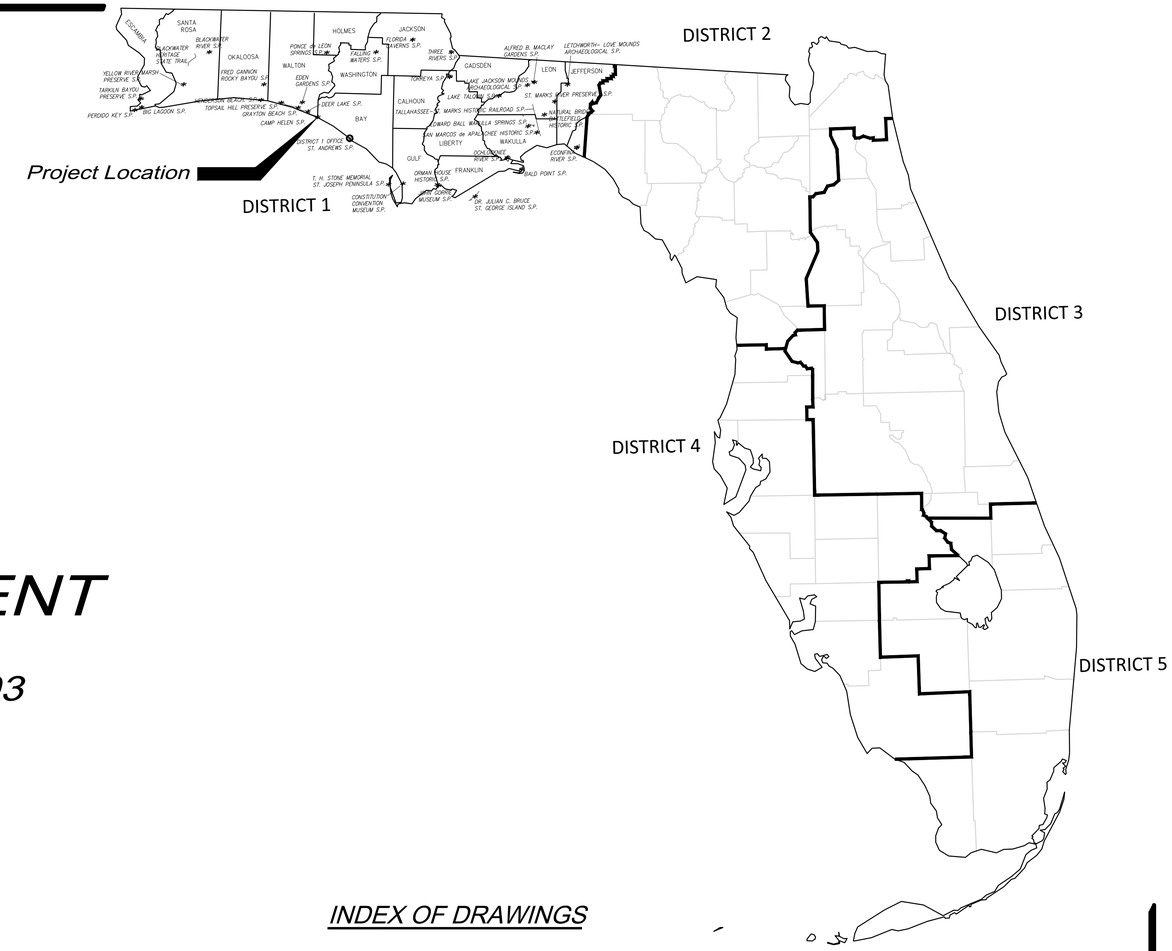
CAMP HELEN STATE PARK

DISTRICT 1

BAY COUNTY

PARK IMPROVEMENT

PROJECT # 61307C - N3803



ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.H.U.	AIR HANDLING UNIT
ALUM.	ALUMINUM
ALT.	ALTERNATE
APPROX.	APPROXIMATE
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BLT.	BUILT
BRK.	BRICK
BRKR.	BREAKER
BSMT.	BASEMENT
C.J.	CONTROL JOINT
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
CONC.	CONCRETE
CU	COPPER
CU. FT.	CUBIC FOOT
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DIA./Ø.	DIAMETER
DBL.	DOUBLE
DBT.	DRY-BULB TEMPERATURE
DEG.	DEGREE
DEPT.	DEPARTMENT
DF	DRINKING FOUNTAIN
DISC.	DISCONNECT
DL	DEAD LOAD
DN.	DOWN
D.S.	DOWN SPOUT
DWG.	DRAWING
E.F.	EXHAUST FAN
EXH.	EXHAUST
EXP. JT.	EXPANSION JOINT
EXT.	EXTERIOR
FIN	FINISH
FL.	FLOOR
FLUOR.	FLUORESCENT
FP	FIREPLACE
FR	FIRE RATING
FT.	FOOT/FEET
FTG.	FOOTING
GALV.	GALVANIZED
GFI	GROUND FAULT CIRCUIT INTERRUPT
GOV'T.	GOVERNMENT
GR.FL.	GROUND FLOOR
GYP.	GYPSUM
H.C.	HOLLOW CORE
H.D.G.	HOT DIPPED GALVANIZED
HDR.	HEADER
HDWR.	HARDWARE
H.P.	HORSEPOWER
HT.	HEIGHT
HTR	HEATER
HV.	HIGH VOLTAGE
HVAC.	HEATING, VENTILATING AND AIR CONDITIONING
HWY.	HIGHWAY
ID.	INSIDE DIAMETER
IN	INCH
INCAND.	INCANDESCENT
INCL.	INCLUDED
INSUL.	INSULATION
INT.	INTERIOR
INV. EL.	INVERT ELEVATION
JST.	JOIST
KD	KILN DRIED
KW.	KILOWATT
KWH	KILOWATT HOUR
LAM.	LAMINATED
LAV.	LAVATORY
LB.	POUND
LTG.	LIGHTING
LGTH.	LENGTH
LIN.	LINEAR
LL	LIVE LOAD
MANUF.	MANUFACTURE
MAX.	MAXIMUM
MF.	MILL FINISH
MIN.	MINIMUM
MLDG.	MOLDING
MHW.	MEAN HIGH WATER
MHHW.	MEAN HIGHER HIGH WATER
MLW.	MEAN LOW WATER
MLLW.	MEAN LOWER LOW WATER
MSL.	MEAN SEA LEVEL
MOD.	MODIFICATION
NTS.	NOT TO SCALE
NO./#.	NUMBER
OA.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFC.	OFFICE
O/H	OVER HEAD
OPP.	OPPOSITE
PARTN.	PARTITION
PC	PORTLAND CEMENT
PCF.	POUNDS PER CUBIC FOOT
P.E.	PROFESSIONAL ENGINEER
PERF.	PERFORATE
PERP.	PERPENDICULAR
PL.	PLATE
PLG.	PILING
PLYWD.	PLYWOOD
PNL.	PANEL
PREFAB.	PREFABRICATED
PRELIM.	PRELIMINARY
PSF.	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
QS.	QUARTER SAWN
R	RADIUS
RCPT.	RECEPTACLE
REBAR.	REINFORCING BAR
REFRIG.	REFRIGERATION
REINF.	REINFORCING
RFG.	ROOFING
RGH.	ROUGH
RM.	ROOM
R.O.	ROUGH OPENING
RS	ROUGH SAWN
S.C.	SOLID CORE
SCH.	SCHEDULE
SDG.	SIDING
SECT.	SECTION
SFTWD.	SOFTWOOD
SGD.	SLIDING GLASS DOOR
SH.	SHINGLES
SPEC.	SPECIFICATION
SPR.	SPRUCE
SQ.	SQUARE
SQ. FT.	SQUARE FOOT
SQ. IN.	SQUARE INCH
SQ. YD.	SQUARE YARD
SS.	STAINLESS STEEL
STL.	STEEL
SUB. FL.	SUBFLOOR
SUP.	SUPPLY
SW.	SWITCH
SYM.	SYMMETRICAL
S.Y.P.	SOUTHERN YELLOW PINE
SYS.	SYSTEM
S4S.	SURFACED FOUR SIDES
TEL.	TELEPHONE
T&G.	TONGUE-AND-GROOVE
TYP.	TYPICAL
U.E.	UNDERGROUND ELECTRIC
U.G.	UNDER GROUND
UL.	UNDERWRITERS LABORATORIES, INC.
V.	VOLT
VENT.	VENTILATOR
VERT.	VERTICAL
VIF.	VERIFY IN FIELD
VOL.	VOLUME
VP.	VENT PIPE
VTR.	VENT THRU ROOF
W.	WATER
WBT.	WET BULB TEMPERATURE
WC.	WATER CLOSET
WD	WOOD
WP.	WATERPROOF
WWF.	WELDED WIRE FABRIC
YD.	YARD

REFERENCE LEGEND

G8 / A502 — SECTION IDENTIFICATION / SHEET NUMBER

G8 / A502 — DETAIL IDENTIFICATION / SHEET NUMBER

APPLICABLE CODES AND DESIGN DATA

CODE LIST

FLORIDA BUILDING CODE, BUILDING (FBC-B)	2023 Edition
FLORIDA BUILDING CODE, FUEL GAS (FBC-FG)	2023 Edition
FLORIDA BUILDING CODE, MECHANICAL (FBC-M)	2023 Edition
FLORIDA BUILDING CODE, PLUMBING (FBC-P)	2023 Edition
FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB)	2023 Edition
FLORIDA BUILDING CODE, RESIDENTIAL (FBC-R)	2023 Edition
FLORIDA FIRE PREVENTION CODE (FFPC)	Latest Edition
NATIONAL ELECTRICAL CODE NFPA-70	Latest Edition
FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONST.	Latest Edition
FDOT STANDARD PLANS FOR ROAD CONST.	Latest Edition
FLORIDA ACCESSIBILITY CODE	2023 Edition

SEE LS001 FOR DESIGN DATA

Digitally signed by JAMES H PETERSON
Date: 2025.04.24 17:09:08-04'00'

JAMES H. PETERSON LICENSE No 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER

GEORGE & ASSOCIATES CONSULTING ENGINEERS, INC.
1967 COMMONWEALTH LANE, SUITE 200
TALLAHASSEE, FL 32303
CERTIFICATE OF AUTHORIZATION: 7879
JAMES H. PETERSON, P.E. NO. 80485

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JAMES H. PETERSON, P.E. ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SCOPE OF PROJECT

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION, AND PERMITTING TO SUCCESSFULLY CONSTRUCT ROADWAY ALTERATIONS, NEW DRIVEWAY, ENTERANCE PARKING AREA, RESTROOM, PAVILIONS, ADA ACCESSIBLE WALKWAYS, RAMPS, STAIRWAY, ADA ACCESSIBLE CANOE/KAYAK LAUNCH, AND ANY OTHER SITE WORK PER THE CONTRACT DOCUMENTS.

THE CONSTRUCTION OF A DAY-USE RESTROOM FACILITY CONSISTING OF 650 GSF OF ENCLOSED AREA INCLUDING A MEN'S RESTROOM, WOMEN'S RESTROOM, UNISEX RESTROOM AND CHASE AREA. THESE AREAS ARE NATURALLY VENTILATED. AN OPEN BREEZEWAY SHELTERS A VENDING AREA, THE ENTRANCES INTO THE RESTROOMS, AND A HIGH-LOW WATER FOUNTAIN. ALL WORK MUST BE PERFORMED PER CODE. ADA COMPLIANCE MUST BE MAINTAINED.

JAMES H. PETERSON IV, P.E.
DESIGNER

CN539-TA01
CONSULTANT CONTRACT No.

FEBRUARY 14, 2025 100% PLANS
INITIAL ISSUE DATE

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE
G001	COVER PAGE
LS001	EGRESS PLANS
A001	LEGENDS & LOUVER DETAILS
A101	FLOOR & REFLECTED CEILING PLAN
A102	ROOF PLAN
A201	EXTERIOR ELEVATIONS
A301	BUILDING SECTIONS
A302-303	WALL SECTIONS
A401	ENLARGED PLAN
A402-403	INTERIOR ELEVATIONS
A601	SCHEDULES
C003	GENERAL NOTES
C004	PROJECT LOCATION MAP
C005	TYPICAL SECTIONS
C201-202	DEMOLITION & EROSION CONTROL PLAN
C301	SITE PLAN NORTH SIDE PICNIC AREA
C302	PROPOSED UTILITY PLAN NORTH SIDE PICNIC AREA
C303	DRIVEWAY PLAN & PROFILE
C304	SITE PLAN TURN LANES
C305	ADA KAYAK LAUNCH PLAN & PROFILE
C306	LANDSCAPE PLAN
C401	NORTH PICNIC AREA GRADING PLAN
C402	NORTH PARKING LOT GRADING PLAN
C403	NORTH DRIVEWAY GRADING PLAN
C404	ADA KAYAK LAUNCH GRADING PLAN
C405-406	EAST BOUND TURN LANE CROSS SECTIONS
C407-408	WEST BOUND TURN LANE CROSS SECTIONS
C409	MULTI-USE PATH CROSS SECTIONS
C410	CONCRETE PATH EXTENSION CROSS SECTIONS
C501	DRAINAGE PLAN TURN LANES
C601-602	TURN LANE UTILITY PLAN
C701	SIGNAGE & PAVEMENT MARKING PLAN
C801-802	TRAFFIC CONTROL PLAN
C901-903	CONSTRUCTION DETAILS
C904	EROSION CONTROL DETAILS
S000	COVER SHEET
S100	ABBREVIATIONS & SYMBOLS
S101-S102	STRUCTURAL NOTES
S103	STRUCTURAL PLAN SPECIFICATION
S111	WIND DIAGRAMS
S201	RESTROOM GROUND & ROOF FRAMING PLANS AT PICNIC AREA
S202	SITE RAMPS & STAIRS AT PICNIC AREA
S203	RAMP PILE LAYOUT AT PICNIC AREA
S204	KAYAK LAUNCH
S301	TYPICAL BUILDING SECTIONS
S302-303	RAMP SECTIONS
S401-402	TYPICAL SCHEDULE
S511	TYPICAL FOUNDATIONS & SLAB ON GRADE DETAILS
S521	TYPICAL MASONRY DETAILS
S701-702	TYPICAL WOOD DETAILS
S907	WOOD DOCK & DECK DETAILS
M100	MECHANICAL NOTES, SCHEDULE, & PLAN
E100	GENERAL NOTES AND LEGEND
E101	DETAILS AND SCHEDULES
E200	SITE PLAN AND ONE LINE
E300	POWER & LIGHTING ENLARGED PLANS
P100-101	PLUMBING NOTES AND LEGEND
P200	PLUMBING NEW WORK PLAN
P300	PLUMBING DETAILS
P400	PLUMBING RISERS

CAMP HELEN STATE PARK
PARK IMPROVEMENT

Florida Department of Environmental Protection

Division of Recreation and Parks Bureau of Design and Construction

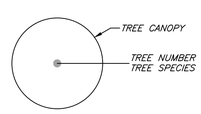
GENERAL NOTES

A	Area or Amperes
AAA	American Automobile Association
ABC	Asphalt Base Course
Abd.	Abandoned
ABS	Acrylonitrile-Butadiene-Styrene Pipe
AC, Ac.	Acre
Asph. Conc.	Asphaltic Concrete
Accel.	Acceleration
Act.	Actuated
ADA	The Americans With Disabilities Act
Adh.	Adhesive
Adj.	Adjust
ADT	Average Daily Traffic
AADT	Annual Average Daily Traffic
Agg.	Aggregate
AISC	American Institute Of Steel Construction
Alt.	Alternate
Al.	Aluminum
ANSI	American National Standards Institute
AOS	Apparent Opening Size
Appl.	Applied, Application
Approx.	Approximate
Artf.	Artificial
Asph.	Asphalt
Assem.	Assembly
Assn.	Association
Assoc.	Associate, Association
ASTM	American Society For Testing Materials
ATPB	Asphalt Treated Permeable Base
Attn.	Attention
Attnuatr.	Attenuator
Aux.	Auxiliary
Ave.	Avenue
AWG	American Wire Gauge
AWS	American Welding Society
Az.	Azimuth
B to B	Back to Back
Bd. or Bnd.	Bond or Bonded
BE	Buried Electric
Beg.	Begin
Bit.	Bituminous
Blk.	Back
BL, BLC	Base Line, Base Line Control
Bldg.	Building
Blkhd.	Bulkhead
Blvd.	Boulevard
BM	Bench Mark
Bndry.	Boundary
Bdr.	Border
Bot.	Bottom
BO	Basin Outlet
BOS	Beginning Of Survey
Br.	Bridge
Brg.	Bearing
Brkwy.	Breakaway
BT	Buried Telephone Cable or Duct
BW	Barbed Wire, Bottom Width or Both Ways
C/G	Curb And Gutter
CA	Coarse Aggregate
Cap.	Capacity
CAP	Corrugated Aluminum Pipe
Caps.	Capital Letters
CASP	Corrugated Aluminized Steel Pipe
CATV	Cable Television
CB	Catch Basin
CBC	Concrete Box Culvert
CBS	Concrete Box Structure
CC, C/C,	Center to Center, Crash Cushion
CCEW	Center to Center Each Way
CD	Cross Drain, Cross Direction (Geotextiles)
Cem.	Cemetery
CFS	Cubic Feet Per Second
CI	Cast Iron
CIP	Cast Iron Pipe
CIPL	Cast In Place
cir. or circ.	Circle or Circular
circ.	Circumference
Cl. or Clear	Clearance
CL, L	Center Line
CM	Concrete Monument
CMB	Concrete Median Barrier
CMP	Corrugated Metal Pipe
CMPA	Corrugated Metal Pipe Arch
CO	Clean Out
Col.	Column
Conc.	Concrete
Const.	Construct or Construction
Cont.	Continuation
Contr.	Contractor
Coord.	Coordinate
Corr.	Corrugated
CP	Concrete Pipe
CPE	Corrugated Polyethylene Pipe
Crs. or Cse.	Course
CS	Curve To Spiral
CSP	Corrugated Steel Pipe
CT	Clear Trunk
CTPB	Cement Treated Permeable Base
Ctr.	Center
Culv.	Culvert
CY	Cubic Yard
D	Degree Of Curvature, Depth, Density, Distance, Diameter or Directional Distribution
DA	Deflection Angle
DBH	Diameter At Breast Height
Dbl.	Double
DCS	Degree Of Curvature (Spiral)
DD	Dry Density / Design Document
Deg.	Degree
Dept.	Department
Det.	Detour, Detection, Detectable
DGN or Dgn.	Design
DHV	Design Hourly Volume
DHW	Design High Water
Dia. or D	Diameter
Dim.	Dimension
Dist.	Distance
Disp.	Disposal
DOT	Department Of Transportation
DR	Design Review
Driv.	Driven
Drwy.	Driveway
DS	Design Speed
DSL	Design Service Life
Dwg.	Drawing
E	East or External Distance
e	Rate Of Superelevation
E to E	End to End
EA or Ea.	Each
EB	Eastbound
El. or Elev.	Elevation
Elec.	Electric
Ellip.	Elliptical
Engr.	Engineer
EOS	End Of Survey or Equivalent Opening Size
EOP	Edge Of Pavement
Eq.	Equation or Equal
Equip.	Equipment
Esmt.	Easement
Exist.	Existing
Exp.	Expansion
F or Final	Final Quantity
F & I	Furnish & Install
F to F	Face to Face
FA	Federal Aid or Fine Aggregate
FAC	Florida Administrative Code
FAP	Federal Aid Project
FC	Friction Course
FD	French Drain
Fdn.	Foundation
FFE	Finish Floor Elevation
Fed.	Federal
Fert.	Fertilizer
FES	Flared End Section
FETS	Flared End Terminal Section
FH	Fire Hydrant
FHWA	Federal Highway Administration

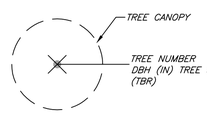
Fig.	Figure
Fin.	Finish
FIR	Found Iron Rod
FIP	Found Iron Pipe
Flex.	Flexible
FNC	Found Nail & Cap
FNL	Found Nail
FOC	Fiber Optics Cable
FPM or fpm	Feet Per Minute
FRP	Fiber Reinforced Pipe
FPS or fps	Feet Per Second
FR or Fr.	Frame
Frang.	Frangible
Freq.	Frequency
FS, F.S.	For Site, Florida Statutes
Ft.	Foot or Feet
FTB	Floating Turbidity Barrier
Fut.	Future
Galv.	Galvanized
Ga.	Gauge or Gage
Ga. / Gal.	Gallon
GD	Gutter Drain
GIP	Galvanized Iron Pipe
GM	Gas Main
GP	Grade Point
Gr.	Grade, Guardrail or Grate
Gr. or Gro.	Gross
GRC	Galvanized Rigid Steel Conduit
Grd.	Ground
gross km	Gross Kilometer
Gr. Wt.	Gross Weight
Gttr.	Gutter
Gy	Gray
HAR	Highway Advisory Radio
HB	Hay Bales
HC	Horizontal Clearance
HD	High Density or Heavy Duty
HD or Hd.	Head
Hdwl.	Headwall
Hndrl	Handrail
Horiz.	Horizontal
HP	High Pressure or Horsepower
Hr.	Hour
HS	High Strength
HSHV	High Strength Horizontal Vertical
Ht.	Height
HW or H.W.	High Water or Hot Water
Hwy.	Highway
Hyd.	Hydrant or Hydraulic
ID	Inside Diameter or Identification
IMC	Intermediate Metal Conduit
Inc.	Incorporated or Including
Incl. or Inc.	Included
Ind.	Industry or Industrial
INV. or Inv.	Invert
IP	Iron Pipe
Install.	Installed
Isect.	Intersection
Isl.	Island
IR	Iron Rod
ITE	Institute Of Transportation Engineers
J	Joule
JB	Junction Box
Jct.	Junction
Jt.	Joint
K	Design Hour Factor or Kelvin
kg/m	Kilogram Per Meter
kg/m2	Kilogram Per Square Meter
kg/m3	Kilogram Per Cubic Meter
Kilo	One Thousand
Kip	1000 Pounds
kn	Knot
L	Length, Length Of Curve, Liter, Left
Lat.	Lateral or Latitude
Lb.	Pound
lb/sy	Pounds Per Square Yard
LBR	Limerock Bearing Ratio
LC	Long Chord
Lin.	Linear
lm	Lumen
Lmrk.	Limerock
LOS	Limit Of Clear Sight
Loc., LO	Location
Long.	Longitude
LS	Length Of Spiral
LT	Left Turn
Lt.	Left
Ltd.	Lighted or Limited
Lum.	Luminaire
L/W	Lightweight
Maint.	Maintenance
Matl.	Material
Max.	Maximum
Med.	Median
MES	Mitered End Section
Mfg.	Manufactured or Manufacturer
MH, M.H.	Manhole, Mounting Height
MHW	Mean High Water
Mi.	Mile
Mid.	Middle
Min.	Minimum or Minute
Misc.	Miscellaneous
MLW	Mean Low Water
Mobl.	Mobilization
Mod.	Modify or Modified
Mon.	Monument
MOT	Maintenance Of Traffic
MSL	Mean Sea Level
Mtd.	Mounted
MUTCD	Manual On Uniform Traffic Control Device
MUTS	Manual On Uniform Traffic Studies
N	North or Newton
NA or N/A	Not Available or Not Applicable
NAVD	National American Vertical Datum
NC	National Coarse or Normal Crown
NEMA	National Electrical Manufacturers Association
NGVD	National Geodetic Vertical Datum of 1929
NGS	National Geodetic Survey
NHS	National Highway System
NHW	Normal High Water
NIC	Not In Contract
NTS	Not To Scale
NW	Northwest
Opass	Overpass
O to O,	Out to Out
OA	Overall
O.B.G.	Optional Base Group
OC or O.C.	On Center
OD or O.D.	Outside Diameter
OE	Overhead Electric
OHL	Overhead
Opt.	Option, Optional or Optically
OT	Overhead Telephone
Oz.	Ounce
P	Passenger Car & Light Delivery Truck
Part.	Participation or Partition
Pavt.	Pavement
PC	Point Of Curvature
PE	Professional Engineer
Ped	Pedestrian or Pedestal
Pen.	Penetration
PG	Profile Grade
PGL	Profile Grade Line
pH	Measure Of Acidity or Alkalinity
PI	Point Of Intersection
PL or P L	Property Line or Plate
POB	Point of Beginning
POC	Point Of Commencement
POST	Point On Semi-Tangent
POT	Point On Tangent
PRC	Point Of Reverse Curvature
Prest.	Prestressed
Prob.	Probability
Prod.	Product, Production, Producer or Produced

Prog.	Program or Progression
Proj.	Project or Projection
PS & E	Plans, Specifications And Estimates
PT	Point Of Tangency or Pressure Treated
PVC	Polyvinyl Chloride
PRC	Point Of Reverse Curvature
Prcst.	Precast
Prest.	Prestressed
Proj.	Project or Projection
Q	Peak Discharge or Flow Volume
QPL	Qualified Products List
R	Right
R or Rad.	Radius
R or Rng.	Range
RC	Reverse Crown
RCP	Reinforced Concrete Pipe
RCPA	Reinforced Concrete Pipe Arch
Rd.	Road or Round
Rdsd.	Roadside
Rdwy.	Roadway
Recl.	Reticuline or Rectangular
Ref.	Reference
Reg.	Region, Regular, Registered or Regulation
Reinf.	Reinforced or Reinforcing
Relocc.	Relocated
Req.	Required
RPM	Raised Reflective Pavement Markers
r/s	Revolution Per Second
RR	Railroad
Rt.	Right
R/W, ROW	Right Of Way
S or s	Speed, South, Seimens, Or Second
SAN or San.	Sanitary
Sch.	Schedule
SCST	Sand-Clay Surface Treatment
SD	Side Drain, Storm Drain
SE	Southeast
Seq.	Sequential
Serv.	Service
SF	Silt Fence
Sht.	Sheet
Shldr.	Shoulder
SHW	Seasonal High Water
Spec.	Specification
Sq. Ft.,/S.F.	Square Foot
Sq. In.	Square Inch
Sq. Yd.,/S.Y.	Square Yard
SR or S.R.	State Road
SRD	State Road Department
SS	Sanitary Sewer
St. or ST.	Street
Sta.	Station
Std.	Standard
Stl.	Steel
Sub. or Subst.	Substitute
Subgr.	Subgrade
SUR or Sur.	Survey
Surf.	Surface
T	Tangent, Length Of Curve,
TBM	Temporary Bench Mark
TC	Tangent To Curve
TCB	Temporary Concrete Barrier
TCE	Temporary Construction Easement
TCP	Terra Cotta Pipe
TCZ	Traffic Control Zone
TDLC	Transportation Design For Livable Communities
Tel.	Telephone
Temp.	Temperature or Temporary
Thick.	Thickness
Tn.	Ton
Trans.	Transition, Transverse,
TS	Tangent To Spiral
TSC	Length Of Tangent (Spiral Curve)
TTC	Temporary Traffic Control
Typ.	Typical
UAO	Utility Agent/Owner
Upass.	Underpass
UG	Underground
UL	Underwriters Laboratories
Ultd.	Unlimited
Undr.	Underdrains
Undrdwy.	Underroadway
USC & GS	US Coast and Geodetic Survey
USGS	US Geological Survey
USPS	United States Postal Service
Util.	Utilities
V	Volt, Velocity, Volume or Hourly Volume
Var.	Varies, Variable or Variance
VC	Vertical Curve
VCP	Vitrified Clay Pipe
Vert.	Vertical
Vh	Verified Horizontal Location
Vol.	Volume
VP	Vertical Panel
VPD or Vpd.	Vehicles Per Day
VPH or Vph.	Vehicles Per Hour
VPHPL or Vphpl.	Vehicles Per Hour Per Lane
VRMS	Volts Root Mean Square
Vv	Verified Vertical Elevation
VW	Variable Width
W	Width, Wide, West or Watt
WB	Westbound
Wb.	Weber
WB40	Intermediate Semi Trailer
WB50	Large Semi Trailer
WB60	Tandem Semi Trailer
WM	Water Main
WT	Water Table Or Weight
WWF	Welded Wire Fabric
X	Coordinate Value (East-West Direction) or Extra
X Rd.	Cross Road
Xing.	Crossing
Xsec.	Cross Section
Y	Coordinate Value (North-South Direction)

TREE LEGEND



EXISTING TREE TO REMAIN



EXISTING TREE TO BE REMOVED

CIVIL GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE PERFORMED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT (SEE NOTE 16) MUST BE INCLUDED IN THE CONTRACTOR'S PRICE FOR PERFORMING THE WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUBSURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THIS PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.
3. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE OWNER FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
4. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. "AS-BUILT" DRAWINGS – AS-BUILT DRAWINGS ARE REQUIRED TO BE PROVIDED AND SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION, AND SUBMITTAL OF "AS-BUILT" DRAWINGS.
6. "AS-BUILT" RECORD DATA AND INFORMATION SHALL BE MAINTAINED BY THE CONTRACTOR. RECORD DRAWINGS SHALL BE SUPPLIED TO THE BDC, DODSTONE ARCHITECTS, AND GEORGE & ASSOCIATES CONSULTING ENGINEERS, INC.
7. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
8. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR ON A WEEKLY BASIS.
9. ALL EXCESS UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE.
10. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED, EXCEPT FOR REMOVAL AS REQUIRED FOR CONSTRUCTION.
11. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES, AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL FIELD LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS, AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.
12. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS, FOR REVIEW AND APPROVAL, PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE OR STRUCTURE.
13. UNSUITABLE MATERIALS BENEATH WATER AND SEWER PIPE AND/OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACK FILL PROPERLY COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.
14. ALL WATER & SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES.
15. CONTRACTOR SHALL PROVIDE SEDIMENT AND EROSION CONTROL DURING THE ENTIRE DURATION OF THE PROJECT. ALL JURISDICTIONAL WETLANDS SHALL BE PROTECTED FROM SEDIMENTATION AND EROSION AS WELL AS ENCROACHMENT OF ANY KIND. ANY WETLAND JURISDICTIONAL LINES ARE SHOWN ON THE PLANS FOR REFERENCE. CONTRACTOR SHALL MEET THE REQUIREMENTS SET FORTH BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE U.S. ARMY CORPS OF ENGINEERS AS RELATED TO JURISDICTIONAL WETLANDS.
16. CONTRACTOR SHALL COMPLY WITH THE CURRENT FLORIDA TRENCH SAFETY ACT (F.S. 553.60–553.64) AND THE OSHA EXCAVATION SAFETY STANDARDS 29, CFR PART 1926.650 SUBPART P. WHERE TRENCH EXCAVATION EXCEEDS 5 FT IN DEPTH, SEE FLORIDA STATUTE 553.60–553.64.
17. CONTRACTOR SHALL COMPLY WITH STORM WATER POLLUTION PREVENTION PLAN. A COPY OF THIS PLAN AND FORMS ARE INCLUDED IN THE SPECIFICATIONS.

AS BUILT / RECORD DRAWINGS:

1. CONTRACTOR SHALL PROVIDE GEORGE & ASSOCIATES CONSULTING ENGINEERS TWO SIGNED AND SEALED COPIES OF AS-BUILT DRAWINGS OF ALL FINISHED IMPROVEMENTS.
2. CONTRACTOR SHALL PROVIDE THE BDC, DODSTONE ARCHITECTS, AND GEORGE & ASSOCIATES CONSULTING ENGINEERS AS-BUILT DRAWINGS OF ALL FINISHED IMPROVEMENTS IN PDF AND DWG FORMAT.
3. AS-BUILT DRAWINGS TO BE PERFORMED AND CERTIFIED BY A FLORIDA LICENSED PROFESSIONAL LAND SURVEYOR.
4. AS-BUILT DRAWINGS SHALL BE SUBMITTED AFTER COMPLETION OF ALL IMPROVEMENTS AND PRIOR TO FINAL INSPECTION.
5. AS BUILT DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO:

A. FINISHED FLOOR ELEVATIONS FOR ALL BUILDINGS.
B. SHOW ENTIRE SANITARY SEWER CONVEYANCE SYSTEM INCLUDING THE SIZE TYPE AND INVERT OF ALL PIPES AND MANHOLES. MANHOLES SHALL INCLUDE "X" AND "Y" COORDINATES.
C. SHOW ENTIRE POTABLE WATER SYSTEM INCLUDING THE SIZE AND TYPE OF ALL PIPES AND LOCATIONS OF APPURTENANCES.
D. SHOW ENTIRE FIRE WATER SYSTEM INCLUDING THE SIZE AND TYPE OF ALL PIPES AND LOCATIONS OF APPURTENANCES.
E. SHOW ENTIRE STORM WATER CONVEYANCE SYSTEM INCLUDING THE SIZE TYPE AND INVERT OF ALL PIPES, CHANNELS, ROOF DRAIN SYSTEMS, STRUCTURES, CURBING AND SPOT SHOT ELEVATIONS IN VEHICLE USE AREAS. DRAINAGE STRUCTURES SHALL INCLUDE "X" AND "Y" COORDINATES.
F. SHOW ALL SIDEWALK AND VEHICLE USE AREAS. PROVIDE ADEQUATE SPOT ELEVATIONS TO VERIFY ADA COMPLIANCE FOR REVIEW BY ENGINEER AND ADA COMPLIANCE REPORT.
G. SHOW ALL TRAFFIC CONTROL DEVICES INCLUDING SIGNS, SIGNALS, PARKING STRIPPING AND PAVEMENT MARKINGS.
H. SITE DATA TABLE TO INCLUDE IMPERVIOUS AREAS, URBAN FOREST AREAS, GREEN SPACE AREAS, AND NUMBER OF PARKING SPACES.
I. POST CONSTRUCTION TREE SURVEY INCLUDING LOCATION, SIZE AND SPECIES OF ALL EXISTING AND NEW TREES INCLUDING URBAN FOREST AND REPLANTED TREES AND IRRIGATION SYSTEMS.
J. DELINEATE CONSERVATION AND DRAINAGE EASEMENT BOUNDARIES AND LABEL WITH THE "OR" BOOK AND PAGE NUMBER.
K. POST DEVELOPMENT SITE DATA TABLE INCLUDING IMPERVIOUS AREA, URBAN FOREST AREA, GREEN SPACE AREA, NUMBER OF STANDARD PARKING STALLS, NUMBER ADA PARKING STALLS PROVIDED.
L. DELINEATE ALL UTILITIES CAPPED WITH "X" "Y" "Z" COORDINATES.
M. ANY ADDITIONAL ITEMS REQUIRED BY PERMITTING JURISDICTION.

DESIGN STANDARDS:

1. THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, UNLESS OTHERWISE NOTED.
2. THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
3. 2023 FLORIDA BUILDING CODES, 8TH EDITION.
4. FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTORS MANUAL, LATEST EDITION.
5. INLET BEACH WATER SYSTEM STANDARD DESIGN AND CONSTRUCTION SPECIFICATIONS, LATEST EDITION.

CONSTRUCTION SEQUENCE:

1. CONSTRUCT EROSION AND SEDIMENT CONTROL PRACTICES AS DESCRIBED IN THE APPROVED EROSION CONTROL PLAN.
2. ESTABLISH MAINTENANCE OF TRAFFIC PLAN WITH PARK MANAGER.
3. CONTRACTOR SHALL PROVIDE CONSTRUCTION SEQUENCE TO FDEP, PARK MANAGER, ENGINEER AND ARCHITECT.
4. DESIGNATE EMPLOYEE PARKING AREAS, MATERIALS STORAGE AREAS, AND TOPSOIL STORAGE AREAS.
5. CONSTRUCT ALL IMPROVEMENTS AS INDICATED IN THE PLANS AND SPECIFICATIONS.
6. REMOVE ALL STOCKPILE FROM SITE, INSTALL LANDSCAPING. SOD ALL DISTURBED AREAS.
7. PRIOR TO FINAL CLOSE-OUT, THE CONTRACTOR SHALL FURNISH THE ARCHITECT, ENGINEER AND THE OWNER'S PROJECT MANAGER WITH SIGNED AND SEALED COPIES OF THE AS-BUILT SURVEY AND A COMPLETE SET OF RECORD DOCUMENTS.
8. FIELD INSPECTION AND CLEAN UP.

ADA COMPLIANCE NOTES:

THE CONTRACTOR WILL BE HELD ACCOUNTABLE DURING CONSTRUCTION FOR ALL SITE IMPROVEMENTS. COMPLIANCE WITH FLORIDA STATUTES 553.5041 (F.S.), AND THE 2023 FLORIDA BUILDING CODE, ACCESSIBILITY, 8TH EDITION (FBC–A), IS MANDATORY. IF NON–COMPLIANT AT FINAL INSPECTION, CONTRACTOR WILL BE REQUIRED TO MODIFY CONSTRUCTION TO COMPLY WITH F.S. AND FBC–A. THE FOLLOWING ITEMS TAKE PRECEDENCE AND SUPERSEDE OTHER SITE DETAILS ON DRAWINGS:

1. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE NO LESS THAN 44" WIDE SO THAT USERS WILL NOT BE COMPELLED TO WALK OR WHEEL BEHIND PARKED VEHICLES EXCEPT BEHIND HIS OR HER OWN VEHICLE. §208.1 AND §502.3, FBC–A AND F.S. 553.5041.
2. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM THE ACCESSIBLE (H/C) PARKING TO AN ACCESSIBLE ENTRANCE. §208.3.1 FBC–A AND F.S. 553.5041(5)(8).
3. ACCESSIBLE PARKING SPACES SHALL BE 12' WIDE , AND OUTLINED WITH BLUE PAINT. §502.2 AND §502.6, FBC–A
4. ACCESS AISLES REQUIRED ADJACENT TO PARKING SPACES SHALL BE 5' WIDE WITH DIAGONAL STRIPING. §502., FBC–A
5. ACCESSIBLE PARKING AND ACCESS AISLES SHALL BE LEVEL (NOT TO EXCEED 1:48) ON A STABLE FIRM & SLIP RESISTANT SURFACE. RE: §302.1, §502.3. FBC–A
6. ACCESSIBLE PARKING SIGNS SHALL BE FDOT APPROVED AND SHALL READ "PARKING BY DISABLED PERMIT ONLY" AND SHALL INDICATE A $250 FINE FOR ILLEGAL USE. INSTALL SIGNS A MINIMUM 60"(INCHES) FROM THE GROUND TO THE BOTTOM OF THE SIGN(S). RE: §502.6 AND F.S 553.5041.
7. CURB RAMPS SHALL NOT EXCEED 1:12 SLOPE, AND CURB RAMP FLARES SHALL NOT EXCEED 1:10 SLOPE. CURB RAMPS AND FLARED SIDES SHALL NOT ENCROACH UPON PARKING SPACES, ACCESS AISLES, OR VEHICULAR TRAFFIC LANES. THE COUNTER SLOPE OF ADJACENT ROAD SURFACES & GUTTERS SHALL NOT EXCEED 1:20. RE: §405.2, §406., FBC–A
8. CURB RAMPS SHALL HAVE A LANDING WITH A MINIMUM CLEAR LENGTH OF 36" SHALL BE LOCATED AT THE TOP SIDE OF EACH CURB RAMP, A CLEAR WIDTH AT LEAST AS WIDE AS THE CURB RAMP (EXCLUDING FLARED SIDES) LEADING TO IT. EXCEPTION: FOR ALTERATIONS, WHERE THERE IS NO LANDING, CURB RAMP FLARES SHALL BE PROVIDED, AND SHALL NOT BE STEEPER THAN 1:12 SLOPE. RE: §406, FBC–A
9. ALL RAMPS WITH A RISE GREATER THAN 6" SHALL PROVIDE EDGE PROTECTION COMPLYING WITH §405.9 FACBC. RAMPS SHALL HAVE 60" MIN LEVEL LANDINGS AT THE TOP & BOTTOM. RE: §405.7. FBC–A.
10. ALL RAMPS WITH A RISE GREATER THAN 6" SHALL PROVIDE EDGE PROTECTION COMPLYING WITH §405.9 FACBC. RAMPS SHALL HAVE 60" MIN LEVEL LANDINGS AT THE TOP & BOTTOM. RE: §405.7. FBC–A.
11. ACCESSIBLE ROUTES TO "MAIN ENTRY" FROM AN ACCESSIBLE PARKING SPACE, AND FROM THE "PUBLIC WAY", SHALL NOT EXCEED 1:20 SLOPE (UNLESS RAMPS, HANDRAILS WITH PROPER EXTENSIONS ARE PROVIDED) WITH CROSS SLOPE NOT IN EXCESS OF 1:48. RE: §206, §402 AND §403., FBC–A.
12. CONNECT BUILDINGS WITHIN THE SAME SITE WITH AN ACCESSIBLE ROUTE WHICH SHALL NOT EXCEED 1:20 SLOPE (UNLESS RAMPS AND HANDRAILS ARE PROVIDED) AND A MAXIMUM CROSS SLOPE OF 1:48. RE: §206 FBC–A.

PROJECT SPECIFIC NOTES:

1. SHOP DRAWINGS FOR THE PICNIC PAVILIONS, ADA FLOATING KAYAK LAUNCH, NEW SIGNS, GRINDER PUMP STATION, PIPES, VALVES, DRAINAGE STRUCTURES AND ANY OTHER ITEMS LISTED IN THE SPECIFICATIONS SHALL BE SUBMITTED TO THE E.O.R. FOR APPROVAL.
2. POWELL LAKE IS AN OUTSTANDING FLORIDA WATER (OFW), ALL DUE CAUTION SHALL BE TAKEN TO PREVENT STORMWATER FROM CARRYING SEDIMENT INTO THE LAKE.
3. IF SHORELINE CONSTRUCTION IS TO OCCUR DURING TURTLE NESTING SEASON (MARCH–OCTOBER), A PRE–CONSTRUCTION SURVEY OF THE SHORELINE SHALL BE DONE TO CONFIRM THAT NO SEA TURTLE NESTS ARE PRESENT IN THE AREA OF IMPACT.
4. IT IS RECOMMENDED THAT SHORELINE CONSTRUCTION AVOID SHOREBIRD NESTING SEASON (MAY–JUNE).
5. BRUSH FINISH ALL CONCRETE SURFACES (UNLESS POROUS CONCRETE IS SPECIFIED).
6. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF THE PICNIC PAVILION(S), UTILITY PARTS AND OTHER PICNIC AREA ACCESSORIES PRIOR TO ORDERING.
7. ALL SEWER AND WATER UTILITY WORK MUST COMPLY WITH INLET BEACH WATER SYSTEM STANDARD DESIGN AND CONSTRUCTION SPECIFICATIONS, UNLESS NOTED OTHERWISE ON THE PLANS.
8. THE DESIGNATED MAINTENANCE OF TRAFFIC (MOT) TECHNICIAN SHALL NOTIFY ENGINEER OF RECORD AND SUBMIT THEIR INFORMATION TO THE FDOT REGULATING OFFICE PRIOR TO COMMENCEMENT OF WORK IN THE RIGHT–OF–WAY:

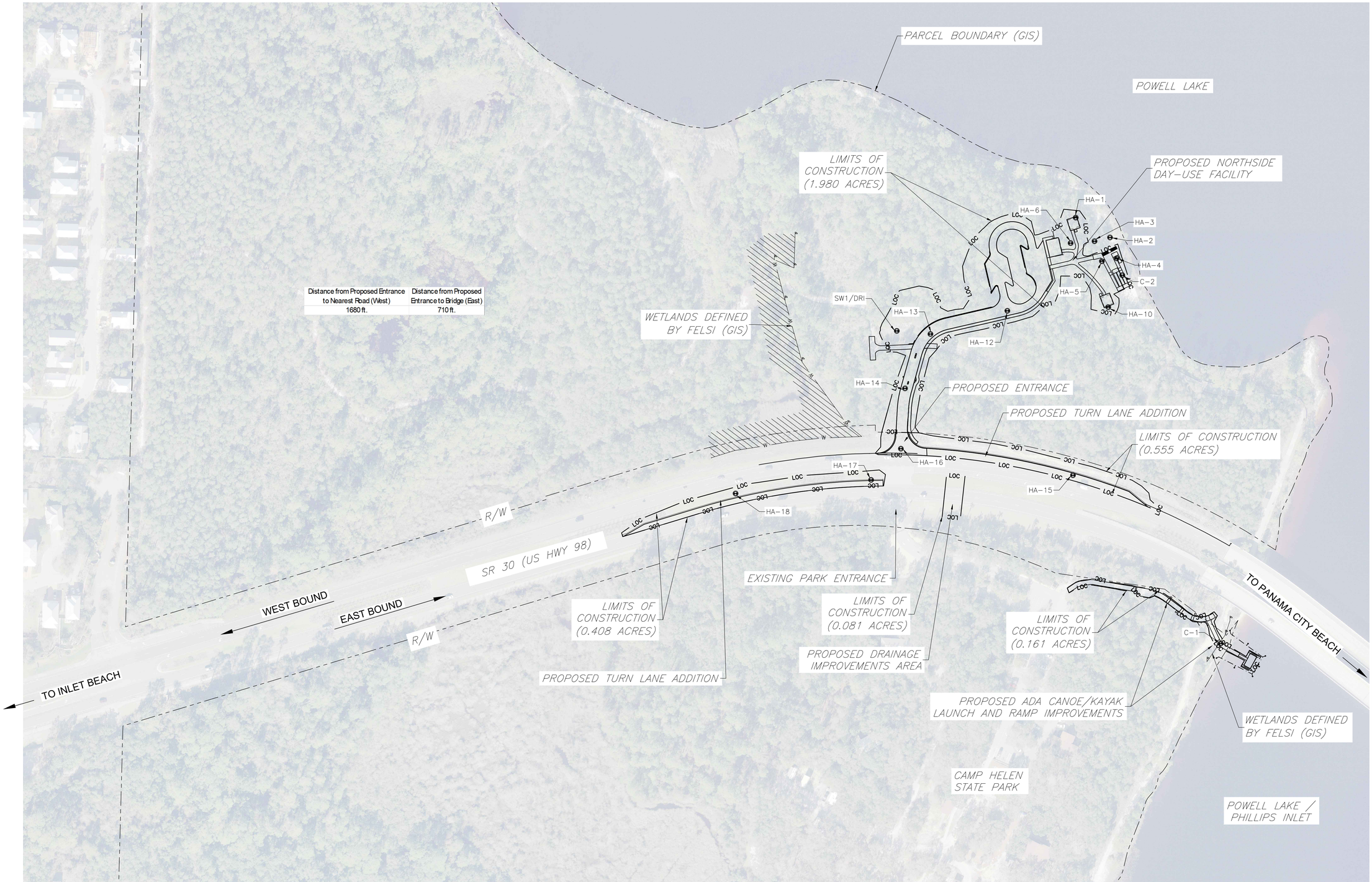
   LISA WARD
   FDOT PERMITS MANAGER
   MARIANNA/PANAMA CITY OPERATIONS
   3633 HWY 390
   PANAMA CITY, FL, 32405
   (850) 767 4914
   LISA.WARD@DOT.STATE.FL.US

SURVEY LEGEND & ABBREVIATIONS:

	= BACKFLOW PREVENTER		= WATER METER
	= BENCH		= WIRING PULL BOX
	= BUSH		= UTILITY VALVE
	= TELEPHONE PEDESTAL	–BFO–	= BURIED FIBER OPTIC LINE
	= DRAINAGE MANHOLE	–BT–	= BURIED TELEPHONE LINE
	= FIRE HYDRANT	–G–	= GAS MAIN
	= GUY ANCHOR	–OE–	= OVERHEAD UTILITY LINE
	= UTILITY POLE	–WM–	= WATER LINE
	= NON–TRAFFIC SIGN	–NPW–	= RECLAIM WATER LINE
	= TEST HOLE		= TREE LINE
	= TRAFFIC SIGN		= UTILITY MARKER

BUREAU OF DESIGN AND CONSTRUCTION GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND ACCEPTING THE EXISTING CONDITIONS OF THE SITE PRIOR TO BIDDING.
2. ALL DISTURBED AREAS WITHIN THE LIMITS OF RESTORATION SHALL BE REVEGETATED AS SPECIFIED BY THE PARK SERVICE BIOLOGIST.
3. EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL ENSURE THAT THE UTILITY SYSTEMS D



Distance from Proposed Entrance to Nearest Road (West)	Distance from Proposed Entrance to Bridge (East)
1680 ft.	710 ft.

PROJECT LOCATION MAP

SCALE: 1" = 100'

100 0 50 100
1 inch = 100 ft.

LINETYPE LEGEND

W	WETLAND LINE
LOC	LIMITS OF CONSTRUCTION
	GEOTECHNICAL BORINGS

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No.: 61307C-N3803

DESIGNER: SMU
DRAWN BY: KOP
REVIEWED BY: JHP

Consultant:
George & Associates Consulting Engineers, Inc.
CERTIFICATE OF AUTHORIZATION NUMBER: EC-0000 7
ENGINEERING BUSINESS NO. 2829
13967 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850) 210-3344 FAX: (850) 210-3345

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION
JAMES H. PETERSON III LICENSE No 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PETERSON III
State of Florida P.E. # 80485

CAMP HELEN STATE PARK

SHEET TITLE: PROJECT LOCATION MAP

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C004

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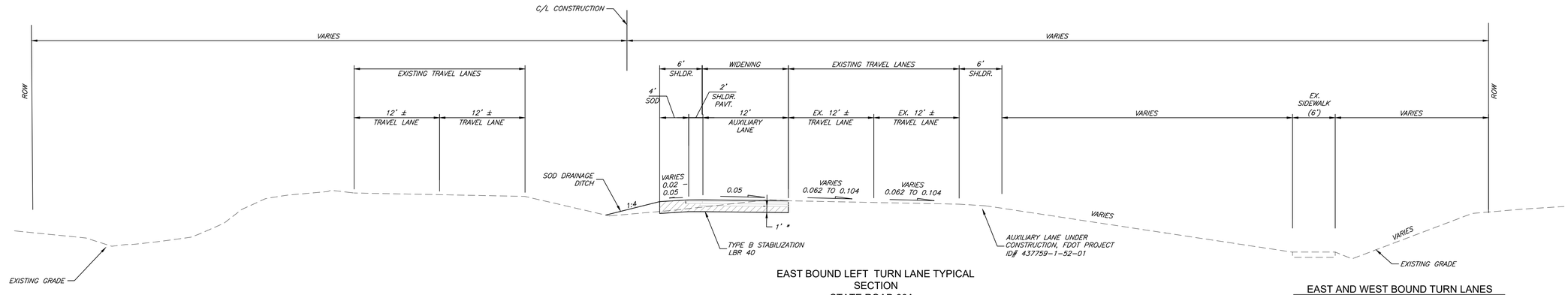
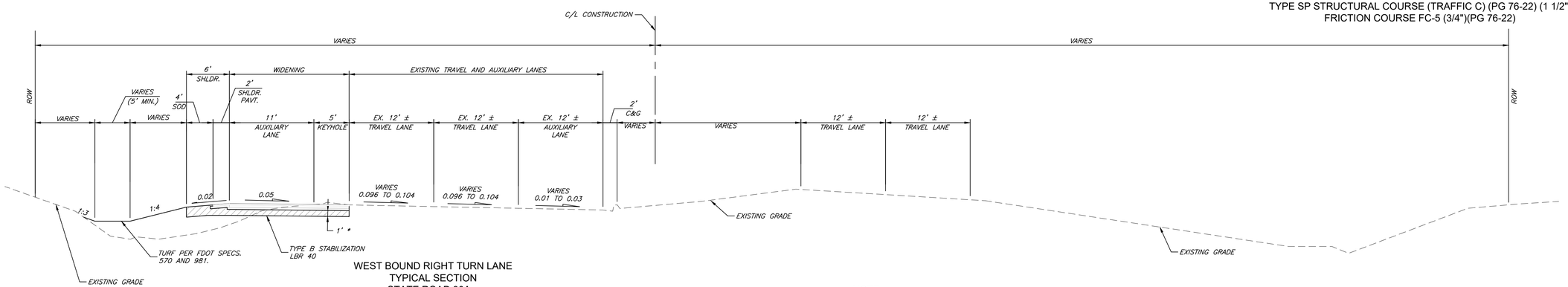


EAST BOUND LEFT TURN LANE TYPICAL SECTION
STATE ROAD 30A
STA. 143+33.78 TO STA. 148+63.00
(LOOKING EAST)

EAST AND WEST BOUND TURN LANES
OPTIONAL BASE GROUP 9
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (PG 76-22) (3")
FRICTION COURSE FC-5 (3/4")(PG 76-22)

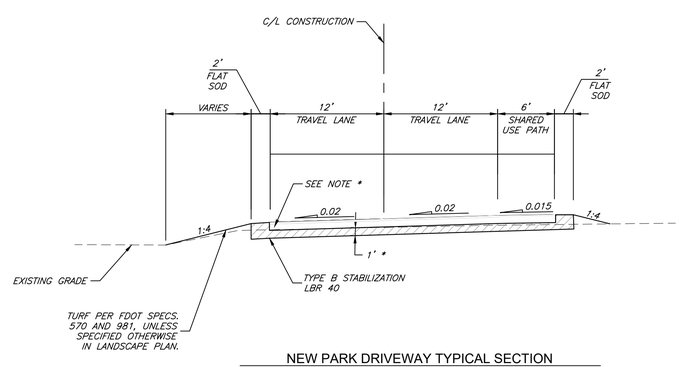
SHOULDER PAVEMENT
OPTIONAL BASE GROUP 1
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (PG 76-22) (1 1/2")
FRICTION COURSE FC-5 (3/4")(PG 76-22)



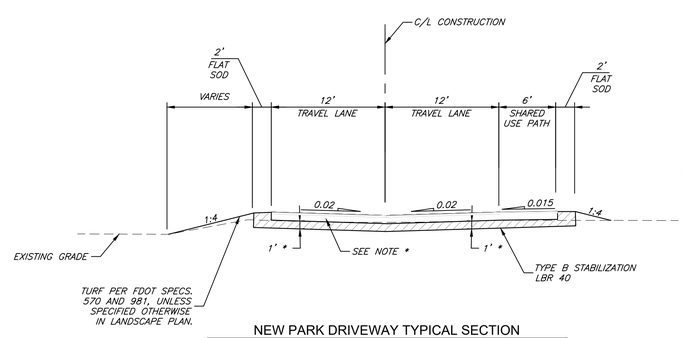
WEST BOUND RIGHT TURN LANE
TYPICAL SECTION
STATE ROAD 30A
STA. 149+12.00 TO STA. 153+93.00
(LOOKING EAST)

NOTE:

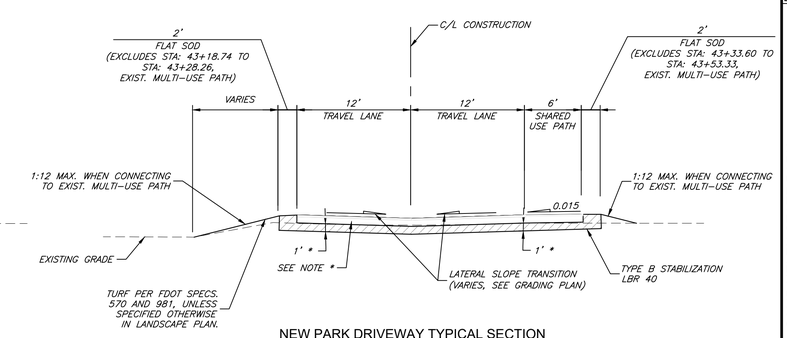
* DRIVEWAY AND PARKING AREA TO HAVE A SP 12.5 ASPHALTIC CONCRETE WEARING SURFACE WITH A MINIMUM THICKNESS OF 2 INCHES. BASE COURSE MATERIAL SHALL BE EITHER LIME ROCK OR GRADED AGGREGATE BASE (GAB) WITH A MINIMUM THICKNESS OF 6 INCHES. THE CONTRACTOR SHALL USE GAB IN LIEU OF LIME ROCK IN ALL AREAS WITHIN 24 INCHES OF WATER TABLE PER FINDINGS OF GEOTECH REPORT.



NEW PARK DRIVEWAY TYPICAL SECTION
OPTIONAL BASE GROUP 4
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
STA. 43+52.00 TO STA. 45+46.00



NEW PARK DRIVEWAY TYPICAL SECTION
OPTIONAL BASE GROUP 4
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
STA. 41+88.34 TO STA. 43+09.05
STA. 43+39.50 TO STA. 43+52.00



NEW PARK DRIVEWAY TYPICAL SECTION
OPTIONAL BASE GROUP 4
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
STA. 43+09.05 TO STA. 43+39.50

TYPICAL SECTIONS

SYMBOL	REVISION	DATE

SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No.: 61307C-N3803

DESIGNER: SMU
DRAWN BY: TJM
REVIEWED BY: JHP

Consultant: George & Associates Consulting Engineers, Inc.
CIVIL • ENVIRONMENTAL • STRUCTURAL • TRANSPORTATION
ENGINEERING BUSINESS NO. 2029
19567 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850) 210-3434 FAX: (850) 210-3435

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

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JAMES H. PETERSON III
State of Florida P.E. # 80485

CAMP HELEN STATE PARK

SHEET TITLE: TYPICAL SECTIONS

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C005

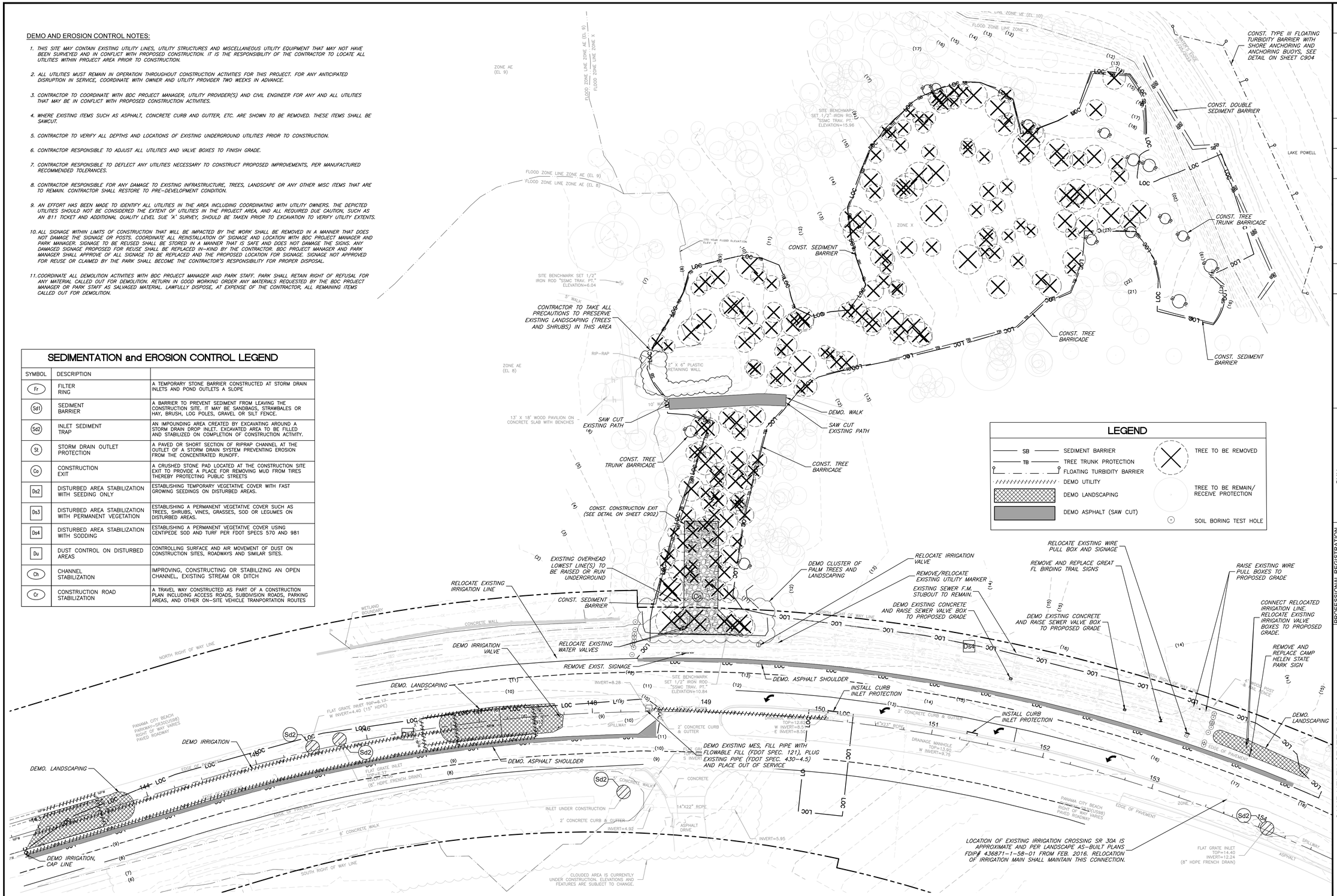
DWG:C005 October 31, 2024, P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\04 Typical Sections\C005 Typical Sections.dwg

DEMO AND EROSION CONTROL NOTES:

1. THIS SITE MAY CONTAIN EXISTING UTILITY LINES, UTILITY STRUCTURES AND MISCELLANEOUS UTILITY EQUIPMENT THAT MAY NOT HAVE BEEN SURVEYED AND IN CONFLICT WITH PROPOSED CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES WITHIN PROJECT AREA PRIOR TO CONSTRUCTION.
2. ALL UTILITIES MUST REMAIN IN OPERATION THROUGHOUT CONSTRUCTION ACTIVITIES FOR THIS PROJECT. FOR ANY ANTICIPATED DISRUPTION IN SERVICE, COORDINATE WITH OWNER AND UTILITY PROVIDER TWO WEEKS IN ADVANCE.
3. CONTRACTOR TO COORDINATE WITH BDC PROJECT MANAGER, UTILITY PROVIDER(S) AND CIVIL ENGINEER FOR ANY AND ALL UTILITIES THAT MAY BE IN CONFLICT WITH PROPOSED CONSTRUCTION ACTIVITIES.
4. WHERE EXISTING ITEMS SUCH AS ASPHALT, CONCRETE CURB AND GUTTER, ETC. ARE SHOWN TO BE REMOVED. THESE ITEMS SHALL BE SAWCUT.
5. CONTRACTOR TO VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
6. CONTRACTOR RESPONSIBLE TO ADJUST ALL UTILITIES AND VALVE BOXES TO FINISH GRADE.
7. CONTRACTOR RESPONSIBLE TO DEFLECT ANY UTILITIES NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS, PER MANUFACTURED RECOMMENDED TOLERANCES.
8. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO EXISTING INFRASTRUCTURE, TREES, LANDSCAPE OR ANY OTHER MISC ITEMS THAT ARE TO REMAIN. CONTRACTOR SHALL RESTORE TO PRE-DEVELOPMENT CONDITION.
9. AN EFFORT HAS BEEN MADE TO IDENTIFY ALL UTILITIES IN THE AREA INCLUDING COORDINATING WITH UTILITY OWNERS. THE DEPICTED UTILITIES SHOULD NOT BE CONSIDERED THE EXTENT OF UTILITIES IN THE PROJECT AREA, AND ALL REQUIRED DUE CAUTION, SUCH AS AN 811 TICKET AND ADDITIONAL QUALITY LEVEL SUE 'A' SURVEY, SHOULD BE TAKEN PRIOR TO EXCAVATION TO VERIFY UTILITY EXTENTS.
10. ALL SIGNAGE WITHIN LIMITS OF CONSTRUCTION THAT WILL BE IMPACTED BY THE WORK SHALL BE REMOVED IN A MANNER THAT DOES NOT DAMAGE THE SIGNAGE OR POSTS. COORDINATE ALL REINSTALLATION OF SIGNAGE AND LOCATION WITH BDC PROJECT MANAGER AND PARK MANAGER. SIGNAGE TO BE REUSED SHALL BE STORED IN A MANNER THAT IS SAFE AND DOES NOT DAMAGE THE SIGNS. ANY DAMAGED SIGNAGE PROPOSED FOR REUSE SHALL BE REPLACED IN-KIND BY THE CONTRACTOR. BDC PROJECT MANAGER AND PARK MANAGER SHALL APPROVE OF ALL SIGNAGE TO BE REPLACED AND THE PROPOSED LOCATION FOR SIGNAGE. SIGNAGE NOT APPROVED FOR REUSE OR CLAIMED BY THE PARK SHALL BECOME THE CONTRACTOR'S RESPONSIBILITY FOR PROPER DISPOSAL.
11. COORDINATE ALL DEMOLITION ACTIVITIES WITH BDC PROJECT MANAGER AND PARK STAFF. PARK SHALL RETAIN RIGHT OF REFUSAL FOR ANY MATERIAL CALLED OUT FOR DEMOLITION. RETURN IN GOOD WORKING ORDER ANY MATERIALS REQUESTED BY THE BDC PROJECT MANAGER OR PARK STAFF AS SALVAGED MATERIAL. LAWFULLY DISPOSE, AT EXPENSE OF THE CONTRACTOR, ALL REMAINING ITEMS CALLED OUT FOR DEMOLITION.

SEDIMENTATION and EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION	
Fr	FILTER RING	A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS A SLOPE
Sd1	SEDIMENT BARRIER	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, STRAWBALES OR HAY, BRUSH, LOG POLES, GRAVEL OR SILT FENCE.
Sd2	INLET SEDIMENT TRAP	AN IMPOUNDING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN DROP INLET. EXCAVATED AREA TO BE FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITY.
St	STORM DRAIN OUTLET PROTECTION	A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
Co	CONSTRUCTION EXIT	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS
Ds2	DISTURBED AREA STABILIZATION WITH SEEDING ONLY	ESTABLISHING TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION	ESTABLISHING A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD OR LEGUMES ON DISTURBED AREAS.
Ds4	DISTURBED AREA STABILIZATION WITH SODDING	ESTABLISHING A PERMANENT VEGETATIVE COVER USING CENTIPEDE SOD AND TURF PER FDOT SPECS 570 AND 981
Du	DUST CONTROL ON DISTURBED AREAS	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITES, ROADWAYS AND SIMILAR SITES.
Ch	CHANNEL STABILIZATION	IMPROVING, CONSTRUCTING OR STABILIZING AN OPEN CHANNEL, EXISTING STREAM OR DITCH
Cr	CONSTRUCTION ROAD STABILIZATION	A TRAVEL WAY CONSTRUCTED AS PART OF A CONSTRUCTION PLAN INCLUDING ACCESS ROADS, SUBDIVISION ROADS, PARKING AREAS, AND OTHER ON-SITE VEHICLE TRANPORTATION ROUTES



DEMOLITION AND EROSION CONTROL PLAN

SCALE: 1" = 40'

ISSUE DATE: 02/14/2025 100% PLANS	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
COMP. FILE No. 21-5436						
STATE PROJECT No. 61307C-N3803						

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates Consulting Engineers, Inc.
CIVIL • ENVIRONMENTAL • TRANSPORTATION • WATER ENGINEERING
ENGINEERING BUSINESS NO. 2029
1957 Commonwealth Lane, Suite 200, Tallahassee, FL 32303
PHONE: (850)210-3344 FAX: (850)210-3345

DESIGNER: SMU
DRAWN BY: TJM
REVIEWED BY: JHP
Consultant:

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV LICENSE No 80465 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PETERSON IV #
State of Florida P.E. # 80465

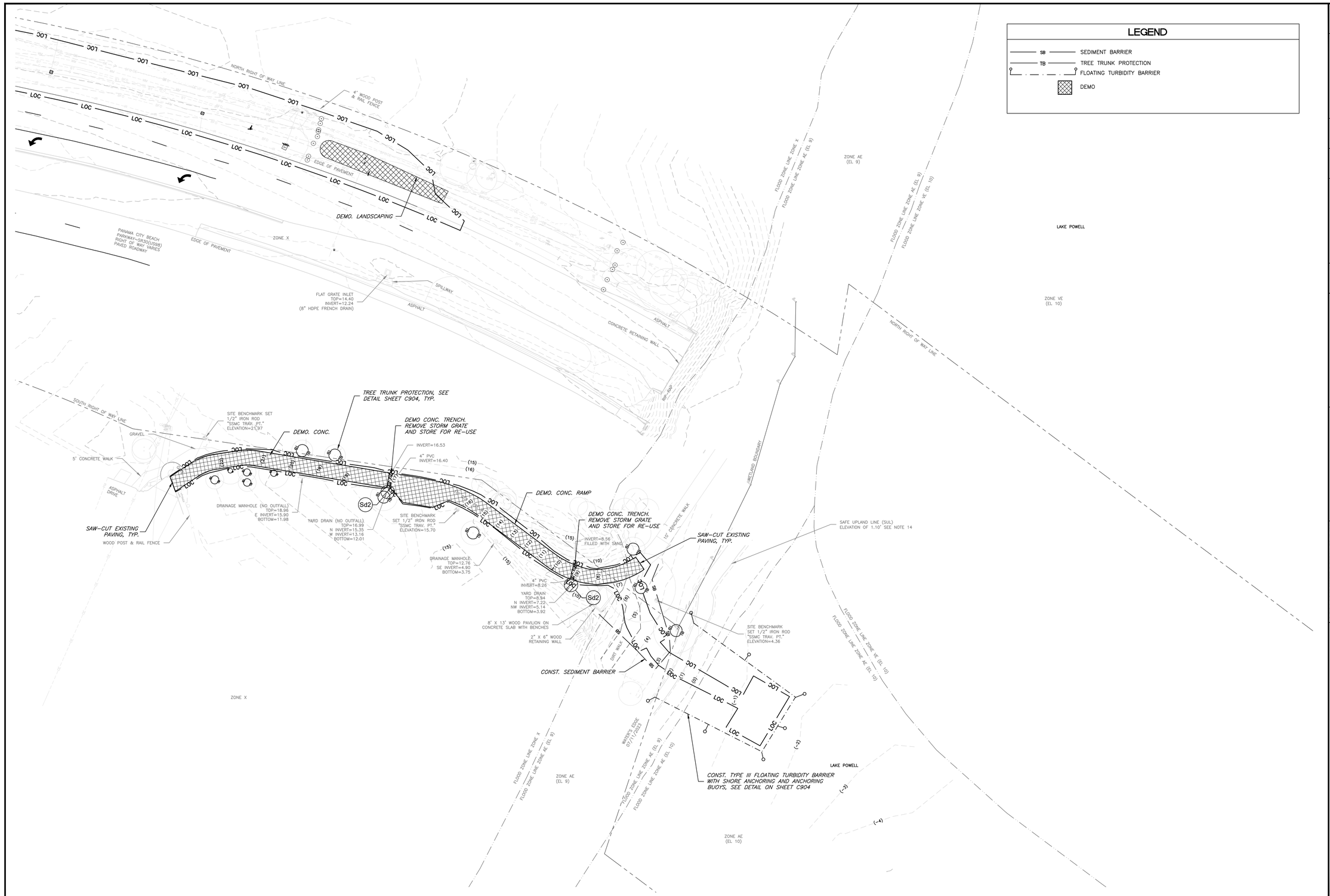
CAMP HELEN STATE PARK

SHEET TITLE: DEMOLITION AND EROSION CONTROL PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C201

DRCOCO January 16, 2025 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\03 Existing Conditions, Demo, Tree Removal\C201 Demolition and Erosion Control Plan.dwg



DEMOLITION AND EROSION CONTROL PLAN

SCALE: 1" = 30'

ISSUE DATE: 02/14/2025 100% PLANS	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
COMP. FILE No.: 21-5436						
STATE PROJECT No.: 61307C-N3803						

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates Consulting Engineers, Inc.
CIVIL • TRANSPORTATION • ENVIRONMENTAL • LAND USE
ENGINEERING BUSINESS NO. 2029
1967 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
FTB-CE 1535-32103-34 FAX (850)210-3345

DESIGNER: SMU
DRAWN BY: TJM
REVIEWED BY: JHP
Consultant:

PROFESSIONAL REGISTRATION
JAMES H. PETERSON III LICENSE No 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PETERSON III
State of Florida P.E. # 80485

CAMP HELEN STATE PARK

SHEET TITLE
DEMOLITION AND EROSION CONTROL PLAN

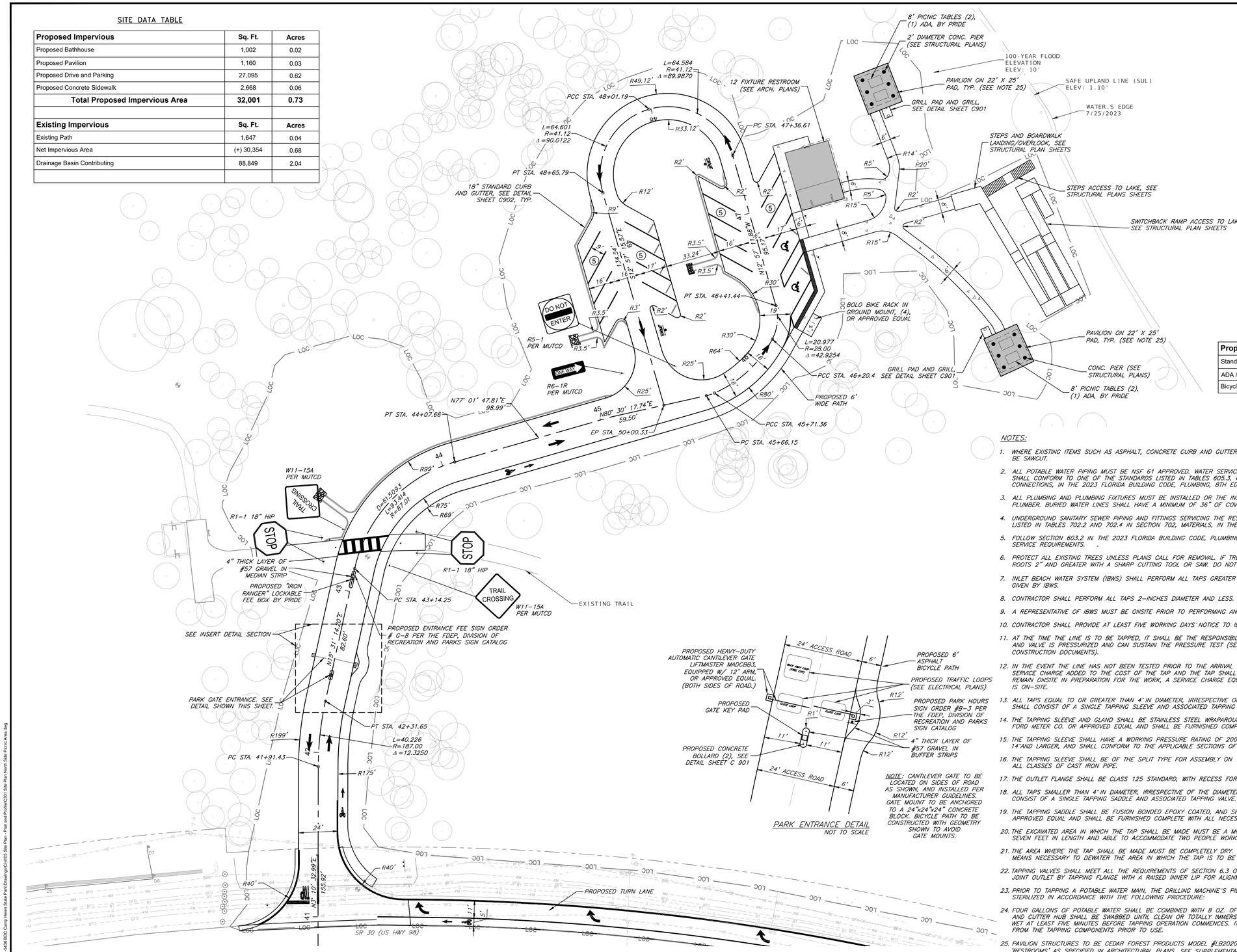
PROJECT TITLE
PARK IMPROVEMENT

SHEET NO.
C202

SULSAMER February 14, 2025 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\03 Existing Conditions, Demo,Tree Removal\C202 Demolition and Erosion Control Plan.dwg

SITE DATA TABLE

Proposed Impervious	Sq. Ft.	Acres
Proposed Bathhouse	1,002	0.02
Proposed Pavilion	1,160	0.03
Proposed Drive and Parking	27,095	0.62
Proposed Concrete Sidewalk	2,668	0.06
Total Proposed Impervious Area	**32,001**	**0.73**
Existing Impervious	**Sq. Ft.**	**Acres**
Existing Path	1,647	0.04
Net Impervious Area	(+) 30,354	0.68
Drainage Basin Contributing	88,849	2.04



SITE PLAN NORTH SIDE PICNIC AREA

SCALE: 1" = 30'

PARK ENTRANCE DETAIL
NOT TO SCALE

NOTE: CANTILEVER GATE TO BE LOCATED ON SIDES OF ROAD AS SHOWN, AND INSTALLED PER MANUFACTURER GUIDELINES. GATE MOUNT TO BE ANCHORED TO A 24"x24"x24" CONCRETE BLOCK. BICYCLE PATH TO BE CONSTRUCTED WITH GEOMETRY SHOWN TO AVOID GATE MOUNTS.

LEGEND

- PROPOSED ASPHALT PAVING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED BUILDING
- SUE TEST HOLE
- YARD HYDRANT
- BACKFLOW PREVENTER
- VALVE
- REDUCER
- WATER METER
- VEHICLE PARKING COUNT
- SIGN
- SWMF SWMF SIGN (SEE NOTE 26.)

Proposed Parking Statistics	No. of Stalls
Standard	18
ADA / Disabled	2
Bicycle	8

NOTES:

1. WHERE EXISTING ITEMS SUCH AS ASPHALT, CONCRETE CURB AND GUTTER, ETC. ARE SHOWN TO BE REMOVED. THESE ITEMS SHALL BE SAWCUT.
2. ALL POTABLE WATER PIPING MUST BE NSF 61 APPROVED. WATER SERVICE PIPING, DISTRIBUTION PIPING AND PLUMBING FIXTURES SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLES 605.3, 605.4, 605.5 IN SECTION 605, MATERIALS, JOINTS AND CONNECTIONS, IN THE 2023 FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION.
3. ALL PLUMBING AND PLUMBING FIXTURES MUST BE INSTALLED OR THE INSTALLATION MUST BE SUPERVISED BY A FLORIDA LICENSED PLUMBER. BURIED WATER LINES SHALL HAVE A MINIMUM OF 36" OF COVER.
4. UNDERGROUND SANITARY SEWER PIPING AND FITTINGS SERVICING THE RESTROOM SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLES 702.2 AND 702.4 IN SECTION 702, MATERIALS, IN THE 2023 FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION.
5. FOLLOW SECTION 603.2 IN THE 2023 FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION FOR SEPARATION OF SEWER AND WATER SERVICE REQUIREMENTS. .
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7. INLET BEACH WATER SYSTEM (IBWS) SHALL PERFORM ALL TAPS GREATER THAN 2" IN DIAMETER, UNLESS WRITTEN PERMISSION IS GIVEN BY IBWS.
8. CONTRACTOR SHALL PERFORM ALL TAPS 2-INCHES DIAMETER AND LESS.
9. A REPRESENTATIVE OF IBWS MUST BE ONSITE PRIOR TO PERFORMING ANY AND ALL TAPS.
10. CONTRACTOR SHALL PROVIDE AT LEAST FIVE WORKING DAYS' NOTICE TO IBWS PRIOR TO PERFORMING THE WORK.
11. AT THE TIME THE LINE IS TO BE TAPPED, IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO ENSURE THAT THE TAPPING SLEEVE AND VALVE IS PRESSURIZED AND CAN SUSTAIN THE PRESSURE TEST (SEE SECTION 6.3.7 OF IBWS SPECIFICATION, INCLUDED IN CONSTRUCTION DOCUMENTS).
12. IN THE EVENT THE LINE HAS NOT BEEN TESTED PRIOR TO THE ARRIVAL OF IBWS AT THE JOB SITE, THERE SHALL BE A $50.00 SERVICE CHARGE ADDED TO THE COST OF THE TAP AND THE TAP SHALL BE RESCHEDULED. SHOULD CONTRACTOR PREFER IBWS TO REMAIN ONSITE IN PREPARATION FOR THE WORK, A SERVICE CHARGE EQUAL TO $50.00 AN HOUR SHALL APPLY SO LONG AS IBWS IS ON-SITE.
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14. THE TAPPING SLEEVE AND GLAND SHALL BE STAINLESS STEEL WRAPAROUND "FAST STYLE", AND SHALL BE AS MANUFACTURED BY FORD METER CO. OR APPROVED EQUAL AND SHALL BE FURNISHED COMPLETE WITH ALL NECESSARY ACCESSORIES.
15. THE TAPPING SLEEVE SHALL HAVE A WORKING PRESSURE RATING OF 200 PSI FOR SIZES 4" THROUGH 12" AND 150 PSI FOR SIZES 14" AND LARGER, AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF AWWA STANDARD C110 OF LATEST REVISION.
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22. TAPPING VALVES SHALL MEET ALL THE REQUIREMENTS OF SECTION 6.3 OF IBWS SPECIFICATIONS AND SHALL BE A MECHANICAL JOINT OUTLET BY TAPPING FLANGE WITH A RAISED INNER LIP FOR ALIGNMENT WITH THE TAPPING SLEEVE.
23. PRIOR TO TAPPING A POTABLE WATER MAIN, THE DRILLING MACHINE'S PILOT DRILL, SHELL CUTTER AND CUTTER HUB SHALL BE STERILIZED IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:
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25. PAVILION STRUCTURES TO BE CEDAR FOREST PRODUCTS MODEL #LB2020 OR APPROVED EQUAL. METAL ROOFING SHALL MATCH "RESTROOMS" AS SPECIFIED IN ARCHITECTURAL PLANS. SEE SUPPLEMENTAL SPECIFICATIONS FOR MANUFACTURER SHOP DRAWINGS.
26. SWMF SIGNAGE TO SERVE AS NOTICE TO PUBLIC / VISITORS THAT STORM PONDS SHALL NOT BE USED FOR RECREATIONAL PURPOSES. EXACT VERBIAGE AND SIGN SPECIFICATIONS TO BE SELECTED AT OWNER'S OPTION.

30 0 15 30
1 inch = 30 ft.

DATE	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No.: 61307C-N3803

George & Associates Consulting Engineers, Inc.
CERTIFICATE OF AUTHORIZATION NUMBER: EC 0000 ENGINEERING BUSINESS NO. 7879
19467 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PH.NO.: 850-321-0344 FAX: 850-321-0345

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP
Consultant:

PROFESSIONAL REGISTRATION
JAMES H. PETERSON III LICENSE No 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PETERSON III
State of Florida P.E. # 80485

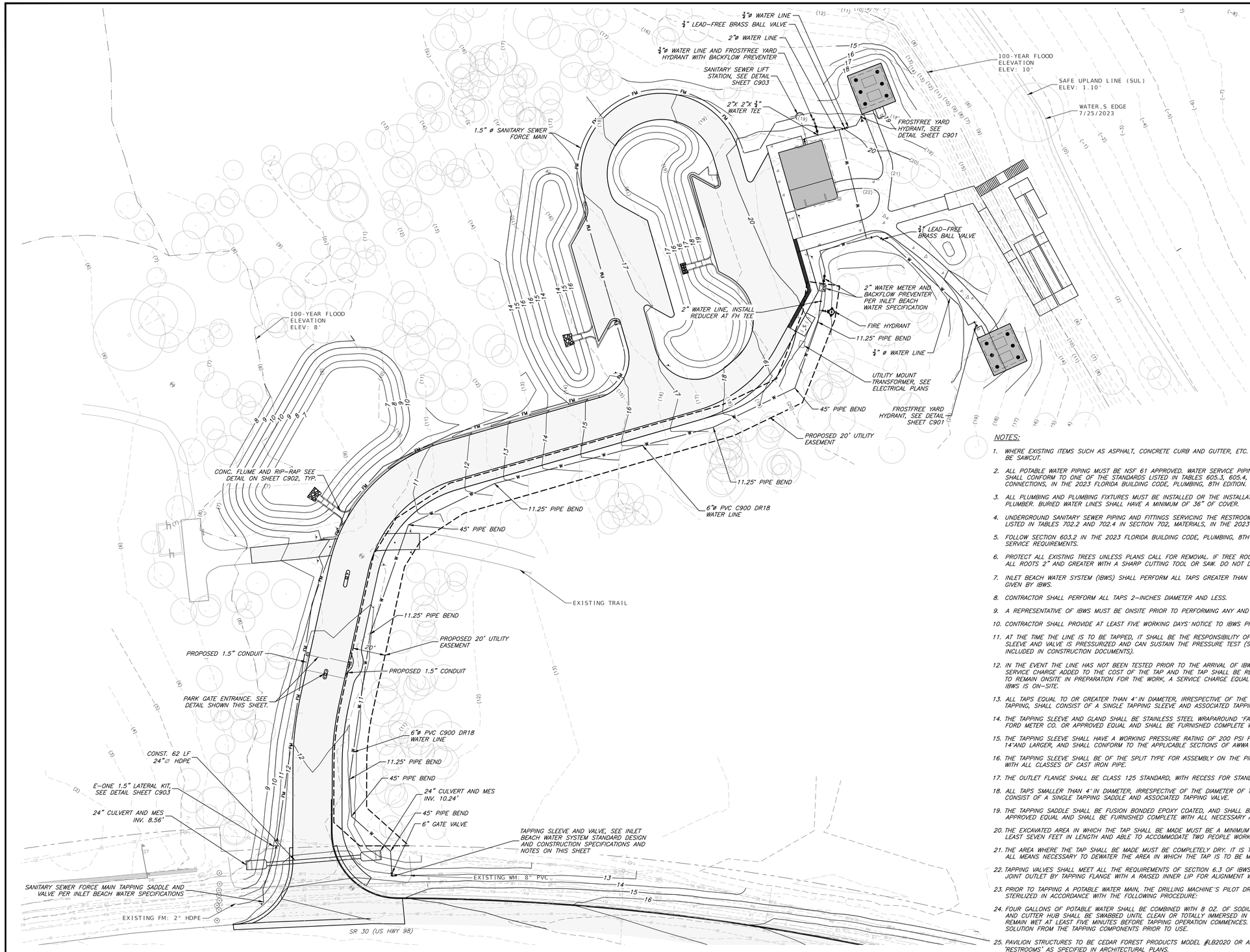
CAMP HELEN STATE PARK

SHEET TITLE: SITE PLAN NORTH SIDE PICNIC AREA

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C301

DWG:C301 March 10, 2025 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\05 Site Plan - Plan and Profile\C301 Site Plan North Side Picnic Area.dwg



LEGEND

- YARD HYDRANT
- BACKFLOW PREVENTER
- VALVE
- REDUCER
- WATER METER

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PROPOSED UTILITY PLAN NORTH SIDE PICNIC AREA

SCALE: 1" = 30'

30 0 15 30

1 inch = 30 ft.

ISSUE DATE: 02/14/2025 100% PLANS	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE	
COMP. FILE No.: 21-5436							
STATE PROJECT No.: 61307C-N3803							

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP

Consultant:

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CIVIL ENGINEERING • LAND SURVEYING • ENVIRONMENTAL CONSULTING
ENGINEERING BUSINESS NO. 2029
1957 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3344 FAX: (850)210-3345

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PROFESSIONAL REGISTRATION

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LICENSE
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State of Florida P.E. # 80485

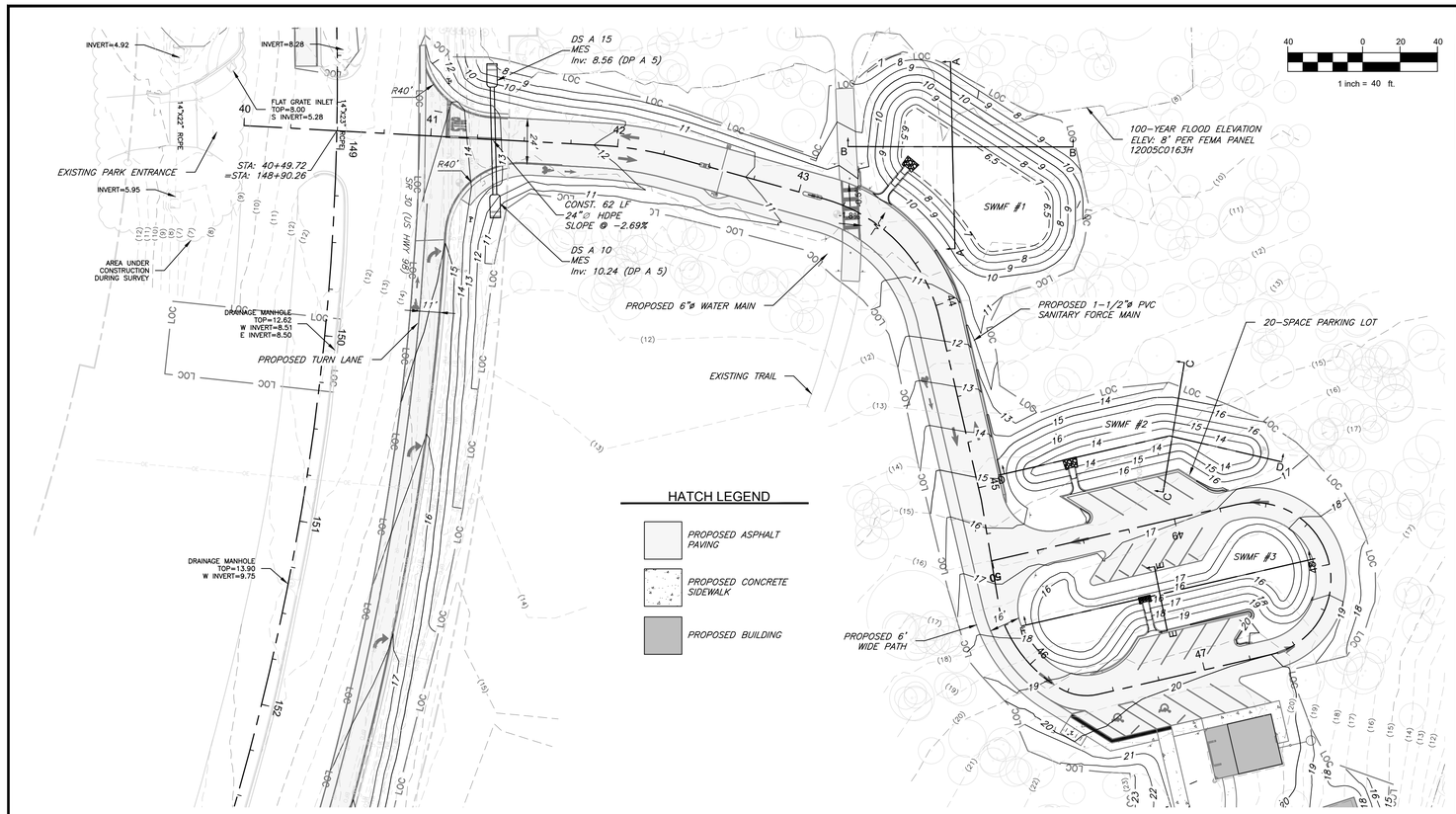
CAMP HELEN STATE PARK

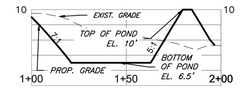
SHEET TITLE: PROPOSED UTILITY PLAN NORTH SIDE PICNIC AREA

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C302

DRCOND February 28, 2025 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\06 Site Plan - Plan and Profile\C302 Proposed Utility Plan North Side Picnic Area.dwg





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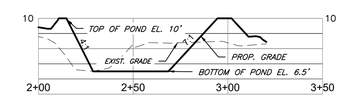

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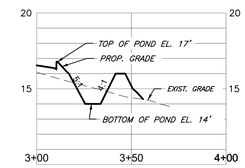

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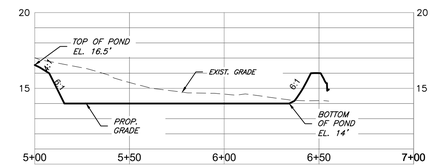
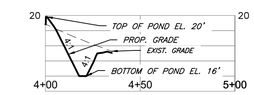


SWMF #2 SECTION D-D
Horiz. Scale: 1"=40' Vert. Scale: 1"=5'



SWMF #3 SECTION E-E
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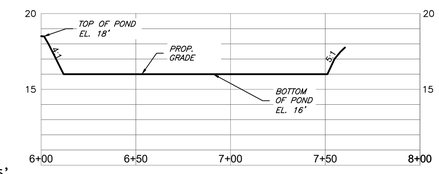
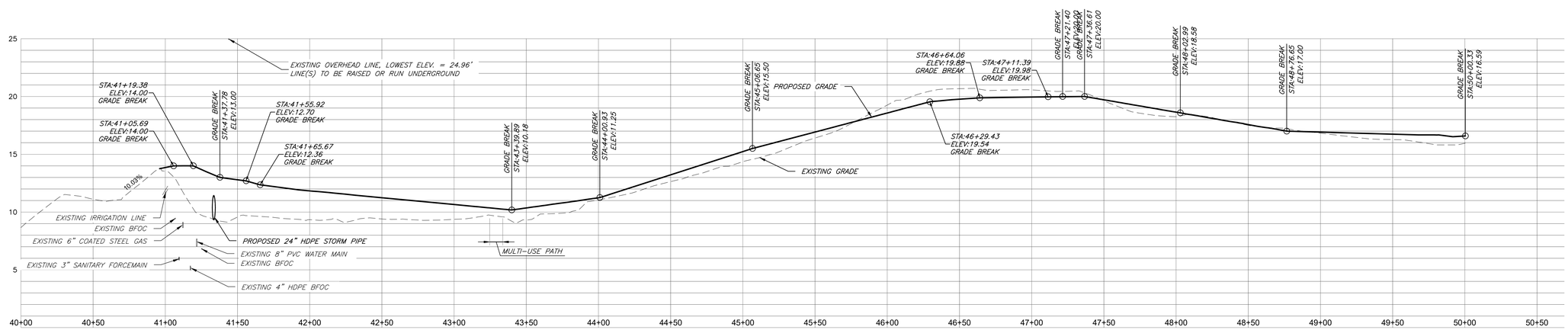


SWMF #3 SECTION F-F
Horiz. Scale: 1"=40' Vert. Scale: 1"=5'

NOTE: POND SIDES TO BE STABILIZED WITH BAHIA SEED AND FLORIDA UPLANDS MEADOW MIX. SEED AND MULCH POND BOTTOMS. DO NOT COMPACT POND BOTTOMS. PLEASE SEE LANDSCAPE PLAN SHEET, C306.



ALIGNMENT - DRIVEWAY
Horiz. Scale: 1"=40' Vert. Scale: 1"=5'

DRIVEWAY PLAN AND PROFILE

SCALE: 1" = 40'

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

Consultant:
George & Associates Consulting Engineers, Inc.
GA - ENGINEERING BUSINESS NO. 2820
ENGINEERING BUSINESS NO. 2820
8567 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3344 FAX: (850)210-3345

DESIGNER:	SMU
DRAWN BY:	TJM
REVIEWED BY:	JHP

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No: 21-5436
STATE PROJECT No: 61307C-N3803

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV
LICENSE No. 80485
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

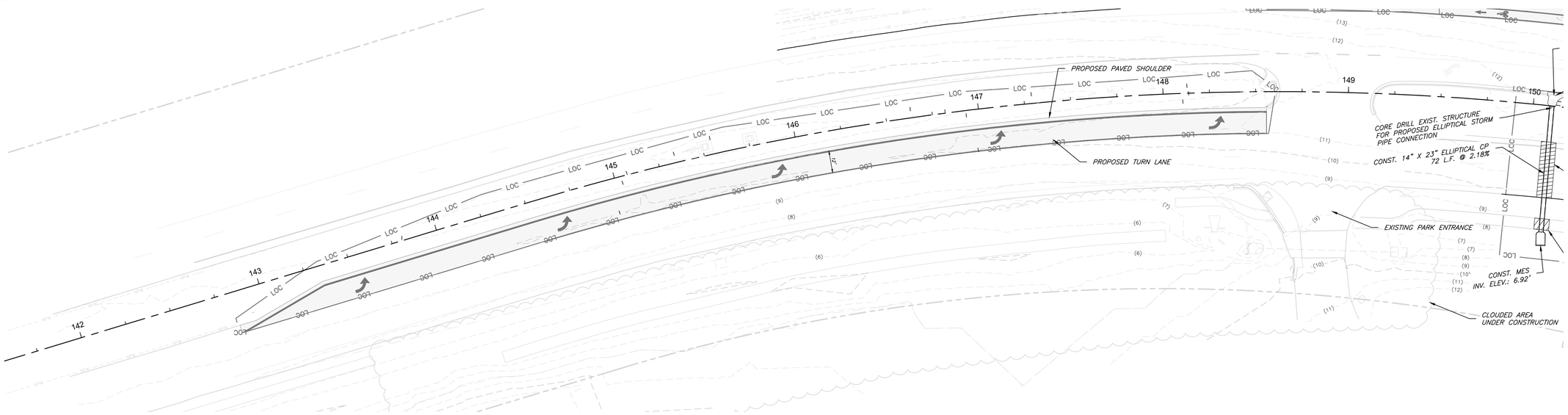
CAMP HELEN STATE PARK

SHEET TITLE: DRIVEWAY PLAN AND PROFILE

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C303

S:\DANIELSON, January 2, 2025, P:\Projects\21-5436 EDC Camp Helen State Park\Drawings\Civil\05 Site Plan - Plan and Profile\C303 Driveway Plan and Profile.dwg



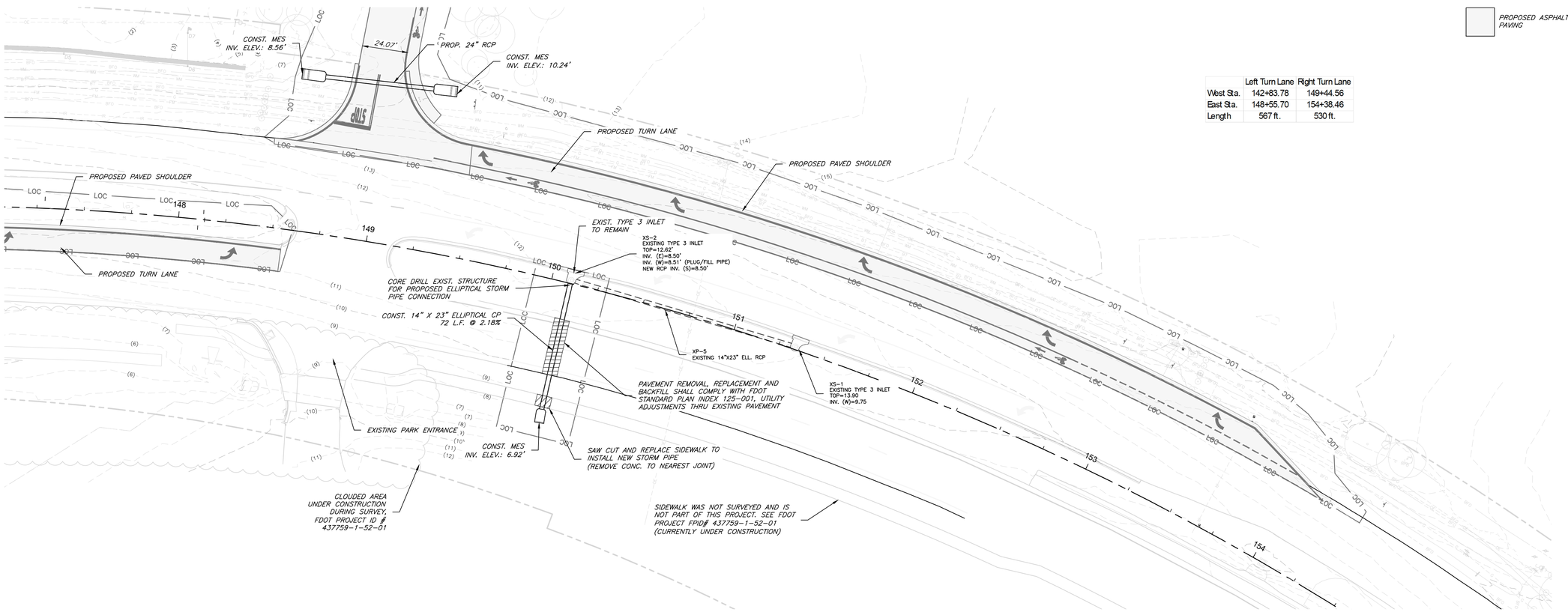
EAST BOUND LEFT TURN LANE PLAN

SCALE: 1" = 30'

LEGEND

PROPOSED ASPHALT PAVING

	Left Turn Lane	Right Turn Lane
West Sta.	142+83.78	149+44.56
East Sta.	148+55.70	154+38.46
Length	567 ft.	530 ft.



WEST BOUND RIGHT TURN LANE PLAN

SCALE: 1" = 30'

30 0 15 30

1 inch = 30 ft.

DATE	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS

COMP. FILE No.: 21-5436

STATE PROJECT No.: 61307C-N3803

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates Consulting Engineers, Inc.
dba Franklin, Jones, Inc. CERTIFICATE OF AUTHORIZATION ENGINEERING BUSINESS NO. 2029
1967 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE 850-210-3344 FAX 850-210-3345

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP
Consultant:

PROFESSIONAL REGISTRATION

JAMES H. PEERSON IV LICENSE No 86485 STATE OF FLORIDA PROFESSIONAL ENGINEER

JAMES H. PEERSON IV
State of Florida P.E. # 86485

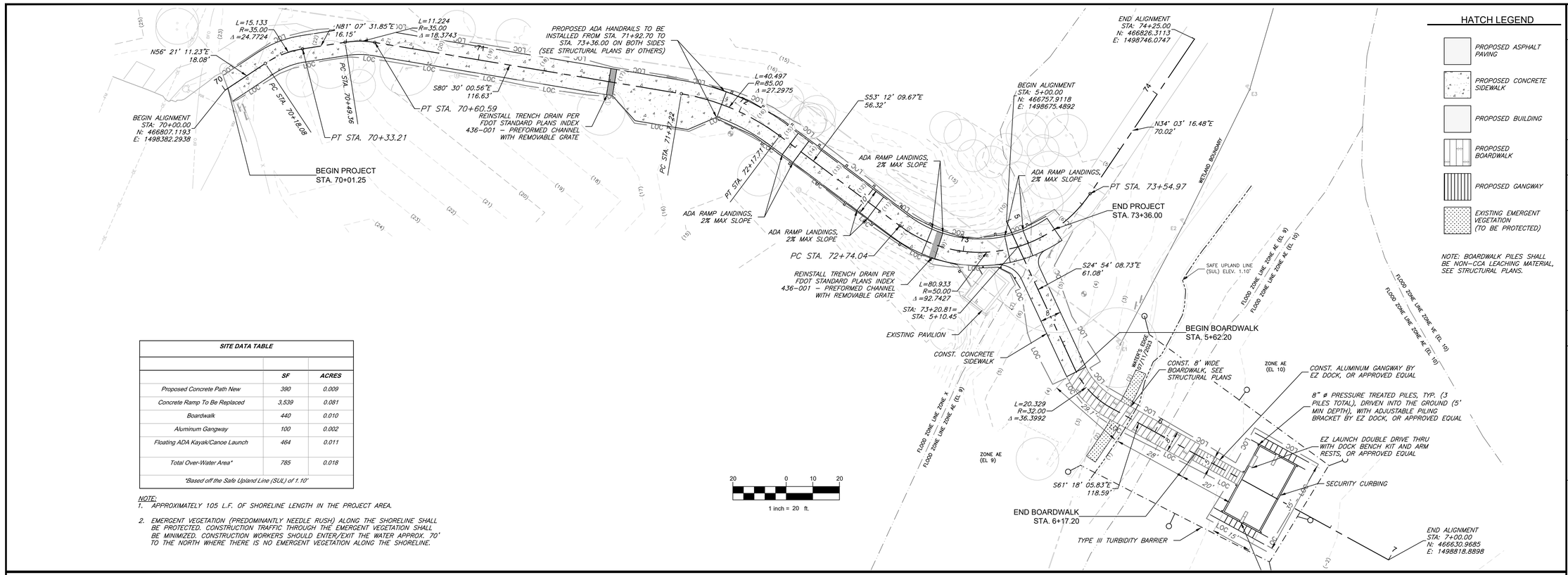
CAMP HELEN STATE PARK

SHEET TITLE: SITE PLAN TURN LANES

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C304

BILLSAMER January 7, 2025 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\05 Site Plan - Plan and Profile\C304 Site Plan Turn Lanes.dwg



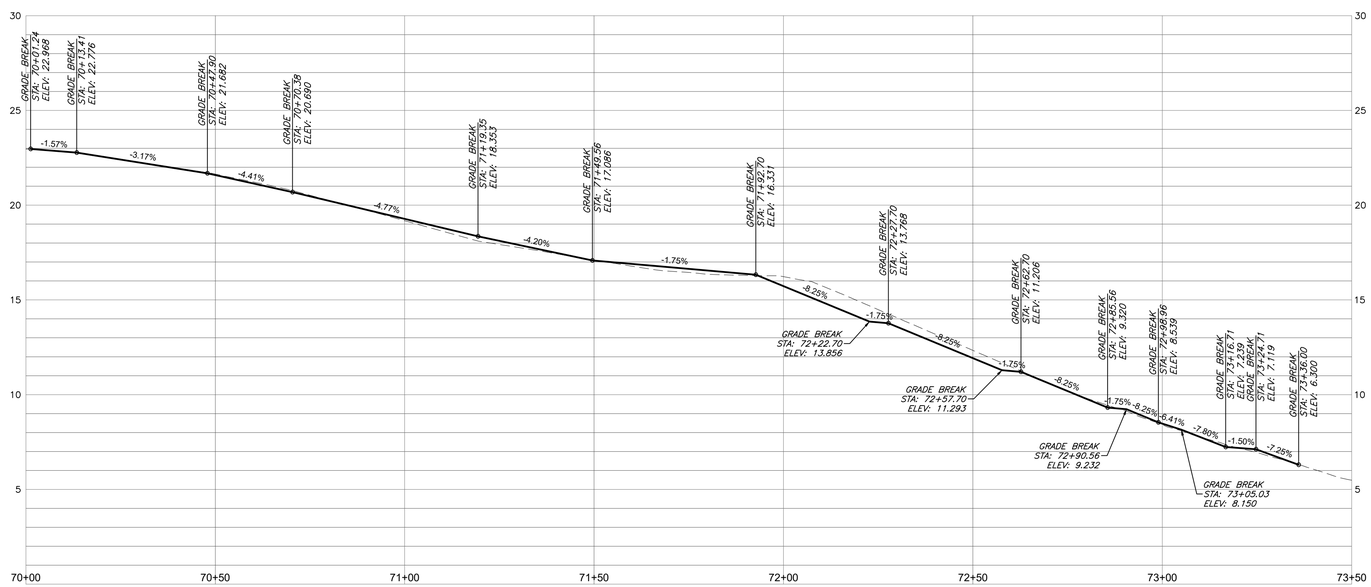
HATCH LEGEND

- PROPOSED ASPHALT PAVING
- PROPOSED CONCRETE SIDEWALK
- PROPOSED BUILDING
- PROPOSED BOARDWALK
- PROPOSED GANGWAY
- EXISTING EMERGENT VEGETATION (TO BE PROTECTED)

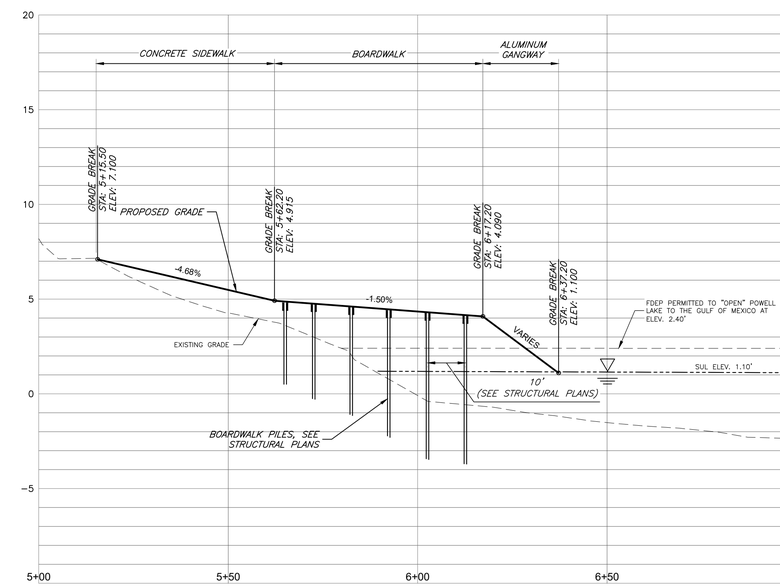
NOTE: BOARDWALK PILES SHALL BE NON-CCA LEACHING MATERIAL, SEE STRUCTURAL PLANS.

SITE DATA TABLE		
	SF	ACRES
Proposed Concrete Path New	390	0.009
Concrete Ramp To Be Replaced	3.539	0.081
Boardwalk	440	0.010
Aluminum Gangway	100	0.002
Floating ADA Kayak/Canoe Launch	464	0.011
Total Over-Water Area*	785	0.018
*Based off the Safe Upland Line (SUL) of 1.10'		

NOTE:
1. APPROXIMATELY 105 L.F. OF SHORELINE LENGTH IN THE PROJECT AREA.
2. EMERGENT VEGETATION (PREDOMINANTLY NEEDLE RUSH) ALONG THE SHORELINE SHALL BE PROTECTED. CONSTRUCTION TRAFFIC THROUGH THE EMERGENT VEGETATION SHALL BE MINIMIZED. CONSTRUCTION WORKERS SHOULD ENTER/EXIT THE WATER APPROX. 70' TO THE NORTH WHERE THERE IS NO EMERGENT VEGETATION ALONG THE SHORELINE.



ALIGNMENT – MULTI-USE CONCRETE PATH
Horiz. Scale: 1"=20' Vert. Scale: 1"=4'



ALIGNMENT – CONCRETE PATH EXTENSION & BOARDWALK
Horiz. Scale: 1"=20' Vert. Scale: 1"=4'

ADA KAYAK LAUNCH PLAN & PROFILE

SCALE: 1" = 20'

DATE	SYMBOL	REVISION	DATE	SYMBOL	REVISION

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No: 21-5436
STATE PROJECT No: 61307C-N3803

DESIGNER: SMU
DRAWN BY: TJM
REVIEWED BY: JHP

Consultant:
George & Associates Consulting Engineers, Inc.
CIVIL • ENVIRONMENTAL • STORMWATER • WATER • WASTEWATER • GAS • LAND SURVEYING
ENGINEERING BUSINESS NO. 7879
1567 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-5344 FAX: (850)210-5345

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV
LICENSE No 80465
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80465

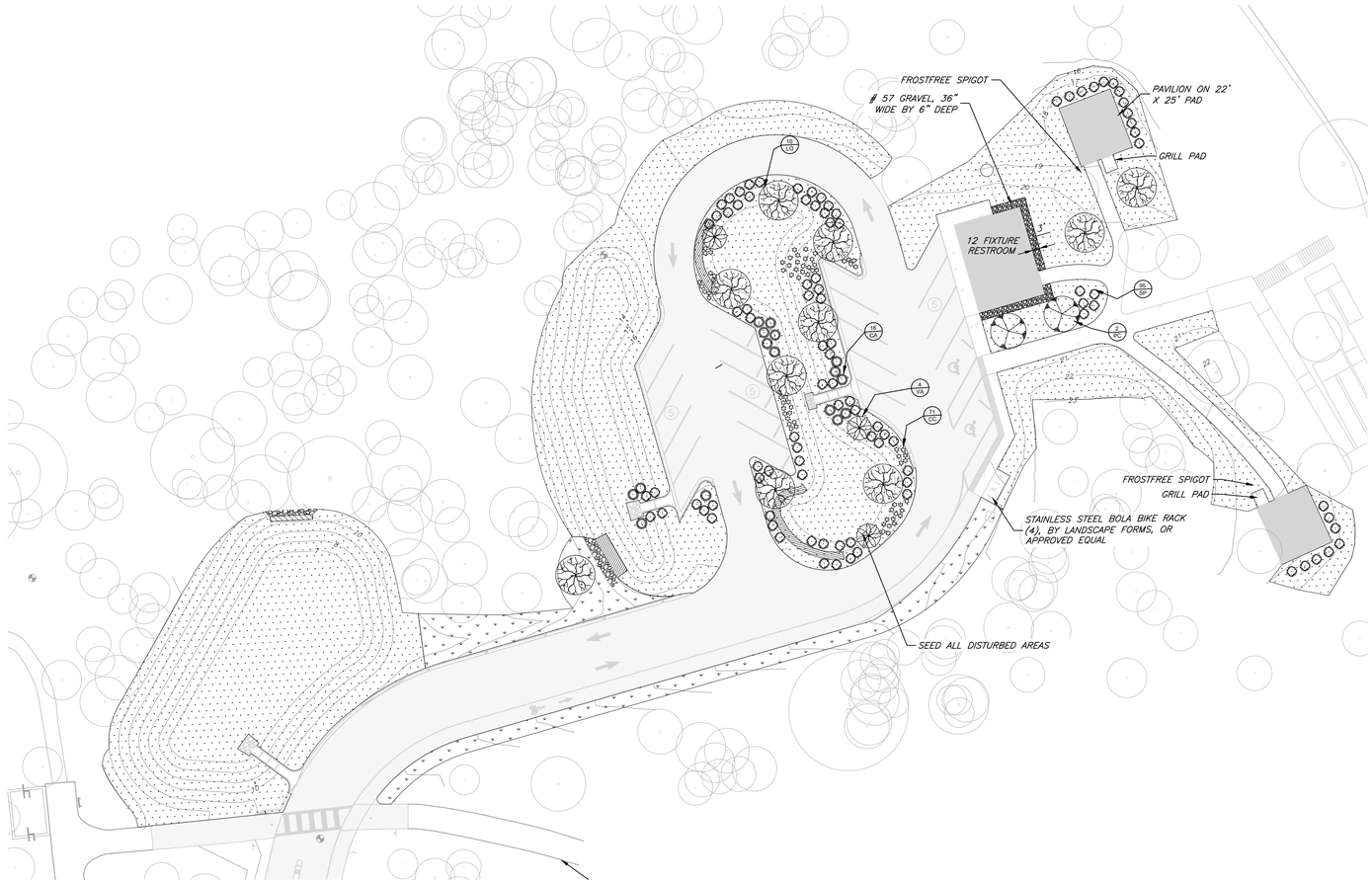
CAMP HELEN STATE PARK

SHEET TITLE: ADA KAYAK LAUNCH PLAN & PROFILE

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C305

S:\DPR\SON, March 11, 2025 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\05 Site Plan - Plan and Profile\C305 ADA Kayak Launch Plan & Profile.dwg



LANDSCAPING NOTES

1. LANDSCAPE CONTRACTOR SHALL VERIFY SIZE, LOCATIONS OF ALL PLANTING AREAS AND APPROPRIATE PLANT QUANTITIES NEEDED PRIOR TO INSTALLATION. NOTIFY ENGINEER OF RECORD OF DETECTED DISCREPANCIES.
2. PERFORM ALL WORK IN STRICT ACCORDANCE WITH SOUND HORTICULTURAL PRACTICES.
3. CLEARANCES OF 7 1/2' SHALL BE MAINTAINED TO THE FRONT AND SIDES AND 4' TO THE REAR OF ALL FIRE APPLIANCES (I.E., HYDRANTS, BACKFLOW PREVENTERS, POST INDICATORS, VALVES, FIRE DEPARTMENT CONNECTIONS).
4. MULCH NON-SEEDED DISTURBED AREAS ADJACENT TO IMPERVIOUS AREAS WITH 3" OF PINE STRAW.
5. STAKE TREES AS NECESSARY.
6. INSTALL TREES AND PLANTS GRADED FLORIDA #1 OR BETTER AS DESCRIBED IN THE MOST RECENT EDITION OF "GRADES AND STANDARDS FOR NURSERY PLANTS", STATE OF FLORIDA.
7. IF SPECIFIED SIZE OR SPECIES IS UNAVAILABLE, SUBMIT PROPOSED REPLACEMENT PLANT(S) TO THE ENGINEER OF RECORD FOR APPROVAL, PRIOR TO PURCHASING.
8. PLANT TREES, SHRUBS AND PERENNIALS IN A NATURAL MANNER. PLANTING IS TO LOOK SIMILAR TO THE SURROUNDING UNDISTURBED AREAS. AVOID EVEN SPACING AND PLANTING IN STRAIGHT LINES.
9. BACKFILL ALL PLANTING WITH A MIXTURE OF ½ ON SITE SOIL AND ½ CLEAN FRIABLE TOPSOIL.
10. PLANTING HOLES SHOULD BE TWICE THE DIAMETER OF THE ROOT BALL AND 2"-4" DEEPER THAN THE ROOT BALL HEIGHT.
11. ONCE PLANTED, PLANTS SHOULD BE AT THE SAME LEVEL IN RELATION TO THE GROUND AS THEY WERE PRIOR TO TRANSPLANTING.
12. RESTORE ALL DISTURBED AREAS WITH SPECIFIED SEED OR 3" OF PINE STRAW. DISTURBED SOIL SHALL NOT BE LEFT EXPOSED AND VULNERABLE TO EROSION FROM STORM WATER.
13. LANDSCAPE IMPROVEMENTS SHALL BE INSTALLED BY THE CONTRACTOR PER FDOT STANDARD SPECIFICATION 580 AND INDEX 544.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY IRRIGATION.
15. THE WARRANTY SHALL BEGIN AFTER THE INITIAL LANDSCAPE INSPECTION AND ACCEPTANCE, OR AS PER THE CONTRACT DOCUMENTS.
16. INSPECTION SHALL BE MADE BY THE OWNER OR OWNERS REPRESENTATIVE WITHIN 1 WEEK OF WRITTEN NOTIFICATION FROM THE LANDSCAPE CONTRACTOR THAT INSTALLATION IS COMPLETE.
17. TREES AND SHRUBS SHALL HAVE A 1 YEAR WARRANTY.
18. PLANTS ARE GUARANTEED TO BE HEALTHY AND FLOURISHING FOR 1 YEAR FROM INITIAL INSPECTION ACCEPTANCE.
19. REPLACEMENT PLANTS MUST BE THE SAME SIZE AS THE ORIGINAL.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND MAINTAINING THE LANDSCAPING FOR THE WARRANTY PERIOD WHICH IS 1 YEAR.
21. CONTRACTOR SHALL NOT COMPACT POND BOTTOMS.
22. MULCH OVER SEEDED POND BOTTOM WITH ¼" – ½" THICK LAYER OF SEEDLESS STRAW.

UTILITY NOTES

1. THE LOCATION(S) OF UTILITIES SHOWN ON THE PLANS SHALL BE CONSIDERED APPROXIMATE.
2. CONTRACTOR SHOULD CONTACT THE SUNSHINE STATE 811 ONE CALL SYSTEM 1-800-432-4770 PRIOR TO ANY DIGGING SO THAT UNDERGROUND UTILITIES MAY BE FIELD LOCATED.

Symbol	I.D.	Quantity	Scientific Name	Common Name	Installed Size	Spacing	Remarks
	LO	10	Quercus geminata	Sand Live Oak	30 GAL	Per Plan	1.75"-2" Cal., 8'-9', 6' Min. clearance from paved surfaces and 10' from buildings, measured from the center of the plant.
	PC	2	Pinus clausa	Sand Pine	30 GAL	Per Plan	2"-2.25" Cal., 9'-10', 6' Min. clearance from paved surfaces and 10' from buildings, measured from the center of the plant.
	VA	3	Vaccinium arboreum	Sparkleberry	7 GAL	Per Plan	
	SP	95	Seronoa repens	Saw Palmetto	7 GAL	Per Plan	Plant in natural drifts, 3' Min. clearance from paved surfaces, measured from the center of the plant.
	CC	71	Conradina canescens	False Rosemary	1 GAL	Per Plan	Plant in natural drifts, 1.5' Min. clearance from paved surfaces, measured from the center of the plant.
	CA	16	Callicarpa americana	American beautyberry	7 GAL	Per Plan	Plant in natural drifts, 3' Min. clearance from paved surfaces, measured from the center of the plant.

LEGEND

GRASS SEED MIX – OVER 50% PENSACOLA BAHIA SEED

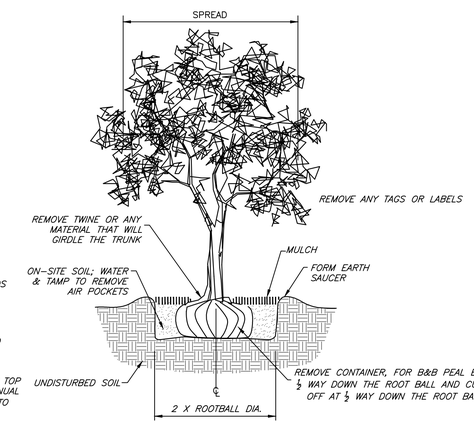
FLORIDA UPLAND MEADOW MIX, ERNST SEEDS ITEM #ERNMX-601, OR APPROVED EQUAL.*

STORM WATER POND WEIR LOCATIONS, SEED WITH GRASS SEED MIX

*WILDFLOWER MIX MUST BE COMBINED WITH A COVER CROP OF BROWN TOP MILLET AT A RATE OF 10 LBS PER ACRE FROM APRIL TO SEPT OR ANNUAL RYE AT A RATE OF 30 LBS/ACRE FROM OCT-MARCH. FL UPLAND MIX TO BE APPLIED AT A RATE OF 15 LBS PER ACRE. SEE MANUFACTURERS INSTRUCTIONS FOR MORE DETAILS.

REFERENCE LEGEND

SC — QUANTITY OF PLANTINGS; PLANT I.D.



PLANT SO THAT TOP OF ROOT FLARE IS 1" ABOVE THE FINISHED GRADE

PURSUANT TO A.A.N. STANDARDS CALIPER MEASUREMENTS SHALL BE MADE 6 INCHES ABOVE GROUND LEVEL (ROOTBALL) UP TO AND INCLUDING 4 INCH CALIPER; 12 INCHES ABOVE GROUND LEVEL FOR LARGER SIZES.

TREE PLANTING DETAIL

SCALE: NTS

30 0 15 30

1 inch = 30 ft.

LANDSCAPE PLAN

SCALE: 1" = 30'

ISSUE DATE: 02/14/2025 100% PLANS	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
COMP. FILE No.: 21-5436						
STATE PROJECT No.: 61307C-N3803						

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates Consulting Engineers, Inc.
CIVIL • ENVIRONMENTAL • STRUCTURAL • TRANSPORTATION
ENGINEERING BUSINESS NO. 2029
1967 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3344 FAX: (850)210-3345

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP
Consultant:

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV LICENSE No 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

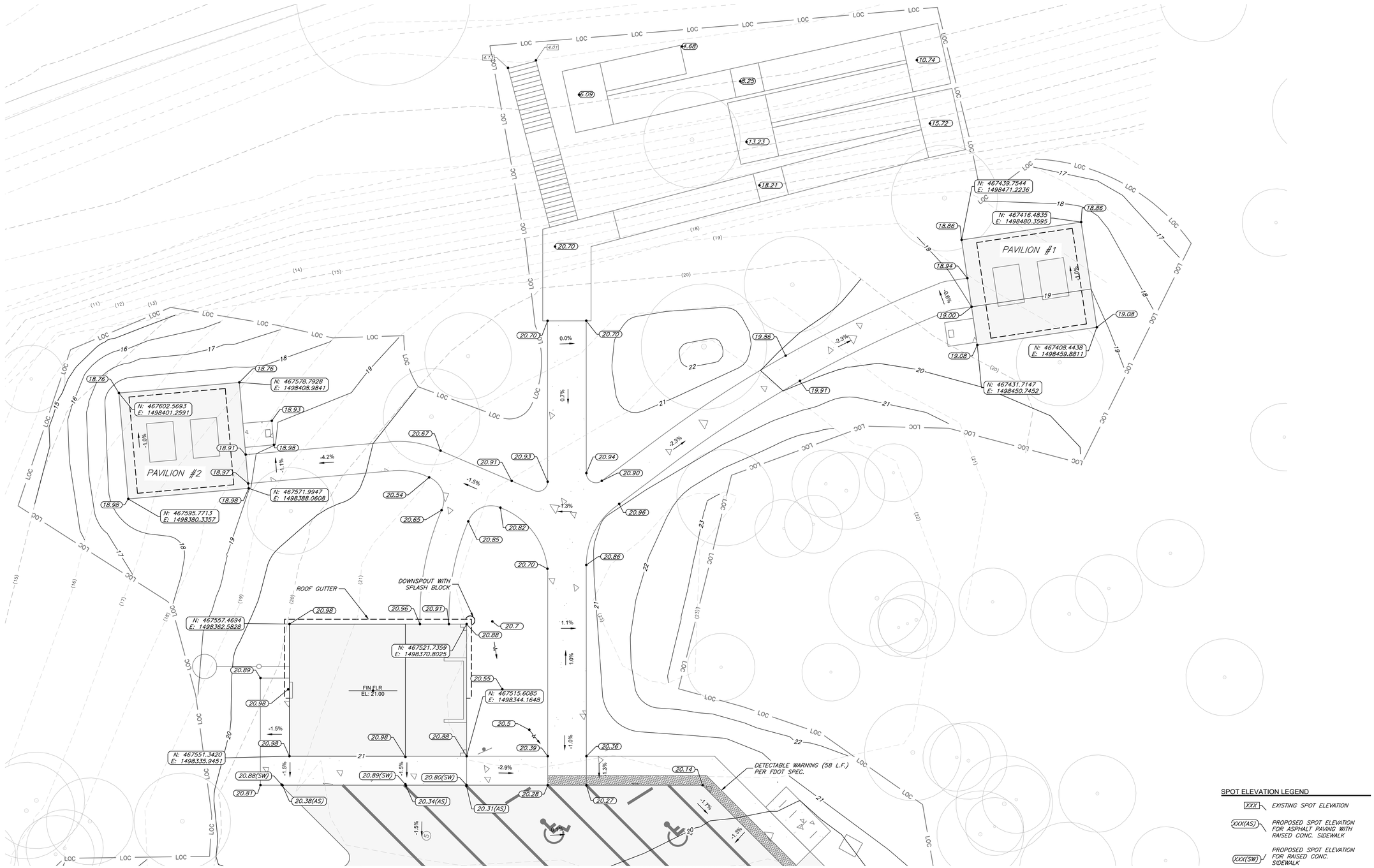
CAMP HELEN STATE PARK

SHEET TITLE: LANDSCAPE PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C306

SSILSAMER February 3, 2025 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\05 Site Plan - Plan and Profile\C306 Landscape Plan.dwg



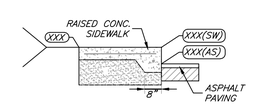
NORTH PICNIC AREA GRADING PLAN

SCALE: 1" = 10'

1 inch = 10 ft.

SPOT ELEVATION LEGEND

- XXX — EXISTING SPOT ELEVATION
- XXX(AS) — PROPOSED SPOT ELEVATION FOR ASPHALT PAVING WITH RAISED CONC. SIDEWALK
- XXX(SW) — PROPOSED SPOT ELEVATION FOR RAISED CONC. SIDEWALK
- XXX — PROPOSED TYPICAL SPOT ELEVATION



ISSUE DATE: 02/14/2025 100% PLANS	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
COMP. FILE No.: 21-5436						
STATE PROJECT No.: 61307C-N3803						

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates Consulting Engineers, Inc.
DBA: George & Associates, Inc. CERTIFICATE OF AUTHORIZATION ENGINEERING BUSINESS NO. 2029
10657 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3344 FAX: (850)210-3345

DESIGNER: SMU
DRAWN BY: TJM
REVIEWED BY: JHP
Consultant:

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV LICENSE No. 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

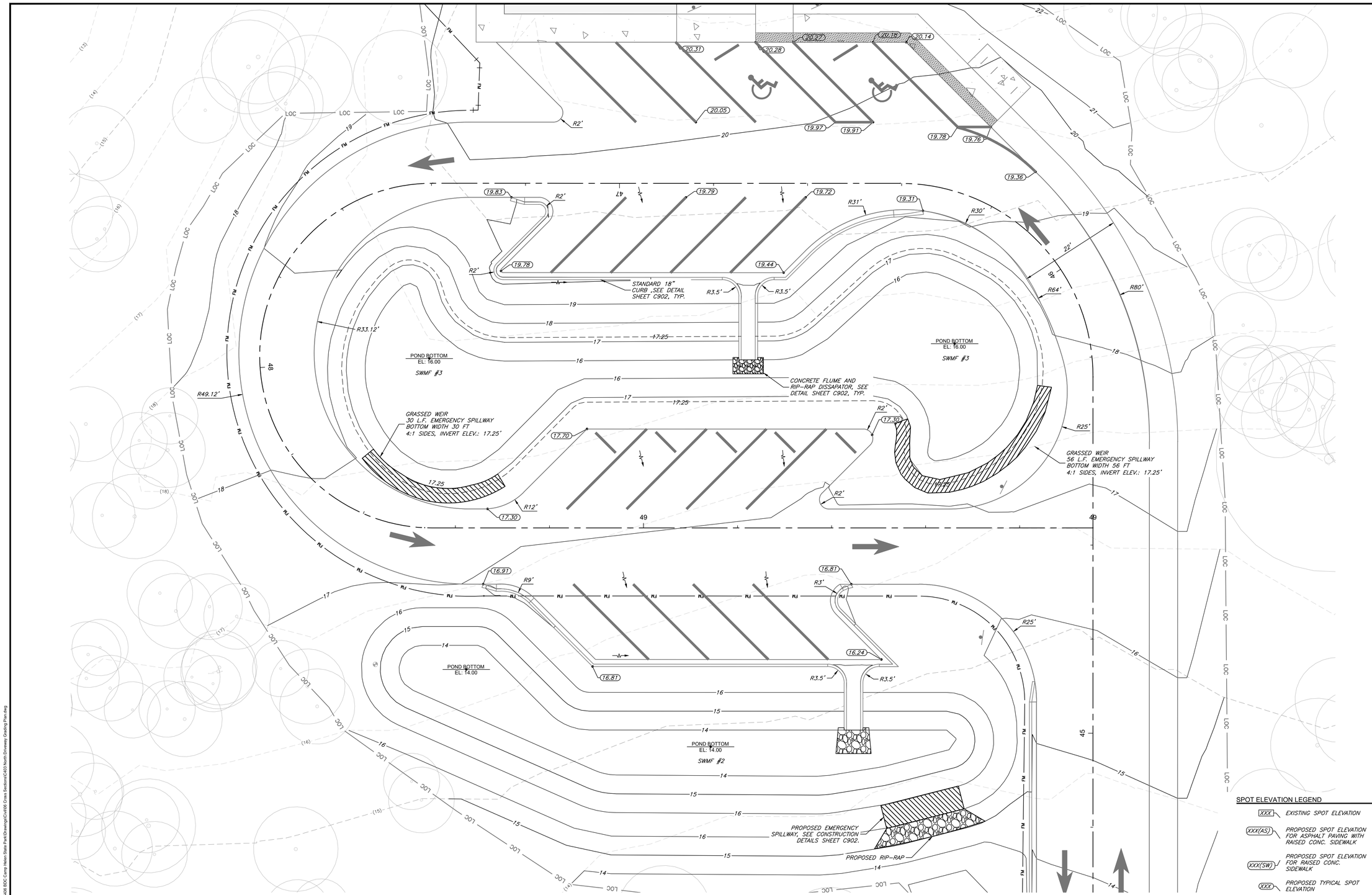
PROJECT TITLE: CAMP HELEN STATE PARK

SHEET TITLE: NORTH PICNIC AREA GRADING PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C401

JPETERSON July 6, 2023 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\06 Cross Sections\C401 North Picnic Area Grading Plan.dwg



NORTH PARKING LOT GRADING PLAN

SCALE: 1" = 10'

SPOT ELEVATION LEGEND

- XXX — EXISTING SPOT ELEVATION
- XXX(AS) — PROPOSED SPOT ELEVATION FOR ASPHALT PAVING WITH RAISED CONC. SIDEWALK
- XXX(SW) — PROPOSED SPOT ELEVATION FOR RAISED CONC. SIDEWALK
- XXX — PROPOSED TYPICAL SPOT ELEVATION

RAISED CONC. SIDEWALK — XXX — XXX(SW) — XXX(AS) — 8" — ASPHALT PAVING

DESIGNER: SMU
DRAWN BY: TJM
REVIEWED BY: JHP
Consultant:

George & Associates Consulting Engineers, Inc.
CIVIL • ENVIRONMENTAL • GEOTECHNICAL • SURVEYING
ENGINEERING BUSINESS NO. 2029
1567 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3344 FAX: (850)210-3345

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No.: 61307C-N3803

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION
JAMES H. PETERSON III — No 80485 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
JAMES H. PETERSON III
State of Florida P.E. # 80485

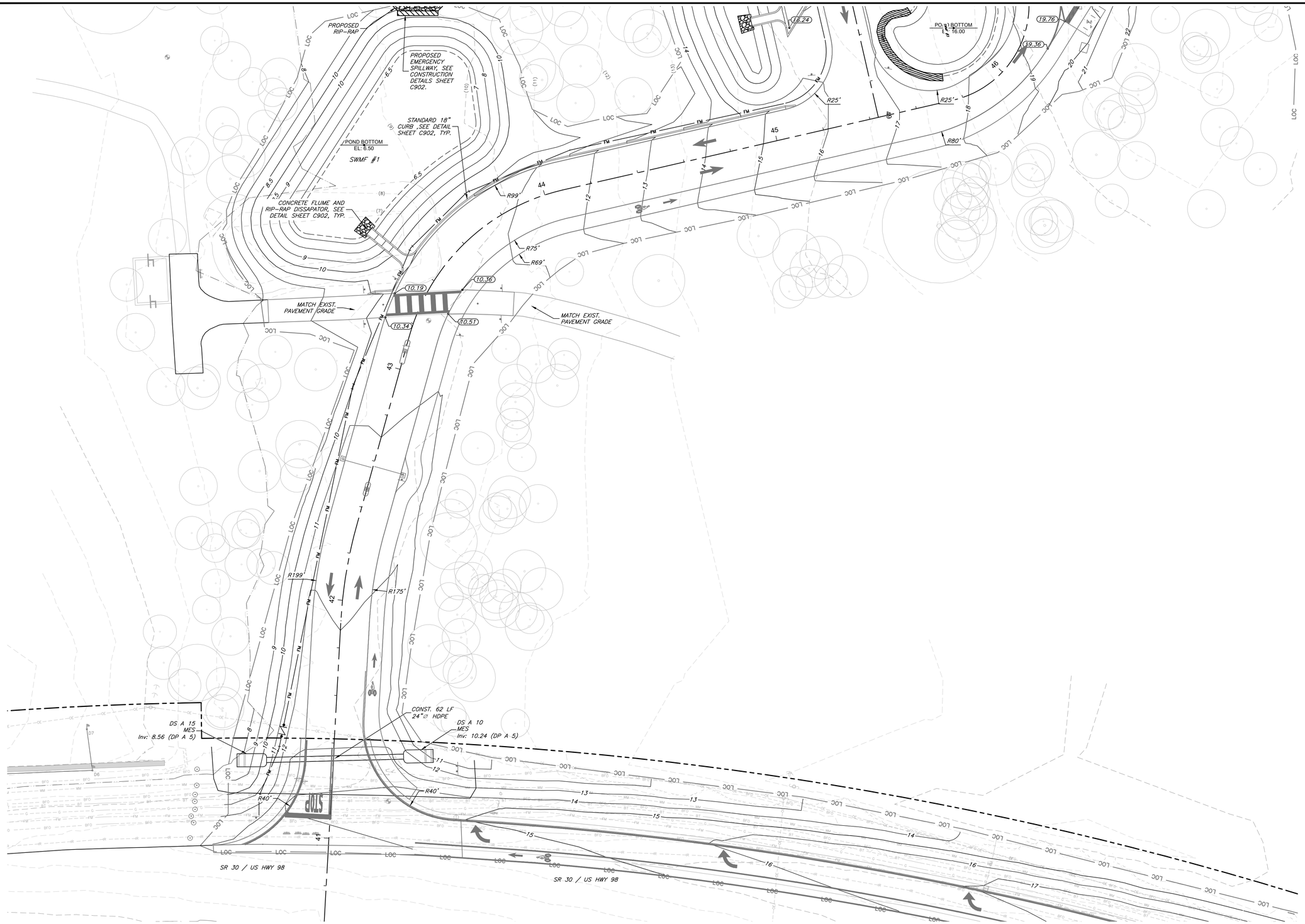
CAMP HELEN STATE PARK

SHEET TITLE: NORTH PARKING LOT GRADING PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C402

TMCCAD8, December 20, 2024, P:\Projects21-5436 BDC Camp Helen State Park\Drawings\Civil\06 Cross Sections\C403 North Driveway Grading Plan.dwg



NORTH DRIVEWAY GRADING PLAN

SCALE: 1" = 20'

20 0 10 20

1 inch = 20 ft.

DESIGNER:	SMU
DRAWN BY:	TJM
REVIEWED BY:	JHP
Consultant:	George & Associates Consulting Engineers, Inc.

CERTIFICATE OF AUTHORIZATION ENGINEERING BUSINESS NO. 2029

19967 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3344 FAX: (850)210-3345

ISSUE DATE: 02/14/2025 100% PLANS

COMP. FILE No.: 21-5436

STATE PROJECT No.: 61307C-N3803

SYMBOL	REVISION	DATE

SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION

JAMES H. PETERSON IV LICENSE No 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER

JAMES H. PETERSON III
State of Florida P.E. # 80485

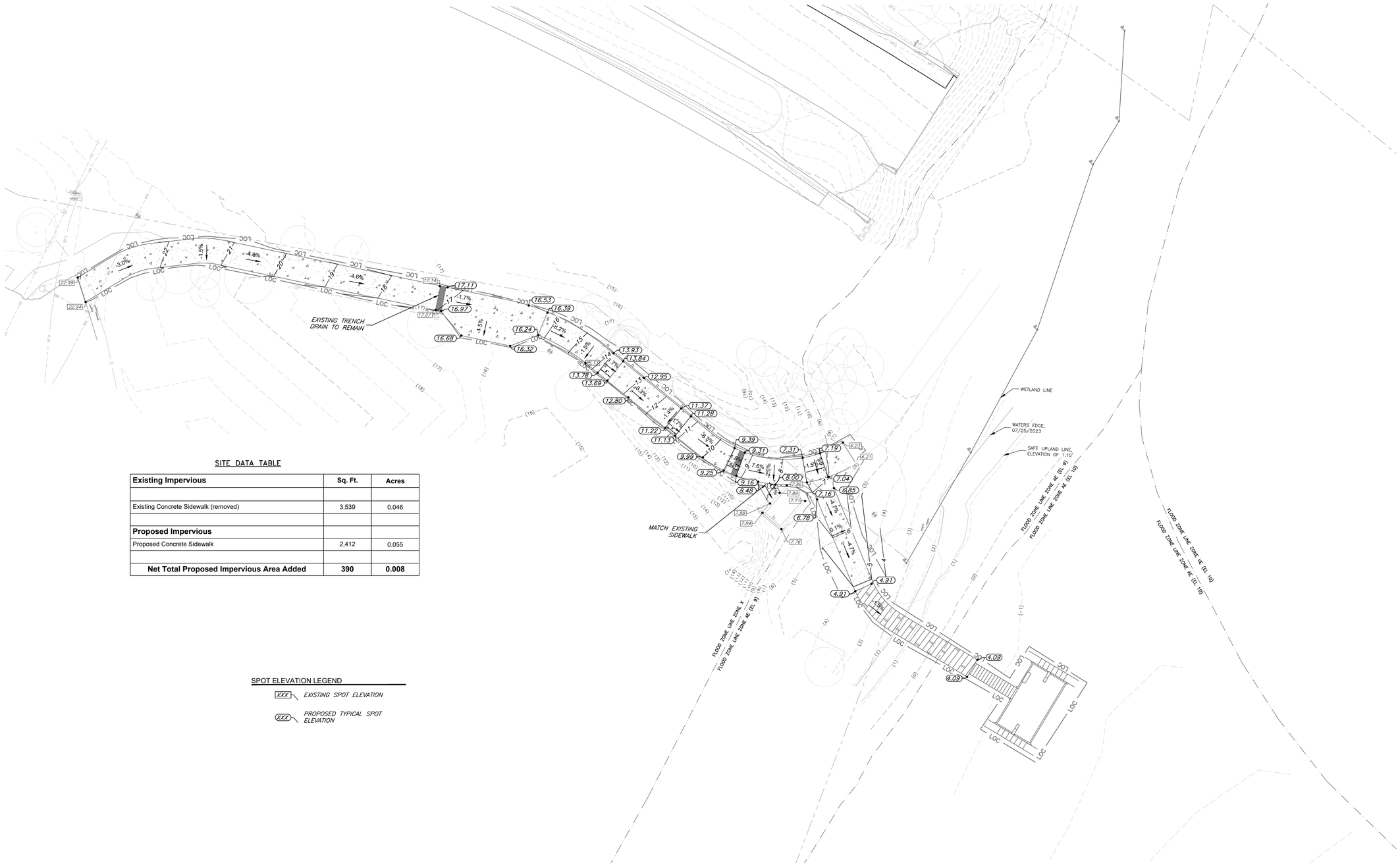
CAMP HELEN STATE PARK

SHEET TITLE: NORTH DRIVEWAY GRADING PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C403

TMCCAIE July 8, 2023 P:\Projects\21-5436 EDC Camp Helen State Park\Drawings\CA\100 Cross Sections\C403 North Driveway Grading Plan.dwg



SITE DATA TABLE

Existing Impervious	Sq. Ft.	Acres
Existing Concrete Sidewalk (removed)	3,539	0.046
Proposed Impervious		
Proposed Concrete Sidewalk	2,412	0.055
Net Total Proposed Impervious Area Added	**390**	**0.008**

SPOT ELEVATION LEGEND

XXX — EXISTING SPOT ELEVATION

XXX — PROPOSED TYPICAL SPOT ELEVATION

ADA KAYAK LAUNCH GRADING PLAN

SCALE: 1" = 20'

20 0 10 20

1 inch = 20 ft.

DESIGNER: SMU
DRAWN BY: TJM
REVIEWED BY: JHP
Consultant:

George & Associates Consulting Engineers, Inc.
CIVIL ENGINEERING • SURVEYING • ENVIRONMENTAL CONSULTING
ENGINEERING BUSINESS NO. 7870
1567 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3344 FAX: (850)210-3345

SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
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Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION
JAMES H. PEDERSON IV LICENSE No 86485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PEDERSON IV
State of Florida P.E. # 86485

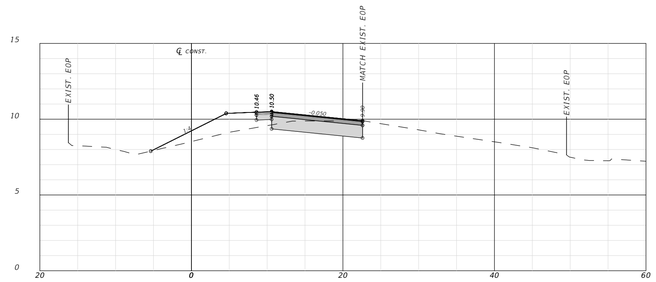
CAMP HELEN STATE PARK

SHEET TITLE: ADA KAYAK LAUNCH GRADING PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C404

S:\DWR\SON, February 14, 2025 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\06 Cross Sections\C404 ADA Kayak Launch Grading Plan.dwg



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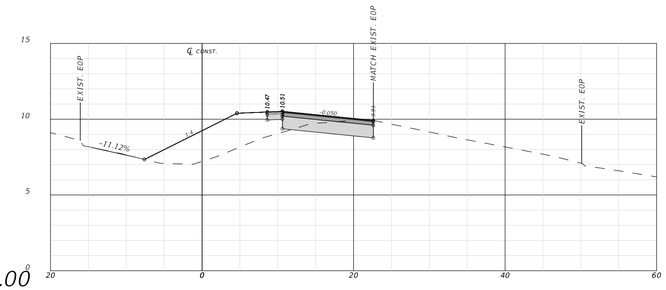

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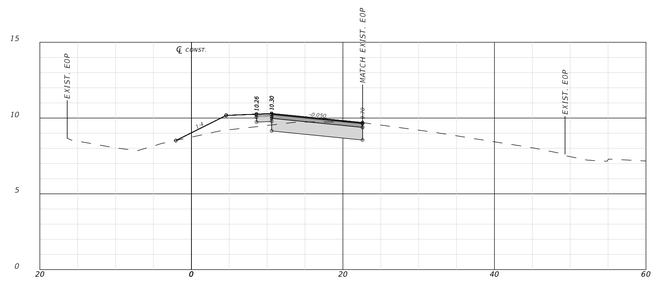

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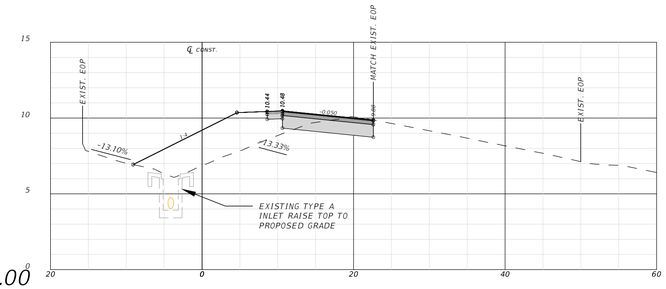

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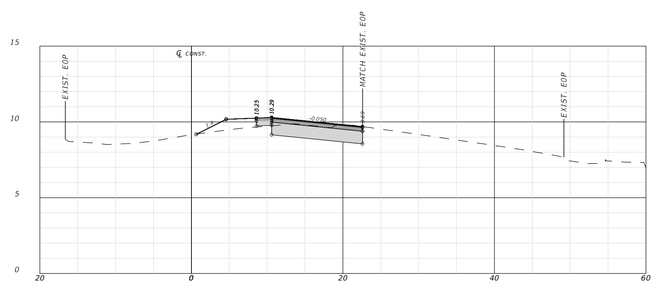

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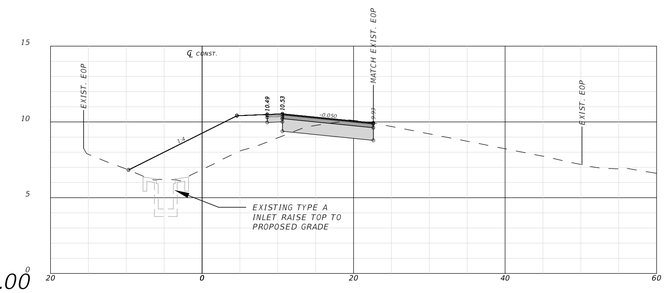

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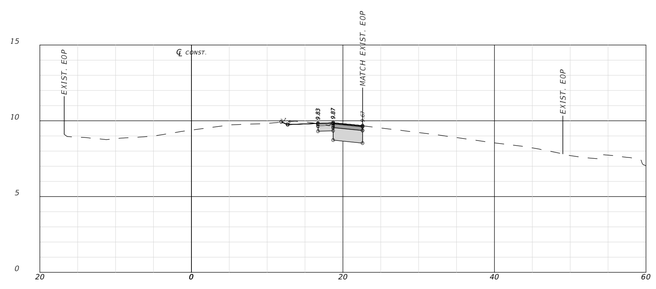

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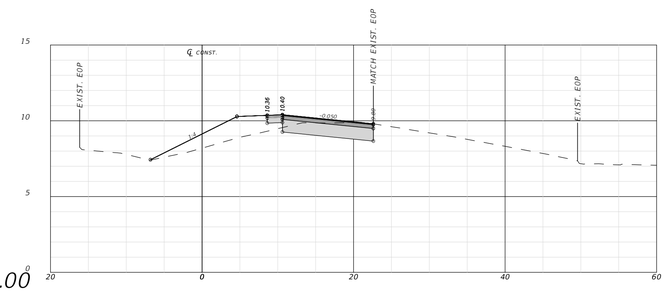


145+00.00

EAST BOUND TURN LANE CROSS SECTIONS

HORIZ SCALE: 1" = 10' VERT. SCALE: 1" = 5'

JPETERSON, November 1, 2024, P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\06 Cross Sections\C405 North Turn Lane Cross Sections.dwg

ISSUE DATE: 02/14/2025 100% PLANS	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
COMP. FILE No.: 21-5436						
STATE PROJECT No: 61307C-N3803						

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates
Consulting Engineers, Inc.
GA ENGINEERING CERTIFICATE OF AUTHORIZATION
ENGINEERING BUSINESS NO. 2929
10367 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE (850)210-5344 FAX (850)210-5345

DESIGNER: SMU
DRAWN BY: TJM
REVIEWED BY: JHP
Consultant:

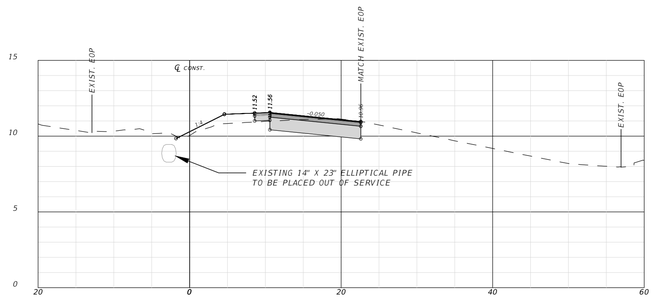
PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV
STATE OF FLORIDA
No. 80485
JAMES H. PETERSON IV
State of Florida P.E. # 80485

CAMP HELEN STATE PARK

SHEET TITLE:
EAST BOUND TURN LANE CROSS SECTIONS

PROJECT TITLE:
PARK IMPROVEMENT

SHEET NO.
C405



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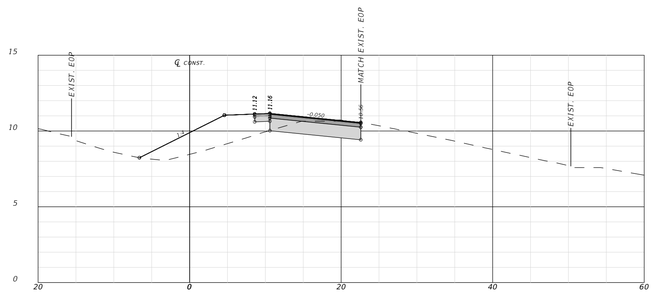

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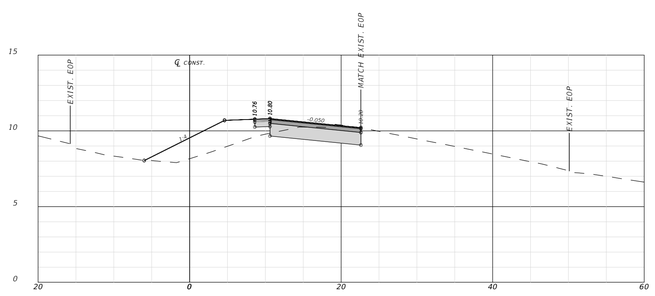

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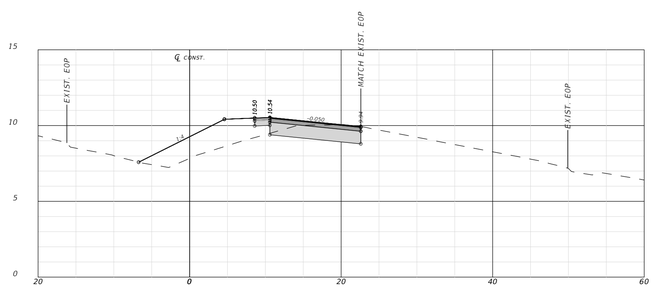


147+00.00

EAST BOUND TURN LANE CROSS SECTIONS

HORIZ SCALE: 1" = 10' VERT. SCALE: 1" = 10'

SYMBOL	REVISION	DATE

SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS

COMP. FILE No.: 21-5436

STATE PROJECT No: 61307C-N3803

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates
Consulting Engineers, Inc.
GA ENGINEERING CERTIFICATE OF AUTHORIZATION NO. 1 - LICENSE ENGINEERING BUSINESS NO. 2929
1667 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE (850)210-3344 FAX (850)210-3345

DESIGNER: SMU
DRAWN BY: TJM
REVIEWED BY: JHP
Consultant:

PROFESSIONAL REGISTRATION

JAMES H. PETERSON IV
LICENSED
No. 80485
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JAMES H. PETERSON IV
State of Florida P.E. # 80485

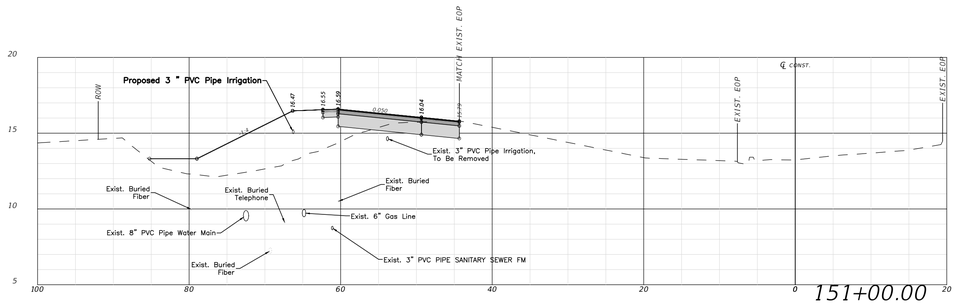
CAMP HELEN STATE PARK

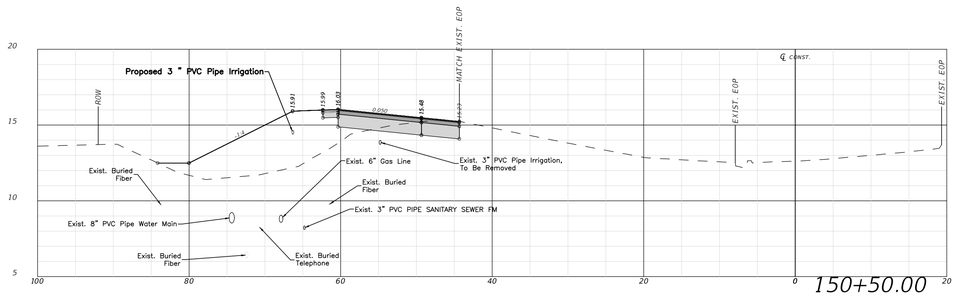
SHEET TITLE: EAST BOUND TURN LANE CROSS SECTIONS

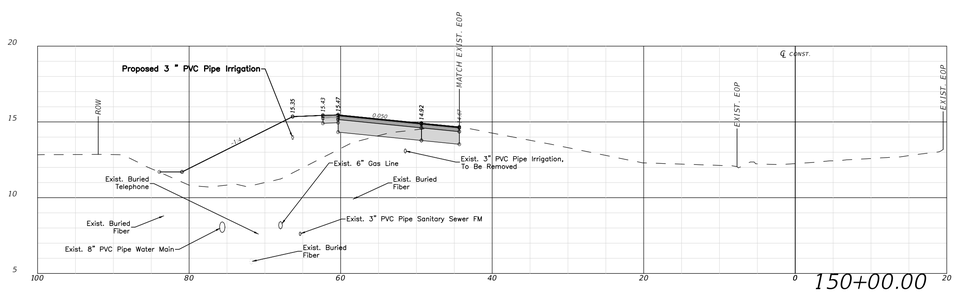
PROJECT TITLE: PARK IMPROVEMENT

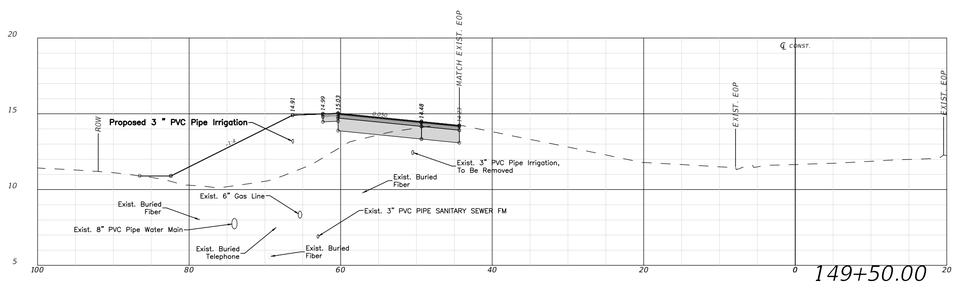
SHEET NO.
C406

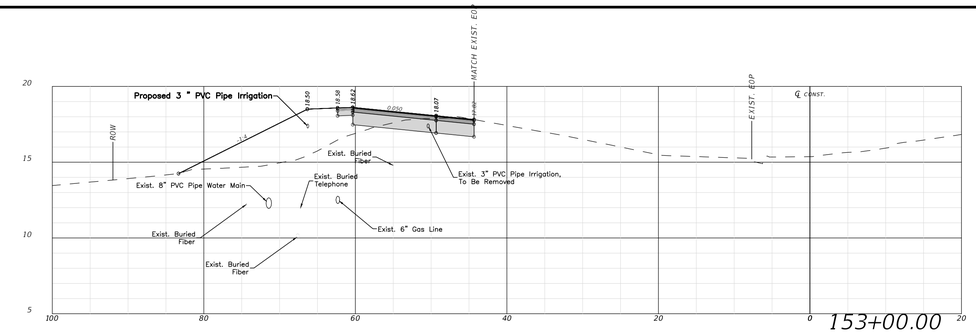
JPETERSON November 1, 2024 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\06 Cross Sections\C406 North Turn Lane Cross Sections.dwg

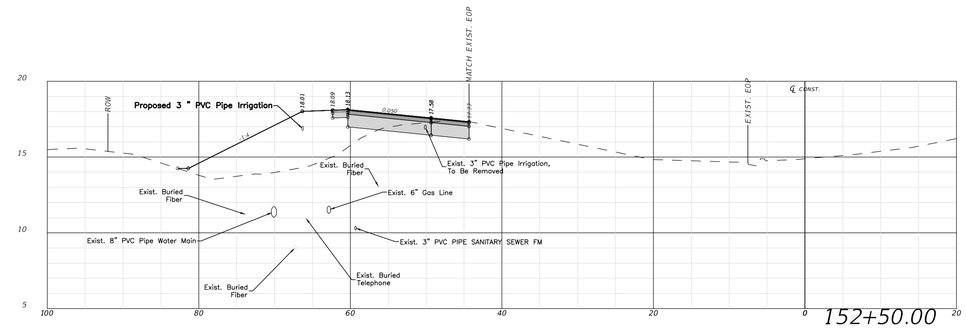


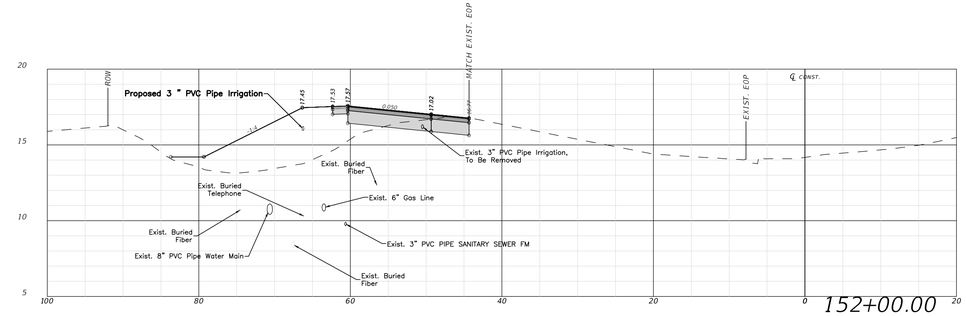


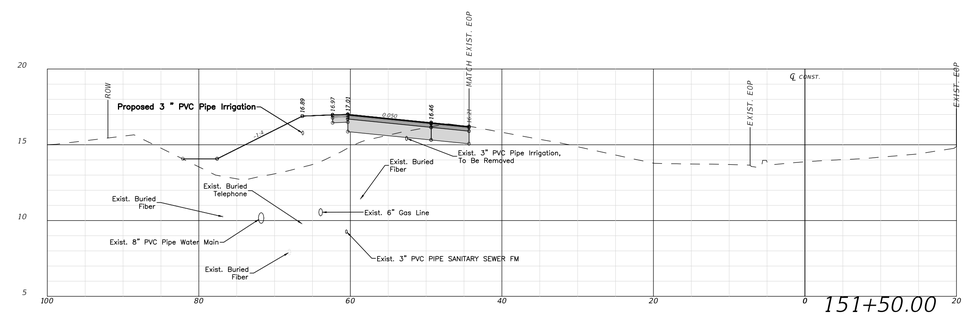












WEST BOUND TURN LANE CROSS SECTIONS

HORIZ SCALE: 1" = 10' VERT. SCALE: 1" = 5'

	DATE	SYMBOL	REVISION

	DATE	SYMBOL	REVISION

ISSUE DATE: 02/14/2025 100% PLANS

COMP. FILE No.: 21-5436

STATE PROJECT No.: 61307C-N3803

DESIGNER: SMU

DRAWN BY: SMU

REVIEWED BY: JHP

Consultant:

George & Associates Consulting Engineers, Inc.
GAI Project No. 21-5436
ENGINEERING BUSINESS NO. 7870
Commonwealth Lane, Suite 200, Tallahassee, FL 32303
PHONE (850)210-3344 FAX (850)210-3345

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION

JAMES H. PETERSON IV
STATE OF FLORIDA
No. 80485
LICENSED PROFESSIONAL ENGINEER

JAMES H. PETERSON IV
State of Florida P.E. # 80485

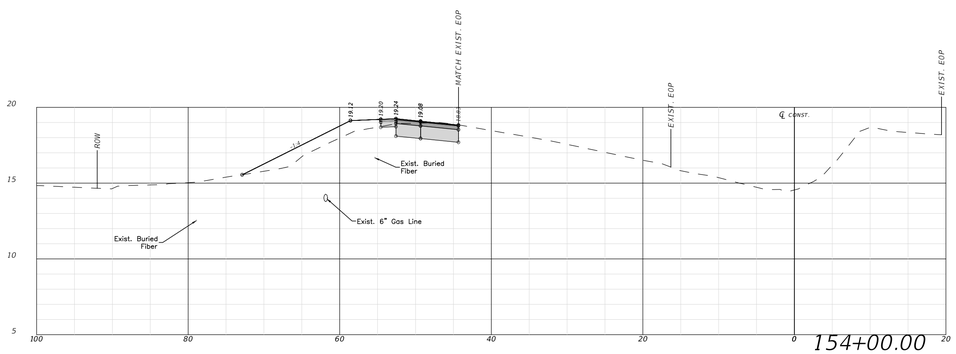
CAMP HELEN STATE PARK

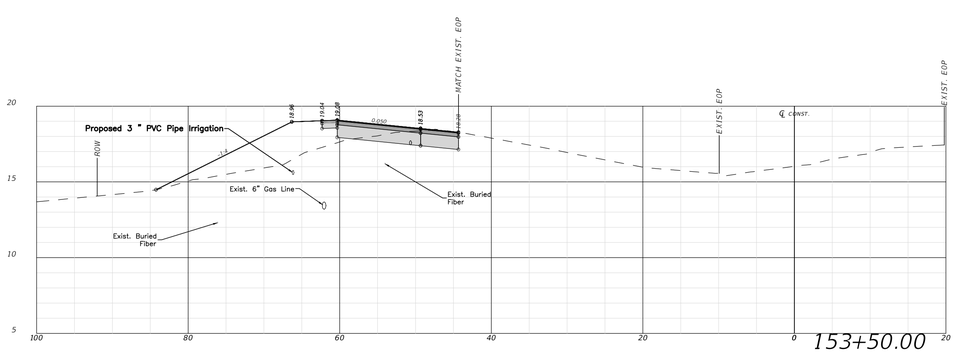
SHEET TITLE: WEST BOUND TURN LANE CROSS SECTIONS

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C407

JPETERSON November 1, 2024 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\06 Cross Sections\C406 North Turn Lane Cross Sections.dwg





WEST BOUND TURN LANE CROSS SECTIONS

HORIZ SCALE: 1" = 10' VERT. SCALE: 1" = 5'

SYMBOL	REVISION	DATE

SYMBOL	REVISION	DATE

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP
Consultant:

George & Associates
Consulting Engineers, Inc.
GA ENGINEERING, INC. CERTIFICATE OF AUTHORIZATION NO. 1-00-00
ENGINEERING BUSINESS NO. 2829
19467 Commonwealth Lane, Suite 200, Tallahassee, FL 32303
PHONE (850)321-5344 FAX (850)321-5345

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No: 61307C-N3803

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV
LICENSE No 80485
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

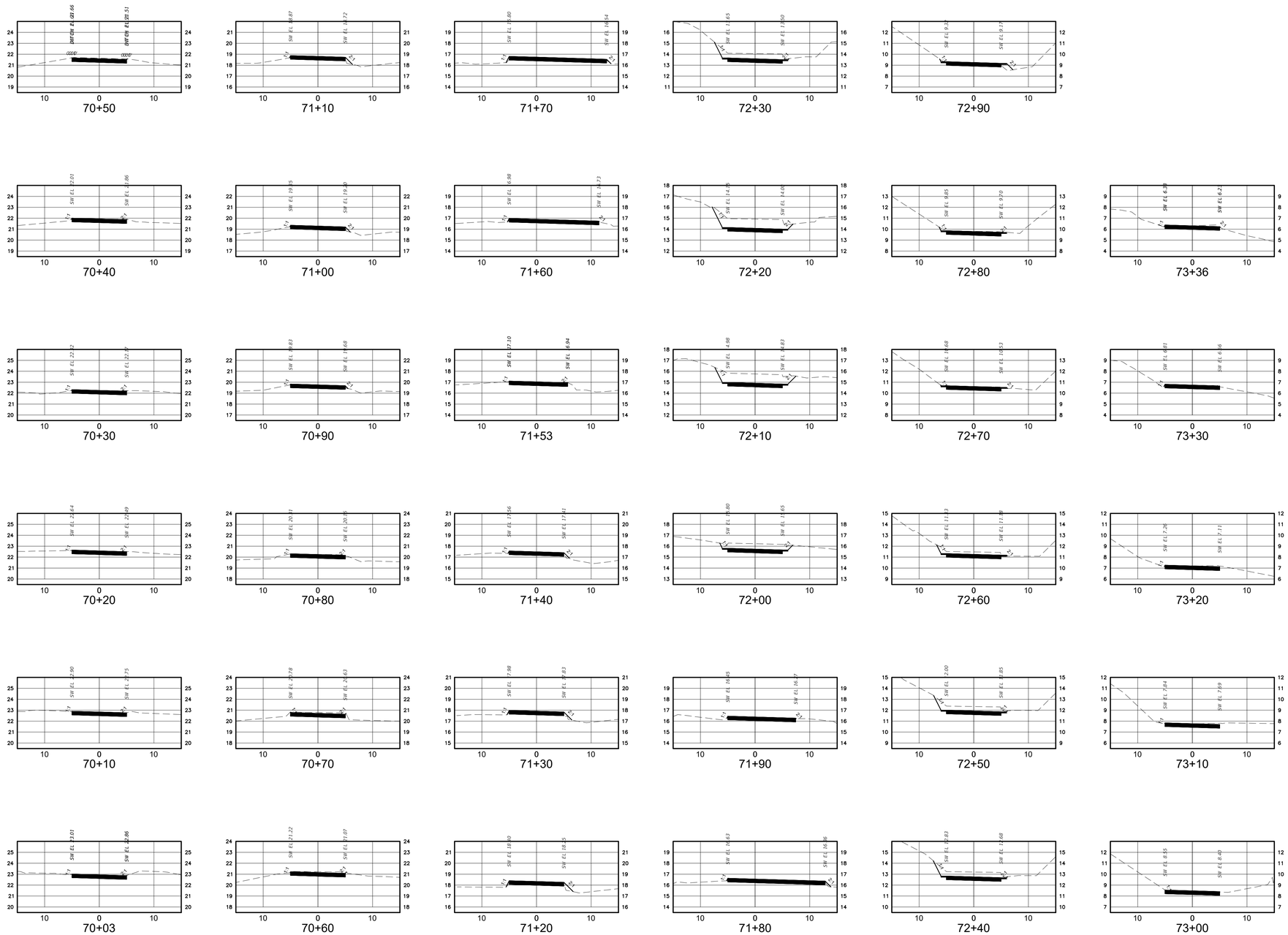
CAMP HELEN STATE PARK

SHEET TITLE
WEST BOUND TURN LANE CROSS SECTIONS

PROJECT TITLE
PARK IMPROVEMENT

SHEET NO.
C408

JPETERSON November 1, 2024 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\06 Cross Sections\C408 North Turn Lane Cross Sections.dwg



MULTI-USE PATH CROSS SECTIONS

HORIZ SCALE: 1" = 10' VERT. SCALE: 1" = 5'

DWG#D: November 8, 2024 P:\Projects\21-5436 EBC Camp Helen State Park\Drawings\CAM06 Cross Sections\C410 Proposed 8' Path Cross Sections.dwg

ISSUE DATE: 02/14/2025 100% PLANS	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
COMP. FILE No.: 21-5436						
STATE PROJECT No.: 61307C-N3803						

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates Consulting Engineers, Inc.
CERTIFICATE OF AUTHORIZATION NUMBER: 0000 ENGINEERING BUSINESS NO. 7029
1967 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: 850-531-0345 FAX: 850-531-0345

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP
Consultant:

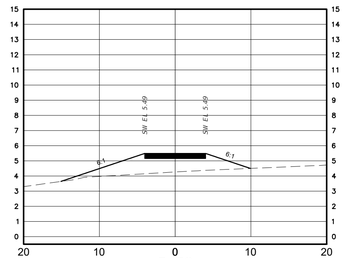
PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV LICENSE No 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

CAMP HELEN STATE PARK

SHEET TITLE: MULTI-USE PATH CROSS SECTIONS

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C409



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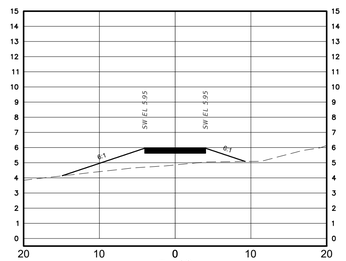

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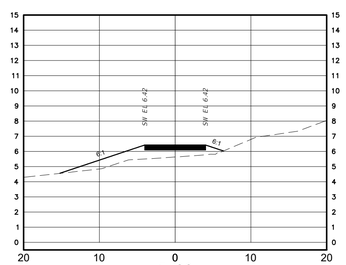
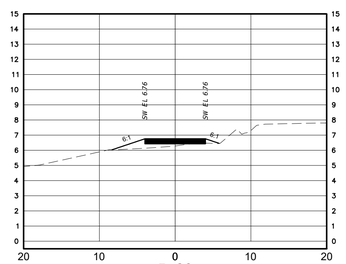


5+30



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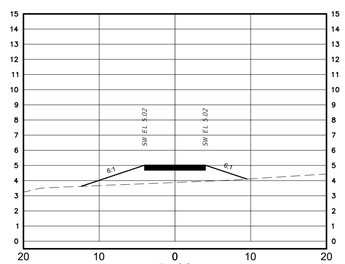


5+60

CONCRETE PATH EXTENSION CROSS SECTIONS

HORIZ SCALE: 1" = 10' VERT. SCALE: 1" = 5'

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP
Consultant:

George & Associates Consulting Engineers, Inc.
GA ENGINEERING, INC. CERTIFICATE OF AUTHORIZATION ENGINEERING BUSINESS NO. 2029
1957 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850) 210-3344 FAX: (850) 210-3345

ISSUE DATE: 02/14/2025 100% PLANS	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
COMP. FILE No.: 21-5436						
STATE PROJECT No.: 61307C-N3803						

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV LICENSE No. 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

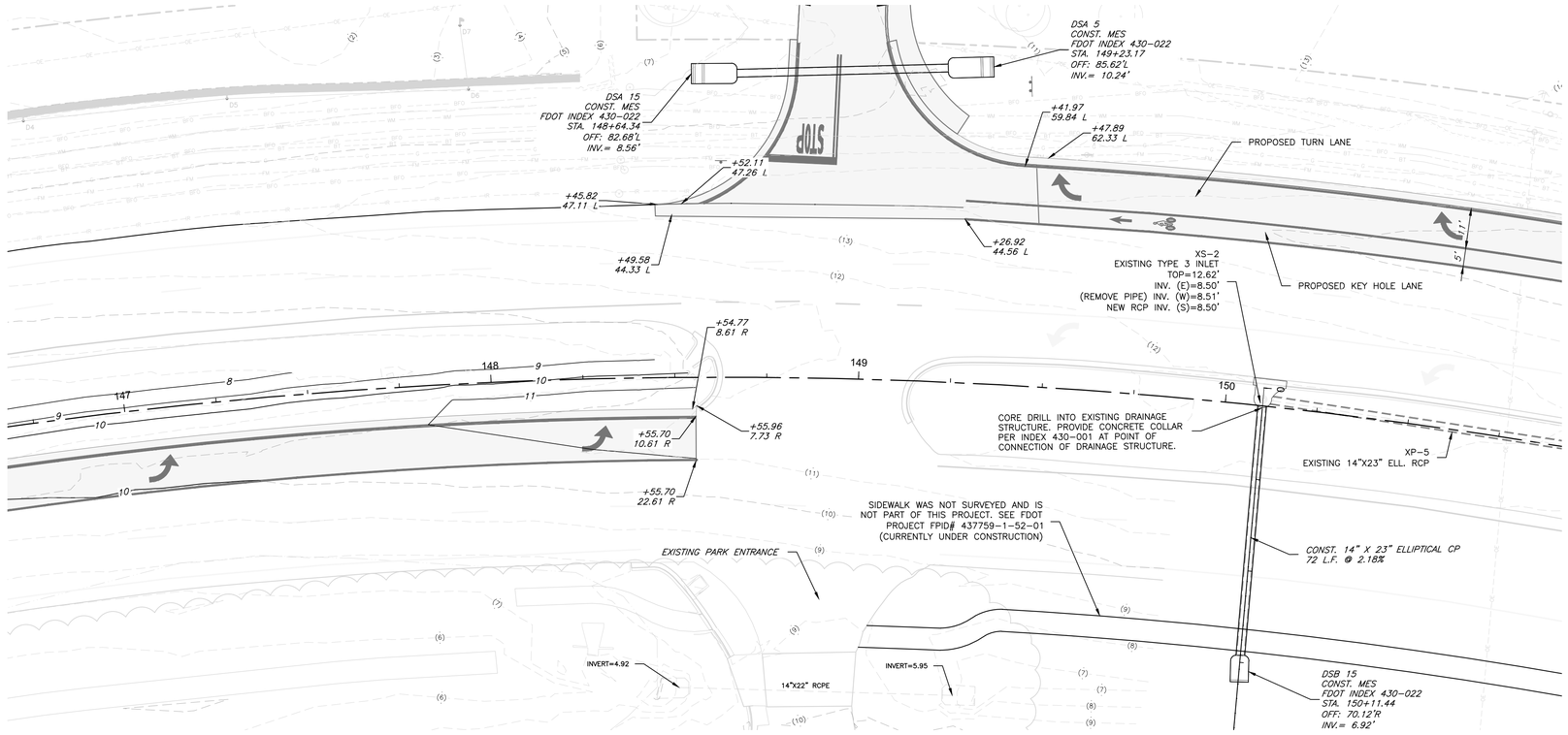
CAMP HELEN STATE PARK

SHEET TITLE
CONCRETE PATH EXTENSION CROSS SECTIONS

PROJECT TITLE
PARK IMPROVEMENT

SHEET NO.
C410

DWG/DIO: November 6, 2024 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\06 Cross Sections\C410 Proposed 8' Path Cross Sections.dwg



LEGEND

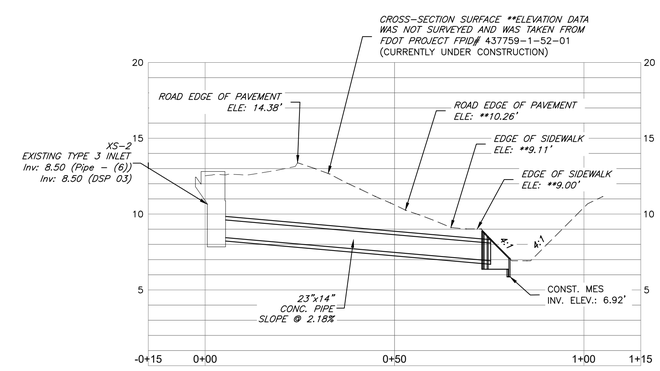
PROPOSED ASPHALT PAVING

20 0 10 20

1 inch = 20 ft.

DRAINAGE PLAN TURN LANE

SCALE: 1" = 20'



DRAINAGE OUTFALL PROFILE

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 5'

ISSUE DATE: 02/14/2025 100% PLANS	SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
COMP. FILE No.: 21-5436						
STATE PROJECT No.: 61307C-N3803						

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates Consulting Engineers, Inc.
CERTIFICATE OF AUTHORIZATION NUMBER: 00000970
ENGINEERING BUSINESS NO. 2029
19467 Commonwealth Lake Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3344 FAX: (850)210-3345

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP
Consultant:

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV
LICENSE No 80485
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

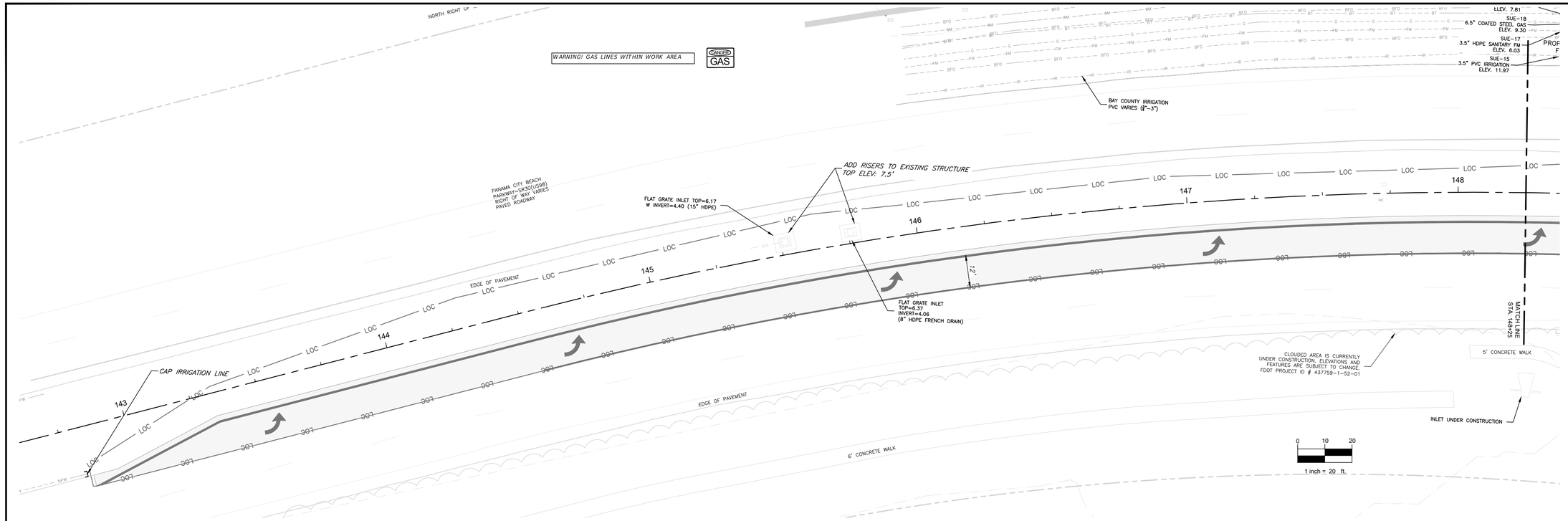
CAMP HELEN STATE PARK

SHEET TITLE: DRAINAGE PLAN TURN LANES

PROJECT TITLE: PARK IMPROVEMENT

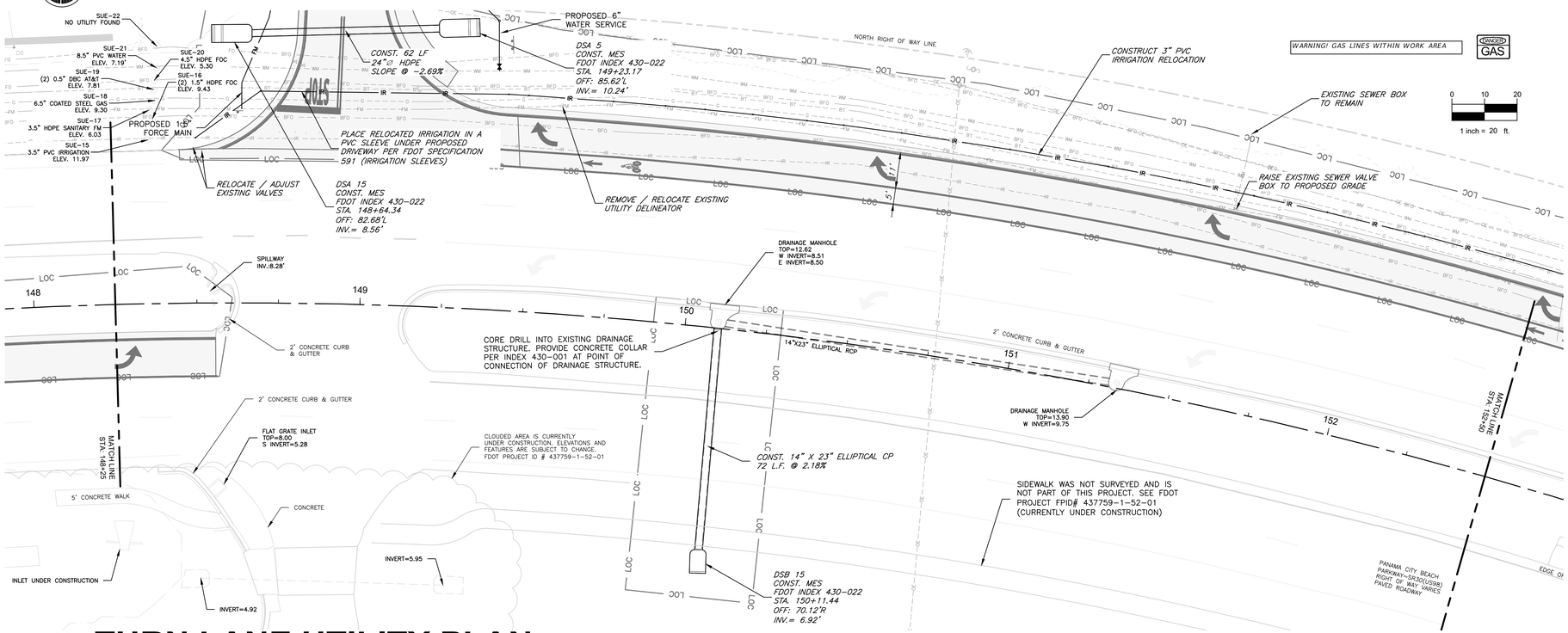
SHEET NO.
C501

JPETERSON, November 19, 2024 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\C\v007 Drainage\C501 Drainage Plan Turn Lanes.dwg



TURN LANE UTILITY PLAN

SCALE: 1" = 20'



TURN LANE UTILITY PLAN

SCALE: 1" = 20'

DRDOO November 8, 2024 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\06 Utility Plans\C601 Turn Lane Utility Plan.dwg

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No.: 61307C-N3803

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP

George & Associates Consulting Engineers, Inc.
136 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3434 FAX: (850)210-3435
ENGINEERING BUSINESS NO. 7879
ID567 Commonwealth

PROFESSIONAL REGISTRATION

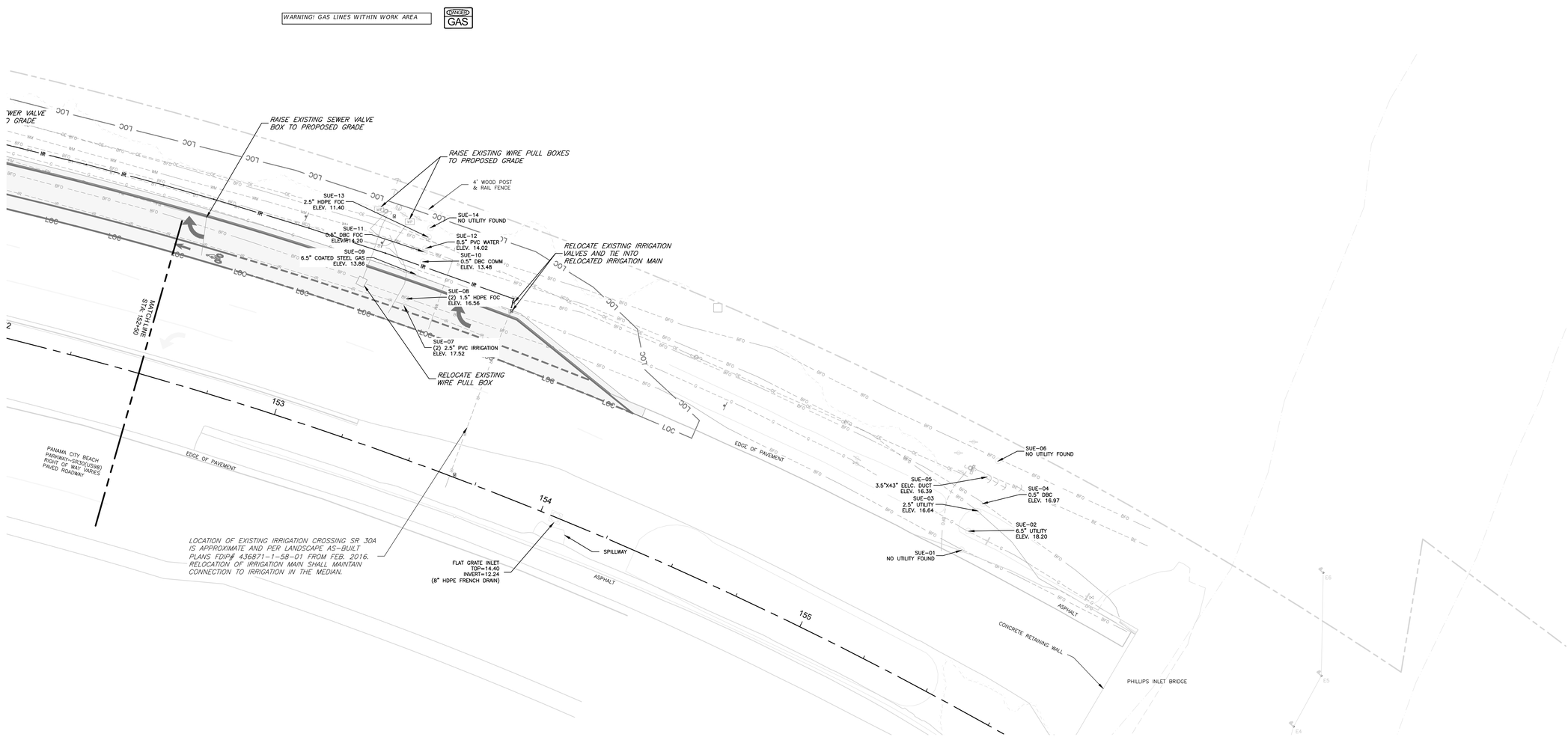
JAMES H. PETERSON IV
LICENSE No 80485
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JAMES H. PETERSON IV
State of Florida P.E. # 80485

SHEET TITLE: CAMP HELEN STATE PARK
TURN LANE UTILITY PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C601



TURN LANE UTILITY PLAN

SCALE: 1" = 20'

SYMBOL	REVISION	DATE

SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No.: 61307C-N3803

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP

Consultant:

George & Associates Consulting Engineers, Inc.
CERTIFICATE OF AUTHORIZATION NO. 8988
ENGINEERING BUSINESS NO. 2029
1957 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3344 FAX: (850)210-3345

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV
LICENSE No. 80485
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

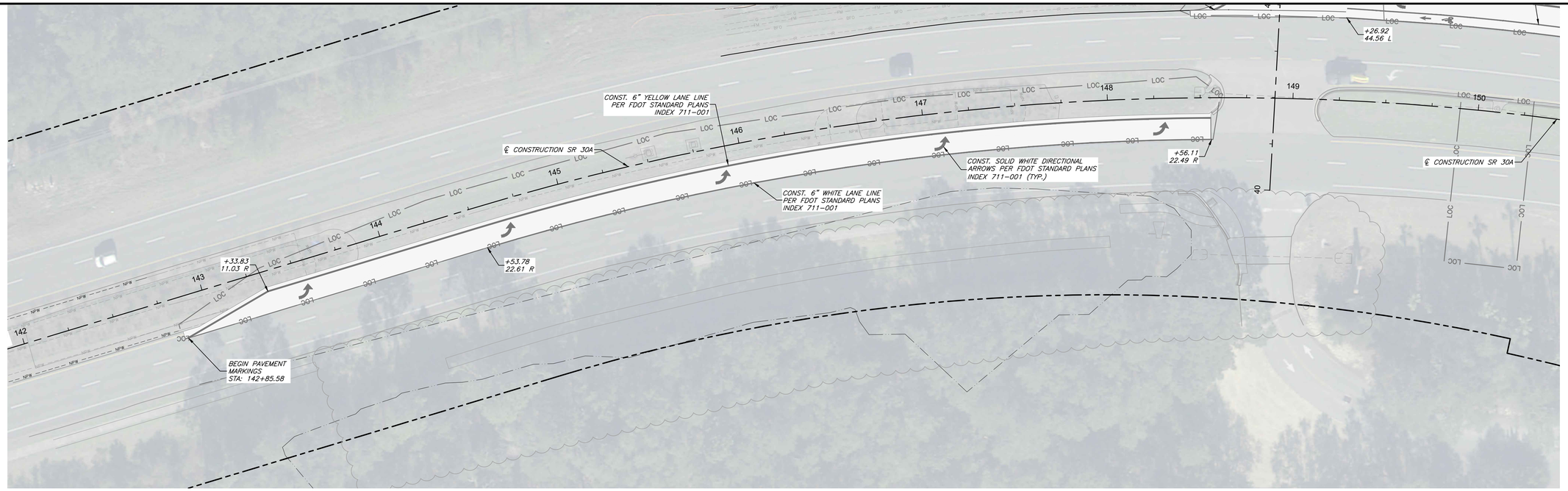
CAMP HELEN STATE PARK

SHEET TITLE: TURN LANE UTILITY PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C602

DRCKRO November 6, 2024 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\08 Utility Plans\C601 Turn Lane Utility Plan.dwg

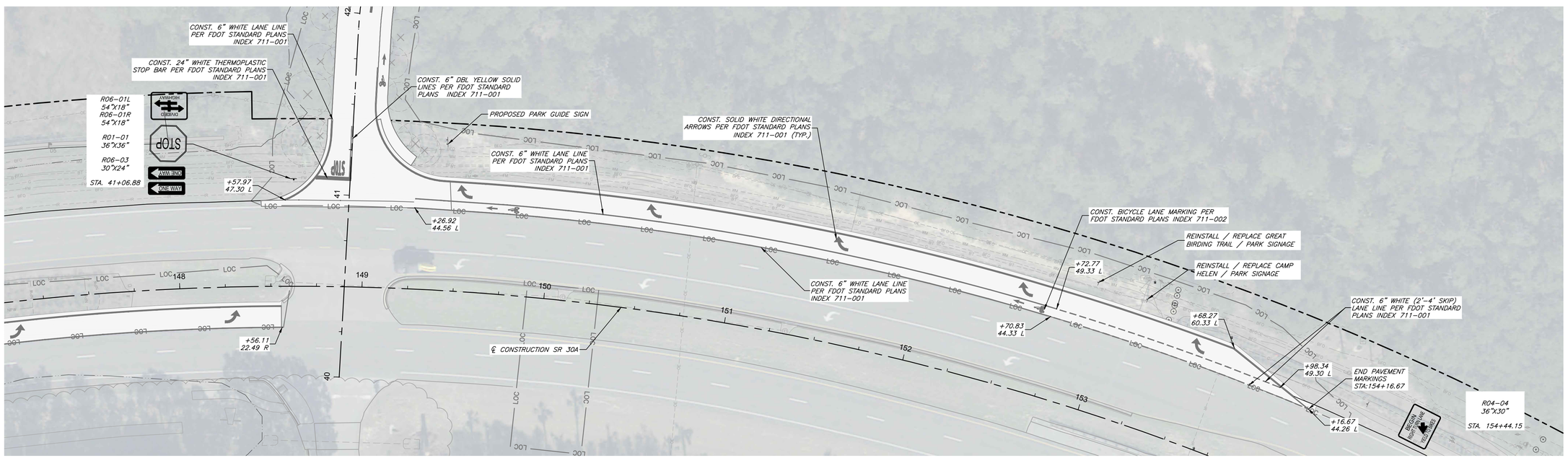


SIGNAGE & PAVEMENT MARKING PLAN

SCALE: 1" = 30'

0 15 30

1 inch = 30 ft.



SIGNAGE & PAVEMENT MARKING PLAN

SCALE: 1" = 30'

0 15 30

1 inch = 30 ft.

ISSUE DATE:	02/14/2025 100% PLANS
COMP. FILE No.:	21-5436
STATE PROJECT No.:	61307C-N3803

SYMBOL	REVISION	DATE

SYMBOL	REVISION	DATE

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP

Consultant:

George & Associates Consulting Engineers, Inc.
GAI + ENGINEERING, INC. CERTIFICATE OF AUTHORIZATION ENGINEERING BUSINESS NO. 7879
1967 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3344 FAX: (850)210-3345

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION

JAMES H. PETERSON IV
LICENSE No. 80485
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JAMES H. PETERSON IV
State of Florida P.E. # 80485

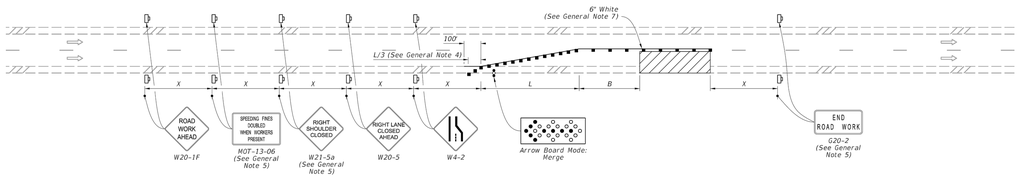
CAMP HELEN STATE PARK

SHEET TITLE: SIGNAGE & PAVEMENT MARKING PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C701

BULSAMER December 17, 2024 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\09 Pavement Marking Signage\C701 Signage & Pavement Marking Plan.dwg



SINGLE LANE CLOSURE

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Arrow Board
- Lane Identification and Direction of Traffic

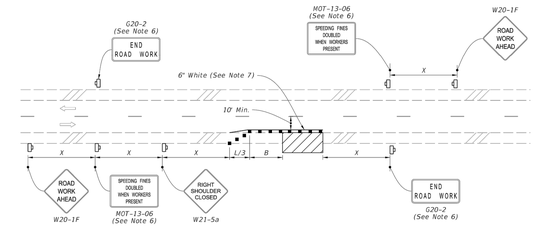
GENERAL NOTE:

1. L = Taper Length
   B = Buffer Length
   X = Work Zone Sign Distance
   See Index 102-600 for "L", "B", "X", and channelizing device spacing values.
2. On undivided highways the median signs as shown are to be omitted.
3. On limited access facilities, omit "Right Shoulder Closed" signs (W21-5a) and associated work zone sign spacing distances.
4. If the paved shoulder is less than 4' in width, omit the taper and channelizing devices from the paved shoulder.
5. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2) and "Right Shoulder Closed" (W21-5a), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less. For Single Lane Closures, arrow boards and buffer (B) may also be omitted when the work operation will be in place for 60 minutes or less and the speed limit is 45 mph or less.
6. Use inverted plan of the illustrations for work on left side of roadways.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

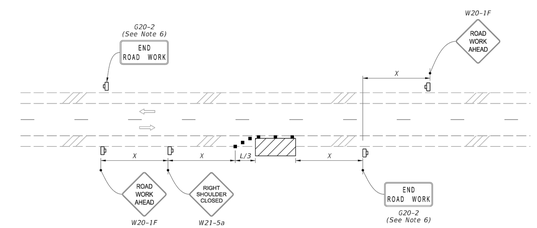
LAST REVISION	REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX	SHEET
11/01/21					102-613	1 of 5

NOTE:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
2. L = Taper Length
   X = Work Zone Sign Spacing
   B = Buffer Length
   See Index 102-600 for "L", "X", "B", and channelizing device spacing values.
3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.
4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.
8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).



TWO-LANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS

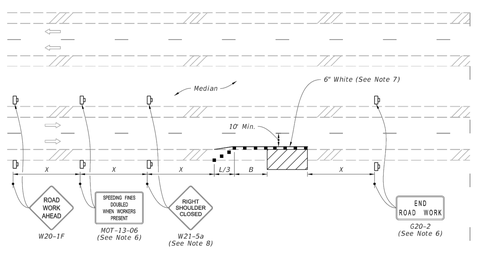


TWO-LANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

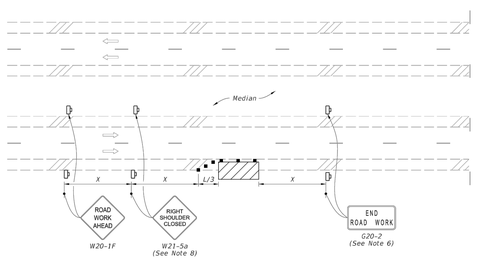
SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

LAST REVISION	REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX	SHEET
11/01/21					102-602	1 of 2



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS

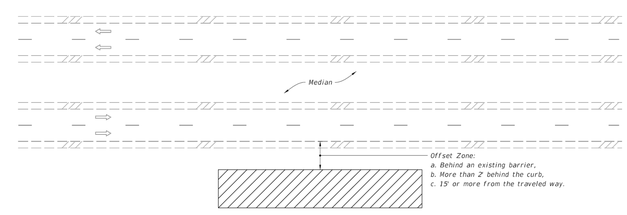


MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

LAST REVISION	REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE, WORK ON SHOULDER	INDEX	SHEET
11/01/20					102-602	2 of 2



MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR

NOTES:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.
2. Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.
3. Use Index 102-660 when Work Area encroaches a Sidewalk.

SYMBOLS:

- Work Area
- Lane Identification and Direction of Traffic

LAST REVISION	REVISION	DESCRIPTION:	FY 2025-26 STANDARD PLANS	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER	INDEX	SHEET
11/01/20					102-601	1 of 1

DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No.: 61307C-N3803

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP

Consultant:
George & Associates Consulting Engineers, Inc.
CIVIL ENGINEERING • SURVEYING • TRANSPORTATION • CAD SUPPORT
ENGINEERING BUSINESS NO. 7029
1957 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)216-3344 FAX: (850)216-3345

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV
LICENSE No 80465
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80465

CAMP HELEN STATE PARK

SHEET TITLE: TRAFFIC CONTROL PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C801

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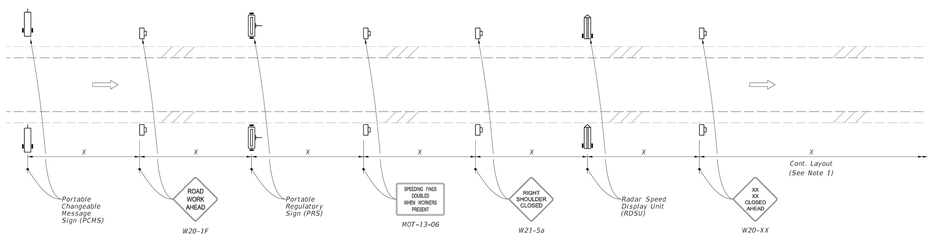

MOTORIST AWARENESS SYSTEM

SYMBOLS:

- Work Zone Sign
- (1) PCMS= Portable Changeable (Variable) Message Sign
- (2) PRS= Portable Regulatory Sign-Speed Limit When Flashing
- (2) RSDU= Radar Speed Display Unit
- Lane Identification and Direction of Traffic

NOTES:

1. Use the Motorist Awareness System (MAS) for lane closures of at least 5 days (consecutive or not) on multilane divided facilities with a posted speed of 55 mph or greater when workers are present and not protected by a barrier.
2. Locate the Motorist MAS devices (i.e., PCMS, PRS, and RDSU) within the advance warning signs as shown. Continue with the remainder of the work zone signs and devices in accordance with the Plans or Standard Plans after the appropriate "Lane Closed Ahead" (W20-XX) sign.
3. For a posted speed of 65 mph or greater, display speed with a ten mph reduction. For a posted speed of 60 mph, display a reduced speed of 55 mph. For areas outside of the lane closure, use the posted speed as the work zone speed.
4. Omit the PCMS in the median for roadways with three lanes or less in the same direction of traffic.

TYPICAL PCMS DISPLAY:

With speed reduction:
Message 1: WORKERS PRESENT AHEAD
Message 2: SPEED REDUCED NEXT XXMI

Without speed reduction:
Message 1: WORKERS PRESENT AHEAD
Message 2: NEXT XX MILES

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	MULTILANE ROADWAY, LANE CLOSURES	INDEX	SHEET
11/01/21						102-613	5 of 5

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SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No.: 61307C-N3803

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates Consulting Engineers, Inc.
CERTIFICATE OF AUTHORIZATION ENGINEERING BUSINESS NO. 2029
19467 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE (850)210-5344 FAX (850)210-5345

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP
Consultant:

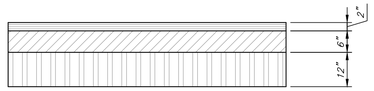
PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV LICENSE No 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

CAMP HELEN STATE PARK

SHEET TITLE: TRAFFIC CONTROL PLAN

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C802



SURFACE COURSE – TYPE SP ASPHALTIC CONCRETE (NOT TO EXCEED 15% RAP)

BASE COURSE – LIMEROCK (6" COMPACTED THICKNESS) WITH PRIME COAT

SUBGRADE – TYPE B STABILIZATION

TYPE SP ASPHALTIC CONCRETE SURFACE (2" MIN. COMPACTED THICKNESS) SHALL BE PLACED IN TWO LAYERS.

FIRST LAYER SHALL BE TYPE SP-9.5 AND HAVE A MIN. COMPACTED THICKNESS OF 1.00 INCH.

SECOND AND FINAL LAYER SHALL BE TYPE SP-9.5 AND HAVE A MIN. COMPACTED THICKNESS OF 1.00 INCH.

THE FIRST LAYER SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF THE BASE COURSE.

THE FINAL LAYER SHALL BE PLACED AT THE COMPLETION OF THE PROJECT AND SHALL MEET ALL REQUIREMENTS (INCLUDING MIXING AND PLACING REQUIREMENTS) AS SET FORTH BY F.D.O.T. FOR AN ASPHALTIC CONCRETE SURFACE COURSE TYPE SP.

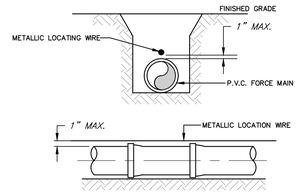
WHERE REFERENCE IS MADE TO A STANDARD SPECIFICATION OR DETAIL, THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION, SHALL BE USED AS IF PART OF THIS PLAN. COMPACTION AND DENSITY REQUIREMENTS ARE SUBJECT TO RECOMMENDATIONS OF THE GEOTECH (SOILS) SURVEY.

ALL PAVEMENT, PAVEMENT MARKINGS, SIGNAGE AND MESSAGES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS.

ASPHALT MIX TO CONTAIN MAXIMUM 15% RAP WITH PG 67-22 ASPHALT BINDER GRADE AND MUST MEET FDOT SPECIFICATION 334.

TYPE SP PAVEMENT DETAIL

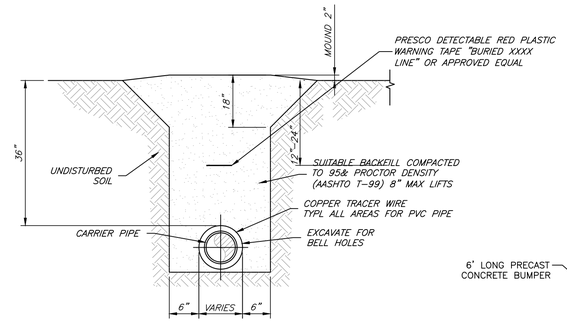
SCALE: NTS



NOTES:
1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (12 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
3. USE DUCT TAPE AS NECESSARY TO HOLD WIRE ON THE TOP OF THE PIPE.
4. ALL SPLICES SHALL BE MADE USING A WATER-TIGHT SEALING METHOD APPROVED BY THE CITY.

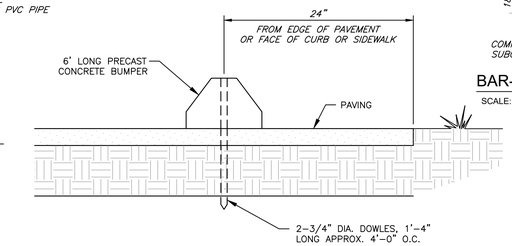
PVC WIRE LOCATING DETAIL

SCALE: NTS



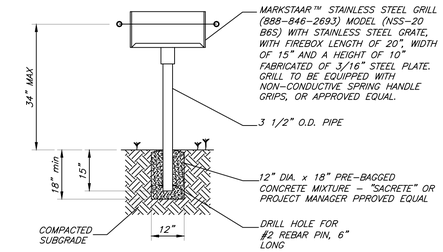
TYPICAL UNPAVED PIPE TRENCH DETAIL

SCALE: NTS



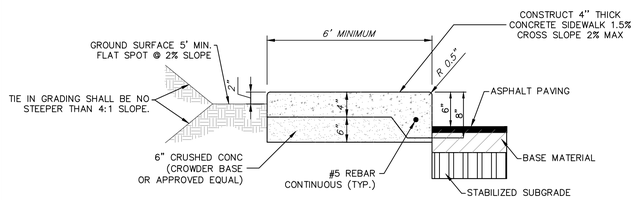
PARKING BUMPER DETAIL

N.T.S.



BAR-B-QUE GRILL DETAIL

SCALE: NTS



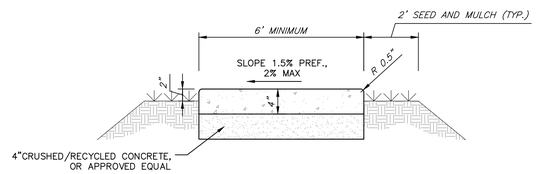
RAISED 4" CONCRETE SIDEWALK

SCALE: NTS

NOTE:
CONSTRUCT 4" THICK CONCRETE SIDEWALK IN ACCORDANCE WITH FDOT INDEX LATEST EDITION

PROVIDE A BROOM FINISH TO CONCRETE SURFACE.

FINISH OUTER EDGES OF THE CONCRETE WITH AN EDGING TOOL HAVING A RADIUS OF 1\2 INCH.



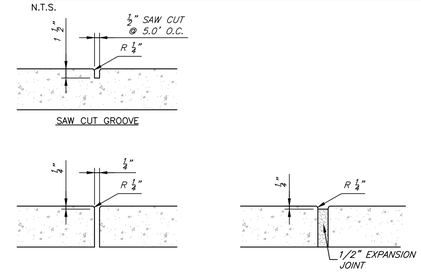
TYPICAL 4" PROPOSED CONCRETE SIDEWALK

SCALE: NTS

NOTE: CONSTRUCT 4" THICK CONCRETE SIDEWALK IN ACCORDANCE WITH FDOT STANDARD PLANS LATEST EDITION. CONTRACTOR SHALL SUBMIT JOINTING PLAN FOR REVIEW AND APPROVAL BY OWNERS REPRESENTATIVE.

PROVIDE A BROOM FINISH ON CONCRETE SURFACE.

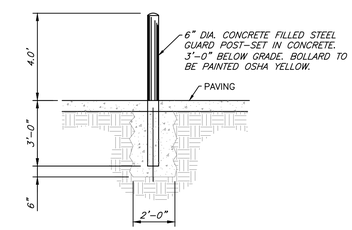
FINISH OUTER EDGES IF THE CONCRETE WITH AN EDGING TOOL HAVING A RADIUS OF ½ INCH.



EXPANSION JOINT MATERIAL SHALL BE CLOSED CELL NEOPRENE MATERIAL (TYP.). CONTRACTOR SHALL SUBMIT JOINTING PLAN FOR REVIEW AND APPROVAL BY OWNERS REPRESENTATIVE (TYP.).

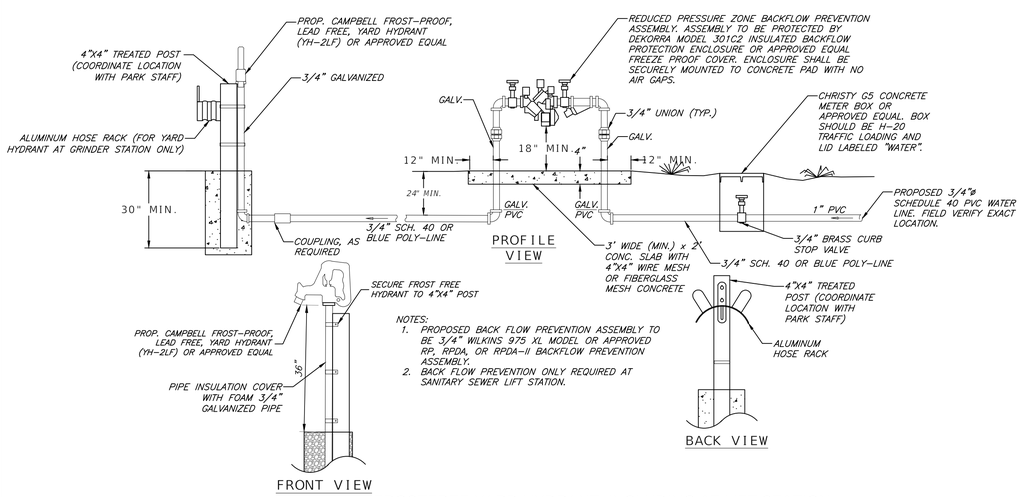
TYPICAL CONCRETE SIDEWALK JOINT DETAILS

SCALE: NTS



BOLLARD DETAIL

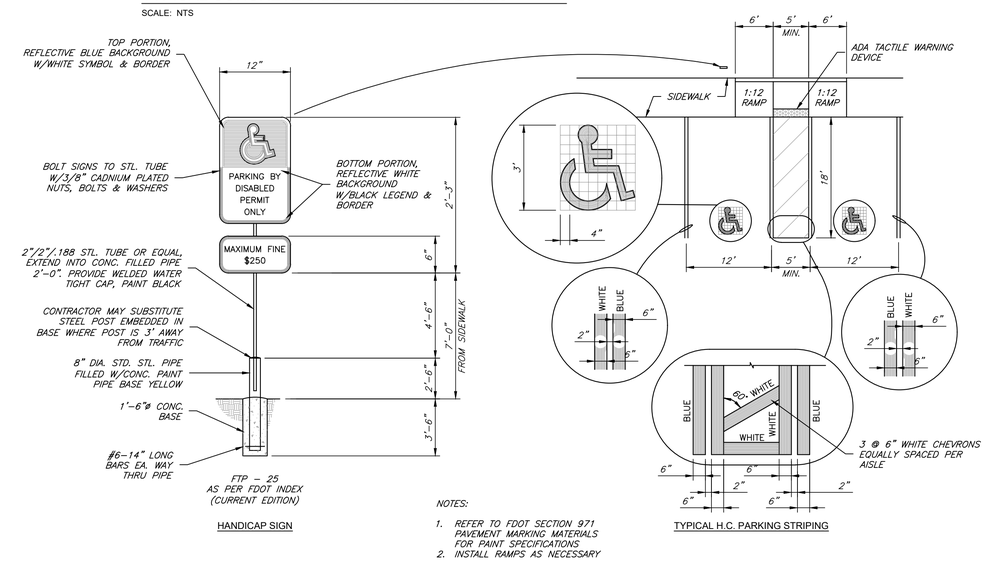
N.T.S. DETAIL S-002



NOTES:
1. PROPOSED BACK FLOW PREVENTION ASSEMBLY TO BE 3/4" WILKINS 975 XL MODEL OR APPROVED RP, RPDA, OR RPDA-II BACKFLOW PREVENTION ASSEMBLY.
2. BACK FLOW PREVENTION ONLY REQUIRED AT SANITARY SEWER LIFT STATION.

FROSTFREE YARD HYDRANT, INCLUDING AT LIFT STATION

SCALE: NTS



NOTES:
1. REFER TO FDOT SECTION 971 PAVEMENT MARKING MATERIALS FOR PAINT SPECIFICATIONS
2. INSTALL RAMPS AS NECESSARY

WHERE S.W. IS ADJACENT TO BUILDING MOUNT SIGNS ON FACE OF BUILDING

HANDICAP PARKING DETAILS

SCALE: NTS

CONSTRUCTION DETAILS

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No: 21-5436
STATE PROJECT No: 61307C-N3803

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP

Consultant:
George & Associates Consulting Engineers, Inc.
CIVIL • ENVIRONMENTAL • STRUCTURAL • GEOTECHNICAL ENGINEERING BUSINESS NO. 2029
1567 Commonwealth Lane, Suite 200, Tallahassee, FL 32303
PHONE 850/210-5344 FAX 850/210-5345

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV LICENSE No 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

CAMP HELEN STATE PARK

SHEET TITLE: CONSTRUCTION DETAILS

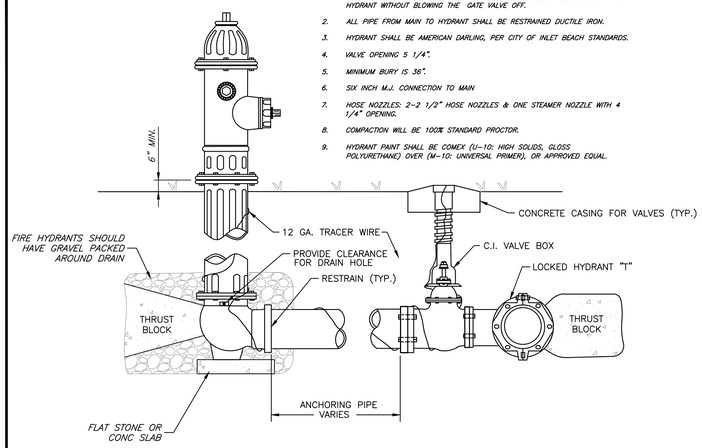
PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C901

ERCSDO March 3, 2025 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\15 Details\C901 Construction Details.dwg

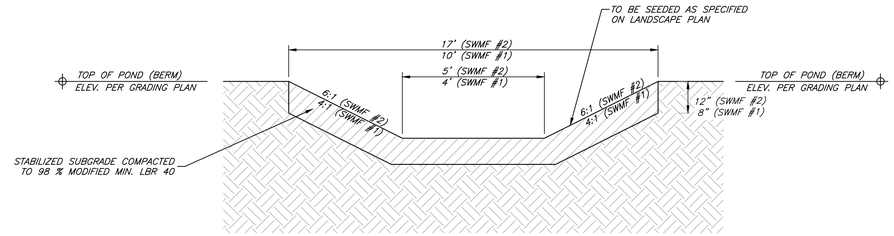
NOTE:

1. GATE VALVE IS TO BE RESTRAINED TO THE MAIN TO ALLOW REMOVAL OF FIRE HYDRANT WITHOUT BLOWING THE GATE VALVE OFF.
2. ALL PIPE FROM MAIN TO HYDRANT SHALL BE RESTRAINED DUCTILE IRON.
3. HYDRANT SHALL BE AMERICAN DARLING, PER CITY OF INLET BEACH STANDARDS.
4. VALVE OPENING 5 1/4".
5. MINIMUM BURY IS 36".
6. SIX INCH M.J. CONNECTION TO MAIN
7. HOSE NOZZLES: 2-2 1/2" HOSE NOZZLES & ONE STEAMER NOZZLE WITH 4 1/4" OPENING.
8. COMPACTION WILL BE 100% STANDARD PROCTOR.
9. HYDRANT PAINT SHALL BE COMEX (U-10: HIGH SOLIDS, GLOSS POLYURETHANE) OVER (M-10: UNIVERSAL PRIMER), OR APPROVED EQUAL.



FIRE HYDRANT ASSEMBLY - AMERICAN-DARLING MODEL B-84-B, OR APPROVED EQUAL

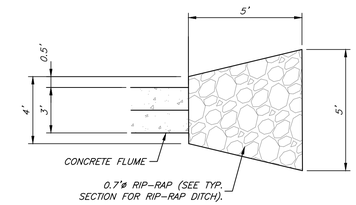
SCALE: NTS



FRONT SECTION

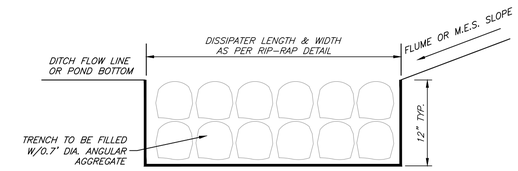
EMERGENCY SPILLWAY - GRASSED WEIR (SWMF #1 AND #2)

SCALE: NTS



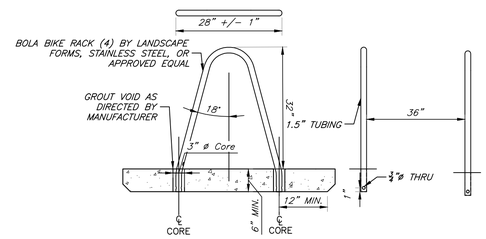
RIP-RAP DETAIL AT END OF CONCRETE FLUME

SCALE: NTS



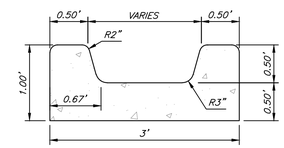
TYPICAL RIP-RAP DETAIL: CROSS SECTION

SCALE: NTS



BIKE RACK

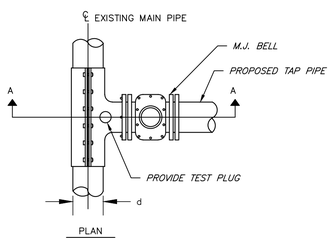
N.T.S.



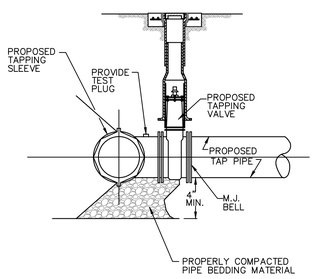
NOTES:
1. CONTRACTOR IS TO PROVIDE 1/8" TO 1/4" CONTRACTION JOINTS AT 10' ON CENTER (MAX). THIS EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE FDOT STANDARD SPECIFICATIONS.

CONCRETE FLUME

SCALE: NTS



PLAN



SECTION A-A

NOTES:

1.) NO CUTS SHALL BE MADE BEFORE:
(A) A TEST OF 150 P.S.I. FOR 30 MINUTES IS MADE.

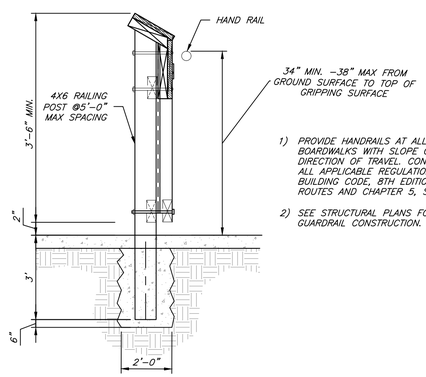
2.) ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS LARGER) FROM A JOINT OR FITTING.

2.) CONTRACTOR SHALL ADHERE TO INLET BEACH WATER SYSTEM SPECIFICATIONS

3.) CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK AND A BACK-HOE TO LOWER MACHINE INTO HOLE.

TAPPING SLEEVE AND VALVE DETAIL

SCALE: NTS

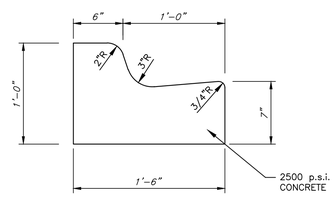


1) PROVIDE HANDRAILS AT ALL RAMP SECTIONS OF BOARDWALKS WITH SLOPE GREATER THAN 1:20 IN THE DIRECTION OF TRAVEL. CONTRACTOR SHALL ADHERE TO ALL APPLICABLE REGULATIONS IN THE FLORIDA BUILDING CODE, 8TH EDITION, CHAPTER 4, ACCESSIBLE ROUTES AND CHAPTER 5, SECTION 505, HANDRAILS.

2) SEE STRUCTURAL PLANS FOR ABOVEGROUND GUARDRAIL CONSTRUCTION.

GUARDRAIL POST INSTALLATION DETAIL

N.T.S.

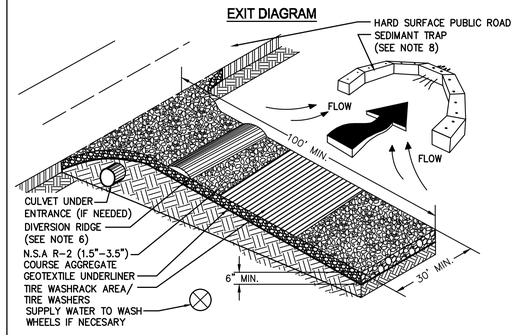


NOTE: WHEN USING ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT

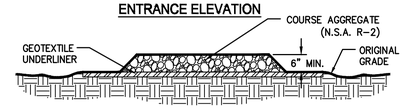
18" STANDARD CURB AND GUTTER

SCALE: NTS

EXIT DIAGRAM



ENTRANCE ELEVATION



MAINTENANCE:
THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIAL SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
11. THE GEOTEXTILE UNDERLINER MUST BE PLACED THE FULL LENGTH AND WIDTH OF THE ENTRANCE. GEOTEXTILE SELECTION SHALL BE BASED ON AASHTO M288-06 SPECIFICATION:
A. FOR SUBGRADES WITH CBR GREATER THAN OR EQUAL TO 3 OR SHEAR STRENGTH GREATER THAN 90 kPa, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288-06 SECTION 7.3, SEPERATION REQUIREMENTS.
B. FOR SUBGRADES WITH CBR BETWEEN 1 AND 3 OR SHEER STRENGTH BETWEEN 30 AND 90 kPa, GEOTEXTILE MUST MEET REQUIREMENTS OF SECTION AASHTO M288-06 SECTION 8, GEOTEXTILE PROPERTY REQUIREMENTS FOR SUBSURFACE DRAINAGE, SEPARATION, STABILIZATION, AND PERMANENT EROSION CONTROL (GEOTEXTILE PROPERTY REQUIREMENTS).

Co **CONSTRUCTION EXIT**
NOT TO SCALE

CONSTRUCTION DETAILS

DROTO March 12, 2025 P:\Projects21-5436 BDC Camp Helen State Park\Drawings\Civil\10 Details\C901 Construction Details.dwg

SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No.: 61307C-N3803

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP

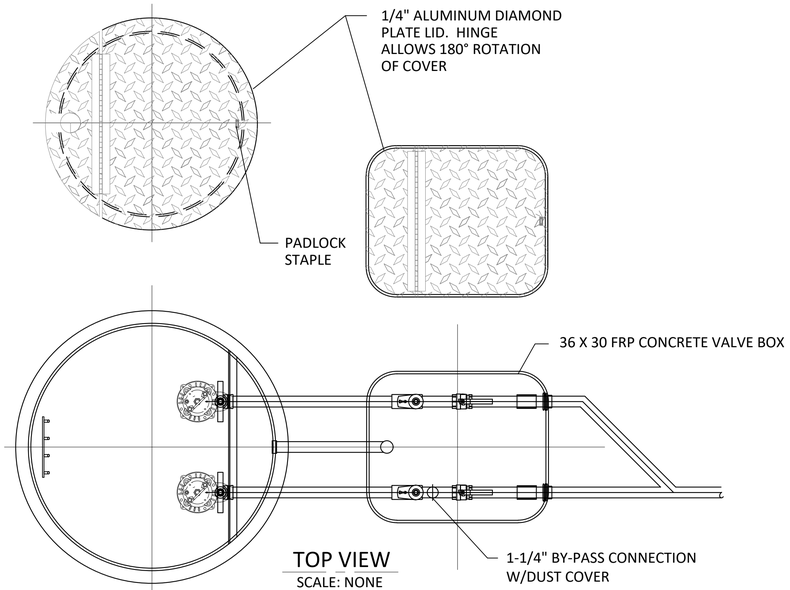
Consultant:
George & Associates Consulting Engineers, Inc.
CIVIL • ENVIRONMENTAL • STORMWATER • WATER • WASTEWATER ENGINEERING BUSINESS NO. 2029
1567 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE (850)210-3344 FAX (850)210-3345

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

PROFESSIONAL REGISTRATION
JAMES H. PEDERSON IV LICENSE No 80485 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. PEDERSON IV
State of Florida P.E. # 80485

CAMP HELEN STATE PARK
SHEET TITLE: CONSTRUCTION DETAILS
PROJECT TITLE: PARK IMPROVEMENT

SHEET NO.
C902

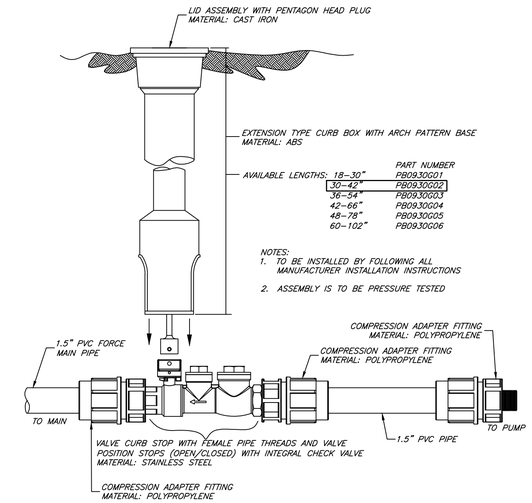


TOP VIEW
SCALE: NONE

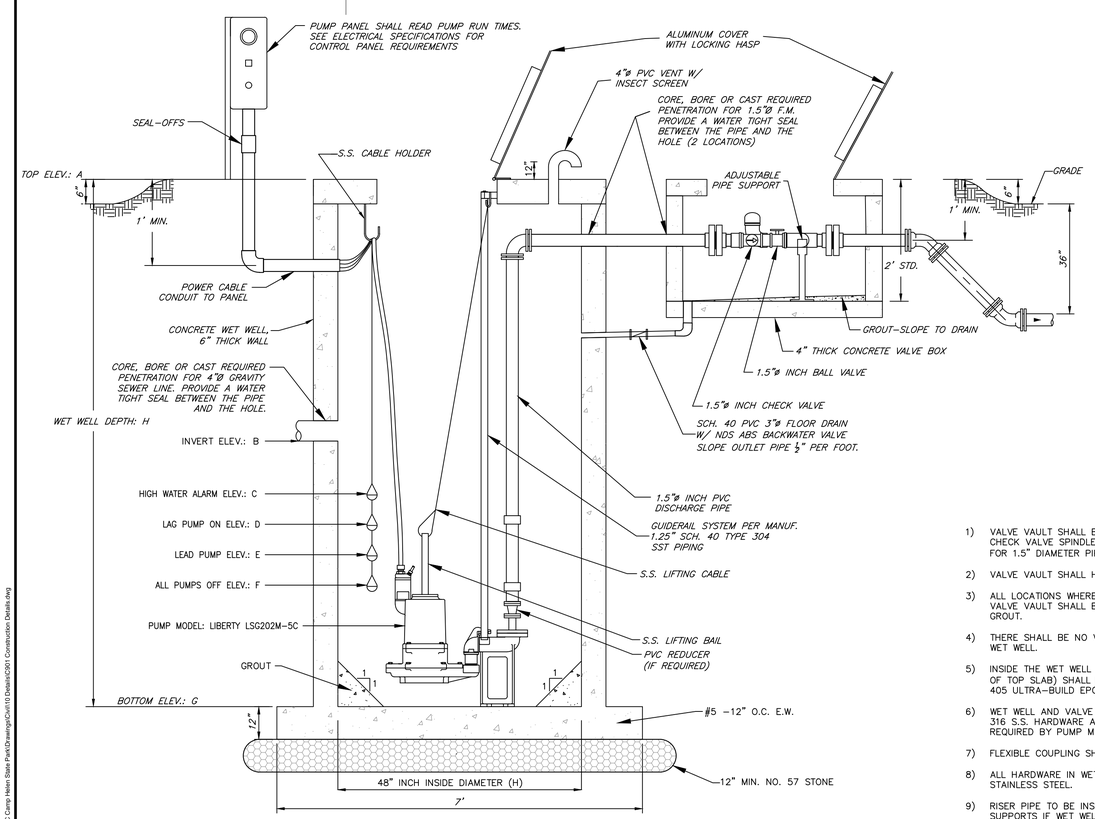
LIFT STATION INFORMATION

DESCRIPTION	REF.	STATION #1
TOP	'A'	19.25'
INFLUENT INVERT	'B'	17.5'
ALARM	'C'	16.5'
TWO PUMPS ON	'D'	17.33'
ONE PUMP ON	'E'	16.83'
PUMPS OFF	'F'	16.33'
BOTTOM	'G'	14.25'
WET WELL DEPTH	'H'	5'
WET WELL DIAMETER	'I'	48"
# OF PUMPS		2
GPM		20
TDH (FT)		85
VOLTAGE / PHASE		230 V / 1 PH
HP		2
PUMP MODEL		Liberty LSG202M-5C *

* OR APPROVED EQUAL



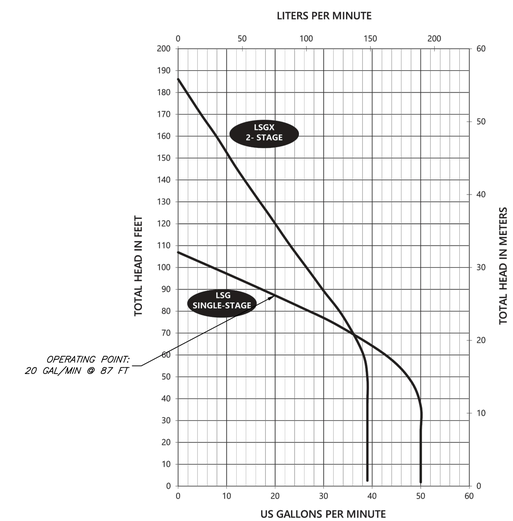
E-ONE LIFT STATION 1.5" STAINLESS STEEL LATERAL KIT
SCALE: NTS



DUPLEX GRINDER PUMP STATION
SCALE: N.T.S.

1) VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE SPINDLES WITH MINIMUM CLEARANCES AS SHOWN FOR 1.5" DIAMETER PIPE AND SMALLER.
2) VALVE VAULT SHALL HAVE SEALED FLOOR AND DRAIN.
3) ALL LOCATIONS WHERE PIPES ENTER OR EXIT THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH NON-SHRINK GROUT.
4) THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
5) INSIDE THE WET WELL ALL EXPOSED SURFACES (INCLUDING BOTTOM OF TOP SLAB) SHALL BE LINED WITH PROTECTIVE COATING; RAVEN 405 ULTRA-BUILD EPOXY, OR APPROVED EQUAL.
6) WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE AND LOCK BAR TO ACCEPT PADLOCK. SIZE AS REQUIRED BY PUMP MANUFACTURER AND APPROVED BY ENGINEER.
7) FLEXIBLE COUPLING SHALL BE SLEEVE TYPE.
8) ALL HARDWARE IN WET WELL AND VALVE VAULT SHALL BE 316 STAINLESS STEEL.
9) RISER PIPE TO BE INSTALLED WITH INTERMEDIATE 316 S.S. PIPE SUPPORTS IF WET WELL DEPTH IS GREATER THAN 15 FEET.

DUPLEX GRINDER STATION NOTES



LIBERTY PUMP CURVE
SCALE: N.T.S.

CONSTRUCTION DETAILS

SULSAMER March 18, 2025 P:\Projects\21-5436 BDC Camp Helen State Park\Drawings\Civil\10 Details\C903 Construction Details.dwg

SYMBOL	REVISION	DATE

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No.: 21-5436
STATE PROJECT No.: 61307C-N3803

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

George & Associates Consulting Engineers, Inc.
CIVIL • ENVIRONMENTAL • STRUCTURAL • MECHANICAL • ELECTRICAL
ENGINEERING BUSINESS NO. 2029
11957 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3434 FAX: (850)210-3435

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP
Consultant:

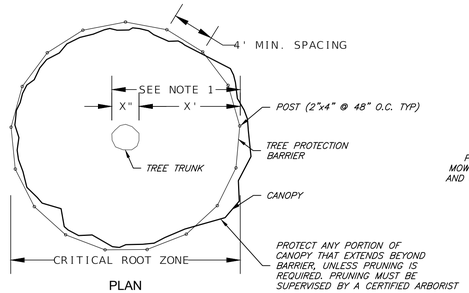
PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV
LICENSE No. 80485
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80485

CAMP HELEN STATE PARK
SHEET TITLE: CONSTRUCTION DETAILS
PROJECT TITLE: PARK IMPROVEMENT

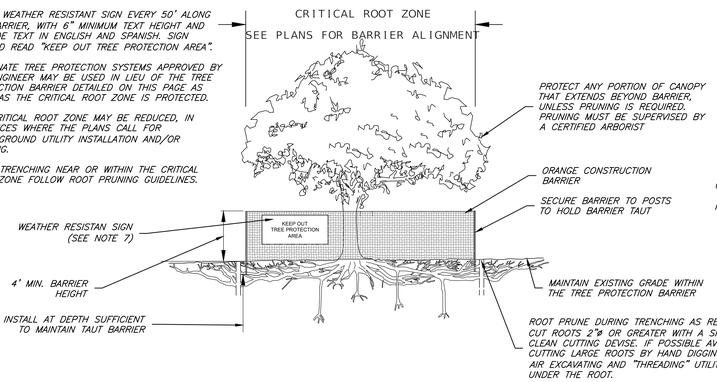
SHEET NO.
C903

NOTES:

1. CRITICAL ROOT ZONE: EXTENDS IN ALL DIRECTIONS FROM TREE TRUNK TO A DISTANCE EQUAL TO ONE FOOT PER INCH OF TRUNK DIAMETER AT BREAST HEIGHT.
2. STAGING, STORAGE, DUMPING, WASHING AND OPERATION OF EQUIPMENT IS NOT PERMITTED WITHIN THE LIMITS OF THE TREE PROTECTION BARRIER, INCLUDING DURING BARRIER INSTALLATION.
3. INSTALL ALL TREE PROTECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REMOVE WHEN POTENTIALLY DAMAGING CONSTRUCTION ACTIVITIES ARE FINISHED IN THE VICINITY OF THE PROTECTED TREES.
4. FOR CLOSELY SPACED GROUPS OF TREES, PLACE THE TREE PROTECTION BARRIER AROUND THE ENTIRE GROUP.
5. INSPECT TRUNK PROTECTION AND TREE QUARTERLY TO PREVENT GIRDLING. ADJUST BANDS TO ALLOW TREE GROWTH AS NEEDED.
6. SEE PLANS FOR ANY ADDITIONAL REQUIREMENTS OR MODIFICATIONS WITHIN THE TREE PROTECTION AREA.
7. PLACE WEATHER RESISTANT SIGN EVERY 50' ALONG THE BARRIER, WITH 6" MINIMUM TEXT HEIGHT AND PROVIDE TEXT IN ENGLISH AND SPANISH. SIGN SHOULD READ "KEEP OUT TREE PROTECTION AREA".
8. ALTERNATE TREE PROTECTION SYSTEMS APPROVED BY THE ENGINEER MAY BE USED IN LIEU OF THE TREE PROTECTION BARRIER DETAILED ON THIS PAGE AS LONG AS THE CRITICAL ROOT ZONE IS PROTECTED.
9. THE CRITICAL ROOT ZONE MAY BE REDUCED, IN INSTANCES WHERE THE PLANS CALL FOR UNDERGROUND UTILITY INSTALLATION AND/OR GRADING.
10. WHILE TRENCHING NEAR OR WITHIN THE CRITICAL ROOT ZONE FOLLOW ROOT PRUNING GUIDELINES.

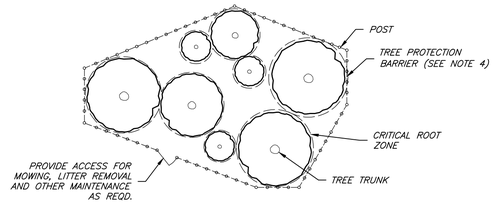


PLAN



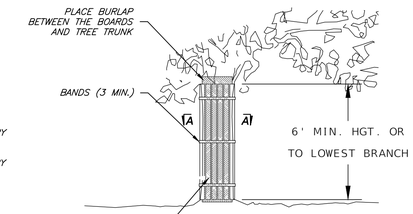
ELEVATION

TREE PROTECTION BARRIER

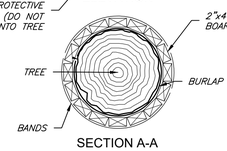


PLAN

PROTECTION FOR TREE GROUPINGS



ELEVATION

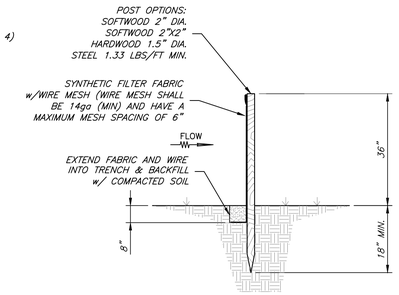


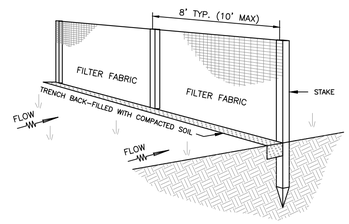
SECTION A-A

NOTES:

1. TRUNK PROTECTION MAY BE USED WHEN TREE PROTECTION BARRIER CAN NOT BE REASONABLY ERECTED.
2. ADJUST BANDS TO ALLOW TREE GROWTH (INSPECT QUARTERLY TO PREVENT GIRDLING).

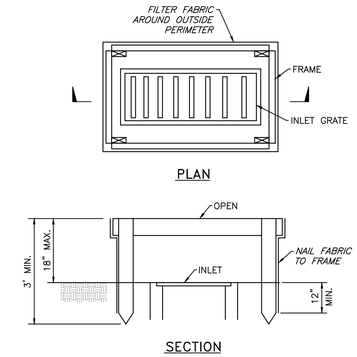
TRUNK PROTECTION





SEDIMENT BARRIER DETAILS

N.T.S. EC-006



INLET PROTECTION

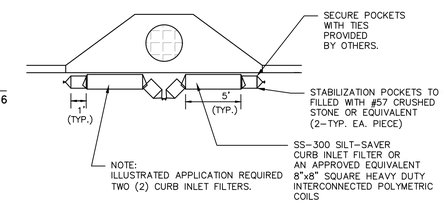
N.T.S. EC-013

DEFINITION

A FILTER DESIGN TO BE PLACED IN FRONT OF A CURB INLET OR OPENING TO PREVENT THE MIGRATION OF SILT INTO THE STORM DRAIN SYSTEM.

PURPOSE

TO REDUCE TURBIDITY OF DOWNSTREAM WATERS BY ELIMINATING SILT BUILD-UP IN STORM DRAIN SYSTEMS THROUGH THE CURB INLETS.



INSTALLATION

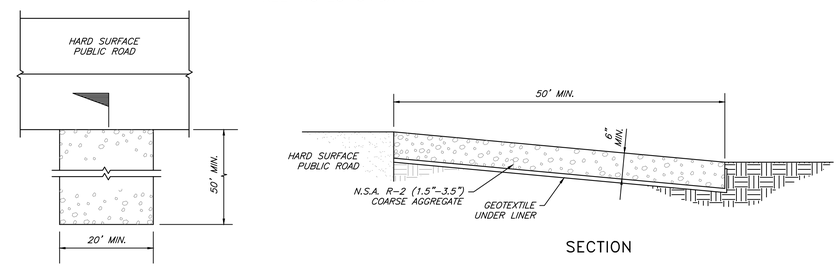
1. IDENTIFY OPENING DIMENSIONS TO DETERMINE HOW MANY FILTERS ARE REQUIRED.
2. COMPLETELY FILL THE ROCK CHAMBERS AT EACH END OF THE FILTER.
3. SECURE THE OPEN ENDS OF THE ROCK CHAMBERS WITH TIE WIRES. FOR LARGER OPENINGS, SIMPLY PLACE FILTERS END TO END.

MAINTENANCE

ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHOULD BE INSPECTED DAILY. REMOVE SEDIMENT AND DISPOSE IN A PROPER MANNER. INSPECT FILTER FOR CUTS, ABRASIONS AND PROPER INSTALLATION, REPLACE OR REPOSITION AS NECESSARY. DISCONTINUE USE IF CURB INLET FILTRATION CREATES TRAFFIC HAZARD.

CURB INLET PROTECTION

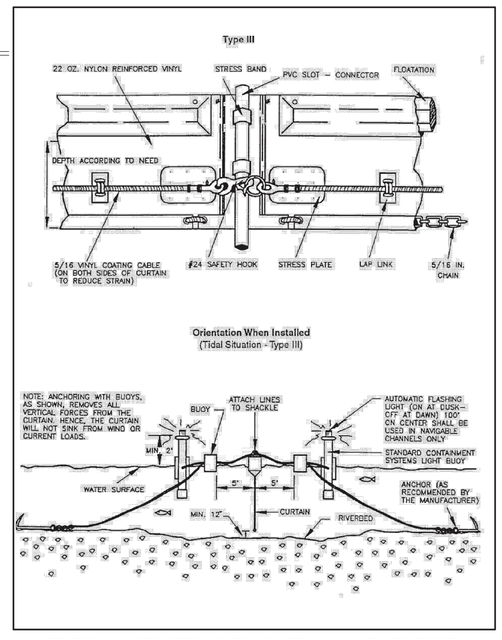
N.T.S.



PLAN

CONSTRUCTION ENTRANCE/EXIT

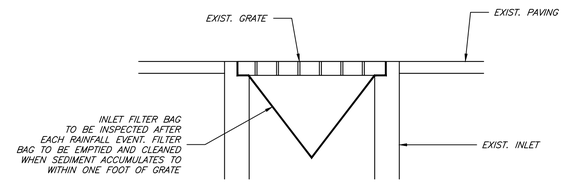
N.T.S. EC-016



NOTE: EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING FLOATING TURBIDITY BARRIER, SPECIFICATIONS, REQUIREMENTS, AND INSTALLATION SHALL BE PER THE FDEP FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTORS MANUAL, LATEST EDITION.

TYPE III FLOATING TURBIDITY BARRIER

N.T.S.



INLET PROTECTION

N.T.S.

EROSION CONTROL DETAILS

SYMBOL	DATE	REVISION

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3900 Commonwealth Boulevard, Tallahassee, FL 32399 (850) 245-2157

ISSUE DATE: 02/14/2025 100% PLANS
COMP. FILE No: 21-5436
STATE PROJECT No: 61307C-N3803

George & Associates Consulting Engineers, Inc.
CIVIL • ENVIRONMENTAL • TRANSPORTATION ENGINEERING
ENGINEERING BUSINESS NO. 2829
1957 Commonwealth Lane, Suite 200, Tallahassee, FL 32303.
PHONE: (850)210-3544 FAX: (850)210-3545

DESIGNER: SMU
DRAWN BY: SMU
REVIEWED BY: JHP
Consultant:

PROFESSIONAL REGISTRATION
JAMES H. PETERSON IV
LICENSE No 80465
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES H. PETERSON IV
State of Florida P.E. # 80465

CAMP HELEN STATE PARK

SHEET TITLE: EROSION CONTROL DETAILS

PROJECT TITLE: PARK IMPROVEMENT

SHEET NO. C904

DRDOC1 March 3, 2025 P:\Projects\21-5436 EDC Camp Helen State Park\Drawings\Civil\10 Details\C901 Construction Details.dwg