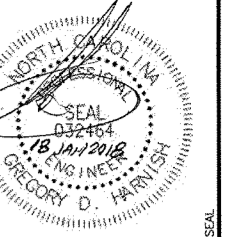


Layout Tab Name: C301 STORM STRUCTURE AND PIPE TABLES, Images: MAP.png; Morrisville aerial.jpg; Morrisville aerial (2).jpg; Morrisville aerial new.jpg; Xrefs: 075356-X.dwg; 075356-TBLK.dwg; 075356-G.dwg; 075356-X-DIGITIZED.dwg; Buildings.dwg; Last Saved By: jczdzinski, 11/8/2017 4:10:01 PM; G:\DE\clients\WaterWalk\075356 Morrisville, NC\4.0 Disciplines\Civil\Cadd\Cad\075356-C301-PIPE TABLES.dwg Plotted By: jczdzinski, Jake Plotted January 17, 2018, 2:49:11 PM

| STORM STRUCTURE TABLE |  |         |   |
|-----------------------|--|---------|---|
| STR ID                | STRUCTURE TYPE   | RIM/TC* | INVERTS   |
| 1.1                   | EXISTING INLET<br>MODIFY EXISTING STRUCTURE TO MEET PROPOSED GRADE. CORE AND CONNECT PROPOSED PIPE TO STRUCTURE. CONTRACTOR SHALL FIELD VERIFY CONDITION OF EXISTING STRUCTURE AND NOTIFY ENGINEER IF CONNECTION IS NOT FEASIBLE PRIOR TO SUBMISSION OF SHOP DRAWINGS AND FABRICATION. | 371.50  | 18" = 367.11 (S)<br>24" = 360.75 (N)  |
| 1.2                   | CONCRETE CATCH BASIN   | 372.64  | 18" = 367.50 (S)<br>18" = 367.50 (N)<br>8" = 369.88 (W)                       |
| 1.3                   | CONCRETE CATCH BASIN   | 372.67  | 18" = 367.80 (S)<br>18" = 367.80 (N)  |
| 1.4                   | CONCRETE CATCH BASIN   | 372.51  | 15" = 368.17 (S)<br>18" = 367.89 (N)<br>15" = 367.89 (W)                      |
| 1.5                   | CONCRETE CATCH BASIN   | 372.99  | 15" = 368.36 (SW)<br>15" = 368.36 (N)<br>8" = 370.29 (W)                      |
| 1.6                   | CONCRETE DROP INLET  | 374.00  | 15" = 369.73 (W)<br>15" = 369.73 (NE)   |
| 1.7                   | CONCRETE DROP INLET  | 374.25  | 15" = 370.75 (E)  |
| 1.8                   | CONCRETE DROP INLET  | 373.50  | 15" = 370.00 (W)<br>15" = 368.27 (E)  |
| 1.9                   | CONCRETE DROP INLET  | 374.73  | 15" = 371.06 (SW)<br>15" = 371.06 (E)   |
| 1.10                  | CONCRETE DROP INLET  | 374.75  | 15" = 371.25 (NE)   |
| 2.0                   | EXISTING INLET<br>MODIFY EXISTING STRUCTURE TO MEET PROPOSED GRADE. CORE AND CONNECT PROPOSED PIPE TO STRUCTURE. CONTRACTOR SHALL FIELD VERIFY CONDITION OF EXISTING STRUCTURE AND NOTIFY ENGINEER IF CONNECTION IS NOT FEASIBLE PRIOR TO SUBMISSION OF SHOP DRAWINGS AND FABRICATION. | 367.55  | 15" = 365.02 (S)<br>15" = 363.35 (E)<br>24" = 362.82 (NW)<br>15" = 364.01 (W) |
| 2.1                   | CONCRETE CATCH BASIN   | 370.97  | 15" = 365.23 (W)<br>15" = 365.23 (N)  |
| 2.2                   | CONCRETE CATCH BASIN   | 372.22  | 15" = 365.36 (W)<br>15" = 365.36 (E)  |
| 2.3                   | CONCRETE CATCH BASIN   | 373.19  | 15" = 367.80 (S)<br>15" = 366.48 (E)<br>15" = 366.48 (NE)                     |
| 2.4                   | CONCRETE DROP INLET  | 374.15  | 15" = 368.26 (N)<br>8" = 370.31 (E)<br>15" = 368.26 (S)                       |
| 2.5                   | CONCRETE DROP INLET  | 374.15  | 15" = 368.63 (N)<br>15" = 368.63 (E)<br>8" = 370.14 (SE)                      |
| 2.6                   | CONCRETE DROP INLET  | 374.95  | 15" = 371.03 (E)<br>15" = 371.03 (W)  |
| 2.7                   | CONCRETE DROP INLET  | 374.95  | 15" = 371.30 (NE)<br>15" = 371.30 (W)   |
| 2.8                   | CONCRETE DROP INLET  | 374.95  | 15" = 371.45 (SW)   |
| 2.9                   | CONCRETE CATCH BASIN   | 367.99  | 15" = 364.27 (W)  |
| 2.10                  | CONCRETE CATCH BASIN   | 368.00  | 15" = 364.50 (E)  |
| 2.11                  | CONCRETE DROP INLET  | 370.05  | 15" = 366.55 (SW)   |

RIM GRADE AS SHOWN IN TABLE AT CURB INLET STRUCTURES IS THE TOP OF CURB ELEVATION.

| PIPE TABLE  |                        |                      |          |        |                          |                 |                   |       |                       |  |
|-------------|------------------------|----------------------|----------|--------|--------------------------|-----------------|-------------------|-------|-----------------------|--|
| PIPE NUMBER | UPSTREAM STRUCT.       | DOWNSTREAM STRUCT.   | DIAMETER | LENGTH | MATERIAL                 | UPSTREAM INVERT | DOWNSTREAM INVERT | SLOPE | DRAINAGE AREA (ACRES) |  |
| 0           | 1.1                    | TO OFFSITE STRUCTURE | 24"      | 20'    | REINFORCED CONCRETE PIPE | 360.75          | 359.72            | 5.03% | 0.378                 |  |
| 1           | 1.2                    | 1.1                  | 18"      | 77'    | REINFORCED CONCRETE PIPE | 367.50          | 367.11            | 0.50% | 0.047                 |  |
| 2           | 1.3                    | 1.2                  | 18"      | 60'    | REINFORCED CONCRETE PIPE | 367.80          | 367.50            | 0.50% | INCLUDED IN PIPE 1    |  |
| 2A          | 1.4                    | 1.3                  | 18"      | 18'    | REINFORCED CONCRETE PIPE | 367.89          | 367.80            | 0.50% | 0.036                 |  |
| 3           | 1.5                    | 1.4                  | 15"      | 39'    | REINFORCED CONCRETE PIPE | 368.36          | 368.17            | 0.50% | 0.304                 |  |
| 4           | 1.6                    | 1.5                  | 15"      | 111'   | REINFORCED CONCRETE PIPE | 369.73          | 368.36            | 1.23% | 0.604                 |  |
| 5           | 1.7                    | 1.6                  | 15"      | 204'   | REINFORCED CONCRETE PIPE | 370.75          | 369.73            | 0.50% | 0.638                 |  |
| 6           | 1.8                    | 1.4                  | 15"      | 75'    | REINFORCED CONCRETE PIPE | 368.27          | 367.89            | 0.50% | 0.054                 |  |
| 7           | 1.9                    | 1.8                  | 15"      | 44'    | REINFORCED CONCRETE PIPE | 371.06          | 370.00            | 2.43% | 0.061                 |  |
| 8           | 1.10                   | 1.9                  | 15"      | 39'    | REINFORCED CONCRETE PIPE | 371.25          | 371.06            | 0.50% | 0.107                 |  |
| 9           | BUILDING #1 ROOF DRAIN | 1.2                  | 8"       | 79'    | PVC                      | 371.00          | 369.88            | 1.42% | INCLUDED IN PIPE 1    |  |
| 10          | BUILDING #2 ROOF DRAIN | 1.5                  | 8"       | 68'    | PVC                      | 371.00          | 370.29            | 1.04% | INCLUDED IN PIPE 3    |  |
| 11          | 2.1                    | 2.0                  | 15"      | 43'    | REINFORCED CONCRETE PIPE | 365.23          | 365.02            | 0.50% | 0.031                 |  |
| 12          | 2.2                    | 2.1                  | 15"      | 25'    | REINFORCED CONCRETE PIPE | 365.36          | 365.23            | 0.50% | 0.087                 |  |
| 13          | 2.3                    | 2.2                  | 15"      | 225'   | REINFORCED CONCRETE PIPE | 366.48          | 365.36            | 0.50% | 0.291                 |  |
| 14A         | 2.11                   | 2.3                  | 15"      | 13'    | REINFORCED CONCRETE PIPE | 366.55          | 366.48            | 0.50% | INCLUDED IN PIPE 13   |  |
| 15          | 2.4                    | 2.3                  | 15"      | 93'    | REINFORCED CONCRETE PIPE | 368.26          | 367.80            | 0.50% | 0.265                 |  |
| 16          | 2.5                    | 2.4                  | 15"      | 75'    | REINFORCED CONCRETE PIPE | 368.63          | 368.26            | 0.50% | 0.538                 |  |
| 17          | 2.6                    | 2.5                  | 15"      | 81'    | REINFORCED CONCRETE PIPE | 371.03          | 368.63            | 2.98% | 0.068                 |  |
| 18          | 2.7                    | 2.6                  | 15"      | 54'    | REINFORCED CONCRETE PIPE | 371.30          | 371.03            | 0.50% | 0.054                 |  |
| 19          | 2.8                    | 2.7                  | 15"      | 30'    | REINFORCED CONCRETE PIPE | 371.45          | 371.30            | 0.50% | 0.078                 |  |
| 20          | 2.9                    | 2.0                  | 15"      | 45'    | REINFORCED CONCRETE PIPE | 364.27          | 363.35            | 2.03% | 0.130                 |  |
| 22          | BUILDING #1 ROOF DRAIN | 2.4                  | 8"       | 66'    | PVC                      | 371.00          | 370.31            | 1.04% | INCLUDED IN PIPE 15   |  |
| 23          | BUILDING #2 ROOF DRAIN | 2.5                  | 8"       | 83'    | PVC                      | 371.00          | 370.14            | 1.04% | INCLUDED IN PIPE 16   |  |
| 24          | 2.0                    | EXISTING INLET       | 24"      | 50'    | REINFORCED CONCRETE PIPE | 362.82          | 361.16            | 3.32% | 0.087                 |  |
| 25          | 2.10                   | 2.0                  | 15"      | 63'    | REINFORCED CONCRETE PIPE | 364.50          | 364.01            | 0.78% | INCLUDED IN PIPE 21   |  |



| REVISION | DATE | No. |
|----------|------|-----|
|          |      |     |
|          |      |     |
|          |      |     |
|          |      |     |

PROJECT No: 075356  
 DATE: 01/24/17  
 DES. JL  
 DR. DH  
 CKD. JG

11301 Carmel Commons Blvd.  
 Suite 300  
 Charlotte, NC 28226  
 704.525.6284  
 FAX: 704.525.8529



**SITE IMPROVEMENT PLANS  
 WATERWALK MORRISVILLE**  
 1012 & 1016 LOWER SHILOH WAY  
 MORRISVILLE, NORTH CAROLINA

**STORM STRUCTURE AND PIPE TABLES**

MORRISVILLE PROJECT #: 17-11000001 FILE #: 17-0001-S/C

Town of Morrisville  
 APPROVED FOR CONSTRUCTION

Signature: *[Signature]* Date: 5/31/18  
 Town of Morrisville, Town Engineer

Engineering: *[Signature]* Date/Initials: *[Signature]*  
 Planning: *[Signature]*  
 Other (specify): *[Signature]*

Signature: *[Signature]* Date: 5/23/18  
 Town of Cary Utilities, Water and Sewer

Engineering Inspection Services must be contacted (919) 463-6907 at a minimum 24 hours prior to the commencement of any construction activities.

SHEET NO.  
**C301**

**BENCHMARK:**  
 THE BASIS OF ELEVATIONS HEREON IS NAVD 88.  
 IRON ROD SET - SEE THE VICINITY MAP FOR LOCATION  
 ELEVATION = 370.66' (371.51' NGVD29)