CITY OF TAMPA, FLORIDA

PLANS FOR DONUT POND

Contract 26-C-00038 Pump Station Resiliency and Reliability Improvements Contract A

These Plans for the referenced projects come from uncontrolled sources and do not conform to WCAG 2.1 at level AA. Individuals with disabilities seeking assistance with the individual project plans or specifications should e-mail Contractadministration@tampagov.net.

City of Tampa

Contract Administration Department

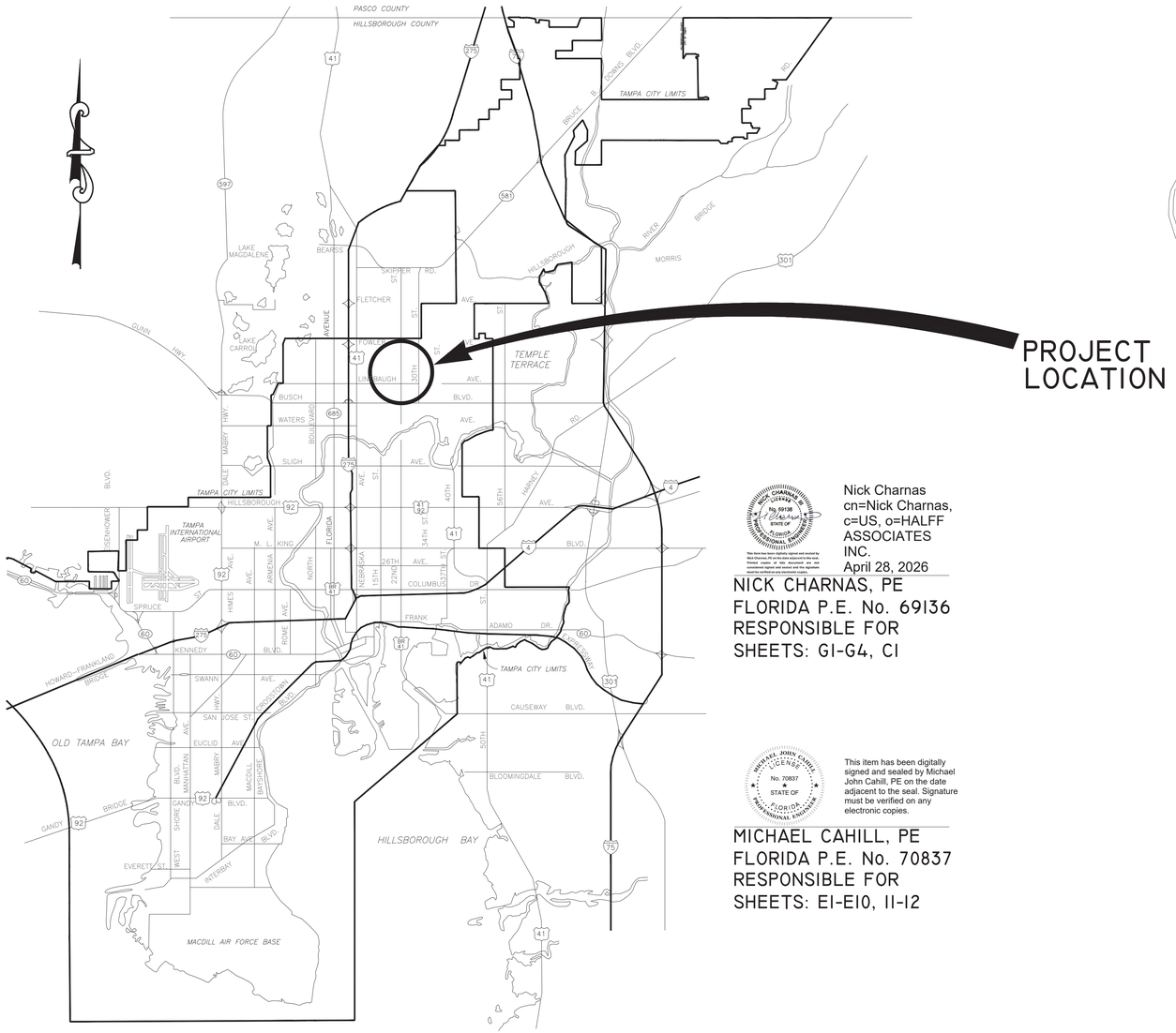
Tampa Municipal Office Building

306 E Jackson Street #280A4N Fourth Floor

Tampa, Florida 33602

SEPTEMBER 2026

SW 2026-04



Nick Charnas
cn=Nick Charnas, c=US, o=HALFF ASSOCIATES INC.
April 28, 2026

NICK CHARNAS, PE
FLORIDA P.E. No. 69136
RESPONSIBLE FOR
SHEETS: G1-G4, C1

This item has been digitally signed and sealed by Michael John Cahill, PE on the date adjacent to the seal. Signature must be verified on any electronic copies.

MICHAEL CAHILL, PE
FLORIDA P.E. No. 70837
RESPONSIBLE FOR
SHEETS: E1-E10, I1-I2

CITY of TAMPA

CITY OF TAMPA FLORIDA
ORGANIZED JULY 15 1887
MASCOTTE

DEPARTMENT OF
MOBILITY DEPARTMENT
STORMWATER ENGINEERING DIVISION

ISSUED FOR BID PLANS

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - DONUT POND PUMP STATION

26-C-00038

PREPARED BY:

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TAMPA, FL 33607
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www.goeda.com

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Plot Date: Monday, April 27, 2026

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1		
2		
3		

DES: ADW
DRN: ADW
CKD: NCIII
DATE: 04/27/2026

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - DONUT POND PUMP STATION
COVER SHEET

SHEET G1 OF 17

SW 2026-04

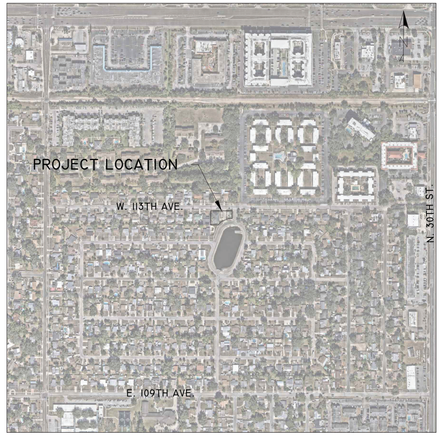
LEGEND

	UP to 18" & SMALLER	24" & LARGER
EX STORMWATER		
FORCE MAIN		
PIPES & MANHOLES		
CATCH BASIN, GRATE		
DITCHES, SWALES		
PROP STORMWATER		
FORCE MAIN		
PIPES & MANHOLES		
OTHER UTILITIES		
SAN SEWER & MANHOLES		
WATER LINE		
GAS LINE		
ELECTRICAL CABLE or DUCT		
TELEPHONE CABLE or DUCT		
TV CABLE		
VALVE		
HYDRANT		
CLEAN OUT		
EXISTING WYE		
POWER POLE		
TELEPHONE POLE		
GUY POLE		
GUY WIRE		
VALVE VAULT		
WATER METER		
ELECTRICAL MANHOLE or VAULT		
TELEPHONE MANHOLE or VAULT		
TRAFFIC BOX or VAULT		
OTHER FEATURES		
RIGHT of WAY LINE		
EDGE of PAVEMENT		
BUILDING LIMIT		
PROPERTY OWNERSHIP		
FENCE		
CONIFER		
PALM		
OAK		
OTHER		
SHRUB		
HEDGE		
RAILROAD TRACKS		
IRON PIPE		
CONCRETE MONUMENT		

ABBREVIATIONS

TOP of PIPE	TP
INVERT ELEVATION	IE or INV EL
RIGHT of WAY	R/W
MANHOLE	MH
POLYVINYL CHLORIDE PIPE	PVCP
VITRIFIED CLAY PIPE	VCP
ADVANCED DRAINAGE SYSTEM	ADS
DUCTILE IRON PIPE	DIP
REINFORCED CONCRETE PIPE	RCP
CONCRETE PIPE	CP
APPROXIMATE LOCATION	AL
BENCH MARK	BM
POINT of INTERSECTION	PI

INDEX



LOCATION MAP
1" = 500'

Plot Date: Monday, April 27, 2026

No.	DATE	REVISIONS	No.	DATE	REVISIONS
1			4		
2			5		
3			6		

DES: ADW
DRN: ADW
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ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - DONUT POND PUMP STATION

GENERAL NOTES

SHEET G2 OF 17

SW 2026-04

GENERAL NOTES

1. EXISTING DIMENSIONS ARE BASED ON THE BEST INFORMATION AVAILABLE. TRUE DIMENSIONS SHALL BE DETERMINED IN THE FIELD PRIOR TO LAYOUT AND SHOP DRAWING SUBMITTALS.

2. LOCATION OF EXISTING FORCE MAIN AND OTHER UTILITIES TO BE VERIFIED BY CONTRACTOR AT TIME OF CONSTRUCTION. CONTRACTOR SHALL RELOCATE ALL UTILITIES ON SITE THAT ARE IN THE PATH OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE RELOCATIONS WITH THE DEPARTMENT AND WITH EACH UTILITY AS NECESSARY.

3. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE ORIGINALS OR HIGH QUALITY COPIES (EASILY READABLE). NO FAXED SHEETS OR POOR QUALITY COPIES WILL BE ACCEPTED FOR SUBMITTAL REVIEW.

4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHT-OF-WAY PERMITS FOR WORK WITHIN THE RIGHT OF WAYS.

5. BACKFILL (NO CLAY OR CLAYEY MATERIAL) SHALL BE COMPACTED IN 12 INCH LAYERS TO 98% MAXIMUM DRY DENSITY OF MODIFIED PROCTOR IN CONFORMANCE WITH AASHTO T-180, METHOD A.

6. CONTRACTOR SHALL RESTORE ALL LANDSCAPING, SODDING AND PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER. CONTRACTOR SHALL SOD ALL UNPAVED AREAS.

7. ALUMINUM ACCESS COVERS SHALL BE U.S. FOUNDRY, OR EQUAL. ACCESS COVERS SHALL HAVE STAINLESS STEEL HARDWARE AND SHALL OPEN IN THE DIRECTION CORRESPONDING TO THE HINGES SHOWN ON PLANS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE INSTALLATION AND CONFIGURATION.

8. BOLTS, WASHERS, NUTS, SCREWS, HOOKS, BRACKETS, HINGES, ETC. INSTALLED WITHIN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.

9. FILL ALL OPENINGS AROUND PIPES (OR SLEEVES) AND ALL VOIDS IN STRUCTURAL WALLS WITH NON-SHRINK GROUT EXCEPT WHERE OTHERWISE SPECIFIED.

10. CONTRACTOR SHALL COORDINATE WITH TECO REGARDING THE PROPOSED ELECTRCAL SERVICE EQUIPMENT.

11. ALL METAL PIPE, FITTINGS, SUPPORTS, VALVES, ETC. SHALL RECEIVE:
(A) SHOP COAT – ONE COAT, 4 MILS, PORTER GLAZE 4300 EPOXY PRIMER, MADE BY PORTER PAINTS – GRAY IN COLOR.
(B) FIELD COAT – TWO COATS, 10 MILS, PORTERTUF 2000 HB COAL TAR EPOXY, MADE BY PORTER PAINTS – BLACK IN COLOR.

12. ALL METAL SURFACES COMING IN CONTACT WITH CONCRETE SHALL BE PROVIDED WITH NEOPRENE PADS OR 2 COATS OF COAL TAR EPOXY WITH PROPER SURFACE PREPARATION. CONTRACTOR SHALL SUBMIT SYSTEM(S) FOR APPROVAL.

13. ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1988.

14. LOCATIONS, ELEVATIONS AND DIMENSIONS OF THE 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 LOCATIONS, ELEVATIONS, AND DIMENSIONS, OF ALL EXISTING UTILITIES, STRUCTURE, AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION. GAS, VERIZON, WATER MAIN, WATER SERVICES, SEWER LATERALS AND OTHER SUBSURFACE PIPING HAS NOT BEEN LOCATED. ENGINEER OF RECORD SHOWS LOCATIONS AS APPROXIMATE AS PROVIDED BY OTHERS.

15. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION DENOTED BY UPPER AND LOWER CASE. PROPOSED WORK DENOTED BY ALL UPPER CASE.

16. THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES.

17. WHEN IN CONFLICT, UTILITY POLES, GAS LINES, UNDERGROUND ELECTRIC, TELEPHONE AND OTHER COMMUNICATION CABLES AND CONDUIT WILL BE RELOCATED BY THE RESPECTIVE UTILITY OWNERS AT THEIR OWN EXPENSE.

18. PRIOR TO ANY CONSTRUCTION, CONTACT TAMPA ELECTRIC COMPANY (PH: 813-228-4111 OR 813-275-3037) FOR EXACT LOCATION OF UNDERGROUND LINES. TECO TO RELOCATE ANY CONFLICTING LINES.

19. PRIOR TO ANY CONSTRUCTION, CONTACT TECO GAS (813-275-3743) FOR EXACT LOCATION OF UNDERGROUND LINES. TECO GAS TO RELOCATE ANY CONFLICTING LINES.

20. PRIOR TO ANY CONSTRUCTION, CONTACT VERIZON (813-978-2164) FOR EXACT LOCATION OF UNDERGROUND LINES. VERIZON TO RELOCATE ANY CONFLICTING LINES.

GENERAL NOTES (CONT.)

21. STATIONS AND OFFSETS GIVEN ARE TO THE CENTER LINE OF THE INLETS AND MANHOLES, AND REFER TO THE SURVEY BASE LINES.

22. THE SOLID WASTE DEPARTMENT (813-348-1146) IS TO BE NOTIFIED PRIOR TO ANY STREET CLOSURES IN THE PROJECT AREA.

23. TREE REMOVAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING SITE CLEARING PERMIT PRIOR TO START OF ANY CONSTRUCTION.

24. NECESSARY ROOT PRUNING AND TRIMMING OF BRANCHES SHALL BE DONE BY A CERTIFIED ARBORIST.

25. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF THE LATEST "TREE ORDINANCE" OF THE CITY OF TAMPA. THE CONTRACTOR IS REQUIRED TO RELOCATE THE TREES REMOVED AS A PART OF THE NECESSARY CONSTRUCTION INDICATED ON PLANS.

26. SOD ALL THE DISTURBED AREAS WITHIN APPROVED TRENCH LIMITS.

27. WHERE CONNECTIONS TO EXISTING DRIVES AND WALKS ARE NOT INDICATED ON THE PLANS, PROPER CONNECTIONS SHALL BE MADE AT THE DIRECTION OF THE ENGINEER.

28. STREET SIGNS, STREET MARKERS AND R-O-W MARKERS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER.

29. MAILBOXES SHALL BE REMOVED AND REPLACED IN-KIND.

30. DRIVEWAYS SHALL BE RECONSTRUCTED IN ACCORDANCE WITH CHAPTER 25 OF THE CITY CODE AND THE TRANSPORTATION TECHNICAL MANUAL. DEVIATION FROM ESTABLISHED STANDARDS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.

31. THE CONTRACTOR SHALL PROTECT ALL TREES IN THE VICINITY OF THE PROPOSED CONSTRUCTION IN ACCORDANCE WITH CHAPTER 13 OF THE CITY OF TAMPA CODE. NO TREES SHALL BE PRUNED WITHOUT PRIOR APPROVAL FROM THE CITY OF TAMPA PARKS & RECREATION DEPARTMENT, NATURAL RESOURCES DIVISION, AND SHALL BE COMPLETED BY A CERTIFIED ARBORIST. ROOT PRUNING MAY BE REQUIRED AT CERTAIN LOCATIONS AND SHALL BE COMPLETED IN ACCORDANCE WITH CHAPTER 13 TECHNICAL MANUAL SPECIFICATIONS.

32. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE CITY OF TAMPA DEPARTMENT ORDINANCES AND REGULATIONS.

33. THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL APPLICABLE PERMITS ON-SITE AND SHALL BE RESPONSIBLE TO ADHERE TO ALL PERMIT CONDITIONS DURING CONSTRUCTION.

34. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.

35. COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-99 (100%).

TREE NOTES

1. ALL WORK WITHIN THE PROTECTIVE RADIUS OF THE TREES MUST BE COORDINATED WITH PLANNING AND DEVELOPMENT, IN ACCORDANCE WITH CHAPTER 13 OF THE CITY OF TAMPA CODE AND NATURAL RESOURCES SECTION WHO CAN BE REACHED AT (813) 274-3100.
2. PRIOR TO ANY CONSTRUCTION ACTIVITIES, PROTECTIVE BARRICADES SHALL BE INSTALLED AROUND ALL PROTECTED TREES AND GRAND TREES WITHIN FIFTEEN FEET OF THE FORCE MAIN OR PUMP STATION.
   a) BARRICADES SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET FROM A PROTECTIVE TREE AND A MINIMUM OF TWENTY (20) FEET FROM A GRAND TREE.
3. NO CHANGES SHALL TAKE PLACE TO THE PREDEVELOPMENT CONDITIONS WITHIN THE PROTECTIVE ROOT ZONE DURING THE CONSTRUCTION PROCESS, UNLESS NOTED ON THE PLANS.
4. NO PARKING OR STORAGE OF VEHICLES, EQUIPMENT, OR MATERIALS IS ALLOWED WITHIN THE PROTECTIVE ROOT ZONE.
5. ALL TREE TRIMMING AND ROOT PRUNING MUST BE SUPERVISED BY A CERTIFIED ARBORIST AND PERFORMED CLEANLY WITH APPROVED CUTTING TYPE EQUIPMENT, SUCH AS A CHAINSAW, HAND SAW, OR OTHER CUTTING EQUIPMENT.

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1			4		
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ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - DONUT POND PUMP STATION

GENERAL NOTES

SHEET G3 OF 17

SW 2026-04

SITE NOTES

1. ALL DESIGN AND CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET DOWN IN CITY OF TAMPA STORMWATER TECHNICAL MANUAL, LATEST VERSION.
2. ALL RIGHT-OF-WAY INSTALLATIONS MUST COMPLY WITH THE CITY OF TAMPA STANDARDS AND TECHNICAL MANUALS.
3. IN AREAS WHERE FILL MATERIAL IS REQUIRED, THE EXISTING VEGETATION AND ROOTS SHALL BE REMOVED PRIOR TO PLACING ANY FILL MATERIAL. THE FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 12 INCHES AS MEASURED LOOSE, AND COMPACTED TO A UNIFORM DENSITY ASTM D698. THE MATERIAL SHALL BE COMPACTED AT A MOISTURE CONTENT PERMITTING THE SPECIFIED COMPACTION. THE FILL SHALL BE TESTED BY THE CITY OF TAMPA THROUGH THE CITY INSPECTOR AND THE RESULTS SUPPLIED TO THE ENGINEER.
4. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY ON ANY CONFLICTS ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONSULT WITH THE ENGINEER FOR MAKING ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS. HOWEVER, THIS IN NO WAY RELIEVES THE CONTRACTOR OF HIS RESPONSIBILITY FOR CONSTRUCTING THE PROJECT TO ACCOMPLISH THE INTENT OF THE PLANS.
5. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING BEFORE COMMENCING CONSTRUCTION UNLESS SPECIFICALLY EXEMPTED BY THE PLANS.
6. EROSION/SEDIMENTATION CONTROL: THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN), IF REQUIRED TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON THE GROUND, AS REQUIRED, IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE, EITHER BY NATURAL DRAINAGE OR BY VEHICLE TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR LOCAL AUTHORITIES.
7. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREA TO CONTROL BOTH SIGNIFICANT WIND EROSION OR FUGITIVE DUST.
9. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. PORTLAND CEMENT SHALL CONFORM TO ASTM C150. AGGREGATE SHALL CONFORM TO ASTM C33. READY MIXED CONCRETE SHALL CONFORM TO ASTM C-04. SUBSURFACE SHALL BE FREE FROM TROWEL OR MACHINE MARKS. SURFACE VARIATIONS SHALL NOT EXCEED 1/4 INCH UNDER TEN-FOOT (10') STRAIGHT EDGE.
10. ALL GRADING OF SIDEWALKS AND PEDESTRIAN WALKWAYS SHALL MEET MINIMUM 'ADA' STANDARDS. SIDEWALK CROSS SLOPES AND DRIVEWAY CROSSINGS FOR SIDEWALKS TO BE 2.0% MAX. SLOPE. ALL SIDEWALK RUNNING SLOPES SHALL NOT EXCEED 5% WITHOUT USE OF PROPER RAMPS FOR FDOT OR FLORIDA BUILDING CODE. CONTRACTOR SHALL FIELD-VERIFY SIDEWALK FORM BOARDS PRIOR TO CONSTRUCTING WALKWAYS.
11. ALL INLET GRATE SEATS SHALL BE GALVANIZED GRATE SEATS.

CONSTRUCTION NOTES

1. PRICE FOR ALL REMOVAL, AS SHOWN ON THE PLANS OUTSIDE OF CONSTRUCTION EXCAVATION AREA, SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE STORMWATER UNIT PRICES.
2. CONTRACTOR TO SOD DISTURBED RIGHT-OF-WAY WITH BAHIA SOD AND/OR LIKE KIND OF EXISTING SOD.
3. CONTRACTOR TO RESTORE DISTURBED RESIDENTIAL YARDS WITHIN CONSTRUCTION LIMITS WITH BAHIA, ST. AUGUSTINE, AND/OR LIKE KIND OF SOD.
4. CONTRACTOR SHALL RESTORE ALL NEIGHBORING RESIDENTIAL YARDS WITH LIKE KIND OF LANDSCAPING, MAILBOXES, WALK WAYS, DRIVEWAYS, ETC. EACH YARD SHALL BE RESTORED TO EXISTING CONDITIONS UP TO AND INCLUDING FROM BACK OF CURB TO RIGHT OF WAY LINE.
5. CONTRACTOR TO PROTECT EXISTING IRRIGATION SYSTEMS AND ANY OTHER UTILITIES IN RESIDENTIAL YARDS WITHIN CONSTRUCTION LIMITS AND/OR RESTORE ANY DAMAGED SYSTEMS DURING CONSTRUCTION BACK TO EXISTING CONDITIONS.
6. CONTRACTOR TO PROTECT EXISTING PRIVATE FENCES DURING CONSTRUCTION OR REPLACE IN LIKE KIND.
7. CONTRACTOR TO PROTECT THE EXISTING CONDUIT THAT IS TO REMAIN.
8. ALL REMOVAL WITHIN PROPOSED EXCAVATION AREAS IS PART OF PIPE & DITCH CONSTRUCTION.
9. PRICE FOR ALL REMOVAL, AS SHOWN ON THE PLANS OUTSIDE OF CONSTRUCTION AREA, SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE STORMWATER UNIT PRICE ITEMS.
10. CONTRACTOR SHALL CONTACT SUNSHINE WITHIN 48 HOURS PRIOR TO ANY CONSTRUCTION.
11. CONTRACTOR TO PROTECT ALL POWER POLES & SUBSURFACE UTILITIES. IN THE EVENT OF A CONFLICT THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY PROVIDER RESPONSIBLE FOR THE RELOCATION.
12. ALL RCP PIPES SHALL BE CLASS III WITH MINIMUM COVER OF 18". ALL RCP PIPES WITH LESS THAN 18" OF COVER ON RESIDENTIAL ROADS SHALL BE CLASS IV.
13. CONCRETE STRUCTURES AND JUNCTION BOXES MAY BE PRECAST OR CAST IN PLACE.
14. FOR BRICK/PAVER DRIVEWAYS THE INTENT IS TO STACK AND STORE ANY DISTURBED PAVERS, AND TO RESTORE ANY DAMAGED PAVERS AS CLOSE AS POSSIBLE.

SURVEY NOTES:

1. FIELD WORK PERFORMED BY POLARIS ASSOCIATES, INC., DATE OF SURVEY: 04/29/2025.

Plot Date: Monday, April 27, 2026

No.	DATE	REVISIONS	No.	DATE	REVISIONS
1			4		
2			5		
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ATLAS

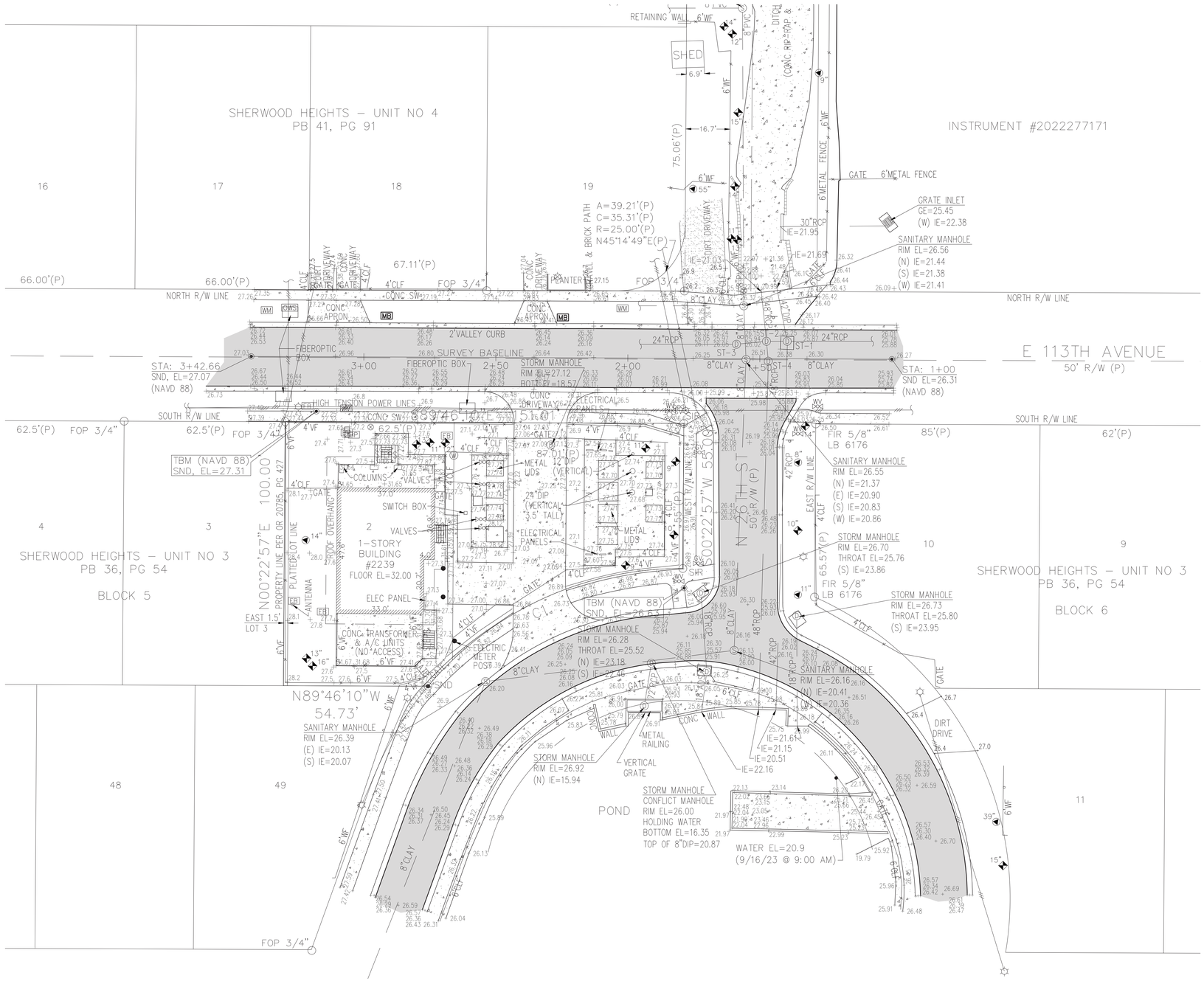
CITY of TAMPA
Mobility Department
Stormwater Engineering Division

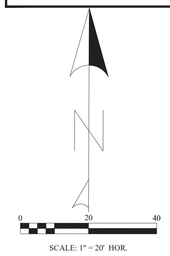
PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - DONUT POND PUMP STATION

GENERAL NOTES

SHEET G4 OF 17

SW 2026-04





LEGEND:

EXISTING ASPHALT PAVEMENT

EXISTING CONCRETE

SURVEYOR'S NOTES:

1. Bearings are based on the west right-of-way line of n 26th street, being assumed as S00°22'57"W.
2. Survey map and report or the copies thereof are not valid without the signature and the original raised seal of a florida licensed surveyor and mapper. Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited.
3. No excavation was performed to verify the location or existence of any underground utilities, encroachments, improvements, structures or foundations. Underground utility line locations (if shown hereon) are based upon utility provider atlases and visible surface evidence.
4. Re-use of this survey for purposes other than which it was intended, without written verification, will be at the re-users sole risk and without liability to the surveyor. Nothing herein shall be construed to give any rights or benefits to anyone other than those to whom certified.
5. All found points are unmarked unless otherwise noted. All perimeter bearings and distances are also field measured unless noted.
6. This survey is not intended to show the location or existence of any jurisdictional, hazardous or environmentally sensitive areas.
7. The site appears to be in flood zone ae (el 30.3 & 30.7 feet), according to the federal emergency management agency, flood insurance rate map, community panel number 120114, map number 12057c0216h, effective date 8/28/2008 (map index number 12057cind2e, map revised date october 7, 2021). Polaris associates, inc. and the signing surveyor hereon assumes no liability for the accuracy of this determination. The author of the map, the federal emergency management agency, or the local governmental agency having jurisdiction over such matters should be contacted prior to any judgments being made from this information. The above referenced map states in the notes to the user that "this map is for use in administering the national flood insurance program" and "that base flood elevations (bfes) shown represent rounded whole-foot elevations and therefore may not exactly reflect the flood elevation data presented in the flood insurance study (fis) report". The fis report was not consulted for this survey.
8. Any zoning information shown or noted hereon is based on information available during the preparation of the survey. This information should be verified with the governing authority prior to any determinations or design.
9. Shown anywhere on this survey, the word "certify" is understood to be an expression of a professional opinion based upon the surveyor's best knowledge, information and belief, and that it thus constitutes neither a guarantee nor a warranty.
10. Unless otherwise indicated, the property description and easements shown were furnished to polaris associates, inc. and are presumed to be correct. No search of any public records, for easements, deeds, etc., was performed by this firm for the completion of this survey and there may be additional restrictions that may be found in the public records of this county.
11. This survey was prepared without the benefit of an abstract of title and may be subject to easements, restrictions, rights-of-way and other matters of record.
12. Elevations are based on a city of tampa benchmark, hv-02 0259, having an elevation of 37.622, north american vertical datum 1988 (navd 88).
13. Trees 4" in diameter and larger have been located with common name and approximate diameter breast high. Smaller trees, non-protected species (including ornamentals) and trees within jurisdictional areas (if any) have not been located. Trees by nature are irregular in size and shape. Every effort is made to accurately locate trees. The tree location is the center of the tree. This location may be different if located from a different direction. All tree locations should be field checked if critical to design.
14. This survey is based on u.s. feet.

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ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

PUMP STATION RESILIENCY AND RELIABILITY IMPROVEMENTS - CURIOSITY CREEK PUMP STATION

EXISTING CONDITIONS

SHEET C1 OF 17

SW 2026-04

PLAN SYMBOLS

Symbol	Description
	HOME RUN TO PANELBOARD. NO. OF ARROWS INDICATE NO. OF CIRCUITS, HASH MARKS INDICATE NO. OF #12 AWG. CONDUCTORS. NO HASH MARKS INDICATE 2 #12 CONDUCTORS.
	CONDUIT CONCEALED IN WALL, IN SLAB ABOVE, OR ABOVE CEILING
	CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.
	CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.
	FLEXIBLE CONDUIT WITH EQUIPMENT CONNECTION.
	CONCRETE ENCASED DUCTBANK.
	EXTERIOR LED LUMINAIRE AND MOUNTING STANDARD.
J	JUNCTION BOX N.E.C. SURFACE MOUNTED UNLESS INDICATED OTHERWISE.
J	JUNCTION BOX PER N.E.C., FLUSH MOUNTED UNLESS INDICATED OTHERWISE.
	FLUSH OR SURFACE MOUNTED LIGHTING PANELBOARD.
	FLUSH OR SURFACE MOUNTED POWER PANELBOARD.
30	DRY TYPE TRANSFORMER. NO. INDICATES KVA RATING.
	LIQUID FILLED TYPE TRANSFORMER
	20A, 125V, 3W DUPLEX RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.
	20A, 125V, 3W DUPLEX GFI RECEPTACLE IN FLUSH OUTLET BOX MOUNTED 18" ABOVE FINISHED FLOOR
	20A, 125V, 3W DUPLEX RECEPTACLE, SURFACE MOUNTED.
WP	SURFACE MOUNTED GROUND FAULT DUPLEX WEATHERPROOF RECEPTACLE WITH COVER RATED NEMA 4 WHILE IN USE 20A, 125V, 3W – MOUNTED 18" ABOVE FINISHED FLOOR.
WP	FLUSH MOUNTED GROUND FAULT DUPLEX WEATHERPROOF RECEPTACLE WITH WP COVER RATED NEMA 4 WHILE IN USE MOUNTED 18" ABOVE FINISHED FLOOR
S	SINGLE POLE SWITCH WITH PILOT LIGHT IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED (TYPICAL).
S	SINGLE POLE SWITCH, WITH PILOT LIGHT SURFACE MOUNTED.
S_3	THREE-WAY SWITCH IN FLUSH OUTLET BOX.
	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED.
	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY ELEMENTARY DIAGRAMS OR SPECS.
75	ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.
P	POWER PULLBOX, SEE DETAIL
C	CONTROL PULLBOX. SEE DETAIL
VFD	VARIABLE FREQUENCY DRIVE
T	THERMOSTAT
	ELECTRIC HEATER
TW	GROUND TEST WELL
	GROUND ROD
O/R	OFF/REMOTE
FS	FLOW SWITCH
LE	LEVEL ELEMENT
LIT	LEVEL INDICATING TRANSMITTER
TS	TEMPERATURE SWITCH
SF	SEAL FAIL
TE	TEMPERATURE ELEMENT
PS	PRESSURE SWITCH
FE	FLOW ELEMENT
FIT	FLOW INDICATING TRANSMITTER
TC	TERMINATION CABINET WITH COPPER LUGS IN NEMA 4X 316 SS ENCLOSURE
SH	SPACE HEATER
LLS	LIQUID LEVEL SWITCH

SINGLE LINE DIAGRAM SYMBOLS

Symbol	Description
	COMBINATION MOTOR STARTER
ST	SHUNT TRIP
	FUSE
	CAPACITOR
	MOLDED CASE CIRCUIT BREAKER
	TYPICAL SELECTOR SWITCH AND CONTROL. SEE ELEMENTARY DIAGRAMS FOR EXACT TYPE.
75	ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.
	SERVICE OR EQUIPMENT GROUND.
	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED.
	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY ELEMENTARY DIAGRAMS OR SPECS.
	120/208V PANELBOARD
	480V PANELBOARD.
	CURRENT TRANSFORMERS
	POTENTIAL TRANSFORMERS.
SH	SPACE HEATER
TS	TEMPERATURE
	CROUSE HINDS EYSR FITTING. FILLED WITH CHICO CEMENT
	CROUSE HINDS EYS FITTING. FILLED WITH CHICO CEMENT
K	KIRK KEY INTERLOCK
FS	FLOW SWITCH
TC	NEMA 4X 316SS TERMINATION CABINET

CONTROL DIAGRAM SYMBOLS

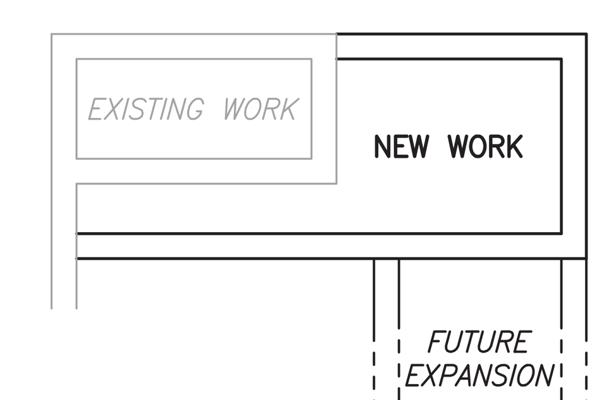
Symbol	Description
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	LIMIT SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	PRESSURE SWITCH, NORMALLY OPEN
	PRESSURE SWITCH, NORMALLY CLOSED
	FLOAT SWITCH, NORMALLY OPEN
	FLOAT SWITCH, NORMALLY CLOSED
	FLOW SWITCH, NORMALLY OPEN
	FLOW SWITCH, NORMALLY CLOSED
	TEMPERATURE SWITCH, NORMALLY OPEN
	TEMPERATURE SWITCH, NORMALLY CLOSED
	NORMALLY OPEN, TIMED TO CLOSE CONTACT
	NORMALLY CLOSED, TIMED TO OPEN CONTACT
	NORMALLY CLOSED, TIMED TO CLOSE CONTACT
	NORMALLY OPEN, TIMED TO OPEN CONTACT
AR	ALARM RELAY
AT	ALARM TIMER
CR	CONTROL RELAY
M	MOTOR STARTER
MC	MOTOR CALL
TR	TIMING RELAY
A	ALARM INDICATING LIGHT
R	RUN INDICATING LIGHT
	MOMENTARY CONTACT PUSHBUTTON
	MOMENTARY BREAK PUSHBUTTON OR RESET
K	KEYED SWITCH
	MAINTAINED CONTACT ON-OFF SWITCH
	START/STOP(S/S) CONTROL SWITCH MAINTAINED CONTACT
	THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH
	FUSE
	MOLDED CASE CIRCUIT BREAKER
	CONTROL POWER TRANSFORMER
	REMOTE TERMINAL BLOCK POINT

ABBREVIATIONS

A	AMPERES
AIC	AMPS INTERRUPTING CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BLDG	BUILDING
CPCP	CHEMICAL FEED CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CU	COPPER
CT	CURRENT TRANSFORMER
DH	DATA HIGHWAY
DISC	DISCONNECT
DSB	DISTRIBUTION SWITCHBOARD
EAP	EYEWASH ALARM PANEL
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EF	EXHAUST FAN
EQ	EQUALIZATION
ETM	ELAPSED TIME METER
EXH	EXHAUST
EXIST	EXISTING
FBC	FLORIDA BUILDING CODE
FPL	FLORIDA POWER & LIGHT
FPP	FIBER PATCH PANEL
FVNR	FULL VOLTAGE NON-REVERSING
GCP	GENERATOR CONTROL PANEL
GEN	GENERATOR
GFR	GROUND FAULT RECEPTACLE
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
GST	GROUND STORAGE TANK
HMI	HUMAN MACHINE INTERFACE
HP	HORSEPOWER
JB	JUNCTION BOX
KVA	KILO VOLT-AMPERES
KW	KILOWATT
LP	LOOP
LSCP	LIFT STATION CONTROL PANEL
LTG	LIGHTING
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MPZ	MINI POWER ZONE
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
NEC	NATIONAL ELECTRICAL CODE
N	NEUTRAL
NIP	NETWORK INTERFACE PANEL
NSR	NETWORK SERVER RACK
NTS	NOT TO SCALE
OH	OVERHEAD
P	POLE
PCP	PROCESS CONTROL PANEL
PM	PHASE MONITOR
PVC	POLYVINYL CHLORIDE
RECPT	RECEPTACLE
RCP	REMOTE I/O CONTROL PANEL
RIO	REMOTE I/O
RPVP	RAS PUMP VFD PANEL
RTO	RETURNED TO OWNER
SH	SHIELDED
SLD	SINGLE LINE DIAGRAM
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
SSS	SOLID STATE STARTER
STR	STARTER
TC	TERMINATION CABINET
TYP	TYPICAL
TBR	TO BE REMOVED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
w/	WITH
WP	WEATHERPROOF
WTP	WATER TREATMENT PLANT
WWTP	WASTEWATER TREATMENT PLANT
XFMR	TRANSFORMER
ø	PHASE

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2023 8TH EDITION FLORIDA BUILDING CODE SCC CHAPTER 40, APPENDIX A, 106.3.5, THE 2020 NATIONAL ELECTRICAL CODE, (REF: SCCC CHAPTER 40, APPENDIX A, 106.3.5) NFPA 1, NFPA 70 AND NFPA 101 2020 AND SHALL COMPLY WITH ALL LOCAL RULES.
2. THE PLANS REFLECT SYSTEM VOLTAGE DROPS AS PER F.B.C. ENERGY CONSERVATION 2020, C405.6.3 FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD. BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD.
3. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED.
4. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC... THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
5. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING, UNLESS OTHERWISE NOTED.
6. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
7. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE N.E.C. 2020 EDITION OR LOCAL CODES. ALL CONDUITS SHALL HAVE A BOND WIRE SIZED PER TABLE 250-122 OF THE 2020 NATIONAL ELECTRICAL CODE.
8. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
9. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/OWNER.
10. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN TWO YEARS FROM DATE OF ACCEPTANCE.
11. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.
13. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/ TYPED WRITTEN DIRECTORIES (NEW & EXISTING).
14. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
15. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE MECHANICAL DRAWINGS & THE APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT.
16. NON-SHADED TEXT DENOTES NEW EQUIPMENT, STRUCTURES AND WORK. *SHADED AND SLANTED* TEXT DENOTES EXISTING EQUIPMENT OR STRUCTURES.
17. ALL CONTROL PANELS SHALL BE UL LISTED AND SHALL COMPLY WITH ARTICLE 409 OF THE NEC.
18. ALL EMPTY CONDUITS SHALL BE INSTALLED WITH PULLSTRING.
19. PER THE FBC-ENERGY CONSERVATION, WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING THE FOLLOWING:
   a. SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
   b. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION (REF: FBC-ECC405.5.4.1-8TH EDITION).



EXISTING OR FUTURE CONDITION DESIGNATION

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3			6		

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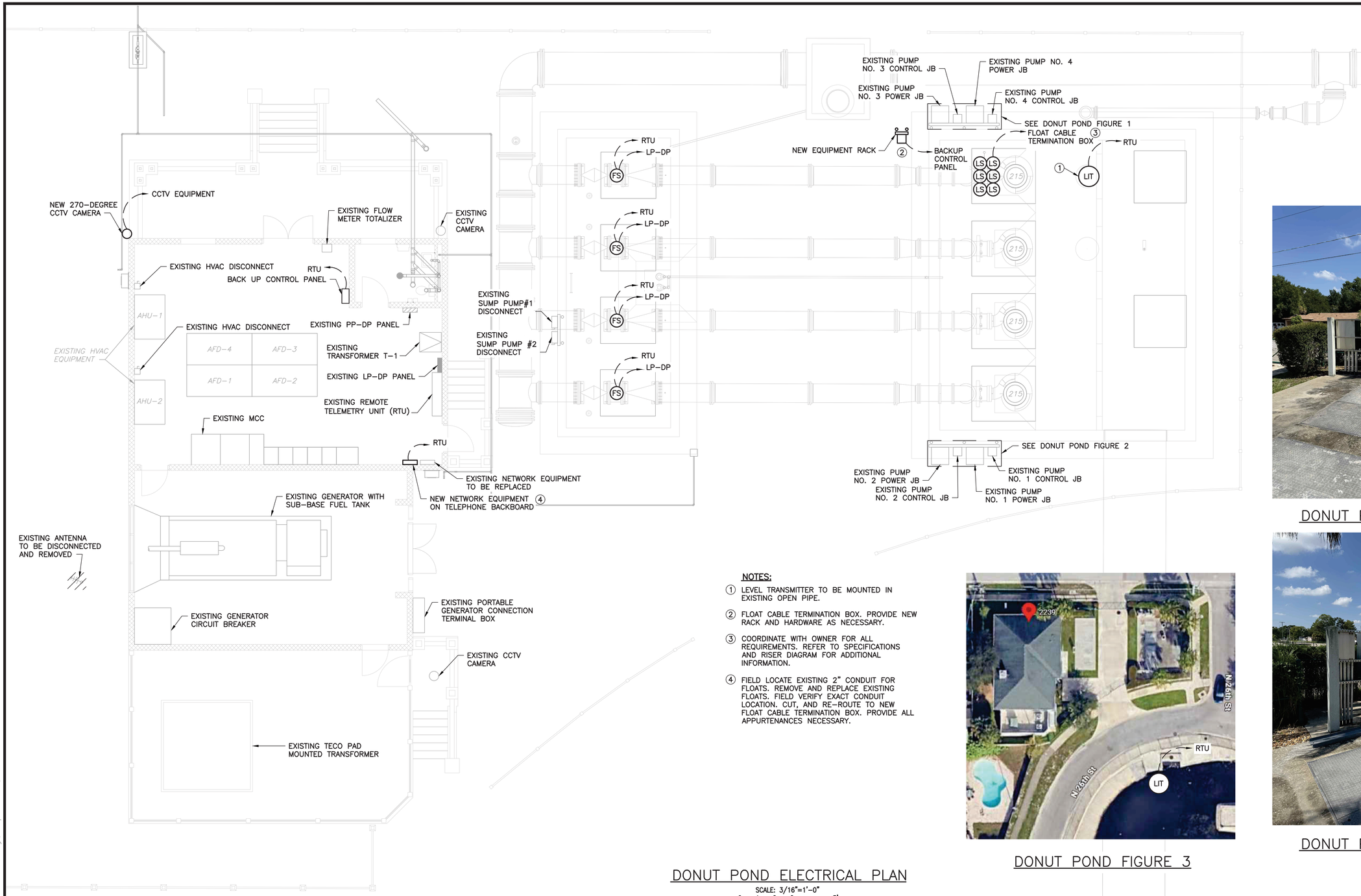
Mobility Department
Stormwater Engineering Division

ELECTRICAL SYMBOLS, NOTES, AND ABBREVIATIONS

SW 2026-04



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DONUT POND FIGURE 1

DONUT POND FIGURE 2

NOTES:

1. LEVEL TRANSMITTER TO BE MOUNTED IN EXISTING OPEN PIPE.
2. FLOAT CABLE TERMINATION BOX. PROVIDE NEW RACK AND HARDWARE AS NECESSARY.
3. COORDINATE WITH OWNER FOR ALL REQUIREMENTS. REFER TO SPECIFICATIONS AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.
4. FIELD LOCATE EXISTING 2" CONDUIT FOR FLOATS. REMOVE AND REPLACE EXISTING FLOATS. FIELD VERIFY EXACT CONDUIT LOCATION. CUT, AND RE-ROUTE TO NEW FLOAT CABLE TERMINATION BOX. PROVIDE ALL APPURTENANCES NECESSARY.

DONUT POND FIGURE 3

DONUT POND ELECTRICAL PLAN

SCALE: 3/16"=1'-0"

6 4 2 0 5'

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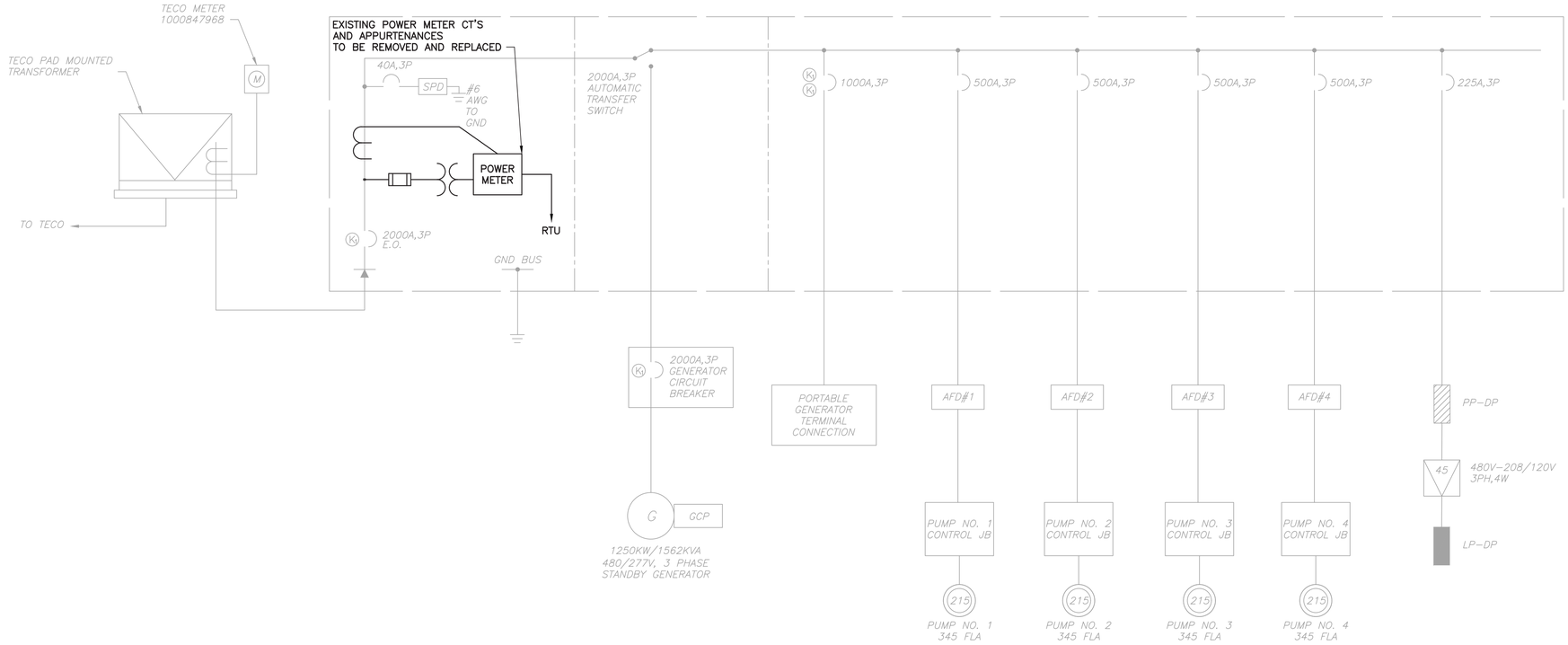
DONUT POND ELECTRICAL SITE PLAN

SHEET E2 OF 17

SW 2026-04



EXISTING MCC SINGLE LINE DIAGRAM (MODIFICATION)

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DONUT POND SINGLE LINE DIAGRAM (MODIFICATION)

SHEET E3 OF 17

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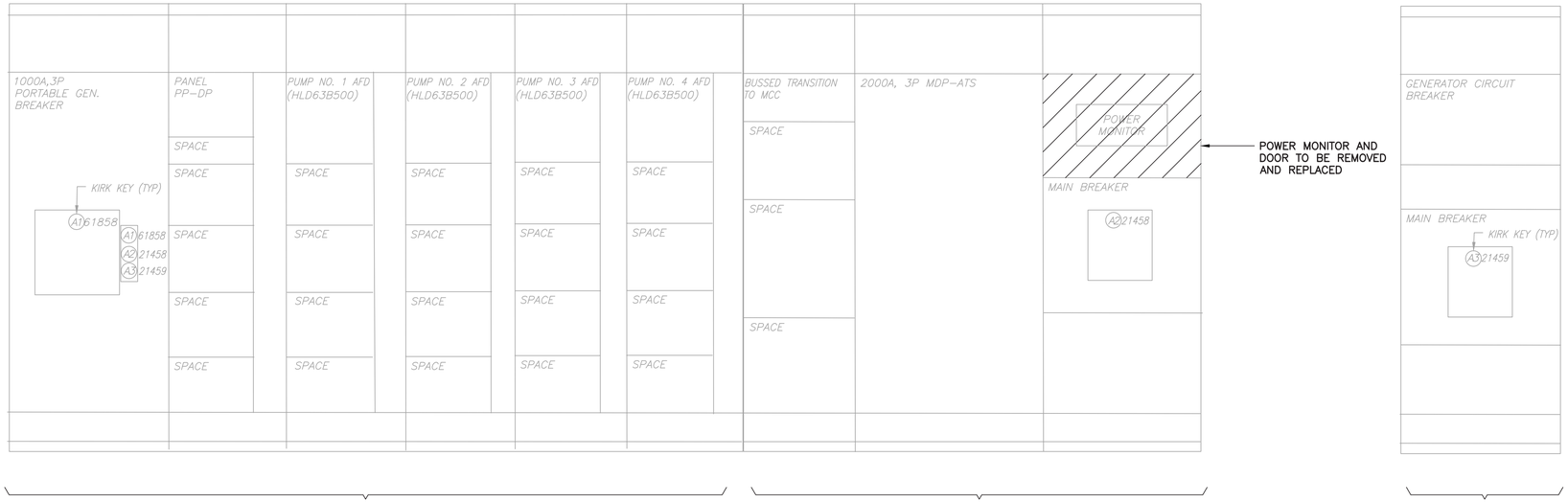

MCC FRONT ELEVATION

SWITCHBOARD FRONT ELEVATION

GENERATOR CIRCUIT BREAKER FRONT ELEVATION

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Stormwater Engineering Division

DONUT POND FRONT VIEWS

SHEET E4 OF 17

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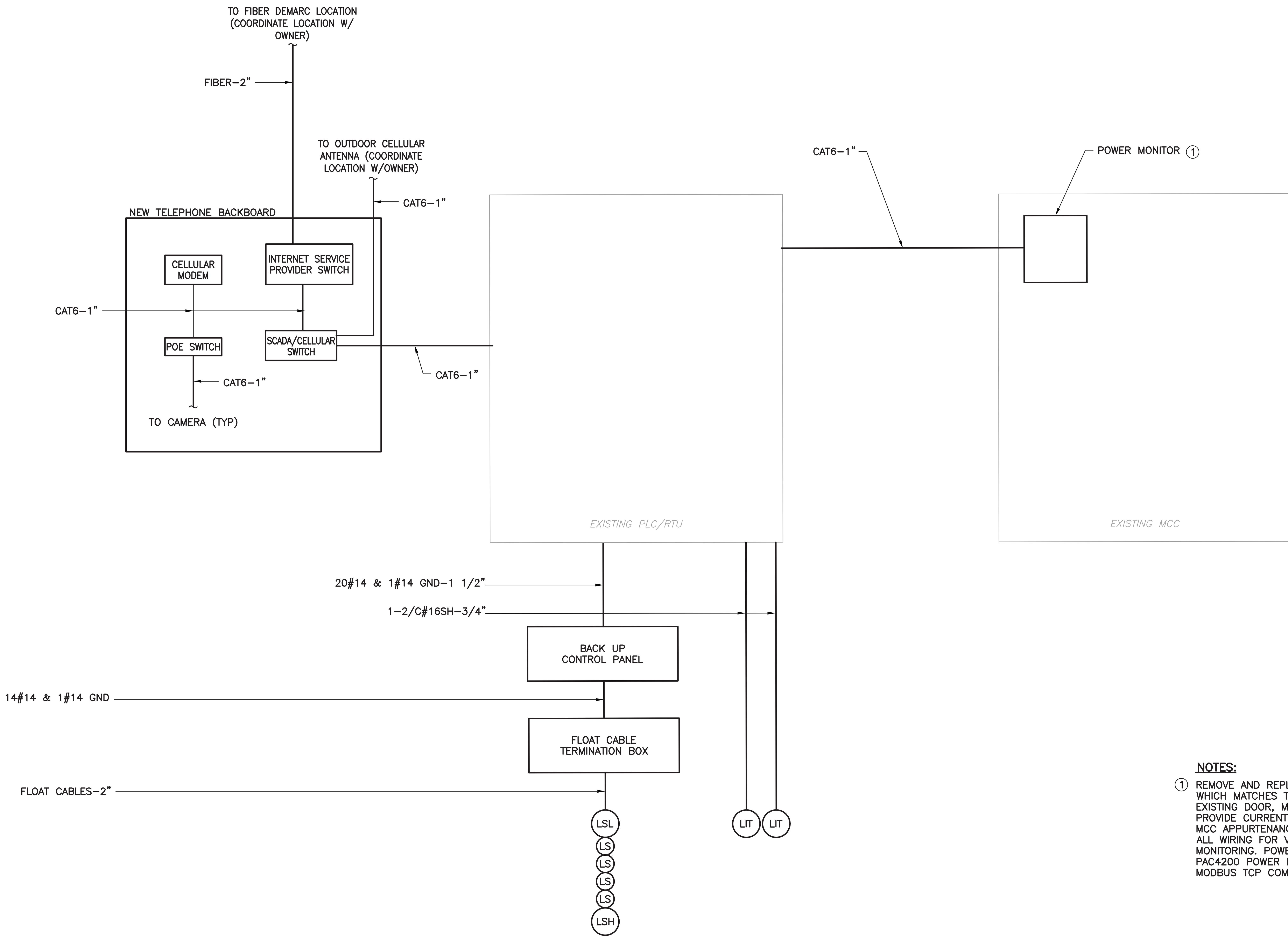

NOTES:

1. REMOVE AND REPLACE POWER METER AND DOOR, WHICH MATCHES THE ANSI COLOR OF THE EXISTING DOOR, MOUNTED IN THE EXISTING MCC. PROVIDE CURRENT TRANSFORMERS, WIRING, AND MCC APPURTENANCES NECESSARY. AND PROVIDE ALL WIRING FOR VOLTAGE AND CURRENT MONITORING. POWER METER SHALL BE A SIEMENS PAC4200 POWER METER OUTFITTED WITH A MODBUS TCP COMMINICATIONS MODULE.

INSTRUMENTATION AND CONTROL RISER DIAGRAM

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DONUT PLAN RISER DIAGRAM

SHEET E5 OF 17

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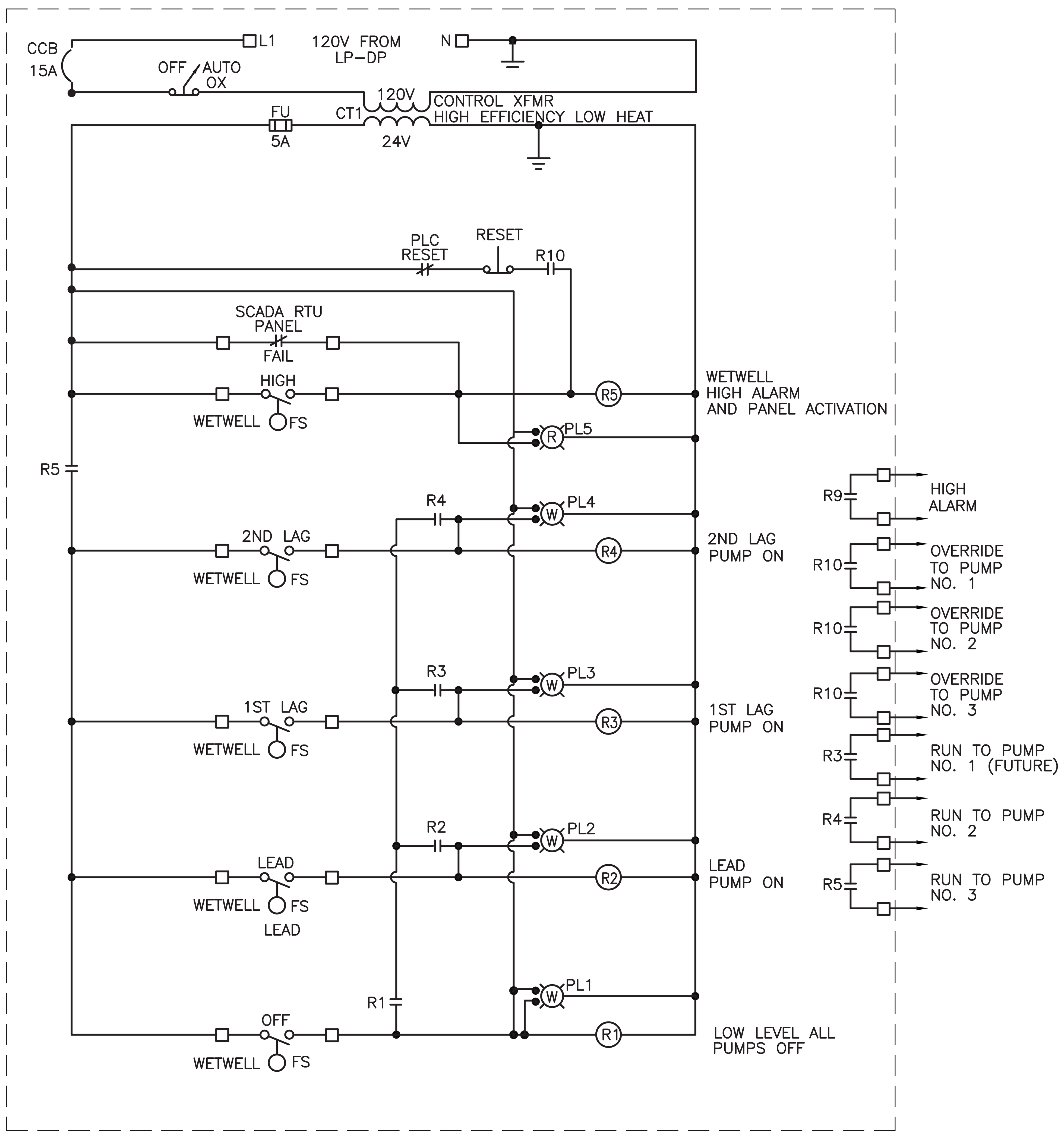


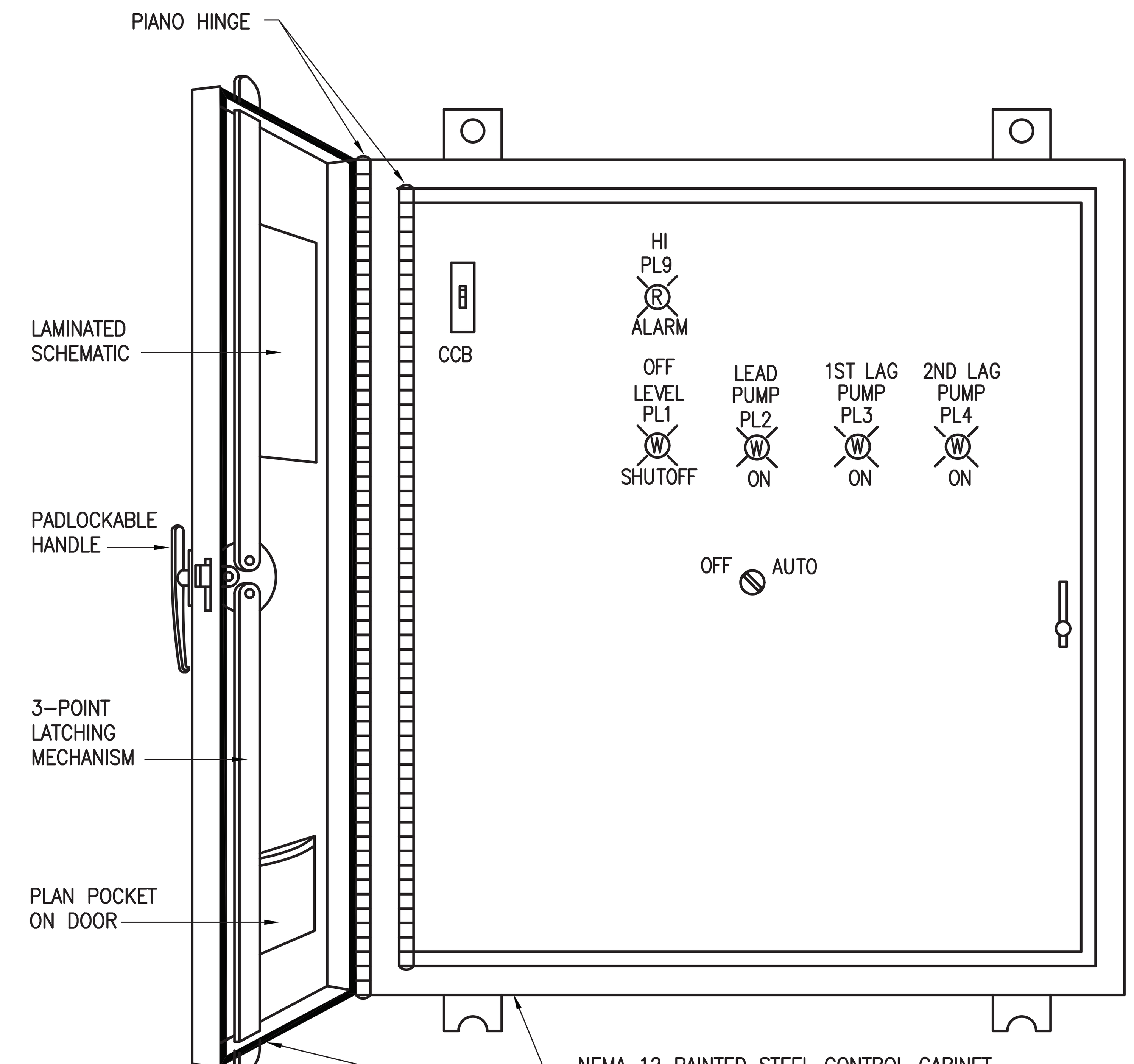
BACK-UP CONTROL PANEL (BCP)
NOT TO SCALE

NOTES:

1. PROVIDE PERMANENT LABELS FOR ALL SWITCHES, PUSHBUTTONS AND LIGHTS WITH PROPER ENGRAVING.
2. ELEMENTARY IS SHOWN FOR TRIPLEX. CONTRACTOR SHALL PROVIDE ADDITIONAL WIRING AND RELAYS FOR QUADRUPLEX.

DRAWING LEGEND

LEGEND	NOMENCLATURE
CCB	CONTROL BREAKER
CT1	STEP DOWN TRANSFORMER 120V/24V
FU	FUSE
FS	FLOAT SWITCH
PB	PUSH BUTTON
PL	TESTABLE PANEL LIGHT



NEMA 12 PAINTED STEEL CONTROL CABINET, 36"Hx30"Wx10"D MINIMUM.
THE CABINET SIZE SHALL BE ADJUSTED AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER IN ORDER TO ACCOMMODATE THE DIFFERENT EQUIPMENT SIZES FURNISHED. ADJUST THE NUMBER OF LAG PUMPS PER APPLICATION.

BACK-UP CONTROL PANEL DEAD FRONT VIEW
NOT TO SCALE

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DONUT POND BACKUP CONTROL PANEL ELEMENTARY DIAGRAM

SHEET E6 OF 17

SW 2026-04

① PANEL: LP-DP — BUS: 125 AMP — VOLT: 120/208, 3P, 4W
LOCATION: ELECTRICAL ROOM — MAIN: 125 — REMARKS: –
MOUNTING: SURFACE — POLES: 42– — A.I.C. SYMM: 22,000 AMPS

AMPS	POLE	WIRE	GND.	COND.	LOAD SERVED	BUS KVA A	BUS KVA B	BUS KVA C	BUS A B C		BUS KVA A	BUS KVA B	BUS KVA C	LOAD SERVED	WIRE	GND.	COND.	POLE	AMPS
50	2	–	–	–	GEN. JACKET WATER HEATER	–			1	2	–			GEN. SPACE HEATER	–	–	–	1	20
–	–	–	–	–	–		–		3	4		–		PLC/CONTROL PANEL	–	–	–	1	20
15	1	–	–	–	FLOW METER TOTALIZER			–	5	6			–	GEN. BATTERY CHARGER	–	–	–	1	20
20	1	–	–	–	RESTROOM LIGHTING & FAN	–			7	8	–			GEN. ROOM LIGHTING	–	–	–	1	20
20	1	–	–	–	ELECTRICAL ROOM LIGHTING		–		9	10		–		ELECTRICAL ROOM LIGHTING	–	–	–	1	20
15	3	–	–	–	AHU–2			–	11	12			–	AHU–1	–	–	–	3	15
–	–	–	–	–	–	–			13	14	–			–	–	–	–	–	–
–	–	–	–	–	–		–		15	16		–		–	–	–	–	–	–
20	1	–	–	–	GEN ROOM RECEPTACLES			–	17	18			–	ELECTRICAL ROOM RECEPTACLES	–	–	–	1	20
20	1	–	–	–	EXTERIOR RECEPTACLES	–			19	20	–			IRRIGATION CONTROLLER	–	–	–	1	20
20	1	–	–	–	EXTERIOR LIGHTING		–		21	22		–		EXTERIOR LIGHTING	–	–	–	1	20
20	1	–	–	–	EXTERIOR LIGHTING			–	23	24			–	SUMP PUMP	–	–	–	1	20
20	1	–	–	–	SUMP PUMP	–			25	26	–			ELECTRONIC TRAP PRIMER	–	–	–	1	15
20	1	12	12	3/4"	FLOW SWITCH 1		0.10		27	28		0.12		BACKUP CONTROL PANEL	12	12	3/4"	1	20
20	1	12	12	3/4"	FLOW SWITCH 2			0.10	29	30			–	SPARE	–	–	–	1	20
20	1	12	12	3/4"	FLOW SWITCH 3	0.10			31	32	–			SPARE	–	–	–	1	20
20	1	12	12	3/4"	FLOW SWITCH 4		0.10		33	34		–		SPACE	–	–	–	–	–
20	1	–	–	–	SPACE			–	35	36			–	SPACE	–	–	–	–	–
20	1	–	–	–	SPACE	–			37	38	–			SPACE	–	–	–	–	–
20	1	–	–	–	SPACE		–		39	40		–		SPACE	–	–	–	–	–
20	1	–	–	–	SPACE			–	41	42			–	SPACE	–	–	–	–	–

	A	B	C	BUS	A	B	C	NOTES:
TOTAL (PHASE):	–	–	–		–	–	–	–
TOTAL KVA:				–				
TOTAL AMPS:				–				
TOTAL DEMAND AMPS:				–				

DONUT POND PANEL LP–DP

NOTES:

① EXISTING PANELBOARD SCHEDULE IS BASED ON EXISTING AS–BUILT INFORMATION. TRACE ALL EXISTING CIRCUITS, VERIFY EXISTING LOADS, AND PROVIDE NEW TYPE WRITTEN LAMINATED SCHEDULE.

MCC LOAD TABULATION
480V–3ϕ–3W

DESCRIPTION	LOAD	AMPACITY
PUMPS	4 @ 215 HP	=1380.00 AMPS
LIGHTING PANEL		= 54.00 AMPS
	CONNECTED LOAD	= 1434.00 AMPS

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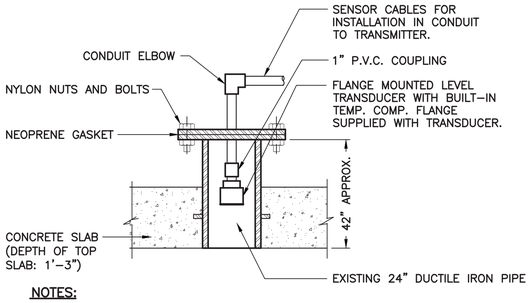
DONUT POND LOAD TABULATION AND PANELBOARD SCHEDULES

SW 2026-04

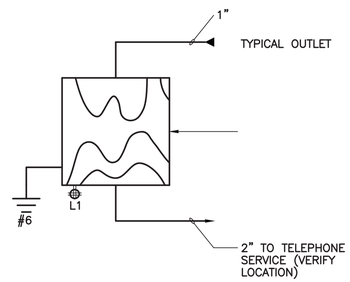


NOTES:

1. COMPONENTS DESIGNATED ARE SUPPLIED BY INSTRUMENT MANUFACTURER.
2. COAT FLOOR PIPE WITH UV PROTECTANT COATING SYSTEM PRIOR TO CONCRETE PLACEMENT. COORDINATE WITH OWNER FOR COLOR REQUIREMENT.
3. T/SLAB= 27.7 +/- (PER SURVEY)
4. MINIMUM EQUIPMENT EL PER TABLE 31.7

DONUT POND LEVEL ELEMENT INSTALLATION

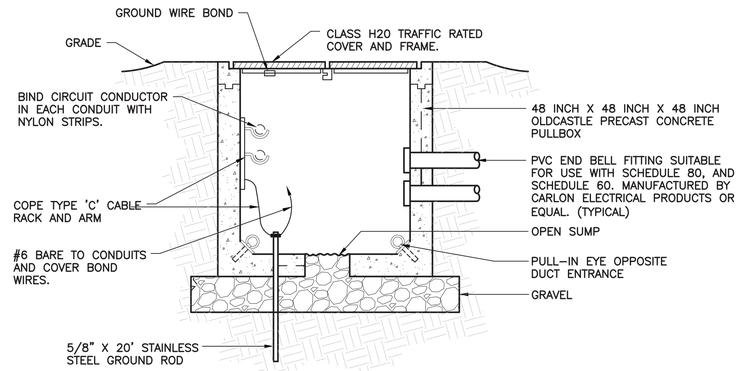
SCALE: NOT TO SCALE



5 / E-10

TELEPHONE RISER

N.T.S.

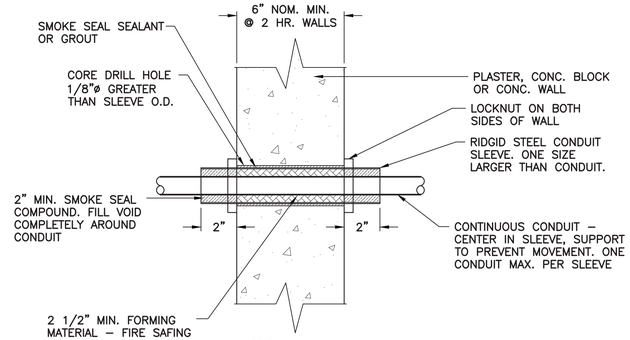


NOTES:

1. ALL WIRES IN PULL BOX TO BE LABELED INDICATING CIRCUIT NUMBERS. SEE SPECIFICATIONS.
2. DO NOT SPLICE CABLES IN PULL BOXES UNLESS OTHERWISE NOTED.
3. PATCH CONDUIT ENTRY WINDOW WITH CONCRETE.

HANDHOLE DETAIL

N.T.S.



NOTE: THIS DETAIL USED IN BOTH 1 HR. AND 2 HR. PARTITIONS.

CONDUIT SLEEVE DETAIL AT WALL

N.T.S.

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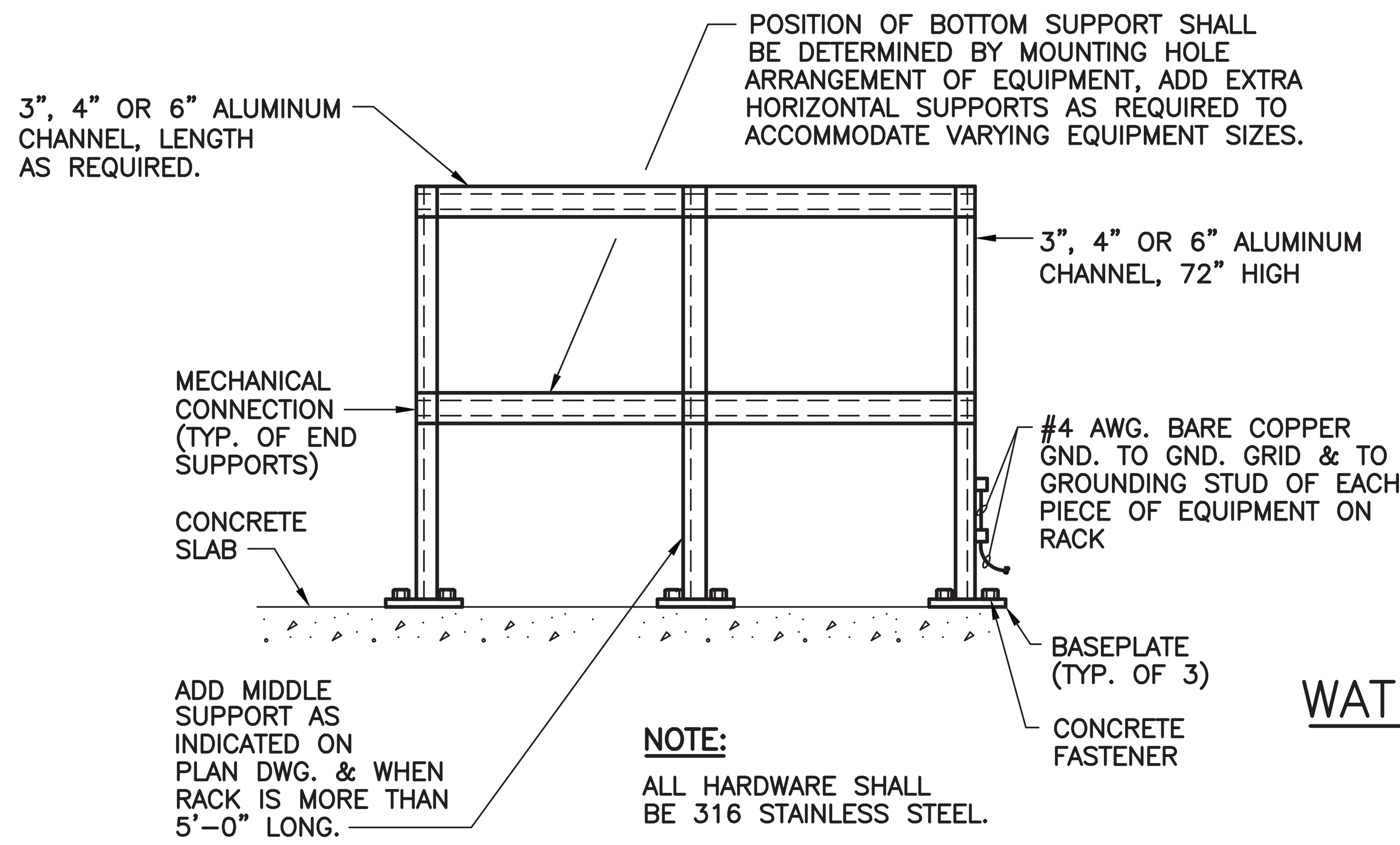
C.O.A. No. 8079
MICHAEL J. CAHILL, P.E.
Florida P.E. No. 70837

No.	DATE	REVISIONS	No.	DATE	REVISIONS			
1			4			DES: ST	ATLAS	CITY of TAMPA Mobility Department Stormwater Engineering Division
2			5			DRN: SRP		
3			6			CKD: MJC		
						DATE: 4/27/26		

ELECTRICAL DETAILS I

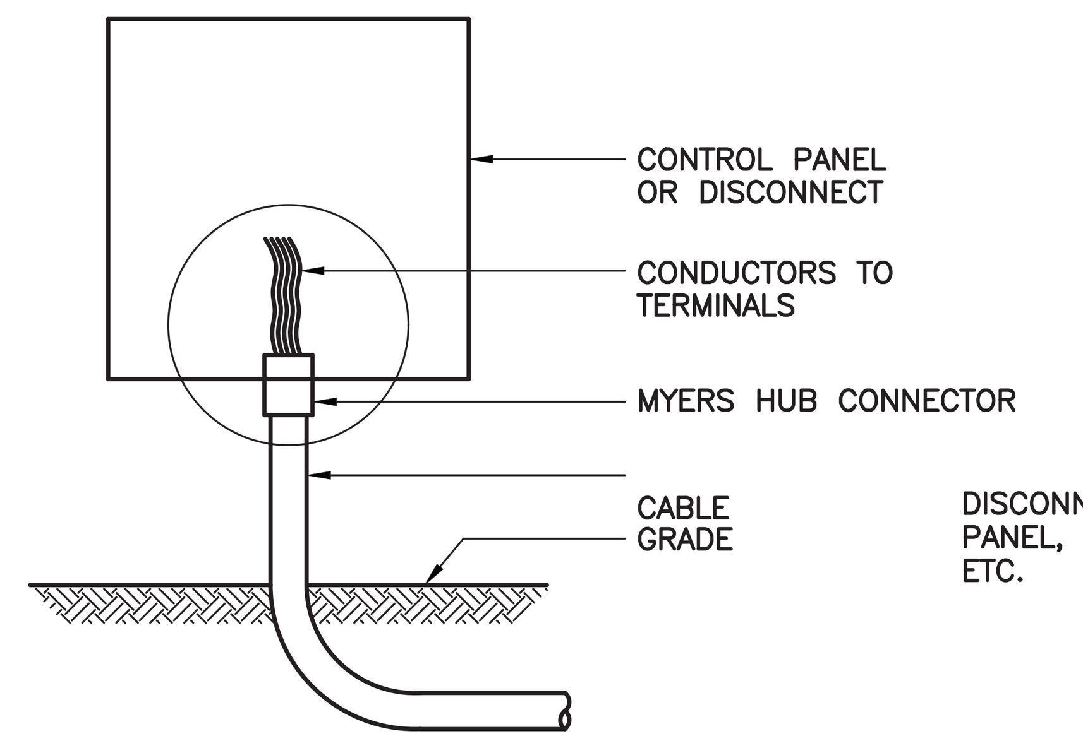
SHEET E8 OF 17

SW 2026-04

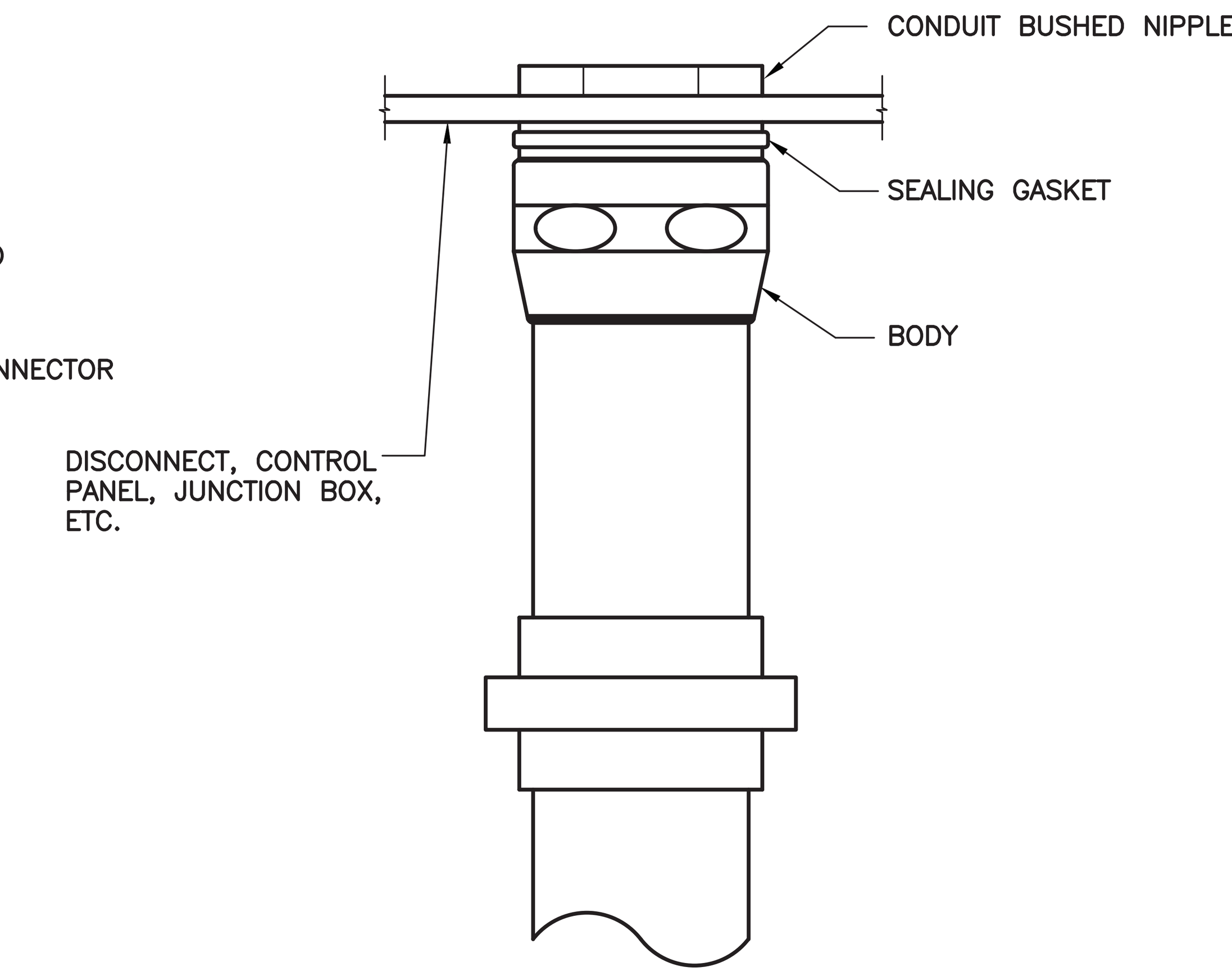


NOTE:
ALL HARDWARE SHALL BE 316 STAINLESS STEEL.

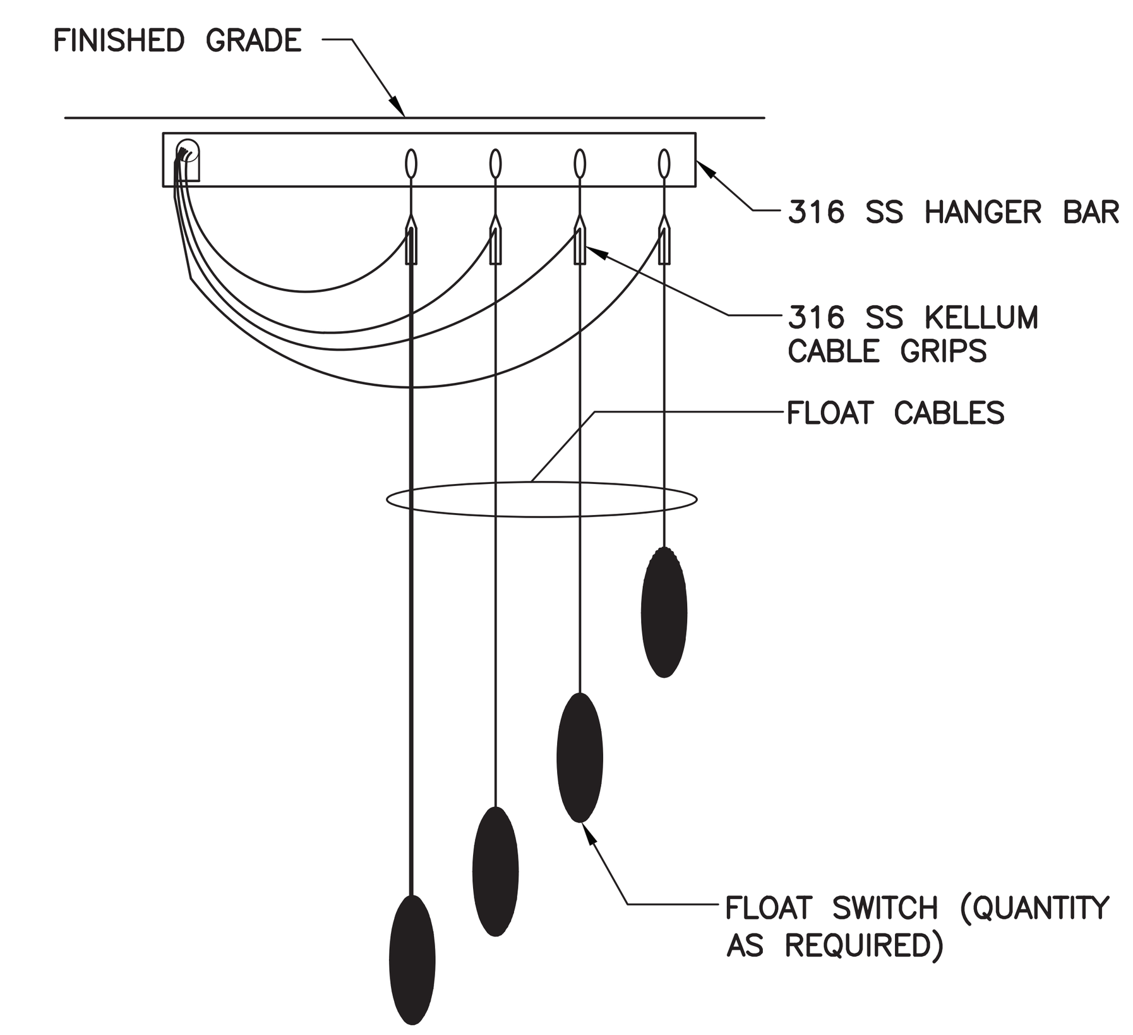
EQUIPMENT RACK DETAIL
N.T.S.



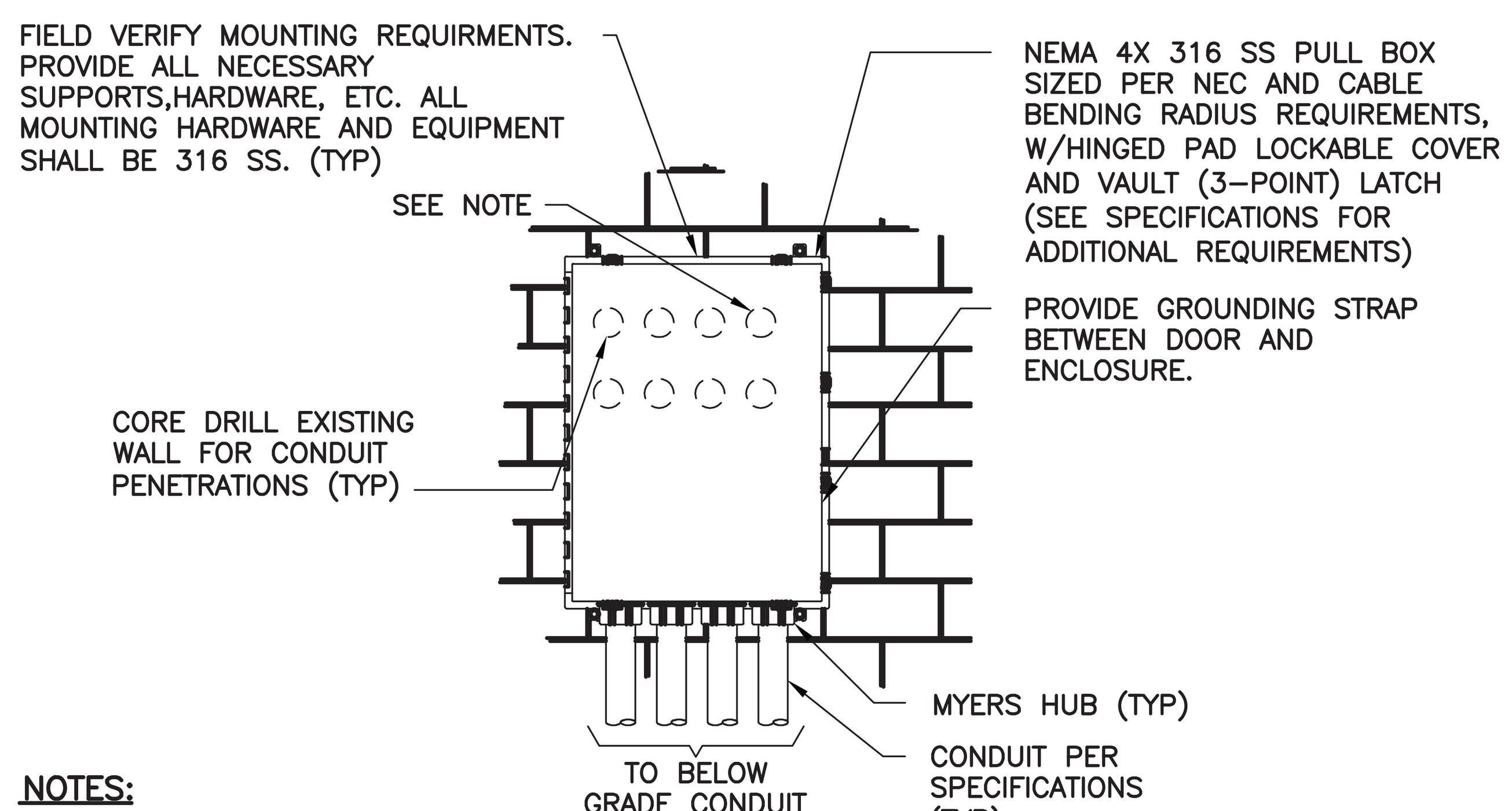
WATER TIGHT CONNECTION DETAIL
N.T.S.



CONDUIT HUB CONNECTION DETAIL
N.T.S.

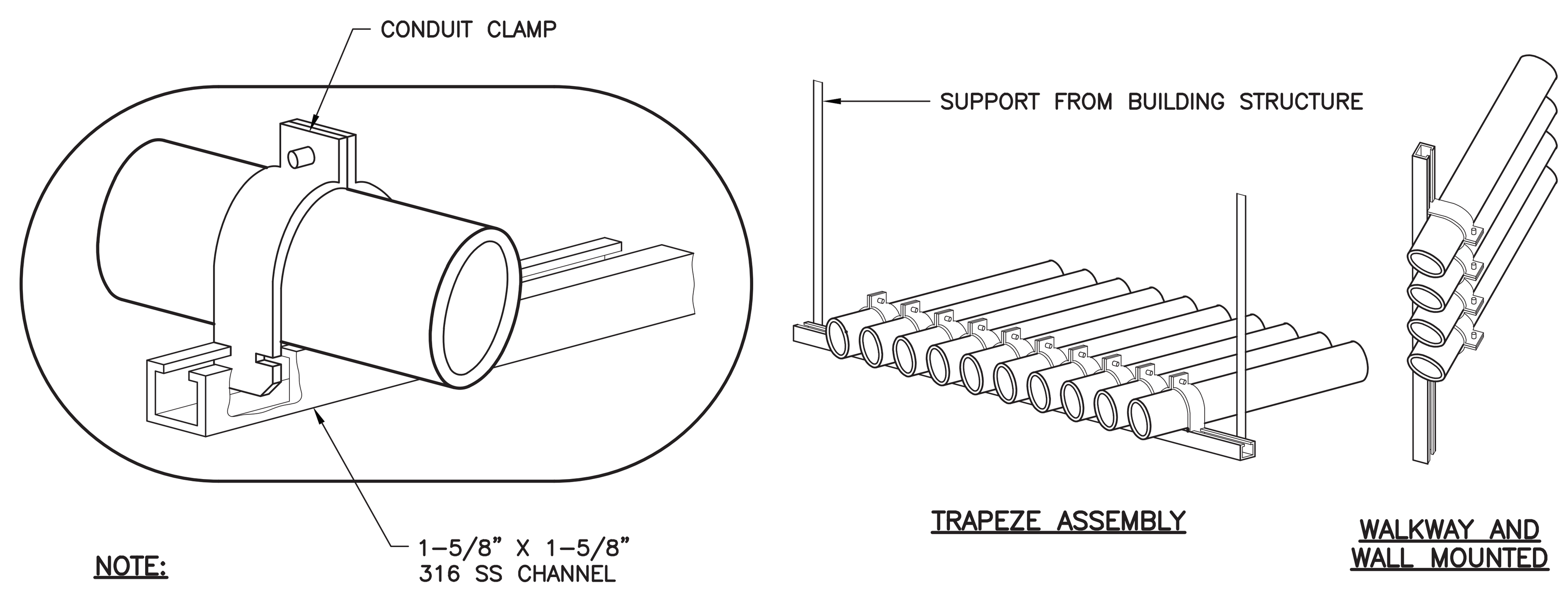


FLOAT SWITCH MOUNTING DETAIL
NOT TO SCALE



NOTES:
1. SPARE CONDUITS TO BE STUBBED 24" INSIDE BUILDING WALL AND CAPPED.

PULL BOX DETAIL
N.T.S.



NOTE:
ALL HARDWARE SHALL BE 316 STAINLESS STEEL. CLAMP MATERIAL TO MATCH ALUMINUM CONDUIT.

CONDUIT PIPE STRAP MOUNTING DETAILS
N.T.S.

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MICHAEL J. CAHILL, P.E.
Florida P.E. No. 70837

Plot Date: Tuesday, April 28, 2026

No.	DATE	REVISIONS	No.	DATE	REVISIONS	
1			4			DES: ST
2			5			DRN: SRP
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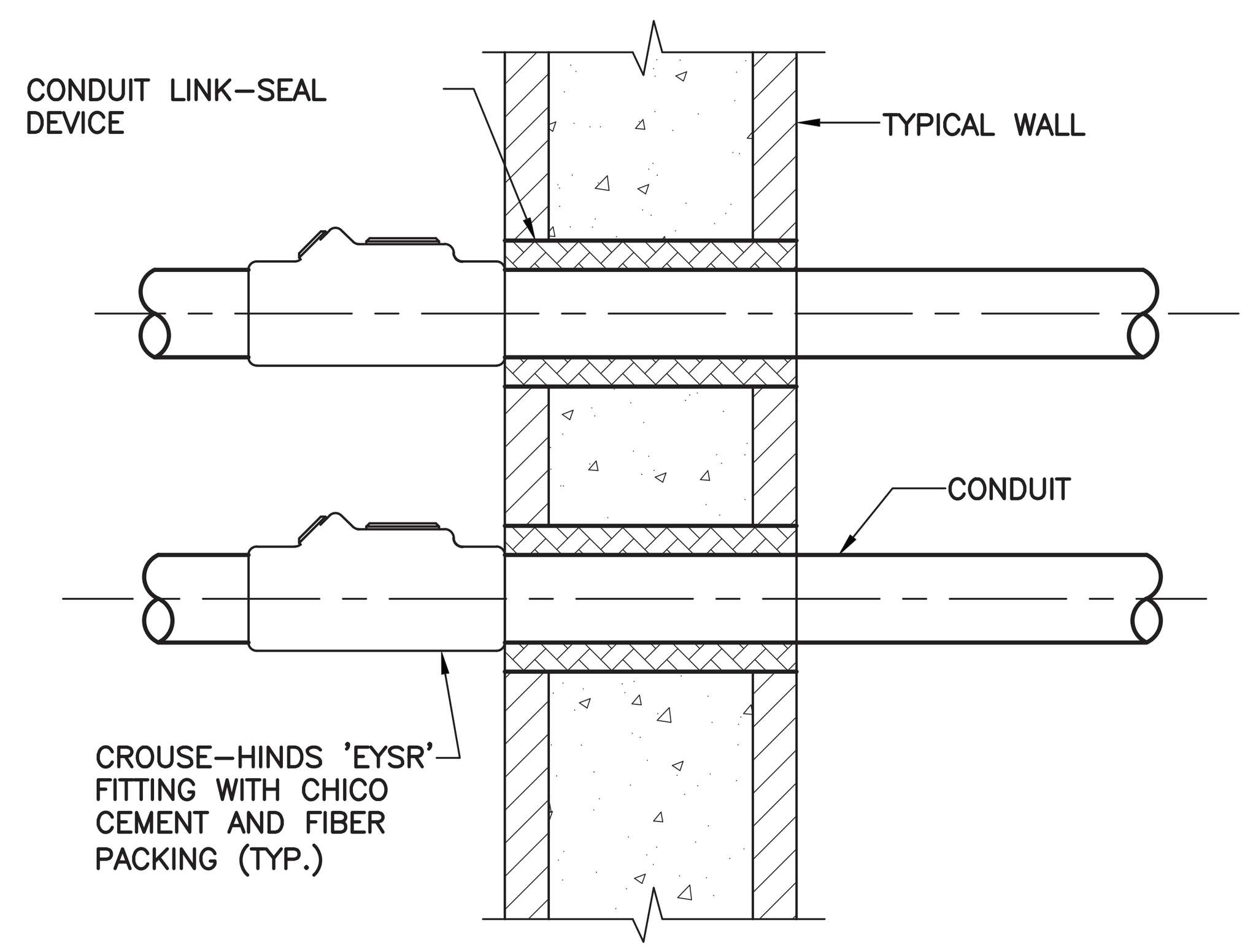
ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

ELECTRICAL DETAILS 2

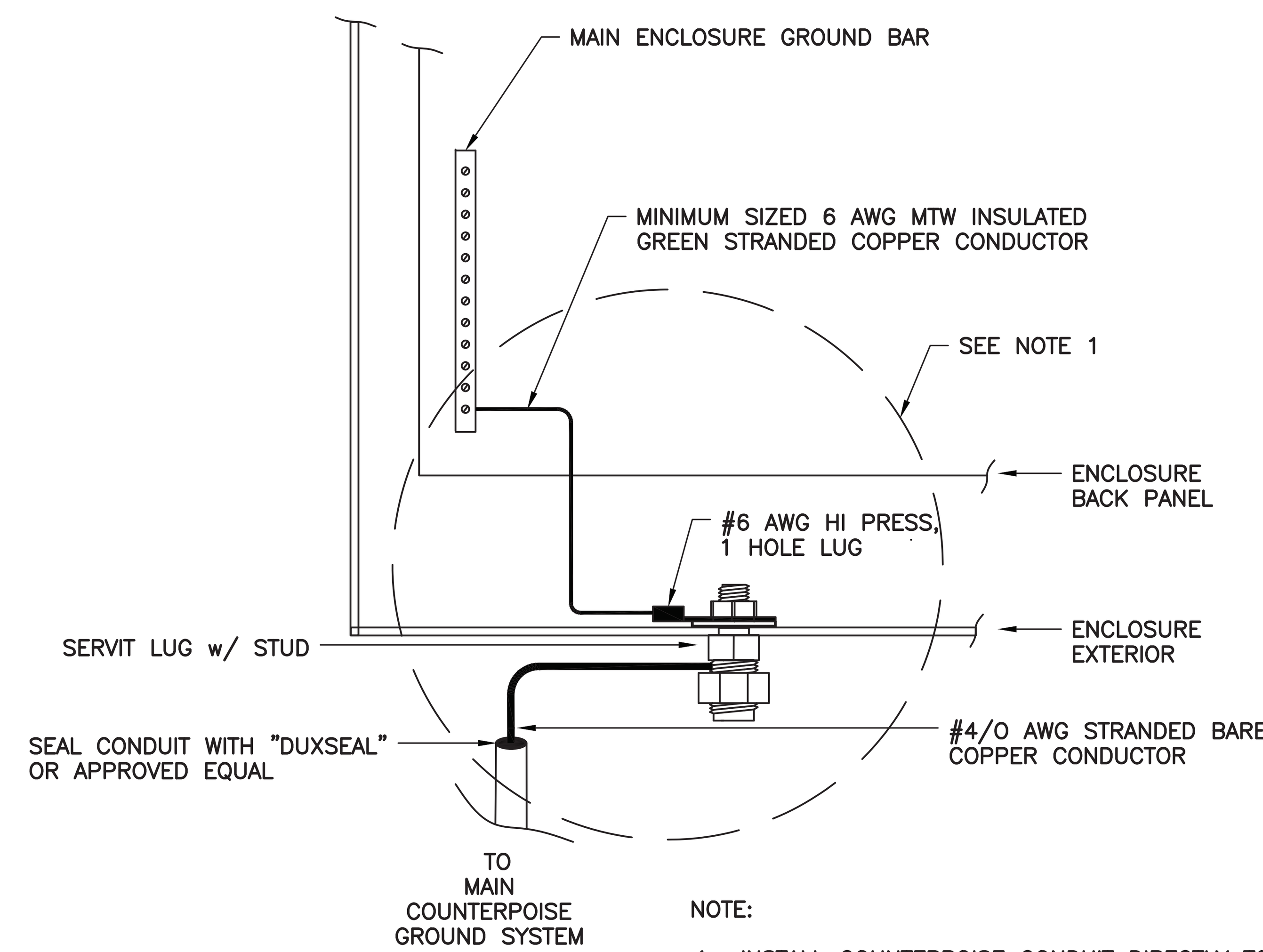
SHEET E9 OF 17

SW 2026-04



WALL PENETRATION DETAIL

N.T.S.



NOTE:

1. INSTALL COUNTERPOISE CONDUIT DIRECTLY TO BOTTOM OF ENCLOSURE IN APPROVED MATTER AND CONNECT COUNTERPOISE CONDUCTOR TO MANUFACTURER'S DESIGNATED GROUNDING BAR.

CONTROL, JUNCTION AND INSTRUMENT PEDESTAL ENCLOSURES GROUNDING DETAIL

NOT TO SCALE

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ATLAS

CITY of TAMPA
Mobility Department
Stormwater Engineering Division

ELECTRICAL DETAILS 3

SHEET E10 OF 17

SW 2026-04

GENERAL INSTRUMENT OR FUNCTION SYMBOLS

	DISCRETE INSTRUMENT – FIELD MOUNTED
	DISCRETE INSTRUMENT – PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR (1)
	DISCRETE INSTRUMENT – AUXILLARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR (1)
	INSTRUMENTS SHARING COMMON HOUSING
	INSTRUMENT FURNISHED WITH SPECIFIC FIELD COMPONENT (E.G. PUMP, NLOWER, VALVE, CONVEYOR, ETC.)
XXX	EXISTING EQUIPMENT
XXX	FUTURE EQUIPMENT
I	CONTROL INTERLOCK
A	TRIANGLE DENOTES WHETHER INPUT OR OUTPUT.
D	CONTROL SYSTEM I/O INTERFACE – DISCRETE SIGNAL. DIRECTION OF TRIANGLE DENOTES WHETHER INPUT OR OUTPUT.
	PNEUMATIC SIGNAL
	PNEUMATIC SIGNAL
	DIAPHRAGM SEAL
	EQUIPMENT FURNISHED BY CONTRACTOR OR EQUIPMENT SUPPLIER (NOT SYSTEM SUPPLIER)

PROCESS DEVICE SYMBOLS

	REDUCER OR ENLARGER
	PRIMARY ELEMENT VENTURI TUBE
M	PRIMARY ELEMENT MAGNETIC FLOWMETER
	PRIMARY ELEMENT ULTRASONIC DOPPLER FLOWMETER
	PRIMARY ELEMENT PARSCHALL FLUME
	PRIMARY ELEMENT ORIFICE PLATE
	PRIMARY ELEMENT WEIR FLOWMETER
	PRIMARY ELEMENT TURBINE OR PROPELLER TYPE METER
	PRIMARY ELEMENT PITOT TUBE
	PRIMARY ELEMENT ROTAMETER
	PRIMARY ELEMENT STRAP ON ULTRASONIC TRANSIT TIME METER
	PRIMARY ELEMENT STRAP ON ULTRASONIC DOPPLER METER
	PRIMARY ELEMENT ULTRASONIC FLOW OR LEVEL METER
	FLOAT SWITCH
	DRAIN
	CHEMICAL INJECTION POINT
	MIXER

PROCESS DEVICE SYMBOLS (CONTINUED)

	VALVE: GLOBE OR OTHER IN–LINE TYPE, UNLESS OTHERWISE INDICATED.
	BUTTERFLY VALVE
	CHECK VALVE WITH FLOW DIRECTION AS INDICATED
	PLUG VALVE
	BALL VALVE
REGULATED SIDE	PRESSURE REGULATING VALVE – SELF CONTAINED
	FLOW CONTROL GATE OR GATE VALVE
	CENTRIFUGAL BLOWER
	CENTRIFUGAL PUMP
M	SUBMERSIBLE PUMP
M	DIAPHRAGM PUMP & MOTOR
	DISC FLOW OR PROGRESSIVE CAVITY PUMP
	VERTICAL PUMP
M	MOTOR – MAY BE ELECTRIC, HYDRAULIC, OR PNEUMATIC. ARROW DENOTES VARIABLE SPEED.

FUNCTION SYMBOLS & ABBREVIATIONS

Σ	SUMMING
Σ/n	AVERAGING
△	SUBTRACTING
√‾	EXACT SQUARE ROOT
÷	DIVIDE
x	MULTIPLY
S	INTEGRATE
+	BIAS POSITIVE
–	BIAS NEGATIVE
f(X)	NONLINEAR OR UNSPECIFIED FUNCTION
>	HIGH SELECT
<	LOW SELECT
⟩	HIGH LIMIT
⟨	LOW LIMIT
/	SIGNAL TRANSDUCER OR CONVERTER (INPUT/OUTPUT) * DEFINED AS FOLLOWS:

E	VOLTAGE
H	HYDRAULIC
I	CURRENT
PD	PULSE DURATION
O	ELECTROMAGNETIC, SONIC
P	PNEUMATIC
PD	PULSE DURATION
R	RESISTANCE (ELECTRIC)

CHEMICAL ABBREVIATIONS:
(STANDARD CHEMICAL FORMULAS ARE USED)

HAND SWITCH ABBREVIATIONS:

A	AUTOMATIC
C	COMPUTER OR CLOSE
H	HAND
L	LOCAL
M	MODULATE

HAND SWITCH ABBREVIATIONS:

O	OFF OR OPEN
R	REMOTE
S	START OR STOP

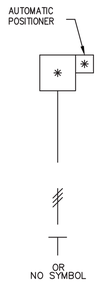
OTHER ABBREVIATIONS:

AI	ANALOG INPUT
AO	ANALOG OUTPUT
AS	AIR SUPPLY
COND	CONDUCTIVITY
CR	CHLORINE RESIDUAL
CTU	CENTRAL TELEMETRY UNIT
DCU	DISTRIBUTED CONTROL UNIT
DI	DIGITAL OR DISCRETE INPUT
DO	DISSOLVED OXYGEN OR DIGITAL OUTPUT
ES	ELECTRIC SUPPLY
FC	FAIL CLOSED
FLP	FAIL LAST POSITION
FO	FAIL OPEN
MC	MOTOR CONTROLLER
NC	NORMALLY CLOSED
pH	HYDROGEN ION CONCENTRATION
PLC	PROGRAMMABLE LOGIC CONTROLLER
POLM	POLYMER
RTU	REMOTE TERMINAL UNIT
TURB	TURBIDITY
VIB	VIBRATION
VSD	VARIABLE SPEED DRIVE
ZS	POSITION SWITCH
PIT	PRESSURE INDICATING TRANSMITTER
YS	EVENT SWITCH
TSH	TEMPERATURE SWITCH HIGH
LE	LEVEL ELEMENT
LSLL	LEVEL SWITCH LOW LOW
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH HIGH
SPD	SURGE PROTECTION DEVICE
LI	LEVEL INDICATOR

GENERAL NOTES

1. THIS IS A GENERAL LEGEND SHEET. SOME SYMBOLS & ABBREVIATIONS MAY NOT APPLY TO THIS SPECIFIC PROJECT.
2. THIS LEGEND APPLIES TO INSTRUMENTATION DIAGRAMS ONLY, & ITS SYMBOLS MAY NOT BE APPLICABLE TO NON–INSTRUMENTATION DRAWINGS.
3. THIS LEGEND SHEET & THE INSTRUMENTATION DIAGRAMS & I–DRAWINGS ARE GENERALLY BASED ON THE INSTRUMENT SOCIETY OF AMERICA'S STANDARDS FOR PRACTICES IN INSTRUMENTATION. SOME MODIFICATIONS, ADDITIONS, & ALTERATIONS MAY HAVE BEEN MADE TO ACCOMMODATE INDIVIDUAL PROJECT REQUIREMENTS.
4. SOME PROCESS ITEMS (SUCH AS EQUIPMENT ISOLATION VALVES, BYPASS LINES, ETC.) WHICH ARE NOT CRITICAL FOR AN UNDERSTANDING OF THE INSTRUMENTATION FUNCTIONS ARE NOT SHOWN ON THE INSTRUMENTATION SHEETS.
5. SEE ELECTRICAL SHEETS & SPECIFICATIONS FOR ADDITIONAL CONTROL & INTERLOCK REQUIREMENTS FOR EQUIPMENT NOT SHOWN OR NOT PROVIDED BY THE INSTRUMENTATION SUPPLIER.
6. SLANTED TEXT DENOTES EXISTING EQUIPMENT OR STRUCTURES. NON–SLANTED TEXT DENOTES NEW EQUIPMENT, STRUCTURES, & WORK. SLANTED TEXT (NOT SHADED) DENOTES FUTURE EQUIPMENT STRUCTURES & WORK.

VALVE ACTUATOR SYMBOLS



VALVE OR GATE ACTUATOR WITH * DEFINED AS FOLLOWS:

P:	AIR CYLINDER
S:	SOLENOID
P/O:	AIR/OIL CYLINDER
E:	ELECTRIC MOTOR
H:	HYDRAULIC CYLINDER
EH:	ELECTROHYDRAULIC
Z:	MISCELLANEOUS

FOR PRESSURE RELIEF OR SAFETY VALVES ONLY

MANUALLY (HAND) OPERATED

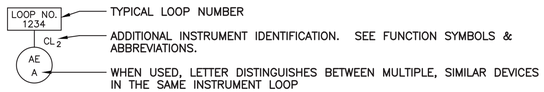
INSTRUMENTATION IDENTIFICATION LETTERS

	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		EMERGENCY	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE		CLEANER	CONTROL	
D	DENSITY (MASS) OR SPECIFIC GRAVITY	DIFFERENTIAL			
E	VOLTAGE (EMF)		PRIMARY ELEMENT		
F	FLOW RATE	RATIO (FRACTION)			
G	GAUGING (DIMENSIONAL)		GLASS		
H	HAND (MANUALLY INITIATED)				HIGH OR OPEN
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME OR TIME SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW OR CLOSED
M	USER'S CHOICE	MOMENTARY			MIDDLE OR INTERMEDIATE
N	USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE (RESTRICTION)		
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)		
Q	QUANTITY	INTEGRATE OR TOTALIZE			
R	RUN		RECORD		
S	SPEED OR FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VISCOSITY, VIBRATION			VALVE, DAMPER, OR LOUVER	
W	WEIGHT OR TORQUE		WELL		
X	FAILURE	X AXIS			
Y	EVENT, STATE, OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION	Z AXIS		DRIVE, ACTUATE, OR UNCLASSIFIED CONTROL ELEMENT	

NOTES:

(1) REFER TO SINGLE LINE DIAGRAM FOR CONDUIT AND WIRE REQUIREMENTS.

TAG NUMBER & DESIGNATION EXAMPLE



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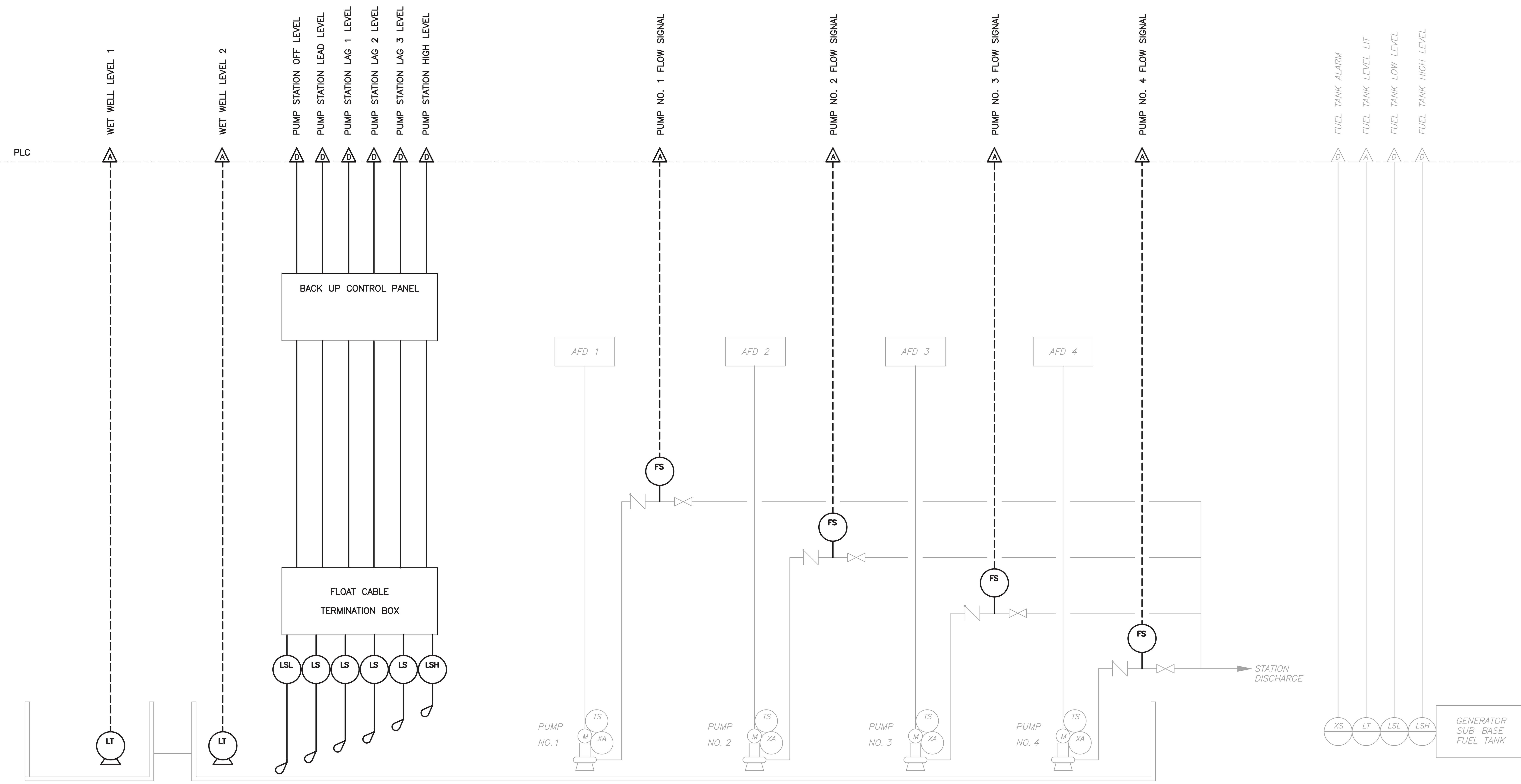
INSTRUMENTATION NOTES, LEGEND & ABBREVIATION

SHEET 11 OF 17



PROCESS MONITORING AND CONTROL

SCALE: N.T.S.

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