SEE SHEET IL1 FOR INDEX OF SHEETS

TRAFFIC DATA

ADT N/A

__ ADT _____N/A

SOUTH CAROLINA

CALL 811

RAILROAD INVOLVEMENT? YES NO

N/A

N/A



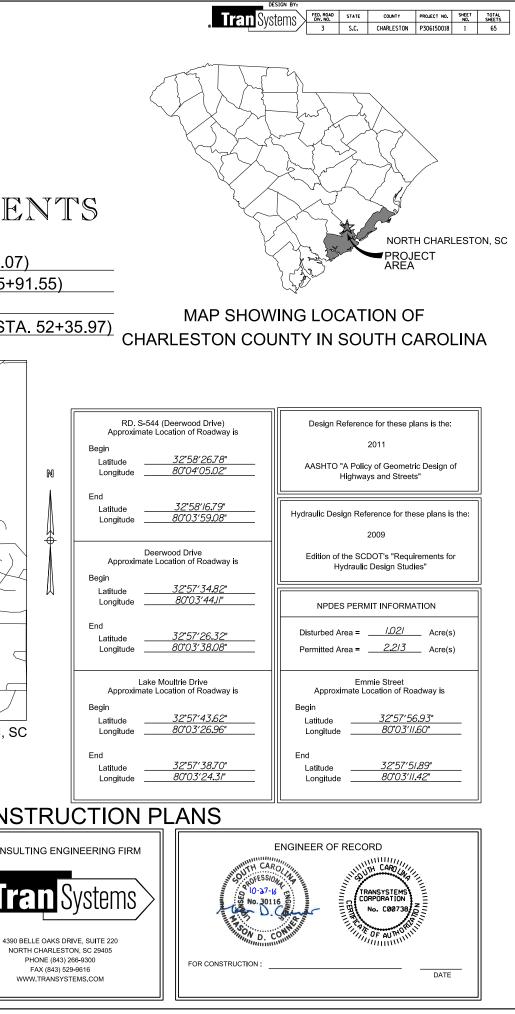
DISTRICT 3 SIDEWALK IMPROVEMENTS

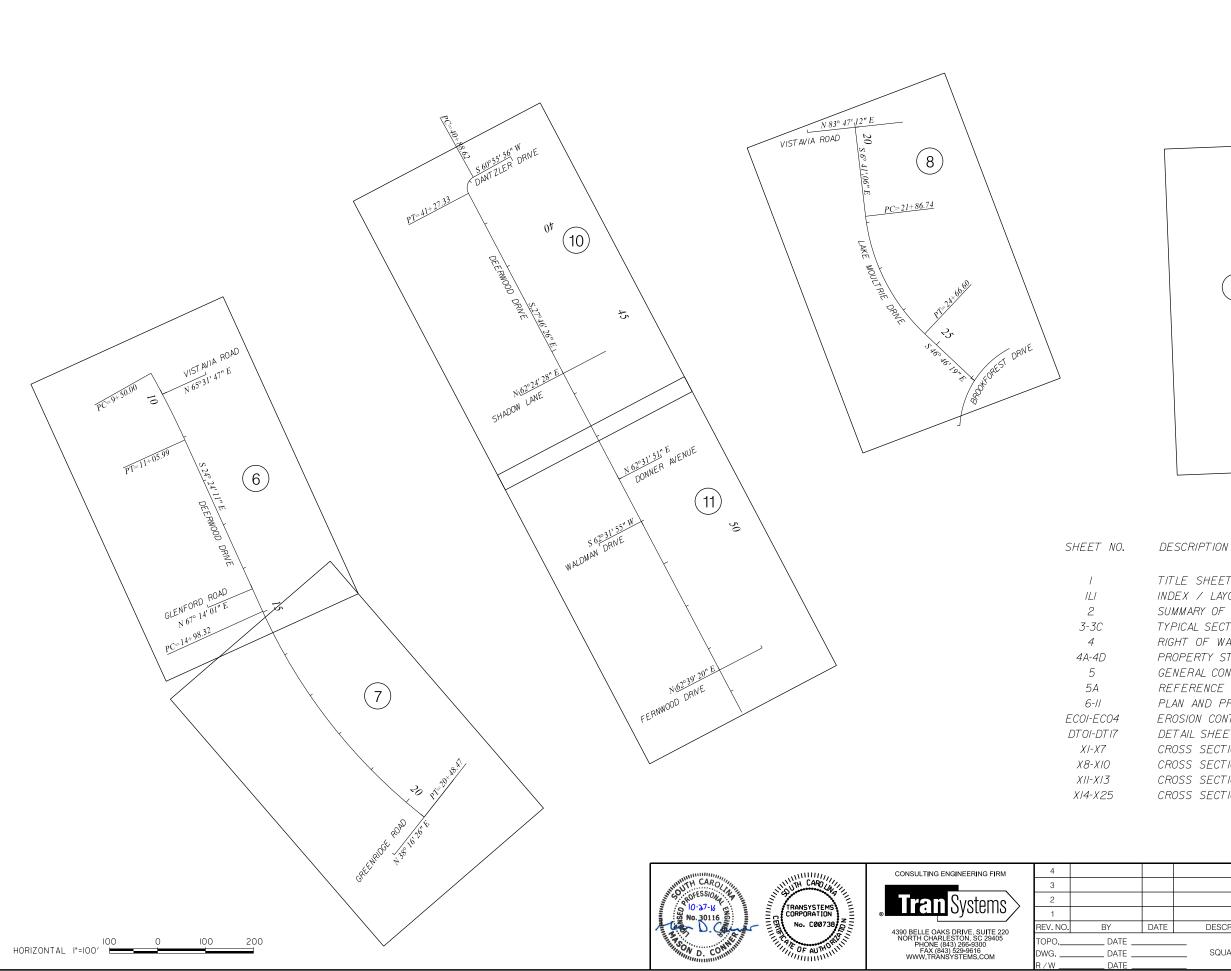
CITY OF NORTH CHARLESTON, SC TO: DEERWOOD DRIVE (STA. 20+31.07) FROM: DEERWOOD DRIVE (STA. 10+15.02) TO: LAKE MOULTRIE DRIVE (STA. 25+91.55) FROM: LAKE MOULTRIE DRIVE (STA. 20+13.55) FROM: HAYDEN GLENN DRIVE (STA. 29+59.84) TO: EMMIE STREET (STA. 34+85.51) TO: RD. S-544 DEERWOOD DRIVE (STA. 52+35.97) FROM: RD. S-544 DEERWOOD DRIVE (STA. 41+01.50) SURVEY STA. 41.01.50 BEGIN CONSTRUCTION ERNWOOD DR RD.S-544 (DEERWOOD DRIVE) SEE SHEET 10 7 SURVEY STA. 52-35.97 END CONSTRUCTION RD.S-544 (DEERWOOD DRIVE) Begin N SEE SHEET II End SURVEY STA. 29+59.84 BEGIN CONSTRUCTION OTRANTO RD HAYDEN GLENN DRIVE -SEE SHEET 9 SURVEY STA. 34-85.5 END CONSTRUCTION Begin EMMIE STREET SEE SHEET 9 SURVEY STA. 20+13.55 BEGIN CONSTRUCTION End LAKE MOULTRIE DRIVE SEE SHEET 8 SURVEY STA. 25-91.55 END CONSTRUCTION LAKE MOULTRIE DRIVE SEE SHEET 8 SURVEY STA. 10+15.02 BEGIN CONSTRUCTION DEERWOOD DRIVE SEE SHEET 6 Beain CHARLESTON COUNTY PROJECT NORTH CHARLESTON, SC LOCATION MAP SURVEY STA. 20+31.0 END CONSTRUCTION DEERWOOD DRIVE SEE SHEET 7 End N.T.S. TRUCKS <u>N/A %</u> DEERWOOD DRIVE LAKE MOULTRIE RD. S-544 EERWOOD DI PROJECT TOTAL EMMIE STREET NET LENGTH OF ROADWAY 0.192 0.109 0.215 0.616 MILES 0.100 CONSTRUCTION PLANS 3 DAYS BEFORE DIGGING IN NET LENGTH OF BRIDGES 0.000 0.000 0.000 0.000 0.000 MILES NET LENGTH OF PROJECT 0.192 0.109 0.100 0.215 0.616 MILES CONSULTING ENGINEERING FIRM LENGTH OF EXCEPTIONS 0.000 0.000 0.000 0.000 0.000 MILES PALMETTO UTILITY PROTECTION SERVICES, INC. (PUPS) GROSS LENGTH OF PROJEC 0.192 0 109 0.100 0.215 0.616 MILES ALL UTILITIES MAY NOT BE A MEMBER OF PUPS. **Systems**

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

PHONE (843) 266-9300

FAX (843) 529-9616





| DESIGN | PY. | | | | | | |
|--|------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran System | | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 10 3 | S.C. | CHARLESTON | P306150018 | | ILI | 65 |
| TULANE ROAD N 87° 30' 00" E 9 9 | 20 | | | | | | |

INDEX OF SHEETS

OTRANTO ROAD

SHEET SUBTOTALS

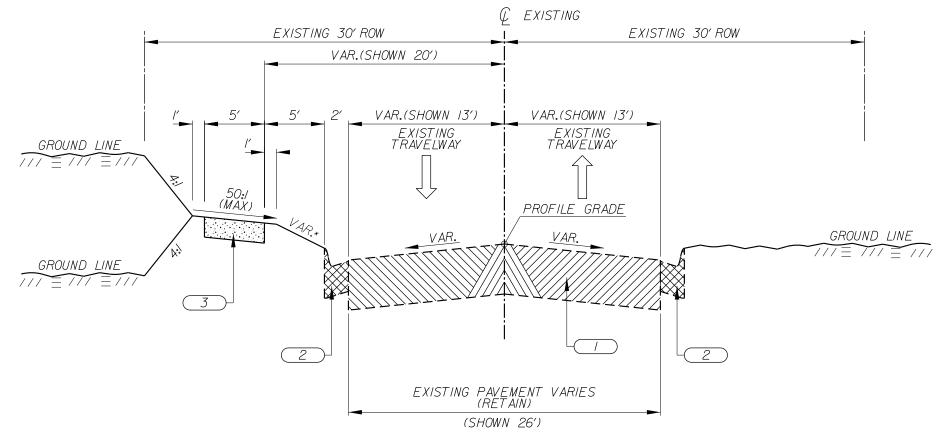
| ITLE SHEET | / |
|---|------|
| IDEX / LAYOUT SHEET | / |
| UMMARY OF ESTIMATED QUANTITIES SHEET | OMIT |
| YPICAL SECTION SHEETS | 4 |
| IGHT OF WAY DATA SHEET | / |
| ROPERTY STRIP MAP SHEETS | 4 |
| ENERAL CONSTRUCTION NOTES SHEET | / |
| EFERENCE DATA SHEET | / |
| LAN AND PROFILE SHEETS | 6 |
| ROSION CONTROL DETAIL SHEETS | 4 |
| ETAIL SHEETS | 17 |
| ROSS SECTION SHEETS (DEERWOOD DRIVE) | 7 |
| ROSS SECTION SHEETS (LAKE MOULTRIE DRIVE) | 3 |
| ROSS SECTION SHEETS (EMMIE STREET) | 3 |
| ROSS SECTION SHEETS RD.S-544 (DEERWOOD DRIVE) | 12 |
| | |

35

65

| | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
|-------------------------|---|
| DESCRIPTION OF REVISION | INDEX LAYOUT SHEET |
| SQUAD | |
| | RTE./RD. ALL ROADS |

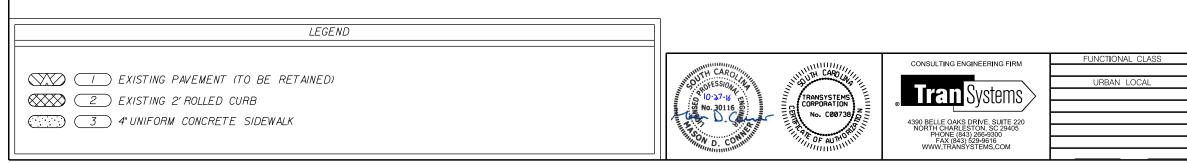
TYPICAL SECTION OF IMPROVEMENT CITY OF NORTH CHARLESTON DEERWOOD DRIVE



USE THIS SECTION ON: DEERWOOD DRIVE FROM STA. 10+15.02 TO STA. 20+31.07 N.T.S.

SECTION NOTES:

VARIABLE SLOPE SHOWN IO: (MAX 3: I). SEE CROSS SECTION SHEETS FOR RECOMMENDED SLOPES.

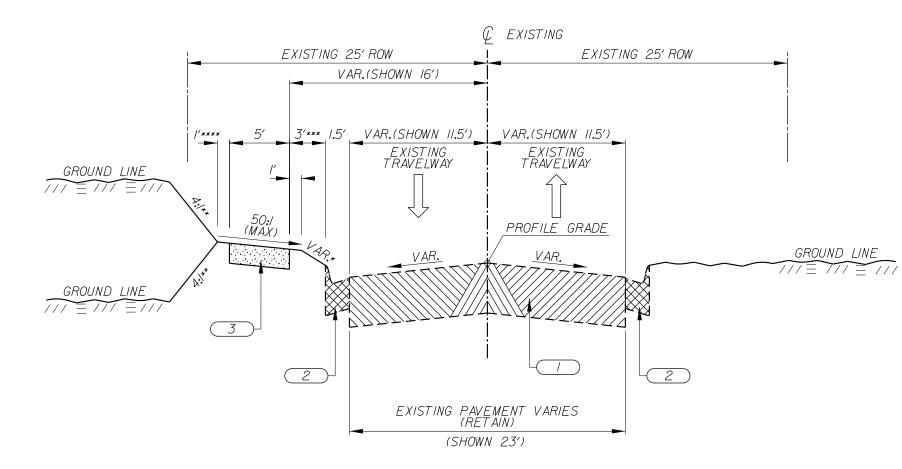


| DESIGN BY: | | | | | | | |
|-----------------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems > | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| " | 3 | s.c. | CHARLESTON | P306150018 | DEERWOOD | 3 | 65 |
| | | | | | | | |



| | DESIGN | SPEED | | | | | | | |
|-----|-----------|----------|--------------------------|--|--|--|--|--|--|
| MPH | FROM STA. | TO STA. | D3 SIDEWALK IMPROVEMENTS | | | | | | |
| N⁄A | 10+15.02 | 20+31.07 | CHARLESTON COUNTY, S.C. | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | TYPICAL SECTION | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | RTE./RD. DEERWOOD DRIVE | | | | | | |
| | | | | | | | | | |

TYPICAL SECTION OF IMPROVEMENT CITY OF NORTH CHARLESTON LAKE MOULTRIE DRIVE

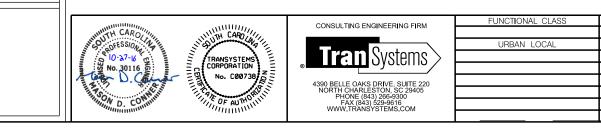


SECTION NOTES:

- * VARIABLE SLOPE (SHOWN 8:1).SEE CROSS SECTION SHEETS FOR RECOMMENDED SLOPES.
- ** 4:1 DESIRED (2:1 MAX).SEE CROSS SECTION SHEETS FOR RECOMMENDED SLOPES.
- *** 2' SIDEWALK BUFFER AREA FROM STA. 20+30.86 TO STA. 22+18.12
- **** 0.5' FROM STA. 20+30.86 TO STA. 22+18.12

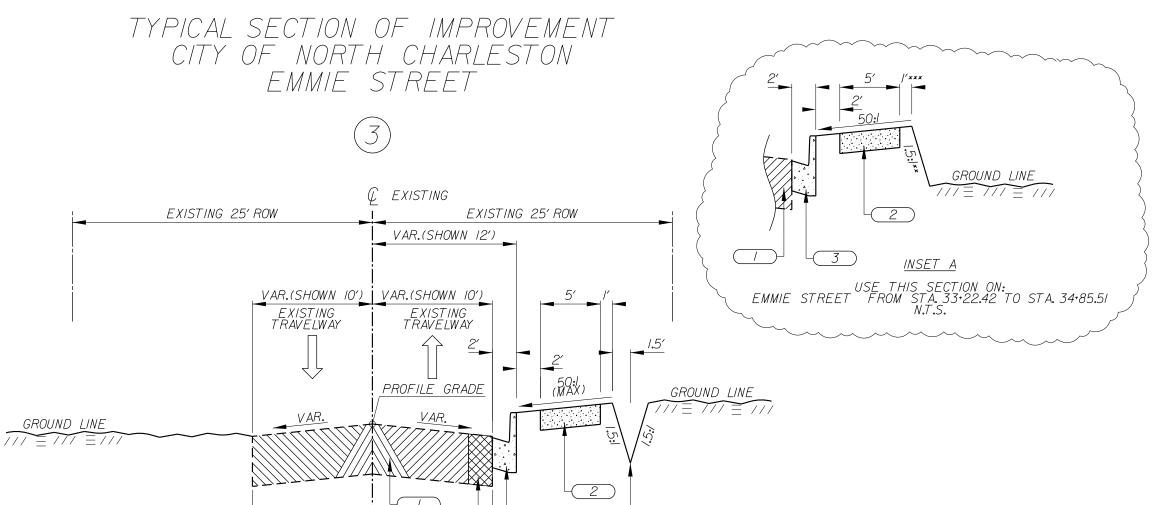
LEGEND VX I EXISTING PAVEMENT (TO BE RETAINED) VX 2 EXISTING I.5' ROLLED CURB VX 3 4" UNIFORM CONCRETE SIDEWALK

USE THIS SECTION ON: LAKE MOULTRIE DRIVE FROM STA. 20+13.55 TO STA. 25+91.55 N.T.S.



| DESIGN BT | | | | | | | |
|--------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 3 | s.c. | CHARLESTON | P306150018 | LAKE MOULTRIE | 3A | 65 |
| | | | | | | | |

| DESIGN SPEED | | SPEED | | | | | | | |
|--------------|-----------|----------|------------------------------|--|--|--|--|--|--|
| MPH | FROM STA. | TO STA. | D3 SIDEWALK IMPROVEMENTS | | | | | | |
| N⁄A | 20+13.55 | 25+91.55 | CHARLESTON COUNTY, S.C. | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | TYPICAL SECTION | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | RTE./RD. LAKE MOULTRIE DRIVE | | | | | | |



3

 $\overline{4}$

EXISTING PAVEMENT VARIES (RETAIN) (SHOWN 20')

USE THIS SECTION ON: EMMIE STREET FROM STA. 30+18.17 TO STA. 33+22.42 N.T.S.

SECTION NOTES:

- SEE INSET A FOR TYPICAL PIPE SECTION. ×
- VARIABLE SLOPE FOR DITCH DRAINAGE.(MAX SLOPE 1.5:1). SEE CROSS SECTION SHEETS FOR RECOMMENDED SLOPES. **
- *** 0.5' AT BACK OF PROPOSED TYPE-16 CATCH BASINS.

| LEGEND | | | |
|---|---------------------|--|------------------|
| I EXISTING PAVEMENT (TO BE RETAINED) 2 4" UNIFORM CONCRETE SIDEWALK 3 CONCRETE CURB AND GUTTER WITH VERTICAL FACE (2'-0") 4 2' FULL DEPTH PAVEMENT PATCH | CARO OF AUTRONIC | CONSULTING ENGINEERING FIRM TransSystems 4390 BELLE OAKS DRIVE, SUITE 220 NORTH CHARLESTON, SC 29405 PHONE (843) 266-9300 FAX (843) 529-9616 WWW.TRANSYSTEMS.COM | FUNCTIONAL CLASS |

| DESIGN BY: | | | | | | | |
|-----------------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems > | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| « Oyotomo | 3 | s.c. | CHARLESTON | P306150018 | EMMIE | 3B | 65 |
| | | | | | | | |

L*DITCH DEPTH = I'

NOTES:

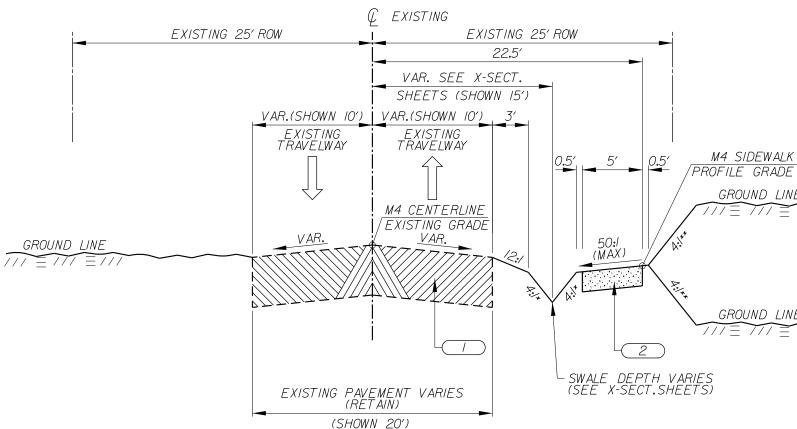
1)

SEE SHEET DT05 FOR DETAIL OF CONCRETE CURB AND GUTTER WITH VERTICAL FACE (2'-0").

| DESIGN SPEED | | | | | | | | | |
|--------------|-----------|---------------|--------------------------|--|--|--|--|--|--|
| MPH | FROM STA. | TO STA. | D3 SIDEWALK IMPROVEMENTS | | | | | | |
| N⁄A | 30+18.17 | 34 + 85.51 | CHARLESTON COUNTY, S.C. | | | | | | |
| | | | | | | | | | |
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| | | | TYPICAL SECTION | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | RTE./RD. EMMIE STREET | | | | | | |
| | | MPH FROM STA. | MPH FROM STA. TO STA. | | | | | | |

TYPICAL SECTION OF IMPROVEMENT CITY OF NORTH CHARLESTON RD.S-544 (DEERWOOD DRIVE)

4



USE THIS SECTION ON: RD.S-544 (DEERWOOD DRIVE) FROM STA. 40+01.50 TO STA. 52+35.97 N.T.S.



- VARIABLE SLOPE AND LENGTH (MAX 2:1). SEE CROSS SECTION SHEETS FOR RECOMMENDED SLOPES AND LENGTHS. ×
- 4:1 DESIRED 2:1 MAX. SEE CROSS SECTION SHEETS FOR RECOMMENDED SLOPES. **

| LEGEND | | | FUNCTIONAL CLASS |
|---|--|-----------------------------|------------------|
| I EXISTING PAVEMENT (TO BE RETAINED) 2 4" UNIFORM CONCRETE SIDEWALK | D. COMPARING DE CONPORATION D. COMPARING DE CONPORATION D. COMPARING DE CONPORATION No. CO07380 | CONSULTING ENGINEERING FIRM | URBAN LOCAL |

| DESIGN BY: | | | | | | | |
|-----------------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| , Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 3 | s.c. | CHARLESTON | P306150018 | S-544 | 3C | 65 |
| | | | | | | | |

GROUND LINE $\overbrace{/// \equiv /// \equiv ///}$

GROUND LINE

| | DESIGN | SPEED | | | | |
|-----|-----------|----------|---------------------------------|--|--|--|
| MPH | FROM STA. | TO STA. | D3 SIDEWALK IMPROVEMENTS | | | |
| N⁄A | 40+01.50 | 52+35.97 | CHARLESTON COUNTY, S.C. | | | |
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| | | | TYPICAL SECTION | | | |
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| | | | RTE./RD. S-544 (DEERWOOD DRIVE) | | | |

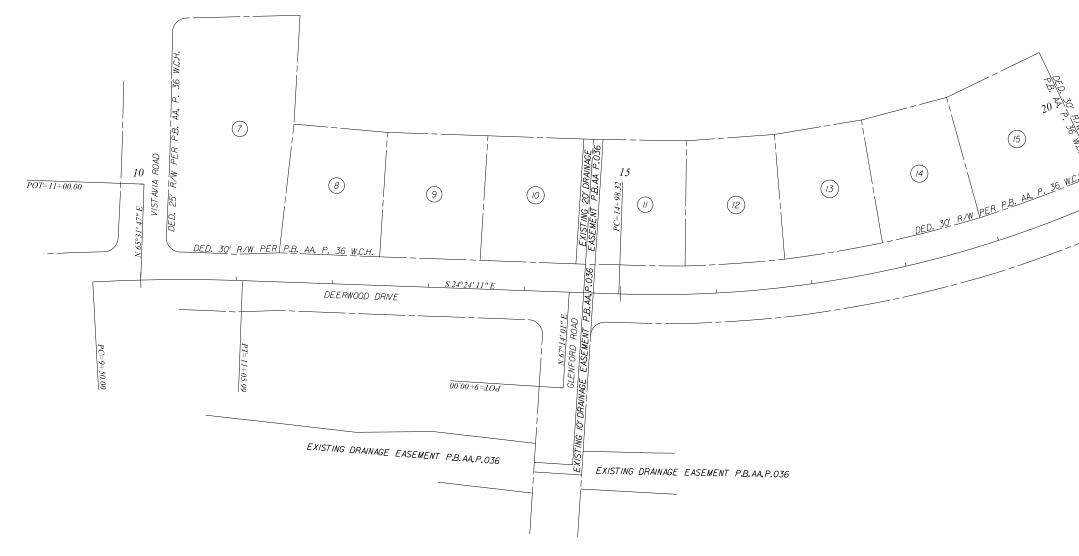
CITY OF NORTH CHARLESTON RICHT-OF-WAY DATA SHEET

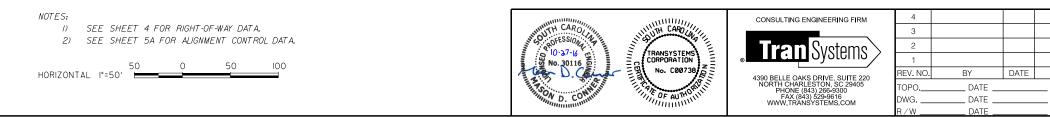
| | | | | | | RIGH | IT-OF- | WAY D | ATA S | HEET | | | | | | | | |
|--------------|--|----------------------|----------------------|------------------|-----|------|--------|----------------------------|-----------------------------|------------------|-----------------------|--|------------------------------|---|---|---|-------------------------------------|---|
| TRACT NO. | PROPERTY OWNER | TAX MAP REFERENCE | TOTAL TRACT ACRES | OUTFALL DITCH | OB' | | TOTAL | REMAINDER LEFT ACRES | REMAINDER RIGHT ACRES | DATE ACQUIRED | TYPE OF INSTRUMENT | OUTFALL DITCH PERMISSION (YES) | SLOPE PERMISSION (YES) | DRAINAGE STRUCTURE PERMISSION (YES) | EROSION CONTROL PERMISSION (YES) | ENTRANCE CONSTRUCTION PERMISSION (YES) | COMMENTS | |
| | SINGLETON DEE S. & SINGLETON JUDY D. | 485-03-00-054 | 0.36 | ACRES | | | | | | | | | | | YES | | SILT FENCE (SEE SHEET 8) | |
| 2 | HAZEL YVONNE & JOSEPH | 485-03-00-301 | 0.19 | | | | | | | | | | | | YES | | SILT FENCE (SEE SHEET 8) | |
| 3 | REINKE JASON LEE | 485-03-00-300 | 0.14 | | | | | | | | | | | | YES | | SILT FENCE (SEE SHEET 8) | |
| 4 | WEAVER ANDREA K | 485-03-00-299 | 0.16 | | | | | | | | | | | | YES | | SILT FENCE (SEE SHEET 8) | |
| 5 | RICHARDSON TORSHA R | 485-03-00-298 | 0.15 | | | | | | | | | | | | | | | |
| 6 | BRISBON ERNEST & CONNIE | 485-03-00-297 | 0.13 | | | | | | | | | | | | | | | |
| | JAMES E. MARTIN & SUSAN M. MARTIN | 485-02-00-094 | 0.59 | | | | | | | | | | | | | | | |
| 8 | HERNANDEZ MIGUEL A | 485-02-00-141 | 0.32 | | | | | | | | | | | | | | | |
| 9 | MARIAN YVONNE MILLS & CANDICE MILLES FORTNER | 485-02-00-140 | 0.31 | | | | | | | | | | | | | | | |
| (1) | ROBERTY J & MARGUERITE M. KING | 485-02-00-139 | 0.33 | | | | | | | | | | | | | | | |
| | FREDERICK A.& SUSAN C.YOHE | 485-02-00-138 | 0.30 | | | | - | | | | | | | | | | | |
| (12) | CORA BRAY | 485-02-00-137 | 0.29 | | | | | | | | | | | | | | | |
| (13) | RONALD C & KATHRYN E.SMOAK | 485-02-00-136 | 0.29 | | | | | | | | | | | | | | | |
| (14) | BARBARA S. WIEDENHOEFT | 485-02-00-135 | 0.29 | | | | | | | | | | | | | | | |
| (15) | MARJORIE V. WILLIAMS, LIFE ESTATE | 485-02-00-134 | 0.31 | | | | | | | | | | | | | | | |
| (6) | MENDEZ ANA L.GARCIA & AIDA L.MARTINEZ | 486-05-00-065 | 0.26 | | | | | | | | | | | | | | | NOTES: |
| | OCHOA PEDRO & JALDIN CARINA B | 486-15-00-066 | 1.20 | | | | | | | | | | | | YES | | SILT FENCE (SEE SHEET 9) | ATOTAL OBTAIN INCLUDES HIGHLAND, MARSH AND OUTFALL DITCHES. |
| (18) | GREEN STACY L | 486-15-00-238 | 0.17 | | | | | | | | | | YES | | YES | | PED RAMP CONSTRUCTION (SEE SHEET 9) | OBTAINS WILL BE SHOWN IN SOUARE FEET AND ACRES. ACRES WILL BE SHOWN IN PARENTHESES UNDER SOUARE FEET.IN |
| (9) | TANIMOTO JAMES T | 486-15-00-229 | 0.14 | | | | | | | | | | | | | | | RURAL AREAS OBTAINS MAY BE SHOWN IN ACRES ONLY. OUTFALL DITCHES WILL BE SHOWN IN ACRES ONLY. |
| 20 | ELLIS CHRISTOPHER CARL | 486-15-00-237 | 0.16 | | | | | | | | | | | | | | | B SHOW REMAINDER IN SOUARE FEET WHEN |
| 21 | HENRY R EDWARDS, JR | 486-05-00-120 | 0.39 | | | | | | | | | | | | | | | LESS THAN 0.25 ACRE. |
| 22 | STUART D LANGSTON | 486-05-00-119 | 0.29 | | | | | | | | | | | | | | | |
| 23 | HARVEY AUSTIN JR & TRISHA L AUSTIN | 486-05-00-104 | 0.28 | | | | | | | | | | | | YES | | SILT FENCE (SEE SHEET II) | |
| 24 | MEREDITH A. THOMAS | 486-05-00-103 | 0.35 | | | | | | | | | | | | | | | |
| 25 | EULA LEE SCOTT | 486-05-00-001 | 10.50 | | | | | | | | | | | | YES | | SILT FENCE (SEE SHEET 10) | |
| 26 | ROBERT W JAMESON | 486-09-00-097 | 0.74 | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | CARO SOFESSION 10-37-16 No. 30116 D. COMMUNICIPALITY D. COMMU | | CONSULTING EN 4390 BELLE OAKS NORTH CHARLE PAX (843 WWW.TRANS | Systems | | REVISI | ONS DATE TRACT NO. REMARKS |





| DESIGN BY: | | | | | | | |
|--------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 3 | s.c. | CHARLESTON | P306150018 | ALL | 4 | 65 |
| | | | | | | | |





| PUT-11-00.00 | , Tran Systems | FED. ROAD DIV. NO. 3 | STATE S.C. | COUNTY | PROJECT NO. ROAD/ROUTE NO. P306150018 DEERWOOD | SHEET TOTAL NO. SHEETS 4A 65 |
|---|-----------------------|----------------------------|---------------|----------|--|------------------------------------|
| D3 SIDEWALK IMPROVEMTINS CHARLESTON COUNTY, S.C. DESCRIPTION OF REVISION SOUAD | | Ŋ | | NØ _ | | |
| CHARLESTON COUNTY, S.C. | 12 | P07=9- | - 00.00 | | | |
| CHARLESTON COUNTY, S.C. | | | | | | |
| SQUAD - | | | D3 CI | HARLESTO | N COUNTY, S. | NS C. |
| NTE. NO. DEENIOOD DRIVE | | RTE./R | DDE | | | |

DESIGN BY

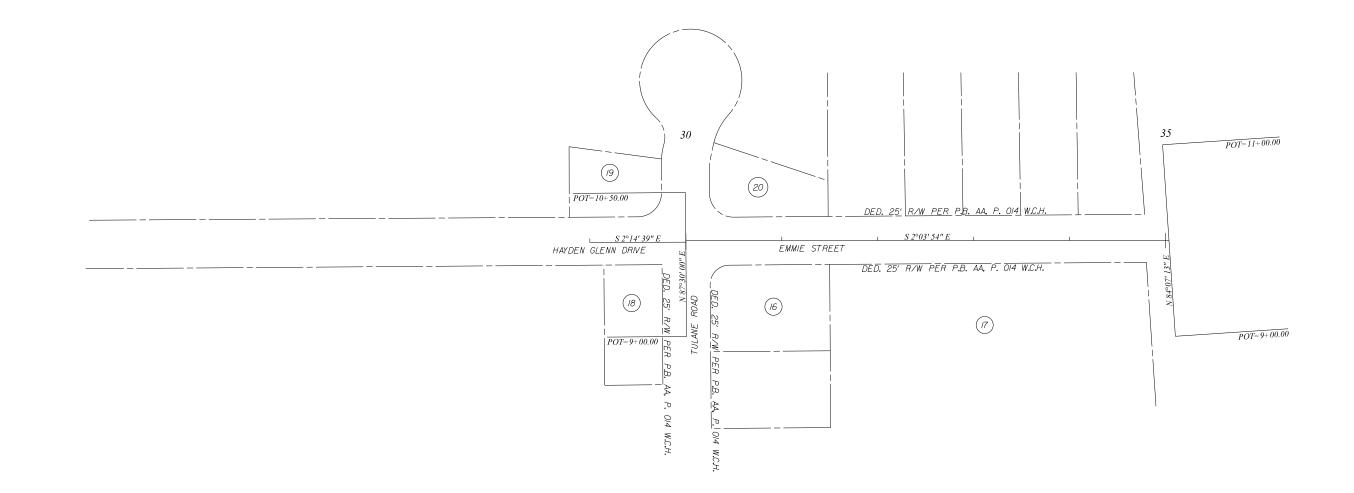


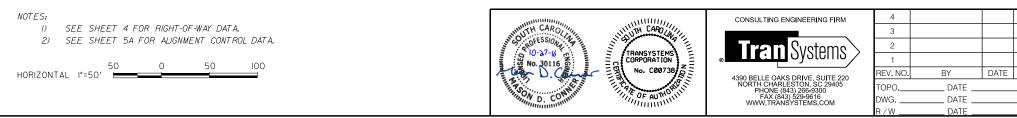
NOTES: 4 CONSULTING ENGINEERING FIRM TH CAROL SEE SHEET 4 FOR RIGHT-OF-WAY DATA.
 SEE SHEET 5A FOR ALIGNMENT CONTROL DATA. 3 2 **Lifein** Systems TRANSYSTEMS CORPORATION No. C00738 1 HORIZONTAL I"=50' 0 50 100 4390 BELLE OAKS DRIVE, SUITE 220 NORTH CHARLESTON, SC 29405 PHONE (843) 266-9300 FAX (843) 2629-9616 WWW.TRANSYSTEMS.COM DATE REV. NO. ΒY OPO._ _ DATE _ _ DATE . _ DATE . OF ALL DWG. / \M

| DESIGN BT | | | | | | | |
|---------------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 3 | s.c. | CHARLESTON | P306150018 | LAKE MOULTRIE | 4B | 65 |
| | | | | | | | |



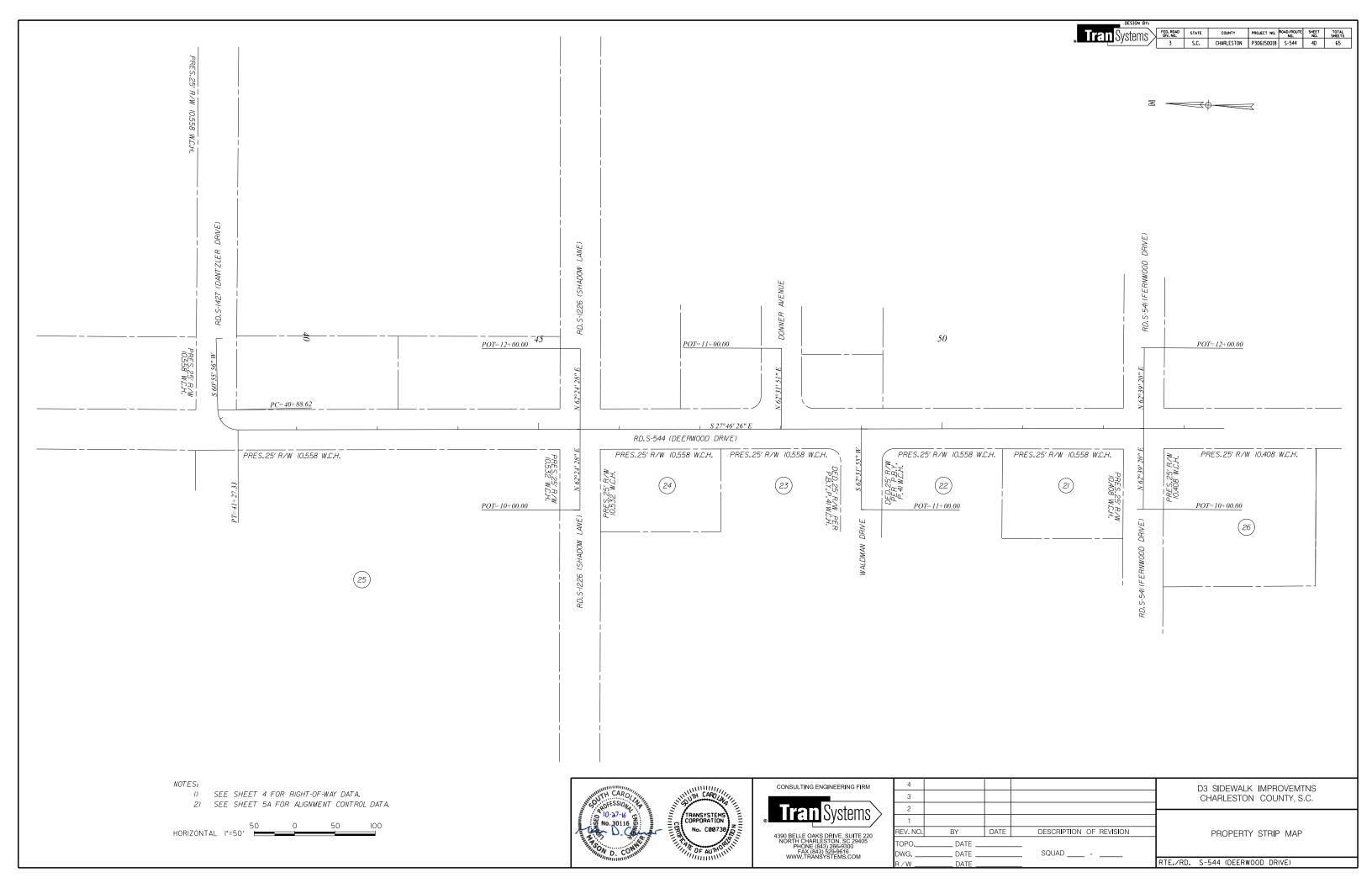
| | D3 SIDEWALK IMPROVEMTNS CHARLESTON COUNTY, S.C. |
|-------------------------|--|
| DESCRIPTION OF REVISION | - PROPERTY STRIP MAP |
| SQUAD - | |
| | RTE./RD. LAKE MOULTRIE DRIVE |





| DESIGN BY: | | | | | | | |
|-----------------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems > | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 3 | s.c. | CHARLESTON | P306150018 | EMMIE | 4C | 65 |
| | | | | | | | |

| | D3 SIDEWALK IMPROVEMTNS CHARLESTON COUNTY, S.C. |
|-------------------------|--|
| DESCRIPTION OF REVISION | |
| | PROPERTY STRIP MAP |
| | RTE./RD. EMMIE STREET |



GENERAL NOTES

- 1. IN PERFORMING THE WORK UNDER THIS PROJECT, THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH ALL FEDERAL, STATE AND LOCAL STATUTES, ORDINANCES AND DIRECTIVES WITH RESPECT TO THE ELIMINATION OF EXCESSIVE NOISE AND POLLUTION OF AIR AND WATER DUE TO THEIR CONSTRUCTION EQUIPMENT AND OTHER OPERATIONS. ATTENTION SHALL BE GIVEN TO REDUCE THE NOISE OF HEAVY CONSTRUCTION EQUIPMENT AND TO THE CONTROL OF DUST SMOKE AND FUMES FROM CONSTRUCTION EQUIPMENT AND OTHER OPERATIONS ON THE WORK SITE, AND THE DIRT AND NOISE CREATED BY HEAVY TRUCK OPERATION AREAS AND ADJACENT EXISTING PAVED AREAS. THESE AREAS SHALL BE KEPT FREE FROM DEBRIS AT ALL TIMES. THE DISCHARGE OF OILY, GREASY OR CHEMICAL WASTES INTO WATERWAYS AND TRIBUTARY SEWERS WILL NOT BE PERMITTED.
- 2. THIS AGREEMENT IS MADE UP OF SEVERAL PARTS. THE AGREEMENT WITH THE CONTRACTOR WILL HOLD OVER ALL OTHER PARTS OF THE CONSTRUCTION DOCUMENTS, NOT WITHSTANDING PERMITTING REQUIREMENTS AND GOVERNMENTAL AGENCY REGULATIONS. THE PLAN NOTES AND DETAILS WILL HOLD OVER PLAN DRAWING INFORMATION AND THE PLANS WILL HOLD OVER THE PROJECT SPECIFICATIONS AND THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION). OTHER FEDERAL, STATE AND LOCAL REGULATIONS AND REQUIREMENTS ARE TO BE INCORPORATED IN THE CONSTRUCTION, WHEN IN CONFLICT WITH THE PLANS OR SPECIFICATIONS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN.
- 3. THE OWNER REQUIRES THAT ALL CONTRACTORS BE QUALIFIED FOR THE WORK THEY ARE PERFORMING. IT IS PRESUMED THAT CONTRACTORS PERFORMING WORK ARE EXPERIENCED AND KNOWLEDGEABLE ABOUT THE WORK (INCLUDING GOVERNMENTAL REGULATIONS), AND THAT QUALITY PRODUCTS, APPROPRIATE FOR THE APPLICATION, WILL BE USED AND THAT ALL WORK WILL BE INSTALLED IN A PROFESSIONAL WORKMANLIKE MANNER. THE PLANS SHOW LOCATIONS, RELATIONSHIPS, MAGNITUDE AND GENERAL SPECIFICATIONS OF THE WORK REQUIRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL COMPONENTS INSTALLED FUNCTION PROPERLY AND THAT ALL HARDWARE, FITTINGS, CABLING, CONNECTIONS, SUPPLY LINES, ETC. ARE SUPPLIED AND PROPERLY FITTED, WHETHER DETAILED ON THE PLANS OR NOT. THE CONTRACTOR SHALL ASSURE THAT ALL COMPONENTS AND WORK ARE INSTALLED, COMPLETE IN PLACE, AND OPERATIONAL TO THE SATISFACTION OF THE CITY OF NORTH CHARLESTON.
- 4. ALL WORKERS AND VISITORS TO THE SITE SHALL BE REQUIRED TO BE SAFETY TRAINED IN ACCORDANCE WITH OSHA REGULATIONS. THE ONLY EXCEPTIONS SHALL BE MATERIAL DELIVERY, TRUCK DRIVERS, BUT ONLY WHEN THEY ARE DIRECTED IN AND OUT OF THE SITE BY A TRAINED WORKER.
- 5. THE CONTRACTOR SHALL PROVIDE FULL TIME SUPERVISION OF ITS WORK WITH EXPERIENCED PERSONNEL. EACH CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS AND SAFETY OF ITS CONSTRUCTION OPERATIONS.
- 6. THE CONTRACTOR SHALL SWEEP AND WASH DOWN ALL HAUL ROUTES OVER CITY/STATE/COUNTY ROADS TO/FROM THE CONSTRUCTION AREA, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY PERMITS REQUIRED FOR THE WORK. THE CONTRACTOR SHALL PROVIDE WHATEVER MEANS NECESSARY TO ALLEVIATE OR PREVENT DUST NUISANCE AT ALL TIMES. A SWEEPER SHALL BE PROVIDED AS NECESSARY TO KEEP STREETS CLEAN. THE COST OF THIS ITEM IS INCIDENTAL TO THE PROJECT.
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL INSPECT THE SITE OF THE PROJECT AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS, TRAFFIC, OTHER ITEMS THAT AFFECT THE CONTRACT AND THE DETAILED REQUIREMENTS OF CONSTRUCTION.
- 9. ALL CATCH BASINS, MANHOLES, POLLUTION CONTROL BASINS, AND SIMILAR STRUCTURES NEWLY CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS OR ANY FOREIGN MATTER OF ANY KIND AND SHALL BE FREE OF SUCH ACCUMULATION AT THE TIME OF FINAL INSPECTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.
- 10. LOCATION OF CONSTRUCTION STAGING AREA IS THE REPONSIBILITY OF THE CONTRACTOR.
- 11. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT WORK AREAS FROM A LOCATION DESIGNATED BY THE OWNER OR AS SHOWN ON THE PLANS.
- 12. "CONTRACTOR" SHALL MEAN THE CONTRACTOR BIDDING SPECIFIC TRADE WORK.
- 13. "OWNER" SHALL MEAN THE CITY OF NORTH CHARLESTON.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, COMPLIANCE WITH OSHA REQUIREMENTS, REQUIREMENTS OF THE LOCAL MUNICIPALITY, AND ALL NECESSARY PERMITS.

GEOMETRIC CONTROL AND EXISTING CONDITIONS

1. EXISTING CONDITIONS WERE TAKEN FROM GROUND AND/OR AERIAL SURVEYS. INFORMATION SHOWN CONCERNING FEATURES AND UTILITIES ARE NOT GUARANTEED ALL INCLUSIVE OR CORRECT. THE LOCATION, MATERIAL AND DIMENSIONS OF EXISTING FACILITIES AND OBSTRUCTIONS ARE BASED UPON AVAILABLE RECORDS AND ARE SHOWN ON THE PLANS STRICTLY AS AN AID TO THE CONTRACTOR, BUT MUST NOT BE CONSTRUED AS BEING ACCURATE, CORRECT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH AND FAMILIARIZE THEMSELVES WITH ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT.

SITE ACCESS AND MAINTENANCE OF EXISTING ROADWAYS

1. THE CONTRACTOR MUST SUBMIT TO THE OWNER AND THE APPROPRIATE LOCAL AGENCIES A PLAN THAT SHOWS THE PROPOSED HAUL ROUTES FOR THE CONSTRUCTION OF THE ROADWAY, AND OBTAIN ANY NECESSARY APPROVALS OR PERMITS FROM THE LOCAL ENTITY WITH JURISDICTION OVER THE ROADS PROPOSED TO BE USED. AT ALL TIMES THE CONTRACTOR SHALL RESPECT POSTED LOAD LIMITS AND SPEED LIMITS OF ALL PUBLIC ROADWAYS.

PROOF ROLL NOTE FOR PLANS

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF NORTH CHARLESTON PUBLIC WORKS DEPARTMENT (843-460-1558) PRIOR TO CONSTRUCTION FOR REQUIRED INSPECTION OF ROADWAY, CURB AND GUTTER, AND STORM DRAINAGE. SUBGRADE AND BASE COURSE SHALL BE PROOF-ROLLED WITH A FULLY LOADED TANDEM DUMP TRUCK IN THE PRESENCE OF PUBLIC WORKS ENGINEERING INSPECTORS. ALL AREAS DETERMINED TO BE UNSUITABLE FOLLOWING INSPECTION SHALL BE EXCAVATED AND RE-COMPACTED WITH SUITABLE MATERIAL TO THE DESIGN ELEVATIONS SHOWN ON THE APPROVED PLANS. INSTALLATION OF THE APPROVED DRAINAGE SYSTEM SHALL BE INSPECTED BY PUBLIC WORKS PERSONNEL. A FINAL INSPECTION SHALL OCCUR PRIOR TO ACCEPTANCE OF THE ROADWAY BY THE CITY.

AS-BUILT NOTE FOR PLANS: NO POND

1. THE ENGINEER/OWNER SHALL PROVIDE THE CITY OF NORTH CHARLESTON WITH AN AS-BUILT SURVEY OF THE PROJECT AREA (TIED TO THE STATE PLANE COORDINATE SYSTEM), TO INCLUDE ALL STORM DRAINAGE LINES, BOTH EXISTING AND NEWLY INSTALLED. SURVEY SHALL ALSO INCLUDE THE PIPE SIZE, MATERIAL, AND INVERT ELEVATIONS, IN COMPLIANCE WITH THE CITY OF NORTH CHARLESTON STORMWATER DESIGN MANUAL AND NPDES PERMIT.

GENERAL UTILITIES AND STORM DRAINAGE NOTES

- 1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO START OF WORK.
- 2. THE CONTRACTOR SHALL GIVE A 3-WORKING DAYS NOTICE TO PALMETTO UTILITIES PROTECTION SERVICE (PUPS) BY CALLING 811. 3-WORKING DAYS NOTICE SHALL ALSO BE GIVEN TO THE OWNERS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE.
- 3. ALL UNSUITABLE MATERIALS RESULTING FROM DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE SITE IN A PROPER MANNER. STOCKPILING OF THESE MATERIALS MAY BE ALLOWED ON THE PROPERTY OR WITHIN THE PROJECT AREA. IN THE EVENT THAT UNEXPECTED REGULATED SUBSTANCES ARE ENCOUNTERED DURING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, ORDINANCES AND DIRECTIVES WITH RESPECT TO HANDLING AND DISPOSAL OF SUCH SUBSTANCES.
- 4. ALL EXISTING UTILITIES SHALL REMAIN IN CONTINUOUS OPERATION DURING THE EXECUTION OF THE WORK, UNLESS OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR SHALL CONTACT THE OWNERS OF ALL UTILITIES PRIOR TO THE START OF THE WORK SO THAT THE OWNERS MAY LOCATE AND STAKE THEIR UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNER'S REPRESENTATIVE, IN WRITING, 48 HOURS PRIOR TO UTILITY OWNER LOCATING THE UTILITY.
- 5. ALL UTILITIES TO BE ABANDONED SHALL BE APPROVED BY THE UTILITY OWNER'S REPRESENTATIVE PRIOR TO ABANDONING. ALL OPENINGS ON ABANDONED PIPE OR CONDUIT ARE TO BE SEALED WITH A GROUT PLUG, MINIMUM 1 FOOT THICK, UNLESS UNDER FUTURE ROADWAY. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- 6. ALL EXCAVATION NEAR EXISTING CABLES OR OTHER EXISTING UTILITY LINES SHALL BE PERFORMED BY HAND. ANY CABLE OR OTHER EXISTING UTILITY LINE THAT IS DAMAGED DURING THE PERFORMANCE OF THIS CONTRACT SHALL BE REPARED IMMEDIATELY, UNDER THE UTILITY OWNER'S DIRECTION AND AT THE CONTRACTOR'S EXPENSE. DURING THE PERIOD OF TIME THAT THE ABOVE TYPES OF CABLES OR UTILITIES ARE OUT OF SERVICE, DUE TO THE CONTRACTOR'S OPERATIONS, ALL CONTRACT WORK SHALL BE SUSPENDED UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR WILL NOT BE ALLOWED TO MAKE CLAIMS FOR EXTRA COSTS OR TIME EXTENSIONS DUE TO SUCH STOPPAGES OF WORK.
- 7. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP AND CONSTRUCTION DRAWINGS, CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF SOUTH CAROLINA, TO THE OWNER WHICH CLEARLY AND ACCURATELY DEPICT THE METHODS AND MEANS BY WHICH THE CONTRACTOR INTENDS TO PROTECT, SHORE, SUPPORT, BRACE, ETC., EXISTING UTILITIES WHEN THE WORK AFFECTS A CABLE, STORM SEWER OR OTHER UTILITY WITHIN THE CONTRACT LIMIT LINES. THIS PROCESS IS ALSO APPLICABLE FOR THE INSTALLATION OF NEW STORM SEWERS AND UTILITIES WITHIN THE CONTRACT LIMIT LINES THAT REQUIRE SHORING AND BRACING.
- 8. EXISTING CONDITIONS WERE TAKEN FROM AVAILABLE MAPPING/DRAWING. INFORMATION SHOWN CONCERNING FEATURES AND UTILITIES IS NOT GUARANTEED, ALL INCLUSIVE OR CORRECT. THE CONTRACTOR SHALL VERIFY THE FEATURES PRIOR TO CONSTRUCTION. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE AT ALL TIMES, UNLESS NOTED OTHERWISE ON THE PLANS. THE LOCATION, MATERIAL AND DIMENSIONS OF EXISTING FACILITIES AND OBSTRUCTIONS ARE BASED UPON AVAILABLE RECORDS AND ARE SHOWN ON THE PLANS STRICTLY AS AN AID TO THE CONTRACTOR, BUT MUST NOT BE CONSTRUED AS BEING ACCURATE, CORRECT OR COMPLETE. ALL STRUCTURES ABOVE OR BELOW GROUND THAT ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROPERLY SUPPORTED AND MAINTAINED. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH THE UTILTY OWNER'S REPRESENTATIVE FOR THE PROTECTION, RELOCATION, THE CONTRACTOR SHALL MAKE REPAIRS OR PAY FOR REPAIRS TO THE STRUCTURE TO THE SATISFACTION OF THE UTILITY OWNER AND AT THE EXPENSE OF THE CONTRACTOR.
- 9. MOVING UTILITIES SHALL BE THE RESPONSIBILITY OF THE UTILITY OWNERS UNLESS OTHERWISE NOTED ON THE PLANS, IN THE GENERAL NOTES AND IN THE SPECIFICATIONS. THE CONTRACTOR IS TO NOTIFY THE UTILITY OWNER SUFFICIENTLY IN ADVANCE OF THE SCHEDULE FOR SUCH REMOVALS AND RELOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREMIUM COSTS WHICH BECOME NECESSARY AS A RESULT OF THE CONTRACTOR'S FAILURE TO NOTIFY THE UTILITY OWNER. ALL OTHER UTILITIES NOTED ON THE PLANS TO BE RELOCATED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10. ALL ITEMS PROPOSED FOR ABANDONMENT, RELOCATION OR DEMOLITION SHALL BE MARKED BY THE CONTRACTOR FOR REVIEW BY THE UTILITY OWNER'S AND THE OWNER'S REPRESENTATIVE. NO ITEM SHALL BE ABANDONED, RELOCATED OR DEMOLISHED UNTIL APPROVED BY THE UTILITY OWNER'S REPRESENTATIVE.
- 11. THE CONTRACTOR SHALL NOT START ANY WORK WHICH MAY AFFECT EXISTING WATER, STEAM, SEWER, COMPRESSED AIR, COMMUNICATIONS, POWER, GAS, OR OTHER UTILITY CABLES, PIPELINES OR SEWERS UNTIL THE UTILITY OWNER HAS REVIEWED AND APPROVED THE SHOP DRAWINGS AND PROCEDURES FOR PROTECTION OF THE UTILITY.
- 12. REMOVAL AND REPLACEMENT OF ALL UTILITY STRUCTURES, PIPES, CONDUITS, POWER POLES, LIGHT POLES, FENCES, GATES, GUARDRAIL, VAULTS, JUNCTION BOXES, TREES, SHRUBS AND OR ANY OTHER OBSTRUCTION REQUIRED TO INSTALL THE PROPOSED STORM SEWERS AND/OR UTILITIES AS SHOWN ON THE PLANS SHALL BE INCIDENTAL TO THE CONTRACT UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.
- 13. IN THE EVENT OF THE CONTRACTOR ENCOUNTERING EXISTING SUBSURFACE DRAINAGE AND/OR SANITARY SEWER SYSTEMS THAT WERE NOT SHOWN ON PLANS, THE CONTRACTOR SHALL MAINTAIN AND PRESERVE THESE SUBSURFACE SYSTEMS OR CONNECT THE SYSTEMS TO THE NEAREST SYSTEMS, AS DIRECTED BY THE ENGINEER.
- 14. WHEREVER ANY ABANDONED CONDUITS OR PIPES ARE CUT OR BROKEN BY STORM SEWER CONSTRUCTION, SUITABLE BULKHEADS, AS DETERMINED BY THE OWNER, SHALL BE INSTALLED SO THAT NO LOSS OF BACKFILL MATERIAL SHALL OCCUR. ALL COSTS TO PERFORM SUCH WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- 15. THE CONTRACTOR MUST CONNECT ALL EXISTING LIVE DRAINS TO STORM SEWERS WHETHER SHOWN ON THE PLANS OR NOT.
- 16. THE CONTRACTOR SHALL AT ALL TIMES DURING CONSTRUCTION PROVIDE AND MAINTAIN AMPLE MEANS AND PEVICES FOR THE TEMPORARY DIVERSION OF FLOW IN EXISTING SEWERS AND DRAINS AND THE PROMPT REMOVAL AND PROPER DISPOSAL OF ALL WATER OR SEWAGE ENTERING THE TRENCHES OR OTHER PARTS OF THE WORK, AND SHALL KEEP SAID EXCAVATIONS AS DRY AS PRACTICABLE UNTIL THE STRUCTURES TO BE BUILT THEREIN ARE COMPLETED. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
- 17. THE LOCATIONS AND ELEVATIONS OF EXISTING STORM SEWERS AND STRUCTURES SHOWN ON THE PLANS AND PROFILES HAVE BEEN OBTAINED FROM AERIAL/GROUND SURVEY AND THE INFORMATION IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND PROTECTING ALL STORM SEWERS AND STRUCTURES.
- 18. IN LOCATIONS WHERE EXISTING STORM DRAINAGE FACILITIES ARE TO REMAIN AND ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER. FLOW MUST BE MAINTAINED AT ALL TIMES.



| DESIGN BY: | | | | | | | |
|-----------------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems > | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 3 | s.c. | CHARLESTON | P306150018 | ALL | 5 | 65 |

NEW STORM PIPE NOTES

- ALL NEW STORM PIPES, BEDDING, TRENCHING, STORM BOXES, ETC. IN CITY RIGHTS-OF-WAY AND/OR CITY OWNED AND MAINTAINED DRAINAGE EASEMENTS SHALL BE INSTALLED PER CURRENT SCDOT SPECIFICATIONS, LOCATED ON THE INTERNET AT HTTE-//WWW.SCDOT.ORG/DOING/ROAD_SUPIECHSPEC.ASPX SCDOT STANDARD DETAIL DRAWINGS CAN BE LOCATED AT THE FOLLOWING WEBSITE, HTTE-//WWW.SCDOT.ORG/DOING/ROAD_SUPIECHSPEC.ASPX
- 2. ALL REINFORCED CONCRETE PIPE SHALL, AT A MINIMUM, BE SMOOTH-WALLED, MEETING ASTM C76, CLASS III.
- 3. REINFORCED CONCRETE PIPE INSTALLED UNDER PAVEMENT AND/OR PARALLEL TO THE EDGE OF PAVEMENT IN PUBLIC RIGHTS-OF-WAYS SHALL HAVE O-RING JOINTS IN ACCORDANCE TO ASTM C 443 AND/OR AASHTO M315. THE JOINTS SHALL BE SECURELY WRAPPED WITH FILTER FABRIC 18" IN WIDTH.
- 4. SUBMERGED DRAINAGE SYSTEMS WITH PIPING IN THE PUBLIC RIGHTS-OF-WAY SHALL HAVE O-RING JOINTS IN ACCORDANCE TO ASTM C 443 AND/OR AASHTO M315. THE JOINTS SHALL BE SECURELY WRAPPED WITH FILTER FABRIC 18" IN WIDTH.
- 5. WHERE TONGUE & GROOVE STORM PIPE IS ALLOWED, REINFORCED CONCRETE PIPE SHALL BE PER ASTM C 76, CLASS III, JOINTS SHALL BE SEALED WITH RAMNECK OR EQUIVALENT PER AASHTO M198. THE JOINTS SHALL BE SECURELY WRAPPED WITH FILTER FABRIC 18" IN WIDTH.
- 6. ALL NEW STORM DRAINAGE LINES SHALL BE LAID UPGRADE AFTER CONFIRMATION OF EXISTING INVERT ELEVATION.

TRAFFIC CONTROL NOTES

- THE CONTRACTOR SHALL SUBMIT, PRIOR TO CONSTRUCTION ACTIVITIES, TO THE CITY OF NORTH CHARLESTON PUBLIC WORKS DEPARTMENT A WRITTEN PLAN SHOWING, AT A MINIMUM, THE PROPOSED METHOD OF SIGNING, BARRICADING FOR TRAFFIC CONTROL, AND SAFETY FOR STREET DETOURS AND PROPOSED TEMPORARY LANE CLOSURES.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE TRAFFIC AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
- BARRICADES, WARNING SIGNS, FLAGMEN, AND DETOURS, AS NECESSARY, SHALL BE PROVIDED BY AND AT THE EXPENSE OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE WORK SHALL BE PLANNED AND IMPLIMENTED, SO THAT THERE WILL BE THE LEAST POSSIBLE INCONVENIENCE TO THE MOTERING PUBLIC.

| | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
|-------------------------|---|
| DESCRIPTION OF REVISION | GENERAL CONSTRUCTION NOTES |
| SQUAD | RTE./RD. ALL ROADS |

EXISTING MAINLINE HORIZONTAL ALIGNMENTS

BEGINNING CHAIN M1 DESCRIPTION

DESCRIPTION: EXISTING DEERWOOD DRIVE ALIGNMENT

| ======= | | | |
|---------|---------------|--------------|----------------|
| P.C. | STA. 9+50.00 | N 411,175.03 | E 2,287,575.69 |
| P.I. | STA. 10+28.00 | N 411,107.09 | E 2,287,614.09 |
| P.T. | STA. 11+06.00 | N 411,036.02 | E 2,287,646.34 |
| P.C. | STA. 14+98.00 | N 410,678.74 | E 2,287,808.43 |
| P.I. | STA. 17+79.00 | N 410,423.31 | E 2,287,924.31 |
| P.T. | STA. 20+48.00 | N 410,250.28 | E 2,288,145.07 |

ENDING CHAIN M1 DESCRIPTION

BEGINNING CHAIN M2 DESCRIPTION

DESCRIPTION: EXISTING LAKE MOULTRIE DRIVE ALIGNMENT

| ======= | ======================================= | ======================================= | ======================================= |
|---------|---|---|---|
| P.O.T. | STA. 20+00.00 | N 412,037.28 | E 2,289,057.74 |
| P.C. | STA. 21+87.00 | N 411,851.81 | E 2,289,079.48 |
| P.I. | STA 23+33.00 | N 411,706.87 | E 2,289,096.47 |
| P.T. | STA 24+67.00 | N 411,606.92 | E 2,289,202.80 |
| P.O.T. | STA. 26+09.00 | N 411,509.48 | E 2,289,306.46 |

ENDING CHAIN M2 DESCRIPTION

BEGINNING CHAIN M3 DESCRIPTION

DESCRIPTION: EXISTING EMMIE STREET ALIGNMENT

| P.O.T. | STA. 29+00.00 | N 413,452.13 | E 2,290,353.48 |
|----------|---------------|--------------|----------------|
| P.O.T. | STA. 30+00.00 | N 413,352.20 | E 2,290,357.40 |
| P.O.T. | STA. 30+00.00 | N 413,352.28 | E 2,290,359.11 |
| P.O.T. | STA. 35+03.00 | N 412,849.25 | E 2,290,377.25 |
| ======== | | | |

ENDING CHAIN M3 DESCRIPTION

BEGINNING CHAIN M4 DESCRIPTION

DESCRIPTION: EXISTING RD. S-544 (DEERWOOD DRIVE) ALIGNMENT

BEGIN: RD. S-1427 (DANTZLER DRIVE)

END: RD. S-541 (FERNWOOD DRIVE)

| ======= | ======================================= | | |
|---------|---|--------------|----------------|
| P.O.T. | STA. 40+00.00 | N 416,403.78 | E 2,285,864.94 |
| P.C. | STA 40+88.62 | N 416,360.73 | E 2,285,787.48 |
| P.I. | STA 41+13.07 | N 416,348.85 | E 2,285,766.11 |
| P.T. | STA. 41+27.33 | N 416,327.23 | E 2,285,777.50 |
| P.O.T. | STA 53+49.61 | N 415,245.76 | E 2,286,347.06 |

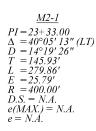
ENDING CHAIN M4 DESCRIPTION

EXISTING CURVE DATA

EXISTING CURVE DATA - M1 (DEERWOOD DRIVE)

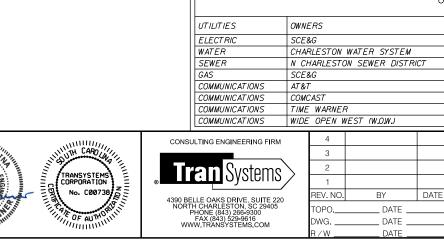
| <u>M1-1</u> | <u>M1-2</u> |
|-------------------------------------|--------------------------------------|
| PI = 10 + 28.00 | PI = 17 + 79.00 |
| $\Delta = 5^{\circ}04' 30'' (RT)$ | $\Delta = 27^{\circ}30' 26'' (LT)$ |
| $D = 3^{\circ}15'12''$ | $D = 5^{\circ}00' 00''$ |
| T = 78.05' | T = 280.49' |
| L = 155.99' | L = 550.16' |
| E = 1.73' | E = 33.83' |
| R = 1,761.10' | R = 1,145.94' |
| D.S. = N.A. | D.S. = N.A. |
| e(MAX.) = N.A. | e(MAX.) = N.A. |
| e = N.A. | e = N.A. |

EXISTING CURVE DATA - M2 (LAKE MOULTRIE DRIVE)



EXISTING CURVE DATA - M4 RD. S-544 (DEERWOOD DRIVE)

| <u>M4-1</u> |
|---|
| P.I. = 41 + 13.07 |
| $\Delta = 88^{\circ}42' 22'' (LT)$ $D = 229^{\circ}10' 59''$ |
| |
| T = 24.44' |
| L = 38.71' |
| E = 9.96' |
| R = 25.00' |
| D.S. = N.A. |
| eMAX = N.A. |
| e = N.A. |



| DESIGN BY: | | | | | | | |
|---------------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| • Oyotomo | 3 | s.c. | CHARLESTON | P306150018 | ALL | 5A | 65 |
| | | | | | | | |

SURVEY DATA

SURVEY 1 - ROADWAYS M1, M2, & M3

PROJECT SURVEY CONTROL AND DATUM INFORMATION PROVIDED BY

CHE SURVEYING, PLLC 3251 LANDMARK DRIVE, SUITE 142 NORTH CHARLESTON, SC 29418 843-576-2520 WWW.CH-ENGR.COM

RICHARD L. WOOTEN, JR., PLS SURVEY MANAGER

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE NAD83 (2011) SOUTH CAROLINA STATE PLANE COORDINATE FOR THE PRIMARY SURVEY CONTROL POINT NUMBER 1 WITH A NORTHING OF 410,543.940 AND AN EASTING OF 2,288,497.120. THE COMBINED SCALE FACTOR (GRID TO GROUND) IS 0.9998737659. ELEVATIONS FOR THIS PROJECT ARE BASED ON NAVD88 VALUES FOR PROJECT BENCH MARK NUMBER 1 (USGS NORTHWOODS OR PID DM3296) WITH AN ELEVATION OF 31.516'.

SURVEY 2 - ROADWAY M4

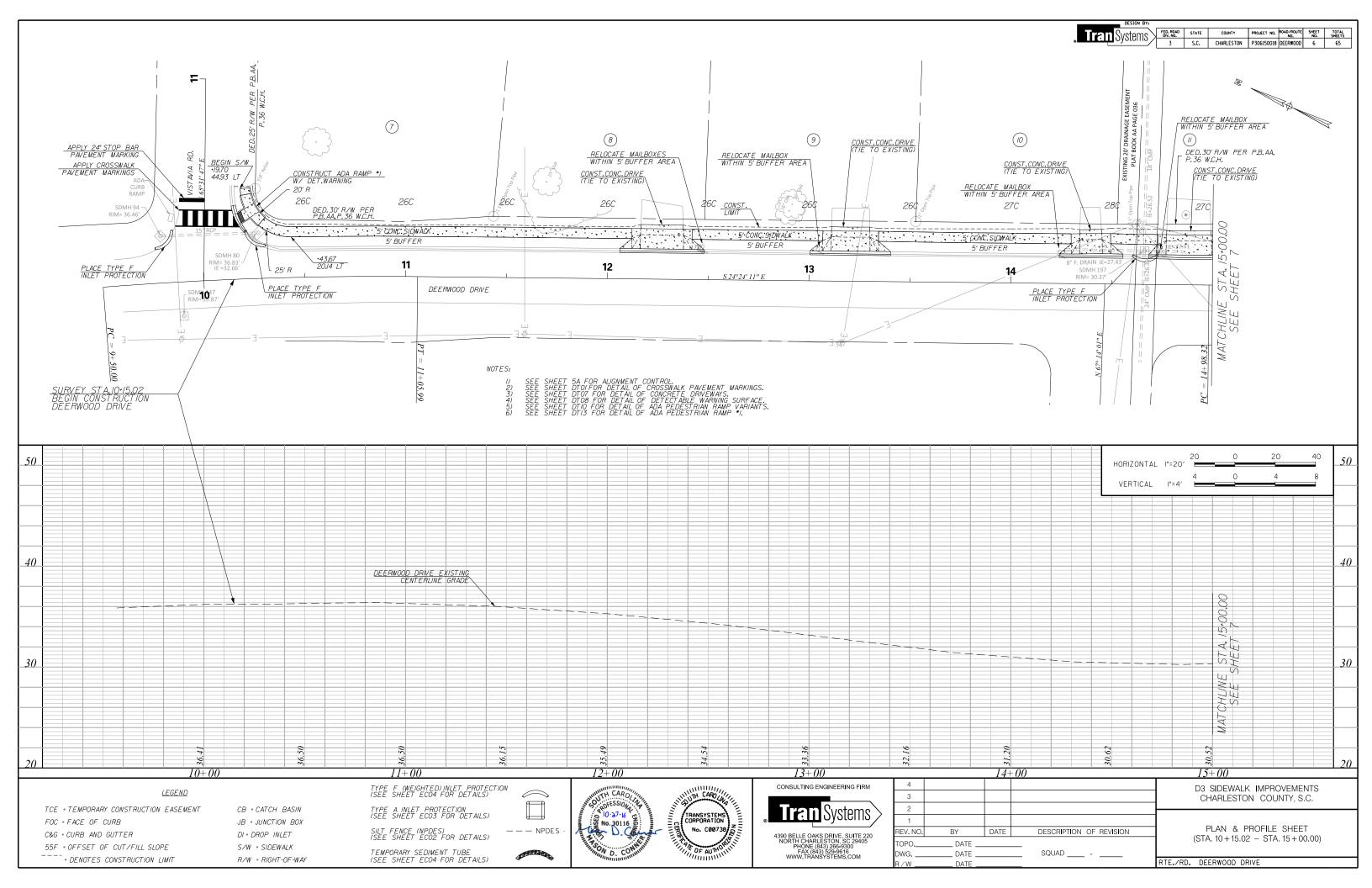
PROJECT SURVEY CONTROL AND DATUM INFORMATION PROVIDED BY

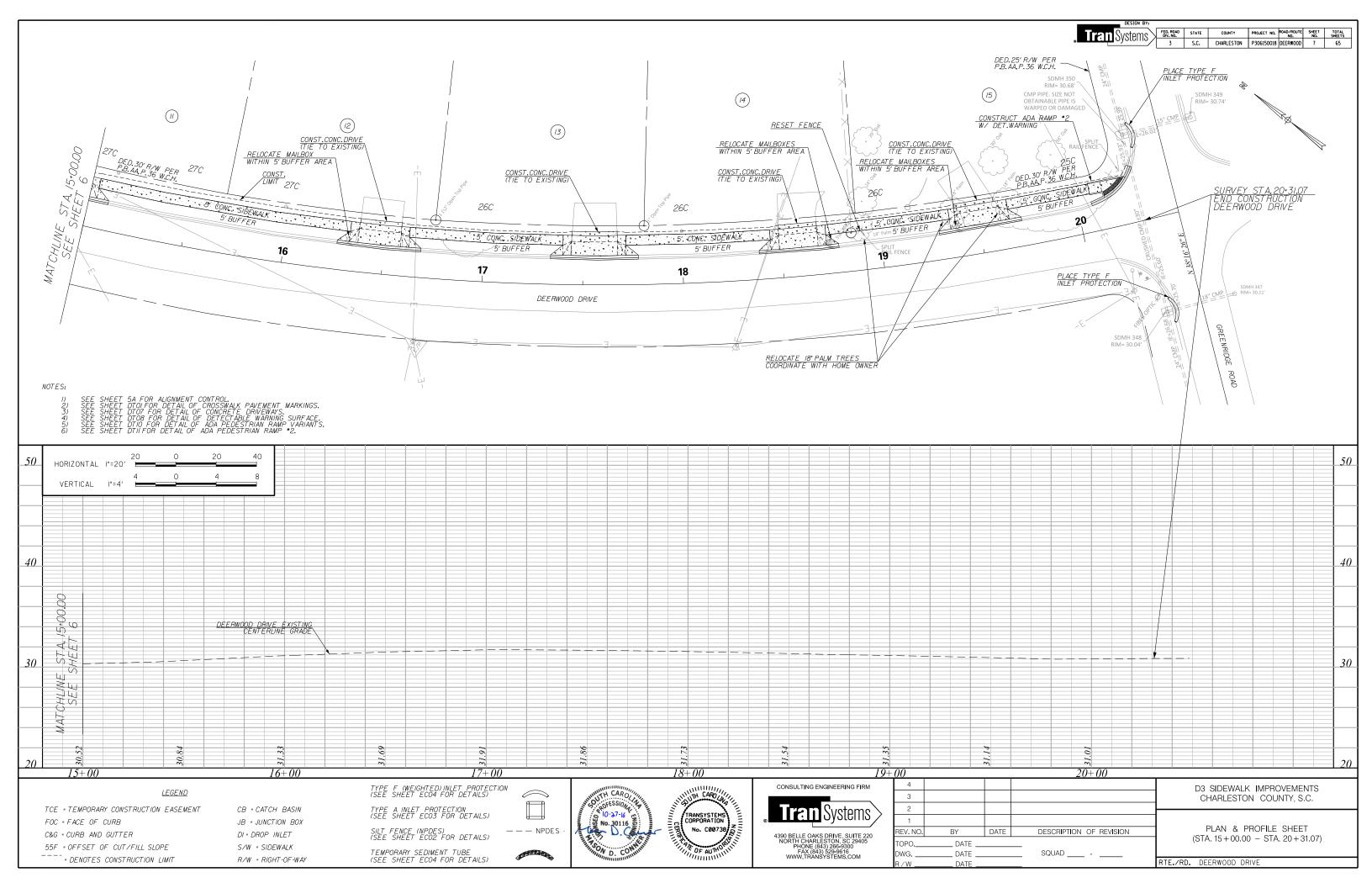
CHE SURVEYING, PLLC 3251 LANDMARK DRIVE, SUITE 142 NORTH CHARLESTON, SC 29418 843-576-2520 WWW.CH-ENGR.COM

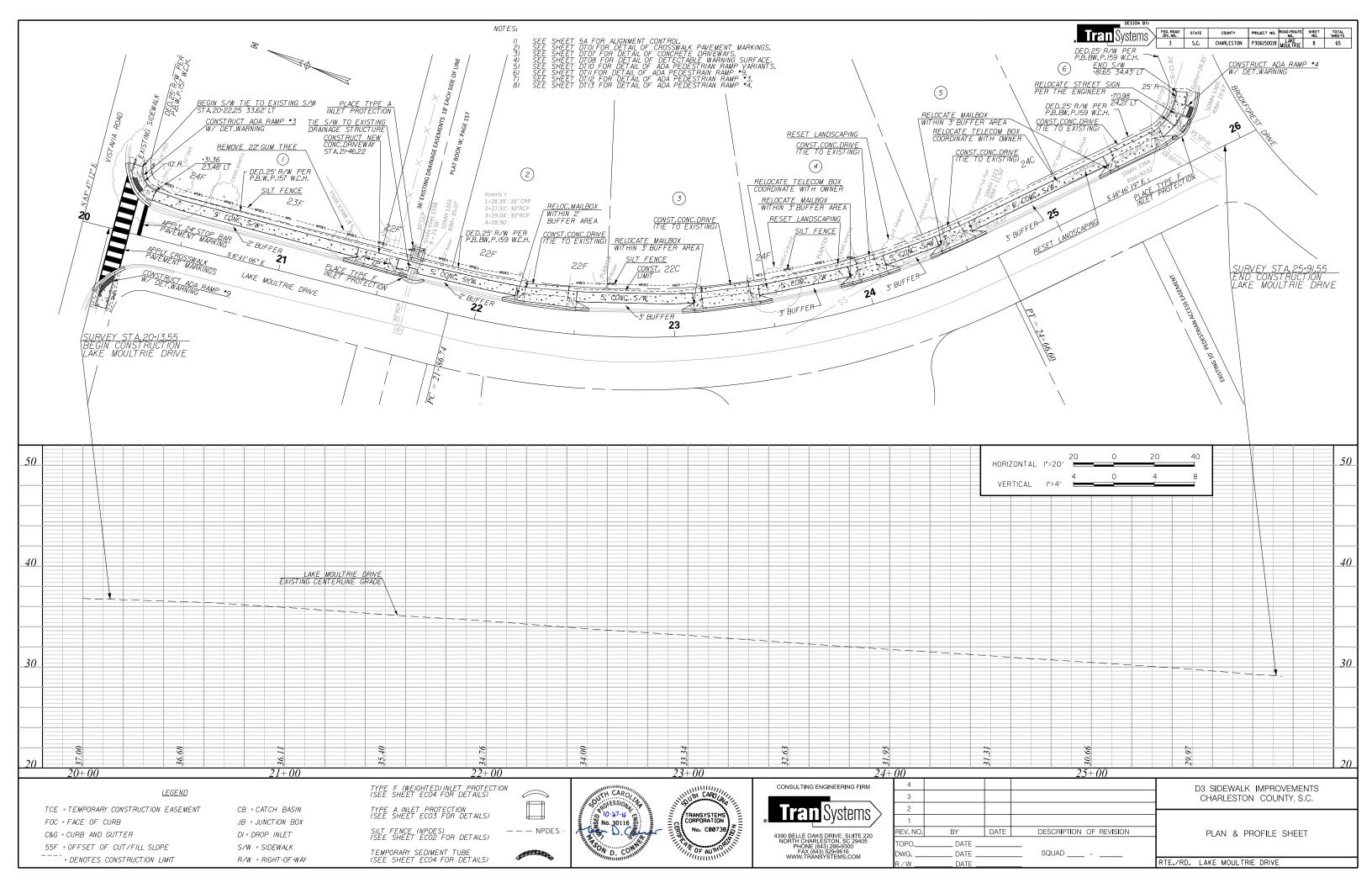
RICHARD L. WOOTEN, JR., PLS SURVEY MANAGER

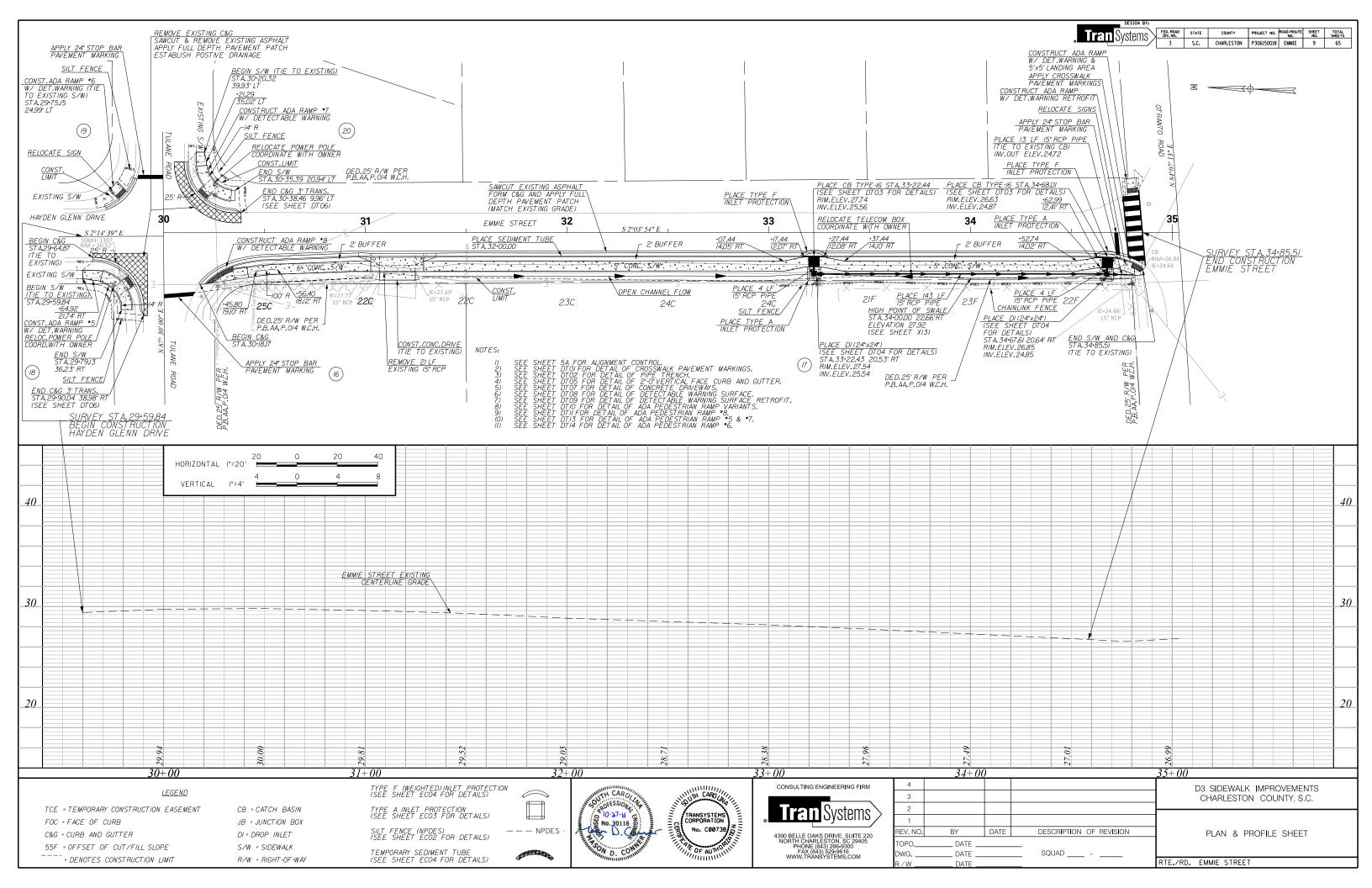
UTILITY OWNER INFORMATION

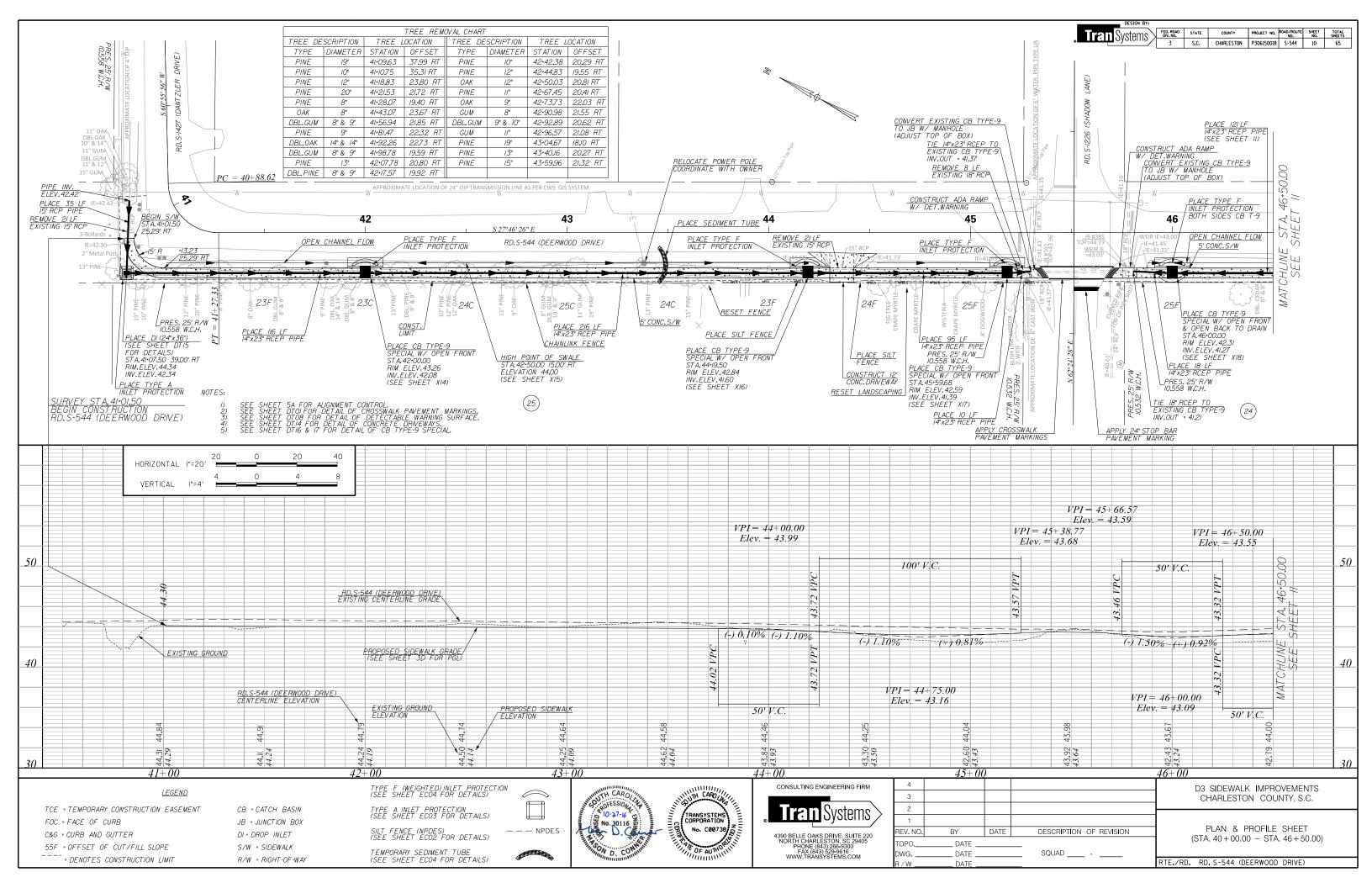
| FIELD CONTACTS | PHONE NO. | DAMAGE CONTACTS | PHONE NO. | | | | |
|------------------|--------------|-------------------------|--------------|--|--|--|--|
| KRISTIE VETTER | 843.576.8231 | SCE&G EMERGENCY | 888.333.4465 | | | | |
| DAVID FICKENS | 843.308.8251 | CWS DISPATCH | 843.727.6800 | | | | |
| CAPITAL PROJECTS | 843.764.3072 | CAPTIAL PROJECTS | 843.764.3072 | | | | |
| ELWOOD STITH | 843.576.8023 | SCE&G EMERGENCY | 800.8/5.0083 | | | | |
| KAYE JEFFERSON | 843.722.7977 | AT&T DAMAGE | 877.737.2478 | | | | |
| RICK HOCHREITER | 843.266.3/56 | RICK HOCHREITER | 843.266.3/56 | | | | |
| ANGELA HUYCK | 843.536.7203 | DOUG JONES | 843.251.5094 | | | | |
| DARRYL CALDWELL | 843.225.3892 | DARRYL CALDWELL | 843.225.3892 | | | | |
| | | WALK IMPRO ESTON COU | | | | | |
| | | - | | | | | |
| DESCRIPTION OF R | EVISION | REFERENCE DATA SHEET | | | | | |
| SQUAD | | | | | | | |
| | | RTE./RD. ALL ROA | ADS | | | | |

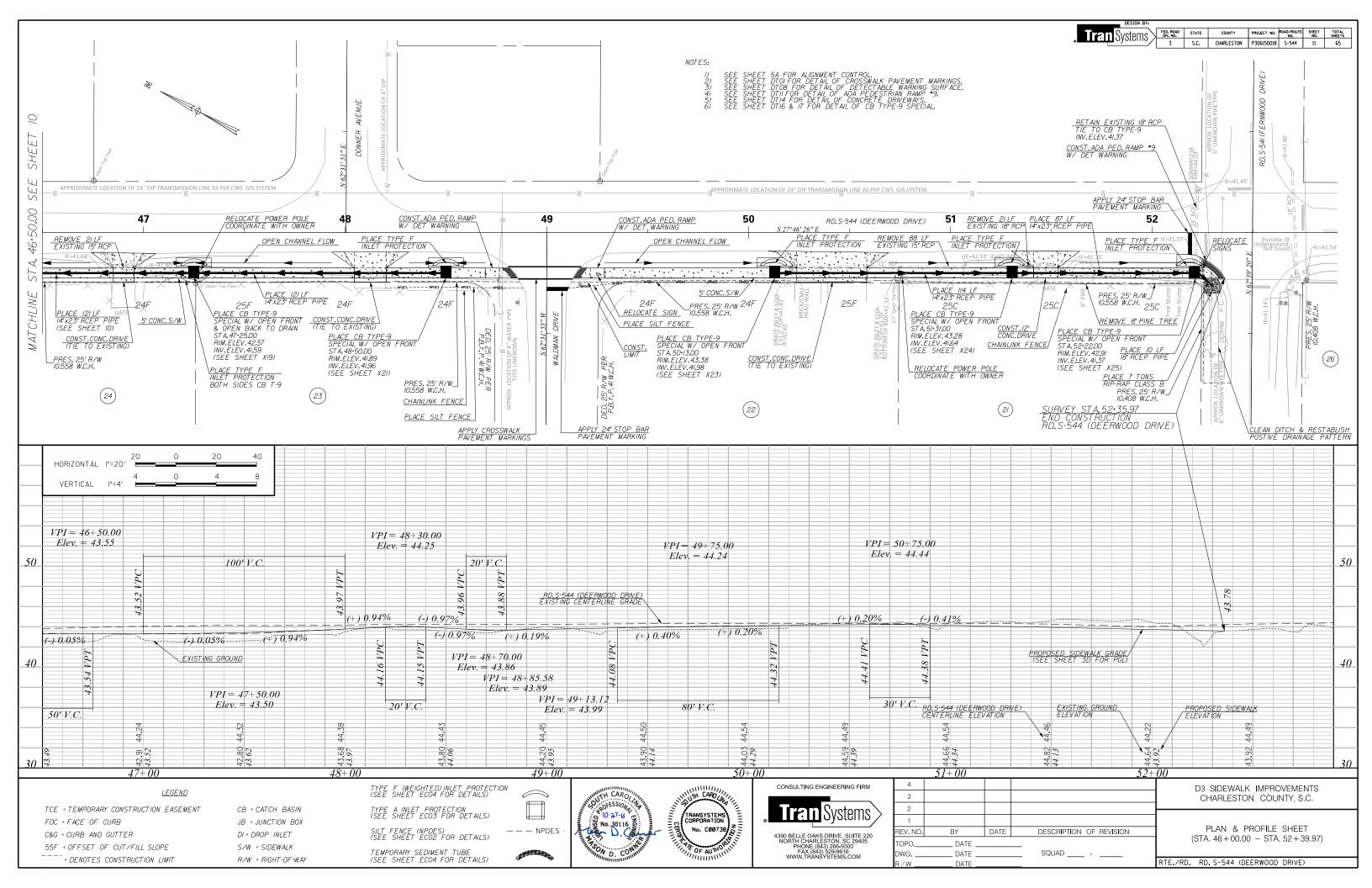












EROSION CONTROL NOTES:

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDRO SEEDING, IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE. 1.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS 2.

 - BROUND CUMULTIONS STABILIZATION MEASURES MOST DE MILTINE DE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INSTALLED INAPPROPRIATELY INCORRECTLY OR HAS FAILED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION. 3.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE. 4.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED. 5.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL REMOVE MUD/SOIL DAILY FROM PAVEMENT, AS MAY BE REQUIRED. 6.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72–300 ET SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS. 9.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES. 10.
- A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS. 12.
- 1.3. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE; 14.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.). 15.
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
 FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. 17.
- IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE. 19.

GRASSING NOTES:

- 1. GRASSING, BY HYDROSEEDING, SHALL BEGIN AS SOON AS FINE GRADING IS FINISHED.
- GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT CONTROL MEASURES (IMPLEMENTING AND MAINTENANCE). GRADING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS.
- ALL AREAS WILL BE GRASSED EXCEPT FOR AREAS THAT RECEIVE STRUCTURES, PAVING OR STONE. GRASSING SHALL INCLUDE FINE GRADING, PREPARING THE SOIL WITH GROUND LIMESTONE AND FERTILIZER, SEEDING, MULCHING, WATERING, AND MAINTAINING, UNTIL ACCEPTANCE.
- UNLESS A SOIL TEST INDICATES DIFFERENT REQUIREMENTS, LIME AND FERTILIZER WILL BE APPLIED AT RATES EQUAL OR EXCEED THOSE LISTED BELOW WHEN PLANTING GRASSES AND LEGUMES.
- 5. AGRICULTURAL LIMESTONE SHOULD BE SPREAD AT A RATE OF 1.5 TONS PER ACRE (70 LBS PER 1,000 SQ. FT.) OR THE EQUIVALENT.
- FERTILIZERS (10-10-10 OR EQUIVALENT) SHOULD BE INCORPORATED (BY DISCING AND HARROWING) PRIOR TO PLANTING AND SHOULD BE SPREAD AT A RATE OF 1,000 LBS PER ACRE (23 LBS PER 1,000 SQ. FT.).
- 7. WHEN FEASIBLE WITHIN THE CONSTRUCTION PHASE, TOPSOIL WILL BE PLACED IN AREAS TO BE VEGETATED. THE GRASS SEED MIXTURE (RATES NOTED BELOW) WILL BE SPREAD ONTO THE TOPSOIL (WHICH CONTAINS THE APPROPRIATE AMOUNT OF LIME AND FERTILIZER) THAT HAS BEEN RAKED AND CONTOURED TO FINAL GRADE. IF THE TOPSOIL HAS BEEN PLACED AND CRUSTED BEFORE SEEDING CAN TAKE PLACE. THE TOP SOIL MUST BE TILLED. AFTER SPREADING THE GRASS SEED MIXTURE, THE AREAS SHOULD BE COVERED WITH STRAW (OR OTHER SUITABLE MATERIAL) AND WATERED.
- 8. LIME, FERTILIZERS, SEEDS AND APPROPRIATE MULCH MATERIALS MAY BE APPLIED SIMULTANEOUSLY IN A MIXTURE OF THESE MATERIALS AND WATER BY A HYDROSEEDER. THE WATER AND MATERIALS MIXTURE (SLURRY) WILL BE KEPT THOROUGHLY AGITATED DURING BLENDING AND SPRAYING AND WILL BE UNIFORMLY APPLIED AT A RATE THAT DOES NOT CAUSE EROSION.

| SEEDING MIXTURE | PLANTING RATE | (LBS/ACRE) | PLANTING DATES |
|---|----------------------------|----------------------------|---|
| ALONE MIXED FESCUE, TALL MIXED LESPEDEZA, ANNUAL LESPEDEZA , SERICEA (SCARIFIED) (UNSCARIFIED) RYE GRASS, (TEMP) | 40 40 40 60 60 | 20 10 40 60 10 | AUG. – OCT. MAR. – APRIL APRIL – JUNE OCT. – APRIL AUG. – NOV. & FEB., MAR. |

SHEET NOTES

1.

SEDIMENT CONTROL - SEQUENCE OF CONSTRUCTION:

- CLEAR AND GRUB REMAINING AREA(S).
- GRADE PROJECT SITE.
- INSTALL UTILITIES; UTILIZE NEW STORM DRAINS AS THEY BECOME OPERABLE; INSTALL AND MAINTAIN INLET AND OUTLET PROTECTION THROUGHOUT CONSTRUCTION. 7.
- 8. GRADE PROJECT AREA TO FINAL ELEVATION(S), INSTALL LANDSCAPING AND HYDROSEEDING.
- 9.
- 10. REMOVE SEDIMENT AND EROSION CONTROLS.

PROJECT CLOSEOUT NOTE

DRAINAGE NOTE

1.

| THESSON IS IN THE STUDY CARDING | | 4 3 | | | | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
|--------------------------------------|---|---------------|----------------------|------|-------------------------|---|
| 0 0-37-6 No. 30116 0 0. C00708 | 4390 BELLE OAKS DRIVE. SUITE 220 | 1 REV. NO. | BY | DATE | DESCRIPTION OF REVISION | EROSION CONTROL DETAIL SHEET |
| D. COMMUNICATION OF AUTOMOTION | NORTH CHARLESTON, SC 29405 PHONE (843) 266-9300 FAX (843) 529-9616 WWW.TRANSYSTEMS.COM | TOPO DWG | DATE DATE DATE | | SQUAD | RTE./RD. ALL ROADS |

| DESIGN BY: | | | | | | | |
|--------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 3 | S.C. | CHARLESTON | P306150018 | ALL | EC01 | 65 |

ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE SOUTH CAROLINA STORWWATER MANAGEMENT AND SEDIMENT CONTROL HANDBOOK FOR LAND DISTURBING ACTIVITIES. ALTERNATIVE TYPE OF DEVICES MAY BE SUBSTITUTED BY THE CONTRACTOR ONLY AFTER APPROVAL BY THE CITY OF NORTH CHARLESTON PUBLIC WORKS.

1. FOR THE SITE, PERFORM OPERATIONS IN THE FOLLOWING SEQUENCE: CONTACT THE CITY OF NORTH CHARLESTON BUILDING DEPARTMENT (TREE PROTECTION INSPECTIONS) AND PUBLIC WORKS DEPARTMENT (SILT FENCE INSPECTIONS) 48 HOURS PRIOR TO START OF CONSTRUCTION.

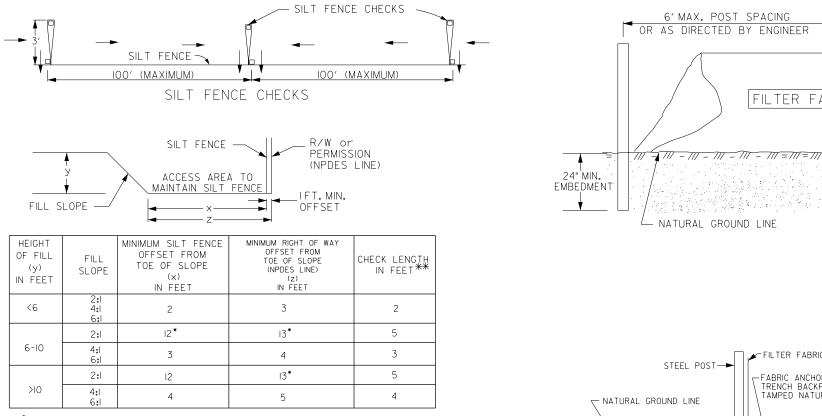
3. CLEAR AND GRUB AS REQUIRED FOR INSTALLATION OF EROSION CONTROLS. 4. INSTALL SILT FENCE, INLET PROTECTION, AND TREE PROTECTION.

CONTACT THE CITY OF NORTH CHARLESTON PUBLIC WORKS DEPARTMENT FOR FINAL INSPECTION AND CLOSE OUT OF THE PROJECT.

UPON COMPLETION OF CONSTRUCTION FOR THIS PHASE OF DEVELOPMENT, THE CONTRACTOR SHALL PROVIDE THE CITY OF NORTH CHARLESTON WITH PROJECT CLOSEOUT APPLICATION FORM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 2.2.2 OF THE CITY OF NORTH CHARLESTON STORMWATER DESIGN MANUAL. THE CONTRACTOR SHALL PROVIDE A CERTIFICATION ON THE PROJECT CLOSEOUT APPLICATION FORM.

THE CONTRACTOR SHALL COMPLETE THE STORM DRAINAGE SYSTEM IN ACCORDANCE WITH THE APPROVED PLANS. IN THE EVENT THAT THE DEVELOPMENT CANNOT BE COMPLETED, DUE TO CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL, THE CONTRACTOR SHALL ENSURE THAT THE COMPLETED STORM DRAINAGE SYSTEM WILL ACCOMMODATE THE STORMWATER RUNOFF GENERATED FROM THE PROJECT AND ADJOINING PHASES OF DEVELOPMENT AND IS COLLECTED AND DISCHARGED IN A PROPER MANNER. IN THIS CASE, THE CONTRACTOR SHALL SUBMIT A PLAN TO PUBLIC WORKS FOR REVIEW/APPROVAL OF THE TEMPORARY DRAINAGE PLAN.

SILT FENCE (SHOWN IS A STANDARD SILT FENCE APPLICATION)



THESE MINIMUM OFFSETS MAY BE REDUCED WHEN CURB AND GUTTER OR SOME OTHER FEATURE REDUCES THE FLOW OF WATER DOWN THE SLOPE. THE SMALL OFFSETS OF EACH GROUP OF HEIGHT OF FILL CANNOT BE REDUCED.

** SILT FENCE CHECKS WILL HAVE A MAXIMUM LENGTH OF FIVE (5) FEET OR UNTIL THEY TIE BACK INTO THE SLOPE.

NOTES:

I. SILT FENCE CHECKS MUST BE LOCATED EVERY 100 FT. MAXIMUM AND AT LOW POINTS. FILTER FABRICS SHALL CONFORM TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

2. USE POSTS CONFORMING TO SCDOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. POSTS SHALL BE A MINIMUM OF 5 FEET LONG AND INSTALLED TO A MINIMUM DEPTH OF 24 INCHES WITH NO MORE THAN 3 FEET OF THE POST ABOVE THE FABRIC. POST SPACING WILL BE A MAXIMUM OF 6 FEET ON CENTER.

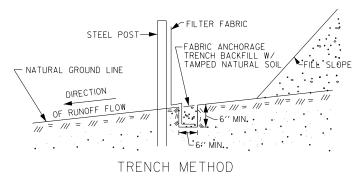
3. POSTS SHALL HAVE PROJECTIONS FOR FASTENING THE FABRIC TO THE POST. POSTS SHALL ALSO HAVE A SOIL PLATE NEAR THE BOTTOM OF THE POST. EXCEPT WHEN HEAVY CLAY SOILS ARE PREENT ON-SITE.

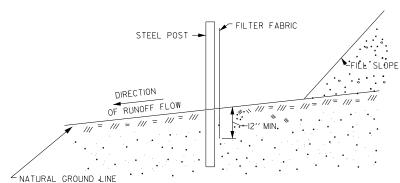
4. ATTACH FABRIC TO POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES, TIES SHOULD BE AFFIXED IN NO LESS THAN 4 PLACES.

5. SILT SHALL BE REMOVED AND DISPOSED OF WHEN SILT ACCUMULATES TO 1/3 THE HEIGHT OF THE FENCE. MAINTENANCE OF SILT FENCE WILL BE MEASURED AND PAID FOR BY THE ITEM OF SILT BASIN.

6. TYPICAL SILT FENCE APPLICATIONS REQUIRE 24 INCHES OF THE FABRIC TO BE ABOVE GROUND. WHEN NEEDED, THE HEIGHT OF SILT FENCE FABRIC ABOVE THE GROUND MAY BE GREATER THAN 24". SEE PLANS FOR APPLICATION OF HIGHER SILT FENCE, PAY ITEMS AND INSTALLATION METHODS.

7. IN TIDAL AREAS, SILT FENCE EXTRA HEIGHT MAY BE REQUIRED. THE LENGTH OF POST WILL BE TWICE THE EXPOSED POST HEIGHT. POST SPACING AND BURIED DEPTHS WILL REMAIN AS SHOWN HEREON. EXTRA HEIGHT FABRIC WILL BE 4,5 OR 6 FEET TOTAL WIDTH.





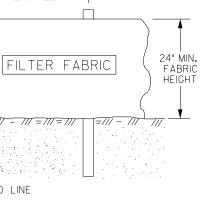
PNEUMATIC METHOD

NOTE:

I. 12 INCHES OF THE FABRIC SHALL BE BURIED REGARDLESS, IF PLACED PNEUMATICALLY OR BY HAND WITH A TRENCHER. BOTH METHODS SHOWN HERE ON.

| HUTH CARO | CONSULTING ENGINEERING FIRM | 4 3 | | | | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
|------------------|----------------------------------|-------------|--------------|------|-------------------------|---|
| CORPORATION | Tran Systems > | 2 | | | | |
| No. C00738 | 4390 BELLE OAKS DRIVE, SUITE 220 | REV. NO. | BY | DATE | DESCRIPTION OF REVISION | EROSION CONTROL DETAIL SHEET |
| D. COMMENT | FILONE (043) 200-3300 | TOPO DWG | DATE DATE | | | |
| someone sulling. | | R/W | DATE | | | RTE./RD. ALL ROADS |

| DESIGN BY: | | | | | | | |
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| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 3 | s.c. | CHARLESTON | P306150018 | ALL | EC02 | 65 |
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I.FILTER FABRIC IS USED FOR INLET PROTECTION WHEN STORM WATER FLOWS ARE RELATIVELY SMALL (I.O CFS OR LESS) WITH LOW VELOCITIES, WHERE THE INLET DRAINS AREA HAS GRADES NO GREATER THAN 5%. AND THE IMMEDIATE DRAINAGE AREA AROUND THE INLET (5 FOOT RADIUS) HAS GRADES LESS THAN 1%. USE IN AREAS RECIEVING CONCENTRATED FLOW IS NOT ACCEPTABLE. THIS PRACTICE CANNOT BE USEO WHERE DITCHES ARE PAVED.A TRENCH SHALL BE EXCAVATED 6 INCHES WIDE AND 6 INCHES DEEP AROUND THE OUTER PERIMETER OF THE STAKES UNLESS FABRIC IS PNEUMATICALLY INSTALLED.

2. FILTER FABRIC SHALL CONFORM TO SCOOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION), FILTER FABRIC SHALL EXTEND A MINIMUM OF 12 INCHES INTO THE TRENCH. THE TRENCH SHALL BE BACKFILLED WITH SOIL OR CRUSHED STONE AND COMPACTED OVER THE FILTER FABRIC UNLESS FABRIC IS PNEUMATICALLY INSTALLED.

3. USE STEEL POSTS WITH A MINIMUM POST LENGTH OF 5 FEET CONSISTING OF STANDARD 'T' SECTIONS WITH A WEIGHT OF 1.25 POUNDS PER FOOT (3 %). THE HEIGHT OF THE FILTER BARRIER ABOVE GROUND SHALL BE A MINIMUM OF 24 INCHES.POSTS SHALL BE SPACED AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVEN INTO THE GROUND A MINIMUM OF 24 INCHES.ATTACH FABRIC TO POSTS USING ONLY HEAVY DUTY PLASTIC TIES.ATTACH AT LEAST 4 EVENLY SPACED TIES IN A MANNER TO PREVENT SAGGING OR TEARING OF THE FABRIC.

4. FILTER FABRIC SHOULD BE IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE PROTECTED AREA TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHOULD BE WRAPPED TOGETHER ONLY AT A SUPPORT POST WITH BOTH ENDS SECURELY FASTENED TO THE POST WITH A MINIMUM 6 INCH OVERLAP.

5 EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON-SITE. STEEL POSTS SHALL HAVE A METAL PLATE SECURELY A~TACHED SUCH THAT WHEN THE POST IS DRIVEN TO THE PROPER DEPTH. THE PLATE WILL BE BELOW GROUND LEVEL FOR ADDITIONAL STABILITY.

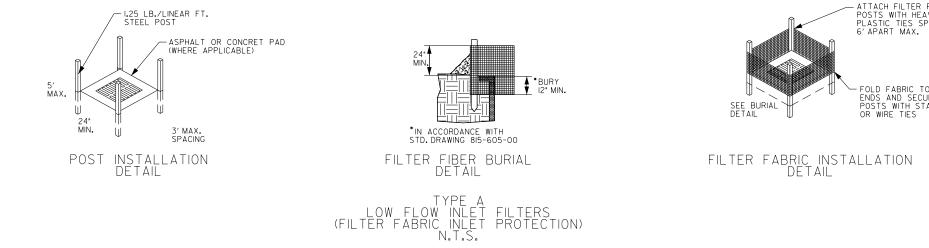
INSPECTION AND MAINTENANCE:

I. INSPECTIONS SHOULD BE MADE EVERY SEVEN (7) CALENDAR DAYS. ANY NEEDED REPAIRS SHOULD BE HANDLED

2.1F THE FABRIC BECOMES CLOGGED.IT SHOULD BE REPLACED.

3. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE FILTER FABRIC. IF A SUMP IS USED. SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA* ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM. TAKE CARE NOT TO DAMAGE OR UNDERCUT FABRIC WHEN REMOVING SEDIMENT. SEDIMENT REMOVAL WILL BE PAID FOR AS SILT BASINS.

4. STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE INLET STRUCTURE CREST. USE APPROPRIATE PERMANENT STABILIZATION METHODS TO STABILIZE BARE AREAS AROUND THE INLET.





I.INSTALL SEDIMENT TUBES BY LAYING THEM FLAT ON THE GROUND.CONSTRUCT A SMALL TRENCH TO A LAY THE SEDIMENT TUBE IN THE TRENCH AND COMPACT THE UPSTREAM SEDIMENT TUBE SOIL INTERFACE BETWEEN THE SOIL AND THE BOTTOM OF THE SEDIMENT TUBE.LAP THE ENDS OF ADJACENT SEDIMENT T SEDIMENT FROM PASSING THROUGH THE FIELD JOINT.NEVER STACK SEDIMENT TUBES ONTOP OF ONE ANO

2. SHOULD SEDIMENT TUBE BECOME DAMAGED DURING INSTALLATION, PLACE A STAKE ON BOTH SIDES OF AND INSTALL A NEW TUBE SEGMENT.

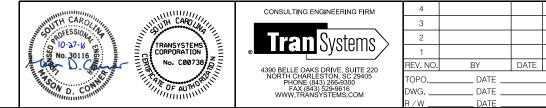
3. INSTALL SEDIMENT TUBES USING WOODEN STAKES (IINCH X IINCH) OR STEEL POSTS (STANDARD "U" OR PER FOOT) A MINIMUM OF 4 FEET IN LENGTH PLACED ON 2 FOOT CENTERS. INTERTWINE THE STAKES WIT DRIVE THE STAKES INTO THE GROUND TO A MINIMUM DEPTH OF 2.0 FEET LEAVING LESS THAN IFOOT OF INSPECTION AND MAINTENANCE:

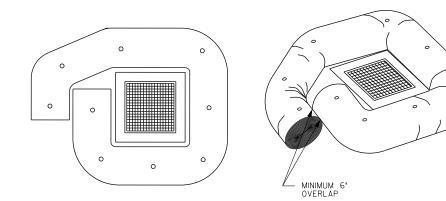
I. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBES AND FOR GAPS TUBES. REPAIR RILLS. GULLIES. AND ALL UNDERCUTTING NEAR SEDIMENT TUBES. SEDIMENT TUBES SHALL A

2. REMOVE AND/OR REPLACE INSTALLED SEDIMENT TUBES AS REQUIRED TO ADAPT TO CHANGING CONSTR

3. REMOVE ALL SEDIMENT TUBES FROM THE SITE WHEN THE FUNCTIONAL LONGEVITY IS EXCEEDED AS DE MANUFACTURER'S REPRESENTATIVE.

4. DISPOSE OF SEDIMENT TUBES IN REGULAR MEANS AS NON-HAZARDOUS INERT MATERIAL.





TYPE A LOW FLOW INLET FILTERS (SEDIMENT TUBE INLET PROTECTION) N.T.S.

| FABRIC TO AVY-DUTY PACED | |
|---|---|
| O OVERLAP URE TO APLES | |
| | |
| | |
| | |
| A DEPTH THAT IS 20% OF THE SEDIMENT CE.INSTALL ALL SEDIMENT TUBES SO NO TUBES A MINIMUM OF 6 INCHES TO PREVI IOTHER. THE DAMAGED AREA TERMINATING THE T | |
| R "T" SECTIONS WITH A MINIMUM WEIGHT OI TH THE OUTER MESH ON THE DOWNSTREAI OF STAKE ABOVE THE EXPOSED SEDIMENT | F 1.25 POUNDS M SIDE, AND TUBE. |
| PS BETWEEN THE JOINTS OF ADJACENT EN ALSO BE INSPECTED EVERY 7 DAYS. RUCTION SITE CONDITIONS. DETERMINED BY THE ENGINEER.INSPECTOR. | |
| | |
| | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
| | EROSION CONTROL DETAIL SHEET |
| | RTE./RD. ALL ROADS |

| DESIGN BY: | | | | | | | |
|--------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 3 | S.C. | CHARLESTON | P306150018 | ALL | EC03 | 65 |
| | | | | | | | |

NOTES:

I. DRAWING SHOWS TYPE IG CATCH BASIN.

2. NON-WEIGHTED TUBES SHALL BE INSTALLED IMMEDIATELY AFTER GRADING AND CONSTRUCTION OF CATCH BASIN BOX. SEDIMENT TUBE SHALL BE MAINTAINED DURING SUBGRADE AND BASE PREPARATION UNTIL BASE COURSE IS PLACED. THEY ARE APPLICABLE FOR CATCH BASIN TYPES I, 16, 17, ANO 18 WITH DRAINAGE AREAS LESS THAN I ACRE.

3. INLET TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION AS NEEDED.

4. NON WEIGHTED SEDIMENT TUBES SHALL BE STAKED DOWN WITH INCH X INCH WOODEN STAKES OR 1.25 LBS/ LINEAR FOOT STEEL POSTS A MINIMUM OF 3 FEET IN LENGTH PLACED ON 2 FOOT CENTERS. THE STAKES SHALL BE DRIVEN INTO THE GROUND A MINIMUM OF 1.0 FOOT LEAVING LESS THAN IFOOT OF STAKE EXPOSED ABOVE THE NON-WEIGHTED TUBE. INSTALL NON-WEIGHTED INLET TUBES SO THE TOP OF THE TUBE IS BELOW THE TOP OF THE INSTALLED CURB LINE TO INSURE THAT ALL OVERFLOW OR OVERTOPPING WATER HAS THE ABILITY TO ENTER THE INLET UNOBSTRUCTED.

5. THE STAKES SHALL BE INTERTWINED WITH THE OUTER MESH ONLY AND SHALL BE PLACED ON THE DOWNSTREAM SIDE OF THE TUBE. REFER TO MANUFACTURER S RECOMMENDATIONS FOR OTHER STAKING DETAILS.

6. AFTER ROAD BASE COURSE IS PLACED, WEIGHTED INLET TUBES SHALL BE PLACED FOR CATCH BASIN TYPES 1, 9, 12, 14, 15, 16, 17, & 18, DI 24 INCHES, DI 24 INCHES X 36 INCHES, MANHOLES, AND TRENCH DRAINS. WEIGHTED INLET TUBES ARE APPLICABLE WHERE CONSTRUCTION TRAFFIC MAY OCCUR AROUND THE INLET.

7. INSTALL WEIGHTED INLET TUBES LYING FLAT ON THE GROUND WITH NO GAPS BETWEEN THE UNDERLYING SURFACE AND THE TUBE.

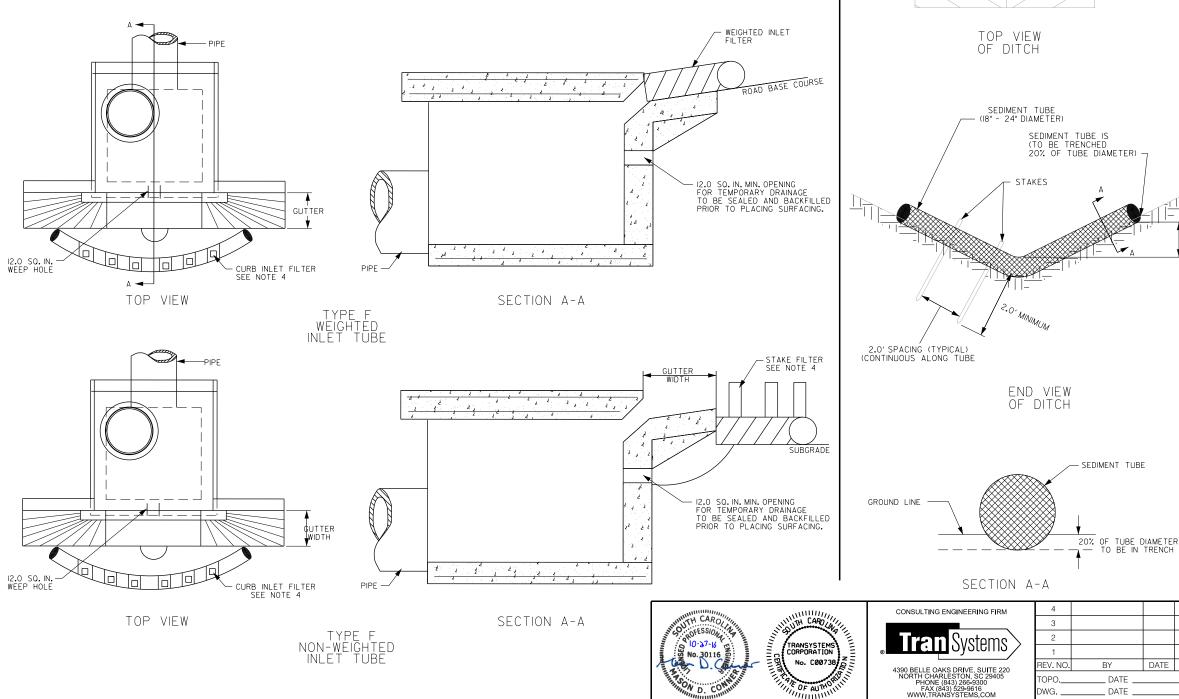
8. DO NOT COMPLETELY BLOCK INLETS WITH INLET TUBES. INSTALL WEIGHTED INLET TUBES IN SUCH A MANNER THAT ALL OVERFLOW CAN ENTER THE INLET UNOBSTRUCTED. TO AVOID POSSIBLE FLOODING, 2 OR 3 CONCRETE CINDER BLOCKS MAY BE PLACEDBETWEEN THE WEIGHTED INLET TUBE AND THE INLET.

9. FOR WEEP HOLE APPLCATIONS. BOTH WEIGHTED AND NON-WEIGHTED INLET TUBES ARE APPLICABLE.

IO. ALL WEIGHTED TYPE F INLET STRUCTURE FILTERS ARE APPLICABLE AS TYPE E INLET STRUCTURE FILTERS.

II. REPLACE INLET TUBES DURING INSTALLATION AS DIRECTED BY THE ENGINEER, INSPECTOR, OR MANUFACTURER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

12. ALL TYPE F INLET FILTERS SHALL BE INSPECTED EVERY 7 CALENDAR DAYS.



| DESIGN BY: | | | | | | | |
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| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
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NOTES:

INCITEDS. I.SEDIMENT TUBE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 815 OF THE SCDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (LATEST EDITION), AND MUST BE LISTED ON SCDOT QUALIFIED PRODUCT LIST NUMBER 57. SEDIMENTAL SPECIFICATIONS BEFORE BEING LISTED ON OPL.AND BE FREE FROM DEFECTS OR TRANSPORTATION DAMAGE.

2. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE SEDIMENT TUBES ARE IN COMPLETE CONTACT WITH UNDERLYING SOIL. SEDIMENT TUBES ARE TO BE 18-24 INCHES IN DIAMETER AND ARE TO BE TRENCHED TO A DEPTH OF 20'OF TUBE DIAMETER. LAY THE SEDIMENT TUBE FLAT IN THE U-SHAPED TRENCH AND COMPACT THE UPSTREAM SEDIEMNT TUBE SOIL INTERFACE. PLACE AND ANCHOR THE SEDIMENT TUBE ENDS SO THEY ARE POSITIONED UPSTREAM OF THE SEDIMENT TUBE CENTER POINT. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE TRENCHING.

3. SEDIMENT TUBE SHALL BE INSTALLED IMMEDIATELY AFTER GRADING AND CONSTRUCTION. SEDIMENT TUBE SHALL BE MAINTAINED DURING SUBGRADE AND BASE PREPARATION UNTIL BASE COURSE IS COMPLETE. SEDIMENT TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION.

4. SEDIMENT TUBES ARE TO BE INSTALLED PERPENDICULAR TO WATER FLOW AND EXTEND UP SIDE SLOPES A MINIMUM OF IFOOT ABOVE DESIGN FLOW DEPTH. SPACE TUBES ACCORDING TO THE FOLLOWING TABLE:

SEDIMENT TUBE_____LF

| SLOPE | MAXIMUM SEDIMENT TUBE SPACING |
|-----------------|----------------------------------|
| LESS THAN 2% | ISO FEET |
| 2 % | IOO FEET |
| 3 % | 75 FEET |
| 4 % | 50 FEET |
| 5 % | 40 FEET |
| 6 % | 30 FEET |
| GREATER THAN 6% | 25 FEET |

5. STAKE THE SEDIMENT TUBES FOR DITCH CHECKS USING STAKES WITH A MINIMUM MEASURED DIMENSION OF 3/4" × 3/4" AND MAXIMUM MEASURED DIMENSION OF 2" × 2", STEEL POSTS WITHOUT A KICK PLATE AND PAINTING IS NOT REQUIRED. SPACE POSTS OR STAKES ON 2' CENTERS AND DRIVE THEM INTO THE GROUND TO A DEPTH OF 2' OR TO THE MAXIMUM EXTENT PRACTIBLE. INSTALL THE STAKES ON THE DOWNSTREAM THIRD OF THE SEDIMENT TUBE. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE STAKING.

6. SELECT PROPER LENGTH OF TUBE TO MINIMIZE THE NUMBER NEEDED TO SPAN THE TOP VIEW WIDTH OF DRAINAGE AREA. ONE CONTINUOUS LENGTH IS PREFERRED COMPARED TO TWO OVERLAPPING TUBES. IF NECESSARY. SEDIMENT TUBES CAN BE OVERLAPPED A MINIMUM OF 6 INCHES TO PREVENT PASSAGE OF FLOW AND SEDIMENT THROUGH FIELD JOINT.

7. INSTALL SEDIMENT TUBES FOR DITCH CHECKS OVER BARE SOIL, MULCHED AREAS, OR EROSION CONTROL BLANKETS. KEEP SEDIMENT TUBES FOR DITCH CHECKS IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.

8. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBES AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF SEDIMENT TUBES. INSPECT SEDIMENT TUBES EVERY 7 DAYS. REPAIR ALL RILLS, GULLIES. AND UNDERCUTTING NEAR SEDIMENT TUBES. REMOVE ALL SEDIMENT DEPOSITS THAT IMPAIR THE FILTRATION CAPABILITY OF SEDIMENT TUBES WHEN THE SEDIMENT REACHES I/3 THE HEIGHT OF THE EXPOSED SEDIMENT TUBE.

9. REMOVE AND/OR REPLACE INSTALLED SEDIMENT TUBES AS REQUIRED TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS. REMOVE SEDIMENT TUBES WHEN THE FUNCTIONAL LONGEVITY IS EXCEEDED AS DETERMINED BY THE ENGINEER, INSPECTOR, OR MANUFACTURER'S REPRESENTATIVE. GATHER SEDIMENT TUBES AND DISPOSE OF THEM IN REGULAR MEANS AS NON-HAZARDOUS NERT MATERIAL.

IO.PRIOR TO FINAL STABILIZATION, BACKFILL ALL TRENCHES, DEPRESSIONS, AND OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF SEDIMENT TUBES.

II. CLEAN OUT OF TUBES WILL BE PAID FOR AS SILT BASIN IN C.Y.

12, PAYMENT SHALL INCLUDE ALL MATERIALS.LABOR.TOOLS.EQUIPMENT, MAINTENANCE, AND INCIDENTALS NECESSARY TO COMPLETE WORK.

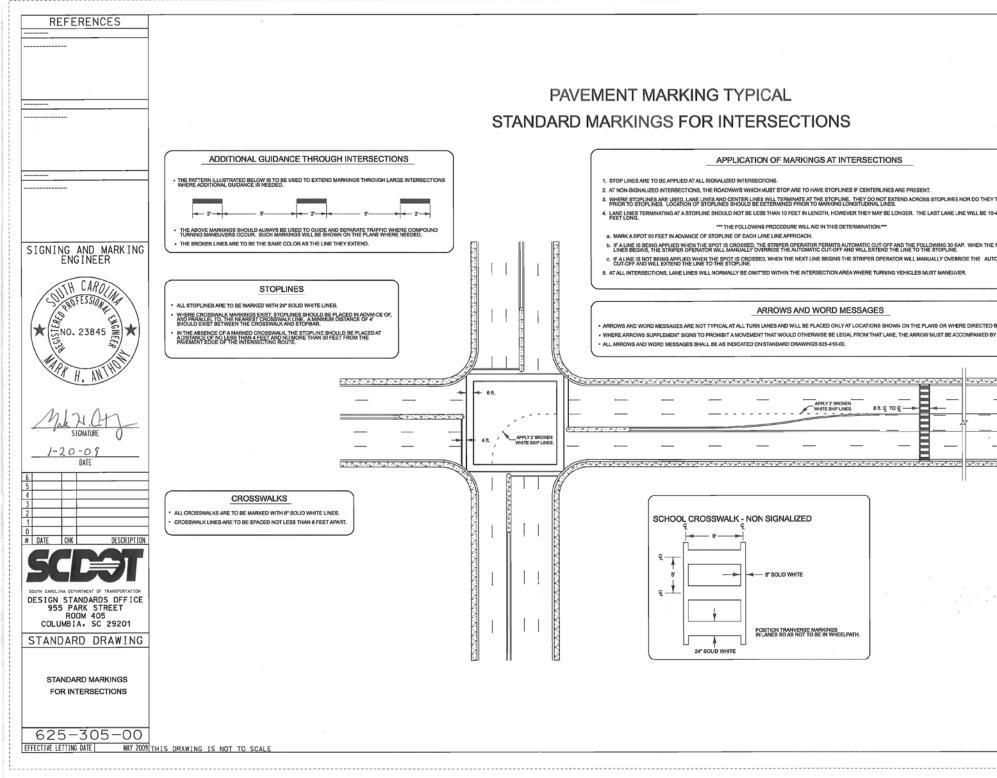
I3. PAY ITEM SHALL BE: SEDIMENT TUBE_____LF

DATE

| | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
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| DESCRIPTION OF REVISION | EROSION CONTROL DETAIL SHEET |
| SQUAD | RTE./RD. ALL ROADS |

I.O' MINIMUM

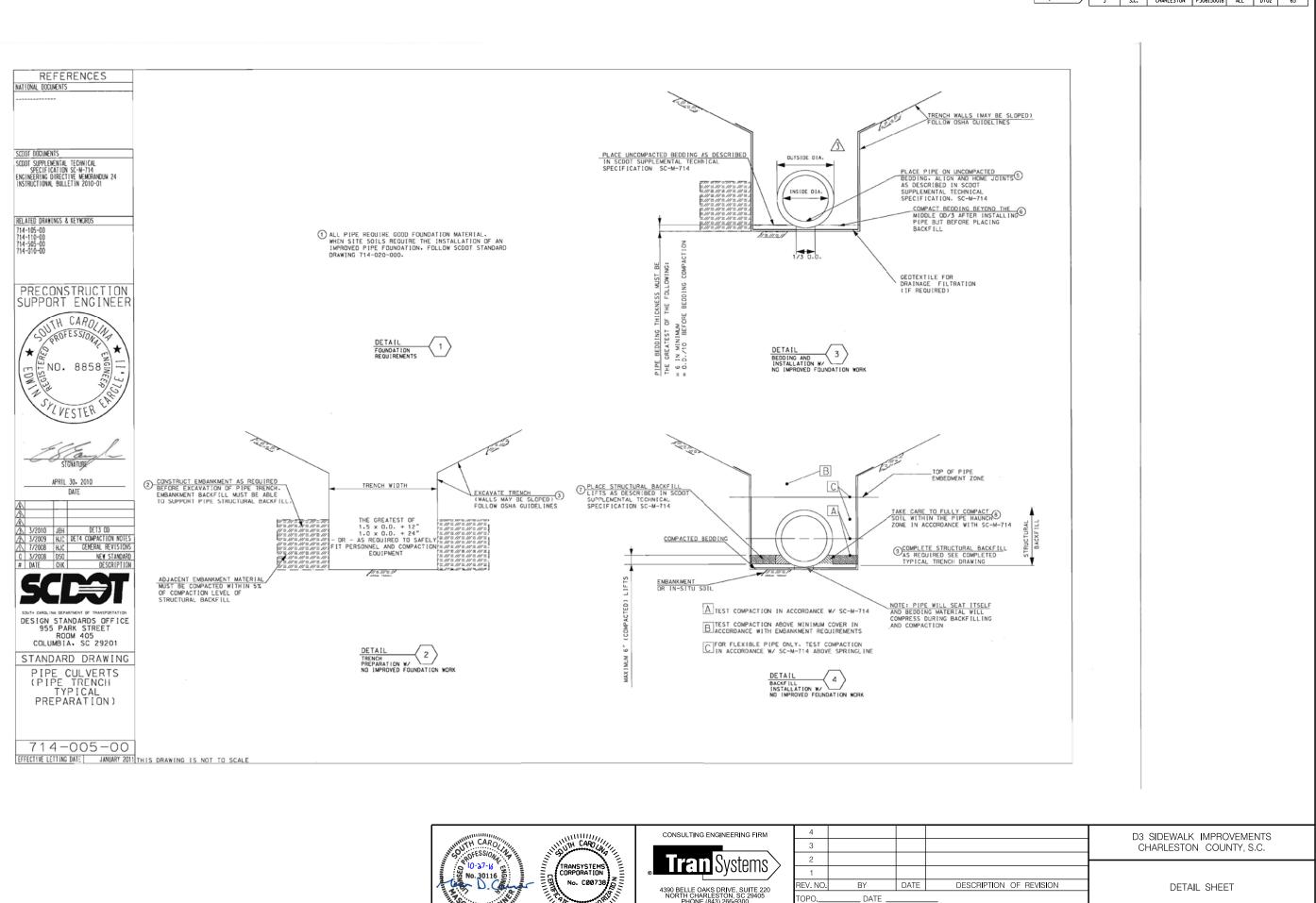
STAKES PLACED AT 2' (TYPICAL)

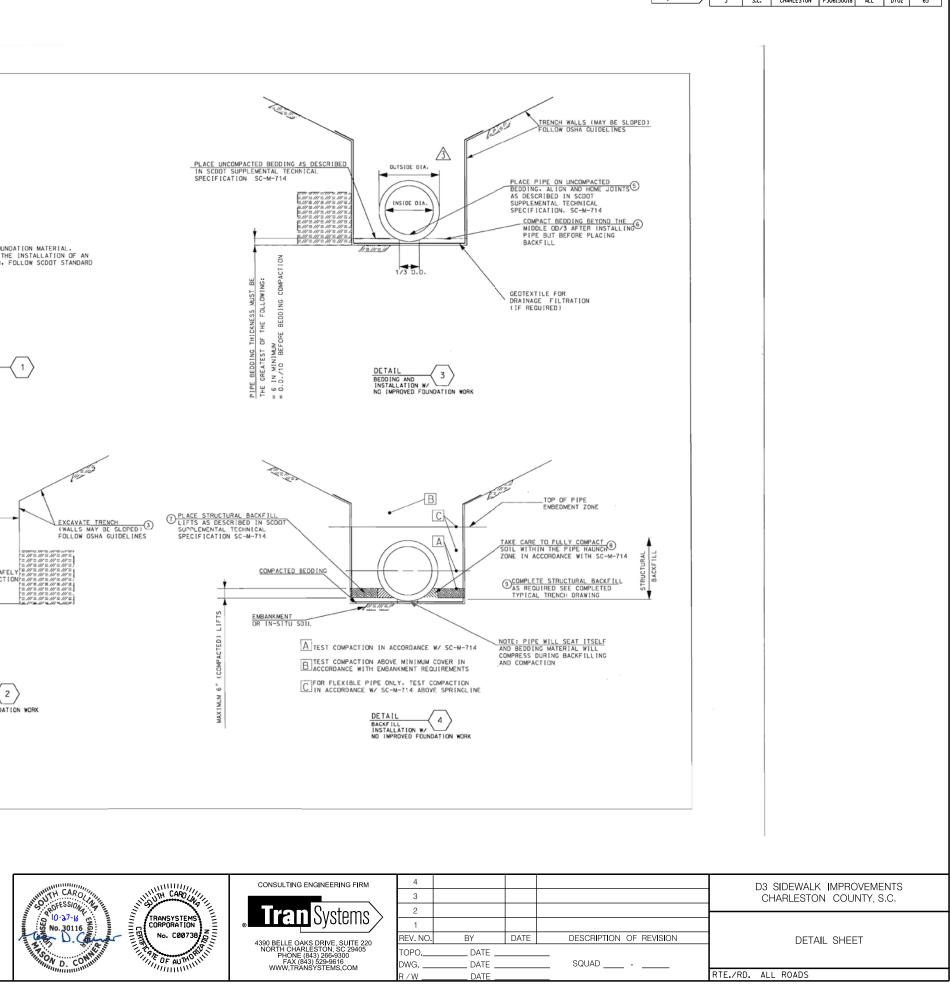




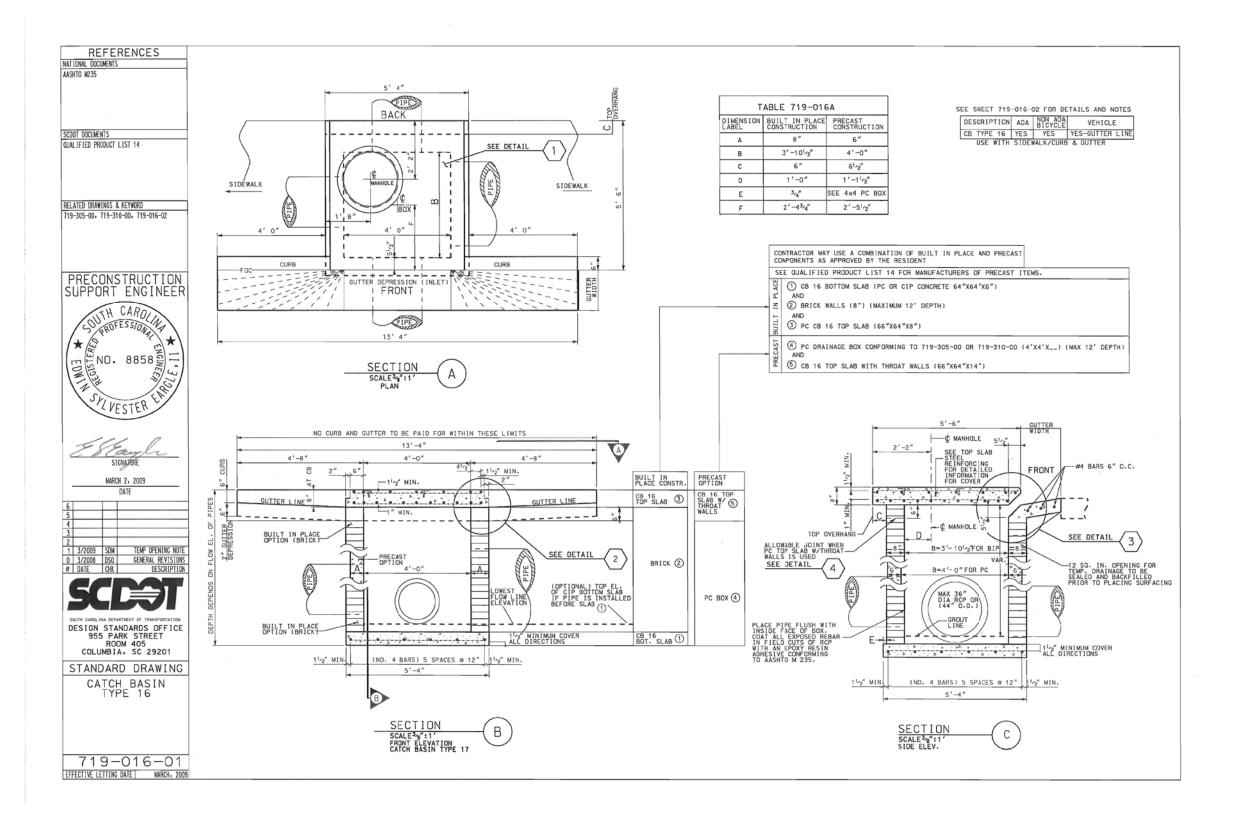
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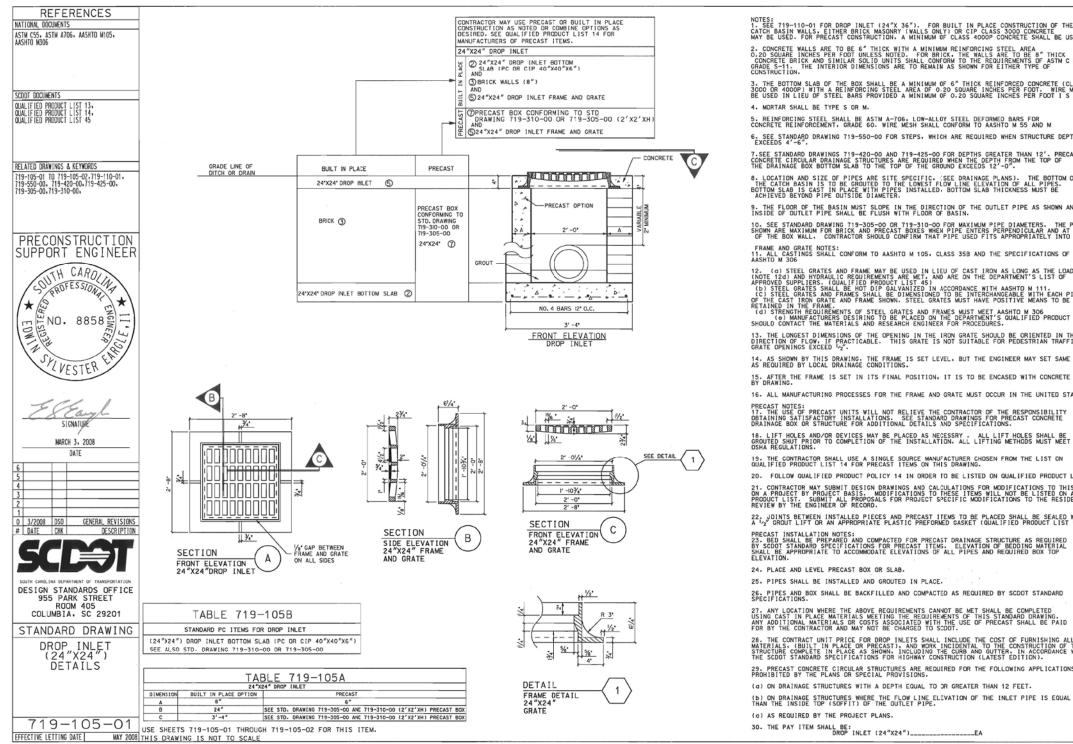
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| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
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| | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
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3 2 DATE

10. SEE STANDARD DRAWING 719-305-00 OR 719-310-00 FOR MU SHOWN ARE MAXIMUM FOR BRICK AND PRECAST BOXES WHEN PIPE OF THE BOX WALL. CONTRACTOR SHOULD CONFIRM THAT PIPE (FRAME AND GRATE NOTES: 11. ALL CASTINGS SHALL CONFORM TO AASHTO M 105, CLASS 35 AASHTO M 306

AASHIU M JUB 12. (d) STEEL GRATES AND FRAME MAY BE USED IN LIEU OF CA (NOTE 12.4) AND HYDRAULIC REQUIREMENTS ARE MET, AND ARE ON APPROVED SUPPLIERS. (d)ALIFIED PRODUCT LIST 45) (b) STEEL GRATES SHALL BE HOT DIP GALYANIZED IN ACCORDAN (C) STEEL GRATES AND FRAME SHALL BE DIMENSIONED TO BE I OF THE CAST IRON GRATE AND FRAME SHALL BE DIMENSIONED TO BE I OF INTE CAST IRON GRATE AND FRAME SHOWN. STEEL GRATES MUST RETAINED IN THE FRAME. (d) STRENGTH REQUIREMENTS OF STEEL GRATES AND FRAMES (o) MANUFACTURERS DESING TO BE PLACED ON THE DEPA SHOULD CONTACT THE MATERIALS AND RESEARCH ENGINEER FOR PR

13. THE LONGEST DIMENSIONS OF THE OPENING IN THE IRON GR DIRECTION OF FLOW. IF PRACTICABLE. THIS GRATE IS NOT SU GRATE OPENINGS EXCEED ¹/2².

14. AS SHOWN BY THIS DRAWING. THE FRAME IS SET LEVEL, BL AS REQUIRED BY LOCAL DRAINAGE CONDITIONS.

15. AFTER THE FRAME IS SET IN ITS FINAL POSITION. IT IS

16. ALL MANUFACTURING PROCESSES FOR THE FRAME AND GRATE

PRECAST NOTES: 17. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRA OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAW DRAINAGE BOX OR STRUCTURE FOR ADDITIONAL DETAILS AND SPEC

18. LIFT HOLES AND/OR DEVICES MAY BE PLACED AS NECESSRY GROUTED SHUT PRIOR TO COMPLETION OF THE INSTALLATION. AL OSHA REGULATIONS.

19. THE CONTRACTOR SHALL USE A SINGLE SOURCE MANUFACTURE QUALIFIED PRODUCT LIST 14 FOR PRECAST ITEMS ON THIS DRAW

20. FOLLOW QUALIFIED PRODUCT POLICY 14 IN ORDER TO BE L

21. CONTRACTOR MAY SUBMIT DESIGN DRAWINGS AND CALCULATID ON A PROJECT BY PROJECT BASIS. MODIFICATIONS TO THESE I PRODUCT LIST. SUBMIT ALL PROPOSALS FOR PROJECT SPECIFIC REVIEW BY THE ENGINEER OF RECORD.

22. JOINTS BETWEEN INSTALLED PIECES AND PRECAST ITEMS TO A $^{1}\prime_{2}^{\prime\prime}$ GROUT LIFT OR AN APPROPRIATE PLASTIC PREFORMED GASK

PRECAST INSTALLATION NOTES: 23. BED SHALL BE PREPARED AND COMPACTED FOR PRECAST DRAIN BY SCOUT STANDARD SPECIFICATIONS FOR PRECAST ITEMS. ELEV SHALL BE APPROPRIATE TO ACCOMMODATE ELEVATIONS OF ALL PIP ELEVATION.

24. PLACE AND LEVEL PRECAST BOX OR SLAB.

25. PIPES SHALL BE INSTALLED AND GROUTED IN PLACE.

26. PIPES AND BOX SHALL BE BACKFILLED AND COMPACTED AS RESPECIFICATIONS.

27. ANY LOCATION WHERE THE ABOVE REQUIREMENTS CANNOT BE I USING CAST IN PLACE MATERIALS MEETING THE REQUIREMENTS OF ANY ADDITIONAL MATERIALS OR COSTS ASSOCIATED WITH THE USI FOR BY THE CONTRACTOR AND MAY NOT BE CHARGED TO SCDOT.

28. THE CONTRACT UNIT PRICE FOR DROP INLETS SHALL INCLUD MATERIALS. (BUILT IN PLACE OR PRECAST). AND WORK INCIDEN STRUCTURE COMPLETE IN PLACE AS SHOWN. INCLUDING THE CURB THE SCODT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTI

29. PRECAST CONCRETE CIRCULAR STRUCTURES ARE REQUIRED FO PROHIBITED BY THE PLANS OR SPECIAL PROVISIONS.

(d) ON DRAINAGE STRUCTURES WITH A DEPTH EQUAL TO DR GREA (b) ON DRAINAGE STRUCTURES WHERE THE FLOW LINE ELEVATION THAN THE INSIDE TOP (SOFFIT) OF THE DUTLET PIPE.

(c) AS REQUIRED BY THE PROJECT PLANS.

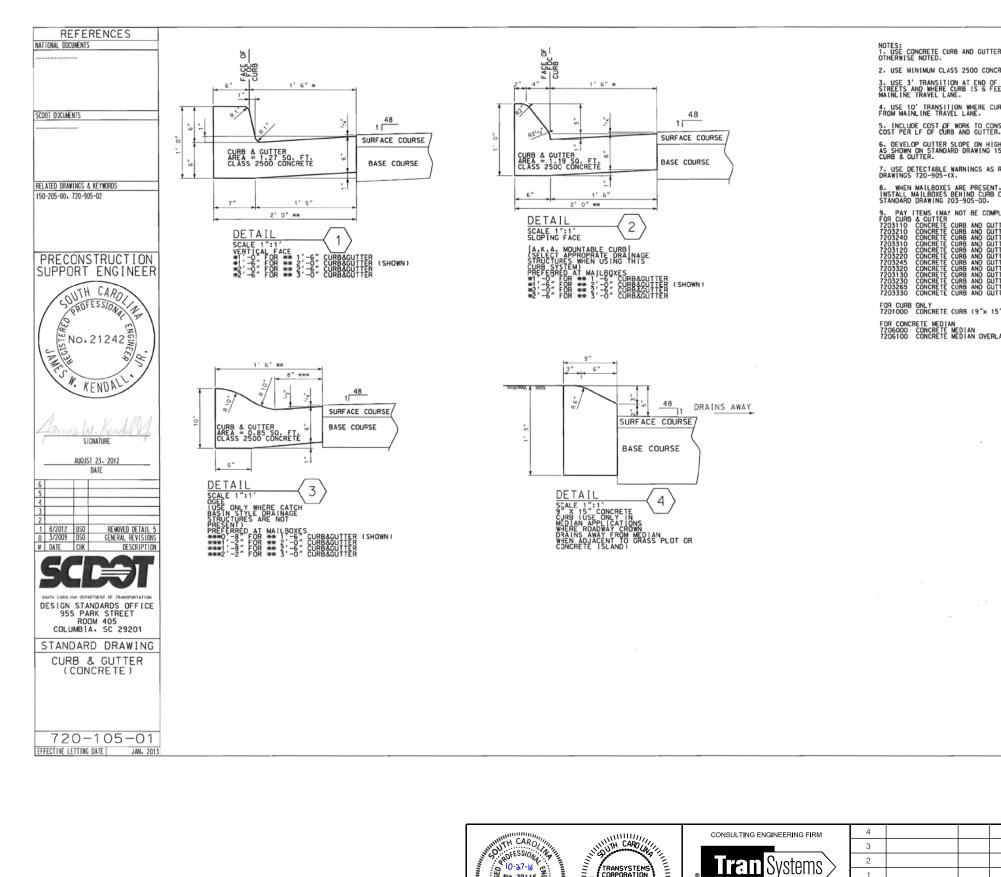
30. THE PAY ITEM SHALL BE: DROP INLET (24"X24")___



| IN PLACE CONSTRUCTION OF THE CIP CLASS 3000 CONCRETE SS 4000P CONCRETE SHALL BE USED. | | |
|---|---|--|
| NFORCING STEEL AREA HE WALLS ARE TO BE 8" THICK O THE REQUIREMENTS OF ASTM C 55. HOWN FOR EITHER TYPE OF | | |
| THICK REINFORCED CONCRETE (CLASS UARE INCHES PER FOOT. WIRE MESH O SQUARE INCHES PER FOOT I S MET. | | |
| EL DEFORMED BARS FOR RM TO AASHTO M 55 AND M | | |
| REQUIRED WHEN STRUCTURE DEPTH | | |
| EPTHS GREATER THAN 12'. PRECAST THE DEPTH FROM THE TOP OF XCEEDS 12'-0". | | |
| RAINAGE PLANS). THE BOTTOM OF NE ELEVATION OF ALL PIPES. OM SLAB THICKNESS MUST BE | | |
| F THE OUTLET PIPE AS SHOWN AND THE N. | | |
| AXIMUM PIPE DIAMETERS. THE PIPE SIZES ENTERS PERPENDICULAR AND AT THE CENTER USED FITS APPROPRIATELY INTO BOX. | | |
| 5B AND THE SPECIFICATIONS OF | | |
| CAST IRON AS LONG AS THE LOADING ON THE DEPARTMENT'S LIST OF | | |
| ANCE WITH AASHTO M 111. INTERCHANGEABLE WITH EACH PIECE ST HAVE POSITIVE MEANS TO BE | | |
| UST MEET AASHTO M 306 PARTMENT'S QUALIFIED PRODUCT LIST PROCEDURES. | | |
| RATE SHOULD BE ORIENTED IN THE UITABLE FOR PEDESTRIAN TRAFFIC BECAUSE | | |
| UT THE ENGINEER MAY SET SAME ON SLOPE | | |
| TO BE ENCASED WITH CONCRETE AS SHOWN | | |
| MUST OCCUR IN THE UNITED STATES. | | |
| ACTOR OF THE RESPONSIBILITY OF WINGS FOR PRECAST CONCRETE ECIFICATIONS. | | |
| . ALL LIFT HOLES SHALL BE LL LIFTING METHODS MUST MEET | | |
| ER CHOSEN FROM THE LIST ON WING. | | |
| LISTED ON QUALIFIED PRODUCT LIST 14. ONS FOR MODIFICATIONS TO THIS ITEM ITEMS WILL NOT BE LISTED ON ANY QUALIFIED C MODIFICATIONS TO THE RESIDENT ENGINEER FOR | t | |
| O BE PLACED SHALL BE SEALED WITH SKET (QUALIFIED PRODUCT LIST 13.) | | |
| INAGE STRUCTURE AS REQUIRED EVATION OF BEDDING MATERIAL IPES AND REQUIRED BOX TOP | | |
| | | |
| REQUIRED BY SCDOT STANDARD | | |
| MET SHALL BE COMPLETED OF THIS STANDARD DRAWING. SE OF PRECAST SHALL BE PAID | | |
| DE THE COST OF FURNISHING ALL NTAL TO THE CONSTRUCTION OF THE 18 AND GUTTER. IN ACCORDANCE WITH ION (LATEST EDITION). | | |
| OR THE FOLLOWING APPLICATIONS UNLESS | | |
| ATER THAN 12 FEET. | | |
| N OF THE INLET PIPE IS EQUAL TO OR HIGHER | | |
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| | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
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| DESIGN BY: | | | | | | | |
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| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
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No. 30116

TRANSYSTEMS CORPORATION No. C00738

OF AUT

| DESIGN BY: | | | | | | | |
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| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
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| UTTER WITH VERTICAL FACE UNLESS | |
| CONCRETE. D OF RADII ON INTERSECTING 5 FEET OR GREATER FROM | |
| E CURB IS LESS THAN 6 FEET | |
| CONSTRUCT TRANSITIONS IN THE | |
| HIGH SIDE OF SUPERELEVATION NG 150-205-00, EXCEPT ON OGEE | |
| AS REQUIRED ON STANDARD | |
| SENT, USE APPROPRIATE CURB TYPE. URB OR SIDEWALK AS SHOWN ON O. | |
| COMPLETE LIST OF PAY ITEMS): | |
| GUITER (1'-6') VERTICAL FACE GUITER (2'-0') VERTICAL FACE GUITER (2'-0') VERTICAL FACE GUITER (3'-0') VERTICAL FACE GUITER (1'-6') VERTICAL FACE GUITER (1'-6') SLOPING FACE GUITER (2'-0') SLOPING FACE GUITER (2'-6') SLOPING FACE GUITER (2'-6') OCEE GUITER (2'-6') OCEE GUITER (2'-6') OCEE GUITER (3'-0') OCEE GUITER (3'-0') OCEE | |
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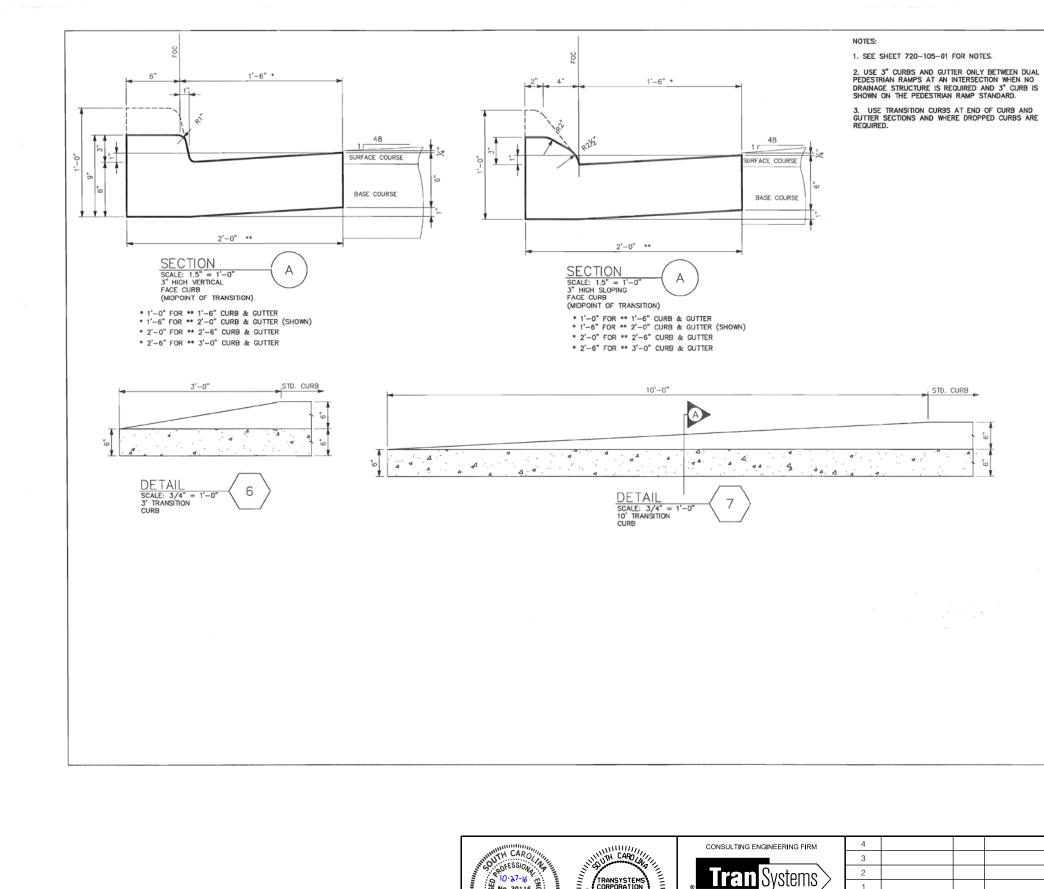
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4390 BELLE OAKS DRIVE, SUITE 220 NORTH CHARLESTON, SC 29405 PHONE (843) 266-9300 FAX (843) 529-9616 WWW.TRANSYSTEMS.COM



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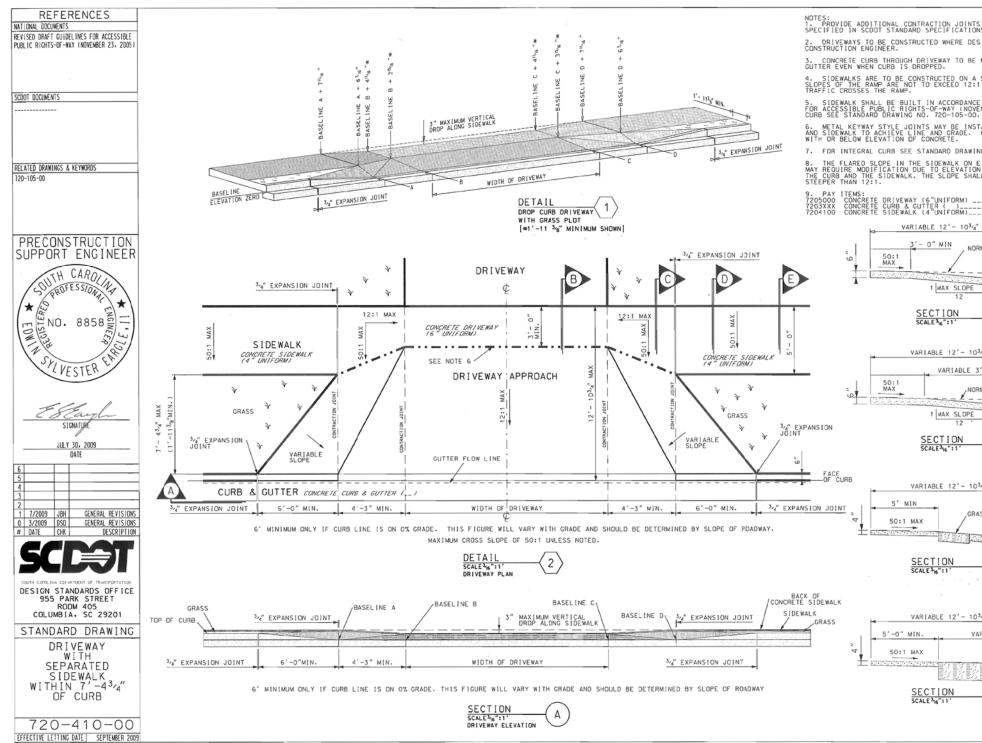
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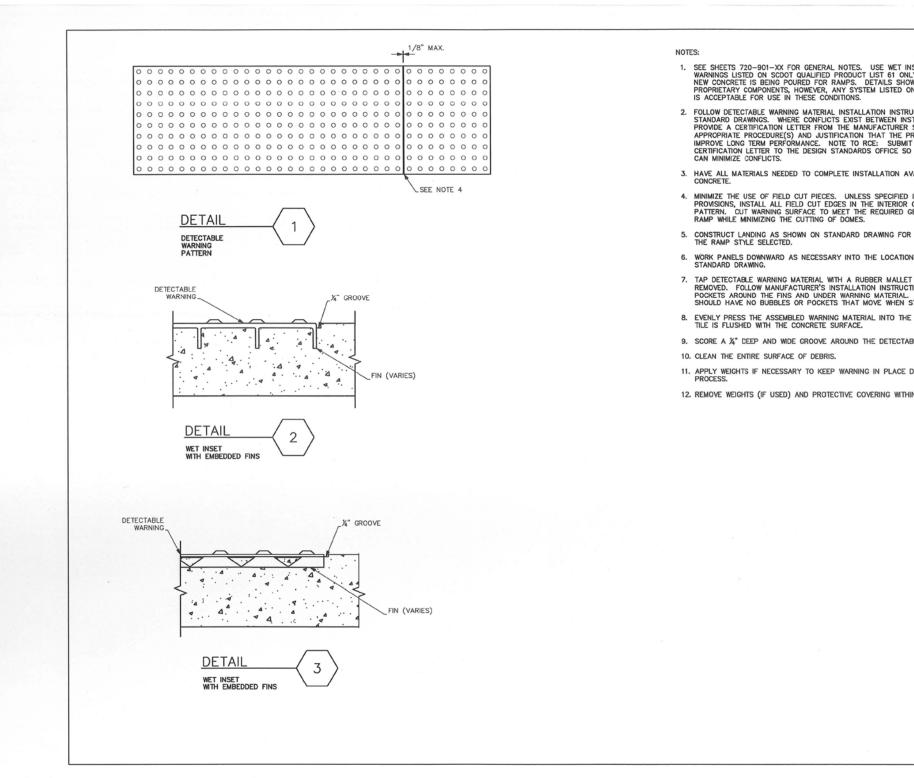
REFERENCES SCDOT DOCUMENTS RELATED DRAWINGS & KEYWORDS THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE. H CARO MINIM W. KENDA Jones W. Kendel 9-26-12. DATE 6 ---- ----5 --- --4 --- -----2 ---- --1 ----0 8/2012 DS0 NEW DRAWING # DATE CHK DESCRIPTION 661 SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS OFFICE 955 PARK STREET ROOM 4C5 COLUMBIA, SC 29201 STANDARD DRAWING CURB & GUTTER (CONCRETE) TRANSITION CURBS AND 3" CURB AND GUTTER 720-105-02 EFFECTIVE LETTING DATE JAN. JAN., 2013

| | | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
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| | 4390 BELLE OAKS DRIVE, SUITE 220 NORTH CHARLESTON, SC 29405 PHONE (843) 266-9300 | ТОРО | TOPO DATE | | | | |
| OF AUTHON D. COMMITT | PHONE (843) 266-9300 FAX (843) 529-9616 WWW TRANSYSTEMS.COM | DWG | DATE | | SQUAD | | |
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| KEEP METAL JOINT | VEWAY APPROACH MATERIAL FLUSH | | | | | | | |
| VING NO. 720-105-00. I EITHER SIDE OF THE ON DIFFERENCES BETW WALL BE NO | | | | | | | | |
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| 10 ³ /4" MAX 3' MIN IORMAL SLOPE LINE E | GUTTER LINE | | | | | | | |
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| RASS 12:1 MAX | 48:1 | | | | | | | |
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| VARIABLE CRASS | GUTTER LINE | | | | | | | |
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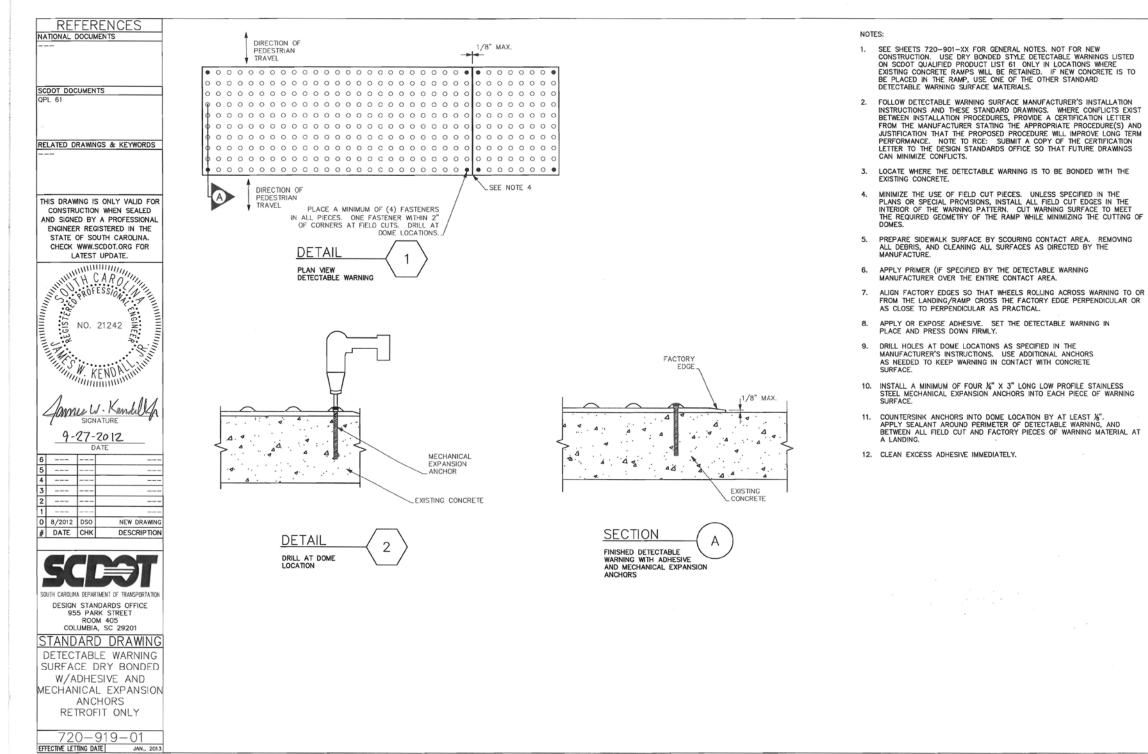


| | CONSULTING ENGINEERING FIRM | 4 | | | | D3 SIDEWALK IMPROVEMENTS |
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| 0 10-27-16 | Tran Systems | 2 | | | | |
| No. 30116 E E CORPORATION | _® | 1 | | | | |
| D. Com EN No. C00738 | 4390 BELLE OAKS DRIVE, SUITE 220 | REV. NO. | BY | DATE | DESCRIPTION OF REVISION | DETAIL SHEET |
| The Aller The Aller | 4390 BELLE OAKS DRIVE, SUITE 220 NORTH CHARLESTON, SC 29405 PHONE (843) 266-9300 FAX (843) 529-9616 WWW, TRANSYSTEMS.COM | ТОРО | DATE | | | |
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- SEE SHEETS 720-901-XX FOR GENERAL NOTES. USE WET INSET STYLE DETECTABLE WARNINGS LISTED ON SCDOT QUALIFIED PRODUCT LIST 61 ONLY IN LCCATIONS WHERE NEW CONCRETE IS BEING POURED FOR RAMPS. DETAILS SHOWN MAY INCLUDE PROPRIETARY COMPONENTS, HOWEVER, ANY SYSTEM LISTED ON QPL 61 AS WET INSET IS ACCEPTABLE FOR USE IN THESE CONDITIONS.
- 2. FOLLOW DETECTABLE WARNING MATERIAL INSTALLATION INSTRUCTIONS AND THESE STANDARD DRAWINGS. WHERE CONFLICTS EXIST BETWEEN INSTALLATION PROCEDURES, PROVIDE A CERTIFICATION LETTER FROM THE MANUFACTURER STATING THE APPROPRIATE PROCEDURE(S) AND JUSTIFICATION THAT THE PROPOSED PROCEDURE WILL IMPROVE LONG TERM PERFORMANCE. NOTE TO RCE: SUBMIT A COPY OF THE CERTIFICATION LETTER TO THE DESIGN STANDARDS OFFICE SO THAT FUTURE DRAWINGS CAN MINIMIZE CONFLICTS.
- 3. HAVE ALL MATERIALS NEEDED TO COMPLETE INSTALLATION AVAILABLE BEFORE PLACIN
- 4. MINIMIZE THE USE OF FIELD CUT PIECES. UNLESS SPECIFIED IN THE PLANS OR SPECIF PROMSIONS, INSTALL ALL FIELD CUT EDGES IN THE INTERIOR OF THE WARNING PATTERN. CUT WARNING SURFACE TO MEET THE REQUIRED GEOMETRY OF THE RAMP WHILE MINIMIZING THE CUTTING OF DOMES.
- 6. WORK PANELS DOWNWARD AS NECESSARY INTO THE LOCATION SHOWN ON THE STANDARD DRAWING.
- 7. TAP DETECTABLE WARNING MATERIAL WITH A RUBBER MALLET UNTIL AIR POCKETS ARE REMOVED. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS TO REMOVE AIR POCKETS AROUND THE FINS AND UNDER WARNING MATERIAL. FINISHED PRODUCT SHOULD HAVE NO BUBBLES OR POCKETS THAT MOVE WHEN STEPPED ON.
- 8. EVENLY PRESS THE ASSEMBLED WARNING MATERIAL INTO THE CONCRETE UNTIL THE TILE IS FLUSHED WITH THE CONCRETE SURFACE.
- 9. SCORE A 1/4" DEEP AND WIDE GROOVE AROUND THE DETECTABLE WARNING.
- 11. APPLY WEIGHTS IF NECESSARY TO KEEP WARNING IN PLACE DURING CURING
- 12. REMOVE WEIGHTS (IF USED) AND PROTECTIVE COVERING WITHIN 1 WEEK.

| DESIGN BY: | | | | | | | |
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| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
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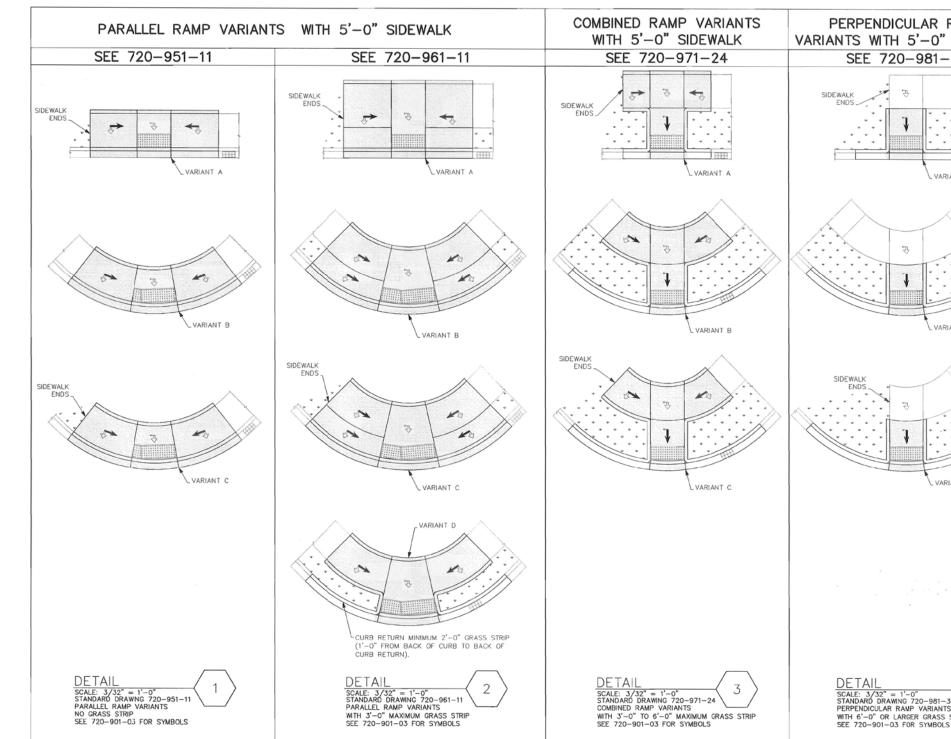
| | REFERENCES | |
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| | NATIONAL DOCUMENTS | |
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| | STANDARD DRAWING | |
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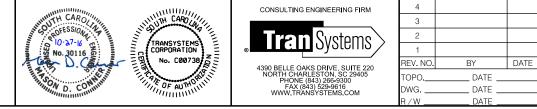




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| | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
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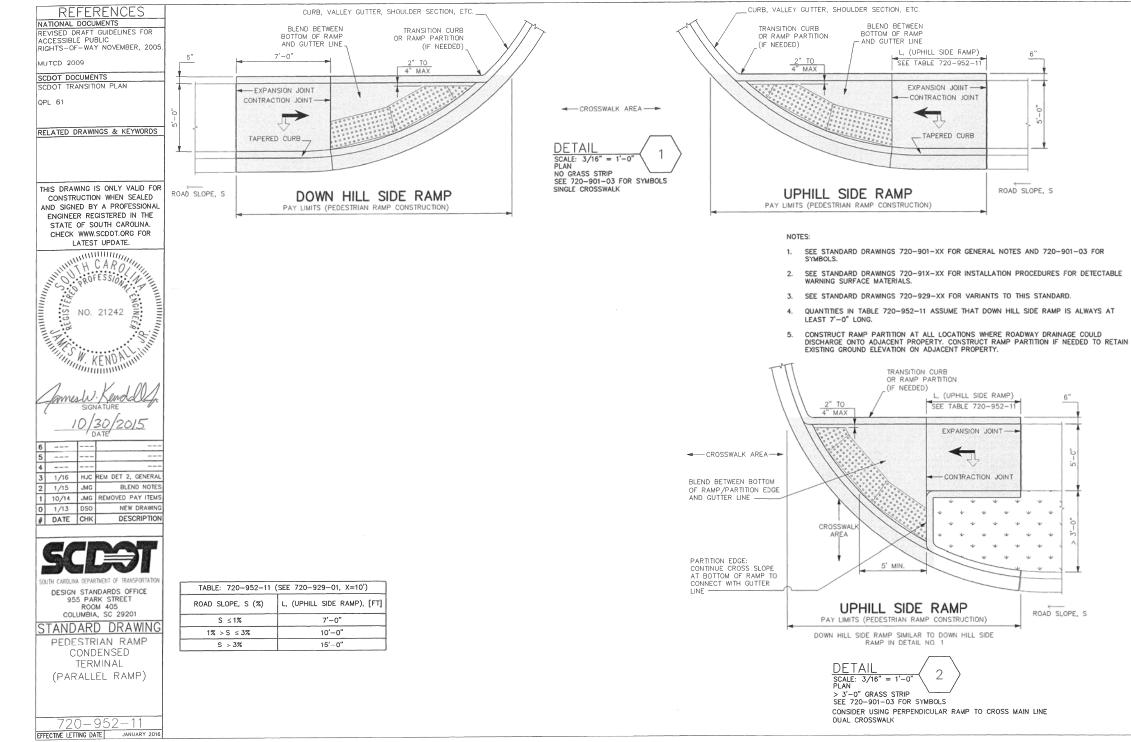




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| -36 | ACCESSIBLE PUBLIC RIGHTS-OF-WAY NOVEMBER, 2005 | | | | | | | |
| -30 | MUTCD 2009 | | | | | | | |
| | SCDOT DOCUMENTS | | | | | | | |
| | SCDOT TRANSITION PLAN | | | | | | | |
| | QPL 61 | | | | | | | |
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| | RELATED DRAWINGS & KEYWORDS 720-929-01 | | | | | | | |
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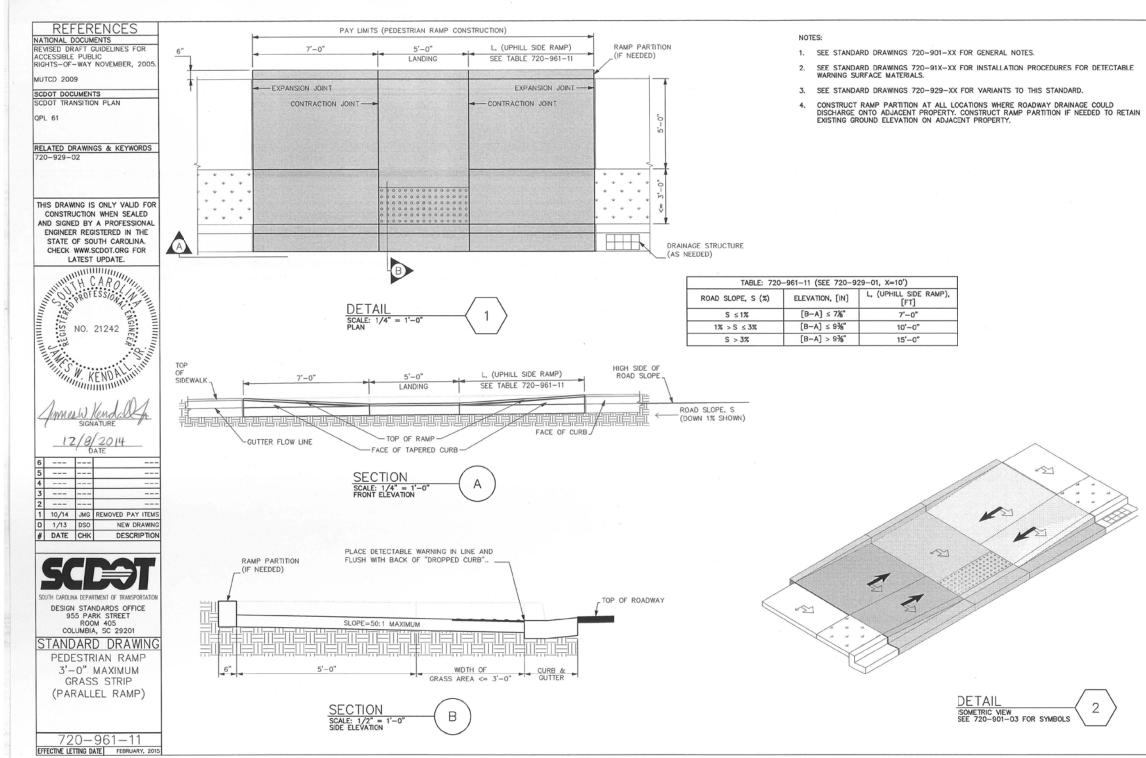
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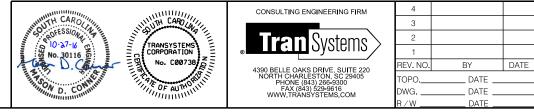


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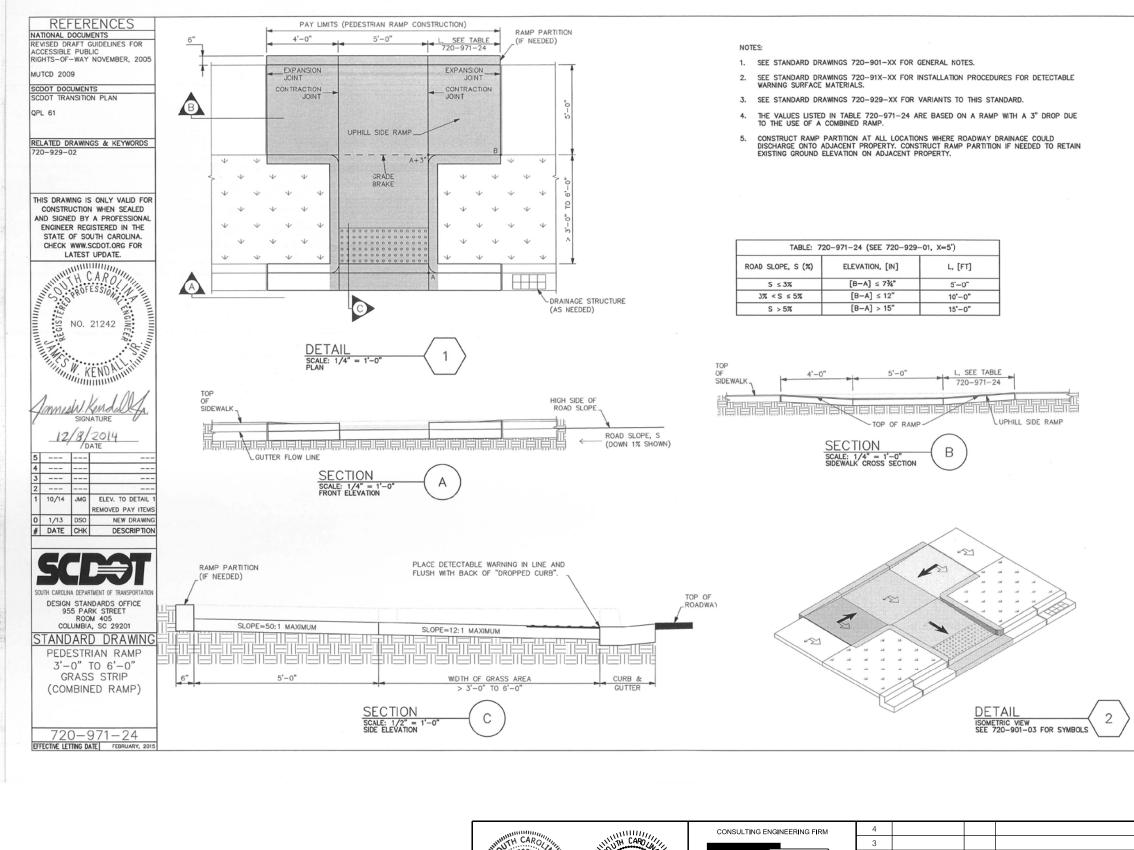
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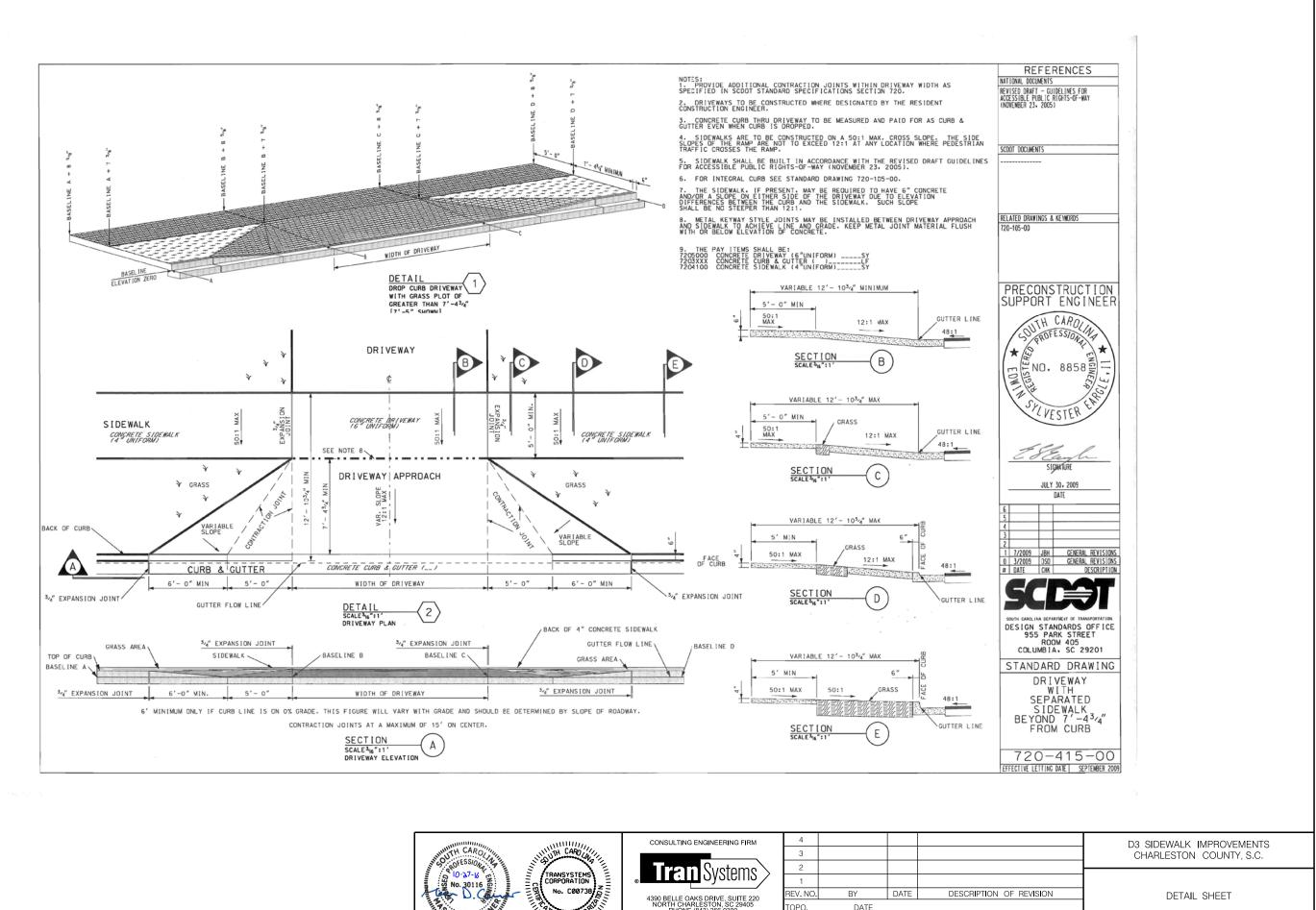
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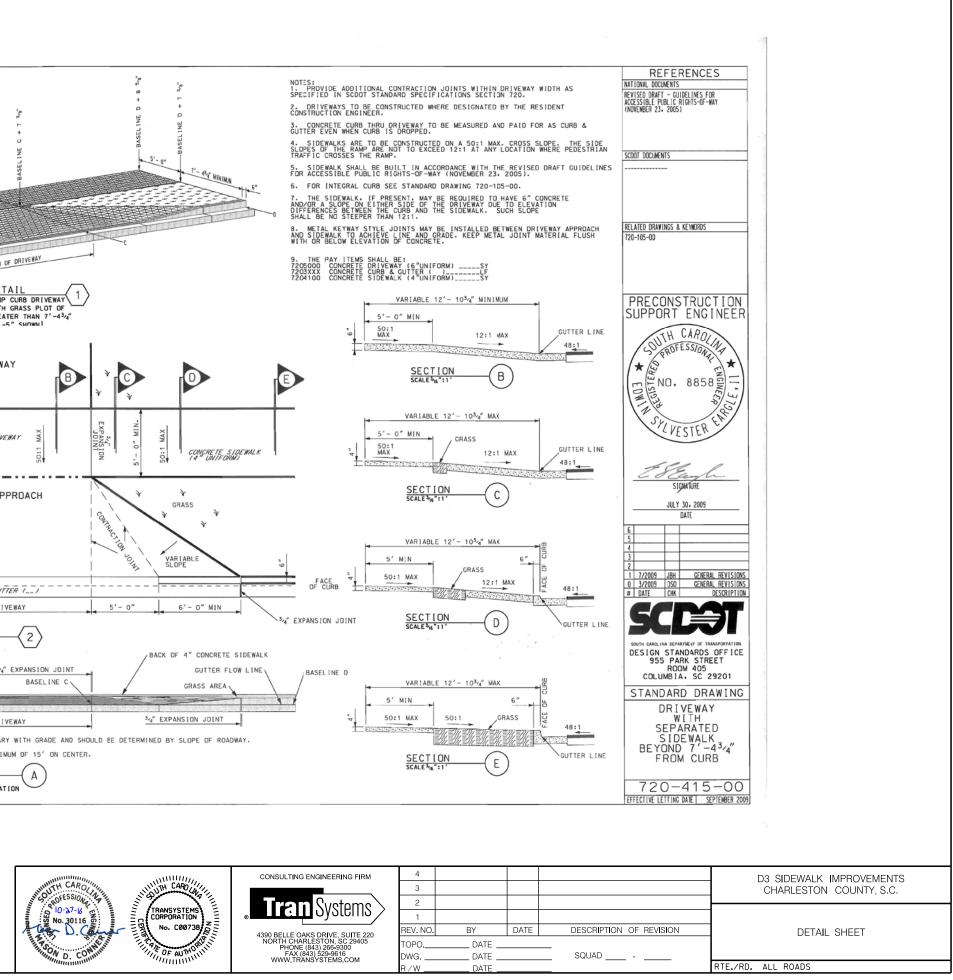
4390 BELLE OAKS DRIVE, SUITE 220 NORTH CHARLESTON, SC 29405 PHONE (843) 266-9300 FAX (843) 229-9616 WWW.TRANSYSTEMS.COM

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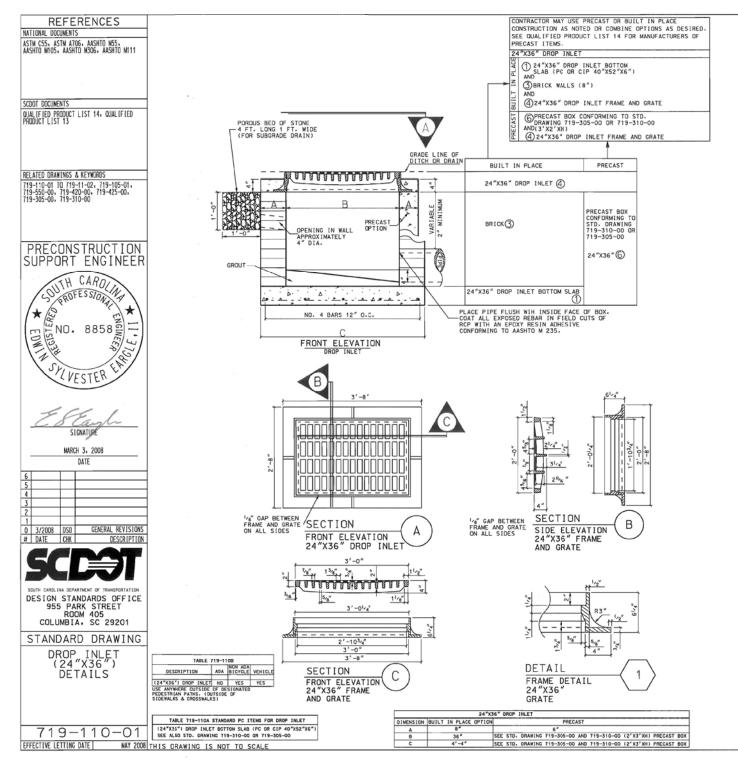
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30. THE PAY ITEM SHALL BE: DROP INLET (24"X36")__ F۵ USE SHEETS 719-110-01 THROUGH 719-110-02 FOR THIS ITEM CONSULTING ENGINEERING FIRM 3 **Tran** Systems` 2 REV. NO. ΒY DATE 4390 BELLE OAKS DRIVE, SUITE 220 NORTH CHARLESTON, SC 29405 PHONE (843) 266-9300 FAX (843) 529-9616 WWW.TRANSYSTEMS.COM

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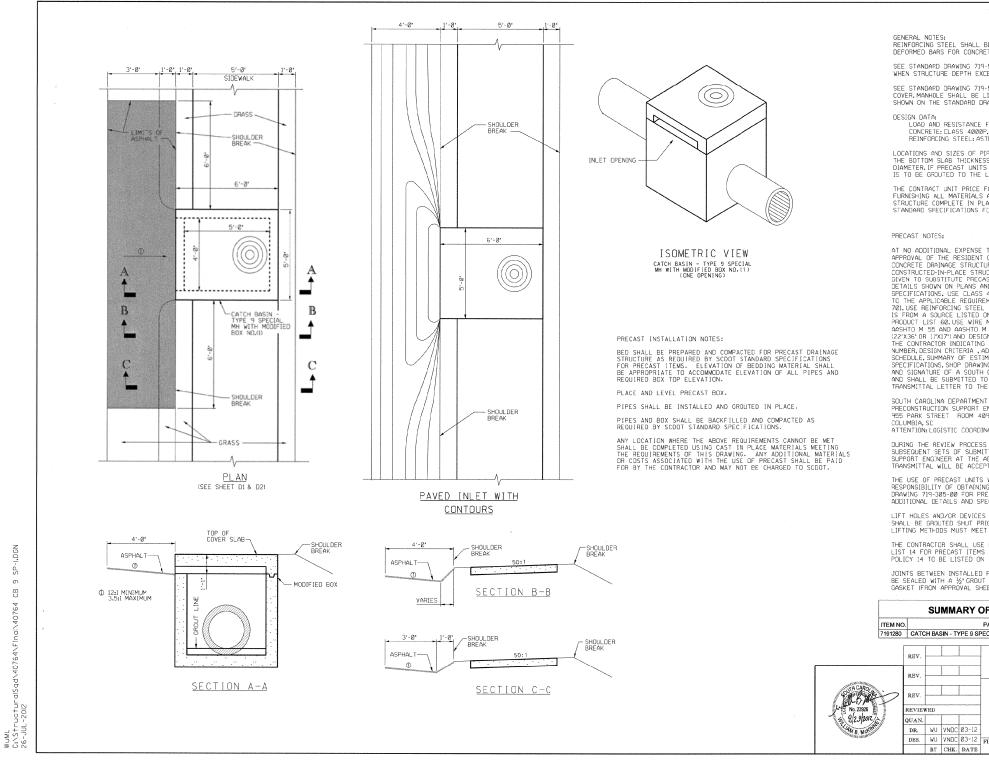
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| NOTES: | | | | | | | |
| 1. SEE 719-105-01 FOR DROP INLET (42X24). FOR BUILT IN PLACE CONSTRUCTION OF THE CATCH BASIN WALLS. EITHER BRICK MASDNRY (WALLS ONLY) OR CIP CLASS 3000 CONCRETE MAY BE USED. FOR PRECAST CONSTRUCTION. A MINIMUM OF CLASS 4000P CONCRETE SHALL BE USED. | | | | | | | |
| CONSTRUCTION, A MINIMUM OF CLASS 4000P CONCRETE SHALL BE USED. | | | | | | | |
| 2. CONCRETE WALLS ARE TO BE 6" THICK WITH A MINIMUM REINFORCING STEEL AREA 0.20 SOUNDE INCRES PER FOOT UNLESS NOTED: FOR BRICK. THE WALLS ARE TO BE 8" THICK CONCRETE BRICK AND SIMILAR SOLID UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTR GRADE_STIL. THE INTERIOR DIMENSIONS ARE TO REMAIN AS SHOWN FOR EITHER TYPE OF | | | | | | | |
| GRADE S-11. THE INTERIOR DIMENSIONS ARE TO REMAIN AS SHOWN FOR EITHER TYPE OF CONSTRUCTION. | | | | | | | |
| 3. THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6″ THICK REINFORCED CONCRETE (CLASS 3000 OR 4000P) WITH A REINFORCING STEEL AREA OF 0.20 SQUARE INCHES PER FOOT. WIRE MESH BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQUARE INCHES PER FOOT. I S MET. | | | | | | | |
| | | | | | | | |
| 4. MORTAR SHALL BE TYPE S OR M. | | | | | | | |
| 5. REINFORCING STEEL SHALL BE ASTM A-706, LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55 AND M. | | | | | | | |
| SEE STANDARD DRAWING 719-550-00 FOR STEPS. WHICH ARE REQUIRED WHEN STRUCTURE DEPTH EXCEEDS 4'-6". | | | | | | | |
| 7. SEE STANDARD DRAWINGS 719-420-00 AND 719-425-00 FOR DEPTHS GREATER THAN 12'. PRECAST CONCRETE CIRCULAR DRAINAGE STRUCTURES ARE REQUIRED WHEN THE DEPTH FROM THE TOP OF TH E GROUD EXCEEDS THE TOR TO FOR TO THE TOP OF THE GROUD EXCEEDS TA'-O'. | | | | | | | |
| | | | | | | | |
| 8. LOCATION AND SIZE OF PIPES ARE SITE SPECIFIC. (SEE DRAINAGE PLANS). THE BOTTOM OF THE CATCH BASIN IS TO BE CROUDED TO THE LOWEST FLOW LINE ELEVATION OF ALL PIPES. BOTTOM SLAB IS CAST IN PLACE WITH PIPES INSTALLED, BOTTOM SLAB THICKNESS MUST BE ACHIEVED BEYOND PIPE OUTSIDE OIAMETER. | | | | | | | |
| | | | | | | | |
| 9. THE FLOOR OF THE BASIN MUST SLOPE IN THE DIRECTION OF THE OUTLET PIPE AS SHOWN AND THE INSIDE OF OUTLET PIPE SHALL BE FLUSH WITH FLOOR OF BASIN. | | | | | | | |
| 10. SEE STANDARD DRAWING 719-305-00 OR 719-310-00 FOR MAXIMUM PIPE DIAMETERS. THE PIPE SIZES SHOWN ARE MAXIMUM FOR BRICK AND PRECAST BOXES WHEN PIPE ENTERS PERPENDICULAR AND AT THE CENTER OF THE BOX WALL. CONTRACTOR SHOLD CONFIRM THAT PIPE USED FITS APPROPRIATELY INTO BOX. | 1 | | | | | | |
| | | | | | | | |
| FRAME AND GRATE NOTES: | | | | | | | |
| 11. ALL CASTINGS SHALL CONFORM TO AASHTO M 105. CLASS 35B AND THE SPECIFICATIONS OF AASHTO M 306 | | | | | | | |
| 12. (0) STEEL GRATES AND FRAME MAY BE USED IN LIEU OF CAST IRON AS LDNG AS THE LDADING (NOTE 124) AND HYDRAULIC REQUIREMENTS ARE MET. AND ARE ON THE DEPARTMENT'S LIST OF APPROVED SUPPLIERS. (OLALIFIED PRODUCT LIST 45) (b) STEEL GRATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111. (c) STEEL GRATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111. (c) STEEL GRATES AND FRAMES SHALL BE OINENSIONED TO BE INTERCHANCEABLE WITH EACH PIECE DF THE CAST IRON GRATE AND FRAME SHORN. STEEL GRATES MUST HAVE POSITIVE MEANS TO BE RETAINED IN THE FRAME. | | | | | | | |
| (b) STEEL GRATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111. (c) STEFL GRATES AND FRAMES SHALL BE DIMENSIONED TO BE INTERCHANGEABLE WITH EACH PIECE | | | | | | | |
| OF THE CAST IRON GRATE AND FRAME SHOWN. STEEL GRATES MUST HAVE POSITIVE MEANS TO BE RETAINED IN THE FRAME. | | | | | | | |
| (4) STRNGTH REQUIREMENTS OF STEEL GRATES AND FRAMES MUST MEET AASHTO M 306 (4) MANGFACTURER OESIRING TO BE PLACED ON THE DEPARTMENT'S GUALIFIED PRODUCT LIST SHOULD CONTACT THE MATERIALS AND RESEARCH ENGINEER FOR PROCEDURES. | | | | | | | |
| 13. THE LONGEST DIMENSIONS OF THE OPENING IN THE IRON GRATE SHOULD BE ORIENTED IN THE | | | | | | | |
| 13. THE LONGEST DIMENSIONS OF THE OPENING IN THE IRON GRATE SHOULD BE DRIENTED IN THE DIRECTION OF FLOW. IF PRACTICABLE. THIS GRATE IS NOT SUITABLE FOR PEDESTRIAN TRAFFIC BECAUSE GRATE OPENINGS EXCEED'2. | | | | | | | |
| 14. AS SHOWN BY THIS DRAWING, THE FRAME IS SET LEVEL, BUT THE RESIDENT CONSTRUCTION ENGINEER MAY SET SAME ON SLOPE AS REQUIRED BY LOCAL DRAINAGE CONDITIONS. | | | | | | | |
| | | | | | | | |
| 15. AFTER THE FRAME IS SET IN ITS FINAL POSITION. IT IS TO BE ENCASED WITH CONCRETE AS SHOWN BY DRAWING. | | | | | | | |
| 16. ALL MANUFACTURING PROCESSES FOR THE FRAME AND GRATE MUST OCCUR IN THE UNITED STATES. | | | | | | | |
| PRECAST NOTES: | | | | | | | |
| 17. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRECAST CONCRETE DRAINAGE BOX OR STRUCTURE FOR ADDITIONAL DETAILS AND SPECIFICATIONS. | | | | | | | |
| 18. LIFT HOLES AND/OR DEVICES MAY BE PLACED AS NECESSRY. ALL LIFT HOLES SHALL BE GROUTED SHUT PRIOR TO COMPLETION OF THE INSTALLATION. ALL LIFTING METHODS MUST MEET | | | | | | | |
| OSHA REGULATIONS. | | | | | | | |
| 19. THE CONTRACTOR SHALL USE A SINGLE SOURCE MANUFACTURER CHOSEN FROM THE LIST ON QUALIFIED PRODUCT LIST 14 FOR PRECAST ITEMS ON THIS DRAWING. | | | | | | | |
| 20. FOLLOW QUALIFIED PRODUCT POLICY 14 IN ORDER TO BE LISTED ON QUALIFIED PRODUCT LIST 14. | | | | | | | |
| 21. CONTRACTOR MAY SUBMIT DESIGN DRAWINGS AND CALCULATIONS FOR MODIFICATIONS TO THIS ITEM ON A PROJECT BY PROJECT BASIS. MODIFICATIONS TO THESE ITEMS WILL NOT BE LISTED ON ANY QUALIFIED PRODUCT LIST. SUBMIT ALL PROPOSALS FOR PROJECT SPECIFIC MODIFICATIONS TO THE RESIDENT ENGINEER FOR REVIEW | | | | | | | |
| LIST. SUBMIT ALL PROPOSALS FOR PROJECT SPECIFIC MODIFICATIONS TO THE RESIDENT ENGINEER FOR REVIEW BY THE ENGINEER OF RECORD. | | | | | | | |
| 22. JOINTS BETWEEN INSTALLED PIECES AND PRECAST ITEMS TO BE PLACED SHALL BE SEALED WITH a $\gamma_2^{\prime\prime}$ GROUT LIFT OR AN APPROPRIATE PLASTIC PREFORMED GASKET (FROM QUALIFIED PRODUCT LIST 13.) | | | | | | | |
| PRECAST INSTALLATION NOTES: | | | | | | | |
| 23. BED SHALL BE PREPARED AND COMPACTED FOR PREAST DRAINAGE STRUCTURE AS REQUIRED BY SCOOT STANDARD SPECIFICATIONS FOR PREAST TIENS. ELEVATION OF BEDING MAIERIAL SHALL GR. APPROPRIATE TO ACCOMMODATE ELEVATION OF ALL LIPES AND REQUIRED BOX TOP | | | | | | | |
| SHALL BE APPROPRIATE TO ACCOMMODATE ELEVATION OF ALL FIPES AND REQUIRED BOX TOP ELEVATION. | | | | | | | |
| 24. PLACE AND LEVEL PRECAST BOX OR SLAB. | | | | | | | |
| 25. PIPES SHALL BE INSTALLED AND GROUTED IN PLACE. | | | | | | | |
| 26. PIPES AND BOX SHALL BE BACKFILLED AND COMPACTED AS REQUIRED BY SCOOT STANDARD SPECIFICATIONS. | | | | | | | |
| 27. ANY LOCATION WHERE THE ABOVE REQUIREMENTS CANNOT BE MET SHALL BE COMPLETED USING CAST IN PLACE MATERIALS METING THE REQUIREMENTS OF THIS STANDARD DRAWING. ANY ADDITIONAL MATERIALS OR COSTS ASSOCIATED WITH THE USE OF PRECAST SHALL BE PAID FOR BY THE CONTRACTOR AND MAY NOT BE CHARGED TO SCODI. | | | | | | | |
| | | | | | | | |
| 28. THE CONTRACT UNIT PRICE FOR DROP INLETS SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS, (BUILT IN PLACE OF PRECAST), AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE | | | | | | | |
| 28. THE CONTRACT UNIT PRICE FOR DROP INLETS SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS. (BUILT IN PLACE OR PRECAST). AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STBUCTURE COMPLETE IN PLACE AS SHOWN. INCLUDING THE CLEB AND GUTTER. IN ACCORDANCE WITH THE SCODT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION). | | | | | | | |
| 29. PRECAST CONCRETE CIRCULAR STRUCTURES (AS SHOWN ON 719-420-00) ARE REQUIRED FOR THE FOLLOWING APPLICATIONS UNLESS PROHIBITED BY THE PLANS OR SPECIAL PROVISIONS. | | | | | | | |
| (a) ON DRAINAGE STRUCTURES WITHA A DEPTH EQUAL TO OR GREATER THAN 12 FEET. | | | | | | | |
| (b) ON DRAINAGE STRUCTURES WHERE THE FLOW LINE ELEVATION OF THE INLET PIPE IS EQUAL TO OR HIGHER THAN THE INSIDE TOP (SOFFIT) OF THE OUTLET PIPE. | | | | | | | |
| (c) AS REQUIRED BY THE PROJECT PLANS. | | | | | | | |
| 30. THE PAY ITEM SHALL BE: DROP INLET (24"X36")EA | | | | | | | |
| UNUT INGET 167 AJD JER | | | | | | | |

| | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
|-------------------------|---|
| DESCRIPTION OF REVISION | DETAIL SHEET |
| SQUAD | |
| | RTE./RD. ALL ROADS |

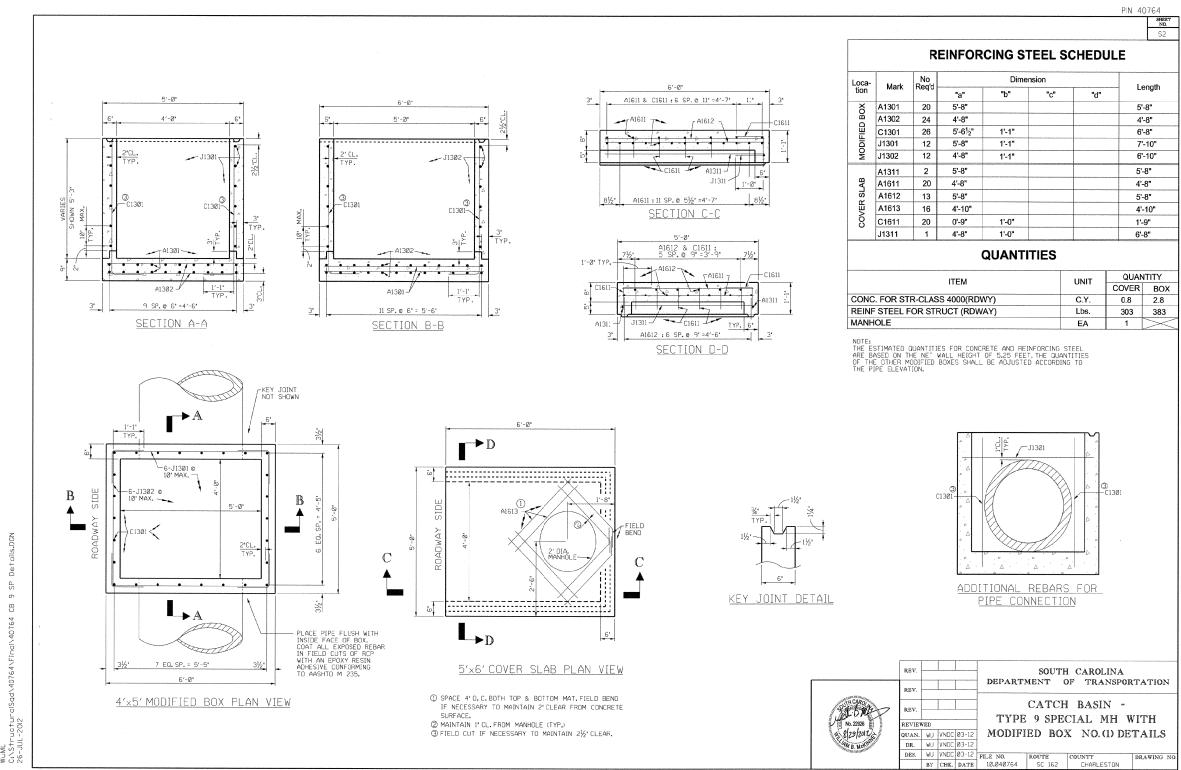


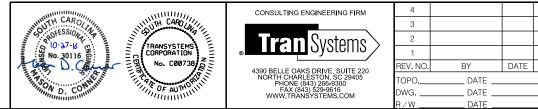
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| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE | SHEET NO. | TOTAL SHEETS |
|--|-----------------------|-------|------------|-------------|------------|--------------|-----------------|
| | 3 | S.C. | CHARLESTON | P306150018 | NO. ALL | NO. DT16 | SHEETS 65 |
| | | | | | | | |
| | | | | | | | |
| PIN 40 | SHEET | | | | | | |
| | NO. S1 | | | | | | |
| L BE ASTM A-706, GRADE 60, LOW-ALLOY STEEL | | | | | | | |
| ICRETE REINFORCEMENT. | | | | | | | |
| 719-550-00 FOR METAL STEPS, WHICH ARE REQUIRED EXCEEDS 4'-6'. | | | | | | | |
| 719-510-00 FOR DETAIL OF MANHOLE CASTING AND 30 Lined up with the interior of the box as) drawing, | | | | | | | |
| CE FACTOR DESIGN (LRFD) 100P,f'c = 4 ksi ASTM A706,fy = 60 ksi | | | | | | | |
| F PIPES ARE SITE SPECIFIC (SEE DRAINAGE PLANS). NESS MUST BE ACHIEVED BEYOND PIPE OUTSIDE VITS ARE USED. THE BOTTOM OF THE MODIFIED BOX HE LOWEST FLOW LINE ELEVATION OF ALL PIPES. | | | | | | | |
| CE FOR CATCH BASIN SHALL INCLUDE THE COST OF NLS AND WORK INCIDENTAL TO CONSTRUCTION OF THE PLACE AS SHOWN AND IN ACCORDANCE WITH THE SOO IS FOR HIGHWAY CONSTRUCTION (LATEST EDITION) | DOT | | | | | | |
| ISE TO THE DEPARTMENT AND SUBJECT TO THE INT CONSTRUCTION ENGINEER, PRECAST REINFORCED UCTURES MAY BE SUBSTITUTED FOR TRUCTURES SHOWN ON PLANS, IF PERMISSION IS ECAST ALTERNATES, ENSURE THAT THEY CONFORM TO S AND THE APPLICABLE PROVISIONS OF THE STANDARD SA AD THE APPLICABLE PROVISIONS OF THE STANDARD USE AND THE APPLICABLE PROVISIONS OF THE STANDARD SEL THAT CONFORMS TO ASTM A-706, DRADE 60, AND 10 ON THE MOST RECENT EDITION OF SCOTO JUALIFIE RE MESH THAT CONFORMS TO THE REQUIREMENTS OF SIGN CALCULATIONS STALL BE SUBMITTED BY ING THE PROJECT FILE NUMBER, PROJECT CONTROL , ADDUATE DIMENSION, REINFORCING STEEL STIMATED DURANTING, REINFORCING STEEL STIMATED DURANTING, SHALL BEAR THE SEAL JTH CARDLING REINFORCENS STALL A COPY OF THE RESIDENT CONSTRUCTION ENGINEER; | | | | | | | |
| MENT OF TRANSPORTATION AT ENGINEER 409 | | | | | | | |
| 409 RDINATOR | | | | | | | |
| ESS SHOP DRAWINGS AND DESIGN CALCULATIONS, ALL BMITTALS SHALL BE SENT TO THE PRECONSTRUCTION 4 ADDRESS ABOVE, FAXES OR ELECTRONIC CCEPTED DURING THE REVIEW PROCESS. | | | | | | | |
| ITS WILL NOT RELIEVE THE CONTRACTOR OF THE INING SATISFACTORY INSTALLATIONS, SEE STANDARD PRECAST CONCRETE DRAINAGE BOX OR STRUCTURE FO SPECIFICATIONS. |)R | | | | | | |
| CES MAY BE PLACED AS NECESSARY. ALL LIFT HOLES PRIOR TO COMPLETION OF THE INSTALLATION. ALL MEET OSHA REGULATIONS. | | | | | | | |
| USE MANUFACTURERS LISTED ON QUALIFIED PRODUCT EMS ON THIS DRAWING, FOLLOW QUALIFIED PRODUCT ON THE QUALIFIED PRODUCT LIST. | | | | | | | |
| ED PIECES AND PRECAST ITEMS TO BE PLACED SHALL OUT LIFT OR AN APPROPRIATE PLASTIC PREFORMED SHEET 69.) | | | | | | | |
| OF ESTIMATED QUANTITIES | | | | | | | |
| PAY ITEM QUANTITY PAY UNI SPECIAL MH WITH MODIFIED BOX NO.(1) | П | | | | | | |
| SOUTH CAROLINA DEPARTMENT OF TRANSPORTA | TION | | | | | | |
| CATCH BASIN - TYPE 9 SPECIAL MH WITH MODIFIED BOX NO.(1) | н | | | | | | |
| γ | WING NO. | | | | | | |

| | D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
|-------------------------|---|
| | |
| DESCRIPTION OF REVISION | DETAIL SHEET |
| SQUAD | |
| | RTE./RD. ALL ROADS |





| DESIGN BY: | | | | | | | |
|---------------------|-----------------------|-------|------------|-------------|-------------------|--------------|-----------------|
| Tran Systems | FED. ROAD DIV. NO. | STATE | COUNTY | PROJECT NO. | ROAD/ROUTE NO. | SHEET NO. | TOTAL SHEETS |
| | 3 | s.c. | CHARLESTON | P306150018 | ALL | DT17 | 65 |
| | | | | | | | |

| | 1'-1" | | 6'-10" |
|----|-------|--|--------|
| | | | 5'-8" |
| | | | 4'-8" |
| | | | 5'-8" |
|)" | | | 4'-10" |
| | 1'-0" | | 1'-9" |
| | 1'-0" | | 6'-8" |

| | UNIT | QUAN | TITY |
|--------|------|-------|----------|
| | ONIT | COVER | BOX |
| RDWY) | C.Y. | 0.8 | 2.8 |
| RDWAY) | Lbs. | 303 | 383 |
| | EA | 1 | $>\!\!<$ |

| | DEPART | | I CAROLINA DF TRANSPOR | TATION |
|----------|-----------------------|-----------------|---------------------------|-------------|
| | | | I BASIN - CIAL MH W | ITH |
| 12 12 | MODIFI | ED BOZ | K NO. (1) DE | TAILS |
| 12 FE | FILE NO. 10.040764 | ROUTE SC 162 | COUNTY CHARLESTON | DRAWING NO. |

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| D3 SIDEWALK IMPROVEMENTS CHARLESTON COUNTY, S.C. |
|---|
| |
| DETAIL SHEET |
| RTE.∕RD. ALL ROADS |
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