



**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

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

☐

Right of Way Permit

☒

Commercial Driveway Permit

Permit No: 2018-20482

Applicant: Sundance Construction

Job Location Site: 4818 Waterview Town Center Drive, Richmond, TX 77406

Bond No. **Date of Bond:** 8/2/2018 **Amount:** \$50,000.00

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 inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

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.
4. This permit applies to work performed within right-of-ways owned and maintained by Fort Bend County only, and it is the responsibility of the applicant to acquire all other necessary permits.

On this 6th day of November, 2018, 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.

Signature

Presented to Commissioners Court and approved.

By: Sean Eglinton

County Engineer

Date Recorded 11-13-2018

Comm. Court No. 12N

N/A

Clerk of Commissioners Court

By:

Drainage District Engineer/Manager

By: Ronda Willis

Deputy



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

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

- ☐ Right of Way Permit
☒ Commercial Driveway Permit

Permit No: 2018-20482

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:

- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | a. Name of road, street, and/or drainage ditch affected. |
| <input checked="" type="checkbox"/> | b. Vicinity map showing course of directions |
| <input checked="" type="checkbox"/> | c. Plans and specifications |

(2) BOND:

- | | | | |
|-------------------------------------|--|---------------------|---------------------|
| <input type="checkbox"/> | County Attorney, approval when applicable. | | |
| <input checked="" type="checkbox"/> | Perpetual bond currently posted. | Bond No: [REDACTED] | Amount: \$50,000.00 |
| <input type="checkbox"/> | Performance bond submitted. | Bond No: _____ | Amount: _____ |
| <input type="checkbox"/> | 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.



Permit Administrator

10/29/2018

Date

FORT BEND COUNTY MUNICIPAL UTILITY DISTRICT NO. 143
FORT BEND COUNTY, TEXAS

CONSTRUCTION PLANS FOR
**HARLEM ROAD
TURN LANES**

TO SERVE

**WATERVIEW ESTATES
SECTION 2 & 3
CITY OF HOUSTON E.T.J.**

JOB NO. 2145-2119

DATE : APRIL 2017

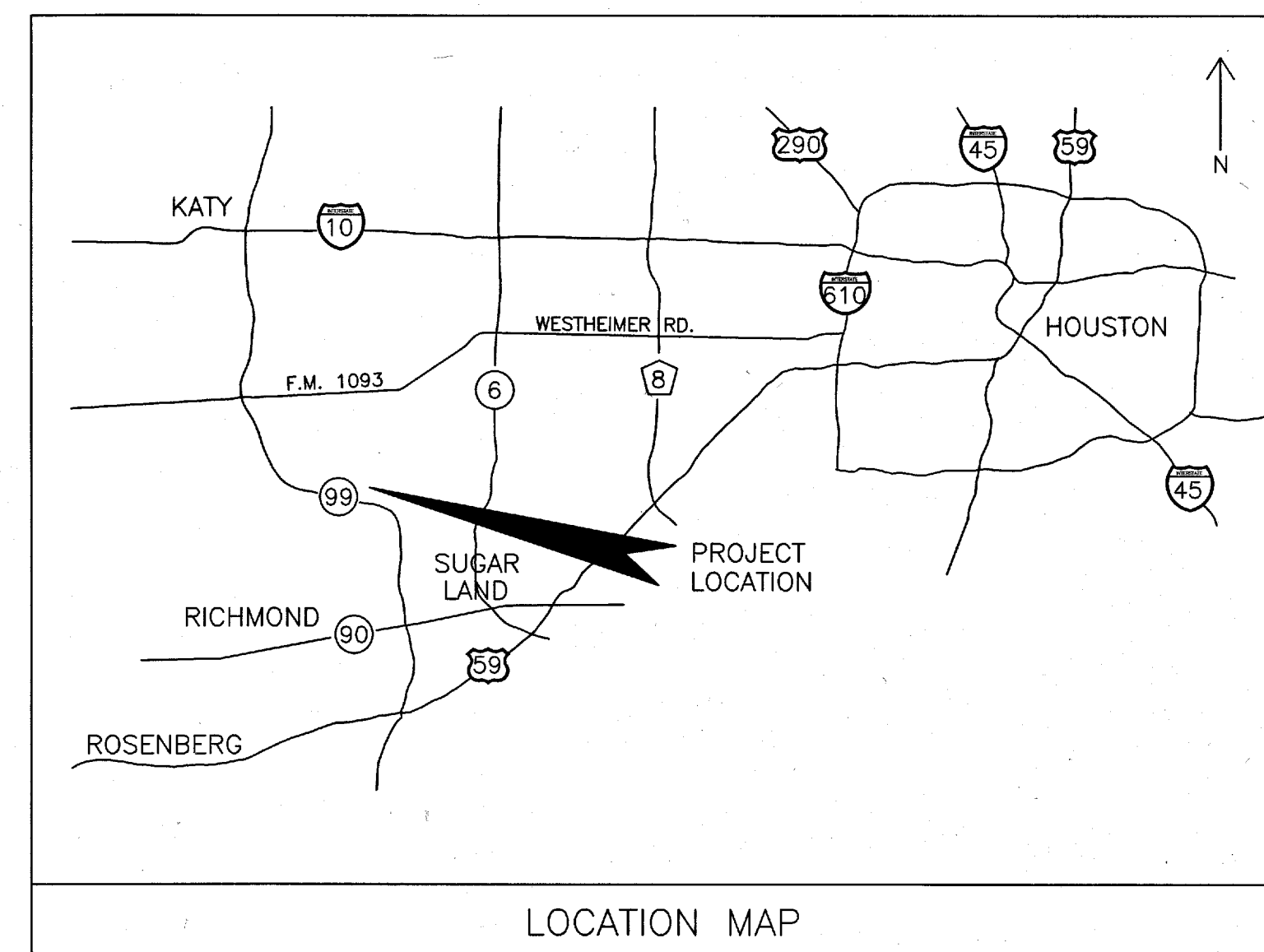
NOTES

1. SUBJECT TRACT IS LOCATED IN ZONE "X" UNSHADED, AREA DETERMINED TO BE OUTSIDE THE 500 YEAR FLOODPLAIN, PER FEMA MAP 48157C0140L DATED APRIL 2, 2014.

RECORD DRAWING

I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS

BY _____ DATE _____
TITLE _____



LOCATION MAP

APPROVED FOR CONSTRUCTION

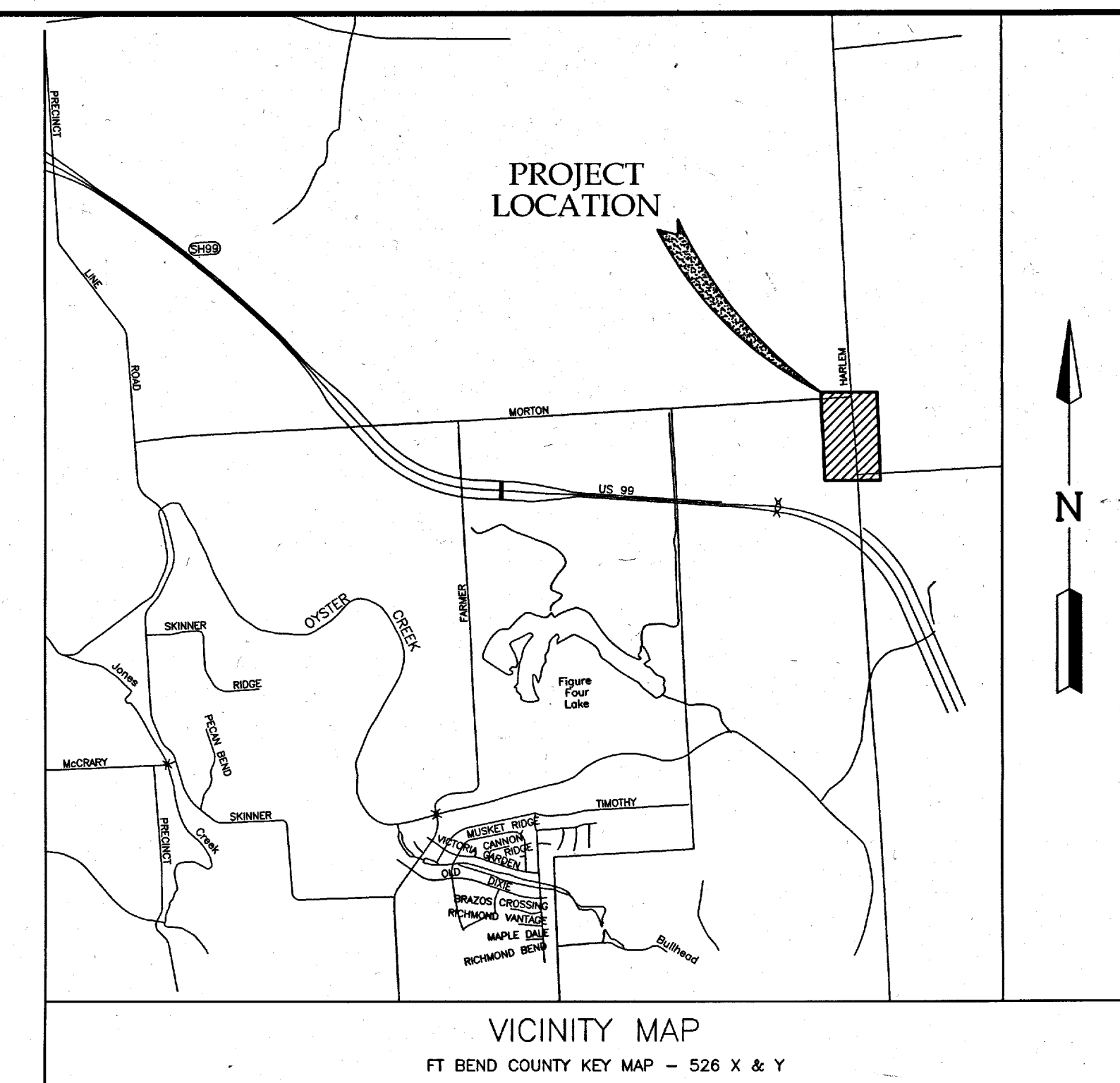
BY _____ DATE _____

DEVELOPER:
99 GRAND MISSION, LLC.
5850 SAN FELIPE, SUITE 490
HOUSTON, TX 77057
(713) 782-9000

DEDEN SERVICES, LLC

CIVIL ENGINEERING
Texas Registered Engineering Firm F-10971

9328 WESTVIEW
HOUSTON, TX. 77055
(713) 461-8822
FAX (713) 461-2671



SHEET INDEX

1. COVER SHEET
2. GENERAL CONSTRUCTION NOTES
3. OVERALL LAYOUT
4. STORM WATER POLLUTION PREVENTION PLAN

PLAN & PROFILE

5. HARLEM ROAD TURN LANES 1 STA. 0+00 TO 7+00
6. HARLEM ROAD TURN LANES 2 STA. 6+00 TO 12+50
7. HARLEM ROAD TURN LANE 3 STA. 14+00 TO END
8. HARLEM ROAD LEFT TURN LANE 1 TRAFFIC CONTROL PLAN
9. HARLEM ROAD RIGHT TURN LANE 1 TRAFFIC CONTROL PLAN
10. HARLEM ROAD LEFT TURN LANE 2 TRAFFIC CONTROL PLAN
11. HARLEM ROAD RIGHT TURN LANE 2 TRAFFIC CONTROL PLAN
12. HARLEM ROAD RIGHT TURN LANE 3 TRAFFIC CONTROL PLAN

DETAILS

13. STORM SEWER & PAVING CONSTRUCTION DETAILS
14. BARRICADE, PERMANENT SIGNAGE AND STRIPING DETAILS
15. SWPPP DETAILS
16. TxDOT PEDESTRIAN FACILITIES PED-12A

ONE-CALL NOTIFICATION
SYSTEM
CALL BEFORE YOU DIG!!!
(713) 223-4567 (IN HOUSTON)
(NEW STATEWIDE NUMBER OUTSIDE HOUSTON)
1-800-344-8377

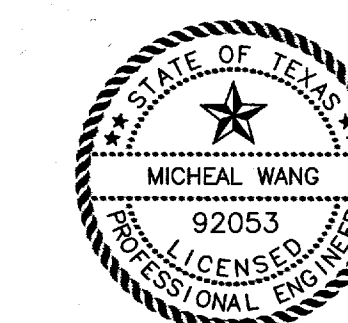
FIRM
FLOOD INSURANCE MAP
PANEL 140 OF 575
MAP# 48157C0140L

FORT BEND COUNTY ENGINEER

ENGINEER: Richard W. Stolte, P.E.
DATE: 5/23/17

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

APPROVED: Maxi
DEVELOPMENT COORDINATOR
DATE: 5/12/17



ENGINEER:

LJA Engineering, Inc.

2929 Briarpark Drive
Suite 600
Houston, Texas 77042

Phone 713.953.5200
Fax 713.953.5026
FRN-F-1386

CITY OF HOUSTON GENERAL NOTES – OUTSIDE CITY LIMITS

1. CONSTRUCT WASTEWATER COLLECTIONS SYSTEMS, WATER LINES, AND STORM DRAINAGE IN ACCORDANCE WITH THE LATEST EDITION OF THE PUBLICATIONS STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING PUBLISHED BY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING.
2. 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 713-223-4567/811 OR 800-344-8377 AND LONE STAR NOTIFICATION CENTER AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER, AND STORM DRAINAGE LINES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING REFERENCED ABOVE, AT NO ADDITIONAL COST.
4. CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING IN WRITING PRIOR TO COMMENCING CONSTRUCTION.
5. 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.
6. CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.

GENERAL NOTES

1. SURFACE RESTORATION: AT THE END OF ALL CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL RESTORE EXISTING FACILITY (I.E. PROPERTY) EQUAL TO OR BETTER THAN EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR FOR EXCAVATION, INSTALLATION, BACKFILLING OF WATER AND/OR SEWER MAINS AND RELATED APPURTENANCES AS SHOWN ON THE PLANS AND/OR DESCRIBED IN THE SPECIAL PROVISIONS.
3. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL AT ALL TIMES BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIALS AND EQUIPMENT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIAL AND EQUIPMENT STORED ON THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES, DURING AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.
5. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION, AS PER O.S.H.A. REQUIREMENTS.
6. ALL TESTING PROCEDURES USED ON THIS PROJECT SHALL CONFORM TO THE CITY OF HOUSTON STANDARDS. THE INITIAL TESTING EXPENSE SHALL BE BORNE BY THE OWNER. IF ANY OF THE TEST RESULTS DO NOT MEET THE TESTING STANDARDS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR REPLACE SUCH MATERIAL SO THAT THE TESTING STANDARDS CAN BE MET. ADDITIONAL TESTING TO COMPLY WITH THESE STANDARDS SHALL BE AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL "POINTS OF CROSSING" TO DETERMINE IF CONFLICTS EXIST BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.
8. CONTACT THE LOCAL MUD OPERATOR TO OPERATE EXISTING UTILITIES.
9. CONTACT THE LOCAL MUD OPERATOR PRIOR TO MAKING TIE-INS TO EXISTING UTILITIES.
10. WHEN HYDROMULCH IS REQUIRED, CONTRACTOR SHALL KEEP MULCH MOIST AFTER INSTALLATION AND UNTIL AREA SHOWS GROWTH.

PAVING NOTES

1. ALL RETURNS SHALL HAVE 25' RADIUS AT BACK OF CURB UNLESS OTHERWISE NOTED.
2. FAILURE TO MEET THE REQUIREMENTS THROUGH THE TESTING PROCEDURE WILL RESULT IN THE REJECTION OF THAT PORTION DEEMED TO BE DEFICIENT. THE PROPOSED PAVEMENT DEPTHS SHOWN ON THE PLAN DETAIL SHEETS IS CONSISTENT WITH THESE NOTES AND SHALL BE USED TO DETERMINE THE REQUIREMENT IN EACH CASE.
3. FAILURE OF A PAVEMENT TO MEET THESE MINIMUM REQUIREMENTS WILL RESULT IN THE REJECTION OF PAVEMENT. IMMEDIATE REMOVAL AND REPLACEMENT OF SUBSTANDARD PAVEMENT SECTIONS WILL BE NECESSARY TO SATISFY THESE REQUIREMENTS.
4. PAVEMENTS EXCEEDING DEPTH OR STRENGTH REQUIREMENTS WILL BE ACCEPTED IF BOTH CRITERIA MEET THE MINIMUM ESTABLISHED REQUIREMENTS.
5. TRANSVERSE EXPANSION JOINTS ARE REQUIRED AT MAXIMUM SPACING OF 60'-0" C-C, WITH JOINTS AND VERTICAL CURB JOINTS TO BE SEALED WITH LIQUID RUBBER CONFORMING TO TxDOT ITEM 360.2 (8)c CLASS 2 (HOT POURED RUBBER)
6. DENSITY TESTING SHALL BE DONE IMMEDIATELY PRIOR TO PLACEMENT OF REINFORCING STEEL FOR CONCRETE PAVING.
7. CONCRETE CYLINDERS @ 4 EACH, SLUMP, AND AIR ENTRAINMENT TESTS ARE REQUIRED FOR EACH 150 CY. OF CONCRETE PAVING.

STORM SEWER NOTES

1. STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE (C-76, CLASS III), AND SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07 (OCT. 2002) AS APPLICABLE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
2. ALL STORM SEWERS CONSTRUCTED IN SIDELOT EASEMENT SHALL BE R.C.P. (C-76, CLASS III) AND SHALL BE BEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07 AS APPLICABLE.
3. ALL SEWERS 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 CEMENT/C.Y. STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.
4. ALL TRENCH BACKFILLS SHALL BE IN 8" LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS ON EACH LIFT, AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D-698)/AASHTO T99).
5. CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINTS CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.
6. ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24-INCH AND LARGER R.C.P. (C-76, CLASS III).
7. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLETS ARE TO BE PLUGGED WITH 8" BRICK WALLS UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL PROVIDE 18" MINIMUM CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS.
9. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 02086-ADJUSTING MANHOLES, INLETS AND VALVE BOXES TO GRADE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK.
11. ALL DITCHES SHALL BE REGRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREA SHALL BE REGRADED, SEEDED, AND FERTILIZED.
12. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.

FORT BEND COUNTY GENERAL NOTES

1. FORT BEND COUNTY MUST BE INVITED TO THE PRE-CONSTRUCTION MEETING.
2. CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND 48 HOURS NOTICE TO ANY CONSTRUCTION ACTIVITY WITHIN THE LIMITS OF THE PAVING CONSTRUCTION@FORTBENDCOUNTYTX.GOV
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FROM FORT BEND COUNTY PRIOR TO COMMENCING CONSTRUCTION OF ANY IMPROVEMENTS WITHIN COUNTY ROAD RIGHT OF WAYS.
4. ALL PAVING IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY "RULES, REGULATIONS, AND REQUIREMENTS RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS" AS CURRENTLY AMENDED.
5. ALL ROAD WIDTHS, CURB RADII, AND CURB ALIGNMENT SHOWN INDICATES BACK OF CURB.
6. A CONTINUOUS LONGITUDINAL REINFORCING BAR SHALL BE USED IN THE CURBS.
7. ALL CONCRETE PAVEMENT SHALL BE 5½ SACK CEMENT 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 60 FEET.
8. ALL WEATHER ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
9. 4" X 12" REINFORCED CONCRETE CURB SHALL BE PLACED IN FRONT OF SINGLE FAMILY 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 TxDOT Ped-12a STANDARD DETAIL SHEET. A.D.A.-HANDICAP RAMPS SHALL BE INSTALLED WITH STREET PAVING AT ALL INTERSECTIONS AND COMPLY WITH CURRENT A.D.A. REGULATIONS.
11. CURB HEADERS ARE REQUIRED AT CURB CONNECTIONS TO HANDICAP RAMPS, WITH NOT CONSTRUCTION JOINT WITHIN 5' OF RAMPS.
12. ALL INTERSECTIONS UTILIZING TRAFFIC CONTROL MEASURES SHALL HAVE A.D.A. WHEEL CHAIR RAMPS INSTALLED.
13. GUIDELINES 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, SIGNING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION - BOTH DAY AND NIGHT.
14. ALL R1-1 STOP SIGNS SHALL BE 30"x30" WITH DIAMOND GRADE SHEETING PER TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
15. STREET NAME SIGNAGE SHALL BE ON A 9" HIGH SIGN FLAT BLADE W/REFLECTIVE GREEN BACKGROUND. STREET NAMES SHALL BE UPPER AND LOWERCASE LETTERING WITH UPPERCASE LETTERS OF 6" MINIMUM AND LOWERCASE LETTERS OF 4.5" MINIMUM. THE LETTERS SHALL BE REFLECTIVE WHITE. STREET NAME SIGNS SHALL BE MOUNTED ON STOP SIGN POST.
16. A BLUE DOUBLE REFLECTORIZED BUTTON SHALL BE PLACED AT ALL FIRE HYDRANT LOCATIONS. THE BUTTON SHALL BE PLACED 12 INCHES OFF THE CENTERLINE OF THE STREET ON THE SAME SIDE AS THE HYDRANT.

NOTE: FORT BEND COUNTY NOTES SUPERSEDE ANY CONFLICTING NOTES

INSPECTION. THE PROJECT AND ALL PARTS THEREOF SHALL BE SUBJECT TO INSPECTION FROM TIME TO TIME BY INSPECTORS DESIGNATED BY FORT BEND COUNTY. NO SUCH INSPECTIONS SHALL RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER. NEITHER FAILURE TO INSPECT NOR FAILURE TO DISCOVER OR REJECT ANY OF THE WORK AS NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, REQUIREMENTS AND SPECIFICATIONS OF FORT BEND COUNTY OR ANY PROVISION OF THE PROJECT SHALL BE CONSTRUED TO IMPLY AN ACCEPTANCE OF SUCH WORK OR TO RELIEVE THE CONTRACTOR OF ANY ITS OBLIGATIONS HEREUNDER.

BENCHMARK:

FOUND TxDOT BRASS CAP SET IN EAST END OF SOUTH HEADWALL OF CONCRETE BOX CULVERTS (SET OF 5) @ HWY. 99/GRAND PARKWAY & OUTFALL DITCH-SOUTH, 1,800(+/-) WEST OF HARLEM ROAD. ELEVATION = 92.24 (NAVD 88, 2001 ADJUST.)

FLOODPLAIN INFORMATION:

SUBJECT TRACT IS LOCATED IN ZONE "X" UNSHADED, AREA DETERMINED TO BE OUTSIDE THE 500 YEAR FLOODPLAIN, PER FEMA MAP 48157C0140L, DATED APRIL 2, 2014

NOTES:

1. ALL CURB TO BE 6-INCH UNLESS OTHERWISE SPECIFIED.

RECORD DRAWING

I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS

BY _____ DATE _____

TITLE _____

PRIVATE UTILITY LINES SHOWN

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

NOTICE:
For your safety, you are required by Texas law to call 811 at least 48 hours before you dig so that underground line can be marked. This Verification does not fulfill your obligation to call 811.

VERIFICATION OF PRIVATE UTILITY LINES
Date _____
CenterPoint Energy/Natural Gas Facilities Verification ONLY.
(This Signature verifies that you have shown CPE Natural Gas lines correctly - not to be used for conflict verification.) (Gas service lines are not shown.)
Signature Valid for six months.

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
(This signature verifies existing underground facilities - not to be used for conflict verification.) Signature Valid for six months.

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: *Mary D. [Signature]*
DEVELOPMENT COORDINATOR

DATE: 6/12/17

DATE	REVISION	BY

PLAT NAME: WATERVIEW TOWN CENTER SEC 2

CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD
TURN LANES

GENERAL CONSTRUCTION NOTES

DEDEN SERVICES, LLC
CIVIL ENGINEERING
Texas Registered Engineering Firm F-10971
9328 WESTVIEW
HOUSTON, TX 77055
(713) 461-8822
FAX (713) 461-2671

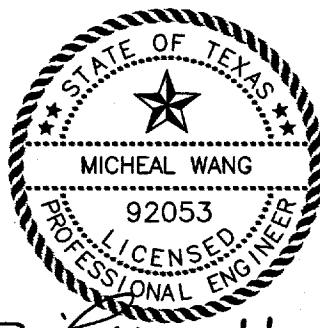
LJA Engineering, Inc.
2929 Briarpark Drive
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
FRN - F-1388

LJA PROJECT NO.: 2145-2119

DRAWN: AB/M.F. DESIGN: AB/M.F. DATE: APRIL 2017

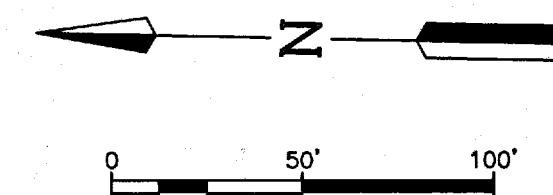
SCALE: NONE

SHEET NO. 2 OF 16



LEGEND

- EXISTING STORM SEWER AND MANHOLE
- PROPOSED PAVEMENT
- INDICATES PAVING SUMMIT
- EXISTING SANITARY SEWER AND MANHOLE
- INDICATES SHEET REFERENCE NUMBER
- W.L.E. INDICATES WATERLINE EASEMENT
- STM.S.E. INDICATES STORM SEWER EASEMENT
- S.S.E. INDICATES SANITARY SEWER EASEMENT
- INDICATES STREET SIGNS
- INDICATES EXISTING SHEET FLOW
- INDICATES 2 INCH ASPHALT WITH 10" BLACK BASE



NOTE
CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE HARLEM ROAD R.O.W. WITH THE FORT BEND COUNTY ROAD & BRIDGE DEPT, (281)342-4513.

BENCHMARK:
FOUND TXDOT BRASS CAP SET IN EAST END OF SOUTH HEADWALL OF CONCRETE BOX CULVERTS (SET OF 5) @ HWY. 99/GRAND PARKWAY & OUTFALL DITCH-SOUTH, 1,800(+/-) WEST OF HARLEM ROAD. ELEVATION = 92.24 (NAVD 88, 2001 ADJUST.)

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(This Signature verifies that you have shown CNP Natural Gas lines correctly - not to be used for conflict verification.) (Gas service lines are not shown.) Signature Valid for six months.

Date _____
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY:
(This signature verifies existing underground facilities - not to be used for conflict verification.) Signature Valid for six months.

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: *Maxi D.*
DEVELOPMENT COORDINATOR

DATE:	6/23/17
REVISION	
BY	

PLAT NAME: WATERVIEW TOWN CENTER SEC 2

CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD
TURN LANES

OVERALL LAYOUT

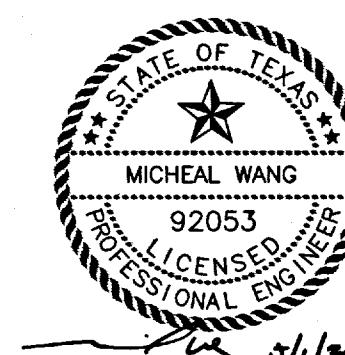
DEDEN SERVICES, LLC
CIVIL ENGINEERING
(Texas Registered Engineering Firm F-10971)

LJA Engineering, Inc.
2929 Briarpark Drive
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LJA PROJECT NO.: 2145-2119

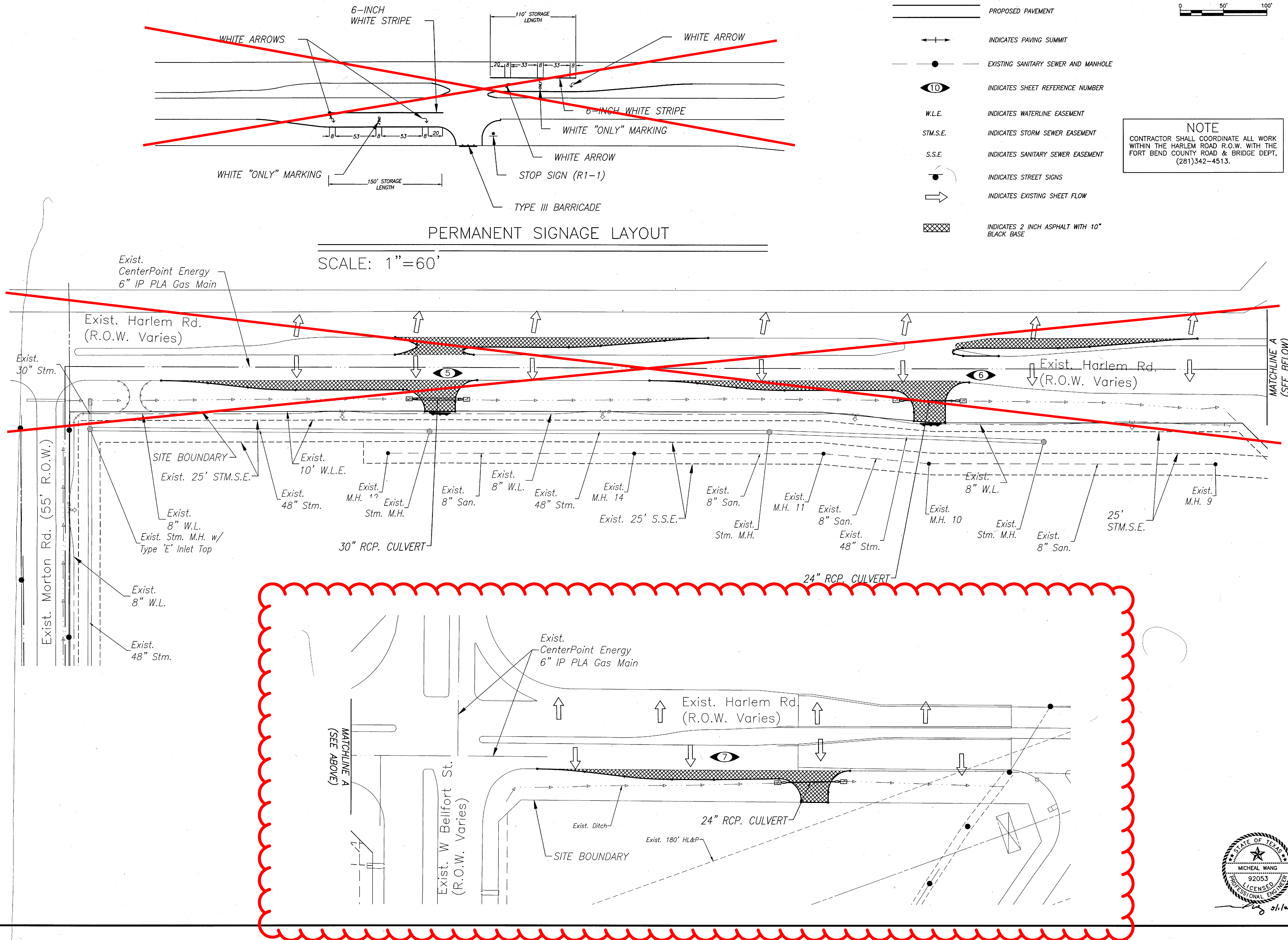
DRAWN: A.B./M.F. DESIGN: A.B./M.F. DATE: APRIL 2017

SCALE: 1" = 50' SHEET NO. 3 OF 16



PERMANENT SIGNAGE LAYOUT

SCALE: 1"=60'



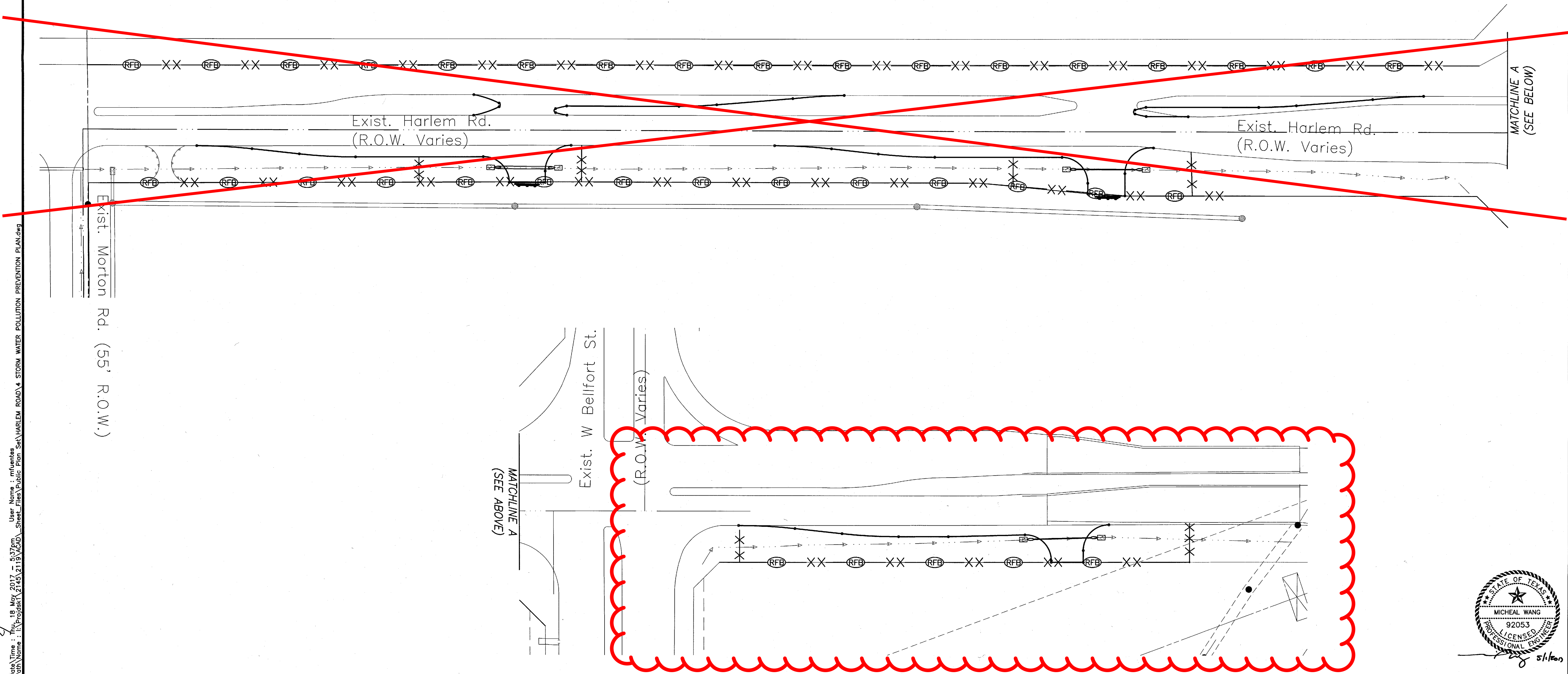
\\s01\proj\2145\2119\CD\Sheet_Files\Public Plan Set\HARLEM ROAD\4 STORM WATER POLLUTION PREVENTION PLAN.dwg
User Name: mfluente
Plot Name: L:\proj\2145\2119\CD\Sheet_Files\Public Plan Set\HARLEM ROAD\4 STORM WATER POLLUTION PREVENTION PLAN.dwg
Date: 19 May 2017 - 5:37pm
PLOT TIME: 19 May 2017 - 5:37pm



LEGEND

XX—RFB—XX = REINFORCED FABRIC FENCE

INSTALL AND MAINTAIN REINFORCED
FILTER FABRIC FENCE AND STABILIZED
CONSTRUCTION EXITS.
(SEE DETAIL SHEET NO. 15)



BENCHMARK:
FOUND TXDOT BRASS CAP SET IN EAST END OF SOUTH HEADWALL OF CONCRETE BOX CULVERTS (SET OF 5) @ HWY. 99/GRAND PARKWAY & OUTFALL DITCH-SOUTH, 1,800(+/-) WEST OF HARLEM ROAD. ELEVATION = 92.24 (NAVD 88, 2001 ADJUST.)

FLOODPLAIN INFORMATION:
SUBJECT TRACT IS LOCATED IN ZONE "X" UNSHADED, AREA DETERMINED TO BE OUTSIDE THE 500 YEAR FLOODPLAIN, PER FEMA MAP 48157C0140L, DATED APRIL 2, 2014

NOTES:
1. ALL CURB TO BE 6-INCH UNLESS OTHERWISE SPECIFIED.

RECORD DRAWING
I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS
BY _____ DATE _____
TITLE _____

PRIVATE UTILITY LINES SHOWN
TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222
NOTICE:
For your safety, you are required by Texas law to call 811 at least 48 hours before you dig so that underground line can be marked. This Verification does not fulfill your obligation to call 811.
VERIFICATION OF PRIVATE UTILITY LINES
Date _____
CenterPoint Energy/Natural Gas Facilities Verification ONLY.
(This Signature verifies that you have shown CNP Natural Gas lines correctly - not to be used for conflict verification.) (Gas service lines are not shown.) Signature Valid for six months.
Date _____
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
(This signature verifies existing underground facilities - not to be used for conflict verification.) Signature Valid for six months.

FORT BEND COUNTY ENGINEERING DEPARTMENT
APPROVED: *Max J. [Signature]*
DEVELOPMENT COORDINATOR
DATE: **5/23/17**
DATE _____ REVISION _____ BY _____
PLAT NAME: WATERVIEW TOWN CENTER SEC 2
CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143
HARLEM ROAD TURN LANES
STORM WATER POLLUTION PREVENTION PLAN

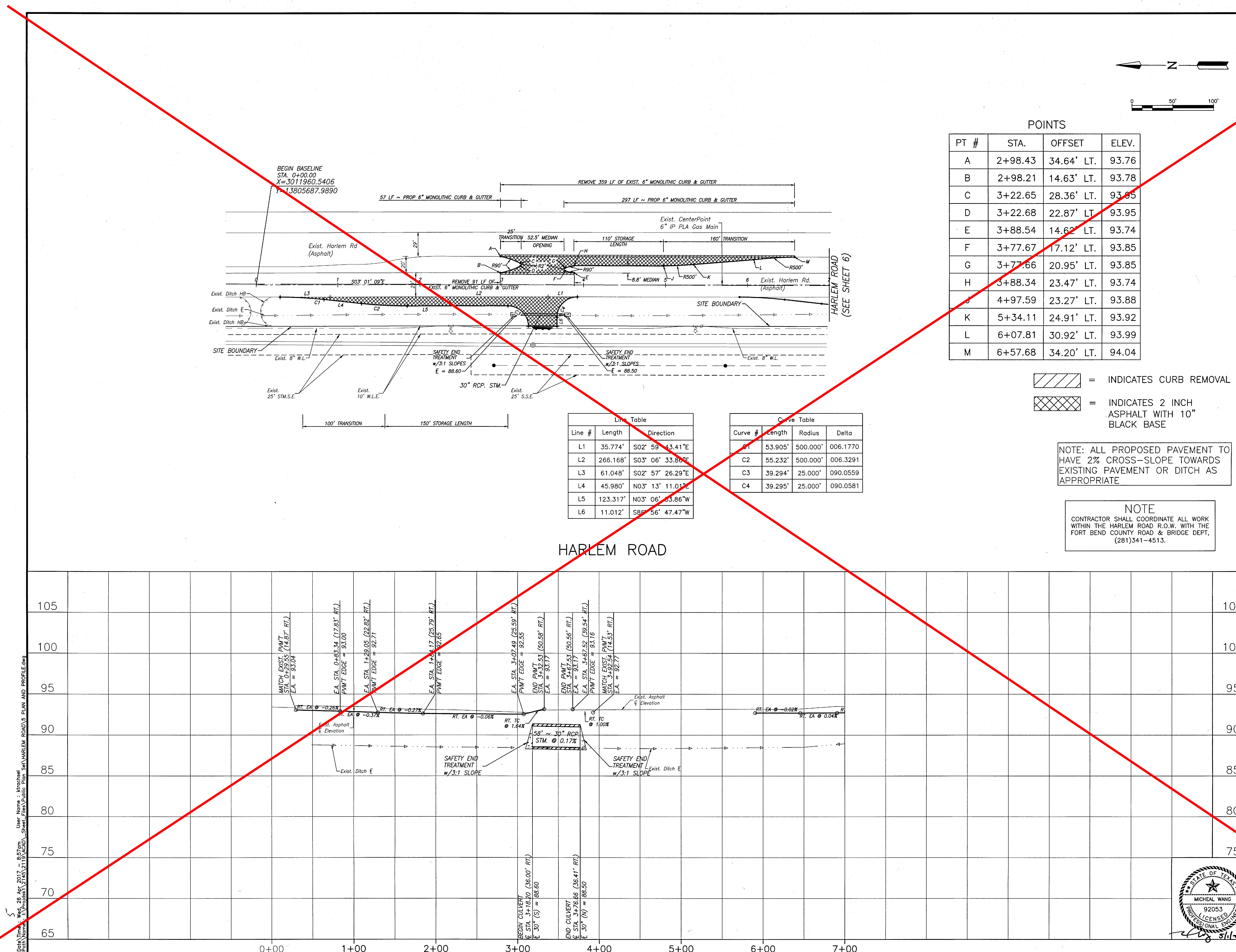
DEDEN SERVICES, LLC
CIVIL ENGINEERING
Texas Registered Engineering Firm F-10971
9328 WESTVIEW HOUSTON, TX 77055
(713) 461-8822
FAX (713) 461-2671

LJA Engineering, Inc.
2929 Briarpark Drive Suite 600 Houston, Texas 77042
Phone 713.953.5200 Fax 713.953.5026 FRN - F-1386

LJA PROJECT NO.: 2145-2119
DRAWN: A.B./M.F. DESIGN: A.B./M.F. DATE: APRIL 2017
SCALE: 1" = 50' SHEET NO. 4 OF 16

Professional Engineer Seal:
STATE OF TEXAS
MICHAEL WANG
92053
LICENSED PROFESSIONAL ENGINEER
5/1/20

HARLEM ROAD TURN LANES - JOB NO. 2145-2119



BENCHMARK:
FOUND TXDOT BRASS CAP SET IN EAST END OF SOUTH HEADWALL OF CONCRETE BOX CULVERTS (SET OF 5) @ HW-99/GRAND PARKWAY & OUTFALL DITCH-SOUTH, 1,800(+/-) WEST OF HARLEM ROAD. ELEVATION = 92.22 (NAVD 88, 2001 ADJUST.)

FLOODPLAIN INFORMATION:
SUBJECT TRACT IS LOCATED IN ZONE "X" UNSHADED, AREA DETERMINED TO BE OUTSIDE THE 500 YEAR FLOODPLAIN, PER FEMA MAP 48157C0140L, DATED APRIL 2, 2014

NOTES:
1. ALL CURB TO BE 6-INCH UNLESS OTHERWISE SPECIFIED.

RECORD DRAWING
I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS

BY: _____ DATE: _____
TITLE: _____

PRIVATE UTILITY LINES SHOWN
TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222

NOTICE:
For your safety, you are required by TEXAS LAW to call 811 at least 48 hours before you dig so that underground line can be marked. This verification does not fulfill your obligation to call 811.

VERIFICATION OF PRIVATE UTILITY LINES
Date: _____
CenterPoint Energy/Natural Gas Facilities Verification ONLY.
(This Signature verifies that you have shown CNP Natural Gas lines correctly - not to be used for conflict verification.) (Gas service lines are not shown.) Signature Valid for six months.

VERIFICATION OF UNDERGROUND FACILITIES
Date: _____
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
(This signature verifies existing underground facilities - not to be used for conflict verification.) Signature Valid for six months.

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: *Michael Wang*
DEVELOPMENT COORDINATOR

DATE:	5/12/17	BY:
DATE	REVISION	BY

PLAT NAME: WATERVIEW TOWN CENTER SEC 2

CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD
TURN LANES

HARLEM ROAD
STA. 0+00 TO 7+00

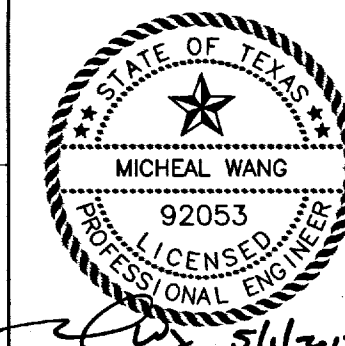
DEDEN SERVICES, LLC
CIVIL ENGINEERING
1001 Registered Engineering Firm F-10972
9228 WESTVIEW HOUSTON, TX 77055
(713) 461-8822 FAX (713) 461-2673

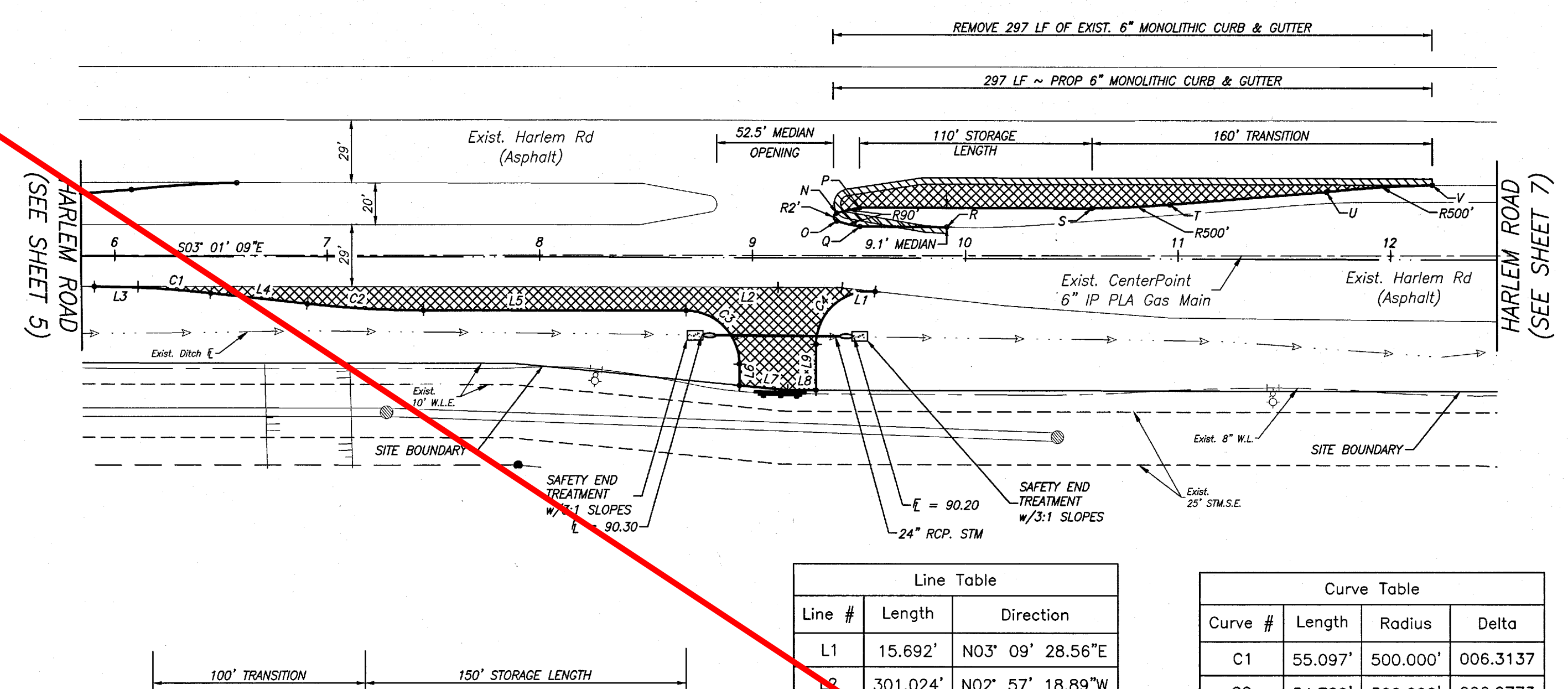
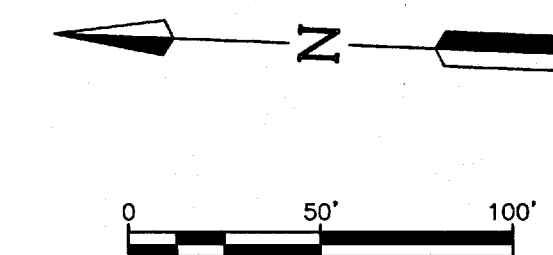
LJA Engineering, Inc.
2929 Briarpark Drive Suite 600 Houston, Texas 77042
Phone 713.953.5200 Fax 713.953.5026 FRN - F-1388

LJA PROJECT NO.: 2145-2119

DRAWN: A.B./M.F. DESIGN: A.B./M.F. DATE: APRIL 2017

SCALE: 1" = 50' SHEET NO. 5 OF 16





Line Table		
Line #	Length	Direction
L1	15.692'	N03° 09' 28.56"E
L2	301.024'	N02° 57' 18.89"W
L3	90.646'	N03° 00' 13.95"W
L4	45.603'	S03° 19' 19.38"W
L5	123.543'	S02° 57' 18.89"E
L6	10.077'	S87° 03' 23.68"W
L7	22.661'	S02° 30' 48.96"W
L8	13.451'	S02° 56' 01.00"E
L9	21.560'	N87° 01' 43.15"E

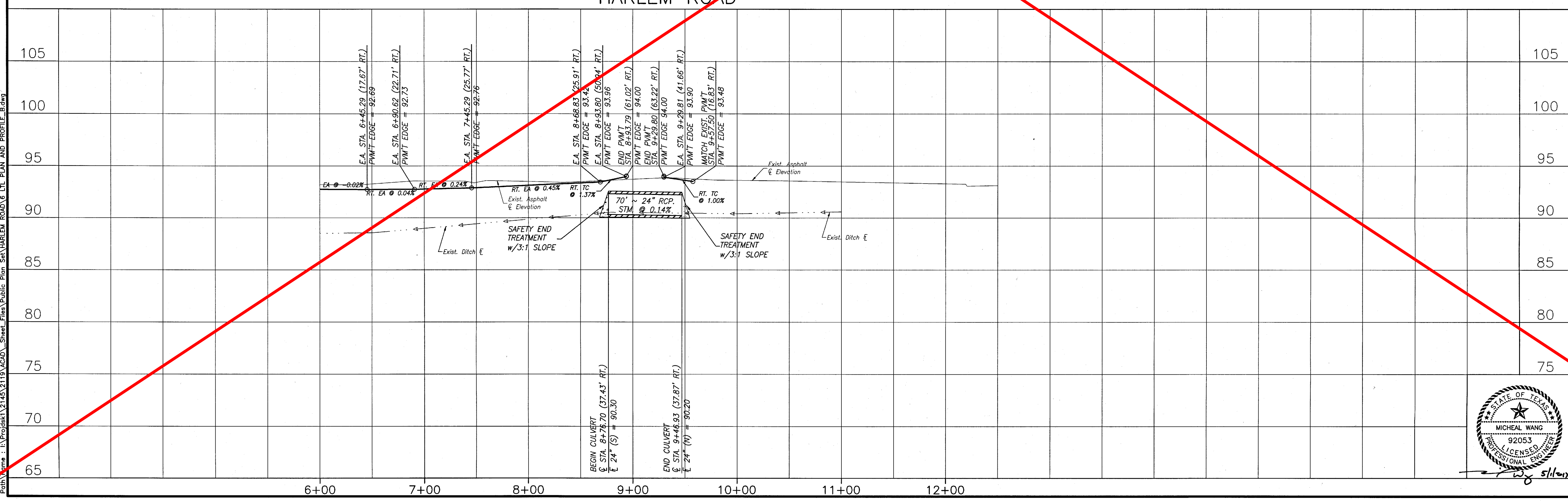
Curve Table			
Curve #	Length	Radius	Delta
C1	55.097'	500.000'	006.3137
C2	54.780'	500.000'	006.2773
C3	39.275'	25.000'	090.0118
C4	41.944'	25.000'	096.1299

POINTS			
PT #	STA.	OFFSET	ELEV.
N	9+39.57	20.02' LT.	93.76
O	9+39.58	16.20' LT.	93.78
P	9+50.25	22.55' LT.	93.95
Q	9+50.45	13.69' LT.	93.95
R	9+91.23	13.43' LT.	93.74
S	10+59.57	22.42' LT.	93.85
T	10+96.09	24.06' LT.	93.85
U	11+69.79	30.07' LT.	93.74
V	12+19.58	33.28' LT.	93.88

NOTE
CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE HARLEM ROAD R.O.W. WITH THE FORT BEND COUNTY ROAD & BRIDGE DEPT. (281)341-4513.

- = INDICATES CURB REMOVAL
- = INDICATES 2 INCH ASPHALT WITH 10" BLACK BASE

NOTE: ALL PROPOSED PAVEMENT TO HAVE 2% CROSS-SLOPE TOWARDS EXISTING PAVEMENT OR DITCH AS APPROPRIATE



BENCHMARK:
FOUND TXDOT BRASS CAP SET IN EAST END OF SOUTH HEADWALL OF CONCRETE BOX CULVERTS (SET OF 5) @ HWY. 99/GRAND PARKWAY & OUTFALL DITCH-SOUTH, 1,800(+/-) WEST OF HARLEM ROAD. ELEVATION = 92.24 (MWD 88, 2001 ADJUST.)

FLOODPLAIN INFORMATION:
SUBJECT TRACT IS LOCATED IN ZONE "X" UNSHADED, AREA DETERMINED TO BE OUTSIDE THE 100 YEAR FLOODPLAIN, PER FEMA MAP 15457C0140L, DATED APRIL 2, 2014

NOTES:
1. ALL CURB TO BE 6-INCH UNLESS OTHERWISE SPECIFIED.

RECORD DRAWING
I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS
BY _____ DATE _____
TITLE _____

PRIVATE UTILITY LINES SHOWN
TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS VERIFICATION DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES
Date _____
CenterPoint Energy/Natural Gas Facilities Verification ONLY.
(This Signature verifies that you have shown CNP Natural Gas lines correctly - not to be used for conflict verification.) (Gas service lines are not shown.) Signature Valid for six months.

Date _____
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
(This signature verifies existing underground facilities - not to be used for conflict verification.) Signature Valid for six months.

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: DEVELOPMENT COORDINATOR
DATE: 5/12/17

DATE	REVISION	BY

PLAT NAME: WATERVIEW TOWN CENTER SEC 2
CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD
TURN LANES

HARLEM ROAD
STA. 6+00 TO 12+50

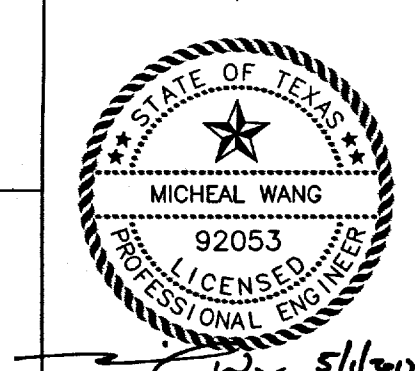
DEDEN SERVICES, LLC
CIVIL ENGINEERING
Texas Registered Engineering Firm F-10973
9328 WESTVIEW, HOUSTON, TX 77055
(713) 461-8822 FAX (713) 461-2671

LJA Engineering, Inc.
2929 Briarpark Drive Suite 600 Houston, Texas 77042
Phone 713.953.5200 Fax 713.953.5026 FRN - F-1386

LJA PROJECT NO.: 2145-2119

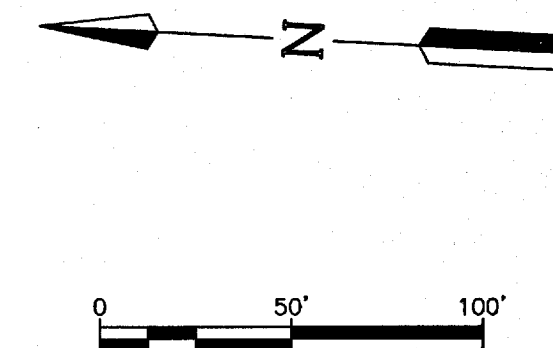
DRAWN: A.B./M.F. DESIGN: A.B./M.F. DATE: APRIL 2017

HORIZ: 1" = 50'
VERT: 1" = 5' SHEET NO. 6 OF 16



6
Date: 26 Apr 2017, 8:56am User: Noma - Michael Wang
Plot: 6 - HARLEM ROAD TURN LANES - JOB NO. 2145-2119

HARLEM ROAD TURN LANES - JOB NO. 2145-2119



Curve Table			
Curve #	Length	Radius	Delta
C1	54.700'	500.000'	006.2684°
C2	54.702'	500.000'	006.2684°
C3	39.856'	25.000'	091.3439°
C4	39.185'	25.000'	089.8058°

NOTE: ALL PROPOSED PAVEMENT TO
HAVE 2% CROSS-SLOPE TOWARDS
EXISTING DITCH AS

NOTE
CONTRACTOR SHALL COORDINATE ALL WORK
WITHIN THE HARLEM ROAD R.O.W. WITH THE
FORT BEND COUNTY ROAD & BRIDGE DEPT.,
(281)341-4513.

BENCHMARK:
FOUND TXDOT BRASS CAP SET IN EAST END
OF SOUTH HEADWALL OF CONCRETE BOX
CULVERTS (SET OF 5) @ HWY. 99/GRAND
PARKWAY & OUTFALL DITCH--SOUTH,
1,800(+/-) WEST OF HARLEM ROAD.
ELEVATION = 92.24 (NAVD 88, 2001 ADJUST.)

FLOODPLAIN INFORMATION:
SUBJECT TRACT IS LOCATED IN ZONE "X"
UNSHADED, AREA DETERMINED TO BE OUTSIDE
THE 500 YEAR FLOODPLAIN, PER FEMA MAP
48157C0140L, DATED APRIL 2, 2014

NOTES:

1. ALL CURB TO BE 6-INCH UNLESS OTHERWISE SPECIFIED.

RECORD DRAWING

I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS

BY _____ DATE _____
TITLE _____

PRIVATE	UTILITY	LINES	SHOWN
---------	---------	-------	-------

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED,
CALL CENTERPOINT ENERGY AT 713-207-2222

For your safety, you are required by Texas Law to call 811 at least 48 hours before you dig so that underground line can be marked. This Verification does not fulfill your obligation to call 811.

VERIFICATION OF PRIVATE UTILITY LINES

Date _____

CenterPoint Energy/Natural Gas Facilities Verification ONLY.
(This Signature verifies that you have shown CNP Natural Gas lines correctly
not to be used for conflict verification.) (Gas service lines are not shown.)
Signature Valid for six months.

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
(This signature verifies existing underground facilities - not to be used for
conflict verification.) Signature Valid for six months.

FORT BEND COUNTY ENGINEERING DEPARTMENT

20

APPROVED: Maggi
DEVELOPMENT COORDINATOR

DATE: 5/23/17

[illegible]

PLAT NAME: WATERVIEW TOWN CENTER SEC

CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD
TURN LANES

HARLEM ROAD
STA. 14+00 TO END

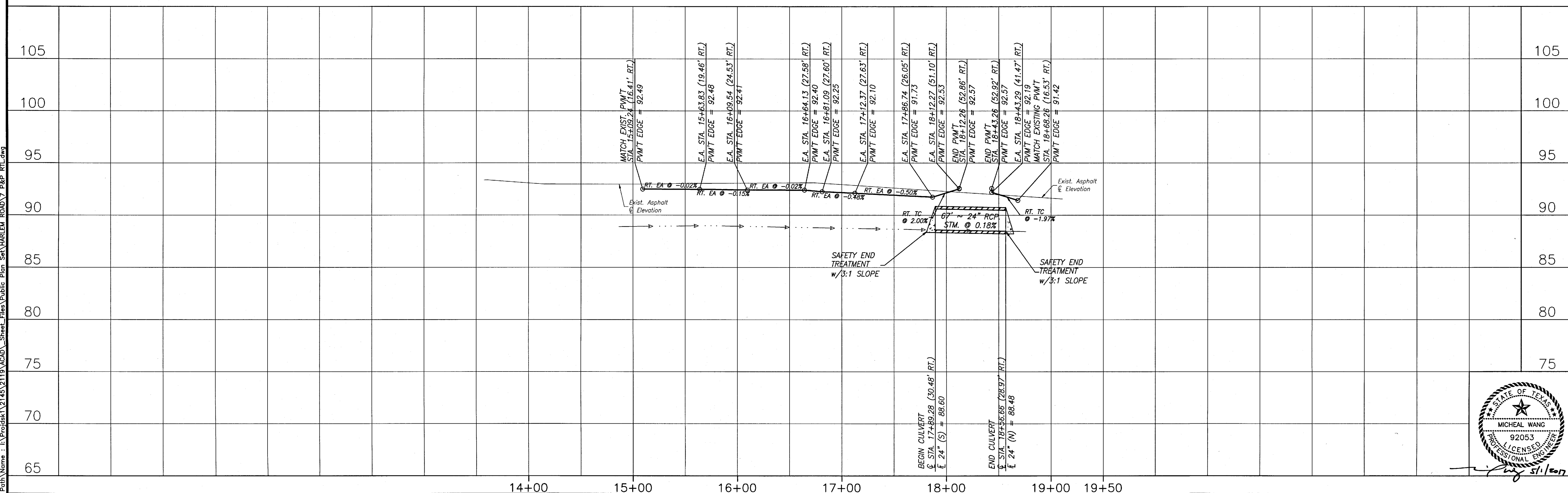
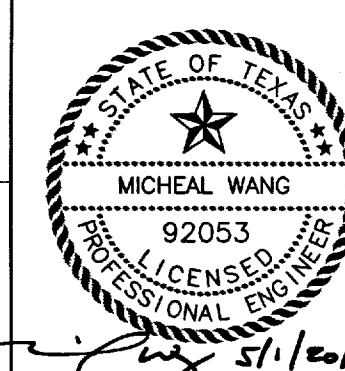
DEDEN SERVICES, LLC
CIVIL ENGINEERING
Texas Registered Engineering Firm F-10971

LJA Engineering, Inc.
2929 Briarpark Drive
Suite 600
Houston, Texas 77042
Phone 713.953.5250
Fax 713.953.5050
ERN - E-13

LJA PROJECT NO.: 2145-2119

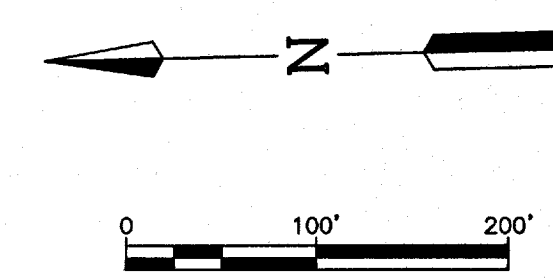
DRAWN: A.B./M.F. DESIGN: A.B./M.F. DATE: APRIL 201

HORZ: 1" = 50'
VERT: 1" = 5' SHEET NO. 7 OF 16



Date/Time : Thu, 18 May 2017 - 5:41pm User Name : mfuentes
 Path Name : I:\Poidsk\12145\2119\ACAD_Sheet_Files\Public Plan Set\HARLEM ROAD\7 P&P RTL.dwg

HARLEM ROAD TURN LANES - JOB NO. 2145-2119



HOURS OF
CLOSURE
9 AM - 2:30 PM

NOTES:

1. ALL CURB TO BE 6-INCH UNLESS OTHERWISE SPECIFIED.

I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS

BY _____ DATE _____

TITLE _____

PRIVATE UTILITY LINES SHOWN

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED,
CALL CENTERPOINT ENERGY AT 713-207-2222

NOTICE:
For your safety, you are required by Texas Law to call 811 at least 48 hours before you dig so that underground line can be marked. This Verification does not fulfill your obligation to call 811.

not fulfill your obligation to call 811.

VERIFICATION OF PRIVATE UTILITY LINES

Date _____

CenterPoint Energy/Natural Gas Facilities Verification ONLY.
(This Signature verifies that you have shown CNP Natural Gas lines correctly
not to be used for conflict verification.) (Gas service lines are not shown.)
Signature Valid for six months.

Date _____

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
(This signature verifies existing underground facilities - not to be used for
conflict verification.) Signature Valid for six months.

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: Meggie [Signature]
DEVELOPMENT COORDINATOR

DATE: 5/23/17

DATE	REVISION

PLAT NAME: WATerview TOWN CENTER SEC 2


CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD
TURN LANES

HARLEM ROAD
LEFT TURN LANE 1
TRAFFIC CONTROL PLAN

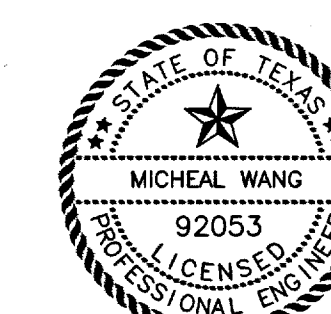
DEDEN SERVICES, LLC
Texas Registered Engineering Firm E-10971
9328 WESTVIEW
HOUSTON, TX. 77057
(713) 461-8822
FAX (713) 461-2671

LJA Engineering, Inc. 
2929 Briarpark Drive Phone 713.953.5200
Suite 600 Fax 713.953.5026
Houston, Texas 77042 FRN - F-1386

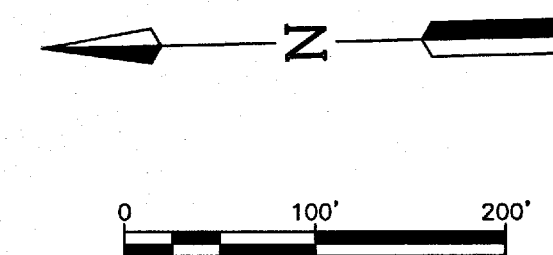
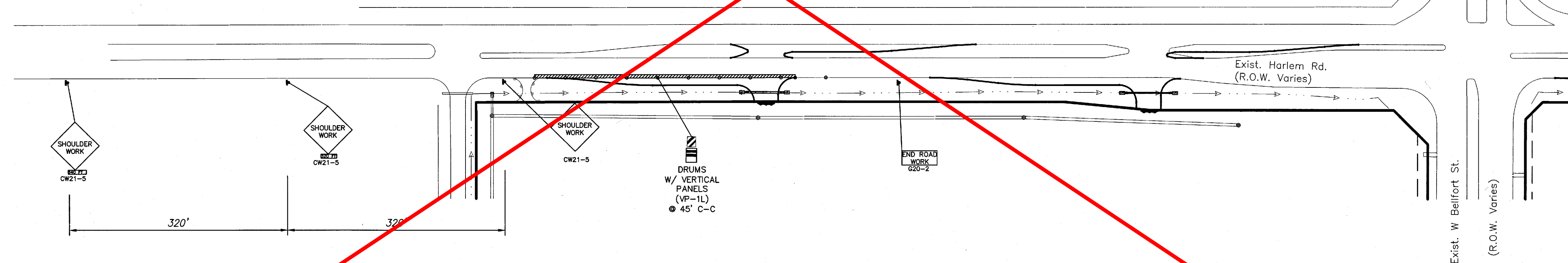
LJA PROJECT NO.: 2145-2119

DRAWN: A.B./M.F. DESIGN: A.B./M.F. DATE: APRIL 2017

SCALE: 1" = 100' SHEET NO. 8 OF 16



9
Date Time : Wed, 26 Apr 2017 - 8:58:00 User Name : kirocheel
Plot Name : I:\Projects\2145\2145\ACU\Sheet_Files\Public Plan Set\HARLEM ROAD\9 RTL TCP 1.dwg



 = INDICATES WORK ZONE

BENCHMARK:
FOUND TXDOT BRASS CAP SET IN EAST END OF SOUTH HEADWALL OF CONCRETE BOX CULVERTS (SET OF 5) @ HWY. 89/GRAND PARKWAY & OUTFALL DITCH SOUTH, 1,800(+/-) WEST OF HARLEM ROAD. ELEVATION = 92.24 (NAVD 88, 2001 ADJUST.)


FLOODPLAIN INFORMATION:
SUBJECT TRACT IS LOCATED IN ZONE "X" UNSHADED, AREA DETERMINED TO BE OUTSIDE THE 500 YEAR FLOODPLAIN, PER FEMA MAP 15157C0140L, DATED APRIL 2, 2014

NOTES:
1. ALL CURB TO BE 6-INCH UNLESS OTHERWISE SPECIFIED.

RECORD DRAWING
I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS
BY _____ DATE _____
TITLE _____

PRIVATE UTILITY LINES SHOWN
TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222
NOTICE:
For your safety, you are required by Texas Law to call 811 at least 48 hours before you dig so that underground lines can be marked. This Verification does not fulfill your obligation to call 811.
VERIFICATION OF PRIVATE UTILITY LINES
Date _____
CenterPoint Energy/Natural Gas Facilities Verification ONLY:
(This Signature verifies that you have shown CNP Natural Gas lines correctly - not to be used for conflict verification.) (Gas service lines are not shown.) Signature Valid for six months.
Date _____
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY:
(This signature verifies existing underground facilities - not to be used for conflict verification.) Signature Valid for six months.

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: 
DEVELOPMENT COORDINATOR
DATE: 5/12/17

DATE	REVISION	BY

PLAT NAME: WATERVIEW TOWN CENTER SEC 2
CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD
TURN LANES

HARLEM ROAD
RIGHT TURN LANE 1
TRAFFIC CONTROL PLAN

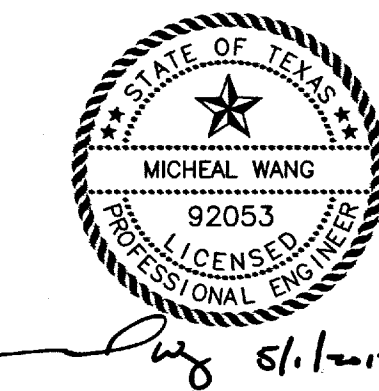
DEDEN SERVICES, LLC
Civil Engineering
Texas Registered Engineering Firm F-10971
9328 WESTVIEW HOUSTON, TX 77055
(713) 461-8822
FAX (713) 461-2671

LJA Engineering, Inc.
2929 Briarpark Drive Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
FRN - F-1388

LJA PROJECT NO.: 2145-2119

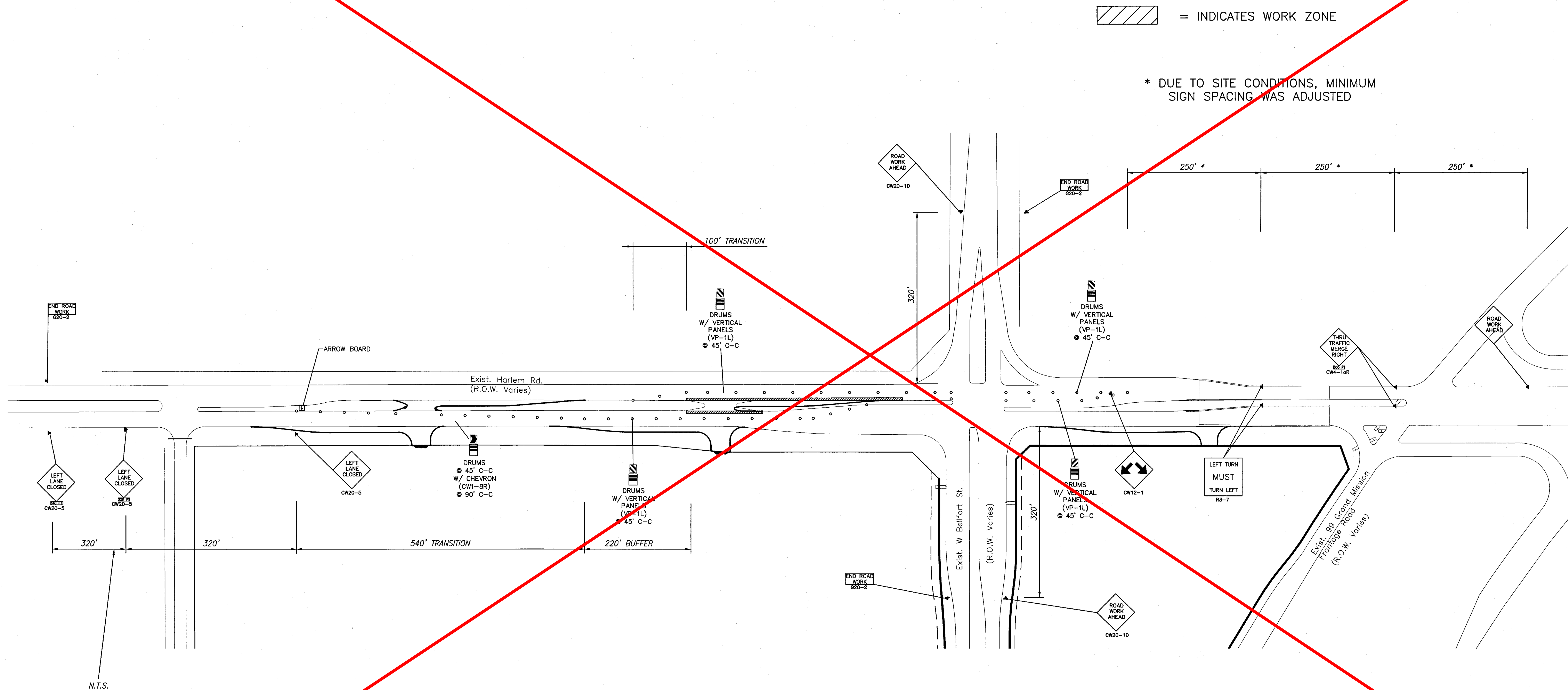
DRAWN: A.B./M.F. DESIGN: A.B./M.F. DATE: APRIL 2017

SCALE: 1" = 100'
SHEET NO. 9 OF 16



HARLEM ROAD TURN LANES - JOB NO. 2145-2119

10
Date Time: Thu, 18 May 2017 8:10:00 AM User Name: mfuente
Plot File: C:\Users\mfuente\Documents\2017\2119\2119 HARLEM ROAD TURN Lanes.dwg



BENCHMARK:
FOUND TxDOT BRASS CAP SET IN EAST END
OF SOUTH HEADWALL OF CONCRETE BOX
CULVERTS (SET OF 5) @ HWY. 99 GRAND
PARKWAY & OUTFALL DITCH-SOUTH,
1,800(+/-) WEST OF HARLEM ROAD.
ELEVATION = 92.24 (NAD 88, 2001 ADJUST.)

FLOODPLAIN INFORMATION:
SUBJECT TRACT IS LOCATED IN ZONE "X"
UNSHADED AREA DETERMINED TO BE OUTSIDE
THE 500 YEAR FLOODPLAIN, PER FEMA MAP
48157C0140L, DATED APRIL 2, 2014

NOTES:
1. ALL CURB TO BE 6-INCH UNLESS
OTHERWISE SPECIFIED.

RECORD DRAWING
I CERTIFY THAT THIS DRAWING REFLECTS THE
IMPROVEMENTS CONSTRUCTED AS TO SIZE,
LOCATION AND GRADE AND THAT THE
CONSTRUCTION WAS IN FULL COMPLIANCE WITH
THE CONTRACT DOCUMENTS

BY _____ DATE _____
TITLE _____

PRIVATE UTILITY LINES SHOWN

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED,
CALL CENTERPOINT ENERGY AT 713-207-2222

NOTICE:
For your safety, you are required by Texas Law to call 811 at least 48 hours
before you dig so that underground line can be marked. This verification does
not fulfill your obligation to call 811.

VERIFICATION OF PRIVATE UTILITY LINES
Date _____
CenterPoint Energy/Natural Gas Facilities Verification ONLY.
(This signature verifies that you have shown CNP Natural Gas lines correctly -
not to be used for conflict verification.) (Gas service lines are not shown.)
Signature Valid for six months.

Date _____
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
(This signature verifies existing underground facilities - not to be used for
conflict verification.) Signature Valid for six months.

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: *Maxine*
DEVELOPMENT COORDINATOR
DATE: 5/23/17

DATE	REVISION	BY

PLAT NAME: WATERVIEW TOWN CENTER SEC 2

CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD
TURN LANES

HARLEM ROAD
LEFT TURN LANE 2
TRAFFIC CONTROL PLAN

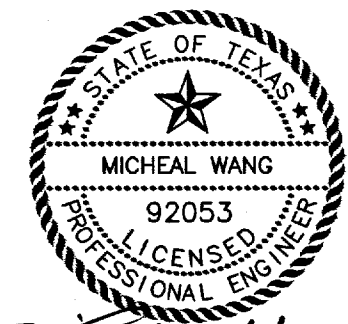
DEDEN SERVICES, LLC
CIVIL ENGINEERING
9328 WESTVIEW
HOUSTON, TX 77055
(713) 461-5822
FAX (713) 461-2671

LJA Engineering, Inc.
2929 Briarpark Drive
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
FRN - F-1386

LJA PROJECT NO.: 2145-2119

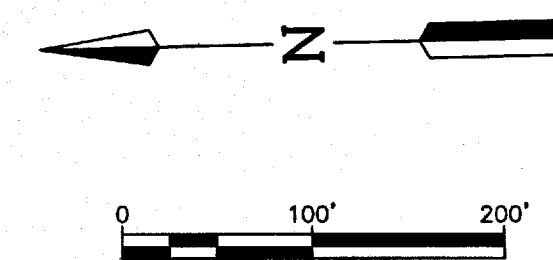
DRAWN: A.B./M.F. DESIGN: A.B./M.F. DATE: APRIL 2017

SCALE: 1" = 100'
SHEET NO. 10 OF 16

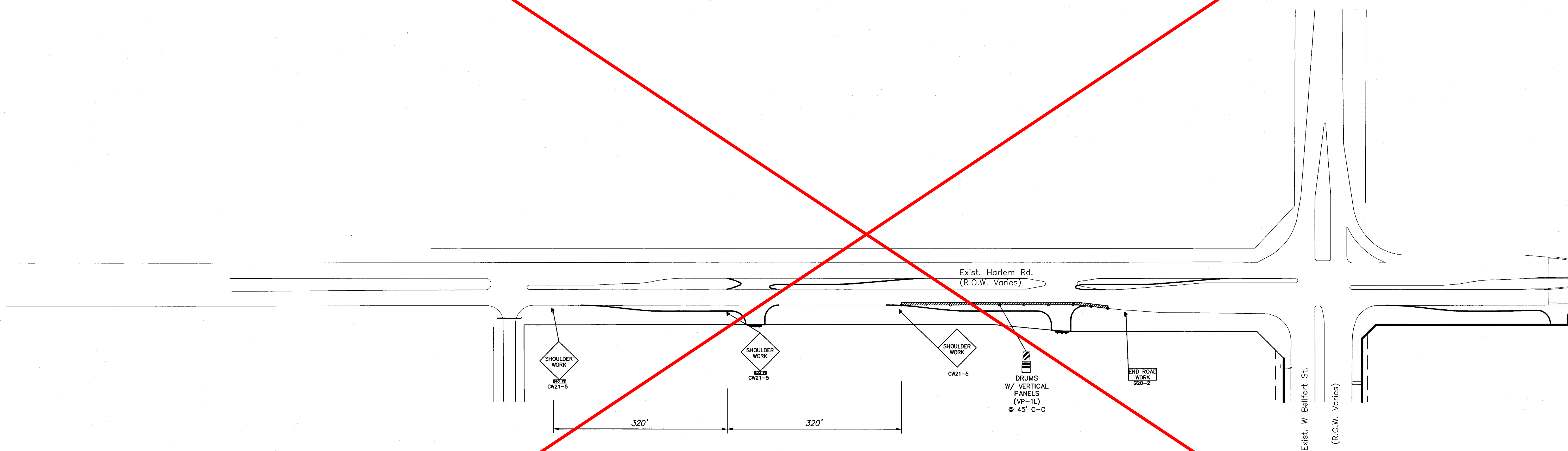


HARLEM ROAD TURN LANES - JOB NO. 2145-2119

11
PLOT TIME: THU, 18 MAY 2017 - 6:10PM User Name: mfuente
PLOT NAME: I:\Projects\2145\2119\ACD_Sheet_Files\Public Plan Set\HARLEM ROAD\11_RTL TCP 2.dwg



 = INDICATES WORK ZONE



BENCHMARK:
FOUND TXDOT BRASS CAP SET IN EAST END
OF SOUTH HEADWALL OF CONCRETE BOX
CULVERTS (SET OF 5) @ HWY. 89 GRAND
PARKWAY & OUTFALL DITCH-SOUTH,
1,800(+/-) WEST OF HARLEM ROAD,
ELEVATION = 92.24 (NAD 88, 2001 ADJUST.)

FLOODPLAIN INFORMATION:
SUBJECT TRACT IS LOCATED IN ZONE "X"
UNSHADED AREA DETERMINED TO BE OUTSIDE
THE 100 YEAR FLOODPLAIN, PER FEMA MAP
48157C0140L, DATED APRIL 2, 2014

NOTES:
1. ALL CURB TO BE 6-INCH UNLESS
OTHERWISE SPECIFIED.

RECORD DRAWING
I CERTIFY THAT THIS DRAWING REFLECTS THE
IMPROVEMENTS CONSTRUCTED AS TO SIZE,
LOCATION AND GRADE AND THAT THE
CONSTRUCTION WAS IN FULL COMPLIANCE WITH
THE CONTRACT DOCUMENTS

BY _____ DATE _____
TITLE _____

PRIVATE UTILITY LINES SHOWN

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED,
CALL CENTERPOINT ENERGY AT 713-207-2222

NOTICE:
For your safety, you are required by Texas Law to call 811 at least 48 hours
before you dig so that underground line can be marked. This Verification does
not fulfill your obligation to call 811.

VERIFICATION OF PRIVATE UTILITY LINES
Date _____
CenterPoint Energy/Natural Gas Facilities Verification ONLY.
(This Signature verifies that you have shown CNP Natural Gas lines correctly -
not to be used for conflict verification.) (Gas service lines are not shown.)
Signature Valid for six months.

Date _____
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
(This signature verifies existing underground facilities - not to be used for
conflict verification.) Signature Valid for six months.

Date _____
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY.
(This signature verifies existing underground facilities - not to be used for
conflict verification.) Signature Valid for six months.

Signature Valid for six months.

Signature Valid for six months.

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: 
DEVELOPMENT COORDINATOR

DATE: 5/23/17

DATE	REVISION	BY

PLAT NAME: WATERVIEW TOWN CENTER SEC 2

CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD
TURN LANES

HARLEM ROAD
RIGHT TURN LANE 2
TRAFFIC CONTROL PLAN

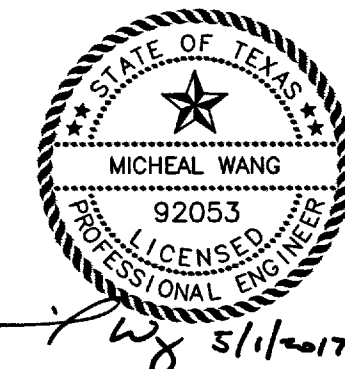
DEDEN SERVICES, LLC
CIVIL ENGINEERING
Registered Engineering Firm F-10971

LJA Engineering, Inc.
2929 Briarpath Drive
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5026
FRN - F-1386

LJA PROJECT NO.: 2145-2119

DRAWN: A.B./M.F. DESIGN: A.B./M.F. DATE: APRIL 2017

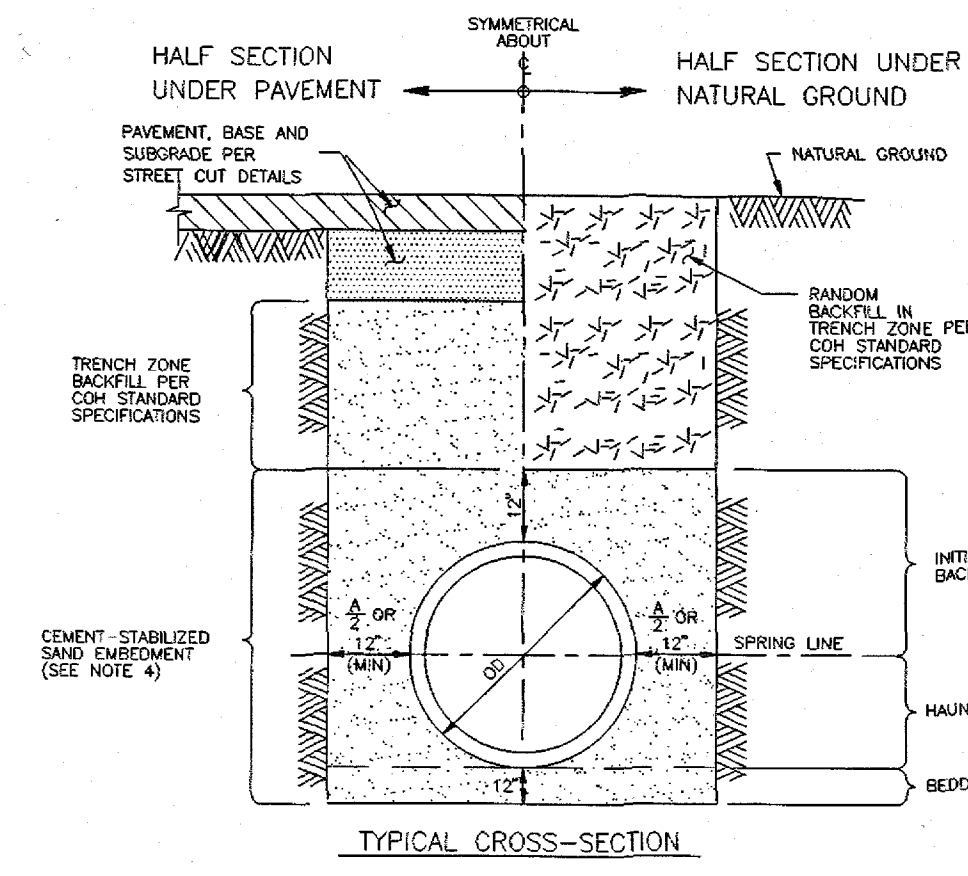
SCALE: 1" = 100'
SHEET NO. 11 OF 16



HARLEM ROAD TURN LANES - JOB NO. 2145-2119

17
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User Name: mluettgen
Sheet: Files\Public\Plot Set\HARLEM ROAD\13 STW & PAVING DETAILS 1.dwg

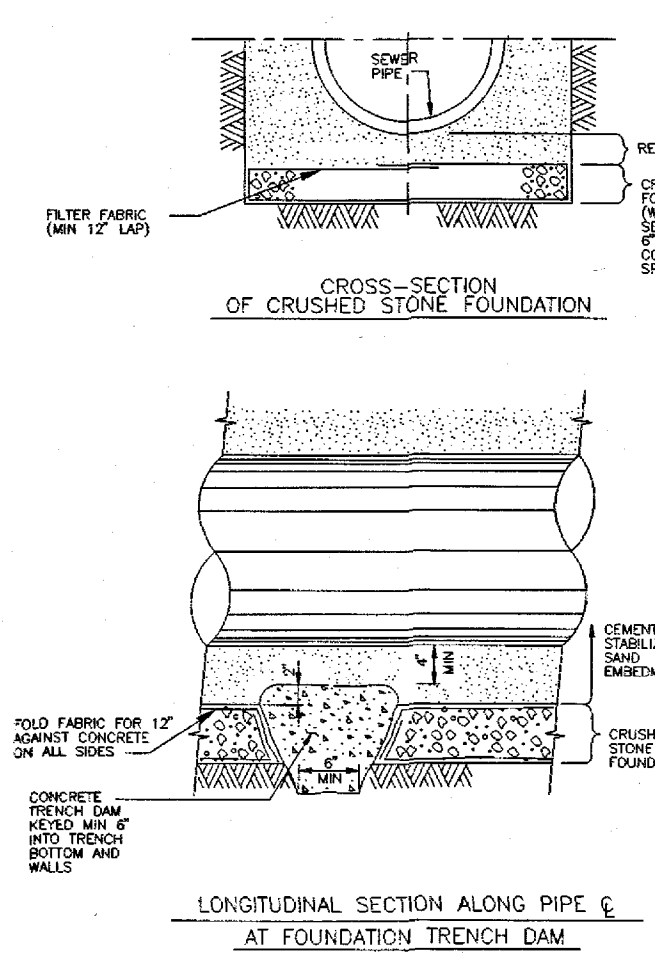
- NOTES:
1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS PER COM STANDARD. SEE COM STANDARD SPECIFICATION FOR REQUIREMENTS IN OTHER CONDITIONS.
 2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE.
 3. MAX TRENCH WIDTH SHALL BE NOT GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
 4. ALTERNATIVE EMBEDMENT BACKFILL MATERIALS FOR FORCE MAINS MAY BE ALLOWED. SEE COM STANDARD SPECIFICATIONS.



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION
SANITARY OR STORM SEWER
BEDDING AND BACKFILL
FOR DRY STABLE TRENCH
(NOT TO SCALE)
APPROVED BY: [Signature]
CITY ENGINEER
EFFECT DATE: OCT-01-2002 DWG NO: 02317-03

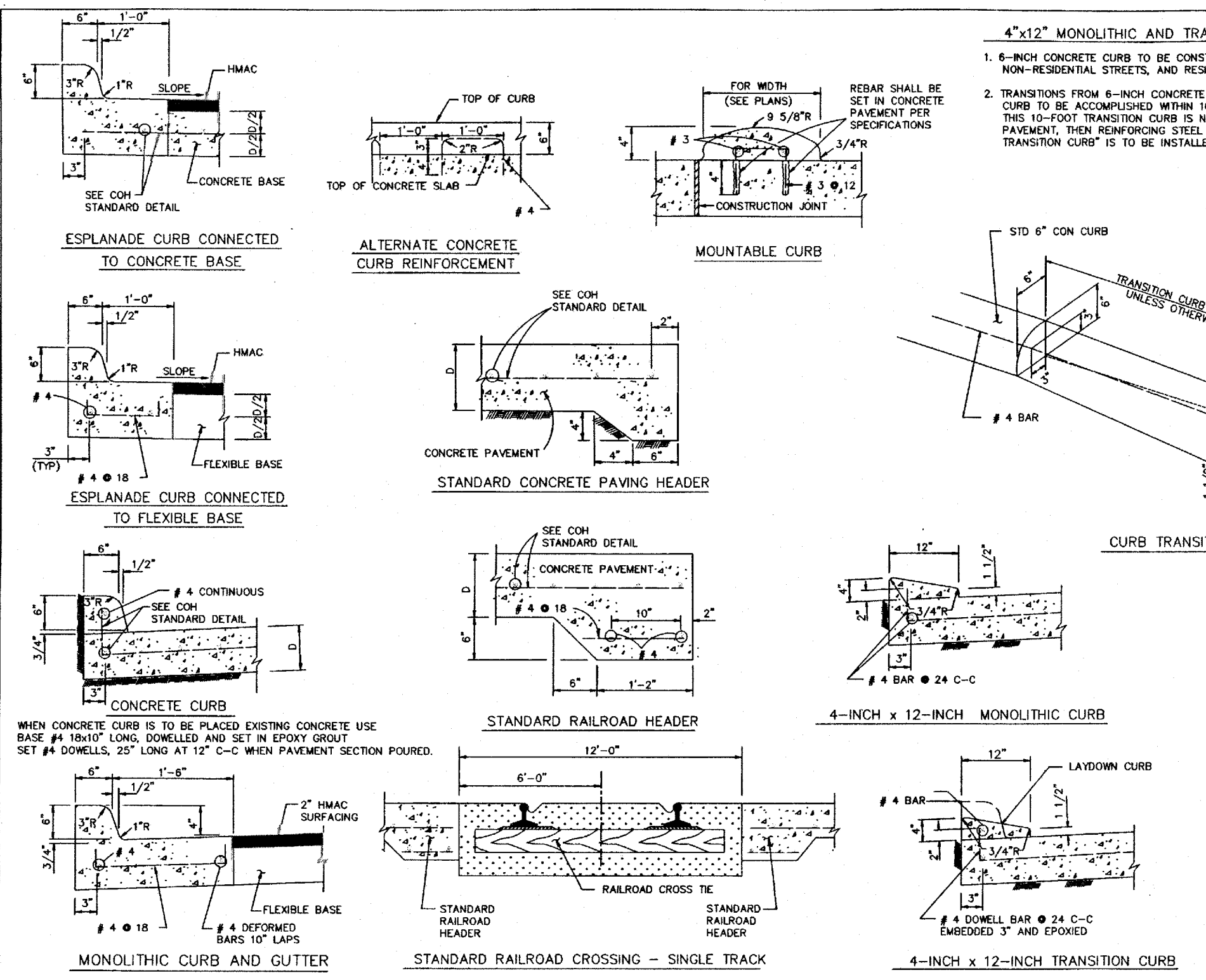
SANITARY OR STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH

- NOTES:
1. ACTUAL SHAPE OF CONCRETE TRENCH DAM CROSS SECTION MAY BE ESTIMATED BY CONTRACTOR'S FIELD OBSERVATIONS AND FIELD MEASUREMENTS.
 2. THIS DETAIL SHALL BE USED WITH CONCRETE STABILIZED SAND EMBEDMENT IN OTHER CLASS 1 SITUATIONS AT THE LENGTH OF 100 FEET BETWEEN MANHOLES.
 3. PLACE TRENCH DAM BY CLASS 1 EMBEDMENT AT THE LENGTH OF 100 FEET BETWEEN MANHOLES.



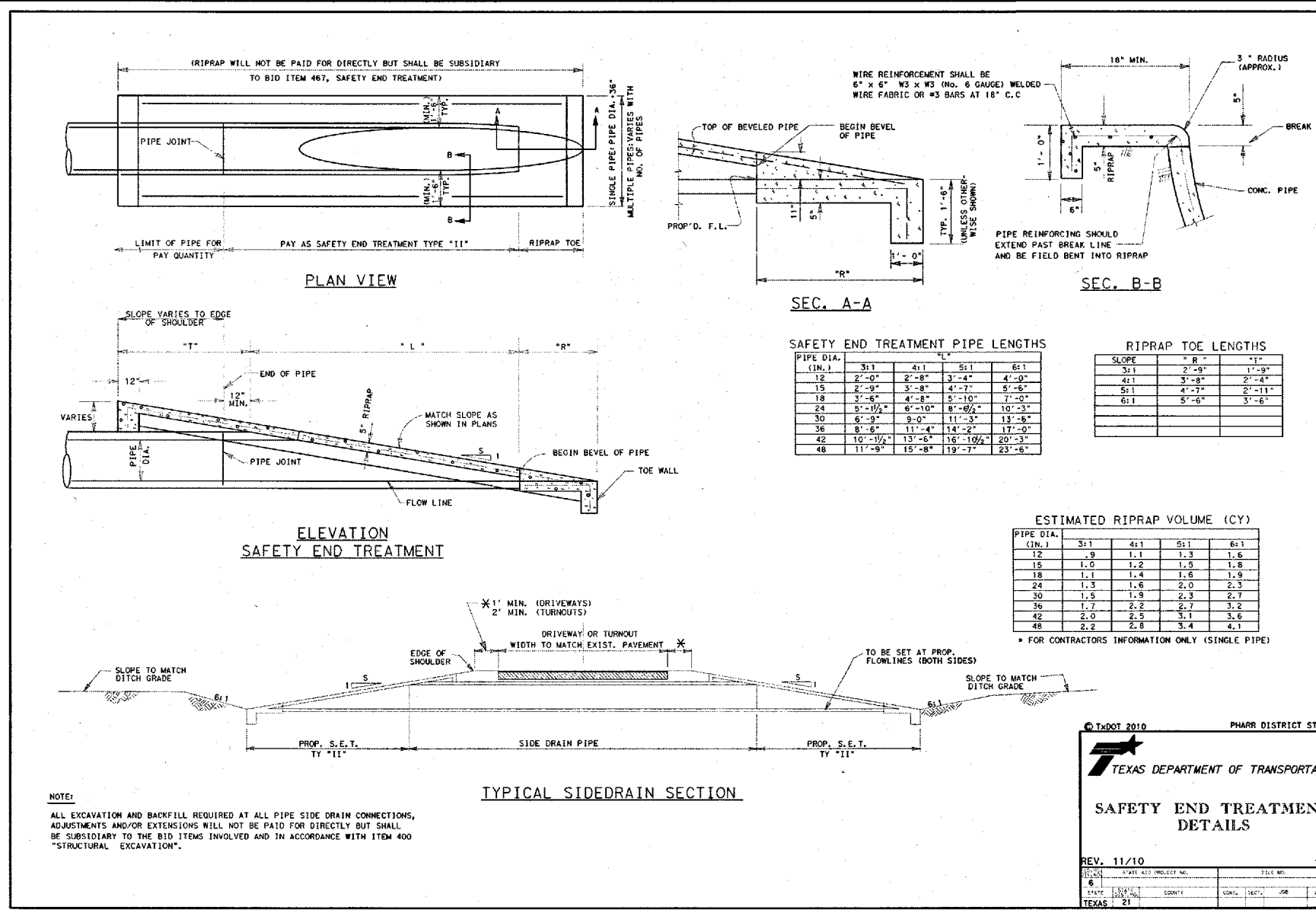
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION
SANITARY OR STORM SEWER
CRUSHED STONE FOUNDATION
FOR WET STABLE TRENCH
(NOT TO SCALE)
APPROVED BY: [Signature]
CITY ENGINEER
EFFECT DATE: OCT-01-2002 DWG NO: 02317-02

SANITARY OR STORM SEWER CRUSHED STONE FOUNDATION FOR WET STABLE TRENCH

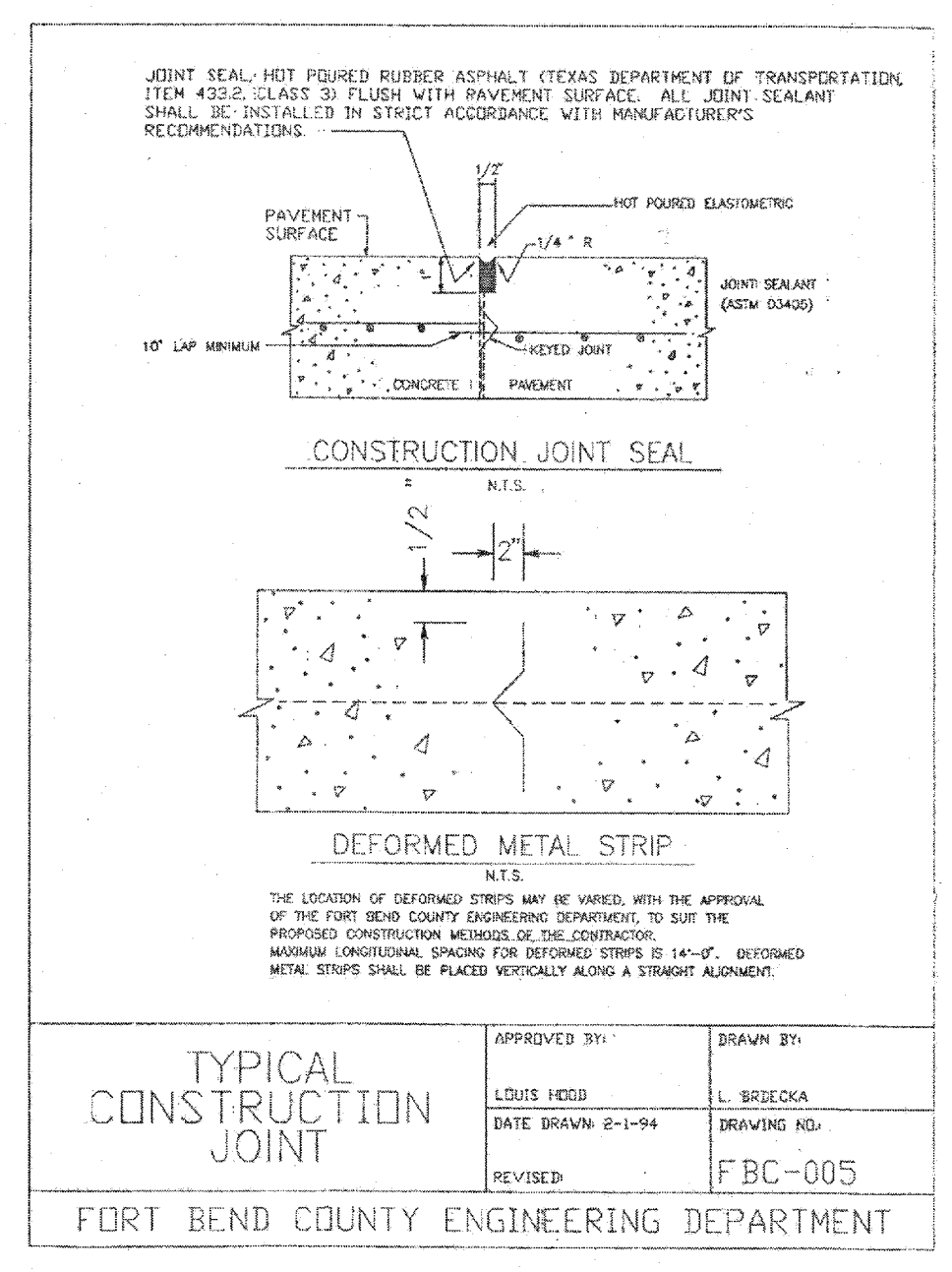


CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION
CURB, CURB AND GUTTER
AND HEADER DETAILS
(NOT TO SCALE)
APPROVED BY: [Signature]
CITY ENGINEER
EFFECT DATE: JULY-01-2008 DWG NO: 02771-01

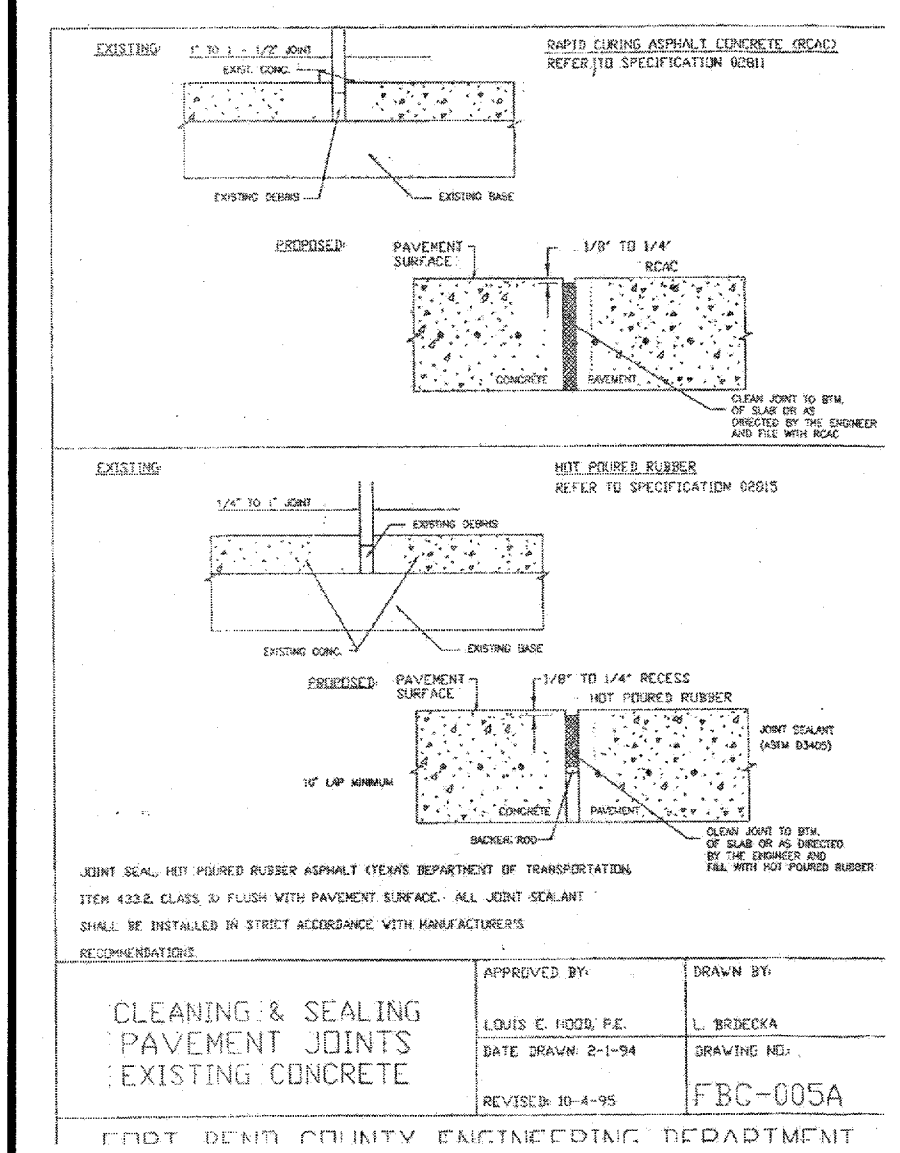
CURB, CURB AND GUTTER AND HEADER DETAILS



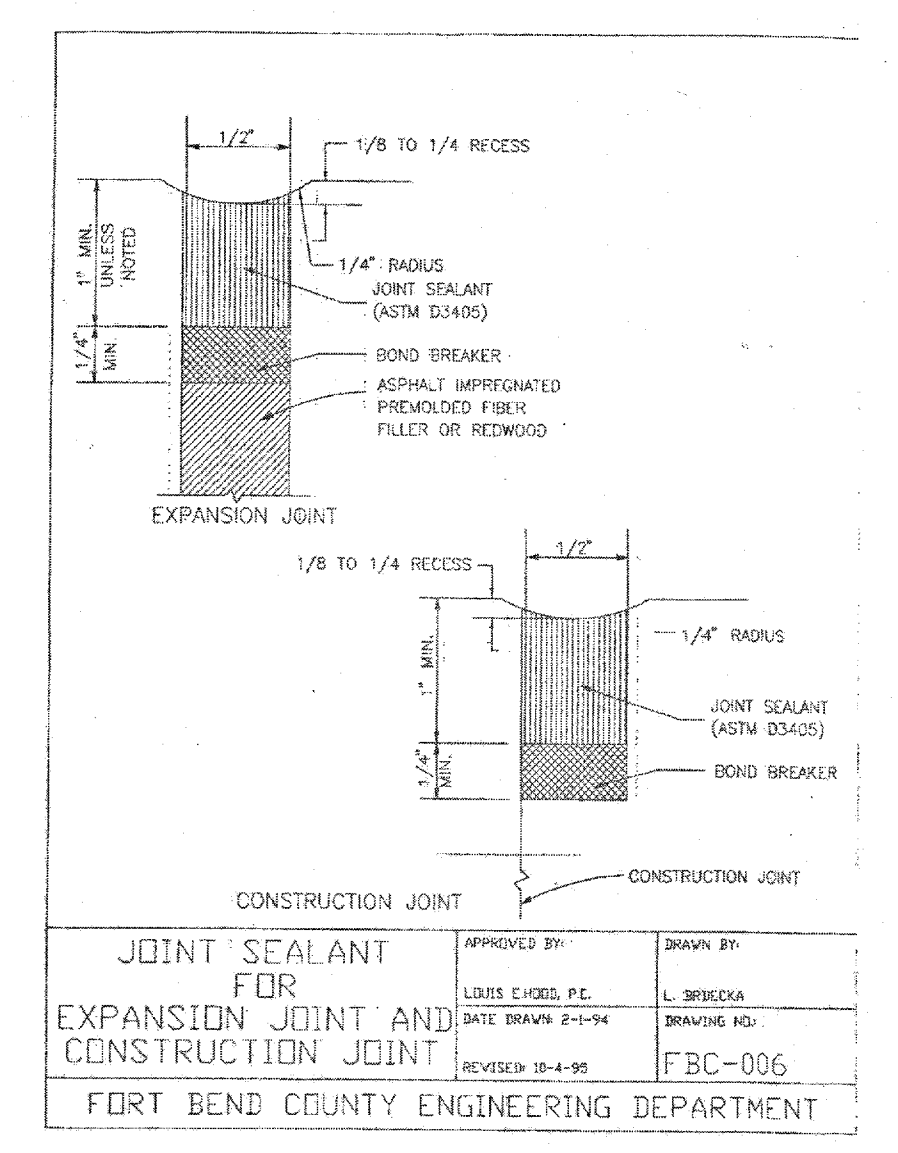
SAFETY END TREATMENT DETAIL



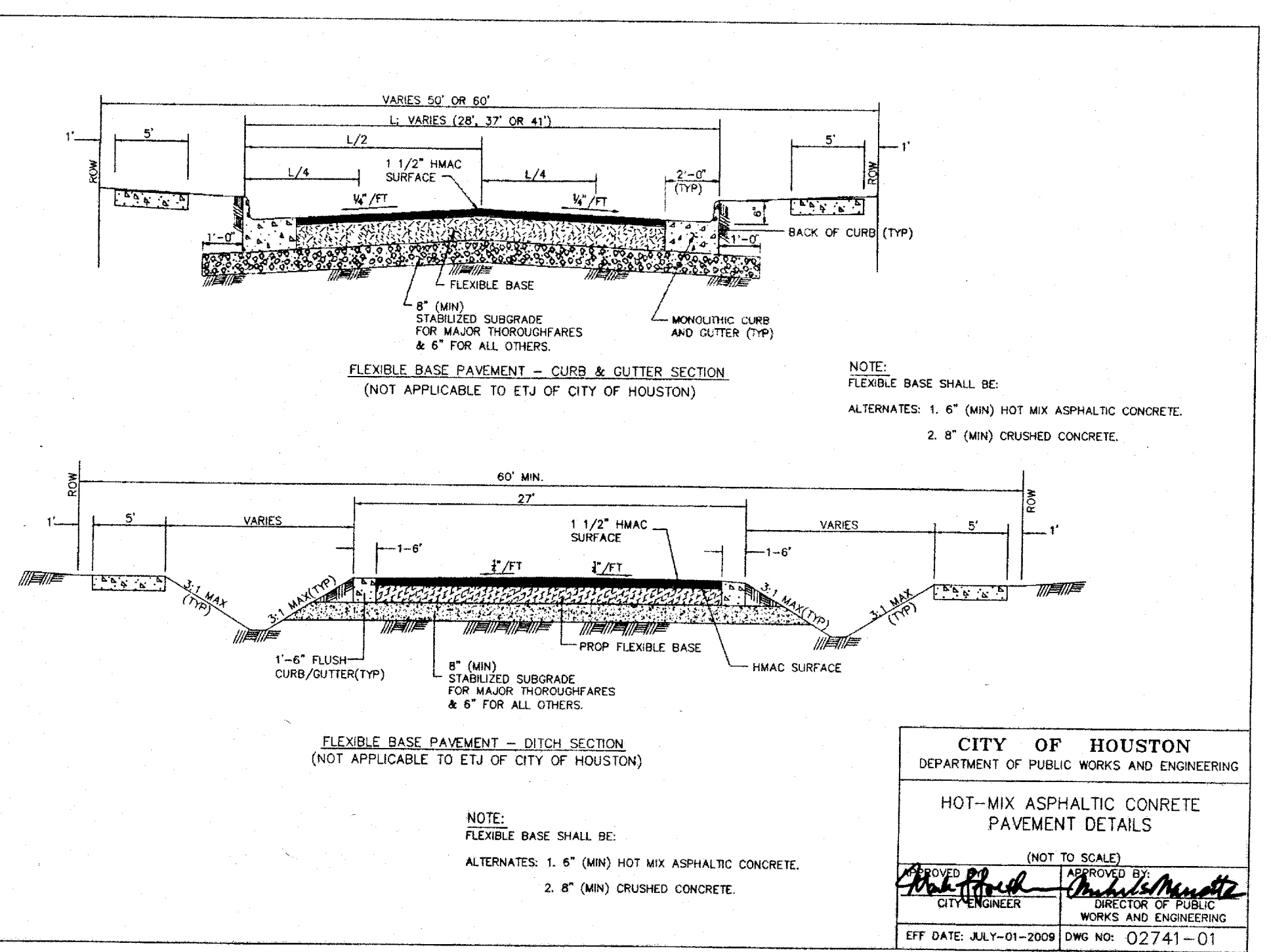
APPROVED BY: [Signature]
DATE: 2-1-94
DRAWN BY: L. BRIDGEMAN
REVISION: FBC-005
FORT BEND COUNTY ENGINEERING DEPARTMENT



APPROVED BY: [Signature]
DATE: 2-1-94
DRAWN BY: L. BRIDGEMAN
REVISION: FBC-005A
FORT BEND COUNTY ENGINEERING DEPARTMENT



APPROVED BY: [Signature]
DATE: 2-1-94
DRAWN BY: L. BRIDGEMAN
REVISION: FBC-006
FORT BEND COUNTY ENGINEERING DEPARTMENT



ASPHALT PAVEMENT DETAILS

BENCHMARK:
FOUND TXDOT BRASS CAP SET IN EAST END OF SOUTH HEADWALL OF CONCRETE BOX CULVERTS (SET OF 5) @ HWY. 99/GRAND PARKWAY & OUTFALL DITCH-SOUTH, 1,800(+/-) WEST OF HARLEM ROAD. ELEVATION = 92.24 (NAVD 88, 2001 ADJUST.)
FLOODPLAIN INFORMATION:
SUBJECT TRACT IS LOCATED IN ZONE "X" UNSHADED, AREA DETERMINED TO BE OUTSIDE THE 500 YEAR FLOODPLAIN, PER FEMA MAP 48157C0140L, DATED APRIL 2, 2014

- NOTES:
1. ALL CURB TO BE 6-INCH UNLESS OTHERWISE SPECIFIED.

RECORD DRAWING

I CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS

BY: _____ DATE: _____
TITLE: _____

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: [Signature]
DEVELOPMENT COORDINATOR
DATE: 5/12/17
REVISION: _____
BY: _____

PLAT NAME: WATERVIEW TOWN CENTER SEC 2
CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD
TURN LANES

STORM SEWER
& PAVING
CONSTRUCTION DETAILS

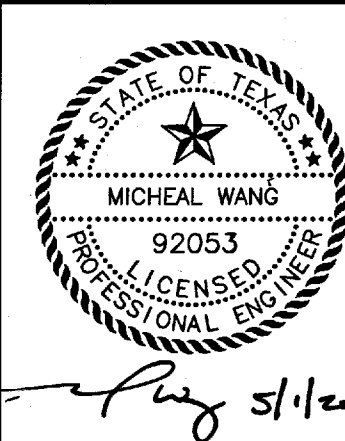
DEDEN SERVICES, LLC
CIVIL ENGINEERING
Texas Registered Engineering Firm F-30971
9328 WESTVIEW
HOUSTON, TX 77055
(713) 461-8822
FAX (713) 461-2671

LJA Engineering, Inc.
2929 Briarpark Drive
Suite 600
Houston, Texas 77042
Phone 713.953.5200
Fax 713.953.5028
FRN - F-1386

LJA PROJECT NO.: 2145-2119

DRAWN: A.B./M.F. DESIGN: A.B./M.F. DATE: APRIL 2017

SCALE: AS SHOWN
SHEET NO. 13 OF 16



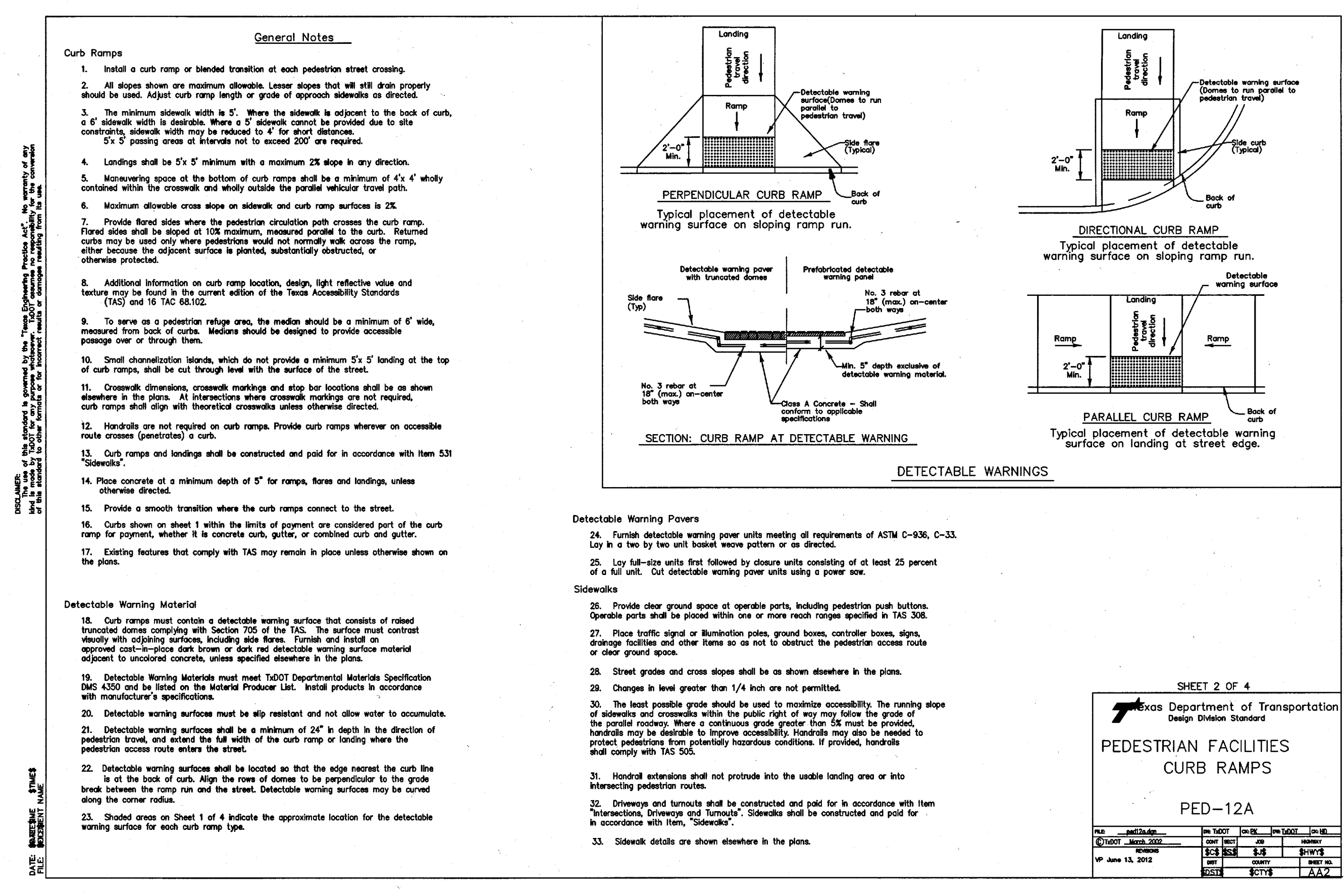
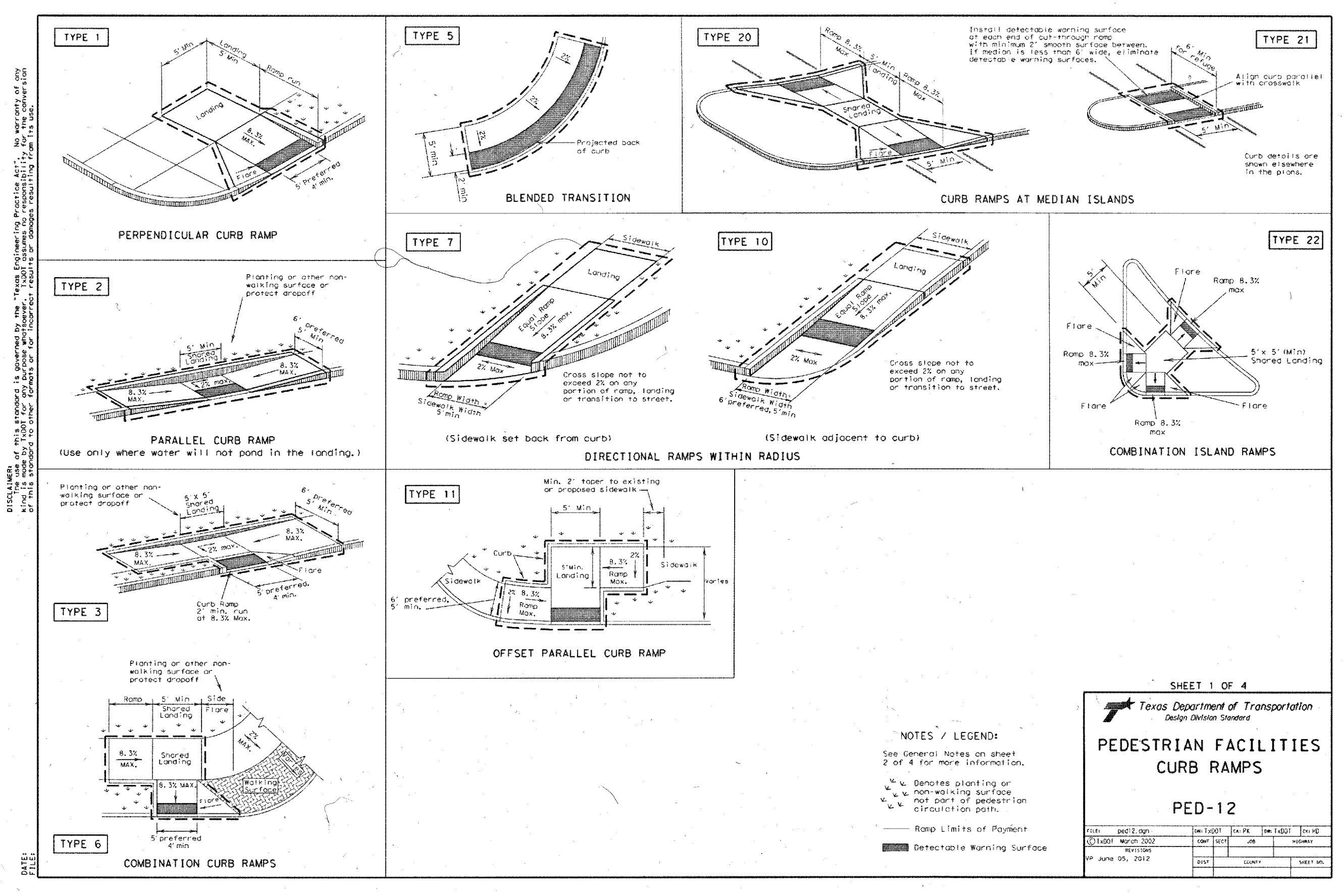
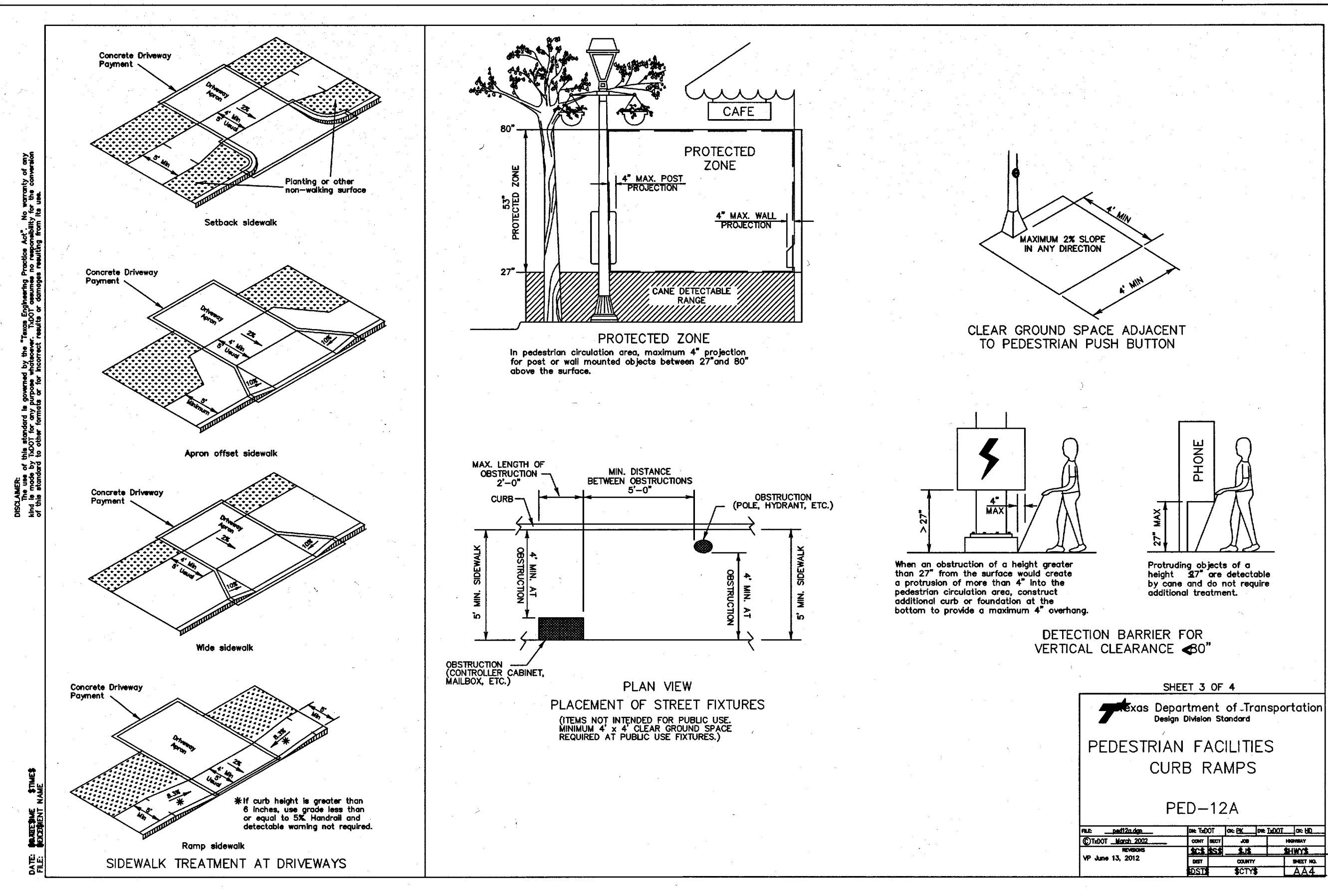
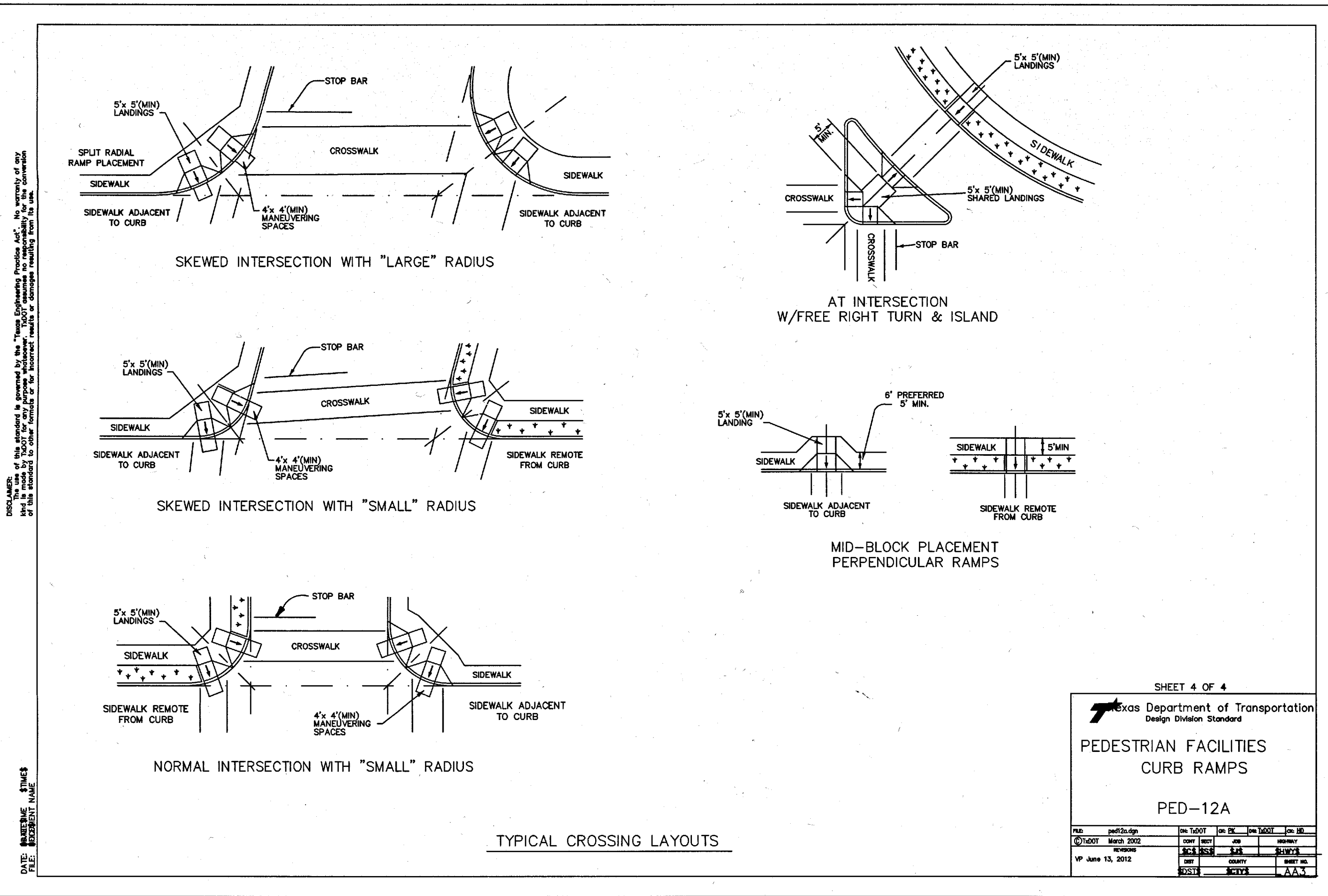
HARLEM ROAD TURN LANES - JOB NO. 2145-2119

DATE: 12/15/2017
DRAWN BY: J. KIRCHHALL
CHECKED BY: J. KIRCHHALL
FILE: PED-12A.dwg

DATE: 12/15/2017
DRAWN BY: J. KIRCHHALL
CHECKED BY: J. KIRCHHALL
FILE: PED-12A.dwg

DATE: 12/15/2017
DRAWN BY: J. KIRCHHALL
CHECKED BY: J. KIRCHHALL
FILE: PED-12A.dwg

DATE: 12/15/2017
DRAWN BY: J. KIRCHHALL
CHECKED BY: J. KIRCHHALL
FILE: PED-12A.dwg



BENCHMARK:
FOUND TXDOT BRASS CAP SET IN EAST END OF SOUTH HEADWALL OF CONCRETE BOX CULVERTS (SET OF 5) @ HWY. 99/GRAND PARKWAY & OUTFALL DITCH-SOUTH, 1,800(+/-) WEST OF HARLEM ROAD, ELEVATION = 92.24 (NAVD 88, 2001 ADJUST.)

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BY: _____ DATE: _____

TITLE: _____

FORT BEND COUNTY ENGINEERING DEPARTMENT

APPROVED: *[Signature]*
DEVELOPMENT COORDINATOR

DATE: 5/12/17

DATE	REVISION	BY

PLAT NAME: WATERVIEW TOWN CENTER SEC 2

CPC 101 FILE NO. 2015-2065

F.B.C.M.U.D. NO. 143

HARLEM ROAD TURN LANES

TXDOT PEDESTRIAN FACILITIES PED-12A

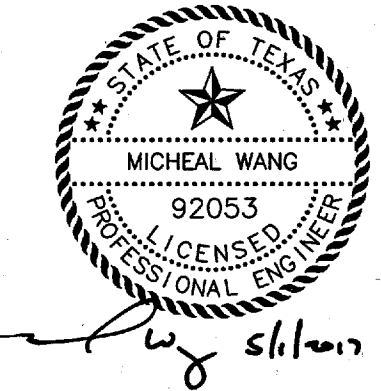
DEDEN SERVICES, LLC
9328 WESTVIEW HOUSTON, TX 77055
CIVIL ENGINEERING (713) 461-8822
Texas Registered Engineering Firm F-10971 FAX (713) 461-2671

LJA Engineering, Inc.
2929 Briarpark Drive Suite 600 Houston, Texas 77042
Phone 713.953.5200 Fax 713.953.5026 FRN-F-1386

LJA PROJECT NO.: 2145-2119

DRAWN: AB/MF. DESIGN: AB/MF. DATE: APRIL 2017

SCALE: AS SHOWN SHEET NO. 16 OF 16



HARLEM ROAD TURN LANES - JOB NO. 2145-2119