Fort Bend County
Engineering Department
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytx.gov

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

[ ] **Right of Way Permit**
[X] **Commercial Driveway Permit**
Permit No: 2016-10996

Applicant: **Huckabee**

Job Location Site: **3151 Falcon Landing Blvd, Katy, TX 77494**

Bond No. **Not Required** **Date of Bond:** _____ **Amount:** _____

The above applicant came to make use of certain Fort Bend County property subject to, "The 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, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistant with Chapter 181, Vernon's Texas Statutes and Codes Annoted.

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, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 13th day of June, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Morales, 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.

Signature

By: Charles O. Ay
for County Engineer

By: N/A
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

Date Recorded 6-13-2017 Comm. Court No. 14E

Clerk of Commissioners Court

By: Linda Willis
Deputy

Fort Bend County
Engineering Department
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytx.gov

PERMIT APPLICATION REVIEW FORM FOR CABLE, CONDUIT, AND POLE LINE ACTIVITY IN FORT BEND COUNTY

[ ] **Right of Way Permit**

[X] **Commercial Driveway Permit**

Permit No: 2016-10996

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

(1) COMPLETE APPLICATION FORM:

[X] a. Name of road, street, and/or drainage ditch affected.

[X] b. Vicinity map showing course of directions

[X] c. Plans and specifications

(2) BOND:

[ ] County Attorney, approval when applicable.

[ ] Perpetual bond currently posted. Bond No: _____ Amount: _____

[ ] Performance bond submitted. Bond No: Not Required Amount: _____

[ ] Cashier's Check Check No: _____ Amount: _____

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

_____ Drainage District Approval

_____ Date

We have reviewed this project and agree it meets minimum requirements.

Charly O. Ad
Permit Administrator

6/5/17
Date

SITE CIVIL PACKAGE
FOR THE
SOUTH TRANSPORTATION EXPANSION
3151 FALCON LANDING BLVD. KATY, TX 77494

DECEMBER 2015

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VICINITY MAP
(N.T.S.)
KEY MAP - 485 S
ZIP CODE - 77494

LOCATION MAP
N.T.S.

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
1706 AVENUE D, SUITE B
KATY, TEXAS 77493
O. 832-437-7377

FORT BEND COUNTY ENGINEERING
ENGINEER: Paul J. Stangle, PE, PTOE
DATE: 1/20/16
DEVELOPMENT COORDINATOR: [illegible]
DATE: 12/16/15

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT BEEN COMMENCED (1) YEAR FROM DATE OF APPROVAL

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Revision / Date

Project: SOUTH TRANSPORTATION CENTER EXPANSION FOR KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
52996
LICENSED
PROFESSIONAL ENGINEER
12-10-15

Huckabee
ALEX · DALLAS · FORT WORTH · HOUSTON · MACON · MADISON
www.huckabee-inc.com
800-687-1224

COVER SHEET

Job No. 1701-01-01	Sheet No.
Drawn By: JS/TJV	C000
Date: 09/04/2015	

Sheet of

PLAN TRUE

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GENERAL CONSTRUCTION NOTES

1. LOCATIONS OF EXISTING UTILITIES FOR WATER LINES, STORM SEWERS, SANITARY SEWER AND LINES AND CHANNELBOND TELEPHONE CABLE AND POWER LINES ARE APPROXIMATE AND ARE BASED UPON INFORMATION OBTAINED FROM THE RECORD DRAWINGS, UTILITY COMPANIES, AND TOPOGRAPHIC SURVEYS.
2. CONTRACTOR SHALL VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONSTRUCTION AND SHALL REPORT DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
3. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES, PROPERTY, AND UNDERGROUND UTILITIES AND SHALL REPAIR ANY DAMAGE TO THE SATISFACTION OF THE FACILITY OR PROPERTY OWNER AT NO ADDITIONAL COST.
4. CONTRACTOR SHALL NOTIFY THE "CONSTLAR" (TEXAS NON-DIGGING SERVICE) TELEPHONE NO. 713-223-4567 OR 811-4-HOUR NO BEFORE STARTING ANY CONSTRUCTION ACTIVITIES.
5. ALL MATERIALS FOR PROPOSED CONSTRUCTION OR REPAIR OF EXISTING FACILITIES SHALL BE NEW PRIOR TO DIRECT PRACTICE FACTORY AND FREE FROM DEFECTS.
6. PROVIDE ALL TESTS, PLANS, SHOPS, GAUGES, GAUGES OF CALIBRATION DEVICES, TRAP PLANES, AND COMPRESSORS AS NECESSARY FOR ANALYSIS TESTS NO SEPARATE PAY.
7. WASTE MATERIAL AND EXISTING DISCARDED AGENCY NURSING CONSTRUCTION, WASTE PIPING AND SUPPLIES, CONSTRUCTION TRAMPS AND SUPPLIES EXCAVATED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR AT NO SEPARATE PAY UNLESS OTHERWISE NOTED.
8. PROVIDE TEMPORARY DIVERSIONS INCLUDED TO CONTROL REPEATED WATER AWAY FROM TRENCHES AND TO PREVENT FLOODING OF THE WORK AREA. ALL DIVERSIONS SHALL BE CONSTRUCTED IN SUCH A MANNER THAT EXISTING DRAINAGE WILL NOT BE DISCONTINUED. ALL WORK SHALL BE IN COMPLIANCE WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) REQUIREMENTS.
9. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION TRENCHES AND TUNNELS.
10. THE CONTRACTOR ON BEHALF OF THE OWNER SHALL OBTAIN ALL PERMITS AND OBTAIN ANY INFORMATION OR AGENCIES PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL PROVIDE OWNER, ARCHITECT, AND ENGINEER COPIES OF PERMITS.
11. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY LOCAL GOVERNING JURISDICTION FOR TRAFFIC MANAGEMENT PRIOR TO STARTING CONSTRUCTION.
12. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING PUBLIC OR PRIVATE UTILITY LINES, AND TO REPAIR OR REPLACE THE SAME AT HIS OWN EXPENSE. WATER COLLECTION SYSTEMS, AND SYSTEM SEWERS, IN ROAD CONSTRUCTION. ALL DAMAGE SHALL BE REPAIRED BY THE SATISFACTION OF THE OWNER AT NO EXTRA COST TO THE OWNER.
13. EXISTING PAVEMENTS, CURBS, SIDEWALKS, VEGETATION, AND DRIVEWAYS WITHIN PUBLIC RIGHTS OF WAY AND EASEMENTS WHICH HAVE BEEN DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE STANDARDS OF THE APPROPRIATE AUTHORITY AGAINST.
14. IF THE CONSTRUCTION OPERATIONS HAVE BEGUN WITHIN ONE YEAR AFTER THE PLANS HAVE BEEN APPROVED BY AND ISSUED NEW PERMITS HAS NOT BEEN OBTAINED AND LETTER OF AN ALL SAFETY MUST BE SUBMITTED IF DELAY WAS DUE TO THE CONTRACTOR. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE INFORMATION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIAL AND EQUIPMENT IN A SAFE AND ORDERLY FASHION TO PREVENT HAZARDS DURING AND AFTER WORKING HOURS. ALL MATERIALS SHALL BE STORED ON THE PROPERTY AS MUCH AS PRACTICABLE FOR THEIRS MATERIALS.
16. ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
17. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THAT WINDOWS OF BUILDINGS, PLANTS, AND TREES TO REMAIN IN WORK AREA. SEE LANDSCAPE PLANS OR PHOTOS OR ALSO EXISTING GREENHOUSE CONDITIONS.
18. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORITIES HAVING WORK, PUBLIC EMPLOYEES, AND PERSONS IN CHARGE OF STREET AND PARKS AND OTHER PUBLIC WORKS AND ALL OTHERS PRIOR TO STARTING WORK, INCLUDING BUT NOT LIMITED TO POLICE DEPARTMENT, SCHOOL BOARD, SOLID WASTE, GAS, UTILITY COMPANIES, OR CITY ENGINEER.
19. CONTRACTOR SHALL INFORMATION SHALL ALL DISTURBED AREAS STATED OTHERWISE SHALL BE SEEDED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS FOR ESTABLISHING A STAND OF GRASS (STD. DIVISION 6) BEFORE FINAL ACCEPTANCE.
20. CONTRACTOR SHALL OBTAIN ALL TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS CURRENTLY AMENDED. SHALL BE ORDERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAGGING, BARRICADES, SIGNAGE AND WARNING DEVICES, ETC. DURING CONSTRUCTION BOTH DAY AND NIGHT.
21. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING HAZARDOUS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF PUBLIC PUBLIC ACCESS.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT ON ALL MANHOLES, SILT GRADING, VALVES, PLUGS OF ALL TYPE, VALVES, INTERCEPTS, MANHOLES AND OTHER SUCH PARTS OF THE SYSTEM AS NECESSARY WHEN THE MANDATORY TRENCH RECOMMENDED PRACTICES AND PROJECT, ON AT ALL TIMES PERFORMED ACCORDING TO ALL OSHA REGULATIONS. DAMAGE TO THE MATERIAL, IF SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TRANSPORT AT THE POINT OF DELIVERY AND TO REPAIR ALL DAMAGE TO THE PROJECT MATERIAL WHICH MAY BE DUE TO INSUFFICIENT MANAGEMENT.
23. CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN AREAS DESIGNATED AS WETLANDS UNTIL ALL NECESSARY PERMITS ARE APPROVED.
24. ALL WORK ON THE PUBLIC RIGHT-OF-WAY SHALL ADHERE TO THE STANDARDS OF THE LOCAL GOVERNING AUTHORITIES.
25. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SECURE AND SAFE PROJECT SITE 24 HOURS A DAY, 7 DAYS A WEEK.
26. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING CONSTRUCTION FENCING TO PROTECT THE ENTIRE SITE.
27. THE CONTRACTOR SHALL CLEAN MUD, DIRT, AND DEBRIS FROM ADJACENT STREETS ON OR UPON EVERY DAY FROM THE CONSTRUCTION ACTIVITIES ON A DAILY BASIS.
28. CONTRACTOR SHALL PROVIDE A SET OF "AS-BUILT" DRAWINGS SHOWING ANY FIELD CHANGES MADE TO THE APPROVED CONSTRUCTION DRAWINGS TO THE ENGINEER AND/OR LOCAL GOVERNING AUTHORITY AS APPLICABLE.
29. IF ANY CONFLICTS EXIST BETWEEN THESE PLANS, SPECIFICATIONS, OR GOVERNING THE MORE STRINGENT SHALL APPLY.
30. CIVIL PLANS, SHEET DETAILS, AND SPECIFICATIONS ARE NOT FOR ARCHITECTURAL PROPOSED BUILDING SHALL CONSTRUCTION. INCLUDE KEEPING PRECLEAN AND CAPPING, OR DISMANTLE SPECIFICATIONS TO EXISTING OBJECTS FOR SPECIAL EFFECTS, SIGNALS OR OTHER PLACES OF CONTAMINATION FROM UNPAVED PIPE, AND WHEN CONSTRUCTION IS NOT IN PROGRESS.
31. ALL WATER LINES, AFTER INSTALLATION, SHALL BE THOROUGHLY DISINFECTED ACCORDING TO AWWA SPECIFICATIONS C651-651-3000 (Revised 2005) BEFORE BEING PLACED INTO SERVICE. WATER SAMPLES WILL BE COLLECTED FOR BACTERIOLOGICAL ANALYSIS AND SENT SEPARATE REPORTS PRIOR TO PLACING THE DISINFECTED SERVICE.
32. LOCATION OF TEST CHECK AND LARGER WATER LINES IN CONFORMANCE WITH SPECIFICATION 9 THE PREFERRED AS FOLLOWS:
   A. FIRE SPRINKLER (FIRE) 300 FT
   B. ALL OTHER WATER LINES: 10 FT
33. CENTER OF FIRE HYDRANT TO BE LOCATED 3 FEET FROM BACK OF CURB
34. UTILITY COLOR OF THE HYDRANT FIRE HYDRANTS AND MAKE FINAL ADJUSTMENTS AFTER COMPLETION OF PAVING. NO SEPARATE PAY.
35. CONTRACTOR SHALL INSTALL ADDITIONAL FITTINGS AS NEEDED TO ENSURE THAT THE MAXIMUM DEFLECTION IS NOT EXCEEDED. NO SEPARATE PAY.
36. CONTRACTOR SHALL INSTALL METALLIC TRACER WIRE ON ALL UNDERGROUND PIPING AND SECURE WIRE ENDS AT ALL VALVE BOXES.

SITE CLEARING AND GRADING CONSTRUCTION NOTES:

1. PROJECT AREA IS TO BE TRANSPORTED THE TRANSPORT AS DIRECTED BY THE ENGINEER. ALL LOCATIONS (APPROXIMATELY AND ROUGH) BUILDINGS, DRAINS, AND OTHER STRUCTURES, MATERIAL TO BE DISPOSED OF OFF PROJECT SITE. ACCEPTABLE DUMPING - EXISTING DUMPS. THAT MEETS PROJECT SPECIFICATIONS MAY BE STOCKPILED ON SITE FOR BY THE ENGINEER OTHERWISE SHALL BE REMOVED FROM ALL AND NO ADDITIONAL COST TO OWNER. FROM THAT DISTRIBUTION THAT SHALL BE REMOVED BEFORE.
2. CONTRACTOR TO REMOVE ALL TREES AND BRUSH INDICATED TO BE REMOVED BEFORE STARTING MAIN SOIL BALL, AND ROOT SYSTEMS TO BE DESIGNED WHICH ALLOW EXISTING GRADE, APPLY MARKER TO REMAINING TREES TO PROTECT DURING.
3. CONTRACTOR TO CUT AND REMOVE ALL TREES AND BRUSH WITHIN THE BUILDING WITHOUT DISTURBING SURROUNDING.
4. PAVING SUBGRADE PREPARATIONS TO BE IN CONFORMANCE WITH THE GEOTECHNICAL AREA REPORT, PROJECT SPECIFICATIONS, AND SUBMITTED PLANS. SHORT STEPPING IS ALLOWED. CONTRACTOR SHALL INFORMATION UNDERGROUND REPORT FOR RECOMMENDATIONS AND STABILIZATION. MATERIAL, GRADING, AND SHAPE OF SUBGRADE.
5. CONTRACTOR SHALL CUT AND FILL SITE AS REQUIRED TO OBTAIN FINISHED ELEVATIONS SHOWN ON PLANS. UNSUITABLE PROJECT MATERIAL, IS TO BE STABILIZED OR REMOVED FROM SITE AS PER ITEM 4 ABOVE AND IN COORDINATION WITH SOILS REPORT REQUIREMENTS. MAXIMUM SLOPE IS TO BE 3:1. ALL REQUIREMENTS OF PROJECT SPECIFICATIONS FOR EARTHWORK SHALL BE MET.
6. CONTRACTOR TO PROVIDE TEMPORARY MEANS FOR TO CONTROL STORM WATER DURING CONSTRUCTION AS REQUIRED TO AVOID EROSION AND TO MEET STORM REQUIREMENTS.
7. EXCAVATION OVER SIZE IS TO BE FILLED AND MADE SATISFACTORY PRIOR TO FILL. THE SURFACE AREA SHALL BE TO CLEAN, UNIFORM, AND SUBSURFACE FOR SOIL. FILL TO BE ACCEPTABLE AND THE TOP OF FINISHED SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D-698.
8. THE FILL SHALL BE PLACED IN ACCEPTABLE LIFTS NOT EXCEEDING 8 INCHES AND COMPACTED TO REPLACE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698. THE MAXIMUM CONTENT OF COMPACTION OF THE PROJECT SITE SHALL BE AS ESTABLISHED BY THE GEOTECHNICAL ENGINEER.
9. TREE-SITE (FOOTPRINTS) AS SHOWN ON SHEET, AND LABELED EVERY TWO FEET "NON POTABLE WATER", AND SHALL BE PVC TYPE 100 PSI, DR 18, PER AWWA C900.

TABLE
PROTECTION OF REQUIREMENTS AT
WATER LINE - SANITARY SEWER CROSSINGS

	PROPOSED WATER LINE				PROPOSED SANITARY SEWER			
	OVER		UNDER		OVER		UNDER	
	18"	24"	18"	24"	18"	24"	18"	24"
MINIMUM 2 FEET VERTICAL CLEARANCE	X	X	X	X	X	X	X	X
PLACE 1 FULL SECTION OF WATER LINE PIPE AT SEWER CROSSING PROVIDE ADDITIONAL SUPPORT AS REQUIRED	X	X	X	X	X		X	
PLACE 1 FULL SECTION OF WATER LINE PIPE AT SEWER CROSSING PROVIDE ADDITIONAL SUPPORT AS REQUIRED		X				X	X	
PLACE 1 FULL SECTION OF WATER LINE PIPE AT SEWER CROSSING PROVIDE SUPPORT AS REQUIRED, SPACED AT LEAST 9 FT APART, PLACE 2 FULL LENGTHS OF PIPE		X				X	X	
REPLACE 1 FULL SECTION OF SEWER WITH PRESSURE RATED (PR) PIPE PRESSURE RATED PIPE WITH ADAPTERS AND PROVIDE SUPPORT AS REQUIRED	X [1,2]		X [1]	NOT ALLOWED				
PROVIDE OF PIPE SHALL DIAMETER AS GIVEN THAN 24 INCHES, PVC SHALL ACCEPTED BY THE ENGINEER		X		X	X		X	
EQUIPMENT SHALL BE USED FOR THE INSTALLATION OF THE SEWER PIPE FULL 1 FOOT BEYOND EACH SIDE OF THE SEWER PIPE AND ADJACENT	X [2]	X [4]	X [1]	X [4]		X [4]	X [1]	X [1]
PLACE 1 FULL SECTION (20FT) OF WATER LINE CENTERED AT THE CROSSING WITH 2 FULL LENGTHS OF PIPE, SPACED AT LEAST 9 FT APART, PLACE 2 FULL LENGTHS OF PIPE		X		X	X		X	

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]

WATER SYSTEM CONSTRUCTION NOTES:

1. WATERS AND BACKFLOW DEVICES SHALL BE TO A MIN DIAMETER OF 1 INCHES ABOVE FINISH GRADE AND WITH A SPECIFIED SHALL TO DIRECT FLOWS WITH A SMALL FRONTAGE, SHALL BE SHALL BE AND WITH A MINIMUM 1 INCHES OF CLEARED 1 FEET ABOVE GRADE AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
2. FOR APPLICABLE THE SHALL BE INSTALLED AND TESTED BY A CERTIFIED TESTER IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS AMENDED. LABOR, MATERIALS, EQUIPMENT, AND SHALL FOR SIGNS FOR CONTRACTORS TO INSTALL AND TEST CERTIFICATE THE CONTRACTOR SHALL PROVIDE TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY.
3. ALL PVC PIPE USED IN WATER SYSTEMS SHALL MEET THE NATIONAL SANITATION FOUNDATION STANDARD OF APPROVED.
4. WATER LINE PIPE AND FITTINGS MATERIALS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON PLANS:
   A. LESS THAN 12 INCHES AND 4 INCHES SHALL BE SCHEDULE 40 PVC 1120, FOR AWWA C900 SHALL BE PVC FIRE PIPE SHALL BE SCHEDULE 40 PVC 1120 FOR FIRE WATER MAY BE SDR 21 PVC C900 PSI, 2 TO GASKETED JOINTS.
   B. 4 INCH AND LARGER POTABLE WATER LINE SHALL BE AWWA C900, DR 18, CLASS 150 PVC
   C. FIRE SPRINKLER LINE SHALL BE AWWA C900 DR 18, CLASS 150 PVC
   D. 4 INCH FIRE LINE SHALL BE PVC PIPE, 4 INCH FIRE WATERLINE SHALL BE ASTM D 1785 SCHEDULE 40 PVC THREADED FITTINGS SHALL BE SCHEDULE 40 PVC ASTM D 2467
   E. FITTINGS FOR 2 INCH AND LARGER WATER LINE SHALL BE ALL MELL, PUSH-ON DUCTILE IRON MECHANICAL JOINT FITTINGS WITH MEGA LITE.
5. VALVES:
   A. 2 INCHES AND SMALLER SHALL BE ALL BRASS, BRASS STOCK, SINGLE WEDGE, DISC TYPE, SCREWED END, TRIM NO. 1000 APPROVED FITTING.
   B. 3 INCH THRU 12 INCH VALVES SHALL BE IRON BODY, DOUBLE DISC, NON-RISING STEM, 250 PSI, SHALL BE AS SHOWN ON PLANS AND SPECIFICATIONS. CONTRACTOR TO VERIFY AT THE FINAL INSPECTION AND OWNER CONFIRMING DRAWING.
   C. 3 INCH AND LARGER VALVES SHALL BE, BUT NOT LIMITED TO, WATER SYSTEMS AWWA C500 C509, PLUG VALVE SHALL BE WITH RUBBER JOINT RESILIENT SEAT, 250 PSI. TESTING, EVACUATION SHALL BE IN ACCORDANCE WITH AWWA OWNER ON OPENING DIRECTION.
6. POLYETHYLENE WRAP ALL CAST AND DUCTILE IRON PIPE AND FITTINGS PER SPECIFICATIONS.
7. WATER LINES SHALL HAVE A MINIMUM DEPTH OF 4 FEET BELOW NATURAL GROUND, FROM GRADE, OR MEAN TEMPERATURE OF NEARBY DITCH. WITHIN ITEM 8 LOWER. CONTRACTOR SHALL PROVIDE THRUST BLOCKING WITH MIN 2500 PSI CONCRETE THRUST BLOCKING AT TEES.
8. SEPARATION DISTANCES FOR ALL WATER MAINS AND SANITARY SEWER MAINS LOCATED UNDER ASTM D2241 PVC PIPE SHALL MEET TO OPEN CONTRACTOR TO VERIFY AT THE FINAL INSPECTION AND OWNER CONFIRMING DRAWING.
9. WHERE A DOUBLE WATERLINE CROSSES A SANITARY SEWER, INSTALL ONE JOINT (MINIMUM 18 FOOT LENGTH) OF WATER PIPE CENTERED ON THE CROSSING.
10. CONTRACTOR SHALL USE SANITARY PRECAUTIONS DURING WATERLINE CONSTRUCTION AS CALLED FOR BY AWWA STANDARDS. PRECAUTIONS SHALL INCLUDE KEEPING PRECLEAN AND CAPPING, OR DISMANTLE SPECIFICATIONS TO EXISTING OBJECTS FOR SPECIAL EFFECTS, SIGNALS OR OTHER PLACES OF CONTAMINATION FROM UNPAVED PIPE, AND WHEN CONSTRUCTION IS NOT IN PROGRESS.
11. ALL WATER LINES, AFTER INSTALLATION, SHALL BE THOROUGHLY DISINFECTED ACCORDING TO AWWA SPECIFICATIONS C651-651-3000 (Revised 2005) BEFORE BEING PLACED INTO SERVICE. WATER SAMPLES WILL BE COLLECTED FOR BACTERIOLOGICAL ANALYSIS AND SENT SEPARATE REPORTS PRIOR TO PLACING THE DISINFECTED SERVICE.
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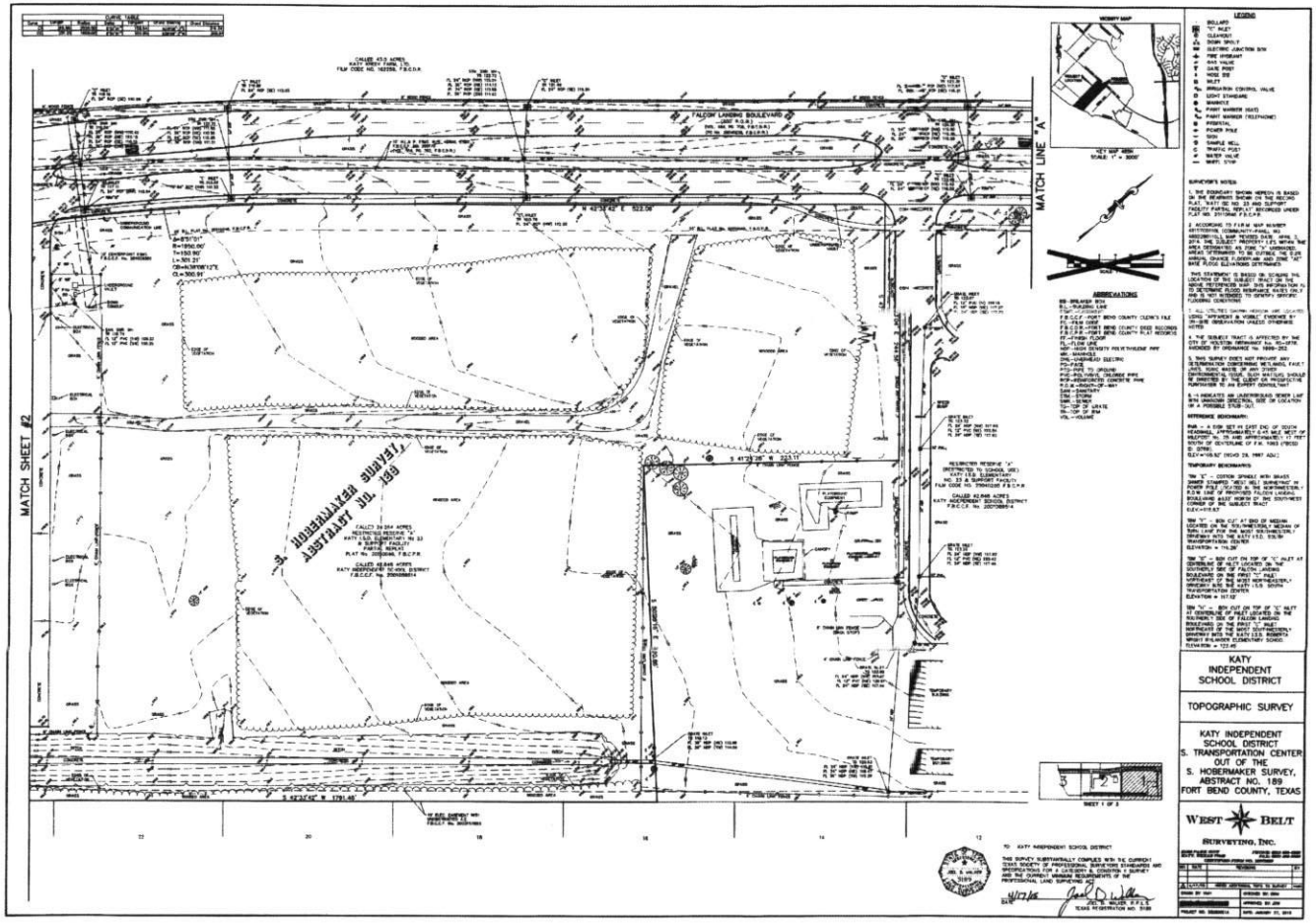
15. CONTRACTOR SHALL INSTALL ADDITIONAL FITTINGS AS NEEDED TO ENSURE THAT THE MAXIMUM DEFLECTION IS NOT EXCEEDED. NO SEPARATE PAY.
16. CONTRACTOR SHALL INSTALL METALLIC TRACER WIRE ON ALL UNDERGROUND PIPING AND SECURE WIRE ENDS AT ALL VALVE BOXES.

SANITARY SEWER SYSTEM CONSTRUCTION NOTES:

1. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER PIPE IN THIS PROJECT SHALL BE ASTM D-2241, SDR 26 PVC PIPE WITH ELASTOMERIC SEAL JOINTS. IN ACCORDANCE WITH ASTM D-3212 AND GASKETS PER ASTM F-477. PRIOR TO SHIPMENT WATER STOP GASKET MANUFACTURER MUST SUBMIT DIRECT SAMPLE TO ENGINEER.
2. ALL FLEXIBLE AND NON-FLEXIBLE SEWER PIPE TO BE INSTALLED BY PROPERLY CERTIFIED PIPE INSTALLERS AFTER BACKFILL OPERATIONS ARE COMPLETED AND PRIOR TO FINAL TESTING OF SANITARY SEWER SYSTEM. TEST FOR DEFLECTION BY MEANS OF MANDREL. MANDREL SHALL BE PULLED THROUGH PIPE BY HAND. MANDREL SHALL BE 95% OF PIPE INSIDE DIAMETER. MANDREL SHALL BE ACCEPTABLE IF THE MANDREL PASSES THROUGH THE PIPE BEING TESTED. MANDREL SHALL BE MANUFACTURED WITH A MINIMUM SEVEN (7) ARMS, WITH EACH SUPPORT HAVING A MINIMUM OF 1 INCHES LONG. CONTRACTOR TO PROVIDE AN APPROVED TRIDENT KEY FOR MANDREL DEVICE. ANY PIPE NOT ATTAINED THIS REQUIREMENTS SHALL BE REMOVED AND REPLACED AT CONTRACTORS EXPENSE.
3. THE CONTRACTOR SHALL USE PRECAST SEWER MANHOLES AND INSTALL PRECAST SEWER MANHOLES IN ACCORDANCE WITH ASTM C-478 AND ASTM C-443 AND ASTM C-923 AND ASTM C-990 AND ASTM C-1244 AND ASTM C-1759 AND ASTM C-1833 AND ASTM C-1917 AND ASTM C-1917 AND ASTM C-1917



T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC

*REFERENCE ONLY

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

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Revision / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

Huckabee

TOPOGRAPHIC SURVEY (SHEET 1 OF 3)

Job No. 1701.01-01

Sheet No. C002

Drawn By: RK / DLY

Date: 09/24/2015

Sheet of

Plot Created: Dec 16, 2015 at 3:21:34 pm User Name: _____ South Texas Region \ 1701.01-01 \ 01 PROFILE\ PROJ SURVEY \ C3F.dwg
Location: X:\Projects\Huckabee\1701.01-01 Katy ISD\

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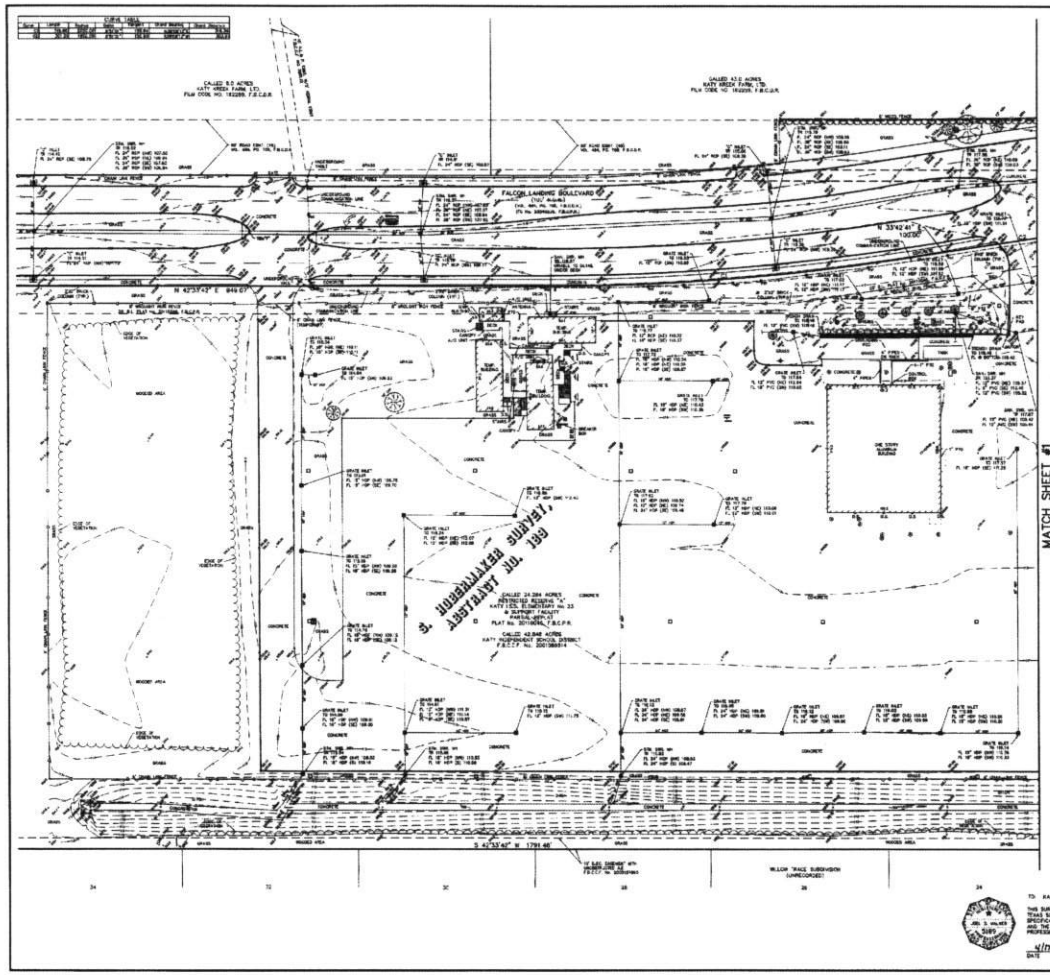

Revision / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

Huckabee

TOPOGRAPHIC SURVEY
(SHEET 2 OF 3)

Job. No. 1107-03-01
Sheet No. C003
Drawn By: JH / GLT
Date: 06/04/2015
Sheet of

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
1790 AVENUE D, SUITE B
KATY, TEXAS 77493
M. 832-403-1977

*REFERENCE ONLY

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

17 Nov 2015, A.2750 (Letter)
G:\Jobs\2015\Huckabee\1107-03-01 South Trans Bldg\ACAD\ACAD TOPOGRAPHIC SURVEY 2 OF 3.dwg

This Contour Line in 2.1 is 1.2 in Lower Area
Location: X:\Project Files\Huckabee\1107-03-01 Katy ISD South Trans Bldg\ACAD\ACAD TOPOGRAPHIC SURVEY 2 OF 3.dwg

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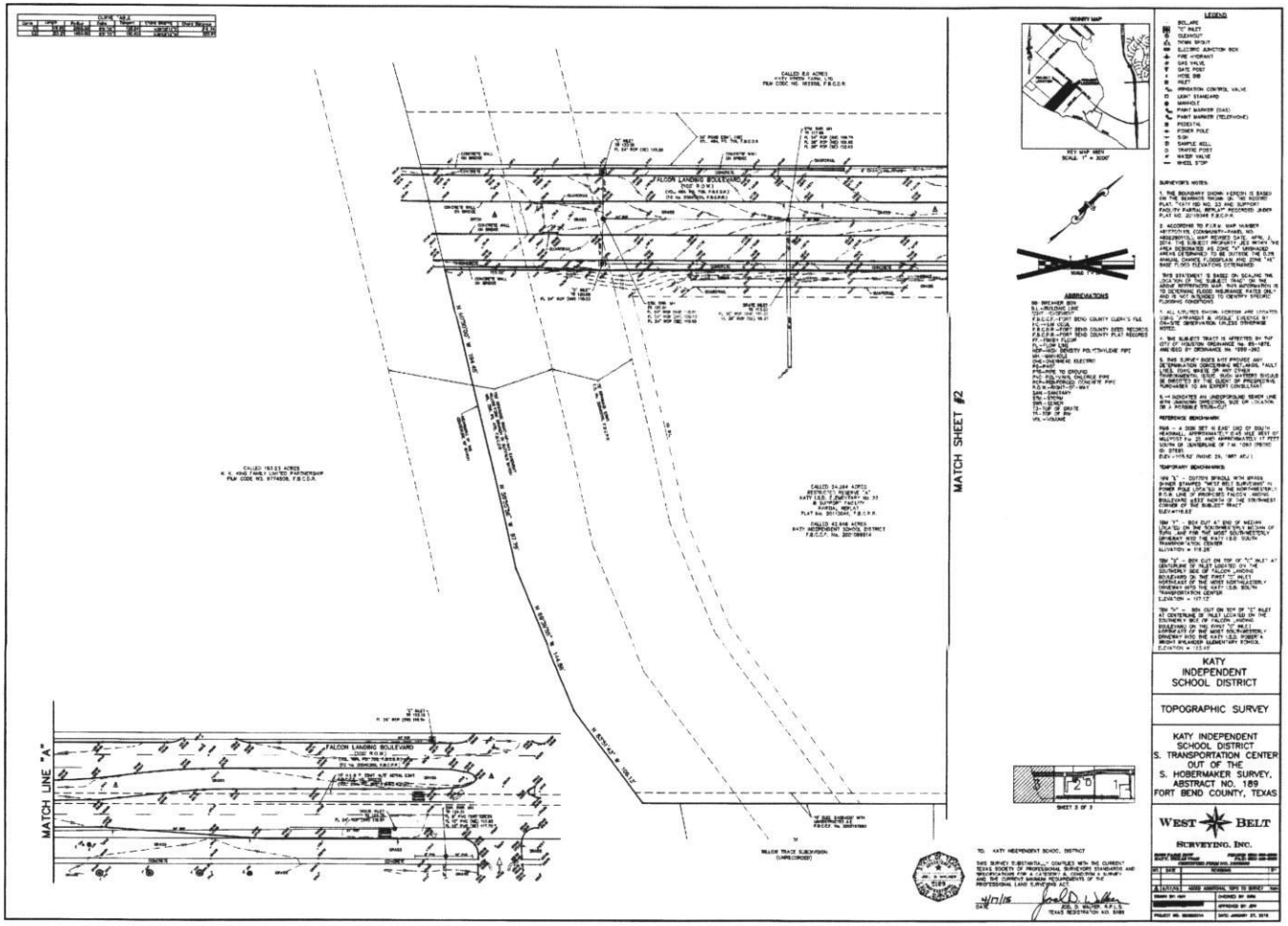

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC

*REFERENCE ONLY

APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

Revision / Date

Project: SOUTH TRANSPORTATION CENTER EXPANSION FOR KATY ISD 3151 FALCON LANDING BLVD. KATY, TX 77494

Huckabee

TOPOGRAPHIC SURVEY (SHEET 3 OF 3)

Job No. 1701-09-01

Drawn By: BF/DLY

Date: 06/26/2015

Sheet No. C004

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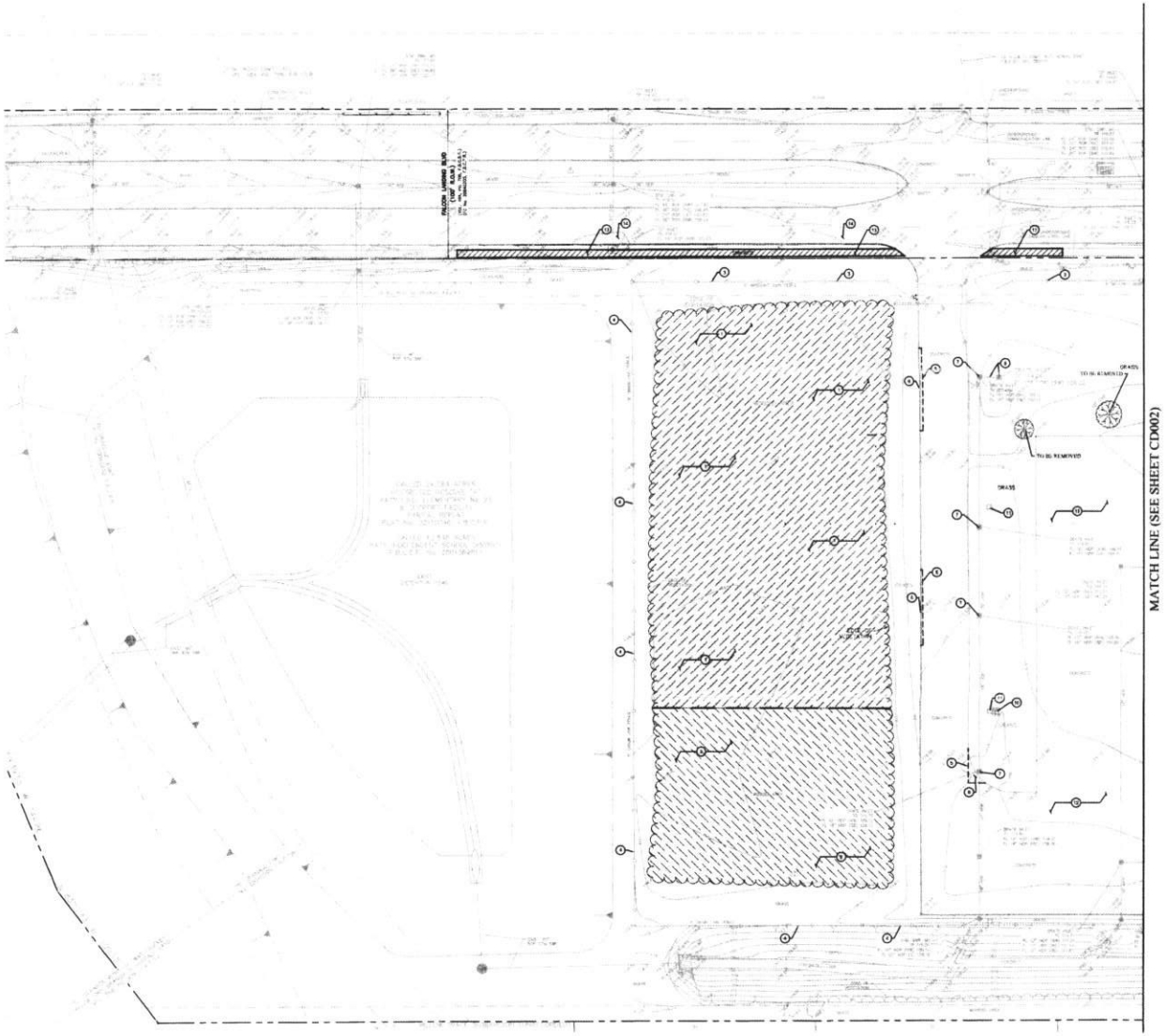

LEGEND:

SYMBOL	DESCRIPTION:
	EXISTING TREE / LANDSCAPING DEMOLITION
	EXISTING FENCE/ GATE DEMOLITION
	EXISTING SIDEWALK DEMOLITION
	PROPOSED FULL DEPTH SAWCUT

KEY NOTES:

1. AREA TO BE FULLY CLEARED AND GRUBBED FOR PROPERTY CONSTRUCTION.
2. CONTRACTOR SHALL CLEAR OUT ALL UNDERGROUND DEAD TREES AND TREE STUMPS TRUNKS 3" IN DIAMETER. ALL TREES GREATER THAN 3" IN DIAMETER TO REMAIN.
3. EXISTING WROUGHT IRON FENCE TO REMAIN.
4. EXISTING PARKING LINE TO REMAIN.
5. PROPOSED FULL DEPTH SAWCUT.
6. EXISTING CURB TO BE REMOVED FOR DRIVEWAY CONSTRUCTION.
7. EXISTING INLET TO REMAIN. TOP TO BE ADJUSTED.
8. EXISTING INLET AND STORM SEWER TO BE REMOVED.
9. EXISTING PAVEMENT TO BE REMOVED.
10. REMOVE EXISTING ELECTRICAL JUNCTION BOXES AND REPLACE WITH TRAFFIC DUTY JUNCTION BOXES. EXISTING CONDUITS TO REMAIN.
11. EXISTING LIGHT POLE(S) TO REMAIN.
12. ALL EXISTING STRIPING TO BE REMOVED. EXISTING CONCRETE TO BE POWER WASHED CLEANED AND PREPARED FOR NEW STRIPING.
13. EXISTING SIDEWALK TO BE REMOVED.
14. REFERENCE SHEETS C00-C03 FOR DEMOLITION WORK PLANS.

NOTES TO SHEET:

1. REFERENCE SHEETS C00-C03 FOR ALL WORK IN PUBLIC ROW.
2. REFERENCE SWP PLANS FOR ALL ELECTRICAL GAS, TELEPHONE AND FIBER DEMOLITION.
3. PRIOR TO TREE DEMOLITION, CONTRACTOR SHALL WALK SITE WITH OWNER, ARCHITECT AND ENGINEER, AND FLAG SPECIMEN TREES TO REMAIN.

BENCHMARK:

BM - A DISK SET IN EAST END OF SOUTH HEADWALL APPROXIMATELY 0.41 MILE WEST OF MILEPOST No. 25 AND APPROXIMATELY 17 FEET SOUTH OF CENTERLINE OF FM 529 (PACIFIC RD. OPNS).
ELEV. = 69.32' (NAVD 29, 1988 ADJ.)

TEMPORARY BENCHMARKS:

TBM "2" - CUTTON SPINDLE WITH BRASS DISKETE STAMPED "WEST HOLT SURVEYING" TO POWER POLE LOCATED AT THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD, JUST NORTH OF THE SOUTHEAST CORNER OF THE SUBJECT TRACT.
ELEV. =[illegible]

TBM "P" - BOX CUT AT END OF MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER.
ELEV.=[illegible]

TBM "D" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE EAST "C" INLET NORTHEAST OF THE MOST NORTHERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER.
ELEVATION = [illegible]

TBM "H" - BOX CUT ON TOP OF "H" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD ROBERTA WRIGHT EVANDER ELEMENTARY SCHOOL.
ELEVATION = 125.49

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NUMBER 48201C0120L COMMUNITY-PANEL NO. 480296 0120L, MAP REVISED DATE APRIL 2, 2014, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED AREA OF MINIMAL OR NO SIGNIFICANT FLOOD HAZARD, OUTSIDE OF 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" WITH BASE ELEVATIONS DETERMINED.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODPLAIN CONDITIONS.

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T.B.P.E. FIRM #15114

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O: 832-375-7127

APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

Revision / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
92996
LICENSED
PROFESSIONAL ENGINEER
12-16-15

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DEMOLITION PLAN
(SHEET 1 OF 3)

Job No.	Sheet No.
Drawn By:	CD001
Date:	

Sheet of

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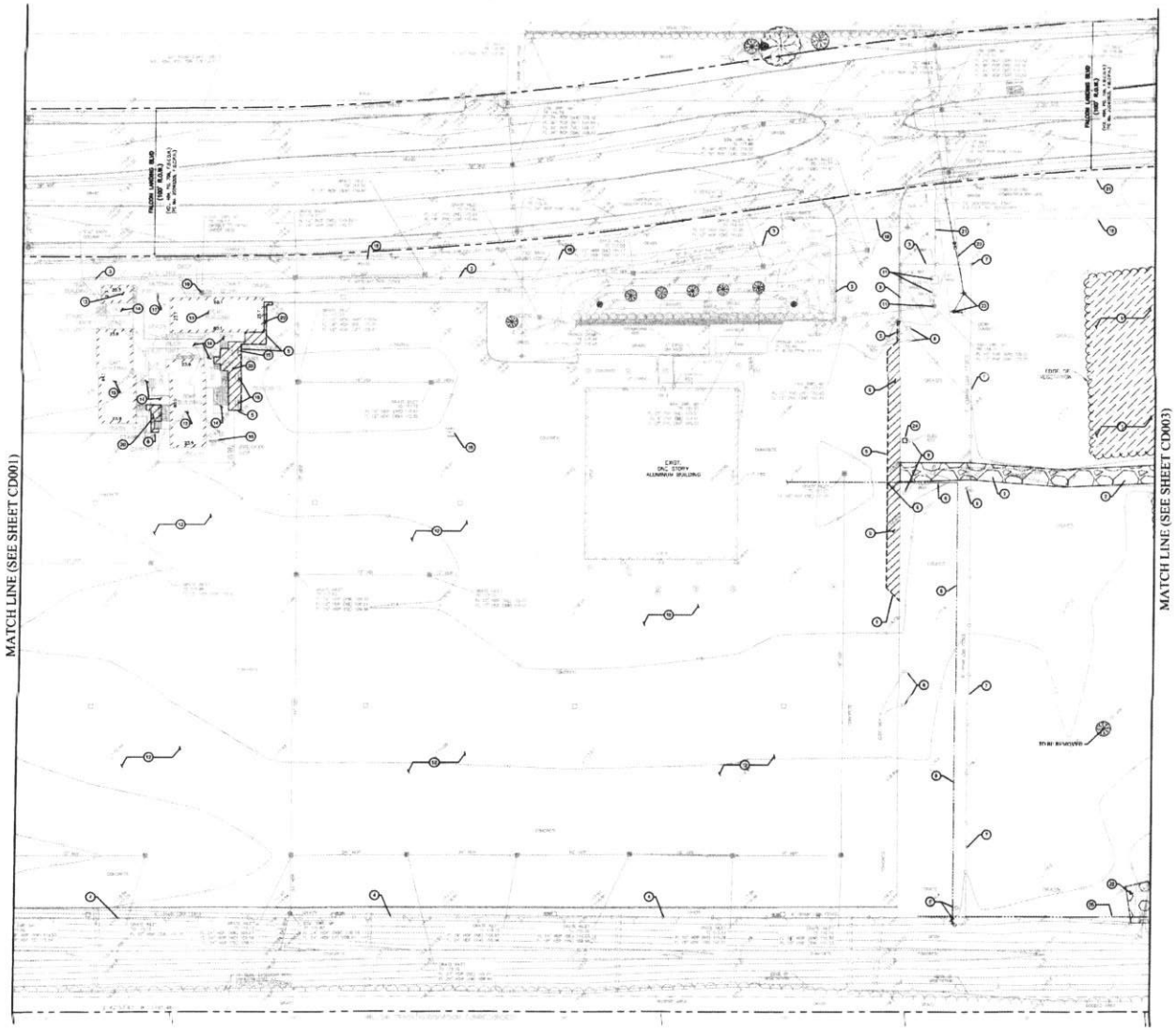

SCALE: 1"=30'

LEGEND

SYMBOL	DESCRIPTION
	EXISTING CONCRETE / ASPHALT / SIDEWALK DEMOLITION
	EXISTING GRAVEL DEMOLITION
	EXISTING DITCH / SWALE DEMOLITION
	EXISTING TREE / LANDSCAPING DEMOLITION
	PROPOSED FULL DEPTH SAWCUT

KEY NOTES:

1. AREA TO BE FULLY CLEARED AND GRUBBED FOR PROPOSED CONSTRUCTION.
2. EXISTING GRAVEL ROAD TO BE REMOVED DISPOSE OF DEBRIS OFF SITE AS PART OF WORK.
3. EXISTING WROUGHT IRON FENCE TO REMAIN.
4. EXISTING 6' CHAIN LINK FENCE TO REMAIN.
5. PROPOSED FULL DEPTH SAWCUT.
6. EXISTING GAS LINE, METER AND VALVE TO BE REMOVED. NOTE: GAS LINE IS SHOWN IN AN APPROXIMATE LOCATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING GAS LINE. REFERENCE MEP PLANS.
7. EXISTING CHAINLINK FUNCE TO BE REMOVED.
8. EXISTING ELECTRICAL JUNCTION BOX TO BE REMOVED AND REPLACED WITH A HEAVY DUTY JUNCTION BOX. EXISTING CONDUITS TO REMAIN.
9. EXISTING PAVEMENT TO BE REMOVED.
10. EXISTING POWER POLES AND ELECTRICAL TO BE REMOVED & RELOCATED. SEE MEP PLANS FOR DETAILS.
11. EXISTING SANITARY SEWER LIFT STATION AND MANHOLE TO REMAIN.
12. ALL EXISTING STRIPING TO BE REMOVED. EXISTING CURB RUST TO BE POWER WASHED, CLEANED AND PREPARED FOR NEW STRIPING.
13. EXISTING TEMPORARY BUILDING TO REMAIN DURING CONSTRUCTION. AFTER PROPOSED BUILDINGS ARE COMPLETE AND READY FOR MOVE IN, OWNER WILL REMOVE TEMPORARY BUILDINGS. CONTRACTOR SHALL DISCONNECT ALL UTILITIES TO BUILDINGS. COORDINATE WITH OWNER.
14. BEFORE TEMPORARY BUILDINGS ARE REMOVED, CONTRACTOR SHALL REPAIR THE EXISTING WOOD DECKING AND CANOPIES.
15. EXISTING WOOD STEPS AND ADA RAMP TO BE REMOVED.
16. REFERENCE MEP PLANS FOR DETAILS AND TIMING OF EXISTING ELECTRICAL DEMOLITION.
17. AFTER REMOVAL OF TEMPORARY BUILDINGS, EXISTING 3" BACKFLOW TO BE REMOVED. NOTE: KATY ISD WILL TAKE POSSESSED BACKFLOW FOR REUSE. AFTER REMOVAL OF BACKFLOW, CUT AND PLUG EXISTING 3" MAIN.
18. EXISTING 12" WATER LINE, FIRE HYDRANTS AND VALVES TO REMAIN.
19. AFTER REMOVAL OF TEMPORARY BUILDINGS, CONTRACTOR SHALL REMOVE ALL UNDERGROUND SANITARY LINES IN AREA. FILL TRENCHES WITH SELECT FILL AND COMPACT TO 95% STD PROCTOR DENSITY. PLUG EXISTING CONNECTION TO SANITARY SEWER MANHOLE. MANHOLE TO REMAIN.
20. EXISTING SIDEWALK / CONCRETE PATIO TO BE REMOVED.
21. EXISTING SANITARY SEWER FORCE MAIN TO REMAIN.
22. EXISTING SWALE TO BE FILLED WITH ON SITE MATERIAL AND COMPACTED TO 95% STD PROCTOR DENSITY.
23. EXISTING POWER POLES AND ELECTRICAL LINES TO BE REMOVED AND RELOCATED. SEE MEP PLANS FOR DETAILS.
24. EXISTING LIGHT POLE TO BE REMOVED. REPLACED / RELOCATED BY MEP PLANS.
25. EXISTING GAS LINE TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND DEPTH. ADJUST EXISTING GAS LINE AS REQUIRED FOR CONSTRUCTION.

NOTES TO SHEET:

1. REFERENCE SHEETS CD01-CD03 FOR ALL MOPE IN PUBLIC ROW.
2. REFERENCE MEP PLANS FOR ALL ELECTRICAL, GAS, TELEPHONE AND FIBER DEMOLITION.

BENCHMARK:

[illegible]

TEMPORARY BENCHMARKS:

TBM "A" - [illegible]

TBM "B" - [illegible]

TBM "C" - [illegible]

TBM "D" - [illegible]

FLOODPLAIN NOTE:

[illegible]

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APPROVED: [signature] DEVELOPMENT COORDINATOR

DATE: 12/21/15

N PLAN TRUE

Revisions / Date

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYMORE
92095
LICENSED
PROFESSIONAL ENGINEER
12-16-15

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DEMOLITION PLAN
(SHEET 2 OF 3)

Job No. 130.01.01
Drawn By: JH / GLY
Date: 09/24/2015
Sheet No. CD002
Sheet of

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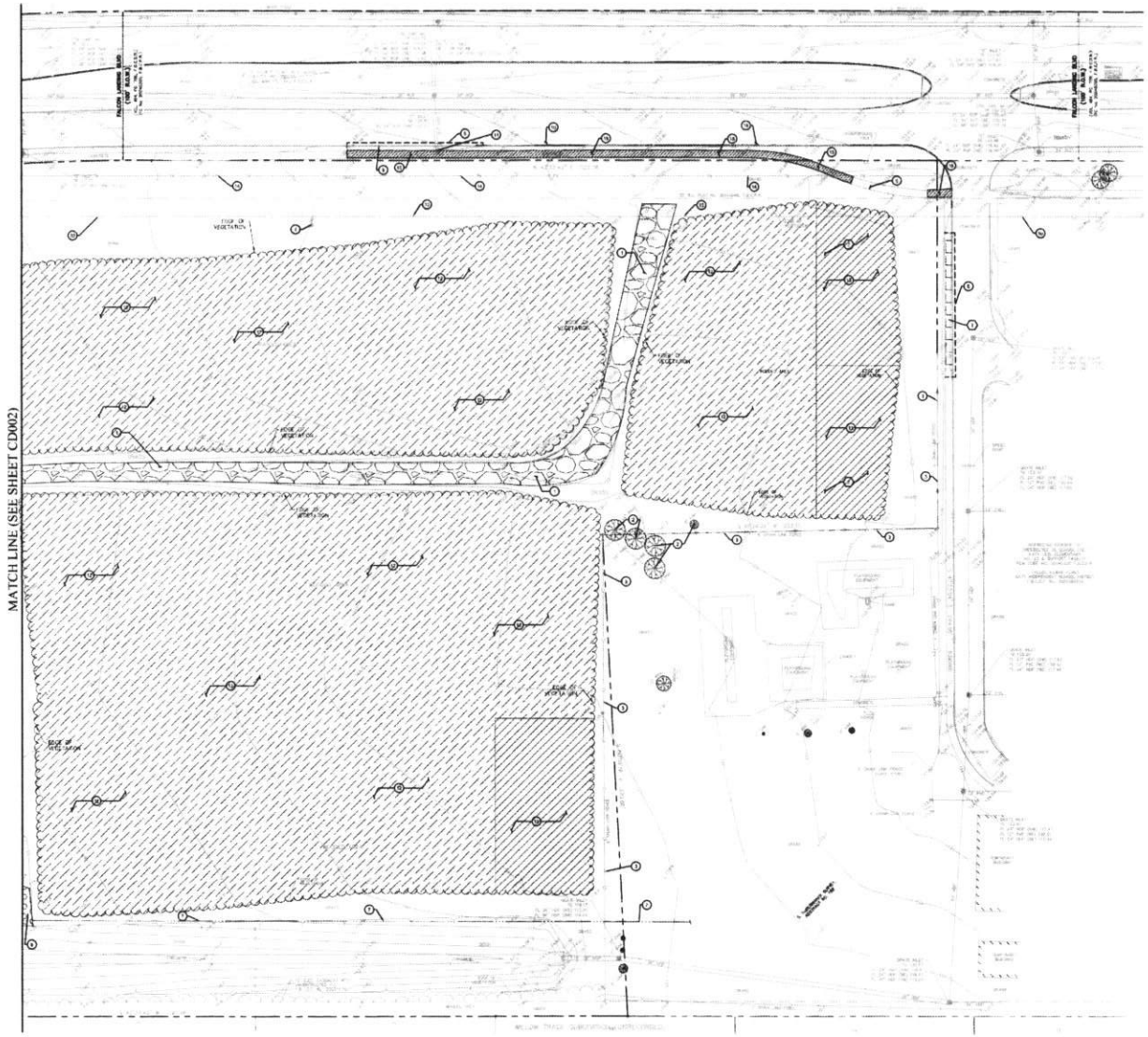

LEGEND

SYMBOL	DESCRIPTION
	EXISTING SIDEWALK DEMOLITION
	EXISTING GRAVEL DEMOLITION
	EXISTING DITCH / SWALE DEMOLITION
	EXISTING TREE / LANDSCAPING DEMOLITION
	PROPOSED FULL DEPTH SAWCUT

KEY NOTES:

1. EXISTING GRAVEL ROAD TO BE REMOVED. DISPOSE OF DEBRIS OFF SITE AS PART OF WORK.
2. EXISTING TREE(S) TO REMAIN.
3. EXISTING CHAIN LINK FENCE TO REMAIN.
4. EXISTING FIRE HYDRANT TO BE REMOVED AND RELOCATED. EXISTING VALVE TO REMAIN.
5. PROPOSED FULL DEPTH SAWCUT.
6. EXISTING SIDEWALK TO REMAIN.
7. EXISTING GARLENE TO REMAIN. CONTRACTOR SHALL PERFORM VERIFICATION OF LOCATION AND DEPTH. ADJUST EXISTING GAS LINE AS REQUIRED FOR CONSTRUCTION. REFER GAS MAP PLANS.
8. EXISTING SWALE TO BE FILLED WITH ON-SITE MATERIAL AND COMPACTED TO 95% STD PROCTOR DENSITY.
9. EXISTING CURB TO BE REMOVED FOR DRIVEWAY CONSTRUCTION.
10. EXISTING 12" WATER LINE, FIRE HYDRANTS AND VALVES TO REMAIN.
11. EXISTING CURB INLET TO BE MODIFIED TO A GRATE INLET. REFERENCE SHEET CD002 FOR DETAILS.
12. AREA TO BE FULLY CLEARED AND GRUBBED FOR PROPOSED CONSTRUCTION.
13. CONTRACTOR SHALL CLEAR ALL UNDERBRUSH, DEAD TREES AND FREE LIMB DEAD 3" IN DIAMETER. ALL TREES GREATER THAN 3" IN DIAMETER TO REMAIN.
14. EXISTING SANITARY SEWER FORCE MAIN TO REMAIN.
15. EXISTING DRIVEWAY TO BE REMOVED.
16. REFERENCE SHEETS CD01-CD03 FOR ADDITIONAL DEMOLITION WORK IN ROW.

NOTES TO SHEET:

1. REFER BACK SHEETS CD01-CD02 FOR ALL WORK IN PUBLIC ROW.
2. REFERENCE MEP PLANS FOR ALL ELECTRICAL, GAS, TELEPHONE, AND OTHER DEMOLITION.
3. PRIOR TO TREE DEMOLITION, CONTRACTOR SHALL MEET SITE WITH OWNER, ARCHITECT AND ENGINEER, AND FLAG SPECIMEN TREES TO REMAIN.

ALTERNATE #3 KEY NOTES:

1. EXISTING CURB AND SIDEWALK TO BE REMOVED FOR DRIVEWAY CONSTRUCTION.
2. IF ALTERNATE #3 IS ACCEPTED, THIS AREA TO BE FULLY CLEARED AND GRUBBED.

BENCHMARK:

BM#: A DISK, IRT IN EAST END OF SOUTH HEADWALL APPROXIMATELY 0.40 MILE WEST OF MILEPOST No. 22 AND APPROXIMATELY 17 FEET SOUTH OF CENTERLINE OF FM 1093 (FM 529 ID 1/389)
ELEV = 186.82 (NAVD 29, 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "E" - COTTON SPINDLE WITH BRASS SHINER STAMPED "WEST BELT 8 ELEVATION" IN POWER POLE LOCATED IN THE NORTHWESTERLY RIGHT OF FRONTAGE FALCON LANDING BOULEVARD 437' NORTH OF THE SOUTHWEST CORNER OF THE DISTRICT TRACT
ELEV. = 184.67

TBM "F" - BOX CUT AT END OF MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER
ELEVATION = 116.26'

TBM "G" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. ROBERT A. WRIGHT EXTENDED ELEMENTARY SCHOOL
ELEVATION = 125.47'

TBM "H" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHWESTERLY DRIVEWAY IN THE KATY I.S.D. ROBERT A. WRIGHT EXTENDED ELEMENTARY SCHOOL
ELEVATION = 125.47'

FLOODPLAIN NOTE:

ACCORDING TO FEMA MAP NUMBER 48201C0136 PANEL NO. 0925G (REV. MAP REVISED DATE APRIL 2, 2014) THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" (UNSHADED) AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" WITH FLOOD ELEVATIONS DETERMINED.

THE DETERMINATION BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO BE USED FOR INSURANCE PURPOSES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CAPABILITIES.

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KATY, TEXAS 77493
O: 832-437-7377

APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/2/15

N PLAN TRUE

Revisions / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
JOEL SEYBERT
92899
LICENSED
PROFESSIONAL ENGINEER
12-16-15

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DEMOLITION PLAN
(SHEET 3 OF 3)

Job. No.	Sheet No.
1701-01-01	CD003
Drawn By: JN / JLT	
Date: 06/24/2015	

Sheet of

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KEY NOTES:

1. PROPOSED RIGHT TURN LANE. SEE SHEETS C301-C303.
2. PROPOSED EXISTING MEDIAN AND LEFT TURN LANE CLOSURE. SEE SHEETS C301-C303.
3. PROPOSED LEFT TURN LANE. SEE SHEETS C301-C303.
4. PROPOSED LEFT TURN LAND MODIFICATION. SEE SHEETS C301-C303.
5. EXISTING CONCRETE PARKING AREA TO BE RESTORED.
6. PROPOSED FLAG POLE.
7. PROPOSED RELOCATED DUMPSTER WITH 3 BOLLARDS.
8. PROPOSED 6" CONCRETE SLAB FOR MECHANICAL EQUIPMENT.

PARKING SUMMARY:

EXISTING BUS PARKING SPACES	131
EXISTING CAR PARKING SPACES	148
PROPOSED BUS PARKING SPACES	240
PROPOSED CAR PARKING SPACES	354
PROPOSED ADA PARKING SPACES	11
ALT #5 PROPOSED CAR PARKING SPACES	39

NOTES TO SHEET:

1. REFER TO SITE ARCHITECTURAL PLANS FOR EXACT LAYOUT AND DETAILS ON FUNCTION.

NOTE: ALL WORK IN THE FALCON LANDING ROW IS DESIGNATED AS ALTERNATE #1

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED FULL DEPTH SAWCUT
	PROPOSED FIRE ACCESS LANE
	EXISTING FIRE ACCESS LANE
	EXISTING FIRE ACCESS LANE TO BE REMOVED
	PROPOSED CONCRETE DRIVEWAY PARKING LOTS
	PROPOSED CONCRETE SIDEWALK

0 100 200
50 150
SCALE: 1"=100'

BENCHMARK:

BM#: A BRASS SET IN EAST ENDSIDE NOSE TO HEADWALL APPROXIMATELY 0.40' MORE WEST OF MIDPOINT No. 77 AND APPROXIMATELY 17.0 FEET SOUTH OF CENTERLINE OF [illegible] (PACED ID: Q748)
ELEV =[illegible] 57 (NGVD 29, 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "C" - COTTON SPINDLE WITH BRASS DISKER STAMPED "WEST BELT 3 AIR LYING" IN POWER POLE LOCATED IN THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD AND NORTH OF THE NORTHWEST CORNER OF THE SUBJECT TRACT
ELEV.=[illegible]

TBM "B" - BOX CUT AT END OF MEDIAN LOCATION ON THE NORTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST WESTERNMOST DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 116.20'

TBM "A" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST NORTHEASTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER
ELEVATION = [illegible]

TBM "B" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHWEST OF THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. ROBERTA WRIGHT ELEMENTARY SCHOOL
ELEVATION = [illegible]

FLOODPLAIN NOTE:

ACCORDING TO FLOOD MAP NUMBER 48201C0135L EFFECTIVE DATE APRIL 2, 2014 THIS SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" (UNSHADED) AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" BASE FLOOD ELEVATIONS DETERMINED.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THE INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO DEPICT SPECIFIC FLOODING CONDITIONS.

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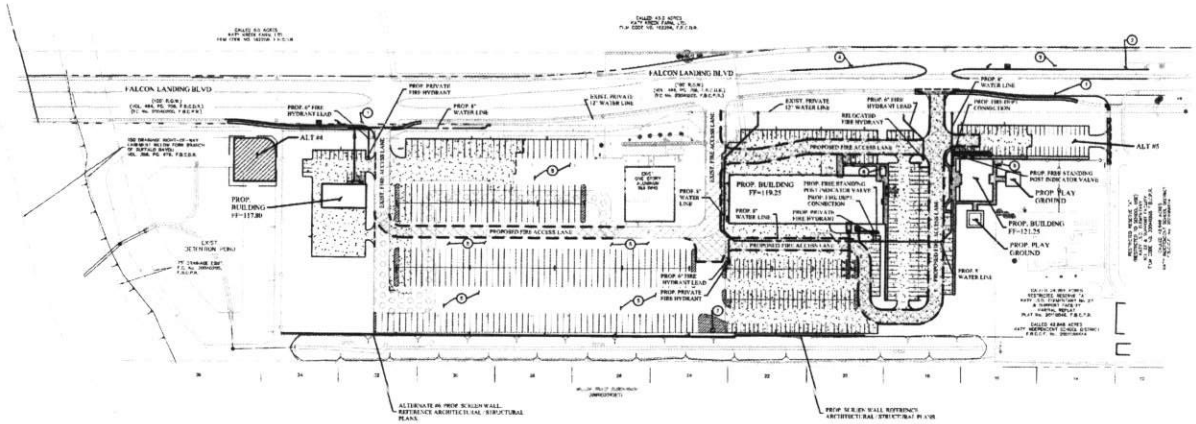

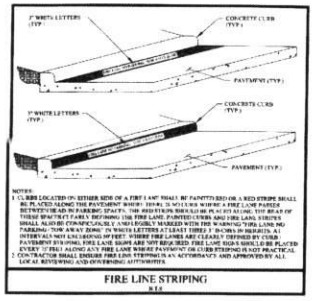

NOTES:
1. CURBS LOCATED ON EITHER SIDE OF A FIRE LANE SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONG THE PAVEMENT SHORT DRIVE. SUCH CURBS WHERE A FIRE LANE PASSES BETWEEN HEAD IN PARKING SPACES, THE RED STRIPE SHOULD BE PLACED ALONG THE REAR OF THESE SPACES TO DEFINE THE FIRE LANE. PAINTED CURBS AND FIRE LANE STRIPES SHALL ALSO BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING "FIRE LANE NO PARKING" FOR AWAY ZONE IN WHITE LETTERS AT LEAST THREE 3" INCHES IN HEIGHTS AT INTERVALS NOT EXCEEDING 50 FEET. WHERE FIRE LANES ARE CLEARLY DEFINED BY CURB PAVEMENT STRIPING, FIRE LANE SIGNS ARE NOT REQUIRED. FIRE LANE SIGNS SHALL BE PLACED EVERY 50 FEET ALONG ANY FIRE LANE WHERE PAVEMENT OR CURB STRIPING IS NOT PRACTICAL.
2. CONTRACTOR SHALL ENSURE FIRE LINE STRIPING IS AS ACCURATE AND APPROVED BY ALL LOCAL REVIEWING AND OVERSEEING AUTHORITIES.

FIRE LINE STRIPING
N.T.S.

T.B.P.E. FIRM #15114

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APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/21/15

N PLAN TRUE

Date:
Revisions:

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
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LICENSED
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12-16-15

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OVERALL SITE & FIRE ACCESS PLAN

Job No. 1701-03-01
Sheet No. C100
Drawn By: JH / DLY
Date: 09/29/2015
Sheet of

Plot Date: Dec 16, 2015 at 4:25 pm by Joel Seybert
Location: X:\Projects\Huckabee\Katy ISD\001 Katy ISD South Transportation Site\CAD\C100 OVERALL SITE.DWG

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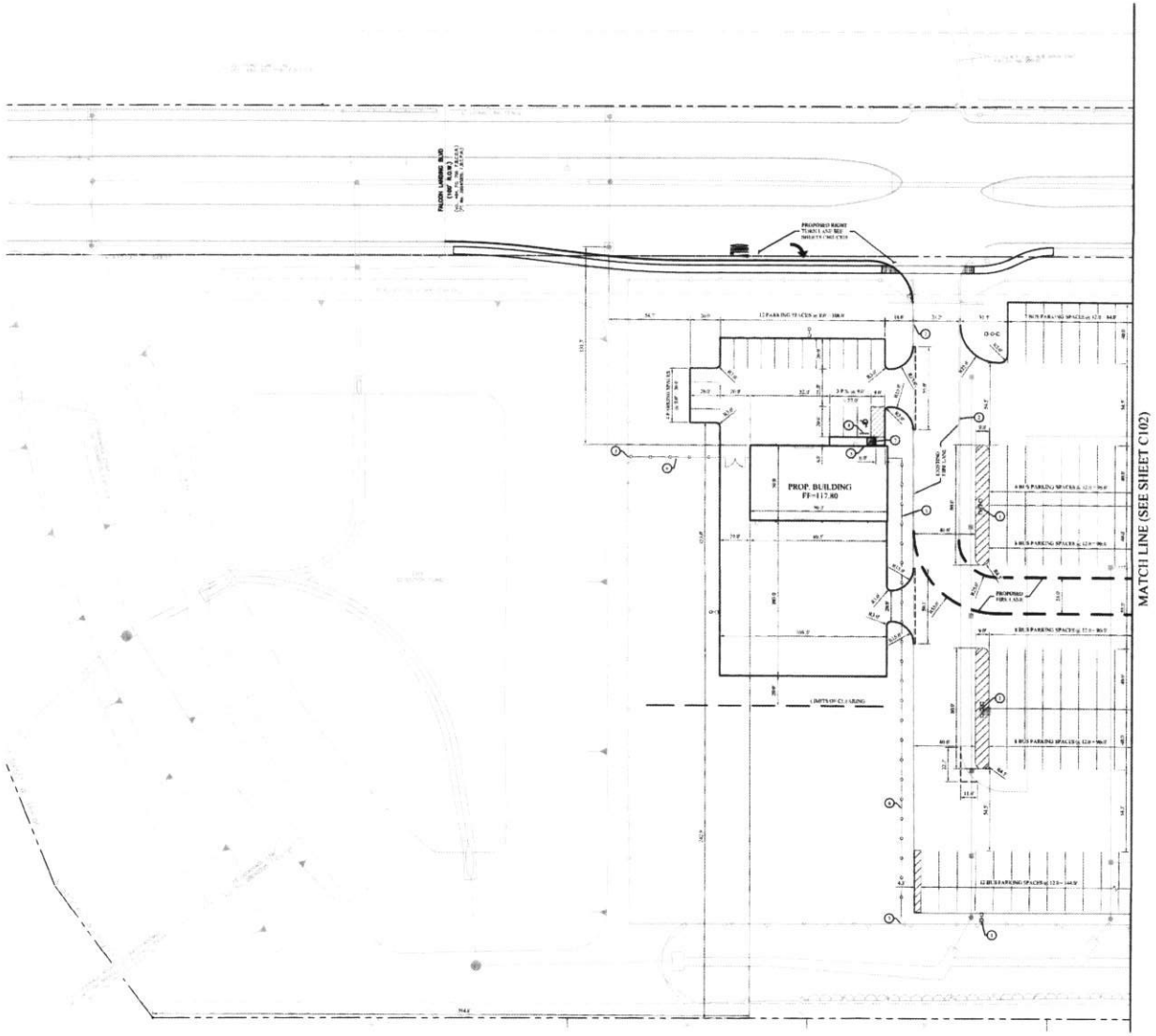

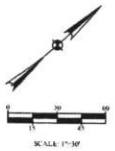

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED FULL DEPTH SAWCUT
	PROPOSED FIRE LANE STRIPING

NOTES TO SHEET:

1. ALL DIMENSIONS ARE SET TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR FENCING DETAILS AND EXACT LOCATION.
3. ALL PARKING LOT STRIPING TO BE YELLOW UNLESS OTHERWISE NOTED.
4. EACH BUS PARKING SPACE SHALL INCLUDE A PAINTED NUMBER MARKING. SEE DETAIL SHEET C700. NUMBERING LAYOUT TO BE PROVIDED BY OWNER.

KEY NOTES:

1. EXISTING LIGHT POLE TO REMAIN.
2. CONSTRUCTOR SHALL REPAIR ANY EXISTING FIRE LANE.
3. CONNECT PROPOSED FENCE TO EXISTING FENCE.
4. PROPOSED WHEEL STOP.
5. PROPOSED ADA SIGN MOUNTED ON SIDE OF BUILDING.
6. PROPOSED FENCE. SEE ARCHITECTURAL PLANS.
7. PROPOSED ADA RAMP.

BENCHMARK

BM# - A 2000, SET 76 EAST END OF SOB TO MEADOWACE, APPROXIMATELY 6.0 FEET EAST OF MILEPOST No. 23.8/54 APPROXIMATELY 17 FEET SOUTH OF CENTERLINE OF F.M. 1093 (FRCTO 25 (Q'ty)
ELEV. = 488.97' (NAVD 28 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "F" - COTTON SPINDLE WITH BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD AND 1.0' NORTH OF THE SOUTHEAST CORNER OF THE SUBJECT TRACT
ELEV. = 156.42'

TBM "F" - BOX CUT AT END OF MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER
ELEVATION = 166.26'

TBM "G" - BOX CUT ON TOP OF "C" INLET AT EDGE/BLEDGE OF 90.0' LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST NORTHEASTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 167.12'

TBM "H" - BOX CUT ON TOP OF "C" INLET AT CURB/FACE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. FORMATA THROUGH AND ADJACENT ELEMENTARY SCHOOL.
ELEVATION = 175.49'

FLOODPLAIN NOTE

ACCORDING TO F.E.M.A. MAP NUMBER 48201C0485L COMMUNITY PANEL NO. 48201C0485L, MAP REVISED DATE: APRIL 2, 2014. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" ZONE FLOOD ELEVATION DETERMINED).

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO BE HONORED PROVIDED FOR REFERENCE ONLY AND IS NOT INTENDED TO ESTABLISH SPECIFIC FLOODING CONDITIONS.

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T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
2798 AVENUE B, SUITE B
KATY, TEXAS 77493
O: 832-437-7577

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

Revision / Date

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
82999
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

DIMENSIONAL LAYOUT
(SHEET 1 OF 2)

Job No. 150-01-01
Drawn By: JA / GLY
Date: 06/15/2015
Sheet No. C101
Sheet of

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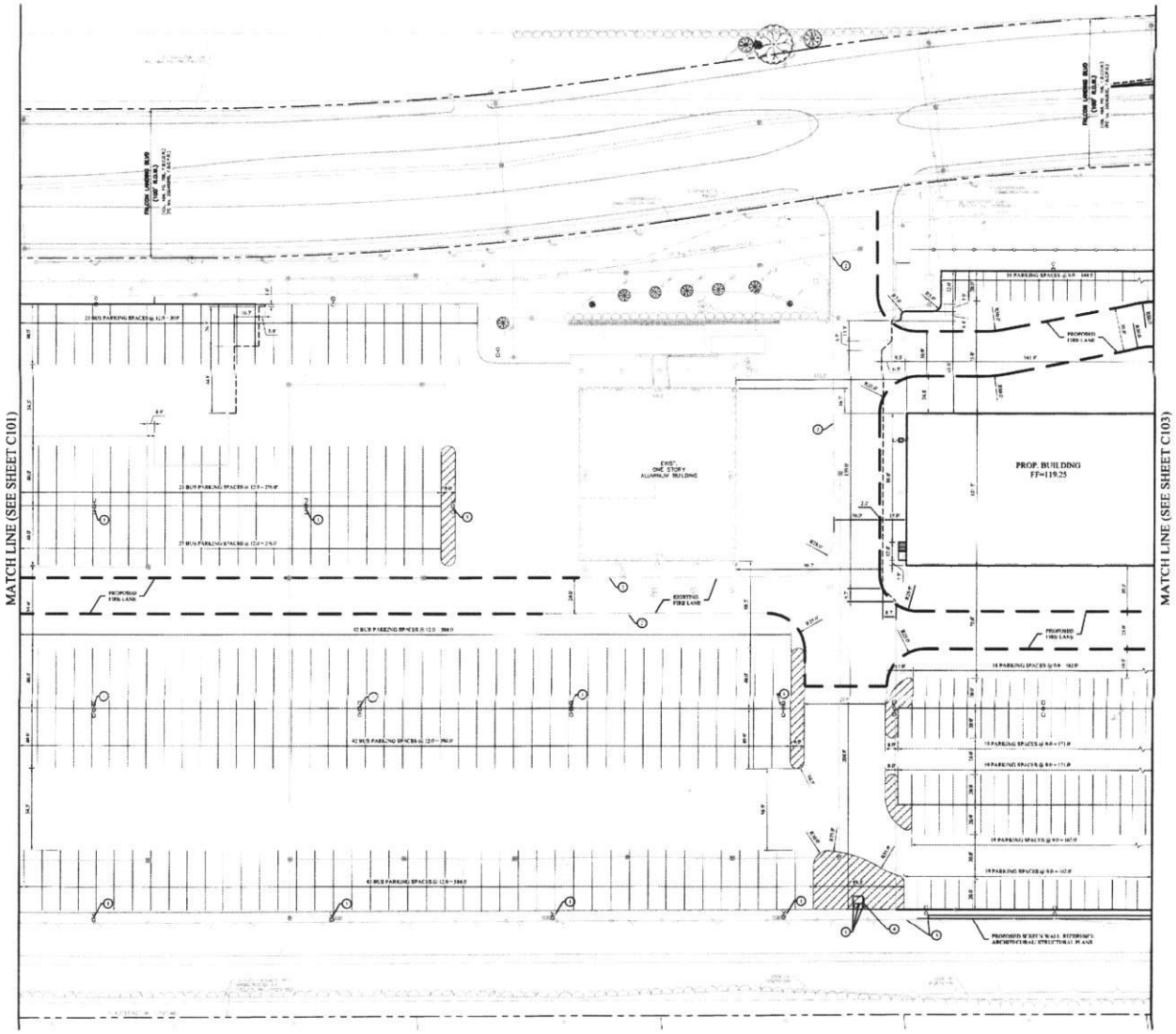

SCALE: 1"=30'

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED FULL DEPTH BANCT
	PROPOSED FIRE LANE STRIPING

NOTES TO SHEET

1. ALL DIMENSIONS ARE SET TO FACE OF CURB UNLESS OTHERWISE NOTED
2. REFERENCE ARCHITECTURAL PLANS FOR EXACT BREAKS AND EXACT LOCATION.
3. ALL PARKING LOT STRIPING TO BE YELLOW, UNLESS OTHERWISE NOTED.
4. EACH BUS PARKING SPACE SHALL RECEIVE A PAINTED NUMBER MARKING. SEE DETAIL SHEET C506. NUMBERING LAYOUT TO BE PROVIDED BY OWNER.

KEY NOTES

1. CONSTRUCT CURBS PER DETAIL
2. CONTRACTOR SHALL REPAIR ANY EXISTING FIRE LANE
3. CONTRACTOR SHALL REMOVE EXISTING MASONRY SCREEN WALL AS REQUIRED TO INSTALL PROPOSED SCREEN WALL. AFTER SCREEN WALL IS COMPLETE, REPAIR ALL MASONRY GRAPHICS & FENCE UP TO SCREEN WALL
4. EXISTING DUMPSTER TO BE LOCATED IN THIS AREA
5. PROPOSED ROLL OFFS (3) FOR DUMPSTER

BENCHMARK

BM#1 - A DISK SET IN EAST END OF SOUTH HEADWALL APPROXIMATELY 6.0 MILE NORTH OF SITE (POST No. 22 AND APPROXIMATELY 1.7 FEET SOUTH OF CENTERLINE OF F.M. 1093 (PROJECTED GRAD)
ELEV. = 108.52 (NGVD 29) (1947 ADJ.)

TEMPORARY BENCHMARKS:

TBM "B" - COTTON SPINDLE WITH BRASS SPIKE STAMPED "WEST BELL DRIVE INLET" IN INLET NO. 1 LOCATED IN THE NORTHWESTERLY RADIUS OF INTERSECTION OF PROPOSED FALCON LANDING BOULEVARD AND 1537 NORTH OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT
ELEV. = 110.62

TBM "C" - BOX CUT AT END OF MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER
ELEVATION = 116.38'

TBM "D" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER
ELEVATION = 117.12

TBM "E" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD ROBERTA WRIGHT ELEMENTARY SCHOOL
ELEVATION = 122.69

FLOODPLAIN NOTE:

ACCORDING TO FEMA MAP #: 48201C0415G DATE: APRIL 2, 2014 THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED AREA OF FLOODPLAIN TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" BASE FLOOD ELEVATIONS DETERMINED.

THIS STATEMENT IS BASED SOLELY ON THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO DEPICT SPECIFIC FLOODING CONDITIONS.

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T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
1796 AVENUE D, SUITE B
KATY, TEXAS 77493
O: 832-455-7777

APPROVED: _____ DIRECTOR OF PROJECT COORDINATION

DATE: 12/21/15

PLAN TRUE

Revision / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
12-16-15

Huckabee

DIMENSIONAL LAYOUT
(SHEET 2 OF 3)

Job No. 1701-0101
Drawn By: JM / DLY
Date: 09/24/2015
Sheet No. C102
Sheet of

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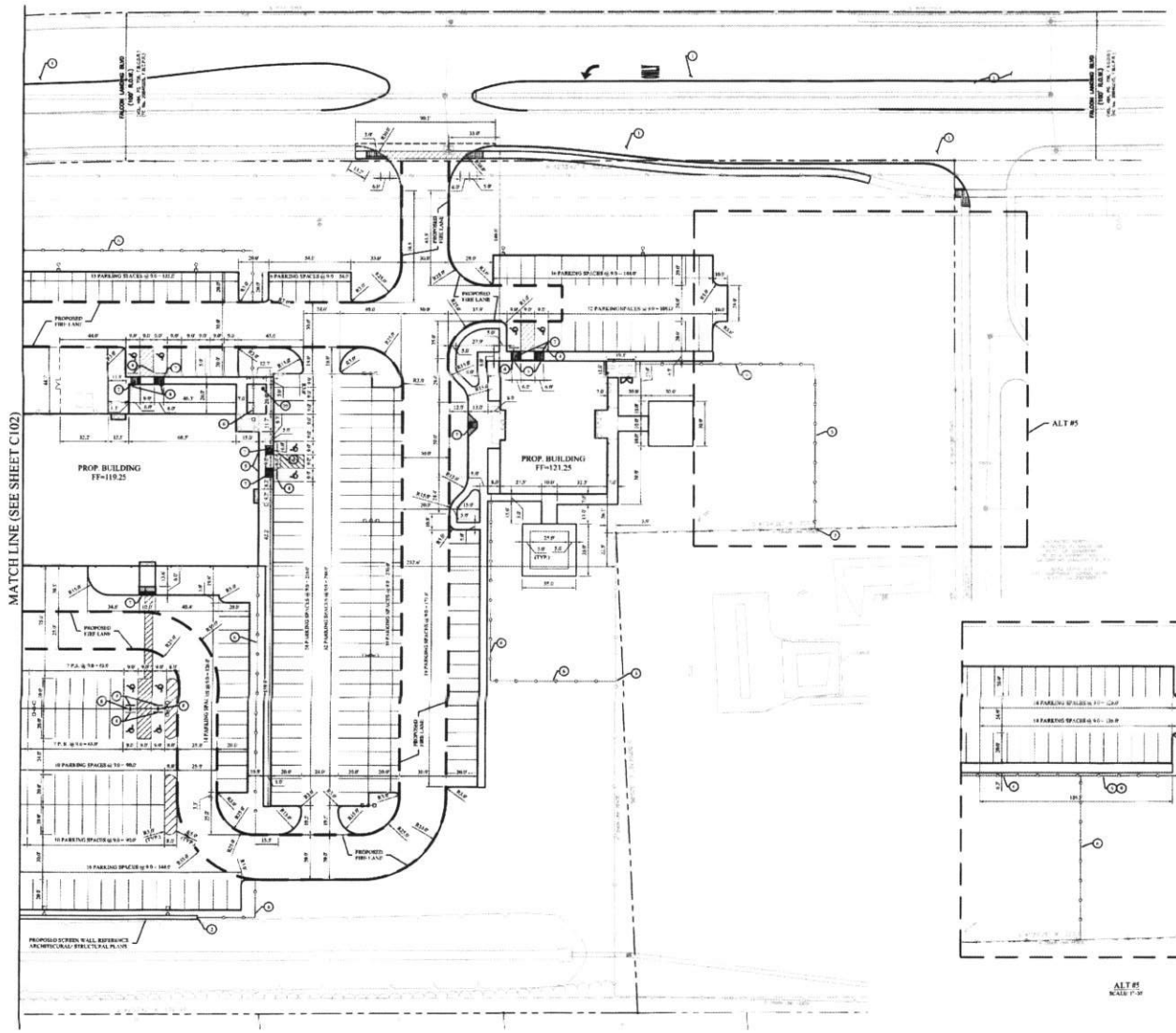

BENCHMARK:

BM1 - A THRC SET IN EAST END OF SOUTH 10-ADWALL, APPROXIMATELY 0.65 MILE WEST OF KEITH (FM No. 79 AND APPROXIMATELY 17 FEET RIGHT OF CENTERLINE OF F.M. 1093 (PROJECT ID: 2766).
ELEV. = 150.32' (NGVD 29, 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "D" - CITITEX BRASS B BOTH BRASS SHINER STAMPED "WEST WEST SURVEYING" IN BORDER POLE LOCATED ON THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD +/-937' NORTH OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT.
ELEV. = 117.83'

TBM "F" - BOX CUT AT END OF MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER
ELEVATION = 116.56

TBM "G" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTH EAST OF THE MOST NORTHEASTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER
ELEVATION = 117.17

TBM "H" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTH EAST OF THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY ISD ROBERTA WRIGHT 8TH GRADE TO PRIMARY SCHOOL.
ELEVATION = 120.07

LEGEND

SYMBOL	DESCRIPTION
— — — —	PROPOSED PLAT BOUNDARY
▬ ▬	PROPOSED FIRE LANE, FIGHTING

NOTES TO SHEET:

1. ALL DIMENSIONS ARE SET TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. REFERENCE ARCHITECTURAL PLANS FOR PERMITTING DETAILS AND EXACT LOCATION.
3. ALL PARKING LOT STRIPING TO BE YELLOW UNLESS OTHERWISE NOTED.
4. EACH BUS PARKING SPACE SHALL RECEIVE A PAINTED NUMBER MARKING. SEE DETAIL SHEET C706. NUMBERING LAYOUT TO BE PROVIDED BY DISTRICT.

KEY NOTES:

1. SEE DEMOLITION PLAN FOR DEMOLITION REQUIRED. SAVE EXISTING LANDSCAPE SCREEN.
2. INSTALL NEW FENCE PER SCREEN WALL.
3. CONNECT PROPOSED FENCE TO EXISTING FENCE.
4. PROPOSED WHEEL STOP.
5. PROPOSED ADA SIGN MOUNTED ON SIDE OF BUILDING.
6. PROPOSED FENCE. SEE ARCHITECTURAL PLANS.
7. PROPOSED ADA RAMP.
8. PROPOSED POLE MOUNTED ADA PARKING SIGN.
9. FENCE ONLY ON BK. (INSTALLED IF ALT #5 IS ACCEPTED)
10. PROPOSED FLAG POLE. REFERENCE ARCHITECTURAL PLANS.

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FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NUMBER 48-201 [illegible] (COMMUNITY-PANEL NO. 480288 0125A) MAP REVISED DATE APRIL 2, 2014, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" (UNSHADED). AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" HAS A DESIGNATED FLOODWAY DETERMINED.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THE INTENTION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

T.B.P.E. FIRM #15114

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PH. 832-403-9393

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

Revision / Date

Project: SOUTH TRANSPORTATION CENTER EXPANSION FOR KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
92995
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

DIMENSIONAL LAYOUT (SHEET 3 OF 3)

Job. No. 1150.07.01
Drawn By: JH / CET
Date: 09/24/2015
Sheet No. C103
Sheet of

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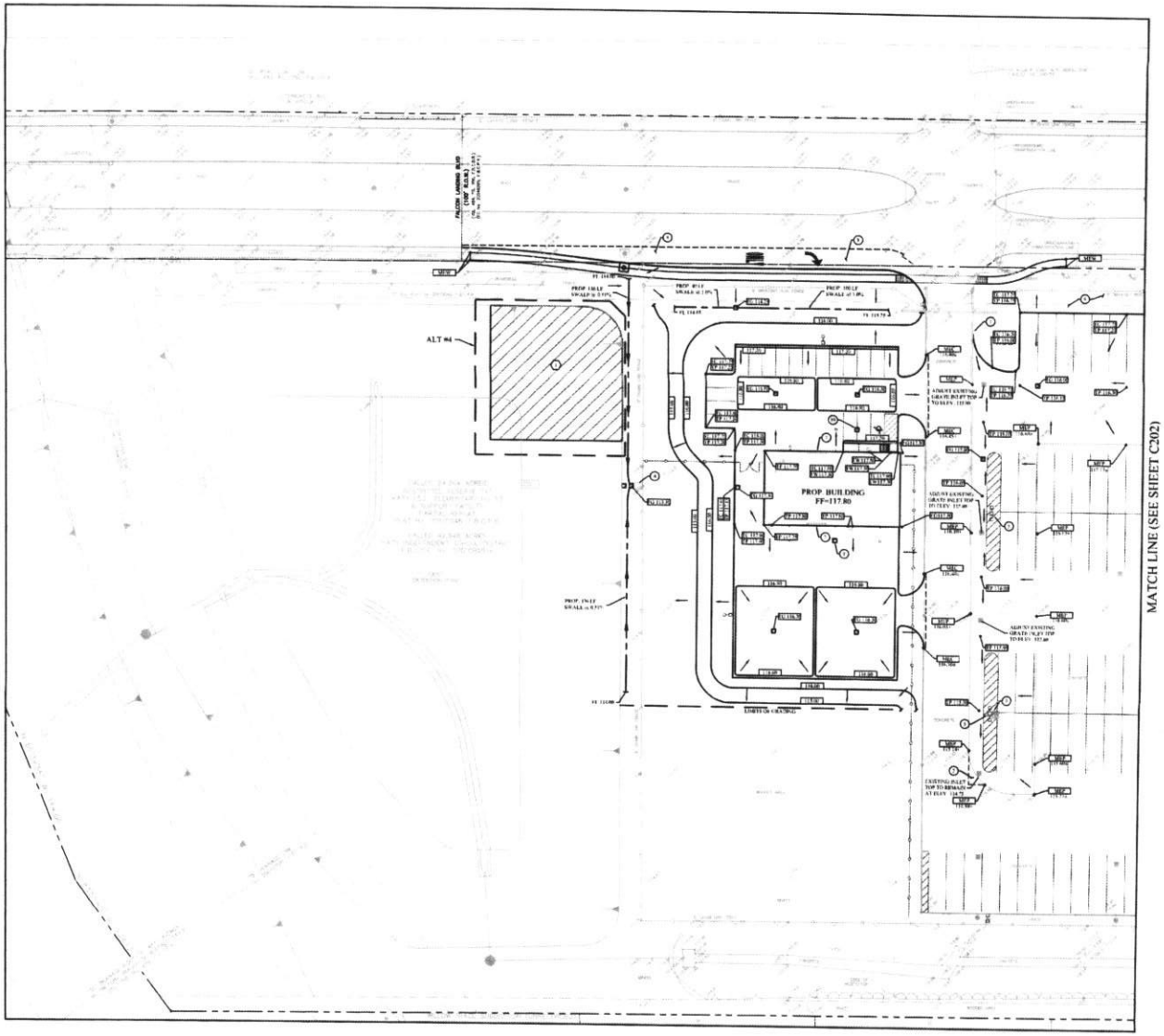
FALCON LANDING BLVD
(100' R.O.W.)
ALT #4
PROP. BUILD
SWALE @ 0.5%
PROP. BUILD
SWALE @ 1.0%
PROP. INLET
SWALE @ 1.0%
PROP. INLET
SWALE @ 0.5%
PROP. BUILDING
FF=117.80
ADJUST EXISTING GRADE INLET TOP TO ELEV. 117.00
ADJUST EXISTING GRATE INLET TOP TO ELEV. 117.00
ADJUST EXISTING GRATE INLET TOP TO ELEV. 117.00
EXISTING INLET TOP TO REMAIN AT ELEV. 116.75
PROP. INLET
SWALE @ 0.5%
FF 116.00
FF 116.00
FF 116.00

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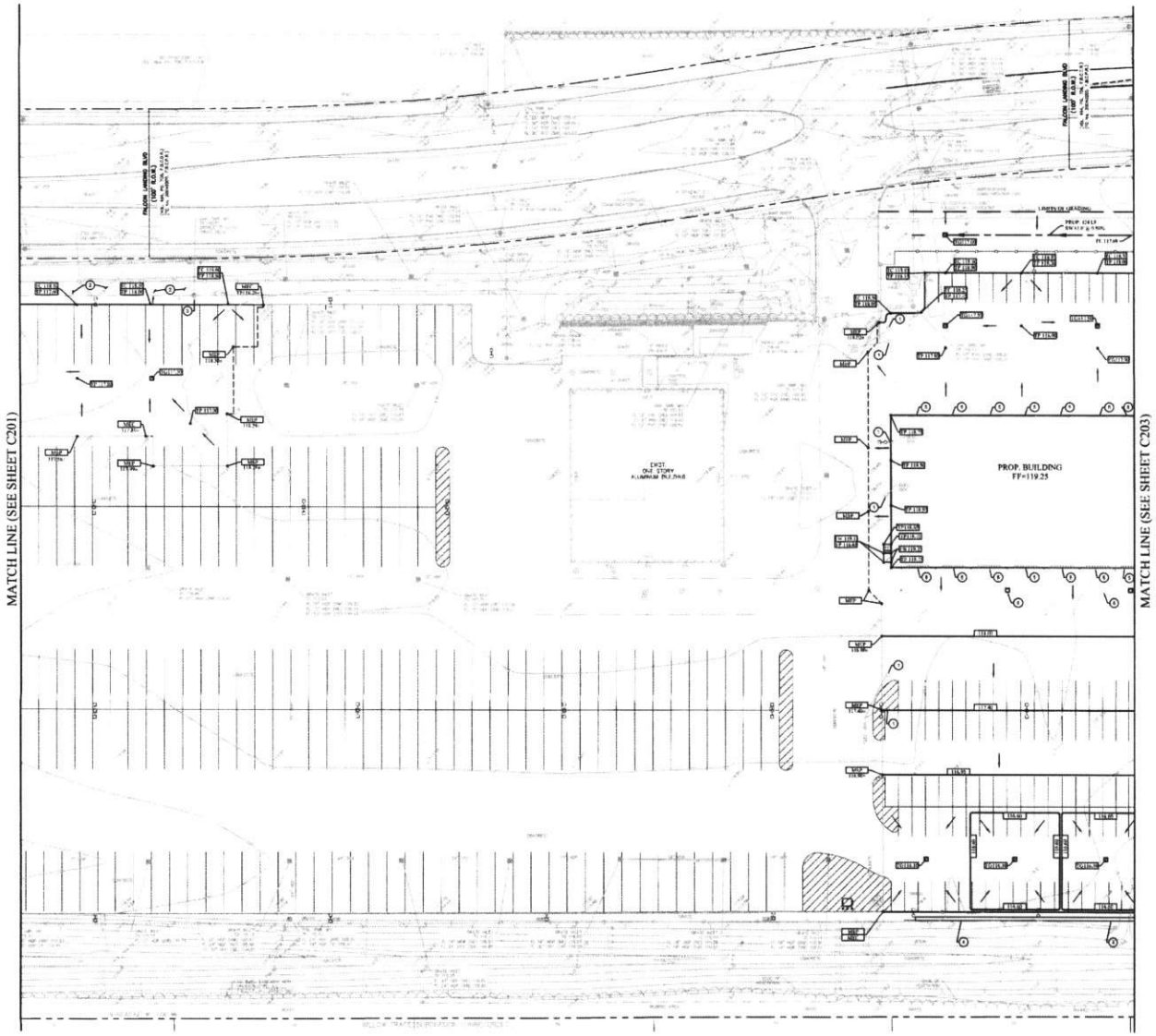

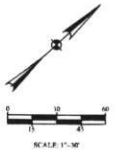

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED FLOW IN BASIN IN PAVEMENT / GRASS
	PROPOSED FLOW DIRECTION
119.00	PROPOSED CONTOUR ELEVATION
F119.00	PROPOSED FLOW LINE ELEVATION
C119.00	PROPOSED TOP OF CURB ELEVATION
P119.00	PROPOSED TOP OF PAVEMENT ELEVATION
W119.00	PROPOSED TOP OF WALL ELEVATION
G119.00	PROPOSED TOP OF GRATE ELEVATION
119.00	PROPOSED FINISHED GRADE ELEVATION
MC 119.00	MATCH EXISTING CURB ELEVATION
MP 119.00	MATCH EXISTING PAVEMENT ELEVATION

KEY NOTES:

1. EXISTING ELECTRICAL JUNCTION BOXES TO REMAIN. ADJUST EXISTING BOXES TO MATCH PROPOSED PAVEMENT GRADES. REPLACE EXISTING BOXES WITH TRAFFIC DUTY BOXES. SEE MEP PLANS
2. CONTRACTOR SHALL ADJUST ANY GRADE FROM TOP OF CURB TO NATURAL GROUND AT A 4:1 MAXIMUM SLOPE.
3. ADJUST EXISTING SANITARY SEWER MANHOLE TOP TO BE 3" ABOVE FINISHED GRADE.
4. BASE OF WALL TO BE SET AT ELEVATION: 117.25± GRADE AREA BETWEEN WALL AND CURB BACK TOWARD PARKING LOT.
5. TOP OF PAVEMENT IS FLUSH AT ON-GRADE (SHOWN SEALED SET AT 119.20) & NEW LOWER THAN FINISHED FLOOR. REFERENCE ARCHITECTURAL PLANS FOR DETAILS AT DOOR.
6. TOP OF GRATE TO MATCH PROPOSED PAVEMENT AT 119.92±, @ 119.83±

BENCHMARK

BMS - A DISK SET IN EAST END OF SOUTH SIDE OF LOW A.C. APPROXIMATELY 0.45 MILE WEST OF MILEPOST No. 25 AND APPROXIMATELY 7 FEET SOUTH OF CENTERLINE OF F.M. 1093 (BEC 80-1093)
ELEV. - 195.32 (NGVD 29, 1967 ADJ.)

TEMPORARY BENCHMARKS:

TBM "B" - COTTON SPINDLE WITH BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD AND EAST NORTH OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT
ELEV. - 116.67

TBM "F" - BOX CUT AT END OF MEDIAN; LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 116.26

TBM "G" - BOX CUT ON TOP OF "X" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "X" INLET NORTHEAST OF THE MOST NORTHEASTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 115.12

TBM "H" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. ROBERTA WAGGNER BYE VARSITY ELEMENTARY SCHOOL.
ELEVATION = 115.49

FLOODPLAIN NOTE

ACCORDING TO F.I.R.M. MAP NUMBER 48201C0140 (COMMUNITY-PANEL NO. 482280 0140 G, MAP REVISED DATE: APRIL 2, 2014) THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" BASE FLOOD ELEVATIONS DETERMINED.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED F.I.R.M. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO REPORT SPECIFIC FLOODING CONDITIONS.

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T.B.P.E. FIRM #15114

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1799 AVENUE D, SUITE B
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O: 832-437-7577

APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/3/15

N PLAN TRUE

Revision / Date

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

W. JOEL SEYBERT 92596 LICENSED PROFESSIONAL ENGINEER
12-16-15

Huckabee
ARCHITECTS • ENGINEERS • PLANNERS • INTERIORS • GRAPHICS
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832-437-7777

GRADING PLAN
(SHEET 2 OF 3)

Job No. 1501-01-01	Sheet No. C202
Drawn By: JN / GLY	
Date: 10/23/2015	
Sheet	of

File Location: Dec 11, 2015 @ 3:12:12 pm (with Trim)
Location: X:\Projects\Huckabee\15-001 SB Katy ISD South Trans Bldg\CAD\C202 15-001 GR 02.dwg

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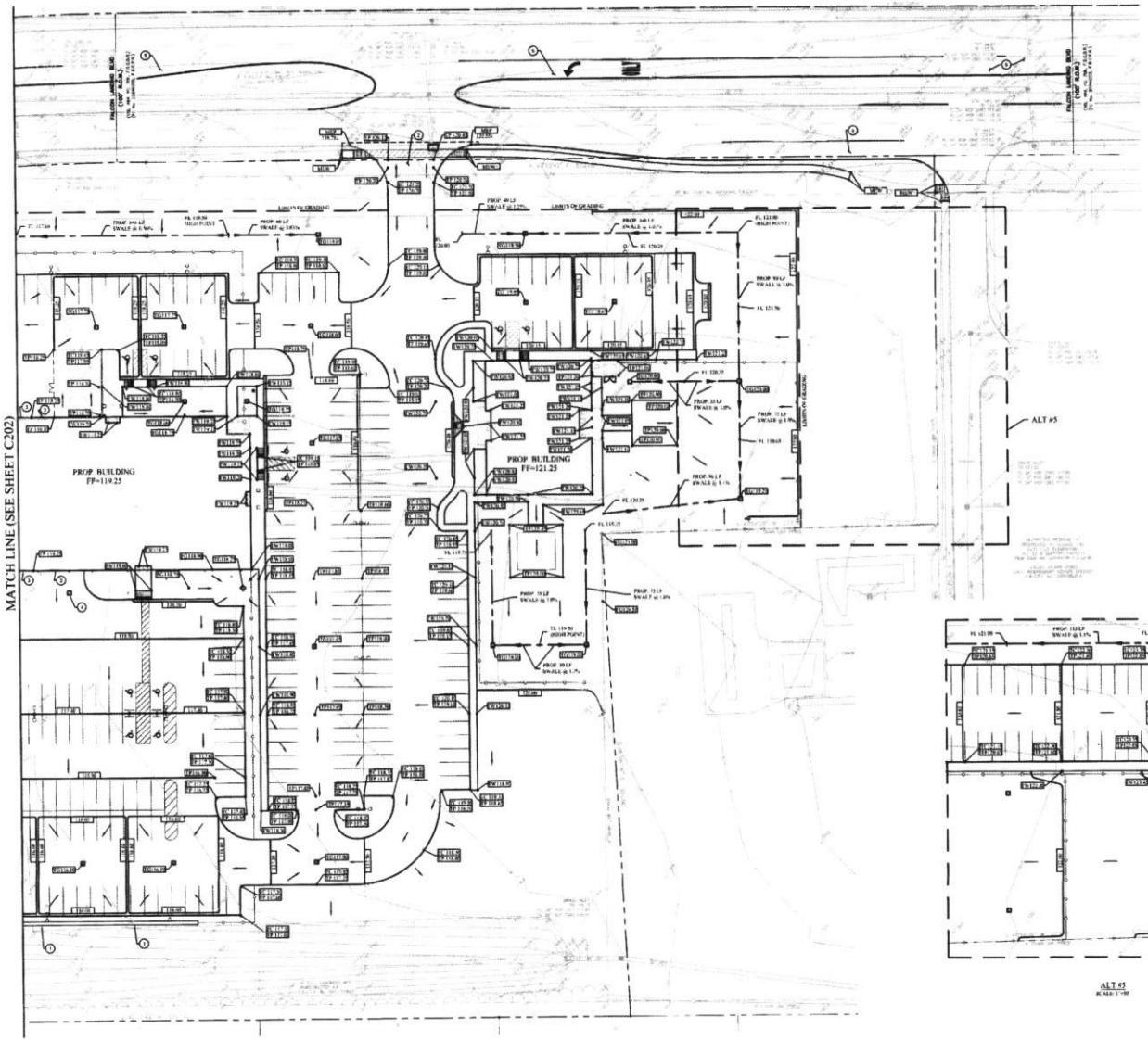

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED CATCH BASIN (IN PAVEMENT / GRASS)
	PROPOSED FLOW DIRECTION
PROP.	PROPOSED CONTOUR ELEVATION
FL=XX	PROPOSED FLOW LINE ELEVATION
TC=XX	PROPOSED TOP OF CURB ELEVATION
PV=XX	PROPOSED TOP OF PAVEMENT ELEVATION
WL=XX	PROPOSED TOP OF WALL ELEVATION
GE=XX	PROPOSED TOP OF GRADE ELEVATION
FG=XX	PROPOSED FINISHED GROUND ELEVATION
MC=XX	MATCH EXISTING CURB ELEVATION
MP=XX	MATCH EXISTING PAVEMENT ELEVATION

KEY NOTES:

1. BASE OF WALL TO BE SET AT ELEVATION 117.25±. GRADE AREA IN FRONT WALL AND CURB BACK TO AVID PARKING LOT.
2. CONTRACTOR SHALL DESIGN CROSS-SLOPE OVER SIDEWALK DOES NOT EXCEED 2%.
3. TOP OF PAVEMENT ELEVATION AT OVERHEAD DOORS SHALL BE SET AT 119.20 ± (SINCE LOWER TRAN FINISHED FLOOR). REFER TO ARCHITECTURAL PLANS FOR DETAILS AT DOOR.
4. PROPOSED TOP OF GRATE ELEVATION TO MATCH PROPOSED PAVEMENT @ 18 ±.
5. REFERENCE SHEETS C400-C410 FOR WORK IN R.O.W.

BENCHMARK:

BM#1 - A DISK SET IN EAST END OF SOUTH HEADWALL, APPROXIMATELY 0.45 MILE WEST OF MILEPOST No. 25 AND APPROXIMATELY 17 FEET SOUTH OF CENTERLINE OF FM 1093.
N:28,263.402 (Y)m/s
ELEV.=103.37 (NAVD 28, 1997 ADJ.)

TEMPORARY BENCHMARKS:

TBM "B" - CUTTON SPIKE SET WITH BRASS SHIM STAMPED "WAS SET IN ROOT OF 36" PINE POLE LOCATED IN THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD ±325' NORTH OF THE SOUTHWEST CORNER OF THE SUBDIV. (HAC)
ELEV.=106.67

TBM "F" - BOX CUT AT END OF MEDIAN LOCATED ON THE SOUTHEASTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 115.26

TBM "G" - BOX CUT ON TOP OF "S" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "S" INLET NORTHEAST OF THE MOST NORTHEASTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 117.17

TBM "H" - BOX CUT ON TOP OF "S" INLET AT UNKNOWN LINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "S" INLET NORTHWEST OF THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. ROBERTA WRIGHT ELEMENTARY SCHOOL.
ELEVATION = 123.47

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NUMBER 48201C0110L, COMMUNITY PANEL NO. 48201C0110L, MAP REVISED DATE: APRIL 2, 2014 THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" BASE FLOOD ELEVATIONS DETERMINED.

THIS ASSESSMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS PROVIDED FOR FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODWAY CONDITIONS.

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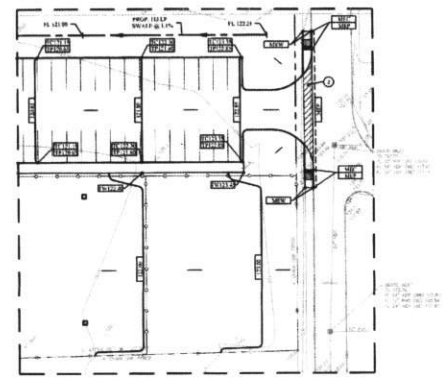

ALT #5
SCALE: 1"=30'

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
1706 AVENUE B, SUITE B
KATY, TEXAS 77493
O: 832-475-7555

APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/8/15

PLAN TRUE

Revision / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
92990
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

GRADING PLAN
(SHEET 3 OF 3)

Job No. 1350-07-01
Drawn By: JS / GLT
Date: 08/04/2015
Sheet No. C203
Sheet of

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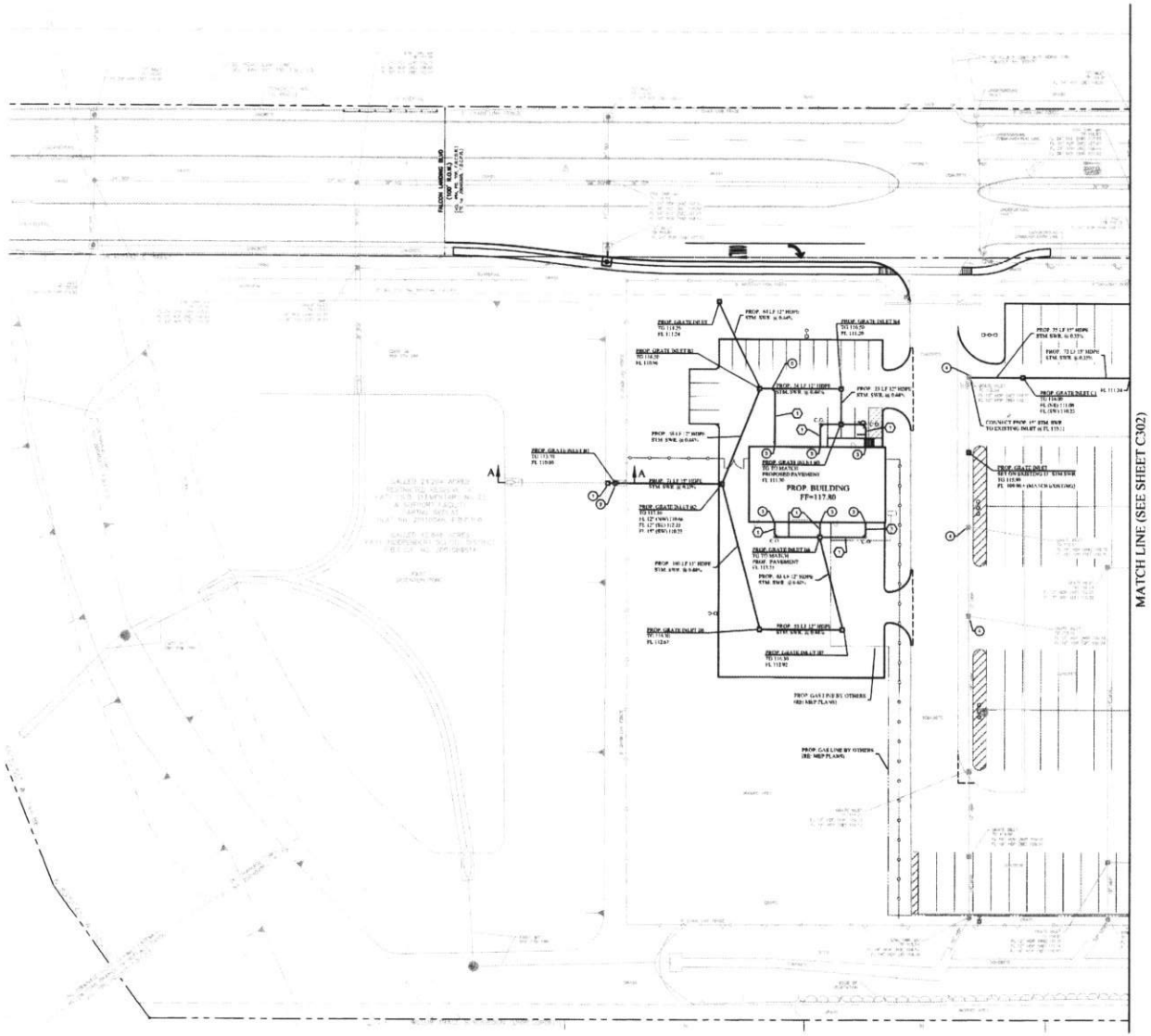

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED CATCH BASIN IN PAVEMENT / GRASS
	PROPOSED MANHOLE WITH GRATE TYP
	PROPOSED STORM SEWER CLEANOUT
	PROPOSED STORM SEWER PIPE
1	6" PVC STM SWR @ .05% MIN

KEY NOTES:

1. CONTRACTOR SHALL INSTALL NEW JUNCTION BOX ON EXISTING 12" CMP PIPE. COORDINATE EXACT LOCATION WITH ENGINEER IN FIELD.
2. CONTRACTOR SHALL REMOVE EXISTING BACKSLOPE INTERCEPTOR STRUCTURE AND INSTALL NEW GRATE INLET TO FIT TOP TO MATCH APPROXIMATELY 1' BELOW EXISTING NATURAL GROUND. VERIFY INLET PLACEMENT AND TOP OF GRATE ELEVATION WITH ENGINEER IN FIELD. CONNECT PROPOSED GRATE INLET TO NEW JUNCTION BOX WITH 12" HDPE PIPE (APPROXIMATELY 10 FEET).
3. CONNECT PROPOSED DOWNSPOUT TO UNDERGROUND STORM SEWER. SEE DOWNSPOUT CONNECTION DETAIL SHEET C702.
4. ADJUST EXISTING GRATE TOP TO FIT ELEVATION 113.00.
5. PROPOSED 12" SAP RWD FITTING.

BENCHMARK:

BMR - A DISK SET IN EAST END OF SOUTH HEADWALL APPROXIMATELY 24 MILE NORTH OF MILEPOST 24, 29 AND APPROXIMATELY 17 FEET SOUTH OF CENTERLINE OF I.H. 10 (FM 529) (E) (2000).
ELEV = 105.57 (NAVD 29, 1947 ADJ.)

TEMPORARY BENCHMARKS:

"BM "B" - COTTON SPINDLE WITH BRASS DISK SET STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE NORTHWESTERLY R.O.W. END OF PROPOSED FALCON LANDING BOULEVARD AND 4±LF NORTH OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT.
ELEV. = 116.62

"BM "B" - BOX CUT AT END OF MEDIAN LOCATED ON THE NORTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 116.38

"BM "C" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE WESTERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST NORTHEASTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 117.57

"BM "D" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHEASTERLY DRIVEWAY INTO THE KATY I.S.D. ROBERTA STREET SYLVESTER ELEMENTARY SCHOOL.
ELEVATION = 117.07

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NUMBER 48157C0150L (COMMUNITY-PANEL NO. 480280 0015), MAP REVISED DATE APRIL 2, 2014 THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" (UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND ZONE "AE" (BASE FLOOD ELEVATIONS DETERMINED).

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS INDETERMINATE FLOOD INSURANCE RATES ONLY, AND IS NOT INTENDED TO DEFINITIVE SPECIFIC PLANNING CONDITIONS.

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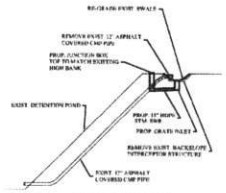

SECTION "AA"

T.B.P.E. FIRM #15114

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APPROVED: _____ DISTRICT REPRESENTATIVE

DATE: 12/21/15

N PLAN TRUE

Revision / Date

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

W. JOEL SEYBERT
STATE OF TEXAS
59894
LICENSED PROFESSIONAL ENGINEER
12-16-15

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STORM SEWER PLAN
(SHEET 1 OF 3)

Job. No.	Sheet No.
1755-01-01	C301
Drawn By: JB / QLY	
Date: 09/24/2015	
Sheet of	

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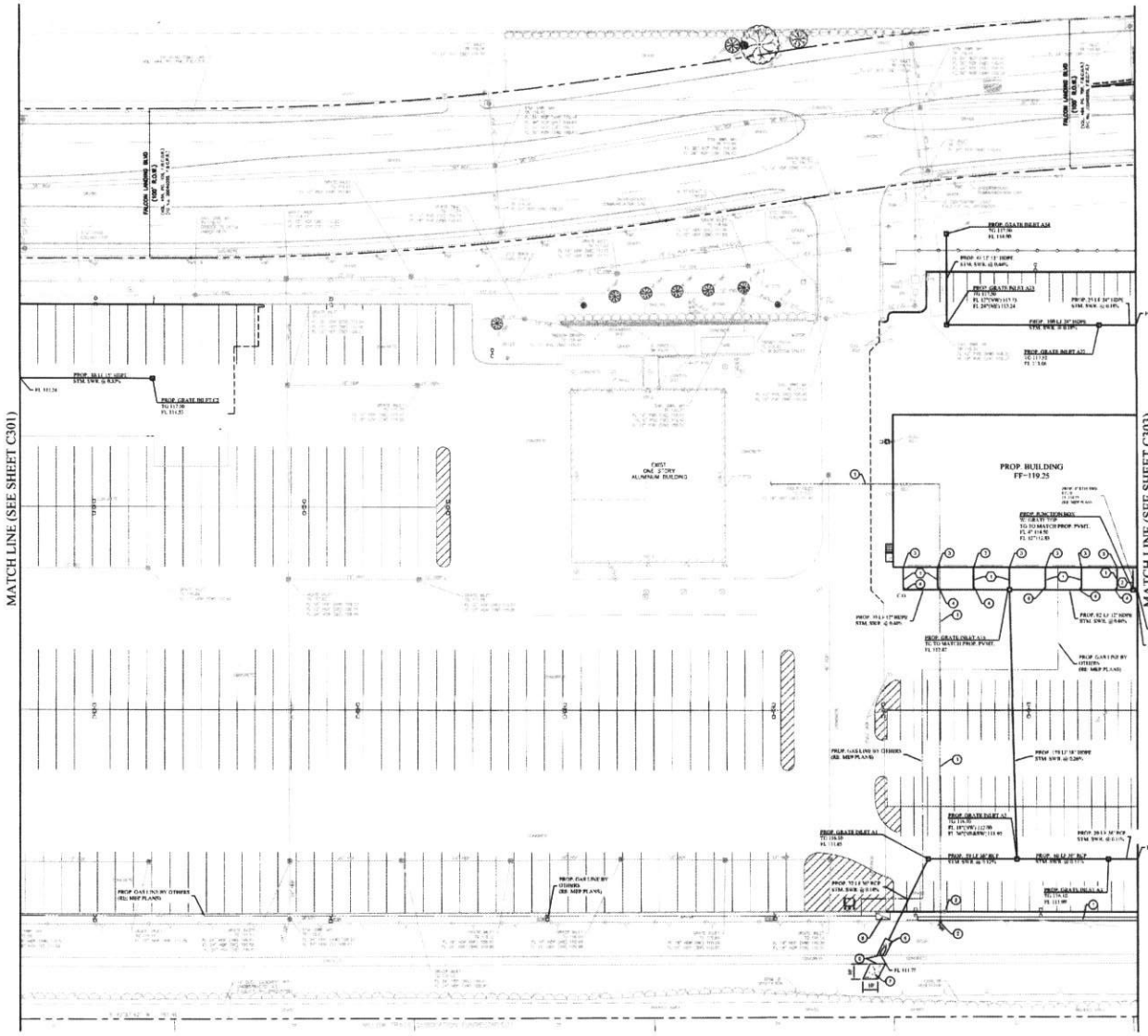

SCALE: 1"=30'

BENCHMARK

BMR-A (BSL-RF) IN EAST END OF SOUTH MEADOW ALL, APPROXIMATELY 640 MILE WEST OF MS FRONT No. 77 AVE, APPROXIMATELY 1 FEET SOUTH OF CENTERLINE OF FM 1093 (PRCSD ID: Q346)
ELEV = 105.37 (NGVD 29, 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "S" - COTTON SPINDLE WITH BRASS WASHER STAMPED "SWBT MILT SURVEYING" IN POWER POLE LOCATED IN THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD AND 45.0' NORTH OF THE SOUTHWEST CORNER OF THE HURBLT TRACT
ELEV. = 114.67

TBM "N" - BOX CUT AT END OF MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE SHORT SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER.
ELEVATION = 116.30'

TBM "O" - BOX CUT ON TOP OF "X" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE SHORT SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER.
ELEVATION = 117.17'

TBM "W" - BOX CUT ON TOP OF "L" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE SHORT SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD BI-BESTA WRIGHT ELEMENTARY SCHOOL.
ELEVATION = 121.47

FLOODPLAIN NOTE:

ACCORDING TO FIRM MAP NUMBER 48201C0130L (COMMUNITY-PANEL NO. 480285 0130 L) MAP REVISED DATE: SEPT. 2, 2014 THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" (UNSHADED AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL FLOOD PLAIN) FLOODPLAIN AREA ZONE "AE" BASE FLOOD ELEVATIONS DETERMINED

THIS ESTIMATE IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS SHOWN FOR GENERAL FLOOD INSURANCE RATE (FIRM) PURPOSES ONLY AND NOT INTENDED TO DEPICT SPECIFIC TRANSPORT CONDITIONS.

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LEGEND

SYMBOL	DESCRIPTION
	PROPOSED CATCH BASIN IN PAVEMENT / GRADE
	PROPOSED MANHOLE WITH GRATE TOP
CO	PROPOSED STORM SEWER CLEANOUT
	PROPOSED STORM SEWER PIPE
1	6" PVC STM SEWER @ 1.00% MIN
2	4" PVC STM SEWER @ 1.00% MIN

KEY NOTES:

1. APPROXIMATE LOCATION OF EXISTING GAS LINE. EXISTING GAS LINE SHALL BE REMOVED AND RELOCATED. REFERENCE MEP PLANS.
2. EXISTING GAS VALVE AND METER TO BE RELOCATED. REFERENCE MEP PLANS FOR DETAILS.
3. CONNECT PROPOSED DOWNSPOUT TO UNDERGROUND STORM SEWER. SEE DOWNSPOUT CONNECTION DETAIL SHEET C703.
4. PROPOSED 12' X 6' WYE EXTENSION.
5. PROPOSED CONCRETE INFLUENT STRUCTURE. SEE DETAIL SHEET C703.
6. TOWER SEAL BARS INTO EXISTING CONCRETE FILLET CHANNEL AND GROUT IN PLACE FOR CONNECTION BETWEEN PROPOSED CONCRETE SLOPE PAVING AND EXISTING CONCRETE FILLET CHANNEL.
7. PROPOSED 10' x 10' CONCRETE SLOPE PAVING INSTALL PER INFLUENT STRUCTURE DETAIL ON SHEET C703.
8. APPROXIMATE LOCATION OF NEW GAS METER. TIE INTO EXISTING GAS LINE. REFERENCE MEP PLANS FOR DETAILS.

T.B.P.E. FIRM #15114

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APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/7/15

N PLAN TRUE

Revision / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
LICENSED
PROFESSIONAL ENGINEER
12-18-15

Huckabee

STORM SEWER PLAN (SHEET 2 OF 3)

Job No. 1701-01-00
Drawn By: JS / GLY
Date: 09/24/2015
Sheet No. C302
Sheet of

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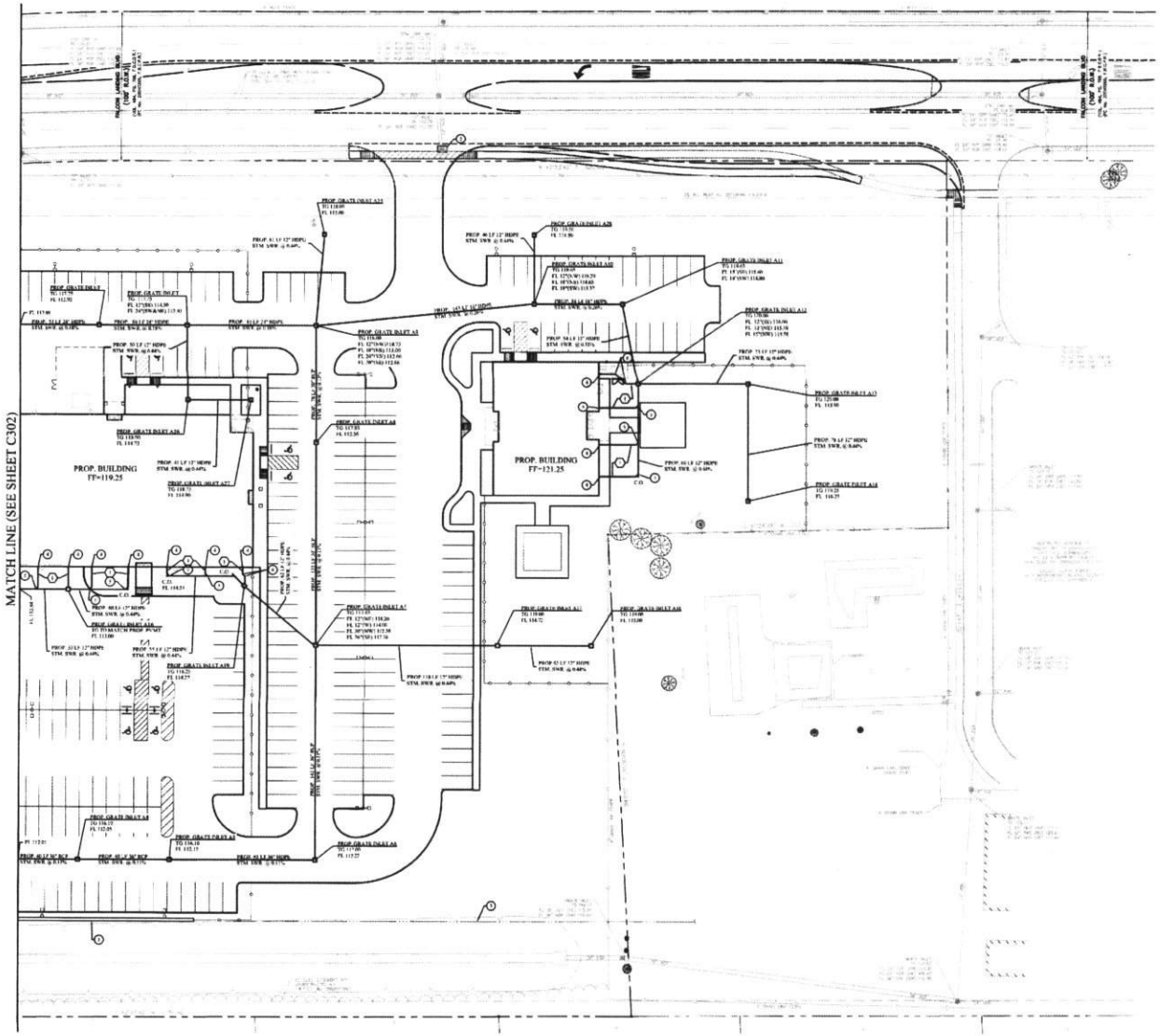

SCALE: 1"=30'

BENCHMARK:

BM - A DISK SET IN EAST END OF SOUTH HEADWALL APPROXIMATELY 5.65 MILE WEST OF MILEPOST No. 23 AND APPROXIMATELY 75 FEET SOUTH OF CENTERLINE OF I.H. 10 (PICED ID. Q740).
ELEV.=100.32 (NGVD 29, 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "B" - COTTON SPINDLE WITH BRASS SHINER STAMPED "HOLT HULT SURVEYING" IN POWER POLE LOCATED IN THE NORTHWESTERLY RIGHT OF WAY LINE OF PROPOSED FALCON LANDING BOULEVARD AND 5 FEET NORTH OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT.
ELEV.=[illegible]

TBM "D" - BOX CUT AT END OF MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEV.(NGVD)=116.29'

TBM "G" - BOX CUT ON TOP OF "X" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEV.(NGVD)=117.32'

TBM "H" - BOX CUT ON TOP OF "X" INLET AS CLA-HOLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. ROBERTA WRIGHT RYLANDER ELEMENTARY SCHOOL.
ELEV.(NGVD)=117.47'

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NUMBER 48201C0130L (COMMUNITY PANEL NO. 480296 0130 L MAP REVISED DATE APRIL 2, 2014 THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" (UNSHADED AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AH" BASE FLOOD ELEVATION DETERMINED).

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED CATCH BASIN IN PAVEMENT - GRADE
	PROPOSED MANHOLE WITH GRATE TOP
CO	PROPOSED STORM SEWER CLEANOUT
	PROPOSED STORM SEWER PIPE
1	6" PVC STM SWR @ 1.00% MIN.

KEY NOTES:

1. APPROXIMATE LOCATION OF EXISTING GAS LINE. EXISTING GAS LINE SHALL BE REMOVED AND RELOCATED. REFERENCE MEP PLANS.
2. EXISTING CURB INLET TO BE REMOVED AND DISPOSED OF. REFER TO C1.1, SHEET C303.
3. EXISTING DATUM TO REMAIN. CONTRACTOR SHALL FIELD VERIFY TOP AND INVERT DEPTH PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF CONFLICT EXISTS.
4. CONNECT PROPOSED DOWNSPOUT TO PROPOSED UNDERGROUND STORM SEWER SYSTEM. SEE DOWNSPOUT CONNECTION DETAIL, SHEET C703.
5. PROPOSED 15 6.6" WYE FITTING.
6. PROPOSED 6" X 6" BEND.

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APPROVED: _____ DEVELOPMENT COORDINATOR
DATE: 12/21/15

N PLAN TRUE

Revision / Date

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
93396
LICENSED
PROFESSIONAL ENGINEER
12-18-15

Huckabee
ARCHITECTS • ENGINEERS • CONSTRUCTORS • PLANNERS
[illegible]
713-977-8225

STORM SEWER PLAN
(SHEET 3 OF 3)

Job No.	Sheet No.
110-23-01	C303
Drawn By: JM / DLY	
Date: 09/30/2015	

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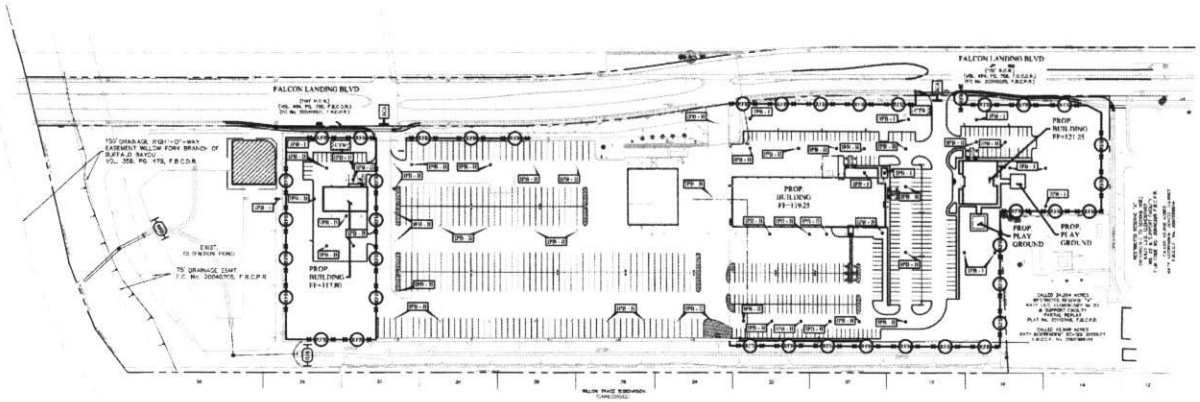

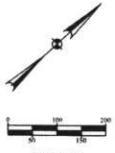

SCALE: 1"=100'

LEGEND

SYMBOL	DESCRIPTION
DPI-1	PROPOSED INLET PROTECTION BARRIER FOR STAGE 1 INLETS
DPI-2	PROPOSED INLET PROTECTION BARRIER FOR STAGE 2 INLETS
SCE-1	PROPOSED STABILIZED CONSTRUCTION ACCESS (LOCATION WITH ARCHITECT / OWNER)
CTW-1	PROPOSED CONCRETE TRUCK WASHOUT AREA (LOCATION WITH ARCHITECT / OWNER)
	PROPOSED REINFORCED FILTER LARGE (TYPE I)
	PROPOSED FILTER UAM

NOTE: ANY & CONSTRUCTION & COMPLETE CONTRACTOR SHALL FLUSH AND CLEAN ALL NEW STORM SEWER PIPING (INSTALLED BY SELF) AS WELL AS EXISTING DRAINAGE INLETS ON BOTH SIDES OF PROPERTY AND ADJACENT FLOW CHANNELS UPSTREAM OF FALL. EXISTING DRAINAGE SYSTEM SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE BY OWNER.

BENCHMARK:

BMB - A DISK SET IN EAST END OF SOUTH HEADWALL APPROXIMATELY 0.42 MILE WEST OF MILEPOST No. 29 AND APPROXIMATELY 17 FEET SOUTH OF CENTERLINE OF F.M. 1093 (PROJECT 0-2500).
ELEV. = 105.52 (NGVD 29, 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "B" - COTTON SPINDLE WITH BRASS DISKET STAMPED "WEST HILT SURVEYING" IN POWER POLE LOCATED ON THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD (1ST NORTH OF THE SOUTHEAST CORNER OF THE SUBJECT TRACT)
ELEV. = 111.87

TBM "F" - BOX CUT AT ENDS OF MEDIAN LOCATED ON THE NORTHWESTERLY MEDIAN OF FORM LANE JOIN THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 116.30'

TBM "G" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD (1ST "C" INLET NORTHEAST OF THE MOST NORTHEAST SALY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 117.37

TBM "H" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD (1ST "C" INLET NORTHEAST OF THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 123.49'

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NUMBER 48201C0145 H (MONTGOMERY COUNTY, TEXAS) DATED MAP REVISED DATE: APRIL 2, 2014, THE SUBJECT PROPERTY LIES WITHIN: THE AREA DESIGNATED AS ZONE "X" UNSHADED AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" BASE FLOOD ELEVATION DETERMINED.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES (FIRM) AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

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APPROVED: DEPARTMENT COORDINATOR

DATE: 12/21/15

N PLAN TRUE

Date

Revision /

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
92990
LICENSED
PROFESSIONAL ENGINEER
12-18-15

Huckabee

STORM WATER POLLUTION PREVENTION PLAN

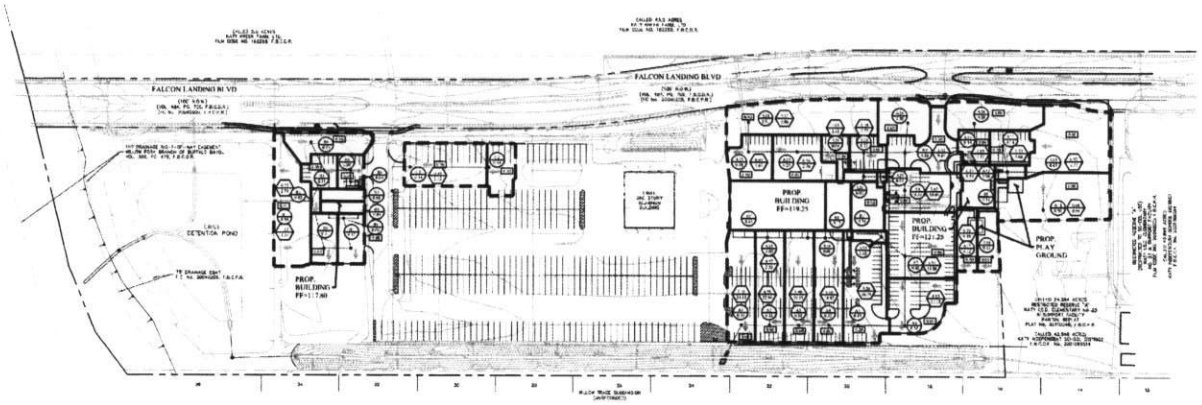
Job No. 117-23.01

Drawn By: JV / DLY

Date: 09/24/2015

Sheet No. C304

Sheet of



SCALE: 1"=100'

LEGEND

SYMBOL	DESCRIPTION
*	PROPOSED CATCH BASIN IN PAVEMENT - GRASS
	PROPOSED DRAINAGE AREA BOUNDARY
	PROPOSED DRAINAGE SUB-AREA BOUNDARY
	DRAINAGE AREA NUMBER (SEE FOR GREEN TOTAL)
	POND AREA (BREAK LINES) POND AREA (C.F.S.)
	PROPOSED EXTREME EVENT FLOW DIRECTION
	100 YEAR PONDING DEPTH (Feet)

BENCHMARK:

BM9 - A DISK SET IN EAST END OF BOLTS HEADS ALL APPROXIMATELY 0.45 MILE WEST OF MILEPOST No. 23 AND APPROXIMATELY 17 FEET SOUTH OF CENTER OF ROAD (PICKED ID: [illegible]).
ELEV. - 105.32 (NGVD 29, 1967 ADJ.)

TEMPORARY BENCHMARKS:

TBM "E" - CUTTON SPIKE IN 9 INCH BRASS MINER STAMPED "HOLT BELT SURVEYING" IN POWER POLE LOCATION IN THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD ~315' NORTH OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT
ELEV. =116.67

TBM "F" - IRON LUG AT ENDCAP MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF FALCON LANDING BLVD. THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER
ELEVATION = 116.26'

TBM "G" - BOLT CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST 5" TO 6" FT NORTHEAST OF THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 117.17

TBM "H" - IRON LUG ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER
ELEVATION = 122.67

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NUMBER 48201C0145L (COMMUNITY PANEL NO. 480296 0145L), MAP REVISED DATE: APRIL 2, 2014. THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" (BASE FLOOD ELEVATION DETERMINED).

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THE INFORMATION OF THE FEDERAL FLOOD INSURANCE RATE MAPS ARE ONLY AND IS NOT INTENDED TO EXISTING SPECIFIC PLANNING CONDITIONS.

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APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

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Date

Revision /

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
82986
LICENSED
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12-16-15

Huckabee

DRAINAGE AREA MAP

Job. No. 1781.01.01	Sheet No. C305
Sheet By: JM / DLY	
Date: 06/04/2015	
Sheet	of

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S·G ENGINEERING CONSULTANTS, LLC

Project Name: SOUTH TRANSPORTATION CENTER, KATY ISD
Number: HA 001.00

S·G ENGINEERING CONSULTANTS, LLC

Project Name: SOUTH TRANSPORTATION CENTER, KATY ISD
Number: HA 001.00

S·G ENGINEERING CONSULTANTS, LLC

Project Name: SOUTH TRANSPORTATION CENTER, KATY ISD
Number: HA 001.00

Revision / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
87998
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

DRAINAGE CALCULATIONS (2 yr)

Job No. 0701.00.01
Drawn By: JB / DLV
Date: 09/04/2015
Sheet No. C306
Sheet of

T.B.P.E. FIRM #15114

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APPROVED: _____ DIRECTOR OF DEVELOPMENT COORDINATION

DATE: 12/21/15

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S&G ENGINEERING CONSULTANTS, LLC

Project Name: SOUTH TRANSPORTATION CENTER, KATY ISD
Number: HA 007.00

Structure Number	Upstream Structure Number	Area Structure Number	Area (Acres)	Runoff Coefficient "C"	Time of Concentration (Minutes)	Intensity "I" (in/hr)	Sum of Loads (CFS)	Slope (ft/ft)	Manning's n-Value (10-Year Storm)	Span (Feet)	Rise (Feet)	Manning's "n"	Slope (%)	Design Capacity (CFS)	Diameter (Feet)	Design Velocity (Feet/sec)	Actual Velocity (Feet/sec)	Junction Loss "K"	Junction Loss (Feet)	Change in Hdr (Feet)	Outflow Elevation Area (Feet)	Inflow Elevation Area (Feet)	Critical Elevation Area (Feet)	Flowline Elevation Up (Feet)	Inflow Elevation Up (Feet)	Critical Elevation Up (Feet)	Hdr Elevation Up (Feet)	Cover (Feet)	Hydraulic Grade Line (Feet)
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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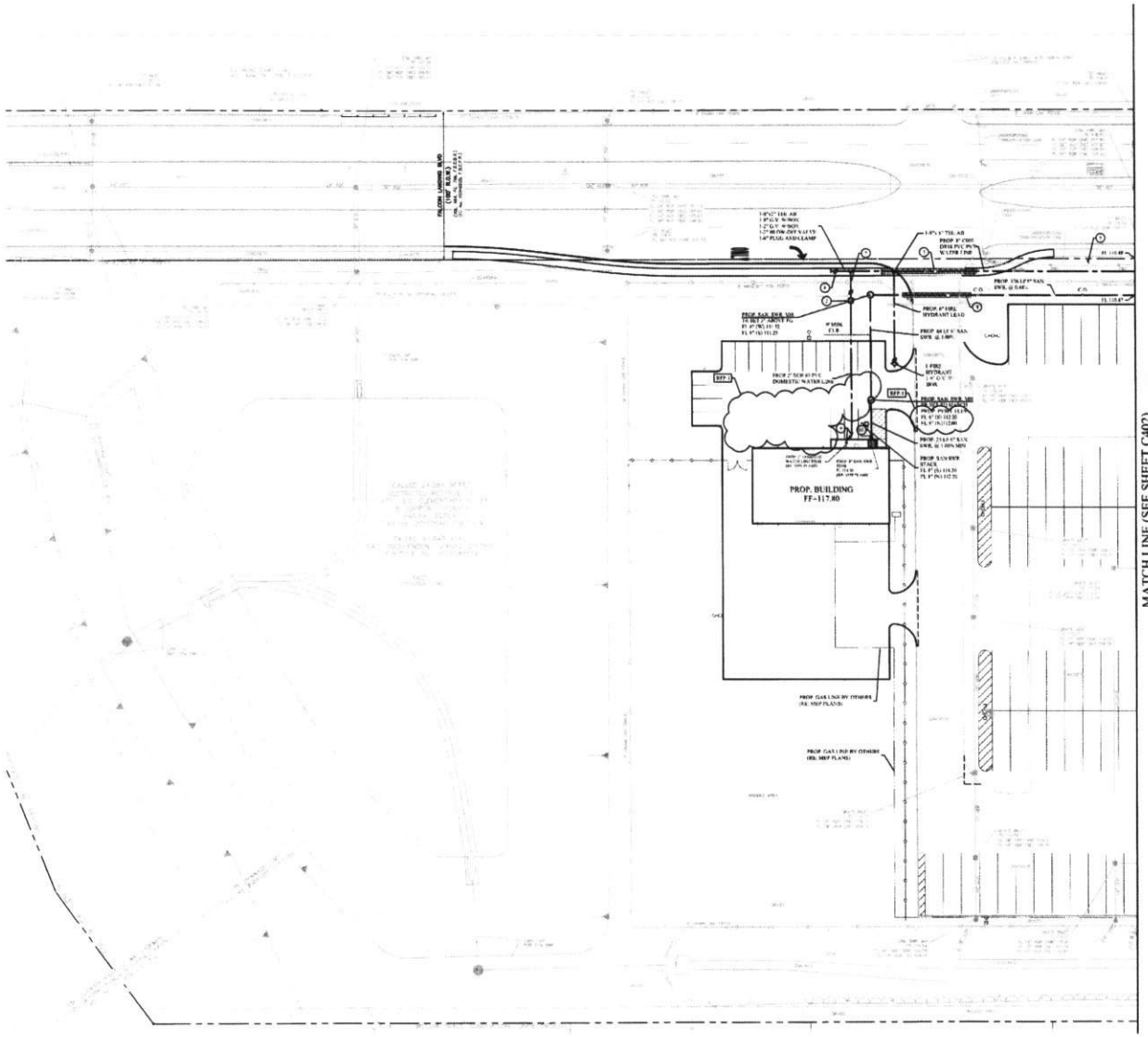

SCALE: 1"=30'

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED FLAG AND LAMP
	PROPOSED MANHOLE
	PROPOSED CLEANOUT
	PROPOSED SANITARY SEWER STACK
	PROPOSED SANITARY SEWER PIPE
	PROPOSED WATER PIPE

KEY NOTES:

1. [illegible]
2. [illegible]
3. PROPOSED 6" LF AUGER CONSTRUCTION.
4. PROPOSED 40 LF AUGER CONSTRUCTION.
5. CAUTION: EXISTING UNDERGROUND UTILITIES (TEL, ELEC, GAS) MAY EXIST IN WORK AREA OR PROPOSED WATER LINE CONSTRUCTION. CONTRACTOR SHALL CALL TEXAS ONE CALL AND HAVE ALL UNDERGROUND UTILITIES MARKED PRIOR TO CONSTRUCTION.
6. [illegible]
7. CONTRACTOR SHALL MODIFY PROPOSED 2" WATER LINE UNDER EXISTING STRUCTURE IF NECESSARY.
8. PROPOSED WATER VALVE TO BE LOCATED IN PROPOSED SIDEWALK. SET VALVE TOP TO MATCH PROPOSED SIDEWALK GRADE.
9. PROPOSED 3-2" 45° BEND, AB.
10. PROPOSED 6"x6" SANITARY SEWER BLD. CIR.

BENCHMARK:

BM#: A 3/8SE SET BETAST END OF SOUTH SIDEWALK, APPROXIMATELY 0.45 MILE WEST OF MILLPORT, No. 21 AND APPROXIMATELY 37 FEET SOUTH OF CONVERSE DR. ELEV.=400.32 (NGVD 29, 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "2" - COTTON SPINDLE WITH BRASS SHINER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD AND NORTH OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT. ELEV.=116.67

TBM "5" - BOX CUT AT END OF KERBAN LOCATED ON THE SOUTHEASTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER. ELEVATION = 116.70

TBM "6" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF PILAT LOCATION ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST NORTHEASTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER. ELEVATION = 117.12

TBM "9" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF PILAT LOCATION ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST IN THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD BERGER & WRIGHT ELEMENTARY SCHOOL. ELEVATION = 115.45

FLOODPLAIN NOTE:

ACCORDING TO FIRM MAP NUMBER 48201C0130G (COMMUNITY PANEL NO. 480280 0130 G), MAP REVISED DATE APRIL 2, 2014, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" (UNSHADED: AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS A JOINT "AE" (BASE FLOOD ELEVATIONS DETERMINED).

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO INDICATE SPECIFIC FLOODING CONDITIONS.

BEFORE YOU DIG Texas811.com

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
1904 AVENUE D, SUITE B
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(281) 392-7337

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

Revision / Date

Project:

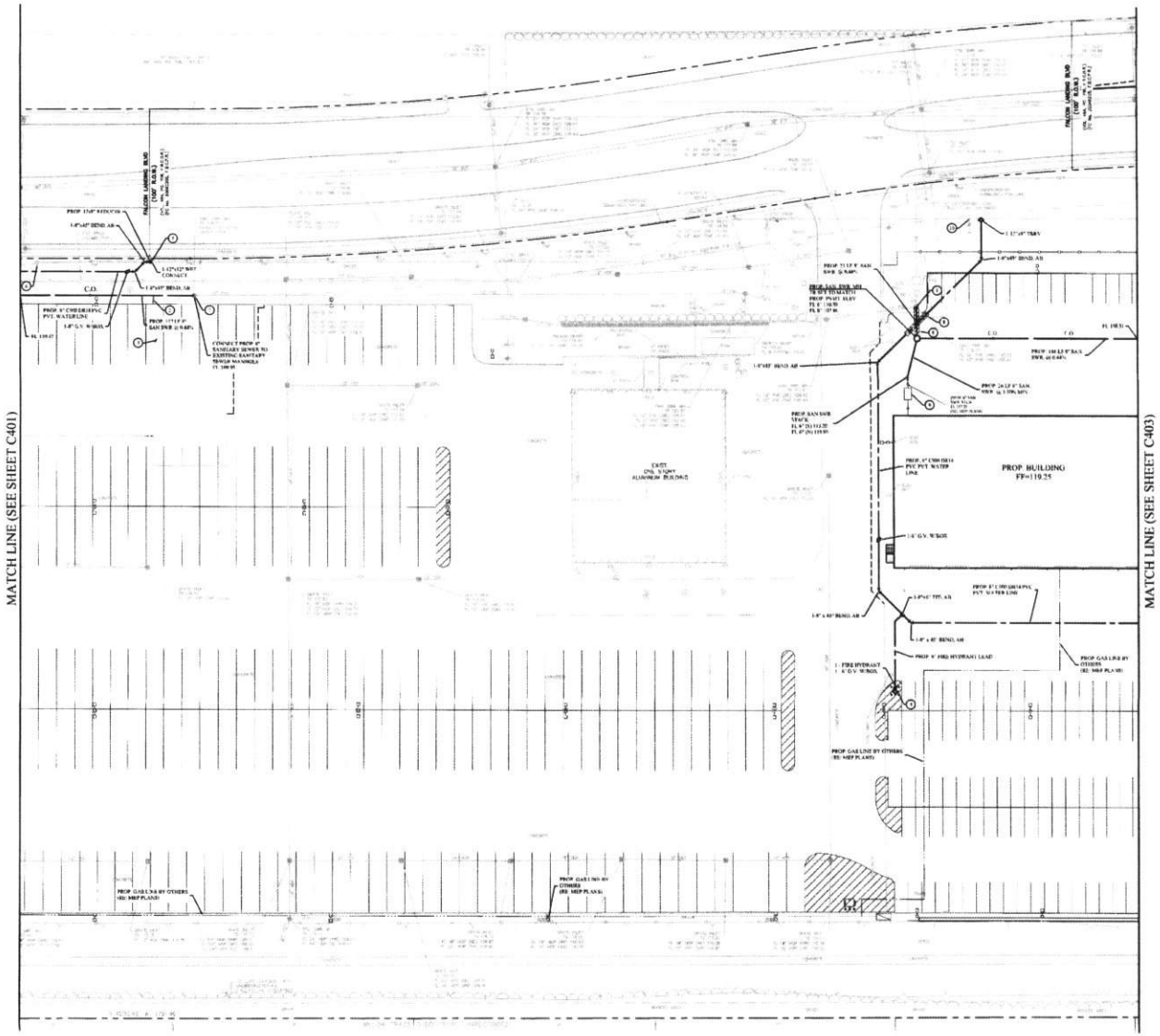
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
93995
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

WATER AND SANITARY SEWER PLAN (SHEET 1 OF 3)

Job No. 1701-01-01
Drawn By: JR / GLY
Date: 12/24/2015
Sheet No. C401
Sheet of



LEGEND:

SYMBOL	DESCRIPTION
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED TAPPING SLEEVE AND VALVE
	PROPOSED REDUCER
	PROPOSED MANHOLE
CO	PROPOSED CLEANOUT
	PROPOSED SANITARY SEWER PIPE
	PROPOSED WATER PIPE

KEY NOTES:

1. ADJUST EXISTING SANITARY SEWER MANHOLE TOP TO BE 1' ABOVE PROPOSED CONCRETE CURB FLOWLINE PROPOSED 8" SANITARY SEWER (E.G. FL 105.76)
2. CONTRACTOR SHALL REMOVE EXISTING PRIVATE BACKFLOW PREVENTER (COORDINATE SAVER WITH KATY ISD. CUT AND PLUG EXISTING PRIVATE WATER LINE BEHIND EXISTING GATE VALVE.
3. CONTRACTOR SHALL CUT AND PLUG EXISTING WATER LINE ON BENCH SIDE OF EXISTING BACKFLOW PREVENTER. CONTRACTOR SHALL UNCOVER AND REMOVE EXISTING WATER LINE AND SANITARY CLEAN OUT (NEW) TO TEMPORARY BUILDINGS UNDER PROPOSED PAVEMENT AREAS.
4. CONTRACTOR SHALL PROVIDE FOUR (4) BULLARDS ABOVE MONUMENTS ON GRADE.
5. TERMINATION OF EXISTING 12" WATER LINE BEHIND (E.APPROXIMATE CONTRACTOR SHALL FIELD LOCATE) THE END OF EXISTING 12" WATER LINE AND MAKE CONNECTION ACCORDINGLY.
6. CAUTION: EXISTING UNDERGROUND UTILITIES IN THIS AREA MAY EXIST IN WORK AREA OF PROPOSED WATER LINE CONSTRUCTION. CONTRACTOR SHALL CALL TEXAS ONE CALL AND HAVE ALL UNDERGROUND UTILITIES MARKED PRIOR TO CONSTRUCTION.
7. CONTRACTOR SHALL REMOVE WORK DONE IN PAVEMENT AND REPLACE WITH TYPE B CONCRETE PAVEMENT. CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY SEWER MANHOLE COORDINATE PENETRATIONS WITH ENGINEER. PERFORM DEMOLITION PRIOR TO INSTALLING SANITARY FOR MAIN TO NEW BUILDING. NOTE THAT PROPOSED INVERTS AND ELEVATIONS MAY CHANGE BASED UPON RESULTS. REPLACE WORN DEFECTIVE AS REQUIRED.
8. CENTER ONE POINT ON WATER LINE AND SANITARY SEWER AT CROSSING. REFERENCE CROSSING RULES ON SHEET C700.
9. PROVIDE OIL/WATER SEPARATOR AND BASIN. WELL. SEE MEP PLANS FOR DETAILS.
10. AT BEGINNING OF GATE VALVE AND FIRE MAY EXIST NEAR PROPOSED 8" SSMV. CONTRACTOR SHALL FIELD INVESTIGATE AND MAKE THE ADJUSTING 6" GATE VALVE AND STUB CAN BE BENDS AND WITH INCIDE WORKING DRINK. IF SO, CONTRACTOR SHALL CHOOSE BACK PROPOSED 8" SSMV.

BENCHMARK

RNB - A DISK SET IN EAST END OF SOUTH HEADWALL APPROXIMATELY 0.5 MILE WEST OF MILEPOST No. 23 AND APPROXIMATELY 17 FEET SOUTH OF CENTERLINE OF I-10. 1983 (PROJ 39) (2000)
ELEV = 108.52' (NGVD 29, 1973 ADJ.)

TEMPORARY BENCHMARKS

TBM "F" - COTTON SPINDLE WITH BRASS DISHER ST AMPED "WEST 2010 T SURVEYING" IN POWER POLE LOCATED IN THE NORTHWESTERLY RIGHT OF WAY LINE OF PROPOSED FALCON LANDING BOULEVARD +/-15' NORTH OF THE SOUTHWEST CORNER OF THE SUNSET TRACT
ELEV = 116.67'

TBM "E" - BOX CUT AT END OF MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER
ELEVATION = 116.28'

TBM "D" - BOX CUT ON TOP OF "N" NO. 4" AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER
ELEVATION = 117.17'

TBM "B" - BOX CUT ON TOP OF "N" INLET AT CENTERLINE OF 19.5' LOCATED ON THE FOURTHLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SAMUELA WRIGHT BYLANDER ELEMENTARY SCHOOL
ELEVATION = 121.63'

FLOODPLAIN NOTE:

ACCORDING TO FIRM MAP NUMBER 48201C0130C (COMMUNITY-PANEL NO. 480280 0130 L) MAP EFFECTIVE DATE APRIL 2, 2014 THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" (UNSHADED) AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AO" BASE FLOOD ELEVATIONS DETERMINED.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO BE USED FOR FLOOD INSURANCE RATES (FIRM) AND MAPS ESTIMATE TO DETERMINE SPECIFIC FLOODING CONDITIONS.

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
1706 AVENUE H, SUITE B
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O: 832-437-7577

APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/21/15

N PLAN TRUE

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Revision / Date:

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
92996
LICENSED
PROFESSIONAL ENGINEER
12-18-15

Huckabee

WATER AND SANITARY SEWER PLAN (SHEET 2 OF 3)

Job No. 157-21.01
Sheet No. C402
Drawn By: JS/ TB/ T
Date: 09/24/2015
Sheet of

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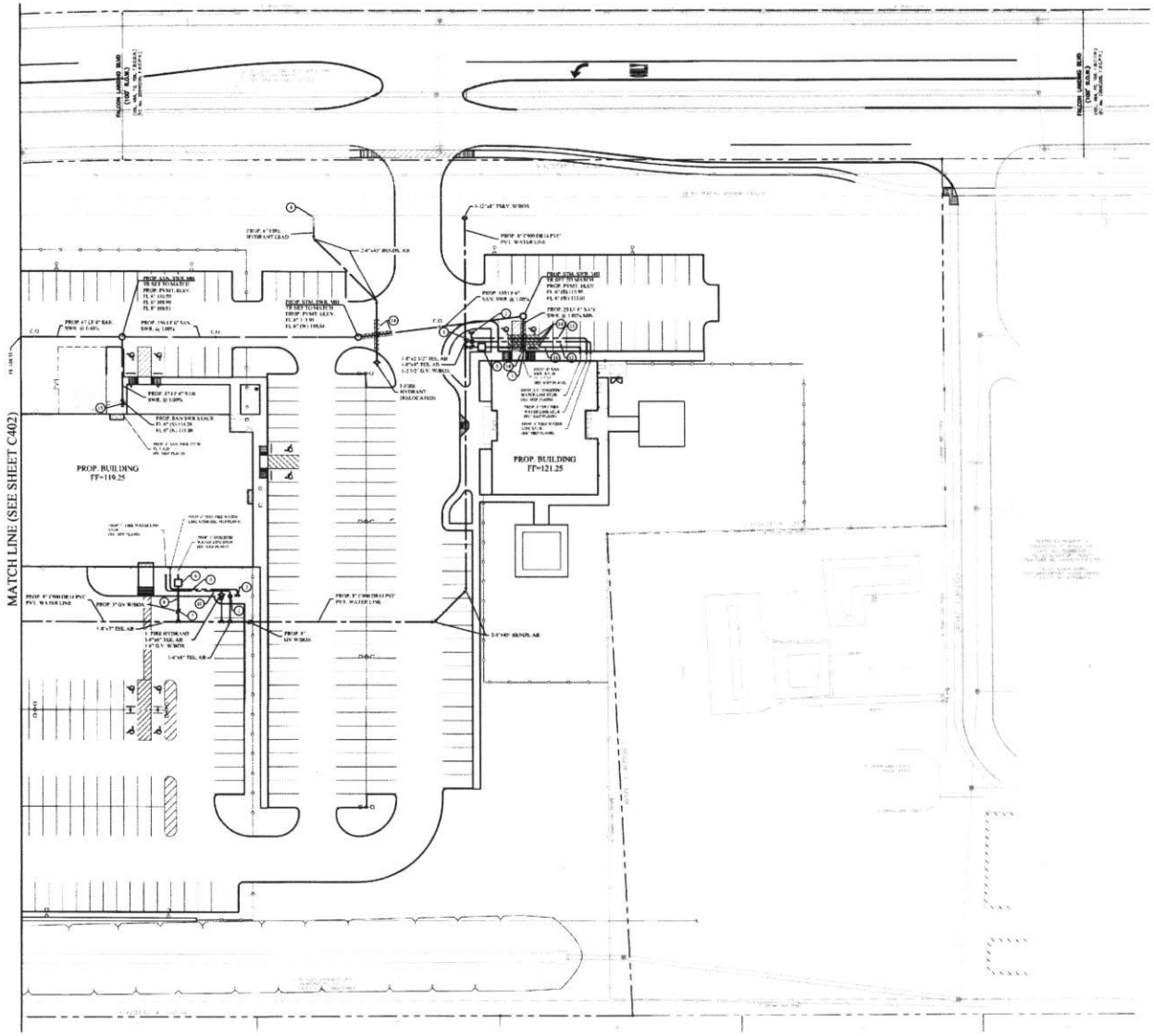
MATCH LINE (SEE SHEET C402)
FALCON LANDING BLVD
PROP. BUILDING
FF=119.25
PROP. BUILDING
FF=121.25
PROP. 6" FIRE HYDRANT LEAD
PROP. 8" CWDIP (DIP) PVT. WATER LINE
PROP. 3" GV W/BOX
PROP. 8" GV W/BOX
1-FIRE HYDRANT 1-8"x90° TEE, AB 1-8" GV W/BOX
1-FIRE HYDRANT (REACH ARES)
1-12"x90° TEE, AB
1-8"x45° BEND, AB
1-8"x45° TEE, AB
1-12"x90° TEE, AB
1-12"x90° TEE, AB
1-12"x90

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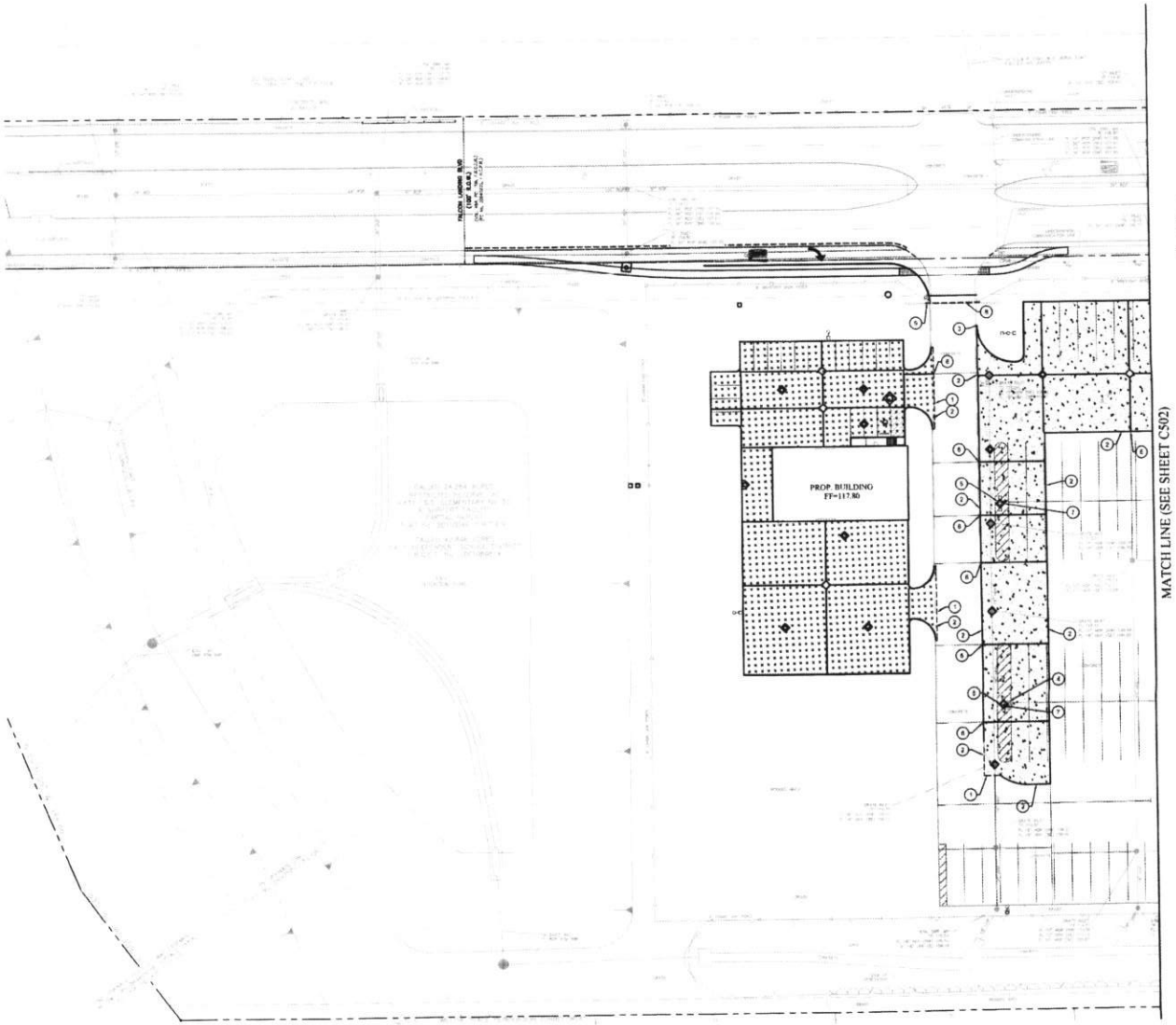

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED 6" REINFORCED CONCRETE PAVEMENT ON 6" CRUSHED LIMESTONE SUBGRADE WITH #4 BARS ON 12" CENTERS OR #4 BARS ON 18" CENTERS (REFERENCE GEOTECHNICAL REPORT)
	PROPOSED 7" REINFORCED CONCRETE PAVEMENT ON 6" CRUSHED LIMESTONE SUBGRADE WITH #4 BARS ON 18" CENTERS (REFERENCE GEOTECHNICAL REPORT)
	PROPOSED EXPANSION JOINT
	PROPOSED FULL DEPTH SAWCUT
	PROPOSED AREA DRAIN INLET (PAVING) - GRASS
	PROPOSED MANHOLE

KEY NOTES:

1. PROPOSED FULL DEPTH SAWCUT
2. CONNECT TO EXISTING PAVEMENT SECTION PER NOTE 13 UNDER PAVING CONSTRUCTION NOTES ON SHEET C501
3. TAPER CURB FROM 6" TO 3" OVER 5 FEET AND 2ND TURN AT MATCHING POINT (TYP.)
4. REMOVE EXISTING PEDESTRIAL JUNCTION BOXES AND REPLACE WITH TRAFFIC RATED JUNCTION BOXES AT PROPOSED PAVEMENT GRADES. REFERENCE MEP PLANS FOR DETAILS.
5. EXISTING LIGHT POLE. SUBMAIN. EXERCISE CAUTION WHEN SAWCUTTING AROUND EXISTING LIGHT POLES.
6. LINE UP PROPOSED EXPANSION JOINT WITH EXISTING EXPANSION JOINT
7. PROVIDE BLOCK OUT AROUND EXISTING LIGHT POLE
8. PROPOSED 24" PVC IRRIGATION SLEEVE. STUB UP AT ABOVE LANDSCAPE AREA (AT REFERENCE LANDSCAPE PLANS)
9. SLEEVE TO BE AT 24" BELOW EXISTING DRIVEWAY

NOTES TO SHEET:

1. CONTRACTOR SHALL INSTALL SAWED JOINTS BETWEEN EXPANSION JOINTS (JOINTS AT TYPICAL SPACING OF 12' OR 15' EQUALLY SPACED FULL CUT SAWED JOINTS WITHIN 12 HOURS OF POURING CONCRETE

BENCHMARK

BM1 - A DISK SET IN EAST END OF WALL IN HEADWALL APPROXIMATELY 30 MILE WEST OF MEDIANA NO. 25 AND APPROXIMATELY 1.7 MILES SOUTH OF CYPRESS, ON FM 1093 (PROJECT ID: 52966).
ELEV.=125.52' (NGVD 29, 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "E" - CUTTON SPIKE WITH BRASS DISKS STAMPED "WEST 2011 FLOW GUAGE" IN POWER POLE LOCATED IN THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING BOULEVARD JUST NORTH OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT
ELEV.=116.87

TBM "F" - NAIL CUT AT END OF MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD BUS TRANSPORTATION CENTER
ELEVATION = 116.59

TBM "G" - NAIL CUT ON TOP OF 3" INLET STEEL PEDESTAL TO BE CUT FOR EXTENSION SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "G" INLET NORTHEAST OF THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY ISD BUS TRANSPORTATION CENTER.
ELEVATION = 115.47

TBM "H" - NAIL CUT ON TOP OF "C" INLET AT CENTERLINE OF FIRST LOCATION ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST TO THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY ISD BUSH TRANSPORTATION CENTER ELEMENTARY SCHOOL
ELEVATION = 122.40'

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NUMBER 48201C0205H (COMMUNITY-PANEL NO. 480288 0205 H), MAP REVISED DATE: APRIL 2, 2014 THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "AE" (SPECIAL FLOOD HAZARD AREAS DETERMINED TO BE SUBJECT TO 100-YEAR FLOOD; BASE FLOOD ELEVATIONS DETERMINED)

THIS ELEVATION OF FLOOD HAZARD IS BASED ON THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS INDETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO DEPICT ACTUAL FLOODING CONDITIONS.

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T.B.P.E. FIRM #15114

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O: 832-857-7575

APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/21/15

N PLAN TRUE

Revisions / Date

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

W. JOEL SEYBERT
67999
LICENSED
PROFESSIONAL ENGINEER
12-18-15

Huckabee

PAVING JOINTING PLAN
(SHEET 1 OF 3)

Job No.	Sheet No.
1701-21-01	C501
Drawn By: JR / DLT	
Date: 09/01/2015	
Sheet of	

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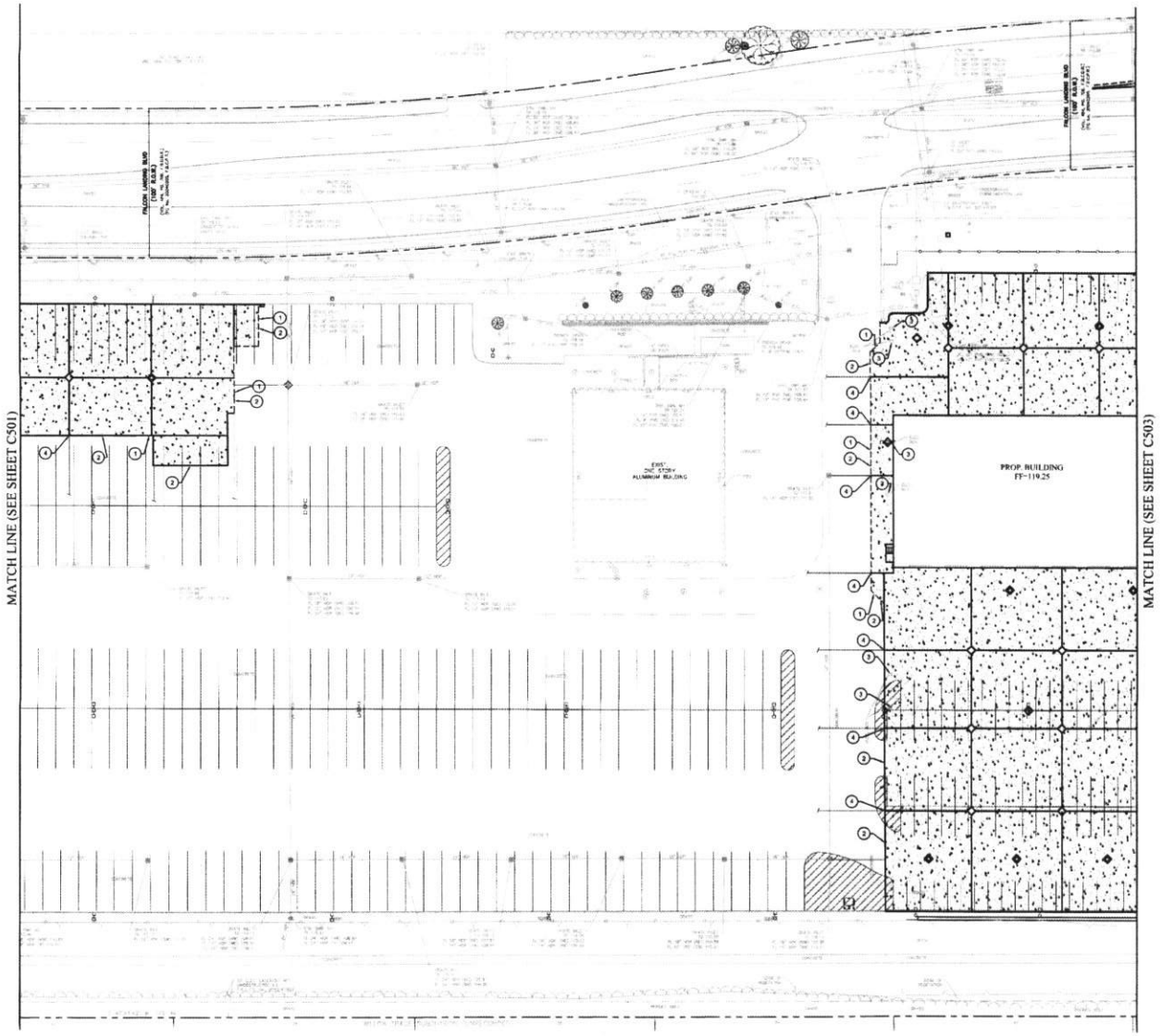

SCALE: 1"=30'

SYMBOL	DESCRIPTION
	PROPOSED 7" REINFORCED CONCRETE PAVEMENT ON 4" OF LIME-FLYASH TREATED SUBGRADE WITH 18 BARS ON 18" CENTERS (REFERENCE GEOTECHNICAL REPORT)
	PROPOSED EXPANSION JOINT
	PROPOSED FULL DEPTH SAWCUT
	PROPOSED CATCH BASIN IN PAVEMENT - GRASS
	PROPOSED MANHOLE

KEY NOTES:

1. PROPOSED FULL DEPTH SAWCUT
2. CONNECT TO EXISTING PAVEMENT SECTION PER NOTE 11 UNDER "PAVING CONSTRUCTION NOTES" ON SHEET C501
3. REMOVE EXISTING ELECTRICAL JUNCTION BOXES AND REPLACE WITH HEAVY DUTY JUNCTION BOXES SET AT PROPOSED PAVEMENT GRADE OR OTHER REFERENCED SHEET PLANS FOR DETAILS
4. LINE UP PROPOSED EXPANSION JOINT WITH EXISTING EXPANSION JOINT

NOTES TO SHEET:

1. CONTRACTOR SHALL INSTALL SAWED DOWELED EXPANSION JOINTS (EXPOSED) AT FREQUENCY SPACED INTERVALS NOT TO EXCEED 15 FEET. CUT SAWED JOINTS TO BE 1/4 DEPTH OF PAVING CONCRETE

BENCHMARK:

BM1 - A DISK SET IN EAST END OF SOUTH HEADWALL APPROXIMATELY 0.45 MILE WEST OF MILEPOST No. 25 AND APPROXIMATELY 17 FEET SOUTH OF CENTERLINE OF S.H. 1093 (PACED ID: 0794).
ELEV.=108.87 (NGVD 29, 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "C" - CUTTER SPINDLE WITH BRASS WASHER STAMPED "WEST BELT SURVEYING" IN POWER POLE LOCATED IN THE NORTHWESTERLY RIGHT-OF-WAY LINE OF PROPOSED FALCON LANDING BOULEVARD +/-225' NORTH OF THE SOUTHWEST CORNER OF THE SURVEY TRACT
ELEV.=110.67

TBM "B" - BOX CULVERT END OF MEDIAN LOCATED ON THE SOUTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 116.20'

TBM "D" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 117.7'

TBM "B" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST SOUTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. SOUTH TRANSPORTATION CENTER.
ELEVATION = 122.47

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NUMBER 48201C0195 L (EFFECTIVE DATE: AUGUST 16, 2007) THE PROPERTY THAT IS SUBJECT TO THIS SURVEY IS NOT LOCATED IN THE AREA DESIGNATED AS ZONE "B" (UNSHADED AREA) DETERMINED TO BE OUTSIDE THE 500-ANNUAL CHANCE FLOODPLAIN OF KATY ZONE "AE" BASE FLOOD ELEVATIONS DETERMINED.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO REFLECT ANY OTHER FLOODING CONDITIONS.

T.B.P.E. FIRM #15114

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1706 ALVERT D. SUITE B
KATY, TEXAS 77493
O. 832-475-7577

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/21/15

N PLAN TRUE

Revision / Date

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL REVIERT
92999
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

PAVING JOINTING PLAN (SHEET 2 OF 3)

Job No. 1514-06-01
Drawn by: JR / GJ
Date: 09/24/2015
Sheet No. C502
Sheet of

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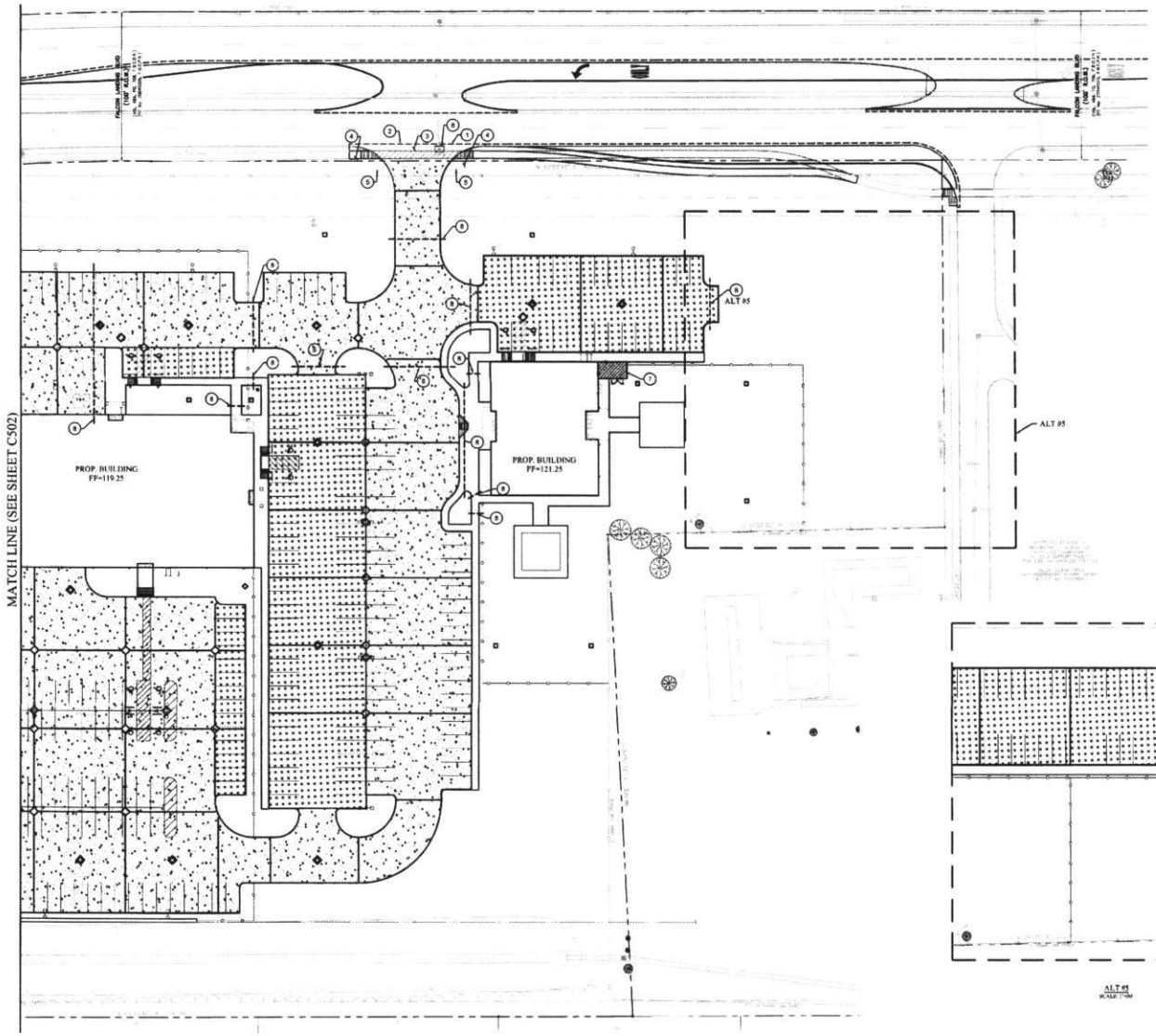

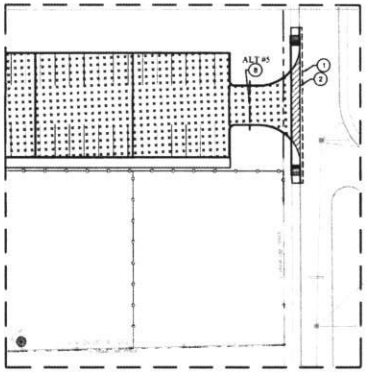

ALT #5
SCALE: 1"=30'

SCALE: 1"=30'

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED 6" REINFORCED CONCRETE PAVEMENT ON 6" OF CRUSHED STONE BASE OVER SUBGRADE WITH #3 BARS ON 12" CENTERS OR #4 BARS ON 24" CENTERS (REFERENCE GEOTECHNICAL REPORT)
	PROPOSED 7" REINFORCED CONCRETE PAVEMENT ON 6" OF CRUSHED STONE OVER SUBGRADE WITH #4 BARS ON 18" CENTERS (REFERENCE GEOTECHNICAL REPORT)
	PROPOSED EXPANSION JOINT
	PROPOSED FULL DEPTH SAWCUT
	PROPOSED CATCH BASIN IN PAVEMENT (GRATE)
	PROPOSED MANHOLE

KEY NOTES:

1. PROPOSED FULL DEPTH SAWCUT
2. CONNECT TO EXISTING PAVEMENT SECTION PER NOTE 2 UNDER "PAVING CONSTRUCTION NOTES" ON SHEET C000
3. PROPOSED CONCRETE DRIVEWAY PER FORT BEND COUNTY STANDARDS. SEE DETAIL ON SHEET C506.
4. REMOVE EXISTING PUBLIC SIDEWALK FOR DRIVEWAY CONSTRUCTION. REPLACE PER FORT BEND COUNTY STANDARDS.
5. PROPOSED ADA RAMP ON PUBLIC SIDEWALK PER TxDOT STANDARDS. SEE DETAIL ON SHEET C506.
6. SEE SHEETS C501 & C502 FOR DETAILS ON UTILITY RELOCATION WORK.
7. PROPOSED MECHANICAL PARKING FOR 42 UNITS. 6" REINFORCED CONCRETE WITH #4 BARS ON 12" CENTERS ON 6" DEEP CRUSHED STONE BASE ON PER GEOTECHNICAL REPORT.
8. PROPOSED 4" PVC IRRIGATION SLEEVES. SEE PLAN AND CONFIRM DEPTH OF GRADE AND CAP REFERENCE LANDSCAPE PLANS.

NOTES TO SHEET:

1. CONTRACTOR SHALL INSTALL SAWED JOINTS BETWEEN EXPANSION JOINTS FOLLOWING AT EVENLY SPACED INTERVALS NOT TO EXCEED 15 FEET. CUT SAWED JOINTS WITHIN 12 HOURS OF POURING CONCRETE.

BENCHMARK

BM8 - A DISK SET IN EAST END OF SOUTH HEADWALL APPROXIMATELY 0.45 MILE EAST OF MILEPOST No. 29 AND APPROXIMATELY 17 FEET SOUTH OF CENTERLINE OF F.M. 1093 (PROP. 75-2700).
ELEV.=100.57 (NAVD 29 / 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "0" - COTTON SPINDLE WITH BRASS DISKS STAMPED "STRT BOLT SURVEYING" IN POWER POLE LOCATED IN THE NORTHWESTERLY MEDIAN OF TURN LANE FOR THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER.
ELEVATION = 116.50'

TBM "1" - BOX CUT ON TOP OF "I" INLET AT CENTERLINE OF INLET LOCATED ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST NORTHWESTERLY DRIVEWAY INTO THE KATY ISD SOUTH TRANSPORTATION CENTER
ELEVATION = 115.57'

TBM "W" - BOX CUT ON TOP OF "C" INLET AT CENTERLINE OF INLET LOCATED ON SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "C" INLET NORTHEAST OF THE MOST NW DRIVEWAY TO DRIVEWAY INTO THE KATY ISD ROBERTA WRIGHT BYLANDER ELEMENTARY SCHOOL
ELEVATION = 122.48'

FLOODPLAIN NOTE:

ACCORDING TO F.I.R.M. MAP NUMBER 48157C0305H, (COMMUNITY-PANEL NO. 480280 0305L), MAP REVISED DATE APRIL 2, 2014, THE SUBJECT PROPERTY LIES WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE "AE" SAME FLOOD ELEVATION DETERMINED.

THIS STATEMENT IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS.

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
1704 AVENUE D, SUITE B
KATY, TEXAS 77493
O: 832-695-7577

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/4/15

N PLAN TRUE

Revision / Date

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
82398
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

PAVING JOINTING PLAN
(SHEET 3 OF 3)

Job No. 1701-01-01	Sheet No. C503
Drawn By: JS / GLF	
Date: 06/04/2015	
Sheet of	

Fax: Courier: Qty. 1x1 / 1x1 1-2, 3x per line: N/A
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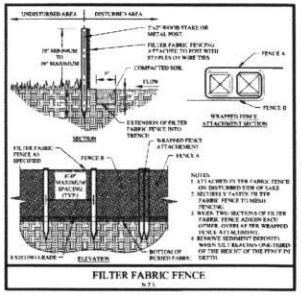

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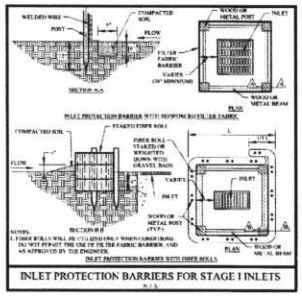

INLET PROTECTION BARRIERS FOR STAGE I INLETS
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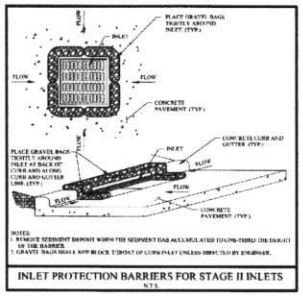

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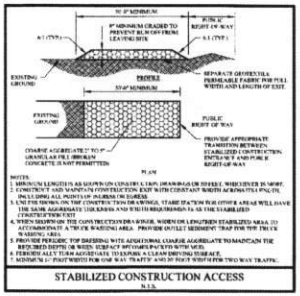

STABILIZED CONSTRUCTION ACCESS
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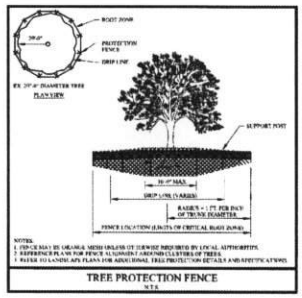

TREE PROTECTION FENCE
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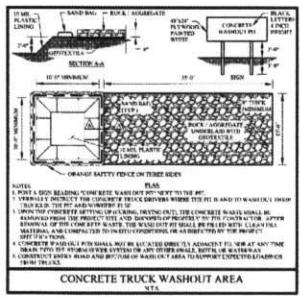

CONCRETE TRUCK WASHOUT AREA
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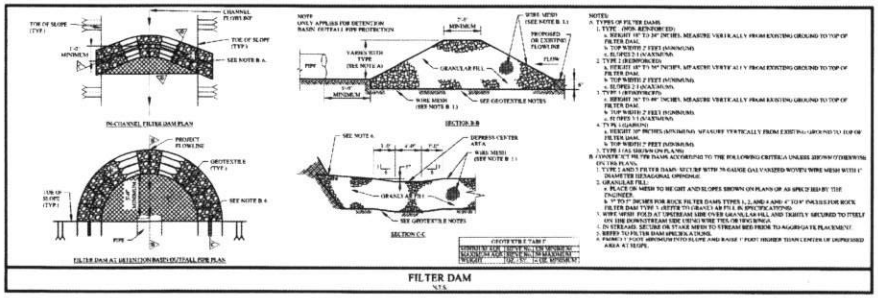

FILTER DAM
N.T.S.

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SWPPP REPORT:
THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AREA SWPPP REPORT. A PROJECT SPECIFIC STORM WATER POLLUTION PREVENTION REPORT (SWPPP) A SERIES AS FILED BY (S) AND SUBMITTING ALL APPLICABLE FORMS AS REQUIRED BY THE GOVERNING AUTHORITIES.

Revision / Date

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
12-16-15

Huckabee

T.B.P.E. FIRM #15114
S&G ENGINEERING CONSULTANTS, LLC
17704 STEVENS STREET
KATY, TEXAS 77493
O: 832-437-7777

APPROVED: DEVELOPMENT ENGINEER
DATE: 12/16/15

PLAN TRUE

STORM WATER POLLUTION PREVENTION DETAILS

Job No. 1701.01.01
Sheet No. C701
Drawn By: JW / DLV
Date: 10/26/2015
Sheet of

Plot Contact: Dec 16, 2015 at 12:23 pm User: Work
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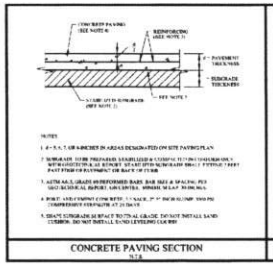

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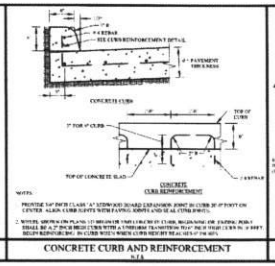

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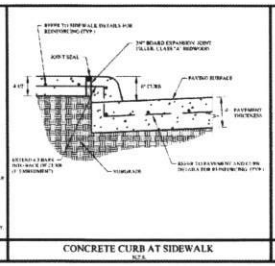

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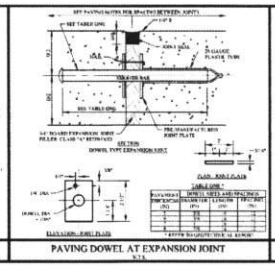

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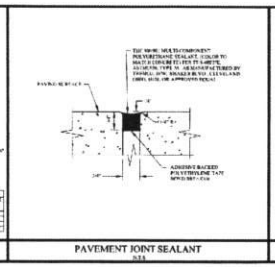

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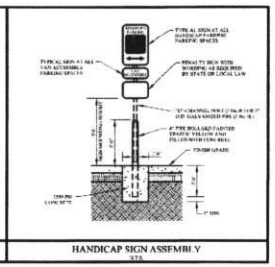

HANDICAP SIGN ASSEMBLY
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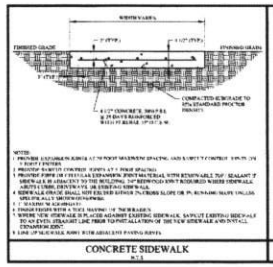

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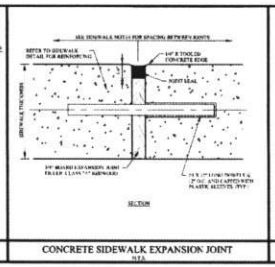

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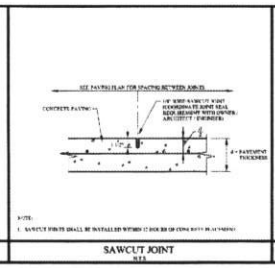

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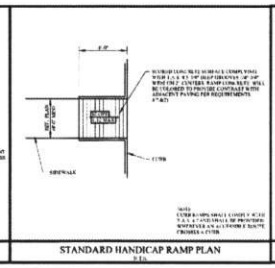

STANDARD HANDICAP RAMP PLAN
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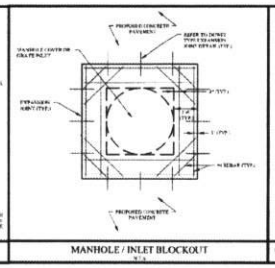

MANHOLE / INLET BLOCKOUT
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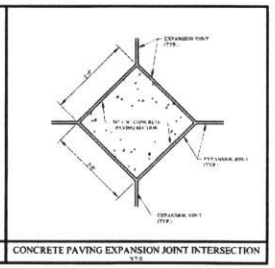

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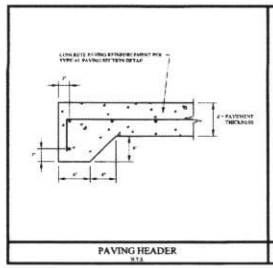

PAVING HEADER
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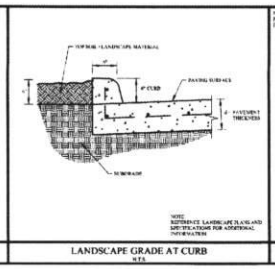

LANDSCAPE GRADE AT CURB
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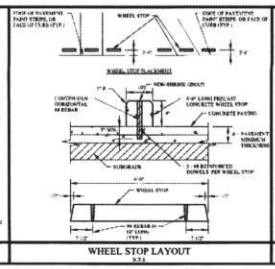

WHEEL STOP LAYOUT
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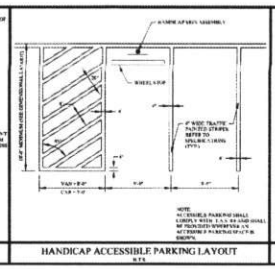

HANDICAP ACCESSIBLE PARKING LAYOUT
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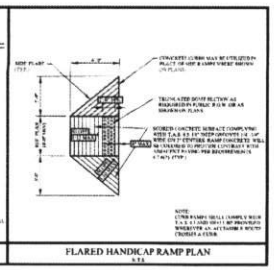

FLARED HANDICAP RAMP PLAN
N.T.S.

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
1708 AVENUE B, SUITE B
KATY, TEXAS 77493
O: 832.437.7275

APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/31/15

N PLAN

TRUE

Revisions / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

W. JOEL SUMMER
83986
LICENSED
PROFESSIONAL ENGINEER
12-18-15

Huckabee

PAVING DETAILS

Job No. 791-01-01
Drawn By: JW / DLV
Date: 12/24/2015
Sheet No. C702
Sheet of

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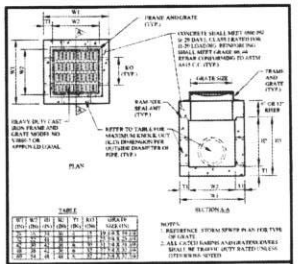

CATCH BASIN IN PAVEMENT - PRECAST
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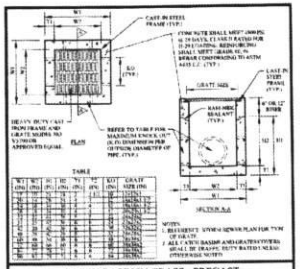

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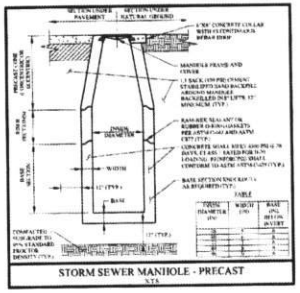

STORM SEWER MANHOLE - PRECAST
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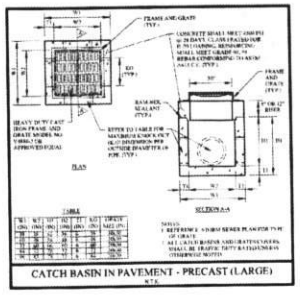

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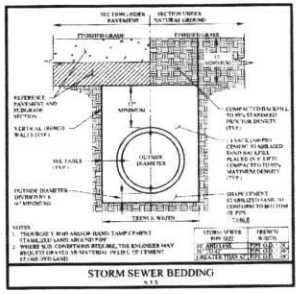

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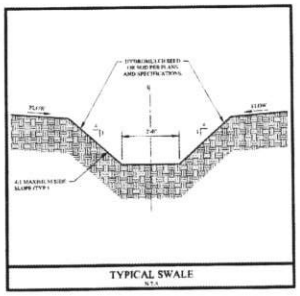

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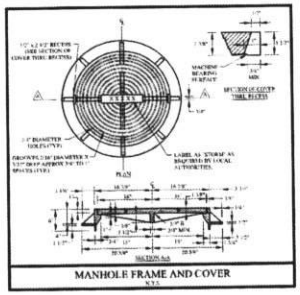

MANHOLE FRAME AND COVER
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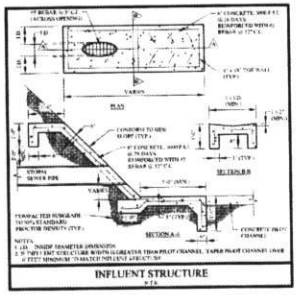

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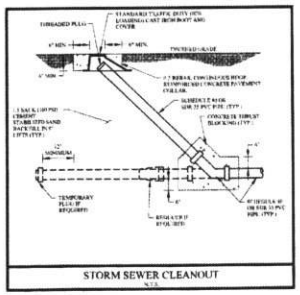

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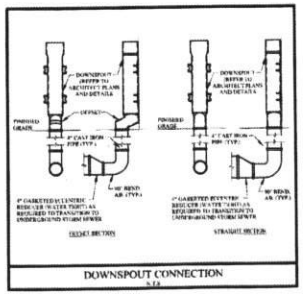

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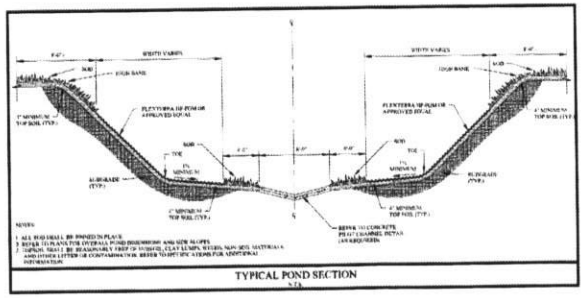

TYPICAL POND SECTION
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T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC

APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

Revision / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

W. JOEL SEYBERT
83999
LICENSED
PROFESSIONAL ENGINEER
12-18-15

Huckabee

STORM SEWER DETAILS

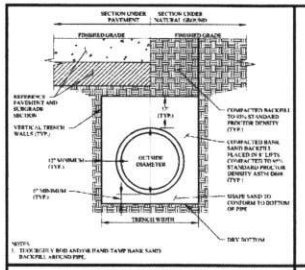
Job No. 1705.01.01

Sheet No. C703

Drawn By: JR / DLT

Date: 09/04/15

Sheet of



WATER LINE BEDDING
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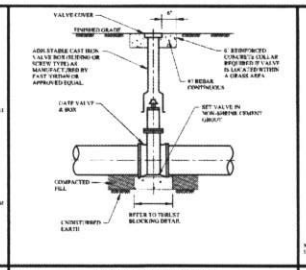

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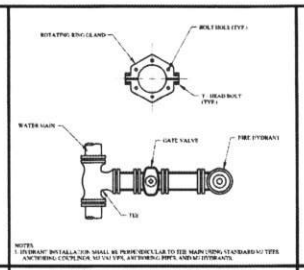

MECHANICAL JOINTS FOR WATER LINES
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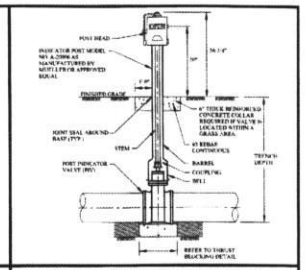

POST INDICATOR VALVE - FREE STANDING
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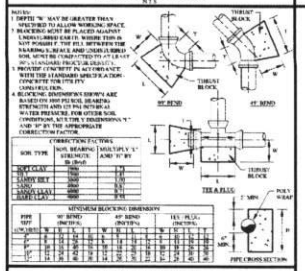

THRUST BLOCKING
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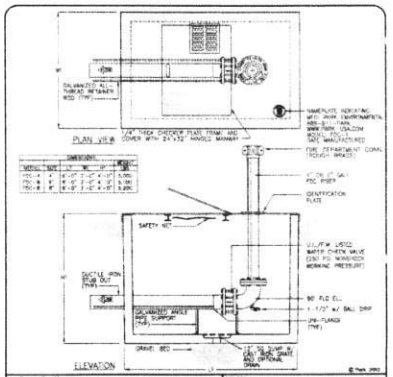

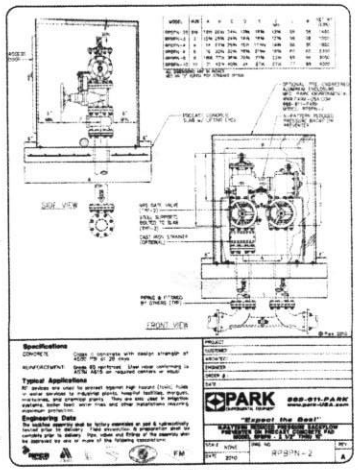

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

Huckabee

WATER LINE DETAILS

Sheet No. C704

T.B.P.E. FIRM #15114
S&G ENGINEERING CONSULTANTS, LLC

APPROVED: DEVELOPMENT COORDINATOR
DATE: 12/21/15

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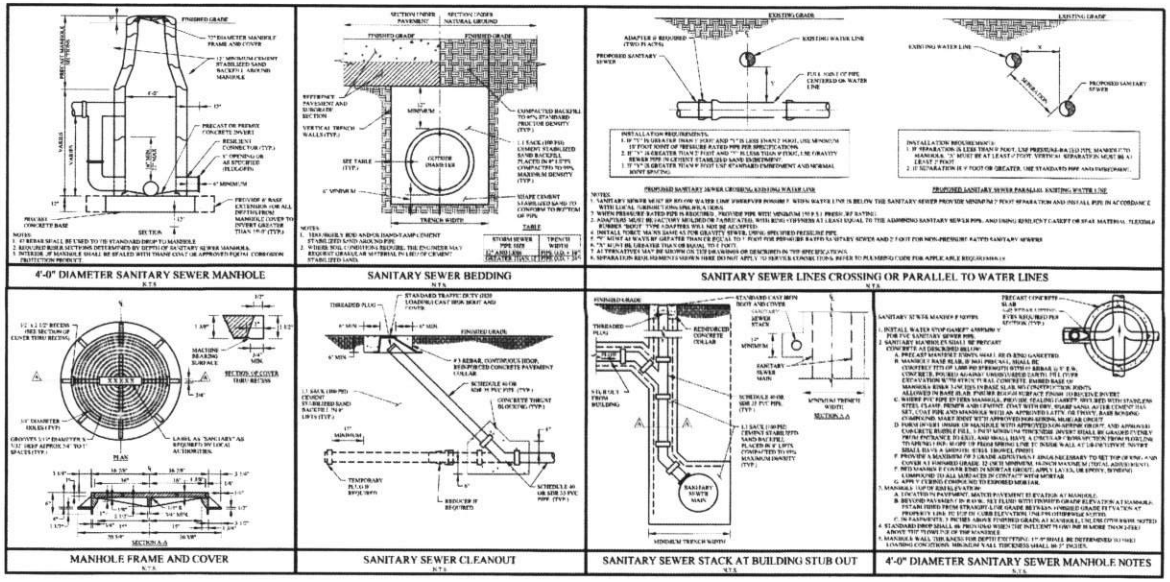

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC

APPROVED: DEPARTMENT COORDINATOR

DATE: 12/21/15

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Revisions / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYMOR
92599
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

SANITARY SEWER DETAILS

Job No. 1510-01-01

Sheet No. C705

Drawn By: JH / GLY

Date: 08/24/2015

Sheet of

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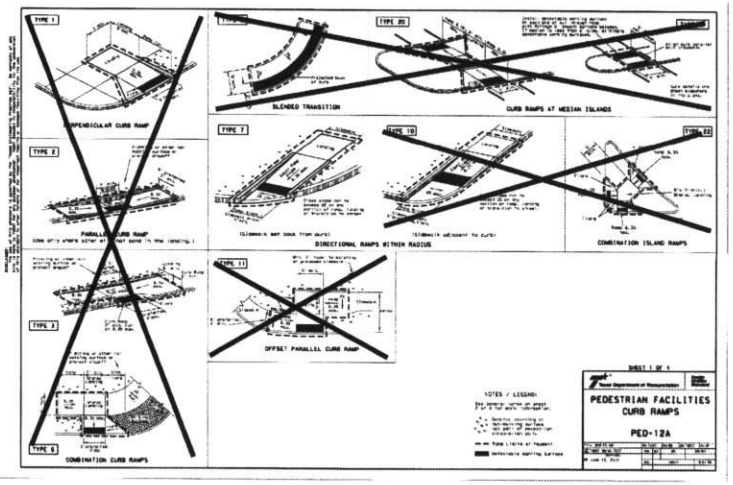

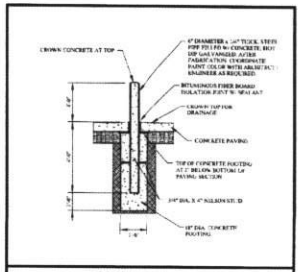

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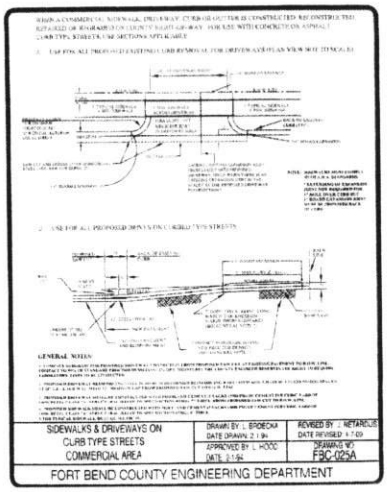
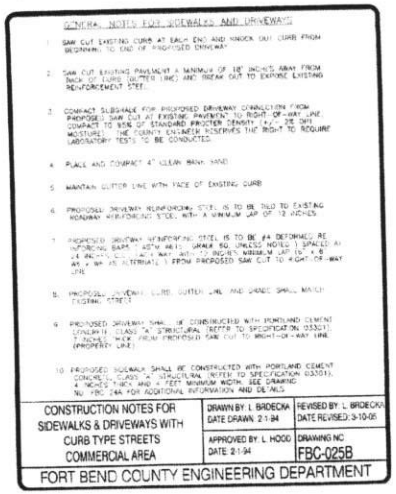


SIDEWALKS & DRIVEWAYS ON CURB TYPE STREETS COMMERCIAL AREA

DRAWN BY: L. BRIDECKA DATE DRAWN: 2-1-94 | REVISED BY: L. METAFUJE DATE REVISED: 1-7-09

APPROVED BY: L. HOOD DATE: 2-1-94 | DRAWING NO. FBC-025A

FORT BEND COUNTY ENGINEERING DEPARTMENT



GENERAL NOTES FOR SIDEWALKS AND DRIVEWAYS

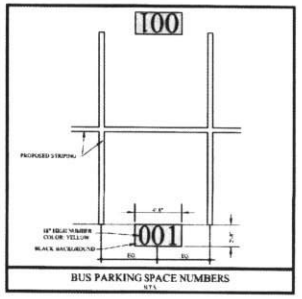
1. SAW CUT EXISTING CURB AT EACH END AND KNOCK OUT CURB FROM BEGINNING TO END OF PROPOSED DRIVEWAY.
2. SAW CUT EXISTING PAVEMENT A MINIMUM OF 18" INCHES AWAY FROM BACK OF CURB (GUTTER LINE) AND BREAK OUT TO EXPOSE EXISTING REINFORCEMENT STEEL.
3. COMPACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PAVEMENT TO RIGHT-OF-WAY LINE. SAW CUT AT EXISTING PAVEMENT TO RIGHT-OF-WAY LINE. COMPACT TO 95% OF STANDARD PROCTOR DENSITY (+/- 2% OPT. MOISTURE). THE COUNTY ENGINEER RESERVES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED.
4. PLACE AND COMPACT 4" CLEAN BANK SAND.
5. MAINTAIN GUTTER LINE WITH FACE OF EXISTING CURB.
6. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE TIED TO EXISTING ROADWAY REINFORCING STEEL WITH A MINIMUM LAP OF 12 INCHES.
7. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 DEFORMED RE-INFORCING BARS (60TH GRADE) UNLESS NOTED. SPACED AT 24 INCHES (EACH WAY) AND 30 INCHES MINIMUM LAP (6" x 6" W1.4 x W1.4) ALTERNATE FROM PROPOSED SAW CUT TO RIGHT-OF-WAY LINE.
8. PROPOSED DRIVEWAY CURB, GUTTER LINE AND GRADE SHALL MATCH EXISTING STREET.
9. PROPOSED DRIVEWAY SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE (CLASS "A" STRUCTURAL) (REFER TO SPECIFICATION 03301). 4 INCHES THICK AND 4 FEET MINIMUM WIDTH. SEE DRAWING NO. FBC-24A FOR ADDITIONAL INFORMATION AND DETAILS.
10. PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE (CLASS "A" STRUCTURAL) (REFER TO SPECIFICATION 03301). 4 INCHES THICK AND 4 FEET MINIMUM WIDTH. SEE DRAWING NO. FBC-24A FOR ADDITIONAL INFORMATION AND DETAILS.

CONSTRUCTION NOTES FOR SIDEWALKS & DRIVEWAYS WITH CURB TYPE STREETS COMMERCIAL AREA

DRAWN BY: L. BRIDECKA DATE DRAWN: 2-1-94 | REVISED BY: L. BRIDECKA DATE REVISED: 3-10-05

APPROVED BY: L. HOOD DATE: 2-1-94 | DRAWING NO. FBC-025B

FORT BEND COUNTY ENGINEERING DEPARTMENT



BUS PARKING SPACE NUMBERS

T.B.P.E. FIRM #15134

S&G ENGINEERING CONSULTANTS, LLC

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/2/15

PLAN TRUE

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Revision / Date

Project: SOUTH TRANSPORTATION CENTER EXPANSION FOR KATY ISD 3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS W. JOEL SEYBERT 83999 LICENSED PROFESSIONAL ENGINEER 12-16-15

Huckabee

MISCELLANEOUS DETAILS

Job No. 15-0185 | Sheet No. C706

Drawn By: JR / GLY

Date: 12/2/2015

Sheet of

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GENERAL CONSTRUCTION NOTES:

1. LOCATIONS OF EXISTING UTILITIES FOR WATER LINE, STORM SEWERS, SANITARY SEWERS, GAS LINES AND UNDERGROUND TELEPHONE CABLE AND POWER LINES ARE APPROXIMATE AND ARE BASED UPON INFORMATION OBTAINED FROM THE RECORD DRAWINGS OF THE UTILITY COMPANIES, AND TOPOGRAPHIC SURVEYS.
2. CONTRACTOR SHALL VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION AND SHALL REPORT DISCREPANCIES TO THE OWNER IMMEDIATELY.
3. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES, PROPERTY AND UNDERGROUND UTILITIES, AND SHALL REPAIR ANY DAMAGE TO THE SATISFACTION OF THE FACILITY OR PROPERTY OWNER AT NO ADDITIONAL COST.
4. CONTRACTOR SHALL NOTIFY THE "DIGSTAR" TEXAS 811 UTILITY LOCATING SERVICE (TEL#FOR NO. 713-223-4567 OR 811) 48 HOURS BEFORE STARTING ANY CONSTRUCTION, AT PHONE
5. ALL MATERIALS FOR PROPOSED CONSTRUCTION OR REPAIR OF EXISTING FACILITIES SHALL BE NEW PRODUCTS DIRECT FROM THE FACTORY AND FREE FROM DEFECTS.
6. PROVIDE ALL TREES, PLUGS, SHORES, GATES, BARRICADES, ALARM DEVICES, THE PUMPS AND COMPRESSORS AS NECESSARY TO MAKE WORK NO SEPARATE PAY
7. WASTE MATERIALS INCLUDING PAVEMENT REMOVED BUILDING CONSTRUCTION, WASTE PIPING AND BUILDING CONSTRUCTION DEBRIS AND EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR AT NO SEPARATE PAY UNLESS OTHERWISE NOTED
8. PROVIDE TEMPORARY DRAINAGE FACILITIES TO DIRECT IS REACH WATER AWAY FROM TRENCHES AND TO PREVENT WATER FROM PONDING ON SITE. DO NOT BLOCK DRAINAGE FROM DIRECT EXCESS DRAINAGE ON TO ADJACENT PROPERTY. ALL WORK SHALL BE IN COMPLIANCE WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) REQUIREMENTS
9. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING
10. THE CONTRACTOR, ON BEHALF OF THE OWNER, SHALL OBTAIN ALL PERMITS REQUIRED BY GOVERNMENTAL AGENCIES PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL PROVIDE OWNER, ARCHITECT, AND ENGINEER COPIES OF PERMITS.
11. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY LOCAL GOVERNING AUTHORITIES FOR FLOOD PLAIN MANAGEMENT PRIOR TO STARTING CONSTRUCTION
12. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS, AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF AND AT NO EXTRA COST TO THE OWNER
13. EXISTING PAVEMENTS, CURBS, SIDEWALKS, VEGETATION, AND DRIVEWAYS WITHIN PUBLIC RIGHTS-OF-WAY AND EASEMENTS WHICH HAVE BEEN DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE STANDARDS OF THE APPROPRIATE REGULATORY AGENCY
14. IF THE CONSTRUCTION DOES NOT BEGIN WITHIN ONE YEAR AFTER THE PLANS HAVE BEEN APPROVED BY AND BONDED, NEW DRAINAGE MUST BE OBTAINED AND LETTERS OF AVAILABILITY MUST BE OBTAINED IF THE AT WASTOR TO THE CONTRACTOR, IN ARE SHALL BE RESPONSIBLE FOR PROVIDING UPDATED INFORMATION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIAL AND EQUIPMENT IN A SAFE AND NORMAL MANNER TO PREVENT PROPERTY DAMAGE AND AFTER WORKING HOURS UNTIL PROJECT COMPLETION. THERE SHALL BE NO PAYMENT MADE TO CONTRACTOR FOR STORED MATERIAL
16. ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
17. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS, AND TREES TO REMAIN IN WORK AREA. SEE LANDSCAPE PLANS FOR PROTECTION OF EXISTING TREES DURING CONSTRUCTION.
18. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, AND PERSONNEL IN CHARGE OF PUBLIC AND PRIVATE UTILITIES AFFECTED BY SUBSEQUENT OPERATIONS PRIOR TO STARTING WORK, INCLUDING BUT NOT LIMITED TO PIPELINE COMPANIES, METER TECHNICIAN, METER OPERATOR, DRY UTILITY COMPANIES, OR CITY ENGINEER.
19. CONTRACTOR SHALL INTERMITTENTLY SEED ALL DISTURBED AREAS UNLESS OTHERWISE SHOWN ON ARCHITECTS AND/OR LANDSCAPE ARCHITECTS PLANS. CONTRACTOR IS RESPONSIBLE FOR INITIAL BIDDING A STAND OF GRASS (90% COVERAGE) BEFORE FINAL ACCEPTANCE
20. GUIDELINES SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAG MEN, SIGNING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION BOTH DAY AND NIGHT.
21. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OPEN TO PUBLIC ACCESS
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING OF ALL MATERIALS. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED PRACTICES AND SHALL BE AT ALL TIMES PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE SUCH MATERIAL AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. THE DEFECTIVE MATERIAL MUST BE REPLACED WITH SOUND MATERIAL.
23. CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN AREAS DESIGNATED AS WETLANDS UNTIL ALL NECESSARY PERMITS ARE APPROVED.
24. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL ADHERE TO THE STANDARDS OF THE LOCAL GOVERNING AUTHORITIES.
25. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SECURE AND SAFE PROJECT 24 HOURS A DAY, 7 DAYS A WEEK
26. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING CONSTRUCTION FENCING TO PROTECT THE ENTIRE SITE.
27. THE CONTRACTOR SHALL CLEAN MUD, DIRT, AND DEBRIS FROM ADJACENT STREETS OR PROPERTIES RESULTING FROM THE CONSTRUCTION ACTIVITIES ON A DAILY BASIS.
28. CONTRACTOR SHALL PREPARE A SET OF "AS-BUILT" DRAWINGS SHOWING ANY FIELD CHANGES MADE TO THE APPROVED ENGINEERING PLANS AND SUBMIT TO THE ENGINEER AND/OR LOCAL GOVERNING AUTHORITY AS APPLICABLE
29. IF ANY DISCREPANCIES EXIST BETWEEN THESE PLANS, SPECIFICATIONS, OR DETAILS, THE MOST STRINGENT SHALL APPLY
30. CIVIL PLANS, NOTES, DETAILS, AND SPECIFICATIONS ARE NOT FOR AREAS UNDER PROPOSED BUILDINGS. STRUCTURAL OR STRUCTURAL SLAB REFERENCE ARCHITECTURAL, STRUCTURAL AND M.E.P. DRAWINGS FOR INFORMATION CONCERNING THESE AREAS
31. CONTRACTOR SHALL RESEARCH WORKING HOUR RESTRICTIONS AS IMPOSED BY THE LOCAL GOVERNING ENTITIES AND ADHERE BY SAID HOURS.

PAVING CONSTRUCTION NOTES

1. ALL DRIVE WIDTHS, CURB RADII, AND CURVE ALIGNMENT SHOWN INDICATE FACE OF CURB. T.C. INDICATES TOP OF CURB ELEVATION.
2. ALL CONCRETE PAVEMENT SHALL BE 5.5 BACK POR ILAND CAMENT CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS WITH REINFORCING STEEL CONFORMING TO ASTM A-615, GRADE 60, PROVIDE MINIMUM 30 BAR DIAMETER LAP. SEE GEOTECHNICAL REPORT FOR ADDITIONAL BAR SPACING
3. CONNECT TO EXISTING PAVEMENT USING HORIZONTAL DOWEL EXPANSION JOINTS, WHERE SHOWN ON PLANS. SAWCUT EXISTING PAVEMENT TO FULL PAVEMENT DEPTH. HORIZONTAL DOWELS SHALL BE NO. 3 BARS, 18 INCHES LONG, DRILLED AND EMBEDDED 9 INCHES INTO THE CENTER OF THE EXISTING SLAB WITH EPOXY. DOWEL SPACING SHALL BE 12 INCHES CENTER TO CENTER (C.C.) UNLESS OTHERWISE NOTED.
4. DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING AGENCY REQUIREMENTS
5. SUBGRADE SHALL BE PREPARED IN CONFORMANCY WITH GEOTECHNICAL SOILS REPORT.
6. PEDESTRIAN SIDEWALKS SHALL BE 5 INCH P.S.I. CONCRETE, 4 (2-INCH) TRUCK MESHING WITH NO. 3 REBARS ON 18 INCH CENTERS. PUBLIC SIDEWALKS SHALL BE IN CONFORMANCE WITH THE LOCAL GOVERNING AGENCY
7. EXPANSION JOINTS SHALL BE INSTALLED AT A MAXIMUM 60 FOOT SPACING INTERVAL. SAWCUT JOINTS SHALL BE PLACED IN BETWEEN EXPANSION JOINTS AT A MAXIMUM 15 FOOT SPACING. SAWCUT JOINTS MUST BE CUT WITHIN 12 HOURS OF CONCRETE PLACEMENT
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAG MEN, SIGNING, STRIPING, AND WARNING DEVICES, ETC. DURING CONSTRUCTION. MONDAY AND NIGHT NO SEPARATE PAY
9. MAXIMUM CROSS SLOPES FOR SIDEWALKS AND A.D.A. ACCESS ROUTES SHALL NOT EXCEED 2%. RAMP SLOPES SHALL NOT EXCEED 1 INCH PER FOOT (8.33%). MAXIMUM SLOPES FOR HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.

STORM SEWER SYSTEM CONSTRUCTION NOTES

1. ON SITE STORM SEWERS 12 INCH DIAMETER AND LARGER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE PIPE (HDPE) ASSTM D-3350, TYPE S, AS NOTE SUBE FOR EQUIPPED, OR APPROVED EQUAL UNLESS OTHERWISE SHOWN ON PLANS. PRODUCT MUST HAVE GASKETED JOINTS
2. ON SITE STORM SEWERS 10 INCH DIAMETER AND LESS SHALL BE PVC (POLY VINYL CHLORIDE) PIPE MEETING ASTM SPECIFICATIONS ASTM D-3034 AND HAVING A SDR OF 26, UNLESS OTHERWISE SHOWN ON PLANS
3. ANY CONCRETE PIPE USED ON THIS PROJECT SHALL BE REINFORCED CONCRETE MEETING ASTM C-76 CLASS III, AND HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS. CONCRETE PIPE IS TO NOT BE USED WITHOUT REQUIRED IN PUBLIC RIGHT-OF-WAY. AT TIES TO PUBLIC STORM SEWER SYSTEMS OR AS SPECIFICALLY NOTED ON DRAWINGS. BEDDING, BACKFILLING, AND INSTALLATION OF PIPE AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CIVIL DETAIL SHEETS
4. THE CONTRACTOR SHALL USE PRECAST STORM SEWER MANHOLES AND INLETS. INLET BOTTOMS SHALL BE MOLDED WITH CONTROLLED FLOWLINES TO ENSURE POSITIVE DRAINAGE FROM INLET TO STORM SEWER AND NO STANDING WATER IN THE ST. INLETS MANHOLES AND OR INLETS MAY BE USED AS APPROVED BY THE ENGINEER WHEN SETTING STRUCTURES ON EXISTING UTILITY LINES WHICH THE CONTRACTOR MUST MODIFY WHEN NEEDED AND TO COORDINATE LOCATION WITH OWNER
5. ALL INLETS, MANHOLES, CLEANOUTS, AND HEADWALLS SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND. CEMENT STABILIZED SAND FILL SHALL BE AT LEAST 12 INCHES OR BOTTOM OF STRUCTURE AND 12 INCHES ABOVE AND OUTSIDE OF STRUCTURE.
6. NO CORBEL LONGER THAN 3 SINGLE 30 INCH DIAMETER PIPE LENGTH THAN MUST PIPE 24 INCH DIAMETER OR SMALLER
7. CONTRACTOR SHALL CUT OFF PIPE FLUSH WITH INSIDE FACE OF INLETS AND MANHOLES. PENETRATING SHALL BE GROUTED INSIDE AND OUT PRIOR TO PLACING BACKFILL AROUND OUTSIDE OF STRUCTURE
8. CONCRETE FOR DRAINAGE STRUCTURES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
9. CULVERT CROSSINGS LOCATED WITHIN PUBLIC OR RIGHT-OF-WAY SHALL HAVE MINIMUM 4:1 SLOPED ENDS KNOWN AS SAFETY END TREATMENTS (SET). THE CULVERT SHALL HAVE SUFFICIENT LENGTH TO ALLOW THE 4:1 SLOPE TO BE ACHIEVED FROM THE EDGE OF PAVEMENT TO THE FLOWLINE AT THE END OF THE SET.
10. CULVERTS LARGER THAN A SINGLE 30 INCH DIAMETER (OR LARGER THAN MULTIPLE 24 INCH DIAMETER CULVERTS) SHALL HAVE THE SAFETY PIPE BE SHORT.
11. CONTRACTOR SHALL FLUSH AND CLEAN ALL STORM SEWER LINES AND STRUCTURES PRIOR TO ACCEPTANCE.
12. UTILITIES ARE TO BE TAKEN TO WITHIN FIVE FEET OF BUILDING. SEE PLUMBING SHEETS FOR CONTINUATION OF SEWER CONNECTIONS INTO BUILDING.
13. TIE INS TO EXISTING MANHOLES SHALL BE MADE SUCH THAT THE FINAL CONDITIONS UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
14. THE CONTRACTOR IS TO INSTALL WATER-TIGHT ADAPTORS OR A TEE COMPATIBLE WITH THE MATERIALS BEING JOINED AT THE POINT OF CONNECTION OF THE SERVICE LINE TO THE BUILDING PLUMBING. NO CEMENT, GROUT, OR PRIMED OR PLASTIC ARE PERMITTED.
15. THE CONTRACTOR IS TO INSTALL SAN CLEANOUT BY USE OF A 45 DEGREE OR A DIRECTION OPPOSITE TO THE FLOW OF THE WASTE AND EXCEPT IN THE CASE OF A "NEW" BRANCH AND END-OF-THE LINE CLEANOUTS. CLEANOUTS WILL BE INSTALLED VERTICALLY. ALL AREA THE FLOW LINE OF THE PIPE CLEANOUTS WILL BE MADE WITH AN AIR TIGHT MECHANICAL PLUG.
16. ALL AREA INLETS, GRATE INLETS, AND STORM SEWER MANHOLE TOPS SHALL HAVE RECTANGULAR OPENINGS. SQUARE OPENINGS ARE NOT ALLOWED. ANY OPEN GRATE STRUCTURES LOCATED IN A BIOSWALE, PLAZA AREA, OR WITHIN AN ARA BOUTS SHALL HAVE ADA COMPLIANT OPENINGS.

SWPP CONSTRUCTION NOTES

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED SILT FENCE BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPE ALL STORM WATER POLLUTION PREVENTION (SWPP) PLAN TO KEEP SILT AND/OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES AND ULTIMATELY POLLUTING THE RECEIVING STORM
2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING COLLECTED ON THE EXISTING PAVEMENT. ANY GOOD EXCAVATED MATERIAL WHICH FALLS ON PAVEMENT OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.
3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY DIRT OR MUD. TO KEEP ROCK TRACKED FROM THE EXCAVATED AREA.
4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT. ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES
5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS WITHIN 24 HOURS ON THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER
   - DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED
   - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
   - STRUCTURAL CONTROL MEASURES
   - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE
6. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING INTERSECTION OF CURB AND STREET FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION OR BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY REPEAT OR SODDING. SUPPLIES OR STOCKPILE SHALL BE RUN ALSO BY BLACK SODDING

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
1796 AVENUE B, SUITE B
KATY, TEXAS 77493
O: 832.437.7377

ALTERNATE #3

APPROVED: _____ DEVELOPMENT COORDINATOR

DATE: 12/21/15

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Revision / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
92999
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

FALCON LANDING
GENERAL NOTES

Job No. 1721.01.01	Sheet No. C801
Drawn By: JW / DLT	
Date: 09/24/2015	
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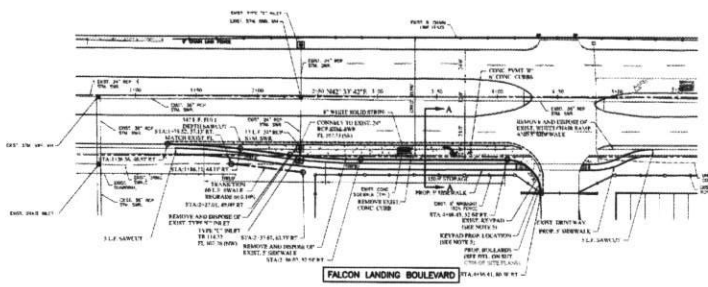

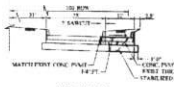

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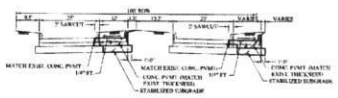

SECTION B-B
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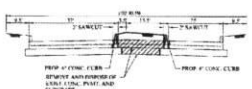

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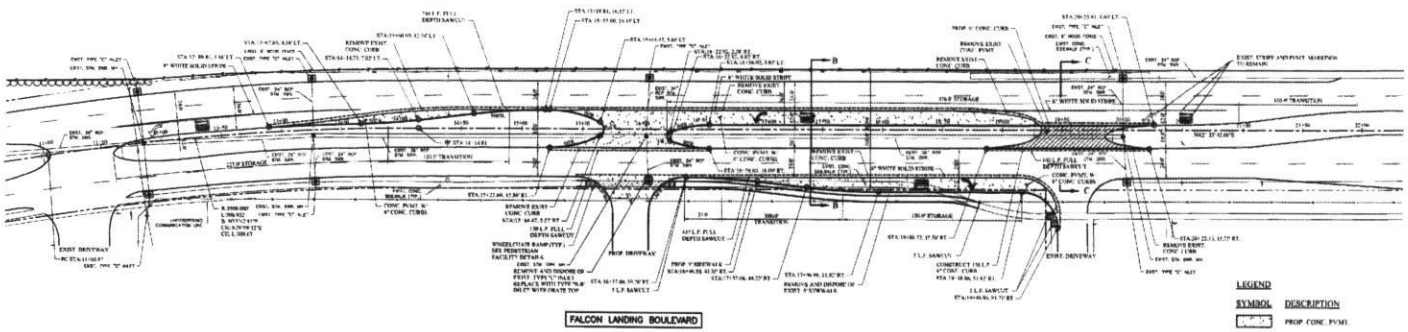

BENCHMARK:

RM3 - A DISK SET IN EAST END OF SOUTH HEADWALL, APPROXIMATELY 0.45 MILE WEST OF MILEPOST No. 28 AND APPROXIMATELY 17 FEET SOUTH OF CENTERLINE OF F.M. 1463 (FORD RD Q769).
ELEV.=408.52' (NGVD 29, 1987 ADJ.)

TEMPORARY BENCHMARKS:

TBM "E" - COTTON SPINDLE WITH BRASS SINKER STAMPED "WEST BELT PERSIMMONS" IN POWER POLE LOCATED ON THE NORTHWESTERLY R.O.W. LINE OF PROPOSED FALCON LANDING, NORTHWARD 450' NORTH OF THE SOUTHEAST CORNER OF THE SUBJECT TRACT.
ELEV. = 116.07

TBM "F" - NAIL CUT AT END OF MEDIAN LOCATED ON THE NORTHWESTERLY MEDIAN OF SLIP LANE FOR THE NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. NORTH TRANSPORTATION CENTER.
ELEVATION = 116.20

TBM "G" - BOX CUT ON TOP OF "X" INLET AT CENTERLINE IN INLET LOCATION ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "X" INLET NORTHEAST OF THE MAIN NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. NORTH TRANSPORTATION CENTER.
ELEVATION = 117.17

TBM "H" - BOX CUT ON TOP OF "X" INLET AT CENTERLINE OF INLET LOCATION ON THE SOUTHERLY SIDE OF FALCON LANDING BOULEVARD ON THE FIRST "X" INLET NORTHEAST OF THE MAIN NORTHWESTERLY DRIVEWAY INTO THE KATY I.S.D. BUSHEA MIDDLE SCHOOL TEMPORARY SCHOOL.
ELEVATION = 117.49

FLOODPLAIN NOTE:

AC CORDING TO FEMA MAP NUMBER 48201C0195 (COMMUNITY PANEL NO. 480288) FEMA MAP REVISED 26TH APRIL 2, 2001, THE SUBJECT PROPERTY LIE S WITHIN THE AREA DESIGNATED AS ZONE "X" UNSHADED. AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AND ZONE AE BASE FLOOD ELEVATION NOT ESTABLISHED.

THIS STATEMENT SHALL BE BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE ABOVE REFERENCED MAP. THIS INFORMATION IS TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO DENOTE SPECIFIC FLOODING CONDITIONS.

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LEGEND

SYMBOL	DESCRIPTION
	PROP. CONC. PVMT
	REMOVE AND DISPOSE OF EXIST. CONC. PVMT

NOTES:
1. ALL DIMENSIONS IN PLAN VIEW ARE TO FACE OF CURB.
2. CONTRACTOR SHALL REMOVE AND RELOCATE EXIST. SIDEWALK TO EXIST. CONDITION OR BETTER.
3. CONTRACTOR SHALL REGRADE TO DRAIN EXIST. DRNG. SWALE TO EXIST. CONDITION OR BETTER.
4. CONTRACTOR SHALL RESTORE ALL EXIST. LANDSCAPING AND IRRIGATION LINES TO EXIST. CONDITION OR BETTER.
5. RELOCATE EXISTING FIRE DEPARTMENT KEYPAD AND ELECTRICAL WIRES OUT OF PROPOSED DRIVEWAY. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT IN FIELD. PROVIDE TWO BOLLARDS TO PROTECT KEYPAD.

T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC
2706 AVENUE B, SUITE B
KATY, TEXAS 77493
O: 832-437-7577

ALTERNATE #3

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/2/15

PLAN TRUE

Date

Revision /

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

STATE OF TEXAS
W. JOEL SEIDEL
62993
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

FALCON LANDING BOULEVARD IMPROVEMENTS

Job No. 1501.01.01
Drawn By: JR / GLY
Date: 06/24/2015
Sheet No. C802
Sheet of

Plot Contact: Dec 16, 2015 at 3:00:49 pm (Last Save)
Location: X:\Project Files\Huckabee\15-001 (SB Katy ISD) South Innes Bldg\CADD\Civil\Public\C802 PVU.dwg

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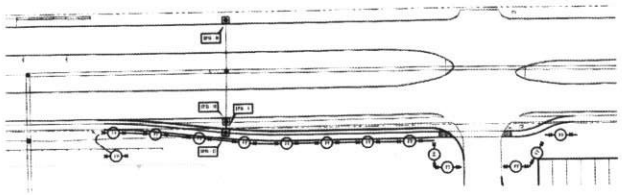

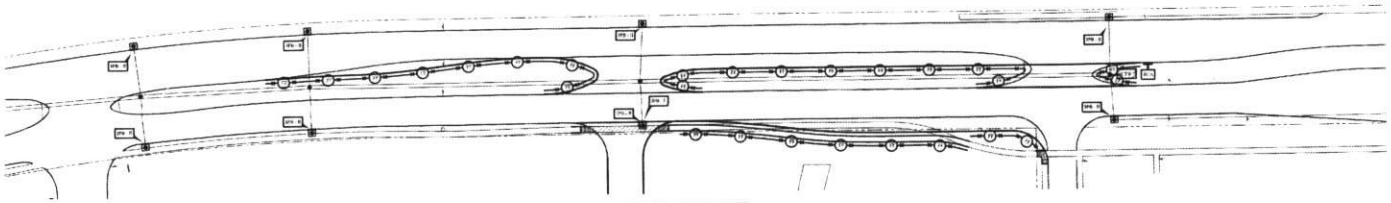

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LEGEND

SYMBOL	DESCRIPTION
SPA 1	PROPOSED INLET PROTECTION BARRIER FOR STAGE 1 INLETS
SPA 2	PROPOSED INLET PROTECTION BARRIER FOR STAGE 2 INLETS
	PROPOSED STABILIZED CONSTRUCTION ACCESS (COORDINATE LOCATION WITH ARCHITECT / OWNER)
	PROPOSED CONCRETE TRUCK WASH OUT AREA (COORDINATE LOCATION WITH ARCHITECT / OWNER)
	PROPOSED TEMPORARY FENCE
	EXIST. TYPE "C" INLET
	PROP. TYPE "B-B" INLET
	PROP. TYPE "C" INLET

T.B.P.E. FIRM #15114

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DATE 12/21/15

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Revisions / Date

Project: SOUTH TRANSPORTATION CENTER EXPANSION FOR KATY ISD 3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS W. JOEL SEYMERT 92999 LICENSED PROFESSIONAL ENGINEER 12-15-15

Huckabee

FALCON LANDING STORM WATER POLLUTION PREVENTION PLAN

Job No. 1762-7141 | Sheet No. C803

Draw By: JB / DLT

Date: 09/21/2015

Sheet of

Plot Contents: Dec 16, 2015 at 3:10:29 pm User: ltrott
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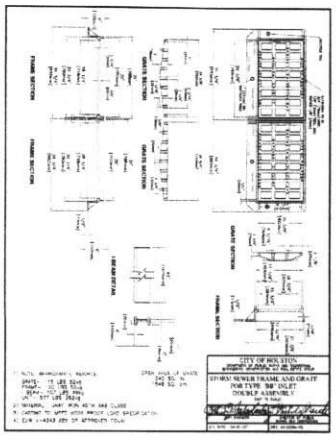

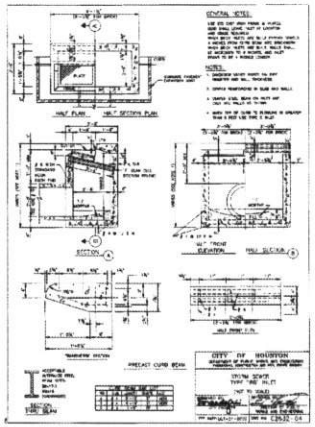

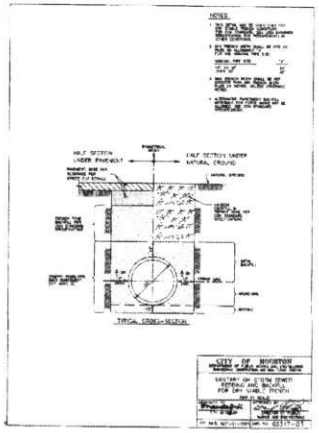

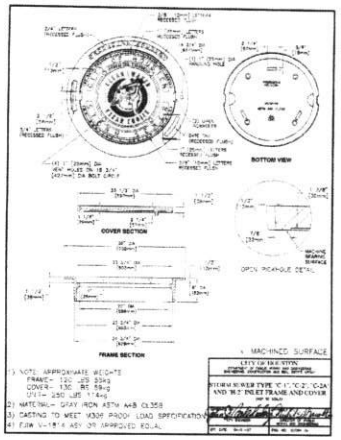

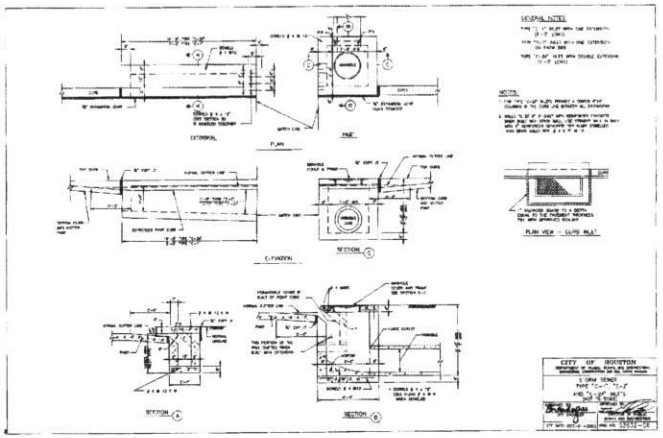

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Revision /	Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
92998
LICENSED
PROFESSIONAL ENGINEER
12-16-15

Huckabee

FALCON LANDING
STORM SEWER DETAILS

Job No. 112-27-01	Sheet No. C804
Drawn By: JM / GR	
Date: 09/24/2015	

Sheet of

T.B.P.E. FIRM #15114

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1796 AVENUE D, SUITE B
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DATE: 12/21/15

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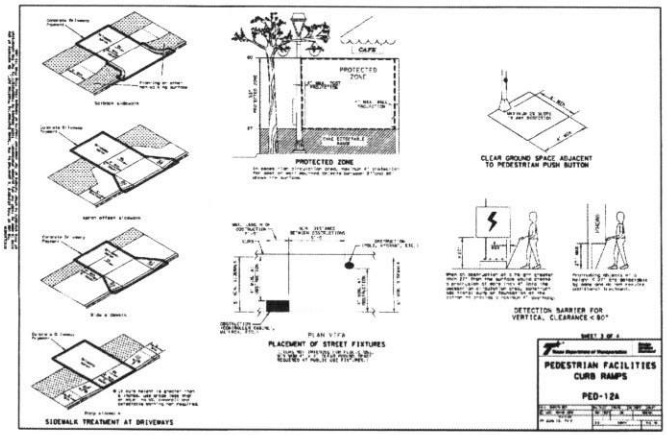

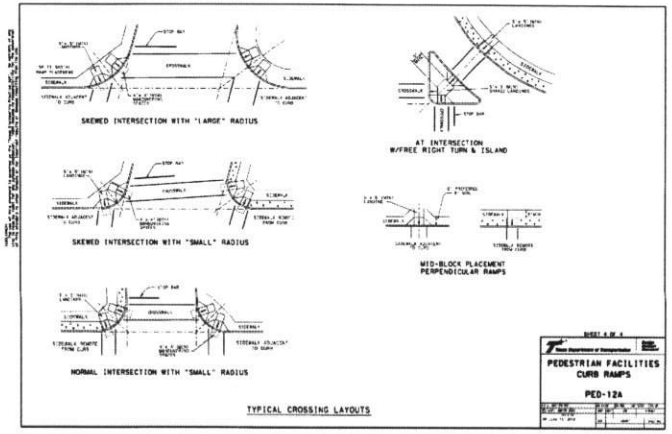

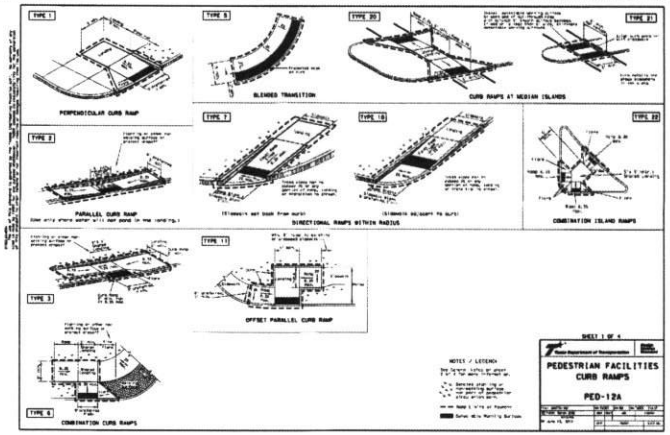

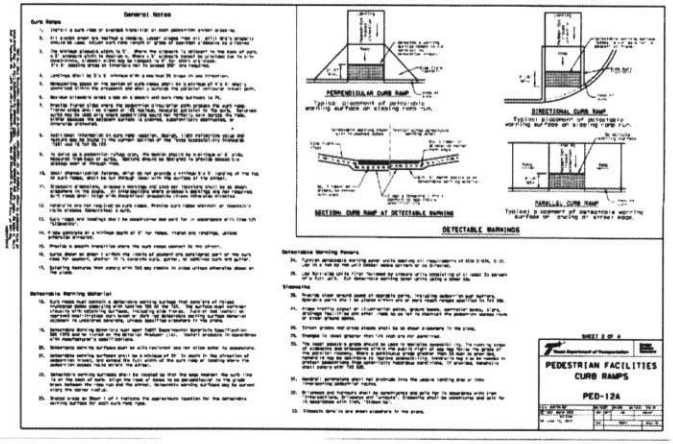

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ALTERNATE #3

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Project: SOUTH TRANSPORTATION CENTER EXPANSION FOR KATY ISD 3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS W. JOEL SEYBERT 93995 LICENSED PROFESSIONAL ENGINEER 12-16-15

Huckabee

FALCON LANDING PEDESTRIAN FACILITIES

Job No. 117-0341 | Sheet No. C805

Drawn By: RT/DLT

Date: 09/24/2015

Sheet of

Plot Created: Dec 16, 2015 at 1:05:54 pm User: tlwk
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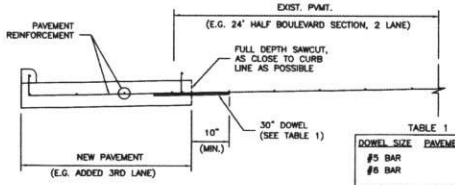
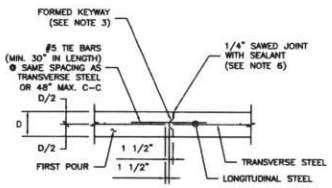


TYPICAL CONCRETE CURB REINFORCING DETAILS
SCALE: 1" = 1'-0"

TABLE 1

DOWEL SIZE	PAVEMENT DEPTH
#5 BAR	7"
#6 BAR	≥9"

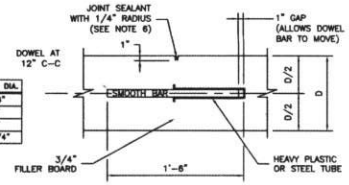
DOWEL SHALL BE DRILLED INTO EXISTING PAVEMENT A MINIMUM OF 10" AND EPOXIED (SEE ITEM 361.3)



LONGITUDINAL CONSTRUCTION JOINT
SCALE: 1" = 1'-6"

DOWELS

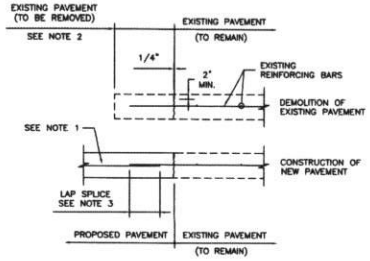
PAVEMENT THICKNESS (D)	DOWEL DIA.
6"	3/4"
7"	1"
8"	1"
9" & 10"	1 1/4"



DOWEL TYPE EXPANSION JOINT
SCALE: 1" = 3"

NOTES FOR DOWEL EXPANSION JOINT:

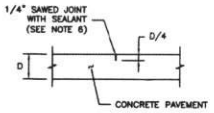
1. EXPANSION JOINT SHALL BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED AT A MAXIMUM DISTANCE OF 80 FEET.
2. CENTER DOWEL HORIZONTALLY ON JOINT.
3. EXPANSION JOINT BARS SHALL BE HELD PARALLEL TO THE FINISHED CONCRETE SURFACE.



CONCRETE TO CONCRETE STANDARD PAVEMENT TIE-IN
SCALE: 1" = 1'-6"

NOTES FOR STANDARD PAVEMENT TIE-IN:

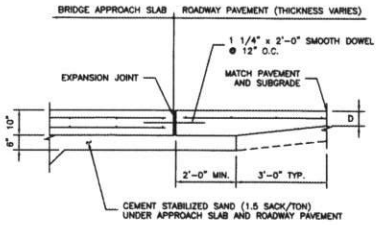
1. REINFORCING CENTERED IN PROPOSED PAVEMENT, 3" CLEAR AT EDGES.
2. SAWCUT 2" DEEP MINIMUM AND REMOVE 2'-0" EXISTING PAVEMENT OR PAVEMENT WITH CURB. EXPOSE AND CLEAN EXISTING REINFORCING.
3. 24 BAR DIAMETER LAP SPLICE OR WELD, IF DIRECTED.
4. IF NO EXPOSED REINFORCING STEEL EXISTS, HORIZONTAL DOWELS SHALL BE GRADE 60, 30" LONG DRILLED AND AND EMBEDDED 15" INTO THE CENTER OF THE EXISTING CONCRETE SLAB WITH EPOXY OR APPROVED EQUAL. SIZE OF DOWEL BARS SHALL CONFORM TO TABLE 1. DOWELS SHALL BE PLACED 24" CENTER TO CENTER.
5. ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO USE FULL DEPTH SAWCUT WITH DRILLED IN DOWELS (AS SHOWN ON THE "TYPICAL CONCRETE CURB REINFORCING DETAIL" DRAWING). IF THE CONTRACTOR SO CHOOSES, THE SAWCUTTING AND DOWELS WILL BE AT HIS OWN EXPENSE (THESE ITEMS WILL ONLY BE PAID FOR IF THE COUNTY REQUIRES THE FULL DEPTH SAWCUT AND DOWELS).



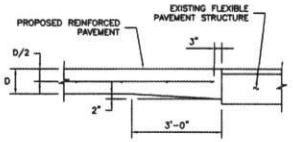
CONTRACTION JOINT (SAWED)
SCALE: 1" = 1'-6"

NOTE FOR CONTRACTION JOINT:

1. 20'-0" MAXIMUM SPACING BETWEEN JOINTS.



TYPICAL SECTION
PAVING TIE-IN TO BRIDGE APPROACH SLAB
SCALE: 1" = 1'-6"



TYPICAL PAVING HEADER
SCALE: 1" = 1'-6"

NOTES FOR PAVING HEADER:

1. ADDITIONAL CONCRETE FOR PAVING HEADER SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.
2. DISTURBED MATERIAL IN THE FLEXIBLE PAVEMENT WILL BE BACKFILLED WITH ASPHALT CONCRETE PAVEMENT (ACP). THE ACP WILL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.

GENERAL NOTES:

1. FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND REINFORCING, REFER TO THE GOVERNING SPECIFICATION ITEM 360 "CONCRETE PAVEMENT".
2. THE CHAIRS USED TO SUPPORT THE BAR MATS SHALL BE OF SUFFICIENT STRUCTURAL QUALITY AND NUMBER TO HOLD THE MAT WITHIN THE PLACEMENT HEIGHT, AND SHALL BE OF A TYPE APPROVED BY THE ENGINEER. SPACING OF BAR SUPPORT CHAIRS SHALL BE 3 FEET MAXIMUM.
3. SAWED CONTRACTION JOINTS SHALL BE USED FOR LONGITUDINAL JOINTS WHEREVER MORE THAN ONE LANE WIDTH IS PLACED IN A SINGLE POUR. KEYED CONSTRUCTION JOINTS SHALL BE USED AT ALL OTHER JOINTS.
4. ALL SAW CUTTING SHOWN ON THIS DETAIL SHALL BE INCIDENTAL TO ITEM 360 "CONCRETE PAVEMENT".
5. D = THICKNESS OF CONCRETE PAVEMENT. (SEE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE.")
6. JOINT SEALANT SHALL CONFORM TO THE REQUIREMENTS OF ITEM 360 "CONCRETE PAVEMENT".

T.B.P.E. FIRM #15114

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ALTERNATE #3

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

Date

Revision / Date

Project:

SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

STATE OF TEXAS
W. JOEL SEYBERT
92999
LICENSED
PROFESSIONAL ENGINEER
12-16-15

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FALCON LANDING
CONCRETE PAVING
DETAILS 1 OF 2

Job. No. 177-08-01
Drawn By: RI / GLY
Date: 09/04/2015
Sheet No. C806
Sheet of

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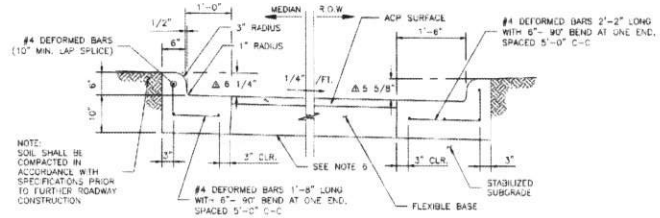
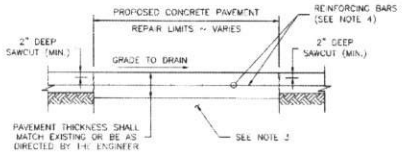


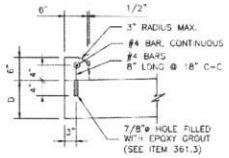
6" MONOLITHIC CURB AND GUTTER
SCALE: 1" = 1'-0"



FULL DEPTH CONCRETE PAVEMENT REPAIR
HORIZONTAL SCALE: 1" = 3'-0"
VERTICAL SCALE: 1" = 1'-6"

FULL DEPTH CONCRETE PAVEMENT REPAIR NOTES:

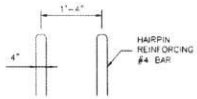
1. SAWCUT LIMITS SHALL BE AS DIRECTED BY ENGINEER.
2. EXISTING CONCRETE VERTICAL FACES SHALL BE CLEANED OF ALL DELETERIOUS LOOSE MATERIAL PRIOR TO CONCRETE PLACEMENT.
3. FOR REPAIR/REPLACE AREAS, A 6" DEPTH BASE SHALL BE REMOVED AND REPLACED WITH CEMENT STABILIZED SAND PER ITEM 433.
4. REINFORCEMENT OF 9"-10" THICK CONCRETE PAVEMENT SHALL BE NO. 5 BARS AT 18" SPACING IN EACH DIRECTION. REINFORCEMENT FOR PAVEMENT LESS THAN 8" THICK SHALL BE NO. 4 BARS AT 18" IN EACH DIRECTION.
5. ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO USE FULL DEPTH SAWCUT WITH DRILLED IN DOWELS (AS SHOWN ON THE "TYPICAL CONCRETE CURB REINFORCING DETAIL" DRAWING). IF THE CONTRACTOR SO CHOOSES, THE SAWCUTTING AND DOWELS WILL BE AT HIS OWN EXPENSE. (THESE ITEMS WILL ONLY BE PAID FOR IF THE COUNTY REQUIRES THE FULL DEPTH SAWCUT AND DOWELS).
6. CONCRETE THICKNESS MAY DIFFER FROM THE ASPHALT AND BASE THICKNESS.



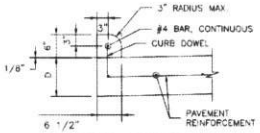
CONCRETE DOWELED ON CURB FOR CONCRETE PAVEMENT
SCALE: 1" = 1'-0"

NOTES FOR CURB:

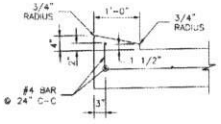
1. AT EACH PAVEMENT CONTRACTION JOINT, PROVIDE A 1/4" THICK PRE-MOLDED EXPANSION JOINT AT THE FULL WIDTH AND HEIGHT OF THE CURB.
2. FOR EACH PAVEMENT EXPANSION JOINT, THE PRE-MOLDED EXPANSION JOINT FILLER MATERIAL SHALL BE THE FULL WIDTH AND HEIGHT OF THE CURB.



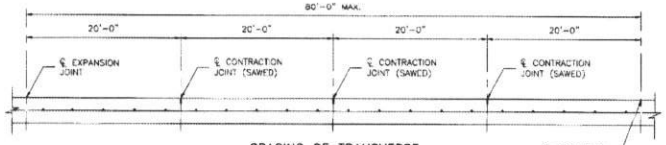
ALTERNATE VERTICAL REINFORCEMENT
SCALE: 1" = 1'-6"



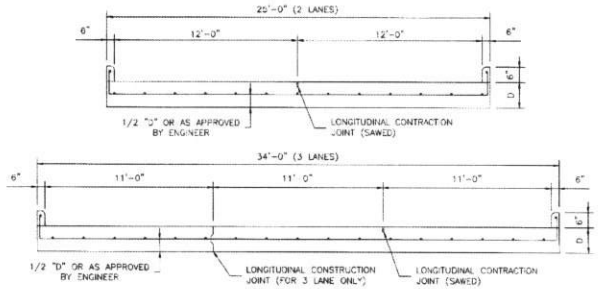
TYPICAL CONCRETE CURB REINFORCING DETAILS
SCALE: 1" = 1'-0"



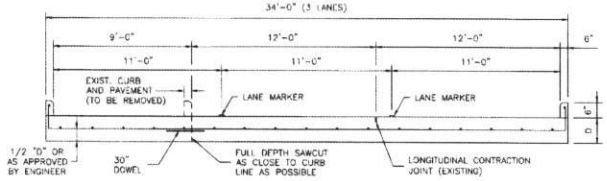
4" X 12" MONOLITHIC CURB
SCALE: 1" = 1'-0"



SPACING OF TRANSVERSE EXPANSION AND CONTRACTION JOINTS
HORIZONTAL SCALE: 1" = 6'-0"
VERTICAL SCALE: 1" = 1'-6"



SPACING OF LONGITUDINAL JOINTS
(NEW CONSTRUCTION)
HORIZONTAL SCALE: 1" = 3'-0"
VERTICAL SCALE: 1" = 1'-6"



SPACING OF LONGITUDINAL JOINTS
(WIDENING)
HORIZONTAL SCALE: 1" = 3'-0"
VERTICAL SCALE: 1" = 1'-6"

T.B.P.E. FIRM #15114
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ENGINEERING CONSULTANTS, LLC
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O: 832.437.7277

ALTERNATE #3

APPROVED: DEVELOPMENT COORDINATOR
DATE: 12/21/15

PLAN TRUE

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Revision / Date

Project:
SOUTH TRANSPORTATION CENTER EXPANSION
FOR
KATY ISD
3151 FALCON LANDING BLVD. KATY, TX 77494

W. JOEL SEYBERT
92395
LICENSED PROFESSIONAL ENGINEER
12-18-15

Huckabee

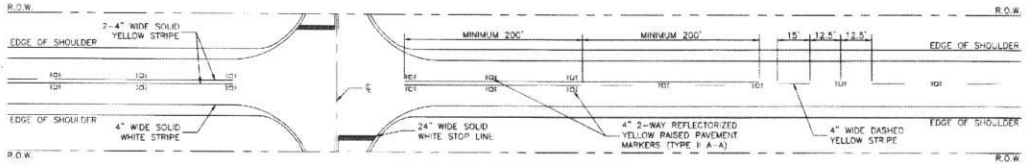
FALCON LANDING CONCRETE PAVING DETAILS 2 OF 2

Job No. 1221-01-01
Drawn By: JRF/QLY
Date: 08/18/2015

Sheet No. C807

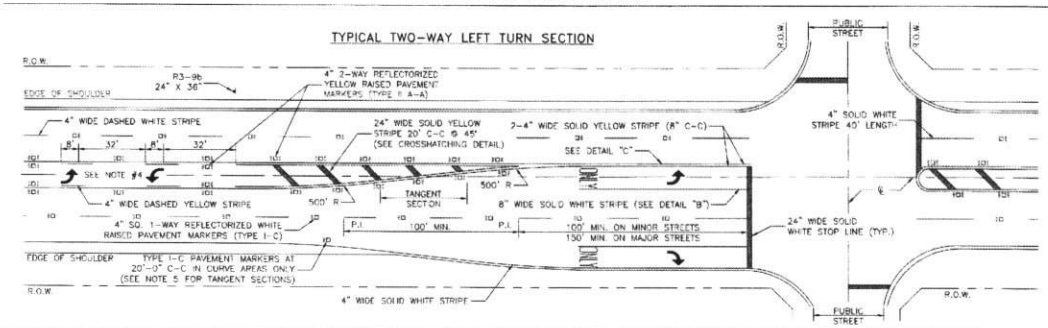
Sheet of

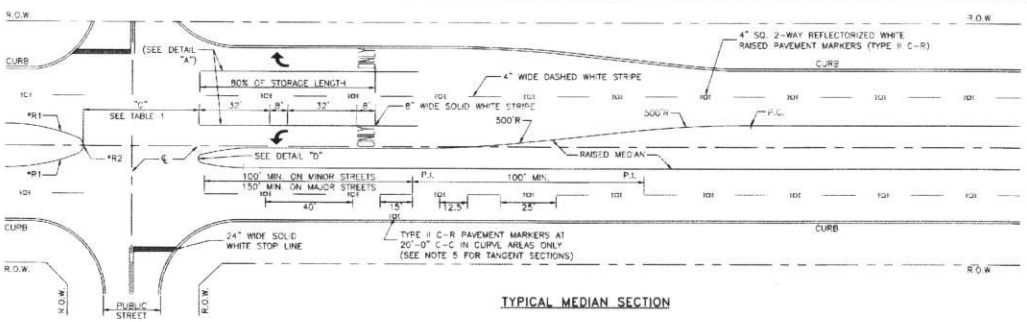
Plot Creation: Dec 16, 2015 at 1:00:24 pm Last Work
Location: X:\Projects\Huckabee\16-081 SB Katy ISD South Texas Bldg\CADD\HaBPdwks\C807 PVG2DTL2.dwg



TYPICAL TWO LANE TWO-WAY ROAD

TYPICAL TWO-WAY LEFT TURN SECTION



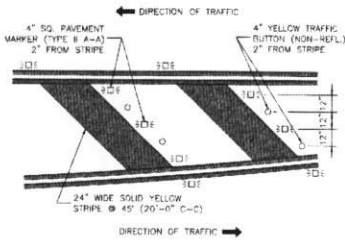


TYPICAL MEDIAN SECTION

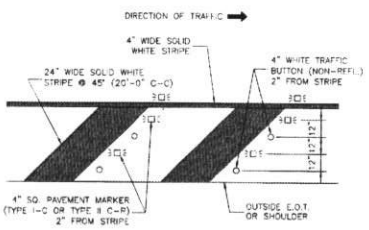
NOTES:

1. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (TMUTCD).
2. ALL TRAFFIC BUTTONS AND MARKERS SHALL BE INSTALLED ADJACENT TO STRIPES (APPROXIMATELY 2").
3. LEFT TURN STORAGE BAYS SHALL BE A MIN. OF 100' ON MINOR STREETS AND A MIN. 150' ON MAJOR STREETS.
4. REPEAT ARROWS AT APPROXIMATELY 1000' INTERVALS WITHIN TWO-WAY LEFT TURN SECTION.
5. WITHIN A TANGENT SECTION THE TYPE I-C PAVEMENT MARKERS SHALL BE PLACED AT 40' C-C ON ROADWAYS WITHOUT CURB AND GUTTERS.
6. WHEN PAVEMENT MARKINGS EXTEND INTO OR CONTINUE THROUGH AN INTERSECTION AREA, THEY SHALL BE THE SAME COLOR AND AT LEAST THE SAME WIDTH AS THE LINE MARKINGS THEY EXTEND.
7. WHEN CROSSWALK MARKINGS ARE USED WITHIN AN ESTABLISHED SCHOOL ZONE AREA, CONTINENTAL TYPE MARKINGS SHALL BE USED.
8. ADDITIONAL SET OF "WORD" AND "ARROW" PAVEMENT MARKINGS SHALL BE USED WHEN TURN LANE STORAGE LENGTH IS 160 FEET OR GREATER.

CROSSHATCHING DETAIL



OUTSIDE EDGE CROSSHATCHING DETAIL



T.B.P.E. FIRM #15114

S&G ENGINEERING CONSULTANTS, LLC

ALTERNATE #3

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

Project: SOUTH TRANSPORTATION CENTER EXPANSION FOR KATY ISD 3151 FALCON LANDING BLVD. KATY, TX 77494

Revision / Date

W. JOEL SEYMORE 12-18-15

Huckabee

FALCON LANDING PAVEMENT MARKING DETAILS 1 OF 2

Job No. 172.01-01

Drawn By: JH / DLT

Date 09/04/2015

Sheet No. C808

Sheet of

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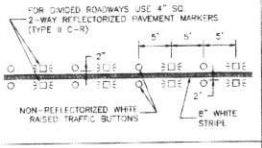
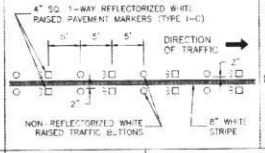
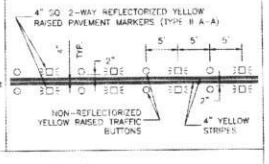
DETAIL "A"
(FOR DIVIDED ROADWAYS)



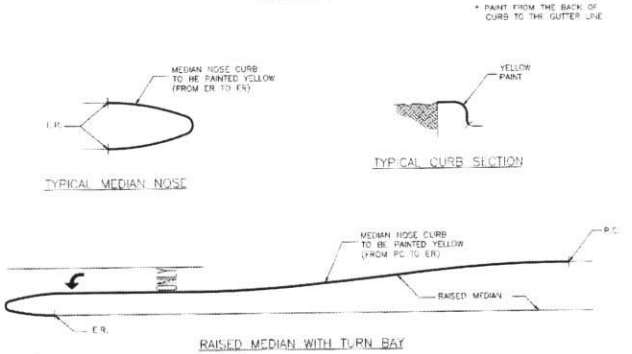
DETAIL "B"
(FOR UNDIVIDED ROADWAYS)



DETAIL "C"



DETAIL "D"



PAVEMENT MARKER LEGEND

SYMBOL	DESCRIPTION
	4" x 4" REFLECTORIZED RAISED PAVEMENT MARKER
	INDICATED DIRECTION OF TRAFFIC FLOW
	NON-REFLECTIVE 4" DIA. RAISED TRAFFIC BUTTON

RADIUS DIMENSIONS

MEDIAN	*R1	*R2
≤10'	N/A	W/2
>10' ≤40'	90'	W/5
>40'	N/A	N/A

TABLE 1
TYPICAL MEDIAN OPENING "C"

MEDIAN INTERRUPTION	(1) NO LTB	(1) 1 LTB	(1) 2 LTB
PRIVATE DRIVE	45'	52.5'	60'
UNDIVIDED STREET ≤40'	45'	52.5' (2)	60'
UNDIVIDED STREET 44'	55'	55' (2)	60'
DIVIDED STREET	D+22'	D+22'	D+22'

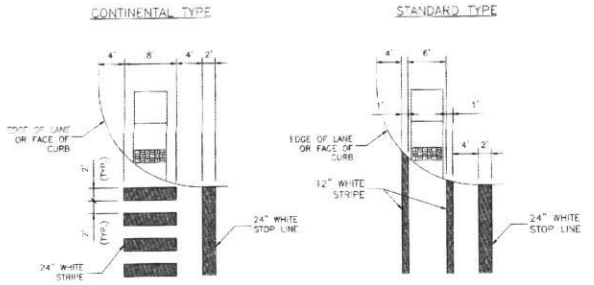
NOTES:

(1) LTB = LEFT TURN BAY

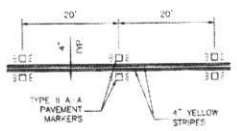
(2) DISTANCE FROM CENTERLINE OF OPENING TO MEDIAN NOSE WITH LEFT TURN LANE IS 30' FOR RIGHT ANGLE INTERSECTIONS. FOR INTERSECTIONS OTHER THAN 90°, APPLY DESIGN VEHICLE TURNING TEMPLATE TO DETERMINE DIMENSION TO MEDIAN NOSE CUT OFF.

(3) D = WIDTH OF DIVIDED STREET

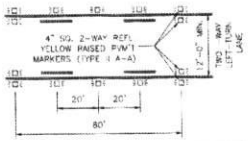
TYPICAL CROSSWALK PLACEMENT



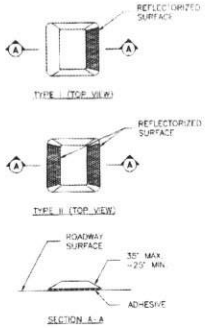
CENTER LINE DETAIL CURVE SECTION



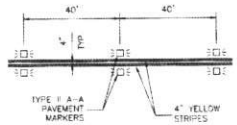
TWO-WAY LEFT TURN CURVE SECTION



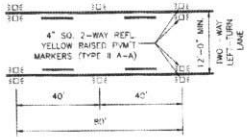
RAISED PAVEMENT MARKERS



CENTER LINE DETAIL TANGENT SECTION



TWO-WAY LEFT TURN TANGENT SECTION



T.B.P.E. FIRM #15114

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ALTERNATE #3

APPROVED: DEVELOPMENT CORPORATION

DATE: 12/21/15

PLAN TRUE

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Revision / Date

Project: SOUTH TRANSPORTATION CENTER EXPANSION FOR KATY ISD 3151 FALCON LANDING BLVD. KATY, TX 77494

R. JOEL SEYBERT 52999 LICENSED PROFESSIONAL ENGINEER 12-16-15

Huckabee

FALCON LANDING PAVEMENT MARKING DETAILS 2 OF 2

Job No. 1791-23.01

Drawn By: JB / SJ

Date: 10/29/2015

Sheet No. C809

Sheet of

Plot Contents: Dec 16, 2015 at 1:08:38 pm User: Work
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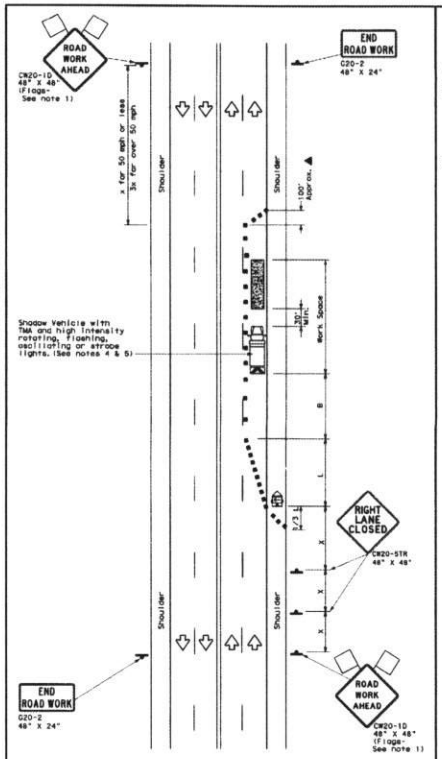
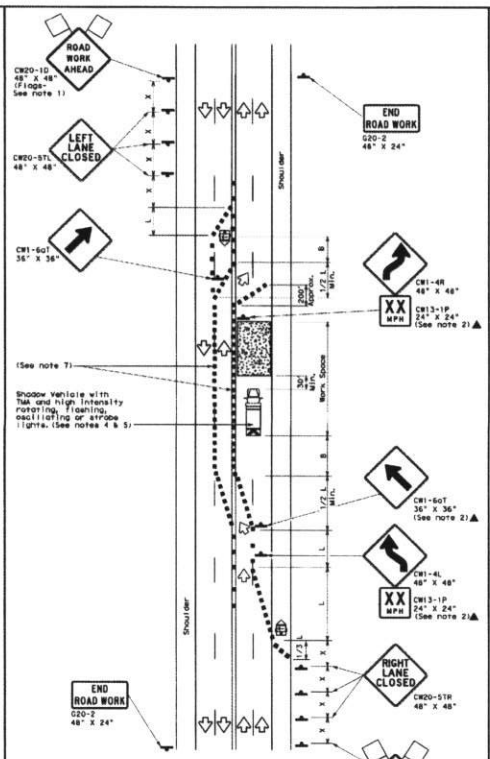


TCP (1-4a)

ONE LANE CLOSED



TCP (1-4b)

TWO LANES CLOSED

LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "Q"
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
** Taper lengths have been rounded off.
L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓		

GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. The CW20-1D "ROAD WORK AHEAD" sign may be repeated if the visibility of the work zone is less than 1500 feet.
4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-4a)

6. If this TCP is used for a left lane closure, CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline where needed to protect the work space from opposing traffic with the arrow panel placed in the closed lane near the end of the merging taper.

TCP (1-4b)

7. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/25 where S is the speed in mph. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN
LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

TCP(1-4)-12

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DATE/TIME			
2-94	2-12		
8-95			
1-97			
4-98			

5-4

DATE FILED

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ALTERNATE #3

APPROVED: DEVELOPMENT COORDINATOR

DATE: 12/21/15

PLAN TRUE

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Revision / Date

Project: SOUTH TRANSPORTATION CENTER EXPANSION FOR KATY ISD
3151 FALCON LANDING BLVD, KATY, TX 77494

W. JOEL SEYBERT 67998 LICENSED PROFESSIONAL ENGINEER
12-16-15

Huckabee
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FALCON LANDING TRAFFIC CONTROL PLAN

Job No. 1721-01-01
Drawn By: JW / DLT
Date: 09/24/2015
Sheet No. C810
Sheet of

Plot Scale: 1:1
Plot Date: Dec 16, 2015 at 2:08:37 pm User: Work
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