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STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

| ETHERILL ENGINEERING | Ralei Lice Bus: | nes Franklin Rd. gh, N.C. 27606 nse No. F-0377 919 851 8077 919 851 8107 | , |
|--|-----------------------|--|----|
| TRANSPORTATION PLANNING/DESIGN - BRIDG CIVIL/SITE DESIGN - GIS/GPS - SURVEY/SUE - UTILITIES | • | | 1C |

BR-0062 DESIGNED BY: TWR **TWR**

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC.
PHONE: (919)707-6690

FAX: (919)250-4151

PLANS ONLY

PROJECT REFERENCE NO.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

UTILITY CONSTRUCTION

UTILITIES PLAN SHEET SYMBOLS

PROPOSED WATER SYMBOLS

| Water Line (Sized as Shown) | 12" WL |
|---------------------------------|----------------------------|
| 11½ Degree Bend | |
| 22½ Degree Bend | ······+* |
| 45 Degree Bend | +× |
| 90 Degree Bend | |
| Plug | |
| Tee | -+=+- |
| Cross | ··········· +‡+ |
| Reducer | ······ > |
| Gate Valve | GV |
| Butterfly Valve | BV |
| Tapping Valve | TGV |
| Line Stop | Ls |
| Line Stop with Bypass | LS/BP |
| Blow Off | <u>BO</u> |
| Fire Hydrant | PFH |
| Relocate Fire Hydrant | REH |
| Remove Fire Hydrant | REM FH |
| Water Meter | |
| Relocate Water Meter | RWM |
| Remove Water Meter | REM. WM |
| Water Pump Station | |
| RPZ Backflow Preventer | PRPZ |
| DCV Backflow Preventer | PBFP |
| Relocate RPZ Backflow Preventer | RRPZ |
| Relocate DCV Backflow Preventer | RBFP |
| | |

PROPOSED SEWER SYMBOLS

| Gravity Sewer Line (Sized as Shown) | ■ 12″ SS |
|--|-----------------|
| Force Main Sewer Line(Sized as Shown) | ■12" FSS |
| Manhole (Sized per Note) | |
| Sewer Pump Station ·····PS(SS) | |

PROPOSED MISCELLANOUS UTILITIES SYMBOLS

| Power Pole | δ |
|---|---------------------|
| Telephone Pole | - |
| Joint Use Pole | - |
| Telephone Pedestal | |
| Utility Line by Others (Type as Shown) | PROP O/H POW LINES■ |
| Trenchless Installation | 12" TL INSTALL |
| Encasement by Open Cut | 24" ENCAS BY OC |
| Encasement | 24" ENCASEMENT |

| Thrust Block | · I |
|-------------------|------------|
| Air Release Valve | . AR • |
| Utility Vault | . UV |
| Concrete Pier | . CP |
| Steel Pier | . SP |
| Plan Note | |
| Pay Item Note | NOTE |
| | PAY ITEM |

EXISTING UTILITIES SYMBOLS

| | • |
|--|-------------|
| Power Pole | • |
| Telephone Pole | - |
| Joint Use Pole | - |
| Utility Pole | • |
| Utility Pole with Base | |
| H-Frame Pole | ••• |
| Power Transmission Line Tower | \boxtimes |
| Water Manhole | ₩ |
| Power Manhole | (P) |
| Telephone Manhole | Ō |
| Sanitary Sewer Manhole | ® |
| Hand Hole for Cable | HH |
| Power Transformer | M |
| Telephone Pedestal | T |
| CATV Pedestal | C |
| Gas Valve | ♦ |
| Gas Meter | � |
| Located Miscellaneous Utility Object | 0 |
| Abandoned According to Utility Records | AATI |
| End of Information | E.O. |
| | |

| *Underground | Power Line | P |
|--------------|------------------------------|--------------------|
| *Underground | Telephone Cable | т |
| *Underground | Telephone Conduit | тс |
| *Underground | Fiber Optics Telephone Cable | т го |
| *Underground | TV Cable | ту |
| *Underground | Fiber Optics TV Cable | TV FO |
| *Underground | Gas Pipeline | c |
| Aboveground | Gas Pipeline | A/G Gas |
| *Underground | Water Line | w |
| Aboveground | Water Line | A/G Water |
| *Underground | Gravity Sanitary Sewer Line | ss |
| Aboveground | Gravity Sanitary Sewer Line | A/G Sanitary Sewer |
| *Underground | SS Forced Main Line | FSS |
| Underground | Unknown Utility Line | |
| SUE Test Ho | Le | |
| Water Meter | | 0 |
| Water Valve | | ⊗ |
| Fire Hydran | t | ₽ |
| Sanitary Sev | ver Cleanout | \oplus |
| | | |

| *For Existing Utilities | |
|--|--|
| Utility Line Drawn from Record | |
| Designated Utility Line(Type as Shown) | |