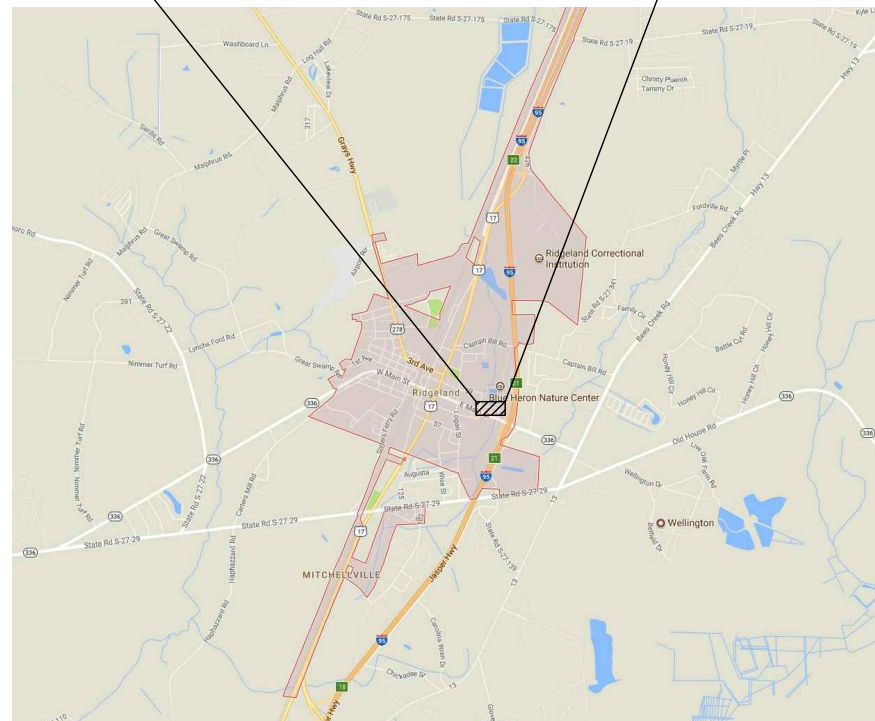
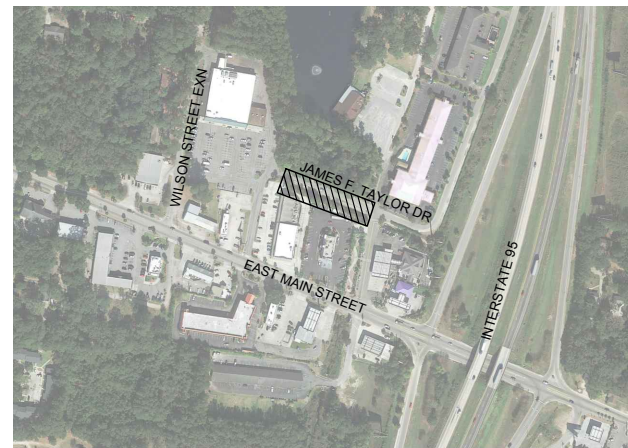


# JAMES F. TAYLOR DRIVE, DITCH IMPROVEMENTS - PHASE 1

## TOWN OF RIDGELAND

### RIDGELAND, SOUTH CAROLINA



PROJECT LOCATION



**MAYOR**  
 JOSEPH N. MALPHRUS, JR  
**MAYOR PRO TEMPORE**  
 TOMMY RHODES  
**COUNCIL MEMBERS**  
 JOSEPHINE BOYLES  
 CHRIS DUBOSE  
 GRADY WOODS  
**TOWN ADMINISTRATOR**  
 DENNIS E. AVERKIN

PREPARED BY



PROJECT NO. 17-1007.008

GENERAL SHEET INDEX	
NUMBER	TITLE
COVER	COVER AND SHEET INDEX
G-1	GENERAL NOTES
G-2	EXISTING CONDITIONS AND KEY MAP

CIVIL SHEET INDEX	
NUMBER	TITLE
C-1	PROPOSED IMPROVEMENTS
C-2	PROPOSED IMPROVEMENTS
D-1	CONSTRUCTION DETAILS

DATE: JANUARY 2018  
 ISSUE: 100%

Signature Michael R. Kink, P.E. SC Professional Eng. # 26229		Date
REV	DATE	DESCRIPTION
1		
2		
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<b>COVER AND SHEET INDEX</b>		
TOWN OF RIDGELAND RIDGELAND, SOUTH CAROLINA		
- JAMES F. TAYLOR DRIVE DITCH IMPROVEMENTS - PHASE 1		
DESIGN	DRAWN	ISSUE
M/RK	S/LD	ISSUE
NUMBER	17-1007.008	DATE
	JANUARY	2018
		BID
<b>FOUR WATERS ENGINEERING</b>		
324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250 904-414-2400 C.O.A.# 5166 WWW.4WENG.COM		
DRAWING NUMBER <b>COVER</b>		

STEVE DUCHARME LOCATION: R17-1007.08 JAMES TAYLOR\_DRAINAGE\_X\CDS17-1007\_4W\_BASEFILE.DWG

**GENERAL NOTES:**

1. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED FROM SURVEY PERFORMED BY TGS LAND SURVEYING JOB NUMBER 10070T-17. HORIZONTAL DATUM BASED ON NAD 83 AND VERTICAL DATUM BASED ON NGVD 29 DATUM.
2. THE CONTRACTOR SHALL PROTECT ALL BENCHMARKS AND MONUMENTS FROM DAMAGE AND SHALL ESTABLISH OFFSET POINTS AS REQUIRED FOR THIS WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL SCHEDULED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
3. ALL CONSTRUCTION THAT PERTAINS TO WATER AND SEWER SHALL CONFORM TO THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS, LATEST EDITION. ALL CONSTRUCTION THAT PERTAINS TO ROADWAY AND DRAINAGE THAT IS NOT SPECIFICALLY NOTED OR DETAILED IN THE CONSTRUCTION DRAWINGS SHALL CONFORM TO THE SCDOT SPECIFICATIONS, LATEST EDITION.
4. AVAILABLE INFORMATION AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES. THE RESULT OF SUCH INVESTIGATIONS, AS MAY BE SHOWN ON THE CONTRACT DRAWING, ARE NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY MARK-OUT SERVICE PROVIDER AND VERIFY AREA OF ALL UTILITIES (AS NECESSARY) PRIOR TO COMMENCING WORK.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY EXISTING ABOVEGROUND AND UNDERGROUND UTILITIES, CONDUITS, STRUCTURES, EQUIPMENT, FOUNDATIONS, PIPE, ETC. AS NECESSARY TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE OWNER'S OF THE UTILITY 72 HOURS PRIOR TO STARTING WORK AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME. VARIOUS UTILITIES MAY NEED TO BE RESET BY THE AFFECTED UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE UTILITY COMPANY TO AVOID DELAYS. NO EXTENSION OF TIME WILL BE PROVIDED DUE TO THE LACK OF COORDINATION BY THE CONTRACTOR. THE CONTRACTOR SHALL PERFORM TEST PITS WHERE EXISTING UTILITIES ARE TO BE CROSSED. TEST PIT INFORMATION SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS MAY BE REQUIRED TO AVOID CONFLICTS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS WITHIN SCDOT AND TOWN R.O.W.'S AND EASEMENTS. ALL SURVEY LAYOUT VERIFYING THE EXACT LOCATION OF THE R.O.W.'S SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS FOR SAME SHALL BE INCLUDED WITHIN THE VARIOUS BID ITEMS.
7. THE CONTRACTOR SHALL TAKE CARE IN MAINTAINING ALL LANDSCAPING AND YARD STRUCTURES WITHIN THE CONSTRUCTION LIMITS AS NECESSARY PER PROJECT. WHEN RELOCATION IS NECESSARY OR WHERE ANY DAMAGE IS DONE TO SAID ITEMS THEY SHALL BE RESTORED BY THE CONTRACTOR, AT HIS EXPENSE, TO THE SATISFACTION OF THE TOWN ENGINEER.
8. ANY CONCRETE DRIVEWAY, WALKWAY, OR CURB WHICH IS NOT SHOWN, DIRECTED, OR MARKED OUT BY THE ENGINEER TO BE REPLACED, BUT IS REMOVED, MISALIGNED OR DAMAGED AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR PER DETAILS IN THE CONSTRUCTION DRAWINGS OR (IF NOT INDICATED IN THE CONSTRUCTION DRAWINGS) SCDOT STANDARDS AT NO ADDITIONAL COSTS TO THE TOWN.
9. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE AWAY FROM RESIDENCES AND ALONG ROAD GUTTERS IS MAINTAINED AT ALL LOCATIONS DISTURBED WITH IN THE PROJECT LIMITS.
10. IF IT SHALL BECOME ABSOLUTELY NECESSARY TO PERFORM WORK AT NIGHT, THE TOWN SHALL BE INFORMED IN ADVANCE. GOOD LIGHTING AND ALL OTHER NECESSARY FACILITIES FOR PROPERLY CARRYING OUT AND INSPECTING THE WORK SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL STATE AND LOCAL REGULATIONS GOVERNING HOURS DURING WHICH CONSTRUCTION EQUIPMENT MAY BE OPERATED. NIGHT WORK MAINTENANCE OF TRAFFIC INCLUDING PEDESTRIAN MUST BE SET UP AND MAINTAINED DURING NIGHT WORK AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
11. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. NO EXCAVATION AREAS ARE TO REMAIN OPEN OVERNIGHT. BITUMINOUS STABILIZED BASE COURSE SHALL BE PLACED IN ALL TRENCH AREAS WITHIN THE ROADWAY AT THE END OF EACH DAYS WORK.
12. IN THE EVENT A SITUATION ARISES IN WHICH MATERIALS NOT SPECIFIED ON THE PLANS ARE TO BE USED FOR EXTRA WORK, THEN THE MATERIALS SHALL CONFORM TO THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS AND SCDOT SPECIFICATIONS FOR ROADWAY AND DRAINAGE SYSTEMS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL MATERIALS EXCAVATED OF WHATEVER NATURE AT HIS OWN EXPENSE. THE TOWN IS NOT OBLIGATED TO SUPPLY A DISPOSAL SITE. THE CONTRACTOR CANNOT DEPOSIT ANY OF THE EXCESS MATERIALS WITHIN TOWN LIMITS WITHOUT THE EXPRESS PERMISSION OF THE TOWN. MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH ALL STATE REGULATIONS REGARDING SAME.
14. ALL STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND DETAILS.
15. PROTECTION OF EXISTING TREES WITHIN THE LIMITS OF DISTURBANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE TOWN ENGINEER SHALL DETERMINE IN THE FIELD WHICH TREES REQUIRE TREE PROTECTION PER PROJECT AS NECESSARY. NO CONSTRUCTION EQUIPMENT OR SUPPLIES SHALL BE STOCKPILED OR STORED WITHIN THE DRIP LINE OF ANY EXISTING TREE TO REMAIN.
16. ALL PROPERTY CORNERS OR MONUMENTS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY A SOUTH CAROLINA LICENSED LAND SURVEYOR, AT NO ADDITIONAL COST TO THE TOWN.
17. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN DUST CONTROL AS REQUIRED OR DIRECTED BY THE TOWN ENGINEER. ALL VEHICLES SHALL BE CLEAN AND ALL ROADWAYS SHALL BE MAINTAINED AS DIRECTED BY THE TOWN ENGINEER.
18. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE SCDOT STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PAVEMENT MARKINGS. CONTRACTOR SHALL NOTIFY TOWN ENGINEER AND SCDOT (AS NECESSARY) WHEN TRAFFIC STRIPES AND PAVEMENT MARKINGS HAVE BEEN LAID OUT PRIOR TO PAINTING. THE TOWN ENGINEER AND/OR SCDOT (AS NECESSARY) WILL INSPECT AND APPROVE LAYOUT PRIOR TO CONTRACTOR PAINTING TRAFFIC STRIPES AND PAVEMENT MARKINGS.
19. THE CONTRACTOR SHALL PERFORM ONLY THE AMOUNT OF WORK WHICH CAN BE COMPLETED THE SAME DAY. THE ENTIRE ROADWAY SHALL BE OPENED TO TRAFFIC AFTER WORK HOURS UNLESS APPROVED BY TOWN AND SCDOT (IF SCDOT ROW). SCDOT TEMPORARY PAVEMENT OR APPROVED SURFACE SHALL BE PLACED IN CONSTRUCTION AREAS TO PROVIDE A SMOOTH, SAFE SURFACE FOR VEHICULAR TRAFFIC. THE COST FOR TEMPORARY PAVEMENT SHALL BE INCLUDED IN UNIT PRICE BID FOR VARIOUS CONSTRUCTION ITEMS.
20. IN ADDITION TO ALL GRADING ACTIVITIES, THE CLEARING SITE ITEM SHALL INCLUDE THE REMOVAL OF EXISTING TREES, SHRUBS, CURBING, SIDEWALKS, FENCES, DRIVEWAYS, WALLS, PIPES, INLETS, RESIDENTIAL WALKWAYS, ASPHALT, RIP-RAP, AND OTHER FEATURES WHICH NEED TO BE REMOVED AND/OR RESET IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS. LAWN SPRINKLER SYSTEMS IF APPLICABLE TO PROJECT SHALL BE REMOVED AND REPLACED WHERE NECESSARY BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND SHALL BE PAID UNDER THE CLEARING SITE ITEM.
21. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION STAKEOUT. OFFSET LINES WITH STAKES SHALL BE SET AT APPROPRIATE INTERVALS TO FACILITATE CONSTRUCTION.
22. CUT SHEETS SHALL BE SUBMITTED FOR APPROVAL TO THE TOWN ENGINEER AND REQUIRE APPROVAL PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL ALLOW AT LEAST 7 BUSINESS DAYS FOR ENGINEER CUT SHEET REVIEW FOR EACH SUBMITTAL.
23. ALL EXISTING STRUCTURES AND ALL UNDERGROUND STRUCTURES ARE TO BE REMOVED IN ACCORDANCE WITH STATE REGULATIONS.
24. THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE SHOWN HEREIN.
25. THESE GENERAL NOTES SHALL APPLY FOR THE ENTIRE PROJECT.

**NOTES FOR MAINTENANCE AND PROTECTION OF TRAFFIC:**

1. ALL DEVICES AND PROCEDURES FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH SCDOT. THE CONTRACTOR SHALL PLAN AND CARRY OUT HIS WORK TO PROVIDE FOR THE CONVENIENT AND SAFE PASSAGE OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC ON ADJACENT STREETS.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING MAINTENANCE AND PROTECTION OF TRAFFIC THROUGH THE DURATION OF CONSTRUCTION. NO SEPARATE PAYMENTS WILL BE MADE FOR RELOCATING THE DEVICES AS REQUIRED, OR AS DIRECTED BY THE TOWN ENGINEER, DURING THE COURSE OF CONSTRUCTION.
3. DURING CONSTRUCTION, ALL ROADS SHALL BE PROPERLY MAINTAINED TO ACCOMMODATE EMERGENCY VEHICLES AT ALL TIMES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE LOCAL AND STATE POLICE DEPARTMENTS FOR TRAFFIC OPERATIONS AND PARKING PROHIBITIONS DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY DETOURS NECESSARY WITH THE POLICE, TOWN ENGINEER AND/OR FIRE DEPARTMENTS PRIOR TO CONSTRUCTION. ALL EMERGENCY VEHICLES MUST HAVE ACCESS TO STREETS AT ALL TIMES, ALL RESIDENTS MUST HAVE ACCESS TO THEIR HOMES AT ALL TIMES, AND ALL BUSINESSES MUST HAVE ACCESS TO ALLOW CUSTOMERS TO BUSINESSES AT ALL TIMES THE BUSINESSES IS IN OPERATION OR REQUIRES ACCESS. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE ROADWAY TO A SAFE CONDITION AT THE END OF EACH DAY'S WORK PER SCDOT STANDARDS.
6. ALL TRAFFIC CONTROL SIGNS AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH SCDOT. EXACT LOCATION OF STREET SIGNS AND PAVEMENT MARKINGS SHALL BE DETERMINED BY SCDOT SPECIFICATIONS.



STEVE DUCHARNE LOCATION: E:\17-1007.08 - JAMES TAYLOR - DRAINAGE\X\CS17-1007\_4W\_BASEFILE.DWG

Signature  
Michael R. Kirk, P.E.  
SC Professional Eng. # 28229  
Date

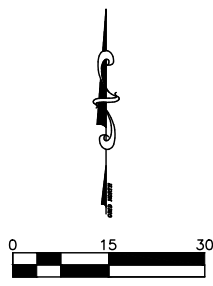
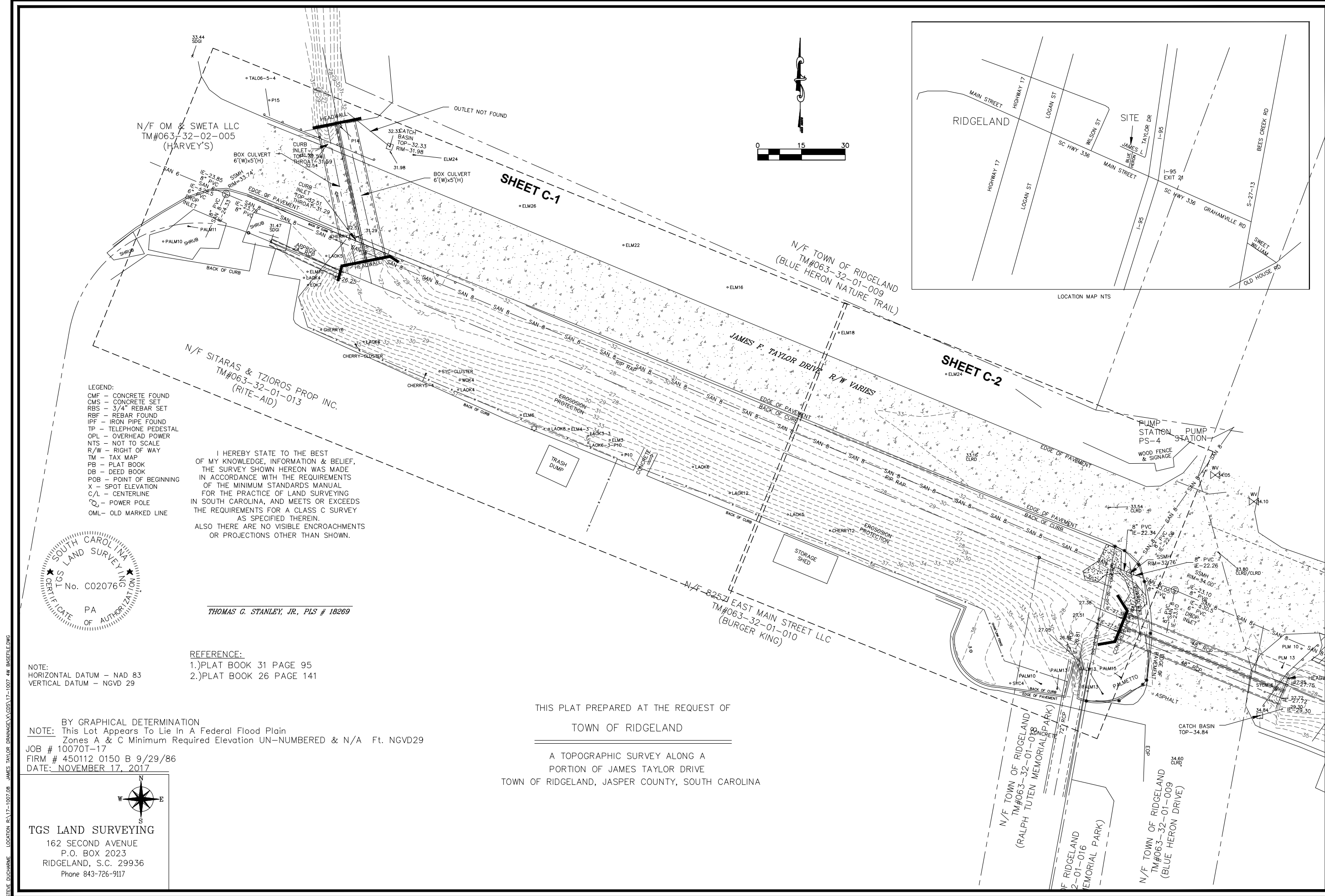
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TOWN OF RIDGELAND  
RIDGELAND, SOUTH CAROLINA  
**GENERAL NOTES**  
- JAMES F. TAYLOR DRIVE  
DITCH IMPROVEMENTS - PHASE 1

DESIGN	DRAWN	ISSUE
MRK	SLD	
JOB	17-1007.008	
NUMBER		
ISSUE	JANUARY	
DATE	2018	
ISSUE		BID

**FOUR WATERS ENGINEERING**  
324 8th AVE N. JACKSONVILLE BEACH, FLORIDA 32250  
904-414-2400 C.O.A.# 5166 WWW.4WENG.COM

DRAWING NUMBER  
**G-1**



- LEGEND:
- CMF - CONCRETE FOUND
  - CMS - CONCRETE SET
  - RBS - 3/4" REBAR SET
  - RBF - REBAR FOUND
  - IPF - IRON PIPE FOUND
  - TP - TELEPHONE PEDESTAL
  - OPL - OVERHEAD POWER
  - NTS - NOT TO SCALE
  - R/W - RIGHT OF WAY
  - TM - TAX MAP
  - PB - PLAT BOOK
  - DB - DEED BOOK
  - POB - POINT OF BEGINNING
  - X - SPOT ELEVATION
  - C/L - CENTERLINE
  - OP - POWER POLE
  - OML - OLD MARKED LINE

I HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION & BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS C SURVEY AS SPECIFIED THEREIN. ALSO THERE ARE NO VISIBLE ENCROACHMENTS OR PROJECTIONS OTHER THAN SHOWN.

THOMAS G. STANLEY, JR., PLS # 18269

- REFERENCE:
- 1.) PLAT BOOK 31 PAGE 95
  - 2.) PLAT BOOK 26 PAGE 141

NOTE:  
HORIZONTAL DATUM - NAD 83  
VERTICAL DATUM - NGVD 29

BY GRAPHICAL DETERMINATION  
NOTE: This Lot Appears To Lie In A Federal Flood Plain  
Zones A & C Minimum Required Elevation UN-NUMBERED & N/A Ft. NGVD29  
JOB # 10070T-17  
FIRM # 450112 0150 B 9/29/86  
DATE: NOVEMBER 17, 2017

THIS PLAT PREPARED AT THE REQUEST OF  
TOWN OF RIDGELAND  
A TOPOGRAPHIC SURVEY ALONG A  
PORTION OF JAMES TAYLOR DRIVE  
TOWN OF RIDGELAND, JASPER COUNTY, SOUTH CAROLINA

**TGS LAND SURVEYING**  
162 SECOND AVENUE  
P.O. BOX 2023  
RIDGELAND, S.C. 29936  
Phone 843-726-9117

Signature Michael R. Kirk, P.E. SC Professional Eng. # 26229		Date
REV	DATE	DESCRIPTION
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TOWN OF RIDGELAND  
RIDGELAND, SOUTH CAROLINA

**EXISTING CONDITIONS  
AND KEY MAP**

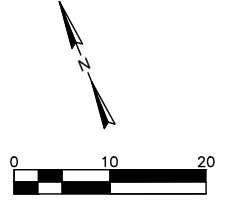
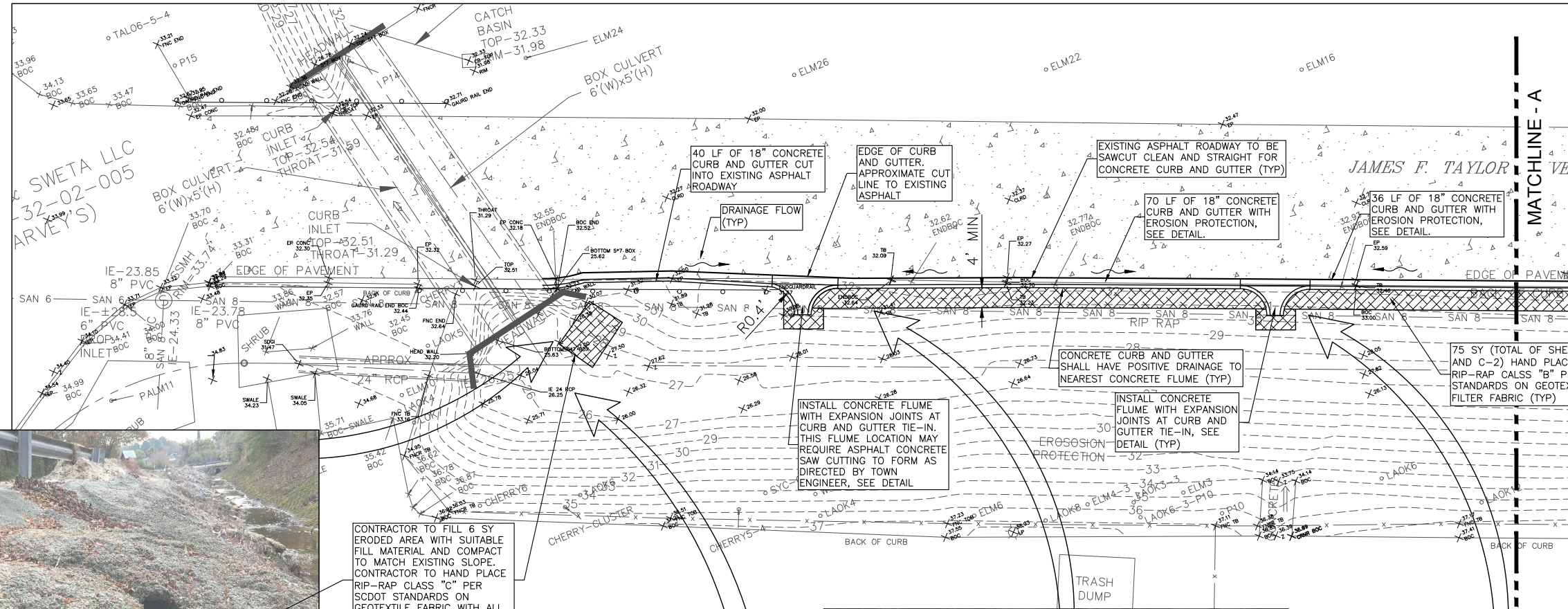
JAMES F. TAYLOR DRIVE  
DITCH IMPROVEMENTS - PHASE 1

DESIGN	DRAWN	DATE	ISSUE
MIRK	SJD	17-1007.008	
JOB NUMBER	NUMBER	JANUARY 2018	
ISSUE DATE	ISSUE		

**FOUR WATERS ENGINEERING**  
324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250  
904-414-2400 C.O.A.# 5166 WWW.FOURWATERS.COM

DRAWING NUMBER  
**G-2**

STEVE DUCHARNE LOCATION REV17-1007.08 JAMES TAYLOR.DRAINAGE.X.CRS17-1007.4W.BASEFILE.DWG



CONTRACTOR TO FILL 6 SY ERODED AREA WITH SUITABLE FILL MATERIAL AND COMPACT TO MATCH EXISTING SLOPE. CONTRACTOR TO HAND PLACE RIP-RAP CLASS "C" PER SCDOT STANDARDS ON GEOTEXTILE FABRIC WITH ALL ENDS PLACED BETWEEN STONE LAYERS. MINIMUM 2.5'

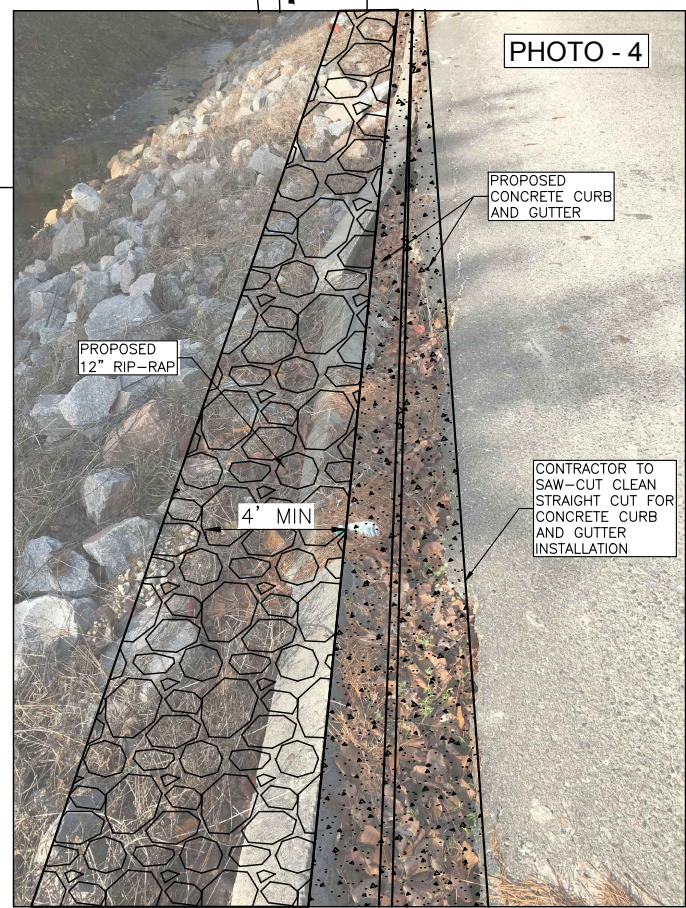
AS & TZIOROS PROP INC.  
#063-32-01-013  
(RITE-AID)



CONTRACTOR TO REMOVE AND DISPOSE OF SILT AND DEBRIS UPSTREAM AND INSIDE OF (2) CONCRETE BOX CULVERTS. CONTRACTOR SHALL REMOVE SILT AND DEBRIS TO INVERT OF CONCRETE BOX CULVERTS.



ALL EXISTING CURB TO BE REMOVED. CONTRACTOR TO BREAK CONCRETE CURB INTO 12"-24" SECTIONS TO BE REUSED. SEE SHEET C-2 FOR LOCATION (TYP)



PROPOSED CONCRETE CURB AND GUTTER

CONTRACTOR TO SAW-CUT CLEAN STRAIGHT CUT FOR CONCRETE CURB AND GUTTER INSTALLATION

Signature Michael R. Kirk, P.E. SC Professional Eng. # 26229		Date
DESIGN	DRAWN	ISSUE
MRK	SJD	17-1007-008
JOB NUMBER	DATE	ISSUE
17-1007-008	JANUARY 2016	BID
<b>FOUR WATERS ENGINEERING</b> 324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250 904-414-2400 C.O.A.# 5166 WWW.4WENG.COM		
DRAWING NUMBER		
<b>C-1</b>		

TOWN OF RIDGELAND  
RIDGELAND, SOUTH CAROLINA

**PROPOSED IMPROVEMENTS**

JAMES F. TAYLOR DRIVE  
DITCH IMPROVEMENTS - PHASE 1

REV	DATE	DRWN	CHKD	BY	DESCRIPTION
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STEVE DUCHARNE LOCATION: R17-1007-08 JAMES TAYLOR\_DRAINAGE\X\CS17-1007-4W\_BASEFILE-2.DWG



PHOTO - 5

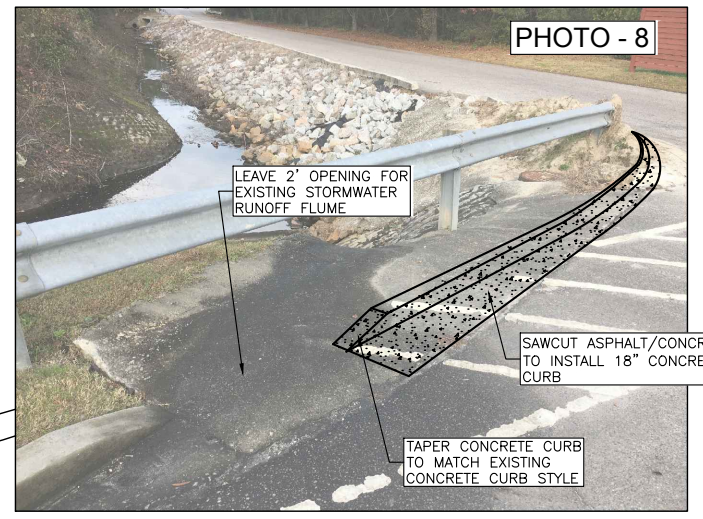
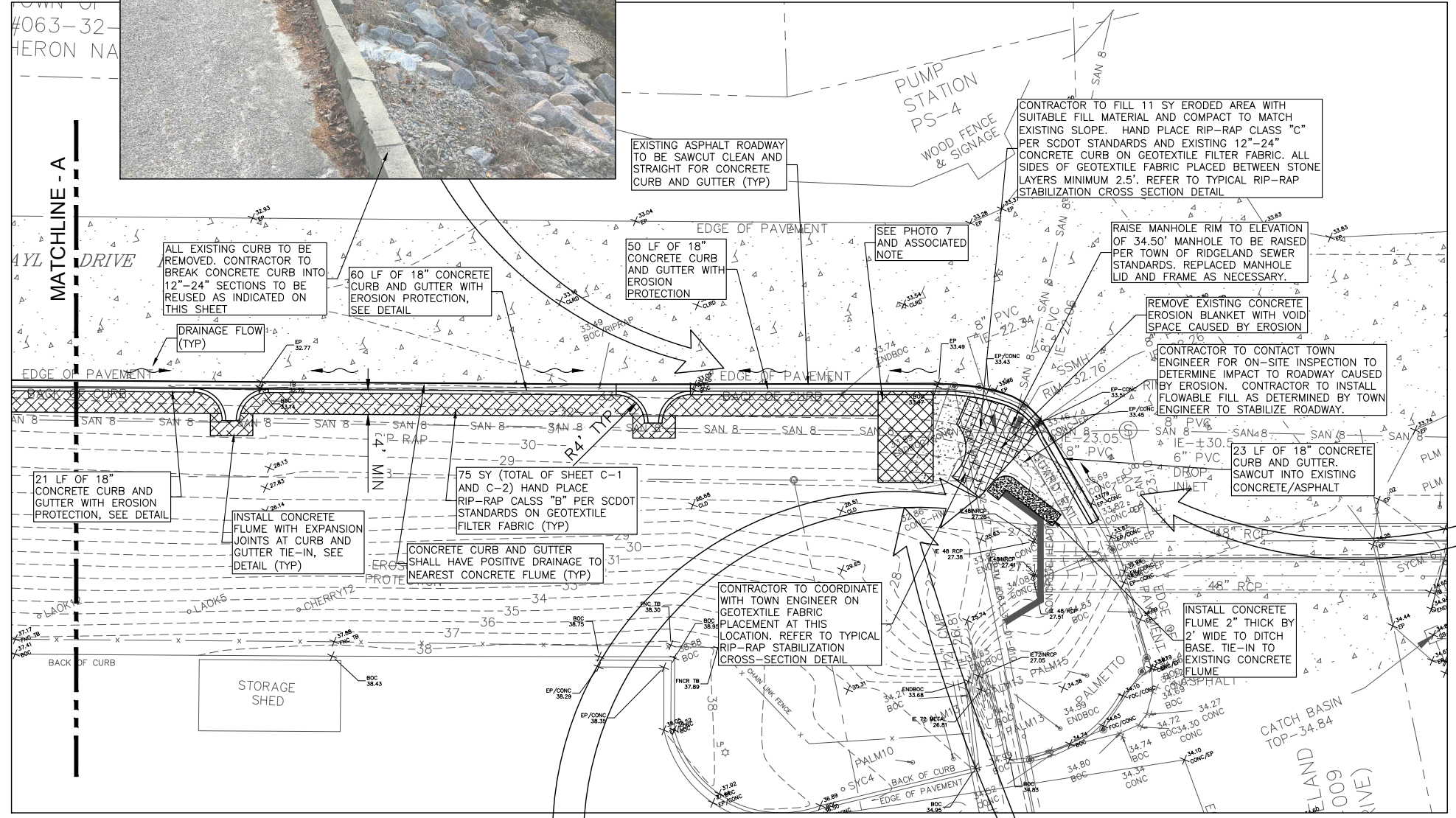
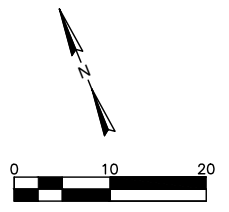


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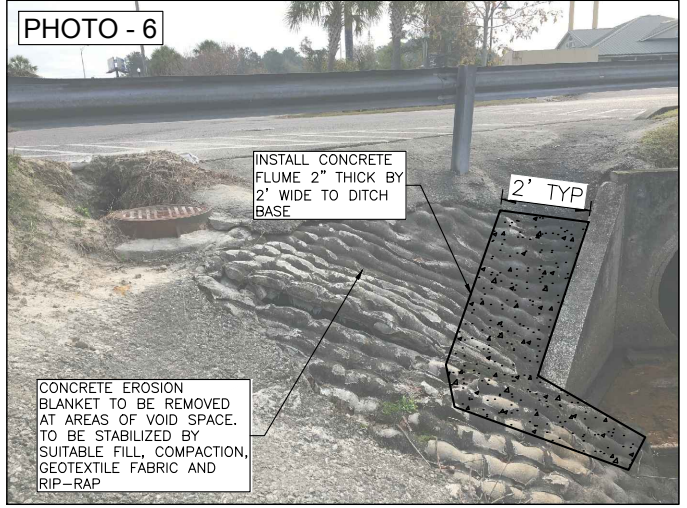


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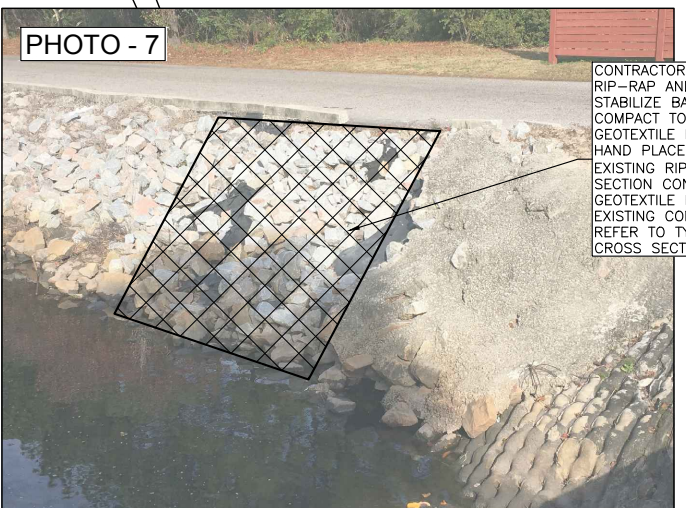


PHOTO - 7

STEVE DUCHARNE LOCATION REV.17-1007.08 JAMES TAYLOR DRAINAGE\X\CS17-1007-4W-BASEFILE-2.DWG

Signature  
Michael R. Kink, P.E.  
SC Professional Eng. # 26229  
Date

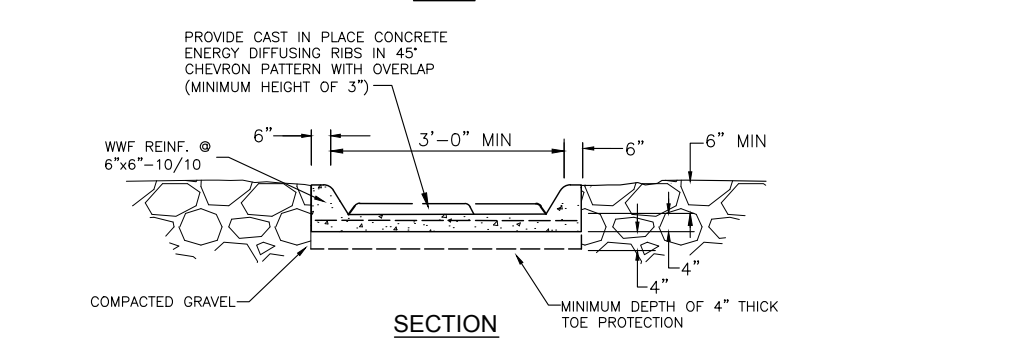
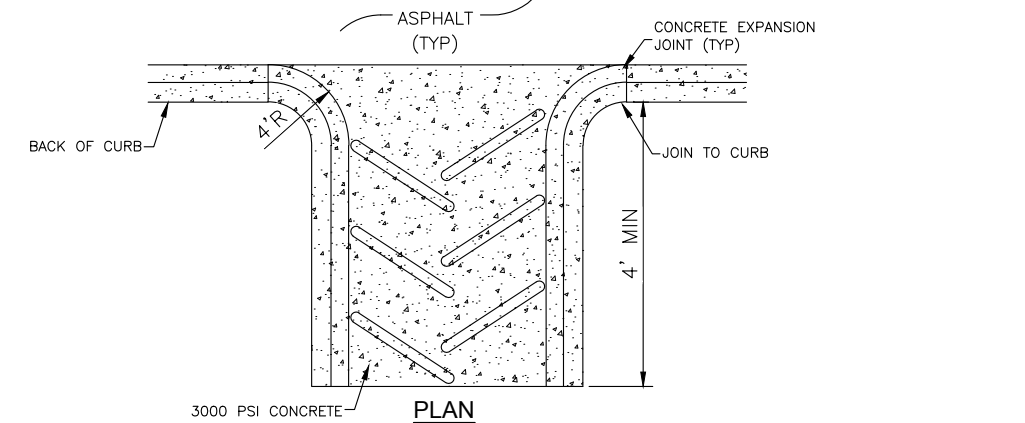
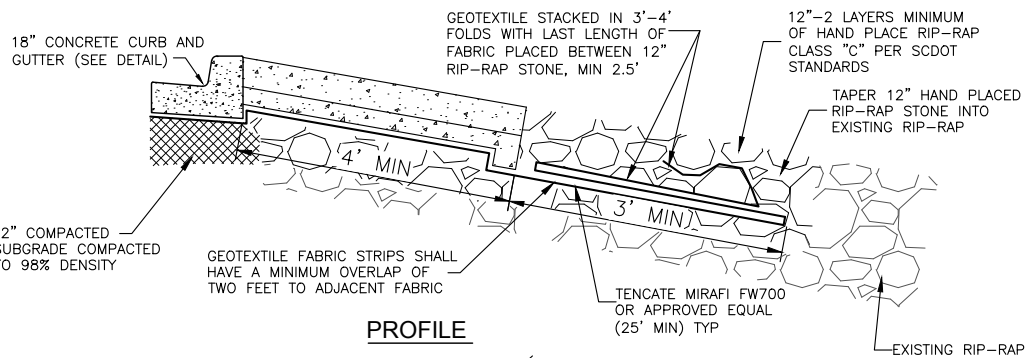
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**PROPOSED IMPROVEMENTS**  
TOWN OF RIDGELAND  
RIDGELAND, SOUTH CAROLINA  
JAMES F. TAYLOR DRIVE  
DITCH IMPROVEMENTS - PHASE 1

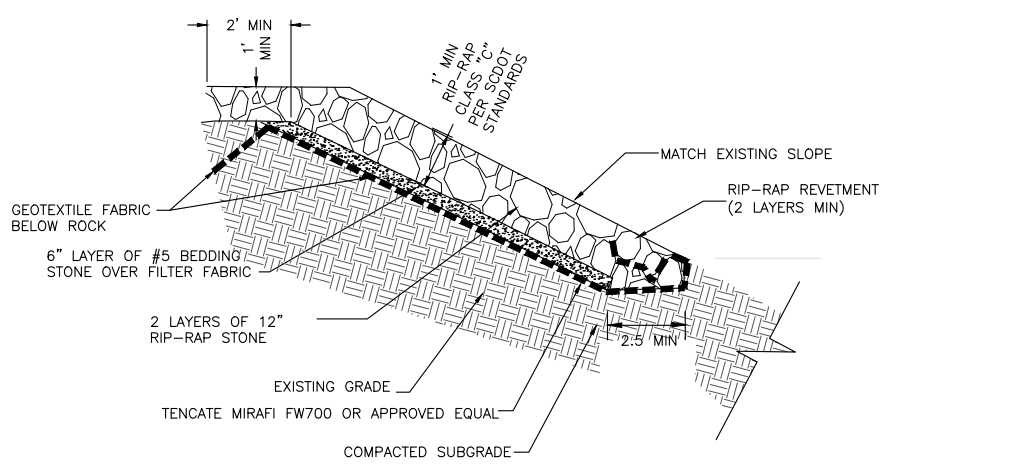
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MJK	JAN	17-1007.008	17-1007.008
NUMBER	DATE	DATE	DATE

**FOUR WATERS ENGINEERING**  
324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250  
904-414-2400 C.O.A.# 5166 WWW.4WENG.COM

DRAWING NUMBER  
**C-2**

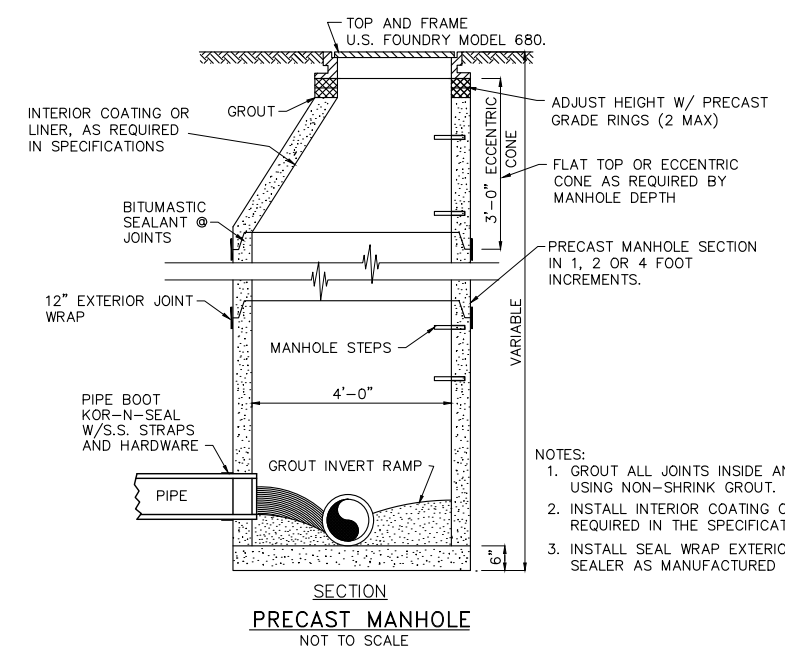


**CONCRETE DRAINAGE FLUME**

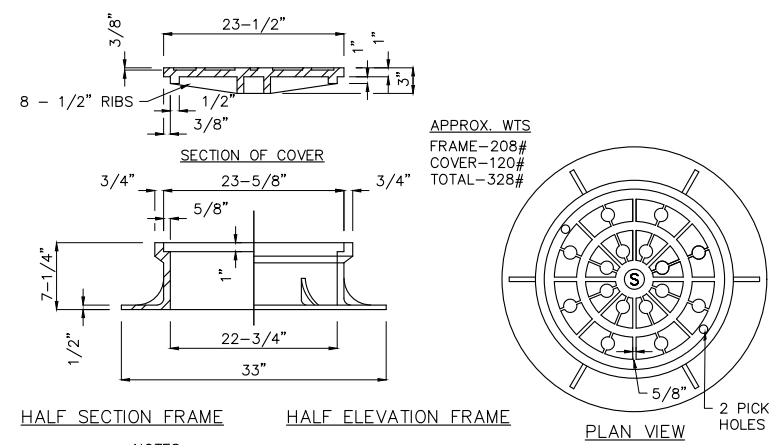


- NOTES:
1. REVETMENT STONE SHALL BE A MINIMUM OF TWO UNITS THICK AND BE PLACED TO MAXIMIZE CONTACT BETWEEN ADJACENT STONES
  2. SMALLER STONES SHALL BE UTILIZED FOR CHINKING TO ACHIEVE UNIFORM INSTALLATION CONFORMITY TO LINES AND GRADES
  3. ROCK SIZE SHOWN IS BASED ON A MINIMUM DRY UNIT WEIGHT OF 150 PCF.
  4. EXISTING GRADE SHOWN AT TIME OF SURVEY. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION
  5. GEOTEXTILE FABRIC SHALL HAVE A MINIMUM OVERLAP OF TWO FEET AND PLACED BETWEEN STONE LAYERS AT JOINTS
  6. EXISTING REVETMENT MATERIALS SHALL BE USED AS REVETMENT LAYER ON TOP OF GRADE AND NEW REVETMENT PLACED ON TOP OF EXISTING REVETMENT MATERIALS

NOT TO SCALE



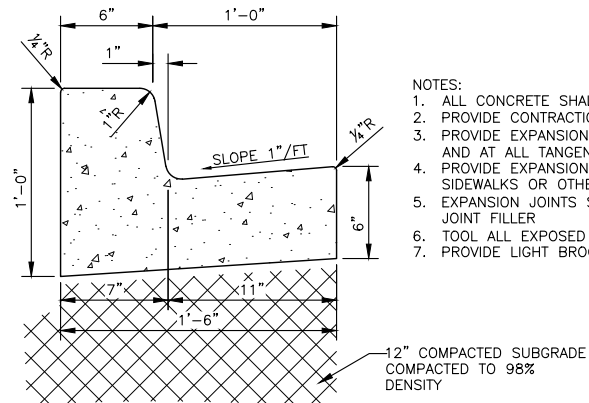
- NOTES:
1. GROUT ALL JOINTS INSIDE AND OUTSIDE USING NON-SHRINK GROUT.
  2. INSTALL INTERIOR COATING OR LINER AS REQUIRED IN THE SPECIFICATIONS.
  3. INSTALL SEAL WRAP EXTERIOR JOINT SEALER AS MANUFACTURED BY MAR-MAC.



- NOTES:
1. AS MANUFACTURED U.S. FOUNDRY MODEL 680. PROVIDE WITH 2 COATS OF BITUMASTIC PAINT.
  2. MACHINED BEARING SURFACES BETWEEN COVER AND FRAME.

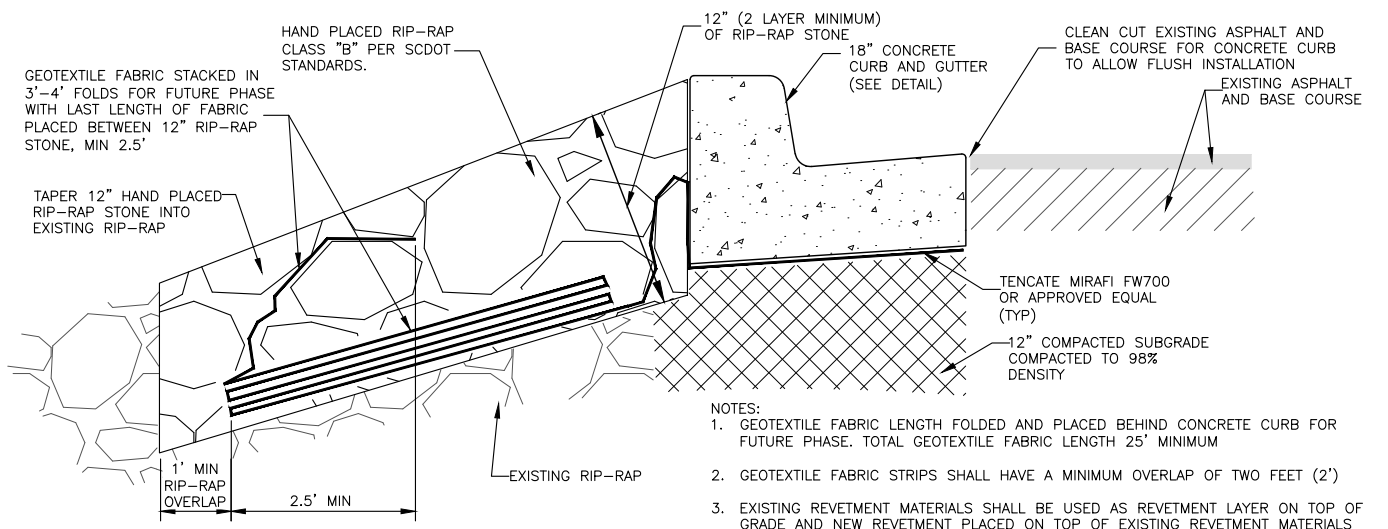
**STANDARD FRAME & COVER**

NOT TO SCALE



- NOTES:
1. ALL CONCRETE SHALL BE 3000 PSI
  2. PROVIDE CONTRACTION JOINTS EVERY TEN FEET (10')
  3. PROVIDE EXPANSION JOINTS EVERY FIFTY FEET (50') AND AT ALL TANGENT POINTS
  4. PROVIDE EXPANSION JOINTS WHERE CURB ABUTS SIDEWALKS OR OTHER STRUCTURES
  5. EXPANSION JOINTS SHALL BE 1/2" WITH PRE-MOLDED JOINT FILLER
  6. TOOL ALL EXPOSED EDGES & JOINTS TO 1/4" RADIUS
  7. PROVIDE LIGHT BROOM FINISH

**18" CONCRETE CURB AND GUTTER**



- NOTES:
1. GEOTEXTILE FABRIC LENGTH FOLDED AND PLACED BEHIND CONCRETE CURB FOR FUTURE PHASE. TOTAL GEOTEXTILE FABRIC LENGTH 25' MINIMUM
  2. GEOTEXTILE FABRIC STRIPS SHALL HAVE A MINIMUM OVERLAP OF TWO FEET (2')
  3. EXISTING REVETMENT MATERIALS SHALL BE USED AS REVETMENT LAYER ON TOP OF GRADE AND NEW REVETMENT PLACED ON TOP OF EXISTING REVETMENT MATERIALS

**18" CONCRETE CURB AND GUTTER WITH EROSION PROTECTION**

Signature  
Michael R. Kirk, P.E.  
SC Professional Eng. # 26229

Date

REV	NO	DATE	DRWN	CHKD	BY	DESCRIPTION
1						
2						
3						
4						
5						
6						

**CONSTRUCTION DETAILS**

TOWN OF RIDGELAND  
RIDGELAND, SOUTH CAROLINA

JAMES F. TAYLOR DRIVE  
DITCH IMPROVEMENTS - PHASE 1

DESIGN	DRAWN	SLD	JOB	ISSUE	DATE	ISSUE
MRK			17-1007.008	JANUARY	2018	BID

**FOUR WATERS ENGINEERING**

324 6th AVE N. JACKSONVILLE BEACH, FLORIDA 32250  
904-414-2400 C.O.A.# 5166 WWW.4WENG.COM

DRAWING NUMBER  
**D-1**

STEVE DUCHARME LOCATION REV17-1007.08 JAMES TAYLOR\_DRAINAGE\_X\CS17-1007\_4W\_BASEFILE-2.DWG