

REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT

13D
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: 2018-21205

Applicant: Drymalla Construction Company, Inc.

Job Location Site: 3131 Learning Tree Lane, Rosenberg, TX 77471

Bond No. [REDACTED] **Date of Bond:** 6/18/1999 **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.

On this 26th day of June, 2018, Upon Motion of Commissioner Meyer, 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

By:

County Engineer

Presented to Commissioners Court and approved.

Date Recorded 7-2-2018 Comm. Court No. 13D

Clerk of Commissioners Court

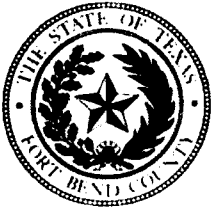
By:

N/A

Drainage District Engineer/Manager

By:

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: 2018-21205

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:

- ☒ a. Name of road, street, and/or drainage ditch affected.
☒ b. Vicinity map showing course of directions
☒ c. Plans and specifications

(2) BOND:

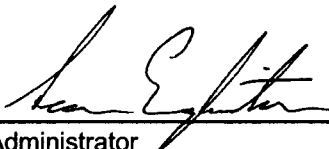
- ☐ County Attorney, approval when applicable.
- ☒ Perpetual bond currently posted. Bond No: [REDACTED] Amount: \$50,000.00
- ☐ Performance bond submitted. Bond No: _____ Amount: _____
- ☐ Cashier's Check Check No: _____ Amount: _____

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

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

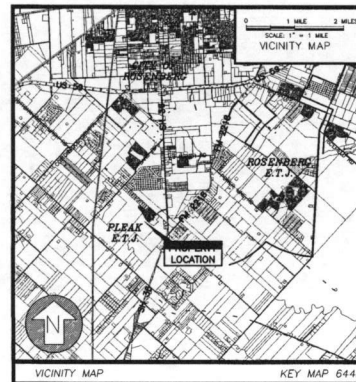


Permit Administrator

6/18/2018

Date

CONSTRUCTION PLANS FOR
LAMAR CONSOLIDATED I.S.D.
THOMAS CULVER ELEMENTARY
 FORT BEND COUNTY, TEXAS



CONSTRUCTION PLANS - SHEET INDEX

SHEET No.	DESCRIPTION
COVER	COVER SHEET
TOPO	TOPOGRAPHIC SURVEY
CI.01	PAVING PLAN
CI.02	GRADING PLAN
CE.01	DRAINAGE PLAN
CE.02	DRAINAGE CALCULATIONS
CS.01	WATER & SANITARY PLAN
CS.02	EROSION CONTROL PLAN
CS.03	EROSION CONTROL DETAILS
CS.04	CONSTRUCTION DETAILS
CS.05	CONSTRUCTION DETAILS
CS.06	CONSTRUCTION DETAILS
CS.07	CONSTRUCTION NOTES & DETAILS

ENGINEER
KELLY R. KALUZA & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND SURVEYORS
 ENGINEERING FIRM No. F-1339
 3014 AVENUE I
 ROSENBERG, TEXAS 77471
 (281) 341-0808

MARCH 2018



FORT BEND COUNTY ENGINEER

ENGINEER: Kelly R. Kaluza, P.E.
 DATE: 5/31/18

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

APPROVED: [Signature]
 DEVELOPMENT COORDINATOR

DATE: 5-31-18

ARM LAND INVESTMENTS, L.P.
PO BOX 377000
DALLAS, TEXAS 75237

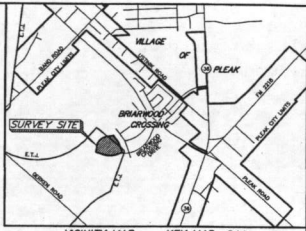
ARM LAND INVESTMENTS, L.P.
PO BOX 377000
DALLAS, TEXAS 75237

ARM LAND INVESTMENTS, L.P.
PO BOX 377000
DALLAS, TEXAS 75237

BRIARWOOD CROSSING
SECTION 8
C.C.F. NO. 20160277
P.F.B.C.T.

BRIARWOOD CROSSING
SECTION 8
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P.F.B.C.T.

BRIARWOOD CROSSING
SECTION 8
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P.F.B.C.T.



- GENERAL NOTES:
- The tract lies within Zone "C" of the Flood Insurance Rate Map, Community No. 480226, Zone Number 000200000, Panel 000, South "C", dated April 3, 2014 for Fort Bend County, Texas and surrounding areas. Zone "C" is defined as areas determined to be outside the 0.2% annual chance floodplain.
 - This flood statement does not imply that the property or structures thereon will be free from flooding or flood damage. On rare occasions floods can occur and water and flood damage may be increased by improper or partial insurance. The flood statement shall not constitute insurance in any way.
 - The location of the flood zone lines shown herein were determined by reading from a FEMA map. The actual location as determined by elevation contours may differ and/or change because of changes in the accuracy of the flood zone lines.
 - Readings are based upon the Texas Coordinate System, South Central Zone, NAD83, based upon GPS observations.
 - The surveyor has not been provided with construction plans showing the location of underground utilities. Underground utilities may exist which are not shown herein.
 - Elevations shown herein are based on NGS Monument 2179, located 4.45 miles south along State Highway 29, 0.25 mile south of the junction of P&H Highway 2129 or Pleak, at the junction of Lovers Road northwest. In the top and 1.8 feet south of the north end of the road corners located at a 1/2 mile distance from the north end of the road and at the junction of the highway 1/2 mile south of the centerline of the road and about 1/2 mile higher than the highway with a published elevation of 84.77 (NAVD83).
 - Temporary Benchmark "A" being a nail "X", located in the top of a curb as shown herein. Elevation = 87.82 (NAVD83).
 - Temporary Benchmark "B" being a nail "X", located on top of an tree as shown herein. Elevation = 85.77.
 - Underground utilities shown herein are based on available public information.
 - The tract is located partially within the E.T.A. of the Village of Pleak.

1. SANITARY MANHOLE
RM = 86.37
FL 8" PFC (N) = 78.11
FL 8" PFC (S) = 78.11
2. STORM MANHOLE
RM = 86.37
FL 24" RCP (N) = 80.37
FL 24" RCP (S) = 80.37
3. STORM MANHOLE
RM = 86.37
FL 24" RCP (N) = 84.87
FL 24" RCP (S) = 80.45
4. STORM MANHOLE
RM = 86.37
FL 24" RCP (N) = 84.87
FL 24" RCP (S) = 81.15
5. STORM MANHOLE
RM = 86.37
FL 24" RCP (N) = 79.87
FL 24" RCP (S) = 77.37
6. STORM MANHOLE
RM = 86.37
FL 24" RCP (N) = 77.37
FL 24" RCP (S) = 77.37
7. STORM MANHOLE
RM = 86.37
FL 24" RCP (N) = 77.37
FL 24" RCP (S) = 77.37
8. SANITARY MANHOLE
RM = 86.37
FL 12" PFC (N) = 88.47
FL 12" PFC (S) = 88.47
9. SANITARY MANHOLE
RM = 86.37
FL 8" PFC (N) = 88.87
FL 8" PFC (S) = 88.87

Subject to the General Notes above:

We, Jones & Carter, acting by and through Chris D. Kuhnert, a Registered Professional Land Surveyor, hereby certify that the above information was obtained from a survey of the property and is true and correct to the best of our knowledge and belief.

Chris D. Kuhnert
Registered Professional Land Surveyor
No. 35869
cjk@jonesandcarter.com

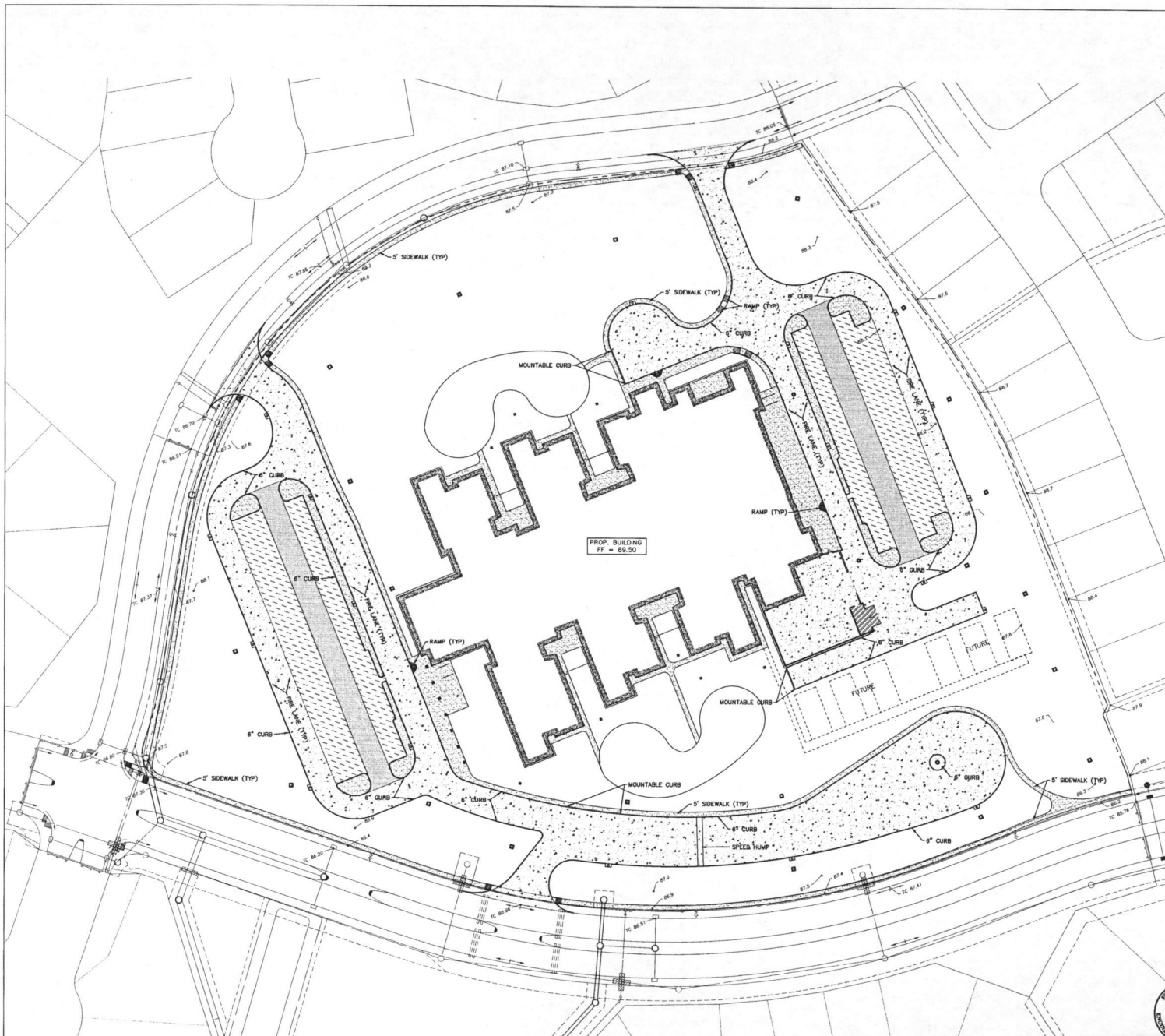
Surveyed: 01-08-18



TOPOGRAPHIC SURVEY
OF
14.00 ACRES
OUT OF THE
ANGUS J. JAMES SURVEY, ABSTRACT 37
FORT BEND COUNTY, TEXAS
JANUARY 2018

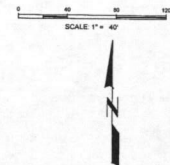
JONES & CARTER

See Book of Professional and Surveying Regulations, No. 000000
9415 Raveling Road • Kearsburg, Texas 77625 • (281) 362-2000



LEGEND

—	CONTOUR
—	DETENTION TOP BANK
—	DETENTION TOE OF SLOPE
▨	8" PAVEMENT FOR DUMPER
▨	7" CONCRETE PAVEMENT
▨	6" CONCRETE PAVEMENT
▨	5" CONCRETE PAVEMENT
▨	4.5" CONCRETE SIDEWALK



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January 17, 2018

REVISIONS

Revision No.

Director
T.A.
 Designer
TSA
 Proj. Arch.
RJS

Drawn By
STA
 Quality Control
STAFF

PROJECT
1624.00

SHEET

PAVING PLAN

SHEET NO.

C1.01

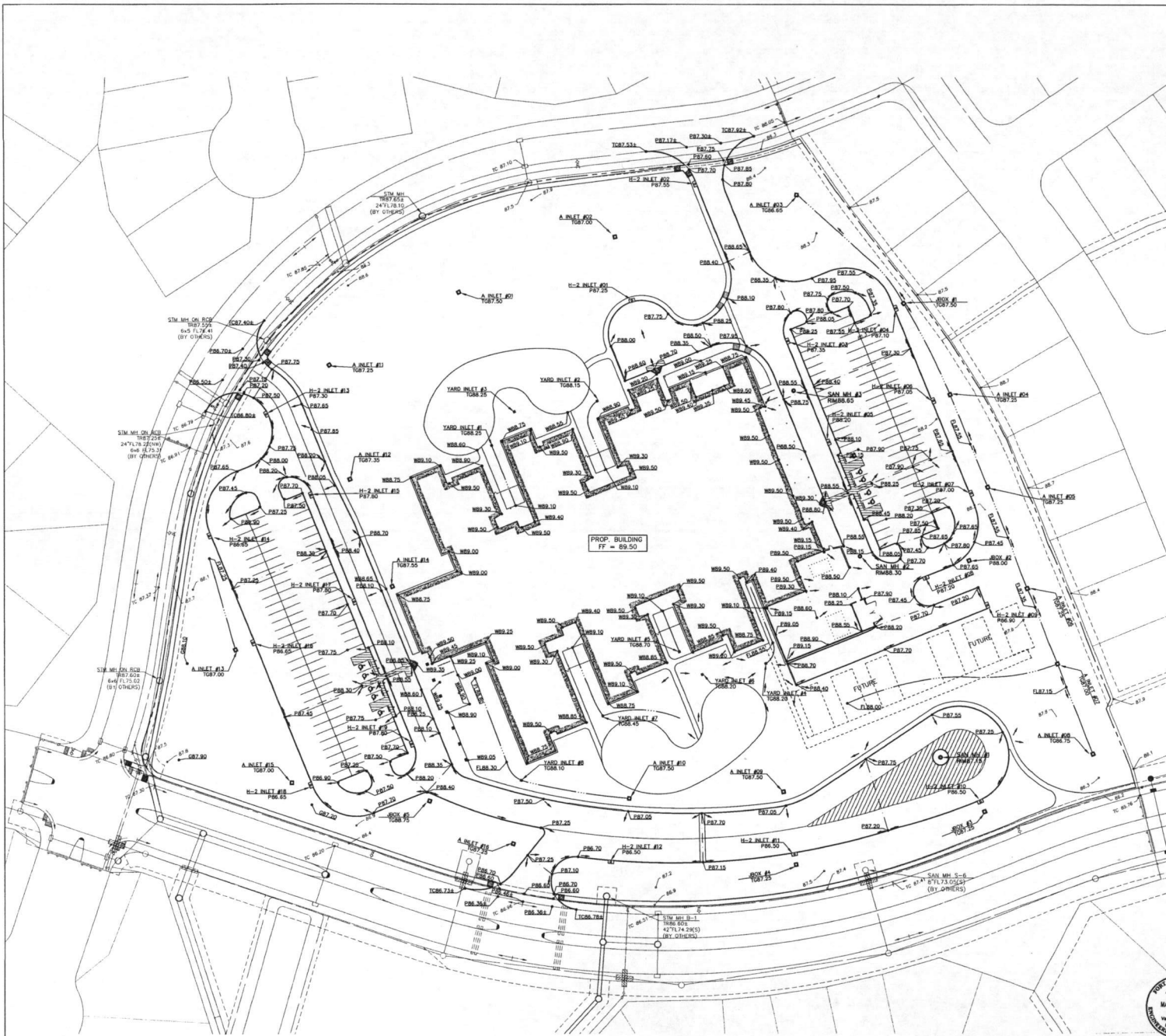
Kelly R. Kaluza & Associates, Inc.
 CONSULTING ENGINEERS & SURVEYORS
 ENGINEERING FIRM No. P-13309
 SURVEYING FIRM No. 105000000
 3014 AVENUE I
 ROSENBERG, TEXAS 77471
 PH: 281.341.0800 FAX: 281.341.8333

APPROVED: _____
 DEVELOPMENT COORDINATOR

DATE: _____



THOMAS R. CULVER, III ELEMENTARY SCHOOL
 CSP # 05-2018VRG



LEGEND

P100.00	PAYMENT ELEVATION
P100.00	SIDEWALK ELEVATION
P100.00	TOP OF CURB ELEVATION
P100.00	FINISHED ELEVATION
P100.00	FLOWLINE ELEVATION
P100.00	TOP GRADE
TO	TOP OF
FL	FLOWLINE
DS	DOWN SPOUT
RD	ROOF DRAIN
RDC	ROOF DRAIN COLLECTOR
C.D.	CLEAN OUT
TS&V	TAPPING BLEVE AND VALVE

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January 17, 2018

REVISIONS

Revision No.	By	Date
1	STA	1/17/18

Director: STA
Drawn By: STA
Designer: TSA
Quality Control: STAFF
Proj. Arch: RUS

PROJECT
1624.00

SHEET

GRADING PLAN

SHEET NO.

C1.02

APPROVED: _____
DATE: _____
DEVELOPMENT COORDINATOR

Kelly R. Kaluza & Associates, Inc.
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SURVEYING FIRM No. 10010005
3014 AVENUE I
ROSENBERG, TEXAS 77471
PH. 281.341.0808 FAX 281.341.8393

POST BIND COUNTY
APPROVED
MAY 31 2018
Voted One Year
Term Expires
GRADING DEPARTMENT

THOMAS R. CULVER, III ELEMENTARY SCHOOL
CSP # 05-2018VRG

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www.pascheco.com

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DESIGN WITH ALL OTHERS INVOLVED IN THE PROJECT.



January 17, 2016
REVISIONS
Revision No.

Director: T.A.
Designer: TSA
Proj. Arch: RUS

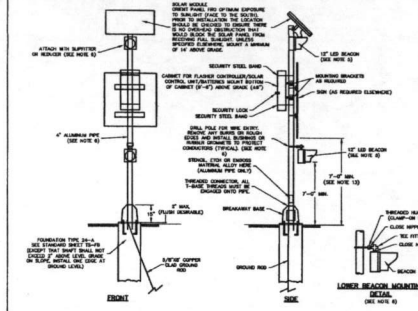
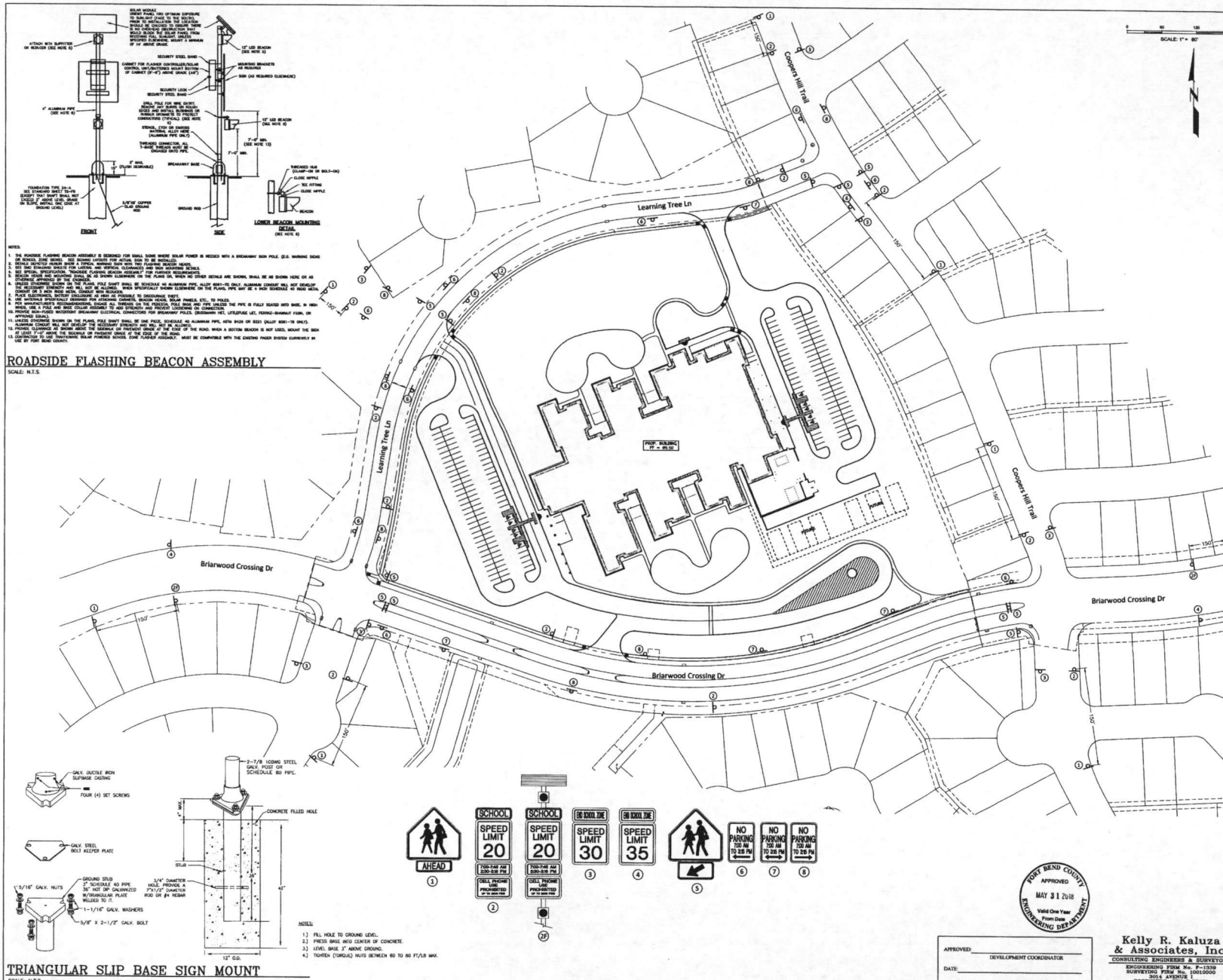
Drawn By: STA
Quality Control: STAFF

PROJECT
1624.00
SHEET
SCHOOL ZONE SIGNAGE PLAN
SHEET NO.

C1.03

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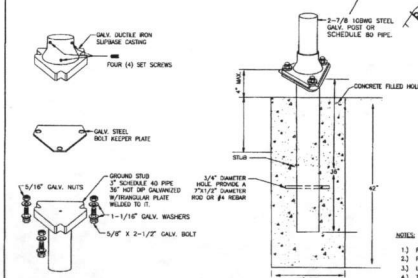
THOMAS R. CULVER, III ELEMENTARY SCHOOL
CSP # 05-2016VRG



- NOTES:**
1. THE ABOVE FLASHING BEACON ASSEMBLY IS DESIGNED FOR 12VDC BATTERY POWER. THE BATTERY POWER IS PROVIDED WITH A BATTERY BACK-UP (B.B.U.) BATTERY BANK ON HAND. THE BATTERY BANK IS TO BE MAINTAINED AT ALL TIMES.
 2. THE BATTERY BANK IS TO BE MAINTAINED AT ALL TIMES.
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 7. THE BATTERY BANK IS TO BE MAINTAINED AT ALL TIMES.
 8. THE BATTERY BANK IS TO BE MAINTAINED AT ALL TIMES.

ROADSIDE FLASHING BEACON ASSEMBLY

SCALE: N.T.S.



- NOTES:**
1. FILL HOLE TO GROUND LEVEL.
 2. FRESH BRUSH WITH CONCRETE.
 3. LEVEL BRUSH 3" ABOVE GROUND.
 4. TURNER (TORNADO) NUTS TO BE 80 TO 80 FT/1.5 MAX.

TRIANGULAR SLIP BASE SIGN MOUNT

SCALE: N.T.S.

APPROVED: _____
DATE: _____
DEVELOPMENT COORDINATOR



Kelly R. Kaluza & Associates, Inc.
CONSULTING ENGINEERS & SURVEYORS
ENGINEERING: 2014 P.E. # 12345
SURVEYING: 2014 P.S. # 10010000
10010000
HOUSTON, TEXAS 77041
P.O. BOX 344,008 FAX: 281.341.0333



LEGEND

TO	TOP GRADE
TR	TOP RIM
FL	FLUSHLINE
DS	DOWN SPOUT
RD	ROOF DRAIN
RDC	ROOF DRAIN COLLECTOR
---	STORM SEWER
---	SANITARY FORCE MAIN
---	SANITARY WATER MAIN
---	WATERLINE
---	DRAINAGE DRALE
---	DRAINAGE AREA BOUNDARY
---	DIRECTIONAL FLOW OF RUNOFF
□	TYPE A INLET
□	TYPE H-2 CURB INLET
□	TYPE E INLET
□	YARD INLET
○	STORM MANHOLE
○	DRAINAGE AREA DESIGNATION
○	AREA (ACRES)
○	SANITARY MANHOLE

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REVISIONS

Revision No.	Description	Date
1	APPENDIX #3	2.12.18

Director: T.J. STA
 Designer: Quality Control
 TGA
 Proj. Arch: RJS

PROJECT
1624.00

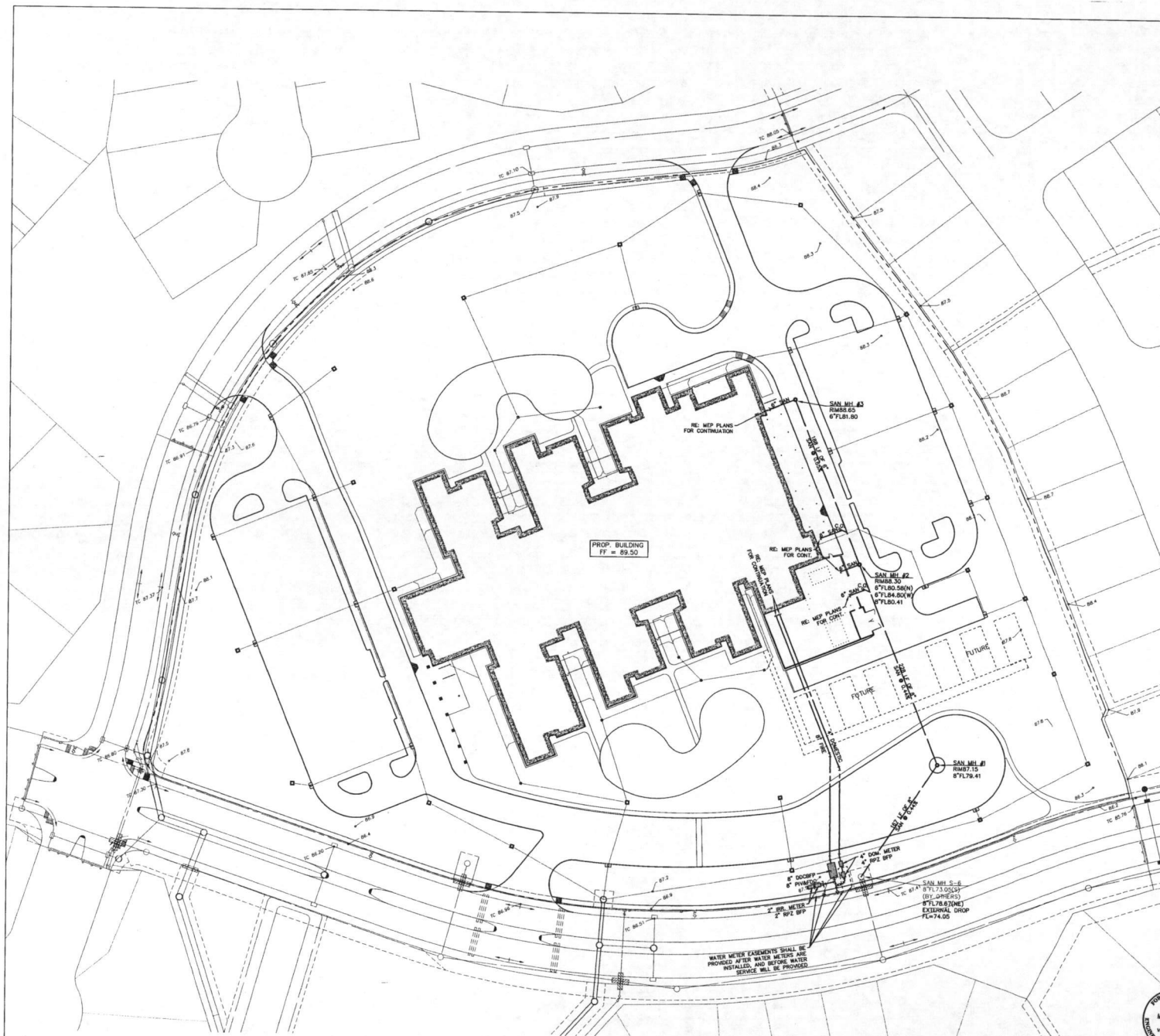
SHEET
DRAINAGE PLAN

SHEET NO.
C2.01

APPROVED: _____
 DEVELOPMENT COORDINATOR

DATE: _____

Kelly R. Kaluza & Associates, Inc.
 CONSULTING ENGINEERS & SURVEYORS
 ENGINEERING FIRM No. F-1329
 SURVEYING FIRM No. S-0010205
 3014 AVENUE
 HOUSTON, TEXAS 77057
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LEGEND

TD	TOP DRAIN
TR	TOP RIM
FL	FLOWLINE
DS	DOWN SPOUT
RD	ROOF DRAIN
RDC	ROOF DRAIN COLLECTOR
---	STORM SEWER
---	SANITARY SEWER
---	SANITARY FORCE MAIN
---	WATERLINE
■	TYPE A INLET
□	TYPE H-2 CURB INLET
□	(SEE DETAIL)
■	TYPE E INLET
■	YARD INLET
○	STORM MANHOLE
○	SANITARY MANHOLE

FIGURE NO. 5 NOTES:

- CONTRACTOR TO CONTACT THE DISTRICT'S OPERATOR, GREG DUNN, WITH MATERIAL OPERATIONS & CONSULTING AT (281) 820-2444, 72 HOURS PRIOR TO CONSTRUCTION FOR WATER TAPS, VALVES, ETC. AS FOR THE DISTRICT RATE ORDER.



APPROVED: _____
DEVELOPMENT COORDINATOR
DATE: _____

Kelly R. Kaluza & Associates, Inc.
CONSULTING ENGINEERS & SURVEYORS
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SURVEYING FIRM NO. 10040000
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Elaine H. Whitehead
January 17, 2018

REVISIONS
Revision No. _____

Director: T.J. STA
Designer: Quality Control
TSA
Proj. Arch: STAFF
RJS

PROJECT
1624.00

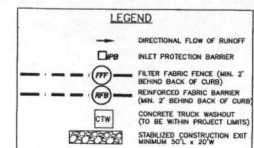
SHEET

WATER & SANITARY PLAN

SHEET NO.
C3.01

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THOMAS R. CULVER, III ELEMENTARY SCHOOL
CSP # 05-2018VRG



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www.kalykalya.com

STRUCTURAL

Matrix Structural Engineers

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www.matrixstructural.com

INDEPENDENT

M.E.P.
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January 17, 2018
REVISIONS
Revision No.

Director TJL	Drawn By STA
Designer TSA	Quality Control STAFF
Proj. Arch. RJS	

PROJECT	1624.00	THOMAS CSP # 05-2018/RV
SHEET		
EROSION CONTROL PLAN		
SHEET NO.		

C4.01

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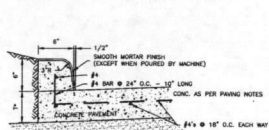
APPROVED: _____
DEVELOPMENT COORDINATOR

DATE: _____



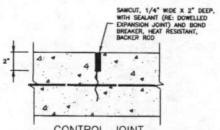
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& Associates, Inc.**
CONSULTING ENGINEERS & SURVEYORS
ENGINEERING FIRM No. F-1339
SURVEYING FIRM No. 10010000
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THOMAS R. CULVER, III ELEMENTARY SCHOOL
-SP # 05-2018VRG



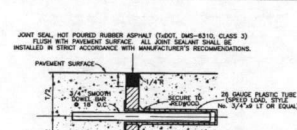
CONCRETE CURB AND PAVEMENT
SCALE: N.T.S.

NOTES:
1. NOT FINISH NOT REQUIRED WHEN CURB IS POURED BY A MACHINE, BUT CURB WILL HAVE THE SAME OUTSIDE DIMENSIONS.
2. WHEN CONCRETE CURB IS TO BE PLACED ON EXISTING C&G, CURB SHALL BE SET IN EXISTING C&G. CURB SHALL BE 1/2\"/>



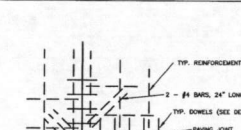
CONSTRUCTION JOINT
SCALE: N.T.S.

NOTES:
1. NOT FINISH NOT REQUIRED WHEN CURB IS POURED BY A MACHINE, BUT CURB WILL HAVE THE SAME OUTSIDE DIMENSIONS.
2. WHEN CONCRETE CURB IS TO BE PLACED ON EXISTING C&G, CURB SHALL BE SET IN EXISTING C&G. CURB SHALL BE 1/2\"/>



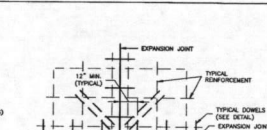
DOWELED EXPANSION JOINT
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



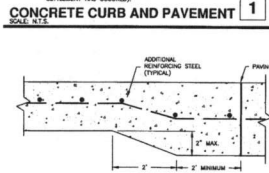
BLOCKOUT REINFORCEMENT
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



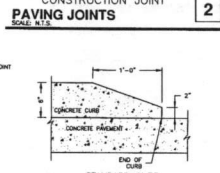
ADDITIONAL REINFORCEMENT
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



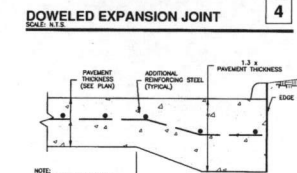
PAVEMENT THICKNESS TRANSITION
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



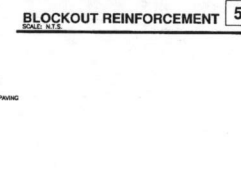
CONCRETE CURB END
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



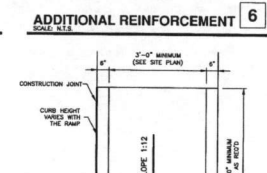
PAVEMENT - THICKENED EDGE
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



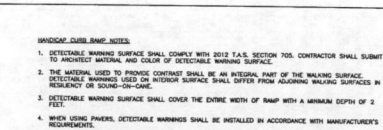
HANDICAP CURB RAMP
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



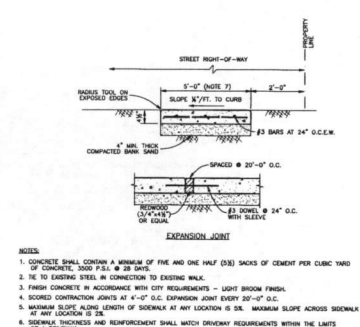
HANDICAP CURB RAMP
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



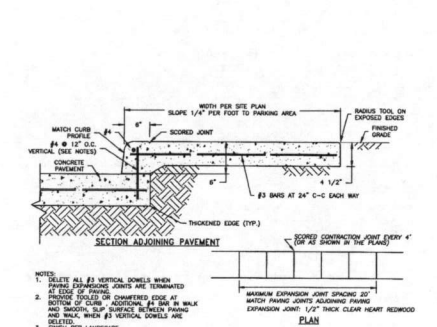
HANDICAP CURB RAMP - FLARED
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



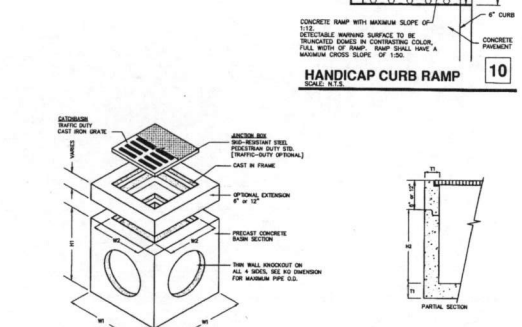
CONCRETE SIDEWALK
SCALE: N.T.S.

NOTES:
1. CONCRETE SHALL CONTAIN A MINIMUM OF FIVE (5) BAGS OF CEMENT PER CUBIC YARD OF CONCRETE, 3000 P.S.I. @ 28 DAYS.
2. REINFORCING STEEL IN CONCRETE TO BE SETTING WALL.
3. FINISH CONCRETE IN ACCORDANCE WITH CITY REQUIREMENTS - LIGHT BROOM FINISH.
4. SCURED CONSTRUCTION JOINTS AT 4\"/>



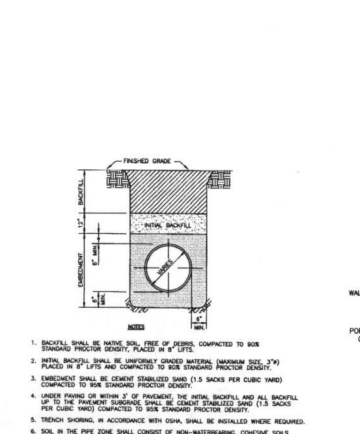
CONCRETE SIDEWALK (PRIVATE) @ PAVEMENT
SCALE: N.T.S.

NOTES:
1. CONCRETE SHALL CONTAIN A MINIMUM OF FIVE (5) BAGS OF CEMENT PER CUBIC YARD OF CONCRETE, 3000 P.S.I. @ 28 DAYS.
2. REINFORCING STEEL IN CONCRETE TO BE SETTING WALL.
3. FINISH CONCRETE IN ACCORDANCE WITH CITY REQUIREMENTS - LIGHT BROOM FINISH.
4. SCURED CONSTRUCTION JOINTS AT 4\"/>



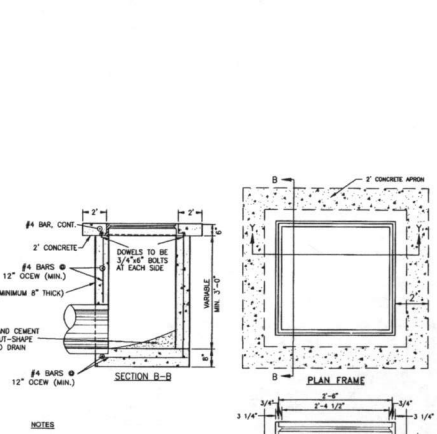
PRECAST CONCRETE CATCH BASIN / JUNCTION BOX
SCALE: N.T.S.

NOTES:
1. CONCRETE SHALL CONTAIN A MINIMUM OF FIVE (5) BAGS OF CEMENT PER CUBIC YARD OF CONCRETE, 3000 P.S.I. @ 28 DAYS.
2. REINFORCING STEEL IN CONCRETE TO BE SETTING WALL.
3. FINISH CONCRETE IN ACCORDANCE WITH CITY REQUIREMENTS - LIGHT BROOM FINISH.
4. SCURED CONSTRUCTION JOINTS AT 4\"/>



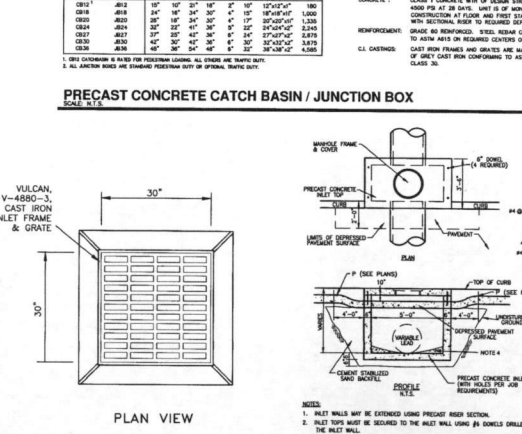
STORM AND SANITARY SEWER BEDDING AND BACKFILL
SCALE: N.T.S.

NOTES:
1. CONCRETE SHALL CONTAIN A MINIMUM OF FIVE (5) BAGS OF CEMENT PER CUBIC YARD OF CONCRETE, 3000 P.S.I. @ 28 DAYS.
2. REINFORCING STEEL IN CONCRETE TO BE SETTING WALL.
3. FINISH CONCRETE IN ACCORDANCE WITH CITY REQUIREMENTS - LIGHT BROOM FINISH.
4. SCURED CONSTRUCTION JOINTS AT 4\"/>



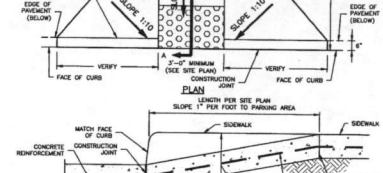
TYPE 'A-1' INLET
SCALE: N.T.S.

NOTES:
1. CONCRETE SHALL CONTAIN A MINIMUM OF FIVE (5) BAGS OF CEMENT PER CUBIC YARD OF CONCRETE, 3000 P.S.I. @ 28 DAYS.
2. REINFORCING STEEL IN CONCRETE TO BE SETTING WALL.
3. FINISH CONCRETE IN ACCORDANCE WITH CITY REQUIREMENTS - LIGHT BROOM FINISH.
4. SCURED CONSTRUCTION JOINTS AT 4\"/>



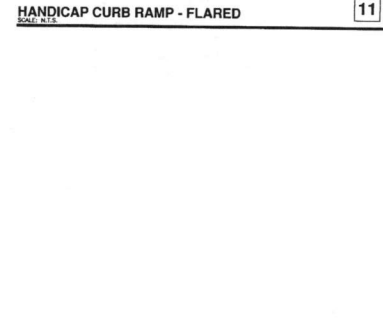
TYPE 'H-2' INLET
SCALE: N.T.S.

NOTES:
1. CONCRETE SHALL CONTAIN A MINIMUM OF FIVE (5) BAGS OF CEMENT PER CUBIC YARD OF CONCRETE, 3000 P.S.I. @ 28 DAYS.
2. REINFORCING STEEL IN CONCRETE TO BE SETTING WALL.
3. FINISH CONCRETE IN ACCORDANCE WITH CITY REQUIREMENTS - LIGHT BROOM FINISH.
4. SCURED CONSTRUCTION JOINTS AT 4\"/>



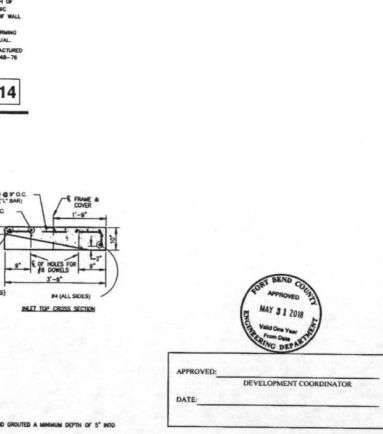
HANDICAP CURB RAMP
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



HANDICAP CURB RAMP
SCALE: N.T.S.

NOTES:
1. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB PROJECTIONS. JOINTS SHALL BE ALIGNED IN THE DIRECTION OF FLOW OF TRAFFIC.
2. STAYS FOR TRANSVERSE JOINTS SHALL NOT BE PLACED TOP OF CURB. STAYS SHALL BE LESS THAN 2\"/>



HANDICAP CURB RAMP
SCALE: N.T.S.

NOTES:
1. CONCRETE SHALL CONTAIN A MINIMUM OF FIVE (5) BAGS OF CEMENT PER CUBIC YARD OF CONCRETE, 3000 P.S.I. @ 28 DAYS.
2. REINFORCING STEEL IN CONCRETE TO BE SETTING WALL.
3. FINISH CONCRETE IN ACCORDANCE WITH CITY REQUIREMENTS - LIGHT BROOM FINISH.
4. SCURED CONSTRUCTION JOINTS AT 4\"/>

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January 17, 2018

REVISIONS

Revision No.	Description
1	As Noted

Director: T.A. Designer: T.A. Proj. Arch: RUS

PROJECT
1624.00

SHEET
CONSTRUCTION DETAILS

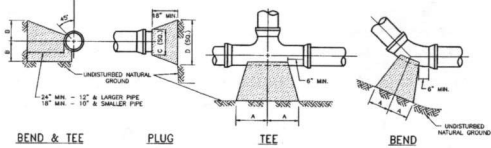
SHEET NO.
C5.01

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SURVEYING FIRM NO. L00000000
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TABLE P-1 - TRENCH SHORING - MINIMUM REQUIREMENTS

DEPTH OF EXCAVATION	SLOPE OF EXCAVATION	TRENCH SHORING OF EXCAVATION									
		SPACING	HEIGHT	WIDTH	DEPTH	WIDTH	DEPTH	WIDTH	DEPTH	WIDTH	DEPTH
1 TO 10	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
10 TO 15	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
15 TO 20	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
20 TO 25	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
25 TO 30	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
30 TO 35	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
35 TO 40	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
40 TO 45	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
45 TO 50	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
50 TO 55	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
55 TO 60	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
60 TO 65	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
65 TO 70	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
70 TO 75	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
75 TO 80	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
80 TO 85	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
85 TO 90	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
90 TO 95	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX
95 TO 100	1:1	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX	10' MAX

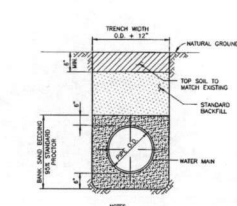
1. TRENCH SHORING SHALL BE DESIGNED TO RESIST THE FULL WEIGHT OF THE EXCAVATION AND THE WEIGHT OF THE SOIL AND ROCKS TO BE EXCAVATED.
2. TRENCH SHORING SHALL BE DESIGNED TO RESIST THE FULL WEIGHT OF THE EXCAVATION AND THE WEIGHT OF THE SOIL AND ROCKS TO BE EXCAVATED.
3. TRENCH SHORING SHALL BE DESIGNED TO RESIST THE FULL WEIGHT OF THE EXCAVATION AND THE WEIGHT OF THE SOIL AND ROCKS TO BE EXCAVATED.



SIZE	1\"/>
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THRUST BLOCK

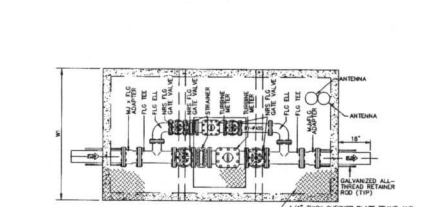
SCALE: 1/4\"/>



1. BACKFILL SHALL BE MADE SOIL, FREE OF DEBRIS, PLACED IN 12\"/>

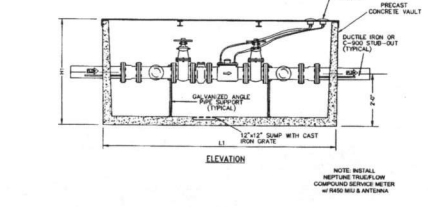
WATER MAIN BEDDING AND BACKFILL

SCALE: 1/4\"/>



DOMESTIC 4\"/>

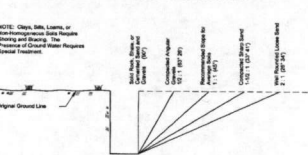
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DOMESTIC 4\"/>

SCALE: 1/4\"/>

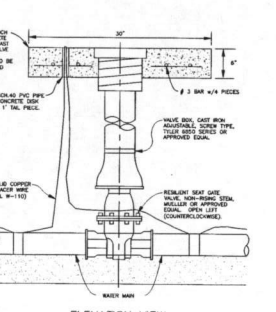
APPROXIMATE ANGLE OF REPOSE FOR SLOPING SIDES OF EXCAVATION



1. Slopes more than 1:1 but less than 1 1/2:1 shall be sloped, well back to a stable slope, or some other equivalent means of protection shall be provided when excavating shall be required to be sloped in soil or rock. Refer to Table 7.1 for a guide to the angle of repose. Trenches less than 1:1 but less than 1 1/2:1 shall be sloped, well back to a stable slope, or some other equivalent means of protection shall be provided when excavating shall be required to be sloped in soil or rock. Refer to Table 7.1 for a guide to the angle of repose.
2. Slopes of trenches to be excavated in soil or rock shall be sloped, well back to a stable slope, or some other equivalent means of protection shall be provided when excavating shall be required to be sloped in soil or rock. Refer to Table 7.1 for a guide to the angle of repose.
3. Slopes of trenches to be excavated in soil or rock shall be sloped, well back to a stable slope, or some other equivalent means of protection shall be provided when excavating shall be required to be sloped in soil or rock. Refer to Table 7.1 for a guide to the angle of repose.
4. Minimum cover for trenching and shoring shall be 12\"/>

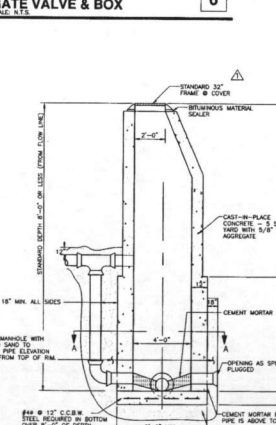
DOUBLE DETECTOR CHECK BACKFLOW PREVENTER ASSEMBLY

SCALE: 1/4\"/>



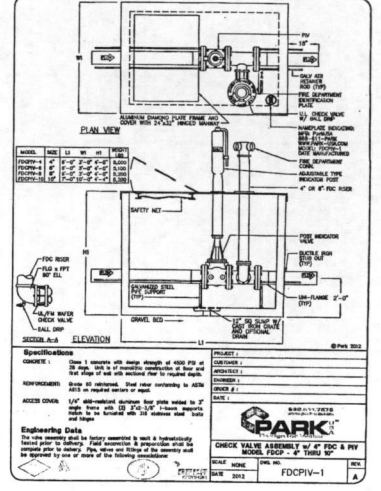
GATE VALVE & BOX

SCALE: 1/4\"/>



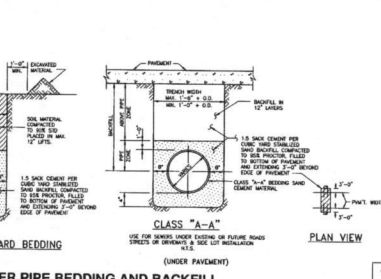
SANITARY SEWER MANHOLE

SCALE: 1/4\"/>



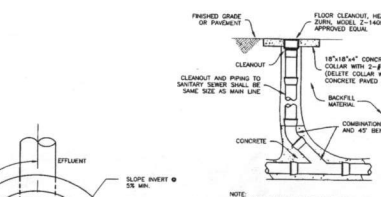
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SCALE: 1/4\"/>



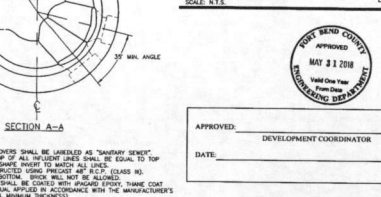
SANITARY SEWER PIPE BEDDING AND BACKFILL

SCALE: 1/4\"/>



CLEAN OUT

SCALE: 1/4\"/>



SANITARY SEWER MANHOLE

SCALE: 1/4\"/>



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REVISIONS
Revision No. 1
ADDENDUM #3 2.12.18

REVISIONS
Revision No. 1
ADDENDUM #3 2.12.18

REVISIONS
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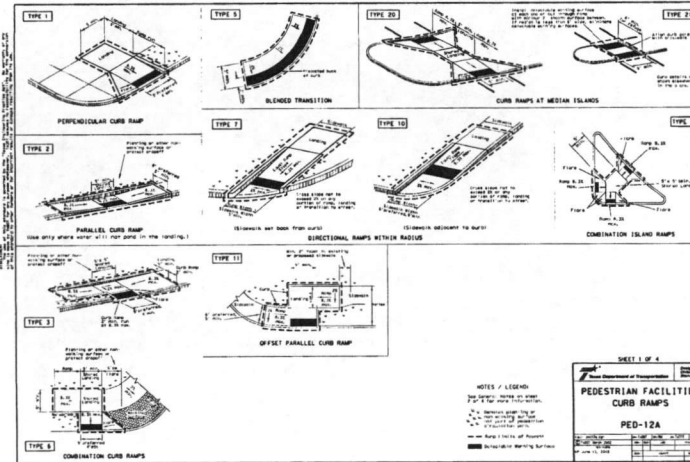
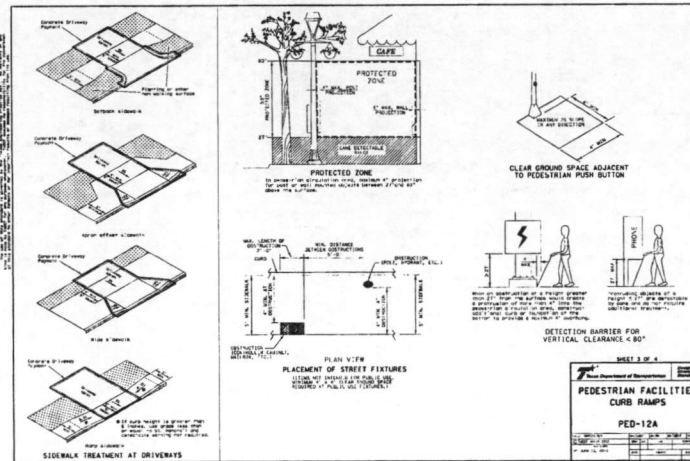
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