

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 7th day of June, 2016, Commissioners Court came on to be heard and reviewed the accompanying notice of A&F General Contractors, LLC.
 Job Location 22031 Bellaire Boulevard, Richmond, TX 77407
 Date 5/25/2016 Bond No. 6001093, Permit No. 2016-7255 to make use of certain Fort Bend County property subject to, "A Revised Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas the 3rd day of August, 1987, recorded in Volume _____ of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's Texas Civil Statutes. Upon Motion of Commissioner Meyers, seconded by Commissioner Patterson, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. when construction is completed and ready for final inspection
 Mail notices to: Permit Administrator
 Fort Bend County Engineering
 301 Jackson Street
 Richmond, Texas 77469
 281-633-7500
3. This permit expires one (1) year from date of permit if construction has not commenced.

By: Charles O. [Signature]
 for County Engineer

By: N/A
 Drainage District Engineer/Manager

Presented to Commissioners Court and approved.
 Recorded in Volume 47114 12U
 Minutes of Commissioners Court

Clerk of Commissioners Court
 By: [Signature]
 Deputy **RENEE MICHULKA**

**PERPETUAL BOND COVERING CABLE, CONDUIT AND/OR POLE LINE
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROADS
(AUTHORIZED)**

BOND NO 6001093
THE STATE OF TEXAS §
COUNTY OF FORT BEND §

KNOW ALL MEN BY THESE PRESENTS:

THAT WE, A&F General Contractors LLC whose address is 21175 Tomball Parkway #363 Houston, TX 77070 as **Principal**, and SureTec Insurance Company, a Corporation existing under and by virtue of the laws of the State of Texas and authorized to do an indemnifying business in the State of Texas, and whose principal office is located at 1330 Post Oak Blvd., Suite 1100 Houston, TX 77056, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said State is Steven D. Nelson and whose address is 9737 Great Hills Trail, Suite 320, Austin, TX 78759, hereinafter called the Surety, are held and firmly bound unto, **Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, in the full sum of Five Thousand Dollars (\$ 5,000.00) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done, we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal representatives, jointly and severally, by these presents.**

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying, constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along roads, streets and highways in the County of Fort Bend, and the State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners' Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and made a part hereof for all purposes as though fully set out herein.

AND WHEREAS, the principal desires to provide Fort Bend County with a perpetual bond covering all such cable, conduit and/or pole line activity;

NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line activity (including, but not limited to the laying, constructing, maintaining and/or repair of cables, conduits and/or pole lines) in, under, across and/or along roads, streets and highways in the County of Fort Bend and State of Texas, under the jurisdiction of the Commissioners Court of Fort Bend County, Texas, pursuant to and in accordance with minimum requirements and conditions of the above mentioned Commissioners' Court order set forth and specified to be by said principal done and performed, at the time and in the manner therein specified, and shall pay over and make good and reimburse Fort Bend County, all loss and damages which Fort Bend County may sustain by reason of any failure or default on the part of said principal, then this obligation shall be null and void otherwise to remain in full force and effect.

This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further and/or additional bonds of the principal.

EXECUTED this 20th day of May, 2016.

A&F General Contractors LLC

PRINCIPAL

David Finch

BY

SureTec Insurance Company

SURETY

Xenia Chavez
BY Xenia Chavez Attorney in Fact

SureTec Insurance Company
THIS BOND RIDER CONTAINS IMPORTANT COVERAGE INFORMATION

Statutory Complaint Notice/Filing of Claims

To obtain information or make a complaint: You may call the Surety's toll free telephone number for information or to make a complaint or file a claim at: 1-866-732-0099. You may also write to the Surety at:

SureTec Insurance Company
9737 Great Hills Trail, Suite 320
Austin, Tx 78759

You may contact the Texas Department of Insurance to obtain information on companies, coverage, rights or complaints at 1-800-252-3439. You may write the Texas Department of Insurance at

PO Box 149104
Austin, TX 78714-9104
Fax#: 512-490-1007
Web: <http://www.tdi.state.tx.us>
Email: ConsumerProtection@tdi.texas.gov

PREMIUM OR CLAIM DISPUTES: Should you have a dispute concerning your premium or about a claim, you should contact the Surety first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

SureTec Insurance Company

LIMITED POWER OF ATTORNEY

Know All Men by These Presents, That SURETEC INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Texas, and having its principal office in Houston, Harris County, Texas, does by these presents make, constitute and appoint

Xenia Chavez

its true and lawful Attorney-in-fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include waivers to the conditions of contracts and consents of surety for:

- Principal:** A&F General Contractors LLC
- Obligee:** Fort Bend County Judge
- Amount:** \$ 5,000.00

and to bind the Company thereby as fully and to the same extent as if such bond were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney-in-Fact may do in the premises. Said appointment is made under and by authority of the following resolutions of the Board of Directors of the SureTec Insurance Company:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and of behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached. (Adopted at a meeting held on 20th of April, 1999.)

In Witness Whereof, SURETEC INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 21st day of March, A.D. 2013.

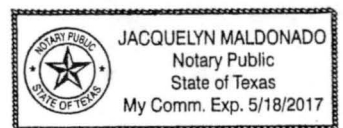
SURETEC INSURANCE COMPANY

By: John Knox Jr., President



State of Texas ss:
County of Harris

On this 21st day of March, A.D. 2013 before me personally came John Knox Jr., to me known, who, being by me duly sworn, did depose and say, that he resides in Houston, Texas, that he is President of SURETEC INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.

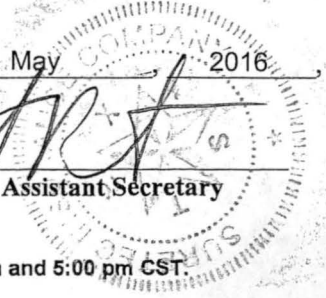


Jacquelyn Maldonado, Notary Public
My commission expires May 18, 2017

I, M. Brent Beaty, Assistant Secretary of SURETEC INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; and furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

Given under my hand and the seal of said Company at Houston, Texas this 20th day of May, 2016, A.D.

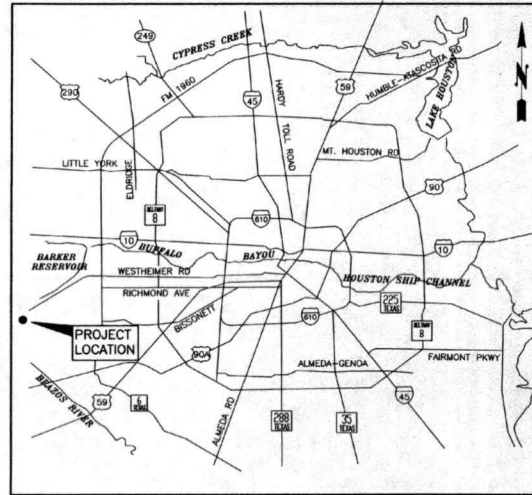
M. Brent Beaty, Assistant Secretary



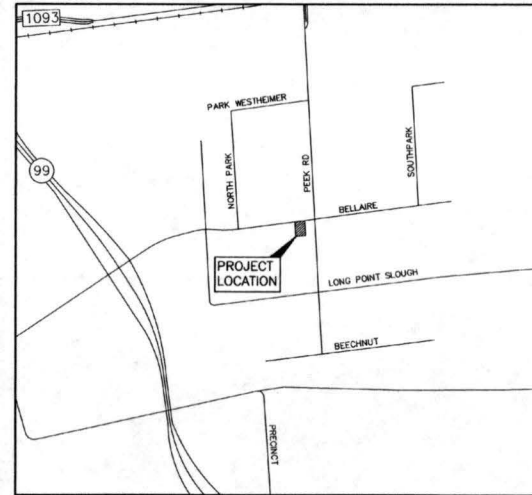
PLANS FOR CONSTRUCTION OF PRIVATE SITE WORK TO SERVE KIDDIE ACADEMY 22031 BELLAIRE BOULEVARD FORT BEND COUNTY, TEXAS 77407

ARCHITECT: **BAKER & ASSOCIATES ARCHITECTS**
673 HIGH STREET, SUITE 204
WORTHINGTON, OHIO 43085
PHONE: (614) 436-0555

ENGINEER:
TERRA
ASSOCIATES, INC.
CONSULTING ENGINEERS
1445 N. LOOP WEST - SUITE 450
HOUSTON, TEXAS 77008
713-963-0333
TBPE Registration No.: F-003832



**GREATER HOUSTON AREA
AREA MAP
NOT-TO-SCALE**



**FORT BEND COUNTY, TEXAS
LOCATION MAP
NOT-TO-SCALE
KEY MAP No. 525 L**

SHEET	TITLE
C1	COVER SHEET
C2	CONSTRUCTION NOTES
C3	EXISTING CONDITIONS & DEMOLITION PLAN
C4	DIMENSIONED SITE PLAN
C5	SITE GRADING PLAN
C6	SITE DRAINAGE PLAN
C7	DRAINAGE AREA MAP & CALCULATIONS
C8	OFFSITE DRAINAGE DITCH & OVERALL DETENTION
C9	SITE UTILITY PLAN
C10	SITE PAVING PLAN
C11	STORM WATER POLLUTION PREVENTION PLAN
C12	STORM WATER POLLUTION PREVENTION DETAILS
C13	SITE UTILITY DETAILS
C14	SITE PAVING DETAILS (1 OF 2)
C15	SITE PAVING DETAILS (2 OF 2)
L1.1	LANDSCAPE PLAN
L2.1	IRRIGATION PLAN
L3.1	LANDSCAPE DETAILS
L4.1	IRRIGATION DETAILS

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
(713)223-4567 (in Houston)
(New Statewide Number Outside Houston)
1-800-545-8005

ACCORDING TO THE FEDERAL MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP NO. 48201C0592N, MAP REVISED JUNE 18, 2007, THE SUBJECT PROPERTY LIES IN ZONE "X" UNSHADED (AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN).

TERRA
ASSOCIATES, INC.
CONSULTING ENGINEERS
1445 N. LOOP WEST - SUITE 450
HOUSTON, TEXAS 77008
713-963-0333
TBPE Registration No.: F-003832

TAI PROJECT No. 0054-1402
CONTRACT No. 1
APRIL 4, 2016

FORT BEND COUNTY ENGINEER
ENGINEER: *Paul D. Stange, PE, PWS*
PWS Richard W. Stollens, PE
DATE: 4/23/16
THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.
APPROVED: *Maggie Dea*
Development Coordinator
DATE: 4/28/16

David J. [Signature]

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BAKER & ASSOCIATES, P.E. NUMBER 04 APRIL 4, 2016.

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL NOTIFY THE "REGULATORY UTILITY COORDINATION COMMITTEE" (TELEPHONE NO. 713-223-4067) 48 HOURS BEFORE STARTING WORK IN STREET RIGHTS-OF-WAY FOR EASEMENTS.
2. CONTRACTOR SHALL VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION AND SHALL REPORT DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
3. LOCATIONS OF EXISTING UTILITIES FOR WATERLINE, STORM SEWERS, SANITARY SEWERS, GAS LINES AND UNDERGROUND TELEPHONE CABLE AND POWER LINES ARE APPROXIMATE AND ARE BASED UPON INFORMATION OBTAINED FROM FORT BEND COUNTY, UTILITY COMPANIES, AND TOPOGRAPHIC SURVEY.
4. ADEQUATE PROTECTION SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DAMAGE TO OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE FINAL GRANT OF STORM WATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES AS PREPARED BY HARRIS COUNTY AND THE CITY OF HOUSTON. ALL IN COMPLIANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS.
5. CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE FACILITIES TO DRAIN EXCESS DRAINAGE AWAY FROM TRENCHES AND TOWARDS OFF SITE DRAINAGE FACILITIES. PREVENT WATER FROM FLOWING ON SIDE AND DO NOT BLOCK DRAINAGE FROM OR EXCESS DRAINAGE ON TO ADJACENT PROPERTY.
6. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES, PROPERTY, AND UNDERGROUND UTILITIES, AND SHALL REPAIR ANY DAMAGE TO THE SATISFACTION OF THE BRANDED PARTY AT NO ADDITIONAL COST TO THE OWNER.
7. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING WATER LINES, WASTEWATER COLLECTION SYSTEM FACILITIES, AND OTHER UTILITIES. ALL DAMAGE SHALL BE REPAIRED IN ACCORDANCE WITH FORT BEND COUNTY AND FWC MAJ 00 STANDARDS, WITH NO COST TO THE OWNER.
8. EXISTING FACILITIES, CURBS, SIDEWALKS, AND DRIVEWAYS WITH PUBLIC RIGHTS-OF-WAY WHICH HAVE BEEN DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE ORIGINAL CONDITION OR BETTER.
9. CONTRACTOR SHALL CONSTRUCT ALL GRAVITY SEWER LINES COMMENCING AT THE LOWEST ELEVATION AND PROCEED IN THE UPSTREAM DIRECTION. CONTRACTOR SHALL VERIFY CLEARANCES WITH ALL UNDERGROUND OBSTRUCTIONS BEFORE LAYING PIPES.
10. EXCAVATE ALL TRENCHES EVENLY TO LINE AND GRADE SHOWN.
11. CONTRACTOR SHALL KEEP TRENCH OPEN AT ALL TIMES AND SHALL PROVIDE AUTOMATIC OR CONDUIT INCH PUMPS, AND WELL POINTS, IF NECESSARY TO OBTAIN DRY BEDDING CONDITIONS.
12. CONTRACTOR SHALL KEEP TRENCHES, PIPE BEDDING AND BACKFILL FREE OF DEBRIS.
13. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING TRENCHING AND SHORING.
14. BEFORE COST OF REMOVAL AND BACKFILL OF TYPICAL FRESH WATER LINES, SANITARY SEWERS, AND STORM SEWERS IN UNITS PRICE BID FOR PIPE, UNLESS OTHERWISE NOTED.
15. ALL MATERIALS FOR PROPOSED CONSTRUCTION OR REPAIR OF EXISTING FACILITIES SHALL BE NEW PRODUCTS SHIPPED FROM THE FACTORY AND FREE FROM DEFECTS. ALL MATERIALS SHALL BE PROVIDED TO THE PROJECT AND PROTECTED AS NECESSARY TO MAINTAIN THE INTEGRITY OF THE CONTRACTOR SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSAL OF PROPERLY BY THE CONTRACTOR.
16. WASTE MATERIALS INCLUDING PAYMENT REMOVED DURING CONSTRUCTION, WATER PIPING AND SANITARY CONSTRUCTION DEBRIS AND EXCESS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSAL OF PROPERLY BY THE CONTRACTOR.
17. STREETS, SIDEWALKS, SIDEWALKS, PAVING, WATER LINES, WASTEWATER COLLECTION SYSTEMS, AND DRAINAGE SYSTEMS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH FORT BEND COUNTY AND FWC MAJ 00 STANDARDS.
18. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION.
19. CONTRACTOR SHALL HAVE A COPY OF ALL DRAWING PERMITS ON SITE AT ALL TIMES DURING CONSTRUCTION OF DUES AND DRIVEWAY CURBS.
20. CONTRACTOR SHALL NOTIFY THE UTILITY OPERATORS, SUPERINTENDENTS, AND PERSONS IN CHARGE OF PUBLIC PRIVATE UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO STARTING WORK.
21. THE CONTRACTOR SHALL NOTIFY THE UTILITY OPERATOR SOUTHWEST WATER CORP. (PREF-187) (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION.
22. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, AND PERSONS IN CHARGE OF PUBLIC AND PRIVATE UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO STARTING WORK, INCLUDING:
 - A. THE CONTRACTOR SHALL NOTIFY FORT BEND COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT - ENGINEERING DIVISION - SEVENTY-THREE (73) HOURS IN ADVANCE OF COMMENCING UTILITY AND/OR PAVING CONSTRUCTION.
 - B. THE CONTRACTOR SHALL NOTIFY THE UTILITY OPERATOR SEVENTY SEVEN SERVICES FOR FWC MAJ 00 FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION.
 - C. THE CONTRACTOR SHALL NOTIFY THE UTILITY OPERATOR SEVENTY SEVEN SERVICES FOR FWC MAJ 00 FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION.
23. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY THE REGULATORS OF FORT BEND COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT PRIOR TO STARTING CONSTRUCTION.
24. OWNER TO OBTAIN ALL PERMITS REQUIRED BY FORT BEND COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CURBS WITHIN FORT BEND COUNTY BEANS ROAD RIGHTS-OF-WAY.

CENTERPOINT ENERGY NOTES

- CAUTION: UNDERGROUND GAS FACILITIES**
- LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, ILC, WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR OPINION ON THESE LINES IS ONLY THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONSULT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4067, 1-800-669-8344 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.
- A. WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 845-8036 OR (713) 845-8037 (7:00AM TO 4:30 PM) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
 - B. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY MAIN LINES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
 - C. WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT STRESS MUST BE PROVIDED TO THE FACILITIES TO PREVENT COLLAPSE OF THE PIPING.
 - D. FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-3552 OR (713) 207-4200.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

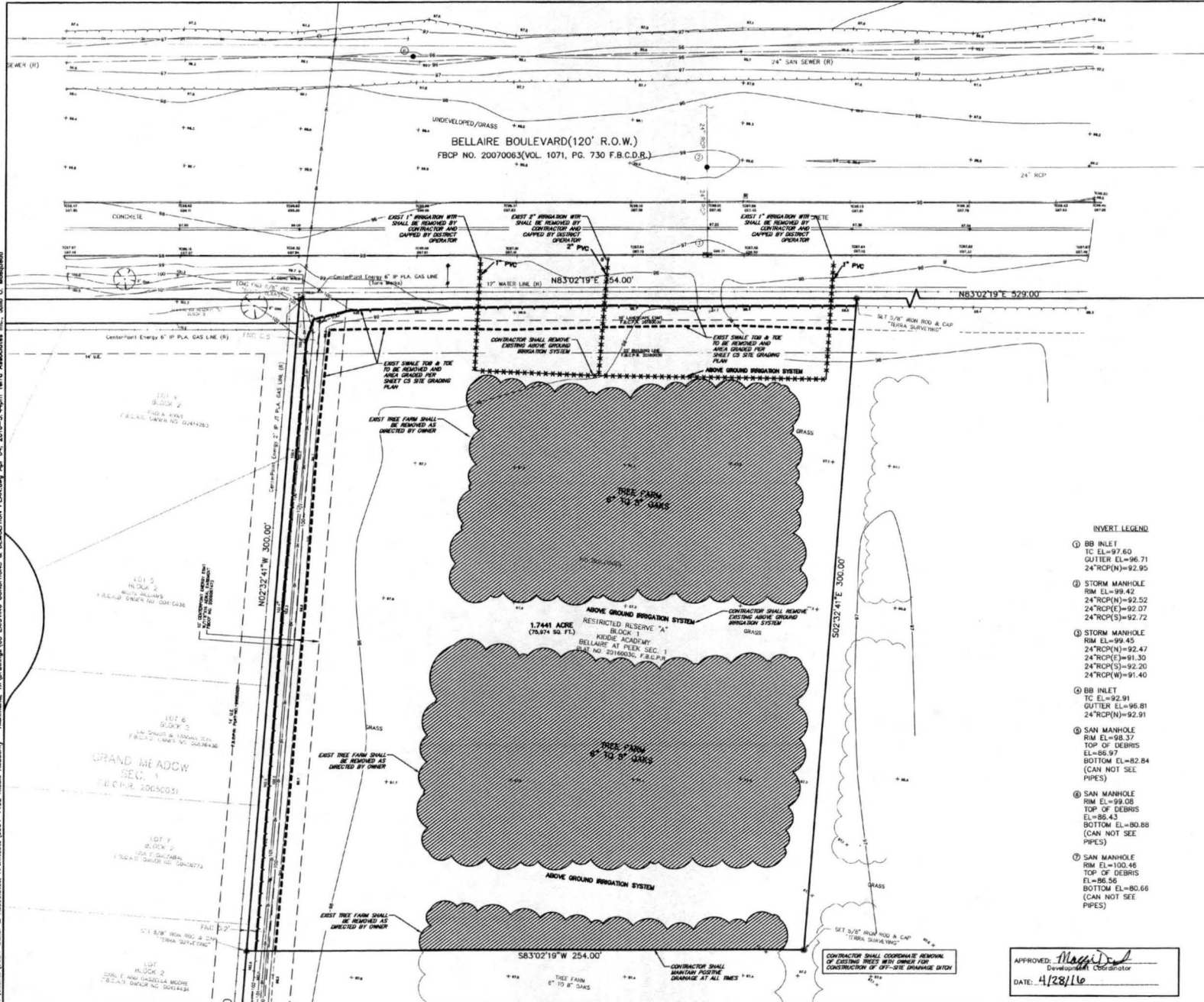
WARNING: OVERHEAD ELECTRICAL FACILITIES

- OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS BEEN DETERMINED ON THESE DRAWINGS AS LINES ARE CLEARLY VISIBLE. YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 72A, HEALTH & SAFETY CODE, FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:
- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES;
 - OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES;
- PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO OBTAIN FURTHER INFORMATION, YOU SHOULD CALL CENTERPOINT ENERGY AT (713) 207-2462.
- ACTIVITIES ON/OVER ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY IS NOT APPROVAL. TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS OBTAIN IF YOU NEED TO USE OR OCCUPY CENTERPOINT PROPERTY. PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713)207-6248 OR (713)207-5769.

PIPE PLUMBING CONSTRUCTION NOTES

1. GENERAL CONSTRUCTION NOTES APPLY TO SITE PLUMBING.
2. WATER LINES, WASTEWATER COLLECTION SYSTEMS, AND STORM DRAINAGE SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY AND FWC MAJ 00 STANDARDS.
3. TOP OF PROPOSED MANHOLE, VALVE BOXES, ETC. SHALL BE SET TO MATCH FINISHED GRADE OR PROPOSED TOP OF PAVEMENT TOP OF EXISTING OR PROPOSED VALVE BOXES, ETC. SHALL BE HEAVILY REINFORCED. PROPOSED BODIES TO MATCH FINISHED GRADE OR PROPOSED TOP OF PAVEMENT.
4. ALL TRENCHES, INLETS, MANHOLES, CLEANOUTS, ETC., UNDER OR WITHIN FIVE FEET OF PAVEMENT SHALL BE BACKFILLED WITH COMPACTED SAND OR GRANULAR FILL. ALL LIFTS NOT EXCEEDING 8-INCHES IN DEPTH AND COMPACTED TO 95% STANDARD PENetration DENSITY. CONTRACTOR SHALL PROVIDE COMPACTED SAND OR GRANULAR FILL WITH COMPACTED CEMENT STABILIZED SAND TO A POINT ONE FOOT BELOW BOTTOM OF PAVEMENT, IN LIFT OF STANDARD PRACTICE.
5. ALL TRENCHES NOT UNDER OR WITHIN FIVE FEET OF PAVEMENT SHALL BE BACKFILLED WITH SELECT MATERIAL PLACED IN LOOSE LIFTS NOT EXCEEDING 12-INCHES IN DEPTH AND COMPACTED TO THE DENSITY OF NATURAL SURROUNDING SOIL, BUT NOT LESS THAN 90% STANDARD PROCTOR DENSITY (ASTM D998).
6. MAINTAIN 6-INCH MINIMUM CLEARANCE AT PIPE CROSSINGS.
7. CONTRACTOR SHALL COORDINATE WITH ARCHITECTS DRAWINGS TO VERIFY LOCATION AND SIZE OF ALL BODIES, GROUND AND UTILITY CONNECTIONS. LIMITS OF PROPOSED SITE PLUMBING FACILITIES SHALL BE 5'-FEET FROM EDGE OF BUILDING, UNLESS OTHERWISE NOTED.
8. ALL PVC PIPE SHALL BE MADE FROM CLASS 1254- or 1254-B UNION COMPOUND PER ASTM F1784.
9. WATER SYSTEM:
 - A. ALL CONSTRUCTION AND MATERIALS, INCLUDING WATER METERS, SHALL BE IN ACCORDANCE WITH NOTE 2 ABOVE.
 - B. FIVE SPRINKLER LINES SHALL BE INSTALLED AND TESTED BY A CONTRACTOR LICENSED BY THE STATE TO PERFORM SUCH WORK (SECTION 464) & (B) OF ARTICLE 34-3-3 OF THE TEXAS BUSINESS CODE. CONTRACTOR SHALL FURNISH OWNER A CERTIFICATE OF MATERIALS A TEST CERTIFICATE FOR UNDERDRIP PIPING AS REQUIRED BY THE TEXAS COMMISSION ON FIRE PROTECTION.
 - C. ALL PVC PIPE USED IN WATER SYSTEMS SHALL BE THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL.
 - D. WATER LINE PIPE AND FITTINGS MATERIALS SHALL BE AS FOLLOWS:
 1. LESS THAN 4-INCH POTABLE WATERLINE - SCHEDULE 40, P120, PER SECTION OF THE STATE TO PERFORM SUCH WORK (SECTION 464) & (B) OF ARTICLE 34-3-3 OF THE TEXAS BUSINESS CODE. CONTRACTOR SHALL FURNISH OWNER A CERTIFICATE OF MATERIALS A TEST CERTIFICATE FOR UNDERDRIP PIPING AS REQUIRED BY THE TEXAS COMMISSION ON FIRE PROTECTION.
 2. 4-INCH AND LARGER POTABLE WATERLINE - ANMA C500, DR 18, CL 150 PVC.
 3. FIVE SPRINKLER LINE - DUCTILE IRON PIPE (DIP) PRESSURE CLASS 200, THICKNESS CLASS 150; OR ANMA C500, DR 18, CL 200 PVC.
 4. FITTINGS FOR LESS THAN 4-INCH POTABLE WATERLINE SHALL BE ASTM A1329, OR DUCTILE IRON COMPACT FITTINGS FOR WATER, PLACED AND 421.53, WITH CEMENT-MORTAR LAMINAR AND POLYETHYLENE WRAP.
 - E. VALVES:
 1. 1-1/2 INCHES AND SMALLER SHALL BE 125 PRC BRONZE, RISING STEM, SINGLE-BLOCK, OPER. TYPE, SIZES ARE GRAB 1/2, 3/4, 1, 1 1/4, 2, 2 1/2, 3, 4, 6, 8, 10, 12, 15, 20, 24, 30, 36, 42, 48, 60, 72, 90, 108, 120, 144, 180, 216, 240, 300, 360, 420, 480, 600, 720, 840, 960, 1080, 1200, 1440, 1800, 2160, 2400, 3000, 3600, 4200, 4800, 6000, 7200, 8400, 9600, 10800, 12000, 14400, 18000, 21600, 24000, 30000, 36000, 42000, 48000, 60000, 72000, 84000, 96000, 108000, 120000, 144000, 180000, 216000, 240000, 300000, 360000, 420000, 480000, 600000, 720000, 840000, 960000, 1080000, 1200000, 1440000, 1800000, 2160000, 2400000, 3000000, 3600000, 4200000, 4800000, 6000000, 7200000, 8400000, 9600000, 10800000, 12000000, 14400000, 18000000, 21600000, 24000000, 30000000, 36000000, 42000000, 48000000, 60000000, 72000000, 84000000, 96000000, 108000000, 120000000, 144000000, 180000000, 216000000, 240000000, 300000000, 360000000, 420000000, 480000000, 600000000, 720000000, 840000000, 960000000, 1080000000, 1200000000, 1440000000, 1800000000, 2160000000, 2400000000, 3000000000, 3600000000, 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F:\Clients\0204-Bear & Associates, Architect\0204-1402 Middle Academy - Belmont, TX\Drawings\C3 EXISTING CONDITIONS & DEMOLITION PLAN.dwg App. Cal. 2016-3-14pm Terra Associates Inc., John G. Montebardo



FLOODPLAIN INFORMATION
 THIS TRACT LIES IN ZONE "X" (UNSHADDED), DESIGNATED AS "AREAS DETERMINED TO BE OUTSIDE THE 25 ANNUAL CHANCE FLOODPLAIN" AS PER THE NATIONAL FLOOD INSURANCE PROGRAM FIRM PANEL NUMBER HISTORICAL, LATEST AVAILABLE PUBLISHED REVISION DATED APRIL 2, 2014.

BENCHMARK INFORMATION
 ALL ELEVATIONS SHOWN HEREON ARE BASED ON U.S. SURVEY FOOT; NAVD 83 (2001 ADJUSTMENT).

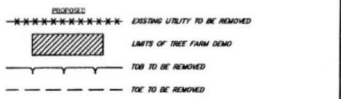
FLOODPLAIN E.M. NO. 180053 ELEVATION=101.45'
 BRIDGE OVER TRUCKEE OR MASON ROAD, APPROXIMATELY 0.6 MILES NORTH OF INTERSECTION OF FM 1063 AND MASON ROAD. DISK IS LOCATED 14.5' SOUTH OF NORTHERN END OF PEDESTRIAN WALKWAY, ON EAST SIDE OF BRIDGE, NORTHBOUND SPAN.

DISMANT TIME: ELEVATION=97.60'
 BOX CUIT ON BB INLET, APPROXIMATELY EAST WEST OF THE INTERSECTION OF THE INTERSECTION OF FRED ROAD AND BELLAIRE BOULEVARD.



- ABBREVIATIONS:**
- CONC CONCRETE
 - CM CONTROL MONUMENT
 - COR CORNER
 - ENRT EASEMENT
 - FND IRC FOUNDED IRON ROD & CAP
 - F.B.C.D.F. FORT BEND COUNTY CLERK'S FILE
 - F.B.C.D.R. FORT BEND COUNTY DEED RECORDS
 - R.O.W. RIGHT-OF-WAY
 - P.O.B. POINT OF BEGINNING
 - VOL. P.C. VOLUME, PAGE
 - FOC FIBER OPTIC CABLE
 - RCP REINFORCED CONCRETE PIPE
 - TRANS TRANSFORMER
 - TC TOP OF CURB
 - STM SWR STORM SEWER
 - SAN SWR SANITARY SEWER
 - R RECORDED
 - PVC POLYMER PIPE
 - F.B.C.P.A. FORT BEND COUNTY PLAT RECORDS
 - IL ILLINOIS
 - F.X.A. FORMERLY KNOWN AS
- SYMBOL LEGEND:**
- MANHOLE(M)
 - UTILITY POLE(P)
 - BB INLET(MBB)
 - CON ANCHOR(CA)
 - TEMPORARY BRANCH WAREHOUSE
 - FIRE HYDRANT(FH)
 - WATER VALVE(WV)
 - SIGN(SH)
 - BB INLET(MBB)
 - CON ANCHOR(CA)
 - IRON ROD(R)
 - OVERHEAD ELECTRIC(OH)
 - UNKNOWN RESER(U)
 - WOOD FENCE(WF)
 - ELECTRIC RESER(E)
 - SET 3/8\"/>

- INVERT LEGEND**
- ① BB INLET
 TC EL=97.60
 CUTTER EL=96.71
 24\"/>
 - ② STORM MANHOLE
 RIM EL=99.42
 24\"/>
 - ③ STORM MANHOLE
 RIM EL=99.45
 24\"/>
 - ④ BB INLET
 TC EL=92.91
 CUTTER EL=96.81
 24\"/>
 - ⑤ SAN MANHOLE
 RIM EL=98.37
 TOP OF DEBRIS EL=86.97
 BOTTOM EL=82.84
 (CAN NOT SEE PIPES)
 - ⑥ SAN MANHOLE
 RIM EL=99.08
 TOP OF DEBRIS EL=86.43
 BOTTOM EL=80.88
 (CAN NOT SEE PIPES)
 - ⑦ SAN MANHOLE
 RIM EL=100.46
 TOP OF DEBRIS EL=86.56
 BOTTOM EL=80.66
 (CAN NOT SEE PIPES)



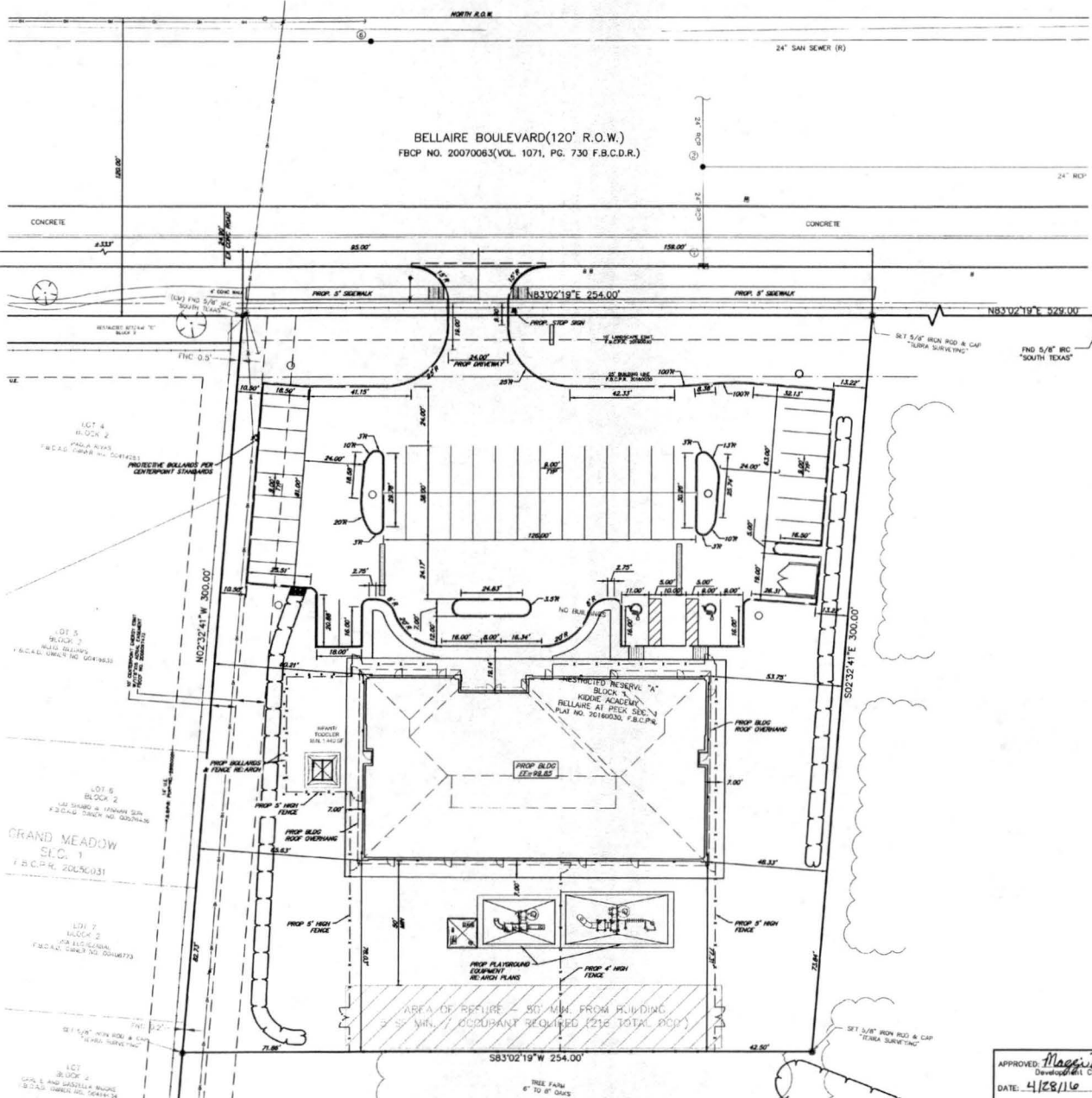
David Sepulveda
 STATE OF TEXAS
 COUNTY CLERK
 DAVID A. SEPULVEDA
 84008
 1000 W. WASHINGTON
 RICHMOND, TEXAS 77401
 THE SIGN APPEARING ON THIS DOCUMENT WAS APPROVED BY DAVID SEPULVEDA, COUNTY CLERK, ON APRIL 4, 2016.

REVNO	DESCRIPTION	DATE	APP.
	KIDDLE ACADEMY RICHMOND, TEXAS		
	EXISTING CONDITIONS & DEMOLITION PLAN		
TERRA ASSOCIATES, INC. CONSULTING ENGINEERS 1445 N. LOOP WEST - SUITE 450 HOUSTON, TEXAS 77008 713-993-0333 TBEF Registration No.: F-003832		PROJECT NO. 2004-1402	CONTRACT NO. 1
DRAWN BY: JAZ	SCALE: 1" = 20'	DATE: APRIL 4, 2016	SHEET C3 OF C15
CHECKED BY: DAS			

APPROVED: *Montebardo*
 Development Coordinator
 DATE: 4/28/16

F:\Clients\0054-Bear & Associates, Architects\0054-1402 Kiddie Academy - Richmond, TX\Drawings\CA DIMENSIONED SITE PLAN.dwg Apr 04, 2016 - 3:45pm Terra Associates Inc., Julio G. Magranda

NORTH PARK DR.
 120' R.O.W.
 FBCP NO. 20070063



BELLAIRE BOULEVARD (120' R.O.W.)
 FBCP NO. 20070063 (VOL. 1071, PG. 730 F.B.C.D.R.)

PECK RD. (F.K.A. BELLEFONT BOULEVARD)
 (120' R.O.W.)
 FBCP NO. 20070063 (FBCP)

FLOODPLAIN INFORMATION
 THIS TRACT LIES IN ZONE "X" (UNSHADED) DESIGNATED AS "AREAS DETERMINED TO BE OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN" AS PER THE NATIONAL FLOOD INSURANCE PROGRAM FIRM PANEL NUMBER 48320301, LATEST AVAILABLE PUBLISHED REVISION DATED APRIL 2, 2014.

BENCHMARK INFORMATION
 ALL ELEVATIONS SHOWN HEREON ARE BASED ON U.S. SURVEY FOOT, NAVD 88 (2001 ADJUSTMENT).
 FLOODPLAIN B.M. NO. 180015 ELEVATION=101.46'
 BRASS SPIKE ON BRIDGE ON MASON ROAD, APPROXIMATELY 0.6 MILES NORTH OF INTERSECTION OF FM 1093 AND MASON ROAD. 03K IS LOCATED 14.5' SOUTH OF NORTHERN END OF PEDESTRIAN WALKWAY, ON EAST SIDE OF BRIDGE, NORTHSOUTH SPAN.
 PROJECT B.M. 12 ELEVATION=97.80'
 BRASS SPIKE ON BR. PALE, APPROXIMATELY 800' WEST OF THE INTERSECTION OF THE INTERSECTION OF PECK ROAD AND BELLAIRE BOULEVARD.



- NOTES:**
1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 2. SEE ARCHITECTURE PLANS FOR DETAILS OF HANDICAP PARKING, STORAGE, RAMPS, STRIPING, ETC.
 3. ALL CURB RETURN RADIUS SHALL BE 5', AS SHOWN TYPICAL ON THIS PLAN, UNLESS OTHERWISE NOTED.



THE SEAL APPROVED ON THIS DOCUMENT WAS APPROVED BY DAVID SEPULVEDA, P.E. IN THE STATE OF TEXAS ON APRIL 4, 2016.

APPROVED: *Magranda*
 Development Coordinator
 DATE: 4/28/16

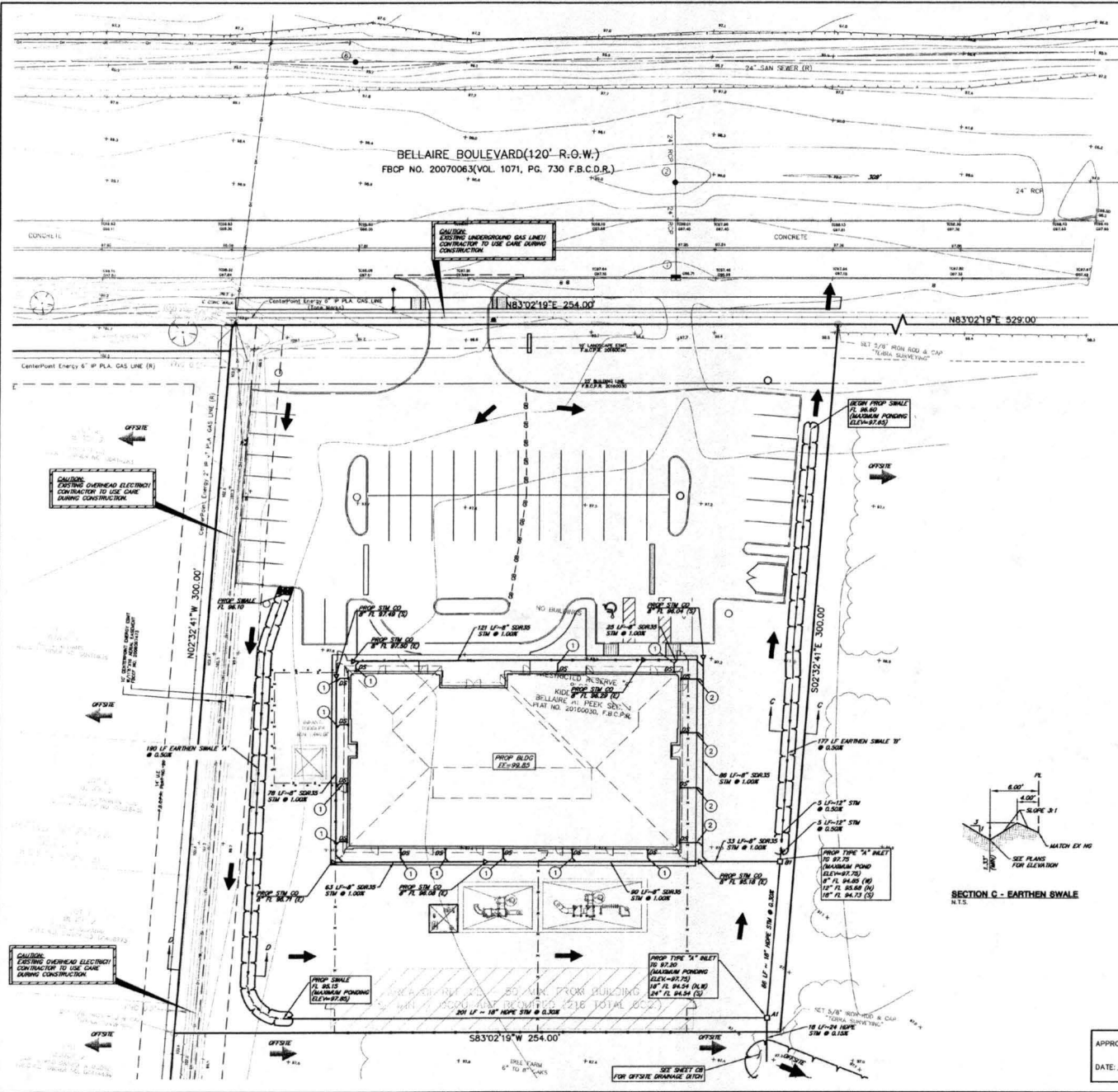
REV.	DESCRIPTION	DATE	APP.

**KIDDIE ACADEMY
 RICHMOND, TEXAS**

DIMENSIONED SITE PLAN

TERRA ASSOCIATES, INC. CONSULTING ENGINEERS	1445 N. LOOP WEST - SUITE 450 HOUSTON, TEXAS 77008 713-993-0333 TYPE Registration No.: F-003632
DRAWN BY: JAZ	SCALE: 1" = 20'
CHECKED BY: DAS	DATE: APRIL 4, 2016
PROJECT NO: 0054-1402	CONTRACT NO: 1
SHEET C4 OF C15	

F:\Clients\0054-Boer & Associates, Architects\0054-1402 Kiddie Academy - Richmond, TX\Drawings\05 SITE DRAINAGE PLAN.dwg, Apr 13, 2016 - 2:10pm Terms Associates Inc., Julio D. Hernandez

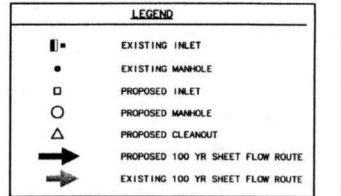


- INVERT LEGEND**
- ① BB INLET
IC EL=97.80
OUTER EL=98.71
24"RCIP(S)=92.95
 - ② STORM MANHOLE
RM EL=98.42
24"RCIP(S)=92.52
24"RCIP(S)=92.07
24"RCIP(S)=92.72
 - ③ STORM MANHOLE
RM EL=98.45
24"RCIP(S)=92.47
24"RCIP(S)=91.90
24"RCIP(S)=92.20
24"RCIP(S)=91.40
 - ④ BB INLET
IC EL=92.91
OUTER EL=98.83
24"RCIP(S)=92.91
 - ⑤ SAN MANHOLE
RM EL=98.37
TOP OF DEBRIS EL=88.97
BOTTOM EL=92.81
(CAN NOT SEE PIPES)
 - ⑥ SAN MANHOLE
RM EL=98.00
TOP OF DEBRIS EL=86.43
BOTTOM EL=90.89
(CAN NOT SEE PIPES)
 - ⑦ SAN MANHOLE
RM EL=100.48
TOP OF DEBRIS EL=86.58
BOTTOM EL=90.85
(CAN NOT SEE PIPES)

FLOODPLAIN INFORMATION
 THIS TRACT LIES IN ZONE "X" (UNSHADED), DESIGNATED AS "AREAS DETERMINED TO BE OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN", AS PER THE NATIONAL FLOOD INSURANCE PROGRAM FIRM PANEL NUMBER 48370101, LATEST AVAILABLE PUBLISHED REVISION DATED APRIL 2, 2014.

BENCHMARK INFORMATION
 ALL ELEVATIONS SHOWN HEREON ARE BASED ON U.S. SURVEY FOOT, NAVD 88 (2001 ADJUSTMENT).

PROJECT INFO: ELEVATION=97.80
 BOX CUT ON BB INLET, APPROXIMATELY 600' WEST OF THE INTERSECTION OF PEEK ROAD AND BELLAIRE BOULEVARD

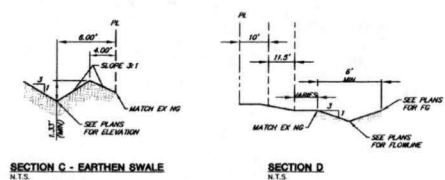


GENERAL NOTES

- 12" DIAMETER AND LARGER STORM SEWER MATERIAL SHALL BE HDPE (HIGH DENSITY POLYETHYLENE) UNLESS NOTED OTHERWISE ON PLAN
- 8" DIAMETER STORM SEWER MATERIAL SHALL BE SDR 35 PVC UNLESS NOTED OTHERWISE ON PLAN

STORM NOTES:

- 1 5 LF 8" SDR35 STM SWR @ 1.00%
- 2 11 LF 8" SDR35 STM SWR @ 1.00%



David Lopez

THE SEAL APPEARED ON THIS DOCUMENT WAS AUTHORIZED BY STATE REGISTRY FILE NUMBER 04 APRIL 13, 2016

REVNO.	DESCRIPTION	DATE

**KIDDIE ACADEMY
 RICHMOND, TEXAS**

SITE DRAINAGE PLAN

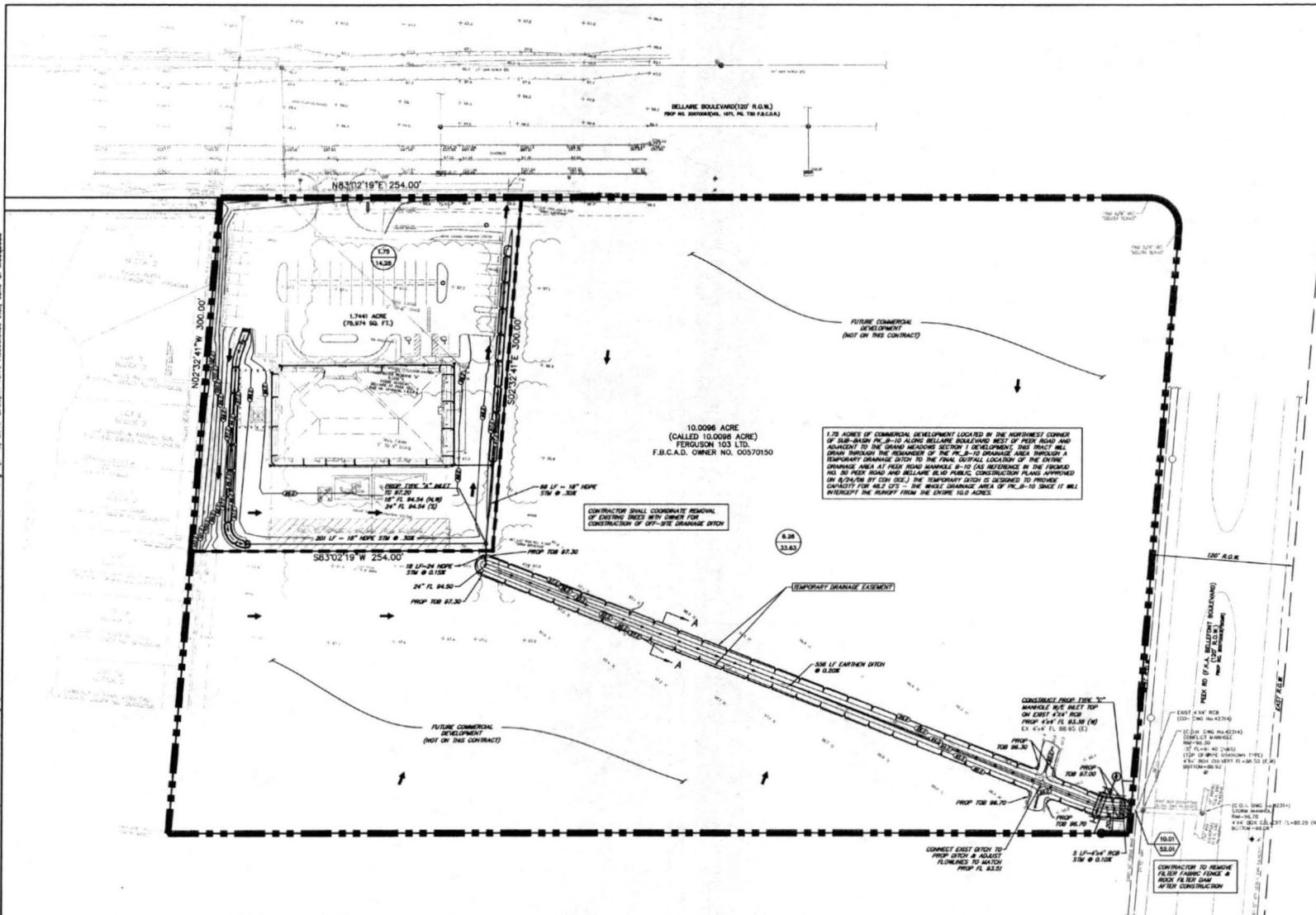
TERRA 1445 N. LOOP WEST - SUITE 450
 HOUSTON, TEXAS 77008
 ASSOCIATED, INC. 713-985-0333
 CONSULTING ENGINEERS TBE Registration No.: F-003832

DRAWN BY: JMC SCALE: 1" = 20'
 PROJECT No: 0054-1402
 CONTRACT: No. 1

CHECKED BY: DAS DATE: APRIL 13, 2016 SHEET C6 OF C15

APPROVED: *Maria DeLa*
 Development Coordinator
 DATE: 4/28/16

P:\Client\10054-Baker & Associates, Architects\10054-1402 Kiddie Academy - Richmond, TX\Drawings\10054-1402 OFFSITE DRAINAGE DITCH & OVERALL DRAINAGE MAP.dwg Apr 13, 2016 - 2:20pm Terry Associates Inc., Jairo O. Montenegro



FLOODPLAIN INFORMATION
 THIS TRACT LIES IN ZONE "X" (UNSHADED), DESIGNATED AS "AREAS DETERMINED TO BE OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN" AS FOR THE NATIONAL FLOOD INSURANCE PROGRAM. FIRM PANEL NUMBER 481570010L. LATEST AVAILABLE PUBLISHED REVISION DATED APRIL 2, 2014.

BENCHMARK INFORMATION
 ALL ELEVATIONS SHOWN HEREON ARE BASED ON U.S. SURVEY FOOT; HAVE BE (2001 ADJUSTMENT)

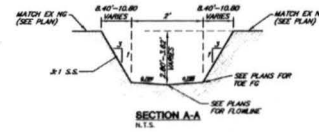
FLOODPLAIN B.M. NO. 180015; ELEVATION=101.48'
 BRASS DISK ON BRIDGE ON MASON ROAD, APPROXIMATELY 0.8 MILES NORTH OF INTERSECTION OF FM 1004 AND MASON ROAD. DISK IS LOCATED 14.5' SOUTH OF NORTHERN END OF PEDESTRIAN WALKWAY, ON EAST SIDE OF BRIDGE, NORTHBOUND SPAN.

PROJECT B.M. 1; ELEVATION=93.60'
 BOX CUT ON BE INLET, APPROXIMATELY 600' WEST OF THE INTERSECTION OF THE INTERSECTION OF PEER ROAD AND BELLARE BOULEVARD.

LEGEND

- PROPOSED DRAINAGE AREA BOUNDARY
- PROPOSED SUB-DRAINAGE AREA
- EXISTING INLET
- EXISTING MANHOLE
- PROPOSED "SB" INLET
- PROPOSED INLET
- PROPOSED MANHOLE
- PROPOSED SHEET FLOW ROUTE
- INCREMENTAL DRAINAGE AREA ACRES
100 YR. INCREMENTAL FLOW, CFS
- CUMULATIVE AREA, ACRES
100-YR CUMULATIVE FLOW, CFS
- FILTER FABRIC FENCE
- ROCK FILTER DAM
- PROPOSED CONTOUR

David A. Sepulveda



DRAINAGE SWALE CALCULATIONS

FOR
 Kiddie Academy - Richmond

Figure 1 c = 0.85 0.35
 To 10 minutes (10) = 1.25
 1 8.8 1.06 use 1.02

100-YEAR RAINFALL FREQUENCY		EARTHEN SWALE CAPACITY														
FROM AREA	TO AREA	TOTAL AREA	C ₁	T _C	Q	d	w	m	A	P	R	n	SI	K	Group	
(acres)	(acres)	(acres)	(min.)	(min.)	(cfs)	(ft)	(ft)	(ft)	(sq ft)	(%)	(%)	(%)	(%)	(%)	(ft/s)	
3	4	1.75	1.75	8.16	10.90	14.28	3.06	2.00	3.00	34.21	21.35	1.002	0.045	0.20%	1.48	6B-36
4	CUT	8.26	10.01	3.28	10.00	33.63	3.06	2.00	3.00	34.21	21.35	1.002	0.045	0.20%	1.48	6B-36

APPROVED: *Miguel A. Bermejo*
 Director
 DATE: 4/28/16

REV.	DESCRIPTION	DATE	APP.

**KIDDIE ACADEMY
 RICHMOND, TEXAS**

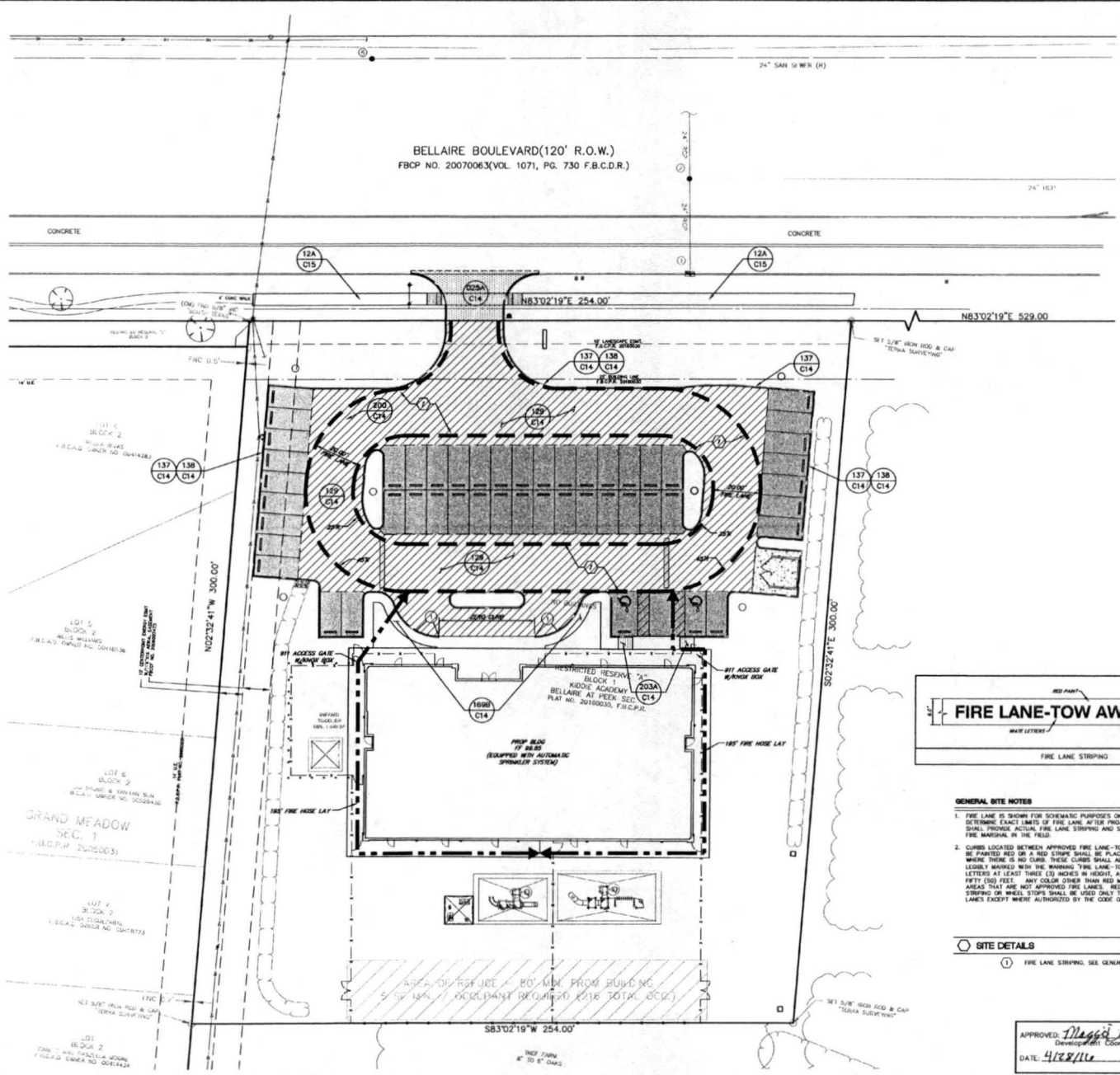
**OFFSITE DRAINAGE DITCH &
 OVERALL DRAINAGE MAP**

TERRA 1445 N. LOOP WEST - SUITE 450
 HOUSTON, TEXAS 77008
 713-863-0333

ASSOCIATE IN CHARGE
 CONSULTING ENGINEERS
 TBPE Registration No. F-003832

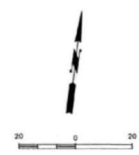
DRAWN BY: SAS SCALE: 1" = 40' PROJECT No. 0054-1402
 CONTRACT No. 1
 CHECKED BY: SAS DATE: APRIL 13, 2016 SHEET C8 of C15

F:\Clients\2004-Bear & Associates, Architects\2004-1402 Middle Academy - Richmond, TX\Drawings\C10 SITE PAVING PLAN.dwg Apr 04, 2016 - 3:47pm Terry Associates Inc., Julie C. Manquado



FLOODPLAIN INFORMATION
 THIS TRACT LIES IN ZONE "C" (UNSHADED) DESIGNATED AS "AREAS DETERMINED TO BE OUTSIDE THE 2% ANNUAL CHANCE FLOODPLAIN" AS PER THE NATIONAL FLOOD INSURANCE PROGRAM FIRM PANEL NUMBER 485207010, LATEST AVAILABLE PUBLISHED REVISION DATED APRIL 2, 2014.

BENCHMARK INFORMATION
 ALL ELEVATIONS SHOWN HEREON ARE BASED ON U.S. SURVEY FOOT, HAVO 88 (2007 ADJUSTMENT).
 FLOODPLAIN H.M. NO. 192005, ELEVATION=101.48'
 BRIDGE 1038 ON BRIDGE ON MASON ROAD, APPROXIMATELY 0.8 MILES NORTH OF INTERSECTION OF FM 1093 AND MASON ROAD. BRIDGE IS LOCATED 14.5' SOUTH OF NORTHERN END OF PEDESTRIAN WALKWAY, ON EAST SIDE OF BRIDGE, NORTHBOUND SPAN.
 PROJECT B.M. 1: ELEVATION=97.60'
 BOX CUT ON BR. PILE, APPROXIMATELY 400' WEST OF THE INTERSECTION OF THE INTERSECTION OF FREEK ROAD AND BELLAIRE BOULEVARD.

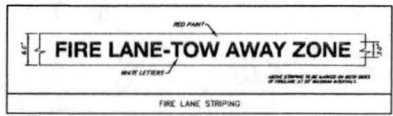


PAVING LEGEND

	PER FORT BEND COUNTY DRIVEWAY DETAILS
	5-INCH CONC. PAVEMENT
	6-INCH CONC. PAVEMENT
	7-INCH CONC. PAVEMENT
	PROPOSED FULL DEPTH SAWCUT
	PROPOSED 6" CURB
	FIRE LANE
	DETAIL NO. SHEET NO.
	FIRE HOSE LAY

NOTES

1) TRANSITION CURB FROM .5" INCHES TO .25" INCHES IN 10 FEET



GENERAL SITE NOTES

- FIRE LANE OR SIGNAGE FOR SIGNIFICANT PURPOSES ONLY. FIRE MARSHAL WILL DETERMINE EXACT LIMITS OF FIRE LANE AFTER PROJECT IS COMPLETE. CONTRACTOR SHALL PROVIDE ACTUAL FIRE LANE STRIPING AND SIGNAGE AFTER MEETING WITH FIRE MARSHAL IN THE FIELD.
- CURBS LOCATED BETWEEN APPROVED FIRE LANE-TOW AWAY ZONE SIGNS SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONG THE PAVEMENT WHERE THERE IS NO CURB. THESE CURBS SHALL ALSO BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE MARKING "FIRE LANE-TOW AWAY ZONE" IN WHITE LETTERS AT LEAST THREE (3) INCHES IN HEIGHT, AT INTERVALS NOT EXCEEDING FIFTY (50) FEET. ANY COLOR OTHER THAN RED MAY BE USED IN "NO PARKING" AREAS THAT ARE NOT APPROVED FIRE LANES. RED COLORED CURBS, PAVEMENT STRIPING OR WHEEL STOPS SHALL BE USED ONLY TO DESIGNATE APPROVED FIRE LANES EXCEPT WHERE AUTHORIZED BY THE CODE OFFICIAL.

SITE DETAILS

1) FIRE LANE STRIPING SEE GENERAL NOTE #1.

APPROVED: *Maggie*
 Development Coordinator
 DATE: 4/28/16



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID A. SEPULVEDA, P.E. ENGINEER ON APRIL 4, 2016.

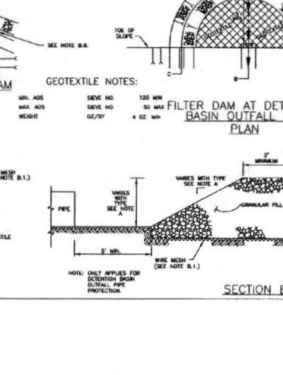
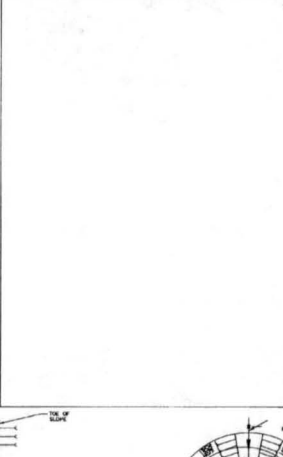
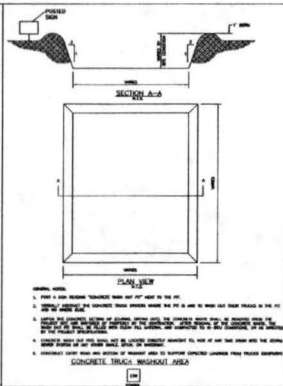
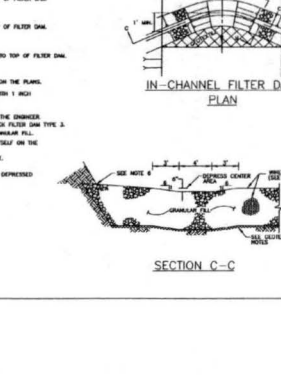
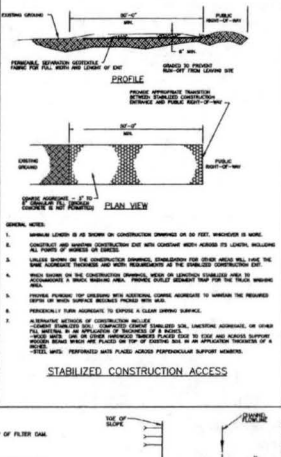
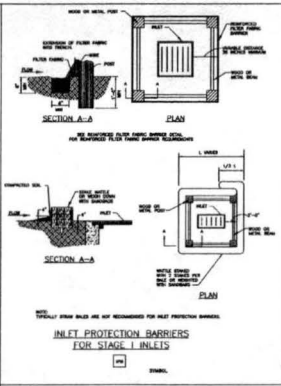
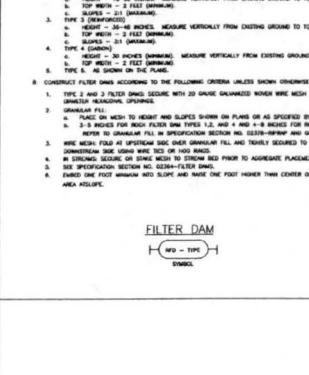
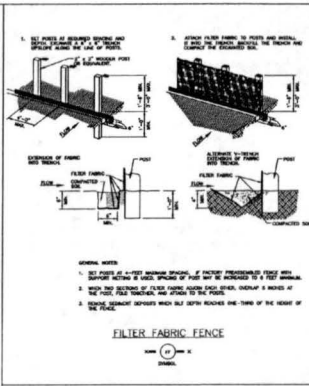
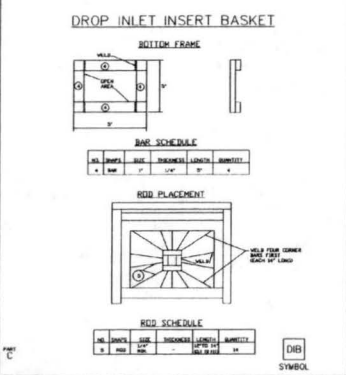
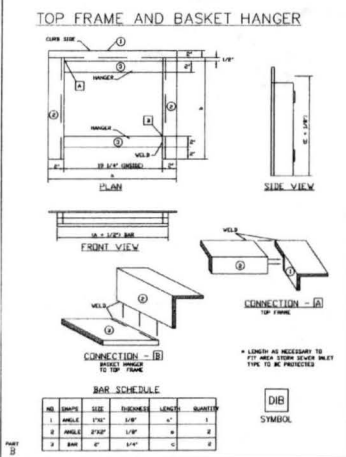
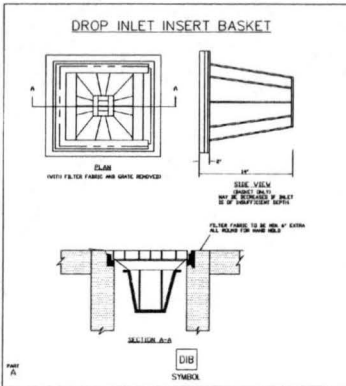
REVISION	DESCRIPTION	DATE	APP.

**KIDDIE ACADEMY
 RICHMOND, TEXAS**

SITE PAVING PLAN

TERRA 1445 N. LOOP WEST - SUITE 450
 HOUSTON, TEXAS 77008
 713-993-0333
 ASSOCIATES, INC.
 CONSULTING ENGINEERS
 TPEE Registration No.: F-0036332

DRAWN BY: JAZ SCALE: 1" = 20'
 CHECKED BY: DAS DATE: APRIL 4, 2016 PROJECT No.: 0024-1402
 SHEET C10 OF C15 CONTRACT: No. 1



SPECIFICATIONS:

STORM WATER POLLUTION PREVENTION NOTES

- PRIOR TO CONSTRUCTION MAKE CERTAIN THE NOTICE OF INTENT (NOI) OR CONSTRUCTION SITE NOTICE (CSN) HAS BEEN FILED AND POSTED ON-SITE FOR PUBLIC VIEWING AND THE TRKES REPORT AND SWPPP ARE AVAILABLE AT THE TRAILER.
- INSTALL STORM WATER POLLUTION PREVENTION CONTROLS PRIOR TO ANY SITE PREPARATION WORK (CLEANING, GRUBBING, EXCAVATION).
- THE PLACEMENT OF STORM WATER POLLUTION PREVENTION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED STORM WATER POLLUTION PREVENTION CONTROL PLAN.
- ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE ENGINEER AS APPROPRIATE. MAJOR CHANGES TO BE MADE AS FIELD CONDITIONS TO THE STORM WATER POLLUTION PREVENTION CONTROL PLAN MAY BE REQUIRED BY THE ENGINEER DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
- THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT INTERVALS OF AT LEAST ONCE EVERY TWO (2) WEEKS AND IMMEDIATELY AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
- WHERE SILENT FENCE CANNOT BE PROPERLY INSTALLED USE TRIANGULAR FILTRATION CRATE OR MAT BALES.
- SOIL DISTURBANCES SHALL BE MINIMIZED BY EXPOSING ONLY THE SMALLEST PRACTICAL AREA OF LAND REQUIRED FOR THE CLEANING AND GRUBBING ACTIVITY AND FOR THE CONSTRUCTION ACTIVITY FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
- STABILIZATION MEASURES WILL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND EXCEPT AS PROVIDED BELOW, WILL BE INITIATED NO MORE THAN FIFTEEN (15) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARLY RESTORING ACTIVITIES WILL BE INITIATED WITHIN TWENTY-ONE (21) DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE.
- TRAFFIC LEAVING THE CONSTRUCTION SITE WILL EXIT THROUGH A STABILIZED CONSTRUCTION EXIT AS LOCATED ON THE PLANS. WHEEL SOLES SHALL BE COLLECTED ON THE STABILIZED WHEELBAR EXIT TO AN EXTENT WHICH REDUCES ITS INTENDED EFFECTIVENESS. THE SURFACE WILL BE CLEANED AND RESTABILIZED FOR THE INTENDED PURPOSE.
- MUD/SILT INADEQUATELY TRACKED OFF-SITE AND ONTO PUBLIC STREETS SHALL BE REMOVED IMMEDIATELY.
- PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.
 - A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROADS) AND BETWEEN THE CURB AND ROYD-OF-WAY LINE.
 - THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION.
- THE EPA GENERAL PERMIT REQUIRES THAT A TEMPORARY OR PERMANENT SEDIMENT BASIN BE INSTALLED IN ANY GRAZING LOCATIONS WHERE MORE THAN 10 ACRES IN THE UPSTREAM DRAINAGE ARE DISTURBED AT ONE TIME. THE SEDIMENT BASIN MUST PROVIDE AT LEAST 1000 CUBIC FEET OF STORAGE FOR EVERY ACRE OF LAND WHICH IT DRAINS.
- CONTRACTOR TO COORDINATE CONSTRUCTION ACCESS TO SITE WITH LOCAL AUTHORITIES.
- ALL DISTURBED AREAS SHALL BE REVEGETATED WITH 4" OF TOP SOIL AND SEEDING PER PERMANENT EROSION CONTROL NOTE 12 ABOVE.

STORM WATER POLLUTION PREVENTION PLAN / TPDES

FURNISH AND INSTALL TEMPORARY AND PERMANENT STORM WATER POLLUTION PREVENTION CONTROL MEASURES SHOWN IN THE PLANS. CONSTRUCT IMPROVEMENTS IN COMPLIANCE WITH THE INTENT OF SUCH POLLUTION CONTROL MEASURES, TRKES PERMITS, OR OTHER LOCAL WATERWAY DEVELOPMENT PERMITS.

EXECUTION:

- CONTRACTOR IS RESPONSIBLE FOR ALL POLLUTION PREVENTION MEASURES SHOWN IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- SUBMIT A STORM WATER TPDES GENERAL PERMIT NOTICE OF INTENT (NOI) AT LEAST TWO DAYS PRIOR TO START OF CONSTRUCTION TO THE APPROPRIATE AGENCY SHOWN ON THE SWPPP.
- POST SIGNED AND COMPLETED AND POSTING NOTICE OF CONSTRUCTION SITE NOTICE (CSN) AT CONSTRUCTION ENTRANCE FOR PUBLIC VIEWING AND KEEP A COPY OF THE SWPPP AT THE JOB SITE AT ALL TIMES.
- INSTALL AND MAINTAIN POLLUTION CONTROL MEASURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND WITH PROJECT SPECIFICATIONS.
- INSTALL EROSION CONTROL MEASURES AND CONSTRUCTION ENTRANCES AS SHOWN IN THE SWPPP PRIOR TO BEGINNING CONSTRUCTION. POLLUTION CONTROL MEASURES SHALL BE REPAIRED, REESTABLISHED, ADJUSTED OR RETOOLED AT EACH SUBSEQUENT PHASE OF CONSTRUCTION IN ACCORDANCE WITH THE SWPPP.
- CONTRACTOR IS RESPONSIBLE FOR ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE, AND SHALL REMOVE THE ACCUMULATION OF OFF-SITE SEDIMENT PROMPTLY.
- MAINTAIN SEDIMENT TRAPS OR SEDIMENTATION BASINS.
- OFF-SITE MATERIAL STORAGE AREAS USED SOLELY BY THE PROJECT ARE CONSIDERED PART OF THE PROJECT.
- MAINTAIN RECORDS OF PROJECT MILESTONE DATES AND FIELD CHANGES AS REQUIRED BY THE SWPPP.
- INSPECT POLLUTION CONTROL MEASURES EVERY 14 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT GREATER THAN 0.5 INCHES OF RAINFALL. AN INSPECTION REPORT SHALL BE RECORDED AS REQUIRED BY THE SWPPP.
- DEFICIENCIES NOTED DURING THE INSPECTION WILL BE CORRECTED AND DOCUMENTED WITHIN SEVEN CALENDAR DAYS OR BEFORE THE NEXT ANTICIPATED STORM EVENT.

David J. ...
 STATE OF TEXAS
 LAND & SURVEILLANCE
 84008
 PROFESSIONAL ENGINEER
 THE SEAL AFFIXED ON THE DOCUMENT WAS REVOKED BY SAID ENGINEER 12 MONTHS ON APRIL 4, 2018.

APPROVED: *Blair D. ...*
 Designer/Coordinator
 DATE: 4/28/18

NO.	DESCRIPTION	DATE	APP.
	KIDDIE ACADEMY RICHMOND, TEXAS		
	STORM WATER POLLUTION PREVENTION DETAILS		
TERRA 1445 N. LOOP WEST - SUITE 450 HOUSTON, TEXAS 77008 713-985-0333 A ARCHITECT, INC. CONSULTING ENGINEERS TBPE Registration No.: F-003832			
DRAWN BY: JAC	SCALE: N/A	PROJECT NO: 0054-1402	
CHECKED BY: DAS	DATE: APRIL 4, 2018	CONTRACT: No. 1	SHEET C12 OF C15

F:\Utilities\004-Boiler & Association, Architect\004-1402 Kiddle Academy - Richmond, TX\Drawings\013 SITE UTILITY DETAILS.dwg Apr 04, 2016 - 3:47pm Terra Associates, Inc., Julio C. Macias

<p>IRRIGATION SLEEVE DETAIL</p>	<p>4' DIA SANITARY SEWER MANHOLE</p>	<p>SANITARY SEWER MANHOLE NOTES</p> <p>1. 1/2" DIA. (2" DIA.) SHALL BE USED TO BE SET ON TOP TO MANHOLE.</p> <p>2. 1/2" DIA. OF MANHOLE EXTERIOR SECTION REQUIRED.</p>	<p>STORM SEWER MANHOLE TYPE "C" FOR 42" DIAMETER AND SMALLER</p>	<p>WASTE WATER SAMPLING WELL</p>	<p>GENERAL NOTES</p> <p>1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD PRACTICES OF THE PROFESSION.</p> <p>2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.</p>												
<p>PRIVATE SEWER CLEANOUT SANITARY AND STORM</p>	<p>BEDDING FOR STORM SEWER 36" AND SMALLER IN DIAMETER</p>	<p>SANITARY SEWER BEDDING AND BACKFILL</p>	<p>WATERLINE BEDDING AND BACKFILL</p>	<p>TYPICAL GATE VALVE INSTALLATION</p>													
<p>MANHOLE FRAME AND COVER</p>	<p>INLET DETAILS TYPE "A" & "B"</p>	<p>THRUST BLOCK DETAIL</p>	<p>MANHOLE FRAME AND COVER</p>	<p>MANHOLE FRAME AND COVER</p>	<p>REVISION</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APP.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>KIDDLE ACADEMY RICHMOND, TEXAS</p> <p>SITE UTILITY DETAILS</p>	NO.	DESCRIPTION	DATE	APP.								
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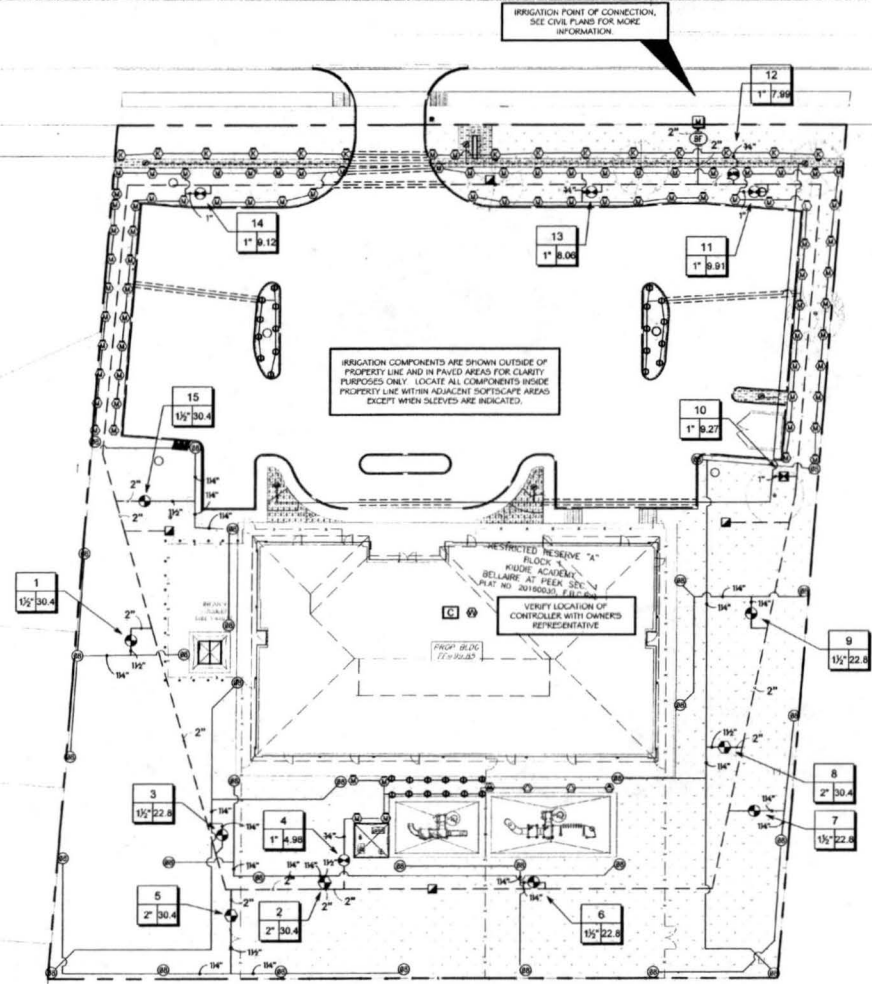
David J. ...

THE SEAL APPEARING ON THIS DOCUMENT WILL BE REPRODUCED BY EXACT REPRODUCTION FOR RECORD ON APRIL 4, 2016.

APPROVED: *Magid ...*
 Development Coordinator
 DATE: 4/28/16

TERRA 1445 N. LOOP WEST - SUITE 450
 HOUSTON, TEXAS 77008
 713-993-0333
 CONSULTING ENGINEERS
 PROJECT No. 004-1402
 CONTRACT No. 1
 SHEET C13 of C15

BELLAIRE BOULEVARD(120' R.O.W.)
 FBCT NO 20070063(VCL 1071, PG. 730 F.B.C.D.R.)



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	WIRE	PSI	PSI @ 100'	GPM	PRECIP	
1	Hunter PDV-151 Globe	1-1/2"	Turf Rotator	254.6	45.36	53.46	30.40	1.01 w/h	
2	Hunter PDV-201 Globe	2"	Turf Rotator	115.5	46.44	54.76	30.40	0.69 w/h	
3	Hunter PDV-151 Globe	1-1/2"	Turf Rotator	166.1	40.57	54.76	22.80	2.82 w/h	
4	Hunter PDV-101G	1"	Turf Rotary	106.4	32.99	36.33	4.98	0.70 w/h	
5	Hunter PDV-201 Globe	2"	Turf Rotator	154.0	45.56	53.54	30.40	0.68 w/h	
6	Hunter PDV-151 Globe	1-1/2"	Turf Rotator	182.4	45.33	51.40	22.80	0.90 w/h	
7	Hunter PDV-151 Globe	1-1/2"	Turf Rotator	271.3	47.94	53.50	22.80	0.74 w/h	
8	Hunter PDV-201 Globe	2"	Turf Rotator	291.3	45.86	53.33	30.40	1.62 w/h	
9	Hunter PDV-151 Globe	1-1/2"	Turf Rotator	336.0	45.46	51.33	22.80	0.62 w/h	
10	Rain Bird KCZ-100-PRF	1"	Area for Dryline	306.4	44.16			9.27	0.68 w/h
11	Hunter PDV-101G	1"	Turf Rotary	510.2	33.77	37.50	9.91	0.46 w/h	
12	Hunter PDV-101G	1"	Turf Rotary	518.3	35.39	39.99	7.99	0.23 w/h	
13	Hunter PDV-101G	1"	Turf Rotary	566.9	33.22	36.26	6.56	0.36 w/h	
14	Hunter PDV-101G	1"	Turf Rotary	436.3	33.47	37.22	9.12	0.57 w/h	
15	Hunter PDV-151 Globe	1-1/2"	Turf Rotator	290.1	45.47	53.55	30.40	2.41 w/h	
	Common Wire			1,066					

DRIP IRRIGATION NOTES:

- INSTALL MANUAL FLUSH VALVES IN EACH ZONE AT LOW POINTS, PER DETAIL NO. 411A ON SHEET L4.1.
- INSTALL ONE AIR/VACUUM RELIEF VALVE IN EACH SUB-SURFACE ZONE AT HIGHEST POINT PER DETAIL NO. 412 ON SHEET L4.1.
- INSTALL RAISED OPERATION INDICATORS IN EACH ZONE FOR END-FED ZONES PLACE INDICATOR AT OPPOSITE END FROM VALVE. FOR CENTER-FED ZONES AN INDICATOR SHALL BE PLACED AT EACH END OF ZONE. WHEN ZONE HAS MULTIPLE END AREAS, I.E. PARKING LOTS, PLACE ONE INDICATOR PER END AREA. PLACEMENT SHALL BE IN ACCESSIBLE BUT SCREENED FROM PUBLIC VIEW. SEE DETAIL NO. 414 ON SHEET L4.1.
- ALL ON-SURFACE DRIFLINE SHALL BE COVERED BY A MULCH LAYER (MIN. 3" DEPTH) AND WEED BARRIER FABRIC (EXCEPT IN AREAS OF SEASONAL COLOR AND SURFACE SPREADING GROUNDCOVERS).
- ALL DRIFLINE, IN ON-SURFACE INSTALLATIONS, MUST BE SECURED EVERY THREE (3) INCHES (3") WITH RAISED GALVANIZED IRON DOWN-STAKES, OR APPROVED EQUAL.
- INSTALL CONTROL VALVES WITH MAXIMUM 1.0 GAUGE WIRE.

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN/WEEK	MIN.WEEK	MAX.WEEK	GAL.WEEK	GAL.DAY
1	Hunter PDV-151 Globe	Turf Rotator	1.01 w/h	0.99	60	1,624	260.6	
2	Hunter PDV-201 Globe	Turf Rotator	0.69 w/h	0.99	67	2,345	377.8	
3	Hunter PDV-151 Globe	Turf Rotator	2.82 w/h	0.99	22	501.6	77.7	
4	Hunter PDV-101G	Turf Rotary	0.70 w/h	0.99	66	427.9	61.1	
5	Hunter PDV-201 Globe	Turf Rotator	0.68 w/h	0.99	68	2,027	295.3	
6	Hunter PDV-151 Globe	Turf Rotator	0.90 w/h	0.99	67	1,526	218.2	
7	Hunter PDV-151 Globe	Turf Rotator	0.74 w/h	0.99	61	1,617	263.8	
8	Hunter PDV-201 Globe	Turf Rotator	1.62 w/h	0.99	37	1,125	160.7	
9	Hunter PDV-151 Globe	Turf Rotator	0.62 w/h	0.99	71	1,644	237.8	
10	Rain Bird KCZ-100-PRF	Area for Dryline	0.69 w/h	0.99	66	797.3	113.9	
11	Hunter PDV-101G	Turf Rotary	0.46 w/h	0.99	129	1,279	182.7	
12	Hunter PDV-101G	Turf Rotary	0.23 w/h	0.99	264	2,106	301.2	
13	Hunter PDV-101G	Turf Rotary	0.36 w/h	0.99	166	1,336	191.1	
14	Hunter PDV-101G	Turf Rotary	0.57 w/h	0.99	104	948.9	135.6	
15	Hunter PDV-151 Globe	Turf Rotator	2.41 w/h	0.99	25	760	106.6	
TOTALS:						1,355	20,650	2,900

NOTE: CONTRACTOR SHALL MAINTAIN A COPY OF THE ABOVE SCHEDULE AND AFFIX IT TO THE INSIDE COVER OF THE IRRIGATION CONTROLLER.

IRRIGATION SCHEDULE

SYMBOL **MANUFACTURER/MODEL**

Hunter MP1000 PR25-04-PR540-CV
 Hunter MP2000 PR25-04-PR540-CV
 Hunter MP5000R PR25-04-PR540-CV
 Hunter MP Skytr PR25-04-PR540-CV

SYMBOL **MANUFACTURER/MODEL**

Hunter 1-40-04-55

SYMBOL **MANUFACTURER/MODEL**

Rain Bird KCZ-100-PRF
 Pipe Transition Post in Drip Box
 Area to Receive Dryline
 Rain Bird WFD-09-15 (1/2)

SYMBOL **MANUFACTURER/MODEL**

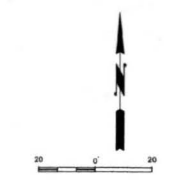
Hunter PDV-151 Globe
 Hunter PDV-101G
 Febco 765 1"
 Hunter PCC-1500
 Hunter Solar-Sync-Sen
 Water Meter 1-1/2"
 Irrigation Lateral Line: Dri-Lock and PVC Class 200
 Irrigation Mainline: PVC Schedule 40
 Pipe Sleeve: Dri-Lock and PVC Class 200
 Valve Cabinet

SYMBOL

Valve Number
 Valve Flow
 Valve Size

SEE SHEET L3.1 FOR FULL LEGEND WITH DESCRIPTIONS AND QUANTITIES.

APPROVED: *[Signature]*
 Designer/Est. Coordinator
 DATE: 4/22/16



Amanda Burton



REVISION	DESCRIPTION	DATE	APP.

**KIDDIE ACADEMY
 RICHMOND, TEXAS
 IRRIGATION PLAN**

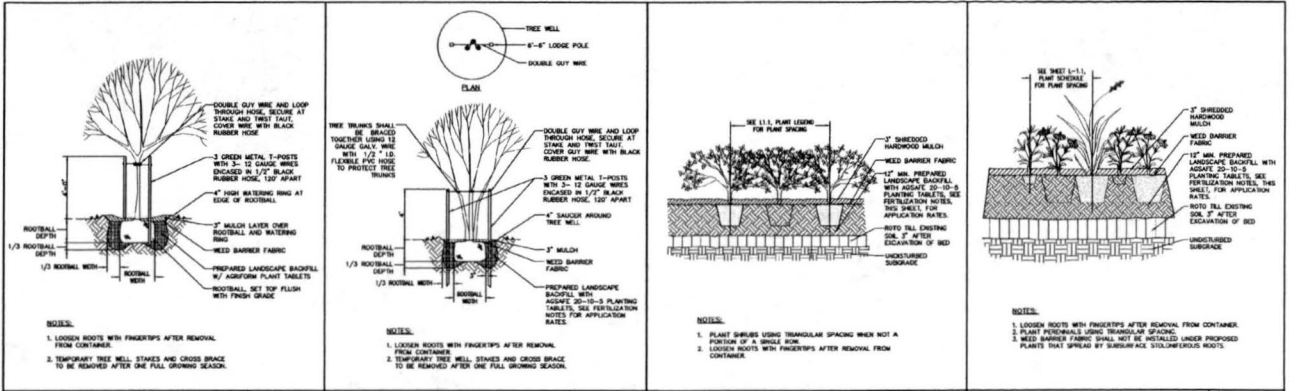
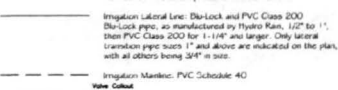
TERRA 1445 N. LOOP WEST - SUITE 450
 HOUSTON, TEXAS 77008
 713-963-0333
 AGRICULTURAL ENGINEERS
 TBPE Registration No: F-003832

DRAWN BY: JAC SCALE: 1" = 20'
 CHECKED BY: JAC DATE: APRIL 13, 2016 PROJECT No. 0056-1402
 SHEET L3.1 OF C15

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
⊙ ⊙ ⊙	Hunter MP1000 PROS-04-PR540-CV Turf Rotator, 4" (1.0) 16 only pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PR540 body. M=Manon adj are 30 to 210, L=Light Blue 210 to 270 are, O=Olive 360 are.	60	30
⊙ ⊙ ⊙	Hunter MP2000 PROS-04-PR540-CV Turf Rotator, 4" (1.0) 16 only pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PR540 body. K=Black adj are 30-210, G=Green adj are 210-270, Red/Blue 360 are.	14	30
⊙ ⊙ ⊙	Hunter MP2000R PROS-04-PR540-CV Turf Rotator, 4" (1.0) 16 only pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PR540 body. K=Black adj are 30-210, G=Green adj are 210-270, Red/Blue 360 are.	18	30
⊙ ⊙ ⊙	Hunter MP2000R PROS-04-PR540-CV Turf Rotator, 4" (1.0) 16 only pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PR540 body. K=Black adj are 30-210, G=Green adj are 210-270, Red/Blue 360 are.	4	30
⊙ ⊙ ⊙	Hunter MP2000R PROS-04-PR540-CV Turf Rotator, 4" (1.0) 16 only pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle on PR540 body. L5=only with strip, S5T=Brown side strip, K5T=Copper right strip.	4	30
⊙ ⊙ ⊙	Hunter 140-04-30 Turf Rotator, 4" (1.0) Adjustable to Full Circle, Drain Check Valve, Stainless Steel Noz, 1" Female NPT Inlet Threads, Standard Nozzle.	32	40 7.60 44"
⊙ ⊙ ⊙	Kan Dori XZC-100-PRF Medium Flow Strip Controller, 1/2" (1.27) inlet, 1" pressure regulating Mtr, 40psi pressure regulator, 3gpm - 1.5gpm.	1	
⊙ ⊙ ⊙	Pipe Transition Port in Drip Box Pvc transition port from Pvc lateral to drip tubing with ring in 6" (152mm) drip box.	6	
⊙ ⊙ ⊙	Area to Receive Drip Line Rain Bird SFD-09-1.0 (1.0) 1/2" (12.7) Un-Pressure Compensating Landscape Drip Line, 0.3GPM emitters at 16.0° C. Drip line spaced at 12.0" apart, with emitters offset for triangular pattern. Place under mulch per details. Place under wood barrier fabric except in ground cover and seasonal beds areas.	1,634 S.F.	
⊙ ⊙ ⊙	Hunter PCV-110-Globe 1-1/2" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet, With Flow Control. Globe Configuration.	5	
⊙ ⊙ ⊙	Hunter PCV-110-G 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Globe Configuration. With Flow Control.	9	
⊙ ⊙ ⊙	Felco 765 1" Pressure Vacuum Breaker, brass with ball valve SCH, install 12" (305MM) above highest downstream outlet and the highest point in the downstream piping.	1	
⊙ ⊙ ⊙	Hunter PCC-1500 Disturbanceless Controller, 15 stations, outdoor model. With plastic cabinet, and 3 independent programs. 120 VAC. A Cost-Effective Choice for Residential and Commercial Applications.	1	
⊙ ⊙ ⊙	Hunter Solar-Sync-Sen Solar rain freeze sensor with outdoor interface, connects to Hunter X-Core and ACC Controllers, install as noted. Includes gutter mount bracket. Wind. Module not included.	1	
⊙ ⊙ ⊙	Water Meter 1-1/2" See Civil Plans for more details on Irrigation Meter Connection. Absured pressure at PUC: 60 PSI	1	
⊙ ⊙ ⊙	Irrigation Lateral Line: Blue-Loop and PVC Class 200 Blue-Loop pipe, as manufactured by Hydro Rain, 1/2" to 1", Blue PVC Class 200 per 1-1/4" and larger. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size.	3,470 L.F.	
⊙ ⊙ ⊙	Irrigation Mainline: PVC Schedule 40	1,044 L.F.	



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Kan Dori XZC-100-PRF Medium Flow Strip Controller, 1/2" (1.27) inlet, 1" pressure regulating Mtr, 40psi pressure regulator, 3gpm - 1.5gpm.	1			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Area to Receive Drip Line Rain Bird SFD-09-1.0 (1.0) 1/2" (12.7) Un-Pressure Compensating Landscape Drip Line, 0.3GPM emitters at 16.0° C. Drip line spaced at 12.0" apart, with emitters offset for triangular pattern. Place under mulch per details. Place under wood barrier fabric except in ground cover and seasonal beds areas.	1,634 S.F.			
⊙ ⊙ ⊙	Hunter PCV-110-Globe 1-1/2" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet, With Flow Control. Globe Configuration.	5			
⊙ ⊙ ⊙	Hunter PCV-110-G 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Globe Configuration. With Flow Control.	9			
⊙ ⊙ ⊙	Felco 765 1" Pressure Vacuum Breaker, brass with ball valve SCH, install 12" (305MM) above highest downstream outlet and the highest point in the downstream piping.	1			
⊙ ⊙ ⊙	Hunter PCC-1500 Disturbanceless Controller, 15 stations, outdoor model. With plastic cabinet, and 3 independent programs. 120 VAC. A Cost-Effective Choice for Residential and Commercial Applications.	1			
⊙ ⊙ ⊙	Hunter Solar-Sync-Sen Solar rain freeze sensor with outdoor interface, connects to Hunter X-Core and ACC Controllers, install as noted. Includes gutter mount bracket. Wind. Module not included.	1			
⊙ ⊙ ⊙	Water Meter 1-1/2" See Civil Plans for more details on Irrigation Meter Connection. Absured pressure at PUC: 60 PSI	1			
⊙ ⊙ ⊙	Irrigation Lateral Line: Blue-Loop and PVC Class 200 Blue-Loop pipe, as manufactured by Hydro Rain, 1/2" to 1", Blue PVC Class 200 per 1-1/4" and larger. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size.	3,470 L.F.			
⊙ ⊙ ⊙	Irrigation Mainline: PVC Schedule 40	1,044 L.F.			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Area to Receive Drip Line Rain Bird SFD-09-1.0 (1.0) 1/2" (12.7) Un-Pressure Compensating Landscape Drip Line, 0.3GPM emitters at 16.0° C. Drip line spaced at 12.0" apart, with emitters offset for triangular pattern. Place under mulch per details. Place under wood barrier fabric except in ground cover and seasonal beds areas.	1,634 S.F.			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Hunter PCV-110-Globe 1-1/2" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet, With Flow Control. Globe Configuration.	5			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Hunter PCV-110-G 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Globe Configuration. With Flow Control.	9			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Felco 765 1" Pressure Vacuum Breaker, brass with ball valve SCH, install 12" (305MM) above highest downstream outlet and the highest point in the downstream piping.	1			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Hunter PCC-1500 Disturbanceless Controller, 15 stations, outdoor model. With plastic cabinet, and 3 independent programs. 120 VAC. A Cost-Effective Choice for Residential and Commercial Applications.	1			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Hunter Solar-Sync-Sen Solar rain freeze sensor with outdoor interface, connects to Hunter X-Core and ACC Controllers, install as noted. Includes gutter mount bracket. Wind. Module not included.	1			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Water Meter 1-1/2" See Civil Plans for more details on Irrigation Meter Connection. Absured pressure at PUC: 60 PSI	1			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Irrigation Lateral Line: Blue-Loop and PVC Class 200 Blue-Loop pipe, as manufactured by Hydro Rain, 1/2" to 1", Blue PVC Class 200 per 1-1/4" and larger. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size.	3,470 L.F.			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Irrigation Mainline: PVC Schedule 40	1,044 L.F.			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Hunter PCV-110-Globe 1-1/2" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet, With Flow Control. Globe Configuration.	5			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Hunter PCV-110-G 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Globe Configuration. With Flow Control.	9			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Felco 765 1" Pressure Vacuum Breaker, brass with ball valve SCH, install 12" (305MM) above highest downstream outlet and the highest point in the downstream piping.	1			

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Hunter Solar-Sync-Sen Solar rain freeze sensor with outdoor interface, connects to Hunter X-Core and ACC Controllers, install as noted. Includes gutter mount bracket. Wind. Module not included.	1			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Water Meter 1-1/2" See Civil Plans for more details on Irrigation Meter Connection. Absured pressure at PUC: 60 PSI	1			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Irrigation Lateral Line: Blue-Loop and PVC Class 200 Blue-Loop pipe, as manufactured by Hydro Rain, 1/2" to 1", Blue PVC Class 200 per 1-1/4" and larger. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size.	3,470 L.F.			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Irrigation Mainline: PVC Schedule 40	1,044 L.F.			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Hunter PCV-110-Globe 1-1/2" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet, With Flow Control. Globe Configuration.	5			

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	QTY	RADIUS
⊙ ⊙ ⊙	Hunter PCV-110-G 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Globe Configuration. With Flow Control.	9			

FERTILIZATION NOTES

SHRUBS AND TREES

ALL TREES AND SHRUBS SHALL BE FERTILIZED WITH "AGROFORM" 20-15-5 PLANTING TABLETS AT TIME OF INSTALLATION AND PRIOR TO COMPLETION OF PIT BACKFILLING. TABLETS SHALL BE PLACED UNIFORMLY AROUND THE ROOT MASS AT A DEPTH THAT IS BETWEEN THE MIDDLE AND BOTTOM OF THE ROOT MASS.

APPLICATION RATE:

1 GALLON CONTAINER:	1 - 21 GRAM TABLET
3 GALLON CONTAINER:	2 - 21 GRAM TABLETS
5 GALLON CONTAINER:	3 - 21 GRAM TABLETS
7 GALLON CONTAINER:	4 - 21 GRAM TABLETS
TREES:	3 - 21 GRAM TABLETS EACH 1/2" OF CALIPER
SHRUBS:	7 - 21 GRAM TABLETS

GROUNDCOVER AREAS

ALL GROUNDCOVER AREAS SHALL RECEIVE FERTILIZATION WITH "MIRACLE-ORO LIQUID QUICK START PLANT FOOD" APPLY PER MANUFACTURER'S SPECIFICATIONS.



- 1. LIST OF PRECIPITATION RATES OF EACH IRRIGATION ZONE WITHIN THE SYSTEM
- 2. DOCUMENTATION OUTLINEING ANY WATER CONSERVATION MEASURES CURRENTLY IN EFFECT FROM THE WATER PROVIDER
- 3. TOP NAME OF THE WATER PROVIDER
- 4. A SUGGESTED SEASONAL OR MONTHLY WATERING SCHEDULE BASED ON CURRENT PRECIPITATION DATA FOR THE GEOGRAPHIC REGION AND MINIMUM WATER REQUIREMENTS FOR THE PLANT MATERIAL IN EACH ZONE BASED ON THE SOIL TYPE AND PLANT MATERIAL WHERE THE SYSTEM IS INSTALLED.
- 5. A WRITTEN WARRANTY COVERING MATERIALS AND LABOR PURCHASED IN THE NEW INSTALLATION OF THE IRRIGATION SYSTEM FOR A MINIMUM PERIOD OF ONE YEAR. WARRANTY MUST INCLUDE THE QUALITY CONTROLLED IRRIGATION CONTRACTORS SEAL, NAME, SIGNATURE, DATE, BUSINESS ADDRESS AND BUSINESS TELEPHONE NUMBERS. WARRANTY MUST INCLUDE THE STATEMENT "REGULATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), ACT 176, P.O. BOX 130527, AUSTIN, TEXAS 78713-0527. TCEQ'S WEBSITE IS WWW.TCEQ.STATE.TX.US". IRRIGATION CONTRACTOR SHALL ALSO SUPPLY INFORMATION REGARDING APPLICABLE WATERFACETS WARRANTY.
- 6. AFTER A PERMANENT ESTEER TO THE IRRIGATION CONTRACTOR THE LEAD, THE CONTRACTOR (LICENSED IRRIGATORS NAME, LICENSE NUMBER, COMPANY NAME, TELEPHONE NUMBERS) AND THE DATES OF THE WARRANTY PERIOD.
- 7. AFTER A LAMINATED AS-BUILT IRRIGATION ZONE MAP TO THE INSIDE COVER OF THE CONTRACTOR, MANEER ALL STAMP FOR THE MAP. PROVIDE A CHART SHOWING THE PROGRAM, WATERING DATES, START TIMES, AND RUN TIMES FOR EACH ZONE.
- 8. REFER TO IRRIGATION SPECIFICATIONS FOR MORE INFORMATION.
- 9. WHEN INSTALLING IRRIGATION UNDER OR NEAR EXISTING TREES, ALL TRENCHES MUST BEWIND OVER ROOTS LARGER THAN THREE (3) INCHES IN DIAMETER MAY NOT BE CUT.

REV.	DESCRIPTION	DATE

KIDDIE ACADEMY
RICHMOND, TEXAS

LANDSCAPE DETAILS

TERRA 1445 N. LOOP WEST - SUITE 4
HOUSTON, TEXAS 77008
ASSOCIATES, INC.
CONSULTING ENGINEERS
TBE Registration No. F-003832

APPROVED: *Maggie Dool*
Development Coordinator
DATE: 4/28/16

DRAWN BY: JAE SCALE: 1" = 20' PROJECT NO. 0094-146 CONTRACT NO. 1
CHECKED BY: JAE DATE: APRIL 13, 2016 SHEET L3.1 OF 1

F:\Client\10054-Suker & Associates, Architects\10054-1402 Kiddle Academy - Richmond, TX\Drawings\1.1 IRRIGATION PLANS.dwg, Apr 21, 2016-8:36am, Terra Associates Inc., Amanda Buckner

Amanda Buckner

STATE OF TEXAS
AMANDA D. BUCKNER
LICENSED PROFESSIONAL ENGINEER
15410
April 21, 2016

