

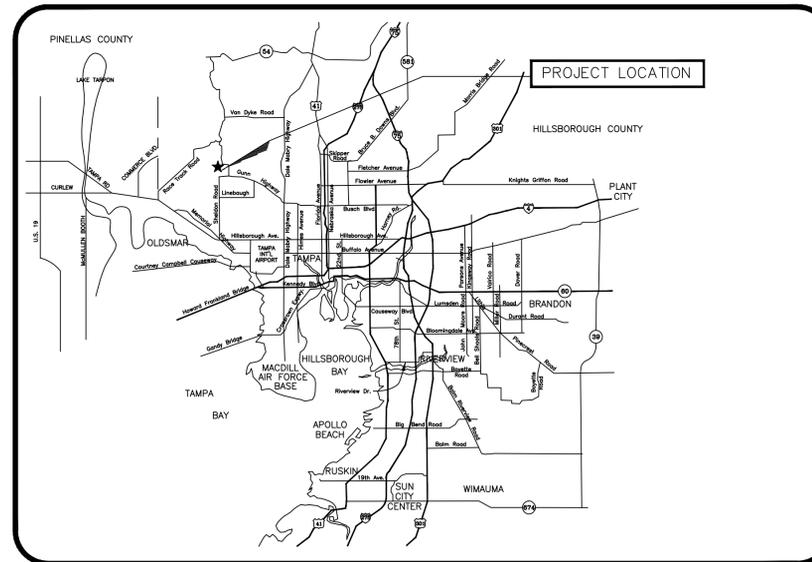
PLANS OF PROPOSED  
**CITRUS TOWN SQUARE**  
 7721 GUNN HWY., TAMPA, FL 33625  
 SECTION 02-28S-17E, HILLSBOROUGH COUNTY, FLORIDA  
 FOLIO NO. 003387.0000

PREPARED FOR

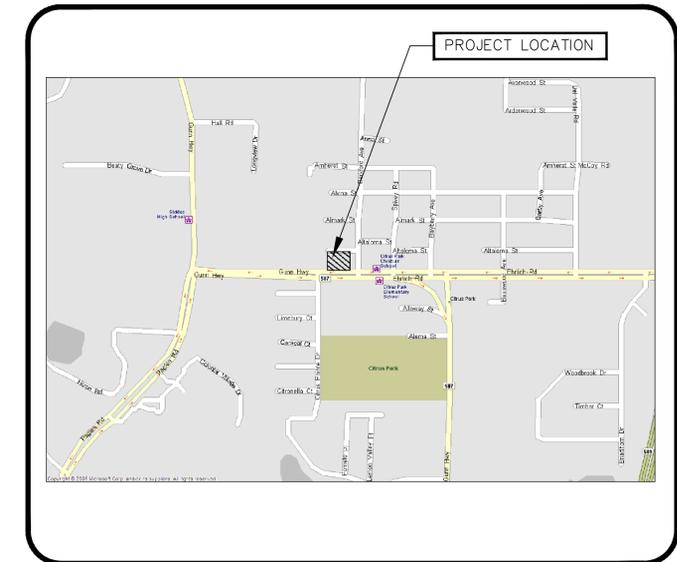
**NGA ROBLES**  
 5605 TCP BLVD.  
 LUTZ, FLORIDA 33558-2851

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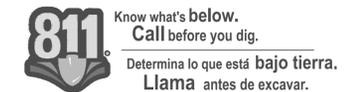
PROJECT LOCATION

PREPARED BY


**Civil, Water Resources & Environmental Engineering**  
**HTM, Inc.** 14031 N. Dale Mabry Highway, Tampa, Florida 33618  
 Phone: (813) 962-6230 Fax: (813) 962-6420  
 C.A. No. 6542

JANUARY 2016

HTM PROJECT NO. 100-16-002



## GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FROM THE OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION AND THOROUGHLY REVIEWING AND UNDERSTANDING ALL PERMIT CONDITIONS. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS THE PERMITS. ANY ADDITIONAL CONSTRUCTION/BUILDING PERMITS REQUIRED TO EXECUTE/COMPLETE THE WORK SHOWN IN THESE DOCUMENTS SHALL BE OBTAINED BY THE CONTRACTOR.
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE LATEST EDITION OF HILLSBOROUGH COUNTY LAND DEVELOPMENT CODE AND ALL HILLSBOROUGH COUNTY TECHNICAL STANDARDS.
- ALL ELEVATION DATA IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH SUBCONTRACTORS AND OTHER PUBLIC OR PRIVATE UTILITIES CONSTRUCTING FACILITIES WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL SLOD SOD ALL SLOPES STEEPER THAN 5:1 AND WITHIN COUNTY/FDOT R/W, AND MULCH ALL OTHER AREAS DISTURBED BY CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SOD/SEED AND MULCH UNTIL STABILIZATION HAS OCCURRED.
- CONTRACTOR SHALL CONTACT THE ENGINEER AND/OR OWNER PRIOR TO ANY CONSTRUCTION ACTIVITY THAT MAY DAMAGE OR OTHERWISE AFFECT TREES.
- EXISTING UNDERGROUND UTILITY LINES SHOWN ON THE DRAWINGS WERE TAKEN FROM RECORD DRAWINGS AND DOCUMENTS FURNISHED BY OTHERS, AND NOT FIELD VERIFIED. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WHICH MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION. PRIOR TO ACTUAL CONSTRUCTION, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED IF A CONFLICT EXISTS BETWEEN ACTUAL FIELD CONDITIONS AND THESE PLANS. CALL SUNSHINE STATE ONE CALL AT 1-800-432-4770 MIN. 48 HOURS BEFORE DIGGING.
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION, INCLUDING TESTING, WITH ENGINEER AND APPROPRIATE HILLSBOROUGH COUNTY INSPECTORS IN ACCORDANCE WITH HILLSBOROUGH COUNTY REQUIREMENTS.
- SOURCE OF S.H.G.W. ELEVATION - DETERMINE BY GEOTECHNICAL ENGINEER. THIS REPORT IS AVAILABLE FROM H.T. MAI, INC. AT 14031 N. DALE MABRY HWY., TAMPA, FL 33618.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS THAT IS NOT PROVIDED BY THE ENGINEER OR OWNER. THESE PERMITS MAY BE ROAD CROSSING, ONE WAY PERMIT, UTILITY CROSSING, AND LAL PERMIT FROM THE GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT SITE.
- THE CONTRACTOR SHALL REPLACE ALL EXIST. PAVING, STABILIZED EARTH, CURBS, SIDEWALKS, MAIL BOXES, DRIVEWAYS, FENCES, SIGNS, LIGHTS, CULVERTS, AND OTHER IMPROVEMENTS WITH THE SAME OR BETTER TYPE OF MATERIAL THAT WAS REMOVED DURING THE CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE M.O.T. AS PER FDOT STANDARD INDEX NOS. 600 THAT IS APPLICABLE TO THE SITE SPECIFIC CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL FILED AND ACTUAL INFORMATION TO THE ENGINEER FOR THE PREPARATION OF RECORD DRAWINGS. A MARK-UP "IN RED" SET OF PLANS SHALL BE AVAILABLE AT ALL TIME AT THE CONSTRUCTION SITE. FINAL FIELD CONDITIONS SHALL BE SURVEYED BY A LICENSE SURVEYOR. TEN CERTIFIED AS-BUILT SURVEYS SHALL BE FURNISHED TO THE ENGINEER AFTER THE FINAL INSPECTION.
- ALL PAVEMENT CUT/FILLING SHALL MEET THE FOLLOWING REQUIREMENTS:
  - COMPACTED TO A DENSITY OF NOT LESS THAN 100% PER ASTM D 1557-70.
  - DENSITY TEST SHALL BE CONDUCTED EVERY 12" OF COMPACTED DEPTH OR AS DIRECTED BY THE ENGINEER.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED UPON.
- WALLS FINISHED WITH STUCCO SHALL ALSO BE PAINTED. BUILDINGS ONLY FINISHED WITH PAINT SHALL NOT BE CONSIDERED ARCHITECTURALLY FINISHED.
- PROVIDE ILLUMINATION FOR ALL PROJECT ACCESS POINTS AND APPROACHES SUFFICIENT TO PROVIDE SAFE INGRESS AND EGRESS. THE ACCESS POINTS SHALL BE VISIBLE AT NIGHT FROM A DISTANCE OF 200 FT IN ALL DIRECTIONS WHICH VEHICLES TRAVEL. LIGHTING SHALL BE POSITIONED TO MINIMIZE THE IMPACTS ON ADJACENT PROPERTIES.
- EROSION / SEDIMENTATION CONTROL  
 CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
- NO STOCKPILING OF MATERIAL IN ROADWAY OR SIDEWALK; ALL DIRT AND DEBRIS WILL BE REMOVED FROM JOB SITE DAILY. ROAD AND SIDEWALK TO BE SWEEP DAILY AS PART OF DAILY CLEAN-UP.
- ANY PORTION OF ROADWAY THAT SUSTAINS EXCESSIVE CONSTRUCTION RELATED DAMAGE, IN THE OPINION OF THE ENGINEER, SHALL BE REPAIRED AT CONTRACTOR EXPENSE IN A MANNER SPECIFIED BY THE ENGINEER AND AUTHORITY HAVING JURISDICTION OVER CONSTRUCTION SITE.

## WATER AND SEWER CONSTRUCTION NOTES

### WATER DISTRIBUTION/TRANSMISSION SYSTEM

- ALL WATER MAIN CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF HILLSBOROUGH COUNTY "WATER AND WASTEWATER TECHNICAL MANUAL" INCLUDING CONSTRUCTION MATERIALS AND METHODS, EXCAVATION AND BACKFILL, COMPACTION, SCHEDULING OF INSPECTORS AND INSPECTIONS, TESTING AND STERILIZATION.
- WATER MAIN SHALL BE LOCATED 8' FROM BACK OF CURB UNLESS OTHERWISE INDICATED.
- FIRE HYDRANT ASSEMBLIES INCLUDE MAIN LINE TEE, GATE VALVE, PIPE, FITTINGS, HYDRANT, AND INCIDENTAL ITEMS TO FORM COMPLETE WORKING UNIT IN ACCORDANCE WITH HILLSBOROUGH COUNTY SPECIFICATIONS.
- ALL WATER MAIN PIPING SHALL BE PVC MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900. THE PIPE SHALL CONFORM TO THESE STANDARDS: PIPE DIMENSION RATIO (DR) 18, WORKING PRESSURE OF 150 PSI, AND LAYING LENGTH OF 20 FEET.
- FITTINGS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT WITH A MINIMUM PRESSURE RATING OF 250 PSI, AND SHALL CONFORM TO THE REQUIREMENTS OF ANSI STANDARD A21.10 AND A21.4.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF 36" COVER.
- PROVIDE THRUST RESTRAINT IN ACCORDANCE WITH HILLSBOROUGH COUNTY STANDARDS.
- ALL PVC WATER MAINS SHALL HAVE A SUITABLE ELECTRONIC LOCATOR TAPE BURIED APPROXIMATELY ONE FOOT BELOW GRADE OVER THE WATER MAIN. THE TAPE SHALL BE CONTINUOUS BETWEEN VALVES AND SECURED TO EACH VALVE. THE TAPE SHALL BE AT LEAST 5 MILS THICK, 2 INCH MINIMUM WIDTH AND MADE WITH AN ALUMINUM MATERIAL SANDWICHED BETWEEN 2 LAYERS OF POLYETHYLENE. IT SHALL HAVE IMPRINTED IN PERMANENT BLACK INK WITH 1 INCH LETTER "CAUTION WATER MAIN BURIED BELOW" ON BLUE BACK-GROUND. TAPES SHALL BE ELECTRONICALLY DETECTABLE TAPE.

ALL PVC WATER MAIN PIPE SHALL BEAR THE APPROVAL SEAL OF THE NATIONAL SANITATION FOUNDATION (NSF) THAT WILL REMAIN LEGIBLE DURING NORMAL HANDLING, STORAGE AND INSTALLATION. PIPE COLOR SHALL BE BLUE FOR WATER MAINS.

### HYDROSTATIC AND LEAKAGE TEST

WATER MAINS SHALL BE TESTED AS A WHOLE OR IN SECTIONS BETWEEN VALVES. THE MAINS SHALL BE TESTED IN ACCORDANCE WITH SECTION 4. HYDROSTATIC TESTING: AWWA C600-87 UNDER AN AVERAGE HYDROSTATIC PRESSURE OF NOT LESS THAN 150 POUNDS PER SQUARE INCH FOR A MINIMUM OF 2 HOURS. ALL VALVES SHALL BE TESTED FOR SECURE CLOSURE.

ALL PUMPS, GAUGES AND MEASURING DEVICES SHALL BE FURNISHED, INSTALLED AND OPERATED BY THE CONTRACTOR AND ALL SUCH EQUIPMENT AND DEVICES AND THEIR INSTALLATION, SHALL BE APPROVED BY THE COUNTY INSPECTOR. ALL WATER FOR TESTING AND FLUSHING SHALL BE POTABLE WATER PROVIDED BY THE CONTRACTOR, AT NO COST TO THE COUNTY, FROM A SOURCE APPROVED BY THE ENGINEER. THE QUANTITY USED, WHICH SHALL BE COMPARED TO THE ALLOWABLE QUANTITY, SHALL BE MEASURED BY PUMPING FROM A CALIBRATED CONTAINER, AGAIN APPROVED BY THE COUNTY INSPECTOR.

### STERILIZATION

AFTER COMPLETION OF PRESSURE TESTING AS DESCRIBED IN LEAKAGE TEST, THE CONTRACTOR SHALL DISINFECT ALL PIPE AND FITTING INSTALLED IN THE SYSTEM, AND RECEIVE THE REQUIRED APPROVALS AND CLEARANCES PRIOR TO PLACING THE SYSTEM IN SERVICE. THE DISINFECTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF AWWA STANDARD C 651, "DISINFECTING WATER MAINS", AND ALL APPROPRIATE APPROVAL AGENCIES AND THE COUNTY PUBLIC UTILITIES DEPARTMENT "PROCEDURES FOR WATER MAIN FLUSHING, DISINFECTION, AND BACTERIOLOGICAL TESTING". CARE SHALL BE TAKEN TO PROVIDE DISINFECTION OF THE ENTIRE SYSTEM. AFTER DISINFECTION, THE LINE SHALL BE THOROUGHLY FLUSHED UNTIL WATER SAMPLES SHOW A CHLORINE CONTENT EQUAL TO OR LESS THAN THE EXISTING SYSTEM.

## PAVING AND DRAINAGE CONSTRUCTION NOTES

- GENERAL**  
 ALL WORKMANSHIP, MATERIALS, AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT ENGLISH EDITION, FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION AND HILLSBOROUGH COUNTY LAND DEVELOPMENT CODE, LATEST EDITION.
- STREET PAVING**  
 SUBGRADE: THE SUBGRADE SHALL BE IN PLACE SANDS COMPACTED TO 98% IN ACCORDANCE WITH AASHTO T-180, 12" MINIMUM THICKNESS.  
 BASE COURSE: MINIMUM 8" COMPACTED TO MIN. 98% IN ACCORDANCE WITH AASHTO T-180 WITH TWO APPLICATION AND PRIMED.  
 ASPHALTIC CONCRETE: THE SURFACE COURSE SHALL BE TYPE 5-1 ASPHALTIC CONCRETE, 1.3-3/4" THICK.  
 CURB: THE "TYPE D" CURB SHALL BE CONSTRUCTED IN ACCORDANCE WITH HILLSBOROUGH COUNTY STANDARDS.
- STORM DRAINAGE**  
 GENERAL: UPON COMPLETION, ALL CULVERTS ARE TO BE AT GRADE, UNIFORM ALIGNMENT, FREE OF DEBRIS AND CLEAN.  
 CULVERT PIPE: PIPE FOR CULVERTS SHALL BE REINFORCED CONCRETE ALL PIPE SHALL BE CLASS III, UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL LIFTING HOLES ARE TO BE MORTARED CLOSED BEFORE BACKFILLING.  
 INLETS AND MANHOLES: DRAINAGE STRUCTURES SHALL BE CONSTRUCTED OF REINFORCED CONCRETE COMPLETE WITH FRAME AND COVERS.
- REPORT OF SUBSURFACE CONDITIONS**  
 A COPY OF THE SOILS INVESTIGATIONS REPORT (PERFORMED BY TERRA, INC.) IS AVAILABLE FROM H.T. MAI, INC., TELEPHONE NUMBER (813) 969-0600.  
 THE ENGINEER DISCLAIMS ALL RESPONSIBILITY FOR FINDINGS AND INTERPRETATIONS EXPRESSED IN THE REPORT BY THE TESTING LABORATORY. CONTRACTOR SHALL MAKE WHATEVER SUBSURFACE INVESTIGATIONS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO THE ACTUAL FIELD CONDITIONS.
- TESTING**  
 THE OWNER WILL PAY FOR ALL TEST REQUIRED BY HILLSBOROUGH COUNTY EXCEPT THOSE PROVING SATISFACTORY OPERATION OF ALL INSTALLED EQUIPMENT, PRESSURE AND LEAKAGE TEST, AND BACTERIOLOGICAL TESTS, FOR PIPE, STRUCTURES, AND ASPHALTIC MATERIALS. THE MANUFACTURER'S OR SUPPLIER'S CERTIFICATE THAT THE MATERIALS MEET THE REQUIREMENTS OF THE OWNER'S REPRESENTATIVE. ANY TESTS WHICH HAVE TO BE MADE BECAUSE OF THE FAILURE OF INSTALLED MATERIALS TO MEET SPECIFICATIONS SHALL BE PAID FOR BY THE CONTRACTOR AND COSTS OF ANY SUCH TEST SHALL BE DEDUCTED FROM PAYMENTS DUE THE CONTRACTOR.  
 THE OWNER WILL RETAIN A CERTIFIED ENGINEERING TESTING LABORATORY TO PERFORM ALL MATERIALS TESTING SPECIFIED IN THE TECHNICAL SPECIFICATION AND AS MAY BE REQUIRED BY THE APPROPRIATE GOVERNMENTAL AGENCY HAVING JURISDICTION. THE REQUIRED MATERIALS TESTING IS SUMMARIZED HEREIN ON THE ATTACHED TABLE FOR THE SUBCONTRACTOR TO ENSURE THAT THE REQUIRED TESTING HAS BEEN MADE PRIOR TO COVERING UP ANY OF THE WORK.
- SIDEWALKS**  
 SHALL BE CONSTRUCTED, WHERE SHOWN, IN ACCORDANCE WITH HILLSBOROUGH COUNTY STANDARDS. SIDEWALKS SHALL BE FIVE FEET WIDE AND FOUR INCHES THICK WITH 6x6/10x10 WWF, UNLESS OTHERWISE SPECIFIED. COMPACTION UNDER SIDEWALK SHALL BE 96% MAX. DENSITY IN ACCORDANCE WITH AASHTO T99-70.

### SEWAGE COLLECTION/TRANSMISSION

- ALL SANITARY SEWER CONSTRUCTION SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF HILLSBOROUGH COUNTY "WATER AND WASTEWATER TECHNICAL STANDARDS" INCLUDING, SHOP DRAWINGS AND SUBMITTALS, CONSTRUCTION MATERIALS AND METHODS, EXCAVATION AND BACKFILL, COMPACTION, SCHEDULING OF INSPECTORS AND INSPECTIONS, TESTING, AND RECORDING OF AS-BUILT INFORMATION. THE CONTRACTOR SHALL OBTAIN THE NECESSARY NUMBER OF SETS TO INSURE THAT EACH CREW FOREMAN HAS A SET AVAILABLE AT THE WORKSITE.
- THE CONTRACTOR SHALL PERFORM A TELEVISION INSPECTION ON ALL GRAVITY SEWERS, AND A PRESSURE TEST ON ALL FORCE MAINS, IN ACCORDANCE WITH HILLSBOROUGH COUNTY REQUIREMENTS. TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO HILLSBOROUGH COUNTY FOR APPROVAL. THE SCHEDULING, COORDINATION, AND NOTIFICATION OF ALL TEST PARTICIPANTS IS THE CONTRACTOR'S RESPONSIBILITY.
- ALL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), STATE OF FLORIDA "TRENCH SAFETY ACT", AND ALL OTHER CODES AND REGULATIONS APPLICABLE TO THE WORK.
- PVC WASTEWATER GRAVITY PIPE SHALL BE OF MADE OF PVC MATERIAL HAVING A CELL CLASSIFICATION OF 12454 B, 12445 C OR 13354 B AS DEFINED IN ASTM D1784. PVC PIPE AND FITTINGS USED IN FOR THE GRAVITY SEWER SYSTEM SHALL MEET REQUIREMENTS OF ASTM D3034.

EACH LENGTH OF PVC SANITARY PIPE SHALL BE MARKED WITH THE FOLLOWING INFORMATION: SIZE, MANUFACTURER, PVC SEWER PIPE, ASTM DESIGNATION, MANUFACTURER'S CODE, CELL CLASSIFICATION AND APPROVAL SEAL OF THE NATIONAL SANITATION FOUNDATION (NSF) THAT WILL REMAIN LEGIBLE DURING NORMAL HANDLING, STORAGE AND INSTALLATION. PIPE COLOR SHALL BE GREEN FOR WASTEWATER MAINS.

PVC WASTEWATER FORCE MAIN PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM D2241. PVC RESIN COMPOUND SHALL CONFORM TO THESE REQUIREMENTS OF ASTM D1784. THE PIPE SHALL CONFORM TO THESE STANDARDS: DIMENSION RATIO (DR) OF 21, WORKING PRESSURE OF 200 PSI AND LAYING LENGTH OF 20 FEET.

EACH LENGTH OF PVC SANITARY PIPE SHALL BE MARKED WITH THE FOLLOWING INFORMATION: SIZE, MANUFACTURER, PVC SEWER PIPE, ASTM DESIGNATION, MANUFACTURER'S CODE, CELL CLASSIFICATION AND APPROVAL SEAL OF THE NATION SANITATION FOUNDATION (NSF) THAT WILL REMAIN LEGIBLE DURING NORMAL HANDLING, STORAGE AND INSTALLATION. PIPE COLOR SHALL BE GREEN FOR FORCE MAINS UNLESS OTHERWISE APPROVED BY HILLSBOROUGH COUNTY.

ALL PVC FORCE MAINS SHALL HAVE A SUITABLE ELECTRONIC LOCATOR TAPE BURIED APPROXIMATELY ONE FOOT BELOW GRADE OVER THE WATER MAIN. THE TAPE SHALL BE CONTINUOUS BETWEEN VALVES AND SECURED TO EACH VALVE. THE TAPE SHALL BE AT LEAST 5 MILS THICK, 2 INCH MINIMUM WIDTH AND MADE WITH AN ALUMINUM MATERIAL SANDWICHED BETWEEN 2 LAYERS OF POLYETHYLENE. IT SHALL HAVE IMPRINTED IN PERMANENT BLACK INK WITH 1 INCH LETTERS "CAUTION FORCE MAIN BURIED BELOW" ON GREEN BACK-GROUND. TAPES SHALL BE ELECTRONICALLY DETECTABLE TAPE.

ALL WASTEWATER MAINS SHALL HAVE A MINIMUM OF 36" COVER.

THE CONTRACTOR IS TO MARK IN WHITE THE AREA FO EXCAVATION PRIOR OF TO "SUNSHINE ONE CALL"

THE CONTRACTOR IS TO CONTACT THE WATER DEPARTMENT'S FACILITIES MAINTENANCE REPRESENTATIVE DERRICK YOUNG (WATER TEAM) & PATRICK KILLGORE (SEWER/RECLAIMED TEAM), PHONE #(813) 554-5010, NO LESS THAN 48 HOURS PRIOR TO THE START OF CONSTRUCTION FOR COORDINATION AND PREPAREDNESS IN THE EVEN FACILITIES ARE DAMAGED BY THE CONSTRUCTION.

A FACILITIES MAINTENANCE REPRESENTATIVE FROM HILLSBOROUGH COUNTY, WATER DEPARTMENT MUST BE PRESENT AT CONSTRUCTION ISSUES DONE TO OR IN THE IMMEDIATE VICINITY OR THEIR FACILITY.

THE CONTRACTOR IS TO "PROTECT-IN-PLACE" ALL COUNTY FACILITIES THAT ARE NOT TO BE RELOCATED OR/AND REMOVED BUT ARE TO REMAIN.

THE CONTRACTOR/DESIGNER MUST VERIFY THE LOCATION AND ELEVATION OF ALL COUNTY FACILITIES THAT FALL WITHIN THE LIMITS OF THIS PROJECT PRIOR TO CONSTRUCTION.

A MINIMUM OF 18" VERTICAL AND 36" HORIZONTAL SEPARATION MUST BE MAINTAIN BETWEEN YOUR PROPOSED FACILITIES AND EXISTING/PROPOSED COUNTY FACILITIES AS PER COUNTY STANDARDS.

## SITE PREPARATION AND EARTHWORK NOTES

- GENERAL**  
 ALL WORKMANSHIP, MATERIALS, AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION AND HILLSBOROUGH COUNTY LAND DEVELOPMENT CODE, LATEST EDITION
- EXCAVATION**  
 CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS MAY BE NECESSARY TO PROPERLY ACCOMPLISH THIS WORK. UNDERGROUND UTILITIES TO REMAIN FROM DAMAGE. SHOULD ANY UTILITIES BE ENCOUNTERED THAT ARE NOT INDICATED ON THE PLANS NOTIFY THE OWNER'S REPRESENTATIVE.
  - DISPOSAL: SURPLUS MATERIAL FROM EXCAVATIONS, TRASH, DEBRIS AND MATERIALS RESULTING FROM CLEARING, GRUBBING, AND OTHER OPERATIONS SHALL BECOME THE PROPERTY OF CONTRACTOR AND SHALL BE DISPOSED OF BY REMOVING FROM THE SITE.
  - CLEARING AND GRUBBING: CLEAR AND GRUB TO REMOVE STUMPS, ROOTS, TREES, VEGETATION, ORGANIC MATERIALS, EXISTING PAVEMENT, STRUCTURES AND OTHER OBSTRUCTIONS TO THE WORK. ALL ORGANIC SOILS OR MUCK SHALL BE REMOVED AND BACKFILLED WITH SUITABLE MATERIALS.  
 STRIP THE TOPSOIL FROM ALL AREAS WITHIN THE LIMITS OF CLEARING AND GRUBBING AND STOCKPILE ON THE SITE. TOPSOIL MAY BE SPREAD OVER AREAS OUTSIDE BUILDING AND PAVING LINES UPON COMPLETION OF ROUGH GRADING.
- GRADING**  
 GRADE THE SITE TO THE FINISHED CONTOURS INDICATED. IMMEDIATELY BEFORE REQUESTING FINAL INSPECTIONS, CHECK THE LINES AND DRESS TO THE PROPER CONTOURS. ALL AREAS ARE TO BE STABILIZED. THESE AREAS ARE TO BE MAINTAINED UNTIL ACCEPTANCE BY OWNER. WHEN SOD, PLANT BEDS, GRAVEL AREAS AND THE LIKE ARE INDICATED ON LANDSCAPE DRAWINGS OR SPECIFIED, MAKE ALLOWANCES WHEN ROUGH GRADING FOR THE FINISHED GRADES IN THESE AREAS.
  - BORROW: SUITABLE EXCAVATED MATERIAL, AS DETERMINED BY THE OWNER'S REPRESENTATIVE, MAY BE USED FOR GRADING. PROCURE ADDITIONAL MATERIALS, WHERE NECESSARY, FROM BORROW PITS APPROVED BY THE OWNER'S REPRESENTATIVE AND FURNISH AT NO ADDITIONAL COST TO THE OWNER. BORROW MATERIALS SHALL HAVE PLASTIC INDEX OF SIX (6) OR LESS WITH A MAXIMUM OF 20 PERCENT PASSING A 200 SIEVE.
  - COMPACTION: AREAS OUTSIDE OF BUILDING AND PAVING LINES SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY (AASHTO T-180) AT OPTIMUM MOISTURE (ASTM D 1556).

## LANDSCAPE NOTES

- ALL LANDSCAPE ACTIVITY SHALL MEET THE REQUIREMENT OF APPLICABLE HILLSBOROUGH COUNTY LANDSCAPE ORDINANCE OR CODE, LATEST EDITION
- LANDSCAPE AREAS SHALL HAVE 100% IRRIGATION COVERAGE TO LANDSCAPE MATERIAL BY PERMANENT UNDERGROUND PIPING SYSTEM.
- ALL PLANT MATERIAL SHALL BE FLORIDA GRADE #1 AS PER "GRADES & STANDARDS FOR NURSERY PLANTS" AND SHALL BE WARRANTED FOR A MINIMUM OF 90 DAYS BY THE LANDSCAPE CONTRACTOR.
- TREES SHALL BE A MIN. HEIGHT OF 6" AND 2" DIAMETER TRUNK AT 6" ABOVE GRADE AT TIME OF PLANTING. HEDGE SHALL BE A MIN. OF 2' AND 50% VIEW BLOCKAGE AT TIME OF PLANTING, WITH THE CAPABILITY OF ATTAINING A MIN. HEIGHT OF 3' AND 90% VIEW BLOCKAGE WITHIN 2 YEARS.
- DURING LAND ALTERATION ACTIVITIES SOIL EROSION SHALL BE CONTROLLED HAY BALES OR SILT SCREEN. UPON COMPLETION OF OF LAND ALTERATION ACTIVITIES, EXPOSED SOIL SHALL SODDED WITH FLORATAM OR AGENTINE ONLY. ALL DISTURBED AREA WITHIN THE COUNTY OR DOT R/W SHALL BE SODDED WITH BAHIA GRASS.
- ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LDC SHALL BE PRUNING ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
- DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIP LINE OF A TREE TO REMAIN ON THE SITE UNLESS OTHERWISE APPROVED BY THE COUNTY OR CITY.
- IMMEDIATELY AFTER PLANTING OPERATION ARE COMPLETED, ALL TREES AND SHRUB PITS SHALL BE MULCHED WITH TWO INCH LAYER OF PINE BARK. THE LIMIT OF THIS MULCH FOR TREES SHALL BE THE AREA OF THE PIT AND FOR SHRUBS THE ENTIRE AREA OF THE BED.
- TOPSOIL USED FOR PLANTING SHALL BE A MIXTURE OF THREE PARTS TO ONE PART PEAT. LANDSCAPED AREAS TO RECEIVE AN SIX-INCH LAYER OF COMPACTED TOPSOIL.
- PROTECTIVE BARRIERS MUST BE INSTALLED AROUND TREES TO BE RETAINED IN AN AREA WHERE THE LAND ALTERATION AND CONSTRUCTION ACTIVITIES WILL OCCUR AS WELL AS ALONG NATURAL AREA WHERE SUCH AREA ADJACENT TO PERMITTED LAND ALTERATION OR CONSTRUCTION ACTIVITIES. A PROTECTIVE BARRIER MUST REMAIN IN PLACE UNTIL THE LAND ALTERATION OR CONSTRUCTION ARE COMPLETED OR UNTIL COMMENCEMENT OF GRADE FINISHING AND SODDING. NO GROUND DISTURBANCE IS ALLOWED WITHIN THE BARRICADED AREA.
- ALL SOD ON SITE IS TO BE BAHIA GRASS.
- SOD SHALL BE INSTALLED IN ALL LANDSCAPE ISLANDS, BUFFERS AND 2" STRIP ADJACENT NEW ASPHALT PAVEMENT NOT ADJUTING LANDSCAPE AREA.
- IRRIGATION SYSTEMS MUST UTILIZE LOW VOLUME DESIGN SUCH AS LOW TRAJECTORY HEADS OR SPOON HOSES TO PROVIDE DIRECT APPLICATION AND LOW EVAPORATION. SYSTEMS THAT OVER SPRAY AREAS THAT DO NOT REQUIRE IRRIGATION, SUCH AS PAVED AREAS WILL NOT BE ACCEPTABLE. HIGH IRRIGATION NEED AREAS MUST NOT OVER SPRAY LOW NEED AREAS.
- HIGH WATER DEMAND LANDSCAPE AREAS SUCH AS TURF MUST BE SERVED BY A SEPARATE IRRIGATION ZONE THAN LOW WATER NEED AREAS, SUCH AS PLANTER BEDS, OR MULCHED AREAS WITH TREES. IN NO CASE, SHALL ANY PLANTED VEGETATION AREA BE MORE THAN 50' FROM A WATER SUPPLY HOSE BIBB.
- IRIGATION SYSTEM MUST BE OPERATED BY AN IRRIGATION CONTROLLER CAPABLE OF DIFFERENTIATING BETWEEN THE SCHEDULES OF HIGH AND LOW WATER DEMAND AREAS. CONTROLLERS MUST HAVE MULTIPLE CYCLES CYCLES START CAPACITY AND A FLEXIBLE CALENDER PROGRAM ABLE TO BE SET TO COMPLY WITH LOCAL OR WATER MANAGEMENT DISTRIC IMPOSED RESTRICTIONS.
- THE SYSTEM MUST BE EQUIPPED WITH A RAIN SENSOR DEVICE OR SWITCH WHICH WILL OVERRIDE THE IRRIGATION CYCLE OF THE SPRINKLER SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. GROUND MOISTURE SENSING DEVICES ARE ENCOURAGED WHERE APPROPRIATED.
- THE SOURCE OF IRRIGATION WATER FOR LANDSCAPING WILL BE HILLSBOROUGH COUNTY RECLAIMED WATER.

## OPERATION AND MAINTENANCE INSTRUCTIONS AND GUIDELINES

- THE OWNER SHALL CHECK WEIR (AND/OR ORIFICE) IN ALL CONTROL STRUCTURES PERIODICALLY TO ASSURE THAT THEY ARE FREE FROM DEBRIS WHICH MAY HAVE EFFECT ON THEIR HYDRAULIC FUNCTION. ANY DAMAGES OR CLOGGING NEED TO BE REPAIRED AND/OR CLEANED IMMEDIATELY.
- THE REMOVAL OF NATIVE VEGETATION (INCLUDING CATTAILS) IS PROHIBITED WITHIN THE WET DETENTION POND. REMOVAL INCLUDES DREDGING, THE APPLICATION OF HERBICIDE, INTRODUCTION OF GRASS CARP AND CUTTING. THE PROPERTY OWNER AND/OR OPERATION/MAINTENANCE ENTITY SHALL NOT REMOVE NATIVE VEGETATION THAT BECOMES ESTABLISHED WITHIN THE WET DETENTION POND.
- THE OWNER AND/OR OPERATION/MAINTENANCE ENTITY SHALL NOT CONSTRUCT OR MAINTAIN ANY BUILDING OR STRUCTURE OR UNDERTAKE OR PERFORM ANY ACTIVITY IN THE WETLANDS, BUFFER AREAS, DRAINAGE EASEMENTS AND CONSERVATION AREAS.
- THE POND BANKS SHOULD BE REGULARLY MOWED, WITH GRASS CLIPPINGS REMOVE FROM THE POND, AND NOTE THAT ANY ERODED BANKS SHOULD BE REPAIRED AND RESODDED TO MAINTAIN THE CORRECT VOLUME.
- PICK UP GRASS CLIPPINGS AFTER CUTTING. MOW FREQUENTLY ENOUGH TO PREVENT THATCH BUILDUP. LIMIT FERTILIZER USE AROUND THE RETENTION POND AND DO NOT FERTILIZE GRASS IN THE POND AREA.
- RESOD DISTURBED SIDE SLOPE AND ANY AREAS WHERE GRASS OR SOD HAS BEEN REMOVED OR ERODED.
- ALL STORM WATER PIPES, INLETS, CATCH BASINS, MANHOLES, FLUMES, POND INFLOW AND OUTFALL STRUCTURES, INCLUDING OIL SKIMMERS AND DISCHARGE PIPES, SHOULD BE INSPECTED ON REGULAR BASIS (MONTHLY OR QUARTERLY) AND AFTER SEVERE RAINFALLS. THEY SHOULD BE MAINTAINED TO OPERATE AS DESIGNED BY REMOVING BUILT UP DEBRIS AND VEGETATION FROM INLETS, OUTLETS, CULVERTS. REPAIR DETERIORATION STRUCTURES.
- NOTE THE CHEMICAL, OILS, GREASES, OR SIMILAR WASTES ARE NOT TO BE DISPOSED OF DIRECTLY TO THE STORM SEWERS TO THE STORMWATER FACILITY. TREATMENT PONDS ARE DESIGNED TO REMOVE NORMAL ROAD, PARKING LOT, ROOF, AND YARD RUNOFF ONLY.
- NO ALTERATION OF ANY PART OF THE STORMWATER FACILITIES IS PERMITTED WITHOUT PRIOR APPROVAL FORM ALL APPLICABLE GOVERNING AGENCIES.
- IT IS USUALLY MORE COST EFFECTIVE TO MONITOR AND PERFORM ROUTINE MAINTENANCE ON SURFACE WATER MANAGEMENT SYSTEM THAN TO LET IT FAIL AND THEN HAVE TO RECONSTRUCT THE ENTIRE SYSTEM.



Know what's below.  
Call before you dig.

Determina lo que está bajo tierra.  
Llama antes de excavar.

## H.R.S. STANDARD SEPARATION STATEMENT FOR WATER/SEWER CONFLICTS

- SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDER WATER MAINS, SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

WHERE SANITARY SEWERS, FORCE MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED.) SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING.

WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER THE WATER MAIN, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES AND 10 FEET BETWEEN JOITS SHALL BE REQUIRED.

ALL CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.

A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELVE LOCATED ON THE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARELLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED.

## CONSTRUCTION SCHEDULE AND TECHNIQUES

THE FILL MATERIAL WILL BE CLEAN FINE SAND FROM A PERMITTED BORROW PIT.

HAYBALES OR SILT SCREEN SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS AND AROUND THE INLETS AFTER THEIR CONSTRUCTION AND THE EROSION CONTROL SHALL REMAIN IN PLACE UNTIL GRADING AND ROAD CONSTRUCTION IS COMPLETE. REMOVE SILT SCREEN OR HAY BALES AFTER SOIL STABILIZATION.

NO DETERIORATION IS EXPECTED DURING THE CONSTRUCTION UNLESS INCIDENTAL TO ROAD CONSTRUCTION, GRADING AND UTILITY INSTALLATION.

P.L.A. P.E. NO. 33625

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DES.	H.T.M.	DATE	REVISION	BY	CLIENT
DRAFT.	D.M.N.				
CHECKED.	H.T.M.				
APPD.	H.T.M.				

NGA ROBLES  
5605 TPC BLVD.  
LUTZ, FLORIDA 33558-2851



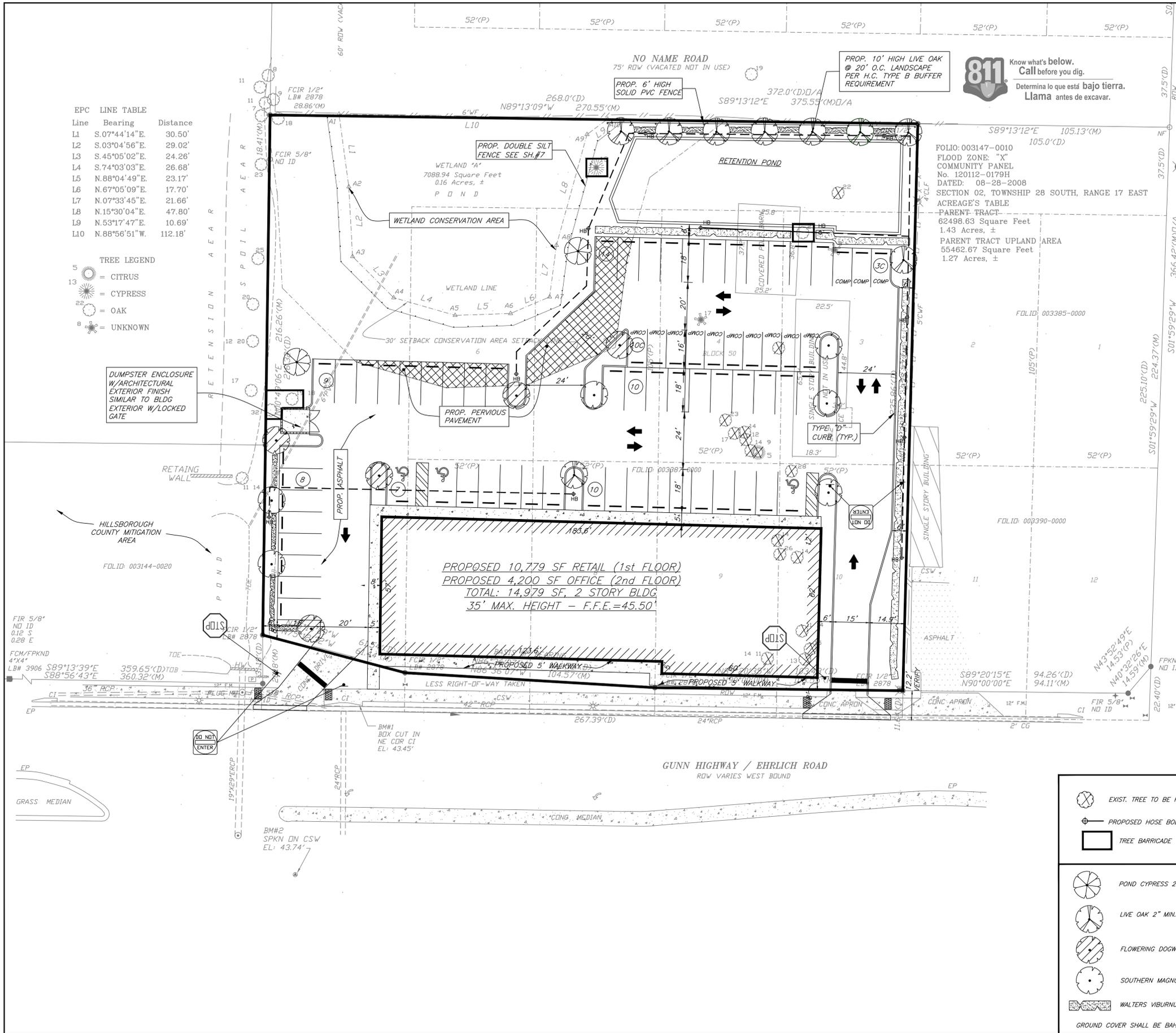
Civil, Water Resources & Environmental Engineering  
14031 N. Dale Mabry Highway, Tampa, Florida 33618  
Phone: (813) 962-6230 Fax: (813) 962-6420  
EB #6542

PROJECT	CITRUS TOWN SQUARE 7721 GUNN HIGHWAY, TAMPA, FLORIDA 33625 SECTION 02-28S-17E, HILLSBOROUGH COUNTY	JOB NUMBER	100-16-002	SHEET	2
		DATE	JAN. 2016		9
	CITRUS TOWN SQUARE				





C:\100-16-002 Citrus Town Sq\DRAWING\5 LANDSCAPE PLAN.dwg, 5/6/2016 12:48:11 PM

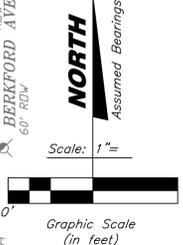


EPC LINE TABLE

Line	Bearing	Distance
L1	S.07°44'14"E	30.50'
L2	S.03°04'56"E	29.02'
L3	S.45°05'02"E	24.26'
L4	S.74°03'03"E	26.68'
L5	N.88°04'49"E	23.17'
L6	N.67°05'09"E	17.70'
L7	N.07°33'45"E	21.66'
L8	N.15°30'04"E	47.80'
L9	N.53°17'47"E	10.69'
L10	N.88°56'51"W	112.18'

TREE LEGEND

5	CITRUS
13	CYPRESS
22	OAK
8	UNKNOWN



**PROTECTIVE BARRIER REQUIREMENTS AND SPECIFICATIONS FOR EXISTING TREES TO REMAIN**

PROTECTIVE BARRIERS are used during land alteration and construction activities to protect trees and natural areas to be retained on a site.

PROTECTIVE BARRIERS must be erected around TREES to be retained within an area where land alteration and construction activities will occur as well as along NATURAL AREAS where such areas are adjacent to permitted land alteration or construction activities. A PROTECTIVE BARRIER must remain in place until the land alteration and construction activities are completed or until commencement of grade finishing and sodding. No ground disturbance must occur within the barricaded area. The following represents the County's minimum protective barrier specifications.

**1. TREES** - To restrict access into the area within the CANOPY DRUPLINE of a tree, a physical structure not less than 3 feet in height, comprised of wood or other suitable material, is placed around the tree at the CANOPY DRUPLINE, except where land alteration or construction activities are approved within the CANOPY DRUPLINE.

The CANOPY DRUPLINE of a tree is the imaginary, vertical line that extends downward from the outermost tips of the tree's branches to the ground. Fig. A

**BARRIER SPECIFICATIONS FOR TREES:**

Four corner upright stakes of no less than 2"x2" lumber connected by horizontal members of no less than 1"x4" lumber, or upright stakes spaced at 5' intervals of no less than 1" lumber connected by silt screen fabric or material of comparable durability. Fig. B

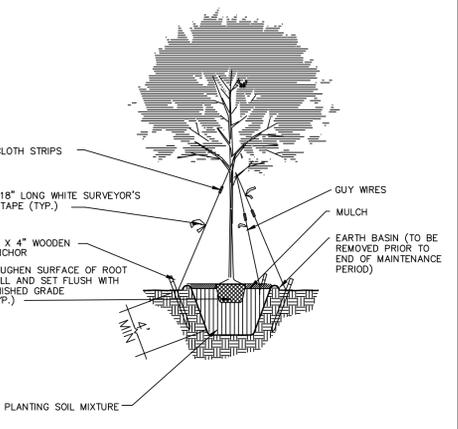
**2. NATURAL AREAS** - To restrict access into areas where land alteration and construction activities are not authorized a physical structure not less than 3 feet in height is placed along the perimeter of such areas.

**BARRIER SPECIFICATIONS FOR NATURAL AREAS:**

Upright stakes of no less than 1"x1" lumber spaced no more than 25' apart and connected by twine flagged with plastic surveying tape at regular intervals of 5'-10'. Fig. C. Other methods of demarcation will be considered depending upon the characteristics of the site.

**WHY A BARRIER**

1. To protect all above ground portions of trees and other significant vegetation from mechanical damage.
2. To protect root systems from compaction.
3. To provide awareness of protected areas to equipment operators.

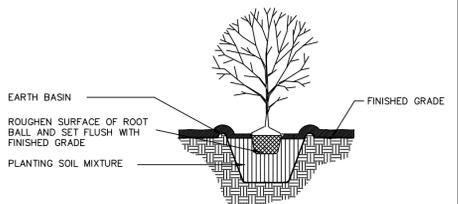


PROVIDE DOUBLE STRAND 12" GAUGE ANNEALED GALVANIZED STEEL GUYING WIRE.

PROVIDE HOSE CHAFING GUARD OF 2 PLY REINFORCED GREEN RUBBER OR PLASTIC HOSE AND INSTALL SO THAT GUY WIRE DOES NOT CONTACT TRUNK OR BRANCHES

PROVIDE ROUGH SAWN WOOD TREE ANCHORS FREE FROM KNOTS, ROT, CROSS GRAIN, BARK, SPLITS OR OTHER DEFECTS WHICH WOULD IMPAIR THEIR STRENGTH. MINIMUM DIMENSIONS ARE 2" X 4" X 4" LONG

TREE STAKING DETAIL



SHRUB PLANTING DETAIL

- EXIST. TREE TO BE REMOVED
  - PROPOSED HOSE BOB LOCATION W/ 3/4" PVC SUPPLY PIPING
  - TREE BARRICADE
  - POND CYPRESS 2" MIN. DBH, 8' HIGH, FL GRADE 1.
  - LIVE OAK 2" MIN. DBH, 10' HIGH, FL GRADE 1.
  - FLOWERING DOGWOOD, 2" MIN. DBH, 8' HIGH, FL GRADE 1.
  - SOUTHERN MAGNOLIA 2" MIN. DBH, 8' HIGH, FL GRADE 1.
  - WALTERS VIBURNUM MIN. 24" HIGH @ PLANTING, 3' O.C.
- GROUND COVER SHALL BE BAHIA GRASS

DES.	H.T.M.
DRFT.	D.M.N.
CHKD.	H.T.M.
APPD.	H.T.M.

NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BOX

DATE	REVISION	BY	CLIENT

NGA ROBLES  
5605 TPC BLVD.  
LUTZ, FLORIDA 33558-2851

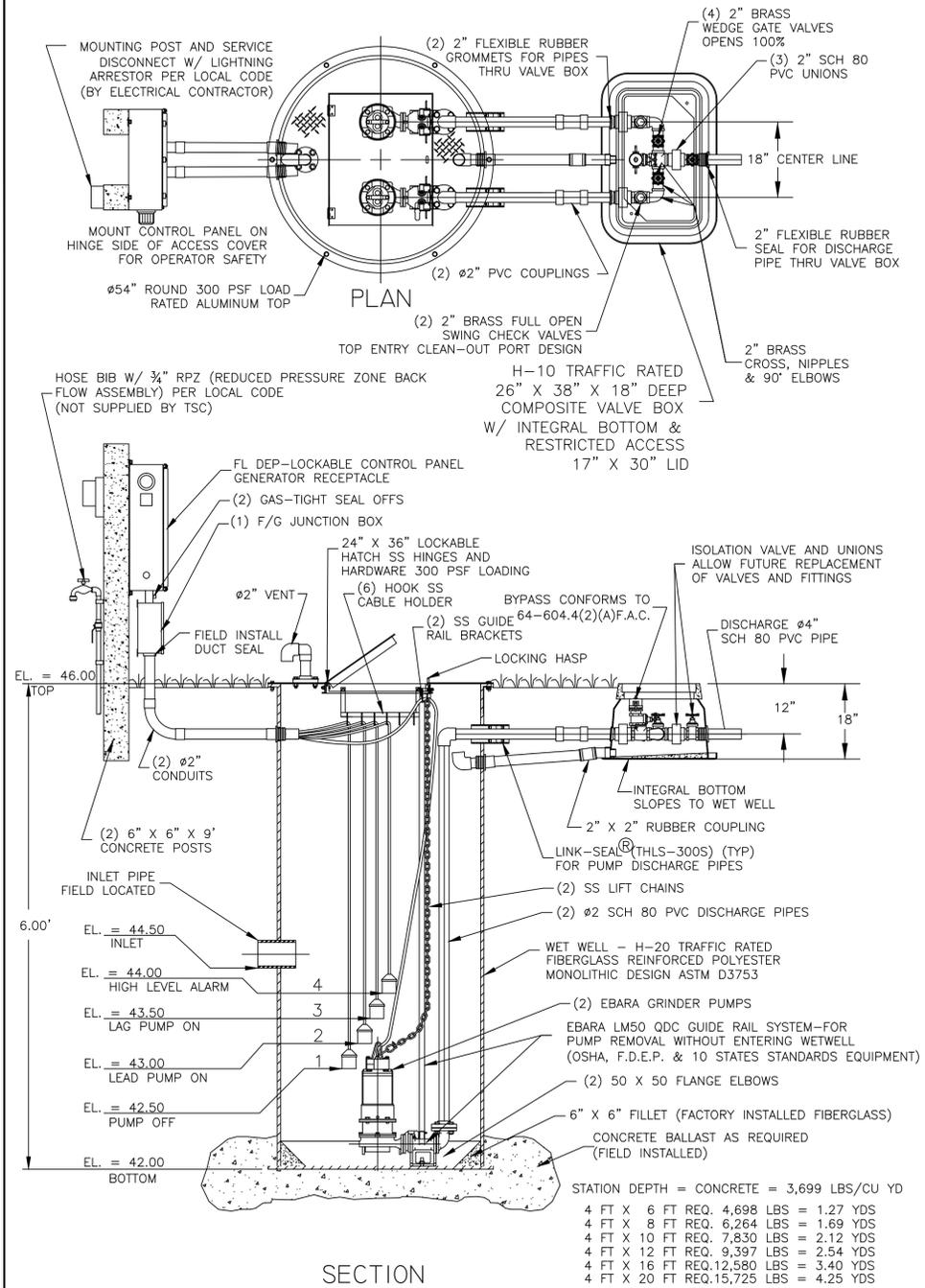
**Civil, Water Resources & Environmental Engineering**  
14031 N. Dale Mabry Highway, Tampa, Florida 33618  
Phone: (813) 962-6230 Fax: (813) 962-6420  
EB #6542

PROJECT: CITRUS TOWN SQUARE  
7721 GUNN HIGHWAY, TAMPA, FLORIDA 33625  
SECTION 02-28S-17E, HILLSBOROUGH COUNTY

JOB NUMBER: 100-16-002  
DATE: JAN. 2016

SHEET: 5 OF 9

**LANDSCAPE PLAN**



**EBARA SEWAGE GRINDER PUMP  
48\"/>**

- 2. GROUT FILLET (1 TO 1 SLOPE TO "HOPPER" BOTTOM)
- 1. HOSE BIBB WITH REDUCED PRESSURE BACK FLOW PREVENTER FIELD INSTALL BY CONTRACTOR

DES.	H.T.M.	NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BOX	DATE	REVISION	BY	CLIENT
DRFT.	D.M.N.					
CHKD.	H.T.M.					
APPD.	H.T.M.					

**GENERAL NOTES**

FURNISH AND INSTALL EBARA SUBMERSIBLE GRINDER PUMPS:

**DESIGN CONDITION:**

MODEL	50 DGFU	3	HP
GPM	72.0	62	FT/TDH
VOLTAGE	208 / 230	THREE	PHASE
DISCHARGE	2"	5-3/8"	IMPELLER

**SEWAGE GRINDER PUMP:** RATED FOR TWENTY (20) STARTS PER HOUR.

- AIR FILLED MOTOR DESIGNED FOR SEWAGE APPLICATION WITH CLASS F INSULATION.
- DUAL MECHANICAL SHAFT SEALS (SILICON CARBIDE / SILICON CARBIDE) LOCATED OUT OF THE PUMPAGE, IN A SEPARATE OIL FILLED CHAMBER.
- HIGH TEMPERATURE BALL BEARINGS B-10 RATING OF 60,000 HOURS, UPPER BEARING - SINGLE ROW AND LOWER BEARINGS - DOUBLE ROW TYPE.
- PUMP SHAFT HORSEPOWER (BHP) SHALL NOT EXCEED MOTOR RATED HORSEPOWER THROUGHOUT THE ENTIRE OPERATING RANGE OF THE PUMP PERFORMANCE CURVE.
- SINGLE PHASE MOTORS SHALL BE DUAL WOUND, CAPACITOR START-RUN AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260). THREE PHASE MOTORS SHALL BE DUAL WOUND AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260) OR OPERATE ON 460 VOLT BY CHANGING THE MOTOR LEADS INSIDE THE PUMP.

**FIBERGLASS WET WELL:** SHALL BE A ONE PIECE UNIT WITH INTEGRAL BOTTOM, WALL AND UPPER FLANGE. THE ENTIRE FIBERGLASS WET WELL SHALL HAVE A DYNAMIC LOAD RATING OF 16,000 FT/LBS. EACH UNIT MUST BE SERIAL NUMBERED TO IDENTIFY THE TEST PROCEDURE. ASTM D 3753 & H-20 SPECIFICATIONS SHALL BE REQUIRED AS MINIMUM.

**ALUMINUM HATCH:** TSC MODEL-54R (54") ROUND WITH 24" X 36" LOCKABLE HATCH, REINFORCED FOR LOAD RATING OF 300 LBS/FT WITH HOLD OPEN SAFETY ARM, LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

**VALVE BOX:** FIBERGLASS COMPOSITE (H-10 TRAFFIC RATED) WITH INTEGRAL BOTTOM. (FOR 1 1/4" AND 2" DISCHARGE PIPING SXS HEADER SYSTEM) SHALL BE 26" X 38" X 18" WITH 17" X 30" LIMITED ACCESS LID

**ACCESSORIES:** #304 S/S - GUIDE RAILS, UPPER GUIDE RAIL BRACKETS, CABLE HOLDER, ANCHOR BOLTS AND PUMP LIFTING CHAINS.

**VALVES:** SHALL BE SEWAGE SERVICE DESIGN BRASS SWING CHECK VALVES WITH TOP ENTRY CLEAN-OUT PORT AND BRASS WEDGE GATE VALVES OPEN 100%.

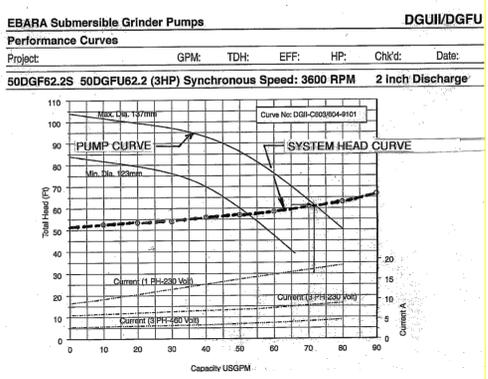
**PIPING:** 2" SCHEDULE 80 PVC.

**FLOAT SWITCHES:** UL LISTED SJ ELECTRO MODEL (SJ 30 SWENO).

PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, JUNCTION BOX, FLOAT SWITCHES, ALUMINUM HATCH AND ACCESSORIES TO INSURE PROPER OPERATION AND WARRANTY.

THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, SLIDE RAIL ASSEMBLIES AND DISCHARGE PIPING ASSEMBLED BY TECHNICAL SALES CORPORATION READY TO SHIP FOR FIELD INSTALLATION. THE MANUFACTURER OF PRE-FAB PUMP SOLUTIONS®.

TECHNICAL SALES CORPORATION, 4621 N. HALE AVE TAMPA, FL 33614 (813)876-9256



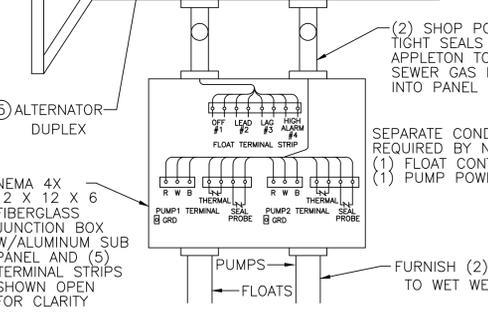
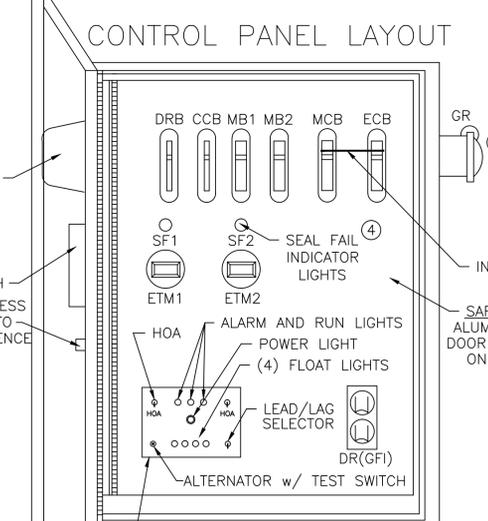
**CONTROL PANEL** -SHALL CONFORM TO FL DEP 64-604.42(A)  
CONTROL PANEL SHALL BE TSC MODEL # 38-D IN NEMA 4X FIBERGLASS ENCLOSURE. THE PANEL SHALL MEET STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), ENVIRONMENTAL PROTECTION COMMISSION (EPC) AND LOCAL CODE REQUIREMENTS GOVERNING PRIVATE LIFT STATIONS.

FLOAT SWITCHES AND CONTROL SYSTEM SHALL BE UL LISTED AND INTRINSICALLY SAFE. ALL COMPONENTS SHALL BE UL LISTED.

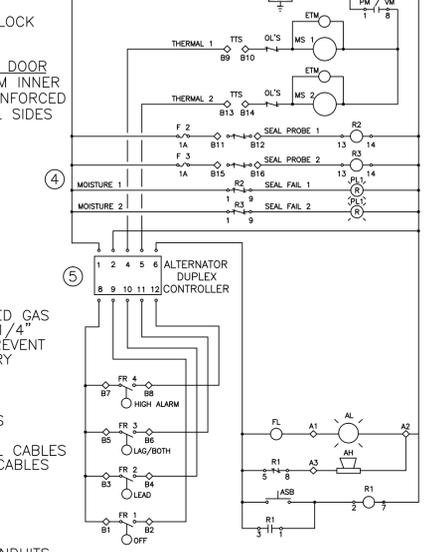
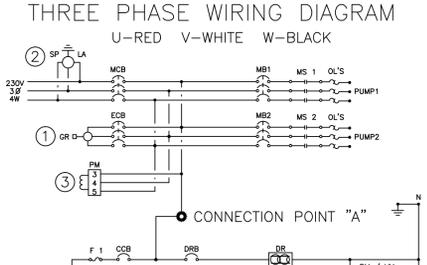
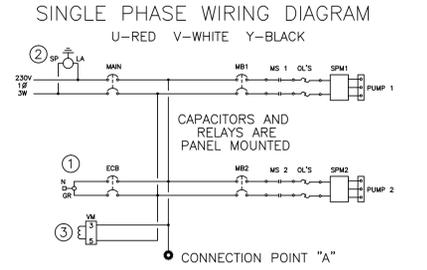
A JUNCTION BOX IS REQUIRED, WITH SHOP Poured SEALS BETWEEN BOX AND CONTROL PANEL TO PREVENT SEWER GAS ENTRY INTO CONTROL PANEL.

ELECTRICAL CONTRACTOR TO PROVIDE SERVICE DISCONNECT WITH LIGHTNING ARRESTOR MOUNTED PER LOCAL CODES.

THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTLING OR TIPPING.



- LEGEND**
- AH ALARM HORN
  - AL ALARM LIGHT
  - ASB ALARM SILENCE BUTTON
  - ATS ALTERNATOR W/ TEST SWITCH
  - CCB CONTROL CIRCUIT BREAKER
  - DR DUPLEX RECEPTACLE
  - DRB DUPLEX RECEPTACLE BREAKER
  - ECB EMERGENCY CIRCUIT BREAKER
  - ETM ELAPSED TIME METER
  - F FUSE
  - FL FLASHER
  - FS FLOAT SWITCH (REGULATOR)
  - GR GENERATOR RECEPTACLE
  - GRD GROUND
  - HOA HAND-OFF-AUTOMATIC SELECTOR
  - LA LIGHTNING ARRESTOR
  - MB MOTOR BREAKER
  - MCB MAIN CIRCUIT BREAKER
  - MS MOTOR STARTER
  - N NEUTRAL
  - OL'S OVERLOAD HEATERS
  - PM PHASE MONITOR
  - PTS PUMP TERMINAL STRIP
  - R RELAY
  - RC RUN CAPACITOR
  - RD DISCHARGE RESISTOR
  - RL PUMP RUN INDICATORS
  - RTS REGULATOR TERMINAL STRIP
  - SC START CAPACITOR
  - SF SEAL FAIL (SHAFT)
  - SR START RELAY
  - SP SURGE PROTECTOR
  - TTS THERMAL TERMINAL STRIP



- PANELS SHALL CONFORM TO FLORIDA DEP 64-604.400
- GENERATOR RECEPTACLE FOR EMERGENCY POWER CONNECTION WITH INTERLOCK
  - SURGE PROTECTION AND LIGHTNING PROTECTION ON ALL INCOMING LEGS
  - PHASE PROTECTION SHALL BE PROVIDED
  - SHAFT SEAL FAIL DETECTION
  - ALTERNATOR w/ TEST SWITCH

**IN CASE OF EMERGENCY  
CONTACT  
OUTFRONT MEDIA  
813-888-5541**

EMERGENCY CONTACT SIGN, 14"x24" MIN.  
SHALL BE MADE OF DURABLE WEATHER RESISTANT MATERIAL TO BE POSTED AT A LOCATION VISIBLE TO THE PUBLIC UNOBSTRUCTED.  
EMERGENCY CONTACT SIGN, 14"x24" MIN.

**EMERGENCY CONTACT SIGN DETAIL**

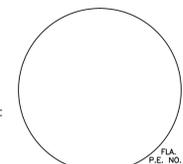
NGA ROBLES  
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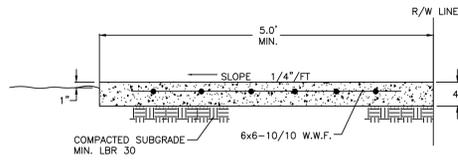
PROJECT  
CITRUS TOWN SQUARE  
7721 GUNN HIGHWAY, TAMPA, FLORIDA 33625  
SECTION 02-285-17E, HILLSBOROUGH COUNTY

JOB NUMBER  
100-16-002  
DATE  
JAN. 2016  
SHEET  
6  
OF  
9

**LIFT STATION DETAILS**

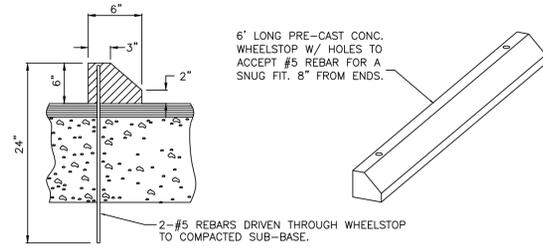


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- NOTES:
1. CONCRETE SHALL BE MINIMUM STRENGTH OF 3,000 PSI AT 28 DAYS.
  2. EXPANSION JOINT WILL BE INSTALLED EVERY 20'
  3. SAW CUT JOINT EVERY FIVE FEET

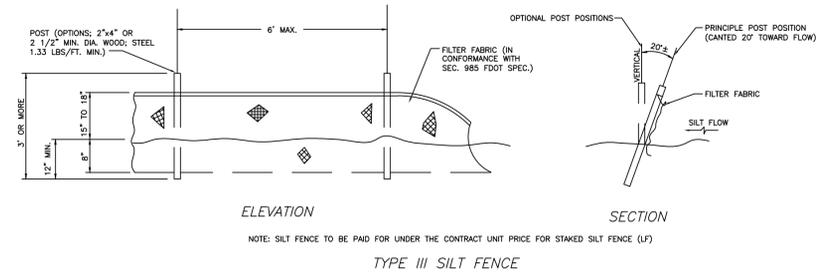
SIDEWALK DETAIL  
N.T.S.



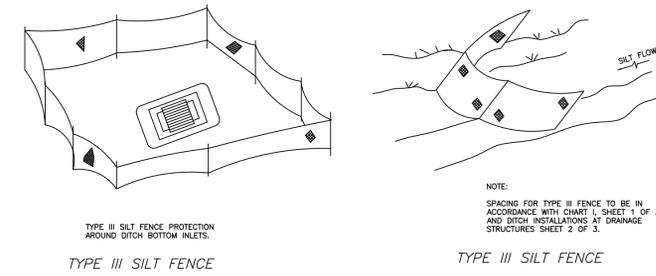
6' LONG PRE-CAST CONC. WHEELSTOP W/ HOLES TO ACCEPT #5 REBAR FOR A SNUG FIT. 8" FROM ENDS.

2-#5 REBARS DRIVEN THROUGH WHEELSTOP TO COMPACTED SUB-BASE.

PRE-CAST CONCRETE WHEELSTOP  
N.T.S.

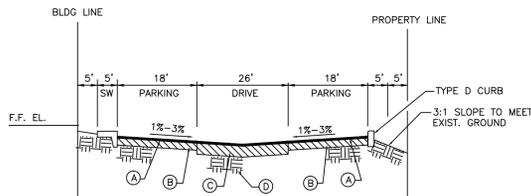


TYPE III SILT FENCE  
NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF)



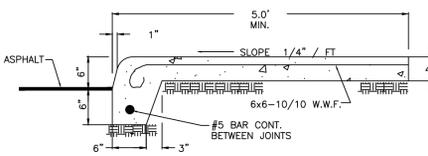
TYPE III SILT FENCE  
DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

TYPE III SILT FENCE  
NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART I, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3.

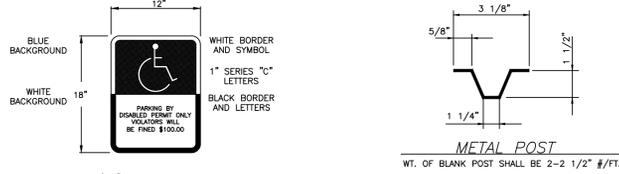


- 1 3/4" ASPHALTIC CONCRETE TYPE S-1
- 6" LIMEROCK BASE COURSE 98% OF THE MAX. MODIFIED PROCTOR DRY DENSITY (AASHTO T-180)
- 8" LIMEROCK BASE COURSE 98% OF THE MAX. MODIFIED PROCTOR DRY DENSITY (AASHTO T-180)
- COMPACTED SUBGRADE MIN. LBR 40 PSI

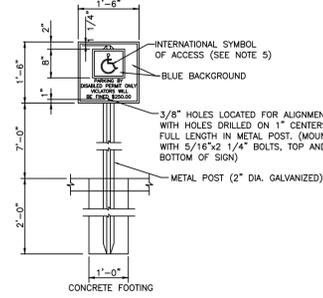
TYPICAL ASPHALT DRIVE  
N.T.S.



COMBINATION CURB & SIDEWALK  
N.T.S.

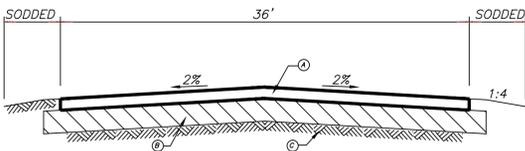


METAL POST  
WT. OF BLANK POST SHALL BE 2-2 1/2" #/FT.



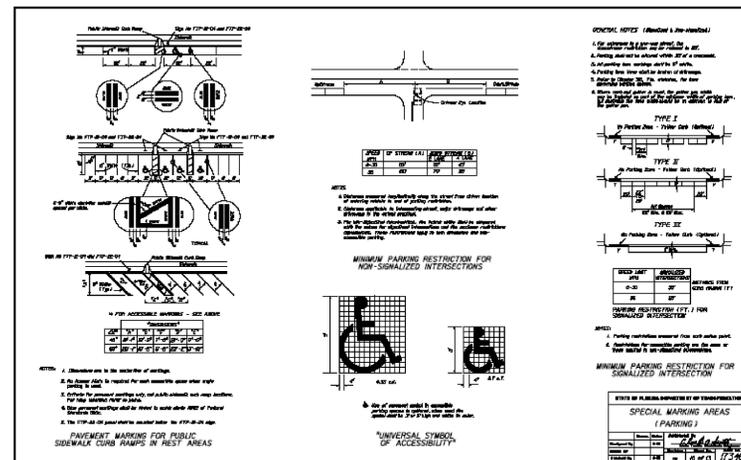
- NOTES:
1. METAL POST TO BE GALVANIZED. ALL BOLTS, NUT, WASHERS AND SCREWS MUST BE RUSTPROOF.
  2. CONCRETE FOR FOOTING SHALL BE PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I.
  3. SIGNS WILL BE FABRICATED BY USING REFLECTING COATING IN THE SYMBOL, MESSAGE AND BORDER APPLIED TO A SHEET ALUMINUM BACKING (.080) IN THICKNESS.
  4. MESSAGE LETTERING SHALL BE UPPER CASE (WHITE) (SERIES B) 2" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
  5. THE SYMBOL IS COMPOSED OF TWO ELEMENTS, A WHITE WHEELCHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (FD, STD. 505a, COLOR #15180).
  6. SIGN POST SHALL BE MIN. 2'-0" CLEAR FROM BACK OF CURB.

HANDICAP PARKING SPACES  
N.T.S.



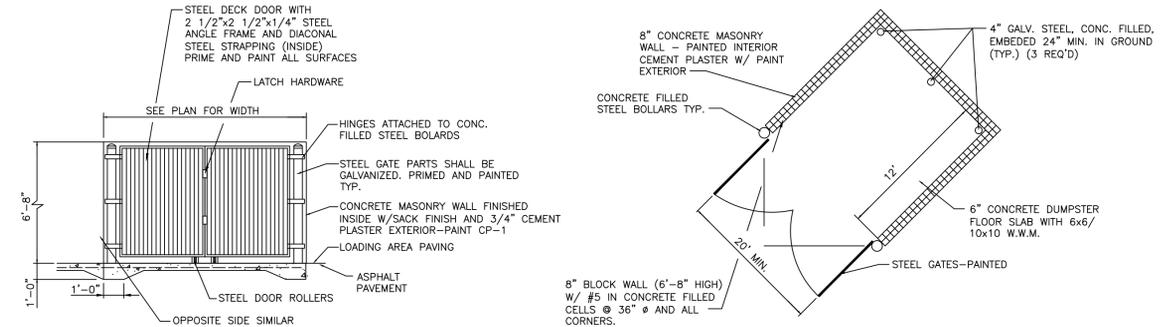
- 6" CONCRETE CLASS I (PAVEMENT) MIN 3000 PSI
- 12" LIMEROCK BASE COURSE (2 APPL., PRIMED) LBR 100, 98% DENSITY PER AASHTO T-180.
- 12" MINIMUM TYPE B STABILIZATION

PAVEMENT IN FDOT RIGHT-OF-WAY  
(FDOT INDEX 515 URBAN TURNOUT)  
N.T.S.



MINIMUM PARKING RESTRICTION FOR NON-SIGNALIZED INTERSECTIONS

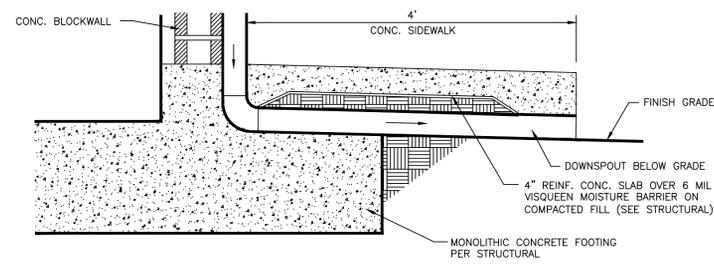
MINIMUM PARKING RESTRICTION FOR SIGNALIZED INTERSECTION



DUMPSTER ELEV.  
N.T.S.

DUMPSTER ENCLOSURE DETAIL  
N.T.S.

DUMPSTER PLAN  
N.T.S.



DOWN SPOUT UNDER SIDEWALK  
N.T.S.

C:\100-16-002 Citrus Town Sq\DRAWING\7 SITE DETAIL.dwg, 5/6/2016 12:28:12 PM

DES. H.T.M.	NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BOX	DATE	REVISION	BY	CLIENT
DFT. D.M.N.					
CHKD. H.T.M.					
APPD. H.T.M.					

NGA ROBLES  
5605 TPC BLVD.  
LUTZ, FLORIDA 33558-2851

**Civil, Water Resources & Environmental Engineering**  
14031 N. Dale Mabry Highway, Tampa, Florida 33618  
Phone: (813) 962-6230 Fax: (813) 962-6420  
EB #6542

PROJECT: CITRUS TOWN SQUARE  
7721 GUNN HIGHWAY, TAMPA, FLORIDA 33625  
SECTION 02-28S-17E, HILLSBOROUGH COUNTY

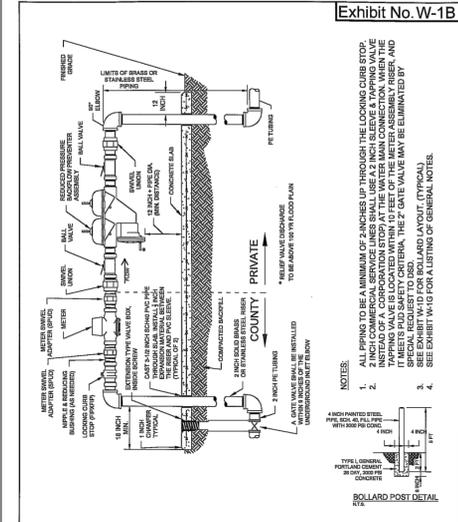
JOB NUMBER	100-16-002	SHEET	7
DATE	JAN. 2016	OF	9

TYPICAL SITE DETAILS

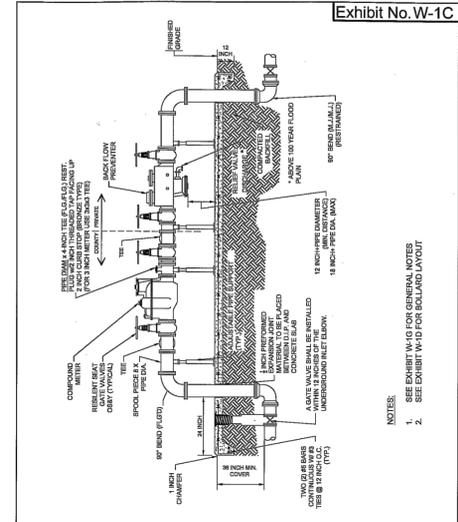
PLA. P.E. NO. 32825

WATER EXHIBITS		Exhibit No.
W-1A	WATER METER ASSEMBLY - COMMERCIAL METERS LESS THAN 1-1/2 INCH	
W-1B	WATER METER ASSEMBLY - COMMERCIAL 1-1/2 INCH & 2 INCH METERS	
W-1C	MASTER WATER METER ASSEMBLY SITE DEVELOPMENT - 3 INCH METER & LARGER (PROFILE VIEW)	
W-1D	MASTER WATER METER ASSEMBLY SITE DEVELOPMENT - 3 INCH METER & LARGER (PLAN VIEW)	
W-1E	MASTER WATER METER ASSEMBLY SITE DEVELOPMENT W/ FIRE FLOW	
W-1F	TEMPORARY CONSTRUCTION WATER METER ASSEMBLY FOR RESIDENTIAL OR COMMERCIAL DEVELOPMENT 1/2 INCH AND LARGER	
W-1G	NOTES WATER METER ASSEMBLIES	
W-2	BACKFLOW PREVENTION DEVICE RPDA (FIRE SERVICE ONLY)	
W-3A	RESIDENTIAL SERVICE LAYOUT	
W-3B	RESIDENTIAL SINGLE METER SERVICE	
W-3C	RESIDENTIAL DUAL METER SINGLE LOT SERVICE	
W-3D	RESIDENTIAL METER SERVICE INSTALLATION (NEAR MAIN)	
W-3E	RESIDENTIAL METER SERVICE INSTALLATION (NEAR SIDE)	
W-3F	RESIDENTIAL METER SERVICE INSTALLATION (FAR SIDE)	
W-3G	RESIDENTIAL DUAL LOT METERED SERVICE (FAR SIDE)	
W-4	POTABLE WATER METER BOX	
W-5A	FIRE HYDRANT (RESTRAINED)	
W-5B	FIRE HYDRANT FOR LIMITED SPACE (RESTRAINED)	
W-5C	WATER MAIN EXTENSION WITH HYDRANT DETAIL	
W-5D	FIRE HYDRANT DETAIL	
W-6A	BLOW-OFF ASSEMBLY	
W-6B	BLOW-OFF ASSEMBLY AND FIRE HYDRANT AT CUL-DE-SAC ROAD UP TO 150 FEET	
W-6C	BLOW-OFF ASSEMBLY AND FIRE HYDRANT AT CUL-DE-SAC ROAD GREATER THAN 150 FEET	
W-7A	RESTRAINED JOINT-STANDARD	
W-7B	RESTRAINED JOINT FOR PVC C-900 PIPE (4 INCH TO 12 INCH)	
W-8A	AUTOMATIC AIR RELIEF VALVE ASSEMBLY-STANDARD	
W-8B	AUTOMATIC AIR RELIEF VALVE ASSEMBLY-OFFSET	
W-8C	AIR RELIEF VALVE-MANUAL	
W-8D	AUTOMATIC AIR RELIEF VALVE ASSEMBLY - OFFSET NEW CONSTRUCTION (LINE OUT OF SERVICE)	
W-9A	VALVE BOX AND MARKER INSTALLATION FOR PAVED AREAS	
W-9B	CONCRETE VALVE PAD (FOR UNPAVED AREAS)	
W-10	CASING DETAILS - JACK AND BORE	
W-11	DITCH BOTTOM CLEARANCE AND CONCRETE PROTECTIVE SLAB	
W-12A	VALVE AND TRACER WIRE (FOR PAVED AND NON-PAVED AREAS)	
W-12B	VALVE EXTENSION FOR GATE VALVES	
W-13	BORING FOR UTILITIES	
W-14	TRENCH DETAILS - BACKFILL & COMPACTION	

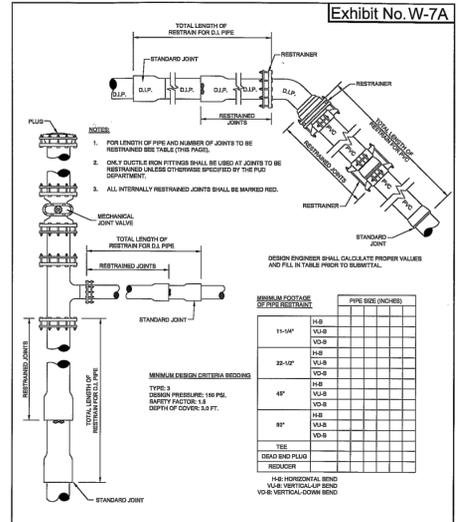
LISTING OF WATER EXHIBITS	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



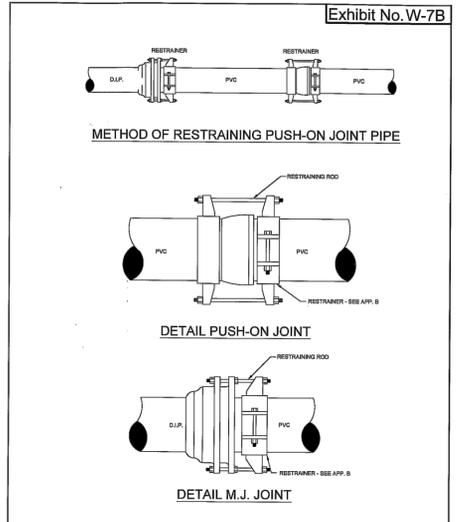
WATER METER ASSEMBLY COMMERCIAL - 1-1/2 INCH & 2 INCH METERS	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



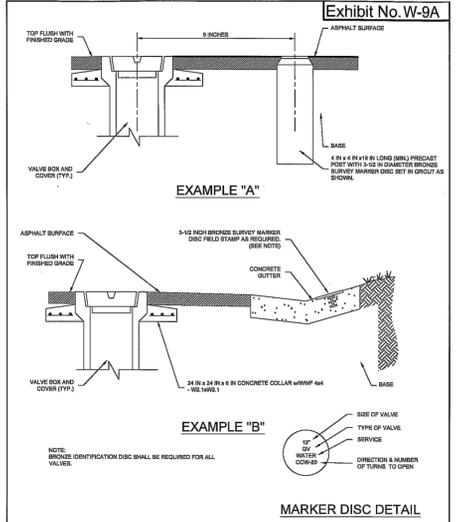
MASTER WATER METER ASSEMBLY SITE DEVELOPMENT - 3" METER & LARGER (PROFILE)	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



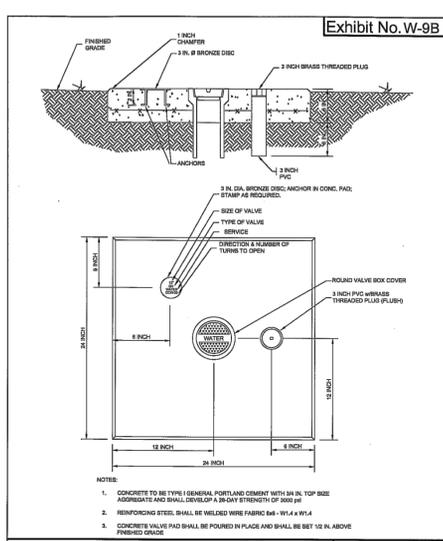
RESTRAINED JOINT-STANDARD	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



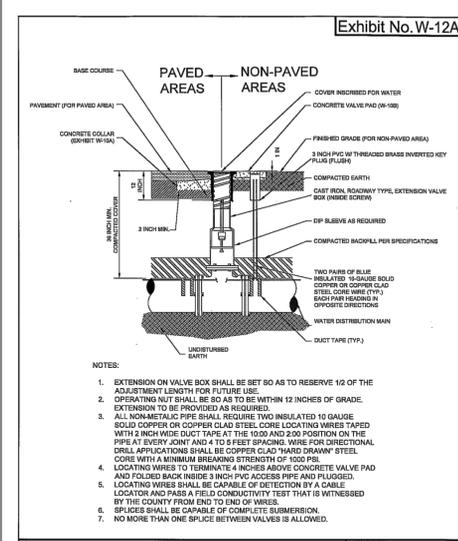
RESTRAINED JOINT FOR PVC C-900 PIPE (4 IN TO 12 IN)	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



VALVE BOX & MARKER INSTALLATION FOR PAVED AREAS	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



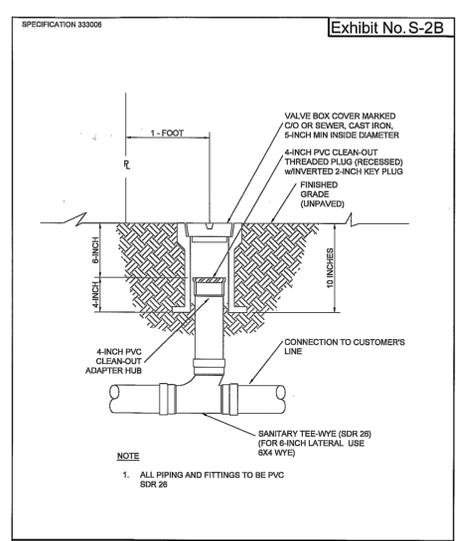
CONCRETE VALVE PAD (FOR UNPAVED AREAS)	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



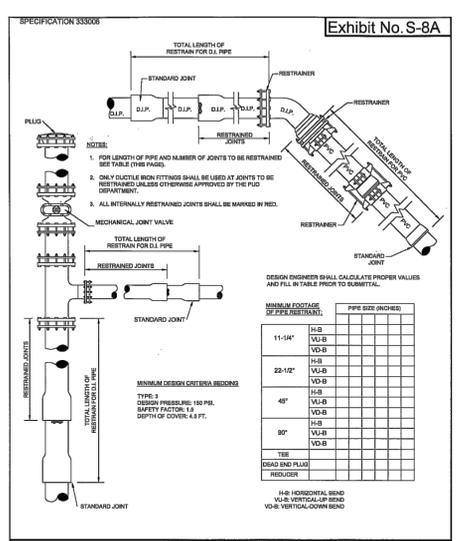
VALVE AND TRACER WIRE PAVED OR NON-PAVED AREAS	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.

SEWER EXHIBITS		Exhibit No.
S-1A	CONFLICT MANHOLE-TYPE "A" WASTEWATER AND STORMWATER PIPES	
S-1B	CONFLICT MANHOLE-TYPE "B" WASTEWATER AND STORMWATER PIPES	
S-2A	TYPICAL PVC SANITARY SEWER NEW CONNECTION w/CLEAN-OUT	
S-2B	CLEAN-OUT DETAIL VALVE BOX COVER	
S-3A	STANDARD 48" PRECAST MANHOLE FOR SEWERS 18" OR LESS IN DIA. (SECTION VIEW)	
S-3B	STANDARD 48" PRECAST MANHOLE FOR SEWERS 18" OR LESS IN DIA. (PLAN VIEW)	
S-3C	STANDARD 80" PRECAST MANHOLE FOR SEWERS 18" DIA OR 18 FT DEEP	
S-3D	STANDARD NOTES PRECAST MANHOLES	
S-4	TYPICAL DROP MANHOLE-OUTSIDE (GRAVITY TO GRAVITY)	
S-5	CASING DETAILS - JACK AND BORE	
S-6	DITCH BOTTOM CLEARANCE AND CONCRETE PROTECTIVE SLAB	
S-7	BORING FOR UTILITIES	
S-8A	RESTRAINED JOINT-STANDARD	
S-8B	RESTRAINED JOINT FOR PVC C-900 PIPE (4" TO 12")	
S-9A	VALVE AND TRACER WIRE (PAVED OR NON-PAVED AREAS)	
S-9B	VALVE EXTENSION FOR PLUG VALVES W/ SHEAR PIN	
S-10	CONCRETE VALVE PAD FOR UNPAVED AREAS	
S-11	VALVE BOX AND MARKER INSTALLATION FOR PAVED AREAS	
S-12A	AUTOMATIC AIR RELEASE VALVE ASSEMBLY - STANDARD	
S-12B	AUTOMATIC AIR RELEASE VALVE ASSEMBLY - OFFSET	
S-12C	AUTOMATIC AIR RELEASE VALVE ASSEMBLY - OFFSET (NOT IN SERVICE)	
S-13A	STANDARD DUPLEX PUMP STATION MINIMUM SITE DIMENSIONS	
S-13B	LOW FLOW GRINDER PUMP STATION MINIMUM SITE DIMENSIONS	
S-14A	TURNDOWN DETAIL LAYOUT "A" (WHEN REQUIRED)	
S-14B	TURNDOWN DETAIL LAYOUT "B" (WHEN REQUIRED)	
S-15	TRENCH DETAIL - BACKFILL AND COMPACTION	

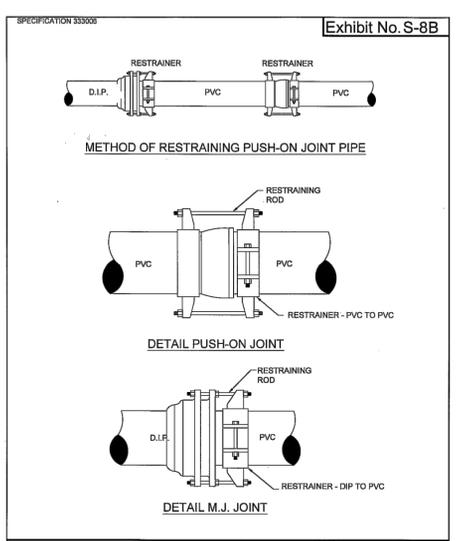
LISTING OF SEWER EXHIBITS	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



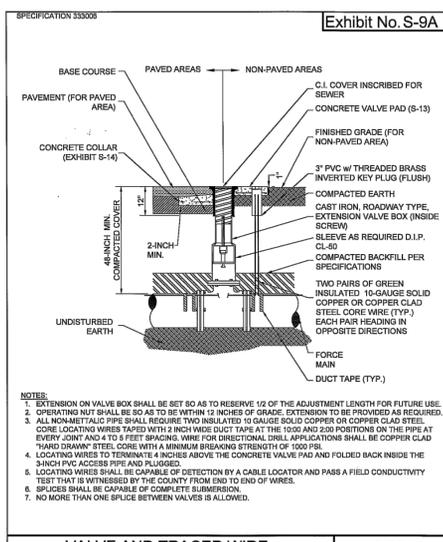
CLEAN-OUT DETAIL WITH VALVE BOX COVER	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



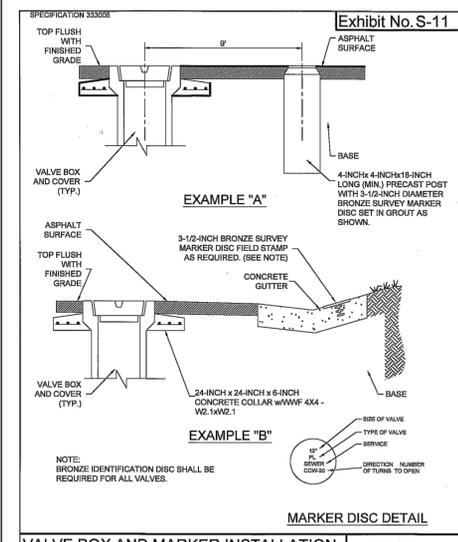
RESTRAINED JOINT-STANDARD	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



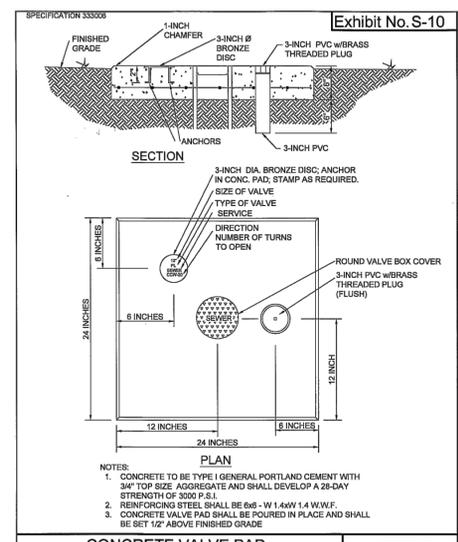
RESTRAINED JOINT FOR PVC C-900 PIPE (4" TO 12")	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



VALVE AND TRACER WIRE PAVED OR NON-PAVED AREAS	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



VALVE BOX AND MARKER INSTALLATION FOR PAVED AREAS	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.



CONCRETE VALVE PAD (FOR UNPAVED AREAS)	10/2015
HILLSBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.

CL100-16-002 Citrus Town Square WATER & WASTE WATER DETAILS.dwg 5/9/2016 2:26:08 PM

DES.	H.T.M.
DRFT.	D.M.N.
CHKD.	H.T.M.
APPD.	H.T.M.

DATE	REVISION	BY	CLIENT

NGA ROBLES  
5605 TPC BLVD.  
LUTZ, FLORIDA 33558-2851

Civil, Water Resources & Environmental Engineering  
H.T.M. Inc. 14031 N. Dale Mabry Highway, Tampa, Florida 33618  
Phone: (813) 962-6230 Fax: (813) 962-6420  
EB #6542

PROJECT	CITRUS TOWN SQUARE 7721 GUNN HIGHWAY, TAMPA, FLORIDA 33625 SECTION 02-28S-17E, HILLSBOROUGH COUNTY	JOB NUMBER	100-16-002	SHEET	8
		DATE	JAN. 2016		9
TYPICAL WATER & WASTEWATER DETAILS					

P.L.A.  
P.E. NO.  
33625

**LEGAL DESCRIPTION:**

LOTS 3, 4, 5, 6, 7, 8, 9 AND 10, BLOCK 50, MAP OF THE TOWN OF CITRUS PARK FLORIDA, ACCORDING TO THE MAP OR PLAT THEREOF, AS RECORDED IN PLAT BOOK 1, PAGE 130, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA; TOGETHER WITH THE VACATED STREET ABUTTING ON THE WEST AND THE VACATED STREET ABUTTING ON THE NORTH AND LESS THE RIGHT-OF-WAY TAKING FOR EHRlich ROAD.

**MAP OF BOUNDARY, TOPOGRAPHIC AND WETLAND SURVEY AND TREES LOCATION SECTION 02, TOWNSHIP 28 SOUTH, RANGE 17 EAST**

**STREET ADDRESS:**  
7721 GUNN HIGHWAY  
TAMPA, FLORIDA 33625

**EPC LINE TABLE**

Line	Bearing	Distance
L1	S.07°44'14"E.	30.50'
L2	S.03°04'56"E.	29.02'
L3	S.45°05'02"E.	24.26'
L4	S.74°03'03"E.	26.68'
L5	N.88°04'49"E.	23.17'
L6	N.67°05'09"E.	17.70'
L7	N.07°33'45"E.	21.66'
L8	N.15°30'04"E.	47.80'
L9	N.53°17'47"E.	10.69'
L10	N.88°56'51"W.	112.18'

**FLOOD ZONE: "X"**  
COMMUNITY PANEL  
No. 120112-0179H  
DATED: 08-28-2008

**ACREAGE'S TABLE**

PARENT TRACT	62498.63 Square Feet	1.43 Acres, ±
PARENT TRACT UPLAND AREA	55462.67 Square Feet	1.27 Acres, ±



- LEGENDS & SYMBOLS**
- AC = AIR CONDITIONER
  - ADS = ADVANCED DRAINAGE SYSTEMS
  - AL = ALUMINUM
  - ASH = ASPHALT
  - BM = BENCH MARK
  - BRWF = BRICK WALL FENCE
  - BWF = BARR WIRE FENCE
  - CB = CATCH BASIN
  - CC = CONC CURB
  - CCR = CERTIFIED CORNER RECORD
  - CE = COVERED ENTRANCE
  - CG = CURB AND GUTTER
  - CI = CURB INLET
  - CLF = CHAIN LINK FENCE
  - CO = CLEANOUT
  - CONC = CONCRETE
  - COR = CORNER
  - CP = CONCRETE POLE
  - CS = CONC STEPS
  - CSW = CONCRETE SIDE WALK
  - CW = CONCRETE WALL
  - CWF = CHICKEN WIRE FENCE
  - DEED = DEED
  - DE = DRAINAGE EASEMENT
  - DISC = DISK
  - ENCL = ENCLOSURE
  - EOW = EDGE OF WATER
  - EP = EDGE OF PAVEMENT
  - FOP = FOUND CAPPED IRON PIPE
  - FOR = FOUND CAPPED IRON ROD
  - FCM = FOUND CONCRETE MONUMENT
  - FDR = FOUND DRILL HOLE
  - FIR = FOUND IRON ROD
  - FLP = FOUND IRON PIPE
  - (FLD) = FIELD
  - FN = FOUND NAIL
  - FND = FOUND
  - FND/D = FOUND NAIL & DISC
  - FPC = FLORIDA POWER CORP
  - FPK = FOUND PK NAIL
  - FPKND = FOUND PKNAIL & DISC
  - FRRS = FOUND RAIL ROAD SPIKE
  - F(X) = FOUND "X" CUT
  - HW = HEADWALL
  - OC = GRANITE CURB
  - ID = IDENTIFICATION
  - LP = LIGHT POLE
  - (M) = MEASURED
  - M/L = METAL
  - O/A = OVERALL
  - ORHP = OVER HEAD POWER
  - OR.BK. = OFFICIAL RECORD BOOK
  - O/S = OFFSET
  - (P) = PLAT
  - PB = PLAT BOOK
  - PC = POINT OF CURVATURE
  - PCED = PINELLAS COUNTY ENGINEERING DEPARTMENT
  - PCP = PERMANENT CONTROL POINT
  - PG = PAGE
  - PI = POINT OF INTERSECTION
  - POB = POINT OF BEGINNING
  - POC = POINT OF COMMENCEMENT
  - POL = POINT ON LINE
  - PP = POWER POLE
  - PRM = PERMANENT REFERENCE MARKER
  - PT = POINT OF TANGENT
  - PVR = PAVERS
  - (REC) = RECORD
  - REF = REFERENCED
  - ROW = RIGHT-OF-WAY
  - SA = SANITARY
  - SEC. TWP. RING = SECTION TOWNSHIP RANGE
  - SCOR 5/8" = SET CAP IRON ROD LB #7101
  - SCR = SCREENED
  - SH = SHED
  - SPKND = SET PK NAIL AND DISC LB. #7101
  - ST = STORM
  - STOP = STRADDLE POINTS
  - (TM) = TAX MAP
  - TOB = TOP OF BANK
  - TOE = BOTTOM OF SLOPE
  - UE = UTILITY EASEMENT
  - W = WOOD
  - WC = WITNESS CORNER
  - WD = WOOD DECK
  - WF = WOOD FENCE
  - WM = WATER METER
  - WPP = WOOD POWER POLE
  - WS = WOOD STEPS
  - V = VINYL
  - VF = VINYL FENCE
  - VG = VALLEY GUTTER

- TREE LEGEND**
- 5 = CITRUS
  - 13 = CYPRESS
  - 22 = DAK
  - 8 = UNKNOWN

C:\100-16-002\_Citrus Town sq\DRAWING\9 EXISTING CONDITIONS.dwg, 5/9/2016 2:24:45 PM

DES. H.T.M. DRFT. D.M.N. CHKD. H.T.M. APPD. H.T.M.	NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BOX	DATE: _____ REVISION: _____ BY: _____ CLIENT: _____	NGA ROBLES 5605 TPC BLVD. LUTZ, FLORIDA 33558-2851	Civil, Water Resources & Environmental Engineering 14031 N. Dale Mabry Highway, Tampa, Florida 33618 Phone: (813) 962-6230 Fax: (813) 962-6420 EB #6542	PROJECT: CITRUS TOWN SQUARE 7721 GUNN HIGHWAY, TAMPA, FLORIDA 33625 SECTION 02-28S-17E, HILLSBOROUGH COUNTY	JOB NUMBER: 100-16-002 DATE: JAN. 2016	SHEET: 9 OF: 9
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EXISTING CONDITIONS