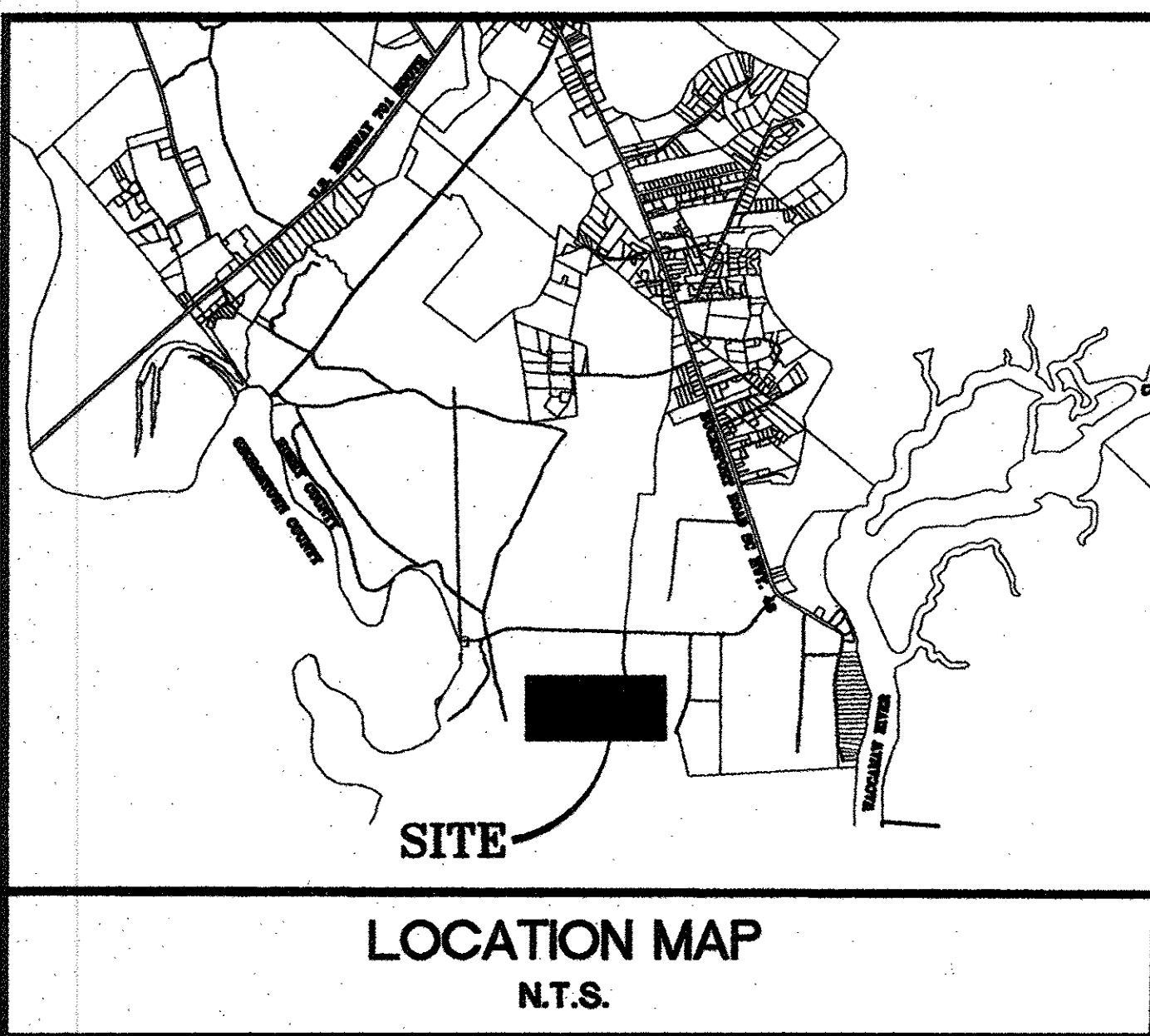
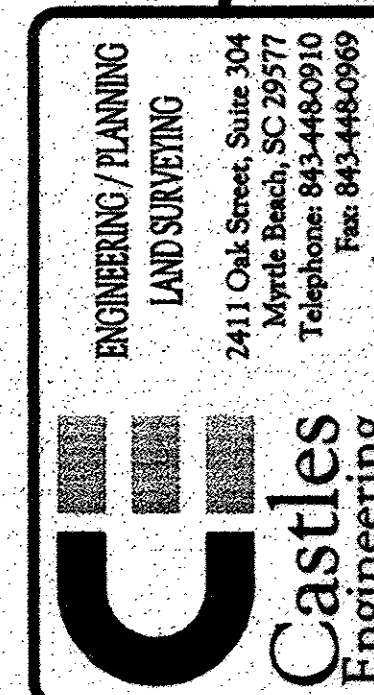




STORMWATER DRAINAGE SYSTEMS RECORD DRAWING FOR: GWSA BUCKSPORT COMPOSTING FACILITY

PERMIT NUMBERS
SCDHEC-OCRM PERMIT No. # SCR10M921
HORRY COUNTY STORMWATER APPROVAL PERMIT #1863 DATED JULY 28, 2010
HORRY COUNTY STAMPED PLAN APPROVALS DATED JULY 21, 2010
USACOE PERMIT No. # SAC81-2005-1174-3 DATED JULY 19, 2005



STORMWATER DRAINAGE SYSTEMS RECORD DRAWING
COVER SHEET
for
BUCKSPORT COMPOSTING FACILITY
GRAND STRAND WATER & SEWER AUTHORITY
HORRY COUNTY, SOUTH CAROLINA

PROJECT SUMMARY:
COMPOSTING FACILITY LOCATED IN BUCKSPORT, HORRY COUNTY, SC
TAX PARCEL: PORTION OF TMS#183-00-04-055
CURRENT ZONING: LFA
TOTAL PROJECT AREA - 14.59 ACRES
PROPOSED LAND DISTURBANCE AREA - 9.19 ACRES
USE: COMPOST FACILITY
DRAINAGE: PRIVATE

FLOOD ZONE INFORMATION
THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" AS SCALED
FROM F.I.R.M. No. 45061C0006 H DATED AUGUST 23, 1999.

HORIZONTAL DATUM: NAD 83
VERTICAL DATUM: NAVD 88
BENCHMARK: TBM 1/2" IRON PIPE
ELVATION=14.61 SHOWN
ON SHEET 2 OF 2

DATE OF INSTALLATION:
SPRING 2011

- RECORD DRAWING NOTES:
- PARENT TMS#s: 183-00-04-055
 - OWNER OF RECORD: GWSA
P.O. BOX 2368
CONWAY, SC 29528
843-443-8200
 - ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES.
 - VERTICAL SEPARATION OF THE UTILITY LINES & DRAINAGE PIPES
SHOWN ON PLAN DETERMINED BY CALCULATION ARE APPROXIMATE.
 - RECORD DRAWINGS PREPARED FROM FIELD SURVEY AND INFORMATION
PROVIDED BY CONTRACTOR.
 - ALL COMMON AREAS, PONDS, DRAINAGE EASEMENTS &
DRAINAGE STRUCTURES TO REMAIN PRIVATE AND BE
MAINTAINED BY THE DEVELOPER.
 - WATER SYSTEMS RECORD DRAWING SOLELY BASED UPON INFORMATION
PROVIDED BY GWSA "BUCKSPORT COMPOST FACILITY DESIGN"
DATED SEPTEMBER 2010

LEGEND	
	SEWER MANHOLE
	SEWER SERVICE
	AIR RELEASE VALVE
	FIRE HYDRANT
	WATER VALVE
	WATER SERVICE
	TEMPORARY BENCH MARK/ CORE LOCATION
	ELECTRIC OUTLET
	CONCRETE AREA
	BUILDING AREA

GEOTECHNICAL CONSULTANT
S&ME, INC.
1330 HWY 501 BUSINESS
CONWAY, SC 29526
(843) 347-7800

OWNER / DEVELOPER
GWSA
P.O. BOX 2368
CONWAY, SC 29528
(843) 443-8200
CONTACT: CHRISTY EVERETT

LAND SURVEYOR
ASSOCIATED LAND SURVEYORS
2411 OAK STREET, SUITE 304
MYRTLE BEACH, SC 29577
(843) 626-7393

CONTRACTOR
M.B. KAHN CONSTRUCTION CO., INC.
736 HIGHWAY 501 EAST
CONWAY, S.C. 29526
(843) 234-6490
CONTACT: LINDSAY McKNIGHT

SHEET INDEX

DESCRIPTION

SHEET

RECORD DRAWING COVER SHEET
STORMWATER DRAINAGE SYSTEMS RECORD DRAWING

1 OF 2
2 OF 2

REFERENCES:

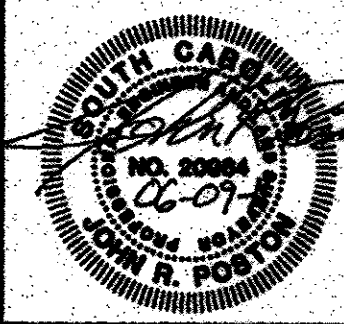
- WETLAND SURVEY OF SITE DATED FEB. 23, 1999 FOR
GRAND STRAND WATER & SEWER BY ASSOCIATED LAND
SURVEYORS.
- TOPOGRAPHIC SURVEY OF SITE DATED NOV. 16, 2009 BY
ASSOCIATED LAND SURVEYORS.

I HEREBY CERTIFY THAT THE STORMWATER DRAINAGE SYSTEMS
SHOWN HAVE BEEN INSTALLED IN ACCORDANCE WITH THE
APPROVED CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND
ARE TO THE BEST OF MY KNOWLEDGE, AS SHOWN ON THESE RECORD
DRAWINGS.

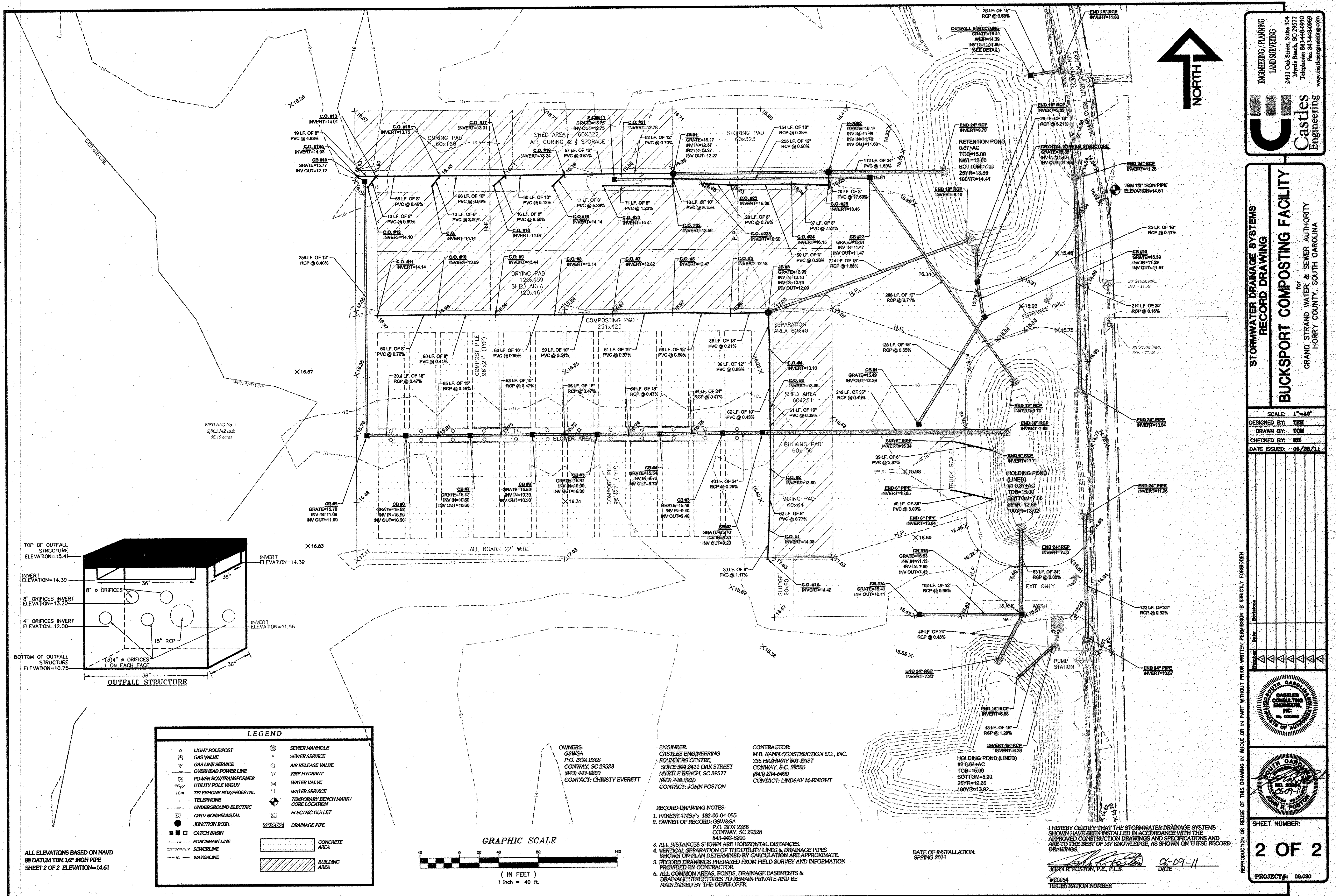
JOHN R. POSTON, P.E., P.L.S.
#20964
REGISTRATION NUMBER

06-07-11
DATE

REPRODUCTION OR REUSE OF THIS DRAWING IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN PERMISSION IS STRICTLY FORBIDDEN



SHEET NUMBER:
1 OF 2
PROJECT#: 09.030



ENGINEERING / PLANNING
LAND SURVEYING

2411 Oak Street, Suite 304
Myrtle Beach, SC 29577
Telephone: 843-448-0910
Fax: 843-448-0909
www.castlesengineering.com

Castles
Engineering

STORMWATER DRAINAGE SYSTEMS
RECORD DRAWING

BUCKSPORT COMPOSTING FACILITY

for
GRAND STRAND WATER & SEWER AUTHORITY
HORRY COUNTY, SOUTH CAROLINA

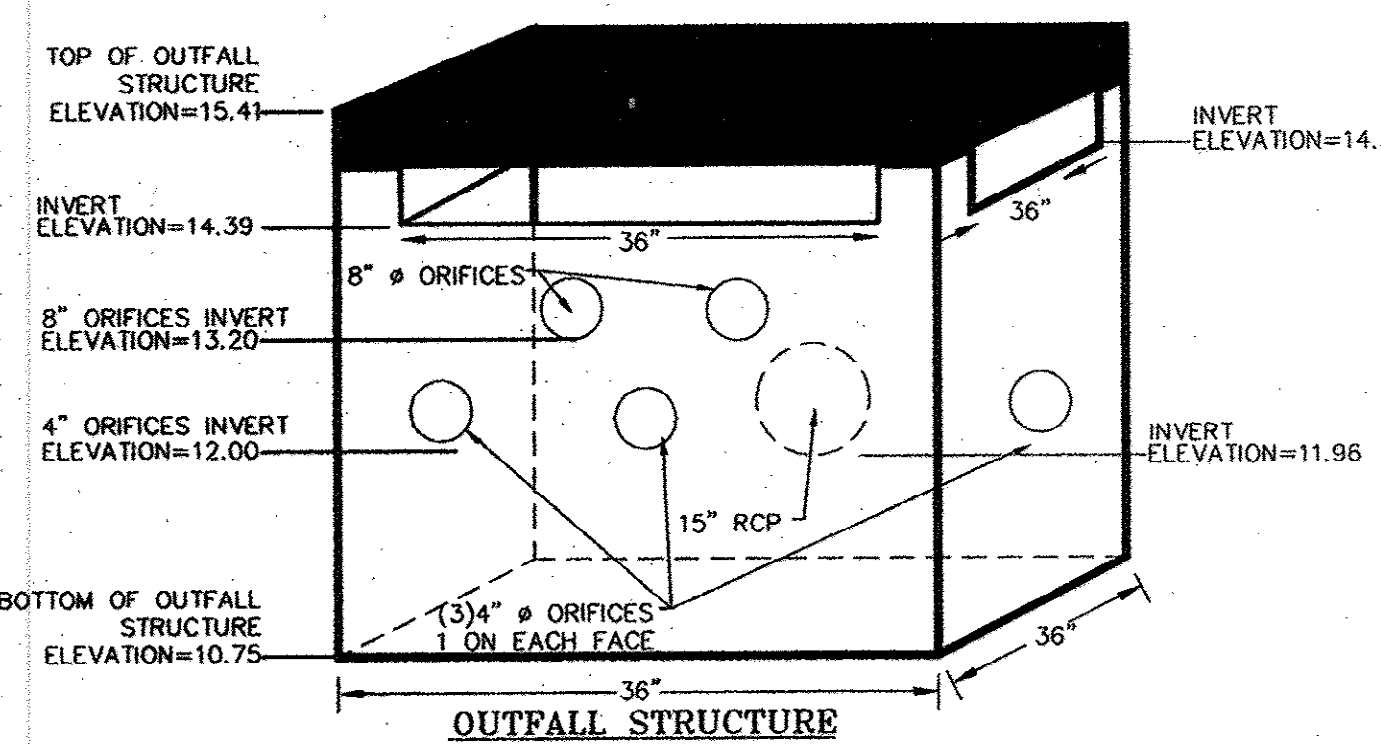
SCALE: 1"=40'
DESIGNED BY: TCM
DRAWN BY: TCM
CHECKED BY: RB
DATE ISSUED: 05/25/11

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Revision	Date	Description
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6		
7		
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10		

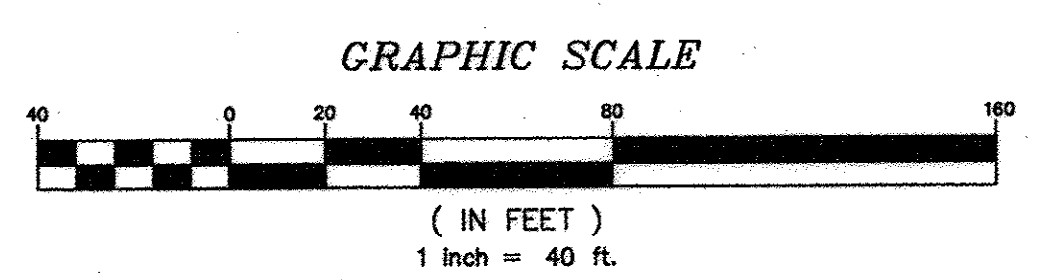
SHEET NUMBER:
2 OF 2

PROJECT#: 09.030



LEGEND	
	LIGHT POLEPOST
	GAS VALVE
	GAS LINE SERVICE
	OVERHEAD POWER LINE
	POWER BOX/TRANSFORMER
	UTILITY POLE/WIGUY
	TELEPHONE BOX/PEDESTAL
	TELEPHONE
	UNDERGROUND ELECTRIC
	CATV BOX/PEDESTAL
	JUNCTION BOX
	CATCH BASIN
	FORCE MAIN LINE
	SEWER LINE
	WATER LINE
	SEWER MANHOLE
	SEWER SERVICE
	AIR RELEASE VALVE
	FIRE HYDRANT
	WATER VALVE
	WATER SERVICE
	TEMPORARY BENCH MARK/ COVER LOCKING
	ELECTRIC OUTLET
	DRAINAGE PIPE
	CONCRETE AREA
	BUILDING AREA

ALL ELEVATIONS BASED ON NAVD
88 DATUM TBM 1/2\"/>



OWNERS:
GSW&SA
P.O. BOX 2368
CONWAY, SC 29528
(843) 443-8200
CONTACT: CHRISTY EVERETT

ENGINEER:
CASTLES ENGINEERING
FOUNDERS CENTRE
SUITE 304 2411 OAK STREET
MYRTLE BEACH, SC 29577
(843) 448-0910
CONTACT: JOHN POSTON

CONTRACTOR:
M.B. KAHN CONSTRUCTION CO., INC.
736 HIGHWAY 501 EAST
CONWAY, S.C. 29526
(843) 234-6490
CONTACT: LINDSAY McKNIGHT

- RECORD DRAWING NOTES:
1. PARENT TMS#s: 183-00-04-055
 2. OWNER OF RECORD: GSW&SA
P.O. BOX 2368
CONWAY, SC 29528
843-443-8200
 3. ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES.
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 6. ALL COMMON AREAS, PONDS, DRAINAGE EASEMENTS & DRAINAGE STRUCTURES TO REMAIN PRIVATE AND BE MAINTAINED BY THE DEVELOPER.

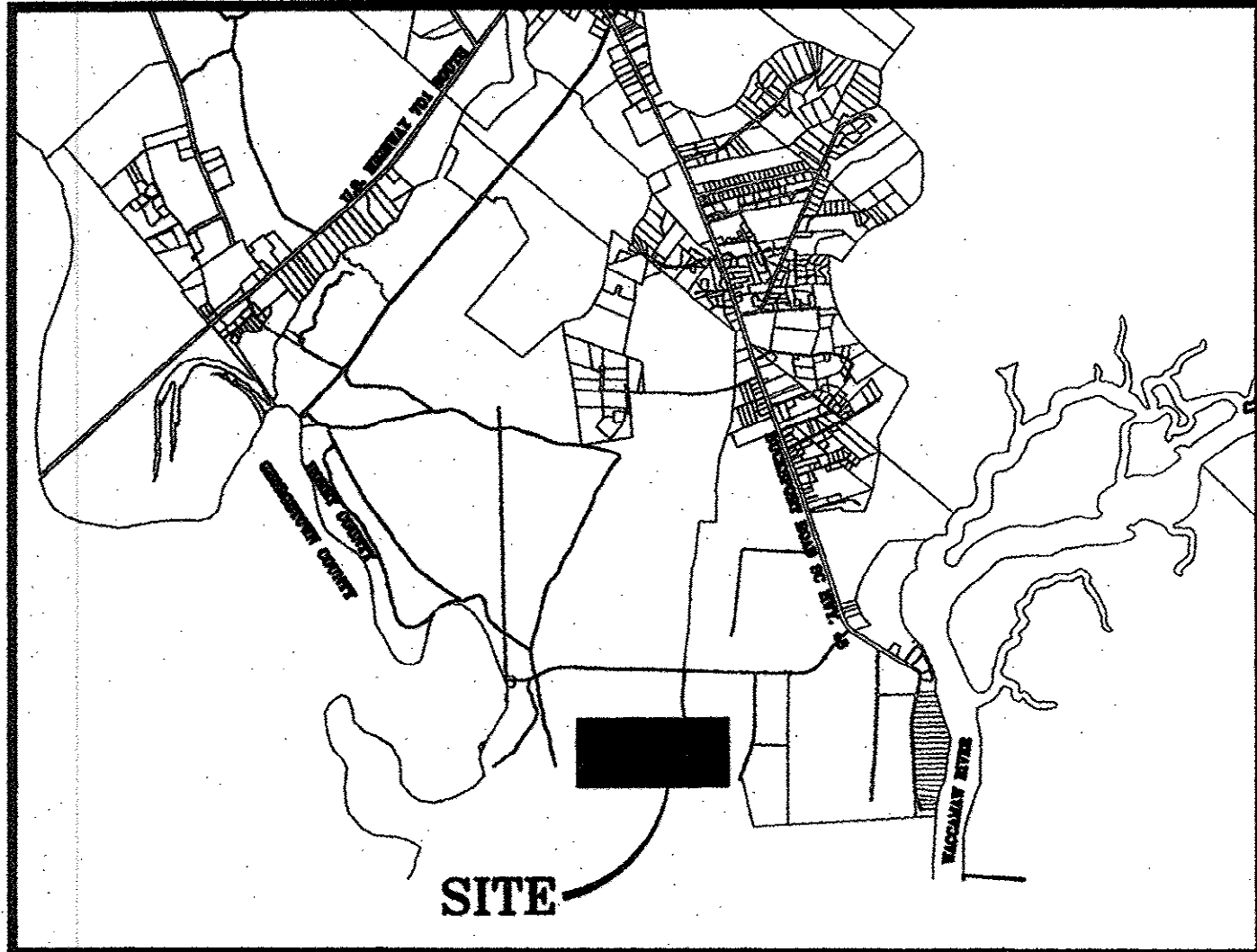
DATE OF INSTALLATION:
SPRING 2011

I HEREBY CERTIFY THAT THE STORMWATER DRAINAGE SYSTEMS SHOWN HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND ARE TO THE BEST OF MY KNOWLEDGE, AS SHOWN ON THESE RECORD DRAWINGS.

JOHN R. POSTON, P.E., P.L.S.
#20964
REGISTRATION NUMBER

05-09-11
DATE

26-048-002/5



LOCATION MAP
N.T.S.

FLOOD ZONE INFORMATION

THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" AS SCALED FROM F.I.R.M. No. 46061C0886 H DATED AUGUST 23, 1989.

HORIZONTAL DATUM: NAD 83
VERTICAL DATUM: NAVD 88
BENCHMARK: TBM 1/2" IRON PIPE
ELVATION=14.61 SHOWN
ON SHEET 2 OF 3

LIST OF MATERIALS:

1,588 - L.F. OF 3" CLASS 160 FORCEMAIN
15 - L.F. OF 2" CLASS 160 FORCEMAIN
3 - 2" GATE VALVES
3 - 3" 90° BENDS
1 - 6" 2" REDUCER
1 - 3" 2" REDUCER
1 - WETWELL
1 - 6" GATE VALVE

TO SERVICE 1 LOT

DATE OF INSTALLATION:
SPRING 2011

RECORD DRAWING NOTES:

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- OWNER OF RECORD: GSW&A
P.O. BOX 2368
CONWAY, SC 29528
843-443-8200
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- WATER SYSTEMS RECORD DRAWING SOLELY BASED UPON INFORMATION PROVIDED BY GSW&A "BUCKSPORT COMPOST FACILITY DESIGN" DATED SEPTEMBER 2010

LEGEND

○ LIGHT POLEPOST	○ SEWER MANHOLE
○ GAS VALVE	○ SEWER SERVICE
○ GAS LINE SERVICE	○ AIR RELEASE VALVE
○ OVERHEAD POWER LINE	○ FIRE HYDRANT
○ POWER BOX/TRANSFORMER	○ WATER VALVE
○ UTILITY POLE W/COY	○ WATER SERVICE
○ TELEPHONE BOX/PEDESTAL	○ TEMPORARY BENCH MARK /
○ TELEPHONE	○ CORE LOCATION
○ UNDERGROUND ELECTRIC	○ ELECTRIC OUTLET
○ CATV BOX/PEDESTAL	○ DRAINAGE PIPE
○ JUNCTION BOX	○ CONCRETE AREA
○ CATCH BASIN	○ BUILDING AREA
○ FORCEMAIN LINE	
○ SEWERLINE	
○ WATERLINE	

SANITARY SEWER SYSTEMS RECORD DRAWING FOR: GSWSA BUCKSPORT COMPOSTING FACILITY

GEOTECHNICAL CONSULTANT

S&ME, INC.
1330 HWY 501 BUSINESS
CONWAY, SC 29528
(843) 347-7800

LAND SURVEYOR

ASSOCIATED LAND SURVEYORS
2411 OAK STREET, SUITE 304
MYRTLE BEACH, SC 29577
(843) 626-7393

OWNER / DEVELOPER

GSWSA
P.O. BOX 2368
CONWAY, SC 29528
(843) 443-8200
CONTACT: CHRISTY EVERETT

CONTRACTOR

M.B. KAHN CONSTRUCTION CO., INC.
736 HIGHWAY 501 EAST
CONWAY, S.C. 29526
(843) 234-6490
CONTACT: LINDSAY McKNIGHT

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PERMIT NUMBERS

SCDHEC-OCRM PERMIT No. #
SCR10M921
SCDHEC SEWER PERMIT No. #
No. 36375-WW

USACOE PERMIT No. # SAC81-2005-1174-3
DATED JULY 19, 2005

HORRY COUNTY STAMPED PLAN APPROVALS
DATED JULY 21, 2010

PROJECT SUMMARY:

COMPOSTING FACILITY LOCATED IN
BUCKSPORT, HORRY COUNTY, SC

TAX PARCEL: PORTION OF TMS#183-00-04-055

CURRENT ZONING: LFA

TOTAL PROJECT AREA - 14.59 ACRES

PROPOSED LAND DISTURBANCE AREA - 9.19 ACRES

USE: COMPOST FACILITY

SEWER: PRIVATE SERVICES

SHEET INDEX

DESCRIPTION

RECORD DRAWING COVER SHEET
SANITARY SEWER SYSTEMS RECORD DRAWING

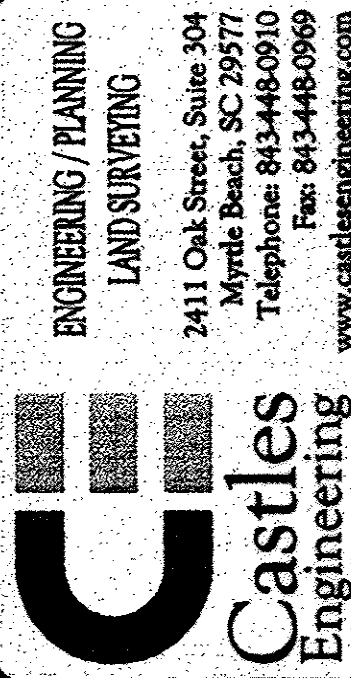
SHEET

1 OF 3
2 OF 3 - 3 OF 3

I HEREBY CERTIFY THAT THE SANITARY SEWER SYSTEMS SHOWN
HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED
CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND ARE, TO
THE BEST OF MY KNOWLEDGE, AS SHOWN ON THESE RECORD
DRAWINGS.

JOHN H. POSTON, P.E., P.L.S.
#20964
REGISTRATION NUMBER

DATE
06-09-11



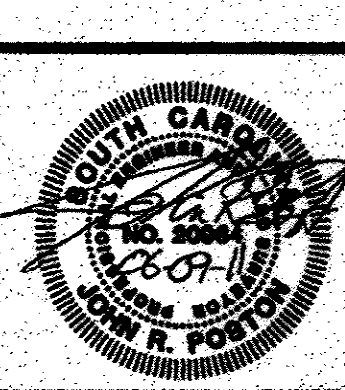
SANITARY SEWER SYSTEMS RECORD DRAWING
COVER SHEET

BUCKSPORT COMPOSTING FACILITY

for
GRAND STRAND WATER & SEWER AUTHORITY
HORRY COUNTY, SOUTH CAROLINA

SCALE: NTS
DESIGNED BY: TEE
DRAWN BY: TCM
CHECKED BY: JRP
DATE ISSUED: 06/25/11

Project	Sheet	Revision	By	Date
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3	3	1	TEE	06/25/11
4	4	1	TEE	06/25/11
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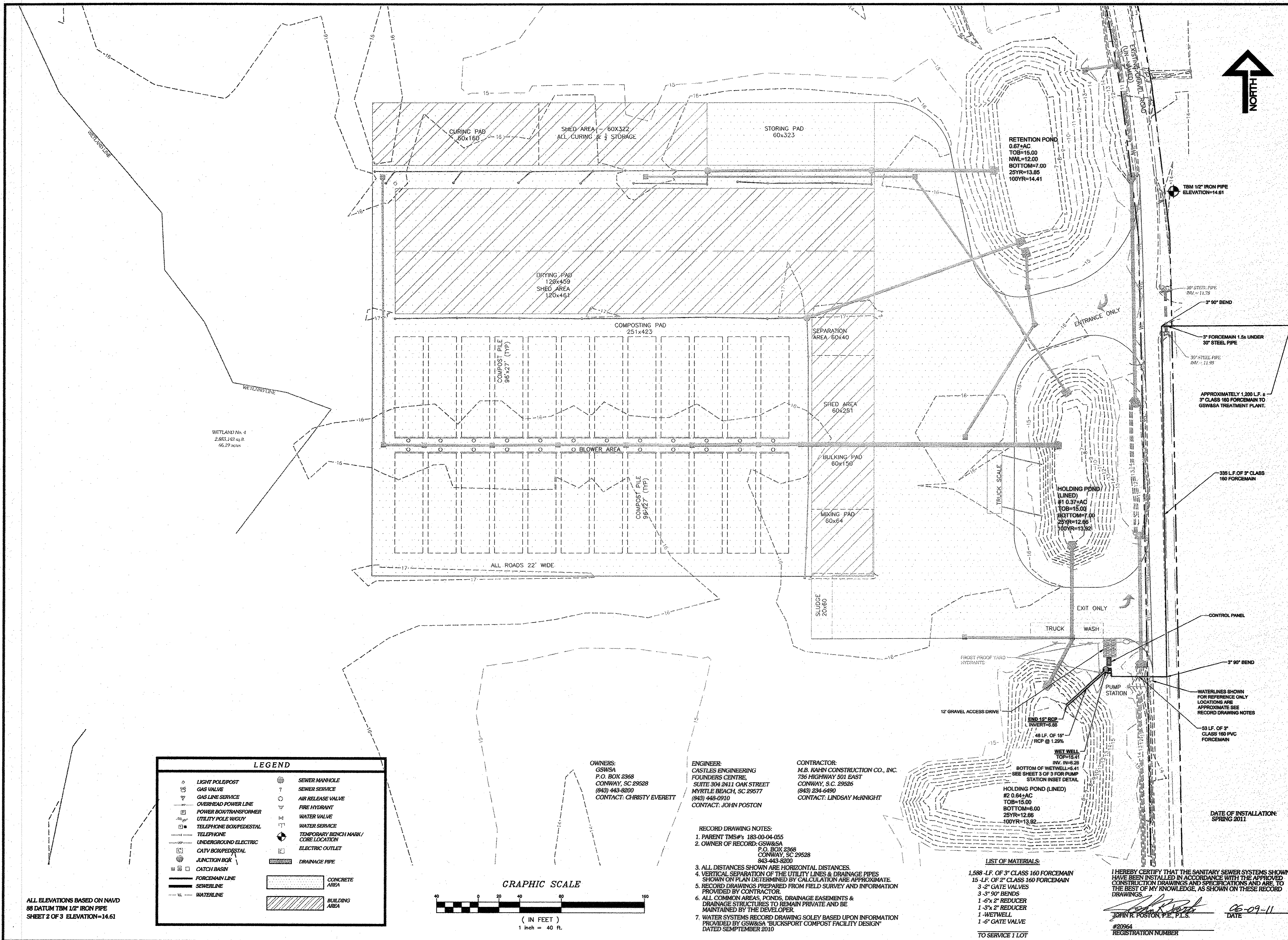


SHEET NUMBER:

1 OF 3

PROJECT#: 09.030

20-048-003/5



ENGINEERING / PLANNING
LAND SURVEYING
2411 Oak Street, Suite 304
Myrtle Beach, SC 29577
Telephone: 843-448-0910
Fax: 843-448-0969
www.castlesengineering.com

Castles Engineering

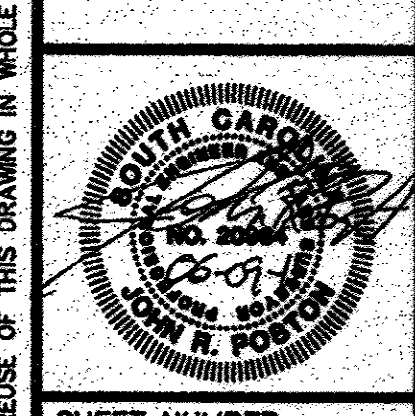
**SANITARY SEWER SYSTEMS
RECORD DRAWING**

BUCKSPORT COMPOSTING FACILITY

for
GRAND STRAND WATER & SEWER AUTHORITY
HORRY COUNTY, SOUTH CAROLINA

SCALE: 1"=40'
DESIGNED BY: TCM
DRAWN BY: TCM
CHECKED BY: JBP
DATE ISSUED: 05/25/11

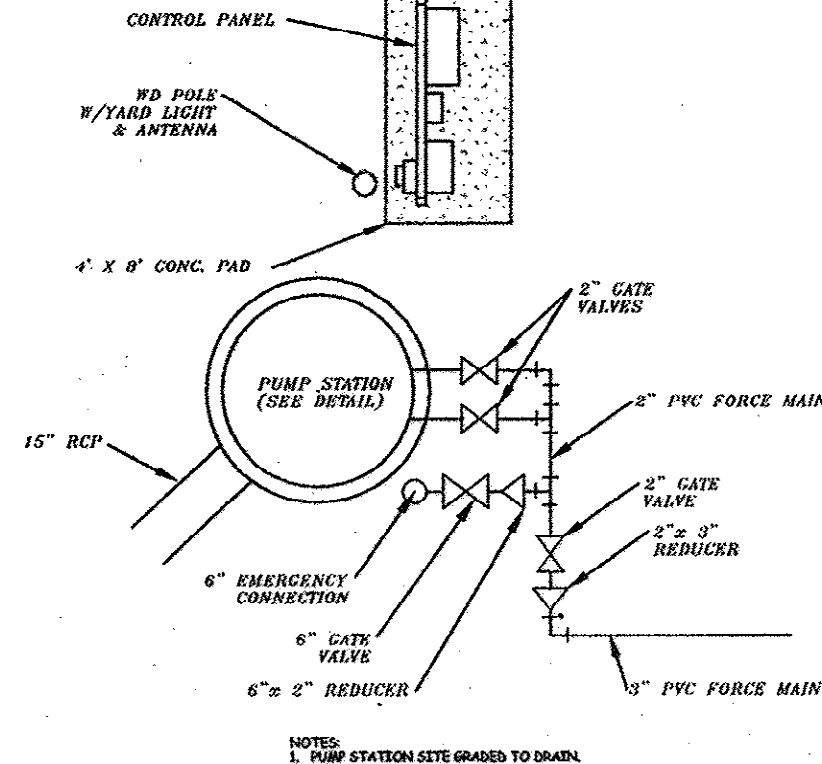
Revised	Date	By	Reason



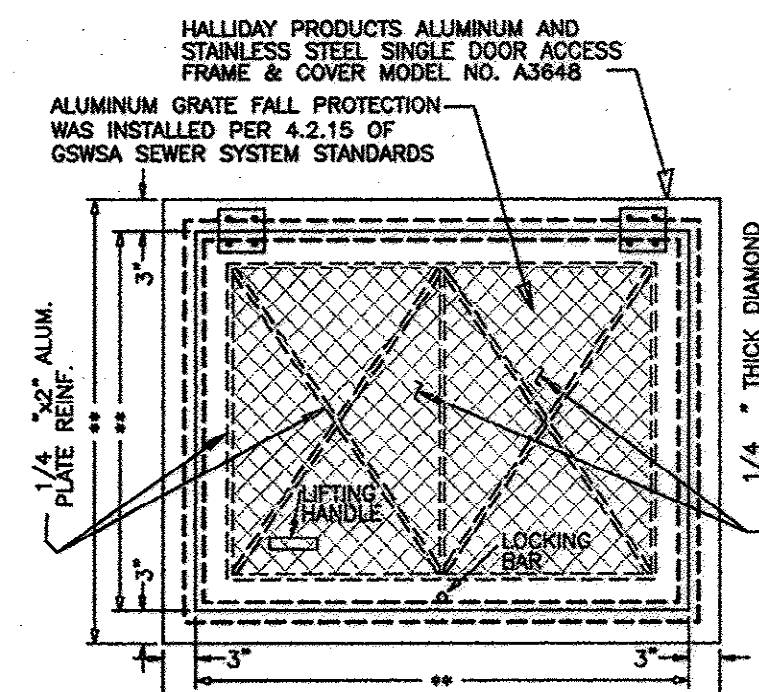
SHEET NUMBER:
2 OF 3

PROJECT#: 08.030

26-048-004 / 5



N.T.S.

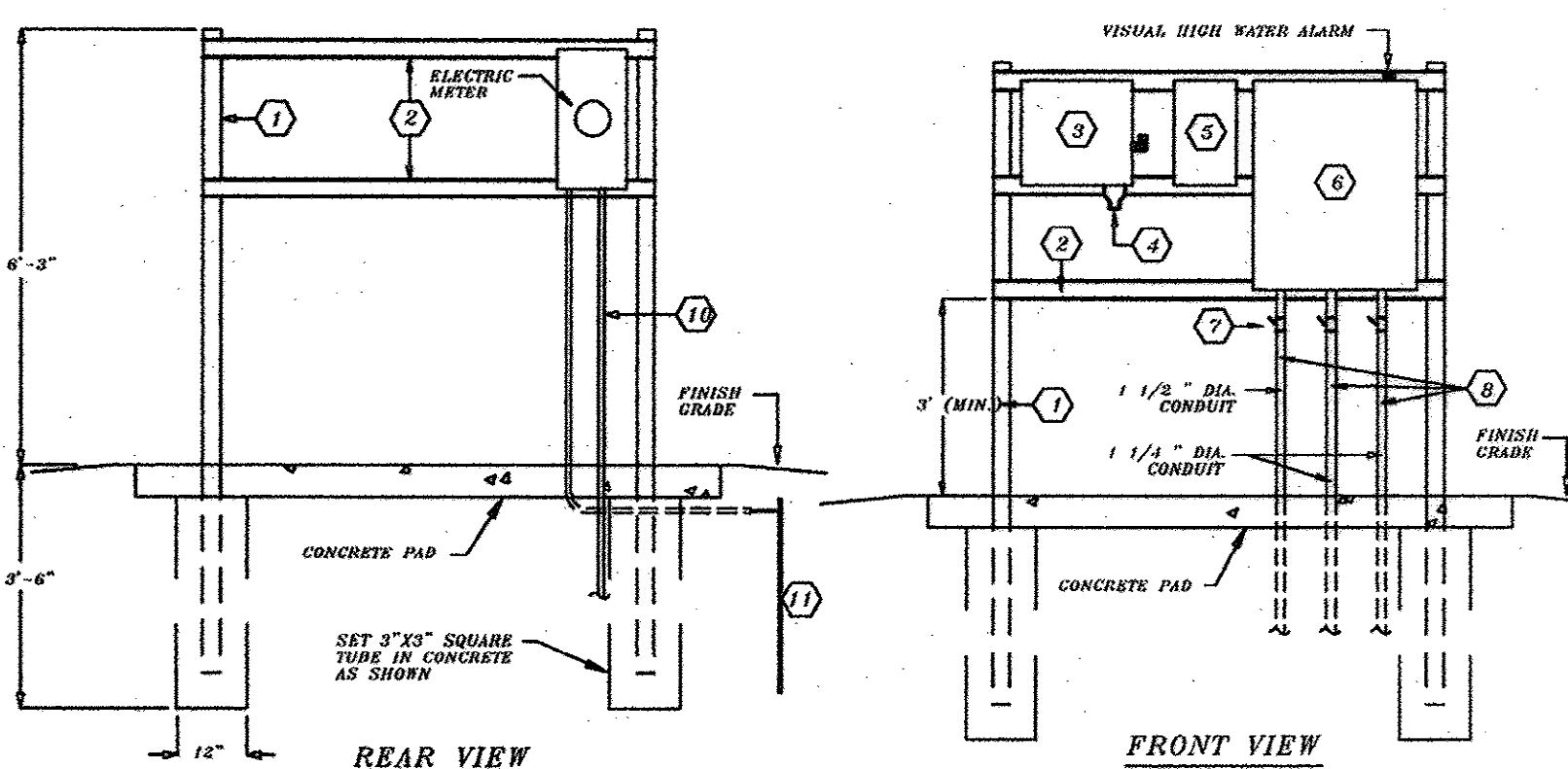


(**SIZE AND LOCATION WITHIN TOP SLAB OF PUMP STATION
WERE PER MANUFACTURER'S RECOMMENDATION)
N.T.S.

N.T.S.

- 1 ALUMINUM SHUNT BOX 3" X 2" X 1/2" - 1/8" CAP. 50' LONG
TYPE ALUMINUM 3/4" 3/8" 1/2" 1/4" 3/16"
- 2 ALUMINUM PLAT BAR 3/4" X 1/2" X 6'-6". ALL BOLTS,
NUTS, WASHERS, ETC. NECESSARY TO FABRICATE
BARS AND INSTALL EQUIPMENT ARE STAINLESS
STEEL.
- 3 SQUARE 4 NEMA 3R DOUBLER THRU SWITCH.
- 4 CROUSE HINDS AP4 1047 RECEPT.
- 5 PUMP TYPE 1 GALVANIZED ENCLOSURE. SQUARE 4 DO
OR 6 INCH CIRCULAR.
- 6 PUMP CONTROLLER MOUNT TOP SIX FEET ABOVE SLAB,
MUNA CAST STAINLESS STEEL WITH 5 POINT LATCH
AND 1/2" CIRCULAR LOCK.
- 7 EYE SLASH FITTINGS WITH DUSSEAL.
- 8 2-1/4" PVC CONDUIT TO RETRIBUL FOR PUMP PUMP
CABLES. 1-1/2" PVC CONDUIT TO RETRIBUL FOR FLY
CABLES.
- 9 1/4" - 1/2" PVC CONDUIT WITH 4-SETTHIN CONNECTORS TO
CITY AND CITY CONDUIT.
- 10 GROUND ROD AND CLAMP.

1. ELECTRICAL WORK WAS PERFORMED BY AN ELECTRICAL CONTRACTOR WITH AN APPROPRIATE BUSINESS LICENSE.
2. ELECTRICAL PERMITS WERE APPLIED FOR AT Horry COUNTY BUILDING INSPECTION OFFICE.
3. REFERENCE PUMP STATION SPECIFICATIONS FOR ALL PLC/RADIO CONTROL REQUIREMENTS AND ALL ELECTRIC AND CONTROL REQUIREMENTS MET. PLC/RADIO PACKAGE NOT SHOWN.



ALL ELEVATIONS BASED ON NAVD
88 DATUM TBM 1/2" IRON PIPE
SHEET 2 OF 3 ELEVATION=14.61

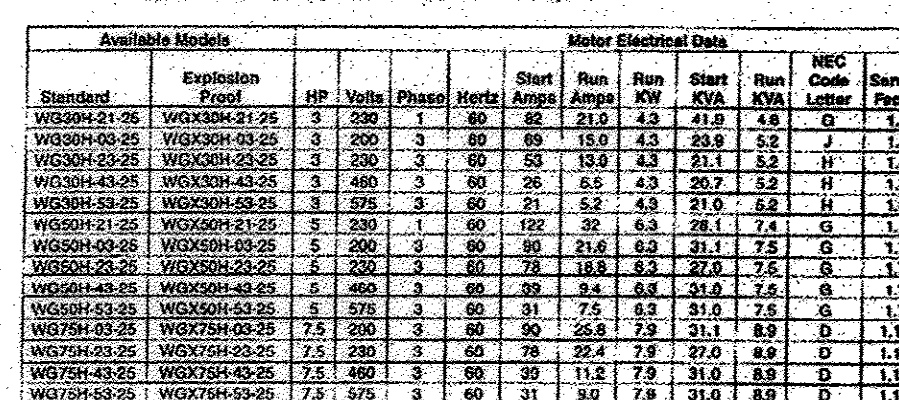
OWNERS:
GSWSA
P.O. BOX 2368
CONWAY, SC 29528
(843) 443-8200
CONTACT: CHRISTY EVERETT

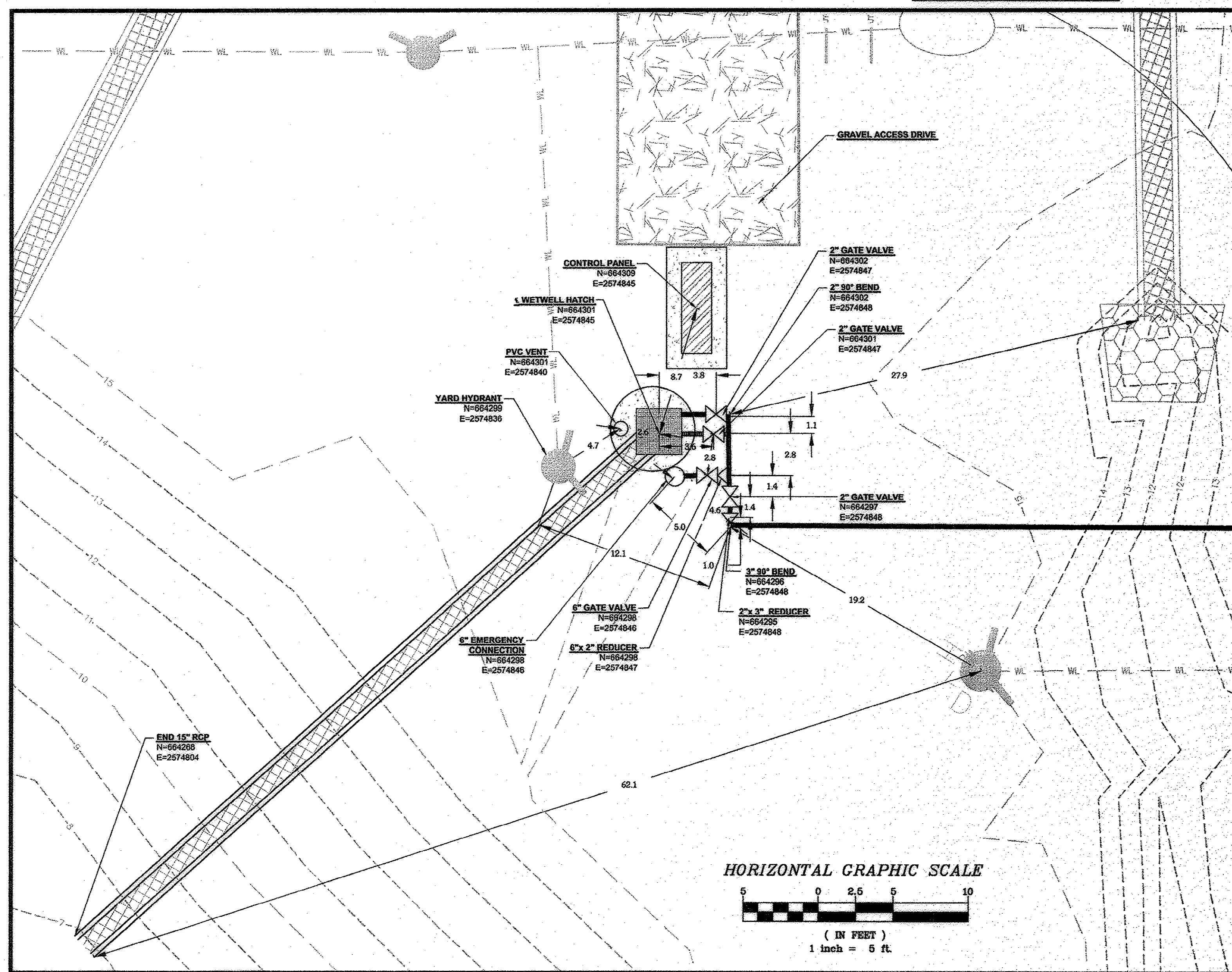
CONTRACTOR:
M.B. KAHN CONSTRUCTION CO., INC.
736 HIGHWAY 501 EAST
CONWAY, S.C. 29526
(843) 234-6490
CONTACT: LINDSAY McKNIGHT

ENGINEER:
CASTLES ENGINEERING
FOUNDERS CENTRE,
SUITE 304 2411 OAK STREET
MYRTLE BEACH, SC 29577
(843) 448-0910
CONTACT: JOHN POSTON

1. ALL ROPE AND MATERIALS DO CONFORM TO REQUIREMENTS OF MARITIME PRACTICES FOR A SAFER AND ANIMATED SAFER SYSTEM STANDARDS & SPECIFICATIONS.
2. ALL HIGHERS, GUIDE HOLLERS, CABLE HOLLERS, ALL NUTS, BOLTS, WASHERS AND ALL FASTENERS SHALL BE GALVANIZED.
3. THE NEMA 4 ENCLLOSURES ARE STAINLESS STEEL OR FIBERGLASS, AND MAIN TIGHT.
4. ALL WETTED HARDWARE MOUNTED SUCH THAT ANY CORROSION CAN REMOVED.
5. THE POWER CABLE IS WIRE NON-STOP FROM THE PUMP TO THE STATION. THE STARTER WITH NO FUNCTION BOXES OR STAPLES IN BETWEEN.
6. RETWELL SECTIONS DO CONFORM TO ASTM C-478.
7. ALL PIPING WITHIN THE RETWELL IS CLASS 5 OUTSIDE IRON PIPE.
8. PUMPS AND MOTORS DO HAVE A STAINLESS STEEL CABLE FOR LIFTING. THE LENGTH DOES REACH TO THE TOP OF THE STATION PLAYS TO THE PUMP.
9. LOCATION OF THE CONTROL PANEL HAS DETERMINED IN THE FIELD BY THE INSPECTION.
10. INSUFFICIENT PIPING TO PUMP STATION IS 15" RCP.
11. PUMPS ARE HYDRA WEGON WITH A 3 HP, 230 VOLTS, 1 PH MOTOR. STOP DRAWINGS WERE REQUIRED.
12. CONTROL PANEL DOES CONTAIN AN AUDIO AND VISUAL HIGH LEVEL LAUNCH INDICATOR.
13. PROVIDED ALUMINUM LADDER, LENGTH ADEQUATE TO EXTEND FROM 4' TO 12' HEIGHT. LADDER WAS PROVIDED TO GORSA GARD DEPT.
14. PUMP STATION PARTS ARE PROVIDED PER GORSA SPECIAL CONTRACT PROVISIONS.
15. THE LAUNCH LEVEL CONTROLS ARE MULTI-TURN. THE PUMP MOTOR WAS LAUNCH LEVELS WERE DETERMINED BY THE ENGINEER OF WFLA AND APPROVED BY GORSA. THE TRANSMITTER-RECEIVER IS MOUNTED ON THE LAUNCH LEVEL.
16. INTERIOR COATING FOR RET WELLS DOES COMPLY WITH 4.2.8 1/2" SPACING.
17. PUMP STATION RETWELL IS EQUIPPED WITH WELL PROTECTION AS PER 4.2.1.5 OF GRAND STRAND WATER & SEWER AUTHORITY SEWER

INLET	PIPE I.D.	15" RCP
	ELEVATION	6.26
	INSIDE DIAMETER	4'
WET WELL	TOP ELEVATION	15.41
	HIGH WATER LEVEL	14.00
	LOW WATER LEVEL	6.00
	FLOOR ELEVATION	5.41
SENSOR ELEV.	ALARM SIGNAL ON	14.00
	LAC PUMP ON	12.00
	LEAD PUMP ON	7.00
	PUMPS OFF	6.00
PUMPS	MODEL (PUMP/MANUF.)	WG30H/MYERS
	IMPELLER (SELECTION)	MYERS REDUCED DOWNS
	DISCHARGE PIPING	2"
	CHECK VALVE SIZE	2"
	PLUG VALVE SIZE	2"
	DESIGN FLOW*	75 GPM
	DESIGN HEAD* (TDH)	40
	VOLTAGE	230
	PHASE	1
	HORSEPOWER	3 HP
RPM (PUMP/MOTOR)		3450





1,588 -1F. OF 3" CLASS 160 FORCEMAIN
15 -1F. OF 2" CLASS 160 FORCEMAIN
3 -2" GATE VALVES
3 -3" 90° BENDS
1 -6"x 2" REDUCER
1 -3"x 2" REDUCER
1 -WETWELL
1 -6" GATE VALVE

TO SERVICE 1 LOT

1. PARENT TMS#'s 183-00-04-055
2. OWNER OF RECORD: GSW&SA
P.O. BOX
CONWAY
843-443-8

3. ALL DISTANCES SHOWN ARE HORIZONTAL DISTANCES.
4. VERTICAL SEPARATION OF THE UTILITY LINES & DRAINAGE PIPES SHOWN ON PLAN DETERMINED BY CALCULATION ARE APPROXIMATE.
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7. WATER SYSTEMS RECORD DRAWING SOLEY BASED UPON INFORMATION PROVIDED BY GSW&S "BUCKSPORT COMPOST FACILITY DESIGN"

DATE OF INSTALLATION
SPRING 2011

I HEREBY CERTIFY THAT THE SANITARY SEWER SYSTEMS SHOWN
HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED
CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND ARE,
TO THE BEST OF MY KNOWLEDGE, AS SHOWN ON THESE RECORD
DRAWINGS.


JOHN K. POSTON, P.E., P.L.S.

06-09-11
DATE

#20964
REGISTRATION NUMBER

26-048-COS/S

Castles Engineering

**ENGINEERING / PLANNING
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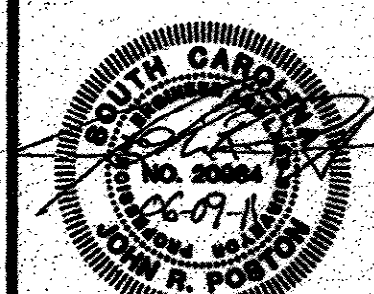
**SANITARY SEWER SYSTEMS
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BUCKSPORT COMPOSTING FACILITY

for
GRAND STRAND WATER & SEWER AUTHORITY
HORRY COUNTY, SOUTH CAROLINA

SCALE:	AS SHOWN
DESIGNED BY:	TEH
DRAWN BY:	TCM
CHECKED BY:	JRP
DATE ISSUED:	05/25/11

WRITTEN PERMISSION IS STRICTLY FORBIDDEN



SHEET NUMBER

3 OF 3

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