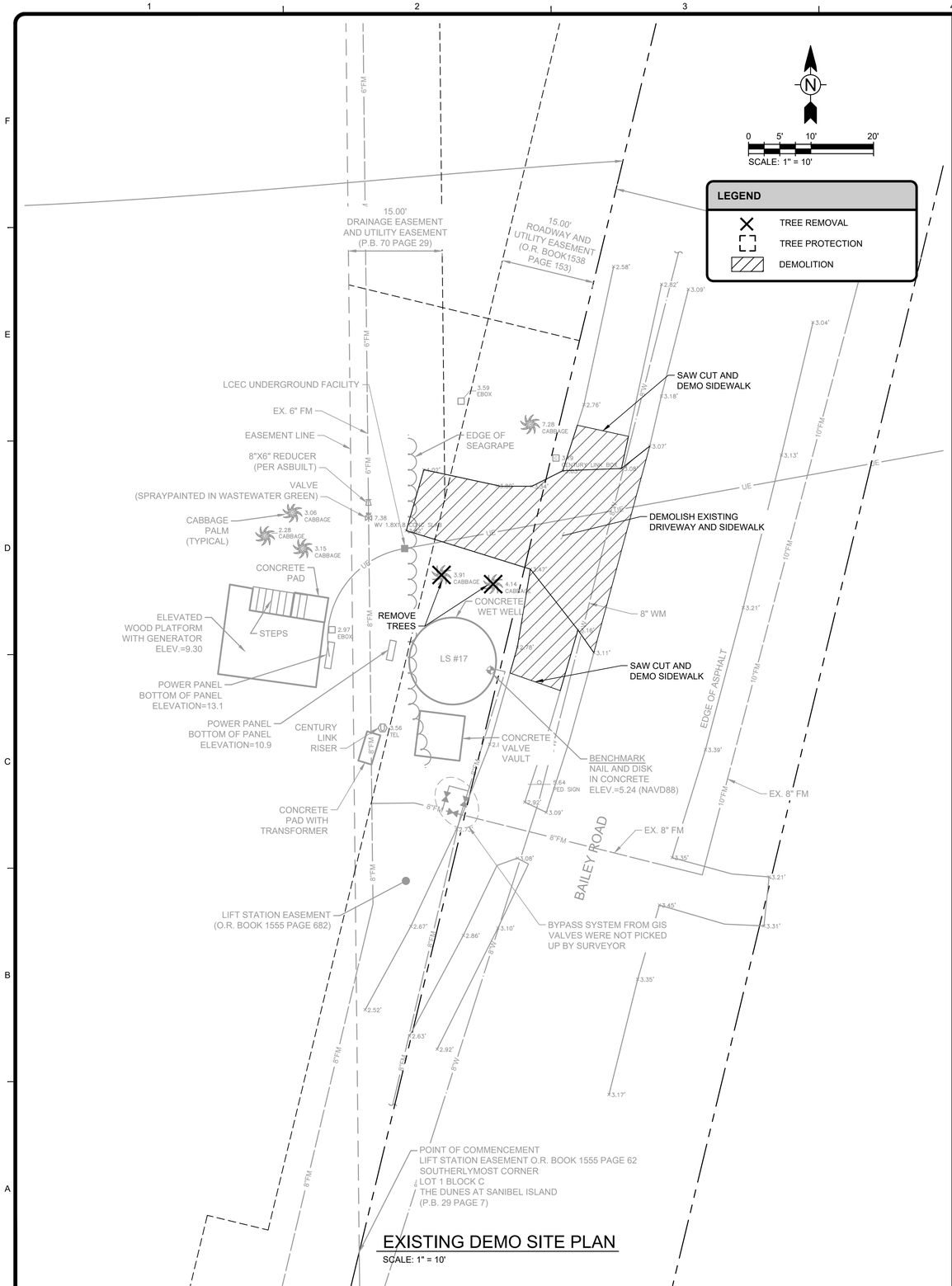
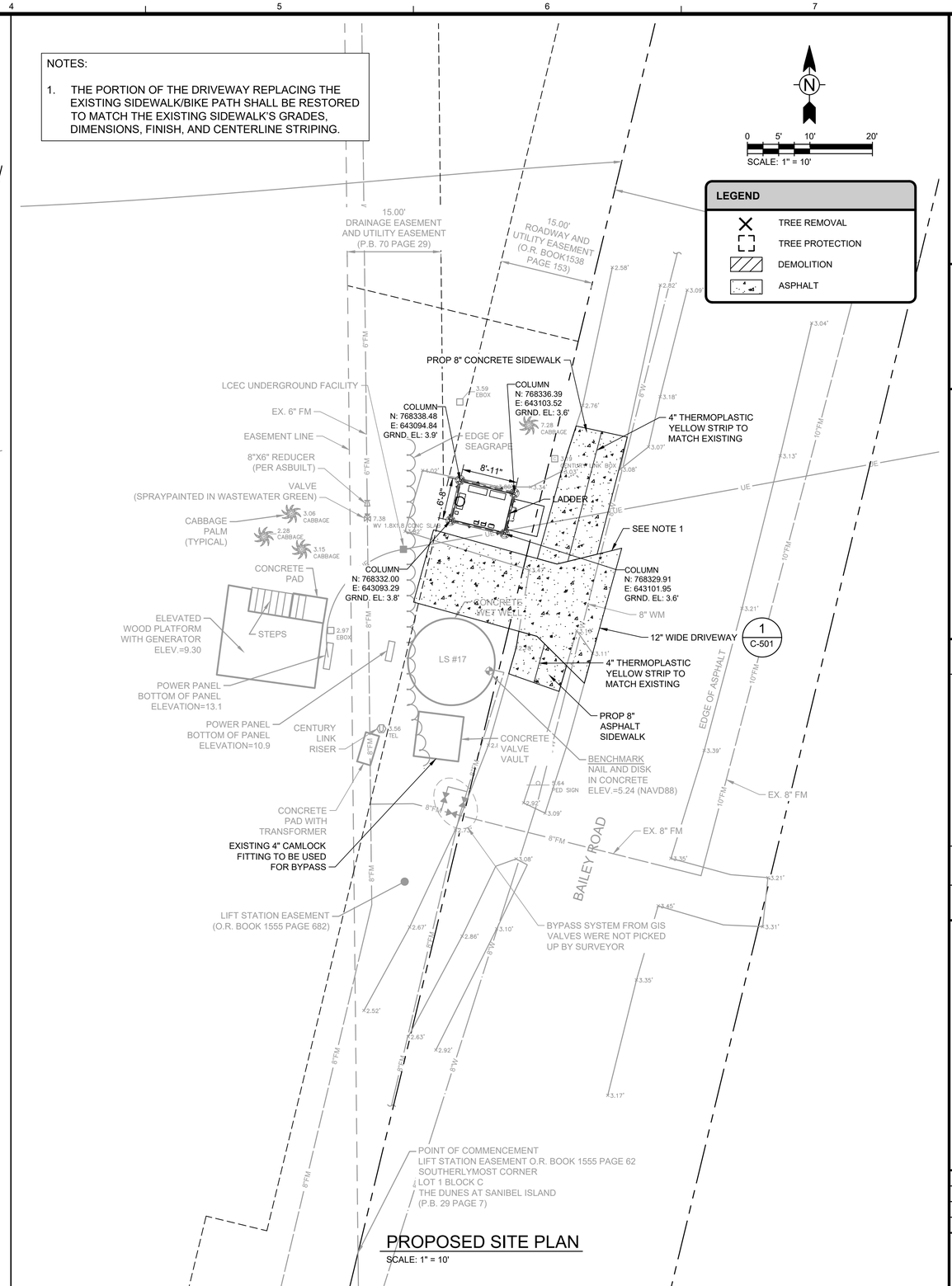


EXISTING DEMO SITE PLAN

SCALE: 1" = 10'

NOTES:

1. THE PORTION OF THE DRIVEWAY REPLACING THE EXISTING SIDEWALK/BIKE PATH SHALL BE RESTORED TO MATCH THE EXISTING SIDEWALK'S GRADES, DIMENSIONS, FINISH, AND CENTERLINE STRIPING.



PROPOSED SITE PLAN

SCALE: 1" = 10'

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LS 17 EXISTING CONDITIONS W/ PROPOSED PLATFORM

Project No.:	200-08498-24002
Designed By:	SJA
Drawn By:	BLS
Checked By:	LEJ

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Bar Measures 1 inch

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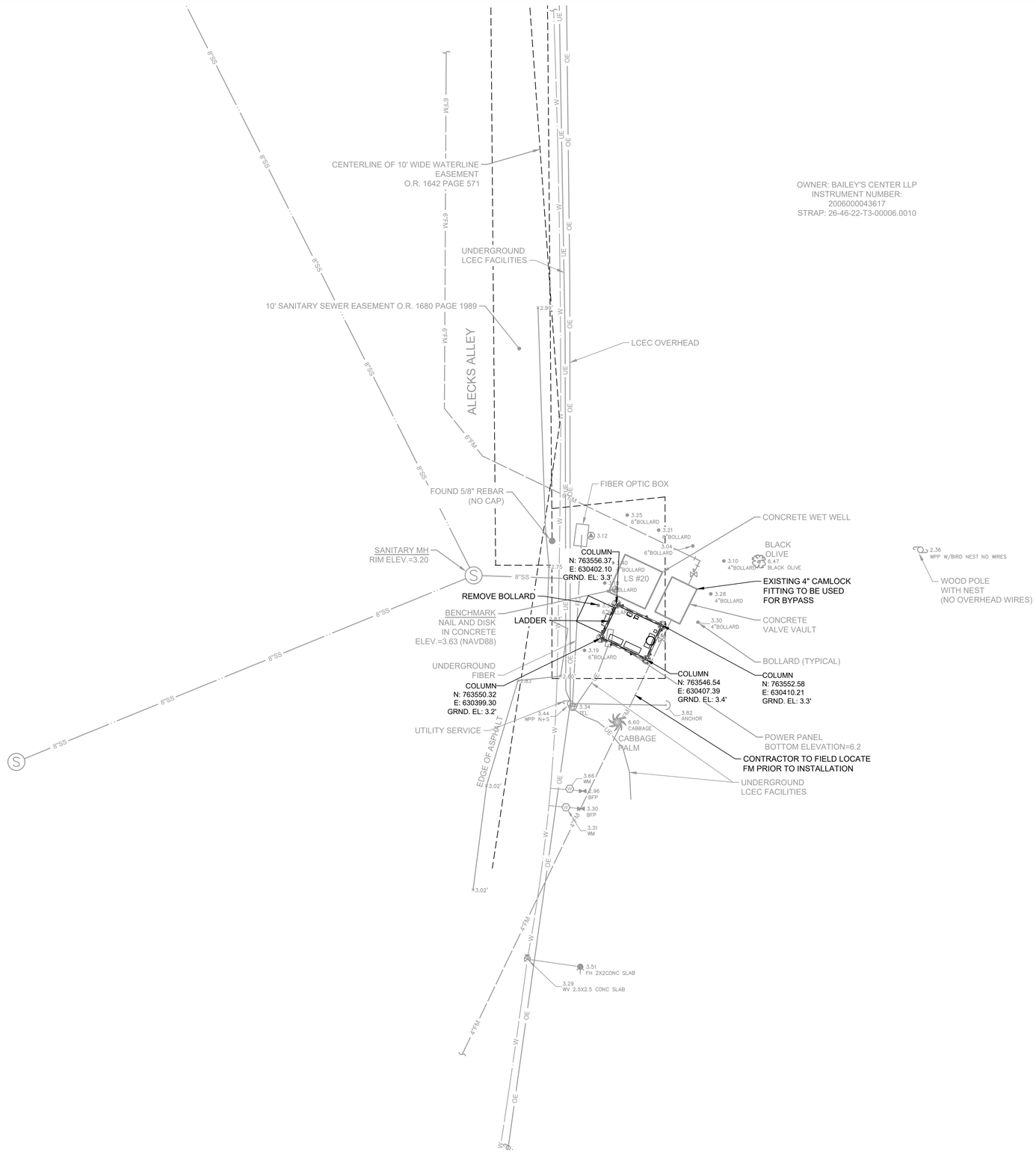

NOTES:

1. THERE IS CURRENLTY NO FLOW BEING RECIEVED AT LS 20 AND THERE IS NO ANTICIAPTED FLOW DURING THE CONSTRUCTION PERIOD

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LS 20 EXISTING CONDITIONS W/ PROPOSED PLATFORM

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Bar Measures 1 inch

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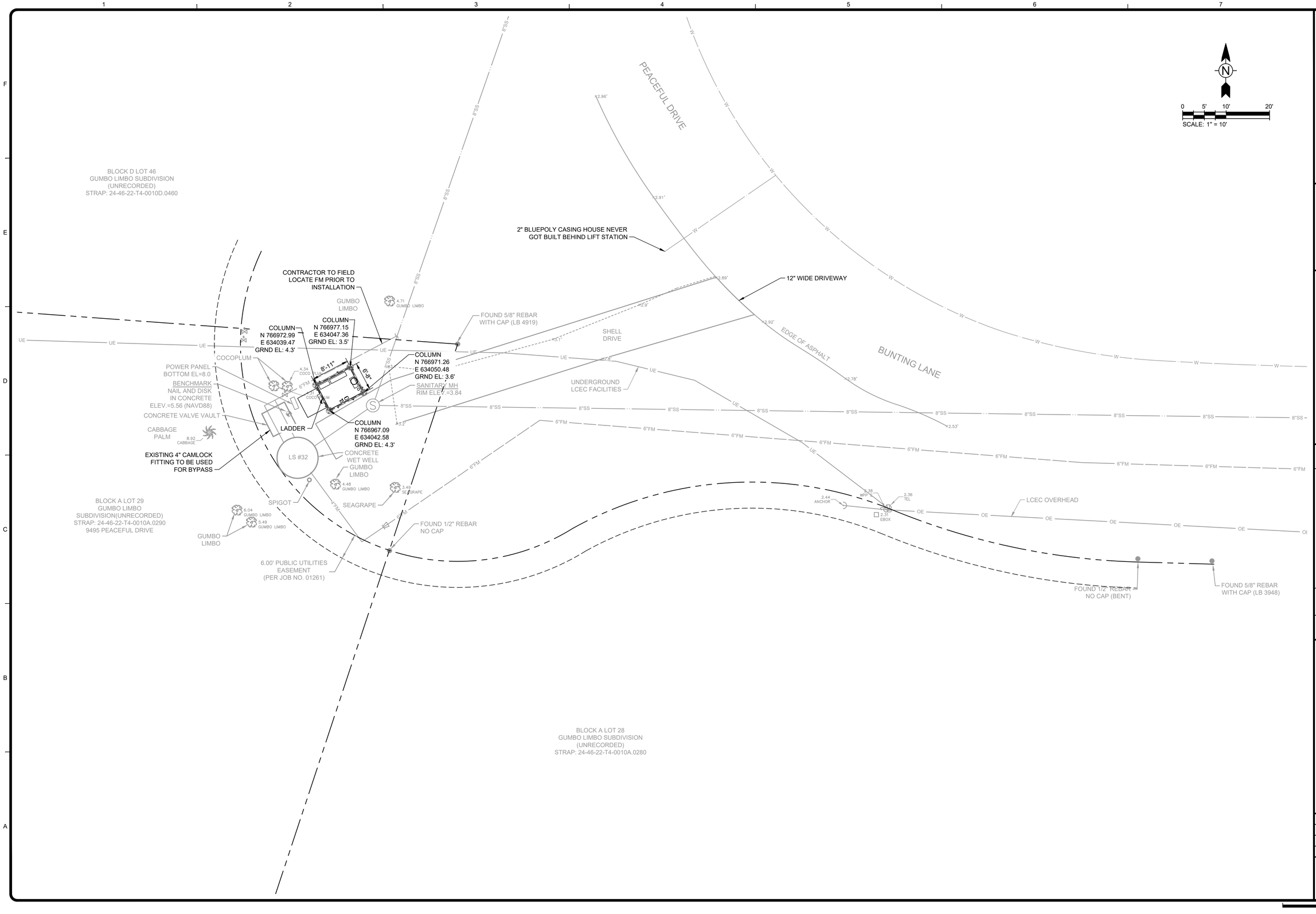

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LS 32 EXISTING CONDITIONS W/ PROPOSED PLATFORM

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Bar Measures 1 inch

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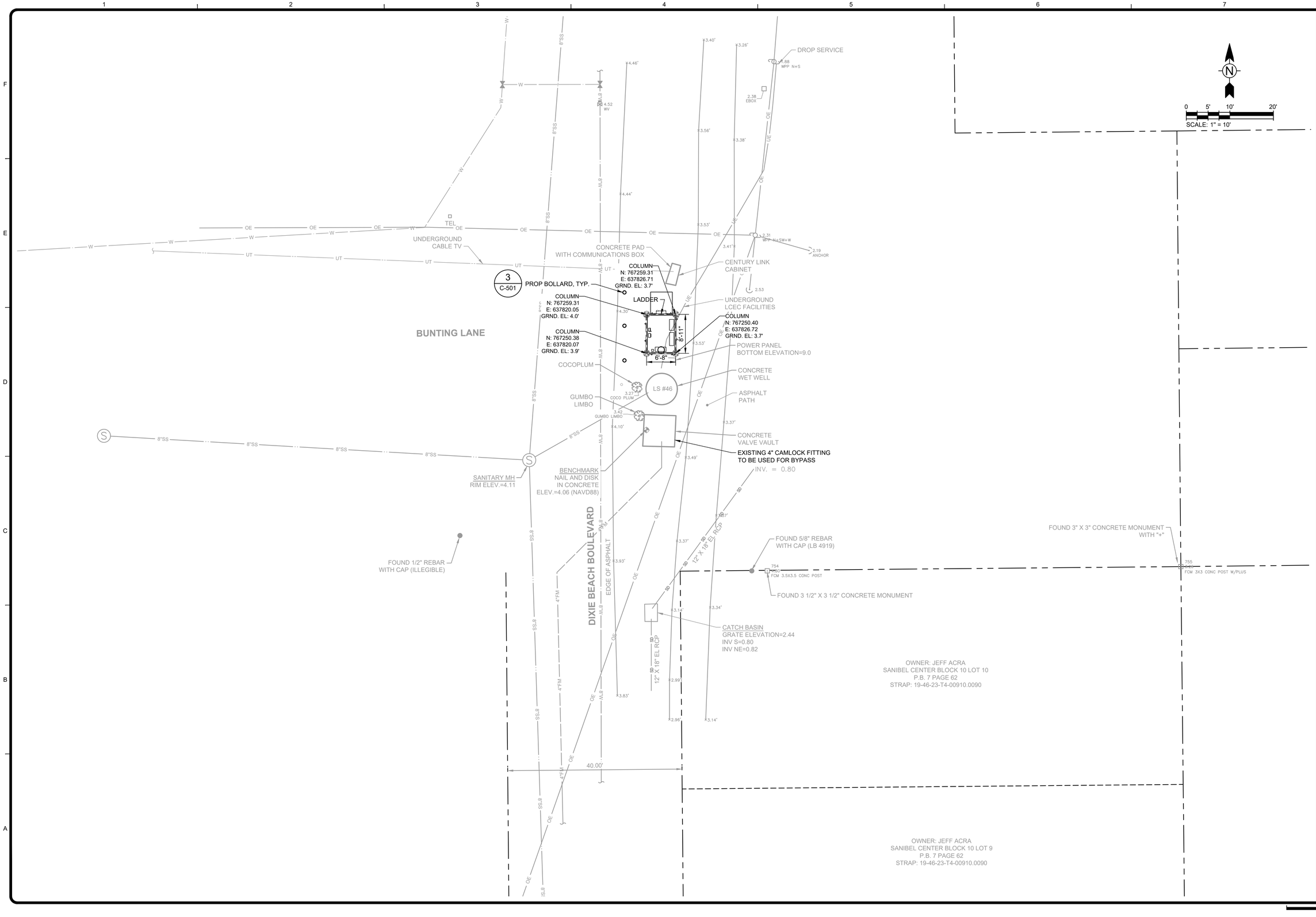

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LS 46 EXISTING CONDITIONS W/ PROPOSED PLATFORM

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Bar Measures 1 inch

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SCALE: 1" = 10'

TRACT A
P.B. 35 PAGE 43

SANIBEL CAPTIVA
CONSERVATION F

LCEC OVERHEAD

OVERHEAD FIBER
(CROWN CASTLE)

UNDERGROUND
LCEC FACILITIES

DIRT
DRIVE

CONCRETE WET WELL

DWARF
BUTTONWOOD

BENCHMARK
NAIL AND DISK
IN CONCRETE
ELEV.=4.06 (NAVD88)

SANITARY MH
RIM ELEV.=4.39

COLUMN
N: 771552.94
E: 609403.22
GRND. EL: 3.7'

COLUMN
N: 771549.38
E: 609397.63
GRND. EL: 3.3'

LADDER

LS #54

8'-11"

6'-8"

WOOD BORDER

LCEC OVERHEAD

SANITARY MH
RIM ELEV.=4.07

CONTRACTOR TO VERIFY AND COORDINATE
WITH CITY FOR BYPASS CONNECTION

COLUMN
N: 771545.44
E: 609408.00
GRND. EL: 3.8'

COLUMN
N: 771541.87
E: 609402.41
GRND. EL: 3.6'

CONCRETE
VALVE
VAULT

DRIVE

CABBAGE
PALMS
(TYPICAL)

FOUND 1/2" REBAR
(NO CAP)

POWER PANEL
BOTTOM ELEVATION=15.8

POWER PANELS ENCLOSED IN
10' CHAIN LINK FENCE

ELEVATED WOOD
GENERATOR PLATFORM
ELEV.=11.69

STEPS

CONCRETE
PAD

LCEC OVERHEAD

SANITARY MH
RIM ELEV.=4.16

TRACT C
P.B. 35 PAGE 1

20' ROADWAY EASEMENT

SEASPRAY
LANE

SANIBEL-CAPTIVA ROAD

EDGE OF ASPHALT

S18-T46S-R22E
S19-T46S-R22E

OWNER: SANIBEL CAPTIVA
CONSERVATION F
P.B. 35 PAGE 1 TRACT A
P.B. 33 PAGE 65 TRACT B
P.B. 35 PAGE 43 TRACT B
STRAP: 18-46-22-T4-U85782689

Bar Measures 1 inch

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THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL
PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LS 54 EXISTING CONDITIONS W/ PROPOSED PLATFORM

Project No.:	200-08498-24002
Designed By:	SJA
Drawn By:	BLS
Checked By:	LEJ

C-107

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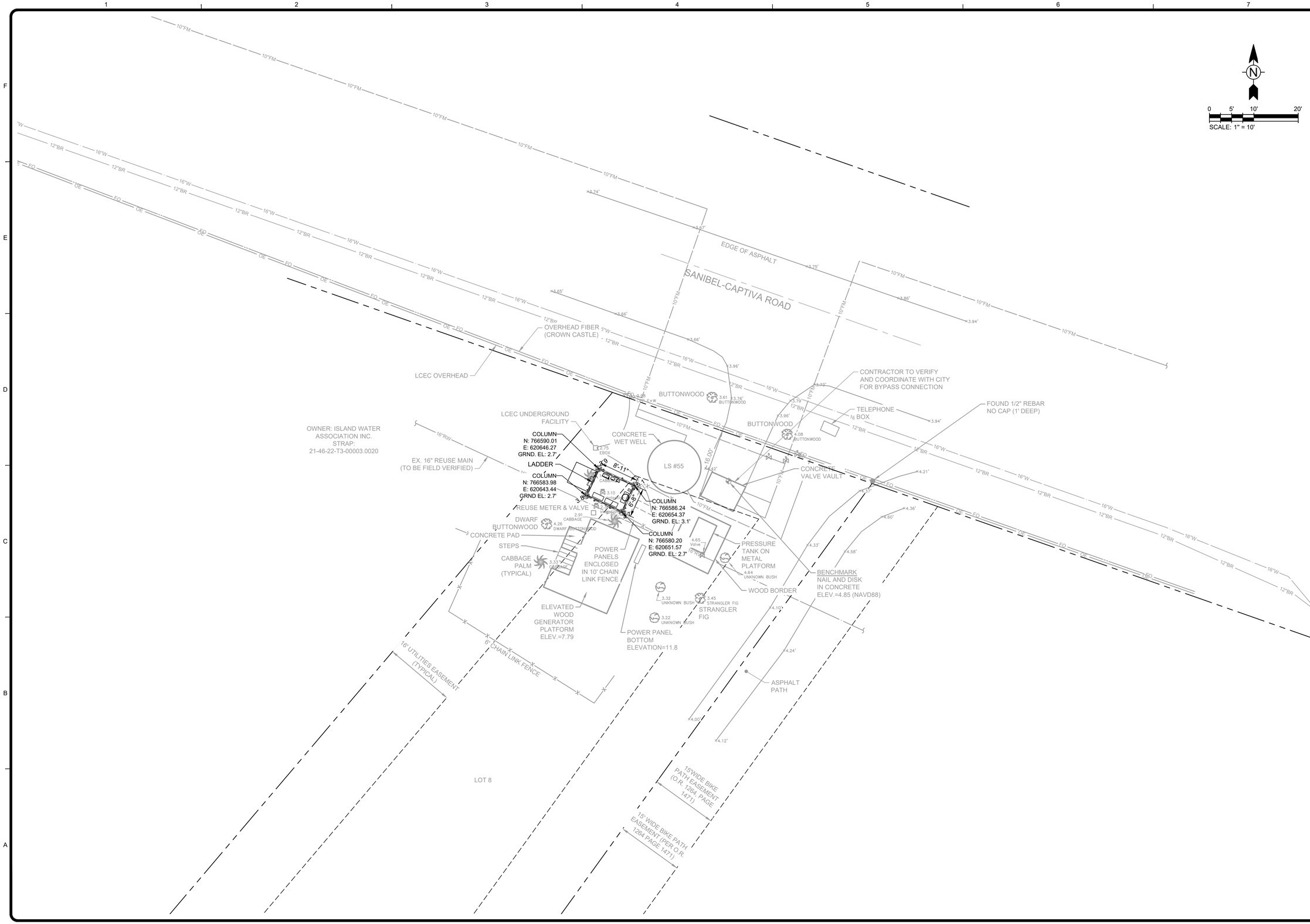

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LS 55 EXISTING CONDITIONS W/ PROPOSED PLATFORM

Project No.:	200-08498-24002
Designed By:	SJA
Drawn By:	BLS
Checked By:	LEJ

C-108

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Bar Measures 1 inch

BENCHMARK
SET NAIL AND DISK IN CONCRETE
(LB 8267) ELEV. = 4.74' (NAVD88)

FOUND 5/8" REBAR WITH CAP (LB 4919)

POWER PANEL
BOTTOM OF PANEL ELEVATION=9.5

COLUMN
N: 767395.73
E: 613552.99
GRND. EL: 4.1'

COLUMN
N: 767395.73
E: 613561.90
GRND. EL: 3.9'

8'-11"

6'-8"

LADDER

LCEC UNDERGROUND CONDUIT

CABBAGE PALM (TYPICAL)

COLUMN
N: 767389.06
E: 613553.02
GRND. EL: 4.2'

COLUMN
N: 767389.06
E: 613561.92
GRND. EL: 4.1'

LS #88

VALVE VAULT

EXISTING 4" CAMLOCK FITTING TO BE USED FOR BYPASS

CONCRETE WET WELL

SANITARY MH
RIM ELEV.=4.48

STRANGLER FIG

SEAGRAPE (TYPICAL)

LCEC METER

EM

GULF PINES DRIVE
(VARIABLE RIGHT-OF-WAY WIDTH PER PLAT)

FOUND 1/2" REBAR (NO CAP)

LCEC UNDERGROUND FACILITY

APPARENT MEDIAN PER PLAT

GUMBO LIMBO

EDGE OF GRAVEL

END OF EX. 4" FM SHOWN IN GIS
UNABLE TO CONFIRM WITH ASBUILTS

FOUND 5/8" REBAR (NO CAP)

APPARENT MEDIAN PER PLAT

ASSUMED CONDUIT FOR POWER

FOUND 5/8" REBAR WITH CAP (LB 4919)

EX. LCEC 240v TRANSFORMER

0 5' 10' 20'
SCALE: 1" = 10'

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LS 88 EXISTING CONDITIONS W/ PROPOSED PLATFORM

Project No.:	200-08498-24002
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Bar Measures 1 inch

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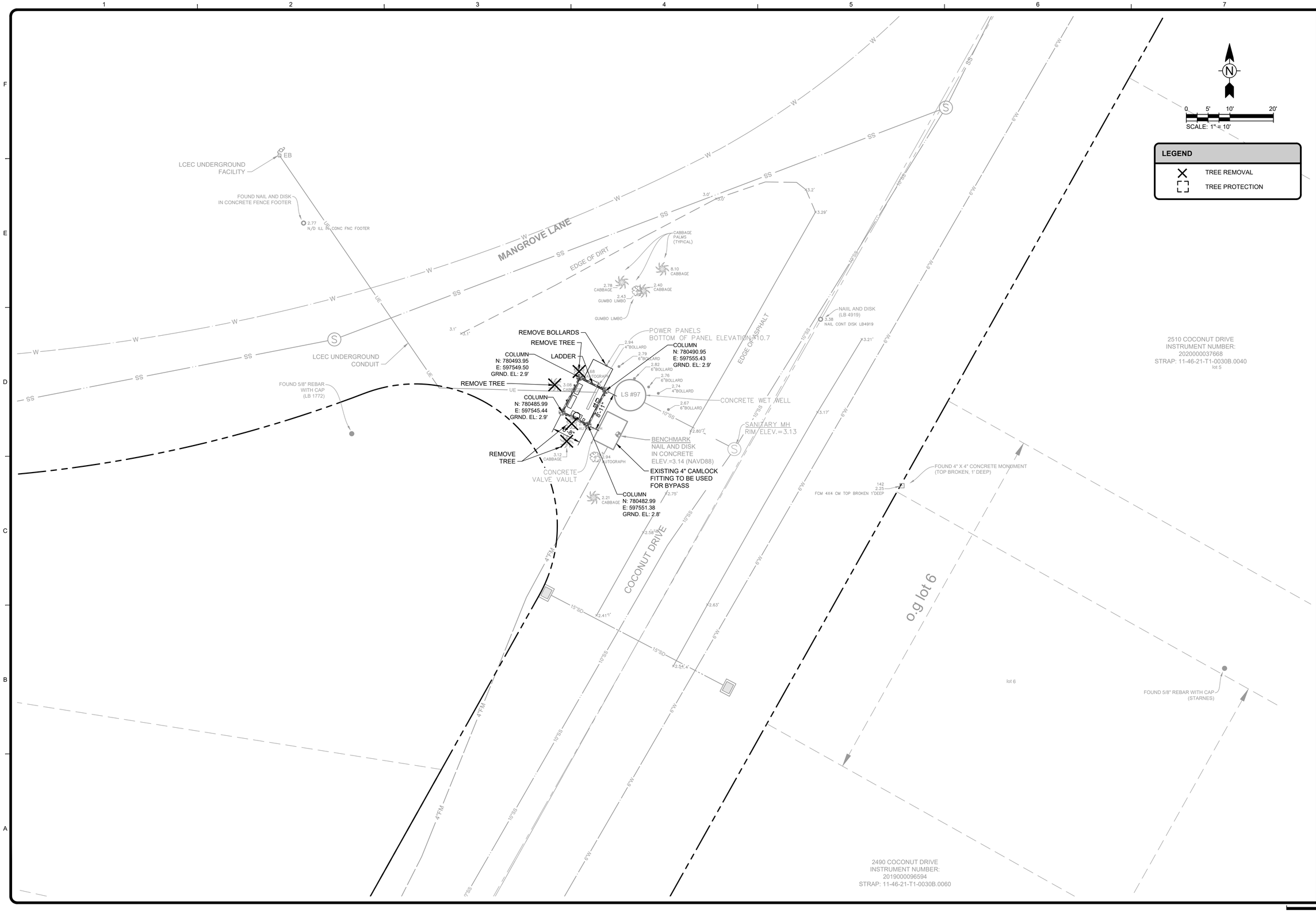

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Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LS 97 EXISITING CONDITIONS W/ PROPOSED PLATFORM

Project No.:	200-08498-24002
Designed By:	SJA
Drawn By:	BLS
Checked By:	LEJ

C-110

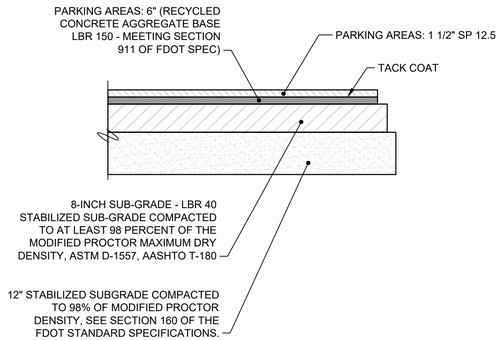
Copyright: Tetra Tech

Bar Measures 1 inch

2/20/2026 2:34:38 PM - O:\PROJECTS\ORLANDO\IER\08498\200-08498-24002\CAD\SHEETFILES\C-10X EXISTING CONDITIONS.DWG - MARQUEZ, GERMAIN

1 BITUMINOUS ASPHALT PAVEMENT

SCALE: NTS

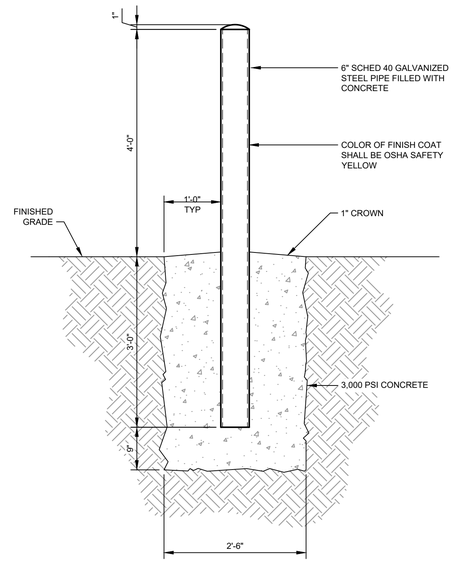


NOTES:

1. CONTRACTOR'S MEANS AND METHODS INCLUDE STABILIZING SOILS BENEATH THE RECYCLED CONCRETE AGGREGATE BASE, THEN THE STABILIZING MATERIAL SHOULD BE COARSE MATERIAL (E.G., GRAVEL.) LOW PERMEABILITY SOILS (E.G., SILT AND/OR CLAY) SHOULD NOT BE USED AS STABILIZING MATERIAL BENEATH RECYCLED CONCRETE AGGREGATE BASE.

2 BOLLARD

SCALE: NTS



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DATE

BID SET

CITY OF SANIBEL
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Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

CIVIL DETAILS

Project No.:	200-08498-24002
Designed By:	SJA
Drawn By:	BLS
Checked By:	LEJ

C-501

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Bar Measures 1 inch

2/20/2026 2:34:50 PM - O:\PROJECTS\ORLANDO\ER\08498\200-08498-24002\CAD\SHEETFILES\C-501 CIVIL DETAILS.DWG - MARQUEZ, GERMAIN

STRUCTURAL GENERAL NOTES

1. THESE GENERAL NOTES PRESENT AND/OR SUMMARIZE KEY PROJECT INFORMATION FOR THE DRAWING READER'S CONVENIENCE. SEE ALSO INDIVIDUAL DRAWING NOTES AND PROJECT SPECIFICATIONS FOR FURTHER DETAILS AND REQUIREMENTS.

2. ALL REFERENCED STANDARDS HEREIN ARE TO MOST RECENT ISSUE IN EFFECT AS OF THE DATE OF THESE DOCUMENTS, UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS OR ON THE DRAWING.

3. SUBMIT SHOP DRAWINGS, PROJECT DATA AND SAMPLES AS SPECIFIED IN PROJECT SPECIFICATIONS.

4. ABBREVIATIONS

AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
APPROX.	APPROXIMATE
B.M.	BEAM
B.O.F	BOTTOM OF FOOTING
B.O.S.	BOTTOM OF STEEL
B.S.	BOTH SIDES
BOT.	BOTTOM
BRG.	BEARING
CCJ	CRACK CONTROL JOINT
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CTR	CENTER
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DN	DOWN
DTL.	DETAIL
DWG(S)	DRAWING(S)
DWL	DOWEL
E/EXIST.	EXISTING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL / ELEV.	ELEVATION
ELEC	ELECTRIC(AL)
EQ	EQUAL
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
F.V.	FIELD VERIFY
FND.	FOUNDATION
FRMG	FRAMING
FT	FOOT
FTG	FOOTING
GA	GAGE, GAUGE
GALV	GALVANIZED
GR.	GRADE
GRTG	GRATING
H.R.	HAND RAIL
HORIZ	HORIZONTAL
IN.	INCH
INSUL	INSULATION
L	ANGLE
LBS	POUNDS
LF	LINEAR FOOT (FEET)
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MID	MIDDLE / MIDPOINT
MIN	MINIMUM, MINUTE
MISC.	MISCELLANEOUS
MTL	METAL
N	NEW
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
NA	NOT APPLICABLE
NO	NUMBER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
REF	REFERENCE
REINF.	REINFORCEMENT
REQ/REQ'D	REQUIRED
REV	REVISION
SF	SQUARE FOOT
SHT.	SHEET
SIM.	SIMILAR
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURE(AL)
T/	TOP OF
TEMP	TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT	VERTICAL
W/	WITH
W/O	WITHOUT

DESIGN CRITERIA

1. REFERENCES:

   A. ICC INTERNATIONAL BUILDING CODE, 2021 EDITION, RISK CATEGORY III IN ACCORDANCE WITH TABLE 1604.5
   B. STATE BUILDING CODE: 2023 FLORIDA BUILDING CODE, BUILDING, EIGHTH EDITION
   C. ASCE/SEI 7-22 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

2. DEAD LOADS:

DEAD LOAD	= (SELF WEIGHT)
LOAD TO RESIST UPLIFT	= (SELF WEIGHT)

3. LIVE LOADS (U.N.O.):

STAIRS, WALKWAYS, OR PLATFORMS	= 100 PSF

4. WIND LOAD:

BASIC DESIGN WIND SPEED, V	= 175 MPH
NOMINAL DESIGN WIND SPEED, Vasd	= 136 (Vult*√0.6) MPH
RISK CATEGORY	= III
WIND EXPOSURE CATEGORY	= D
DIRECTIONALITY FACTOR, Kd	= 0.85
TOPOGRAPHIC FACTOR, Kzt	= 1.0
OPEN FRAME STRUCTURE, CF	= 1.1
DESIGN WIND FORCE, F	= 64.5 (PSF) X Af

5. FLOOD LOADS: N/A FOR PLATFROM SET ABOVE DFE

STRUCTURAL ALUMINUM

1. REFERENCES:

   A. AA ALUMINUM DESIGN MANUAL
   B. AA ALUMINUM STANDARDS AND DATA
   C. ANSI/DWS D1.2 ALUMINUM WELDING CODE

2. MATERIALS:

   A. PLATES AND ROLLED SHAPES: 6061-T6
   B. STRUCTURAL BOLTS: 316 STAINLESS STEEL

3. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER CONSTRUCTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.

4. PROVIDE MIN. (2) 3/4" STAINLESS STEEL BOLTS (316), WASHERS, AND NUTS FOR ALL CONNECTIONS, UNLESS NOTED OTHERWISE. ALL SS BOLTS SHALL HAVE CORROSION INHIBITING GREASE AND SHALL BE SEPARATED FROM DISSIMILAR METALS TO PREVENT CORROSION.

5. ALL WELDING SHALL CONFORM TO AWS D1.2. SHOP DRAWINGS SHALL SHOW ALL SHOP AND ERECTION DETAILS INCLUDING CUTS, COPE CONNECTIONS, HOLES, THREADED FASTENERS, RIVETS, AND WELDS. GRIND ALL WELDS FOR SMOOTH TRANSITIONS.

6. THE APPROVAL OF THE SHOP DRAWINGS WILL BE FOR SIZE AND ARRANGEMENT OF PRINCIPAL AND AUXILIARY MEMBERS AND STRENGTH OF CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS.

7. LAYOUT AND DESIGN FOR GUARDRAIL, HANDRAIL AND THEIR COMPONENTS SHALL ADHERE TO THE APPLICABLE BUILDING CODES.

8. BURNING OF HOLES IN ALUMINUM IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

9. ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH BITUMINOUS PAINT.

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DATE: 12/05/2025

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

GENERAL NOTES

PROJ:	200-08498-24002
DESN:	AHD
DRWN:	KAC
CHKD:	TJM

S-001

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2/11/2026 4:37:57 PM Autodesk Docs://200-08498-24002 LIFT STATION REHAB PH 1/S-LSREHAB-08498-24002v2023.rvt

Bar measures 1 inch, otherwise drawing is not to scale

1.0 - GENERAL

1.01 THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATION, DIMENSIONS, AND DETAILS OF OPENINGS, SLEEVES, EMBEDMENTS, INSERTS, PADS, CURBS, DEPRESSIONS, ANCHOR BOLTS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

1.02 THE CONTRACTOR IS RESPONSIBLE FOR CHECKING, COORDINATING AND VERIFYING ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY DISCREPANCY TO THE ARCHITECT AND ENGINEER AS A REQUEST FOR INFORMATION (RFI) BEFORE PROCEEDING WITH WORK.

1.03 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IN THE FIELD THE EXISTENCE AND LOCATION OF OVERHEAD, BURIED AND/OR EMBEDDED UTILITIES, AND DETERMINING LOCATIONS OF ALL EMBEDDED MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS AFFECTED BY THE WORK OF THIS CONTRACT.

1.04 ALL WORK IS TO CONFORM WITH THE FOLLOWING CODES AND STANDARDS:

(A) FLORIDA BUILDING CODE (FBC 2023)
(B) INTERNATIONAL BUILDING CODE (IBC 2021 WITH AMENDMENTS)
(C) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" - AMERICAN CONCRETE INSTITUTE (ACI 318)
(D) "MANUAL OF STEEL CONSTRUCTION" - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360)
(E) "STRUCTURAL WELDING CODE - STEEL" - AMERICAN WELDING SOCIETY (AWS D1.1)
(F) "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" – THE MASONRY SOCIETY (TMS 402)
(G) "SEISMIC PROVISION FOR STRUCTURAL STEEL BUILDINGS" -AMERICAN INSTITUTE OF STEEL CONSTRUCTION, (AISC 341)
(H) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" - AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7-22)
FOR ADDITIONAL CODES AND STANDARDS REFER TO SPECIFICATIONS.

1.05 THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF UNFORESEEN CONDITIONS THAT MAY BE UNCOVERED DURING DEMOLITION AND CONSTRUCTION AS A REQUEST FOR INFORMATION (RFI) BEFORE PROCEEDING WITH WORK.

1.06 TYPICAL DETAILS AND NOTES SHOWN ON STRUCTURAL DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE STRUCTURAL WORK EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE BY CONTRACT DOCUMENTS. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE SHOWN FOR LIKE CONDITIONS AS DETERMINED BY THE ENGINEER. CENTER ALL FOOTINGS AND PIERS UNDER COLUMNS AND WALLS ABOVE UNLESS SPECIFICALLY DIMENSIONED OTHERWISE.

1.07 IN ACCORDANCE WITH SPECIFICATION SECTION 01 45 23, TESTING AND INSPECTION OF STRUCTURAL WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, THE COSTS FOR TESTING AND INSPECTIONS WILL BE PAID BY THE CONTRACTOR. PROVIDE TEST RESULTS TO THE ENGINEER IN A TIMELY MANNER.

1.08 THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION ONLY. THE CONTRACTOR SHALL DESIGN AND PROVIDE ALL REQUIRED SHORING AND TEMPORARY BRACING TO RESIST FORCES ON THE STRUCTURE THROUGHOUT THE CONSTRUCTION PERIOD.

1.09 ASSUMED FUTURE CONSTRUCTION: VERTICAL: NONE, HORIZONTAL: NONE

2.0 - DESIGN LOADS:

2.01 GENERAL DESIGN REQUIREMENTS_____(FBC 2023, SECTION 1604)
(A) RISK CATEGORY_____RISK CAT. III (FBC 2023, TABLE 1604.5)

2.02 DEAD LOADS_____(FBC 2023, SECTION 1606)

2.03 LIVE LOADS_____(FBC 2023, SECTION 1607)

PLATFORM POST REACTION TABLE (SERVICE LEVEL)					
LOAD CASE	VERTICAL (KIPS)	HORIZONTAL X (KIPS)	HORIZONTAL Z (KIPS)	MOMENT X (KIP-FT)	MOMENT Z (KIP-FT)
DEAD LOAD (DL)	0.32	--	--	--	--
LIVE LOAD (LL)	1.5	--	--	--	--
WIND X LOAD (WX)	--	0.7	--	--	1.4
WIND Z LOAD (WZ)	--	--	1.0	1.8	--

2.04 FLOOD LOADS_____(FBC 2023, SECTION 1609)
(A) FLOOD DESIGN CLASS_____III (ASCE 24)

ASCE 7-22 SUPPLEMENT 2 FLOOD LOADS						
LIFT STATION	PROPOSED ELEVATION AT BOTTOM OF LOWEST HORIZONTAL MEMBER IN FT (NAVD88)	DESIGN STILLWATER DEPTH (FT.)	BREAKING WAVE (LB.)	HYDRODYNAMIC		IMPACT (LB.)
				PER COMPONENT (LB.)	GLOBAL (LB.)	
LS14	12	13.55	9,383	7,833	16,524	4,439
LS5	12	12.45	9,383	7,833	16,524	4,439
LS17	11	11.4	9,383	7,833	16,524	4,439
LS46	10	10.35	9,383	7,833	16,524	4,439
LS20	10	9.55	4,661	3,815	8,208	3,726
LS32	9	8.7	4,661	3,815	8,208	3,726
LS54	9	8.6	4,661	3,815	8,208	3,726
LS97	8	7.75	4,661	3,815	8,208	3,726
LS88	9	7.4	4,661	3,815	8,208	3,726
LS55	8	5.85	1,750	1,371	3,080	2,917

3.0 - CAST IN PLACE CONCRETE

3.01 CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).

3.02 CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED AND PLACED IN THE PRESENCE OF A REPRESENTATIVE OF AN APPROVED TESTING AGENCY.

3.03 UNLESS NOTED OTHERWISE, CONCRETE SHALL BE NORMAL WEIGHT, CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, AND SHALL BE AS FOLLOWS:

f'c	USE	NOTES
5000 PSI	COLUMNS	CRYSTALLIZING WATERPROOFING ADMIXTURE

3.04 ALL PERMANENTLY EXPOSED VERTICAL AND HORIZONTAL CONCRETE SURFACES SHALL BE TREATED OR SEALED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

3.05 CONCRETE WORK SHALL BE COORDINATED WITH ALL METAL BUILDINGS, ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL WORK, AND ALL EQUIPMENT. THE CONTRACTOR SHALL VERIFY INSTALLATION AND LOCATIONS OF ALL EMBEDDED ITEMS INCLUDING BUT NOT LIMITED TO INSERTS, ANCHOR BOLTS, DOWELS, BLOCKOUTS, SLEEVES, EMBEDDED PIPING, AND EMBEDDED CONDUIT PRIOR TO CONCRETE PLACEMENT.

3.06 CONCRETE EXPOSED TO CHLORIDES SHALL CONTAIN A CALCIUM-NITRITE BASED CORROSION-INHIBITING ADMIXTURE PER SPECIFICATIONS REQUIREMENTS.

3.07 A MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.

3.08 PROVIDE A 3/4" CHAMFER ON ALL VERTICAL AND HORIZONTAL CORNERS EXPOSED TO VIEW UNLESS NOTED OTHERWISE.

3.09 ALL CONCRETE SHALL BE WATER CURED UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER. ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS. AT ALL LAPS. WWF SHALL BE SUPPORTED BY CHAIRS AND/OR CARRYING BARS PRIOR TO CONCRETE PLACEMENT.

3.10 NON-SHRINK, NON-METALLIC, GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 7,500 PSI (ASTM C942) AND A MINIMUM BOND STRENGTH OF 2,000 PSI AT 28-DAYS (ASTM C882). GROUT MAY BE EXTENDED WITH COARSE AGGREGATE PER THE MANUFACTURER'S RECOMMENDATIONS.

3.11 WHEN NEW CONCRETE IS CAST AGAINST EXISTING CONCRETE SURFACES, UNLESS NOTED OTHERWISE, THE EXISTING CONCRETE SHALL BE ROUGHENED TO 1/4" AMPLITUDE, THOROUGHLY CLEANED BY POWER WASHING OR OTHER MEANS, AND BE A SATURATED SURFACE DRY CONDITION IMMEDIATELY PRIOR TO PLACING CONCRETE.

3.12 CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. FLY ASH CONFORMING TO ASTM C618, TYPE F OR TYPE C, MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. COARSE AGGREGATE SHALL CONFORM TO ASTM C33 WITH A MAXIMUM SIZE OF ¾". FINE AGGREGATE SHALL BE CLEAN, DURABLE, NATURAL SAND CONFORMING TO ASTM C33.

3.13 A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE F OR G, MAY BE USED IN CONCRETE MIXES, PROVIDING THAT THE SLUMP DOES NOT EXCEED 8".

3.14 SHORING AND RESHORING SHALL CONFORM TO ACI 347-01. SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH IS AT LEAST 70 PERCENT OF DESIGN STRENGTH, AS DETERMINED BY FIELD CURE CYLINDERS. IN ADDITION, SHORING SHALL NOT BE REMOVED SOONER THAN RECOMMENDED BY ACI 347-01. FORMWORK SHALL NOT BE REMOVED IN LESS THAN TEN (10) DAYS.

4.0 - CAST IN PLACE CONCRETE REINFORCEMENT

4.01 REINFORCEMENT DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO "ACI DETAILING MANUAL" - SP-66, "CRSI MANUAL OF STANDARD PRACTICE". PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HOT-DIP GALVANIZED LEGS OR PLASTIC LEGS. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT BY FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT OPERATIONS. "WET-STICKING" OF REINFORCING IS PROHIBITED. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

4.02 STEEL REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL CONFORM TO THE FOLLOWING:

(A) BARS, TIES, AND STIRRUPS_____ASTM A615 GRADE 60 GALVANIZED REBAR
(B) WELDED WIRE FABRIC_____ASTM A185, FLAT SHEETS

4.03 REINFORCING STEEL SHALL BE UNCOATED AND DEFORMED, UNLESS NOTED OTHERWISE. TOP BARS AT EXPOSED AREAS SHALL BE EPOXY COATED ACCORDING TO ASTM A775.

4.04 MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS REQUIRED FOR FIRE PROTECTION OR NOTED OTHERWISE, SHALL BE AS FOLLOWS:

(A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:_____3"
(B) CONCRETE EXPOSED TO EARTH OR WEATHER:
  (1) NO. 6 THRU NO. 18 BARS_____2"
  (2) NO. 5 BAR, W31 OR D31 WIRE AND SMALLER_____1-1/2"
(C) SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
  (1) SLABS, WALLS, JOISTS:
    (a) NO. 14 AND NO 18 BARS_____1-1/2"
    (b) NO. 11 BARS AND SMALLER_____3/4"
  (2) BEAMS, COLUMNS:
    (a) PRIMARY REINFORCEMENT_____1-1/2"
    (b) TIES, STIRRUPS, SPIRALS_____1-1/2"

4.05 REINFORCING STEEL SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS, CORNERS, AND INTERSECTIONS UNLESS NOTED OTHERWISE. REINFORCING SHALL BE LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS IN ACCORDANCE WITH ACI 318-14, FOR CLASS "B" TENSION LAP SPLICES, UNLESS NOTED OTHERWISE.

4.06 FOR REINFORCING STEEL SPLICE LAP LENGTHS REFER TO THE TABLE PROVIDED UNLESS OTHERWISE INDICATED.

4.07 MECHANICAL SPLICES SHALL BE PERMITTED SUBJECT TO APPROVAL BY THE ENGINEER. SHOW ALL SPLICES ON SHOP DRAWINGS. MECHANICAL SPLICES SHALL DEVELOP AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NO WELDED CONNECTIONS ARE PERMITTED.

4.08 WELDED WIRE FABRIC SHALL BE LAPPED (1) SQUARE PLUS (2) INCHES WHERE REQUIRED AND SHALL BE WIRED TOGETHER AT ALL LAPS. WWF SHALL BE SUPPORTED BY CHAIRS AND/OR CARRYING BARS PRIOR TO CONCRETE PLACEMENT.

4.09 REINFORCEMENT SHALL NOT BE TACK WELDED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.

4.10 NOTIFY THE TESTING LAB AND ENGINEER A MINIMUM OF 48 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT IN ORDER TO ACCOMMODATE INSPECTION OF REINFORCEMENT AND CONCRETE TESTING. NO CONCRETE SHALL BE PLACED WITHIN 48 HOURS OF SUCH NOTIFICATION.

4.11 WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE DETAILS AS DETERMINED BY THE ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN THE MINIMUM REINFORCEMENT PERMITTED BY THE CODES

4.12 WHERE REINFORCEMENT IS REQUIRED IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTIONS APPLIES.

4.13 DOWELS SHALL MATCH BAR SIZE, NUMBER AND SPACING, UNLESS NOTED OTHERWISE.

5.0 - FOUNDATIONS

5.01 BASED ON REGIONAL TEST BORINGS, SATURATED SANDS ARE EXPECTED WITHIN THE ZONE OF EMBEDMENT DEPTH FOR THE AUGER CAST PILES. LOOSE TO VERY LOOSE SANDS SHALL BE ANTICIPATED, AS WELL AS OCCASIONAL ZONES OF DENSE TO VERY DENSE GRAVEL- TO COBBLE-SIZED SHELL FRAGMENTS OR MAN-MADE FILL. THE CONTRACTOR MAY PERFORM SITE SPECIFIC BORINGS OR TEST PITS AT THEIR OWN EXPENSE.

5.02 THE CONTRACTOR SHALL REFER TO AND ADHERE TO SECTION 31 63 16 OF THE PROJECT SPECIFICATIONS FOR ALL REQUIRED WORK REGARDING THE INSTALLATION OF AUGERED CAST-IN-PLACE GROUT PILES (ACP).

5.03 AUGER CAST PILES SHALL BE A HIGH STRENGTH GROUT PILE (5,000 PSI MIN.) THAT IS OBTAINED BY WITHDRAWING A CONTINUOUS FLIGHT HOLLOW SHAFT AUGER IN THE GROUND TO A DEPTH AS SPECIFIED. PILE CAPACITY TO BE 10 TONS. PILE SIZE AND REINFORCEMENT AS SHOWN ON THE DRAWINGS. PILE CONTRACTOR TO SUBMIT SPECIFICATIONS FOR APPROVAL PRIOR TO INSTALLATION WHICH SHALL BE OBSERVED AND CERTIFIED BY AN APPROVED TESTING LAB AND GEOTECHNICAL ENGINEER.

5.04 THE CONTRACTOR SHALL DESIGN AND PROVIDE ALL TEMPORARY EARTH SUPPORT, SHORING AND BRACING REQUIRED TO PERFORM THE WORK IN ACCORDANCE WITH OSHA, STATE AND LOCAL REQUIREMENTS.

5.05 THE CONTRACTOR SHALL DESIGN AND PROVIDE SHEETING, SHORING, BRACING, AND/OR UNDERPINNING IN ORDER TO PROTECT EXISTING UTILITIES FROM EXCESSIVE MOVEMENTS DURING THE CONSTRUCTION PERIOD, IN ACCORDANCE WITH OSHA, STATE & LOCAL REQUIREMENTS.

5.06 THE CONTRACTOR SHALL CARRY OUT CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER. DEWATER ANY AREAS REQUIRING EXCAVATION IN ADVANCE OF PERFORMING EXCAVATION.

5.07 ALL SUBGRADES TO RECEIVE FILL MATERIALS, FOUNDATIONS, SLABS OR OTHER CONSTRUCTION SHALL BE FREE OF RUNNING OR STANDING WATER PRIOR TO PLACEMENT.

5.08 SHALLOW FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF ON COMPACTED FILL BASED ON PRESUMPTIVE LOAD BEARING VALUES FROM FBC 2023 TABLE 1806.2. BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION, AS WELL AS FIELD AND LABORATORY TESTS PERFORMED BY A CERTIFIED TESTING LABORATORY, WHO'S REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. ABOVE REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS.

5.09 PILE SURVEY: AN AS-BUILT SURVEY OF PILE LOCATIONS SHALL BE PERFORMED BY A **FLORIDA** REGISTERED LAND SURVEYOR. PILES SHALL BE LOCATED ON THE AS-BUILT DRAWINGS HORIZONTALLY AND VERTICALLY FROM THE THEORETICAL PILE LOCATION. SUBMIT THE AS-BUILT DRAWINGS TO THE STRUCTURAL ENGINEER FOR APPROVAL.

5.10 PILE TESTING: **AS REQUIRED BY SPECIFICATION SECTION 31 63 16 AUGER CAST GROUT PILES** VERIFICATION THAT TEST REQUIREMENTS HAVE BEEN MET SHALL BE MADE BY AN INDEPENDENT GEOTECHNICAL CONSULTANT EMPLOYED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

6.0 - CONCRETE ACCESSORIES

6.01 PERMANENTLY EXPOSED EMBEDDED PLATES AND ANGLES SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. ACCURATELY POSITION, SUPPORT, AND SECURE EMBEDDED ITEMS AGAINST DISPLACEMENT BY FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT OPERATIONS. SECURELY ATTACH EMBEDDED ITEMS TO FORMWORK PRIOR TO START OF CONCRETE PLACEMENT. "WET-STICKING" OF EMBEDDED ITEMS IS PROHIBITED. NO LOADS OR WELDS SHALL BE PLACED ON EMBEDDED PLATES OR ANGLES FOR A MINIMUM OF 7 DAYS AFTER CASTING.

7.0 - SUBMITTALS

7.01 SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS INCLUDING:

(A) CONCRETE MIX DESIGNS
(B) CONCRETE REINFORCING
(C) EMBEDDED STEEL ITEMS
(D) AUGER CAST PILE SHOP DRAWINGS

7.02 IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO THE REVIEW AND ACCEPTANCE OF THE ENGINEER.

7.03 SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR

8.0 - POST INSTALLED CONCRETE ANCHORS AND REINFORCING DOWELS

8.01 ADHESIVE ANCHORS SHALL HAVE A CURRENT ICC-ES EVALUATION REPORT INDICATING CONFORMANCE WITH CURRENT APPLICABLE ICC-ES ACCEPTANCE CRITERIA (AC308 FOR INSTALLATION IN CONCRETE OR AC58 FOR INSTALLATION IN MASONRY). ADHESIVE SHALL BE INSTALLED IN DRY HOLES AND HAVE PERFORMANCE DATA FOR INSTALLATIONS IN WATER-SATURATED HOLES. CONTRACTOR SHALL NOTIFY THE ENGINEER-OF-RECORD PRIOR TO INSTALLING ADHESIVE ANCHORS IN WATER-SATURATED (DAMP) HOLES. ADHESIVE SHALL BE FULLY-CURED AT 70°F WITHIN 24 HOURS FROM THE TIME OF INSTALLATION. U.N.O. CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT THE TIME OF INSTALLATION PER ACI 318-14 CHAPTER 17. ADHESIVE ANCHORS AND REINFORCING DOWELS SHALL BE HILTI HIT-HY-200 ADHESIVE ANCHORING SYSTEM OR APPROVED EQUAL, UNLESS NOTED OTHERWISE.

8.02 MECHANICAL ANCHORS SHALL HAVE A CURRENT ICC-ES OR IAPMO UES EVALUATION REPORT INDICATING CONFORMANCE WITH CURRENT APPLICABLE ICC-ES ACCEPTANCE CRITERIA (AC193 FOR EXPANSION AND SCREW ANCHOR INSTALLATION IN CONCRETE, AC01 FOR EXPANSION ANCHOR INSTALLATION IN MASONRY OR AC106 FOR SCREW ANCHOR INSTALLATION IN MASONRY). MECHANICAL ANCHORS SHALL BE EXPANSION TYPE OR SCREW TYPE AS NOTED ON THE DRAWINGS. PROVIDE SPECIAL INSPECTION AS MANDATED BY THE APPLICABLE BUILDING CODE AND BUILDING OFFICIAL HAVING JURISDICTION.

8.03 EXPANSION STYLE ANCHORS SHALL BE TORQUE-CONTROLLED, WITH IMPACT SECTION TO PREVENT THREAD DAMAGE COMPLETE WITH REQUIRED NUTS AND WASHERS. PROVIDE ANCHORS WITH LENGTH IDENTIFICATION MARKINGS. EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ EXPANSION ANCHORS OR APPROVED EQUAL, UNLESS NOTED OTHERWISE.

8.04 SCREW STYLE ANCHORS SHALL BE ONE PIECE CARBON STEEL SCREW ANCHOR WITH FINISHED HEX HEAD WITH INTEGRAL WASHER, DOUBLE LEAD THREAD, CHAMFERED TIP, RATCHET TEETH ON UNDERSIDE OF HEAD. PROVIDE ANCHORS HEAD STAMPED WITH LENGTH. SCREW STYLE ANCHORS SHALL BE HILTI KWIK HUS-EZ ANCHORS OR APPROVED EQUAL, UNLESS NOTED OTHERWISE.

8.05 UNLESS OTHERWISE NOTED, PROVIDE CARBON STEEL ANCHORS, ZINC PLATED IN ACCORDANCE WITH ASTM B633, OR MECHANICALLY GALVANIZED ACCORDING TO ASTM A153. PERMANENTLY EXPOSED ANCHORS SHALL BE STAINLESS STEEL. USE 316 STAINLESS STEEL FOR SERVICING EQUIPMENT AND FOR ALUMINUM AND FIBERGLASS STRUCTURES AND ASSEMBLIES.

8.06 INSTALL ANCHORS IN STRICT CONFORMANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).

8.07 HOLES SHALL BE THOROUGHLY CLEANED AND DRY PRIOR TO INSTALLING ANCHORS.

8.08 DO NOT DAMAGE EXISTING REINFORCING. LOCATE REINFORCING WITH PROFOMETER OR OTHER MEANS PRIOR TO DRILLING CONCRETE.

8.09 ANCHORS INSTALLED OVERHEAD SHALL BE PROOF TESTED BY THE MANUFACTURER'S FIELD ENGINEER OR OTHER APPROVED AGENCY. PROOF TEST A MINIMUM OF 25% OF THE ANCHORS OR (2) TOTAL, WHICHEVER IS GREATER.

ACI 318 DEVELOPMENT LENGTH AND LAP SPLICE LENGTH			
f'_c = 5000 psi	TENSION		
BAR SIZE #	l_d	1.3 l_d	1.5 l_d
3	13	17	20
4	17	23	26
5	22	28	32
6	26	34	39
7	38	49	56
8	43	56	64
9	48	63	72
10	54	69	80
11	59	76	88

NOTES:
1. ALL VALUES ARE IN INCHES.
2. TABLE IS APPLICABLE FOR GRADE 60 BARS.
3. DEVELOPMENT LENGTHS (l_d) FOR HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW SHALL BE MULTIPLIED BY 1.3.
4. DEVELOPMENT LENGTHS (l_d) FOR EPOXY COATED OR ZINC AND EPOXY DUAL COATED REINFORCEMENT WITH CLEAR COVER LESS THAN 3 d_b OR CLEAR SPACING LESS THAN 6 d_b SHALL BE MULTIPLIED BY 1.5.
5. MULTIPLY CORRESPONDING DEVELOPMENT LENGTH BY 1.3 TO DETERMINE CLASS B TENSION LAP SPLICE LENGTHS.
6. MULTIPLY CORRESPONDING DEVELOPMENT LENGTH BY 1.333 FOR LIGHT WEIGHT CONCRETE.

MINIMUM EMBEDMENT LENGTHS l_{dh} FOR STANDARD HOOKS			
	NORMALWEIGHT CONCRETE		
BAR SIZE #	3000	4000	5000
3	6	6	6
4	8	7	6
5	10	9	8
6	12	10	9
7	14	12	11
8	16	14	12
9	18	15	14
10	20	17	15
11	22	19	17

NOTES:
1. ALL VALUES ARE IN INCHES.
2. TABLE IS APPLICABLE FOR GRADE 60 BARS.
3. SIDE COVER GREATER THAN OR EQUAL TO 2.5 in.
4. END COVER (90 DEGREE HOOKS) GREATER THAN OR EQUAL TO 2 in.
5. MULTIPLY BY 1.2 FOR EPOXY COATED OR ZINC AND EPOXY DUAL COATED REINFORCEMENT.
6. MULTIPLY BY 1.333 FOR LIGHTWEIGHT CONCRETE.
7. WHEN FULL l_{dh} CANNOT BE PROVIDED, USE SMALLER DIAMETER BAR FOR WHICH l_{dh} CAN BE PROVIDED.

Project:
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

THE CITY OF SANIBEL

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Consultants:

Revisions:

No.	Date	Description

Seal:

Issued For:
BIDS

Scale:

Date: 02/10/2026
Draw By: AA
Reviewed By: CK
Approved By: RJ

W&S Project No.: ENG25-1184
W&S File No.: XXX

Drawing Title:
GENERAL NOTES

Sheet Number:
S002

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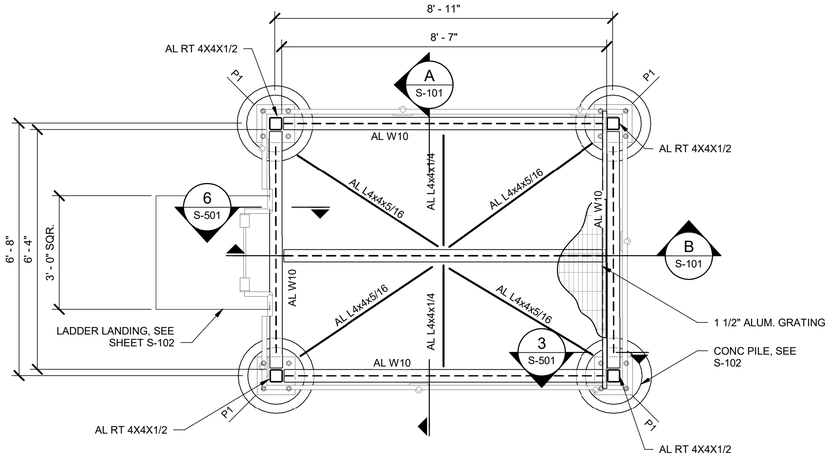


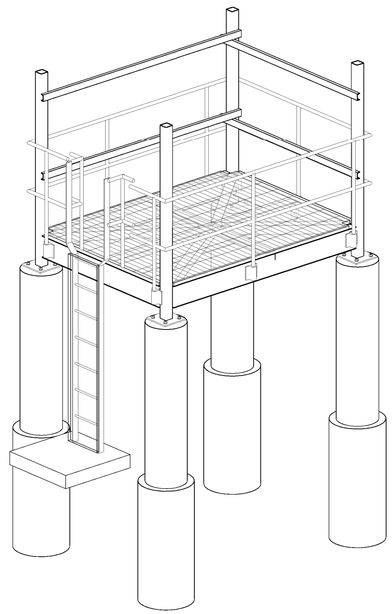
PLATFORM PLAN

SCALE: 1/2" = 1'-0"

PLAN NOTES:

1. SEE SHEETS S-001 FOR GENERAL NOTES.
2. ALL METALWORK INCLUDING LADDER, PLATFORM AND RAILINGS IS TO BE PROVIDED BY OTHERS. CONTRACTOR IS RESPONSIBLE FOR PICKING UP MATERIAL FROM STORAGE SITE ON SANIBEL AND INSTALLING PER PLANS. DETAILS PROVIDED BELOW ARE FOR INFORMATIONAL PURPOSES ONLY.

PLATFORMS ELEVATIONS					
LIFT STATION #	MIN FINISH GRADE ELEV.	MIN. T/FOUNDATION (DFE+6") ELEV.	T/PLATFORM	T/POST	LADDER HEIGHT
LS 5	4.1	11.5	13	19	10
LS 14	3	11.5	13	19	11
LS 17	3.7	10.5	12	18	9
LS 20	4.1	9.5	11	17	8
LS 32	3.5	8.5	10	16	8
LS 46	3.3	9.5	11	17	9
LS 54	3.6	8.5	10	16	7
LS 55	4.9	7.5	9	15	5
LS 88	4.8	8.5	10	16	6
LS 97	2.9	7.5	9	15	7

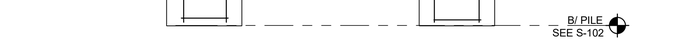


PLATFORM W/ LADDER - 3D VIEW

SCALE:

B S-101 SECTION

SCALE: 1/2" = 1'-0"



A S-101 SECTION W/ LADDER

SCALE: 1/2" = 1'-0"

2' 0' 2' 4'

SCALE: 1/2" = 1'-0"

Bar measures 1 inch, otherwise drawing is not to scale

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TITUS J MADDELA, P.E.
LICENSE #82624
Tetra Tech Inc.
4910 Bowman Blvd, Ste 245
Louisville, KY 40222
Engineering Business No. 2429

DATE: 12/05/2025

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

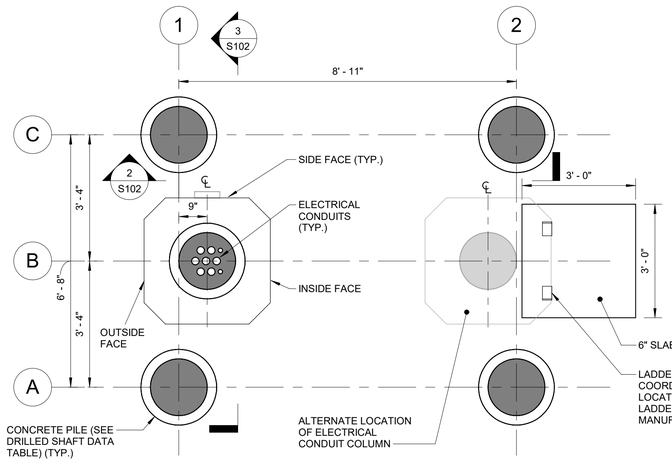
PLATFORM ON PIERS W/ LADDER

PROJ:	200-08498-24002
DESN:	AHD
DRWN:	KAC
CHKD:	TJM

S-101

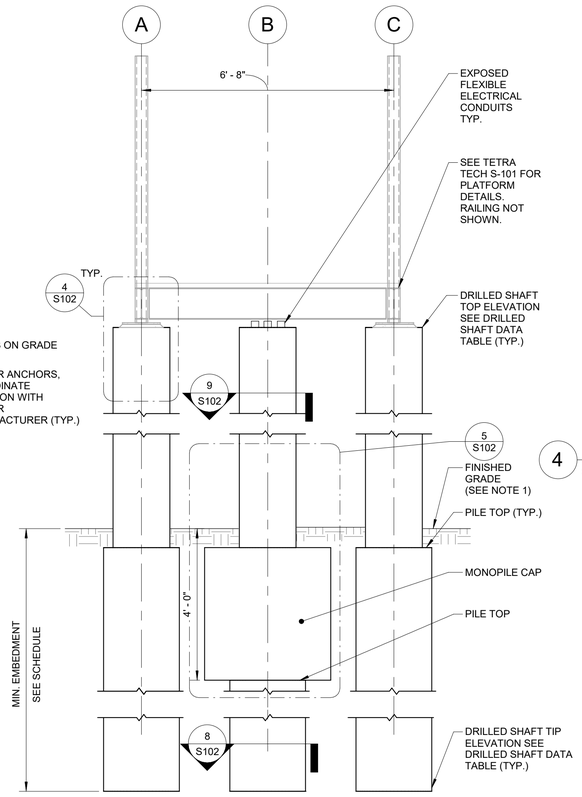
Copyright: Tetra Tech

2/11/2026 4:37:58 PM Autodesk Docs://200-08498-24002 LIFT STATION REHAB PH 1/S-LSREHAB-08498-24002v2023.rvt



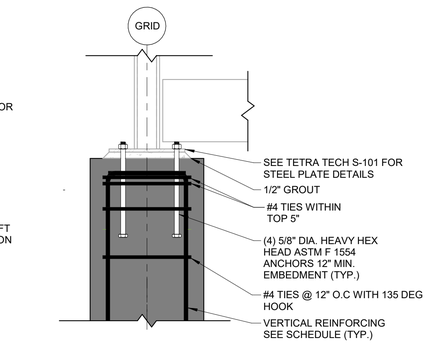
1 TYPICAL PILE LAYOUT PLAN

SCALE: 1/2" = 1'-0"



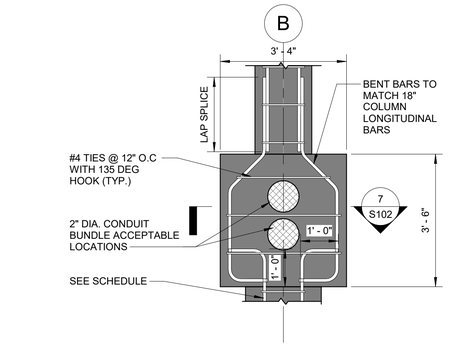
3 ELEVATION VIEW PERPENDICULAR TO WIDTH

SCALE: 1/2" = 1'-0"



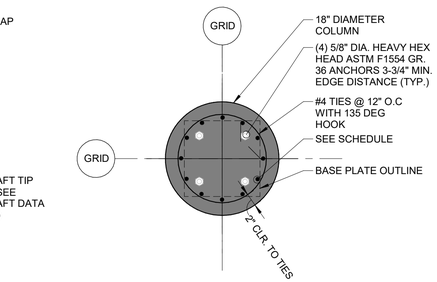
4 PLATFORM ANCHOR DETAIL

SCALE: 1" = 1'-0"



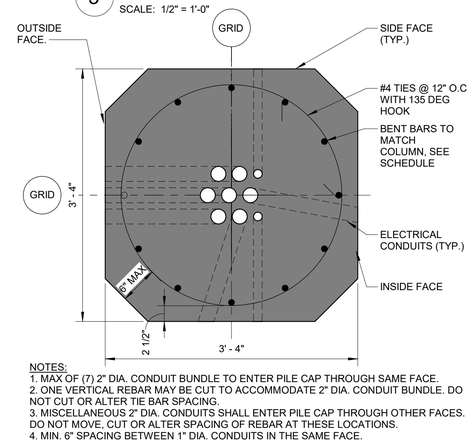
5 MONOPILE CAP SECTION

SCALE: 1/2" = 1'-0"



6 18" COLUMN DETAIL

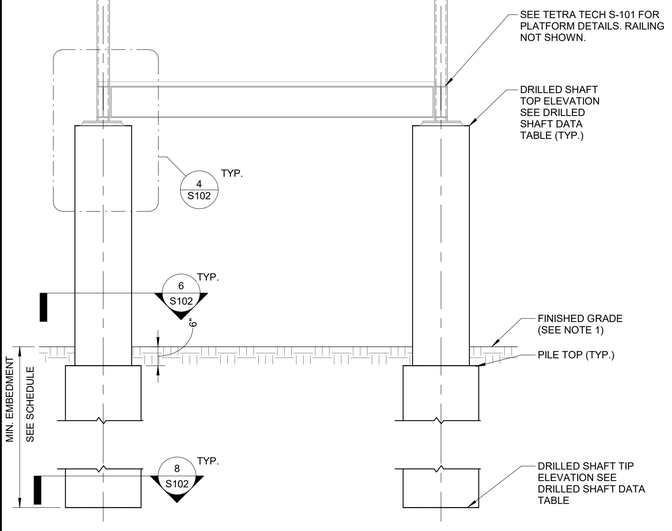
SCALE: 1" = 1'-0"



NOTES:
1. MAX OF (7) 2" DIA. CONDUIT BUNDLE TO ENTER PILE CAP THROUGH SAME FACE.
2. ONE VERTICAL REBAR MAY BE CUT TO ACCOMMODATE 2" DIA. CONDUIT BUNDLE. DO NOT CUT OR ALTER TIE BAR SPACING.
3. MISCELLANEOUS 2" DIA. CONDUITS SHALL ENTER PILE CAP THROUGH OTHER FACES. DO NOT MOVE, CUT OR ALTER SPACING OF REBAR AT THESE LOCATIONS.
4. MIN. 6" SPACING BETWEEN 1" DIA. CONDUITS IN THE SAME FACE.

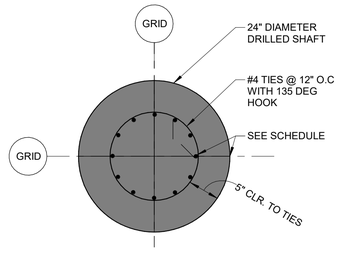
7 MONOPILE CAP DETAIL

SCALE: 1" = 1'-0"



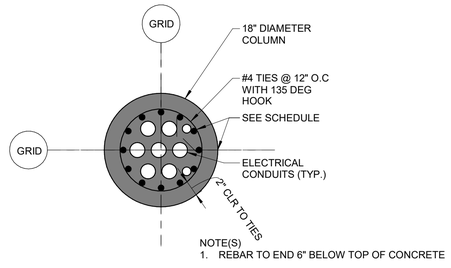
2 ELEVATION VIEW PERPENDICULAR TO LENGTH

SCALE: 1/2" = 1'-0"



8 24" AUGER CAST PILE DETAIL

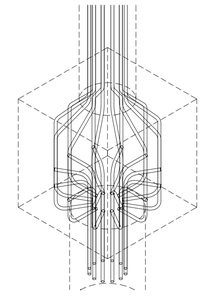
SCALE: 1" = 1'-0"



NOTE(S)
1. REBAR TO END 6" BELOW TOP OF CONCRETE

9 COLUMN DETAIL - ELECTRICAL CONDUITS

SCALE: 1" = 1'-0"



NOTE:
CHAMFERED CORNERS NOT SHOWN

10 MONOPILE CAP REBAR ISOMETRIC

SCALE:

AUGER CAST PILE DATA TABLE								
LIFT STATION	PLATFORM PILES			ELECTRICAL CONDUIT PILES			TOP OF DRILLED SHAFT ELEV. (FT.)	MIN FINISH GRADE ELEV. (FT.)
	SHAFT SIZE (IN.)	LONGITUDINAL REBAR	MIN EMBEDMENT (FT.)	SHAFT SIZE (IN.)	LONGITUDINAL REBAR	MIN EMBEDMENT (FT.)		
LS 14	24/18	(12) #7	17	24/18	(12) #7	17	11.5	3.0
LS 5	24/18	(12) #7	17	24/18	(12) #7	17	11.5	4.1
LS 17	24/18	(12) #7	17	24/18	(12) #7	17	10.5	3.7
LS 46	24/18	(12) #7	17	24/18	(12) #7	17	9.5	3.3
LS 20	24/18	(10) #5	13	24/18	(10) #5	13	9.5	4.1
LS 32	24/18	(10) #5	13	24/18	(10) #5	13	8.5	3.5
LS 54	24/18	(10) #5	13	24/18	(10) #5	13	8.5	3.6
LS 97	24/18	(10) #5	13	24/18	(10) #5	13	7.5	2.9
LS 88	24/18	(10) #5	13	24/18	(10) #5	13	8.5	4.8
LS 55	24/18	(6) #5	11	24/18	(6) #5	11	7.5	4.9

NOTE(S):

1. REFER TO CIVIL DRAWING SHEET S101 FOR LIFT STATIONS MIN FINISH GRADE ELEVATION, T/ PLATFORM, T/ POST.
2. TOP OF DRILLED SHAFT ELEV. AND MIN FINISH GRADE ELEV ARE REPRODUCED IN DRILLED SHAFT DATA TABLE FOR CONVENIENCE.

Project:
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

THE CITY OF SANIBEL

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Consultants:

Revisions:

No.	Date	Description

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Issued For:
BIDS

Scale:	
Date:	02/10/2026
Draw By:	AA
Reviewed By:	CK
Approved By:	RJ
W&S Project No.:	ENG25-1184
W&S File No.:	XXX

Drawing Title:
FOUNDATION PLAN AND DETAILS

Sheet Number:
S102

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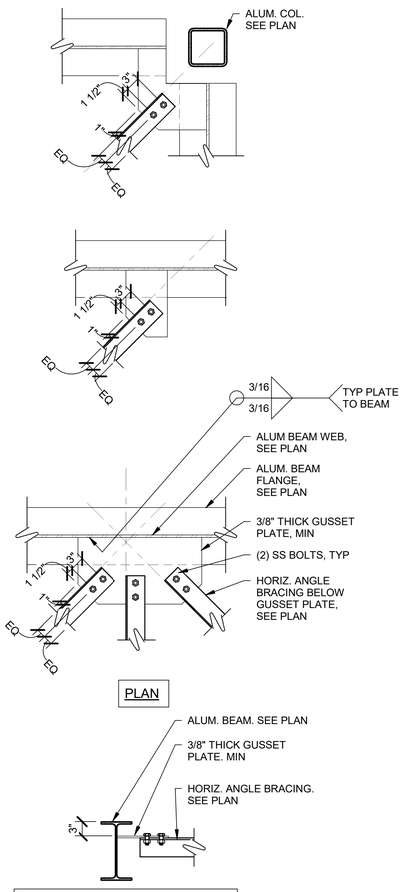
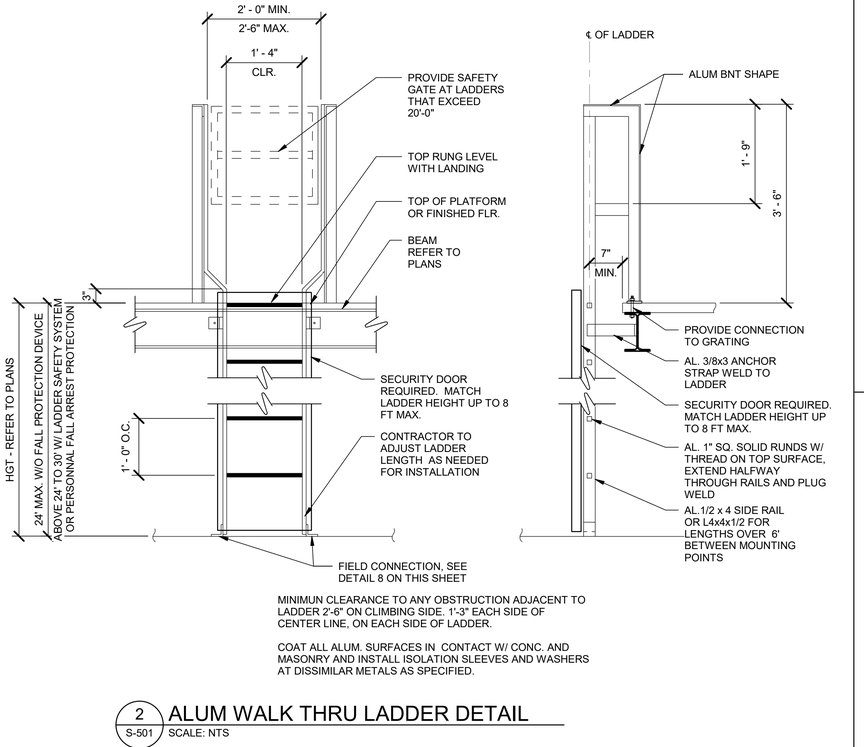


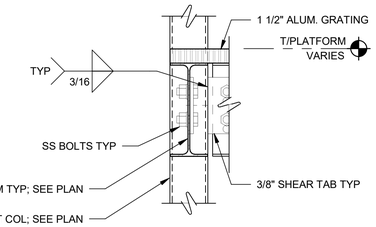
1 TYP HORIZONTAL BRACE CONNECTION
1 / S-501 SCALE: NTS



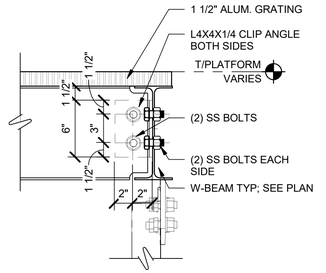
MINIMUN CLEARANCE TO ANY OBSTRUCTION ADJACENT TO LADDER 2'-6" ON CLIMBING SIDE. 1'-3" EACH SIDE OF CENTER LINE, ON EACH SIDE OF LADDER.

COAT ALL ALUM. SURFACES IN CONTACT W/ CONC. AND MASONRY AND INSTALL ISOLATION SLEEVES AND WASHERS AT DISSIMILAR METALS AS SPECIFIED.

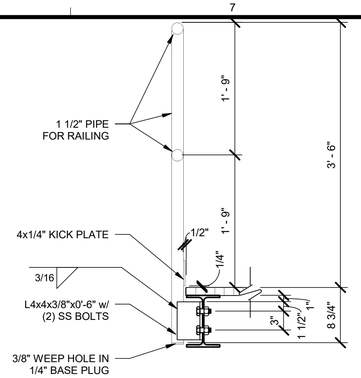
2 ALUM WALK THRU LADDER DETAIL
2 / S-501 SCALE: NTS



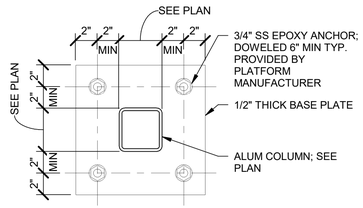
3 TYP BEAM TO COL CONN
3 / S-501 SCALE: NTS



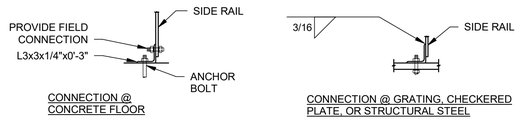
6 TYP. BEAM TO BEAM CONN.
6 / S-501 SCALE: NTS



4 TYP. STEEL GUARDRAIL DETAIL
4 / S-501 SCALE: NTS



7 TYP. BASEPLATE
7 / S-501 SCALE: NTS



LADDER BRACKETS ARE BY LADDER SUPPLIER, PROVIDED WITH HOLES FOR CONNECTIONS. ADJUSTABLE BRACKETS SHALL BE PROVIDED WHERE REQUIRED TO COMPENSATE FOR IRREGULAR OR OFFSET WALL SURFACES.

8 TYPICAL LADDER CONN. DETAILS
8 / S-501 SCALE: NTS

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DATE: 12/05/2025

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

STANDARD DETAILS

PROJ:	200-08498-24002
DESN:	AHD
DRWN:	KAC
CHKD:	TJM

S-501

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Bar measures 1 inch, otherwise drawing is not to scale

GENERAL AND ANNOTATIVE SYMBOLS

SYMBOL	DESCRIPTION
P-ABC-123456X	CALLOUT - CONDUIT PREFIX: P = POWER C = CONTROLS S = SIGNAL X = SUFFIX (VARIABLE) M = MEDIUM VOLTAGE
PMP-040101	CALLOUT - EQUIPMENT
LI 101	CALLOUT - INSTRUMENT
#	CONSTRUCTION NOTE
#	KEYED NOTE REFERENCE
A SHT #	OFF-SHEET REFERENCE FOR WIRING AND CIRCUITS
	LIGHT LINE INDICATED EXISTING ELECTRICAL OR EXISTING EQUIPMENT. LIGHT LINE MAY ALSO BE USED FOR DETAIL DRAWING CLARITY.
	HEAVY LINE INDICATES NEW WORK TO BE PROVIDED
	HATCH INDICATES EXISTING WORK TO BE REMOVED
	LINE-BREAK
	CONDUCTORS CONNECTED
	CONDUCTORS NOT CONNECTED
	CONTINUATION

CONDUIT SYMBOLS

SYMBOL	DESCRIPTION
	EXPOSED CONDUIT
	BRANCH CIRCUIT, CONCEALED ABOVE CEILING OR IN WALL WHERE POSSIBLE. WHERE EXPOSED ROUTE PARALLEL AND PERPENDICULAR TO STRUCTURE.
	CONDUIT IN SLAB OR BELOW GRADE
UE	UNDEGROUND ELECTRICAL PRIMARY CONDUCTOR
UG	DIRECT BURIED CABLE
DB	UNDERGROUND CONCRETE ENCASED DUCT BANK
E	DIRECT BURIED CONDUIT
OE	OVERHEAD NON-RIGID LINE
	CONDUIT WITH CONDUIT SEAL FITTING
	NON-RIGID CONDUIT
	CONDUIT TO CABLE GLAND SEAL
	CONDUIT BENDS TOWARD OBSERVER
	CONDUIT BENDS AWAY FROM OBSERVER
	CONDUIT STUB AND CAPPED
P1:X,Y,Z	BRANCH CIRCUIT HOME RUN. 3/4"C(#12 AWG MIN) U.N.O. P1 - PANELBOARD X,Y,Z - CIRCUIT NUMBERS
	BELOW-GRADE PENETRATION CONDUIT SEAL
WALL	CONDUIT FIRE-RATED WALL PENETRATION

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
XX	CEILING MOUNTED EXIT SIGN. ARROW IF INDICATED DENOTES ARROWS ON EXIT FACE PLACE. HATCH INDICATES NUMBER OF EXIT FACES. XX - DENOTES TYPE. SEE FIXTURE SCHEDULE
	WALL MOUNTED EXIT SIGN.
	EMERGENCY UNIT LIGHT FIXTURE WITH 2 HEADS
P1:10 XX a	CEILING LIGHT FIXTURE. SIZED PER PHYSICAL DIMENSIONS OF FIXTURE XX - DENOTES TYPE. SEE FIXTURE SCHEDULE a - DENOTES CONTROLLED BY SWITCH IF INDICATED P1:10 - DENOTES SOURCE PANEL AND BRANCH CIRCUIT NUMBER NOTE: FIXTURE MODIFIERS APPLICABLE TO ALL FIXTURE TYPES.
	CEILING LIGHT FIXTURE HATCH DENOTES EQUIPPED WITH EMERGENCY BATTERY BACKUP UNIT
	WALL MOUNTED LIGHT FIXTURE
	RECESSED DOWN LIGHT FIXTURE
	HIGH MAST LIGHT FIXTURE
	POLE MOUNTED LIGHT FIXTURE
	POLE MOUNTED LIGHT FIXTURE WITH NUMBER OF ARMS OR HEADS AS SHOWN
	HANDRAIL MOUNTED LIGHT FIXTURE

POWER PLAN SYMBOLS

SYMBOL	DESCRIPTION
3P/30A 4X X	DISCONNECT SWITCH (SIZE MAY VARY AND MAY DENOTE ACTUAL EQUIPMENT DIMENSIONS) X - DENOTES TYPE F - FUSED NF - NON-FUSED (OR LEFT BLANK) CB - ENCLOSED CIRCUIT BREAKER 3P - NUMBER OF POLES 30A - AMP RATING 4X - NEMA RATING 3R - PAINTED STEEL 4X - 316 STAINLESS STEEL N1 - INTERIOR RATED N12 - INTERIOR WITH DUST GASKET 4XP - NON-METALLIC NEMA 4X N7 - EXPLOSION PROOF
1X	COMBINATION TYPE STARTER AND DISCONNECT X - NEMA STARTER SIZE M - MAGNETIC TYPE E - ELECTRONIC TYPE
	FULL VOLTAGE NON-REVERSING (FVNR) STARTER
100AF / 80AT	TOP NUMBER DENOTES FRAME SIZE BOTTOM NUMBER DENOTES TRIP OR FUSE SIZE
J	JUNCTION BOX - GENERAL-PURPOSE
J HxWxD	EXTERIOR JUNCTION BOX XX DENOTES NEMA RATING HxWxD DENOTES DIMENSIONS
PB	PULL-BOX
HH	HAND HOLE
MH	MAN HOLE
TB	TERMINAL BOX
M	UTILITY METER
T	DRY-TYP TRANSFORMER (U.N.O). SIZE MAY VARY ON PLAN SHEETS TO DENOTE ACTUAL TRANSFORMER DIMENSIONS
	ELECTRICAL EQUIPMENT AS NOTED ON PLANS. SURFACE MOUNTED.
	ELECTRICAL EQUIPMENT AS NOTED ON PLANS. FLUSH OR RECESSED MOUNTED.
X X	MOTOR OR MOTOR CONNECTION POINT X - DENOTES HP
E	PROVIDE ELECTRICAL CONNECTION TO EQUIPMENT FURNISHED BY OTHERS
	CONTROL SWITCH OR STATION FOR MOTORS
SPD C3	SURGE PROTECTION DEVICE C3 = SERVICE ENTRANCE DEVICE (TYPE 1) B3 = DISTRIBUTION DEVICE (TYPE 2) A3 = POINT OF USE DEVICE (TYPE 3)
ST	SHUNT-TRIP BUTTON. FLUSH MOUNTED NEMA 4X FOR EXTERIOR LOCATIONS
VFD	VARIABLE FREQUENCY DRIVE
RVSS	REDUCED VOLTAGE SOFT STARTER
ATS	AUTOMATIC TRANSFER SWITCH
	GENERATOR
T	THERMOSTAT
LC	LIGHTING CONTACTOR
	UTILITY POLE
	FLOAT SWITCH

RECEPTACLE SYMBOLS

SYMBOL	DESCRIPTION
XX	5-20R DUPLEX RECEPTACLE, 20 AMP, 5-20R, 125V - 18" AFF INTERIOR, 48" AFG EXTERIOR, U.N.O. XX - MOUNTING HEIGHT GFCI - GROUND FAULT PROTECTION WP - WEATHERPROOF COVER WPU - WEATHERPROOF WHILE IN USE COVER IG - ISOLATED GROUND NOTE: RECEPTACLE MODIFIERS APPLICABLE TO ALL RECEPTACLE TYPES.
	FLOOR MOUNT DUPLEX RECEPTACLE
	QUADPLEX RECEPTACLE
	CEILING MOUNT DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - POWERED FROM UPS
	HALF SWITCHED DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - MOUNT 6" ABOVE COUNTER
	RECEPTACLE - DUPLEX OUTDOOR WP/GFCI w/ IN-USE COVER
T	RECEPTACLE - SPECIAL (AS INDICATED ON PLANS) T - TWIST LOCK
	RECEPTACLE - WELDING
	RECEPTACLE - PLUG STRIP
FB	FURNITURE SYSTEM CONNECTION BOX
P:X-Y	NUMBERS ADJACENT TO RECEPTACLE INDICATED SOURCE PANEL ("P:X") AND CIRCUIT NUMBER ("Y") FEEDING BRANCH CIRCUIT.

SWITCH SYMBOLS

SYMBOL	DESCRIPTION
a X	120/277V, SINGLE TOGGLE, LIGHT SWITCH. 48" AFF X - DENOTES TYPE 3 - 3 WAY 4 - 4 WAY D - DIMMING (1500 WATT U.N.O.) OS - OCCUPANCY SENSOR WITH MANUAL OVERRIDE OSD - OCCUPANCY SENSOR WITH DIMMING AND MANUAL OVERRIDE M - MOTOR RATED LOCKABLE TOGGLE SWITCH LV - LOW VOLTAGE DIGITAL LV2 - LOW VOLTAGE DIGITAL WITH DIMMING WP - WEATHERPROOF COVER HOA - HAND-OFF-AUTO a - DENOTES FIXTURES CONTROLLED
M	VACANCY/OCCUPANCY SENSOR, CEILING MOUNTED
PC	PHOTOCELL (MOUNT EXTERIOR OF BUILDING FACING NORTH U.N.O)
LC	LIGHTING CONTACTOR.

GROUNDING SYMBOLS

SYMBOL	DESCRIPTION
G	GROUND CONDUCTOR. BARE COPPER GROUND COUNTERPOISE. (4/0 TINNED COPPER)
G	GROUND CONDUCTOR BURIED 30" BELOW GRADE
G	GROUND CONDUCTOR WITH EXOTHERMIC CONNECTION. PIGTAIL 18" ABOVE FINISHED FLOOR.
G	GROUND CONDUCTOR WITH MECHANICAL CONNECTION.
	GROUND BAR - SEE PLANS AND SPECS FOR DIMENSIONS AND REQUIREMENTS
	GROUND ROD WITH INSPECTION WELL
	GROUND ROD (3/4"Ø X 10' COPPER-CLAD U.N.O)
	CONCRETE ENCASED ELECTRODE OR INDICATES BONDING TO CONCRETE REBAR

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

ELECTRICAL LEGEND

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-001

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Bar Measures 1 inch

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LIGHTNING PROTECTION SYMBOLS

SYMBOL	DESCRIPTION
F	AIR TERMINAL - ROOF MOUNTED (3/8"Ø X 12" U.N.O) F = ADHESIVE SECURED
	AIR TERMINAL - MOUNTED TO SIDE OF EQUIPMENT/PARAPET
	AIR TERMINAL - MULTIPOINT
H	AIR TERMINAL - ELEVATED HEIGHT WITH DIAGONAL BRACING H = OVERALL HEIGHT ABOVE MOUNTING SURFACE
	CROSS CONDUCTOR
CI	CLASS I LIGHTNING PROTECTION CABLE
CII	CLASS II LIGHTNING PROTECTION CABLE
	THROUGH-ROOF PENETRATION SEAL
	CONDUCTOR BONDING CONNECTION
	EQUIPMENT/BUILDING BONDING CONNECTION
DN	DOWN-LEAD CONDUCTOR (TO EARTH ELECTRODE SYSTEM) PROVIDE BI-METALLIC CONNECTION IN JUNCTION BOX BETWEEN LIGHTNING PROTECTION CABLE AND GROUNDING CABLE

ACCESS CONTROL / SECURITY SYMBOLS

SYMBOL	DESCRIPTION
DC	DOOR CONTACT
RX	REQUEST TO EXIT
CR	CARD READER
CRP	CARD READER WITH PINPAD
DL	DOOR LATCH - ELECTRIC STRIKE
IDP	INTRUSION DETECTION PANEL. PROVIDE 120VAC BRANCH CIRCUIT
ACP	ACCESS CONTROL PANEL. PROVIDE 120VAC BRANCH CIRCUIT
HS	INTERCOM HANDSET
	INTERCOM SPEAKER

FIRE PROTECTION SYMBOLS

SYMBOL	DESCRIPTION
FD XX	FLAME DETECTOR XX-DENOTES TYPE UV/IR - COMBINATION UV - ULTRAVIOLET IR - INFRARED VR - VISIBLE RADIATION
HD XX	HEAT DETECTOR XX-DENOTES TYPE F - FIXED R - RATE OF RISE
GD XX	GAS DETECTOR XX- GAS TYPE
SD XX	SMOKE DETECTOR XX-DENOTES TYPE ID - IN DUCT I - IONIZATION P - PHOTO ELECTRIC IP - DUAL RATED R - RETURN S - SUPPLY
F	FIRE ALARM SYSTEM CONDUIT AND WIRING
F	FIRE ALARM STROBE LIGHT WALL MOUNTED
H	FIRE ALARM HORN ONLY
F CD	FIRE ALARM HORN/STROBE LIGHT COMBINATION WALL MOUNTED CD = CANDELA RATING
SP	MASS NOTIFICATION SPEAKER/STROBE LIGHT COMBINATION WALL MOUNTED
F	FIRE ALARM SPEAKER/STROBE LIGHT COMBINATION CEILING MOUNT
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
GAP	GRAPHIC ANNUNCIATOR
ANN	REMOTE ANNUCIATOR PANEL
RL	OUTPUT RELAY
VS	VALVE SUPERVISOR SWITCH
PS	PRESSURE SWITCH
DH	DOOR HOLDER
F	FIRE ALARM MANUAL PULL STATION
R	FIRE ALARM RELAY
FS	FIRE ALARM FLOW SWITCH
FE	FIRE EXTINGUISHER
TS	FIRE ALARM TAMPER SWITCH

TELECOMMUNICATIONS SYMBOLS

SYMBOL	DESCRIPTION
	TELECOMMUNICATIONS JACK. PROVIDE CAT-6 IN 1" CONDUIT TO SOURCE AS INDICATED ON PLANS. IN AREAS WITH DROP CEILING PROVIDE 1" CONDUIT TO ABOVE CEILING AND THEN UTILIZE CABLE TRAY OR "J" HOOKS TO ROUTE CAT-6 TO SOURCE
	COMBINATION TELECOMMUNICATIONS JACK. PROVIDE TWO CAT-6
	CEILING MOUNTED
WAP	WIRELESS ACCESS POINT
	FLOOR MOUTED
TV	TELEVISION OUTLET, HEIGHT AS NOTED ON PLANS. PROVIDE 1" CONDUIT TO SOURCE SHOWN
AV	A/V BOX, PROVIDE 2" CONDUIT TO SOURCE SHOWN
	BASKET TYPE CABLE TRAY
	LADDER TYPE CABLE TRAY

SINGLE-LINE DIAGRAM SYMBOLS

SYMBOL	DESCRIPTION
R XX K YY	TRANSFORMER XX - DENOTES SIZE IN KVA YY - DENOTES VOLTAGE AND PHASE R - DENOTE IMPEDANCE (PROVIDE STANDARD IF BLANK) K - DENOTES K-FACTOR
	DELTA CONFIGURED WINDING
	WYE CONFIGURED WINDING
	GROUND ELECTRODE (3/4"Ø X 10') COPPER-CLAD U.N.O.
SPD	SURGE PROTECTION DEVICE
	DISCONNECT SWITCH
HTR 75KW	HEATER w/ SIZE INDICATED
	SOLENOID VALVE
	TRANSFER SWITCH
	LOW VOLTAGE DISCONNECT SWITCH
	HIGH VOLTAGE FUSE (ABOVE 600 V)
XX:A	LOW VOLTAGE FUSE XX DENOTES AMP RATING
	CIRCUIT BREAKER
	DRAW OUT BREAKER
X	MOTOR WITH ASSUMED HORSEPOWER. ACTUAL HORSEPOWER MAY DIFFER - INCREASE AS REQUIRED
ST	SHUNT TRIP
	UTILITY CONNECTION
CT M	CT ENCLOSURE WITH SEPARATE METER
G XX:KW YY:V	GENERATOR XX: DENOTES SIZE IN KW YY: DENOTES VOLTAGE AND PHASE
	FLOAT SWITCH
3 (3)	CURRENT TRANSFORMER, (3) INDICATES QUANTITY
2	M-MAGNETIC MOTOR STARTER, C-GENERAL USE CONTACTOR (NUMBER INDICATED NEMA SIZE)
	MOTOR OVERLOAD DEVICE
	CAPACITOR, 3 PHASE, SIZE AS INDICATED
	MAGNETIC STARTER (BACKGROUND DRAWINGS ONLY)
	COMBINATION STARTER FUSED UNLESS NOTED (CIRCUIT BREAKER)
M	UTILITY METER
I	INTERLOCK FUNCTION
K	MECHANICAL KEYED INTERLOCK
	INTERLOCK ASSOCIATION
VFD	VARIABLE FREQUENCY DRIVE
SPD	SURGE PROTECTION DEVICE
PQM	POWER QUALITY MONITOR
SSRV	SOLID STATE REDUCED VOLTAGE STARTER
SST	SOLID STATE TRIP
RVSS	REDUCED VOLTAGE SOFT STARTER
N	BUS CONNECTION

CONTROL CIRCUIT & PILOT DEVICE LEGEND

SYMBOL	DESCRIPTION
	PRESS. ACTUATED SWITCH
	FLOAT ACTUATED SWITCH
	FLOW ACTUATED SWITCH
	TEMP. ACTUATED SWITCH
	LIMIT SWITCH - NORMALLY OPEN
	LIMIT SWITCH - NORMALLY CLOSED
	LIGHT SWITCH - NORMALLY CLOSED HELD OPEN
	LIGHT SWITCH - NORMALLY OPEN HELD CLOSED
	FUSE
CR	CONTROL RELAY COIL
	CONTROL RELAY CONTACT-NORMALLY OPEN
	CONTROL RELAY CONTACT-NORMALLY CLOSED
CR L / CR U	TWO COIL LATCHING RELAY
T	TIMING RELAY COIL
	TIMED CLOSED CONTACT ON ENERGIZATION
	TIMED OPEN CONTACT ON ENERGIZATION
	TIMED OPEN CONTACT ON DE-ENERGIZATION
	TIMED CLOSED CONTACT ON DE-ENERGIZATION
	MOMENTARY PUSHBUTTON OPERATOR-NORMALLY OPEN
	MOMENTARY PUSHBUTTON OPERATOR-NORMALLY CLOSED
	PUSHBUTTON OPERATOR WITH MUSHROOM HEAD
	FIELD LOCATED STOP BUTTON
	MAINTAINED PUSH-PULL OPERATOR
	MAINTAINED STOP-START PUSHBUTTON OPERATOR
	SOLENOID OR CLUTCH
R	PUSH-TO-TEST INDICATING LIGHT R = COLOR RED Y = COLOR YELLOW G = COLOR GREEN
	TIMED CLOSED CONTACT ON DE-ENERGIZATION
	MOMENTARY PUSHBUTTON OPERATOR-NORMALLY OPEN
	MOMENTARY PUSHBUTTON OPERATOR-NORMALLY CLOSED
	MAINTAINED STOP MOMENTARY START PUSHBUTTON (JOG)
	ZERO SPEED OR ANTI-PLUGGING SWITCH
	LOCAL TERMINALS WITH EXTERNAL WIRING
ET	ELAPSED TIME INDICATOR
INST.	TIMING RELAY INSTANTANEOUS CONTACTS NORMALLY OPEN
INST.	TIMING RELAY INSTANTANEOUS CONTACTS NORMALLY CLOSED
X1 X2	120 VAC TRANSFORMER
H A	SELECTOR SWITCH OPERATOR WITH FUNCTION SHOWN

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ELECTRICAL LEGEND

Project No.:	200-08498-24002
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E-002

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Bar Measures 1 inch

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GENERAL NOTES

1. PERFORM WORK IN COMPLIANCE WITH CODES AND ORDINANCES APPLICABLE TO AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO; NATIONAL ELECTRICAL CODE, NATIONAL FIRE PROTECTION CODES, BUILDING CODES, ENERGY CODES, HEALTH AND SAFETY CODES, LOCAL LAWS AND REGULATIONS, AND ACCESSIBILITY REQUIREMENTS. ADJUST WORK REQUIRED BY THIS CONTRACT WHERE NECESSARY FOR COMPLIANCE.
2. ADHERE TO THE LATEST VERSION OF APPLICABLE INDUSTRY STANDARDS, INCLUDING BUT NOT LIMITED TO; ISA - INSTRUMENT SOCIETY OF AUTOMATION, IES HANDBOOK AND RECOMMENDED PRACTICES FOR LIGHTING, NETA ACCEPTANCE TESTING STANDARDS (ATS), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE), ANSI, ELECTRONIC INDUSTRY ALLIANCE / TELECOMMUNICATIONS INDUSTRY ASSOCIATION (EIA / TIA), AND BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICSI.)
3. PROVIDE EQUIPMENT AND MATERIALS LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCEPTABLE TO THE AUTHORITIES HAVING JURISDICTION. CONTROL PANELS SHALL BE UL 508A LISTED AND LABELED. ANY PLC PANEL, UL 508A CONTROL PANEL, MCC, SWITCHGEAR, STANDALONE MOTOR CONTROLLERS, OR OTHER LISTED ELECTRICAL EQUIPMENT MODIFIED IN THE FIELD AFTER IT HAS LEFT THE FACTORY SHALL BE EVALUATED BY AN NRTL TO PROVIDE A FIELD LISTING.
4. ADHERE TO OWNER'S SITE-SPECIFIC PROTOCOLS INCLUDING, BUT NOT LIMITED TO; SYSTEM OPERATIONS, HEALTH AND SAFETY, SITE ACCESS RESTRICTIONS, AND LOCK-OUT / TAG-OUT PROCEDURES.
5. PERFORM ELECTRICAL WORK IN ADHERENCE TO NECA 1 - STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION.
6. COORDINATE WORK WITH OTHER TRADES, AND WITH OWNER'S THIRD-PARTY CONTRACTORS AS APPLICABLE.
7. THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO; TEMPORARY PROVISIONS TO MAINTAIN FACILITY USE, TEMPORARY CONSTRUCTION POWER AND COMMUNICATIONS, TOOLS / EQUIPMENT / AND MATERIALS REQUIRED FOR EXECUTION OF THEIR WORK, WORKFORCE SUPERVISION AND STAFFING, SITE HEALTH AND SAFETY, CONSTRUCTION SCHEDULING, SEQUENCE OF CONSTRUCTION, AND PLANNING AND COORDINATION OF WORK.
8. PREPARE AND SUBMIT COORDINATION DRAWINGS FOR ELECTRICAL EQUIPMENT PLACEMENT, UNDERGROUND DUCT BANKS, AND OVERHEAD CONDUIT RACKS AND CABLE TRAYS. ILLUSTRATE CONDUIT STUB-UPS AND ENTRY LOCATIONS INTO EQUIPMENT ENCLOSURES. COORDINATE WITH ADJACENT ITEMS FOR CODE-REQUIRED CLEARANCES, AND ACCESS AS REQUIRED FOR OPERATIONS AND MAINTENANCE. (COORDINATION DRAWINGS ARE REQUIRED PRIOR TO EQUIPMENT SHOP DRAWING APPROVAL.)
9. PLAN, PERMIT AND EXECUTE TRAFFIC CONTROL MEASURES AS REQUIRED TO PERFORM WORK IN STREETS AND PUBLIC RIGHT-OF-WAY.
10. PROTECT NEW AND EXISTING EQUIPMENT AND MATERIALS FROM DAMAGE AND DETERIORATION DURING CONSTRUCTION. REPAIR OR REPLACE ITEMS DAMAGED DURING CONSTRUCTION TO THE EXTENT THEIR DAMAGE IS UNNOTICEABLE AND IN A MANNER THAT DOES NOT AFFECT FUNCTION, USE, OR LONGEVITY (AT NO COST TO THE OWNER). WARRANTIES SHALL NOT BE AFFECTED BY ANY REPAIRS MADE IN THE FIELD.
11. THE OWNER HAS THE RIGHT TO RETAIN OR REFUSE ANY AND REMOVED MATERIALS. COORDINATE WITH THE OWNER ON RETAINED ITEMS AND EXERCISE CARE IN REMOVAL, HANDLING AND STORAGE. ITEMS NOT RETAINED BY THE OWNER SHALL BE RECYCLED WHERE SUCH PROGRAMS EXIST, NON-RECYCLABLE ITEMS SHALL BE LAWFULLY DISPOSED OF BY THE CONTRACTOR.
12. FACILITY OPERATIONS AND USE SHALL BE MAINTAINED, EXCEPT AS EXPLICITLY IDENTIFIED FOR DECOMMISSIONING. PROVIDE TEMPORARY FACILITIES AND SERVICES NECESSARY TO MAINTAIN FACILITY OPERATIONS DURING CONSTRUCTION. COORDINATE SCHEDULING AND TEMPORARY PROVISIONS FOR SYSTEM OUTAGES WITH THE OWNER A MINIMUM OF TWO WEEKS IN ADVANCE OF WORK WHICH MAY AFFECT FACILITY OPERATIONS. THIS MAY INCLUDE TEMPORARY LIFE SAFETY SYSTEMS, TEMPORARY POWER, TEMPORARY COMMUNICATION NETWORKS, TEMPORARY CONTROLS SOFTWARE AND HARDWARE. THESE ITEMS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.
13. WHERE NEW UTILITIES ARE INCLUDED IN THE SCOPE OF WORK, COORDINATE EXACT DIVISION OF UTILITY WORK WITH LOCAL UTILITY COMPANIES PROVIDING SERVICES. WHERE CONTRACT REQUIREMENTS EXCEED THIS COORDINATED RESPONSIBILITY, PROVIDE SUITABLE CREDIT FOR WORK BEING PERFORMED BY OTHERS.
14. THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND REPRESENT SYSTEMS THAT ARE COMPLETE AND FUNCTIONAL FOR THEIR INTENDED USE. PROVIDE SUPPLEMENTAL MATERIALS, LABOR AND OTHER ANCILLARY ITEMS REQUIRED FOR COMPLETE INSTALLATION. THESE ITEMS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.
15. THE CONTRACTOR SHALL COORDINATE WITH THE HVAC AND PROCESS EQUIPMENT SUPPLIERS. THE INTENT OF THE ELECTRICAL DRAWINGS IS TO PROVIDE A FULLY FUNCTIONAL HVAC AND PROCESS TREATMENT SYSTEM. AS SUCH, THE CONTRACTOR MAY BE REQUIRED TO MODIFY ELECTRICAL INSTALLATION INDICATED ON PLANS OR PROVIDE SUPPLEMENTAL MATERIALS, LABOR AND OTHER ANCILLARY ITEMS REQUIRED FOR COMPLETE INSTALLATION. THESE ITEMS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME
16. PROVIDE ADDITIONAL JUNCTION BOXES, PULL BOXES AND HANDHOLES NECESSARY TO LIMIT INSTALLED CONDUIT BENDS TO NO MORE THAN 360-DEGREES FOR OVERHEAD WORK, AND 270-DEGREES FOR UNDERGROUND WORK. LOCATE BOXES BASED OF CABLE PULLING TENSION AND ACCESSIBILITY. SIZE BOXES PER CABLE MANUFACTURES BENDING RADIUS REQUIREMENTS AND THE NEC. THESE ITEMS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME. INSTALLATION OF NETWORK CABLING AND EQUIPMENT SHALL COMPLY WITH APPLICABLE EIA/TIA AND BICSI REQUIREMENTS.
17. CONVENIENCE OUTLETS SHOWN WITHOUT DESIGNATED CIRCUITRY SHALL INCLUDE CONDUIT AND WIRE BACK TO THE NEAREST 120V BRANCH CIRCUIT PANELBOARD USING WIRING METHODS CONSISTENT WITH SIMILAR CIRCUITS WITHIN THAT AREA. THIS WORK SHALL BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.
18. PROVIDE BRANCH CIRCUIT WIRING AND CONTROLS FOR INSTALLED LIGHTING SYSTEMS. THIS WORK IS TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.
19. ADJUST BRANCH CIRCUIT CONDUCTOR SIZES TO COMPENSATE FOR VOLTAGE DROP AND DERATING OF AMPACITY BASED ON THE NUMBER OF CONDUCTORS CONTAINED WITHIN A SUBJECT RACEWAY. FOR 20-AMPERE BRANCH CIRCUITS EXCEEDING 75-FEET IN OVERALL LENGTH, INCREASE CONDUCTORS TO #10AWG SIZE (OR GREATER) AS REQUIRED TO REDUCE VOLTAGE DROP TO NO MORE THAN THREE PERCENT LINE-TO-NEUTRAL. THESE ADJUSTMENTS ARE TO BE INCLUDED IN THE CONTRACTOR'S BID AND SHALL NOT BE A BASIS FOR CLAIMS OF ADDITIONAL COST OR TIME.
20. DIMENSIONAL TOLERANCES ARE NOT SPECIFICALLY INDICATED IN PLANS, DETAILS AND SPECIFICATIONS. ALIGN ABUTTING HORIZONTAL ITEMS WITHIN +/- 1/64", AND WALL-MOUNTED OR SUSPENDED ITEMS SEPARATED BY 12" OR MORE TO A TOLERANCE OF 1/16". PLUMB ITEMS SHALL NOT DEVIATE FROM TRUE VERTICAL BY MORE THAN 1/8" IN 10'-0". LEVEL EQUIPMENT TO WITHIN 1/32" ACROSS ITS HORIZONTAL SURFACE IN EACH DIRECTION.
21. ALL CONDUITS SHALL BE MINIMUM ¾ INCH RGS (ABOVE GRADE) AND 1" PVC (BELOW GRADE) UNLESS OTHERWISE NOTED AND INCLUDE AN INSULATED GREEN GROUNDING CONDUCTOR SIZED PER THE NEC. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. THIS GROUND WIRE SHALL BE CONNECTED AT EACH END TO THE EQUIPMENT GROUND. THIS ALSO INCLUDES INSTRUMENTATION DEVICES SUCH AS LEVEL, PRESSURE, FLOW TRANSMITTERS, LIMIT SWITCHES, CONDUITS, NETWORK AND I/O CABLES.
22. COMPLETELY CONCEAL POLY-VINYL CHLORIDE (PVC) CONDUITS WITHIN CONCRETE OR BELOW GRADE (UNLESS SPECIFICALLY INDICATED OTHERWISE.) PROVIDE RIGID GALVANIZED STEEL RISERS AND ELBOWS (WITH OR WITHOUT PVC COATING AS SPECIFIED) FOR EMBEDDED / UNDERGROUND PVC CONDUIT RUNS.
23. SECURELY FASTEN EQUIPMENT AND MATERIALS INTO PLACE TO PROVIDE RESTRAINT AGAINST MOVEMENT AND SEPARATION DURING CONDITIONS OF REGULAR USE AND DURING SEISMIC EVENTS. PROVIDE AND SUBMIT FOR APPROVAL STRUCTURAL DESIGN AND CALCULATIONS BY A REGISTERED PROFESSIONAL ENGINEER FOR SEISMIC RESTRAINT.
24. UNDERGROUND POWER AND CONTROL CONDUIT SYSTEMS SHALL BE SEPARATED BY 12" MINIMUM AND SHALL BE RUN THROUGH SEPARATE JUNCTION BOXES AND MANHOLES.
25. ALL EXTERIOR AREAS SHALL BE CONSIDERED WET AND CORROSIVE. EXTERIOR ELECTRICAL ENCLOSURES SHALL BE NEMA 4X STAINLESS STEEL UNLESS SPECIFICALLY NOTED OTHERWISE.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COORDINATED ELECTRICAL POWER DISTRIBUTION SYSTEM IN ACCORDANCE WITH NEC ARTICLE 240.12 AND ARTICLE 700.27 COORDINATION STUDIES SHALL BE APPROVED PRIOR TO ORDERING ELECTRICAL DISTRIBUTION EQUIPMENT AND BREAKERS.
27. ELECTRICAL SYSTEM INSTALLED IN HAZARDOUS LOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 5, ARTICLE 500 OF THE NEC. EQUIPMENT SHALL BE RATED FOR THE HAZARDOUS AREA IN WHICH IT IS PLACED. CONDUITS LEAVING HAZARDOUS AREAS SHALL BE SEALED PER THE NEC. STANDARDS SUCH AS NFPA 820 AND API 500 SHALL BE USED IN ACCORDANCE WITH CHAPTER 5 OF THE NEC.
28. THE CONTRACTOR SHALL SIZE WIRING NOT EXPLICITLY SHOWN ON THE DRAWINGS ACCORDING TO THE REQUIREMENT OF THE NEC FOR THE SPECIFIC APPLICATION AND CONDITIONS. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES AND PROTECTING SAID UTILITIES DURING THE INSTALLATION OF THE ELECTRICAL SYSTEM.
30. WHERE SELECTIVE DEMOLITION TO EXISTING PAVEMENTS AND SIDEWALKS ARE REQUIRED TO PERFORM CONSTRUCTION ACTIVITIES, NEATLY SAW-CUT SURFACES ALONG EDGES OF WORK AREA.
31. CORE-DRILLING SHALL BE UTILIZED FOR CONCRETE WALLS AND FLOORS WHERE PENETRATIONS ARE REQUIRED. LOCATE REINFORCING STEEL PRIOR TO CORE DRILLING AND AVOID CUTTING STEEL WHERE POSSIBLE. WHERE CUTTING OF REINFORCING STEEL IS UNAVOIDABLE, SUBMIT AN RFI AND OBTAIN STRUCTURAL APPROVAL FOR THE NECESSARY REPAIRS ASSOCIATED WITH CUTTING REINFORCING STEEL.
32. VERIFY VOLTAGE AND PHASE PRIOR TO ORDERING AND AGAIN PRIOR TO TERMINATION OF CONDUCTORS ON EQUIPMENT AND DEVICES. DAMAGES RESULTING FROM LACK OF VERIFICATION SHALL BE BORNE BY THE CONTRACTOR.
33. SECURE SURFACE-MOUNTED ELECTRICAL EQUIPMENT AND RACEWAYS WITH CHANNEL STRUT. MINIMUM STRUT LENGTH TO BE 12 INCHES, WHERE POSSIBLE.
34. APPLY DUCT SEAL TO CONDUITS ENTERING CONTROL PANELS AND ELECTRICAL EQUIPMENT ENCLOSURES.
35. ADJUST EQUIPMENT RATINGS AND CAPACITIES TO COMPENSATE FOR SITE-SPECIFIC AMBIENT TEMPERATURE CONDITIONS AND ELEVATIONS. SIZE EQUIPMENT AS HEAVY DUTY WHERE CONDITIONS OF USE WARRANT.
36. PERFORM FINAL POWER STUDIES AND ARC-FLASH EVALUATION AFTER EQUIPMENT HAS BEEN SELECTED, BUT PRIOR TO ORDERING, ALLOWING FOR ADJUSTMENTS TO OVERCURRENT DEVICE SELECTION AND EQUIPMENT RATINGS AS DETERMINED BY THE STUDY. UNSUITABLE EQUIPMENT ORDERED PRIOR TO PERFORMING THESE STUDIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
37. WIRE STARTERS IN ACCORDANCE WITH NEMA STANDARD ICS 18-2001 (CURRENT VERSION), CLASS IIB WIRING. SUBMIT ENGINEERED SHOP DRAWINGS FOR STARTERS SHOWN TO BE WIRED.
38. MAINTAIN A COMPREHENSIVE SET OF UP TO DATE AS-CONSTRUCTED RECORD DOCUMENTS, WHICH SHALL BE KEPT AND AVAILABLE FOR ON-SITE REVIEW AT ALL TIMES. USING CONFORMED DOCUMENTS AS A BASE, UTILIZE COLOR-CODED MARKUPS TO INDICATE FIELD MODIFICATIONS; RED TO INDICATE ADDED WORK OR REVISED LOCATIONS OF NEW WORK, GREEN FOR DELETED CONTENT, PURPLE FOR EXISTING CONDITIONS, AND BLUE FOR NON-TECHNICAL EXPLANATORY NOTES. YELLOW HIGHLIGHTING MAY BE USED TO INDICATE WORK COMPLETED AND IN FULL COMPLIANCE WITH THE CONFORMED SET.

ABBREVIATIONS

%	PERCENTAGE
2P	TWO POLE
A	AMPERES OR AMBER, OR AERATOR
AC	ABOVE COUNTER
ACS	ACCESS CONTROL STATION
AF	AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AIC	AMPERES INTERRUPTING CURRENT
AIL	AMBER INDICATING LIGHT
AIR	ANALYSIS INDICATING RECORDER
AIT	ANALYSIS INDICATING TRANSMITTER
AL	ALUMINUM
ALT	ALTERNATE OR ALTERNATOR
AM	AMMETER
AMP	AMPERE
ANN	ANNUNCIATOR
AO	ANALOG OUTPUT
AS	AMPERE SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BC	BARE COPPER
BKR	CIRCUIT BREAKER
BLDG	BUILDING
C	CONDUIT
CAT	CATEGORY
CB	CIRCUIT BREAKER
CH	COUNTER HEIGHT
CHG	CHARGER-BATTERY
CKT	CIRCUIT OR CIRCUIT BREAKER
CNTL	CONTROL
CP	CONTROL PANEL
CR	CONTROL RELAY OR CORROSION RESISTANT
CSI	CONTROL SYSTEM INTEGRATOR
CT	CURRENT TRANSFORMER
CU	COPPER OR CONDENSING UNIT
DB	DUCT BANK
DCMA	DIRECT CURRENT MILLIAMPERES
DI	DISCRETE INPUT
DIAG	DIAGRAM
DISC	DISCONNECT
DN	DOWN
DO	DISCRETE OUTPUT
DP	DISTRIBUTION PANEL
DS	DISCONNECT SWITCH
DWG(S)	DRAWING(S)
EC	ELECTRICAL CONTRACTOR
ECU	ENERGY CONTROL UNIT
EF	EXHAUST FAN
EH	ELECTRIC HEATER
EL	ELEVATION
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENET	ETHERNET
EP OR E	EXPLOSION PROOF
EQUIP	EQUIPMENT
ETM	ELAPSED TIME METER
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WATER HEATER
EXDR	EXISTING DEVICE TO REMAIN
EXST	EXISTING
EXT	EXTERIOR
EXTN	EXTENSION
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAH	FLOW ALARM HIGH
FBC	FLORIDA BUILDING CODE
FCV	FLOW CONTROL VALVE
FDR	FEEDER
FE	FLOW ELEMENT
FI	FLOW INDICATOR
FIT	FLOW INDICATING TRANSMITTER
FMCP	FIRE ALARM & MASS NOTIFICATION CONTROL PANEL
FO	FIBER OPTIC
FQI	FLOW TOTALIZER
FT	FLOW TRANSMITTER
FV	FLOW VALVE
FVR	FULL VOLTAGE REVERSING
GB	GROUND BUS
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GFI	GROUND-FAULT INTERRUPTING
GFP	GROUND-FAULT PROTECTION OF EQUIPMENT
GIL	GREEN INDICATING LIGHT
GND	GROUND
GRP	GROUP
GRS	GALVANIZED RIGID STEEL
H	HORN OR HIGH
HC	HAND CONTROL
HH	HANDHOLE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPS	HIGH PRESSURE SWITCH
HR	HAND RESET OR HOUR
HS	HAND SWITCH
HTR	HEATER
HZ	HERTZ
I	INTERLOCK
I/O	INPUT/OUTPUT
IC	ISOLATION CONTACTOR
IDS	INTRUSION DETECTION SYSTEM
IG	ISOLATED GROUND
INST	INSTANTANEOUS
INT	INTERVAL TIMER
INTLK	INTERLOCK
ISP	INSTRUMENT AND SAMPLE PANEL
JB	JUNCTION BOX
K	KEY
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLTS
KVA	KILOVOLT-AMPERES
KVAR	KILOVARS (REACTIVE KILOVOLT-AMPERES)
KW	KILOWATTS
KWH	KILOWATT HOUR
KY	TIME RELAY
LAH	HIGH LEVEL ALARM
LAL	LOW LEVEL ALARM
LC/C	LIGHTING CONTROL / CONTACTOR
LCP	LOCAL CONTROL PANEL
LCV	LEVEL CONTROL VALVE
LET	LEVEL ELEMENT TRANSMITTER
LF	LINEAR FEET
LI	LEVEL INDICATOR
LIC	LEVEL INDICATING CONTROLLER
LIR	LEVEL INDICATING RECORDER
LLH	LEVEL LAMP HIGH
LM	LUMEN
LOR	LOCAL-OFF-REMOTE
LOS	LOCK-OUT STOP
LP	LIGHTING PANEL
LR & L	LATCHING RELAY
LS	LEVEL SWITCH
LSH	LEVEL SWITCH HIGH
LSHL	LEVEL SWITCH HIGH/LOW
LSIG	LONG, SHORT, INSTANTANEOUS, GROUND
LSL	LEVEL SWITCH LOW
LT	LEVEL TRANSMITTER
LT	LEVEL TRANSMITTER OR LIGHT
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
LTS	LIGHTING AND LIGHTS
LV	LOW VOLTAGE
LYR	LEVEL RELAY
M	MOTOR STARTER COIL OR CYCLE TIMER
mA	MILLIAMPERES
MAN	MANUAL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MAIN CONTROL PANEL
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MH	MANHOLE
MIN	MINUTE, MINIMUM
MIN	MINUTES OR MINIMUM
MLO	MAIN LUGS ONLY
MM	MULTIMODE
MPC	MINI POWER CENTER
MS	MAGNETIC STARTER
MS	MANUAL MOTOR STARTER
MTR	MOTOR
MTS	MANUAL TRANSFER SWITCH
mV	MILLIVOLTS
N	NEUTRAL
N/A	NOT APPLICABLE
N1	NEMA 1 ENCLOSURE
N12	NEMA 12 ENCLOSURE
N3R	NEMA 3R ENCLOSURE
NA	NON-AUTO
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
NU	NUMBER
NP	NAMEPLATE
NTS	NOT TO SCALE
OC	OPEN/CLOSE
OL	OVERLOAD
OLR	OVERLOAD RELAY
OO	ON-OFF
OOR	ON-OFF RESET
OUT	OUTPUT
P&ID	PROCESS & INSTRUMENTATION DIAGRAM
PC	PHOTOELECTRIC CELL
PCV	PRESSURE CONTROL VALVE
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PC	PHOTOELECTRIC CELL
PE	PRESSURE ELEMENT
PH	PHASE
PI	PRESSURE INDICATOR
PIT	PRESSURE INDICATING TRANSMITTER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PM	PHASE MONITOR
PMP	PUMP
PNL	PANEL
POE	POWER OVER ETHERNET
PP	POWER PANEL
PR	SHIELDED PAIR
PRI	PRIMARY
PSH	PRESSURE SWITCH HIGH
PSI	POUNDS PER SQUARE INCH
PSL	PRESSURE SWITCH LOW
PVC	POLYVINYL CHLORIDE CONDUIT
R	RED, RELAY, OR RUN
RCP	REFLECTED CEILING PLAN
RE	RELOCATE
RECEPT	RECEPTACLE
REF	REFERENCE
RGA	RIGID GALVANIZED ALUMINUM
RGS	RIGID GALVANIZED STEEL
RIL	RED INDICATING LIGHT
RIO	REMOTE I/O PANEL
RM	ROOM
RP	REPLACE
RTD	RESISTANCE TEMPERATURE DETECTOR
RTM	RUNNING TIME METER
RTU	REMOTE TELEMETRY UNIT
RVNR	REDUCED VOLTAGE, NON REVERSING
RVS	REDUCED VOLTAGE STARTER
RVSS	REDUCED VOLTAGE SOFT STARTER
S	START CONTACTOR
S, SEC	SECOND
S2	NEMA SIZE 2 STARTER
SC	SPEED CONTROL;
SEC	SECONDARY OR SECONDS
SEL	SELECTOR
SER	SERVICE ENTRANCE RATED
SH	SHEET OR SHIELDED
SM	SINGLE MODE
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SS	SELECTOR SWITCH OR STAINLESS STEEL
SSSS	SOLID STATE SOFT START
STP	SHIELDED TWISTED PAIR
SV	SOLENOID VALVE
SWBD	SWITCHBOARD
T	THERMOSTAT
TB	TERMINAL BOX, TERMINAL BLOCK
TDR	TIME DELAY RELAY
TEL	TELEPHONE
TI	TEMPERATURE INDICATOR
TO THERMAL	TIME DELAY OPENING CONTACT OR OVERLOAD
TOA	TEST-OFF-AUTO
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UA	COMMON ALARM
UE	UNDERGROUND ELECTRIC
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UP	UTILITY POWER
UPS	UNINTERRUPTIBLE POWER SUPPLY
UT	UNDERGROUND TELECOMMUNICATIONS
V	VOLTS
VA	VOLT AMPS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
W	WIRE, WATTS
W/	WITH
W/O	WITHOUT
WAP	WIRELESS ACCESS PORT
WI	WEIGHT INDICATOR
WP	WEATHERPROOF
XFMR	TRANSFORMER
XLP	CROSS-LINKED POLYETHYLENE
XP	EXPLOSION-PROOF
YC	STATUS CONTROL
YL	STATUS INDICATION
ZS	POSITION SWITCH
ZSC	POSITION SWITCH CLOSED
ZSO	POSITION SWITCH OPEN

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Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

ELECTRICAL LEGEND

Project No.: 200-08498-24002
Designed By: JAS
Drawn By: JAS
Checked By: JDM

E-003

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Bar Measures 1 inch

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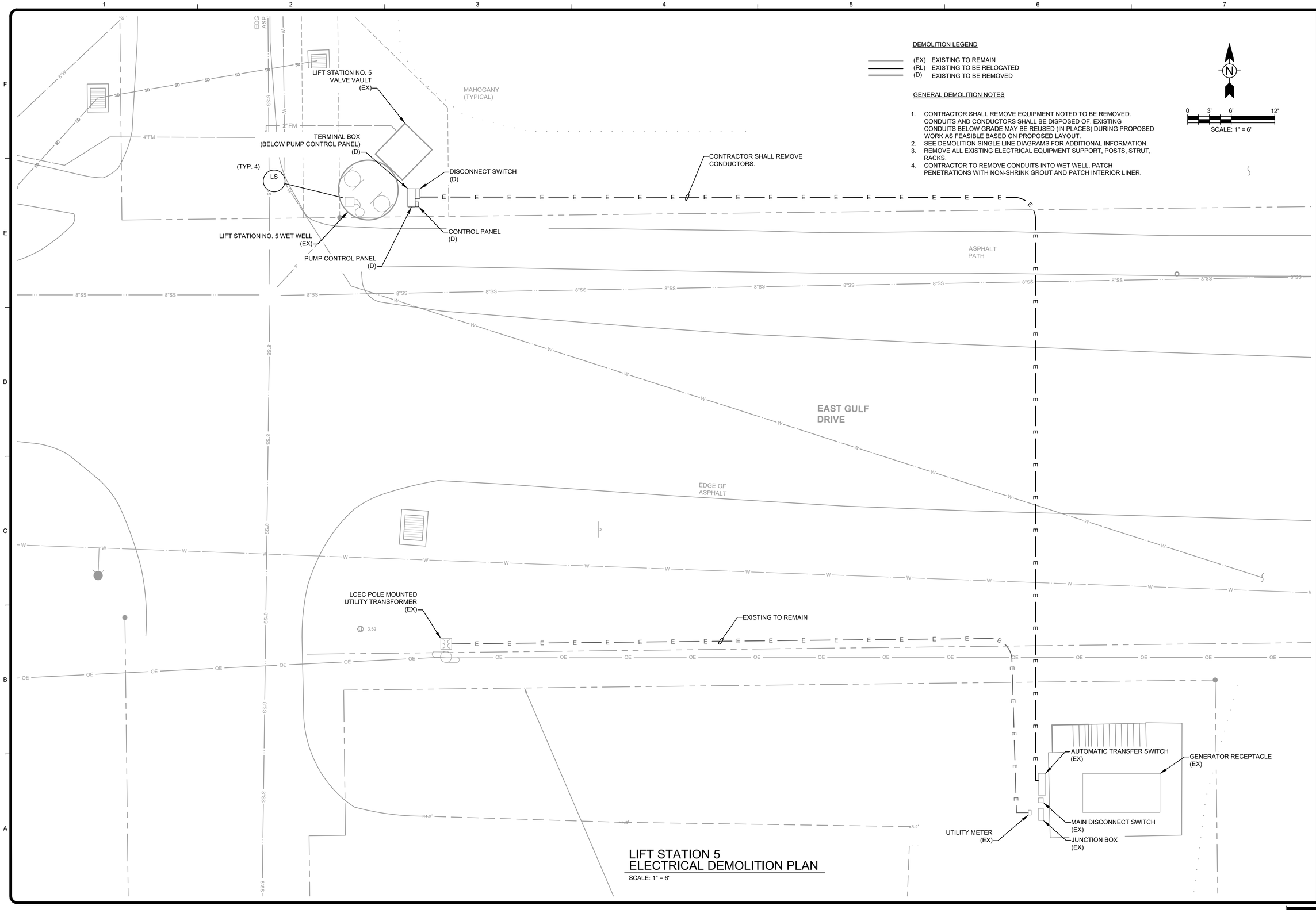

LIFT STATION 5
ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 6'

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LIFT STATION 05
ELECTRICAL SITE PLAN DEMOLITION

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-101

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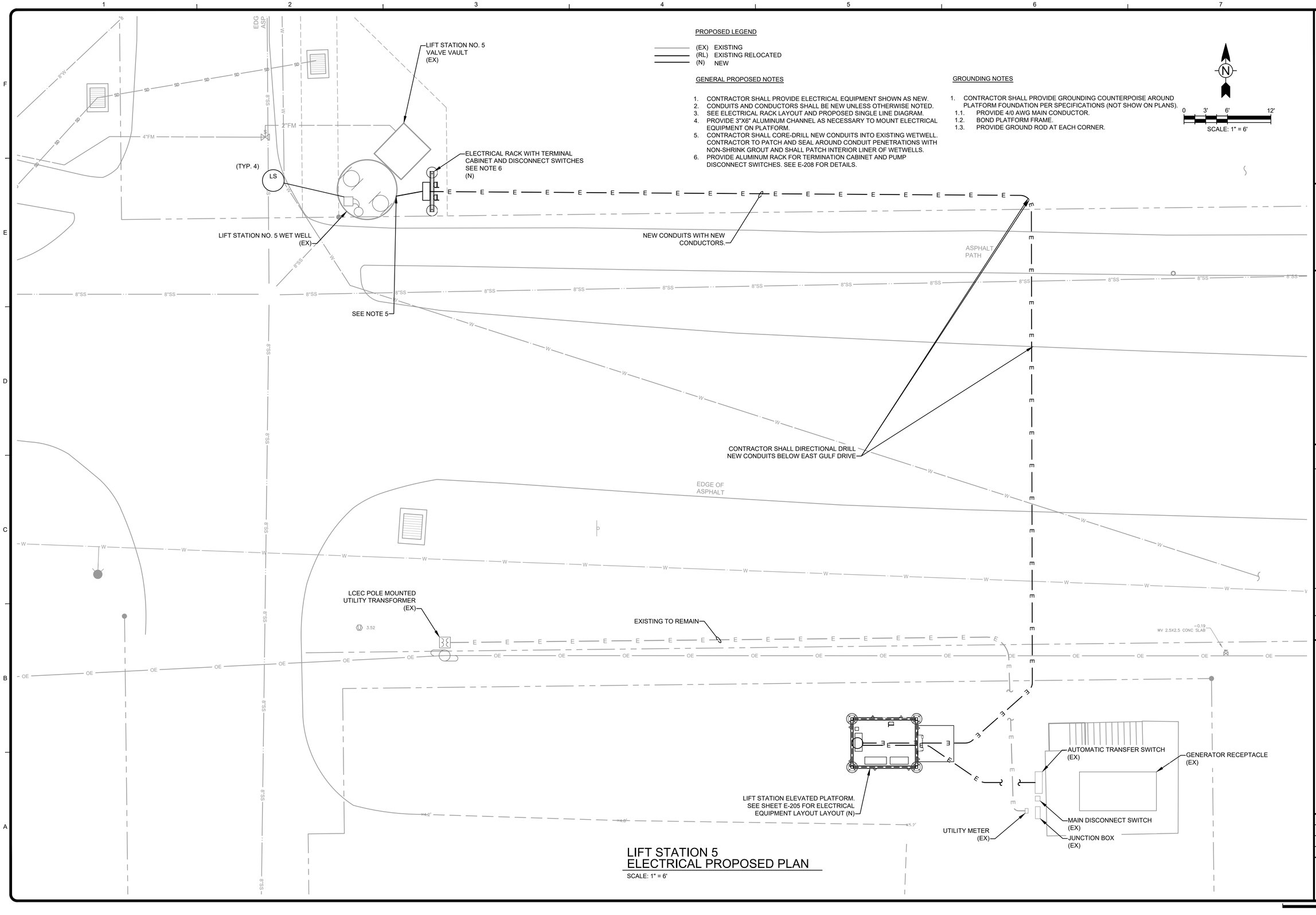

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
LIFT STATION 05
ELECTRICAL SITE PLAN
PROPOSED

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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OWNER: JAMES M AND JODIE S
NABER
UNIT 1 BLOCK B LOT 11
P.B. 30 PAGE 70
STRAP: 30-46-23-T1-0020B.0110

760 BIRDIE VIEW POINT

P.B. 54 PAGES 87-97
STRAP: 30-46-23-T1-03408B.0000

30.00'

30.00'

BIRDIE VIEW POINT

EDGE OF ASPHALT

LCEC POLE MOUNTED
UTILITY TRANSFORMER
(EX)

LCEC SERVICE DROP POLE
(EX)

EXISTING TO REMAIN

CONTRACTOR SHALL REMOVE CONDUCTORS. CONDUIT TO REMAIN AND BE EXTENDED AS NECESSARY.

6.0

LIFT STATION NO. 14
VALVE VAULT
(EX)

UTILITY METER
(D)

SUBMERSIBLE PUMP
(TYP.)

(TYP. 4)

LS

LIFT STATION NO. 14 WET WELL
(EX)

PUMP CONTROL PANEL
(D)

MAIN DISCONNECT SWITCH
(D)

CONCRETE
PATH

4"FM

8"SS

OE

E

4.77
CO

OWNER: WILLIAM E AND VIRGINIA O
FELLOWS
UNIT 1 BLOCK B LOT 10
P.B. 30 PAGE 70
STRAP: 30-46-23-T1-0020B.0090

740 BIRDIE VIEW POINT

OWNER: WILLIAM E AND VIRGINIA O
FELLOWS
UNIT 1 BLOCK B LOT 9
P.B. 30 PAGE 70

LIFT STATION 14
ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 10'

DEMOLITION LEGEND

- (EX) EXISTING TO REMAIN
- (RL) EXISTING TO BE RELOCATED
- (D) EXISTING TO BE REMOVED

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EQUIPMENT NOTED TO BE REMOVED. CONDUITS AND CONDUCTORS SHALL BE DISPOSED OF. CONDUITS BELOW GRADE MAY BE REUSED DURING PROPOSED WORK AS FEASIBLE BASED ON PROPOSED LAYOUT.
2. SEE DEMOLITION SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SUPPORT, POSTS, STRUT, RACKS.
4. CONTRACTOR TO REMOVE CONDUITS INTO WET WELL. PATCH PENETRATIONS WITH NON-SHRINK GROUT AND PATCH INTERIOR LINER.

N

0 5' 10' 20'
SCALE: 1" = 10'

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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 14
ELECTRICAL SITE PLAN
DEMOLITION

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-111

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OWNER: JAMES M AND JODIE S NABER
UNIT 1 BLOCK B LOT 11
P.B. 30 PAGE 70
STRAP: 30-46-23-T1-0020B.0110

760 BIRDIE VIEW POINT

P.B. 54 PAGES 87-97
STRAP: 30-46-23-T1-03408B.0000

30.00'

30.00'

BIRDIE VIEW POINT

EDGE OF ASPHALT

EXISTING TO REMAIN

LCEC POLE MOUNTED UTILITY TRANSFORMER (EX)

LCEC SERVICE DROP POLE (EX)

LIFT STATION ELEVATED PLATFORM. SEE SHEET E-201 FOR ELECTRICAL EQUIPMENT LAYOUT LAYOUT (N)

6.00' U.E (TYP.)

EXISTING CONDUIT WITH NEW CONDUCTORS. CONTRACTOR SHALL EXTEND EXISTING CONDUIT AS NECESSARY.

LIFT STATION NO. 14 VALVE VAULT (EX)

SUBMERSIBLE PUMP (TYP.)

(TYP. 4)

LS

LIFT STATION NO. 14 WET WELL (EX)

SEE NOTE 5

CONCRETE PATH

OWNER: WILLIAM E AND VIRGINIA O FELLOWS
UNIT 1 BLOCK B LOT 10
P.B. 30 PAGE 70
STRAP: 30-46-23-T1-0020B.0090

740 BIRDIE VIEW POINT

OWNER: WILLIAM E AND VIRGINIA O FELLOWS
UNIT 1 BLOCK B LOT 9
P.B. 30 PAGE 70

LIFT STATION 14
ELECTRICAL PROPOSED PLAN

SCALE: 1" = 10'

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

GENERAL PROPOSED NOTES

1. CONTRACTOR SHALL PROVIDE ELECTRICAL EQUIPMENT SHOWN AS NEW.
2. CONDUITS AND CONDUCTORS SHALL BE NEW UNLESS OTHERWISE NOTED.
3. SEE ELECTRICAL RACK LAYOUT AND PROPOSED SINGLE LINE DIAGRAM.
4. PROVIDE 3"X6" ALUMINUM CHANNEL AS NECESSARY TO MOUNT ELECTRICAL EQUIPMENT ON PLATFORM.
5. CONTRACTOR SHALL CORE-DRILL NEW CONDUITS INTO EXISTING WETWELL. CONTRACTOR TO PATCH AND SEAL AROUND CONDUIT PENETRATIONS WITH NON-SHRINK GROUT AND SHALL PATCH INTERIOR LINER OF WETWELLS.

GROUNDING NOTES

1. CONTRACTOR SHALL PROVIDE GROUNDING COUNTERPOISE AROUND PLATFORM FOUNDATION PER SPECIFICATIONS (NOT SHOW ON PLANS).
   1.1. PROVIDE 4/0 AWG MAIN CONDUCTOR.
   1.2. BOND PLATFORM FRAME.
   1.3. PROVIDE GROUND ROD AT EACH CORNER.

N

0 5' 10' 20'
SCALE: 1" = 10'

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 14
ELECTRICAL SITE PLAN
PROPOSED

Project No.:	200-08498-24002
Designed By:	JAS
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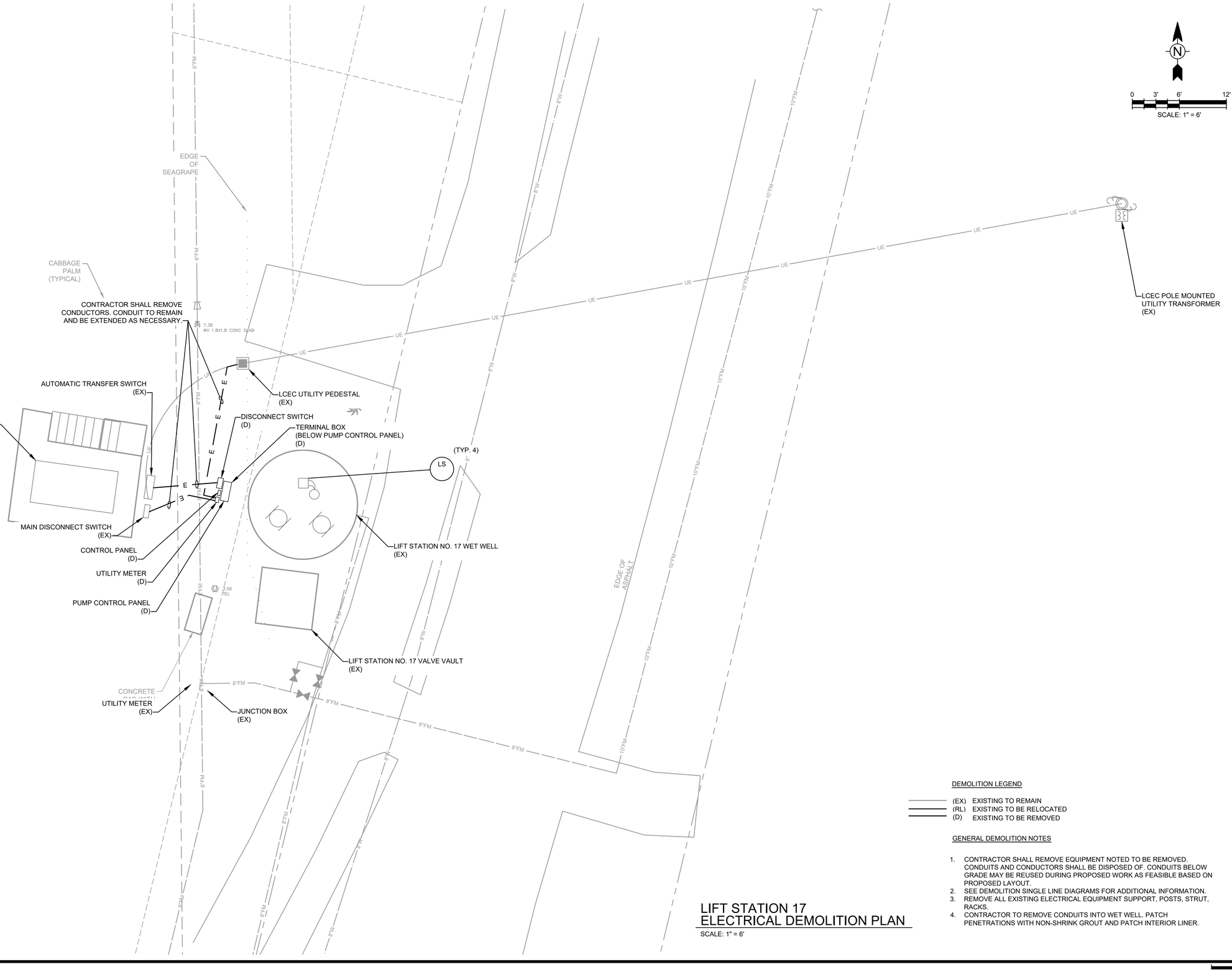
Bar Measures 1 inch



0 3' 6' 12'

SCALE: 1" = 6'

LIFT STATION 17
ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 6'

DEMOLITION LEGEND

- (EX) EXISTING TO REMAIN
- (RL) EXISTING TO BE RELOCATED
- (D) EXISTING TO BE REMOVED

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EQUIPMENT NOTED TO BE REMOVED. CONDUITS AND CONDUCTORS SHALL BE DISPOSED OF. CONDUITS BELOW GRADE MAY BE REUSED DURING PROPOSED WORK AS FEASIBLE BASED ON PROPOSED LAYOUT.
2. SEE DEMOLITION SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SUPPORT, POSTS, STRUT, RACKS.
4. CONTRACTOR TO REMOVE CONDUITS INTO WET WELL. PATCH PENETRATIONS WITH NON-SHRINK GROUT AND PATCH INTERIOR LINER.

TETRA TECH
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www.tetratech.com
10600 CHEVROLET WAY, SUITE 102
ESTERO, FLORIDA 33928
PHONE: (239) 390-1467

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CITY OF SANIBEL
800 Dunlop Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 17
ELECTRICAL SITE PLAN
DEMOLITION

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-121

Copyright: Tetra Tech

Bar Measures 1 inch

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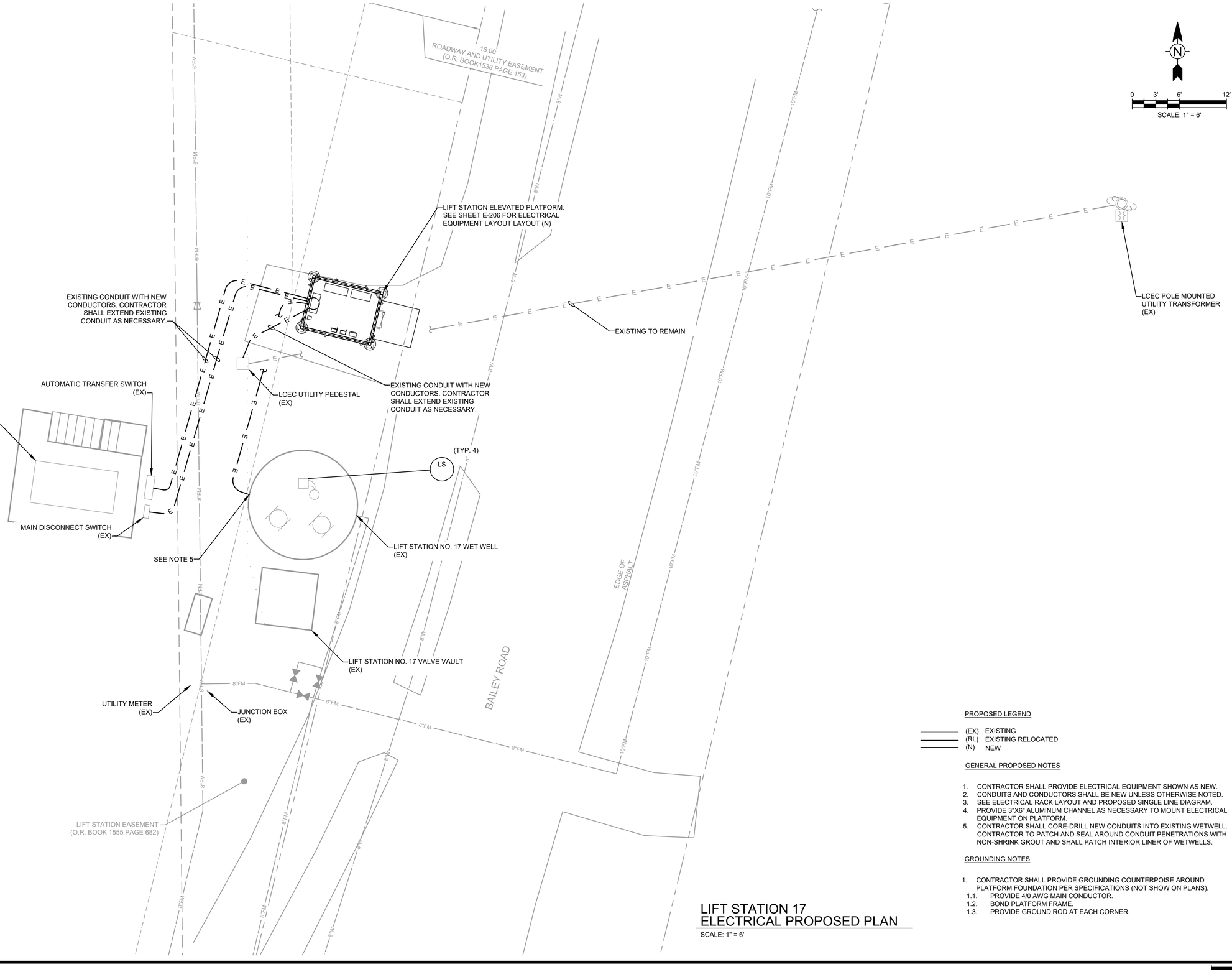

LIFT STATION 17
ELECTRICAL PROPOSED PLAN

SCALE: 1" = 6'

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

GENERAL PROPOSED NOTES

1. CONTRACTOR SHALL PROVIDE ELECTRICAL EQUIPMENT SHOWN AS NEW.
2. CONDUITS AND CONDUCTORS SHALL BE NEW UNLESS OTHERWISE NOTED.
3. SEE ELECTRICAL RACK LAYOUT AND PROPOSED SINGLE LINE DIAGRAM.
4. PROVIDE 3"X6" ALUMINUM CHANNEL AS NECESSARY TO MOUNT ELECTRICAL EQUIPMENT ON PLATFORM.
5. CONTRACTOR SHALL CORE-DRILL NEW CONDUITS INTO EXISTING WETWELL. CONTRACTOR TO PATCH AND SEAL AROUND CONDUIT PENETRATIONS WITH NON-SHRINK GROUT AND SHALL PATCH INTERIOR LINER OF WETWELLS.

GROUNDING NOTES

1. CONTRACTOR SHALL PROVIDE GROUNDING COUNTERPOISE AROUND PLATFORM FOUNDATION PER SPECIFICATIONS (NOT SHOW ON PLANS).
   1.1. PROVIDE 4/0 AWG MAIN CONDUCTOR.
   1.2. BOND PLATFORM FRAME.
   1.3. PROVIDE GROUND ROD AT EACH CORNER.

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 17
ELECTRICAL SITE PLAN
PROPOSED

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-122

Copyright: Tetra Tech

Bar Measures 1 inch

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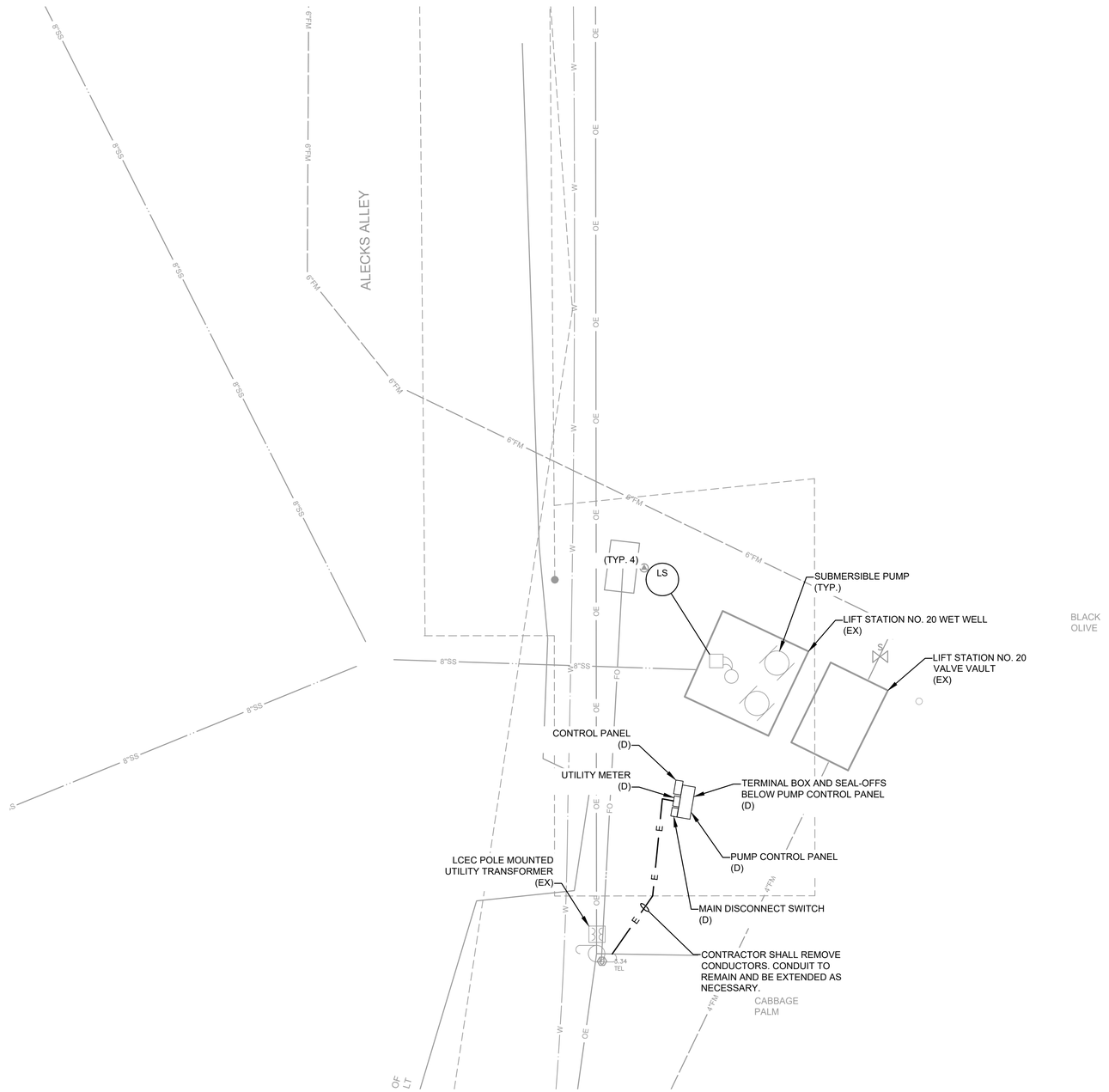

LIFT STATION 20
ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 10'

DEMOLITION LEGEND

- (EX) EXISTING TO REMAIN
- (RL) EXISTING TO BE RELOCATED
- (D) EXISTING TO BE REMOVED

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EQUIPMENT NOTED TO BE REMOVED. CONDUITS AND CONDUCTORS SHALL BE DISPOSED OF. CONDUITS BELOW GRADE MAY BE REUSED DURING PROPOSED WORK AS FEASIBLE BASED ON PROPOSED LAYOUT.
2. SEE DEMOLITION SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SUPPORT, POSTS, STRUT, RACKS.
4. CONTRACTOR TO REMOVE CONDUITS INTO WET WELL. PATCH PENETRATIONS WITH NON-SHRINK GROUT AND PATCH INTERIOR LINER.

N

0 5' 10' 20'

SCALE: 1" = 10'

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THE CITY OF SANIBEL
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LIFT STATION 20
ELECTRICAL SITE PLAN
DEMOLITION

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-131

Copyright: Tetra Tech

Bar Measures 1 inch

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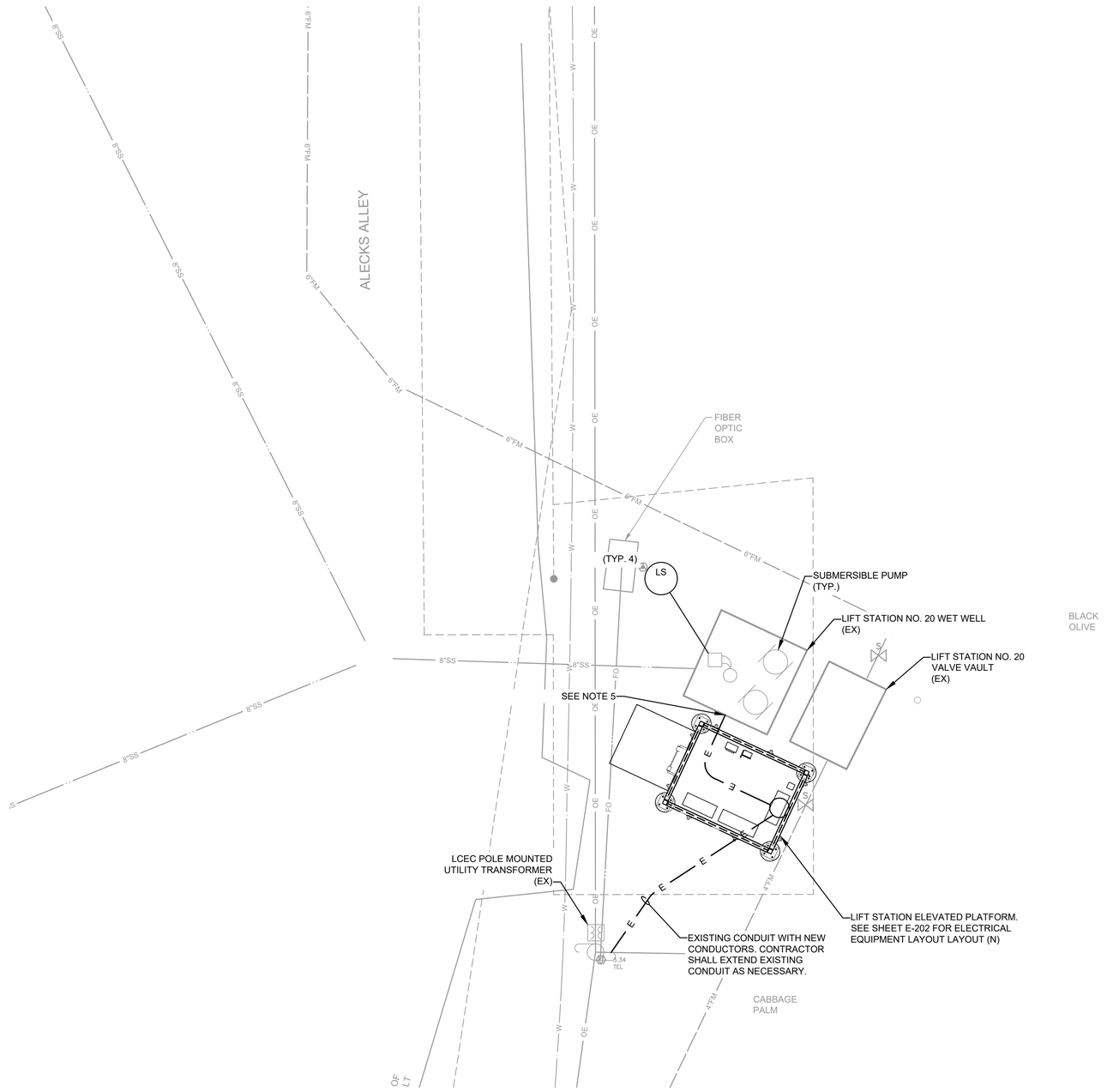

LIFT STATION 20
ELECTRICAL PROPOSED PLAN

SCALE: 1" = 10'

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

GENERAL PROPOSED NOTES

1. CONTRACTOR SHALL PROVIDE ELECTRICAL EQUIPMENT SHOWN AS NEW.
2. CONDUITS AND CONDUCTORS SHALL BE NEW UNLESS OTHERWISE NOTED.
3. SEE ELECTRICAL RACK LAYOUT AND PROPOSED SINGLE LINE DIAGRAM.
4. PROVIDE 3"X6" ALUMINUM CHANNEL AS NECESSARY TO MOUNT ELECTRICAL EQUIPMENT ON PLATFORM.
5. CONTRACTOR SHALL CORE-DRILL NEW CONDUITS INTO EXISTING WETWELL. CONTRACTOR TO PATCH AND SEAL AROUND CONDUIT PENETRATIONS WITH NON-SHRINK GROUT AND SHALL PATCH INTERIOR LINER OF WETWELLS.

GROUNDING NOTES

1. CONTRACTOR SHALL PROVIDE GROUNDING COUNTERPOISE AROUND PLATFORM FOUNDATION PER SPECIFICATIONS (NOT SHOW ON PLANS).
   1.1. PROVIDE 4/0 AWG MAIN CONDUCTOR.
   1.2. BOND PLATFORM FRAME.
   1.3. PROVIDE GROUND ROD AT EACH CORNER.

N

0 5' 10' 20'

SCALE: 1" = 10'

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LIFT STATION 20
ELECTRICAL SITE PLAN
PROPOSED

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-132

Copyright: Tetra Tech

Bar Measures 1 inch

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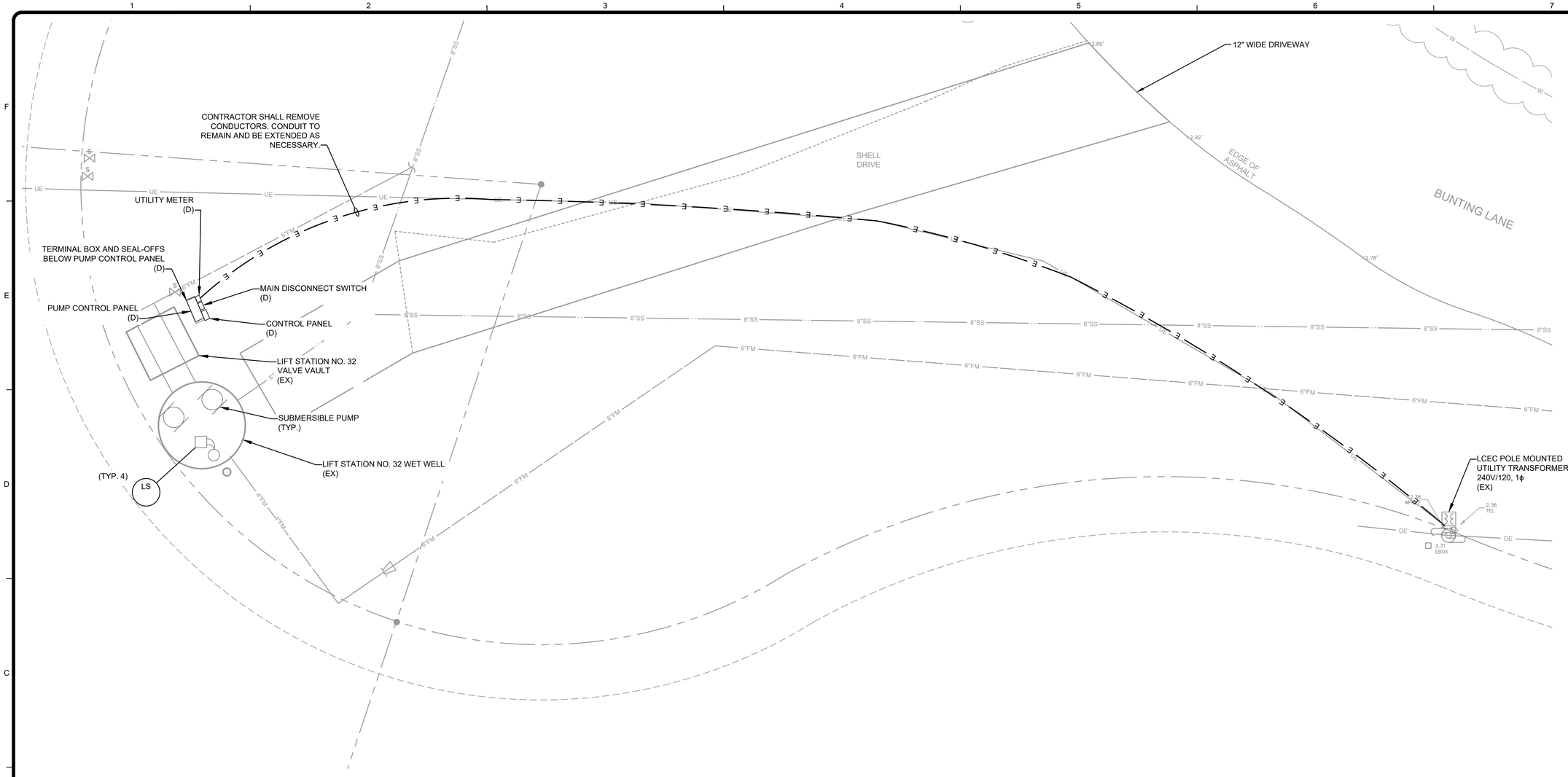

LIFT STATION 32
ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 6'

DEMOLITION LEGEND

- (EX) EXISTING TO REMAIN
- (RL) EXISTING TO BE RELOCATED
- (D) EXISTING TO BE REMOVED

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EQUIPMENT NOTED TO BE REMOVED. CONDUITS AND CONDUCTORS SHALL BE DISPOSED OF. CONDUITS BELOW GRADE MAY BE REUSED DURING PROPOSED WORK AS FEASIBLE BASED ON PROPOSED LAYOUT.
2. SEE DEMOLITION SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SUPPORT, POSTS, STRUT, RACKS.
4. CONTRACTOR TO REMOVE CONDUITS INTO WET WELL. PATCH PENETRATIONS WITH NON-SHRINK GROUT AND PATCH INTERIOR LINER.

0 3' 6' 12'

SCALE: 1" = 6'

Bar Measures 1 inch

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LIFT STATION 32
ELECTRICAL SITE PLAN
DEMOLITION

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-141

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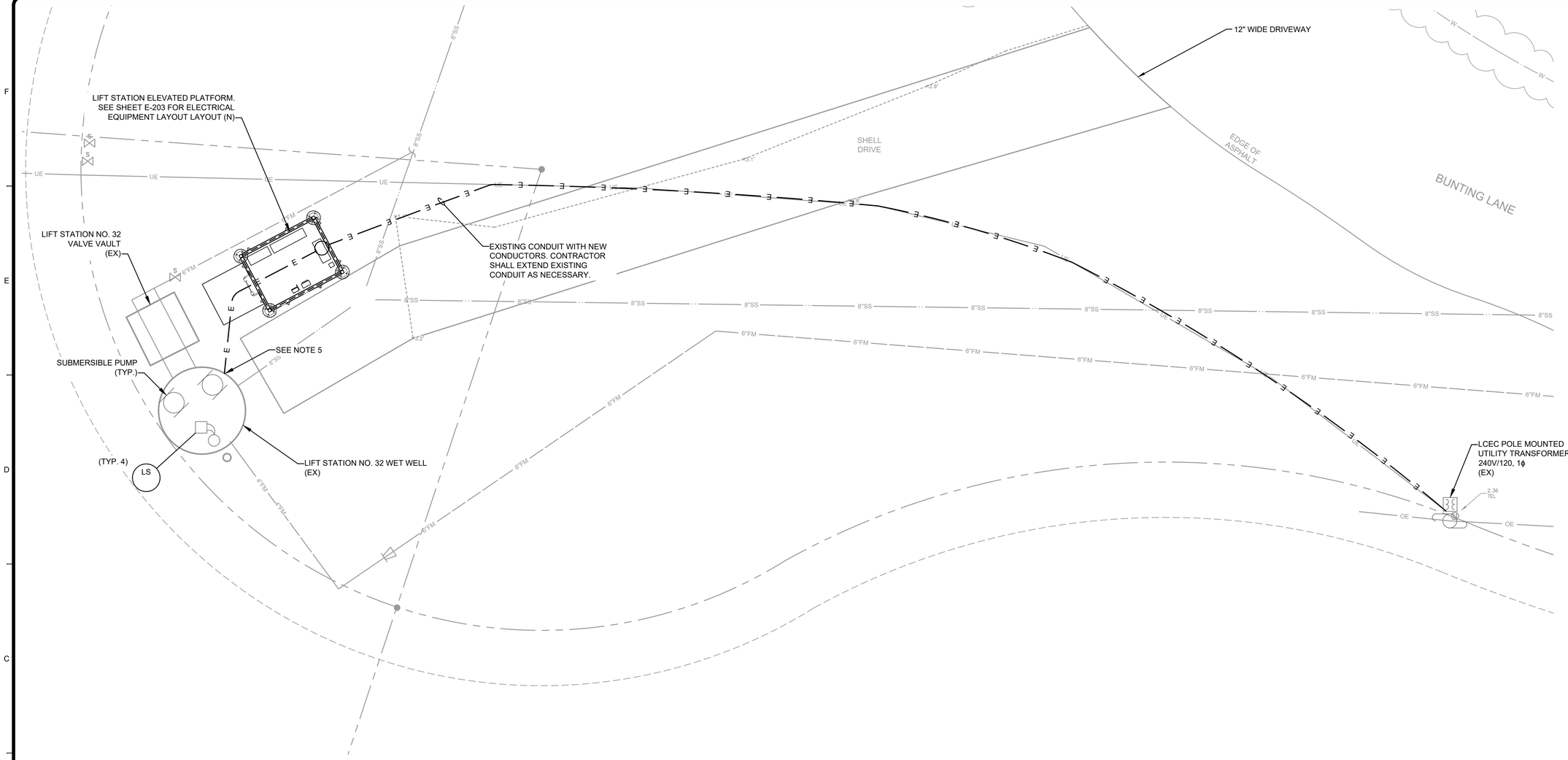

LIFT STATION 32
ELECTRICAL PROPOSED PLAN

SCALE: 1" = 6'

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

GENERAL PROPOSED NOTES

1. CONTRACTOR SHALL PROVIDE ELECTRICAL EQUIPMENT SHOWN AS NEW.
2. CONDUITS AND CONDUCTORS SHALL BE NEW UNLESS OTHERWISE NOTED.
3. SEE ELECTRICAL RACK LAYOUT AND PROPOSED SINGLE LINE DIAGRAM.
4. PROVIDE 3"X6" ALUMINUM CHANNEL AS NECESSARY TO MOUNT ELECTRICAL EQUIPMENT ON PLATFORM.
5. CONTRACTOR SHALL CORE-DRILL NEW CONDUITS INTO EXISTING WETWELL. CONTRACTOR TO PATCH AND SEAL AROUND CONDUIT PENETRATIONS WITH NON-SHRINK GROUT AND SHALL PATCH INTERIOR LINER OF WETWELLS.

GROUNDING NOTES

1. CONTRACTOR SHALL PROVIDE GROUNDING COUNTERPOISE AROUND PLATFORM FOUNDATION PER SPECIFICATIONS (NOT SHOW ON PLANS).
   1.1. PROVIDE 4/0 AWG MAIN CONDUCTOR.
   1.2. BOND PLATFORM FRAME.
   1.3. PROVIDE GROUND ROD AT EACH CORNER.

N

0 3' 6' 12'

SCALE: 1" = 6'

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 32
ELECTRICAL SITE PLAN
PROPOSED

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-142

Copyright: Tetra Tech

Bar Measures 1 inch

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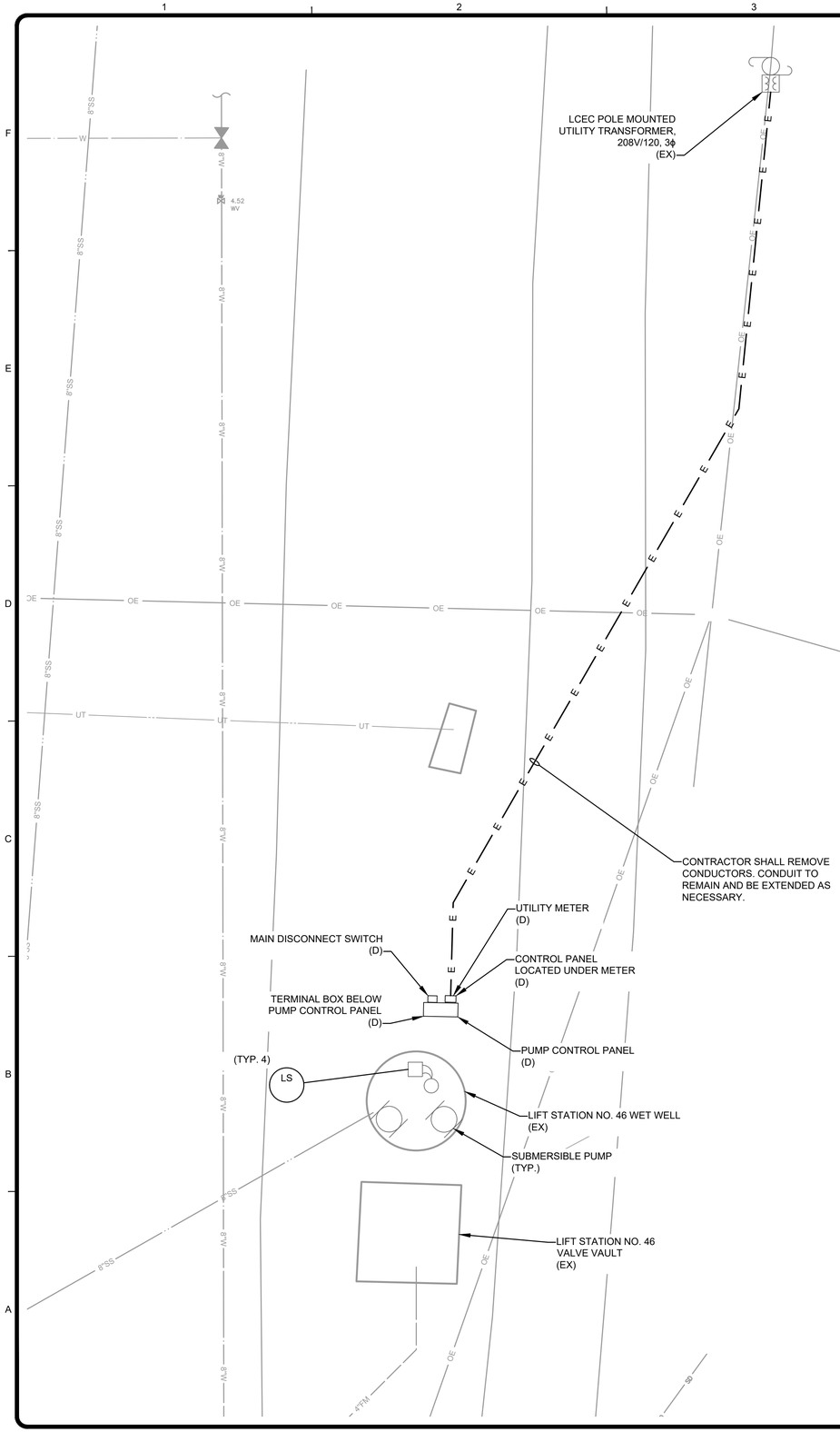

LIFT STATION 46
ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 5'

DEMOLITION LEGEND

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EQUIPMENT NOTED TO BE REMOVED. CONDUITS AND CONDUCTORS SHALL BE DISPOSED OF. CONDUITS BELOW GRADE MAY BE REUSED DURING PROPOSED WORK AS FEASIBLE BASED ON PROPOSED LAYOUT.
2. SEE DEMOLITION SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SUPPORT, POSTS, STRUT, RACKS.
4. CONTRACTOR TO REMOVE CONDUITS INTO WET WELL. PATCH PENETRATIONS WITH NON-SHRINK GROUT AND PATCH INTERIOR LINER.

N

0 2.5' 5' 10'

SCALE: 1" = 5'

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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 46
ELECTRICAL SITE PLAN
DEMOLITION

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-151

Copyright: Tetra Tech

Bar Measures 1 inch

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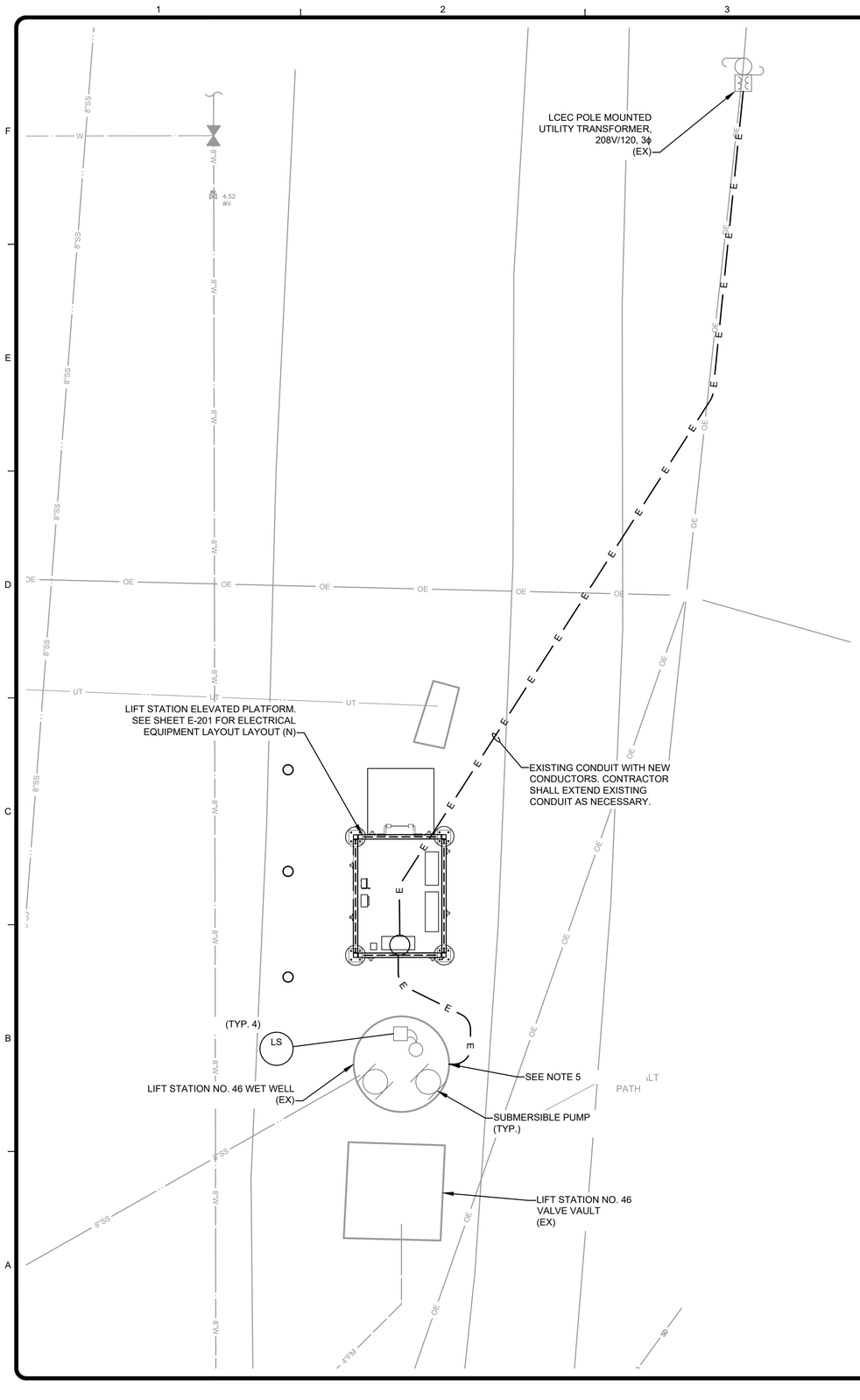

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

GENERAL PROPOSED NOTES

1. CONTRACTOR SHALL PROVIDE ELECTRICAL EQUIPMENT SHOWN AS NEW.
2. CONDUITS AND CONDUCTORS SHALL BE NEW UNLESS OTHERWISE NOTED.
3. SEE ELECTRICAL RACK LAYOUT AND PROPOSED SINGLE LINE DIAGRAM.
4. PROVIDE 3"X6" ALUMINUM CHANNEL AS NECESSARY TO MOUNT ELECTRICAL EQUIPMENT ON PLATFORM.
5. CONTRACTOR SHALL CORE-DRILL NEW CONDUITS INTO EXISTING WETWELL. CONTRACTOR TO PATCH AND SEAL AROUND CONDUIT PENETRATIONS WITH NON-SHRINK GROUT AND SHALL PATCH INTERIOR LINER OF WETWELLS.

GROUNDING NOTES

1. CONTRACTOR SHALL PROVIDE GROUNDING COUNTERPOISE AROUND PLATFORM FOUNDATION PER SPECIFICATIONS (NOT SHOW ON PLANS).
   1.1. PROVIDE 4/0 AWG MAIN CONDUCTOR.
   1.2. BOND PLATFORM FRAME.
   1.3. PROVIDE GROUND ROD AT EACH CORNER.

LIFT STATION 46
ELECTRICAL PROPOSED PLAN

SCALE: 1" = 5'

N

0 2.5' 5' 10'

SCALE: 1" = 5'

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LIFT STATION 46
ELECTRICAL SITE PLAN
PROPOSED

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-152

Copyright: Tetra Tech

Bar Measures 1 inch

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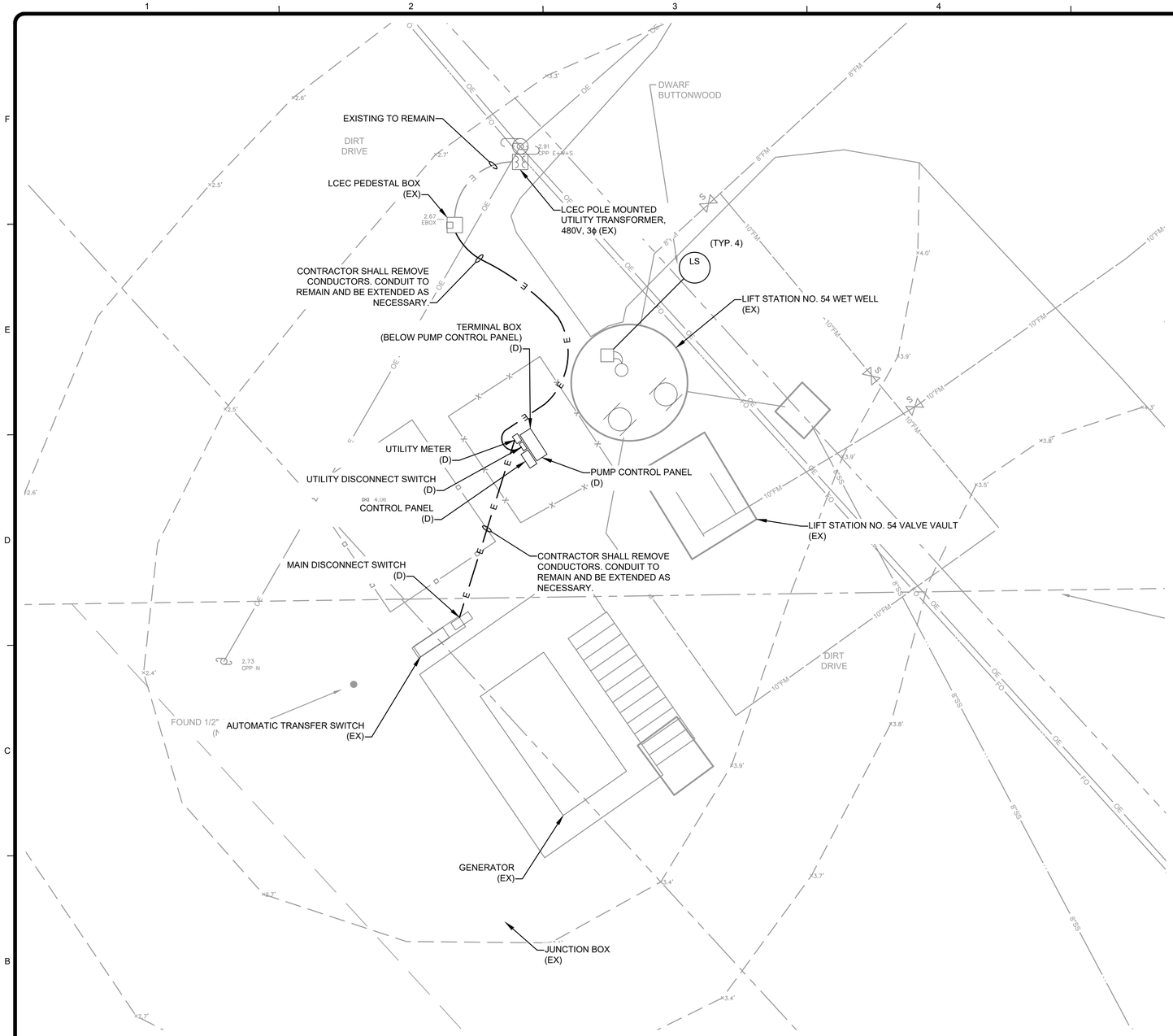

LIFT STATION 54
ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 5'

DEMOLITION LEGEND

- (EX) EXISTING TO REMAIN
- (RL) EXISTING TO BE RELOCATED
- (D) EXISTING TO BE REMOVED

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EQUIPMENT NOTED TO BE REMOVED. CONDUITS AND CONDUCTORS SHALL BE DISPOSED OF. CONDUITS BELOW GRADE MAY BE REUSED DURING PROPOSED WORK AS FEASIBLE BASED ON PROPOSED LAYOUT.
2. SEE DEMOLITION SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SUPPORT, POSTS, STRUT, RACKS.
4. CONTRACTOR TO REMOVE CONDUITS INTO WET WELL. PATCH PENETRATIONS WITH NON-SHRINK GROUT AND PATCH INTERIOR LINER.

0 2.5' 5' 10'
SCALE: 1" = 5'

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THE CITY OF SANIBEL
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LIFT STATION 54
ELECTRICAL SITE PLAN DEMOLITION

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-161

Copyright: Tetra Tech

Bar Measures 1 inch

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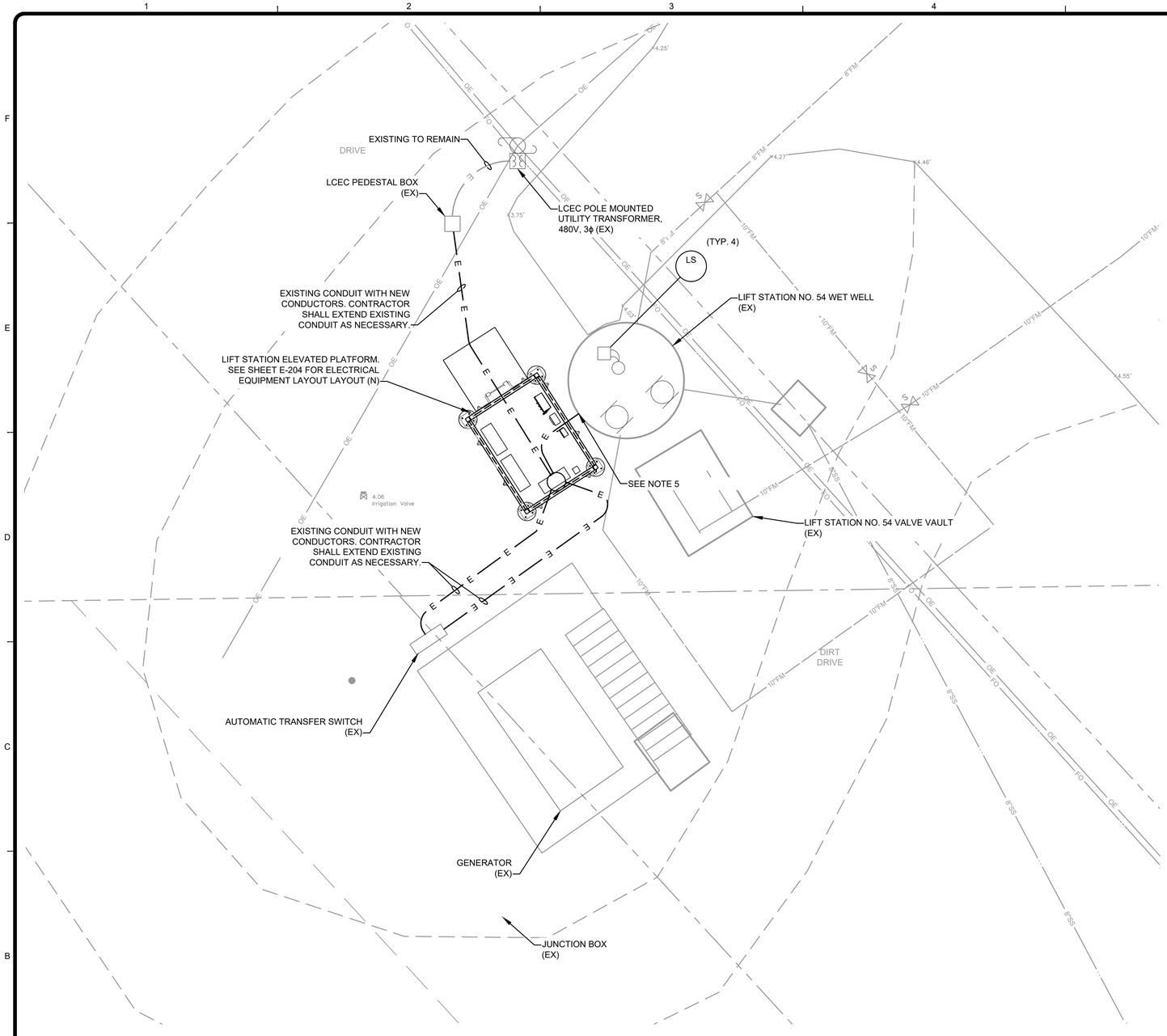

LIFT STATION 54
ELECTRICAL PROPOSED PLAN

SCALE: 1" = 5'

PROPOSED LEGEND

- (EX) EXISTING
- (RL) EXISTING RELOCATED
- (N) NEW

GENERAL PROPOSED NOTES

1. CONTRACTOR SHALL PROVIDE ELECTRICAL EQUIPMENT SHOWN AS NEW.
2. CONDUITS AND CONDUCTORS SHALL BE NEW UNLESS OTHERWISE NOTED.
3. SEE ELECTRICAL RACK LAYOUT AND PROPOSED SINGLE LINE DIAGRAM.
4. PROVIDE 3"X6" ALUMINUM CHANNEL AS NECESSARY TO MOUNT ELECTRICAL EQUIPMENT ON PLATFORM.
5. CONTRACTOR SHALL CORE-DRILL NEW CONDUITS INTO EXISTING WETWELL. CONTRACTOR TO PATCH AND SEAL AROUND CONDUIT PENETRATIONS WITH NON-SHRINK GROUT AND SHALL PATCH INTERIOR LINER OF WETWELLS.

GROUNDING NOTES

1. CONTRACTOR SHALL PROVIDE GROUNDING COUNTERPOISE AROUND PLATFORM FOUNDATION PER SPECIFICATIONS (NOT SHOW ON PLANS).
   - 1.1. PROVIDE 4/0 AWG MAIN CONDUCTOR.
   - 1.2. BOND PLATFORM FRAME.
   - 1.3. PROVIDE GROUND ROD AT EACH CORNER.

N

0 2.5' 5' 10'

SCALE: 1" = 5'

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THE CITY OF SANIBEL

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LIFT STATION 54
ELECTRICAL SITE PLAN
PROPOSED

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-162

Copyright: Tetra Tech

Bar Measures 1 inch

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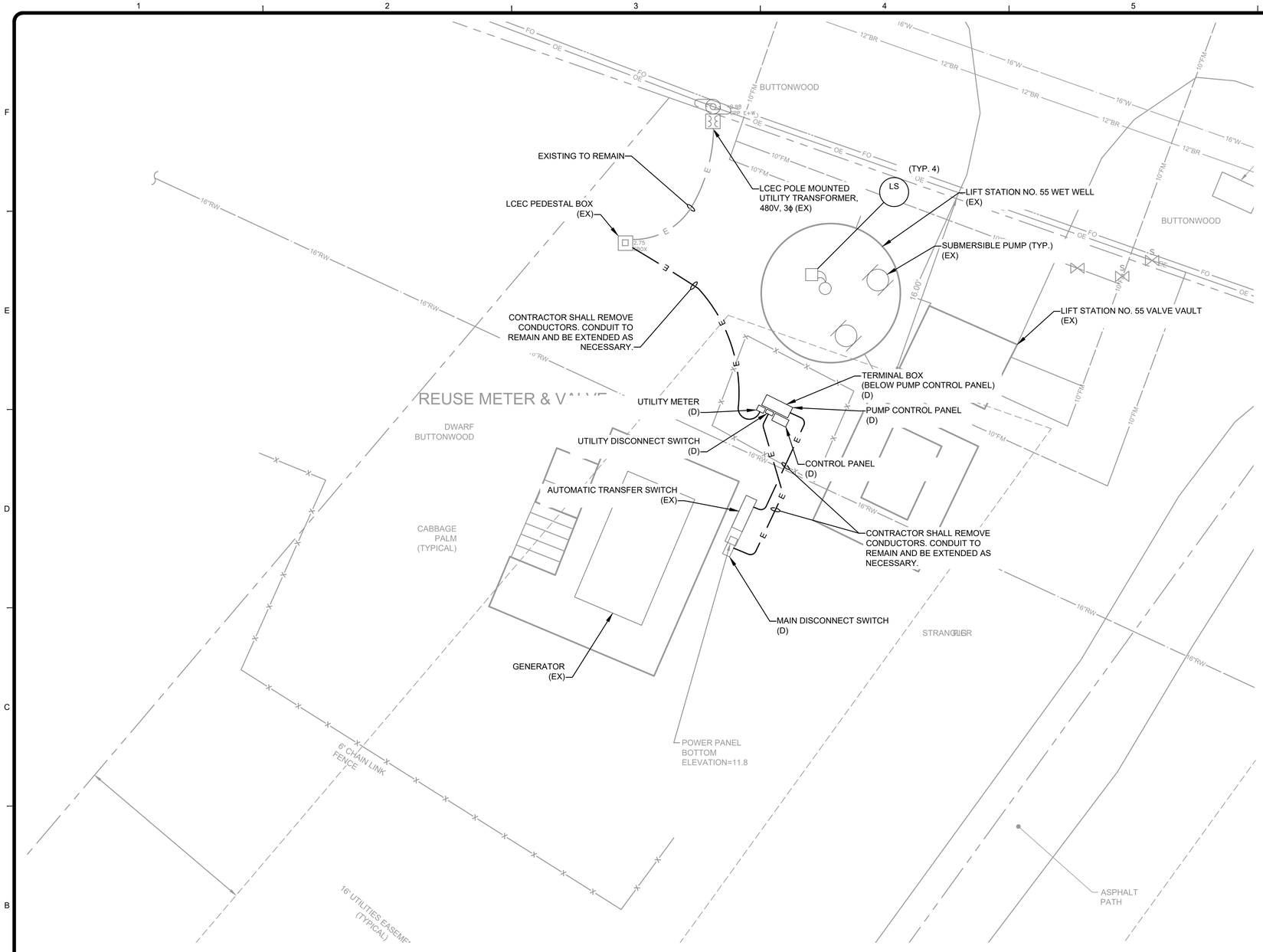

LIFT STATION 55
ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 5'

0 2.5' 5' 10'

SCALE: 1" = 5'

DEMOLITION LEGEND

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EQUIPMENT NOTED TO BE REMOVED. CONDUITS AND CONDUCTORS SHALL BE DISPOSED OF. CONDUITS BELOW GRADE MAY BE REUSED DURING PROPOSED WORK AS FEASIBLE BASED ON PROPOSED LAYOUT.
2. SEE DEMOLITION SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SUPPORT, POSTS, STRUT, RACKS.
4. CONTRACTOR TO REMOVE CONDUITS INTO WET WELL. PATCH PENETRATIONS WITH NON-SHRINK GROUT AND PATCH INTERIOR LINER.

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LIFT STATION 55
ELECTRICAL SITE PLAN
DEMOLITION

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-171

Copyright: Tetra Tech

Bar Measures 1 inch

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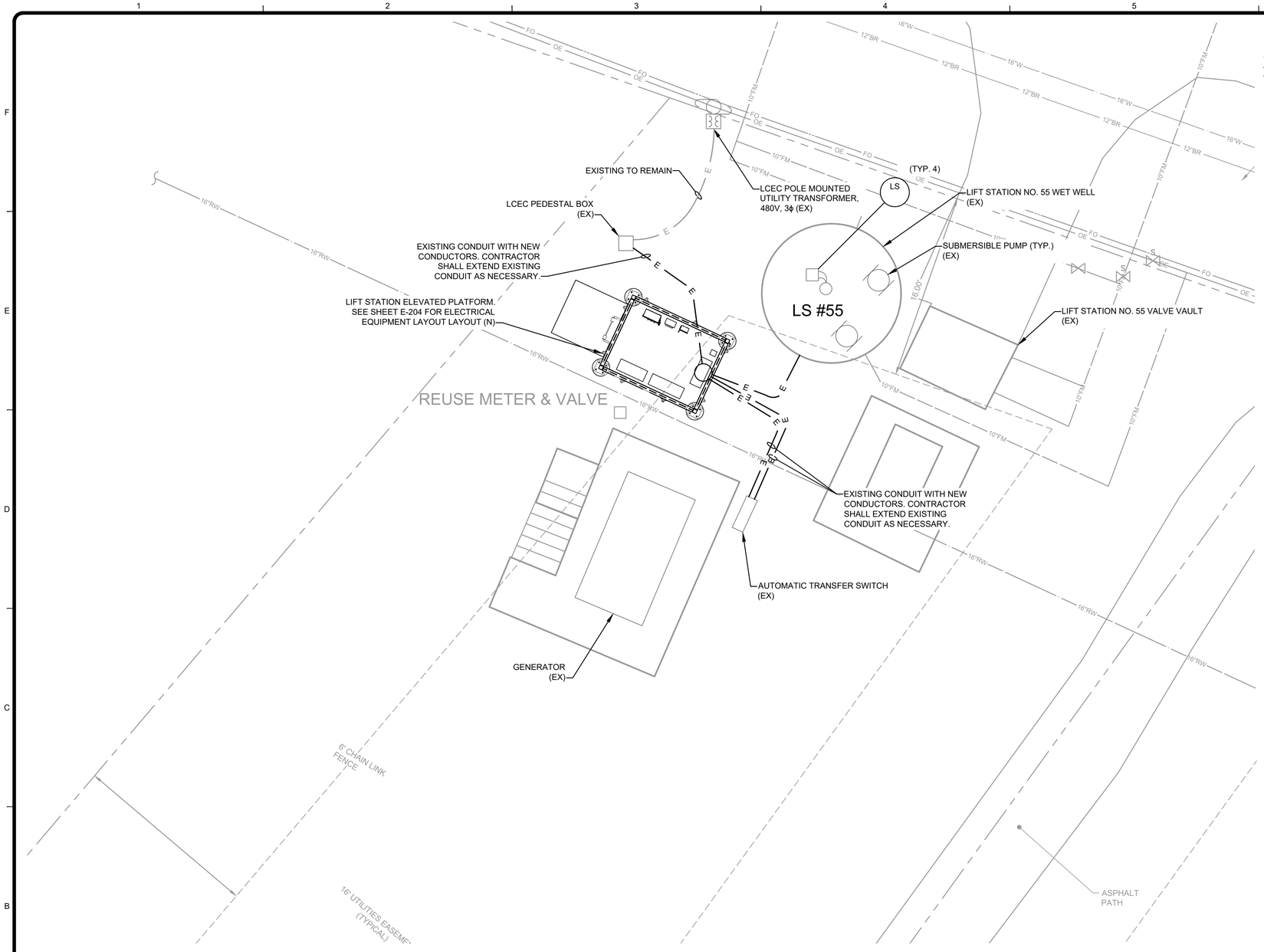

LIFT STATION 55
ELECTRICAL PROPOSED PLAN

SCALE: 1" = 5'

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

GENERAL PROPOSED NOTES

1. CONTRACTOR SHALL PROVIDE ELECTRICAL EQUIPMENT SHOWN AS NEW.
2. CONDUITS AND CONDUCTORS SHALL BE NEW UNLESS OTHERWISE NOTED.
3. SEE ELECTRICAL RACK LAYOUT AND PROPOSED SINGLE LINE DIAGRAM.
4. PROVIDE 3"X6" ALUMINUM CHANNEL AS NECESSARY TO MOUNT ELECTRICAL EQUIPMENT ON PLATFORM.

GROUNDING NOTES

1. CONTRACTOR SHALL PROVIDE GROUNDING COUNTERPOISE AROUND PLATFORM FOUNDATION PER SPECIFICATIONS (NOT SHOW ON PLANS).
   1.1. PROVIDE 4/0 AWG MAIN CONDUCTOR.
   1.2. BOND PLATFORM FRAME.
   1.3. PROVIDE GROUND ROD AT EACH CORNER.

N

0 2.5' 5' 10'
SCALE: 1" = 5'

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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 55
ELECTRICAL SITE PLAN
PROPOSED

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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Bar Measures 1 inch

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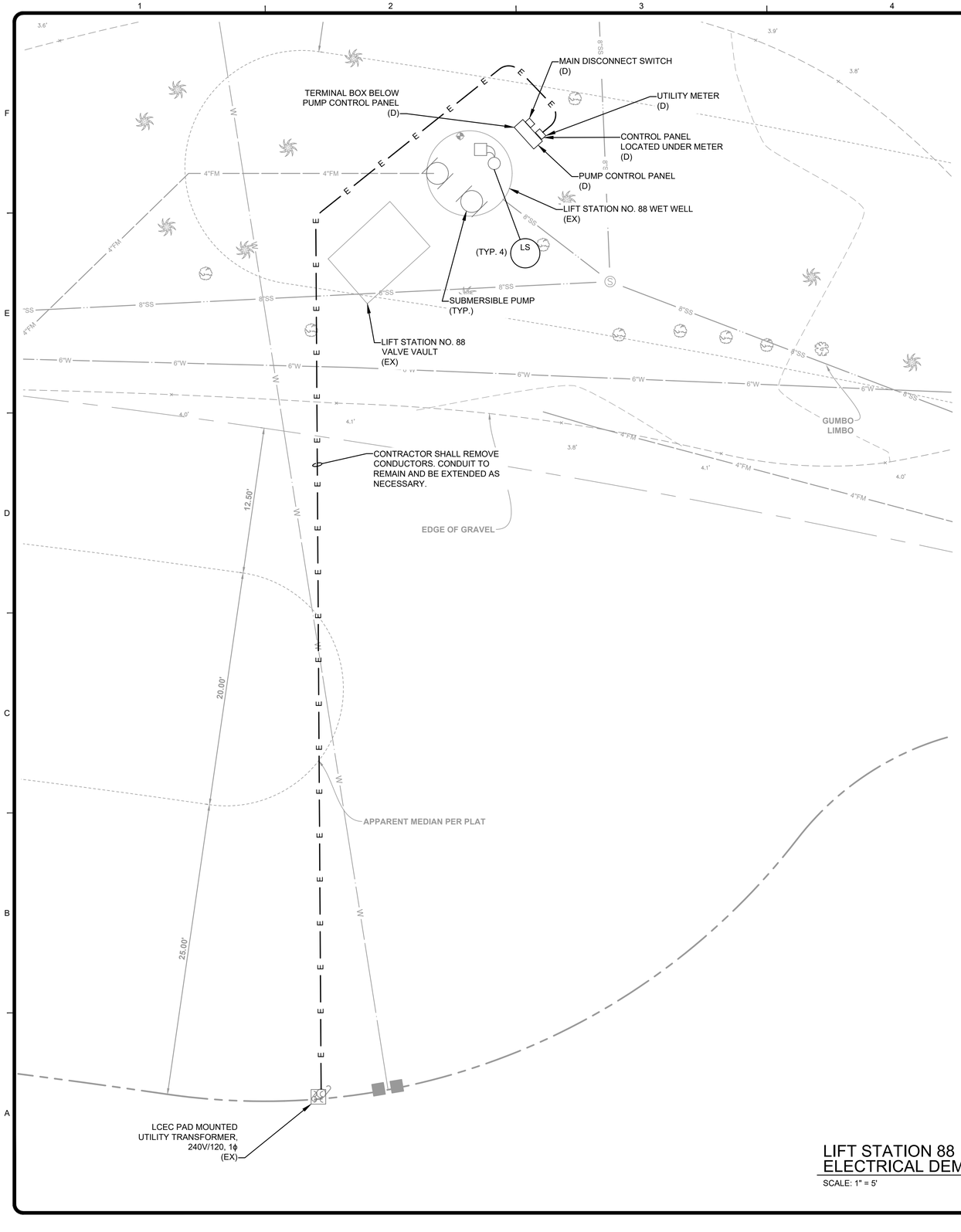

LIFT STATION 88
ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 5'

DEMOLITION LEGEND

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EQUIPMENT NOTED TO BE REMOVED. CONDUITS AND CONDUCTORS SHALL BE DISPOSED OF. CONDUITS BELOW GRADE MAY BE REUSED DURING PROPOSED WORK AS FEASIBLE BASED ON PROPOSED LAYOUT.
2. SEE DEMOLITION SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SUPPORT, POSTS, STRUT, RACKS.
4. CONTRACTOR TO REMOVE CONDUITS INTO WET WELL. PATCH PENETRATIONS WITH NON-SHRINK GROUT AND PATCH INTERIOR LINER.

0 2.5' 5' 10'
SCALE: 1" = 5'

Bar Measures 1 inch

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LS 88 EXISTING CONDITIONS W/ PROPOSED PLATFORM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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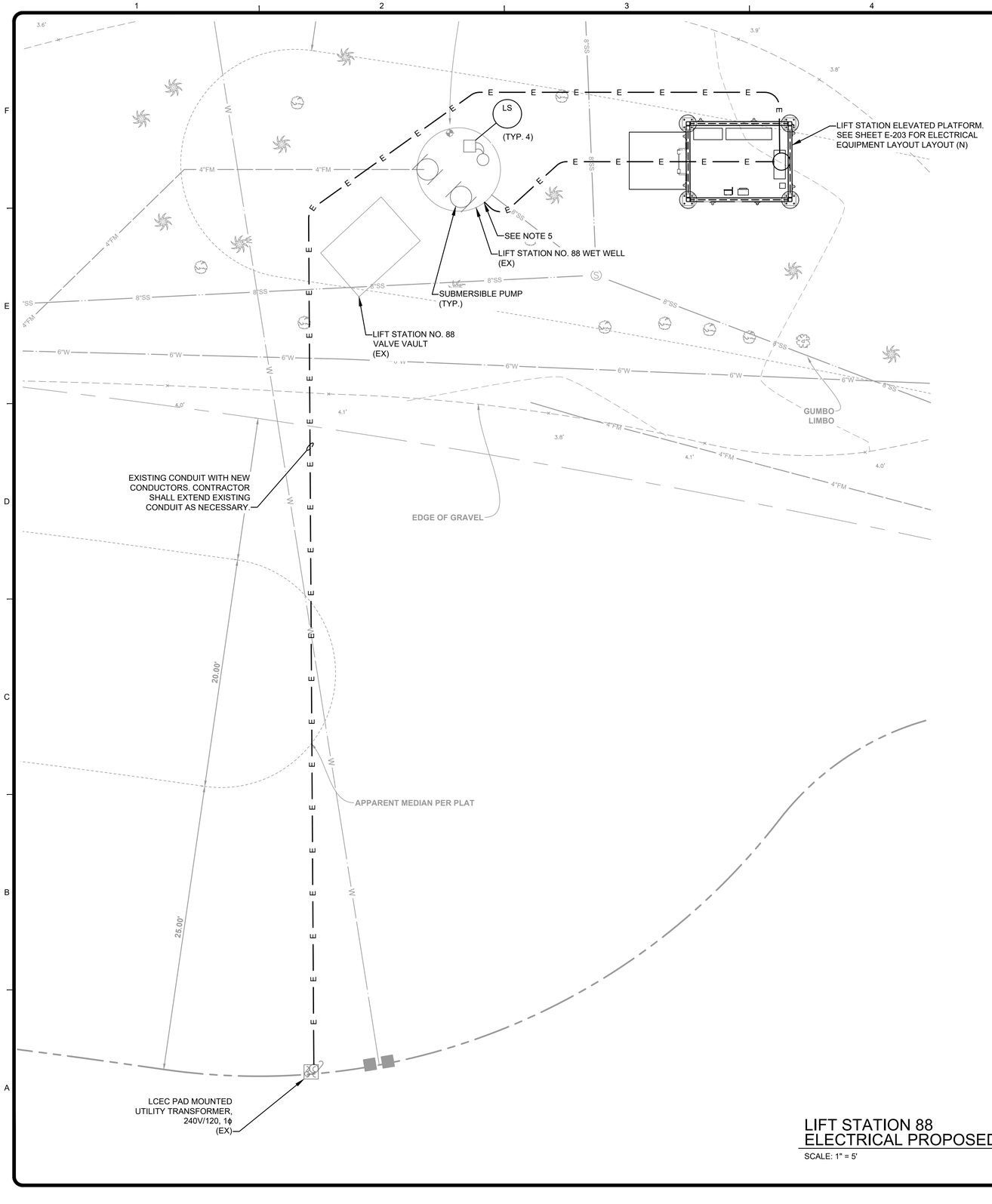

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

GENERAL PROPOSED NOTES

1. CONTRACTOR SHALL PROVIDE ELECTRICAL EQUIPMENT SHOWN AS NEW.
2. CONDUITS AND CONDUCTORS SHALL BE NEW UNLESS OTHERWISE NOTED.
3. SEE ELECTRICAL RACK LAYOUT AND PROPOSED SINGLE LINE DIAGRAM.
4. PROVIDE 3"X6" ALUMINUM CHANNEL AS NECESSARY TO MOUNT ELECTRICAL EQUIPMENT ON PLATFORM.
5. CONTRACTOR SHALL CORE-DRILL NEW CONDUITS INTO EXISTING WETWELL. CONTRACTOR TO PATCH AND SEAL AROUND CONDUIT PENETRATIONS WITH NON-SHRINK GROUT AND SHALL PATCH INTERIOR LINER OF WETWELLS.

GROUNDING NOTES

1. CONTRACTOR SHALL PROVIDE GROUNDING COUNTERPOISE AROUND PLATFORM FOUNDATION PER SPECIFICATIONS (NOT SHOW ON PLANS).
   1.1. PROVIDE 4/0 AWG MAIN CONDUCTOR.
   1.2. BOND PLATFORM FRAME.
   1.3. PROVIDE GROUND ROD AT EACH CORNER.

LIFT STATION 88
ELECTRICAL PROPOSED PLAN

SCALE: 1" = 5'

0 2.5' 5' 10'
SCALE: 1" = 5'

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LS 88 EXISTING CONDITIONS W/ PROPOSED PLATFORM

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Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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Bar Measures 1 inch

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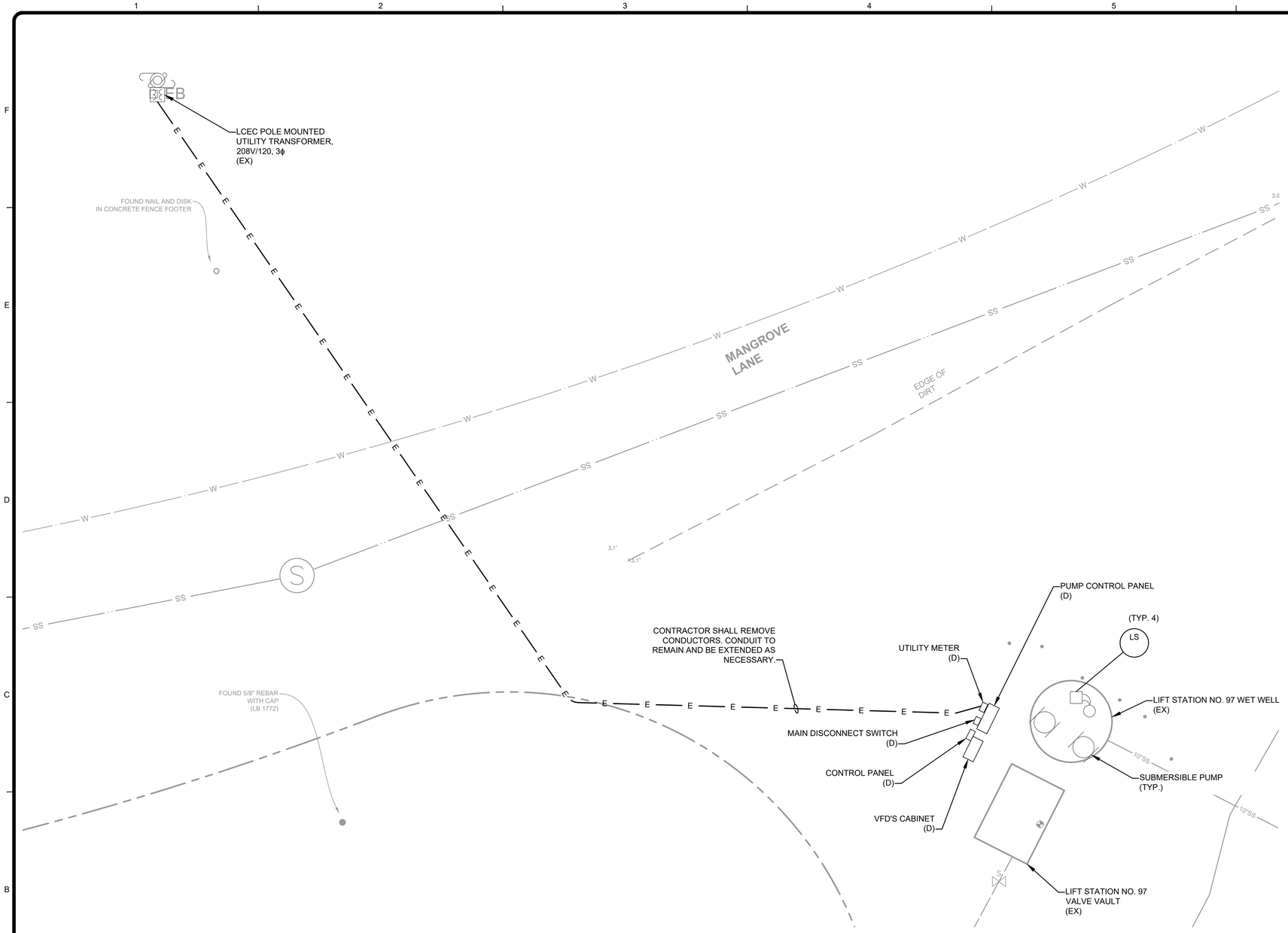

DEMOLITION LEGEND

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

GENERAL DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EQUIPMENT NOTED TO BE REMOVED. CONDUITS AND CONDUCTORS SHALL BE DISPOSED OF. CONDUITS BELOW GRADE MAY BE REUSED DURING PROPOSED WORK AS FEASIBLE BASED ON PROPOSED LAYOUT.
2. SEE DEMOLITION SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
3. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT SUPPORT, POSTS, STRUT, RACKS.
4. CONTRACTOR TO REMOVE CONDUITS INTO WET WELL. PATCH PENETRATIONS WITH NON-SHRINK GROUT AND PATCH INTERIOR LINER.

LIFT STATION 97
ELECTRICAL DEMOLITION PLAN

SCALE: 1" = 5'

0 2.5' 5' 10'
SCALE: 1" = 5'

Bar Measures 1 inch

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LIFT STATION 97
ELECTRICAL SITE PLAN
DEMOLITION

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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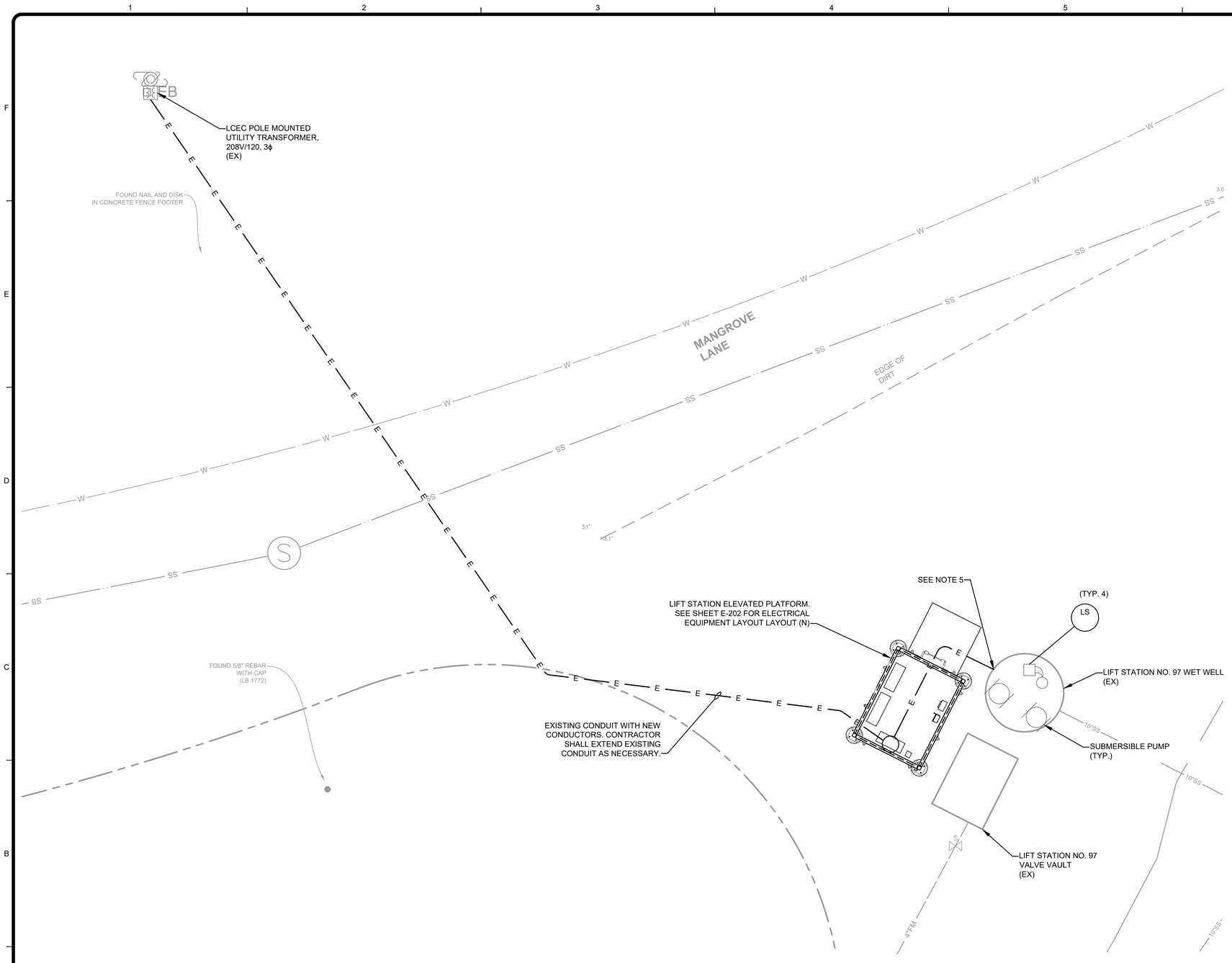

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

GENERAL PROPOSED NOTES

1. CONTRACTOR SHALL PROVIDE ELECTRICAL EQUIPMENT SHOWN AS NEW.
2. CONDUITS AND CONDUCTORS SHALL BE NEW UNLESS OTHERWISE NOTED.
3. SEE ELECTRICAL RACK LAYOUT AND PROPOSED SINGLE LINE DIAGRAM.
4. PROVIDE 3"X6" ALUMINUM CHANNEL AS NECESSARY TO MOUNT ELECTRICAL EQUIPMENT ON PLATFORM.
5. CONTRACTOR SHALL CORE-DRILL NEW CONDUITS INTO EXISTING WETWELL. CONTRACTOR TO PATCH AND SEAL AROUND CONDUIT PENETRATIONS WITH NON-SHRINK GROUT AND SHALL PATCH INTERIOR LINER OF WETWELLS.

GROUNDING NOTES

1. CONTRACTOR SHALL PROVIDE GROUNDING COUNTERPOISE AROUND PLATFORM FOUNDATION PER SPECIFICATIONS (NOT SHOW ON PLANS).
   1.1. PROVIDE 4/0 AWG MAIN CONDUCTOR.
   1.2. BOND PLATFORM FRAME.
   1.3. PROVIDE GROUND ROD AT EACH CORNER.

LIFT STATION 97
ELECTRICAL PROPOSED PLAN

SCALE: 1" = 5'

0 2.5' 5' 10'
SCALE: 1" = 5'

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LIFT STATION 97
ELECTRICAL SITE PLAN
PROPOSED

Project No.:	200-08498-24002
Designed By:	JAS
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Checked By:	JDM

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Bar Measures 1 inch

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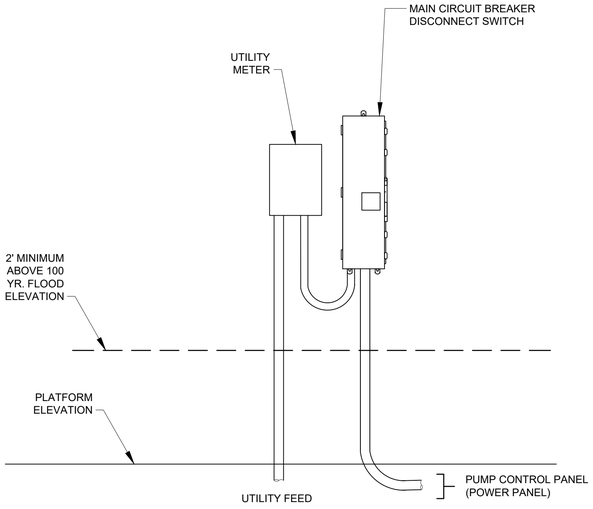
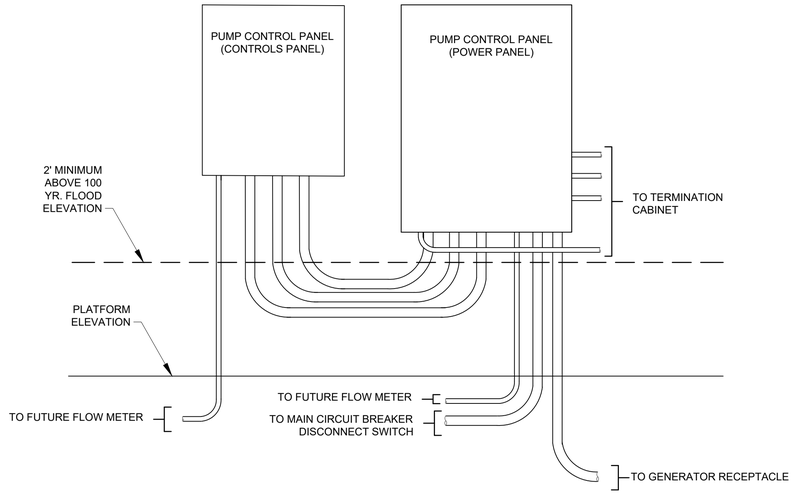
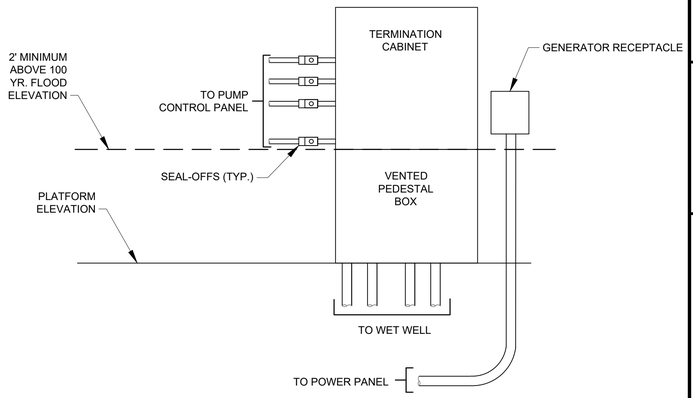


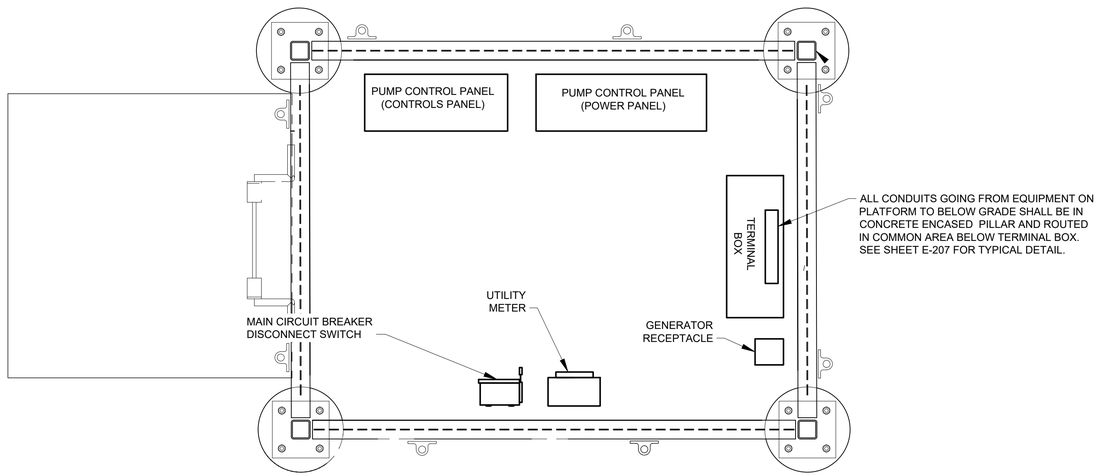




ORIENTATION A
ELECTRICAL RACK LAYOUT

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-14, LS-46.



ORIENTATION A
ELECTRICAL PLAN VIEW

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-14, LS-46.

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ELECTRICAL RACK LAYOUT
ORIENTATION A

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-201
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Bar Measures 1 inch

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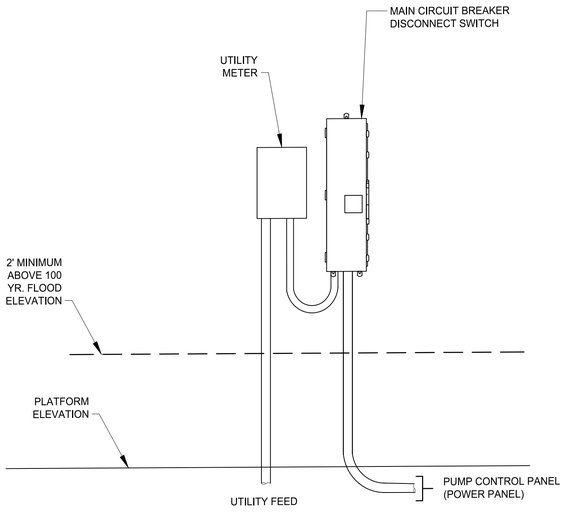
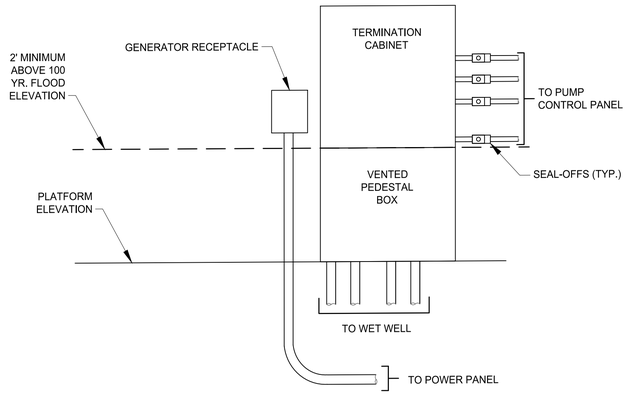
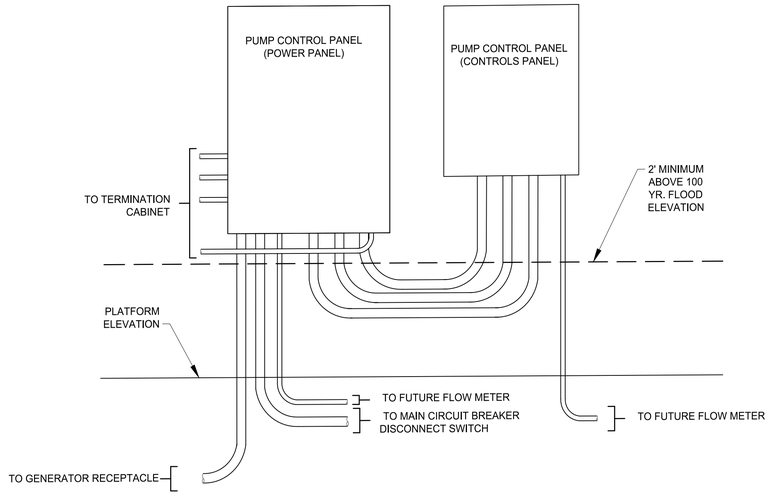


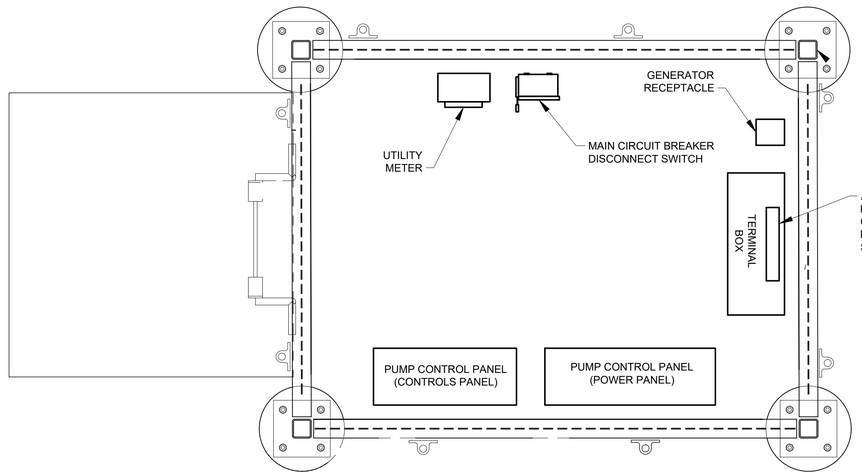


ORIENTATION B
ELECTRICAL RACK LAYOUT

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-20, LS-97.





ORIENTATION B
ELECTRICAL PLAN VIEW

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-20, LS-97.

SCALE: 3/4" = 1'-0"

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ELECTRICAL RACK LAYOUT ORIENTATION B

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Drawn By:	JAS
Checked By:	JDM

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Bar Measures 1 inch

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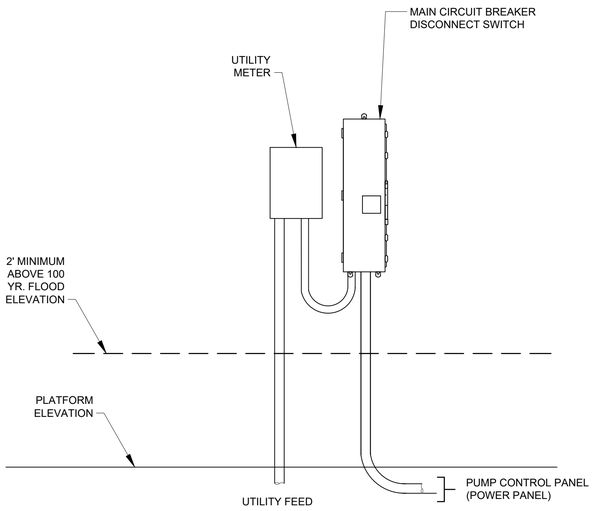
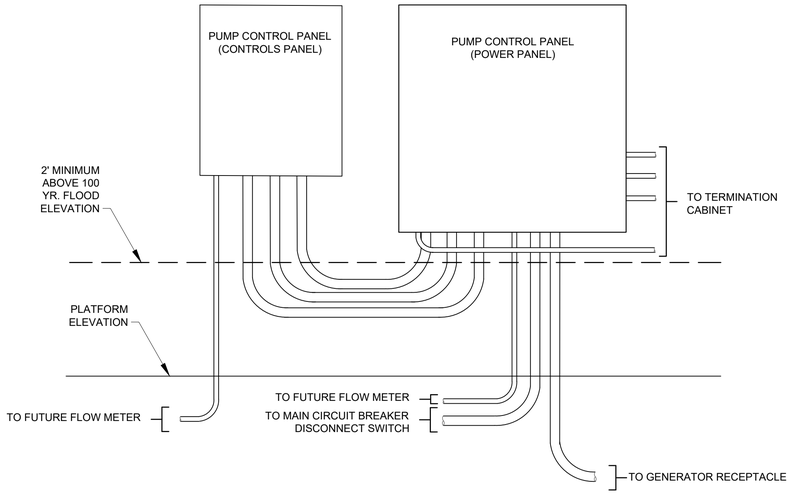
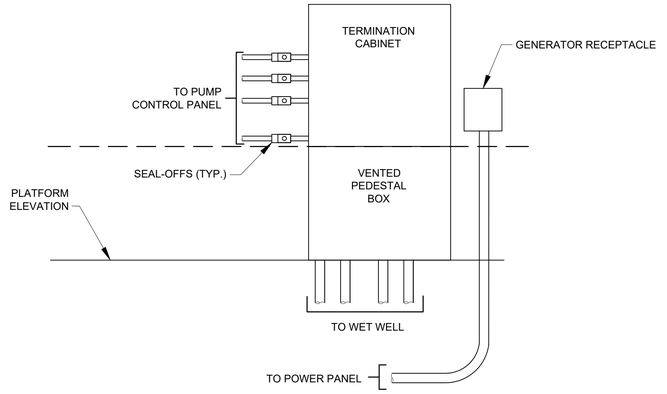


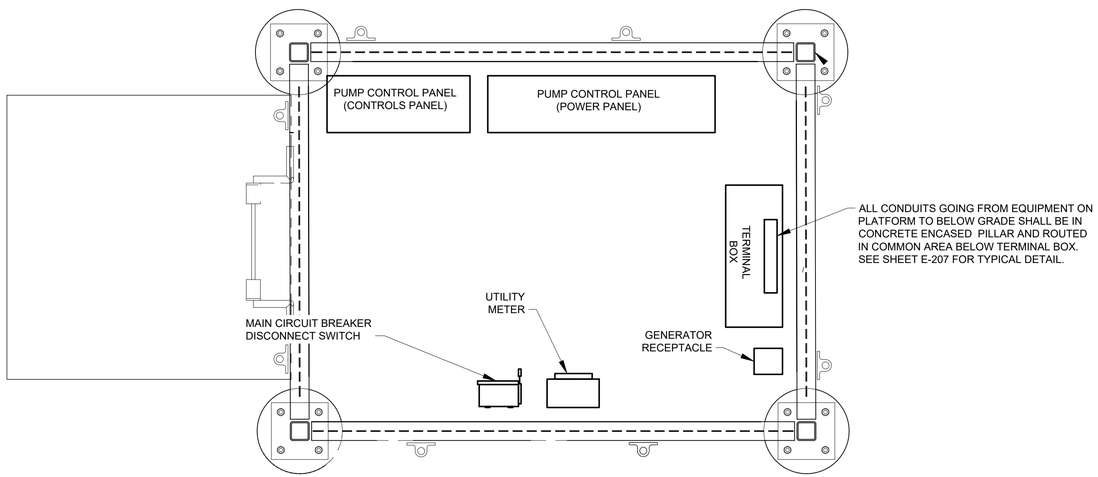




ORIENTATION C
ELECTRICAL RACK LAYOUT

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-32, LS-88.



ORIENTATION C
ELECTRICAL PLAN VIEW

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-32, LS-88.

0 1' 2' 4'
SCALE: 3/4" = 1'-0"

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ELECTRICAL RACK LAYOUT ORIENTATION C

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Drawn By:	JAS
Checked By:	JDM

E-203
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Bar Measures 1 inch

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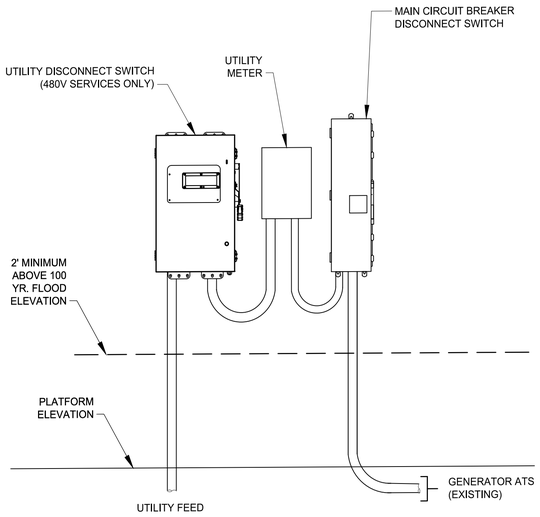
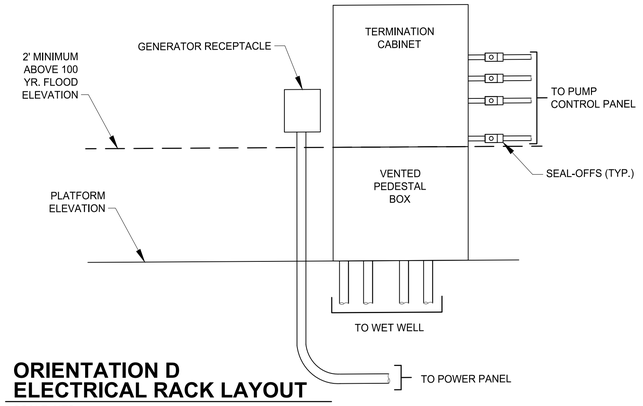
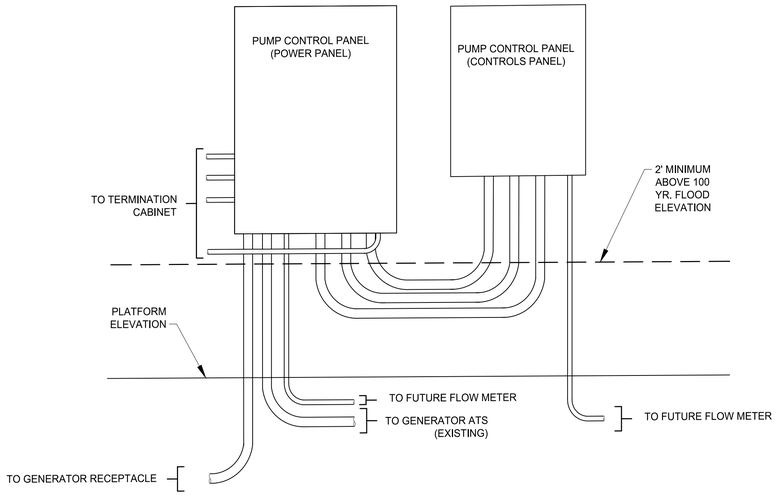


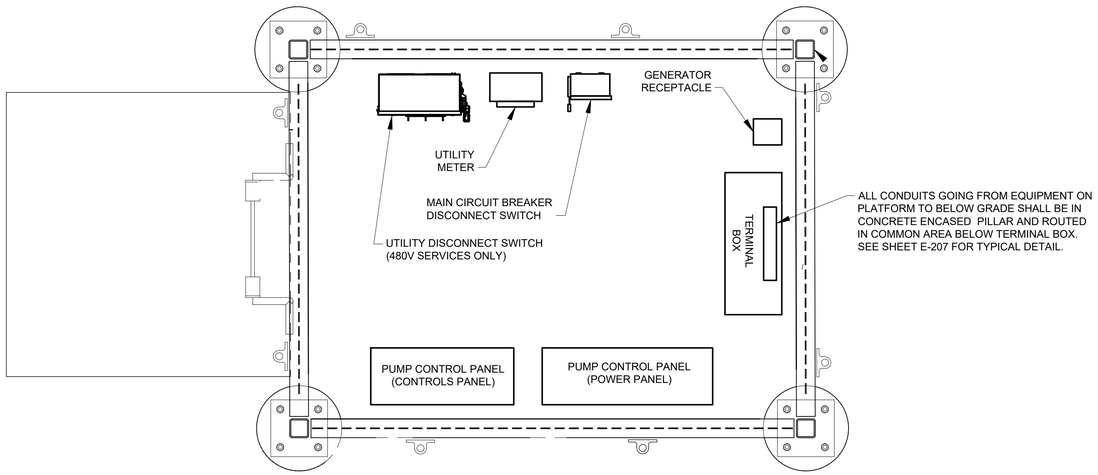


ORIENTATION D
ELECTRICAL RACK LAYOUT

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-54, LS-55





ORIENTATION D
ELECTRICAL PLAN VIEW

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-54, LS-55

0 1' 2' 4'
SCALE: 3/4" = 1'-0"

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

ELECTRICAL RACK LAYOUT ORIENTATION D

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-204
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Bar Measures 1 inch

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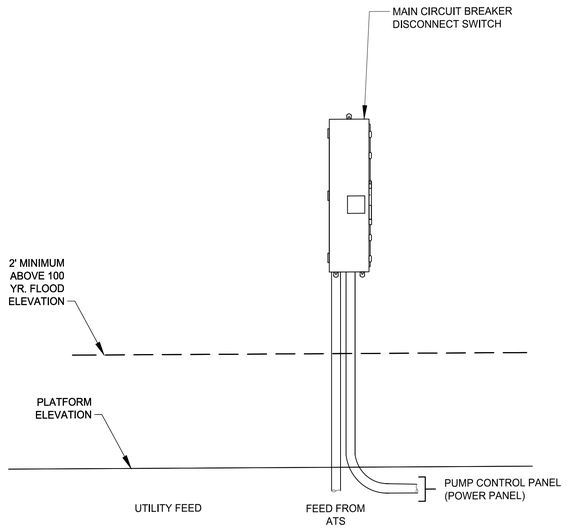
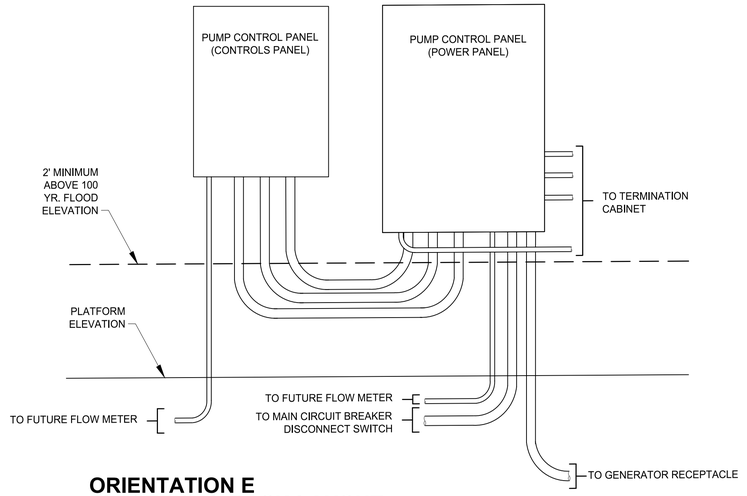
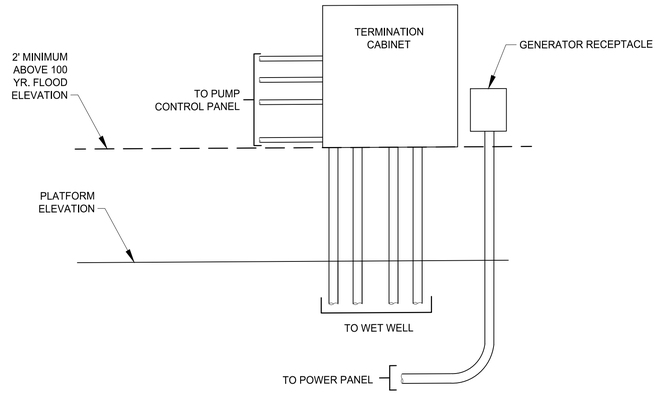


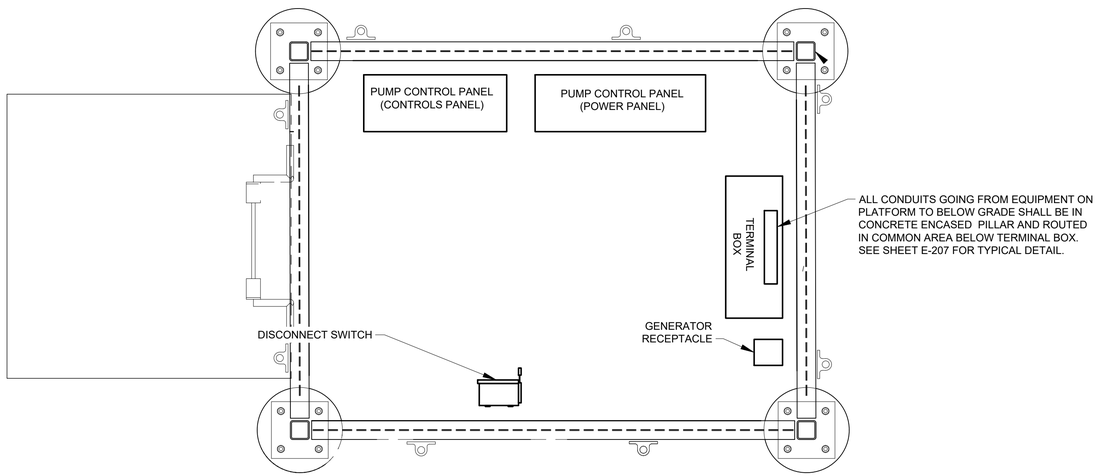


ORIENTATION E
ELECTRICAL RACK LAYOUT

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-5





ORIENTATION E
ELECTRICAL PLAN VIEW

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-5

SCALE: 3/4" = 1'-0"

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

ELECTRICAL RACK LAYOUT ORIENTATION E

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-205
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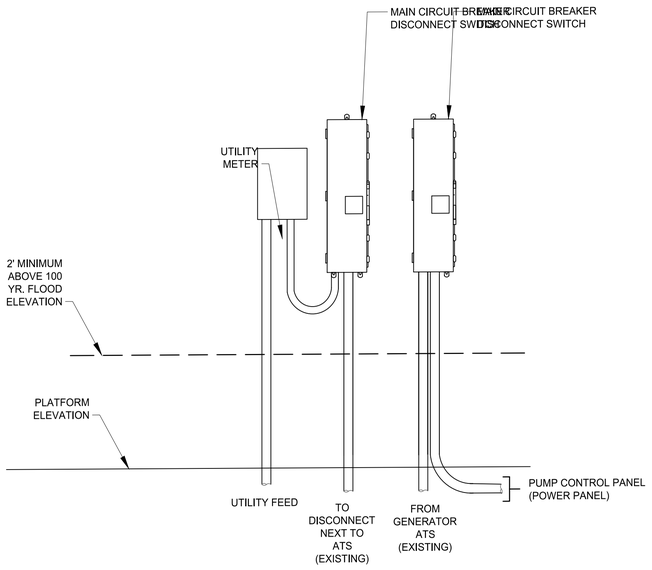
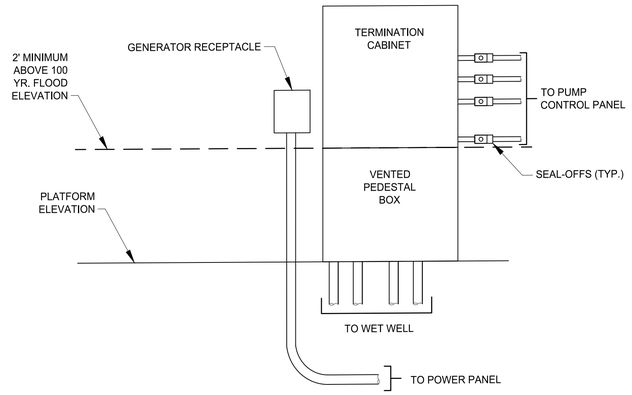
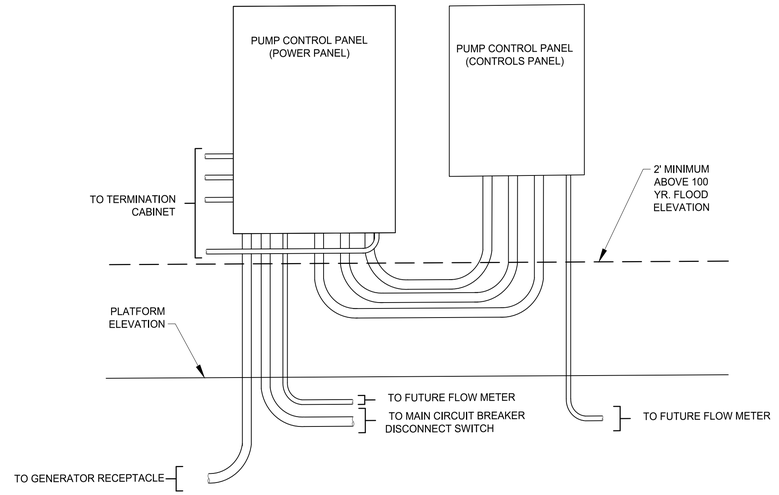


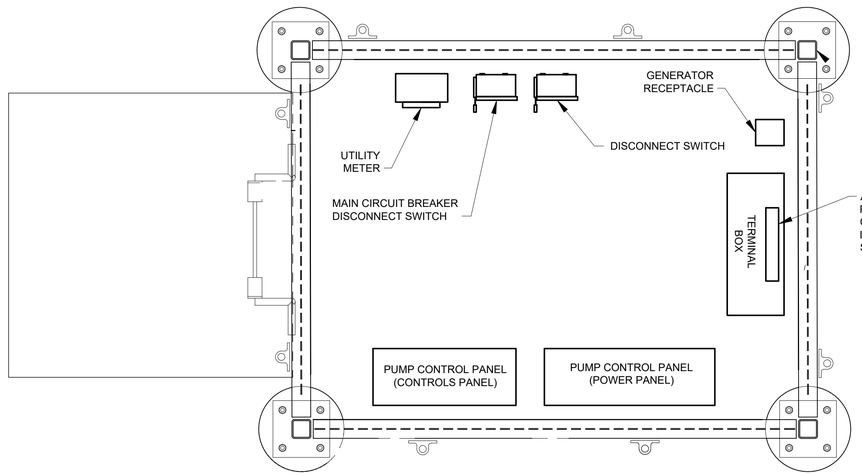




ORIENTATION F
ELECTRICAL RACK LAYOUT

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-17



ORIENTATION F
ELECTRICAL PLAN VIEW

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-17

SCALE: 3/4" = 1'-0"

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

ELECTRICAL RACK LAYOUT ORIENTATION F

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-206
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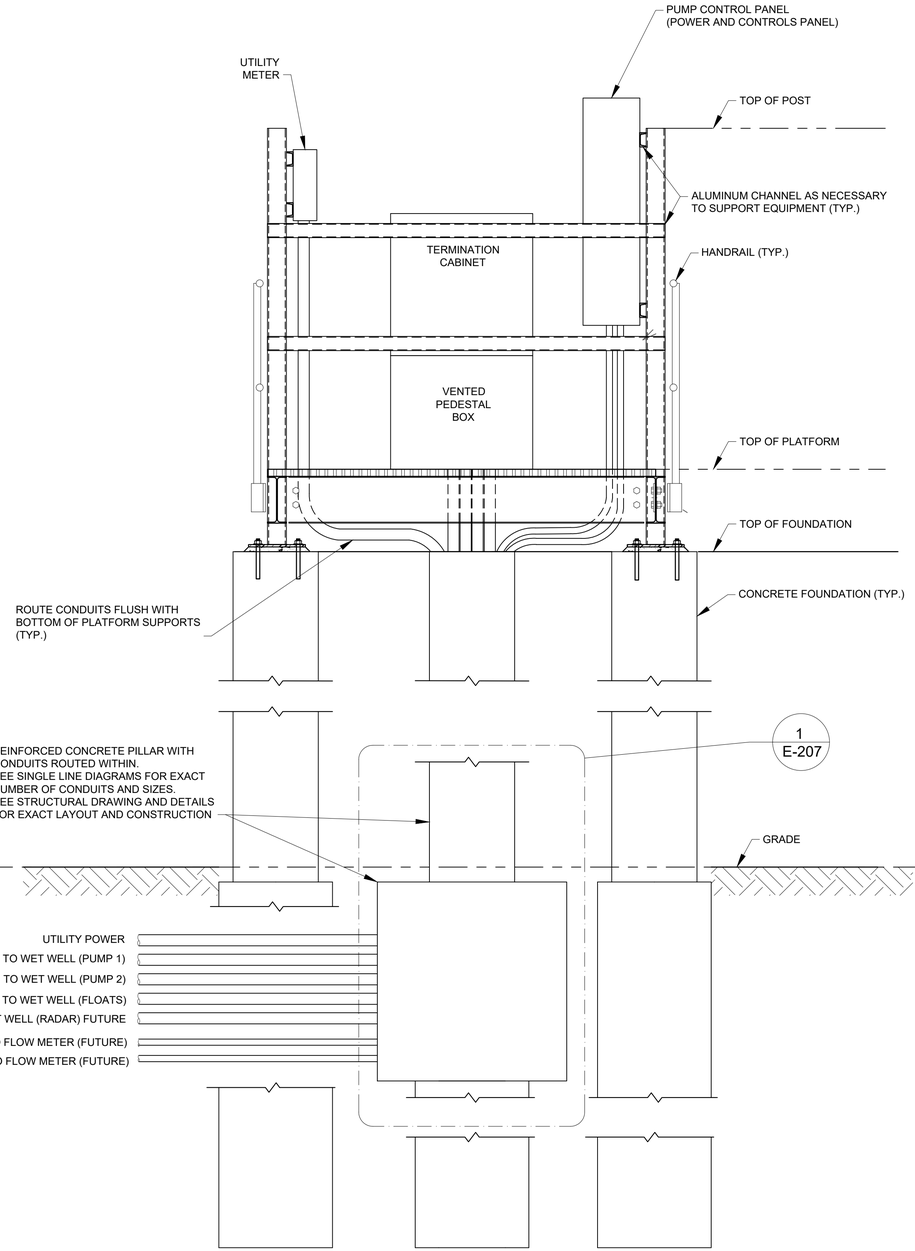
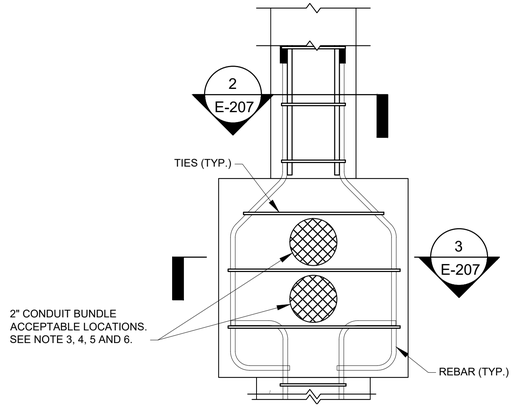


ELEVATED PLATFORM
CONDUIT CONCRETE ENCASEMENT DETAIL

SCALE: NTS

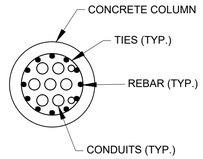
NOTES:
1. TYPICAL ALL ELEVATED PLATFORMS.
2. SEE ELECTRICAL PLANS FOR EXACT EQUIPMENT LAYOUTS AND CONDUIT QUANTITIES AND SIZES.
2. SEE STRUCTURAL DRAWINGS FOR DETAILS. DETAIL AND NOTES SHOWN ON ELECTRICAL PLANS ARE FOR CONCEPTUAL LAYOUT ONLY.



1 E-207 CONDUIT CONCRETE COLUMN

SCALE: NTS

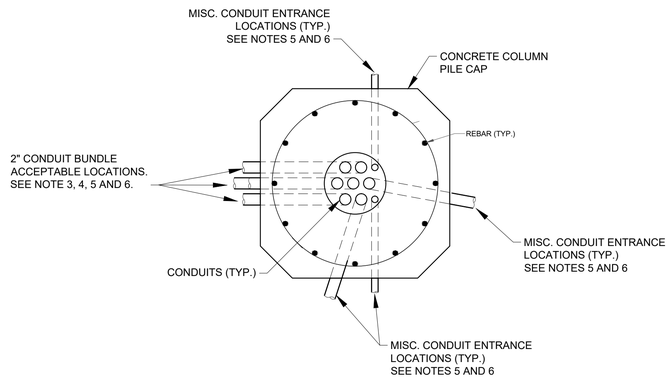
NOTES:
1. SEE STRUCTURAL DRAWING FOR EXACT LAYOUT AND STRUCTURAL DETAILS.
2. DETAIL AND NOTES SHOWN ON ELECTRICAL PLANS ARE FOR CONCEPTUAL LAYOUT ONLY.



2 E-207 CONDUIT COLUMN LAYOUT

SCALE: NTS

NOTES:
1. SEE STRUCTURAL DRAWING FOR EXACT LAYOUT AND STRUCTURAL DETAILS.
2. DETAIL AND NOTES SHOWN ON ELECTRICAL PLANS ARE FOR CONCEPTUAL LAYOUT ONLY.



NOTES:
1. SEE STRUCTURAL DRAWING FOR EXACT LAYOUT AND STRUCTURAL DETAILS.
2. DETAIL AND NOTES SHOWN ON ELECTRICAL PLANS ARE FOR CONCEPTUAL LAYOUT ONLY.
3. MAX OF (7) 2" DIA. CONDUIT BUNDLE TO ENTER PILE CAP THROUGH SAME FACE.
4. ONE VERTICAL REBAR MAY BE CUT TO ACCOMMODATE 2" DIA. CONDUIT BUNDLE. DO NOT CUT OR ALTER TIE BAR SPACING.
5. MISCELLANEOUS 2" DIA. CONDUITS SHALL ENTER PILE CAP THROUGH OTHER FACES. DO NOT MOVE, CUT OR ALTER SPACING OF REBAR AT THESE LOCATIONS.
6. MIN. 6" SPACING BETWEEN 1" DIA. CONDUITS IN THE SAME FACE.

3 E-207 CONDUIT COLUMN LAYOUT

SCALE: NTS

0 1' 2' 4'
SCALE: 3/4" = 1'-0"

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

ELECTRICAL RACK CONDUIT ROUTING

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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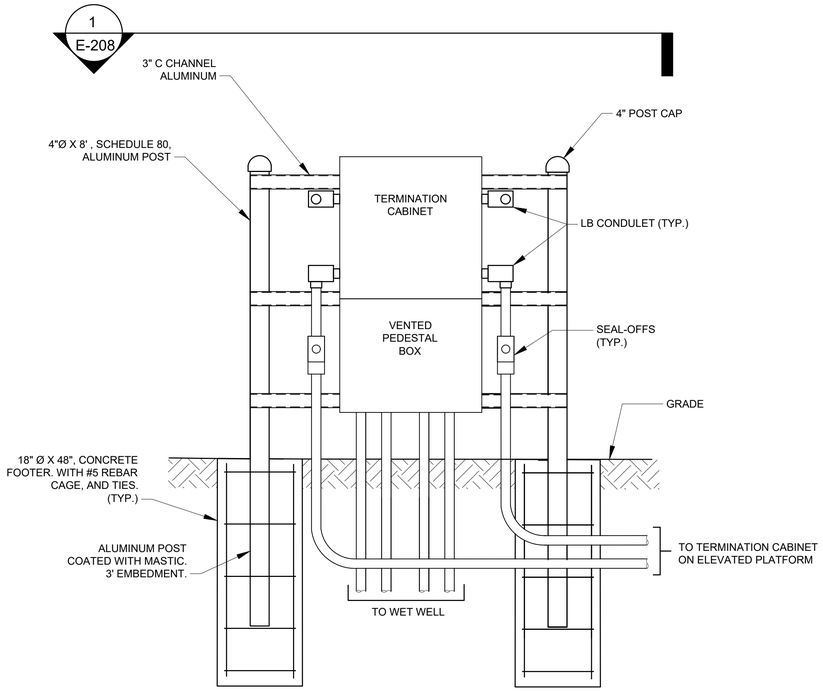
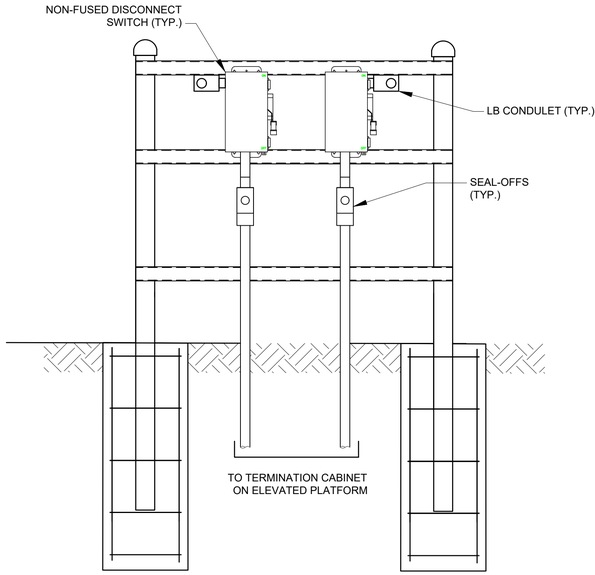


ELECTRICAL RACK LAYOUT - FRONT

SCALE: NTS

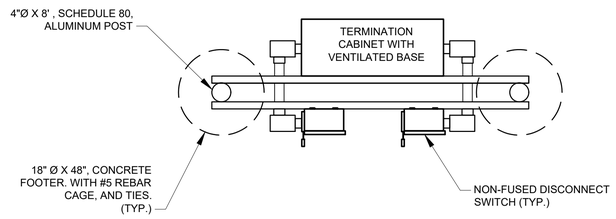
NOTES:
1. APPLICABLE FOR LS-5



ELECTRICAL RACK LAYOUT - REAR

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-5



1 E-208 ELECTRICAL RACK LAYOUT - PLAN VIEW

SCALE: NTS

NOTES:
1. APPLICABLE FOR LS-5

SCALE: 3/4" = 1'-0"

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

ELECTRICAL RACK DETAILS

Project No.:	200-08498-24002
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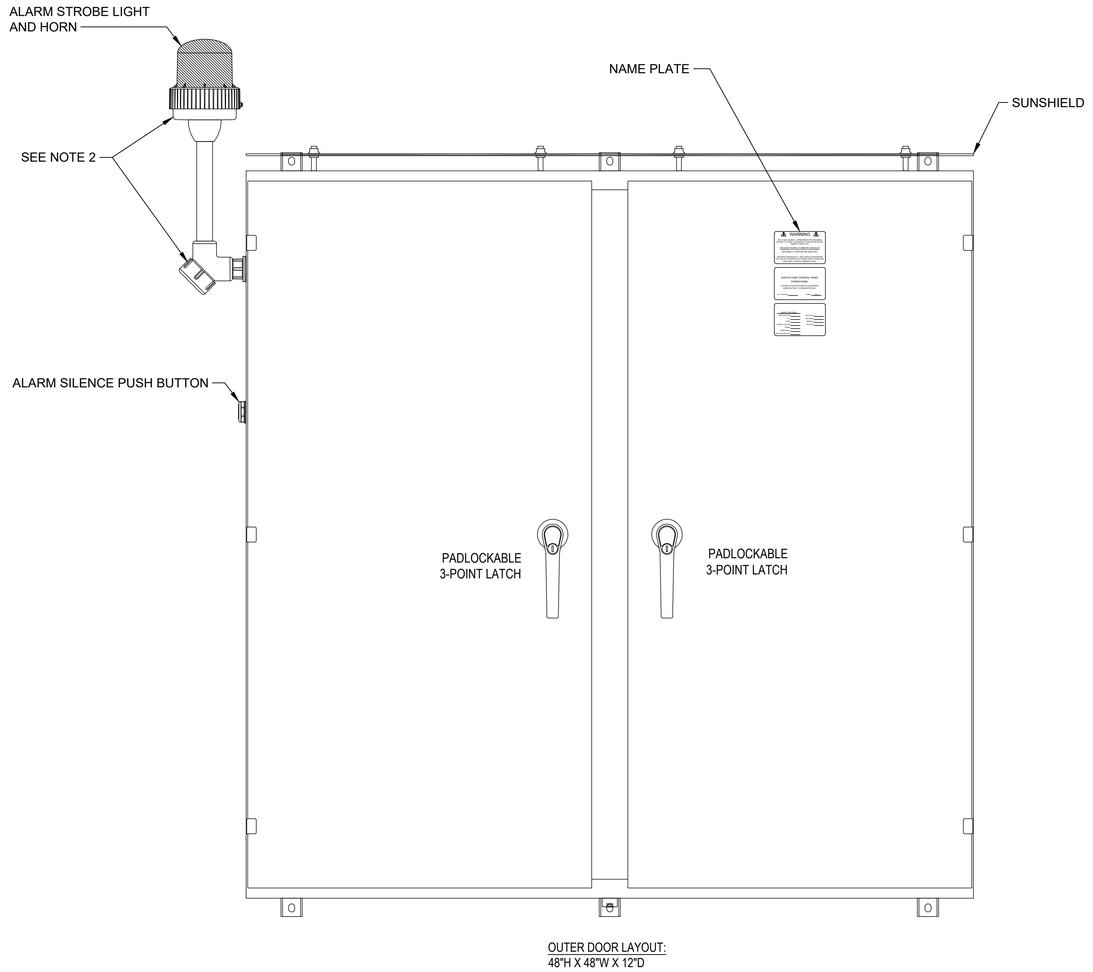
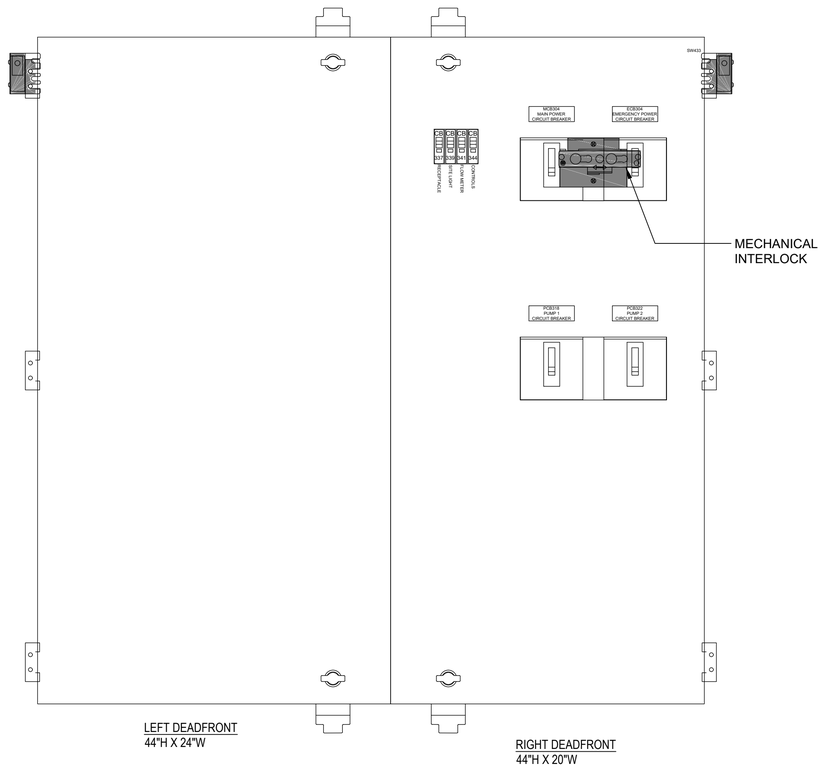


OUTER DOOR LAYOUT:
48"H X 48"W X 12"D



LEFT DEADFRONT
44"H X 24"W

RIGHT DEADFRONT
44"H X 20"W

DUPLEX LIFT STATION PUMP CONTROL PANEL (POWER PANEL) LAYOUT (TYPICAL LIFT STATIONS WITH VFD'S)

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
2. ALARM LIGHT SHIPPED LOOSE AND INSTALLED BY CONTRACTOR.

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
PUMP CONTROL PANEL (POWER PANEL) LAYOUT (VFD)

Project No.:	200-08498-24002
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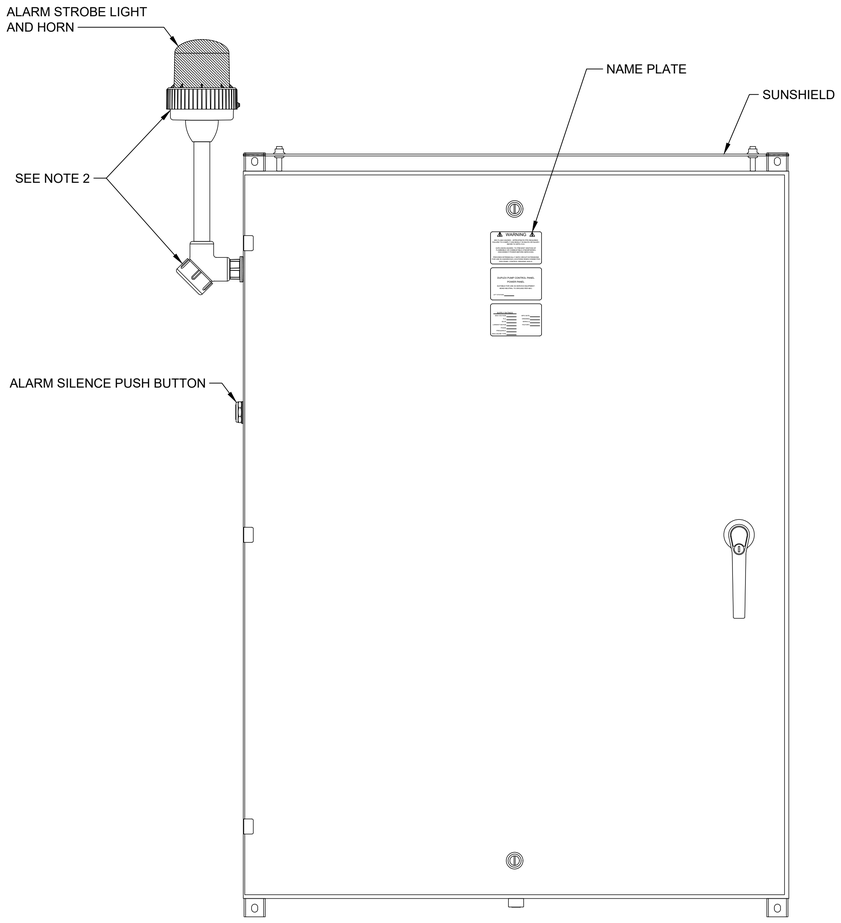
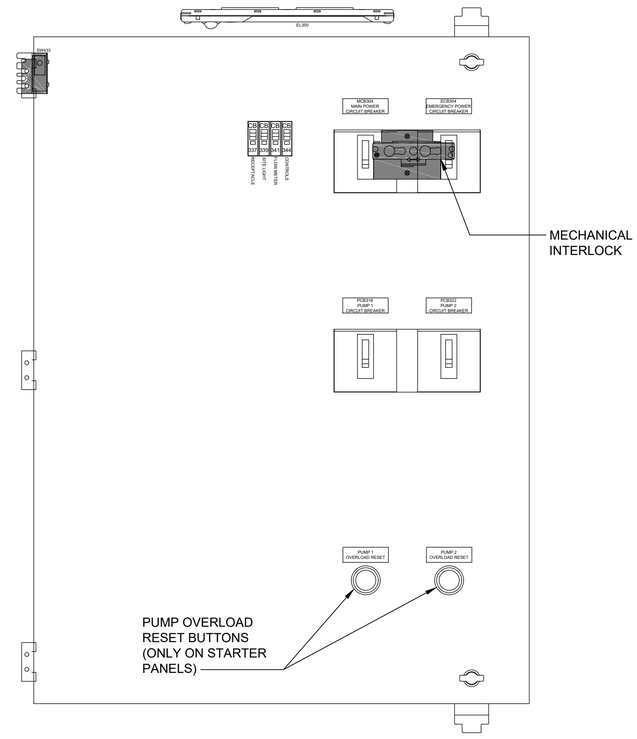


OUTER DOOR LAYOUT:
48"H X 36"W X 12"D



DEADFRONT
44"H X 32"W

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
2. ALARM LIGHT SHIPPED LOOSE AND INSTALLED BY CONTRACTOR.

DUPLEX LIFT STATION PUMP CONTROL PANEL (POWER PANEL) LAYOUT (TYPICAL LIFT STATIONS WITH STARTERS AND RVSS)

SCALE: NTS

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

PUMP CONTROL PANEL (POWER PANEL) LAYOUT (STARTER/RVSS)

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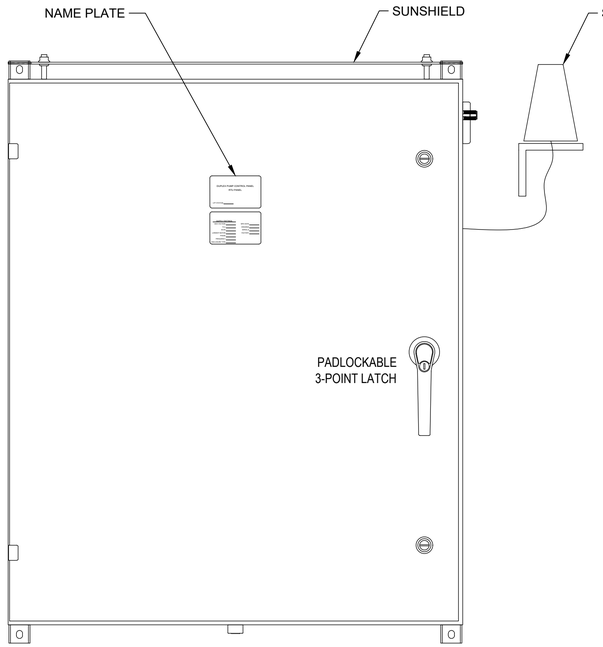
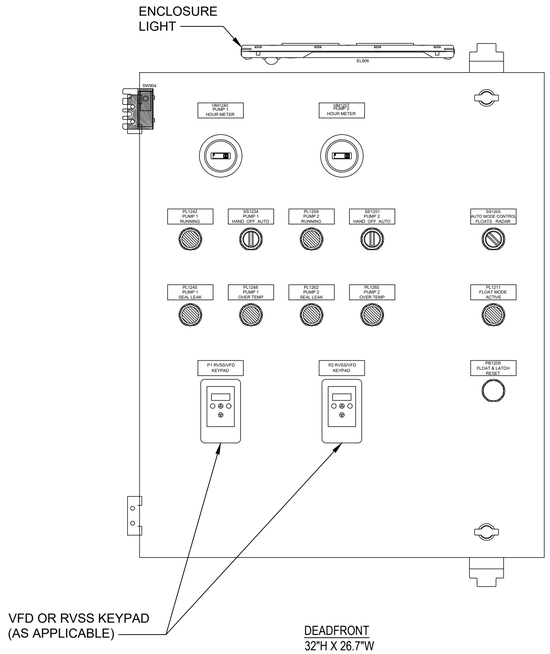


OUTER DOOR LAYOUT:
36"H X 30"W X 12"D



DEADFRONT
32"H X 26.7"W

DUPLEX LIFT STATION PUMP CONTROL PANEL (CONTROLS PANEL) LAYOUT (TYPICAL ALL LIFT STATIONS)

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
2. RTU CELLULAR ANTENNA SHIPPED LOOSE. MOUNTED AND INSTALLED BY CONTRACTOR. MOUNT TO ELECTRICAL RACK.

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PUMP CONTROL PANEL (CONTROLS PANEL) LAYOUT

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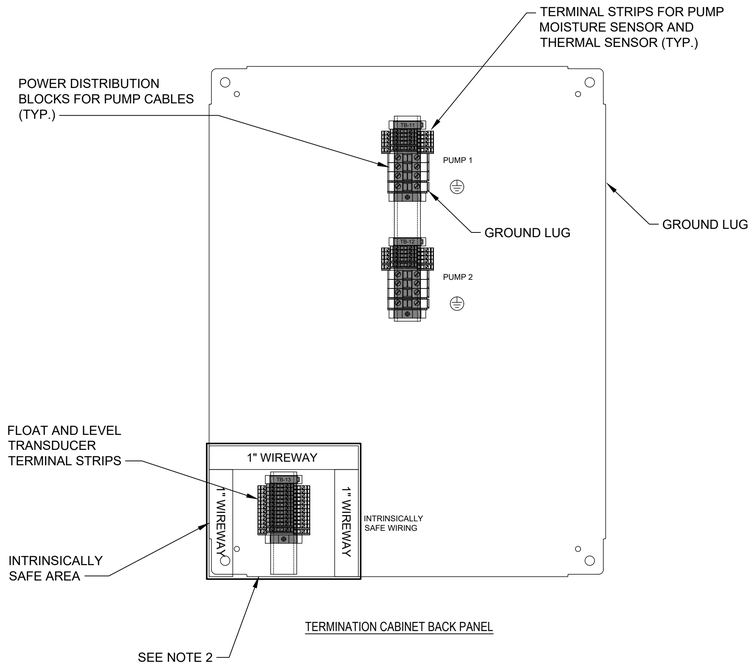

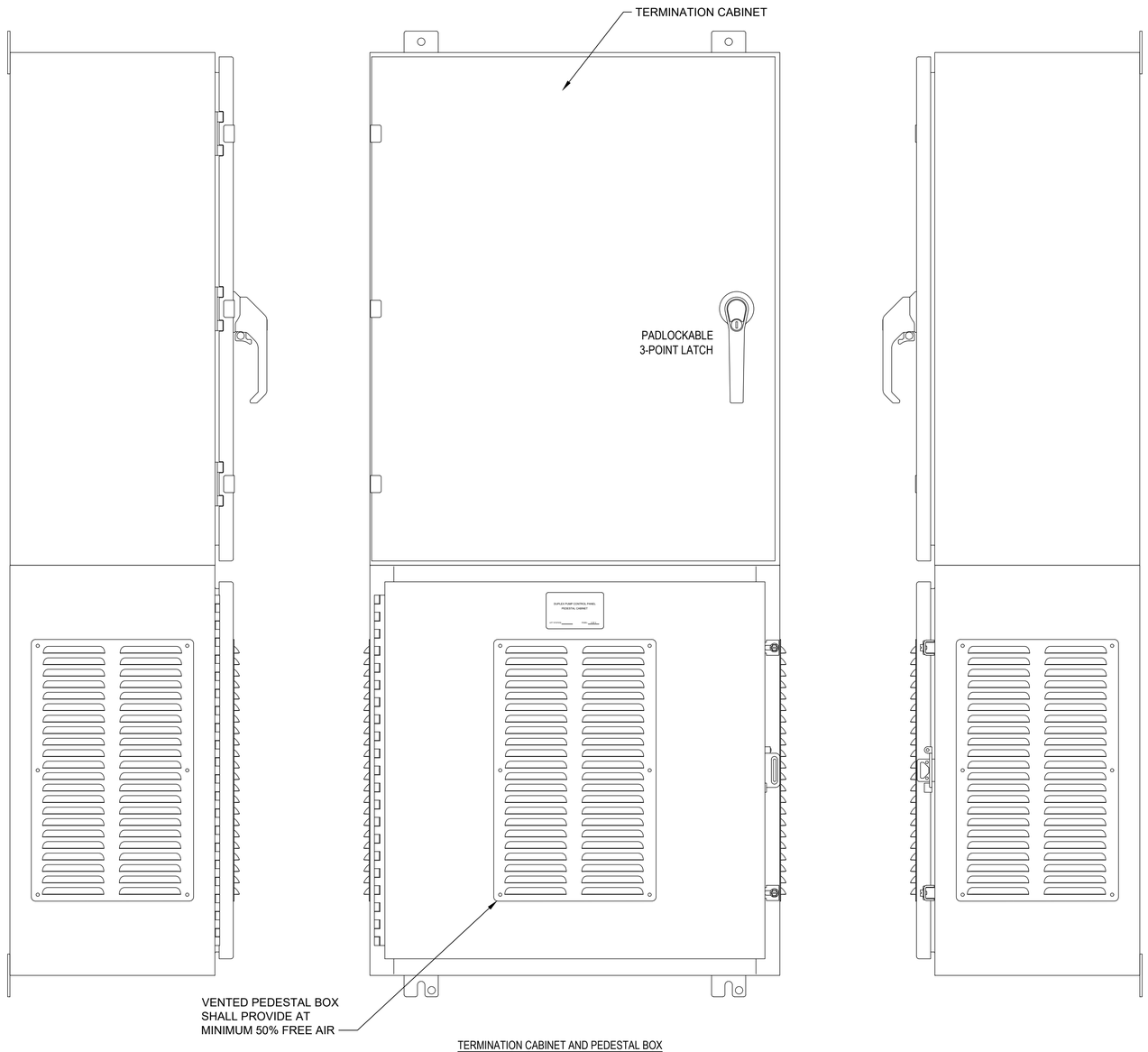

TERMINATION CABINET AND PEDESTAL BOX

TERMINAL CABINET ENCLOSURE:
30"H x 30"W x 12"D NEMA 4X RATED, FABRICATED FROM 14 GAUGE TYPE 316 STAINLESS STEEL, WHITE POWDER COAT FINISH. OUTER DOOR IS FITTED WITH A PADLOCKABLE 3-POINT LATCH.

TERMINATION CABINET BACK PANEL:
27"H X 21"W FABRICATED FROM 12ga. CARBON STEEL WITH WHITE POLYESTER POWDER COAT FINISH.

VENTED PEDESTAL BOX:
30"H X 24"W NEMA 4X RATED, FABRICATED FROM 14 GAUGE TYPE 316 STAINLESS STEEL. OUTER DOOR IS FIITED WITH SCREW DOWN CLAMPS AND PAD LOCK HASP. PROVIDED PEDESTAL BOX WITH LOUVER PLATE KITS IN 316 STAINLESS STEEL, WHITE POWDER COATED FINISH, ON FRONT BACK AND SIDES OF ENCLOSURE. PROIVDE VENTS ON ALL SIDES TO ALLOW 50% FREE AIR WITHIN ENCLOSURE.

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
2. CONTRACTOR TO RELOCATED INTRINSICALLY SAFE RELAY TERMINALS TO SIDE TERMINATION CABINET NEAREST PUMP CONTROL PANEL DEPENDANT ON ELECTRICAL RACK LAYOUT AT EACH WET WELL. BACKPLATE COMES PRE-DRILLED FOR EITHER SIDE.

TERMINATION CABINET AND PEDESTAL (TYPICAL ALL LIFT STATIONS)

SCALE: NTS

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

TERMINATION CABINET AND PEDESTAL BOX LAYOUT

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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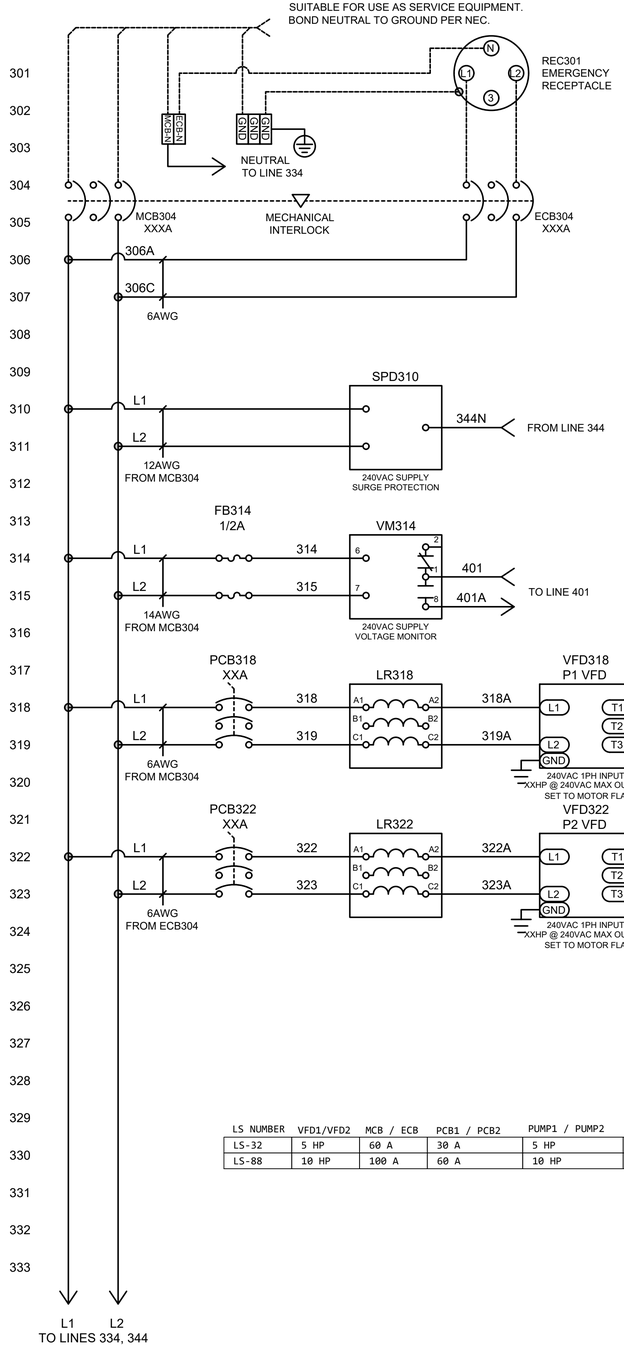
CUSTOMER SUPPLIED 240VAC 1PH 3W, 80A 60HZ
TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
MCB LINE ACCEPTS 1x 14-10AWG (44 LB-IN) 8-3/0 (123 LB-IN)
MCB LOAD ACCEPTS 6x 14-10AWG (20 LB-IN) 4-8AWG (35 LB-IN)

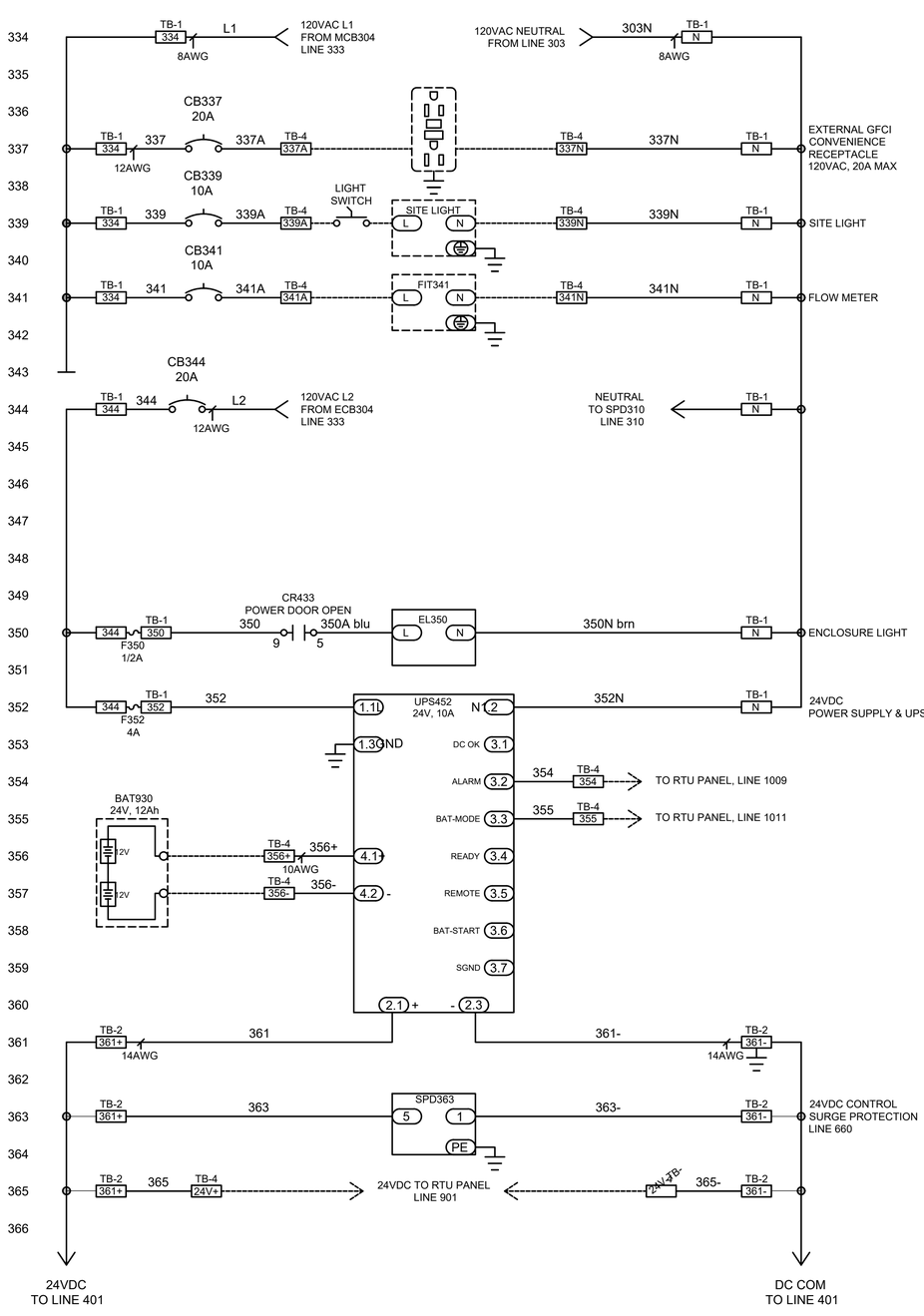
SUITABLE FOR USE AS SERVICE EQUIPMENT.
BOND NEUTRAL TO GROUND PER NEC.



LS NUMBER	VFD1/VFD2	MCB / ECB	PCB1 / PCB2	PUMP1 / PUMP2	PUMP1 / PUMP2
LS-32	5 HP	60 A	30 A	5 HP	15.2 A
LS-88	10 HP	100 A	60 A	10 HP	28 A

L1 L2
TO LINES 334, 344

120VAC DISTRIBUTION



240V, 1 PHASE, VFD
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

240V, 1 PHASE, VFD
CONTROL PANEL (POWER)
WIRING DIAGRAM

Project No.:	200-08498-24002
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Drawn By:	JAS
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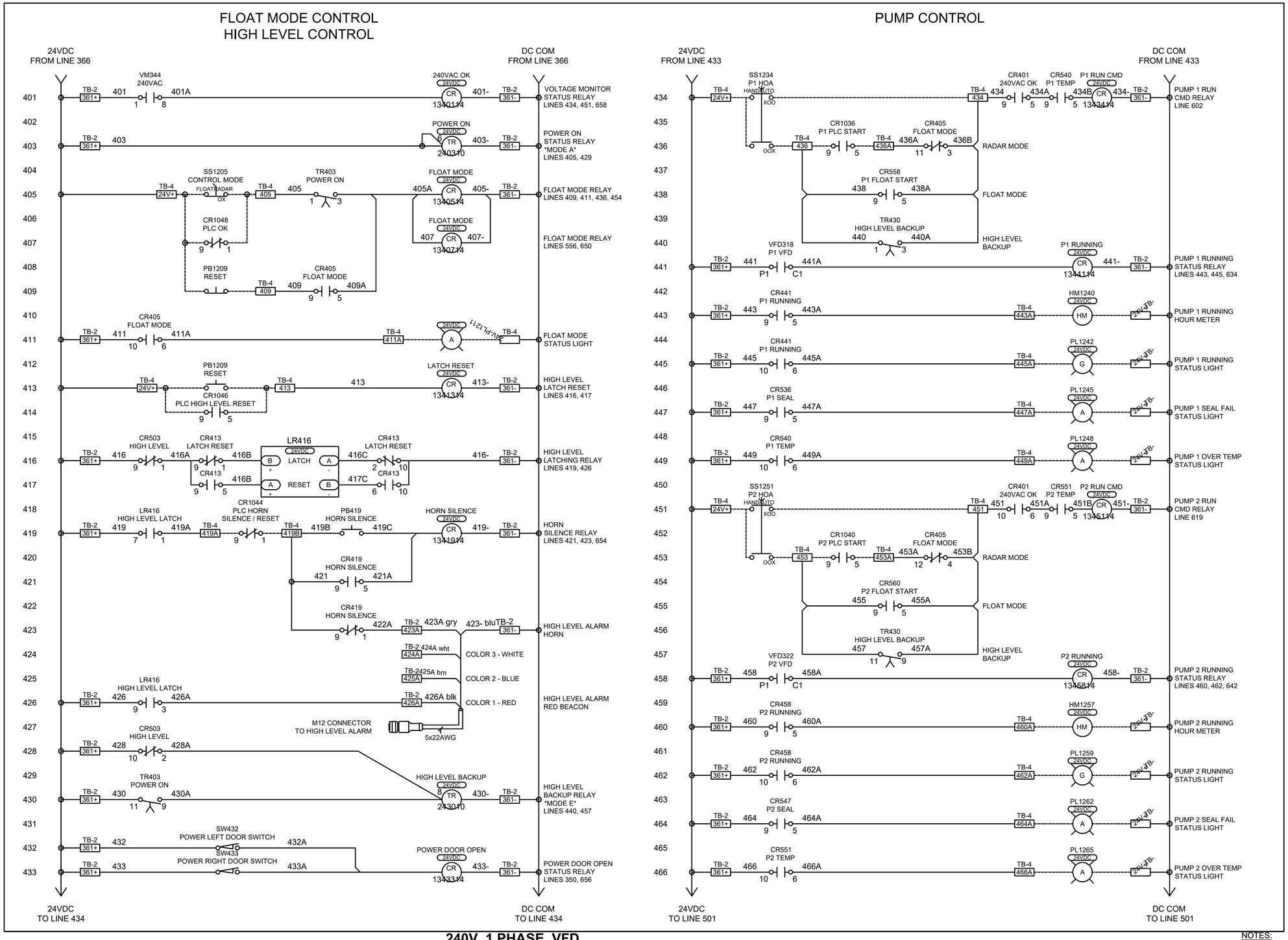

240V, 1 PHASE, VFD
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

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CITY OF SANIBEL
800 Dunlop Road
Sanibel, Florida 33957

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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

240V, 1 PHASE (POWER) CONTROL PANEL (POWER) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-312
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Bar Measures 1 inch

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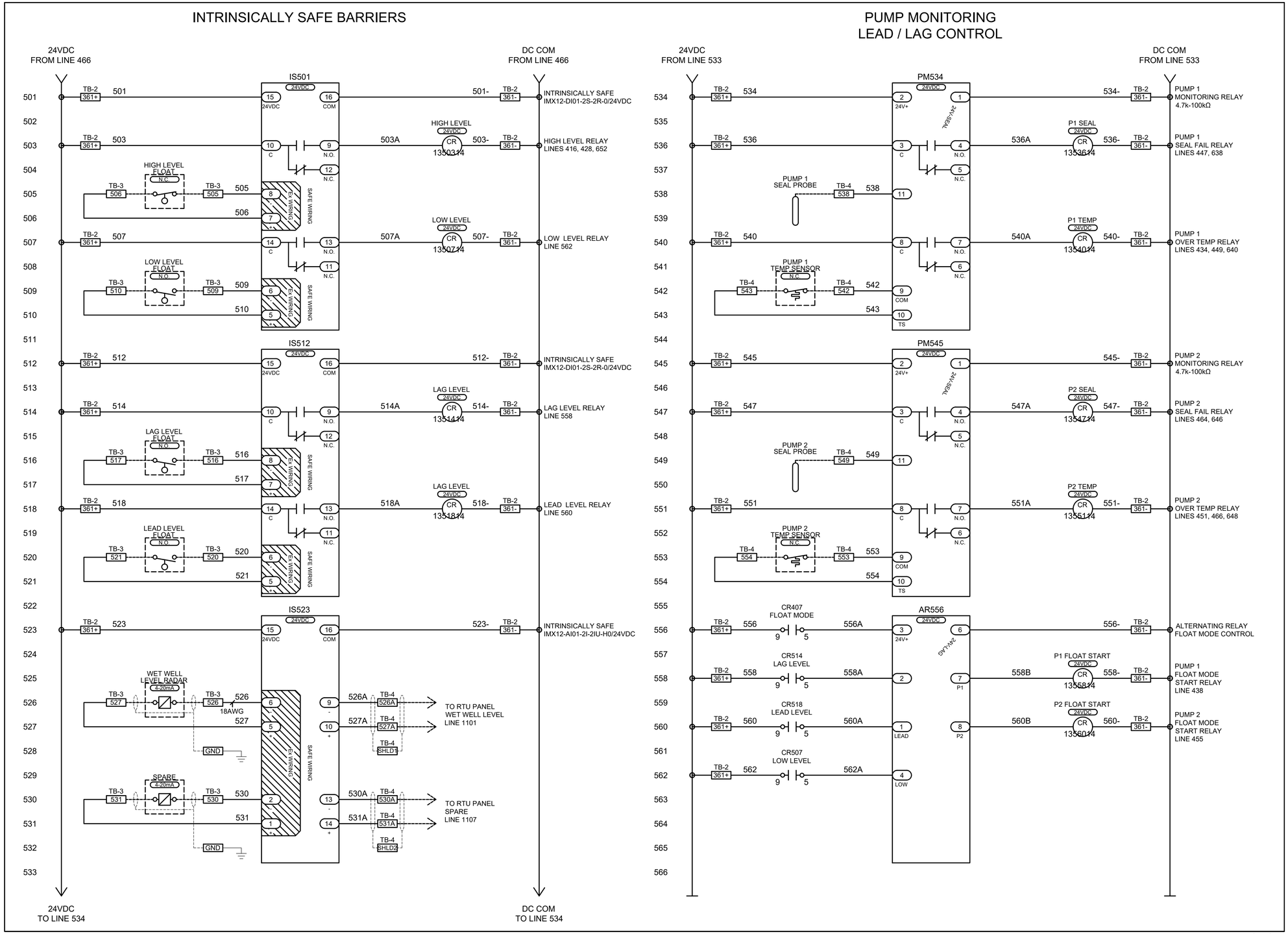

240V, 1 PHASE, VFD PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

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240V, 1 PHASE, VFD CONTROL PANEL (POWER) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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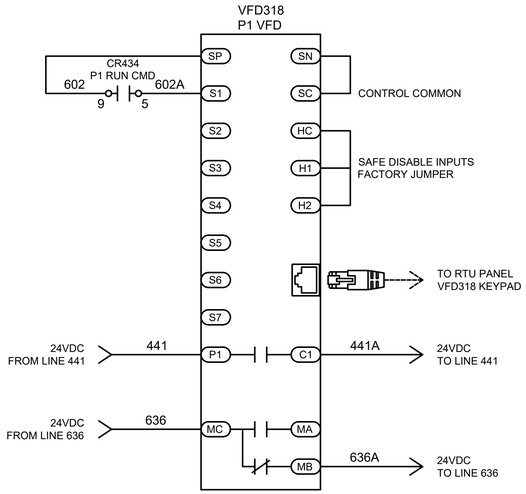
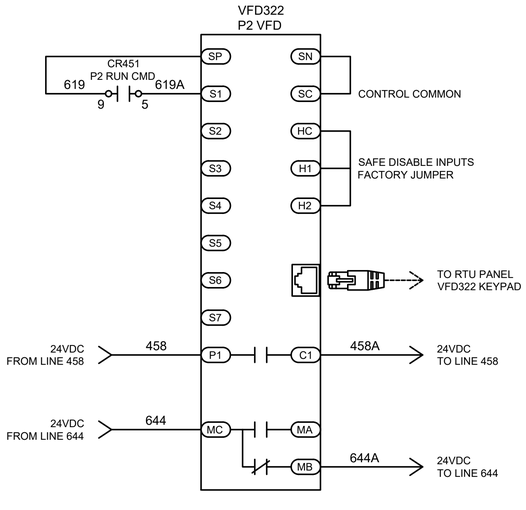
VFD CONTROL





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619	FORWARD RUN	652
620		653
621		654
622		655
623		656
624		657
625		658
626	RUN STATUS	659
627		660
628	FAULT STATUS	661
629		662
630		663
631		664
632		665
633		666

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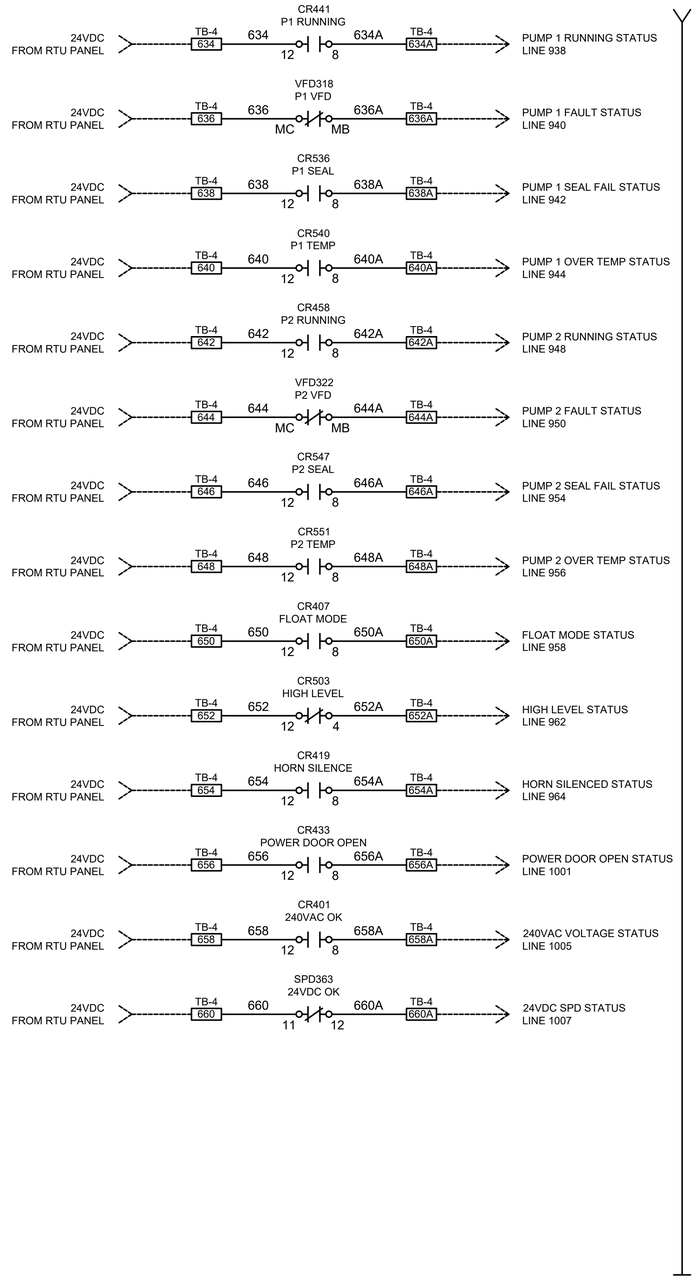
PLC STATUSES



240V, 1 PHASE, VFD
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

240V, 1 PHASE, VFD
CONTROL PANEL (POWER)
WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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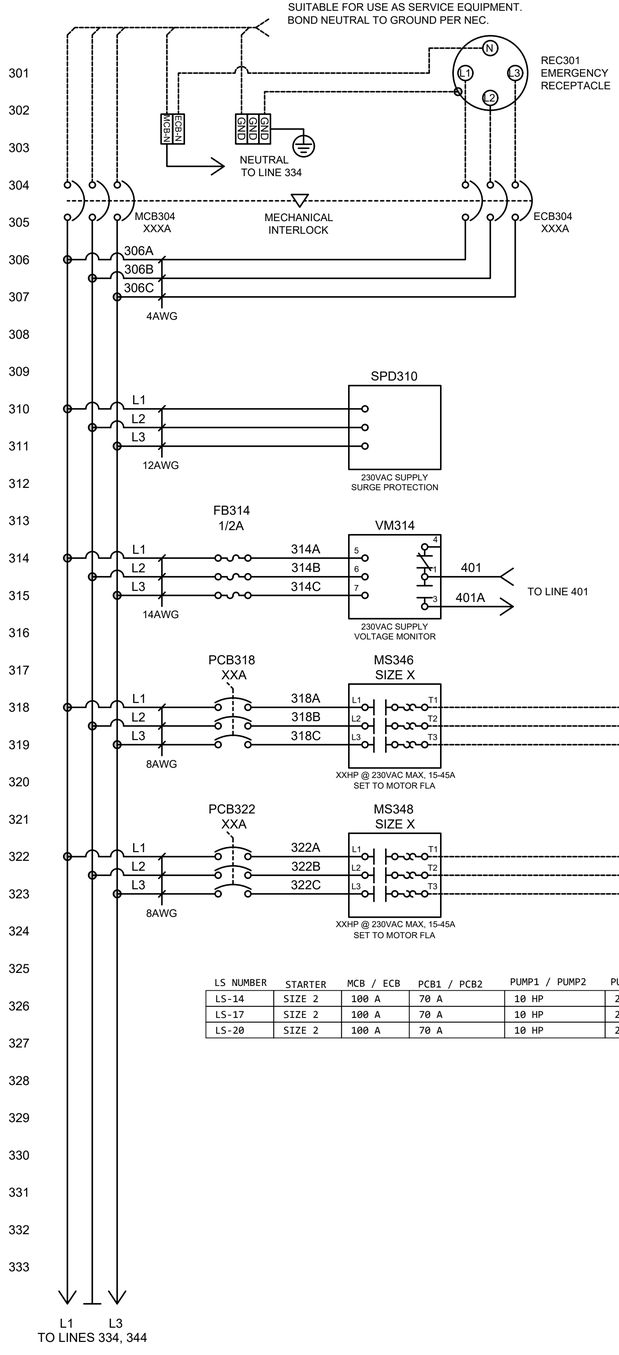
CUSTOMER SUPPLIED 230VAC 3PH 4W, 80A 60HZ
TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
MCB LINE ACCEPTS 1x 14-10AWG (44 LB-IN) 8-3/0 (123 LB-IN)
MCB LOAD ACCEPTS 6x 14-10AWG (20 LB-IN) 6-8AWG (24 LB-IN)

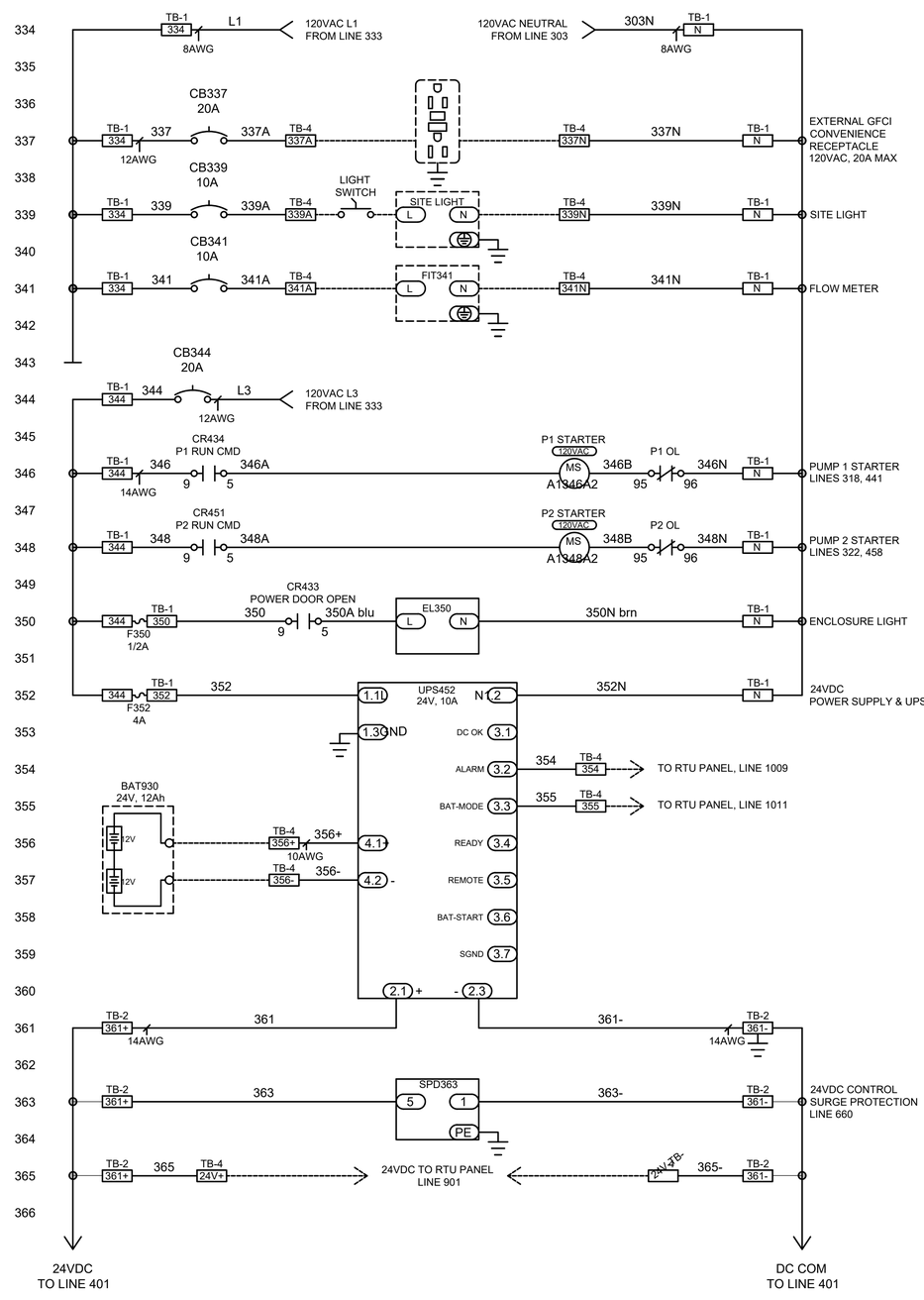
SUITABLE FOR USE AS SERVICE EQUIPMENT.
BOND NEUTRAL TO GROUND PER NEC.



LS NUMBER	STARTER	MCB / ECB	PCB1 / PCB2	PUMP1 / PUMP2	PUMP1 / PUMP2
LS-14	SIZE 2	100 A	70 A	10 HP	28 A
LS-17	SIZE 2	100 A	70 A	10 HP	28 A
LS-20	SIZE 2	100 A	70 A	10 HP	28 A

L1 L3
TO LINES 334, 344

120VAC DISTRIBUTION



230V, 3 PHASE, STARTER PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

230V, 3 PHASE, STARTER CONTROL PANEL (POWER) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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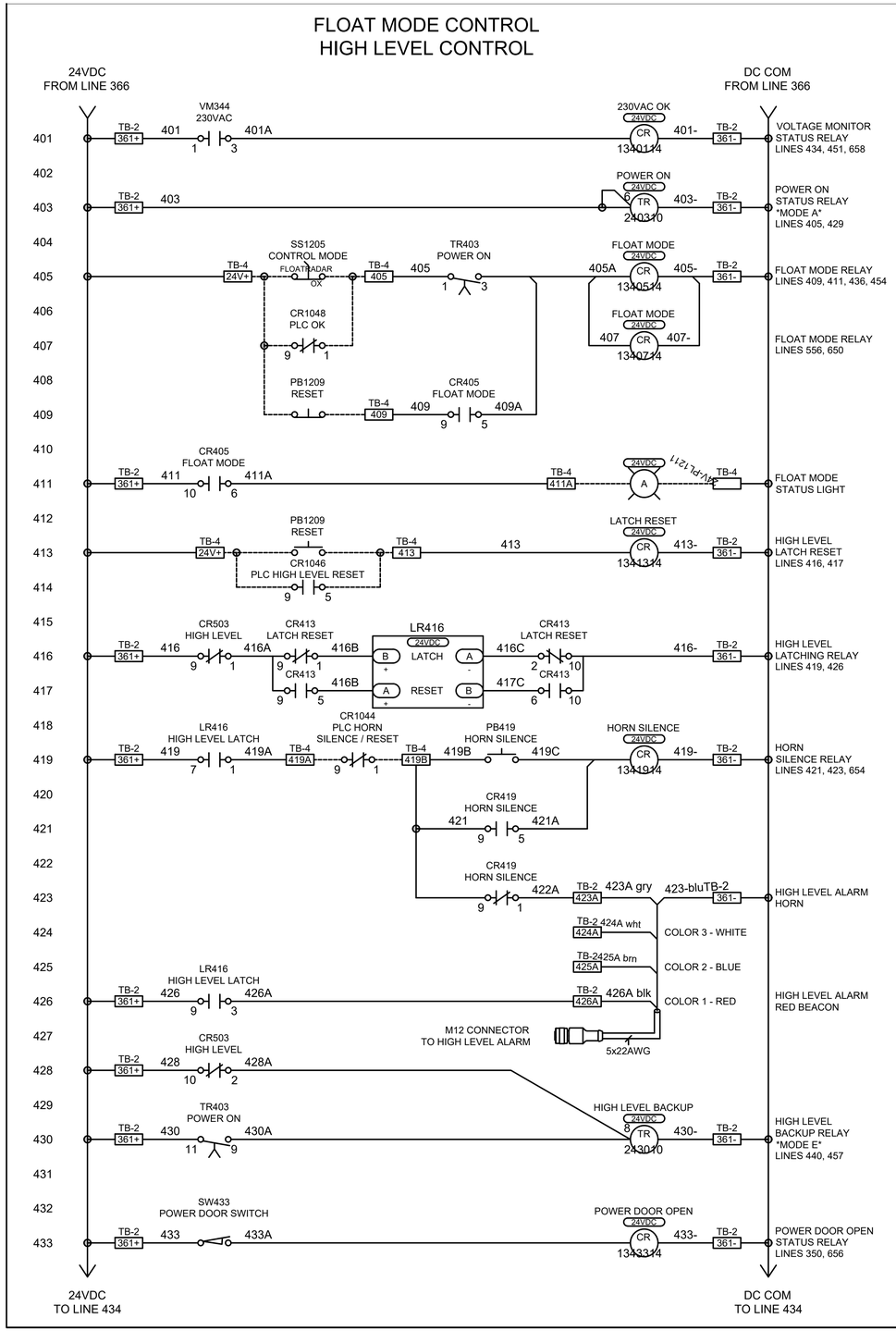

230V, 3 PHASE, STARTER PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

230V, 3 PHASE, STARTER CONTROL PANEL (POWER) WIRING DIAGRAM

Project No.:	200-08498-24002
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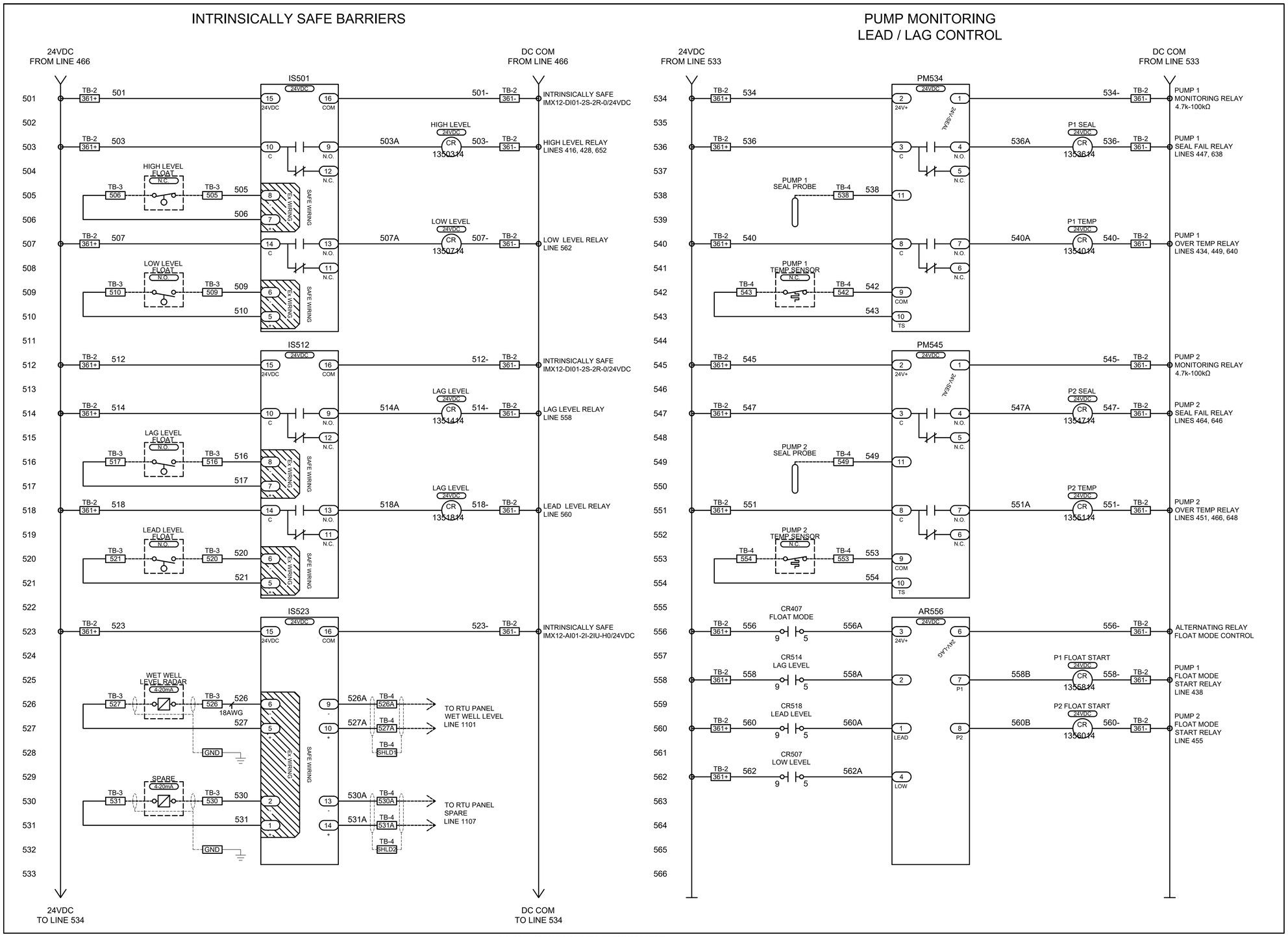

230V, 3 PHASE, STARTER PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

230V, 3 PHASE, STARTER CONTROL PANEL (POWER) WIRING DIAGRAM

Project No.:	200-08498-24002
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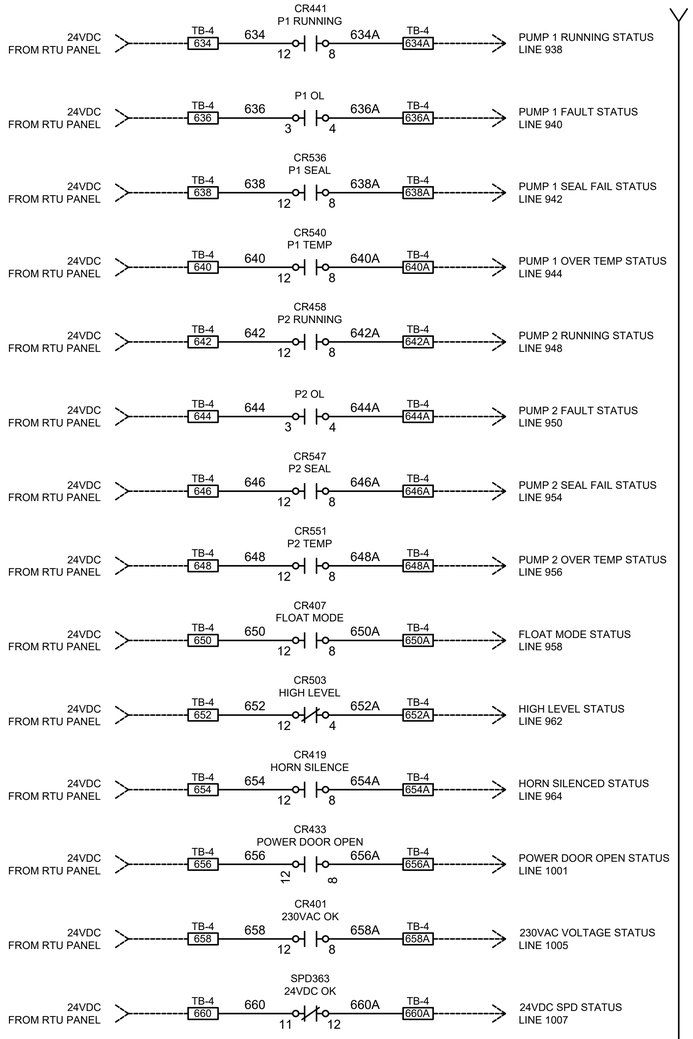
RESERVED

PLC STATUSES



230V, 3 PHASE, STARTER
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
230V, 3 PHASE, STARTER CONTROL PANEL (POWER) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
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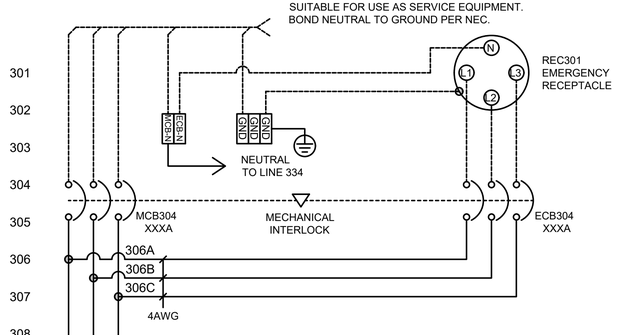
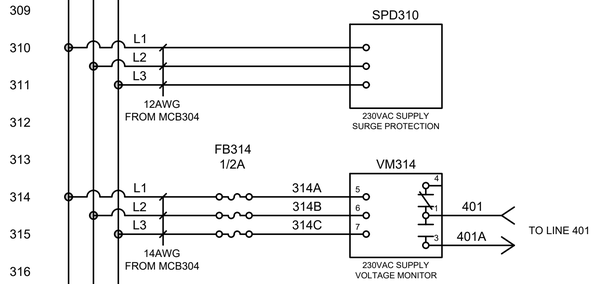
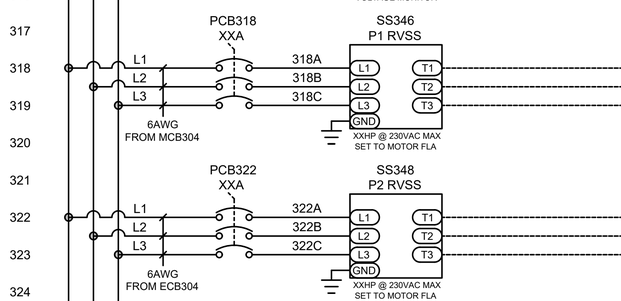
CUSTOMER SUPPLIED 230VAC 3PH 4W, 160A 60HZ
TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
MCB LINE ACCEPTS 1x 14-10AWG (44 LB-IN) 8-3/0 (123 LB-IN)
MCB LOAD ACCEPTS 6x 14-10AWG (20 LB-IN) 4-8AWG (35 LB-IN)

SUITABLE FOR USE AS SERVICE EQUIPMENT.
BOND NEUTRAL TO GROUND PER NEC.



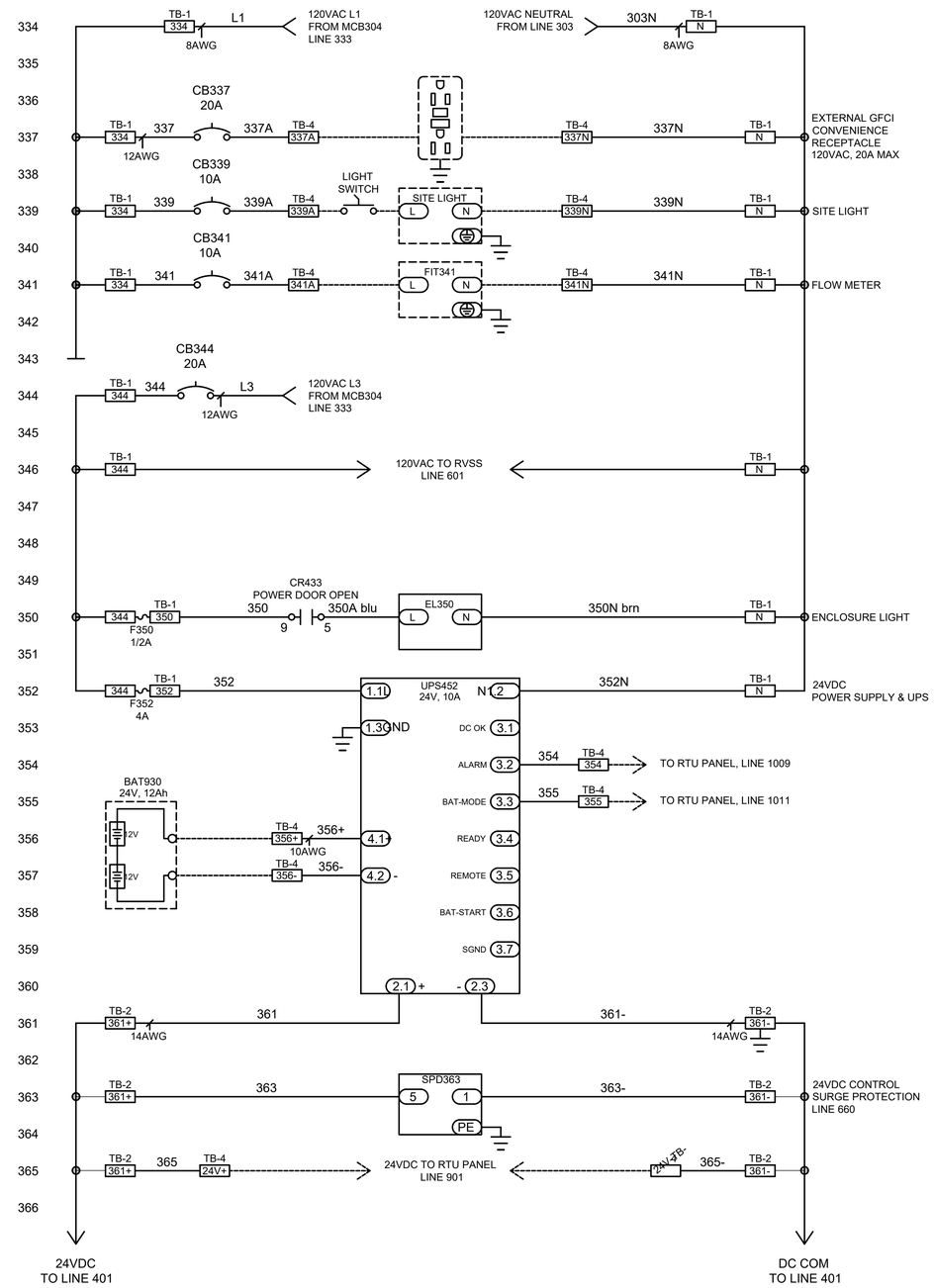




LS NUMBER	RVSS1/RVSS2	MCB / ECB	PCB1 / PCB2	PUMP1 / PUMP2	PUMP1 / PUMP2
LS-5	20 HP	100 A	80 A	15 HP	42 A

L1 L3
TO LINES 334, 344

120VAC DISTRIBUTION



230V, 3 PHASE, RVSS
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

230V, 3 PHASE, RVSS
CONTROL PANEL (POWER)
WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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FLOAT MODE CONTROL
HIGH LEVEL CONTROL

24VDC FROM LINE 366

DC COM FROM LINE 366

401 — TB-2 361+ — 401 — 1 — 3 — 401A — 230VAC OK 24VDC CR 1340114 — 401- — TB-2 361- — VOLTAGE MONITOR STATUS RELAY LINES 434, 451, 658

403 — TB-2 361+ — 403 — POWER ON 24VDC TR 2403470 — 403- — TB-2 361- — POWER ON STATUS RELAY *MODE A* LINES 405, 429

405 — TB-4 24V+ — SS1205 CONTROL MODE FLOAT/RADAR OX — TB-4 405 — TR403 POWER ON 1 3 — FLOAT MODE 24VDC CR 1340514 405A — 405- — TB-2 361- — FLOAT MODE RELAY LINES 409, 411, 436, 454

406 — CR1048 PLC OK 9 1

407 — FLOAT MODE 24VDC CR 1340714 407 — 407- — FLOAT MODE RELAY LINES 556, 650

408 — PB1209 RESET

409 — TB-4 409 — CR405 FLOAT MODE 409 9 5 409A

410

411 — TB-2 361+ — CR405 FLOAT MODE 411 10 6 411A — TB-4 411A — 24VDC A SW-PL1211 — TB-4 — FLOAT MODE STATUS LIGHT

412

413 — TB-4 24V+ — PB1209 RESET — CR1046 PLC HIGH LEVEL RESET 9 5 — TB-4 413 — 413 — LATCH RESET 24VDC CR 1341314 413- — TB-2 361- — HIGH LEVEL LATCH RESET LINES 416, 417

414

415

416 — TB-2 361+ — CR503 HIGH LEVEL 416 9 1 416A — CR413 LATCH RESET 9 1 416B — LR416 24VDC B + LATCH A - — 416C — CR413 2 10 — 416- — TB-2 361- — HIGH LEVEL LATCHING RELAY LINES 419, 426

417 — CR413 9 5 416B — A + RESET B - — 417C — CR413 6 10

418 — CR1044 PLC HORN SILENCE / RESET

419 — TB-2 361+ — LR416 HIGH LEVEL LATCH 419 7 1 419A — TB-4 419A — 9 1 — TB-4 419B — PB419 HORN SILENCE 419B — 419C — HORN SILENCE 24VDC CR 1341914 419- — TB-2 361- — HORN SILENCE RELAY LINES 421, 423, 654

420

421 — CR419 HORN SILENCE 421 9 5 421A

422 — CR419 HORN SILENCE 9 1 422A — TB-2 423A — 423A gry — 423- blu — TB-2 361- — HIGH LEVEL ALARM HORN

423

424 — TB-2 424A wht — 424A — COLOR 3 - WHITE

425 — TB-2 425A brn — 425A — COLOR 2 - BLUE

426 — TB-2 361+ — LR416 HIGH LEVEL LATCH 426 9 3 426A — TB-2 426A blk — 426A — COLOR 1 - RED — HIGH LEVEL ALARM RED BEACON

427 — M12 CONNECTOR TO HIGH LEVEL ALARM — 5x22AWG

428 — TB-2 361+ — CR503 HIGH LEVEL 428 10 2 428A

429

430 — TB-2 361+ — TR403 POWER ON 430 11 9 430A — HIGH LEVEL BACKUP 24VDC TR 2430470 8 — 430- — TB-2 361- — HIGH LEVEL BACKUP RELAY *MODE E* LINES 440, 457

431

432 — SW433 POWER DOOR SWITCH

433 — TB-2 361+ — 433 — 433A — POWER DOOR OPEN 24VDC CR 1343314 433- — TB-2 361- — POWER DOOR OPEN STATUS RELAY LINES 350, 656

24VDC TO LINE 434

DC COM TO LINE 434

PUMP CONTROL

24VDC FROM LINE 433

DC COM FROM LINE 433

434 — TB-4 24V+ — SS1234 P1 HOA HAND AUTO XOO — OOX — TB-4 434 — CR401 230VAC OK 434 9 5 434A — CR540 P1 TEMP 9 5 434B — P1 RUN CMD 24VDC CR 1343414 434- — TB-2 361- — PUMP 1 RUN CMD RELAY LINE 605

435

436 — CR1036 P1 PLC START — TB-4 436A — CR405 FLOAT MODE 436A 11 3 436B — RADAR MODE

437

438 — CR558 P1 FLOAT START 438 9 5 438A — FLOAT MODE

439

440 — TR430 HIGH LEVEL BACKUP 440 1 3 440A — HIGH LEVEL BACKUP

441 — TB-2 361+ — SS346 P1 RVSS 441 R1C R1A 441A — P1 RUNNING 24VDC CR 1344114 441- — TB-2 361- — PUMP 1 RUNNING STATUS RELAY LINES 443, 445, 634

442

443 — TB-2 361+ — CR441 P1 RUNNING 443 9 5 443A — TB-4 443A — HM1240 24VDC HM — 24VDC FB- — PUMP 1 RUNNING HOUR METER

444

445 — TB-2 361+ — CR441 P1 RUNNING 445 10 6 445A — TB-4 445A — PL1242 24VDC G — 24VDC FB- — PUMP 1 RUNNING STATUS LIGHT

446

447 — TB-2 361+ — CR536 P1 SEAL 447 9 5 447A — TB-4 447A — PL1245 24VDC A — 24VDC FB- — PUMP 1 SEAL FAIL STATUS LIGHT

448

449 — TB-2 361+ — CR540 P1 TEMP 449 10 6 449A — TB-4 449A — PL1248 24VDC A — 24VDC FB- — PUMP 1 OVER TEMP STATUS LIGHT

450

451 — TB-4 24V+ — SS1251 P2 HOA HAND AUTO XOO — OOX — TB-4 451 — CR401 230VAC OK 451 10 6 451A — CR551 P2 TEMP 9 5 451B — P2 RUN CMD 24VDC CR 1345114 451- — TB-2 361- — PUMP 2 RUN CMD RELAY LINE 622

452

453 — CR1040 P2 PLC START — TB-4 453A — CR405 FLOAT MODE 453A 12 4 453B — RADAR MODE

454

455 — CR560 P2 FLOAT START 455 9 5 455A — FLOAT MODE

456

457 — TR430 HIGH LEVEL BACKUP 457 11 9 457A — HIGH LEVEL BACKUP

458 — TB-2 361+ — SS348 P2 RVSS 458 R1C R1A 458A — P2 RUNNING 24VDC CR 1346814 458- — TB-2 361- — PUMP 2 RUNNING STATUS RELAY LINES 460, 462, 642

459

460 — TB-2 361+ — CR458 P2 RUNNING 460 9 5 460A — TB-4 460A — HM1257 24VDC HM — 24VDC FB- — PUMP 2 RUNNING HOUR METER

461

462 — TB-2 361+ — CR458 P2 RUNNING 462 10 6 462A — TB-4 462A — PL1259 24VDC G — 24VDC FB- — PUMP 2 RUNNING STATUS LIGHT

463

464 — TB-2 361+ — CR547 P2 SEAL 464 9 5 464A — TB-4 464A — PL1262 24VDC A — 24VDC FB- — PUMP 2 SEAL FAIL STATUS LIGHT

465

466 — TB-2 361+ — CR551 P2 TEMP 466 10 6 466A — TB-4 466A — PL1265 24VDC A — 24VDC FB- — PUMP 2 OVER TEMP STATUS LIGHT

24VDC TO LINE 501

DC COM TO LINE 501

230V, 3 PHASE, RVSS
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

230V, 3 PHASE, RVSS
CONTROL PANEL (POWER) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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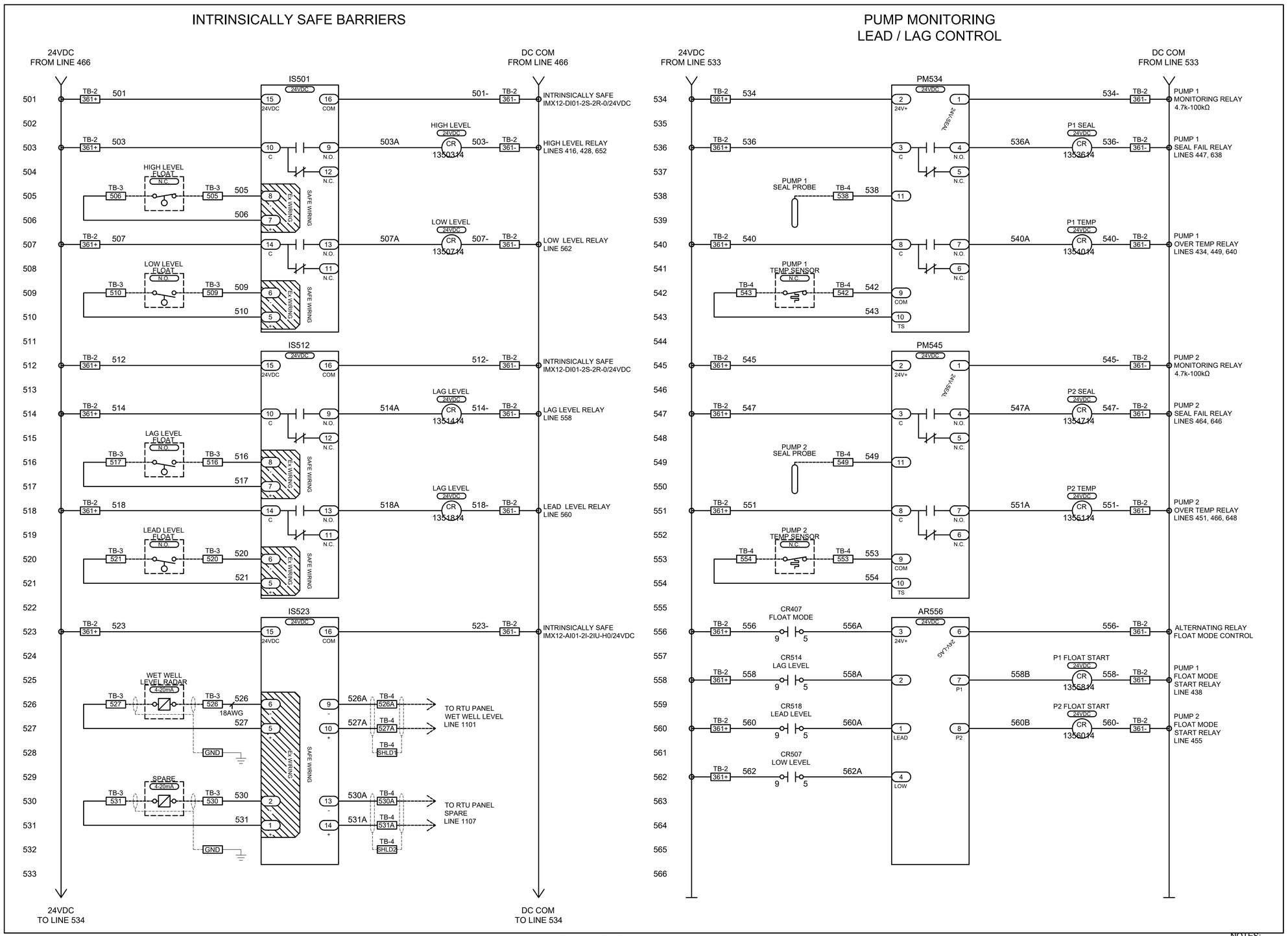

230V, 3 PHASE, RVSS
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

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230V, 3 PHASE, RVSS
CONTROL PANEL (POWER)
WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-333
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Bar Measures 1 inch

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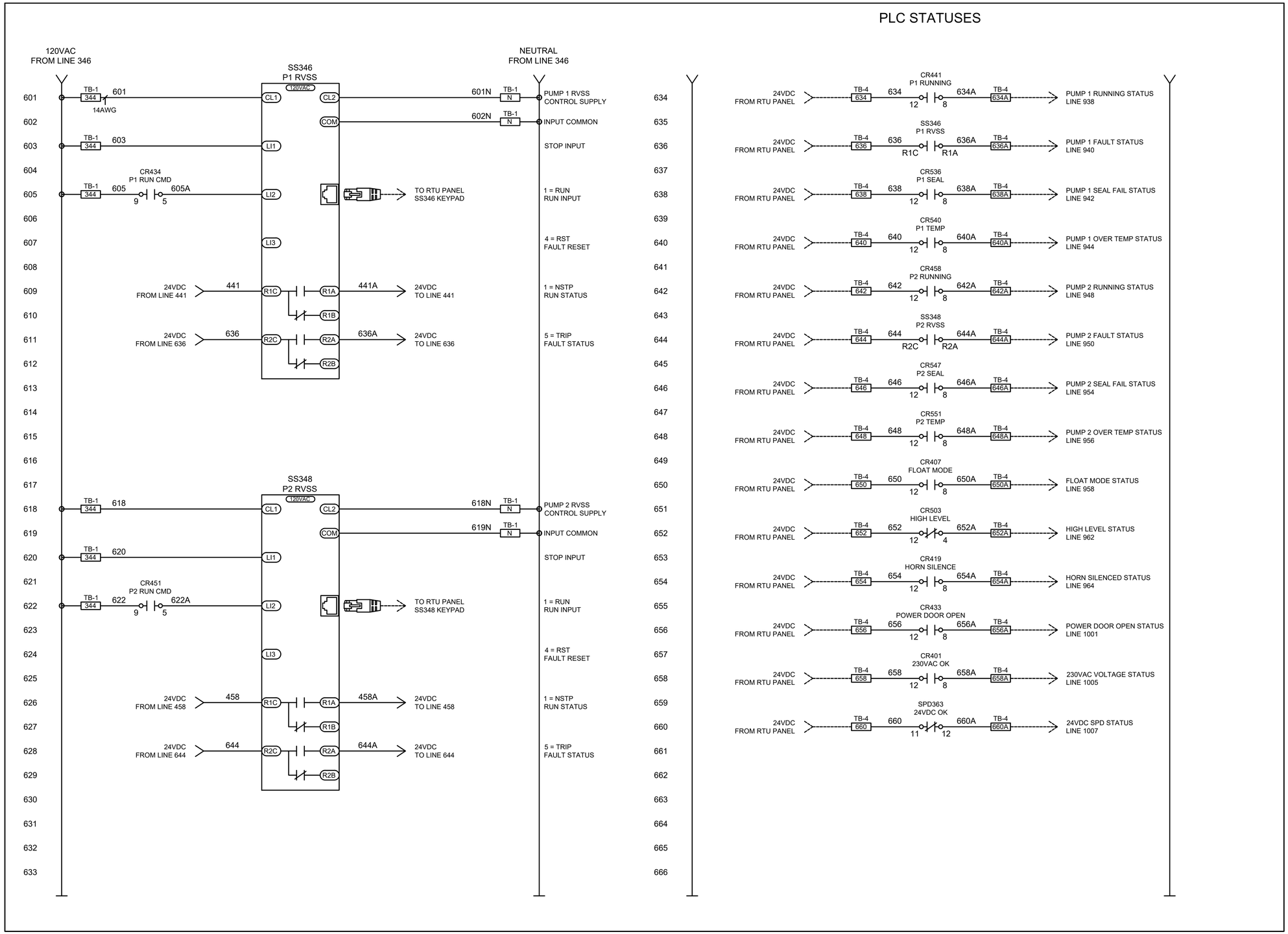

PLC STATUSES

230V, 3 PHASE, RVSS
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

TETRA TECH
ENGINEERING BUSINESS NO. 2429
www.tetratech.com
10600 CHEVROLET WAY, SUITE 102
ESTERO, FLORIDA 33928
PHONE: (239) 390-1467

BID SET

CITY OF SANIBEL
800 Dunlop Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
230V, 3 PHASE, RVSS
CONTROL PANEL (POWER) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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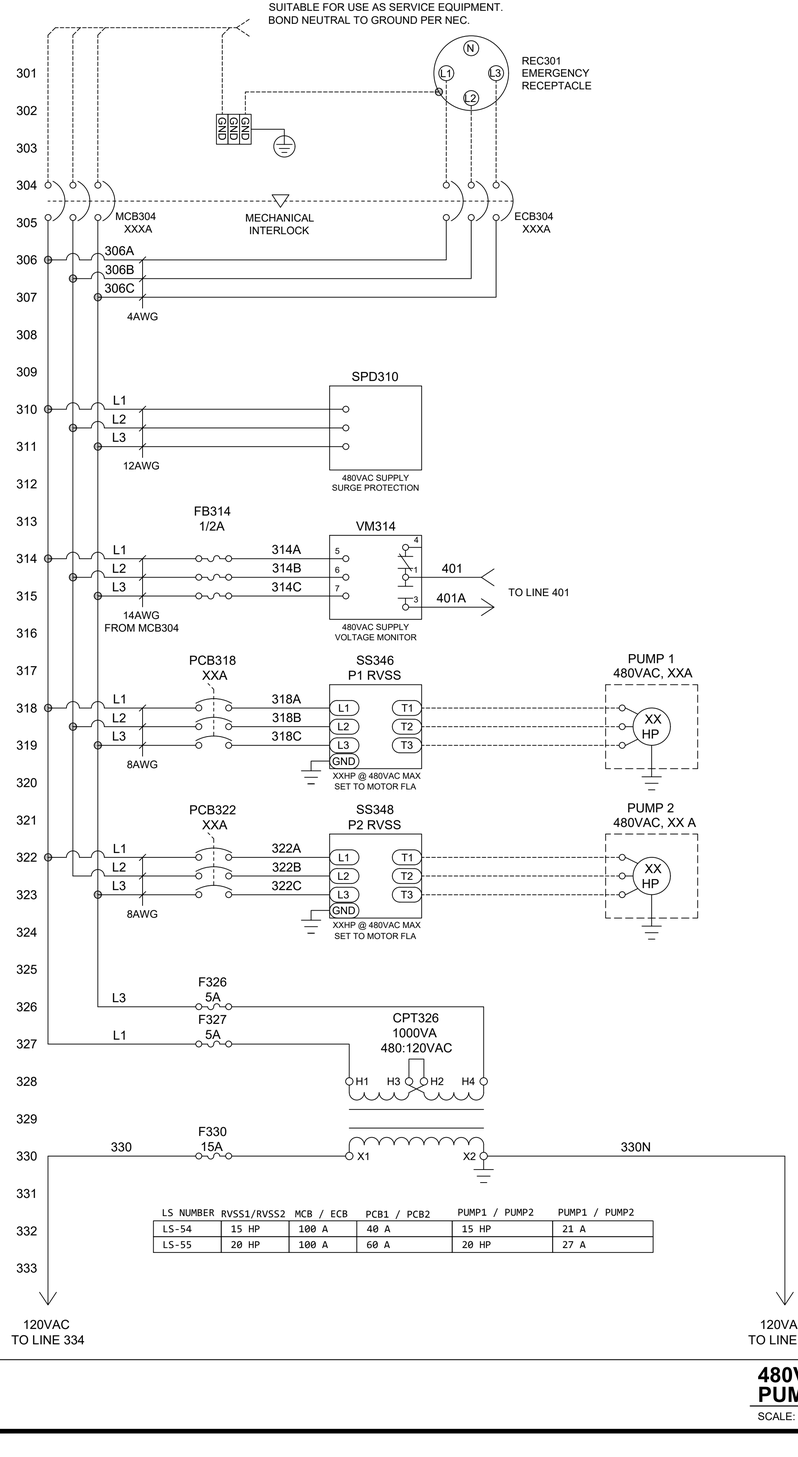
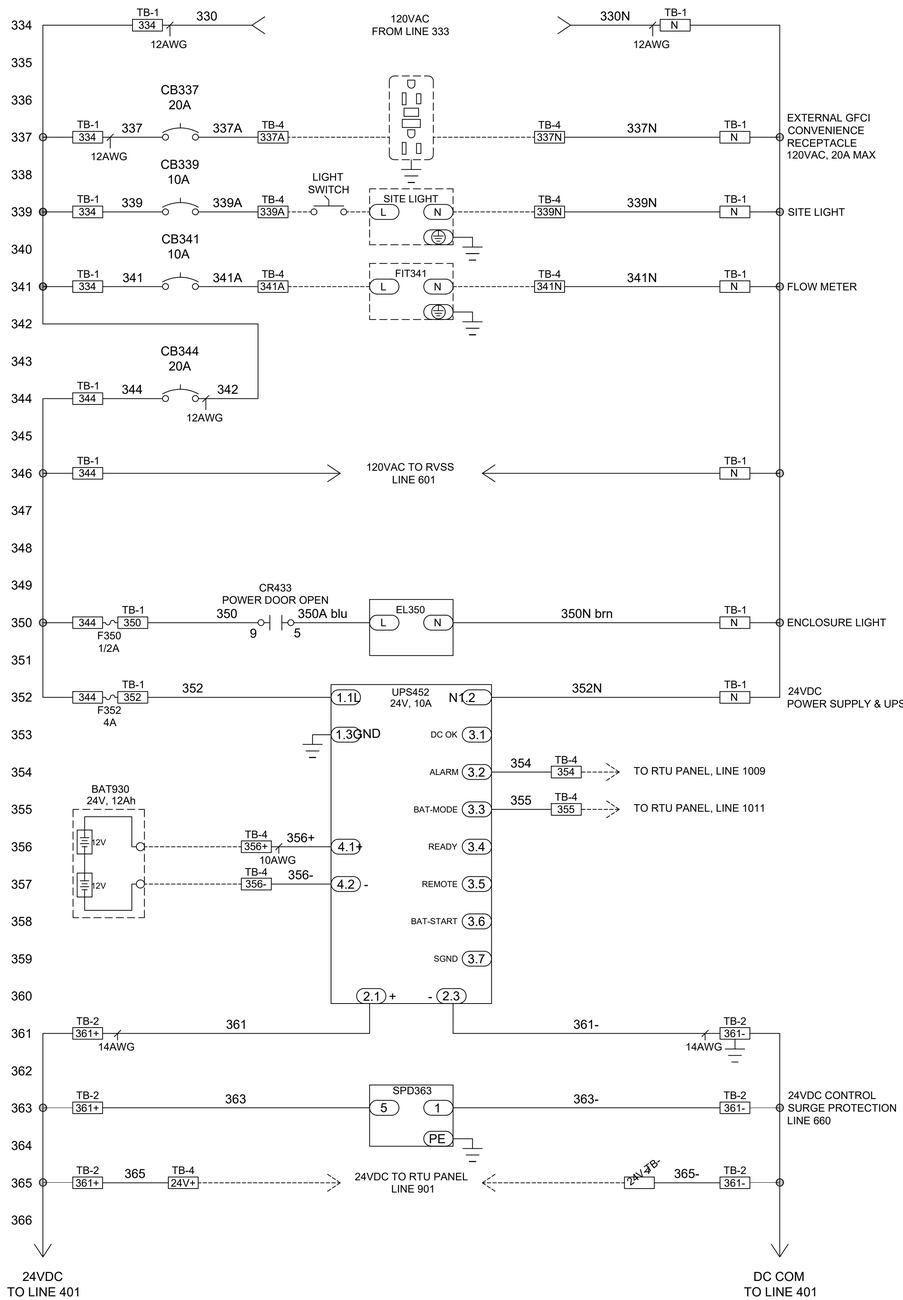
CUSTOMER SUPPLIED 480VAC 3PH 4W, 160A 60HZ
TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
MCB LINE ACCEPTS 1x 14-10AWG (44 LB-IN) 8-3/0 (123 LB-IN)
MCB LOAD ACCEPTS 6x 14-10AWG (20 LB-IN) 4-8AWG (35 LB-IN)

SUITABLE FOR USE AS SERVICE EQUIPMENT.
BOND NEUTRAL TO GROUND PER NEC.



LS NUMBER	RVSS1/RVSS2	MCB / ECB	PCB1 / PCB2	PUMP1 / PUMP2	PUMP1 / PUMP2
LS-54	15 HP	100 A	40 A	15 HP	21 A
LS-55	20 HP	100 A	60 A	20 HP	27 A

120VAC DISTRIBUTION



480V, 3 PHASE, RVSS
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

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480V, 3 PHASE, RVSS
CONTROL PANEL (POWER)
WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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FLOAT MODE CONTROL
HIGH LEVEL CONTROL

24VDC FROM LINE 366

DC COM FROM LINE 366

401 — TB-2 361+ — 401 — VM344 480VAC — 1 — 3 — 401A — 480VAC OK 24VDC CR 1340114 — 401- — TB-2 361- — VOLTAGE MONITOR STATUS RELAY LINES 434, 451, 658

402

403 — TB-2 361+ — 403 — POWER ON 24VDC TR 240310 — 403- — TB-2 361- — POWER ON STATUS RELAY "MODE A" LINES 405, 429

404

405 — TB-4 24V+ — SS1205 CONTROL MODE FLOAT/RADAR — OX — TB-4 405 — 405 — TR403 POWER ON — 1 — 3 — FLOAT MODE 24VDC CR 1340514 — 405- — TB-2 361- — FLOAT MODE RELAY LINES 409, 411, 436, 454

406 — CR1048 PLC OK — 9 — 1 — FLOAT MODE 24VDC CR 1340714 — 407 — 407- — FLOAT MODE RELAY LINES 556, 650

407

408 — PB1209 RESET — TB-4 409 — 409 — CR405 FLOAT MODE — 9 — 5 — 409A

409

410 — CR405 FLOAT MODE

411 — TB-2 361+ — 411 — 10 — 6 — 411A — TB-4 411A — 24VDC A 24V-PL1211 — TB-4 — FLOAT MODE STATUS LIGHT

412 — PB1209 RESET

413 — TB-4 24V+ — CR1046 PLC HIGH LEVEL RESET — 9 — 5 — TB-4 413 — 413 — LATCH RESET 24VDC CR 1341314 — 413- — TB-2 361- — HIGH LEVEL LATCH RESET LINES 416, 417

414

415 — CR503 HIGH LEVEL — CR413 LATCH RESET — LR416

416 — TB-2 361+ — 416 — 9 — 1 — 416A — 9 — CR413 — 1 — 416B — B LATCH A — 24VDC — 2 — 416C — CR413 — 10 — 416- — TB-2 361- — HIGH LEVEL LATCHING RELAY LINES 419, 426

417 — 9 — 5 — 416B — A RESET B — 6 — 417C — CR413 — 10

418 — CR1044 PLC HORN SILENCE / RESET — LR416 HIGH LEVEL LATCH — PB419 HORN SILENCE

419 — TB-2 361+ — 419 — 7 — 1 — 419A — TB-4 419A — 9 — 1 — TB-4 419B — 419B — 419C — HORN SILENCE 24VDC CR 1341914 — 419- — TB-2 361- — HORN SILENCE RELAY LINES 421, 423, 654

420

421 — CR419 HORN SILENCE — 421 — 9 — 5 — 421A

422 — CR419 HORN SILENCE — 9 — 1 — 422A — TB-2 423A — 423A gry — 423- blu — TB-2 361- — HIGH LEVEL ALARM HORN

423

424 — TB-2 424A wht — 424A — COLOR 3 - WHITE

425 — LR416 HIGH LEVEL LATCH — TB-2425A brn — 425A — COLOR 2 - BLUE

426 — TB-2 361+ — 426 — 9 — 3 — 426A — TB-2 426A — 426A blk — COLOR 1 - RED — HIGH LEVEL ALARM RED BEACON

427 — CR503 HIGH LEVEL — M12 CONNECTOR TO HIGH LEVEL ALARM — 5x22AWG

428 — TB-2 361+ — 428 — 10 — 2 — 428A

429 — TR403 POWER ON — HIGH LEVEL BACKUP 24VDC

430 — TB-2 361+ — 430 — 11 — 9 — 430A — 8 — TR 243010 — 430- — TB-2 361- — HIGH LEVEL BACKUP RELAY "MODE E" LINES 440, 457

431

432 — SW433 POWER DOOR SWITCH — POWER DOOR OPEN 24VDC

433 — TB-2 361+ — 433 — 433A — CR 1343314 — 433- — TB-2 361- — POWER DOOR OPEN STATUS RELAY LINES 350, 656

24VDC TO LINE 434

DC COM TO LINE 434

PUMP CONTROL

24VDC FROM LINE 433

DC COM FROM LINE 433

434 — TB-4 24V+ — SS1234 P1 HOA — HAND/AUTO — XOO — TB-4 434 — 434 — 9 — CR401 480VAC OK — 5 — 434A — 9 — CR540 P1 TEMP — 5 — 434B — P1 RUN CMD 24VDC CR 1343414 — 434- — TB-2 361- — PUMP 1 RUN CMD RELAY LINE 605

435

436 — CR1036 P1 PLC START — TB-4 436 — 9 — 5 — TB-4 436A — CR405 FLOAT MODE — 11 — 3 — 436B — OOX — RADAR MODE

437 — CR558 P1 FLOAT START — 438 — 9 — 5 — 438A — FLOAT MODE

438

439 — TR430 HIGH LEVEL BACKUP — 440 — 1 — 3 — 440A — HIGH LEVEL BACKUP

440

441 — TB-2 361+ — 441 — SS346 P1 RVSS — R1C — R1A — 441A — P1 RUNNING 24VDC CR 1344114 — 441- — TB-2 361- — PUMP 1 RUNNING STATUS RELAY LINES 443, 445, 634

442

443 — TB-2 361+ — CR441 P1 RUNNING — 9 — 5 — 443A — TB-4 443A — HM1240 24VDC HM — 24V-TB- — PUMP 1 RUNNING HOUR METER

444

445 — TB-2 361+ — CR441 P1 RUNNING — 10 — 6 — 445A — TB-4 445A — PL1242 24VDC G — 24V-TB- — PUMP 1 RUNNING STATUS LIGHT

446

447 — TB-2 361+ — CR536 P1 SEAL — 9 — 5 — 447A — TB-4 447A — PL1245 24VDC A — 24V-TB- — PUMP 1 SEAL FAIL STATUS LIGHT

448

449 — TB-2 361+ — CR540 P1 TEMP — 10 — 6 — 449A — TB-4 449A — PL1248 24VDC A — 24V-TB- — PUMP 1 OVER TEMP STATUS LIGHT

450

451 — TB-4 24V+ — SS1251 P2 HOA — HAND/AUTO — XOO — TB-4 451 — 451 — 10 — CR401 480VAC OK — 6 — 451A — 9 — CR551 P2 TEMP — 5 — 451B — P2 RUN CMD 24VDC CR 1345114 — 451- — TB-2 361- — PUMP 2 RUN CMD RELAY LINE 622

452

453 — CR1040 P2 PLC START — TB-4 453 — 9 — 5 — TB-4 453A — CR405 FLOAT MODE — 12 — 4 — 453B — OOX — RADAR MODE

454 — CR560 P2 FLOAT START — 455 — 9 — 5 — 455A — FLOAT MODE

455

456 — TR430 HIGH LEVEL BACKUP — 457 — 11 — 9 — 457A — HIGH LEVEL BACKUP

457

458 — TB-2 361+ — 458 — SS348 P2 RVSS — R1C — R1A — 458A — P2 RUNNING 24VDC CR 1345814 — 458- — TB-2 361- — PUMP 2 RUNNING STATUS RELAY LINES 460, 462, 642

459

460 — TB-2 361+ — CR458 P2 RUNNING — 9 — 5 — 460A — TB-4 460A — HM1257 24VDC HM — 24V-TB- — PUMP 2 RUNNING HOUR METER

461

462 — TB-2 361+ — CR458 P2 RUNNING — 10 — 6 — 462A — TB-4 462A — PL1259 24VDC G — 24V-TB- — PUMP 2 RUNNING STATUS LIGHT

463

464 — TB-2 361+ — CR547 P2 SEAL — 9 — 5 — 464A — TB-4 464A — PL1262 24VDC A — 24V-TB- — PUMP 2 SEAL FAIL STATUS LIGHT

465

466 — TB-2 361+ — CR551 P2 TEMP — 10 — 6 — 466A — TB-4 466A — PL1265 24VDC A — 24V-TB- — PUMP 2 OVER TEMP STATUS LIGHT

24VDC TO LINE 501

DC COM TO LINE 501

480V, 3 PHASE, RVSS
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

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ENGINEERING BUSINESS NO. 2429
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10600 CHEVROLET WAY, SUITE 102
ESTERO, FLORIDA 33928
PHONE: (239) 390-1467

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CITY OF SANIBEL
800 Dunlop Road
Sanibel, Florida 33957

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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

480V, 3 PHASE, RVSS
CONTROL PANEL (POWER)
WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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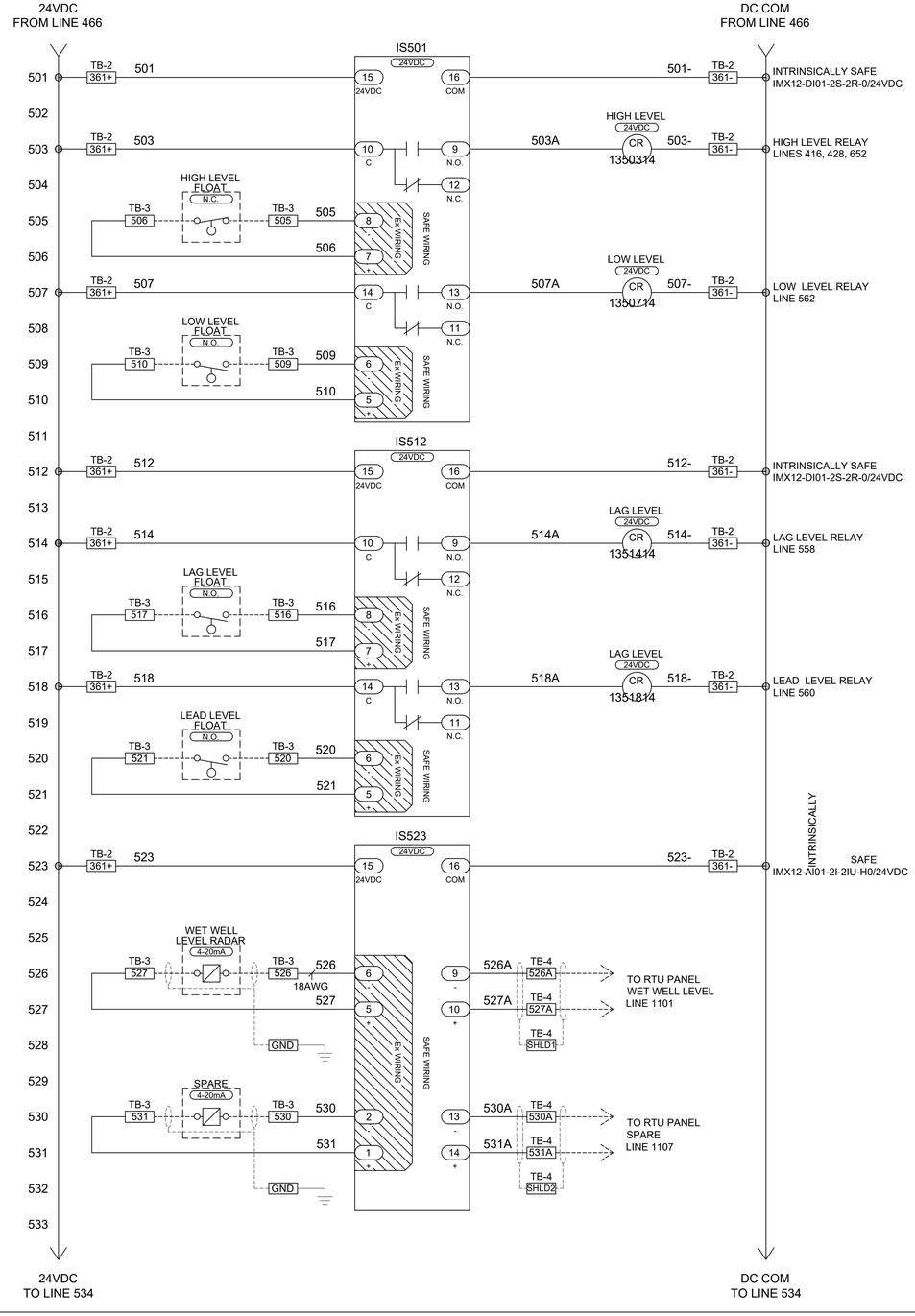
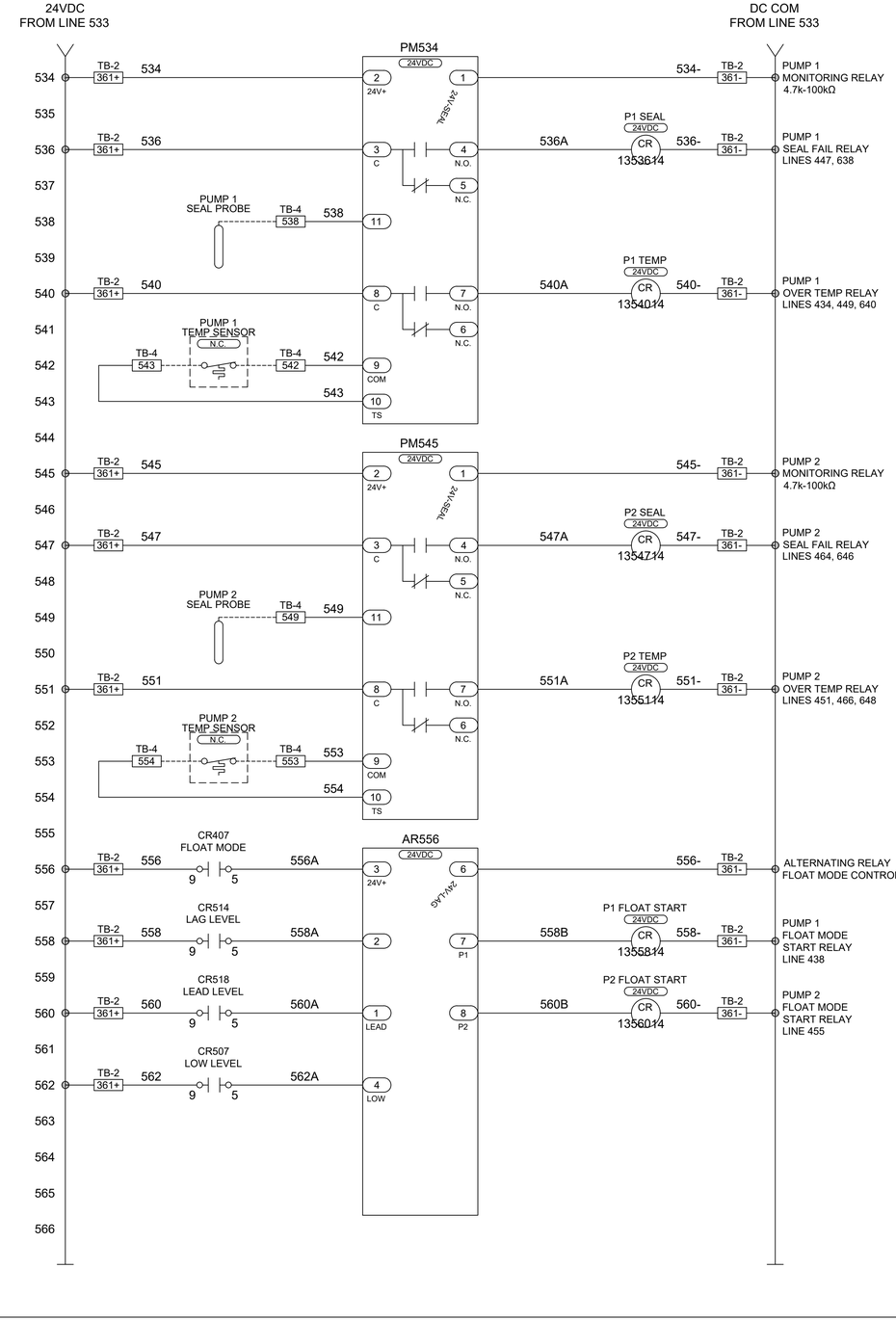
INTRINSICALLY SAFE BARRIERS



PUMP MONITORING
LEAD / LAG CONTROL



480V, 3 PHASE, RVSS
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

480V, 3 PHASE, RVSS CONTROL PANEL (POWER) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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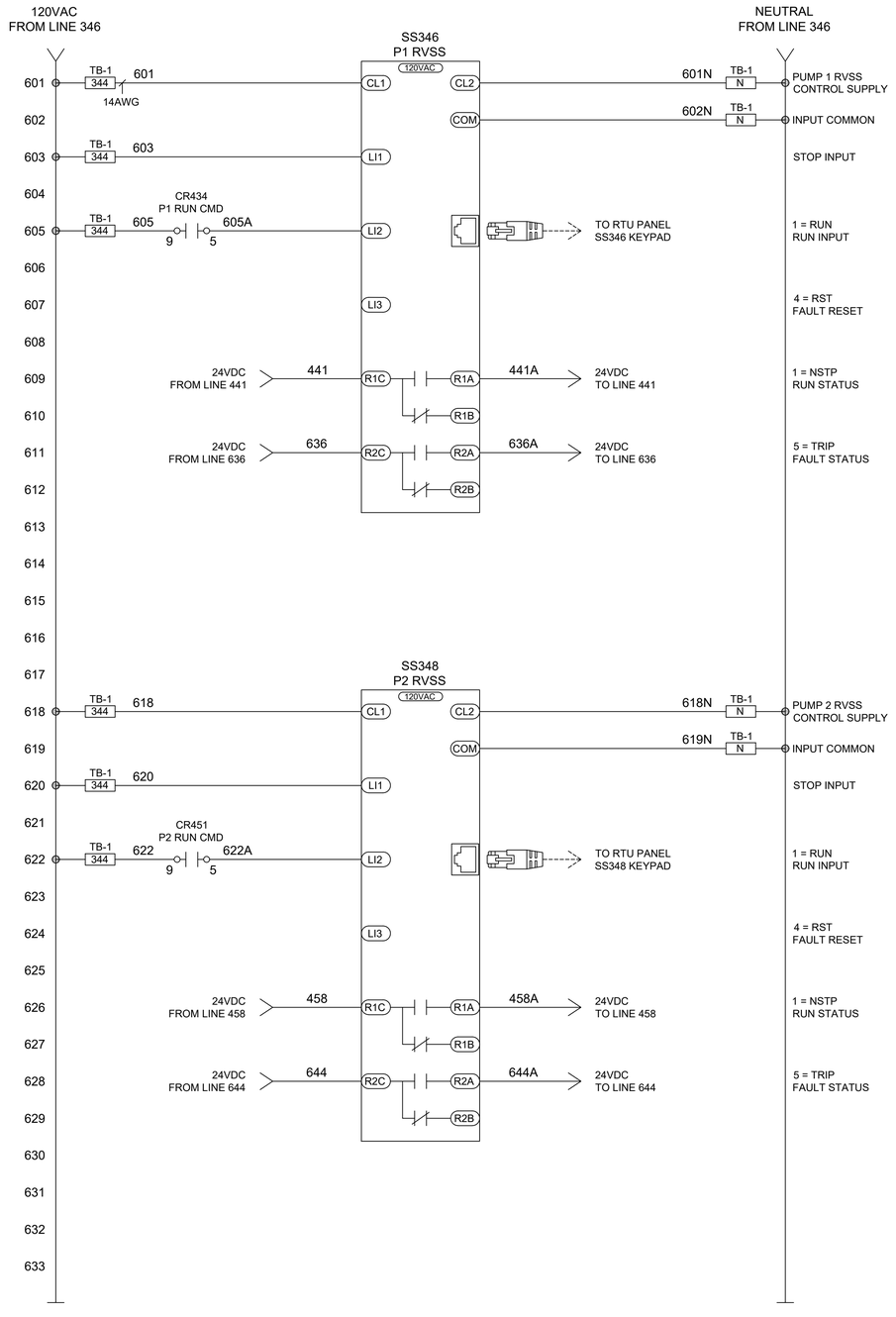
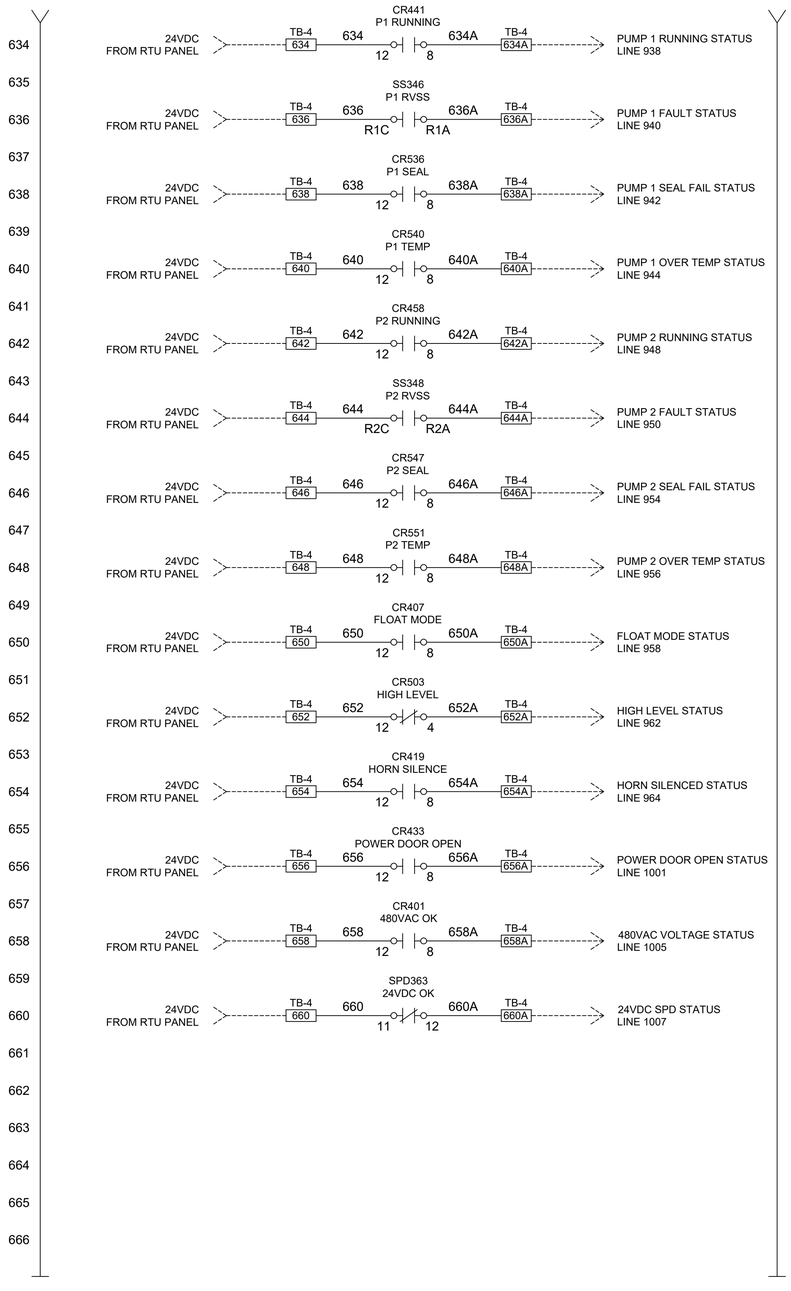


PLC STATUSES



480V, 3 PHASE, RVSS
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

480V, 3 PHASE, RVSS
CONTROL PANEL (POWER)
WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
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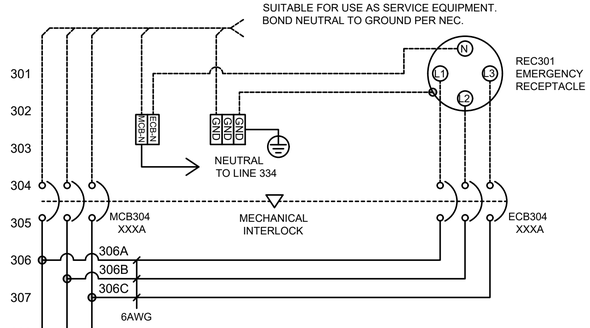
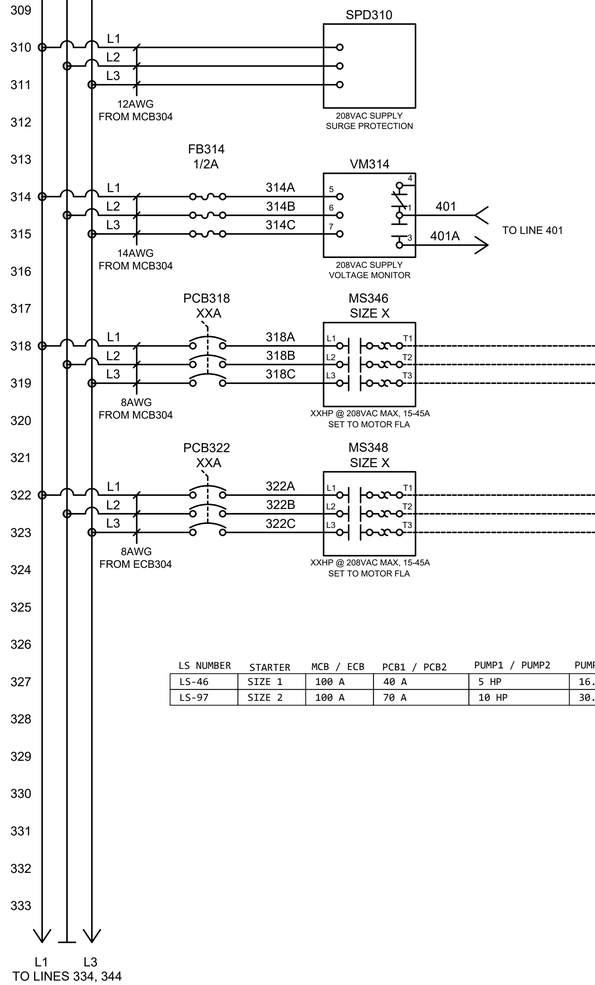
CUSTOMER SUPPLIED 208VAC 3PH 4W, 80A 60HZ
TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
MCB LINE ACCEPTS 1x 14-10AWG (44 LB-IN) 8-3/0 (123 LB-IN)
MCB LOAD ACCEPTS 6x 14-10AWG (20 LB-IN) 6-8AWG (24 LB-IN)

SUITABLE FOR USE AS SERVICE EQUIPMENT.
BOND NEUTRAL TO GROUND PER NEC.



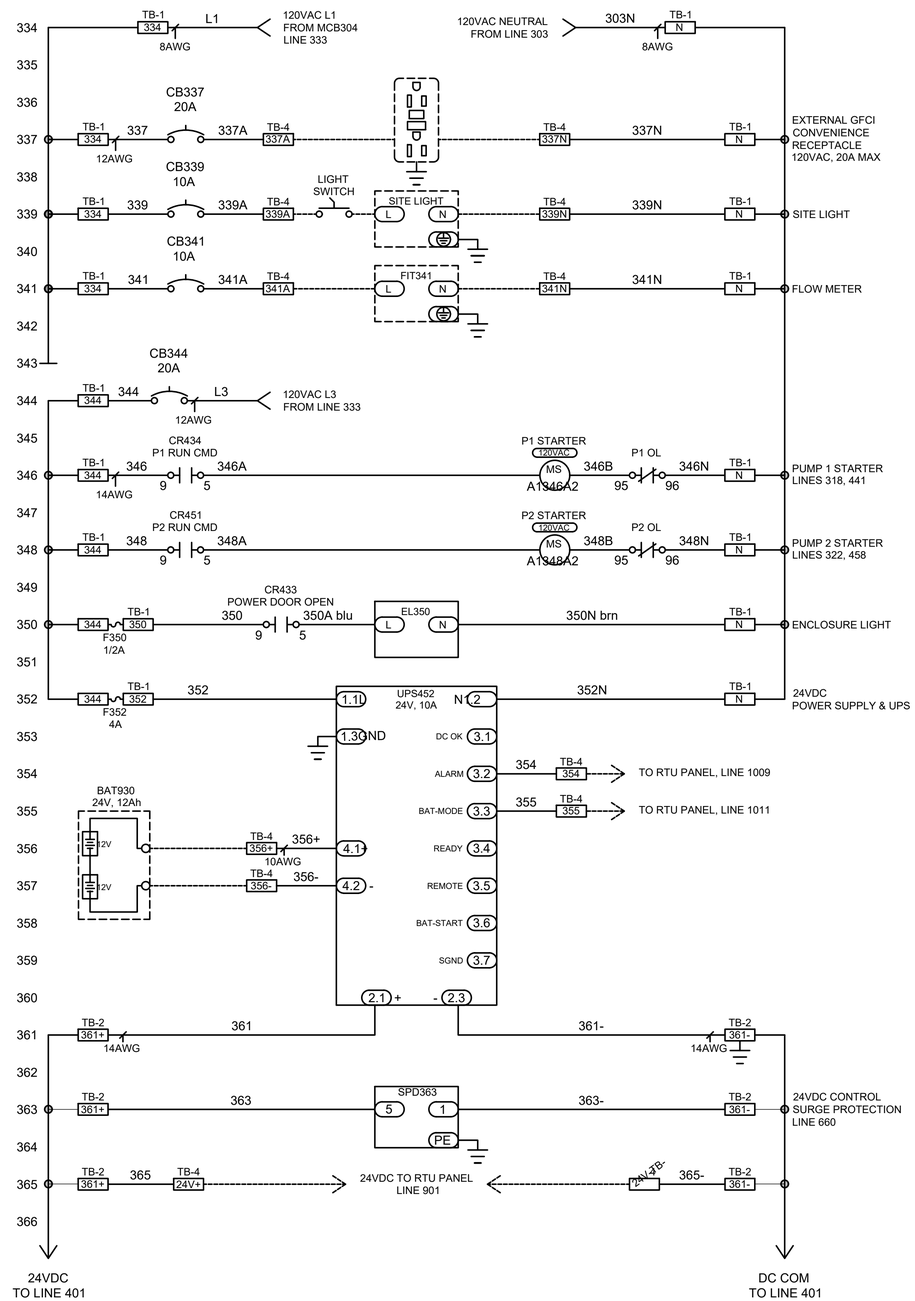


LS NUMBER	STARTER	MCB / ECB	PCB1 / PCB2	PUMP1 / PUMP2	PUMP1 / PUMP2
LS-46	SIZE 1	100 A	40 A	5 HP	16.7 A
LS-97	SIZE 2	100 A	70 A	10 HP	30.8 A

L1
TO LINES 334, 344

L3

120VAC DISTRIBUTION



208V, 3 PHASE, STARTER
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

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Sanibel, Florida 33957

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
208V, 3 PHASE, STARTER CONTROL PANEL (POWER) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
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Checked By:	JDM

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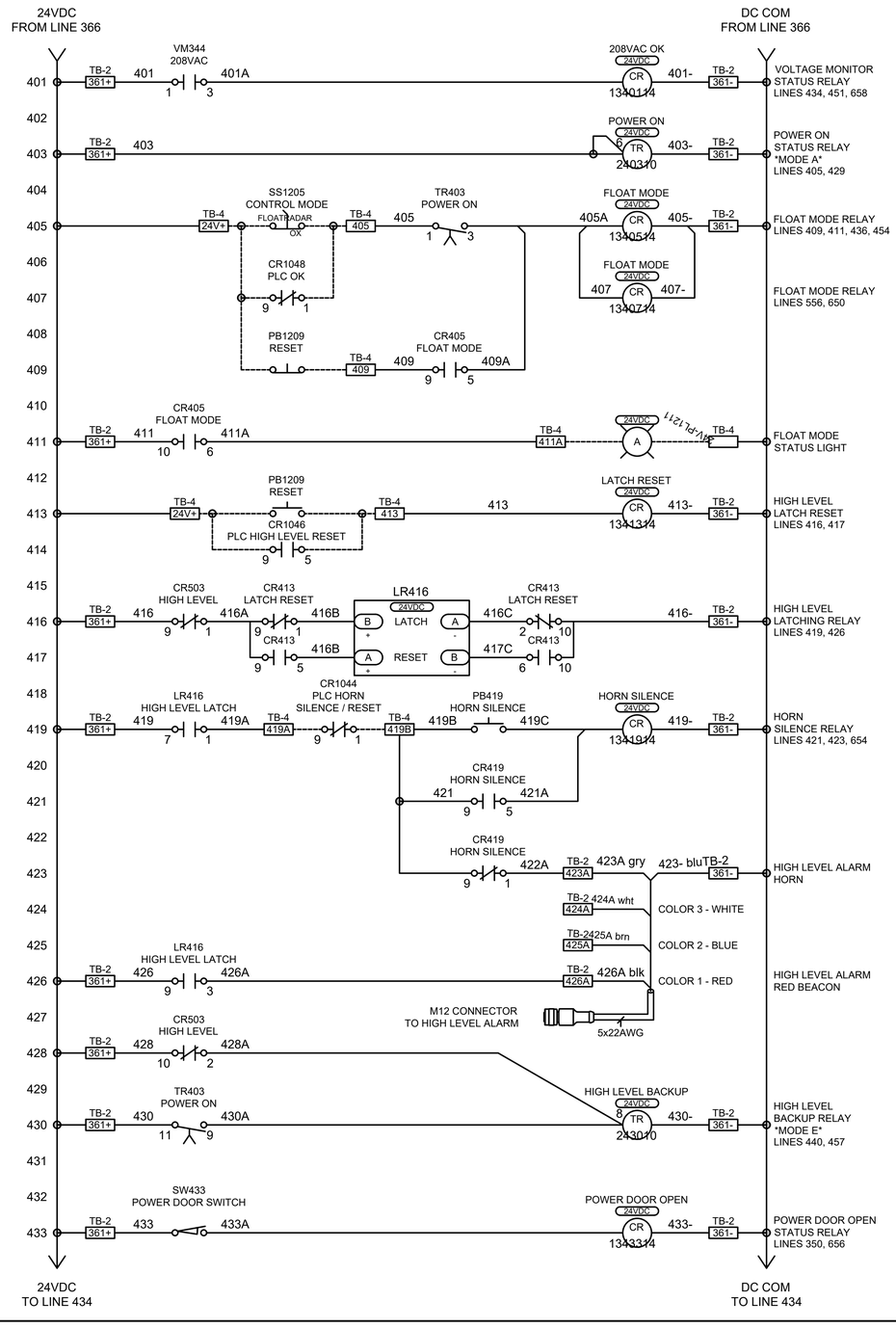
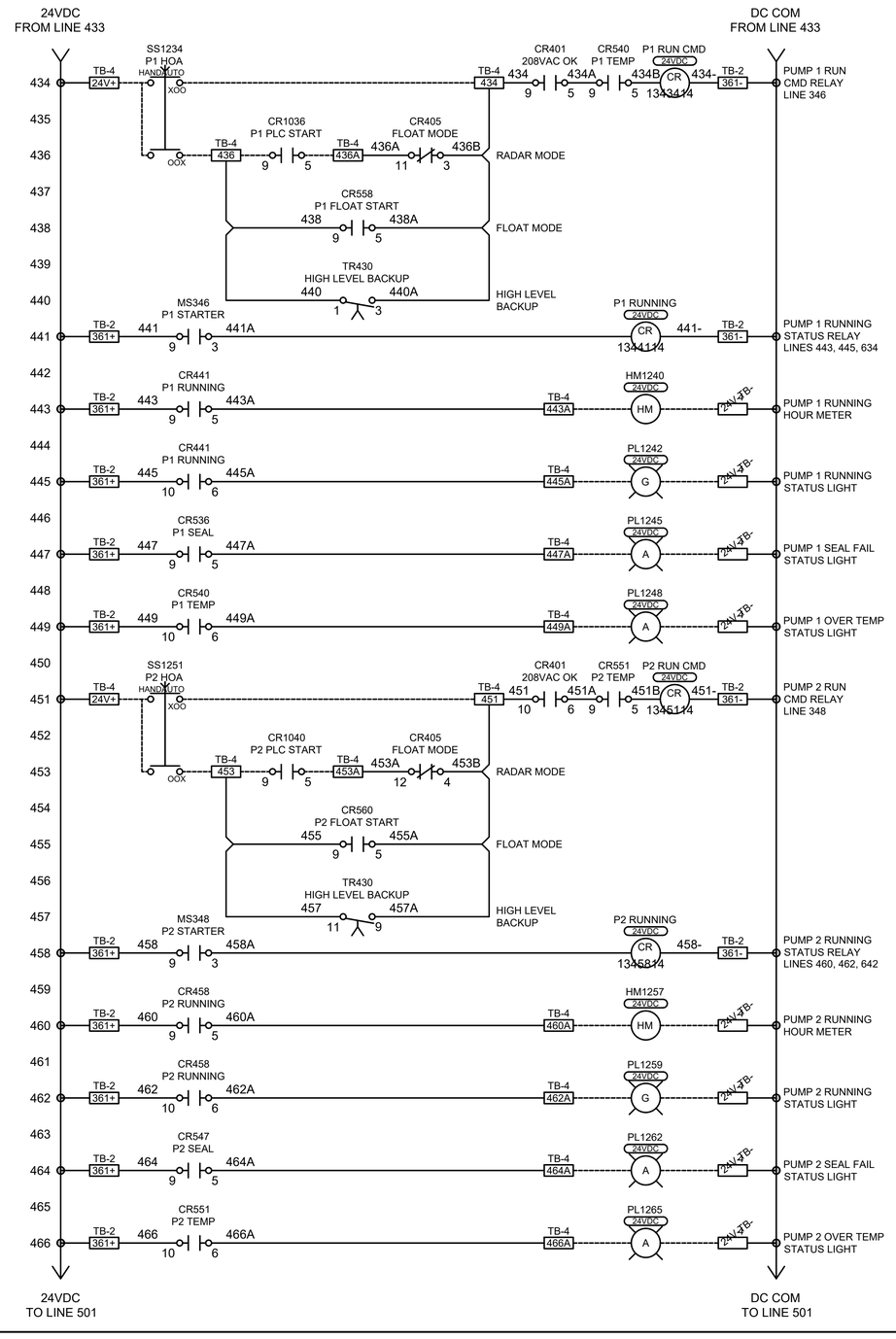
FLOAT MODE CONTROL
HIGH LEVEL CONTROL



PUMP CONTROL



208V, 3 PHASE, STARTER
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

SCALE: NTS

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208V, 3 PHASE, STARTER CONTROL PANEL (POWER) WIRING DIAGRAM

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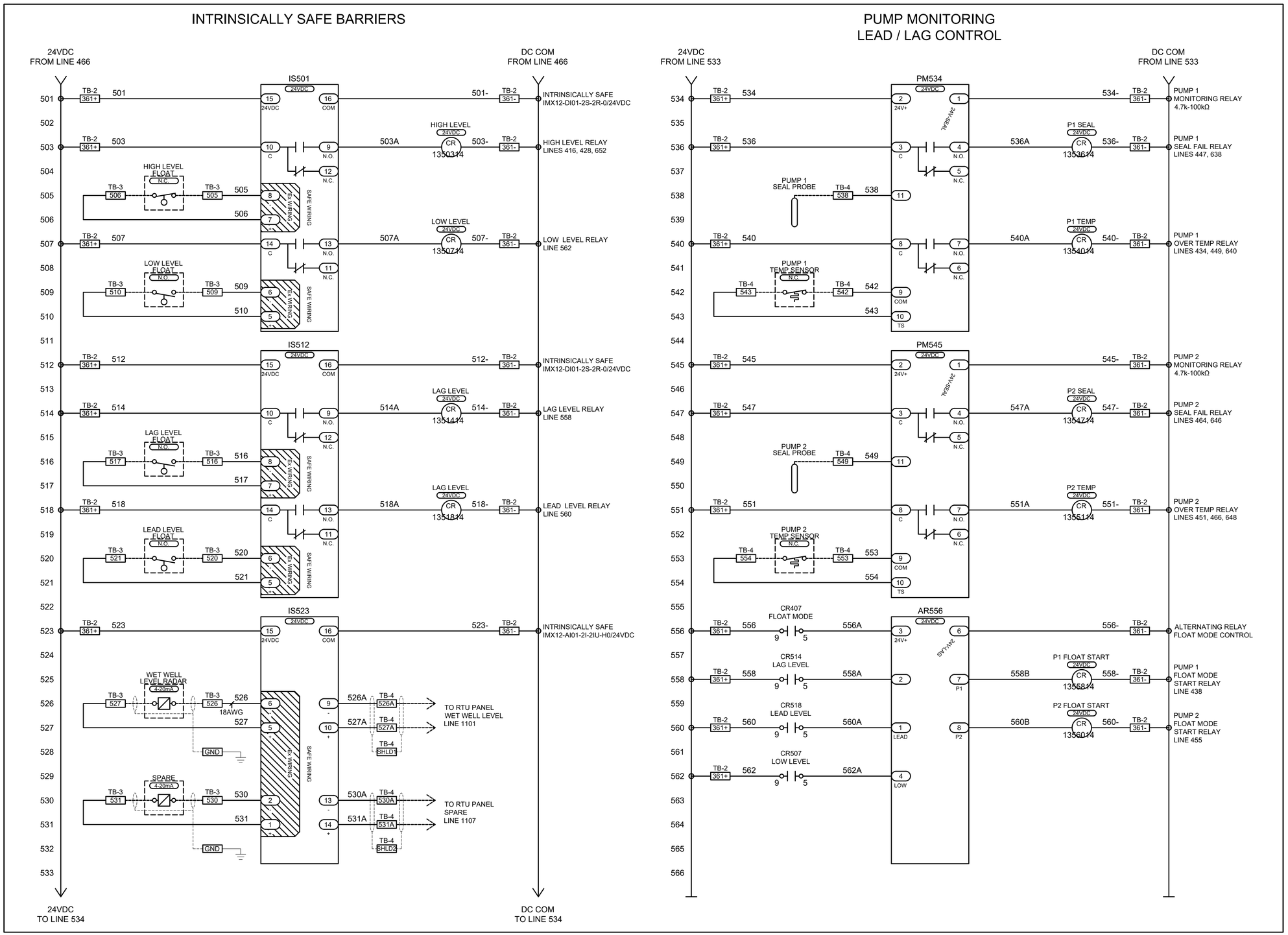

208V, 3 PHASE, STARTER PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

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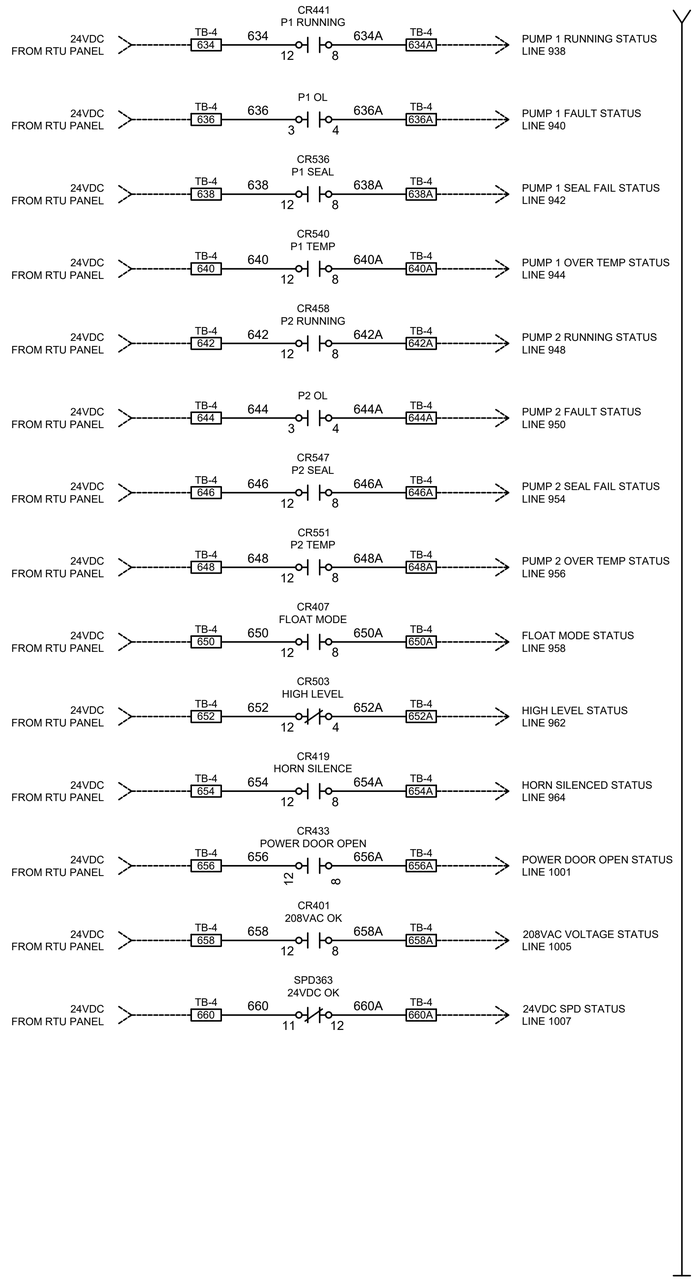
RESERVED

PLC STATUSES



208V, 3 PHASE, STARTER
PUMP CONTROL PANEL (POWER PANEL) WIRING DIAGRAM

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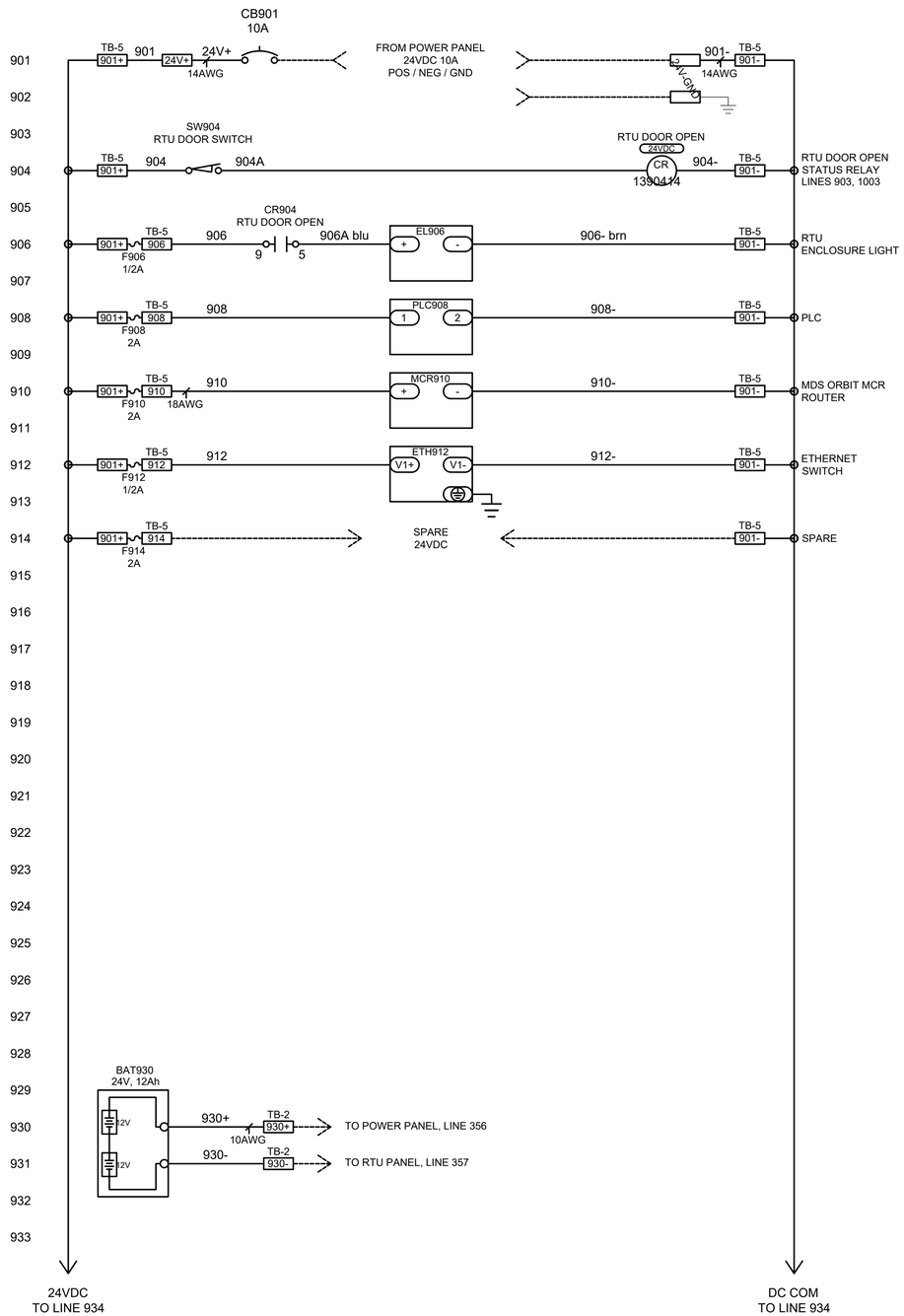

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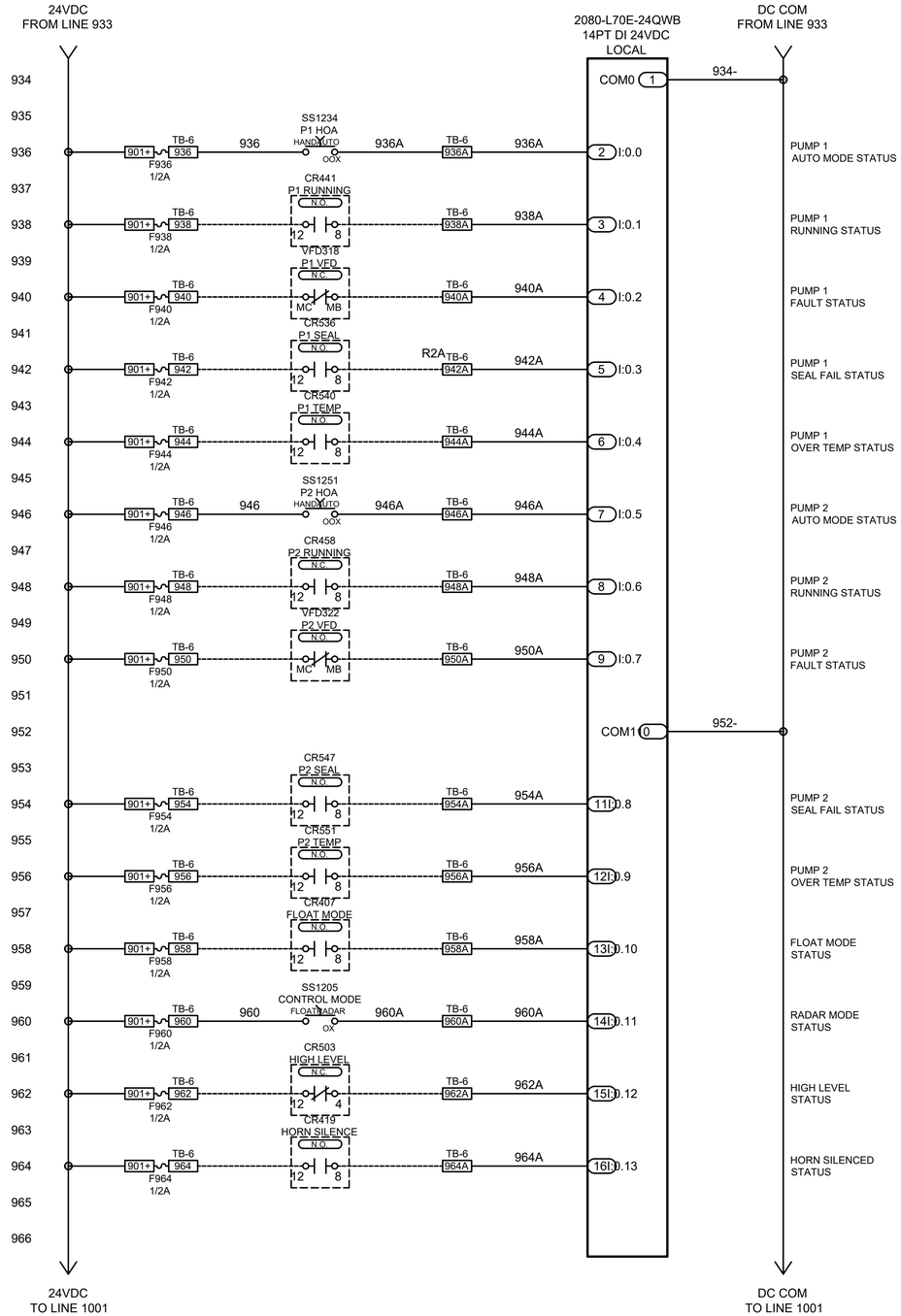

PUMP CONTROL PANEL
(CONTROLS PANEL) - WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

TETRA TECH
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www.tetratech.com
10600 CHEVROLET WAY, SUITE 102
ESTERO, FLORIDA 33928
PHONE: (239) 390-1467

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CITY OF SANIBEL
800 Dunlop Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
PUMP CONTROL PANEL (CONTROLS PANEL) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-361
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Bar Measures 1 inch

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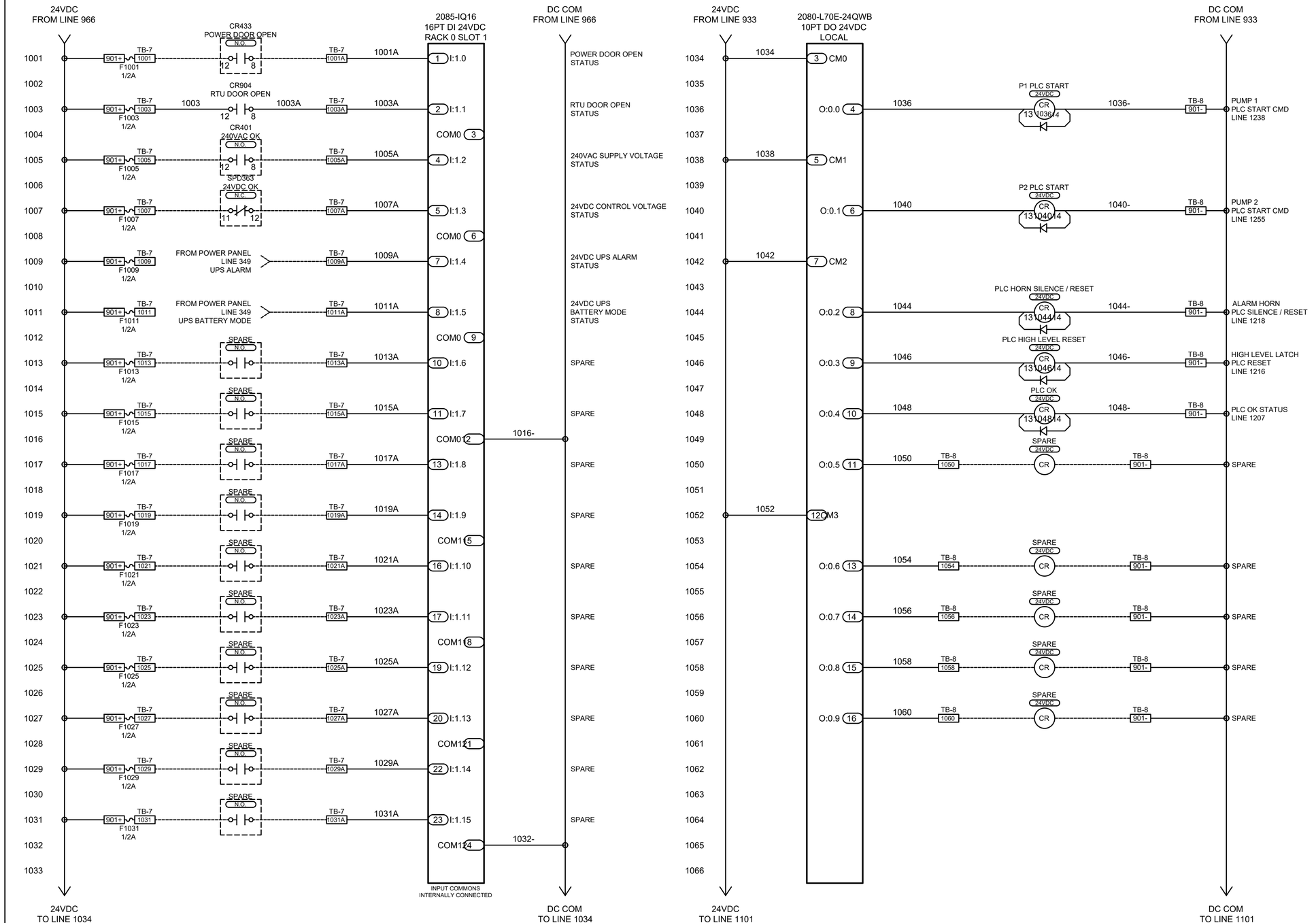
SLOT 1 DIGITAL INPUT

LOCAL DIGITAL OUTPUT



PUMP CONTROL PANEL (CONTROLS PANEL) - WIRING DIAGRAM

SCALE: NTS

NOTES:

1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

PUMP CONTROL PANEL (CONTROLS PANEL) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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Bar Measures 1 inch

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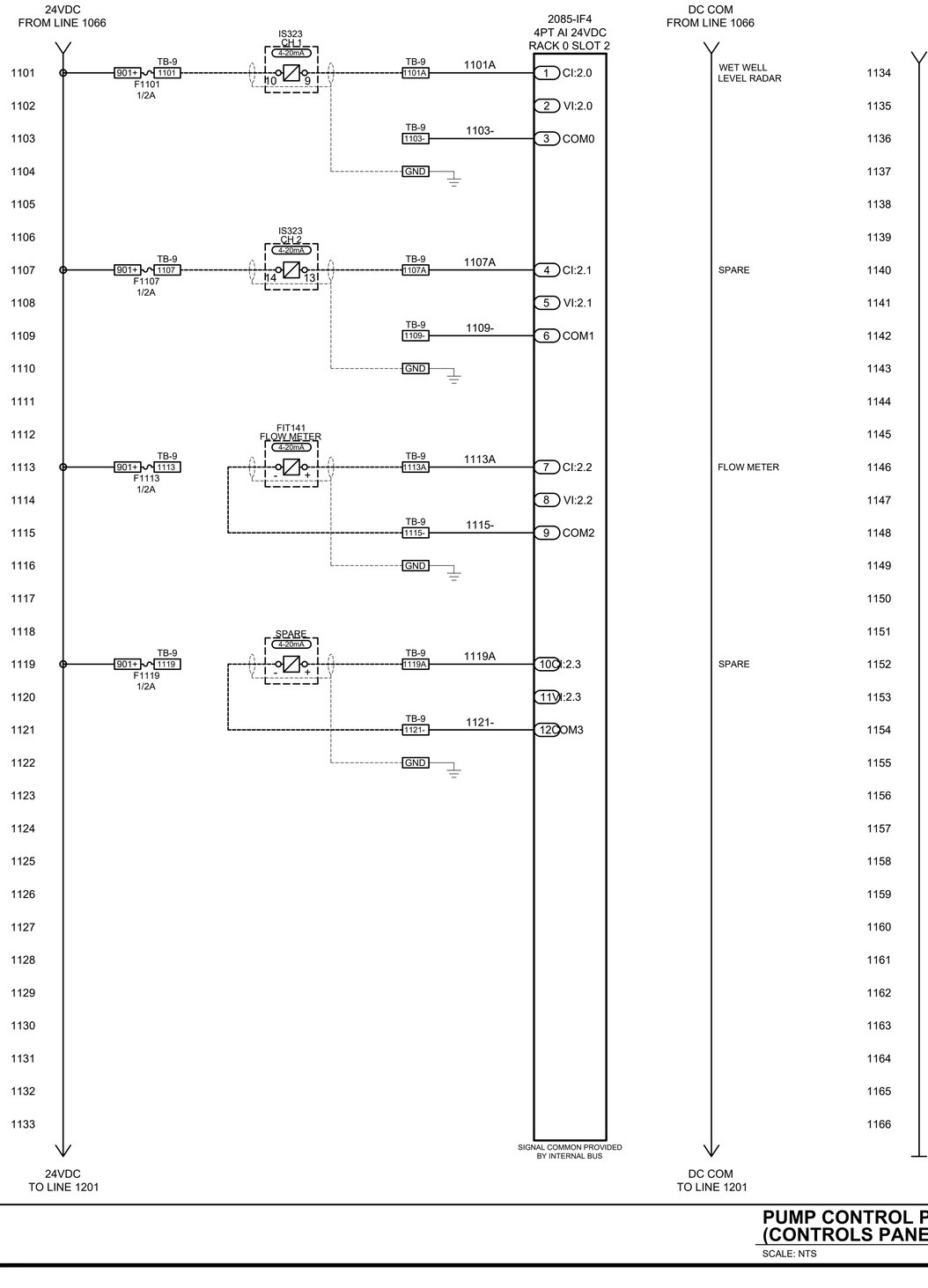
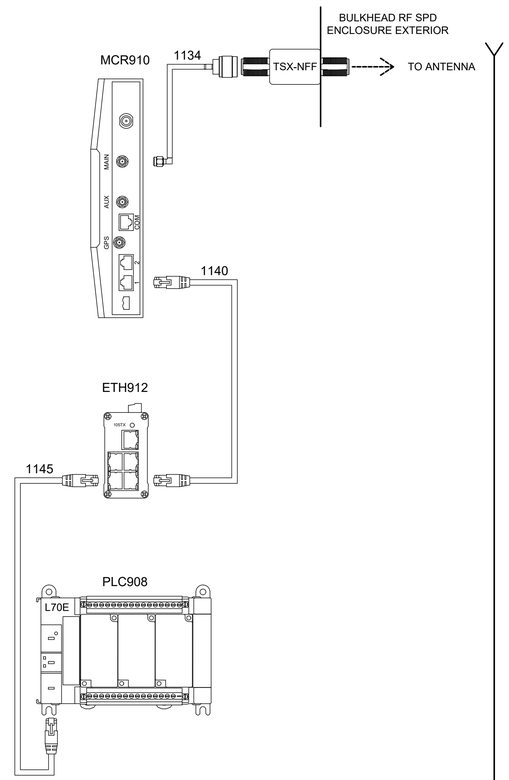
SLOT 2 ANALOG INPUT



NETWORK



NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
2. PROGRAMING OF PLC SHALL BE BY OTHERS UNDER ANOTHER PROJECT.

PUMP CONTROL PANEL
(CONTROLS PANEL) - WIRING DIAGRAM

SCALE: NTS

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

PUMP CONTROL PANEL (CONTROLS PANEL) WIRING DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
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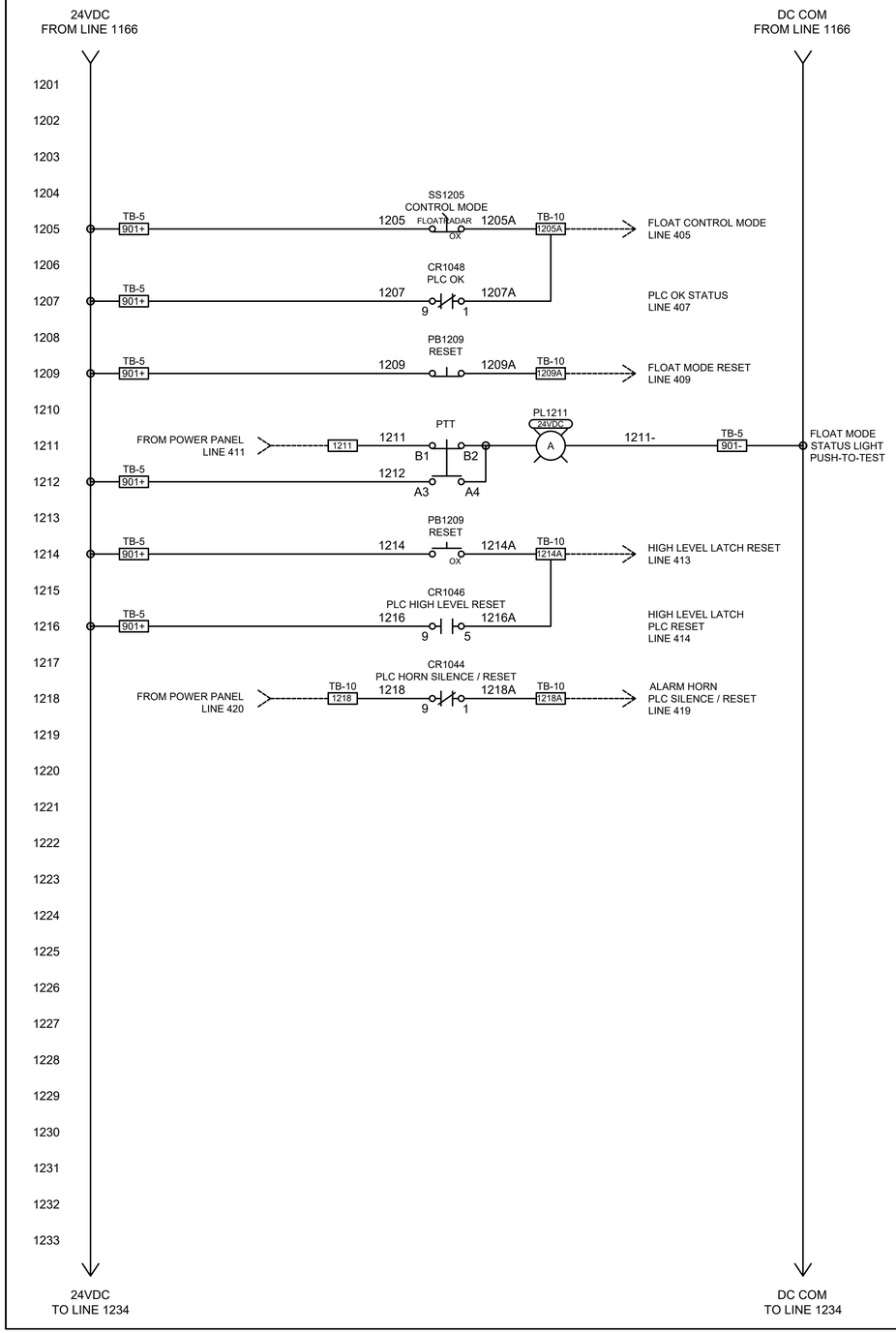
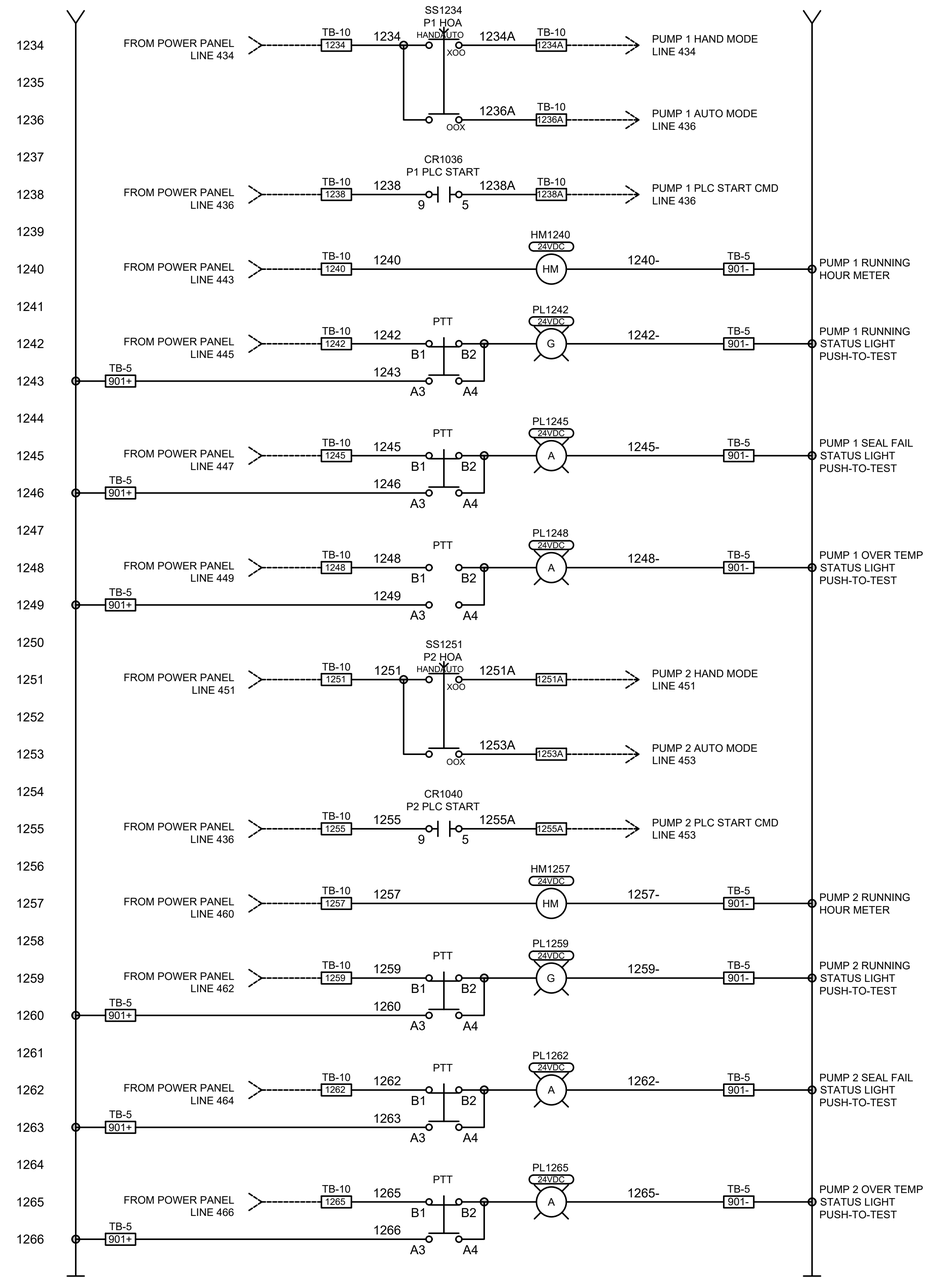
Bar Measures 1 inch

FLOAT MODE CONTROL
HIGH LEVEL CONTROL



PUMP CONTROL



PUMP CONTROL PANEL (CONTROLS PANEL) - WIRING DIAGRAM

SCALE: NTS

NOTES:
1. FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.

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THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

PUMP CONTROL PANEL (CONTROLS PANEL) WIRING DIAGRAM

Project No.:	200-08498-24002
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Checked By:	JDM

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Bar Measures 1 inch

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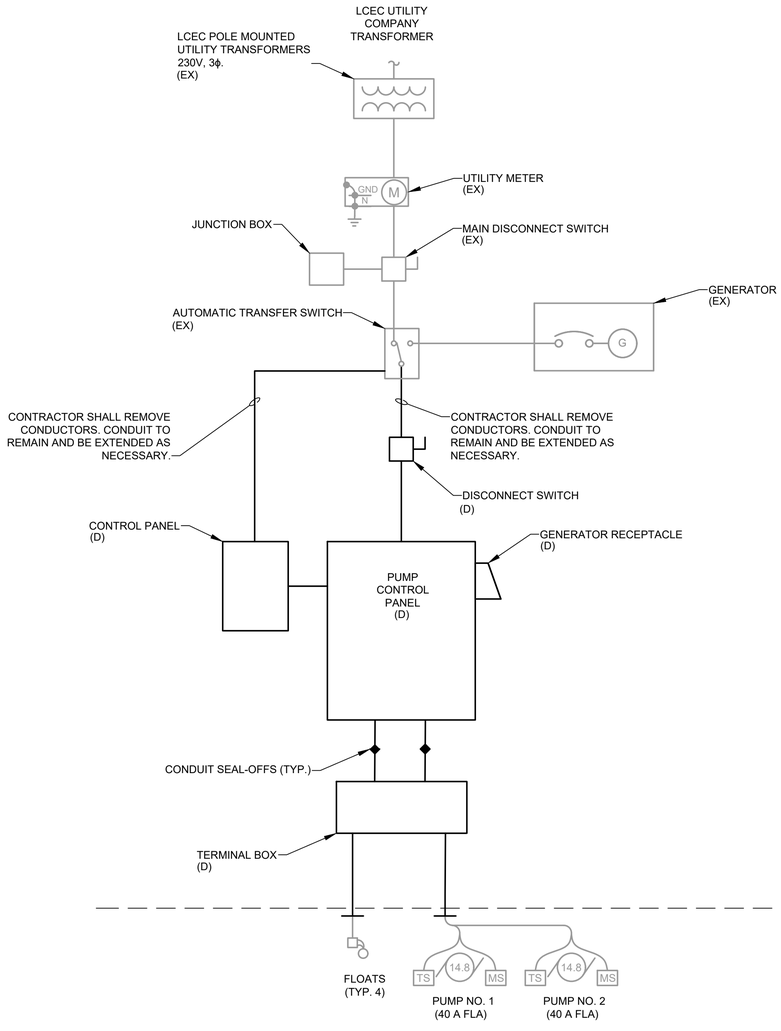

LIFT STATION NO 05
SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NTS

DEMOLITION LEGEND

HATCHED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 05
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
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Bar Measures 1 inch

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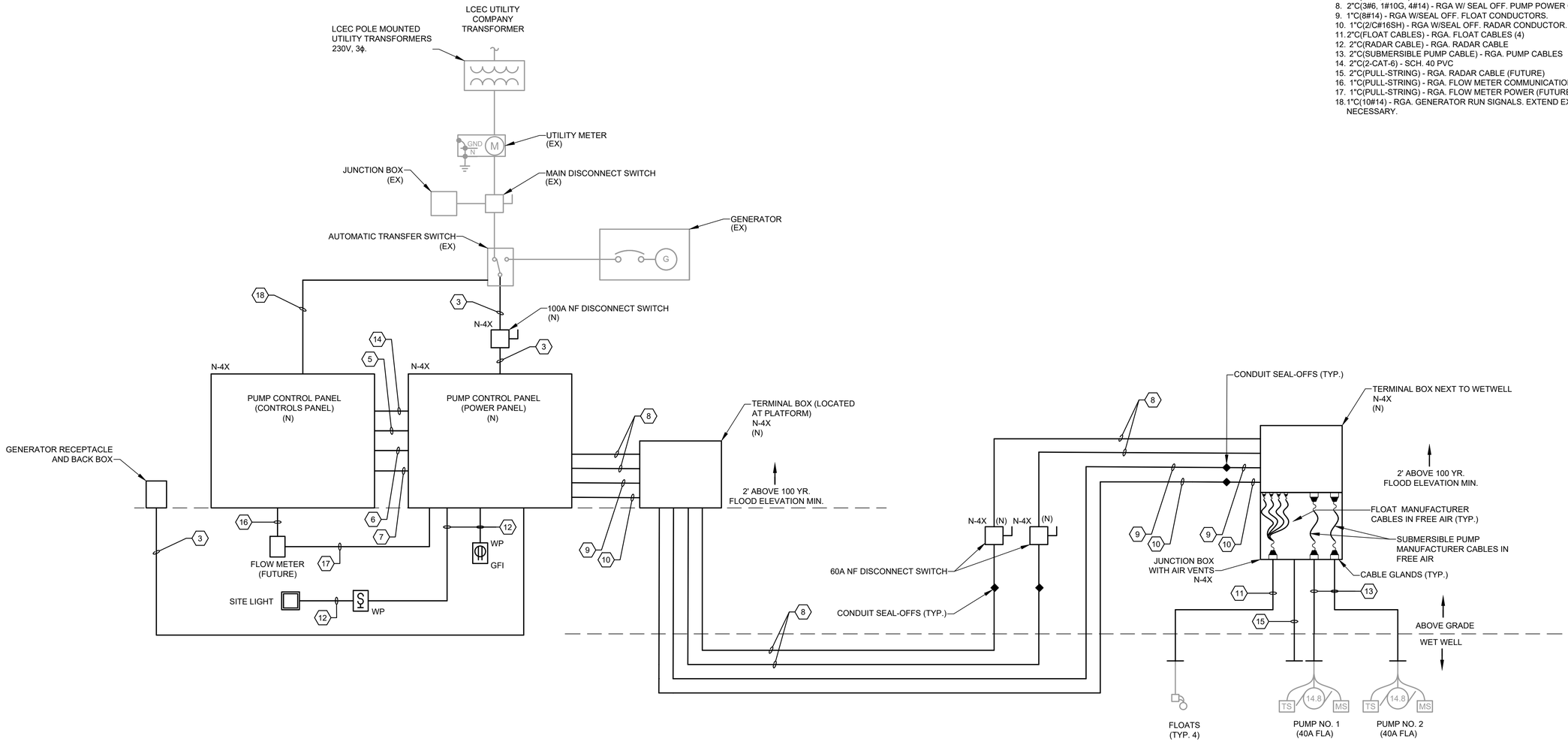

1 KEY NOTES:

1. NOT USED
2. NOT USED
3. 2"C(4#1 AWG, 1#6G) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY
4. NOT USED
5. 2"C(56#14) - SCH. 40 PVC
6. 1"C(2-2/C#16SH) - SCH. 40 PVC
7. 1"C(2#10, 1#10G) - SCH. 40 PVC
8. 2"C(3#6, 1#10G, 4#14) - RGA W/ SEAL OFF. PUMP POWER CONDUCTORS.
9. 1"C(8#14) - RGA W/SEAL OFF. FLOAT CONDUCTORS.
10. 1"C(2/C#16SH) - RGA W/SEAL OFF. RADAR CONDUCTOR.
11. 2"C(FLOAT CABLES) - RGA. FLOAT CABLES (4)
12. 2"C(RADAR CABLE) - RGA. RADAR CABLE
13. 2"C(SUBMERSIBLE PUMP CABLE) - RGA. PUMP CABLES
14. 2"C(2-CAT-6) - SCH. 40 PVC
15. 2"C(PULL-STRING) - RGA. RADAR CABLE (FUTURE)
16. 1"C(PULL-STRING) - RGA. FLOW METER COMMUNICATION (FUTURE)
17. 1"C(PULL-STRING) - RGA. FLOW METER POWER (FUTURE)
18. 1"C(10#14) - RGA. GENERATOR RUN SIGNALS. EXTEND EXISTING CONDUIT AS NECESSARY.

LIFT STATION NO 05
SINGLE LINE DIAGRAM - PROPOSED

SCALE: NTS

CITY FURNISHED LIST

EQUIPMENT FURNISHED BY CITY AND INSTALLED BY CONTRACTOR
1. PUMP CONTROL PANEL (CONTROLS PANEL)
2. GENERATOR RECEPTACLE AND BACK BOX
3. PUMP CONTROL PANEL (POWER PANEL)
4. TERMINAL BOX (LOCATED AT WETWELL)
5. JUNCTION BOX WITH AIR VENTS

ALL OTHER EQUIPMENT DENOTED NEW ON ELECTRICAL PLANS TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

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800 Dunlop Road
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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 05
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-602
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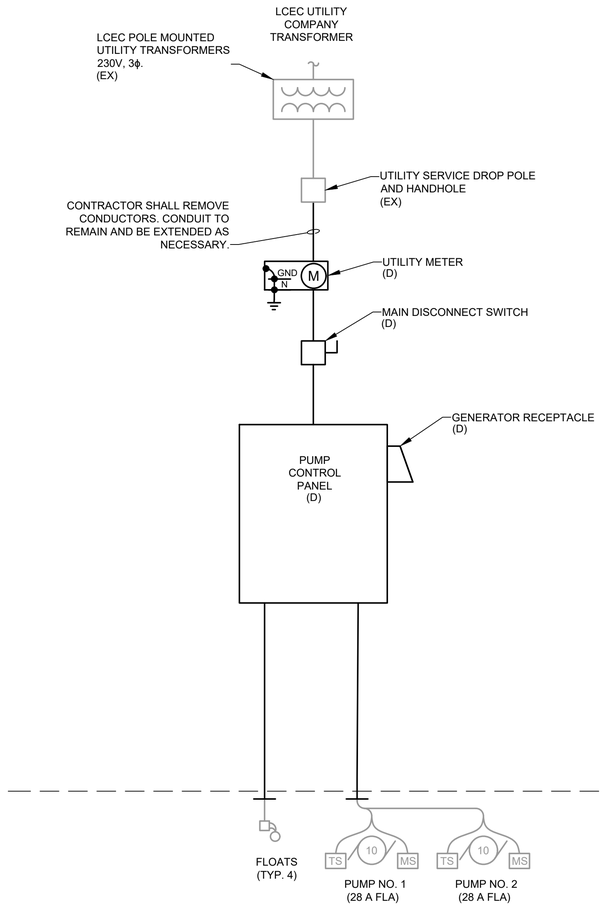

LIFT STATION NO 14
SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NTS

DEMOLITION LEGEND

HATCHED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
LIFT STATION 14
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-611
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Bar Measures 1 inch

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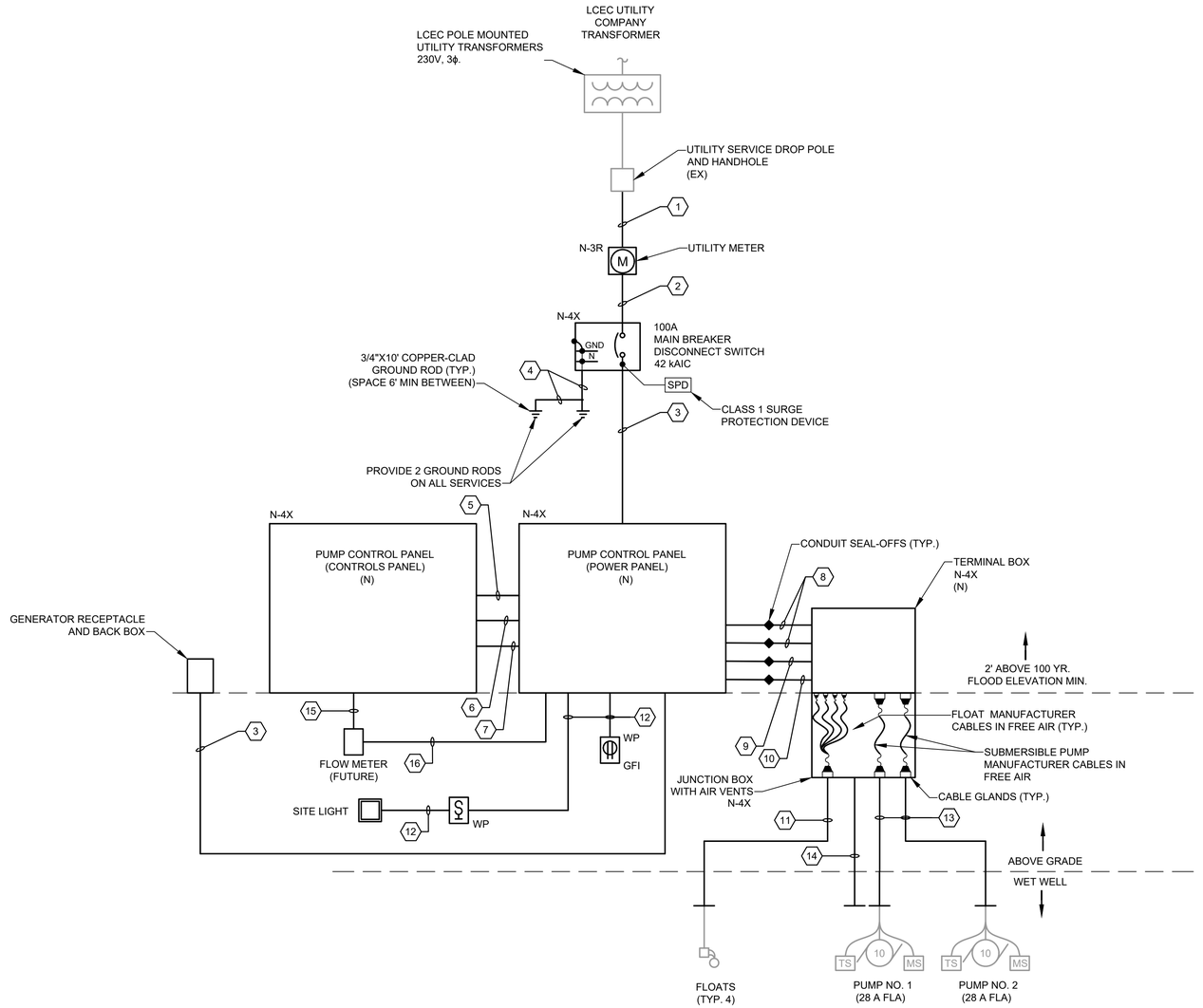

1 KEY NOTES:

1. 2"C(4#1 AWG) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY.
2. 2"C(4#1 AWG) - SCH. 80 PVC
3. 2"C(4#1 AWG, 1#6G) - SCH. 80 PVC
4. #4 AWG BARE COPPER. SLEEVE IN SCH. 80 PVC FROM FIRST GROUND ROD TO CIRCUIT BREAKER DISCONNECT SWITCH.
5. 2"C(56#14) - SCH. 40 PVC
6. 1"C(2-2/C#16SH) - SCH. 40 PVC
7. 1"C(2#10, 1#10G) - SCH. 40 PVC
8. 1"C(3#8, 1#10G, 4#14) - RGA W/ SEAL OFF. PUMP POWER CONDUCTORS.
9. 1"C(8#14) - RGA W/SEAL OFF. FLOAT CONDUCTORS.
10. 1"C(2/C#16SH) - RGA W/SEAL OFF. RADAR CONDUCTOR.
11. 2"C(FLOAT CABLES) - RGA. FLOAT CABLES (4)
12. 2"C(RADAR CABLE) - RGA. RADAR CABLE
13. 2"C(SUBMERSIBLE PUMP CABLE) - RGA. PUMP CABLES
14. 2"C(PULL-STRING) - RGA. RADAR CABLE (FUTURE)
15. 1"C(PULL-STRING) - RGA. FLOW METER COMMUNICATION (FUTURE)
16. 1"C(PULL-STRING) - RGA. FLOW METER POWER (FUTURE)

CITY FURNISHED LIST

EQUIPMENT FURNISHED BY CITY AND INSTALLED BY CONTRACTOR
1. PUMP CONTROL PANEL (CONTROLS PANEL)
2. GENERATOR RECEPTACLE AND BACK BOX
3. PUMP CONTROL PANEL (POWER PANEL)
4. TERMINAL BOX
5. JUNCTION BOX WITH AIR VENTS

ALL OTHER EQUIPMENT DENOTED NEW ON ELECTRICAL PLANS TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR

LIFT STATION NO 14
SINGLE LINE DIAGRAM - PROPOSED

SCALE: NTS

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 14
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-612
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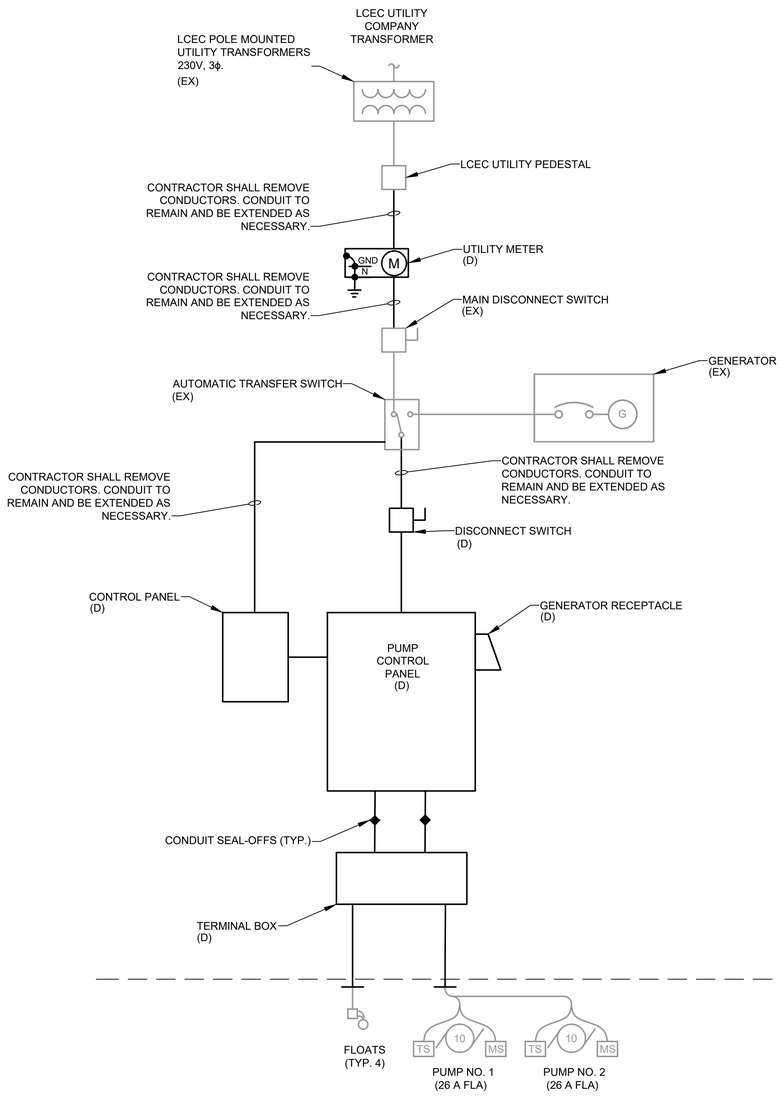

LIFT STATION NO 17
SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NTS

DEMOLITION LEGEND

HATCHED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 17
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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Bar Measures 1 inch

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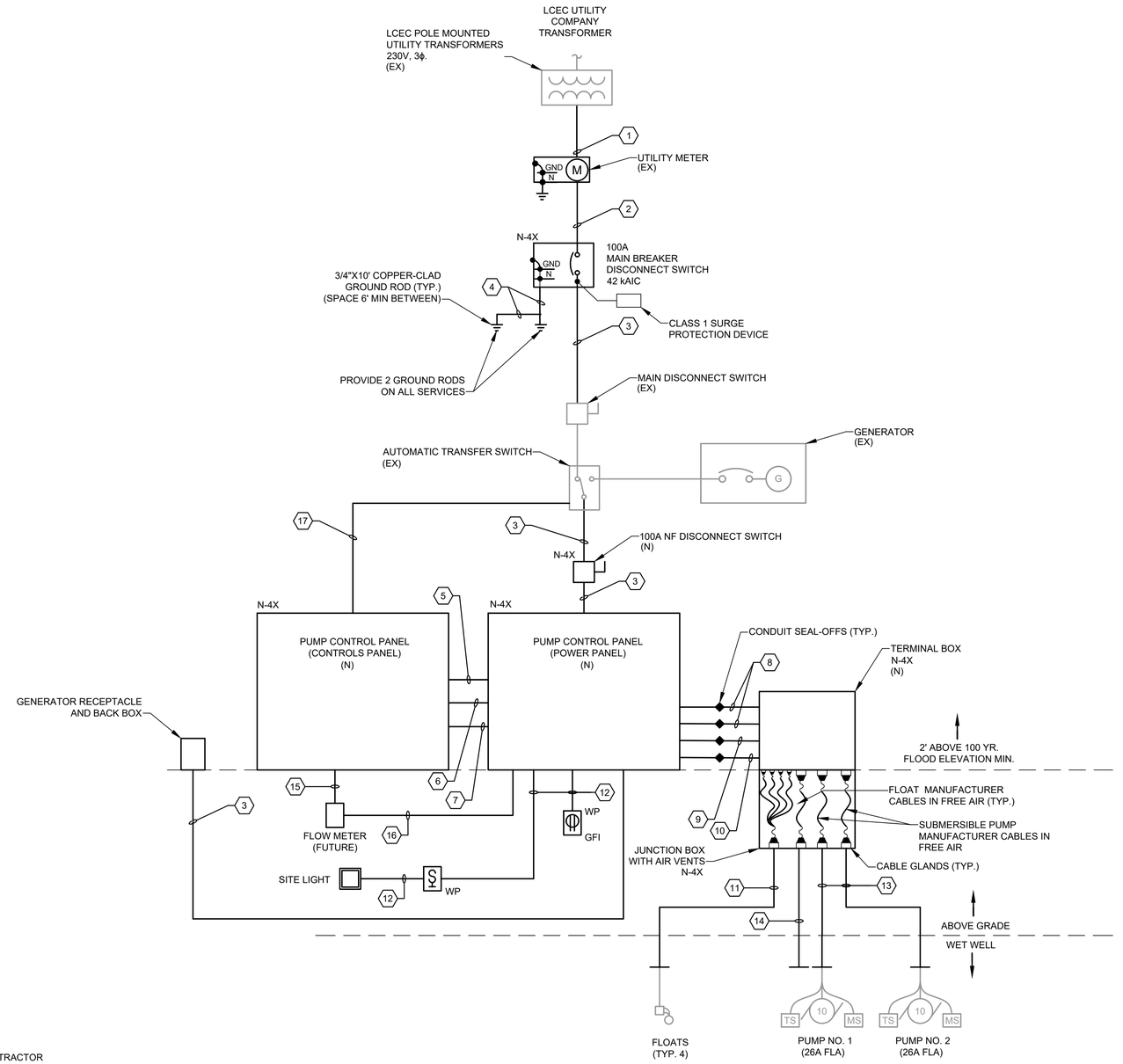

1 KEY NOTES:

1. 2"C(4#1 AWG) - SCH. 80 PVC EXTEND EXISTING CONDUIT AS NECESSARY.
2. 2"C(4#1 AWG) - SCH. 80 PVC
3. 2"C(4#1 AWG, 1#6G) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY.
4. #4 AWG BARE COPPER. SLEEVE IN SCH. 80 PVC FROM FIRST GROUND ROD TO CIRCUIT BREAKER DISCONNECT SWITCH.
5. 2"C(56#14) - SCH. 40 PVC
6. 1"C(2-2/C#16SH) - SCH. 40 PVC
7. 1"C(2#10, 1#10G) - SCH. 40 PVC
8. 1"C(3#8, 1#10G, 4#14) - RGA W/ SEAL OFF. PUMP POWER CONDUCTORS.
9. 1"C(8#14) - RGA W/SEAL OFF. FLOAT CONDUCTORS.
10. 1"C(2/C#16SH) - RGA W/SEAL OFF. RADAR CONDUCTOR.
11. 2"C(FLOAT CABLES) - RGA. FLOAT CABLES (4)
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13. 2"C(SUBMERSIBLE PUMP CABLE) - RGA. PUMP CABLES
14. 2"C(PULL-STRING) - RGA. RADAR CABLE (FUTURE)
15. 1"C(PULL-STRING) - RGA. FLOW METER COMMUNICATION (FUTURE)
16. 1"C(PULL-STRING) - RGA. FLOW METER POWER (FUTURE)
17. 1"C(10#14) - RGA. GENERATOR RUN SIGNALS. EXTEND EXISTING CONDUIT AS NECESSARY.

CITY FURNISHED LIST

EQUIPMENT FURNISHED BY CITY AND INSTALLED BY CONTRACTOR
1. PUMP CONTROL PANEL (CONTROLS PANEL)
2. GENERATOR RECEPTACLE AND BACK BOX
3. PUMP CONTROL PANEL (POWER PANEL)
4. TERMINAL BOX
5. JUNCTION BOX WITH AIR VENTS

ALL OTHER EQUIPMENT DENOTED NEW ON ELECTRICAL PLANS TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

LIFT STATION NO 17
SINGLE LINE DIAGRAM - PROPOSED

SCALE: NTS

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 17
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-622
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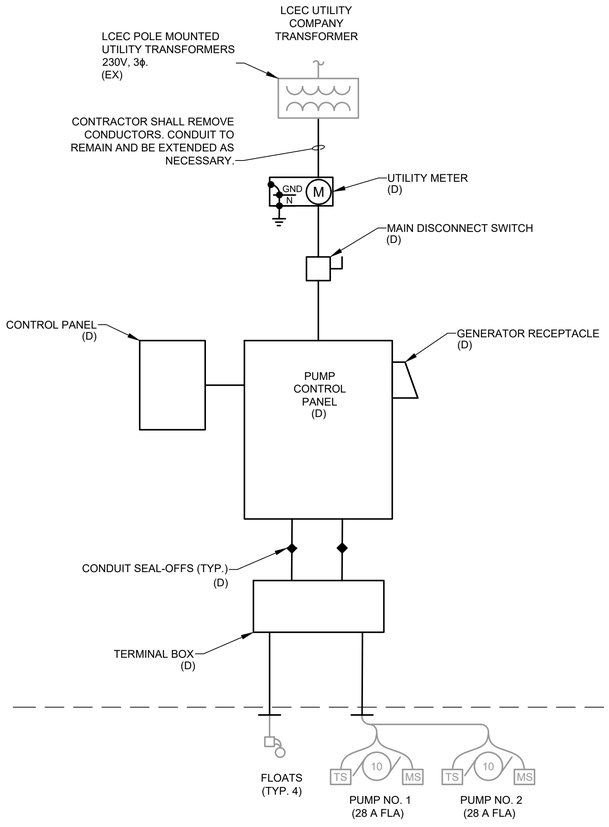

LIFT STATION NO 20
SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NTS

DEMOLITION LEGEND

HATCHED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
LIFT STATION 20
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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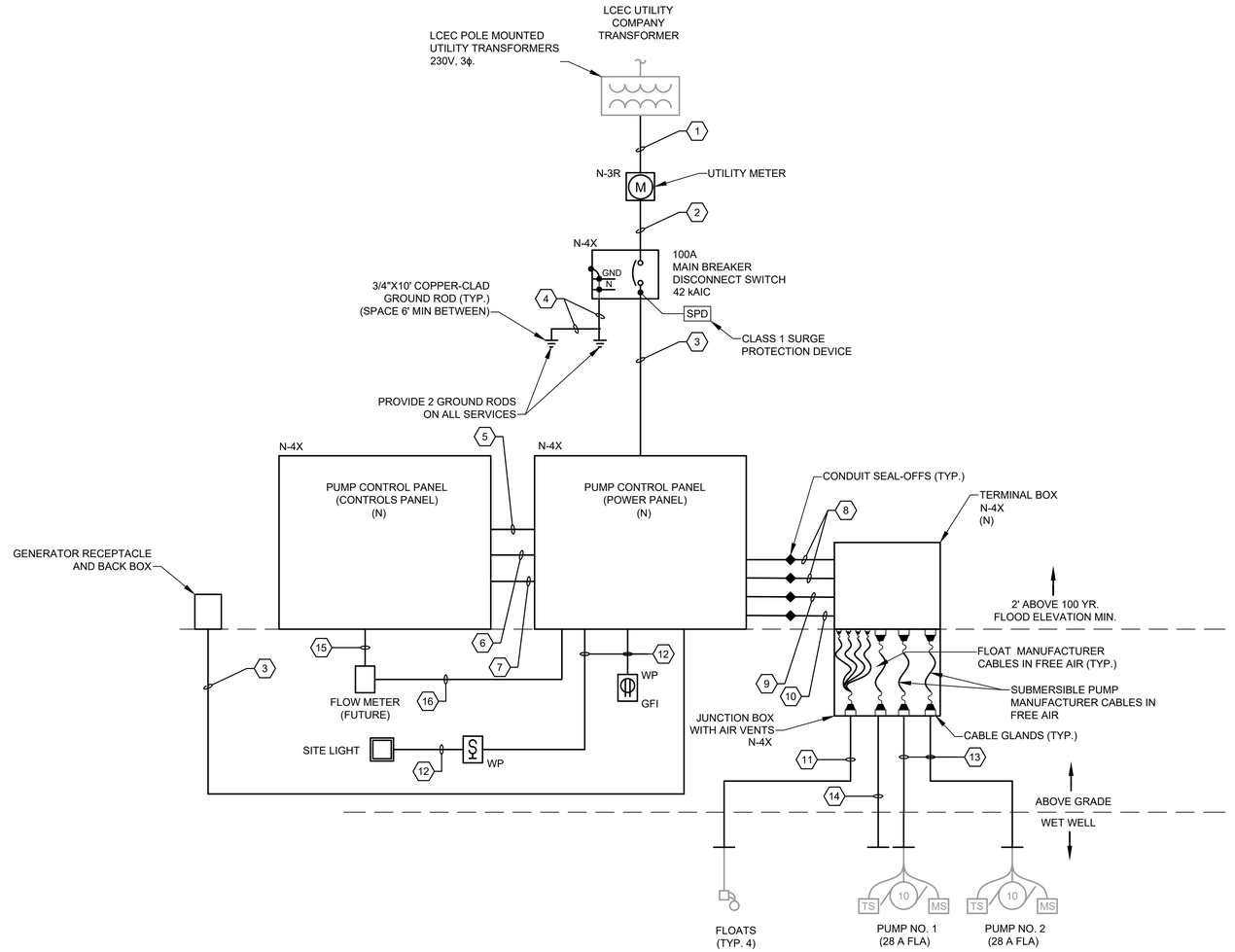

1 KEY NOTES:

1. 2"C(4#1 AWG) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY.
2. 2"C(4#1 AWG) - SCH. 80 PVC
3. 2"C(4#1 AWG, 1#6G) - SCH. 80 PVC
4. #4 AWG BARE COPPER. SLEEVE IN SCH. 80 PVC FROM FIRST GROUND ROD TO CIRCUIT BREAKER DISCONNECT SWITCH.
5. 2"C(56#14) - SCH. 40 PVC
6. 1"C(2-2/C#16SH) - SCH. 40 PVC
7. 1"C(2#10, 1#10G) - SCH. 40 PVC
8. 1"C(3#8, 1#10G, 4#14) - RGA W/ SEAL OFF. PUMP POWER CONDUCTORS.
9. 1"C(8#14) - RGA W/SEAL OFF. FLOAT CONDUCTORS.
10. 1"C(2/C#16SH) - RGA W/SEAL OFF. RADAR CONDUCTOR.
11. 2"C(FLOAT CABLES) - RGA. FLOAT CABLES (4)
12. 2"C(RADAR CABLE) - RGA. RADAR CABLE
13. 2"C(SUBMERSIBLE PUMP CABLE) - RGA. PUMP CABLES
14. 2"C(PULL-STRING) - RGA. RADAR CABLE (FUTURE)
15. 1"C(PULL-STRING) - RGA. FLOW METER COMMUNICATION (FUTURE)
16. 1"C(PULL-STRING) - RGA. FLOW METER POWER (FUTURE)

CITY FURNISHED LIST

EQUIPMENT FURNISHED BY CITY AND INSTALLED BY CONTRACTOR
1. PUMP CONTROL PANEL (CONTROLS PANEL)
2. GENERATOR RECEPTACLE AND BACK BOX
3. PUMP CONTROL PANEL (POWER PANEL)
4. TERMINAL BOX
5. JUNCTION BOX WITH AIR VENTS

ALL OTHER EQUIPMENT DENOTED NEW ON ELECTRICAL PLANS TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR

LIFT STATION NO 20
SINGLE LINE DIAGRAM - PROPOSED

SCALE: NTS

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

TETRA TECH
ENGINEERING BUSINESS NO. 2429
www.tetratech.com
10600 CHEVROLET WAY, SUITE 102
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CITY OF SANIBEL
800 Dunlop Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 20
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-632
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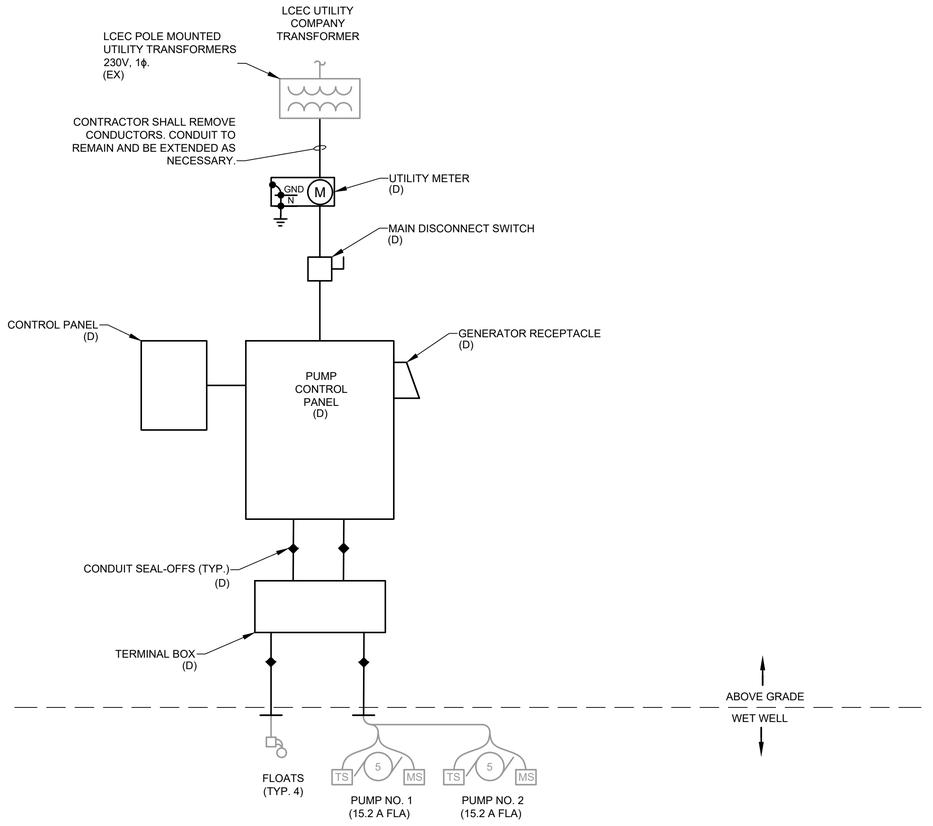

LIFT STATION NO 32
SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NTS

DEMOLITION LEGEND

HATCHED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

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800 Dunlop Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 32
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-641
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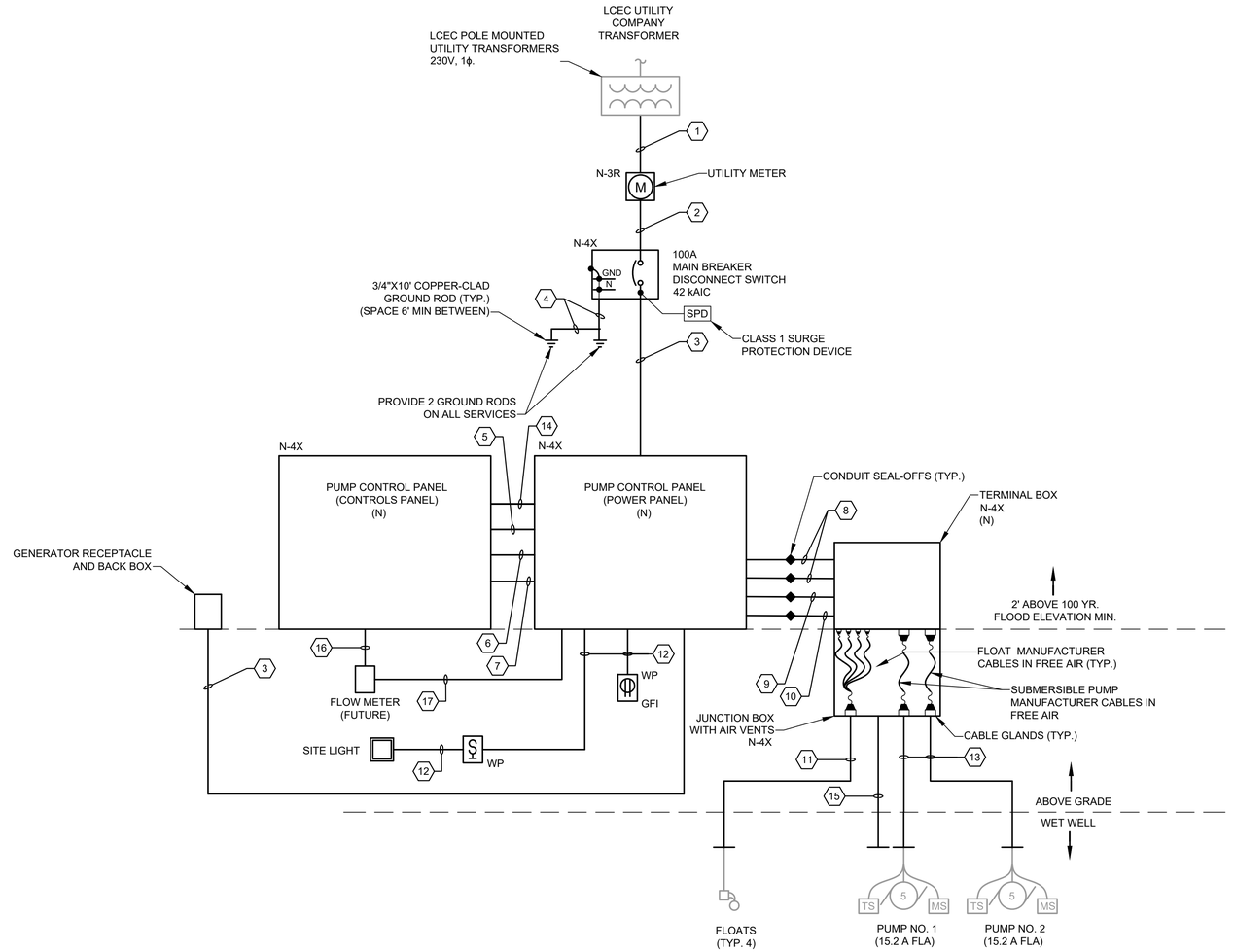

1 KEY NOTES:

1. 2"C(3#1 AWG) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY.
2. 2"C(3#1 AWG) - SCH. 80 PVC
3. 2"C(3#1 AWG, 1#6G) - SCH. 80 PVC
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5. 2"C(56#14) - SCH. 40 PVC
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7. 2"C(4#10, 1#10G) - SCH. 40 PVC
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9. 1"C(8#14) - RGA W/SEAL OFF. FLOAT CONDUCTORS.
10. 1"C(PULL-STRING) - RGA W/SEAL OFF. (FUTURE RADAR CONDUCTOR)
11. 2"C(FLOAT CABLES) - RGA. FLOAT CABLES (4)
12. 1"C(2#12, 1#12G) - SCH. 40 PVC
13. 2"C(SUBMERSIBLE PUMP CABLE) - RGA. PUMP CABLES
14. 2"C(2-CAT-6) - SCH. 40 PVC
15. 2"C(PULL-STRING) - RGA. RADAR CABLE (FUTURE)
16. 1"C(PULL-STRING) - RGA. FLOW METER COMMUNICATION (FUTURE)
17. 1"C(PULL-STRING) - RGA. FLOW METER POWER (FUTURE)

CITY FURNISHED LIST

EQUIPMENT FURNISHED BY CITY AND INSTALLED BY CONTRACTOR
1. PUMP CONTROL PANEL (CONTROLS PANEL)
2. GENERATOR RECEPTACLE AND BACK BOX
3. PUMP CONTROL PANEL (POWER PANEL)
4. TERMINAL BOX
5. JUNCTION BOX WITH AIR VENTS

ALL OTHER EQUIPMENT DENOTED NEW ON ELECTRICAL PLANS TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR

LIFT STATION NO 32
SINGLE LINE DIAGRAM - PROPOSED

SCALE: NTS

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

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800 Dunlop Road
Sanibel, Florida 33957

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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
LIFT STATION 32
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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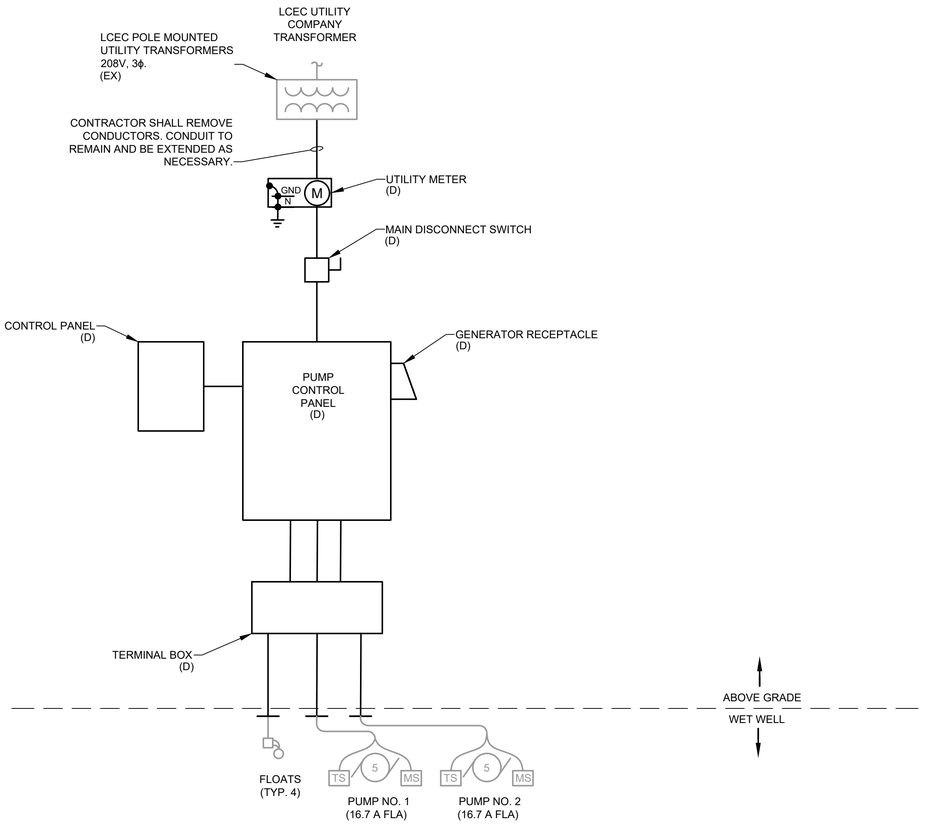

LIFT STATION NO 46
SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NTS

DEMOLITION LEGEND

HATCHED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 46
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
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Checked By:	JDM

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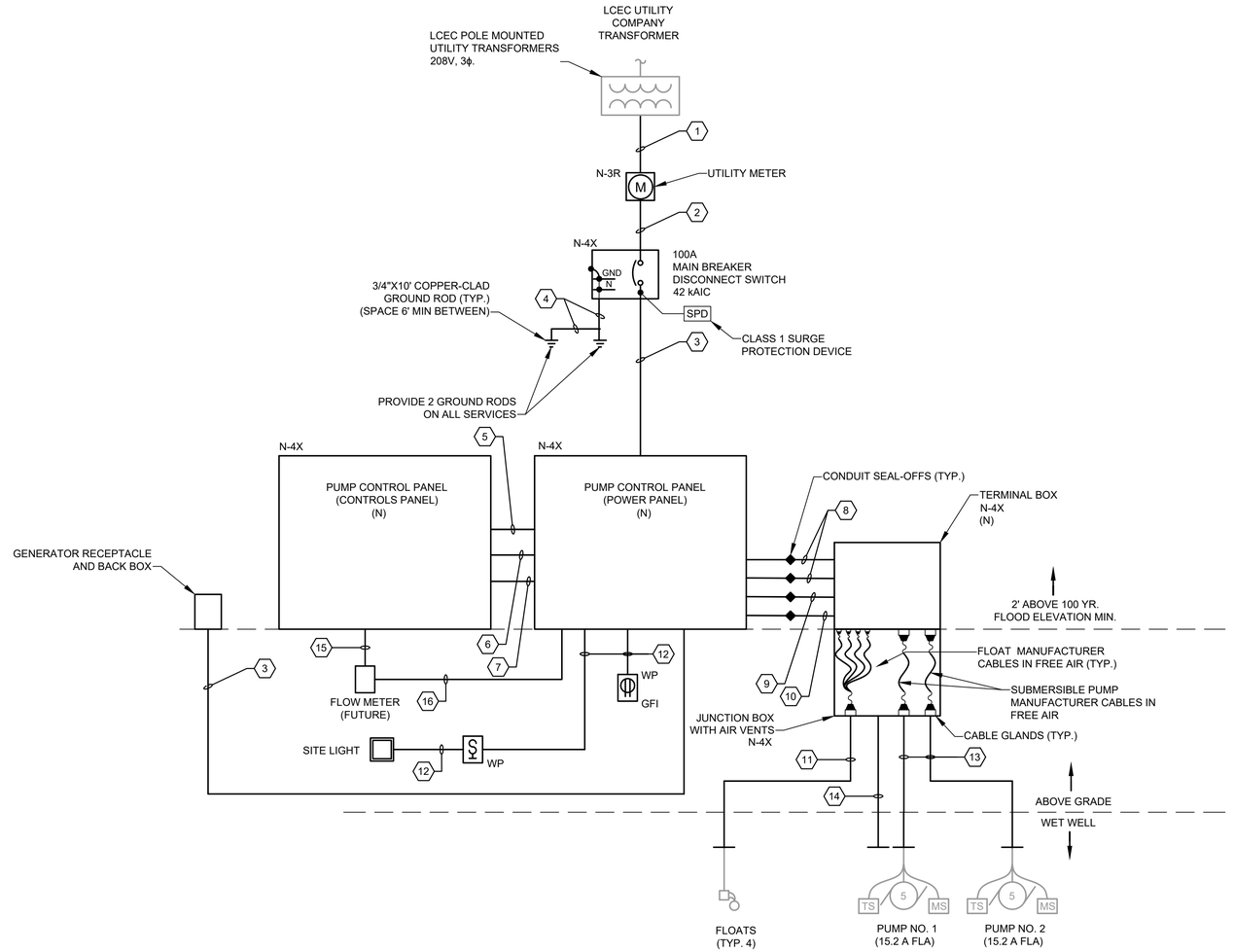

1 KEY NOTES:

1. 2"C(4#1 AWG) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY.
2. 2"C(4#1 AWG) - SCH. 80 PVC
3. 2"C(4#1 AWG, 1#6G) - SCH. 80 PVC
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7. 1"C(2#10, 1#10G) - SCH. 40 PVC
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9. 1"C(8#14) - RGA W/SEAL OFF. FLOAT CONDUCTORS.
10. 1"C(2/C#16SH) - RGA W/SEAL OFF. RADAR CONDUCTOR.
11. 2"C(FLOAT CABLES) - RGA. FLOAT CABLES (4)
12. 2"C(RADAR CABLE) - RGA. RADAR CABLE
13. 2"C(SUBMERSIBLE PUMP CABLE) - RGA. PUMP CABLES
14. 2"C(PULL-STRING) - RGA. RADAR CABLE (FUTURE)
15. 1"C(PULL-STRING) - RGA. FLOW METER COMMUNICATION (FUTURE)
16. 1"C(PULL-STRING) - RGA. FLOW METER POWER (FUTURE)

CITY FURNISHED LIST

EQUIPMENT FURNISHED BY CITY AND INSTALLED BY CONTRACTOR
1. PUMP CONTROL PANEL (CONTROLS PANEL)
2. GENERATOR RECEPTACLE AND BACK BOX
3. PUMP CONTROL PANEL (POWER PANEL)
4. TERMINAL BOX
5. JUNCTION BOX WITH AIR VENTS

ALL OTHER EQUIPMENT DENOTED NEW ON ELECTRICAL PLANS TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR

LIFT STATION NO 46
SINGLE LINE DIAGRAM - PROPOSED

SCALE: NTS

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

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800 Dunlop Road
Sanibel, Florida 33957

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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
LIFT STATION 46
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-652
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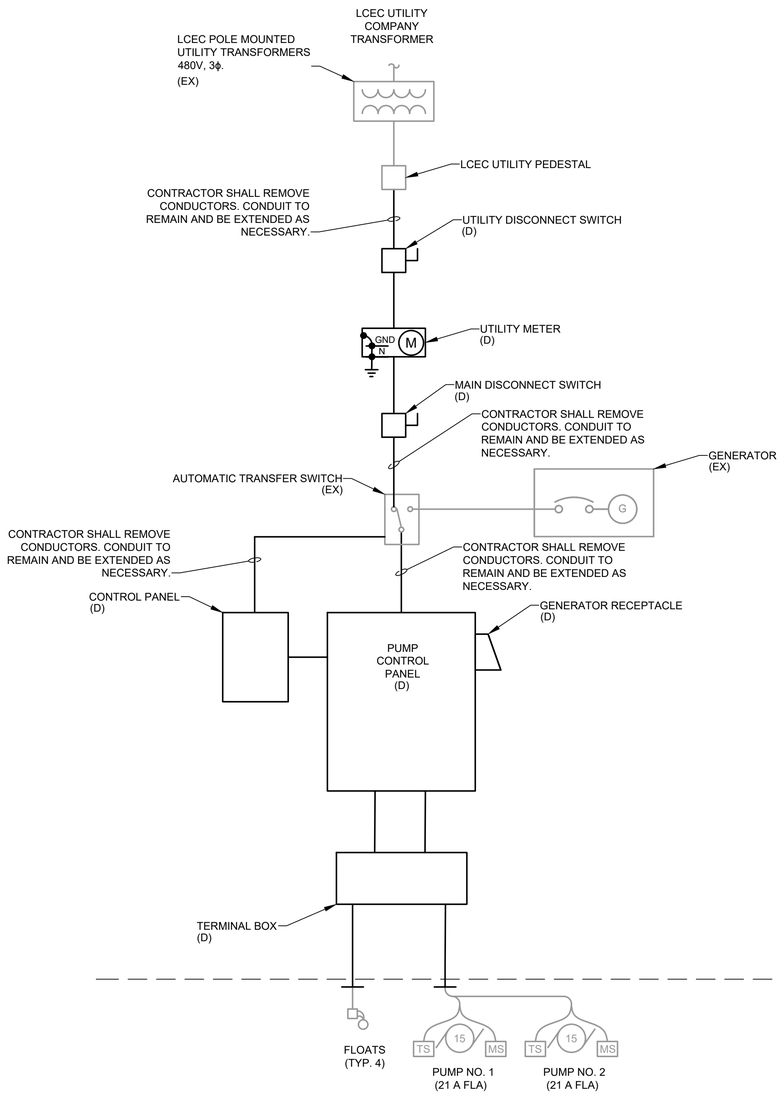

LIFT STATION NO 54
SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NTS

DEMOLITION LEGEND

HATCHED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

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THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 54
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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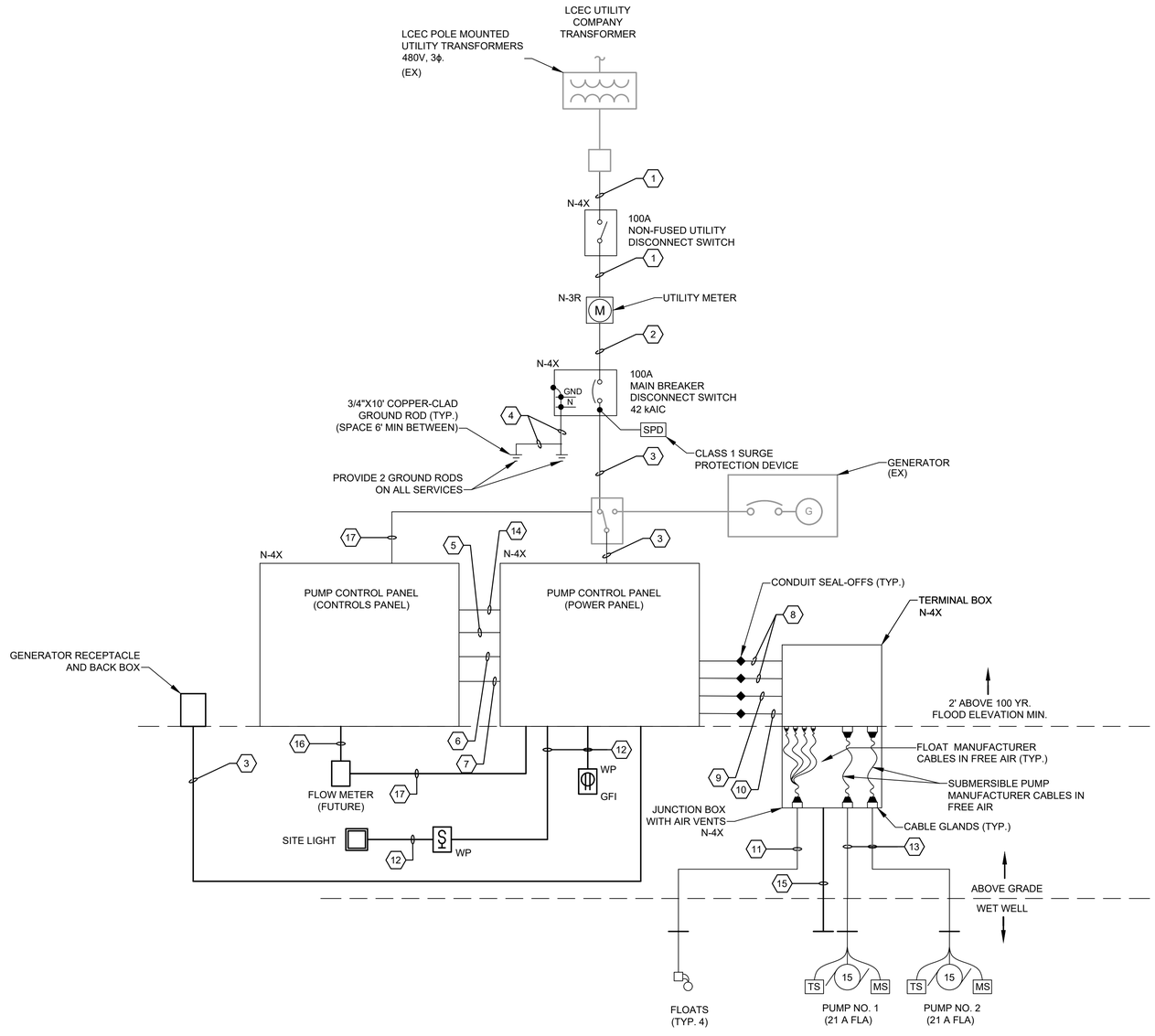

LIFT STATION NO 54
SINGLE LINE DIAGRAM - PROPOSED

SCALE: NTS

KEY NOTES:
1. 2"C(4#1 AWG) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY.
2. 2"C(4#1 AWG) - SCH. 80 PVC
3. 2"C(4#1 AWG, 1#8G) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY.
4. #4 AWG BARE COPPER. SLEEVE IN SCH. 80 PVC FROM FIRST GROUND ROD TO CIRCUIT BREAKER DISCONNECT SWITCH.
5. 2"C(56#14) - SCH. 40 PVC
6. 1"C(2-2/C#16SH) - SCH. 40 PVC
7. 1"C(4#10, 1#10G) - SCH. 40 PVC
8. 1"C(3#10, 1#10G, 4#14) - RGA W/ SEAL OFF. PUMP POWER CONDUCTORS.
9. 1"C(8#14) - RGA W/SEAL OFF. FLOAT CONDUCTORS.
10. 1"C(2/C#16SH) - RGA W/SEAL OFF. (FUTURE RADAR CONDUCTOR).
11. 2"C(FLOAT CABLES) - RGA. FLOAT CABLES (4)
12. 1"C(2#12, 1#12G) - SCH. 40 PVC
13. 2"C(SUBMERSIBLE PUMP CABLE) - RGA. PUMP CABLES
14. 2"C(2-CAT-6) - SCH. 40 PVC
15. 2"C(PULL-STRING) - RGA. RADAR CABLE (FUTURE)
16. 1"C(PULL-STRING) - RGA. FLOW METER COMMUNICATION (FUTURE)
17. 1"C(PULL-STRING) - RGA. FLOW METER POWER (FUTURE)
18. 1"C(10#14) - RGA. GENERATOR RUN SIGNALS. EXTEND EXISTING CONDUIT AS NECESSARY.

CITY FURNISHED LIST

EQUIPMENT FURNISHED BY CITY AND INSTALLED BY CONTRACTOR
1. PUMP CONTROL PANEL (CONTROLS PANEL)
2. GENERATOR RECEPTACLE AND BACK BOX
3. PUMP CONTROL PANEL (POWER PANEL)
4. TERMINAL BOX
5. JUNCTION BOX WITH AIR VENTS

ALL OTHER EQUIPMENT DENOTED NEW ON ELECTRICAL PLANS TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

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THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1
LIFT STATION 54
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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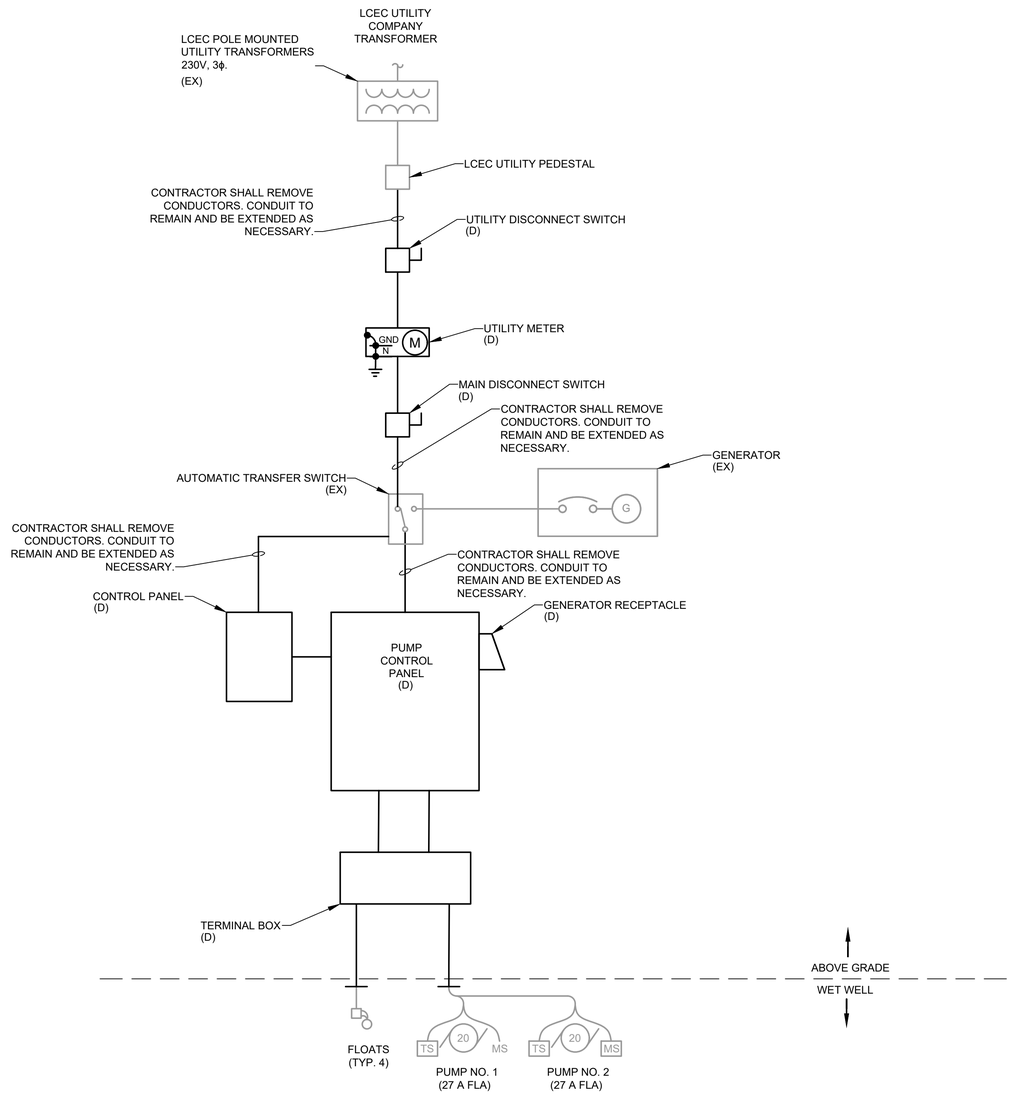

LIFT STATION NO 55
SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NTS

DEMOLITION LEGEND

HATCHED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 55
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
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Drawn By:	JAS
Checked By:	JDM

E-671
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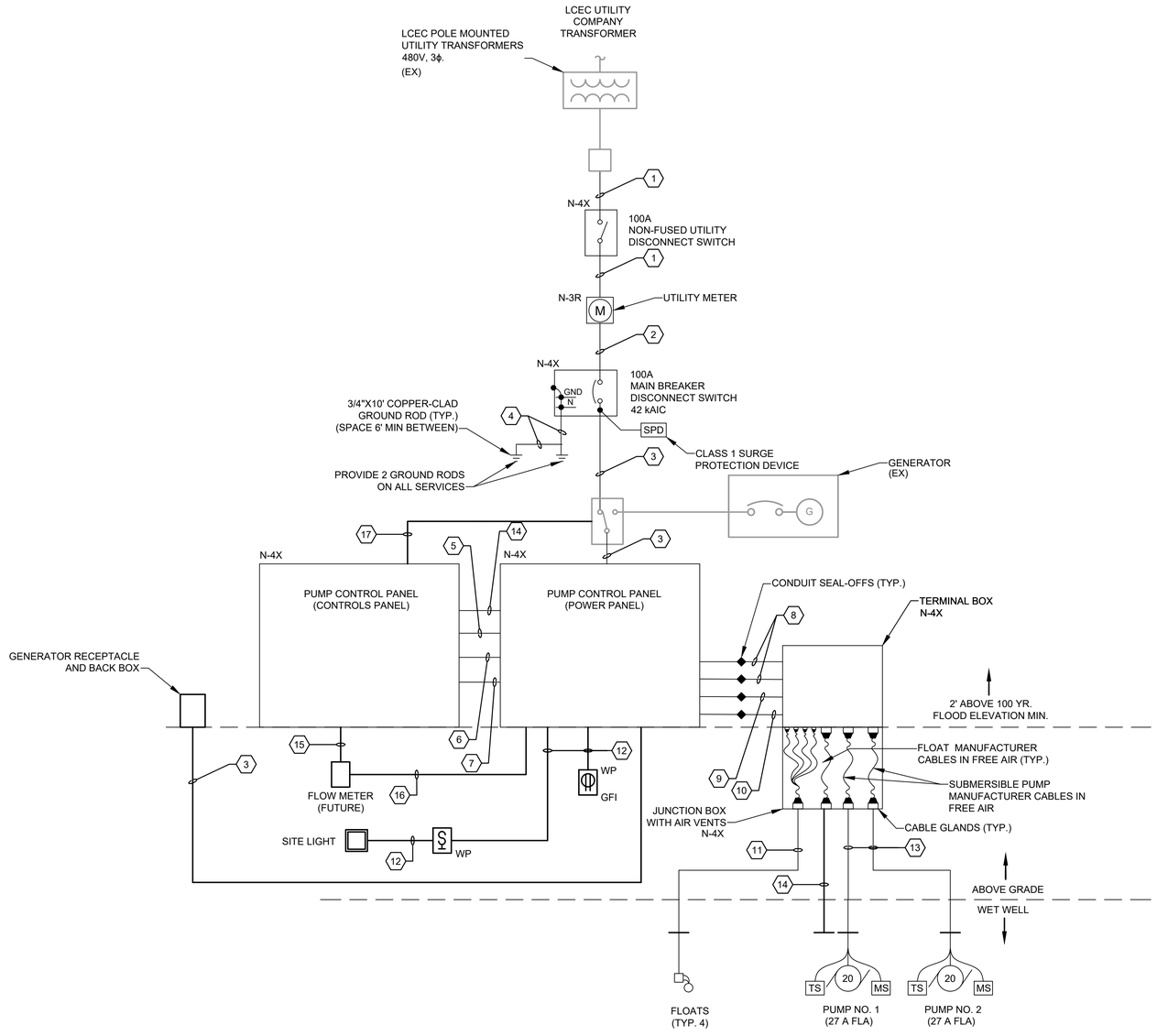

LIFT STATION NO 55
SINGLE LINE DIAGRAM - PROPOSED

SCALE: NTS

1 KEY NOTES:
1. 2"C(4#1 AWG) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY.
2. 2"C(4#1 AWG) - SCH. 80 PVC
3. 2"C(4#1 AWG, 1#8G) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY.
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5. 2"C(56#14) - SCH. 40 PVC
6. 1"C(2-2/C#16SH) - SCH. 40 PVC
7. 1"C(4#10, 1#10G) - SCH. 40 PVC
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9. 1"C(8#14) - RGA W/SEAL OFF. FLOAT CONDUCTORS.
10. 1"C(PULL-STRING) - RGA W/SEAL OFF. (FUTURE RADAR CONDUCTOR).
11. 2"C(FLOAT CABLES) - RGA. FLOAT CABLES (4)
12. 1"C/2#12, 1#12G) - SCH. 40 PVC
13. 2"C(2-CAT-6) - SCH. 40 PVC
14. 2"C(PULL-STRING) - RGA. RADAR CABLE (FUTURE)
15. 1"C(PULL-STRING) - RGA. FLOW METER COMMUNICATION (FUTURE)
16. 1"C(PULL-STRING) - RGA. FLOW METER POWER (FUTURE)
17. 1"C(10#14) - RGA. GENERATOR RUN SIGNALS. EXTEND EXISTING CONDUIT AS NECESSARY.

CITY FURNISHED LIST

EQUIPMENT FURNISHED BY CITY AND INSTALLED BY CONTRACTOR
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3. PUMP CONTROL PANEL (POWER PANEL)
4. TERMINAL BOX
5. JUNCTION BOX WITH AIR VENTS

ALL OTHER EQUIPMENT DENOTED NEW ON ELECTRICAL PLANS TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

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LIFT STATION 55
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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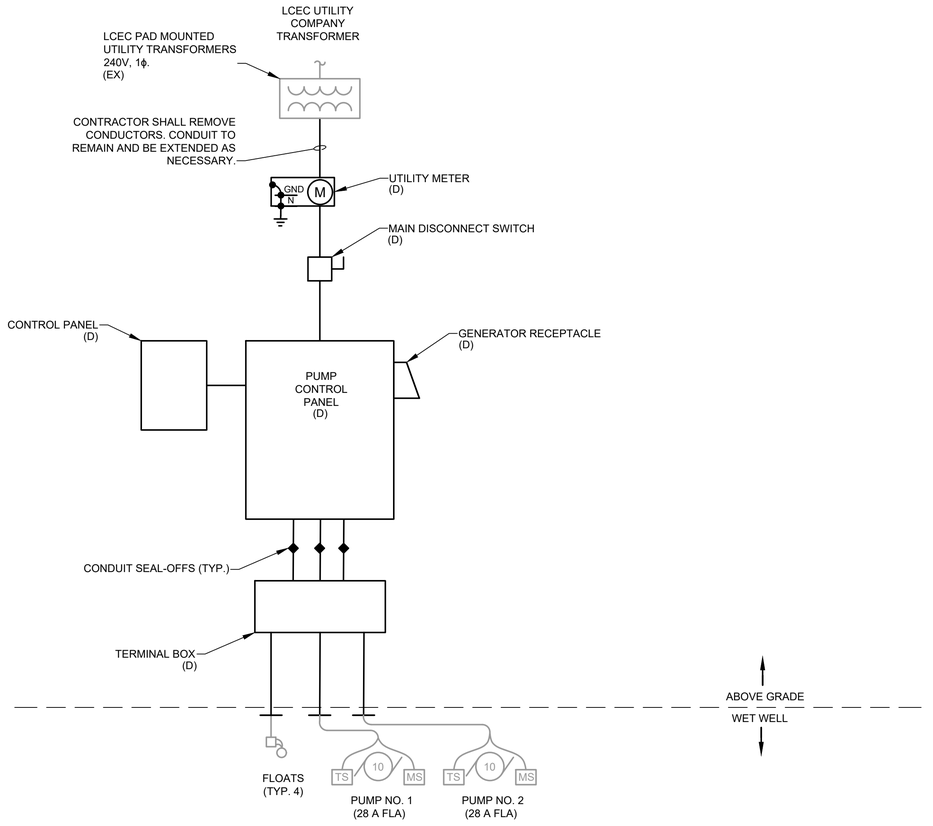

LIFT STATION NO 88
SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NTS

DEMOLITION LEGEND

HATCHED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

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LIFT STATION 88
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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Bar Measures 1 inch

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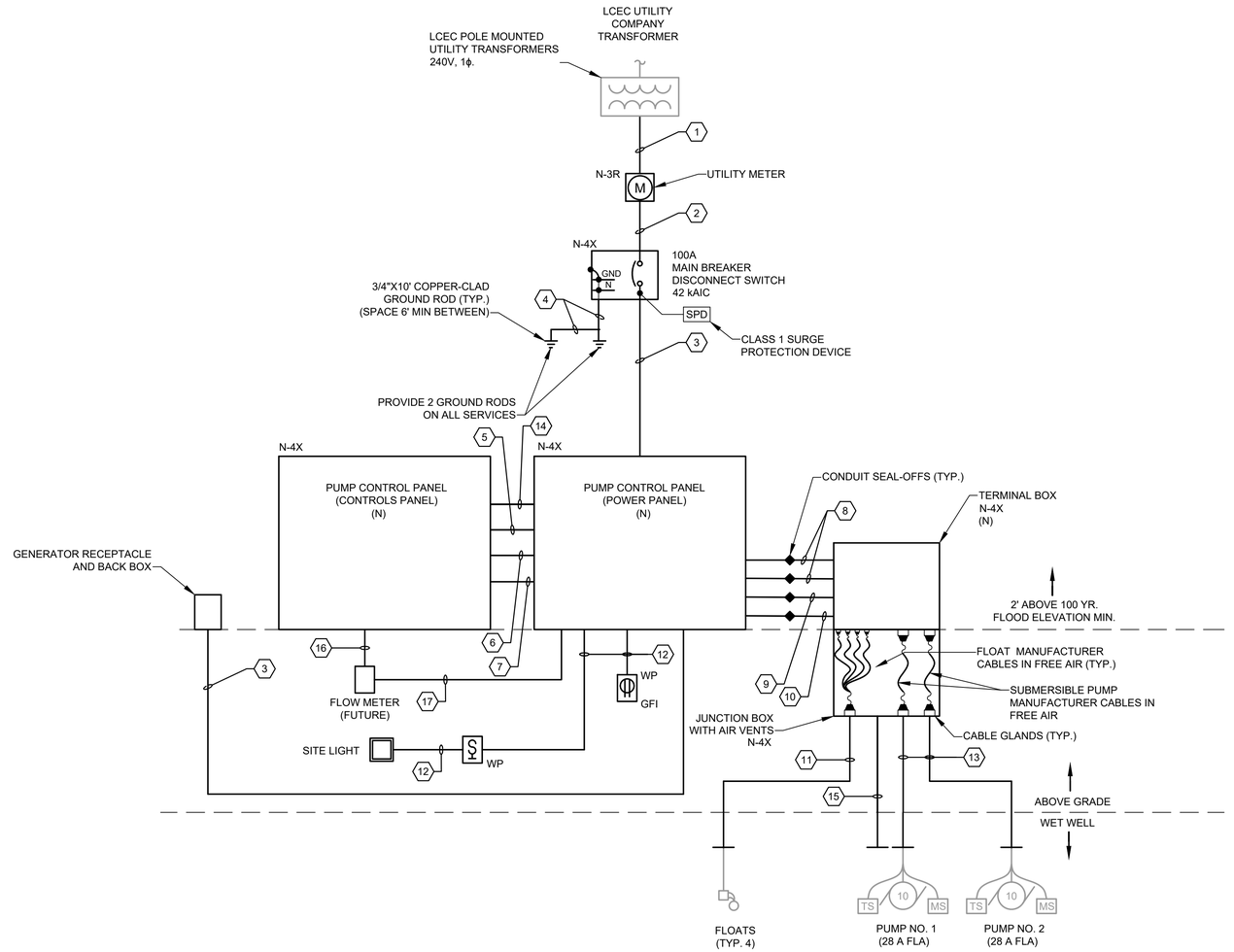

1 KEY NOTES:

1. 2"C(3#1 AWG) - SCH. 80 PVC. EXTEND EXISTING CONDUIT AS NECESSARY.
2. 2"C(3#1 AWG) - SCH. 80 PVC
3. 2"C(3#1 AWG, 1#6G) - SCH. 80 PVC
4. #4 AWG BARE COPPER. SLEEVE IN SCH. 80 PVC FROM FIRST GROUND ROD TO CIRCUIT BREAKER DISCONNECT SWITCH.
5. 2"C(56#14) - SCH. 40 PVC
6. 1"C(2-2/C#16SH) - SCH. 40 PVC
7. 1"C(4#10, 1#10G) - SCH. 40 PVC
8. 1"C(3#8, 1#10G, 4#14) - RGA W/ SEAL OFF. PUMP POWER CONDUCTORS.
9. 1"C(8#14) - RGA W/SEAL OFF. FLOAT CONDUCTORS.
10. 1"C(PULL-STRING) - RGA W/SEAL OFF. (FUTURE RADAR CONDUCTOR).
11. 2"C(FLOAT CABLES) - RGA. FLOAT CABLES (4)
12. 1"C(2#12, 1#12G) - SCH. 40 PVC
13. 2"C(SUBMERSIBLE PUMP CABLE) - RGA. PUMP CABLES
14. 2"C(2-CAT-6) - SCH. 40 PVC
15. 2"C(PULL-STRING) - RGA. RADAR CABLE (FUTURE)
16. 1"C(PULL-STRING) - RGA. FLOW METER COMMUNICATION (FUTURE)
17. 1"C(PULL-STRING) - RGA. FLOW METER POWER (FUTURE)

CITY FURNISHED LIST

EQUIPMENT FURNISHED BY CITY AND INSTALLED BY CONTRACTOR
1. PUMP CONTROL PANEL (CONTROLS PANEL)
2. GENERATOR RECEPTACLE AND BACK BOX
3. PUMP CONTROL PANEL (POWER PANEL)
4. TERMINAL BOX
5. JUNCTION BOX WITH AIR VENTS

ALL OTHER EQUIPMENT DENOTED NEW ON ELECTRICAL PLANS TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR

LIFT STATION NO 88
SINGLE LINE DIAGRAM - PROPOSED

SCALE: NTS

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

TETRA TECH
ENGINEERING BUSINESS NO. 2429
www.tetratech.com
10600 CHEVROLET WAY, SUITE 102
ESTERO, FLORIDA 33928
PHONE: (239) 390-1467

BID SET

CITY OF SANIBEL
800 Dunlop Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 88
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-682
Sheet

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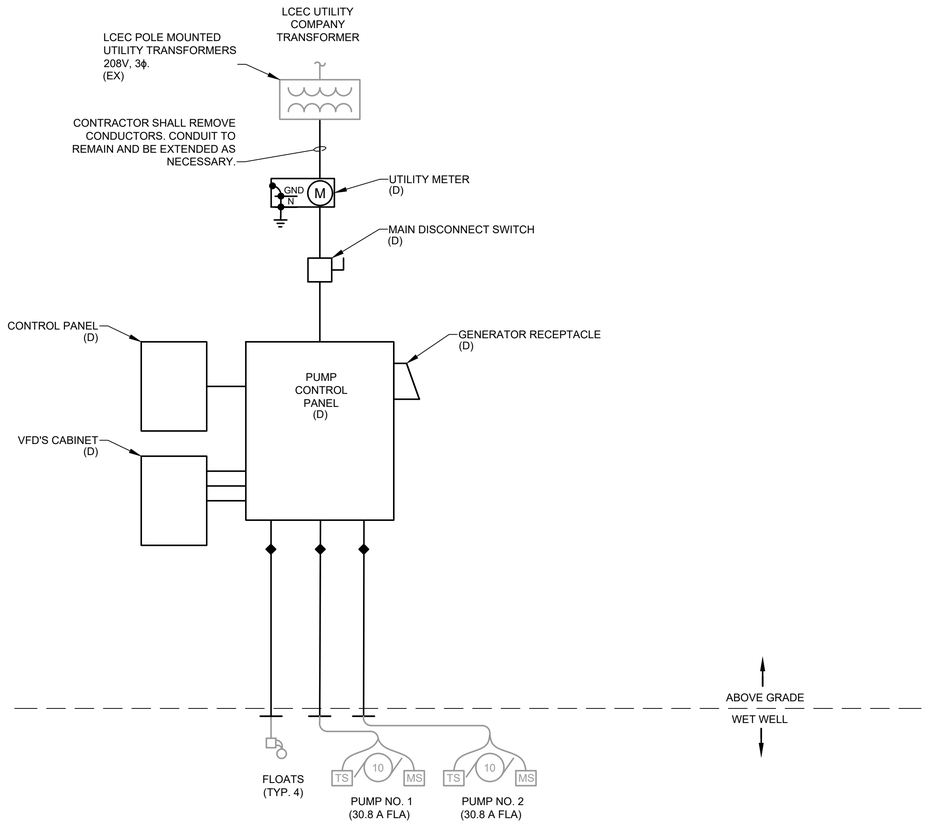
Bar Measures 1 inch



LIFT STATION NO 97
SINGLE LINE DIAGRAM - DEMOLITION

SCALE: NTS

DEMOLITION LEGEND

HATCHED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED

(EX) EXISTING TO REMAIN
(RL) EXISTING TO BE RELOCATED
(D) EXISTING TO BE REMOVED

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MARK	DATE	DESCRIPTION	BY

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POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 97
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

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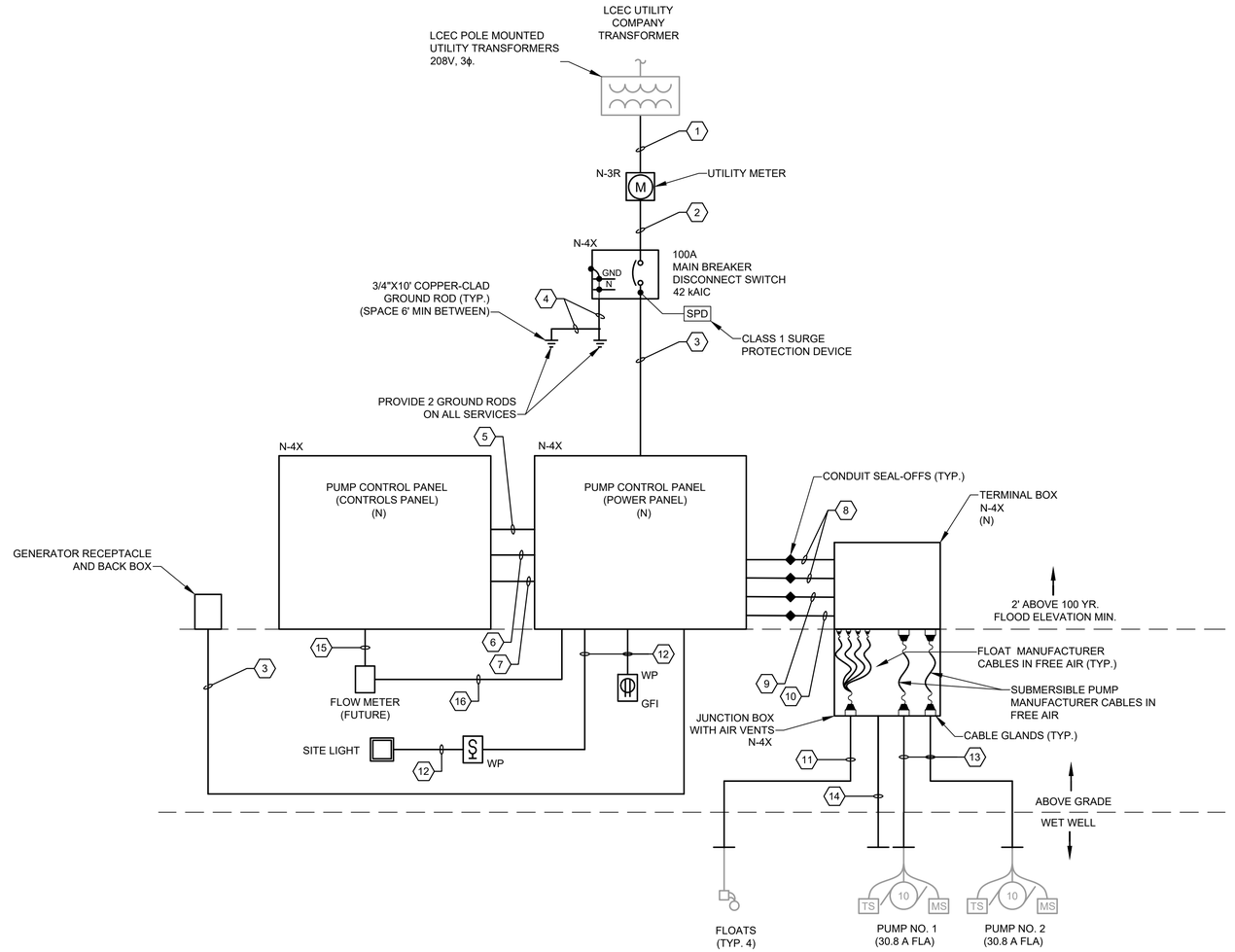

1 KEY NOTES:

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12. 2"C(RADAR CABLE) - RGA. RADAR CABLE
13. 2"C(SUBMERSIBLE PUMP CABLE) - RGA. PUMP CABLES
14. 2"C(PULL-STRING) - RGA. RADAR CABLE (FUTURE)
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16. 1"C(PULL-STRING) - RGA. FLOW METER POWER (FUTURE)

CITY FURNISHED LIST

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5. JUNCTION BOX WITH AIR VENTS

ALL OTHER EQUIPMENT DENOTED NEW ON ELECTRICAL PLANS TO BE PROVIDED BY CONTRACTOR AND INSTALLED BY CONTRACTOR

LIFT STATION NO 97
SINGLE LINE DIAGRAM - PROPOSED

SCALE: NTS

PROPOSED LEGEND

(EX) EXISTING
(RL) EXISTING RELOCATED
(N) NEW

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800 Dunlop Road
Sanibel, Florida 33957

MARK	DATE	DESCRIPTION	BY

THE CITY OF SANIBEL
POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

LIFT STATION 97
SINGLE LINE DIAGRAM

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-692
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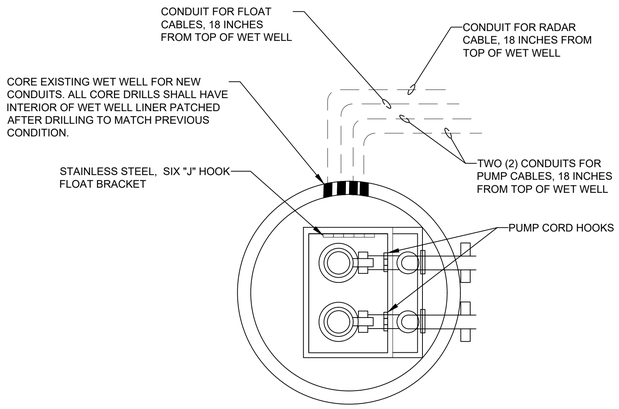
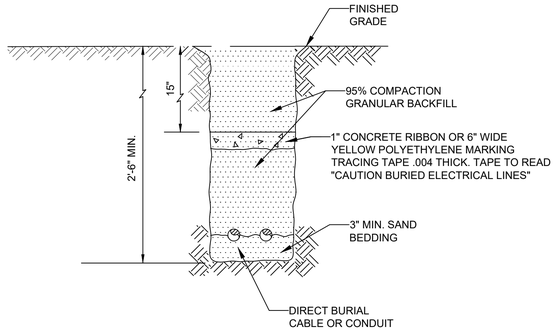


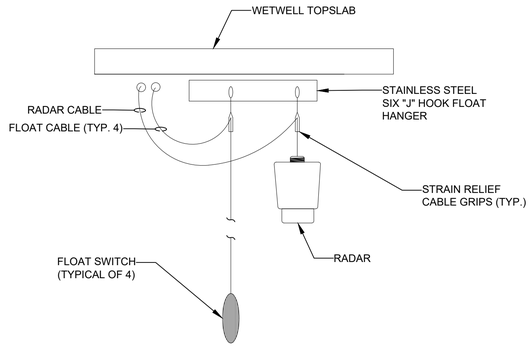
WETWELL CONDUIT PENETRATION DETAIL

SCALE: NTS



TRENCHING DETAIL

SCALE: NTS



FLOAT AND RADAR MOUNTING DETAIL

SCALE: NTS

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THE CITY OF SANIBEL

POST HURRICANE IAN LIFT STATION CONTROL PANEL & PLATFORM IMPROVEMENTS - PHASE 1

ELECTRICAL DETAILS

Project No.:	200-08498-24002
Designed By:	JAS
Drawn By:	JAS
Checked By:	JDM

E-901
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