

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 5th day of July, 2016, Commissioners Court came on to be heard and reviewed the accompanying notice

of Husmann Architecture, PLLC / Scott Drilling Inc
Job Location 15055 West Drive, Houston, TX 77053

Date Bond No. 179117, Permit No. 2016-6903 to make use of certain Fort Bend County property subject to, "A Revised Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas the 3rd day of August, 1987, recorded in Volume _____ of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's Texas Civil Statutes. Upon Motion of Commissioner

Meyers, seconded by Commissioner Patterson, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. when construction is completed and ready for final inspection

Mail notices to: Permit Administrator
Fort Bend County Engineering
301 Jackson Street
Richmond, Texas 77469
281-633-7500

3. This permit expires one (1) year from date of permit if construction has not commenced.

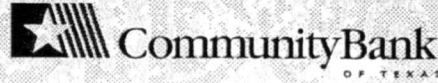
By: Charles O. DA
County Engineer

By: N/A
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.
Recorded in Volume 715/16 10E
Minutes of Commissioners Court

Clerk of Commissioners Court
By: RENEE MICHULKA
Deputy

WARNING - THIS CHECK IS PROTECTED BY SPECIAL SECURITY GUARD PROGRAM™ FEATURES



Cashier's Check

179117

Date: 5/03/16

Branch: 0064

REMITTER SCOTT DRILLING INC

**PAY
TO THE
ORDER OF**

EXACTLY **5,000 AND 00/100 DOLLARS

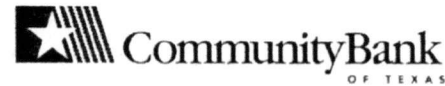
\$5,000.00

FORT BEND COUNTY /PROJECT# 2016-69-03



[Handwritten Signature]

THIS CHECK CONTAINS MULTIPLE SECURITY FEATURES - SEE BACK FOR DETAILS



Cashier's Check

179117

REMITTER: SCOTT DRILLING INC
11923 GREEN PINE CIRCLE
HOUSTON, TX 77066

DATE: 5/03/16

BRANCH: 0064
ORIGINATOR: W30CESCAMI
TIME: 11:48:03
CK AMT: \$5,000.00
FEE AMT: \$.00

TO: FORT BEND COUNTY /PROJECT# 2016-69-03

TOTAL: \$5,000.00

NON-NEGOTIABLE

PRINT



Order Confirmation

Fort Bend County, Office of County Clerk

301 Jackson Street
 Richmond, TX 77469
 U.S.A.

TXCLASS


Order Date: 7/7/2016 Order Number: TXO01190925
 Participant Name: Fort Bend County, Office of County Clerk
 Account Name: CCM2016-6903-Scott
 Drilling Inc
 Account Number: TXCLASS Authorized Renee Michulka
 Transaction Type: Contribution
 Transaction Amount: \$5,000.00
 Bank Name: PROSPERITY BANK
 Bank Account No: XXXXXXXX-
 Payment Type: ACH
 ABA:
 Payment Instructions: *Please note you have made an ACH Contribution, these funds will not be available for withdrawal until the following business day.*

RECEIVED JUL - 7 2016
 ERIK MANNING

Memo:

Email: clientservices@texasclass.com Tel: (800) 707-6242 Fax: (855) 848-9910 www.texasclass.com

DEPOSIT

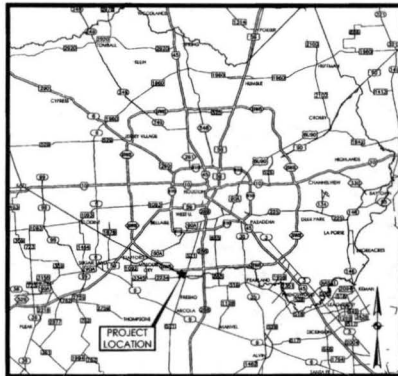
PERMIT #	2016-6903
STYLE:	Husmann Architecture, PLLC / Scott Drilling Inc
NAME PUT INTO TEXAS CLASS AS:	Scott Drilling Inc
TEXAS CLASS ACCOUNT NUMBER	
DEPOSIT AMOUNT:	\$5,000.00
DATE RECEIVED:	7/5/2016
DATE TRANSFERRED TO TEXAS CLASS:	7/7/2016

SCOTT DRILLING

FORT BEND COUNTY, TEXAS
PLANS FOR CONSTRUCTION
OF

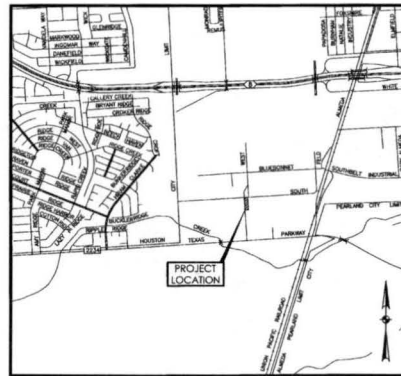
PAVING AND DRAINAGE

15055 WEST DRIVE
HOUSTON, TEXAS 77053
1.010 ACRES



LOCATION MAP

N.T.S.



KEY MAP # 612 A
ZIP CODE # 77053

VICINITY MAP

N.T.S.



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FORT BEND COUNTY ENGINEER

ENGINEER: Richard W. Stoffels, P.E.
for Richard W. Stoffels, P.E.

DATE: 4/8/16

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

APPROVED: Richard W. Stoffels
DEVELOPMENT COORDINATOR

DATE: 4/8/16



Stephen R. Hobbs
4/8/16

GENERAL CONSTRUCTION NOTES - OUTSIDE CITY LIMITS (FORT BEND COUNTY)

- 1. FORT BEND COUNTY MUST BE NOTICED TO THE PRE-CONSTRUCTION MEETING.
2. CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND 48 HOURS BEFORE TO ANY CONSTRUCTION ACTIVITY WITHIN THE LIMITS OF THE PERMIT.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FROM FORT BEND COUNTY PRIOR TO COMMENCING CONSTRUCTION OF ANY IMPROVEMENTS.
4. ALL PAVING IMPROVEMENTS SHALL BE CONSTRUCTION IN ACCORDANCE WITH FORT BEND COUNTY 'RULES REGULATIONS AND REQUIREMENTS RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS' AS CURRENTLY AMENDED.
5. A CONTINUOUS LONGITUDINAL REINFORCING BAR SHALL BE USED IN THE CURBS.
6. ALL CURB WIDTHS, CURB RADI AND CURB ALIGNMENT SHOWN INDICATES BAY CURBS.
7. ALL CONCRETE PAVEMENT SHALL BE 5 1/2" SACK BENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIMUM SPACING OF 10 FEET.
8. ALL WEATHER ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
9. 4"x12" REINFORCED CONCRETE CURB SHALL BE PLACED IN LINE OF SINGLE PAVLY LOTS ONLY. ALL OTHER AREAS SHALL BE 6" REINFORCED CONCRETE CURB.
10. AT ALL INTERSECTION LOCATIONS, TYPE 7 RAMPS SHALL BE PLACED IN ACCORDANCE WITH 1400 FFD-12A STANDARD DETAIL SHEET. A.S.A. TRANSVERSE RAMPS SHALL BE INSTALLED WITH STREET PAVING AT ALL INTERSECTIONS AND COMPLY WITH CURRENT A.S.A. REGULATIONS.
11. CURB HEADERS ARE REQUIRED AT CURB CONNECTIONS TO HANDCAP RAMPS, WITH NO CONSTRUCTION JOINT WITHIN 2' OF RAMPS.
12. ALL INTERSECTIONS UTILIZING TRAFFIC CONTROL MEASURES SHALL HAVE A.S.A. WHEELCHAIR RAMPS INSTALLED.
13. GARDENIES ARE 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 FLAGMEN, SIGNALS, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION - BOTH DAY AND NIGHT.
14. ALL 81-1 STOP SIGNS SHALL BE 30"x30" WITH DAMAGED GRACE SHEETING. STREET NAME SIGNS SHALL BE UPPER AND LOWER CASE LETTERS WITH DAMAGED GRACE SHEETING.
15. A BLUE DOUBLE REFLECTORIZED BUTTON SHALL BE PLACED AT EACH FIRE HYDRANT LOCATIONS. THE BUTTON SHALL BE PLACED 12" OFF THE CENTRELINE OF THE STREET ON THE SAME SIDE AS THE HYDRANT.
16. CONSTRUCT WASTEWATER COLLECTION SYSTEMS, WATER LINES AND STORM DRAINAGE IN ACCORDANCE WITH FORT BEND COUNTY'S STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES AND STORM DRAINAGE, AND STREET PAVING.
17. UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY 'TEXAS ONE CALL' AT (713) 487-9000-245-6545 AND 'LOVE SHAW ONE CALL' AT 800-866-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER AND STORM DRAINAGE LINES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING AT NO ADDITIONAL COST.
19. CONTRACTOR SHALL NOTIFY THE OFFICE OF THE FORT BEND COUNTY ENGINEER, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING IN WRITING PRIOR TO COMMENCING CONSTRUCTION.
20. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
21. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
22. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.
23. IF THE CONSTRUCTION DOES NOT BEGIN WITHIN A YEAR AFTER THE PLANS HAVE BEEN SIGNED, NEW SIGNATURES MUST BE OBTAINED AND LETTERS OF AVAILABILITY MUST BE UPDATED.
24. CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS BEING INSTALLED OR BUILT CONDITIONS DURING CONSTRUCTION. THESE REDLINE MARKED UP DRAWINGS WILL BE SUBMITTED TO THE DESIGN CONSULTANT, WHO WILL MAKE THE CHANGES ON THE ORIGINAL DRAWINGS.
25. THE OWNER SHALL OBTAIN THE NECESSARY PERMITS FOR RESTORATION OF UTILITY LINES WITHIN THE 100 YEAR FLOOD PLAIN.
26. THE CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEER AT LEAST 24 HOURS IN ADVANCE OF COMMENCING CONSTRUCTION. EMAIL: CONSTRUCTION@FORTBENDCOUNTY.TX GOV BY WRITTEN NOTICE 48 HOURS IN ADVANCE.
27. PAVING SHALL BE IN ACCORDANCE WITH FORT BEND COUNTY REQUIREMENTS.
28. ALL CONCRETE USED IN THE PROJECT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
29. GARDENIES SET FORTH IN THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' SHALL BE OBSERVED.
30. ALL ROADWAY FILL SHALL BE PLACED IN 8" LIFTS AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY PRIOR TO CONSTRUCTION OF UNDERGROUND UTILITIES.
31. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRENCH LINES (I.E. STORM SEWER, SANITARY SEWER AND WATER LINES) TO INDUCE MAXIMUM SETTLEMENT OF SHOULDER MATERIAL.
32. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF HOUSTON STANDARDS.
33. CONSTRUCTION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
34. CONTRACTOR SHALL LOCATE WHEELCHAIR RAMPS OUT OF MANHOLE REM LOCATIONS, RACK MANHOLE TOPS OR RELOCATE WHEELCHAIR RAMPS TO AVOID TRICICLE ACCIDENTS AND LAWSUITS.

STORM SEWER CONSTRUCTION NOTES

- 1. ALL STORM SEWERS TO BE ASTM C-79 CLASS B HCP, S.D.R. 30 PVC ASTM 3034 WITH RUBBER GASKET JOINT, HANCOR H-0 SURE-LOCK 108 PIPE OR APPROVED EQUAL. PIPE SHALL BE USED ASTM C-79 CLASS B RCP SHALL BE USED WHEN CONNECTING TO PUBLIC STORM SEWERS. PIPE GRADES ARE BASED ON CONCRETE PIPE TO PRODUCE A 3% MINIMUM SLOPE.
2. ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1 1/2" SACK COMB/CLY. ESTABLISHED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SURTILE (LITE) MATERIAL.
3. ALL TRENCH BACKFILLS SHALL BE IN 8" LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS ON EACH LIFT, AND MECHANICALLY TRENCHED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D-998/ASTM 709).
4. ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24" AND LARGER R.C.P. (C-79, CLASS B).
5. ALL PROPOSED PIPE SUB-OUTS WITH MANHOLES AND INLETS ARE TO BE PLAGGED WITH 6" BRICK WALLS UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL PROVIDE 12" MINIMUM CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS.
7. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 03086-ADJUSTING MANHOLES, INLETS AND VALVE BOXES TO GRADE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK.
9. ALL DITCHES SHALL BE REGRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREAS SHALL BE REGRADED, SEEDED, AND FERTILIZED.
10. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB AND UTILITY STRUCTURES.

WATER LINE CONSTRUCTION NOTES

- 1. UNLESS OTHERWISE NOTED, ALL WATER LINES 12-INCHES AND SMALLER SHALL HAVE A MINIMUM OF 4'-FEET OF COVER AND WATER LINES 14-INCHES AND LARGER SHALL HAVE A MINIMUM OF 5'-FEET OF COVER.
2. SANITARY PRECAUTIONS MUST BE TAKEN DURING WATER LINE CONSTRUCTION, AS CALLED FOR BY ANNA STANDARDS. PRECAUTIONS INCLUDE, BUT ARE NOT LIMITED TO, KEEPING PIPE CLEAN AND CAPPED OR OTHERWISE EFFECTIVELY COVERING OPEN PIPE ENDS TO EXCLUDE INSECTS, ANIMALS OR OTHER SOURCES OF CONTAMINATION FROM UNFINISHED PIPE LINES AT TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.
3. ALL WATER LINES, AFTER INSTALLATION, SHALL BE THOROUGHLY DECONTAMINATED TO OPEN CHAPTER 280 AND ANNA SPECIFICATION CHANGES THAT EFFECTS DECONTAMINATION MEASURES. ALL DECONTAMINATION MEASURES SHALL BE COLLECTED, ANALYZED AND MUST MEET THE TEXAS STATE DEPARTMENT OF HEALTH AND CITY OF HOUSTON REQUIREMENTS PRIOR TO PLACING THE LINES INTO SERVICE.
4. PIPE MATERIAL (IF NOT A STEEL SECTION) SHALL BE POLY-VINYL CHLORIDE (P.V.C.) CONFORMING TO ANNA SPECIFICATION C-800, WITH BELL AND SPIGOT JOINT ON JOINTS.
5. THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING GATE VALVES. THE CONTRACTOR SHALL CONTACT THE MUNICIPAL UTILITY DISTRICTS OPERATOR A MINIMUM OF 48 HOURS PRIOR TO MAKING ANY CONNECTIONS TO THE EXISTING WATER LINE AND TO OPERATE ANY EXISTING GATE VALVES.
6. ALL WATER VALVES SHALL OPEN CLOCKWISE. SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF ANNA SPECIFICATION C-500 AND SHALL BE OF THE RESILIENT SEAT TYPE.
7. WATER LINES PARALLEL TO SANITARY SEWER LINES SHALL BE INSTALLED WITH AT LEAST 8'-FEET OF CLEARANCE FROM OUTSIDE OF PIPE AND SHALL BE INSTALLED IN SEPARATE TRENCHES. CONTRACTOR MUST MAINTAIN A MINIMUM OF 8'-FEET OF CLEARANCE BETWEEN OUTSIDE OF SANITARY SEWER MANHOLES AND WATER LINES AS SPECIFIED BY TITLE, CHAPTER 317 (LATEST PRINTING).
8. WATER LINES SHALL BE CONSTRUCTED SO THAT ALL FITTINGS WILL NOT BE LOCATED UNDER PROPOSED OR FUTURE PAVEMENT.
9. THE UTILITY CONTRACTOR SHALL TURN FIRE HYDRANTS AND MAKE ALL FINAL ADJUSTMENTS AFTER COMPLETION OF PAVING. NO SEPARATE PAY.
10. THIS PROJECT SHALL BE BUILT BY MEANS OF OPEN CUT EXCEPT AS NOTED ON THE DRAWINGS. CONTRACTOR TO DETERMINE THE LOCATIONS OF BORE PITS IN FIELD SUBJECT TO THE CITY ENGINEER'S APPROVAL.

STANDARD F.B.C.C.D. NOTES

- 1. ALL EXISTING AREAS WITHIN THE FORT BEND COUNTY DRAINAGE DISTRICT RIGHT-OF-WAY, EXCEPT THE CHANNEL BOTTOM, SHALL BE RENOVED-SEDED AS PER FORT BEND COUNTY DRAINAGE DISTRICT SPECIFICATION ENTITLED 'HYDRO-MULCH SEEDING' OR APPROVED EQUAL.
2. BACKFILL TO BE COMPACTED IN NO GREATER THAN 1 FOOT LIFTS TO THE DENSITY OF THE UNDISTURBED ADJACENT SOIL.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING CHANNEL FLOW LINE TO DESIGN ELEVATION AS SHOWN ON PLANS AND DOWNSTREAM AS NECESSARY TO INSURE NO MUD IN STORM SEWERS DURING 'D'Y' CONDITIONS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOW IN CHANNEL DURING CONSTRUCTION AND RESTORING CHANNEL TO ORIGINAL CONDITION.
5. ALL EXCAVATED MATERIAL IS TO BE REMOVED FROM THE F.B.C.C.D. RIGHT-OF-WAY. NO FILL IS TO BE PLACED WITHIN A DESIGNATED FLOOD PLAIN AREA UNLESS PERMITTED BY THE F.B.C.C.D.
6. CONTRACTOR, WITH THE ASSISTANCE OF THE ENGINEER IF NECESSARY, SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL PERMITS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND RESTORING BACKSLOPE DRAINAGE SYSTEM ALONG F.B.C.C.D. RIGHT-OF-WAYS AND EASEMENTS.

SANITARY SEWER CONSTRUCTION NOTES

- 1. ALL PROPOSED SANITARY SEWER SHALL BE CONSTRUCTION OF MATERIAL WHICH IS IN ACCORDANCE WITH C.O.D. SPECIFICATION NO. 02506.
2. ALL 8" OR/DR P.V.C. PIPES ARE TO HAVE RUBBER GASKETED PUSH-ON BELL-AND-SPIGOT JOINT. JOINT ENDS CHEMICALLY WELDED SANITARY SEWER JOINTS ARE NOT ACCEPTABLE. ALL 8" OR P.V.C. PIPE USED IS TO HAVE CLIP 'NOTED' O.D.'S REGARDLESS OF ANY OTHER WASTEWATER CONSTRUCTION NOTE TO THE CONTRARY. ALL P.V.C. PIPE AND FITTINGS TO BE 30% MARKED (STAMPED).
3. ALL SANITARY SEWER SERVICE LEADS SHALL BE ASTM 3034 SDR 28 P.V.C. PIPE.
4. SANITARY SEWER AND SERVICE LEADS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY DEPARTMENT OF PUBLIC WORKS AND ENGINEERING STANDARD CONSTRUCTION SPECIFICATIONS.
5. SANITARY SEWER, INCLUDING ALL LEADS, SHALL HAVE CEMENT STABILIZED SAND BEDDING AND BACKFILL AS PER C.O.D. DRAWING NO. 02317-03 IN THE CITY OF HOUSTON STANDARD CONSTRUCTION DETAILS.
6. SANITARY SEWERS CONSTRUCTED IN WEST STABLE TRENCH SHALL BE BEDDED & BACKFILLED AS PER CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING DETAIL NO. 02317-02 OF DETAILS.
7. ALL CEMENT STABILIZED SAND (USED FOR SEWER BEDDING AND/OR PAVING BACKFILL) MUST MEET OR EXCEED CURRENT FORT BEND COUNTY PERFORMANCE SPECIFICATION (100 PSI COMPRESSION TEST) REGARDLESS OF ANY OTHER MINIMUM CEMENT CONTENT RATIO REQUIREMENTS STATED IN OTHER DRAWINGS.
8. SANITARY SEWER MANHOLE RINGS, AS A RULE SHALL BE SET 2" MINIMUM ABOVE THE SURROUNDING LEVEL. FINISHED GRADE AFTER PAVING, WITH SLOPED BACKFILL, ADOPT FOR STORMWATER DRAINAGE AWAY FROM THE MANHOLE RING. MANHOLES IN THE 100 YEAR FLOOD PLAIN SHALL EITHER HAVE TOPS RANGED 12" MINIMUM ABOVE 100 YEAR WATER LEVEL OR BE SEALED AND NOTED PER APPROVED DETAIL ON THESE PLANS.
9. SANITARY SEWER MANHOLES ARE TO BE PRECAST IN ACCORDANCE WITH THE CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS. CAST-IN-PLACE MANHOLES ARE NOT ALLOWED.
10. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS & ENGINEERING DETAIL NO. 02085-02 WITH TOPS FROM CURB, NO. 02085-02.
11. WHERE P.V.C. (OR OTHER SMOOTH FINISH) PIPE IS TO BE USED, WATER-STOP GASKET AND CLAMP ASSEMBLY ARE TO BE FURNISHED AND INSTALLED AT ALL CONNECTIONS TO MANHOLES, NO SEWAPAT.
12. WHEN MAKING A CONNECTION TO AN EXISTING SANITARY SEWER MANHOLE, CONTRACTOR SHALL PLUG DOWNSTREAM END OF PROPOSED SANITARY SEWER. THE SEWER SHALL REMAIN PLUGGED UNTIL FINAL ACCEPTANCE BY THE CITY.
13. THE TOTAL FOOTAGE OF ALL SANITARY SEWERS SHALL BE AIR TESTED OR WATER TESTED BY THE CONTRACTOR. THE CURRENT CITY OF HOUSTON TESTING PROCEDURE SHALL BE FOLLOWED. IF THE WATER TESTING METHOD IS EMPLOYED, THE TOTAL INFILTRATION/EXFILTRATION SHALL NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER, PER MILE OF PIPE, PER 24 HOURS. IF THE 'AIR TESTING METHOD' IS EMPLOYED, THE CONSTRUCTION REQUIREMENTS AND PROCEDURES OF ALL TESTS WILL BE AGREED UPON BY THE CONTRACTOR AND THE ENGINEER.
14. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE AND SAND-RED PIPE, WITH THE EXCEPTION OF SERVICE LEADS. THE TESTS SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 3/8". THE TEST IS TO BE APPLIED TO A MANHOLE 18" ABOVE THE INSIDE DIAMETER OF THE PIPE. THE MANHOLE SHALL HAVE A MINIMUM OF 9" RUMMER (ODD NUMBER ONLY), WITH THE CONTACT LENGTH OF EACH RUMMER BEING BOTH HORIZONTAL AND NOT LESS THAN ONE OF THE NOMINAL INSIDE DIAMETER OF THE PIPE BEING TESTED. THE CONTRACTOR SHALL PROVIDE AN APPROVED TRAILING RIG FOR THE MANHOLE DRESS. THERE WILL BE NO SEPARATE PAY FOR MANHOLE TESTS. ANY PIPE NOT MEETING TESTED REQUIREMENTS SHALL BE REMOVED, REPLACED AND RETESTED AT THE CONTRACTOR'S EXPENSE.
15. SANITARY SEWER TESTING WILL BE IN ACCORDANCE WITH FORT BEND COUNTY DEPARTMENT OF PUBLIC WORKS AND ENGINEERING STANDARD CONSTRUCTION SPECIFICATIONS. CONTRACTOR IS TO FURNISH ALL NECESSARY TEST PLUGS AND REISERS, IF NEEDED (INCLUDING M.J.'S) TO BE AIR TESTED, UPON APPROVAL, LETTER FROM CITY'S WASTEWATER SECTION.
16. MANHOLE TESTING REQUIREMENTS FOR SEWERS CONSTRUCTED OF P.V.C. (WITH WALLS THINNER THAN SDR 21): A.S.P./P.V.C. 'TRUST' TESTING IS NOT REQUIRED FOR RIGID (NON-PLASTIC) PIPES AND PRESSURE PIPES, AS DESIGNATED IN THESE NOTES BY THE CITY.
17. MAINTAIN 12 INCH MINIMUM VERTICAL CLEARANCE AT CROSSINGS BETWEEN SANITARY SEWERS AND CULVERTS, UNLESS OTHERWISE NOTED.
18. WHENEVER A SANITARY SEWER CROSSES OVER A WATER MAIN OR UNDER A WATER MAIN CLOSER THAN 2 FEET VERTICALLY, THE SEWER PIPE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (CLASS NO. 305, MIN. THICKNESS CLASS 52) OR 3000 P.V.C. AND JOINT OF THE SEWER PIPE WILL BE CENTERED ON THE WATER MAIN.
19. CONTRACTOR SHALL KEEP RECORD OF LOCATION OF ALL STACKS, STOPS, SLEEVES, ETC.
20. PRIOR TO SANITARY SEWER CONSTRUCTION, CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS AND ENGINEERING AND COMPLY WITH ALL TESTING REQUIREMENTS FOR ISSUANCE OF NECESSARY PERMITS FROM DEPARTMENT OF PUBLIC WORKS AND ENGINEERING.
21. PRIVATE SANITARY SEWERS ARE TO BE PRIVATELY OWNED, OPERATED AND MAINTAINED BY SERVICED PROPERTY OWNER.

TRAFFIC NOTES

- 1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART 11 OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS M.U.T.C.D.), MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
2. NO LINES SHALL BE CLOSED DURING THE HOURS OF 7:00 AM AND 9:00 AM AND 4:00 PM TO 6:00 PM MONDAY THRU FRIDAY ON MAJOR STREETS.
3. NO WORK OR RESIDENTIAL TRAFFIC FROM 7:00 PM TO 7:00 AM SEVEN DAYS A WEEK.
4. CONTRACTOR SHALL MAINTAIN AT LEAST ONE LANE OF TRAFFIC IN EACH DIRECTION DURING WORK.
5. CONTRACTOR SHALL MAINTAIN TRAFFIC LINES (ACCORDING TO TRAFFIC CONTROL PLANS) DURING WORKING HOURS.
6. CONTRACTOR SHALL COVER OPEN EXCAVATION WITH STEEL PLATES ANCHORED PROPERLY DURING WORKING HOURS AND OPEN LINES FOR NORMAL TRAFFIC FLOW.
7. OFF-DUTY UNIFORMED POLICE OFFICERS (FLAGMENS) 5/4/86 REQUIRED TO DIRECT TRAFFIC WHEN LINES ARE BLOCKED.
8. IN THE EVENT WHEN NO 'TRAFFIC CONTROL PLANS' EXIST AS A PART OF CONTRACT DRAWINGS, CONTRACTOR MAY PREPARE PLANS AND SUBMIT TO PLAN REVIEW SECTION FOR APPROVAL. TEN DAY PRIOR TO IMPLEMENTATION.
9. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF 'TRAFFIC CONTROL PLANS' DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, (SCALE SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT AN ALTERNATE SET OF PLANS) TO PLAN REVIEW SECTION FOR APPROVAL TEN DAY PRIOR TO IMPLEMENTATION.
10. THESE PLANS SHALL BE DRAWN TO SCALE ON REDUCIBLE MATERIAL AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. PLANS WILL COME OF A PART OF THE CONTRACT DRAWINGS.
11. APPROVED COPIES OF 'TRAFFIC CONTROL PLANS' AND LANE/SIDEWALK CLOSURE PERMITS SHALL BE AVAILABLE FOR INSPECTION AT JOB SITE AT ALL TIMES.
12. CONTRACTOR MUST SECURE 'LANE/SIDEWALK CLOSURE PERMITS' FROM FORT BEND COUNTY MAINTENANCE BRANCH BEFORE CLOSING A LANE/SIDEWALK. THE REQUEST MUST BE MADE AT LEAST THREE BUSINESS DAYS PRIOR TO THE DATE FOR WHICH THE CLOSURE IS SOUGHT. NOTE THAT WORKING HOURS MAY BE RESTRICTED OR THE REQUEST MAY BE DENIED. EMAIL: CONSTRUCTION@FORTBENDCOUNTY.TX GOV FOR AN APPLICATION.
13. BUSINESSES WITH TWO OR MORE DRIVEWAYS MUST HAVE AT LEAST ONE DRIVEWAY OPEN AT ALL TIMES.
14. ACCESS TO RESIDENCES AND BUSINESSES MUST BE MAINTAINED.
15. ALL EXISTING REGULATORY AND WARNING SIGNS SHALL BE KEPT OPERATIONAL AND FUNCTIONAL DURING CONSTRUCTION.
16. SPACING FOR CHANNEL DEVICES (UNLESS OTHERWISE NOTED):
A. PLASTIC DRUMS ON MENDING TAPER @ 30'-C WITH CHEVRON SIGN @ 30'-C AND TYPE 'C' WARNING LIGHT (FOR OVERNIGHT CLOSURE).
B. PLASTIC DRUMS ON DOWNSTREAM TAPER @ 35'-C.
C. PLASTIC DRUMS ON RAMP @ 30'-C.
D. PLASTIC DRUMS ON TANGENT @ 35'-C WITH VERTICAL PANEL @ 70'-C AND TYPE 'C' WARNING LIGHTS @70'-C FOR OVERNIGHT CLOSURE).
E. PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE @20'-C WITH VERTICAL PANEL @40'-C AND TYPE 'X' WARNING LIGHT @40'-C (FOR OVERNIGHT CLOSURE).
17. CONCRETE TRAFFIC BARRIER (C.T.B.) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (L.P.C.T.B.) WITH REFLECTORS @10'-C IF PAVEMENT DEPTH IS MORE THAN 12 INCHES(12").

PRIVATE UTILITY NOTES

- CENTROPOINT ENERGY
CAUTION UNDERGROUND GAS FACILITIES
LOCATIONS OF CENTROPOINT ENERGY MAIN LINES (TO INCLUDE CENTROPOINT ENERGY, INTRASTATE PIPELINE LLC, WHERE APPLICABLE) ARE SHOWN IN APPROXIMATE LOCATION ONLY. 'SERVICE LINES ARE USUALLY NOT SHOWN. YOUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONTRACT ANALYST HAS BEEN MADE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL GAS FACILITIES AND PRESERVE THESE UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.
-WHEN CENTROPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL 713-967-8037 (7:00AM TO 4:30PM) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
-WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTROPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
-WHEN CENTROPOINT ENERGY FACILITIES ARE EXPOSED, SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
WARNING OVERHEAD ELECTRICAL FACILITIES
OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE USUALLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 75.02, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:
-ANY ACTIVITY WHERE PERSON OR THING MAY COME WITHIN SIX(6) FEET OF LINE OVERHEAD HIGH VOLTAGE LINES; AND
-OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LINE OVERHEAD HIGH VOLTAGE LINES.
PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THE LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO AVOID VIOLATION, CONTRACTORS SHOULD BE TURNED OFF OR REMOVED CALL CENTROPOINT ENERGY AT (713) 207-2222.
ACTIVITIES ON OR ACROSS CENTROPOINT ENERGY FIELD OR EASEMENT PROPERTY
NO APPROVAL TO USE, CROSS OR OCCUPY CENTROPOINT FIELD OR EASEMENT PROPERTY IS GIVEN IF YOU NEED TO USE CENTROPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6248 OR (713) 207-5769.
AT&T TEXAS/SWIFT FACILITIES
1. THE LOCATIONS OF AT&T TEXAS/SWIFT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE/ SHE SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
2. THE CONTRACTOR SHALL CALL 1-800-344-3377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWIFT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWIFT FACILITIES.
4. WHEN AT&T TEXAS/SWIFT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWIFT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROSSGELL LEE, JR. AT (713) 567-5852 OR EMAIL HM AT RL252@ATL.COM. IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR OUR AT&T TEXAS/SWIFT FACILITIES.

SWPPP NOTES

- 1. CONTRACTOR SHALL IMPLEMENT EROSION CONTROL AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPPP) PLANS TO KEEP ALL AND/OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER PIPES AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STREAM.
2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL, WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE PICKED UP AND BUCKED BACK INTO THE EXCAVATED AREA.
3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR 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 EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
- DISTURBED AREAS OF THE CONSTRUCTION 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 IS TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND/OR CULVERTS FOR UNSTRUCTURED DRAINAGE AT ALL TIMES. WHERE SOODINGS IS DISTURBED BY EXCAVATION OR BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SOODING. SLOPES 4:1 OR STEEPER, SHALL BE REPLACED BY BLOCK SOODING.

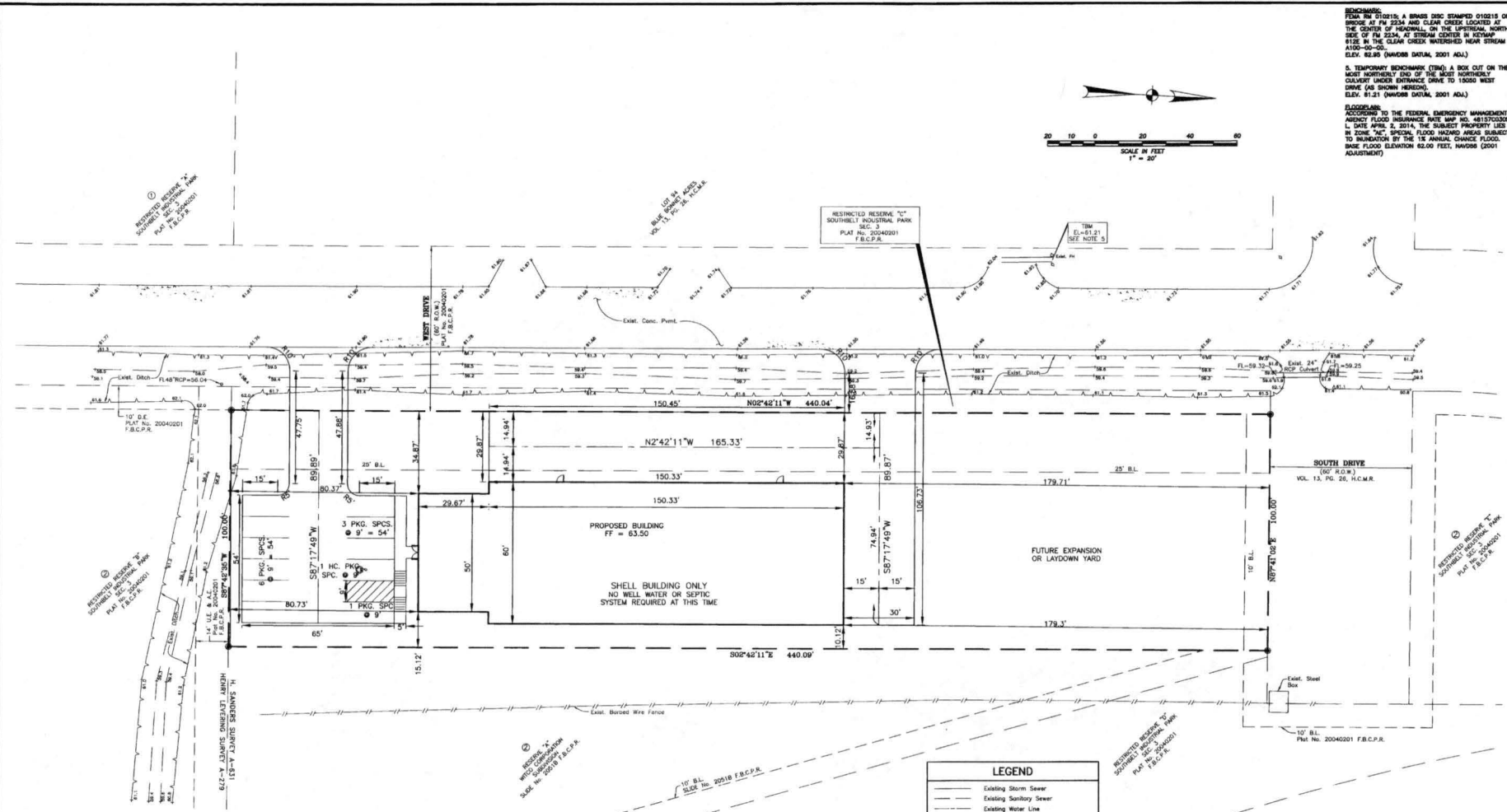
ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes terms like ALL BELL, ADVA EASEMENT, BACK TO BACK, BAY OF CURB, BASE LINE, BUILDING LINE, BLOW OFF VALVE, B.O.V., C.C., C.C.M.P., C.D.N., CONC., CONC., CONCR., D.E., D.I.P., E.P., END OF PAVEMENT, END OF PAVEMENT, EASEMENT, EASE, F.A., FIRE HYDRANT, G.V., GUTTER, H.W., H.W. MARK, H.U.E.L., HYDRAULIC GRADE LINE, HOT MIX ASPHALTIC COATING, H.M.A.C., I.P., INTERMEDIATE PRESSURE, L.A.R.E., L.A.R.E. BELL, M.H., MANHOLE, M.U.D., MUNICIPAL UTILITY DISTRICT, N/A, NOT APPLICABLE, NATURAL GROUND, ON CENTER, PERMANENT ACCESS EASEMENT, POINT OF CURVATURE, POINT OF COMPOUND CURVATURE, POINT OF INTERSECTION, PROPERTY LINE, PLASTIC, P.P., POWER FLOW, P.P.C., POINT OF REVERSE CURVATURE, POINT OF VARIANCE, P.U.D., PUBLIC UTILITY DISTRICT, P.V.C., PLUG VALVE, P.V.C., POLY-VINYL CHLORIDE, P.W.E., PAVED, R.C.P., REINFORCED CONCRETE PIPE, REISER, RCP, RIGHT-OF-WAY, SANDWICH, S.S.E., SANITARY SEWER EASEMENT, S.W.M.E., STORM SEWER, S.W.S.E., STORM SEWER EASEMENT, S.U.E.L., SMALL END BELL, S.W., SINGLE, T.C., TOP OF CURB, T.S.B., TAPPING SLEEVE AND VALVE, U.L.E., UTILITY EASEMENT, U.L.E., UTILITY LINE, U.L.E., WATER SERVICE ELEVATION, U.L.E., WATER SERVICE ELEVATION

APPROVED: [Signature] DEVELOPMENT COORDINATOR
DATE: 4/18/16
SEAL OF THE STATE OF TEXAS
STEPHEN R. MOORE
10997
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 08/31/17

DAWSON VAN ORDEN
GENERAL NOTES
FORT BEND COUNTY
SCOTT DRILLING
15006 WEST DRIVE
HOUSTON, TEXAS 77063
1.010 ACRES
DATE: May, 2015
SCALE: N.T.S.
DRAWN BY: A.S.
FINAL CHECK BY: S.S.L.
SCOTT DRILLING ~ 151.10
PRIVATE PLANS
C2

241-CORRE 15-1006-SCOTT DRILLING CAD PRIVATE VLS-13-1-DCP.dwg DATE: 07-2014-8:29am AMEE



BENCHMARKS:
 1. PERMITS 012015, A BENCH STAMPED 012015 ON BRIDGE AT FM 2234 AND CLEAR CREEK LOCATED AT THE CENTER OF HIGHWAY ON THE UPRIGHT, NORTH SIDE OF FM 2234, AT STREAM CENTER IN KEYMAP 8125 IN THE CLEAR CREEK WATERSHED NEAR STREAM A100-00-00. ELEV. 81.85 (DINWIDDIE DATUM, 2001 ADA).
 2. TEMPORARY BENCHMARK (TBM), A BOX CUT ON THE MOST NORTHERLY END OF THE MOST NORTHERLY CURVE UNDER ENTRANCE DRIVE TO 15000 WEST DRIVE (AS SHOWN HEREON). ELEV. 81.21 (DINWIDDIE DATUM, 2001 ADA).
FLOODING:
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP NO. 4817030001L, DATED APRIL 2, 2014, THE SUBJECT PROPERTY LIES IN ZONE X2, SPECIAL FLOOD HAZARD AREA SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. BASE FLOOD ELEVATION 83.00 FEET, WINDUP (2001 ADJUSTMENT).

- GENERAL CONSTRUCTION NOTES**
1. DIMENSION CONTROL PLAN PREPARED BY DAWSON VAN ORDEN ENGINEERS TO BE USED IN CONJUNCTION WITH THIS PLAN FOR LOCATING ALL IMPROVEMENTS.
 2. ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
 3. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION.
 4. THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
 5. CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
 6. CONTRACTOR TO VERIFY THAT ALL ADA AREAS COMPLY WITH MAXIMUM SLOPES OF 2% IN ALL DIRECTIONS.
 7. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 8. ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR PERSPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
 9. NO OUTDOOR LIGHTING IS INCLUDED IN SHELL BUILDING CONSTRUCTION.

LEGEND	
	Existing Storm Sewer
	Existing Sanitary Sewer
	Existing Water Line
	Existing Manhole
	Existing Fire Hydrant
	Existing Water Valve
	Existing Water Meter
	Existing Inlet
	Existing Power Pole
	Existing Clean Out
	Existing Natural Ground
	Existing Top of Curb
	Existing Outlet
	PROPOSED SANITARY SEWER
	PROPOSED WATER LINE
	PROPOSED STORM SEWER
	PROPOSED CLEANOUT
	PROPOSED TYPE 'A' INLET
	PROPOSED TYPE 'D' INLET
	PROPOSED JUNCTION BOX
	PROPOSED MANHOLE
	PROPOSED TYPE 'C' MANHOLE WITH GRATE TOP
	PROPOSED AREA DRAIN
	PROPOSED WATER METER W/ VAULT
	PROPOSED WATER METER W/ BOX
	PROPOSED IRRIGATION METER
	PROPOSED BACKFLOW PREVENTER

APPROVED: *Magic D*
 DEVELOPER/COORDINATOR
 DATE: 4/6/14



DAWSON VAN ORDEN
 CIVIL ENGINEERS & ARCHITECTS
 1500 WOODBRANCH PARKWAY, SUITE 100, HOUSTON, TEXAS 77057
 PHONE: 281.282.7500
 REGISTRATION NO. F-5334

DIMENSION CONTROL PLAN

DATE: May, 2015 SCALE: 1"=20'
 DRAWN BY: A.E. FINAL CHECK BY: J.D.

FORT BEND COUNTY
SCOTT DRILLING
 15005 WEST DRIVE
 HOUSTON, TEXAS 77053
 1.010 ACRES

C3

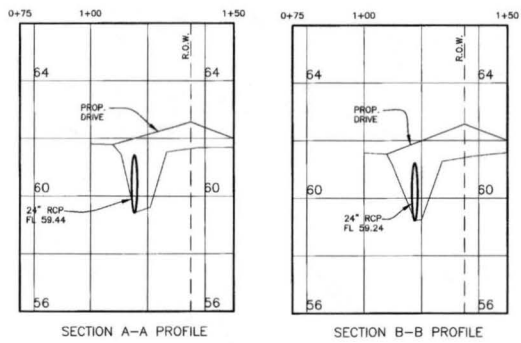
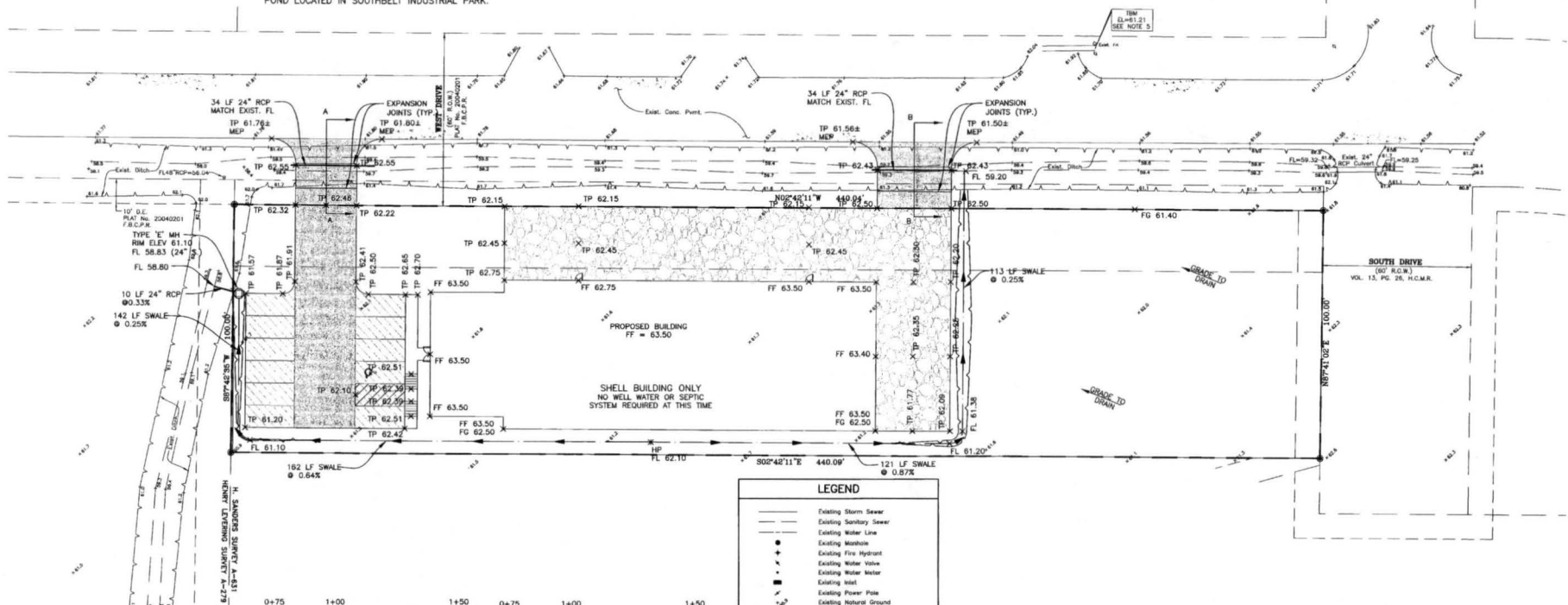
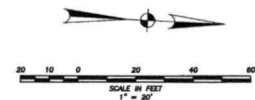
DETENTION SUMMARY	
AREA SERVICED:	1.01 ACRES
DETENTION STORAGE RATE:	0.78 ACRE- FEET
DETENTION STORAGE VOLUME REQUIRED:	0.79 ACRE- FEET
DETENTION STORAGE VOLUME PROVIDED:	0.79 ACRE- FEET

FLOODPLAIN MITIGATION SUMMARY
 FILL WITHIN 100-YEAR FLOODPLAIN = 46,872 C.F.
 CUT WITHIN 100-YEAR FLOODPLAIN = 2,706 C.F.
 MITIGATION REQUIRED = 44,166 C.F.
 TOTAL POND VOLUME REQUIRED = 44,166 + 34,412 = 78,578 C.F.*
 (DETENTION AND MITIGATION)

* ADDITIONAL VOLUME TO BE REMOVED FROM EXISTING OFFSITE POND LOCATED IN SOUTHBELT INDUSTRIAL PARK.

BENCHMARKS:
 ITEM 1012215, A BRASS DISC STAMPED 010215, ON BRIDGE AT FM 2254 AND CLEAR CREEK LOCATED AT THE CENTER OF ROADWAY, ON THE UPRIVER NORTH SIDE OF FM 2254, AT STREAM CENTER IN KETCHAP SITE ON THE CLEAR CREEK WATERSHED NEAR STREAM A130-09-02.
 ELEV. 82.88 (UNLESS OTHERWISE NOTED, 2001 ADA)
 5. TEMPORARY BENCHMARK (TBM) A BOX CUT ON THE MOST NORTHERLY END OF THE MOST WORTHERLY CURB CUT UNDER DISTANCE DRIVE TO 10000 WEST DRIVE (AS SHOWN HEREON).
 ELEV. 81.51 (UNLESS OTHERWISE NOTED, 2001 ADA)

FLOODPLAIN:
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP NO. 48157C0001 L, DATE APRIL 2, 2014, THE SUBJECT PROPERTY LIES IN ZONE "X2", SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. BASE FLOOD ELEVATION 82.00 FEET, HAZARD (2001 ADJUSTMENT)



LEGEND	
	Existing Storm Sewer
	Existing Sanitary Sewer
	Existing Water Line
	Existing Manhole
	Existing Fire Hydrant
	Existing Water Valve
	Existing Water Meter
	Existing Inlet
	Existing Power Pole
	Existing Natural Ground
	Existing Top of Curb
	Existing Outlet
	M.E.P. MATCH EXISTING PAVEMENT
	PROPOSED TOP OF CURB
	PROPOSED TOP OF GRADE
	PROPOSED HIGH POINT
	PROPOSED TOP OF PAVEMENT
	PROPOSED TOP OF GRATE
	PROPOSED TOP OF WALK
	PROPOSED GRADE
	PROPOSED CURB
	PROPOSED STORM SEWER
	PROPOSED TYPE "A" INLET
	PROPOSED TYPE "D" INLET
	PROPOSED MANHOLE "T" INLET
	PROPOSED TYPE "C" MH WITH GRATE TOP
	GRADE TO DRAIN
	5' CONCRETE PAVEMENT (SEE DETAIL SHEET C8)
	8' CONCRETE PAVEMENT (SEE DETAIL SHEET C8)
	CRUSHED STONE

- GENERAL CONSTRUCTION NOTES**
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 - CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
 - CONTRACTOR TO VERIFY THAT ALL ADA AREAS COMPLY WITH MAXIMUM SLOPES OF 2% IN ALL DIRECTIONS.
 - ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR PERSPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
 - NO OUTDOOR LIGHTING IS INCLUDED IN SHELL BUILDING CONSTRUCTION.

APPROVED: *M. J. ...*
 DEVELOPMENT COORDINATOR
 DATE: 4/15/16



DAWSON VAN ORDEN
 CIVIL & STRUCTURAL - MEP & TECHNOLOGY
 15055 WEST DRIVE
 HOUSTON, TEXAS 77053
 1.0110 ACRES

REGISTRATION NO. F-5234

SCOTT DRILLING ~ 15.130

DATE: May, 2015
 SCALE: 1" = 20'
 SHEET NO. 15

FINAL CHECK BY: S.A.

PAVING, GRADING AND DRAINAGE PLAN

FORT BEND COUNTY
 SCOTT DRILLING
 15055 WEST DRIVE
 HOUSTON, TEXAS 77053
 1.0110 ACRES

C4

2.1-ONE 15.130-SCOTT DRILLING CAD DRAWING 15.130 GRD.DWG DATE: 02-2015-4:29pm AME

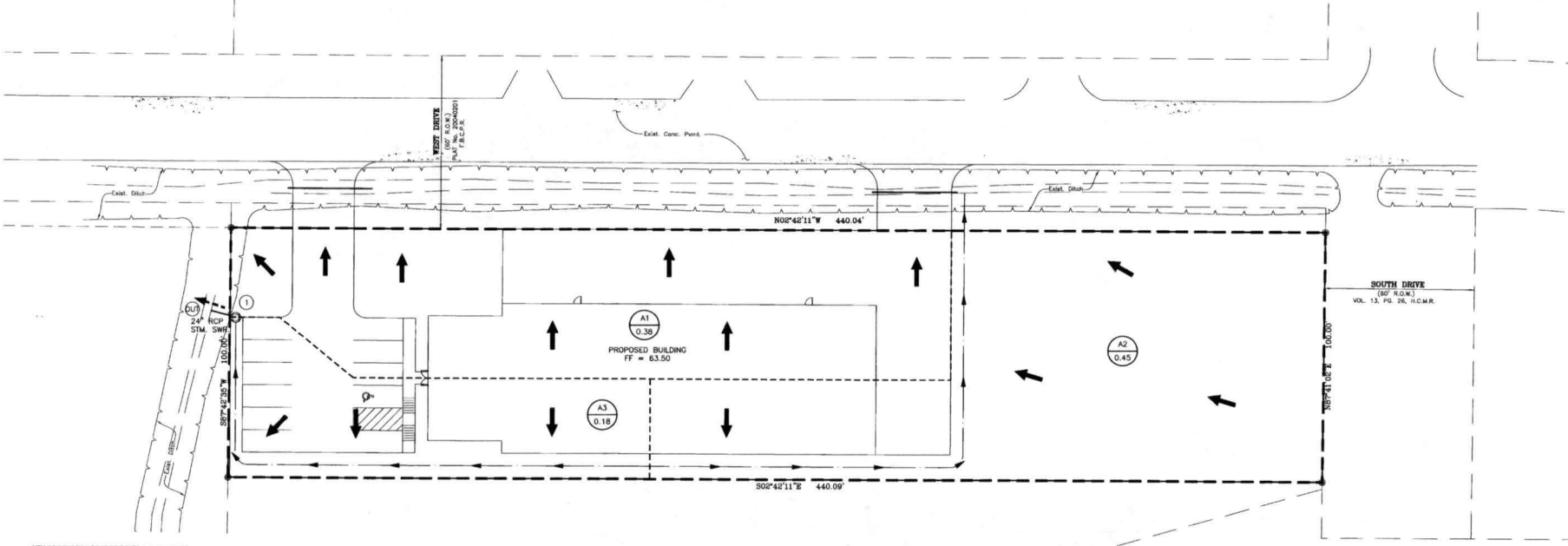
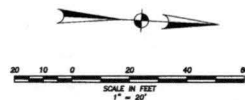
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SCOTT DRILLING ~ 15.130
PRIVATE PLANS

BENCHMARK:
FROM FM 2234, A BRASS DISC STAMPED 010215 ON BRIDGE AT FM 2234 AND CLEAR CREEK LOCATED AT THE CENTER OF FURNACE, ON THE UPSTREAM NORTH SIDE OF FM 2234, AT STREAM CENTER IN REMAP FILE IN THE CLEAR CREEK WATERSHED NEAR STREAM A100-00-00.
ELEV. 82.19 (DWARDS DATUM, 2001 ADJ.)

5. TEMPORARY BENCHMARK (TBM): A BOX CUT ON THE MOST NORTHERLY END OF THE MOST NORTHERLY CLAYBAY UNDER ENTRANCE DRIVE TO 10500 WEST DRIVE (AS SHOWN HEREON).
ELEV. 81.21 (DWARDS DATUM, 2001 ADJ.)

FLOODPLAIN:
ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP NO. 49187C0018 L, DATED APRIL 2, 2014, THE SUBJECT PROPERTY LIES IN ZONE "X1", SPECIAL FLOOD HAZARD AREA SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. BASE FLOOD ELEVATION 82.00 FEET; WADSWORTH (2001 ADJUSTMENT)



CITY OF HOUSTON ROADSIDE DITCH WORKSHEET

Project: SCOTT DRILLING
Job No.: 15.13
System: "A"
By: JS
Checked By:
Date: MAY, 2015

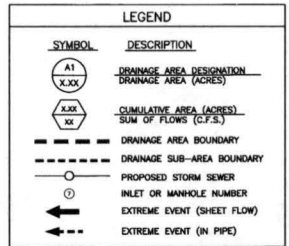
100 YEAR FREQUENCY
I=125.4 g#21.8 g#0.7500

Station to Station	Run	Slope %	Date	Time	To (minutes)	I (inches)	Ditch Time (minutes)	Reach Length (feet)	Diameter or Rise (inches)	Span (feet)	Slope %	Manning's "n"	Design Capacity (CFS)	Design Velocity (FPM)	Ditch Section			Depth (feet)	Design Velocity (FPM)	UDF		
															P.S.	B.O.	E.S.					
SCOTT DRILLING																						
M		0.25	0.38	0.38	0.80	23.43	7.18	8.83	295	0.75	2.18	3.00	0.90	3.00	0.245	1.00	3.00	1.81	8.478785			
M		0.95	0.45	0.45	0.80	23.88	7.18	4.28	204	1.18	2.68	3.00	0.90	3.00	0.245	0.95	3.00	1.78	8.047385			
M		1.00	0.18	0.18	0.80	22.88	7.18	15.71	234	1.08	3.00	3.00	0.90	3.00	0.245	1.00	7.18	3.38	8.478785			

100 YEAR STORM SEWER CALCULATIONS
SCOTT DRILLING
PREPARED ON: MAY, 2015

JOB NO.: 15.130

Manhole From	Manhole To	Delta Area (Acres)	Runoff Coefficient C	Sum of C x A	Intensity I (in/hr)	Sum of Flows (CFS)	Time of Concentration (Minutes)	Reach Length (Feet)	Diameter or Rise (Inches)	Span (Inches)	Slope %	Manning's "n"	Design Capacity (CFS)	Design Velocity (FPM)	
1	OUT	0.18	0.18	0.80	0.14	100	7.32	1.05	22.39	10	12	0.44	0.013	2.36	3.01



GENERAL CONSTRUCTION NOTES

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- CONTRACTOR TO VERIFY THAT ALL ADA AREAS COMPLY WITH MAXIMUM SLOPES OF 2% IN ALL DIRECTIONS.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR PERSPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.
- NO OUTDOOR LIGHTING IS INCLUDED IN SHELL BUILDING CONSTRUCTION.

APPROVED: *Maggie D*
DEVELOPMENT COORDINATOR
DATE: 4/5/16

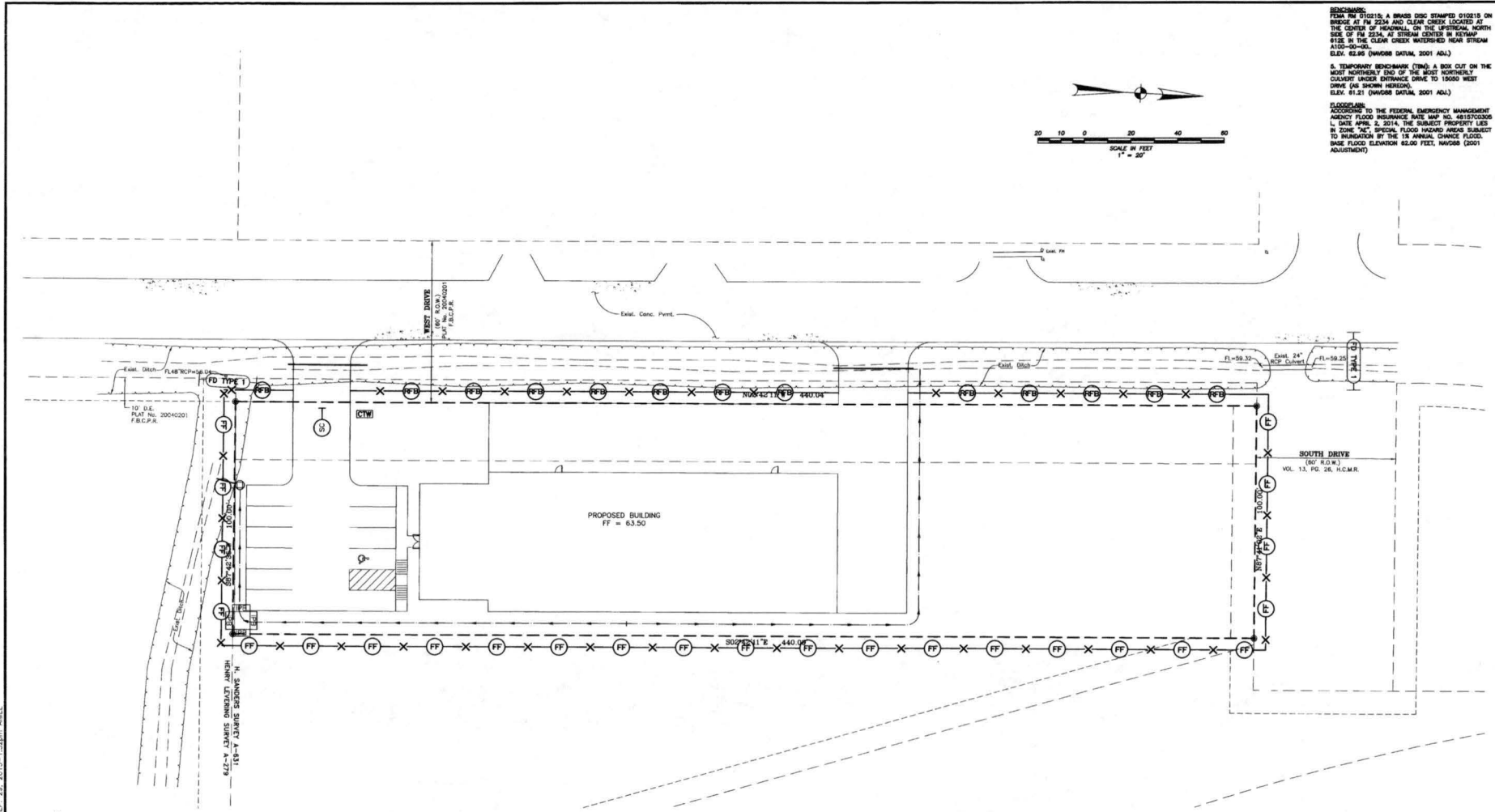


DAWSON VAN ORDEN
CIVIL STRUCTURAL & MEP TECHNOLOGY
1300 WOOD BRANCH PARK DR. STE 210, HOUSTON TX 77079
713.461.1000
www.dvo.com

DRAINAGE AREA MAP
DATE: May, 2015
SCALE: 1"=20'
SHEET: THREE OF ONE

FORT BEND COUNTY
SCOTT DRILLING
16508 WEST PARK
HOUSTON, TEXAS 77063
1.010 ACRES

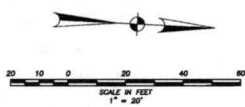
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BENCHMARK:
 FROM FM 212115, A BRASS DISC STAMPED 010215 ON BRIDGE AT FM 2234 AND CLEAR CREEK LOCATED AT THE CENTER OF HEADWALL, ON THE WESTERN NORTH SIDE OF FM 2234, AT STREAM CENTER IN KEYMAP #132. IN THE CLEAR CREEK INTERSECT NEAR STREAM ELEV. 82.65 (NAVD85 DATUM, 2001 ADJ.)

5. TEMPORARY BENCHMARK (TBM): A BOX CUT ON THE WEST NORTHERLY END OF THE MOST NORTHERLY CULVERT UNDER ENTRANCE DRIVE TO 15000 WEST DRIVE (AS SHOWN HEREON). ELEV. 81.21 (NAVD85 DATUM, 2001 ADJ.)

FLOODPLAIN:
 ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP NO. 48152C0305 DATED APRIL 2, 2014, THE SUBJECT PROPERTY LIES IN ZONE "X2", SPECIAL FLOOD HAZARD AREAS SUBJECT TO MODERATION BY THE 1% ANNUAL CHANCE FLOOD. BASE FLOOD ELEVATION 82.00 FEET, NAVD85 (2001 ADJUSTMENT)



LEGEND	
SYMBOL	DESCRIPTION
X (FFB) X	REINFORCED FILTER FABRIC BARRIER
X (FF) X	FILTER FABRIC FENCE
(SC)	STABILIZED CONSTRUCTION ACCESS
(IB)	INLET PROTECTION BARRIER
(CTW)	CONCRETE TRUCK WASHOUT AREA
(FD TYPE 1)	FILTER DAM

GENERAL CONSTRUCTION NOTES

- DIMENSION CONTROL PLAN PREPARED BY DAWSON VAN ORDEN ENGINEERS TO BE USED IN CONJUNCTION WITH THIS PLAN FOR LOCATING ALL IMPROVEMENTS.
- ALL UNDERGROUND UTILITIES SHOWN ARE NOT GUARANTEED TO BE COMPLETE OR DEFINITE, BUT WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE.
- CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION.
- THE LOCATION OF ALL UTILITIES PRESENTED ON THESE DRAWINGS IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS REQUIRED PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR TO VERIFY THAT ALL ADA AREAS COMPLY WITH MAXIMUM SLOPES OF 2% IN ALL DIRECTIONS.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE PERPENDICULAR OR PARALLEL TO THEIR RESPECTIVE PROPERTY LINES UNLESS OTHERWISE NOTED.

APPROVED: *Max J. D...*
 DEVELOPMENT COORDINATOR
 DATE: 4/15/16



DAWSON VAN ORDEN
 CIVIL + STRUCTURAL + MEP + TECHNOLOGY
 15055 WEST DRIVE
 HOUSTON, TEXAS 77063
 WWW.DAWSONVANORDEN.COM
 REGISTRATION NO. F-5834

POLLUTION PREVENTION PLAN

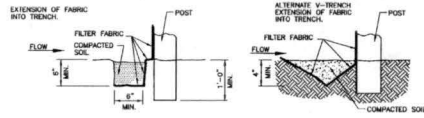
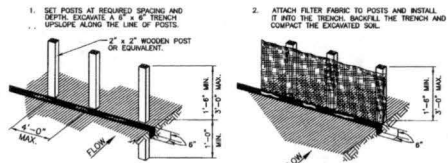
DATE: MAY, 2015 SCALE: 1"=20'
 DRAWN BY: A.S. PINK CHECK BY: S.M.

FORT BEND COUNTY
SCOTT DRILLING
 15055 WEST DRIVE
 HOUSTON, TEXAS 77063
 1.010 ACRES

C6

SCOTT DRILLING - 15130 PRIVATE PLANS

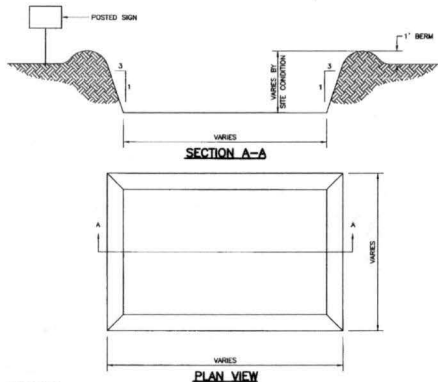
PLAN - 04/15/15 - 1530 - SCOTT DRILLING CO. (REVISED) 15.130 - MC - 2015 - 1468mm - JAKE



GENERAL NOTES:

1. SET POSTS AT 4-FOOT MAXIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE.

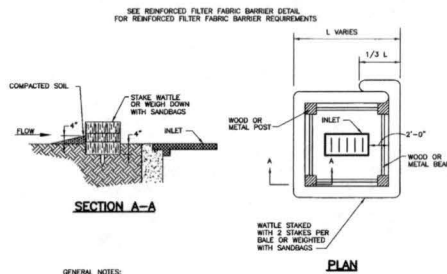
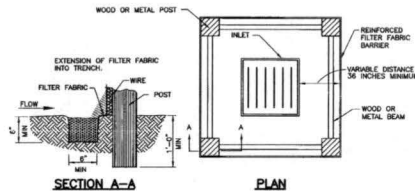
FILTER FABRIC FENCE



GENERAL NOTES:

1. POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NO WHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DEPOSITED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASH OUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PRODUCT SPECIFICATIONS.
4. CONCRETE WASH OUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASH-OUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.

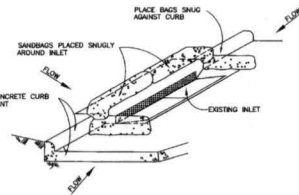
CONCRETE TRUCK WASHOUT AREA



GENERAL NOTES:

1. TYPICALLY STRAW BALES ARE NOT RECOMMENDED FOR INLET PROTECTION BARRIERS.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

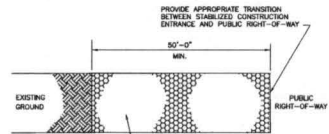
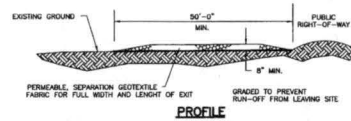


SEE CONSTRUCTION HANDBOOK SECTION 4.3.4 FOR SIZING DESIGN AND MAINTENANCE REQUIREMENTS

GENERAL NOTES:

1. BAGS OR WATTLES CAN BE USED FOR THIS APPLICATION.
2. PROVIDE WOVEN OR UNKNOWN GEOTEXTILE FILTER FABRIC FOR BAGS.
3. PROVIDE COARSE SAND AND AGGREGATE MIX FOR FILL MATERIAL FOR BAGS. USE ONLY PARTICLES CONSISTING OF CLEAN, HARD, DUMBLE MATERIALS FREE FROM ADHERENT COATINGS, SILT, ALKALI, DIRT, CLAY, LOAM, SHALE, SOFT OR FLAKY MATERIALS, OR ORGANIC AND HAZARDOUS MATTER.
4. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.

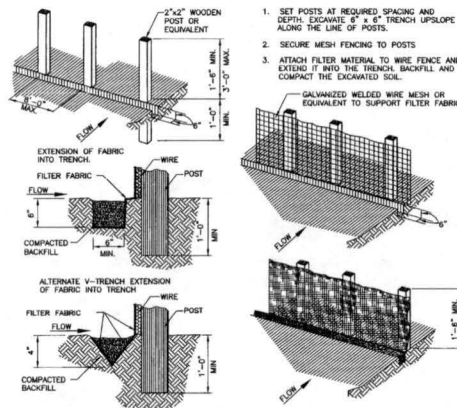
INLET PROTECTION BARRIERS FOR STAGE II INLETS



GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL PORTS OF BUSINESS OR COURSES.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WOOD OR LEATHER STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRAINING SURFACE.
7. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE:
 - CEMENT STABILIZED SOIL, COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE, OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.
 - WOOD MATS: ONE OR OTHER HARDWOOD THICKER PLACED EDGE TO EDGE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 8 INCHES.
 - STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.

STABILIZED CONSTRUCTION ACCESS



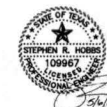
GENERAL NOTES:

1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR THE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.

REINFORCED FILTER FABRIC BARRIER



APPROVED: *Maggie*
DEVELOPMENT COORDINATOR
DATE: 4/25/16



SCOTT DRILLING 15.130

DAWSON VAN ORDEN
CIVIL & STRUCTURAL & ALIEN-TECHNOLOGY
1250 WOOD BRANCH PARK DR. STE. 210, HOUSTON TX 77079
409-261-2973 FAX 409-261-2970
REGISTRATION NO. F-258

POLLUTION PREVENTION DETAILS

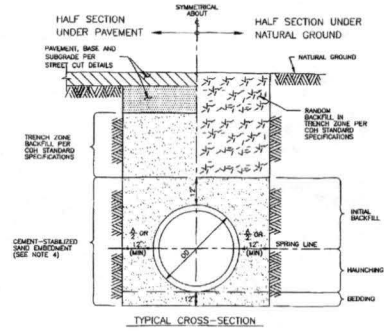
DATE: MAY, 2015 SCALE: N.T.S.
DRAWN BY: J.S. FINAL CHECK BY: S.H.

FORT BEND COUNTY
SCOTT DRILLING
15055 WEST DRIVE
HOUSTON, TEXAS 77055
1.010 ACRES

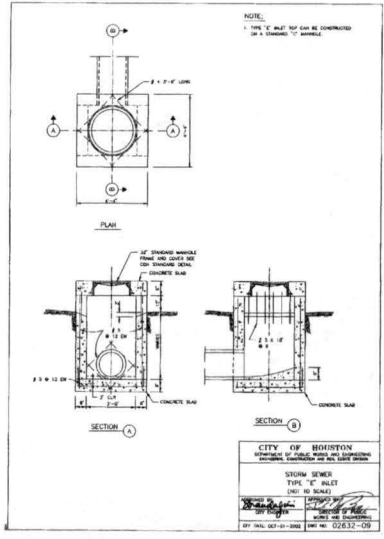
C7

- NOTES:**
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS PER CITY STANDARDS. SEE CITY STANDARDS SPECIFICATIONS FOR REQUIREMENTS IN OTHER CONDITIONS.
 2. MAX TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "X" FOR THE SOILING PIPE SIZE:

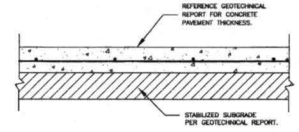
NOMINAL PIPE SIZE	"X"
18" TO 30"	24"
OVER 30"	36"
 3. MAX TRENCH WIDTH SHALL BE NOT GREATER THAN 8X TRENCH DEPTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
 4. ALTERNATE EMBANKMENT BACKFILL MATERIALS FOR FORCE MAINS MAY BE ALLOWED. SEE CITY STANDARDS SPECIFICATIONS.



STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH
N.T.S.



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND UTILITIES
STORM SEWER
TYPE 'E' INLET
0201-00-0000
BY: [Signature] DATE: 4/15/16
BY: [Signature] DATE: 02/03/16



REINFORCING TABLE

CONC. THK.	MIN. REIN.	SPACING
4"	#3	18"
5"	#3	18"
6"	#3	18"

CONCRETE PAVEMENT SECTION
N.T.S.

DAWSON VAN ORDEN
CIVIL & STRUCTURAL ENGINEERING TECHNOLOGY
1520 WOODBRANCH PARK DR. STE 210, HOUSTON TX 77059
PHONE: 281.292.7500
REGISTRATION NO. F-6234

MISCELLANEOUS DETAILS

DATE: May, 2015 SCALE: N.T.S.
DRAWN BY: J.S. FINAL CHECK BY: S.J.

FORT BEND COUNTY
SCOTT DRILLING
15065 WEST PRIME
HOUSTON, TEXAS 77063
1.0110 ACRES

APPROVED: [Signature]
DEVELOPMENT COORDINATOR
DATE: 4/15/16

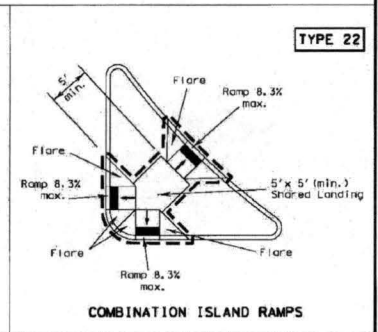
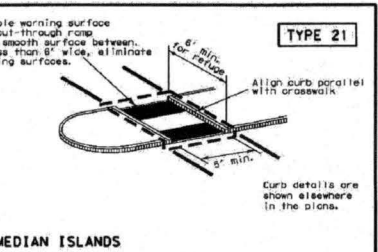
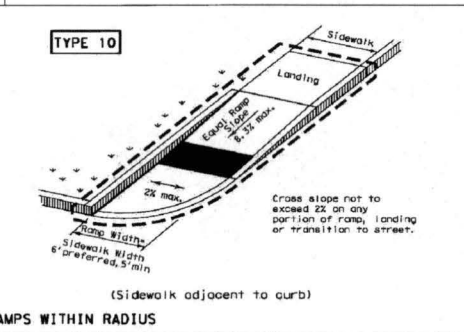
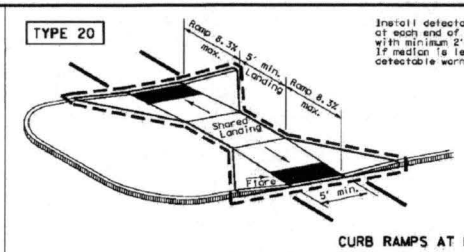
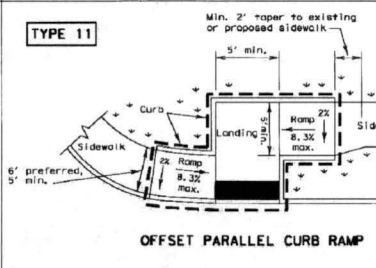
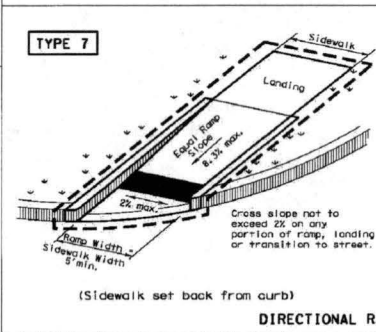
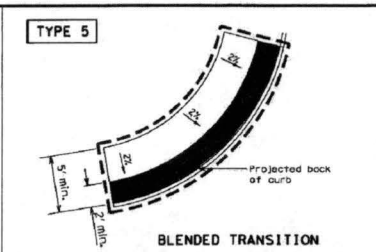
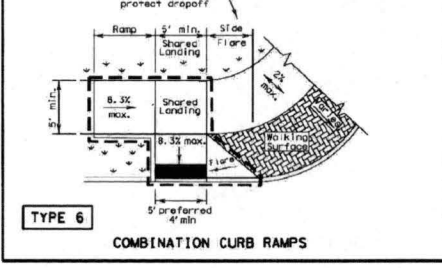
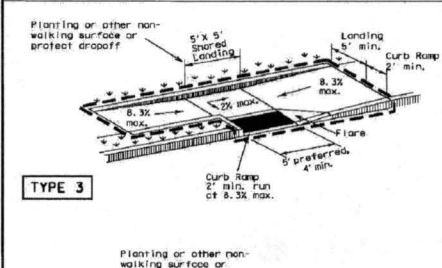
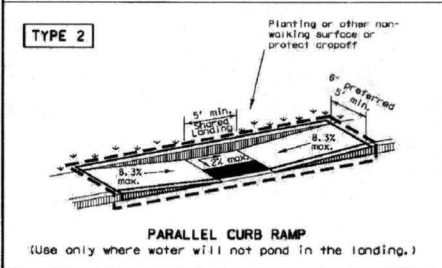
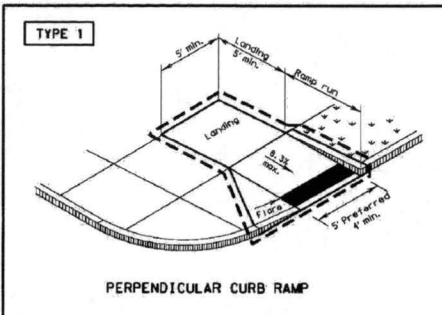


Z:\1-CAD\15-130-SCOTT DRILLING\CAD\PRIVATE\15-130-DRLS.DWG, SEP. 29, 2015, 1:47PM, AMEC

SCOTT DRILLING ~ 15.130 PRIVATE PLANS

PLAN - 004115 - 1.000 - SCOTT DRILLING CAN PRIVATE 15.130 - 1000' - 1.000 - 25' - 2015 - 150mm - AMFE

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NOTES / LEGEND:
See General Notes on sheet 2 of 4 for more information.
 - v - v - v - Denotes planting or non-walking surface not part of pedestrian circulation path.
 - - - - Ramp Limits of Payment
 - ■ - Detectable Warning Surface

SHEET 1 OF 4

PEDESTRIAN FACILITIES CURB RAMPS

PED-12A

FILED: ped12a.dgn	DATE: 04/16/16	BY: [Signature]	CHECKED: [Signature]	DATE: 04/16/16
DESIGNED: [Signature]	DRAWN: [Signature]	CHECKED: [Signature]	DATE: 04/16/16	

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 4/16/16



DAWSON VAN ORDEN
CIVIL & STRUCTURAL & MEP & TECHNOLOGY
1206 WOOD BRANCH PARK DR, STE 210, HOUSTON TX 77079
PHONE: 281-283-2000
FAX: 281-283-2000
REGISTRATION NO. F-4534

PEDESTRIAN FACILITIES CURB RAMP (PED-12A) SHEET 1

DATE: MAY, 2015 SCALE: N.T.S. FINN. CHECK BY: [Signature]

FORT BEND COUNTY
SCOTT DRILLING
15055 WEST DRIVE
HOUSTON, TEXAS 77050
1.010 ACRES

C9

SCOTT DRILLING 15.130

PRIVATE PLANS

24-1-2016 15:13:06-SCOTT DRILLING CAD PRIVATE US 136-73007-22.DWG -SHEET 29- 2016-11-15 11:01 AM ET

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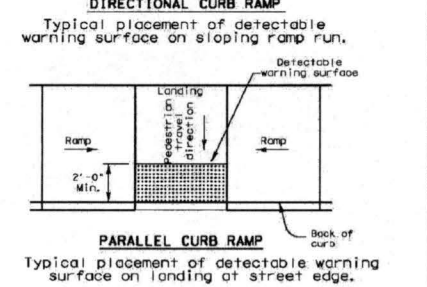
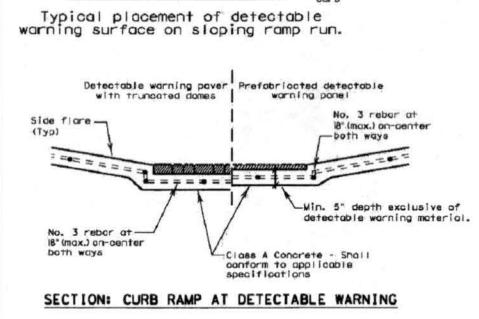
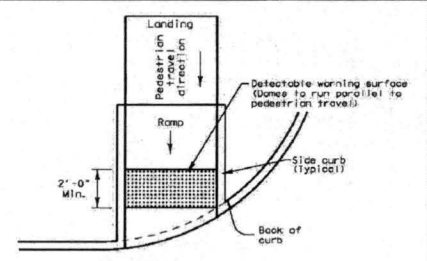
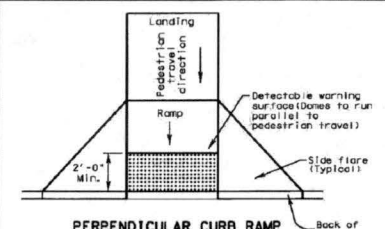
General Notes

Curb Ramps

1. Install a curb ramp or blended transition at each pedestrian street crossing.
2. All slopes shown are maximum allowable. Lesser slopes that will still drain properly should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
3. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 5' sidewalk width is desirable. Where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances. 5' x 5' passing areas at intervals not to exceed 200' are required.
4. Landings shall be 5' x 5' minimum with a maximum 2% slope in any direction.
5. Maneuvering space at the bottom of curb ramps shall be a minimum of 4' x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
6. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
7. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be sloped at 10% maximum, measured parallel to the curb. Returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, or otherwise protected.
8. Additional information on curb ramp location, design, light reflective value and texture may be found in the current edition of the Texas Accessibility Standards (TAS) and 16 TAC 68.102.
9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them.
10. Small channelization islands, which do not provide a minimum 5' x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
11. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed.
12. Handrails are not required on curb ramps. Provide curb ramps wherever an accessible route crosses (penetrates) a curb.
13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
15. Provide a smooth transition where the curb ramps connect to the street.
16. Curbs shown on sheet 1 within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
17. Existing features that comply with TAS may remain in place unless otherwise shown on the plans.

Detectable Warning Material

18. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with Section 705 of the TAS. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved coat-in-place dark brown or dark red detectable warning surface material adjacent to unpolished concrete, unless specified elsewhere in the plans.
19. Detectable Warning Materials must meet TxDOT Departmental Materials Specification DMS 4350 and be listed on the Material Producer List. Install products in accordance with manufacturer's specifications.
20. Detectable warning surfaces must be slip resistant and not allow water to accumulate.
21. Detectable warning surfaces shall be a minimum of 24" in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
22. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb. Align the rows of domes to be perpendicular to the grade break between the ramp run and the street. Detectable warning surfaces may be curved along the corner radius.
23. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.



DETECTABLE WARNINGS

Detectable Warning Pavers

24. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. Lay in a two by two unit basket weave pattern or as directed.
25. Lay full-size units first followed by closure units consisting of at least 25 percent of a full unit. Cut detectable warning paver units using a power saw.

Sidewalks

26. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within one or more reach ranges specified in TAS 308.
27. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
28. Street grades and cross slopes shall be as shown elsewhere in the plans.
29. Changes in level greater than 1/4 inch are not permitted.
30. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than 5% must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with TAS 505.
31. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
32. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".
33. Sidewalk details are shown elsewhere in the plans.

SHEET 2 OF 4

PEDESTRIAN FACILITIES CURB RAMPS

PED-12A

FILE: ped12a.dgn	DATE: 06/13/2012	BY: [Signature]	APP: [Signature]
DATE: 06/13/2012	DATE: 06/13/2012	DATE: 06/13/2012	DATE: 06/13/2012
DATE: 06/13/2012	DATE: 06/13/2012	DATE: 06/13/2012	DATE: 06/13/2012

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR
DATE: 4/5/16



DAWSON VAN ORDEN
CIVIL STRUCTURAL - MEP - TECHNOLOGY
15008 WEST DRIVE HOUSTON, TEXAS 77063
OFFICE: 281.383.2800
REGISTRATION NO. F-284

PEDESTRIAN FACILITIES CURB RAMP (PED-12A) SHEET 2

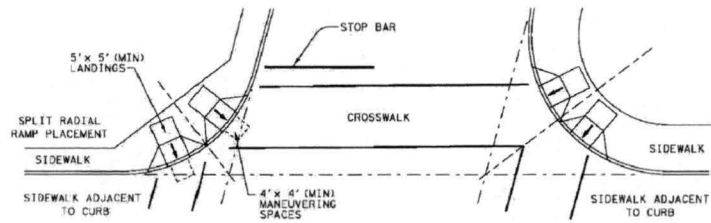
DATE: May, 2015 SCALE: N.T.S. FINAL CHECK BY: S.S.L.
DRAWN BY: A.S.

FORT BEND COUNTY
SCOTT DRILLING
15008 WEST DRIVE
HOUSTON, TEXAS 77063
1.010 ACRES

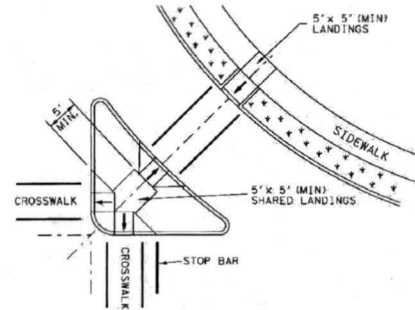
C10

SCOTT DRILLING - 15.1.15.10
PRIVATE PLANS

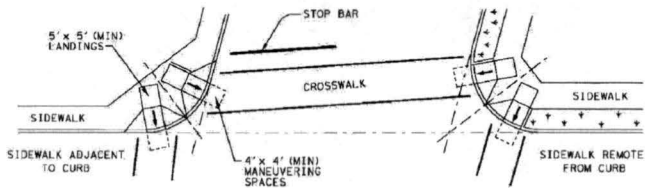
DISCLAIMER: This plan is prepared by the engineer for the project and is not to be used for any other project. The engineer is not responsible for any damage resulting from the use of this plan for any other project or for any other use of this plan.



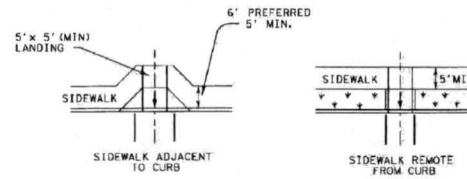
SKEWED INTERSECTION WITH "LARGE" RADIUS



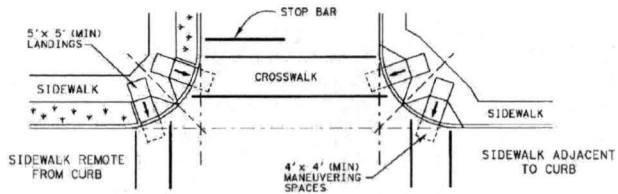
AT INTERSECTION
W/FREE RIGHT TURN & ISLAND



SKEWED INTERSECTION WITH "SMALL" RADIUS



MID-BLOCK PLACEMENT
PERPENDICULAR RAMPS



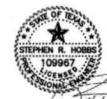
NORMAL INTERSECTION WITH "SMALL" RADIUS

TYPICAL CROSSING LAYOUTS

SHEET 4 OF 4

		Design Division Standard	
PEDESTRIAN FACILITIES CURB RAMPS			
PED-12A			
FILED: 08/12/12: 001	DATE: 08/12/12	BY: [Signature]	PROJECT: [Blank]
DATE: 08/12/12	BY: [Signature]	PROJECT: [Blank]	PROJECT: [Blank]
DATE: 08/12/12	BY: [Signature]	PROJECT: [Blank]	PROJECT: [Blank]

APPROVED: *Maxi De...*
DEVELOPMENT COORDINATOR
DATE: 4/15/12



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PEDESTRIAN FACILITIES CURB
RAMP (PED-12A) SHEET 4
DATE: May, 2015
SCALE: N.T.S.
DRAWN BY: A.S.
FINAL CHECK BY: S.S.L.

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C12

2.11-CRM-VS-130C-SCOTT DRILLING CAD/PRIVATE VS-130-TR005-4.DWG SEP-25-2015-1:55pm AMME

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