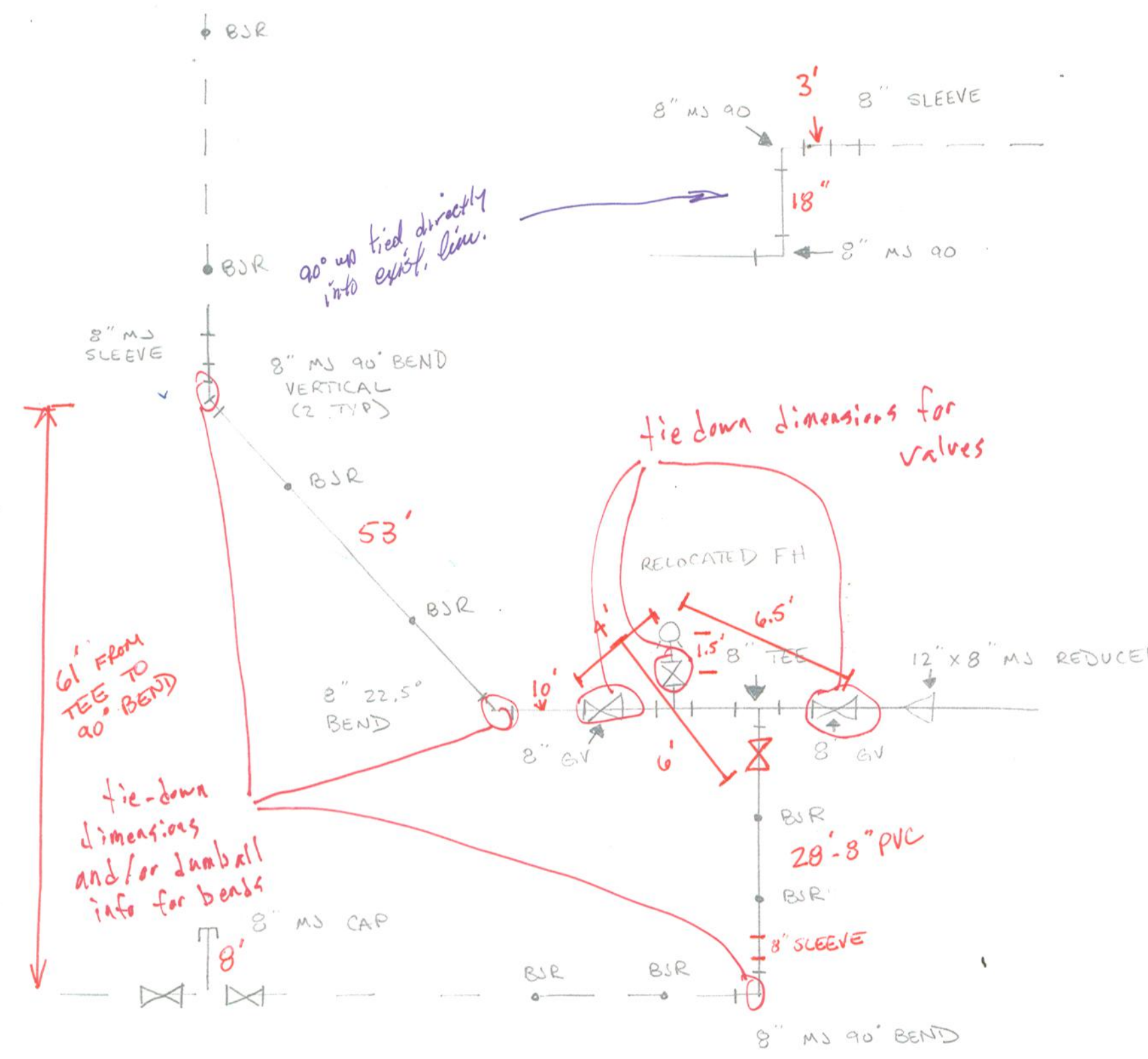
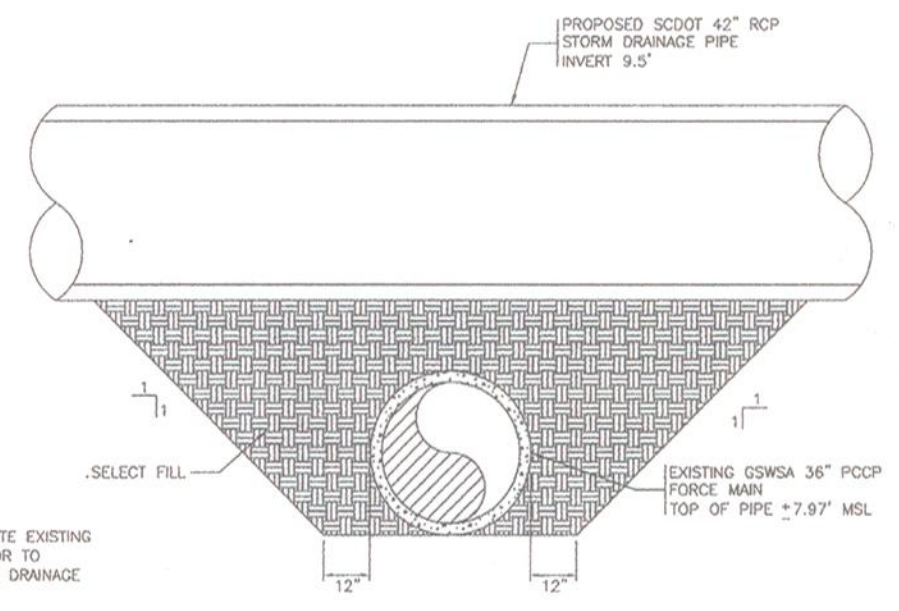


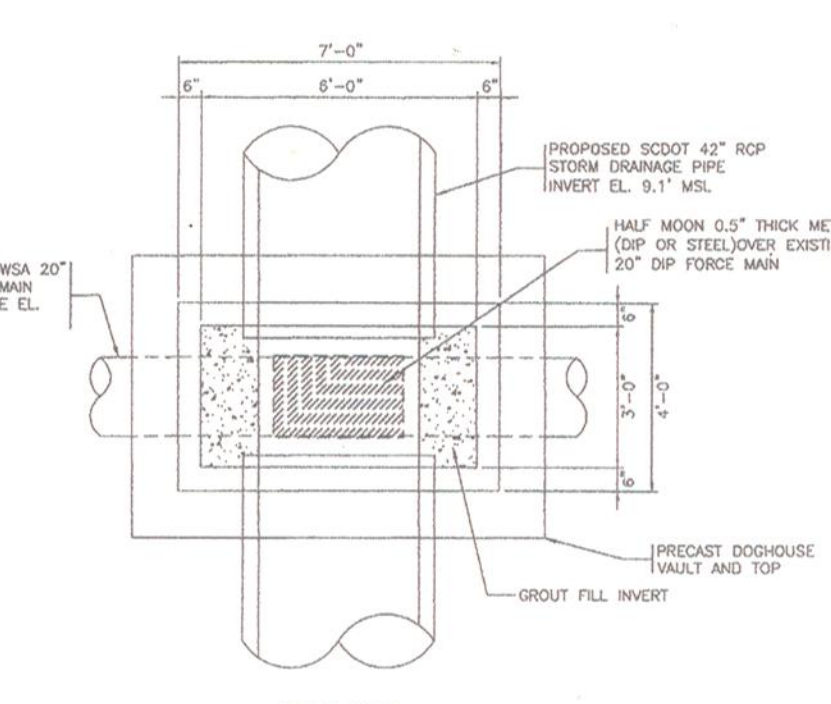


- NOTES:
1. CONTRACTOR SHALL LOCATE EXISTING 36" PCP FORCE MAIN PRIOR TO EXCAVATING FOR 42" STORM DRAINAGE PIPE.
 2. DURING EXCAVATION FOR STORM DRAINAGE, CONTRACTOR SHALL EXCAVATE AROUND THE EXISTING 36" FORCE MAIN AND REPLACE MATERIAL WITH SELECT DRAINAGE FILL APPROVED BY SCOT. EXCAVATION AND REPLACEMENT SHALL EXTEND MINIMUM OF 2 FEET EITHER SIDE OF OUTSIDE OF STORM DRAIN PIPE.
 3. CONTRACTOR SHALL COMPACT MATERIAL PER SCOT SPECIFICATIONS AND CONTINUE SELECT FILL TO BOTTOM OF NEW STORM DRAINAGE PIPE.

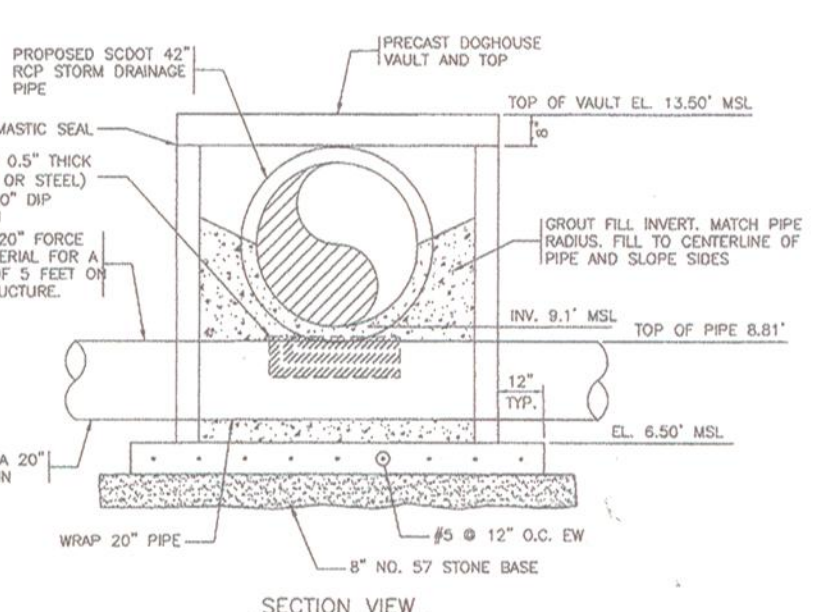


STA. 32+40.26' LEFT GSWA UTILITY COORDINATION

- NOTES:
1. CONTRACTOR SHALL LOCATE 20" DIP FORCE MAIN PRIOR TO EXCAVATING FOR 42" STORM DRAINAGE PIPE.
 2. CONTRACTOR SHALL CONSTRUCT BASE SLAB UNDER 20" PIPE. SUPPORT PIPE AS REQUIRED DURING CONSTRUCTION.
 3. CONTRACTOR SHALL INSTALL DOORHOUSE VAULT OVER THE EXISTING 20" PIPE AND STAY THE 42" PIPE INTO THE BOX.
 4. CONTRACTOR SHALL PLACE A SECTION OF DIP OR STEEL PIPE (0.5" THICKNESS) OVER TOP PORTION OF 20" DIP FM AND NED INTO GROUT AS SHOWN.
 5. CONTRACTOR SHALL WRAP 20" PIPE WITH ROOFING FELT AND FORM FOUR OR FIVE IN THE BOX AS SHOWN ON DETAIL.
 6. CONTRACTOR SHALL INSTALL PRECAST LID ON TOP OF BOX SEALED AT JOINTS WITH MASTIC.



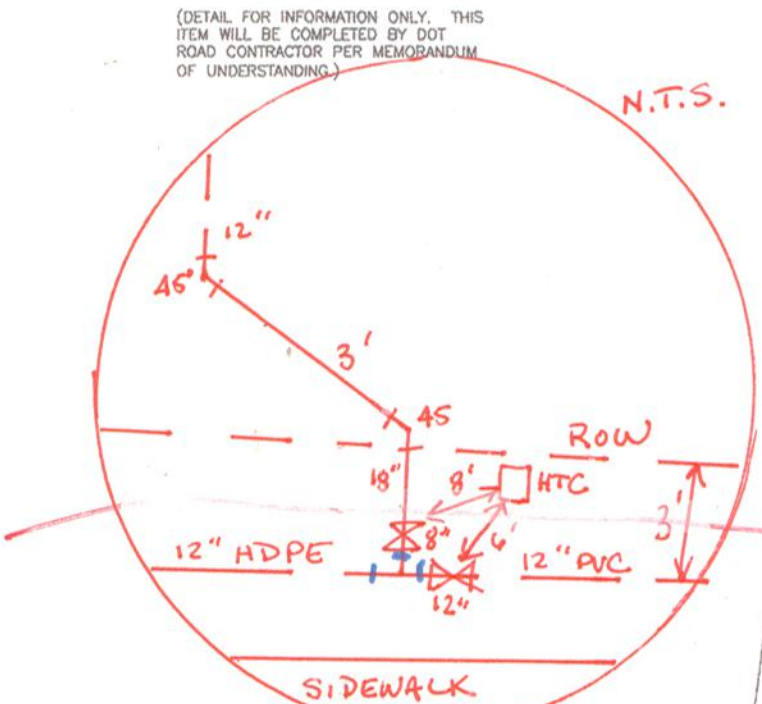
PLAN VIEW



SECTION VIEW
STA. 32+40.25' RIGHT GSWA UTILITY COORDINATION

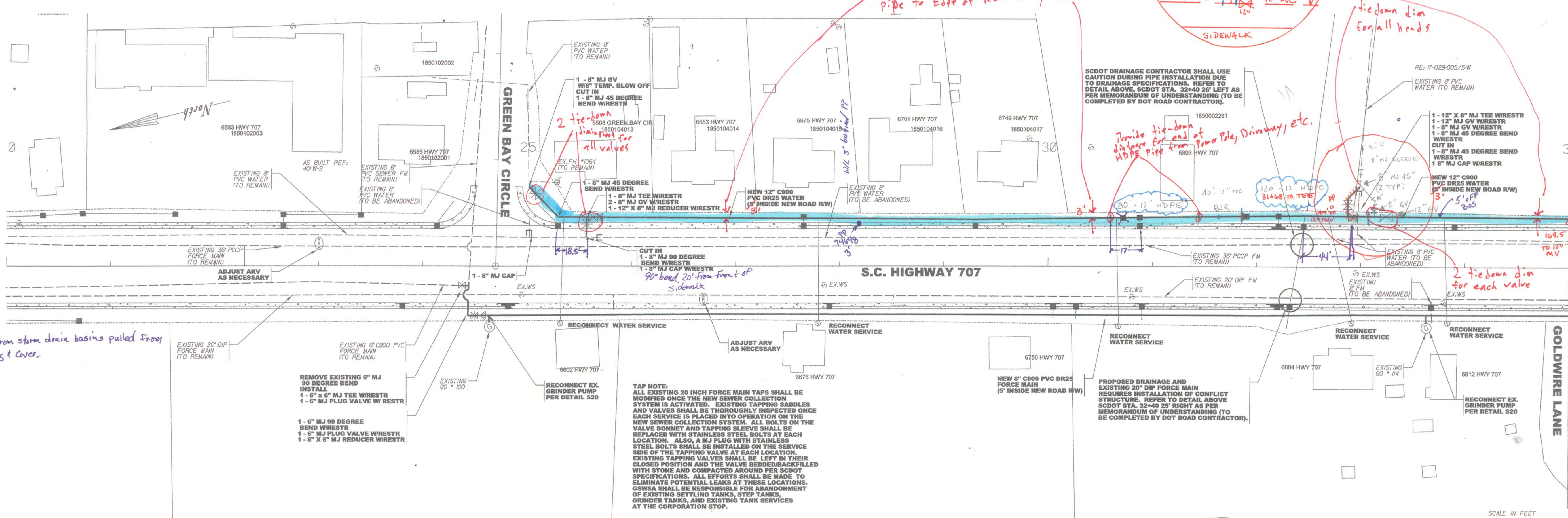
- Need 2 tie-down dimensions for all valves. Can use power poles, hydrants, dim to edge of ROW or centerline of Road
- Add any damball info to plans
- Need 2 tie-downs for all bends, end of casing, end of HDPE

Provide Dimensions from Center of Pipe to Edge of ROW Every 200'-300'



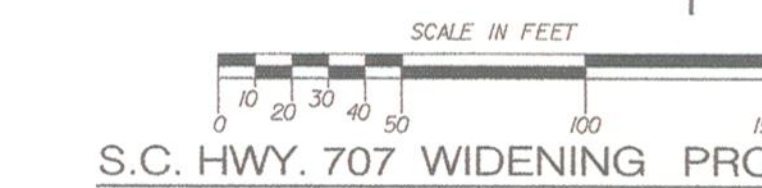
- Dimension from ROW to New Line
- Value dimensions to PP's, Hydrants
- Bend / Tee dimensions

Something permanent



All dimensions from storm drain basins pulled from center of MJ Ring & Cover.

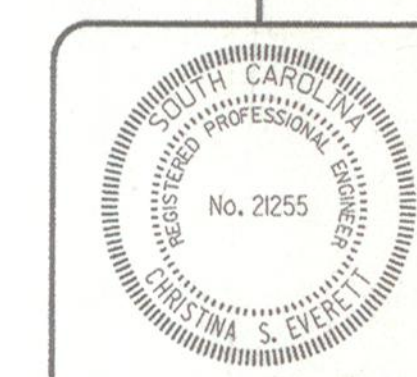
TAP NOTE:
ALL EXISTING 20 INCH FORCE MAIN TAPS SHALL BE MODIFIED ONCE THE NEW SEWER COLLECTION SYSTEM IS ACTIVATED. EXISTING TAPPING SADDLES AND VALVES SHALL BE THOROUGHLY INSPECTED ONCE EACH SERVICE IS PLACED INTO OPERATION ON THE NEW SEWER COLLECTION SYSTEM. ALL BOLTS ON THE VALVE BONNET AND TAPPING 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 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.



S.C. HWY. 707 WIDENING PROJECT

Relim. As-Builts Contract 1 (Water)

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



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
SHEET 7 OF 36

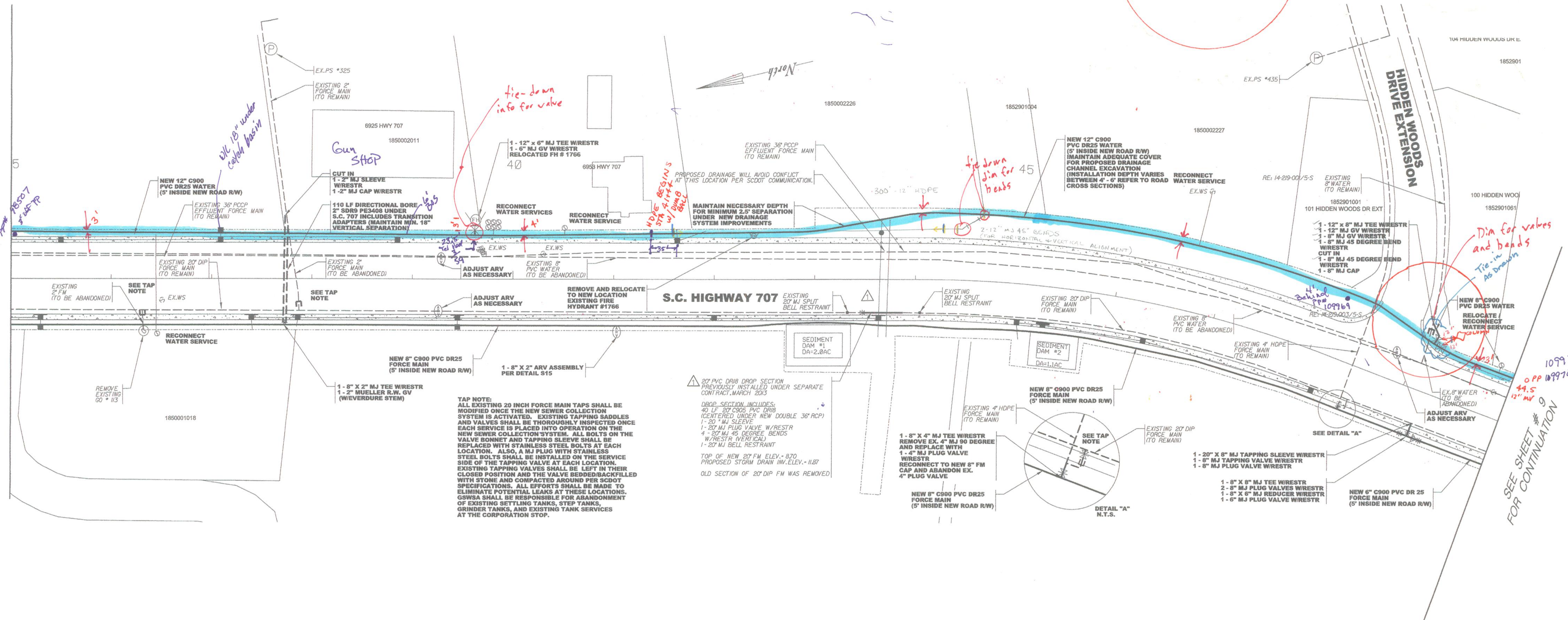
Ph I Builts As-Builts

GRAND STRAND WATER & SEWER AUTHORITY

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(843) 347-4641 OR 488-1886
FAX: (843) 347-4641
E-MAIL: GSWA@GSAW.COM

OFFICE COPY

SEE SHEET # 7
FOR CONTINUATION



TAP NOTE:
ALL EXISTING 20 INCH 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 SCDDOT SPECIFICATIONS. ALL EFFORTS SHALL BE MADE TO ELIMINATE POTENTIAL LEAKS AT THESE LOCATIONS. GSWSA SHALL BE RESPONSIBLE FOR ABANDONMENT OF EXISTING SETTLING TANKS, STEP TANKS, GRINDER TANKS, AND EXISTING TANK SERVICES AT THE CORPORATION STOP.

DROP SECTION INCLUDES:
40 LF 20" C900 PVC DR25 (CENTERED UNDER NEW DOUBLE 36" RCP)
1-20" MJ SLEEVE
1-20" MJ PLUG VALVE W/RESTR
4-20" MJ 45 DEGREE BENDS
1-20" MJ BELL RESTRAINT
TOP OF NEW 20" FM ELEV. +870
PROPOSED STORM DRAIN INV. ELEV. -1187
OLD SECTION OF 20" DIP FM WAS REMOVED

1-8" X 4" MJ TEE W/RESTR
REMOVE EX. 4" MJ 90 DEGREE AND REPLACE WITH 1-4" MJ PLUG VALVE W/RESTR
RECONNECT TO NEW 8" FM CAP AND ABANDON EX. 4" PLUG VALVE

1-20" X 8" MJ TAPPING SLEEVE W/RESTR
1-8" MJ TAPPING VALVE W/RESTR
1-8" MJ PLUG VALVE W/RESTR

1-8" X 8" MJ TEE W/RESTR
2-8" MJ PLUG VALVES W/RESTR
1-8" X 6" MJ REDUCER W/RESTR
1-8" MJ PLUG VALVE W/RESTR

NEW 6" C900 PVC DR 25
FORCE MAIN
(5' INSIDE NEW ROAD R/W)



S.C. HWY. 707 WIDENING PROJECT

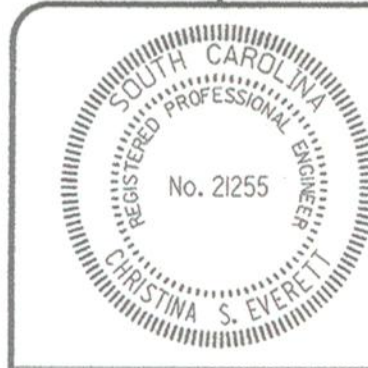
REVISION	DATE
1. PENDING SEPARATE CONTRACT COMPLETION	OCT. 2012
2. FORCE MAIN SECTION LOWERED	MAR. 2013

GRAND STRAND
WATER & SEWER
AUTHORITY

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(843) 347-4641 OR 448-1686
E-MAIL: GSWSA.COM

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

SCDDOT FILE # 26-036779A
WATER PROJECT # 7-556-01
SEWER PROJECT # 8-926-01



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

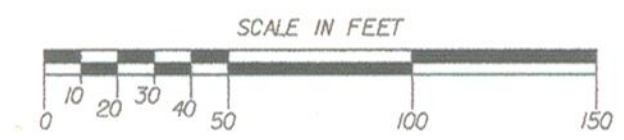
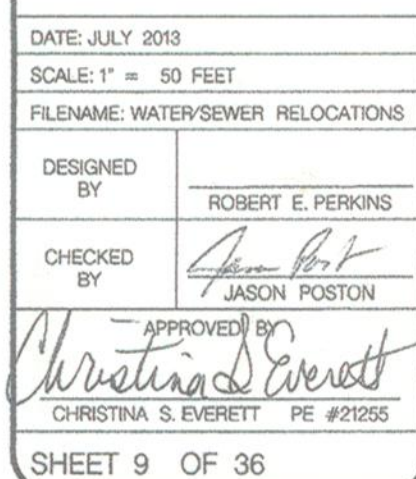
DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: Christina S. Everett
CHRISTINA S. EVERETT PE #21255

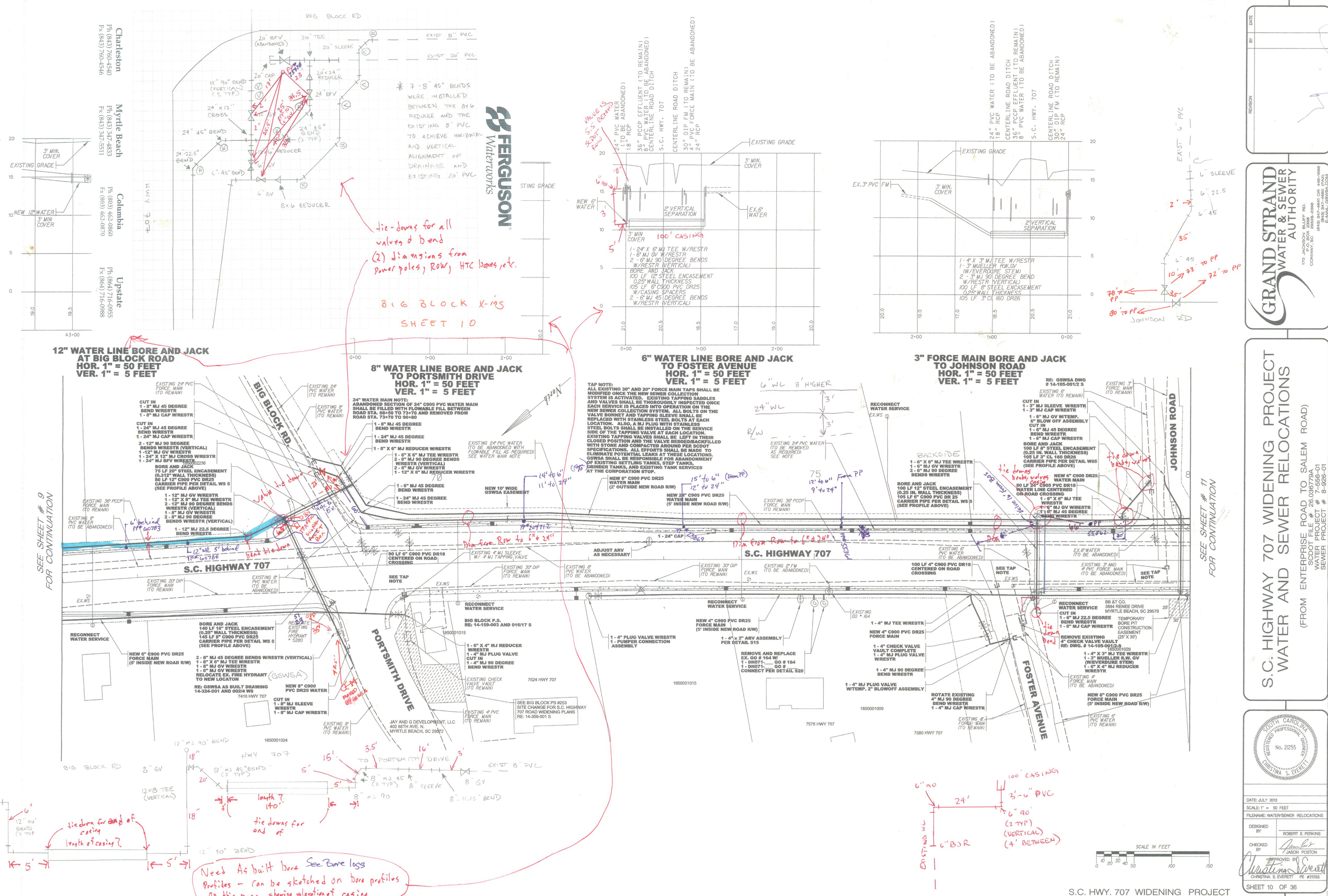
SHEET 8 OF 36

GRAND STRAND
WATER & SEWER
AUTHORITY

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P.O. BOX 2308
CONWAY, SC 29628-2368

(FROM ENTERPRISE ROAD TO SALEM ROAD)
SCDOT FILE # 26.036779A
WATER PROJECT # 7-556-01
SEWER PROJECT # 8-926-01





Charleston
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Fx (843) 760-4546

Myrtle Beach
Ph (843) 347-4833
Fx (843) 347-5511

Columbia
Ph (803) 462-0860
Fx (803) 462-0870

Uptate
Ph (864) 716-0955
Fx (864) 716-0988



REVISION	BY	DATE

GRAND STRAND WATER & SEWER AUTHORITY

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CONWAY, SC 29524
(843) 347-4800 (FAX)
(843) 347-4800 (TOLL FREE)
E-MAIL: GSWSA@GMAIL.COM

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

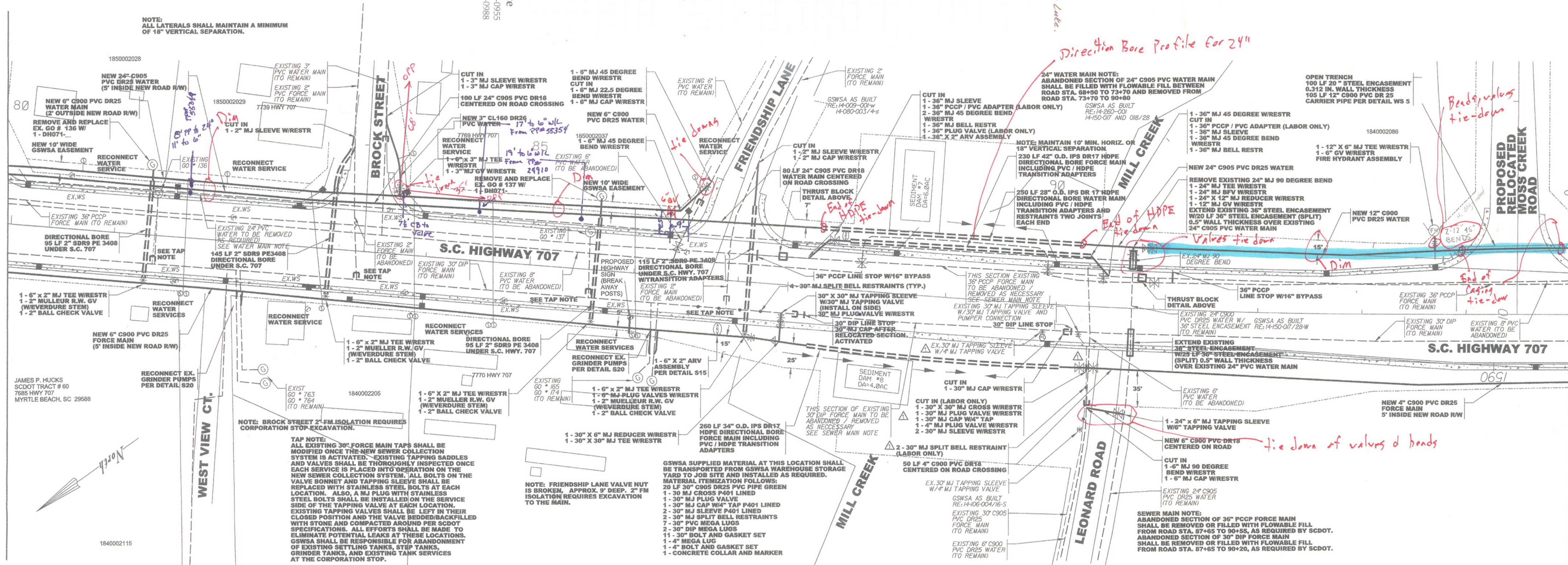
(FROM ENTERPRISE ROAD TO SALEM ROAD)

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 10 OF 36

SEE SHEET # 10
FOR CONTINUATION



NOTE:
ALL LATERALS SHALL MAINTAIN A MINIMUM
OF 18" VERTICAL SEPARATION.

WEST VIEW CT.

NOTE: BROCK STREET 2" EM ISOLATION REQUIRES
CORPORATION STOP EXCAVATION.

TAP NOTE:
ALL EXISTING 30" 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
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SIDE OF THE TAPPING VALVE AT EACH LOCATION.
EXISTING TAPPING VALVES SHALL BE LEFT IN THEIR
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WITH STONE AND COMPACTED AROUND PER SCOT
SPECIFICATIONS. ALL EFFORTS SHALL BE MADE TO
ELIMINATE POTENTIAL LEAKS AT THESE LOCATIONS.
GSWSA SHALL BE RESPONSIBLE FOR ABANDONMENT
OF EXISTING SETTLING TANKS, STEP TANKS,
GRINDER TANKS, AND EXISTING TANK SERVICES
AT THE CORPORATION STOP.

NOTE: FRIENDSHIP LANE VALVE NUT
IS BROKEN. APPROX. 9" DEEP. 2" FM
ISOLATION REQUIRES EXCAVATION
TO THE MAIN.

1840002204

6" 45°
BENDS
(2 TYP)

LEONARD RD

EXIST 24" PVC

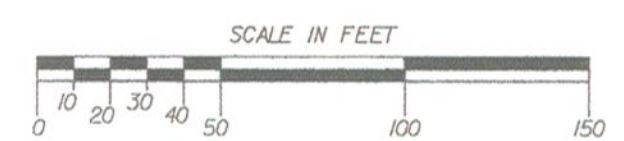
24" X 6" TAP SLEEVE

MILL CREEK TIE-IN
PROFILE

FERGUSON
Waterworks

Direction Bore Profile for 24"

tie down of valves & heads



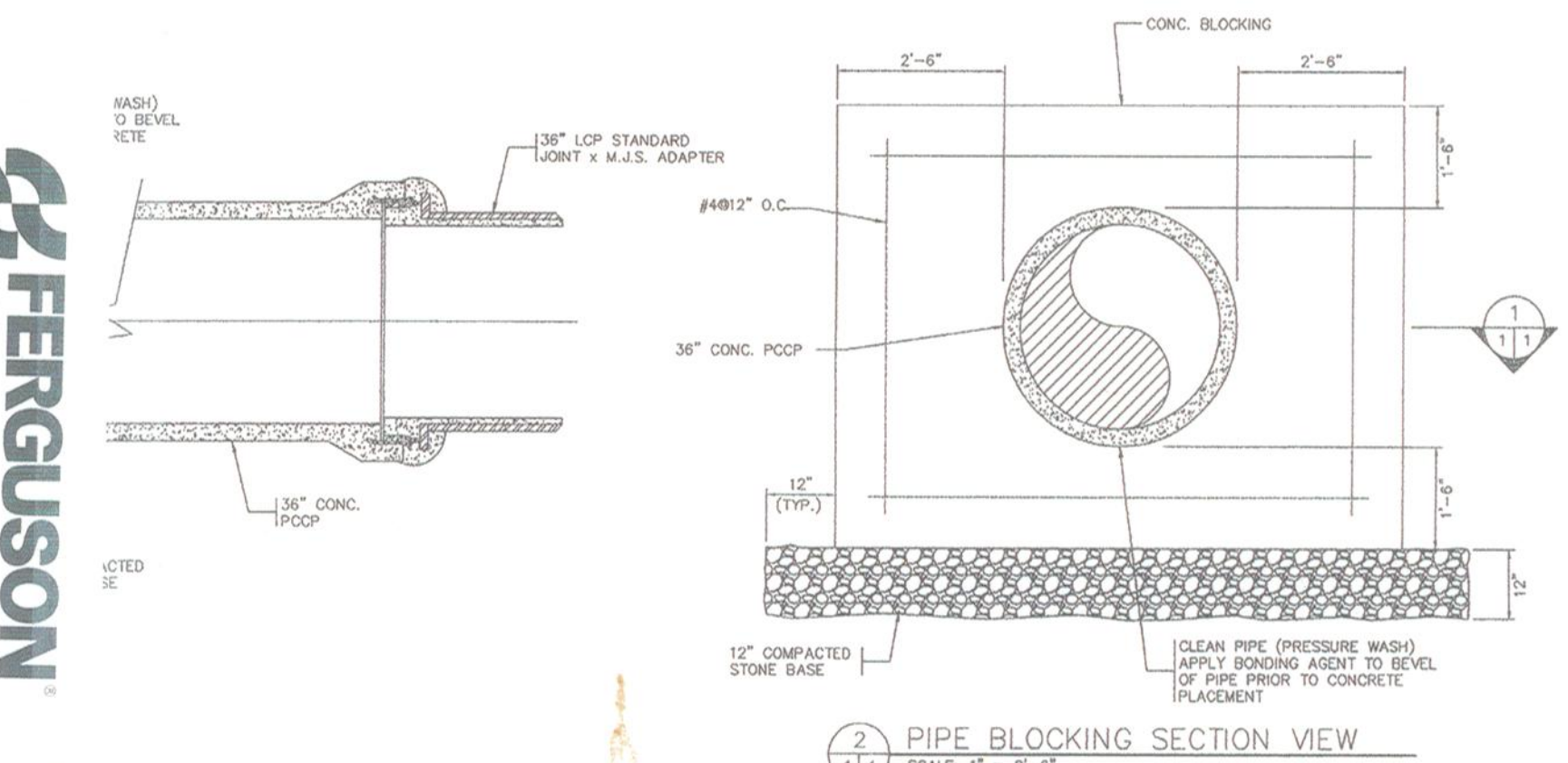
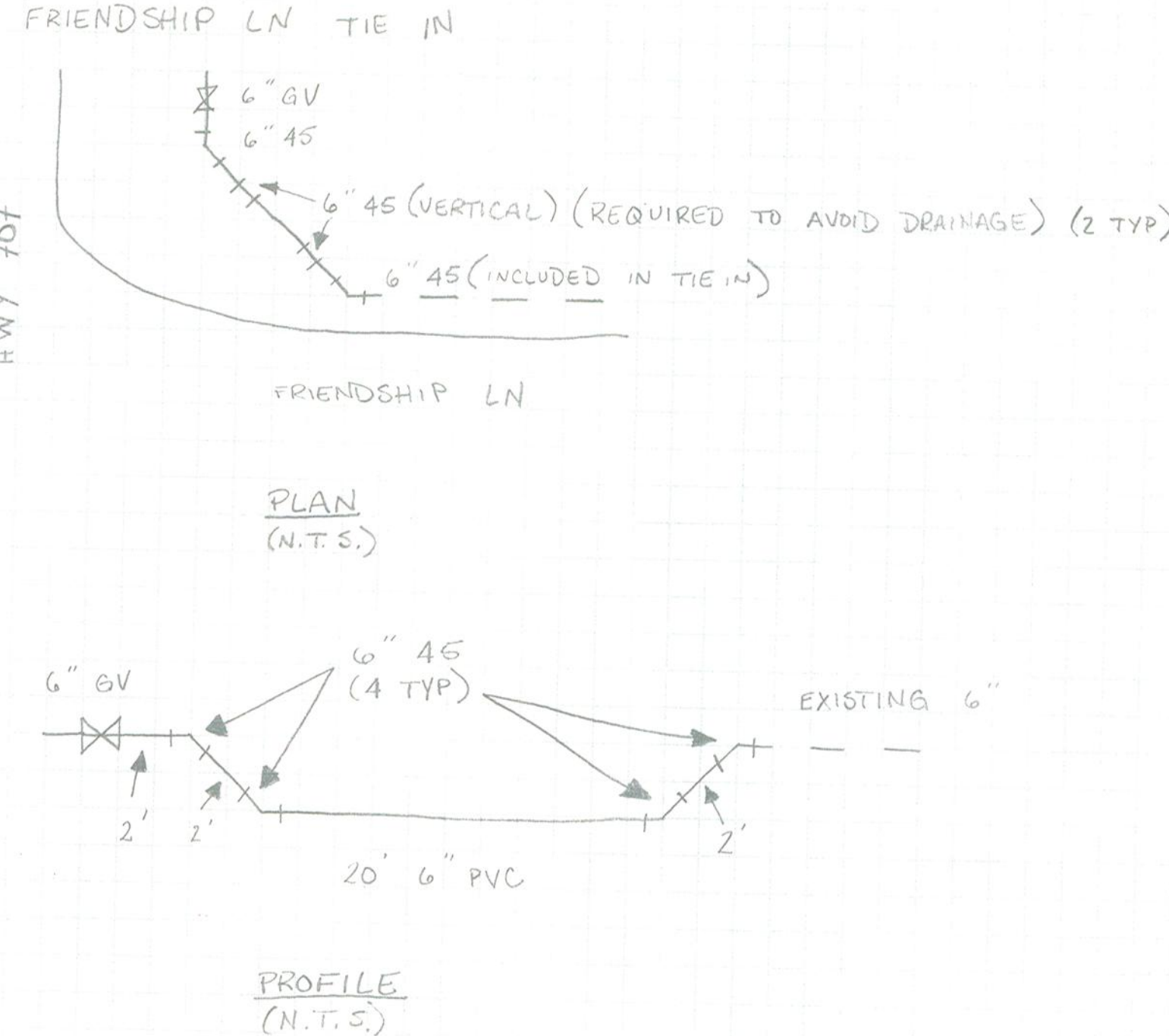
S.C. HWY. 707 WIDENING PROJECT

Charleston
Ph (843) 760-4540
Fx (843) 760-4546

Myrtle Beach
Ph (843) 347-4833
Fx (843) 347-2511

Columbia
Ph (843) 462-0860
Fx (843) 462-0870

Update
Ph (843) 716-0955
Fx (843) 716-0988



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

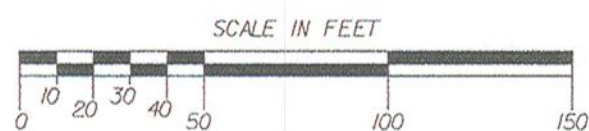
DESIGNED BY: ROBERT E. PERKINS

CHECKED BY: JASON POSTON

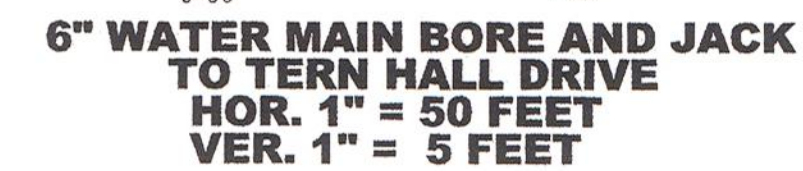
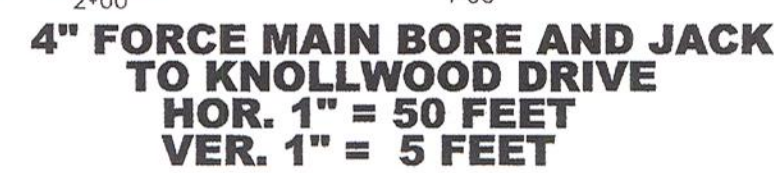
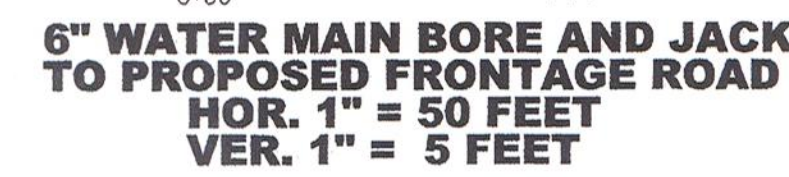
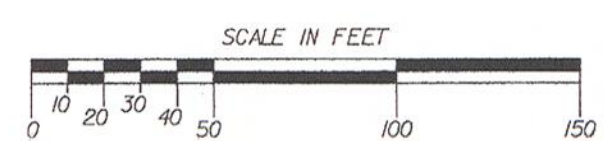
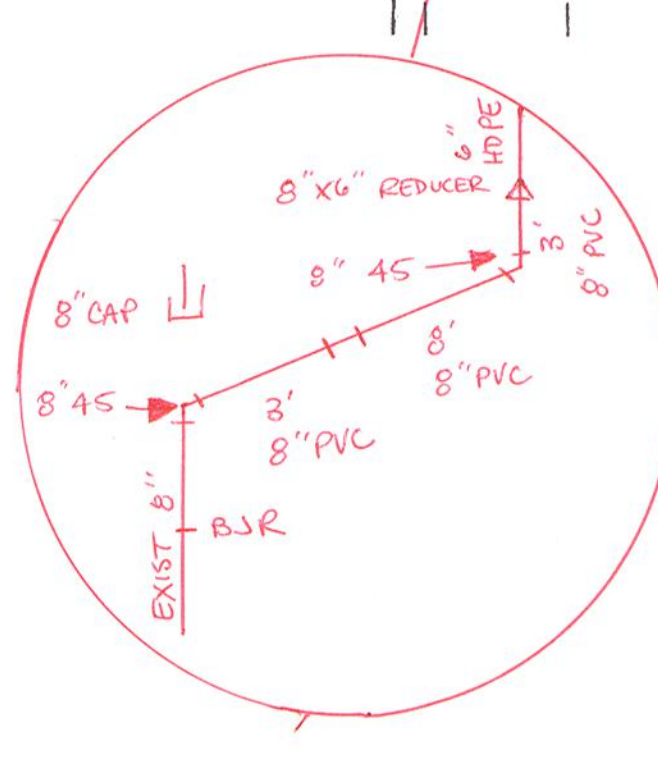
APPROVED BY: CHRISTINA S. EVERETT

CHRISTINA S. EVERETT PE #21255

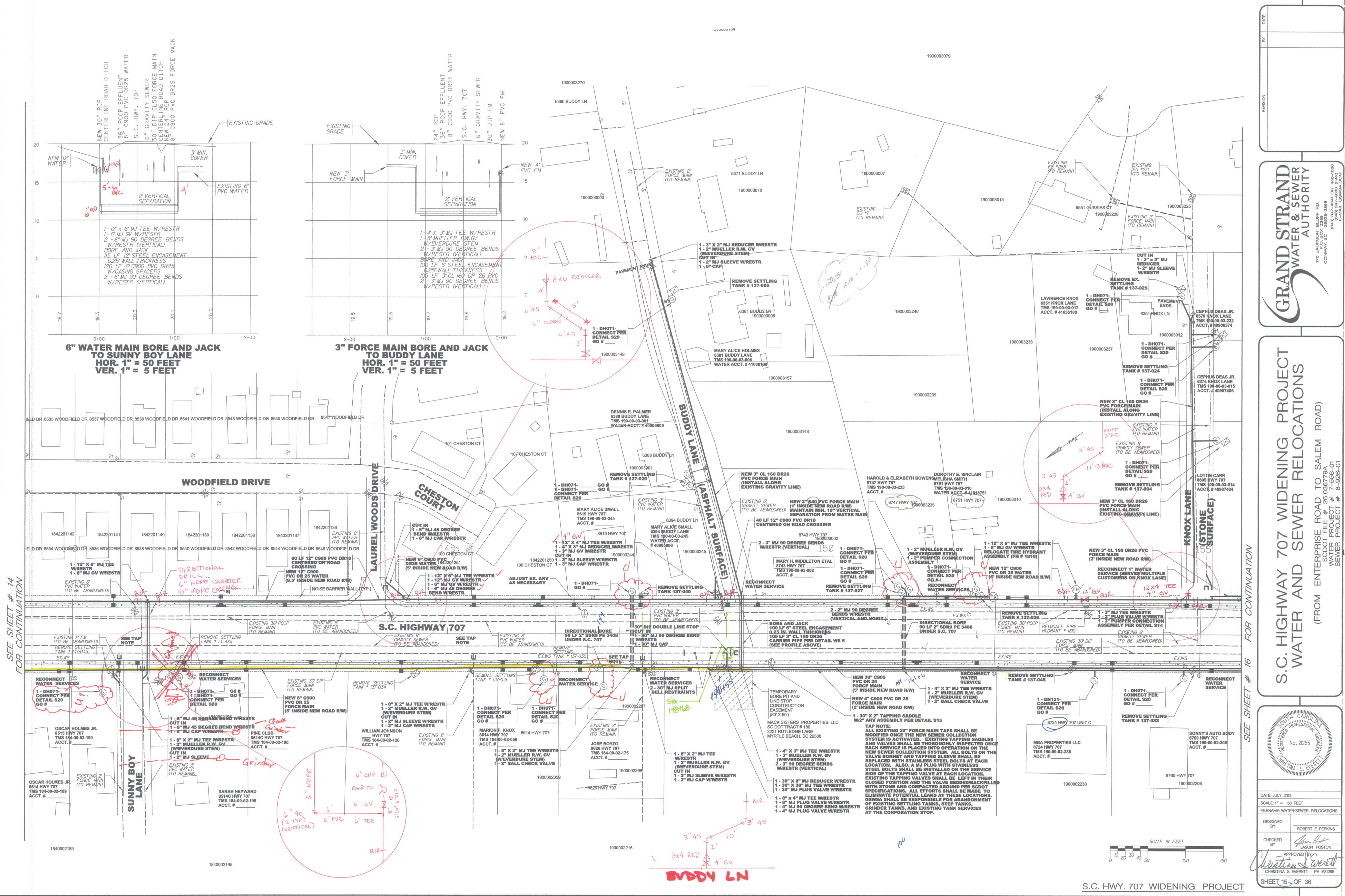
SHEET 11 OF 36



DATE: JULY 2013	
SCALE: 1" = 50 FEET	
FILENAME: WATER/SEWER RELOCATIONS	
DESIGNED BY 	ROBERT E. PERKINS
CHECKED BY 	JASON POSTON
APPROVED BY 	
CH. CHRISTINA S. EVERETT PE # 012255	
SHEET 12 OF 36	

SEE SHEET # 15
FOR CONTINUATION

S.C. HWY. 707 WIDENING PROJECT



REVISION	DATE

GRAND STRAND WATER & SEWER AUTHORITY

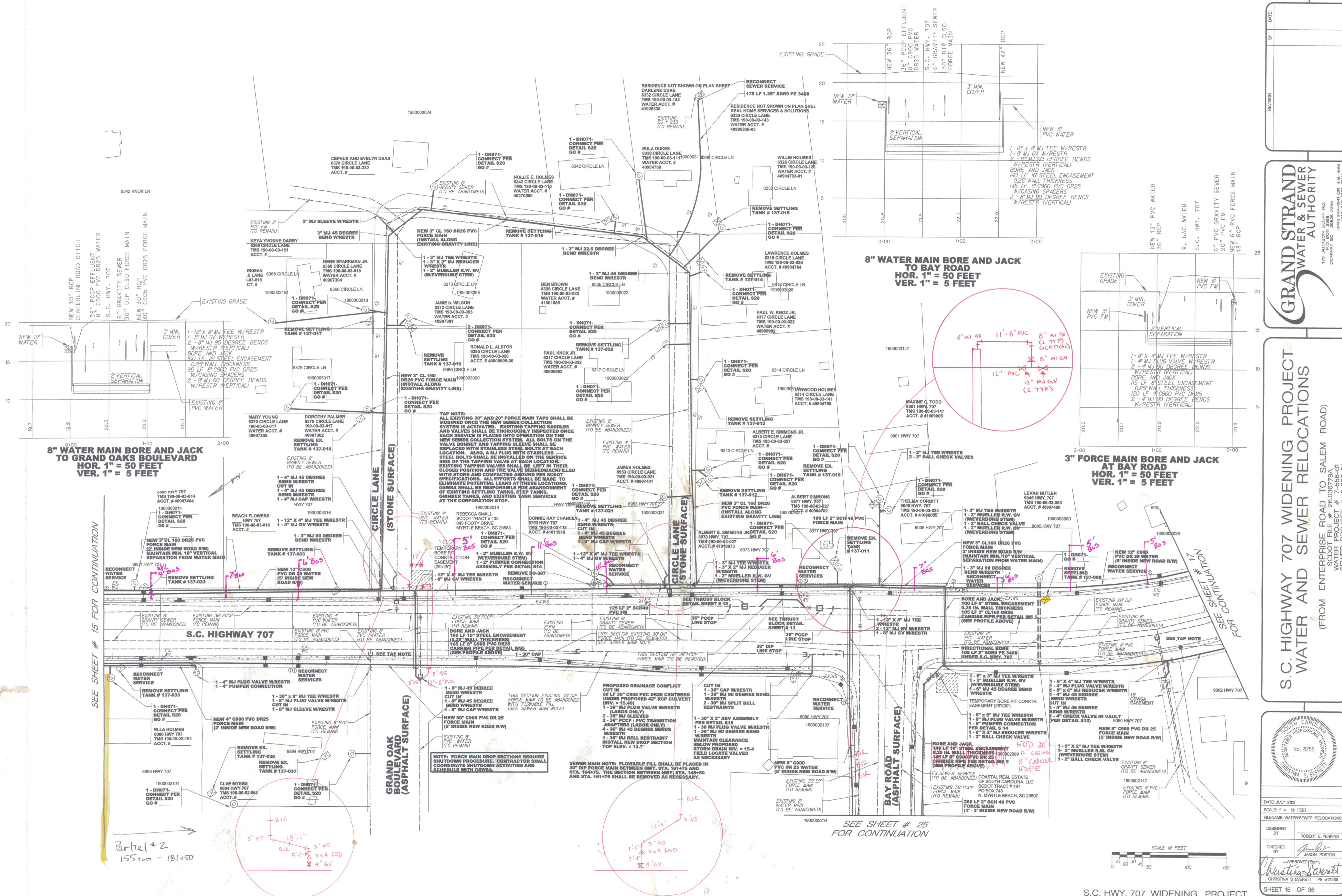
170 JACKSON BLVD. RD.
PO BOX 29028-2388
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S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS

(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: <i>Christina S. Everett</i>	
CHRISTINA S. EVERETT PE #21255	
SHEET 15 OF 36	



DATE: JULY 2018
SCALE: 1" = 50 FEET
FILENAME: WATER/SEWER RELOCATIONS

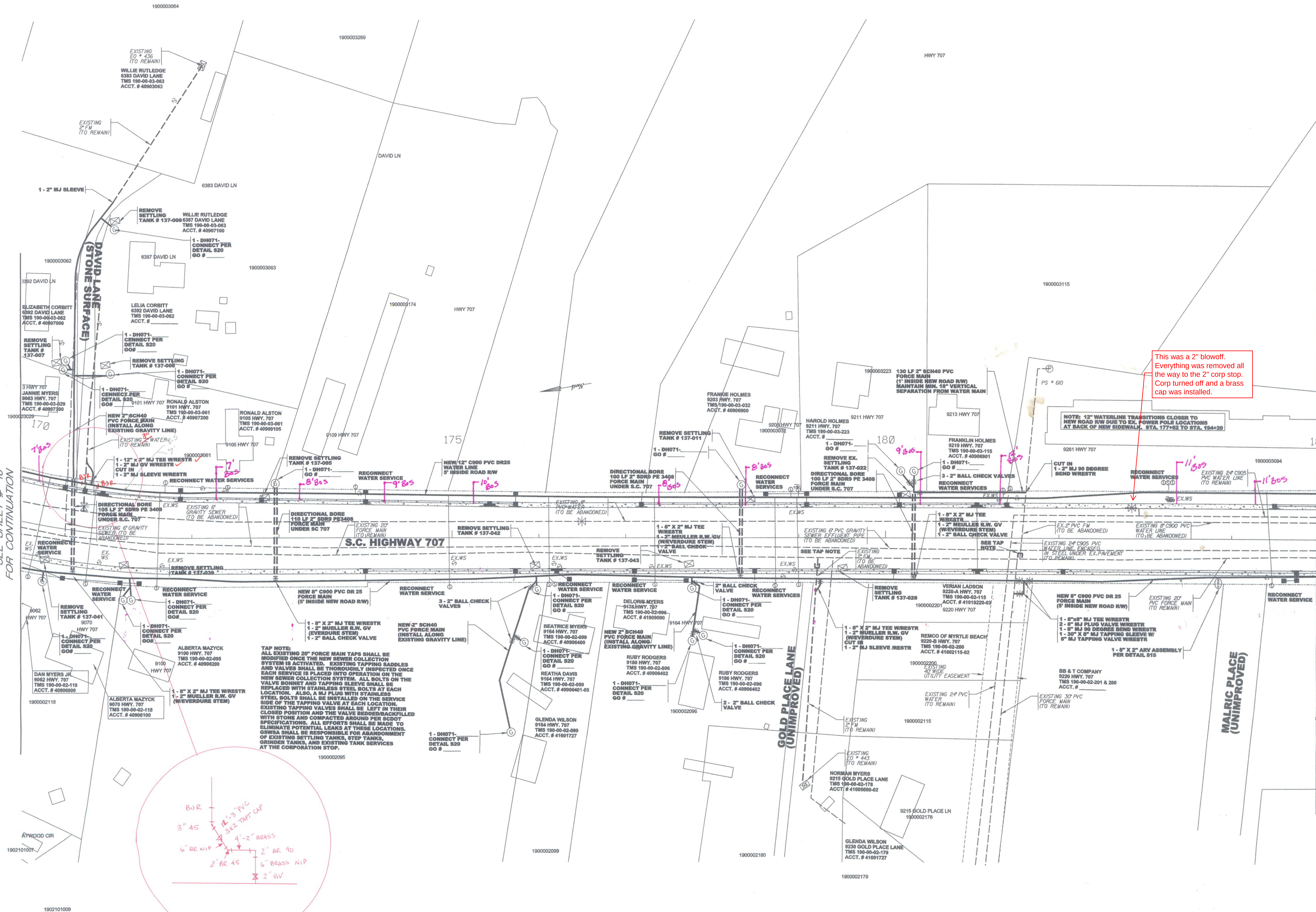
DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: CHRISTINA S. EVERETT
SHEET 16 OF 36

170 JACKSON BLUFF RD.
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EMAIL: GSWA@GSA.COM

GRAND STRAND WATER & SEWER AUTHORITY

S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS
(FROM ENTERPRISE ROAD TO SALEM ROAD)
SCDOT FILE # 26036779A
WATER PROJECT # 7-556-01
SEWER PROJECT # 8-926-01

SEE SHEET # 16
FOR CONTINUATION



This was a 2" blowoff.
Everything was removed all
the way to the 2" corp stop.
Corp turned off and a brass
cap was installed.

NOTE: 12" WATERLINE TRANSITIONS CLOSER TO
NEW ROAD R/W DUE TO EX. POWER POLE LOCATIONS
AT BACK OF NEW SIDEWALK. STA. 177+62 TO STA. 194+20

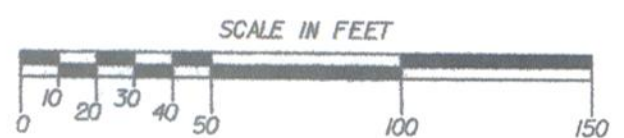
SEE SHEET # 18
FOR CONTINUATION

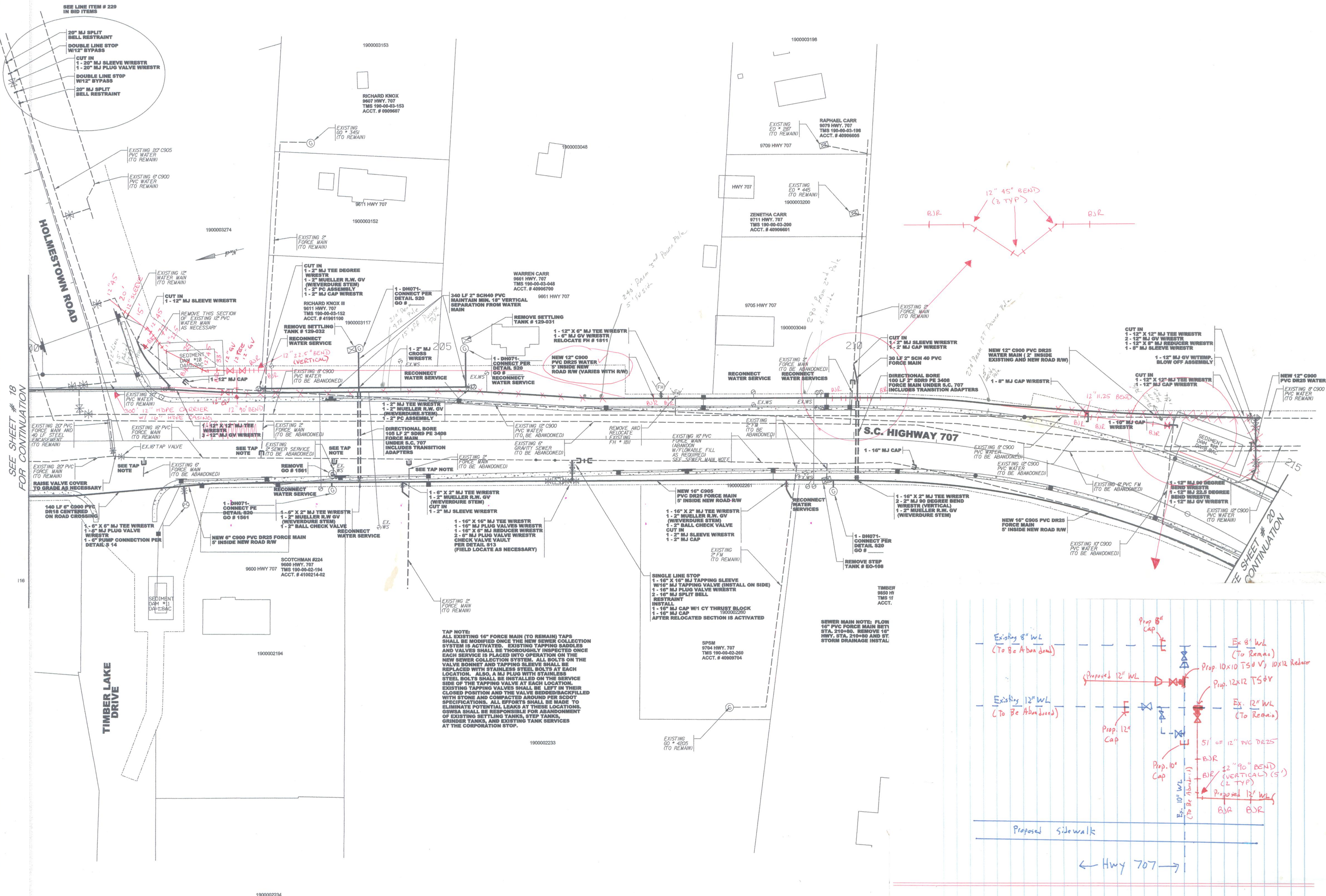
S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS

(FROM ENTERPRISE ROAD TO SALEM ROAD)
SCDOT FILE # 26.036779A
WATER PROJECT # 7-558-01
SEWER PROJECT # 8-928-01



DATE: JULY 2013
SCALE: 1" = 50 FEET
FILENAME: WATERSEWER RELOCATIONS
DESIGNED BY: ROBERT E. PERKINS
CHECKED BY: JASON POSTON
APPROVED BY: Christina S. Everett
SHEET 17 OF 36





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 19 OF 36

REASON: BY: DATE:

REASON: BY: DATE:

GRAND STRAND WATER & SEWER AUTHORITY

100 JACKSON BLUFF RD.
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CONWAY, SC 29524
(843) 347-4441 CR 445-1066
(843) 347-4440 FAX
E-MAIL: GSWA@GSA-SC.COM

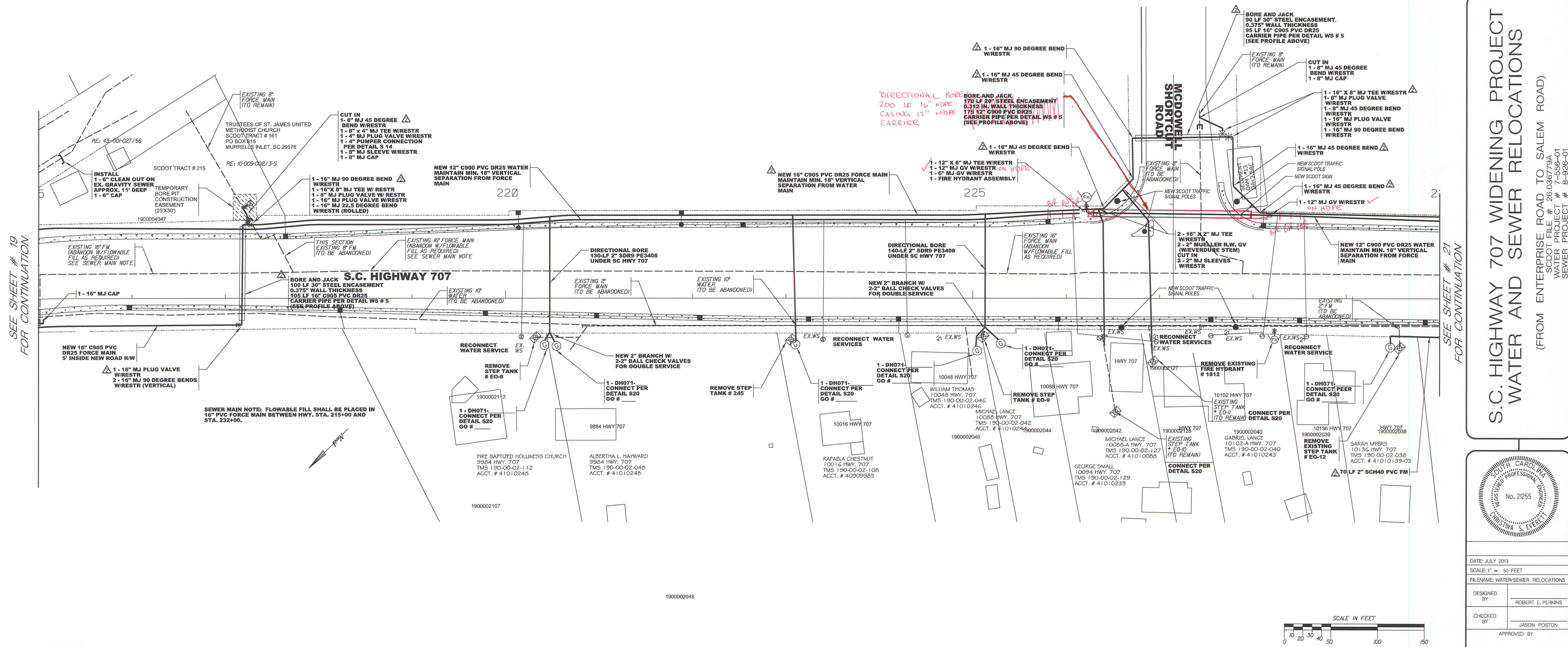
S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS

(FROM ENTERPRISE ROAD TO SALEM ROAD)

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

20255

No. 20255



SCDOT FILE # 26.036779A
WATER PROJECT # 7 556 01

WATER PROJECT #	SEWER PROJECT #
7-330-01	8-926-01



ME: WATER/SEWER RELOCATIONS

ED	
----	--

ROBERT E. PERKINS

☐ OKED	
---	--

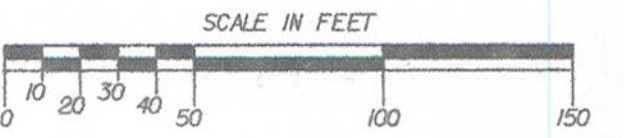
JASON POSTON

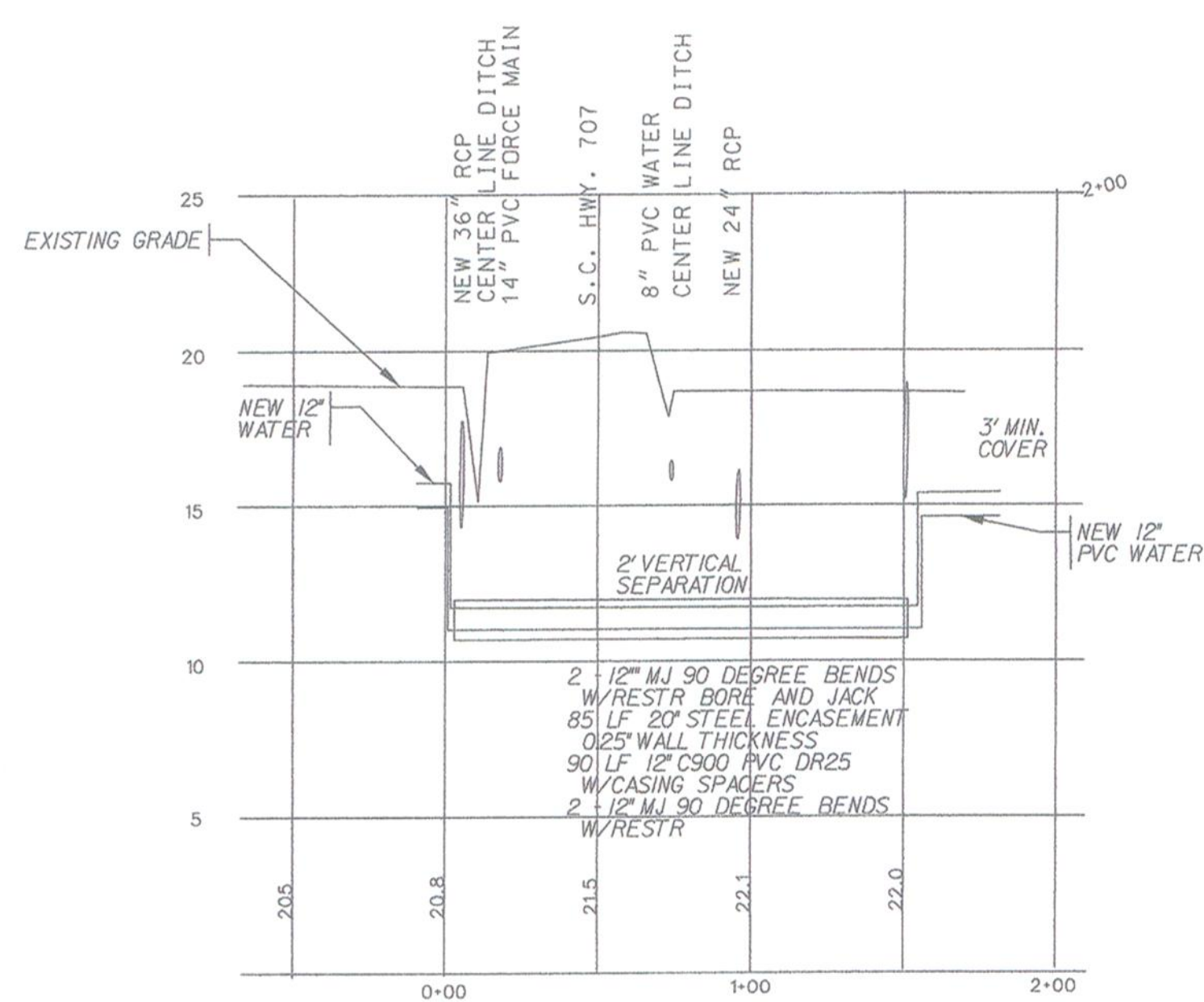
APPROVED BY

Justin & Everett

STINA S. EVERETT PE #21255

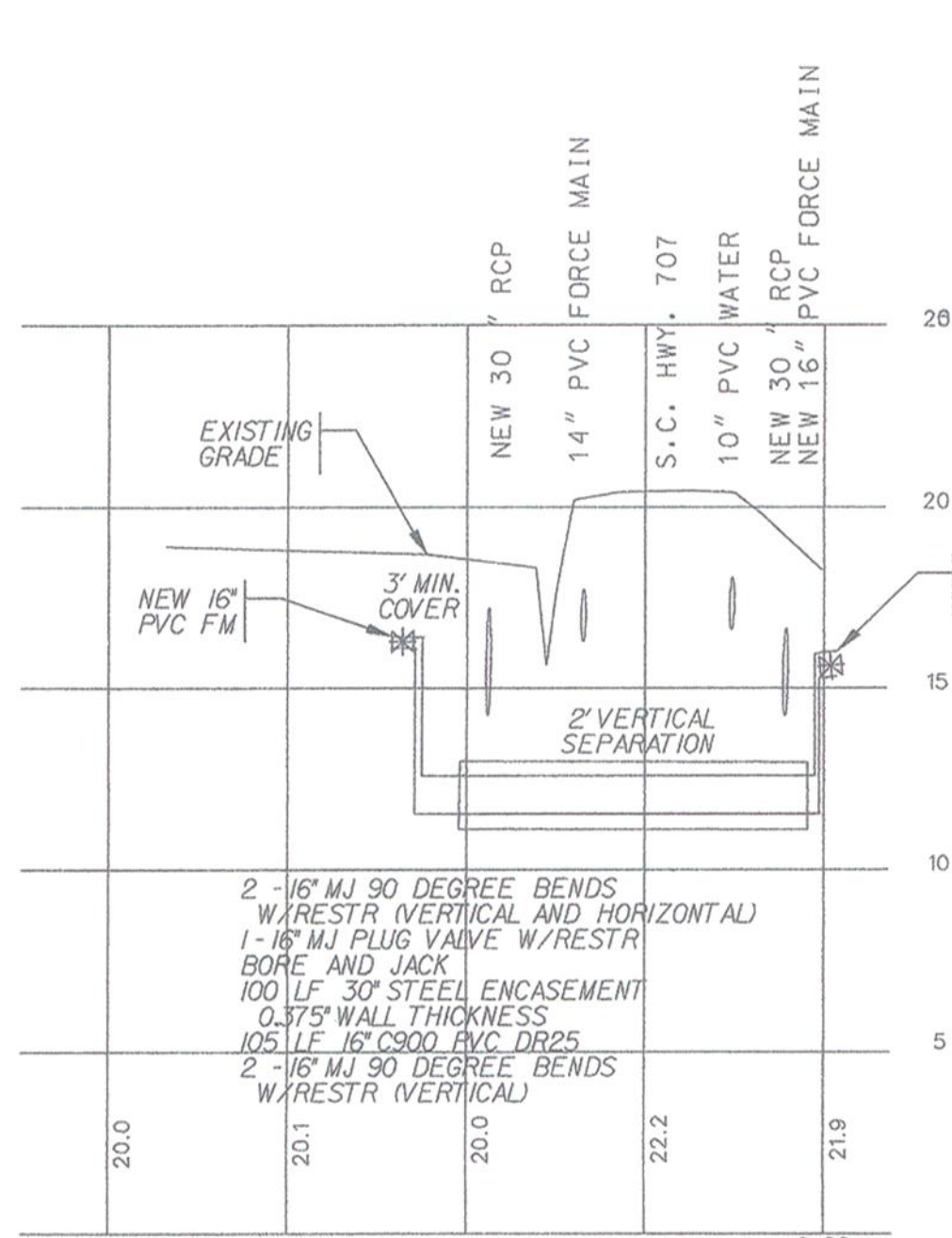
ET 22 OF 36



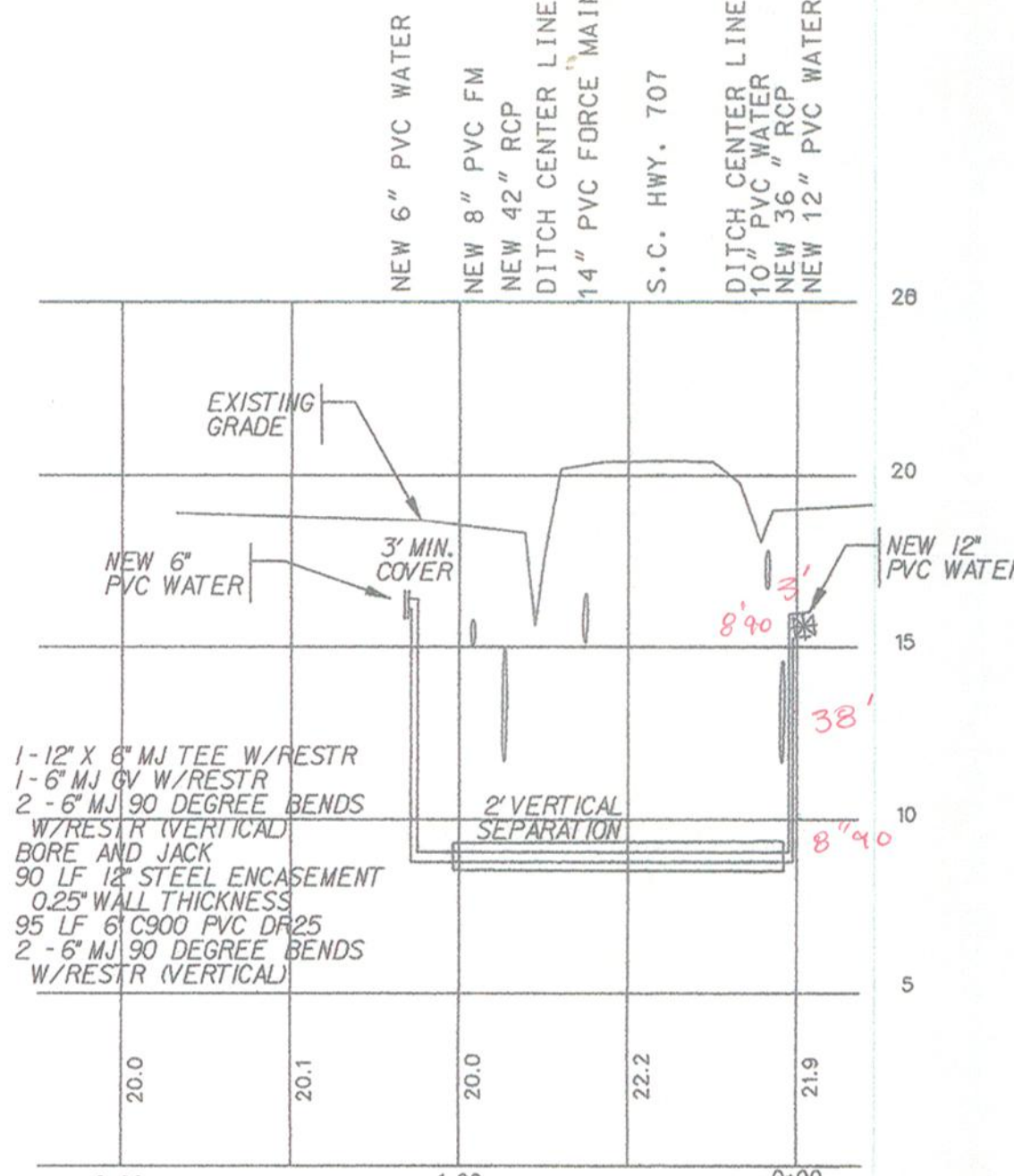


**12" WATER MAIN BORE AND JACK
NEAR STA. 260+32
HOR. 1" = 50 FEET
VER. 1" = 5 FEET**

1900004081

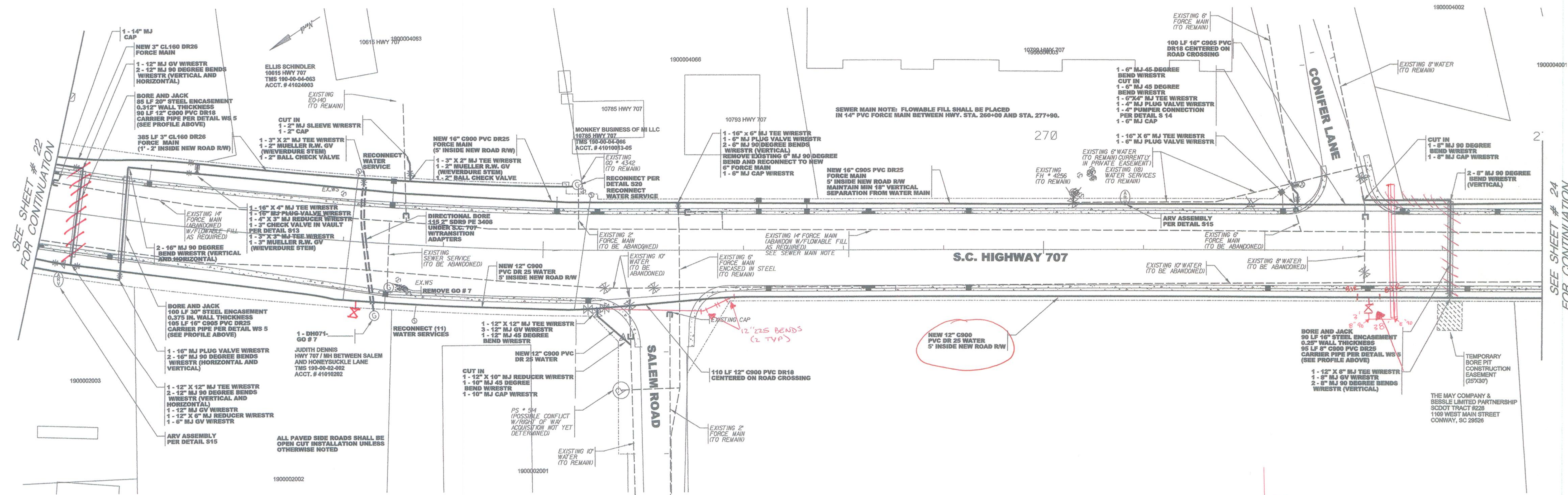


**16" FORCE MAIN BORE AND JACK
NEAR STA. 260+80
HOR. 1" = 50 FEET
VER. 1" = 5 FEET**



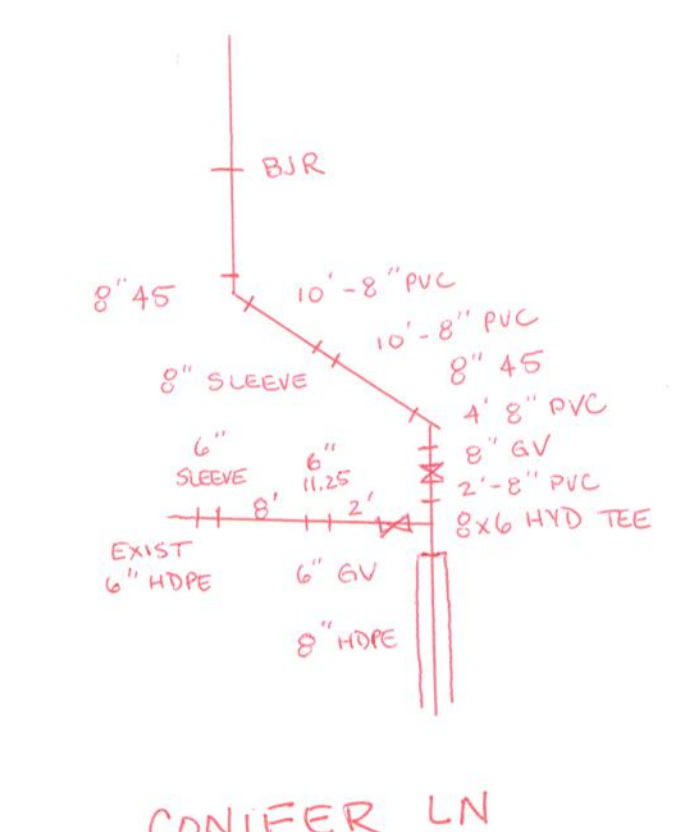
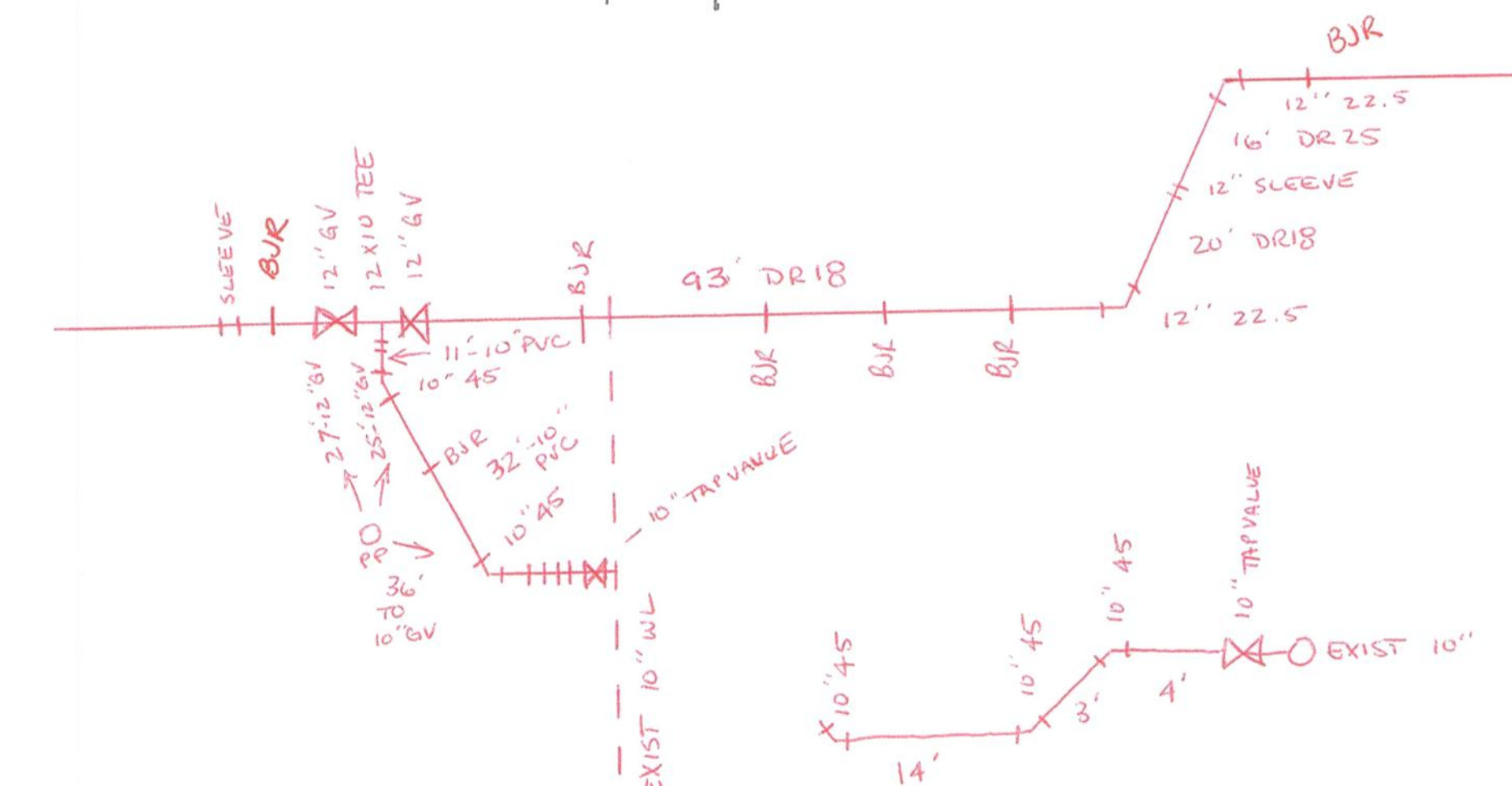
**8" WATER MAIN BORE AND JACK
TO CONIFER LANE
HOR. 1" = 50 FEET
VER. 1" = 5 FEET**

1900004002

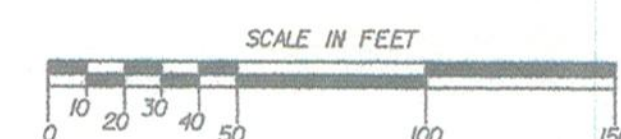


SEE SHEET # 22
FOR CONTINUATION

SEE SHEET # 24
FOR CONTINUATION



- 12 GV - 2
- 12 27.5 - 2
- 12 X10 TEE - 1
- 10 GV - 1
- 12 X8 TEE - 1
- 8 GV - 1
- 12 SLEEVE - 2
- 10 45 - 4
- 12 BJR - 8



S.C. HWY. 707 WIDENING PROJECT

DATE	BY
REVISION	

GRAND STRAND
WATER & SEWER
AUTHORITY

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CONWAY, SC 29526
(843) 847-4411 OR 418-1888
CONWAY, SC 29526
(843) 847-4411 OR 418-1888

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

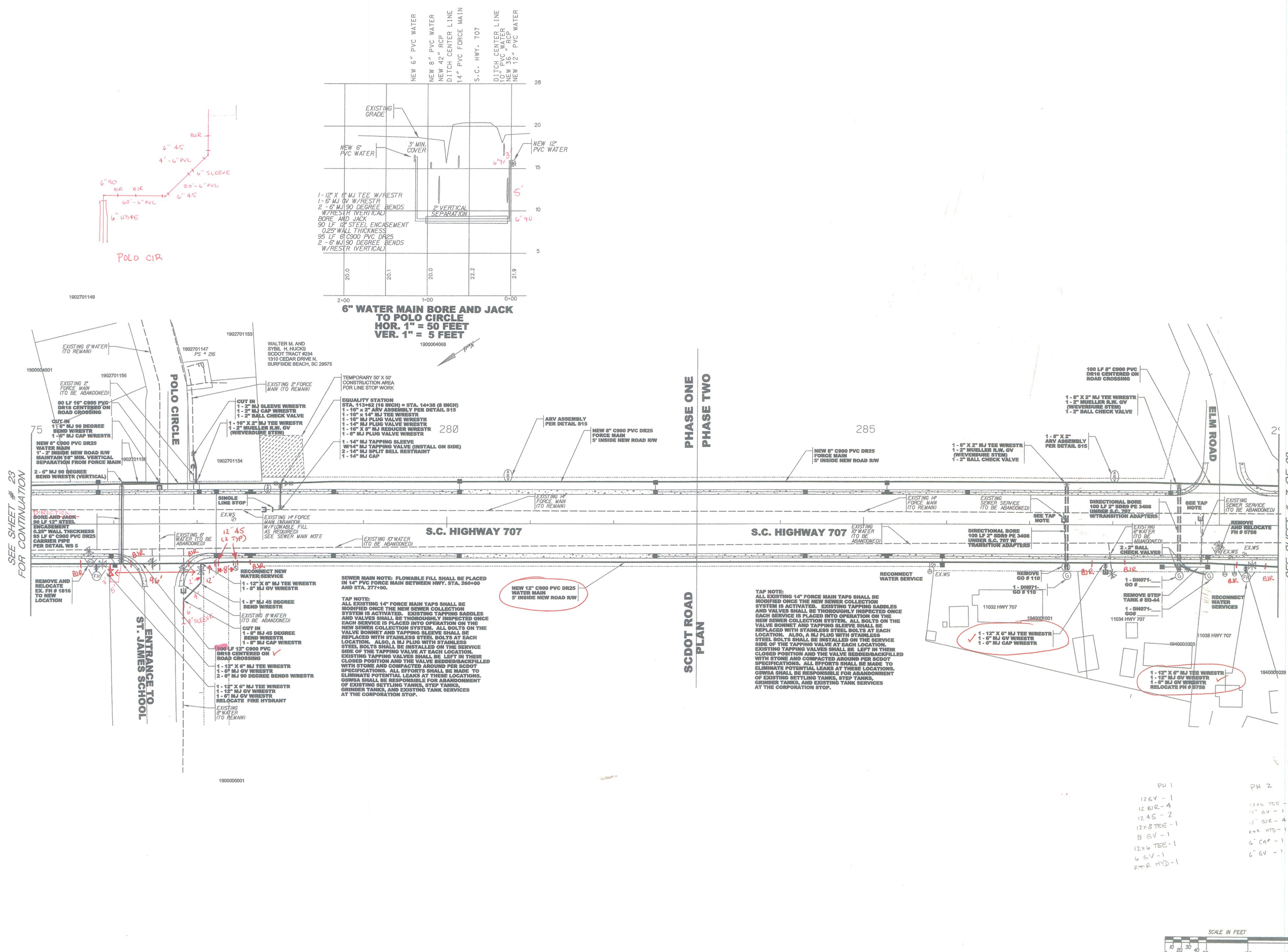
SCOTT FILE # 26.036799A
WATER PROJECT # 7-556-01
SEWER PROJECT # 8-926-01

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 21255
CHRISTINA S. EVERETT

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 23 OF 36



SEE SHEET # 23
FOR CONTINUATION

SEE SHEET # 7 OF 22
PHASE TWO FOR CONTINUATION

- PH 1
- 12x6 TEE - 1
 - 12x8 TEE - 1
 - 12x45 - 2
 - 12x8 TEE - 1
 - 8x6 V - 1
 - 12x6 TEE - 1
 - 6x6 V - 1
 - 6x8 HYD - 1
- PH 2
- 12x6 TEE - 1
 - 12x6 V - 1
 - 12x8 TEE - 4
 - 8x6 HYD - 1
 - 6x6 CAP - 1
 - 6x6 V - 1



DATE: _____
BY: _____
REVISION: _____

GRAND STRAND
WATER & SEWER
AUTHORITY

170 JACOBSON BLVD
SCOTSDALE, NC 27586
(919) 337-4041 OR 448-1886
FAX: (919) 337-4041
E-MAIL: GSWA@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 2013
SCALE: 1" = 50 FEET
FILENAME: WATER/SEWER RELOCATIONS

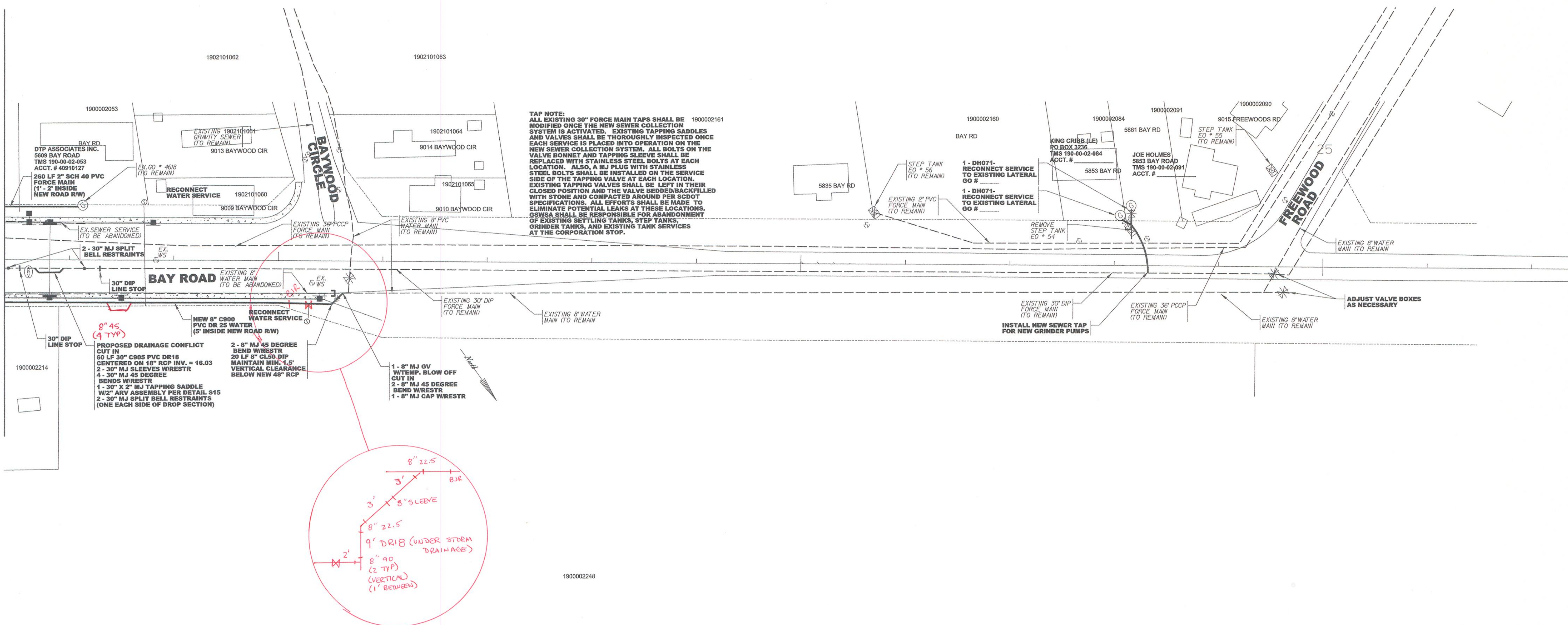
DESIGNED BY: ROBERT E. PERKINS

CHECKED BY: JASON POSTON

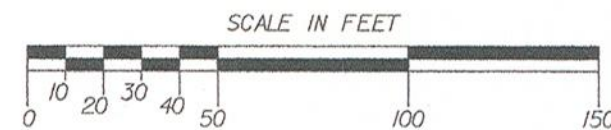
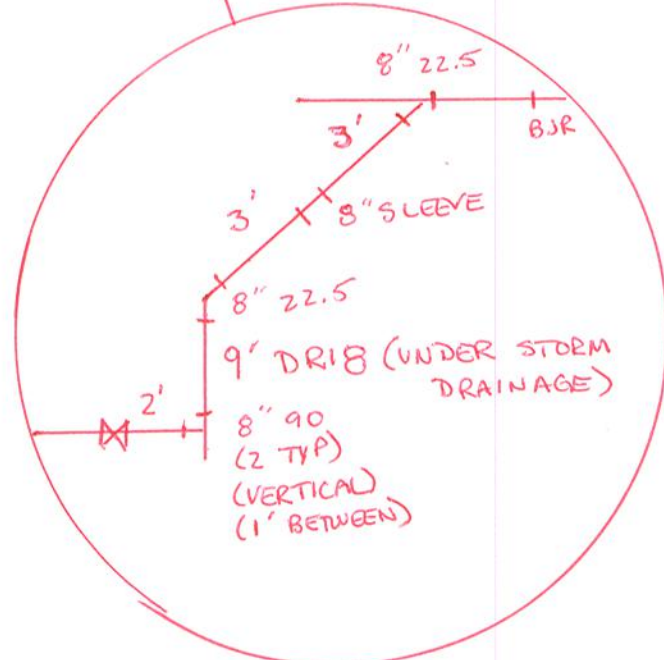
APPROVED BY: *Christina S. Everett*
CHRISTINA S. EVERETT PE #21255

SHEET 24 OF 36

SEE SHEET # 16 FOR CONTINUATION



TAP NOTE:
ALL EXISTING 30" 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. GSWSA SHALL BE RESPONSIBLE FOR ABANDONMENT OF EXISTING SETTLING TANKS, STEP TANKS, GRINDER TANKS, AND EXISTING TANK SERVICES AT THE CORPORATION STOP.



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 25 OF 36

REVISION

BY

DATE

GRAND STRAND WATER & SEWER AUTHORITY

170 JACKSON BLUFF RD.
PO BOX 3238
CONWAY, SC 29526-2388
(843) 347-4641 OR 448-1886
FAX: (843) 347-4690 (FAX)
E-MAIL: GSWSA@GSA.COM

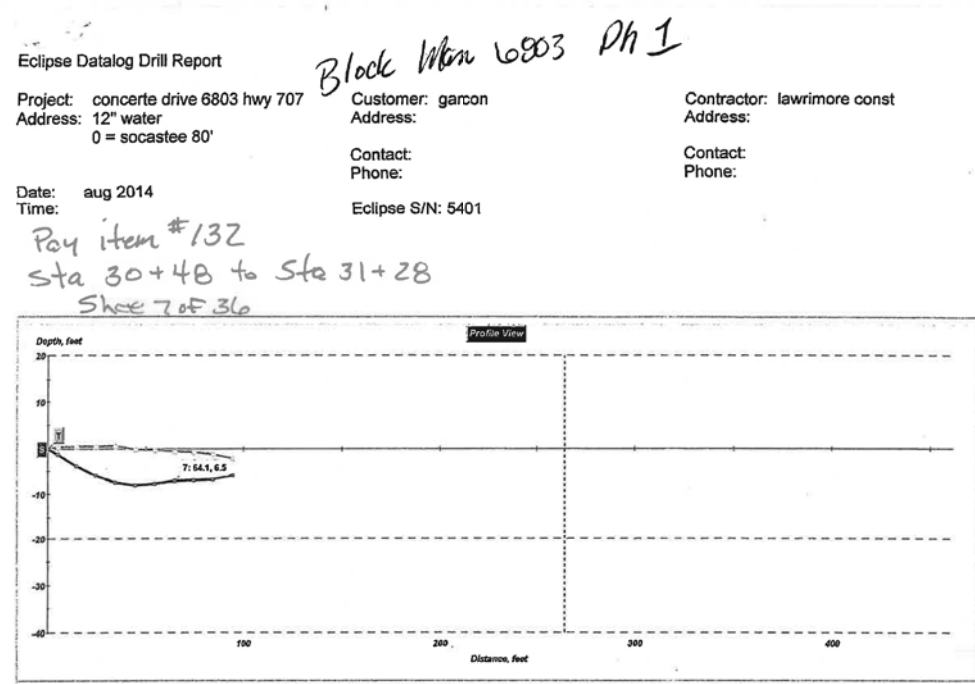
S.C. HIGHWAY 707 WIDENING PROJECT
WATER AND SEWER RELOCATIONS
(FROM ENTERPRISE ROAD TO SALEM ROAD)

SCDOT FILE # 26.036739A
WATER PROJECT # 7-556-01
SEWER PROJECT # 8-926-01

SEAL

NO. 21255

CHRISTINA S. EVERETT
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA



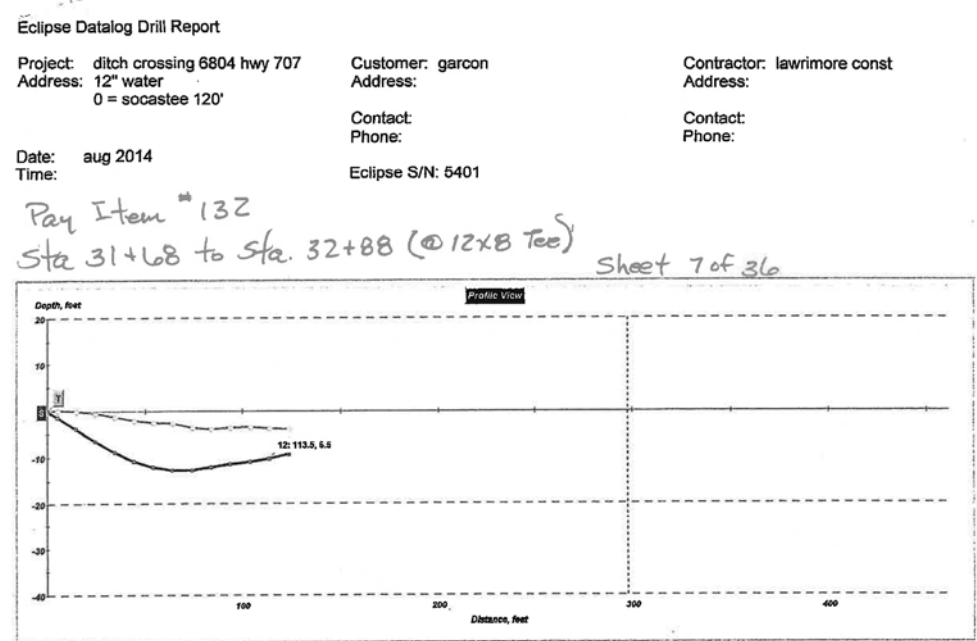
Digital Control Inc.
Page 1

SHEET # 7
WATER MAIN
STA. 30+48 TO STA. 31+28
80 LF 12.75" OD IPS DR17 HDPE UNDER
CONCRETE DRIVE NEAR 6803 HWY 707

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
0	0.00	-27.4	0.00	0.00	0.00	
1	4.81	-29.2	1.67	-1.36	0.31	
2	14.50	-21.8	4.30	-3.83	0.37	
3	24.27	-21.7	6.42	-5.97	0.45	
4	34.15	-9.5	8.02	-7.51	0.51	
5	44.14	-1.4	7.91	-8.05	0.28	
6	54.13	6.6	7.47	-7.79	-0.33	
7	64.11	5.5	6.54	-7.19	-0.65	
8	74.11	-1.2	6.06	-6.98	-0.52	
9	84.11	3.3	5.50	-6.88	-1.38	
10	94.07	16.0	3.71	-5.92	-2.21	

Digital Control Inc.
Page 2

This report contains a log of data taken by above ground sounding 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.



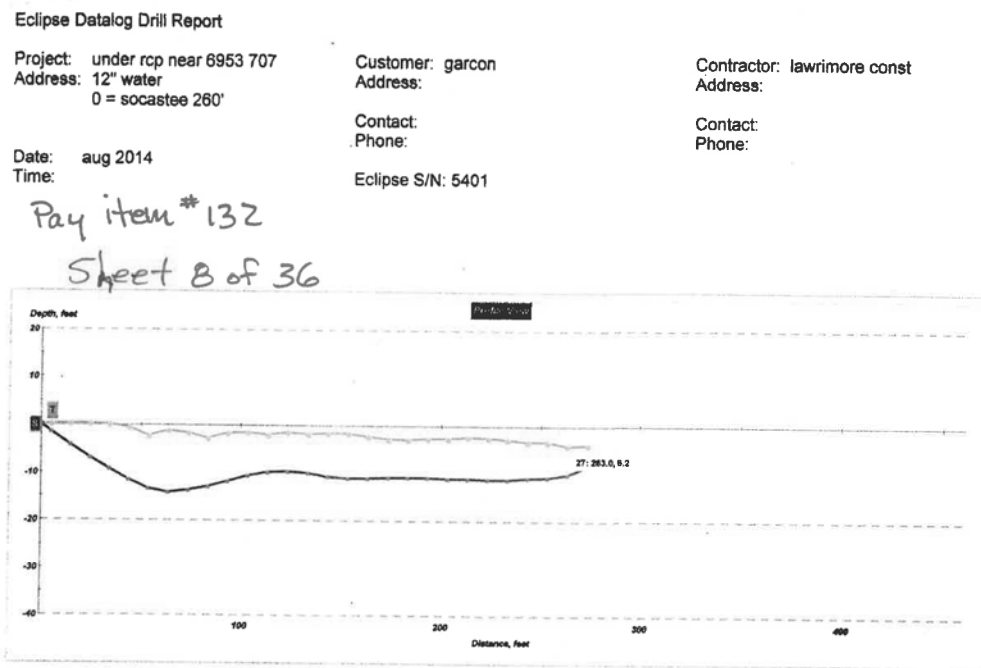
Digital Control Inc.
Page 1

SHEET # 7
WATER MAIN
STA. 31+68 TO STA. 32+88
120 LF 12.75" OD IPS DR17 HDPE UNDER
DITCH CROSSING NEAR 6804 HWY 707

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
0	0.00	-29.5	0.00	0.00	0.00	
1	4.82	-26.2	1.45	-1.32	0.14	
2	14.49	-26.4	3.75	-3.85	-0.10	
3	24.14	-27.9	5.93	-6.48	-0.55	
4	33.85	-22.0	7.82	-8.90	-1.28	
5	43.68	-15.3	8.58	-10.73	-2.15	
6	53.59	-10.8	9.39	-12.03	-2.64	
7	63.57	-3.8	9.85	-12.78	-2.81	
8	73.57	5.8	8.96	-12.69	-3.70	
9	83.55	5.8	8.04	-12.07	-4.04	
10	93.53	7.3	7.74	-11.42	-3.67	
11	103.52	2.5	7.46	-10.93	-3.47	
12	113.50	9.6	6.51	-10.32	-3.81	
13	123.45	10.3	5.39	-9.33	-4.05	

Digital Control Inc.
Page 2

This report contains a log of data taken by above ground sounding 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.



Digital Control Inc.
Page 1

SHEET # 8
WATER MAIN
STA. 41+44 TO STA. 44+44
300 LF 12.75" OD IPS DR17 HDPE UNDER
RCP CROSSING NEAR 6953 HWY 707

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
0	0.00	-29.3	0.00	0.00	0.00	
1	4.80	-29.4	1.65	-1.41	0.24	
2	14.40	-25.1	4.43	-4.21	0.22	
3	24.05	-25.3	7.04	-6.84	0.20	
4	33.75	-24.6	9.41	-9.38	0.16	
5	43.46	-24.3	11.15	-11.63	-0.49	
6	53.29	-13.4	11.14	-13.48	-2.34	
7	63.26	-1.1	12.98	-14.20	-1.23	
8	73.26	8.1	12.25	-13.85	-1.61	
9	83.23	8.0	10.39	-13.05	-2.66	
10	93.18	14.3	10.30	-11.95	-1.85	
11	103.07	13.0	9.05	-10.99	-1.54	
12	113.04	2.7	7.85	-9.81	-1.96	
13	123.04	-0.7	8.18	-9.71	-1.53	
14	133.04	-6.1	8.33	-10.05	-1.72	
15	143.01	-7.5	9.10	-10.73	-1.63	
16	153.00	-0.1	9.48	-11.11	-1.63	
17	163.00	0.0	8.92	-11.12	-2.20	
18	173.00	1.9	6.30	-11.02	-2.72	

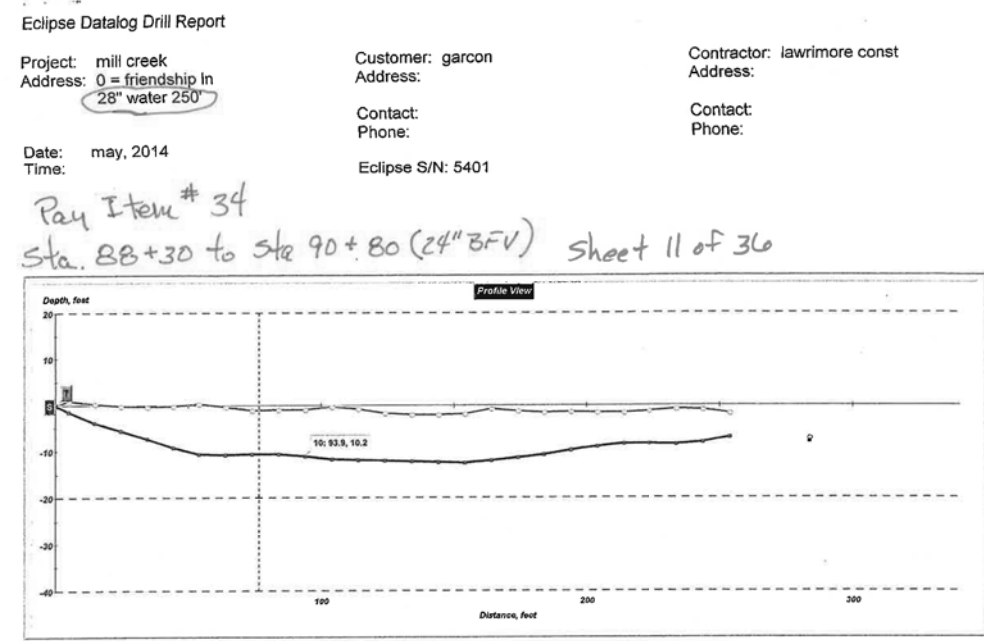
Digital Control Inc.
Page 2

This report contains a log of data taken by above ground sounding 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.

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
19	183.00	-0.2	8.08	-10.94	-2.89	
20	193.00	0.7	8.39	-10.91	-2.77	
21	203.00	-3.7	8.43	-11.08	-2.93	
22	213.00	1.4	8.91	-11.18	-2.92	
23	223.00	-3.8	9.87	-11.29	-2.42	
24	233.00	4.3	8.57	-11.27	-2.70	
25	243.00	1.5	7.77	-10.98	-3.21	
26	253.00	2.3	7.54	-10.79	-3.33	
27	262.98	10.4	6.23	-10.16	-3.62	
28	272.82	25.2	4.60	-8.42	-4.79	

Digital Control Inc.
Page 3

This report contains a log of data taken by above ground sounding 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.



Digital Control Inc.
Page 1

SHEET # 11
WATER TRANSMISSION MAIN
STA. 88+30 TO STA. 90+80
250 LF 26" OD IPS DR17 HDPE UNDER
MILL CREEK

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
0	0.00	-31.5	0.00	0.00	0.00	
1	4.78	-29.1	2.29	-1.45	0.64	
2	14.50	-19.6	4.15	-3.81	0.34	
3	24.35	-15.5	5.28	-5.54	-0.26	
4	34.20	-18.5	6.92	-7.26	-0.33	
5	44.01	-20.1	9.01	-9.20	-0.19	
6	53.92	-7.6	10.87	-10.57	0.31	
7	63.92	3.3	10.39	-10.76	-0.39	
8	73.91	10.0	9.41	-10.57	-1.15	
9	83.91	-3.0	9.68	-10.66	-0.98	
10	93.90	-7.4	10.18	-11.18	-1.01	
11	103.89	-3.5	11.36	-11.72	-0.36	
12	113.88	0.0	10.98	-11.90	-0.92	
13	123.88	2.1	10.30	-12.05	-1.75	
14	133.88	-0.8	10.07	-12.24	-2.17	
15	143.88	-3.0	10.25	-12.43	-2.18	
16	153.88	1.6	10.83	-12.50	-1.87	
17	163.87	6.3	11.21	-12.10	-0.90	
18	173.85	6.1	10.19	-11.48	-1.30	

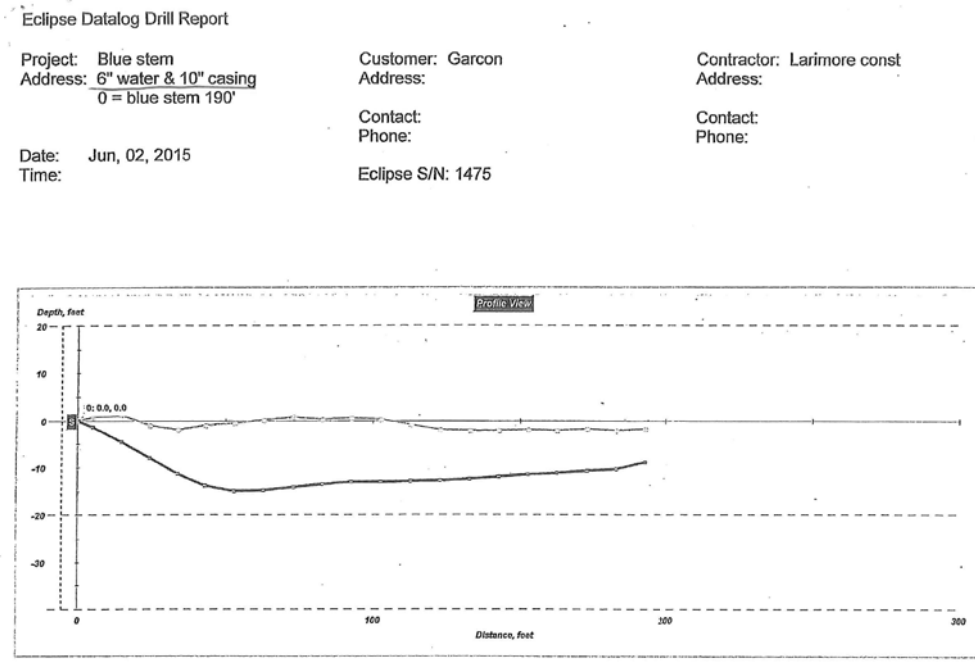
Digital Control Inc.
Page 2

This report contains a log of data taken by above ground sounding 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.

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
19	183.82	8.8	9.14	-10.74	-1.60	
20	193.78	9.3	8.40	-9.84	-1.44	
21	203.75	7.8	7.41	-8.99	-1.58	
22	213.73	2.4	6.81	-8.48	-1.67	
23	223.73	-0.8	7.14	-8.40	-1.27	
24	233.73	-1.3	7.71	-8.51	-0.80	
25	243.73	8.4	7.16	-8.16	-0.99	
26	253.65	16.3	5.19	-6.93	-1.75	
27	263.60					b
28	273.60					b
29	283.47	-22.7	0.79	-7.87	-7.08	

Digital Control Inc.
Page 3

This report contains a log of data taken by above ground sounding 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.



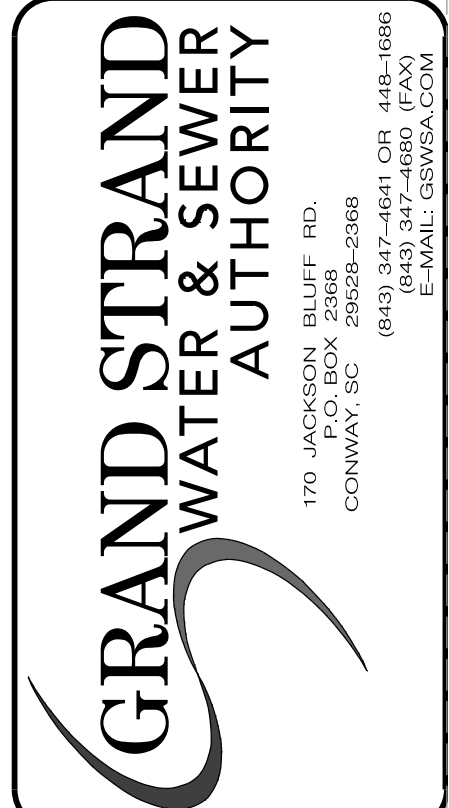
PAY ITEM # 22
PIPE LENGTH 190'
SHEET # 13
STA 114+00

Digital Control Inc.
Page 1

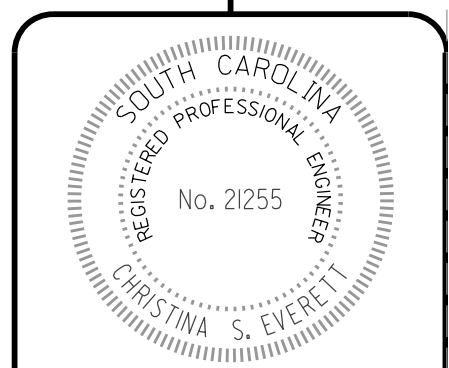
SHEET # 13
WATER MAIN
STA. 114+00
190 LF 6.625" OD IPS DR17 HDPE ENCASED
W / 180 LF 10.75" OD IPS DR17 HDPE
UNDER HWY 707 NEAR BLUE STEM ROAD

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
0	0.00	-27.2	0.00	0.00	0.00	
1	4.81	-29.9	2.16	-1.37	0.78	
2	14.30	-36.2	5.88	-4.51	1.17	
3	23.71	-36.2	8.85	-7.82	-1.05	
4	33.12	-35.4	9.32	-11.28	-6.69	
5	42.79	-17.8	12.80	-13.84	-1.04	
6	52.74	-3.1	14.34	-14.97	-0.53	
7	62.73	5.7	14.84	-14.74	0.10	
8	72.71	7.5	14.84	-14.08	0.75	
9	82.69	5.0	13.74	-13.46	0.29	
10	92.69	2.8	13.64	-13.07	0.57	
11	102.68	0.0	13.20	-12.92	0.27	
12	112.68	2.1	11.91	-12.82	-0.91	
13	122.68	1.3	10.76	-12.64	-1.99	
14	132.68	4.2	10.26	-12.37	-1.67	
15	142.67	5.1	9.88	-11.90	-2.08	
16	152.66	3.1	9.48	-11.60	-2.05	
17	162.65	4.9	9.02	-11.10	-2.02	
18	172.64	2.9	8.86	-10.71	-2.00	

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
19	182.63	5.8	8.18	-10.27	-1.93	
20	192.55	21.1	7.20	-8.95	-1.74	

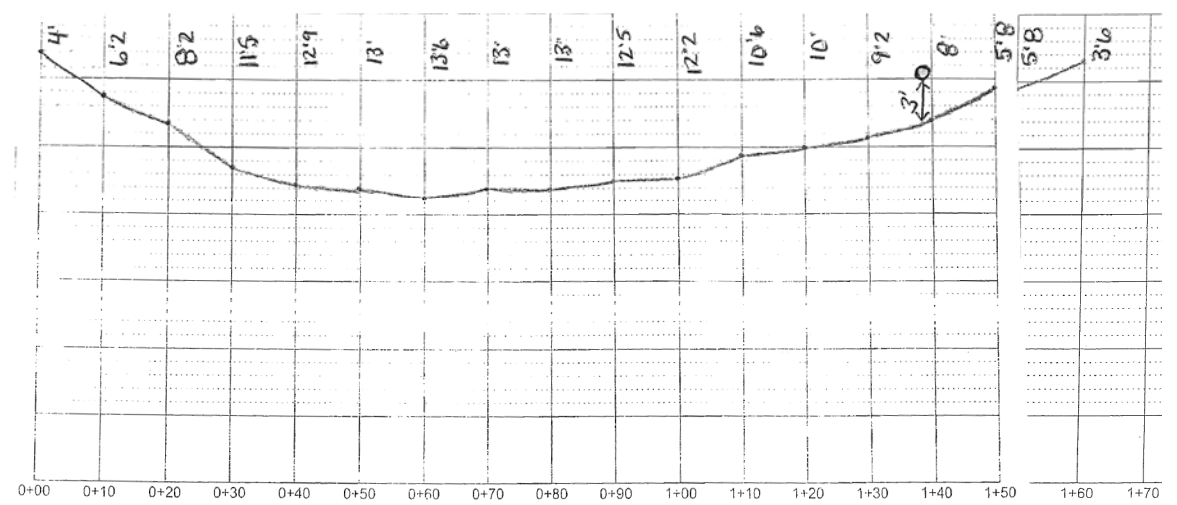
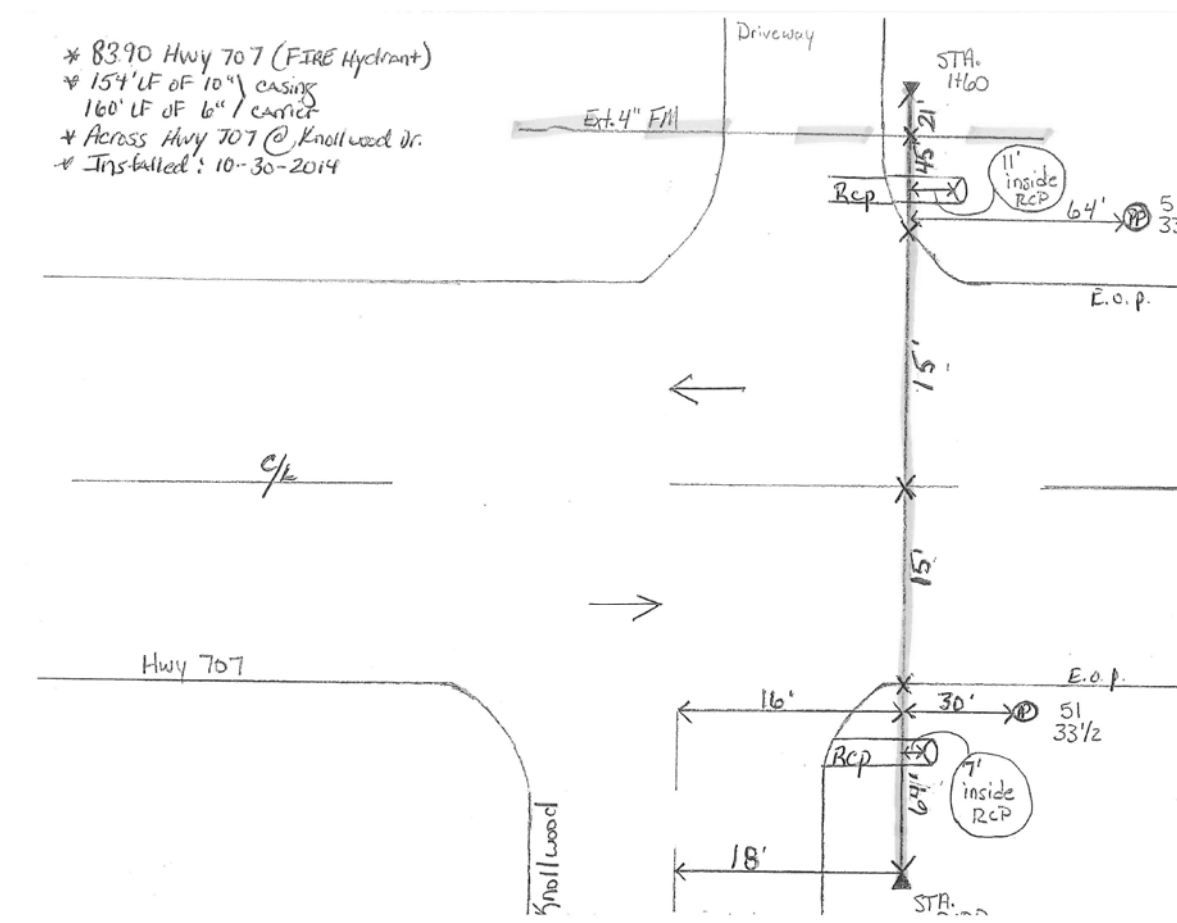


S.C. HIGHWAY 707 WIDENING PROJECT
WATER RELOCATIONS
(FROM GREEN BAY CIRCLE TO POLO CIRCLE)
SCDOT FILE # 26.036779A
WATER PROJECT # 7-556-01



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 4	

S.C. HWY. 707 WIDENING PROJECT
PHASE ONE WATER BORE LOGS

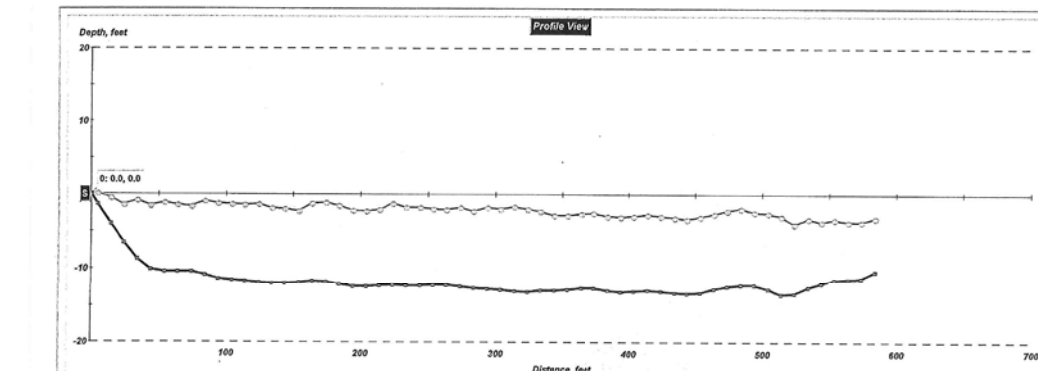


GSWSA Actual Drilling Data Log

Project Name: 8390 Hwy 707 (Fire Hydrant)	
Project Number: WDC 620159	
Location (incl. road name/number): S.C. HWY 707 / Knollwood Dr.	
SCDOT Permit #: 10-00300	
Date of Installation: 10/09/2014	
HDPE Casing Length / Size: 154' LF of 6.625\"/>	

SHEET # 14
WATER MAIN
STA. 131+20
160 LF 6.625" OD IPS DR17 HDPE ENCASED
W / 154 LF 10.75" OD IPS DR17 HDPE
UNDER HWY 707 NEAR KNOLLWOOD DRIVE

Eclipse Datalog Drill Report
 Project: knollwood to tern hall
 Address: 12" water
 0 = knollwood 580'
 Date: Jun, 30, 2015
 Time:
 Customer: Garcon
 Address:
 Contact: Phone:
 Eclipse SN: 1475
 Contractor: Lawmore const
 Address:
 Contact: Phone:



PAY ITEM #138
 PIPE LENGTH 580'
 STA 131+75 TO 137+55
 SHEET 14 OF 26

Digital Control Inc.
 Page 1

Eclipse Datalog Drill Report:		knollwood to tern hall		Eclipse SN: 1475,		Jun, 30, 2015	
Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type	
0	0.00	-29.2	0.00	0.00	0.00		
1	4.81	-26.9	1.49	-1.36	0.14		
2	14.47	-26.9	3.40	-3.96	-4.46		
3	24.12	-27.2	5.09	-6.66	-6.32		
4	33.67	-18.5	7.96	-8.78	-0.80		
5	43.79	-7.3	8.50	-10.06	-10.05		
6	53.78	-0.6	9.34	-10.40	-1.12		
7	63.76	1.8	8.57	-10.41	-1.44		
8	73.76	-2.6	8.78	-10.46	-1.68		
9	83.77	-6.2	9.99	-10.89	-0.90		
10	93.76	-3.1	10.07	-11.36	-11.51		
11	103.76	-0.7	10.19	-11.55	-11.03		
12	113.76	-2.9	10.21	-11.73	-1.52		
13	123.76	-0.7	10.62	-11.91	-1.39		
14	133.76	-0.5	10.08	-11.97	-11.67		
15	143.76	-0.5	10.07	-12.02	-1.95		
16	153.76	3.8	9.55	-11.86	-2.31		
17	163.76	-0.3	10.43	-11.69	-11.75		
18	173.75	-2.0	10.67	-11.80	-10.62		

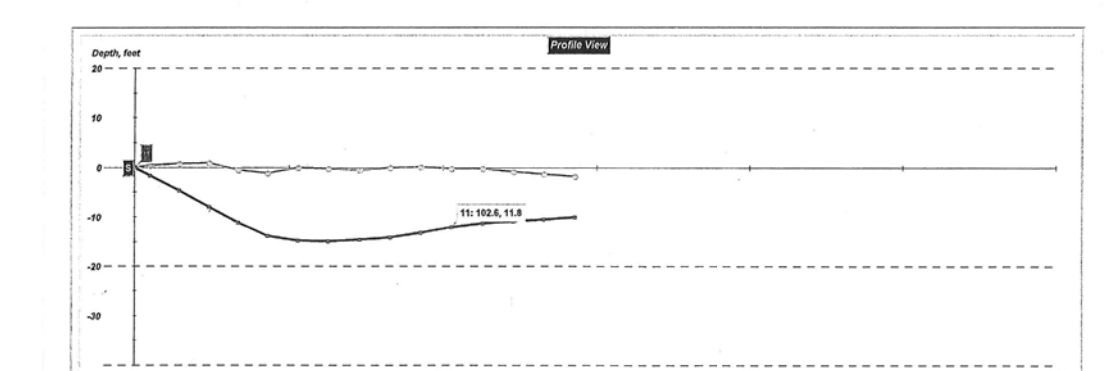
Digital Control Inc.
 Page 2

Eclipse Datalog Drill Report:		knollwood to tern hall		Eclipse SN: 1475,		Jun, 30, 2015	
Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type	
19	183.75	-3.6	10.49	-12.08	-1.59		
20	193.75	-2.2	10.19	-12.37	-12.54		
21	203.75	2.0	10.04	-12.38	-12.01		
22	213.75	-0.3	10.24	-12.30	-12.30		
23	223.75	1.4	10.95	-12.24	-12.33		
24	233.75	-2.6	10.47	-12.30	-1.83		
25	243.75	2.2	10.54	-12.33	-8.23		
26	253.74	0.7	10.16	-12.18	-2.02		
27	263.74	-1.4	10.13	-12.22	-2.06		
28	273.74	-2.3	10.59	-12.40	-1.81		
29	283.74	-1.7	10.24	-12.60	-2.36		
30	293.74	-0.4	10.88	-12.70	-1.82		
31	303.74	-1.8	10.77	-12.81	-2.04		
32	313.74	-3.8	11.42	-13.09	-1.87		
33	323.74	2.9	11.10	-13.13	-12.60		
34	333.73	0.2	10.69	-12.97	-2.29		
35	343.73	0.5	10.09	-12.94	-3.34		
36	353.73	2.2	9.95	-12.80	-2.85		
37	363.73	0.8	10.06	-12.85	-2.68		

Digital Control Inc.
 Page 3

SHEET # 14
WATER MAIN
STA. 131+75 TO STA. 137+55
580 LF 12.75" OD IPS DR17 HDPE
UNDER KNOLLWOOD DRIVE TO TERN HALL DRIVE

Eclipse Datalog Drill Report
 Project: sunny boy ln
 Address: 6" water in 10" casing
 0 = sunny boy 140'
 Date: Jun, 16, 2015
 Time:
 Customer: Garcon
 Address:
 Contact: Phone:
 Eclipse SN: 1475
 Contractor: Lawmore const
 Address:
 Contact: Phone:



PAY ITEM #25
 PIPE LENGTH 140'
 STA 141+00
 SHEET 15 OF 36

Digital Control Inc.
 Page 1

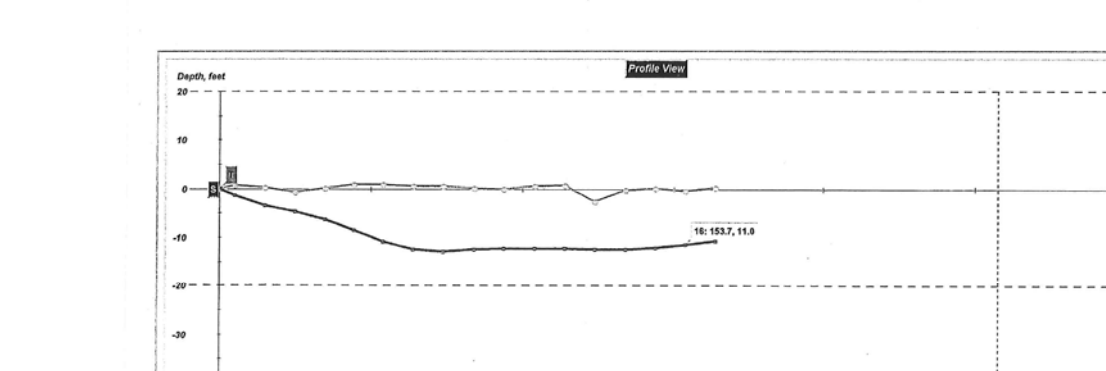
SHEET # 15
WATER MAIN
STA. 141+00
140 LF 6.625" OD IPS DR17 HDPE ENCASED
W / 130 LF 10.75" OD IPS DR17 HDPE
UNDER HWY 707 AT SUNNY BOY LANE

Eclipse Datalog Drill Report:		sunny boy ln		Eclipse SN: 1475,		Jun, 16, 2015	
Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type	
0	0.00	-34.2	0.00	0.00	0.00		
1	4.74	-32.9	2.02	-1.59	0.43		
2	14.24	-32.7	5.40	-4.71	0.69		
3	23.73	-34.0	8.74	-7.87	-9.49		
4	33.18	-35.2	10.58	-11.14	-13.57		
5	42.83	-19.5	12.55	-13.76	-13.70		
6	52.77	-1.6	14.78	-14.81	-0.02		
7	62.77	0.5	14.65	-14.86	-0.10		
8	72.77	3.6	14.08	-14.66	-0.05		
9	82.76	7.2	14.05	-14.12	0.68		
10	92.71	11.8	13.32	-13.17	-6.32		
11	102.65	10.9	11.78	-12.04	0.72		
12	112.62	4.3	11.05	-11.29	-2.11		
13	122.61	4.3	10.02	-10.86	2.01		
14	132.60	4.3	9.06	-10.43	-10.99		
15	142.59	4.9	8.24	-9.97	-9.36		

Digital Control Inc.
 Page 2

This report contains a log of data taken by above ground boring 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 Datalog Drill Report
 Project: grand oaks blvd
 Address: 6" water in 12" casing
 0 = grand oaks 140'
 Date: Jun, 22, 2015
 Time:
 Customer: Garcon
 Address:
 Contact: Phone:
 Eclipse SN: 1475
 Contractor: Lawmore const
 Address:
 Contact: Phone:



PAY ITEM #26
 PIPE LENGTH 140'
 STA 159+50
 SHEET 16 OF 36

Digital Control Inc.
 Page 1

SHEET # 16
WATER MAIN
STA. 159+50
140 LF 8.625" OD IPS DR17 HDPE ENCASED
W / 130 LF 12.75" OD IPS DR17 HDPE
UNDER HWY 707 AT GRAND OAK BOULEVARD

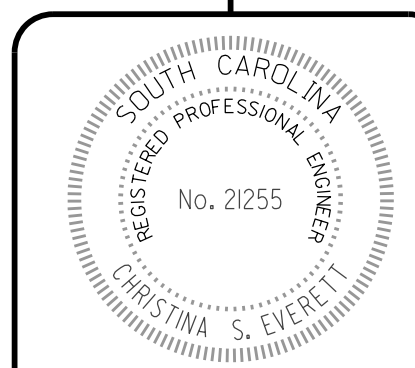
Eclipse Datalog Drill Report:		grand oaks blvd		Eclipse SN: 1475,		Jun, 22, 2015	
Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type	
0	0.00	-26.5	0.00	0.00	0.00		
1	4.83	-26.3	2.02	-1.29	0.74		
2	14.61	-16.7	3.69	-3.37	0.22		
3	24.53	-9.0	3.99	-4.64	-4.81		
4	34.42	-21.8	6.23	-6.16	0.07		
5	44.15	-25.2	9.40	-8.45	0.95		
6	53.87	-23.4	11.71	-10.81	0.89		
7	63.73	-9.8	13.08	-12.44	0.63		
8	73.72	1.7	13.47	-12.85	0.07		
9	83.72	6.3	12.57	-12.45	-13.00		
10	93.71	-0.5	12.05	-12.16	-11.47		
11	103.71	-0.5	12.84	-12.21	-11.32		
12	113.71	-0.5	12.97	-12.26	-11.25		
13	123.71	-0.4	9.74	-12.30	-2.66		
14	133.71	-0.3	12.05	-12.34	-0.29		
15	143.71	6.7	12.16	-12.02	0.14		
16	153.68	6.7	11.00	-11.36	0.65		
17	163.66	6.7	11.00	-10.66	-10.66		

Digital Control Inc.
 Page 2

This report contains a log of data taken by above ground boring 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.



S.C. HIGHWAY 707 WIDENING PROJECT
WATER RELOCATIONS
 (FROM GREEN BAY CIRCLE TO POLO CIRCLE)
 SCDOT FILE # 26.036779A
 WATER PROJECT # 7-556-01



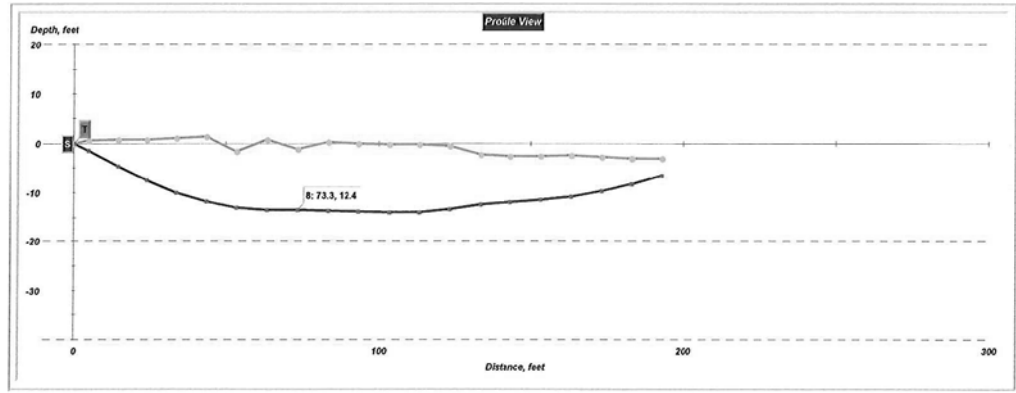
DATE: MAY 2012
 SCALE: N.T.S.
 FILENAME: WATER/SEWER RELOCATIONS

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

CHRISTINA S. EVERETT PE #21255
 SHEET 2 OF 4

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

Eclipse Datalog Drill Report
Project: north side bay rd
Address: 8" water in 12" casing
0 = main line 200'
Date: Mar, 25, 2015
Time:
Customer: Garcon
Address:
Contact:
Phone:
Contractor: Lawmore const
Address:
Contact:
Phone:
Eclipse SN: 5401



PAY ITEM # 27
PIPE LENGTH 200'
STA 165+50
SHEET 16 OF 36

Digital Control Inc.
Page 1

SHEET # 16
WATER MAIN
STA. 165+50
200 LF 8.625" OD IPS DR17 HDPE ENCASED
W /190 LF 12.75" OD IPS DR17 HDPE
UNDER HWY. 707 AT BAY ROAD

Eclipse Datalogger Drill Report: north side bay rd, Eclipse SN: 5401, Mar, 25, 2015						
Rod	xDist (ft)	Pitch (%)	Depth (ft)	Depth (ft)	Rel. Elev. (ft)	Type
0	0.00	-28.9	0.00	0.00	0.00	
1	4.77	-33.4	2.13	-1.49	0.64	
2	14.27	-32.3	5.38	-4.61	0.78	
3	23.85	-28.3	8.29	-7.50	0.79	
4	33.54	-22.1	11.04	-9.95	1.10	
5	43.37	-16.4	13.20	-11.79	1.41	
6	53.29	-9.9	11.38	-13.04	-1.68	
7	63.28	0.8	14.17	-13.49	0.68	
8	73.28	-1.4	12.41	-13.62	-1.11	
9	83.28	-1.4	13.91	-13.66	0.25	
10	93.38	-1.3	13.80	-13.79	0.01	
11	103.28	-1.3	13.75	-13.82	-0.17	
12	113.28	0.2	13.71	-13.98	-0.26	
13	123.26	13.2	12.74	-13.31	-0.58	
14	133.22	5.1	10.11	-12.40	-2.30	
15	143.20	5.4	9.38	-11.88	-2.89	
16	153.19	5.0	8.80	-11.36	-2.56	
17	163.17	6.8	8.30	-10.77	-2.47	
18	173.12	13.6	6.96	-9.75	-2.89	

Eclipse Datalogger Drill Report: north side bay rd, Eclipse SN: 5401, Mar, 25, 2015						
Rod	xDist (ft)	Pitch (%)	Depth (ft)	Depth (ft)	Rel. Elev. (ft)	Type
19	183.01	16.9	5.17	-8.29	-3.12	
20	192.65	29.3	3.43	-6.51	-3.06	

Digital Control Inc.
Page 2

This report contains a log of data taken by above ground sounding equipment during better 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.

SHEET # 18
WATER MAIN
STA. 188+00
120 LF 8.625" OD IPS DR17 HDPE ENCASED
W /110 LF 12.75" OD IPS DR17 HDPE
UNDER HWY. 707 AT BRIGHTON AVENUE

Eclipse Datalogger Drill Report: Brighton ave., Eclipse SN: 5401, Apr 30, 2015						
Rod	xDist (ft)	Pitch (%)	Depth (ft)	Depth (ft)	Rel. Elev. (ft)	Type
0	0.00	-20.4	0.00	0.00	0.00	
1	4.81	-36.5	1.24	-1.36	-0.13	
2	14.31	-29.7	4.12	-4.50	-0.38	
3	23.92	-27.9	7.48	-7.27	0.21	
4	33.62	-21.7	11.07	-9.68	1.39	
5	43.43	-17.4	13.04	-11.80	1.44	
6	53.34	-9.9	14.19	-12.95	1.24	
7	63.34	4.5	14.39	-13.22	1.17	
8	73.32	6.1	12.48	-12.69	-0.24	
9	83.31	6.1	10.85	-12.09	-1.24	
10	93.30	3.3	10.53	-11.82	-0.99	
11	103.28	8.8	9.54	-11.01	-1.47	
12	113.24	9.3	6.69	-10.11	-3.42	
13	123.18	12.7	6.34	-9.02	-2.67	

Digital Control Inc.
Page 2

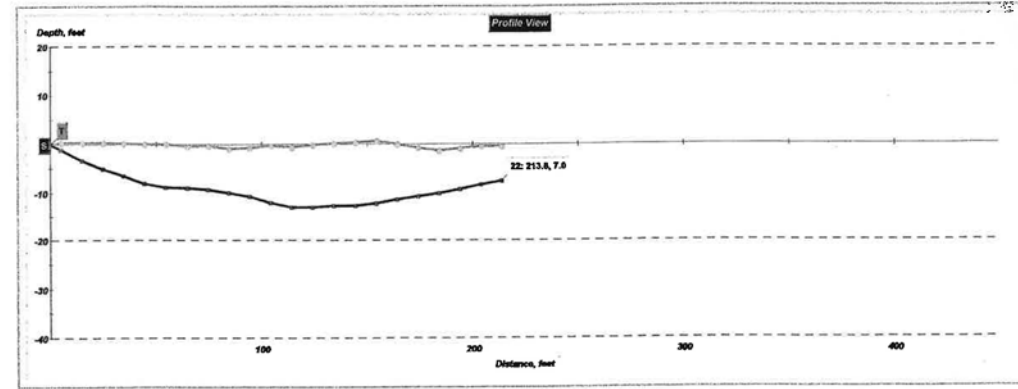
This report contains a log of data taken by above ground sounding equipment during better ground drilling. Because the accuracy of such data can be adversely affected by environmental and operational factors, the data does not necessarily provide an accurate representation of actual site conditions.

SHEET # 18 & 19
WATER MAIN
STA. 199+00 TO STA. 202+00
300 LF 12.75" OD IPS DR17 HDPE ENCASED
W /290 LF 16" OD IPS DR17 HDPE
UNDER HOLMESTOWN ROAD
AT HWY. 707 INTERSECTION

Eclipse Datalogger Drill Report: holmestown rd., Eclipse SN: 5401, feb 2015						
Rod	xDist (ft)	Pitch (%)	Depth (ft)	Depth (ft)	Rel. Elev. (ft)	Type
0	0.00	-24.3	0.00	0.00	0.00	
1	4.82	-30.2	1.84	-1.31	0.53	
2	14.50	-22.3	4.55	-3.85	0.70	
3	24.27	-20.8	8.59	-5.96	-0.84	
4	34.09	-18.0	8.27	-7.86	-3.14	
5	43.92	-19.2	10.83	-8.69	-4.41	
6	53.72	-21.3	12.07	-11.67	-6.92	
7	63.49	-22.2	14.01	-13.80	-9.31	
8	73.31	-16.3	15.62	-15.69	-10.81	
9	83.19	-15.9	16.16	-17.28	-11.12	
10	93.09	-12.0	17.31	-18.66	-11.43	
11	103.06	-6.3	18.22	-19.57	-11.80	
12	113.04	0.2	18.79	-19.87	-11.09	
13	123.04	1.3	18.69	-19.80	-11.10	
14	133.04	0.3	18.72	-19.72	-11.09	
15	143.04	-0.8	18.50	-19.74	-11.22	
16	153.04	-0.5	18.47	-19.81	-11.34	
17	163.04	-0.5	18.59	-19.86	-11.26	
18	173.04	0.4	18.26	-19.86	-11.38	

Eclipse Datalogger Drill Report: holmestown rd., Eclipse SN: 5401, feb 2015						
Rod	xDist (ft)	Pitch (%)	Depth (ft)	Depth (ft)	Rel. Elev. (ft)	Type
19	183.04	0.4	18.29	-19.82	-11.57	
20	193.04	3.5	17.80	-19.63	-11.83	
21	203.04	3.5	17.24	-19.28	-12.04	
22	213.04	-1.2	17.88	-19.16	-11.72	
23	223.02	12.5	15.96	-18.60	-10.99	
24	232.95	11.8	13.72	-17.40	-9.91	
25	242.87	13.0	12.09	-16.17	-8.55	
26	252.78	14.0	11.52	-14.83	-6.97	
27	262.70	12.1	10.40	-13.53	-5.37	
28	272.63	10.9	8.91	-12.39	-4.47	
29	282.51	20.6	7.80	-10.84	-5.03	
30	292.27	24.5	5.34	-8.64	-3.91	
31	301.94	28.1	3.12	-6.10	-3.05	

Eclipse Datalog Drill Report
Project: McDowell shortcut north end
Address: 12" water in 18" casing
0 = murells inlet 200'
Date: feb 2015
Time:
Customer: Garcon
Address:
Contact:
Phone:
Contractor: Lawmore const
Address:
Contact:
Phone:
Eclipse SN: 5401



PAY ITEM # 30
PIPE LENGTH 200'
SHEET 20

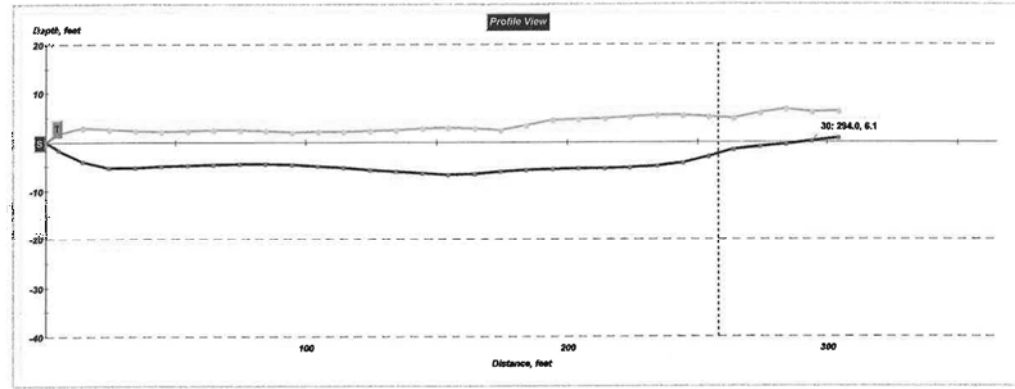
Digital Control Inc.
Page 1

SHEET # 20
WATER MAIN
NEAR STA. 227+75
200 LF 12.75" OD IPS DR17 HDPE ENCASED
W /190 LF 16" OD IPS DR17 HDPE
UNDER HWY 707 AT INTERSECTION
OF MCDOWELL SHORTCUT ROAD

Eclipse Datalogger Drill Report: McDowell shortcut north end., Eclipse SN: 5401, feb 2015						
Rod	xDist (ft)	Pitch (%)	Depth (ft)	Depth (ft)	Rel. Elev. (ft)	Type
0	0.00	-26.0	0.00	0.00	0.00	
1	4.85	-23.9	1.40	-1.21	0.19	
2	14.63	-19.3	3.59	-3.32	0.27	
3	24.48	-15.3	5.24	-5.03	0.21	
4	34.37	-14.9	6.67	-6.53	0.15	
5	44.25	-15.8	8.04	-8.04	-0.00	
6	54.22	-1.2	8.77	-8.88	-0.11	
7	64.21	-1.9	8.49	-8.04	-0.55	
8	74.21	-5.2	8.97	-9.39	-0.43	
9	84.19	-6.3	9.03	-9.97	-10.16	
10	94.16	-10.5	10.02	-10.80	-4.70	
11	104.07	-16.2	11.82	-12.13	-0.30	
12	114.02	-2.7	12.34	-13.06	1.78	
13	124.02	3.7	12.85	-13.01	-0.40	
14	134.02	1.9	12.90	-12.73	0.17	
15	144.02	0.1	12.95	-12.63	0.33	
16	154.01	8.3	12.80	-12.21	0.59	
17	163.98	7.9	11.30	-11.40	-0.11	
18	173.96	4.9	9.98	-10.70	-0.78	

Eclipse Datalogger Drill Report: McDowell shortcut north end., Eclipse SN: 5401, feb 2015						
Rod	xDist (ft)	Pitch (%)	Depth (ft)	Depth (ft)	Rel. Elev. (ft)	Type
19	183.04	7.1	8.69	-10.16	-1.48	
20	193.90	10.3	8.26	-9.30	-1.04	
21	203.86	7.3	7.92	-8.42	-0.57	
22	213.83	9.5	7.01	-7.58	-0.53	

Eclipse Datalog Drill Report
Project: R H Moore by front pond
Address: 12" water
0 = compass center 300'
Date: feb, 26, 2015
Time:
Customer: Garcon
Address:
Contact:
Phone:
Contractor: Lawmore const
Address:
Contact:
Phone:
Eclipse SN: 1475



PAY ITEM # 135
PIPE LENGTH 300'
Sheet 22

Digital Control Inc.
Page 1

SHEET # 22
WATER MAIN
NEAR R.H. MOORE, INC. POND
300 LF 12.75" OD IPS DR17 HDPE

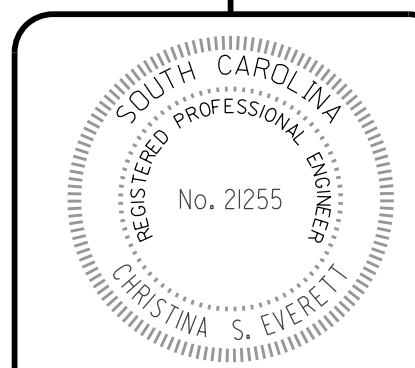
Eclipse Datalogger Drill Report: R H Moore by front pond, Eclipse SN: 1475, feb, 26, 2015						
Rod	xDist (ft)	Pitch (%)	Depth (ft)	Depth (ft)	Rel. Elev. (ft)	Type
0	0.00	-32.9	0.00	0.00	0.00	
1	4.75	-32.9	3.24	-1.56	1.67	
2	14.44	-18.4	7.00	-4.03	2.96	
3	24.37	-5.7	7.80	-5.22	2.57	
4	34.37	4.2	7.67	-5.30	2.38	
5	44.36	2.1	7.18	-4.98	2.17	
6	54.36	1.0	7.20	-4.83	2.37	
7	64.36	2.8	7.10	-4.64	2.46	
8	74.36	-0.5	7.01	-4.62	2.50	
9	84.36	0.5	6.79	-4.52	2.27	
10	94.36	-3.5	6.74	-4.67	2.07	
11	104.35	-3.1	7.11	-5.00	2.11	
12	114.35	-3.2	7.49	-5.32	2.18	
13	124.34	-3.9	7.98	-5.67	2.31	
14	134.33	-3.9	8.59	-6.06	2.52	
15	144.33	-2.2	9.19	-6.37	2.82	
16	154.33	-3.1	9.58	-6.64	2.95	
17	164.33	4.8	9.28	-6.55	2.74	
18	174.31	5.8	8.50	-6.02	2.48	

Eclipse Datalogger Drill Report: R H Moore by front pond, Eclipse SN: 1475, feb, 26, 2015						
Rod	xDist (ft)	Pitch (%)	Depth (ft)	Depth (ft)	Rel. Elev. (ft)	Type
19	184.31	1.2	9.02	-5.67	3.35	
20	194.30	1.0	10.07	-5.57	4.50	
21	204.30	0.8	10.14	-5.48	4.69	
22	214.30	0.2	10.21	-5.43	4.78	
23	224.30	2.3	10.53	-5.31	5.23	
24	234.30	3.4	10.49	-5.02	5.47	
25	244.28	9.5	9.90	-4.38	5.53	
26	254.19	17.8	8.23	-3.03	5.20	
27	264.09	9.7	6.55	-1.67	4.88	
28	274.07	3.2	7.02	-1.03	5.99	
29	284.06	5.4	7.40	-0.60	6.81	
30	294.04	7.2	6.10	0.03	6.13	
31	304.02	6.4	5.48	0.71	6.13	

S.C. HWY. 707 WIDENING PROJECT
PHASE ONE WATER BORE LOGS

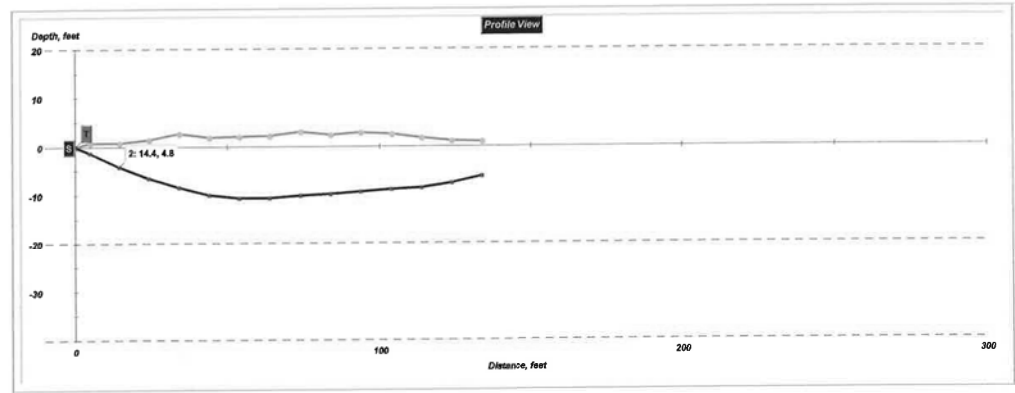


S.C. HIGHWAY 707 WIDENING PROJECT
WATER RELOCATIONS
(FROM GREEN BAY CURCULE TO POLO CIRCLE)
SODOT FILE # 26.036779A
WATER PROJECT # 7-556-01



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 3 OF 4

Eclipse Datalog Drill Report
Project: honeysuckle
Address: 0 = honeysuckle 105'
Customer: Garcon
Address:
Contact: Phone:
Eclipse SN: 1475
Date: Feb. 12, 2015
Time:



PAY ITEM # 31
PIPE LENGTH 105'
SHEET 22

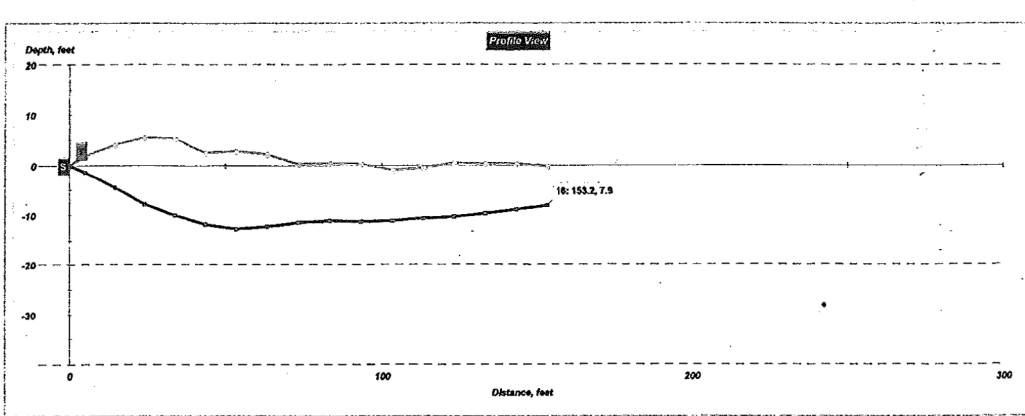
Digital Control Inc.
Page 1

SHEET # 22
WATER MAIN
NEAR STA. 260+30
105 LF 12.75" OD IPS DR17 HDPE ENCASED
W /100 LF 16" OD IPS DR17 HDPE
UNDER HWY. 707 AT HONEYSUCKLE LANE

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
0	0.00	-25.5	0.00	0.00	0.00	
1	4.82	-28.9	2.07	-1.33	0.73	
2	14.41	-29.9	4.85	-4.16	0.69	
3	24.11	-20.2	7.97	-5.59	1.38	
4	33.93	-18.7	11.06	-8.90	2.57	
5	43.82	-11.2	11.86	-9.97	1.89	
6	53.79	-2.8	12.73	-10.67	2.06	
7	63.79	2.2	12.82	-10.69	2.13	
8	73.78	7.1	13.25	-10.23	3.02	
9	83.77	2.2	12.91	-9.76	2.25	
10	93.77	5.8	12.22	-9.36	2.86	
11	103.75	3.8	11.29	-8.88	2.41	
12	113.75	2.1	10.35	-8.59	1.76	
13	123.71	15.7	8.74	-7.71	1.70	
14	133.60	14.4	7.12	-6.22	0.38	a

Digital Control Inc.
Page 2

Eclipse Datalog Drill Report
Project: conifer ln & 707
Address: 0 = conifer ln 135'
Customer: Garcon
Address:
Contact: Phone:
Eclipse SN: 1475
Date: Aug. 11, 2015
Time:



PAY ITEM # 32
PIPE LENGTH 135'
STA 273+50
SHEET 23 OF 36

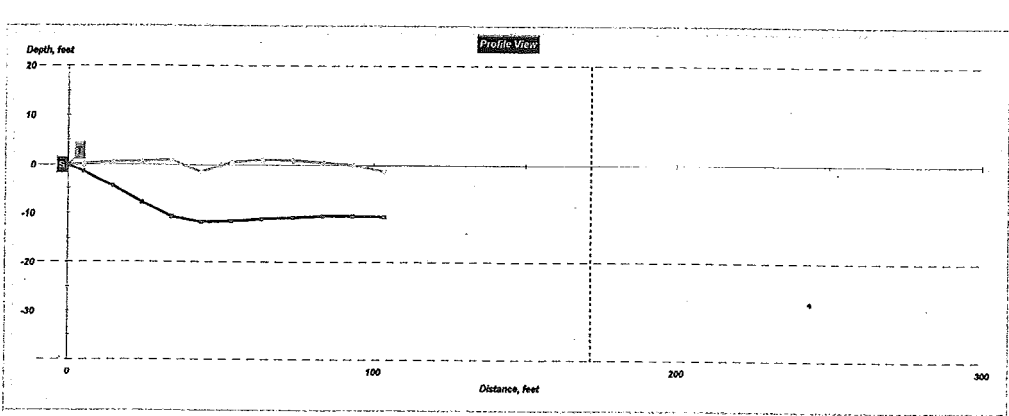
Digital Control Inc.
Page 1

SHEET # 23
WATER MAIN
STA. 273+50
135 LF 8.625" OD IPS DR17 HDPE ENCASED
W /125 LF 12.75" OD IPS DR17 HDPE
UNDER HWY. 707 AT CONIFER LANE

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
0	0.00	-22.6	0.00	0.00	0.00	
1	4.83	-31.0	3.13	-1.29	1.84	
2	14.31	-36.5	8.57	-4.49	4.08	
3	23.76	-32.5	13.27	-7.75	5.51	
4	33.40	-15.2	15.37	-10.06	5.31	
5	43.34	-19.3	14.22	-11.75	2.47	
6	53.30	0.9	15.00	-12.66	2.84	
7	63.29	8.5	14.33	-12.19	2.14	
8	73.26	6.9	11.75	-11.42	0.33	
9	83.26	0.8	11.47	-11.03	0.44	
10	93.25	-4.2	11.49	-11.20	0.29	
11	103.25	4.8	10.16	-11.18	-1.01	
12	113.24	4.8	10.17	-10.70	-0.53	
13	123.23	3.8	10.62	-10.27	0.35	
14	133.22	8.3	9.87	-9.67	-0.41	
15	143.19	7.3	8.12	-8.89	0.20	
16	153.16	8.3	7.89	-8.12	0.03	

Digital Control Inc.
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Eclipse Datalog Drill Report
Project: polo circle & 707
Address: 0 = polo 95'
Customer: Garcon
Address:
Contact: Phone:
Eclipse SN: 1475
Date: Aug. 13, 2015
Time:



PAY ITEM # 33
PIPE LENGTH 95'
STA 276+15
SHEET 24 OF 36

Digital Control Inc.
Page 1

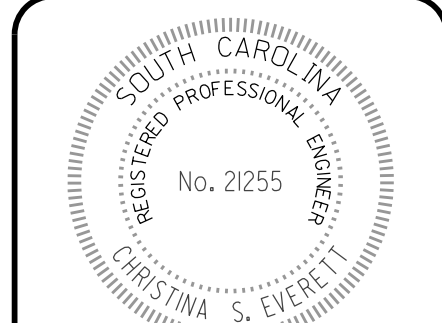
SHEET # 24
WATER MAIN
STA. 276+15
95 LF 6.625" OD IPS DR17 HDPE ENCASED
W /90 LF 10.75" OD IPS DR17 HDPE
UNDER HWY. 707 AT POLO CIRCLE

Rod	xDist (ft)	Pitch (%)	Depth (ft)	iDepth (ft)	Rel. Elev. (ft)	Type
0	0.00	-32.0	0.00	0.00	0.00	
1	4.78	-30.0	1.63	-1.48	0.15	
2	14.31	-33.1	4.96	-4.49	0.47	
3	23.75	-37.2	8.42	-7.81	0.61	
4	33.35	-21.3	11.49	-10.60	0.88	
5	43.27	-3.1	10.19	-11.81	-1.61	
6	53.27	7.0	12.04	-11.61	0.43	
7	63.29	2.3	12.06	-11.15	0.92	
8	73.26	4.2	11.74	-10.82	0.92	
9	83.25	2.7	10.84	-10.47	0.37	
10	93.25	-1.9	10.40	-10.44	-0.04	
11	103.25	-2.8	9.23	-10.57	-1.44	

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S.C. HIGHWAY 707 WIDENING PROJECT
WATER RELOCATIONS
(FROM GREEN BAY CIRCLE TO POLO CIRCLE)
SCDOT FILE # 26.036779A
WATER PROJECT # 7-556-01



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 4 OF 4

S.C. HWY. 707 WIDENING PROJECT
PHASE ONE WATER BORE LOGS