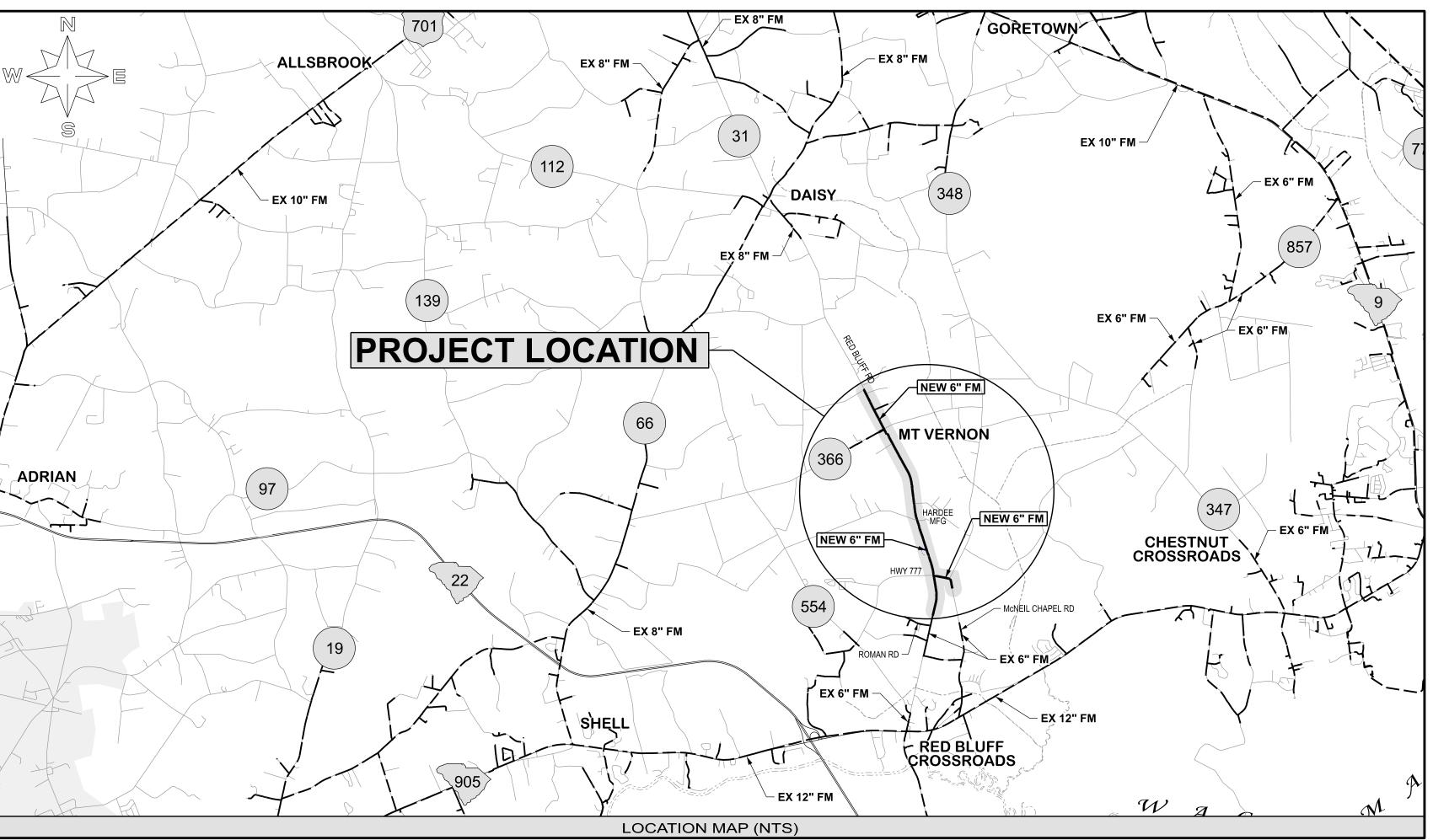
- Rural Sewer Project (#990-36 / #S22-18) -Hwy 777 (S26-777) & McNeil Chapel Rd Ext. 1 - Rural Sewer Project (#990-37 / #S15-18) -



- 1. WORK WITHIN PUBLIC RIGHT-OF-WAYS OR PRIVATE EASEMENTS SHALL BE ACCOMPLISHED BY THE CONTRACTOR ACCORDING TO THE REQUIREMENTS OR CONDITIONS OF THE ENCROACHMENT PERMIT OR OTHER LEGAL DOCUMENTS AS THOUGH DOCUMENTS WERE ISSUED IN THE CONTRACTORS NAME. THE CONTRACTOR SHALL MAINTAIN COPIES OF THESE DOCUMENTS ON THE SITE AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF PUBLIC RIGHTS-OF-WAY DURING CONSTRUCTION OF THE PROJECT AND UNTIL THE CONTRACTOR OBTAINS AND DELIVERS TO THE OWNER A WRITTEN SIGN-OFF FROM HORRY COUNTY AND/OR THE S.C.D.O.T. THAT THE PUBLIC AGENCY HAS ACCEPTED THE RIGHT-OF-WAY BACK FOR MAINTENANCE. FINAL PAYMENT AND RELEASE OF RETAINAGE WILL NOT BE MADE TO THE CONTRACTOR UNTIL WRITTEN SIGN-OFF HAS BEEN OBTAINED FROM THE APPROPRIATE PUBLIC AGENCY AND PROVIDED TO THE OWNER.
- 2. PROVISIONS SHALL BE MADE TO PREVENT EROSION AND SILTRATION CAUSED BY CONSTRUCTION. TEMPORARY GRASSING, HAY BALES, SILT FENCES OR OTHER METHODS, AS CALLED FOR ON THE PLAN OR THAT MAY BE REQUIRED. SHALL BE USED
- 3. DISTANCES SHOWN ON THE PLAN FOR THE DESIGNATED LOCATION OF THE PROPOSED LINE WHICH MAY BE FROM THE EDGE OF PAVEMENT OR OTHERWISE SHOWN IS INTENDED ONLY AS A DESIRED LOCATION FOR THIS INSTALLATION. HOWEVER, SHOULD A CONFLICT OCCUR AND/OR DUE TO UNFORESEEN OR OTHER UTILITIES DISCOVERED THAT ARE IN CONFLICT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FOR ANY AND ALL INSTALLATIONS AND DEVIATIONS OF ALIGNMENT NECESSARY TO ACHIEVE A CHANGED AND SATISFACTORY LOCATION FOR THIS INSTALLATION. THE INSTALLATION COSTS THAT MAY OCCUR DUE TO ALIGNMENT CHANGES ARE CONSIDERED TO BE A PART OF THE PRICE SUBMITTED FOR PIPE INSTALLATION AND NO ADDITIONAL COMPENSATION IS ALLOWED. THE FINAL LOCATION SELECTED FOR INSTALLATION BY THE CONTRACTOR OTHER THAN WHAT IS SHOWN ON THE PLANS SHALL BE FIRST APPROVED BY THE AUTHORITY PRIOR TO PROCEEDING WITH THE WORK AND ACTUAL INSTALLATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND EXISTENCE OF ALL UNDERGROUND UTILITIES BOTH PRIOR TO THE BID SUBMITTAL AND DURING CONSTRUCTION. LOCATION OF UTILITIES AS TENTATIVELY SHOWN ON THE PLANS. WHETHER FULLY AND CORRECTLY LOCATED OR PARTIALLY AND/OR INCORRECTLY LOCATED OR OMITTED WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OR LIABILITY FOR PROVIDING FOR ANY DEVIATION FROM THE PLANNED LOCATION AND FOR THE COMPLETE INSTALLATION AND/OR DAMAGE TO OTHER UTILITIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING LOCAL

Red Bluff Rd (S26-31) Ext. 6

UTILITIES FOR ASSISTANCE IN LOCATING UTILITIES BOTH PRIOR TO BID PROPOSALS AND DURING INSTALLATIONS. THE CONTRACTOR MUST FULLY COMPLY WITH THE SOUTH CAROLINA UNDERGROUND UTILITIES DAMAGE PREVENTION ACT. GENERAL STATUTES 58-35, SECTIONS 20 THROUGH 120 AND ALL APPLICABLE STATUTES AND STATE APPROVED REQUIREMENTS.

- 4. WHEN THE CONTRACTOR IS UNABLE TO COMPLETE HIS WORK AS SHOWN ON THE PLANS BECAUSE OF AN EXISTING UTILITY. CONTRACTOR SHALL STAKE THE LOCATION OF THE UTILITY PRIOR TO PROCEEDING AND CONTACT THE ENGINEER.
- 5. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AGENCIES, THE OWNER, THE ENGINEER AND ALL OTHER CONCERNED PARTIES WHEN CONSTRUCTION IS TO COMMENCE SO THAT INSPECTIONS AND OTHER SITE VISITS MAY BE SCHEDULED.
- 6. DATA REQUIRED FOR PREPARATION OF AS-BUILT DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR AT THE TIME OF INSTALLATION. THIS DATA SHALL BE ACCUMULATED BY THE CONTRACTOR AND COORDINATED WITH THE PROJECT INSPECTOR ON A DAILY BASIS DURING THE CONSTRUCTION PERIOD AND BE SUBMITTED TO THE PROJECT INSPECTOR IN A NEAT AND LEGIBLE MANNER AFTER COMPLETION OF THE PROJECT.
- 7. ALL MATERIALS AND/OR INSTALLATION, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AUTHORITY'S WATER AND SEWER STANDARDS AND SPECIFICATIONS, AND WHERE APPLICABLE, ALL FEDERAL, SOUTH CAROLINA AND LOCAL ORDINANCES, REGULATIONS, SPECIFICATIONS AND PERMITS.
- 8. SPECIAL NOTE: PRIOR TO ANY EXCAVATION THE CONTRACTOR IS REQUIRED TO CONTACT HORRY TELEPHONE COOPERATIVE FOR CABLE LOCATIONS AT 365-2151. THIS PROJECT HAS SEVERAL CABLES OFF EDGE OF PAVEMENT THAT THE CONTRACTOR WILL BE REQUIRED TO LOCATE AND EXPOSE PRIOR TO THE INSTALLATION OF ANY MATERIALS.
- 9. REPLACE IN KIND ALL AREAS PROPERTY OWNER HAS DEVELOPED SPECIAL GRASS, TURF, OR LANDSCAPING. ALL DISTURBED AREAS ARE TO BE RAKED AND SEEDED.

Permit Information

Sewer installed by: Lawrimore Construction

REVIEWED BY: MARK DAWSEY REVIEWED BY: ENGINEERING

SHEET INDEX:

| 1 | TITLE W/ SHEET INDEX, NOTES, & LEGEND |
|-------|---------------------------------------|
| 2 | OVERALL SEWER PLANS |
| 3-12 | PLAN & PROFILE SHEETS (RS22-18) |
| 13-14 | PLAN & PROFILE SHEETS (RS15-18) |
| 15 | MT VERNON BAPTIST CHURCH PS |
| 16 | MT VERNON GROCERY & HARDWARE PS |
| 47 | |

17- BORE AS-BUILTS

LEGEND (APPLIES TYPICALLY THROUGHOUT PLAN SHEET DIRT/GRASS DRIVEWAY OQUINA/GRAVI ONCRETE DRIVEWA SPHALT DRIVEWA REINFORCED CONCRETE PIPE (RCP) TELEPHONE PEDESTAL T V CABLE PEDESTAL ELECTRIC POWER POLE _____ J.G. ELECTRIC TRANSFORMER GAS MAIN TELEPHONE/TV CABLE FIBER OPTIC CABLE CATCH BASIN WATER WELL HOUSE

| SEWER FM AIR (| $ \begin{pmatrix} A \\ R \\ V \end{pmatrix} \begin{pmatrix} A \\ R \\ V \end{pmatrix} $ |
|-------------------------------|---|
| SEWER FM PUMPER | PO |
| SEWER FM PLUG | \mathbb{H} |
| SEWER MANHOLE | M |
| SEWER LIFT STATION | (P) |
| SEWER S.T.E.P. TANK | \bowtie |
| SEWER GRINDER PUMP STATION | G |
| WATER FIRE HYDRANT | FH |
| WATER POST HYDRANT | PH |
| WATER GATE VALVE | \bowtie |
| WATER/SEWER REDUCER | |
| WATER SERVICE METER | \bigcirc |
| | |



SCDOT Permit #19-00508 County Permit #2019.0420 SCDHEC General Sewer Permit # SCG580000

PREPARED BY: GRAND STRAND WATER & SEWER AUTHORITY 166 JACKSON BLUFF RD. P.O. BOX 2368 CONWAY, SC 29528-2368 (843) 443-8200 OR 347-4641 (843) 347-4680 (FAX) E-MAIL: GSWSA.COM

Directional bores installed by: Lawrimore Construction

> THESE DRAWINGS REFLECT AS-BUILT CONDITIONS

2020-07-22

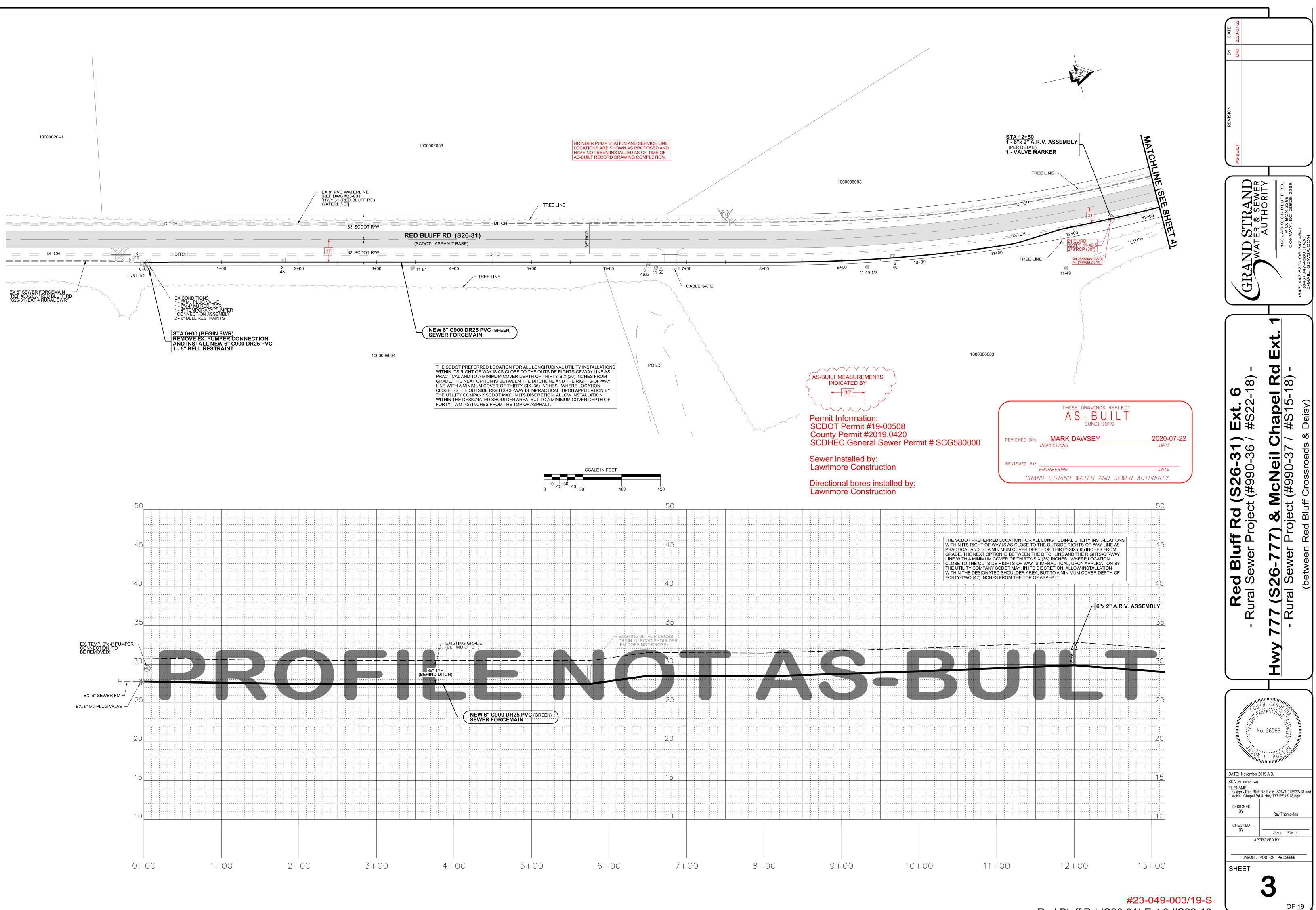
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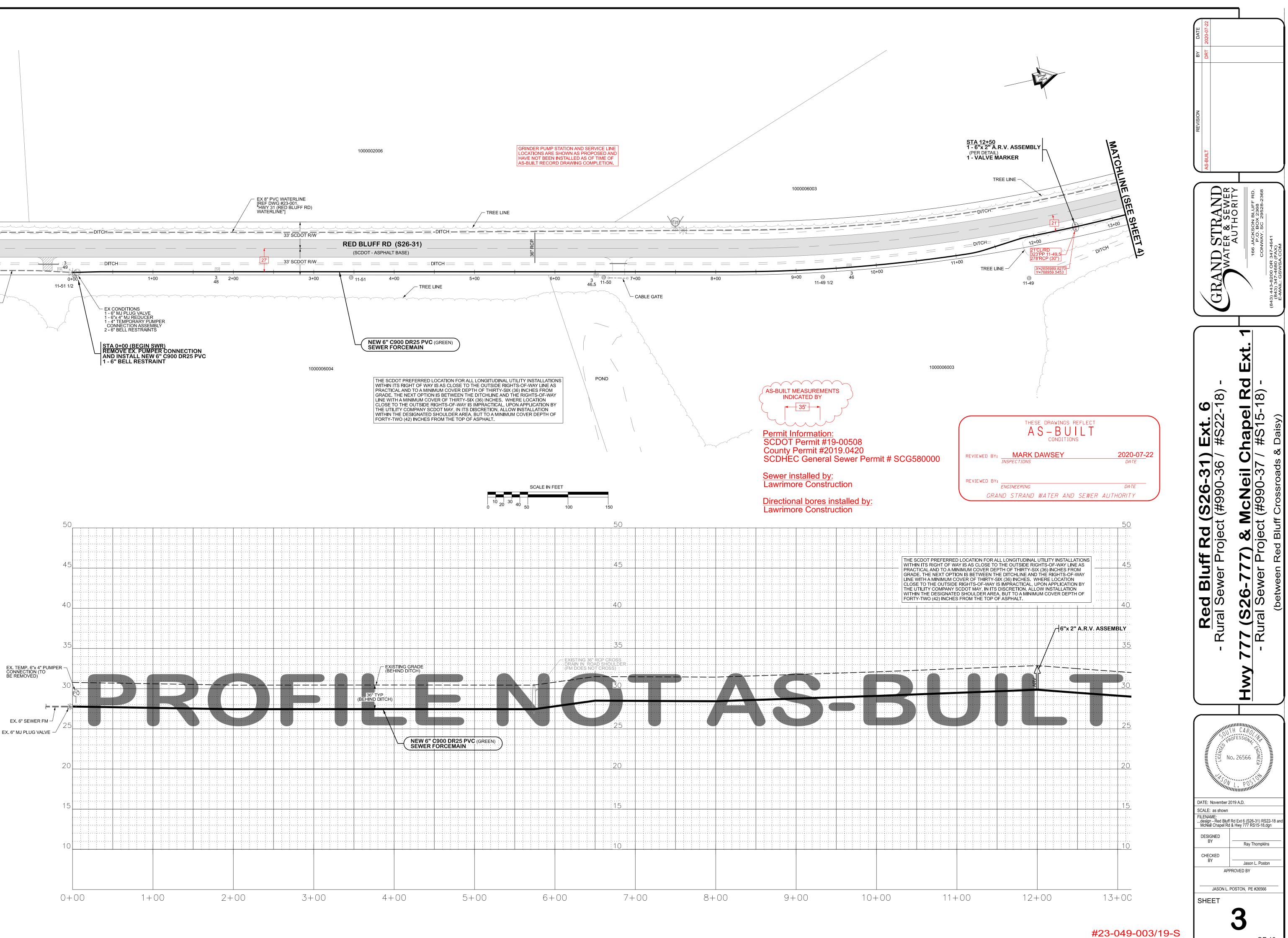
GRAND STRAND WATER AND SEWER AUTHORITY

APPROVED BY:

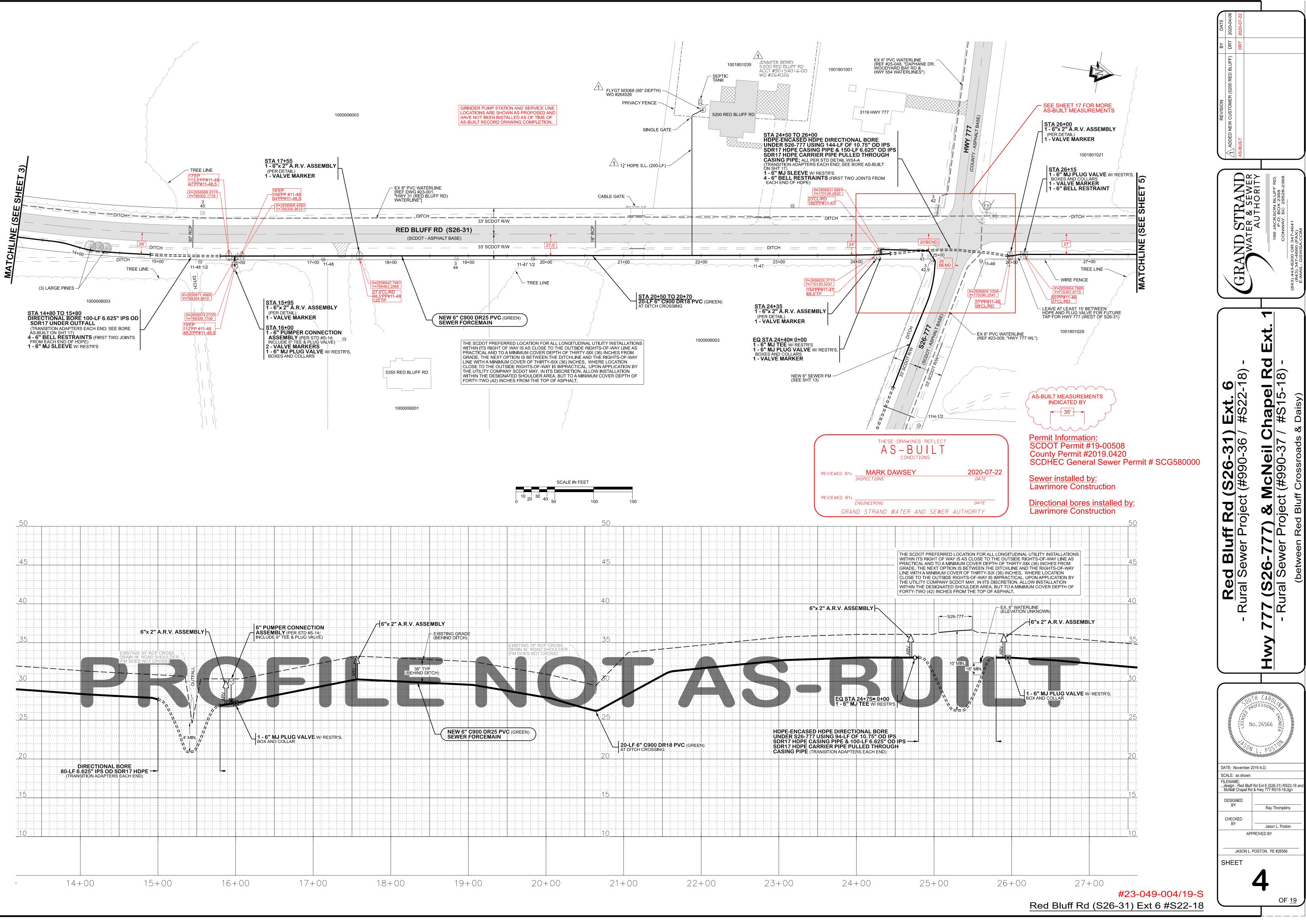
JASON L. POSTON, PE #26566

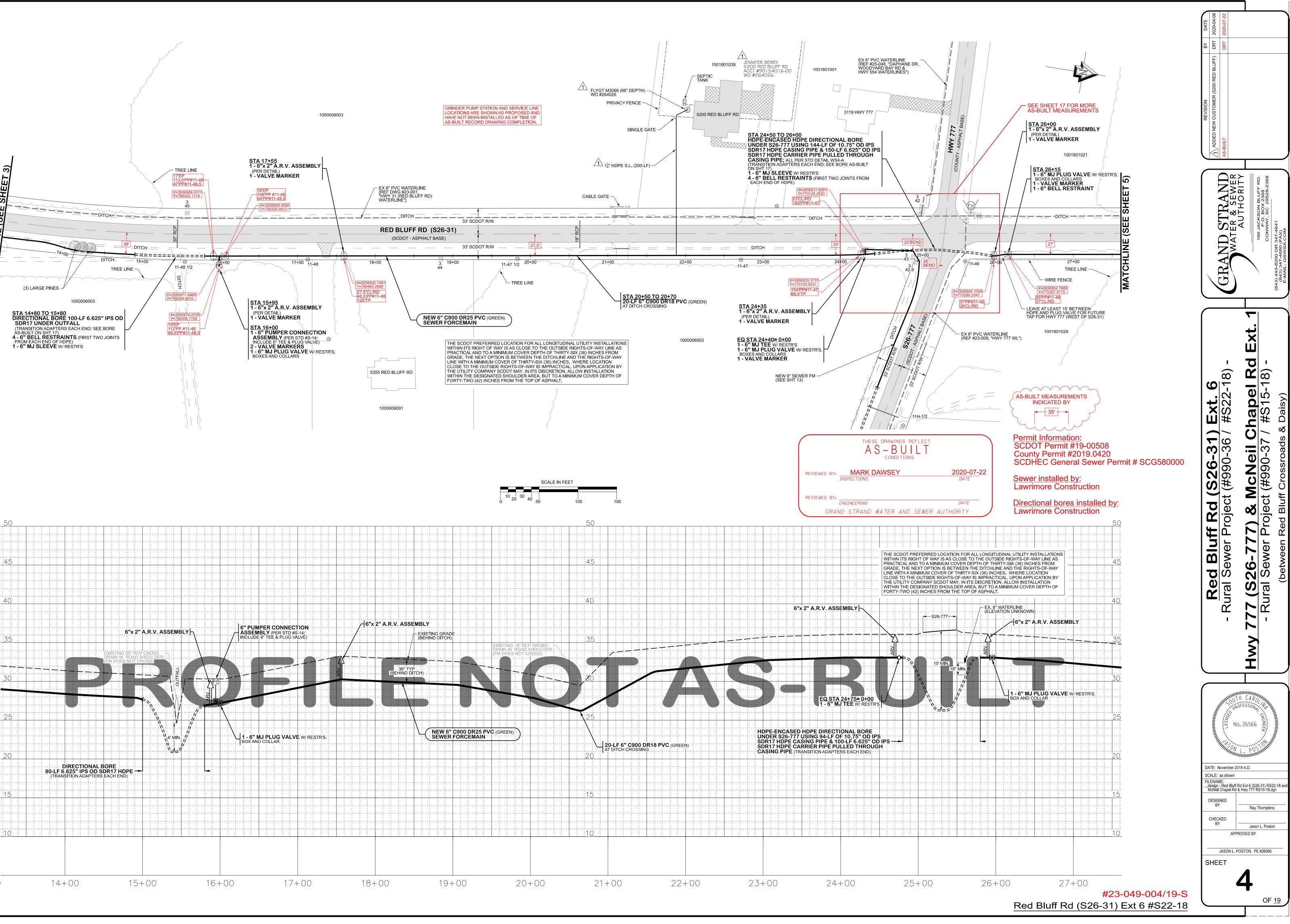


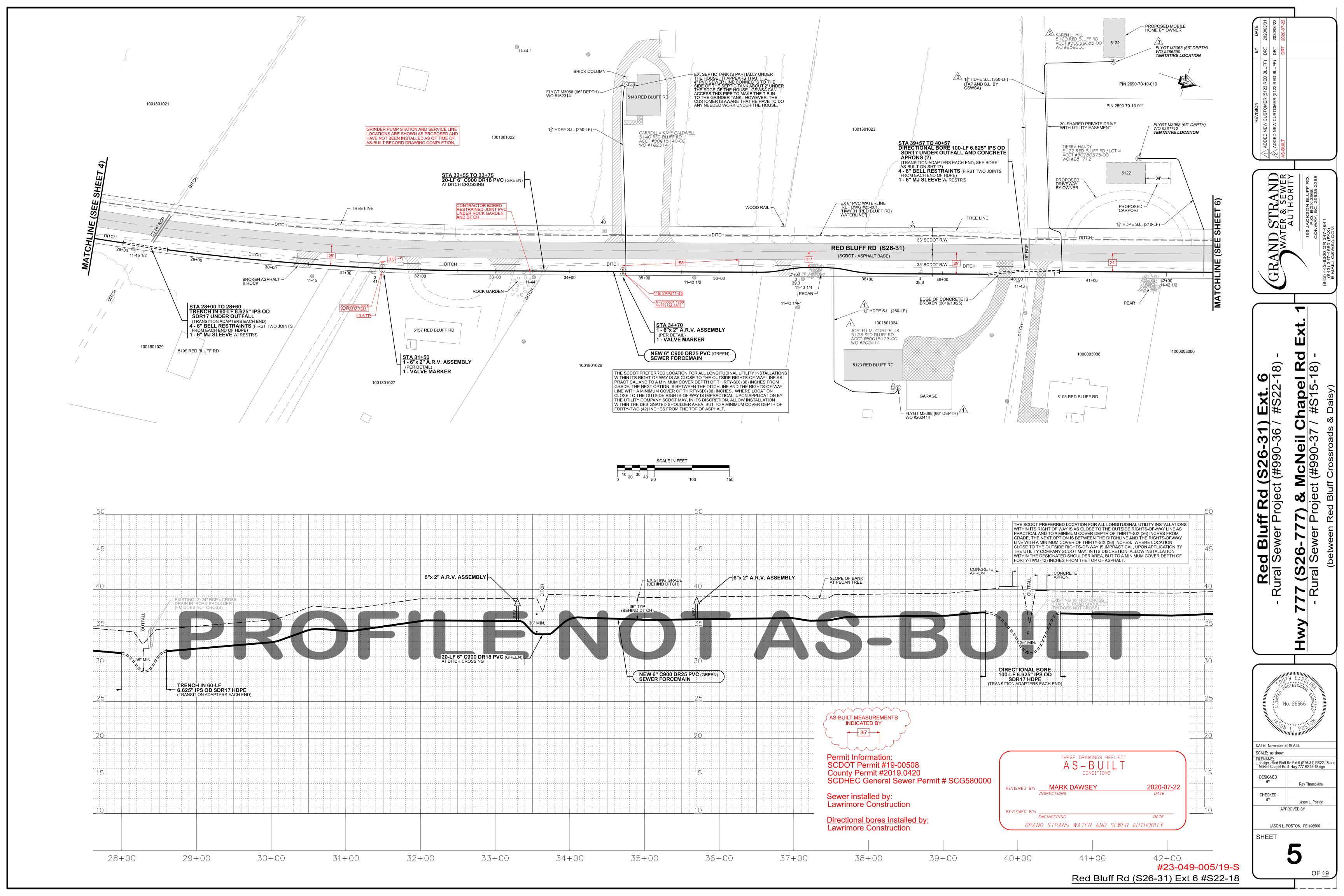


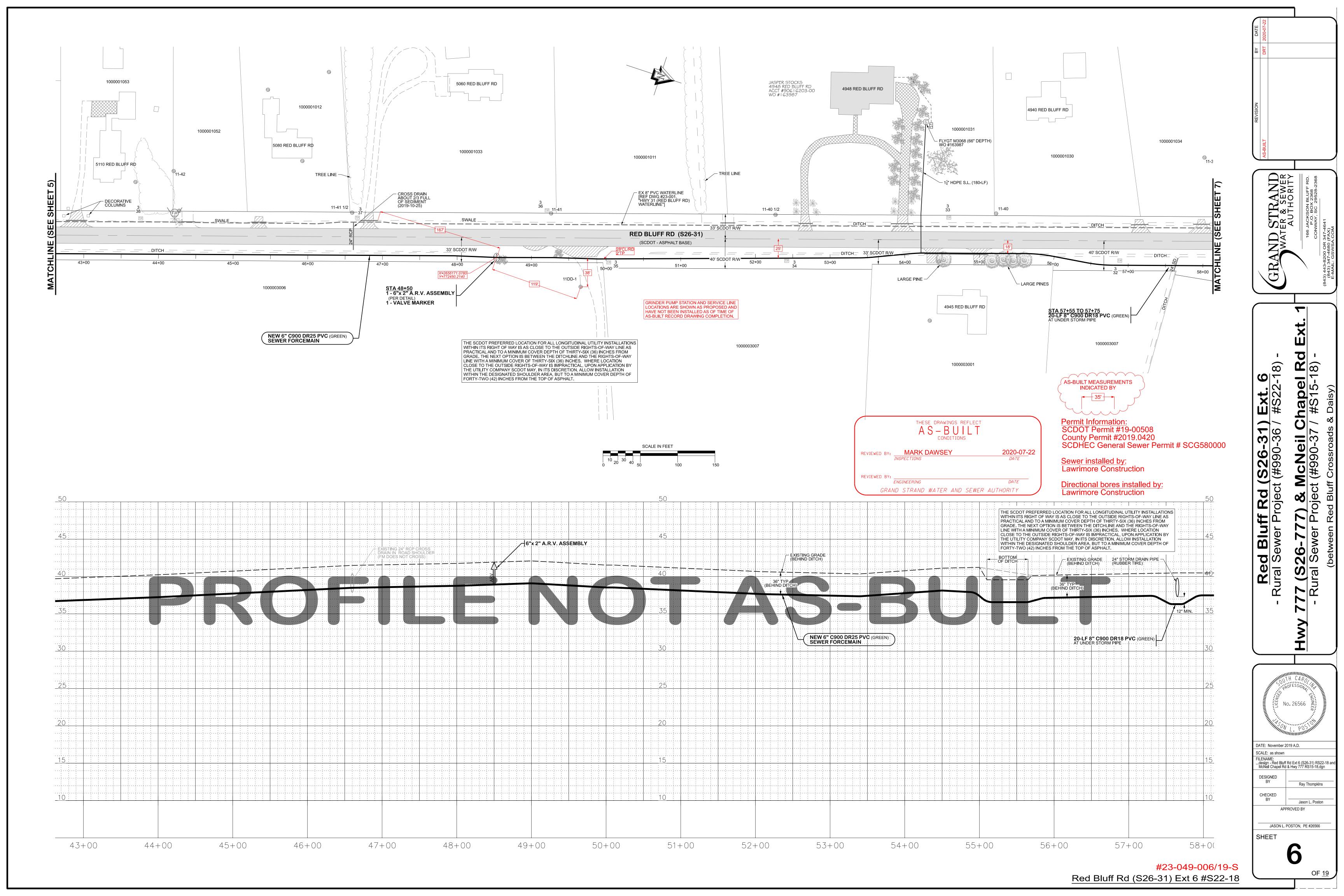


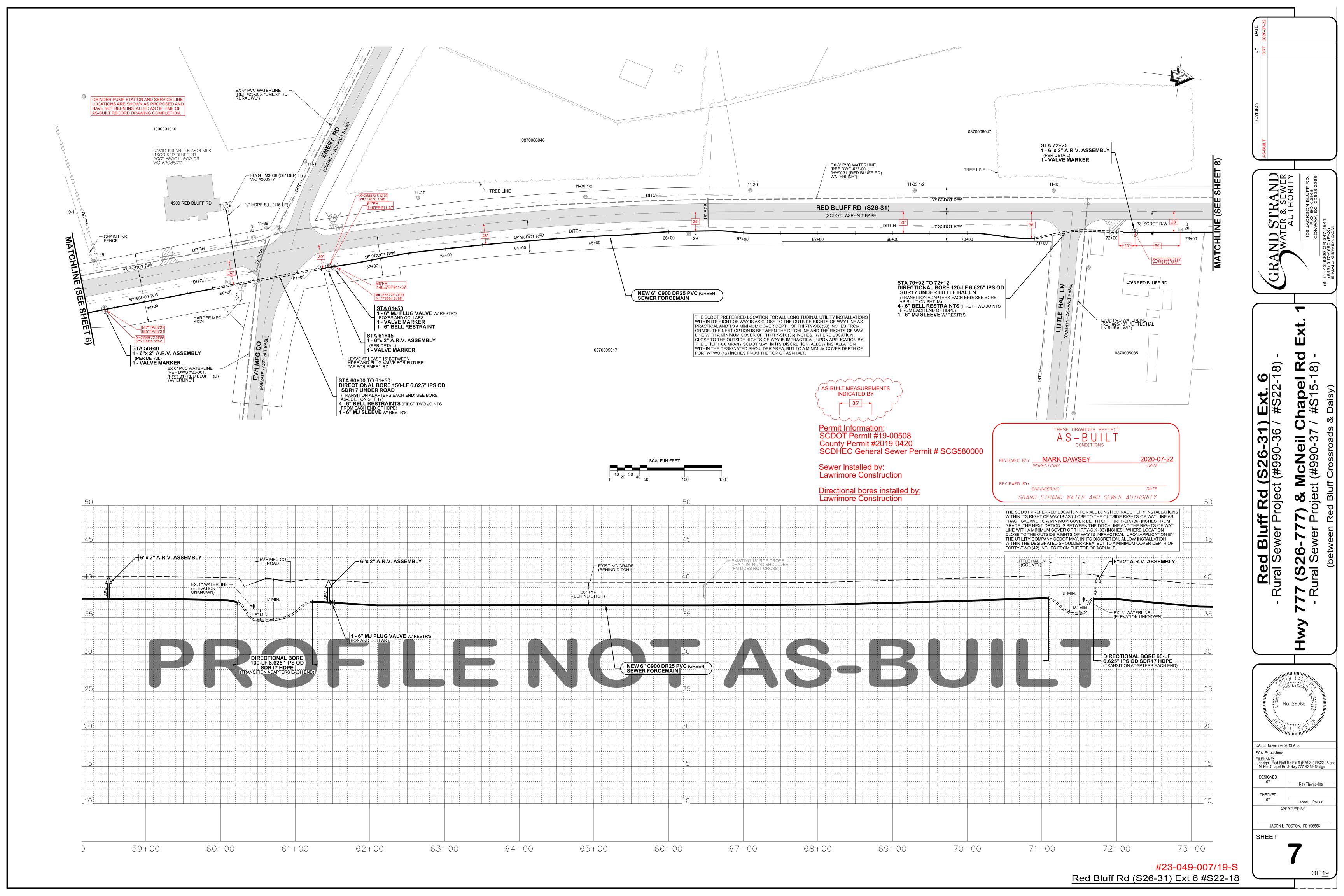
Red Bluff Rd (S26-31) Ext 6 #S22-18

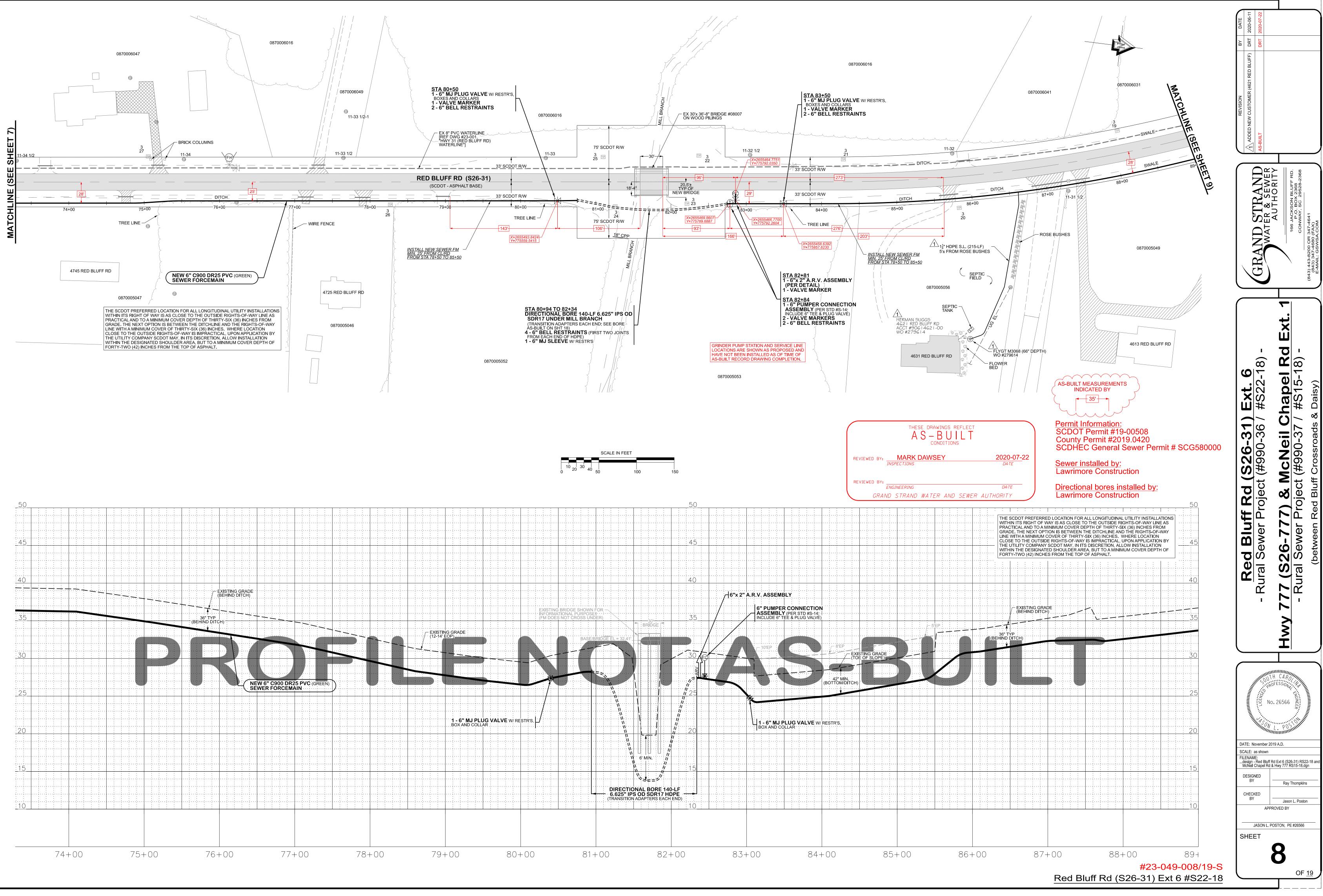


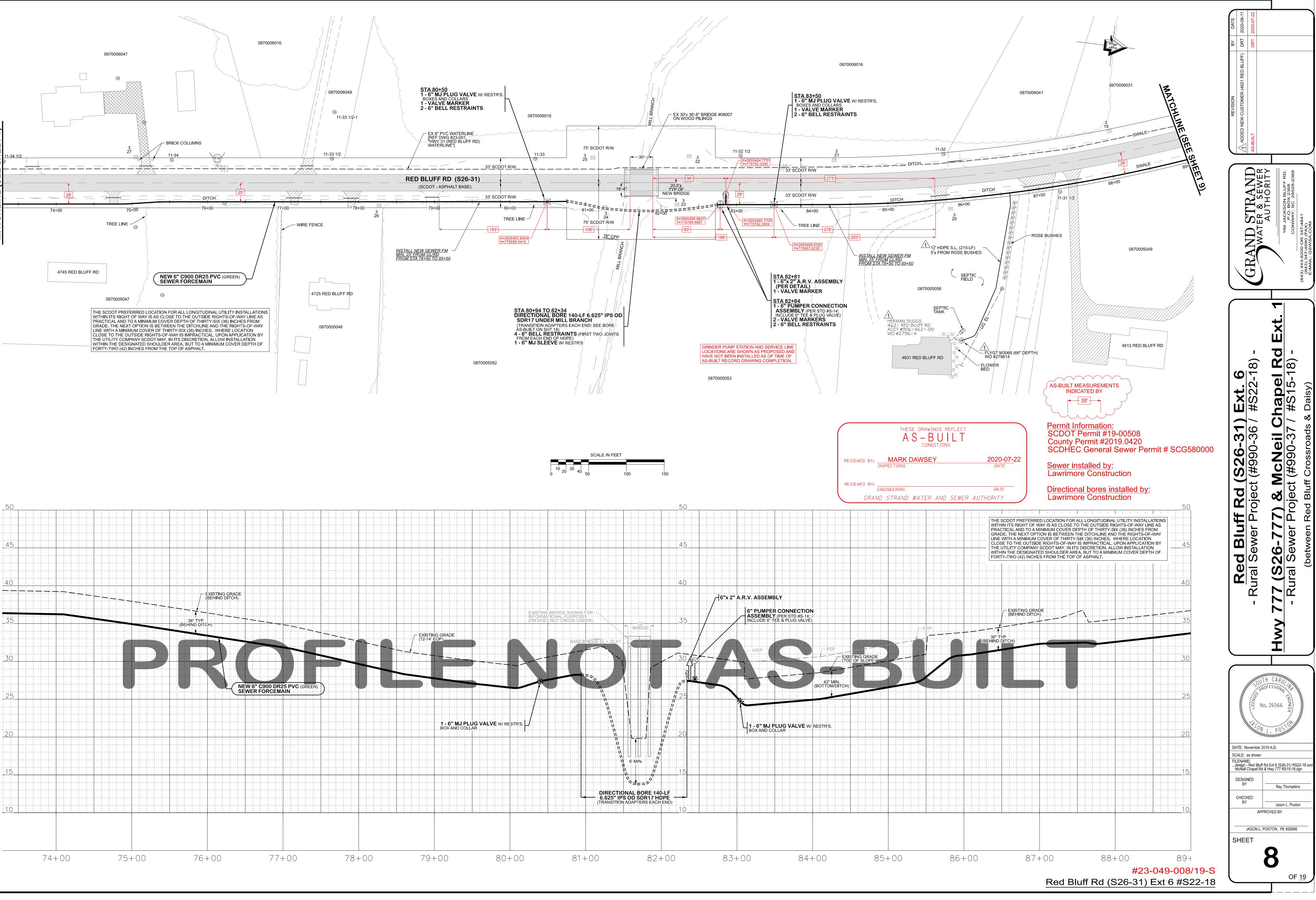


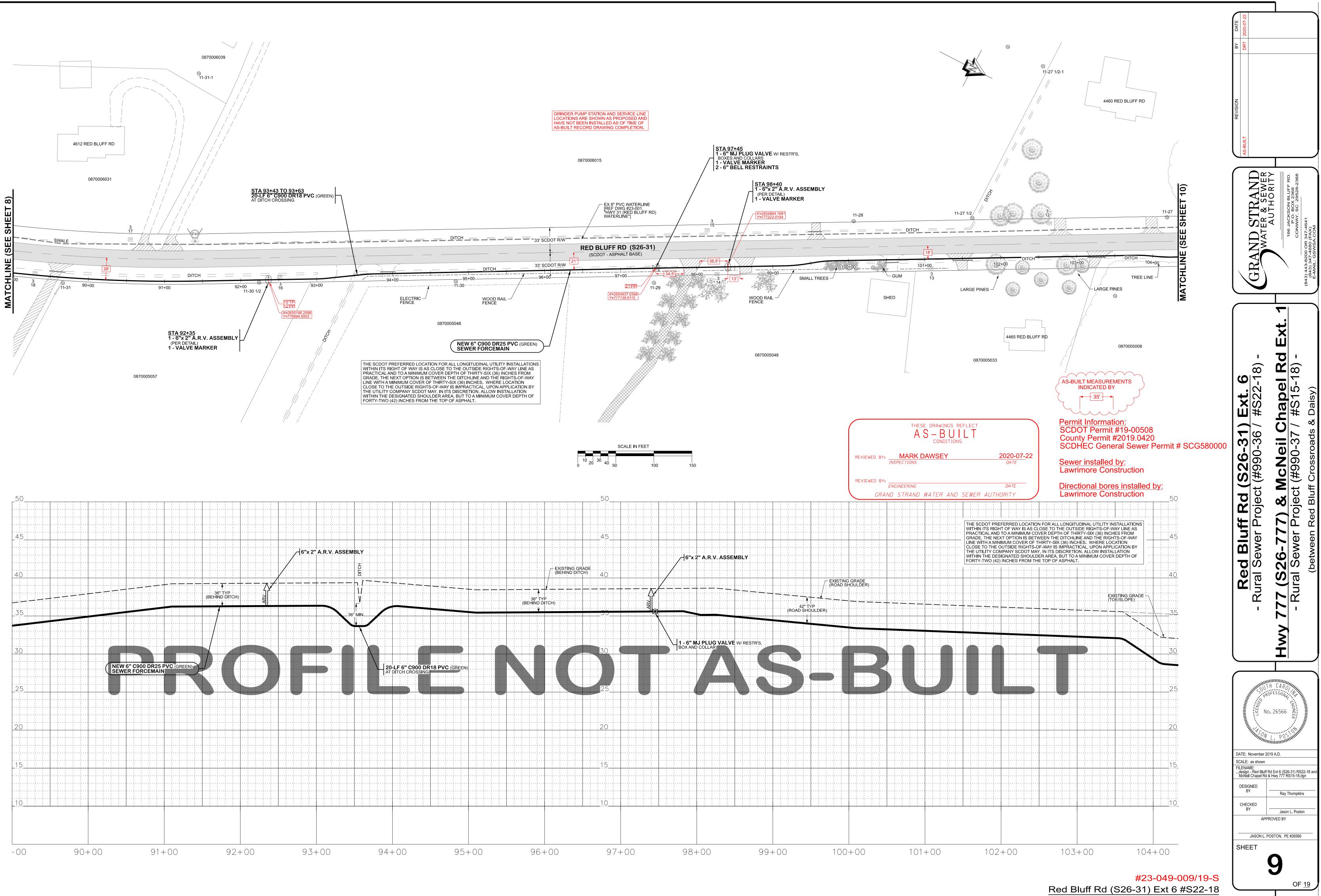


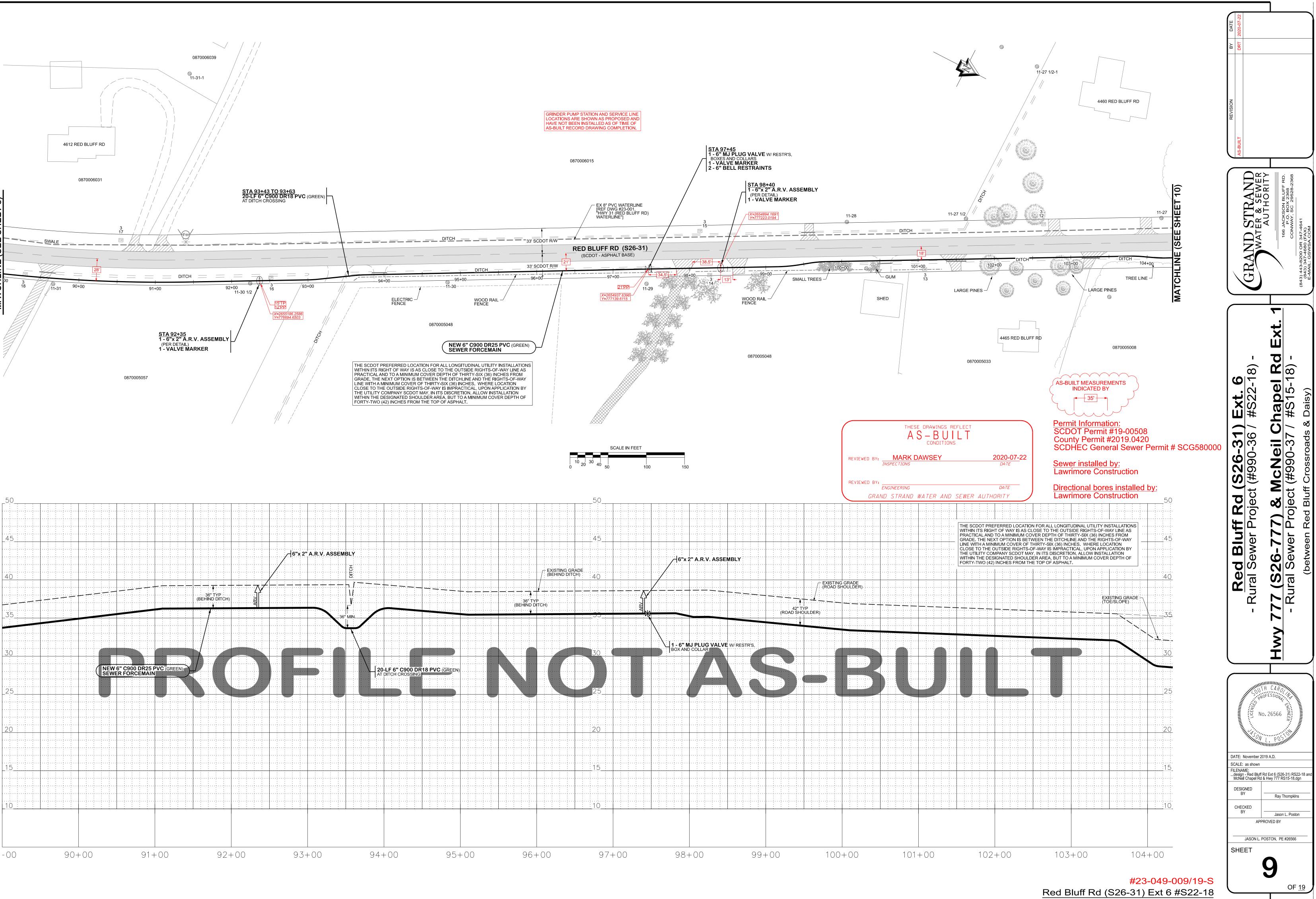


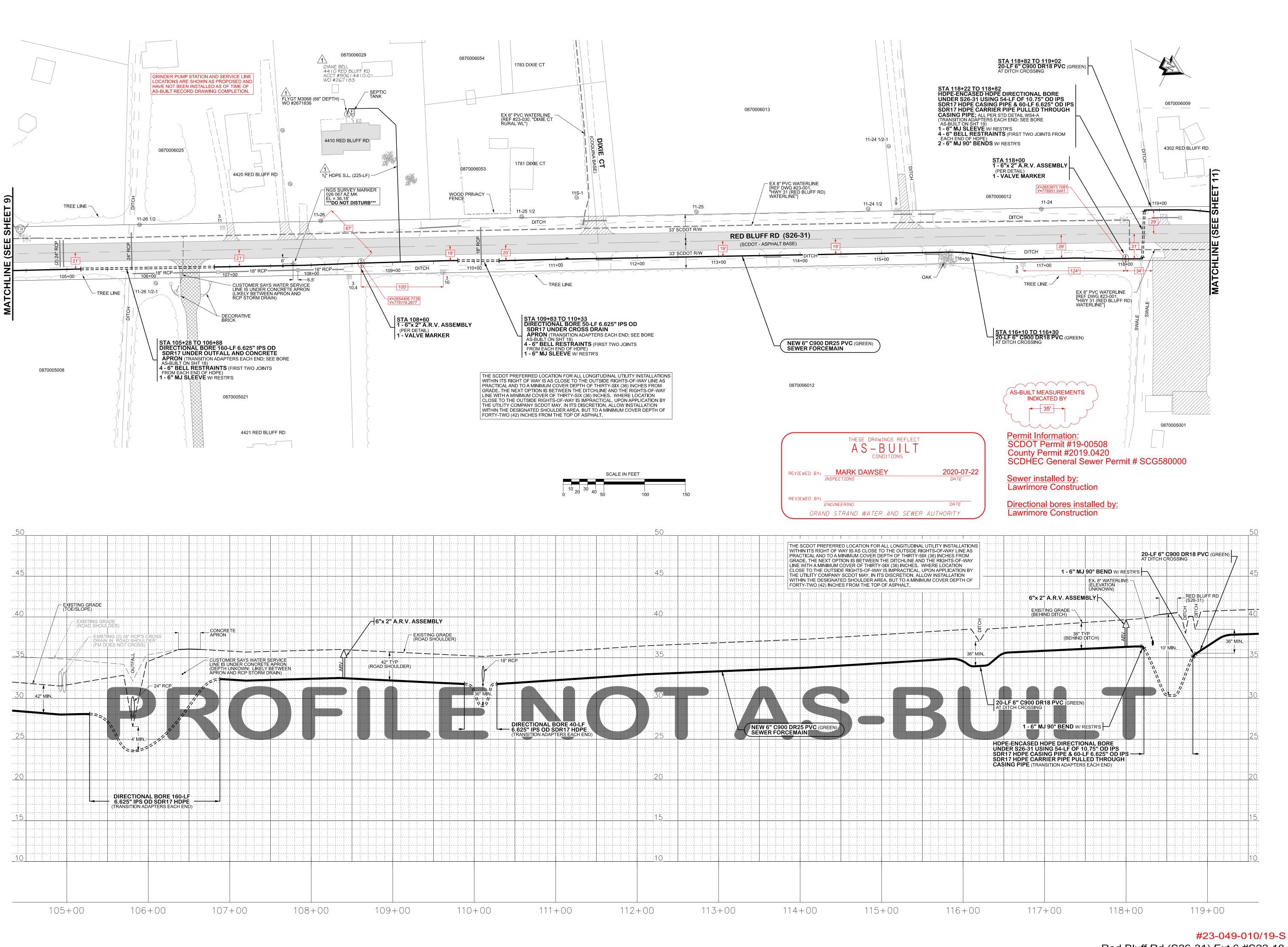


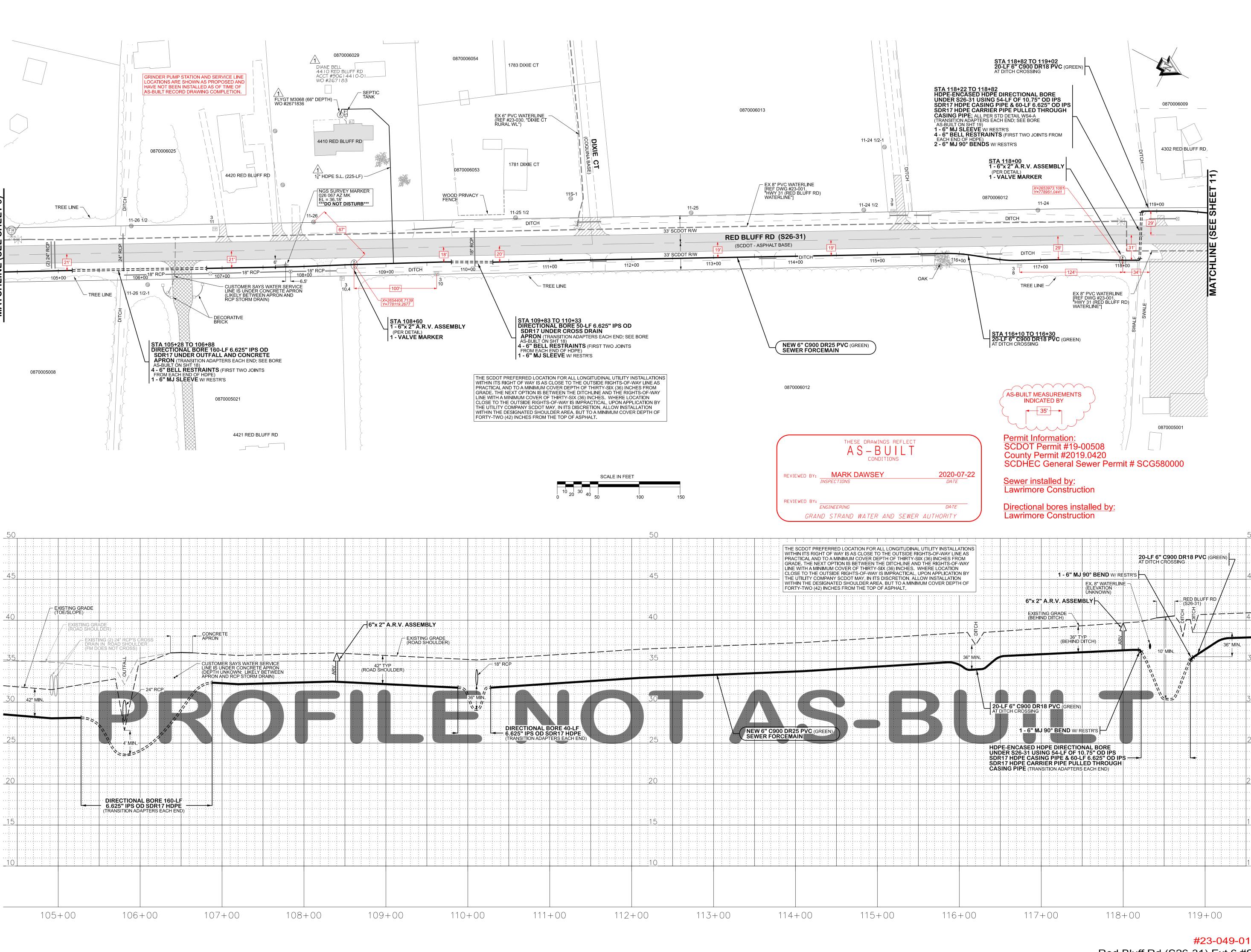


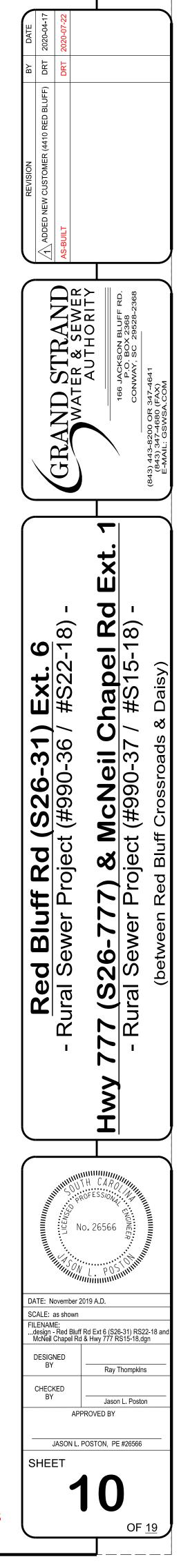




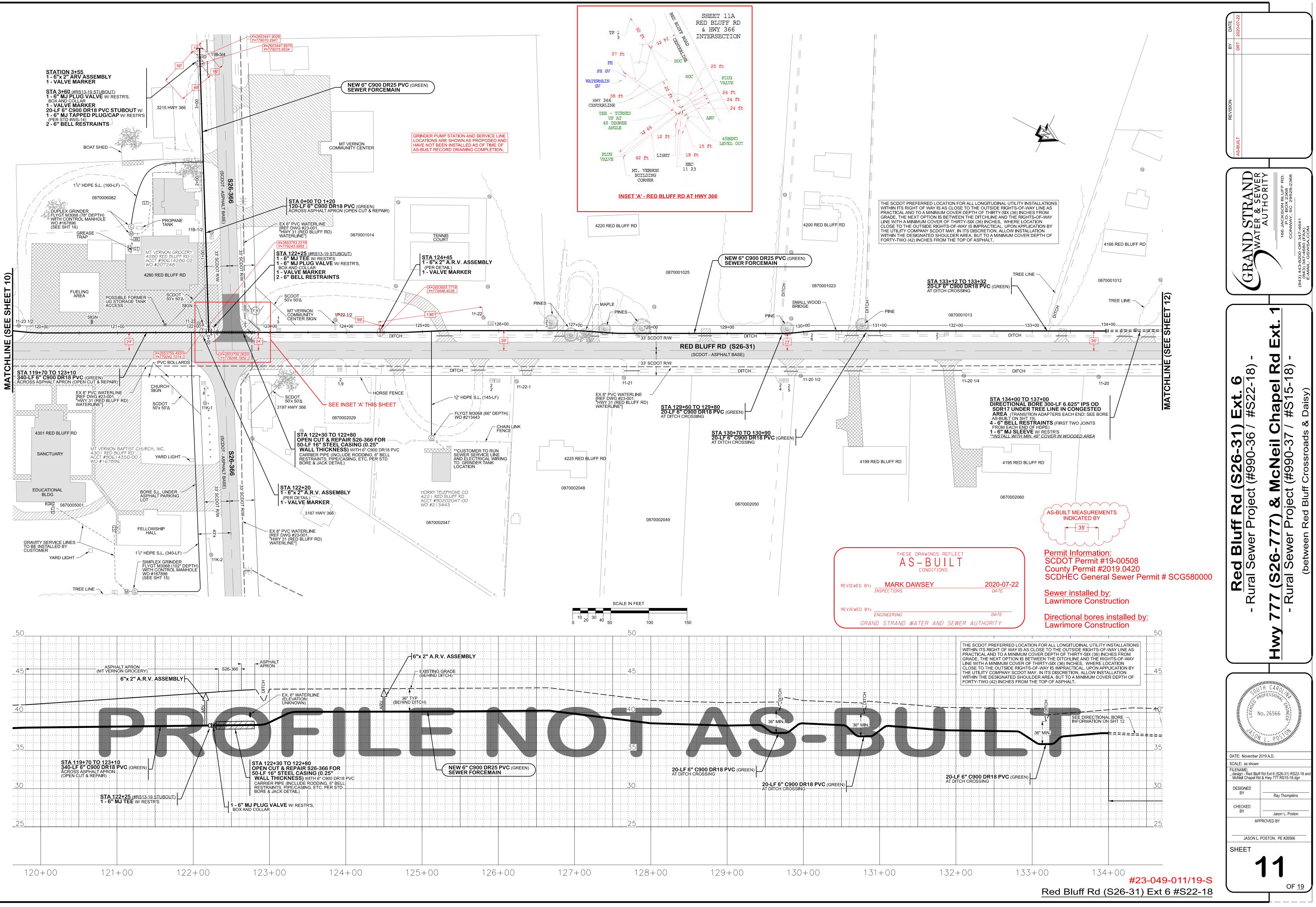


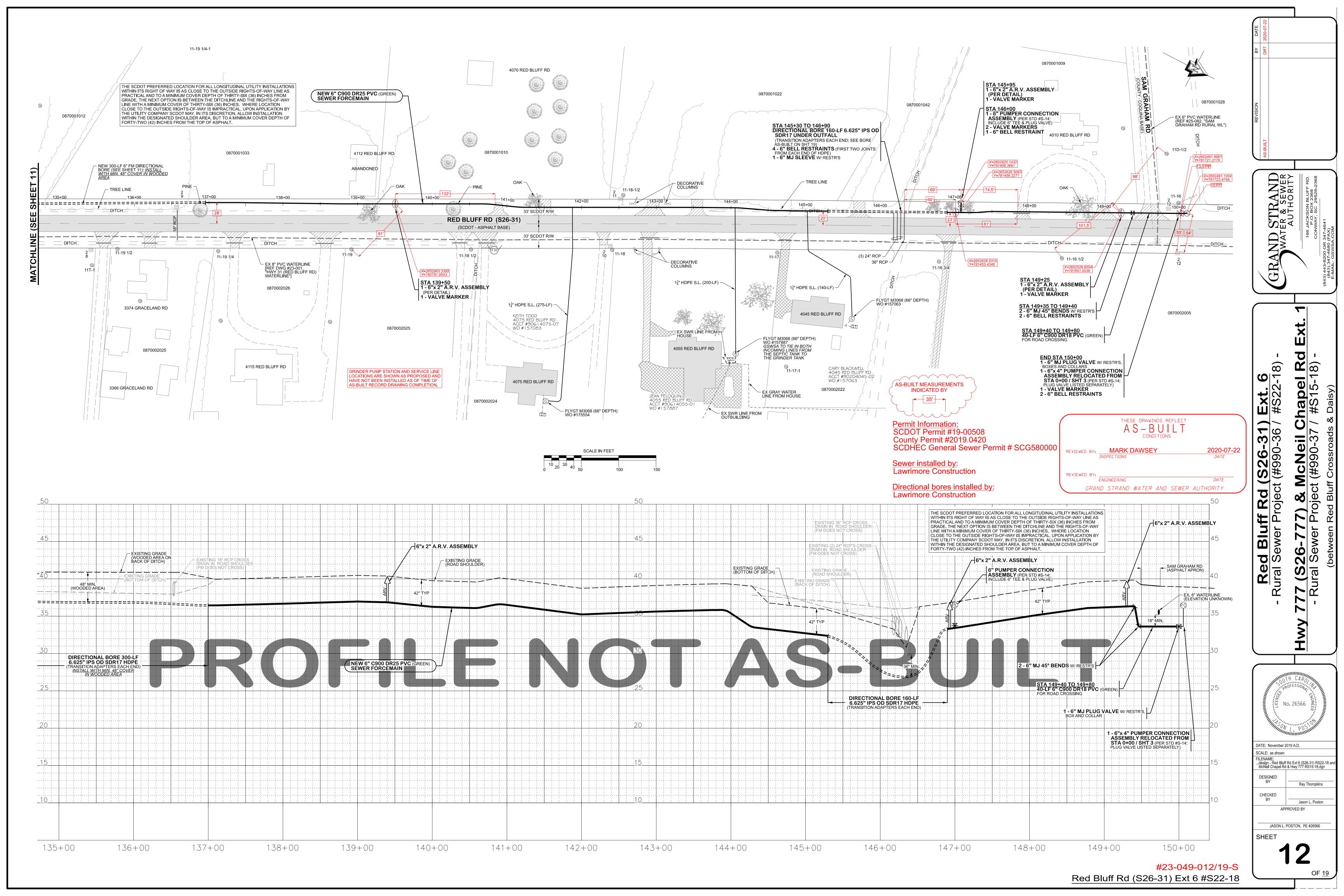


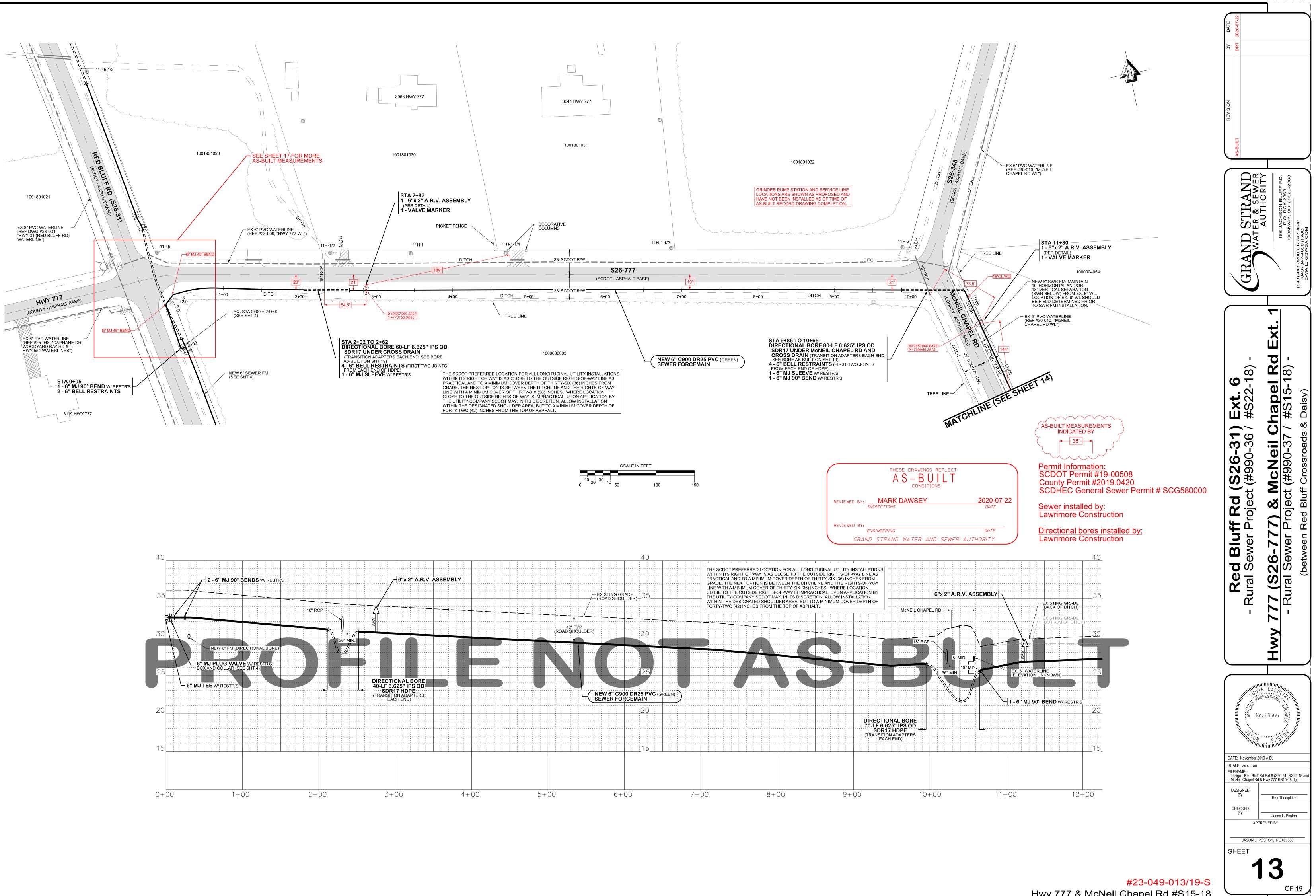


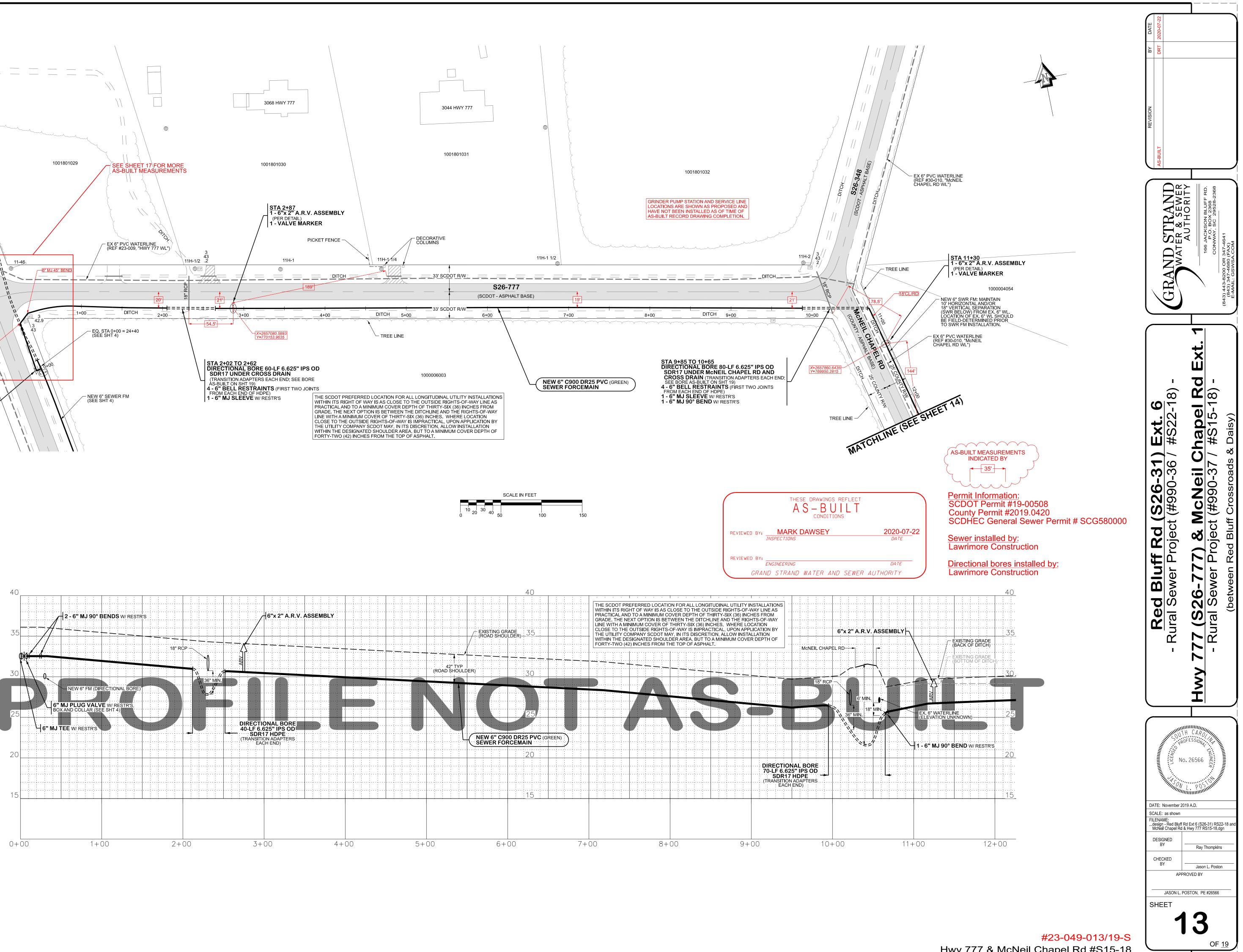


Red Bluff Rd (S26-31) Ext 6 #S22-18

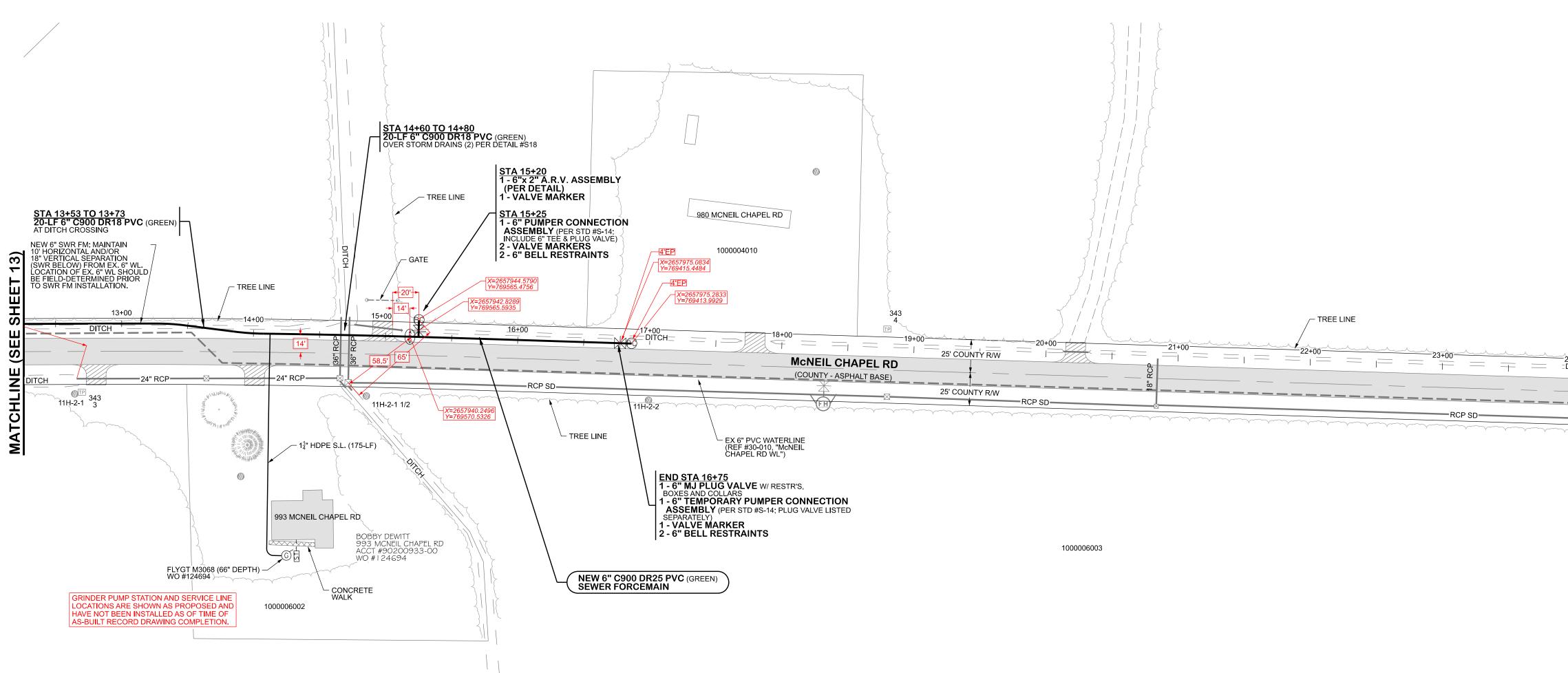


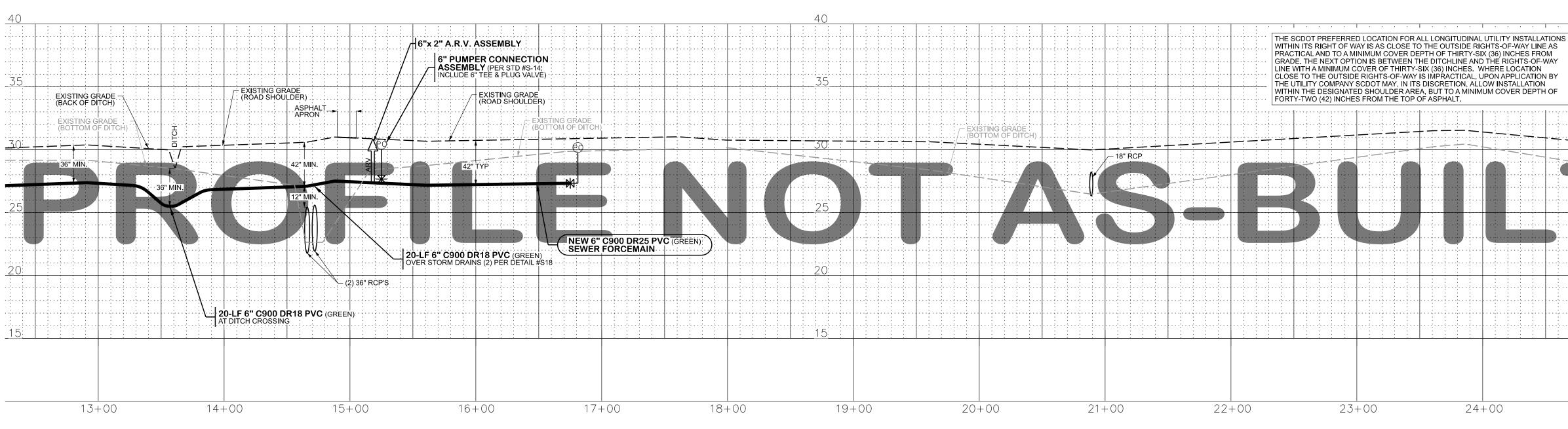






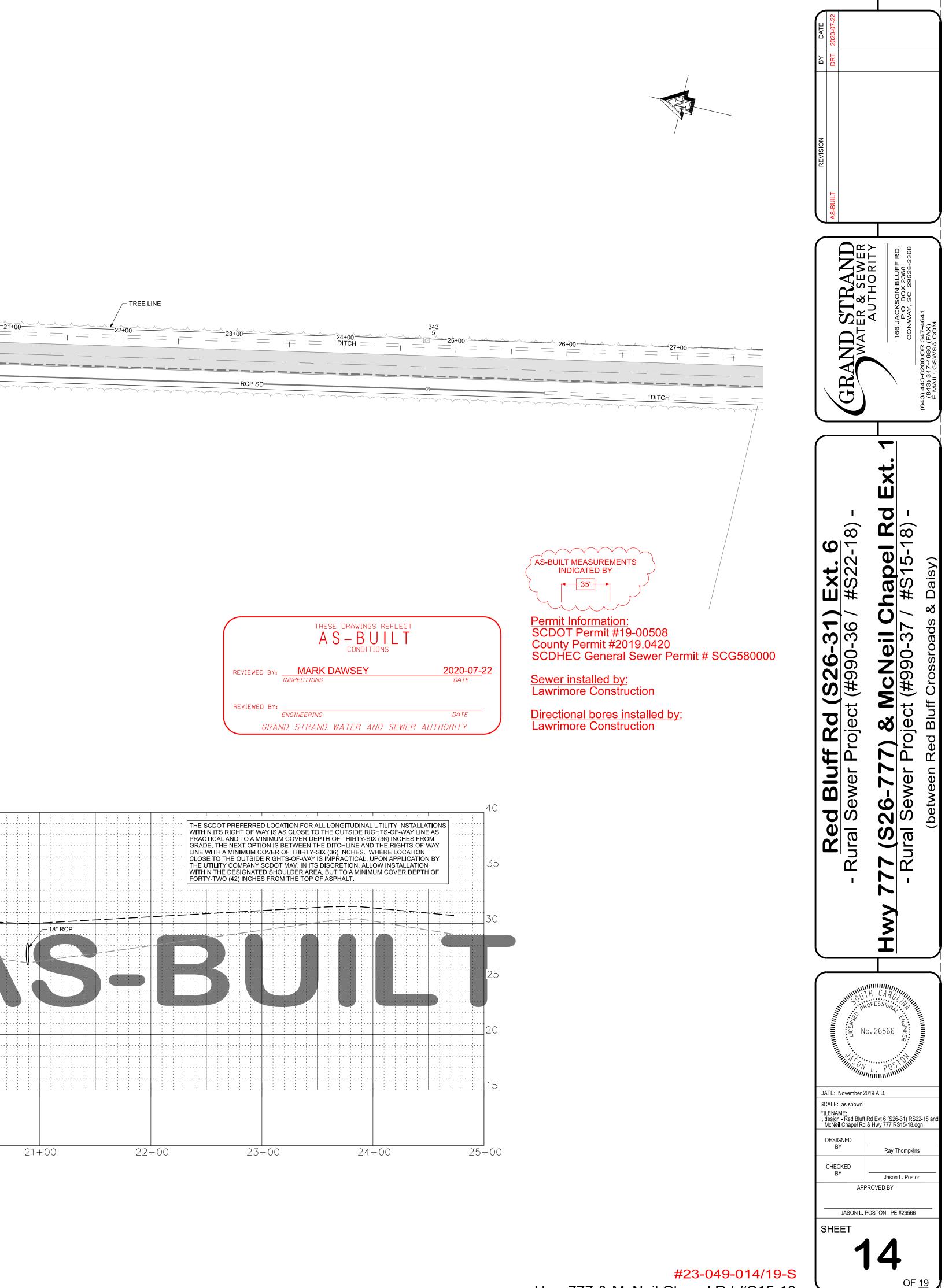
Hwy 777 & McNeil Chapel Rd #S15-18



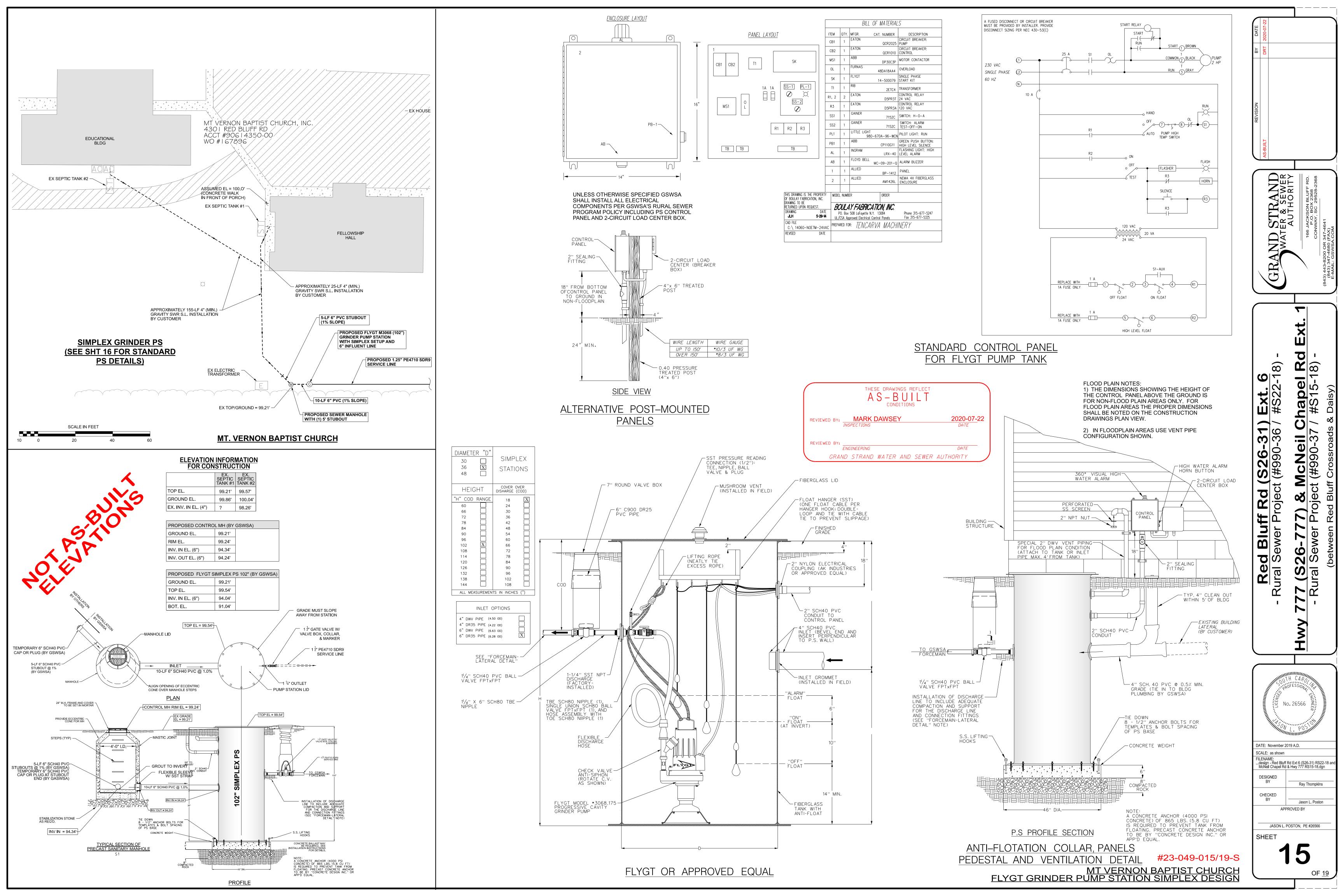


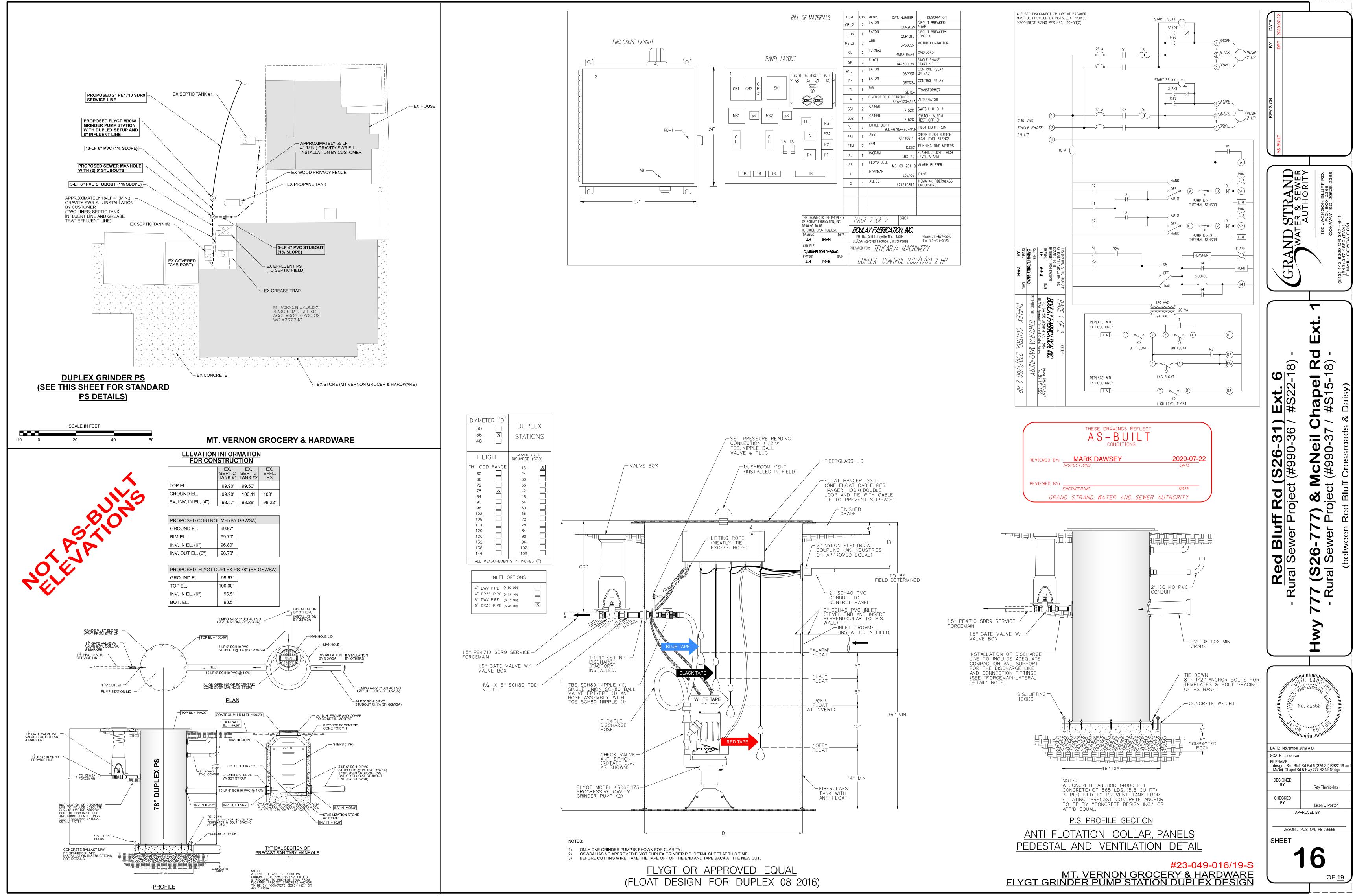
SCALE IN FEET

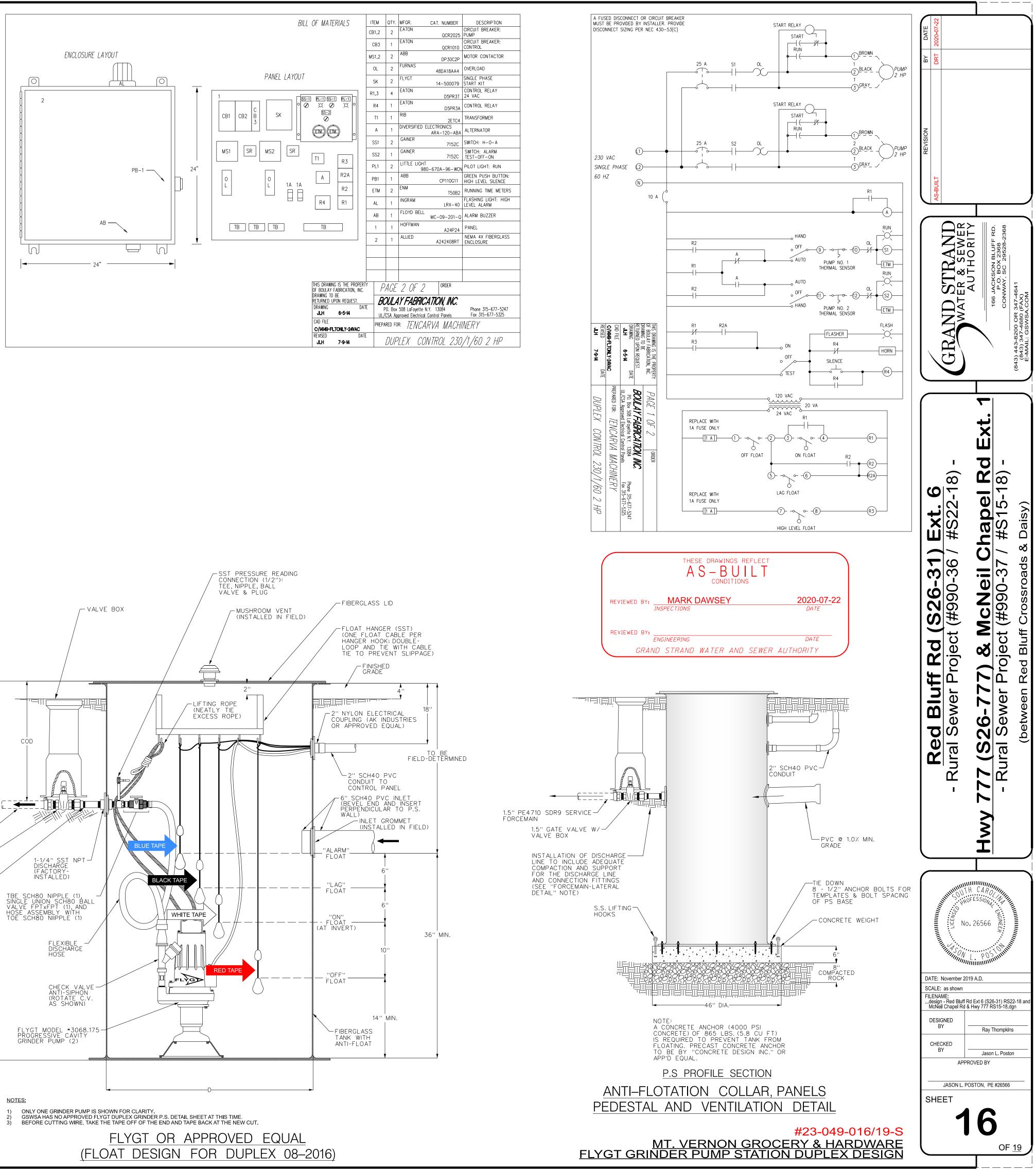
REVIEWED BY: MARK DAWSEY INSPECTIONS REVIEWED BY: ENGINEERING



Hwy 777 & McNeil Chapel Rd #S15-18







DIGITRAK LWD

Job Information

Job Location: Name: Pipeline Contract 13 Contact: Phone: Address: Red Bluff Road Hwy 777 City: Loris, SC

Receiver/Job Information 8 data points collected on unit Serial Number: 30118975 in Job 30 on 04/03/2020. Flags and Pins listed below (if applicable). All units in charts and tables are Distance in ft, Depth in ft, Pitch in %, Reference Elevation is not measured. Entry Point Relative Depth 0.00. Chart and Table zero are the Reference Elevation. Exit Terrain not surveyed

First Rod Length is 10.50 Typical Rod Length is 15.00 Last Rod Length is 15.00

otal number of rods 7

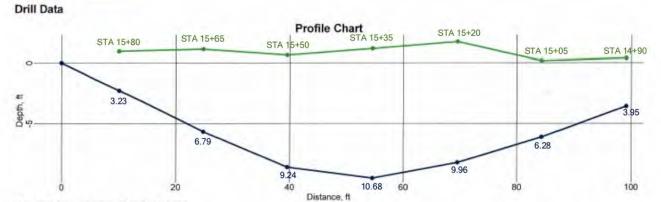
100' of 6" SDR17 - FM

STA 14+80 to STA 15+80

Job Comments

Drill at STA 15+80

DIGITRAK LWD



DataLog® Drill Report

Grand Strand Water & Sewer Authority

Client Information:

166 Jackson Bluff Road

Conway, SC, 29526

Contractor Information:

Jarred Shelley

843-397-4499

Lawrimore Construction, Inc.

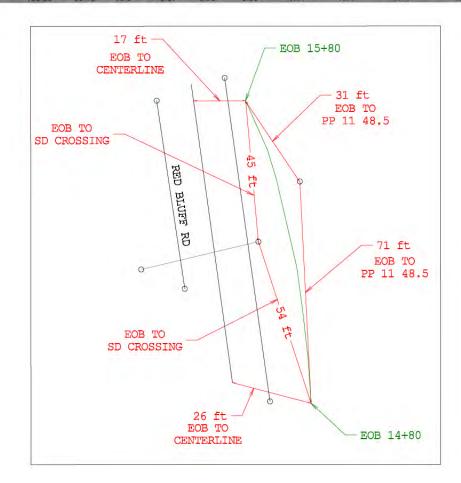
6240 Cypress Swamp Rd.

Conway, SC, 29527

Blue: Drill Path - Green: Calculated Terrain

DIGITRAK LWD

| FLP(Front | Locate) | - LL(Locate L | ine) - PO(F | Pitch On | ly) - BL(No D | ata) - o(o | verride) - f(| filled in) - i(*) | (interpolated) | | | |
|-----------|---------|---------------|-------------|----------|---------------|------------|---------------|-------------------|----------------|----------|-----------|--------------|
| Rod ID | Туре | Bore Len. | X Dist. | Pitch | Rel.Depth | Depth | Rel.Elev. | L/R Offset | Deviation | Latitude | Longitude | GNSS X Dist. |
| 10 | PO | 0.00 | 0.00 | -21.0 | 0.00 | | 0.00 | N/A | N/A | | | |
| - 1 | LL | 10.50 | 10.25 | -23.5 | -2.28 | 3.23 | 0.94 | N/A | N/A | N/A | N/A | N/A |
| 12 | LL | 25.50 | 24.86 | -23.0 | -5.68 | 6.79 | 1.10 | N/A | N/A | N/A | N/A | N/A |
| / 3 | LL | 40.50 | 39.57 | -17.0 | -9.62 | 9.24 | 0.62 | N/A | N/A | N/A | N/A | N/A |
| 14 | LL | 55.50 | 54.54 | 4.8 | -9.53 | 10.68 | 1.15 | N/A | N/A | N/A | N/A | N/A |
| . 5 | LL | 70.50 | 69.48 | 12.5 | -8.24 | 9.96 | 1.72 | N/A | N/A | N/A | N/A | N/A |
| . 6 | LL | 85.50 | 84.33 | 16.0 | -6.12 | 6.28 | 0.16 | N/A | N/A | N/A | N/A | N/A |
| 17 | 11 | 100.50 | 00 12 | 19.5 | .3 67 | 2.05 | 12.29 | NIZA | N/A | NI/A | N/A | NIA |



<u>6" Sewer Forcemain Directional Bore (100-lf)</u> <u>under drainage area</u> <u>at STA 14+80 to 15+80 (sht 4)</u>

DIGITRAK LWD

Job Information

| | Job Location: |
|----------|----------------------|
| Name: | Pipeline Contract 13 |
| Contact: | |
| Phone: | |
| Address: | Red Bluff Road |

166 Jackson Bluff Road Conway, SC, 29526

Receiver/Job Information 12 data points collected on unit Serial Number: 30118975 in Job 31 on 04/06/2020, Flags and Pins listed below (if applicable). All units in charts and tables are Distance in ft, Depth in ft, Pitch in %

Reference Elevation is not measured. try Point Relative Depth 0.00. Chart and Table zero are the Reference Elevation Exit Terrain not surveyed. First Rod Length is 10.50 Typical Rod Length is 15.00

Last Rod Length is 15.00 otal number of rods 11

Hwy 777

City: Loris, SC

Job Comments 150' of 6" x 10" SDR17

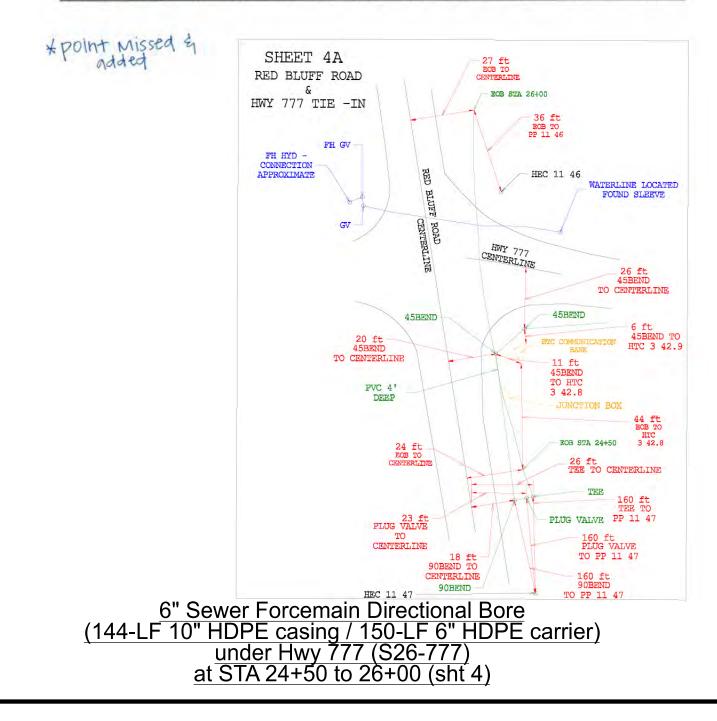
STA 24+50 to STA 26+00 Drill at STA 24+50

DIGITRAK LWD Drill Data

| | 24+50 | 24+65 | 24+80 | 24+95 | 1 |
|--------|-------|-------|-------|-------|----|
| 0 | 2.96 | | | | |
| ٥ ٩ | 2.00 | 6.04 | | | |
| 0 | | | 10.08 | | + |
| | | | | 14.68 | - |
| |) | 20 | 40 | | 50 |

DIGITRAIC LWD **Drill Data Points**

| | Rod ID | Type | Bore Len. | X Dist. | Pitch | Rel.Depth | Depth | R |
|----|--------|------|-----------|---------|-------|-----------|---------|---|
| | 0 | PO | 0.00 | 0.00 | -21.0 | 0.00 | | |
| | 1 | LL | 10.50 | 10.25 | -23.0 | -2.26 | 2.96 | |
| | 2 | LL | 25.50 | 24.87 | -23.0 | -5.63 | 6.04 | |
| 1 | 3 | 1L | 40.50 | 39.37 | -30.0 | -9.47 | 10,08 | 2 |
| 1 | 4 | LL | 55.50 | 53.85 | -24.0 | -13.38 | 14.68 | |
| *1 | 5 | PO | 70.50 | 68.62 | -12.0 | -16.03 | f 15.13 | |
| | 6 | LL | 85.50 | 83.59 | 0.9 | -16.86 | 15.57 | |
| 1 | 7 | LL | 100.50 | 98.58 | 6.0 | - 16.34 | 14.72 | |
| | 8 | LL | 115.50 | 113.55 | 8.4 | -15.26 | 13.58 | |
| | 9 | LL | 130.50 | 128.41 | 18.5 | -13.27 | 10.64 | |
| | 10 | LL | 145.50 | 143.11 | 22.5 | -10.26 | 7.24 | |
| 1 | 11 | LL | 160.50 | 157.71 | 24.5 | -5.84 | 3.22 | |



DataLog® Drill Report

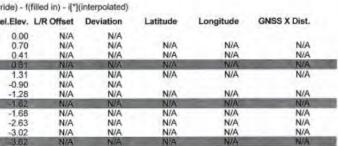
Client Information: Grand Strand Water & Sewer Authority

Jarred Shelley 843-397-4499 6240 Cypress Swamp Rd. Conway, SC, 29527

Contractor Information:

Lawrimore Construction, Inc.

rofile Chart +10 25+40 25+55 80 15.57 Distance, ft



DIGITRAIC LWD

Job Information Job Location:

Name: Pipeline Contract 13 Contact: Phone: Address: Red Bluff Road Hwy 777 City: Loris, SC

Client Information: Grand Strand Water & Sewer Authority 166 Jackson Bluff Road Conway, SC, 29526

DataLog® Drill Report

Contractor Information: Lawrimore Construction, Inc. Jarred Shelley 843-397-4499 6240 Cypress Swamp Rd. Conway, SC, 29527

9 data points collected on unit Serial Number: 30118975 in Job 38 on 04/17/2020. Flags and Pins listed below (if applicable). All units in charts and tables are Distance in ft, Depth in ft, Pitch in % Reference Elevation is not measured. Entry Point Relative Depth 0.00. Chart and Table zero are the Reference Elevation.

Exit Terrain not surveyed. First Rod Length is 10 50 Typical Rod Length is 15.00

Last Rod Length is 15.00 Total number of rods 8

Receiver/Job Information

100' of 6" SDR17

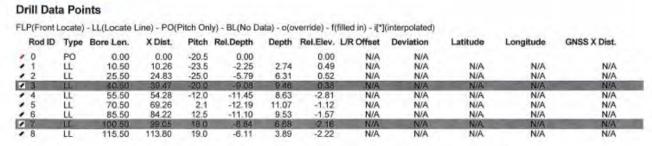
Job Comments

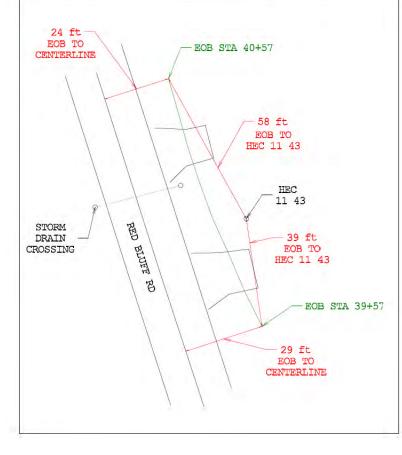
STA 39+57 to STA 40+57 Drill at STA 40+57

DIGITRAIC LWD

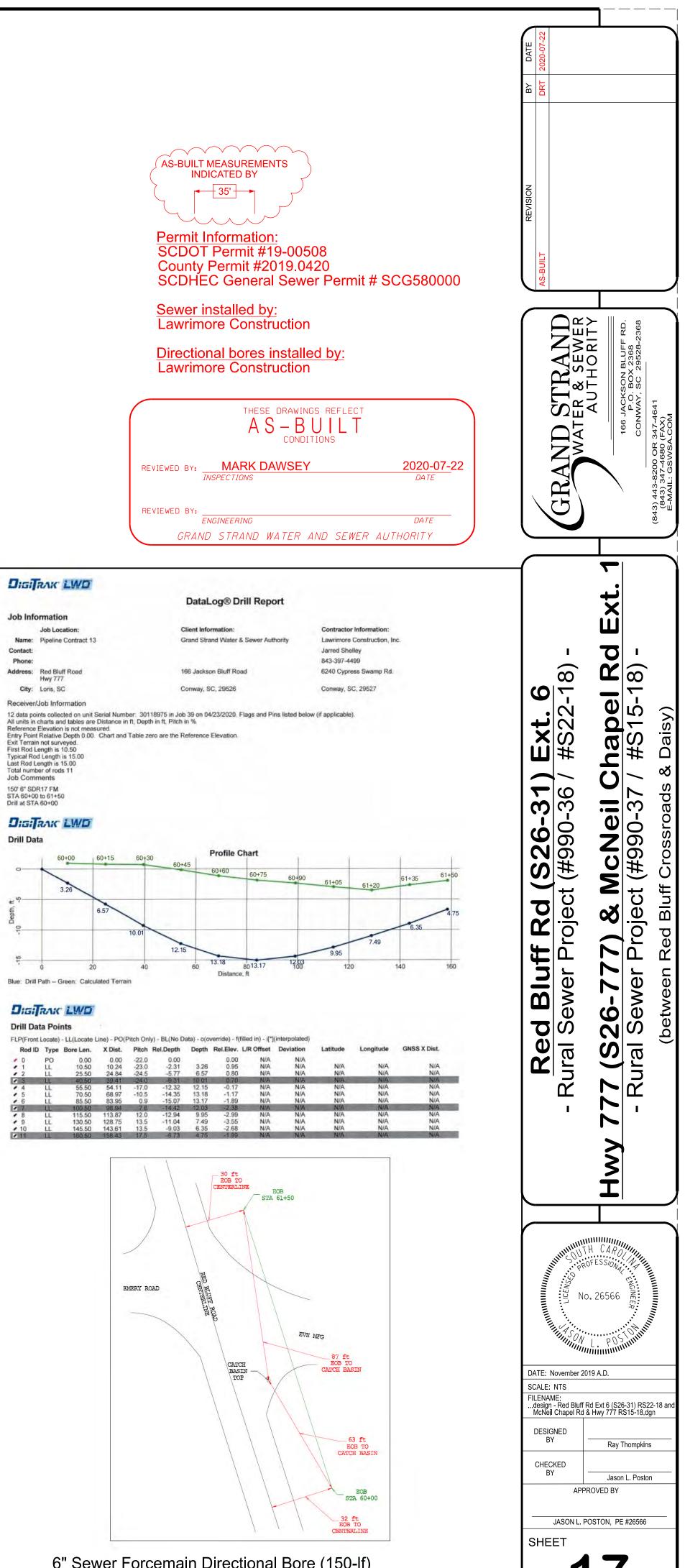


DIGITRAK LWD





<u>6" Sewer Forcemain Directional Bore (100-lf)</u> <u>under outfall and concrete aprons (2)</u> <u>at STA 39+57 to 40+57 (sht 5)</u>



6" Sewer Forcemain Directional Bore (150-lf) under EVH MFG Road at STA 60+00 to 61+50 (sht 7) #23

#23-049-017/19-S **Bore As-builts**

OF <u>19</u>

DIGITRAK LWD

Job Information Job Location: Name: Pipeline Contract 13

Contact: Phone: Address: Red Bluff Road Hwy 777 City: Loris, SC Receiver/Job Information

DataLog® Drill Report Client Information: Grand Strand Water & Sewer Authority

166 Jackson Bluff Road

Conway, SC, 29526

10 data points collected on unit Serial Number; 30118975 in Job 40 on 04/27/2020, Flags and Pins listed below (if applicable). All units in charts and tables are Distance in ft, Depth in ft, Pitch in %

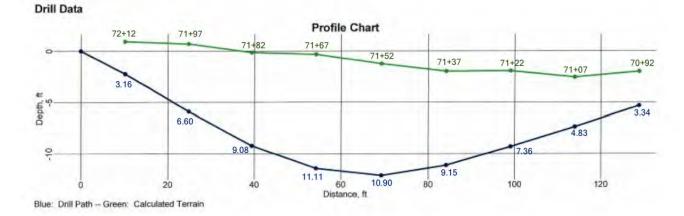
All units in charts and tables are Distance in it, Depth in it, Pitch in % Reference Elevation is not measured. Entry Point Relative Depth 0.00. Chart and Table zero are the Reference Elevation. Exit Terrain not surveyed. First Rod Length is 10.50 Typical Rod Length is 15.00 Last Rod Length is 15.00 Total number of rods 9 Lob Commonts

Contractor Information: Lawrimore Construction, Inc. Jarred Shelley 843-397-4499 6240 Cypress Swamp Rd. Conway, SC, 29527

DIGITRAK LWD

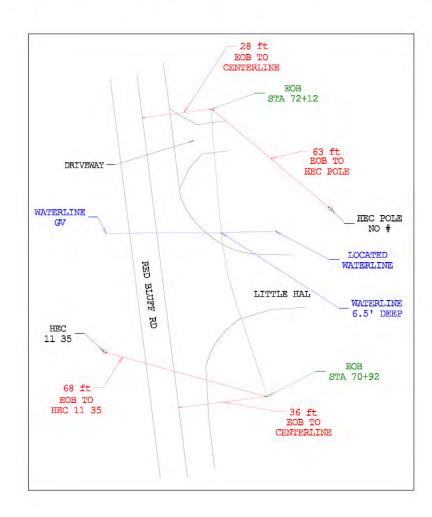
Job Comments

120' 6" SDR17 FM STA 70+92 to 72+12 0 = STA 72+12



DIGITRAK LWD

| FLP(Front | locate) | - LL(Locate L | line) - PO(F | Pitch On | ly) - BL(No D | ata) - o(o | verride) - f(| filled in) - i[*] | (interpolated) | | | |
|-----------|---------|---------------|--------------|----------|---------------|------------|---------------|-------------------|----------------|----------|-----------|--------------|
| Rod ID | Туре | Bore Len. | X Dist. | Pitch | Rel.Depth | Depth | Rel.Elev. | L/R Offset | Deviation | Latitude | Longitude | GNSS X Dist. |
| . 0 | PO | 0.00 | 0.00 | -20.0 | 0.00 | | 0.00 | N/A | N/A | | | |
| 1 1 | LL | 10.50 | 10.26 | -23.5 | -2.23 | 3.16 | 0.93 | N/A | N/A | N/A | N/A | N/A |
| 12 | LL | 25.50 | 24.80 | -27.0 | -5.91 | 6.60 | 0.70 | N/A | N/A | N/A | N/A | N/A |
| / 3 | U | 40.50 | 39.43 | -18.5 | -9.23 | 9.08 | -0.15 | N/A | NA | N/A | N/A | NA |
| 14 | LL | 55.50 | 54.27 | -11.5 | -11.45 | 11.11 | -0.33 | N/A | N/A | N/A | N/A | N/A |
| 1 5 | LL | 70.50 | 69.25 | 2.1 | -12.15 | 10.90 | -1.25 | N/A | N/A | N/A | N/A | N/A |
| . 6 | LL | 85.50 | 84.21 | 11.5 | -11.14 | 9.15 | -1.98 | N/A | N/A | N/A | N/A | N/A |
| 17 | LL | 100.50 | 99.10 | 13.0 | 9.32 | 7.36 | 1.95 | N/A | N/A | N/A | N/A | N/A |
| / 8 | LL | 115.50 | 113.98 | 13.0 | -7.39 | 4.83 | -2.56 | N/A | N/A | N/A | N/A | N/A |
| . 9 | LL | 130.50 | 128.84 | 14.5 | -5.35 | 3.34 | -2.00 | N/A | N/A | N/A | N/A | N/A |



<u>6" Sewer Forcemain Directional Bore (120-lf)</u> <u>under Little Hal Ln</u> <u>at STA 70+92 to 72+12 (sht 7)</u>

DIGITRAK LWD

Job Information Job Location:

Name: Pipeline Contract 13 Contact: Phone: Address: Red Bluff Road Hwy 777 City: Loris, SC

Receiver/Job Information 16 data points collected on unit Serial Number: 30118975 in Job 46 on 05/19/2020. Flags and Pins listed below (if applicable). All units in charts and tables are Distance in ft, Depth in ft, Pitch in % Reference Elevation is not measured. Entry Point Relative Depth 0.00. Chart and Table zero are the Reference Elevation. Exit Terrain not surveyed First Rod Length is 10.50

Typical Rod Length is 15.00 Last Rod Length is 15.00 Total number of rods 15 Job Comments

200' 6" FM SDR17 STA 80+80 to 82+80 0 = STA 80+80

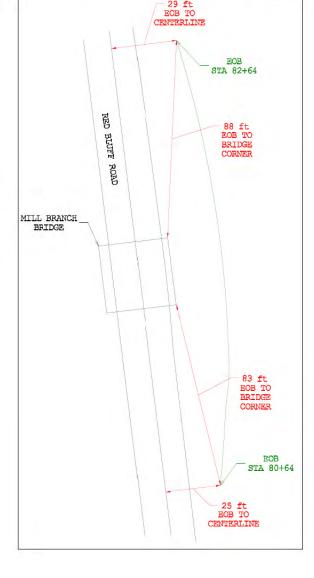
DIGITRAK LWD

Drill Data STA 80+70 STA 81+00 STA 81+30

Blue: Drill Path -- Green: Calculated Terrain

DIGITRAK LWD **Drill Data Points**

| | Rod ID | Type | Bore Len. | X Dist. | Pitch | Rel.Depth | Depth | F |
|---|--------|------|-----------|---------|-------|-----------|-------|---|
| 1 | 0 | PO | 0.00 | 0.00 | -23.5 | 0.00 | | |
| 1 | 1 | LL | 10.50 | 10.22 | -23.5 | -2.40 | 1.16 | |
| 1 | 2 | LL | 25.50 | 24.81 | -24.5 | -5.91 | 3.48 | |
| 1 | 3 | LL | 40.50 | 39.34 | -26.5 | -9.61 | 8.43 | |
| 1 | 4 | LL | 55.50 | 53.80 | -28.5 | -13.59 | 12.30 | |
| 1 | 5 | LL | 70.50 | 68.36 | -21.0 | -17.20 | 16.16 | |
| 1 | 6 | LL | 85.50 | 83.12 | -15.5 | -19.89 | 15.83 | |
| 1 | 7 | LL | 100.50 | 98.03 | -6.2 | -21.50 | 15.40 | |
| 1 | 8 | LL | 115.50 | 113.03 | 4.4 | -21.64 | 12.73 | |
| 1 | 9 | LL | 130.50 | 128.02 | 4.4 | -20.98 | 13.03 | |
| 1 | 10 | LL | 145.50 | 142.99 | 9.0 | -19.98 | 12.07 | _ |
| 1 | 11 | LL | 160.50 | 157.86 | 17.0 | -18.05 | 9.83 | |
| 1 | 12 | LL | 175.50 | 172.59 | 21.5 | -15.22 | 8.86 | |
| 1 | 13 | LL | 190.50 | 187.31 | 17.5 | -12.35 | 7.42 | |
| 1 | 14 | LL | 205.50 | 202.18 | 9.5 | -10.35 | 4.73 | |
| 1 | 15 | LL | 220.50 | 217.14 | 4.6 | -9.30 | 4.05 | |



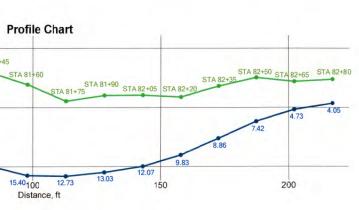
DataLog® Drill Report

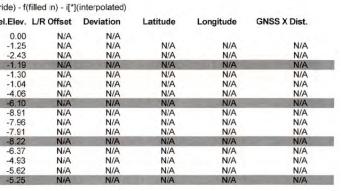
Client Information: Grand Strand Water & Sewer Authority 166 Jackson Bluff Road

Conway, SC, 29526

Lawrimore Construction, Inc. Jarred Shelley 843-397-4499 6240 Cypress Swamp Rd. Conway, SC, 29527

Contractor Information:





<u>6" Sewer Forcemain Directional Bore (200-lf)</u> <u>at Mill Branch</u> <u>at STA 80+64 to 82+64 (sht 8)</u>

DIGITRAK LWD

Job Information Job Location:

Name: Pipeline Contract 13 Contact: Phone: Address: Red Bluff Road Hwy 777 City: Loris, SC

Receiver/Job Information

Client Information: Grand Strand Water & Sewer Authority 166 Jackson Bluff Road Conway, SC, 29526

DataLog® Drill Report

Contractor Information

Jarred Shelley

843-397-4499

Conway, SC, 29527

Lawrimore Construction, Inc.

6240 Cypress Swamp Rd.

14 data points collected on unit Serial Number: 30118975 in Job 41 on 04/29/2020. Flags and Pins listed below (if applicable). All units in charts and tables are Distance in ft, Depth in ft, Pitch in % Reference Elevation is not measured.

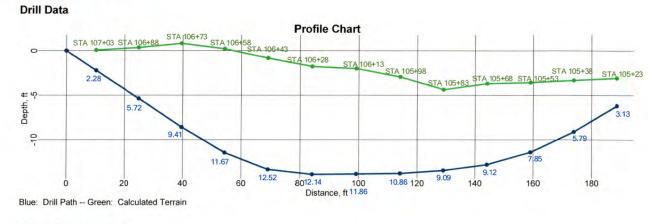
Entry Point Relative Depth 0.00. Chart and Table zero are the Reference Elevation. Exit Terrain not surveyed. First Rod Length is 10.50

Typical Rod Length is 15.00 Last Rod Length is 15.00 Total number of rods 13

Job Comments

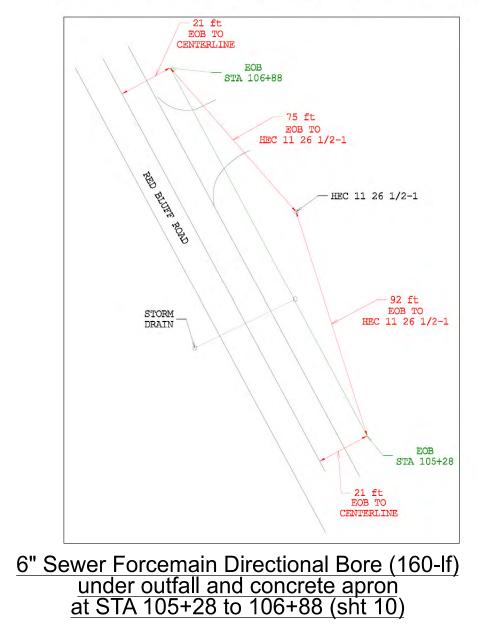
170' 6" SDR17 FM STA 105+23 to 106+93 0 = STA 106+93

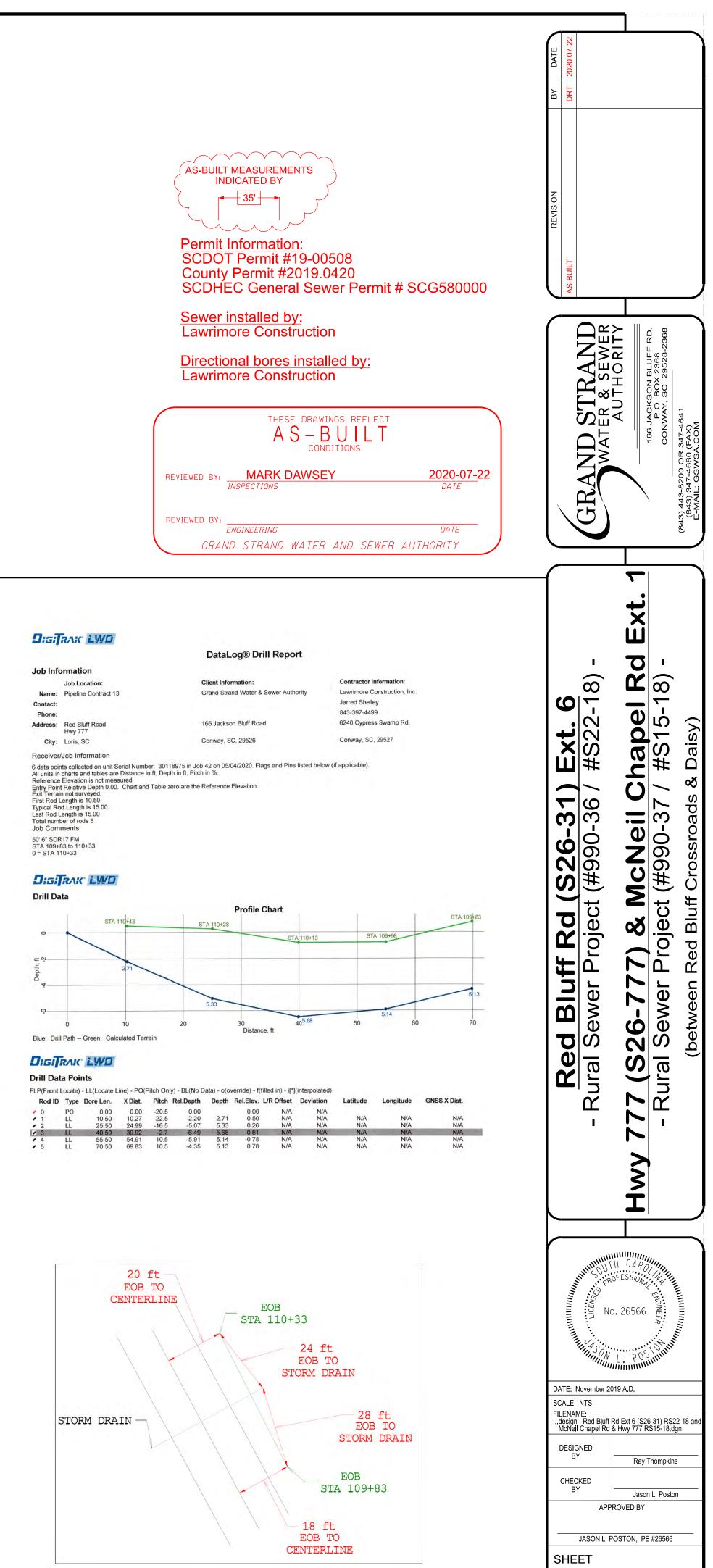
DIGITRAK LWD



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| | Locate) | - LL(LUCale I | line) = PO(r | Sitch Un | IY) - BL(NO D | ata) - o(0) | verride) - T(| filled in) - i[^] | (interpolated) | | | |
|--------|---------|---------------|--------------|----------|---------------|-------------|---------------|-------------------|----------------|----------|-----------|--------------|
| Rod ID | Туре | Bore Len. | X Dist. | Pitch | Rel.Depth | Depth | Rel.Elev. | L/R Offset | Deviation | Latitude | Longitude | GNSS X Dist. |
| 0 | PO | 0.00 | 0.00 | -21.0 | 0.00 | | 0.00 | N/A | N/A | | | |
| • 1 | LL | 10.50 | 10.27 | -22.0 | -2.21 | 2.28 | 0.07 | N/A | N/A | N/A | N/A | N/A |
| 2 | LL | 25.50 | 24.93 | -21.0 | -5.36 | 5.72 | 0.36 | N/A | N/A | N/A | N/A | N/A |
| 3 | LL | 40.50 | 39.58 | -23.0 | -8.59 | 9.41 | 0.82 | N/A | N/A | N/A | N/A | N/A |
| 4 | LL | 55.50 | 54.30 | -16.0 | -11.46 | 11.67 | 0.21 | N/A | N/A | N/A | N/A | N/A |
| 5 | LL | 70.50 | 69.18 | -9.5 | -13.35 | 12.52 | -0.83 | N/A | N/A | N/A | N/A | N/A |
| 6 | LL | 85.50 | 84.17 | 2.0 | -13.91 | 12.14 | -1.77 | N/A | N/A | N/A | N/A | N/A |
| 7 | LL | 100.50 | 99.17 | -1.4 | -13.87 | 11.86 | -2.01 | N/A | N/A | N/A | N/A | N/A |
| 8 | LL | 115.50 | 114.17 | 2.2 | -13.80 | 10.86 | -2.94 | N/A | N/A | N/A | N/A | N/A |
| 9 | LL | 130.50 | 129.17 | 2.2 | -13.47 | 9.09 | -4.38 | N/A | N/A | N/A | N/A | N/A |
| 10 | LL | 145.50 | 144.15 | 6.6 | -12.81 | 9.12 | -3.69 | N/A | N/A | N/A | N/A | N/A |
| 11 | LL | 160.50 | 159.09 | 12.0 | -11.42 | 7.85 | -3.57 | N/A | N/A | N/A | N/A | N/A |
| 12 | LL | 175.50 | 173.91 | 19.0 | -9.12 | 5.79 | -3.32 | N/A | N/A | N/A | N/A | N/A |
| 13 | LL | 190.50 | 188.63 | 20.5 | -6.21 | 3.13 | -3.09 | N/A | N/A | N/A | N/A | N/A |



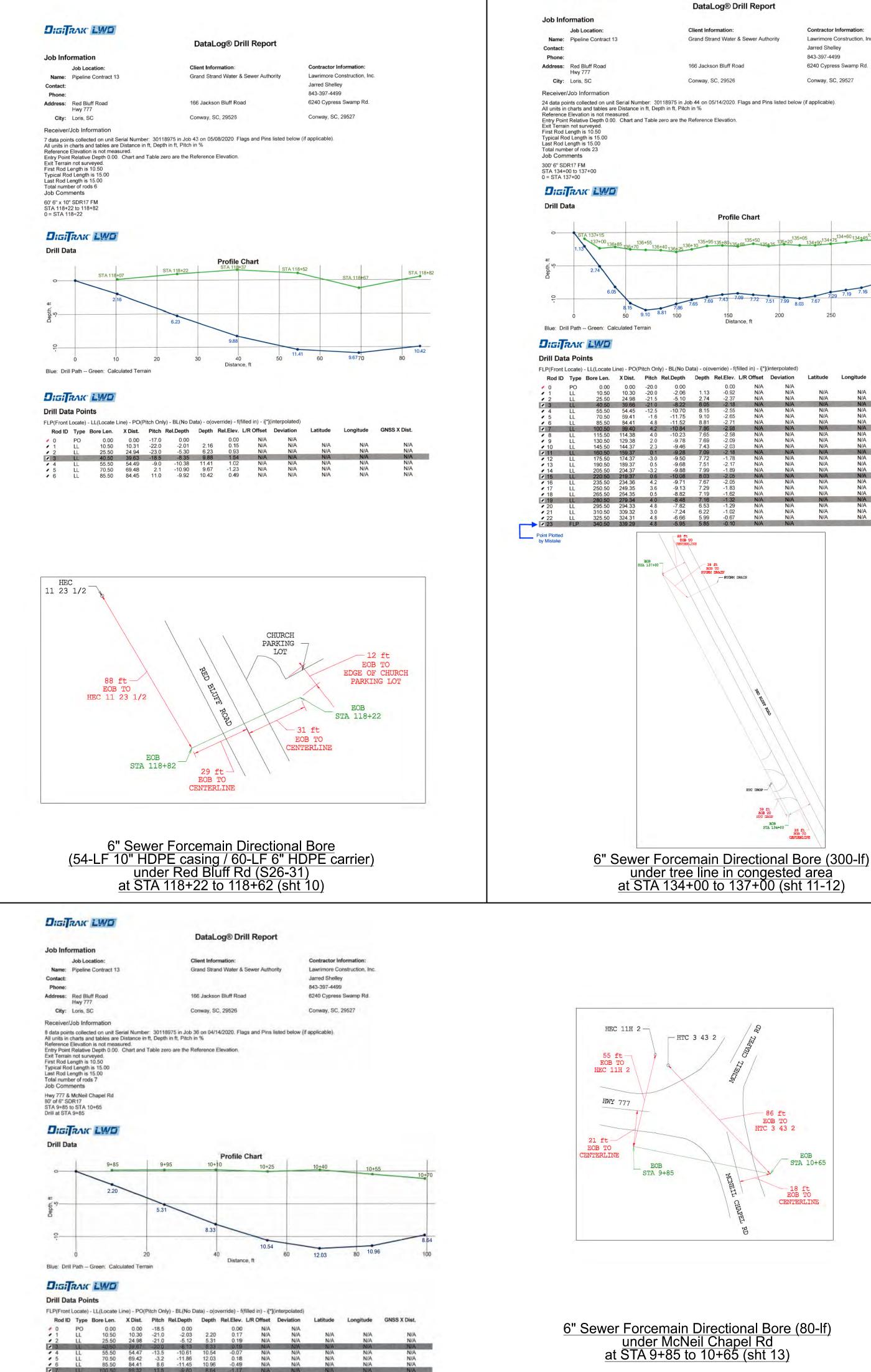


<u>6" Sewer Forcemain Directional Bore (50-lf)</u> <u>under cross drain</u> at STA 109+83 to 110+33 (sht 10) #2

#23-049-018/19-S Bore As-builts

8

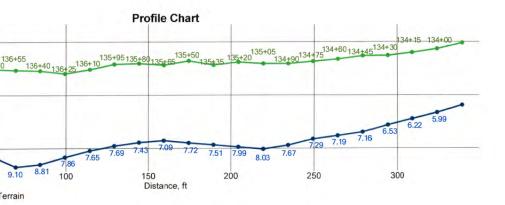
OF <u>19</u>

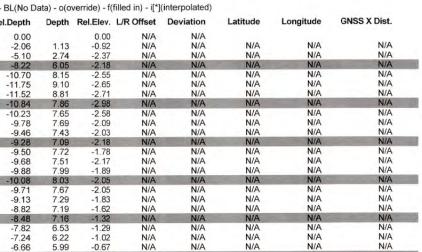


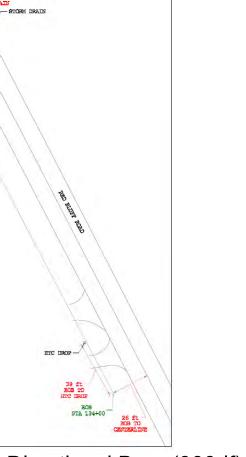


DIGITRAK LWD

| m: | Contractor Information: |
|------------------------|------------------------------|
| ater & Sewer Authority | Lawrimore Construction, Inc. |
| | Jarred Shelley |
| | 843-397-4499 |
| f Road | 6240 Cypress Swamp Rd. |
| 526 | Conway, SC, 29527 |
| | |







under tree line in congested area at STA 134+00 to 137+00 (sht 11-12)

