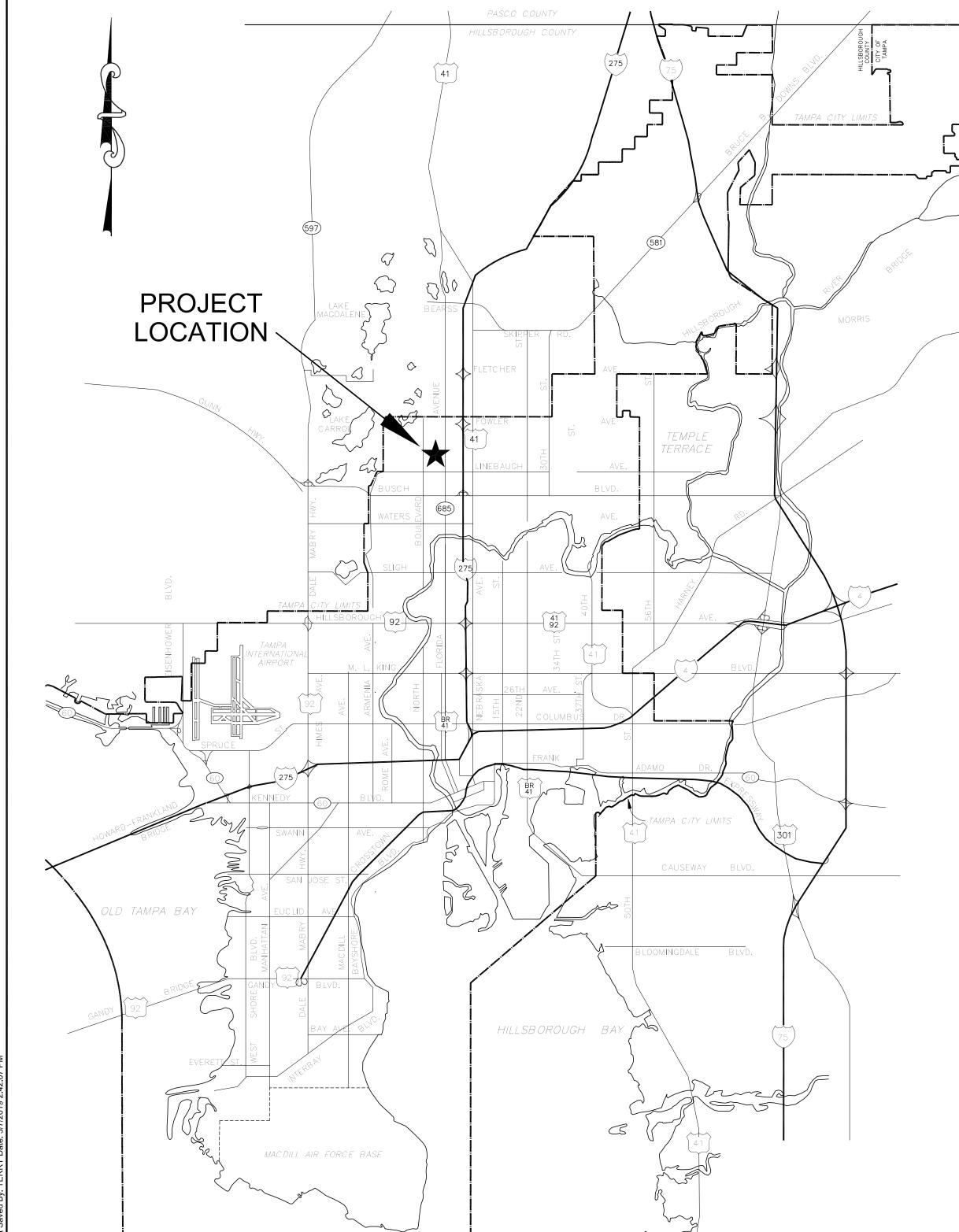
The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:

MailTo:ContractAdministration@TampaGov.net

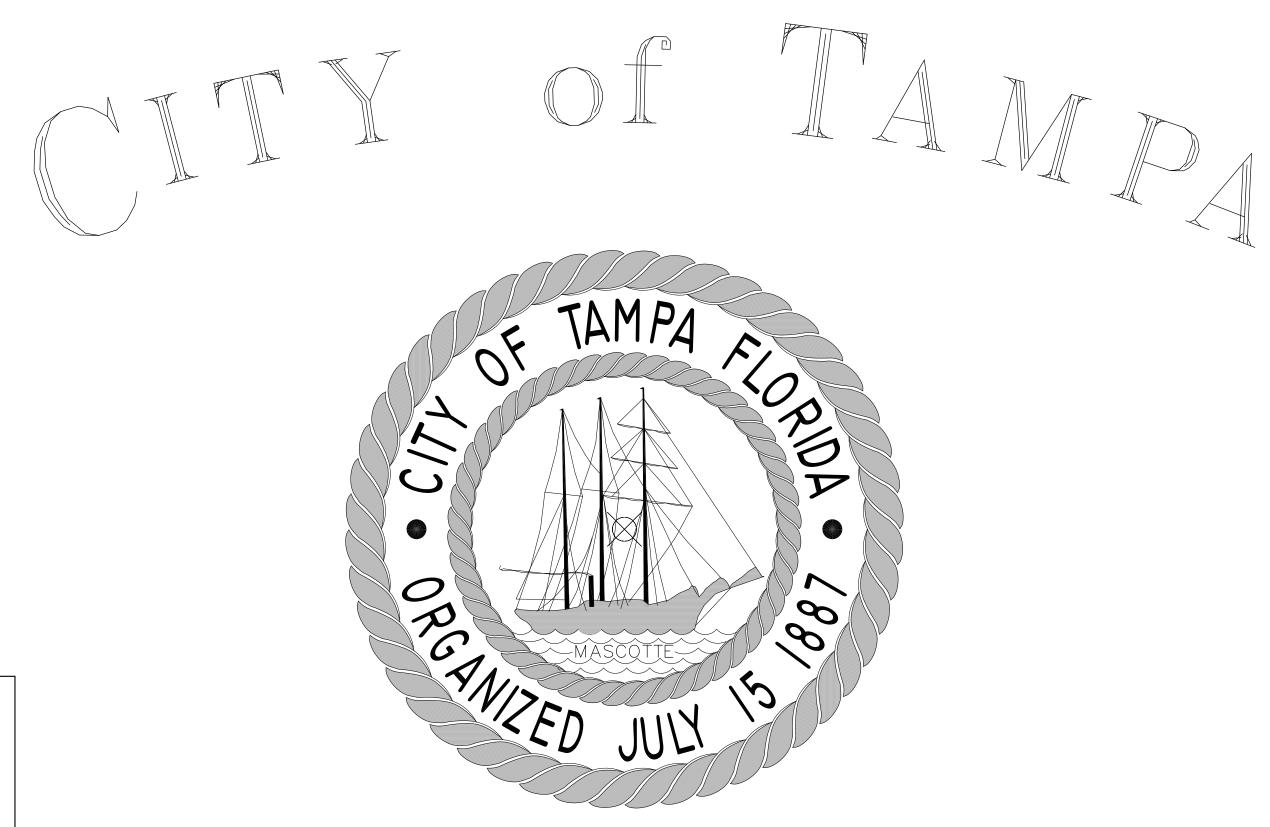
City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456







HEET NO.	TITLE
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3	EXISTING CONDITIONS - OVERALL
C-4	DEMOLITION PLAN - NORTH
C-5	DEMOLITION PLAN - CENTRAL
C-6	DEMOLITION PLAN - SOUTH
C-7	PARK IMPROVEMENT PLAN - OVERALL
C-8	PARK IMPROVEMENT PLAN - NORTH
C-9	PARK IMPROVEMENT PLAN - CENTRAL
C-10	PARK IMPROVEMENT PLAN - SOUTH
C-11	GEOMETRY COORDINATES PLAN - NORTH
C-12	GEOMETRY COORDINATES PLAN - CENTRAL
C-13	GEOMETRY COORDINATES PLAN - SOUTH
C-14	CROSS SECTIONS
C-15	DETAILS
C-16	DETAILS
C-17	DETAILS
C-18	DETAILS NOT IN CONTRACT
C-19	DETAILS
C-20	DETAILS
-C - 21	DETAILS - PERMATRAK NOT IN CONTRACT
C-22	IRRIGATION DETAILS
RACQUETB <i>F</i>	ALL COURT DRAWINGS
CS	COVER SHEET
S-1	STRUCTURAL NOTES
S-2	STRUCTURAL FLOOR PLANS



DEPARTMENT OF TRANSPORTATION AND STORMWATER SERVICES STORMWATER ENGINEERING DIVISION

PLANS FOR

FOREST HILLS PARK CONSTRUCTION PLANS

CONTRACT NO. 19-C-00020

ENGINEER-OF-RECORD

H. DUANE MILFORD P.E. # 42657

 DATE
 REVISIONS
 No.
 DATE
 REVISIONS
 DES: HDM

 6
 DRN: TLD

 5
 CKD: HDM

 DATE: 11 /7 /18

 ${\cal C}_{1}$ of $T_{A}{}_{M}{}_{P_{A}}$ Department of Transportation and Stormwater Services

Stormwater Engineering Division

CIVIL CONSULTANTS, INC

P.O. Box
Odessa, Florida 33556
Phone: 813.731.0052
duane@mphcivil.com
Florida CA No.: 30727

7 SHEET I OF **22**

- 1. THE BASIS FOR THESE PLANS IS THAT "TOPOGRAPHIC SURVEY" PREPARED BY POLARIS ASSOCIATES, INC., JOB NO. 01-4603, DATED 5/20/16, REVISED 12/9/16. DATUM AND BEARIING INFORMTION BELOW IS TAKEN FROM THAT SURVEY.
- 2. ELEVATIONS ARE IN FEET AND BASED ON NAVD-88 DATUM. REFERENCE BENCHMARK IS CITY OF TAMPA BENCHMARK NUMBER HV-02 0156, ELEVATION = 34.716' AND HV-02
- 0151, ELEVATION = 31.858. 3. BEARINGS ARE BASED ON A BEARING OF N 89°59'57"E HELD ALONG THE NORTHERLY LINE OF THE FIRST ADDITION TO SENECA SUBDIVISION, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 34, PAGE 93 IN THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.
- 4. PROPERTY APPEARS TO BE LOCATED IN FLOOD ZONES "X" AND "AE"(31.7) PER F.I.R.M. NO. 12057C 0212H DATED 8-28-08.
- 5. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST CONTACT SUNSHINE811.COM AND VERIFY THE LOCATIONS OF ALL EXISTING BURIED UTILITIES WITHIN THE WORK AREA. ANY CONFLICTS WITH PROPOSED CONSTRUCTION SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 6. EXISTING UTILITIES SHOWN ARE APPROXIMATE AND MUST BE VERIFIED AS STATED
- 7. PRIOR TO CONSTRUCTION OR DEMOLITION, THE CONTRACTOR SHALL SCHEDULE A SITE PRE-CONSTRUCTION MEETING WITH ALL APPLICABLE PUBLIC AND PRIVATE UTILITY COMPANIES, AS WELL AS THE OWNER, ENGINEER, THE SURVEYOR PROVIDING AS-
- BUILTS, AND THE CONSTRUCTION MATERIAL TESTING COMPANY. 8. NO CONSTRUCTION OPERATIONS OR EQUIPMENT STORAGE IS TO OCCUR WITHIN THE PROTECTED RADIUS OF EXISTING TREES TO REMAIN UNLESS SPECIFICALLY ALLOWED BY
- 9. ALL CONSTRUCTION MUST COMPLY WITH CITY OF TAMPA AND FDOT STANDARDS AS APPLICABLE
- 10. UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS, COORDINATION OF ALL
- REQUIRED TESTS AND INSPECTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. 11. UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS, CONSTRUCTION MATERIAL TESTING SHALL BE PAID FOR BY THE CONTRACTOR AND PROVIDED TO THE OWNER AND MPH CIVIL CONSULTANTS, WITH ALL TEST RESULTS CERTIFIED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER.
- 12. ALL UTILITY WORK PERFORMED WITHIN THE CITY RIGHT-OF-WAY SHALL BE PERMITTED THROUGH THE TRANSPORTATION DIVISION. APPLICATIONS, PLANS, AND CERTIFICATES OF INSURANCE WILL BE EMAILED TO <u>RIGHTOFWAYPERMITS@TAMPAGOV.NET</u>; AND THE CITY RIGHT-OF-WAY PERMITTING STAFF WILL BE CONTACTED AT 813-274-8333. 13. THE CONTRACTOR SHALL KEEP RECORD DRAWINGS OF ALL WORK COMPLETED,
- PHOTOGRAPHS OF ALL BURIED UTILITIES WHILE TRENCHES ARE STILL OPEN, AND SUBMIT COPIES OF ALL RECORD DRAWINGS AND PHOTOGRAPHS TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
- 14. PRIOR TO FINAL ACCEPTANCE, HORIZONTAL AND VERTICAL AS-BUILTS OF ALL IMPROVEMENTS PROPOSED BY THESE DRAWINGS, CERTIFIED BY A FLORIDA LICENSED SURVEYOR AND MAPPER, SHALL BE PROVIDED TO THE ENGINEER. UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS, SAID AS-BUILTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

EROSION CONTROL AND EARTHWORK NOTES:

- 1. SILT SCREEN SHALL BE TRENCHED-IN 6 INCHES BELOW EXISTING GRADE EXCEPT WHERE CROSSING ROOTS OF PROTECTED TREES.
- 2. FINISH GRADE OF ALL SURFACES, WHETHER PAVED, SODDED, OR MULCHED SHALL BE COORDINATED SO THAT DOWNGRADIENT SURFACES DO NOT BLOCK OR POOL WATER ON UPGRADIENT SURFACES.
- 3. PRIOR TO GRADING FOR THE PROPOSED TRAIL, THE CONTRACTOR SHALL SET GRADE STAKES ALONG THE TRAIL AT 100 FOOT INTERVALS AS WELL AS CRITICAL POINTS ALONG THE TRAIL. THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER AND SCHEDULE A "WALK-THRU" TO REVIEW AND POSSIBLY ADJUST TRAIL GRADES TO MINIMIZE IMPACT ON SURROUNDING GRADES AND TREES. SUCH ADJUSTMENTS WILL BE CONSIDERED A PART OF THE BID ITEM AND COST ASSOCIATED WITH THE TRAIL.
- 4. EARTHWORK SHALL BE COMPLETED IN ACCORDANCE WITH "REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING SERVICES", DATED APRIL 11, 2016, BY
- 5. ALL DISTURBED AREAS WILL BE SODDED WITH BAHIA SOD UNLESS NOTED OTHERWISE IN THE LANDSCAPE PLAN. POND BOTTOM AREA SHALL BE HYDROSEEDED WITH BAHIA

STORM DRAINAGE NOTES:

- 1. PRIOR TO CASTING STRUCTURES, THE CONTRACTOR SHALL PROVIDE ONE SET OF SHOP DRAWINGS VIA PDF TO THE ENGINEER AT <u>DUANE@MPHCIVIL.COM</u>.
- 2. STORM STRUCTURES SHALL MEET THE APPLICABLE FDOT STANDARDS UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
- 3. STORM PIPE MATERIAL SHALL BE AS SHOWN ON THESE PLANS. UNLESS OTHERWISE NOTED, RCP SHALL BE CLASS III. THE CONTRACTOR MAY PROPOSE SUBSTITUTES TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION BUT SUBSTITUTIES MAY NOT BE USED WITHOUT APPROVAL RECEIVED IN WRITING FROM THE ENGINEER AND OR
- 4. PIPE LENGTHS SHOWN ON THE PLANS ARE GENERALLY TO THE CENTER OF THE STRUCTURES AND ARE NOT INTENDED TO REPRESENT EXACT LENGTHS TO BE INSTALLED. THE CONTRACTOR MUST CALCULATE ACTUAL PIPE LENGTHS BASED ON STRUCTURE LOCATION.

PAVING, SIGNAGE, AND STRIPING NOTES:

- 1. ALL PAVING SHALL MEET CITY OF TAMPA AND FDOT STANDARDS.
- 2. PAVEMENT MARKINGS AND TRAFFIC SIGNAGE SHALL GENERALLY CONFORM TO MUTCD 3. PARKING SPACES, EXCEPT IN GRASS PARKING AREAS, SHALL BE DELINEATED WITH 6
- INCH WHITE STRIPES. STOP BARS SHALL BE 24 INCHES WIDE AND SHALL EXTEND THE FULL WIDTH OF THE LANE SUBJECT TO THE STOP CONDITION. 4. HANDICAP PARKING SHALL BE STRIPED AND SIGNED IN ACCORDANCE WITH THE
- DETAILS WITHIN THESE PLANS. —
- 5. UNLESS OTHERWISE INDICATED, ALL SIGNS SHALL BE MOUNTED SUCH THAT THE BOTTOM EDGE IS 7 FEET ABOVE FINISHED GRADE.
- 6. WHERE POSSIBLE, 2 FEET OF HORIZONTAL CLEARANCE SHALL BE PROVIDED BETWEEN SIGNS AND PAVEMENT OR WALKWAY EDGES.

- WATER SYSTEM NOTES: 1. ALL WATER MATERIALS AND INSTALLATION PRACTICES SHALL MEET CITY OF TAMPA
- WATER DEPARTMENT (TWD) REQUIREMENTS. 2. ON SITE DOMESTIC WATER-PIPE SHALL BE PVC, SDR 21 OR BETTER.
- 3. DOMESTIC WATER PIPE BETWEEN FAR AND METER SHALL BE HDPE SDR 09. 4. THS PROJECT MAY REQUIRE CLEARANCE FROM THE HILLSBOROUGH COUNTY HEALTH DEPARTMENT. INSPECTIONS, TESTING, AND AS-BUILTS FOR THE WATER SYSTEMS

SHOULD BE COMPLETED APPROXIMATE ONE MONTH PRIOR TO SUBSTANTIAL

COMPLETION. THIS PROCESS SHOULD BE CLOSELY COORDINATED WITH THE ENGINEER

RIGHT OF WAY CONSTRUCTION NOTES:

AND TAMPA WATER DEPARTMENT PERSONNEL.

- 1. ALL EROSION AND SEDIMENT CONTROL WITHIN R/W SHALL CONFORM TO FDOT INDEX
- 2. SIDEWALKS AND RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX 304 AND 310, AND IN ACCORDANCE WITH ADA STANDARDS.
- 3. TURNOUTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX 515. 4. ALL DISTURBED PORTIONS OF THE RIGHT-OF-WAY NOT OTHERWISE TO BE PAVED SHALL BE FINISHED WITH BAHIA SOD
- 5. ANY SIDEWALK DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE NEAREST JOINT. 6. SAWCUT EXISTING ASPHALT ALONG PAVEMENT EDGE PRIOR TO THE CURB/DRIVEWAY
- 7. ALL MAINTENANCE OF TRAFFIC SHALL CONFORM TO FDOT INDEX SERIES 600, AS APPLICABLE. LANE CLOSURES MUST BE SPECIFICALLY AUTHORIZED BY THE CITY OF
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING ROADWAY, CURBS, GUTTERS, SIDEWALKS, DRAINAGE SYSTEM, AND UTILITIES AS A DIRECT RESULT OF CONSTRUCTION. ROAD IMPROVEMENTS SUCH AS BUT NOT LIMITED
- TO RESURFACING MAY BE REQUIRED. 9. THE SITE DRAINAGE AND CONSTRUCTION IMPROVEMENTS SHALL NOT ADVERSELY IMPACT ADJOINING PROPERTIES AND/OR ROADWAYS.

DEMOLITION NOTES:

- 1. THE CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR THE DEMOLITION AND
- REMOVAL OF THE EXISTING IMPROVEMENTS AS SHOWN ON THIS PLAN. 2. PRIOR TO ANY WORK BEING DONE, THE CONTRACTOR SHALL CALL 811
- (SUNSHINE811.COM) TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES. 3. THE CONTRACTOR SHALL REVIEW THE EXISTING IMPROVEMENTS WITH THE OWNER TO DETERMINE ANY IMPROVEMENTS THAT MAY NEED TO BE LEFT IN PLACE, EITHER TEMPORARILY OR PERMANENTLY; OR ANY IMPROVEMENTS TO BE REMOVED THAT MUST
- BECOME THE PROPERTY OF THE OWNER. 4. TREE BARRICADES AND/OR SILT SCREEN WILL BE INSTALLED PRIOR TO ANY DEMOLITION ACTIVITIES AND WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 5. TREE BARRICADES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE DETAILS SHOWN WITHIN THE PROJECT PLANS. ADJUSTMENTS TO LOCATIONS MAY ONLY BE MADE TO ACCOMMODATE IMPROVEMENTS SPECIFICALLY APPROVED AS PART OF THESE
- 6. THE CONTRACTOR SHALL DESIGNATE A MAXIMUM OF 2 LOCATION(S), TO BE APPROVED BY THE OWNER, FOR CONSTRUCTION INGRESS AND EGRESS AND SHALL MAINTAIN SUCH LOCATIONS IN ACCORANCE WITH ALL APPLICABLE PERMITS AND REGULATIONS. PERIMETER SILT SCREEN MAY BE OMITTED ONLY AT THESE LOCATIONS BUT ONLY FOR THE MINIMUM WIDTH NECESSARY FOR INGRESS AND EGRESS. SOIL TRACKING PREVENTION DEVICES MUST BE USED AT THESE LOCATIONS, AND MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL", LATEST EDITION. THESE LOCATIONS MAY BE RELOCATED FOR THE VARIOUS STAGES OF THE PROJECT, BUT ALL LOCATIONS MUST BE APPROVED BY THE OWNER.
- 7. ADJACENT PROPERTIES, RIGHTS-OF-WAY, AND STREETS SHALL BE KEPT CLEAR OF DEBRIS AND SEDIMENT. ANY SUCH DEBRIS OR SEDIMENT SHALL BE REMOVED AT ONCE. 8. ALL ABANDONED DRIVEWAYS WILL BE REMOVED AND PUBLIC RIGHT-OF-WAY RESTORED
- TO CITY OF TAMPA AND/OR FDOT STANDARDS AND SPECIFICATIONS. 9. UNLESS DESIGNATED FOR RELOCATION OR PROTECTION, ALL EXISTING TREES AND VEGETATION WITH THE PROJECT LIMITS SHALL BE REMOVED, INCLUDING ROOT SYSTEMS. EXCEPT IN AREAS OF EXCAVATION, ROOT AREAS SHALL BE BACKFILLED WITH CLEAN FINE
- SAND WITH NOT LESS THAN 15% PASSING THE NO. 200 SIEVE, 9 TO 12 INCH LIFTS, AND COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. 10. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION, INCLUDING REMOVAL OF VEGETATION AND GRADING, AS SHOWN ON THE DEMOLITION PLANS, WITH ALL PROPOSED
- 11. ANY SIDEWALK TO BE REMOVED SHALL BE REMOVED TO THE NEAREST CONTROL JOINT.

CONSTRUCTION SURFACE WATER POLLUTION PREVENTION NOTES:

CONSTRUCTION AS SHOWN ON THE APPLICABLE PLAN SHEETS. DEMOLITION SHALL BE

ADJUSTED AS NECESSARY TO ACCOMMODATE CONSTRUCTION AS SHOWN ON THOSE

IRRIGATION SPECIFICATIONS / REQUIREMENTS:

CONSTRUCTION SHALL BE AS FOLLOWS:

FROM PANEL TO WELL.

CONTRACTOR.

• THE IRRIGATION SOURCE SHALL BE A WELL THAT SHALL BE INSTALLED BY THE CITY OF TAMPA ABOUT 60

35 PSI TO THE IRRIGATION SYSTEM. THE CONTRACTOR'S RESPONSIBILITY REGARDING WELL

IRRIGATION PIPING FROM WELL TO NEW IRRIGATION SYSTEMS

CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR PERMIT FEES. THE SYSTEM SHALL BE APPROPRIATELY ZONED AND SHALL COVER:

OF THE FILL FOR THE FIELD ALONG THE WEST.

O COORDINATION WITH CITY PARKS & RECREATION DEPT. STAFF AND THE CITY'S WELL

THE CONTRACTOR SHALL PROVIDE ENGINEERED PLANS FOR THE COMPLETE UNDERGROUND IRRIGATION

APPROVAL. AFTER CITY PARKS & RECREATION DEPARTMENT APPROVAL, THE CONTRACTOR SHALL

SYSTEM AND SUBMIT SAME TO CITY OF TAMPA PARKS AND RECREATION DEPARTMENT FOR REVIEW AND

SUBMIT SAME TO THE CITY OF TAMPA CONSTRUCTION SERVICES DIVISION FOR PERMITTING PRIOR TO

THE MULTI-PURPOSE FIELD FROM THE EDGE OF THE FUTURE TRAIL ALONG THE NORTH AND

 IN ADDITION, THE EXISTING IRRIGATION SYSTEM AROUND THE BUILDING AND THE EXISTING PARKING LOT SHALL BE MODIFIED AS NECESSARY SUCH THAT THE SYSTEM IS FED FROM THE

NORTHWEST CORNER OF THE PARK. COORDINATE LOCATION WITH THE CITY PARKS & RECREATION DEPT.

ADVERSELY AFFECTED BY A MALFUNCTIONING IRRIGATION SYSTEM. ALL MANUFACTURER'S LITERATURE

THE IRRIGATION CONTROLLER SHALL BE INSTALLED AT THE COMMUNITY CENTER BUILDING AT THE

 THE CONTRACTOR SHALL WARRANT THE ENTIRE SYSTEM FOR A MINIMUM OF 1-YEAR AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP. THIS WARRANTY SHALL EXTEND TO ANY VEGETATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMING OF LANDSCAPE MATERIAL INSTALLATION

AND OPERATION OF THE IRRIGATION SYSTEM. ANY LANDSCAPE MATERIAL INSTALLED PRIOR TO THE

FOR SUFFICIENTLY WATERING ALL OTHER INSTALLED LANDSCAPE MATERIALS, PRIMARILY MEANING NEW

TREES. THIS RESPONSIBILITY SHALL EXTEND TO SUBSTANTIAL COMPLETION, OR 3 MONTHS AFTER

OPERATION OF THE IRRIGATION SYSTEM SHALL REQUIRE THAT THE CONTRACTOR PROVIDE OTHER

IN ADDITION TO THE UNDERGROUND IRRIGATION SYSTEM, THE CONTRACTOR SHALL BE RESPONSIBLE

INSTALLATION OF LANDSCAPE MATERIALS, WHICHEVER OCCURS LAST. COORDINATE TYPE OF

PERTAINING TO ADDITIONAL WARRANTIES SHALL BE PROVIDED TO THE OWNER.

TEMPORARY MEANS OF KEEPING THE MATERIALS SUFFICIENTLY WATERED

SUPPLEMENTAL TREE WATERING WITH CITY PARKS & RECREATION DEPT.

EAST, THE EDGE OF THE FUTURE GRASSED PARKING TO THE SOUTH, AND THE TOE OF THE SLOPE

NEW WELL. THE CONTRACTOR SHALL DISCONNECT THE EXISTING IRRIGATION SYSTEM FROM

FEET NORTHEAST OF THE NEW PICKLEBALL COURTS. THE WELL WILL SUPPLY NO LESS THAN 50 GPM AT

COMPLETE GRADING IN THE AREA OF THE PROPOSED WELL AND SCHEDULE WELL DRILLING

PRIOR TO THE INSTALLATION OF SOD. ALLOW ABOUT ONE WEEK IN SCHEDULE FOR WELL

O PROVIDE 60 AMP DOUBLE-PULL BREAKER IN PANEL AT COURTS AND TWO #6 WIRES (SLEEVED)

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE REQUIREMENTS OF THE FDEP. THE CONTRACTOR SHALL CONSULT WITH THE FDEP'S GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, DEP DOCUMENT 62-621.300(4)(a) TO
- VERIFY THAT ALL REQUIREMENTS ARE BEING MET. 2. THE SWPPP SHALL BE COMPLETED PRIOR TO SUBMITTAL OF THE NOTICE OF INTENT WHICH SHALL PRECEED ALL CONSTRUCTION ACTIVITIES.
- 3. THE SWPPP SHALL BE AMENDED IF IT BECOMES INEFFECTIVE OR IF ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION.
- 4. THE SWPPP SHALL INCLUDE A SITE MAP WITH, AT A MINIMUM, THE FOLLOWING: DRAINAGE PATTERNS,
 - APPROXIMATE SLOPES AFTER MAJOR GRADING ACTIVITIES,
 - AREAS OF SOIL DISTURBANCE,
 - OUTLINE OF ALL AREAS THAT ARE NOT TO BE DISTURBED,
 - LOCATION OF ALL MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS,
 - THE LOCATION OF EXPECTED STABILIZATION PRACTICES, WETLANDS AND SURFACE WATERS, AND
 - LOCATIONS WHERE STORMWATER MAY DISCHARGE TO A SURFACE WATER OR
- 5. THE SWPPP SHALL ALSO INCLUDE:
 - SITE AND PROJECT DESCRIPTION,
 - DETAILED DESCRIPTION OF ALL SURFACE WATER CONTROLS,
 - DESCRIPTION OF TEMPORARY AND PERMANENT STABILIZATION PRACTICES, DESCRIPTION OF PERMANENT STORMWATER MANAGEMENT CONTROLS TO BE
 - INSTALLED DURING THE CONSTRUCTION PROCESS,
 - DESCRIPTION OF WASTE DISPOSAL CONTROLS, CONTROLS FOR OFFSITE VEHICLE TRACKING FROM CONSTRUCTION SITE EXITS,
 - DESCRIPTION OF THE STORAGE, APPLICATION, GENERATION, AND MIGRATION OF ALL TOXIC SUBSTANCES,
 - DETAILED MAINTENACE PLAN FOR ALL OF THE ABOVE,
 - INSPECTION AND INSPECTION DOCUMENTATION PROCEDURES, AND DESCRIPTION OF ALL SOURCES OF NON-STORMWATER DISCHARGES AS
- ALLOWED IN PART IV.A.3. 6. THE SWPPP MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITH THE SWPPP, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT EACH MEASURE. THE FOLLOWING CERTIFICATION MUST BE INCLUDED IN THE SWPPP AND MUST BE SIGNED BY ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP: "I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY
- STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER." 7. SPECIAL SWPPP NOTE FOR FOREST HILLS PARK: SINCE THE OUTFALL FOR THIS PROJECT AREA IS VIA PUMPING, THE CONTRACTOR'S SWPPP SHALL INCLUDE MEASURES TO CONTROL TURBIDITY AT THE PUMP INTAKE. THE CONTRACTOR SHALL ASSUME THAT

WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR

PUMPING SHALL BE INITIATED BY THE CITY OF TAMPA ANYTIME RAINFALL (FORECASTED OR ACTUAL) EXCEEDS 4-INCHES IN A 24-HOUR PERIOD.

SPECIFICATIONS INCORPORATED BY REFERENCE:

- FLORIDA DEPT. OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE
- CONSTRUCTION, LATEST EDITION, UNLESS OTHERWISE STATED WITHIN THESE PLANS. FLORIDA DEPT. OF TRANSPORTATION DESIGN STANDARDS, LATEST EDITION, UNLESS
- OTHERWISE STATED WITHIN THESE PLANS. CITY OF TAMPA LAND DEVELOPMENT CODE.
- CITY OF TAMPA WATER DEPT. TECHNICAL MANUAL, LATEST EDITION.

SHELTER SPECIFICATIONS / REQUIREMENTS:

- THE CONTRACTOR SHALL PROVIDE ENGINEERED PLANS AND SUBMIT SAME TO CITY OF TAMPA FOR PERMITTING PRIOR TO CONSTRUCTION. CONTRACTOR RESPONSISBLE FOR
- MODEL: SQR 20, OR APPROVED EQUAL WITH EQUAL WARRANTY. CONCRETE SLAB AND FOOTINGS PER MANUFACTURER'S RECOMMENDATIONS
- COLUMNS: (4) 8" ROUND AT EACH SHELTER. ROOF STYLE: MULTI RIB METAL WITH 6.0/12-SLOPE.
- ELECTRICAL OUTLETS: QTY = 2 AT LOCATIONS SELECTED BY OWNER (AT EACH SHELTER).
- NO EXPOSED BOLTS ALLOWED ON FRAME CONSTRUCTION. PROVIDE 'POLI-5000' POWDER COAT PAINT FINISH; OWNER TO SELECT COLOR FROM
- STANDARD COLOR ALTERNATES PRIOR TO CONTRACTOR ORDERING. THE ABOVE REQUIREMENTS ARE GENERALLY FOR SHELTERS S-1 AND S-2. AS APPLICABLE, THE SAME REQUIREMENTS ARE TO APPLY TO S-3.

- **LIGHTING SPECIFICATIONS / REQUIREMENTS:** THE CONTRACTOR SHALL PROVIDE ENGINEERED PLANS AND SUBMIT SAME TO CITY OF TAMPA
- FOR PERMITTING PRIOR TO CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR PERMIT FEES. • LIGHTING SHALL BE AS MANUFACTURED BY MUSCO SPORTS LIGHTING, OR APPROVED EQUAL, WITH WARRANTY REQUIREMENTS
- THESE PLANS INCLUDE 4 LIGHT POLES AT THE FIELD AND 7 LIGHT POLES AROUND COURTS OF VARYING TYPES. ACTUAL NUMBERS AND LOCATIONS MAY VARY, BUT MUST BE APPROVED BY THE CITY OF TAMPA.
- THE CONTRACTOR IS REFERRED TO THE SPECIFICATIONS INCLUDED WITH THESE CONTRACT DOCUMENTS FOR THE SPECIFIC LIGHTING REQUIREMENTS.

STORMWATER SYSTEM MAINTENANCE REQUIREMENTS:

- 1. THE OWNER (CITY OF TAMPA) WILL BE RESPONSIBLE FOR THE ON-GOING MAINTENANCE OF THE STORMWATER SYSTEM IN ACCORDANCE WITH THE APPROVED PLANS AND THE APPLICABLE PERMIT CONDITIONS
- 2. THE SYSTEM CONSISTS OF SEVERAL PARTS WHICH SHALL BE MAINTAINED AS FOLLOWS: RETENTION POND – THE TOP OF BANK, BANKS, AND BOTTOM (WHEN DRY) SHALL BE MOWED ON A REGULAR INTERVAL. ANY ACCUMULATED DEBRIS SHALL
- PUMP DISCHARGE STRUCTURE THE EXISTING DISCHARGE STRUCTURE AT THE SOUTH END OF THE PROJECT SHALL BE KEPT CLEAN AND FREE OF EXCESSIVE SEDIMENT AND DEBRIS. VEGETATION, OTHER THAN MAINTAINED GRASS, SHALL BE KEPT A MINIMUM DISTANCE OF 15 FEET FROM THE STRUCTURE. THE STRUCTURE SHALL BE KEPT IN GOOD WORKING CONDITION IN ACCORDANCE WITH THE APPROVED PLANS AND PERMITS.
- PIPES AND INLETS PIPES AND INLETS SHALL BE KEPT CLEAN AND FREE OF **EXCESSIVE SEDIMENT AND DEBRIS**
- PARKING AREAS PARKING AREAS SHALL BE KEPT CLEAN AND FREE OF

PERMITS SHALL BE REVIEWED REGULARLY TO INSURE COMPLIANCE.

- EXCESSIVE SEDIMENT AND DEBRIS. WETLAND AREA - MOWING SHALL NOT OCCUR IN THE WETLAND AREA AS SHOWN ON THESE PLANS AND AS PROTECTED BY PLANTED BUFFER VEGETATION. ANY MAINTENANCE IN THIS AREA SHALL BE IN STRICT
- CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. 3. OTHER THAN MOWING AND DEBRIS REMOVAL, OTHER MAINTENANCE ACTIVITIES
- SHALL OCCUR ON A MONTHLY BASIS AND AFTER LARGE STORM EVENTS. 4. THE SYSTEM PERMITS MAY INCLUDE ADDITIONAL MAINTENANCE REQUIREMENTS. THE

- 1. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES TO PRUNE EXISTING TREES WITH BRANCHES THAT EXTEND WITHIN 15' OF PROPOSED MULTIPURPOSE TRAIL. THE SCOPE INCLUDES, BUT IS NOT LIMITED TO, MOBILIZATION, ALL CUTTING, REMOVAL, LOADING, HAULING AND DISPOSAL OF DEBRIS, BARRICADING, TRAFFIC CONTROL, CLEAN-UP, RESTORATION, AND ALL OTHER APPURTENANT WORK COMPLETE IN PLACE. ALL PRUNING SHALL BE DONE IN ACCORDANCE WITH ANSI A300 STANDARDS AND BEST MANAGEMENT PRACTICES – TREE PRUNING BY INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) FOR THE PURPOSE OF CROWN RAISING AND CROWN CLEANING ("DEADWOODING"). WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED, CERTIFIED ARBORIST – A CURRENT COPY OF CERTIFICATION SHALL BE SUBMITTED PRIOR TO BEGINNING OF WORK.
- 2. PERMITS FOR TREE PRUNING FOR TRAIL INSTALLATION ON THIS PROJECT ARE EXEMPTED PER

PRE-APPROVAL BY THE PARKS & RECREATION URBAN FORESTRY MANAGER

- 3. CROWN CLEANING SHALL REMOVE ALL DEAD, DISEASED, DETACHED, AND BROKEN BRANCHES AND STUBS GREATER THAN ONE INCH (1") IN DIAMETER. CROWN RAISING SHALL REMOVE LOWER BRANCHES WHERE PRACTICAL TO OBTAIN AN EVENTUAL FULL FOLIAGE HEIGHT CLEARANCE OF TWELVE (12) FEET OVER THE PEDESTRIAN TRAIL. ALL WORK SHALL ALWAYS MAINTAIN THE CROWN SHAPE AND SYMMETRY TYPICAL OF THE SPECIES BEING PRUNED AT ITS GIVEN SIZE AND AGE, AND SHALL BALANCE THE TREE EVENLY. PRUNING MAY INCLUDE REDUCTION CUTS TO SHORTEN LOWER LIMBS, OR THINNING CUTS TO LIGHTEN LOWER BRANCH LOADS TO ACHIEVE CLEARANCE IF COMPLETE BRANCH REMOVAL FROM THE TREE TRUNK IS NOT PRACTICAL.
- 4. ALL FINAL CUTS SHALL BE "COLLAR CUTS" MADE SUFFICIENTLY CLOSE TO THE TRUNK OR PARENT LIMB, WITHOUT CUTTING INTO THE BRANCH COLLAR OR LEAVING A PROTRUDING STUB SO THAT CLOSURE CAN READILY BEGIN UNDER NORMAL CONDITIONS. THE FACE OF THE "COLLAR CUT" OR WOUND AREA SHALL BE CIRCULAR IN FORM. "FLUSH" CUTS TO THE MAIN STEM BEHIND THE BRANCH COLLAR THAT LEAVE OVAL EXPOSED WOUNDS ARE PROHIBITED AND SHALL NOT BE MADE. CUTS SHALL BE MADE SUCH THAT ALL WOUND SIDES ARE EVEN EDGED AND DO NOT LEAVE "DOG EAR" RIDGES ON ONE SIDE OR ANOTHER. CLEAN CUTS SHALL BE MADE AT ALL TIMES WITHOUT LEAVING ANY STUBS.
- 5. ALL LIMBS TO BE REMOVED SHALL BE CUT IN SUCH A MATTER AS TO PREVENT ANY RIPPING OR TEARING OF THE WOOD OR BARK ON THE PARENT OR REMAINING STEM. LARGE LIMBS SHALL BE CUT USING THE THREE-CUT PRUNING METHOD. ALL LIMBS SHALL BE BROUGHT TO THE GROUND IN SUCH A MANNER AS TO PREVENT ANY DAMAGE TO REAL OR PERSONAL PROPERTY, PUBLICLY OR PRIVATELY OWNED.
- 6. PROPER TOOLS FOR PRUNING SHALL BE USED FOR EACH CUT. ALL TOOLS SHALL BE STERILIZED PRIOR TO BEGINNING WORK ON EACH TREE SERVICED AS REFERENCED BY INDUSTRY STANDARDS AND THE INSTITUTE OF FLORIDA AGRICULTURAL SERVICES (IFAS). BLADES OF EACH TOOL, INCLUDING HAND PRUNING, POLE SAWS, HAND SAWS, AND CHAIN SAWS, SHALL BE PLACED ON EACH BRANCH TO OBTAIN THE PROPER PRUNING CUT. THIS SHALL BE DONE IN A WAY THAT WILL NOT CUT. RIP. OR HARM ADJACENT BARK AREAS. NO PERSON WORKING IN TREES SHALL USE SHOES WITH SPIKES, OR ANY OTHER FOOTWEAR WHICH WILL INJURE THE TREE BEING PRUNED. AT NO TIME SHALL ANY PERSON WORKING IN TREES FOR PRUNING
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO OTHER TREES, STRUCTURES, UTILITIES, AND ANY OTHER DAMAGES AS A RESULT OF TREE PRUNING ACTIVITIES AT THE PROJECT SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO TREES DUE TO IMPROPER PRUNING TECHNIQUES. THE COST OF DAMAGES SHALL BE ASSESSED ACCORDING TO THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS GUIDE FOR PLANT APPRAISAL, LATEST EDITION, AS AMENDED, AND SHALL BE DEDUCTED FROM THE INVOICED AMOUNT.

8. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL WOOD, BRUSH AND DEBRIS

PURPOSES WEAR SPURS OR CLIMBING IRONS.

COMPLETELY. THE AREA SHALL BE CLEANED AND RAKED BEFORE THE JOB IS CONSIDERED COMPLETE. DEBRIS SHALL NOT BE ALLOWED TO REMAIN OVERNIGHT UNLESS PRIOR APPROVAL HAS BEEN ARRANGED, AND BRUSH PILES ARE PROPERLY MARKED FOR SAFETY. ANY LARGE LOGS UNABLE TO BE CHIPPED WILL BE LOCATED IN A SAFE PLACE ON-SITE AND URBAN FORESTRY INFORMED BY CONTRACTOR THAT SAME DAY SO THAT THE CITY CAN MAKE ARRANGEMENTS FOR REMOVAL. ALL WOOD BY-PRODUCTS (WOOD CHIPS, LOGS, WOOD, ETC.) SHALL BE DISPOSED OF AT SITE APPROVED BY THE CITY AND COMPLIANT WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. SITE DISPOSAL SHALL BE INDICATED ON INVOICING SUBMITTED TO THE CITY WITH THE DISPOSAL TICKET NUMBER.

DATE

2/8/19

REVISIONS

REVISIONS FOR CONTRACT / BID

Io. DATE

REVISIONS

DRN: TLD

CKD: HDM

DATE: 11/7/18

FOREST HILLS PARK IMPROVEMENTS - EQUIPMENT MANUFACTURERS AND CONTACT INFORMATION

Improvement Location	Label	ltem	Manufacturer	Website	Contact Name	Phone
ourts Tennis Courts	TC-1	Net Posts (PW #2206 BLK)	PW Athletic Company (Patterson-Williams)			(800) 687-5768
. 55 6641 65	TC-2	Tie Down Ground Sleeve (PW #8371-20)	PW Athletic Company (Patterson-Williams)	† · · · · · · · · · · · · · · · · · · ·		(800) 687-5768
	TC-3	Tie Down Strap (PW #8371-30)	PW Athletic Company (Patterson-Williams)	www.pwathletics.com		(800) 687-5768
	TC-4	Ground Sleeves (PW #8303-24-2)	PW Athletic Company (Patterson-Williams)	•		(800) 687-5768
	TC-5	Nets (PW #8352)	PW Athletic Company (Patterson-Williams)	www.pwathletics.com		(800) 687-5768
	TC-6 TC-7	10' high Galv C/L Fence Gates (4' wide 7' high with Transom)				
	TC-8	Fence Posts				
	TC-9	Lighting (Musco) including entire court area	Musco Sports Lighting LLC	www.musco.com	Bob DeCouto	(407) 421-5660
D: 11 1 11 C 1	DC 1	N - P (DW/#2202 20DW)	DWALL C (D.)			(000) 607 576
Pickleball Court	PC-1 PC-2	Net Posts (PW #2202-20PK) Nets (PW #8354-36)	PW Athletic Company (Patterson-Williams) PW Athletic Company (Patterson-Williams)	 		(800) 687-576 (800) 687-576
	PC-3	10' high Galv C/L Fence	1 W Atmetic Company (Fatterson-Williams)	www.pwatmetics.com		(800) 087-370
	PC-4	Gates (4' wide 7' high with Transom)				
	PC-5	Fence Posts				
	PC-6	Lighting (Musco) included in Tennis Courts	Musco Sports Lighting LLC	www.musco.com	Bob DeCouto	(407) 421-566
Racquetball Courts	RC-1	Lighting (Musco) included in Tennis Courts	Musco Sports Lighting LLC	www.musco.com	Bob DeCouto	(407) 421-566
Multi-Purpose	MC-1	Basketball Post (PW #1572)	PW Athletic Company (Patterson-Williams)			(800) 687-576
Court	MC-2 MC-3	Basketball Backboard (PW #20) Basketball Goal and Net (PW #45)	PW Athletic Company (Patterson-Williams) PW Athletic Company (Patterson-Williams)	·		(800) 687-576 (800) 687-576
	MC-4	10' high Galv C/L Fence	r w Atmetic Company (Fatterson-wimams)	www.pwatmetic.com		(800) 087-370
	MC-5	Fence Posts				
	MC-6	Lighting (Musco) included in Tennis Courts	Musco Sports Lighting LLC	www.musco.com	Bob DeCouto	(407) 421-566
uth Driveta Drawarts	CD 1	Cl Black Visual C/L Fancing				
uth Private Property ncing	SP-1 SP-2	6' Black Vinyl C/L Fencing Fence Posts				
	<u> </u>					
ulti-purpose Sports Field	MS-1	Adjust Right High School Football Goal Posts	Sportsfield Specialties, Inc.	www.sportsfieldspecialties.com		(607) 267-362
	MS-2	Round Faced Soccer Goals Soccer Goal Wheel Kits	Sportsfield Specialties, Inc.	www.sportsfieldspecialties.com	Brian Jaeger	(607) 267-362
	MS-3	Lacrosse Goals	Sportsfield Specialties, Inc.	www.sportsfieldspecialties.com	Brian Jaeger	(607) 267-362
		Lacrosse Goal Wheel Kits	p = 1			, 207 302
		GoalPak Safety System				
	MS-4	Football Safety Netting 40' h X 50' w	Sportsfield Specialties, Inc.	www.sportsfieldspecialties.com		(607) 267-362
	MS-5	Goal Signed/Sealed Plans Sportsfield Specialties Freight	Sportsfield Specialties, Inc.	www.sportsfieldspecialties.com	Brian Jaeger	(607) 267-362
	MS-6	Bleachers (Aluminum 4 row with fencing)	BSN Sports	www.bsnsports.com		(800) 856-348
		Bleacher Cover (Cantilever)	Shade Structures USA, Inc.	www.shadestructureusa.com	Basel Hani	(877) 840-070
	- MS-8	Lighting (Musco)	Musco Sports Lighting LLC	www.musco.com	Bob DeCouto	(407) 421-566
	- MS-9	Scoreboard (Daktronics FB-2018)	Daktronics, Inc.	www.daktronics.com/en-us		(800) 325-876
<u>ail</u>	T-1	Bridge at Creek (Permatrak, 40')	PermaTrak	www.permatrak.com		(877) 332-786
ercise Equipment	FS-1	3 Person Static Combo	Greenfield Outdoor Fitness	www.gfoutdoorfitness.com	Jeff Dugan	(888) 315-903
	FS-2	Acc Lat Pull-Down				
			-			
	FS-3	Combo Butterfly & Reverse Fly (Config A)	- -			
	[S-4	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle	- - -			
		Combo Butterfly & Reverse Fly (Config A)	- - -			
	FS-4 FS-5	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press				
	FS-4 FS-5 FS-6	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping				
	FS-4 FS-5 FS-6 FS-7	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation				
	FS-4 FS-5 FS-6	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping				
	FS-4 FS-5 FS-6 FS-7	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick	- - - - - - - - - -		Scott Brushwood	
<u>elters</u>	FS-4 FS-5 FS-6 FS-7	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation		www.poligon.com	Rep Services	(727) 539-845
elters	FS-4 FS-5 FS-6 FS-7 FS-8	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter			Rep Services Scott Brushwood	
<u>elters</u>	FS-4 FS-5 FS-6 FS-7	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick	Poligon	www.poligon.com	Rep Services	
elters og Park Fencing	FS-4 FS-5 FS-6 FS-7 FS-8	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter			Rep Services Scott Brushwood	
o g Park	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh)			Rep Services Scott Brushwood	
o g Park	FS-4 FS-5 FS-6 FS-7 FS-8 S-1&S-2 S-3	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing			Rep Services Scott Brushwood	
o <mark>g Park</mark> Fencing	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh)			Rep Services Scott Brushwood	
g Park Fencing	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh)			Rep Services Scott Brushwood	
g Park Fencing e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts			Rep Services Scott Brushwood	(727) 539-845
g Park Fencing e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc.	www.mostdependable.com	Rep Services Scott Brushwood	(727) 539-845 (727) 539-845 (800) 552 633 (800) 552 633
g Park Fencing e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain)	Poligon Most Dependable Fountains, Inc.	www.poligon.com www.mostdependable.com	Rep Services Scott Brushwood Rep Services	(727) 539-845 (727) 539-845 (800) 552 633 (800) 552 633
g Park Fencing e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-2 SF-3	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot	www.mostdependable.com www.mostdependable.com www.dogipot.com	Rep Services Scott Brushwood Rep Services Scott Brushwood	(800) 552 633 (800) 364-768
g Park Fencing e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc.	www.mostdependable.com	Rep Services Scott Brushwood Rep Services	(800) 552 633 (800) 364-768
e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-2 SF-3	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot	www.mostdependable.com www.mostdependable.com www.dogipot.com	Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845
e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-4 SF-5	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-601 with center arm)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc.	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com	Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood	(800) 552 633 (800) 552 633 (800) 552 633 (800) 364 768 (727) 539-845
e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1& S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 -SF-4	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc.	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com	Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845
g Park Fencing e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-4 SF-5	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-601 with center arm)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc.	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com	Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood	(800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845 (727) 539-845
e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-32SO) Benches (DuMor 270-60I with center arm) Picnic Table, 8' ADA (Anova D1007)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.dumor.com	Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood	(800) 552-633 (800) 552-633 (800) 364-768 (727) 539-845 (727) 539-845
Fencing Fencing Fencing Fencing Fencing Fencing Fencing	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6 SF-7	Combo Butterfly & Reverse Fly (Config A) Ace Hand Cycle Combo Butterfly & Reverse Fly (Config B) Ace Vert Press Ace Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-60l with center arm) Picnic Table, 8' ADA (Anova D1007) Picnic Table, 6' (Anova D2003)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.dumor.com www.anovafurnishings.com	Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845 (727) 539-845 (727) 539-845
e Furnishings	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-32SO) Benches (DuMor 270-60I with center arm) Picnic Table, 8' ADA (Anova D1007)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.dumor.com	Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(727) 539-845 (727) 539-845 (800) 552-633 (800) 364-768 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845
Fencing Fencing Fencing Fencing Fencing Fencing Fencing	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6 SF-7	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-601 with center arm) Picnic Table, 6' (Anova D2003) Benches (DuMor 270-601 with center arm)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings Anova Furnishings	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.dumor.com www.anovafurnishings.com www.anovafurnishings.com	Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood	(800) 552 633 (800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845 (727) 539-845 (727) 539-845
Fencing Fencing Fencing Fencing Fencing Fencing Fencing	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6 SF-7	Combo Butterfly & Reverse Fly (Config A) Ace Hand Cycle Combo Butterfly & Reverse Fly (Config B) Ace Vert Press Ace Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-60l with center arm) Picnic Table, 8' ADA (Anova D1007) Picnic Table, 6' (Anova D2003)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.dumor.com www.anovafurnishings.com	Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845 (727) 539-845 (727) 539-845
Fencing Fencing Fencing Fencing Fencing Fencing Fencing	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6 SF-7	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-601 with center arm) Picnic Table, 6' (Anova D2003) Benches (DuMor 270-601 with center arm)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings Anova Furnishings	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.dumor.com www.anovafurnishings.com www.anovafurnishings.com	Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood	(800) 552 633 (800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845 (727) 539-845 (727) 539-845
Fencing Dog Park Dog Park Trail	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6 SF-7	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-60l with center arm) Picnic Table, 8' ADA (Anova D1007) Picnic Table, 6' (Anova D2003) Benches (DuMor 270-60l with center arm) Waste Receptacles (DuMor 272-3250)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings DuMor, Inc. DuMor, Inc. DuMor, Inc.	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.dumor.com www.anovafurnishings.com www.anovafurnishings.com www.dumor.com	Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845
Fencing Fencing Fencing Fencing Fencing Fencing Fencing	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6 SF-7	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-601 with center arm) Picnic Table, 6' (Anova D2003) Benches (DuMor 270-601 with center arm)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings Anova Furnishings	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.dumor.com www.anovafurnishings.com www.anovafurnishings.com www.dumor.com	Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(800) 552 633 (800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845 (727) 539-845 (727) 539-845
Fencing Fencing Fencing Fermishings Dog Park Trail	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6 SF-7 SF-8 SF-9	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-60l with center arm) Picnic Table, 8' ADA (Anova D1007) Picnic Table, 6' (Anova D2003) Benches (DuMor 270-60l with center arm) Waste Receptacles (DuMor 272-3250)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. Anova Furnishings Anova Furnishings DuMor, Inc. DuMor, Inc. Anova Furnishings	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.anovafurnishings.com www.anovafurnishings.com www.dumor.com	Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(800) 552 633 (800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845
Fencing Fencing Fencing Fermishings Dog Park Trail	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6 SF-7	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-60l with center arm) Picnic Table, 8' ADA (Anova D1007) Picnic Table, 6' (Anova D2003) Benches (DuMor 270-60l with center arm) Waste Receptacles (DuMor 272-3250)	Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings DuMor, Inc. DuMor, Inc. DuMor, Inc.	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.dumor.com www.anovafurnishings.com www.anovafurnishings.com www.dumor.com	Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845
Fencing Fencing Fencing Fermishings Dog Park Trail	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6 SF-7 SF-8 SF-9	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4' high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-60l with center arm) Picnic Table, 6' (Anova D2003) Benches (BuMor 270-60l with center arm) Waste Receptacles (DuMor 272-3250) Picnic Table, 6' (Anova D2003)	Poligon Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings Anova Furnishings Anova Furnishings Anova Furnishings	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.anovafurnishings.com www.anovafurnishings.com www.dumor.com www.anovafurnishings.com www.dumor.com	Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(800) 552 633 (800) 552 633 (800) 552 633 (800) 364-768 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845 (727) 539-845
g Park Fencing e Furnishings Dog Park Trail Shelters	FS-4 FS-5 FS-6 FS-7 FS-8 S-1 & S-2 S-3 DP-1 DP-2 DP-3 SF-1 SF-2 SF-3 SF-4 SF-5 SF-6 SF-7 SF-8 SF-9 SF-11 SF-12 SF-13	Combo Butterfly & Reverse Fly (Config A) Acc Hand Cycle Combo Butterfly & Reverse Fly (Config B) Acc Vert Press Acc Chest Press Shipping Installation Concrete Pads for Exercise Stations, 6" thick Poligon 20' Square Shelter Poligon 20' Octogon Shelter 4'high Black Vinyl Fencing 5' wide Gates (Ped and Veh) Posts Drinking Fountain, Large Dogs (MDF 440 SMSS with Optional Pet Fountain) Drinking Fountain, Small Dogs (MDF 350 SMSS) Dog Stations (Dogipot Quik Pet Station #1011 Mini) Waste Receptacles (DuMor 272-3250) Benches (DuMor 270-60l with center arm) Picnic Table, 8' ADA (Anova D1007) Picnic Table, 8' ADA (Anova D2003) Benches (DuMor 270-60l with center arm) Picnic Table, 6' (Anova D2003) Picnic Table, 6' (Anova D2003) Benches (DuMor 270-60l with center arm)	Poligon Most Dependable Fountains, Inc. Most Dependable Fountains, Inc. Dogipot DuMor, Inc. DuMor, Inc. Anova Furnishings Anova Furnishings DuMor, Inc. DuMor, Inc. DuMor, Inc. DuMor, Inc. DuMor, Inc. DuMor, Inc.	www.mostdependable.com www.mostdependable.com www.dogipot.com www.dumor.com www.anovafurnishings.com www.anovafurnishings.com www.dumor.com www.dumor.com www.anovafurnishings.com www.dumor.com	Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services Scott Brushwood Rep Services	(727) 539-845 (800) 552-633 (800) 552-633 (800) 364-768 (727) 539-845 (727) 539-845

GENERAL NOTES

CIVIL CONSULTANTS, INC.

CITY of TAMPA

Department of Transportation

and Stormwater Services

Stormwater Engineering Division

Odessa, Florida 33556 Phone: 813.731.0052 duane@mphcivil.com Florida CA No.: 30727

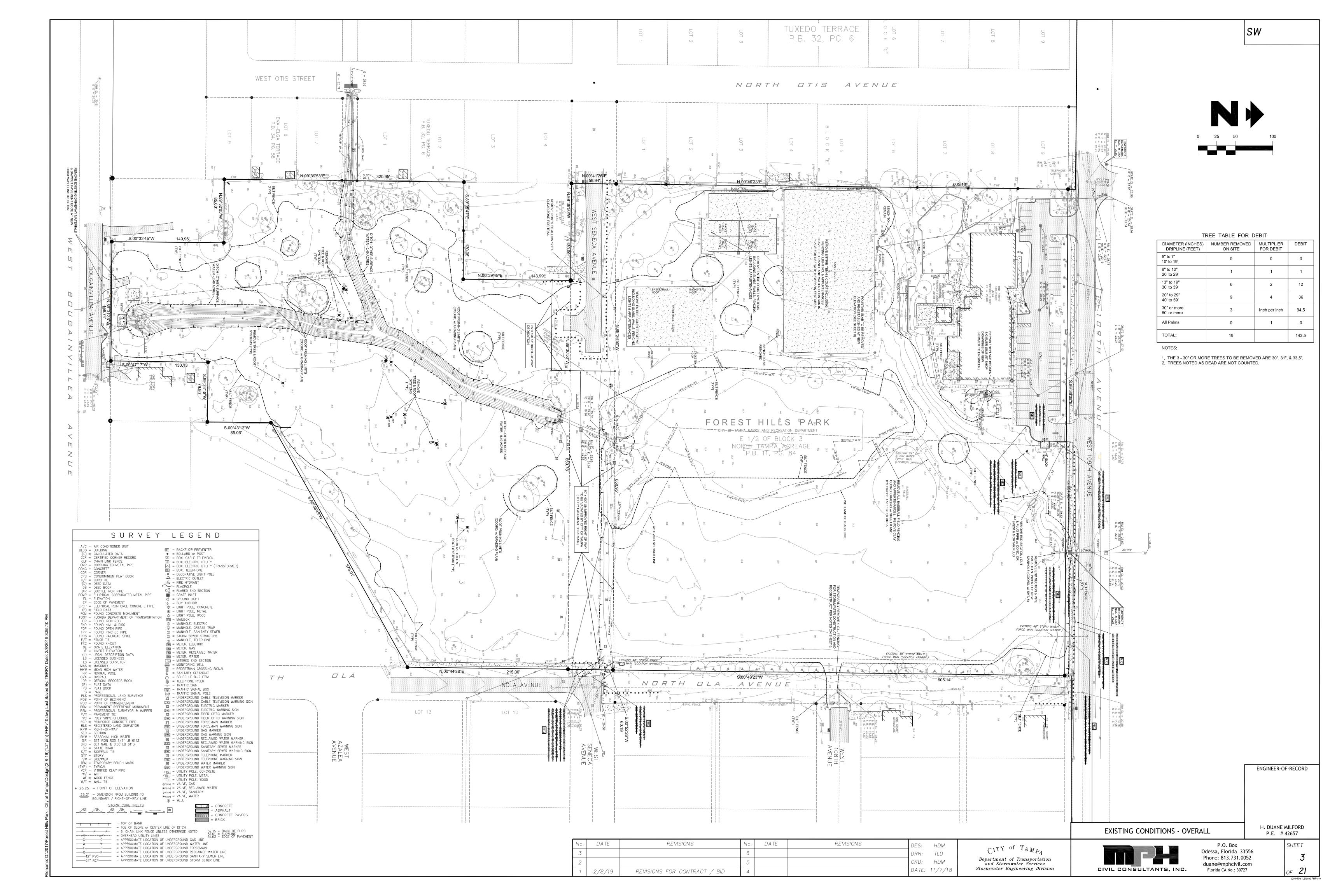
P.O. Box

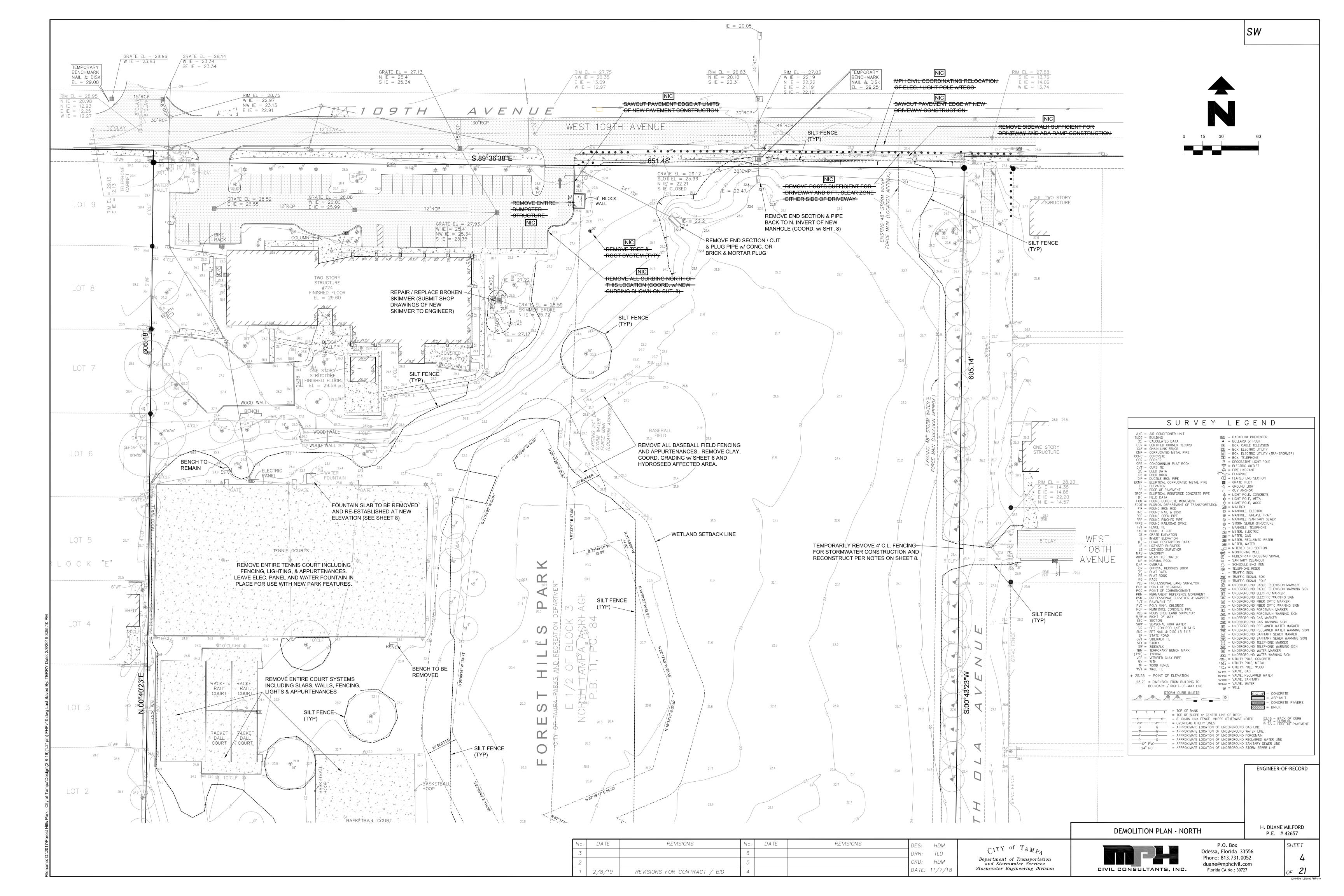
SHEET

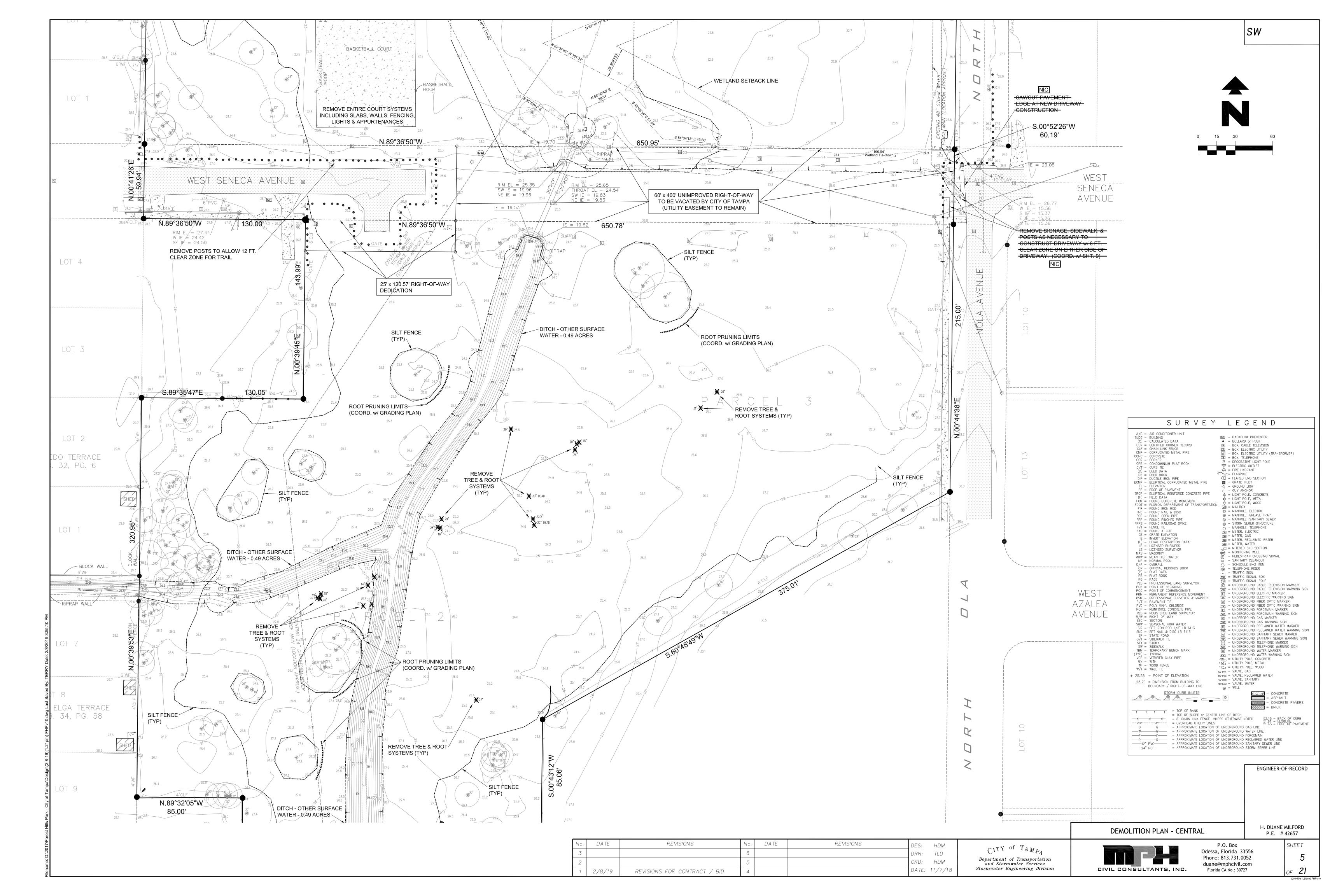
ENGINEER-OF-RECORD

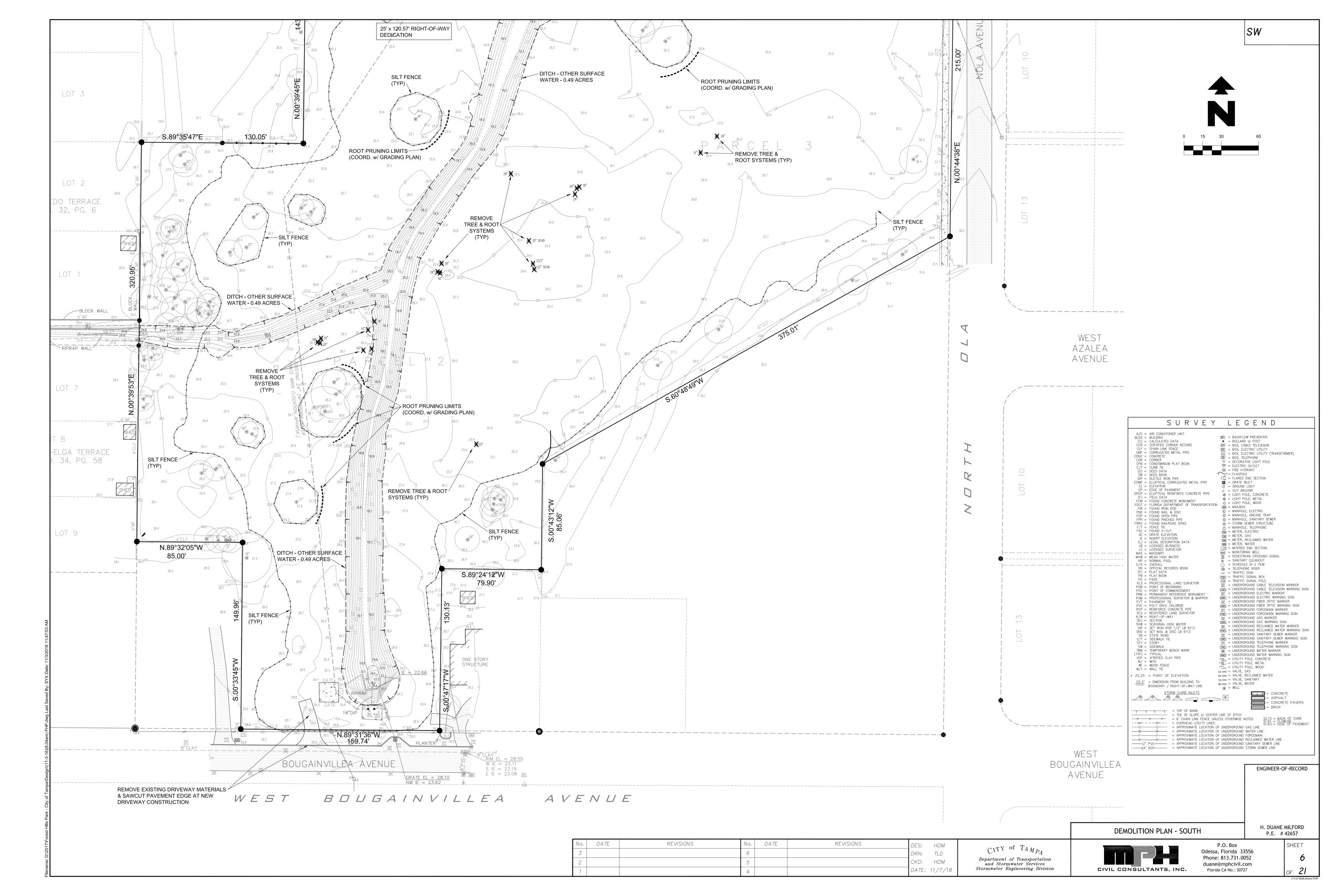
H. DUANE MILFORD

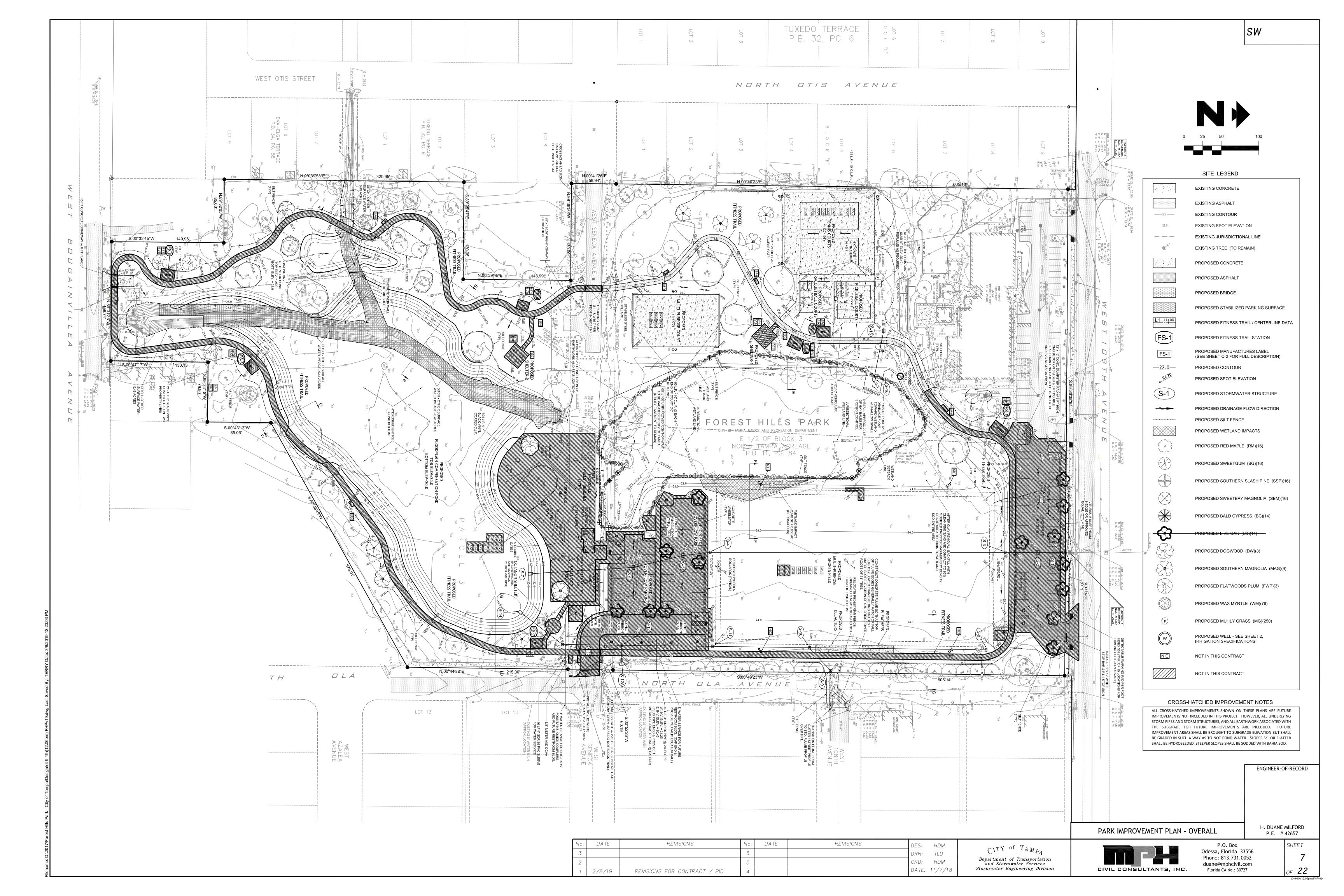
P.E. # 42657

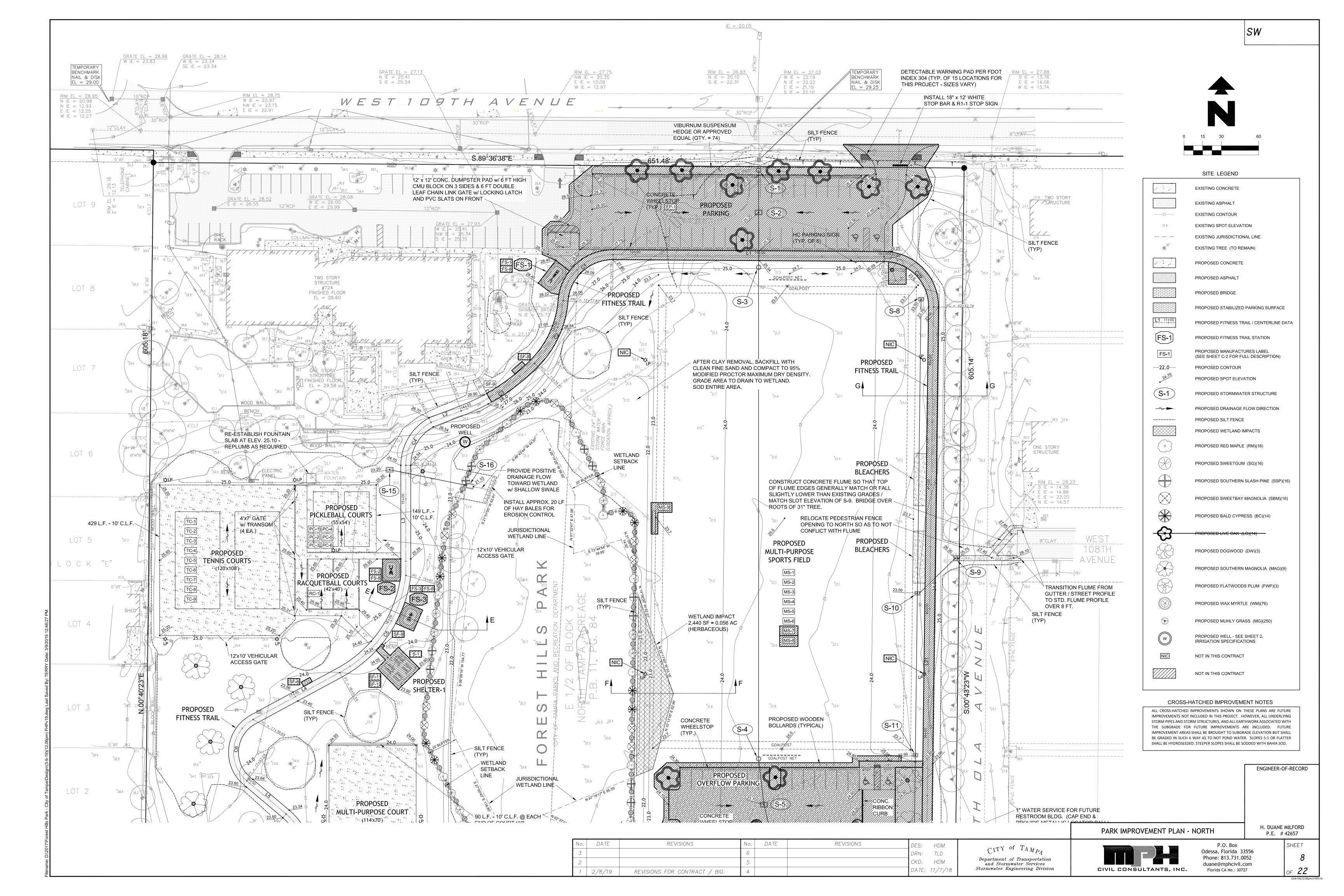


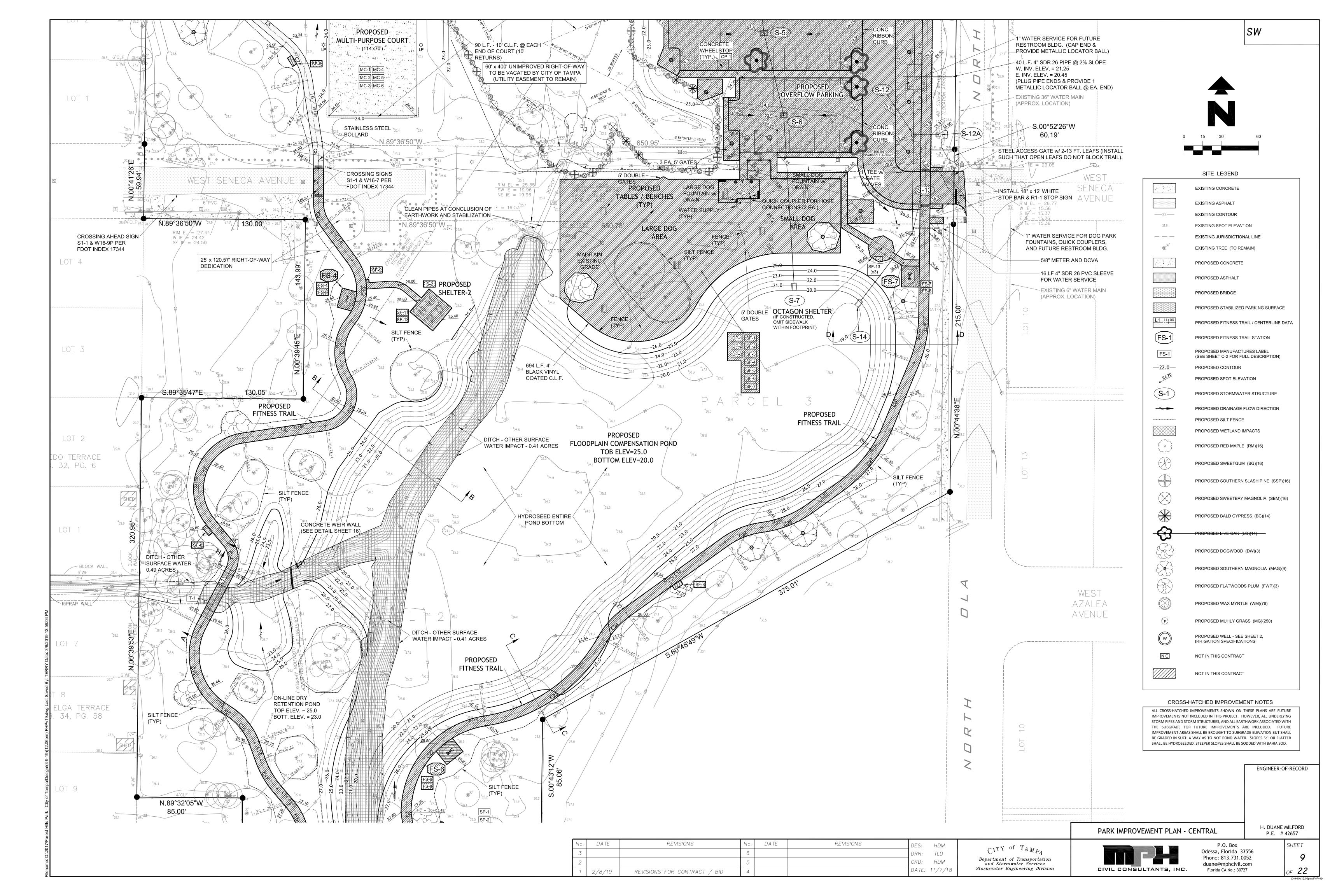


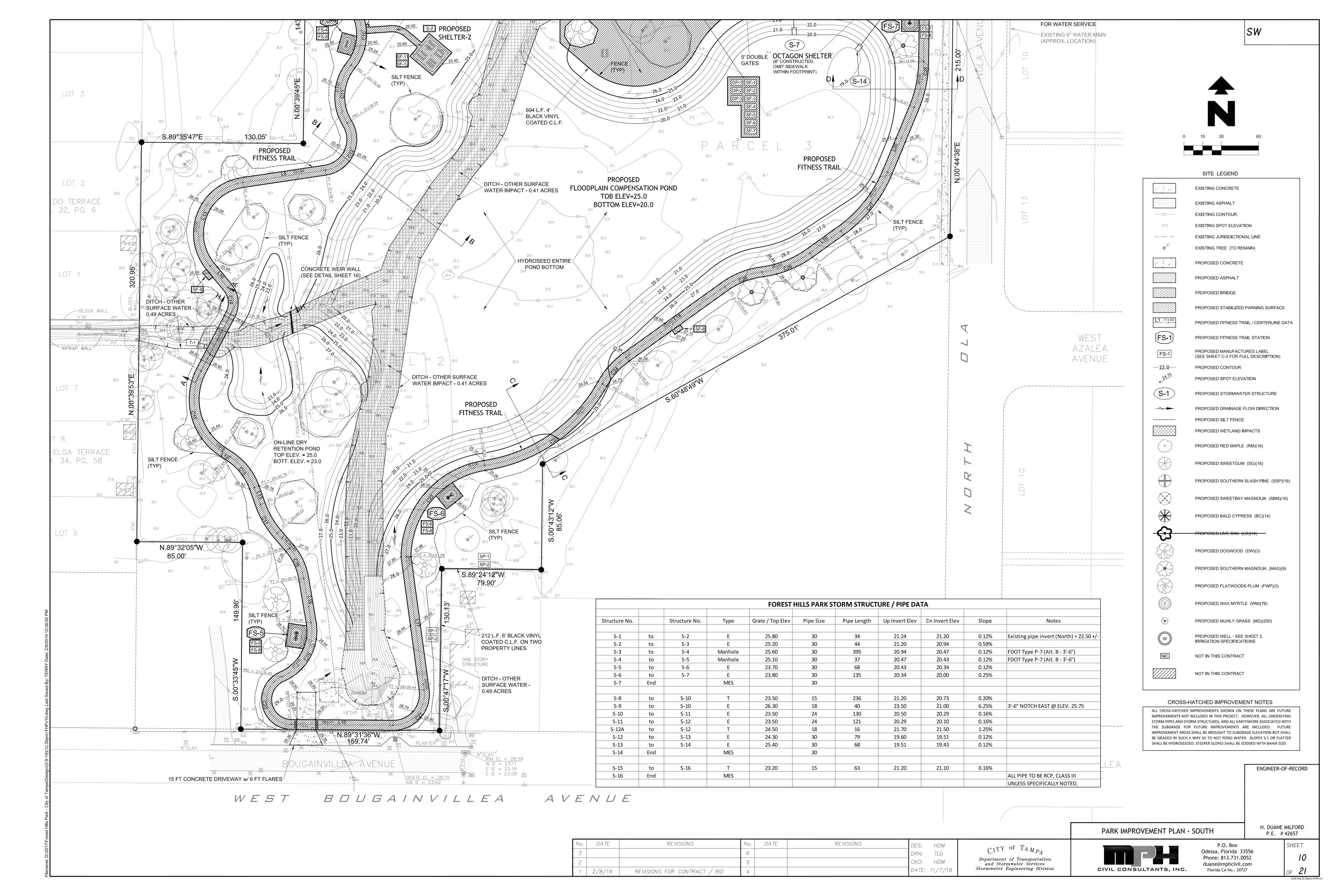


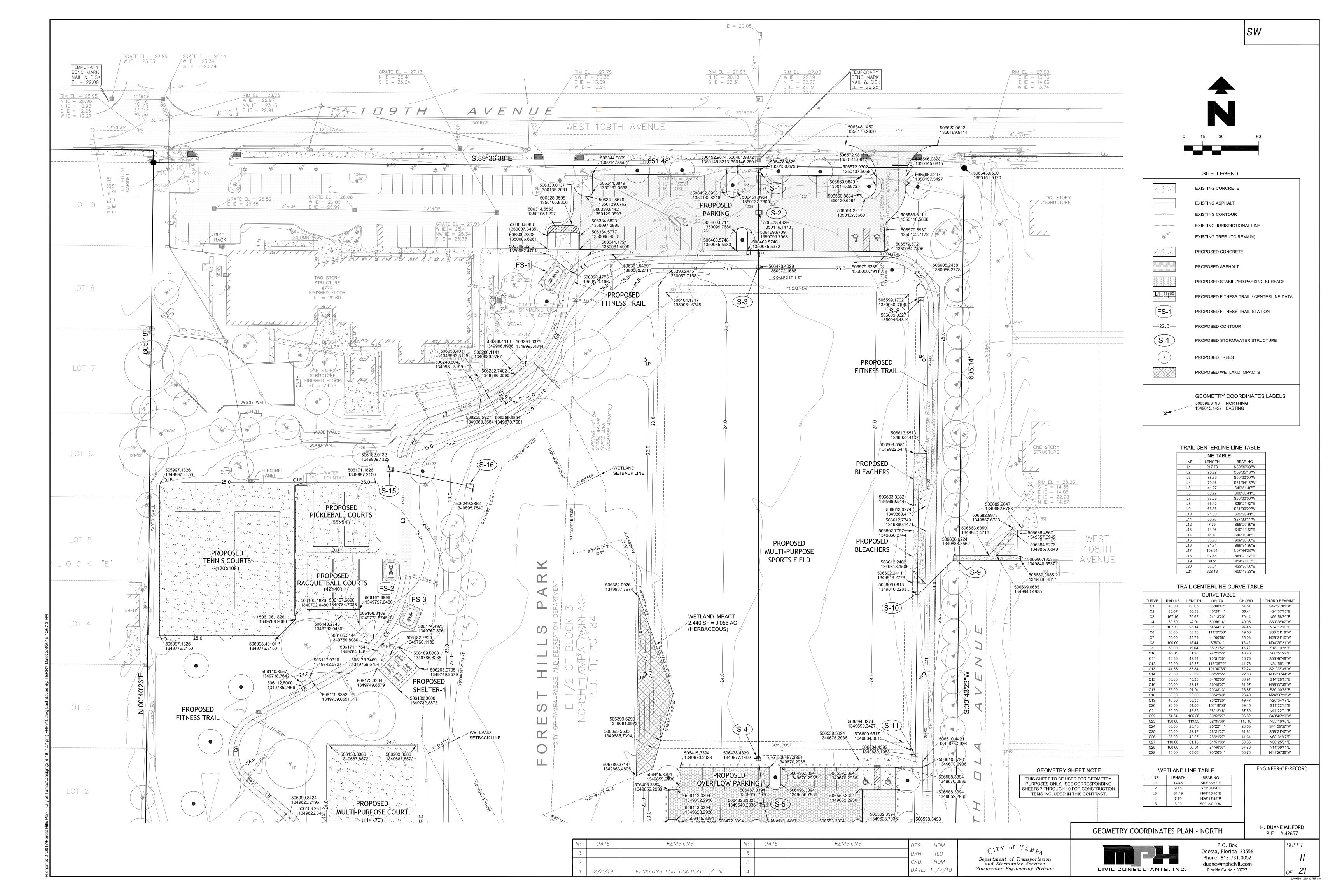


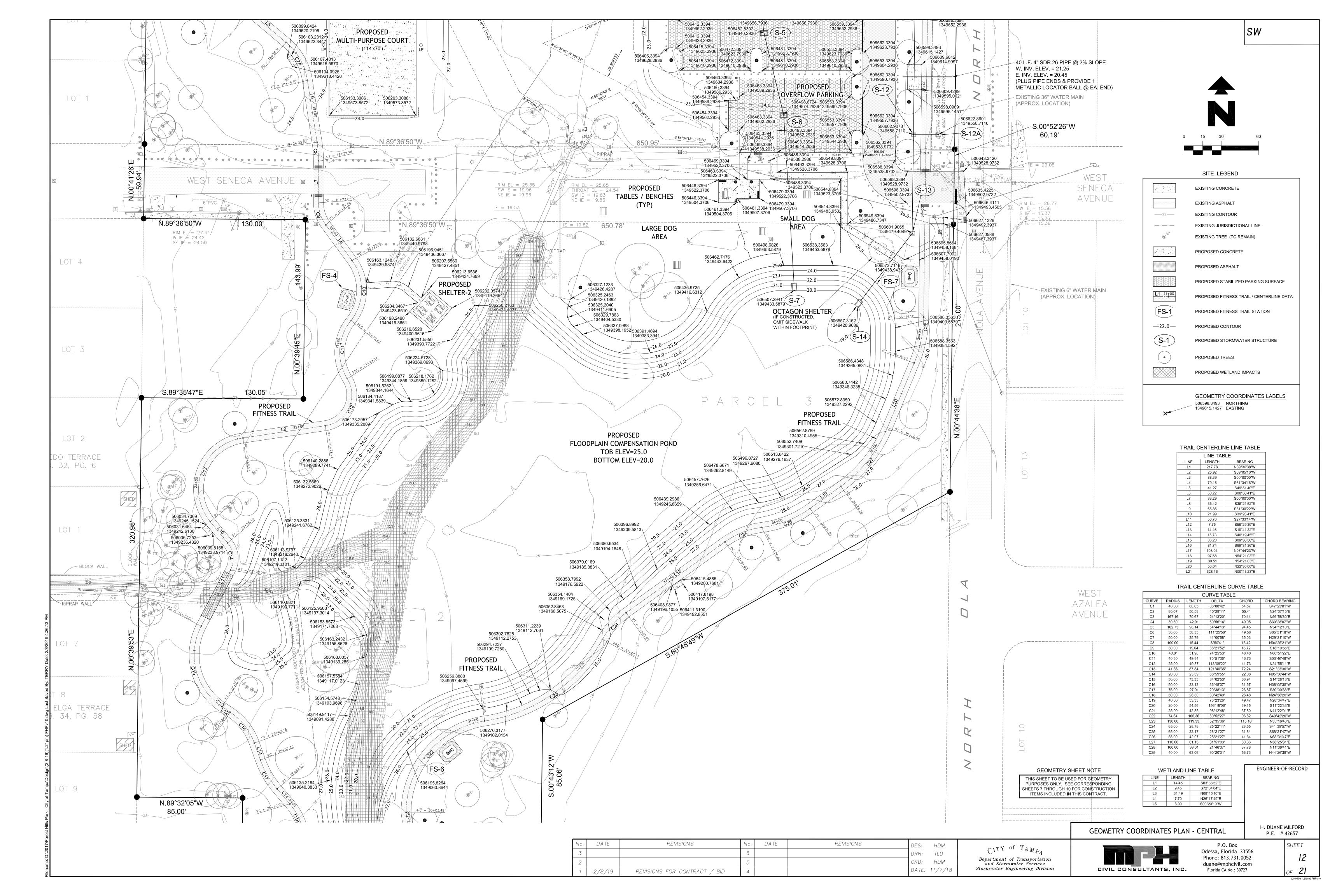


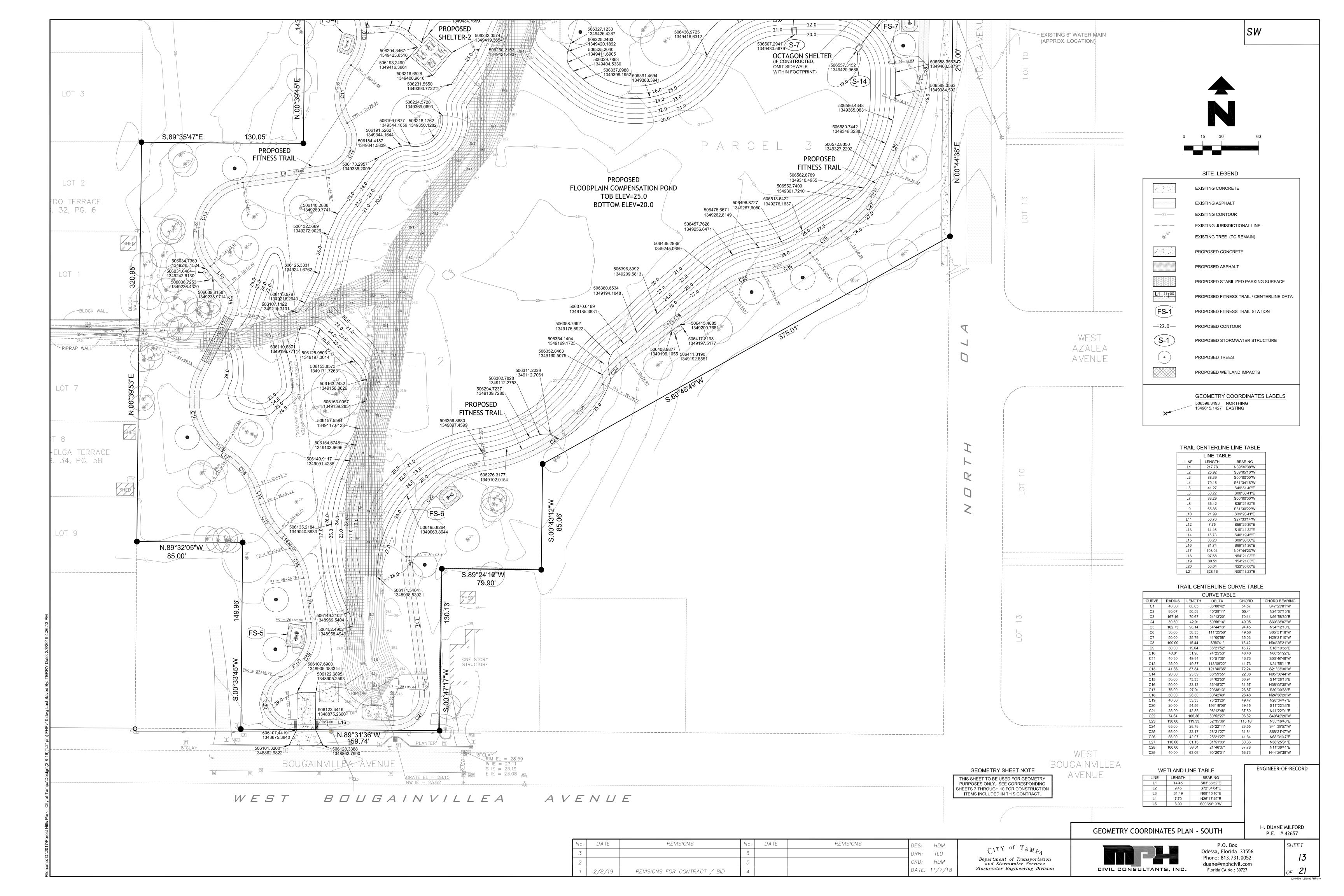


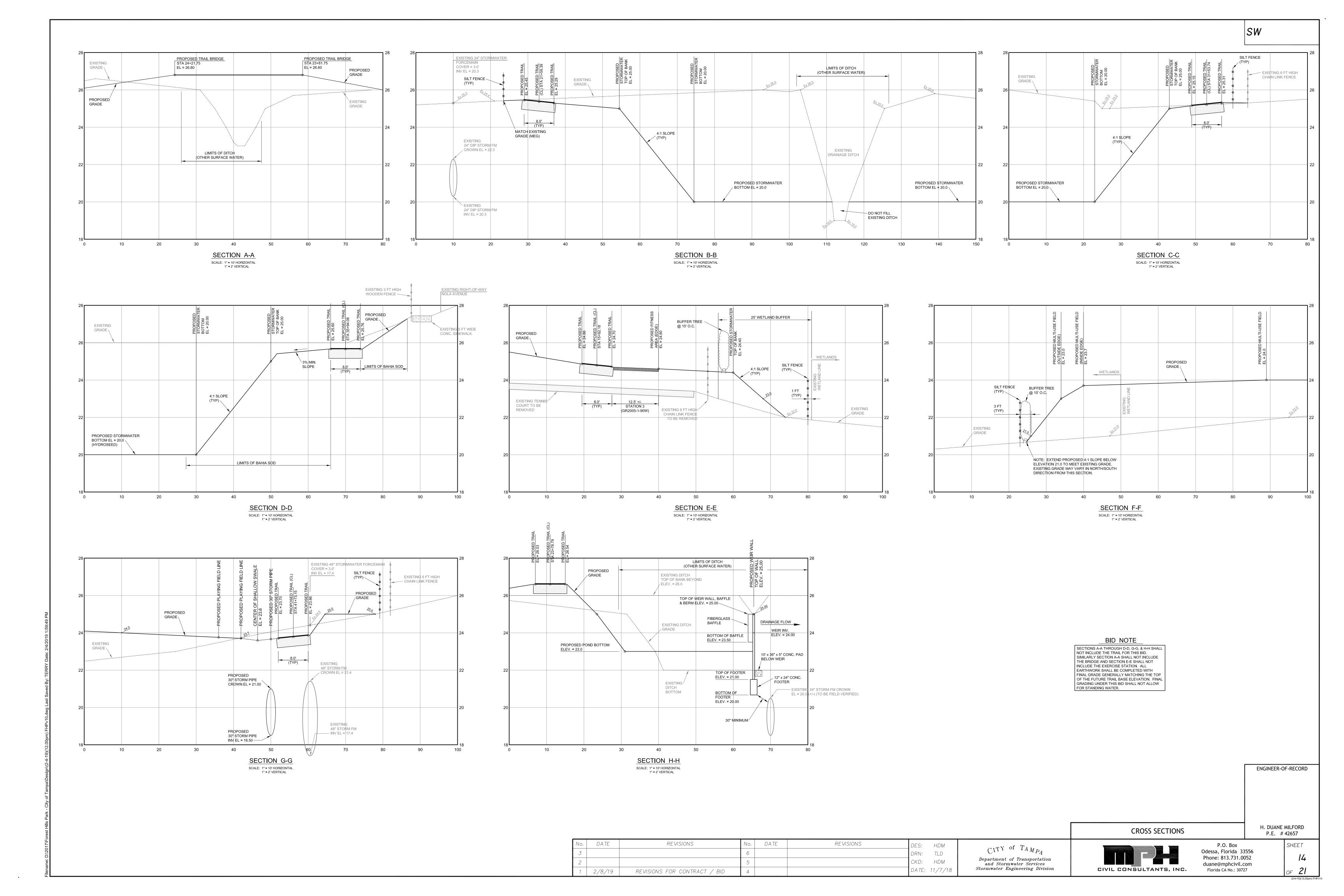


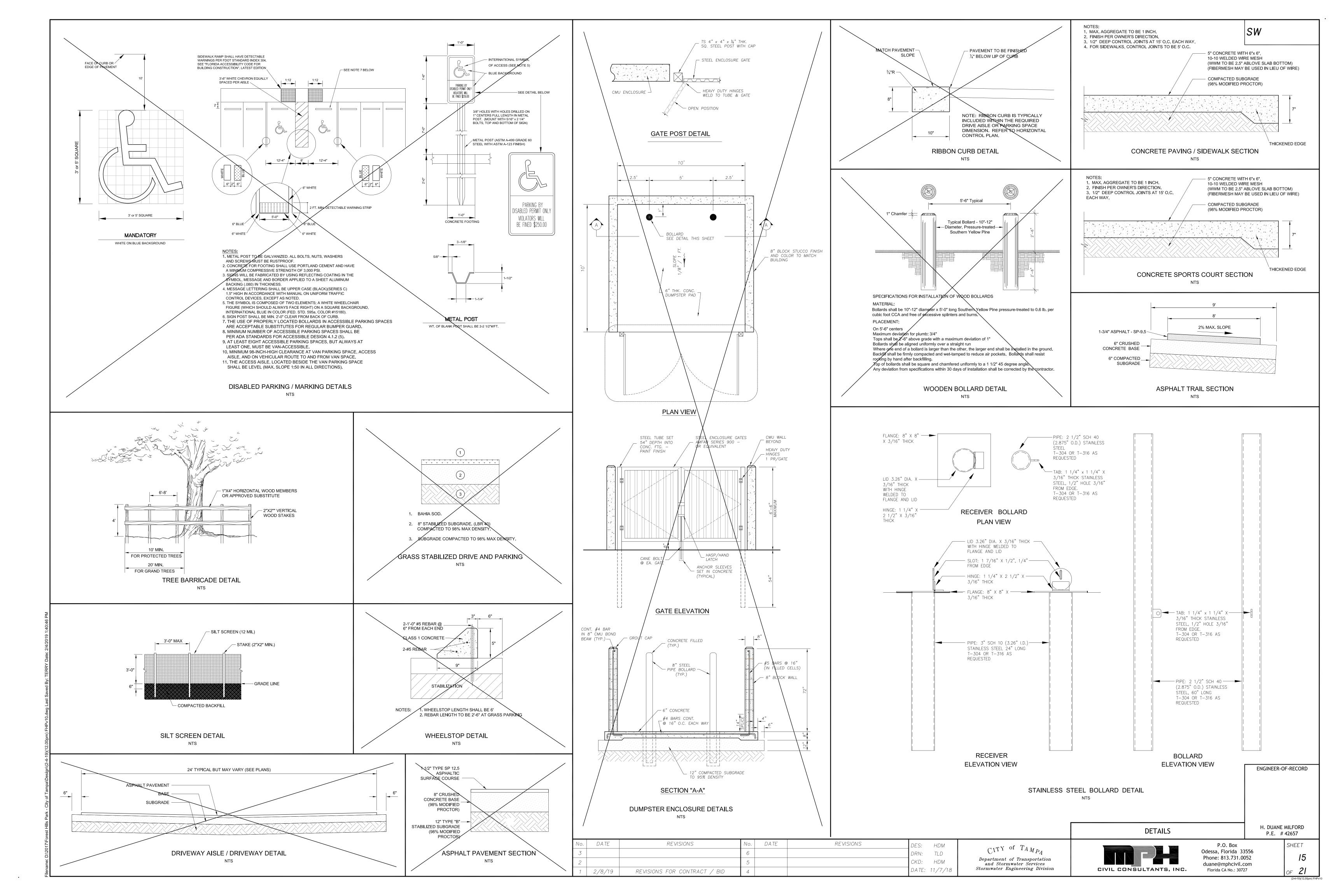


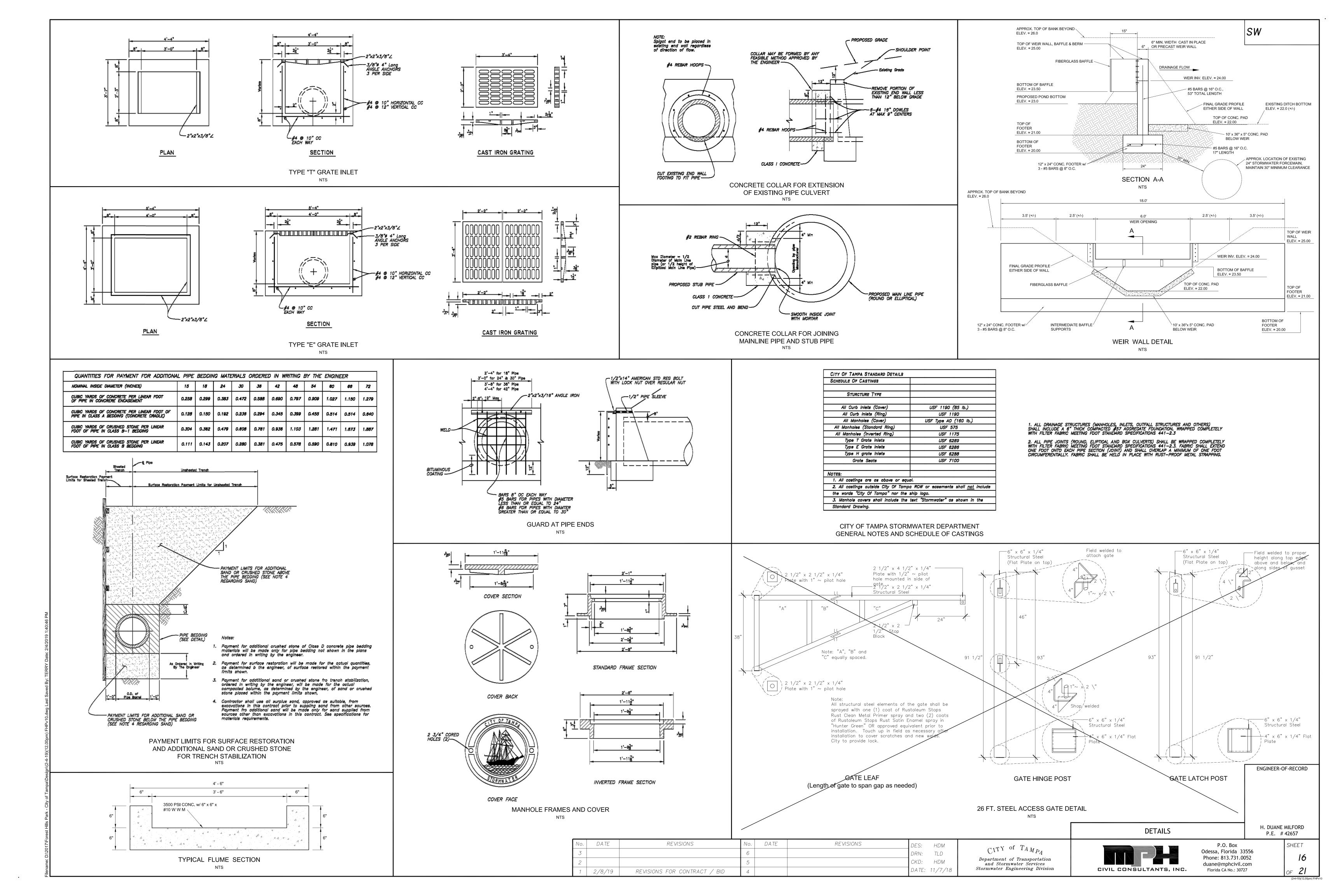


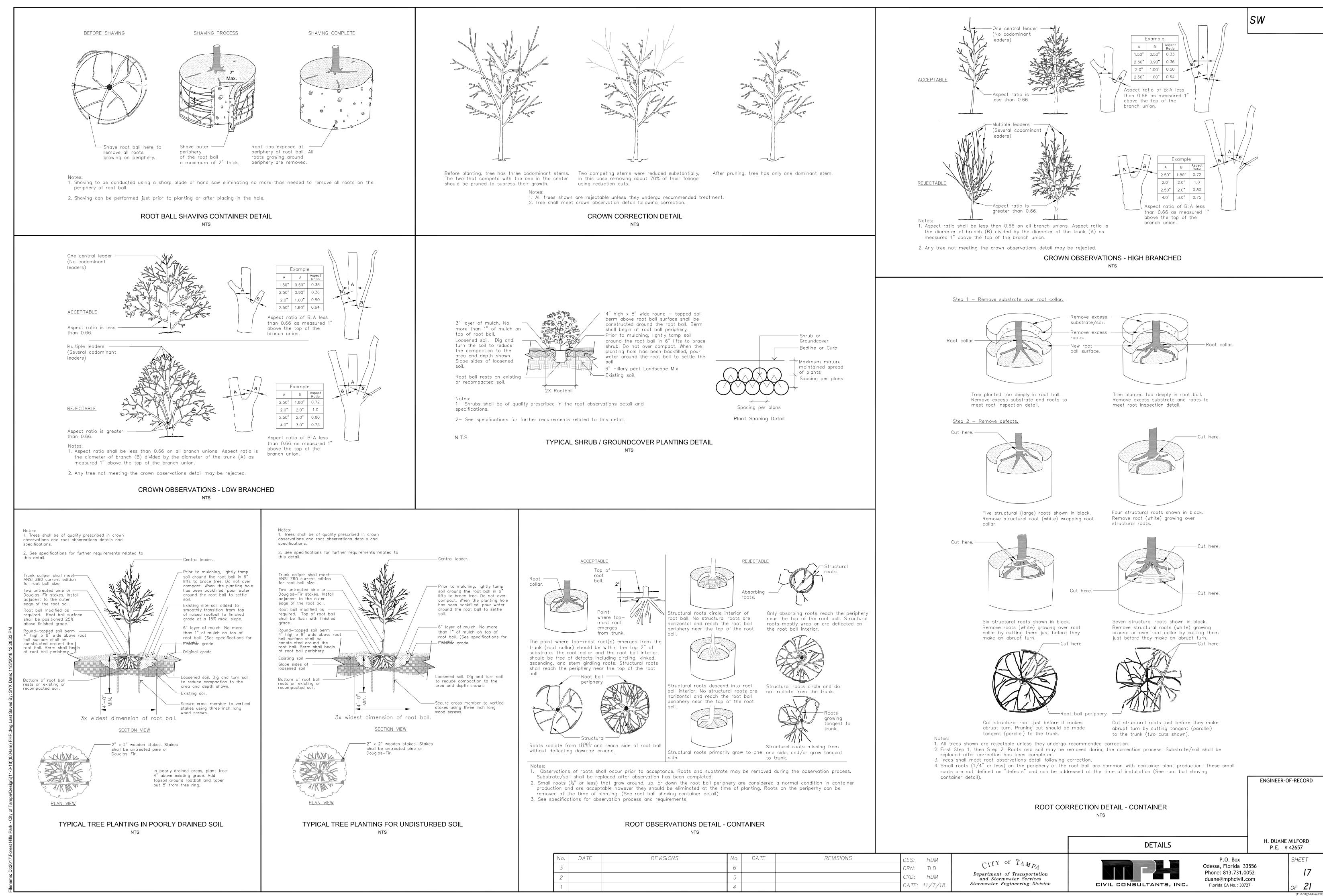


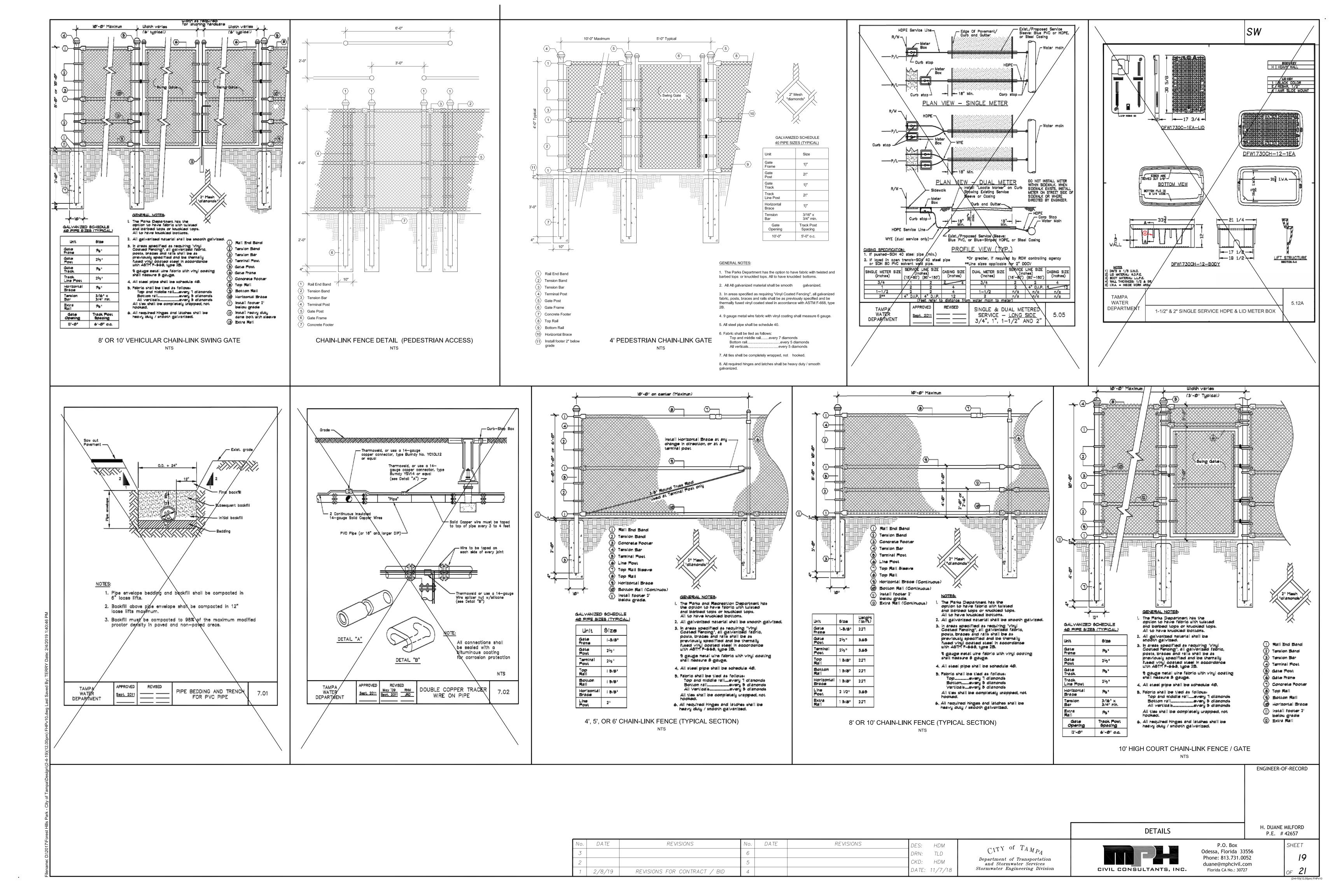


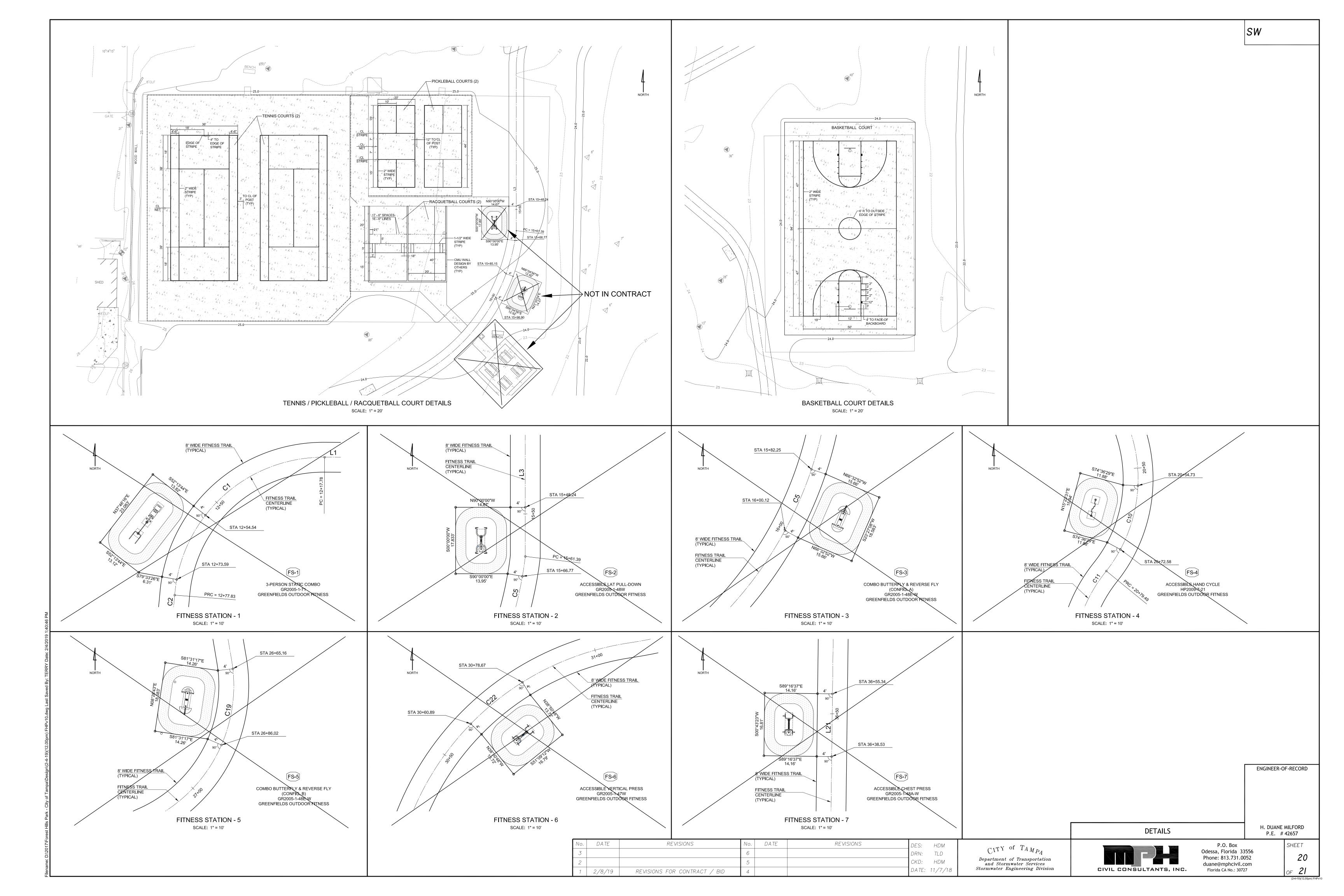


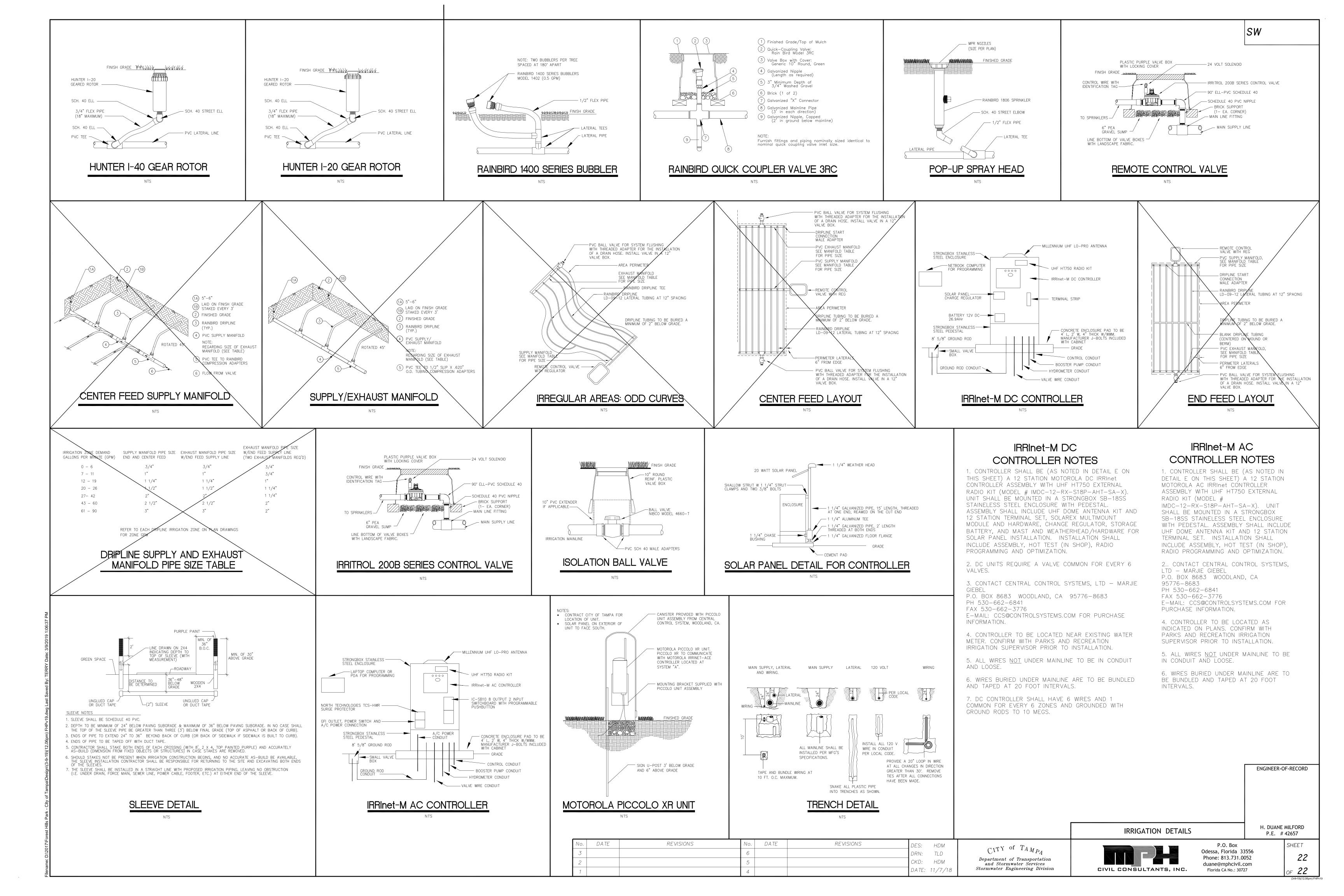










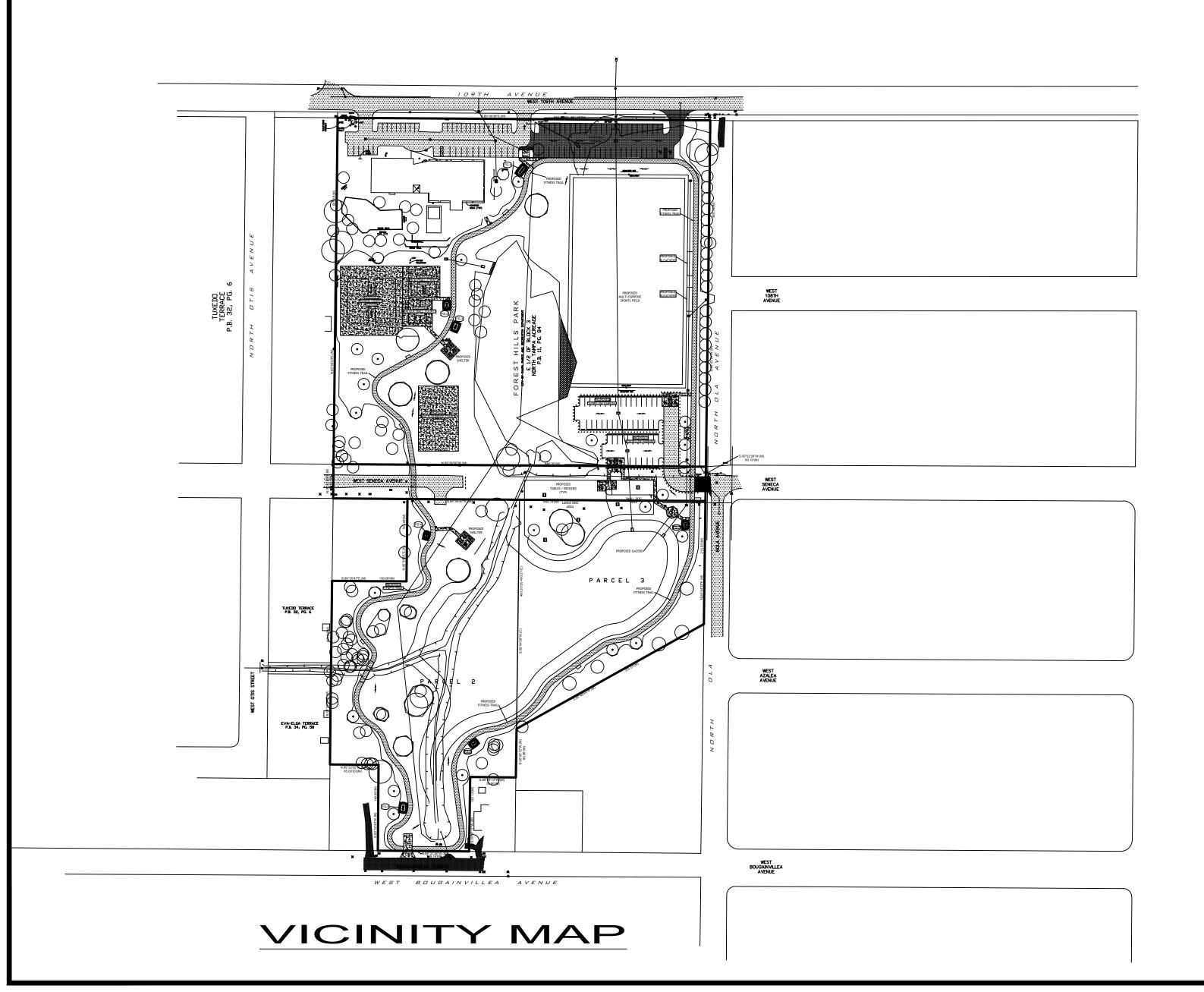


CITY OF TAMPA

FOREST HILLS PARK 724 WEST 109TH AVE., TAMPA, FL

NEW RACQUETBALL COURTS

CONTRACT NUMBER: 18-D-61314



INDEX OF DRAWINGS

SHEET #

CS

COVER SHEET

S1

STRUCTURAL NOTES

S2

STRUCTURAL FLOOR PLANS

NON-STRUCTURAL SHETT

This sheet contains no structural information and is not covered by the the engineering sea Specifically, all information on this sheet if or visual reference only.

The Structures Group, Inc.

The Structures Group, Inc.

The Structures Group, Inc.

The Structures of the sequence of the sequ

Plans and specifications have been designed to withstand the design wind speed designated on Sheet S—1(Structural Notes) unless noted otherwise on this sheet.

and sealed or until the requirements of the Building Code are changed.

All signed and sealed drawings are signed and sealed for the structural portions of the drawings only. All other information

Architectural, Electrical, Mechanical, Plumbing, Dimensional, et

hese drawings are valid for 12 months after date they signed

are for visual reference only and are not covered under this seal.

It is the Contractors responsibility to review all drawings before

construction begins. The Engineer of Record is responsible for the structural integrity of this project only. Any discrepency between field conditions, other design professionals' shop drawings, Contractors' building methods, and these construction documents must be brought to the attention of the Engineer of Record prior to the commencement of construction. When such discrepencies exist, Engineer of Record is not responsible for any related components once installed.

Contractor must verify all dimensions prior to start of any construction. Contractor must submit all shop drawing documents as specified in these drawings prior to the start of any construction and is solely responsible for related components if installed without appropriate shop drawing review and approval.

ADDITIONS/RENOVATIONS
The Engineer of Record is responsible for the proposed changes to the original structure shown on these pages only. The Engineer of Record is not responsible for existing structural systems or components.

ELECTRONIC SIGNATURES

An electronic signature by the Engineer of Record does not certify any non-structural information.

Non-structural sheets (Mechanical, Electrical, Plumbing, Site, Building Sections, Elevations, Waterproofing, Architectural, Florida Product Approval, Dimensional, etc...) are not covered by Engineer of Record seal. Sheets that provide both structural and non-structural information are certified solely for the structural information presented on them. Non-structural sheets are

Trified solely for the structural information esented on them. Non-structural sheets are noted as such and are not covered in any wathis seal.

24 WEST 109TH A ACQUETBALL COUF ONTRACT NO: 18-D-61

NUMBER: 20180193 E: AUGUST 28, 2018

DATE: AL

CALE:

SHEET NUMBER

SIGN & SEAL

- 1.1 STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 6th Edition (2017)
- AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS. 1.2 VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 1.3 DO NOT SCALE DRAWINGS. 1.4 SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MISCELLANEOUS STEEL
- ITEMS NOT SHOWN HEREON. 1.5 SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ANCHORED, SUPPORTED
- AND EMBEDDED ITEMS WHICH AFFECT THE STRUCTURAL WORK. VERIFY DETAILS AND DIMENSIONS WITH EQUIPMENT PURCHASED.
- 1.6 COORDINATE SIZES AND LOCATIONS OF OPENINGS IN FLOORS AND ROOF WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL REQUIREMENTS.
- 1.7 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE ENGINEER.
- 1.8 TOP OF SLAB AT GROUND LEVEL REFERENCE EL. 100'-0". SEE SITE PLAN FOR ACTUAL ELEVATION. 1.9 NO CHANGES IN CONSTRUCTION FROM THAT SHOWN IN THE APPROVED SHOP DRAWINGS
- SHALL BE MADE WITHOUT THE SPECIFIC WRITTEN APPROVAL OF THE ENGINEER. 1.10 SUBMITTALS SHALL CONFORM TO REQUIREMENTS OF CONTRACT DOCUMENTS, AND SHALL
- BE CHECKED AND MARKED "APPROVED" BY CONTRACTOR PRIOR TO SUBMITTAL NON-CONFORMING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
- 1.11 SHOP DRAWINGS SHALL NOT BE REPRINTS OF CONTRACT DOCUMENTS 1.12 THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE
- THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. 1.13 DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE DETERMINED BY THE TITLE OF DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED

TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES

BY THE ENGINEER OF RECORD. 1.14 THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.

1.15 DESIGN DATA

1.12.1 LIVE LOADS **ROOFS** FI OOR 40 PSF CORRIDOR /BALCONY 100 PSF

1.12.2 DEAD LOADS ROOF/FLOOR FRAMING

1.16 WIND VELOCITY 145 MPH (I = 1.0), EXP. C, PER FBC 6th Edition (2017) U.O.N. 2500 PSF (CONTRACTOR TO CONFIRM WITH GEOTECHNICAL 1.17 ALLOWABLE SOIL PRESSURE ENGINEER AND CONTACT EOR IF SOIL CONDITIONS ARE DIFFERENT

2.1 PREPARE SITE & COMPACT BEARING SOIL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT. PREPARED SPECIFICALLY FOR THIS PROJECT. ENGINEER ASSUMES NO RESPONSIBILITY FOR SETTLEMENT OR OTHER FOUNDATION ISSUES DUE TO FAILURE OF OWNER OR CONTRACTOR TO PERFORM THE NECESSARY GEOTECHNICAL INVESTIGATION.

- SUBMITTALS FOR REVIEW
- 3.1.1 SHOP DRAWINGS: INDICATE BAR SIZES, SPACINGS, LOCATIONS, AND QUANTITIES OF REINFORCING STEEL AND WIRE FABRIC, BENDING AND CUTTING SCHEDULES, AND SUPPORTING AND SPACING
- 3.1.2 MANUFACTURER'S CERTIFICATE: CERTIFY THAT PRODUCTS MEET OR EXCEED SPECIFIED
- PERFORM WORK IN ACCORDANCE WITH CRSI 63 AND MANUAL OF PRACTICE, ACI 301, ACI SP-66 AND ACI 318. MAINTAIN ONE COPY OF EACH DOCUMENT ON SITE. REINFORCEMENT
- 3.3.1 REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60, LATEST REVISION, WITH SUPPLEMENT (S1), MARKED "S".
- 3.3.2 STIRRUP STEEL: ASTM A82.
- 3.3.3 WELDED STEEL WIRE FABRIC: ASTM A185 PLAIN TYPE INSTALL ON BRICKS OR BOLSTERS AT MID-DEPTH OF SLAB.
- ACCESSORIES
- 3.4.1 TIE WIRE: MINIMUM 16 GAGE ANNEALED TYPES.
- 3.4.2 CHAIRS, BOLSTERS, BAR SUPPORTS, SPACERS: SIZED AND SHAPED FOR STRENGTH AND SUPPORT OF REINFORCEMENT DURING CONCRETE PLACEMENT CONDITIONS INCLUDING LOAD BEARING PAD ON BOTTOM TO PREVENT VAPOR BARRIER PUNCTURE.
- 3.5 FABRICATION
- 3.5.1 FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ASTM A184.
- 3.5.2 LOCATE REINFORCING SPLICES NOT INDICATED ON DRAWINGS, AT POINT OF MINIMUM STRESS. REVIEW LOCATION OF SPLICES WITH ENGINEER.

LENGTH OF LAP SPLICES AND BAR EMBEDMENT SHALL BE AS SHOWN IN TABLE, UNLESS

MINIMUM COLOC LENGTH FOR REFORMED DADC							
MINIMUM SPLICE LENGTH FOR DEFORMED BARS							
		3000 PSI		4000 PSI			
		CLASS A	CLASS B	CLASS A	CLASS B		
T<12"	#6 OR LESS	44Db	57Db	38Db	49Db		
	#7 OR MORE	55Db	71Db	47Db	61Db		
T>12"	#6 OR LESS	57Db	74Db	50Db	65Db		
	#7 OR MORE	71Db	81Db	61Db	79Db		

"T" IS DEPTH OF CONCRETE UNDER BARS

- 3.5.3 PROVIDE STANDARD HOOKS AT DISCONTINUOUS ENDS OF TOP BARS.
- 3.5.4 AT CHANGES IN DIRECTION OF CONCRETE WALLS AND TIE BEAMS, PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL STEEL.
- 3.6.1 PLACE, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. DO NOT DEVIATE FROM
- REQUIRED POSITION.

PLACEMENT

- 3.6.2 DO NOT DISPLACE OR DAMAGE VAPOR BARRIER.
- 3.6.3 ACCOMMODATE PLACEMENT OF FORMED OPENINGS.
- 3.6.4 MAINTAIN CONCRETE COVER AS INDICATED ON DESIGN DRAWINGS.
- 3.6.5 WHERE BEAM REINFORCING IS SHOWN CONTINUOUS, SPLICE BOTTOM BARS OVER SUPPORT AND TOP BARS AT CENTER OF SPAN.
- 3.6.6 WHERE PIPING PENETRATES CONCRETE BEAMS, PLACE TWO #3 STIRRUPS @ 3" O.C. EACH SIDE OF PIPE, UNLESS OTHERWISE NOTED.

- 4.1 SUBMITTALS FOR REVIEW
- 4.1.1 PRODUCT DATA: SUBMIT CONCRETE DESIGN MIXES FOR APPROVAL.
- 4.2 SUBMITTALS AT PROJECT CLOSEOUT 4.2.1 ACCURATELY RECORD ACTUAL LOCATIONS OF EMBEDDED UTILITIES AND
- COMPONENTS WHICH ARE CONCEALED FROM VIEW.
- 4.3 QUALITY ASSURANCE
- 4.3.1 PERFORM WORK IN ACCORDANCE WITH ACI 301. 4.3.2 MAINTAIN ONE COPY OF EACH DOCUMENT ON SITE.
- 4.3.3 ACQUIRE CEMENT AND AGGREGATE FROM SAME SOURCE FOR ALL WORK.
- 4.3.4 CONFORM TO ACI 305R WHEN CONCRETING DURING HOT WEATHER. 4.3.5 CONFORM TO ACI 306R WHEN CONCRETING DURING COLD WEATHER.
- 4.4 CONCRETE MATERIALS
- 4.4.1 CEMENT: ASTM C150, TYPE II MODERATE.
- 4.4.2 FINE AND COARSE AGGREGATES: ASTM C33. 4.4.3 WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE.

- 4.5 ADMIXTURES
- 4.5.1 AIR ENTRAINMENT: ASTM C260.
- 4.5.2 CHEMICAL: ASTM C494 TYPE A-WATER REDUCING; TYPE B-RETARDING; TYPE C-ACCELERATING; TYPE D-WATER REDUCING AND RETARDING; TYPE E-WATER REDUCING AND ACCELERATING; TYPE F-WATER REDUCING, HIGH RANGE; TYPE G-WATER REDUCING, HIGH RANGE AND RETARDING. 4.5.3 FLY ASH: ASTM C618 CLASS A.
- 4.6 ACCESSORIES
- 4.6.1 BONDING AGENT: POLYMER RESIN EMULSION OR POLYVINYL ACETATE. 4.6.2 VAPOR RETARDER: 10 MIL THICK CLEAR POLYETHYLENE FILM TYPE RECOMMENDED FOR BELOW
- 4.6.3 NON-SHRINK GROUT: PREMIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS; CAPABLE OF DEVELOPING MINIMUM COMPRESSIVE STRENGTH OF 2,400 PSI IN 48 HOURS AND 7,000 PSI IN 28 DAYS. VIBROPRUF #11, BY LAMBERT CORPORATION OR APPROVED EQUAL.
- CONCRETE MIX 4.7.1 MIX CONCRETE IN ACCORDANCE WITH ACI 304. DELIVER CONCRETE IN ACCORDANCE WITH ASTM
- 4.7.2 SELECT PROPORTIONS FOR NORMAL WEIGHT CONCRETE IN ACCORDANCE WITH ACI 301 PROVIDE CONCRETE TO THE CRITERIA AS FOLLOWS:

	28 DAY COMP.	SLUMP	W/C RATIO	MAX.
	STRENGTH	(+/- 1)	(MAX.)	AGGREGATE
FOUNDATIONS	3000 PSI	5"	0.48	3/4"
SLABS ON GRADE	3000 PSI	4"	0.45	3/4"
BOND BEAMS	3000 PSI	5 "	0.50	3 [′] /8"
FILLED CELLS (GROUT) ASTM C-476	3000 PSI	8" TO 11"	0.55	3 ['] /8"
CIP CONCRETE BEAMS/WALLS	3500 PSI	5 "	0.48	3 [′] /4"
CIP CONCRETE COLUMNS	3500 PSI	5 "	0.48	3/4"
SUBMIT DESIGN MIXES FOR APPROVA	L AT LEAST ONE	WEEK PRIOR TO	CONCRETE POUR	R. DESIGN

- MIX SUBMITTALS MUST INDICATE PROPOSED LOCATION OR TYPE OF USE. FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.
- 4.7.3 USE ACCELERATING ADMIXTURES IN COLD WEATHER ONLY WHEN APPROVED BY ENGINEER. USE OF ADMIXTURES WILL NOT RELAX COLD WEATHER PLACEMENT REQUIREMENTS
- 4.7.4 USE OF CALCIUM CHLORIDE PROHIBITED. 4.7.5 USE SET RETARDING ADMIXTURES DURING HOT WEATHER ONLY WHEN APPROVED BY ENGINEER.
- 4.7.6 ADD AIR ENTRAINING AGENT TO NORMAL WEIGHT CONCRETE MIX FOR WORK EXPOSED TO EXTERIOR. 4.7.7 FLY ASH CONTENT NOT TO EXCEED 20 % OF CEMENTITIOUS MATERIAL BY WEIGHT.
- VERIFY SITE CONDITIONS PRIOR TO PLACING CONCRETE
- VERIFY REQUIREMENTS FOR CONCRETE COVER OVER REINFORCEMENT 4.10 PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS OTHERWISE NOTED:
 - LOCATION AND CONDITION: MINIMUM COVER: A. CONCRETE CAST AGAINST AND ALL BARS 3"
 - PERMANENTLY EXPOSED TO EARTH B. CONCRETE EXPOSED
- #6 OR GREATER 2" TO EARTH OR WEATHER #5 OR SMALLER 1-1/2" C. CONCRETE NOT EXPOSED TO
- WEATHER OR IN CONTACT WITH GROUND #11 OR SMALLER 3/4" 1. SLABS, WALLS, AND JOISTS 2. BEAMS AND COLUMNS: #14-#18 1-1/2" (PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS)

 ALL BARS 1-1/2"
- 4.11 VERIFY THAT ANCHORS, SEATS, PLATES, REINFORCEMENT AND OTHER ITEMS TO BE CAST INTO CONCRETE ARE ACCURATELY PLACED, POSITIONED SECURELY, AND WILL NOT CAUSE HARDSHIP IN PLACING CONCRETE.
- 4.12 PREPARATION
- 4.12.1 PREPARE PREVIOUSLY PLACED CONCRETE BY CLEANING WITH STEEL BRUSH AND APPLYING BONDING AGENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 4.12.2 COORDINATE THE PLACEMENT OF JOINT DEVICES WITH ERECTION OF CONCRETE FORMWORK AND PLACEMENT OF FORM ACCESSORIES.
- 4.13 PLACING CONCRETE
- 4.13.1 PLACE CONCRETE IN ACCORDANCE WITH ACI 304.
- 4.13.2 NOTIFY ENGINEER MINIMUM 24 HOURS PRIOR TO COMMENCEMENT OF OPERATIONS TO ALLOW INSPECTION OF FORMWORK, REBAR REPLACEMENT AND CONFORMANCE WITH CONTRACT SPECIFICATIONS. DO NOT CALL FOR INSPECTION UNLESS ALL PREPARATIONS ARE COMPLETE ENSURE REINFORCEMENT, INSERTS, EMBEDDED PARTS, FORMED EXPANSION AND CONTRACTION JOINTS, AND ARE NOT DISTURBED DURING CONCRETE PLACEMENT.
- 4.13.3 INSTALL VAPOR RETARDER UNDER INTERIOR SLABS ON GRADE. LAP JOINTS MINIMUM 6 INCHES AND SEAL WATERTIGHT BY TAPING EDGES AND ENDS. 4.13.4 REPAIR VAPOR RETARDER DAMAGED DURING PLACEMENT OF CONCRETE REINFORCING. REPAIR WITH VAPOR RETARDER MATERIAL: LAP OVER DAMAGED AREAS MINIMUM 6 INCHES AND SEAL
- 4.13.5 MAINTAIN RECORDS OF CONCRETE PLACEMENT. RECORD DATE, LOCATION, QUANTITY, AIR
- TEMPERATURE, AND TEST SAMPLES TAKEN. 4.13.6 PLACE CONCRETE CONTINUOUSLY BETWEEN PREDETERMINED EXPANSION, CONTROL, AND CONSTRUCTION JOINTS.
- 4.13.7 DO NOT INTERRUPT SUCCESSIVE PLACEMENT; DO NOT PERMIT COLD JOINTS TO OCCUR.
- 4.13.8 SCREED SLABS ON GRADE LEVEL, MAINTAINING SURFACE FLATNESS OF MAXIMUM 1/4 INCH IN 10 FT.; PROVIDE FINAL FLOOR FINISH PER REQUIREMENTS SPECIFIED UNDER CONCRETE FINISHING.
- 4.14.1 PROVIDE FORMED CONCRETE SURFACES TO BE LEFT EXPOSED CONCRETE WITH SACK RUBBED
- 4.14.2 FINISH CONCRETE FLOOR SURFACES IN ACCORDANCE WITH ACI 301. 4.14.3 WOOD FLOAT SURFACES WHICH WILL RECEIVE CERAMIC TILE WITH FULL BED SETTING SYSTEM. STEEL TROWEL SURFACES WHICH WILL RECEIVE CARPETING, RESILIENT FLOORING OR THIN SET
- CERAMIC TILE. 4.14.4 STEEL TROWEL SURFACES WHICH ARE SCHEDULED TO BE EXPOSED.
- 4.14.5 PROVIDE NONSLIP BROOM FINISH TO EXTERIOR CONCRETE SLABS. PLACE FINISH PERPENDICULAR 4.14.6 IN AREAS WITH FLOOR DRAINS, MAINTAIN FLOOR ELEVATION AT WALLS; PITCH SURFACES UNIFORMLY
- AS INDICATED ON DRAWINGS. 4.14.7 FINISH INTERIOR SLABS ON GRADE ACCORDING TO THE FOLLOWING FF/FL METHODS FOR LOCATIONS
- 4.14.8 SLAB SURFACES TO RECEIVE RESILIENT FLOORING, PAINT, OR OTHER THIN FILM COATING SYSTEM;
- SPECIFIED OVERALL VALUE, FF 36/FL25; MINIMUM LOCAL VALUE FF30/FL22. 4.14.9 SLAB SURFACES TO RECEIVE CARPET; SPECIFIED OVERALL VALUE FF25/FL20; MINIMUM LOCAL
- VALUE FF25/FL20.
- 4.15 CURING AND PROTECTION 4.15.1 IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY.
- 4.15.2 MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE. 4.15.3 CURE FLOOR SURFACES IN ACCORDANCE WITH ACI 308.
- 4.15.4 PONDING: MAINTAIN 100 PERCENT COVERAGE OF WATER OVER FLOOR SLAB AREAS CONTINUOUSLY FOR 4 DAYS.
- 4.15.5 SPRAYING: SPRAY WATER OVER FLOOR SLAB AREAS AND MAINTAIN WET FOR 7 DAYS. 4.15.6 MEMBRANE CURING COMPOUND: APPLY CURING COMPOUND TO CONCRETE AS SOON AS FINAL

FINISHING OPERATIONS ARE COMPLETE. APPLY ACCORDING TO MANUFACTURER'S

- RECOMMENDATIONS. USE MEMBRANE CURING COMPOUNDS THAT WILL NOT AFFECT SURFACES TO BE COVERED WITH FINISH MATERIALS APPLIED DIRECTLY TO CONCRETE. 4.15.7 MOISTURE-RETAINING COVER: COVER CONCRETE SURFACES WITH MOISTURE-RETAINING COVER FOR
- CURING CONCRETE, PLACED IN WIDEST PRACTICAL WIDTH WITH SIDES AND ENDS LAPPED AT LEAST THREE INCHES (3") AND SEALED BY WATERPROOF TAPE OR ADHESIVE. IMMEDIATELY REPAIR ANY HOLES OR TEARS DURING CURING PERIOD USING COVER MATERIAL AND WATERPROOF TAPE. 4.15.8 CURING FORMED SURFACES: CURE FORMED SURFACE, INCLUDING UNDERSIDES OF BEAMS, COLUMNS,
- SUPPORTED SLABS, AND OTHER SIMILAR SURFACES BY MOIST CURING WITH FORMS IN PLACE FOR FULL CURING PERIOD OR UNTIL FORMS ARE REMOVED. IF FORMS ARE REMOVED, CONTINUE CURING BY MEMBRANE-CURING COMPOUND, MOISTURE-RETAINING COVER; OR WATER SPRAY AND MOISTURE-RETAINING COVER.

- 4.16 FIELD QUALITY CONTROL 4.16.1 FIELD INSPECTION AND TESTING WILL BE PERFORMED IN ACCORDANCE WITH ACI 301. PROVIDE
- FREE ACCESS TO WORK AND COOPERATE WITH APPOINTED FIRM. 4.16.2 SUBMIT PROPOSED MIX DESIGN OF EACH CLASS OF CONCRETE TO ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.
- 4.16.3 TESTS OF CEMENT AND AGGREGATES MAY BE PERFORMED TO ENSURE CONFORMANCE WITH
- 4.16.4 THREE CONCRETE TEST CYLINDERS WILL BE TAKEN FOR EVERY 75 OR LESS CU YDS OF EACH CLASS OF CONCRETE PLACED
- 4.16.5 ONE ADDITIONAL TEST CYLINDER WILL BE TAKEN DURING COLD WEATHER CONCRETING, CURED ON
- JOB SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS.
- 4.16.6 ONE SLUMP TEST WILL BE TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN.
- 4.17.1 ALLOW ENGINEER TO INSPECT CONCRETE SURFACES IMMEDIATELY UPON REMOVAL OF FORMS
- 4.1.2 EXCESSIVE HONEYCOMB OR EMBEDDED DEBRIS IN CONCRETE IS NOT ACCEPTABLE. NOTIFY
- ENGINEER UPON DISCOVERY.
- 4.17.3 PATCH IMPERFECTIONS AS DIRECTED. 4.18 DEFECTIVE CONCRETE
- 4.18.1 DEFECTIVE CONCRETE: CONCRETE NOT CONFORMING TO REQUIRED LINES, DETAILS, DIMENSIONS TOLERANCES OR SPECIFIED REQUIREMENTS.
- 4.18.2 REPAIR OR REPLACEMENT OF DEFECTIVE CONCRETE WILL BE DETERMINED BY THE ENGINEER
- 4.18.3 DO NOT PATCH, FILL, TOUCH-UP, REPAIR, OR REPLACE EXPOSED CONCRETE EXCEPT UPON EXPRESS
- DIRECTION OF ENGINEER FOR EACH INDIVIDUAL AREA. THE CONTRACTOR, AT HIS OPTION, MAY SUBSTITUTE SYNTHETIC FIBER REINFORCING IN LIEU OF WELDED WIRE FABRIC FOR CONCRETE SLABS ON GRADE. THE SYNTHETIC FIBER REINFORCING SHALL BE ADDED TO THE CONCRETE MIX AT A MINIMUM RATE OF 1.5 LBS OF FIBER PER CUBIC YARD OF CONCRETE, OR AS SPECIFIED BY THE FIBER MANUFACTURER FOR CONTROL OF SHRINKAGE AND TEMPERATURE CRACKING, WHICHEVER IS GREATER. HOWEVER, THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR CRACKING OF ANY SLABS UTILIZING SYNTHETIC FIBERS IN LIEU OF WELDED WIRE FABRIC.

10.0 RETRO-FIT ANCHORS

- ALL POST-INSTALLED ANCHORS SHALL BE EPOXY ADHESIVE TYPE WITH A307 OR A36 THREADED ROD, U.O.N. BRAND AND TYPE OF EPOXY ADHESIVE SHALL BE SIMPSON SET 22 EPOXY. OR HILTI HIT HY 150 EPOXY. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF RECORD. EVALUATION OF SUBSTITUTION REQUESTS WILL INVOLVE ADDITIONAL
- ENGINEERING TIME, AND POSSIBLE REDESIGN OF CONNECTIONS, WHICH WILL AFFECT OTHER TRADES 10.2 INSTALLATION OF ANCHORS SHALL STRICTLY FOLLOW ALL MANUFACTURER'S WRITTEN SPECIFICATIONS AND RECOMMENDATIONS. ALL DRILLED HOLE PREPARATIONS REQUIRED TO ACHIEVE FULL DESIGN STRENGTH SHALL BE FOLLOWED.

SHOWN ON DRAWING, EMBED DEPTH SHALL BE AS SPECIFIED BY EPOXY MANUFACTURER TO DEVELOP

10.3 NO LOAD SHALL BE APPLIED TO EPOXY ANCHORS PRIOR TO FULL CURE TIME SPECIFIED BY EMBEDMENT DEPTH OF ANCHORS SHALL BE A MINIMUM AS SPECIFIED ON DRAWINGS; OR IF NOT

STRUCTURAL STEE

THE MAXIMUM PUBLISHED BOND STRENGTH.

- 12.1 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.
- FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC "SPECIFICATIONS" FOR THE DESIGN. FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS". 9th EDITION OF THE ALLOWABLE STRESS DESIGN.
- MATERIAL SPECIFICATIONS:
 - ALL STEEL SHALL BE PRODUCED DOMESTICALLY. ROLLED SHAPES. PLATES AND BARS: ASTM A36 EXCEPT
 - WIDE FLANGE SECTIONS SHALL BE ASTM A572. • PIPE: ASTM A53, TYPE E, GRADE B.
 - TUBES: ASTM A500 GRADE B.
- ANCHOR BOLTS, RODS, NUTS AND WASHERS: ASTM A36 • HEADED STUDS: ASTM A108 GRADE 1015 THROUGH 1020,
- COLD FINISHED CARBON STEEL, AWS D1.1, TYPE B. BOLTED STRUCTURAL CONNECTIONS: UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE 3/4"~ ASTM A325, TYPE N
- BOLTS INDICATED LESS THAN 5/8"~ SHALL BE ASTM A307. • WELDED CONNECTIONS: ELECTRODES — E70XX UNO (LOW HYDROGEN). FILLET WELDS SHALL BE 3/16" UNO. 12.4 HIGH-STRENGTH FIELD BOLTED CONNECTIONS SHALL BE
- INSTALLED, TIGHTENED, TESTED AND INSPECTED ACCORDING TO "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" BY RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC). CONNECTIONS SHALL NOT BE CLASSIFIED AS SLIP-CRITICAL (SC) UNLESS INDICATED ON PLANS AS SUCH. "SNUG-TIGHT" AS DEFINED IN THE SPECIFICATION IS SUFFICIENT FOR ALL BOLTED CONNECTIONS UNLESS THE BOLTS IN SUCH A CONNECTION ARE INDICATED AS SLIP CRITICAL (SC). SLIP CRITICAL BOLTS MUST BE FULLY
- TENSIONED PER SPECIFICATION. BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.
- 12.6 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
- GROUT FOR COLUMN BASE PLATES AND PRESET BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT. (5000 PSI MIN)
- DETAILS INCLUDING PROFILES, SIZES, SPACING AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTION ATTACHMENTS, FASTENERS, LOADS AND TOLERANCES. 12.9 ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED

FIRE PROTECTION SHOULD NOT BE PRIMED.

GALVANIZED IN ACCORDANCE WITH ASTM A123. STRUCTURAL

SHALL RECEIVE SHOP COAT OF PRIMER (COLOR AS DIRECTED

BY ARCHITECT) EXCEPT AREAS THAT WILL RECEIVE SPRAY-ON

SUBMIT SHOP DRAWINGS INDICATING ALL SHOP AND ERECTION

145 OPEN EXP C Allowable Stress Design

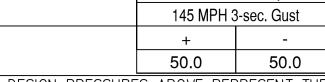
THIS PLAN HAS BEEN DESIGNED TO COMPLY WITH ALL PROVISIONS OF FBC-6TH(2017) INCLUSIVE OF ASCE 7-10 WIND PROVISIONS FOR A NOMINAL DESIGN 3-SECOND GUST OF 145 MPH (Vult) OR 112 MPH (Vasd). AS DEFINED IN SECTION 1609, THIS STRUCTURE DOES MEET THE REQUIREMENTS FOR AN OPEN BUILDING AND AS SUCH HAS BEEN DESIGNED WITH AN INTERNAL PRESSURE COEFFICIENT OF +0.0 AND -0.0, UNADJUSTED FOR ZONES 1, 2 AND 3. DESIGN HAS UTILIZED A WIND IMPORTANCE FACTOR OF 1.00 FOR RISK CATEGORY II IN AN EXPOSURE C AREA WITH A MEAN ROOF HEIGHT OF 30

FEET AND COMPLIES WITH WIND SPEED MAPS AS ADOPTED BY THE LOCAL

ALL STRUCTURAL MEMBERS IN THIS BUILDING HAVE BEEN DESIGNED USING ALLOWABLE STRESS DESIGN METHODS. AS SUCH VASD HAS BEEN USED TO DEVELOP WIND PRESSURES.

ALL BUILDINGS WITHIN WINDBORNE DEBRIS AREAS (Vult > 130 MPH AND < MILE OF COASTLINE, ALL AREAS WHERE VULT > 140 MPH) REQUIRE WIND DEBRIS IMPACT PROTECTION FOR ALL WINDOWS, DOORS AND BUILDING ENVELOP COMPONENTS.

DESIGN WIND PRESSURE (PSF) Ultimate Wind Speed



JURISDICTION.

- DESIGN PRESSURES ABOVE REPRESENT THE NET PRESSURE (SUM OF EXTERNAL AND INTERNAL PRESSURES) APPLIED NORMAL TO ALL SURFACES. COMPONENT MANUFACTURER SHALL USE THE HIGHER OF THE TWO NUMBERS FOR APPLICABLE SQUARE FOOTAGE.

Str.
Nick
Reg.
14 N.
(mpa,
rone

omply with the minimum requirements of The Florida Building Code, Section 1609(6th Ed. - 2017) Plans and specifications have been designed to withstand the design wind speed designated on Sheet S-1(Structural Notes)

hese drawings are valid for 12 months after date they signed and sealed or until the requirements of the Building Code are

unless noted otherwise on this sheet.

Il signed and sealed drawings are signed and sealed for the structural portions of the drawings only. All other information Architectural, Electrical, Mechanical, Plumbing, Dimensional, et re for visual reference only and are not covered under this se

is the Contractors responsibility to review all drawings befo onstruction begins. The Engineer of Record is responsible for the structural integrity of this project only. Any discrepency between field conditions, other design professionals' shop drawings, Contractors' building methods, and these construct documents must be brought to the attention of the Engineer Record prior to the commencement of construction. When su screpencies exist, Engineer of Record is not responsible for

ontractor must verify all dimensions prior to start of any onstruction. Contractor must submit all shop drawing ocuments as specified in these drawings prior to the start ny construction and is solely responsible for related omponents if installed without appropriate shop drawing revi

ADDITIONS/RENOVATIONS he Engineer of Record is responsible for the proposed change o the original structure shown on these pages only. The Engineer of Record is not responsible for existing structural ystems or components.

ELECTRONIC SIGNATURES An electronic signature by the Engineer of Record does not certify any non-structural information. Non-structural sheets (Mechanical, Electrical, Plumbing, Site, Building Sections, Elevations, Waterproofing, Architectural, Florida Product Approval, Dimensional, etc...) are not covered by Engineer of Record seal. Sheets that provide bo structural and non-structural infomation are certified solely for the structural information presented on them. Non-structural sheets are

oted as such and are not covered in any way by this seal. S 0 0

JOB NUMBER 20180193 DATE AUGUST 28, 2018

S1

SCALE: SHEET NUMBER

DRAWN BY:

MI ROUL No 52585 October 29,2018

"AS M BA ... OR19. ONAL William III

