



Public Utilities

**98th Avenue North and 99th Avenue North
Public Utilities Renewal**

Bid Submittal

Prepared By:



3800 Via Del Rey
Bonita Springs, FL 34134

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SECTION I

PROJECT DESCRIPTION & SCHEDULE

98th Avenue North and 99th Avenue North Public Utility Renewal

PROJECT DESCRIPTION

This project consists of the replacement of aging infrastructure along 98th Avenue North and 99th Avenue North in Naples Park from Vanderbilt Drive to Tamiami Trail/US 41. The project generally consists of the following major components:

- Water Infrastructure Improvements
 - Removal and disposal of existing 6-inch asbestos concrete water main piping and associated appurtenances.
 - Installation of new 8-inch water main piping and associated appurtenances.
 - New fire hydrants, gate valves, and sampling points.
 - Installation of new water services and meter boxes and the relocation of water meters and backflow preventers as depicted in the drawings.

- Wastewater Infrastructure Improvements
 - Removal and disposal of existing vitrified clay gravity sewer pipe, concrete manholes, and associated service laterals.
 - Installation of new 8-inch PVC gravity sewer pipe.
 - Installation of precast Reinforced Polymer Concrete manholes.
 - Replacement/relocation of all existing sanitary sewer service laterals and property line cleanouts.

- Stormwater Infrastructure Improvements
 - Removal and disposal of various sized corrugated metal pipe, reinforced concrete pipe, and corrugated plastic pipe and drainage structures.
 - Installation of perforated stormwater piping in a gravel water quality trench.
 - Installation of HDPE and RCP stormwater piping.
 - Installation of catch basins, sediment catch basins, catch basins with weir plates, junction basins, inline yard drains, and mitered end sections.
 - Regrading swales

- Driveway Improvements
 - All driveways shall be restored to their previous condition or better, according to specifications, plans, and Collier County standards.

- Roadway Improvements
 - Rebuilding of the roadways, including new subgrade, new base, and new asphalt.

All construction shall be in accordance with the construction plans, Roadway and Traffic Standards (latest edition), Collier County Development Standards and Specifications and Collier County Water-Sewer District Utilities Standards Manual, the State of Florida Department of Transportation (FDOT) standards (latest edition). In the event of conflict between standards/requirements and/or these specifications and drawings, the more stringent requirement shall apply.

SCHEDULE

Time is of the essence for this project and disruption to homeowners must be kept minimal. The County has a right to request a detailed plan from the contractor if the contractor is not anticipated to finish the project within the contract time. The project will commence upon notice to proceed (NTP) from the County and be in effect until completion of the project as follows.

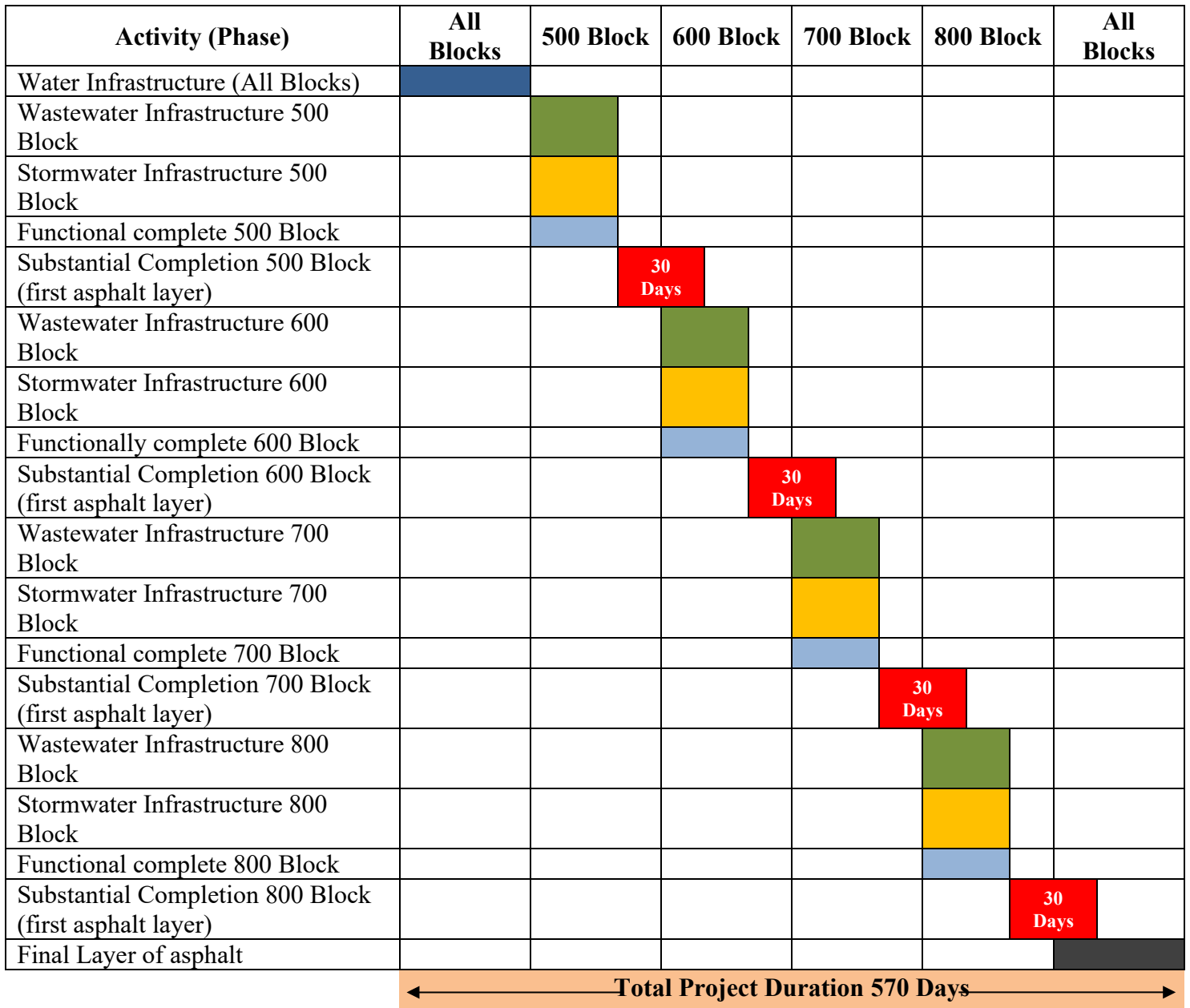
- Substantial completion must be reached for all aspects of the project no later than five hundred and ten (510) days from the issued Notice to Proceed. The entire project shall not be considered substantially completion until all construction is complete for the intended use, including all restoration (including sod), less final lift of roadway asphalt and associated roadway striping.
- Final completion must be reached for all aspects of the project no later than sixty (60) days from substantial completion.

SECTION II

PROJECT PHASING

98th Avenue North and 99th Avenue North Public Utility Renewal

The project shall be phased to minimize impacts to residents along 98th Avenue North and 99th Avenue North per the description in this section. The Contractor shall work simultaneously on each Avenue (98th and 99th Avenues) in phases as defined below. In general, installation of the new water main from Vanderbilt Drive to US 41, all short and long side services, and connections must be completed first. Once the water main has been cleared, each new service is placed into service on the new water main, and temporary asphalt patching has been placed on all long side service, roadway, and driveway cuts, construction of the stormwater and sewer may begin, but will be limited to one block at a time beginning at Vanderbilt Drive to 6th Street; then 6th Street to 7th Street; then 7th Street to 8th Street; and then 8th Street to US41. The Contractor will not be allowed to progress from one block to another until the proposed improvements are Functionally Complete (installed, backfilled, tested, cleared for use, and placed into service) and rough grading is complete. The Contractor shall have 30 calendar days to complete the right-of-way (ROW) to ROW restoration including landscape/sod, roadway base, lime rock, and first lift of asphalt on each block once the block is deemed functionally complete. If not complete in 30 calendar days, the Contractor shall cease all work on the Avenue except for restoration work and payment for work other than restoration will not be approved. Changes/alterations to this phasing plan shall not be allowed without the written approval of the County's PM.



Phase 1:

- Phase 1: Water main installation on 98th Avenue North, 99th Avenue North, and 7th Street from Vanderbilt Drive to US 41. This Phase shall include:
 - Proposed water main, all water services (short and long), meters, meter boxes, and backflow preventers, valves, fire hydrants, ARVs, sample points, flushing, testing, and clearing of the proposed water system and associated appurtenances from Vanderbilt Drive to US 41.
 - Restoration of the work zone: trench backfilled and compacted to grade; temporary asphalt patching on all roadway crossings from 6th Street to US41 (including water service crossings); temporary asphalt on all driveway crossings (driveways are not to be completely removed within the ROW as part of this Phase) from 6th Street to US 41; temporary compacted lime rock base driveway crossings from Vanderbilt Drive to 6th Street; valve pads; mailbox removal/replacement; sidewalk removal/replacement (sidewalks, temporary or permanent, must be installed within 7 days of existing sidewalk being removed on the north/south streets); temporary roadway/crosswalk striping.

The water main shall be functionally complete (installed, backfilled, tested, cleared for use, and placed into service) and restoration as detailed above complete and accepted by the Owner, CEI, and EOR before Phase 2 may begin. A Phase 1 water system functionally complete notification letter shall be provided to the Contractor by the County when the Owner, CEI, and EOR have deemed Phase 1 to be functionally complete and the Contractor may begin on Phase 2.

Phase 2:

- Phase 2A: Roadway milling, AC Pipe removal, Sanitary and Stormwater improvements, and restoration (less final lift of asphalt) along 98th Avenue North and 99th Avenue North from Vanderbilt Drive to 6th Street. This Phase shall include:
 - Roadway milling.
 - Removal and disposal of the existing AC water main and associated existing water main appurtenances (valves, ARVs, etc.).
 - Removal and replacement of the sanitary sewer system including all manholes, gravity mains, sanitary sewer laterals, temporary and permanent connections to existing systems, modifications to existing/proposed systems. Sanitary sewer system shall be removed and replaced beginning at the deepest section working towards the shallowest sections (west to east for the 500 block).
 - Removal and replacement of the stormwater system including catch basins, yard drains, stormwater main piping, swale grading; temporary and permanent connections to existing systems, modifications to existing/proposed systems.
 - Restoration of the work zone: ROW to ROW restoration (less landscape/sod and roadway lime rock and asphalt placement). The entire ROW shall be compacted and graded as part of this Phase.

All the proposed sanitary and stormwater systems within Phase 2A shall be functionally complete (installed, backfilled, tested, cleared for use, and placed into service) and restored as detailed above before Phase 3 may begin. A Phase 2A functionally complete notification letter shall be provided to the Contractor by the County when the Owner, CEI, and EOR

have deemed Phase 2A to be functionally complete and the Contractor may begin on Phase 2B and Phase 3A.

- Phase 2B: Restoration (less final lift of asphalt) along 98th Avenue North and 99th Avenue North from Vanderbilt Drive to 6th Street. This Phase shall include:
 - Landscape/sod restoration.
 - Roadway lime rock and first lift of asphalt placement (compacted, tested, and accepted).
 - Temporary striping and pavement markings.
 - Complete ROW to ROW final restoration (less final lift of asphalt).

The Contractor shall have 30 calendar days from the Phase 2A functionally complete date to complete the final restoration (less final lift of asphalt). If the Contractor does not complete final restoration (less final lift of asphalt) within 30 calendar days from the functionally complete date of Phase 2A, the Contractor will be notified not to work on all other phases (of the affected Avenue) until Phase 2B is complete and accepted by the Owner, CEI, and EOR. This notification will not alter the Contract completion dates as the delay would be due to the Contractor not meeting Contract requirements. If the Contractor does not complete final restoration (less final lift of asphalt) within 30 calendar days from the functionally complete date of Phase 2A, the Contractor will not be paid for work completed outside of this phase. A notification letter will be provided to the Contractor by the County when the Owner, CEI, and EOR have deemed Phase 2B to be completely restored less final lift of asphalt.

Phases 3:

- Phase 3A: Roadway milling, AC Pipe removal, Sanitary and Stormwater improvements, and restoration (less final lift of asphalt) along 98th Avenue North and 99th Avenue North from 6th Street to 7th Street and along 7th Street. This Phase shall include:
 - Roadway milling.
 - Removal and disposal of the existing AC water main and associated existing water main appurtenances (valves, ARVs, etc.).
 - Removal and replacement of the sanitary sewer system including all manholes, gravity mains, sanitary sewer laterals, temporary and permanent connections to existing systems, modifications to existing/proposed systems. Sanitary sewer system shall be removed and replaced beginning at the deepest section working towards the shallowest sections.
 - Removal and replacement of the stormwater system including catch basins, yard drains, stormwater main piping, swale grading; temporary and permanent connections to existing systems, modifications to existing/proposed systems.
 - Restoration of the work zone: ROW to ROW restoration (less landscape/sod and roadway lime rock and asphalt placement). The entire ROW shall be compacted and graded as part of this Phase.

All the proposed sanitary and stormwater systems within Phase 3A shall be functionally complete (installed, backfilled, tested, cleared for use, and placed into service) and restored as detailed above before Phase 4 may begin. A Phase 3A functionally complete notification letter shall be provided to the Contractor by the County when the Owner, CEI, and EOR have deemed Phase 3A to be functionally complete and the Contractor may begin on Phase 3B and Phase 4A.

- Phase 3B: Restoration (less final lift of asphalt) along 98th Avenue North and 99th Avenue North from 6th Street to 7th Street. This Phase shall include:
 - Landscape/sod restoration.
 - Roadway lime rock and first lift of asphalt placement (compacted, tested, and accepted).
 - Temporary striping and pavement markings.
 - Complete ROW to ROW final restoration (less final lift of asphalt).
- The Contractor shall have 30 calendar days from the Phase 3A functionally complete date to complete the final restoration (less final lift of asphalt). If the Contractor does not complete final restoration (less final lift of asphalt) within 30 calendar days from the functionally complete date of Phase 3A, the Contractor will be notified not to work on all other phases (of the affected Avenue) until Phase 3B is complete and accepted by the Owner, CEI, and EOR. This notification will not alter the Contract completion dates as the delay would be due to the Contractor not meeting Contract requirements. If the Contractor does not complete final restoration (less final lift of asphalt) within 30 calendar days from the functionally complete date of Phase 3A, the Contractor will not be paid for work completed outside of this phase. A notification letter will be provided to the Contractor by the County when the Owner, CEI, and EOR have deemed Phase 3B to be completely restored less final lift of asphalt.

Phases 4:

- Phase 4A: Roadway milling, AC Pipe removal, Sanitary and Stormwater improvements, and restoration (less final lift of asphalt) along 98th Avenue North and 99th Avenue North from 7th Street to 8th Street. This Phase shall include:
 - Roadway milling.
 - Removal and disposal of the existing AC water main and associated existing water main appurtenances (valves, ARVs, etc.).
 - Removal and replacement of the sanitary sewer system including all manholes, gravity mains, sanitary sewer laterals, temporary and permanent connections to existing systems, modifications to existing/proposed systems. Sanitary sewer system shall be removed and replaced beginning at the deepest section working towards the shallowest sections (east to west for the 700 block).
 - Removal and replacement of the stormwater system including catch basins, yard drains, stormwater main piping, swale grading; temporary and permanent connections to existing systems, modifications to existing/proposed systems.
 - Restoration of the work zone: ROW to ROW restoration (less landscape/sod and roadway lime rock and asphalt placement). The entire ROW shall be compacted and graded as part of this Phase.

All the proposed sanitary and stormwater systems within Phase 4A shall be functionally complete (installed, backfilled, tested, cleared for use, and placed into service) and restored as detailed above before Phase 4B and Phase 5A may begin. A Phase 4A functionally complete notification letter shall be provided to the Contractor by the County when the Owner, CEI, and EOR have deemed Phase 4A to be functionally complete and the Contractor may begin on Phase 4B and Phase 5A.

- Phase 4B: Restoration (less final lift of asphalt) along 98th Avenue North and 99th Avenue North from 7th Street to 8th Street. This Phase shall include:
 - Landscape/sod restoration.
 - Roadway lime rock and first lift of asphalt placement (compacted, tested, and accepted).
 - Temporary striping and pavement markings.
 - Complete ROW to ROW final restoration (less final lift of asphalt).
- The Contractor shall have 30 calendar days from the Phase 4A functionally complete date to complete the final restoration (less final lift of asphalt). If the Contractor does not complete final restoration (less final lift of asphalt) within 30 calendar days from the functionally complete date of Phase 4A, the Contractor will be notified not to work on all other phases (of the affected Avenue) until Phase 4B is complete and accepted by the Owner, CEI, and EOR. This notification will not alter the Contract completion dates as the delay would be due to the Contractor not meeting Contract requirements. If the Contractor does not complete final restoration (less final lift of asphalt) within 30 calendar days from the functionally complete date of Phase 4A, the Contractor will not be paid for work completed outside of this phase. A notification letter will be provided to the Contractor by the County when the Owner, CEI, and EOR have deemed Phase 4B to be completely restored less final lift of asphalt.

Phases 5:

- Phase 5A: Roadway milling, AC Pipe removal, Sanitary and Stormwater improvements, and restoration (less final lift of asphalt) along 98th Avenue North and 99th Avenue North from 8th Street to US41. This Phase shall include:
 - Roadway milling.
 - Removal and disposal of the existing AC water main and associated existing water main appurtenances (valves, ARVs, etc.).
 - Removal and replacement of the sanitary sewer system including all manholes, gravity mains, sanitary sewer laterals, temporary and permanent connections to existing systems, modifications to existing/proposed systems. Sanitary sewer system shall be removed and replaced beginning at the deepest section working towards the shallowest sections (west to east for the 800 block).
 - Removal and replacement of the stormwater system including catch basins, yard drains, stormwater main piping, swale grading; temporary and permanent connections to existing systems, modifications to existing/proposed systems.
 - Restoration of the work zone: ROW to ROW restoration (less landscape/sod and roadway lime rock and asphalt placement). The entire ROW shall be compacted and graded as part of this Phase.

All the proposed sanitary and stormwater systems within Phase 5A shall be functionally complete (installed, backfilled, tested, cleared for use, and placed into service) and restored as detailed above before Phase 5B may begin. A Phase 5A functionally complete notification letter shall be provided to the Contractor by the County when the Owner, CEI, and EOR have deemed Phase 5A to be functionally complete and the Contractor may begin on Phase 5B.

- Phase 5B: Restoration (less final lift of asphalt) along 98th Avenue North and 99th Avenue North from 8th Street to US41. This Phase shall include:

- Landscape/sod restoration.
- Roadway lime rock and first lift of asphalt placement (compacted, tested, and accepted).
- Temporary striping and pavement markings.
- Complete ROW to ROW final restoration (less final lift of asphalt).
- The Contractor shall have 30 calendar days from the Phase 5A functionally complete date to complete the final restoration (less final lift of asphalt. If the Contractor does not complete final restoration (less final lift of asphalt) within 30 calendar days from the functionally complete date of Phase 5A, the Contractor will be notified not to work on all other phases (of the affected Avenue) until Phase 5B is complete and accepted by the Owner, CEI, and EOR. This notification will not alter the Contract completion dates as the delay would be due to the Contractor not meeting Contract requirements. If the Contractor does not complete final restoration (less final lift of asphalt) within 30 calendar days from the functionally complete date of Phase 5A, the Contractor will not be paid for work completed outside of this phase. A notification letter will be provided to the Contractor by the County when the Owner, CEI, and EOR have deemed Phase 5B to be completely restored less final lift of asphalt.

Phase 6:

- Phase 6: Final Asphalt Lift along 98th Avenue North and 99th Avenue north from US41 to Vanderbilt Drive, including temporary and final (thermoplastic) striping. The final asphalt lift on all of 98th Avenue North and 99th Avenue North (from Vanderbilt Drive to US 41) shall not be placed until all the utility improvements and restoration are complete and accepted by the Owner, CEI, and EOR.

SECTION III

MEASUREMENT AND PAYMENT

98th Avenue North and 99th Avenue North Public Utility Renewal DESCRIPTION

- A. This section describes the method used to determine quantities of Work performed or materials supplied for which a price is given in the Bid. It establishes the basis upon which payment will be made for Payment Items.
- B. Subject to the provisions in General Conditions, all Work and payment for the Work is represented by Payment Items and associated unit prices.

PAYMENT

- A. Subject to all other contract requirements, the Contractor shall be paid for "as built" quantities of Work for which a price is given in the bid.
- B. Quantities on the Bid Schedule are estimated and may be increased or decreased without limit and without changes to the unit prices.
- C. No separate payment will be made for one Payment Item as Work incidentally required to complete the Work of another.
- D. Payment for Work performed shall be made in accordance with the unit prices in the Bid.
- E. Contractor's payment applications approval is subject to all conditions of the Contract, Collier County requirements and of the receipt and approval (by the County, EOR, and/or CEI) of following from the Contractor:
 - a. Up-to-date monthly Project Schedule.
 - b. Up-to-date two Week Look-a-Head schedules (every 2 weeks).
 - c. Up-to-date weekly vibration monitoring reports (signed and sealed).
 - d. Preconstruction Assessment Forms.
 - e. Preconstruction Videos (wet and dry).
 - f. Existing utility location reports (horizontal and vertical pot holing or soft digging of all existing utilities), including existing sewer laterals).
 - g. As-built red lines of completed work.
 - h. Compliance with staging/storage lot(s) conditions/restrictions per the Special Project Provisions.

Additionally, Contractor's payment applications approval is subject to permanent or temporary sidewalks on the north/south streets (6th, 7th, and 8th Streets) being provided within 7 calendar days of a sidewalk (including sections of a sidewalk) being removed by the Contractor.

MEASUREMENT FOR PAYMENT

- A. Methods of Measurement:
 - 1. Measurements of lengths, widths, slope angles, and depths or elevations shall be made to determine "as-built" quantities of lengths, areas and volumes pertinent to Payment Items.

- a. Unless otherwise specified, all lengths shall be horizontal distances.
 - b. Slope angles and elevations shall be measured using land surveying equipment.
2. Graphic representations of measured quantities shall be drafted to scale using the Drawings where convenient and appropriate. Additional drawings shall be drafted if required.
 - a. Irregular shapes representing areas and volumes shall be measured using a compensating polar planimeter or a computer digitizer.
 - b. Regular shapes shall be scaled.
3. Use of Drawings:

Unless otherwise agreed upon between the Contractor and Owner, the Drawings shall be used as the basis to establish existing grades and other existing topographic features.

PAYMENT ITEMS

- A. No separate payment will be made for the following Work, and its cost shall be included in the Bid Price of the Payment Item to which it is associated:
 1. Trench excavation, sheeting, shoring and bracing.
 2. Dewatering and associated water quality testing as stipulated in the South Florida Water Management District Permit.
 3. Best management practices and controls required to meet dewatering discharge water quality standards.
 4. Erosion and sedimentation control and turbidity screening.
 5. Excavation, fill, backfill, pipe bedding (including 57 stone), compaction, and grading, including furnishing and installing imported material as required.
 6. Excavation of all material encountered, including rock, organic, inorganic, and unsuitable material and all material transportation and disposal.
 7. Right-of-way (ROW), site, and all disturbed area restoration including grading, sod, mulch, plantings, trees, landscape, etc. Sod type shall be determined by the type of sod that constitutes 50% or more of the property to be restored.
 8. Final and temporary restoration.
 9. Removal and temporary replacement of driveways and roadways disturbed during construction to maintain stable condition until permanent restoration is completed.
 10. Tree trimming (within the ROW and outside the ROW) and removal (within the ROW).
 11. Removal, repair, and replacement of existing irrigation located within the ROW.
 12. Maintaining irrigation systems operable during construction.
 13. Removal and disposal of existing water mains and associated appurtenances (other than AC water main piping), including concrete thrust blocks.
 14. Removal and disposal of existing stormwater pipes, culverts, mitered ends, headwalls, and associated structures.
 15. Removal and replacement of existing bollards (wooden, metal, or concrete).
 16. Cleanup and site dust control, including daily sweeping and watering and as needed to maintain a clean work area and daily collecting and disposal of all trash and debris within the project site.
 17. Testing, including all materials, fees, certifications, and equipment.
 18. Maintenance of utility service.
 19. Appurtenant work.
 20. Removal and replacement of fencing and other structures within the ROW.

21. Saw cutting.
22. Coordination with other contractors for work within the ROW and/or private property.
23. All transportation, storage, and labor.
24. Notifications to property owners of construction schedule and service interruptions.
25. Hiring of power company to relocate or support power poles as required.
26. Contractor Project Manager or Supervisor on-site during any construction activity.
27. Temporary bacteriological sample points.

B. Measurement and Payment Items as listed in the Bid Schedule:

SECTION 1: GENERAL REQUIREMENTS

1.1 Mobilization/Demobilization

- A. Measurement for various items covered under Mobilization/Demobilization will not be made for payment, and all items shall be included in the contract lump sum price.
- B. Payment for mobilization and demobilization will be made at the Contract lump sum price and shall include all necessary meetings for the project, including but not limited to: meetings with property owners, home owners associations, and other interested parties, all meetings deemed necessary by Collier County, the attendance of the Contractor's field superintendent(s) at all progress meetings, and all other public meetings required to complete the project in accordance with the contract documents, preparatory work and operations in mobilizing for beginning work on the Project and demobilizing for ending work on the Project. Additionally, this item shall include locating and potholing all existing utilities (including existing sanitary sewer laterals at the ROW line, water meters and backflow devices) a minimum of two (2) weeks prior to beginning work and providing the required report and notification to the Engineer of Record and County of any discrepancies found; the establishment of safety equipment, first aid supplies, sanitary and other facilities, as required by these specifications, State and local laws and any other preconstruction expense necessary for the state of the Work, insurance and bonds, the cost of field engineering, including permits and fees, construction schedules (updated schedules are required monthly and 2-week look-a-heads every 2 weeks), shop drawings, temporary facilities, lay down staging/storage area/lots, construction aids, work associated with Contractor support during Owner/Engineer testing, reviews and inspection, re-inspection and any rework resulting from same, cleaning, and project records documents. This payment item cannot exceed more than 5% of the subtotal base bid (without allowances) for each Avenue.

1.2 Maintenance of Traffic

- A. Measurement for various items covered under Maintenance of Traffic will not be made for payment, and all items shall be included in the contract lump sum price.
- B. Payment for Maintenance of Traffic will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for permitting, construction, and maintenance of any necessary detour facilities; the providing of necessary facilities for access to residences, business, etc., along the project; the furnishing, installing and maintaining of traffic control, barricades, railings, message boards (VMS), warning lights, and other safety devices during construction, the control

of dust (daily and as further needed), providing the services of uniformed off-duty police officers, flag men, watchmen, and other special requirements for the safe and expeditious movements of traffic per County and FDOT standards.

1.3 Survey Layout & Record Drawings

- A. Measurement for various items covered under Survey Layout & Record Drawings will not be made for payment, and all items shall be included in the contract lump sum price.
- B. Payment for providing all survey and record drawings will be made at the contract lump sum price for the item, which price and payment shall be full compensation for project stake-out, completion of an as-built survey, contractor's hand-drawn redlines, and the delivery of five (5) sets of signed and sealed record drawings and an electronic copy submitted to the County upon Contract close-out per County standards. Electronic (CAD) files shall be provided to the Engineer of Record. Up-to-date Contractor redlines shall be provided with every pay request. Pay requests submitted without up-to-date Contractor redlines shall be rejected.

1.4 Pre-Construction Video & Photographs

- A. Measurement for various items covered under Pre-Construction Video & Photographs will not be made for payment, and all items shall be included in the contract lump sum price.
- B. Payment for providing pre-construction videos and photographs will be made at the full lump sum contract price for the item, which price and payment shall be full compensation for individual property assessments with a minimum of three pictures per lot to document pre-construction conditions, including, but not limited to, sod type, driveway condition, driveway condition outside of the ROW, and private irrigation system details documented on the Pre-Construction Condition Form specified herein; a wet weather video (in addition to a dry weather video) to document flood conditions that will take place during normal business hours. If documentation of the wet weather condition is not possible by a precipitation event, this shall include the cost to flood the ROW with a water truck to document stormwater drainage conditions. Preconstruction videos and pictures shall be re-taken individually for each phase a maximum of 30 days prior to commencement of construction in a new corresponding phase. This pay item includes performing a preconstruction video(s) and pre-assessment forms for all Contractor staging/storage lots.

1.5 Post-Construction Video

- A. Measurement for various items covered under Post-Construction Video will not be made for payment, and all items shall be included in the contract lump sum price.
- B. Payment for providing post-construction videos will be made at the full lump sum contract price upon approval and acceptance of a post-construction video per substantial completion per block and an overall substantial completion for the entire project, which price and payment shall be full compensation for a dry weather video and a wet weather video documenting conditions of the ROW and on private property, if documentation of the wet weather condition is not possible by a precipitation event, this shall include the cost to flood the ROW with a water truck to document stormwater drainage conditions within 15 days of project final completion.

1.6 Clearing & Grubbing

- A. Measurement for various items covered under Clearing & Grubbing will not be made for payment, and all items shall be included in the contract lump sum price.
- B. Payment for Clearing & Grubbing will be made at the contract lump sum price for the item, which price and payment shall be full compensation for the clearing and grubbing (removal and disposal) of all items within the ROW within the project area, not included in another pay item, including grading. This pay item does not include the removal and disposal of mailboxes, sidewalks, driveways, and roadways.

1.7 Vibratory Monitoring

- A. Measurement for various items covered under Vibratory Monitoring will not be made for payment, and all items shall be included in the contract lump sum price.
- B. Payment for Vibratory Monitoring will be made at the contract lump sum price for the item, which price and payment shall be full compensation for vibratory monitoring by a third-party independent consultant to perform vibration monitoring adjacent to existing homes and structures during all construction activities for the duration of the project and providing weekly signed and sealed vibration monitoring reports. Vibration monitoring and reporting shall follow the U.S. Bureau of Mines standards and reports shall be signed and sealed by a State of Florida Professional Engineer and delivered weekly to the County, EOR, and CEI. The Contractor shall not relocate the Vibratory Monitoring equipment. The third-party independent consultant shall perform all relocations of the Vibratory Monitoring equipment and subsequent re-calibrations.

1.8 Remove, Dispose, and Replace Mailboxes

- A. Measurement for various items covered under Remove, Dispose, and Replace Mailboxes will be based on the number of mailboxes installed and accepted.
- B. Payment for removing, disposing, and furnishing and installing the new mailboxes will be made per Contract unit price which price and payment shall be full compensation for removal and disposal of existing mailboxes, adjustment, furnishing and installation of breakaway posts (single or double mailbox posts), concrete, and new mailboxes. This item also includes reinstalling the existing mailboxes as needed until the end of the project and maintaining the mailboxes per USPS guidelines and standards. Each temporary and new mailbox shall be installed per USPS guidelines and standards and as shown herein and include address numbering. New mailboxes shall include engineered high performance grade vinyl 2" x 1" address numbering (reflective black and silver/white finish) to provide enhanced visibility. The engineered high performance vinyl numbers shall be weather and fade resistant, designed to resist tearing and peeling damage from high temperatures and full sun exposure, and be rated for 6 years of use.

1.9 Remove and Dispose Concrete, Asphalt, and Gravel Driveway

- A. Measurement for removing and disposal of concrete (including coated, finished, and stamped), asphalt, and gravel driveways will be based on the area of material removed as field measured and verified by County, CEI, and/or EOR.
- B. Payment for removing and disposing of the driveway (concrete, asphalt, gravel) will be made at the appropriate Contract Unit price per square yard of concrete, asphalt, or

gravel driveway actually removed and disposed of. Contractor shall confirm the limits and dimensions of all driveway removal in the field with the County, CEI, and/or EOR prior to removal. No additional measurement or payment will be made for varying driveway thicknesses. Driveway removal and disposal associated with the installation of the new water main shall not be made for payment under this item.

1.10 Remove and Store Brick Paver Driveway

- A. Measurement for removal and storage of brick paver driveway will be based on the area of material actually removed and stored as field measured and shown on as-built drawings and verified by County, CEI, and/or EOR.
- B. Payment for removing and storing brick paver driveway will be made at the appropriate Contract Unit price per square yard of paver driveway actually removed including removal, protection, and storage of brick pavers. No additional measurement or payment will be made for varying driveway thicknesses or pavers set in concrete.

1.11 Install Driveway

- A. Measurement for installing driveway (concrete, asphalt, brick pavers) will be based on the area of material actually placed as field measured and shown on as-built drawings.
- B. Payment for installing driveway (concrete, asphalt, brick pavers) will be made at the appropriate Contract Unit price per square yard of concrete (including the concrete placed for decorative and colored concrete), asphalt, or brick paver driveway actually placed for construction including furnishing of additional of additional brick pavers due to damage or to meet the specifications/drawings. Contractor to install all concrete driveways with reinforcement per Collier County standards. Contractor shall confirm the limits and dimensions of all driveway installation in the field with the County, CEI, and/or EOR prior to placement. Replace driveways to match existing elevations and materials of construction (unless shown otherwise on the Drawings or approved by the County), except dirt and gravel driveways which shall be replaced with reinforced concrete. Include surface restoration required for driveway removal and replacement and reinforcement of driveway flares in this item. No additional measurement or payment will be made for varying driveway thicknesses, subsurface preparation, subgrade, base, limerock, and stabilizing material. All driveways shall be constructed per Collier County Right of Way Standards and per the contract documents. Coatings/color and driveway stamping finishes are a separate pay item.

1.12 Driveway Coatings and Finishes

- A. Measurement for driveway coatings, color additives, finishes, including driveway stamping, will be based on the area of material actually placed as field measured and shown on as-built drawings.
- B. Payment for driveway coatings, color additives, finishes, and driveway stamping will be made at the appropriate Contract Unit price per square yard of coatings, finishes, color additives and stamping placed including etching, preparatory work, stamping, and coating for all stamped and colored driveways. For decorative concrete coatings, payment shall include materials and labor to re-paint and re-stamp entire driveway (from EOP to end of driveway on private property) at the time of restoration, including coordination with the property owner to best match the current driveway stamp and

color. Replace driveways to match existing elevations and materials of construction (unless shown otherwise on the Drawings or approved by the County). All driveways shall be constructed per Collier County Right of Way Standards and per the contract documents.

1.13 Remove, Dispose, and Replace Sidewalk (including Temporary)

- A. Measurement for removing, disposal, and replacing asphalt and concrete sidewalks will be based on the total square yard of material actually placed as field measured and shown on as-built drawings.
- B. Payment for removing, disposal, and replacing asphalt and concrete sidewalks shall be made at the appropriate Contract unit price per square yard and payment shall be full compensation for removal and disposal of existing material, adjustment, furnishing subgrade and stabilizing material, furnishing and installing of sidewalk per FDOT Standard Index 310 or the Flexible Pavement Design Manual, per ADA requirements, and testing as specified herein. Pedestrian access and transit shall be provided at all times during construction and restoration (permanent or temporary) of the sidewalks on the north/south streets must be completed within 7 calendar days of the sidewalk being removed. Temporary sidewalk restoration shall be firm, stable, and slip resistant (compacted limerock or asphalt).

1.14 Detectable Warnings

- A. Measurement for installing detectable warning strips will be based on the total square yard of material actually placed as field measured and shown on as-built drawings.
- B. Payment for installing detectable warning strips shall be made at the appropriate Contract unit price per square yard and payment shall be full compensation for furnishing and installing detectable warnings per FDOT Standard Index 304, per ADA requirements, and as specified herein. Detectable warnings must be installed either in concrete, cast-in-place, or with concrete anchors, per manufacturer's recommendations, including detectable warning within asphalt.

1.15 Private Property Tree Removal

- A. Measurement for private property tree removal will be based on the number of trees removed, disposed, and accepted as determined by the County, CEI and EOR.
- B. Payment for removal and disposal of private property trees as determined by the County, CEI, and EOR shall be made at the Contract unit price which price and payment shall be full compensation for determination of trees to be removed based on location, species, and potential to impact to utilities within the ROW, coordination with the homeowner, removing and disposing the tree, topping where required, adjustment, removal of the remaining stump to a minimum depth of 6 inches below finished grade, filling, installation of topsoil, and restoration of the removed area with sod and root treatment (if required).

1.16 Vehicle Guard Post

- A. Measurement for vehicle guard posts will be based on the number of vehicle guard posts installed and accepted as determined by the County, CEI and EOR.

- B. Payment for vehicle guard posts, where necessary as determined by the County, CEI, and EOR, shall be made at the Contract unit price which price and payment shall be full compensation for furnishing and installing vehicle guard posts per Collier County Detail G-11 including adjustment, concrete, coating, restoration and all of other necessary equipment, material, and labor.

1.17 Allowance

- A. An allowance is established to cover unanticipated costs associated with the general requirement, including but not limited to additional landscaping (not covered under a pay item) within the ROW. (No additional payment shall be made for landscaping disturbed outside of the right-of-way). Use of Allowance must be approved by the Collier County prior to the execution of the work. All work must be billed on a time and material price basis as agreed upon by the Contractor, County, CEI, and EOR.

SECTION 2: WATER SYSTEM

2.1 Water Main Pipelines

- A. Measurement for water main pipelines, except as otherwise specified, will be based on the laying length of the pipe in linear feet actually placed as measured along the centerline of the completed pipe, including length of fittings measured along the centerline measured to the nearest foot, between the limits shown on the Drawings and restraint of pipe as required by contract documents.
- B. Payment for furnishing and installing water main pipelines will be made at the Contract unit price per linear foot for the pipe in place, which price and payment shall be full compensation for all work associated with the water main pipeline installation. Payment shall also include furnishing and installation of all pipe fittings, sidewalk and driveway removal and replacement (not included in another pay item), asphalt removal and replacement, curb and gutter removal and replacement, restraints, detectable tape, pretesting, flushing/filling of main, joint restraints, temporary connections (including jumpers, temporary meters, and abandonment once clearance is obtained), temporary facilities for blow-offs, pressure testing, disinfection and sterilization, bacteriological testing and sampling assemblies, silt fencing, insulated conducting wire, connections to existing water main (not included in a separate pay item) including restraint of existing pipe on all sides of the tie in, support of existing main, keeping existing main in service, removal and temporary replacement of driveways and roadways disturbed during construction to maintain usable condition until permanent restoration is completed; landscape and/or sodding not designated in bid as necessary, coordination with other contractors, stubs and valves for future connections to existing pipes, clean-up, all cost to clean, repair new or existing piping and appurtenances, and all equipment and all other work necessary to complete the installation as specified. Contractor to assume all existing pipe is unrestrained at connection points and restrain existing pipes per Collier County standards.

2.2 Gate Valves/Insert Valves/Line Stops

- A. Measurement for Gate Valves/Insert Valves/Line Stops, except as otherwise specified, will be based on the number of actual gate valves/insert valves/line stops installed and accepted.
- B. Payment for furnishing and installing gate valves/insert valves/line stops will be made at the appropriate contract unit price per gate valve/insert valve/line stop installed which price and payment shall be full compensation for all labor and materials associated with furnishing, installing and testing the valve/line stop, valve stem, mechanical restraints (not listed in a separate pay item), restraint of existing mains, valve nut with extension, tie rods, valve box, valve box adjustments or extensions, valve concrete pad, valve disk, valve cover, and required marker balls. This item also includes the installation of base material below the valve/line stop and the removal and reinstallation of line stop as required in accordance with Collier County standards.

2.3 Fire Hydrant Assemblies

- A. Measurement for Fire Hydrant Assemblies, except as otherwise specified, will be based on the number of fire hydrants installed and accepted.
- B. Payment for furnishing and installing the fire hydrant assemblies will be made at the appropriate contract unit price per fire hydrant assembly installed which price and payment shall be full compensation for all labor and materials required to furnish and install the tee on the utility main, all necessary fittings, joint restraint from the valve to the tee, necessary piping from the tee to the hydrant location with the installation of barrel (riser) section to meet finished grade at the locations depicted in the drawings, and deflections under/over existing or proposed utilities, swales, or stormwater improvements; control gate valve, valve box, pavement marker, coordination with the fire department, chains, and any concrete work. Contractor is responsible to set the hydrant to grade in accordance with the details shown on the Plans and the Collier County Specifications.

2.4 Water Services

- A. Measurement for Water Services, except as otherwise specified, will be based on the number of water services by type actually installed and accepted.
- B. Payment for furnishing and installing water services will be made at the appropriate Contract unit price per each polyethylene short side and long side service (single and double) from the water main to and including the curb stop within the meter box acceptably installed which price and payment shall be full compensation for all labor, materials, and equipment to install all necessary pipe, fittings, connections, conduits/casings, meter stops, stainless steel tapping saddles, tapping sleeves, curb stops, electronic marker at curb stop and water main connection, locking curb stops at vacant properties as specified on the drawings, deflections, water meter/meter box adjustments (not included in a separate pay item), connection to existing meters, protection of existing utilities and facilities, removal of asphalt along utility corridor, placement of temporary asphalt along the utility corridor, removal and replacement of shrubs, pavement, culverts and storm sewers, sidewalks and other surface materials not specifically designated in the Bid, and all other work required for a complete installation.

2.5 Water Meter, Meter Box, and Backflow Device

- A. Measurement for Water Meters, Meter Boxes, and Backflow Device except as otherwise specified, will be based on the number of meters, meter boxes, and backflow devices installed and accepted.
- B. Payment for Water Meters, Meter Boxes, and Backflow Device, including furnishing and installing new meter boxes, relocating existing meters, and the relocation of existing, or installation of County provided new backflow devices, will be made at the Contract unit price per each meter, meter box, and backflow device installed/relocated to the property corner per Collier County Standards and Details installed and accepted which price and payment shall be full compensation for all labor, material, and furnishing and installing the piping, fittings, conduit/casings, bushings, reducers, adaptors, grading, restoration and all work necessary to connect private property water service piping to the relocated meters at the property lines, as depicted on the plans. All work on private property piping shall be performed by a Florida Certified Plumbing Contractor. For County provided backflow device pickup, it will be the responsibility of the Contractor to pick up parts at the distribution warehouse on 4370 Progress Avenue as needed and will need to sign the parts request form upon pickup to confirm that all parts are received. All parts requests should be made in writing at least three (3) business days in advance before request for pick up. Parts requests can be emailed to the project manager. The County shall provide all the necessary paperwork associated with the backflow device replacements. All existing materials removed shall be returned to the County or disposed of by the Contractor (at no additional cost) at the County's discretion. New meter boxes shall be Fibrelyte Composite FL12 with Fibrelyte Composite D (AMR and Reader Door) cover.

2.6 Water Meter Box (vacant property)

- A. Measurement for Water Boxes, except as otherwise specified, will be based on the number of meter boxes installed and accepted.
- B. Payment for furnishing and installing new meter boxes to vacant properties will be made at the Contract unit price per meter box installed and accepted, which price and payment shall be full compensation for all labor, furnishing and installing all material fittings, conduit/casings, bushings, reducers, adaptors, grading, restoration and all work necessary to connect the service to the proposed meter boxes and locking curb stop as depicted on the plans. All existing meter boxes removed shall be returned to the County or disposed of by the Contractor (at no additional cost) at the County's discretion. New meter boxes shall be Fibrelyte Composite FL12 with Fibrelyte Composite D (AMR and Reader Door) cover.

2.7 Connection to Existing Water Main

- A. Measurement for Connection to Existing Water Mains, except as otherwise specified, will be based on the number of connections actually installed and accepted.

- B. Payment for connecting the newly constructed water main to the existing water mains will be made at the appropriate Contract unit price per each connection acceptably installed which price and payment shall be full compensation to furnish and install all fittings, connections, insert valves and line stops (not included in a separate pay item), tapping sleeve and valve with valve box, blow-offs, miscellaneous piping not included under a separate bid item; restraining existing and proposed piping, removal and replacement of existing concrete restraints as necessary, concrete work, field measurements, protection of existing utilities and facilities, bacteriological sample points testing, and all other work required for a complete installation. This pay item does not include connections not listed in the bid schedule under this bid item, additional connections to existing/newly installed water mains shall be included in the Water Main Pipelines unit cost.

2.8 Bacteriological Sample Points

- A. Measurement for furnishing and installing bacteriological sample points will be based on the number of permanent bacteriological sample points installed and accepted.
- B. Payment for furnishing and installing permanent bacteriological sample points will be made at the appropriate contract unit price per each bacteriological sample point installed and accepted which price and payment shall be full compensation to furnish and install all valves, tubing, fittings, saddles, enclosure, all concrete, removal existing sample points, and incidentals necessary for a complete installation as shown on the drawings and as specified herein.

2.9 Air Release Valves

- A. Measurement for Air Release Valves, except as otherwise specified, will be based on the number of air release valves installed and accepted on the potable water main.
- B. Payment for furnishing and installing air release valves will be made at the appropriate contract unit price per each air release valve installed and accepted which price and payment shall be full compensation to furnish and install the valve, complete with tapping saddle, ballcorp, curb stop, supports, vents, vault, footing, frame, cover, access lid, piping, fitting and bends, enclosures, deflections under/over existing or proposed utilities, swales, or stormwater improvements, and other appurtenances. Air release valves shall be placed at the ROW line unless otherwise directed by the County. The necessity of air release valves shall be field determined by the Contractor, EOR, and CEI.

2.10 Conflict Avoidance (Deflection)

- A. Measurement for each conflict avoidance constructed (horizontal or vertical deflection) will be based on the number of each conflict avoidance of existing utilities and drainage installed and accepted.
- B. Payment for conflict avoidance not included in a separate pay item and not already noted on the plans, will be made at the appropriate contract unit price per each deflection installed and accepted which price and payment shall be full compensation to furnish and install pipe, fittings, ARVs as required (not included in another pay item), restraints, concrete work, existing utility protection and restraints, and any other incidentals necessary for a complete installation as specified herein. The linear feet of

new water main piping installed associated with conflict avoidances shall be paid for under a separate pay item and will be measured, in a straight line, between the fitting that begins the deflection and ends the deflection.

2.11 Removal and Disposal of Asbestos Concrete Water Main

- A. Measurement for removal and disposal of the existing asbestos concrete water main will be based on the laying length of the pipe in linear feet actually removed and disposed of as measured along the centerline of the pipe, including length of fittings and specials measured along the centerlines, between the limits shown on the Drawings and restraint of pipe as required by contract documents.
- B. Payment of removing and disposing asbestos concrete pipe will be made at the appropriate contract unit price per linear foot in accordance with Collier County Standard and as specified herein. Payment shall include all testing, including air monitoring. Each individual section (20' max) of asbestos concrete water main removed shall be individually wrapped and marked for disposal prior to being placed in a lined dump truck for transport to the landfill. Appendix F from The Collier County Asbestos Removal must be completed and signed before any AC removal. One copy of the waste manifest from the disposal site shall be provided to Collier County within 48 hours of receipt. The Collier County landfill will not accept loads after 3pm (Monday through Friday) or on Saturday, Sunday, or Collier County recognized holidays.

2.12 Allowance

- A. An allowance is established to cover unanticipated costs including, but not limited to, un-located utilities and unforeseen site conditions. (No additional payment shall be made for rock excavation, replacement of fill material or dewatering). Use of Allowance must be approved by the Collier County prior to the execution of the work. All work must be billed on a time and material price basis as agreed upon by the Contractor, County, CEI, and EOR.

SECTION 3: WASTEWATER SYSTEM

3.1 8-inch PVC Gravity Sewer Pipe (Remove, Dispose, Replace)

- A. Measurement for gravity sewer pipe, except as otherwise specified, will be based on the horizontal laying length of the pipe in linear feet as measured to the nearest foot, including the lengths of manholes and fittings, as installed and accepted.
- B. Payment for furnishing and installing SDR 26 PVC gravity sewer will be made at the Contract unit price per linear foot for the pipe in place, removal and disposal of the existing VCP (including lined VCP) gravity sewer main and associated manholes (includes abandoning and grouting of existing sewer main and manholes), laying of the pipe, maintaining the wastewater collection system in operation at all times, bypass pumping, plugs, and pumper/vacuum trucks as necessary; support of existing sanitary sewer components, including manholes; support of existing and proposed utility components including potable water service laterals and conduits; compaction per FDOT standards, connections not specified elsewhere, coordination with other contractors, and temporary facilities for testing. Payment shall also include roadway

removal and televising of the completed new sanitary sewer main and laterals (from the main to the private property cleanouts at each home/structures) after the road limerock base is compacted, and prior to the placement of asphalt, with results delivered to the County and EOR.

3.2 Sanitary Sewer Service Lateral (Remove, Dispose, and Reconnect)

- A. Measurement for furnishing and installing sanitary sewer services will be based on the number of each sanitary sewer lateral removed, replaced, and connected to the new sanitary sewer.
- B. Payment for furnishing and installing sanitary sewer services will be made at the appropriate Contract unit price per PVC sewer service acceptably installed, including all necessary pipe, fittings, connections, solvent welded sleeves and adaptors, flexible coupling (existing clay to new PVC connections only), cleanouts, two-way cleanouts where specified, protection of existing utilities and facilities, deflecting (horizontal or vertical) around, above, or under proposed or existing stormwater components, locating existing sewer laterals, maintaining sanitary sewer service at all times, service markers, plugs, removal and replacement of landscaping, pavement, sidewalks and other surface materials not specifically designated in the another pay item with compaction per FDOT standards, and all other work required for a complete installation. Payment shall also including the televising of all existing sanitary sewer laterals, with a portable push camera system from the existing main to the private property cleanouts at each home/structures to determine the material and size of the existing private sanitary sewer lateral. The camera system shall have a 1 -inch diameter tip, 50 foot (min) insertion probe, flexible video camera head with bright LED lighting, and a 6” (min) TFT LCD color monitor. The results shall be logged by the Contractor, including, size, material, and location, and provided to the County, CEI, and EOR. Only one connection to the sanitary main shall be allowed per sanitary service which shall be in a straight line, perpendicular to the sanitary sewer main, from the final location of the County owned ROW cleanout. The location of the new sanitary sewer lateral, including the point of connection to existing piping shall be marked in the Contractor’s provided red line as-builts. Cleanouts allowed within a driveway shall have an epoxy coated rim and cover.

3.3 Private Property Sewer Service Lateral Replacement

- A. Measurement for private property service lateral replacement shall be based on the number of linear feet of private sanitary service lateral replaced and accepted.
- B. Payment for replacing the private property sanitary service lateral further than the right-of-way (into private property) as determined on a case by case basis by the County, CEI, and EOR, will be made at the appropriate Contract unit price per linear foot of PVC sewer service lateral replaced, acceptably installed, including all necessary pipe, fittings, connections, solvent welded sleeves and adaptors, flexible coupling (existing clay to new PVC connections only where approved by the County, CEI, and EOR), cleanouts, protection of existing utilities and facilities, removal and disposal of existing lateral pipe, maintaining sanitary sewer service at all times, service markers, plugs, removal and replacement of landscaping, including private property landscaping and restoration, pavement, sidewalks and other surface materials not specifically

designated in the another pay item, and all other work required for a complete installation.

3.4 Relocate Driveway Sanitary Service Lateral

- A. Measurement for relocating each sanitary service lateral located in a driveway will be based on the number of sanitary service laterals relocated to the property corner and accepted.
- B. Payment for relocating sanitary service laterals located in the driveway (up to the house cleanout line, into private property) will be made at the appropriate Contract unit price per PVC sewer service lateral relocate to the property corner, acceptably installed, including all necessary pipe, fittings, connections, solvent welded sleeves and adaptors, flexible coupling (existing clay to new PVC connections only), cleanouts, two-way cleanouts where specified, protection of existing utilities and facilities, locating existing sewer laterals, maintaining sanitary sewer service at all times, service markers, plugs, removal and replacement of landscaping, including private property landscaping and restoration, pavement, sidewalks and other surface materials not specifically designated in the another pay item, and all other work required for a complete installation. Sanitary sewer service laterals within driveways shall be adjusted per the Clean-out Adjustment detail. Only one connection to the sanitary main shall be allowed per sanitary service which shall be in a straight line, perpendicular to the sanitary sewer main, from the final location of the County owned ROW cleanout. Temporary piping is acceptable during construction to connect the existing sanitary sewer lateral to the final location of the lateral to main connection. Temporary lateral to main connections are not permitted. If the relocation of a sanitary sewer service lateral outside of a driveway is not possible due to existing site conditions, the Contractor shall request written permission from the County to install a sanitary sewer lateral within a driveway. Cleanouts installed within a driveway shall have an epoxy coated rim and cover.

3.5 Precast Polymer Concrete Manholes (Remove, Dispose, Replace)

- A. Measurement for installation and furnishing of precast polymer manholes, except as otherwise specified, will be based on the number of precast polymer manholes installed and accepted on the sanitary sewer main.
- B. Payment for furnishing and installing precast polymer manholes will be based on the actual number of manholes installed and accepted, including removal and disposal of all existing concrete manholes unless otherwise specified, all compacted gravel or crushed stone bedding, anti-flotation collars, HDPE or polymer concrete grade rings, sawing, concrete and epoxy work for reinforcements, drop manhole assembly installation, field adjustments, maintaining the wastewater collection system in operation at all times, bypass pumping, plugs, and pumper/vacuum trucks as necessary; protection of adjacent utilities and facilities, manhole frames and covers, coatings and linings, manhole joints, bottom channels, compaction per FDOT standards, and sanitary sewer connections. All reinforced polymer concrete manholes shall have a 2-inch (minimum) Factory Cast Concrete Collar at the manhole base. Minimum access diameter for manholes ring and covers is 24-inches per FDEP requirements.

3.6 Connect New Gravity Sewer to Existing Manhole

- A. Measurement for connection of the new gravity main to the existing manhole, except as otherwise specified, will be based on the number of connections installed and accepted.
- B. Payment for installing the new connection to the existing manholes will be made at the appropriate contract unit price and shall include all required drop manhole adjustment/removal/replacement, core drilling, sawing, installation of pipe, fittings, boots, coatings, maintaining the wastewater collection system in operation at all times, bypass pumping, plugs, and pumper/vacuum trucks as necessary; and all other items necessary to make the connection to the existing manhole.

3.7 Conflict Crossing Through Existing Box

- A. Measurement for conflict crossing through an existing stormwater box shall, except as otherwise specified, will be based on the number of crossings installed and accepted.
- B. Payment for conflict crossing through an existing stormwater box be made at the appropriate contract unit price and shall include all required sawing, coring, casing, concrete work, grouting, including patching; piping, conduit, Link-Seal, spacers, fittings, maintaining the wastewater and stormwater collection systems in operation at all times, bypass pumping, plugs, and pumper/vacuum trucks as necessary; and all other items necessary to make the crossing through an existing stormwater box.

3.8 Road Restoration – Stabilized Subgrade

- A. Measurement for FDOT certified stabilized subgrade will be based on the area of material actually placed as field measured and shown on as-built drawings.
- B. Payment for removing and replacing stabilized subgrade will be made at the appropriate contract unit price per square yard installed including furnishing all FDOT certified material (existing material use is not to be assumed), compaction per FDOT standards, testing, equipment, and disposal of old material. All activities should be in accordance with the Collier County ROW Standards and as detailed on the Plans.

3.9 Road Restoration - Limerock Base (6 or 8-inch)

- A. Measurement for removing and replacing roadway base will be based on the area actually placed as field measured and shown on as-built drawings.
- B. Payment for removing and replacing roadway base will be made at the appropriate Contract unit price per square yard for FDOT certified base installed including furnishing all material (existing material use is not to be assumed), compaction per FDOT standards, testing, equipment, and disposal of old material. Replace all base in accordance with the Collier County ROW Standards and details shown on the Plans.

3.10 Road Restoration – 2-1/2” Asphalt (Two Lifts)

- A. Measurement for removing and replacing street pavement surface will be based on the area actually placed as field measured and shown on as-built drawings.
- B. Payment for removing, disposing and replacing street pavement surface will be made at the appropriate Contract unit price per square yard for pavement surface installed in the work. Replace all pavement surface in accordance with the Collier County ROW Standard Details and details shown on the Plans. This payment item shall be all

encompassing for all asphalt, sign removal and replacements, reflective pavement markers, testing, and temporary striping and markings. This payment item shall cover both lifts of asphalt. Contractor may apply for fifty percent (50%) payment at the completion of the first lift of asphalt, and the remaining fifty percent (50%) shall be paid at the completion and acceptance of the second lift.

3.11 Final Paving Striping/Marking/Signage

- A. Measurement for various items covered under Final Paving Striping/Marking/Signage will not be made for payment, and all items shall be included in the contract lump sum price.
- B. Payment for Final Paving Striping/Marking/Signage will be made at the contract lump sum price for the item, which price and payment shall be full compensation for final pavement striping and markings within the project area. All existing signs shall be replaced with new signs. All striping, marking, and signs shall be in accordance with current FDOT and Collier County specifications/standards and shall include all new sign, posts, hardware, etc. All striping shall be thermoplastic. All removed signs shall be returned to Collier County Traffic Operations at 2885 Horseshoe Drive South, Naples FL 34104. Additionally, this pay item shall include protection of, repair of, and/or replacement of the in-pavement signal loop for the signalized intersection at 99th Avenue and US41 if it is damaged due to the work associated with this project.

3.12 Remove, Dispose, and Replace Concrete Curb

- A. Measurement for removing, disposal, and replacing concrete curb and gutter will be based on the total linear feet of material actually placed as field measured and shown on as-built drawings.
- B. Payment for removing, disposal, and replacing concrete curb and gutter shall be made at the appropriate Contract unit price per linear foot and shall include removal and disposal of existing material, adjustment, furnishing subgrade and stabilizing material, furnishing and installing of concrete curb and gutter to match the current conditions per FDOT Standards, and testing as specified herein. Existing stormwater patterns shall be maintained at all times during construction.

3.13 Milling & Resurfacing

- A. Measurement for milling and resurfacing surface will be based on the area actually placed as field measured and shown on as-built drawings.
- B. Payment for milling and resurfacing street pavement surface will be made at the appropriate Contract unit price per square yard for pavement milled and resurfaced. Mill and resurface all pavement surface in accordance with the Collier County Standard Details and details as shown on the Plans. This payment item shall be all encompassing for all asphalt, sign removal and replacements, reflective pavement markers, and temporary striping placed. This payment item shall include 1-inch minimum milling with Type SP-9.5 asphalt (1-inch minimum) placed with the final lift of asphalt.

3.14 Allowance

- A. An allowance is established to cover unanticipated costs including, but not limited to, un-located utilities and unforeseen site conditions. (No additional payment shall be made for rock excavation, replacement of fill material or dewatering). Use of Allowance must be approved by the Collier County prior to the execution of the work. All work must be billed on a time and material price basis as agreed upon by the Contractor, County, CEI, and EOR.

SECTION 4: STORMWATER SYSTEM

4.1-4.7 Drainage Pipe (Various Types and Sizes)

- A. Measurement for drainage pipe shall be based on the horizontal laying length of the pipe in linear feet as measured from inside wall to inside wall of inlets, and accepted in accordance with the Drawings and Specifications, as measured along the center line of the completed pipe.
- B. Payment for furnishing and installing various types and sizes of storm drain pipe will be made at the contract bid for unit price per linear foot and shall include disposal of excess material, removal and disposal of existing storm culvert pipe, gravel trench, installation of pipe and fittings, silt socks, gaskets, all equipment, installation of gravel water quality trenches as specified in the plans, swale grading (from edge of pavement to right-of-way), any incidental regrading, and all other incidentals necessary to complete the installation as specified. Repair of silt sock shall be per manufacturer's recommendations and as approved by the County, CEI, and EOR. All ADS drainage pipe shall have a smooth interior and annular exterior corrugations.

4.8-4.9 Catch Basin (Various Types and Sizes)

- A. Measurement for the construction of Catch Basins (including Sedimentation Catch Basins and Weir Catch Basins) shall be based on the number of catch basins actually installed and accepted.
- B. Payment for furnishing and installing the catch basins will be made at the contract bid unit price per catch basin installed, including, disposal of excess material, inlet bottom, field adjustments, cutting, concrete reinforcement work, riser (if required), frame, adjustments, galvanized chain, bolt, nuts, washers, and hardware; concrete weir plates, grate or cover, swale grading (from edge of pavement to right-of-way), any incidental regrading, and all transportation, labor equipment and all other incidentals required to construct the new inlet complete in place.

4.10 In-Line Drain (LD)

- A. Measurement for the construction of LDs shall be based on the number of LDs actually installed and accepted.
- B. Payment for furnishing and installing LDs shall be made at the unit price for each LD (inline or offset) furnished and installed. Payment will be full compensation for all drains, including side drain adaptors, grading/regarding, fittings, adaptors, and all transportation, labor, equipment, swale grading (from edge of pavement to right-of-way), any incidental grading/regarding, and all other incidentals required to install the LDs as shown on the Drawings. LD rim elevations depicted in the drawings are approximate, the exact rim elevations shall be field determined per the maximum slopes as defined in the contract documents.

4.11 Junction Box

- A. Measurement for the construction of Junction Boxes shall be based on the number of junction boxes actually installed and accepted.
- B. Payment for furnishing and installing the junction boxes will be made at the contract bid unit price per junction box installed, including, disposal of excess material, field adjustments, cutting, concrete reinforcement work, riser (if required), frame adjustments, grate or cover, swale grading (from edge of pavement to right-of-way), any incidental regrading, any incidental regrading, and all transportation, labor equipment and all other incidentals required to construct the new structure complete in place.

4.12 Private Property Yard Drains

- A. Measurement for the construction of Private Property Yard Drains shall be based on the number of private property yard drains actually installed and accepted.
- B. Payment for furnishing and installing private property yard drains shall be made at the unit price for each private property yard drain furnished and installed. Payment will be full compensation for incidental regrading, fittings, adaptors, and all transportation, labor, equipment, grading/regarding, connections, and all other incidentals required to install the private property yard drains. Private property yard drains shall be NDS 12” Square Catch Basins (Items 1200, 1212, 1206, and 1266) or approved equal.

4.13 Connection to Existing Storm Structure

- A. Measurement for connection of the new stormwater pipe to the existing storm structure, except as otherwise specified, will be based on the number of connections installed and accepted.
- B. Payment for installing the new connection to the existing storm structure will be made at the appropriate contract price (per connection) and shall include all required structure modifications (invert modification and/or new inverts required to complete connection), sawing, grouting, bricking, reinforced concrete, coating, and installation of pipe, fittings, swale grading (from edge of pavement to right-of-way), any incidental regrading, and all other items necessary to make the connection to the existing storm structure.

4.14 Modification of Storm Structure

- A. Measurement for modification to storm structure except as otherwise specified, will be based on the number of existing storm structures modified and accepted.
- B. Payment for modifying storm structures will be made at the appropriate contract price and shall include all required structure modifications, sawing, grouting, bricking, reinforced concrete, coating, and installation of pipe, fittings, swale grading within 15 feet of storm structures (all sides), replacement of grates and chains, any incidental regrading and installation of sod, and all other items necessary to make the modification to the existing catch basin. This bid item does not include modifications necessary to connect to existing structures.

4.15 Mitered End Section

- A. Measurement for Mitered End Section, except as otherwise specified, will be based on the number of mitered end sections installed and accepted.

- B. Payment for mitered end sections will be made at the appropriate contract price and shall include the furnishing and installation of all forms, concrete work, reinforcement for a 2.5:1 'mini' MES, field adjustments, cutting, concrete reinforcement work, riser, swale grading (from edge of pavement to right-of-way), any incidental regrading, any incidental regrading, and all transportation, labor equipment and all other incidentals required to construct the new structure complete in place.

4.16 Swale Grading (not associated with the above pay items)

- A. Measurement for swale grading shall be based on the number of linear feet of swale (as measured from top of bank to top of bank) actually graded and accepted in areas where storm pipe is not installed below the swale.
- B. Payment for swale grading shall be made at the unit price per linear foot of swale graded (from edge of pavement to right-of-way). Payment will be full compensation for all grading to the elevation shown on plans minus the depth of sod (accounting for approved field modifications), disposal of excess spoils, sod, and other incidentals required to grade the swales as shown on the drawings and/or directed by the County. This pay item does not include swale grading associated with the pay items for drainage pipes, catch basins, line drains, junction boxes, private property yard drains, connections to existing storm structures, modifications to existing storm structures, and miter end sections. This pay item is for swale grading outside the limits of any proposed stormwater improvements, including new infrastructure and connections/modifications to existing structures.

4.17 Root Barrier

- A. Measurement for root barrier shall be based on the number of linear feet of root barrier installed and accepted.
- B. Payment for root barrier shall be made at the unit price per linear foot of 48-inch (minimum depth), 4-inch (minimum) reinforced subgrade curb root barrier or approved root barrier panel. Payment will be full compensation for all excavation, root trimming (by a certified Florida Arborist), disposal of excess spoils, sod, and other incidentals required to install the root barrier as shown on the drawings and/or directed by the County.

4.18 Allowance

- A. An allowance is established to cover unanticipated costs including, but not limited to, un-located utilities and unforeseen site conditions. (No additional payment shall be made for rock excavation, replacement of fill material or dewatering). Use of Allowance must be approved by the Collier County prior to the execution of the work. All work must be billed on a time and material price basis as agreed upon by the Contractor, County, CEI, and EOR.

END OF SECTION

SECTION IV

SPECIAL PROJECT PROVISIONS

98th Avenue North and 99th Avenue North Public Utility Renewal

1. Storage of material within the right-of-way is not allowed.
2. The Contractor shall be responsible for obtaining equipment and material staging/storage lots/areas and all necessary permits, ROW, and temporary construction access. For storage areas, the Contractor shall:
 - a. Provide a copy of all Agreement to the County and Engineer of Record.
 - b. Obtain a ROW permit for the storage area.
 - c. Obtain a Temporary Use Permit for the storage area.

Additional conditions/restrictions of staging/storage lot(s):

- d. No storage of excavated material (pipe, structure, concrete, asphalt) in/on staging/storage lot(s).
 - e. No demolition activities including but not limited to processing, sorting, consolidating of pipe, structure, concrete, or asphalt material in/ on staging/ storage lot(s).
 - f. Storage/ staging lot(s) shall meet the following minimum requirements:
 - i. Twenty- four (24) feet wide temporary asphalt driveway from the EOP to at least fifty (50) feet into the property. Asphalt driveway shall be 1" of SP 9. 5 with Optional Base Group 1 (4" of limerock). The contractor shall maintain the temporary surface throughout the duration of the project.
 - ii. Six (6) feet tall chain link fence installed around the entire staging area with five (5) feet setback from side and rear property lines (no setback required at ROW line) and continuous 72" tall privacy/wind barrier/screen (green or black) on all sides, including front and gate. The contractor shall maintain the fence and privacy screen throughout the duration of the project.
 - iii. Lockable access gate.
 - iv. Accessing/utilizing the storage/ staging lot(s) only between 7 am and 7 pm Monday - Saturday), except for emergency work.
 - v. No after hour access. All materials for Owner approved work between 7 pm and 7 am shall be delivered to the work site between 7 am and 7 pm, except for emergency work.
 - vi. Maintained daily including, but not limited to: mowing and weeding, litter removal, fence and screen repair as needed, and daily sweeping and dust control.
3. Two (2) weeks prior to beginning construction, the Contractor shall locate by pot holing or soft digging all utilities within the limits of the project (including sanitary sewer laterals at the ROW line) and provide the County, EOR, and CEI a report (before construction) of the findings at each location that includes the station and offset, location, utility type, depth from grade, size, material, date, time, and a minimum of two (2) pictures (an overall site picture and a picture of the utility found). The Contractor shall mark the found utility with

a wooden lath and ribbon, with the utility type found, size, and depth written on the lath. This shall be reviewed with the County and Engineer to allow adjustment of mains as required to minimize conflicts. If the Contractor fails to complete this requirement, Contractor payment applications will not be approved.

4. All driveways shall be restored to their previous condition or better, according to Collier County Standards. Gravel, dirt, and concrete driveways shall be replaced with reinforced concrete to the edge of the right-of-way and asphalt driveways shall be replaced with asphalt to the edge of the right-of-way, unless otherwise specified on the plans. Concrete driveways shall have a thickened apron and reinforcements on the apron as shown in the plans to prevent cracking. Existing brick pavers shall be placed on pallets, wrapped, and stored onsite to prevent damage. If additional brick pavers are required for restoration, the Contractor shall coordinate with the property owner, County, and CEI to ensure an acceptable matching brick paver is ordered by the Contractor. Decorative and colored concrete driveways shall be restored with color and pattern matching the existing driveway. If a matching color or stamp is unavailable, the contractor shall coordinate with the property owner, County, and CEI to ensure an acceptable (by the property owner, County, and CEI) substitute is used.
5. During construction, the Contractor shall keep one lane of traffic open at all times on all affected roads. Flagmen shall be utilized to assist traffic through the construction zone when two lanes of travel are not provided. Flaggers shall possess a Temporary Traffic Control (TTC) Basic Flagger Certificate per requirements set forth by the Florida Department of Transportation. Access onto existing streets and drives shall be maintained to local traffic, emergency vehicles, delivery vehicles, postal vehicles, public transportation, solid waste and recycling vehicles, and property owners. At all times, access must be provided to existing fire hydrants, valves, meters/backflow devices, manholes, and cleanouts.
6. Manholes shall be installed in the location (horizontal and vertical) in the Contract plans with zero horizontal and vertical tolerance, unless approved otherwise by Collier County.
7. Minimum access diameter for manholes is 24-inches per FDEP requirements. Contractor is responsible for providing manhole ring and covers with a minimum access diameter of 24-inches. Contractor must provide submittal to EOR and County for review prior to procurement of manhole ring and cover.
8. After the first lift of asphalt is installed, all manholes shall be provided with a 1:1 (max) asphalt bevel around the ring to provide a slope for vehicle tires over the manholes.
9. After final paving, Contractor shall grade, as necessary, and re-sod east shoulder of Vanderbilt Drive, north and south (150 feet) of avenue work.
10. Notification of road closures must be provided in writing to the Collier County Sheriff's Office and the North Collier Fire Rescue District at least 72 hours in advance of the road closures. Road Closure notification forms shall be submitted to the Collier County Growth

Management Department each week. Access to each residence and business shall be maintained for emergency vehicles at all times. At no time may a roadway be blocked at two locations within one block. Contractor must provide a road closure plan and schedule for review by the County, EOR, and CEI 7 days prior to all proposed road closures.

11. The Contractor shall coordinate with the following agencies, above and beyond the Collier County Road Alert, throughout the duration of construction: USPS, Collier County Sheriff's Office, Fire Department and EMS, Waste Management (garbage and recycling), and Collier County Public Schools (school bus routes). Additionally, if required by the USPS, a "mailbox bank" shall be installed by the Contractor at no additional charge.
12. Reinforced polymer concrete manholes shall be used for each manhole installation for this project. All reinforced polymer concrete structures shall meet the requirements set forth in the Collier County Technical Specifications Sections 034100 and 333913. Please reference the County's Approved Product List found in Appendix F of the Collier County Public Utilities Standards and Procedures for approved reinforced polymer concrete manhole manufacturers. All reinforced polymer concrete manholes shall have a 2-inch (minimum) Factory Cast Concrete Collar at the manhole base.
13. All cuts and modifications made to the reinforced polymer concrete manholes must be repaired and formed with a pre-proportioned Epoxy Polymer concrete prepared and installed according to the manufacturer's specifications.
14. The Contractor shall televise all existing sanitary sewer laterals, with a portable push camera system from the existing main to the private property cleanouts at each home/structures to determine the material and size of the existing private sanitary sewer lateral. The camera system shall have a 1 -inch diameter tip, 50 foot (min) insertion probe, flexible video camera head with bright LED lighting, and a 6" (min) TFT LCD color monitor. The results shall be logged by the Contractor, including, size, material, and location, and provided to the County, CEI, and EOR. The location of the new sanitary sewer lateral, including the point of connection to existing piping shall be marked in the Contractor's provided red line as-builts.
15. Televising of the Contractor installed sanitary sewer mains and laterals (from the main to the property line cleanout) shall occur after the road limerock base is compacted. Results shall be made available to the County, CEI and Engineer of Record after the road limerock base is compacted and prior to the placement of the first lift of asphalt.
16. All couplings used between dissimilar wastewater gravity pipes (mains and services) shall be Hymax.
17. The Contractor shall notify Collier County Utilities Department at least ten (10) calendar days in advance of all planned service interruptions and receive County Project Manager's approval before proceeding with planned interruptions.

18. Contractor shall assume all existing mains are unrestrained at the connection points and will restrain the mains in accordance with the Collier County Water-Sewer District, Utilities Standards Manual.
19. Work shall be limited to 7:00 AM to 7:00 PM Monday through Saturday. Saturday work requires approval by the Collier County Project Manager, the Contractor must request Saturday work by 12:00 PM on the Thursday before Saturday work is proposed. No work shall be permitted on Sundays and County Holidays without prior approval. Please see the following link for Collier County's Holidays:
https://www.colliervotes.gov/Portals/Collier/Documents/pdf/2021-2022%20Elections/Holiday%20Schedule%202022.pdf?ver=dIT_Ra3Jem74KXZZRkpnA%3D%3D
20. Contractor's site superintendent(s) must attend all meeting relating to the project, including, but not limited to: progress meetings, neighborhood information meetings, on-site meetings, and any other meeting deemed necessary by Collier County.
21. All Collier County Water-Sewer District, Utilities Standards (design criteria, specifications, and details) are applicable to this project and are made part of the Contract Documents by reference to current County Utilities Standards, located at the following web address: <https://www.colliercountyfl.gov/government/public-utilities/water-sewer-district/engineering-and-project-management/resources>. In the event of a conflict between any applicable standard and these specifications and drawings, the more stringent requirement shall apply.
22. Contractor shall be responsible for all costs associated with installing and testing of all compact fill materials and road base and sub-base to avoid future settlement. Within paved areas, at a minimum, backfill and compaction shall be per detail FDOT Index 125-001 and Specifications Section 125. Perform compaction density tests at all such backfill areas with spacing not to exceed 100 feet apart and on each compacted layer for paved areas. For unpaved areas, compaction shall be per FDOT index 125-001 and testing shall take place a minimum of every 500 feet, or a minimum of one test per every section of pipe laid. Compaction testing density shall be per ASTM D 1557.
23. Contractor shall be responsible for all inspection and testing unless otherwise specified. For tests to be made by the Contractor, the testing personnel shall make the necessary inspections, furnish all material and equipment to properly perform the testing, and furnish all results to Collier County for acceptance of all equipment and installation as required.
24. Contractor shall be responsible for the cost of all testing as required.
25. New water main and service piping (from main to curb stop at meter) shall be constructed, pressure tested, flushed (full bore), and bacteriologically cleared for FDEP clearance.
26. Contractor to pre-test all pressure piping and meet AWWA C600-17 (or current edition) allowable loss standards for a minimum of one hour before commencing the pressure test.

27. Flushing (full bore and dechlorination) and water from dewatering operations shall not enter the US41 ROW and/or drainage system.
28. The Contractor shall provide for review by the Owner and Engineer a detailed sequence of construction that identifies how new gravity sewer and service laterals will be installed, as well as system testing, while keeping the existing system in service.
29. Clearing and grubbing shall be limited to work areas only. Contractor shall be responsible for restoring all areas disturbed by his work. All disturbed areas shall be restored to pre-construction conditions. Contractor shall be required to water vegetation replaced until established/rooted.
30. Trees and shrubs within the work area shall be removed as directed by Collier County and/or the property owner. Irrigation shall be fully restored from ROW to ROW. No additional payment shall be made for restoration per the ROW standards.
31. All fences damaged/removed outside the limits of the ROW shall be restored to their original conditions.
32. In accordance with the Collier County requirements, a pre-construction video (dry and wet conditions) shall be taken with copies provided to the County and Engineer. Contractor shall supplement these videos with still photographs (in addition to the pictures required in the Pre-Construction Assessment Forms) as necessary to reflect existing conditions. This shall include but not be limited to sod type, driveways and driveway culvert, and driveway conditions from the ROW to the property structure. The Contractor may be required to restore private properties to conditions better than existing, at no additional cost to the County, if the Contractor fails to sufficiently document existing conditions.
33. Prior to beginning construction, the Contractor shall submit for each property a Pre-Construction Assessment Form prior to commencement for the phase of work during which the property will be impacted. The Pre-Construction Assessment Form is included in Section IX of this document. An editable electronic version of the form will be provided to the Contractor. Each form shall be prepared electronically and submitted as an un-editable PDF to the County. The file name shall reflect the property address in the following format: Street Name, Property Number (i.e. 98th Avenue, 727.PDF) Duplexes and properties with multiple addresses per legal parcel shall be submitted as separate sheets in the following format: Street Name, Legal Property Number, Type of residence (duplex, apartment, etc.), Street Number on building (i.e. 98th Avenue 727, Duplex 731.PDF).
34. Contractor shall be responsible for all construction layout and preparation of Record Drawings in accordance with County requirements. This shall include but not be limited to water main, valves, fire hydrants and services, gravity sewer laterals, approved changes, and stormwater.

35. Contractor shall contact all utility suppliers, including but not limited to Collier County, Comcast, Summit Broadband, Inc., Florida Power & Light, and CenturyLink for locating of their facilities. Contractor shall coordinate with these utilities for protection and adjustment of their facilities as needed. All costs shall be included in individual bid items.
36. Contractor shall be responsible for all Maintenance of Traffic for the project. Maintenance of Traffic shall be in accordance with the FDOT Standard Index and the Manual of Uniform Traffic Control Devices (MUTCD, Part VI). Existing traffic conditions may warrant night work. If night work is required, the Contractor will be responsible for proper MOT at no additional cost.
37. All sign related work to be coordinated with Felix Burgos, 239-252-5179, to maintain integrity of our Sign asset database. Contractor to follow Traffic Operations Signing and Pavement Markings Special Provision details which indicate using a 2.5" x 2.5" galvanized metal square tubular sign post.
38. The Contractor shall replace all signs with new signs, posts, and hardware to meet current Collier County and FDOT specifications/standards. All removed signs shall be returned to Collier County Traffic Operations at 2885 Horseshoe Drive South, Naples, FL 34104.
39. Contractor shall replace striping to meet current Collier County and FDOT specifications/standards; all striping shall be thermoplastic.
40. The Contractor shall be responsible for maintaining all work areas in a safe and clean manner as identified in the County Utilities Standards Manual. This shall include but not be limited to daily watering and intermediate watering as needed of bare soil roadways and sweeping of roadway and sidewalk surfaces.
41. Pedestrian access and transit shall be provided at all times during construction and restoration (permanent or temporary) of the sidewalks on the north/south streets must be completed within 7 calendar days of the sidewalk being removed. Temporary sidewalk restoration shall be firm, stable, and slip resistant (compacted limerock or asphalt).
42. If road/driveway dewatering ramps are utilized at roadways/driveways, the contractor shall provide barricades on either side of the ramps to protect/warn vehicles from driving over manifolds/connection sections on either side of all ramps.
43. Private property yard drains shall be NDS 12" Square Catch Basins (Items 1200, 1212, 1206 and 1266) or approved equal: <https://www.ndspro.com/PDFs/Brochures/1200NGB-Next-Generation-Catch-Basin-Brochure.pdf>.
44. All excavation shall be unclassified with no additional payment to be made for rock, unsuitable material, dewatering. The Contractor shall be responsible for making his own site observations and exploration to determine site conditions prior to bidding.

45. The Contractor shall prepare and provide for review by the Owner and Engineer an MOT Plan, Asbestos Removal Plan, Tropical Storms and Hurricanes Plan, Sewer Bypass Plan, and Safety Program/Risk Management Program prior to construction commencement.
46. The contractor is responsible for providing a third-party independent consultant to perform vibration monitoring adjacent to existing homes and structures during all construction activities. The monitoring equipment shall be located within the equipment manufacturers allowable tolerance distance from construction activities at all times. All monitoring shall be done at the limits of the right-of-way. Reports shall include location of the equipment, time, and maximum PPV, either once per day, if the vibration monitor is not relocated, or upon each relocation of the vibration monitoring device. Upon either detecting vibration levels reaching 0.5 inches per second or damage to the structure, immediately stop the source of vibrations, backfill any open excavations, notify the Engineer and provide a corrective action plan for acceptance by the Engineer. Vibration monitoring and reporting shall follow the U.S. Bureau of Mines standards and reports shall be signed and sealed by a State of Florida Professional Engineer and delivered weekly to the County, EOR, and CEI. The Contractor's qualified subcontractor shall be the only party allowed to determine the proper location for monitoring and setting up the vibration monitoring equipment. Vibration monitoring reports, signed and sealed, shall include a statement whether or not the recorded levels met or did not meet 0.5 inches per second and the recommended levels stated in the U.S. Bureau of Mines, R18507 *Structural Response and Damage Produced by Ground Vibration from Blasting*. If at any time a structural damage complaint is received by the County, the Contractor shall, within 2 business days provide, a signed and sealed vibration monitoring report for the affected area.
47. The Contractor is responsible for restoration of areas damaged outside of the work area if the damage is a result of the construction including, but not limited to, detours and construction traffic non-contiguous to the project area, offsite construction storage areas, receiving water bodies, etc.
48. The Contractor shall conform to the requirements in Collier County Ordinance 2019-17: An Ordinance providing for establishment of a water pollution control and prevention ordinance, providing for repeal of Ordinance No. 87-79, as amended, and resolution No. 88-311: providing for inclusion in the Code of Laws and Ordinances; providing for conflict and severability; and providing for an effective date. This includes within the project area and outside of the project area, i.e. storage/staging lot(s).
49. It is recommended that the Contractor review and follow the recommendations for field measuring turbidity in the following FDEP SOP FT1600:

<https://www.youtube.com/watch?v=k6x22q9uoAY&feature=youtu.be>
50. The Contractor shall coordination with all other Contractors within the project limits for work within the ROW and/or private property and shall make accommodations to not inhibit work by other Contractors.

SECTION V

PERMITS

98th Avenue North and 99th Avenue North Public Utility Renewal

The following Permits for the Project will be obtained by Collier County or are the Contractor's responsibility to obtain, as noted below. Copies of all obtained Permits shall be made available to the Contractor. It shall be the Contractor's responsibility to read and understand all Permit and Permit Conditions.

1. FDEP Dewatering: The Contractor shall be required to obtain coverage under the Florida Department of Environmental Protection (FDEP) Generic Permit for Discharge of Groundwater from Dewatering Operations prior to discharging produced groundwater from dewatering activities. Alternatively, the Contractor may elect to obtain coverage under the Generic Permit for Stormwater Discharge from Large and Small Construction Activities, which will cover both construction and dewatering operations.
2. Collier County Temporary Use Permit (for storage areas) - To be submitted by the Contractor.
3. Collier County ROW Permit - To be submitted by the County with coordination from the Contractor.
4. FDEP Permit to Construct PWS Components: permit # 365281-132-DS obtained on April 15, 2022.
5. FDEP Wastewater Permit: Self-certification for an exempt domestic wastewater system received on March 4, 2022.
6. SFWMD Environmental Resource Permit Letter Modification: permit # 11-03812-W obtained on September 23, 2016 & exemption # 11-106801-P obtained on April 7, 2022
7. SFWMD Dewatering Permit Letter Modification and Extensions – permit # FLG073396 obtained on August 4, 2022.

SECTION VI

98TH AVENUE NORTH AND 99TH AVENUE NORTH
PUBLIC UTILITIES RENEWAL

MATERIAL DELIVERY/RETURN CONFIRMATION

NOTE: This form is to be completed by Contractor and County Representative at time of all material delivery to site and at time of all pick up of returned materials. All material shall be reviewed for condition, type, size and quantity. Delivery or pick-up tickets should be attached to form.

DATE: _____

COUNTY REPRESENTATIVE: _____

CONTRACTOR REPRESENTATIVE: _____

MATERIAL DELIVERY OR PICKUP: _____

DELIVERED OR PICKED UP BY: _____

MATERIAL (LIST BELOW)

	<u>ITEM</u>	<u>SIZE</u>	<u>QUANTITY</u>	<u>COMMENTS</u>
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

PROVIDE ADDITIONAL COMMENTS AS NECESSARY: _____

County Representative

Contractor Representative

SECTION VII

RISK MANAGEMENT DEPARTMENT ASBESTOS REMOVAL PLAN



SUBJECT: ASBESTOS REMOVAL & CONTRACTOR OPERATIONS

REFERENCE: CMA 5902 & ALL APPLICABLE STATE, LOCAL, COUNTY & FEDERAL REGULATIONS

EFFECTIVE DATE: 10/27/10

REVISION DATE: 7/2017

Purpose

This Asbestos Removal and contractor operations Written Plan establishes Collier County's requirements for the safe work practices whenever asbestos containing material and/or suspected asbestos containing material is disturbed. This may include the demolition of buildings, insulation materials, underground piping, etc. This written program applies to all asbestos removal operations performed within Collier County Government where employees may encounter asbestos or suspected asbestos containing material as part of their job duties. This plan also outlines the minimum requirements our contractors must follow when encountering asbestos or suspected asbestos containing material during demolition, insulation removal and/or underground piping repair, replacement or removal.

Scope

The control of asbestos removal via written programs and task procedures, such as JSA's are only one component of assuring "cradle to grave" control over the safe and environmentally responsible removal of asbestos. Therefore, affected departments have the responsibility in conjunction with Risk Management to ensure the work they perform as well as the work performed by contractors is completed according to all applicable OSHA, EPA, FDEP and/or DOT regulations. This plan is intended for Collier County buildings, utilities and property under control of the board of County Commissioners and is not designated for asbestos identification and/or removal activities within public schools operations that are regulated under 40 CFR part 763 Subpart E.

Administrative Duties/Responsibilities

Collier County's Risk Management Department has developed this written plan and maintains the master copy of this asbestos removal plan. This department is responsible for all facets of the master plan and has full authority to make necessary decisions to ensure the success of this plan. Collier County's Safety staff is also qualified, by appropriate training and experience that is commensurate with the complexity of the plan, to administer or oversee our asbestos removal written plan, which includes shutting down any operations that do not meet BCC/Local/State or Federal EHS Regulations, Guidelines or Best Practices.

Department / Site-Specific Plans

The master plan does not contain all site-specific additions to this master plan. Development, maintenance and revision of site-specific plans are the responsibility of each affected department and will vary by department. Site-specific Plans shall be developed using a "Department Insert" to accompany the master copy of this plan.

Records Retention

- Each facility/department is responsible to maintain copies of all forms indefinitely. Where revisions are made to their site-specific plan, the outdated document shall be retained indefinitely.
- Each facility/department is responsible to maintain copies of all employee training lists, waste disposal manifests and any inspection forms indefinitely.

The Risk Management Department maintains a copy of the master plan and copies of completed and submitted site-specific plans. Each affected department is responsible for maintaining the master plan and a site-specific plan and that the Contractor has a copy of the plan.

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Section I Definitions

Asbestos: includes chrysotile, amosite, crocidolite, tremolite asbestos, anthophyllite asbestos, actinolite asbestos, and any of these minerals that has been chemically treated or altered.

Asbestos-Containing Material (ACM): any material containing more than one percent asbestos.

Class I Asbestos Work: the removal of thermal system insulation and/or surfacing material (ACM or PACM).

Class II Asbestos Work: removal of any ACM which is not Class I, such as wallboard, floor tile, ceiling tile, linoleum, transite board, roofing materials and mastics.

Class III Asbestos Work: repair and maintenance operations where ACM is likely to be disturbed.

Class IV Asbestos Work: maintenance and custodial activities during which employees contact but do not disturb ACM, and activities to clean up dust and debris which may be generated by Class I, II, or III work.

Clearance Air Monitoring: Air monitoring conducted by an Asbestos Project Monitor at the conclusion of an asbestos project. Clearance air monitoring includes the successful completion of a final visual inspection for work area debris and the collection and analysis of air samples in accordance with AHERA protocols.

Competent person means, in addition to the definition in 29 CFR 1926.32 (f), one who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, as specified in 29 CFR 1926.32(f): in addition, for Class I and Class II work who is specially trained in a training course which meets the criteria of EPA's Model Accreditation Plan (40 CFR 763) for supervisor, or its equivalent and, for Class III and Class IV work, who is trained in a manner consistent with EPA requirements for training of local education agency maintenance and custodial staff as set forth at 40 CFR 763.92 (a)(2).

Demolition - The wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning (i.e. practice burns) of any facility.

DOT – U.S. and/or Florida Department of Transportation

EPA – U.S Environmental Protection Agency

FDEP – Florida Department of Environmental Protection

Friable Asbestos Containing Material: any material containing more than one percent asbestos, which when dry, may be crumbled, pulverized or reduced to powder by hand pressure.

High Efficiency Particulate Air (HEPA) Filter: a filter capable of trapping and retaining at least 99.97 percent of all mono-dispersed particles of 0.3 micrometers in diameter.

Negative Exposure Assessment (NEA): a demonstration by the employer, which complies with the criteria in OSHA 29 (CFR) 1926.1101 paragraph (f) (2) (iii), that the employee exposure during the monitored operation is expected to be consistently below the PELs.

Non-Friable Asbestos Containing Material: materials in which asbestos is bound in a matrix which cannot, when dry, be crumbled, pulverized or reduced to powder by hand pressure (such as floor tile and asphaltic building materials).

NESHAP – EPA mandated National Emissions Standards for Hazardous Air Pollutants

OSHA – U.S. Occupational Health and Safety Administration

Permissible Exposure Limits (PELs): (1) Time Weighted Average (TWA): the employer shall ensure that no employee is exposed to an airborne concentration of asbestos in excess of 0.1 fiber per cubic centimeter as an eight (8) hour time weighted average. (2) Excursion Limit (EL): the employer shall ensure that no employee is exposed to an airborne concentration of asbestos in excess of 1.0 fiber per cubic centimeter of air as averaged over a sampling period of thirty (30) minutes.

Presumed Asbestos Containing Material (PACM): thermal system insulation and surfacing material in buildings constructed no later than 1980, are assumed to contain asbestos until it has been analyzed to verify or negate its asbestos content.

Regulated Asbestos Containing Material: (RACM) is (a) friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Regulated Area: means an area established by the employer to distinguish areas where airborne concentrations of asbestos exceed or there is a reasonable possibility that they may exceed the permissible exposure limits.

Renovation - Altering a facility or one or more facility components in any way, including the stripping or removal of Regulated Asbestos Containing Materials (RACM) from a facility component. A renovation could be, but not limited to, any interior renovation or remodel not affecting load-supporting structural members or a roof replacement.

Vinyl Asbestos Floor Tile (VAT): vinyl floor tile and in some cases its mastic which contain more than one percent asbestos and must be handled as ACM.

Section II – Applicable Regulatory Requirements

OSHA – 29 CFR 1910.1001 - Worker protection measures-engineering controls, worker training, labeling, respiratory protection, bagging of waste, permissible exposure level.

OSHA – 29 CFR 1926.1101 - Worker protection measures for all construction work involving asbestos, including demolition and renovation-work practices, worker training, bagging of waste, permissible exposure level.

DOT – 49 CFR Parts 171 and 172 - Regulates the transportation of asbestos-containing waste material. Requires waste containment and shipping papers.

EPA – 40 CFR Part 61 Subpart M – Regulates disposal activities in regards to emissions standards for manufacturing and removal of asbestos.

EPA – 40 CFR Part 763 Subpart G - Protects public employees performing asbestos abatement work in States not covered by OSHA asbestos standard.

EPA – 40 CFR Part 763 Subpart E – Sets forth training requirements for asbestos workers performing work in Schools, Public Buildings, or Commercial Buildings.

F.A.C. – 62-257 – Florida Department of Environmental Protection asbestos removal program

FS Section 469 – Licensing Requirements

Section III –Inventory, Surveillance, and Notification

Collier County Departments are required to maintain an Inventory of all asbestos containing material (appendix A). All accessible functional spaces with known or suspected asbestos containing materials other than flooring are required to be visually inspected at a minimum of twice a year. Spaces with known or suspected asbestos containing flooring are inspected once per year. The current condition of the asbestos containing material is evaluated relative to its condition at previous surveys. Deterioration or a change in the condition of any asbestos containing material is documented. If this deterioration results in a significant health risk to building occupants the deteriorated area is scheduled for hazard abatement.

Inspections are performed by individuals who are currently certified as EPA Asbestos Building Inspectors or who have been trained to recognize asbestos hazards. Each affected department is responsible to ensure that properly trained personnel are available for inspections. This person or persons shall be designated on their Department/Site-Specific Insert that accompanies this master plan.

Buildings presumed to contain asbestos containing materials are posted with a notice sign alerting occupants to the presence of asbestos and guidance on where to find further information. These notices are posted inside of the buildings near the entrances.

Contractors performing work on a Collier County Building or utility that contains asbestos are notified about the presence of asbestos containing materials.

An updated asbestos survey, identifying both friable and non-friable asbestos containing materials, must be conducted of any building or section of a building that is scheduled for renovation or demolition. A draft copy of the survey must be reviewed by the Risk Management for completeness prior to accepting the final product. A copy of the updated survey must be kept on site until the renovation or demolition activities are completed. The survey must be conducted under the supervision of a Florida licensed asbestos consultant. Individuals performing asbestos surveys must be certified as EPA asbestos inspectors through a Florida approved training provider.

Occupants of areas adjacent to planned asbestos removal projects must be notified prior to the start of removal activities. This notification may be in writing or by personal communication and must include information pertaining to what material is being removed and what measures are being taken to prevent exposure to asbestos fibers.

Section IV – Training Requirement

There are various levels of training required depending on the type of involvement with asbestos materials. Each department is responsible for ensuring employees are trained for their level of asbestos involvement. Environmental Health and Safety staff can guide and assist in training. Documentation of training activities must be provided to the Risk Management office.

Awareness Training - This is the most basic level of training, and is required for custodial and maintenance employees assigned to a building or utility containing asbestos or presumed asbestos containing materials.

Class I or Class II- Employees who will be removing or disturbing asbestos or presumed asbestos containing materials must be trained equivalent in curriculum, training method and length to the EPA Model Accreditation Plan asbestos abatement worker training. The state of Florida requires at a minimum this course be four days in length.

Class II Cement piping – All workers must have completed an approved 8 hour class II Cement Piping Removal course

Class III or Class IV– Employees must be trained in aspects of asbestos handling appropriate for the nature of the work, to include procedures for setting up glove bags, and mini enclosures, practices for reducing asbestos exposures, use of wet methods, the content of OSHA Construction Standard for Asbestos, and the identification of asbestos. Such training shall include successful completion of a course that is consistent with EPA requirements for training of local educational agency maintenance and custodial staff as set forth at 40 CFR 763.92(a)(2), or equivalent.

Other Requirements – Employees involved in class I, II, or III asbestos work must also have medical clearance, be properly fitted, and instructed in the usage and care of a respirator, be enrolled in the collier county medical surveillance program as outlined in section VI.

Section V - Use of Personal Protective Equipment

Respiratory Protection – Respiratory protection must be worn at all times during any work that may or has the potential to disturb asbestos. At a minimum the respiratory requirements are a 100 percent efficiency HEPA filter.

Eye protection – Goggles must be worn at all times during any work that may or has the potential to disturb asbestos

Protective Clothing – Protective clothing must be worn at all times during asbestos work. At a minimum this includes a Protective suit (i.e. Tyvek), disposal inner and outer gloves, a disposable hood, and boot covers.

Decontamination – All clothing worn during asbestos work must be discarded or decontaminated once the work is complete. All disposed clothing will be wrapped with the asbestos containing material and disposed of in a similar way. At a minimum staff must decontaminate equipment such as tools and respirators with light soap and water.

Example: Contaminated clothing, gloves and material wrapped securely in 6 mil or thicker plastic, and then adequately taped to ensure no contaminated material can escape.

Section VI – Medical Surveillance

It has been determined that Collier County Government does not have any division, department or section/location that performs asbestos work for a combined total of 30 days or more per year or are exposed above the permissible exposure or excursion limit. Therefore, the following medical requirements are only listed should the agency meet the below listed requirements in the future.

Medical examinations and consultations are required for all employees who are engaged in asbestos work for a combined total of 30 or more days per year or; are exposed at or above the permissible exposure limit or excursion limit; and for employees who wear negative pressure respirators. Days when fewer than sixty minutes of asbestos work are completed are not included in the 29-day count.

These examinations are repeated at least annually thereafter. If the examining physician determines that any of the examinations should be provided more frequently than specified, affected employees will be examined at the frequencies specified by the physician.

Medical examinations include a medical and work history, with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems. Along with a pulmonary function test, any examinations or tests deemed necessary by the examining physician will be included. A copy of the medical questionnaire can be found in appendix E.

Information Provided to the Physician

The following information must be provided to the physician by the employee's supervisor before the physical.

- A description of the affected employee's duties as they relate to the employee's exposure.
- The employee's representative exposure level or anticipated exposure level.
- A description of any personal protection equipment to be used by the employee.
- Any information from previous medical examinations of the affected employee that is not otherwise available to the examining physician.

Physician's Written Opinion

The examining physician provides a written statement consisting of the physician's opinion whether the employee has any detected medical conditions that would place the employee at an increased risk of health impairment from exposure to asbestos. Any recommended limitations on the employee, or on the use of personal protective equipment such as respirators, will be noted in the opinion.

The opinion will also include statements that the employee has been informed by the physician of the results of the medical examination, and any medical conditions that may result from asbestos exposure. A statement will also be included that the employee has been informed by the physician of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

The physician will not reveal in the written opinion specific findings or diagnoses unrelated to occupational exposure to asbestos. The supervisor will provide a copy of the physician's written opinion to the affected employee within 30 days from its receipt.

Section VII – FDEP Notification Requirements

The Florida Department of Environmental Protection (DEP) administers an asbestos removal program under Chapter 62-257, Florida Administrative Code. The program's intent is to prevent the release of asbestos fibers to the outside air during demolition or renovation activities.

The program requires prior notification to the DEP on the removal of threshold amounts of asbestos from certain types of facilities. These thresholds are noted below under the renovation and demolition sections. In the event that a threshold is met and notification is required there is a 10 day waiting period from the time DEP has been notified to when renovation

can begin. The waiting period is not required if the removal is for emergency purposes, if the removal is an emergency operation then notification shall be provided to the DEP within 24 Hours.

Renovation - Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations must be followed for all renovations of facilities with at least 80 linear meters (260 linear feet) of regulated asbestos-containing materials (RACM) on pipes, or 15 square meters (160 square feet) of regulated asbestos-containing materials on other facility components, or at least one cubic meter (35 cubic feet) off facility components where the amount of RACM previously removed from pipes and other facility components could not be measured before stripping. These amounts are known as the "threshold" amounts.

Demolition - Asbestos NESHAP regulations must be followed for demolitions of facilities with at least 80 linear meters (260 linear feet) of regulated asbestos-containing materials (RACM) on pipes, 15 square meters (160 square feet) of regulated asbestos-containing materials on other facility components, or at least one cubic meter (35 cubic feet) off facility components where the amount of RACM previously removed from pipes and other facility components could not be measured before stripping. However, all demolitions must notify the appropriate regulatory agency, even if no asbestos is present at the site, and all demolitions and renovations are "subject" to the Asbestos NESHAP insofar as owners and operators must determine if and how much asbestos is present at the site.

If Category II non-friable ACM has not crumbled, been pulverized or reduced to powder and will not become so during the course of demolition/renovation operations, it is considered non-friable and therefore is not subject to Asbestos NESHAP or FDEP notification requirements. However, if during the demolition or renovation activity it becomes crumbled, pulverized or reduced to powder, it is covered by the Asbestos NESHAP and FDEP requirements.

Prior to all renovation, demolitions, or removal of asbestos contact the Risk Management Department for further regulatory guidance.

Section VIII – Removal and Handling Requirements

A department/Site-Specific program insert must be developed for each new removal task. Where each task is similar in nature, a common procedure, such as a Job Safety Analysis may suffice for the department/site-specific insert.

Regulated area – The area around where the work is being performed must be marked off as a regulated area and can be accessed by individuals who are trained, qualified, and wearing appropriate PPE. There must be signs posted around the work site that are clearly visible, and state the following:

**DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONEL ONLY**

Where the use of respirators and protective clothing is required in the regulated area the warning sign shall include:

**RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA**

Class I - This is work involving the removal of thermal system insulation, or surfacing material, and typically will not be performed by Collier County employees.

Class II - Where a negative exposure assessment cannot be documented, or where during the job conditions indicate there may be exposure above the PEL, or where the asbestos containing material cannot be removed in a substantially intact state, a negative pressure enclosure must be used. These barriers are necessary to prevent the migration of airborne asbestos from the regulated area. The effectiveness of the barriers should be verified by perimeter area monitoring or visual surveillance. Class II work also may be performed using a method allowed for Class I work, and glove bags and glove boxes are allowed if they fully enclose the Class II material to be removed. Impermeable drop cloths must be placed on surfaces beneath all removal activity. For Class II work the competent person must be specially trained in a course that meets the criteria of EPA's Model Accreditation Plan (40 CFR 763) for project supervisor, or its equivalent.

Specialized Class II Work

Removing Vinyl and Resilient Flooring Materials - This work requires specialized training provided, or approved, by the University of Florida Asbestos Coordinator. Flooring or its backing is not to be sanded, ground abraded or intentionally broken or chipped. Vacuums equipped with High Efficiency Particulate Air (HEPA) filter, disposable dust bag, and metal floor tool (no brush) shall be used to clean floors. Resilient sheeting shall be removed by cutting with wetting of the snip point and wetting during removal. Rip-up of resilient sheet floor material is prohibited. All scraping of residual adhesive and/or backing shall be performed using wet methods. Dry sweeping is prohibited. Mechanical chipping is prohibited unless performed in a negative pressure enclosure. Tiles must be removed substantially intact.

Roofing Material - This work requires specialized training approved by the Risk Management Department. When removing roofing material that contains asbestos, remove the roofing material in an intact state to the extent feasible. Cutting machines shall be continuously misted during use, unless the competent person determines that misting substantially decreases worker safety. All loose dust left by the sawing operation must be HEPA vacuumed immediately. Cutting of cement asbestos (Transite®) is prohibited without permission from the Risk Management Department. Unwrapped or unbagged roofing material must be immediately lowered to the ground by way of covered, dust-tight chute, crane or hoist, or placed in an impermeable waste bag or wrapped in plastic sheeting and lowered to ground by the end of the work shift. Upon being lowered, unwrapped material shall be transferred to a closed receptacle in such manner to preclude the dispersion of dust. Roof level heating and ventilation air intake sources shall be isolated or the ventilation system shall be shut down.

Cement piping – Removal of cement piping for maintenance activities is a common practice in Collier County Public Utilities Division. If the work is being conducted by Collier County Employees then the department specific plan and all required JSA's for such work shall be followed at all times. In the event the work is being conducted by a contractor the contractor is subject to all applicable State, local, and Federal Regulations.

Class III

All class III asbestos work that can include a process that has the potential for disturbing a process must be evaluated by Risk Management prior to work being completed. If it is determined that the work will cause a disturbance then Class II procedures will be followed.

Section IX – Contractor Requirements

Work is to be performed in accordance with the 29 CFR 1926.1101 (OSHA Asbestos Construction Standard), 40 CFR 61 Subpart M (EPA NESHAP Regulations), and any other applicable Federal, State, and County regulations.

All contractors performing asbestos work must be in compliance with all state licensing requirements for the type of work they are performing. Prior to conducting any work on asbestos containing materials contractors must submit proof of qualified personnel, all contract employees must be trained in accordance with OSHA and EPA requirements.

All contractors that will be performing work on any asbestos containing material must submit an Asbestos Abatement Work Plan to the county department work is being performed for and the Risk Management Department for approval. The work plan must include: licensing, employee training, handling, storage, and disposal of asbestos containing material as referenced within the applicable OSHA and EPA/FDEP Regulations. This plan must be approved by the Risk Management Department prior to any work being completed.

For contractors that provide emergency repair services an Asbestos Abatement Plan must be submitted as outlined above on an annual basis.

All contractors must be in compliance with Section X Disposal Requirements.

Section X – Disposal Requirements

All asbestos containing materials that reside on Collier County Property and Utilities are under the ownership of the county. Federal disposal regulations set forth cradle-to-grave responsibility with asbestos as a hazardous material. Therefore the responsibility of proper disposal is ultimately that of Collier County. All shipments and disposal of Asbestos

must be accompanied by and Non-Hazardous Waste Manifest (Appendix B). All disposal of asbestos must be in accordance with State, Local, Federal regulations and Collier County requirements.

Documentation – Documentation of disposal is done by each department or contractor utilizing the Non-Hazardous Waste Manifest. The department that was responsible for the oversight of the asbestos project is responsible for maintaining copies of the manifest. All return documentation of disposal must be received back by the required department within 30 days. If documentation has not been received in 30 days Risk Management must be notified. All documentation for asbestos disposal must be retained by the department conducting disposal. These forms shall be kept on site indefinitely.

Packaging – All Asbestos being disposed must be wetted, concealed tightly, labeled with the amount of asbestos in either cubic ft or linear ft, and the specific location it came from. All packages must be labeled as shown below:

**DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND DISEASE HAZARD**

Shipping – Regulated Asbestos shall never be shipped by Collier County Employees in any amount greater than 1000 lbs. Any shipment that exceeds this requirement is subject to Department of Transportation Requirements as a class 9 hazardous material.

Disposal – All asbestos must be delivered and handled by qualified and trained employees. Prior to disposal of asbestos a pre planned landfill disposal site must be determined; the site must have legal authority to accept asbestos containing materials. As soon as disposal is anticipated the department asbestos coordinator should contact the disposal site and schedule a drop of date. Disposal of asbestos is usually conducted at a pre determined time, date, and location, this determination is given by the disposal site. Collier County employees must follow the direction of the disposal site and only deliver materials to a location determined by the site. Prior to leaving Collier County employees must have the landfill operator or representative sign the Non Hazardous Waste Manifest. A copy of the manifest must be returned and filed appropriately.

Contractors – No contractor is to engage in the handling, storage, or disposal of asbestos without prior approval by the Department managing the contract and Risk Management Department.

Section XI – Prohibited Practices

All Collier County Employees are prohibited from performing any work on or around asbestos without proper training, medical clearance, and PPE as required by this document. All department specific written plans, JSA's, and standard operating procedures must be approved by Risk Management prior to being put into place.

Applicable Documents / References

CMA 5902 health and Safety Policy
Water Department Main Break JSA
Respiratory Protection Written Plan
Protective Eyewear Countywide JSA # 1
Site/Project Specific Asbestos Management Plan

Appendix B: Non-Hazardous Waste Manifest

Please print or type
Form designed for use on 8 1/2 x 11 inch paper

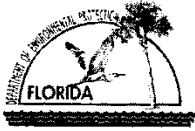
NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address				
4. Generator's Phone ()				
5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone		
11. Waste Shipping Name and Description		12. Containers No. | Type	13. Total Quantity	14. Unit W/Vol
a.		. . .	. . . . .	. . .
b.		. . .	. . . . .	. . .
c.		. . .	. . . . .	. . .
d.		. . .	. . . . .	. . .
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name		Signature		Month | Day | Year . | . | .
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month | Day | Year . | . | .
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month | Day | Year . | . | .
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name		Signature		Month Day Year . . .

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Neenah, WI 54957-0388

ORIGINAL – RETURN TO GENERATOR

12-BLS-C6 Rev. 12/98

Appendix C: FDEP Notification Form



Florida Department of Environmental Protection Division of Air Resource Management

DEP Form 62-257-900(1)
Effective 10-12-08
Page 1 of 2

NOTICE OF DEMOLITION OR ASBESTOS RENOVATION

TYPE OF NOTICE (CHECK ONE ONLY): ORIGINAL REVISED CANCELLATION COURTESY
TYPE OF PROJECT (CHECK ONE ONLY): DEMOLITION RENOVATION
IF DEMOLITION, IS IT AN ORDERED DEMOLITION? YES NO
IF RENOVATION:
IS IT AN EMERGENCY RENOVATION OPERATION? YES NO
IS IT A PLANNED RENOVATION OPERATION? YES NO

I. Facility Name _____

Address _____

City _____ State _____ Zip _____ County _____

Site _____ Consultant Inspecting Site _____

Building Size _____ (Square Feet) # of Floors _____ Building Age in Years _____

Prior Use: School/College/University Residence Small Business Other _____

Present Use: School/College/University Residence Small Business Other _____

II. Facility Owner _____ Phone (_____) _____

Address _____

City _____ State _____ Zip _____

III. Contractor's Name _____ Phone (_____) _____

Address _____

City _____ State _____ Zip _____

Is the contractor exempt from licensure under section 469.002(4), F.S.? YES NO

IV. Scheduled Dates: (Notice must be postmarked 10 working days before the project start date)

Asbestos Removal (mm/dd/yy) Start: _____ Finish: _____ Demo/Renovation (mm/dd/yy) Start: _____ Finish: _____

V. Description of planned demolition or renovation work to be performed and methods to be employed, including demolition or renovation techniques to be used and description of affected facility components. _____

Procedures to be Used (Check All That Apply):

<input type="checkbox"/> Strip and Removal	<input type="checkbox"/> Glove Bag	<input type="checkbox"/> Bulldozer	<input type="checkbox"/> Wrecking Ball
<input type="checkbox"/> Wet Method	<input type="checkbox"/> Dry Method	<input type="checkbox"/> Explode	<input type="checkbox"/> Burn Down
OTHER: _____			

VI. Procedures for Unexpected RACM: _____

VII. Asbestos Waste Transporter: Name _____ Phone (_____) _____

Address _____

City _____ State _____ Zip _____

VIII. Waste Disposal Site: Name _____ Class _____

Address _____

City _____ State _____ Zip _____

IX. RACM or ACM: Procedure, including analytical methods, employed to detect the presence of RACM and Category I and II nonfriable ACM. _____

Amount of RACM or ACM*
_____ square feet surfacing material
_____ linear feet pipe
_____ cubic feet of RACM off facility components
_____ square feet cementitious material
_____ square feet resilient flooring
_____ square feet asphalt roofing

X. Fee Invoice Will Be Sent to Address in Block Below: (Print or Type)

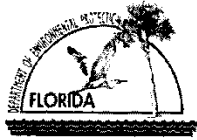
*Identify and describe surfacing material and other materials as applicable: _____

I certify that the above information is correct and that an individual trained in the provisions of this regulation (40 CFR Part 61, Subpart M) will be on-site during the demolition or renovation and evidence that the required training has been accomplished by this person will be available for inspection during normal business hours.

(Print Name of Owner/Operator) _____ (Date) _____

(Signature of Owner/Operator) _____ (Date) _____

DEP USE ONLY Postmark/Date Received ID#



Florida Department of Environmental Protection
Division of Air Resource Management

DEP Form 62-257-900(1)
Effective 10-12-08
Page 1 of 2

NOTICE OF DEMOLITION OR ASBESTOS RENOVATION

TYPE OF NOTICE (CHECK ONE ONLY): ORIGINAL REVISED CANCELLATION COURTESY
TYPE OF PROJECT (CHECK ONE ONLY): DEMOLITION RENOVATION
IF DEMOLITION, IS IT AN ORDERED DEMOLITION? YES NO
IF RENOVATION: IS IT AN EMERGENCY RENOVATION OPERATION? YES NO
IS IT A PLANNED RENOVATION OPERATION? YES NO

I. Facility Name
Address
City State Zip County
Site Consultant Inspecting Site
Building Size (Square Feet) # of Floors Building Age in Years
Prior Use: School/College/University Residence Small Business Other
Present Use: School/College/University Residence Small Business Other

II. Facility Owner
Address
City State Zip

III. Contractor's Name
Address
City State Zip
Is the contractor exempt from licensure under section 469.002(4), F.S.? YES NO

IV. Scheduled Dates: (Notice must be postmarked 10 working days before the project start date)
Asbestos Removal (mm/dd/yy) Start: Finish: Demo/Renovation (mm/dd/yy) Start: Finish:

V. Description of planned demolition or renovation work to be performed and methods to be employed, including demolition or renovation techniques to be used and description of affected facility components.

Procedures to be Used (Check All That Apply):

Table with 4 columns: Strip and Removal, Glove Bag, Bulldozer, Wrecking Ball, Wet Method, Dry Method, Explode, Burn Down. Includes an 'OTHER:' field.

VI. Procedures for Unexpected RACM:

VII. Asbestos Waste Transporter: Name Phone
Address
City State Zip

VIII. Waste Disposal Site: Name Class
Address
City State Zip

IX. RACM or ACM: Procedure, including analytical methods, employed to detect the presence of RACM and Category I and II nonfriable ACM.

Amount of RACM or ACM*
square feet surfacing material
linear feet pipe
cubic feet of RACM off facility components
square feet cementitious material
square feet resilient flooring
square feet asphalt roofing

X. Fee Invoice Will Be Sent to Address in Block Below: (Print or Type)

Empty rectangular box for fee invoice address.

*Identify and describe surfacing material and other materials as applicable:

I certify that the above information is correct and that an individual trained in the provisions of this regulation (40 CFR Part 61, Subpart M) will be on-site during the demolition or renovation and evidence that the required training has been accomplished by this person will be available for inspection during normal business hours.

(Print Name of Owner/Operator) (Date)

(Signature of Owner/Operator) (Date)

DEP USE ONLY Postmark/Date Received ID#



**DEPARTMENT / SITE-SPECIFIC
ASBESTOS CONTROL PROGRAM INSERT**

Facility:	Location:
Department:	Division:

RESPONSIBILITY:

_____ is designated as the Asbestos Program Coordinator for this Department/facility. Specific Responsibilities include:

1. Ensuring this department insert remains current.
2. Maintaining a current list of employees that have been properly trained and have been determined as qualified to work with asbestos.
3. Ensuring that all asbestos containing piping is accounted for via a formal tracking mechanism.
4. Ensuring all repairs where asbestos containing material are suspected follow the established safety protocols, JSA's and/or internal procedures as defined within the Collier County Written Plan.
5. Ensuring that all contractors who may perform asbestos removal have provided verification of properly trained employees and that all contracted work follows established guidelines and appropriate disposal procedures.
6. Ensuring all waste disposal forms are completed, properly submitted and a copy maintained to ensure "cradle to grave" accuracy.

Appendix E Medical Questionnaire

Appendix D to §1910.1001 - Medical Questionnaires - Mandatory

This mandatory appendix contains the medical questionnaires that must be administered to all employees who are exposed to asbestos above the permissible exposure limit, and who will therefore be included in their employer's medical surveillance program. Part 1 of the appendix contains the Initial Medical Questionnaire, which must be obtained for all new hires who will be covered by the medical surveillance requirements. Part 2 includes the abbreviated Periodical Medical Questionnaire, which must be administered to all employees who are provided periodic medical examinations under the medical surveillance provisions of the standard.

Part 1

INITIAL MEDICAL QUESTIONNAIRE:

1. NAME: _____
2. SOCIAL SECURITY NUMBER: _____
3. CLOCK NUMBER: _____
4. PRESENT OCCUPATION: _____
5. PLANT: _____
6. ADDRESS: _____
7. CITY: _____ ST: _____ ZIP CODE: _____
8. TELEPHONE NUMBER: (____) _____ - _____ EXT. _____
9. INTERVIEWER: _____
10. DATE: ____ / ____ / ____
11. Date of birth: ____ / ____ / ____
Month Day Year

12. Place of birth: _____
13. Sex: 1. Male 2. Female
14. What is your marital status? 1. Single 2. Married 3. Widowed 4. Separated/Divorced
15. Race: 1. White 2. Black 3. Asian 4. Hispanic 5. Indian 6. Other _____
16. What is the highest grade completed in school? _____ (For example 12 years is completion of high school)

17. OCCUPATIONAL HISTORY

- A. Have you ever worked full time (30 hours per week or more) for 6 months or more?: 1. Yes 2. No IF YES TO 17A:
- B. Have you ever worked for a year or more in any dusty job? 1. Yes 2. No 3. Does Not Apply
Specify job/industry: _____ Total Years Worked: _____
Was dust exposure: 1. Mild 2. Moderate 3. Severe
- C. Have you ever been exposed to gas or chemical fumes in your work? 1. Yes 2. No
Specify job/industry: _____ Total Years Worked: _____
Was exposure: 1. Mild 2. Moderate 3. Severe
- D. What has been your usual occupation or job - the one you have worked at the longest?
1. Job occupation: _____
2. Number of years employed in this occupation: _____
3. Position/job title: _____
4. Business, field or industry: _____

(Record on lines the years in which you have worked in any of these industries, e.g. 1960-1969)

Have you ever worked:

- | | | | |
|-------------------------------------|------------------------------|-----------------------------|---------------|
| E. In a mine? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | _____ - _____ |
| F. In a quarry? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | _____ - _____ |
| G. In a foundry? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | _____ - _____ |
| H. In a pottery? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | _____ - _____ |
| I. In a cotton, flax, or hemp mill? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | _____ - _____ |
| J. With asbestos? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | _____ - _____ |

18. PAST MEDICAL HISTORY

- A. Do you consider yourself to be in good health? Yes No If "No", state reason: _____
- B. Have you any defect of vision? Yes No If "Yes", state nature of defect: _____
- C. Have you any hearing defect? Yes No If "Yes", state nature of defect: _____
- D. Are you suffering from or have you ever suffered from:
 - a. Epilepsy (or fits, seizures, convulsions)? Yes No
 - b. Rheumatic fever? Yes No
 - c. Kidney disease? Yes No
 - d. Bladder disease? Yes No
 - e. Diabetes? Yes No
 - f. Jaundice? Yes No

19. CHEST COLDS AND CHEST ILLNESSES:

- 19A. If you get a cold, does it *usually* go to your chest? (Usually means more than 1/2 the time): 1. Yes 2. No 3. Don't get colds
- 20A. During the past 3 years, have you had any chest illnesses that have kept you off work, indoors at home, or in bed? 1. Yes 2. No IF YES TO 20A:
B. Did you produce phlegm with any of these chest illnesses? 1. Yes 2. No 3. Does Not Apply
C. In the last 3 years, how many such illnesses with (increased) phlegm did you have which lasted a week or more? _____ Number of illnesses No such illnesses
21. Did you have any lung trouble before the age of 16? 1. Yes 2. No



**Appendix F:
Phase I - Project Initialization Checklist**

0	Project Name:	Form Completed By:	Proj. #:
1	Who Will conduct the Asbestos Operations?	<input type="checkbox"/> Water Department <input type="checkbox"/> Contractor <input type="checkbox"/> Other	
2	Has a project/site-specific Asbestos Abatement Plan been submitted to the Project Mgr?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
3	Has the Asbestos Abatement Plan Been Approved by the Water, Risk Mgt, Pollution Control and Solid Waste departments?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
4	Where applicable, has the affected department provided all applicable JSA's associated with these work tasks for review?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
5	Has documentation of licensure been provided by the contractor, where necessary?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
6	Has documentation of employee training been provided to the Project Mgr?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
7	Does this project require a 3 rd Party Asbestos Consultant? If so, have they been hired and provided with the abatement plan for review?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
8	Does this project require EPA/DEP Notification?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
9	Where EPA/DEP notification is required, has DEP form 62-257-900(1) been completed by the contractor or Project Mgr and submitted to EPA/DEP? (This form is shown as Appendix C in the Risk Management Countywide Plan)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
10	Where EPA DEP notification has been determined, has approval been received from EPA/DEP (Do not commence project without approval, where necessary)?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
11	Has the Project Mgr. Obtained the "Waste Profile" form from WMI? (This form will need to be submitted to WMI for approval prior to disposal of material – There is a 24-48 hour waiting period on approval of this form) Note: Multiple shipments will require multiple form requests and subsequent approvals by WMI	<input type="checkbox"/> YES <input type="checkbox"/> NO	
12	Where necessary, The PUD Public Information Coordinator has been notified, educated on the project in question and is available to address media concerns?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	
13	Has a Project Pre-Construction Meeting been held to discuss the abatement plan and all roles and responsibilities everyone will be held to?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
14	An account has been established at the landfill for the specific project. Acct# _____ (Utility Billing)	<input type="checkbox"/> YES <input type="checkbox"/> NO	
15	Has the Asbestos Abatement Consultant submitted an air monitoring plan that describes that establishes parameters for personal and ambient air monitoring?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
16	Estimated linear ft and weight of asbestos to be removed _____ Linear Ft		

The signatures below represent the verification of all items above and the subsequent approval of the initiation sequence of this project.

Project Manager - Print Name	Project Manager Signature
Risk Management – Print Name/Title	Risk Management - Signature
Solid & Hazardous Waste – Print Name/Title	Solid & Hazardous Waste - Signature
Water Distribution Manager – Print Name	Water Distribution Manager - Signature
Water Department Director – Print Name	Water Department Director - Signature
Contractor – Print Name	Contractor - Signature

Once all signatures have been obtained, the "Notice to Proceed" may be delivered. This completed form shall be retained by the Water Department, the Project Manager and Risk Management for document control purposes.



Appendix G:
Phase II - Asbestos Construction/Removal Checklist
 [This checklist to be completed on-site during any Asbestos Removal Project]

0	Project Name:	Form Completed By:	Proj #:
1	The department and/or contractor performing the work has mobilized all necessary equipment to properly remove the Asbestos containing material.		<input type="checkbox"/> YES <input type="checkbox"/> NO
2	A copy of the Asbestos Abatement Plan is on site at all times.		<input type="checkbox"/> YES <input type="checkbox"/> NO
3	Where necessary, A copy of any applicable JSA's are on-site at all times.		<input type="checkbox"/> YES <input type="checkbox"/> NO
4	Where necessary, A copy of the approved DEP Form 62-257-900(1) is on site at all times.		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
5	Where necessary, A copy of the contractor's Asbestos License is on site at all times.		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
6	The department and/or contractor performing the work has the approved cutting/snapping apparatus on site and ready for use.*		<input type="checkbox"/> YES <input type="checkbox"/> NO
7	The department and/or contractor performing the work has all required equipment to clean up asbestos debris in affected soil or media on-site?*		<input type="checkbox"/> YES <input type="checkbox"/> NO
8	The department and/or contractor performing the work has all required PPE on site and available for all employees that will work within the excavation/removal area.*		<input type="checkbox"/> YES <input type="checkbox"/> NO
9	The department and/or contractor performing the work has all required signage on-site and available and the designated perimeter is established and maintained in place at all times.*		<input type="checkbox"/> YES <input type="checkbox"/> NO
10	The department and/or contractor performing the work has all required "wrapping" material on-site and available at all times.*		<input type="checkbox"/> YES <input type="checkbox"/> NO
11	The department and/or contractor performing the work has adequate "wetting" apparatus on-site and available to ensure material does not become airborne.*		<input type="checkbox"/> YES <input type="checkbox"/> NO
12	The material has been properly wrapped? *		<input type="checkbox"/> YES <input type="checkbox"/> NO
13	The material has been properly labeled? *		<input type="checkbox"/> YES <input type="checkbox"/> NO
14	Properly wrapped and labeled material has been carefully loaded into an approved transportation container. *		<input type="checkbox"/> YES <input type="checkbox"/> NO
15	Transportation container is properly labeled while being stored on site.*		<input type="checkbox"/> YES <input type="checkbox"/> NO
16	The affected department and/or contractor has obtained approval for disposal from WMI using the "Waste Profile" form as required and said form is on site and ready to be sent with the Non-Hazardous Waste manifest. [Timeframe: 48 Hours Min/10 Days Max] Note: Multiple shipments will require multiple requests and subsequent approval by WMI		<input type="checkbox"/> YES <input type="checkbox"/> NO
17	The affected department has scheduled the exact date/time for shipment of material based on WMI approval via the Waste Profile form. Note: Multiple shipments will require multiple requests and subsequent approval by WMI		<input type="checkbox"/> YES <input type="checkbox"/> NO
18	Has the transportation container been covered (tarp) prior to leaving the site?*		<input type="checkbox"/> YES <input type="checkbox"/> NO
19	The shipment has left the construction site and being transported for disposal.		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
20	A safety meeting, i.e. short tailgate session is held at the beginning of each work day.		<input type="checkbox"/> YES <input type="checkbox"/> NO
21	Verify and list the amount of pipe removed (in linear feet and weight); _____ Linear Ft.		

***Items require photographs prior to completion of documentation**

The signatures below represent the verification of all items above and the subsequent approvals during the **Construction/Removal Phase** of this project.

Project Manager - Print Name	Project Manager - Signature
Water Dept. Representative- Print Name/Title	Water Dept. Representative - Signature
Field Inspector - Print Name/Title	Field Inspector - Signature
Add. Representative - Print Name/Title	Add. Representative - Signature

This completed form shall be retained by the Water Department, the Project Manager and Risk Management for document control purposes.



**Appendix H:
Asbestos Disposal Checklist**

[To be completed by a trained (authorized) Solid Waste Employee]

1	Who Delivered the Asbestos Shipment? <input type="checkbox"/> Water Department <input type="checkbox"/> Contractor <input type="checkbox"/> Other	
2	Is the correct Waste Profile, completed correctly and approved by Waste Management, delivered to the scalehouse office prior to the date of disposal? (A separate profile is required for friable and non-friable asbestos waste)	<input type="checkbox"/> YES <input type="checkbox"/> NO
3	Are the Non-Hazardous Waste Manifest completed correctly and signed by the hauler and scalehouse attendant?	<input type="checkbox"/> YES <input type="checkbox"/> NO
4	Has an account been established at the scalehouse for this specific project?	<input type="checkbox"/> YES <input type="checkbox"/> NO
5	Did the shipment arrive covered (tarp) prior to disposal?	<input type="checkbox"/> YES <input type="checkbox"/> NO
6	Has the disposal location been properly prepared for acceptance of the material by WMI staff following WMI's established burial parameters? (scale attendant will notify WMI to prepare the disposal site)	<input type="checkbox"/> YES <input type="checkbox"/> NO
7	Is a Waste management Inc. Authorized operator available to meet the hauler at the disposal location?	<input type="checkbox"/> YES <input type="checkbox"/> NO
8	Has a Solid Waste Mgt. employee escorted the hauler to the disposal location and witnessed the placement of material into the WMI established disposal location?	<input type="checkbox"/> YES <input type="checkbox"/> NO
9	Has the shipment been disposed of properly (as defined by WMI parameters) and the entire disposal process verified by an authorized Solid Waste Management representative?	<input type="checkbox"/> YES <input type="checkbox"/> NO
10	Has the Solid Waste Department received copies of the final and completed Non-Hazardous Waste Manifest, GPS coordinates and a copy of the load ticket receipt from WMI?	<input type="checkbox"/> YES <input type="checkbox"/> NO
11	Has Solid Waste Submitted the completed the proper documentation to the Project Manager for documentation control purposes. (manifests, signed load tickets, GPS log and a final report from the scalehouse database)	<input type="checkbox"/> YES <input type="checkbox"/> NO

The signatures below represent the verification of all items above and the subsequent approval of the Completion of the *Disposal Phase* of this project.

Project Manager - Print Name	Project Manager Signature
Solid Waste – Print name/Title	Solid Waste - Signature
Risk Management – Print Name/Title	Risk Management - Signature
Water Department Director – Print Name	Water Department Director - Signature

This completed form shall be retained by the Project Manager and Risk Management for document control purposes.



**Appendix I:
Document Control Checklist**

1	A copy of the Asbestos Abatement Plan has been filed with the Project Manager and Risk Management?	<input type="checkbox"/> YES <input type="checkbox"/> NO
2	A copy of the completed contract has been filed with the Project Manager and Risk Management?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
3	A copy of the completed DEP form 62-257-900(1) has been filed with the Project Manager and Risk Management?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
4	A copy of the Non-Hazardous Waste Manifest, landfill ticket, GPS Coordinates, and Waste Profile have been filed with the Project Manager and Risk Management?	<input type="checkbox"/> YES <input type="checkbox"/> NO
5	An AAR and Project Critique have been completed?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
6	AAR Results and Project Improvement Strategies have been submitted to the affected departments and Risk Management for immediate implementation?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
7	Department Asbestos Inventory Form has been updated to reflect changes?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

The signatures below represent the verification of all items above and the subsequent approval of the completion of the *Document Control* sequence of this project.

Project Manager - Print Name	Project Manager Signature
Risk Management – Print Name/Title	Risk Management - Signature
Water Department – Print Name/Title	Water Department - Signature
Water Department Director – Print Name	Water Department Director - Signature

This completed form shall be retained by the project manager and Risk Management for document control purposes.

Friable Asbestos Containing Materials Express Profiles



Requested Disposal Facility _____ Profile Number _____
 Renewal for Profile Number _____ Waste Approval Expiration Date _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: _____
 2. Site Address: _____ 7. Email Address: _____
 3. City/ZIP: _____ 8. Phone: _____ 9. FAX: _____
 4. State: _____ 10. NAICS Code: _____
 5. County: _____ 11. Generator USEPA ID #: _____
 6. Contact Name/Title: _____ 12. State ID# (if applicable): _____

B. Customer Information same as above

P. O. Number: _____

1. Customer Name: _____ 6. Phone: _____ FAX: _____
 2. Billing Address: _____ 7. Transporter Name: _____
 3. City, State and ZIP: _____ 8. Transporter ID # (if appl.): _____
 4. Contact Name: _____ 9. Transporter Address: _____
 5. Contact Email: _____ 10. City, State and ZIP: _____

C. Waste Stream Information

1. DESCRIPTION

a. Common Waste Name: Friable Asbestos containing material (uncontaminated)
 State Waste Code(s): _____

b. Describe Process Generating Waste or Source of Contamination:
Removal of regulated, friable asbestos containing materials from demolition/dismantling or remediation activities. Does not include clean-up wastes, such as soil, that are contaminated with asbestos.

- c. Typical Color(s): Any and all
 d. Strong Odor? Yes No Describe: _____
 e. Physical State at 70°F: Solid Liquid Powder Semi-Solid or Sludge Other: _____
 f. Layers? Single layer Multi-layer NA
 g. Water Reactive? Yes No If Yes, Describe: _____
 h. Free Liquid Range (%): _____ to _____ NA(solid)
 i. pH Range: ≤2 2.1-12.4 ≥12.5 NA(solid) Actual: _____
 j. Liquid Flash Point: < 140°F ≥ 140°F NA(solid) Actual: _____
 k. Flammable Solid: Yes No
 l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): (See Attached)

Constituents (Total Composition Must be > 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. Demolition debris, asbestos	100	%	100	%
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION

- a. Event Base/Ongoing (Check One)
 b. Estimated Annual Quantity: _____ Tons Cubic Yards Drums Gallons Other (specify): _____
 c. Shipping Frequency: _____ Units per Month Quarter Year One Time Other
 d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) Yes No
 e. USDOT Shipping Description (if applicable): RQ Asbestos, Class 9, NA2212, PGIII

3. SAFETY REQUIREMENTS (Handling, PPE, etc.): Respirator - air purifying with HEPA cartridge as required by landfill policy.

Non-Friable Asbestos Containing Materials Express Profile



Requested Disposal Facility _____ Profile Number _____
 Renewal for Profile Number _____ Waste Approval Expiration Date _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: _____
 2. Site Address: _____ 7. Email Address: _____
 3. City/ZIP: _____ 8. Phone: _____ 9. FAX: _____
 4. State: _____ 10. NAICS Code: _____
 5. County: _____ 11. Generator USEPA ID #: _____
 6. Contact Name/Title: _____ 12. State ID# (if applicable): _____

B. Customer Information same as above

P. O. Number: _____

1. Customer Name: _____ 6. Phone: _____ FAX: _____
 2. Billing Address: _____ 7. Transporter Name: _____
 3. City, State and ZIP: _____ 8. Transporter ID # (if appl.): _____
 4. Contact Name: _____ 9. Transporter Address: _____
 5. Contact Email: _____ 10. City, State and ZIP: _____

C. Waste Stream Information

1. DESCRIPTION

a. Common Waste Name: Non-Friable Asbestos Containing Materials (Uncontaminated)
 State Waste Code(s): _____

b. Describe Process Generating Waste or Source of Contamination:

Demolition/renovation - when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure. Including gaskets, resilient floor coverings and asphalt roofing products (specify in section L). Does not include clean-up wastes, such as soils, that are contaminated with nonfriable asbestos.

c. Typical Color(s): Any and all

d. Strong Odor? Yes No Describe: _____

e. Physical State at 70°F: Solid Liquid Powder Semi-Solid or Sludge Other: _____

f. Layers? Single layer Multi-layer NA

g. Water Reactive? Yes No If Yes, Describe: _____

h. Free Liquid Range (%): _____ to _____ NA(solid)

i. pH Range: ≤2 2.1-12.4 ≥12.5 NA(solid) Actual: _____

j. Liquid Flash Point: < 140°F ≥ 140°F NA(solid) Actual: _____

k. Flammable Solid: Yes No

l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): (See Attached)

Constituents (Total Composition Must be > 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. <u>Non-friable asbestos-containing materials</u>	100	%	100	%
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION

- a. Event Base/Ongoing (Check One)
 b. Estimated Annual Quantity: _____ Tons Cubic Yards Drums Gallons Other (specify): _____
 c. Shipping Frequency: _____ Units per Month Quarter Year One Time Other
 d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) Yes No
 e. USDOT Shipping Description (if applicable): _____

3. SAFETY REQUIREMENTS (Handling, PPE, etc.): Normal landfill safety requirements. Manage waste so that it does not become friable.

SECTION VIII

WASTEWATER SPILL – OVERFLOW

CONTINGENCY REQUIREMENTS

**GENERAL COLLIER COUNTY
WASTEWATER SPILL - OVERFLOW
CONTINGENCY PLAN
March 2022**

The Contractor, due to unforeseen conditions, may encounter or cause a wastewater spill or overflow during his work. The minimum requirements listed below may not address every specific event that could occur. It is the Contractors responsibility to review the items listed below and expand upon them if or when necessary in the creation of their contingency planning. The Contractor shall submit a Wastewater Spill / Overflow Contingency Plan to Collier County for review and approval prior to start of construction.

It is critically important to be proactive during construction to reduce the potential for wastewater spills and overflows. Listed below are several proactive actions that should be taken at a minimum:

- Maintain list of emergency wastewater haulers for call out to the site should an emergency arise.
- Maintain pumps on site that can be utilized for relieving wastewater backups and surcharges.
- Maintain heavy plastic sheets on site to be utilized for lining containment areas.
- Maintain an adequate supply of lime on site for treating spill areas.
- Meet with County Wastewater Staff whenever necessary to isolate or turn off pumping facilities in order to develop coordinated Contingency Plan, including pumper trucks, etc.
- Meet with County Wastewater Staff and the project manager whenever necessary to temporarily divert or isolate gravity sewer system in order to develop coordinated Contingency Plan, including pumper trucks, etc.

Actions to be taken in case of a wastewater spill or overflow are listed below. Generally, they are listed in the order to be taken, however dependent upon site conditions they may need to be modified. Most of the activities should occur concurrently.

- Immediately contain spill or overflow by berming a containment area and lining area with plastic.
- Take immediate action to stop or reduce the overflow. This could include, but not be limited to: pumping out of surcharged gravity system; coordinating with County to turn on or off pump station(s) as needed; or in case of a force main break, turning off pump station(s) and isolating main with valves.
- Take action to prevent the flow of the spill to any open waters (lakes, canals, etc.). Do not let other sources of water co-mingle with spilled wastewater.

- Contact County Project Manager (or alternate) and CEI representative on site to coordinate County response from the Collier County Wastewater Collections, staff County Risk Management, and County Pollution Control. As necessary by severity, FDEP and other agencies may need to be contacted and become involved.
- Coordinate the cleanup of the wastewater spill/overflow. This can include the pumping back into the wastewater system directly or by use of vactor truck or other methods. Upon removal of all liquid (and solids as possible) treat area with lime to neutralize and disinfect.
- In coordination with County prepare estimate of spilled wastewater volume in gallons.
- In conjunction with County and as appropriate make immediate notification to FDEP and other agencies. This notification will vary based upon volume of spill.
- In conjunction with County Staff prepare written notification to FDEP and other agencies.
- Participate in After Action Meeting to review: cause of spill/overflow; response and action taken; remedial actions; lessons learned and any additional close out actions.

An emergency 24-hour contact list for the Contractor, County, FDEP and Consultant should be attached. A copy of this Plan, and as may be modified, should be maintained at Project site.

SECTION IX



98TH AVENUE NORTH
PUBLIC UTILITY RENEWAL
PRE-CONSTRUCTION ASSESSMENT FORM
Driveway / Replacement Plan / Existing Sod Survey

Homeowner's Address: _____

Existing Condition Photograph(s) Date of Photograph(s): _____

"Photo"	"Photo"
"Photo"	

Driveway Type: _____ Width at Pavement: _____ Width at R/W _____

Culvert: ____ Yes ____ No Type: _____ Diameter: _____

Sod type: _____ Existing Percentage of Sod Type: _____

Special Notes: _____

Submitted By: _____ Date: _____

SECTION IX



99TH AVENUE NORTH
PUBLIC UTILITY RENEWAL
PRE-CONSTRUCTION ASSESSMENT FORM
Driveway / Replacement Plan / Existing Sod Survey

Homeowner's Address: _____

Existing Condition Photograph(s) Date of Photograph(s): _____

"Photo"	"Photo"
"Photo"	

Driveway Type: _____ Width at Pavement: _____ Width at R/W _____

Culvert: ____ Yes ____ No Type: _____ Diameter: _____

Sod type: _____ Existing Percentage of Sod Type: _____

Special Notes: _____

Submitted By: _____ Date: _____

SECTION X

WATER DISTRIBUTION REPLACEMENT

BACKFLOW PREVENTION DEVICE

Upon completion of the new water main construction and its clearance, the new water main connection will be made at the individual services. This shall include new water meter boxes, connection to existing meter and installation of a new County supplied backflow prevention device.

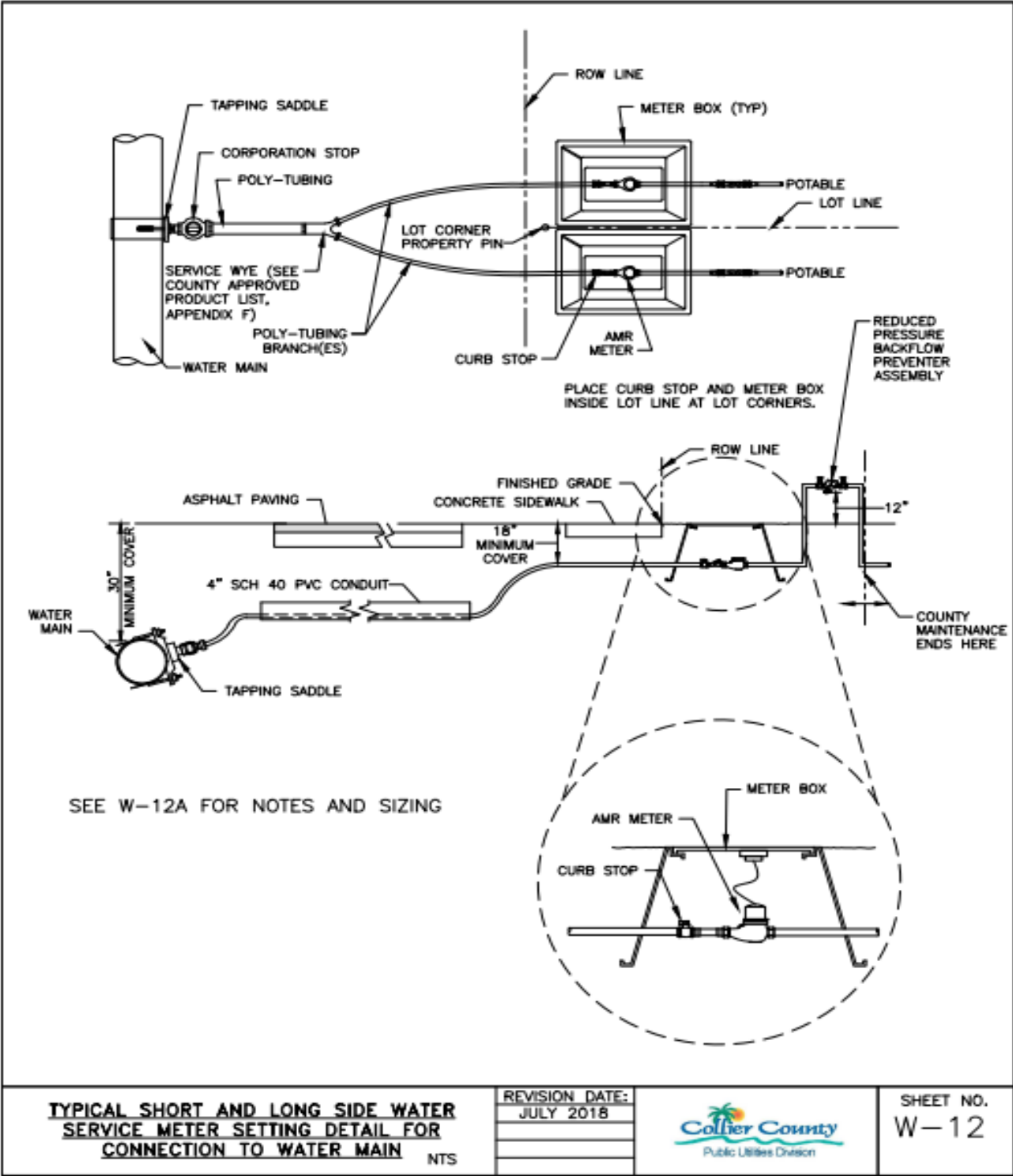
1. The County will give a worksheet to the Contractor to fill out each address. The worksheet has the following information: address, names of personnel completing task, BFP #, meter #, parts used, and signature of competent person responsible for completion of task.
2. The Contractor shall be responsible for coordinating with each property owner / resident for the connection to the new main and installation of the backflow prevention device. This work should ideally be completed on a street by street basis.
3. Contractor will be responsible for excavation at each site. It is required that the contractor takes pictures of each site prior to and after the installation. These photos should be attached to the worksheet. The Contractor will not be allowed to start any work until the before pictures are delivered to the Project Manager.
4. Contractor may wish to use customers shut-off on the side of the home to minimize dewatering, but in doing so takes full responsibility should the valve fail in the performance of the task.
5. Contractor is responsible for locates at the individual work-sites.
6. The backflow devices shall be picked up by the contractor at the County's Mercantile Facility. A 48 hour advanced notification prior to pick up is required. The Contractor shall provide written receipt of the devices. Upon receipt the Contractor shall be responsible for their security.
7. Installation of the assemblies will be per approved Collier County detail – Attachment B. Attachment A is provided for reference only. Device will be level and plumb. Connections to the customer's side plumbing will be professional and utilize as few parts as possible, but not adding any undue stress to existing piping. No leakage will be acceptable.
8. On completion of backflow preventer installation, the service shall be flushed to the resident's hose bib on incoming side, removing as much air as possible.

9. Collier County will be responsible for the testing of the device, once installed. A complete test report will accompany the work order generated for the task.
10. Contractor will be responsible for back-filling and site repair (grass, plants, concrete, asphalt, etc.) for each address. This includes any repairs to any pre-existing utilities or structures.
11. A completed work form and backflow test report must be submitted for each installation, daily.

METER/BACKFLOW CHANGE-OUT PROCEDURE

1. Contractor shall prepare one (1) week in advance a list (by address) of the meters and backflows to be changed out. This will allow the appropriate work orders to be issued by the County to procure the new meters.
2. Upon receipt of work order, Contractor and Representative are to provide a verbal notification to the resident prior to shut-off of water. (If no one is present, meter should be observed for any unusual water use in the empty residence. If water use is unusual, no work is to be done until a determination can be made concerning potential landscape irrigation or other use.) Work Order should be verified if any special requirements concerning the service exist (i.e. if service has been terminated or locked out).
3. In conjunction with Contractor, the new meter is installed on the new service by County. Contractor installs new backflow at location. Prior to any connection to the existing private service to the house, the County obtains a reading on the existing water meter and records it on the Work Order.
4. Service from existing main is then turned off at curb stop at existing meter location. Existing house service is then disconnected from meter. New service is then connected to the house service by Contractor with County present.
5. Meter reading is then taken by County at new meter. This is recorded on Work Order.
6. Water service is then turned on at the meter and at the same time the closest available house bibb is turned on by the Contractor. This is to allow any potential dirt or debris to be flushed out. House bibb is then shut off. Meter is observed for any unusual water usage. If unusual usage is noted, the resident if present is to be notified immediately. If the resident is not present, the water service should be shut-off at backflow device isolation valve. A notice is to be placed at the front door of the residence and the County customer service group is to be notified of this condition. If there is no usage the service conversion is completed.
7. County typically immediately completes the testing of backflow device and certifies its operation. If not done immediately, the testing is done within 24 hours.

8. At some time following conversion of service from old main to the new main, the existing meters, meter boxes are removed by Contractor and system abandonment is completed.





Model 975XL Reduced Pressure Principle Assembly

Application

Designed for installation on water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assembly shall provide protection where a potential health hazard exists. For non-potable applications only.

Standards Compliance

- ASSE® Listed 1013
- IAPMO® Listed
- UL® Classified (less shut-off valves or with OS&Y valves)
- C-UL® Classified
- CSA® Certified B64.4
- AWWA compliant C511
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California
- NYC MEA 425-89-M VOL 3

Materials

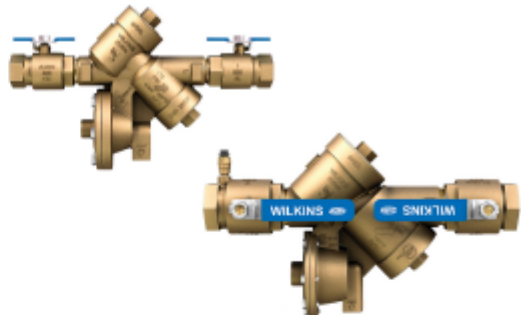
Main valve body	Cast Bronze ASTM B 584
Access covers	Cast Bronze ASTM B 584
Fasteners	Stainless Steel, 300 Series
Elastomers	Silicone
	Buna Nitrile
Polymers	Noryl™
Springs	Stainless Steel, 300 series

Features

Sizes:	3/4", 1", 1-1/4", 1-1/2", 2"	
Maximum working water pressure		175 PSI
Maximum working water temperature		180°F
Hydrostatic test pressure		350 PSI
End connections Threaded		ANSI B1.20.1

Relief Valve discharge port:

3/4" - 1"	-	0.63 sq. in.
1 1/4" - 2"	-	1.19 sq. in.



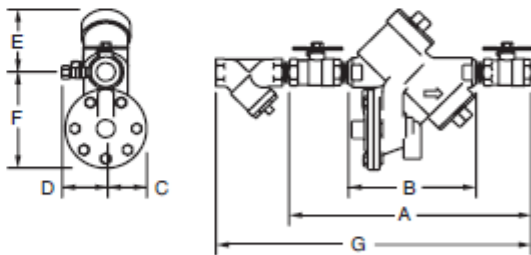
Options

(Suffixes can be combined)

- with full port QT ball valves (standard)
- L - less ball valves, male pipe thread
- U - with union ball valves (3/4" & 1")
- S - with bronze "Y" type strainer
- FDC - with fire hydrant connection; 2" only
- FT - with integral male 45° flare SAE test fitting
- TCU - with test cocks up
- SE - with street elbows (3/4" & 1")

Accessories

- Air gap (Model AG)
- Repair kits
- Thermal expansion tank (Mdl. XT)
- Soft seated check valve (Model 40XL2)
- Shock arrester (Model 1260XL)
- QT-SET Quick Test Fitting Set



Dimensions & Weights (do not include pkg.)

MODEL 975XL SIZE	DIMENSIONS (approximate)																WITH BALL VALVES	
	A		B		C		D		E		F		G					
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg		
3/4	20	12	305	7 3/4	197	2 1/8	54	3	76	3 1/2	89	5	127	16 1/8	410	12	5.5	
1	25	13	330	7 3/4	197	2 1/8	54	3	76	3 1/2	89	5	127	17 3/8	441	14	6.4	
1 1/4	32	17	432	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	22 9/16	573	28	12.7	
1 1/2	40	17 3/8	441	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	24 1/16	611	28	12.7	
2	50	18 1/2	470	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	26 1/2	673	34	15.4	

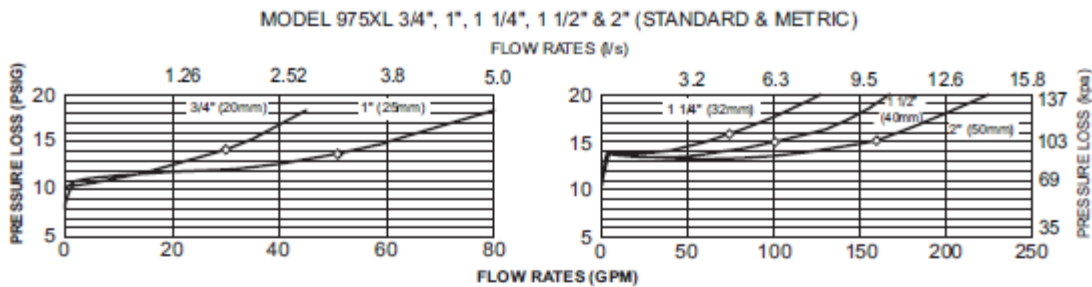
Zurn Industries, LLC | Wilkins
1747 Commerce Way, Paso Robles, CA U.S.A. 93446 Ph. 855-663-9876, Fax 805-238-5766
In Canada | Zurn Industries Limited
7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877-892-5216
www.zurn.com

Rev. G
Date: 8/20
Document No. EF-975XL
Product No. Model 975XL

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Flow Characteristics

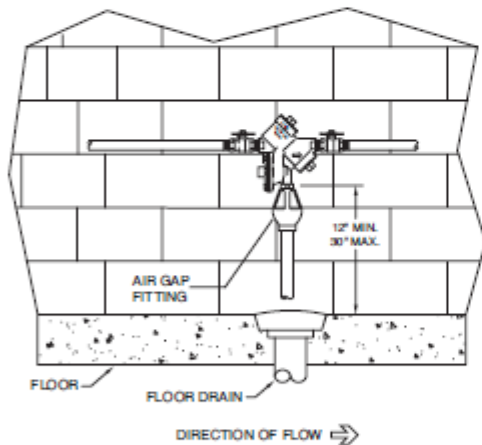
○ Rated Flow (established by approval agencies)



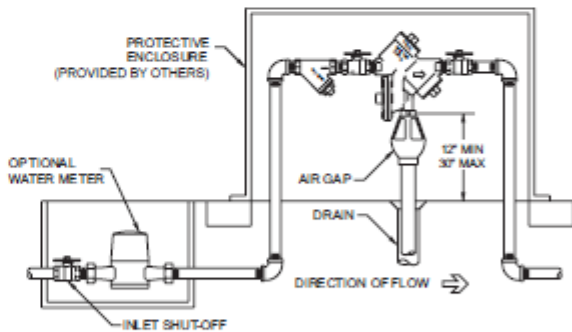
Typical Installation

Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the assembly shall be mounted at a minimum of 12' (305mm) and a maximum of 30' (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

Capacity thru Schedule 40 Pipe				
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
1/8"	1	1	2	3
1/4"	2	2	3	5
3/8"	3	4	6	9
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	105	167



INDOOR INSTALLATION



OUTDOOR INSTALLATION

Specifications

The Reduced Pressure Principle Backflow Preventer shall be ASSE® Listed 1013, rated to 180°F, and supplied with full port ball valves. The main body and access covers shall be bronze (ASTM B 584), the seat ring and all internal polymers shall be Noryl™ and the seat disc elastomers shall be silicone. The first and second checks shall be accessible for maintenance without removing the relief valve or the entire device from the line. If installed indoors, the installation shall be supplied with an air gap adapter. For use in non-potable applications only. The Reduced Pressure Principle Backflow Preventer shall be a ZURN WILKINS Model 975XL.

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SECTION XI

2885 South Horseshoe Drive
Naples, FL 34104
(239) 252-8192
www.colliercountyfl.gov

Road Alert Notification Form for Lane Closures and Road Closures

ROAD ALERTS and ROAD ALERT UPDATES are prepared by the Collier County Growth Management Department to inform the community about scheduled road construction and road maintenance projects along major roadways in Collier County where lane closures are planned, or traffic flow may be affected. Road Alerts are normally **prepared weekly on Wednesday**.

Complete and return this form by e-mail to: Growth.Management@colliercountyfl.gov and Danielle Bates Danielle.Bates@colliercountyfl.gov and Connie Deane Connie.Deane@colliercountyfl.gov and Desiree Hart Desiree.Hart@colliercountyfl.gov.

Any questions, phone: **239-252-8192** or **239-252-8365**.

Contact Information

- 1) Name of Company/Contractor/CEI (submitting the form): _____
- 2) Contact Name: _____
- 3) Mobile and/or Office Phone: _____
- 4) E-mail: _____
- 5) Subcontracting Company (if any): _____

Type of Work and Permitting Information

- 6) Type of work
 - a. Collier County – County Contact (name and phone): _____
 - b. Utility such as FPL, TECO – Company Name: _____
 - c. Private Company – Company Name: _____
- 7) Collier County Right-of-Way Permit # (required for private company work): _____

Lane Closure Information

- 8) Location of lane closure (select one):
 - a. On Road: _____
 between Road #1: _____ Road #2: _____
 - b. Intersection At – Road #1: _____ Road #2: _____
- 9) Dates of lane closure: (Better to overestimate than underestimate)
 Start date: _____
 End date: _____
- 10) Hours of lane closure: 9 a.m.-3 p.m. 9 a.m.-3:30 p.m. 8 p.m.-6 a.m. (overnight)
 Other (prior approval from County Contact and/or on Permit): _____
- 11) Reason for lane closure: _____
- 12) Direction of work (check all that apply):
 eastbound westbound northbound southbound
- 13) Which lane(s) closed? (check all that apply):
 through lane right turn lane left turn lane roadsides
 inside lane outside lane median sidewalks
 a.) If you are closing a turn lane can drivers still make the turn from adjacent through lane? yes no
 b.) Or from other turn lane(s)? yes no
- 14) Type of closure (may check more than one but be clear as to what is planned):
 Intermittent Rolling (moving continuously along the roadway)
 Road Closed to ALL Traffic Road Closed to Through Traffic: _____
 Reduced from: _____ lane(s) to _____ lane(s)
 Other: _____
- Notes: _____
- 15) Detour: _____
- 16) All Maintenance of Traffic (MOT) shall be in accordance with the current year standard plan.