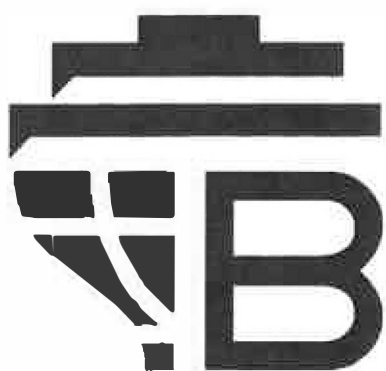
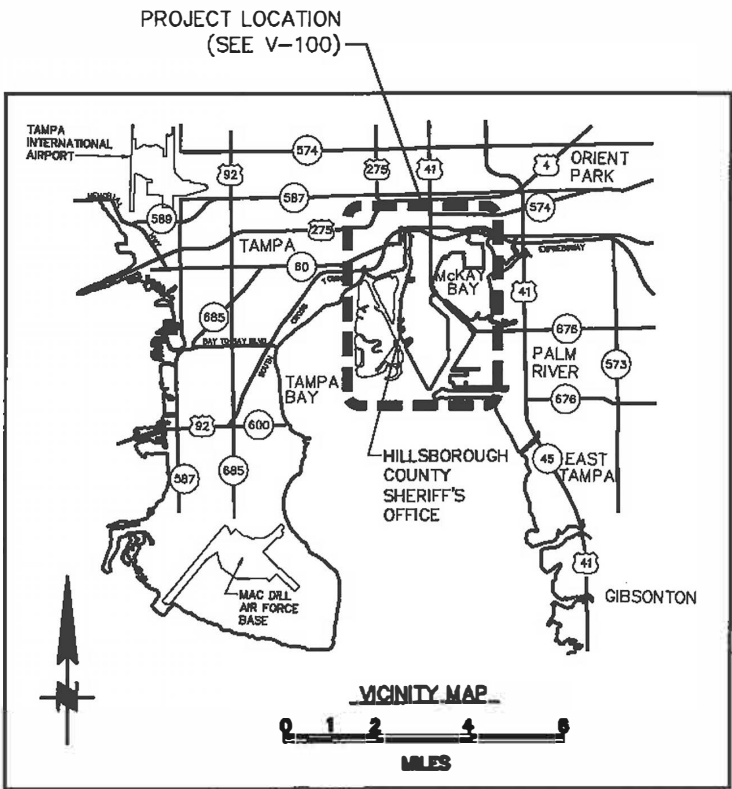


PORT TAMPA BAY HILLSBOROUGH COUNTY SHERIFF'S OFFICE MARINE COMMAND CENTER RELOCATION



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PORT TAMPA BAY

PTB PROJECT NO. 3810-02
PTB DRAWING NO. 3810-0201

PORT TAMPA BAY BOARD OF COMMISSIONERS

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PATRICK BLAIR

PRESIDENT & CHIEF EXECUTIVE OFFICER
VICE PRESIDENT OF ENGINEERING & FACILITIES
PROJECT MANAGER

PHASE 1
21 APRIL 2014

MOFFATT & NICHOL

1509 W. SWANN AVENUE, SUITE 225
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AURORA
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ABBREVIATIONS

A AIR, AMPERE, ANCHOR OR AMMETER
A/C AIR CONDITIONING
AB ANCHOR BOLT
ABAND ABANDONED
ABBR ABBREVIATION
ABV ABOVE
AC ASPHALT CONCRETE, AIR COMPRESSOR, OR ALTERNATING CURRENT
AFG ABOVE FINISHED GRADE
AGG AGGREGATE
ALUM ALUMINUM
AMPS AMPERES
APPROX APPROXIMATE
AREMA AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION
AS AMPERE SWITCH
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATON AID-TO-NAVIGATION
AWG AMERICAN WIRE GAUGE
AWPA AMERICAN WOOD PRESERVERS ASSOCIATION
AWS AMERICAN WELDING SOCIETY
AWWA AMERICAN WATER WORKS ASSOCIATION
BAV BALL VALVE
BC BEGIN CURVE OR BARE COPPER/CONDUCTOR
BD BOARD
BF BLIND FLANGE
BFP BACK-FLOW PREVENTER
BFV BUTTERFLY VALVE
BLDG BUILDING
BLK'G BLOCKING
BLKOUT BLOCKOUT
BOC BOTTOM OF CONCRETE
BOS BOTTOM OF STEEL
BOT BOTTOM
BOTT BOTTOM
BR BRASS
BRKR BREAKER
BTU BRITISH THERMAL UNIT
BW BUTT WELD
C CONDUIT OR CONTROL
CA CEMENT ASBESTOS OR COMPRESSED AIR
CB CONTAINER BERTH, CATCH BASIN OR CIRCUIT BREAKER
CCA CHROMATED COPPER ARSENATE
CF CUBIC FEET
CH COMMUNICATION HANDHOLE
CHK CHECKERED
CI CAST IRON
CJ CONSTRUCTION JOINT
CKT CIRCUIT
CL CLASS
CL&C CEMENT LINED AND COATED
CLF CHAIN LINK FENCE
CL'G CEILING
CLR CLEAR
CM CORRUGATED METAL
CMP CORRUGATED METAL PIPE
CMU CONCRETE MASONRY UNIT
CN CANADIAN NATIONAL RAILWAY
CO CLEANOUT OR CONDUIT ONLY
COL COLUMN
CON CONCRETE
CONC CONCRETE
COND CONDUIT
CONN CONNECTION
CONST CONSTRUCT OR CONSTRUCTION
CONT CONTINUOUS OR CONTINUE
COORD COORDINATE
CORR CORRUGATED
CP CONCRETE PIER
CS CARBON STEEL
CT COPPER TUBE, CERAMIC TILE, OR CURRENT TRANSFORMER
CTR CENTER
CTS CENTERS
CU CUBIC OR COPPER
CV CHECK VALVE
CW COLD WATER
C/W COMPLETE WITH
CY CUBIC YARDS
D DRAIN OR DEPTH
DBL DOUBLE
DBW DOUBLE STRAND BARBED WIRE

DET DETAIL
DFT DRY FILM THICKNESS
DI DUCTILE IRON OR DROP INLET
DIA DIAMETER
DIM DIMENSION
DIP DUCTILE IRON PIPE
DISCONT DISCONTINUOUS
DM DESIGN MANUAL
DN DOWN
DO DITTO
DR DOOR
DWGS DRAWINGS
DWT DEADWEIGHT TONS
E EAST
EA EACH
EC END CURVE OR EMPTY CONDUIT
EC ELECTRICAL CONTRACTOR
EF EACH FACE
EG EXISTING GRADE
EH ELECTRICAL HANDHOLE
EJ EXPANSION JOINT
EL ELEVATION
ELB ELBOW
ELEC ELECTRICAL
ELEV ELEVATION
ELL ELBOW
EMT ELECTRICAL METALLIC CONDUIT
EOP EDGE OF PAVEMENT
EPR ETHYLENE-PROPYLENE-RUBBER
EQ EQUAL
EQUIP EQUIPMENT
ERCP ELLIPTICAL REINFORCED CONCRETE PIPE
ES EACH SIDE
EW EACH WAY OR EXISTING WATER
EXIST EXISTING
EXP EXPANSION
EXT EXTERIOR
F FRAME, FLANGE, OR FUEL
FA FIRE ALARM
FD FLOOR DRAIN
FDC FIRE DEPARTMENT CONNECTION
FDN FOUNDATION
FDR FEEDER
FFE FINISHED FLOOR ELEVATION
FG FINISH GRADE
FH FIRE HYDRANT
FIN FINISH
FL FLOW LINE OR FLASH
FLG FLANGE
FLR FLOOR
FLUOR FLUORESCENT
FOT FLAT ON TOP
FR FUEL RETURN
FS FINISHED SURFACE OR FUEL SUPPLY
FT FOOT OR FEET
FTG FOOTING
FU FUSE
FVNR FORWARD NON REVERSING (MOTOR)
G GROUND
GA GAUGE OR GENERAL ARRANGEMENT
GAL GALLON
GALV GALVANIZED
GB GRADE BREAK
GF GROUND FAULT
GFI GROUND FAULT INTERRUPTER
GI GALVANIZED IRON
GL GLASS
GND GROUND
GPM GALLONS PER MINUTE
GRND GROUND
GV GATE VALVE
GW GROSS WEIGHT
GYP GYPSUM
H HEIGHT
HB HOSE BIBB
HD HEAD
HDG HOT DIPPED GALVANIZED
HDPE HIGH DENSITY POLYETHYLENE
HK HOOK
HM HOLLOW METAL
HN'DRL HANDRAIL
HORIZ HORIZONTAL
HP HORSEPOWER
HPS HIGH PRESSURE SODIUM
HR HOUR

HS HEADED STUD / HIGH STRENGTH
HSS HOLLOW STRUCTURAL SECTION
HTR HEATER
HW HOT WATER
Hz HERTZ
ID INSIDE DIAMETER
IN. INCHES
INFO INFORMATION
INS INSULATION
INT INTERIOR
INV INVERT ELEVATION
IPS INSIDE PIPE SIZE
JB JUNCTION BOX
JT JOINT
KSI KIPS PER SQUARE INCH
KV KILOVOLTS
kVA KILOVOLT-AMPERES
kW KILOWATTS
kWHM KILOWATT HOUR METER
L LIGHT OR ANGLE
LA LIGHTNING ARRESTER
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
LAM LAMINATE
LB POUND
LF LINEAR FOOT OR FEET
LG LONG
LH LEFT HAND
LOA LENGTH OVERALL
LR LONG RADIUS
LRFD LOAD & RESISTANCE FACTOR DESIGN
LT LIGHT, LONG TON OR LEFT
LTG LIGHTING
M MOTOR
MAS MASONRY
MATL MATERIAL
MAX MAXIMUM
MCC MOTOR CONTROL CENTER
MCM THOUSAND CIRCULAR MILS
MECH MECHANICAL
MET METAL
MFTR MANUFACTURE
MH MANHOLE
MHHW MEAN HIGHER HIGH WATER
MHW MEAN HIGH WATER
MIL 100TH OF AN INCH
MIN MINIMUM
MJ MECHANICAL JOINT
MLLW MEAN LOWER LOW WATER
MLW MEAN LOW WATER
MON MONUMENT
MPCB MOTOR PROTECTION CIRCUIT BREAKER
MPH MILES PER HOUR
MSL MEAN SEA LEVEL
MTD MOUNTED
MUTCD MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N NORTH
NAD NORTH AMERICAN DATUM
NAVD NORTH AMERICAN VERTICAL DATUM
NEC NATIONAL ELECTRICAL CODE
NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NGVD NATIONAL GEODETIC VERTICAL DATUM
NIC NOT IN CONTRACT
NO. NUMBER
NOM NOMINAL
NOS NATIONAL OCEAN SERVICE
NPT NATIONAL PIPE THREAD
NSF NATIONAL SANITATION FOUNDATION
NTS NOT TO SCALE
OBS OBSTRUCTION
OC ON CENTER
OD OUTSIDE DIAMETER
OE OVERHEAD ELECTRICAL
OH OVERHEAD
OHE OVERHEAD ELECTRICAL
OHW OVERHEAD WIRE
OP'NG OPENING
OPP OPPOSITE
OPRS OPERATORS
OS OUTSIDE
OSHA OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION

OTM OTHER TRACK MATERIAL
OUTBD OUTBOARD
OW OILY WASTE
P POWER, POLE, PUMP OR PIPE
P&T PRESSURE AND TEMPERATURE
P/S PRESTRESSED
PARTN PARTITION
PB PULL BOX
PC PIPE CLAMP, PRECAST CONCRETE OR POINT OF CURVATURE
PCC POINT OF CONTINUING CURVATURE
PCF POUND PER CUBIC FOOT
PD PROJECT DATUM
PERF PERFORATED
PF POWER FACTOR
PG PRESSURE GAUGE
PI POINT OF INTERSECTION
PL PLATE
PLAS PLASTIC OR PLASTER
PLATF PLATFORM
PM POWER MOUND
PNL PANEL
PO PUSH-ON
POB POINT OF BEGINNING
POC POINT OF CONNECTION OR POINT ON CURVE
POE POINT OF ENDING
POT POINT ON TANGENT
PP POWER POLE
PR PROFILE
PRC POINT OF REVERSE CURVE
PRESS PRESSURE
PRI PRIMARY
PRV PRESSURE REDUCING VALVE
PS PIPE SUPPORT, PRESSURE SWITCH OR POINT OF SWITCH
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PSIG POUNDS PER SQUARE INCH GAUGE
PT POINT OR POINT OF TANGENT
PTB PORT TAMPA BAY
PTD PAINTED
PV PLUG VALVE
PVC POLYVINYL CHLORIDE (CONDUIT)
PWT PAVEMENT
PW POTABLE WATER
PWR POWER
QTY QUANTITY
R RADIUS OR RIGID
RAD RADIUS
RCP REINFORCED CONCRETE PIPE
RD ROOF DRAIN
RECEPT RECEPTACLE
REDUCER REDUCER
REINF REINFORCEMENT
REQ'D REQUIRED
RET RETAINING
RF RAISED FACE
RGS RIGID GALVANIZED STEEL CONDUIT
RH RIGHT HAND
RM ROOM
ROW RIGHT-OF-WAY
RP RADIUS CENTER POINT
RPM REVOLUTIONS PER MINUTE
RT RIGHT
RUB RUBBER
RV RELIEF VALVE
RW RIGHT OF WAY
RWGV RESILIENT WEDGE GATE VALVE
RWL RAIN WATER LEADER
S SEWER, SLOPE, SOUTH OR SWITCH
SAN SANITARY
SB SWAY BRACE
SCH SCHEDULE
SCHD SCHEDULE
SD STORM DRAIN
SDR STANDARD DIMENSION RATIO
SEC SECONDARY
SECT SECTION
SF SQUARE FEET
SHLD SHOULDER
SHT SHEET
SIM SIMILAR
SLO SHORT LEG OUTSTANDING
SP SPARE
SPA SPACES

SPEC SPECIAL
SPECS SPECIFICATIONS
SPIB SOUTHERN PINE INSPECTION BUREAU
SQ SQUARE
SS STAINLESS STEEL OR SANITARY SEWER
ST SHORT TON
STA STATION
STD STANDARD
STL STEEL
STRUCT STRUCTURE, STRUCTURAL
SUBSTA SUBSTATION
SWBD SWITCHBOARD
SWM STORM WATER MANAGEMENT
SYM SYMMETRICAL
T TON, TELEPHONE, OR TRANSFORMER
T&B TOP AND BOTTOM
T/M THERMAL MAGNETIC CIRCUIT BREAKER
T/R TOP OF RAIL
TBM TEMPORARY BENCHMARK
TBR TO BE REMOVED
TC TOP OF CURB
TD TOP OF DITCH
TECO TAMPA ELECTRIC COMPANY
TEL TELEPHONE
TELE TELEPHONE
TEMP TEMPORARY OR TEMPERATURE
TESC TEMP. EROSION AND SEDIMENT CONTROL
THD THREAD
THK THICK
TLM TELEMETRY
TLT TOILET
TO TOP OF
TOC TOP OF CONCRETE
TOS TOP OF STEEL
TRANSV TRANSVERSE
TRNSFM TRANSFORMER
TV TELEVISION
TYP TYPICAL
UE UNDERGROUND ELECTRIC
UG UNDERGROUND
UHMW PE ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
UL UNDERWRITERS LABORATORY
UON UNLESS OTHERWISE NOTED
UTIL UTILITY
UUL UNKNOWN UNDERGROUND LINE
V VOLT, VENT OR VOLTMETER
VA VOLT-AMPERES
VERT VERTICAL
VS VOLTMETER SWITCH
VTR VENT THRU ROOF
W WATER, WEST, WIDE, WIRE OR WATT
W/ WITH
W/O WITHOUT
WD WOOD / WIDE
WN WELD NECK
WP WEATHERPROOF, WATERPROOF, OR WORK POINT
WT WEIGHT / WALL THICKNESS
WVF WELDED WIRE FABRIC
XFMR TRANSFORMER
& AND
/ ANGLE
* ASTERISK
@ AT
_ BASELINE
~ CENTERLINE
° DEGREES
' DIAMETER OR PHASE
" MINUTES OR FEET
NUMBER OR POUNDS
% PERCENT
R PROPERTY LINE OR PLATE
" SECONDS OR INCH
" SQUARE

HILLSBOROUGH COUNTY SHERIFF'S OFFICE

ABBREVIATIONS



PORT TAMPA BAY



SEAL

monart & nichol
DRAWN: ARS
DATE: 2014.2.14
CHECKED: MAP
DATE: 2014.2.14
APPROVED: MAP
DATE: 2014.2.14
PTB PROJECT NO.: 3010-02
SCALE: AS SHOWN
PTB DRWG NO.: 3010-0202
SHEET NO.: G-002
Sheet 2 of 28

1101 CHANNELSIDE DRIVE TAMPA, FL 33602 TELEPHONE: 813-905-7678

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GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE DRAWINGS, PROJECT SPECIFICATIONS, PROJECT NOTES AND FDOT STANDARD SPECIFICATIONS WHEN REFERENCED. FDOT STANDARD SPECIFICATIONS ARE REFERENCED FOR MATERIAL SPECIFICATIONS AND CONSTRUCTION METHODS UNDER DIVISION II "CONSTRUCTION DETAILS". DIVISION I "GENERAL REQUIREMENTS AND COVENANTS" OF THE FDOT STANDARD SPECIFICATIONS DOES NOT APPLY. THE CONTRACT WITH THE OWNER SHALL GOVERN OVER FDOT SPECIFICATIONS. MEANS OF MEASUREMENT AND PAYMENT SHALL BE AS STIPULATED BY THE OWNER AND THE CONTRACT. FDOT STANDARD SPECIFICATIONS REFER TO THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR ROADWAY AND BRIDGE CONSTRUCTION", 2013 EDITION AND ALL SUPPLEMENTAL SPECIFICATIONS.
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THESE DRAWINGS, PROJECT SPECIFICATIONS AND WITH ALL CURRENT APPLICABLE CODES AND THE LATEST REVISIONS OF THE FOLLOWING REFERENCE DOCUMENTS:
 - FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROAD & BRIDGE SPECIFICATIONS.
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
 - CITY OF TAMPA WATER DEPARTMENT
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE PLANS AND OF THE SPECIFICATIONS.
- SITE VERIFICATION: PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL CHECK THE DRAWINGS AGAINST THE SITE LOCATIONS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES IN DIMENSIONS OR SITE CONDITIONS. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED.
- METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL, ON A DAILY BASIS, REMOVE FROM THE SITE ANY EXCAVATED MATERIAL OR DEBRIS. DISPOSAL OF THE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DEBRIS SHALL BE DISPOSED OF IN A PERMITTED SANITARY LANDFILL.
- THE CONTRACTOR SHALL PLACE CONSTRUCTION DEBRIS CONTROL DEVICES, BOOMS, TARPULINS, FLOATS, STAGING, AND OTHER DEVICES AS NECESSARY TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE WATER AND AIR BORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA OR IN THE WATER. SEE PERMIT CONDITIONS.
- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS, AND REGULATIONS.
- THE CONTRACTOR SHALL CONDUCT OPERATIONS SO AS TO NOT INTERFERE WITH OR BE DETRIMENTAL TO VESSEL AND VEHICULAR TRAFFIC DURING THE COURSE OF THE WORK.
- CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCING WITH DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS WITH EXISTING UTILITIES PRIOR TO COMMENCING WITH WORK IN THE CONFLICT AREA.
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID FOR THE PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE PORT ENGINEER TO GAIN ACCESS TO THE SITE THROUGH SECURITY OPERATIONS.
- CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY AND DRAWINGS OF COMPLETED WORK TO THE ENGINEER.
- THE CONTRACTOR SHALL ENDEAVOR TO PROTECT AND MAINTAIN ACCESS TO PRIVATE PROPERTY ADJACENT PORT TENANTS. ANY DAMAGE CAUSED BY THE CONTRACTOR DURING WORK SHALL BE CORRECTED TO THE SATISFACTION OF THE PORT ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE PORT ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL PERMIT CONDITIONS AND REPORTING REQUIREMENTS.
- THE ACCURACY OF EXISTING UTILITIES, BULKHEADS, PIERS, BUILDINGS, AND OTHER STRUCTURES SHOWN ON PLANS ARE NOT GUARANTEED. ACTUAL FIELD CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF MATERIALS, ORDERING MATERIALS, OR PERFORMING WORK. LOCATIONS OF EXISTING UTILITY DISTRIBUTIONS SHOWN WERE PROVIDED BY THE TAMPA PORT AUTHORITY.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO ORIGINAL CONDITION TO MATCH ADJACENT GRADES AND SHALL REPLACE ANY DISTURBED PAVED OR GRASSED AREAS IN KIND.
- ALL EXCAVATION, TRENCHING, SHEETING, SHORING AND BRACING SHALL BE INSTALLED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING O.S.H.A.
- NO SALVAGE VALUE IS EXPRESSED OR IMPLIED BY THESE CONTRACT DOCUMENTS FOR THE ITEMS TO BE REMOVED OR DEMOLISHED.

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY, SECURITY AND PROTECTION OF PERSONNEL, EQUIPMENT, CONSTRUCTION, AND ADJACENT FACILITIES FOR THE DURATION OF THIS CONTRACT. THE CONTRACTOR AND HIS SUBCONSULTANTS SHALL PREPARE AND CONFORM TO A PROJECT SPECIFIC HEALTH AND SAFETY PLAN. THE HEALTH AND SAFETY PLAN SHALL INCLUDE APPLICABLE GUIDELINES AND REGULATIONS SET FORTH IN CURRENT O.S.H.A. AND FLORIDA STATUTES WITH SPECIFIC ATTENTION TO FLORIDA TRENCH SAFETY ACT AND O.S.H.A.'S TRENCH EXCAVATION SAFETY STANDARDS. THE ENGINEER OF RECORD AND THE TAMPA PORT AUTHORITY WILL NOT BE RESPONSIBLE FOR JOB SITE SAFETY PROCEDURES.
- ALL TEMPORARY UTILITIES NECESSARY FOR CONSTRUCTION SHALL BE PROVIDED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN UNINTERRUPTED UTILITY SERVICE TO PORT TENANTS WHOSE UTILITIES MIGHT OTHERWISE BE IMPACTED BY THE CONTRACTOR'S WORK ON THIS PROJECT. CONTRACTOR SHALL COORDINATE ALL UTILITY OUTAGES SUFFICIENTLY IN ADVANCE THROUGH THE PORT ENGINEER, SO AS NOT TO DISRUPT THE OPERATIONS OF THE PORT OR ITS TENANTS.
- THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIERS (HAY BALES, SILTATION CURTAINS AND FLOATING TURBIDITY SCREENS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, AND WATERWAYS. IF, IN THE OPINION OF THE PORT ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE BEING TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH FROM TRAVELWAYS TO THE SATISFACTION OF THE PORT ENGINEER AND/OR LOCAL AUTHORITIES.
- CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA TO OBTAIN LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO PERFORMING EXCAVATIONS. ALSO CONTACT THE PORT MAINTENANCE SUPERVISOR, FOR LOCATIONS OF PORT UTILITIES.

DEMOLITION NOTES

- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE DEMOLITION WITHIN THE LIMITS OF THE REQUIRED CONSTRUCTION AND AVOID ANY DAMAGE TO THE EXISTING STRUCTURE. PLAN SHALL INCLUDED DETAILED MEANS AND METHOD OF DEMOLITION WORK.
- PRIOR TO GENERAL DEMOLITION, THE CONTRACTOR SHALL SAWCUT WHERE NOTED OR OTHERWISE PROVIDE A SMOOTH, CLEAN, PARALLEL FULL DEPTH BREAK FROM ALL CONNECTING LINKS TO THE REMAINING STRUCTURE.
- ANY DAMAGE INCURRED IN EXECUTION OF THIS CONTRACT TO ANY PART OF THE PROPERTY/STRUCTURE NOT SPECIFICALLY DESIGNATED FOR DEMOLITION SHALL BE REPAIRED, REPLACED, AND/OR RECONSTRUCTED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION AS DIRECTED BY THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR
- ALL DEMOLISHED MATERIAL, EXCEPT AS NOTED OTHERWISE, BECOMES THE PROPERTY OF, AND SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE REMOVAL, HANDLING, AND DISPOSAL OF ALL DEMOLITION MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE MATERIALS TO BE DISPOSED OF AND ALL GOVERNING AGENCY REQUIREMENTS.
- ALL REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES SHALL BE COORDINATED WITH THE ENGINEER & PORT ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE UTILITY COMPANIES AND PORT ENGINEER TO DISCONNECT EXISTING SERVICES TO THE BUILDINGS PRIOR TO ANY ACTIVITY.
- THE CONTRACTOR IS RESPONSIBLE TO CONTROL FUGITIVE DUST ORIGINATING FROM THE PROJECT SITE DURING CONSTRUCTION BY WATERING OR OTHER METHODS AS REQUIRED.
- ACTIVITIES REQUIRED FOR REMOVAL OF ENVIRONMENTALLY CONTAMINATED MATERIALS AND DEVICES SHALL BE COORDINATED THROUGH THE PORT ENGINEER.
- ALL SURVEY MONUMENTS WITHIN LIMITS OF CONSTRUCTION ARE TO BE PROTECTED.

SURVEY NOTES

- HORIZONTAL AND VERTICAL CONTROL DATUM ESTABLISHED BY PTB. LOCATION OF CONTROL POINTS AND BENCHMARKS ARE AVAILABLE UPON REQUEST FROM PTB.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING CONTROL POINTS FOR HORIZONTAL AND VERTICAL CONTROL.
- COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, TRANSVERSE MERCATOR PROJECTION, NORTH AMERICAN DATUM (N.A.D.) OF 1983, ADJUSTMENT OF 1990. PTB CONTROL MONUMENTS PTB 0003, 0004 WERE USED.
- ELEVATIONS SHOWN ARE BASED ON PTB CONTROL MONUMENTS PTB 0003, 0004, NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) OF 1929.
- UNDERGROUND UTILITIES, FOUNDATIONS AND/OR OTHER IMPROVEMENTS HAVE NOT BEEN LOCATED EXCEPT THOSE SHOWN ON THIS SURVEY. THERE MAY BE ADDITIONAL UNDERGROUND UTILITIES.

FENCING

- FURNISH AND ERECT 4-FOOT HIGH BLACK VINYL COATED METAL CHAIN LINK FENCE BASED ON MATERIAL AND CONSTRUCTION METHODS FOR TYPE R FENCE SECTION 550 OF THE FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 2007 EDITION.

HILLSBOROUGH COUNTY SHERIFFS OFFICE

GENERAL NOTES



DRAWN: ARS
DATE: 2014.2.14
CHECKED: MAP
DATE: 2014.2.14
APPROVED: MAP
DATE: 2014.2.14
PTB PROJECT NO.: 3610-0203
SCALE: AS SHOWN
PTB DRWG NO.: 3610-0203

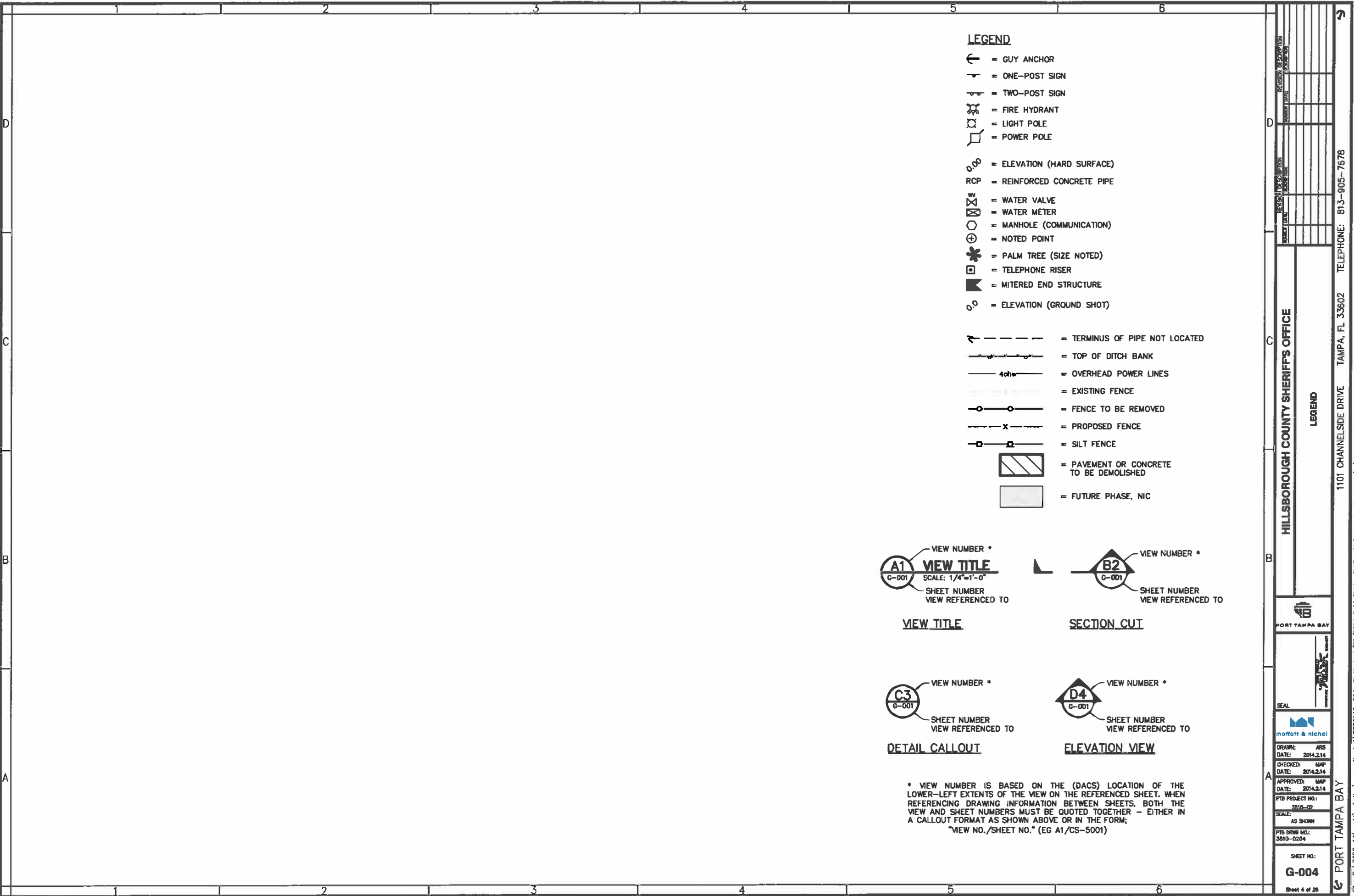
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G-003

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1101 CHANNELSIDE DRIVE TAMPA, FL 33602 TELEPHONE: 813-905-7678

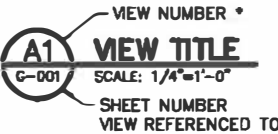
PORT TAMPA BAY

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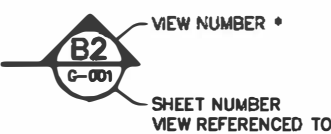


LEGEND

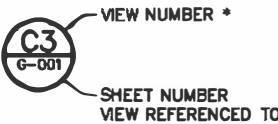
- = GUY ANCHOR
- = ONE-POST SIGN
- = TWO-POST SIGN
- = FIRE HYDRANT
- = LIGHT POLE
- = POWER POLE
- = ELEVATION (HARD SURFACE)
- = REINFORCED CONCRETE PIPE
- = WATER VALVE
- = WATER METER
- = MANHOLE (COMMUNICATION)
- = NOTED POINT
- = PALM TREE (SIZE NOTED)
- = TELEPHONE RISER
- = MITERED END STRUCTURE
- = ELEVATION (GROUND SHOT)
- = TERMINUS OF PIPE NOT LOCATED
- = TOP OF DITCH BANK
- = OVERHEAD POWER LINES
- = EXISTING FENCE
- = FENCE TO BE REMOVED
- = PROPOSED FENCE
- = SILT FENCE
- = PAVEMENT OR CONCRETE TO BE DEMOLISHED
- = FUTURE PHASE, NIC



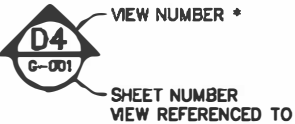
VIEW TITLE



SECTION CUT



DETAIL CALLOUT



ELEVATION VIEW

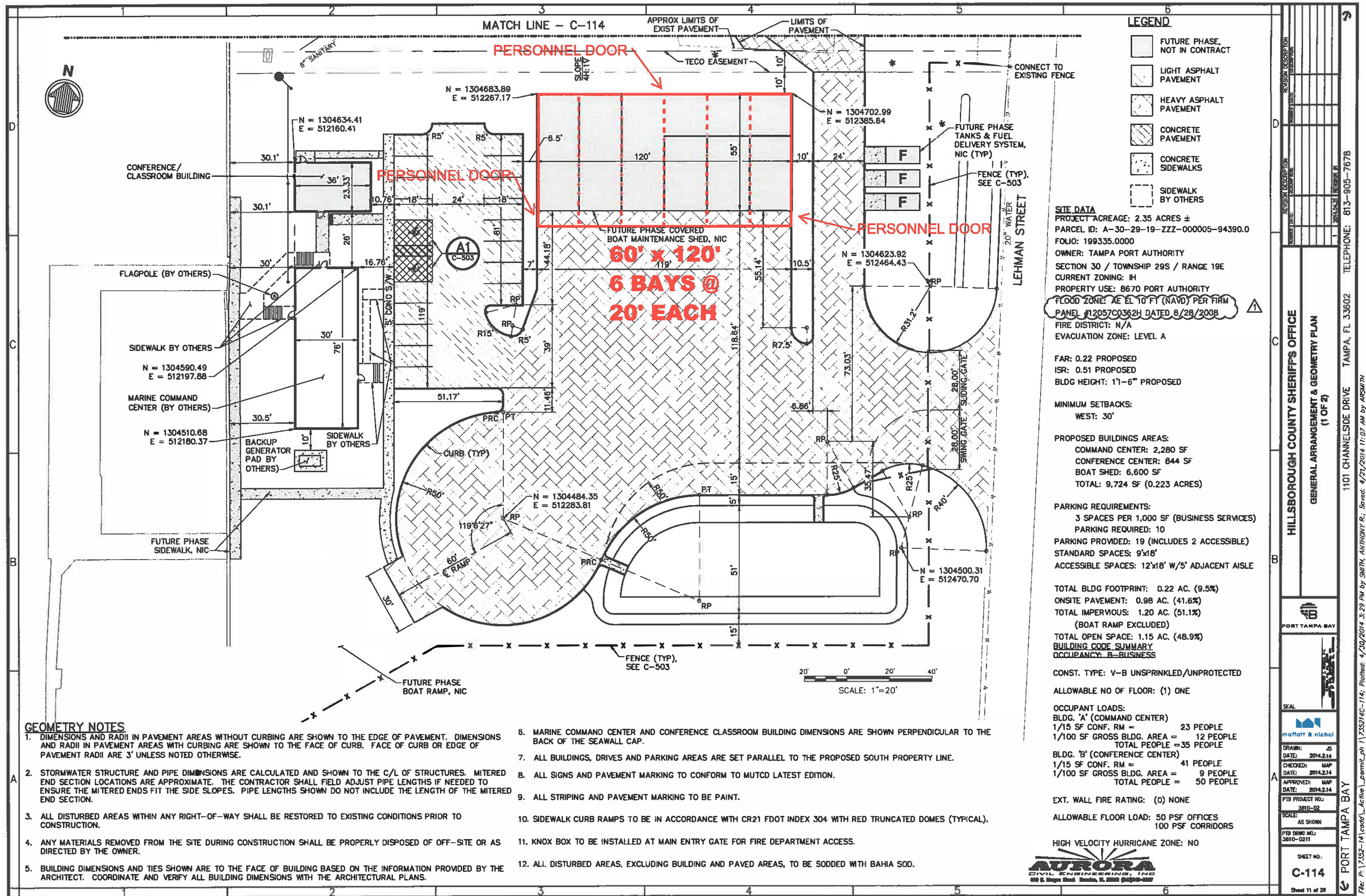
* VIEW NUMBER IS BASED ON THE (DACS) LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM; "VIEW NO./SHEET NO." (EG A1/CS-5001)

HILLSBOROUGH COUNTY SHERIFF'S OFFICE

LEGEND

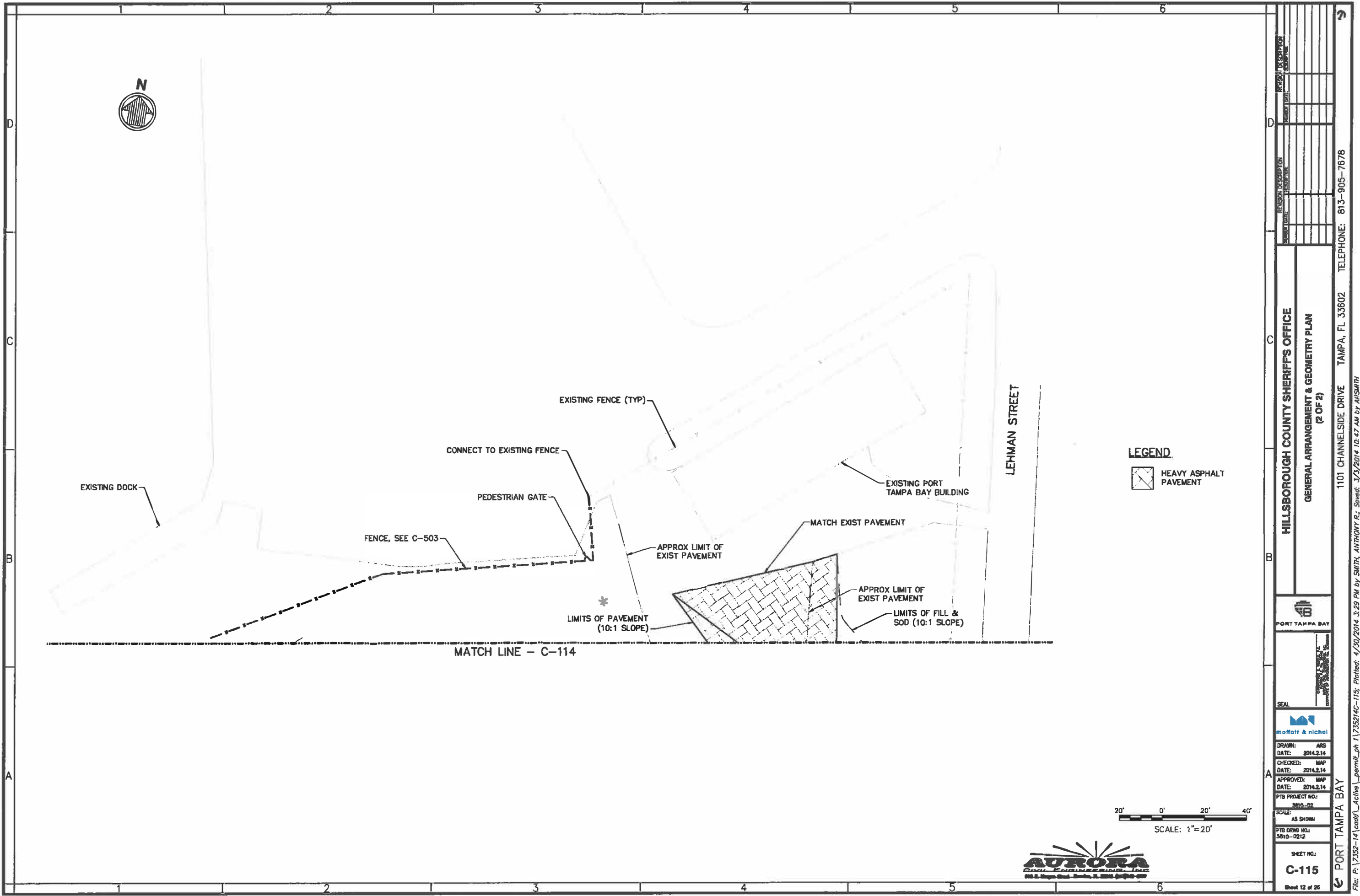
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PTB PROJECT NO.	
SCALE	
PTB DRAWING NO.	
SHEET NO.	G-004

1101 CHANNELSIDE DRIVE TAMPA, FL 33602 TELEPHONE: 813-905-7678



GEOMETRY NOTES

- DIMENSIONS AND RADII IN PAVEMENT AREAS WITHOUT CURBING ARE SHOWN TO THE EDGE OF PAVEMENT. DIMENSIONS AND RADII IN PAVEMENT AREAS WITH CURBING ARE SHOWN TO THE FACE OF CURB. FACE OF CURB OR EDGE OF PAVEMENT RADII ARE 3' UNLESS NOTED OTHERWISE.
- STORMWATER STRUCTURE AND PIPE DIMENSIONS ARE CALCULATED AND SHOWN TO THE C/L OF STRUCTURES. MITERED END SECTION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD ADJUST PIPE LENGTHS IF NEEDED TO ENSURE THE MITERED ENDS FIT THE SIDE SLOPES. PIPE LENGTHS SHOWN DO NOT INCLUDE THE LENGTH OF THE MITERED END SECTION.
- ALL DISTURBED AREAS WITHIN ANY RIGHT-OF-WAY SHALL BE RESTORED TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- ANY MATERIALS REMOVED FROM THE SITE DURING CONSTRUCTION SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE OWNER.
- BUILDING DIMENSIONS AND TIES SHOWN ARE TO THE FACE OF BUILDING BASED ON THE INFORMATION PROVIDED BY THE ARCHITECT. COORDINATE AND VERIFY ALL BUILDING DIMENSIONS WITH THE ARCHITECTURAL PLANS.
- MARINE COMMAND CENTER AND CONFERENCE CLASSROOM BUILDING DIMENSIONS ARE SHOWN PERPENDICULAR TO THE BACK OF THE SEAWALL CAP.
- ALL BUILDINGS, DRIVES AND PARKING AREAS ARE SET PARALLEL TO THE PROPOSED SOUTH PROPERTY LINE.
- ALL SIGNS AND PAVEMENT MARKING TO CONFORM TO MUTCD LATEST EDITION.
- ALL STRIPING AND PAVEMENT MARKING TO BE PAINT.
- SIDEWALK CURB RAMPS TO BE IN ACCORDANCE WITH CR21 FOOT INDEX 304 WITH RED TRUNCATED DOMES (TYPICAL).
- KNOX BOX TO BE INSTALLED AT MAIN ENTRY GATE FOR FIRE DEPARTMENT ACCESS.
- ALL DISTURBED AREAS, EXCLUDING BUILDING AND PAVED AREAS, TO BE SODDED WITH BAHIA SOD.



LEGEND

HEAVY ASPHALT PAVEMENT

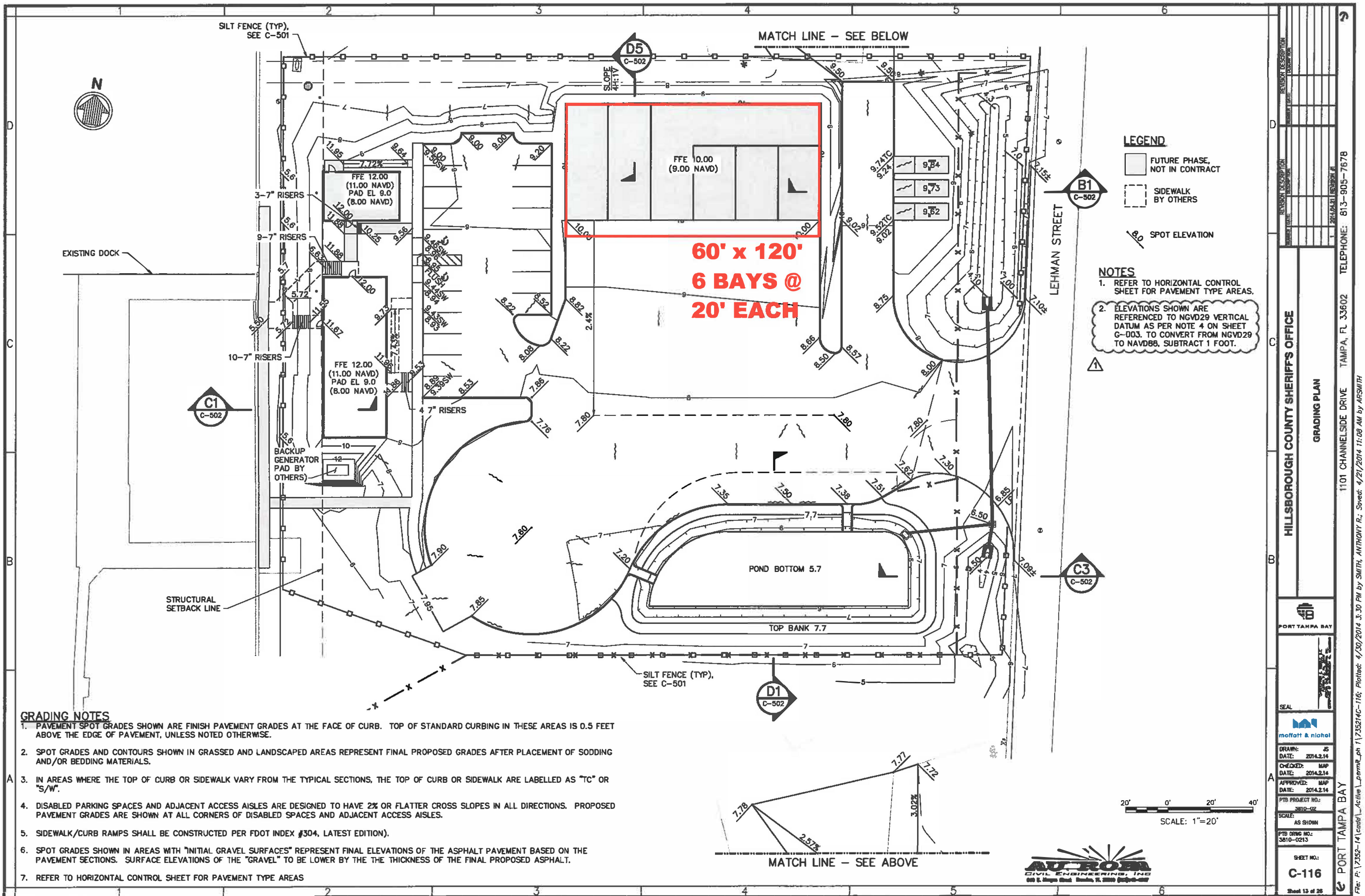
HILLSBOROUGH COUNTY SHERIFF'S OFFICE
GENERAL ARRANGEMENT & GEOMETRY PLAN
(2 OF 2)



DRAWN: ARS
DATE: 2014.2.14
CHECKED: MAP
DATE: 2014.2.14
APPROVED: MAP
DATE: 2014.2.14
PTB PROJECT NO.: 3810-02
PTB DRWG NO.: 3810-0212

SHEET NO.:
C-115
Sheet 12 of 26

1101 CHANNELSIDE DRIVE TAMPA, FL 33602 TELEPHONE: 813-905-7678
File: P:\2352-14\cadd\Active\permit_ph\235214C-115; Plotted: 4/30/2014 3:29 PM by SMITH, ANTHONY R.; Saved: 3/13/2014 10:47 AM by ARSMITH



GRADING NOTES

1. PAVEMENT SPOT GRADES SHOWN ARE FINISH PAVEMENT GRADES AT THE FACE OF CURB. TOP OF STANDARD CURBING IN THESE AREAS IS 0.5 FEET ABOVE THE EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.
2. SPOT GRADES AND CONTOURS SHOWN IN GRASSED AND LANDSCAPED AREAS REPRESENT FINAL PROPOSED GRADES AFTER PLACEMENT OF SODDING AND/OR BEDDING MATERIALS.
3. IN AREAS WHERE THE TOP OF CURB OR SIDEWALK VARY FROM THE TYPICAL SECTIONS, THE TOP OF CURB OR SIDEWALK ARE LABELLED AS "TC" OR "S/W".
4. DISABLED PARKING SPACES AND ADJACENT ACCESS AISLES ARE DESIGNED TO HAVE 2% OR FLATTER CROSS SLOPES IN ALL DIRECTIONS. PROPOSED PAVEMENT GRADES ARE SHOWN AT ALL CORNERS OF DISABLED SPACES AND ADJACENT ACCESS AISLES.
5. SIDEWALK/CURB RAMPS SHALL BE CONSTRUCTED PER FDOT INDEX #304, LATEST EDITION).
6. SPOT GRADES SHOWN IN AREAS WITH "INITIAL GRAVEL SURFACES" REPRESENT FINAL ELEVATIONS OF THE ASPHALT PAVEMENT BASED ON THE PAVEMENT SECTIONS. SURFACE ELEVATIONS OF THE "GRAVEL" TO BE LOWER BY THE THICKNESS OF THE FINAL PROPOSED ASPHALT.
7. REFER TO HORIZONTAL CONTROL SHEET FOR PAVEMENT TYPE AREAS

LEGEND

- FUTURE PHASE, NOT IN CONTRACT
- SIDEWALK BY OTHERS
- SPOT ELEVATION

NOTES

1. REFER TO HORIZONTAL CONTROL SHEET FOR PAVEMENT TYPE AREAS.
2. ELEVATIONS SHOWN ARE REFERENCED TO NGVD29 VERTICAL DATUM AS PER NOTE 4 ON SHEET G-003. TO CONVERT FROM NGVD29 TO NAVD88, SUBTRACT 1 FOOT.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE

GRADING PLAN

PORT TAMPA BAY

SEAL

moffatt & nichol

DRAWN: J5

DATE: 2014.2.14

CHECKED: MAP

DATE: 2014.2.14

APPROVED: MAP

DATE: 2014.2.14

PTB PROJECT NO.:

SCALE: 3/10-02

AS SHOWN

PTB DRWG NO.:

3810-0213

SHEET NO.:

C-116

Sheet 13 of 26

TELEPHONE: 813-905-7678

TAMPA, FL 33602

1101 CHANNELSIDE DRIVE

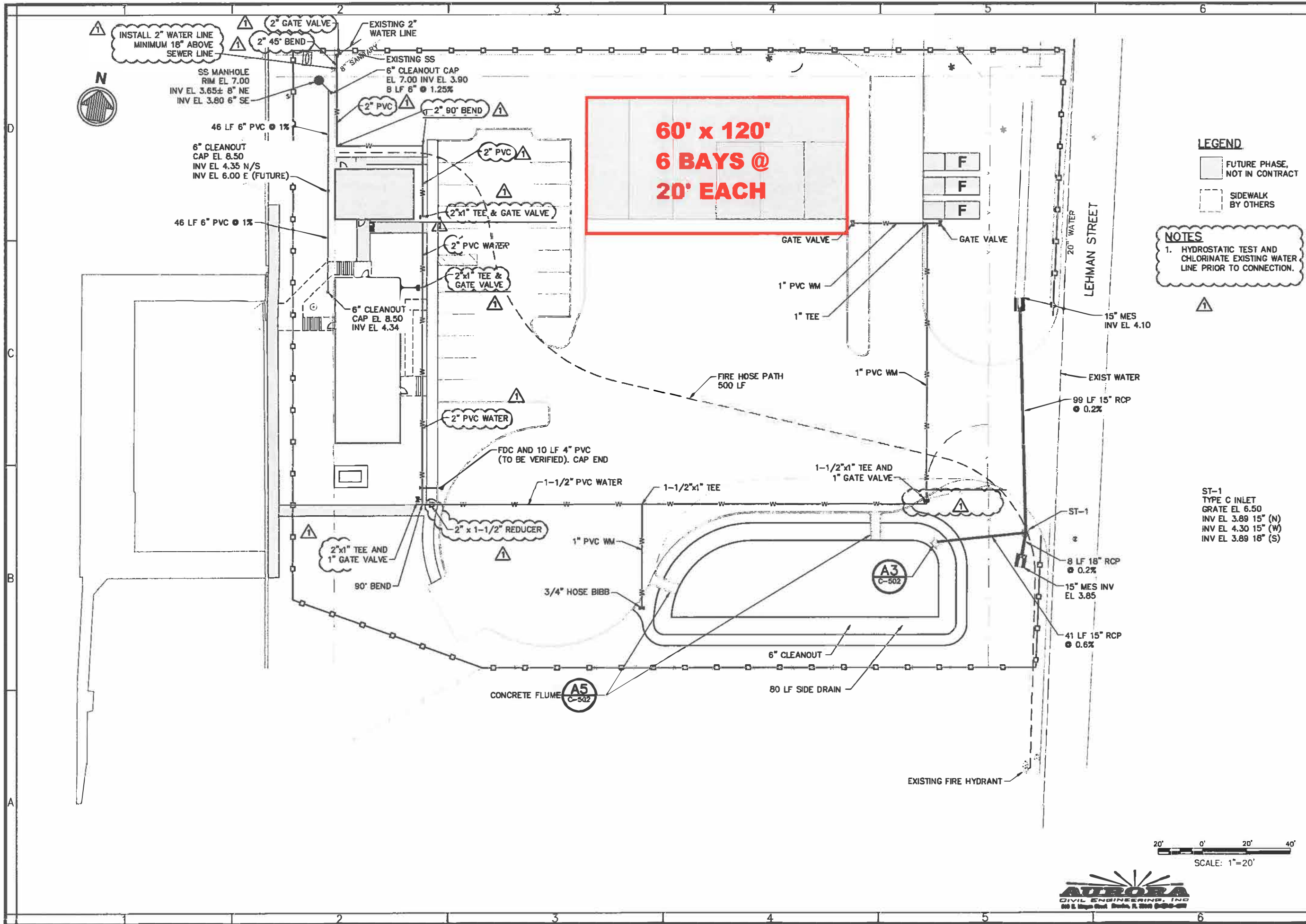
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Drawn by: ARSMITH

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LEGEND

- FUTURE PHASE, NOT IN CONTRACT
- SIDEWALK BY OTHERS

NOTES

- HYDROSTATIC TEST AND CHLORINATE EXISTING WATER LINE PRIOR TO CONNECTION.

ST-1
TYPE C INLET
GRATE EL 6.50
INV EL 3.89 15" (N)
INV EL 4.30 15" (W)
INV EL 3.89 18" (S)

20' 0' 20' 40'
SCALE: 1"=20'



HILLSBOROUGH COUNTY SHERIFF'S OFFICE

UTILITY PLAN



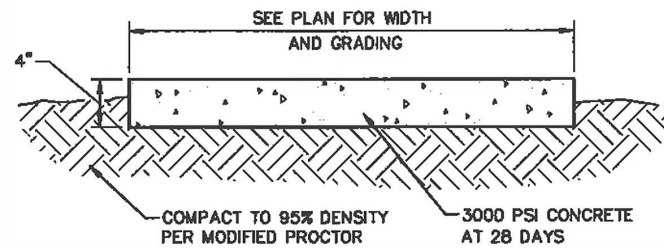
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PTB DRWG NO.: 3810-0214

SHEET NO.: C-117

PORT TAMPA BAY

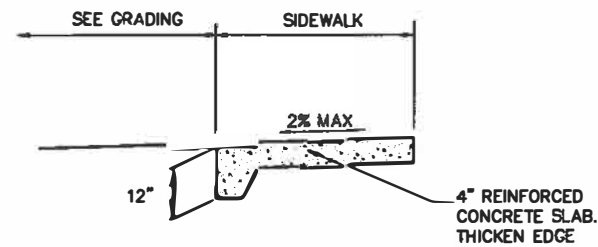
1101 CHANNELSIDE DRIVE TAMPA, FL 33602 TELEPHONE: 813-905-7678

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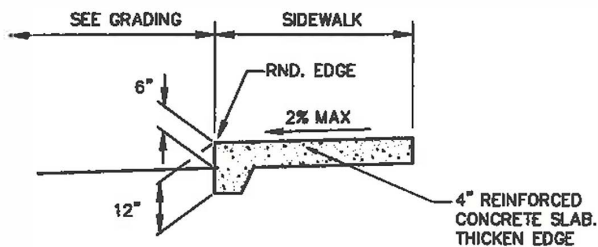


NOTE: 3/16" SAWCUT JOINTS 1-1/2" DEEP AT 5' O.C.
1/2" EXPANSION JOINTS AT 20' O.C.

D1 **DETAIL - TYPICAL SIDEWALK**
C-114 SCALE: NTS

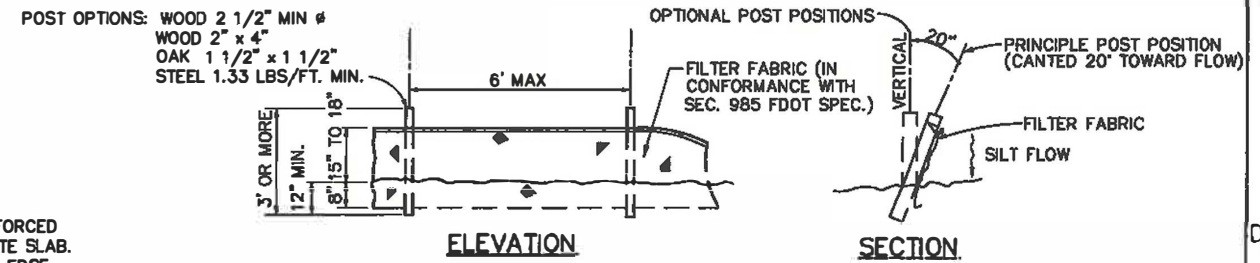


SIDEWALK SECTION - FLUSH

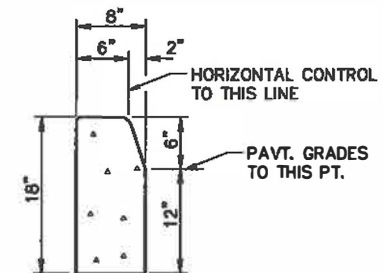


SIDEWALK SECTION - 6" CURB

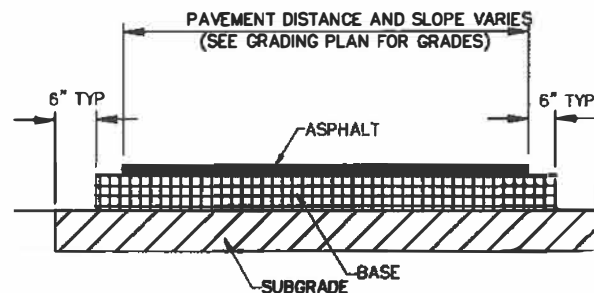
C3 **DETAIL - SIDEWALK SECTIONS**
C-114 SCALE: NTS



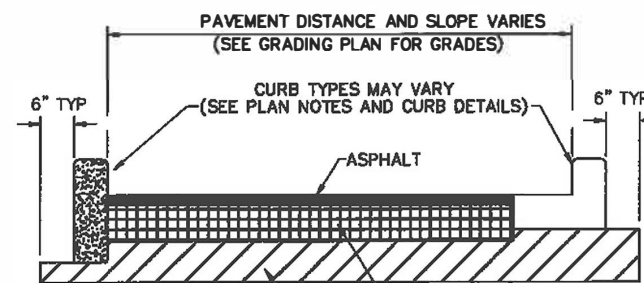
NOTE: FDOT INDEX #102
D5 **DETAIL - TYP III SILT FENCE**
C-116 SCALE: NTS



NOTE: FDOT INDEX #300
C5 **DETAIL - TYPE D CURB**
C-116 SCALE: NTS



PAVEMENT WITHOUT CURBING



PAVEMENT WITH CURBING

A1 **SECTION - TYPICAL PAVEMENT**
C-114 SCALE: NTS

BID

1. BASE BID - CRUSHED CONCRETE BASE ONLY (NO ASPHALT) PROVIDE EXTRA THICKNESS TO ACHIEVE DESIGN GRADES.
2. ADD ALTERNATE BID - ASPHALT SURFACE (INCLUDING STRIPING).

PARKING AND LIGHT USE AREAS

1. ASPHALT: 1-1/2" FDOT TYPE S-1 ASPHALTIC CONCRETE. MINIMUM MARSHALL STABILITY OF 1500 LBS. COMPACTED TO AT LEAST 95% OF ITS LABORATORY DENSITY.
2. BASE: 6" CRUSHED CONCRETE BASE, MIN LBR 100, COMPACTED TO AT LEAST 98% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).
3. SUBGRADE: 12" STABILIZED SUBGRADE, LBR 40 MINIMUM, COMPACTED TO AT LEAST 98% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).

TRUCK AND HEAVY USE AREAS

1. ASPHALT: 2" FDOT TYPE S-1 ASPHALTIC CONCRETE. MINIMUM MARSHALL STABILITY OF 1500 LBS. COMPACTED TO AT LEAST 95% OF ITS LABORATORY DENSITY.
2. BASE: 8" CRUSHED CONCRETE BASE, MIN LBR 100, COMPACTED TO AT LEAST 98% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).
3. SUBGRADE: 12" STABILIZED SUBGRADE, LBR 40 MINIMUM, COMPACTED TO AT LEAST 98% OF ITS MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).
4. 1.5 x BASE THICKNESS SHOWN MAY BE USED IN LIEU OF STABILIZED SUBGRADE.



NOTE: REFER TO CONCRETE PAVEMENT NOTES BELOW

B4 **SECTION - TYPICAL 6 INCH CONCRETE PAVEMENT**
C-116 SCALE: NTS

CONCRETE PAVEMENT NOTES:

1. CONCRETE TO BE PLACED OVER COMPACTED SUBGRADE, (98% T-180, LBR 40 MINIMUM.)
2. CONCRETE TO BE 6" THICK, 4000 PSI, FIBER MESH REINFORCED.
3. CONCRETE TO BE PLACED AT 3" SLUMP ($\pm \frac{1}{2}$ ")
4. WATER/MIST CURE CONCRETE FOR 7 DAYS AFTER PLACEMENT.
5. PROVIDE SAWCUT JOINTS AT 10 FEET ON CENTER MAXIMUM EACH WAY. SAWCUT JOINT DEPTH TO BE $\frac{1}{2}$ THE THICKNESS OF THE CONCRETE. CUT AS SOON AS POSSIBLE AFTER PLACED. PLACE $\frac{1}{2}$ " EXPANSION JOINTS ADJACENT TO ALL BUILDING STRUCTURES AND CURBING. EXPANSION JOINTS SHALL BE A MAXIMUM OF 75 FEET APART. THE CONTRACTOR SHALL PREPARE AND SUBMIT A JOINT PLAN, INCLUDING EXPANSION JOINTS, TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION OF CONCRETE PAVEMENT.
6. ALL CONCRETE SHALL HAVE A MEDIUM BROOM FINISH TO PROVIDE A NON-SLIP SURFACE UNLESS DIRECTED OTHERWISE BY THE OWNER.



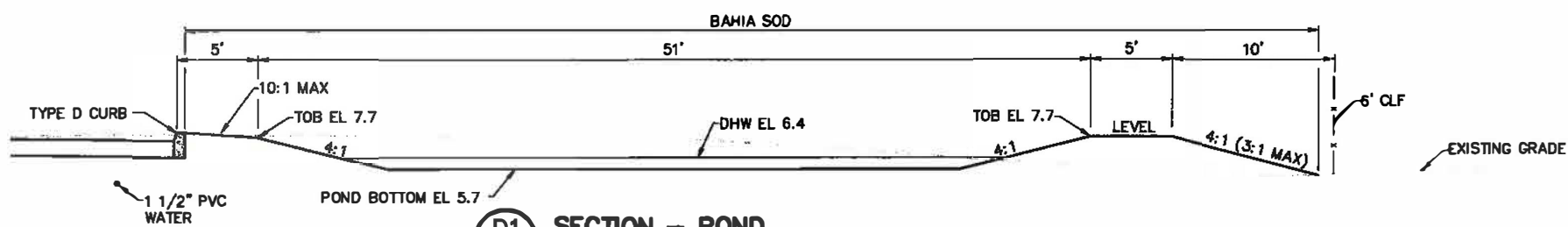
HILLSBOROUGH COUNTY SHERIFF'S OFFICE

CIVIL DETAILS (1 OF 4)

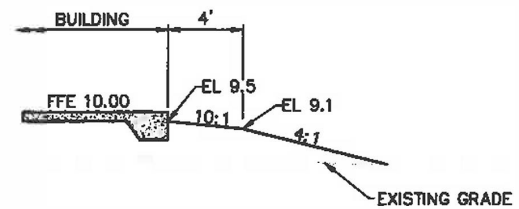
1101 CHANNELSIDE DRIVE TAMPA, FL 33602 TELEPHONE: 813-905-7678

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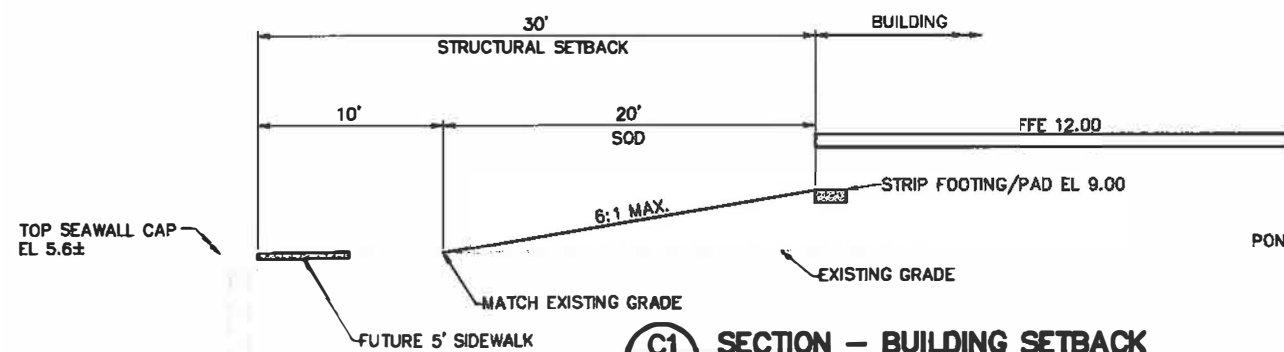
PORT TAMPA BAY	
SEAL	
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APPROVED: MAP DATE: 2014.2.14	
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SCALE: AS SHOWN	
PTB DRWG NO.: 3810-0215	
SHEET NO.: C-501	
Sheet 18 of 28	



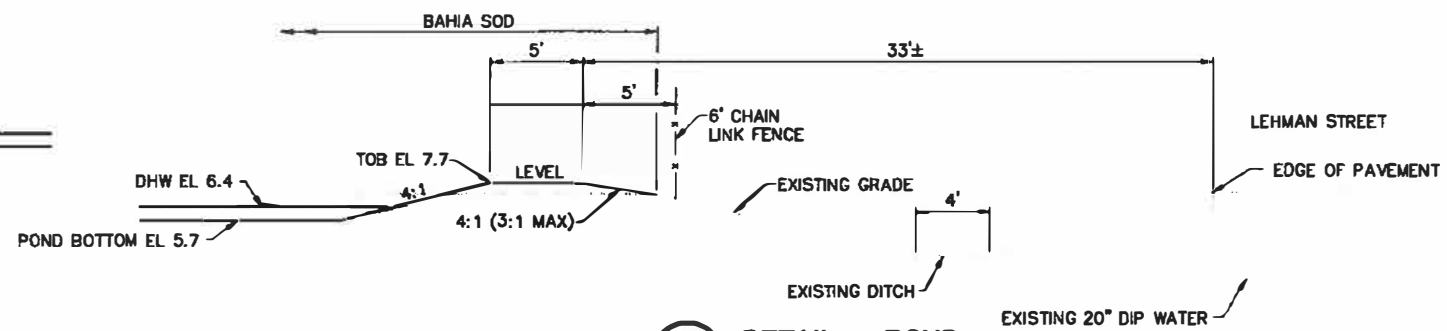
D1 SECTION - POND
C-116 SCALE: NTS



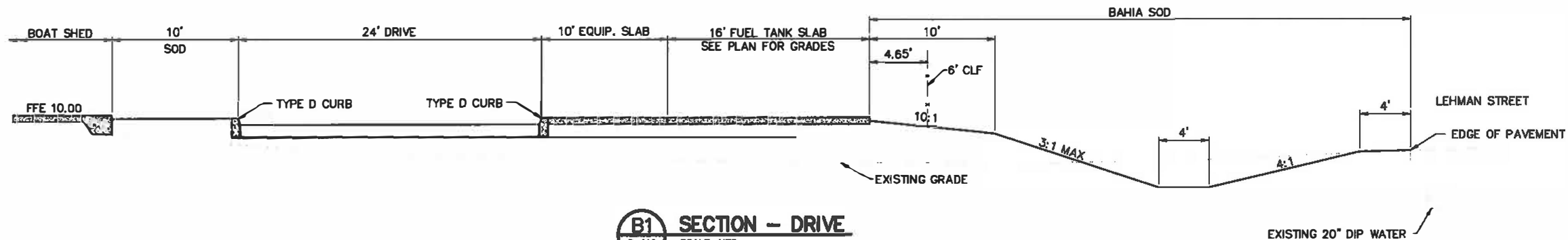
D5 SECTION - BOAT SHED
C-116 SCALE: NTS



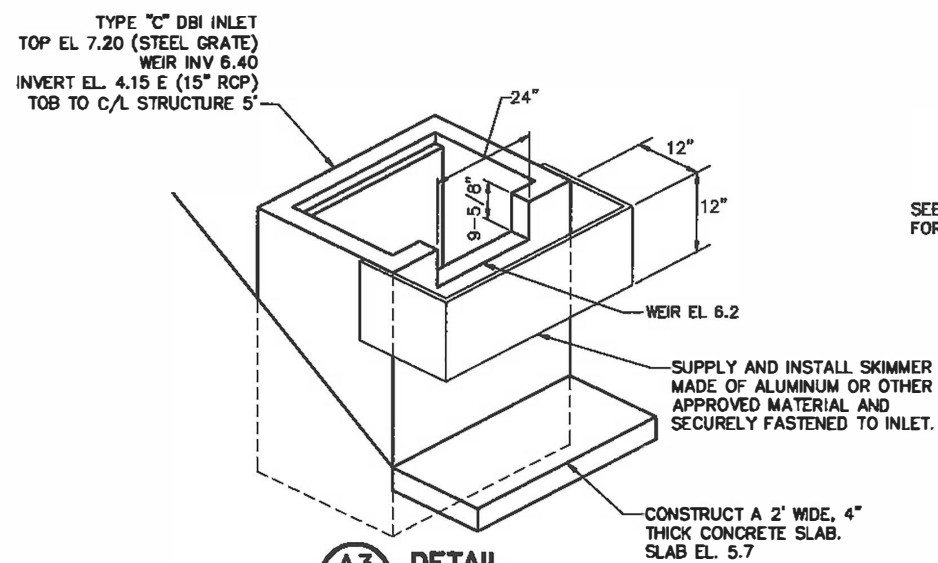
C1 SECTION - BUILDING SETBACK
C-116 SCALE: NTS



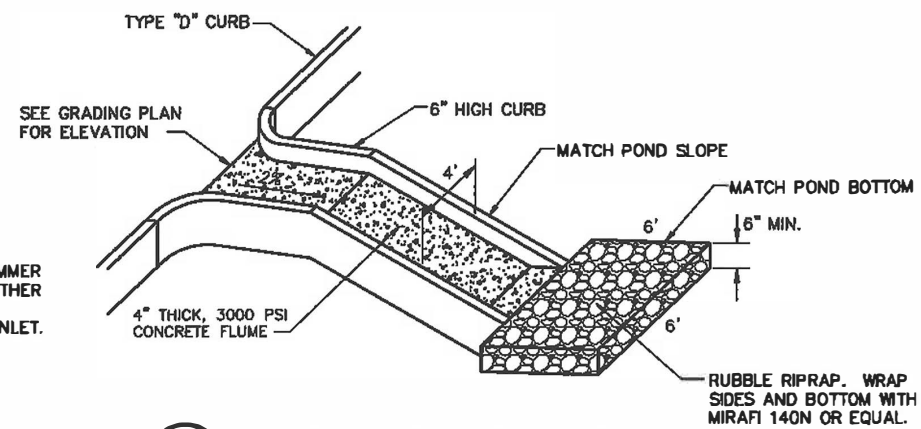
C3 DETAIL - POND
C-116 SCALE: NTS



B1 SECTION - DRIVE
C-116 SCALE: NTS



A3 DETAIL
C-117 SCALE: NTS



A5 DETAIL - CONCRETE FLUME
C-116 SCALE: NTS

HILLSBOROUGH COUNTY SHERIFF'S OFFICE

CIVIL DETAILS (2 OF 4)

1101 CHANNELSIDE DRIVE TAMPA, FL 33602 TELEPHONE: 813-905-7678

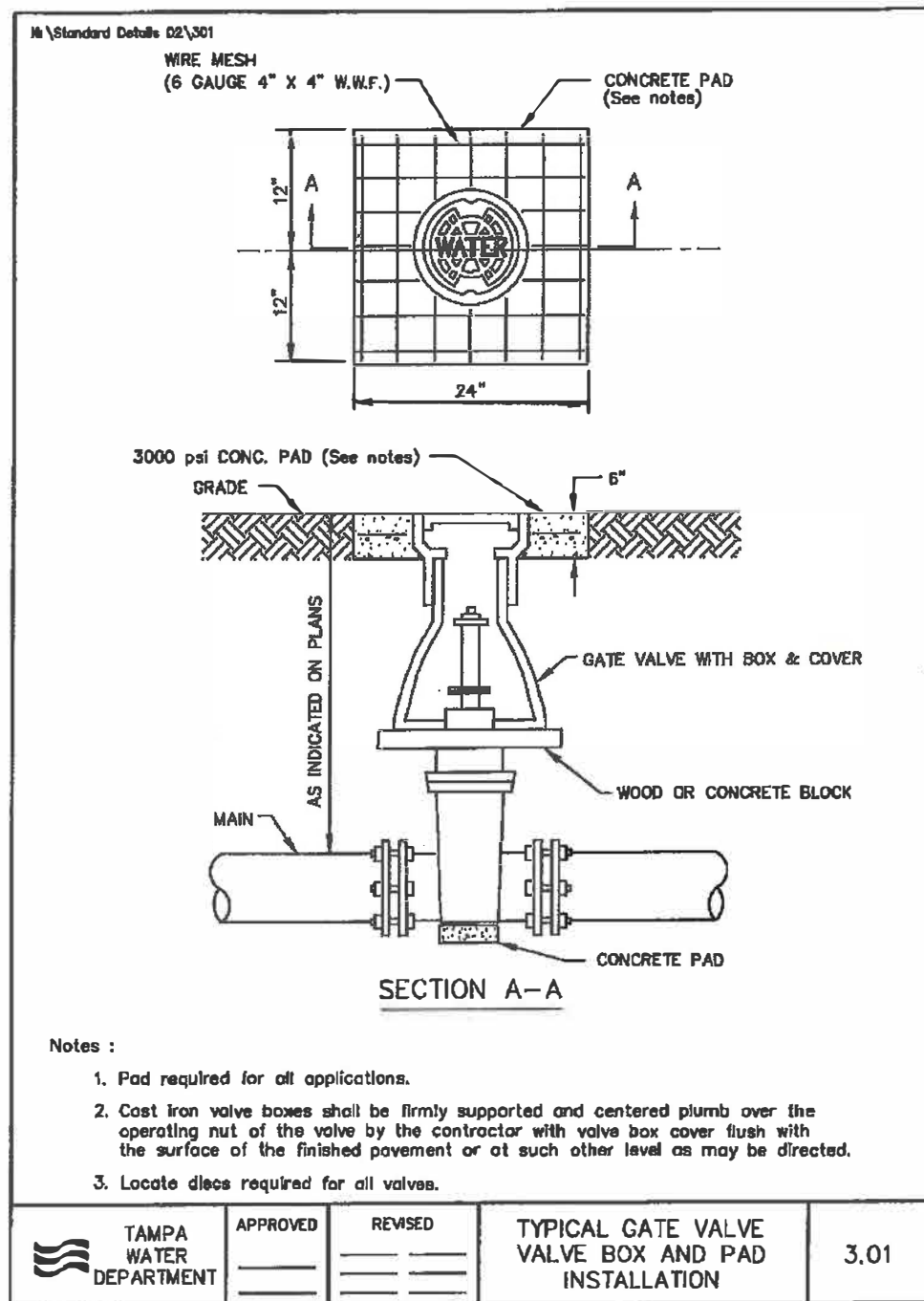


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CHECKED: MAP	DATE: 2014.2.14
APPROVED: MAP	DATE: 2014.2.14
PTB PROJECT NO.: 3810-02	SCALE: AS SHOWN
PTB BRG NO.: 3810-0216	

SHEET NO.: C-502

Sheet 15 of 25

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NOTES:

1. THE POTABLE WATER SYSTEM SHALL BE PRESSURE TESTED DOWNSTREAM OF THE POC. FLUSH PIPING WITH CLEAN WATER TO REMOVE DEBRIS. APPLY AND MAINTAIN 125 PSI WORKING TEST PRESSURE FOR 15 MINUTES, DURING WHICH TIME THERE WILL BE NO REDUCTION IN TEST PRESSURE - SHOULD A REDUCTION OCCUR, LEAKS SHALL BE LOCATED, REPAIRED AND THE TEST REPEATED. THE POTABLE WATER SYSTEM FROM THE POC SHALL BE STERILIZED PRIOR TO USE. A SOLUTION OF CHLORINE AND WATER CONTAINING NOT LESS THAN 50 P.P.M. OF FREE CHLORINE SHALL BE INJECTED INTO THE SYSTEM IN SUCH A MANNER AS TO INSURE THAT THE ENTIRE SYSTEM IS COMPLETELY FILLED WITH THE SOLUTION. AFTER INJECTION, THE SYSTEM SHALL BE ISOLATED AND THE SOLUTION HELD FOR A PERIOD OF 24 HOURS MINIMUM. THE SYSTEM SHALL THEN BE FLUSHED WITH FRESH WATER UNTIL THE CHLORINE LEVEL IN THE SYSTEM DOES NOT EXCEED THE LEVEL OF THE FLUSHING WATER. THE CONTRACTOR SHALL CONTRACT WITH A CITY OF TAMPA APPROVED LABORATORY TO PROVIDE TWO CONSECUTIVE DAYS OF PASSING BACTERIOLOGICAL TESTS. OBTAIN FINAL PLUMBING DEPARTMENT APPROVALS PRIOR TO ALLOWING HUMAN CONSUMPTION. THE CONTRACTOR SHALL INSURE THAT THE WATER IN THE SYSTEM IS NOT USED FOR HUMAN CONSUMPTION DURING THE STERILIZATION PROCESS AND THAT STERILIZATION SOLUTION IS DISPOSED OF IN ACCORDANCE WITH LOCAL REQUIREMENTS.
2. STANDARD DETAIL FROM CITY OF TAMPA WATER DEPARTMENT EXHIBITS.

⚠ SHEET CONTENT CHANGED



HILLSBOROUGH COUNTY SHERIFF'S OFFICE		CIVIL DETAILS (4 OF 4)	
1101 CHANNELSIDE DRIVE		TAMPA, FL 33602	
TELEPHONE: 813-905-7678			
PORT TAMPA BAY		PORT TAMPA BAY	
SEAL		SEAL	
moffatt & nichol		moffatt & nichol	
DRAWN: 5		DATE: 2014.2.14	
CHECKED: MAP		DATE: 2014.2.14	
APPROVED: MAP		DATE: 2014.2.14	
PTB PROJECT NO.: 3810-02		PTB DRWG NO.: 3810-0219	
SCALE: AS SHOWN		SHEET NO.: C-504	
Sheet 19 of 20		PORT TAMPA BAY	

ELECTRICAL GENERAL NOTES

1. GENERAL CONDITIONS:

- A. UNDER THIS SECTION THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, APPURTENANCES, SERVICES AND SUPERVISION FOR A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWING. ALL MATERIAL AND EQUIPMENT SHALL BE WORKED INTO A COMPLETE, CONVENIENT, AND ECONOMICAL SYSTEM OR SYSTEMS. ALL APPARATUS, PARTS, MATERIAL, AND ACCESSORIES WHICH ARE NECESSARY TO ACCOMPLISH THIS RESULT SHALL BE PROVIDED. MANUFACTURER'S INSTRUCTIONS, WRITTEN OR OTHERWISE, SHALL BE FOLLOWED, UNLESS SUPERSEDED HERE IN. ALL ITEMS SHOWN ARE NEW AND SHALL BE PROVIDED FOR THE CONTRACTOR UNLESS SPECIFICALLY INDICATED OTHERWISE.
- B. PROVIDE IS DEFINED TO MEAN THAT THE CONTRACTOR SHALL FURNISH, INSTALL, ADJUST, TEST AND INTEGRATE INTO A COMPLETE SYSTEM THE ITEM INDICATED. INCLUDING ALL HARDWARE WIRING, AND MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- C. CONTRACTOR SHALL GIVE REQUIRED NOTICES, OBTAIN NECESSARY PERMITS, AND PAY PERMIT FEES.
- D. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT OF THE WORK. MINOR VARIATIONS IN LOCATION OF EQUIPMENT SHALL BE MADE UPON WRITTEN APPROVAL OF THE ENGINEER AT NO ADDITIONAL CHARGE.
- E. ALL DIMENSIONS AND ELEVATIONS NOTED ARE ENGLISH UNITS UNLESS OTHERWISE NOTED.
- F. COOPERATE AND COORDINATE THE WORK OF THIS DIVISION WITH OTHER TRADES.
- G. THE LATEST EFFECTIVE PUBLICATIONS OF THE FOLLOWING STANDARDS, CODES, ETC. FORM A PART OF THESE SPECIFICATIONS:

- (1) ALL STATE AND LOCAL BUILDING CODES.
(2) SERVICE RULES AND REGULATIONS OF THE LOCAL ELECTRIC UTILITY COMPANY.
(3) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
(4) ASTM INTERNATIONAL (ASTM).
(5) BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL (BICSI).
(6) INTERNATIONAL BUILDING CODE (IBC).
(7) INTERNATIONAL FIRE CODES (IFC).
(8) INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
(9) NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
(10) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
(11) NATIONAL ELECTRICAL CODE (NEC).
(12) TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA).
(13) UNDERWRITERS LABORATORIES (UL).
(14) ILLUMINATING ENGINEERING SOCIETIES (IES).

- H. SUBSTANTIAL COMPLETION: UPON COMPLETION OF THE ENTIRE WORK, THE CONTRACTOR SHALL PERFORM SUCH TESTS AS REQUIRED BY THE ENGINEER. THE ENGINEER SHALL BE GIVEN 48 HOURS NOTICE BEFORE TESTS ARE MADE. THE CONTRACTOR SHALL FURNISH THE ENGINEER A CERTIFICATE OF APPROVAL FROM THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
- I. WARRANTY: CONTRACTOR SHALL FURNISH WRITTEN WARRANTY, COUNTERSIGNED, AND GUARANTEED BY THE GENERAL CONTRACTOR, STATING THAT THE WORK EXECUTED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF 12 MONTHS FROM DATE OF FINAL ACCEPTANCE. DEFECTS DEVELOPING DURING THAT PERIOD SHALL BE CORRECTED WITHOUT COST TO THE OWNER.
- J. IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE INTEGRITY OF THE SYSTEMS. CONTRACTOR SHALL PROVIDE OWNER WITH COMPLETE OPERATION AND MAINTENANCE INFORMATION FROM EQUIPMENT MANUFACTURERS.
- K. SIX COMPLETE SCHEDULES OF MATERIALS AND EQUIPMENT PROPOSED FOR INSTALLATION SHALL BE SUBMITTED TO THE ENGINEER WITHIN 30 DAYS AFTER AWARD OF THE CONTRACT. THE SCHEDULES SHALL INCLUDE CATALOG CUTS, DIAGRAMS AND SUCH OTHER DESCRIPTIVE DATA AND/OR SAMPLES AS MAY BE REQUIRED BY THE ENGINEER. LIGHTING FIXTURE SUBMITTALS SHALL INCLUDE PHOTOMETRIC REPORTS BY INDEPENDENT TESTING LABORATORIES FOR EACH FIXTURE INDICATED BASED ON IES PUBLISHED PROCEDURES.
- L. SUBMITTALS THAT DO NOT BEAR THE GENERAL CONTRACTOR'S STAMP OF APPROVAL THEREON WILL BE REJECTED WITHOUT REVIEW.

2. GENERAL MATERIAL REQUIREMENTS:

- A. EQUIPMENT AND PRODUCTS TO BE USED SHALL BE REVIEWED AND APPROVED BY OWNER PRIOR TO PLACING ORDER OR PURCHASE.
- B. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE LABEL OF A NATIONALLY RECOGNIZED TESTING AGENCY AND SHALL BE INSTALLED IN THE MANNER FOR WHICH IT IS DESIGNED AND APPROVED.
- C. ALL MATERIAL, INCLUDING PULL BOXES, CONDUIT BODIES, FITTINGS AND MOUNTING HARDWARE INSTALLED OUTSIDE SHALL BE APPROVED WEATHERTIGHT CORROSION RESISTANT (STAINLESS STEEL), UNLESS NOTED OTHERWISE.
- D. CONTRACTOR SHALL INSPECT MATERIALS DELIVERED TO SITE FOR DAMAGE. UNLOAD AND STORE WITH MINIMUM HANDLING. STORE MATERIALS ON SITE IN ENCLOSURES OR UNDER PROTECTIVE COVERING. STORE PLASTIC PIPING UNDER COVER OUT OF DIRECT SUNLIGHT. DO NOT STORE MATERIALS DIRECTLY ON THE GROUND. KEEP INSIDE OF CONDUITS, FITTINGS AND EQUIPMENT FREE OF DIRT AND DEBRIS. HANDLE CONDUIT, FITTINGS, AND OTHER ACCESSORIES IN SUCH MANNER AS TO ENSURE DELIVERY TO THE INSTALLATION LOCATION IN A SOUND UNDAMAGED CONDITION.
- E. STARTERS, CONTROLLERS, THERMOSTATS, FAN SWITCHES, INDICATING LIGHTS, ETC.; AND CONTROL WIRING AND WIRING FOR REMOTE STATIONS REGARDLESS OF VOLTAGE SHALL BE PROVIDED UNDER THE DIVISION PROVIDING THE RESPECTIVE MOTOR AND/OR EQUIPMENT UNLESS OTHERWISE INDICATED.
- F. SUPPORTS AND HARDWARE SHALL BE TYPE 316 STAINLESS STEEL. SUBMIT SHOP DRAWINGS OR CATALOG DATA FOR REVIEW AND APPROVAL. A DIELECTRIC ISOLATION SHEET SHALL BE PLACED WHERE DISSIMILAR METALS CONTACT ON THE SUPPORT.
- G. PANELBOARDS, ENCLOSED CIRCUIT BREAKERS AND SAFETY SWITCHES, WHEN APPLICABLE, SHALL BE MANUFACTURED BY THE SAME MANUFACTURER. WIRING DEVICES SHALL BE MANUFACTURED BY ONE MANUFACTURER.
- H. SUBSTITUTION OF MATERIAL AND EQUIPMENT: THE NAME OF A CERTAIN BRAND, MAKE, MANUFACTURER OR DEFINITE SPECIFICATION IS TO DENOTE THE QUALITY STANDARD OF

ARTICLE DESIRED. SUBSTITUTION OF ANY OTHER BRAND, MAKE, OR MANUFACTURER, WHICH IN THE OPINION OF THE ENGINEER IS RECOGNIZED THE EQUAL OF THAT SPECIFIED MAY BE ACCEPTED.

- I. PROVIDE ENGRAVED PLASTIC NAMEPLATES ON ALL DISTRIBUTION EQUIPMENT AND PANELS, SECURED BY MEANS OF STAINLESS STEEL RIVETS. TAPES AND ADHESIVES ARE NOT ACCEPTABLE.
- J. UNLESS NOTED OTHERWISE, ALL PANEL BUSES, FEEDER CONDUCTORS AND BRANCH CIRCUIT WIRING SHALL BE COPPER. ALL WIRE SHALL BE UL LISTED, RATED FOR 600 VOLTS, NO. 12 MINIMUM SIZE, UNLESS NOTED OTHERWISE.
- K. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

3. GENERAL INSTALLATION REQUIREMENTS:

- A. INSTALL MATERIALS AND EQUIPMENT IN FIRST CLASS AND WORKMANLIKE MANNER AND RUN CONCEALED, EXCEPT AS INDICATED.
- B. POWER WIRING AND POWER CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED UNDER "ELECTRICAL" UNLESS OTHERWISE INDICATED ON THE ELECTRICAL DRAWINGS. WHEN SUBSTITUTED MOTORS AND/OR EQUIPMENT REQUIRES ELECTRICAL MODIFICATIONS, THE COST OF THE ELECTRICAL MODIFICATIONS AND COORDINATION SHALL BE INCLUDED UNDER THE DIVISION PROVIDING THE MOTOR AND/OR EQUIPMENT.
- C. THE ELECTRICAL CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER, WITHOUT APPROVAL FROM THE ENGINEER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORT FOR ALL ELECTRICAL EQUIPMENT TO COMPLY WITH THE REQUIREMENTS OF THE LATEST ADOPTED BUILDING CODE AND ALL LOCAL ORDINANCES.
- D. SCHEDULING, TRENCHING, LINE SHUTDOWN, DRAINAGE, TIE-IN, CONDUIT BEDDING, SUPPORTS, INSTALLATION OF NEW LINE, WALL PENETRATIONS, AND EQUIPMENT PLACEMENTS, TESTING, WARNING TAPE, BACKFILL, SURFACING, LANDSCAPING, ACTIVATION OF SERVICE, ETC., SHALL COMPLY WITH THE LOCAL BUILDING CODE STANDARDS AND REGULATIONS AND SHALL BE COORDINATED WITH THE LOCAL CODE OFFICIAL AND THE FIRE DEPARTMENTS. PRIOR APPROVAL OF AND NOTICE TO PROCEED WITH CONCEALING ELECTRICAL WIRING AND FINAL CONNECTIONS ARE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- E. THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL WITNESS TESTING.
- F. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS IN THE FIELD BEFORE STARTING WORK. THE REGIONAL NOTIFICATION CENTER (AND/OR PROPERTY OWNERS) SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF SHUTDOWN, DIGGING OR EXCAVATION WORK. THE CONTRACTOR SHALL FIELD VERIFY THE POINTS OF CONNECTIONS AND PHASED CONSTRUCTION TIE-INS. LOCATIONS OF PIPING AND APPURTENANT FITTINGS SHOWN ON THE DRAWINGS ARE APPROXIMATE. IT IS INTENDED THAT SUCH ITEMS BE LOCATED BASED ON EXACT LOCATIONS DETERMINED IN THE FIELD AND THE SUPPLIED MATERIALS.
- G. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FOR FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- H. AN ABRASION PROTECTION PAD SHALL BE USED WHERE POTABLE WATER, SEWER, AND FIRE WATER LINES CROSS WITH LESS THAN 1" CLEARANCE. THE PAD SHALL BE 1/16" MAX THICKNESS OF LDPE SHEET. THE LDPE PAD SHALL BE 12" LONG AND WRAP COMPLETELY AROUND ONE LINE AT THE CROSSING. SS WORM DRIVE HOSE CLAMPS SHALL BE USED TO ATTACH THE LDPE PAD TO THE PIPE. THE CLAMP SHALL BE AT LEAST 2" FROM EACH SIDE OF THE LINE BEING CROSSED.
- I. DIELECTRIC COUPLINGS/FLANGES SHALL BE USED AT DISSIMILAR METAL PIPING CONNECTIONS.
- J. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUITS AND WIRES WITH A MINIMUM NUMBER OF BENDS AND IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS, AND MEET ALL STRUCTURAL CODE REQUIREMENTS. THESE DRAWINGS ARE PRIMARILY DIAGRAMMATIC, AND DO NOT SHOW ALL SUCH REQUIRED BENDS, OFFSETS, FITTING, BOXES, ETC..
- K. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY NATIONAL ELECTRICAL CODE. POWER CONDUITS SHALL HAVE A INSULATED COPPER, CODE SIZED GROUND WIRE INSTALLED.
- L. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.

4. CONDUIT REQUIREMENTS:

- A. BURIED CONDUIT LINES SHALL HAVE PLASTIC WARNING TAPE WITH METALLIC CORE OR METAL FACED PLACED IN TRENCH ABOVE PIPING. THE TAPE SHALL BE PLACED 9 INCHES TO 12 INCHES BELOW FINISHED GRADE.
- B. ALL CONDUIT SHALL FOLLOW THE GENERAL ARRANGEMENT SHOWN. CONDUIT SHALL BE RUN ESSENTIALLY AS INDICATED, CARE BEING TAKEN TO AVOID INTERFERENCE WITH OTHER PIPING, CONDUIT OR EQUIPMENT. BEFORE JOINTING AND INSTALLATION OF CONDUIT, THOROUGHLY CLEAN INTERIORS OF CONDUIT, AND COMPONENTS. MAINTAIN CLEANLINESS BY CLOSURE OF CONDUIT OPENINGS WITH CAPS OR PLUGS.
- C. THE CONTRACTOR SHALL ENSURE SUFFICIENT CONDUIT FLEXIBILITY AND ANCHORAGE IS PROVIDED FOR ALL LINES FOR THERMAL EXPANSION AND CONTRACTION, PRESSURE AND FLEXING. THE STRUCTURE AND COMPONENTS SHALL ACCOMMODATE THE CONDUIT LAYOUT REQUIREMENTS SUCH THAT THE CONDUIT SHALL NOT BECOME OVERSTRESSED. THE CONDUIT SHALL BE PROPERLY SUPPORTED AND ANCHORED.
- D. CONDUIT AND FITTINGS SHALL CONFORM TO THE FOLLOWING:
- (1) RIGID STEEL - ANSI C80 (HOT DIPPED GALVANIZED).
(2) PVC COATED RIGID STEEL - ANSI RN 1, TYPE 40 (40 MILS THICK).
(3) PLASTIC CONDUIT (PVC) - NEMA TC-2 AND TC-3.
(4) FLEXIBLE METAL CONDUIT - UL-1.
(5) LIQUID-TIGHT FLEXIBLE METAL CONDUIT - UL-360.

- E. CONDUIT SHALL BE RUN CONCEALED, EXCEPT CONDUIT MAY BE EXPOSED AS APPROVED BY THE ENGINEER. WHERE FLEXIBILITY IS REQUIRED, PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT EXCEPT AS INDICATED OTHERWISE. CONDUITS RUN EXPOSED SHALL BE GALVANIZED RIGID STEEL.

- F. CONDUIT RUN ON LAND SHALL BE BURIED A MINIMUM OF 24 INCHES BELOW FINISHED GRADE. CONDUITS RUN BELOW SLAB ON GRADE SHALL BE BURIED A MINIMUM OF 12 INCHES BELOW SLAB, AND SHALL BE RIGID HOT DIPPED GALVANIZED STEEL CONDUIT PAINTED WITH TWO COATS OF BITUMASTIC PAINT, OR RIGID NON-METALLIC POLYVINYLCHLORIDE CONDUIT, MINIMUM SCHEDULE 40, AT THE OPTION OF THE CONTRACTOR, UNLESS A SPECIFIC TYPE OF CONDUIT IS SPECIFIED OR INDICATED ON THE DRAWINGS.

- G. MINIMUM SIZE CONDUIT SHALL BE THREE-QUARTER INCH WITH LARGER SIZES AS REQUIRED BY THE NATIONAL ELECTRICAL CODE FOR NUMBER OF WIRES CONTAINED THEREIN. CONDUITS FOR COMMUNICATIONS CIRCUITS SHALL BE THREE QUARTER INCH DIAMETER MINIMUM FOR A SINGLE CABLE, ONE INCH DIAMETER MINIMUM FOR MORE THAN ONE CABLE AND LARGER CONDUIT DIAMETERS AS DIRECTED BY TIA AND BICSI RECOMMENDATIONS.

- H. RIGID CONDUIT FITTINGS SHALL BE THREADED.

- I. FLEXIBLE CONDUIT SHALL BE GALVANIZED, SINGLE STRIP TYPE. IN AREAS SUBJECT TO MOISTURE, OR WHERE CALLED FOR ON THE DRAWINGS, FLEXIBLE CONDUIT SHALL HAVE A PLASTIC COVERING IN ACCORDANCE WITH NEC. FITTINGS SHALL BE STANDARD UL APPROVED WITH GROUND CONNECTOR. WATERTIGHT CONNECTORS SHALL BE USED WITH PLASTIC COVERED CONDUIT. FLEXIBLE CONDUIT, MINIMUM 18 INCHES IN LENGTH, SHALL BE USED FOR CONNECTIONS TO MOTORS, DRY TYPE TRANSFORMERS AND OTHER EQUIPMENT SUBJECT TO VIBRATION.

- J. EXPOSED CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURES AND SHALL BE SUPPORTED AS SPECIFIED AND IN ACCORDANCE WITH NEC.

- K. CONDUIT SUPPORTS SHALL BE APPROVED WALL BRACKETS, TRAPEZOID, STRAP HANGER OR PIPE STRAPS SECURED TO HOLLOW MASONRY WITH TOGGLE BOLTS; TO BRICK AND CONCRETE WITH EXPANSION BOLTS; TO METAL SURFACES WITH MACHINE SCREWS; AND TO WOOD WITH WOOD SCREWS. ANY FORM OF TIE WIRE IS UNACCEPTABLE.

- L. PROVIDE EXPANSION FITTINGS WHERE CONDUITS CROSS EXPANSION JOINTS. PROVIDE SLIP JOINTS AS NECESSARY FOR THERMAL EXPANSION AND CONTRACTION.

- M. CONDUIT TERMINATIONS AND CONDUIT STUBS SHALL HAVE INSULATING BUSHINGS.

- N. CONDUITS PASSING THROUGH BULKHEADS, CONCRETE WALLS, FLOORS OR FOOTINGS AND SLAB ON GRADE SHALL BE MADE WATERTIGHT. PROVIDE PIPE SLEEVES WITH ONE-HALF INCH MINIMUM CLEARANCE AROUND THE CONDUIT AND CAULK WITH ASKUM AND SEALANT.

- O. PROVIDE 12" MINIMUM SEPARATION BETWEEN ELECTRICAL DUCT AND OTHER UTILITIES.

- P. UNDERGROUND CONDUITS SHALL HAVE RIGID GALVANIZED STEEL ELBOWS.

5. WIRING REQUIREMENTS:

- P. THE ENTIRE WIRING SYSTEM SHALL BE TESTED FOR SHORT CIRCUITS, GROUNDS AND INSULATION RESISTANCE BETWEEN CONDUCTORS AND TO GROUND PRIOR TO COMPLETION OF PROJECT.
- Q. WIRE AND CABLE SHALL BE INSTALLED IN CONDUIT EXCEPT AS SPECIFICALLY INDICATED OTHERWISE.
- R. WIRE AND CABLE SHALL BE COPPER, 600 VOLT INSULATION, MINIMUM SIZE NO. 12. TYPE "THWN" OR "XHHW" AS APPLICABLE, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- S. WIRES NO. 10 AND 12 AWG SHALL BE CONNECTED WITH COIL SPRING INSERT "WIRE-NUT" OR "WING-NUT" CONNECTORS MANUFACTURED BY IDEAL INDUSTRIES OR APPROVED EQUAL. CONNECTORS SHALL BE RATED 600 VOLTS.
- T. WIRE SHALL BE COLOR CODED AS FOLLOWS:

480Y/277V SYSTEM	208Y/120V SYSTEM	120/240V 1 PH SYSTEM
PH A - BRN	PH A - BLK	PH A - BLK
PH B - ORN	PH B - RED	PH B - RED
PH C - YEL	PH C - BLU	
NEUT - GRN	NEUT - WHT	NEUT - WHT W/GRY STRIPE
GND - GRN W/YEL STRIPE	GND - GRN	GND - GRN W/WHT STRIPE

6. PULL BOX REQUIREMENTS

- A. LANDSIDE PULL BOXES SHALL BE FIBER REINFORCED CONCRETE, TIER 22, UON. MARK COVERS PERMANENTLY WITH "ELECTRICAL" OR "COMMUNICATIONS", AS REQUIRED.
- B. WHERE SEVERAL FEEDERS PASS THROUGH A COMMON PULL BOX OR JUNCTION BOX, THE FEEDERS SHALL BE TAGGED TO INDICATE CLEARLY THEIR ELECTRICAL CHARACTERISTICS, CIRCUIT NUMBER, AND PANEL DESIGNATION. PAINT SAME INFORMATION ON COVER OF THE BOX.

CABLE DESIGNATION

101

CABLE NUMBER CALLOUT

NOTE:

1. DESIGNATION FOR CABLE NUMBERS ARE TO DEFINE CABLE AND CONDUIT SIZE OF CIRCUIT. WHERE SHOWN BESIDE A BUILDING OR DEVICE IT INDICATES THAT PARTICULAR CIRCUIT TERMINATES WITHIN THAT BUILDING OR DEVICE.
2. REFER TO CABLE SCHEDULES (E-601) TO DEFINE TERMINATION POINTS, CONDUIT, AND WIRE SIZE OF ALL CABLE NUMBERS.
3. REFER TO PANEL SCHEDULES FOR ADDITIONAL CLARIFICATION OF CABLE SCHEDULE TERMINATION POINTS.

(CONTINUES NEXT SHEET)

HILLSBOROUGH COUNTY SHERIFF'S OFFICE

ELECTRICAL NOTES (1 OF 2)

1101 CHANNELSIDE DRIVE TAMPA, FL 33602 TELEPHONE: 813-905-7678



PORT TAMPA BAY

SEAL



DRAWN: JB

DATE: 2014.2.14

CHECKED: DS

DATE: 2014.2.14

APPROVED: MAP

DATE: 2014.2.14

PTB PROJECT FILE

3810-02

SCALE: AS SHOWN

PTB ORG NO: 3810-0220

SHEET NO:

E-001

Sheet 20 of 25

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ELECTRICAL GENERAL NOTES (CONTINUED)

7. JUNCTION BOX REQUIREMENTS
- A. OUTLET BOXES SHALL BE STAINLESS STEEL AS NECESSARY WITH STANDARD KNOCKOUTS AS REQUIRED FOR CONDUIT TERMINATION. MINIMUM SIZE OF OUTLET BOX SHALL BE FOUR INCHES SQUARE, ONE AND ONE-QUARTER INCHES DEEP.
- B. OUTLET BOXES OCCURRING IN WET AREAS SHALL BE CAST AND PROVIDED WITH GASKETS BETWEEN BOX AND WATERPROOF COVER.
8. WRING DEVICES (CONVENIENCE OUTLETS, LIGHT SWITCHES, ETC)
- A. WRING DEVICES SHALL BE SPECIFICATION GRADE IN BROWN FINISH.
- B. CONVENIENCE OUTLETS SHALL BE PROTECTED BY GROUND FAULT INTERRUPTER DEVICES.
- C. DEVICE PLATES SHALL BE PVC WEATHER PROTECTED COVERS IN EXTERIOR LOCATIONS AND STEEL IN INTERIOR LOCATIONS.
9. DISCONNECT SWITCHES
- A. SWITCHES SHALL BE NEMA TYPE "HD". FUSED SWITCHES SHALL BE NEMA TYPE "HD" UNLESS OTHERWISE INDICATED, WITH CLASS "R" FUSE CLIPS. MAIN DISCONNECT SWITCHES AND SWITCHES RATED 600 VOLTS SHALL BE TYPE "HD" AND HAVE FULL COVER INTERLOCKS AND QUICK-MAKE, QUICK-BREAK MECHANISM.
- B. FUSED SWITCHES SHALL BE PROVIDED COMPLETE WITH FUSES. ENCLOSURES SHALL BE NEMA 3R.
- C. SWITCHES SHALL BE SQUARE D OR APPROVED EQUAL.
- D. SWITCHES SHALL BE SECURELY MOUNTED TO WALL, STRUCTURE, OR EQUIPMENT. PROVIDE MISCELLANEOUS ACCESSORIES FOR MOUNTING SWITCHES, INCLUDING STEEL ANGLES WHERE REQUIRED.
- E. FUSES FOR PROTECTION OF MECHANICAL AND PLUMBING EQUIPMENT SHALL BE "FUSETRON" UL CLASS "RK5" SIZED PER MANUFACTURER'S RECOMMENDATION, UNLESS OTHERWISE INDICATED.
10. PANELBOARDS
- A. PANELBOARDS SHALL BE CIRCUIT BREAKER TYPE AS INDICATED. PANELS SHALL BE KEYEDED ALIKE AND SHALL HAVE A MINIMUM 20 INCH WIDE ENCLOSURE. A DIRECTORY, COMPLETELY TYPED TO IDENTIFY CIRCUITS, WITH TRANSPARENT PROTECTOR SHALL BE PROVIDED IN EACH PANEL.
- B. PANELBOARDS SHALL BE PROVIDED WITH COPPER PHASE, NEUTRAL AND GROUND BUSES.
- C. SUB-FEED BREAKER SHALL NOT BE ACCEPTABLE UNLESS INDICATED.
- D. BREAKER ARRANGEMENT SHALL BE AS INDICATED.
- E. PANELBOARDS SHALL BE SQUARE D OR APPROVED EQUAL.
- F. PANELBOARDS IN EXTERIOR LOCATIONS SHALL BE ENCLOSED IN A NEMA 3R ENCLOSURE.
- G. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. PLUG-IN BREAKERS SHALL NOT BE ACCEPTABLE UNLESS INDICATED.
11. DRY TYPE TRANSFORMERS
- A. DRY TYPE TRANSFORMERS SHALL BE IN ACCORDANCE WITH NEMA STANDARDS. KVA RATINGS AND MOUNTING SHALL BE AS INDICATED. TRANSFORMER PRIMARY VOLTAGE AND SECONDARY VOLTAGE SHALL BE AS INDICATED. INSULATION SHALL BE EQUAL TO THE PRIMARY VOLTAGE AS A MINIMUM BUT NOT LESS THAN THE INDUSTRY STANDARD FOR THE VOLTAGES, RATED 80 DEGREES CENTIGRADE WITH 220 DEGREES CENTIGRADE INSULATION. TRANSFORMERS, 30 KVA AND LARGER, SHALL HAVE FOUR TWO AND ONE-HALF PERCENT TAPS BELOW AND TWO, TWO AND ONE-HALF PERCENT ABOVE NORMAL PRIMARY VOLTAGE; AND 15 KVA TRANSFORMERS AND SMALLER SHALL HAVE TWO, TWO AND ONE-HALF PERCENT TAPS BELOW AND TWO, TWO AND ONE-HALF PERCENT TAPS ABOVE NORMAL PRIMARY VOLTAGE. TRANSFORMERS SHALL BE QUIET TYPE WITH NOISE LEVEL BELOW 45 DECIBELS. PROVIDE TRANSFORMERS WITH "KINETICS" MODEL "N", FIBERGLASS ISOLATORS OR EQUAL. TRANSFORMERS SHALL BE AS MANUFACTURED BY SQUARE D OR EQUAL. TRANSFORMERS SHALL BE ENCAPSULATED TYPE WITH STAINLESS STEEL NEMA 3R ENCLOSURE.
12. LIGHTING FIXTURES
- A. LIGHTING FIXTURES SHALL BE PROVIDED COMPLETE WITH ALL MOUNTING HARDWARE AND ACCESSORIES.

AS AN ALTERNATE SERVICE, PROVIDE A COST ITEM TO PROVIDE NEMA 4X ENCLOSURES IN LIEU OF NEMA 3R ENCLOSURES (PANELS, DISCONNECTS, ETC.)

HILLSBOROUGH COUNTY SHERIFF'S OFFICE

ELECTRICAL NOTES (2 OF 2)



DRAWN: JB
DATE: 2014.2.14

CHECKED: DS
DATE: 2014.2.14

APPROVED: MAP
DATE: 2014.2.14

PTB PROJECT NO.: 3810-02

SCALE: AS SHOWN

PTB DRAWING NO.: 3810-02021

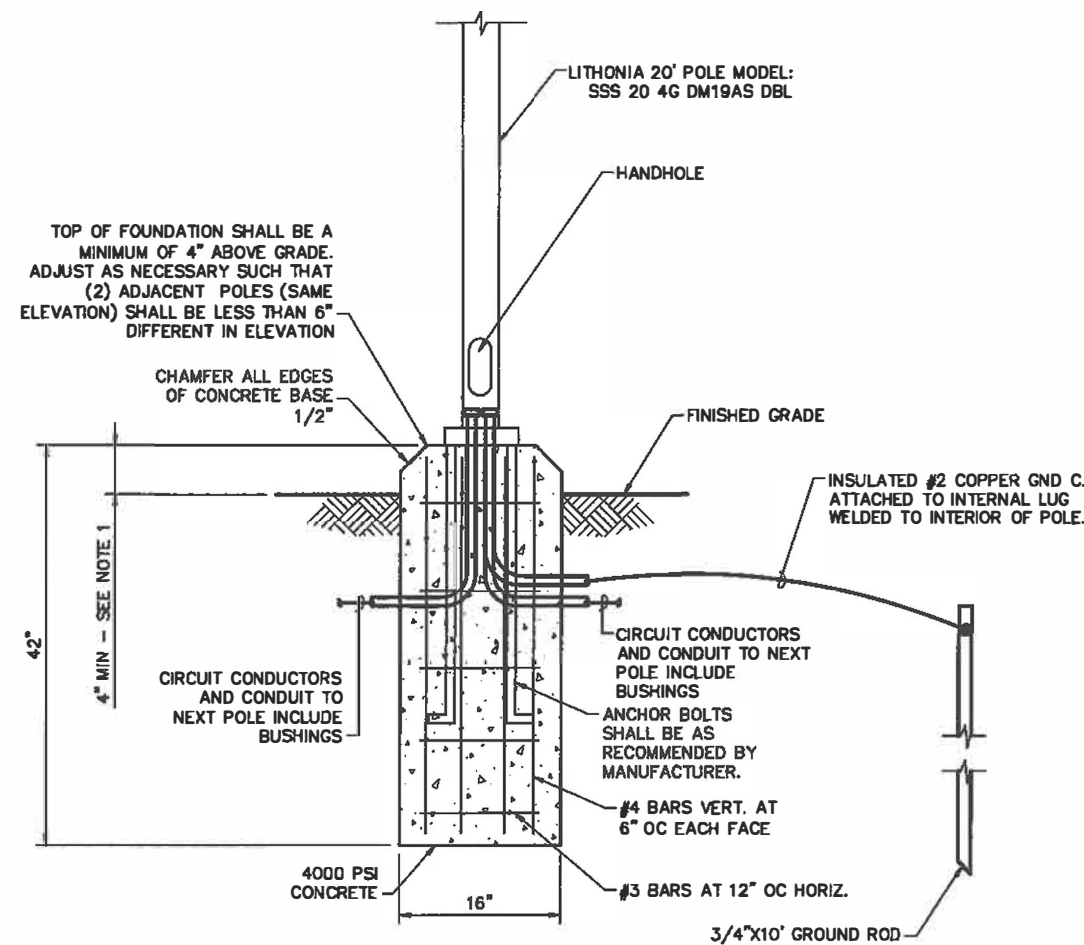
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DATE: 21.05.20

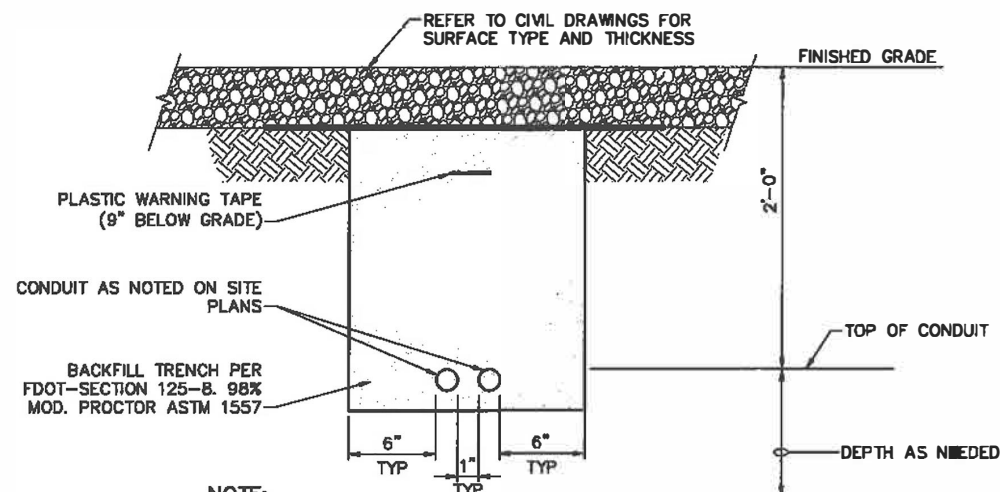
TELEPHONE: 813-905-7678

1101 CHANNELSIDE DRIVE TAMPA, FL 33602

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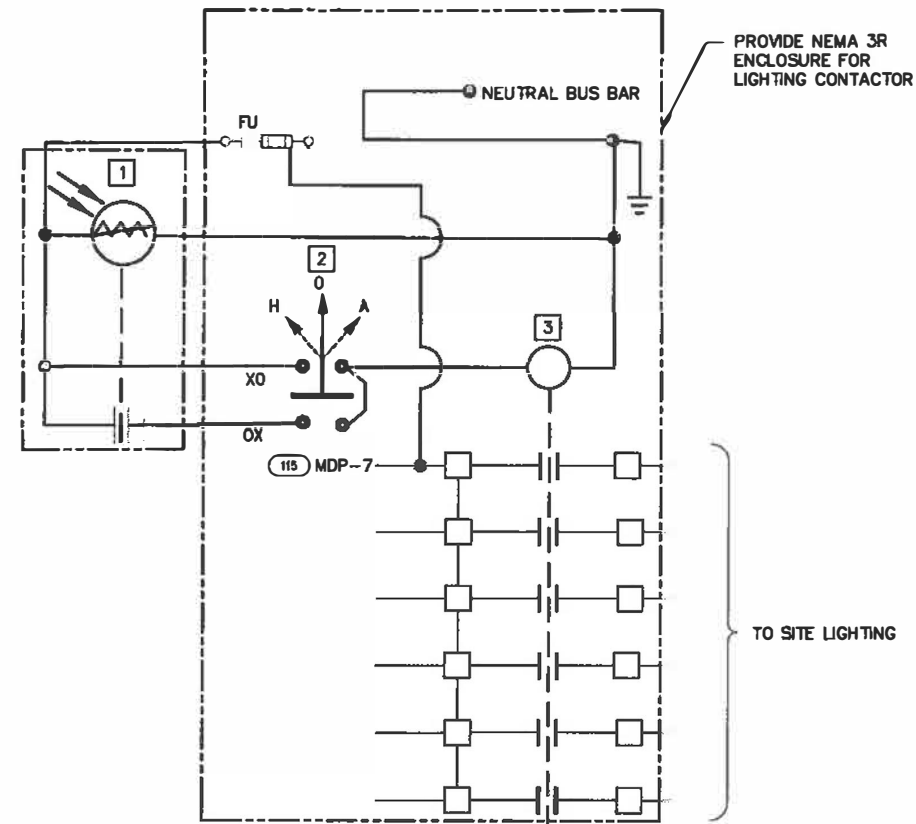


B1 DETAIL - LIGHT POLE BASE
E-501 SCALE: NTS



NOTE:
1. FOR CONDUIT QUANTITY AND SIZES REFER TO CABLE SCHEDULE.

A1 SECTION - UNDERGROUND ELECTRICAL CONDUIT
E-101 SCALE: NTS



ITEM	DESCRIPTION
1	TWIST LOCK PHOTO CELL, NEMA 3R, 120V. MOUNT ON CONTACTOR ENCLOSURE (POINTING NORTH). PROVIDE LIGHT SHIELD AND ADJUST AS REQUIRED TO AVOID ANY ARTIFICIAL LIGHT SOURCES AND TO ALLOW PROPER OPERATION OF PHOTO CELL
2	"HAND-OFF-AUTO" 3-POSITION SELECTOR SWITCH, 120V. PROVIDE ENGRAVED NAMEPLATE
3	LIGHTING CONTACTOR - 277V, 30 AMPS, 6 POLES, 120 VAC COIL, SQUARE-D MFG OR APPROVED EQUAL, ELECTRICALLY HELD

B4 LIGHTING CONTACTOR DETAIL
E-501 SCALE: NTS

HILLSBOROUGH COUNTY SHERIFF'S OFFICE

ELECTRICAL DETAILS

1101 CHANNELSIDE DRIVE TAMPA, FL 33602 TELEPHONE: 813-905-7678

PORT TAMPA BAY

SEAL

motatt & nichol

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DATE: 2014.2.14

PTB PROJECT NO.:
3810-02

SCALE:
AS SHOWN

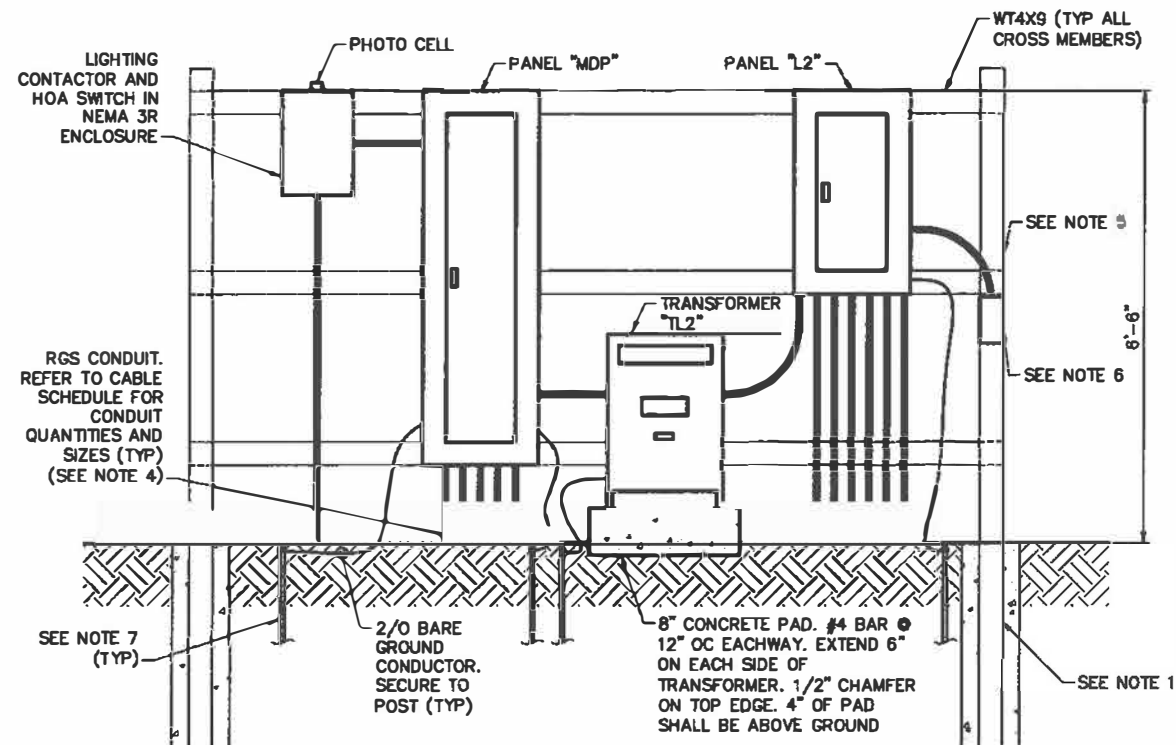
PTB DRWG NO.:
3810-0223

SHEET NO.:
E-501

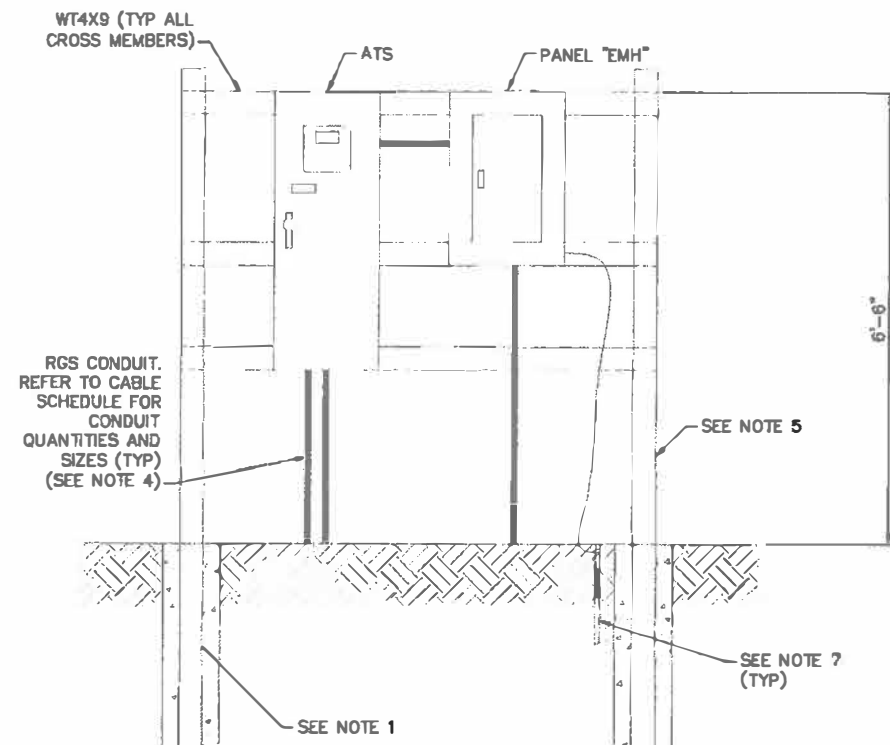
Sheet 25 of 28

PORT TAMPA BAY

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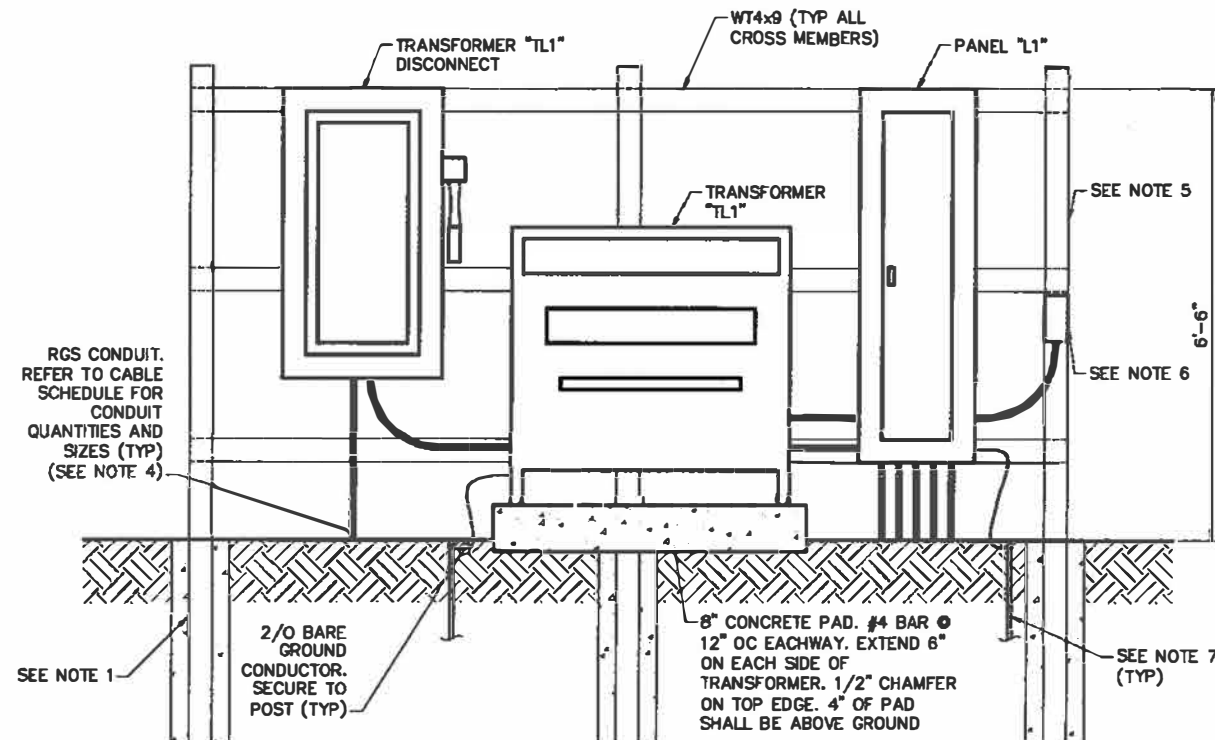


C1 DETAIL - SERVICE ENTRANCE ELEVATION
E-101 SCALE: NTS



C4 DETAIL - FUTURE PANEL "EMH" AND ATS
E-101 SCALE: NTS

- NOTES**
1. EXTEND 5'-0" INTO GROUND, PROVIDE 3" MIN CONCRETE ENCASEMENT OF STEEL SUPPORT UNDERGROUND. PAINT SUPPORT ASSEMBLY WITH (2) COATS OF ZINC RICH PRIMER AND FINISH WITH (2) COATS OF PAINT.
 2. PROVIDE GROUND BUSHINGS ON ALL CONDUITS.
 3. REFER TO SINGLE LINE AND PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
 4. TRANSITION FROM PVC TO RGS CONDUIT UNDERGROUND PRIOR TO CONDUIT ELBOW.
 5. 6" STEEL PIPE FILLED WITH CONCRETE PAINT WITH (2) COATS OF ZINC PRIMER AND (2) FINISH COATS.
 6. PROVIDE 120V, 20A WEATHERPROOF GFI RECEPTACLE. SEE PANEL SCHEDULE FOR WIRE AND CONDUIT SIZE.
 7. CONNECT EACH PANEL AND TRANSFORMER TO ATLEAST 2 GROUND RODS WITH 6' SEPERATION.



A3 DETAIL -PRE-FABRICATED BUILDING SERVICE
E-101 SCALE: NTS

REVISION DESCRIPTION		DATE	BY
1	ISSUED FOR PERMIT	2014.2.14	AS
2	REVISED PER COMMENTS	2014.2.14	DS
3	REVISED PER COMMENTS	2014.2.14	MAP
4	REVISED PER COMMENTS	2014.2.14	AS SHOWN

HILLSBOROUGH COUNTY SHERIFF'S OFFICE
ELECTRICAL DETAILS

1101 CHANNELSIDE DRIVE TAMPA, FL 33602 TELEPHONE: 813-905-7678

PORT TAMPA BAY

SEAL

moftatt & nichol

DRAWN: AS
DATE: 2014.2.14
CHECKED: DS
DATE: 2014.2.14
APPROVED: MAP
DATE: 2014.2.14
PTB PROJECT NO.: 5810-02
PTB DRAWING NO.: 5810-0224
SHEET NO.: E-502
Sheet 24 of 28

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PANEL: MDP		ENCLOSURE :NEMA 3R										VOLTAGE/PHASE : 277Y/480V 3 ϕ										FED FROM : TECO XFMR									
		BUS AMPS : 600A										SERVICE ENTRANCE RATED										22kAIC									
		MAIN BREAKER :																													
LOADS	SEE NOTE	OUTLETS	MISC	REC	LTG	VOLT-AMPS	A	B	C	CKT	BKR/POLE	A	B	C	BKR/POLE	A	B	C	LTG	REC	MISC	SEE NOTE	LOADS								
ATS						54187				1	250/2				2									SPACE							
						54187				3					4									XFMR TL1							
SITE LIGHTING						1500				5	20/1				6									SPACE							
SPARE										7	20/3				8									SPACE							
										9					10									XFMR TL2							
										11					12																
										13					14																
										15	20/3				16																
										17					18																
										19					20																
										21	20/1				22																
										23					24																
										25					26																
										27					28																
										29					30																
TOTAL A CONNECTED= 49,567		VOLT-AMPS																													
TOTAL B CONNECTED= 108,567		VOLT-AMPS																													
TOTAL C CONNECTED= 118,467		VOLT-AMPS																													
TOTAL CONNECTED= 272,601		VOLT-AMPS																													
DESIGN LOAD = 83.1 kVA (FUTURE PANEL)																															
TOTAL (DESIGN + CONNECTED) LOAD= 355.7 kVA @480V, 3PH = 428 AMPS																															

PANEL: EMH (FUTURE)		ENCLOSURE :NEMA 3R										VOLTAGE/PHASE : 277Y/480V 3 ϕ										FED FROM : ATS									
		BUS AMPS : 250A										22kAIC																			
		MAIN BREAKER :																													
LOADS	SEE NOTE	OUTLETS	MISC	REC	LTG	VOLT-AMPS	A	B	C	CKT	BKR/POLE	A	B	C	BKR/POLE	A	B	C	LTG	REC	MISC	SEE NOTE	LOADS								
ENL "EMH"	1					51240				1	225/2				2									SPACE							
						51240				3					4																
SPARE										5	20/1				6																
SPARE										7	20/1				8																
SPARE										9	20/3				10																
										11					12																
										13					14																
										15	20/3				16																
										17					18																
										19					20																
										21	20/1				22																
										23					24																
										25					26																
										27					28																
										29					30																
TOTAL A CONNECTED= 51,240		VOLT-AMPS																													
TOTAL B CONNECTED= 51,240		VOLT-AMPS																													
TOTAL C CONNECTED= 1,500		VOLT-AMPS																													
TOTAL CONNECTED LOAD= 104 kVA @480V, 3PH = 125 AMPS																															

PANEL: EML (FUTURE)		ENCLOSURE :STAINLESS STEEL NEMA 3R MARINE SUBSTATION										VOLTAGE/PHASE : 120/240V 1 ϕ BUS AMPS : 600A MAIN BREAKER : 600A										FED FROM : PANEL "EMH" 22kAIC									
LOADS		SEE NOTE	OUTLETS MISC REC LTG		VOLT-AMP A B		CKT	BKR/ POLE A B		BKR/ POLE		CKT	VOLT-AMP A B		OUTLETS LTG REC		MISC	SEE NOTE	LOADS												
POWER PEDESTAL 1		X				6000		1	60/2	*	60/2	2	6000					X		POWER PEDESTAL 5											
						6000		3		*		4		6000																	
POWER PEDESTAL 2		X				6000		5	60/2	*	60/2	6	6000					X		POWER PEDESTAL 6											
						6000		7		*		8		6000																	
POWER PEDESTAL 3		X				6000		9	60/2	*	40/2	10	3840					X		BOAT LIFT 5											
						6000		11		*		12		3840																	
POWER PEDESTAL 4		X				6000		13	60/2	*	40/2	14	3840					X		BOAT LIFT 6											
						6000		15		*		16		3840																	
BOAT LIFT 1		X				3840		17	40/2	*	40/2	18	3840					X		BOAT LIFT 7											
						3840		19		*		20		3840																	
BOAT LIFT 2		X				3840		21	40/2	*	40/2	22	3840					X		BOAT LIFT 8											
						3840		23		*		24		3840																	
BOAT LIFT 3		X				3840		25	40/2	*	20/1	26	1550		X					FUTURE DOCK LTG											
						3840		27		*	20/1	28		900		X				DOCK RECEPT											
BOAT LIFT 4		X				3840		29	40/2	*	20/1	30	1176							SPARE											
						3840		31		*	25/1	32		1656				X		FUTURE FUELING											
FUTURE DOCK LTG		X				1550		33	20/1	*	20/1	34	400					X		GEN. LTG/REC/HTR											
DOCK RECEPTACLE			X					35	20/1	*	20/1	36								SPARE											
SPARE								37	20/1	*	20/1	38								SPARE											
SPARE								39	20/1	*	20/1	40								SPARE											
SPARE								41	20/1	*	20/1	42								SPARE											
TOTAL A CONNECTED= 70.218 VOLT-AMPS TOTAL B CONNECTED= 69.996 VOLT-AMPS																															
TOTAL CONNECTED LOAD= 140 kVA																															
DESIGN LOAD= 72kVA (PEDESTALS) x 0.9 (DEMAND) =84.8 kVA 61.44 kVA (BOAT LIFTS) x 50% DIVERSITY = 30.72kVA																															
TOTAL DESIGN LOAD= 101 kVA @ 240V, 1PH = 427 AMPS																															
NOTES																															
1. PROVIDE CIRCUIT BREAKERS FOR ALL PHASE 1 AND FUTURE LOADS (INCLUDING POWER PEDESTALS AND BOAT LIFTS).																															