

TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE 1

TAYLOR COUNTY, FLORIDA

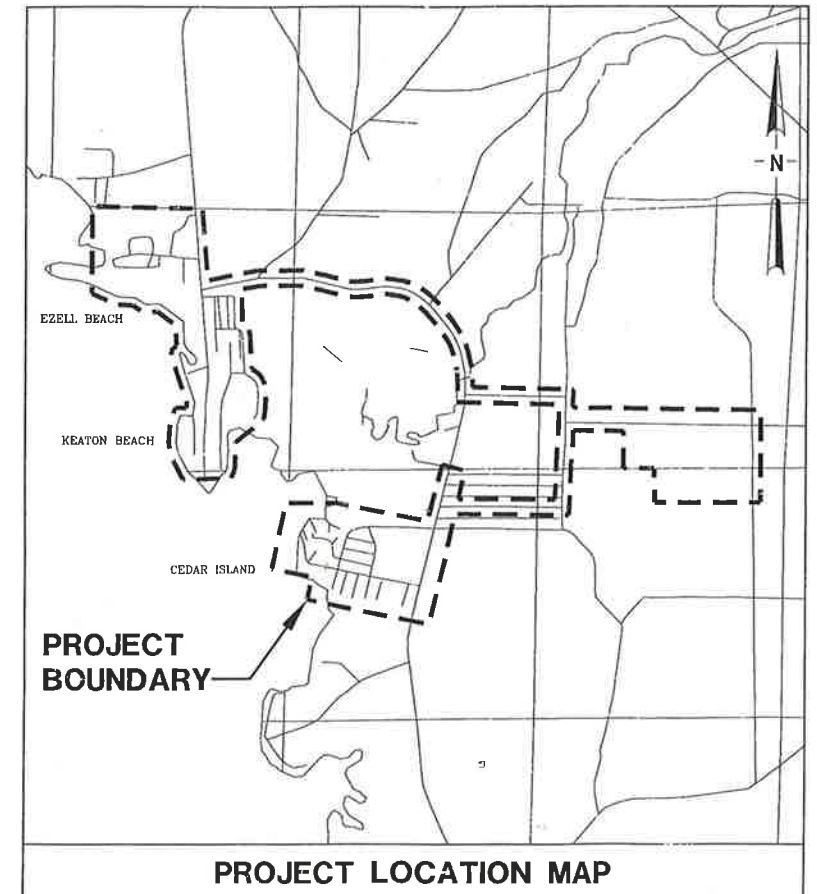
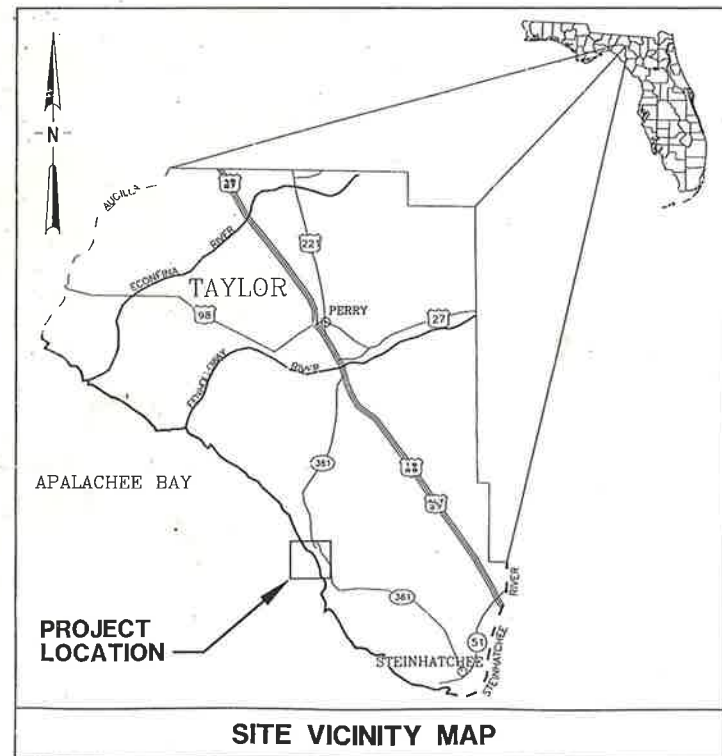
PREPARED BY:

*Jones
Edmunds &
Associates, Inc.*
JEA

730 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5821 CONSULTING ENGINEERS AND SCIENTISTS

A COOPERATIVE PROJECT BETWEEN:

TAYLOR COASTAL WATER & SEWER DISTRICT
USDA RURAL DEVELOPMENT
SUWANNEE RIVER WATER MANAGEMENT DISTRICT
STATE OF FLORIDA - OTTED
US ENVIRONMENTAL PROTECTION AGENCY



As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

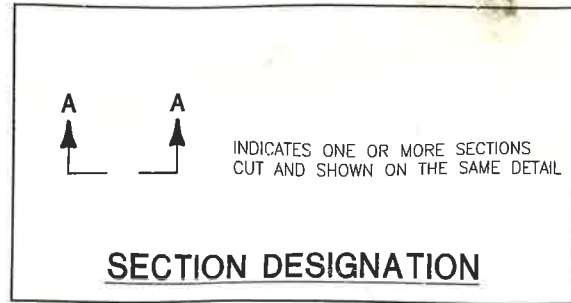
PROJECT NO: 20450-001-03

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

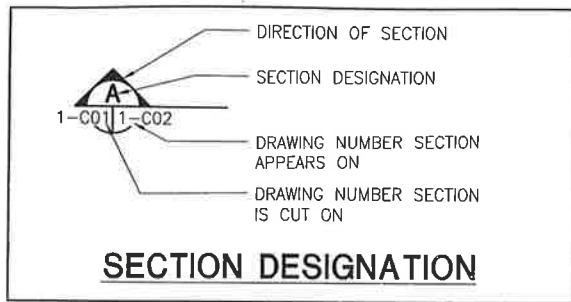
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Sheet One of Sixty
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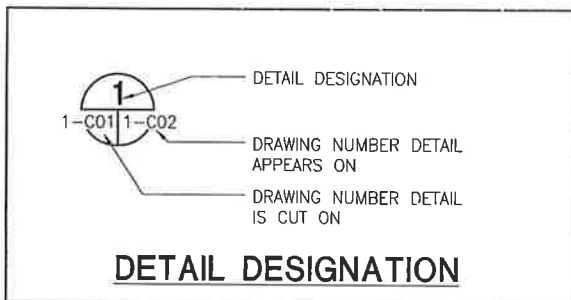
August 2006



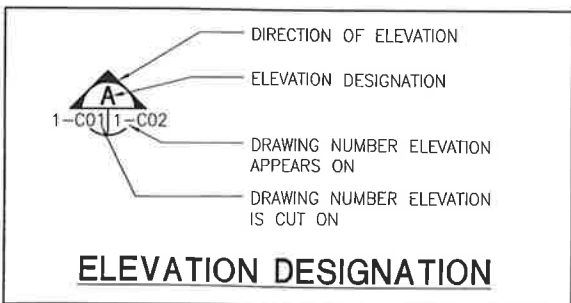
SECTION DESIGNATION



SECTION DESIGNATION



DETAIL DESIGNATION



ELEVATION DESIGNATION

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Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

DESIGNED	TA
DRAWN	TA
CHECKED	JHH/CCB
BY	JOHN H. HORVATH
APPRD.	PROJECT ENGINEER

700 Northeast Waldo Road/Cocoaville, Florida 32941 / (321) 377-5821

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

DRAWING INDEX

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY JOHN H. HORVATH P.E. # 47093		DATE APR 2004	PROJECT NO. 20450-001-03
		SCALE NONE	DWG. NO. 0-V02

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ABBREVIATIONS

GENERAL

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AFF	ABOVE FINISHED FLOOR
AIP	ABANDONED IN PLACE
APP	APPROVE, APPROVED
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
BCS	BLACK CARBON STEEL
BLDG	BUILDING
BM	BENCH MARK
BTM	BOTTOM
CB	CATCH BASIN
CLF	CHAIN LINK FENCE
CM	CENTIMETER
CMP	CORRUGATED METAL PIPE
CO	COMPANY
CONST	CONSTRUCTION
CONT	CONTINUOUS
C/M	CONSTRUCTION MONUMENT
CSB	COMPLEX SUPPORT BUILDING
CTRD	CENTERED
CXT	COMMUNICATION EXCHANGE TERMINAL
DBL	DOUBLE
DEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DES	DESIGNATION
DET	DETAIL
DH	DOUBLE HUNG
DIA	DIAMETER
Ø	DIAMETER
DN	DOWN
DOM	DOMESTIC
DWG	DRAWING
E	EASTING
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
EOL	EDGE OF LIMEROCK
EOP	EDGE OF PAVEMENT
EQ	EQUAL, EQUALLY
EQUIP	EQUIPMENT
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FAC	FLORIDA ADMINISTRATIVE CODE
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FE	FINAL EFFLUENT
FEOP	FROM EDGE OF PAVEMENT
FEOL	FROM EDGE OF LIMEROCK
FEOWL	FROM EDGE OF WHITE LINE
FIG	FIGURE
FIN	FINISHED
F	FIXED
FG	FIBERGLASS
FL	FLOOR
FLEX	FLEXIBLE
FPP	FIRE PROTECTION PIPING
FSS	FIXED SERVICE STRUCTURE
FT	FOOT
GAL	GALLON
GALV	GALVANIZED
GND	GROUND
GR	GRADE
GS	GALVANIZED STEEL
H	HIGH
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
HP	HIGH POINT
HP-GAS	HIGH PRESSURE GAS
HT	HEIGHT
HWL	HIGH WATER LEVEL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
IW	INDUSTRIAL WATER
LBR	LIMEROCK BEARING RATIO
LT	LEFT
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MFR'S	MANUFACTURER'S
MH	MANHOLE
MIN	MINIMUM

MISC	MISCELLANEOUS
N	NORTHING
N/A	NOT APPLICABLE
NAD	NORTH AMERICAN DATUM
N/AVAIL	NOT AVAILABLE
NAVD	NORTH AMERICAN VERTICAL DATUM
NE	NORTHEAST
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
No	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
NW	NORTHWEST
#	NUMBER DESIGNATION
OD	OUTSIDE DIAMETER
ORD	ORDINANCE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P/L	PROPERTY LINE
PC	POINT OF CURVATURE
PE	POND EFFLUENT
PI	POINT OF INTERSECTION
PMJF	PRE-MOLDED JOINT FILLER
POL	PETROLEUM, OILS, & LUBRICANTS
PROTEC	PROTECTION
PRT	PRESSURE TREATED
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PZ	PIEZOMETER
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE (INFORMATION OBTAINED FROM DRAWINGS BY OTHERS)
REQ	REQUIRED
REV	REVISION
RFF	REFERENCED FINISHED FLOOR
RT	RIGHT
RW	RECLAIMED WATER
R/W	RIGHT OF WAY
S	SLOPE
SAN	SANITARY SEWER
SDR	STANDARD DIMENSION RATIO
SCH	SCHEDULE
SE	SOUTHEAST
SEC	SECOND
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SLD	SLIDER
SPEC	SPECIFICATIONS, SPECIFIED
SPT	STANDARD PENETRATION TEST
SQ	SQUARE
SRWMD	SUWANNEE RIVER WATER MANAGEMENT DISTRICT
SS	STAINLESS STEEL
STA	STATION
STAT	STATIONARY
STD	STANDARD
STL	STEEL
STOR	STORAGE
SW	SOUTHWEST
SYM	SYMBOL
TBM	TEMPORARY BENCH MARK
THK	THICK
TYP	TYPICAL
UC	UNDER CABINET
UG	UNDERGROUND
USGS	UNITED STATES GEOLOGICAL SURVEY
USC & GS	UNITED STATES COASTAL AND GEODETIC SURVEY
UV	ULTRAVIOLET LIGHT
VERT	VERTICAL
VLDPE	VERY LOW DENSITY POLYETHYLENE
W	WIDE
WE	WATER ELEVATION
WGT	WEIGHT
WSEL	WATER SURFACE ELEVATION
WT	WEIGHT
WWTP	WASTEWATER TREATMENT PLANT (CONTROL ELEVATION UNLESS OTHERWISE NOTED)

ELECTRICAL

AZ	ALARM ZONE
ATS	AUTOMATIC TRANSFER SWITCH
BC	BATTERY CHARGER
BKR	BREAKER
CP	CATHODIC PROTECTION
CIR	CIRCUIT
C/B	CIRCUIT BREAKER
C	CONDUIT
CR	CONTROL RELAY
CS	CONTROL SWITCH
CONN	CONNECT, CONNECTED, CONNECTION
COMP	COMPRESSED
EMT	ELECTRICAL METALLIC TUBING
FP&L	FLORIDA POWER AND LIGHT
GFI	GROUND FAULT INTERRUPTER
G	GROUND
HZ	HERTZ
KV	KILOVOLT
KVA	KILOWATT VOLTAGE AMPERE
KW	KILOWATT
LLT	LIQUID LEVEL TRANSMITTER
LBS	LOAD BREAK SWITCH
MCC	MOTOR CONTROL CENTER
NEC	NATIONAL ELECTRICAL CODE
PB	PUSH BUTTON
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PRI	PRIMARY
PS	PRESSURE SWITCH
R	RED LIGHT
RPM	REVOLUTIONS PER MINUTE
RSC	RIGID STEEL CONDUIT
SEC	SECONDARY
SW	SWITCH
SYS	SYSTEM
TS	TAMPER SWITCH
TD	TERMINAL DISTRIBUTION
TZ	TROUBLE ZONE
UH	UNIT HEATER
XFMA	TRANSFORMER WATT

MECHANICAL

ARV	AIR RELEASE VALVE
AV	AIR VALVE
AVV	AIR VACUUM VALVE
B	AERATION BLOWER
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BLD	BLIND
BSJ	BELL AND SPIGOT JOINT
BV	BALL VALVE
BWJ	BUTT WELDED JOINT
CARV	COMBINATION AIR RELEASE/VACUUM RELEASE VALVE
CCC	CHLORINE CONTACT CHAMBER
CHDPE	CORRUGATED HIGH DENSITY POLYETHYLENE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
C/O	CLEANOUT
CMP	CORRUGATED METAL PIPE
CON	CONCENTRIC
CP	CORRUGATED PIPE
CS	CARBON STEEL
CU	COPPER
CW	COLD WATER
CV	CHECK VALVE
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
ECC	ECCENTRIC
EJ	END JOINT
ELB	ELBOW
FCA	FLANGED COUPLING ADAPTER
FE	FIRE EXTINGUISHER
FF	FLAT FACE
FH	FIRE HYDRANT
FJ	FLANGED JOINT
FLG	FLANGE
FRP	FIBERGLASS REINFORCED PLASTIC
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
HVAC	HEATING VENTILATION AIR CONDITIONING
HW	HOT WATER
HYD	HYDRANT
INCUB	INCUBATOR
LR	LONG RADIUS
M	ANOXIC MIXER
MECH	MECHANICAL
MJ	MECHANICAL JOINT
MLRP	MIXED LIQUOR RECYCLE PUMP
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NPT	AMERICAN STANDARD TAPER PIPE THREAD
OS&Y	OUTSIDE STEM & YOKE
PE	PLAIN END
PIV	POST INDICATOR VALVE
POJ	PUSH-ON JOINT
PRV	PRESSURE REDUCING VALVE
PV	PLUG VALVE
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
RF	RAISED FACE
RFG	REFRIGERATOR
RJ	RESTRAINED JOINT
RMJ	RESTRAINED MECHANICAL JOINT
RP	REDUCED PRESSURE
RPOJ	RESTRAINED PUSH-ON JOINT
SCH	SCHEDULE
SOF	SLIP-ON FLANGE
SR	SHORT RADIUS
SWJ	SOLVENT WELD JOINT
T	THERMOSTAT
TBLK	THRUST BLOCK
TCS	THREADED GALVANIZED STEEL
TGSP	THREADED GALVANIZED STEEL PIPE
THRD	THREAD(ED)
TS	TUBULAR STEEL
V	VALVE
WH	WATER HEATER
WJ	WELDED JOINT
WS	WELDED STEEL

STRUCTURAL

AA STD	ALUMINUM ASSOCIATION STANDARD
ACI	AMERICAN CONCRETE INSTITUTE
AISI	AMERICAN IRON AND STEEL INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALUM	ALUMINUM
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
AWS	AMERICAN WELDING SOCIETY
<	ANGLE
B/	BOTTOM OF
⊕	CENTERLINE
CC	CENTER TO CENTER
CF	COLUMN FOUNDATION
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
EF	EACH FACE
EW	EACH WAY
EXP JT	EXPANSION JOINT
FDN	FOUNDATION
FG	FIBERGLASS
F/F	FINISH FLOOR
FP	FULL PENETRATION
FT#	FOOT POUNDS
GR	GUARDRAIL
GRTG	GRATING
HK	HOOK
HR	HANDRAIL
LF	LINEAR FEET
KB	KNEE BRACE
kPa	KILOPASCAL
LG	LONG
LL	LIVE LOAD
LLV	LONG LEG VERTICAL
MCJ	MASONRY CONTROL JOINT
MPD	MODIFIED PROCTOR DENSITY
MPH	MILES PER HOUR
OC	ON CENTER(S)
PCF	POUNDS PER CUBIC FEET
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PT	PRESSURE TREATED
#/IN	POUNDS PER INCH
R	RADIUS
REINF	REINFORCEMENT, REINFORCING
SBC	STANDARD BUILDING CODE
SDI	STEEL DECK INSTITUTE
SJI	STEEL JOIST INSTITUTE
SP	SPACING, SPACED
T/	TOP OF
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOSJ	TOP OF STEEL JOIST
TS	TUBULAR STEEL
TSM	TONS PER SQUARE METER
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WF	WALL FOOTING
WGT	WEIGHT
WP	WELD POINT
WWF	WELDED WIRE FABRIC

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DATE: _____

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DESIGNED	TA
DRAWN	TA
CHECKED	JHH/CCB
BY	JOHN H. HORVATH
APPROVED	PROJECT ENGINEER



**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

ABBREVIATIONS

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JEA CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED FOR JEA BY	APR 2004	20450-001-03
JOHN H. HORVATH	SCALE	DWG. NO.
P.E. # 47093	NONE	0-V03

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON NAVD OF 1988, UNLESS OTHERWISE NOTED. VERTICAL CONTROL SHOWN AT THE PROPOSED PLANT/SPRAYFIELD SITE IS REFERENCED TO NAVD 1988 AND IS BASED ON NGS MONUMENTS TAY 27 (AR 1691), TAY 29 (AR 1694), TAY 30 (AR 1695), TAY 31 (AR 1696) AND 8727793 E TIDAL (AR 1692).
2. HORIZONTAL CONTROL IS REFERENCED TO NAD83 STATE PLANE COORDINATES (FLORIDA NORTH ZONE-LAMBERT PROJECTION) AND IS BASED ON NGS MONUMENTS TAYLOR 39 (AI 6421), TYLOR 40 (AI 6422) AND KEATON (AR 1609).
3. **SURVEY INFORMATION**
 - A. ROUTE UTILITY SURVEY PROVIDED BY DELTA LAND SURVEYORS, INC.
 - B. AERIAL AND TOPOGRAPHIC SURVEY PROVIDED BY PICKETT & ASSOCIATES, INC.
 - C. SEPTIC AND ELECTRIC METER SURVEY PROVIDED BY JONES, EDMUNDS & ASSOCIATES, INC.
4. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS WHICH MAY BE DISTURBED BY CONSTRUCTION.
5. THE CONTRACTOR IS ADVISED NOT TO SCALE FROM DRAWINGS BUT TO FIELD VERIFY ALL DIMENSIONS. THE DIMENSIONS OF SPECIFIED AND FURNISHED PRODUCTS AND MATERIALS TAKE PRECEDENCE OVER DIMENSIONS INDICATED ON THE DRAWINGS.
6. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS BUT ARE NOT PURPORTED TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA. CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE DRAWINGS) AFFECTING HIS WORK.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND TO ABIDE BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT (LAWS OF FLORIDA 90-96) EFFECTIVE OCTOBER 1, 1990. NO UTILITY TRENCHES SHALL BE LEFT OPEN OVERNIGHT.
8. **EROSION & SEDIMENTATION CONTROL:** SEDIMENT & EROSION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AREAS OF OFF-SITE DISCHARGE DURING CONSTRUCTION SHALL BE PROTECTED WITH A SEDIMENT BARRIER PER FDOT INDEX #102 TO PREVENT OFF-SITE DISCHARGE OF SEDIMENTS. TEMPORARY SEED & MULCH SHOULD BE USED TO CONTROL ON-SITE EROSION WHEN IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. PERMANENT VEGETATION SHALL BE PLACED AS EARLY AS POSSIBLE ON ALL SLOPES STEEPER THAN 3-FOOT HORIZ. TO 1-FOOT VERTICAL. SOD SHALL BE PINNED AS REQUIRED. ALL EROSION & SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN WORKING ORDER THROUGHOUT THE CONSTRUCTION PHASE.
9. ALL EXISTING SEWER, WATER, ELECTRICAL AND OTHER UTILITY SERVICES SHALL BE MAINTAINED DURING THE ENTIRE CONTRACT PERIOD.
10. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL FACILITIES THROUGHOUT THE CONTRACT PERIOD.
11. THE CONTRACTOR SHALL ACCURATELY LOCATE AND PROTECT ALL UNDERGROUND PIPES, CABLES, UTILITIES, ETC. ALONG THE ROUTE OF CONSTRUCTION. THIS SHALL BE DONE PRIOR TO EXCAVATION TO AVOID DAMAGE TO SUCH ITEMS. DAMAGED ITEMS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR WITHOUT AN INCREASE IN THE CONTRACT TIME OR PRICE.
12. THE CONTRACTOR IS RESPONSIBLE FOR BRACING, SHORING, OR PROVIDING OTHER MEANS NECESSARY TO PROTECT AND SUPPORT EXISTING STRUCTURES/UTILITIES EXPOSED OR UNEXPOSED AND SOIL SLOPES/EMBANKMENTS DURING CONSTRUCTION.
13. THE CONTRACTOR SHALL RESTORE TO THE ORIGINAL CONDITION ALL CULVERTS, GUTTERS, INLETS, AND OTHER DRAINAGE STRUCTURES DISTURBED BY CONSTRUCTION OPERATIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
14. THE CONTRACTOR SHALL RESTORE WORK AREAS TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION INCLUDING REPLACEMENT OF DAMAGED PLANTS, TREES, SHRUBBERY, SIGNAGE, SIDEWALK, STRIPING, PAVEMENT MARKINGS, FENCING, ROADS, DRIVEWAYS, AND OTHER IMPROVEMENTS.
15. ALL SIGNAGE, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO "FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS" LATEST EDITION.
16. THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS IN THE ROUTE AS NECESSARY TO AVOID DAMAGE TO TREES, SHRUBS, ETC. SUCH ADJUSTMENTS SHALL REQUIRE THE APPROVAL OF THE ENGINEER PRIOR TO CONSTRUCTION.
17. PROPOSED UTILITY ALIGNMENTS ARE SUBJECT TO ADJUSTMENTS IN THE FIELD IN ORDER TO AVOID UTILITY CONFLICTS. SUCH ADJUSTMENTS SHALL REQUIRE THE APPROVAL OF THE ENGINEER PRIOR TO CONSTRUCTION.
18. DEFLECTION OF PIPE AT JOINTS SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION. MINIMUM BENDING RADIUS SHALL BE 25% GREATER THAN THE MANUFACTURER'S RECOMMENDED MINIMUM BENDING RADIUS.
19. PROPOSED SEWER PIPES SHALL BE LAID AT LEAST 6 FEET AND PREFERABLY 10 FEET FROM EXISTING WATER PIPES, EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS. THIS DISTANCE SHALL BE MEASURED FROM THE OUTSIDE OF THE WATER PIPE TO THE OUTSIDE OF THE PROPOSED SEWER PIPE. AT LOCATIONS WHERE THIS HORIZONTAL SEPARATION CAN NOT BE ACHIEVED, THE SEWER PIPE SHALL BE FULLY ENCASED IN CONCRETE IN CONFORMANCE WITH THE CONCRETE EASEMENT DETAIL SHOWN ON THE DRAWINGS. AS AN ALTERNATE TO CONCRETE ENCASEMENT, THE CONTRACTOR MAY INSTALL THE SEWER PIPE DEEPER PROVIDED THE CROWN OF THE SEWER PIPE IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER PIPE, HOWEVER, A MINIMUM OF 3 FEET HORIZONTAL SEPARATION MUST BE MAINTAINED.
20. AT LOCATIONS WHERE A PROPOSED SEWER PIPE AND A WATER PIPE CROSS, THE PROPOSED SEWER PIPE SHALL BE INSTALLED BENEATH THE WATER PIPE WITH A MINIMUM VERTICAL SEPARATION OF 18 INCHES IN ACCORDANCE WITH THE TYPICAL UTILITY CONFLICT ADJUSTMENT DETAIL SHOWN ON THE DRAWINGS. AT LOCATIONS WHERE THE MINIMUM VERTICAL SEPARATION CAN NOT BE ACHIEVED, THE PROPOSED SEWER PIPE, FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, SHALL BE FULLY ENCASED IN CONCRETE IN CONFORMANCE WITH THE CONCRETE ENCASEMENT DETAIL SHOWN ON THE DRAWINGS. HOWEVER, A MINIMUM OF 6 INCH VERTICAL SEPARATION MUST BE MAINTAINED.
21. AT LOCATIONS WHERE A PROPOSED SEWER PIPE AND AN EXISTING UTILITY CROSS (EXCLUDING WATER PIPES), THE PROPOSED SEWER PIPE SHALL BE INSTALLED BENEATH THE EXISTING UTILITY IN ACCORDANCE WITH THE TYPICAL UTILITY CONFLICT ADJUSTMENT DETAIL SHOWN ON THE DRAWINGS. WITH APPROVAL FROM THE ENGINEER, THE CONTRACTOR MAY INSTALL THE PROPOSED SEWER PIPE OVER THE EXISTING UTILITY (EXCLUDING WATER PIPES) PROVIDED THE MINIMUM REQUIRED COVER DEPTH AND THE MINIMUM VERTICAL SEPARATION REQUIREMENTS PRESENTED IN THE TYPICAL UTILITY CONFLICT ADJUSTMENT DETAIL ARE MAINTAINED. IN THE EVENT THAT IT IS NOT POSSIBLE TO MAINTAIN THE MINIMUM REQUIRED COVER DEPTH, THE CONTRACTOR WILL BE REQUIRED TO INSTALL THE PROPOSED SEWER PIPE OVER THE EXISTING UTILITY IN ACCORDANCE WITH THE CONCRETE EASEMENT DETAIL SHOWN ON THE DRAWINGS.
22. WITH APPROVAL FROM THE ENGINEER, PROPOSED HDPE PIPELINES MAY BE INSTALLED BENEATH UTILITIES WITHOUT THE USE OF FITTINGS AS SHOWN IN THE TYPICAL UTILITY CONFLICT ADJUSTMENT DETAIL (I.E., BY DEFLECTING/BENDING THE HDPE PIPELINE). AT NO TIME SHALL THE DEGREE OF DEFLECTION OF ANY DESCENDING LEG (IN THE FLOW DIRECTION) EXCEED 11" FROM THE HORIZONTAL.
23. IN THE EVENT THAT A UTILITY CONFLICT CAN NOT BE RESOLVED BY MAKING MINOR ROUTE ADJUSTMENTS OR BY UTILIZING THE TYPICAL UTILITY CONFLICT ADJUSTMENT DETAIL, THE CONTRACTOR SHALL SUBMIT A RELOCATION PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK. ALL RELOCATION EFFORTS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND ANY AFFECTED UTILITY COMPANIES.
24. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL BRANCH STUB OUTS (INCLUDING THE ISOLATION VALVES) SHALL BE THE SAME SIZE AS THE ADJACENT STRAIGHT RUN OF PIPE.
25. FOR GRAVITY SERVICE PIPING AND WWTP YARD PIPING, LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS. PRESSURE PIPING SHALL BE LAID TO A MINIMUM 30" COVER, EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS.
26. SIZE OF FITTINGS SHOWN ON PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE. UNLESS OTHERWISE INDICATED, TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
27. PIPE HANGERS AND SUPPORTS ARE NOT SHOWN UNLESS A SPECIAL TYPE OR CONFIGURATION IS REQUIRED. FINAL SUPPORTS, LOCATIONS, AND TYPES SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. MAXIMUM SPACING SHALL BE AS SPECIFIED.
28. ALL JOINTS SHALL BE WATERTIGHT. STANDARD WALL PIPE DETAIL SHALL BE USED WHEREVER PIPING PASSES FROM A LIQUID HOLDING CONCRETE STRUCTURE.
29. ALL FLEXIBLE CONNECTORS OR FLANGED COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST TIES, BLOCKS, OR ANCHORS. UNLESS OTHERWISE NOTED, THRUST PROTECTION SHALL BE ADEQUATE FOR TEST PRESSURES.
30. SYMBOLS, LEGENDS, AND PIPE USE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE PLANS, WHEREVER APPLICABLE. ALL OF THE VARIOUS PIPING APPLICATIONS ARE NOT NECESSARILY USED IN THE PROJECT.
31. ALL BURIED AND EXPOSED PIPING SHALL BE PRESSURE TESTED AS SPECIFIED. ALL PRESSURE PIPING WHICH IS NOT RESTRAINED BY JOINT TYPE OR BY USE OF THRUST BLOCKS SHALL BE RESTRAINED USING SPECIFIED TIE ROD OR MECHANICAL RESTRAINT SYSTEMS. ALL JOINTS SHALL BE RESTRAINED.
32. NUMBER AND LOCATION OF UNIONS SHOWN ON PLANS ARE APPROXIMATE, PROVIDE ALL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
33. WHERE A GROOVED END COUPLING IS SHOWN, IT SHALL BE THE RIGID JOINT TYPE, UNLESS OTHERWISE SPECIFIED. WHERE A FLANGED COUPLING ADAPTER IS SHOWN, A STANDARD FLANGE SHALL BE USED TO JOIN THE COUPLING ADAPTER.
34. ALL ANCHORS AND FASTENERS SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE NOTED.
35. CONTRACTOR SHALL PROVIDE MEANS TO DEWATER SOILS FOR ALL CONSTRUCTION WORK INCLUDING WORK TO DRAIN, CLEAN, REHABILITATE, REPAIR, MODIFY, OR CONSTRUCT NEW OR EXISTING STRUCTURES.
36. ALL RESTRAINED JOINT (RJ) BURIED DUCTILE IRON PIPE SHALL BE RPOJ UNLESS OTHERWISE INDICATED.
37. EXISTING PIPING AND EQUIPMENT IS SHOWN LIGHT-LINED AND NEW PIPING, NEW WORK AND NEW EQUIPMENT IS SHOWN HEAVY-LINED.
38. CONTRACTOR SHALL PREPARE MAINTENANCE OF TRAFFIC PLAN. CONTRACTOR SHALL ADHERE TO REQUIREMENTS AS SET FORTH IN LATEST EDITIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

DESIGNED	FG
DRAWN	TA
CHECKED	JHH/CCB
PROJECT ENGINEER	JOHN H. HORVATH
LTR.	DATE
REVISIONS	BY
APPROD.	


Jones Edmunds & Associates, Inc.
 JEA CONSULTING ENGINEERS AND SCIENTISTS
780 Northwest 14th Blvd/Cocoa, Florida 32941 / (321) 377-5821

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

GENERAL NOTES

Sheet Four of Sixty none of these sheets shall be considered complete without the others		
JEA CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED FOR JEA BY	APR 2004	20450-001-03
JOHN H. HORVATH	SCALE	DWG. NO.
P.E. # 47093	NONE	0-V04

NOTES

GENERAL

- CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITIES FROM DAMAGE.
- TEMPORARY SHORING AND BRACING FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXCAVATED MATERIAL AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL BUILDING PERMITS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONSTRUCTION BY MAKING FIELD MEASUREMENTS PRIOR TO COMMENCING WORK.
- SCALE SHOWN ON DRAWINGS IS FOR REFERENCE ONLY. DRAWINGS SHALL NOT BE SCALED & ITEMS SHALL NOT BE CONSTRUCTED FROM SCALED DRAWINGS. CALL ENGINEER IF IT CANNOT BE CONSTRUCTED WITH DIMENSIONS SHOWN OR CONFLICTS WITH OTHER DRAWINGS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

DESIGN LOADS

- DESIGN CRITERIA
 - FLORIDA BUILDING CODE - 2001 EDITION
 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318)
 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)
 - CONCRETE SANITARY ENGINEERING STRUCTURES (ACI 350R)
 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530)
- ROOF LIVE LOAD 16 PSF (WITH FBC AREA REDUCTIONS)
- DESIGN WIND LOADS PER FBC-2001 CRITERIA

A) VELOCITY	110 MPH
B) IMPORTANCE FACTOR	1.0
C) EXPOSURE CATEGORY	"B"
D) COMPONENT & CLADDING PRESSURES:	
i) WALLS	29.1 PSF
ii) ROOF	42.1 PSF
iii) ROOF OVERHANG	68.3 PSF

* THESE ARE THE MINIMUM ALLOWED DESIGN PRESSURES FOR MANUFACTURED ITEMS (DOORS, WINDOWS, SHINGLES, ETC.) ATTACHED TO THE STRUCTURE. THEY SHALL BE CAPABLE OF RESISTING THESE PRESSURES AND BE CONNECTED TO THE STRUCTURE TO RESIST THESE PRESSURES.
- FLUID UNIT WEIGHT 65 PSF
- PROCESS RELATED STRUCTURES:

A) PROCESS TOP SLABS	100 PSF+EQUIPMENT
B) PROCESS & STORAGE SLABS	300 PSF
- DEFLECTION CRITERIA:

A) DEAD+LIVE LOADS	L/240
B) LIVE LOADS	L/360

ARCHITECTURAL NOTES

- PROVIDE R-19 BATT INSULATION ABOVE ALL CEILING AREAS.
- PROVIDE VINYL SOFFIT & VINYL FACIA AROUND THE ENTIRE ROOF PERIMETER.
- ALL DOORS, WINDOWS, HARDWARE, MILLWORK, SHOP DRAWINGS, FINISHES, AND COLORS SHALL BE SUBMITTED TO THE OWNER FOR PRIOR APPROVAL.
- PAINT: ALL COLORS SHALL BE SUBMITTED TO OWNER FOR PRIOR APPROVAL. PAINTING AND FLOOR SEALANTS SHALL BE AS SPECIFIED IN SECTION 0990 PAINTING AND COATING.
- OFFICE SINGLE DOORS (TYPE HG-1), AND EXTERIOR MAINTENANCE ROOM DOOR (TYPE SV-1) AND FRAMES SHALL BE AS MANUFACTURED BY CLINE ALUMINUM DOORS INC., BRADENTON, FLORIDA, MODEL 100BE, WITH STAINLESS STEEL HINGE PLATES, PINS, FASTENERS, EXTERIOR/INTERIOR LOCKABLE LEVER SET AND DEAD BOLT, ALUMINUM THRESHOLD, AND WEATHER STRIPPING/SEALS. TYPE SV-1 SHALL HAVE A 12"x12" INSPECTION WINDOW. TYPE HG-1 SHALL HAVE A 24"Wx30"H WINDOW W/ TEMPERED GLASS.
- BATHROOM DOOR (TYPE FF-1) AND FRAME SHALL BE AS MANUFACTURED BY CLINE ALUMINUM DOORS INC., BRADENTON, FLORIDA, MODEL 100BE, W/ LEVER HANDLE SARGENT 10G54 DORMITORY TYPE FOR 1-5/8"-2" DOORS. 2-3/4" STANDARD BACKSET, STAINLESS STEEL HINGE PLATES, PINS, FASTENERS, FINISH = 260 STAIN CHROME LJ TRIM - 2 ROSE, J LEVER. INSTALL HANDLE NO HIGHER THAN 48" AFF.
- IN THE OFFICE & MAINTENANCE ROOMS, FURNISH AND INSTALL UL LISTED 10 lb ABC CLASS DRY TYPE, HAND-HELD FIRE EXTINGUISHERS WITH STRAP HELD WALL MOUNT BRACKETS.
- ASPHALT COMPOSITION SHINGLE ROOF MATERIALS SHALL BE WARRANTED BY SHINGLE MANUFACTURER FOR 20 YEAR MINIMUM SERVICE LIFE IN FLORIDA. INSTALLER SHALL WARRANT TO OWNER ROOF FOR WORKMANSHIP AND LEAKS FOR 10 YEARS MINIMUM. PROVIDE STD. MFR'S COLOR SELECTION TO OWNER FOR APPROVAL.
- IN THE OFFICE AND INTERIOR STORAGE, PROVIDE HEAVY DUTY VINYL FLOOR TILES AND APPLY AS RECOMMENDED BY FLOOR TILE MANUFACTURER.
- ALL MANUFACTURERS MENTIONED ABOVE ARE RECOMMENDED, HOWEVER, "APPROVED EQUAL" SHALL BE ACCEPTED.
- ALL DOORS & WINDOWS MUST BE SUBMITTED TO THE OWNER FOR APPROVAL STATING BY THE MFG THAT THEY RESIST THE COMPONENT AND CLADDING WIND PRESSURES, NOTED ON THE DRAWINGS

FOUNDATIONS

- SEE GEOTECHNICAL INVESTIGATION FOR DETAILED INSTRUCTIONS REGARDING REMOVAL OF OBJECTIONABLE MATERIALS, BACKFILLING, DENSIFICATION OF EXISTING SOIL, GROUND CONTROL, AND TESTING.
- GEOTECHNICAL INVESTIGATION BY: GEOENGINEERING AND TESTING, INC. GTI DOCUMENT NUMBER: 21188 DATED: JUNE 5, 2001
- STRIP ALL ORGANIC OR UNSUITABLE MATERIAL. EXCAVATE TO BOTTOM OF FOUNDATION & PROOF ROLL WITH 10 TON VIBRATORY ROLLER TO 95% PER ASTM D-1557 FOR 1'-0" BELOW EXCAVATION. PLACE CLEAN GRANULAR FILL IN 6 INCH LAYERS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY AS DETERMINED BY ASTM D-1557. TEST THE INSITU SOIL & EACH LIFT OF FILL FOR COMPACTION AT THE FOLLOWING FREQUENCIES:

1) STRIP FOUNDATIONS:	ONE TEST FOR EVERY 50 LINEAR FEET.
2) BUILDING OR STRUCTURE PAD:	ONE TEST FOR EVERY 750 SQUARE FEET.
- DEWATER, AS REQUIRED, SUCH THAT THE EXCAVATIONS ARE DRY AT THE TIME OF CONSTRUCTION AND CONCRETE PLACEMENT.
- UNLESS NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS.
- SOIL BEARING STRENGTH: 2500 PSF
- PROVIDE SOIL TREATMENT, TERMITICIDE, FOR THE ENTIRE BUILDING FOOTPRINT AND 3 FEET BEYOND.

CONCRETE

- THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY:

ACI 318(CODE)	ACI 304(PLACING)
ACI 306(WINTER CONCRETE)	ACI 315(DETAILING)
ACI 305(HOT WEATHER CONCRETE)	ACI 347(FORM WORK)
ACI 211.1(MIX PROPORTIONING)	ACI 350(ENV. STRUCT.)
- THE REQUIRED CONCRETE STRENGTH BASED ON AN AGE OF 28 DAYS FOR ELEMENTS IN THE STRUCTURE SHALL NOT BE LESS:

A) 4000 PSI FOR SLAB ON GRADE THICKER THAN 6".
B) 3000 PSI FOR FOUNDATIONS AND SLAB ON GRADE 6" THICK OR LESS, NOT HOLDING LIQUID.
C) 4000 PSI FOR CONCRETE BEAMS, ELEVATED SLABS, COLUMNS, AND LIQUID HOLDING TANKS.
D) 2500 PSI FOR PIPE ENCASEMENT
- SITE ADDED WATER IS PERMITTED PROVIDED SLUMP SPECIFICATIONS AND W/C RATIO ARE NOT EXCEEDED, HOWEVER NOT MORE THAN ONE GALLON OF WATER PER CUBIC YARD MAY BE USED TO ADJUST THE MIX AT THE JOB SITE.
- CONSOLIDATE ALL CONCRETE, OTHER THAN SLABS ON GRADE USING MECHANICAL VIBRATING EQUIPMENT.
- DO NOT PLACE CONCRETE DURING RAIN OR IF RAIN IS LIKELY TO OCCUR PRIOR TO CONCRETE HARDENING.
- EPOXY ADHESIVE FOR FASTENING BOLTS AND REBAR INTO CONCRETE AND MASONRY SHALL BE EITHER RAMSET EPCON CERAMIC 6 OR HILTI HY150.
- CLEARANCE FOR REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL BE:

A. CAST AGAINST GROUND	3"
B. SLABS AND WALLS CONTACTING WATER OR SEWAGE	
1. #5 BARS AND SMALLER	2"
2. #6 BARS AND LARGER	2"
C. CONCRETE EXPOSED TO EARTH OR WEATHER	
1. #5 BARS AND SMALLER	2"
2. #6 BARS AND LARGER	2"
- ALL REINFORCING BENDS AND LAPS, UNLESS NOTED OTHERWISE, SHALL CONFORM WITH ACI 318 CHAPTER 12 TENSION LAP (CLASS B) REQUIREMENTS.
- ALL REINFORCING BENDS, UNLESS NOTED OTHERWISE, SHALL BE A 90° STANDARD HOOK AS DEFINED IN ACI 318.
- UNLESS OTHERWISE NOTED, ALL WALL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALL.
- PROVIDE 3/4" CHAMFER ON ALL EXPOSED EDGES OF CONCRETE.
- CONTINUOUS WATERSTOPS AS SPECIFIED SHALL BE INSTALLED IN ALL CONSTRUCTION JOINTS IN LIQUID HOLDING TANKS UNLESS NOTED OTHERWISE. NO COLD JOINTS WILL BE ALLOWED

CONCRETE MASONRY

- THE FOLLOWING CODES AND SPECIFICATIONS APPLY:
 - ACI 530/ ASCE 5 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
 - ACI 530.1/ ASCE 6 SPECIFICATIONS FOR MASONRY STRUCTURES.
- CONCRETE MASONRY UNITS SHALL BE LOAD BEARING TYPE CONFORMING TO ASTM C-90, SAMPLED & TESTED PER ASTM C140, TYPE 2, HAVING A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI (NET AREA) f_m=1500 PSI. FOLLOW ALL CODES FOR FIRE RATING REQUIREMENTS.
- FILL CELLS AS NOTED ON DRAWINGS WITH COARSE GROUT CONFORMING TO ASTM C-476 HAVING A SLUMP RANGE OF 9" +/- 1". TEST GROUT PER ASTM C1019 FOR EVERY 400 SF OF WALL.
- PROVIDE GALVANIZED WIRE LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16" OC. (9 GAGE LADDER MINIMUM) UNLESS NOTED OTHERWISE. PROVIDE PREFABRICATED TEE, CORNER JOINT REINFORCING.
- THE BEAMS CAST ON MASONRY WALLS SHALL BE CONSTRUCTED SO TO KEY AND BOND INTO BLOCK CELLS. THE USE OF BUILDING PAPER OR SHEET PLASTIC TO CLOSE VOIDS BELOW IS NOT ALLOWED.
- ALL MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTED CONFIGURATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRACE THE WALLS FOR VERTICAL AND LATERAL LOADS THAT COULD POSSIBLY BE APPLIED PRIOR TO COMPLETION OF CONNECTIONS AT FLOORS OR ROOF FRAMING LEVELS.
- WALL REINFORCING IS CONTINUOUS FROM FOUNDATION TO TOP OF WALL UNLESS NOTED OTHERWISE.
- USE ASTM C-270 TYPE M OR S MORTAR.

ROUGH CARPENTRY

- DESIGN, FABRICATION, HANDLING & ERECTION OF PREFABRICATED WOOD TRUSSES SHALL COMPLY WITH APPLICABLE REQUIREMENTS & RECOMMENDATIONS OF THE TRUSS PLATE INSTITUTE. DESIGN AND ERECTION DRAWINGS SHALL BE SIGNED & SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, RETAINED BY THE MANUFACTURER. SUBMIT FOR REVIEW PRIOR TO FABRICATION:
 - DESIGN CALCULATIONS TO SUPPORT DEAD, LIVE & WIND LOADS.
 - ERECTION DRAWINGS, SHALL SHOW ALL LATERAL AND DIAGONAL BRACING AS REQUIRED IN THE TRUSS SYSTEM.
 - TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER AND SHOWN ON THE ERECTION DRAWINGS.
- SEE ROOF PLAN FOR ROOF SHEATHING.
- ALL SAWN LUMBER SHALL BE VISUALLY GRADED NO. 2 SOUTHERN PINE @ 19% MAX MOISTURE CONTENT, UNLESS NOTED OTHERWISE.
- PROVIDE LIGHT GAUGE METAL FASTENERS INDICATED. SECURE PER FASTENING SCHEDULE PUBLISHED IN THE MFG. CATALOGUE FOR THE MAXIMUM CAPACITY UNLESS NOTED OTHERWISE. FASTENERS EXPOSED TO AMBIENT CONDITIONS SHALL BE STAINLESS STEEL AND SECURED WITH STAINLESS STEEL NAILS. FASTENERS AT ALL OTHER LOCATIONS SHALL BE GALVANIZED STEEL. SUBSTITUTIONS ARE PERMITTED PROVIDED THAT THEY HAVE AN EQUAL OR GREATER CAPACITY THAN THE SPECIFIED FASTENERS AND CATALOGUE DATA IS SUBMITTED FOR APPROVAL BY THE ENGINEER.
- INSTALL ROUGH CARPENTRY WORK TO COMPLY WITH N.F.P.A. 11" MANUAL FOR WOOD FRAME CONSTRUCTION, FORM E30 - "APA DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL & COMMERCIAL," AND THE RECOMMENDATIONS OF ENGINEERED WOOD PRODUCTS MANUFACTURER.
- USE PRESSURE TREATED LUMBER WITH WATER BORNE PRESERVATIVES TO COMPLY WITH AWPA C2 FOR ALL MEMBERS IN CONTACT WITH MASONRY OR CONCRETE, EXPOSED FRAMING, AND ALL CURBS AND BLOCKING USED IN CONNECTION ROOFING AND WATERPROOFING.
- PROVIDE CONTINUOUS WOOD FRAMING MEMBERS OF SIZE AND SPACING INDICATED. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS.

REINFORCING STEEL

- CONCRETE REINFORCEMENT STEEL INSTITUTE (CRSI) AND AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS APPLY.
- ALL DEFORMED BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- SUBMIT FOR REVIEW SHOP DRAWINGS OF REINFORCING STEEL DETAILS PRIOR TO FABRICATING REINFORCING STEEL.
- LAP ALL WELDED WIRE FABRIC A MINIMUM DISTANCE OF ONE CROSS WIRE SPACING PLUS TWO INCHES.
- ALL REINFORCING STEEL SHALL BE SUPPORTED IN STANDARD ACCESSORIES, HELD RIGIDLY AND ACCURATELY IN PLACE, AND PROTECTED AGAINST DISPLACEMENT BEFORE AND DURING PLACEMENT OF CONCRETE.
- REINFORCEMENT CHAIR LEGS THAT REST ON CONCRETE SURFACES THAT WILL BE EXPOSED IN THE FINISHED STRUCTURE SHALL BE FABRICATED OF STAINLESS STEEL OR SHALL BE PLASTIC COATED.
- WHERE SPLICE LENGTHS ARE NOT SPECIFIED, USE 50 BAR DIAMETERS.

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

07/10/03 10:32 kfm 20450001-0-V05.dwg

DESIGNED	TWO
DRAWN	AGO
CHECKED	TWO
TIM W. OWEN, P.E.	PROJECT ENGINEER



 CONSULTING ENGINEERS AND SCIENTISTS

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

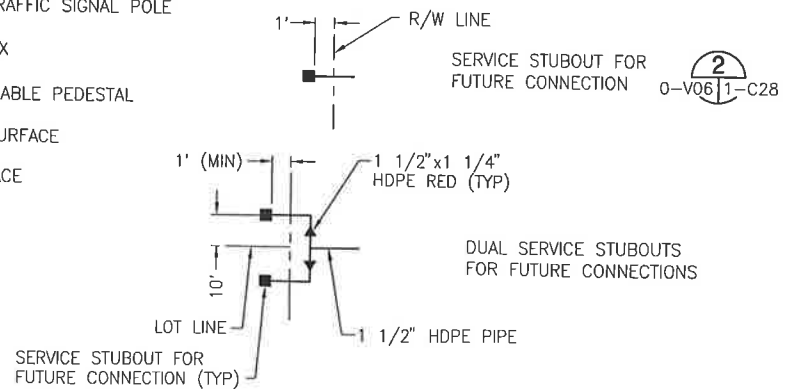
STRUCTURAL NOTES

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
TIM W. OWEN, P.E. P.E. # 52735	SCALE NONE	DWG. NO. 0-V05

Sheet Five of Sixty
none of these sheets shall be considered complete
without the others

DIVISION 1 LEGEND

---T---	OVERHEAD TELEPHONE LINE	⊕	EXISTING ELECTRIC METER
---FOC---	UNDERGROUND FIBEROPTIC CABLE	⊞	EXISTING SEPTIC TANK
---UT---	UNDERGROUND TELEPHONE LINE	⊗	PROPOSED AIR RELEASE VALVE FOR BURIED PIPE
---P---	OVERHEAD POWER LINE	●	PROPOSED GRINDER PUMP STATION (SIMPLEX - 5 FT DEEP) 0-V06 1-C27
---TV---	OVERHEAD TELEVISION CABLE	●	PROPOSED GRINDER PUMP STATION (DUPLIX - 8 FT DEEP) 0-V06 1-C27
---W---	UNDERGROUND WATER LINE	○-B	
---x---	FENCE LINE	—	PROPOSED SEWER MAIN
⊗	WATER VALVE	—	PROPOSED SEWER SERVICE LINE
⊙	FIRE HYDRANT	⊠	PROPOSED SEWER CLEANOUT (TERMINAL) 0-V06 1-C31
⊞	WATER METER	⊠	PROPOSED SEWER CLEANOUT (IN-LINE) 0-V06 1-C31
⊕	DRAINAGE MANHOLE	⊠	PROPOSED SEWER CLEANOUT (OFF-LINE) 0-V06 1-C31
⊞	TELEPHONE MANHOLE	▶	PROPOSED REDUCER
⊞	TELEPHONE PEDESTAL	⊕	PROPOSED GATE VALVE 0-V06 1-C30
⊞	TREE (SIZE AND TYPE AS NOTED)		PROPOSED PLUG
⊞	WOOD UTILITY POLE	---	PROPOSED ELECTRIC LINE
⊞	CONCRETE UTILITY POLE	▨	ASPHALT PAVEMENT RESTORATION 0-V06 1-C29
⊞	GUY WIRE ANCHOR	▨	LIMEROCK RESTORATION 0-V06 1-C29
⊞	WOOD LIGHT POLE	▨	CONCRETE RESTORATION 0-V06 1-C29
⊞	METAL LIGHT POLE		
⊞	CONCRETE LIGHT POLE		
⊞	SPAN POLE		
⊞	CONCRETE TRAFFIC SIGNAL POLE		
⊞	ELECTRIC BOX		
⊞	TELEVISION CABLE PEDESTAL		
⊞	CONCRETE SURFACE		
⊞	BRICK SURFACE		



DIVISION 1 AND 2 LEGEND

---	MATCHLINE
---SF---	SILT FENCE

DIVISION 2 LEGEND

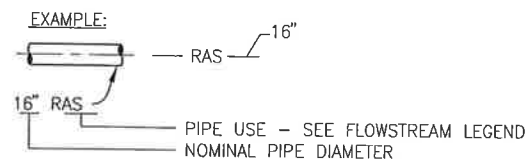
DOUBLE LINE	SINGLE LINE	DESCRIPTION
		EXISTING PIPE
		NEW PIPE
		EXISTING PIPE TO BE REMOVED
		WELDED JOINT
		GROOVED END JOINT
		FLANGED JOINT
		MECHANICAL JOINT
		BELL & SPIGOT JOINT (LEADED)
		HUB & SPIGOT JOINT (RUBBER GASKET)
		BALL JOINT
		FLANGED COUPLING ADAPTER
		FLEXIBLE COUPLING
		FLEXIBLE COUPLING WITH THRUST TIES
		BLIND FLANGE
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		LATERAL UP
		LATERAL DOWN
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		UNION
		CAP
		ANCHOR
		ELBOW, 90 DEGREE

DOUBLE LINE	SINGLE LINE	DESCRIPTION
		CROSS
		TEE
		ELBOW, 45 DEGREE
		LATERAL

MISCELLANEOUS PIPING SYMBOLS

	SIGHT GLASS
	INSULATED PIPE - SEE PIPING SCHEDULE FOR INSULATED SERVICES
	FLEXIBLE (ELASTOMER) PIPE CONNECTION
	GAUGE WITH COCK
	THERMOMETER
	ROTAMETER
	FILTER/REGULATOR/GAUGE SET

PIPING DESIGNATION



VALVE SYMBOLS

	GATE
	BUTTERFLY
	BALL
	PLUG
	SWING CHECK
	PRESSURE RELIEF
	AIR AND/OR VACUUM RELEASE
	GLOBE

FLOW STREAM LEGEND

---CC---	CHLORINE CONTACT
---CGV---	CHLORINE GAS VACUUM
---CS---	CHLORINE SOLUTION
---DP---	DRIP IRRIGATION SYSTEM
---DR---	DRAIN
---E---	ELECTRIC
---ES---	EFFLUENT SAMPLE
---EW---	EFFLUENT WATER
---FE---	FINAL EFFLUENT
---GFM---	GRINDER FORCE MAIN
---IS---	INFLUENT SAMPLE
---LPA---	LOW PRESSURE AIR
---ML---	MIXED LIQUOR
---MLR---	MIXED LIQUOR RETURN
---P---	PRESSURE SEWER
---PE---	POND EFFLUENT
---PSW---	PLANT SERVICE WATER
---RAS---	RETURN ACTIVATED SLUDGE
---RS---	RAW SEWAGE
---RW---	REUSE WATER
---S---	SANITARY SEWER
---SC---	SCUM
---SE---	SECONDARY EFFLUENT
---SS---	STORM SEWER
---TS---	THICKENED SLUDGE
---W---	POTABLE WELL WATER
---WAS---	WASTE ACTIVATED SLUDGE
---WS---	WASTE SLUDGE

MISCELLANEOUS



Legend:

	= sewer pump
	= sewer valve
	= sewer manhole
(M)	= measured
---	= pipe

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE: _____

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED JA
DRAWN JA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

730 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5821

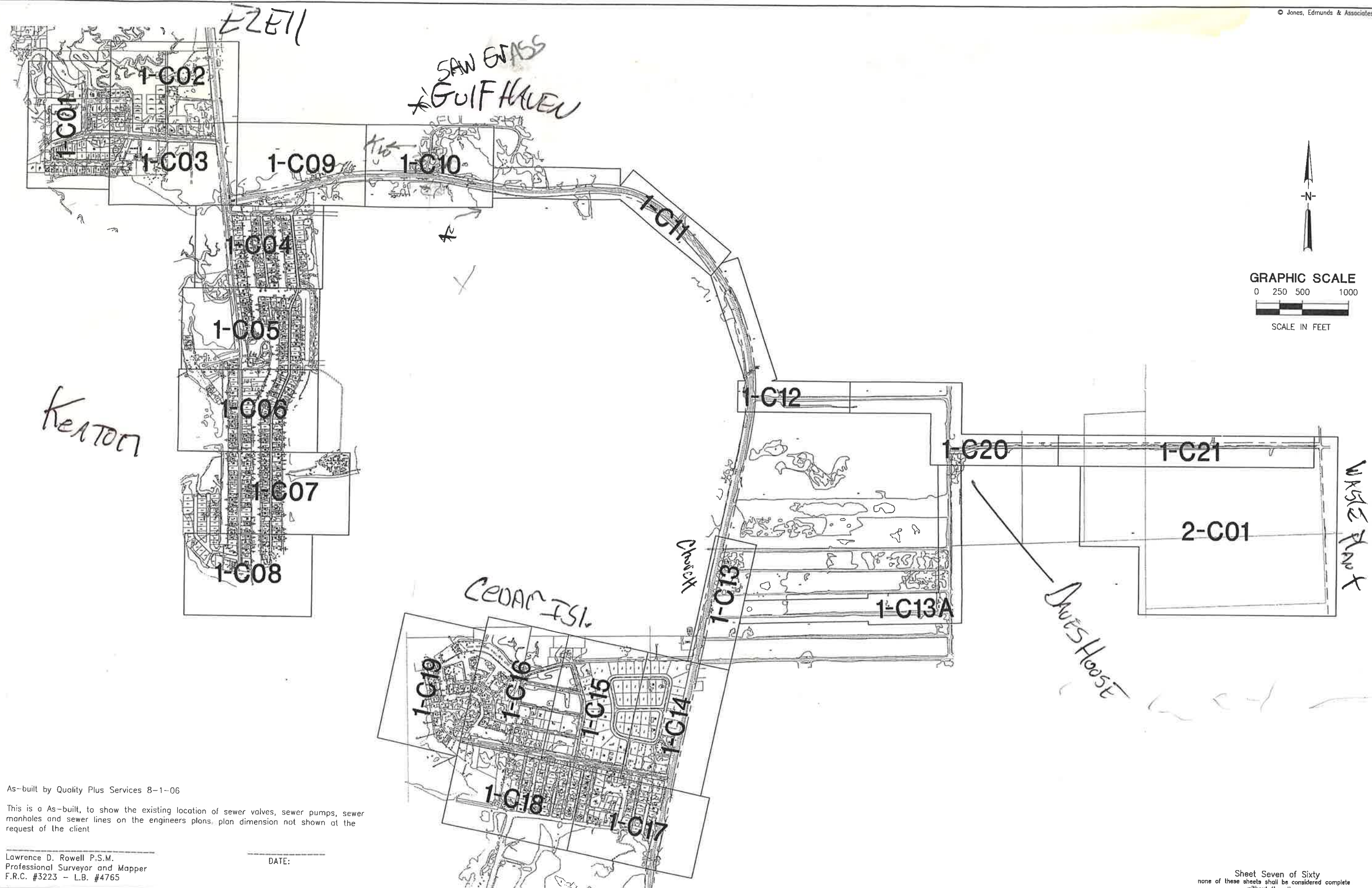
Jones Edmunds & Associates, Inc. JEA CONSULTING ENGINEERS AND SCIENTISTS

TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

LEGENDS

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE NONE	DWG. NO. 0-V06

Sheet Six of Sixty
none of these sheets shall be considered complete without the others



As-built by Quality Plus Services 8-1-06
 This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
 Professional Surveyor and Mapper
 F.R.C. #3223 - L.B. #4765

DATE: _____

Sheet Seven of Sixty
 none of these sheets shall be considered complete without the others

DESIGNED	TA			
DRAWN	TA			
CHECKED	JHH/CCB			
PROJECT ENGINEER	JOHN H. HORVATH			
LTR.	DATE	REVISIONS	BY	APPRD.

CONSULTING ENGINEERS AND SCIENTISTS
730 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5801

**TAYLOR COASTAL CENTRALIZED
 WASTEWATER SYSTEM PHASE I
 TAYLOR COUNTY, FLORIDA**

KEY MAP

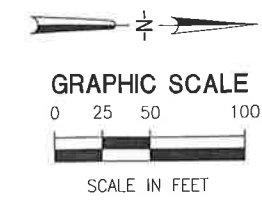
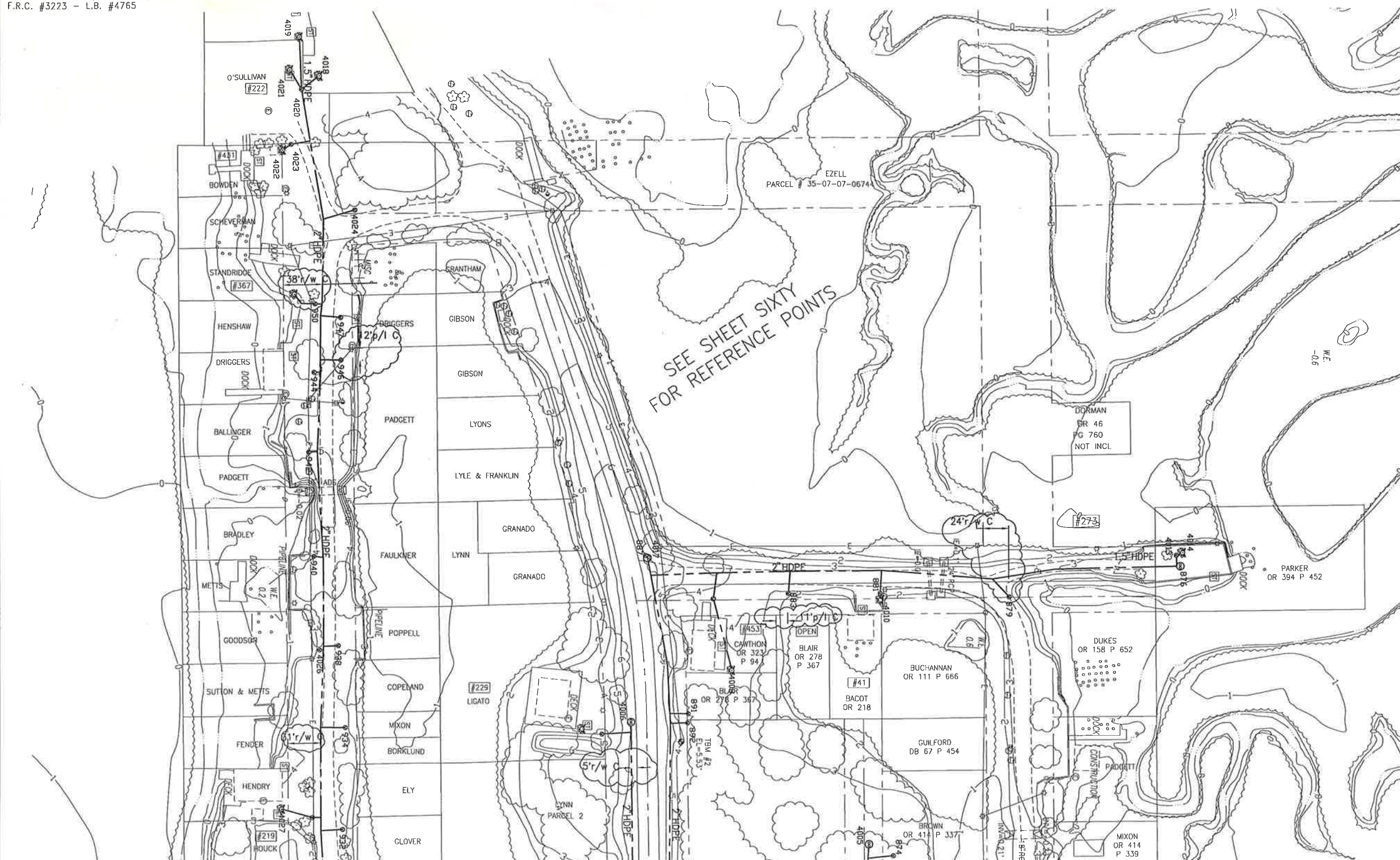
JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=500'	DWG. NO. 0-V07

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:



- Legend:
- = sewer pump
 - = sewer valve
 - = sewer manhole
 - (M) = measured
 - = pipe
 - (C) = construction plans

MATCH LINE (SEE DWG 1-C03)

MATCH LINE (SEE DWG 1-C02)

Sheet Eight of Sixty
none of these sheets shall be considered complete without the others

03/30/04 14:46 TA 20450001-1-C01.dwg

LTR.	DATE	REVISIONS	BY	APPR.

DESIGNED TA
DRAWN TA
CHECKED JHH/CBB
JOHN H. HORVATH
PROJECT ENGINEER

700 Northeast Waldo Road/Cocoa, Florida 32941 / (321) 377-5531
 CONSULTING ENGINEERS AND SCIENTISTS

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C01

As-built by Quality Plus Services 8-1-06

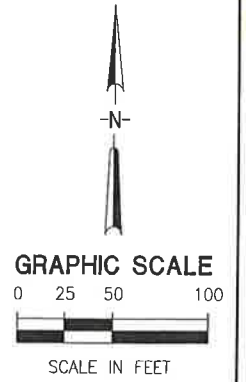
© Jones, Edmunds & Associates, Inc. 2234

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

SECTION 26, T7S, R7E
SECTION 35, T7S, R7E

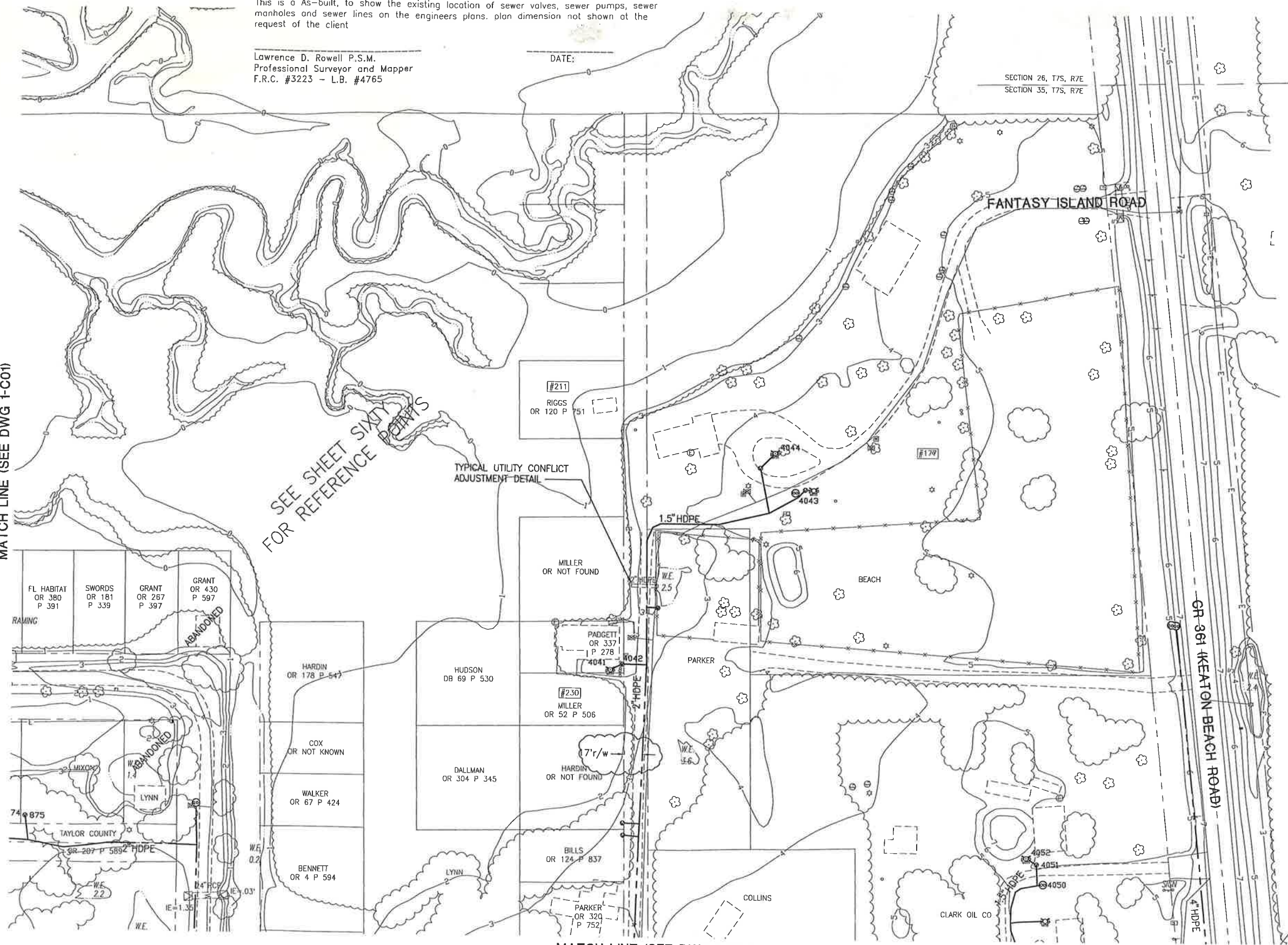


MATCH LINE (SEE DWG 1-C01)

SEE SHEET SIX FOR REFERENCE

TYPICAL UTILITY CONFLICT ADJUSTMENT-DETAIL

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe
 - = construction plans



MATCH LINE (SEE DWG 1-C03)

MATCH LINE "D"

Sheet Nine of Sixty
none of these sheets shall be considered complete without the others

07/09/03 12:36 TA 20450001-1-C02.dwg

DESIGNED	TWO
DRAWN	JHH
CHECKED	JHH/CCB
PROJECT ENGINEER	JOHN H. HORVATH
LTR.	DATE
REVISIONS	BY
APPROVED	

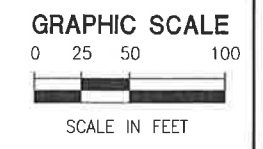
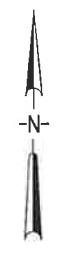
CONSULTING ENGINEERS AND SCIENTISTS

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

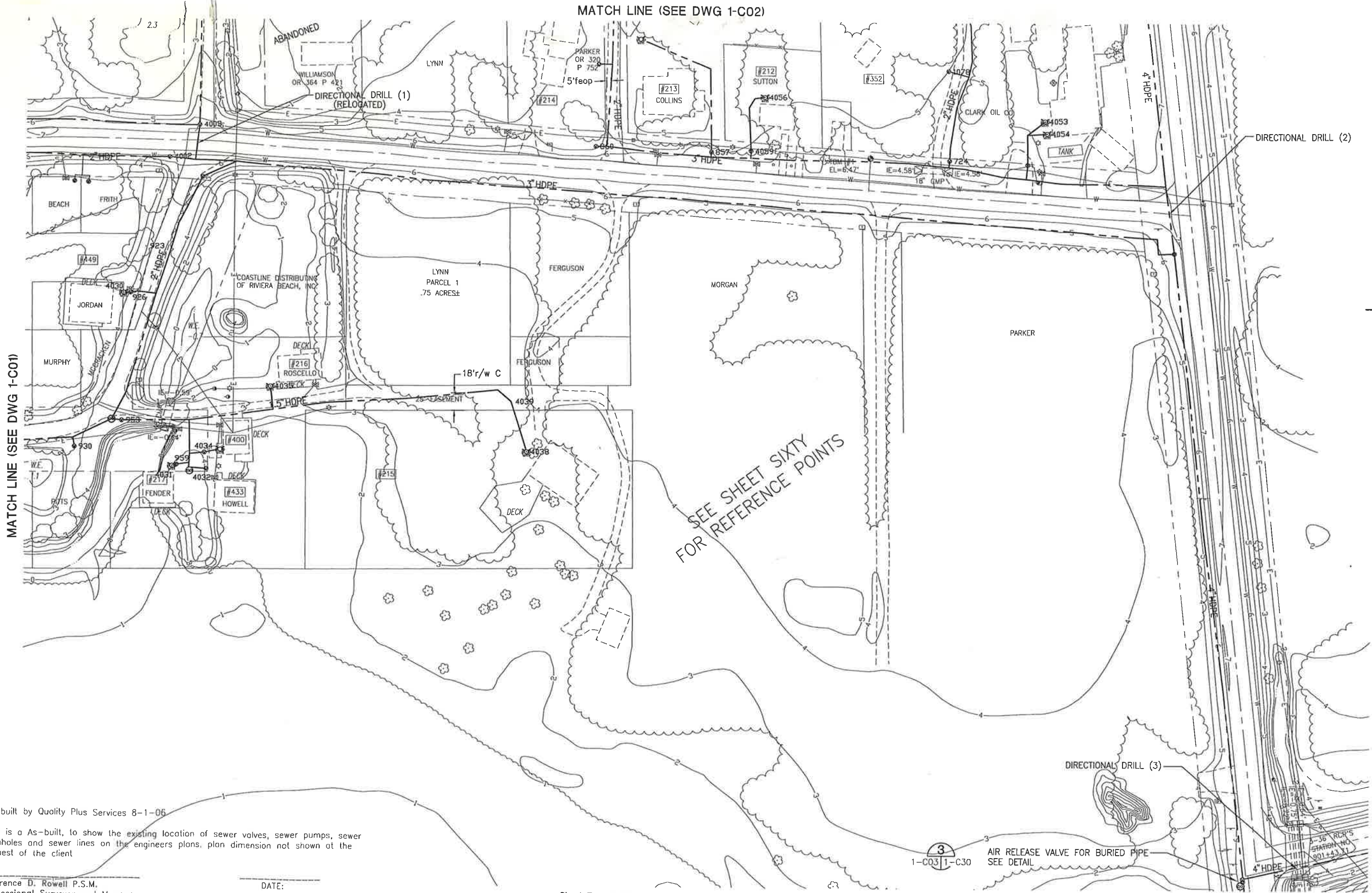
**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE	PROJECT NO.
JOHN H. HORVATH	APR 2004	20450-001-03
P.E. # 53532	SCALE	DWG. NO.
	1" = 50'	1-C02

MATCH LINE (SEE DWG 1-C02)



- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe
 - = construction plans



SEE SHEET SIXTY
FOR REFERENCE POINTS

MATCH LINE (SEE DWG 1-C01)

MATCH LINE (SEE DWG 1-C09)

MATCH LINE (SEE DWG 1-C04)

As-built by Quality Plus Services 8-1-06
This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

Sheet Ten of Sixty
none of these sheets shall be considered complete
without the others

07/09/03 13:00 TA 20450001-1-C03.dwg

LTR.	DATE	REVISIONS	BY	APPRO.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

720 Northeast Waldo Road/Cocoa, Florida 32941 / (321) 377-5621



TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN

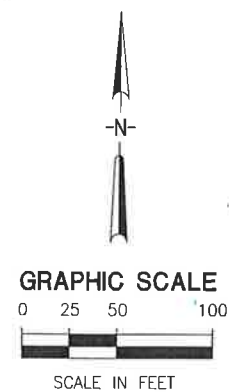
JEA CERTIFICATE OF AUTHORIZATION #1841
APPROVED FOR JEA BY
JOHN H. HORVATH
P.E. # 47093

DATE
APR 2004
SCALE
1"=50'
PROJECT NO.
20450-001-03
DWG. NO.
1-C03

MATCH LINE (SEE DWG 1-C03)

MATCH LINE (SEE DWG 1-C09)

WASTEWATER TRANSFER
PUMP STATION 2
SEE ENLARGEMENT 1-C04 1-C24



- Legend:
- = sewer pump
 - = sewer valve
 - = sewer manhole
 - = measured pipe

SEE SHEET SIXTY
FOR REFERENCE POINTS

MATCH LINE (SEE DWG 1-C05)

Sheet Eleven of Sixty
none of these sheets shall be considered complete
without the others

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

03/31/04 10:34 TA 20450001-1-C04.dwg

LT.	DATE	REVISIONS	BY	APPRD.

Jones Edmunds & Associates, Inc. JEA
 CONSULTING ENGINEERS AND SCIENTISTS
730 Northeast Waldo Road/Culverville, Florida 32841 / (352) 377-0021

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

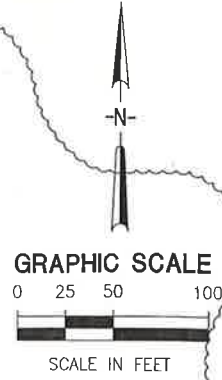
**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C04

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

MATCH LINE (SEE DWG 1-C04)



- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe

SEE SHEET SIXTY
FOR REFERENCE POINTS

MATCH LINE (SEE DWG 1-C06)

Sheet Twelve of Sixty
none of these sheets shall be considered complete
without the others

01/05/04 16:00 ANS 20450001-1-C05.dwg

DESIGNED	TA		
DRAWN	TA		
CHECKED	JHH/CCB		
PROJECT ENGINEER	JOHN H. HORVATH		
DATE	17NOV06	SCS	FLG
REVISIONS	ADD PUMP (LOWER LT CORNER THIS PAGE)		
BY			
APPRD.			

CONSULTING ENGINEERS AND SCIENTISTS
 700 Northwest Naldo Road/Coltsville, Florida 32641 / (352) 377-5821

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**

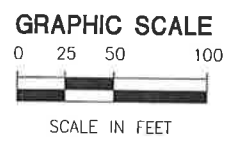
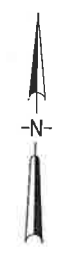
JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C05

MATCH LINE (SEE DWG 1-C05)



SEE SHEET SIXTY FOR REFERENCE POINTS

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe



As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

MATCH LINE (SEE DWG 1-C07)

Sheet Thirteen of Sixty
none of these sheets shall be considered complete without the others

03/30/04 14:32 TA 20450001-1-C06.dwg

DESIGNED	TA		
DRAWN	TA		
CHECKED	JHH/CCB		
PROJECT ENGINEER	JOHN H. HORVATH		
DATE		REVISIONS	
		BY	APPRD.

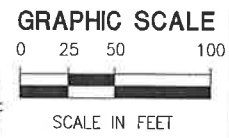
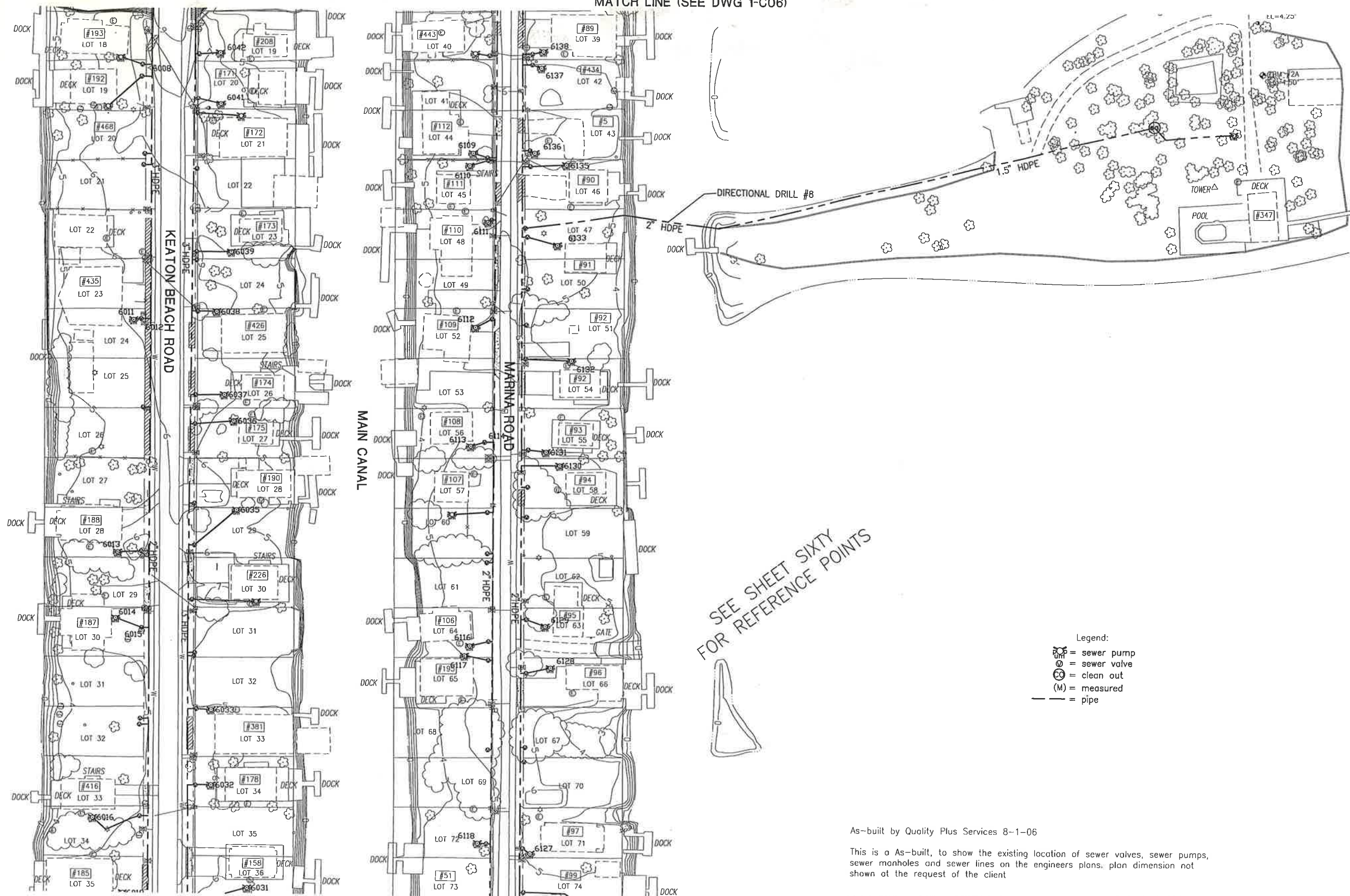
CONSULTING ENGINEERS AND SCIENTISTS
 730 Northeast Waldo Road/Galveston, Florida 32841 / (504) 377-6641

**TAYLOR COASTAL CENTRALIZED
 WASTEWATER SYSTEM PHASE I
 TAYLOR COUNTY, FLORIDA**

**WASTEWATER COLLECTION
 SYSTEM LAYOUT PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C06

MATCH LINE (SEE DWG 1-C06)



SEE SHEET SIXTY FOR REFERENCE POINTS

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - (M) = measured
 - = pipe

MATCH LINE (SEE DWG 1-C08)

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

Sheet Fourteen of Sixty
none of these sheets shall be considered complete without the others

12/08/03 11:05 ABG 20450001-1-c07.dwg

LTR.	DATE	REVISIONS	BY	APPRO.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

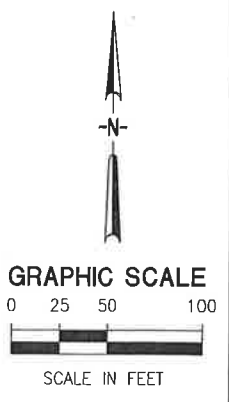
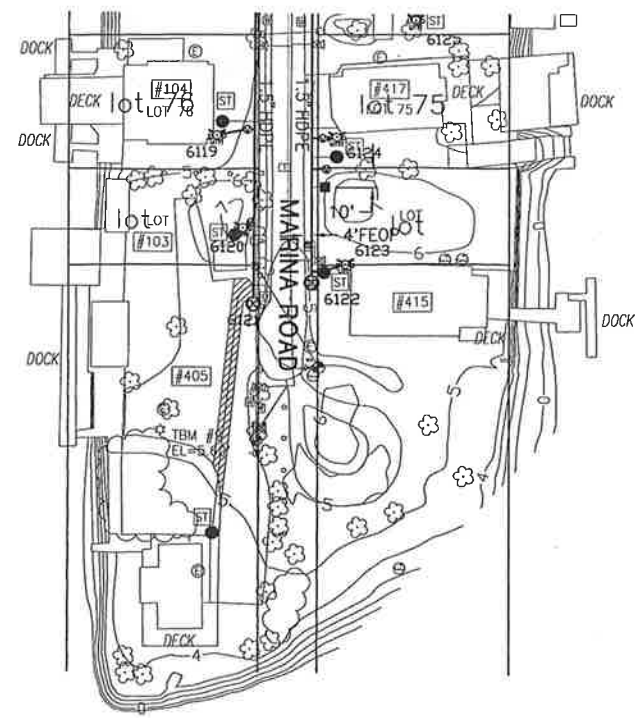
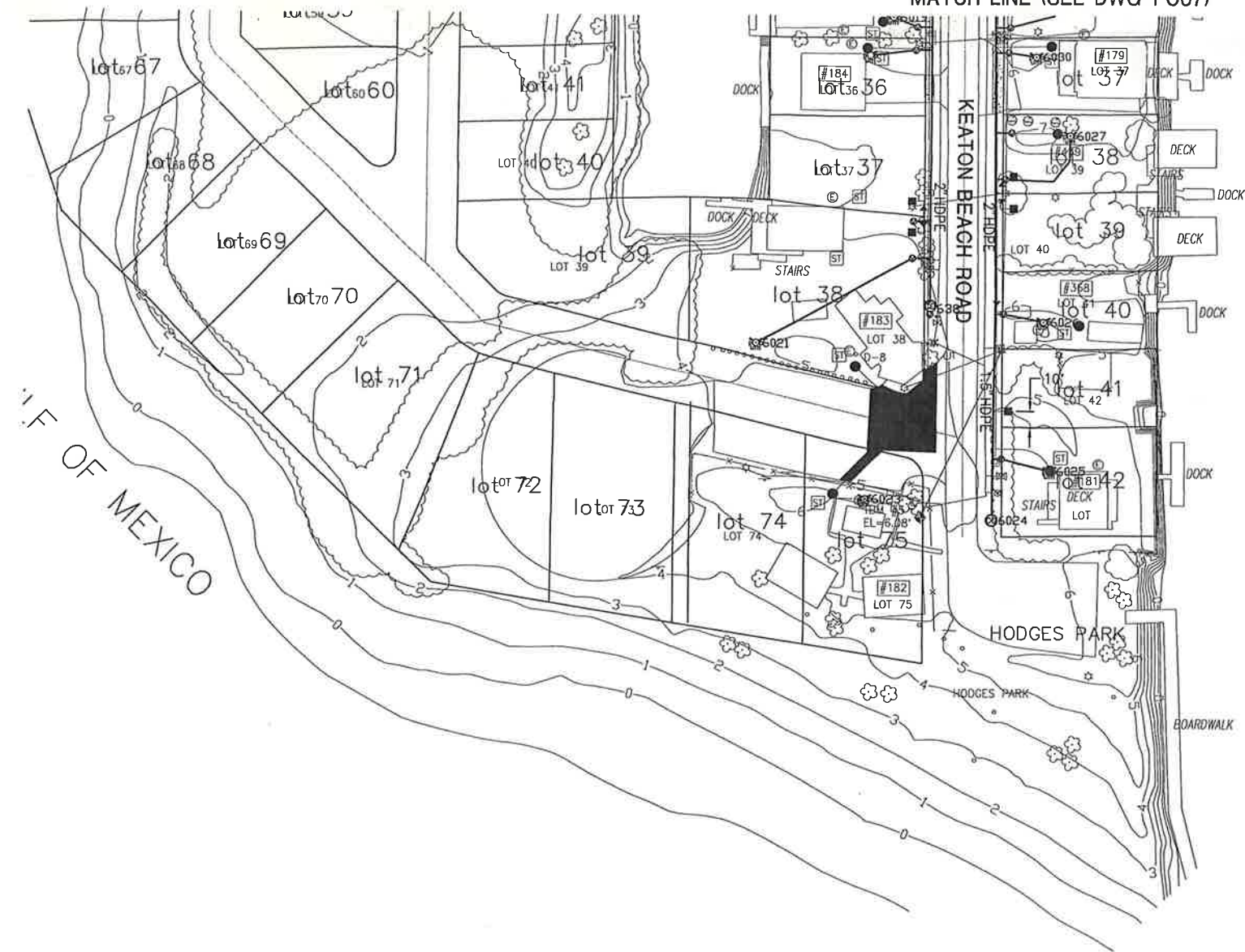
CONSULTING ENGINEERS AND SCIENTISTS
 730 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5621

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C07

MATCH LINE (SEE DWG 1-C07)



SEE SHEET SIXTY
FOR REFERENCE POINTS
GULF OF MEXICO

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - (M) = measured
 - = pipe

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

Sheet Fifteen of Sixty
none of these sheets shall be considered complete
without the others

12/08/03 11:05 ABC 20450001-1-c08.dwg

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

CONSULTING ENGINEERS AND SCIENTISTS
700 Northeast Waldo Road/Cocoa, Florida 32901 / (321) 377-9921

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**

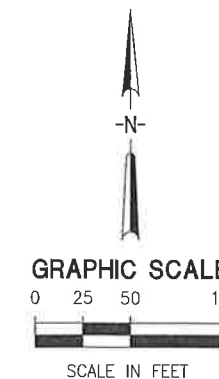
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JOHN H. HORVATH P.E. # 47093	SCALE 1" = 50'	DWG. NO. 1-C08

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE: _____

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - (M) = measured
 - 6" HDPE

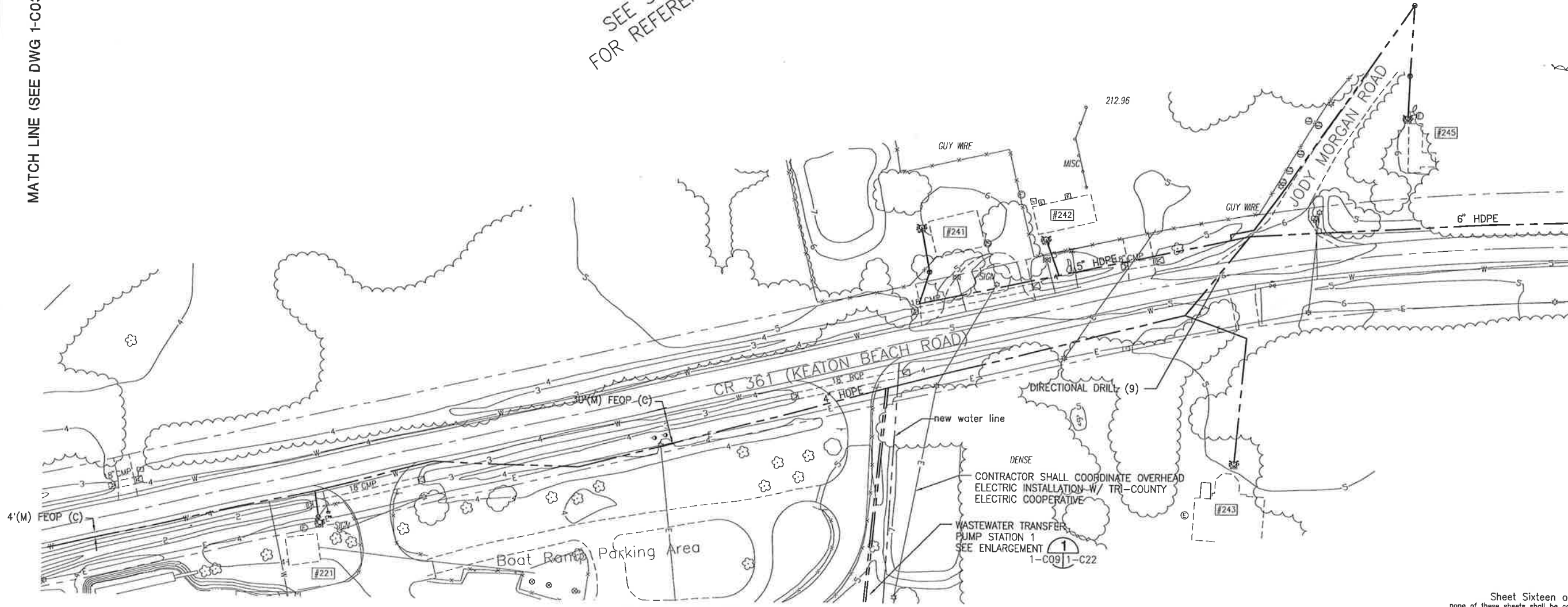


MACHILASKI

SEE SHEET SIXTY
FOR REFERENCE POINTS

MATCH LINE (SEE DWG 1-C03)

MATCH LINE (SEE DWG 1-C10)



MATCH LINE (SEE DWG 1-C04)

Sheet Sixteen of Sixty
none of these sheets shall be considered complete without the others

01/05/04 10:52 ANS 20450001-1-c09.dwg

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

750 Northeast Naldo Road/Culverville, Florida 32641 / (352) 377-5821

Jones Edmunds & Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

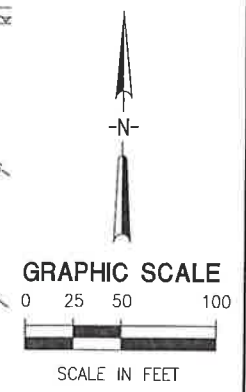
WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1" = 50'	DWG. NO. 1-C09

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

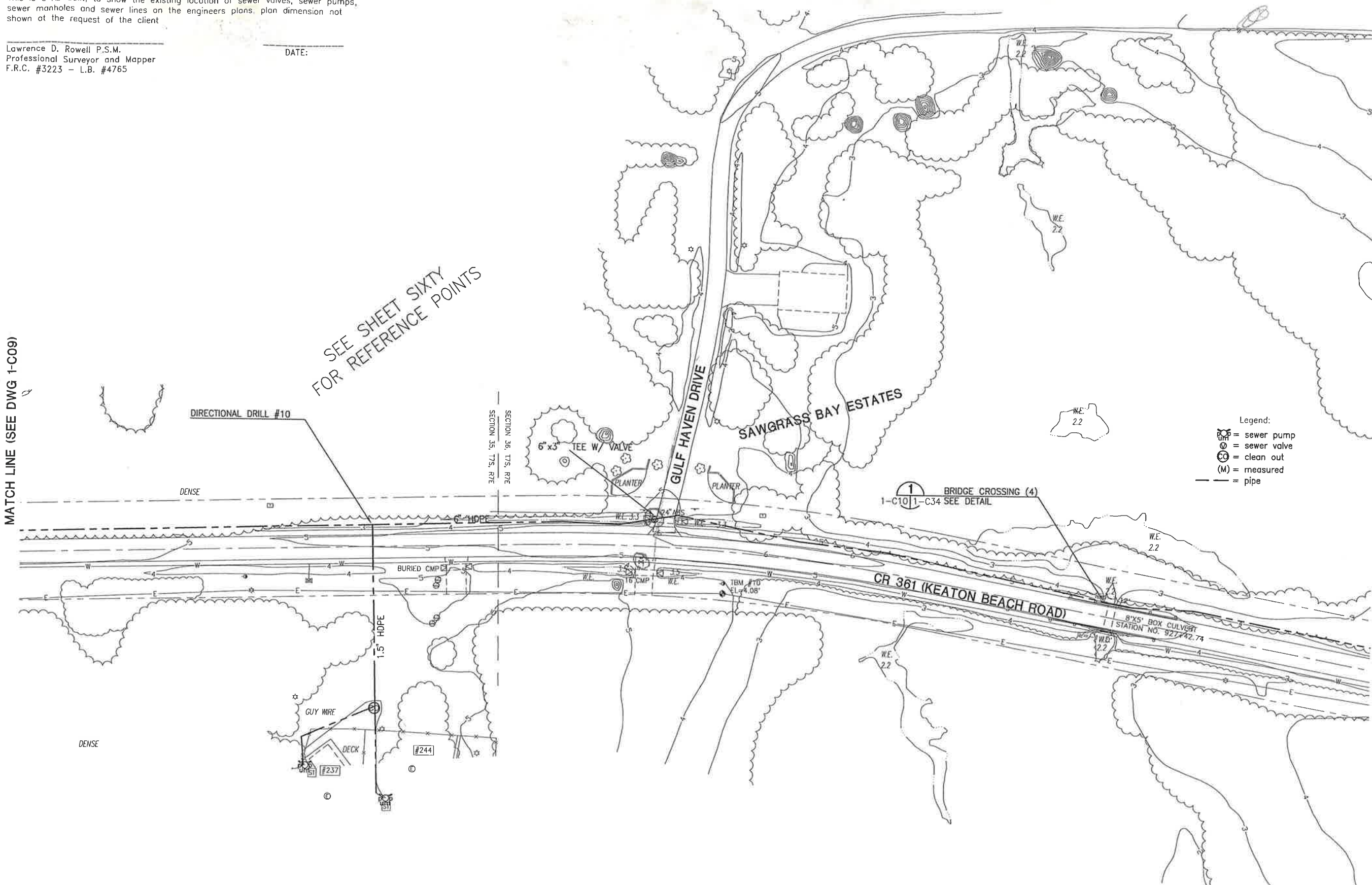
Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:



MATCH LINE (SEE DWG 1-C09)

MATCH LINE (SEE DWG 1-C11)



SEE SHEET SIXTY
FOR REFERENCE POINTS

Sheet Seventeen of Sixty
none of these sheets shall be considered complete
without the others

01/02/04 13:24 ANS 20450001-1-ct10.dwg

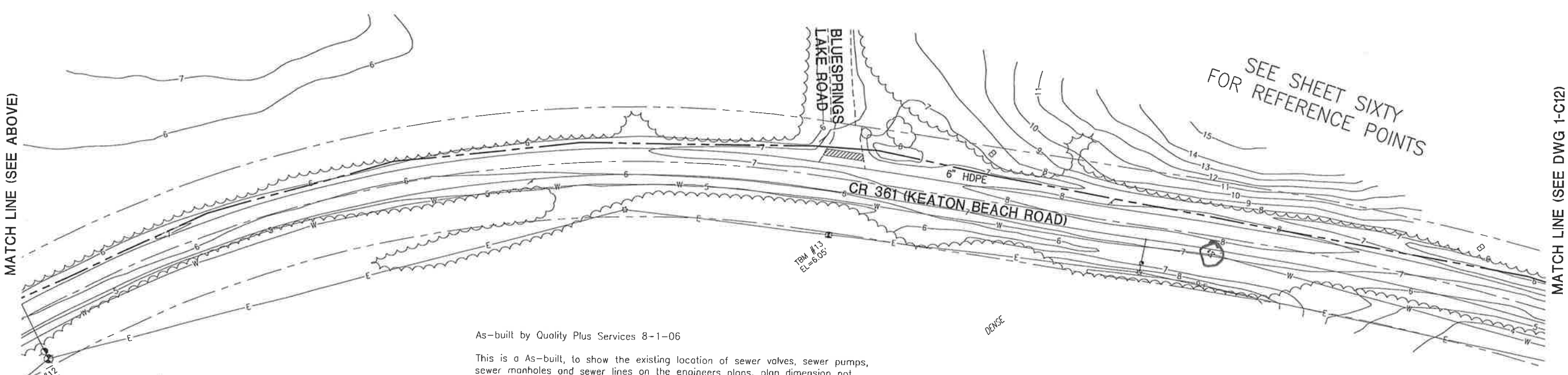
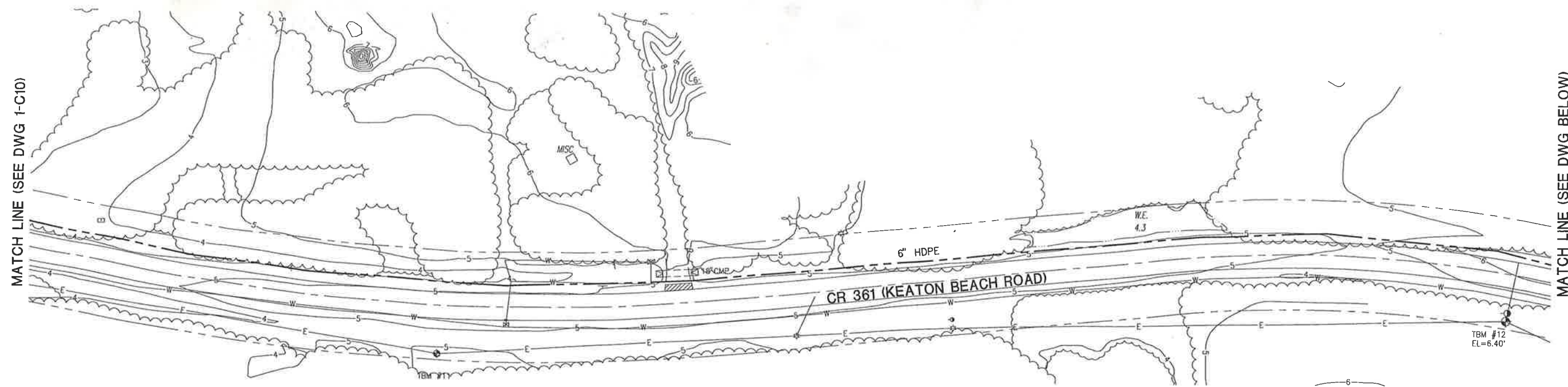
DESIGNED	TWO
DRAWN	BROWN
CHECKED	JWB/CCB
ENGINEER	ROBERT W. ROWELL
PROJECT ENGINEER	

JEA CONSULTING ENGINEERS AND SCIENTISTS
 730 Northeast Walden Road/Gainesville, Florida 32641 / (352) 377-9941

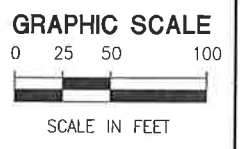
**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY:	DATE APR 2004	PROJECT NO. 20450-001-03
ENGINEER P.E. # 02093	SCALE 1"=50'	DWG. NO. 1-C10



- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe



As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

Sheet Eighteen of Fifty Sixty
none of these sheets shall be considered complete without the others

07/09/03 14:29 TA 20450001-1-C11.dwg

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA
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CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

730 Northeast Waldo Road/Cainesville, Florida 32641 / (352) 377-5821

Jones Edmunds & Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

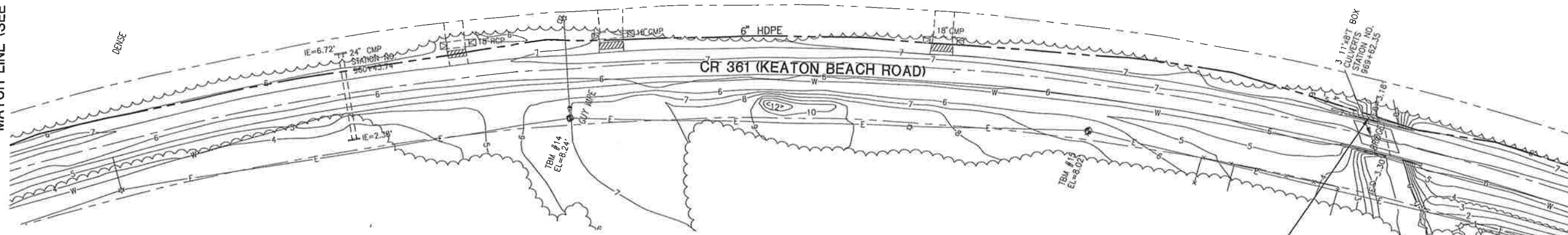
TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN

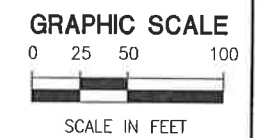
JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C11

MATCH LINE (SEE DWG 1-C11)

MATCH LINE (SEE DWG BELOW)

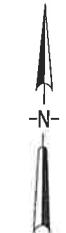
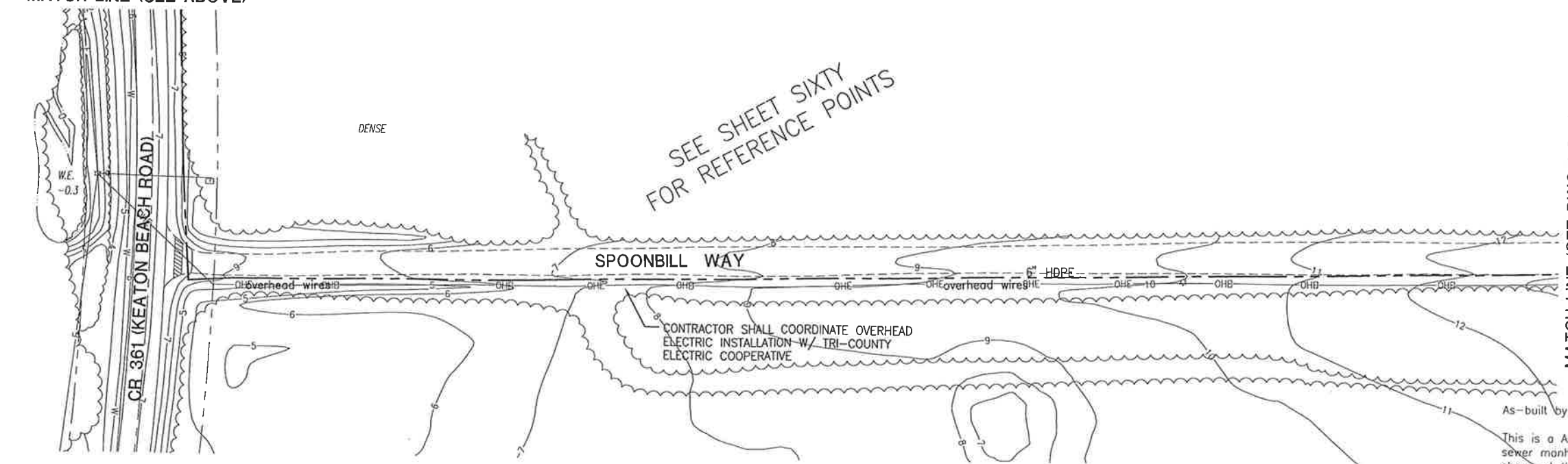


BRIDGE CROSSING (5)
1-C12 | 1-C34 SEE DETAIL



MATCH LINE (SEE ABOVE)

SEE SHEET SIXTY FOR REFERENCE POINTS



- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Sheet Nineteen of Sixty
none of these sheets shall be considered complete without the others

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

01/02/04 13:26 ANS 20450001-1-cl12.dwg

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

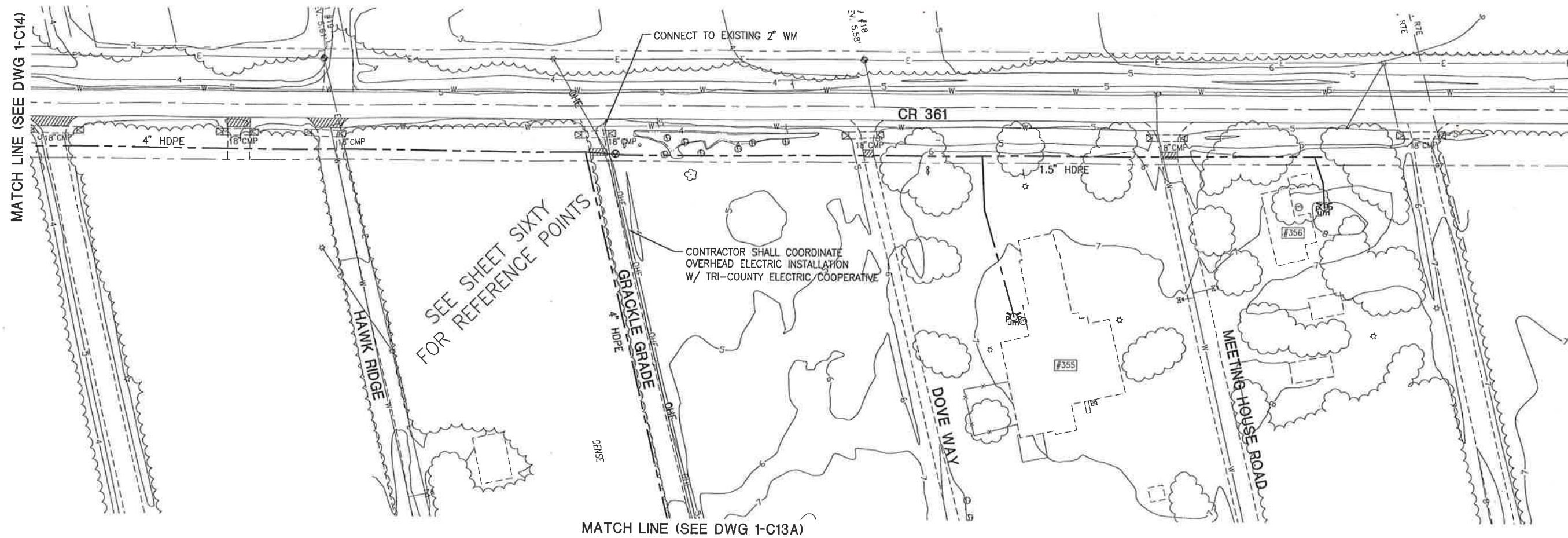
Jones Edmunds & Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS
730 Northeast Wabla Road/Cabersville, Florida 32841 / (561) 317-5521

TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

WASTEWATER COLLECTION SYSTEM LAYOUT PLAN

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C12

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe



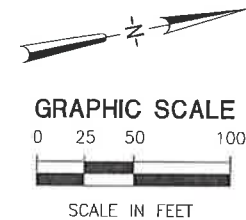
As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

Sheet Twenty of Sixty
none of these sheets shall be considered complete
without the others



01/05/04 13:57 ANS 20450001-1-c13.dwg

LTR.	DATE	REVISIONS	BY	APPRD.

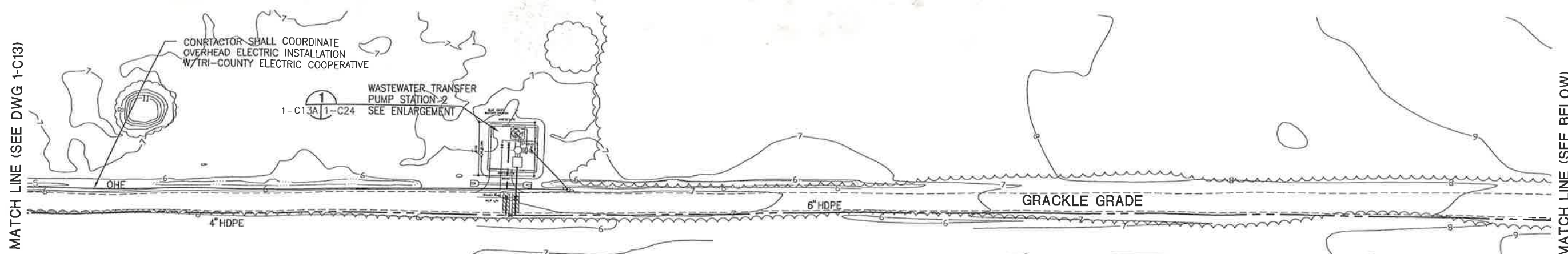
DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

Jones Edmunds & Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS
700 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5621

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

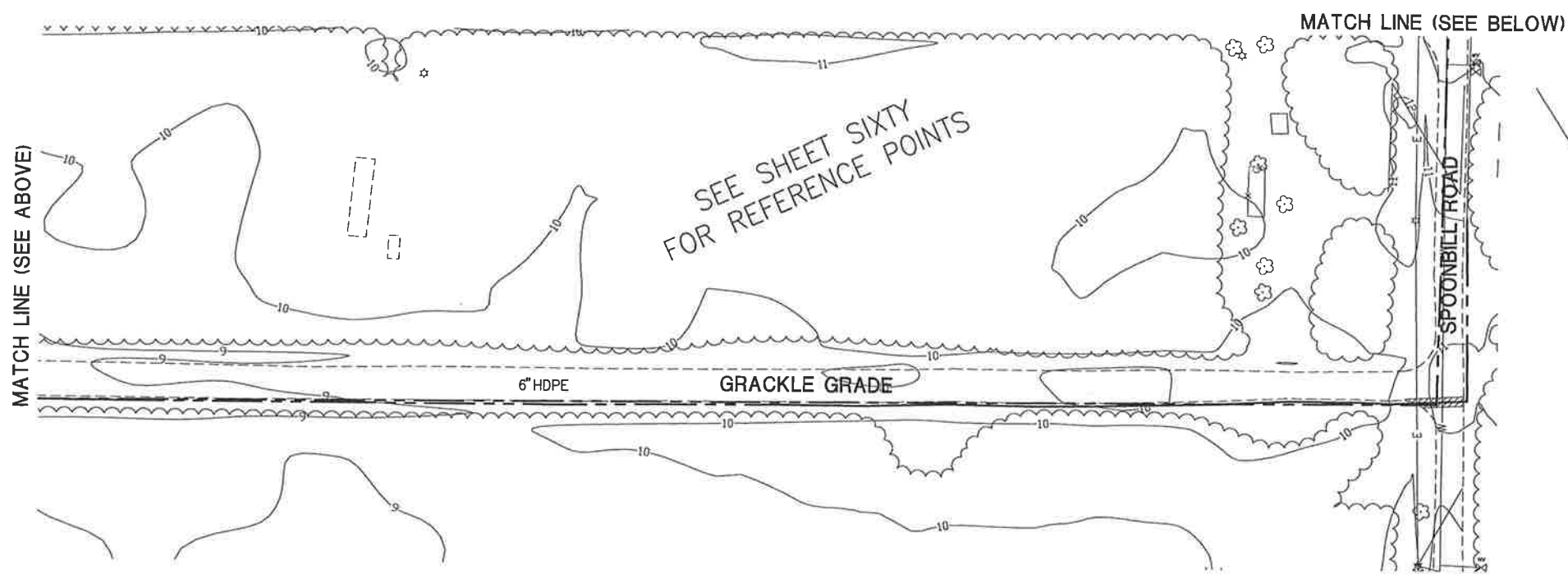
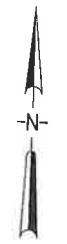
**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C13



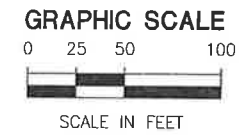
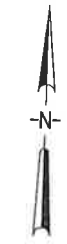
MATCH LINE (SEE DWG 1-C13)

MATCH LINE (SEE BELOW)

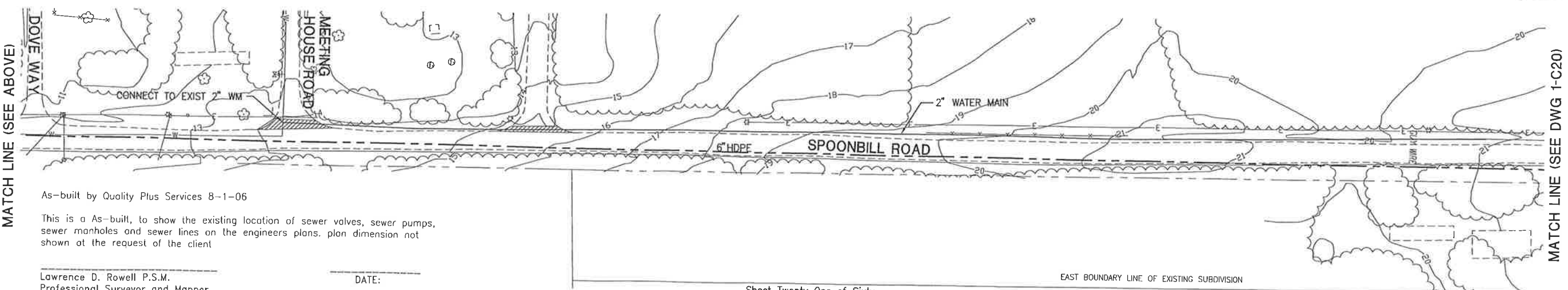


MATCH LINE (SEE ABOVE)

MATCH LINE (SEE BELOW)

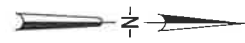


- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe



MATCH LINE (SEE ABOVE)

MATCH LINE (SEE DWG 1-C20)



As-built by Quality Plus Services 8-1-06
This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

Sheet Twenty One of Sixty
none of these sheets shall be considered complete without the others

01/05/04 14:03 ANS 20450001-1-c13a.dwg

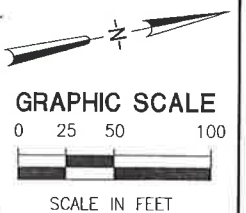
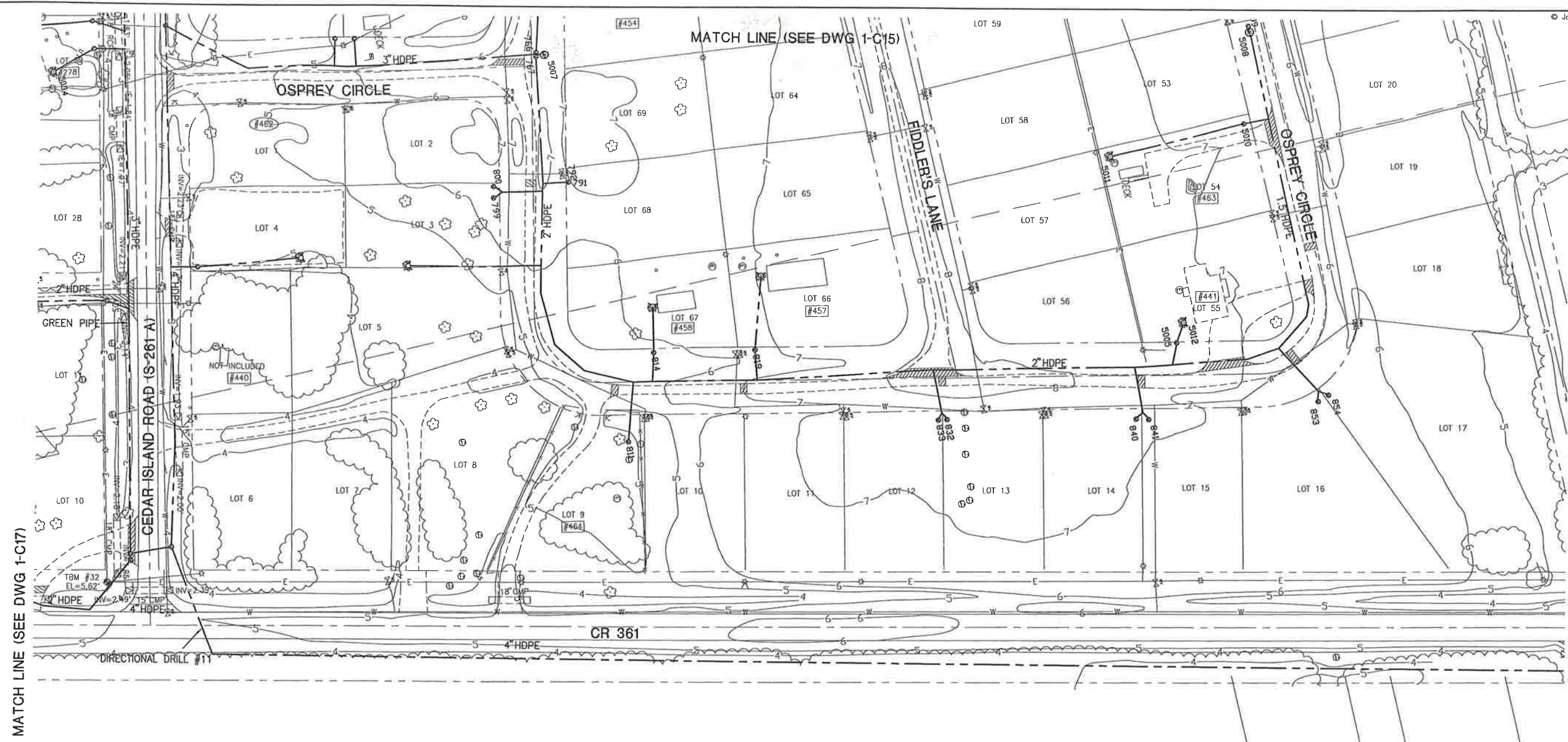
LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TWO
DRAWN BROWN
CHECKED JWB/CCB
PROJECT ENGINEER

TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
SCALE 1" = 50'	DWG. NO. 1-C13A	



MATCH LINE (SEE DWG 1-C17)

MATCH LINE (SEE DWG 1-C13)

SEE SHEET SIXTY
FOR REFERENCE POINTS

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE: _____

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

730 Northeast Naldo Road, Ocala, Florida 32661 / (352) 377-5821
 CONSULTING ENGINEERS AND SCIENTISTS

TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN

JEA CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED FOR JEA BY	APR 2004	20450-001-03
JOHN H. HORVATH	SCALE	DWG. NO.
P.E. # 47093	1"=50'	1-C14

Sheet Twenty Two of Sixty
none of these sheets shall be considered complete
without the others.

03/30/04 14:25 TA 20450001-1-cl4.dwg

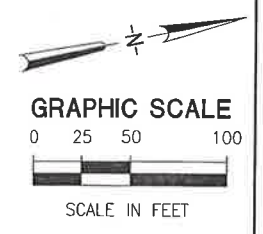
MATCH LINE (SEE DWG 1-C16)

MATCH LINE (SEE DWG 1-C18)

MATCH LINE (SEE DWG 1-C17)

MATCH LINE (SEE DWG 1-C14)

SEE SHEET SIXTY
FOR REFERENCE POINTS



- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe



As-built by Quality Plus Services 8-1-06
 LOT
 This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Sheet Twenty Three of Sixty
 none of these sheets shall be considered complete
 without the others

Lawrence D. Rowell P.S.M.
 Professional Surveyor and Mapper
 F.R.C. #3223 - L.B. #4765

DATE:

01/05/04 15:21 ANS 20450001-1-cl15.dwg

DESIGNED	TA
DRAWN	TA
CHECKED	JHH/CCB
PROJECT ENGINEER	JOHN H. HORVATH
LTR.	DATE
REVISIONS	BY
APPRD.	

CONSULTING ENGINEERS AND SCIENTISTS

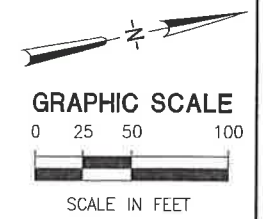
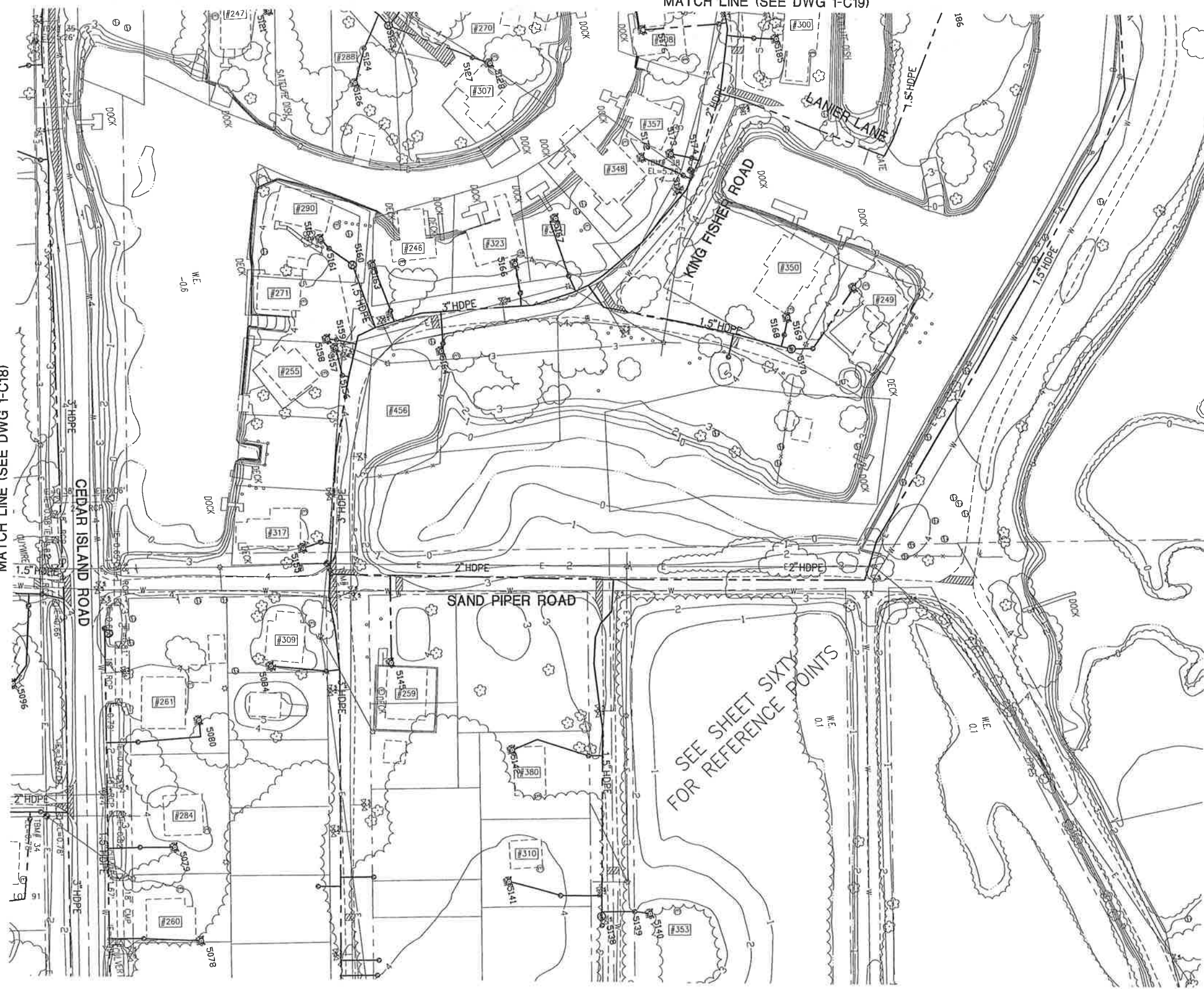
**TAYLOR COASTAL CENTRALIZED
 WASTEWATER SYSTEM PHASE I
 TAYLOR COUNTY, FLORIDA**

**WASTEWATER COLLECTION
 SYSTEM LAYOUT PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C15

MATCH LINE (SEE DWG 1-C19)

MATCH LINE (SEE DWG 1-C18)



- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe

SEE SHEET SIXTY
FOR REFERENCE POINTS

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

MATCH LINE (SEE DWG 1-C15)

Sheet Twenty Four of Sixty
none of these sheets shall be considered complete
without the others

01/05/04 15:23 ANS_20450001-1-c16.dwg

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

JEA CONSULTING ENGINEERS AND SCIENTISTS
700 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5621

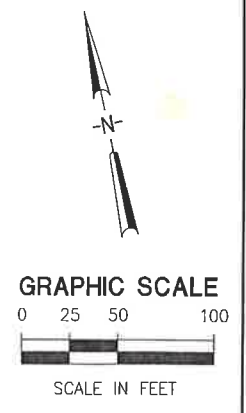
**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C16

MATCH LINE (SEE DWG 1-C15)

MATCH LINE (SEE DWG 1-C14)



- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe

SEE SHEET SIXTY
FOR REFERENCE POINTS

Sheet Twenty Five of Sixty
none of these sheets shall be considered complete
without the others

As-built by Quality Plus Services 8-1-06

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Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

12/08/03 14:30 ABG 20450001-1-ct17.dwg

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

CONSULTING ENGINEERS AND SCIENTISTS

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

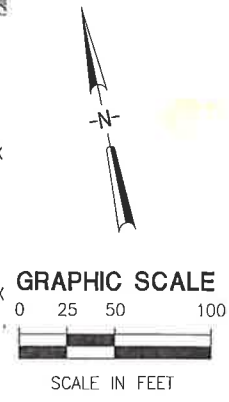
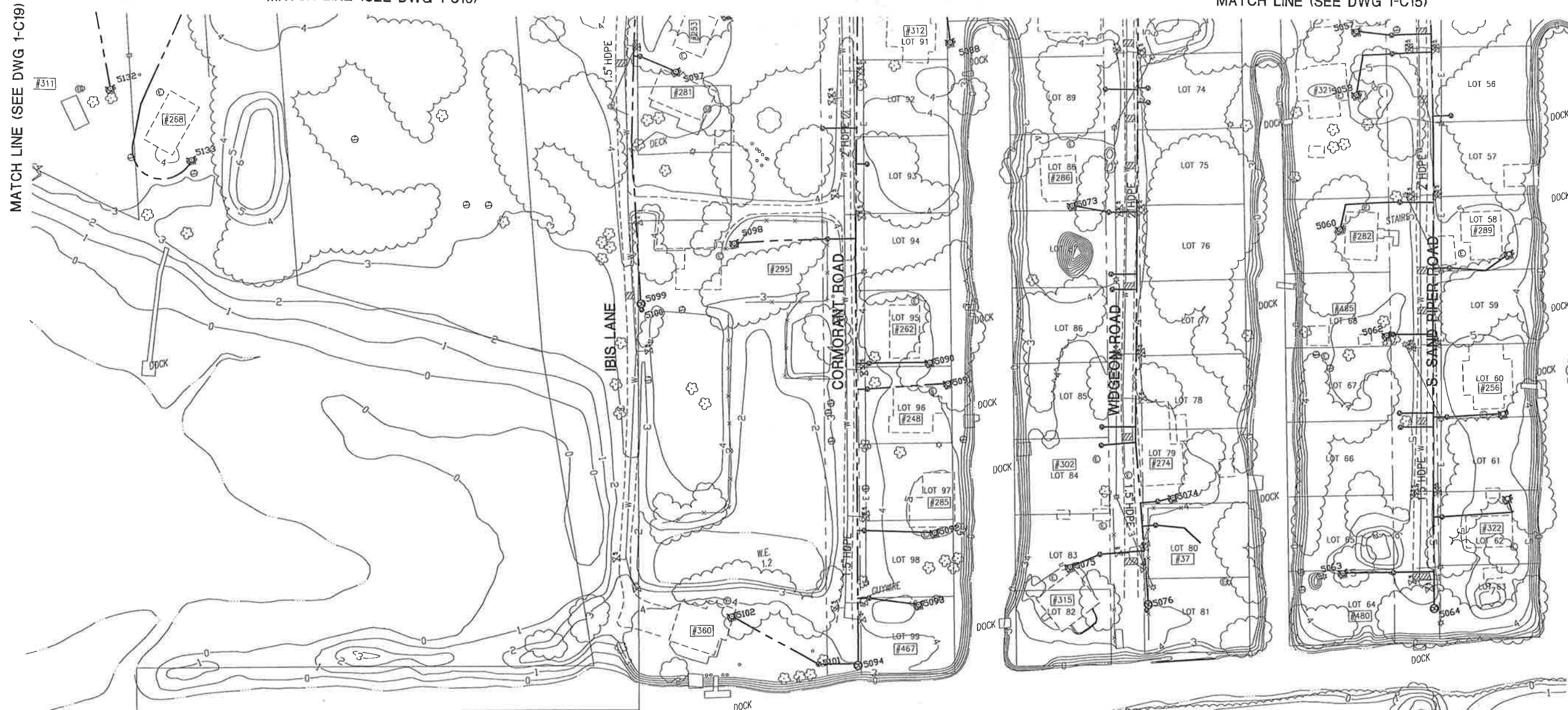
**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C17

MATCH LINE (SEE DWG 1-C16)

MATCH LINE (SEE DWG 1-C15)

MATCH LINE (SEE DWG 1-C19)



MATCH LINE (SEE DWG 1-C17)

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe

SEE SHEET SIXTY
FOR REFERENCE POINTS

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE: _____

Sheet Twenty Six of Sixty
none of these sheets shall be considered complete
without the others

12/08/03 14:44 ABC 20450001-1-c18.dwg

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

CONSULTING ENGINEERS AND SCIENTISTS
 700 Northeast Waldo Road/Galacerville, Florida 32041 / (352) 377-5521

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN**






JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1"=50'	DWG. NO. 1-C18

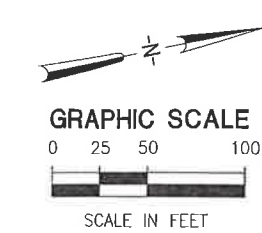
This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

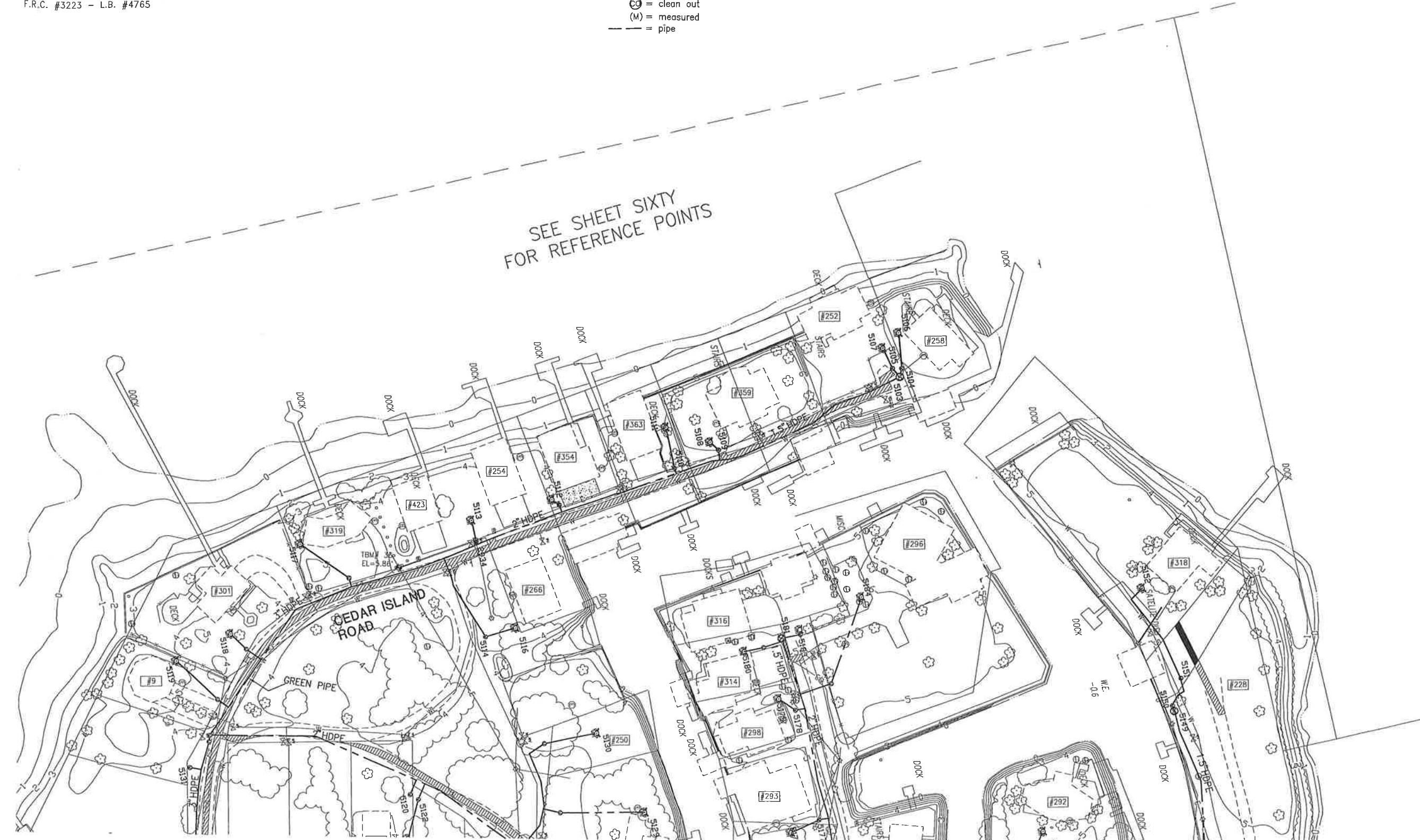
DATE:

Legend:

-  = sewer pump
-  = sewer valve
-  = clean out
-  = measured
-  = pipe



SEE SHEET SIXTY
FOR REFERENCE POINTS



MATCH LINE (SEE DWG 1-C16)

Sheet Twenty Seven of Sixty
none of these sheets shall be considered complete
without the others

12/08/03 14:47 ABC 20450001-1-c19.dwg

LTR.	DATE	REVISIONS	BY	APPRO.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

Jones Edmunds & Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS
730 Northeast Waldo Road/Cocoa, Florida 32941 / (321) 577-5621

TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

WASTEWATER COLLECTION
SYSTEM LAYOUT PLAN

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY JOHN H. HORVATH P.E. # 47093	DATE APR 2004	PROJECT NO. 20450-001-03
SCALE 1"=50'	DWG. NO. 1-C19	

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

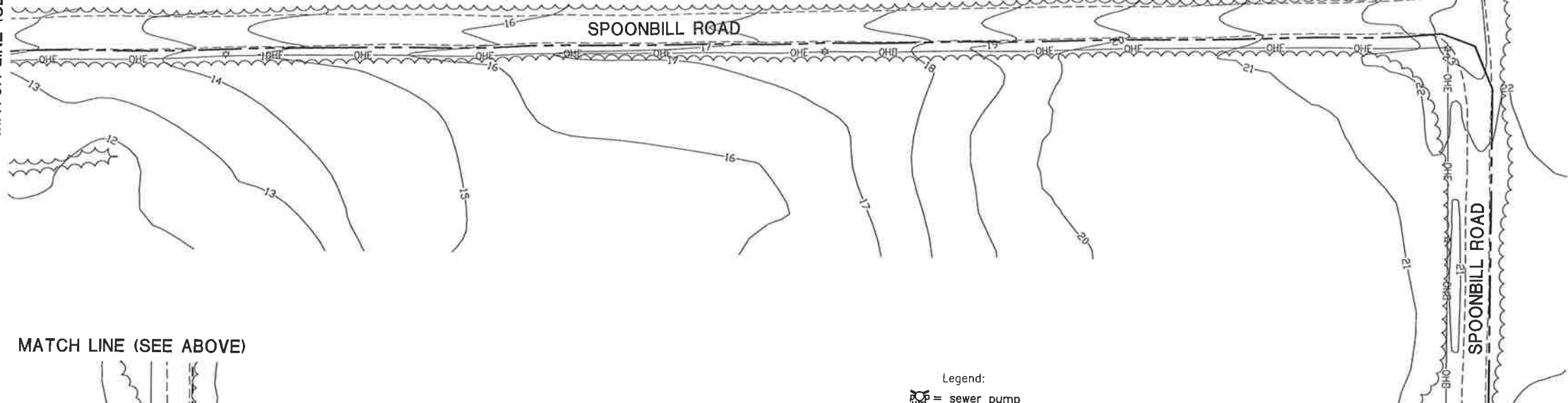
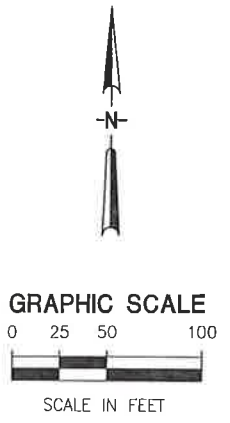
DATE:

SEE SHEET SIXTY
FOR REFERENCE POINTS

MATCH LINE (SEE DWG 1-C12)

DENSE

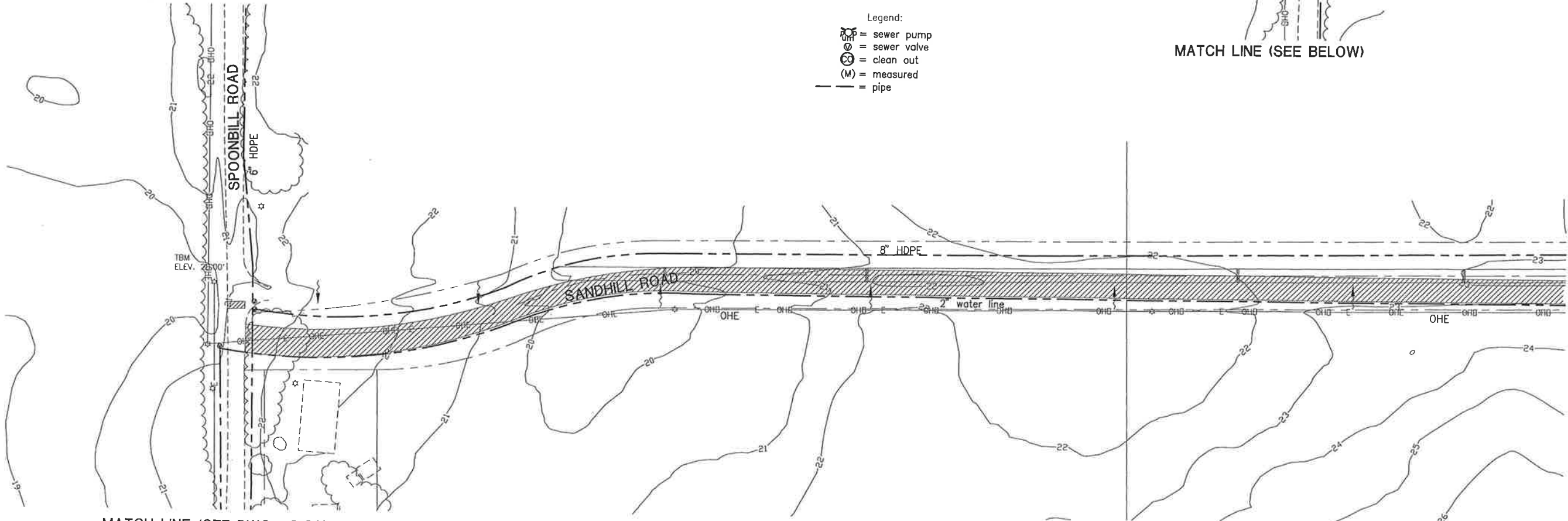
DENSE



MATCH LINE (SEE ABOVE)

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe

MATCH LINE (SEE BELOW)



MATCH LINE (SEE DWG 1-C13A)

MATCH LINE (SEE DWG 1-C21)

Sheet Twenty Eight of Sixty
none of these sheets shall be considered complete
without the others

12/08/03 15:14 ABC_20450001-1-c20.dwg

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA
DRAWN TA
CHECKED JHH/CCB
JOHN H. HORVATH
PROJECT ENGINEER

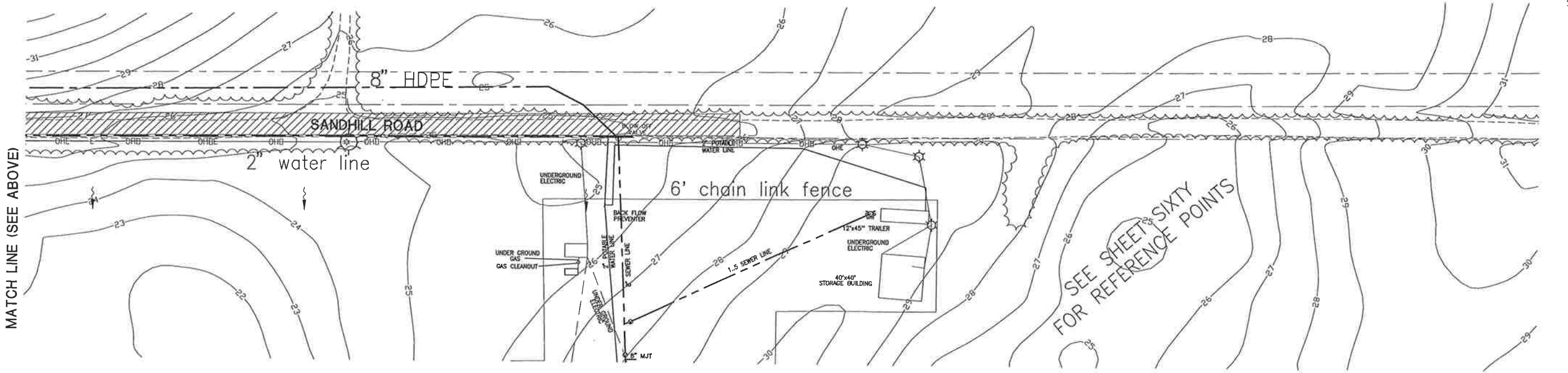
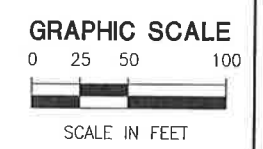
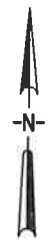
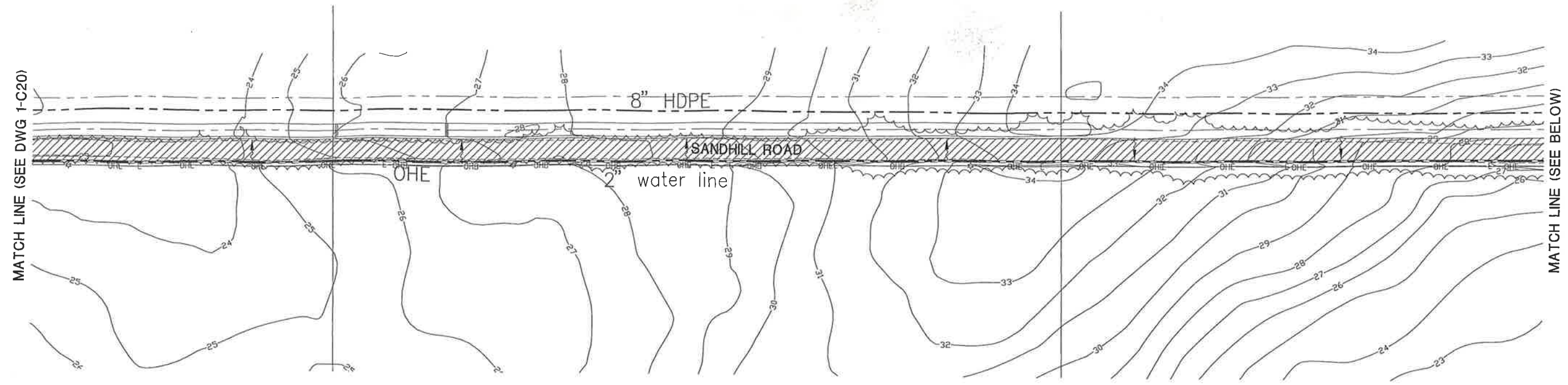
730 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5521

Jones Edmunds & Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS

TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

WASTEWATER COLLECTION
SYSTEM LAYOUT AND
WWTP ACCESS ROAD

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1" = 50'	DWG. NO. 1-C20



As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE: _____

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe

Sheet Twenty Nine of Sixty
none of these sheets shall be considered complete
without the others

12/08/03 15:19 ABG 20450001-1-c21.dwg

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA
DRAWN TA
CHECKED JHH
JOHN H. HORVATH
PROJECT ENGINEER

Jones Edmunds & Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS
730 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5621

TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

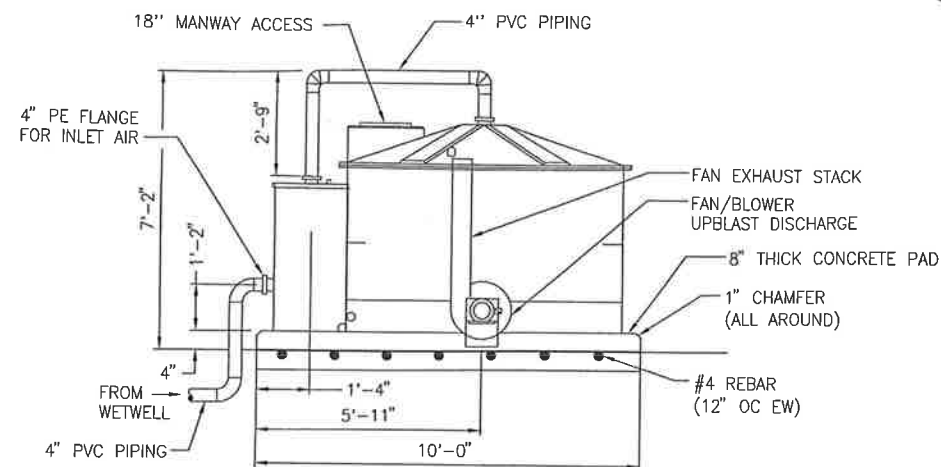
WASTEWATER COLLECTION SYSTEM LAYOUT AND WWTP ACCESS ROAD

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1" = 50'	DWG. NO. 1-C21

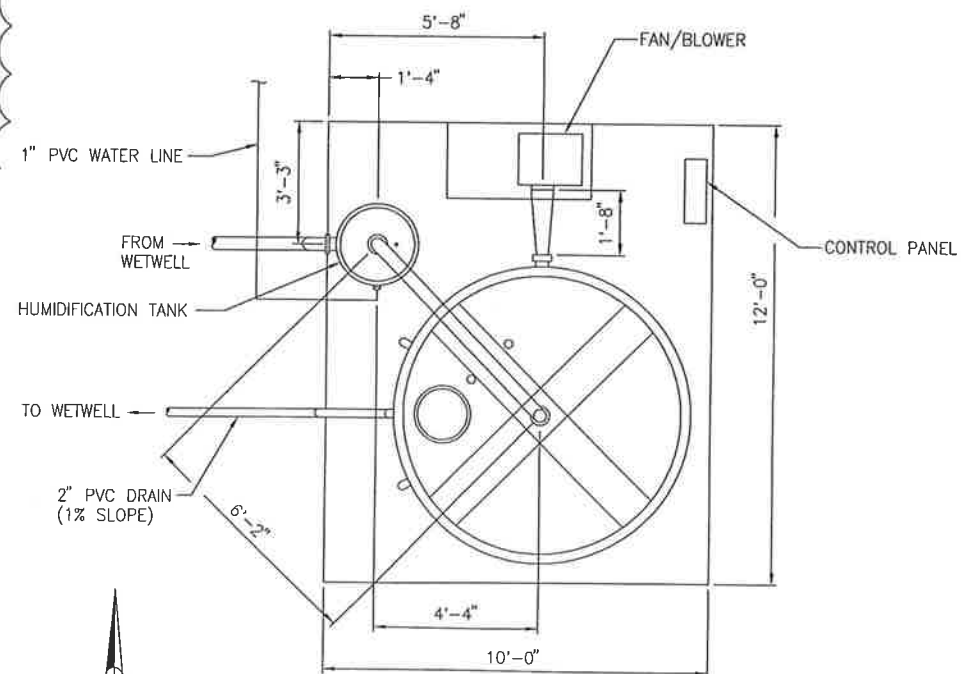
This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

WET WELL PVC PIPING CONNECTION



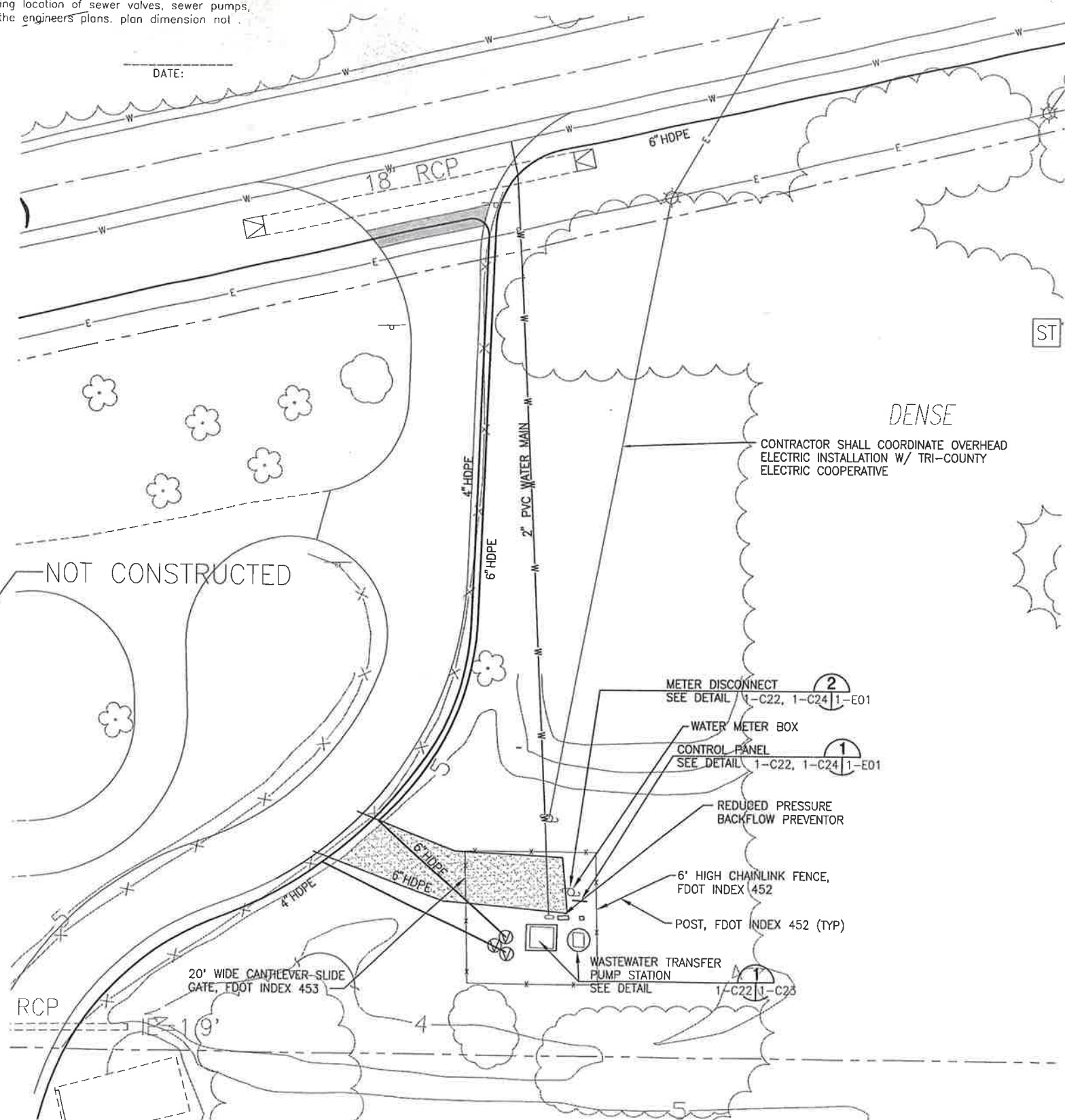
PROFILE VIEW



PLAN VIEW

BIOFILTER - ADDITIVE ALTERNATE 1

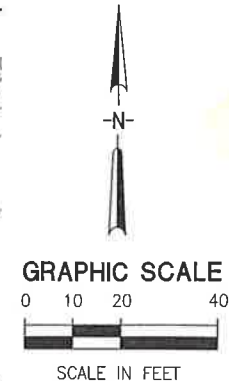
NTS



WASTEWATER TRANSFER PUMP STATION 1 ENLARGEMENT

1" = 20'

1-C09 1-C22



GRAPHIC SCALE

0 10 20 40

SCALE IN FEET

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe

04/22/04 13:49 ANS 20450001-1-c22.dwg

Sheet Thirty of Sixty
none of these sheets shall be considered complete
without the others

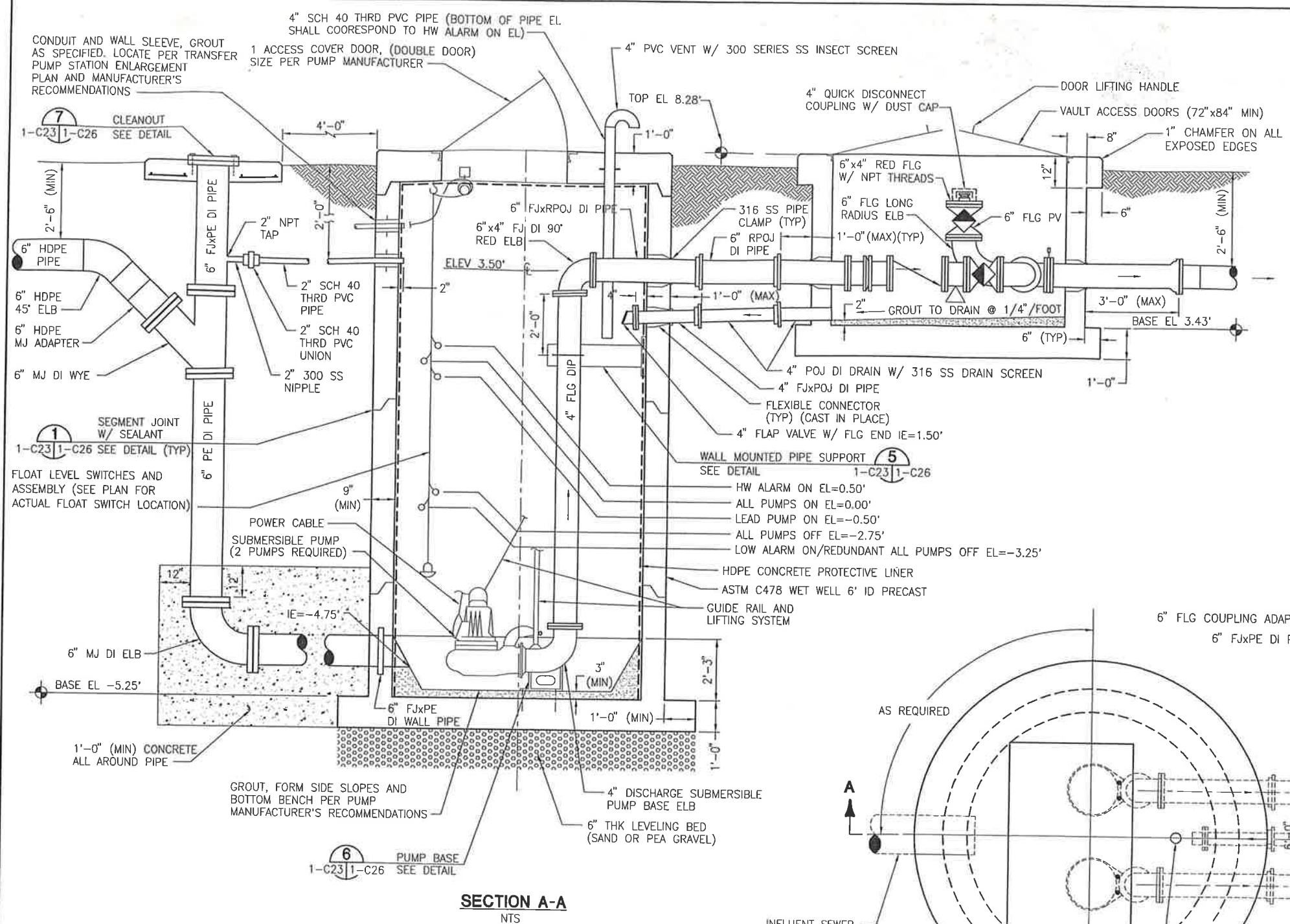
DESIGNED	TA
DRAWN	TA
CHECKED	JHH/CCB
PROJECT ENGINEER	JOHN H. HORVATH
DATE	BY
REVISIONS PER APPENDUM 1	ANS
REVISIONS	BY
DATE	APPROD.

CONSULTING ENGINEERS AND SCIENTISTS

TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

WASTEWATER TRANSFER
PUMP STATION 1 ENLARGEMENT
AND DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED FOR JEA BY	APR 2004	20450-001-03
JOHN H. HORVATH	SCALE	DWG. NO.
P.E. # 47093	AS NOTED	1-C22

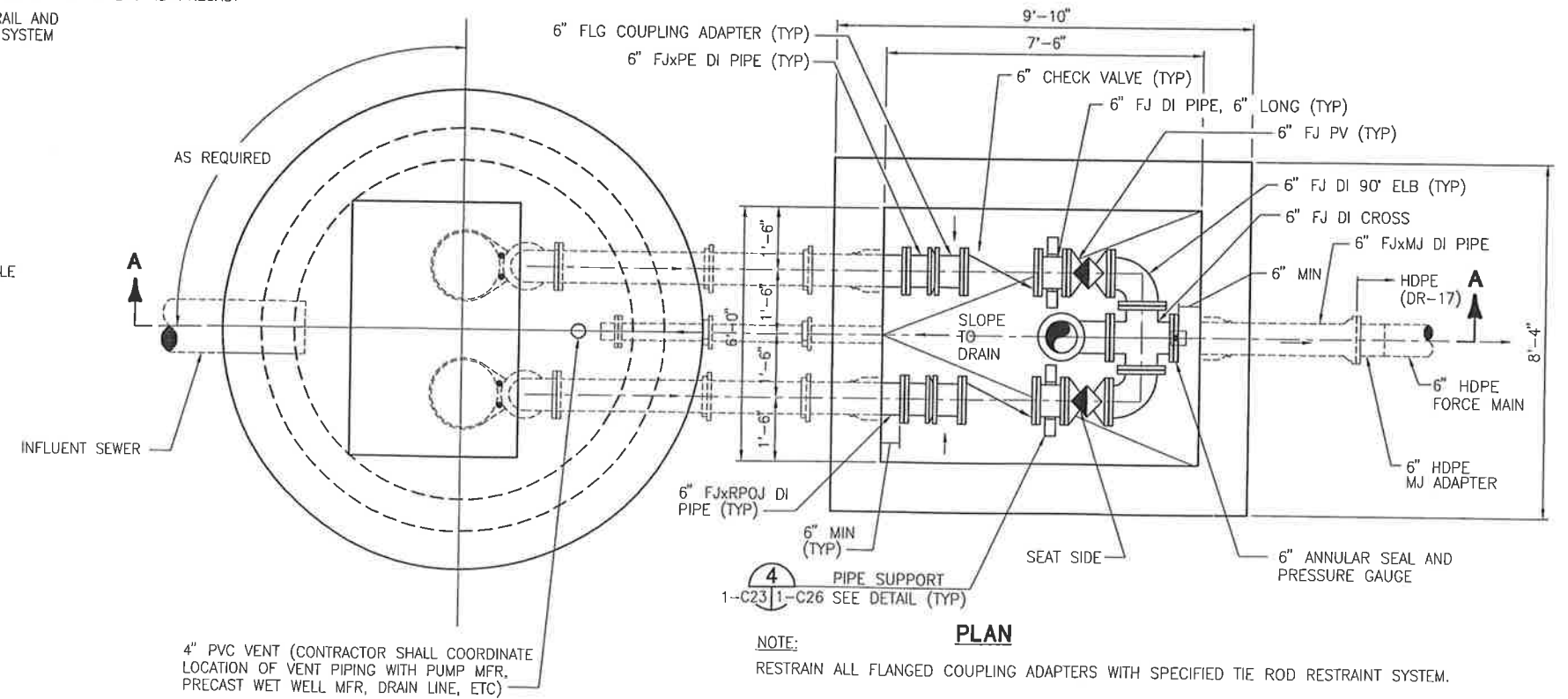
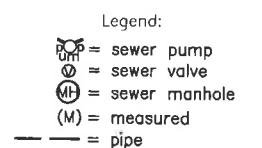


TRANSFER PUMP STATION NOTES

1. PUMP PLACEMENT SHALL BE PER MFR'S RECOMMENDATIONS.
2. CONTRACTOR SHALL VERIFY PUMP MFR'S REQUIREMENTS FOR OPENING FOR CAST-IN PLACE ACCESS COVER FRAME. CONTRACTOR SHALL VERIFY PUMP DIMENSIONS FOR OPENING CLEARANCE.
3. EXTERIOR OF WET WELL SHALL BE PAINTED WITH COAL TAR EPOXY AS SPECIFIED.
4. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE PAINTED PER SPECIFICATIONS.
5. GUIDE RAIL SHALL BE 316 SERIES SS, SIZE PER PUMP MFR'S RECOMMENDATION.
6. LOW ALARM ON / REDUNDANT ALL PUMPS OFF LEVEL TO BE SET SO THAT SUBMERSIBLE PUMP MOTOR IS TOTALLY SUBMERGED.
7. PROVIDE SPARK-PROOF CONTACT BETWEEN PUMPS AND GUIDE RAIL SYSTEM.
8. HANG FLOAT CABLES FROM 316 SS CABLE W/ EPOXY OR RUBBER COATED CAST IRON MUSHROOM ANCHOR OUT OF INFLUENT FLOW PATH. USE SS CLAMPS TO AFFIX FLOATS SECURELY TO ANCHOR. LOOP 316 SS CABLE THROUGH HOLES IN MUSHROOM ANCHOR TO ENSURE ANCHOR STAYS ATTACHED TO CABLE. USE ALL 316 SS FITTINGS AND HARDWARE (EXCEPT ANCHOR) FOR ASSEMBLY. ASSEMBLY NEEDS TO BE REACHABLE AND REMOVABLE FROM ACCESS COVER DOOR.
9. EACH ELECTRIC PUMP CABLE SHALL BE SUPPORTED FROM A S.S. CABLE RACK VIA A S.S. KELLUMS CABLE GRIP (OR EQUAL).

DESIGN BASIS PUMP SUMMARY DATA

1. PUMP MFR & MODEL NUMBER: FLYGHT, CP-3152 (4" VOLUTE)
2. IMPELLER: 454
3. MOTOR HP RATING: 20 HP
4. PUMP DISCHARGE SIZE: 4"



WASTEWATER TRANSFER PUMP STATION 1 DETAIL

As-built by Quality Plus Services 8-1-06
 This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
 Professional Surveyor and Mapper
 F.R.C. #3223 - L.B. #4765

DATE: _____
 Sheet Thirty One of Sixty
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TAYLOR COASTAL CENTRALIZED
 WASTEWATER SYSTEM PHASE I
 TAYLOR COUNTY, FLORIDA

WASTEWATER TRANSFER
 PUMP STATION 1 DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE AS NOTED	DWG. NO. 1-C23

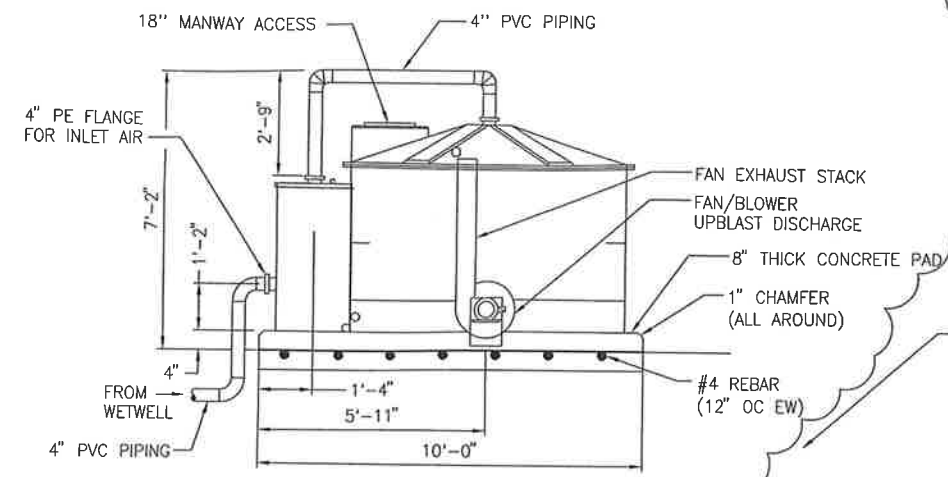
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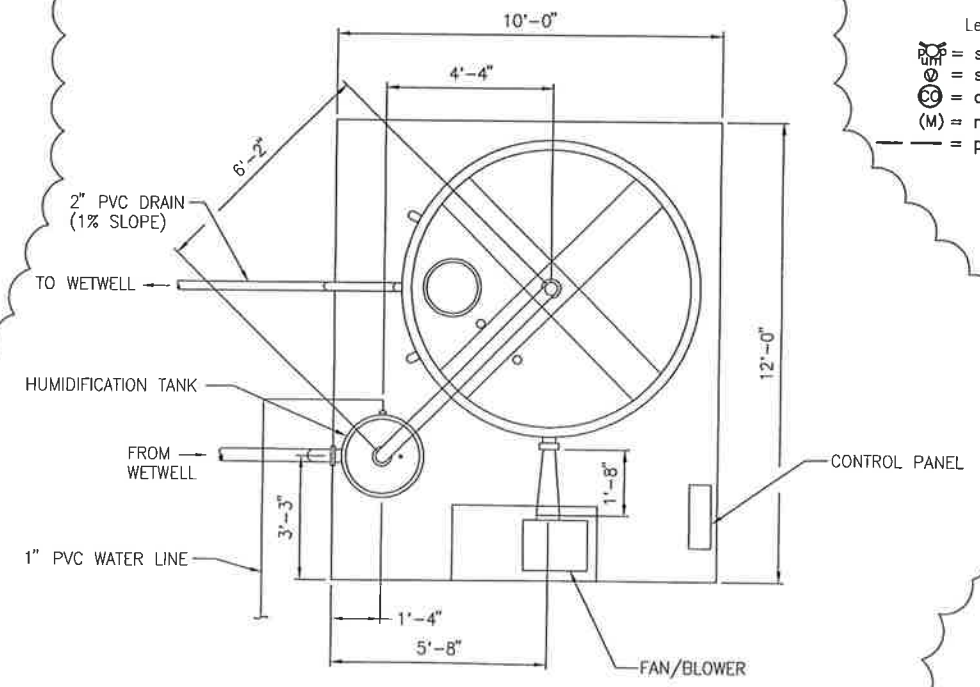
This is a Asbuilt, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

WET WELL PVC PIPING CONNECTION



PROFILE VIEW



PLAN VIEW

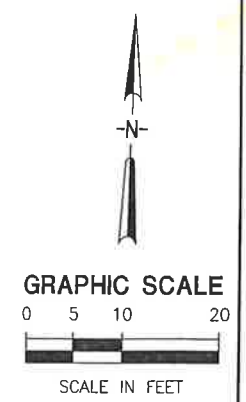
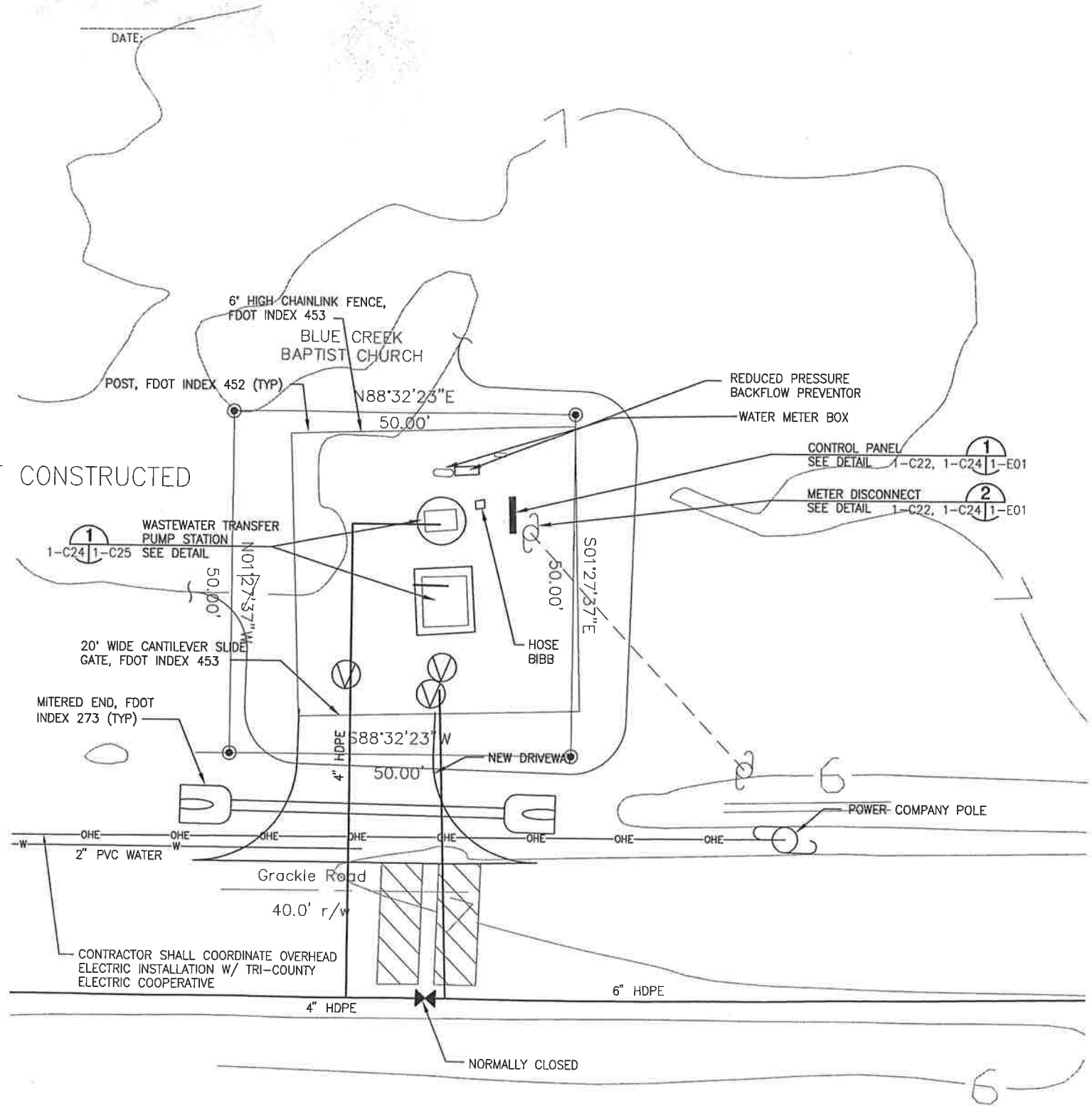
BIOFILTER - ADDITIVE ALTERNATE 2

NTS

Sheet Thirty Two of Sixty
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NOT CONSTRUCTED

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe



WASTEWATER TRANSFER PUMP STATION 2 ENLARGEMENT

1" = 10'

1
1-C13A | 1-C24

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JOHN H. HORVATH
PROJECT ENGINEER

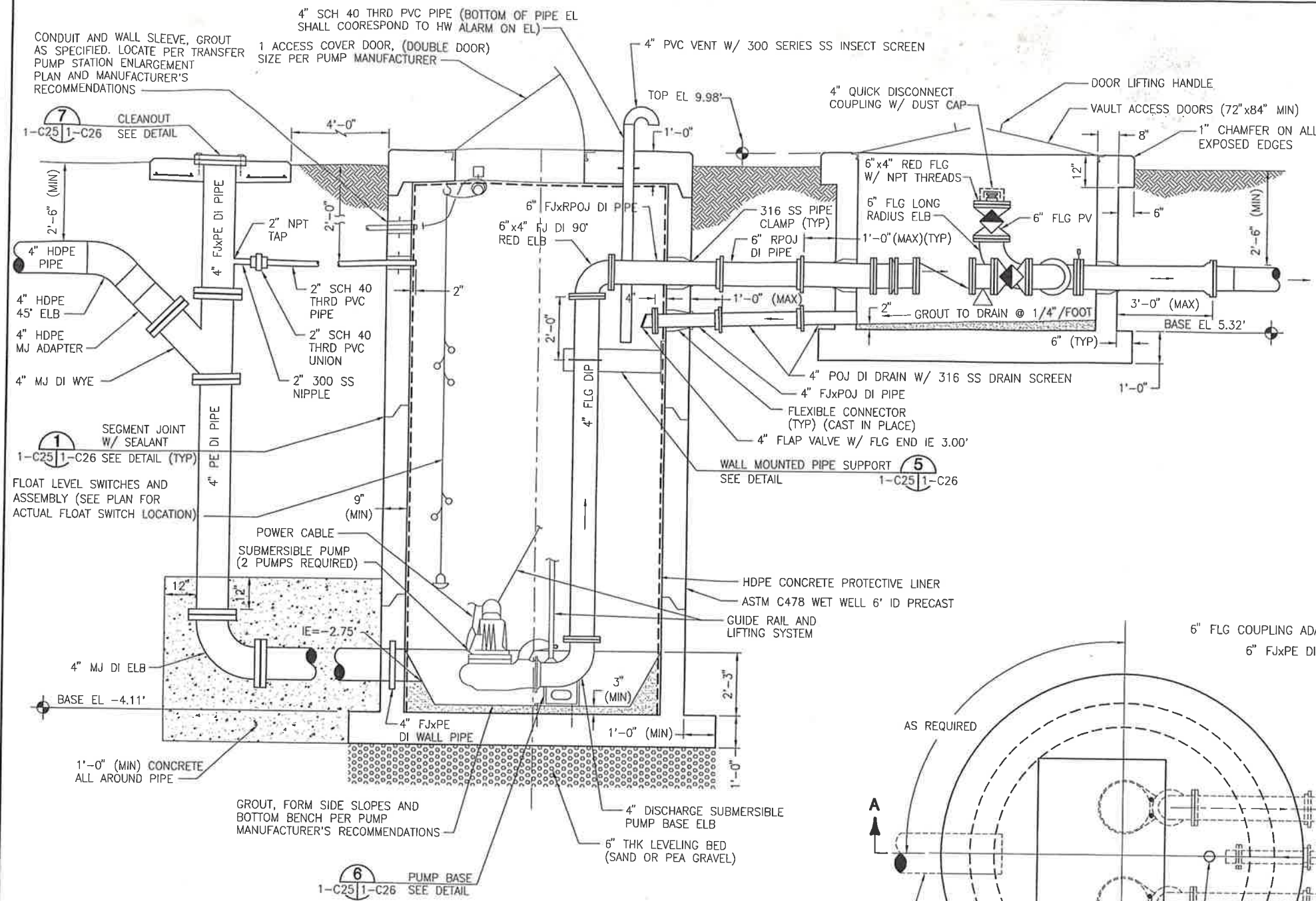
CONSULTING ENGINEERS AND SCIENTISTS

TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

WASTEWATER TRANSFER
PUMP STATION 2 ENLARGEMENT
AND DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841
APPROVED FOR JEA BY
JOHN H. HORVATH
P.E. # 47093

DATE APR 2004
SCALE AS NOTED
PROJECT NO. 20450-001-03
DWG. NO. 1-C24



TRANSFER PUMP STATION NOTES

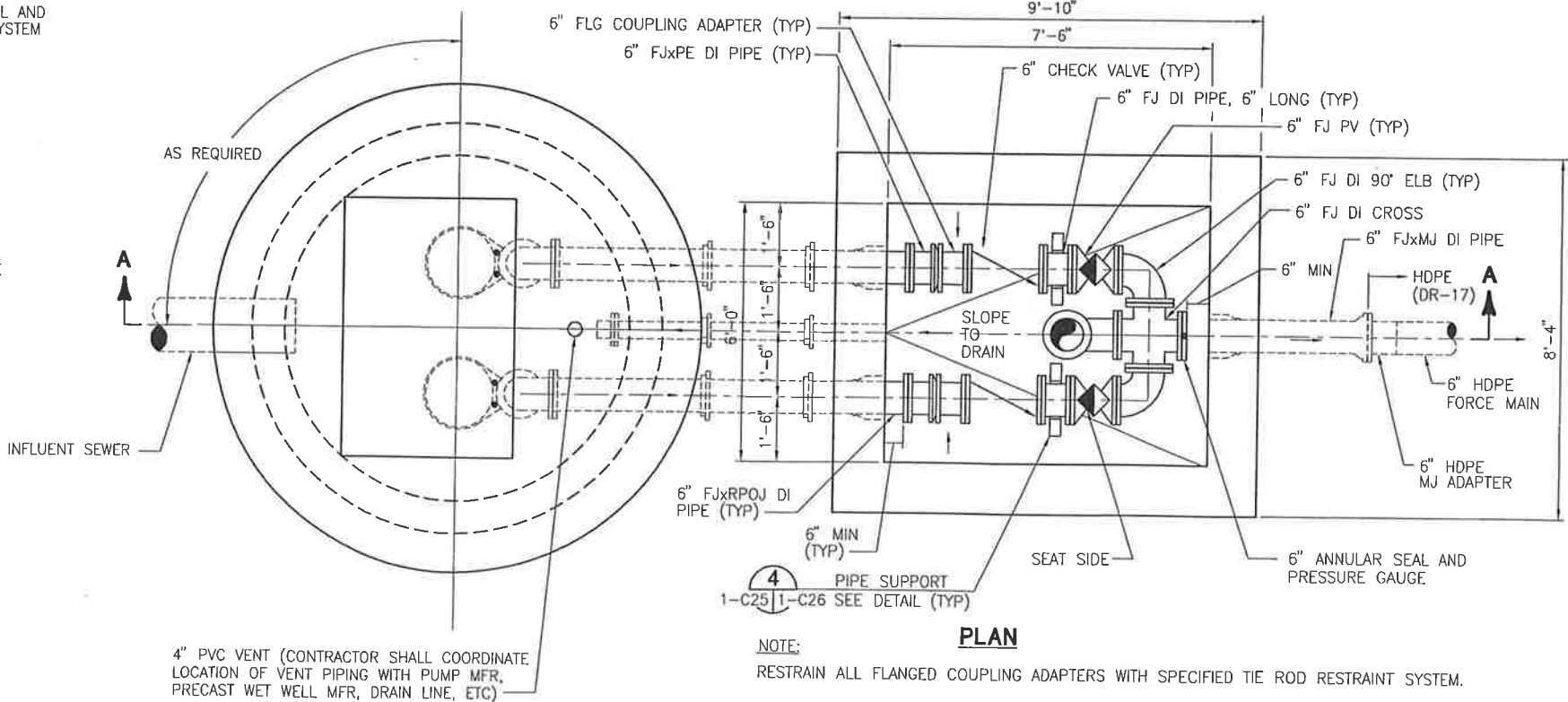
1. PUMP PLACEMENT SHALL BE PER MFR'S RECOMMENDATIONS.
2. CONTRACTOR SHALL VERIFY PUMP MFR'S REQUIREMENTS FOR OPENING FOR CAST-IN PLACE ACCESS COVER FRAME. CONTRACTOR SHALL VERIFY PUMP DIMENSIONS FOR OPENING CLEARANCE.
3. EXTERIOR OF WET WELL SHALL BE PAINTED WITH COAL TAR EPOXY AS SPECIFIED.
4. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE PAINTED PER SPECIFICATIONS.
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7. PROVIDE SPARK-PROOF CONTACT BETWEEN PUMPS AND GUIDE RAIL SYSTEM.
8. HANG FLOAT CABLES FROM 316 SS CABLE W/ EPOXY OR RUBBER COATED CAST IRON MUSHROOM ANCHOR OUT OF INFLUENT FLOW PATH. USE SS CLAMPS TO AFFIX FLOATS SECURELY TO ANCHOR. LOOP 316 SS CABLE THROUGH HOLES IN MUSHROOM ANCHOR TO ENSURE ANCHOR STAYS ATTACHED TO CABLE. USE ALL 316 SS FITTINGS AND HARDWARE (EXCEPT ANCHOR) FOR ASSEMBLY. ASSEMBLY NEEDS TO BE REACHABLE AND REMOVABLE FROM ACCESS COVER DOOR.
9. EACH ELECTRIC PUMP CABLE SHALL BE SUPPORTED FROM A S.S. CABLE RACK VIA A S.S. KELLUMS CABLE GRIP (OR EQUAL).

DESIGN BASIS PUMP SUMMARY DATA

1. PUMP MFR & MODEL NUMBER: FLYGHT, CP-3127
2. IMPELLER: 484
3. MOTOR HP RATING: 10 HP
4. PUMP DISCHARGE SIZE: 4"

Legend:

- = sewer pump
- = sewer valve
- = clean out
- = measured
- = pipe



NOTE:
RESTRAIN ALL FLANGED COUPLING ADAPTERS WITH SPECIFIED TIE ROD RESTRAINT SYSTEM.

WASTEWATER TRANSFER PUMP STATION 2 DETAIL 1

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This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE: _____
Sheet Thirty Three of Sixty
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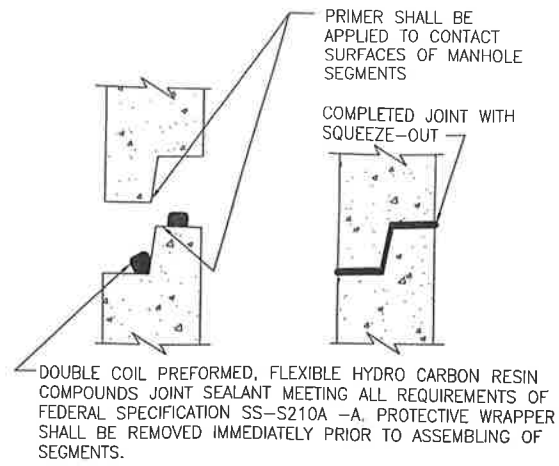
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DRAWN TA
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JOHN H. HORVATH
PROJECT ENGINEER

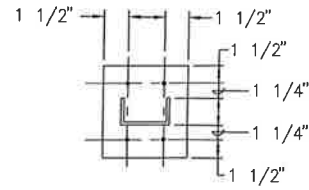
TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

WASTEWATER TRANSFER
PUMP STATION 2 DETAILS

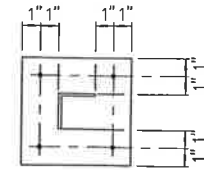
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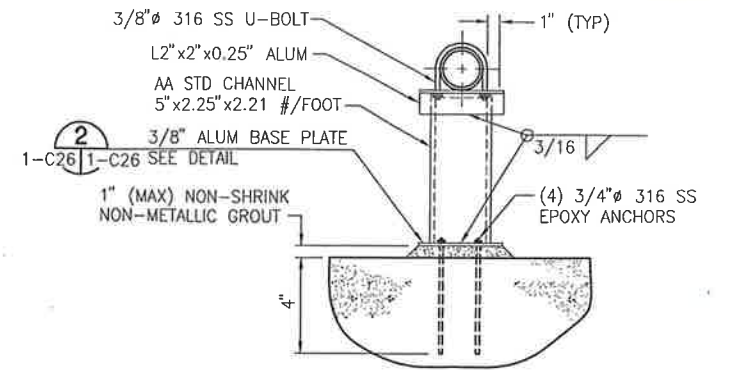
TYPICAL LIFT STATION SEGMENT JOINT DETAIL W/ SEALANT 1
NTS 1-C23, 1-C25 1-C26



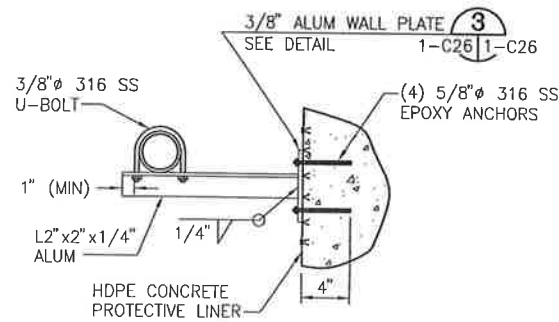
ALUMINUM BASE PLATE DETAIL 2
NTS 1-C26 1-C26



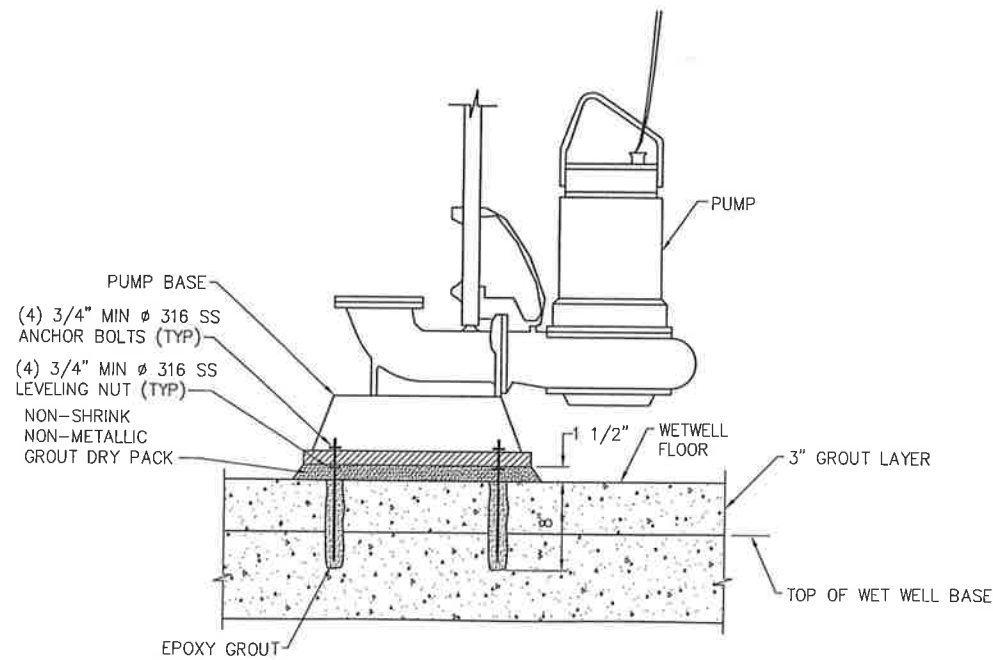
ALUMINUM WALL PLATE DETAIL 3
NTS 1-C26 1-C26



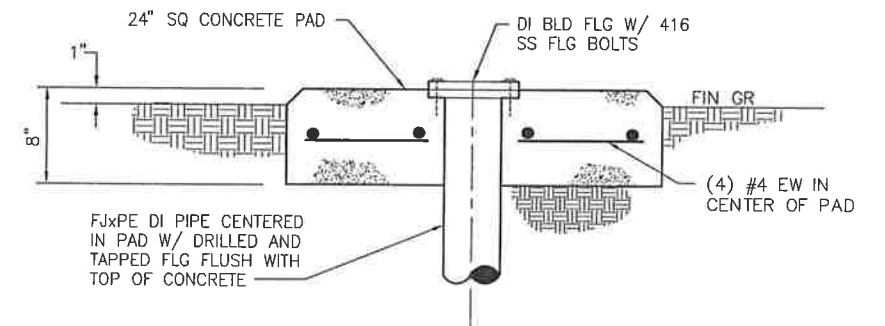
PIPE SUPPORT DETAIL 4
NTS 1-C23, 1-C25 1-C26



WALL MOUNTED PIPE SUPPORT 5
NOTE: ORIENTATION SHALL BE AS INDICATED ON THE PIPE DRAWINGS.
NTS 1-C23, 1-C25 1-C26



PUMP BASE DETAIL 6
NTS 1-C23, 1-C25 1-C26



NOTE:
FULLY THREAD/INSERT ALL FLG BOLTS INTO/THRU TAPPED FLG (W/O BLD FLG) AND COAT ALL THREADS WITH GREASE JUST PRIOR TO CONCRETE PLACEMENT TO PRECLUDE CONCRETE FOULING OF THREADS. AFTER CONC HAS CURED, REMOVE BOLTS AND INSTALL GASKET AND BLD FLG.

CLEANOUT DETAIL 7
NTS 1-C23, 1-C25 1-C26

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PROJECT ENGINEER	JOHN H. HORVATH			
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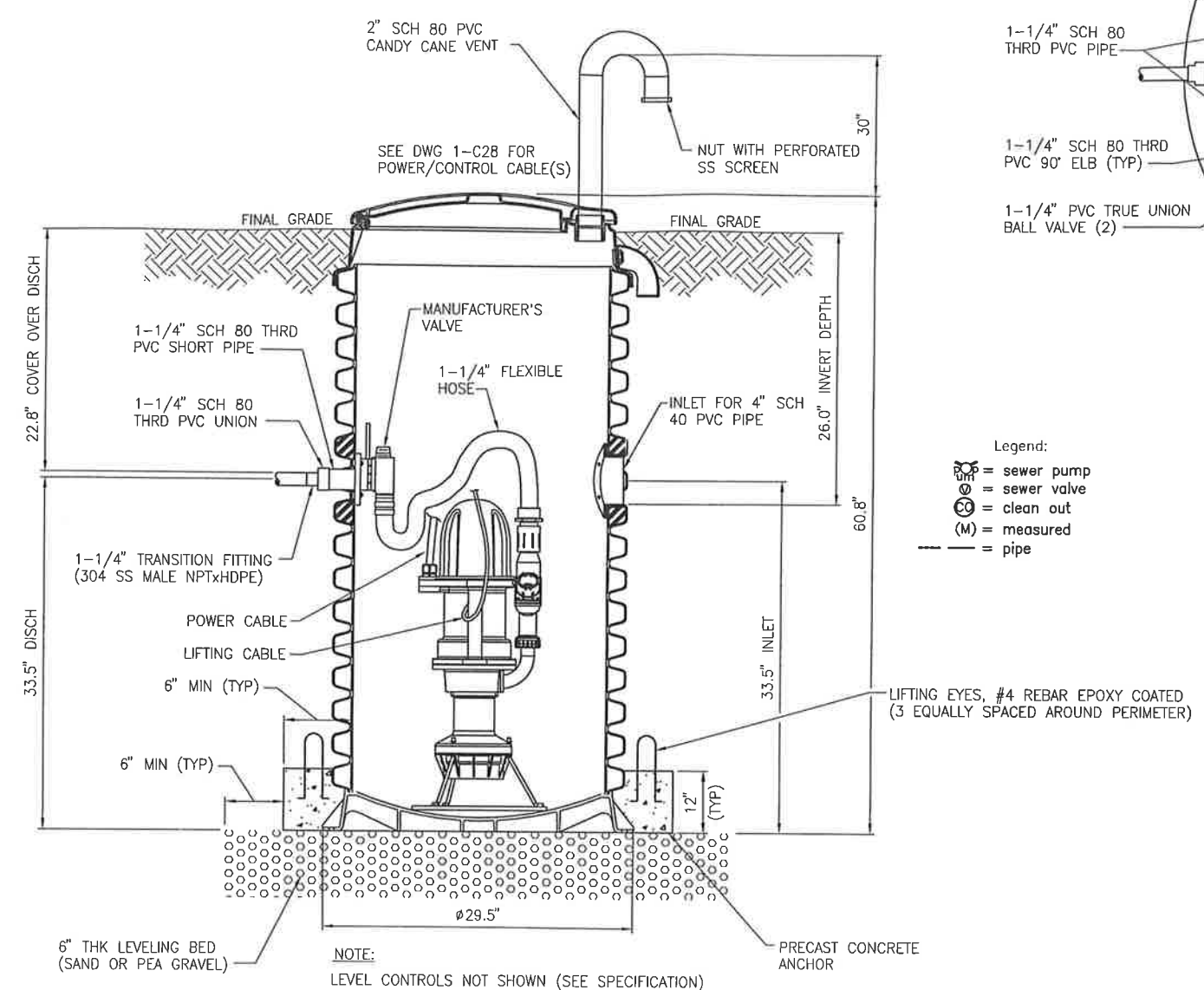
730 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5521

Jones Edmunds & Associates, Inc. JEA CONSULTING ENGINEERS AND SCIENTISTS

TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

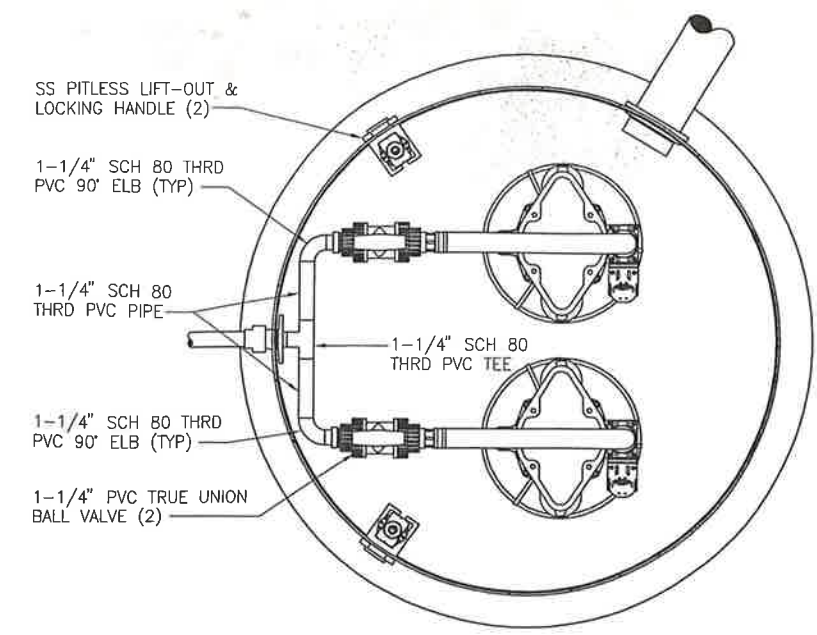
WASTEWATER TRANSFER PUMP STATION DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE AS NOTED	DWG. NO. 1-C26

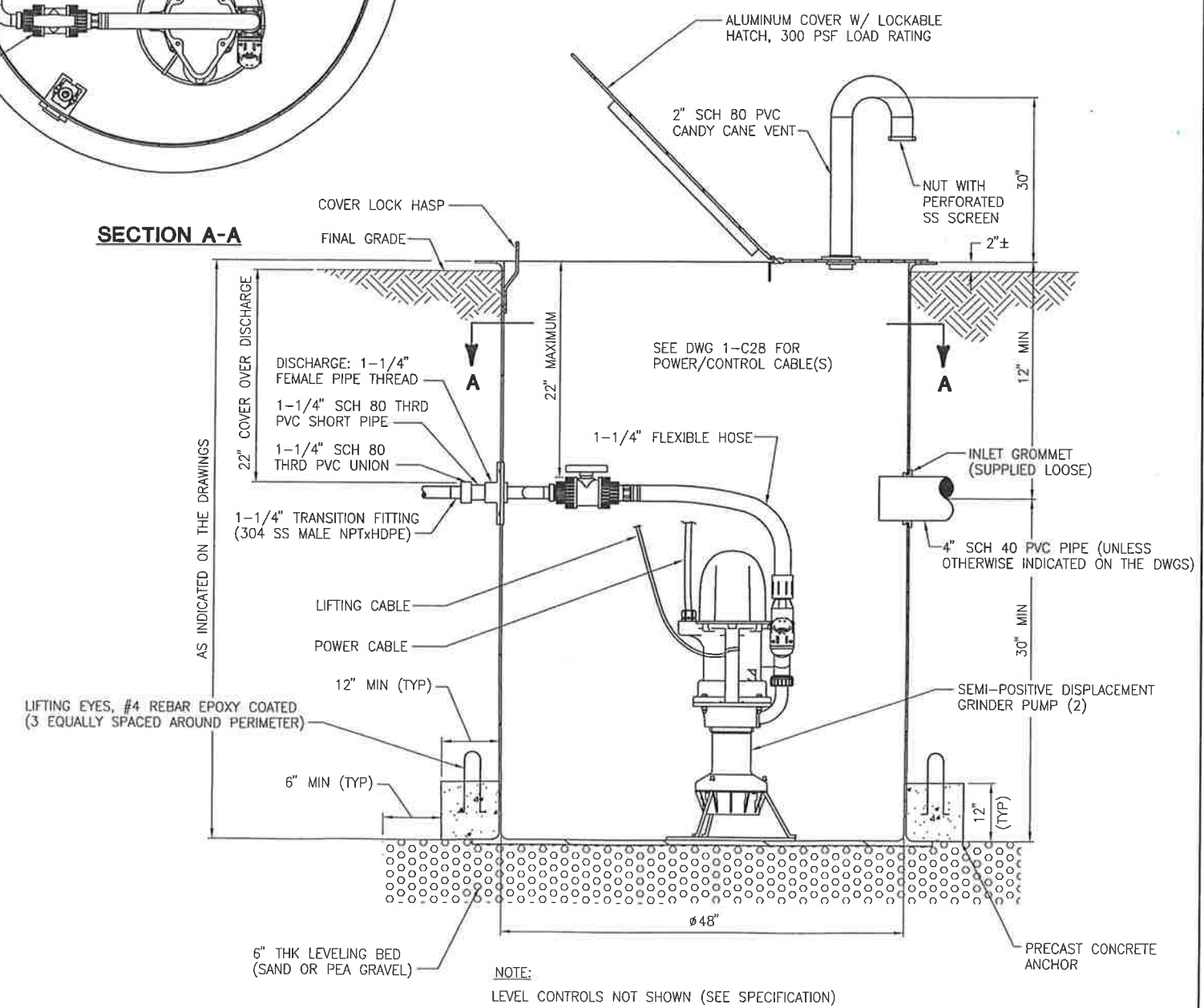


TYPICAL SIMPLEX GRINDER PUMP STATION 1
NTS 0-V06 1-C27

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Legend:
 = sewer pump
 = sewer valve
 = clean out
 = measured
 = pipe



DUPLEX GRINDER PUMP STATION 2
NTS 0-V06 1-C27

Sheet Thirty Five of Sixty
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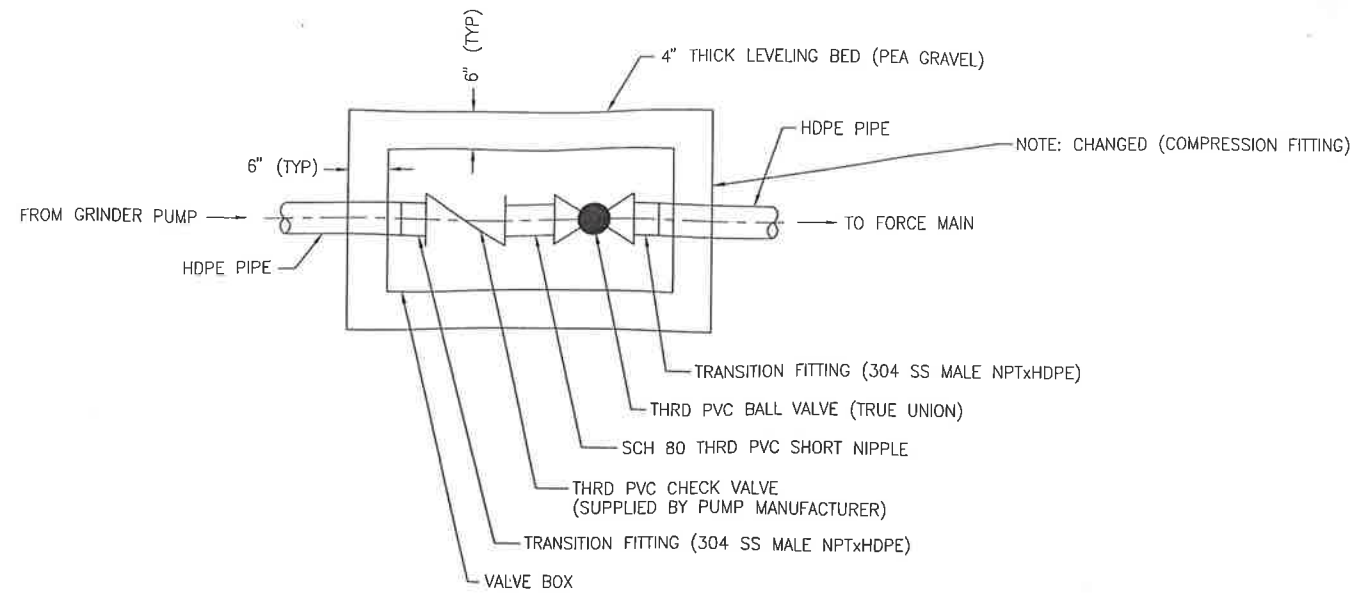
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DRAWN	TA
CHECKED	JHH/CCB
BY	JOHN H. HORVATH
APPROD.	PROJECT ENGINEER

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 730 Northeast Waldo Road/Gainesville, Florida 32644 / (352) 377-3882

**TAYLOR COASTAL CENTRALIZED
 WASTEWATER SYSTEM PHASE I
 TAYLOR COUNTY, FLORIDA**

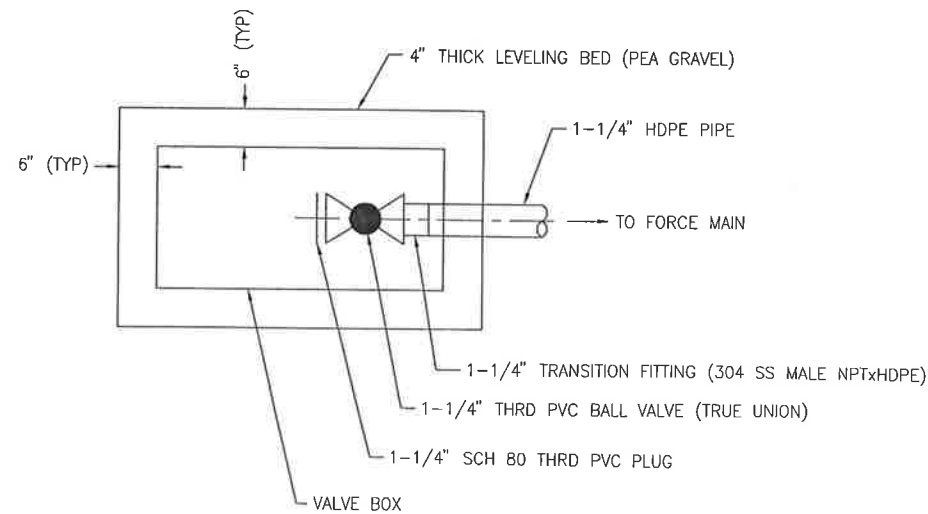
GRINDER PUMP STATION DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE AS NOTED	DWG. NO. 1-C27



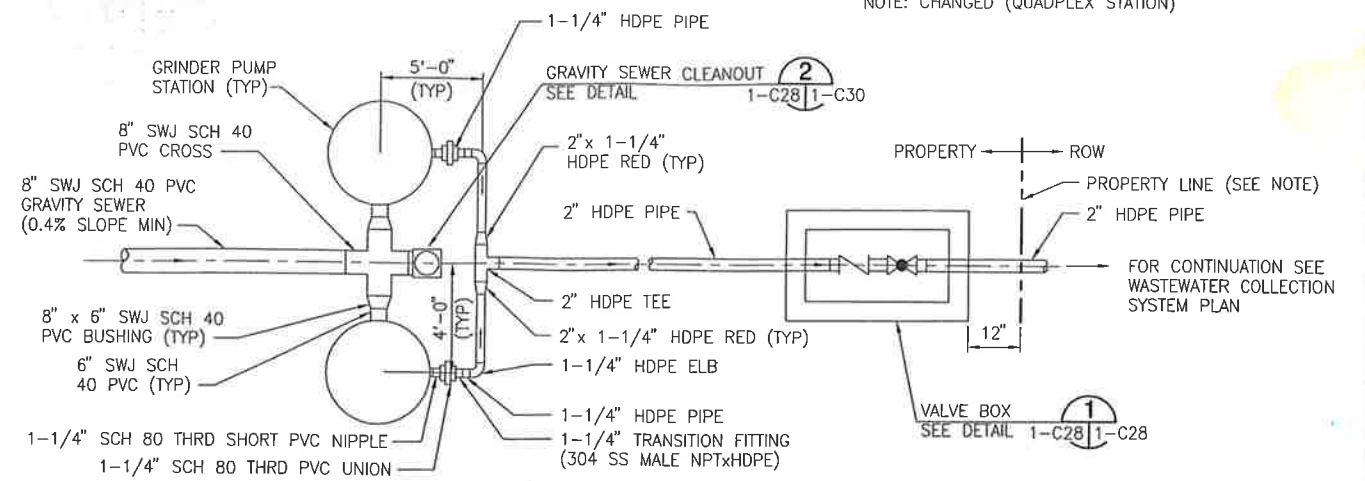
NOTE:
PIPE, VALVES, AND FITTINGS SHALL BE 1 1/4" DIAMETER FOR
NON-MANIFOLDED STATIONS AND 2" DIAMETER FOR MANIFOLDED STATIONS.

VALVE BOX DETAIL 1
NTS 1-C28 1-C28



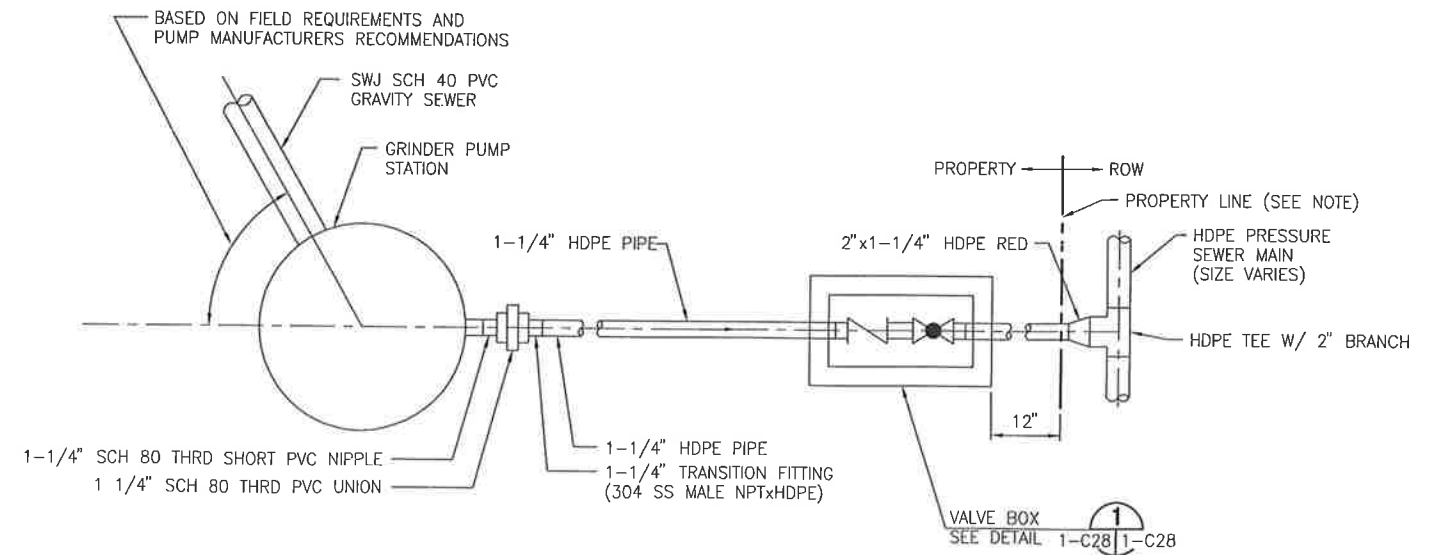
SERVICE STUBOUT FOR FUTURE CONNECTION DETAIL 2
NTS 0-V06 1-C28

As-built by Quality Plus Services 8-1-06



NOTE:
AT LOCATIONS WHERE THE 1-1/4" DISCHARGE PIPING CONNECTS TO THE
PRESSURE SEWER MAIN WITHIN THE PROPERTY BOUNDARY THE BALL VALVE
SHALL BE INSTALLED 2 FEET FROM THE PRESSURE SEWER MAIN.

**TYPICAL MANIFOLD GRINDER PUMP
STATION DISCHARGE PIPING DETAIL**
NTS



NOTE:
AT LOCATIONS WHERE THE 1-1/4" DISCHARGE PIPING CONNECTS TO THE
PRESSURE SEWER MAIN WITHIN THE PROPERTY BOUNDARY THE BALL VALVE
SHALL BE INSTALLED 2 FEET FROM THE PRESSURE SEWER MAIN.

TYPICAL GRINDER PUMP STATION DISCHARGE PIPING DETAIL
NTS

Sheet Thirty Six of Sixty
none of these sheets shall be considered complete
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TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA

GRINDER PUMP STATION
CONNECTION DETAILS

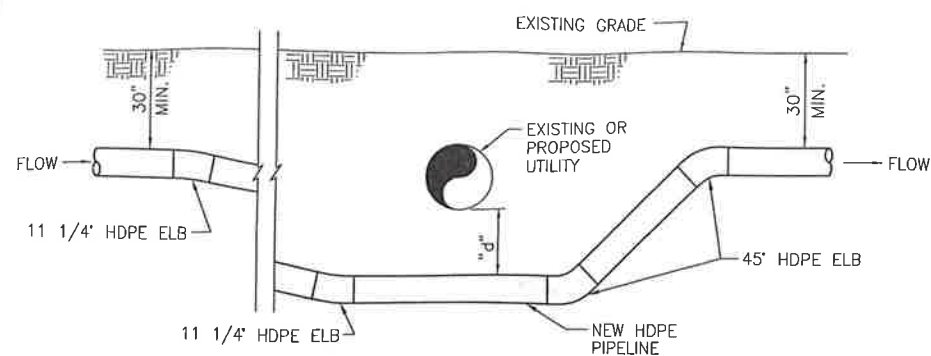
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JOHN H. HORVATH P.E. # 47093	SCALE AS NOTED	OWG. NO. 1-C28

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JOHN H. HORVATH
PROJECT ENGINEER

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Edmunds &
Associates, Inc. JEA
700 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5821
CONSULTING ENGINEERS AND SCIENTISTS

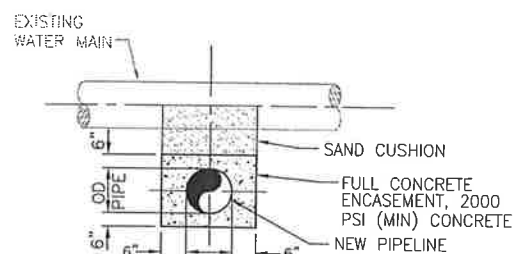


EXISTING OR PROPOSED UTILITY TYPE	MINIMUM SEPARATION "d"
WATER	18"
OTHER	12"

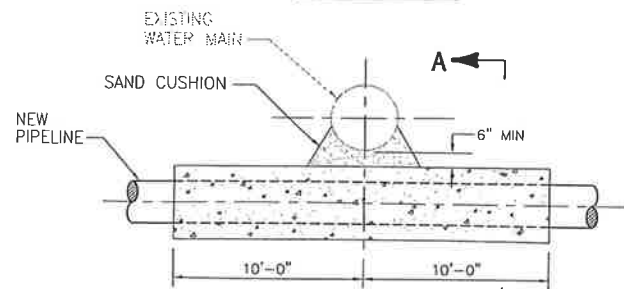
TYPICAL UTILITY CONFLICT ADJUSTMENT DETAIL

NTS

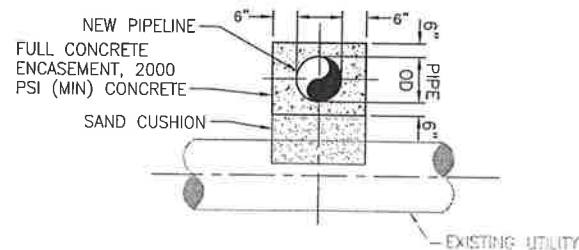
- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - (M) = measured
 - - - = pipe



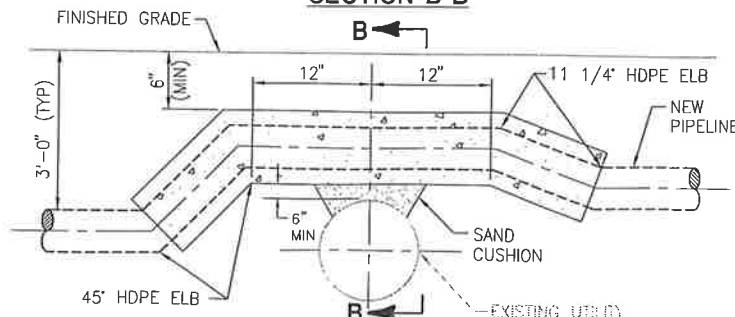
SECTION A-A



WATER MAIN CROSSING



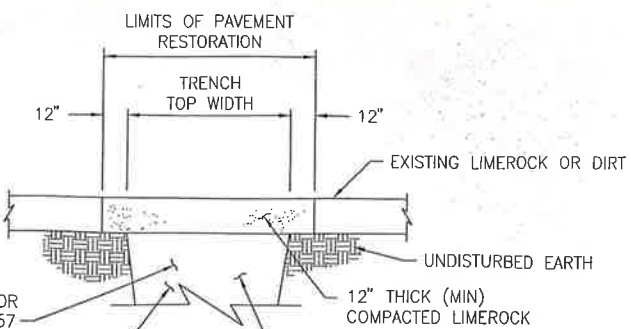
SECTION B-B



CULVERT CROSSING

CONCRETE ENCASEMENT DETAILS

NTS

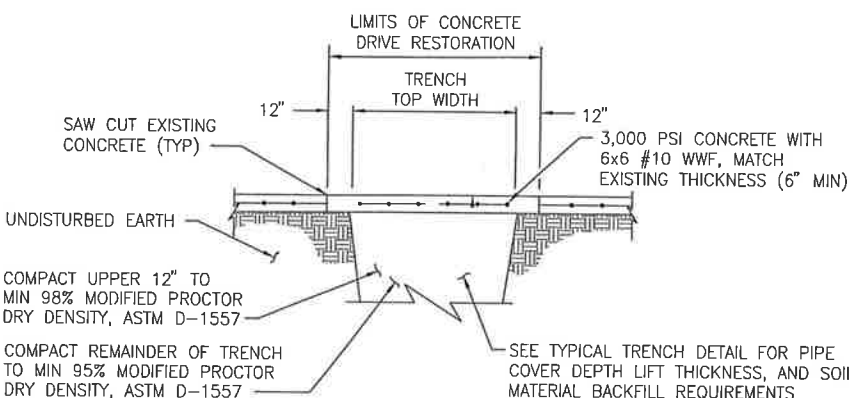


LIMITS OF PAVEMENT RESTORATION
TRENCH TOP WIDTH 12"
EXISTING LIMEROCK OR DIRT
UNDISTURBED EARTH
12" THICK (MIN) COMPACTED LIMEROCK
COMPACT UPPER 12" TO MIN 98% MODIFIED PROCTOR DRY DENSITY, ASTM D-1557
COMPACT REMAINDER OF TRENCH TO MIN 95% MODIFIED PROCTOR DRY DENSITY, ASTM D-1557
SEE TYPICAL TRENCH DETAIL FOR PIPE COVER DEPTH LIFT THICKNESS, AND SOIL MATERIAL BACKFILL REQUIREMENTS

LIMEROCK RESTORATION DETAIL 2

NTS

0-V0611-C29

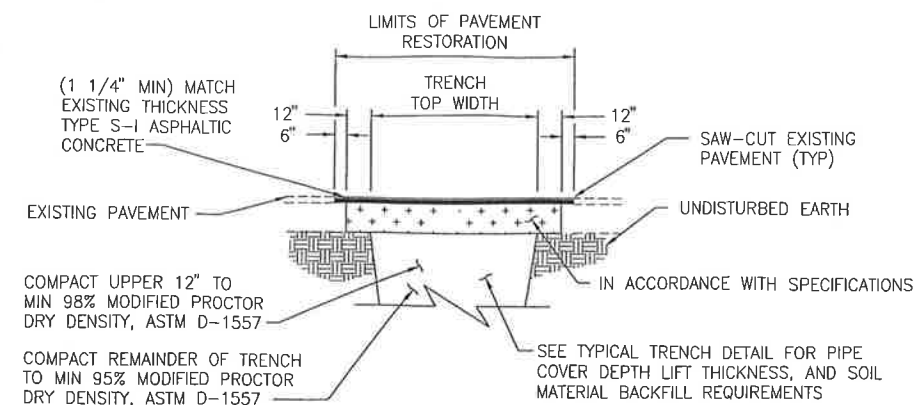


LIMITS OF CONCRETE DRIVE RESTORATION
TRENCH TOP WIDTH 12"
SAW CUT EXISTING CONCRETE (TYP)
3,000 PSI CONCRETE WITH 6x6 #10 WWF, MATCH EXISTING THICKNESS (6" MIN)
UNDISTURBED EARTH
COMPACT UPPER 12" TO MIN 98% MODIFIED PROCTOR DRY DENSITY, ASTM D-1557
COMPACT REMAINDER OF TRENCH TO MIN 95% MODIFIED PROCTOR DRY DENSITY, ASTM D-1557
SEE TYPICAL TRENCH DETAIL FOR PIPE COVER DEPTH LIFT THICKNESS, AND SOIL MATERIAL BACKFILL REQUIREMENTS

CONCRETE RESTORATION DETAIL 3

NTS

0-V0611-C29

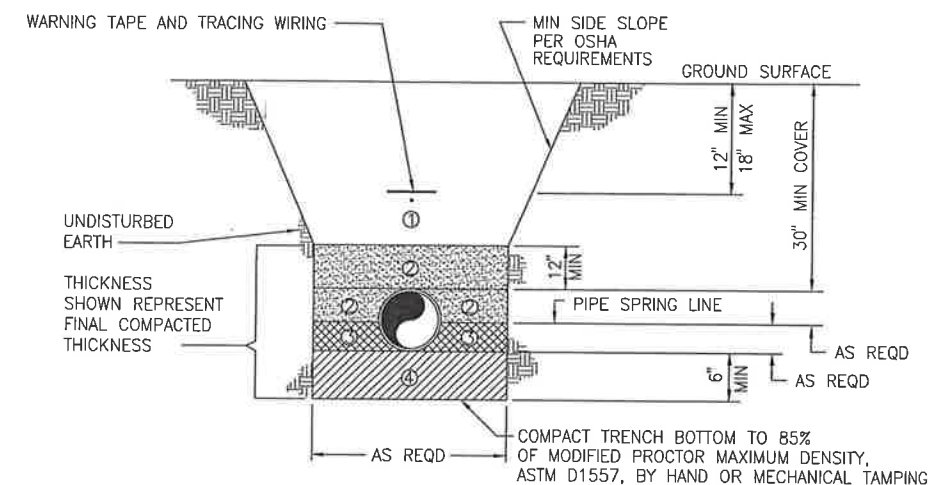


LIMITS OF PAVEMENT RESTORATION
TRENCH TOP WIDTH 12"
(1 1/4" MIN) MATCH EXISTING THICKNESS TYPE S-1 ASPHALTIC CONCRETE
6"
SAW-CUT EXISTING PAVEMENT (TYP)
EXISTING PAVEMENT
UNDISTURBED EARTH
COMPACT UPPER 12" TO MIN 98% MODIFIED PROCTOR DRY DENSITY, ASTM D-1557
COMPACT REMAINDER OF TRENCH TO MIN 95% MODIFIED PROCTOR DRY DENSITY, ASTM D-1557
SEE TYPICAL TRENCH DETAIL FOR PIPE COVER DEPTH LIFT THICKNESS, AND SOIL MATERIAL BACKFILL REQUIREMENTS

ASPHALT PAVEMENT RESTORATION DETAIL 1

NTS

0-V0611-C29



- ① **FINAL BACKFILL** - CLEAN, WELL GRADED MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. FINAL BACKFILL SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 6", LOOSE MEASUREMENT.
 - ② **INITIAL BACKFILL** - CLEAN, WELL GRADED MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. BACKFILL SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 6", LOOSE MEASUREMENT, AND SHALL BE COMPACTED TO AT LEAST 85% MODIFIED PROCTOR MAXIMUM DRY DENSITY, ASTM D-1557. BACKFILL SHALL EXTEND TO THE TOP OF THE PIPE AFTER COMPACTATION. ALL LIFTS SHALL BE COMPACTED BY HAND TAMPING OR AN APPROVED METHOD OF MECHANICAL TAMPING.
 - ③ **HAUNCHING** - CLEAN, WELL GRADED MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. HAUNCHING SHALL BE INSTALLED IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 4", LOOSE MEASUREMENT, AND SHALL BE COMPACTED TO AT LEAST 85% MODIFIED PROCTOR MAXIMUM DRY DENSITY, ASTM D-1557, BY HAND TAMPING. HAUNCHING SHALL BE BROUGHT UP EQUALLY ON BOTH SIDES OF THE PIPE.
 - ④ **BEDDING** - CLEAN, WELL GRADED MATERIAL IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. BEDDING SHALL BE INSTALLED IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 6", LOOSE MEASUREMENT, AND SHALL BE COMPACTED TO AT LEAST 85% MODIFIED PROCTOR MAXIMUM DRY DENSITY, ASTM D-1557, BY HAND OR MECHANICAL TAMPING. PROPERLY SHAPED BELL HOLES SHALL BE EXCAVATED IN THE COMPACTED BEDDING TO PERMIT ASSEMBLY OF THE PIPE.
- NOTE: NATIVE, UNDISTURBED MATERIAL IN COMPLETELY DEWATERED TRENCHES MEETING THE REQUIREMENTS FOR COMPACTED BEDDING MATERIAL NEED NOT BE REPLACED OR REWORKED, EXCEPT FOR SHAPING OF BELL HOLES AND WHERE REFILL IS REQUIRED.

TYPICAL TRENCH DETAIL

NTS

As-built by Quality Plus Services 8-1-06

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Sheet Thirty Seven of Sixty
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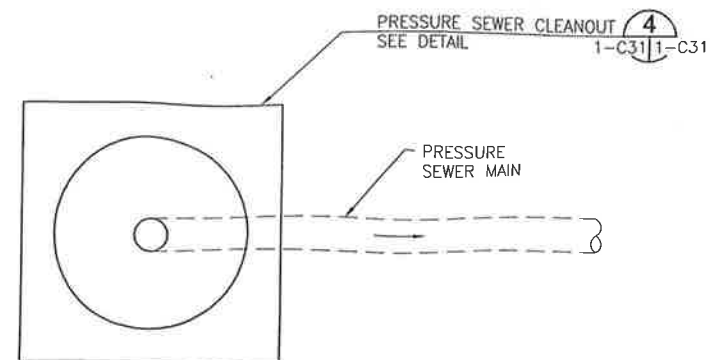
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CHECKED	JHH
PROJECT ENGINEER	JOHN H. HORVATH
LTR.	DATE
REVISIONS	BY
APPRD.	

Jones Edmunds & Associates, Inc. **JEA** CONSULTING ENGINEERS AND SCIENTISTS
730 Northeastaldo Road/Cincinnati, Florida 32841 / (352) 377-5821

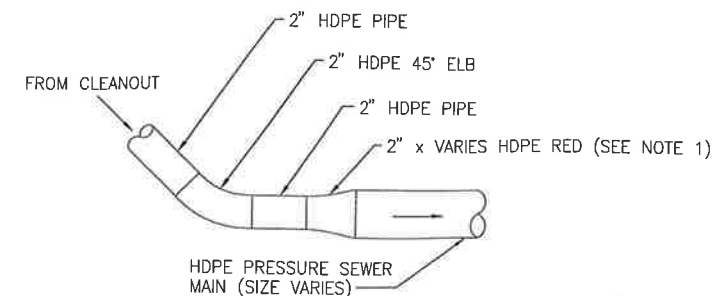
TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED FOR JEA BY	APR 2004	20450-001-03
JOHN H. HORVATH	SCALE	OWG. NO.
P.E. # 47093	AS NOTED	1-C29



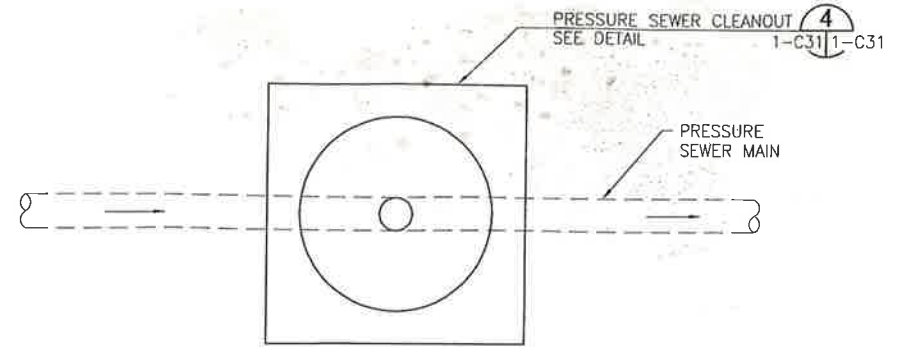
PLAN



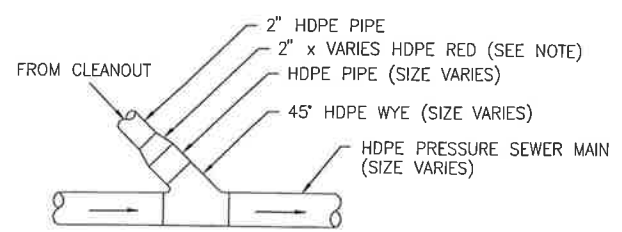
PROFILE

- NOTES:**
1. REQUIRED WHEN PRESSURE SEWER MAIN IS GREATER THAN 2" DIAMETER.
 2. PIPING AND FITTINGS SHALL BE 1 1/2" DIAMETER WHEN PRESSURE SEWER MAIN IS 1 1/2" DIAMETER.

TERMINAL CLEANOUT CONNECTION DETAIL 1
NTS 0-V06|1-C31



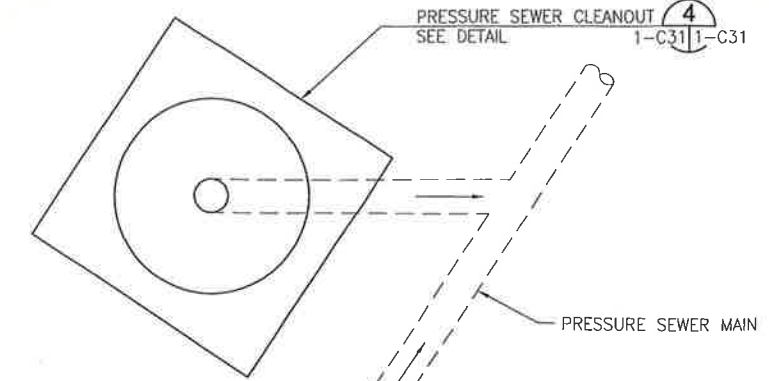
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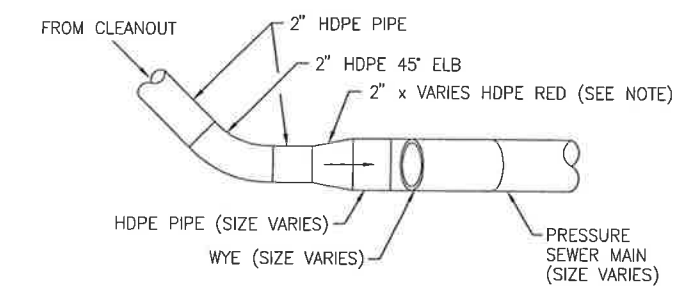
PROFILE

- NOTE:**
REQUIRED WHEN PRESSURE SEWER MAIN IS GREATER THAN 2" DIAMETER.

IN-LINE CLEANOUT CONNECTION DETAIL 2
NTS 0-V06|1-C31



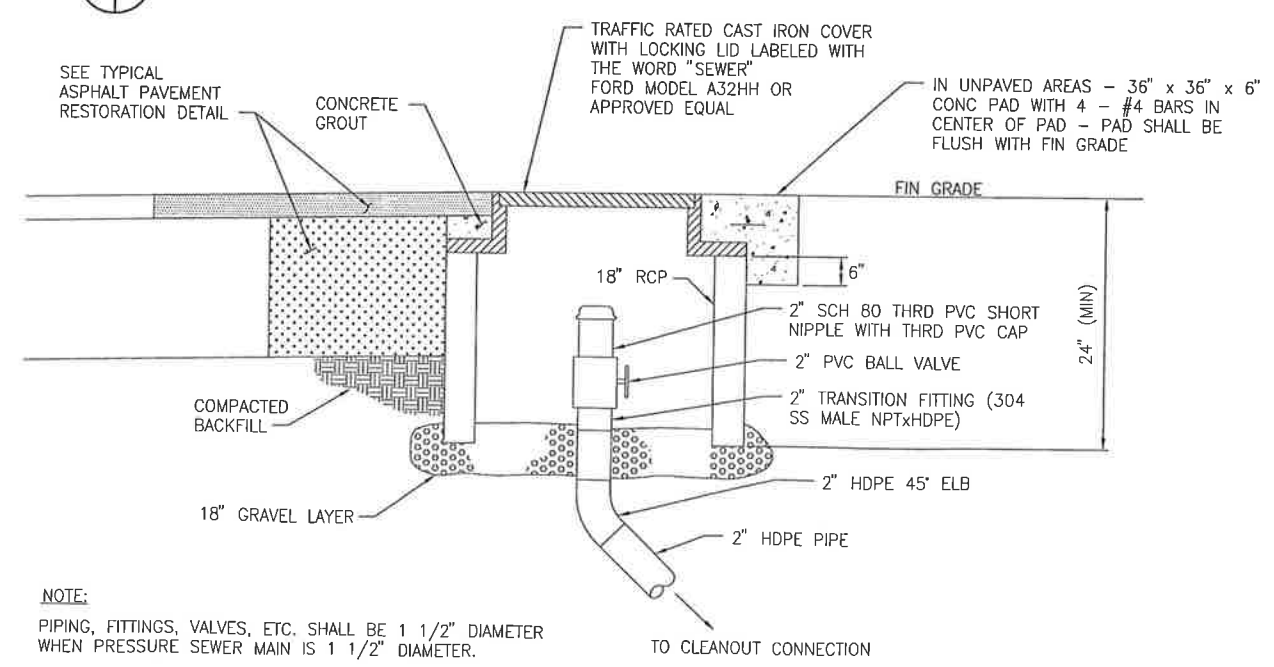
PLAN



PROFILE

- NOTE:**
REQUIRED WHEN PRESSURE SEWER MAIN IS GREATER THAN 2" DIAMETER.

OFF-LINE CLEANOUT CONNECTION DETAIL 3
NTS 0-V06|1-C31



- NOTE:**
PIPING, FITTINGS, VALVES, ETC. SHALL BE 1 1/2" DIAMETER WHEN PRESSURE SEWER MAIN IS 1 1/2" DIAMETER.

PRESSURE SEWER CLEANOUT DETAIL 4
NTS 1-C31|1-C31

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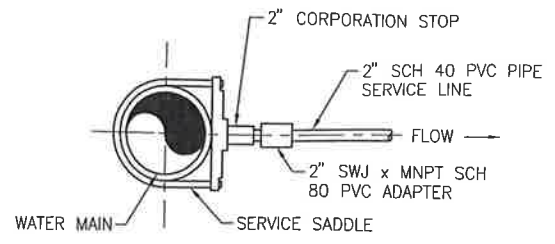
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DESIGNED	TA
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BY	JOHN H. HORVATH
APPRD.	PROJECT ENGINEER

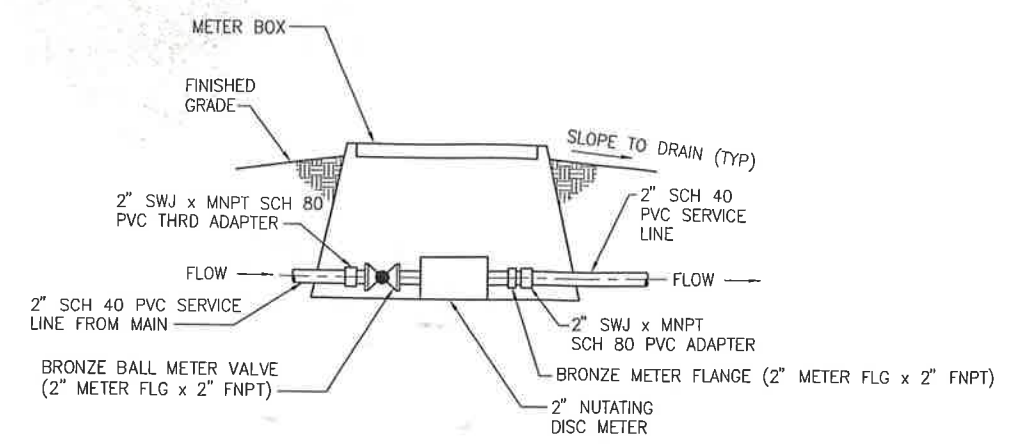
**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

DETAILS

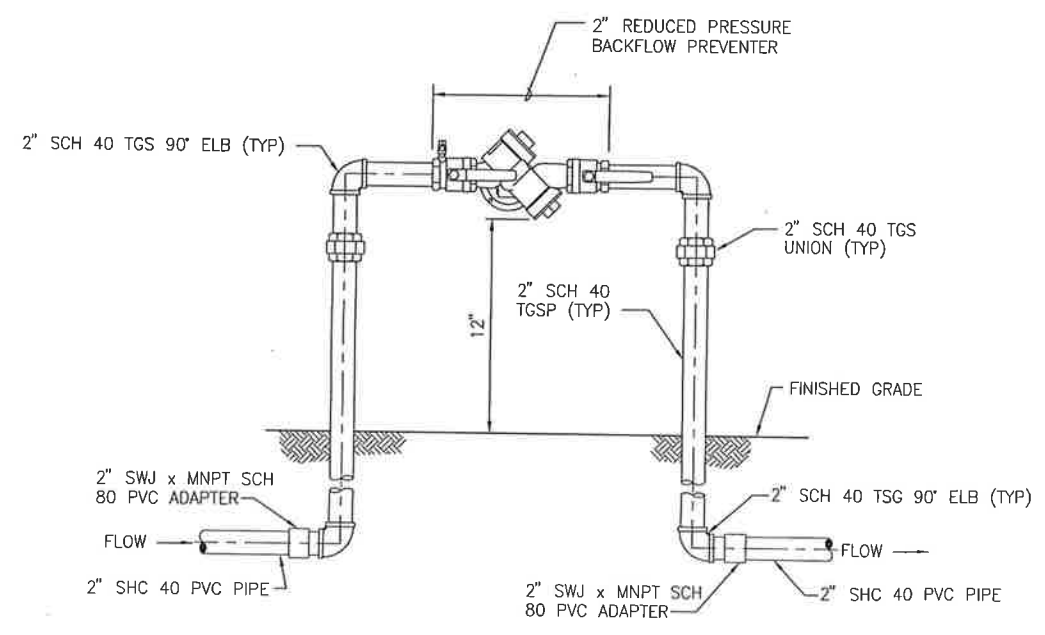
JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE AS NOTED	DWG. NO. 1-C31



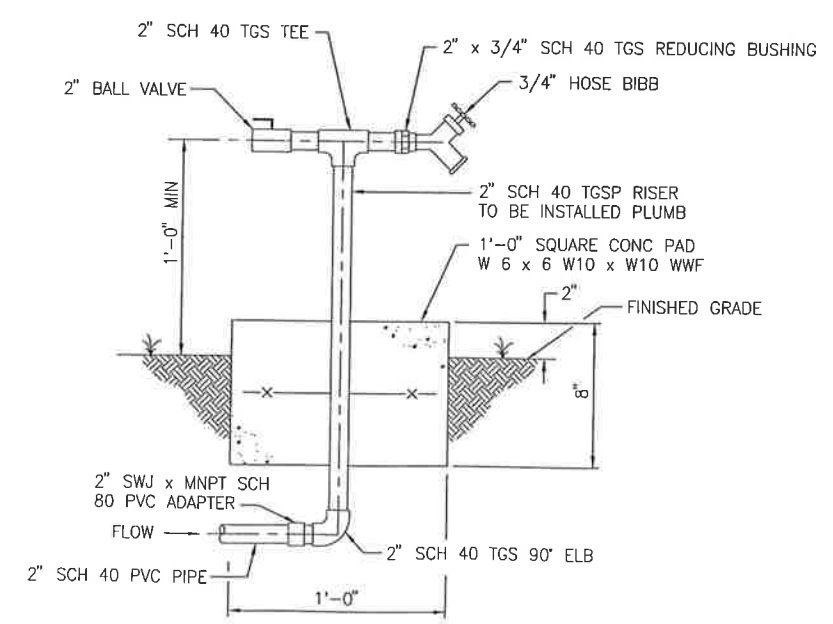
TYPICAL POTABLE WATER SERVICE LINE CONNECTION
NTS



POTABLE WATER SERVICE LINE METER ASSEMBLY DETAIL
NTS



REDUCED PRESSURE BACKFLOW PREVENTER
NTS



TYPICAL HOSE BIBB DETAIL
NTS

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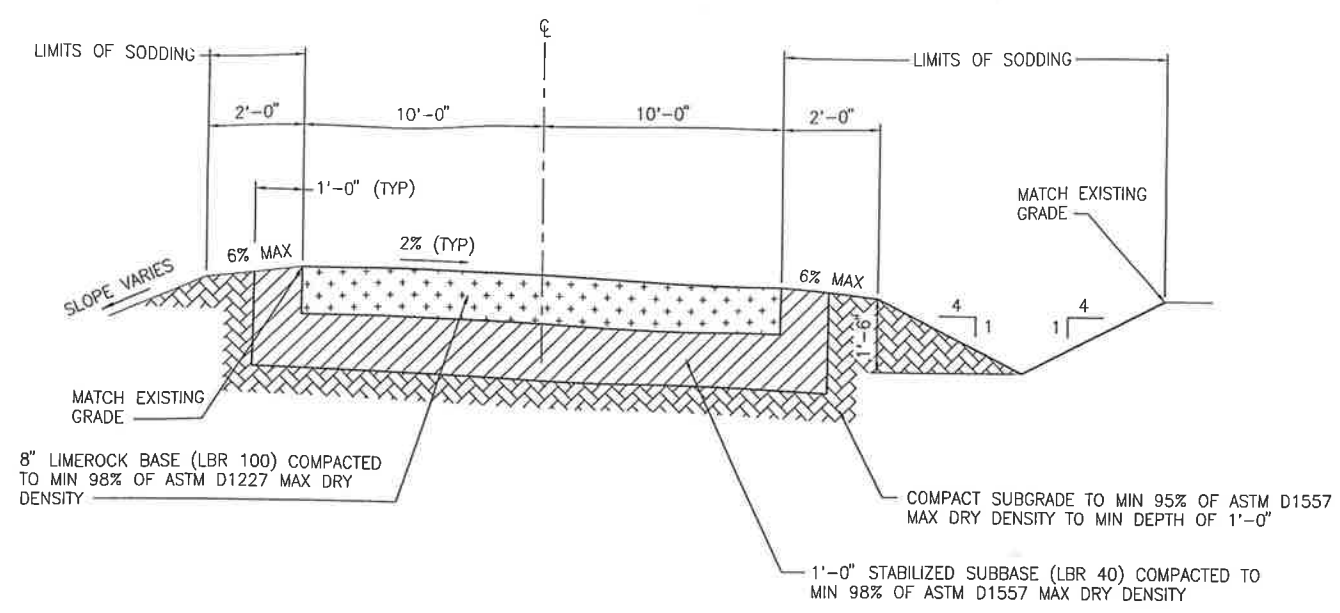
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BY	JOHN H. HORVATH
APPROD.	PROJECT ENGINEER

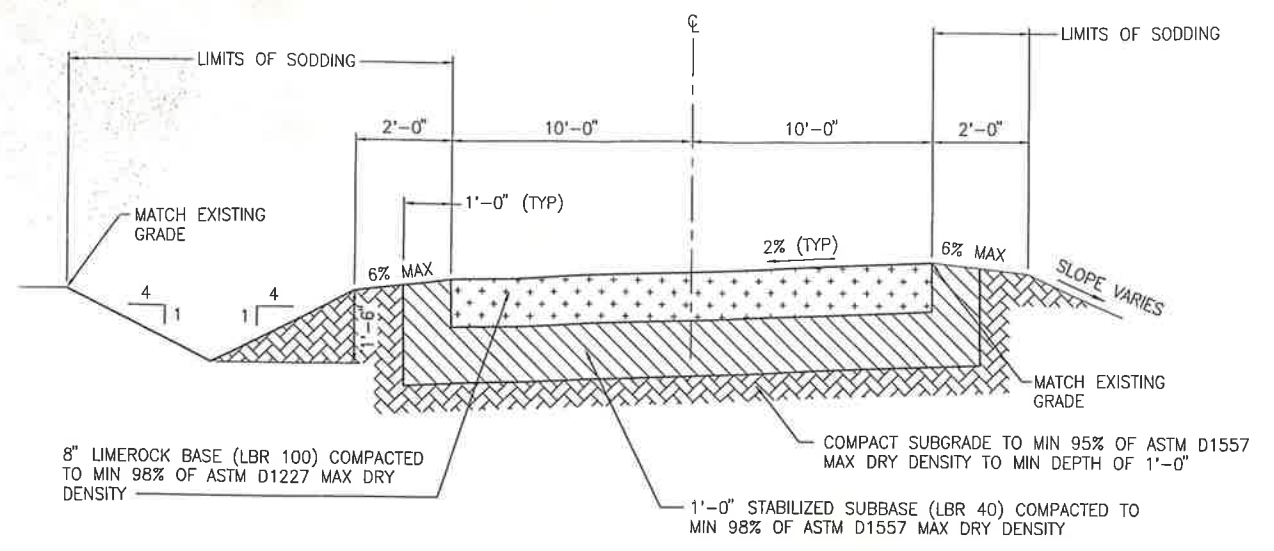
TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

DETAILS

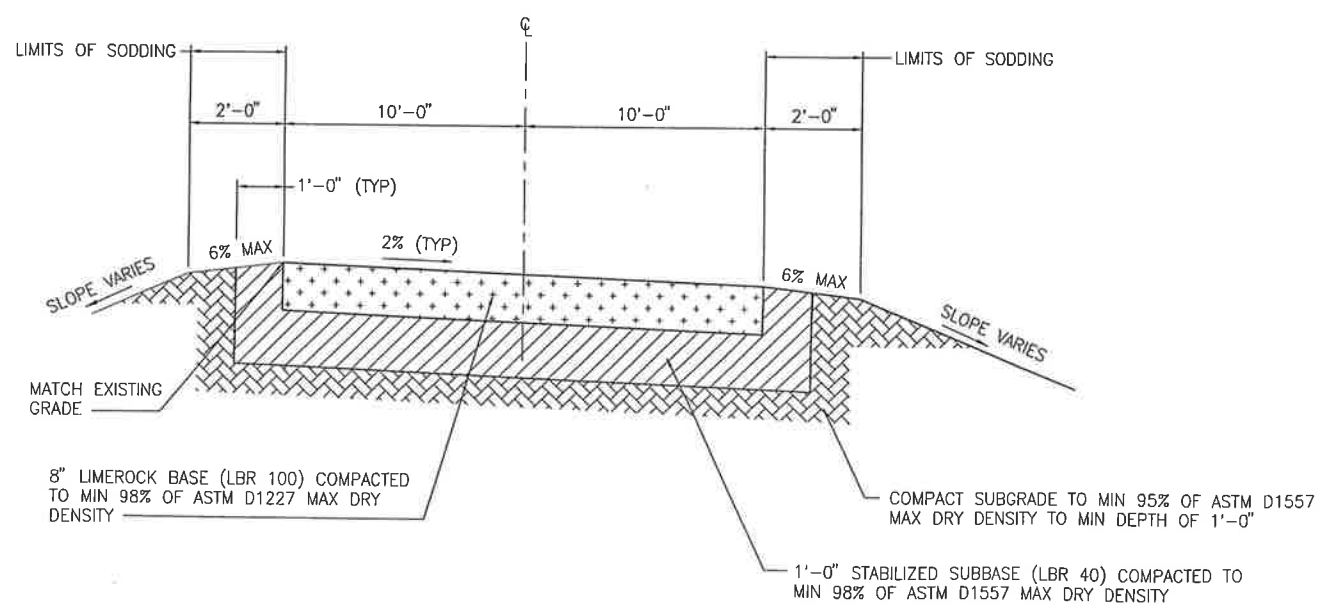
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JOHN H. HORVATH P.E. # 47093	SCALE AS NOTED	DWG. NO. 1-C32



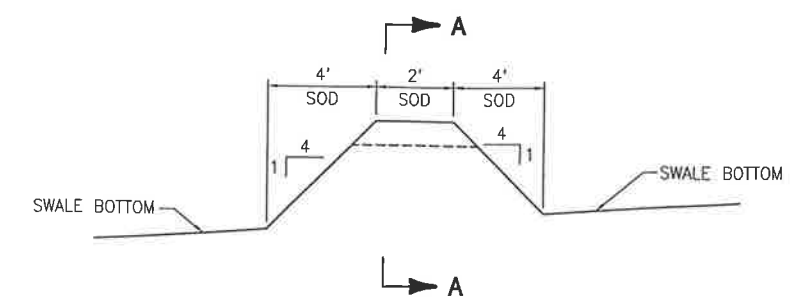
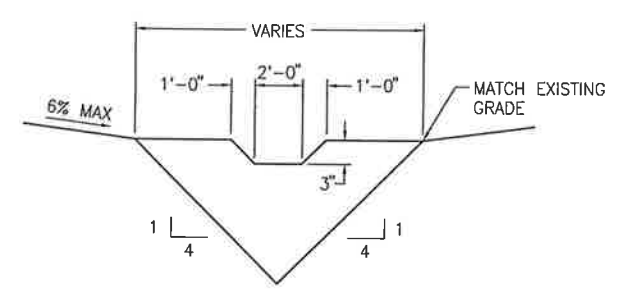
SECTION A
NTS 1-C20 | 1-C33



SECTION B
NTS 1-C20 | 1-C33



SECTION C
NTS 1-C21 | 1-C33



DITCH BLOCK DETAIL 1
NTS 1-C20 | 1-C33

- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe

Sheet Forty One of Sixty
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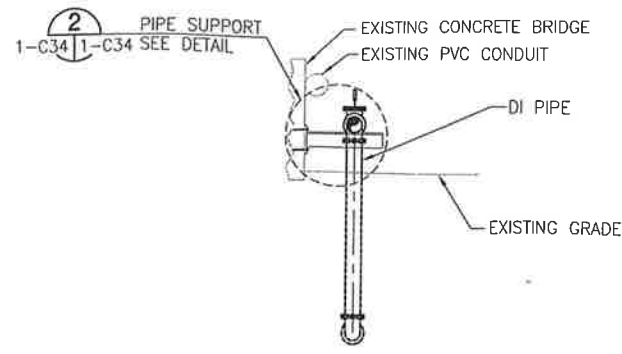
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APPROVED	PROJECT ENGINEER

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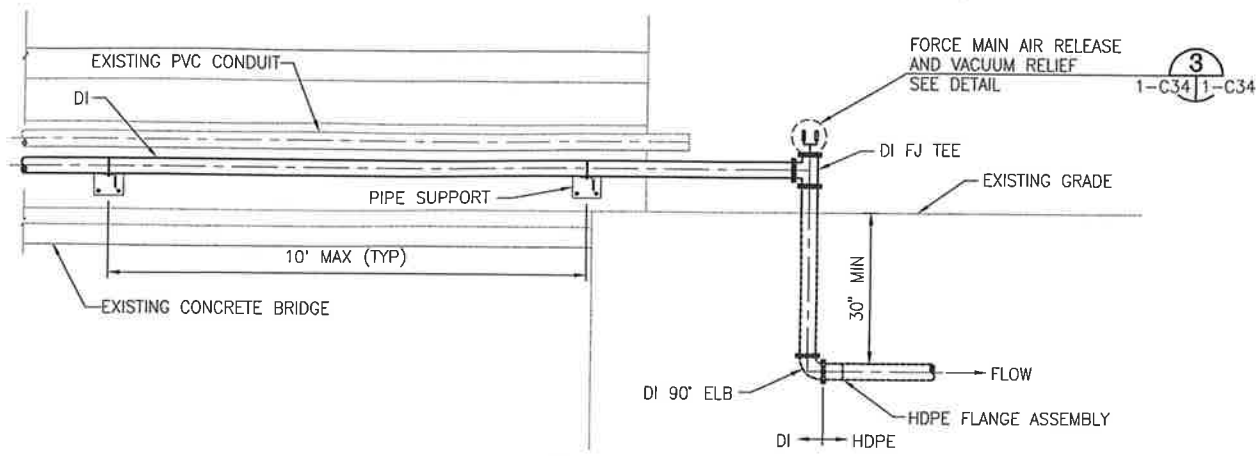
**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**WWTP ACCESS ROAD
SECTIONS AND DETAILS**

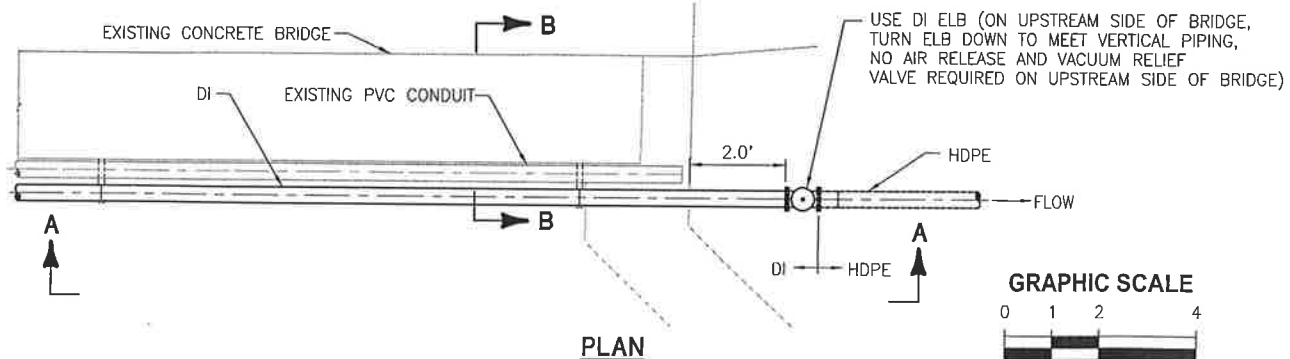
JEA CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED FOR JEA BY	APR 2004	20450-001-03
JOHN H. HORVATH	SCALE	DWG. NO.
P.E. # 47093	AS NOTED	1-C33



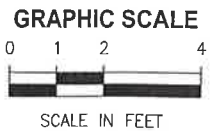
SECTION B-B



SECTION A-A

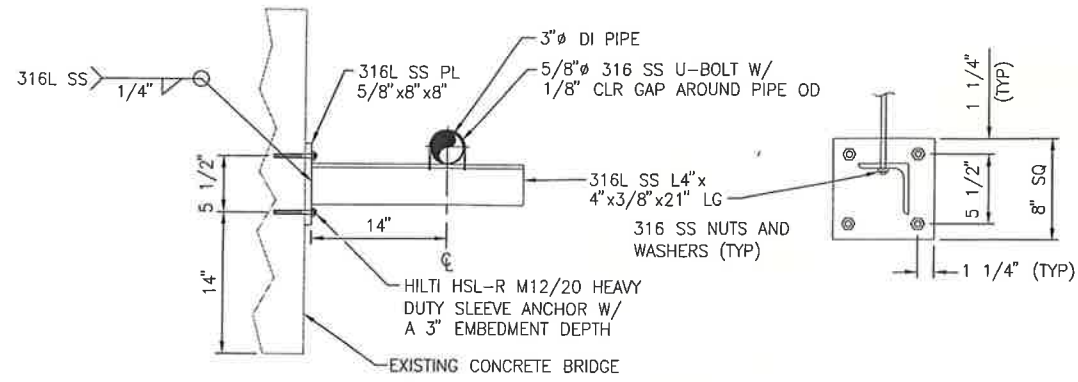


PLAN



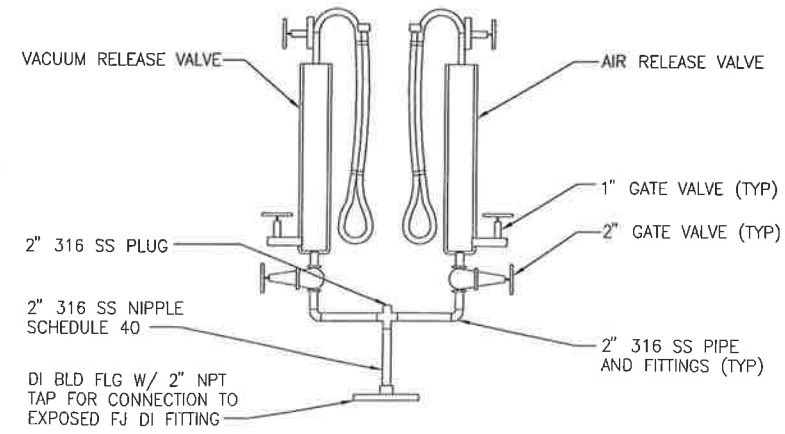
NOTE:
DI PIPE AND FITTINGS SIZE SHALL BE SAME AS CONNECTING
HDPE PIPE AND FITTINGS.

BRIDGE CROSSING DETAIL 1
1"=2' 1-C05, 1-C12 1-C34
1-C06, 1-C10,



PIPE SUPPORT DETAIL 2
NTS 1-C34 1-C34

Legend:
 = sewer pump
 = sewer valve
 = clean out
(M) = measured
--- = pipe



COMBINATION AIR RELEASE AND
VACUUM RELIEF VALVES (SEWAGE) 3
NTS 1-C34, 2-C06 1-C34

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Sheet Forty Two of Sixty
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LTR.	DATE	REVISIONS	BY	APPRD.

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PROJECT ENGINEER	

CONSULTING ENGINEERS AND SCIENTISTS
 700 Northeast Waldo Road/Cocoa, Florida 32941 / (321) 377-5021

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
P.E. #	SCALE AS NOTED	DWG. NO. 1-C34

NOTES:

- METER/DISCONNECT AND CONTROL PANEL LOCATION SHALL BE AS SHOWN ON THE PLAN.
- PROVIDE A MECHANICAL INTERLOCK ON DEAD FRONT PANEL TO ALLOW ONLY ONE BREAKER TO BE IN THE "ON" POSITION AT A TIME AND BOTH BREAKERS TO BE IN THE "OFF" POSITION.
- PROVIDE A TRANSIENT VOLTAGE SURGE SUPPRESSER (TVSS) ON THE LOAD SIDE OF THE MAIN CIRCUIT BREAKER. TVSS SHALL BE AN ADVANCED PROTECTION TECHNOLOGIES TE/4XF OR APPROVED EQUAL.
- AUXILIARY POWER RECEPTACLE (APR) SHALL BE AN APPLETON AR 20044 WITH AJA 200 ADAPTER, NO SUBSTITUTION.
- FOR SUBMERSIBLE PUMPS, IMMERSIBLE POWER AND CONTROL CABLES, SIZED PER IPECA, SHALL BE FURNISHED BY THE PUMP MANUFACTURER. PROVIDE STRAIN RELIEF FITTINGS ON CONDUIT END IN WET WELL.
- THE PUMP CONTROL PANEL ENCLOSURE SHALL BE GASKETED NEMA 3R STAINLESS STEEL FITTED WITH A 3 POINT LOCKABLE LATCH AND DEAD FRONT PANEL. ALL CONNECTIONS TO THE STATION SHALL BE INTRINSICALLY SAFE AND THE PANEL SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: (SEE SPECIFICATIONS SECTION 02535, FOR ADDITIONAL REQUIREMENTS)
 - THERMAL MAGNETIC CIRCUIT BREAKERS INDICATED.
 - NEMA RATED COMBINATION STARTERS FOR EACH PUMP.
 - DUPLEX PUMP CONTROL SYSTEM (SEE SPECIFICATION SECTION 02535, PACKAGED LIFT STATIONS)
 - TRANSIENT VOLTAGE SURGE SUPPRESSOR.
 - RUN TIME METER FOR EACH PUMP.
 - HAND-OFF-AUTO SELECTOR SWITCH FOR EACH PUMP.
 - PUMP 1-PUMP 2-ALTERNATE SELECTOR SWITCH FOR ALTERNATOR.
 - GREEN PUMP STOP, RED PUMP RUN LIGHTS FOR EACH PUMP.
 - PHASE MONITOR
 - ALARM LIGHT AND BELL WITH SILENCE SWITCH.
 - CONTROL SYSTEM SHALL BE 120 VOLT.
 - TYPE GFCI 20 AMP, 125 VOLT DUPLEX RECEPTACLE.
- PROVIDE A SPARE ALTERNATOR RELAY AND A SPARE PHASE MONITOR, FOR EACH STATION.
- THE CONTROL PANEL INTEGRATED INTERRUPT RATING SHALL BE EQUAL TO THE AVAILABLE FAULT CIRCUIT CURRENT AT THE POINT OF INSTALLATION WITH A MINIMUM OF 10,000 RMS SYMMETRICAL AMPS.
- CONDUCTORS SHALL BE TYPE THW INSULATED COPPER.
- CONDUIT SHALL BE RIGID GALVANIZED STEEL, AND BE PVC COATED ABOVE GRADE, UNLESS OTHERWISE INDICATED.
- GROUND ALL ENCLOSURES AND EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- ALL COMPONENTS SHALL BE SIZED PER NATIONAL ELECTRICAL CODE.
- COORDINATE THE ELECTRICAL INSTALLATION WITH THE POWER COMPANY PRIOR TO BEGINNING WORK.
- CONDUIT CONNECTIONS TO METER, SAFETY SWITCH AND CONTROL PANEL SHALL UTILIZE WATERTIGHT HUBS. MINIMUM DISTANCE BETWEEN FRONT OF METER AND FENCE OR GROUNDED COMPONENT SHALL BE 4 FEET.
- MAIN SERVICE, SEE PLAN FOR ACTUAL ORIENTATION. UTILIZE LONG RADIUS BENDS.
- PROVIDE A TYPE GUB EXPLOSION PROOF JUNCTION BOX, 18-7/8" x20-7/8" x11-3/8" MIN BELOW CONTROL PANEL. MAKE CONNECTIONS OF IMMERSIBLE CABLES TO PANEL WIRING IN JUNCTION BOX USING TERMINAL BLOCKS DESIGNED TO ELIMINATE THE POSSIBILITY OF ACCIDENTAL ARCING BETWEEN TERMINALS. PROVIDE SEPARATE TERMINAL BLOCKS FOR POWER AND CONTROL.

PUMP STATION - ELECTRICAL SCHEDULE

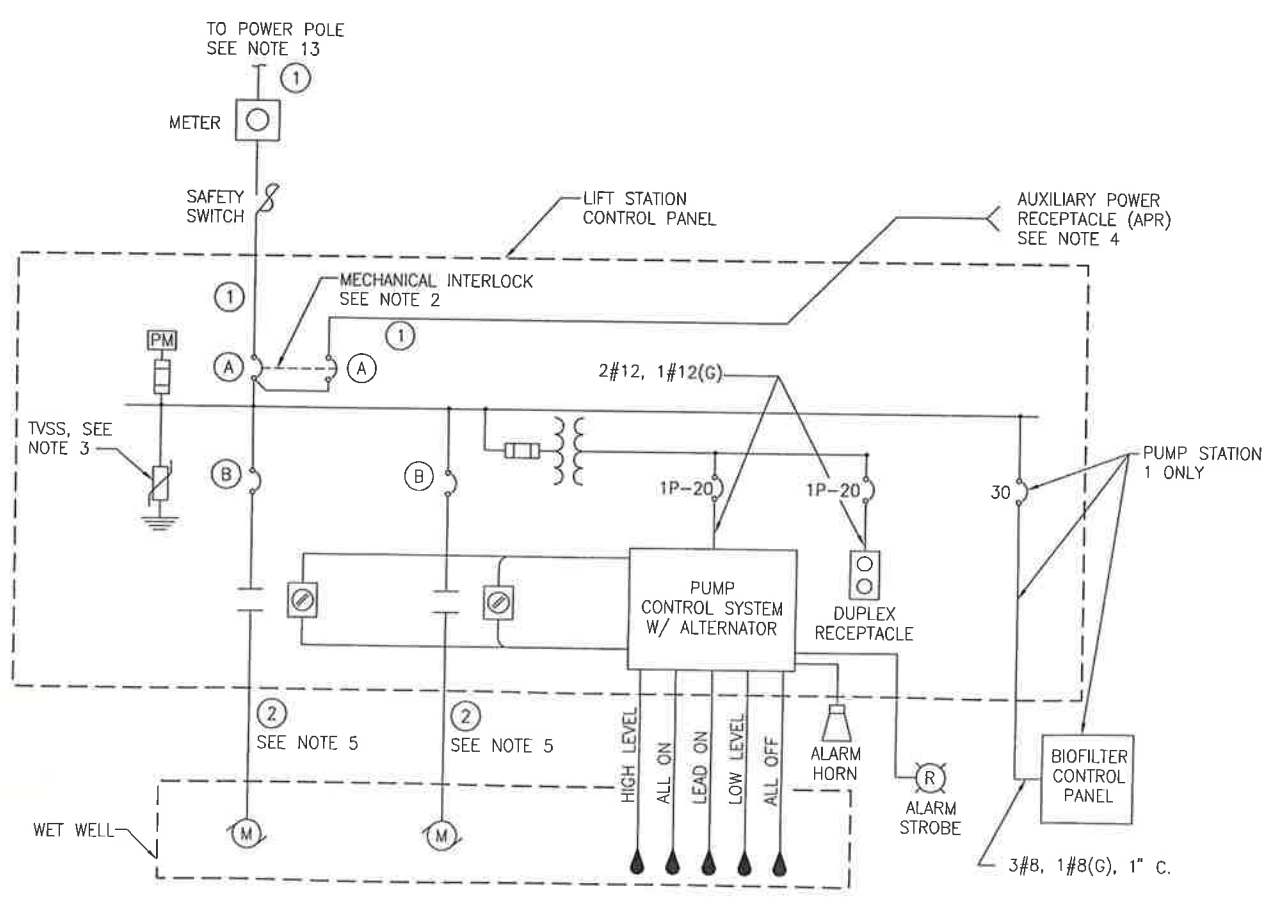
WASTEWATER TRANSFER PUMP STATION	PUMP HP	STARTER	277/480V, 3 PHASE 4 WIRE			
			3 POLE BKRS		CIRCUIT	
			A	B	①	②
1	20	FVNR	90	50	4 #2, 1 #6(G), 1 1/2" C	SEE NOTE 5 (2" C. MIN.)
2	10	FVNR	50	25	4 #8, 1 #8(G), 1" C	SEE NOTE 5 (2" C. MIN.)

FVNR = FULL VOLTAGE NON-REVERSING

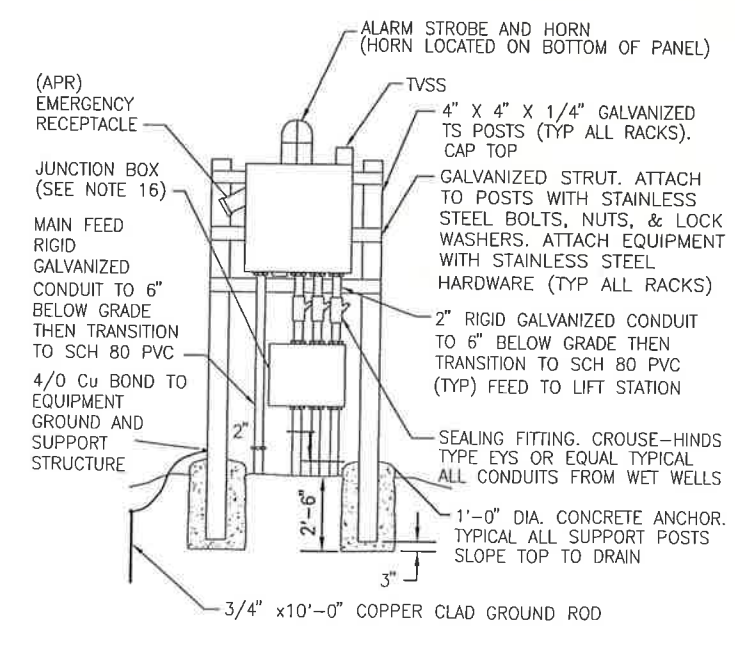
LEGEND

- MOTOR
- FUSE
- SURGE SUPPRESSER
- CIRCUIT BREAKER (TRIP AMPS INDICATED) 3 POLE UNLESS OTHERWISE INDICATED
- COMBINATION MOTOR STARTER WITH THERMAL MAGNETIC CIRCUIT BREAKER.
- CONTROL POWER TRANSFORMER (AS REQUIRED)
- SELECTOR SWITCH, HAND-OFF-AUTO (HOA) UNLESS OTHERWISE INDICATED
- FUSIBLE SAFETY SWITCH
- PHASE MONITOR

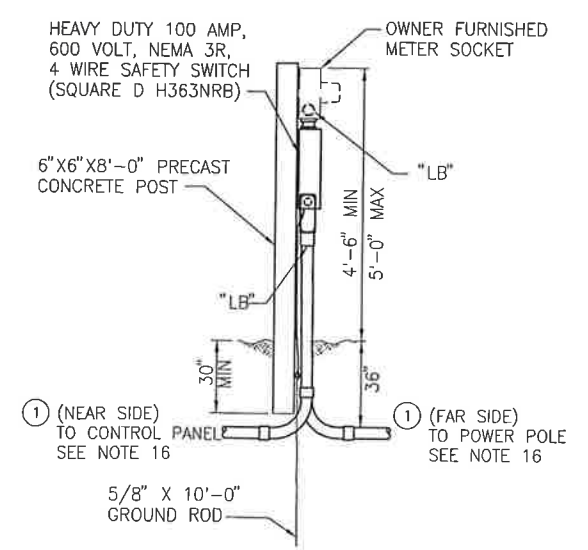
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ONE-LINE DIAGRAM
NTS



CONTROL PANEL DETAIL ①
NTS 1-C22, 1-C24 1-E01



METER/DISCONNECT DETAIL ②
NTS 1-C22, 1-C24 1-E01

Sheet Forty Three of Sixty
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DESIGNED	SJC
DRAWN	DGP
CHECKED	CEW
BY	STEPHEN J. CONWAY
APPROD.	PROJECT ENGINEER

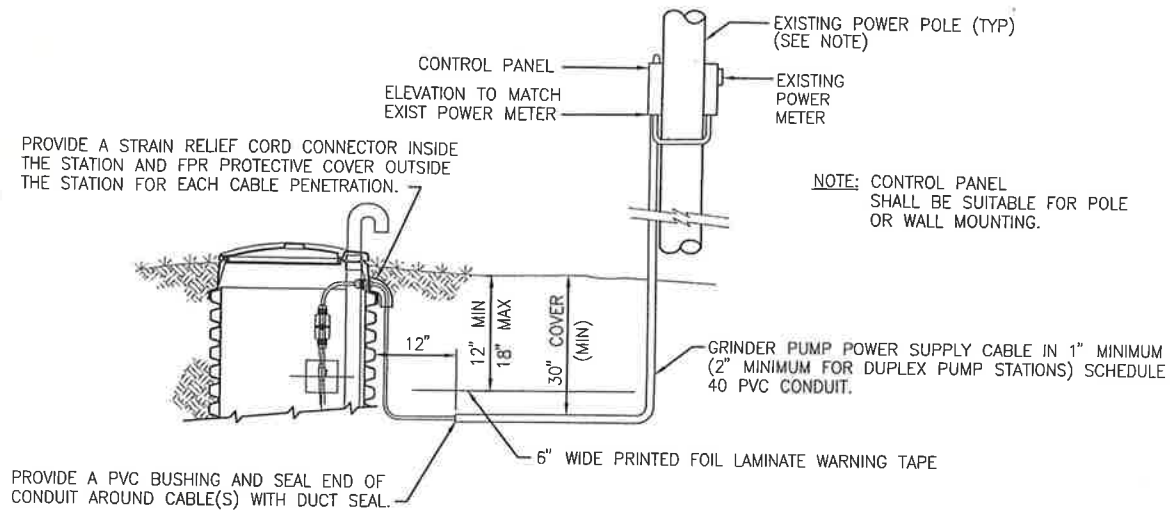
Jones Edmunds & Associates, Inc. JEA
 CONSULTING ENGINEERS AND SCIENTISTS
 270 Northeast Walden Road/Casselville, Florida 32641 / (352) 577-5821

**TAYLOR COASTAL CENTRALIZED
 WASTEWATER SYSTEM PHASE I
 TAYLOR COUNTY, FLORIDA**

**PUMP STATION
 ELECTRICAL DETAILS**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
STEPHEN J. CONWAY P.E. # 53532	SCALE AS NOTED	DWG. NO. 1-E01

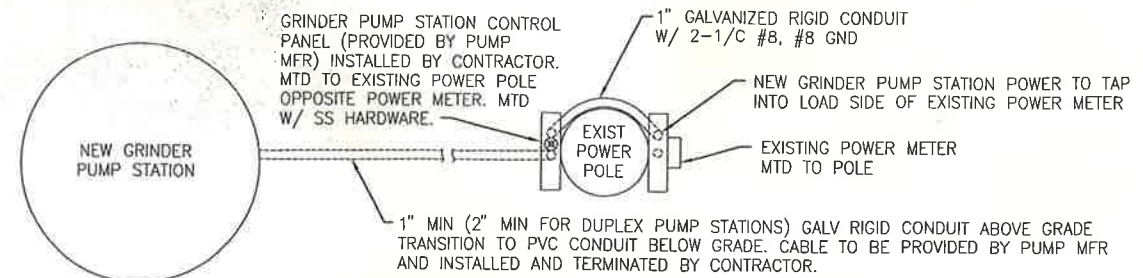
Legend:
 = sewer pump
 = sewer valve
 = clean out
(M) = measured
--- = pipe



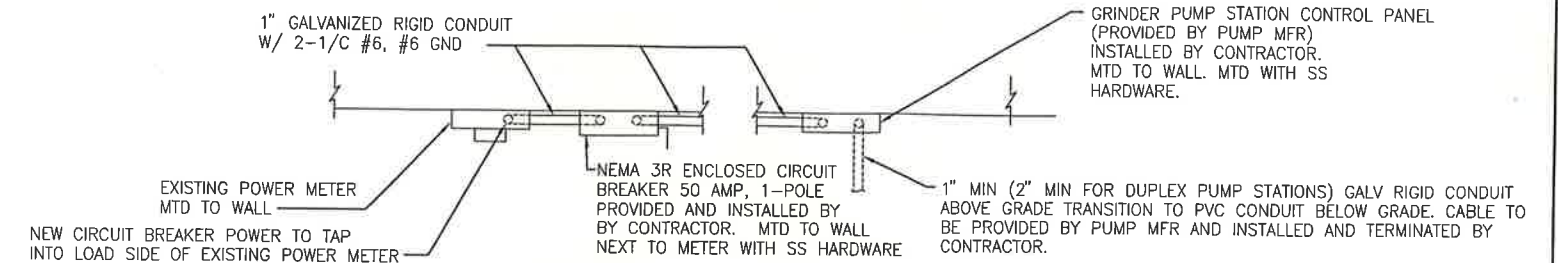
TYPICAL GRINDER PUMP STATION ELECTRICAL INSTALLATION

NTS

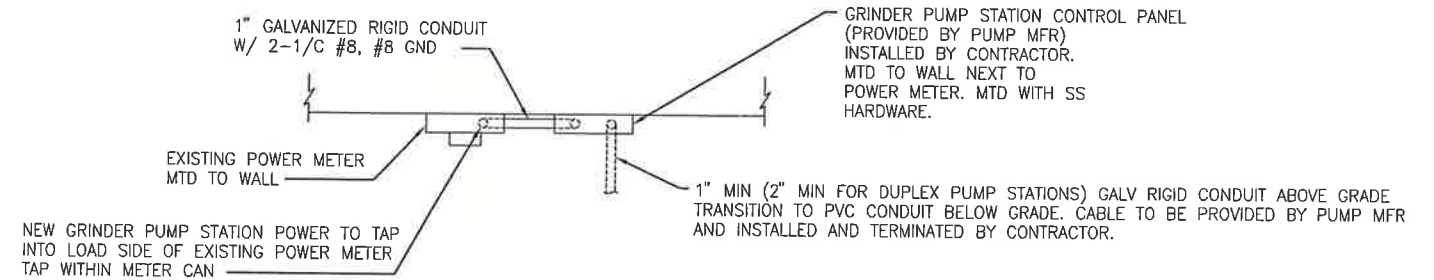
NOTE: CONTROL PANEL SHALL BE SUITABLE FOR POLE OR WALL MOUNTING.



POLE MOUNTED



WALL MOUNTED - WITH CONTROL PANEL NOT WITHIN LINE OF SIGHT OR MORE THAN 10' FROM METER



WALL MOUNTED - WITH CONTROL PANEL WITHIN LINE OF SIGHT AND 10' OF METER

GRINDER PUMP STATION CONTROL PANEL ELECTRICAL PLAN

NTS

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Sheet Forty Four of Sixty
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BY	STEPHEN J. CONWAY
APPRD	PROJECT ENGINEER

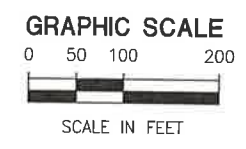
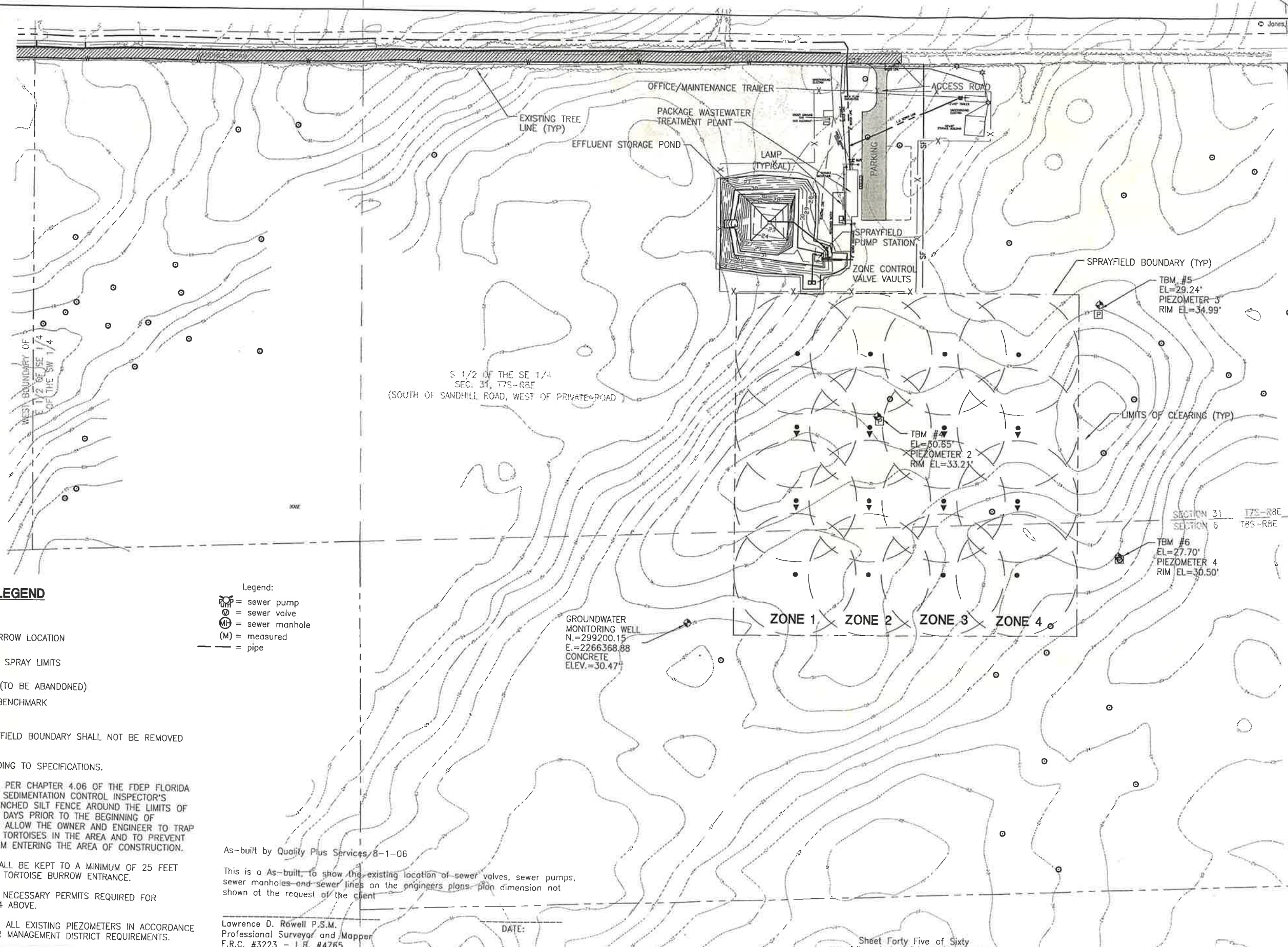
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TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

GRINDER PUMP STATION ELECTRICAL DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
STEPHEN J. CONWAY P.E. # 53532	SCALE AS NOTED	DWG. NO. 1-E02



LEGEND

- PROPERTY LINE
- GOPHER TORTOISE BURROW LOCATION
- ⊙ SPRINKLER HEAD WITH SPRAY LIMITS
- ⊠ EXISTING PIEZOMETER (TO BE ABANDONED)
- ⊕ EXISTING TEMPORARY BENCHMARK

- Legend:
- ⊕ = sewer pump
 - ⊙ = sewer valve
 - ⊠ = sewer manhole
 - (M) = measured
 - = pipe

- NOTES:**
1. TOP SOIL WITHIN THE SPRAYFIELD BOUNDARY SHALL NOT BE REMOVED FROM THE SPRAYFIELD SITE.
 2. SEED AND SOD SITE ACCORDING TO SPECIFICATIONS.
 3. CONTRACTOR SHALL INSTALL, PER CHAPTER 4.06 OF THE FDEP FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, A PROPERLY ENTRENCHED SILT FENCE AROUND THE LIMITS OF CONSTRUCTION AT LEAST 28 DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION IN ORDER TO ALLOW THE OWNER AND ENGINEER TO TRAP AND RELOCATE ANY GOPHER TORTOISES IN THE AREA AND TO PREVENT ANY GOPHER TORTOISES FROM ENTERING THE AREA OF CONSTRUCTION.
 4. CONSTRUCTION ACTIVITIES SHALL BE KEPT TO A MINIMUM OF 25 FEET FROM ANY FLAGGED GOPHER TORTOISE BURROW ENTRANCE.
 5. CONTRACTOR SHALL GET ALL NECESSARY PERMITS REQUIRED FOR ACTIVITIES IN NOTES 3 AND 4 ABOVE.
 6. CONTRACTOR SHALL ABANDON ALL EXISTING PIEZOMETERS IN ACCORDANCE WITH SUWANNEE RIVER WATER MANAGEMENT DISTRICT REQUIREMENTS.

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

Sheet Forty Five of Sixty
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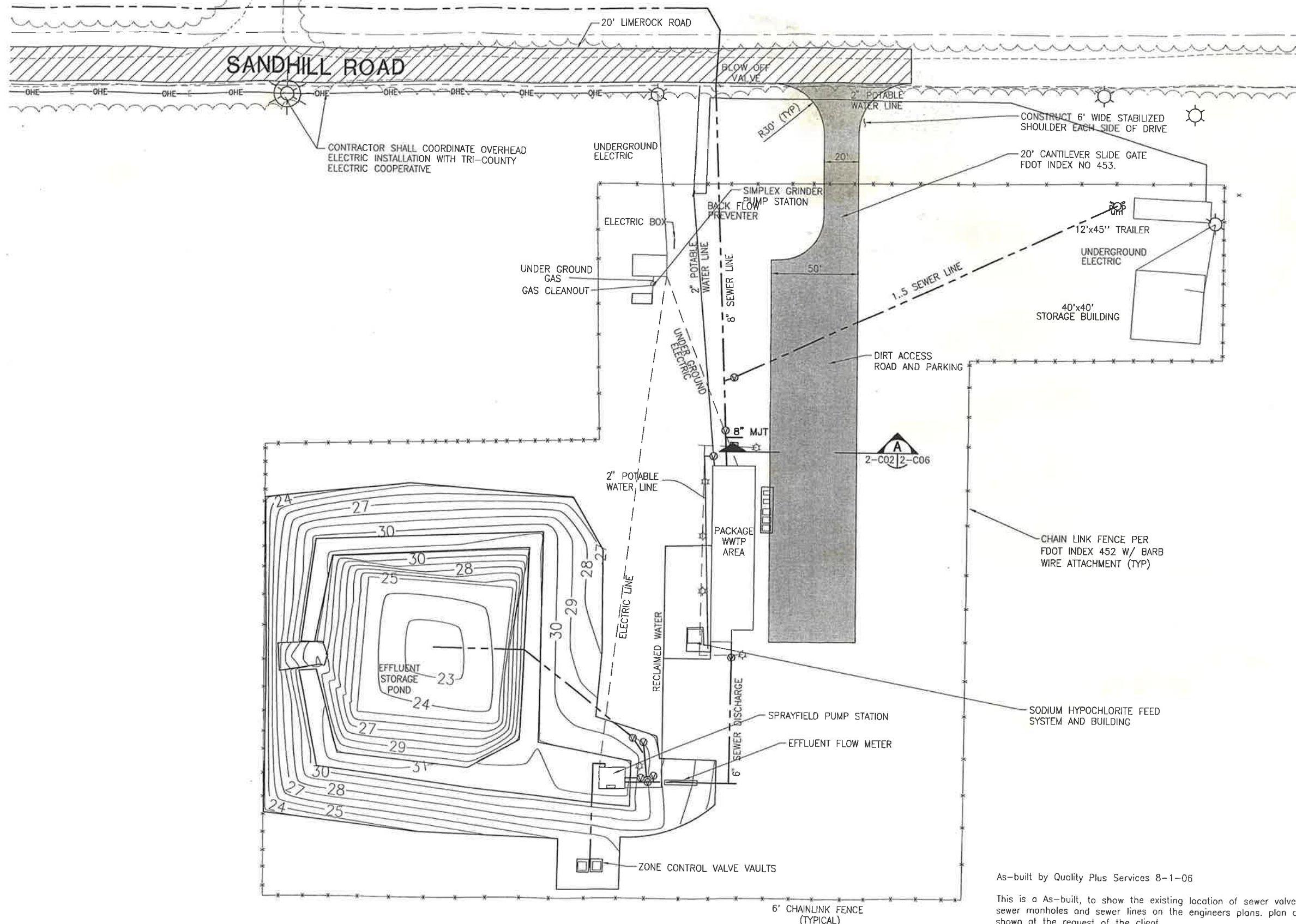
DESIGNED LAE/FLG
DRAWN TA
CHECKED JHH
PROJECT ENGINEER JOHN H. HORVATH

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CONSULTING ENGINEERS AND SCIENTISTS
270 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-3001

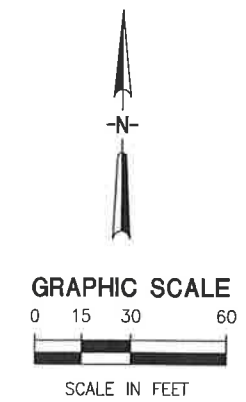
TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

GENERAL SITE LAYOUT

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1" = 100'	DWG. NO. 2-C01



- Legend:
- = sewer pump
 - = sewer valve
 - = clean out
 - (M) = measured
 - = pipe
 - = pipe



As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

Sheet Forty Six of Sixty
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DESIGNED	LAE/FLG			
DRAWN	TA			
CHECKED	JHH			
PROJECT ENGINEER	JOHN H. HORVATH			
LTR.	DATE	REVISIONS	BY	APPRD.

CONSULTING ENGINEERS AND SCIENTISTS
 739 Northeast Valdo Road/Gainesville, Florida 32641 / (352) 577-5521

**TAYLOR COASTAL CENTRALIZED
 WASTEWATER SYSTEM PHASE I
 TAYLOR COUNTY, FLORIDA**

**WASTEWATER TREATMENT PLANT
 AND EFFLUENT STORAGE POND
 PAVING AND GRADING PLAN**

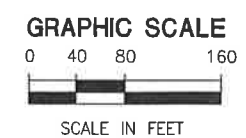
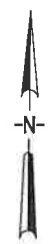
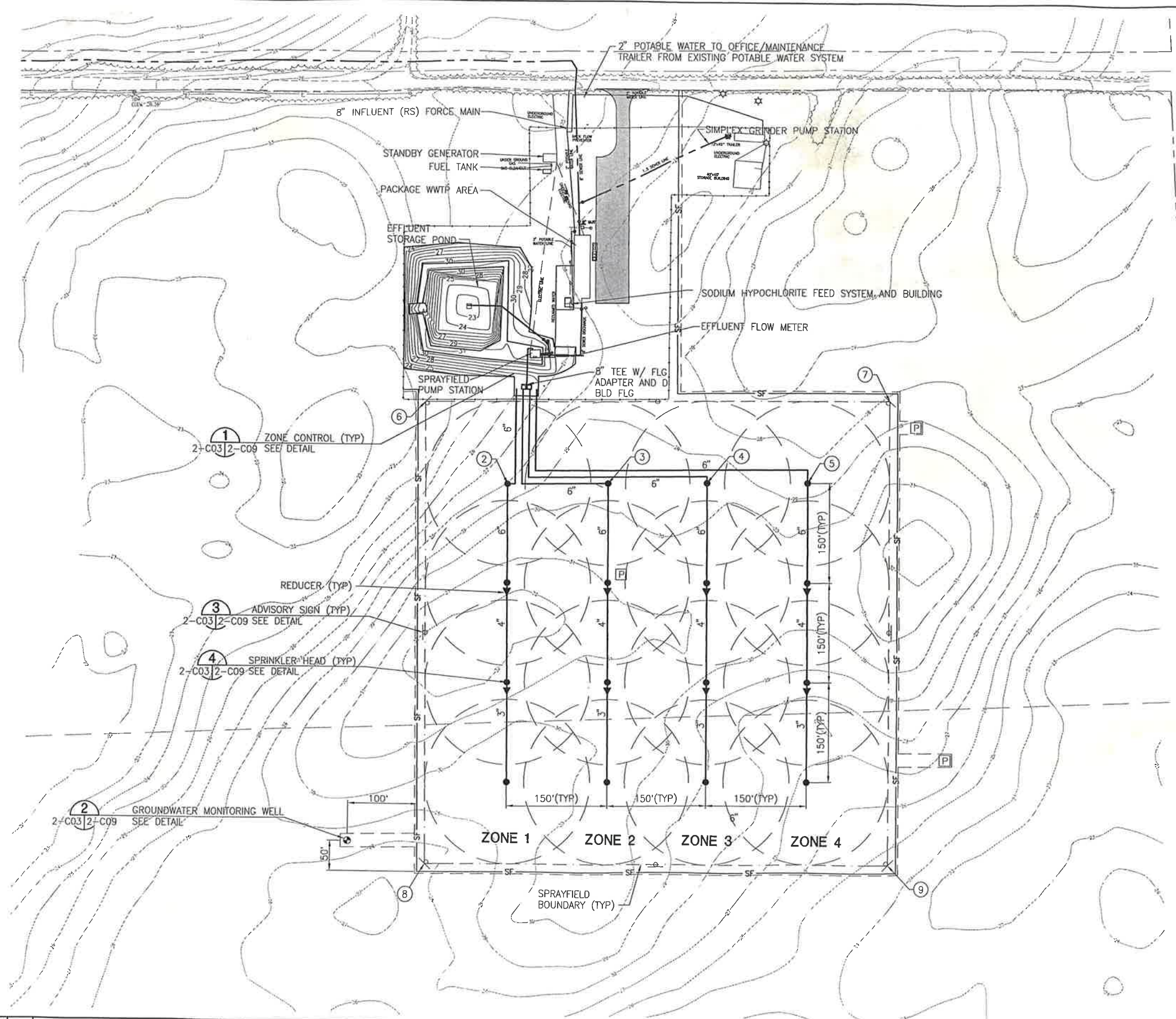
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JOHN H. HORVATH P.E. # 47093	SCALE 1"=30'	DWG. NO. 2-C02

As-built by Quality Plus Services 8-1-06

This is an As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:



LEGEND

- Legend:
- PROPERTY LINE
 - LIMITS OF CLEARING
 - SPRAYFIELD BOUNDARY
 - ELECTRIC EASEMENT
 - SPRINKLER HEAD WITH SPRAY LIMITS
 - SPRINKLER PIPE WITH REDUCER
 - EXISTING TREE LINE
 - PROPOSED MONITOR WELL
 - EXISTING PIEZOMETER
 - ASPHALT PAVING
 - sewer pump
 - sewer valve
 - clean out
 - measured
 - pipe

NOTE:

1. AFTER CLEARING AND GRUBBING AND PRIOR TO SEEDING THE SPRAYFIELD SITE, THE SPRAYFIELD SITE SHALL BE GRADED SO THAT THE MAXIMUM CHANGE IN GRADE IN ANY DIRECTION IS LESS THAN 5%.
2. TOP SOIL WITHIN THE SPRAYFIELD BOUNDARY SHALL NOT BE REMOVED FROM THE SPRAYFIELD.
3. ALL BURIED SPRAYFIELD PIPING SHALL BE HDPE SDR 17 DIPS.
4. ALL REQUIRED REDUCERS, TEES, AND FITTINGS ARE NOT SHOWN FOR CONNECTION TO SPRINKLER HEADS. SEE TYPICAL SPRINKLER HEAD INSTALLATION DETAIL 2-C03/2-C08.
5. SEE DETAIL ON DRAWING 1-C29 FOR TYPICAL TRENCH DETAIL FOR INSTALLING PIPE.
6. SILT FENCING SHALL BE INSTALLED PER FDOT INDEX 102.

Sheet Forty Seven of Sixty
none of these sheets shall be considered complete without the others

02/09/04 14:59 kfm 20450001-2-c03.dwg

DESIGNED	LAE/FLG
DRAWN	TA
CHECKED	JHH
PROJECT ENGINEER	JOHN H. HORVATH

JEA CONSULTING ENGINEERS AND SCIENTISTS
730 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5511

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**WASTEWATER TREATMENT PLANT
AND SPRAYFIELD MAJOR
YARD PIPING PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED FOR JEA BY	APR 2004	20450-001-03
JOHN H. HORVATH	SCALE	DWG. NO.
P.E. # 47093	1"=80'	2-C03






As-built by Quality Plus Services 8-1-06

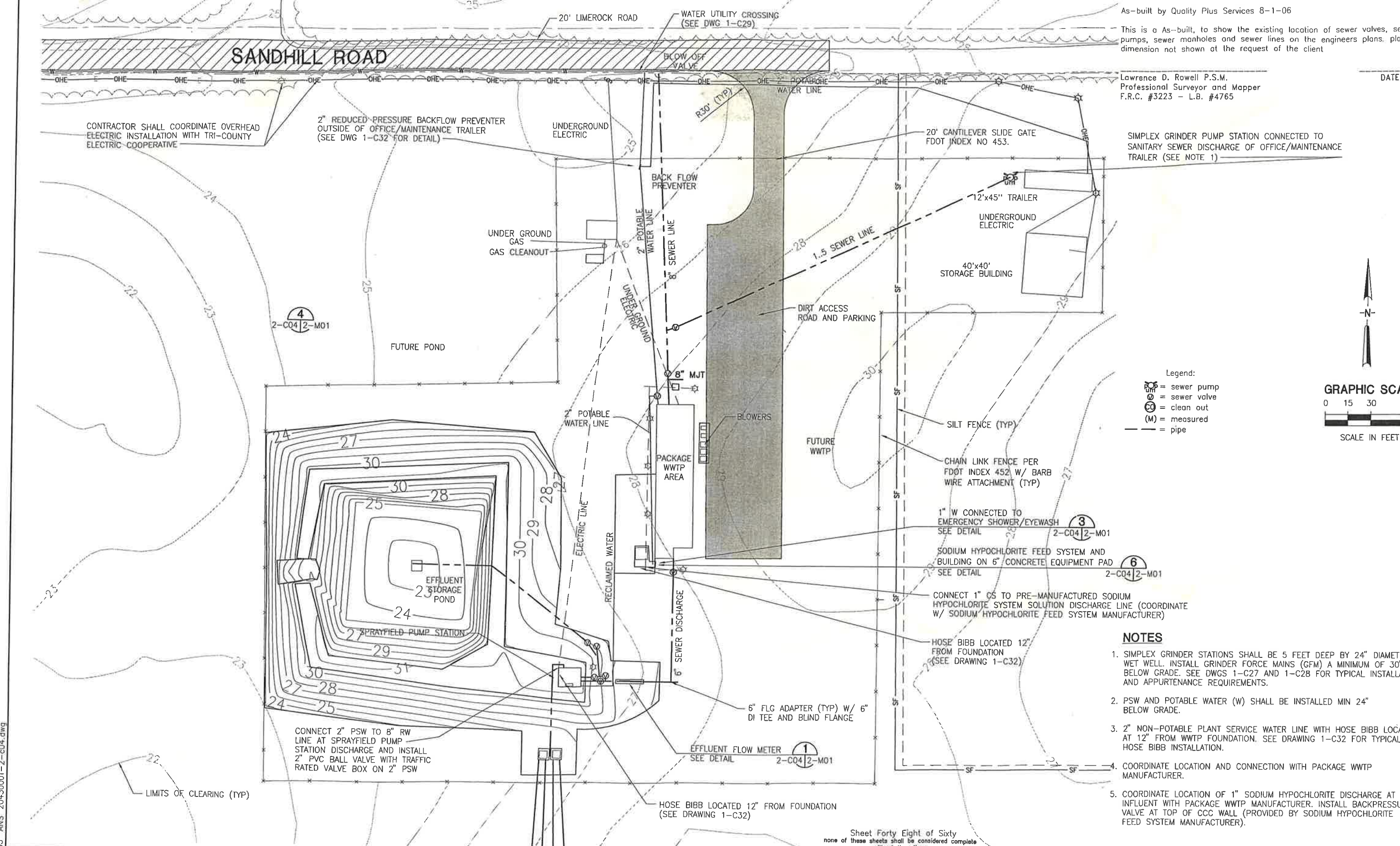
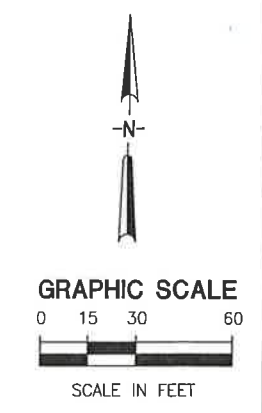
This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

SIMPLEX GRINDER PUMP STATION CONNECTED TO SANITARY SEWER DISCHARGE OF OFFICE/MAINTENANCE TRAILER (SEE NOTE 1)

Legend:
 = sewer pump
 = sewer valve
 = clean out
 (M) = measured
 = pipe



- NOTES**
- SIMPLEX GRINDER STATIONS SHALL BE 5 FEET DEEP BY 24" DIAMETER WET WELL. INSTALL GRINDER FORCE MAINS (GFM) A MINIMUM OF 30" BELOW GRADE. SEE DWGS 1-C27 AND 1-C28 FOR TYPICAL INSTALLATION AND APPURTENANCE REQUIREMENTS.
 - PSW AND POTABLE WATER (W) SHALL BE INSTALLED MIN 24" BELOW GRADE.
 - 2" NON-POTABLE PLANT SERVICE WATER LINE WITH HOSE BIBB LOCATED AT 12" FROM WWTP FOUNDATION. SEE DRAWING 1-C32 FOR TYPICAL HOSE BIBB INSTALLATION.
 - COORDINATE LOCATION AND CONNECTION WITH PACKAGE WWTP MANUFACTURER.
 - COORDINATE LOCATION OF 1" SODIUM HYPOCHLORITE DISCHARGE AT CCC INFLUENT WITH PACKAGE WWTP MANUFACTURER. INSTALL BACKPRESSURE VALVE AT TOP OF CCC WALL (PROVIDED BY SODIUM HYPOCHLORITE FEED SYSTEM MANUFACTURER).

Sheet Forty Eight of Sixty
none of these sheets shall be considered complete without the others

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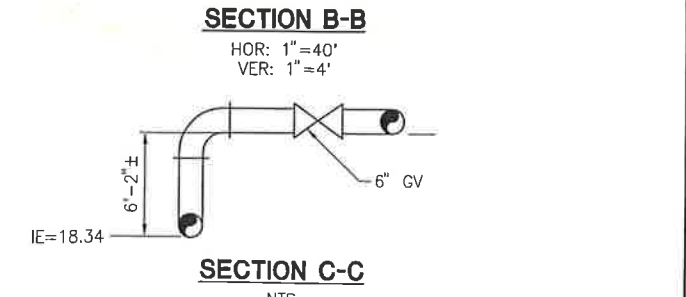
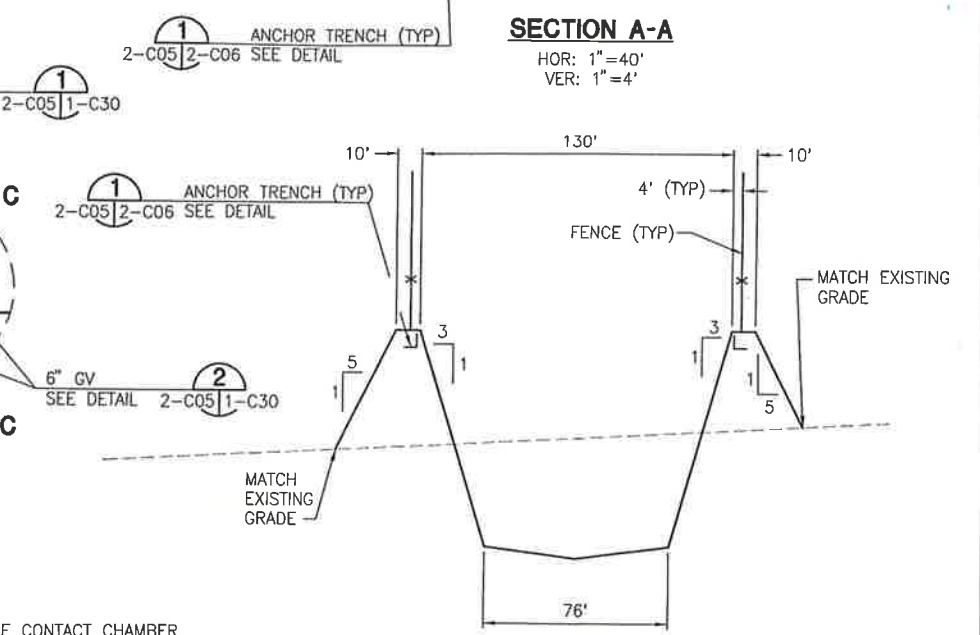
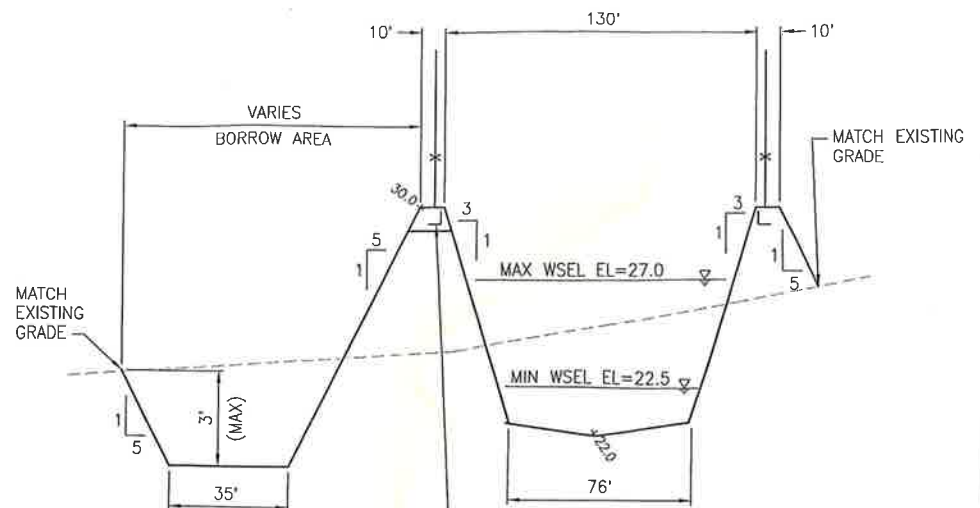
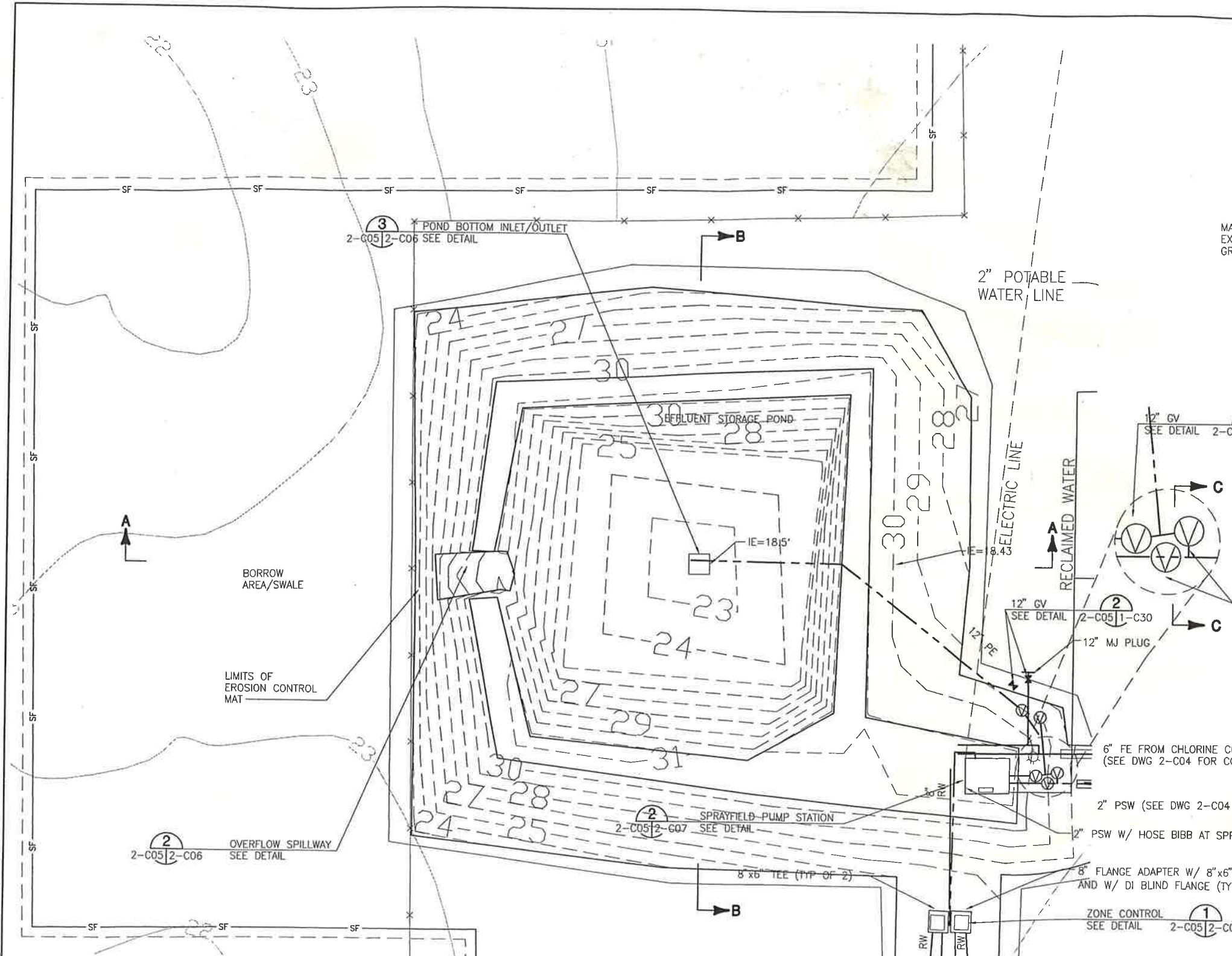
DESIGNED	LAE/FLG
DRAWN	TA
CHECKED	JHH
PROJECT ENGINEER	JOHN H. HORVATH


 CONSULTING ENGINEERS AND SCIENTISTS
739 Northeast Waldo Road/Daltonville, Florida 32541 / (352) 377-5861

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**WASTEWATER TREATMENT PLANT
YARD PIPING PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE 1" = 30'	DWG. NO. 2-C04



- NOTES:**
- CONTRACTOR SHALL INSTALL, PER CHAPTER 4.06 OF THE FDEP FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, A PROPERLY ENTRENCHED SILT FENCE AROUND THE LIMITS OF CONSTRUCTION OF THE PERCOLATION POND AT LEAST 28 DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION IN ORDER TO ALLOW THE OWNER AND ENGINEER TO TRAP AND RELOCATE ANY GOPHER TORTOISES IN THE AREA AND TO PREVENT ANY GOPHER TORTOISES FROM ENTERING THE AREA OF CONSTRUCTION.
 - CONSTRUCTION ACTIVITIES SHALL BE KEPT TO A MINIMUM OF 25 FEET FROM ANY FLAGGED GOPHER TORTOISE BURROW ENTRANCE.
 - CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED FOR ACTIVITIES IN NOTES 1 AND 2 ABOVE.

SEE DWG 2-C03 FOR CONTINUATION OF SPRAYFIELD

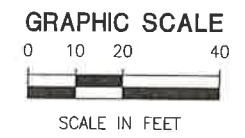
EFFLUENT STORAGE POND
SCALE: 1"=20'

As-built by Quality Plus Services 8-1-06
This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

- Legend:**
- = sewer pump
 - = sewer valve
 - = clean out
 - = measured
 - = pipe



Sheet Forty Nine of Sixty
none of these sheets shall be considered complete without the others

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LTR.	DATE	REVISIONS	BY	APPRD.

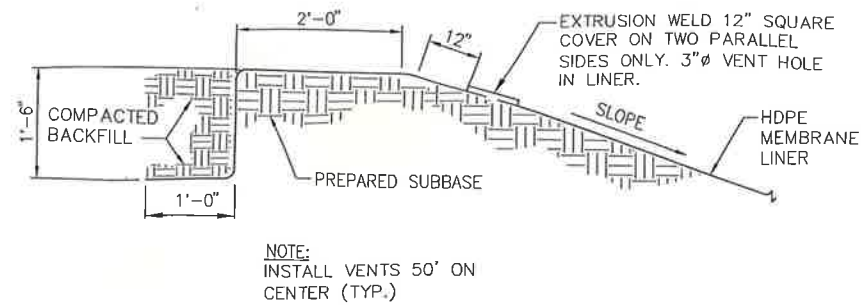
DESIGNED LAE
DRAWN TA
CHECKED JHH
PROJECT ENGINEER JOHN H. HORVATH

CONSULTING ENGINEERS AND SCIENTISTS
 730 Northeast Naldo Road/Gainesville, Florida 32641 / (352) 377-5621

TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

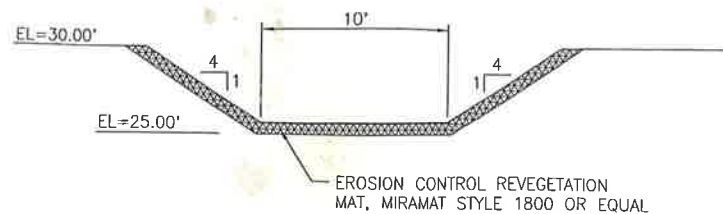
EFFLUENT STORAGE POND PLAN AND SECTIONS AND YARD PIPING

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE AS NOTED	DWG. NO. 2-C05

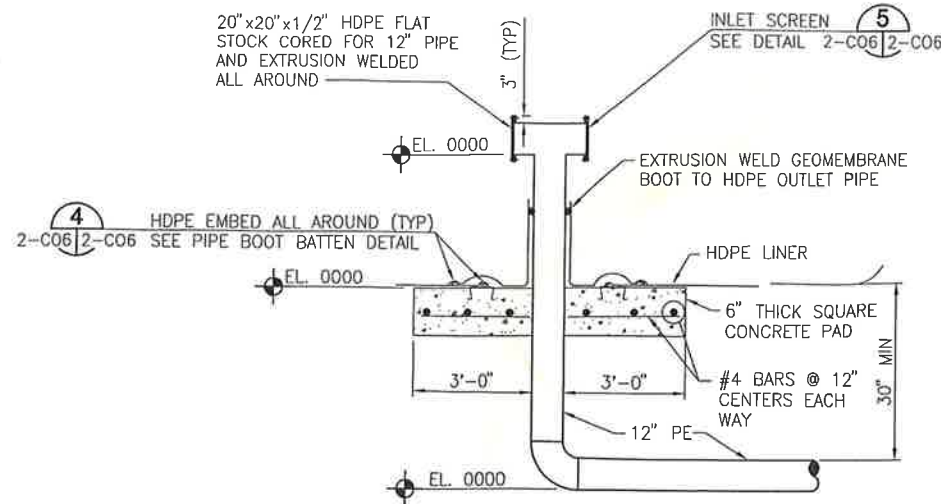


TYPICAL LINER ANCHOR AND VENT DETAIL (1)
NTS 2-C05|2-C06

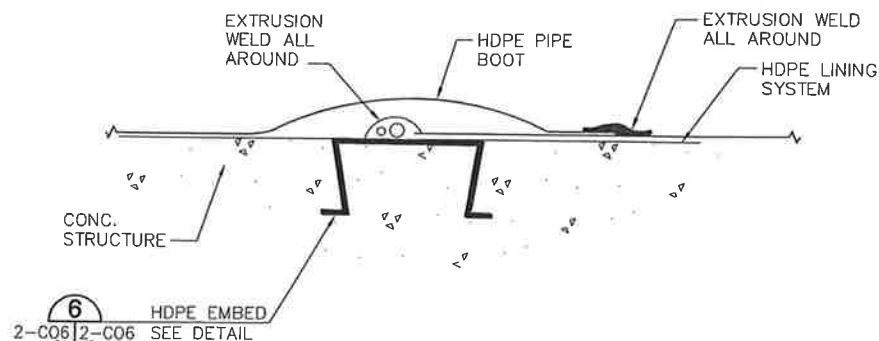
NOTE:
INSTALL VENTS 50' ON CENTER (TYP.)



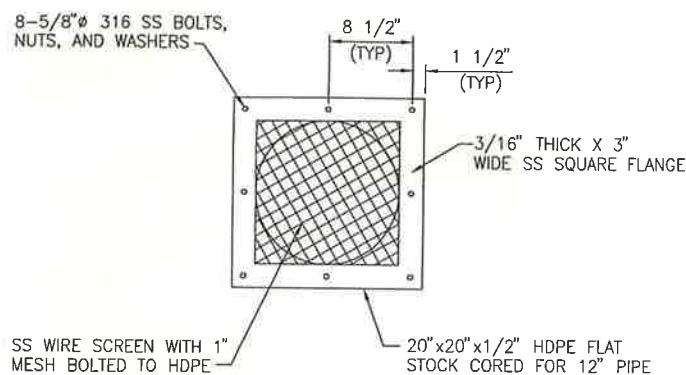
OVERFLOW SPILLWAY (2)
NTS 2-C05|2-C06



POND BOTTOM INLET/OUTLET DETAIL (3)
NTS 2-C05|2-C06

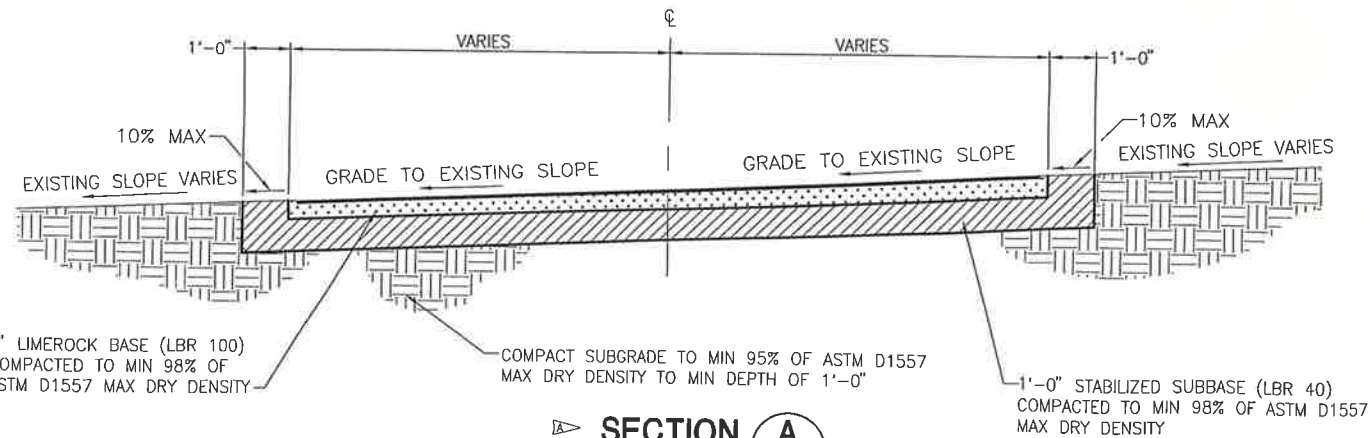


PIPE BOOT BATTEN DETAIL (4)
NTS 2-C06|2-C06

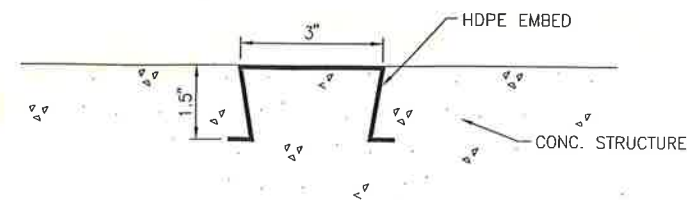


INLET SCREEN DETAIL (5)
NTS 2-C06|2-C06

- Legend:
 = sewer pump
 = sewer valve
 = clean out
(M) = measured
— = pipe



SECTION A
NTS 2-C02|2-C06



HDPE EMBED DETAIL (6)
NTS 2-C06|2-C06

As-built by Quality Plus Services 8-1-06

This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE:

Sheet Fifty of Sixty
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04/22/04 13:19 ANS 20450001-2-c06.dwg

DESIGNED	TA
DRAWN	TA
CHECKED	JHH
PROJECT ENGINEER	JOHN H. HORVATH
BY	JHH/CCB
APPRD.	
DATE	
REVISIONS	

Jones Edmunds & Associates, Inc. JEA
CONSULTING ENGINEERS AND SCIENTISTS
700 Northeast Waldo Road/Galacerville, Florida 32641 / (352) 377-5524

TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

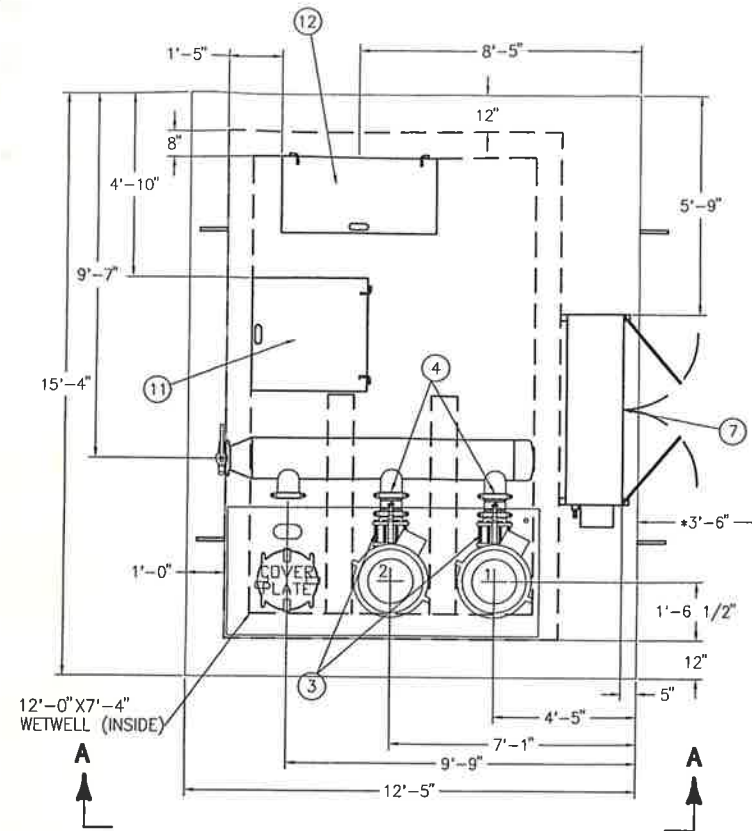
EFFLUENT STORAGE POND AND PARKING LOT DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE AS NOTED	DWG. NO. 2-C06

EQUIPMENT LIST				
ITEM	QTY	SIZE	DESCRIPTION	PART NO./NOTE
1	2		MOTOR	SEE SPECS.
2	2		VERTICAL TURBINE PUMP	SEE SPECS.
3	2	6"	PUMP CHECK VALVE	
4	2	6"	PUMP ISOLATION VALVE	VICTAULIC
5	1	12"	DISCHARGE HEADER	
6	1	8"	STATION ISOLATION VALVE	
7	1		CONTROL PANEL	72x60x18
8	1	750VA	CONTROL TRANSFORMER	
9	1	750VA	TRANSDUCER	
10	1		SKID 15'-4"x12'-5"	8" CHANNEL
11	1	36"X36"	WETWELL HATCH	
12	1	48"X24"	INTAKE SCREEN HATCH	
13	4		STATION LIFT EYES	REMOVABLE

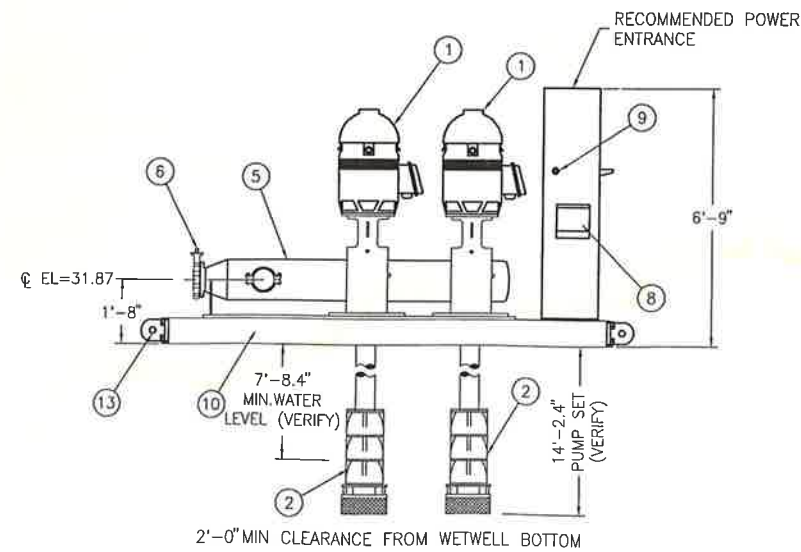
PARTS LIST

NOTE: 1) * MINIMUM TO ANY OBSTRUCTION REQUIRED BY NATIONAL ELECTRIC CODE.
 2) DISCHARGE PIPING CONNECTIONS MUST BE RESTRAINED AGAINST THRUST BY OTHERS.
 3) DRAWING BASED ON DRAWING NO. 14K0291F-U02R1 CREATED BY FLOWTRONEX PUMPING SYSTEMS, DALLAS, TX, 8/10/01.



Legend:
 = sewer pump
 = sewer valve
 = clean out
 = measured
 = pipe

PLAN



SECTION A-A
 PREFABRICATED PUMP STATION

NTS

As-built by Quality Plus Services 8-1-06

Sheet Fifty Two of Sixty
 none of these sheets shall be considered complete
 without the others

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LTR.	DATE	REVISIONS	BY	APPROD.

DESIGNED	JA, LAE
DRAWN	JA
CHECKED	JHH
PROJECT ENGINEER	JOHN H. HORVATH

CONSULTING ENGINEERS AND SCIENTISTS
 720 Northeast Waldo Road/Gainesville, Florida 32641 / (352) 377-5024

TAYLOR COASTAL CENTRALIZED
 WASTEWATER SYSTEM PHASE I
 TAYLOR COUNTY, FLORIDA

SPRAYFIELD PREFABRICATION
 PUMP STATION

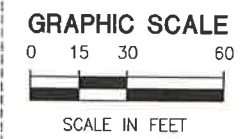
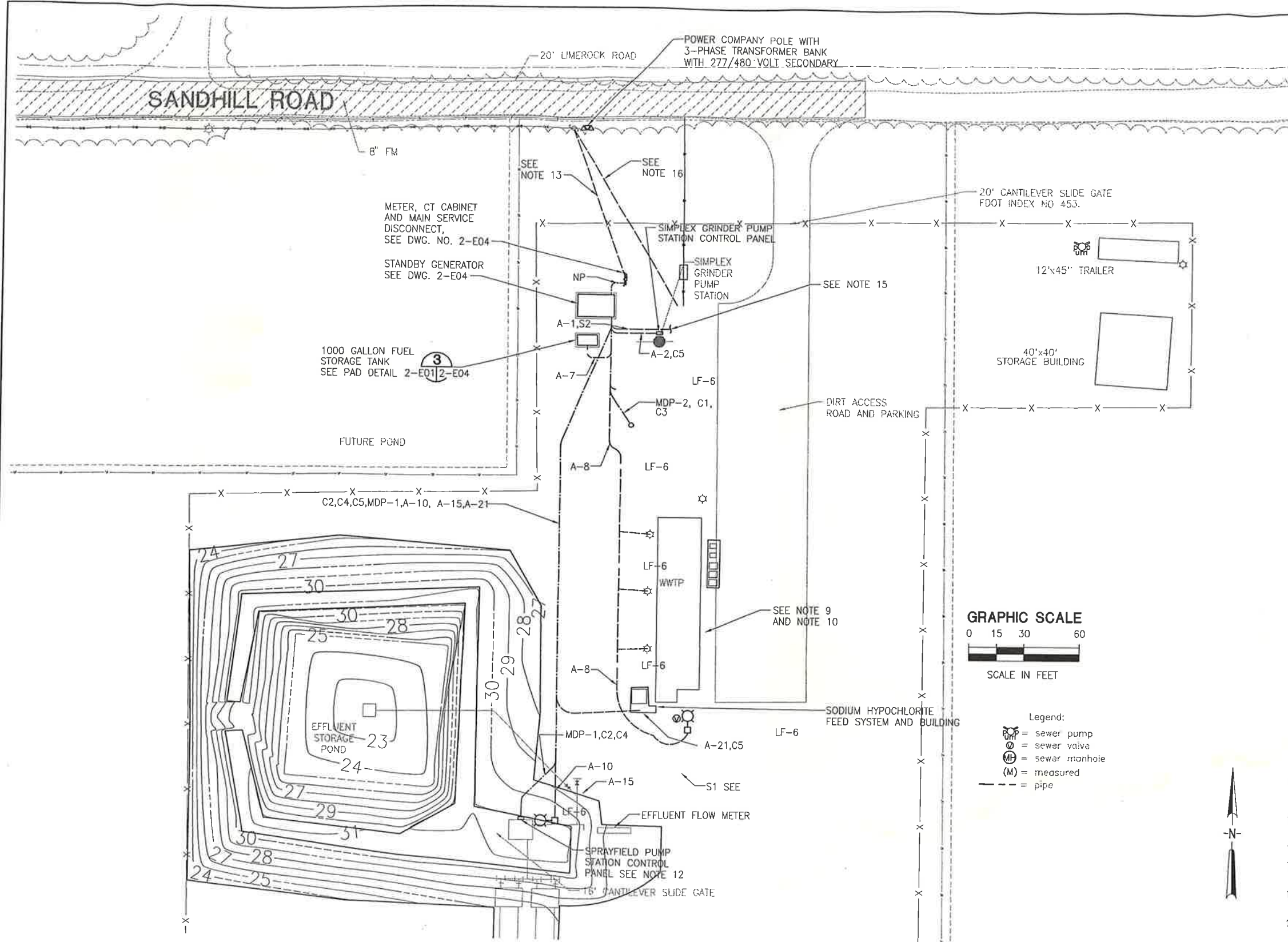
JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE NONE	DWG. NO. 2-COB

LEGEND
DESCRIPTION

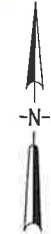
- SYMBOL**
- FLUORESCENT FIXTURE, TYPE INDICATED
 - INCANDESCENT FIXTURE, TYPE INDICATED
 - POLE MOUNTED AREA LIGHT, TYPE INDICATED
 - S TOGGLE SWITCH, 1-POLE, 20 AMP, 120 VOLT (3 INDICATES 3-WAY, 4 INDICATES 4-WAY)
 - ⊕ JUNCTION BOX
 - ⊕ DUPLEX RECEPTACLE, 3 WIRE GROUNDING, NEMA 5-20R, 20 AMP, 125 VOLT
 - CONDUIT, EXPOSED
 - CONDUIT IN FLOOR OR UNDERGROUND
 - MULTIPLE CONDUIT RUN (UNDERGROUND UNLESS OTHERWISE INDICATED)
 - CONDUIT UP (MULTIPLE OR SINGLE)
 - CONDUIT DOWN (MULTIPLE OR SINGLE)
 - ⊠ INSTRUMENTATION, TYPE INDICATED
 - CFWE CABLE FURNISHED WITH EQUIPMENT
 - ⊙ GROUND ROD, 5/8" x 8'-0" COPPER CLAD
 - OVERHEAD ELECTRIC LINE, 3-PHASE
 - EXISTING OR WORK OF OTHER TRADES
 - MDP-1 CIRCUIT REFERENCE, SEE WIRING SCHEDULES
 - Ⓜ MOTOR, HORSEPOWER INDICATED
 - TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR (TVSS)
 - PB-1 IN GROUND PULL BOX, SEE NOTE 7

NOTES

1. COORDINATE THE ELECTRICAL INSTALLATION WITH THE POWER COMPANY PRIOR TO BEGINNING WORK.
2. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). GROUND ALL ELECTRICAL EQUIPMENT AND ENCLOSURES IN ACCORDANCE WITH THE NEC.
3. COORDINATE NEW CONDUIT RUNS WITH NEW FACILITIES AND PIPING RUNS. PROVIDE 6" CLEAR AT PIPE CROSSINGS.
4. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF ALL SYSTEMS INCLUDING ROUTING OF HOME RUNS.
5. INSTRUMENTATION CIRCUIT CONDUIT SHALL BE RIGID GALVANIZED STEEL AND SHALL BE PVC COATED IN EXTERIOR ABOVE GRADE LOCATIONS.
6. CONNECTIONS ARE PERMITTED IN PULL BOXES FOR THE SITE LIGHTING AND RECEPTACLE CIRCUITS. CONNECTIONS FOR OTHER CIRCUITS SHALL NOT BE PERMITTED IN PULL BOXES UNLESS APPROVED BY THE ENGINEER. CONNECTIONS WHERE PERMITTED SHALL BE MADE USING MOISTURE-PROOF SPLICES, SCOTCHCAST OR EQUAL.
7. IN-GROUND PULL BOXES SHALL (IF REQUIRED) BE QUAZITE, OR EQUAL AND SHALL BE PG2436BA18 BOX WITH PG2436HA00 COVER.
8. ALL MOUNTING HARDWARE, ANCHORS, CHANNEL, PLATES, BRACKETS, FLOAT SUSPENSION CABLES, CABLE HANGERS AND ENCLOSURES SHALL BE STAINLESS STEEL UNLESS OTHERWISE INDICATED.
9. PACKAGE PLANT WIRING SHALL BE PROVIDED BY THE PACKAGE PLANT MANUFACTURER AND SHALL COMPLY WITH THE REQUIREMENTS OF SPECIFICATION SECTION 16401.
10. CONTROL PANEL AND MOUNTING SHALL BE PROVIDED BY THE PACKAGE PLANT MANUFACTURER.
11. SEE DRAWING S-1 FOR STRUCTURAL NOTES.
12. CONTROL PANEL AND MOUNTING SHALL BE PROVIDED BY THE PUMP STATION MANUFACTURER.
13. RUN EMPTY 2 1/2" CONDUIT TO POWER COMPANY POLE FOR SERVICE, EXTEND CONDUIT UP SIX INCHES ABOVE GRADE AT POLE AND CAP.
14. ROUTE CIRCUIT MDP-2 AND ASSOCIATED CONDUIT TO THE WWTP PLANT CONTROL PANEL.
15. CONNECT CIRCUIT A-1 TO THE LIGHTING PANEL (BY OTHERS) IN THE OFFICE/MAINTENANCE TRAILER. ROUTE ASSOCIATED CONDUIT AS REQUIRED FOR PROPER CONNECTION.
16. RUN EMPTY 1 1/2" CONDUIT FROM THE OFFICE/MAINTENANCE TRAILER TO THE POWER COMPANY POLE FOR FUTURE TELEPHONE SERVICE, EXTEND CONDUIT UP SIX INCHES ABOVE GRADE AT POLE AND CAP.



- Legend:
- ⊕ = sewer pump
 - ⊕ = sewer valve
 - ⊕ = sewer manhole
 - (M) = measured
 - = pipe



As-built by Quality Plus Services 8-1-06
This is a As-built, to show the existing location of sewer valves, sewer pumps, sewer manholes and sewer lines on the engineers plans. plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M.
Professional Surveyor and Mapper
F.R.C. #3223 - L.B. #4765

DATE: _____

Sheet Fifty Six of Sixty
none of these sheets shall be considered complete without the others

N:\20450.TCWandSD\001 SEWERS SYSTEM RD APPLICATION\JEA_AS-BUILT\20450001-2-e01.dwg, Nov 17, 2006 -10:37am Last Edited By: SSeaton

DESIGNED	SJC
DRAWN	DGP
CHECKED	CEW
BY	STEPHEN J. CONWAY
APPRD.	PROJECT ENGINEER

CONSULTING ENGINEERS AND SCIENTISTS
 730 Northeast Waldo Road/Galacerville, Florida 32041 / (305) 377-5801

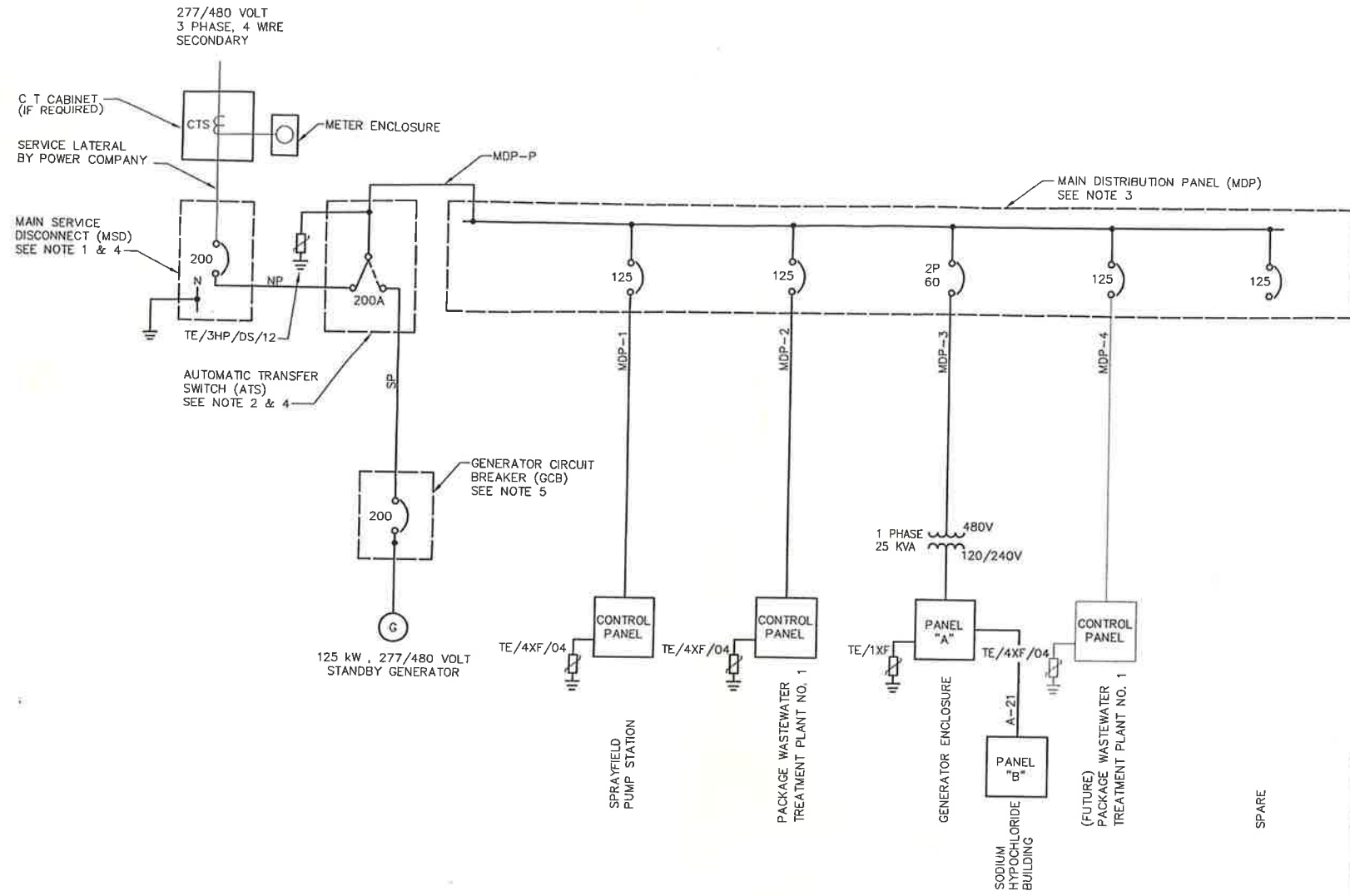
**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

**ELECTRICAL
SITE PLAN**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
STEPHEN J. CONWAY P.E. # 53532	SCALE 1"=30'	DWG. NO. 2-E01

LEGEND

SYMBOL	DESCRIPTION
(S)	MOTOR, HORSEPOWER INDICATED
(D)	TIME DELAY RELAY
(E)	ELAPSED TIME METER
(H)	MOTOR SPACE HEATER
(P)	PHASE MONITOR RELAY
(S)	SELECTOR SWITCH HAND OFF AUTOMATIC (H-O-A) UNLESS OTHERWISE INDICATED
(TVSS)	TRANSIENT VOLTAGE SURGE SUPPRESSOR (TVSS)
(MCP)	MOTOR CIRCUIT PROTECTOR (MCP) OR CIRCUIT BREAKER (TRIP AMPS INDICATED.) 3 POLE UNLESS OTHERWISE INDICATED
(FVNR)	COMBINATION MOTOR STARTER WITH MCP FVNR = FULL VOLTAGE NON-REVERSING (SIZE INDICATED)
(S)	SAFETY SWITCH
(CT)	CONTROL POWER TRANSFORMER
(CT)	CURRENT TRANSFORMER
(PT)	POWER TRANSFORMER
(NO)	NORMALLY OPEN CONTACT
(NC)	NORMALLY CLOSED CONTACT
(T)	TIMED CONTACT
(S)	SELECTOR SWITCH O-O=ON-OFF
(ATS)	AUTOMATIC TRANSFER SWITCH
(G)	GROUND CONNECTION
(R)	INDICATOR LIGHT (COLOR INDICATED)
(M)	COIL OR RELAY DESIGNATION SHOWN ON DIAGRAM
(CB)	BLOWER CONTROL PANEL
(M)	LOCATED IN MOTOR
(M)	PERMISSIVE CONTACT IN CONTROL PANEL
(M)	LOAD SHED RELAY CONTACT

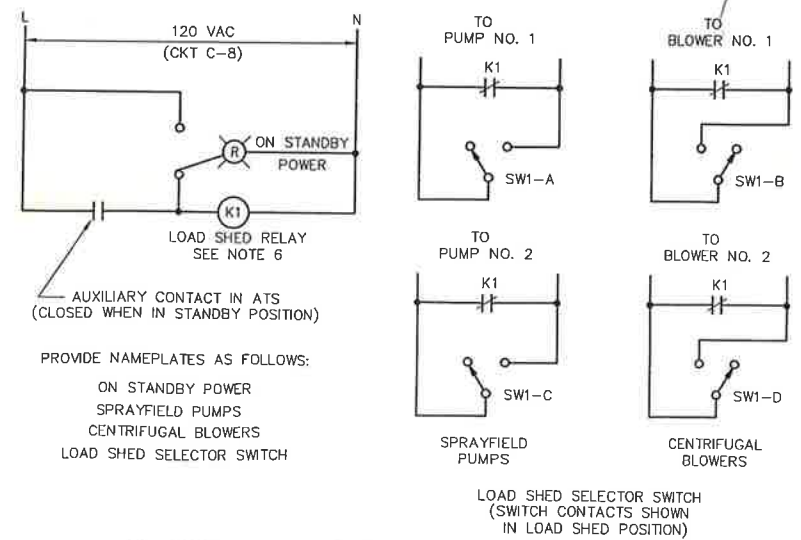


NOTES:

1. MAIN SERVICE DISCONNECT (MSD) SHALL BE A SQUARE D TYPE MH, OR EQUAL, 600 VOLT, MOLDED CASE THERMAL MAGNETIC CIRCUIT BREAKER IN NEMA 4X STAINLESS STEEL ENCLOSURE.
2. AUTOMATIC TRANSFER SWITCH (ATS) SHALL BE A ZENITH ZTS, OR EQUAL, WITH VOLTAGE AND POLES AS SPECIFIED IN SECTION 16235, IN NEMA 12 ENCLOSURE.
3. MAIN DISTRIBUTION PANEL (MDP) SHALL BE A SQUARE D I-LINE TYPE HCM, OR EQUAL. SEE SCHEDULE ON DRAWING 2-E03.
4. EQUIPMENT SHALL BE RATED FOR A MINIMUM OF 50,000 RMS SYMMETRICAL AIC.
5. THE GENERATOR CIRCUIT BREAKER (GCB) SHALL BE MOLDED CASE THERMAL MAGNETIC TRIP CIRCUIT BREAKER, AS SPECIFIED IN SECTION 16235, IN NEMA 12 ENCLOSURE.
6. LOAD SHED RELAY SHALL HAVE 4 SPARE NORMALLY CLOSED CONTACTS FOR FUTURE LOADS. PROVIDE A TE/110JR TVSS ON THE INCOMING POWER CIRCUIT.

Legend:
 = sewer pump
 = sewer valve
 = sewer manhole
(M) = measured
--- = pipe

**WASTEWATER TREATMENT PLANT
ONE LINE DIAGRAM**
SCALE: NONE



LOAD SHED CONTROL DIAGRAMS
SCALE: NONE

As-built by Quality Plus Services 8-1-06

Sheet Fifty Seven of Sixty
none of these sheets shall be considered complete
without the others

DATE	REVISIONS	BY	APPRD.

DESIGNED JBM
 DRAWN DGP
 CHECKED CEW
 STEPHEN J. CONWAY
 PROJECT ENGINEER

Jones Edmunds & Associates, Inc. JEA
 CONSULTING ENGINEERS AND SCIENTISTS
 700 Northeast Valdo Road/Gainesville, Florida 32641 / (352) 377-5521

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

ELECTRICAL DIAGRAMS

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
STEPHEN J. CONWAY P.E. # 53532	SCALE NONE	DWG. NO. 2-E02

N:\20450 TCWandSD\001 SEWERS SYSTEM RD APPLICATION\JEA_AS-BUILT\20450001-2-e02.dwg, Nov 17, 2006 -10:38am Last Edited By: SSeaton

PANELBOARD "A" SCHEDULE
 10,000 A.I.C. MINIMUM
 SURFACE MTD. CIRCUIT BREAKER TYPE: 120/240V., 1Ø, 3W, 60Hz, W/ SEPARATE NEUT. & GROUND BUS AND 125 AMP MAIN BREAKER

POLE NO.	TRIP AMP	NO. POLES	WIRE SIZE	CND SIZE	REMARKS	LINE 1	LINE 2	REMARKS	CND SIZE	WIRE SIZE	NO. POLES	TRIP AMP	POLE NO.
1	70	2	3#4 1#8(G)	1 1/2"	OFFICE/MAINT TRAILER	7500 1000	7500 1000	SIMPLEX GRINDER PUMP STA.	1"	2#8 1#10(G)	2	20	2
5	20	1	2#12 1#12(G)	3/4"	LIGHTS	400	400	SITE LIGHTING	3/4"	2#12 1#12(G)	1	20	6
7	20	1	2#12 1#12(G)	3/4"	DAY TANK	400	300	SITE LIGHTING	3/4"	2#12 1#12(G)	1	20	8
9	30	1	2#10 1#10(G)	3/4"	EXHAUST FAN	600	100	SITE LIGHTING	3/4"	2#12 1#12(G)	1	20	10
11	20	1	2#12 1#12(G)	3/4"	RECEPTACLES	720	600	BATTERY CAHRGER	3/4"	2#12 1#12(G)	1	20	12
13	-	1	2#12 1#12(G)	3/4"	LOAD SHED RELAY	100	1500	SPACE HEATER	3/4"	2#12 1#12(G)	1	20	14
15	20	1	2#12 1#12(G)	3/4"	EFFLUENT FLOW METER	1500	1500	TVSS	1"	3#8 1#10(G)	1	30	2
17	20	2	2#12 1#12(G)	3/4"	JACKET WATER HEATER	1500	1500	SPACE	-	-	-	-	-
21	40	2	2#6 1#8(G)	1"	PANEL B	1000	1000	SPACE	-	-	1	-	22
25	-	1	-	-	SPACE	-	-	SPACE	-	-	-	-	-
27	-	1	-	-	SPACE	-	-	SPACE	-	-	-	-	-
29	-	1	-	-	SPACE	-	-	SPACE	-	-	-	-	-

MAIN DISTRIBUTION PANEL (MDP) SCHEDULE
 65,000 A.I.C. MINIMUM
 SURFACE MTD. CIRCUIT BREAKER TYPE: 277/480V., 3Ø, 4W, 60Hz, W/ NEUT. & GROUND BUS AND 400A MAIN LUGS ONLY

SEE NOTES 3 & 4 ON DWG. 2-E04

POLE NO.	TRIP AMP	NO. POLES	WIRE SIZE	COND. SIZE	REMARKS	PHASE A	PHASE B	PHASE C	REMARKS	COND. SIZE	WIRE SIZE	NO. POLES	TRIP AMP	POLE NO.
1	125	3	4#1/0 1#2(G)	2"	SPRAYFIELD PUMP STATION				PACKAGE PLANT NO. 1	2"	4#1/0 1#2(G)	3	125	2
3	60	2	2#6 1#8(G)	1"	GENERATOR ENCLOSURE 25 KVA TRANSFORMER				(FUTURE) PACKAGE PLANT NO. 2	-	-	3	125	4
5	-	-	-	-	SPACE				SPACE	-	-	-	-	6
7	-	3	-	-	SPACE				SPACE	-	-	-	-	8
9	-	3	-	-	SPACE				SPACE	-	-	3	-	10
11	-	3	-	-	SPACE				TVSS	1"	4#8 1#10(G)	3	40	10

- NOTES**
1. PROVIDE A PTA-PB001 POLE TOP ADAPTER FOR FIXTURE MOUNTING. PROVIDE TWO FLUSH DEVICE ADAPTERS, SINGLE RECEPTACLE, SINGLE POLE SWITCH AND TWO SPRING DOOR COVERS AND GASKETS IN ONE OF TWO HANDHOLE COVERS.
 2. PROVIDE A 3" DIA x 10'-0" SCHEDULE 40 ALUMINUM MAST AND POLE BASE WITH RECEPTACLE (SPRING CITY CAT. NO. RPB 300).
 3. SEE LOAD SHED CIRCUIT DIAGRAMS ON DRAWING NO. 2-E04
 4. ROUTE SITE RECEPTACLE CIRCUIT IN CONDUIT WITH SITE LIGHTING CIRCUIT.
 5. CONDUIT BETWEEN IN-GROUND PULL BOXES SHALL BE 1".

INSTRUMENTATION AND CONTROL WIRING SCHEDULE

CIRCUIT NUMBER	FROM	TO	VOLTS	CONDUCTORS			CONDUIT	ALARM OR FUNCTION
				ANALOG	DISCRETE	GROUND		
S1	EFFLUENT FLOW METER	CHART RECORDER AND CHEM. MET. PUMP	4-20mA	#16 TPS	-	-	1"	FLOW SIGNAL
S2	AUTODIALER AT STANDBY GENERATOR BLDG.	TELEPHONE JB IN OFFICE MAINT. TRAILER	TELE.	2#16 TPS	-	-	1"	AUTODIALER TELEPHONE SIGNAL
C1	LOAD SHED RELAY	PACKAGED WWTP CONTROL PANEL	120	-	4#14	1#14	1"	LOAD SHEDDING CIRCUIT
C2	LOAD SHED RELAY	SPRAYFIELD PUMP STATION CONTROL PANEL	120	-	4#14	1#14	1"	LOAD SHEDDING CIRCUIT
C3	AUTODIALER	PACKAGED WWTP CONTROL PANEL	120	-	16#14	1#14	1"	WWTP GENERAL ALARM
C4	AUTODIALER	SPRAYFIELD PUMP STATION CONTROL PANEL	120	-	4#14	1#14	1"	SPRAYFIELD GENERAL ALARM
C5	AUTODIALER	SODIUM HYP. FEED SYST. AND BUILDING	120	-	4#14	1#14	1"	CHEMICAL FEED GENERAL ALARM
C5	AUTODIALER	STANDBY GENERATOR ANNUNCIATOR	120	-	4#14	1#14	1"	STANDBY GENERATOR GENERAL ALARM

- Legend:**
- = sewer pump
 - = sewer valve
 - = sewer manhole
 - (M) = measured
 - - - = pipe

MISCELLANEOUS CIRCUITS SCHEDULE

CIRCUIT NUMBER	POWER			INSTR & CONTROL			CONDUIT	REMARKS
	PHASE CNDCT	NEUTRAL CNDCT	GND WIRE	SPACE HEATER	ANALOG	DIGITAL		
NP	4#4/0	1#4/0	1#2	-	-	-	2-3"	NORMAL POWER
SP	4#4/0	1#4/0	1#2	-	-	-	2-3"	STANDBY POWER
MDP-P	4#4/0	1#4/0	1#2	-	-	-	2-3"	MAIN DISTRIBUTION PANEL POWER

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS/WATTS	MOUNTING	REMARKS
LF-6	GENERAL ELECTRIC	PBP20S1NV5AC	1/200	35' CONC. POLE SEE NOTE 1	HIGH PRESSURE SODIUM

As-built by Quality Plus Services 8-1-06

Sheet Fifty Eight of Sixty
 none of these sheets shall be considered complete without the others

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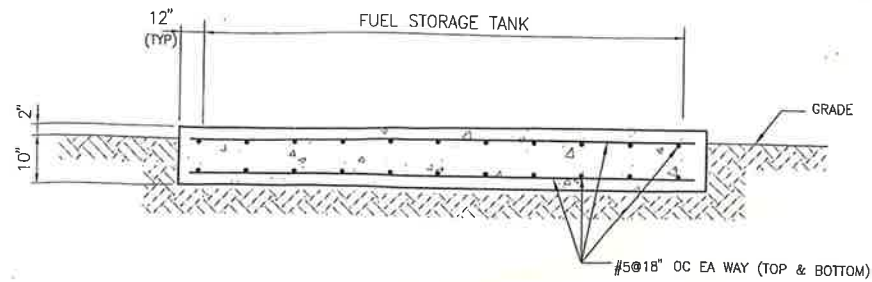
DESIGNED	SJC
DRAWN	DGP
CHECKED	CEW
PROJECT ENGINEER	STEPHEN J. CONWAY



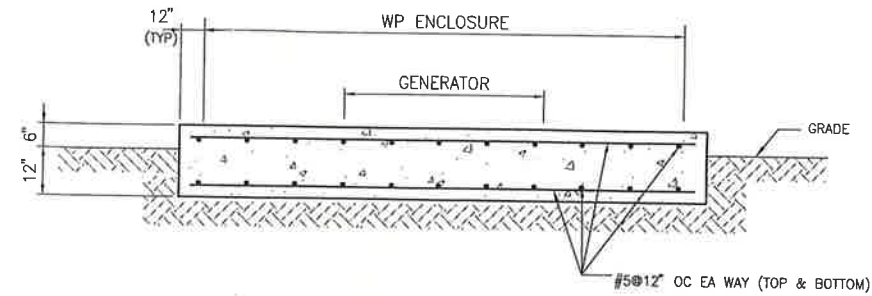
TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

ELECTRICAL SCHEDULES

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
STEPHEN J. CONWAY P.E. # 53532	SCALE NONE	DWG. NO. 2-E03

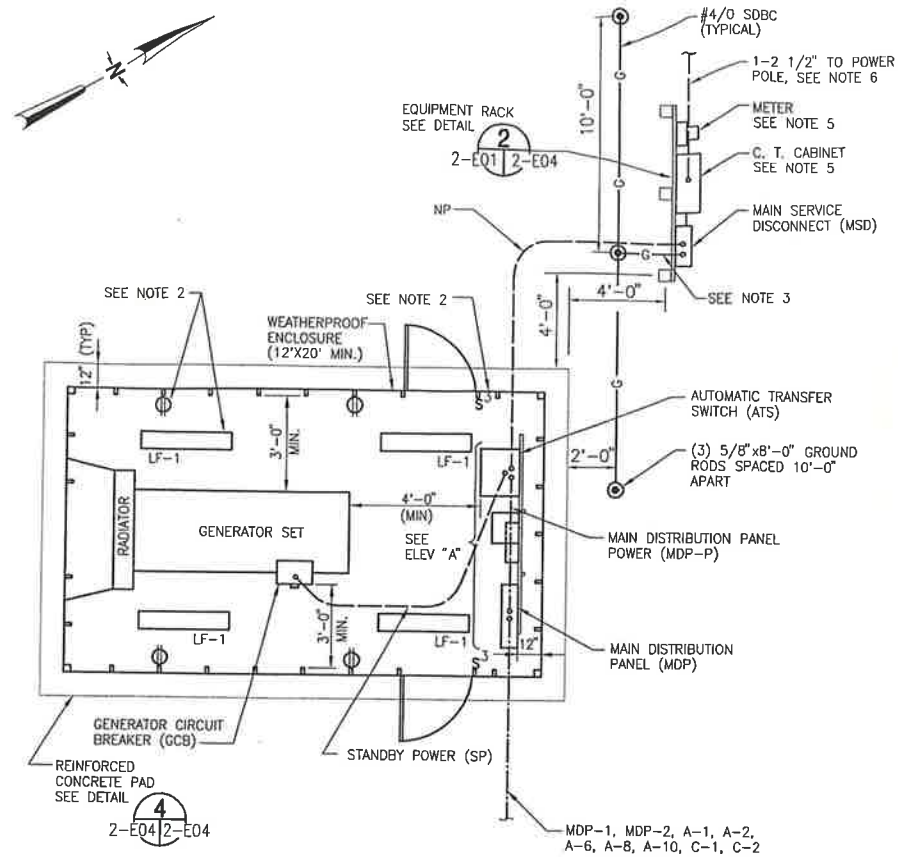


CONCRETE PAD DETAIL
3
2-E01 | 2-E04



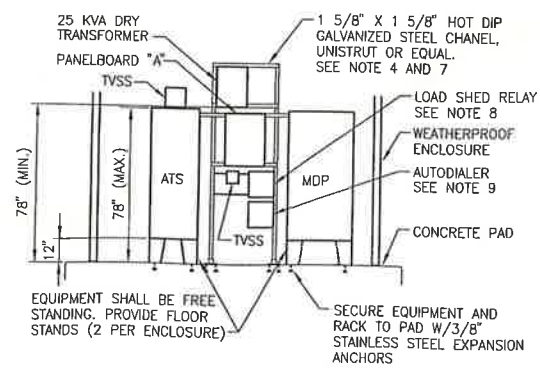
CONCRETE PAD DETAIL
4
2-E01 | 2-E04

Legend:
 = sewer pump
 = sewer valve
 = sewer manhole
(M) = measured
--- = pipe



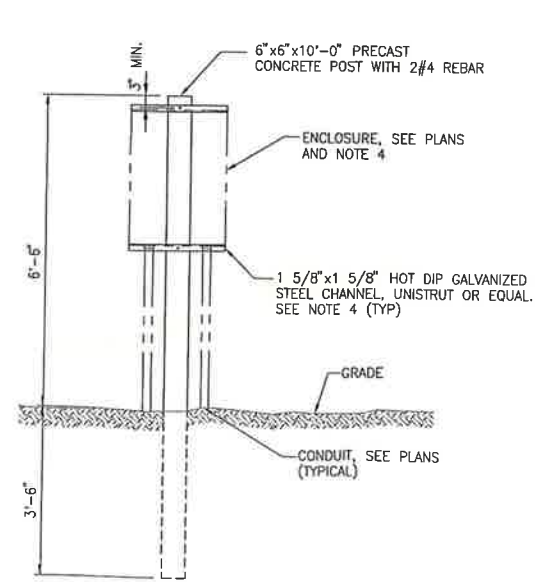
STANDBY GENERATOR

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



ELEVATION "A"

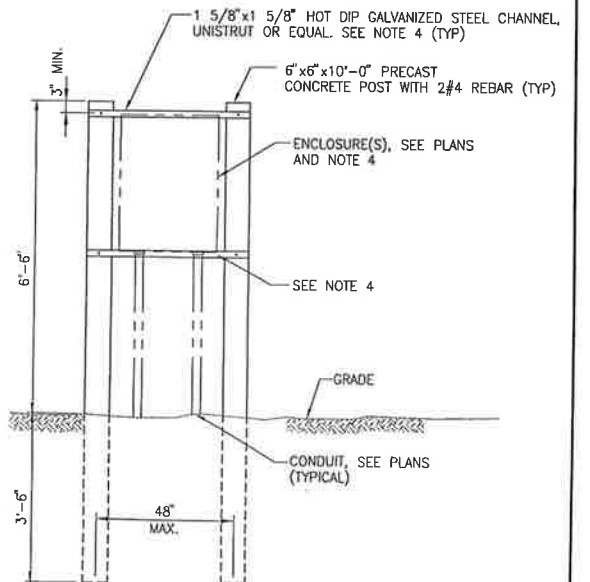
SCALE: 1/4"=1'-0"



EQUIPMENT MOUNTING

DETAIL

SCALE: 1/2"=1'-0" 2-E01 | 2-E04



EQUIPMENT MOUNTING

DETAIL

SCALE: 1/2"=1'-0" 2-E01 | 2-E04

NOTES:

- NOT USED.
- FIXTURE, RECEPTACLE AND SWITCH LOCATIONS SHOWN FOR GENERAL INFORMATION ONLY. UNITS AND WIRING SHALL BE FURNISHED AND INSTALLED BY THE GENERATOR ENCLOSURE MANUFACTURER.
- INSTALL NO 4/0 SDBC GROUND IN 1" C. TO 12" BELOW GRADE.
- SECURE CHANNELS TO POSTS AND ENCLOSURE TO CHANNELS WITH STAINLESS STEEL HARDWARE.
- INSTALL METER ENCLOSURE FURNISHED BY THE POWER COMPANY. PROVIDE CURRENT TRANSFORMER CABINET PER THE POWER COMPANY REQUIREMENTS AND INSTALL CURRENT TRANSFORMERS FURNISHED BY THE POWER COMPANY.
- EXTEND CONDUITS UP SIX INCHES ABOVE GRADE AT POLE AND CAP. POWER COMPANY WILL EXTEND CONDUITS UP POLE AND INSTALL SERVICE LATERAL FROM TRANSFORMER BANK TO MAIN SERVICE DISCONNECT.
- CONNECT ONE HORIZONTAL UNISTRUT TO BACK OF FLOOR MOUNTED ENCLOSURES NEAR TOP. CONNECT VERTICAL UNISTRUT TO FLOOR WITH 3 HOLE POST BASES.
- PROVIDE A NEMA 12 ENCLOSURE FOR LOAD SHED RELAY. INSTALL LOAD SHED SELECTOR SWITCHES AND INDICATING LIGHT IN COVER. SEE DIAGRAMS ON DRAWING 2-E02.
- MOUNT AUTODIALER AS INDICATED. CONNECT PLANT ALARMS TO AUTODIALER AS INDICATED ON PLANS AND SCHEDULE. CONNECT AUTODIALER TO TELEPHONE CKT. IN THE OFFICE/MAINT. TRAILER AS INDICATED ON SCHEDULE.

N:\20450 TOWARDS\001 SEWERS SYSTEM RD APPLICATION\JEA_AS-BUILT\20450001-2-e04.dwg, Nov 17, 2006 -10:39am Last Edited By: SSeaton

As-built by Quality Plus Services 8-1-06
 Sheet Fifty Nine of Sixty
 none of these sheets shall be considered complete without the others

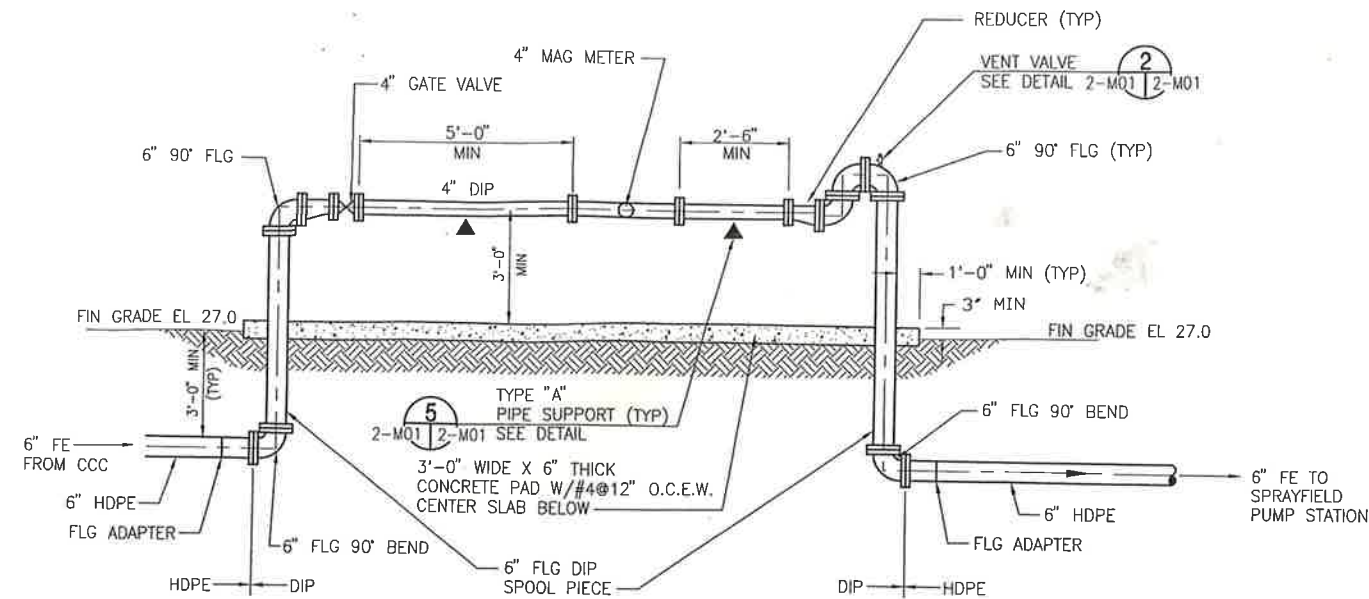
DESIGNED	SJC
DRAWN	DGP
CHECKED	CEW
PROJECT ENGINEER	STEPHEN J. CONWAY

Jones Edmunds & Associates, Inc. JEA CONSULTING ENGINEERS AND SCIENTISTS
 730 Northeast Waldo Road/Galveston, Florida 32541 / (850) 377-5881

TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

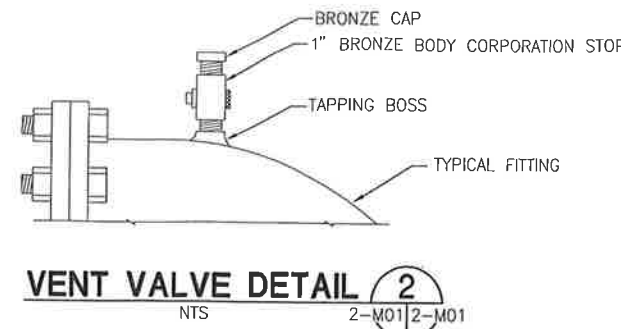
WWTP ELECTRICAL PLANS AND DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED FOR JEA BY	APR 2004	20450-001-03
STEPHEN J. CONWAY	SCALE	DWG. NO.
P.E. # 53532	AS NOTED	2-E04



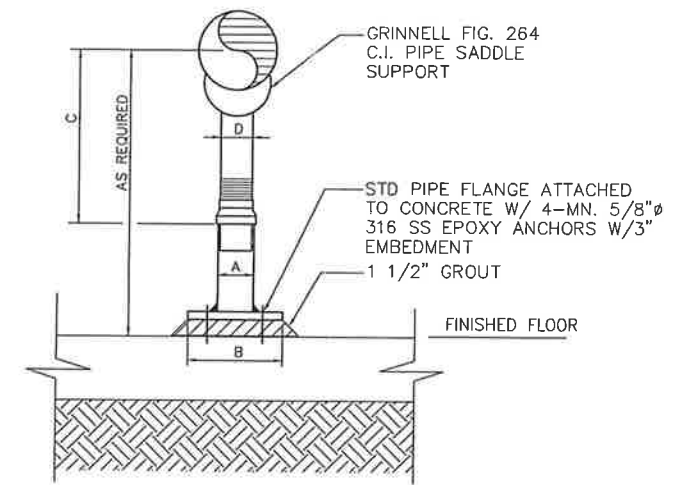
EFFLUENT FLOW METER DETAIL 1
SCALE: 3/8" = 1'-0"
2-C04 | 2-M01

- Legend:
- = sewer pump
 - = sewer valve
 - = sewer manhole
 - (M) = measured
 - = pipe

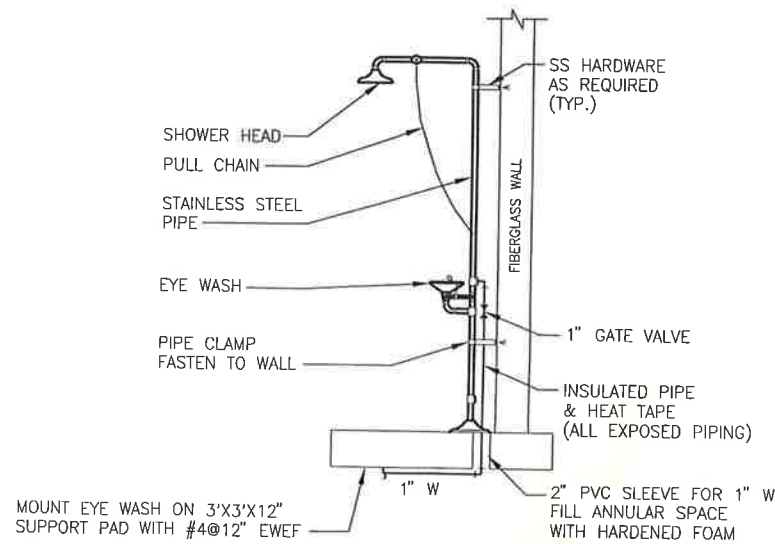


- NOTES:
- ALL HARDWARE, FLANGE, ANGLE, PIPES AND COUPLING SHALL BE 316 SS.
 - PROVIDE NEOPRENE WAFFLE ISOLATION PAD, KORFUND LORPAD 40 UNDER SUPPORT FOOT WHEN PIPING IS ISOLATED OR SUPPORT IS ADJACENT TO MECHANICAL EQUIPMENT.
 - FOR BASE, HEIGHT AND FLANGE DIMENSIONS, SEE TABLE BELOW. ALL DIMENSIONS IN INCHES.

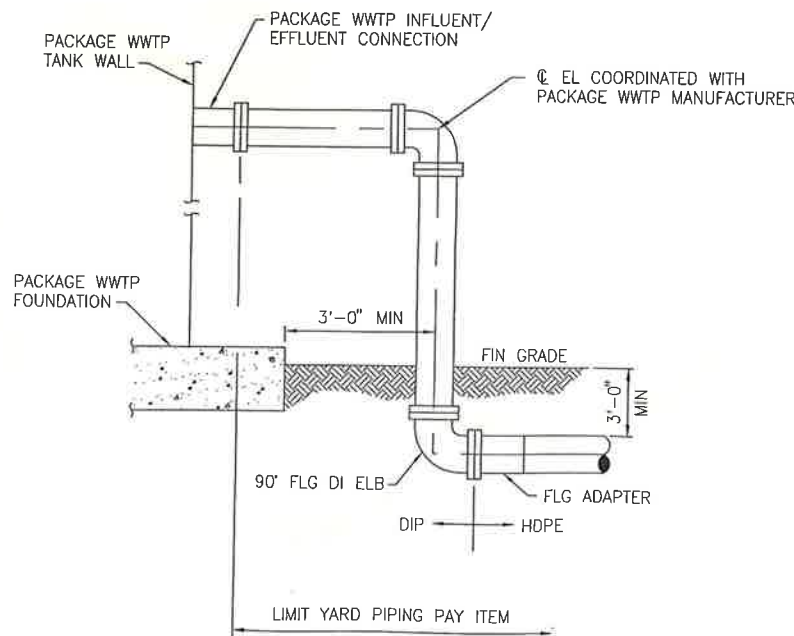
PIPE SIZE	A	B	C		D
			MIN.	MAX.	
2 1/2	2 1/2	9	8	13	1 1/2
3	2 1/2	9	8 1/4	13 1/4	1 1/2
3 1/2	2 1/2	9	8 1/2	13 1/2	1 1/2
4	3	9	9 1/4	14	2 1/2
5	3	9	10	14 3/4	2 1/2
6	3	9	10 1/2	15 1/4	2 1/2
8	3	9	11 3/4	16 1/2	2 1/2
10	3	9	13 1/2	18 1/4	2 1/2
12	3	9	15	19 3/4	2 1/2
14	4	11	16 1/4	20 3/4	3
16	4	11	17 3/4	22 1/4	3
18	6	13 1/2	19 1/2	24	3 1/2
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24	6	13 1/2	23 3/4	28 1/4	4
36	6	15	30	36	4



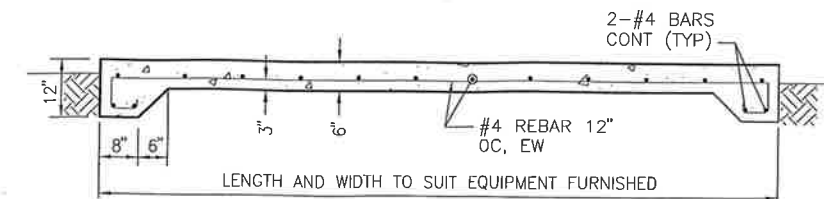
STANCHION PIPE SUPPORT DETAIL 5
NTS
2-M01 | 2-M01



EMERGENCY EYE WASH AND SHOWER DETAIL 3
NTS
2-C04 | 2-M01



INFLUENT/EFFLUENT CONNECTION DETAIL 4
NTS
2-C04 | 2-M01



EQUIPMENT PAD DETAIL 6
NTS
2-C04 | 2-M01

As-built by Quality Plus Services 8-1-06

Sheet Fifty Five of Sixty
none of these sheets shall be considered complete without the others

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LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED TA, LAE
DRAWN TA
CHECKED JHH
PROJECT ENGINEER JOHN H. HORVATH
700 Northeast Waldo Road/Cocoa, Florida 32941 / (321) 317-5621
JEA CONSULTING ENGINEERS AND SCIENTISTS

TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

SPRAYFIELD DETAILS

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
JOHN H. HORVATH P.E. # 47093	SCALE AS NOTED	DWG. NO. 2-M01

GENERAL NOTES

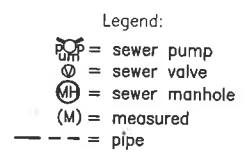
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GENERAL

- CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITIES FROM DAMAGE.
- TEMPORARY SHORING AND BRACING FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXCAVATED MATERIAL AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL BUILDING PERMITS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONSTRUCTION BY MAKING FIELD MEASUREMENTS PRIOR TO COMMENCING WORK.
- SCALE SHOWN ON DRAWINGS IS FOR REFERENCE ONLY. DRAWINGS SHALL NOT BE SCALED & ITEMS SHALL NOT BE CONSTRUCTED FROM SCALED DRAWINGS. CALL ENGINEER IF IT CANNOT BE CONSTRUCTED WITH DIMENSIONS SHOWN OR CONFLICTS WITH OTHER DRAWINGS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

DESIGN LOADS

- DESIGN CRITERIA
 - FLORIDA BUILDING CODE - 2001 EDITION
 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318)
 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)
- FLUID UNIT WEIGHT: 65 PSF
- PROCESS RELATED STRUCTURES:
 - PROCESS TOP SLABS: 100 PSF+EQUIPMENT
 - PROCESS & STORAGE SLABS: 300 PSF
- DEFLECTION CRITERIA:
 - DEAD+LIVE LOADS: L/240
 - LIVE LOADS: L/360



FOUNDATIONS

- SEE GEOTECHNICAL INVESTIGATION FOR DETAILED INSTRUCTIONS REGARDING REMOVAL OF OBJECTIONABLE MATERIALS, BACKFILLING, DENSIFICATION OF EXISTING SOIL, GROUND CONTROL, AND TESTING.
- GEOTECHNICAL INVESTIGATION BY: GEOTECHNICAL AND TESTING, INC. G71 DOCUMENT NUMBER: 03G045 DATED: MAY 15, 2003
- STRIP ALL ORGANIC OR UNSUITABLE MATERIAL [1'-0" OF TOP SOIL (MIN)]. EXCAVATE TO BOTTOM OF FOUNDATION & PROOF ROLL WITH 10 TON VIBRATORY ROLLER TO 95% PER ASTM D-1557 FOR 1'-0" BELOW EXCAVATION. PLACE CLEAN GRANULAR FILL IN 6 INCH LAYERS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY AS DETERMINED BY ASTM D-1557. TEST THE INSITU SOIL & EACH LIFT OF FILL FOR COMPACTION AT THE FOLLOWING FREQUENCIES:
 - BUILDING OR STRUCTURE PAD: ONE TEST FOR EVERY 750 SQUARE FEET.
- DEWATER, AS REQUIRED, SUCH THAT THE EXCAVATIONS ARE DRY AT THE TIME OF CONSTRUCTION AND CONCRETE PLACEMENT.
- UNLESS NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS.
- SOIL BEARING STRENGTH: 3000 PSF

As-built by Quality Plus Services 8-1-06

REINFORCING STEEL

- CONCRETE REINFORCEMENT STEEL INSTITUTE (CRSI) AND AMERICAN CONCRETE INSTITUTE (ACI) STANDARDS APPLY.
- ALL DEFORMED BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- ALL REINFORCING STEEL SHALL BE SUPPORTED IN STANDARD ACCESSORIES, HELD RIGIDLY AND ACCURATELY IN PLACE, AND PROTECTED AGAINST DISPLACEMENT BEFORE AND DURING PLACEMENT OF CONCRETE.
- REINFORCEMENT CHAIR LEGS THAT REST ON CONCRETE SURFACES THAT WILL BE EXPOSED IN THE FINISHED STRUCTURE SHALL BE FABRICATED OF STAINLESS STEEL OR SHALL BE PLASTIC COATED.
- WHERE SPLICE LENGTHS ARE NOT SPECIFIED, USE 50 BAR DIAMETERS.

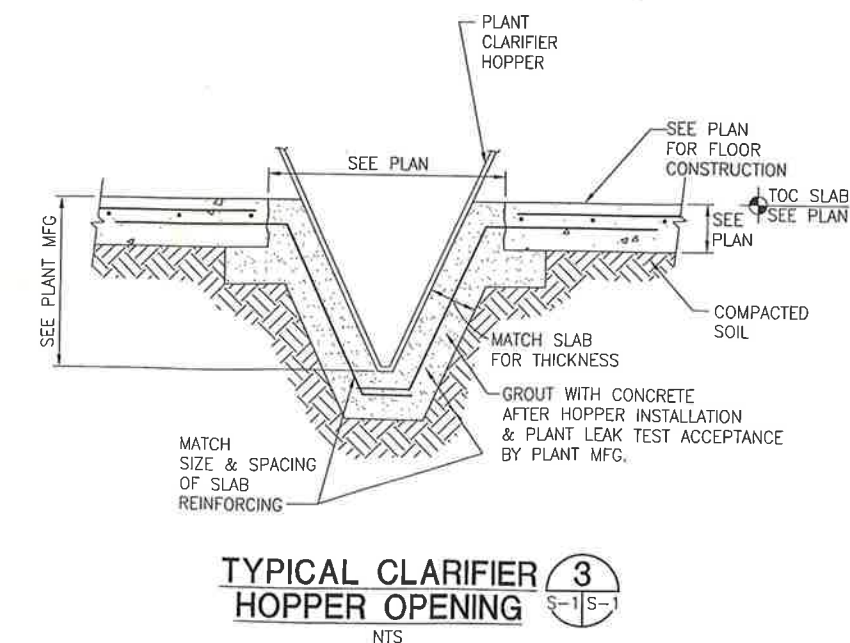
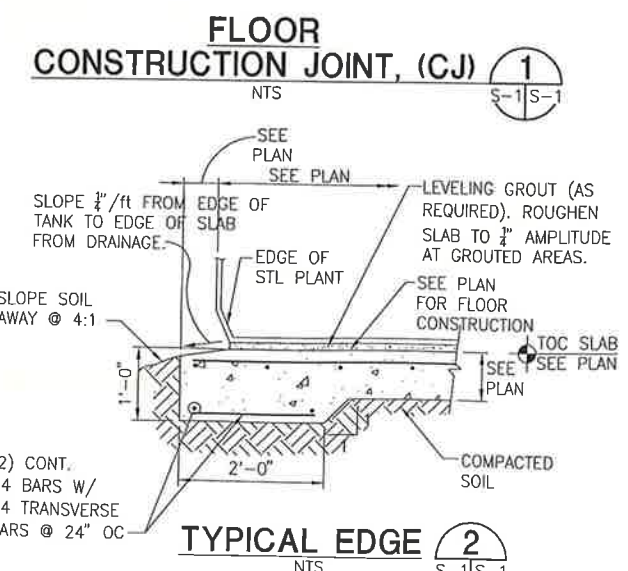
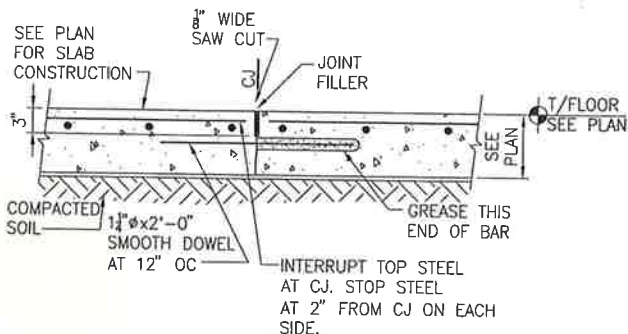
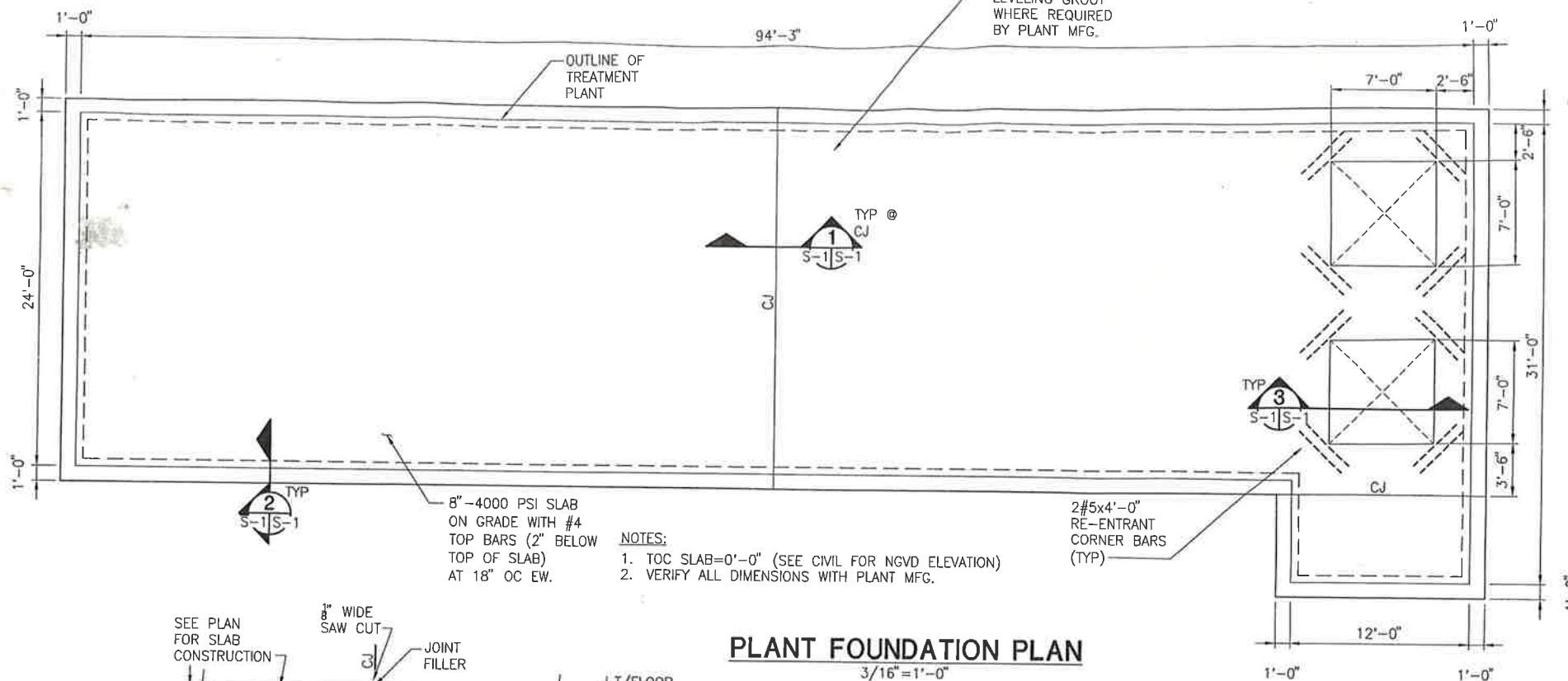
CONCRETE

- THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY:

ACI 318(CODE)	ACI 304(PLACING)
ACI 306(WINTER CONCRETE)	ACI 315(DETAILING)
ACI 305(HOT WEATHER CONCRETE)	ACI 347(FORM WORK)
ACI 211.1(MIX PROPORTIONING)	ACI 350(ENV. STRUCT.)
- THE REQUIRED CONCRETE STRENGTH BASED ON AN AGE OF 28 DAYS FOR ELEMENTS IN THE STRUCTURE SHALL NOT BE LESS:
 - 4000 PSI FOR SLAB ON GRADE THICKER THAN 6" OR LESS, NOT HOLDING LIQUID.
 - 4000 PSI FOR CONCRETE BEAMS, ELEVATED SLABS, COLUMNS, AND LIQUID HOLDING TANKS.
 - 2500 PSI FOR PIPE ENCASEMENT
- SITE ADDED WATER IS PERMITTED PROVIDED SLUMP SPECIFICATIONS AND W/C RATIO ARE NOT EXCEEDED, HOWEVER NOT MORE THAN ONE GALLON OF WATER PER CUBIC YARD MAY BE USED TO ADJUST THE MIX AT THE JOB SITE.
- CONSOLIDATE ALL CONCRETE, OTHER THAN SLABS ON GRADE USING MECHANICAL VIBRATING EQUIPMENT.

CONCRETE CONT.

- DO NOT PLACE CONCRETE DURING RAIN OR IF RAIN IS LIKELY TO OCCUR PRIOR TO CONCRETE HARDENING.
- EPOXY ADHESIVE FOR FASTENING BOLTS AND REBAR INTO CONCRETE AND MASONRY SHALL BE EITHER RAMSET EPCON CERAMIC 6 OR HILTI HY150.
- CLEARANCE FOR REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL BE:
 - CAST AGAINST GROUND
 - SLABS AND WALLS CONTACTING WATER OR SEWAGE
 - #5 BARS AND SMALLER: 2"
 - #6 BARS AND LARGER: 2"
 - CONCRETE EXPOSED TO EARTH OR WEATHER
 - #5 BARS AND SMALLER: 2"
 - #6 BARS AND LARGER: 2"
- ALL REINFORCING BENDS, UNLESS NOTED OTHERWISE, SHALL BE A 90° STANDARD HOOK AS DEFINED IN ACI 318.
- UNLESS OTHERWISE NOTED, ALL WALL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALL.
- PROVIDE 3/4" CHAMFER ON ALL EXPOSED EDGES OF CONCRETE.



Sheet Fifty Four of Sixty
none of these sheets shall be considered complete without the others

NOTE:
ALL CONNECTIONS FROM PLANT TO SLAB TO BE COORDINATED WITH PACKAGE WWTP MANUFACTURER AND APPROVED BY ENGINEER.

01/06/04 08:53 ANS 20450001-s01.dwg

LTR.	DATE	REVISIONS	BY	APPR.

DESIGNED: TWO
DRAWN: AGO
CHECKED: TWO
PROJECT ENGINEER: TIM W. OWEN, P.E.

JEA CONSULTING ENGINEERS AND SCIENTISTS
 730 Northeast Waldo Road/Culverville, Florida 32641 / (352) 577-5555

**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM PHASE I
TAYLOR COUNTY, FLORIDA**

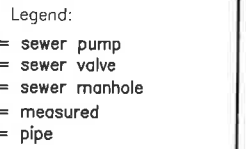
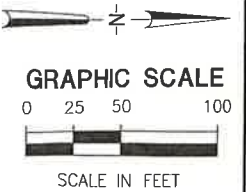
**PLANT FOUNDATION
PLAN, SECTIONS, AND GENERAL NOTES**

JEA CERTIFICATE OF AUTHORIZATION #1841 APPROVED FOR JEA BY	DATE APR 2004	PROJECT NO. 20450-001-03
TIM W. OWEN, P.E. P.E. # 52735	SCALE NOTED	DWG. NO. 2-S01

Synergy Structural Engineering
 A Jones, Edmunds & Associates, Inc. Affiliate
 1100 Conroy Blvd Jacksonville, Florida 32211 (904) 744-5461

Table with columns: Point #, Easting, Northing, Description. Contains a list of survey points and their coordinates.

Table with columns: Point #, Easting, Northing, Description. Contains a list of survey points and their coordinates.



As-built by Quality Plus Services 8-1-06

This is an As-built, to show the existing location of sewer valves, sewer pumps, sewer clean-outs and sewer lines on the engineers plans, plan dimension not shown at the request of the client

Lawrence D. Rowell P.S.M., Professional Surveyor and Mapper, F.R.C. #3223 - L.B. #4765

DATE:

Sheet Sixty of Sixty, none of these sheets shall be considered complete without the others

03/30/04 14:46 TA 20450001-1-C01.dwg

Table with columns: LTR., DATE, REVISIONS, BY, APPRD.

Table with columns: DESIGNED, DRAWN, CHECKED, PROJECT ENGINEER.



TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM PHASE I TAYLOR COUNTY, FLORIDA

WASTEWATER COLLECTION SYSTEM LAYOUT PLAN

Table with columns: JEA CERTIFICATE OF AUTHORIZATION #1841, DATE, PROJECT NO., SCALE, DWG. NO.