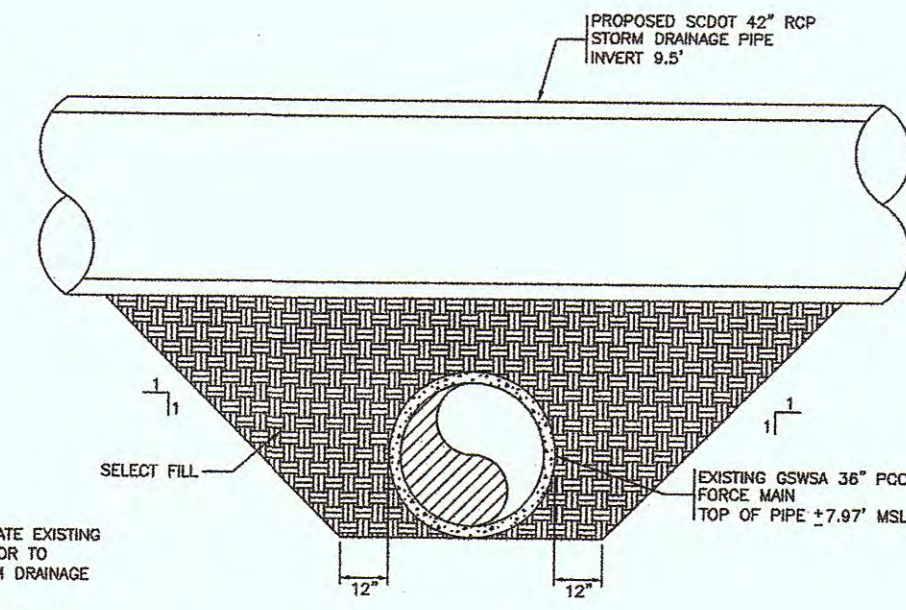
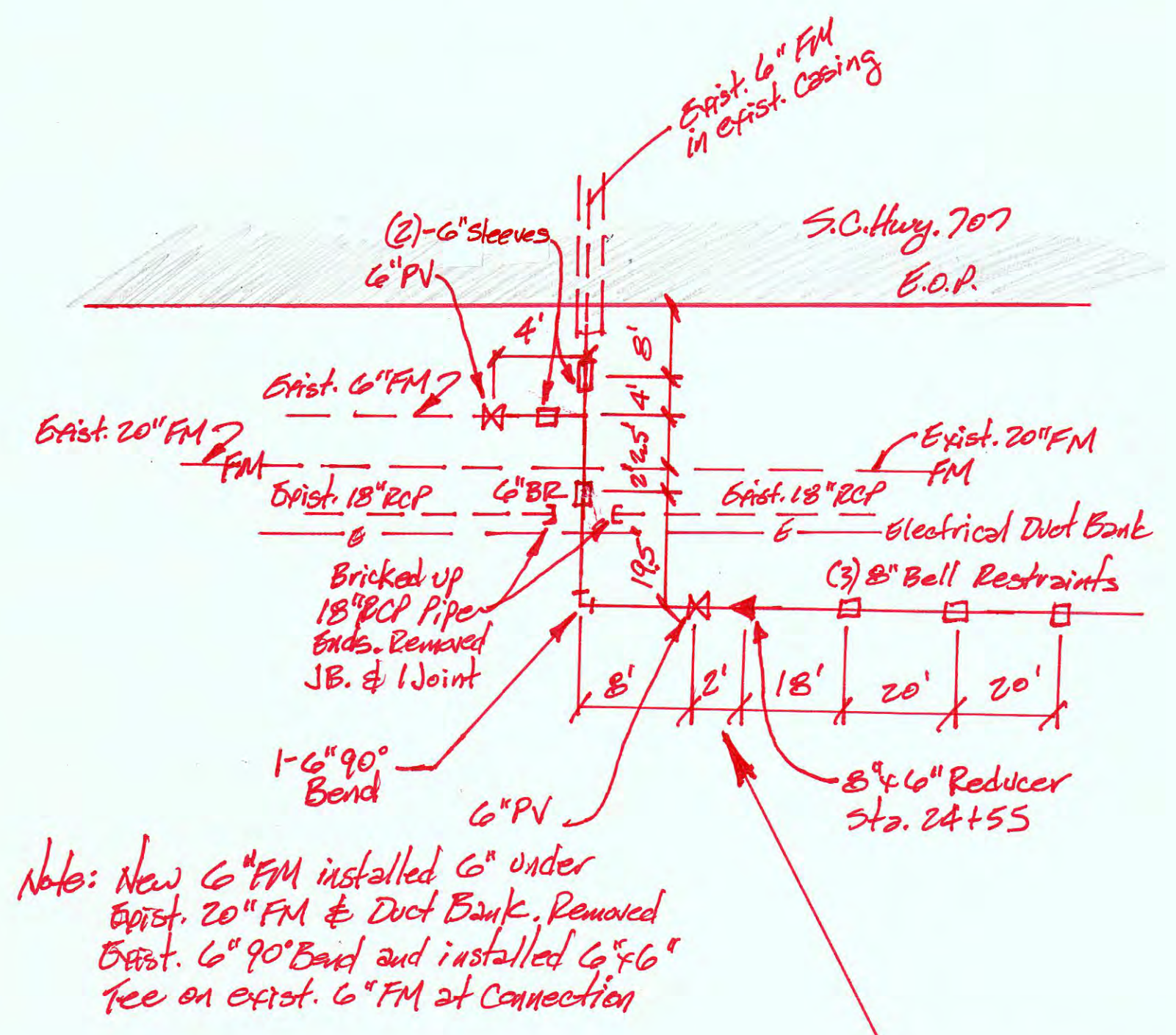
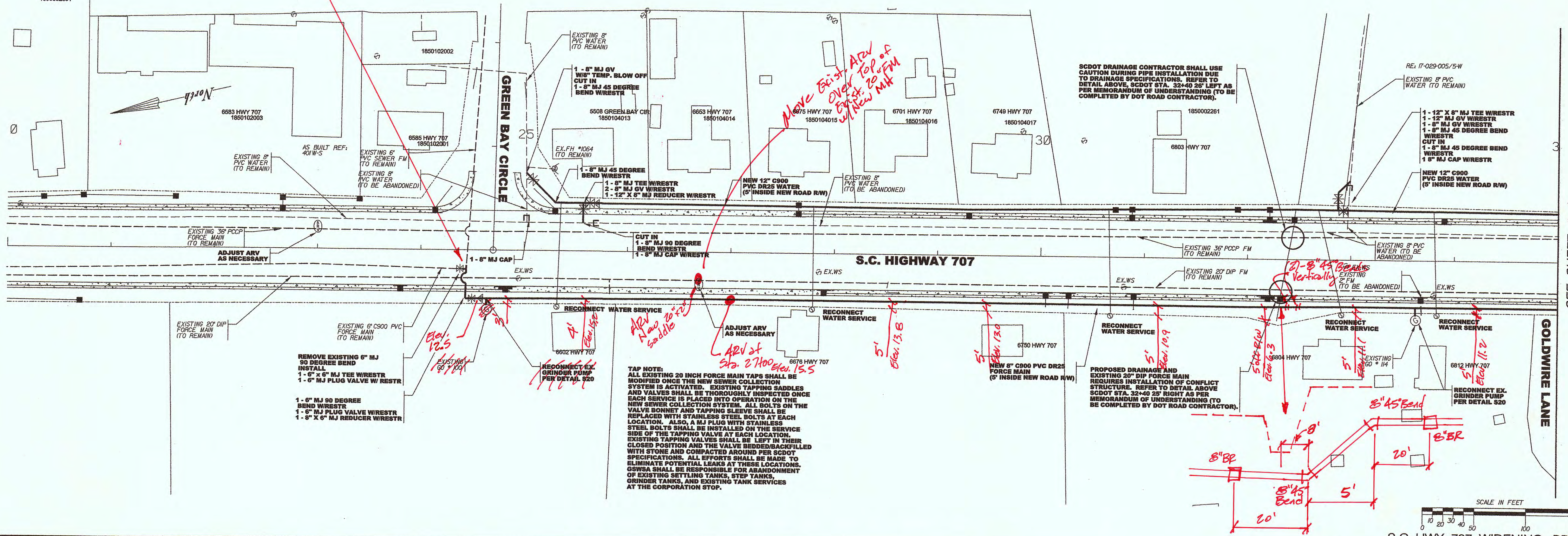
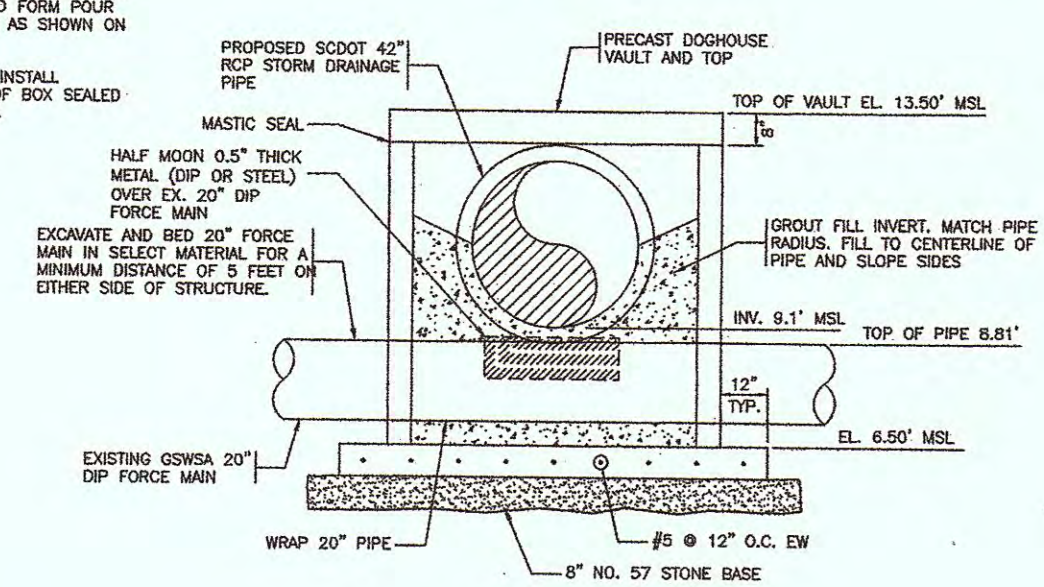
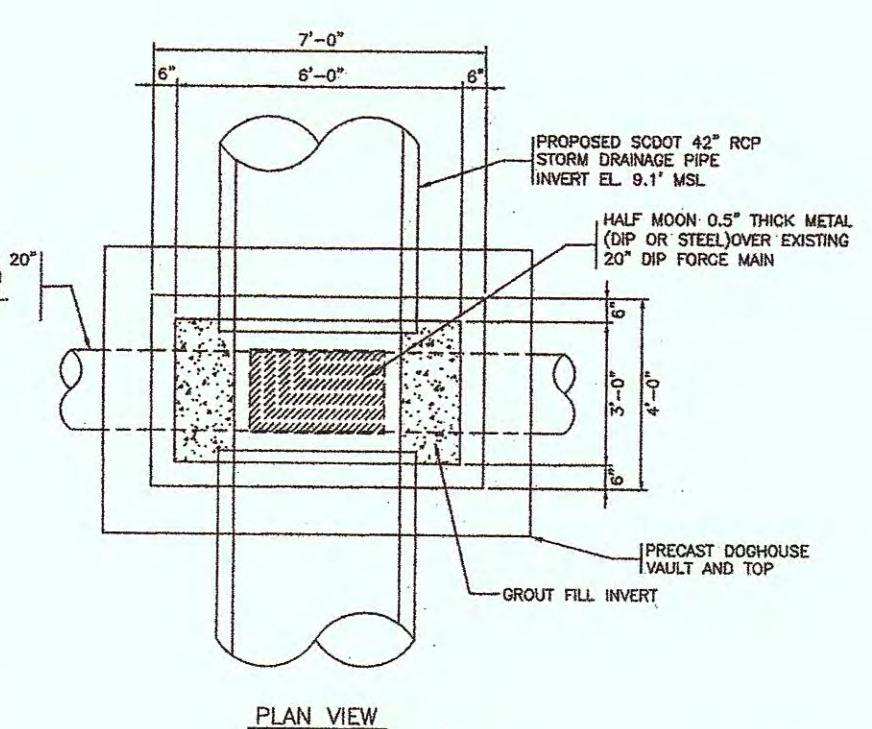




- NOTES:
1. CONTRACTOR SHALL LOCATE EXISTING 36\"/>
 2. CONTRACTOR SHALL CONSTRUCT BASE SLAB UNDER 20\"/>
 3. CONTRACTOR SHALL INSTALL DOORHOUSE VALVE OVER THE EXISTING 20\"/>
 4. CONTRACTOR SHALL PLACE A SECTION OF DIP OR STEEL PIPE (0.5\"/>
 5. CONTRACTOR SHALL WRAP 20\"/>
 6. CONTRACTOR SHALL INSTALL PRECAST LID ON TOP OF BOX SEALED AT JOINTS WITH MASTIC.



SEE SHEET # 8
FOR CONTINUATION

REVISION

BY

DATE

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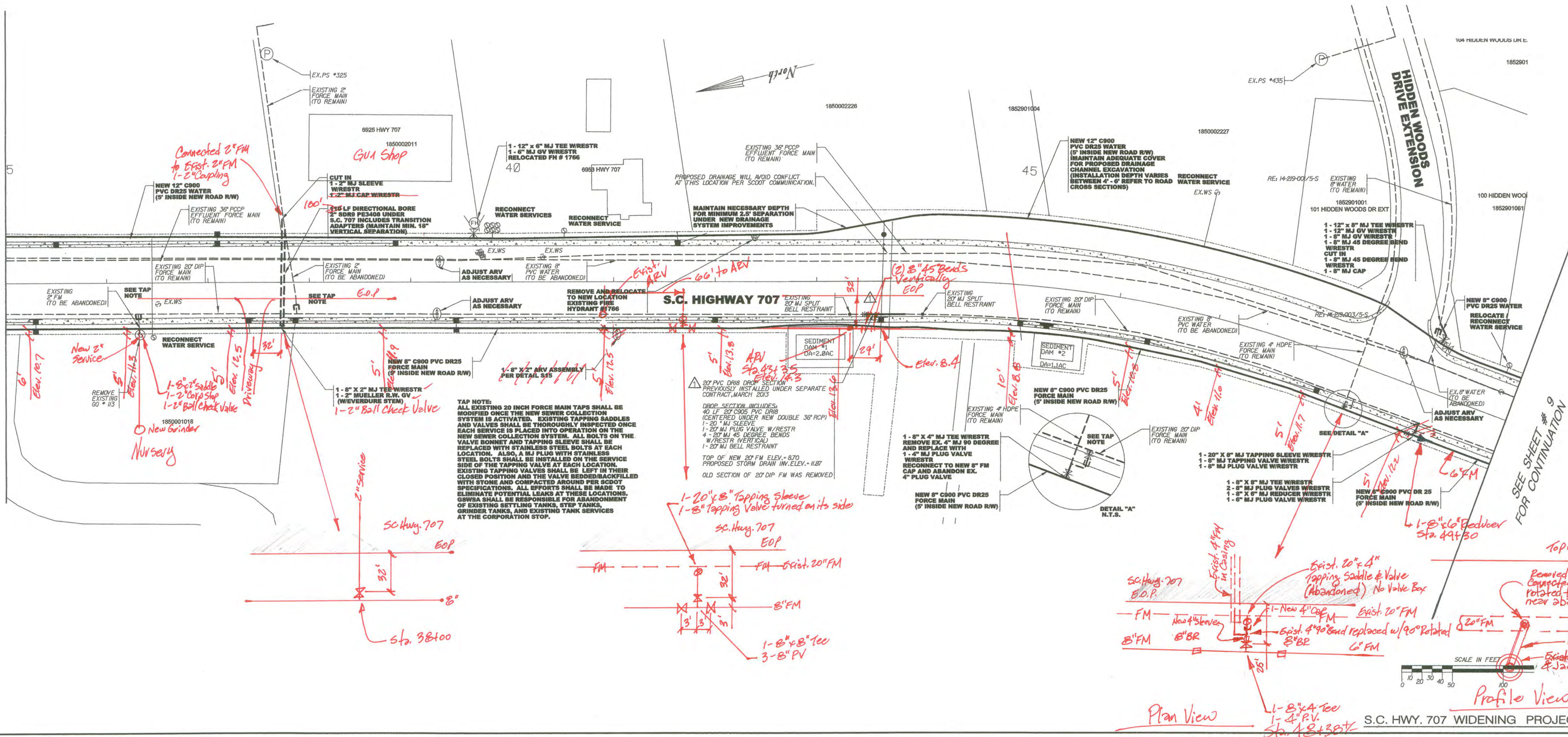
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SEE SHEET # 7
FOR CONTINUATION



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

GRAND STRAND
WATER & SEWER
AUTHORITY
170 JACKSON BLVD. RD.
P.O. BOX 2338
COLUMBIA, SC 29202-2338
(803) 799-3389
(803) 799-3399
(803) 799-3399
E-MAIL: GSWA@GSA.COM

S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS
(FROM ENTERPRISE ROAD TO SALEM ROAD)
SCOT FILE # 26.036779A
PROJECT # 2-066-01
SEWER PROJECT # 8-920-01

SEWER PROJECT # 8-920-01
No. 21255
DESIGNED BY
CHECKED BY
APPROVED BY
ROBERT E. PERKINS
JASON POSTON
CHRISTINA S. EVERETT
SHEET 8 OF 36

FILENAME: WATER/SEWER RELOCATIONS

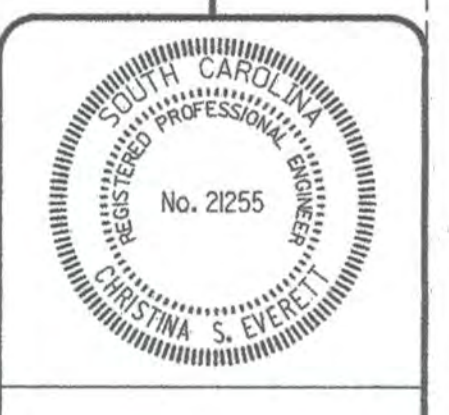
DATE	OCT. 2012
BY	REP
REVISION	REVISION
PENDING SEPARATE CONTRACT COMPLETION	FORCE MAIN SECTION LOWERED
REP	REP

GRAND STRAND WATER & SEWER AUTHORITY

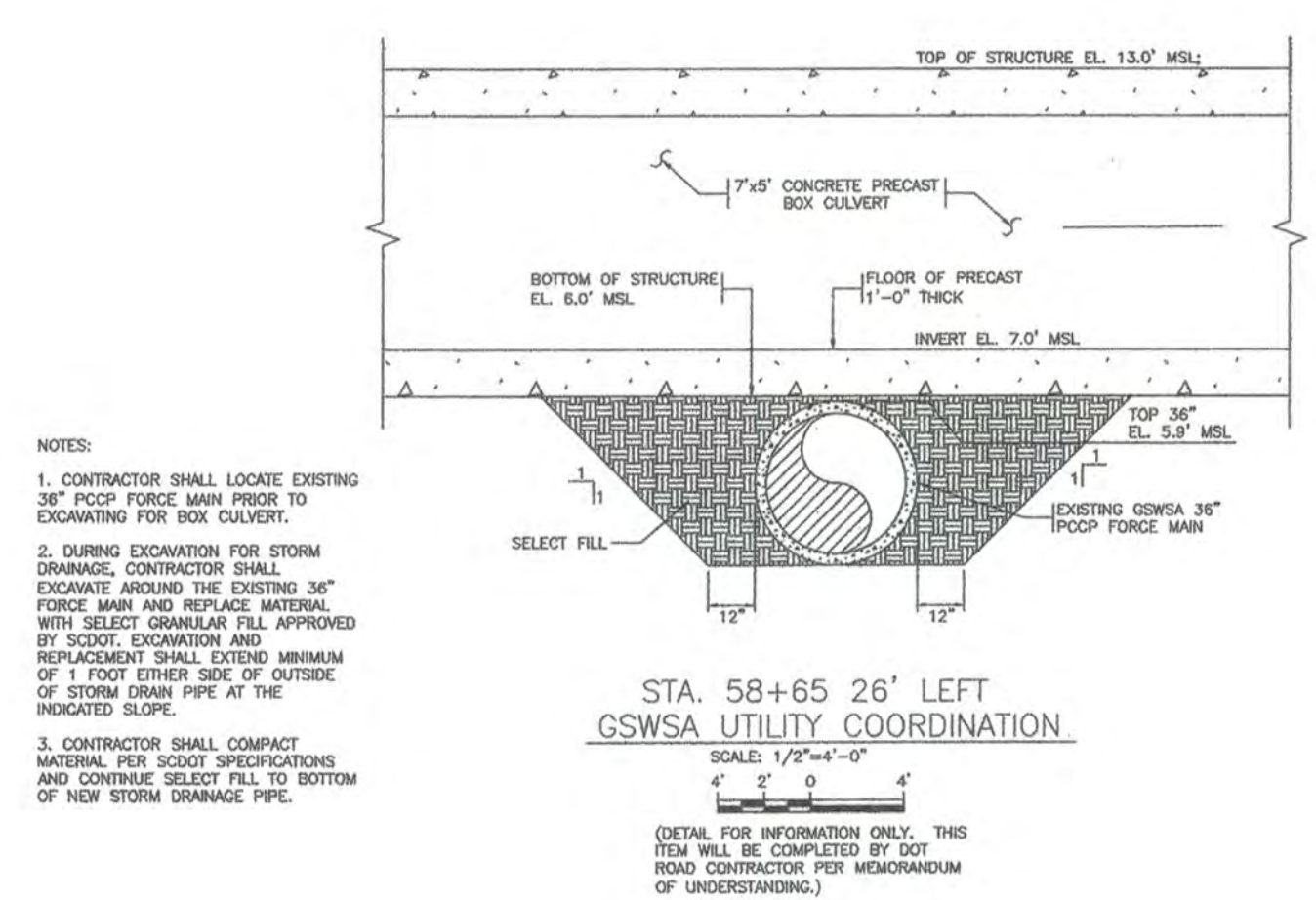
170 JACKSON BLVD. 2ND FLOOR
CONWAY, SC 29524-2098
(843) 347-4400 (FAX)
(843) 347-4400 (CELL)
E-MAIL: GSWSA@GMAIL.COM

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

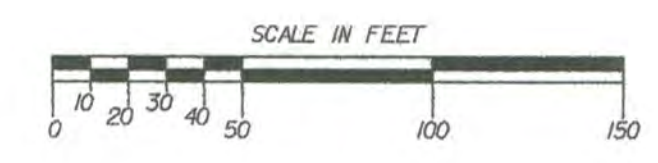
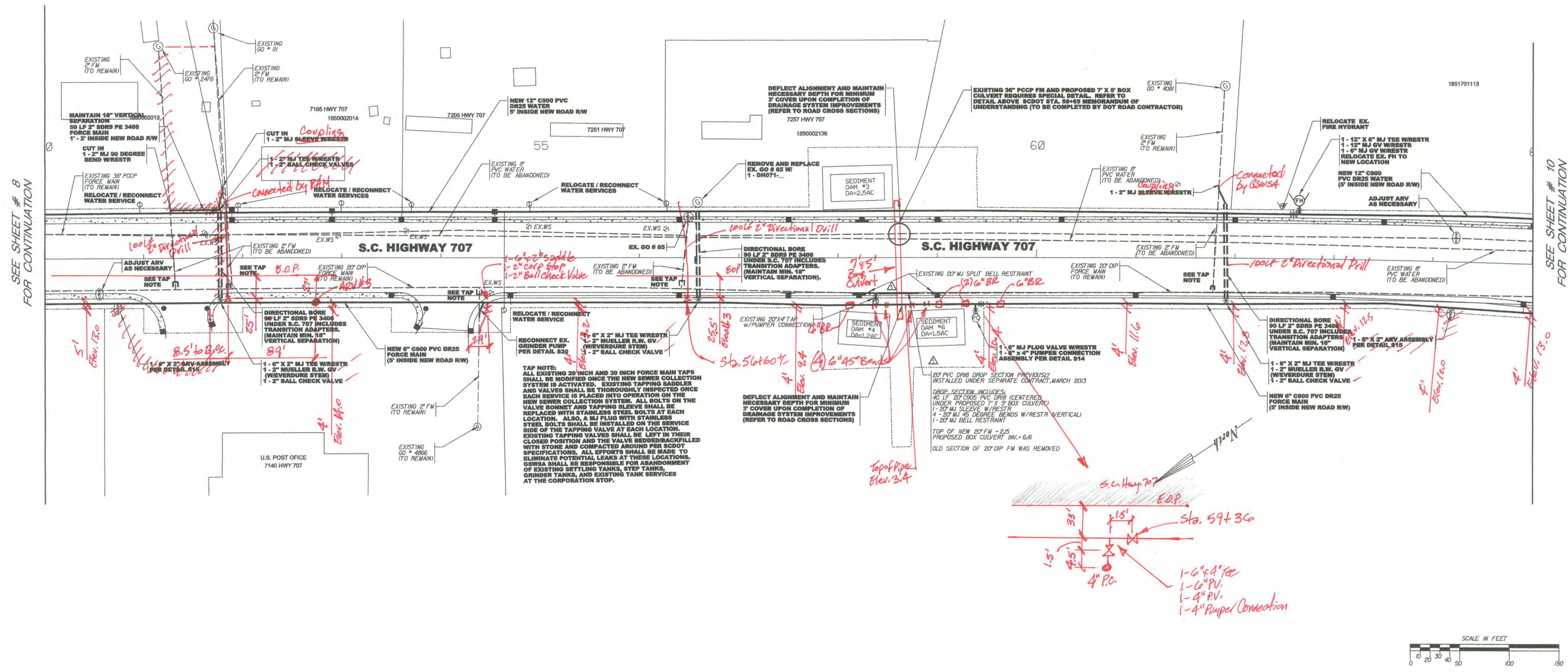
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WATER PROJECT # 7-559-01
SEWER PROJECT # 8-928-01

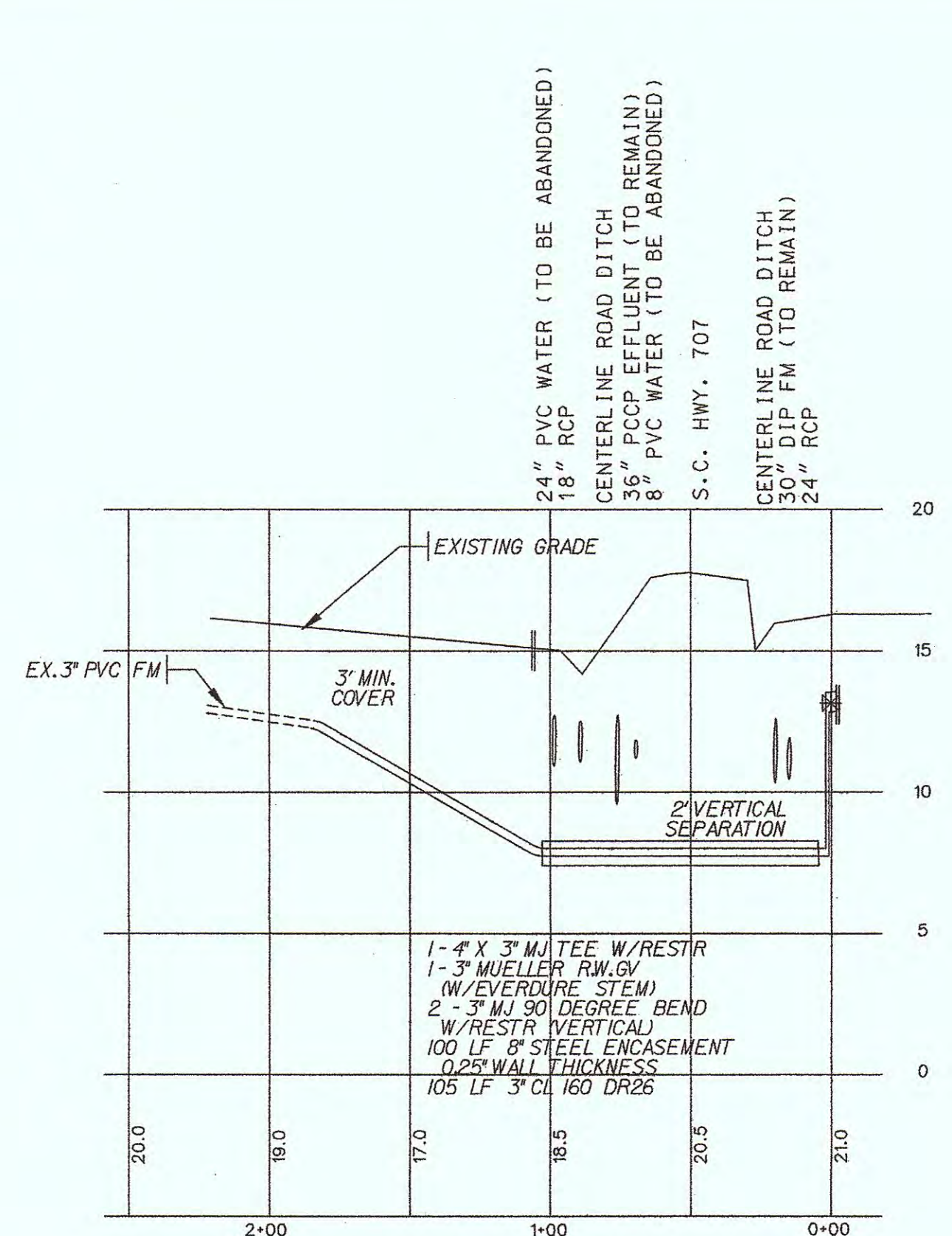


DATE: JULY 2013
SCALE: 1" = 80 FEET
FILENAME: WATER/SEWER RELOCATIONS
DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: CHRISTINA S. EVERETT
FE #21255
SHEET 9 OF 36

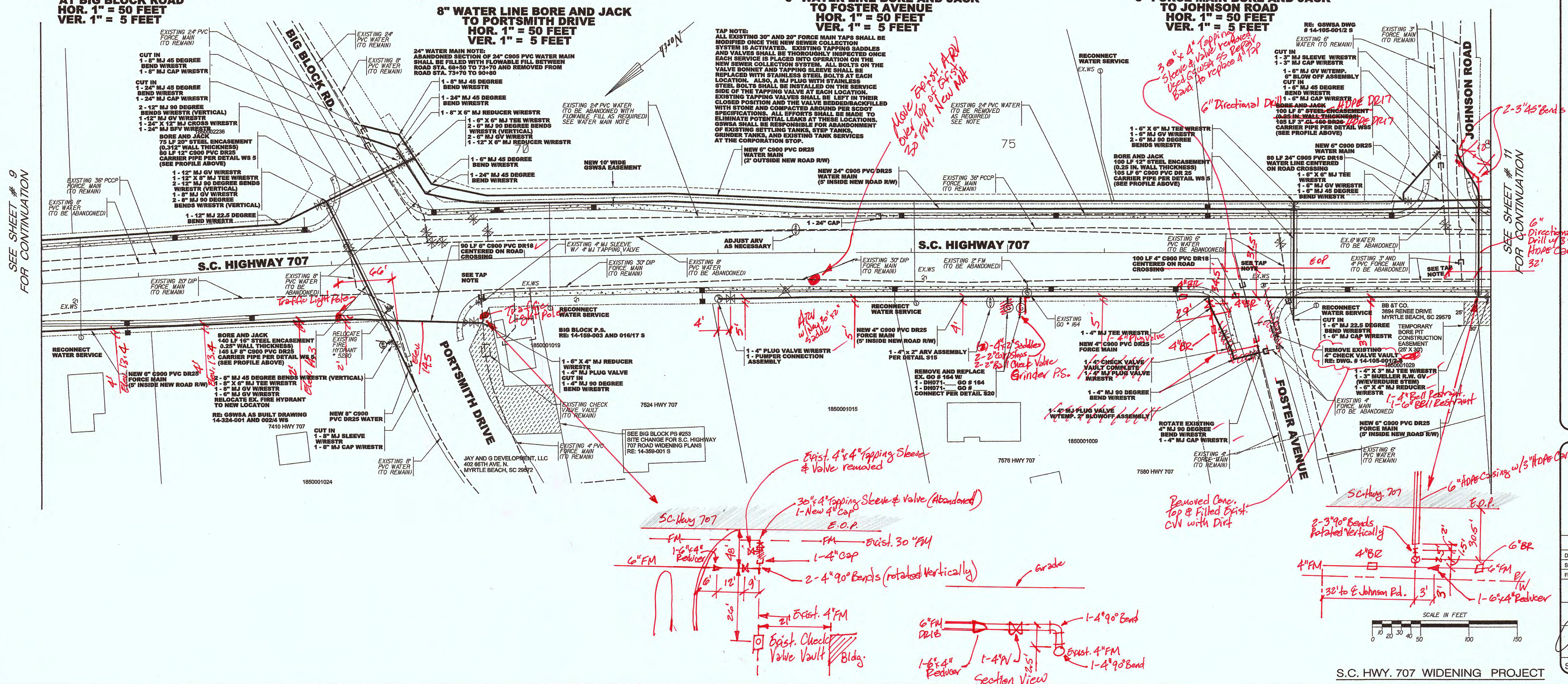


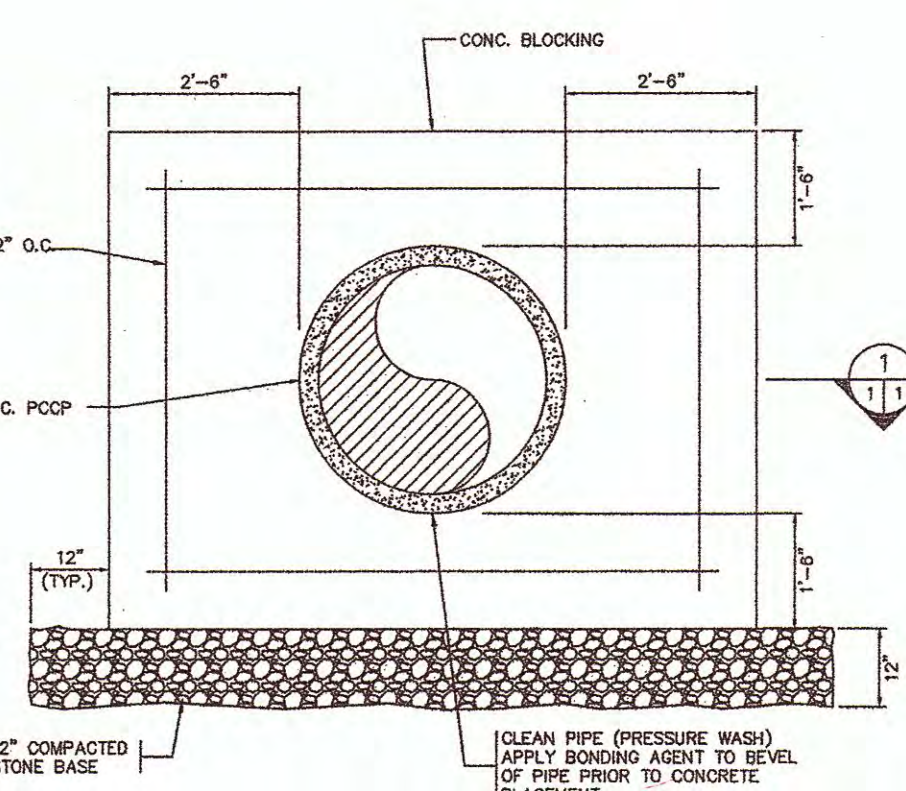
- NOTES:
1. CONTRACTOR SHALL LOCATE EXISTING 36" PCCP FORCE MAIN PRIOR TO EXCAVATING FOR BOX CULVERT.
 2. DURING EXCAVATION FOR STORM DRAINAGE, CONTRACTOR SHALL EXCAVATE AROUND THE EXISTING 36" FORCE MAIN AND REPAIR/REPLACE WITH SELECT GRANULAR FILL APPROVED BY SCDOT. EXCAVATION AND REPAIRMENT SHALL EXTEND MINIMUM OF 1 FOOT EITHER SIDE OF OUTSIDE OF STORM DRAIN PIPE AT THE INDICATED SLOPE.
 3. CONTRACTOR SHALL COMPACT MATERIAL PER SCDOT SPECIFICATIONS AND CONTINUE SELECT FILL TO BOTTOM OF NEW STORM DRAINAGE PIPE.





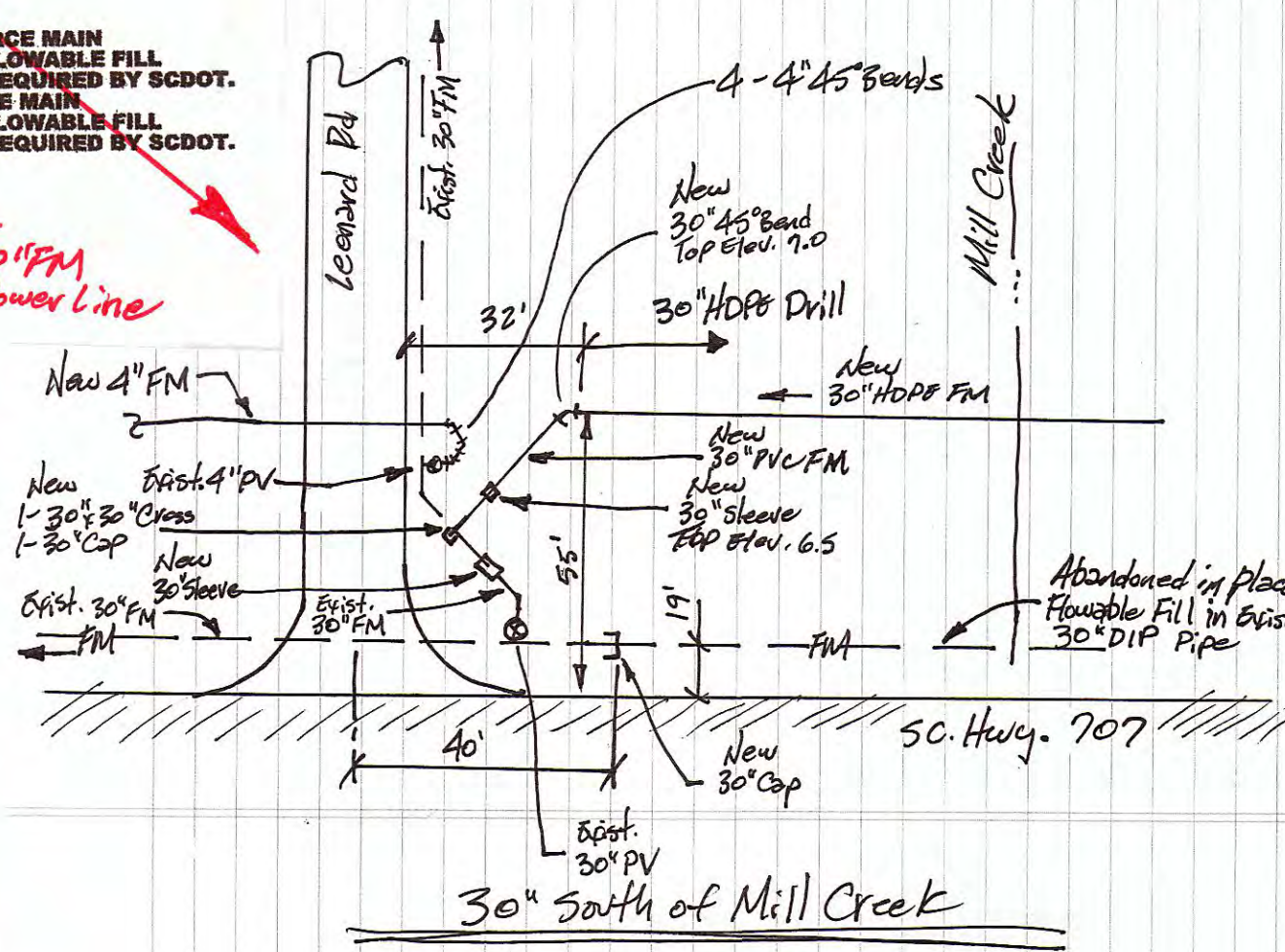
**3" FORCE MAIN BORE AND JACK
TO JOHNSON ROAD
HOR. 1" = 50 FEET
VER. 1" = 5 FEET**





PIPE BLOCKING SECTION VIEW
SCALE: 1" = 2'-6"

Then as of Whitten As-Built Survey
 Sta. 9+07.55 - 4728' E of New R.
 End of 36" HDPE Phil.
 - 36" 4.5" Band (Ann. 19)
 - 36" BP.
 - 36" 4.5" Band
 - 36" 4.5" Band
 - 36" Appleton (Sta. 49)
 - 36" 4.5" Band



SEE SHEET # 12
FOR CONTINUATION

FROM ENTERPRISE ROAD TO SALEM ROAD)
SCDOT FILE # 26.036779A

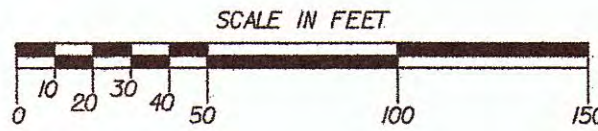


DATE: JULY 2013	
SCALE: 1" = 50 FEET	
FILENAME: WATER/SEWER RELOCATIONS	
DESIGNED BY	ROBERT E. PERKINS
CHECKED BY	<i>Jason Poston</i> JASON POSTON
APPROVED BY <i>Christina S. Everitt</i> CHRISTINA S. EVERITT PE #21265	
SHEET 11 OF 26	

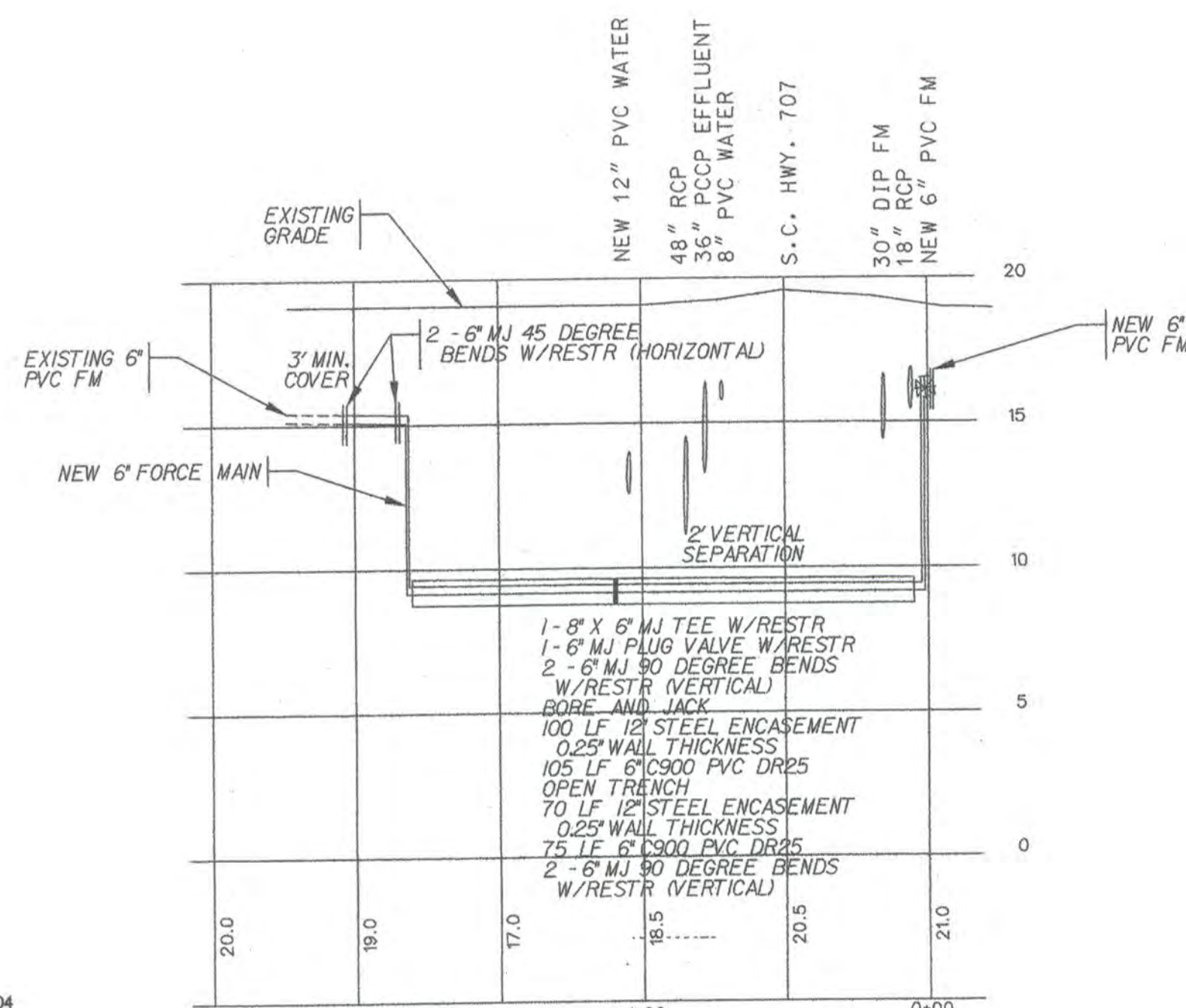
GRAND STRAND
WATER & SEWER
AUTHORITY

170 JACOBSON BLUFF RD.
P.O. BOX 2368
CONWAY, SC 29526-2368

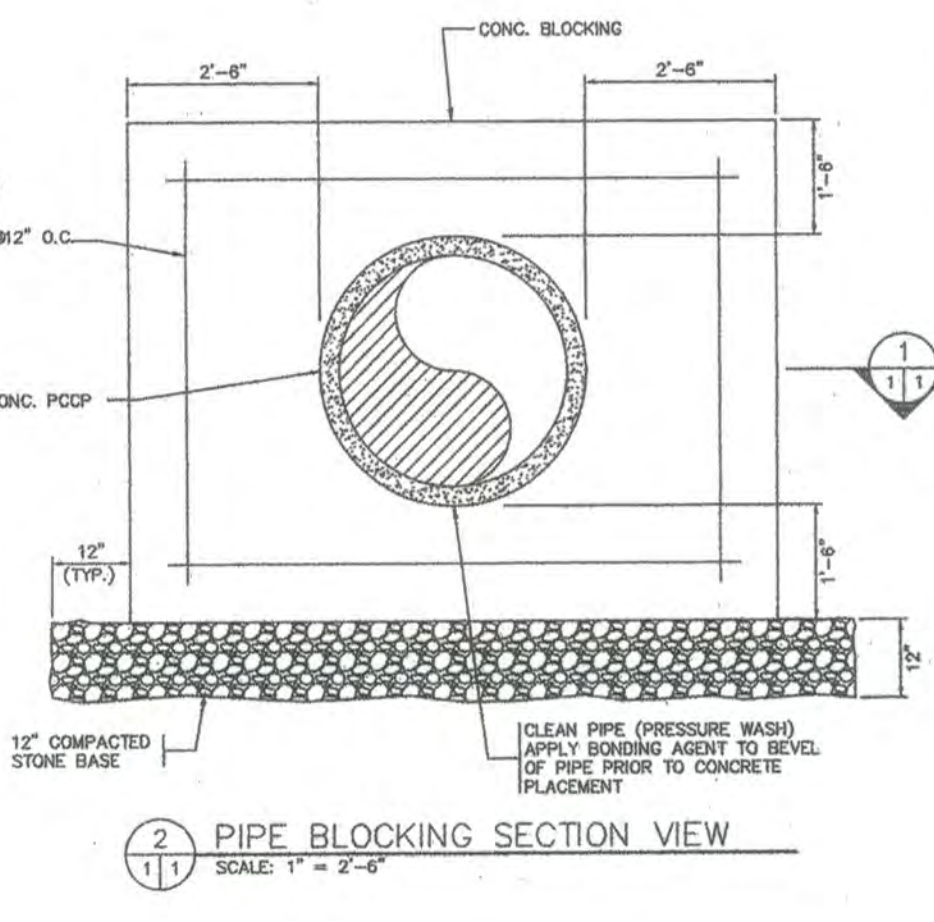
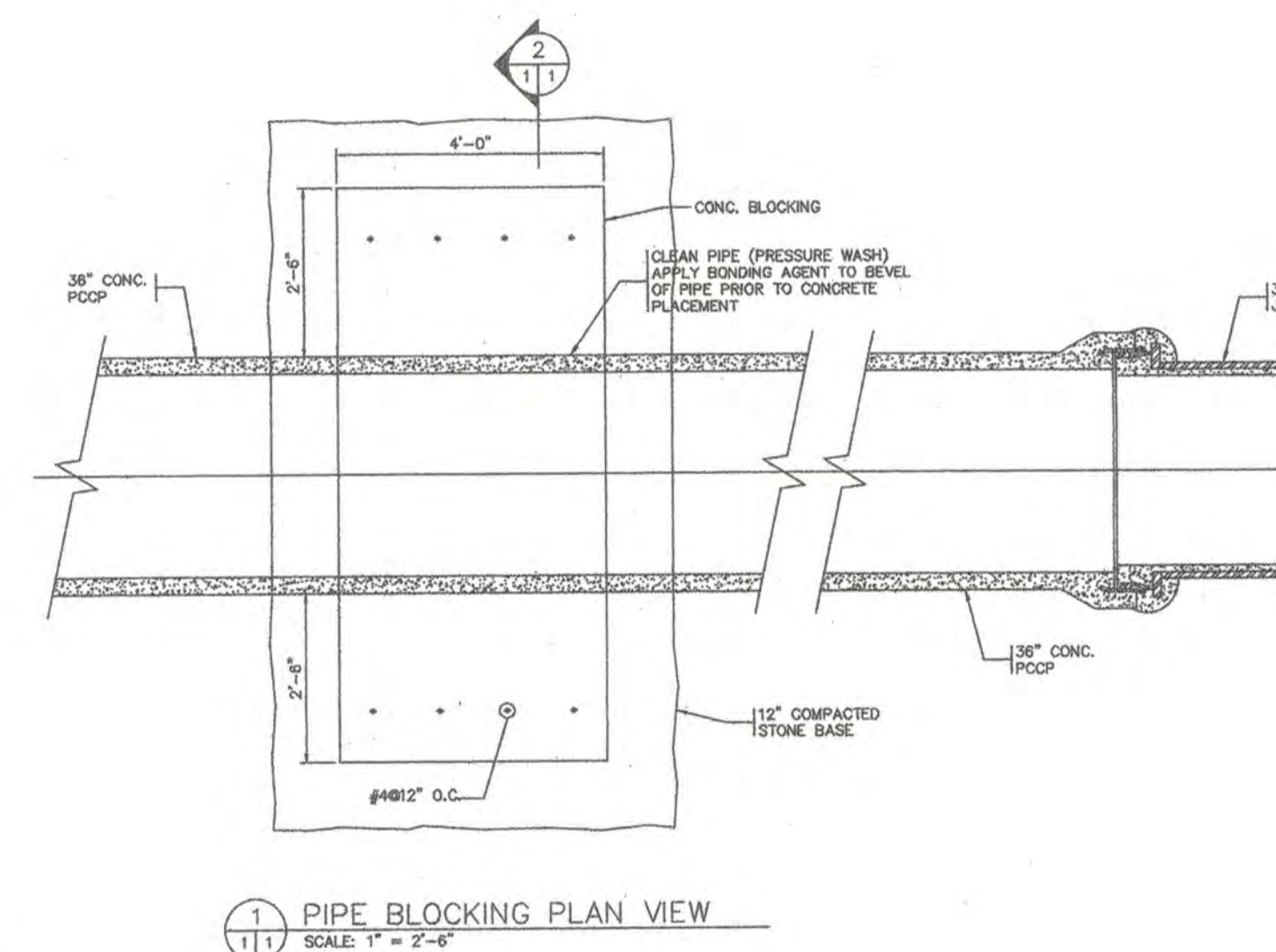
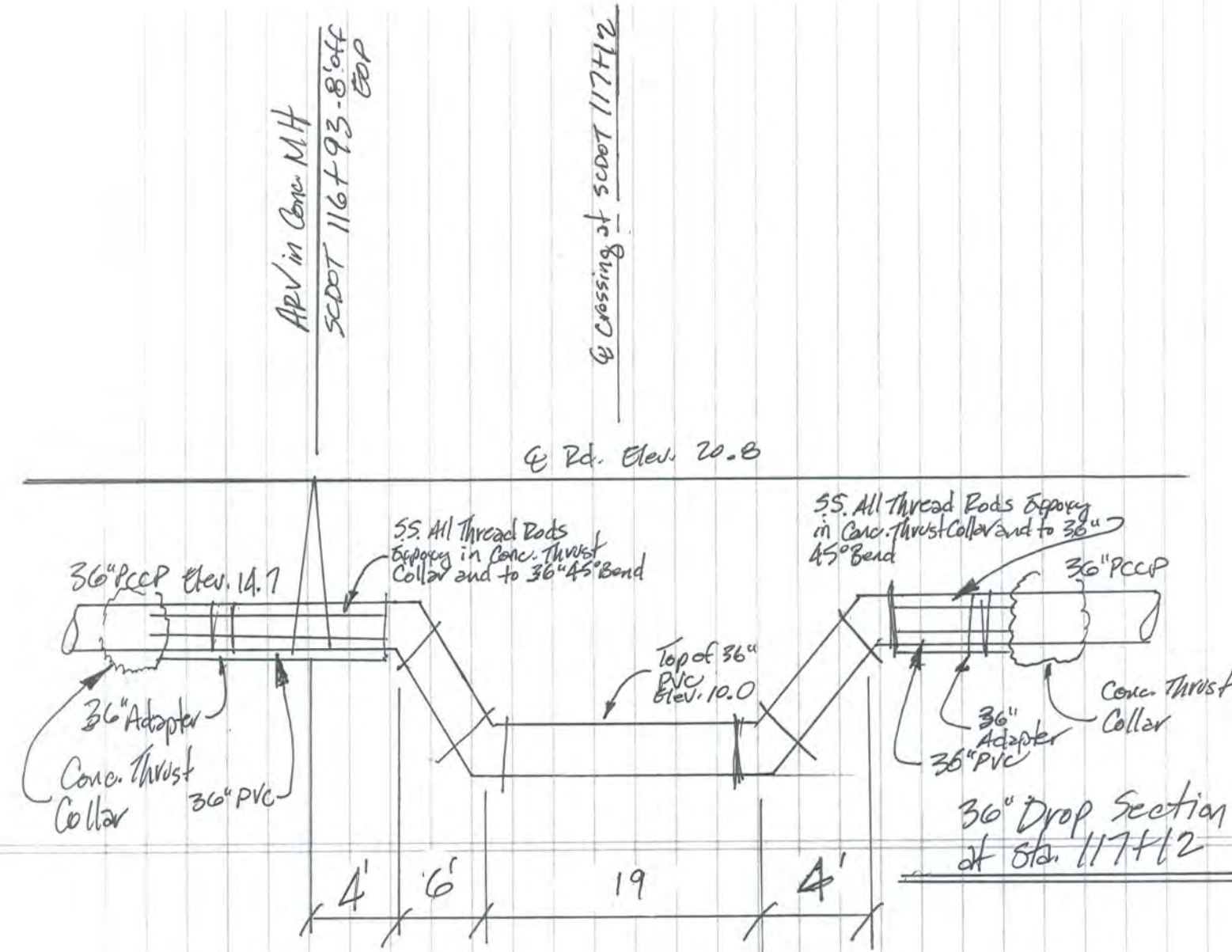
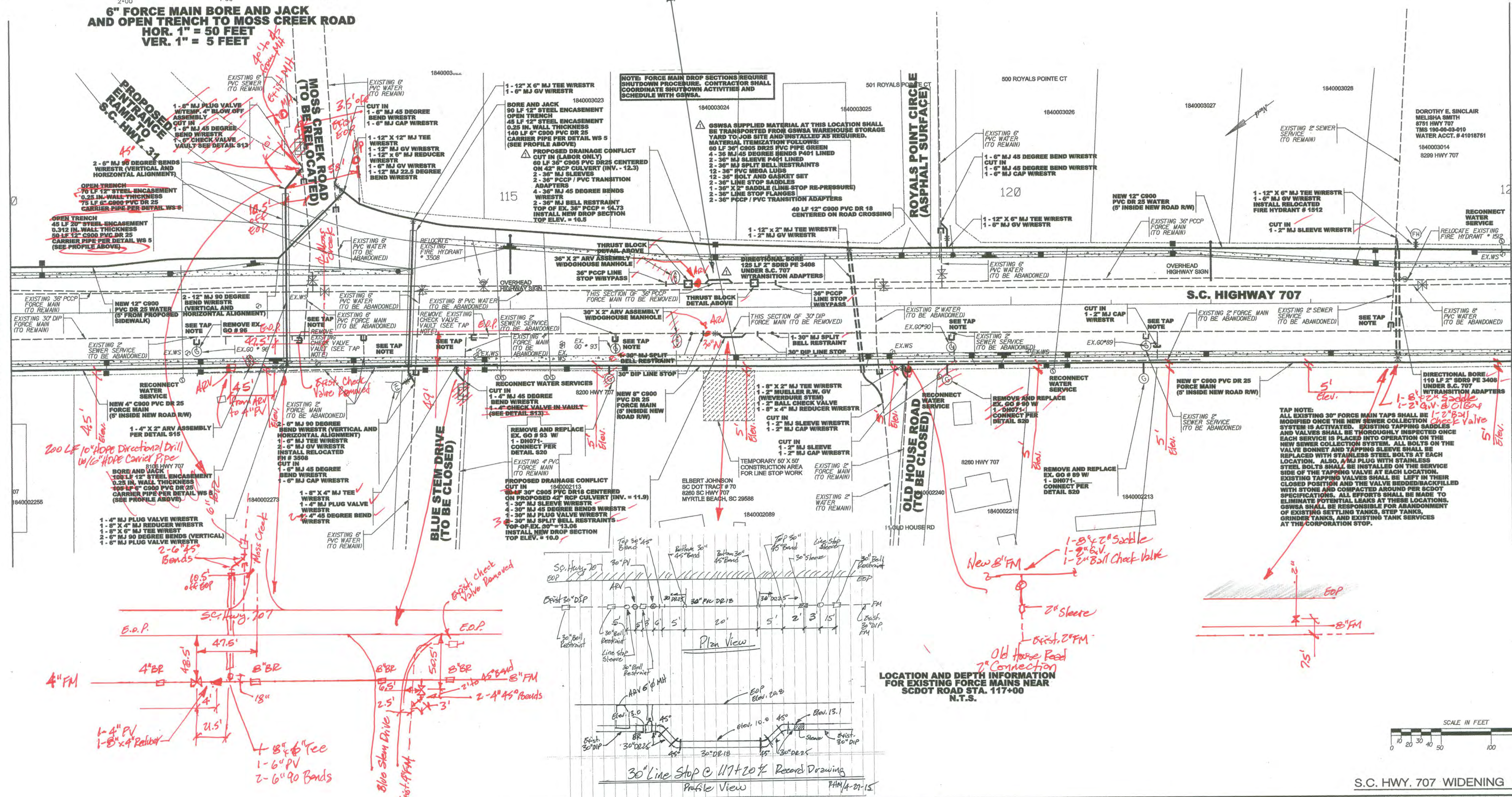
(803) 343-3400 (TOLL FREE)
(803) 343-3400 (FAX)
E-MAIL: GSWBA.COM



1840003004



**6" FORCE MAIN BORE AND JACK
AND OPEN TRENCH TO MOSS CREEK ROAD**
HOR. 1" = 50 FEET
VER. 1" = 5 FEET

SEE SHEET # 12
FOR CONTINUATIONSEE SHEET # 14
FOR CONTINUATION

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

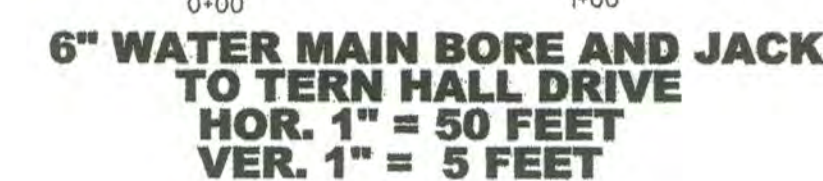
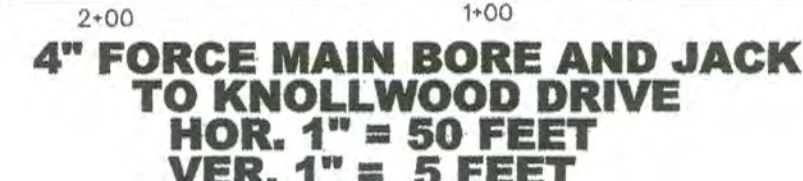
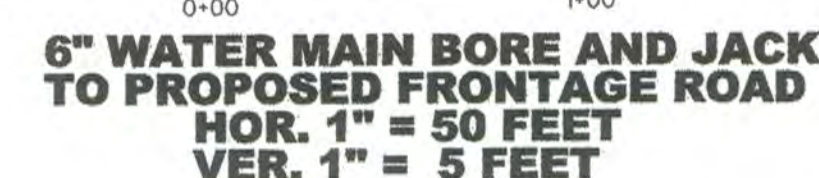


DATE: JULY 2015
SCALE: 1" = 50 FEET
FILENAME: WATERSEWER RELOCATIONS
DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: CHRISTINA S. EVIETT
SHEET 13 OF 36

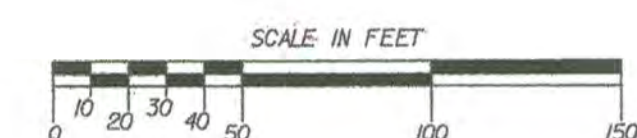
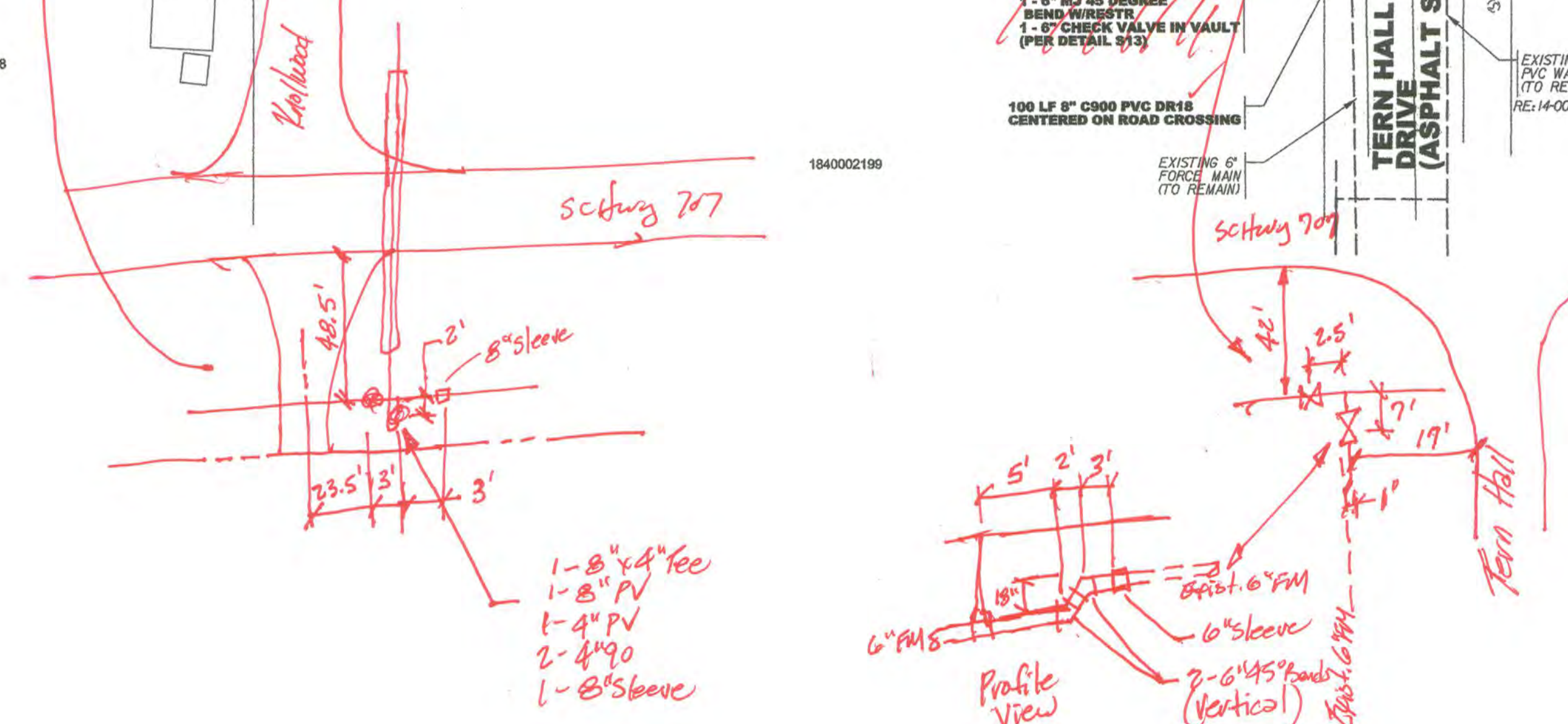
**GRAND STRAND
WATER & SEWER
AUTHORITY**
170 JACKSON BLUFF RD.
P.O. BOX 2386
CONWAY, SC 29524
(843) 347-4441 OR 448-1895
FAX (843) 347-4440 (TDD)
E-MAIL: GSWA@GSA-SC.COM

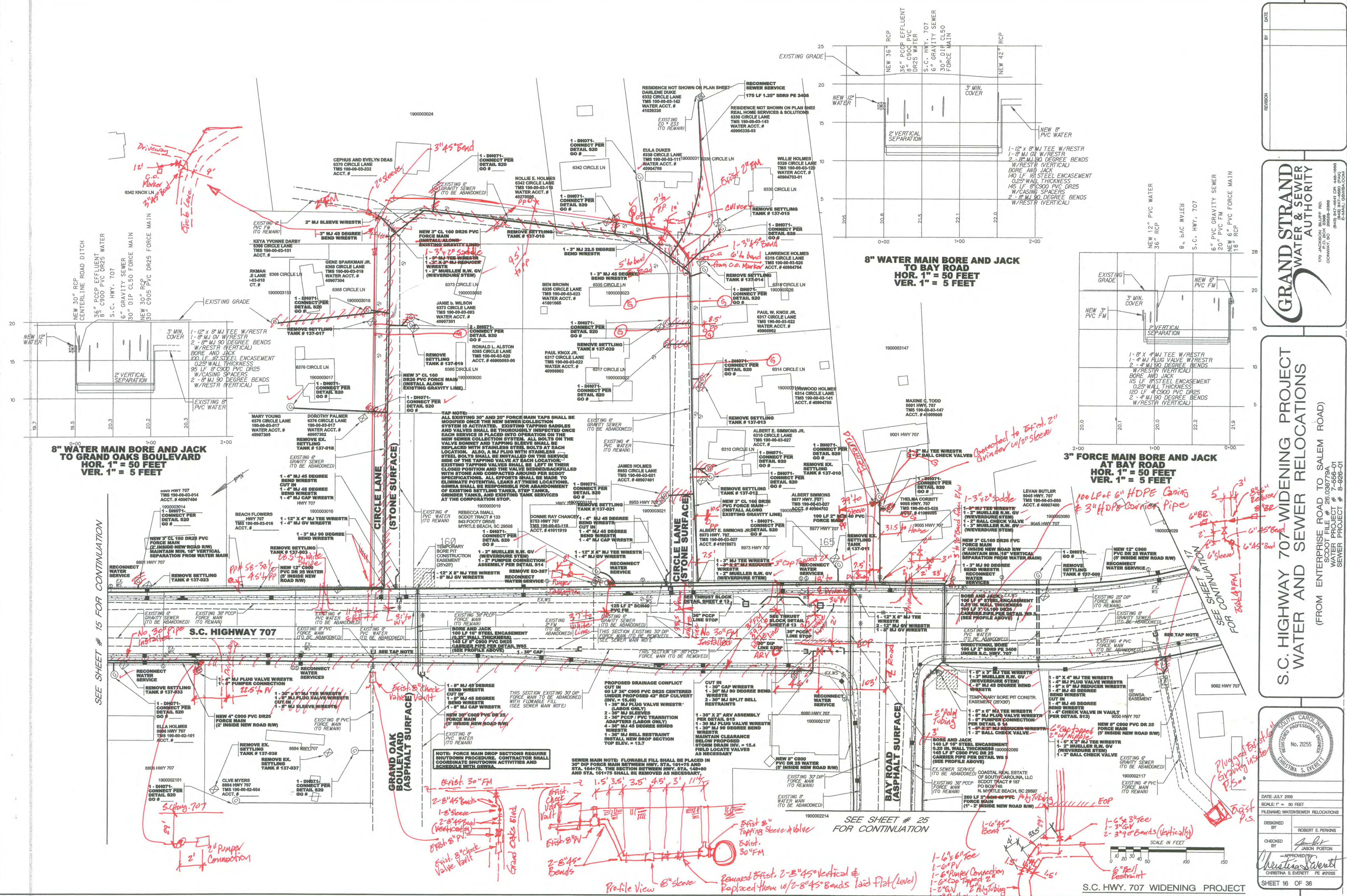
DATE: _____
BY: _____
REVISION: _____

S.C. HWY. 707 WIDENING PROJECT



SEE SHEET # 15
FOR CONTINUATION





REVISION	DATE

GRAND STRAND WATER & SEWER AUTHORITY

170 JACOBSON BLUFF RD.
CONWAY, SC 29528-2888
(843) 347-4641 OR 445-1986
E-MAIL: GSWSA@GMAIL.COM

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

(FROM ENTERPRISE ROAD TO SALEM ROAD)

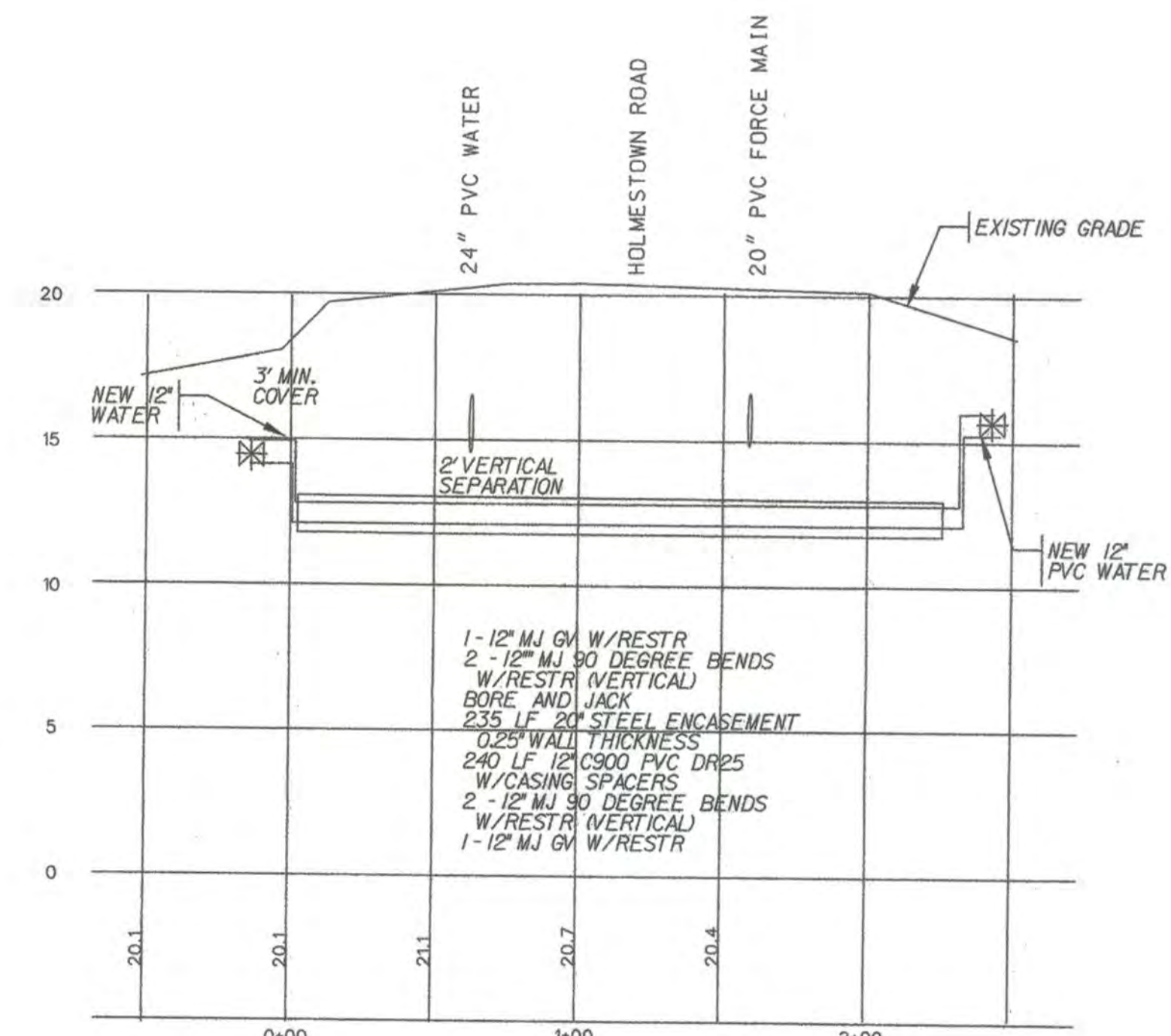
SCDOT FILE # 26.036779A
WATER PROJECT # 7-556-01
SEWER PROJECT # 8-526-01

DATE: JULY 2008
SCALE: 1" = 50 FEET
FILENAME: WATERSEWER RELOCATIONS

DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: [Signature]
APPROVED BY: [Signature]
CHRISTINA S. EVERETT, P.E. #21255

DATE: JULY 2008
SCALE: 1" = 50 FEET
FILENAME: WATERSEWER RELOCATIONS
DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: [Signature]
APPROVED BY: [Signature]
CHRISTINA S. EVERETT, P.E. #21255

SHEET 16 OF 36



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

EXISTING GO-3937
(TO REMAIN)

**CUT IN
1 - 2" MJ SLEEVE
W/RESTR**

DOLLAR GENERAL
11217
9491 HWY. 707
TMS 190-00-03-090
ACCT. # 40909491-01


 195
 EX.W.S.

RECONNECT
 VALERIE WRIGHT
 9497 HWY. 707
 TMS 190-00-03-098
 ACCT. #41019503

EXISTING 2' AM

1 - 12" X 6" MJ TEE W/RESTR
1 - 6" MJ GV W/RESTR
RELOCATE FR # 3776

9503 HWY 707

EXISTING
GO # 4341
(TO REMAIN)

**BORE AND JACK
255 LF 20" STEEL ENCASEMENT
0.312 IN. WALL THICKNESS
260 LF 12" C900 PVC DR 25
CARRIER PIPE PER DETAIL WS 5
(SEE PROFILE ABOVE)**

ENDING RELOO

5779A
556-01
926-01

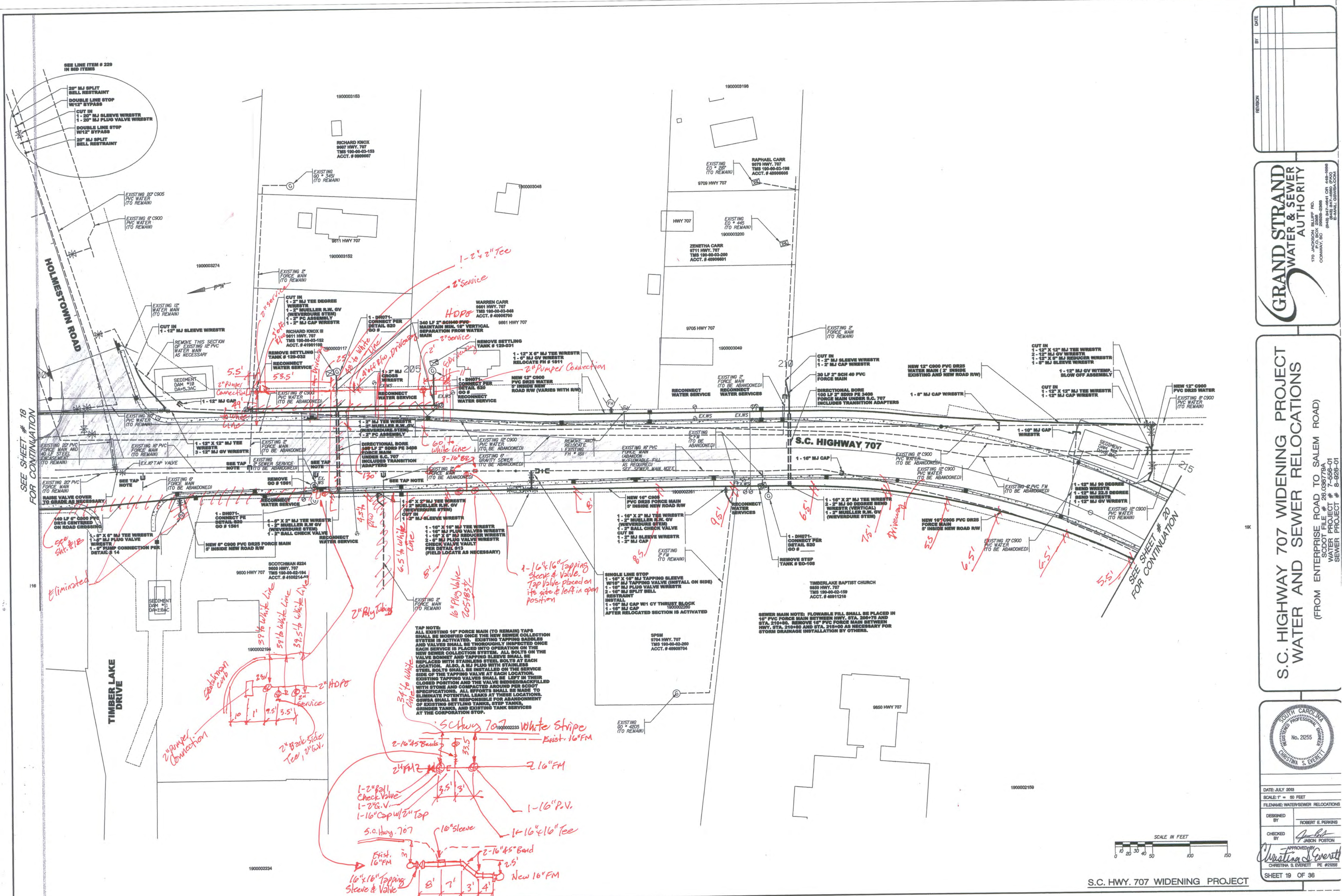
S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS

(FROM ENTERPRISE ROAD TO SALEM ROAD)
SCDOT FILE # 26.036779A
WATER PROJECT # 7-856-01

DATE: JULY 2013	
SCALE: 1" = 50 FEET	
PROJECT NAME: WATER/SEWER RELOCATION	
DESIGNED BY	ROBERT E. PERKINS
CHECKED BY	<i>Jason Poston</i> JASON POSTON
APPROVED BY: <i>Christina S. Everett</i> CHRISTINA S. EVERETT PE #21255	

EET 18 OF 36

S.C. HWY. 707 WIDENING PROJECT



REVISION	DATE

GRAND STRAND
WATER & SEWER
AUTHORITY

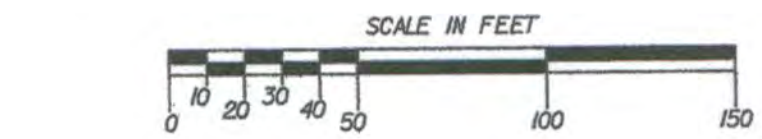
170 JACKSON BLUFF RD.
PO BOX 2585
CONWAY SC 29526-0258
(843) 397-4660 FAX
(843) 397-4660 FAX
E-MAIL: GSA@GSA.COM

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

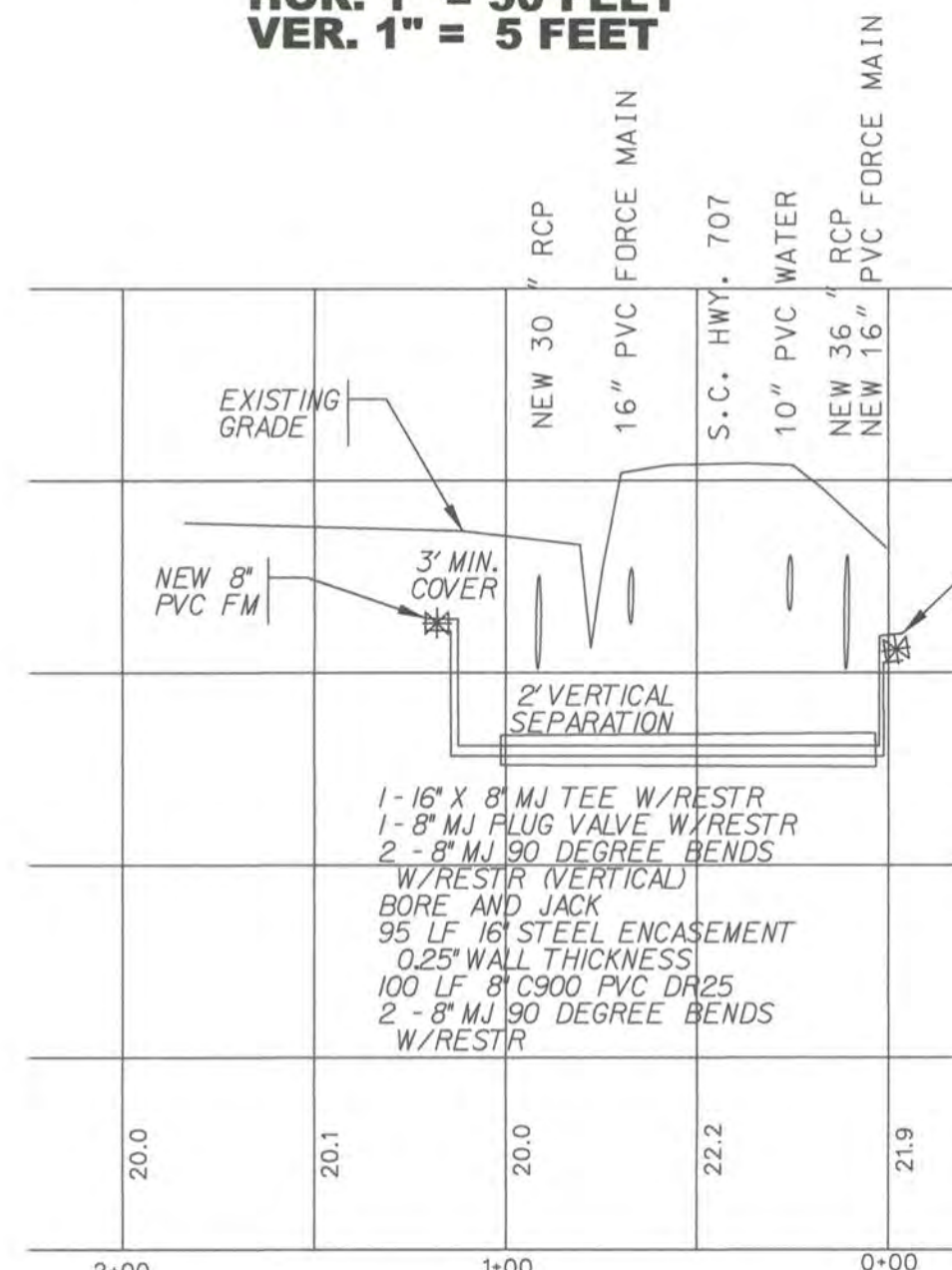
SCDOT FILE # 26-036779A
WATER PROJECT # 7-556-01
SEWER PROJECT # 8-928-01



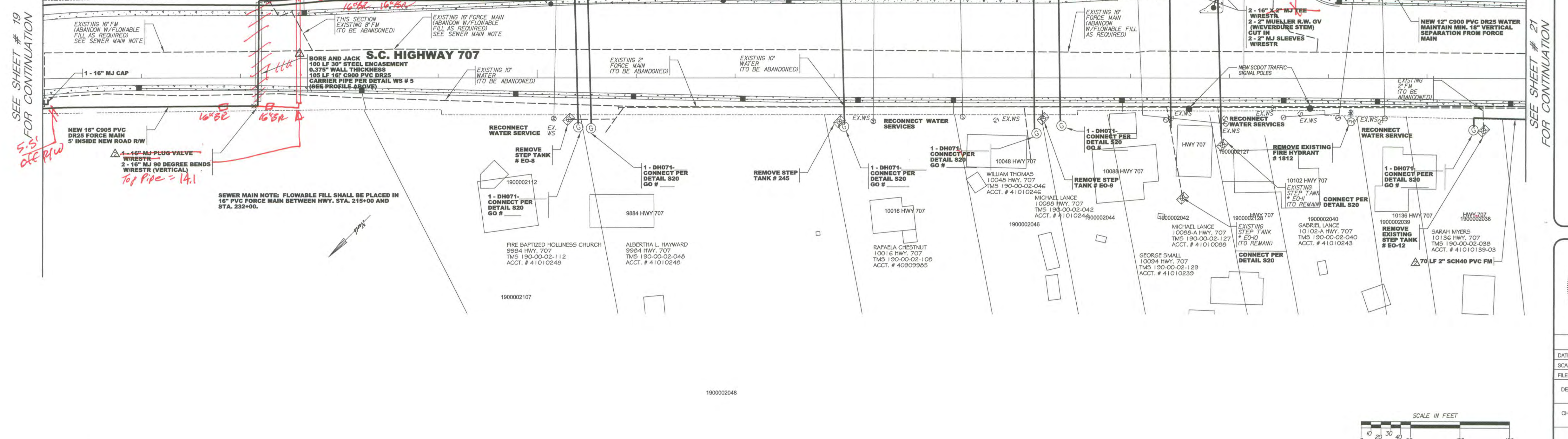
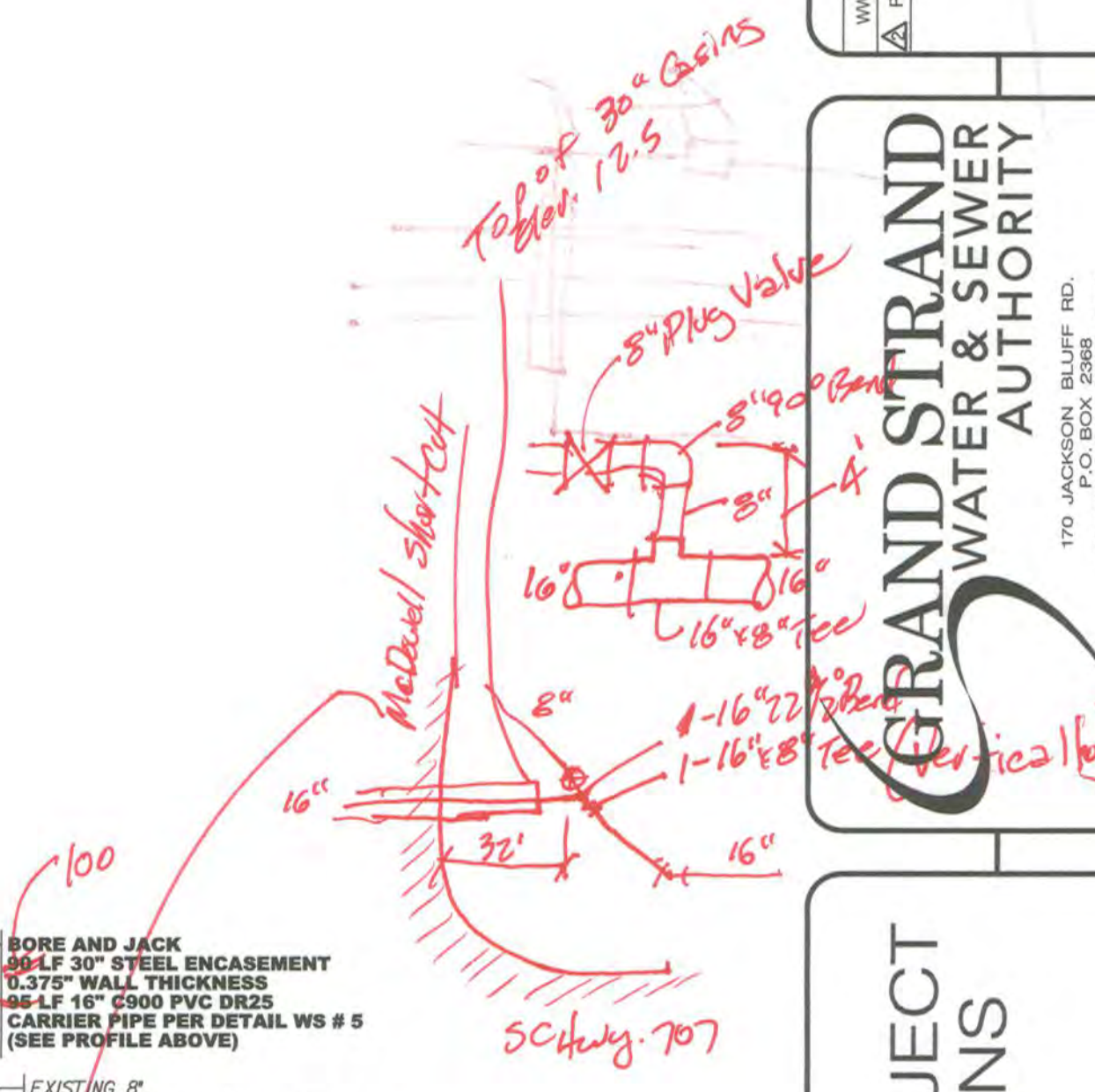
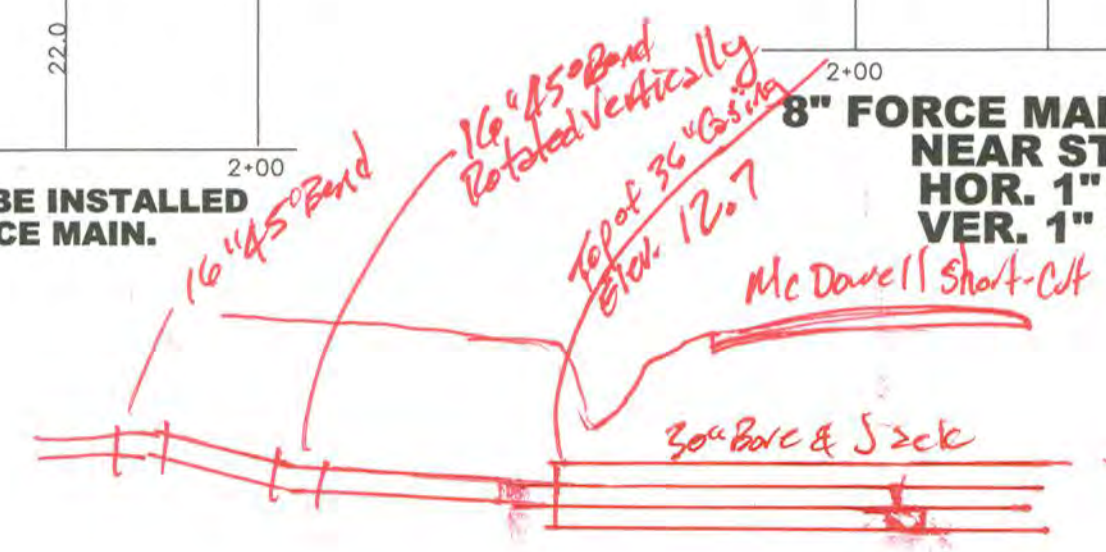
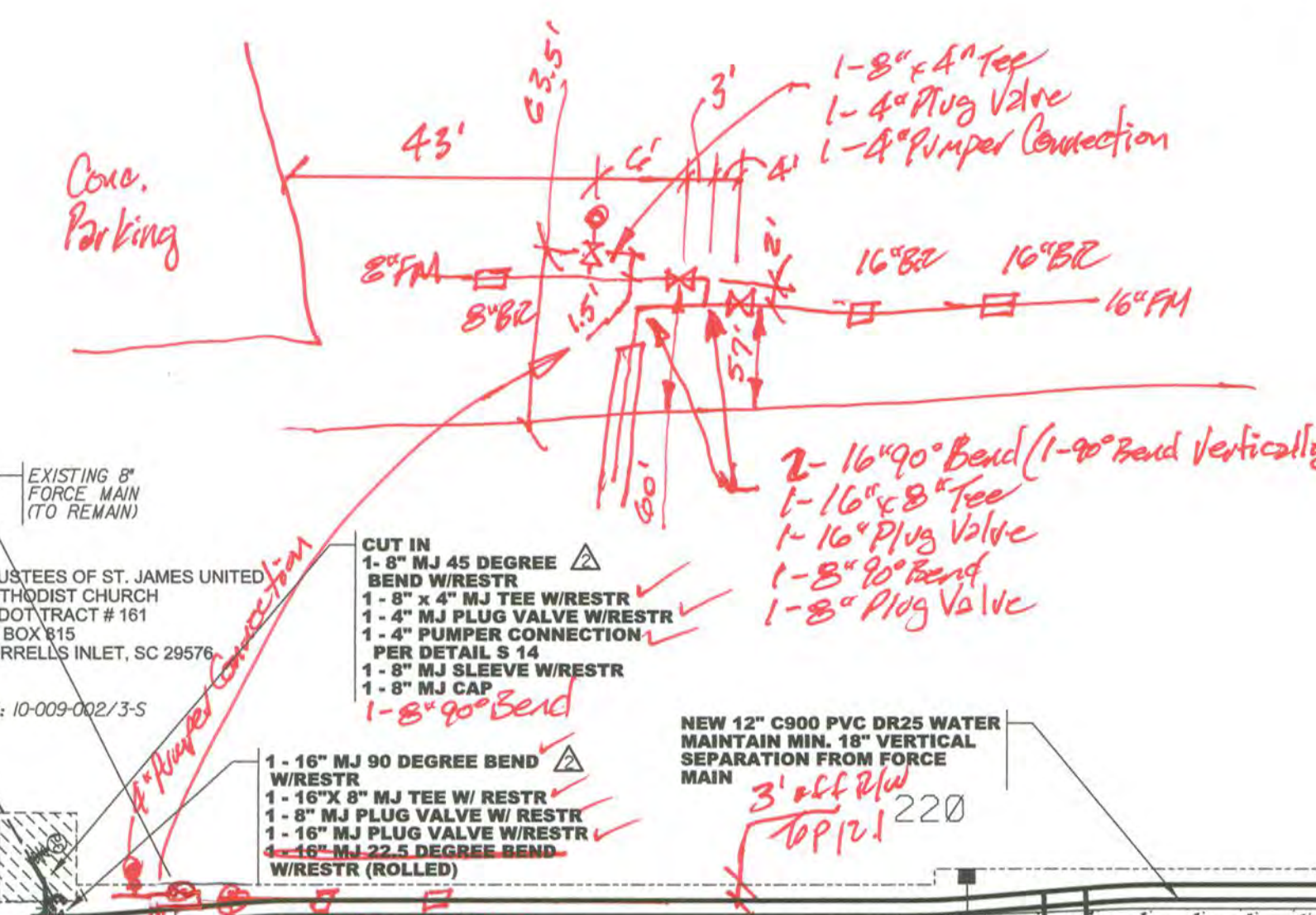
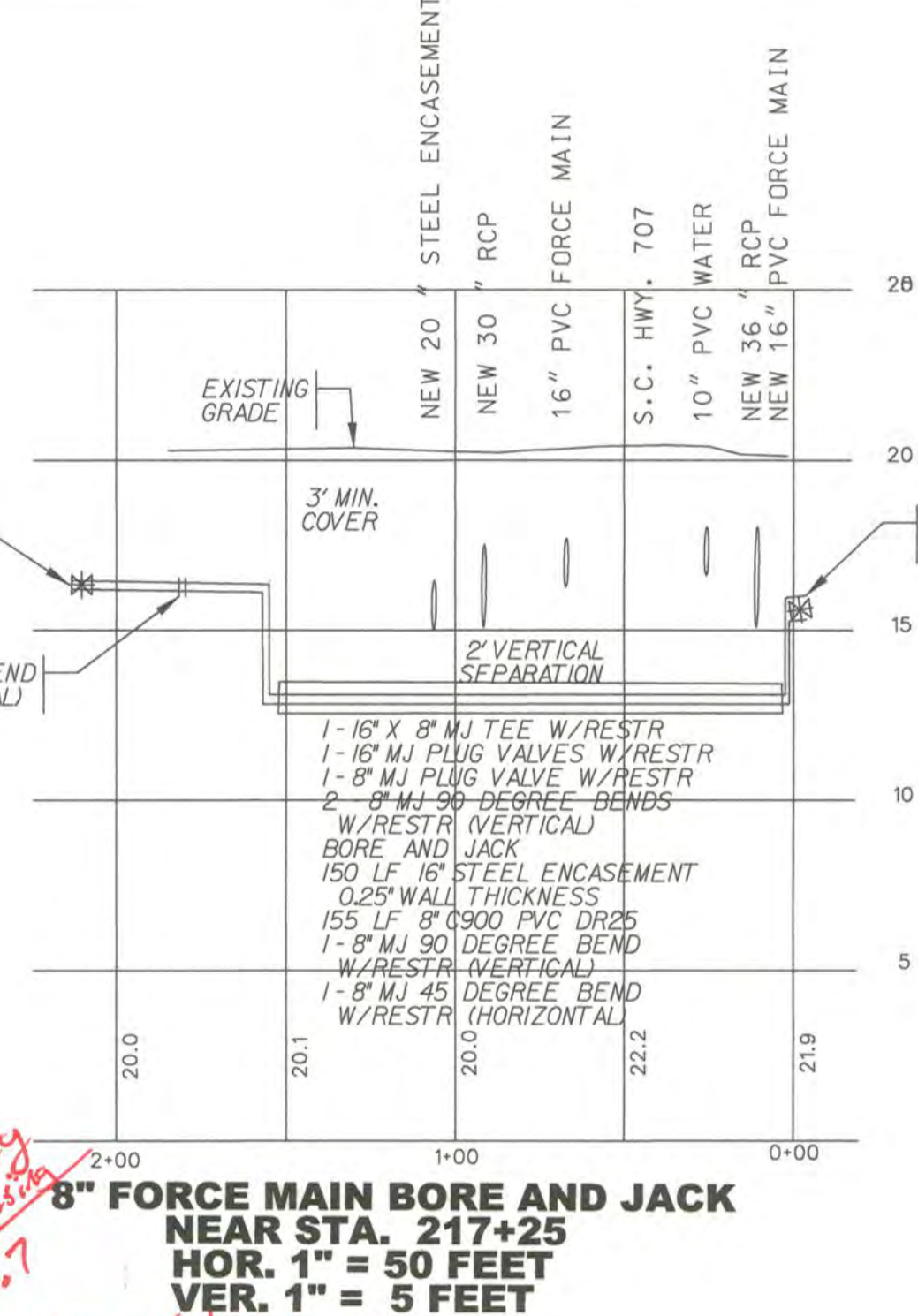
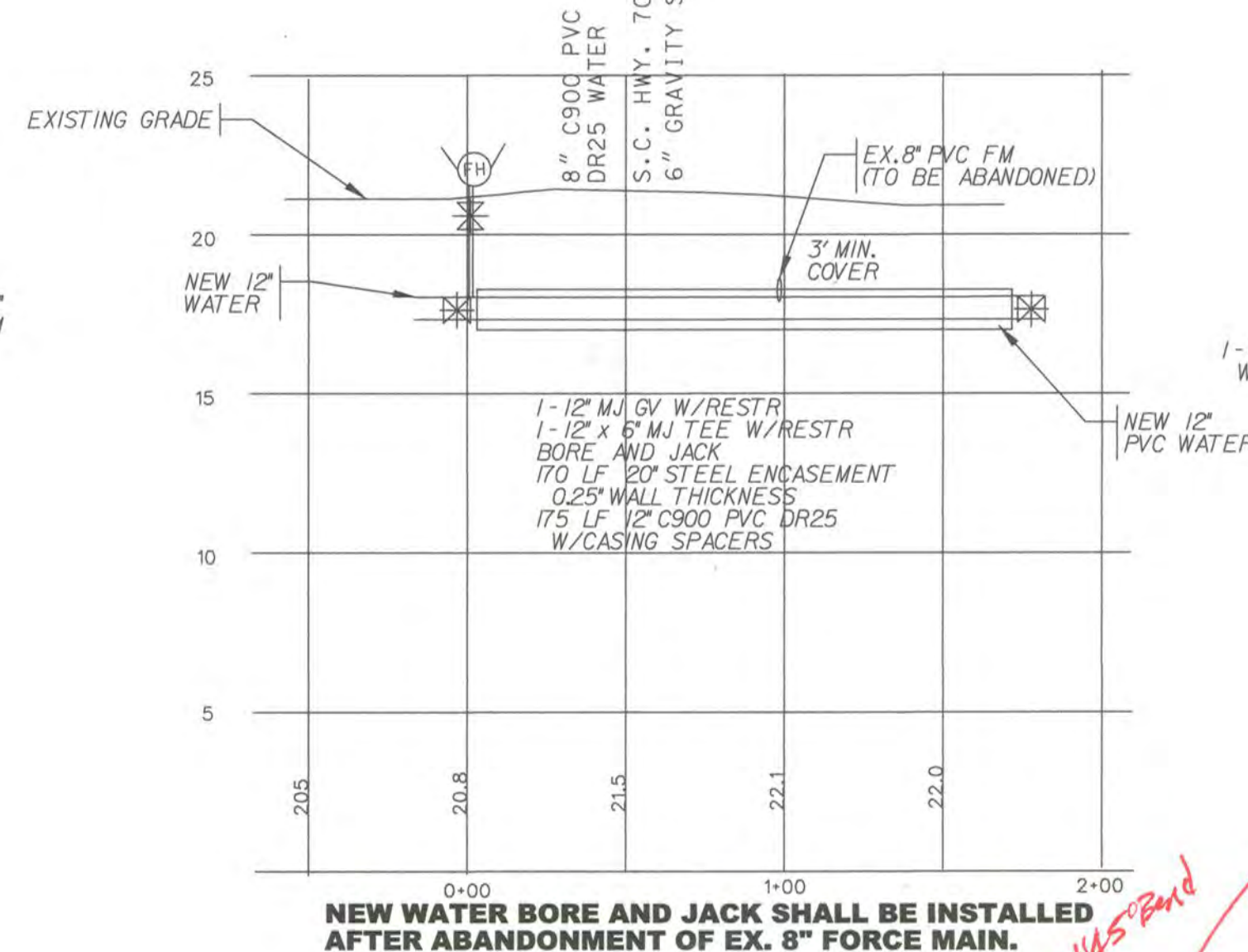
DATE: JULY 2018	DESIGNED BY: ROBERT E. PERKINS
SCALE: 1" = 80 FEET	CHECKED BY: JASON POSTON
FILENAME: WATER/SEWER RELOCATIONS	APPROVED BY: Christina S. Everett
SHEET 19 OF 36	



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



REVISION
DATE
BY
APP
DATE
REVISION
DATE
BY
APP
DATE

TRANSMISSION COLLECT COMBINED
REVISED LOCATION OF 16" FM

GRAND STRAND
WATER & SEWER
AUTHORITY

170 JACOBSON BLUFF RD.
CONWAY, SC 29566-2098
(843) 347-4641 OR 448-1998
E-MAIL: GSWA@GSA.COM

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

No. 2255

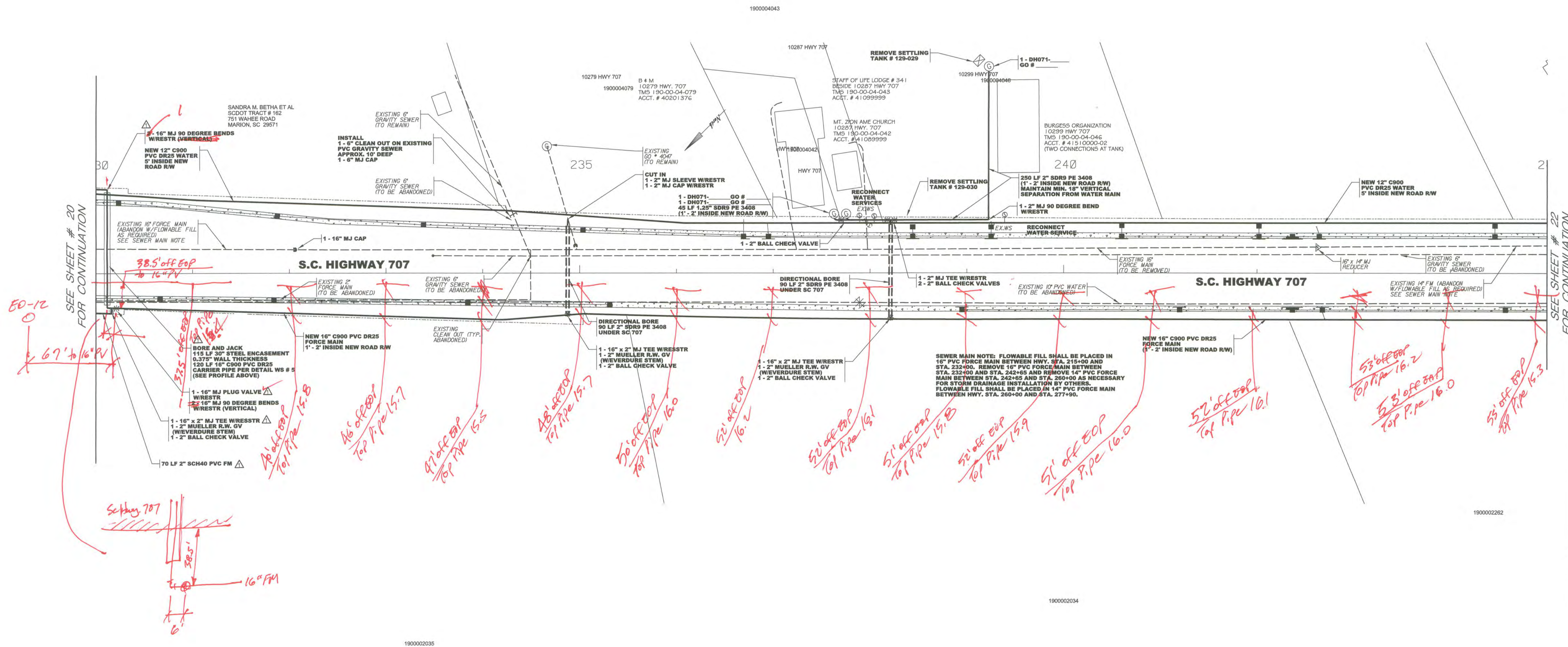
DATE: JULY 2013
SCALE: 1" = 50 FEET
FILENAME: WATER/SEWER RELOCATIONS

DESIGNED BY
ROBERT E. PERKINS

CHECKED BY
JASON POSTON

APPROVED BY
CHRISTINA S. EVERETT PE #21255

SHEET 20 OF 36



REVISION	DATE
BY	DATE
REVISION	DATE
BY	DATE

GRAND STRAND WATER & SEWER AUTHORITY

170 JACKSON BLUFF RD.
CONWAY, SC 29526-2889
(843) 347-4641 OR 448-1686
E-MAIL: GSWA@GMAIL.COM

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

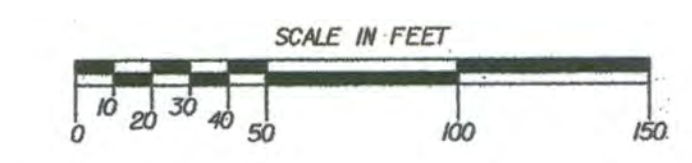
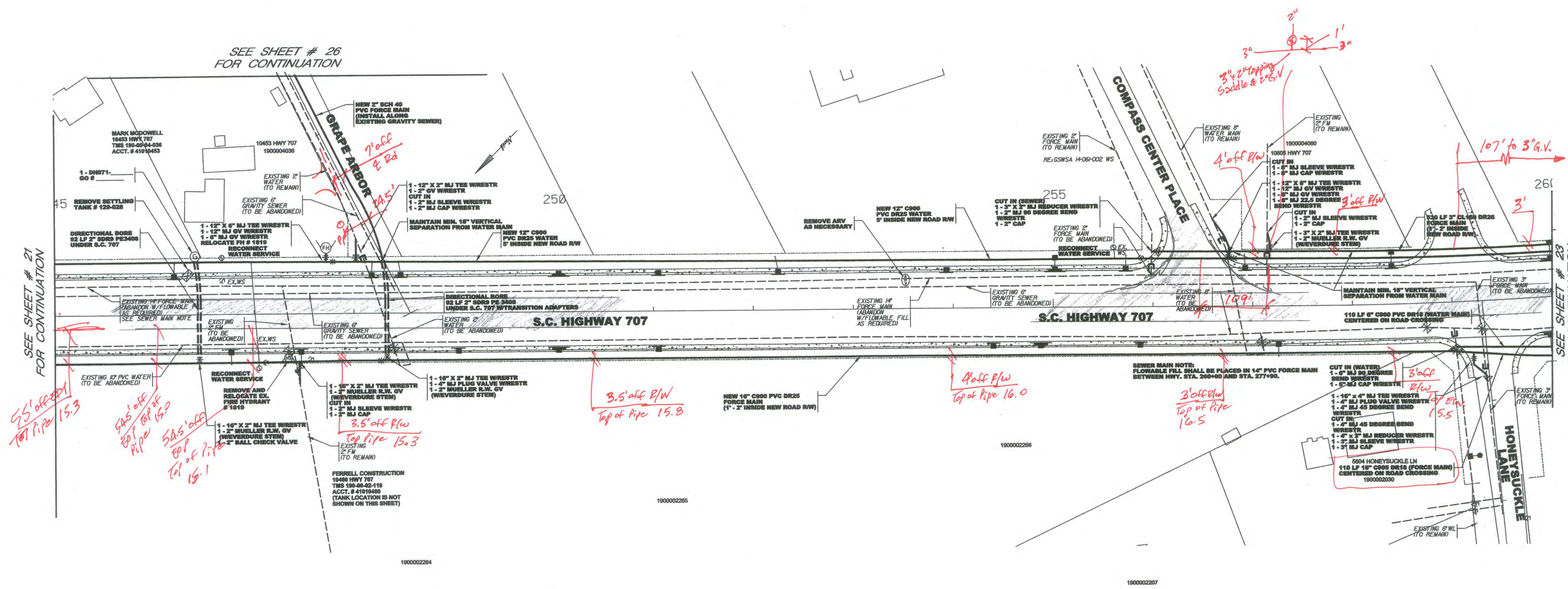
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WATER PROJECT # 7-556-01
SEWER PROJECT # 8-926-01

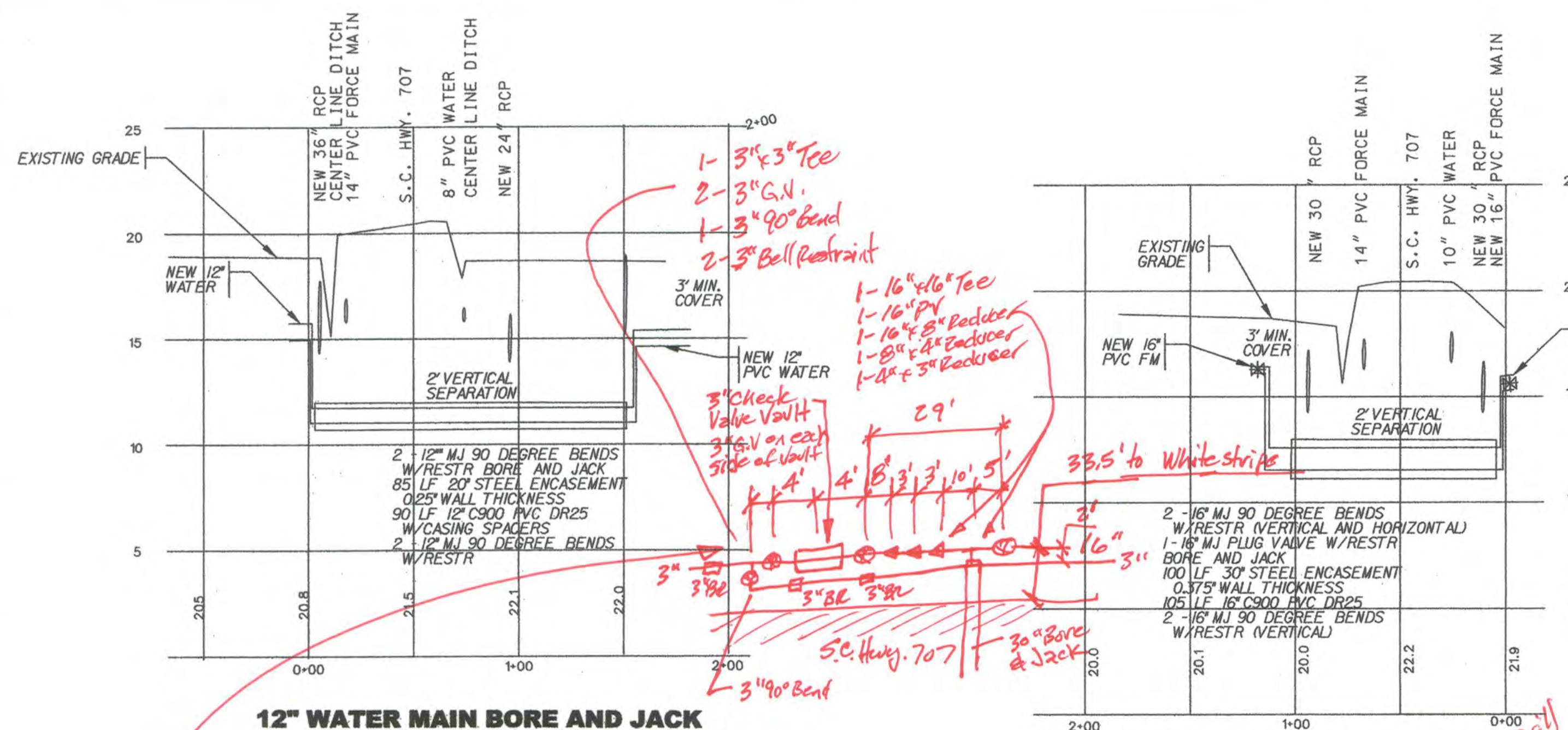
DATE: JULY 2013
SCALE: 1" = 50 FEET
FILENAME: WATER/SEWER RELOCATIONS

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

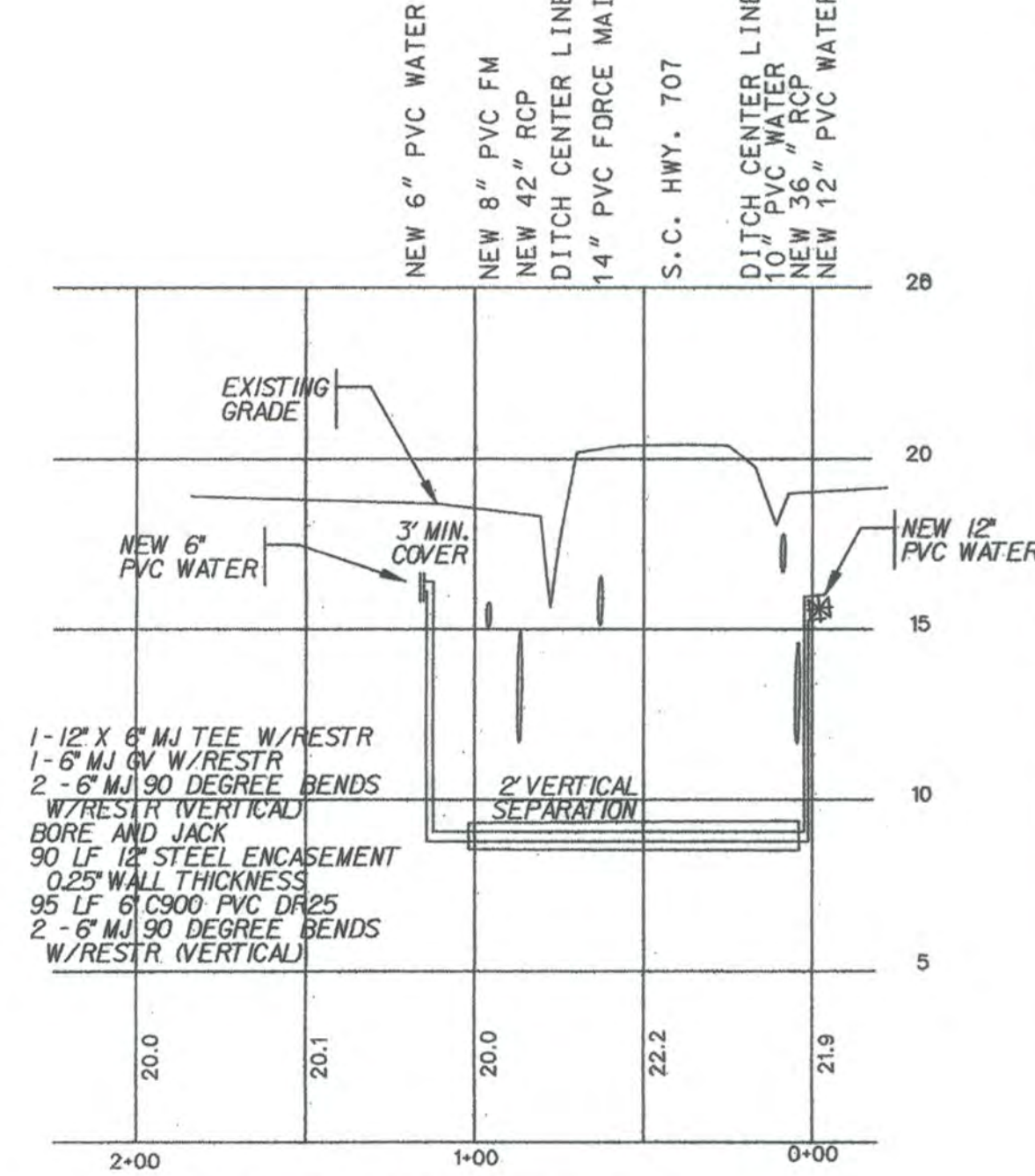
CHRISTINA S. EVERETT PE #21255
SHEET 21 OF 36

1900004005

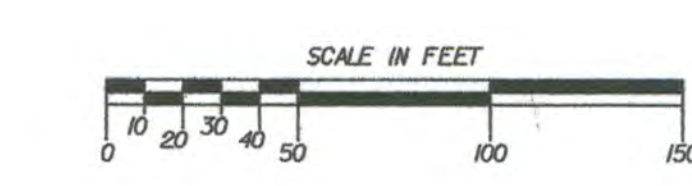
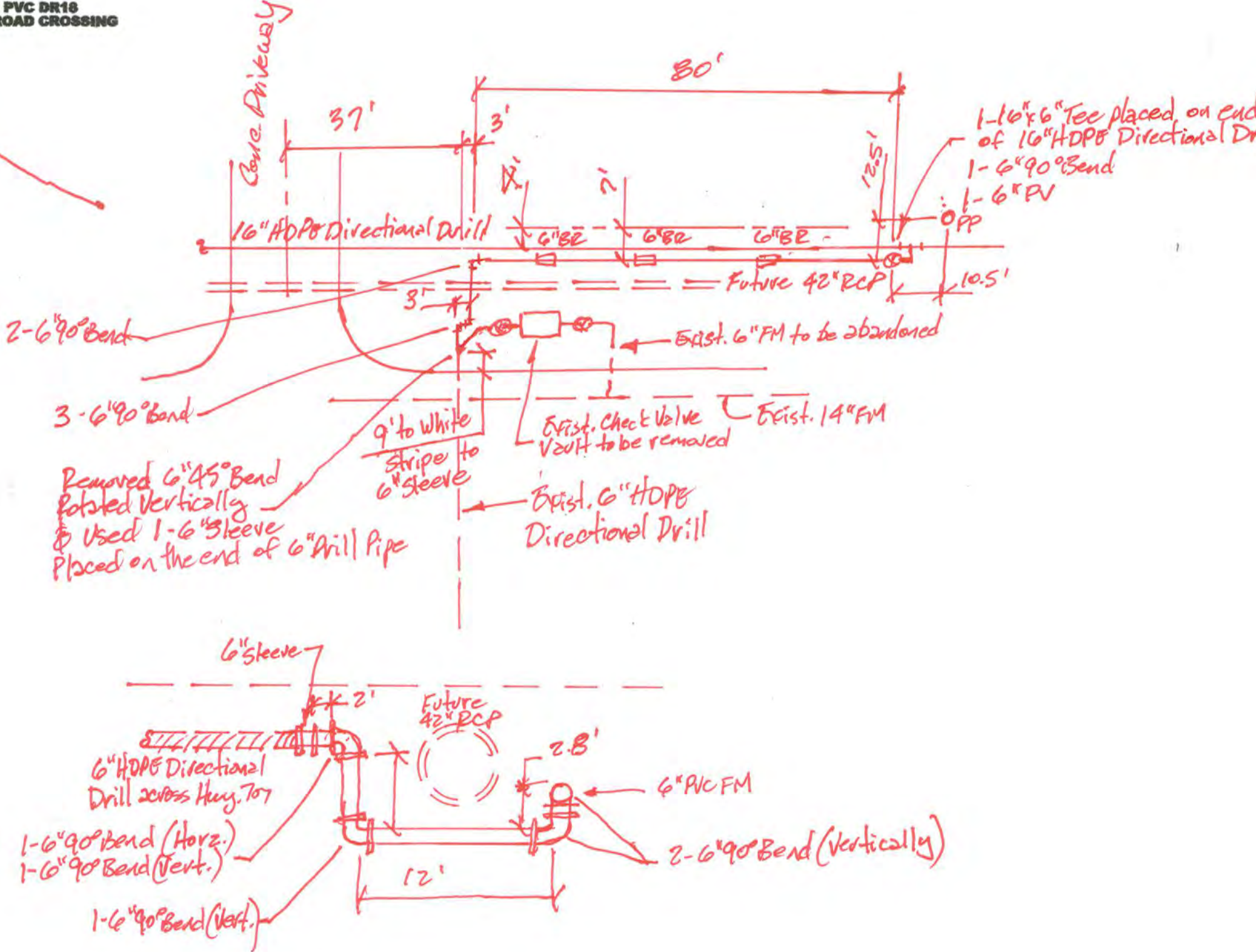
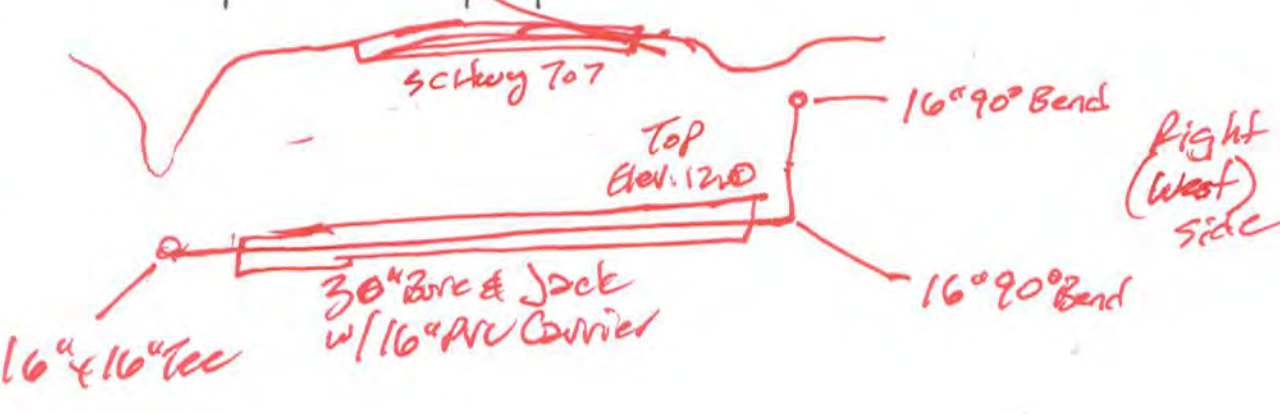
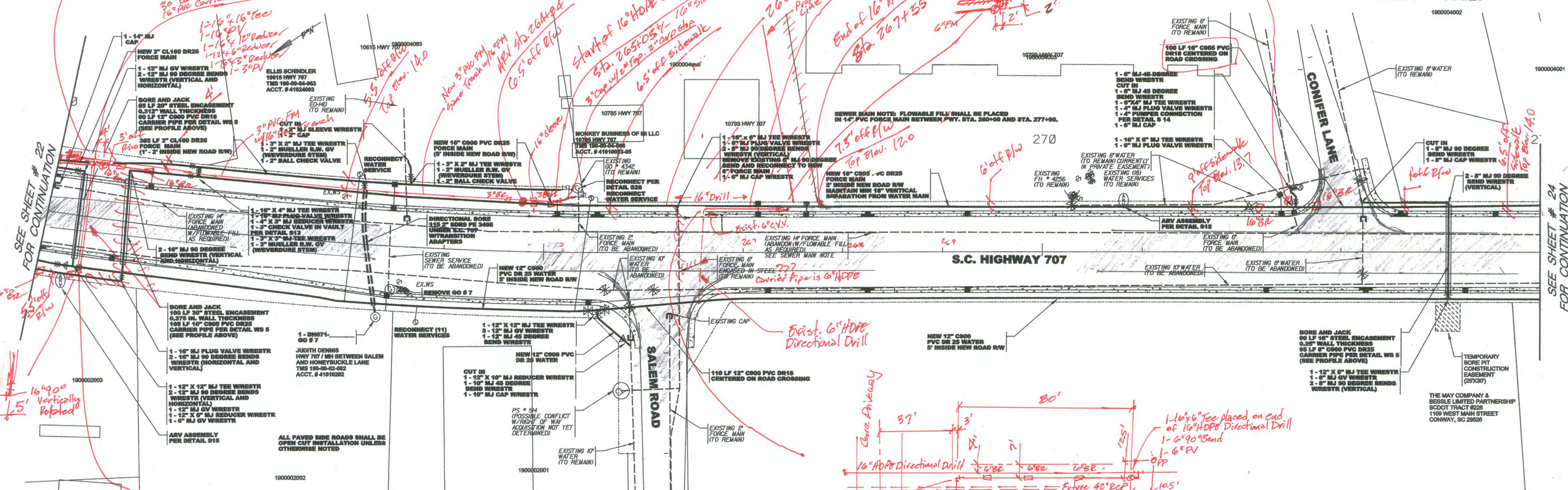




16\"/>



8\"/>



GRAND STRAND WATER & SEWER AUTHORITY

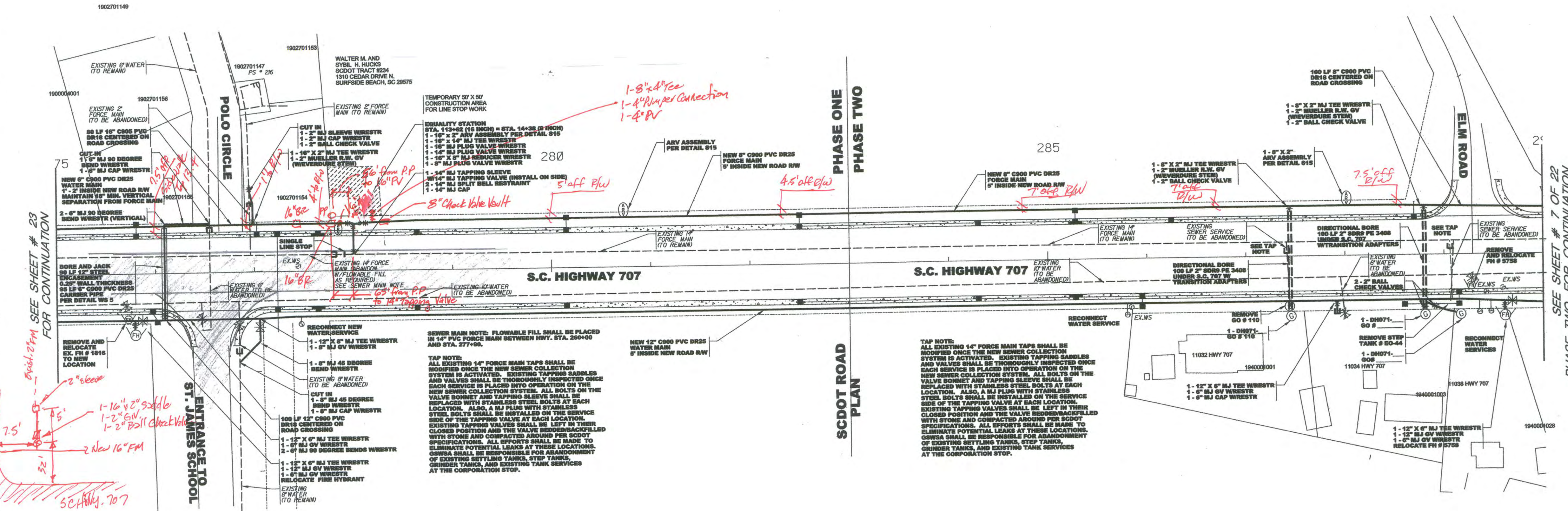
170 JACKSON BLUFF RD.
CONWAY, SC 29526-2249
(843) 847-4541 OR 448-1686
FAX (843) 847-4540

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 # 8-928-01

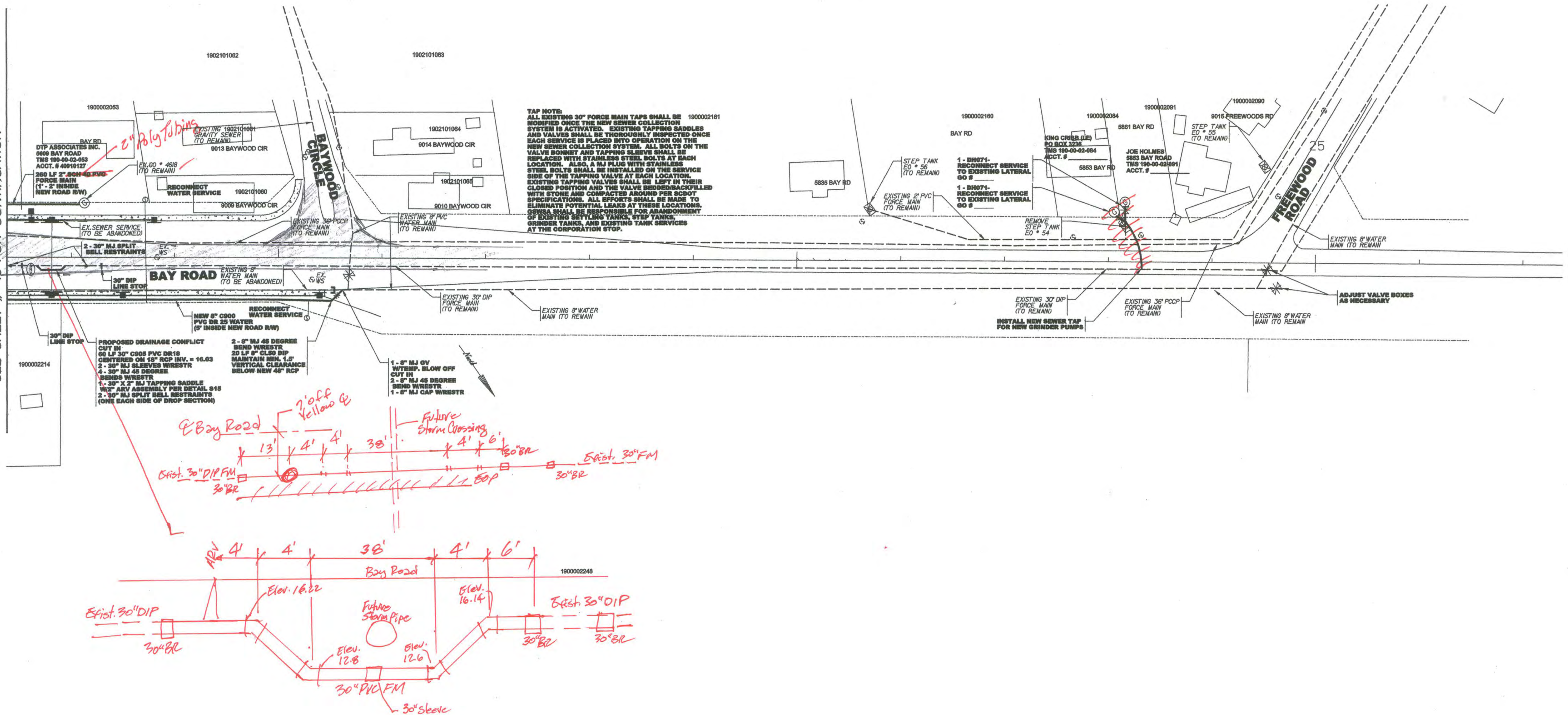
DATE: JULY 2018
 SCALE: 1" = 50 FEET
 FILENAME: WATERSEWER RELOCATIONS

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

SHEET 23 OF 36



SEE SHEET # 16 FOR CONTINUATION



PROPOSED DRAINAGE CONFLICT
CUT IN
60 LP 30\"/>

2 - 8\"/>

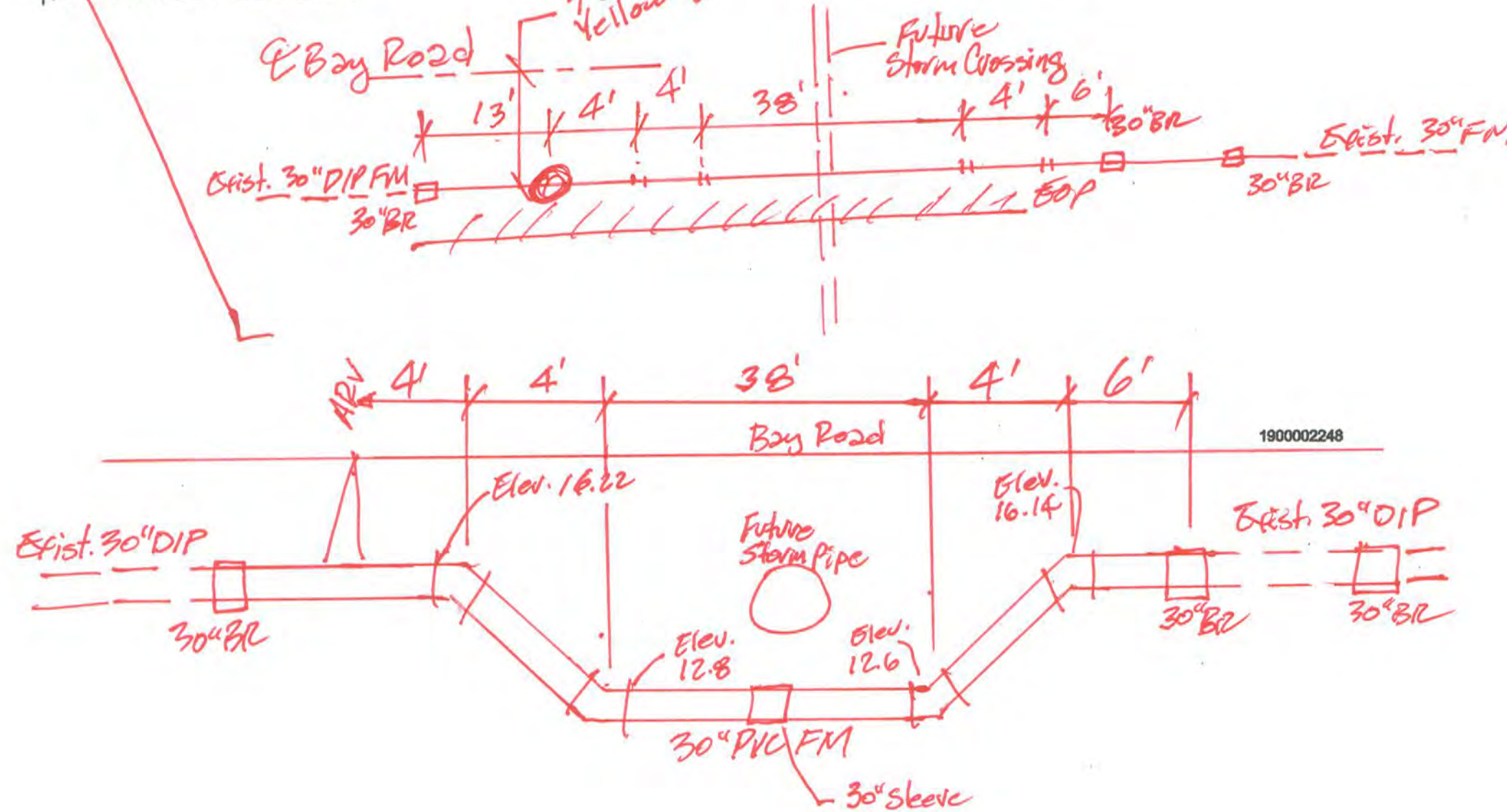
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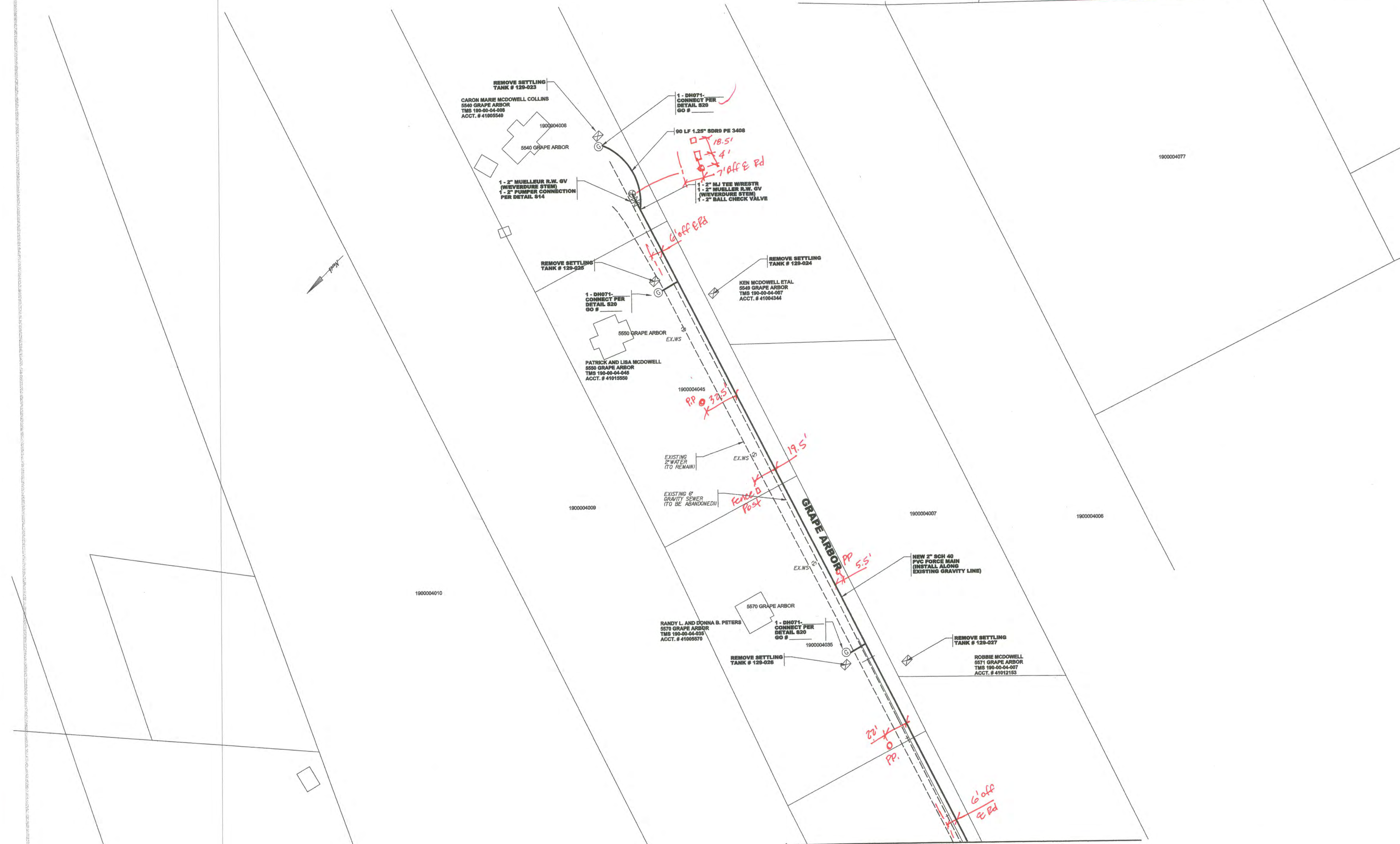
TAP NOTE:
ALL EXISTING 30\"/>

1 - DH074-
RECONNECT SERVICE
TO EXISTING LATERAL
60 #

1 - DH074-
RECONNECT SERVICE
TO EXISTING LATERAL
60 #

ADJUST VALVE BOXES
AS NECESSARY





SEE SHEET # 22
FOR CONTINUATION



REVISION	BY	DATE

GRAND STRAND
WATER & SEWER
AUTHORITY

170 JACKSON BLUFF RD.
CONWAY, SC 29528-2388
(843) 947-4641 OR (843) 947-4642
FAX: (843) 947-4643
E-MAIL: GSWA@GSA.COM

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

SCDOT FILE # 28-036770A
WATER PROJECT # 7-558-01
SEWER PROJECT # 8-828-01

SOUTH CAROLINA

REGISTERED PROFESSIONAL ENGINEER

No. 21255

CHRISTINA S. EVERETT

DATE: JULY 2018

SCALE: 1" = 50 FEET

FILENAME: WATER/SEWER RELOCATIONS

DESIGNED BY

ROBERT E. PERKINS

CHECKED BY

J. Poston
JASON POSTON

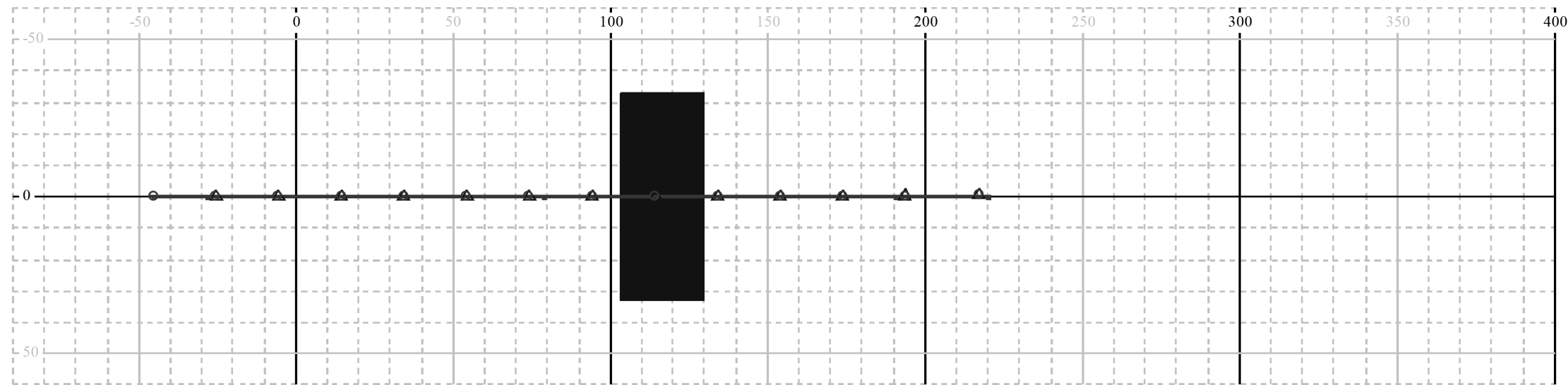
APPROVED BY

Christina S. Everett
CHRISTINA S. EVERETT PE #21255

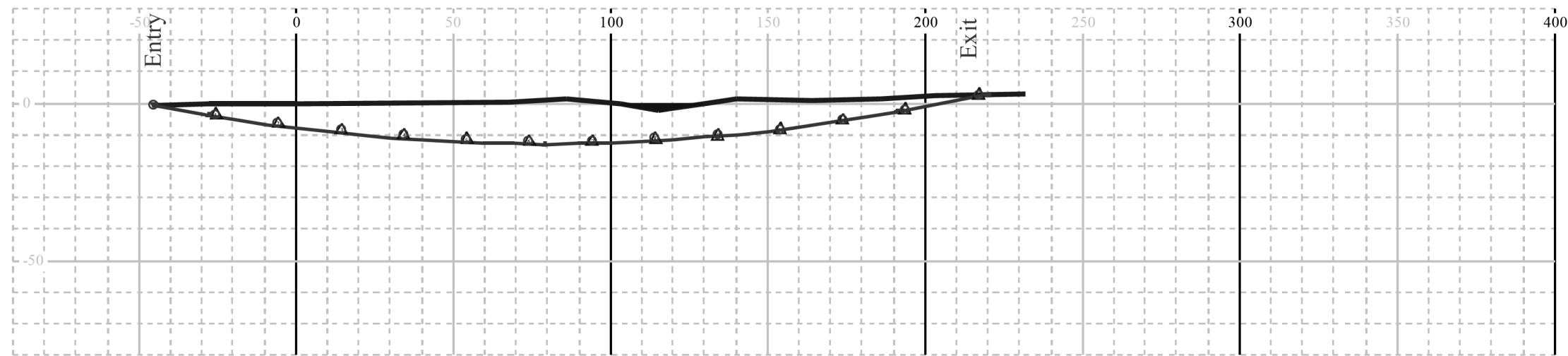
SHEET 26

OF 36

Plan



Profile

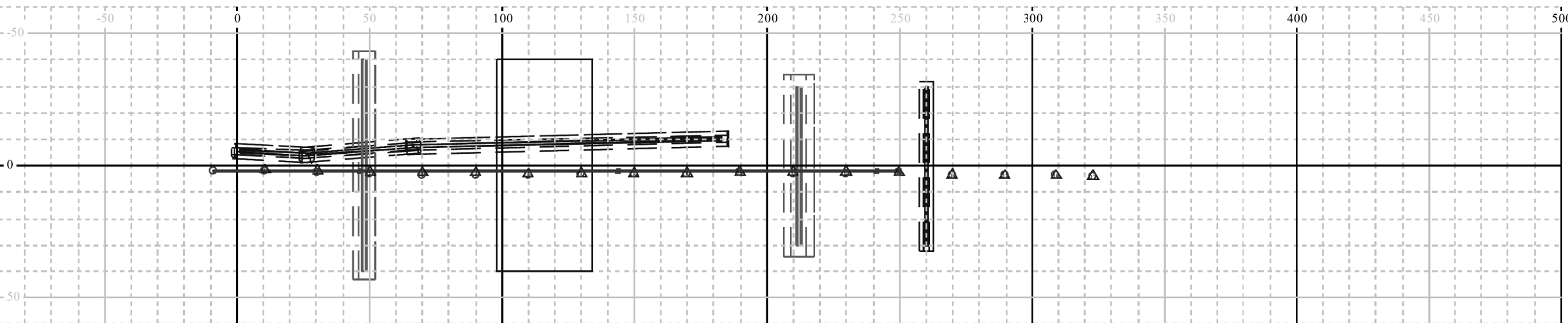


RH Moore	
Project Murrells Inlet SC Project started on Aug 13, 2014 Project completed on Aug 13, 2014	Scale X axis: 1 in = 50.0 ft Y axis: 1 in = 50.0 ft Z axis: 1 in = 50.0 ft
Proposed bore - 2D Bore Plan Bore Plan MD of proposed bore = 267.4 ft Away of proposed bore = 265.5 ft Line Az of proposed bore = 0.0°	As-drilled bore - 4460-Murrells Inlet 2 Bore started on Aug 13, 2014 Bore completed on Aug 13, 2014 Directional data ☐ Tracking data ☒
HDPE THIS DRAWING PROVIDED BY : Ranger Field Services OPERATOR(S) FOR THIS JOB : John Etheridge THIS DRAWING IS BASED ON INFORMATION PROVIDED BY : RH Moore	

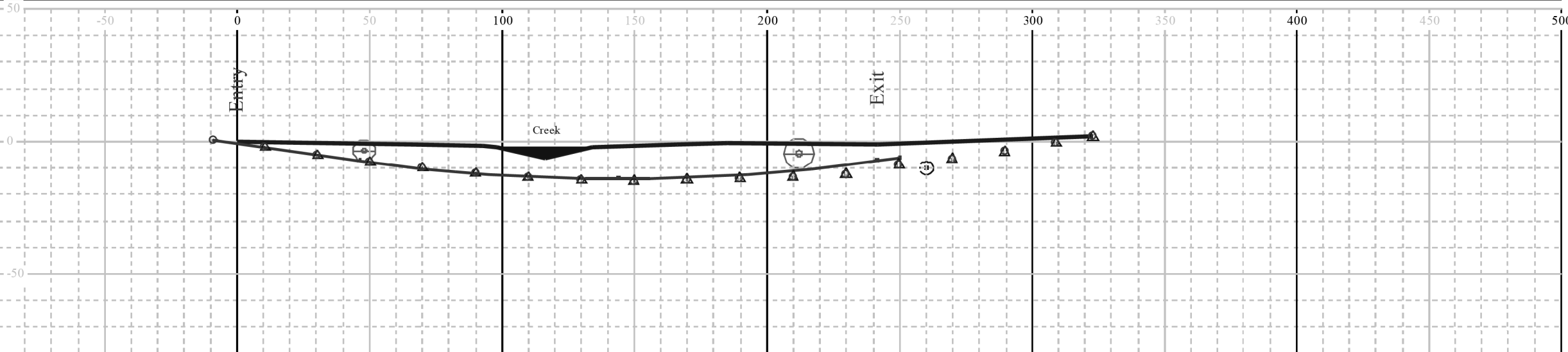
TrueGyde Systems : Directional Data Report															
Job Name	4460-Murrells Inlet 2	Line Az	0.0°	Service Company	Ranger Field Services	Customer	RH Moore	Location	Murrells Inlet SC	Description	Probe S/N	Product Size/Type	30" HDPE	Survey	MD
Tie-In	0.0	Away	-45.0	Lateral	0.0	Elev	-0.6	Incl	80.0	Raw Az	0.0	Pig Az	N/A	Radius	N/A
1	20.0	-25.2	0.0	-3.7	82.0	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1
2	40.0	-5.4	0.0	-6.4	82.0	0.0	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2
3	60.0	14.5	0.0	-8.6	85.0	0.0	0.0	688	8.3	N/A	N/A	N/A	N/A	N/A	3
4	80.0	34.4	0.0	-10.1	86.1	0.0	0.0	838	6.8	N/A	N/A	N/A	N/A	N/A	4
5	100.0	54.3	0.0	-11.5	86.0	0.0	0.0	1011	5.7	N/A	N/A	N/A	N/A	N/A	5
6	120.0	74.3	0.0	-12.3	89.5	0.0	0.0	764	7.5	N/A	N/A	N/A	N/A	N/A	6
7	140.0	94.3	0.0	-12.1	91.8	0.0	0.0	603	9.5	N/A	N/A	N/A	N/A	N/A	7
8	160.0	114.3	0.0	-11.4	92.1	0.0	0.0	564	10.2	N/A	N/A	N/A	N/A	N/A	8
9	180.0	134.3	0.0	-10.3	94.1	0.0	0.0	747	7.7	N/A	N/A	N/A	N/A	N/A	9
10	200.0	154.2	0.0	-8.3	97.1	0.0	0.0	649	8.8	N/A	N/A	N/A	N/A	N/A	10
11	220.0	174.0	-0.1	-5.5	99.4	0.0	359.4	469	12.2	N/A	N/A	N/A	N/A	N/A	11
12	240.0	193.7	-0.3	-2.1	100.0	0.0	359.4	580	9.9	N/A	N/A	N/A	N/A	N/A	12
13	260.0	217.2	-0.6	2.6	102.7	0.0	359.4	651	8.6	N/A	N/A	N/A	N/A	N/A	13

SHEET # 11
SEWER FORCE MAIN
STA. 87+50 TO STA. 90+10
260 LF 34" OD IPS DR17 HDPE UNDER
MILL CREEK

Plan

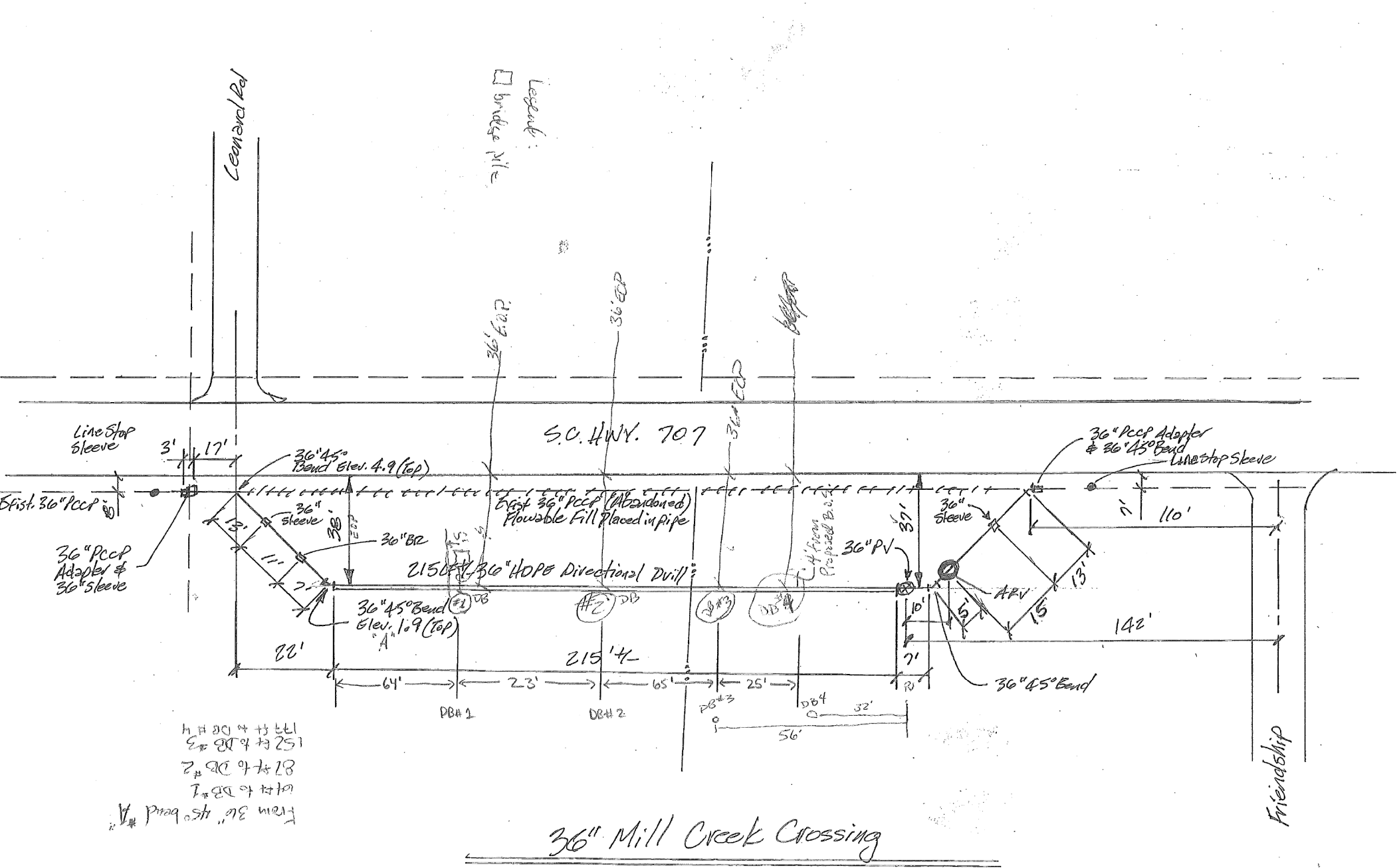


Profile



Project RH Moore Murrells Inlet SC Project started on Aug 04, 2014 Project completed on Aug 04, 2014		Scale X axis: 1 in = 50.0 ft Y axis: 1 in = 50.0 ft Z axis: 1 in = 50.0 ft
Proposed bore - 2D Bore Plan Bore Plan MD of proposed bore = 259.4 ft Away of proposed bore = 258.3 ft Line Az of proposed bore = 218.0°	As-drilled bore - 4460-Murrells Inlet 1 Bore started on Aug 05, 2014 Bore completed on Aug 06, 2014 Directional data ☐ Tracking data ☒	
THIS DRAWING PROVIDED BY : Ranger Field Services OPERATOR(S) FOR THIS JOB : John Etheridge THIS DRAWING IS BASED ON INFORMATION PROVIDED BY :		

SHEET # 11
SEWER EFFLUENT FORCE MAIN
(FROM CITY OF MYRTLE BEACH)
STA. 88+00 TO STA. 90+50
250 LF 42" OD IPS DR17 HDPE UNDER
MILL CREEK



TrueGyde Systems : Directional Data Report															
Job Name	4460-Murrells Inlet 1	Line Az	218.0°	Service Company	Ranger Field Services	Customer	RH Moore	Location	Murrells Inlet SC	Description	Probe S/N	Product Size/Type	30" HDPE	Survey	MD
Tie-In	0.0	Away	-45.0	Lateral	0.0	Elev	-0.6	Incl	80.0	Raw Az	0.0	Pig Az	N/A	Radius	N/A
1	19.3	10.6	2.1	-2.2	81.7	219.2	219.2	N/A	N/A	4880.0	57.2	N/A	N/A	N/A	1
2	39.3	30.4	2.6	-5.0	82.1	219.8	219.8	N/A	N/A	5008.0	56.0	N/A	N/A	N/A	2
3	59.3	50.2	3.1	-7.7	82.6	219.8	219.8	3323	1.7	4860.0	56.2	N/A	N/A	N/A	3
4	79.3	70.1	3.3	-10.0	84.1	218.5	218.5	1376	4.2	5020.0	56.7	N/A	N/A	N/A	4
5	99.3	90.0	3.4	-11.5	85.3	217.6	217.6	912	6.3	5030.0	57.0	N/A	N/A	N/A	5
6	119.3	109.9	3.3	-13.4	85.9	217.7	217.7	971	5.9	4885.1	56.8	N/A	N/A	N/A	6
7	139.3	129.9	3.1	-14.6	87.4	217.5	217.5	1014	5.7	4885.0	56.7	N/A	N/A	N/A	7
8	159.3	149.9	3.0	-15.0	90.1	217.7	217.7	708	8.1	5005.1	56.7	N/A	N/A	N/A	8
9	179.3	169.9	2.8	-14.8	91.2	217.3	217.3	651	8.8	5044.4	56.8	N/A	N/A	N/A	9
10	199.3	189.9	2.7	-14.3	91.3	218.1	218.1	654	6.7	5007.0	57.0	N/A	N/A	N/A	10
11	219.3	209.9	2.9	-13.6	92.9	219.0	219.0	1135	5.0	5045.1	56.7	N/A	N/A	N/A	11
12	239.3	229.6	3.1	-12.4	94.3	218.1	218.1	1071	5.4	5048.8	57.3	N/A	N/A	N/A	12
13	259.3	249.6	2.6	-8.7	95.4	219.9	219.9	777	7.4	5058.4	57.7	N/A	N/A	N/A	13
14	279.3	269.7	3.3	-6.6	96.7	227.2	220.0	870	6.6	4893.7	61.4	N/A	N/A	N/A	14
15	299.3	289.5	3.5	-3.8	95.6	217.4	217.4	658	8.7	5031.2	57.0	N/A	N/A	N/A	15
16	319.3	309.2	3.6	-0.4	99.8	219.1	219.1	789	7.4	5214.3	57.8	N/A	N/A	N/A	16
17	333.3	323.0	3.9	1.9	99.8	219.2	219.2	977	5.9	5187.7	57.7	N/A	N/A	N/A	17

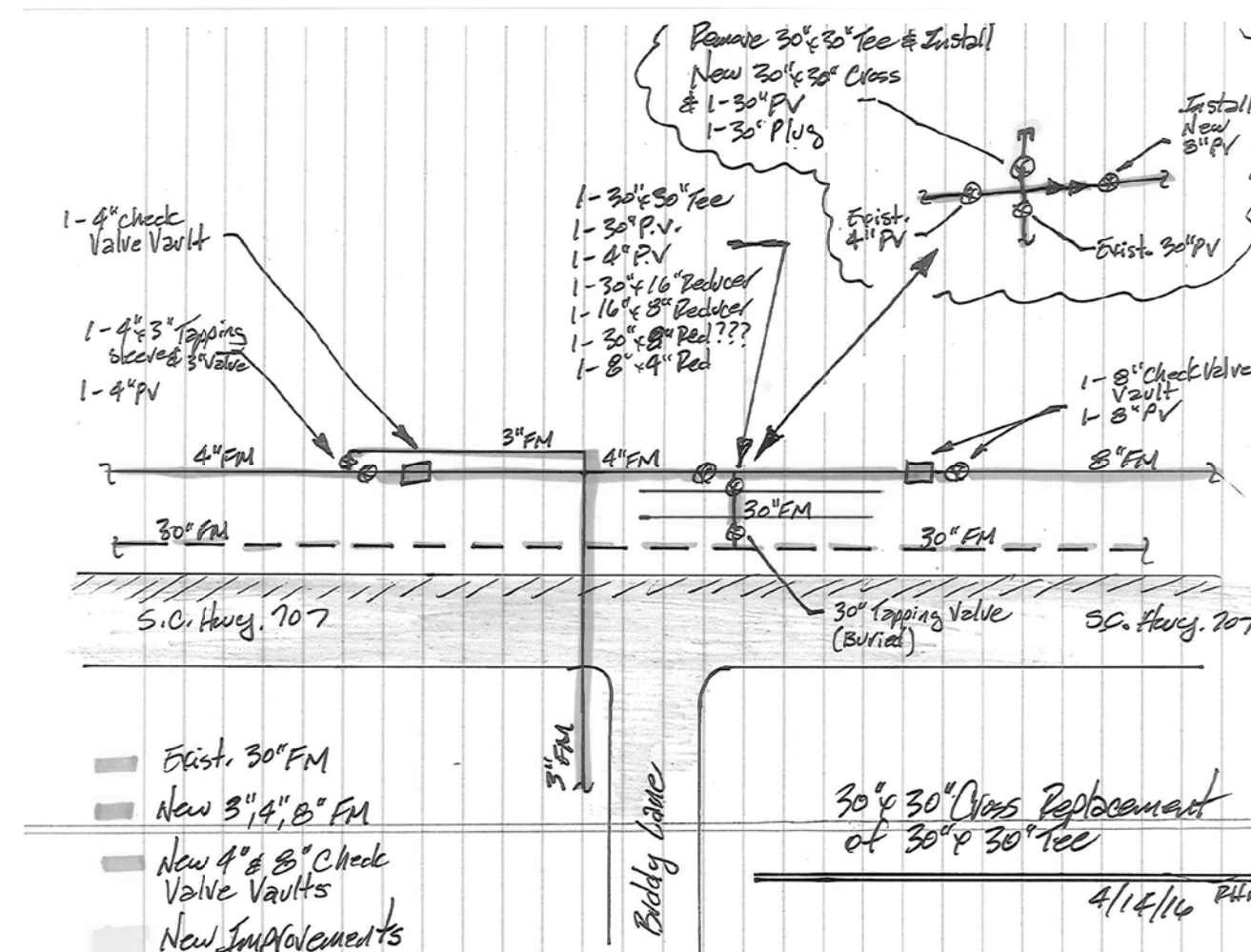
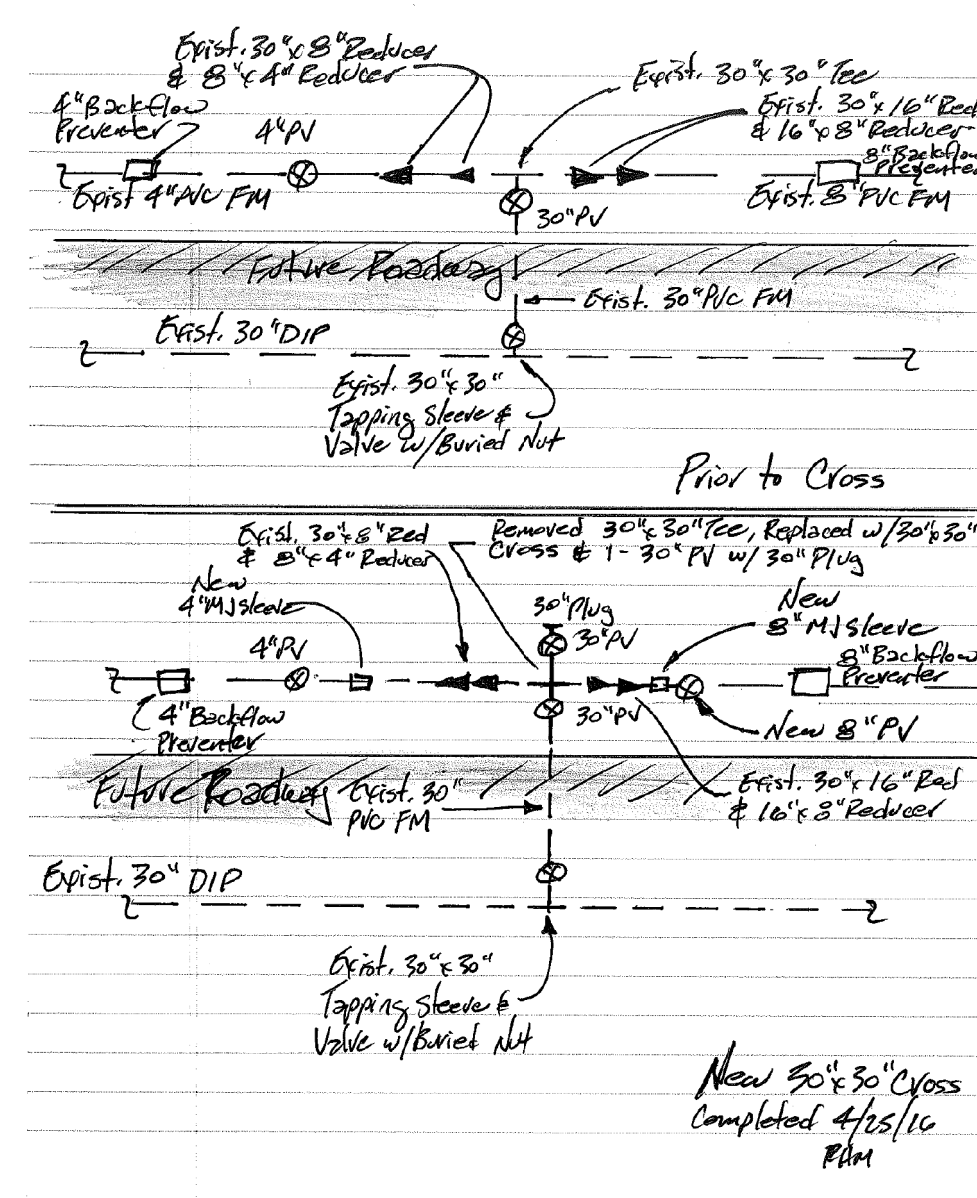
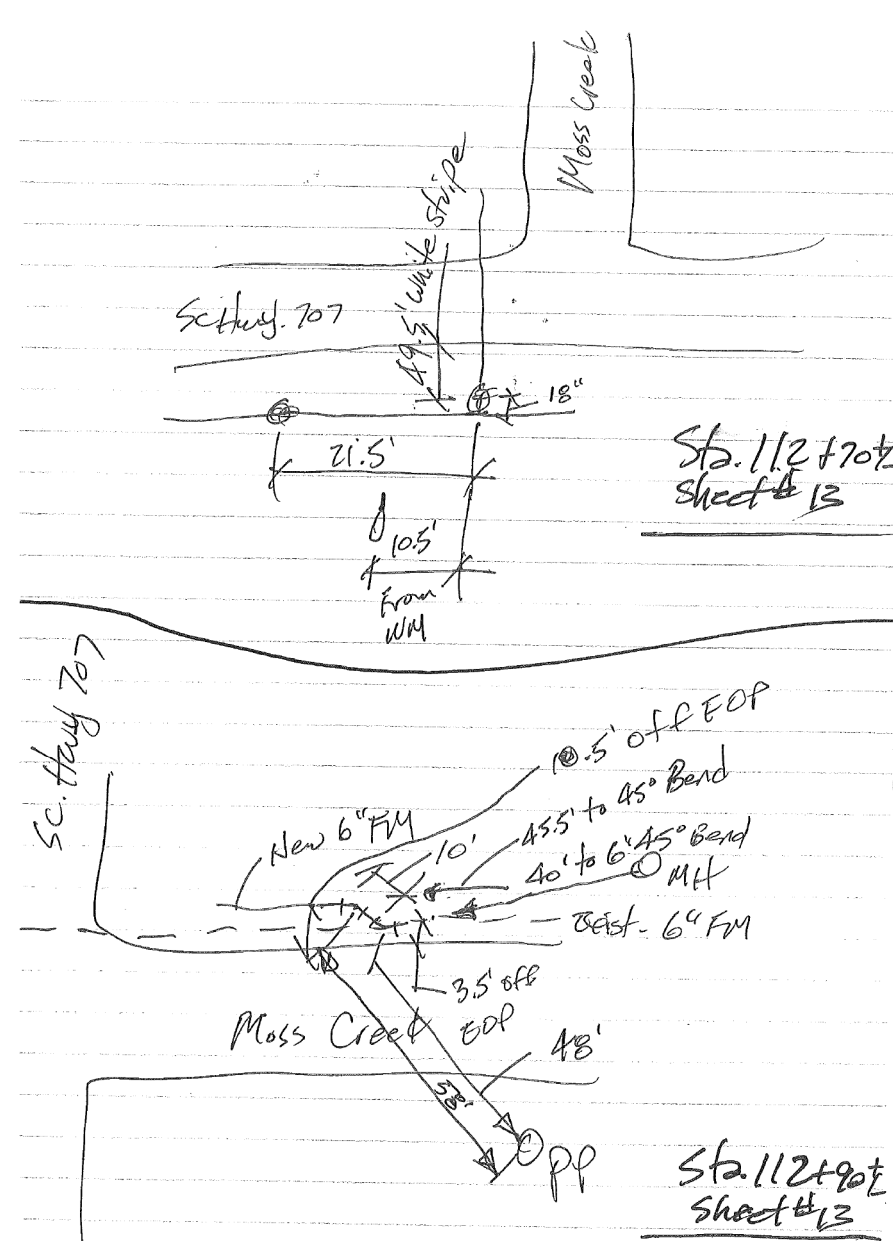
TrueGyde Systems : Tracking Data Report

Job Name	4460-Murrells Inlet 1	Line Az	218.0°	Service Company	Ranger Field Services	Customer	RH Moore	Location	Murrells Inlet SC	Description	Probe S/N	Product Size/Type	30" HDPE	Survey	MD
Tie-In	0.0	Away	-45.0	Lateral	0.0	Elev	-0.6	Incl	80.0	Raw Az	0.0	Pig Az	N/A	Radius	N/A
1	19.3	10.6	1.6	-2.2	81.0	217.7	217.7	3470.4	3196.4	218.0	218.0	-4.1	N/A	N/A	1
2	39.3	30.4	1.8	-5.2	148.0	278.0	1778.6	-1170.5	218.0	218.0	-1.1	N/A	N/A	N/A	2
3	59.3	50.2	2.1	-7.8	147.0	282.7	1990.0	-430.4	218.0	218.0	-1.1	N/A	N/A	N/A	3
4	79.3	70.1	2.5	-9.8	146.0	287.3	1075.2	-226.4	218.0	218.0	-1.1	N/A	N/A	N/A	4
5	99.3	90.0	2.6	-11.9	145.0	290.5	878.5	-23.7	217.8	218.0	0.0	N/A	N/A	N/A	5
6	119.3	109.9	2.9	-13.5	147.0	294.3	716.7	290.0	217.7	218.0	0.0	N/A	N/A	N/A	6
7	139.3	129.9	2.7	-14.6	150.0	289.6	603.2	338.0	217.5	218.0	0.0	N/A	N/A	N/A	7
8	159.3	149.9	2.8	-14.8	147.0	282.4	528.2	163.7	217.7	218.0	-0.1	N/A	N/A	N/A	8
9	179.3	169.9	2.7	-14.3	147.0	272.5	540.6	-54.0	217.3	218.0	-0.1	N/A	N/A	N/A	9
10	199.3	189.9	2.2	-13.9	145.0	263.1	560.7	-87.7	218.1	218.0	0.0	N/A	N/A	N/A	10
11	219.3	209.9	2.1	-13.3	146.0	259.1	524.6	-128.8	219.0	218.0	-0.1	N/A	N/A	N/A	11
12	239.3	229.6	2.3	-12.1	146.0	259.9	7679.4	266.9	218.1	218.0	-2.1	N/A	N/A	N/A	12
13	259.3	249.6	2.6	-8.7	146.0	262.5	7816.2	5210.6	219.9	218.0	-23.1	N/A	N/A	N/A	13
14	279.3	269.7	3.3	-6.6	96.7	227.2	220.0	870	6.6	4893.7	61.4	N/A	N/A	N/A	14
15	299.3	289.5	3.5	-3.8	95.6	217.4	217.4	658	8.7	5031.2	57.0	N/A	N/A	N/A	15
16	319.3	309.2	3.6	-0.4	99.8	219.1	219.1	789	7.4	5214.3	57.8	N/A	N/A	N/A	16
17	333.3	323.0	3.9	1.9	99.8	219.2	219.2	977	5.9	5187.7	57.7	N/A	N/A	N/A	17

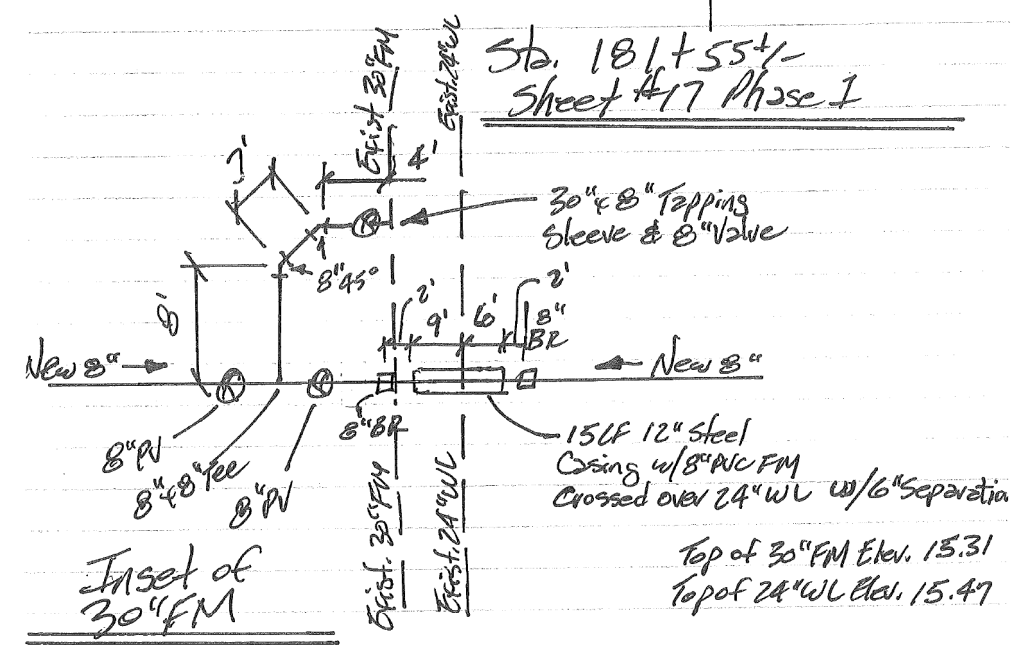


S.C. HIGHWAY 707 WIDENING PROJECT
SEWER RELOCATIONS
(FROM GREEN BAY CIRCLE TO POLO CIRCLE)
SCDOT FILE # 26.0367779A
SEWER PROJECT # 8-926-01

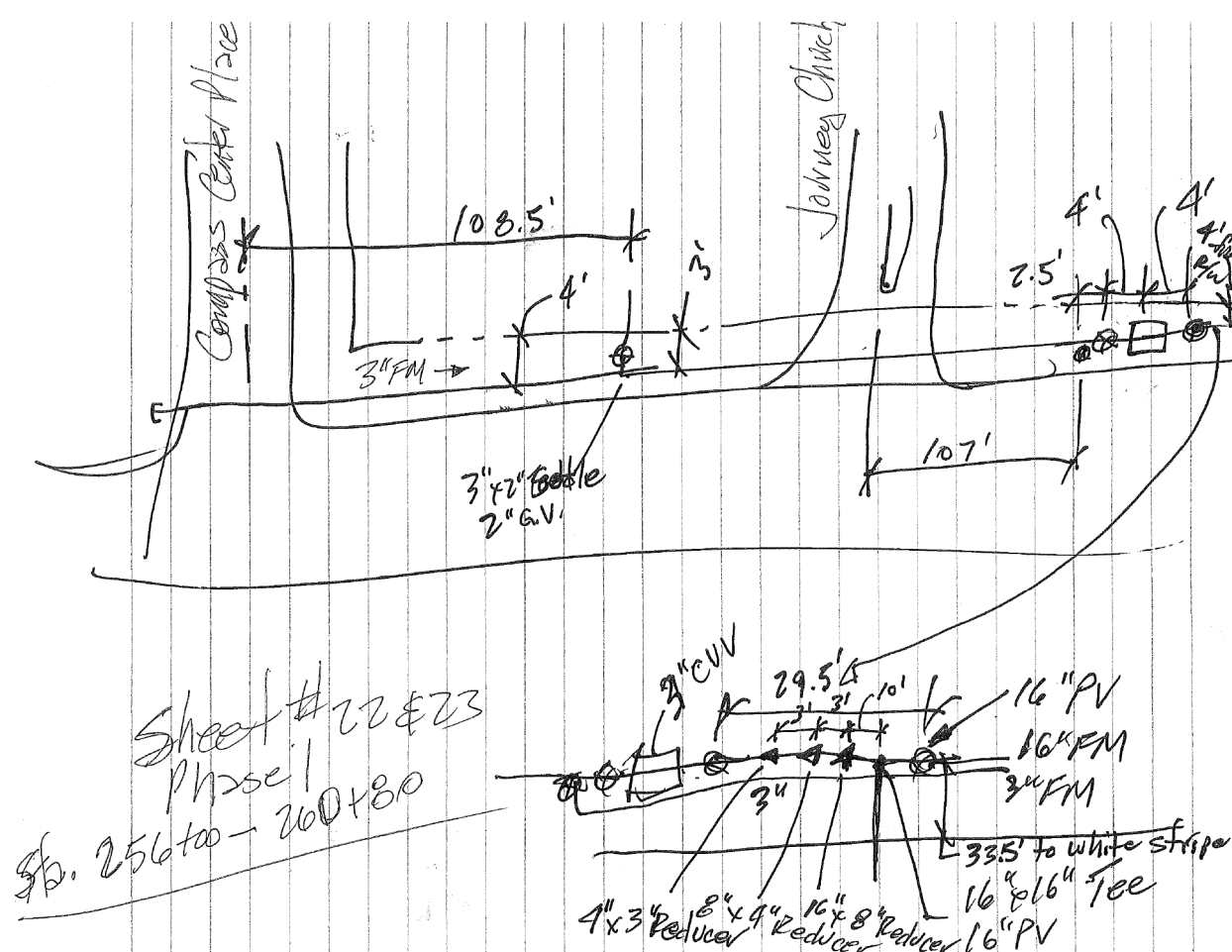
DATE: MAY 2012	
SCALE: N.T.S.	
FILENAME: WATER/SEWER RELOCATIONS	
DESIGNED BY	ROBERT E. PERKINS
CHECKED BY	JASON POSTON
APPROVED BY	
CHRISTINA S. EVERETT PE #21255	
SHEET 1 OF 3	



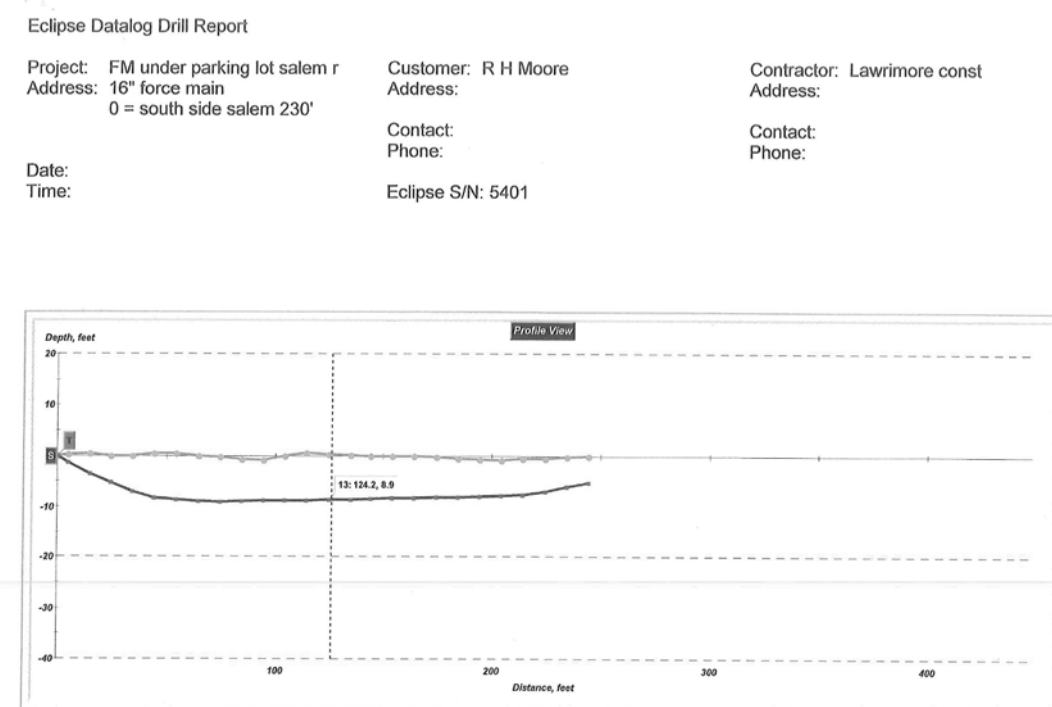
S.C. HWY. 707 WIDENING PROJECT
PHASE ONE SEWER BORE LOGS AND SKETCHES



SHEET # 17
SEWER FORCE MAIN
STA. 181+55



SHEET # 22 AND 23
SEWER FORCE MAIN
STA. 256+00 TO STA. 260+80



Digital Control Inc
Page 1

SHEET # 23
SEWER FORCE MAIN
STA. 265+10 TO STA. 267+40
230 LF 16" OD IPS DR17 HDPE
UNDER CONCRETE PARKING

Eclipse Data Logger Drill Report			Eclipse SN: 5401		
Rod	FM under parking lot station r		Depth (ft)	Depth (ft)	Rel. Elev. (ft)
	xDist (ft)	Pitch (%)			
0	0.00	-28.0	0.00	0.00	0.00
1	4.83	-25.2	1.57	-1.29	0.29
2	14.58	-20.4	3.92	-3.51	0.41
3	24.42	-16.6	5.33	-5.32	0.00
4	34.26	-18.6	6.96	-7.00	-0.10
5	44.19	-5.4	8.60	-8.24	0.36
6	54.19	-2.5	8.98	-8.84	0.34
7	64.18	-2.1	8.78	-8.87	-0.10
8	74.18	-0.1	8.70	-8.98	-0.28
9	84.18	1.7	8.15	-8.90	-0.75
10	94.18	1.7	7.94	-8.73	-0.79
11	104.18	-0.8	8.58	-8.69	-0.11
12	114.18	1.0	9.27	-8.68	0.58
13	124.18	-0.2	8.89	-8.64	0.25
14	134.18	1.3	8.69	-8.59	0.11
15	144.18	2.1	8.41	-8.41	-0.00
16	154.18	0.5	8.30	-8.28	0.02
17	164.18	0.5	8.11	-8.23	-0.12
18	174.18	1.2	7.91	-8.15	-0.24

Digital Control Inc.
Page 2

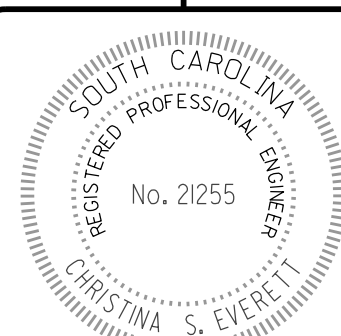
This report contains a log of data taken by above-ground logging equipment during below-ground drilling. Because the accuracy of such data can be adversely affected by environmental and operational factors, the data does not necessarily provide an accurate representation of actual site conditions.

Eclipse Data Logger Drill Report				Eclipse SON 5401		
Row	Lat (N)	Pitch (°)	Depth (ft)	Depth (ft)	Red Elev (ft)	Type
19	194.18	0.5	7.59	-8.06	-0.48	
20	194.18	1.1	7.31	-7.99	-0.71	
21	204.18		6.98	-7.83	-0.85	
22	214.17	2.7	7.02	-7.60	-0.57	
23	224.15	9.6	6.38	-6.98	-0.60	
24	234.11	8.2	5.93	-6.10	-0.45	
25	244.06	9.3	5.17	-5.22	-0.10	



S.C. HIGHWAY 707 WIDENING PROJECT SEWER RELOCATIONS

(FROM GREEN BAY CIRCLE TO POLO CIRCLE)
SCDOT FILE # 26.036779A
SEWER PROJECT # 8-926-01



DATE: MAY 2012	
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 3 OF 3	