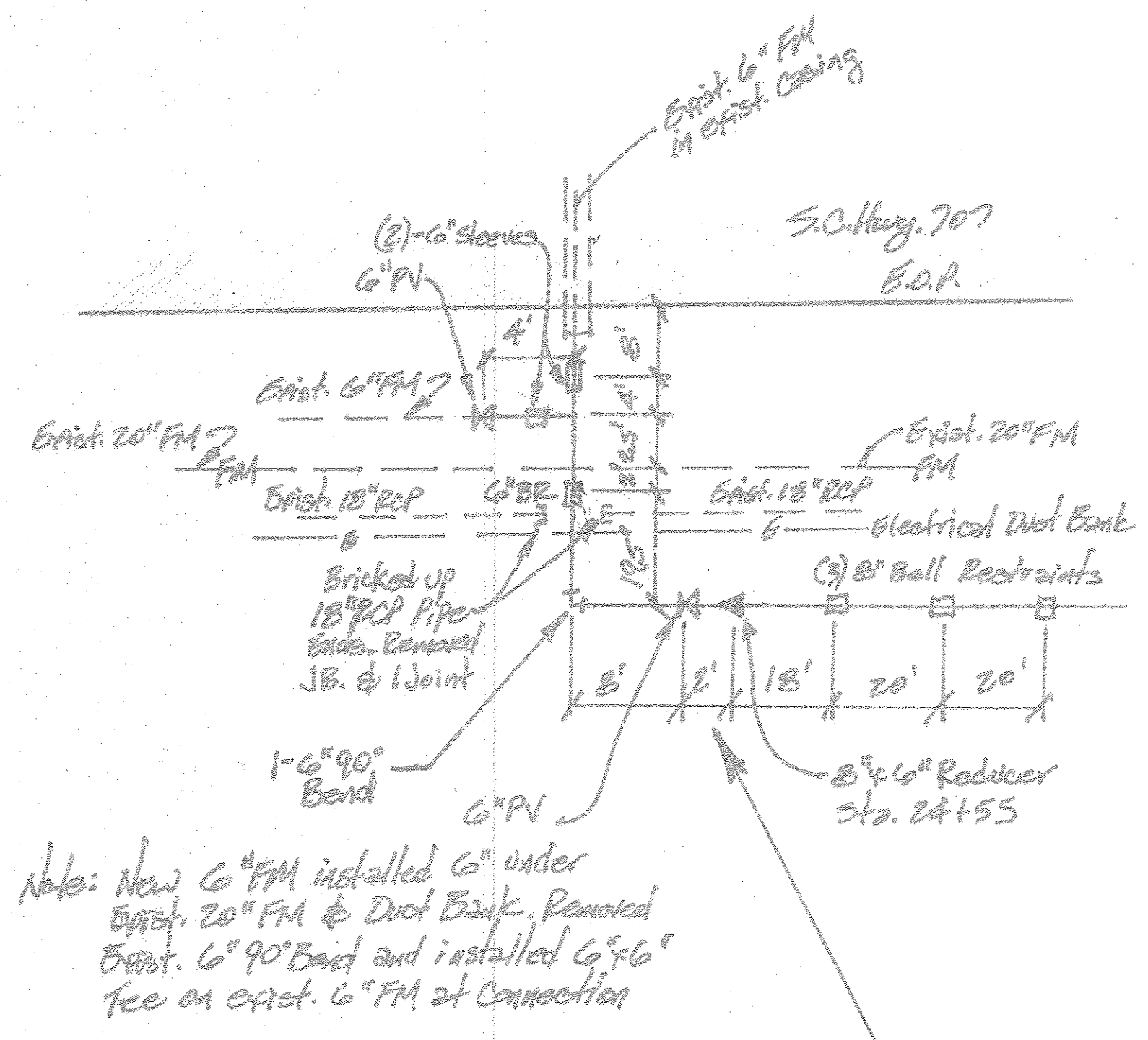
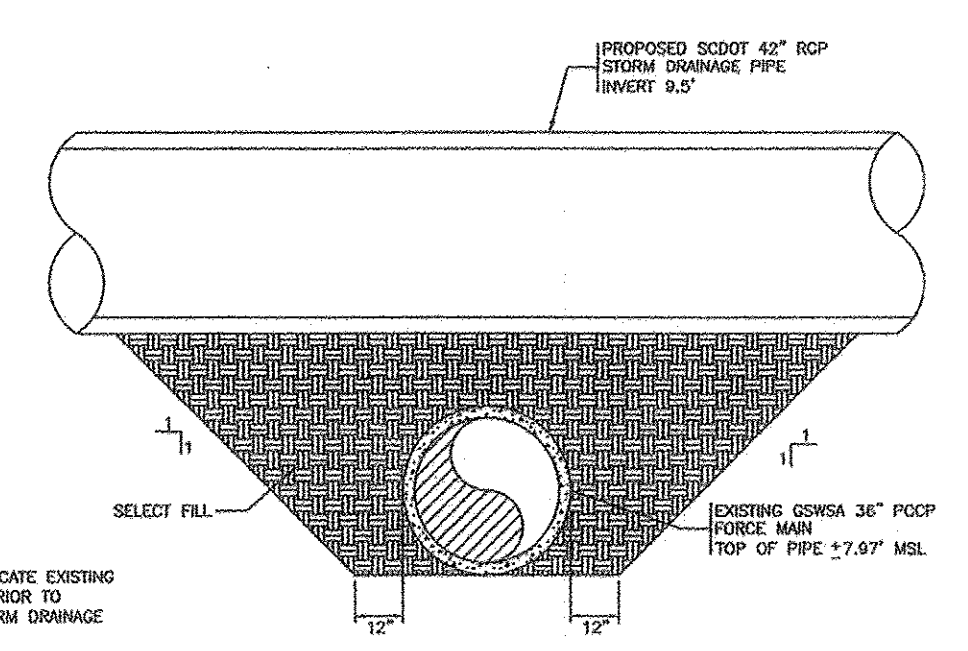




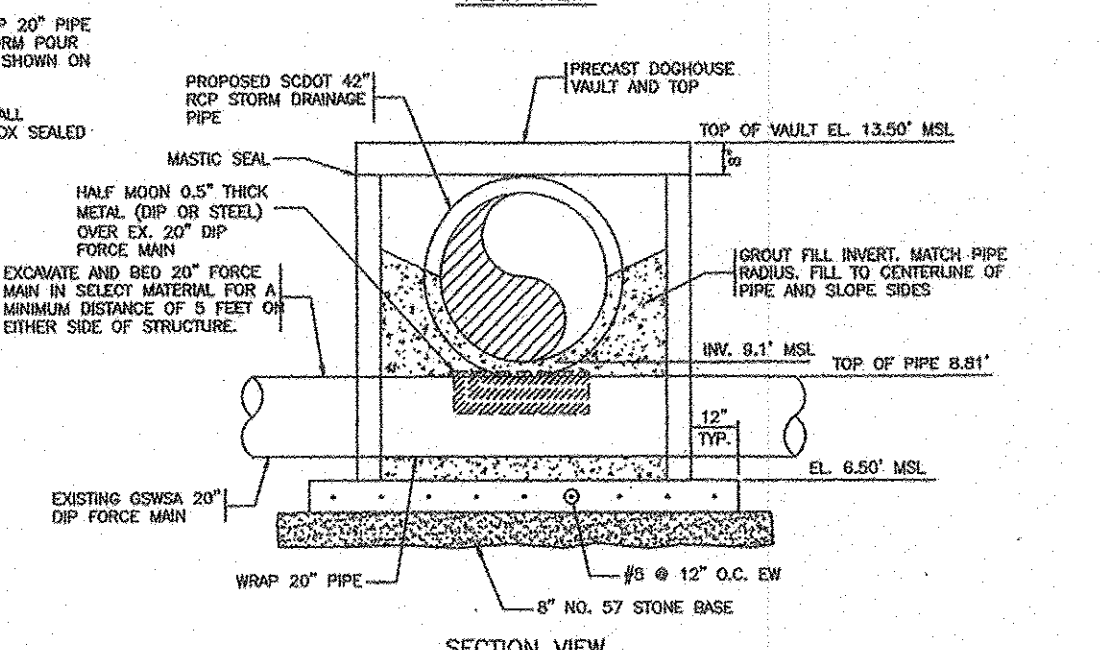
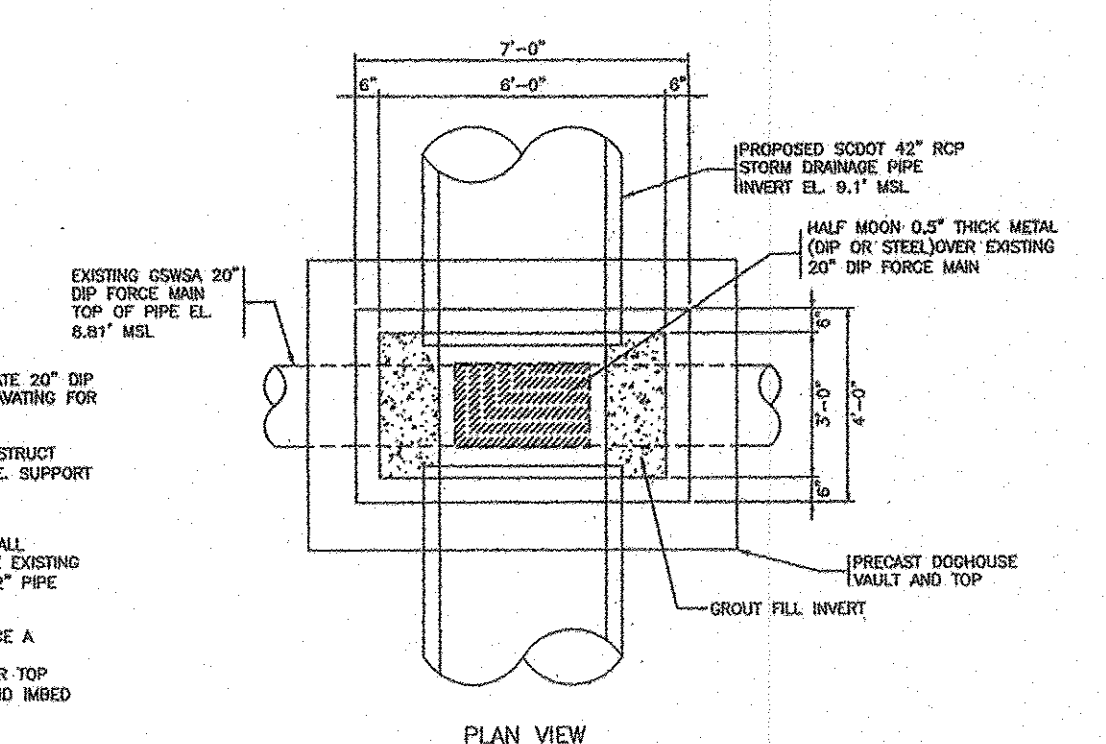
- NOTES:
1. CONTRACTOR SHALL LOCATE EXISTING 36\"/>



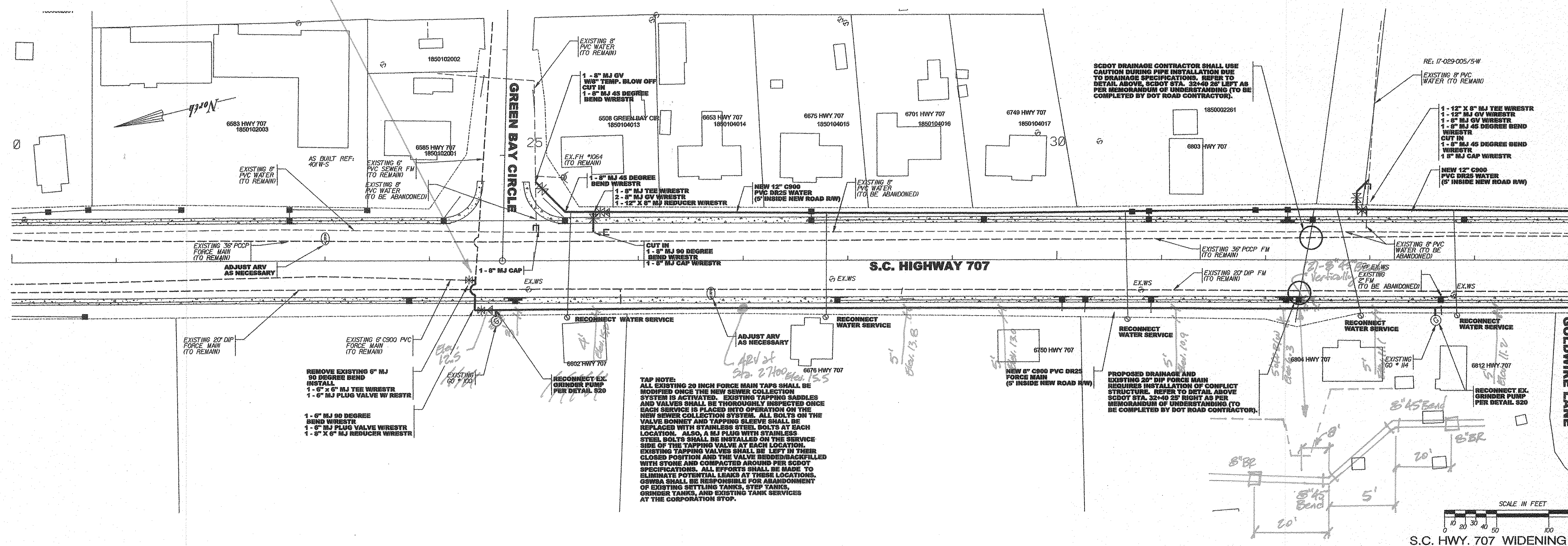
STA. 32+40.26' LEFT
GSWA UTILITY COORDINATION

NOTES:

1. CONTRACTOR SHALL LOCATE 20\"/>



STA. 32+40.25' RIGHT
GSWA UTILITY COORDINATION



TAP NOTE:
ALL EXISTING 20 INCH FORCE MAIN TAPS SHALL BE RECONNECTED ONCE THE NEW SEWER COLLECTION SYSTEM IS ACTIVATED. EXISTING TAPPING SADDLES AND VALVES SHALL BE THOROUGHLY INSPECTED ONCE EACH SERVICE IS PLACED INTO OPERATION ON THE NEW SEWER COLLECTION SYSTEM. ALL BOLTS ON THE VALVE BONNET AND TAPPING SLEEVE SHALL BE REPLACED WITH STAINLESS STEEL BOLTS AT EACH LOCATION. ALSO, A MJ PLUG WITH STAINLESS STEEL BOLTS SHALL BE INSTALLED ON THE SERVICE SIDE OF THE TAPPING VALVE AT EACH LOCATION. EXISTING TAPPING VALVES SHALL BE LEFT IN THEIR CLOSED POSITION AND THE VALVE BEDDED/BACKFILLED WITH STONE AND COMPACTED AROUND PER SCOT SPECIFICATIONS. ALL EFFORTS SHALL BE MADE TO ELIMINATE POTENTIAL LEAKS AT THESE LOCATIONS. GSWA SHALL BE RESPONSIBLE FOR ABANDONMENT OF EXISTING SETTLING TANKS, STEP TANKS, GRINDER TANKS, AND EXISTING TANK SERVICES AT THE CORPORATION STOP.

PROPOSED DRAINAGE AND EXISTING 20\"/>

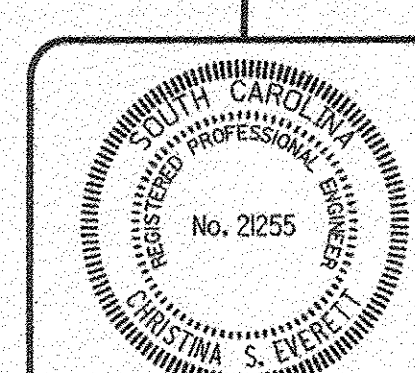
SEE SHEET # 8
FOR CONTINUATION

S.C. HWY. 707 WIDENING PROJECT

Prelim. As-Built Contract 2 (Sewer)

S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS

(FROM ENTERPRISE ROAD TO SALEM ROAD)
SCOT FILE # 26 036779A
WATER PROJECT # 7-556-01
SEWER PROJECT # 8-926-01



DATE: JULY 2019
SCALE: 1" = 50 FEET
FILENAME: WATER/SEWER RELOCATIONS

DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: Christina S. Everett
PE #21255

SHEET 7 OF 36

REVISION

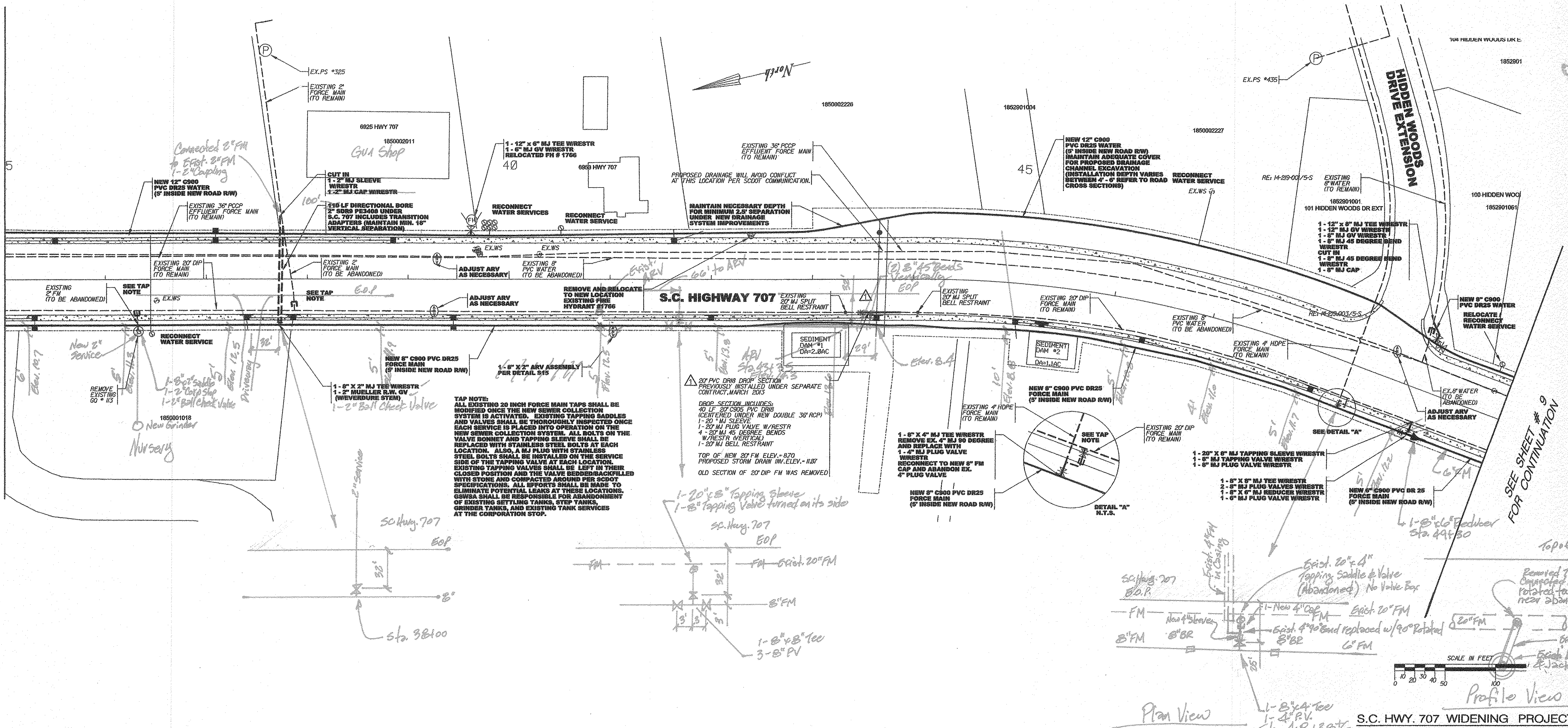
DATE

BY

9/10/18

GRAND STRAND WATER & SEWER AUTHORITY
170 JACOBSON BLUFF RD.
P.O. BOX 2889
CONWAY, SC 29524
(843) 347-4441 OR 445-1888
FAX (843) 347-4441 OR 445-1888
E-MAIL: GSWA@GSA.COM

SEE SHEET # 7
FOR CONTINUATION



REVISION	DATE	BY
PENDING SEPARATE CONTRACT COMPLETION	OCT. 2012	
FORCE MAIN SECTION LOWERED	MAR. 2013	

9/12/14

GRAND STRAND WATER & SEWER AUTHORITY

170 JACKSON BLUFF RD.
OCONOMOWOC, WI 53066-2988
(848) 947-4541 OR 446-6885
(848) 947-4541 FAX
FAX: (848) 947-4541

S.C. HIGHWAY 707 WIDENING PROJECT
(FROM ENTERPRISE ROAD TO SALEM ROAD)

SDOT FILE # 26.036779A
WATER PROJECT # 7-556-01
SEWER PROJECT # 8-926-01

SEE SHEET # 9
FOR CONTINUATION

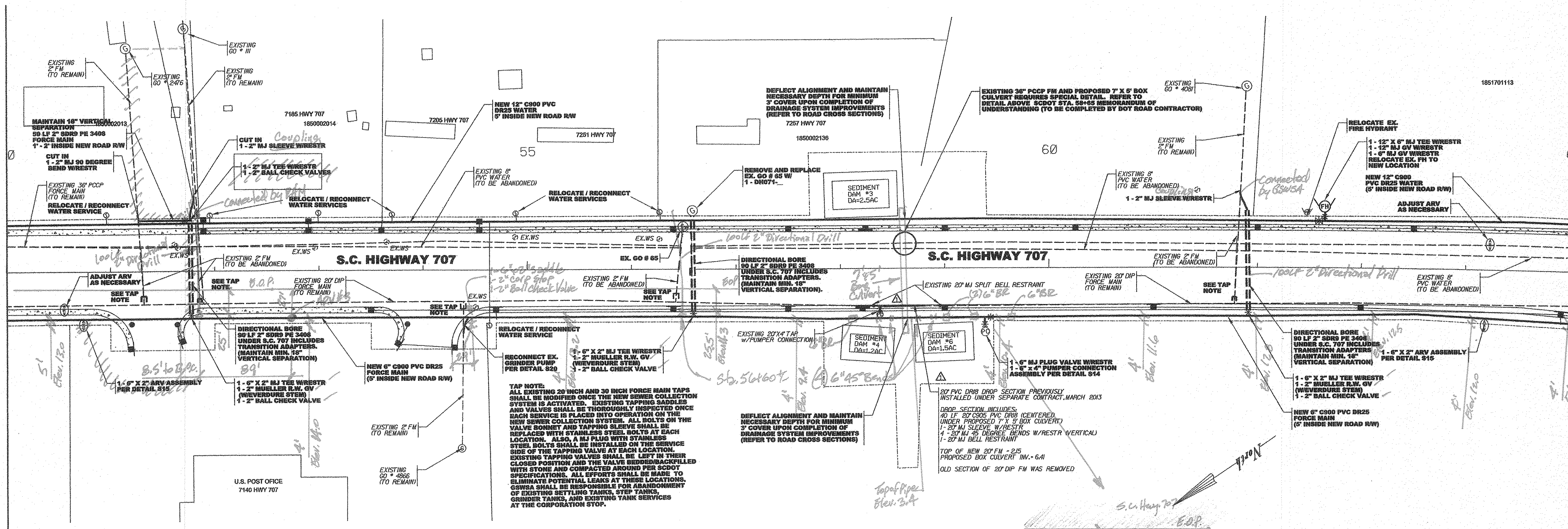
PLAN VIEW

Profile View

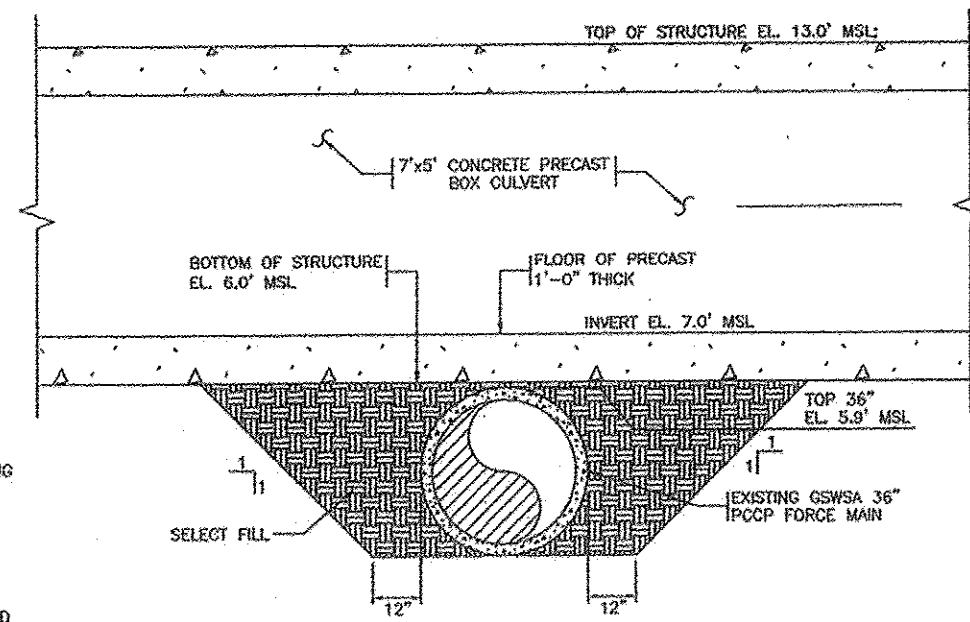
S.C. HWY. 707 WIDENING PROJECT

SHEET 8 OF 36

SEE SHEET # 8
FOR CONTINUATION



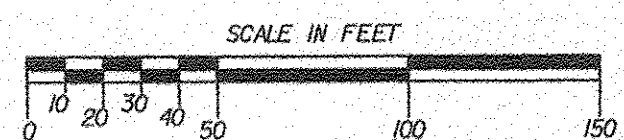
NOTES:
1. CONTRACTOR SHALL LOCATE EXISTING 36\"/>



STA. 58+65 26' LEFT
GWSA UTILITY COORDINATION

(DETAIL FOR INFORMATION ONLY. THIS
ITEM WILL BE COMPLETED BY DOT
ROAD CONTRACTOR PER MEMORANDUM
OF UNDERSTANDING.)

SEE SHEET # 10
FOR CONTINUATION



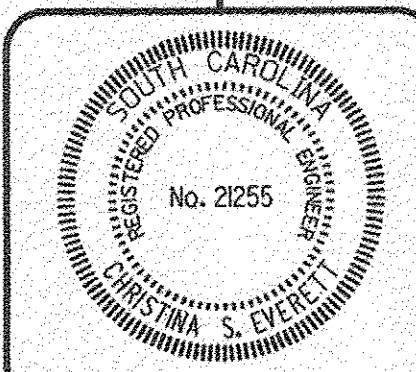
REVISION	DATE	BY	APP'D
1	OCT. 2002		
2	MAR. 2003		

GRAND STRAND
WATER & SEWER
AUTHORITY

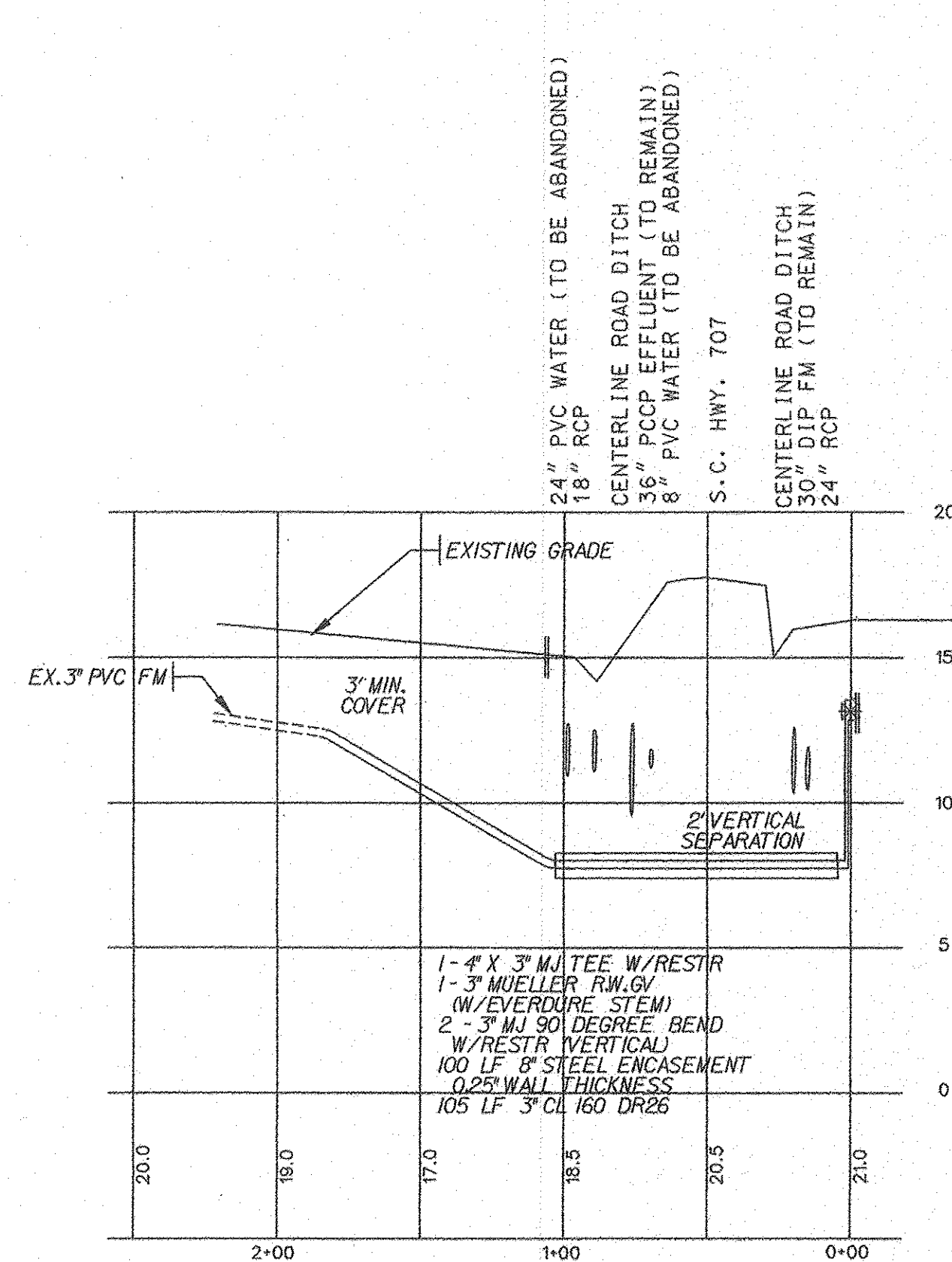
170 JACKSON BLUFF RD.
P.O. BOX 2886-2968
CONWAY, SC 29524-2968
(803) 947-4841 OR 448-1888
FAX (803) 947-4880 (FAX)
E-MAIL GSWA@GSCS-CON

S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS
(FROM ENTERPRISE ROAD TO SALEM ROAD)

SCDOT FILE # 28-03677A
WATER PROJECT # 7-558-01
SEWER PROJECT # 8-928-01

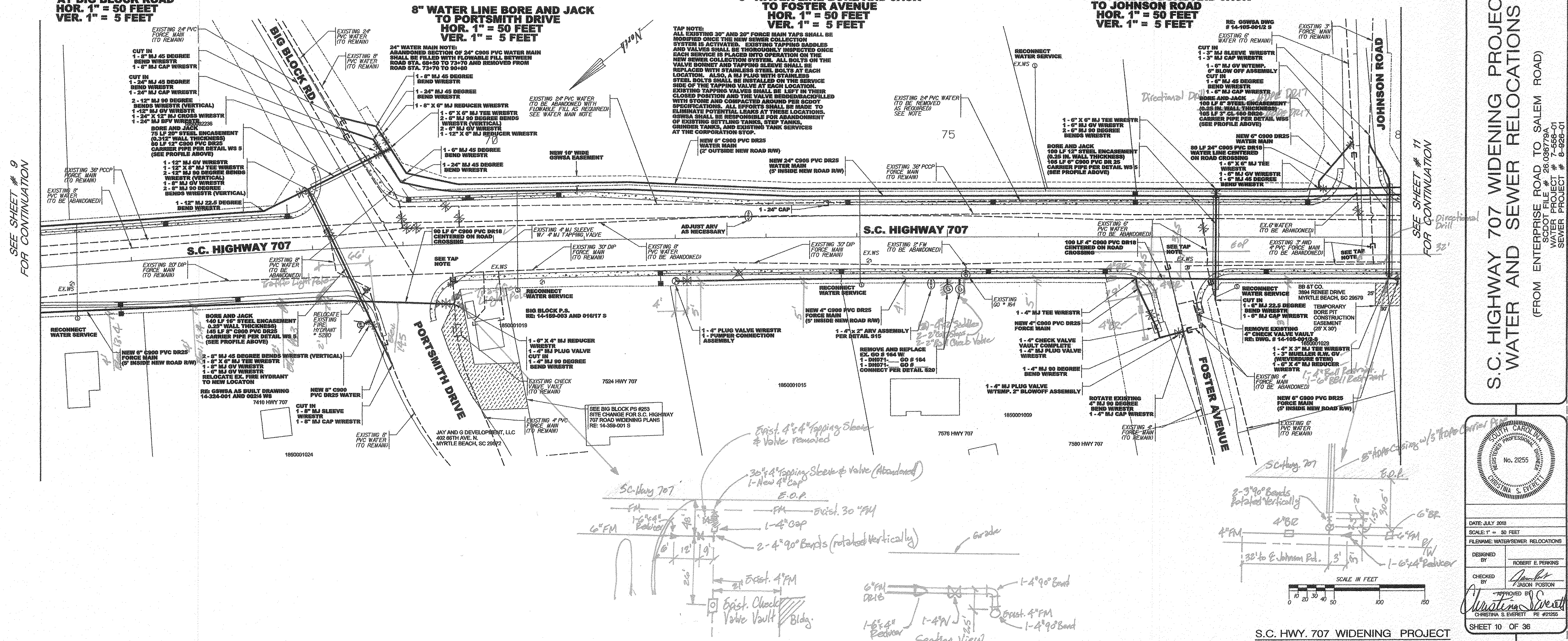


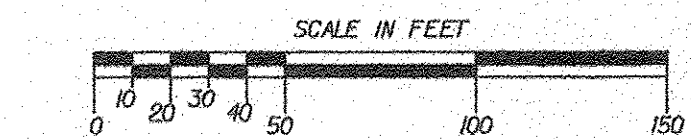
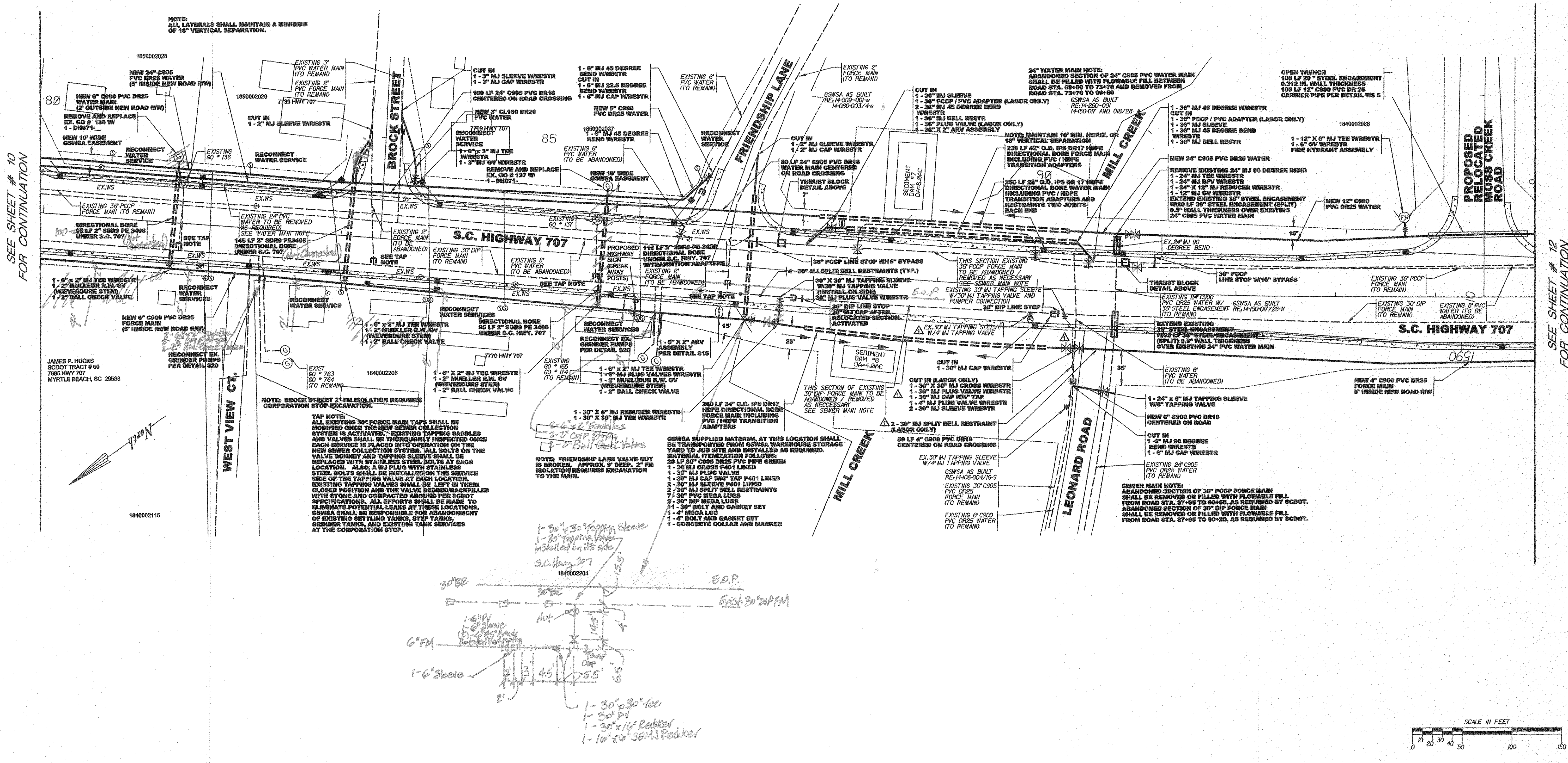
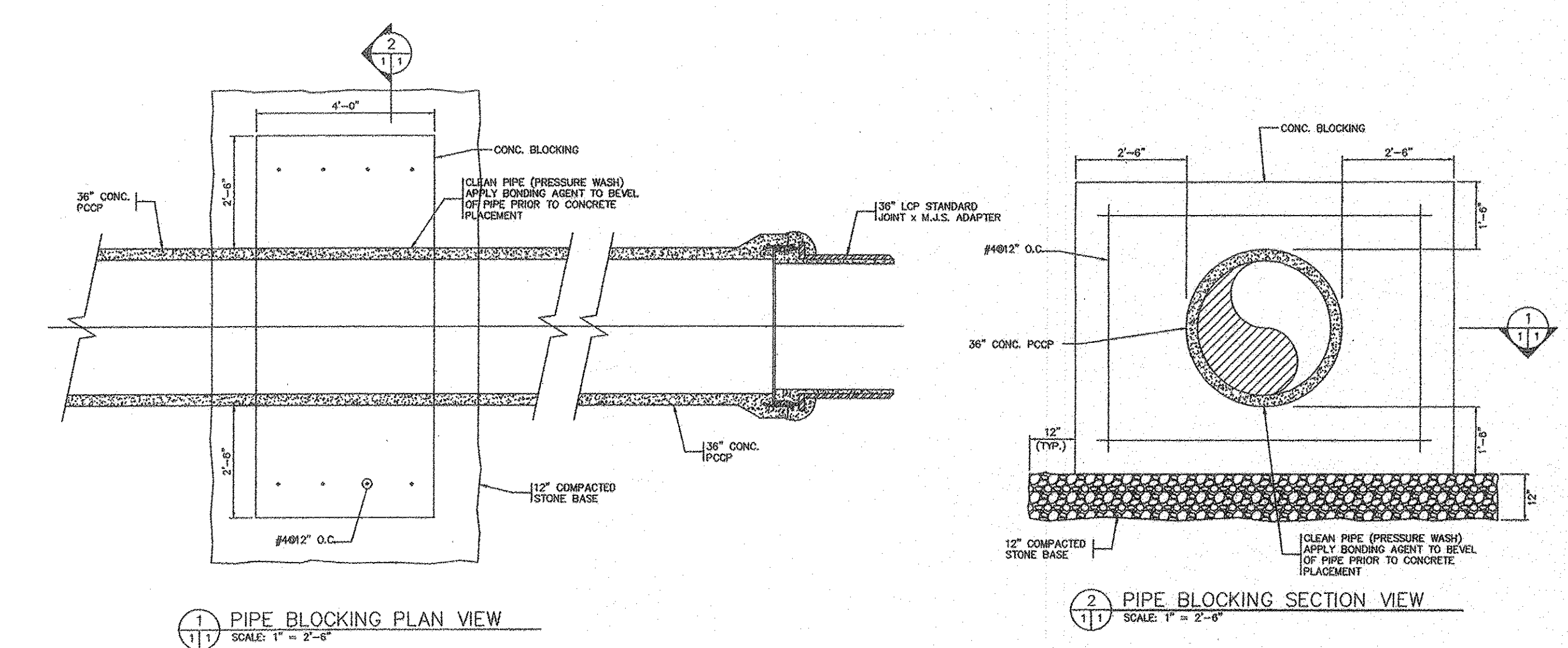
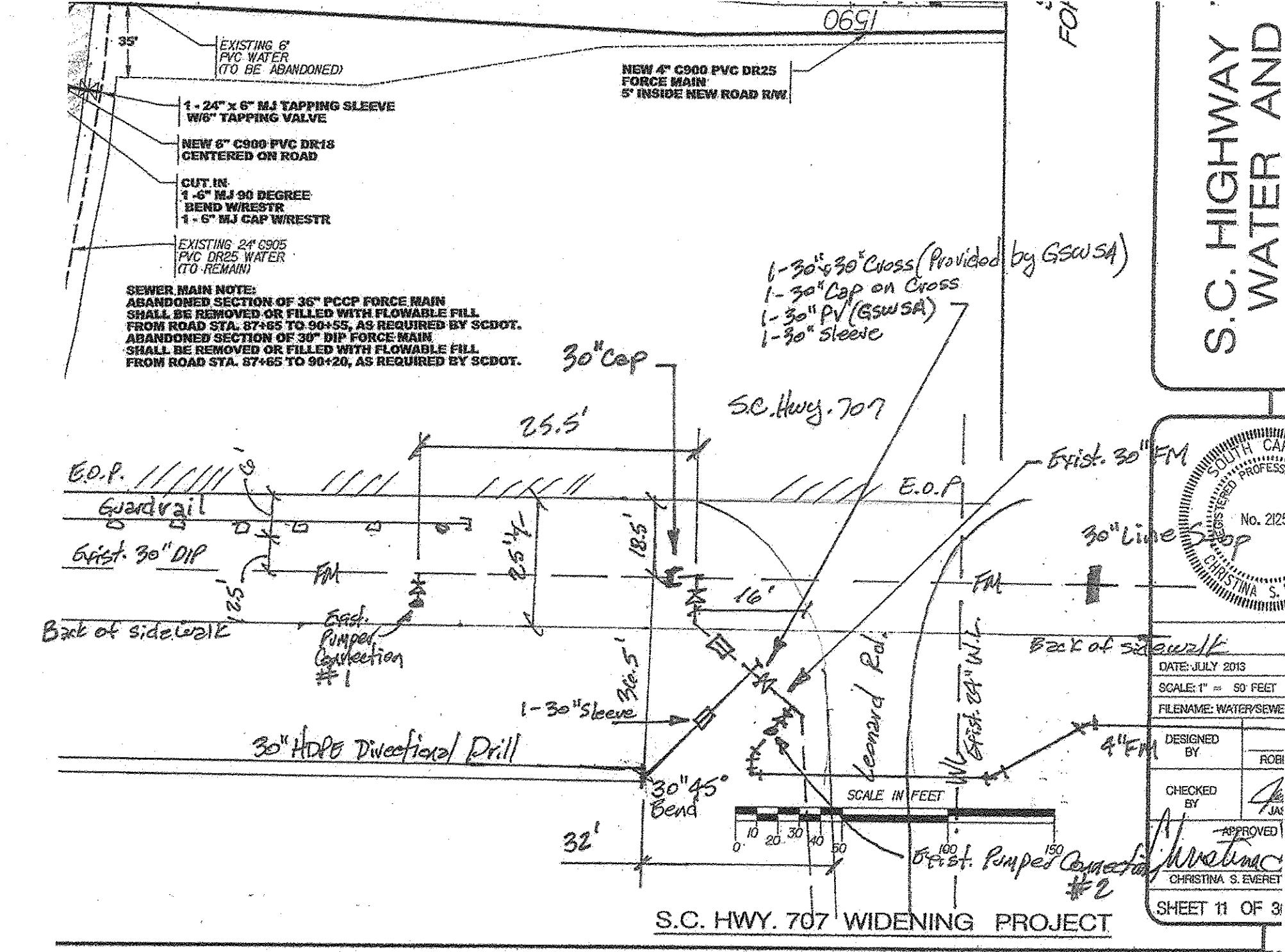
DATE: JULY 2003	SCALE: 1" = 50 FEET
FILENAME: WATER/SEWER RELOCATIONS	
DESIGNED BY: ROBERT E. PERKINS	CHECKED BY: JASON POSTON
APPROVED BY: CHRISTINA S. EVERETT, PE #21255	
SHEET 9 OF 36	



**6" WATER LINE BORE AND JACK
TO FOSTER AVENUE
HOR. 1" = 50 FEET
VER. 1" = 5 FEET**

**3" FORCE MAIN BORE AND JACK
TO JOHNSON ROAD
HOR. 1" = 50 FEET
VER. 1" = 5 FEET**





DATE: JULY 2018
SCALE: 1" = 50 FEET
FILENAME: WATERSEWER RELOCATIONS

DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: CHRISTINA S. EVERETT

SHEET 11 OF 36

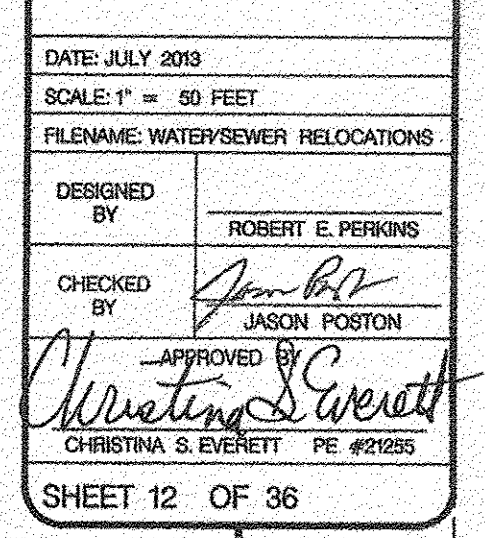
170 JACKSON BLVD. #100
CONWAY, SC 29526-2898
(843) 333-4441
E-MAIL: GSWSA@GMAIL.COM

DATE: JULY 2018
SCALE: 1" = 50 FEET
FILENAME: WATERSEWER RELOCATIONS

DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: CHRISTINA S. EVERETT

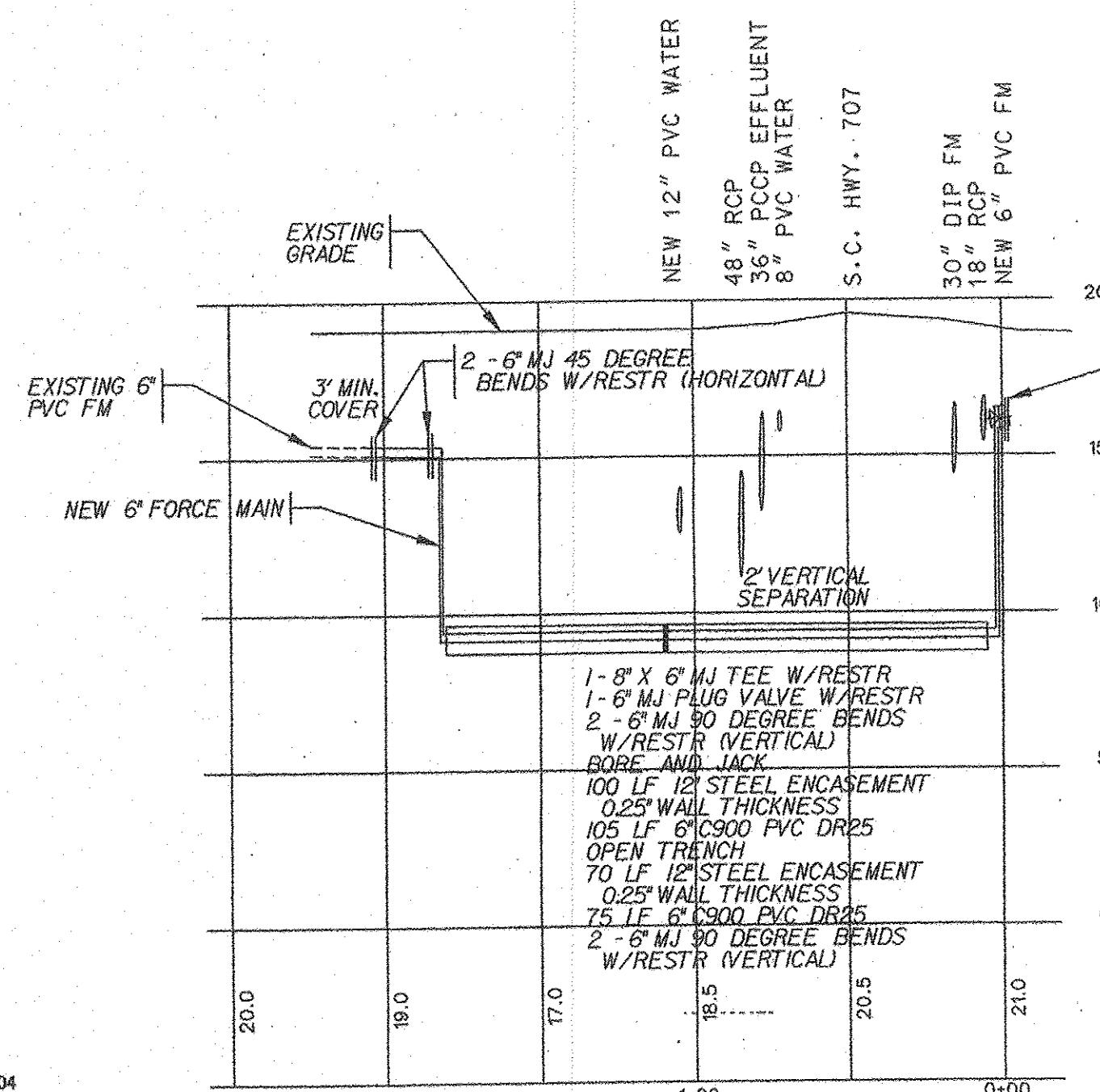
SHEET 11 OF 36

170 JACKSON BLVD. #100
CONWAY, SC 29526-2898
(843) 333-4441
E-MAIL: GSWSA@GMAIL.COM

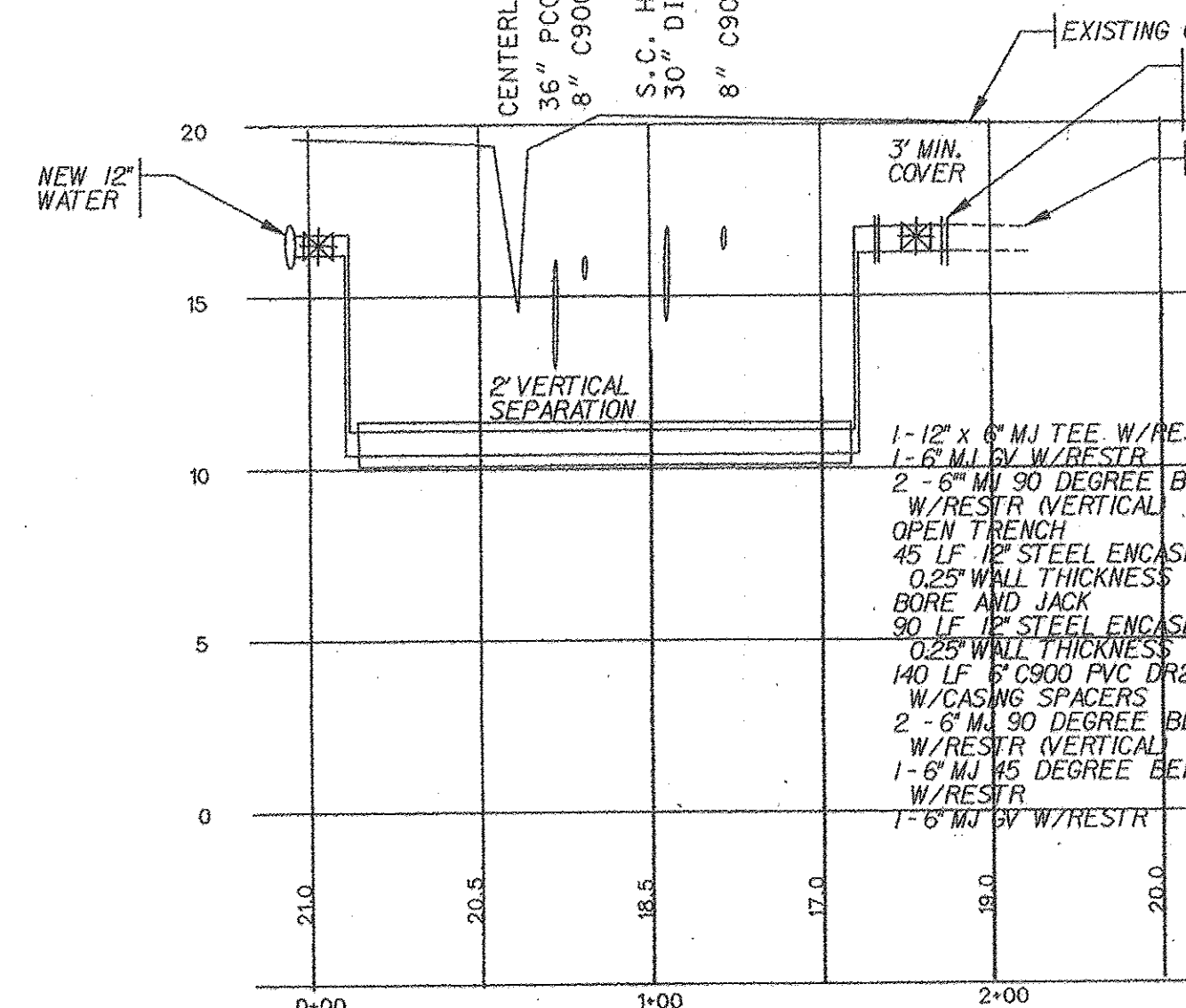


S.C. HWY. 707 WIDENING PROJECT

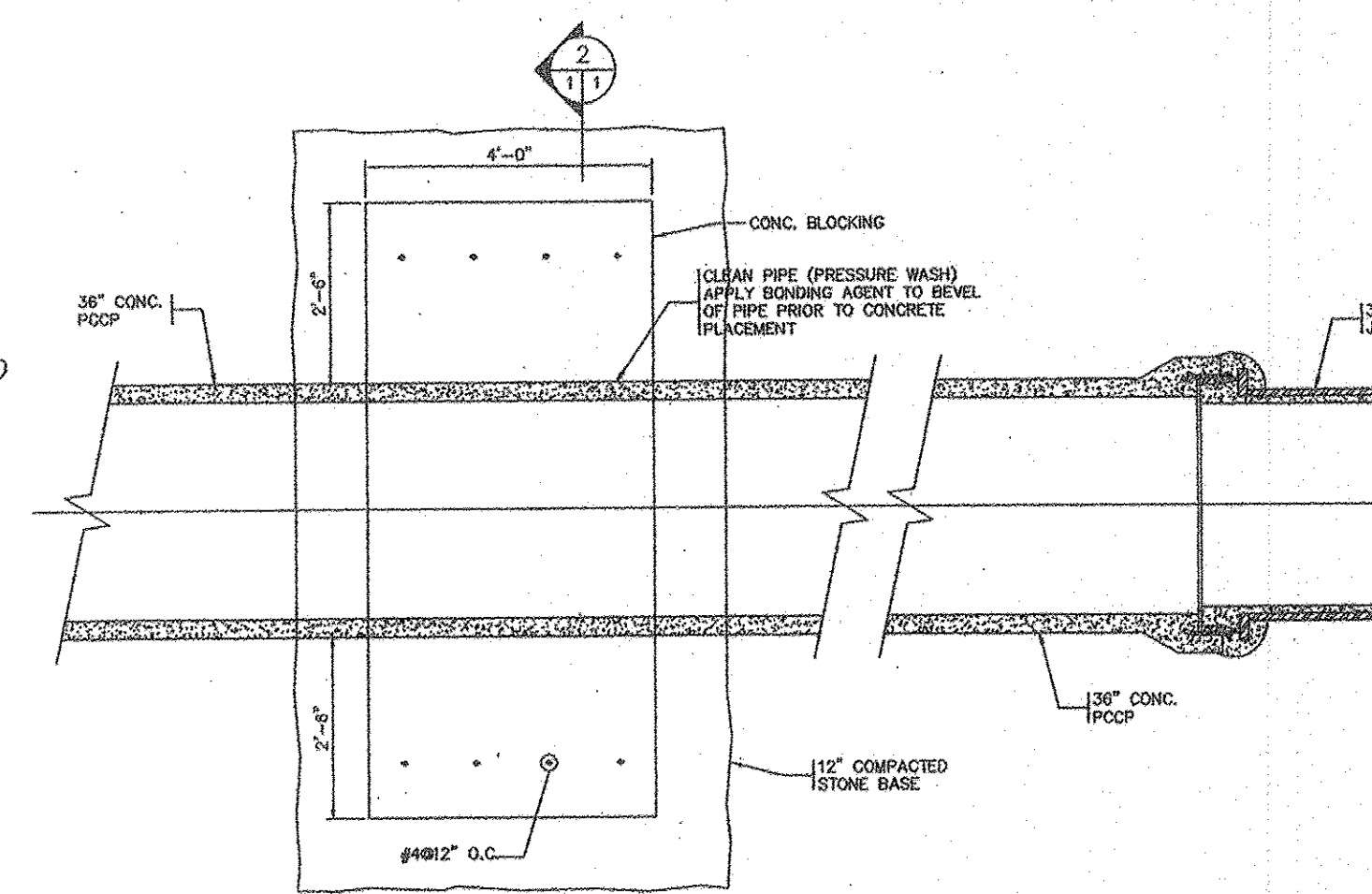
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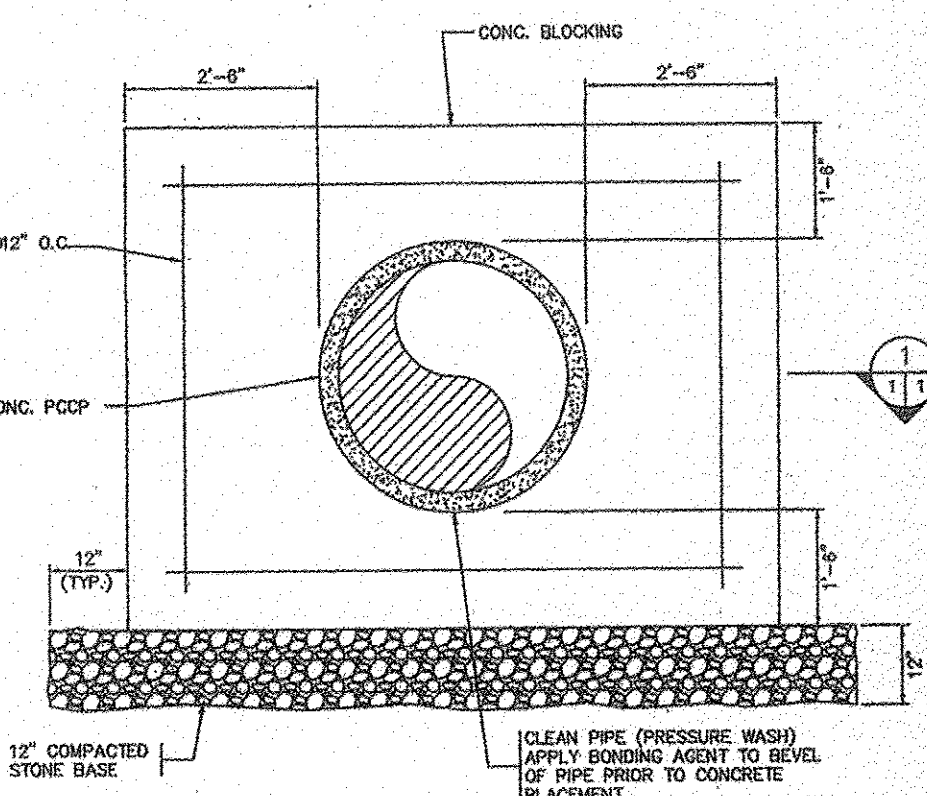
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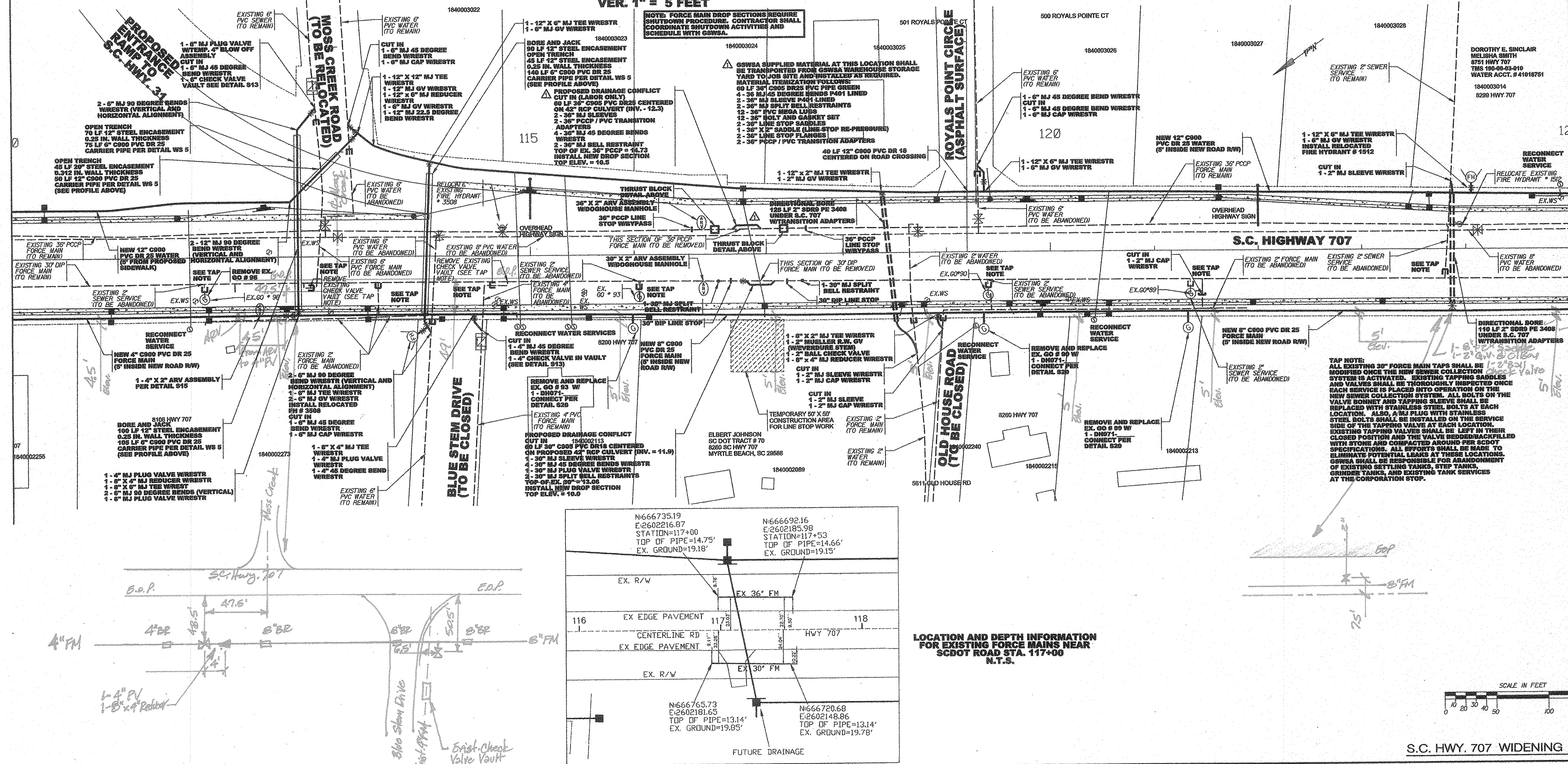
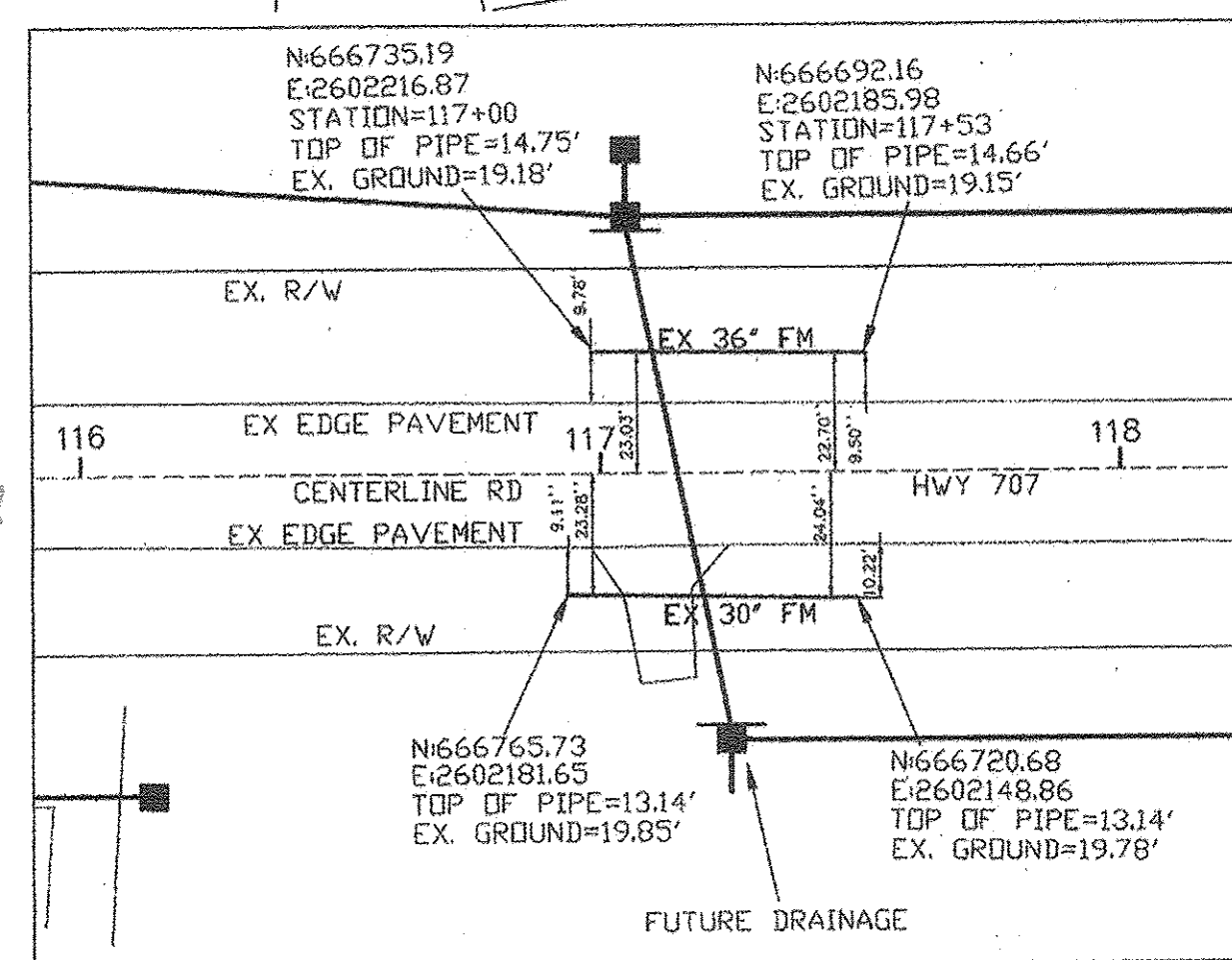
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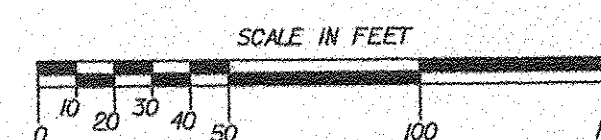
PIPE BLOCKING PLAN VIEW
SCALE: 1" = 2'-0"



PIPE BLOCKING SECTION VIEW
SCALE: 1" = 2'-0"

SEE SHEET # 12
FOR CONTINUATIONSEE SHEET # 14
FOR CONTINUATION

**LOCATION AND DEPTH INFORMATION
FOR EXISTING FORCE MAINS NEAR
SCDOT STA. 117+00
N.T.S.**



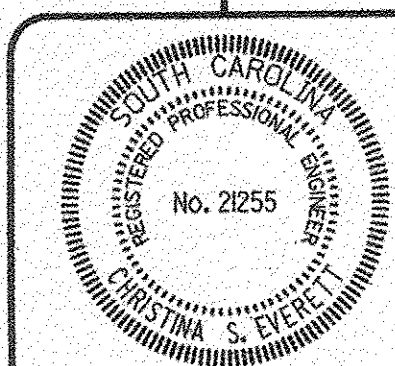
S.C. HWY. 707 WIDENING PROJECT

**GRAND STRAND
WATER & SEWER
AUTHORITY**

170 JACOBSON BLUFF RD.
P.O. BOX 2888
CONWAY, SC 29524
(843) 947-4641 OR 448-1686
FAX (843) 947-4685 (FAX)
E-MAIL: GSWA@GSA-SC.COM

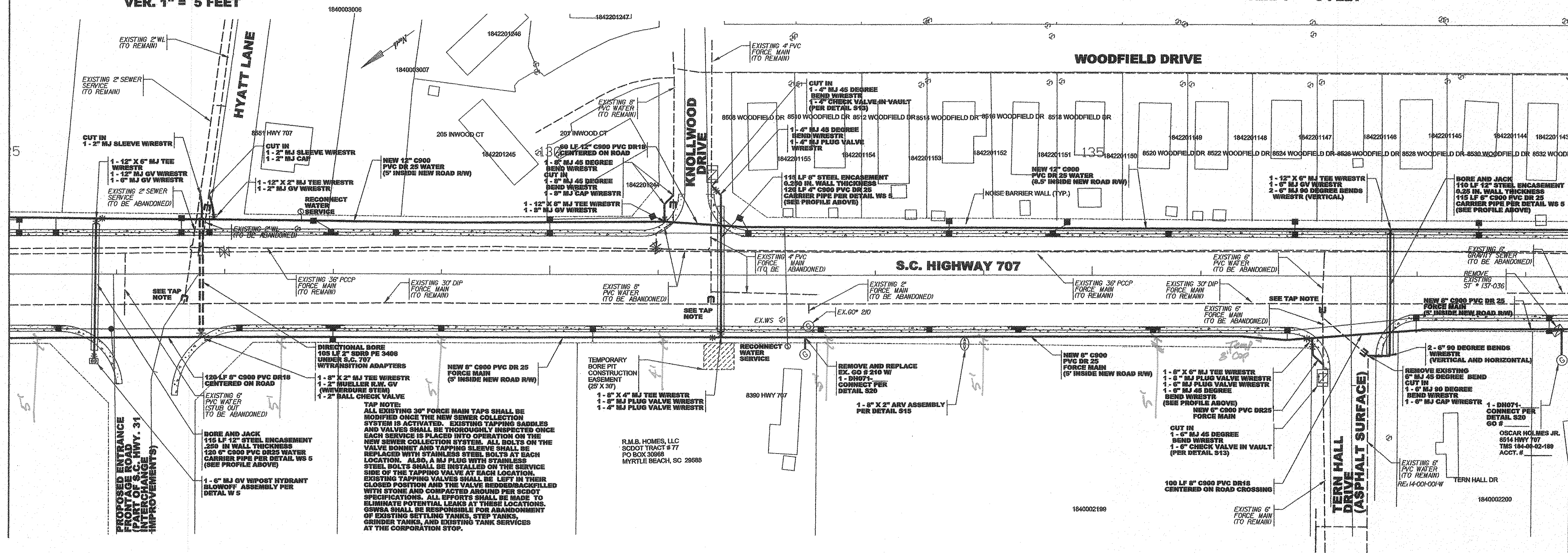
**S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS**
(FROM ENTERPRISE ROAD TO SALEM ROAD)

SCDOT FILE # 28-036789A
SALEM PROJECT # 8-926-01
SEWER PROJECT # 8-926-01



DATE: JULY 2013
SCALE: 1" = 50 FEET
FILENAME: WATERSEWER RELOCATIONS
DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: CHRISTINA S. EVERETT
SHEET 13 OF 36

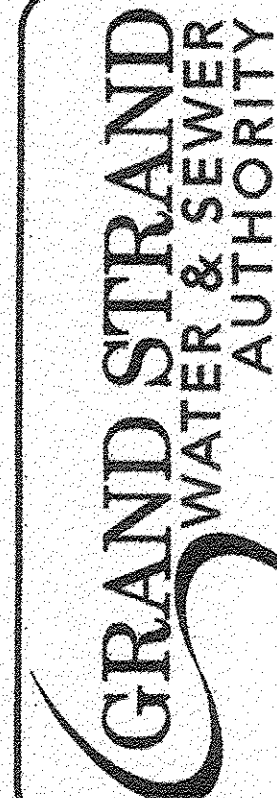
SEE SHEET # 13
FOR CONTINUATION



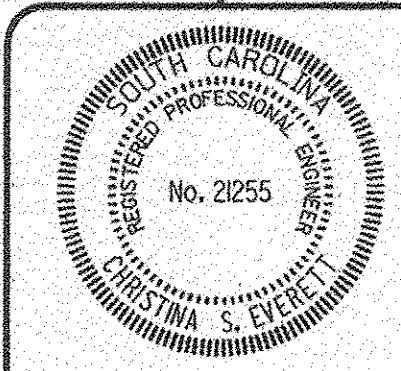
SEE SHEET # 15
FOR CONTINUATION



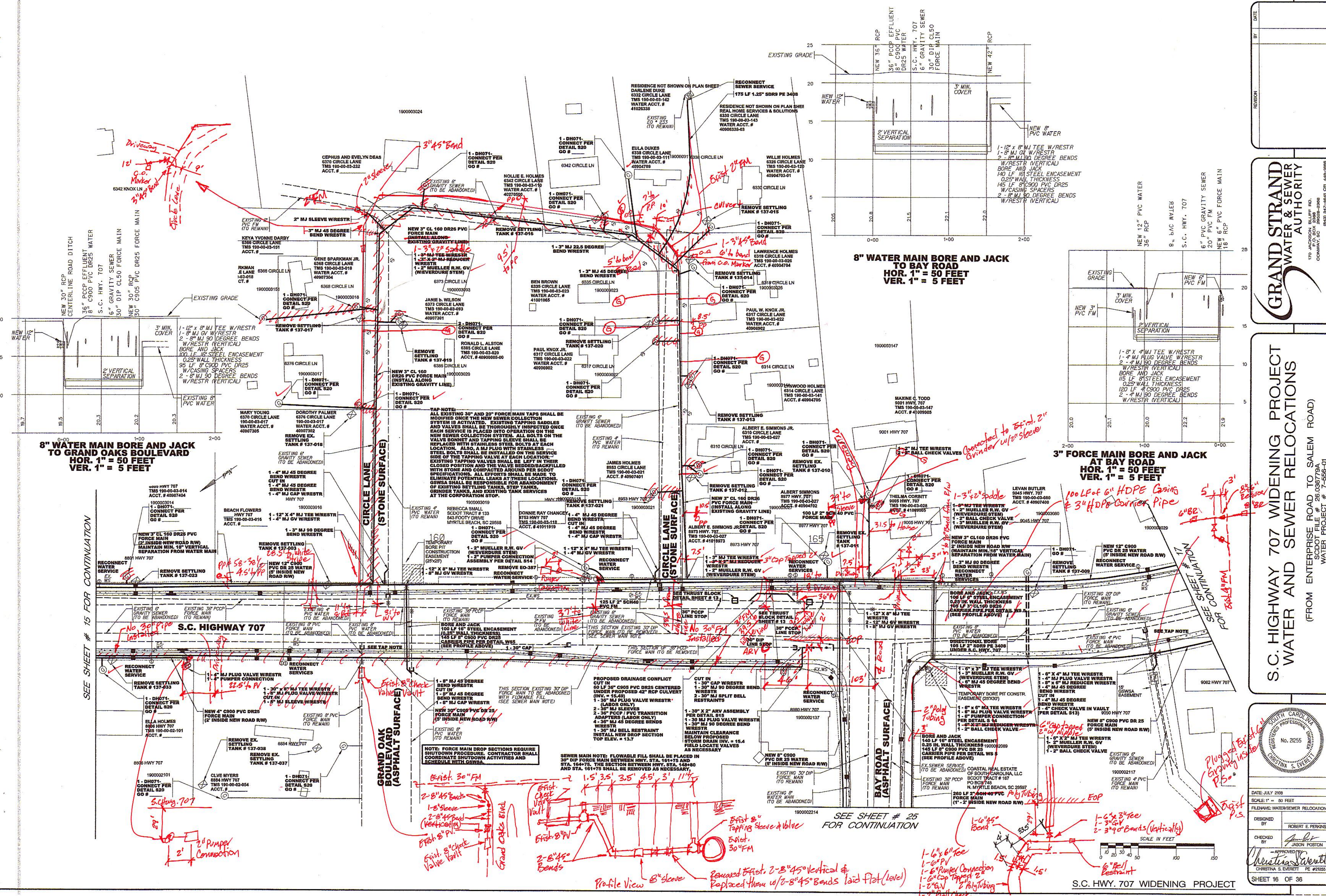
S.C. HWY. 707 WIDENING PROJECT

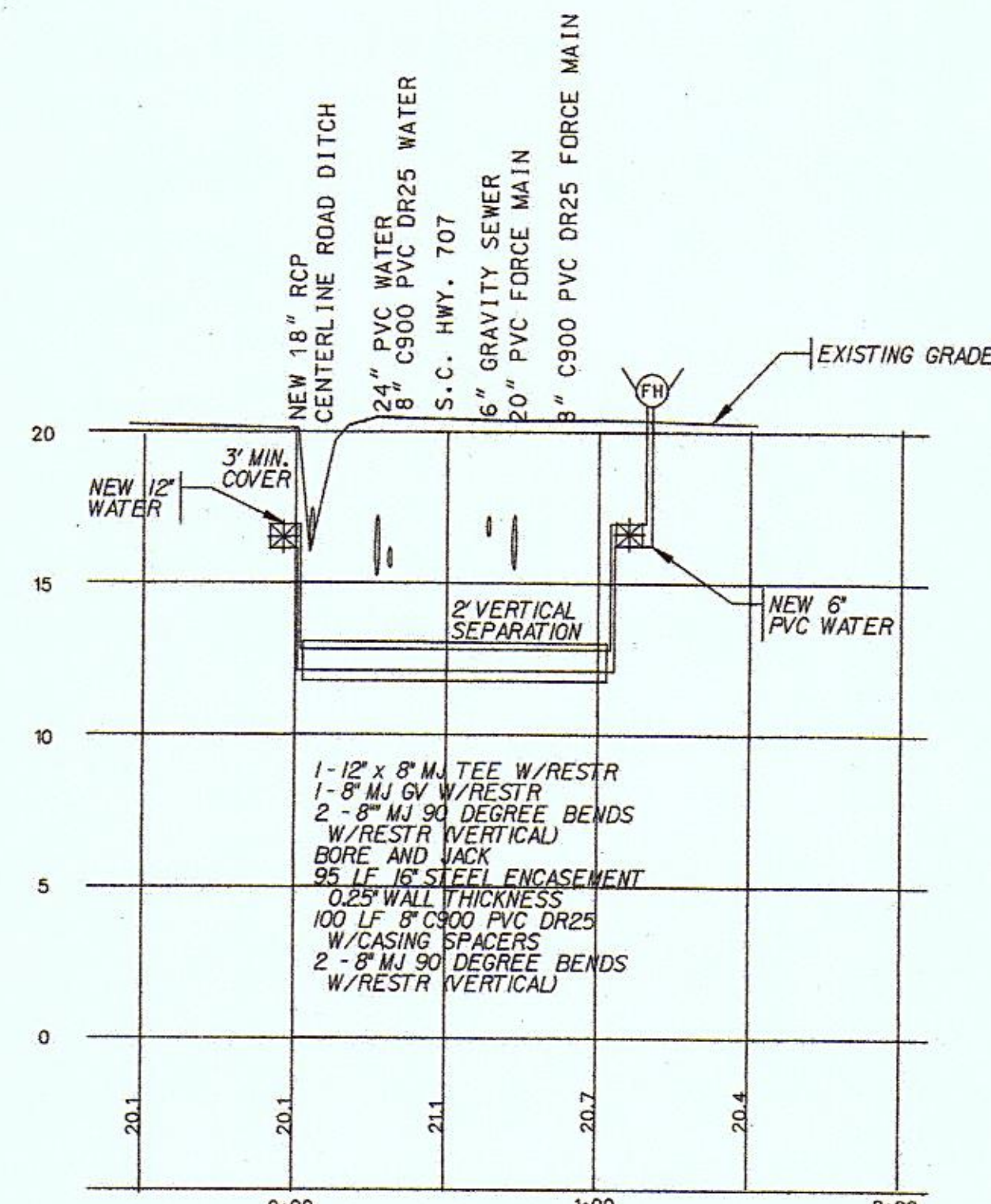


S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS
(FROM ENTERPRISE ROAD TO SALEM ROAD)

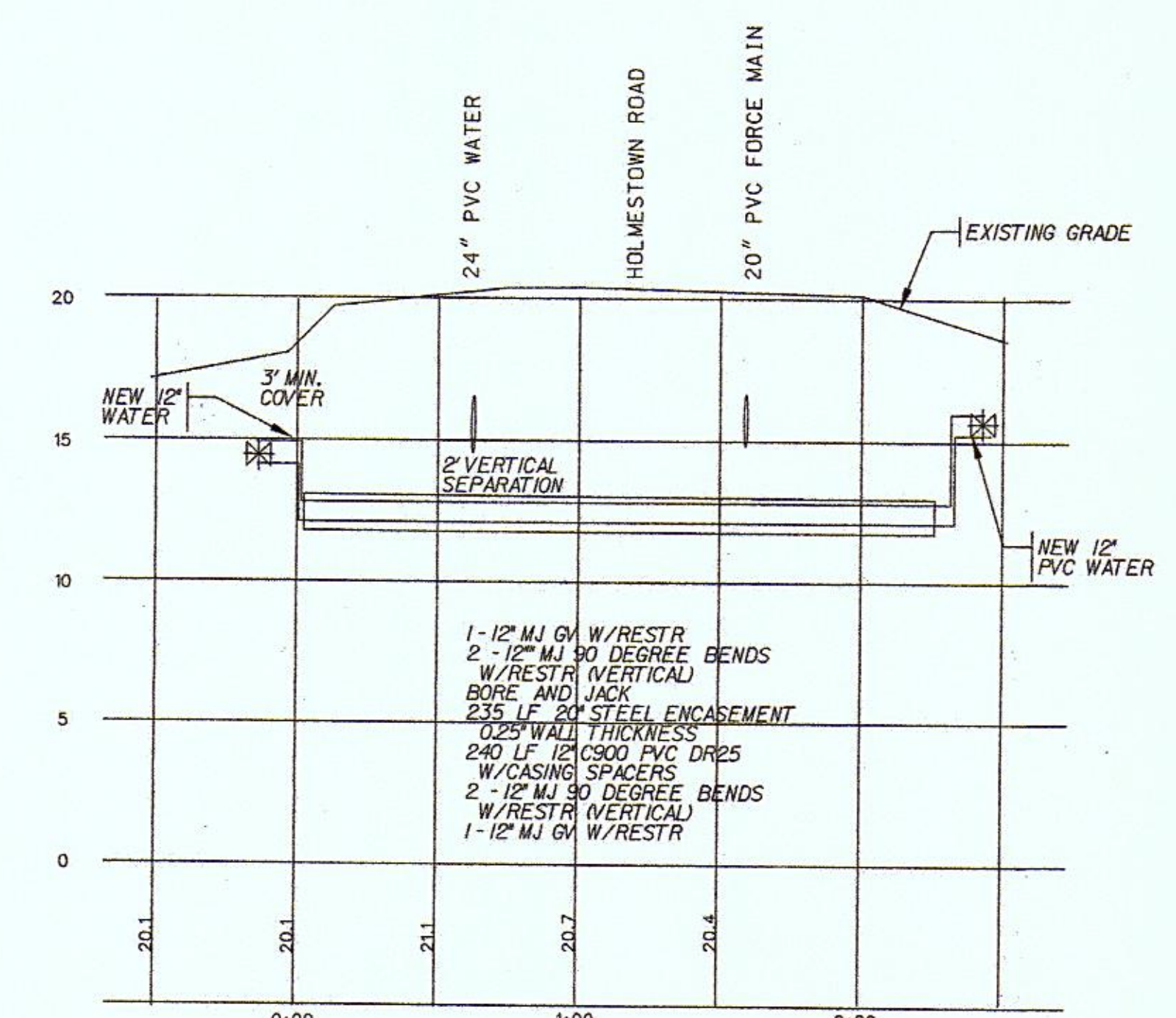


DATE: JULY 2013
SCALE: 1" = 50 FEET
FILENAME: WATER/SEWER RELOCATIONS
DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: Christina S. Everett
CHRISTINA S. EVERETT PE #21255





8" WATER MAIN BORE AND JACK TO BRIGHTON AVENUE
HOR. 1" = 50 FEET
VER. 1" = 5 FEET



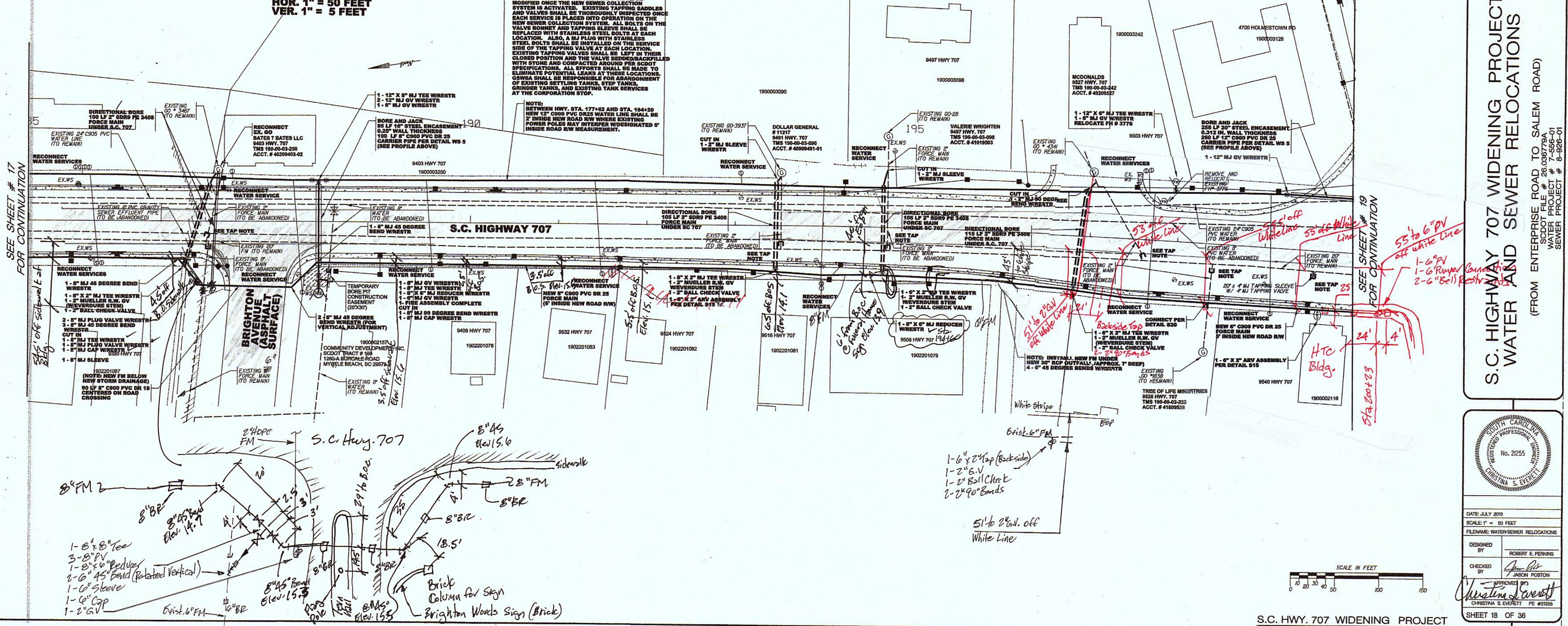
12" WATER MAIN BORE AND JACK AT HOLMESTOWN ROAD
HOR. 1" = 50 FEET
VER. 1" = 5 FEET

TAP NOTE:
ALL EXISTING 20" FORCE MAIN TAPS SHALL BE MODIFIED ONCE THE NEW SEWER COLLECTION SYSTEM IS ACTIVATED. EXISTING TAPPING SADDLES AND VALVES SHALL BE THOROUGHLY INSPECTED ONCE EACH SERVICE IS PLACED INTO OPERATION ON THE NEW SEWER COLLECTION SYSTEM. ALL BOLTS ON THE VALVE BONNET AND TAPPING SLEEVE SHALL BE REPLACED WITH STAINLESS STEEL BOLTS AT EACH LOCATION. ALSO, A MJ PLUG WITH STAINLESS STEEL BOLTS SHALL BE INSTALLED ON THE SERVICE SIDE OF THE TAPPING VALVE AT EACH LOCATION. EXISTING TAPPING VALVES SHALL BE LEFT IN THEIR CLOSED POSITION AND THE VALVE BEDDED BACKFILLED WITH STONE AND COMPACTED AROUND PER SCDOT SPECIFICATIONS. ALL EFFORTS SHALL BE MADE TO ELIMINATE POTENTIAL LEAKS AT THESE LOCATIONS. GSWA SHALL BE RESPONSIBLE FOR ABANDONMENT OF EXISTING SETTLING TANKS, STEP TANKS, GRINDER TANKS, AND EXISTING TANK SERVICES AT THE CORPORATION STOP.

NOTE:
BETWEEN HWY. STA. 177+62 AND STA. 184+20 NEW 12" C900 PVC DR25 WATER LINE SHALL BE 2' INSIDE NEW ROAD R/W WHERE EXISTING POWER POLES MAY INTERFERE DESIGNATED 6' INSIDE ROAD R/W MEASUREMENT.

SEE SHEET # 17 FOR CONTINUATION

SEE SHEET # 19 FOR CONTINUATION



REASON

BY

DATE

GRAND STRAND WATER & SEWER AUTHORITY

170 JACKSON BLUFF RD.
CONWAY, SC 29524-2348
(843) 947-4641 CR 445-1686
FAX 843-947-4641
E-MAIL: GSWA@GSA.COM

S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS
(FROM ENTERPRISE ROAD TO SALEM ROAD)

FILE # 26-08779A
WATER PROJECT # 7-558-01
SEWER PROJECT # 8-926-01

REGISTERED PROFESSIONAL ENGINEER

NO. 21255

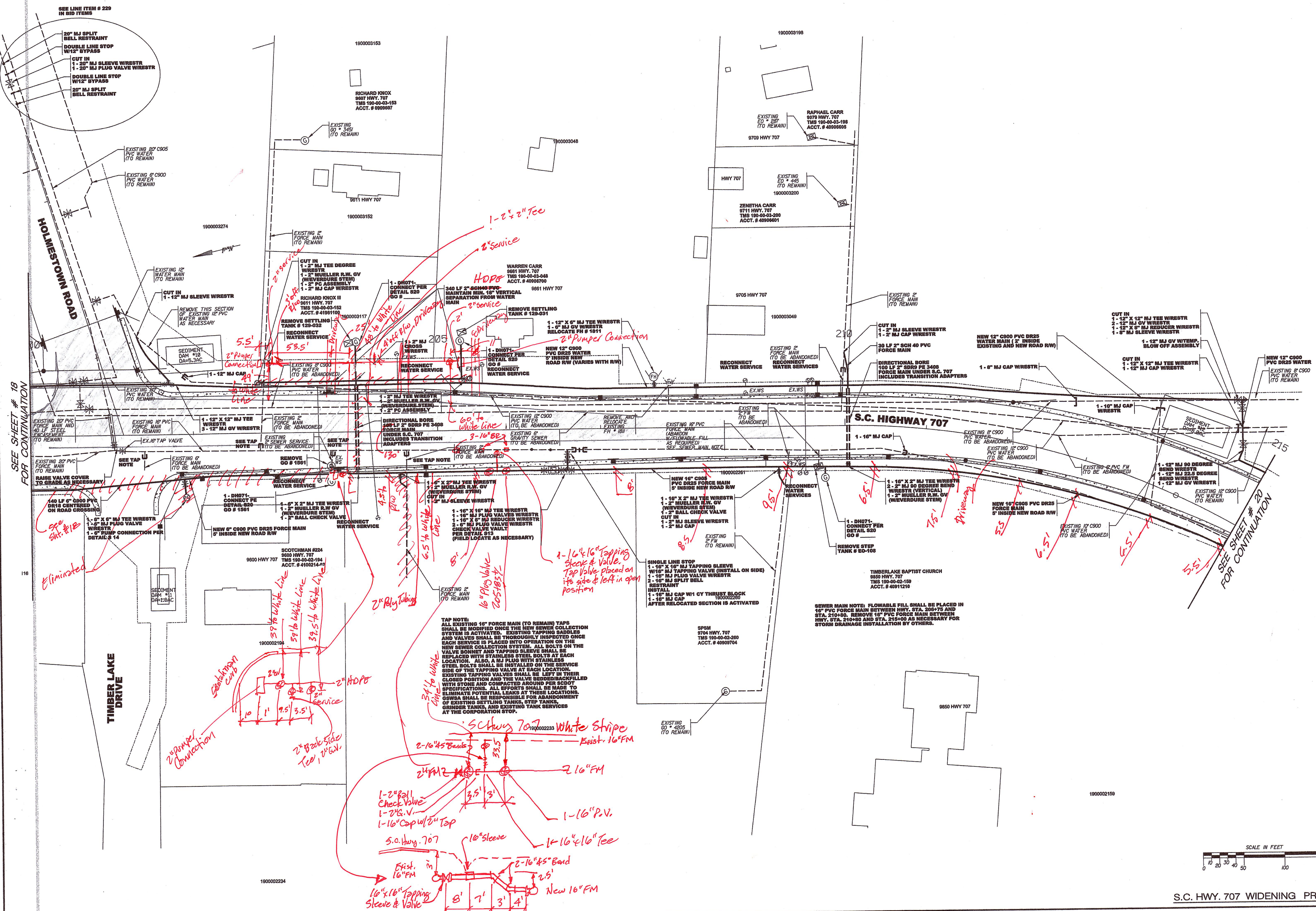
CHRISTINA S. EVERETT

DATE: JULY 2019
SCALE: 1" = 50 FEET
FILENAME: WATERSEWER RELOCATIONS

DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: CHRISTINA S. EVERETT

SHEET 18 OF 36

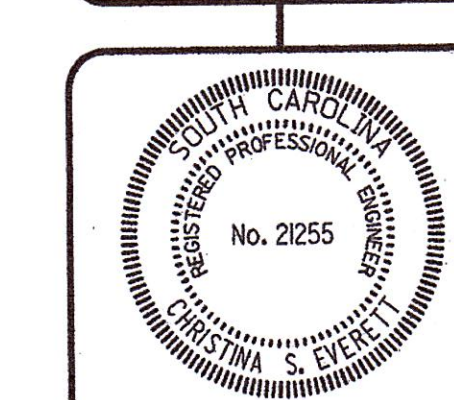
S.C. HWY. 707 WIDENING PROJECT

[illegible]

**GRAND STRAND
WATER & SEWER
AUTHORITY**

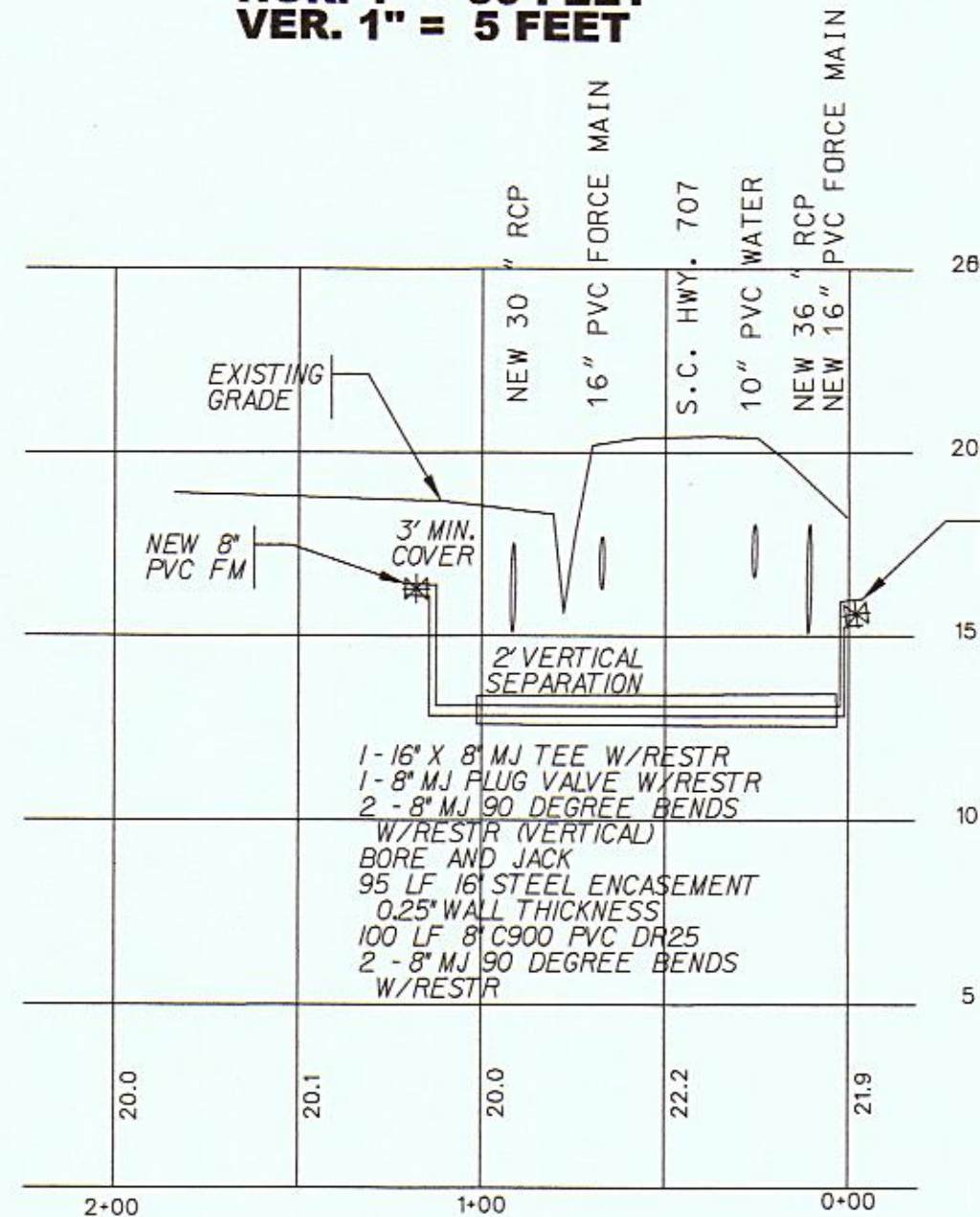
170 JACKSON BLUFF RD.
P.O. BOX 2936
CONNETT, SC 29568
(843) 347-4741 OR 448-1688
FAX (843) 347-4742
WWW.GSWA.COM

S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS
(FROM ENTERPRISE ROAD TO SALEM ROAD)
SCDOT FILE # 26 036779A
WATER PROJECT # 7-6568-01

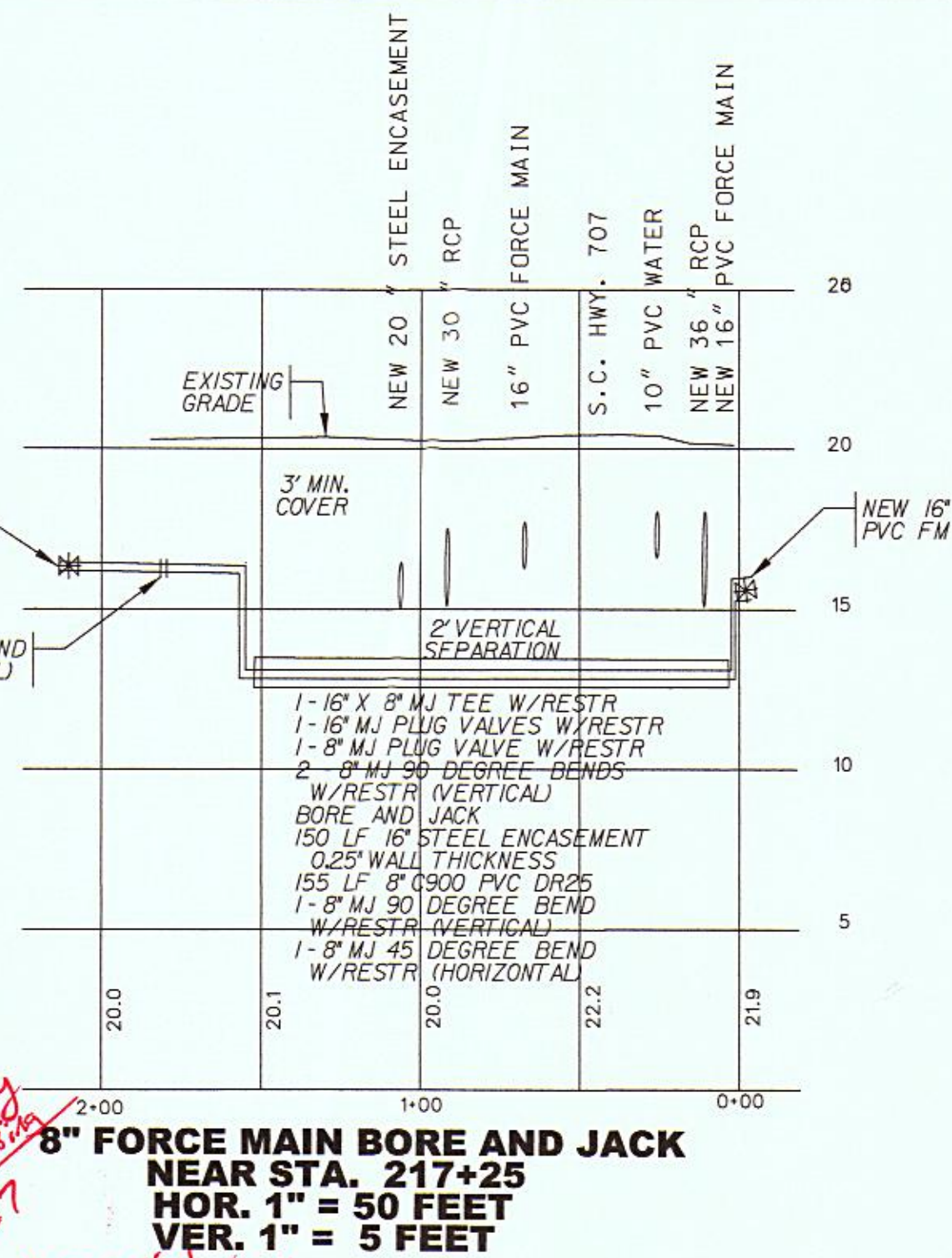
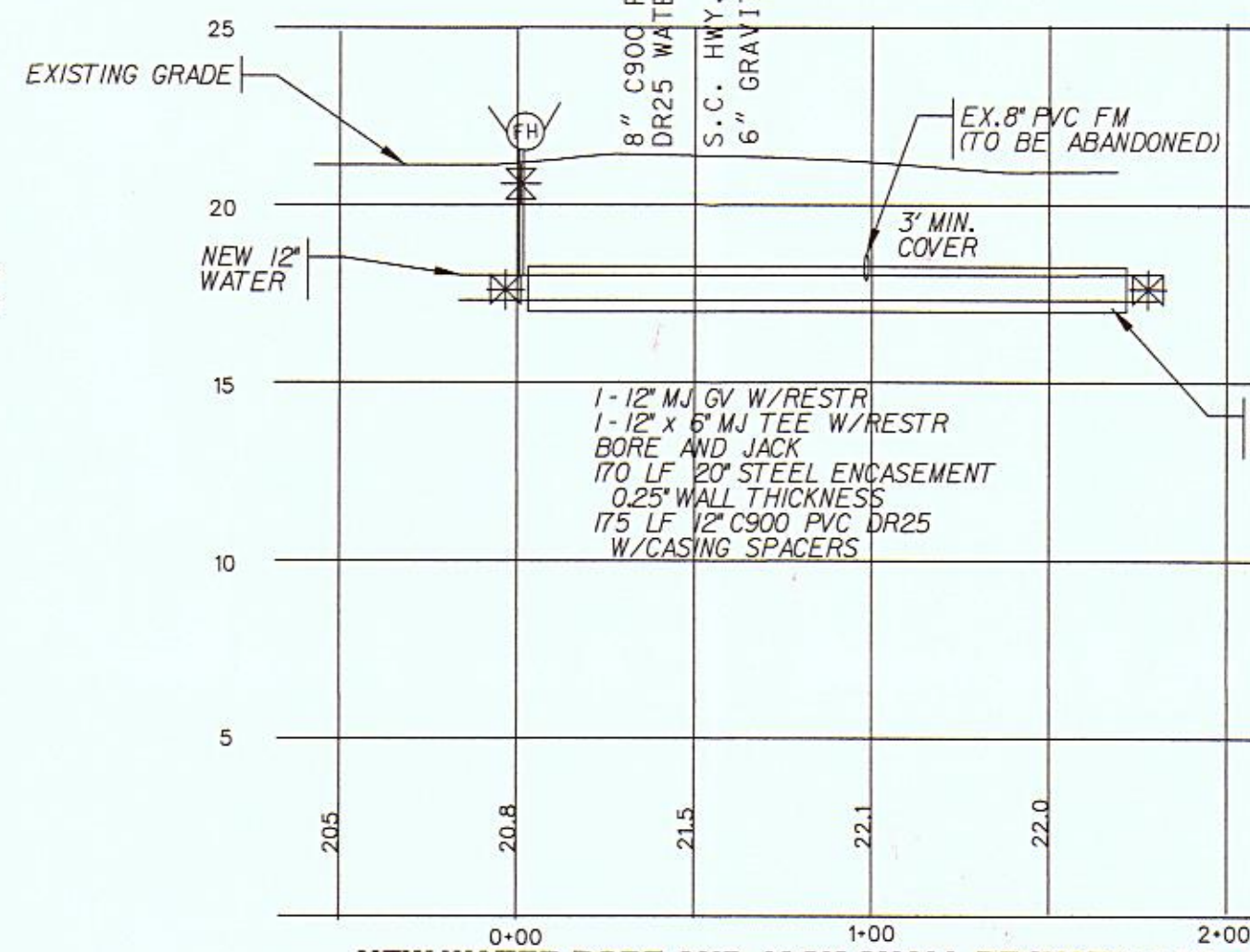


DATE: JULY 2013	
SCALE: 1" = 60 FEET	
FILENAME: WATER/SEWER RELOCATION	
DESIGNED BY	ROBERT E. PERKIN
CHECKED BY	<i>Jim Holt</i> JASON POSTON
APPROVED BY <i>Christina S. Everett</i> CHRISTINA S. EVERETT PE #2125	
SHEET 58 OF 36	

8" FORCE MAIN BORE AND JACK
NEAR STA. 217+25
HOR. 1" = 50 FEET
VER. 1" = 5 FEET

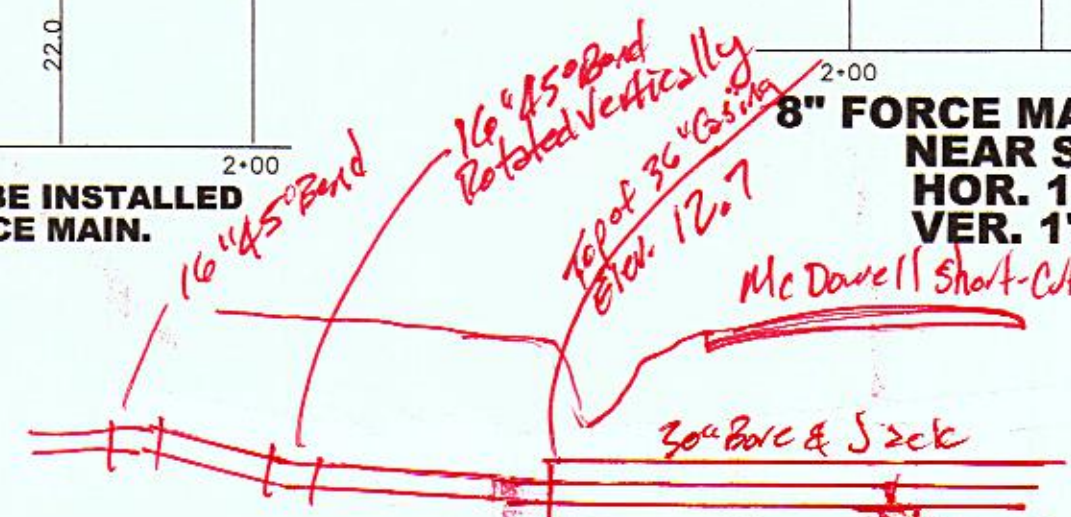
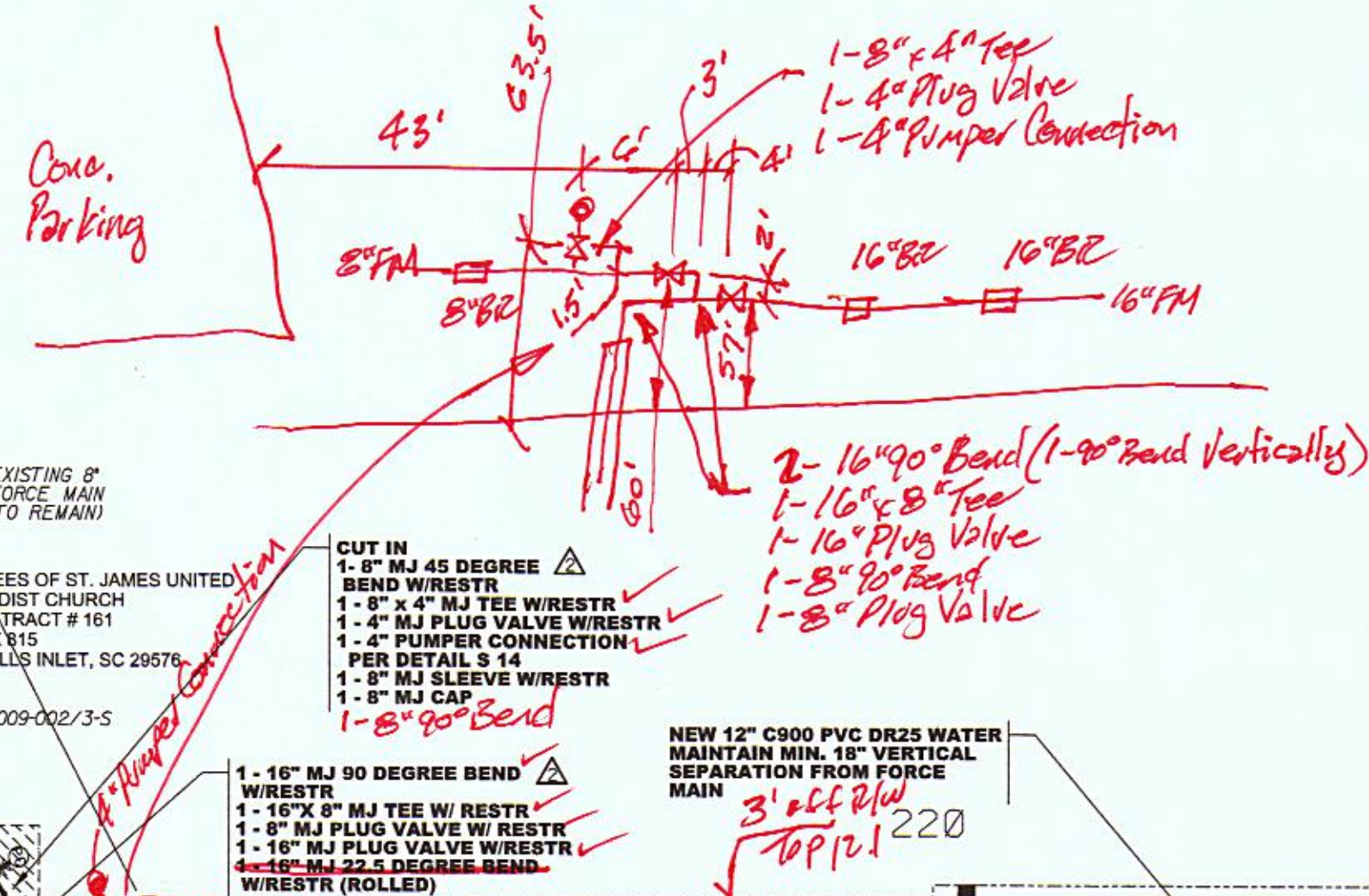


12" WATER MAIN BORE AND JACK
AT MCDOWELL SHORTCUT ROAD
HOR. 1" = 50 FEET
VER. 1" = 5 FEET



NEW WATER BORE AND JACK SHALL BE INSTALLED
AFTER ABANDONMENT OF EX. 8" FORCE MAIN.

8" FORCE MAIN BORE AND JACK
NEAR STA. 217+25
HOR. 1" = 50 FEET
VER. 1" = 5 FEET



1-16" MJ 90 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

BORE AND JACK
170 LF 20" STEEL ENCASEMENT
0.312 IN. WALL THICKNESS
175 12" C900 PVC DR25
CARRIER PIPE PER DETAIL WS # 5
(SEE PROFILE ABOVE)

2-16" MJ 45 DEGREE BEND
W/RESTR

1-12" x 6" MJ TEE W/RESTR
1-12" MJ GV W/RESTR
1-8" MJ GV W/RESTR
1-8" FIRE HYDRANT ASSEMBLY

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

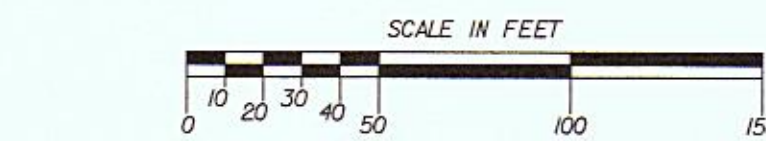
1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

1-16" MJ 45 DEGREE BEND
W/RESTR

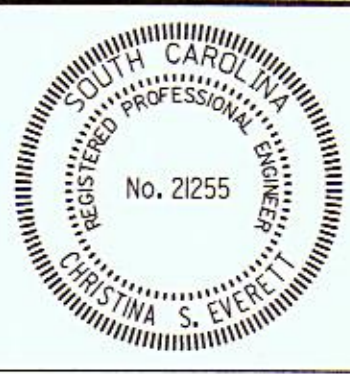


S.C. HWY. 707 WIDENING PROJECT

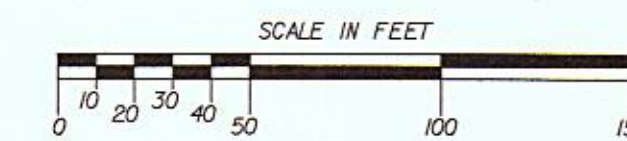
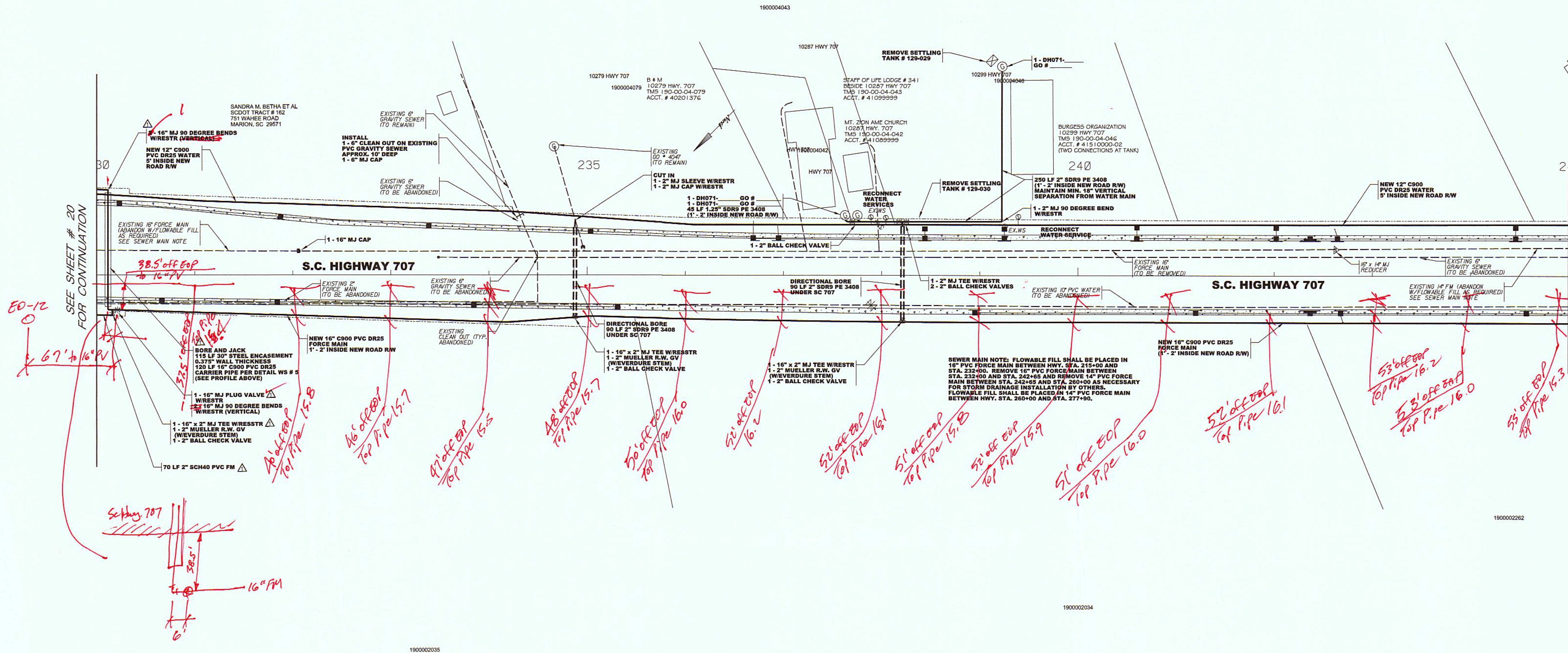
REVISION	DATE	BY	APP
1	10/20/2013	JW	REVISION/LOCATION OF 16" FM
2	10/20/2013	JW	REVISION/LOCATION OF 16" FM
3	10/20/2013	JW	REVISION/LOCATION OF 16" FM

GRAND STRAND
WATER & SEWER
AUTHORITY

S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS
(FROM ENTERPRISE ROAD TO SALEM ROAD)
SCDOT FILE # 26.03679A
WATER PROJECT # 7-556-01
SEWER PROJECT # 8-926-01



DATE: JULY 2013	SCALE: 1" = 50 FEET
FILENAME: WATER/SEWER RELOCATIONS	DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON	APPROVED BY: CHRISTINA S. EVERETT
SHEET 20 OF 36	



S.C. HWY. 707 WIDENING PROJECT

REVISION
BY
DATE
REVISED LOCATION OF 16\"/>

GRAND STRAND
WATER & SEWER
AUTHORITY

770 JACKSON BLUFF RD.
P.O. BOX 2368
CONWAY, SC 29539
(843) 347-4641 OR 448-1688
E-MAIL: GSA@GSA.COM

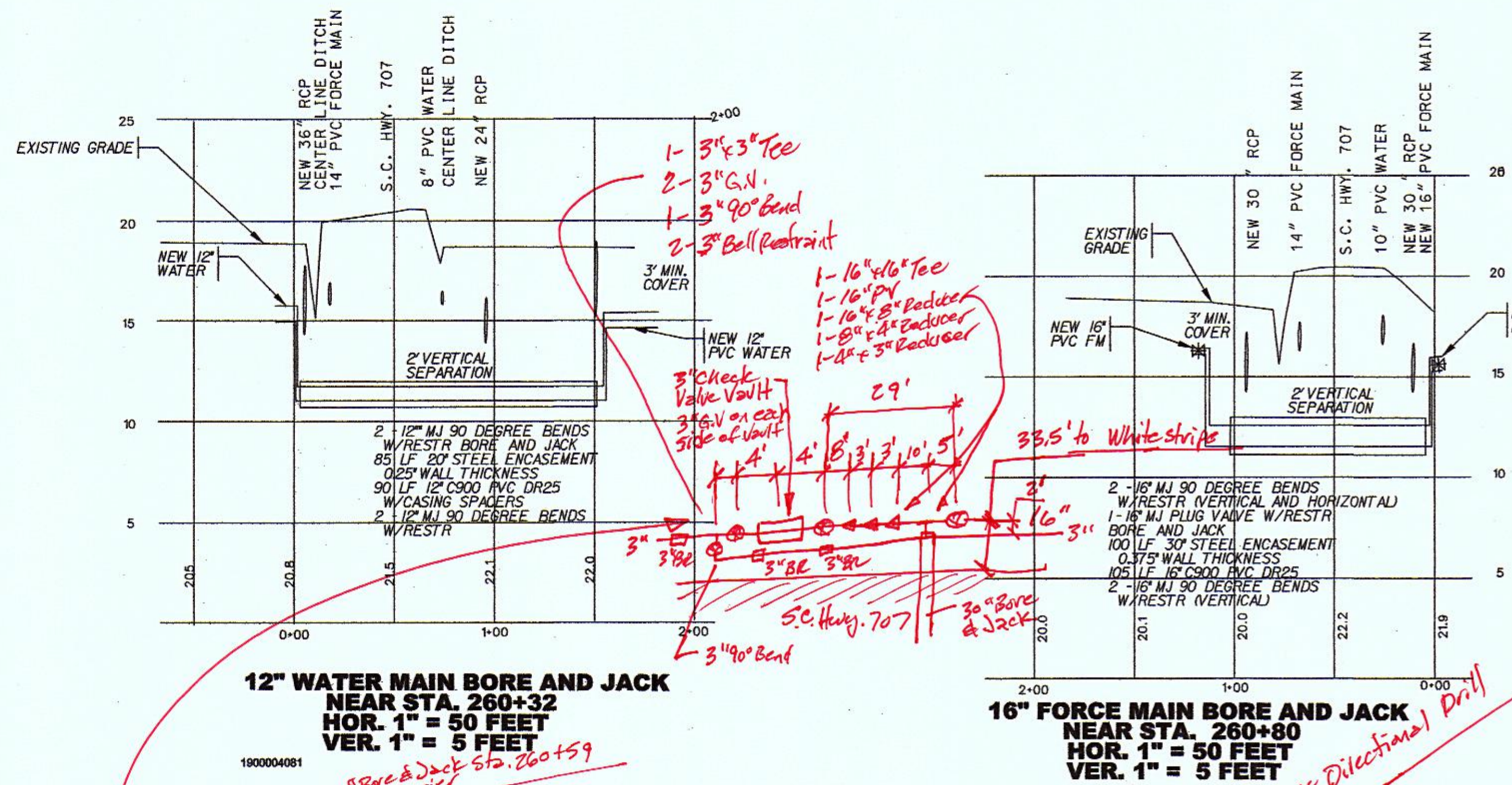
S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS
(FROM ENTERPRISE ROAD TO SALEM ROAD)

SCDOT FILE # 26-036770A
WATER PROJECT # 7-558-01
SEWER PROJECT # 8-928-01

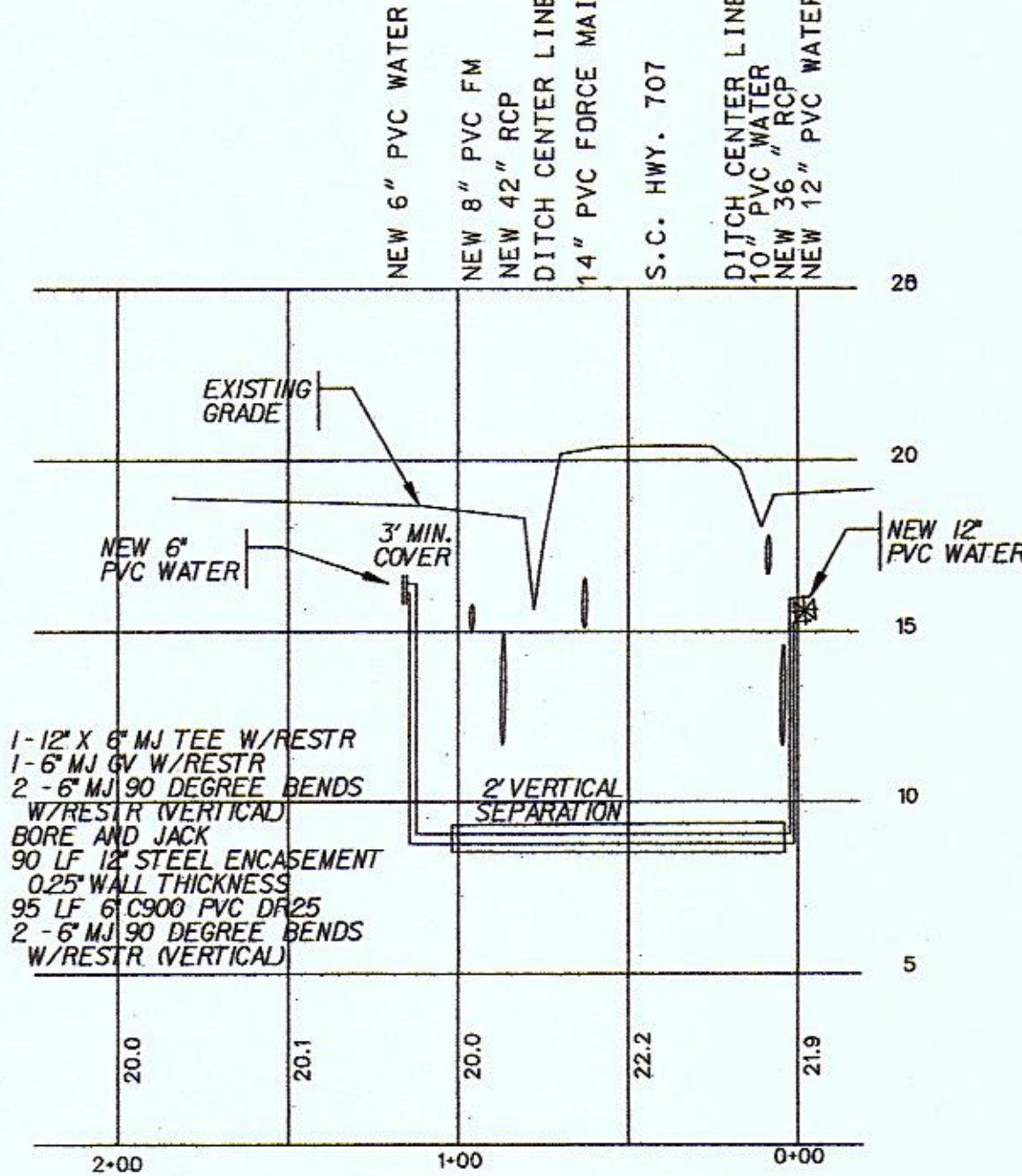
DATE: JULY 2013
SCALE: 1" = 50 FEET
FILENAME: WATER/SEWER RELOCATIONS

DESIGNED BY	ROBERT E. PERKINS
CHECKED BY	JASON POSTON
APPROVED BY	

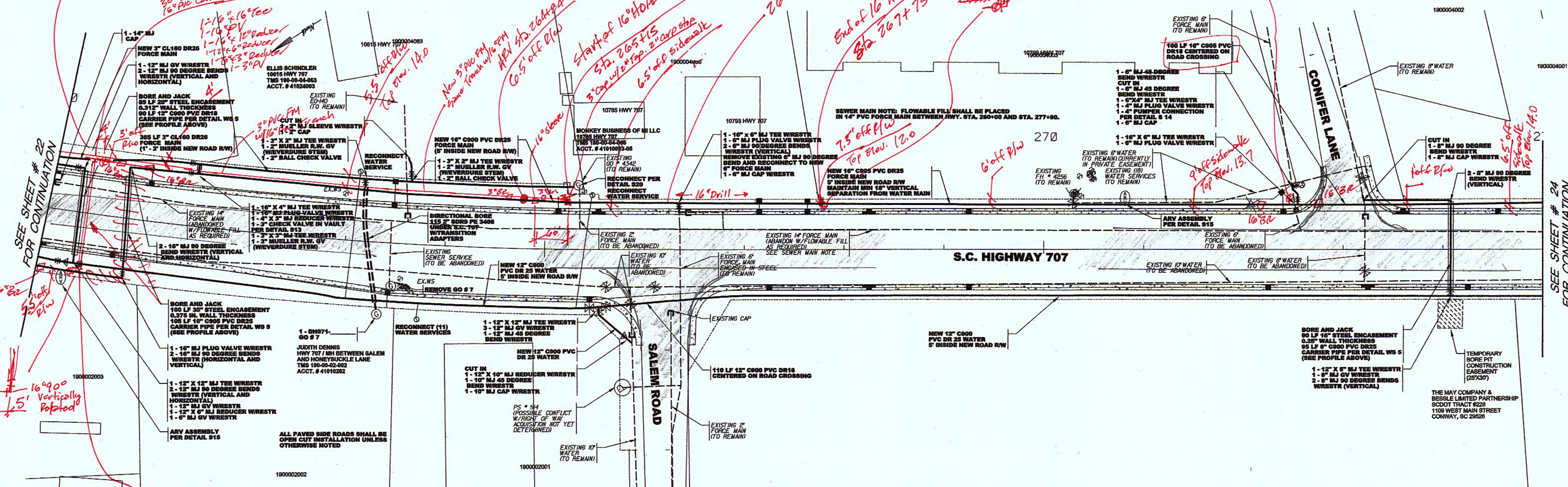
CHRISTINA S. EVERETT PE #21255
SHEET 21 OF 36



16\"/>

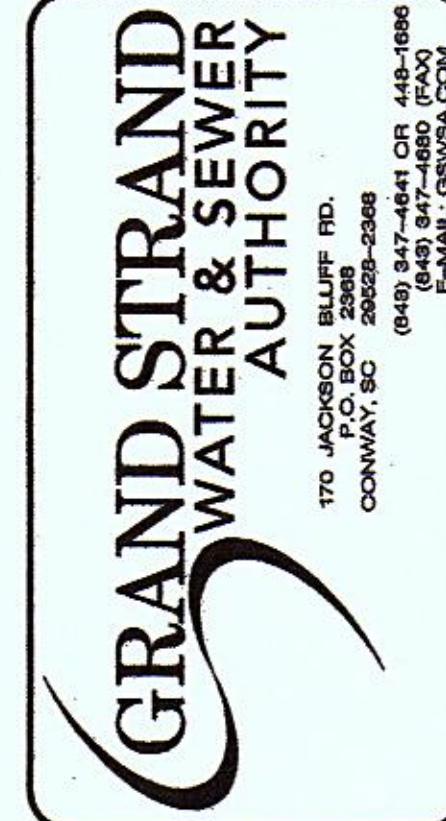


8\"/>



SEE SHEET # 24
FOR CONTINUATION

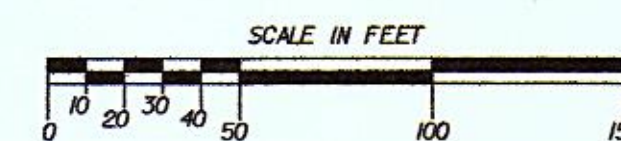
PERSON	DATE

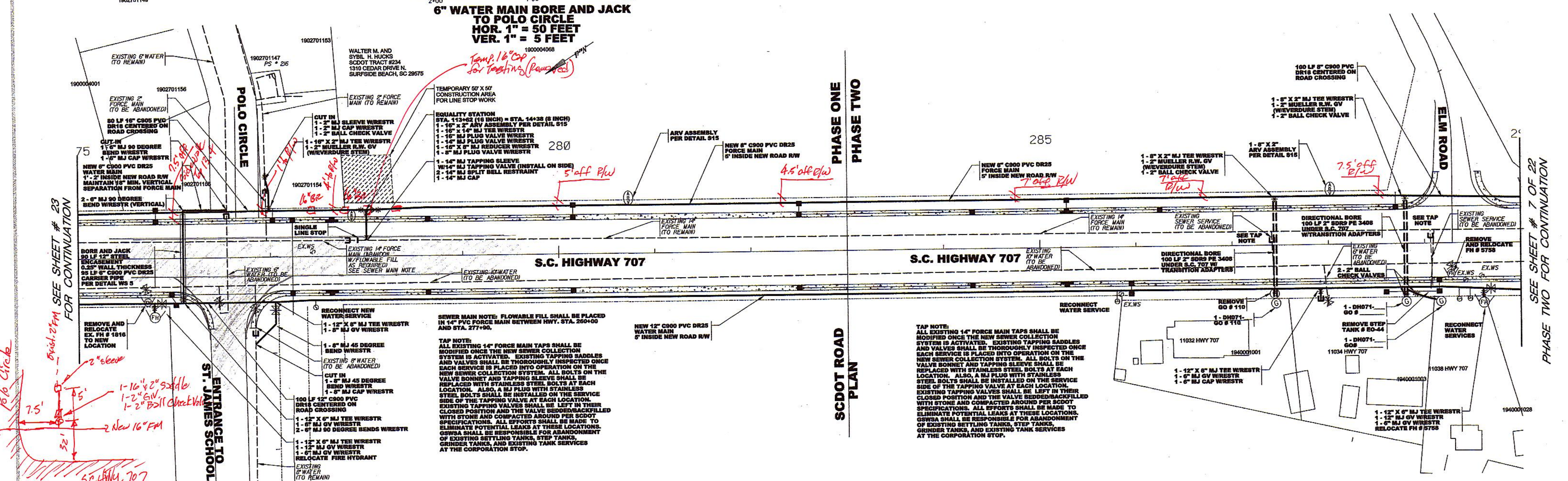


**S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS**
(FROM ENTERPRISE ROAD TO SALEM ROAD)
SCDOT FILE # 26.036779A
WATER PROJECT # 7-558-01
SEWER PROJECT # 8-928-01



DATE: JULY 2018	SCALE: 1" = 50 FEET
FILENAME: WATER/SEWER RELOCATIONS	DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON	APPROVED BY: CHRISTINA S. EVERETT
SHEET 23 OF 36	





SCALE IN FEET

S.C. HWY. 707 WIDENING PROJECT

PERSON		BY		DATE

GRAND STRAND

WATER & SEWER AUTHORITY

170 JACKSON BLUFF RD.
 FARMINGTON, CT 06030
 (860) 226-2398
 (860) 347-6241 OR 448-1888
 FAX (860) 347-6241
WWW.GSANDS.COM

S.C. HIGHWAY 707 WIDENING PROJECT

WATER AND SEWER RELOCATIONS

(FROM ENTERPRISE ROAD TO SALEM ROAD)

SCDOT FILE # 26.036779A
 WATER PROJECT # 7-556-01
 SEWER PROJECT # 8-928-01



DATE: JULY 2013	
SCALE: 1" = 50 FEET	
FILENAME: WATER/SEWER RELOCATIONS	
DESIGNED BY	ROBERT E. PERKINS
CHECKED BY	 JASON POSTON
APPROVED BY  CHRISTINA S. EVERETT PE # 21255	
SHEET 24 OF 36	

REMOVE SETTLING TANK # 129-023
CARON MARIE MCDOWELL COLLINS
5540 GRAPE ARBOR
TMS 190-00-04-008
ACCT. # 41095540

1 - DH071-
CONNECT PER
DETAIL S20
GO #

90 LF 1.25" SDR35 PE 3408
18.5'
4'
7' off Rd

1 - 2" MUELLER R.W. GV
(WIEVERDURE STEM)
1 - 2" PUMPER CONNECTION
PER DETAIL S14

1 - 2" MJ TEE WIRESTR
1 - 2" MUELLER R.W. GV
(WIEVERDURE STEM)
1 - 2" BALL CHECK VALVE

REMOVE SETTLING TANK # 129-025

1 - DH071-
CONNECT PER
DETAIL S20
GO #

5550 GRAPE ARBOR
EX.WS

PATRICK AND LISA MCDOWELL
5550 GRAPE ARBOR
TMS 190-00-04-045
ACCT. # 41019550

REMOVE SETTLING TANK # 129-024

KEN MCDOWELL ETAL
5548 GRAPE ARBOR
TMS 190-00-04-007
ACCT. # 41004344

EXISTING 2" WATER
(TO REMAIN)

EXISTING 6" GRAVITY SEWER
(TO BE ABANDONED)

1900004045
PP 32.5'

19.5'

5.5'

GRAPE ARBOR

NEW 2" SCH 40
PVC FORCE MAIN
(INSTALL ALONG
EXISTING GRAVITY LINE)

5570 GRAPE ARBOR

1 - DH071-
CONNECT PER
DETAIL S20
GO #

1900004035

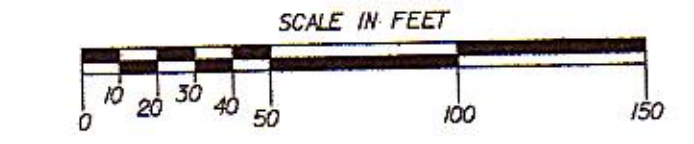
REMOVE SETTLING TANK # 129-026

RANDY L. AND DONNA B. PETERS
5570 GRAPE ARBOR
TMS 190-00-04-035
ACCT. # 41005570

REMOVE SETTLING TANK # 129-027

ROBBIE MCDOWELL
5571 GRAPE ARBOR
TMS 190-00-04-007
ACCT. # 41012153

SEE SHEET # 22
FOR CONTINUATION



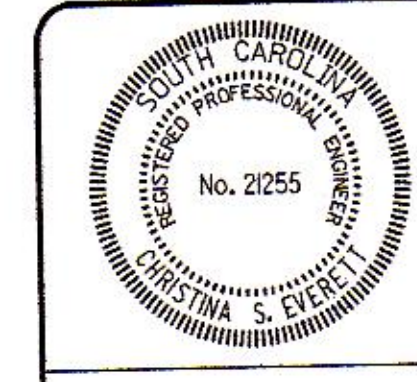
REVISION	DATE

GRAND STRAND
WATER & SEWER
AUTHORITY

170 JACOBSON E. SUITE 200
CONWAY, SC 29525-2908
(803) 341-4100 (FAX)
E-MAIL: GSW@GSA.COM

S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS
(FROM ENTERPRISE ROAD TO SALEM ROAD)

SCDOT FILE # 28.036558-01
WATER PROJECT # 8-928-01
SEWER PROJECT # 8-928-01



DATE: JULY 2013
SCALE: 1" = 50 FEET
FILENAME: WATERSEWER RELOCATIONS

DESIGNED BY: ROBERT E. PERKINS

CHECKED BY: JASON POSTON

APPROVED BY: *Christina S. Everett*
CHRISTINA S. EVERETT PE #21255

SHEET 26 OF 36