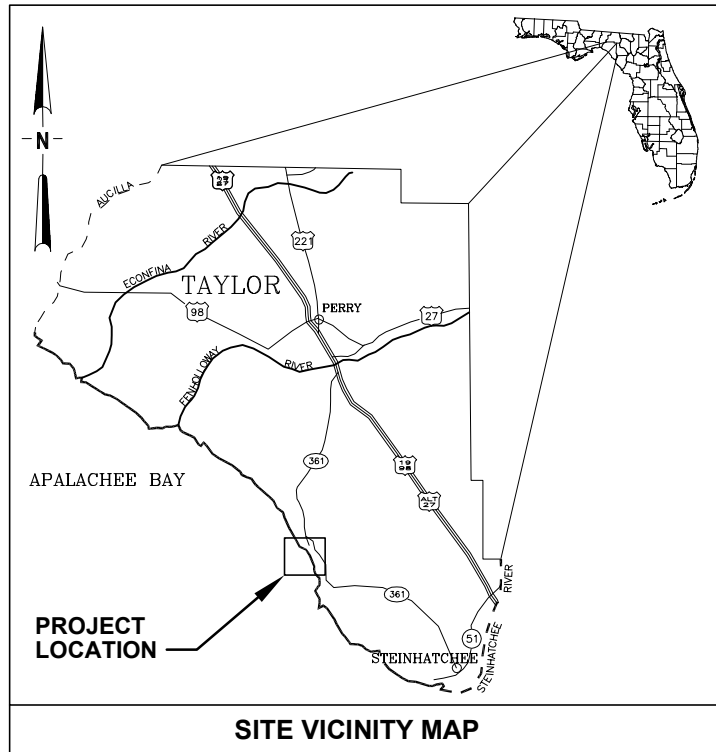


TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE 2, PART 2

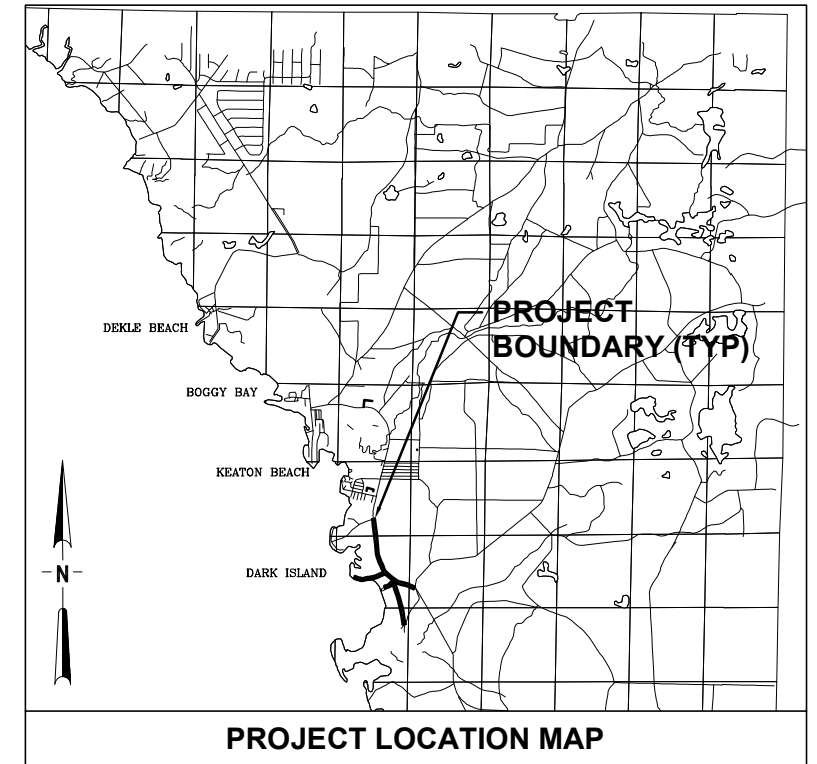
TAYLOR COUNTY, FLORIDA



PREPARED BY:



730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
CERTIFICATE OF AUTHORIZATION #1841



A COOPERATIVE PROJECT BETWEEN:

TAYLOR COASTAL WATER & SEWER DISTRICT
USDA RURAL DEVELOPMENT
US ENVIRONMENTAL PROTECTION AGENCY
STATE OF FLORIDA

Plotted: 4/26/12 11:33am MTEBOW

LAST SAVED: 4/2/2012 10:58 AM MTEBOW

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AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	G	GROUND	RSC	RIGID STEEL CONDUIT
ADS	ADVANCED DRAINAGE SYSTEM PIPE	GALV	GALVANIZED	RT	RIGHT
AFF	ABOVE FINISHED FLOOR	GF1	GROUND FAULT INTERRUPTER	R/W	RIGHT OF WAY
AL	ALUMINUM	GND	GROUND	RW/RAW	RAW WATER
ARV	AIR RELEASE VALVE	GR	GRADE	S	SLOPE
ASPH	ASPHALT	GS	GALVANIZED STEEL	SAN	SANITARY SEWER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GV	GATE VALVE	SCH	SCHEDULE
		HDD	HORIZONTAL DIRECTIONAL DRILL	SDR	STANDARD DIMENSION RATIO
ATS	AUTOMATIC TRANSFER SWITCH	HDPE	HIGH DENSITY POLYETHYLENE	SE	SOUTHEAST
AV	AIR VALVE	HORIZ	HORIZONTAL	SEC	SECONDARY
AVV	AIR VACUUM VALVE	HP	HIGH POINT	SF	SQUARE FEET
AZ	ALARM ZONE	HT	HEIGHT	SHT	SHEET
BC	BATTERY CHARGER	HWL	HIGH WATER LEVEL	SIM	SIMILAR
BF	BLIND FLANGE	HZ	HERTZ	SPEC	SPECIFICATIONS, SPECIFIED
BKR	BREAKER	ID	INSIDE DIAMETER	SP	SUPER PAVE
BLD	BLIND	IE	INVERT ELEVATION	SPT	STANDARD PENETRATION TEST
BLDG	BUILDING	IN	INCHES	SQ	SQUARE
BFV	BUTTERFLY VALVE	INC	INCREASER	SRWMD	SUWANNEE RIVER WATER MANAGEMENT DISTRICT
BM	BENCH MARK	JT	JOINT	SS	STAINLESS STEEL
BO	BLOW-OFF	KV	KILOVOLT	STA	STATION
BV	BALL VALVE	KVA	KILOWATT VOLTAGE AMPERE	STAT	STATIONARY
BWJ	BUTT WELDED JOINT	KW	KILOWATT	STD	STANDARD
C	CONDUIT	LB	POUND	STL	STEEL
C/B	CIRCUIT BREAKER	LBR	LIMEROCK BEARING RATIO	STOR	STORAGE
CARV	COMBINATION AIR RELEASE/ VACUUM RELIEF VALVE	LBS	LOAD BREAK SWITCH	SW	SOUTHWEST
CDOT	COUNTY DEPARTMENT OF TRANSPORTATION	LLT	LIQUID LEVEL TRANSMITTER	SW	SWITCH
CF	CUBIC FOOT, CUBIC FEET	LOC	LIMITS OF CONSTRUCTION	SWJ	SOLVENT WELD JOINT
CIR	CIRCUIT	LP	LOW PRESSURE	SYM	SYMBOL
CISP	CAST IRON SOIL PIPE	LT	LEFT	SYS	SYSTEM
CL	CENTERLINE	MAX	MAXIMUM	TBM	TEMPORARY BENCH MARK
CLR	CLEAR	MCC	MOTOR CONTROL CENTER	TD	TERMINAL DISTRIBUTION
CMP	CORRUGATED METAL PIPE	MECH	MECHANICAL	THRD	THREAD(ED)
C/O	CLEANOUT	MFR	MANUFACTURER	TS	TAMPER SWITCH
CONC	CONCRETE	MFR'S	MANUFACTURER'S	TYP	TYPICAL
CONN	CONNECT, CONNECTED, CONNECTION	MH	MANHOLE	TZ	TROUBLE ZONE
CONT	CONTINUOUS	MIN	MINIMUM	UG	UNDERGROUND
COMP	COMPRESSED	MISC	MISCELLANEOUS	UGE	UNDER GROUND ELECTRIC
CP	CATHODIC PROTECTION	MJ	MECHANICAL JOINT	UH	UNIT HEATER
CR	CONTROL RELAY	N	NORTHING, NORTH	US	UNITED STATES
CS	CONTROL SWITCH	N/A	NOT APPLICABLE	USGS	UNITED STATES GEOLOGICAL SURVEY
CV	CHECK VALVE	NAD	NORTH AMERICAN DATUM	USC & GS	UNITED STATES COASTAL AND GEODETIC SURVEY
DBI	DITCH BOTTOM INLET	N/AVAIL	NOT AVAILABLE	V	VALVE
DEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	NAVD	NORTH AMERICAN VERTICAL DATUM	VERT	VERTICAL
DI	DUCTILE IRON	NE	NORTHEAST	W	WATER
DIA	DIAMETER	NEC	NATIONAL ELECTRICAL CODE	W/	WITH
Ø	DIAMETER	NGVD	NATIONAL GEODETIC VERTICAL DATUM	W/	WATER ELEVATION
DIP	DUCTILE IRON PIPE	No	NUMBER	WE	WEIGHT
DIV	DIVISION	NOM	NOMINAL	WGT	WEIGHT
DOT	DEPARTMENT OF TRANSPORTATION	NPT	NATIONAL PIPE THREAD	WJ	WELDED JOINT
DWG	DRAWING	NTS	NOT TO SCALE	WM	WATER MAIN
E	EASTING/ EAST	NW	NORTHWEST	WS	WELDED STEEL
EA	EACH	#	NUMBER DESIGNATION	WSEL	WATER SURFACE ELEVATION
ECC	ECCENTRIC	OC	ON CENTER	WT	WEIGHT
EF	EACH FACE	OC EW	ON CENTER EACH WAY	WTP	WATER TREATMENT PLANT
EJ	EXPANSION JOINT	OCL	ON CENTERLINE OF ROAD	WW	WASTEWATER
EL	ELEVATION	OD	OUTSIDE DIAMETER	WWF	WELDED WIRE FABRIC
ELB	ELBOW	OEOP	ON EDGE OF PAVEMENT	WWTP	WASTEWATER TREATMENT PLANT
ELEC	ELECTRICAL	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	XFMR	TRANSFORMER (CONTROL ELEVATION UNLESS OTHERWISE NOTED)
EMT	ELECTRICAL METALLIC TUBING	PB	PUSH BUTTON		
EOL	EDGE OF LIMEROCK	PCE	PIG CLEANOUT EXIT		
EOP	EDGE OF PAVEMENT	PCL	PIG CLEANOUT LAUNCH		
EW	EACH WAY	PE	PLAIN END		
EXIST	EXISTING	P/L	PROPERTY LINE		
EXP	EXPANSION	PI	PRESSURE INDICATOR/GAUGE		
*F	DEGREES FAHRENHEIT	PLC	PROGRAMMABLE LOGIC CONTROLLER		
FAB	FABRICATED	PNL	PANEL		
FAC	FLORIDA ADMINISTRATIVE CODE	POJ	PUSH-ON JOINT		
FCA	FLANGED COUPLING ADAPTER	PRI	PRIMARY		
FCL	FROM CENTERLINE OF ROAD	PS	PRESSURE SWITCH		
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	PSI	POUNDS PER SQUARE INCH		
FEOC	FROM EDGE OF CURB	PV	PLUG VALVE		
FEOL	FROM EDGE OF LIMEROCK	RL	RED LIGHT		
FEOP	FROM EDGE OF PAVEMENT	RCP	REINFORCED CONCRETE PIPE		
FEOWL	FROM EDGE OF WHITE LINE	RED	REDUCER		
FF	FLAT FACE	REF	REFERENCE (INFORMATION OBTAINED FROM DRAWINGS BY OTHERS)		
F/G	FINISH GRADE	REQ	REQUIRED		
FIG	FIGURE	REV	REVISION		
FIN	FINISHED	RF	RAISED FACE		
FJ	FLANGED JOINT	RJ	RESTRAINED JOINT		
FLG	FLANGE	RMJ	RESTRAINED MECHANICAL JOINT		
FM	WASTEWATER FORCE MAIN	RPM	REVOLUTIONS PER MINUTE		
FP&L	FLORIDA POWER AND LIGHT	RPOJ	RESTRAINED PUSH-ON JOINT		
FT	FOOT, FEET				

BID DOCUMENTS

DESIGNED	RBEST			
DRAWN	MTEBOW			
CHECKED	JHORVATH			
LTR.	DATE	REVISIONS	BY	APPRD.



TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE 2, PART 2 TAYLOR COUNTY, FL

DRAWING INDEX AND ABBREVIATIONS

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H. HORVATH	SCALE	DWG. NO.
P.E. #47093	NONE	G-2

Plotted: 4/26/12 11:34am Mtebow

1. ALL ELEVATIONS ARE BASED ON NAVD OF 1988, UNLESS OTHERWISE NOTED. HORIZONTAL CONTROL IS BASED ON NAD83 STATE PLANE COORDINATES (FLORIDA NORTH ZONE-LAMBERT PROJECTION).
2. AT NO TIME SHALL THE COLLECTION SYSTEM PIPING (PRESSURE LINES) SLOPE OF DESCENDING LEG (IN THE FLOW DIRECTION) EXCEED 11.25 DEGREES FROM THE HORIZONTAL.
3. 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.
4. 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.
5. 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 THEIR WORK.
6. 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. :
7. 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 CONSTRUCTION.
8. ALL EXISTING SEWER, WATER, ELECTRICAL AND OTHER UTILITY SERVICES SHALL BE MAINTAINED DURING THE ENTIRE CONTRACT PERIOD.
9. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL FACILITIES THROUGHOUT THE CONTRACT PERIOD.
10. 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.
11. THE CONTRACTOR IS RESPONSIBLE FOR BRACING, SHORING, OR PROVIDING OTHER MEANS NECESSARY TO PROTECT AND SUPPORT EXISTING STRUCTURES/UTILITIES, EXPOSED OR UNEXPOSED, ROADS, AND SOIL SLOPES/EMBANKMENTS DURING CONSTRUCTION.
12. 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.
13. 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, GRASSING, SODDING, STRIPING, PAVEMENT MARKINGS, FENCING, AND OTHER IMPROVEMENTS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
14. ALL SIGNAGE, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO "FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS" LATEST EDITION.
15. 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.
16. 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.
17. DEFLECTION OF PIPE AT JOINTS SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM VALUE. MINIMUM BENDING RADIUS SHALL BE 25% GREATER THAN THE MANUFACTURER'S RECOMMENDED MINIMUM VALUE.
18. PROPOSED FUSION WELDED HDPE SEWER LINES SHALL BE LAID AT LEAST 6 FEET HORIZONTALLY FROM EXISTING WATER LINES, EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS. SEWER LINES OF ALTERNATIVE CONSTRUCTION SHALL BE LAID A MINIMUM OF 10 FEET HORIZONTALLY FROM EXISTING WATER LINES. DISTANCES SHALL BE MEASURED INSIDE EDGE TO INSIDE EDGE.
19. AT LOCATIONS WHERE A PROPOSED PIPELINE AND AN EXISTING UTILITY CROSS THE PROPOSED PIPELINE SHALL BE INSTALLED BENEATH THE EXISTING UTILITY IN ACCORDANCE WITH THE TYPICAL UTILITY CONFLICT DETAIL SHOWN ON THE DRAWINGS. WITH APPROVAL FROM THE ENGINEER, THE CONTRACTOR MAY INSTALL THE PROPOSED PIPELINE 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 DETAIL ARE MAINTAINED. AT LOCATIONS WHERE THE MINIMUM VERTICAL SEPARATION BETWEEN A PROPOSED SEWER PIPE AND A WATER PIPE CAN NOT BE ACHIEVED, THE PROPOSED SEWER PIPE FOR A DISTANCE OF AT LEAST 10 FEET ON EACH SIDE OF THE CROSSING, SHALL BE FULLY ENCASED IN CONCRETE IN CONFORMANCE WITH THE CONCRETE ENCASEMENT SHOWN ON THE DRAWINGS.
20. WITH APPROVAL FROM THE ENGINEER, PROPOSED HDPE PIPELINES MAY BE INSTALLED BENEATH UTILITIES WITHOUT THE USE OF FITTINGS (I.E., BY DEFLECTING/BENDING THE HDPE PIPELINE).
21. IN THE EVENT THAT A UTILITY CONFLICT CAN NOT BE RESOLVED BY MAKING MINOR ROUTE ADJUSTMENTS OR BY UTILIZING THE TYPICAL UTILITY CONFLICT 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. NO ADDITIONAL COMPENSATION WILL BE PROVIDED TO THE CONTRACTOR FOR THESE RELOCATION PLANS.
22. FOR GRAVITY SERVICE PIPING LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS. PRESSURE PIPING SHALL BE LAID TO THE MINIMUM SPECIFIED COVER, EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS.
23. 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 AS SPECIFIED FOR THE ADJACENT STRAIGHT RUN OF PIPE.
24. PIPE HANGERS AND SUPPORTS ARE NOT SHOWN UNLESS A SPECIAL TYPE OR CONFIGURATION IS REQUIRED. FINAL SUPPORT, LOCATIONS, AND TYPES SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. MAXIMUM SPACING SHALL BE AS SPECIFIED.
25. ALL JOINTS SHALL BE WATERTIGHT. STANDARD WALL PIPE DETAIL SHALL BE USED WHEREVER PIPING PASSES FROM A LIQUID HOLDING CONCRETE STRUCTURE.
26. ALL FLEXIBLE CONNECTORS OR FLANGED COUPLING ADAPTERS SHALL BE PROVIDED WITH A TIE ROD RESTRAINT SYSTEM. THRUST PROTECTION SHALL BE ADEQUATE FOR TEST PRESSURES SHOWN ON THE PIPING SCHEDULE IN SPECIFICATION SECTION 15055.
27. 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.
28. ALL BURIED AND EXPOSED PIPING SHALL BE PRESSURE TESTED AS SPECIFIED. ALL BURIED PIPING EXCEPT FOR FLANGED, RESTRAINED JOINT, FUSION WELDED AND SCREW PIPING, SHALL BE PROVIDED WITH A TIE ROD OR A MECHANICAL RESTRAINED JOINT SYSTEM AT ALL DIRECTION CHANGES AND AT ALL JOINTS NECESSARY TO PROVIDE A PROPERLY RESTRAINED SYSTEM.
29. NUMBER AND LOCATION OF UNIONS SHOWN ON PLANS IS ONLY APPROXIMATE, PROVIDE ALL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
30. WHERE A FLANGED COUPLING ADAPTER IS SHOWN, A STANDARD FLANGE SHALL BE USED TO JOIN THE COUPLING ADAPTER.
31. ALL ANCHORS AND FASTENERS SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE NOTED.
32. CONTRACTOR SHALL PROVIDE MEANS TO DEWATER SOILS FOR ALL CONSTRUCTION WORK INCLUDING WORK TO DRAIN, CLEAN, REHABILITATE, REPAIR, MODIFY, OR CONSTRUCT PROPOSED OR EXISTING STRUCTURES.
33. EXISTING PIPING AND EQUIPMENT IS SHOWN LIGHT-LINED AND PROPOSED PIPING, PROPOSED WORK AND PROPOSED EQUIPMENT IS SHOWN HEAVY-LINED.
34. THE PROPOSED LOW PRESSURE LINE (DISCHARGE FORCE MAIN) FROM THE GRINDER PUMP TO THE LOW PRESSURE COLLECTION LINE IS TYPICALLY A 1.25" HDPE LOW PRESSURE LINE AND THIS LINE IS NOT LABELED WITH ITS SIZE.
35. PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL PROVIDE STORMWATER AND EROSION CONTROL MEASURES TO PREVENT PONDING AND CONTROL EROSION AND RUNOFF. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION. NO PONDING OF WATER SHALL BE ALLOWED. THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO PREVENT EROSION AND TO MANAGE STORMWATER SUCH THAT IMPACT TO CONSTRUCTION IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING PROVIDING EQUIPMENT, LABOR, MATERIALS, FILL, ETC. NECESSARY TO REMEDIATE AND/OR RESTORE ALL AREAS IMPACTED BY EROSION AND STORMWATER. SILT FENCING SHALL BE PER FDOT REQUIREMENTS.
36. STORMWATER, RIVERS, OR OTHER BODIES OF WATER CONTAMINATED BY CONTACT WITH DEWATERING DISCHARGE, DIRECTIONAL DRILLING FLUIDS OR SOILS CONTAMINATED BY THE CONTRACTOR, SHALL BE CONTAINED, CAPTURED, AND PROPERLY DISPOSED OF AS REGULATED BY FDEP.
37. THE CONTRACTOR SHALL PREVENT DISTURBANCE TO AND UNDERMINING OF EXISTING ADJACENT STRUCTURES, ROADS, SLABS, PIPING, AND OTHER UTILITIES DURING CONSTRUCTION. ANY EXCAVATION WITHIN A 1 TO 1 SLOPE OF THE BOTTOM OF THE EXCAVATION SHALL HAVE SHORING, SHEETING, OR SOME FORM OF BRACING TO PREVENT THE EXISTING SITE STRUCTURES FROM BEING DISTURBED. THE COSTS OF THESE ADDITIONAL SHORING/BRACING METHODS ARE TO BE INCLUDED IN THE BASE BID AND WILL BE INSTALLED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
38. THE CONTRACTOR SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, PIPING, GRASSING, DITCHING, FENCES, SIGNS AND OTHER IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED OR DAMAGED DURING CONSTRUCTION, AS A RESULT OF CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
39. CONTRACTOR'S LAYDOWN AND STORAGE AREAS TO BE PROPERLY GRASSED AND RESTORED PRIOR TO THE PROJECT COMPLETION.
40. CONTRACTOR TO UNCOVER ALL LINES, TIE-INS AND CONNECTIONS TO DETERMINE PIPE SIZE, PIPE MATERIAL AND EXISTING CONDITIONS PRIOR TO ORDERING ANY MATERIALS.
41. CONTRACTOR TO GRASS OR SOD ALL AREAS DISTURBED BY THEIR CONSTRUCTION ACTIVITIES AS REQUIRED, AT NO ADDITIONAL COST TO THE OWNER, TO PREVENT ANY SOIL EROSION.
42. FINAL GRADING SHALL PROVIDE FOR PROPER DRAINAGE WITH NO PONDING WATER.
43. LOCATIONS OF ALL WASTEWATER LINES, VALVES, CLEANOUTS, AND DIRECTIONAL DRILLS SHALL BE COORDINATED

44. ALL DIRECTIONAL DRILL PITS AND APPURTENANCES SHALL BE CONSTRUCTED WITHIN COUNTY DOT OR STATE OF FLORIDA DOT RIGHTS-OF-WAY.
45. AS REQUIRED TO INSTALL THE WORK, THE CONTRACTOR SHALL DEWATER, HAND EXCAVATE, SHORE-UP TRENCHES, STABILIZE UTILITIES INCLUDING UTILITY POLES AND ROADS, AND PROVIDE SHEET PILING AT NO ADDITIONAL COST TO THE OWNER.
46. CONTRACTOR TO REVIEW ALL STANDARD DETAILS AND INCORPORATE THEM INTO THE WORK AT ALL LOCATIONS THAT THEY APPLY, EVEN IF THE STANDARD DETAIL IS NOT REFERENCED.
47. THE CONTRACTOR SHALL COMPLY WITH ALL TERMS, CONDITIONS, AND REQUIREMENTS OF ALL APPLICABLE PERMITS, INCLUDING, BUT NOT LIMITED TO FDEP, FDOT, RAILROAD, COUNTY DOT, AND WATER MANAGEMENT DISTRICT PERMITS FOR THE PROJECT. ANY FINES LEVIED BY THE PERMITTING AGENCIES RESULTING FROM THE CONTRACTOR'S NON-COMPLIANCE WITH THE TERMS, CONDITIONS, AND REQUIREMENTS OF THE PERMIT WILL BE PAID BY THE CONTRACTOR. IF THE CONTRACTOR DOES NOT PAY THE FINE WITHIN 30 DAYS, THE OWNER MAY DEDUCT THE FINE FROM A PAY REQUEST AND MAKE THIS PAYMENT FOR THE CONTRACTOR.
48. WASTEWATER SERVICE CARDS MUST BE PROVIDED FOR ALL SERVICES. VALVE AND CLEANOUT CARDS MUST BE SUPPLIED FOR EVERY VALVE AND CLEANOUT INSTALLED. THE CARDS MUST BE COMPLETE AND SIGNED BY THE CONTRACTOR AND RESIDENT ENGINEER TO BE PAID FOR. THE CARDS WILL BE THE BASIS OF PAYMENT FOR THESE ITEMS.
49. THE BRANCH OPENING OF ANY TEE THAT HAS A PLUG FOR A FUTURE CONNECTION SHALL NOT BE OBSTRUCTED BY EXISTING UTILITY INTERFACE. ROLL TEE UP AT A 45 DEGREE ANGLE TO AVOID ANY INTERFERENCE.
50. THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE CALL OF FLORIDA" AT LEAST 2 DAYS PRIOR TO ANY DIGGING WORK AND AT LEAST 10 DAYS BEFORE DIGGING IN WATER TO HAVE ALL EXISTING UTILITIES LOCATED. THE PHONE NUMBER IS 1-800-432-4770 AND THE WEBSITE IS WWW.CALLSUNSHINE.COM.
51. CONTRACTOR IS TO MAINTAIN EXISTING GRADES AND RUNOFF PATTERNS TO PREVENT FLOODING OF PUBLIC AND PRIVATE FACILITIES ADJACENT TO PROJECT.
52. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED 4-INCH SCHEDULE 40 PVC GRAVITY SEWER SERVICE LINES, BENDS, CLEANOUTS, TIE-INS, AND ETC., AS REQUIRED, TO TIE SEPTIC TANK INFLUENT LINES TO THE GRINDER PUMP STATIONS. MINIMUM SLOPE ON THE GRAVITY SEWER LINES IS 1.0%. CONTRACTOR TO DETERMINE A REASONABLE LAYOUT OF ALL GRAVITY SEWER SERVICE LINES. TYPICALLY NO GRAVITY SEWER SERVICE LINES ARE SHOWN ON THE DESIGN DRAWINGS.
53. IT IS THE OWNER'S INTENT TO PLACE FORCE MAIN, VALVES, AND FITTINGS IN AREAS NOT COVERED BY CONCRETE OR ASPHALT UNLESS THERE IS NO OTHER OPTION. SYMBOLS FOR VALVES, CLEANOUTS, PIPE, AND FITTINGS ON THE LINE WORK (SINGLE LINE) DRAWINGS ARE TYPICALLY NOT TO SCALE. FORCE MAIN SHOULD BE INSTALLED AS CLOSE TO THE RIGHT-OF-WAY LINE AS PRACTICABLE. COORDINATE ACTUAL LOCATION OF VALVES AND FITTINGS WITH THE ENGINEER 5 DAYS BEFORE INSTALLATION.

LAST SAVED: 4/2/2012 10:58 AM MTEBOW

DESIGNED	RBEST			
DRAWN	MTEBOW			
CHECKED	JHORVATH			
LTR.	DATE	REVISIONS	BY	APPRD.



**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM - PHASE 2, PART 2
TAYLOR COUNTY, FL**

GENERAL NOTES

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H. HORVATH P.E. #47093	SCALE	DWG. NO.
	NONE	G-3

BID DOCUMENTS

Plotted: 4/26/12 11:39am MTEBOW

LAST SAVED: 4/2/2012 12:24 PM MTEBOW

LEGEND

— T —	OVERHEAD TELEPHONE LINE	ⓔ	EXISTING ELECTRIC METER
— FOC —	UNDERGROUND FIBEROPTIC CABLE	Ⓢ	EXISTING SEPTIC TANK
— UT —	UNDERGROUND TELEPHONE LINE	●	PROPOSED GRINDER PUMP STATION AND DISCHARGE PIPEING (SIMPLEX - 5 FT DEEP) (15200P)
— P —	OVERHEAD POWER LINE	————	PROPOSED SEWER MAIN
— TV —	OVERHEAD TELEVISION CABLE	————	PROPOSED SEWER SERVICE LINE (1.25" DIAMETER UNLESS OTHERWISE NOTED)
— W —	UNDERGROUND WATER LINE	Ⓜ	PROPOSED SEWER CLEANOUT (TERMINAL) (15208P)
— x — x —	FENCE LINE	Ⓜ	PROPOSED SEWER CLEANOUT (IN-LINE) (15209P)
— — — —	CULVERT	Ⓜ	PROPOSED SEWER CLEANOUT (OFF-LINE) (15210P)
Ⓜ	WATER VALVE	▶	PROPOSED REDUCER
Ⓜ	FIRE HYDRANT	Ⓜ	PROPOSED GATE VALVE (15004)
Ⓜ	WATER METER		PROPOSED PLUG
Ⓜ	DRAINAGE MANHOLE	— — — —	PROPOSED ELECTRIC LINE
Ⓜ	TELEPHONE MANHOLE	▨	LIMEROCK RESTORATION (02004)
Ⓜ	TELEPHONE PEDESTAL	▨	CONCRETE RESTORATION (02005)
Ⓜ	TREE (SIZE AND TYPE AS NOTED)	1' — R/W LINE	SERVICE STUBOUT FOR FUTURE CONNECTION (15203P)
Ⓜ	WOOD UTILITY POLE	————	MATCHLINE
Ⓜ	CONCRETE UTILITY POLE	————	SILT FENCE (02001)
Ⓜ	GUY WIRE ANCHOR	▬	DIRECTIONAL DRILL (LENGTH OF EACH DRILL TO BE DETERMINED BY CONTRACTOR AND TOTAL PRICE TO BE INCLUDED IN CONTRACTOR'S BID) (15800) (15801)
Ⓜ	WOOD LIGHT POLE	— — — —	PROPERTY / ROW LINE
Ⓜ	METAL LIGHT POLE		
Ⓜ	CONCRETE LIGHT POLE		
Ⓜ	SPAN POLE		
Ⓜ	CONCRETE TRAFFIC SIGNAL POLE		
Ⓜ	ELECTRIC BOX		
Ⓜ	TELEVISION CABLE PEDESTAL		
▨	CONCRETE SURFACE		
▨	BRICK SURFACE		
▨	LIMEROCK SURFACE		
▨	ASPHALT SURFACE		
▨	PROPOSED GRATING		
▨	EXISTING GRATING		

LTR.	DATE	REVISIONS	BY	APPR.

DESIGNED	RBEST
DRAWN	MTEBOW
CHECKED	JHORVATH

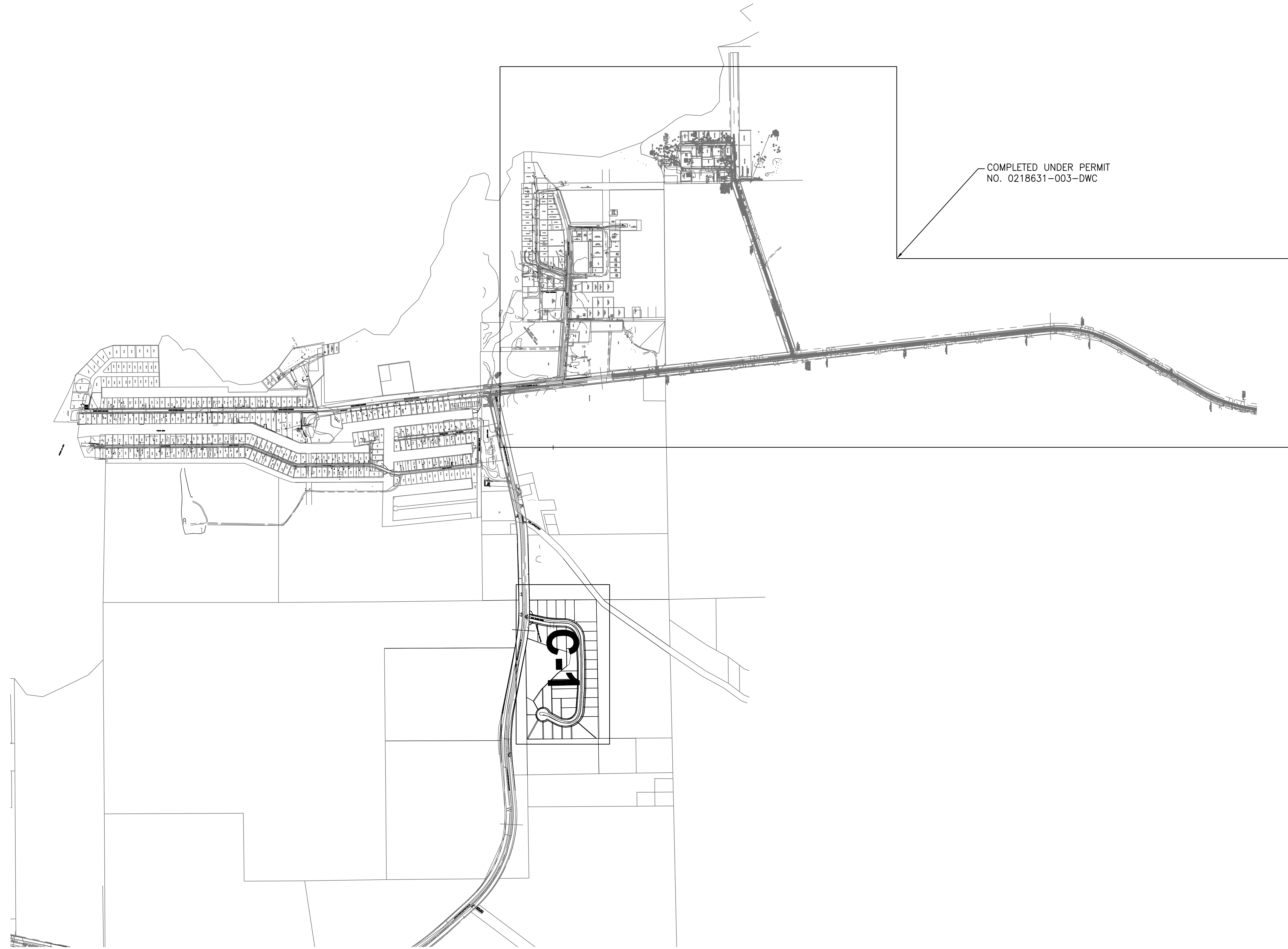
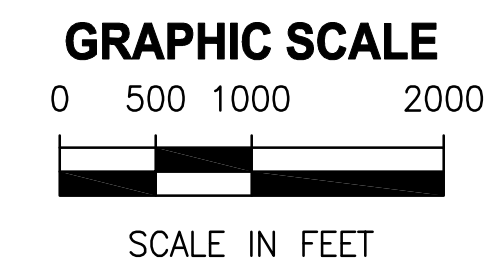
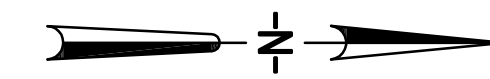


**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM - PHASE 2, PART 2
TAYLOR COUNTY, FL**

LEGEND

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H. HORVATH P.E. #47093	SCALE	DWG. NO.
	NONE	G-4

BID DOCUMENTS



Plotted: 4/26/12 11:54am MTebow

LAST SAVED: 4/9/2012 12:33 PM UTILITY

BID DOCUMENTS

LTR.	DATE	REVISIONS	BY	APPRD.

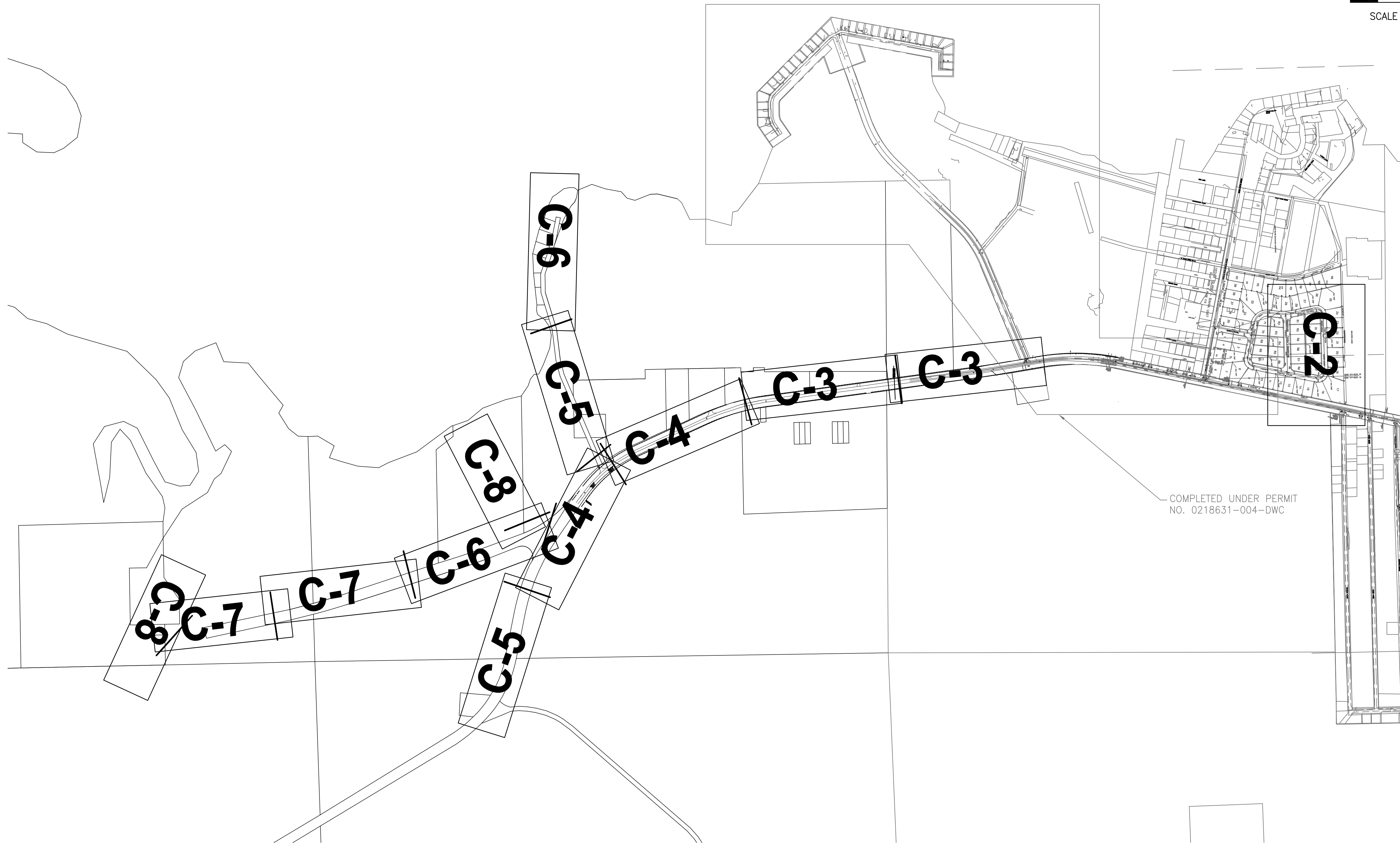
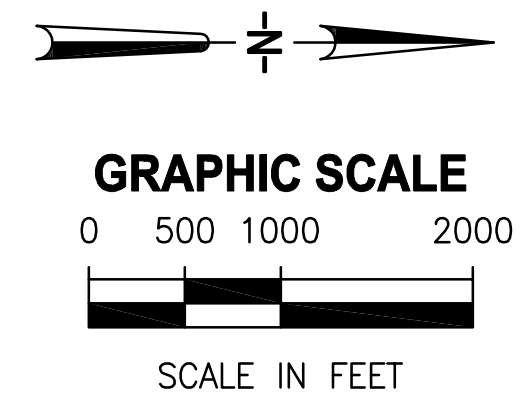
DESIGNED RROSARIO
 DRAWN RROSARIO
 CHECKED JHORVATH

730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821

**TAYLOR COASTAL CENTRALIZED
 WASTEWATER SYSTEM - PHASE 2, PART 2
 TAYLOR COUNTY, FL**

KEY MAP

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H. HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	G-5



Plotted: 4/26/12 12:04pm MTebov

LAST SAVED: 4/9/2012 12:33 PM UTILITY

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DRAWN	RROSARIO
CHECKED	JHORVATH

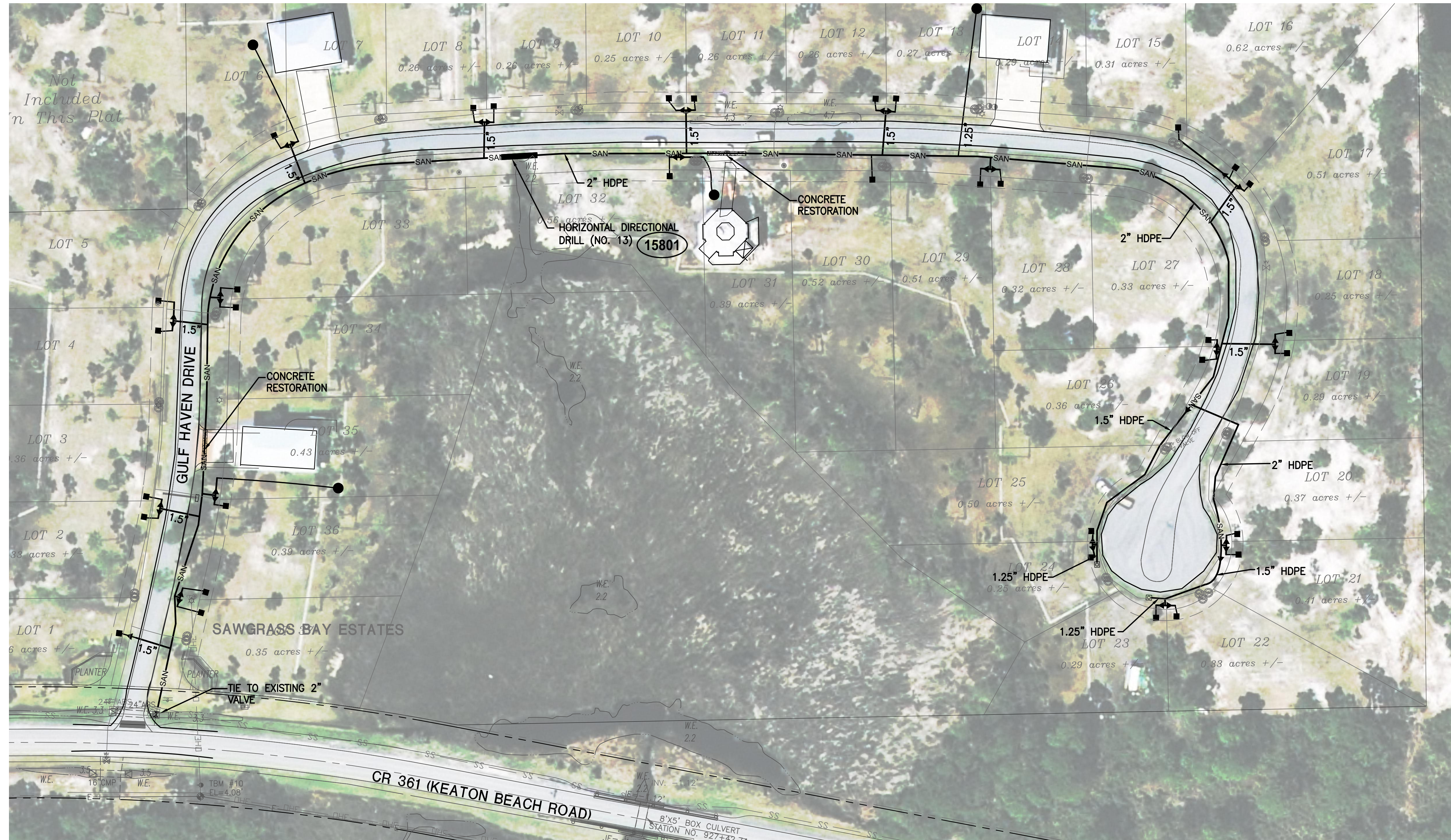


**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM - PHASE 2, PART 2
TAYLOR COUNTY, FL**

KEY MAP

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H. HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	G-6

Plotted: 4/27/12 10:24am MTebow



NOTES:

1. THE FINISHED GRADE ELEVATION OF ALL NEW VALVES, COVERS, BOXES, AND APPURTENANCES SHALL NOT BE GREATER THAN EXISTING GRADE ELEVATION OR MORE THAN 1/2" BELOW GRADE.
2. ALL CROSSINGS UNDER GULF HAVEN DRIVE ARE BY HORIZONTAL DIRECTIONAL DRILL.

LAST SAVED: 4/27/2012 9:49 AM MTEBOW

DESIGNED	RROSARIO			
DRAWN	RROSARIO			
CHECKED	JHORVATH			
LTR.	DATE	REVISIONS	BY	APPRD.



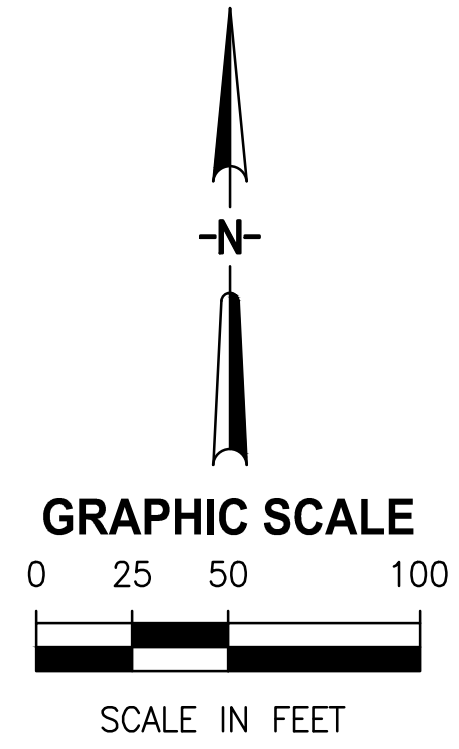
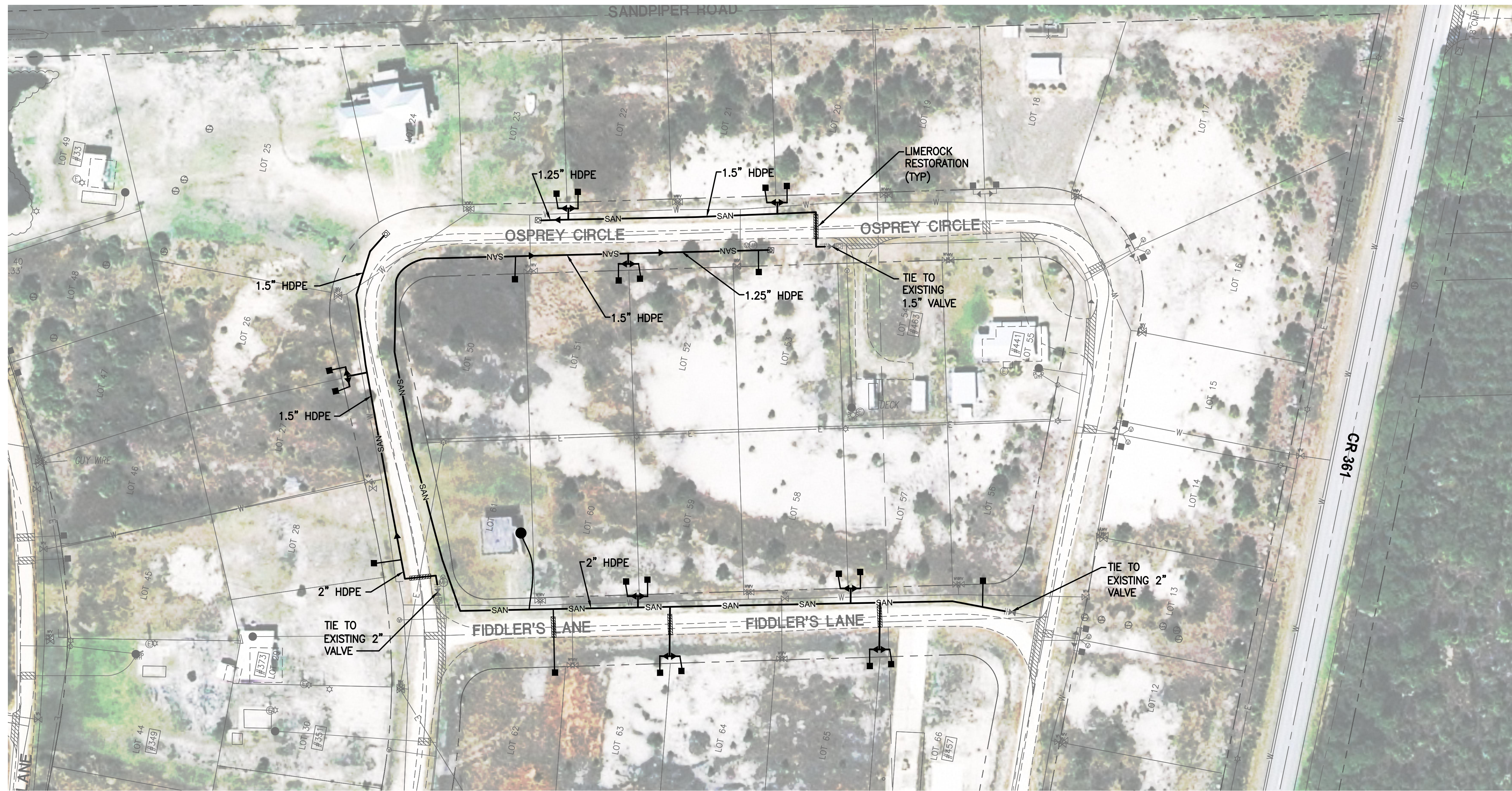
TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE 2, PART 2 TAYLOR COUNTY, FL

SANITARY SEWER PLAN

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H. HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	C-1

BID DOCUMENTS

Plotted: 4/27/12 10:25am MTebow



NOTES:

1. THE FINISHED GRADE ELEVATION OF ALL NEW VALVES, COVERS, BOXES, AND APPURTENANCES SHALL NOT BE GREATER THAN EXISTING GRADE ELEVATION OR MORE THAN 1/2" BELOW GRADE.

LAST SAVED: 4/27/2012 9:52 AM MTEBOW

LTR.	DATE	REVISIONS	BY	APPROD.

DESIGNED	RROSARIO
DRAWN	RROSARIO
CHECKED	JHORVATH



**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM - PHASE 2, PART 2
TAYLOR COUNTY, FL**

SANITARY SEWER PLAN

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	C-2

BID DOCUMENTS

Plotted: 4/27/12 10:27am MTebow



NOTES:

1. THE FINISHED GRADE ELEVATION OF ALL NEW VALVES, COVERS, BOXES, AND APPURTENANCES SHALL NOT BE GREATER THAN EXISTING GRADE ELEVATION OR MORE THAN 1/2" BELOW GRADE.
2. CONTRACTOR SHALL REMOVE AND RESET ROADWAY SIGNS AS REQUIRED.

LAST SAVED: 4/27/2012 9:47 AM MTEBOW



BID DOCUMENTS

LTR.	DATE	REVISIONS	BY	APPROD.

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DRAWN	RROSARIO
CHECKED	JHORVATH

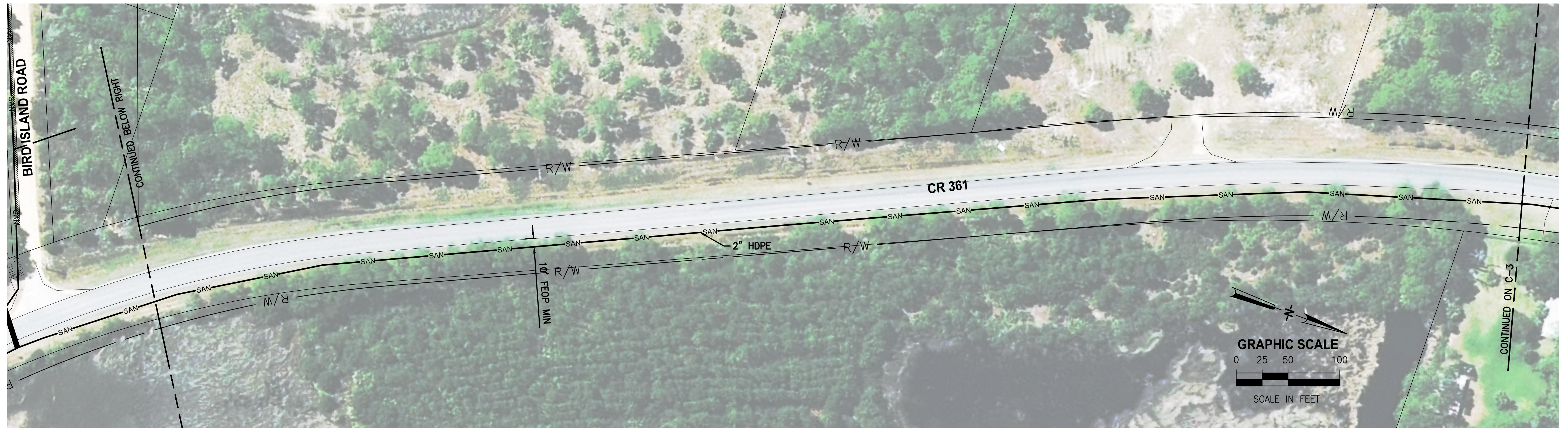


TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM - PHASE 2, PART 2
TAYLOR COUNTY, FL

SANITARY SEWER PLAN

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	C-3

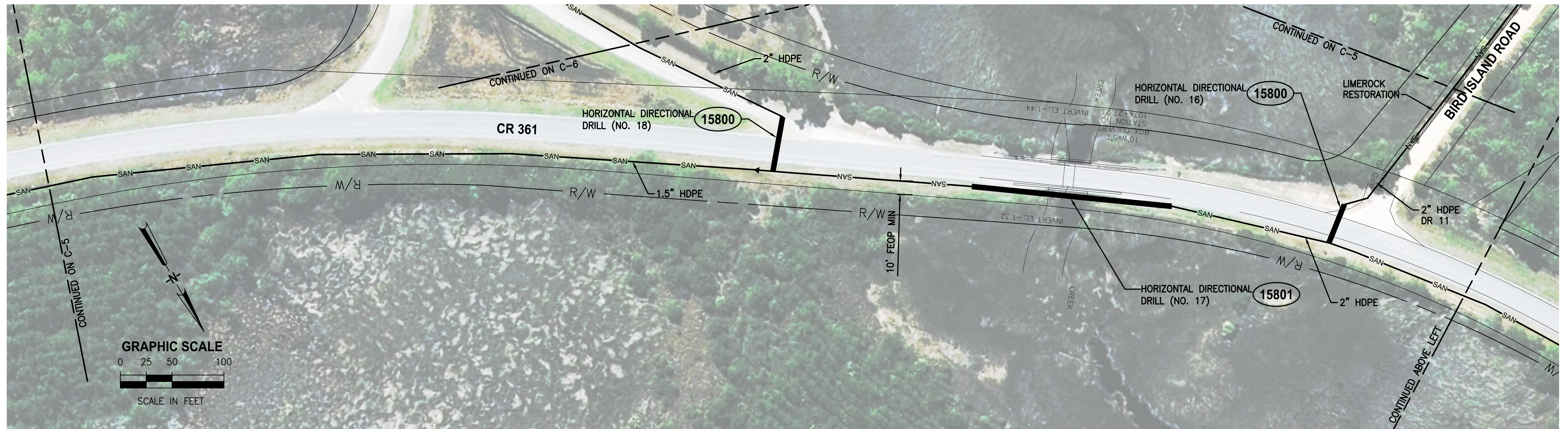
Plotted: 4/27/12 10:28am MTebow



NOTES:

1. THE FINISHED GRADE ELEVATION OF ALL NEW VALVES, COVERS, BOXES, AND APPURTENANCES SHALL NOT BE GREATER THAN EXISTING GRADE ELEVATION OR MORE THAN 1/2" BELOW GRADE.
2. ALL 2" FORCE MAIN ON BIRD ISLAND ROAD SHALL BE HDPE DR 11.
3. THE FORCE MAIN ON BIRD ISLAND ROAD SHALL BE INSTALLED BETWEEN 15' AND 19' FROM CURRENT ROADWAY CENTERLINE (PREFERABLY 19'). IN AREAS WHERE THERE ARE CONFLICTS WITH LARGE TREES OR THE MARSH, THE FORCE MAIN SHALL BE INSTALLED AT THE FURTHEST PRACTICAL DISTANCE FROM THE CURRENT ROADWAY CENTERLINE. PRIOR TO INSTALLATION OF FORCE MAIN, CONTRACTOR SHALL FIRST STAKE OUT ROADWAY CENTERLINE AND PROPOSED FORCE MAIN LOCATION AND OBTAIN APPROVAL FROM ENGINEER AND TAYLOR COUNTY ROADWAY DEPARTMENT.
4. CONTRACTOR SHALL REMOVE AND RESET ROADWAY SIGNS AS REQUIRED.

LAST SAVED: 4/27/2012 9:37 AM MTEBOW



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DRAWN	RROSARIO
CHECKED	JHORVATH

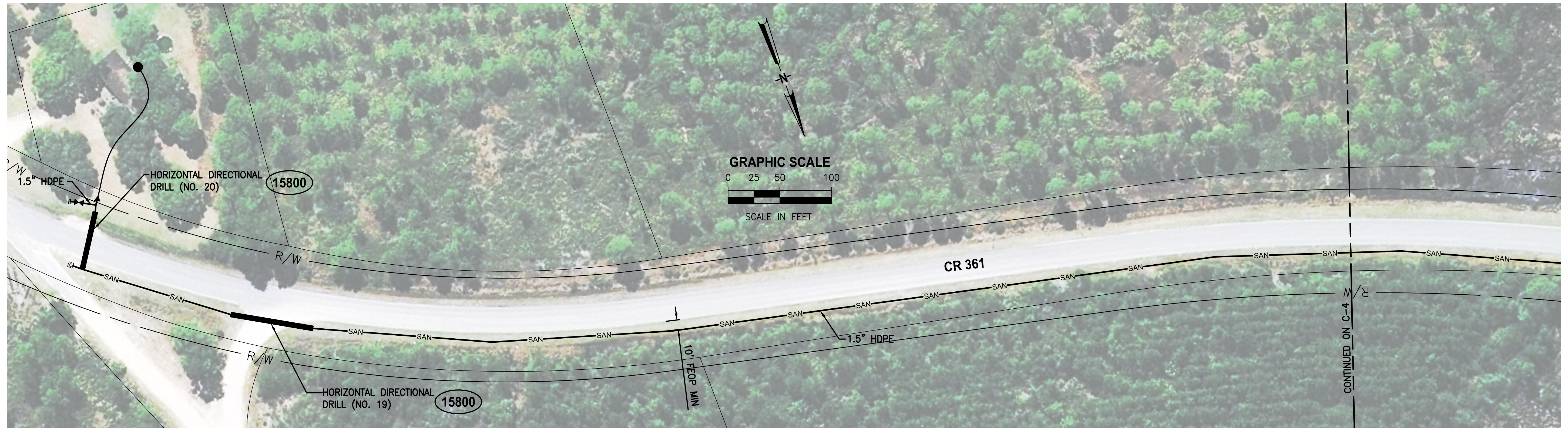


TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE 2, PART 2
TAYLOR COUNTY, FL

SANITARY SEWER PLAN

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	C-4

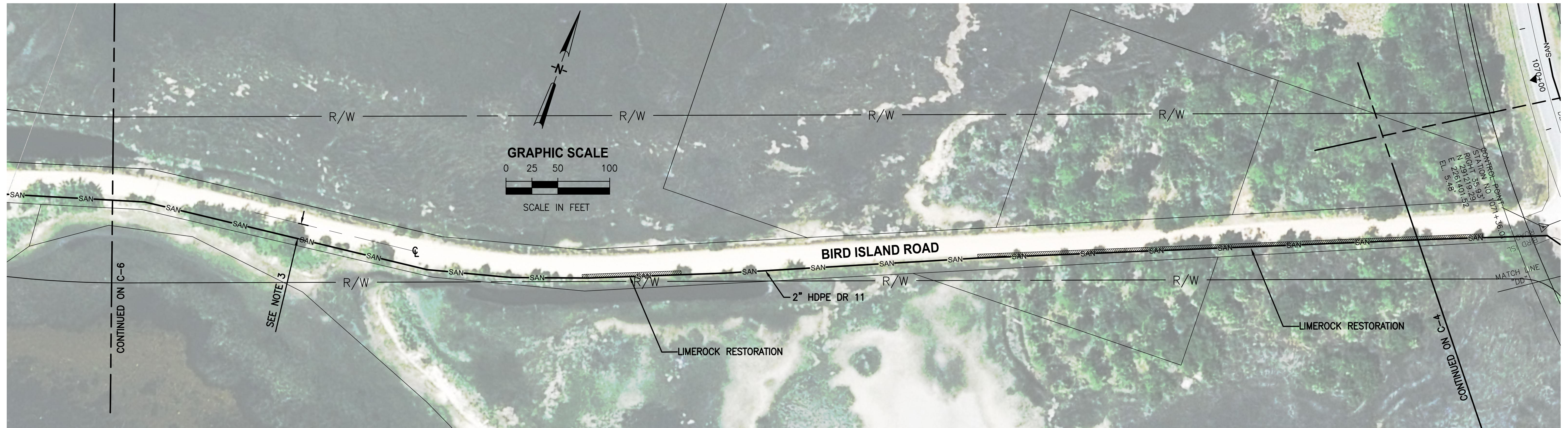
Plotted: 4/27/12 10:23am MTebow



NOTES:

1. THE FINISHED GRADE ELEVATION OF ALL NEW VALVES, COVERS, BOXES, AND APPURTENANCES SHALL NOT BE GREATER THAN EXISTING GRADE ELEVATION OR MORE THAN 1/2" BELOW GRADE.
2. ALL 2" FORCE MAIN ON BIRD ISLAND ROAD SHALL BE HDPE DR 11.
3. THE FORCE MAIN ON BIRD ISLAND ROAD SHALL BE INSTALLED BETWEEN 15' AND 19' FROM CURRENT ROADWAY CENTERLINE (PREFERABLY 19'). IN AREAS WHERE THERE ARE CONFLICTS WITH LARGE TREES OR THE MARSH, THE FORCE MAIN SHALL BE INSTALLED AT THE FURTHEST PRACTICAL DISTANCE FROM THE CURRENT ROADWAY CENTERLINE. PRIOR TO INSTALLATION OF FORCE MAIN, CONTRACTOR SHALL FIRST STAKE OUT ROADWAY CENTERLINE AND PROPOSED FORCE MAIN LOCATION AND OBTAIN APPROVAL FROM ENGINEER AND TAYLOR COUNTY ROADWAY DEPARTMENT.
4. CONTRACTOR SHALL REMOVE AND RESET ROADWAY SIGNS AS REQUIRED.

LAST SAVED: 4/27/2012 9:53 AM MTEBOW



BID DOCUMENTS

DESIGNED	RROSARIO			
DRAWN	RROSARIO			
CHECKED	JHORVATH			
LTR.	DATE	REVISIONS	BY	APPRD.

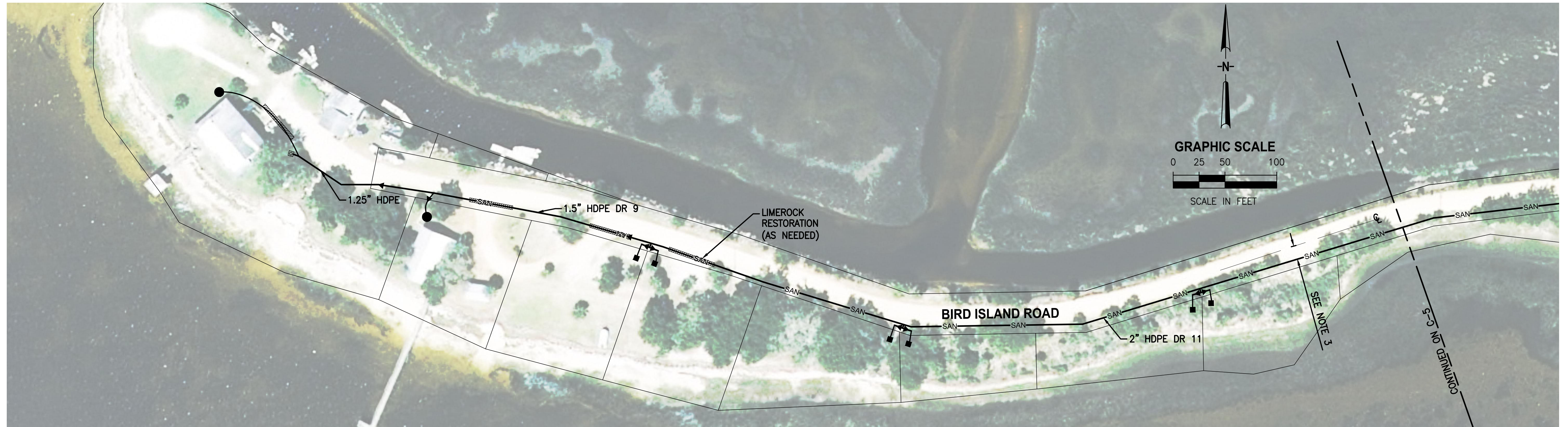


TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE 2, PART 2 TAYLOR COUNTY, FL

SANITARY SEWER PLAN

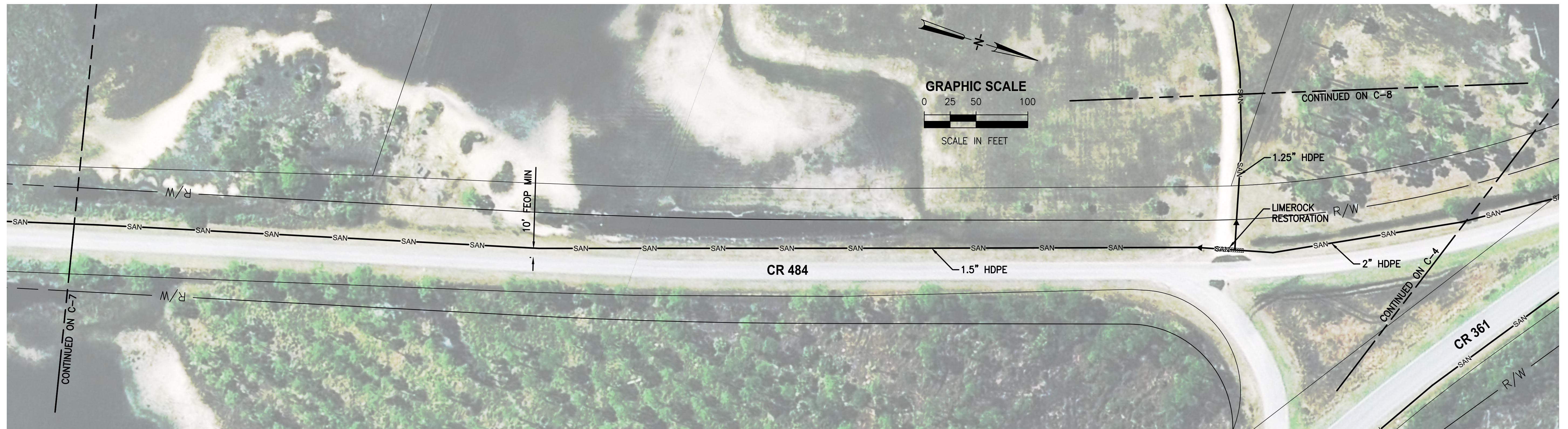
CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	C-5

Plotted: 4/27/12 10:22am MTeBOW



NOTES:

1. THE FINISHED GRADE ELEVATION OF ALL NEW VALVES, COVERS, BOXES, AND APPURTENANCES SHALL NOT BE GREATER THAN EXISTING GRADE ELEVATION OR MORE THAN 1/2" BELOW GRADE.
2. ALL 2" FORCE MAIN ON BIRD ISLAND ROAD SHALL BE HDPE DR 11.
3. THE FORCE MAIN ON BIRD ISLAND ROAD SHALL BE INSTALLED BETWEEN 15' AND 19' FROM CURRENT ROADWAY CENTERLINE (PREFERABLY 19'). IN AREAS WHERE THERE ARE CONFLICTS WITH LARGE TREES OR THE MARSH, THE FORCE MAIN SHALL BE INSTALLED AT THE FURTHEST PRACTICAL DISTANCE FROM THE CURRENT ROADWAY CENTERLINE. PRIOR TO INSTALLATION OF FORCE MAIN, CONTRACTOR SHALL FIRST STAKE OUT ROADWAY CENTERLINE AND PROPOSED FORCE MAIN LOCATION AND OBTAIN APPROVAL FROM ENGINEER AND TAYLOR COUNTY ROADWAY DEPARTMENT.



LAST SAVED: 4/27/2012 9:53 AM MTEBOW

BID DOCUMENTS

LTR.	DATE	REVISIONS	BY	APPROD.

DESIGNED	RROSARIO
DRAWN	RROSARIO
CHECKED	JHORVATH



**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM - PHASE 2, PART 2
TAYLOR COUNTY, FL**

SANITARY SEWER PLAN

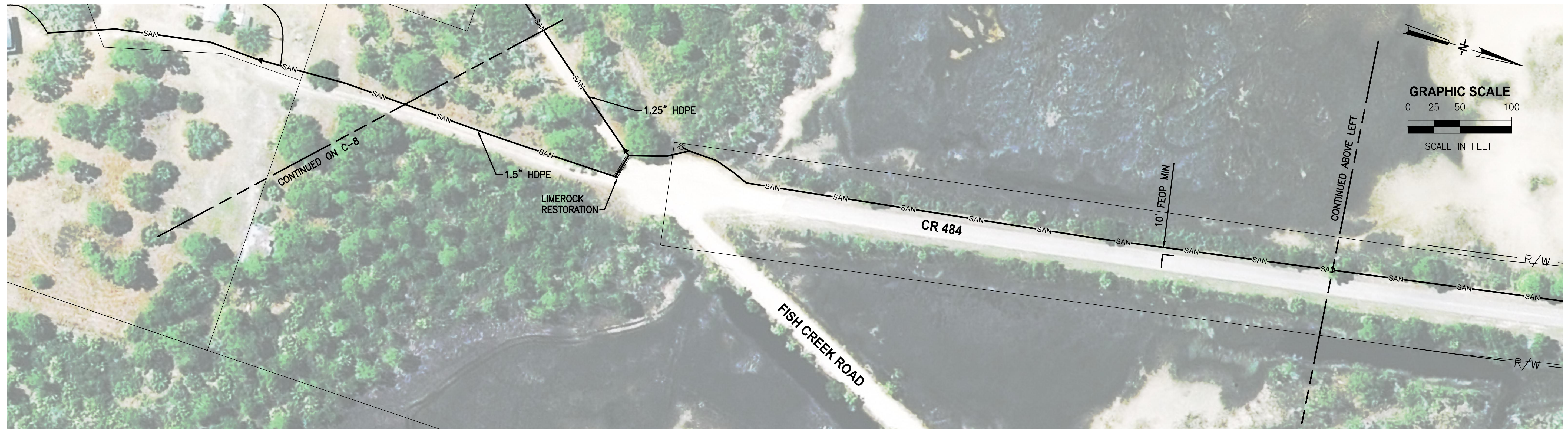
CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH P.E. #47093	SCALE	DWG. NO.
	AS NOTED	C-6

Plotted: 4/27/12 10:28am MTebow



NOTES:

1. THE FINISHED GRADE ELEVATION OF ALL NEW VALVES, COVERS, BOXES, AND APPURTENANCES SHALL NOT BE GREATER THAN EXISTING GRADE ELEVATION OR MORE THAN 1/2" BELOW GRADE.



LAST SAVED: 4/27/2012 9:35 AM MTEBOW

BID DOCUMENTS

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	RROSARIO
DRAWN	RROSARIO
CHECKED	JHORVATH



TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE 2, PART 2
TAYLOR COUNTY, FL

SANITARY SEWER PLAN

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	C-7

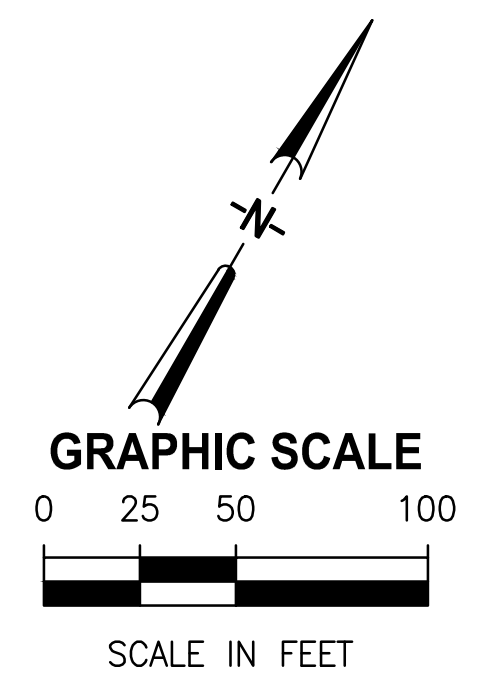
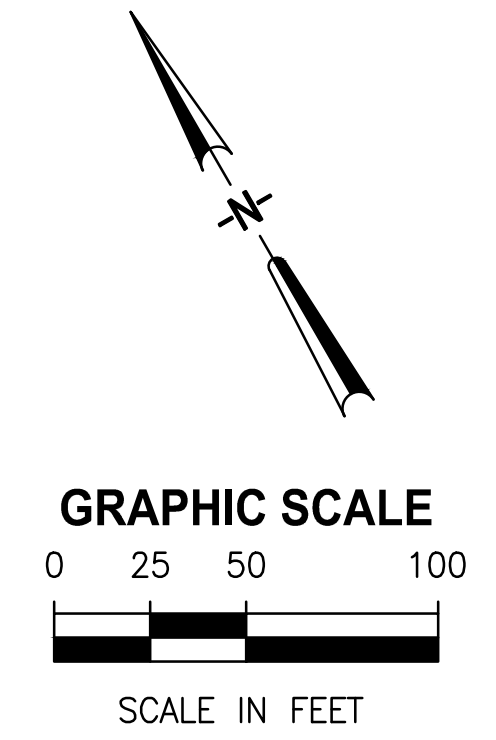
DATE	PROJECT NO.
APRIL 2012	20450-002-03
SCALE	DWG. NO.
AS NOTED	C-7

Plotted: 4/27/12 10:21am MTebow



NOTES:

1. THE FINISHED GRADE ELEVATION OF ALL NEW VALVES, COVERS, BOXES, AND APPURTENANCES SHALL NOT BE GREATER THAN EXISTING GRADE ELEVATION OR MORE THAN 1/2" BELOW GRADE.



LAST SAVED: 4/26/2012 6:01 PM MTEBOW

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	RROSARIO
DRAWN	RROSARIO
CHECKED	JHORVATH



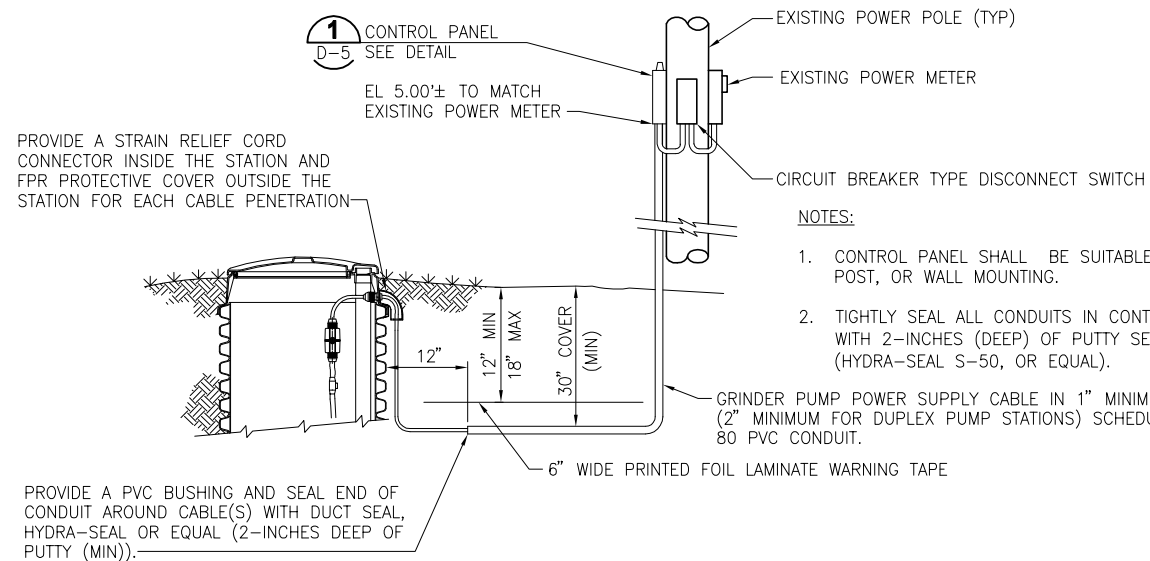
**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM - PHASE 2, PART 2
TAYLOR COUNTY, FL**

SANITARY SEWER PLAN

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH P.E. #47093	SCALE	DWG. NO.
	AS NOTED	C-8

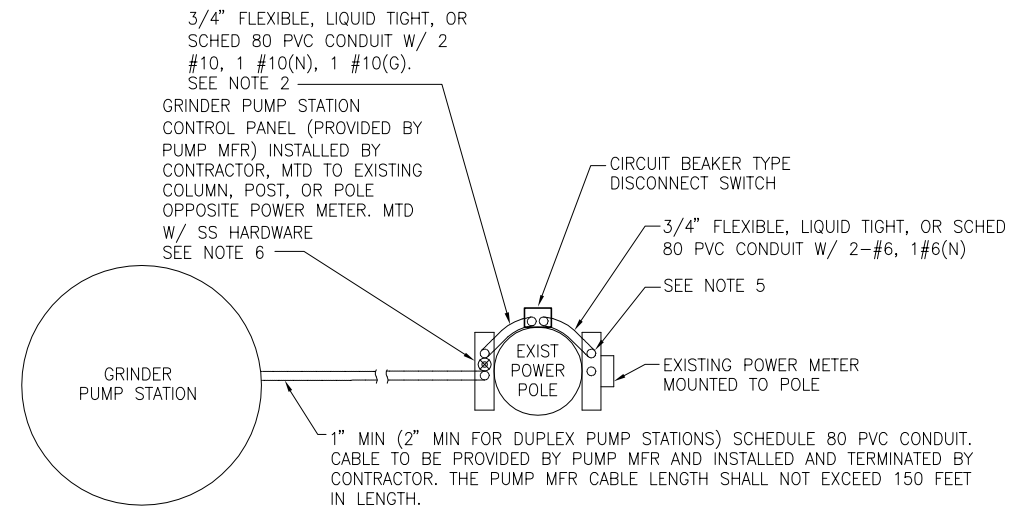
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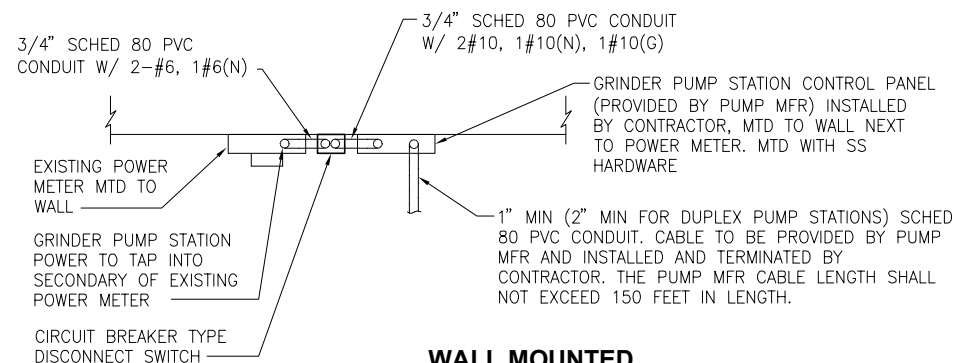


TYPICAL GRINDER PUMP STATION ELECTRICAL INSTALLATION

NTS



POLE MOUNTED
(COLUMN MOUNTING SIMILAR)



WALL MOUNTED

GRINDER PUMP STATION CONTROL PANEL ELECTRICAL PLAN

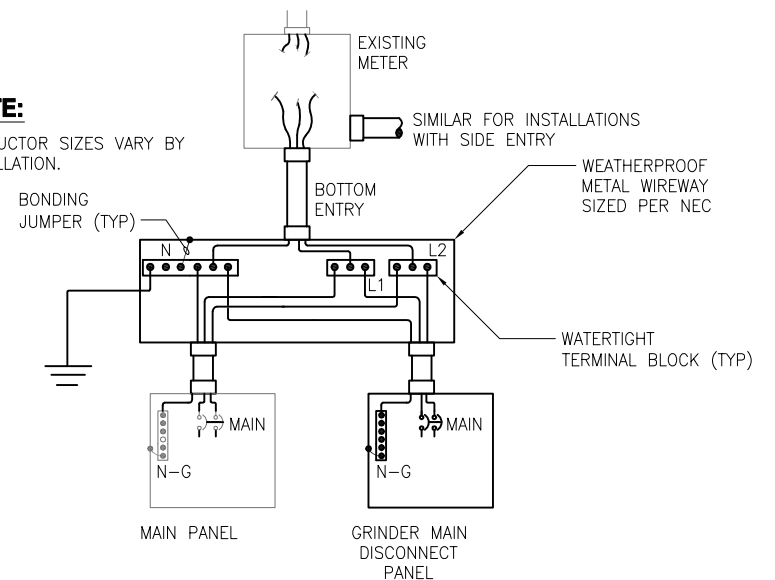
NTS

NOTES FOR CIRCUIT BREAKER REQUIREMENTS FOR GRINDER PUMPS FOR SERVICES RATED 200 AMPS OR LESS:

- INSTALL A 2-POLE, 30 AMP ENCLOSED "MAIN" CIRCUIT BREAKER (SIMPLEX AND DUPLEX). THE CIRCUIT BREAKER DISCONNECT SHALL BE GROUPED WITH THE HOUSEHOLD MAIN DISCONNECT IN ACCORDANCE WITH NEC 230.72, OR IDENTIFIED IN ACCORDANCE WITH NEC 230.2(E) AND 225.37. THE CIRCUIT BREAKER SHALL BE RATED 10KAIC SYMMETRICAL MINIMUM AND SHALL BE HOUSED IN A NEMA 3R WEATHERPROOF ENCLOSURE. THE CIRCUIT BREAKER ENCLOSURE SHALL BE CAPABLE OF BEING PADLOCKED WITH THE CIRCUIT BREAKER IN EITHER THE OPEN OR CLOSED POSITION.
- INSTALL 2-#10 PHASE CONDUCTORS, 1-#10 NEUTRAL, AND 1-#10 GROUND IN THE 3/4" CONDUIT FROM THE CIRCUIT BREAKER TO THE GRINDER PUMP CONTROL PANEL, UP TO A MAXIMUM TOTAL DISTANCE OF 300 FEET FOR SIMPLEX PUMPS, AND 200 FEET FOR DUPLEX PUMPS, ON 240 VOLT, SINGLE PHASE CIRCUIT BREAKER. FOR GREATER DISTANCES, UPSIZE CABLE AND CONDUIT AS REQUIRED TO MAINTAIN AN OVERALL VOLTAGE DROP OF LESS THAN 3%.
- CONTRACTOR TO PROVIDE MASTER SYSTEM PADLOCKS AND KEYS FOR ALL CONTROL PANELS AND CIRCUIT BREAKER ENCLOSURES PROVIDED. KEYS SHALL MATCH THE CLIENT'S EXISTING KEYING SYSTEM
- CONTRACTOR TO PROVIDE AND INSTALL ALL EQUIPMENT AND ACCESSORIES NECESSARY FOR A COMPLETE WORKING INSTALLATION.
- FOR SERVICE DROPS 100 AMPS AND LESS, THE CONTRACTOR SHALL UPGRADE THE ENTIRE SERVICE DROP TO 200 AMP CAPACITY. THE CONTRACTOR SHALL TAP THE LOAD SIDE POWER CONDUCTORS IN THE METER ENCLOSURE WITH BURNDY TYPE BIPC TAP CONNECTORS OR EQUAL, THE CONTRACTOR SHALL PERFORM ALL NECESSARY CONDUCTOR FILL CALCULATIONS IN ACCORDANCE WITH NFPA 70 376.56 (A). IF THE CROSS SECTIONAL AREA OF THE METER ENCLOSURE IS NOT SUFFICIENT TO ACCOMMODATE THE TAP CONNECTORS, BUT THE CAPACITY OF THE SERVICE IS ADEQUATE TO SERVE THE ADDITIONAL LOADS, THE CONTRACTOR SHALL EITHER UPGRADE THE METER ENCLOSURE TO A 200 AMP ENCLOSURE, OR INSTALL A WIREWAY BETWEEN THE UTILITY METER AND THE TWO LOAD SIDE PANELS. IF THE CAPACITY OF THE SERVICE IS NOT SUFFICIENT TO SERVE THE ADDITIONAL LOADS, THE ENTIRE SERVICE DROP SHALL BE UPGRADED TO 200 AMPS.
- IN NUMEROUS INSTANCES, THE GRINDER PUMP STATION WILL BE LOCATED ON THE OPPOSITE SIDE OF THE HOUSE FROM THE UTILITY METER. IN THOSE INSTANCES, THE CONTRACTOR SHALL LOCATE THE CONTROL PANEL ON THE COLUMN, POST OR WALL NEAREST THE GRINDER PUMP STATION. THE CONTROL PANEL SHALL BE LOCATED IN SIGHT OF, AND WITHIN 10-25 FEET OF THE GRINDER PUMP STATION. SEE CIVIL PLAN SHEETS FOR METER AND GRINDER PUMP STATION LOCATIONS.
- NOTE THAT MOST OF THE INSTALLATIONS ARE ON STILT HOMES. THE CONTRACTOR SHALL ROUTE CONDUITS OVERHEAD OR UNDERGROUND AS REQUIRED TO SUPPLY POWER TO THE CONTROL PANELS. THE CONTRACTOR SHALL COORDINATE ROUTING OF CONDUITS WITH THE ENGINEER AND THE HOME OWNER.
- IF THE SERVICE DROP RISER, WEATHERHEAD, AND WIRING ARE NOT SUFFICIENT TO MEET THE REQUIRED LOAD, THE CONTRACTOR SHALL UPGRADE THE SERVICE DROP WIRING ACCORDINGLY, AND COORDINATE WITH THE POWER COMPANY TO HAVE THE SERVICE DROP WIRING UPGRADED. IF UNDERGROUND SERVICE DROP WIRING IS NOT SUFFICIENT TO MEET THE REQUIRED LOAD, THE CONTRACTOR SHALL HAVE THE UNDERGROUND CONDUIT AND WIRING UPGRADED BY THE POWER COMPANY. THE CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH UPGRADING THE SERVICE DROPS, INCLUDING ALL CHARGES BY THE POWER COMPANY.
- THERE MAY BE SOME INSTALLATIONS WHERE THE EXISTING SERVICE CONSISTS OF A COMBINATION METER-PANEL. IN THESE CASES, THE CONTRACTOR SHALL REPLACE THE EXISTING COMBINATION METER-PANEL WITH A SEPARATE 200A METER AND PANELBOARD.
- THE PORTIONS OF CONDUIT RUNS BELOW 2 FEET BELOW FINISHED GRADE MAY BE SCHEDULE 40 PVC. ABOVEGROUND CONDUITS SHALL BE SUPPORTED EVERY 4 FEET (MAXIMUM).

NOTE:

CONDUCTOR SIZES VARY BY INSTALLATION.



WIREWAY INSTALLATION DIAGRAM

NTS - SEE NOTE 5

LAST SAVED: 4/2/2012 9:10 AM PSIMMS

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	KGANSKOP
DRAWN	KGANSKOP
CHECKED	MKOROS



TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE III TAYLOR COUNTY, FL

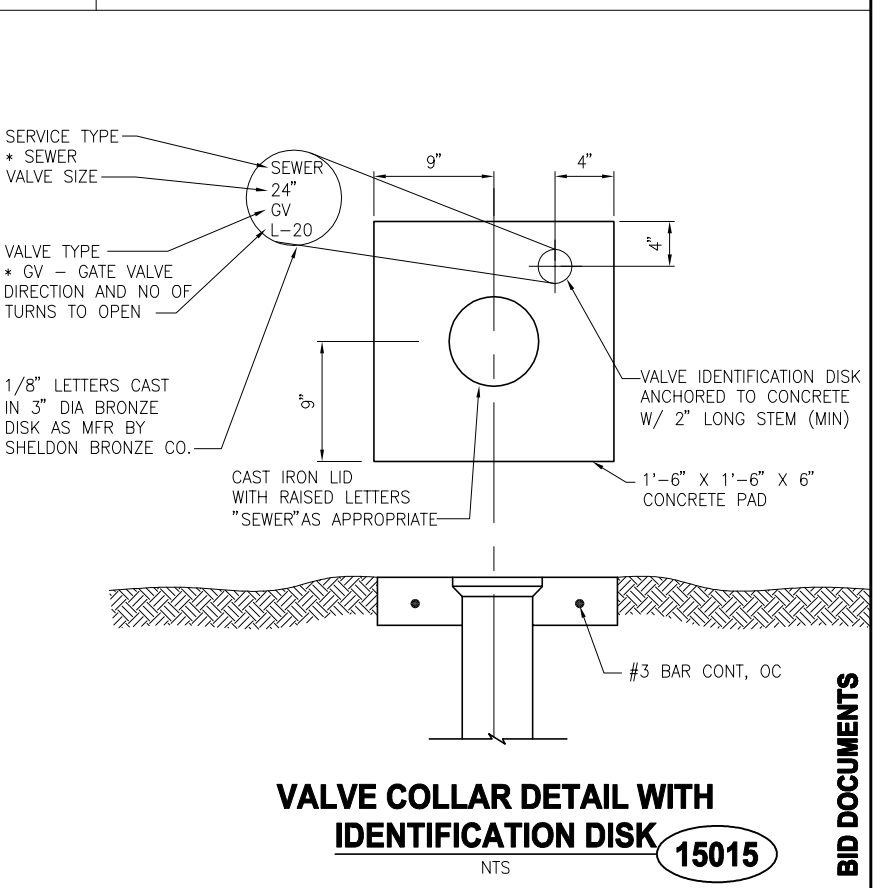
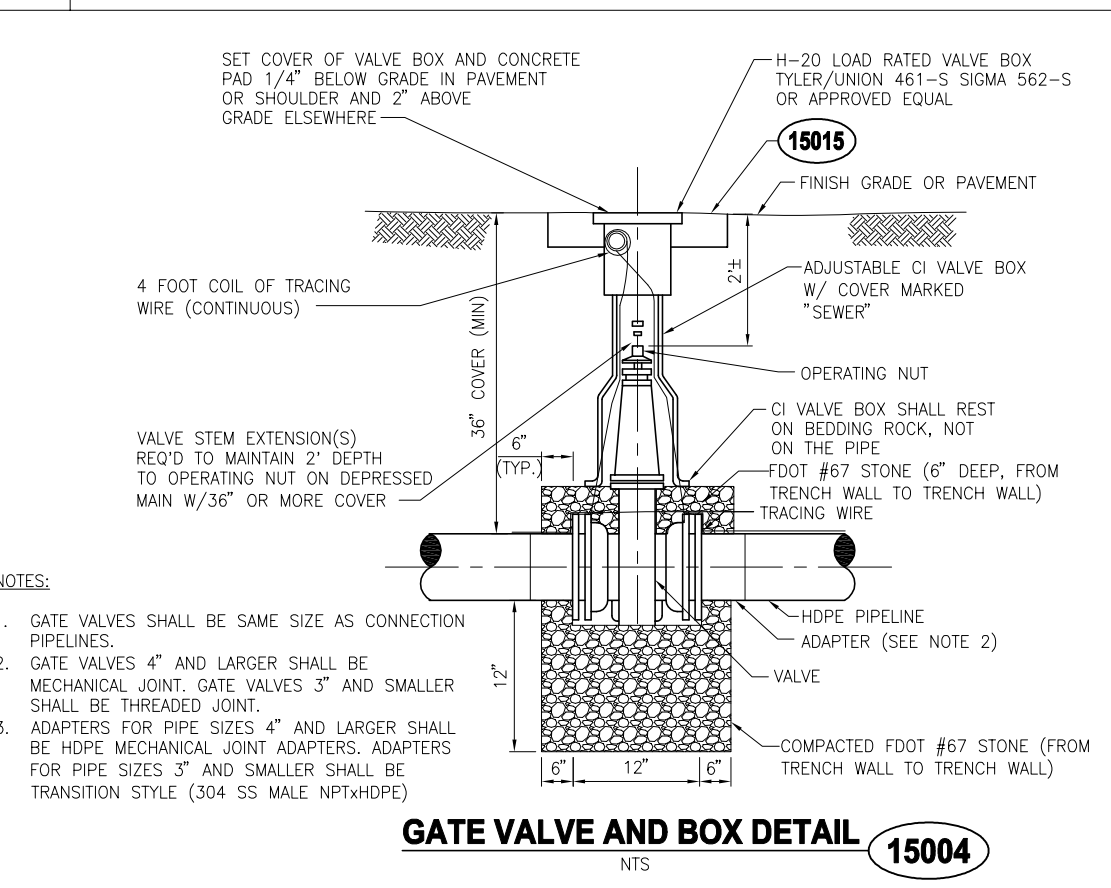
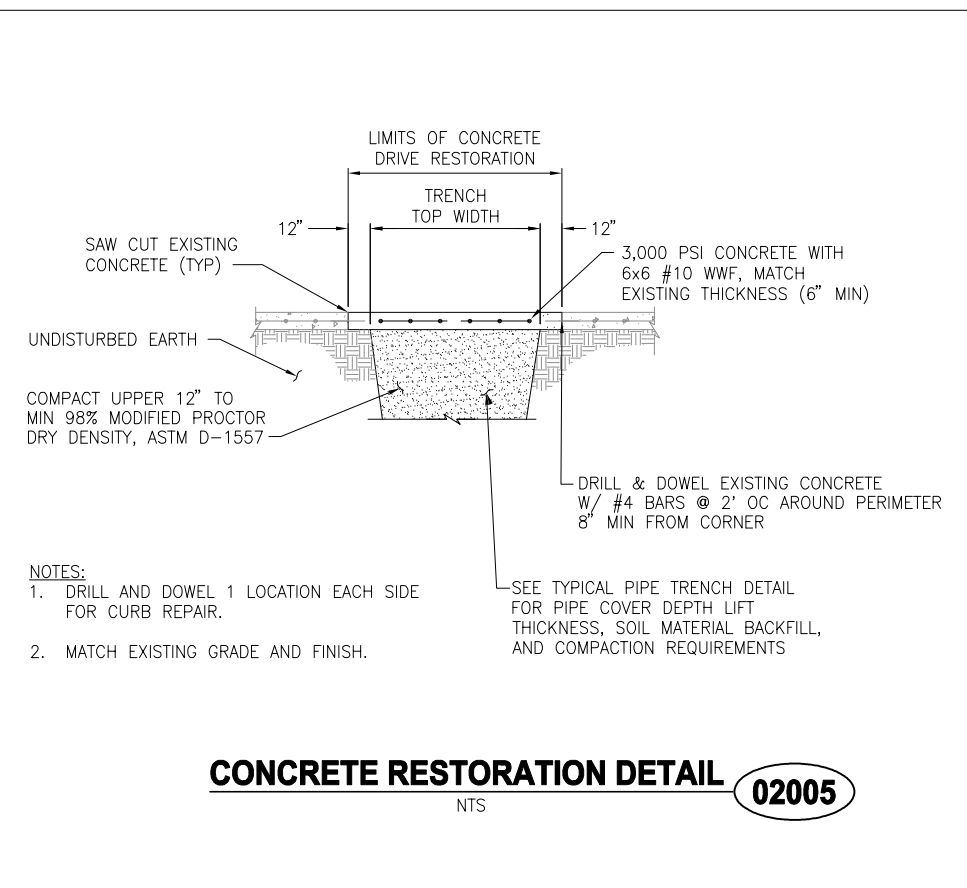
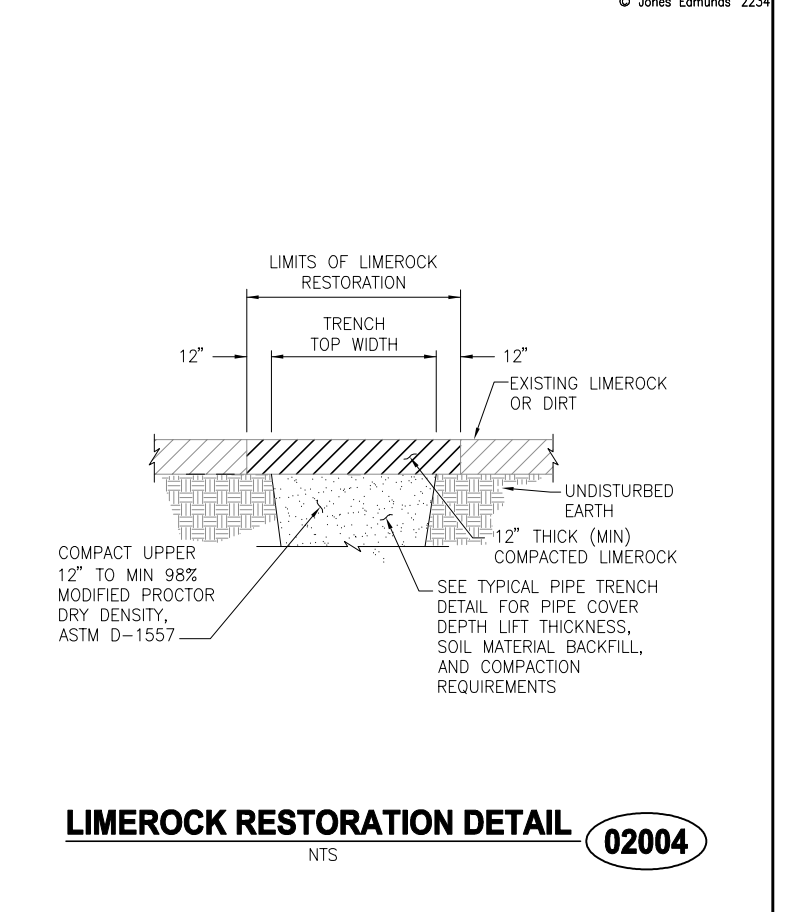
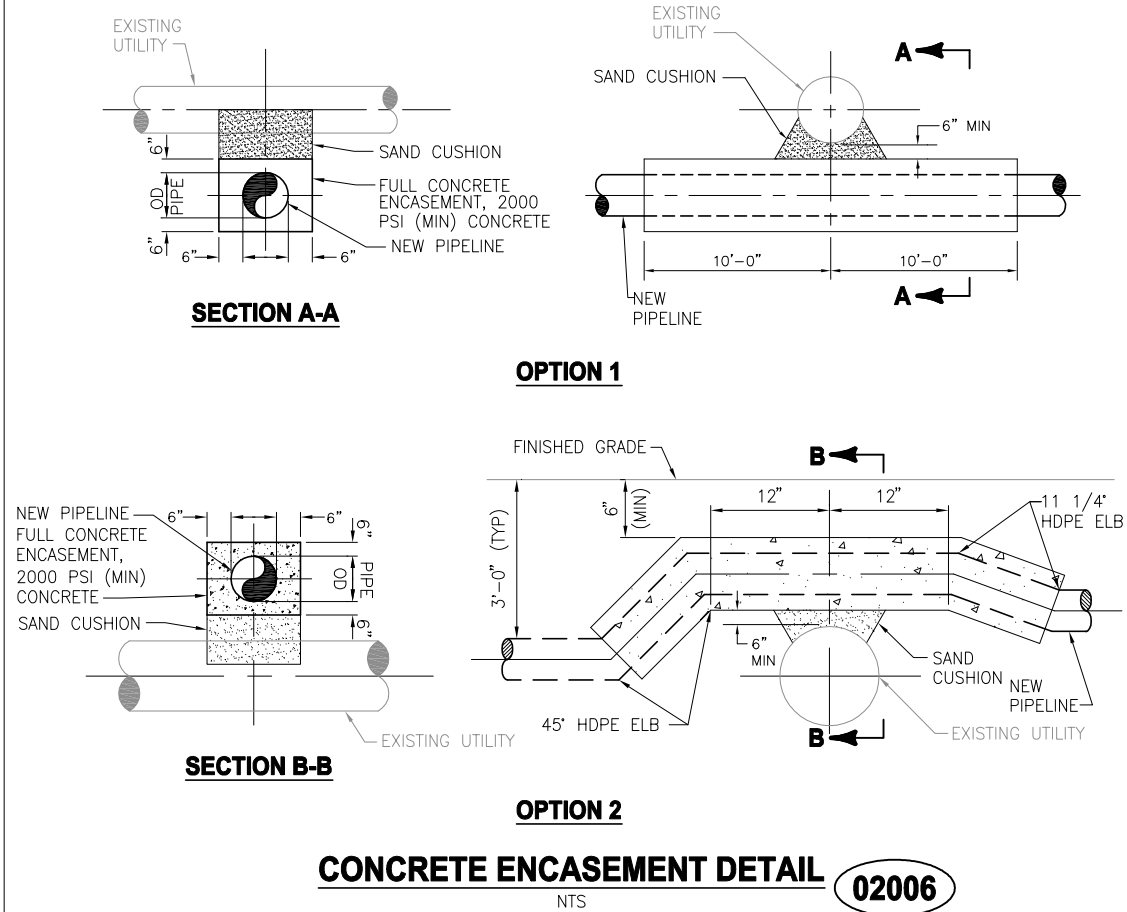
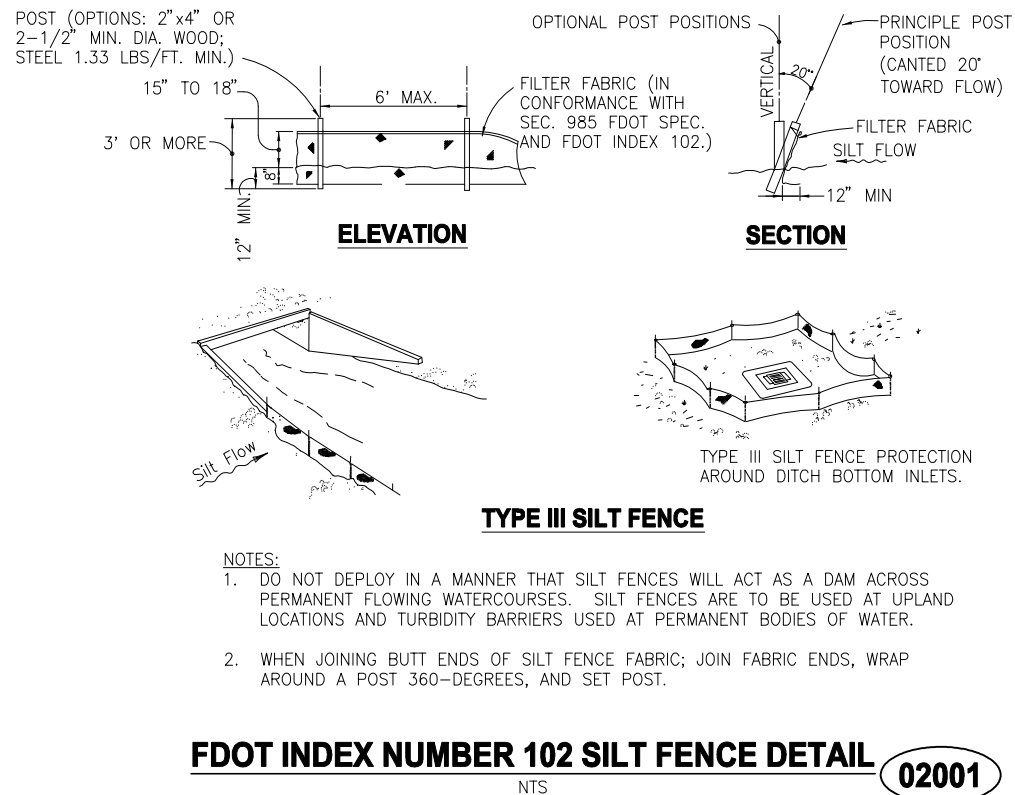
ELECTRICAL DETAILS

CERTIFICATE OF AUTHORIZATION #1841
APPROVED BY
MALCOLM L. KOROS
P.E. #63622

DATE	APRIL 2012	PROJECT NO.	20450-002-03
SCALE	AS NOTED	DWG. NO.	E-1

BID DOCUMENTS

Plotted: 4/09/12 10:13am MTebo



LAST SAVED: 4/2/2012 10:34 AM MTEBOW

BID DOCUMENTS

DESIGNED	RBEST			
DRAWN	MTEBOW			
CHECKED	JHORVATH			
LTR.	DATE	REVISIONS	BY	APPRD.

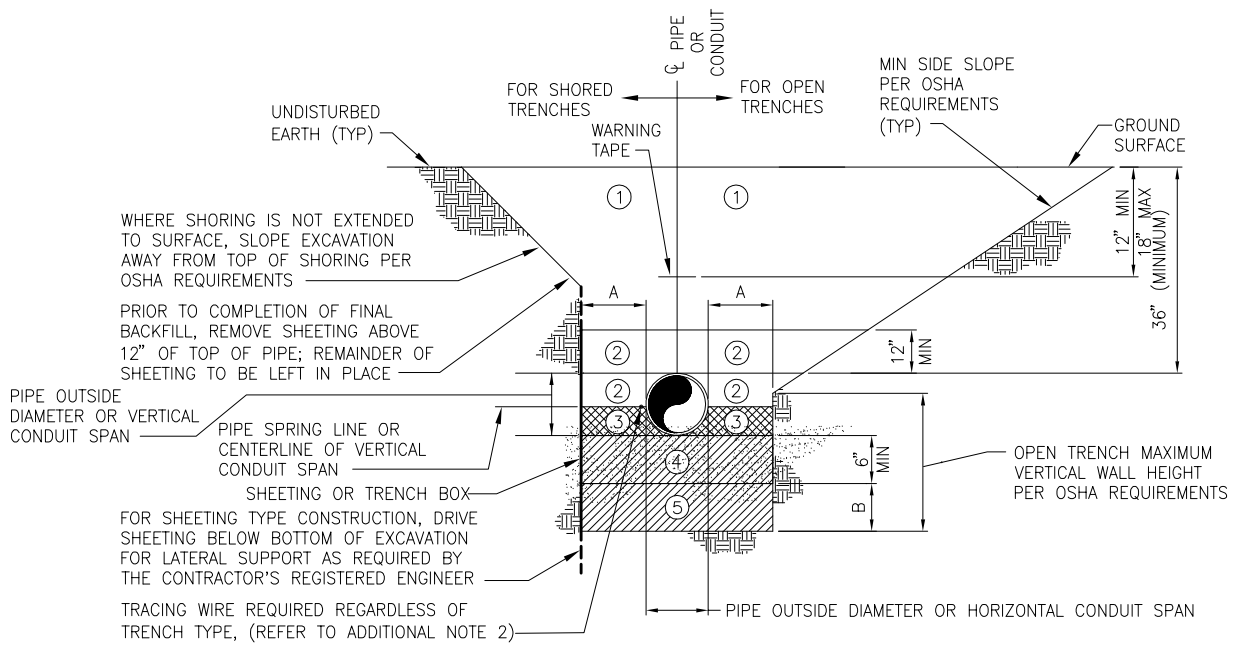


TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE III TAYLOR COUNTY, FL

STANDARD DETAILS

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	D-1

Plotted: 4/09/12 10:13am MTEBOW



NOMINAL PIPE DIAMETER OR HORIZONTAL CONDUIT SPAN (INCHES)	MINIMUM SIDEWALL CLEARANCE	ADDITIONAL EXCAVATION DEPTH (1)
	A (INCHES)	B (INCHES)
LESS THAN 24	12	12
24 AND GREATER	18	18

ZONE NO.	ZONE NAME	MATERIAL	COMPACTION
①	FINAL BACKFILL	AS SPECIFIED	AT LEAST 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY ASTM D-1557
②	INITIAL BACKFILL		
③	HAUNCHING		
④	BEDDING		
⑤	FOUNDATION		

(1) REQUIRED WHERE UNSUITABLE MATERIAL IS ENCOUNTERED.

TRENCH ZONE NOTES:

- ① FINAL BACKFILL SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT. REFER TO ADDITIONAL NOTE 3.
- ② INITIAL BACKFILL SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT. ALL LIFTS SHALL BE COMPACTED BY HAND TAMPING OR AN APPROVED METHOD OF MECHANICAL TAMPING. REFER TO ADDITIONAL NOTE 3.
- ③ HAUNCHING SHALL BE IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT. ALL LIFTS SHALL BE COMPACTED BY HAND TAMPING. HAUNCHING SHALL BE BROUGHT UP EQUALLY ON BOTH SIDES OF THE PIPE.
- ④ BEDDING SHALL BE INSTALLED IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT, AND SHALL BE COMPACTED BY HAND OR MECHANICAL TAMPING. PROPERLY SHAPED BELL HOLES SHALL BE EXCAVATED IN THE BEDDING TO PERMIT ASSEMBLY OF THE PIPE. REFER TO ADDITIONAL NOTE 3.

NATIVE, UNDISTURBED MATERIAL IN COMPLETELY DEWATERED TRENCHES MEETING THE COMPACTION AND MATERIAL REQUIREMENTS FOR COMPACTED BEDDING MATERIAL NEED NOT BE REPLACED OR REWORKED, EXCEPT FOR SHAPING OF THE BELL HOLES, AND WHERE REFILL IS REQUIRED.

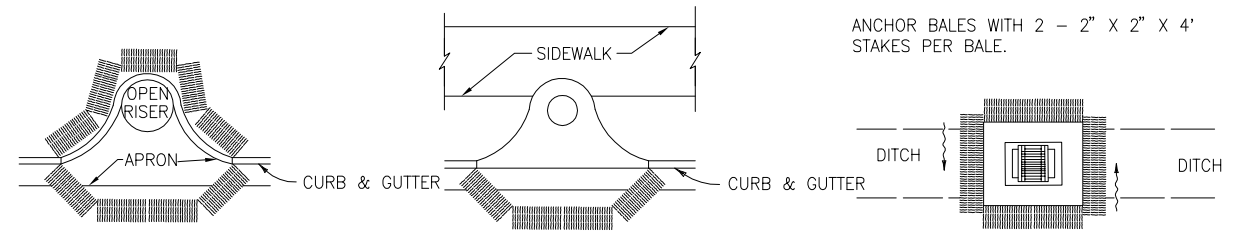
- ⑤ FOUNDATION SHALL BE REQUIRED WHERE UNSUITABLE MATERIAL IS ENCOUNTERED. FOUNDATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR BEDDING. REFER TO ADDITIONAL NOTE 3.

ADDITIONAL NOTES:

- 1. FOR TRENCHES IN VEHICULAR TRAFFIC AREAS OR BENEATH SURFACE IMPROVEMENTS (EG, SLAB, ETC.) SEE CONTRACT SPECIFICATIONS FOR ADDITIONAL COMPACTION REQUIREMENTS. SEE CIVIL DRAWINGS FOR ASPHALT RESTORATION DETAILS.
- 2. TRACING WIRE SHALL BE INSTALLED ON THE SIDE OF THE PIPE AND ATTACHED TO THE PIPE EVERY 10' W/ A NYLON WIRE TIE. IF THE WIRE IS DAMAGED OR NEEDS TO BE EXTENDED A 3M WATERPROOF TYPE UF SPLICE SHALL BE INSTALLED TO REPAIR THE WIRE. THE ENDS OF THE TRACING WIRE SHALL BE BROUGHT UP IN EVERY VALVE BOX ON THE LINE AND AT THE HYDRANT VALVES. THERE SHALL BE A MINIMUM COIL OF 3' LEFT UNDER THE VALVE BOX COVER. THE WIRE SHALL BE TESTED TO VERIFY CONDUCTIVITY.
- 3. ALTERNATIVE LIFT THICKNESSES, NOT EXCEEDING 12 INCHES LOOSE MEASUREMENT, ARE ACCEPTABLE IN TRENCH ZONES 1, 2, 4, AND 5 PROVIDED 1) THE LIFT THICKNESS DOES NOT EXCEED THE MAXIMUM VALUE RECOMMENDED IN WRITING BY THE APPLICABLE PIPE MANUFACTURER AND 2) FIELD TEST RESULTS CONFIRM THAT THE SPECIFIED COMPACTION REQUIREMENTS ARE BEING MET.

TYPICAL UTILITY TRENCH DETAIL 02010M

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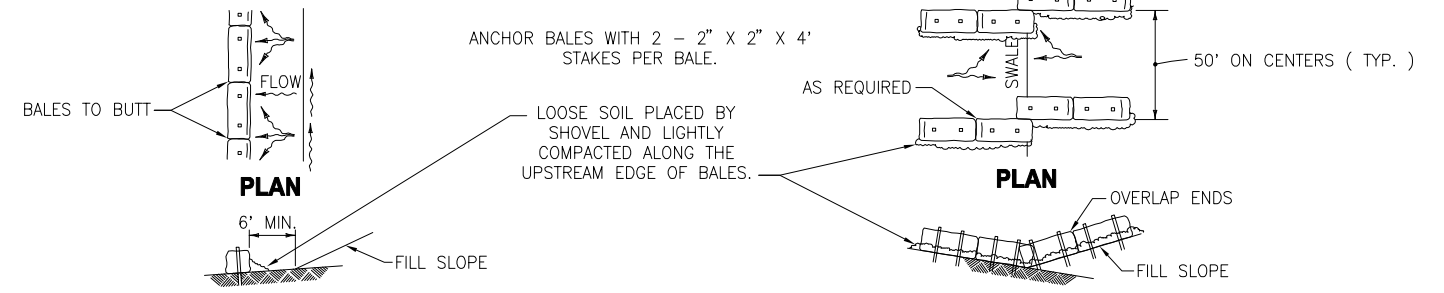


PARTIAL INLET

COMPLETED INLET

DITCH BOTTOM INLET

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



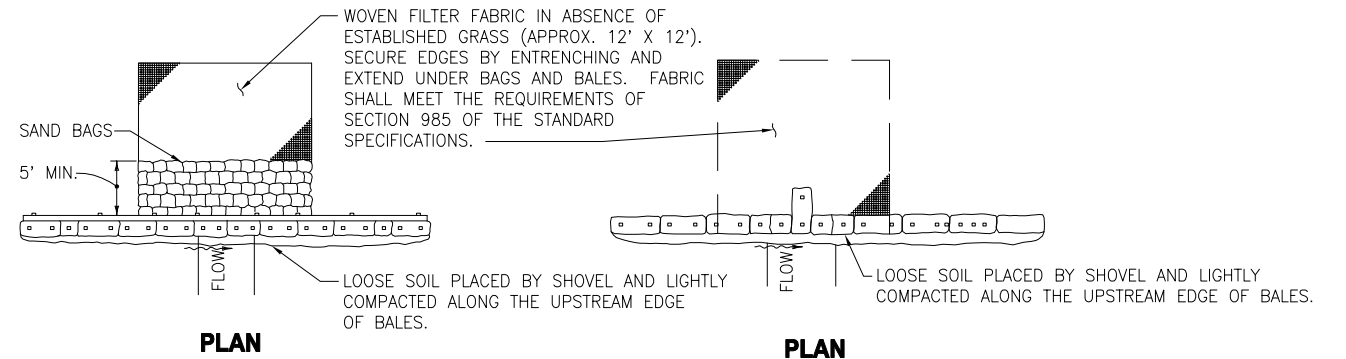
ELEVATION

ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

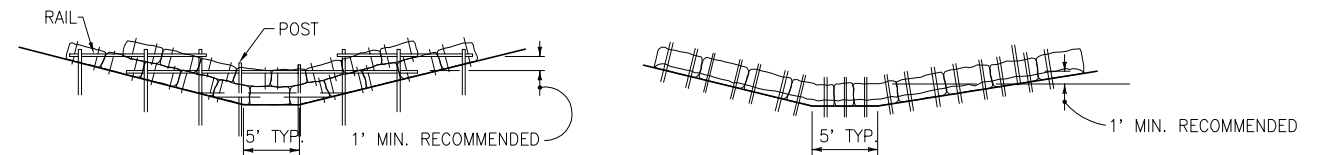
TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES



PLAN

PLAN



ELEVATION

ELEVATION

TYPE II

TYPE I

BARRIER FOR UNPAVED DITCHES

FDOT INDEX NUMBER 102

BAILED HAY DETAIL 02013P

NTS

HAY BAIL DETAIL ONLY FOR REFERENCE. ALL EROSION CONTROL PER FDOT REQUIREMENTS.

STANDARD DETAILS

TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE III TAYLOR COUNTY, FL



DESIGNED RBEST
DRAWN MTEBOW
CHECKED JHORVATH

LTR.	DATE	REVISIONS	BY	APPRD.

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	D-2

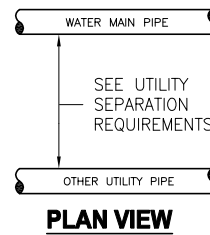
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UTILITY SEPARATION REQUIREMENTS

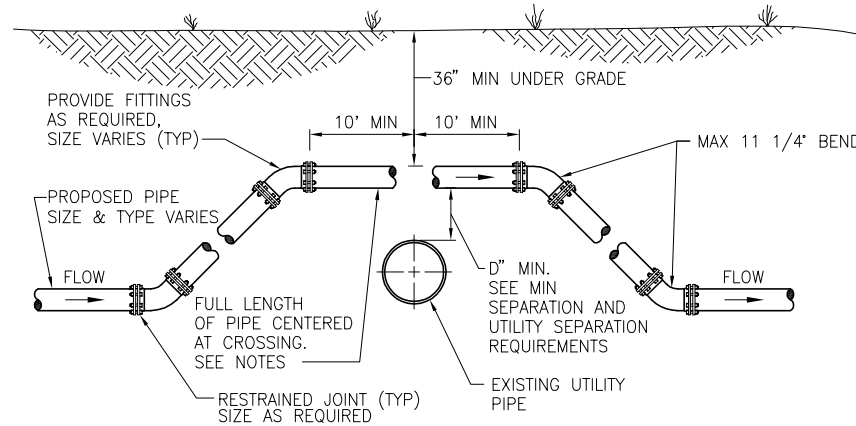
- IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS AND CHAPTER 62-555, FAC STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER. IN ADDITION, THE PHRASE "REGULATED PUBLIC ACCESS RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62.210, FAC
- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING REGULATED PUBLIC ACCESS RECLAIMED WATER.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, NON-REGULATED RECLAIMED WATER, OR WASTEWATER FORCE MAIN. (SPECIAL CASE).
- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER, OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING REGULATED PUBLIC ACCESS RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, NON-REGULATED RECLAIMED WATER, OR WASTEWATER FORCE MAINS.
- NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING REGULATED PUBLIC ACCESS RECLAIMED WATER; AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
- WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION.
- TYPICAL ALTERNATIVE CONSTRUCTION INCLUDES:
 - USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (IE HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN.
 - USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (IE HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE OTHER PIPELINE BEING CROSSED.
 - PROVIDING BOTH ITEMS 9.A. AND ITEM 9.B. TO THE EXISTING AND PROPOSED UTILITIES.



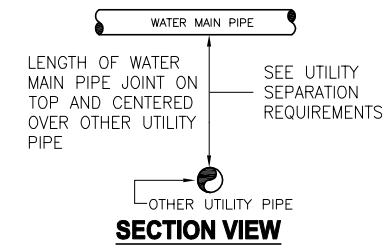
PLAN VIEW

OTHER PIPING TYPE	MINIMUM HORIZONTAL SEPARATION (FEET)
1. GRAVITY SANITARY SEWER	6-10
2. GRAVITY SANITARY SEWER (SPECIAL CASE, NOTE 3)	3
3. SEWAGE FORCE MAIN	6-10
4. GRAVITY STORM SEWER	3
5. RECLAIMED WATER (PUBLIC ACCESS)	3
6. ELECTRIC	3

MINIMUM HORIZONTAL SEPARATION REQUIREMENTS



CROSSING OVER UTILITIES



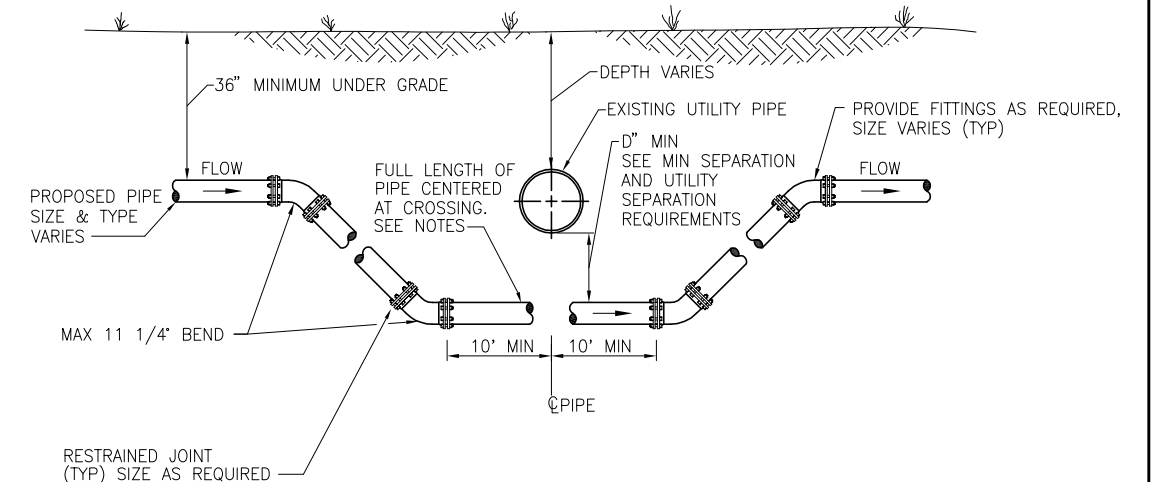
SECTION VIEW

OTHER PIPING TYPE	MINIMUM VERTICAL SEPARATION (D) (INCHES)
1. GRAVITY SANITARY SEWER	6-12
2. SEWAGE FORCE MAIN	12
3. GRAVITY STORM SEWER	6-12
4. RECLAIMED WATER	12
5. ELECTRIC	6

NOTE:

IF THE WATER MAIN IS BELOW THE SEWER PIPE, THEN A MINIMUM OF 12" VERTICAL SEPARATION IS REQUIRED.

MINIMUM VERTICAL SEPARATION REQUIREMENTS



CROSSING UNDER UTILITIES

NOTE:

- THE CONTRACTOR MAY CHOOSE TO DEFLECT THE PROPOSED PIPE UNDER OR OVER THE EXISTING UTILITY PIPE IN LIEU OF USING FITTINGS AS LONG AS THE MINIMUM DISTANCE "D" IS MAINTAINED AND THE AMOUNT OF PIPE DEFLECTION MEETS THE REQUIREMENTS OF THE SPECIFICATIONS.

TYPICAL UTILITY CONFLICT DETAIL 15009

NTS

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DESIGNED	RBEST			
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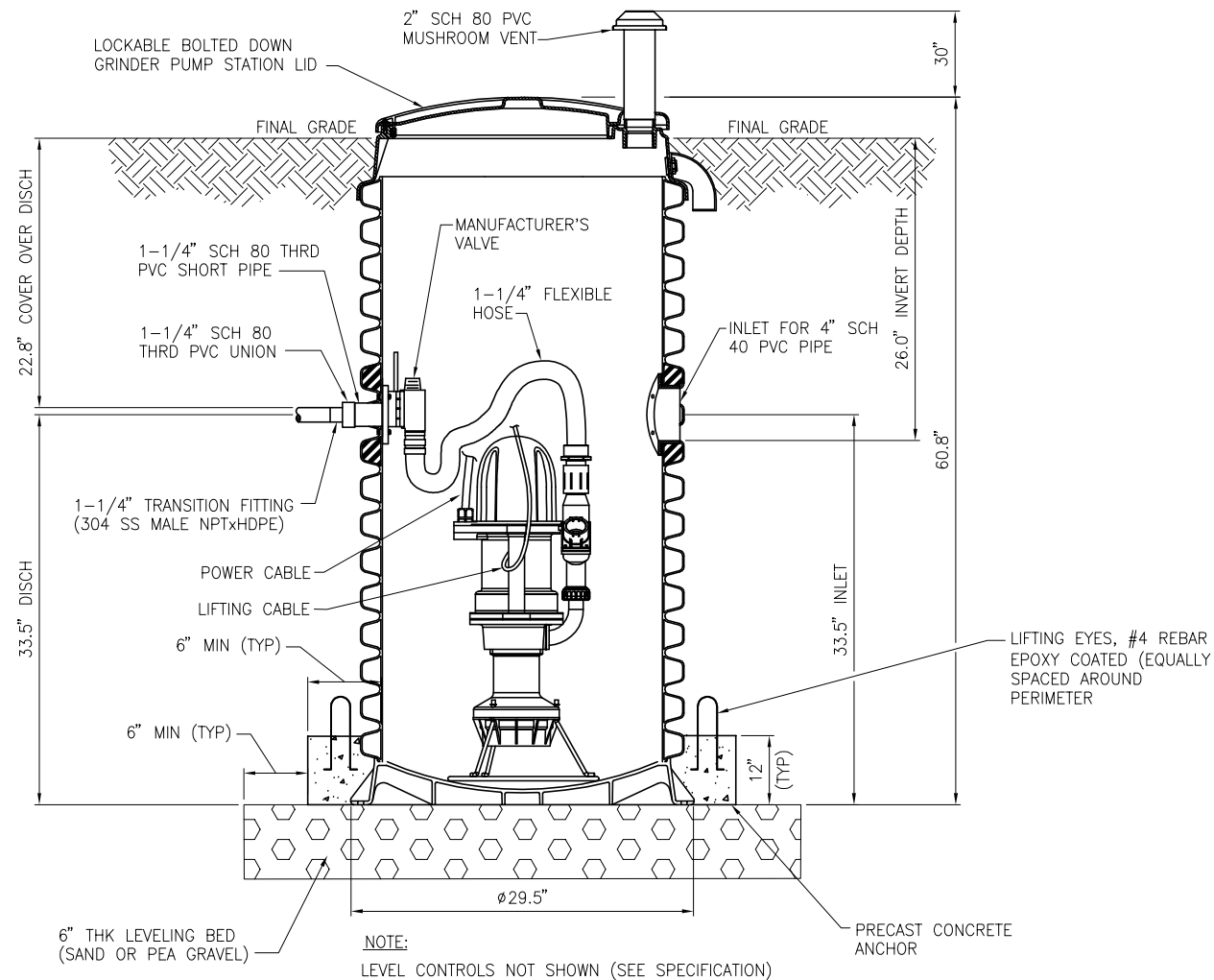


TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE III TAYLOR COUNTY, FL

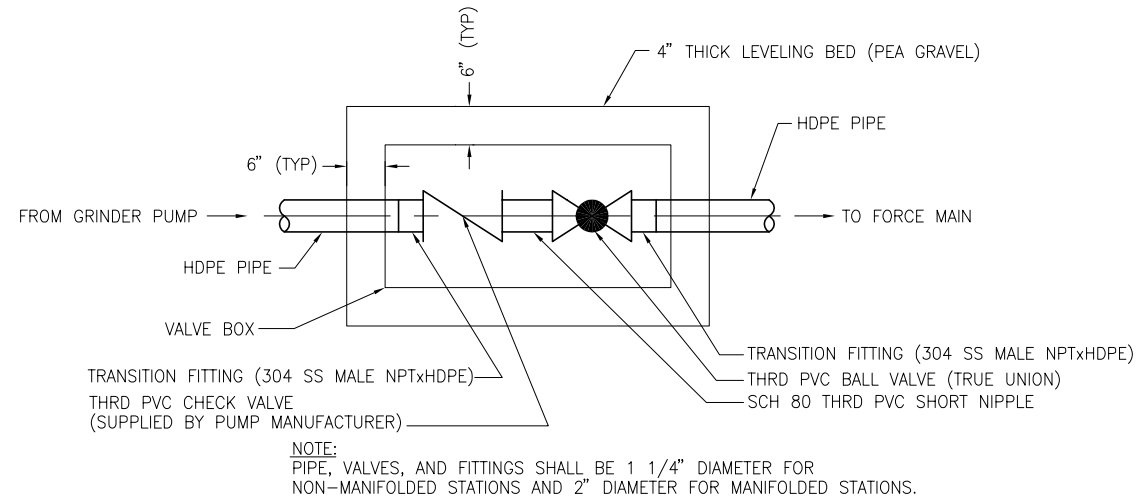
STANDARD DETAILS

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	D-3

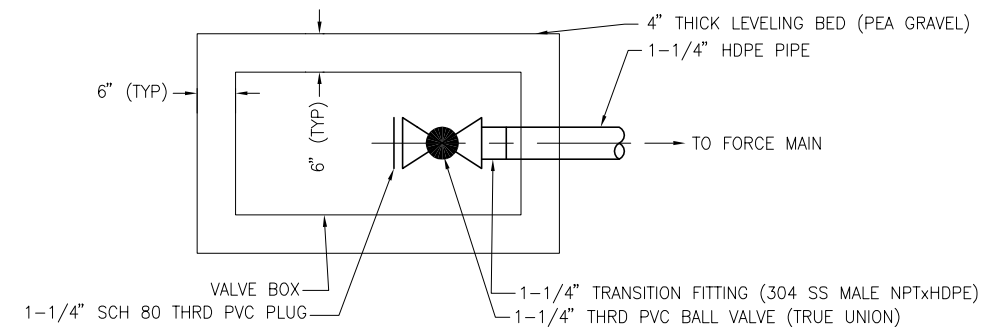
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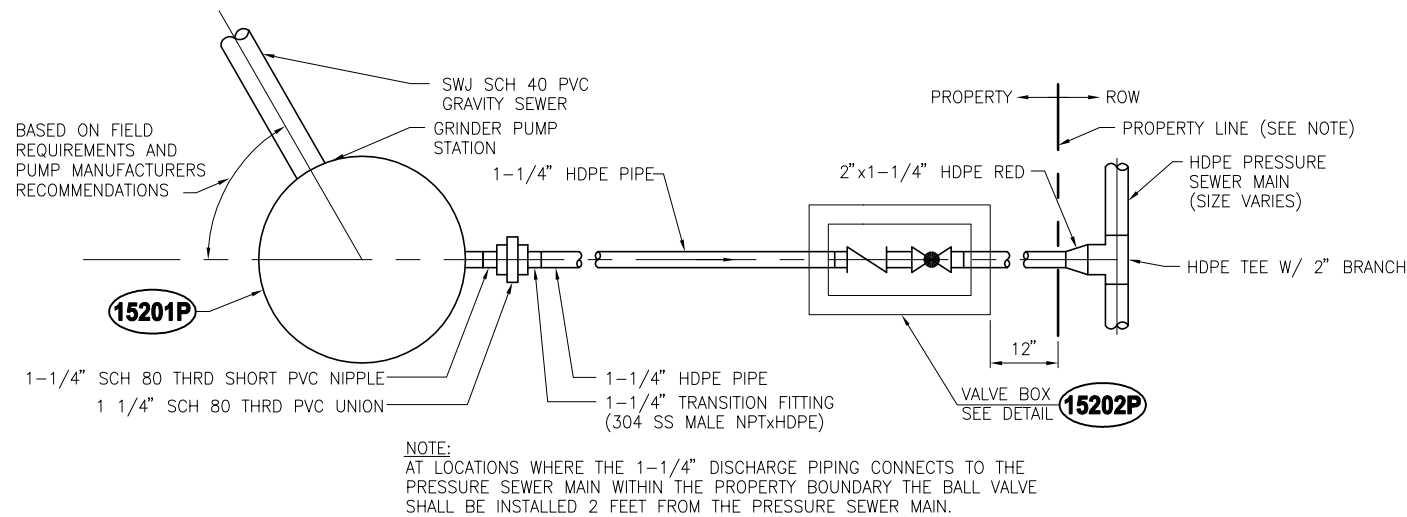
TYPICAL SIMPLEX GRINDER PUMP STATION 15201P
NTS



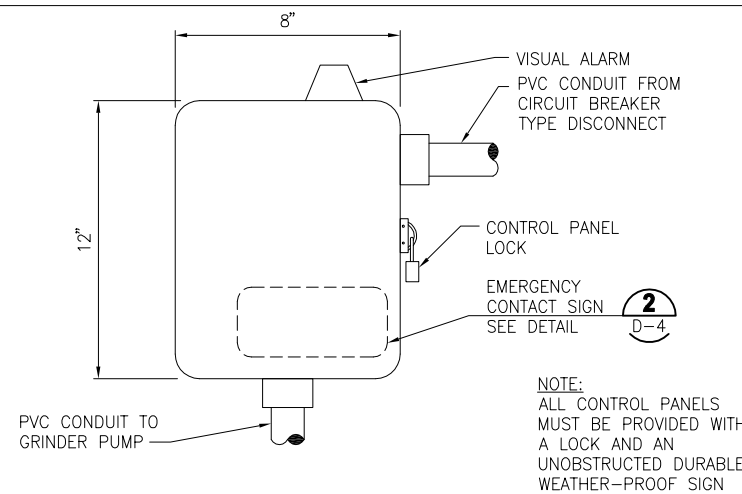
VALVE BOX DETAIL 15202P
NTS



SERVICE STUBOUT FOR FUTURE CONNECTION DETAIL 15203P
NTS



TYPICAL GRINDER PUMP STATION AND DISCHARGE PIPING DETAIL 15200P
NTS



TYPICAL LOCKABLE CONTROL PANEL 1
NTS



EMERGENCY CONTACT SIGN 2
NTS

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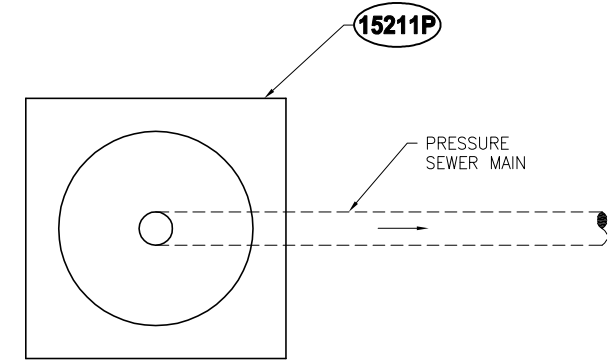
TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE III TAYLOR COUNTY, FL

STANDARD DETAILS

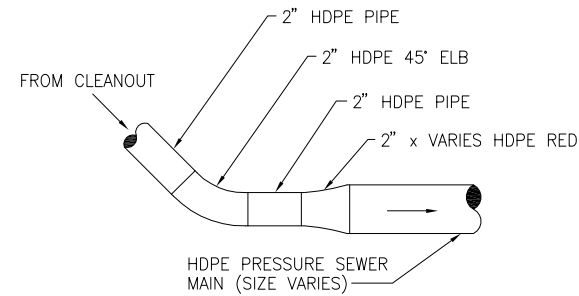
CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	APRIL 2012	20450-002-03
JOHN H HORVATH	SCALE	DWG. NO.
P.E. #47093	AS NOTED	D-4

BID DOCUMENTS

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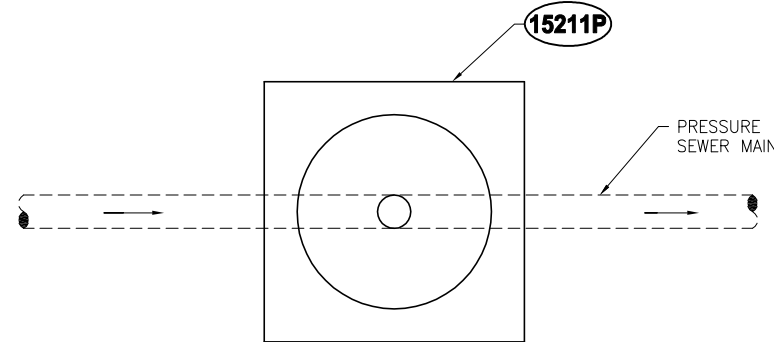


PLAN

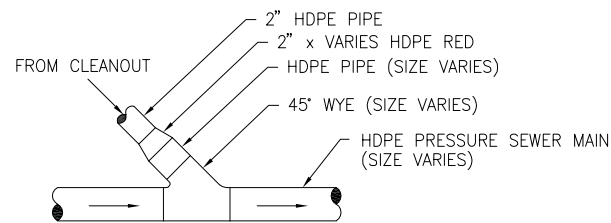


PROFILE

TERMINAL PRESSURE SEWER CLEANOUT CONNECTION DETAIL 15208P
NTS

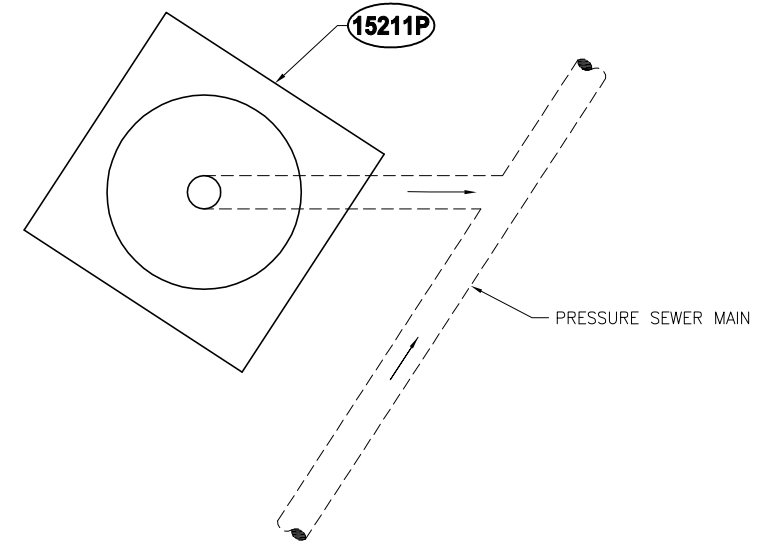


PLAN

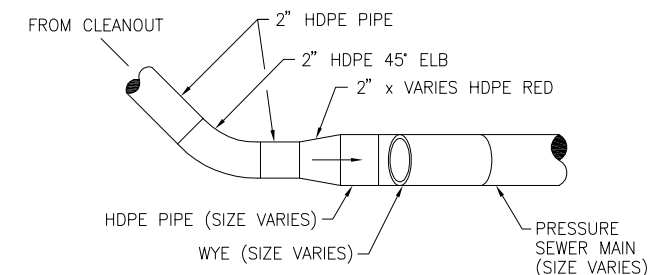


PROFILE

IN-LINE PRESSURE SEWER CLEANOUT CONNECTION DETAIL 15209P
NTS

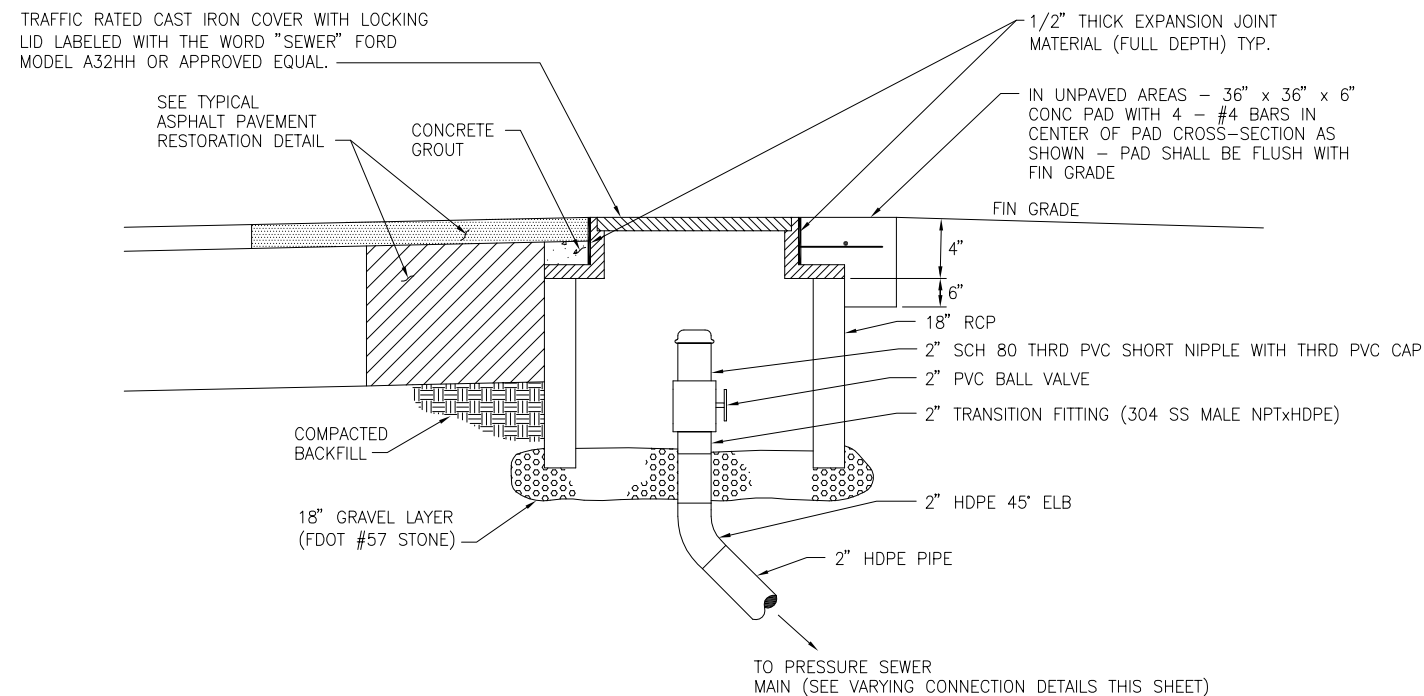


PLAN



PROFILE

OFF-LINE PRESSURE SEWER CLEANOUT CONNECTION DETAIL 15210P
NTS



PRESSURE SEWER CLEANOUT CONNECTION DETAIL 15211P
NTS

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DESIGNED RBEST
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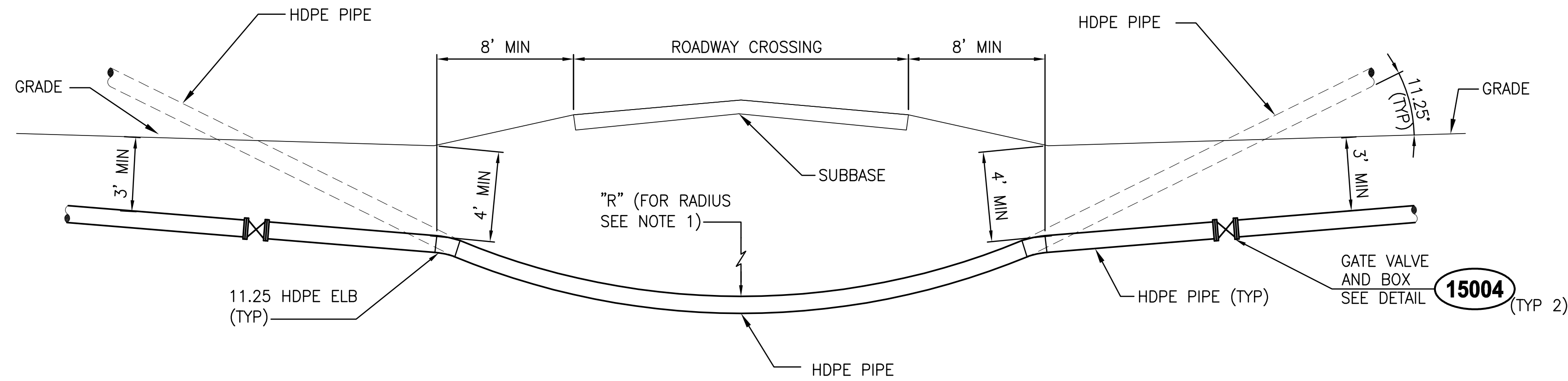


TAYLOR COASTAL CENTRALIZED WASTEWATER SYSTEM - PHASE III TAYLOR COUNTY, FL

STANDARD DETAILS

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY <u>JOHN H HORVATH</u> P.E. #47093	DATE APRIL 2012	PROJECT NO. 20450-002-03
SCALE AS NOTED	DWG. NO. D-5	

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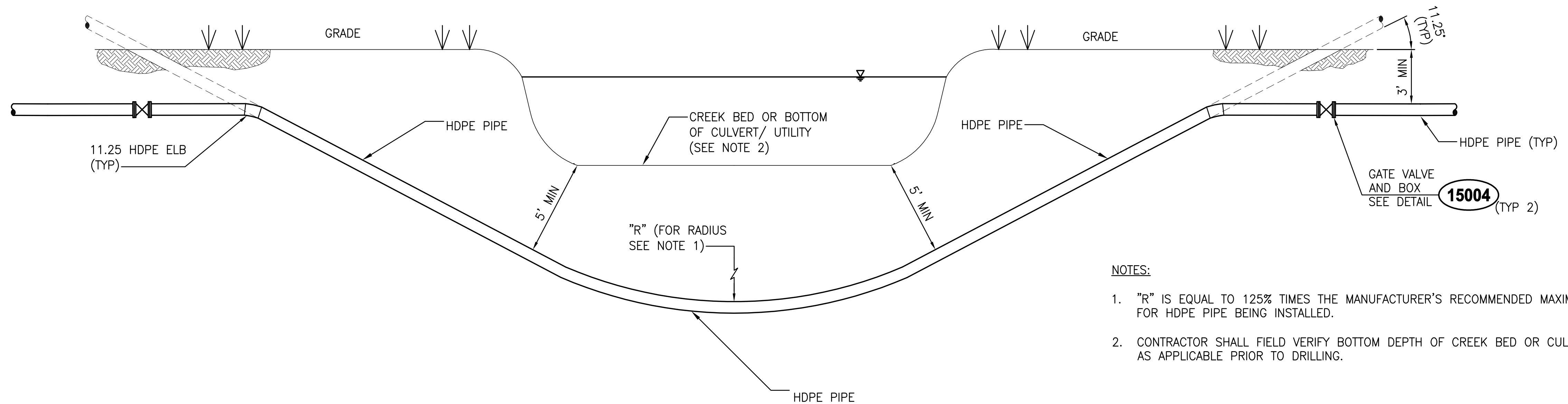


NOTES:

- "R" IS EQUAL TO 125% TIMES THE MANUFACTURER'S RECOMMENDED MAXIMUM RADIUS FOR HDPE PIPE BEING INSTALLED.
- PIPE COVER SHALL BE AS SHOWN OR 4' UNDER THE BOTTOM OF THE ROAD SUBBASE WHICHEVER IS LOWER.

DIRECTIONAL DRILL - ROADWAY CROSSING DETAIL 15800

NTS



NOTES:

- "R" IS EQUAL TO 125% TIMES THE MANUFACTURER'S RECOMMENDED MAXIMUM RADIUS FOR HDPE PIPE BEING INSTALLED.
- CONTRACTOR SHALL FIELD VERIFY BOTTOM DEPTH OF CREEK BED OR CULVERT/ UTILITY AS APPLICABLE PRIOR TO DRILLING.

DIRECTIONAL DRILL - CREEK/ UTILITY CROSSING DETAIL 15801

NTS

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**TAYLOR COASTAL CENTRALIZED
WASTEWATER SYSTEM - PHASE 2, PART 2
TAYLOR COUNTY, FL**

STANDARD DETAILS

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY	DATE APRIL 2012	PROJECT NO. 20450-002-03
JOHN H HORVATH P.E. #47093	SCALE AS NOTED	DWG. NO. D-6

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