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CONSTRUCTION PLANS FOR CITY OF ROCKWALL, TX

16-INCH WATERLINE RELOCATION FM 3097 (HORIZON ROAD) CIP 2009-015



MAYOR: JIM PRUITT

PLACE 1 - DAVID WHITE PLACE 2 - JOHN HOHENSHELT PLACE 3 - KEVIN FOWLER PLACE 4 - DENNIS LEWIS PLACE 5 - SCOTT MILDER PLACE 6 - MIKE TOWNSEND, MAYOR PRO-TEM

CITY MANAGER

RICK CROWLEY

pw:/Active Projects/CORK1600531.00/8.00 Plans and Drawings/8.30 Cut Sheets/CORK1600531 - G01.dgn





GENERAL NOTES

1. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL BE FAMILIAR WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS, THE PLANS (INCLUDING ALL NOTES), THE CITY OF ROCKWALL SPECIFICATIONS AND ANY OTHER APPLICABLE STANDARDS OR SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.

2. CONTRACTOR SHALL HAVE IN POSSESSION, PRIOR TO CONSTRUCTION. ALL NECESSARY PERMITS. AND LICENSES. ETC. CONTRACTOR SHALL HAVE A LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS ON-SITE AT ALL TIMES.

3. ALL WORK SHALL CONFORM TO THE CITY OF ROCKWALL SPECIFICATIONS AND STANDARDS.

4. IN THE EVENT AN ITEM IS NOT COVERED IN THE CITY OF ROCKWALL CONSTRUCTION STANDARDS AND SPECIFICATIONS, THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 3rd Ed. SHALL APPLY WITH CONCURRING NOTIFICATION TO THE CITY ENGINEER AND PROJECT ENGINEER. THE CITY ENGINEER SHALL HAVE THE FINAL DECISION ON ALL CONSTRUCTION MATERIALS, METHODS, AND PROCEDURES.

5. CONSTRUCTION INSPECTION WILL BE PERFORMED BY REPRESENTATIVES OF THE OWNER, ENGINEER, CITY, GEOTECHNICAL ENGINEER, AND REVIEWING AUTHORITIES AND AGENCIES. UNRESTRICTED ACCESS SHALL BE PROVIDED TO THEM AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND SCHEDULING REQUIRED INSPECTIONS. TESTING SAMPLES SHALL BE COLLECTED AND PROCESSED BY CERTIFIED TECHNICIANS.

6. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS ONTO DEVELOPED OR UNDEVELOPED AREAS WILL BE ALLOWED. ANY DAMAGE RESULTING THERE FROM SHALL BE CONTRACTOR'S RESPONSI BILITY TO REPAIR.

7 IT WILL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES FOR LINE LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL ASSUME FULL LIABILITY TO THOSE COMPANIES FOR ANY DAMAGES CAUSED TO THEIR FACILITIES.

DI GTESS	1-800-DIG-TESS
ATMOS ENERGY	1-817-215-4303
ONCOR ELECTRIC DELIVERY	214-486-3555
AT & T	972-771-7700
CITY OF ROCKWALL	972-771-7730
CHARTER COMMUNICATIONS	972-771-7700

8. TRENCH SAFETY DESIGN WILL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR. CONTRACTOR SHALL SUBMIT A TRENCH SAFETY DESIGN APPROVED BY A PROFESSIONAL ENGINEER TO THE CITY OF ROCKWALL ENGINEERING DEPARTMENT FOR REVIEW PRIOR TO THE START OF ANY UNDERGROUND UTILITY CONSTRUCTION.

9. THE CONTRACTOR SHALL PROVIDE A CLEAR AND SAFE ROUTE FOR PEDESTRIANS THROUGHOUT THE DURATION OF CONSTRUCTION.

OFFSITE EASEMENTS PRIOR TO COMMENCEMENT OF OFFSITE AND RELEVANT ON-SITE CONSTRUCTION ACTIVITIES.

GENERAL NOTES

10. THE CONTRACTOR SHALL PROTECT THE EXISTING TREES (INCLUDING THE AREA UNDER THE DRIP LINES OF TREES), BUSHES, LANDSCAPING PLANTS, SPRINKLERS, AND LAWNS UNLESS NOTED OTHERWISE ON THE CONSTRUCTION DRAWINGS. ANY DAMAGE TO THE EXISTING TREES. BUSHES, LANDSCAPING PLANTS, SPRINKLERS, AND LAWNS CAUSED BY THE CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF ROCKWALL AT THE CONTRACTOR'S EXPENSE.

11. CONTINUOUS ACCESS FOR MAIL SERVICE SHALL BE PROVIDED DURING CONSTRUCTION.

12. DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL OFFSITE EASEMENTS PRIOR TO COMMENCEMENT OF OFFSITE AND RELEVANT ON-SITE CONSTRUCTION ACTIVITIES.

STANDARD GRADING I MPROVEMENTS NOTES

1. EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY VARIOUS OWNERS OF THE FACILITIES. THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED, AND TO NOTIFY THE ENGINEER PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGES BY THE CONTRACTOR TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

2. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL PAY ALL COSTS IN CONNECTION WITH THE ALTERATION OF RELOCATION OF THE FACILITIES.

3. GRADING CONTRACTOR SHALL COOPERATE AND WORK WITH ALL OTHER CONTRACTORS PERFORMING WORK NEAR THIS PROJECT TO INSURE PROPER AND TIMELY COMPLETION OF THIS PROJECT.

4. CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY EXISTING STRUCTURES, FENCES, DEBRIS OR TREES REMAINING ON SITE. COORDINATE WITH CITY OF ROCKWALL.

5. CONTRACTOR TO COMPLY WITH ALL STATE AND LOCAL SEDIMENT CONTROL AND AIR POLLUTION ORDINANCES OR RULES.

6. A QUALIFIED SOILS LABORATORY SHALL DETERMINE THE SUITABILITY OF THE EXISTING SUBGRADE AND EXISTING ON-SITE MATERIAL PRIOR TO BEGINNING ANY BACKFILLING OPERATI ON

7. ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT EROSION. IN THE EVENT THAT SIGNIFICANT EROSION OCCURS AS A RESULT OF CONSTRUCTION THE CONTRACTOR SHALL RESTORE THE ERODED AREA TO ORIGINAL CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EROSION CONTROL IN ACCORDANCE WITH THE EROSI ON CONTROL PLAN PREPARED BY THE ENGINEER AND REQUIRED BY THE CITY OF ROCKWALL'S CODE OF ORDI NANCES.

8. ALL DI STURBED AREAS TO BE HYDROMULCHED.

9. UNSUITABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DI SPOSED OF OFF-SITE BY GRADING CONTRACTOR.

STANDARD GRADING I MPROVEMENTS NOTES

10. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.

11. BEFORE ANY MACHINE WORK IS DONE. CONTRACTOR SHALL STAKE OUT AND MARK THE PIPELINE ALIGNMENT. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN PLACED TO THE OWNER'S SATI SFACTI ON.

12. THE CONTRACTOR SHALL RESTORE ALL AREAS DI STURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER.

13. TEMPORARY IRRIGATION IS REQUIRED FOR VEGETATING & ESTABLI SHI NG NON-I RRI GATED AREAS.

14. CONTRACTOR SHALL ESTABLISH PROTECTIVE FENCING AROUND TREES PRIOR TO . CONSTRUCTION. CONTRACTOR SHALL MAINTAIN FENCE DURING CONSTRUCTION. THERE SHALL BE NO PARKING OF VEHICLES OR EQUIPMENT AT ANYTIME IN OR ADJACENT TO ANY EXISTING TREES.

STANDARD EROSI ON CONTROL I MPROVEMENTS NOTES

1. EVERY SOLL DISTURBING ACTIVITY SHALL HAVE AN ACCOMPANYING EROSION CONTROL PLAN (ECP), AND EITHER CONSTRUCTION SITE NOTICE (CSN) FOR THOSE ACTIVITIES DISTURBING MORE THAN 1 BUT LESS THAN 5 ACRES, OR NOTICE OF INTENT (NOI) FOR THOSE ACTIVITIES DISTURBING 5 OR MORE ACRES. A COPY OF THE APPROPRIATE CSN OR NOI SHALL BE PROVIDED TO THE CITY OF ROCKWALL PRIOR TO ISSUANCE OF A GRADING PERMIT. THE ECP SHALL BE PROVIDED TO ROCKWALL'S EROSION CONTROL OFFICER PRIOR TO GRADI NG.

2. THE CSN OR NOL SHALL BE POSTED IN A LOCATION. VIEWABLE TO THE PUBLIC UNTIL CONSTRUCTION IS COMPLETE AND NOTICE OF TERMINATION (NOT) THE STORM WATER POLLUTION SUBMITTED. PREVENTION PLAN (SWP3) SHALL BE READILY AVAILABLE FOR REVIEW BY FEDERAL, STATE, OR LOCAL OFFICIALS. ALL STATE AND FEDERAL FEES ARE RESPONSIBILITY OF THE CONTRACTOR.

3. NO SOLL DISTURBING ACTIVITIES WILL OCCUR PRIOR TO THE SWP3, ECP, AND ASSOCIATED BEST MANAGEMENT PRACTICES (BMP) BEING FULLY IMPLEMENTED. AND THEN INSPECTED BY CITY OF ROCKWALL.

4. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF ROCKWALL'S STORM WATER ORDINANCE, THE CURRENT NCTCOG BEST MANAGEMENT PRACTICES MANUAL, THE TPDES GENERAL CONSTRUCTION PERMIT TXR150000 AND ANY OTHER STATE AND/OR LOCAL REGULATIONS.

5. THE SITE SHALL BE REVIEWED BY THE OPERATOR OR HIS REPRESENTATIVE WEEKLY, AND AFTER ANY MAJOR STORM. ADJUSTMENTS/REPAIRS TO THE EROSION CONTROL MEASURES WILL BE MADE AS NEEDED. THE CONTRACTOR SHALL NOTIFY ROCKWALL'S ECO OF ADJUSTMENTS/REPAIRS SUCH THAT THE ADJUSTMENTS/REPAIRS MAY BE INSPECTED AND APPROVED BY THE CITY OF ROCKWALL.

6. CONTRACTOR SHALL VEGETATE ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF GRADING ACTIVITIES. FINAL ACCEPTANCE OF A SITE SHALL BE CONTINGENT UPON VEGETATION BEING ESTABLISHED IN ALL DISTURBED AREAS. AND PROPER NOTICE OF TERMINATION SUBMITTED TO THE STATE. A COPY OF THE NOT SHALL BE PROVIDED TO THE CITY OF ROCKWALL.

STANDARD WATER I MPROVEMENTS NOTES

1. ALL 6- NCH, 8- NCH AND 12- NCH WATER MAINS SHALL BE AWWA C900 PVC PIPE. ALL WATER LINE FITTINGS TO BE DUCTILE IRON. ALL 6"-12" VALVES SHALL BE AWWA APPROVED RESILIENT WEDGE GATE VALVES. ALL 16" VALVES SHALL BE BUTTERFLY VALVES, MINIMUM COVER FOR ALL PIPE SHALL BE 4.0 FEET.

2. WATER LINES SHALL HAVE BLUE EMS LOCATOR PADS AT EVERY 250', CHANGE IN DIRECTION, VALVE AND SERVICE.

3. BOLTS AND NUTS FOR MECHANICAL JOINTS WILL BE OF A HIGH-STRENGTH LOW-ALLOY CORROSION RESISTANT STEEL CONFORMING TO ASTM A325 (TYPE 3).

4. ALL FITTINGS MUST BE RESTRAINED.



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A. GENERAL SITE DATA

1. PROJECT LIMITS: ____ Approximately 0.1 acres of Brockway Branch

2. PROJECT SITE MAPS:

* Project Location Map: Shown on Title Sheet

- * Drainage Patterns: N/A
- * Approx. Slopes Anticipated After Major Gradings and Areas of Soil Disturbance:
 * Major Controls and Locations of Stabilization Practices: C-1 and C-2
- * Project Specific Locations: Off-site waste, borrow, or storage areas are not part of thi§SRkart. C-1)
- * Surface Waters and Discharge Locations: N/A

3. PROJECT DESCRIPTION:

Construction of a 16-inch Water Line and site grading

4. FOR MAJOR SOIL DISTURBING ACTIVITIES SEQUENCE OF EVENTS:

- 1. Install controls down-slope of work area and initiate inspection and maintenance activities.
- 2. Begin phased construction with interim stabilization practices. Adjust erosion and sedimentation controls during construction to meet requirements and changing conditions and as directed/ approved by the City, County, and/or the Engineer.
- 3. Major soil disturbing activities may include but are not limited to: site preparation, cut and/or fill to improve site, install site utilities, final grading and placement of fill topsoil and landscaping

5. EXISTING AND PROPOSED CONDITIONS:

Description of existing vegetative cover:

Percentage of existing vegetative cover: (99%)

Existing vegetative cover: (mark one) X Thick or uniformly established ____ Thin and Patchy

____ None or minimal cove

Description of soils: (Provide classification and description of soils)

Site Acreage: 0.1 acres Acreage disturbed: 0.1 acres Site runoff coefficient (pre-construction): 0.40 Site runoff coefficient (post-construction): 0.40

6. RECEIVING WATERS:

Brockway Branch

8. ENDANGERED SPECIES, DESIGNATED CRITICAL HABITAT AND HISTORIC PROPERTY:

No Endangered Species, Designated Critical Habitat or Historic Property has been found on this project site.

B. BEST MANAGEMENT PRACTICES

General timing or sequence for implementation of BMPs shall be as required and/or as directed/approved by the Engineer to provide adequate controls. BMPs shown on plan sheets are to be considered "proposed" unless/until install date is shown. BMPs are to reduce sediments from road construction activities. 1. <u>SOIL STABILIZATION PRACTICES:</u> (Select T = Temporary or P = Permanent, as applicable)

FLEXIBLE CHANNEL LINER

P SOIL RETENTION BLANKET

____ COMPOST MANUFACTURED TOPSOIL

_____ PRESERVATION OF NATURAL RESOURCES

P SEEDING _____ MULCHING (Hay or Straw) _____ BUFFER ZONES ____ COMPOST/MULCH FILTER BERM

____ OTHER: (Specify Practice) SODDING 2. <u>STRUCTURAL PARACTICES:</u> (Select T = Temporary or P = Permanent, as applicable)

- T SILT FENCES
- HAY BALES
- DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR, OR PERIMETER SWALES DIVERSION DIKE AND SWALE COMBINATIONS
- PIPE SLOPE DRAINS
- PAVED FLUMES ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER MATTING AT CONSTRUCTION EXIT
- CHANNEL LINERS
- _____ SEDIMENT TRAPS
- SEDIMENT BASINS ____ STORM INLET SEDIMENT TRAP
- ___ STONE OUTLET STRUCTURES
- CURBS AND GUTTERS
- STORM SEWERS
- ____ VELOCITY CONTROL DEVICES OTHER: (Specify Practice)

3. STORM WATER MANAGEMENT:

The proposed facility was designed in consideration of hydraulic design standards to convey stormwater in a manner that is protective of public safety and property. The control of erosion from the facility is inherent to the design. Additional factors affecting post-construction stormwater at the project location include: (mark all that apply)

- <u>X</u> Existing or new vegetation provides natural filtration.
- X The design includes provisions for permanent erosion controls
- provided by strategically placed pervious and impervious surfaces. Project includes permanent sedimentation controls (other than grass).
- Velocities do not require dissipation devices.
- <u>X</u> Velocity-dissipation devices included in the design.
- ____ Other :__

4. NON-STORM WATER DISCHARGES:

Off-site discharges are prohibited except as follows:

- 1. Discharges from fire fighting activities and/or fire hydrant flushings.
- 2. Vehicle, external building, and pavement wash water where detergents and soaps are not used and where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed).
- 3. Plain water used to control dust.
- 4. Plain water originating from potable water sources.
- 5. Condensation from air conditioners.
- 6. Uncontaminated groundwater, spring water or accumulated stormwater.
- 7. Foundation or footing drains where flows are not contaminated with process
- materials such as solvents.

8 Other

Concrete truck wash water discharges on the site should be prohibited or minimized. If allowed by the Engineer, they must be managed in a manner so as not to contaminate surface water. They must not be located in areas of concentrated flow. Concrete truck wash-out locations must be shown on the Site Layout and included in the inspections.

Hazardous material spill/leak discharges of hazardous substances shall be prevented or minimized. At a minimum, this includes asphalt products, fuels, oils, lubricants, solvents, paints, acids, concrete curing compounds and additives and chemical additives for soil stabilization. BMPs shall be implemented to the storage areas of these products. All spills must be cleaned up by the Contractor, disposed properly and reported to the Engineer. The Contractor is to immediately report any release at or above the reportable quantity during a 24 hour period to the National Response Center at 1-800-424-8802.

1. MAINTENANCE:

For areas of the construction site that have not been finally stabilized, areas used for storage of materials, structural control measures, and locations where vehicles enter or exit the site, personnel provided by the permittee and familiar with the SW3P must inspect disturbed areas at least once every fourteen (14) calendar days and within twenty four (24) hours of the end of a storm event of 0.5 inches or greater. As an alternative to the above-described inspection schedule of once every fourteen (14) calendar days and within twenty four (24) hours of a storm event of 0.5 inches or greater, the SW3P may be developed to require that these inspections will occur at least once every seven (7) calendar days. If this alternative schedule is developed, the inspection must occur on a specifically defined day, regardless of whether or not there has been rainfall event since the previous inspection. An Inspection and Maintenance Report shall be prepared for each inspection and the controls shall be revised on the SW3P within seven (7) calendar days following the inspection.

3. WASTE MATERIALS:

All non-hazardous municipal waste materials such as litter, rubbish, trash and garbage located on or originating from the project shall be collected and stored in a securely lidded metal dumpster, provided by the Contractor, at a frequency sufficient to minimize off-site impacts. The dumpster shall be emptied as necessary or as required by local regulation and the trash shall be hauled to an appropriately permitted disposal facility. The burying of non-hazardous municipal waste on the project shall not be permitted. Construction material waste sites, stockpiles and haul roads shall be constructed in a manner that will minimize and control the amount of sediment that may enter receiving waters. Construction material waste sites shall not be located in any wetland, water body or stream bed. Construction staging areas and vehicle maintenance areas shall be constructed in a manner to minimize the runoff of pollutants.

5. SANITARY WASTE:

6. OFFSITE VEHICLE TRACKING:

Off-site vehicle tracking of sediments and the generation of dust must be minimized. Excess sediments on road shall be removed by the Contractor on a regular basis as directed/approved by the Engineer.

Other permits on the project: City Grading Permit (Contractor to obtain) TCEQ NOI & NOT (Contractor to obtain)

7. PERMITS:

C. OTHER REQUIREMENTS & PRACTICES

All erosion and sediment controls shall be maintained in good working order by the contractor. If a repair is necessary, it shall be performed before the next anticipated storm event but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from equipment. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. Disturbed areas on which construction activities have ceased, temporarily or permanently, shall be stabilized within 14 calendar days unless they are scheduled to and do resume within 21 calendar days. The areas adjacent to creeks and drainageways shall have priority followed by devices protecting storm sewer inlets.

4. HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

As a minimum, any products in the following categories are considered to be hazardous: paints, acids, solvents, asphalt products, chemical additives for soil staibilization and concrete curing compounds or additvives. In the event of a spill which may be hazardous, the spill coordinator shall be contacted immediately.

All sanitary waste shall be collected from the portable units, as necessary or as required by local regulation, by a licensed sanitary waste management contractor

No solid material shall be discharged to US Army Corps of Engineers USACE) juri optional waters without a Section 404 Permit. When the placement of such material activity of the shall be cleared from waterways as soon as practicable.



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EROSION BLANKETS & TURF REINFORCEMENT MATS SLOPE PROTECTION

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NOTES:

1. PIPE MAY NOT BE FILLED ABOVE SPRING LINE UNTIL LOWER PORTION IS COMPACTED TO 95% STANDARD PROCTOR DENSITY. EMBEDMENT BELOW PIPE SHALL BE COMPACTED BEFORE PIPE IS LAID. STANDARD PROCTOR BELL SHALL BE DUG OUT.

> 2. TRENCHES SHALL BE TESTED AT THE RATE OF ONE TEST PER 300 LINEAR FEET PER 8 INCH LIFT (LOOSE). TESTS SHALL BE STAGGERED SO THAT TESTS OF ADJACENT LIFTS ARE NOT DIRECTLY OVER THAT OF THE PREVIOUS LIFT. IF THE DISTANCE BETWEEN MANHOLES EXCEEDS 300 FT., A MINIMUM OF TWO TESTS SHALL BE REQUIRED.

3. EMBEDMENT WITHIN RIGHT-OF-WAY WILL BE USED WHEN INSTALLING UTILITY LINES WITHIN STREET RIGHT-OF-WAYS, AND UNDER PAVEMENT, ALL OTHER INSTALLATION LOCATIONS, SUCH AS IN EASEMENTS OR CROSS COUNTRY LOCATIONS WILL COMPLY WITH STANDARD EMBEDMENT DETAILS.

4. CONTRACTOR SHALL FOLLOW NCTCOG 3rd EDITION WITH CITY REVISIONS



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