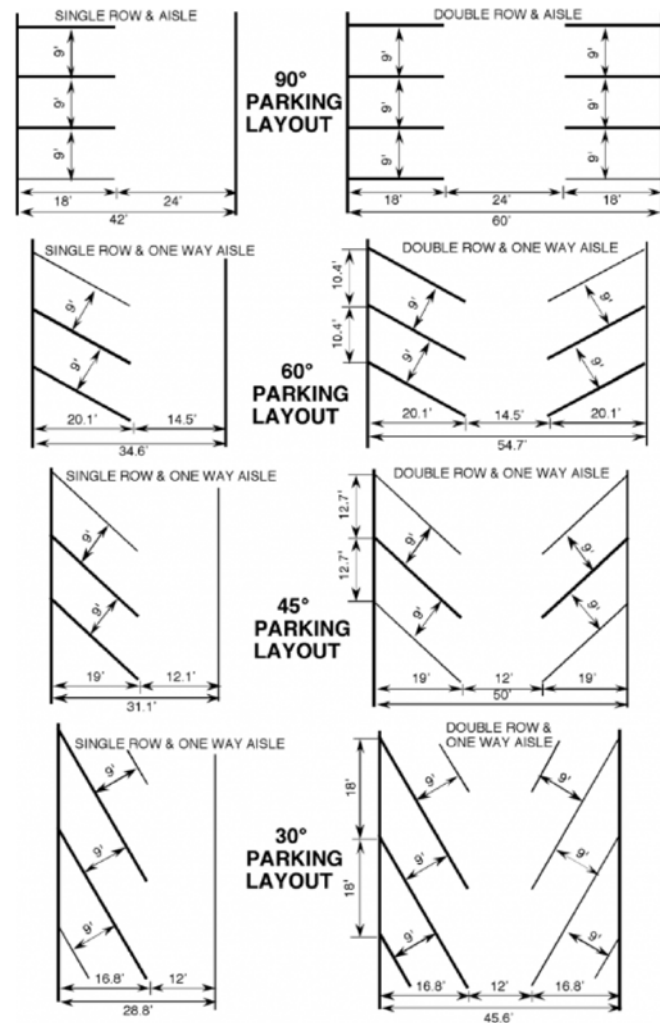
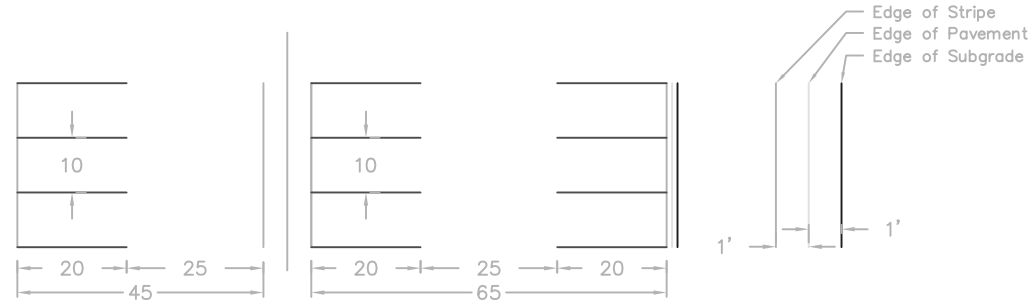




# HARRIS COUNTY PRECINCT 3

Office of Commissioner Tom S. Ramsey, P.E.





Van Accessible

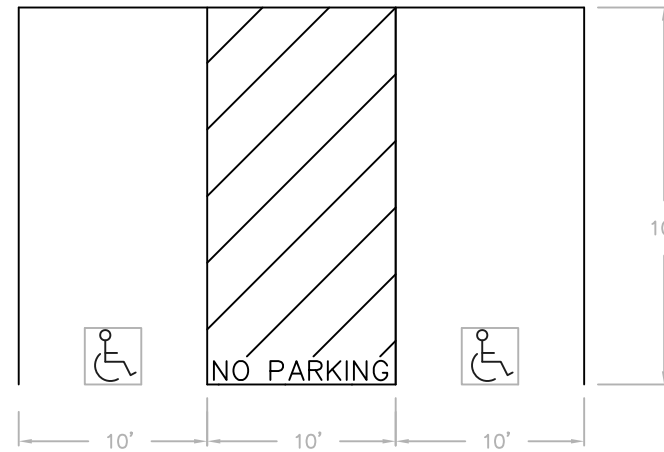
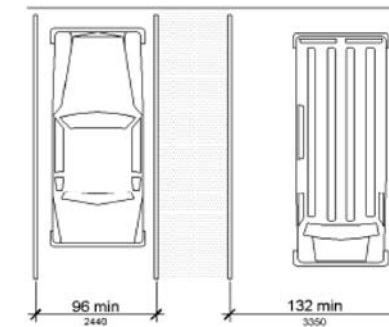


Table 208.2 Parking Spaces

Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.

EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.



Advisory 502.3 Access Aisle. Accessible routes must connect parking spaces to accessible entrances. In parking facilities where the accessible route must cross vehicular traffic lanes, marked crossings enhance pedestrian safety, particularly for people using wheelchairs and other mobility aids. Where possible, it is preferable that the accessible route not pass behind parked vehicles.

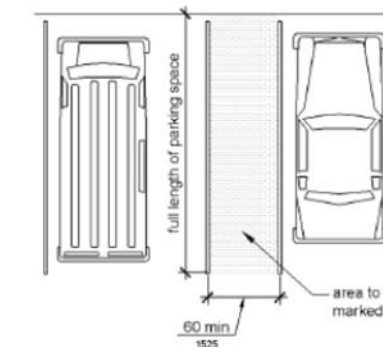


Figure 502.3 Parking Space Access Aisle

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

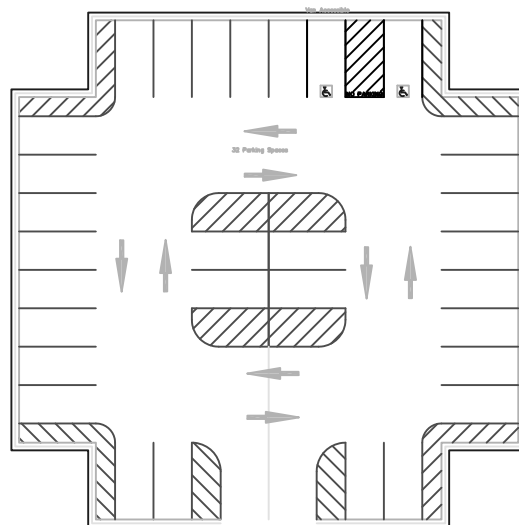
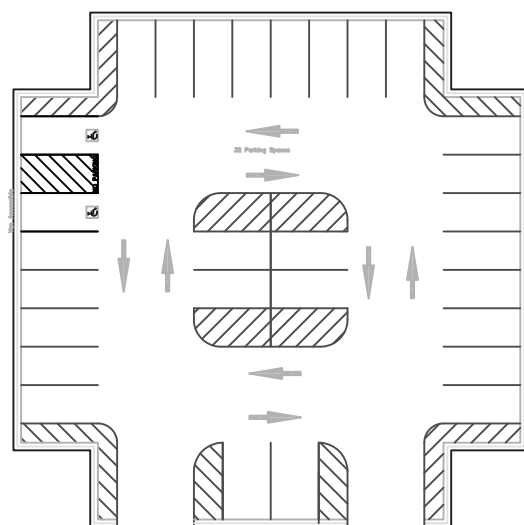
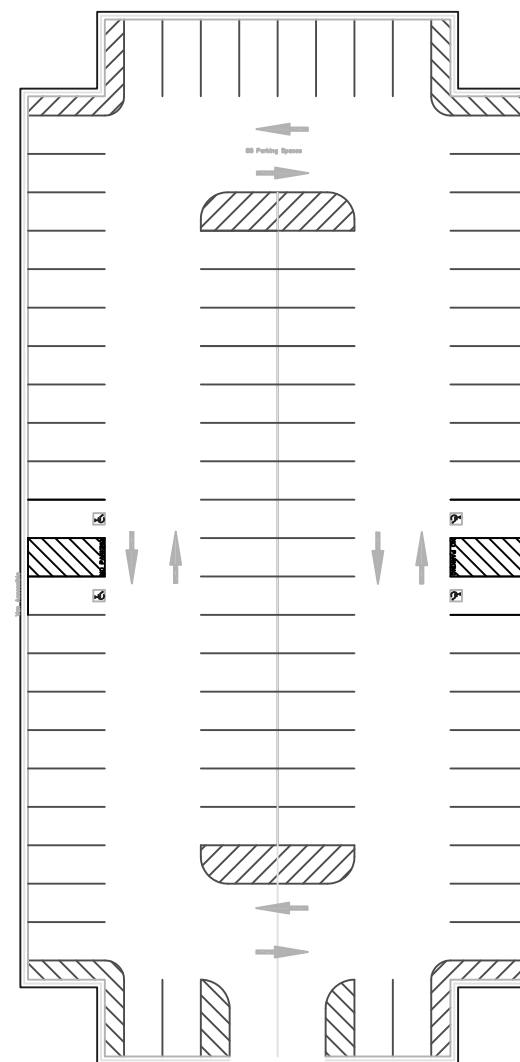
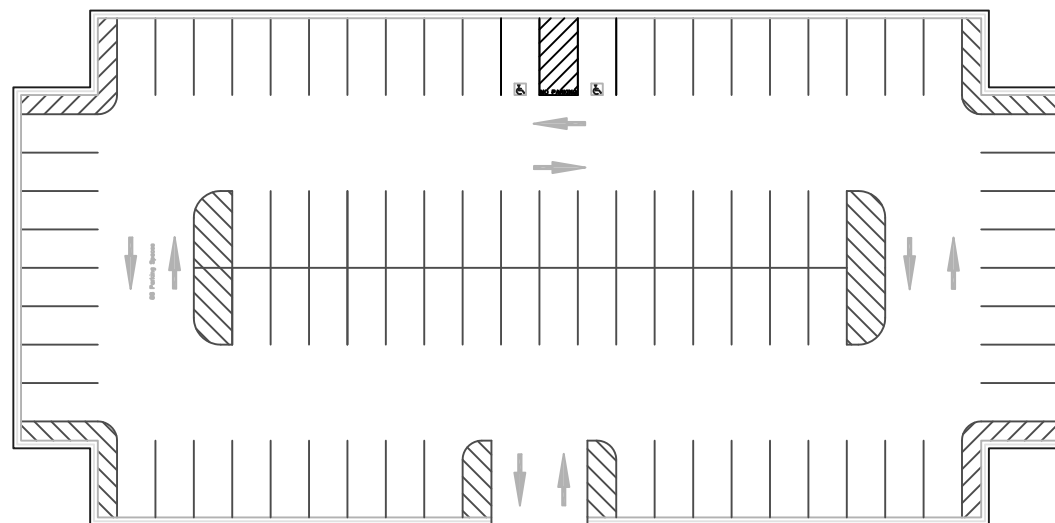
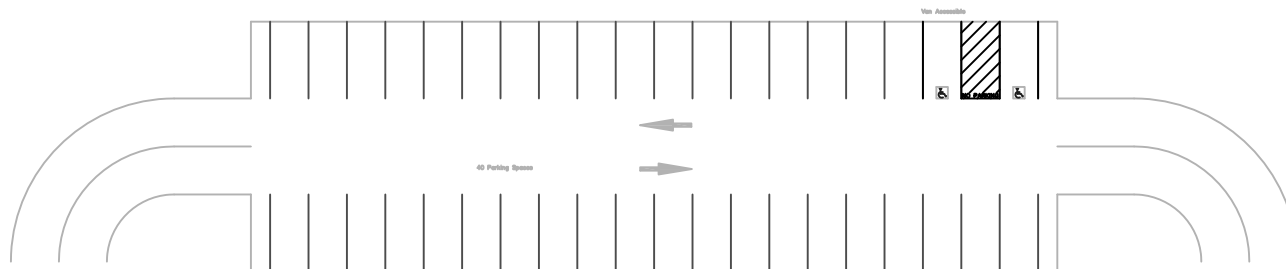
NO.	REVISIONS	DATE	NAME

HARRIS COUNTY  
PRECINCT THREE



PROJECT TITLE		JOB NO.
DESIGN BY:	EH	
DATE BY:	EH	
SCALE:	HOR: 1"=200'	
	VER: 1"=N/A	
DATE:	08/19/2024	
APPROVED BY:		
		1 / 1

Park Templates  
Potential Layout  
Draft Concept



# HARRIS COUNTY PRECINCT THREE

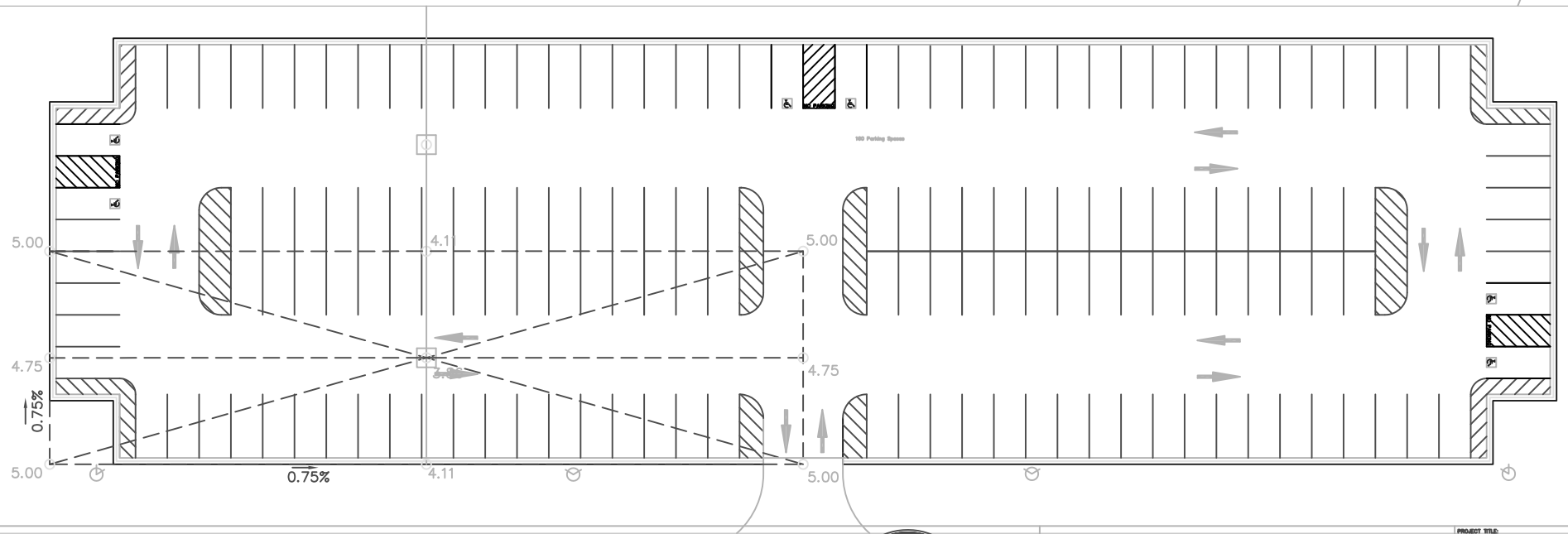
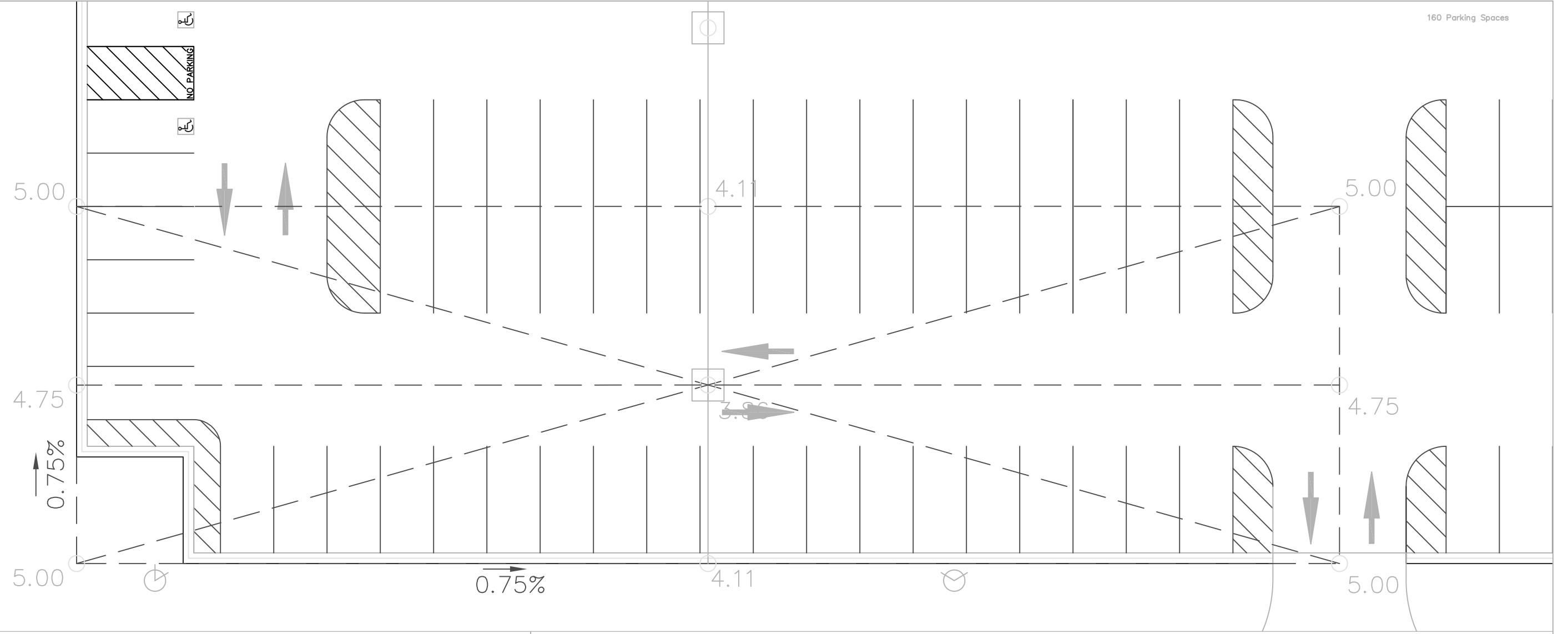


NO.	REVISIONS	DATE	NAME

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		SHEET NO.:
		1 / 1

Park Templates  
Potential Layout  
Draft Concept



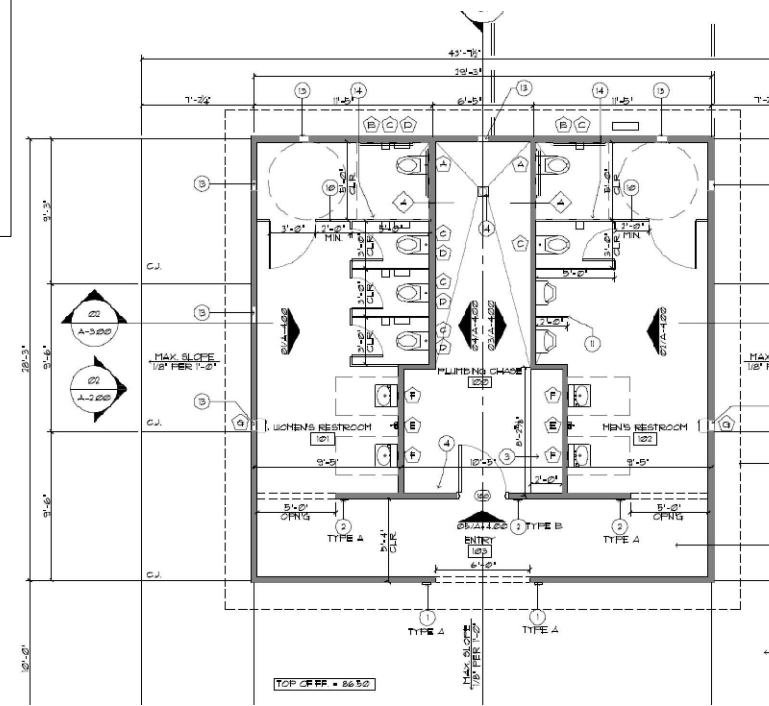
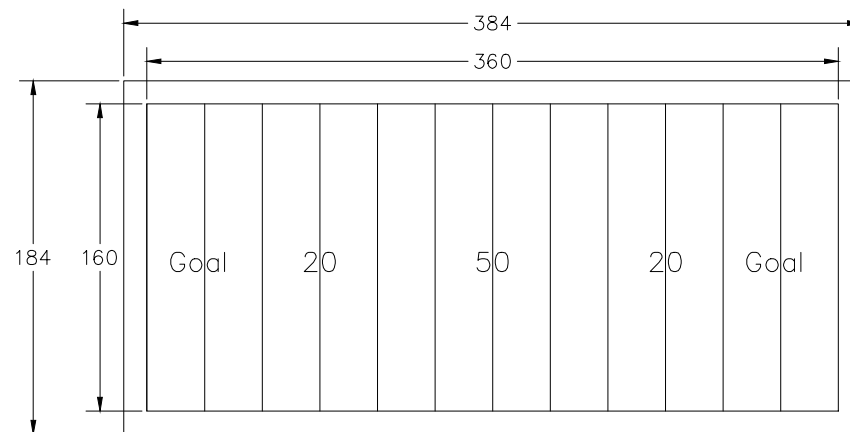
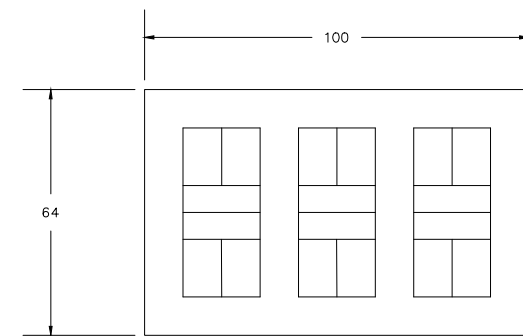
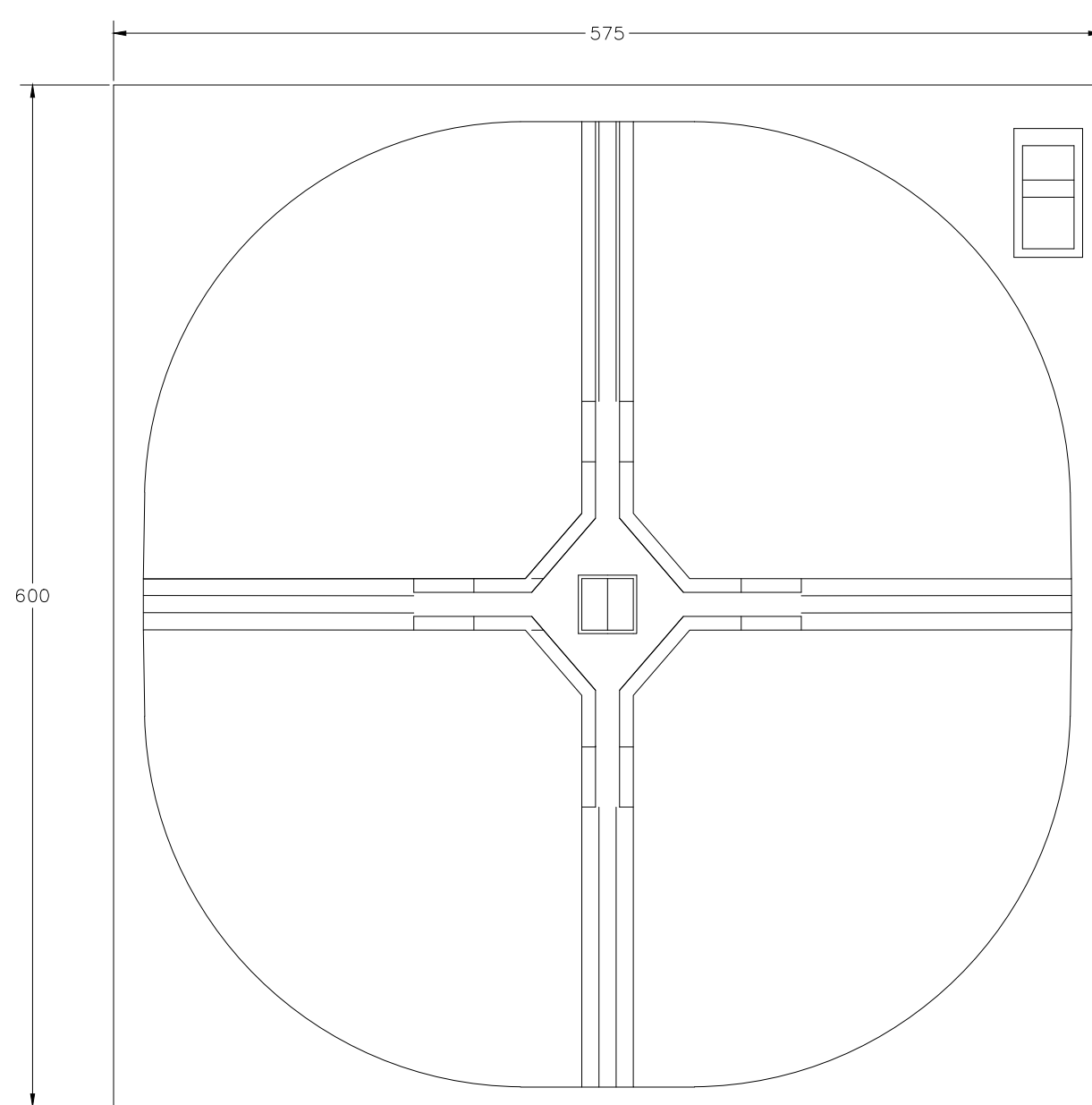
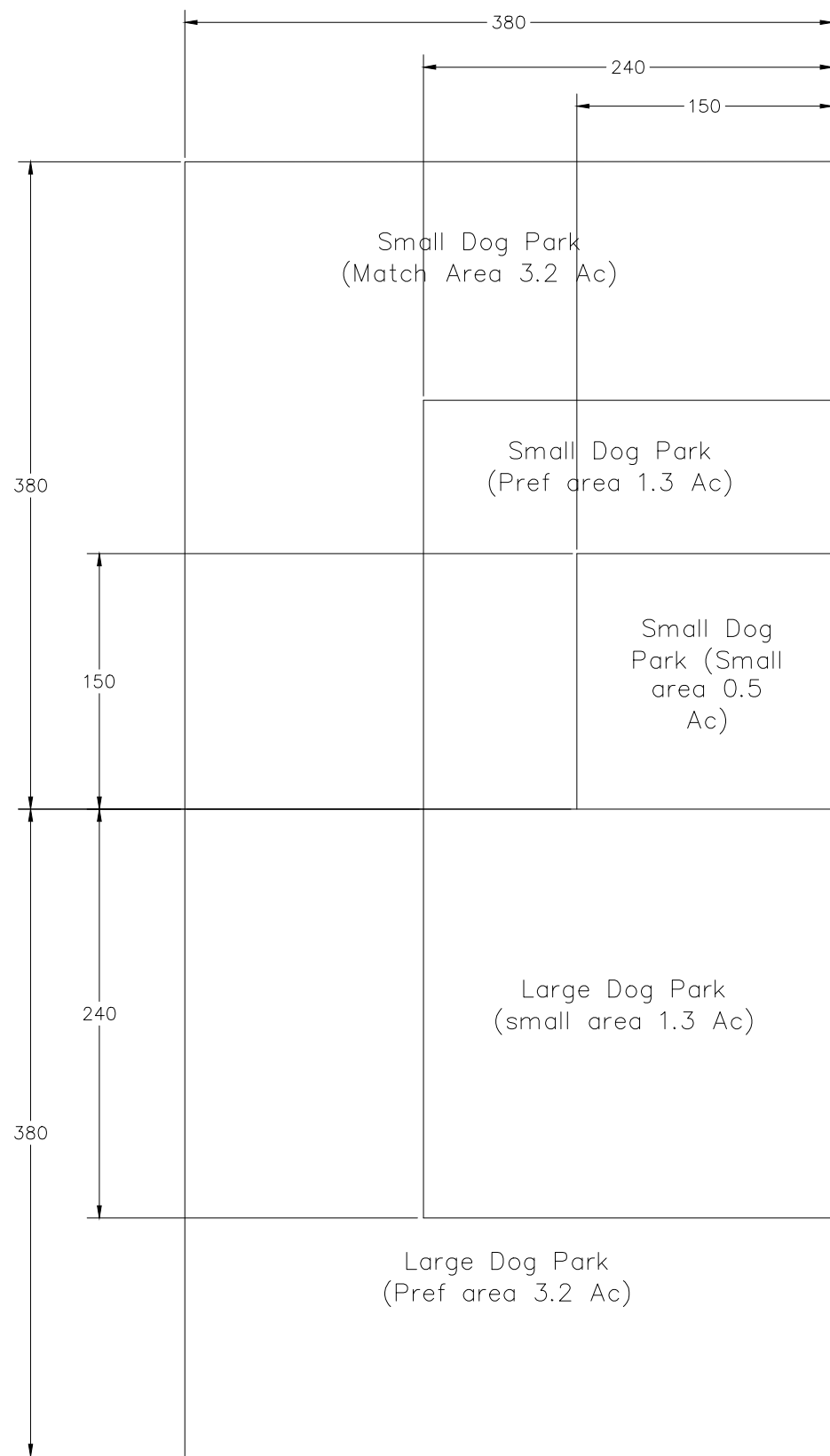


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# HARRIS COUNTY PRECINCT THREE



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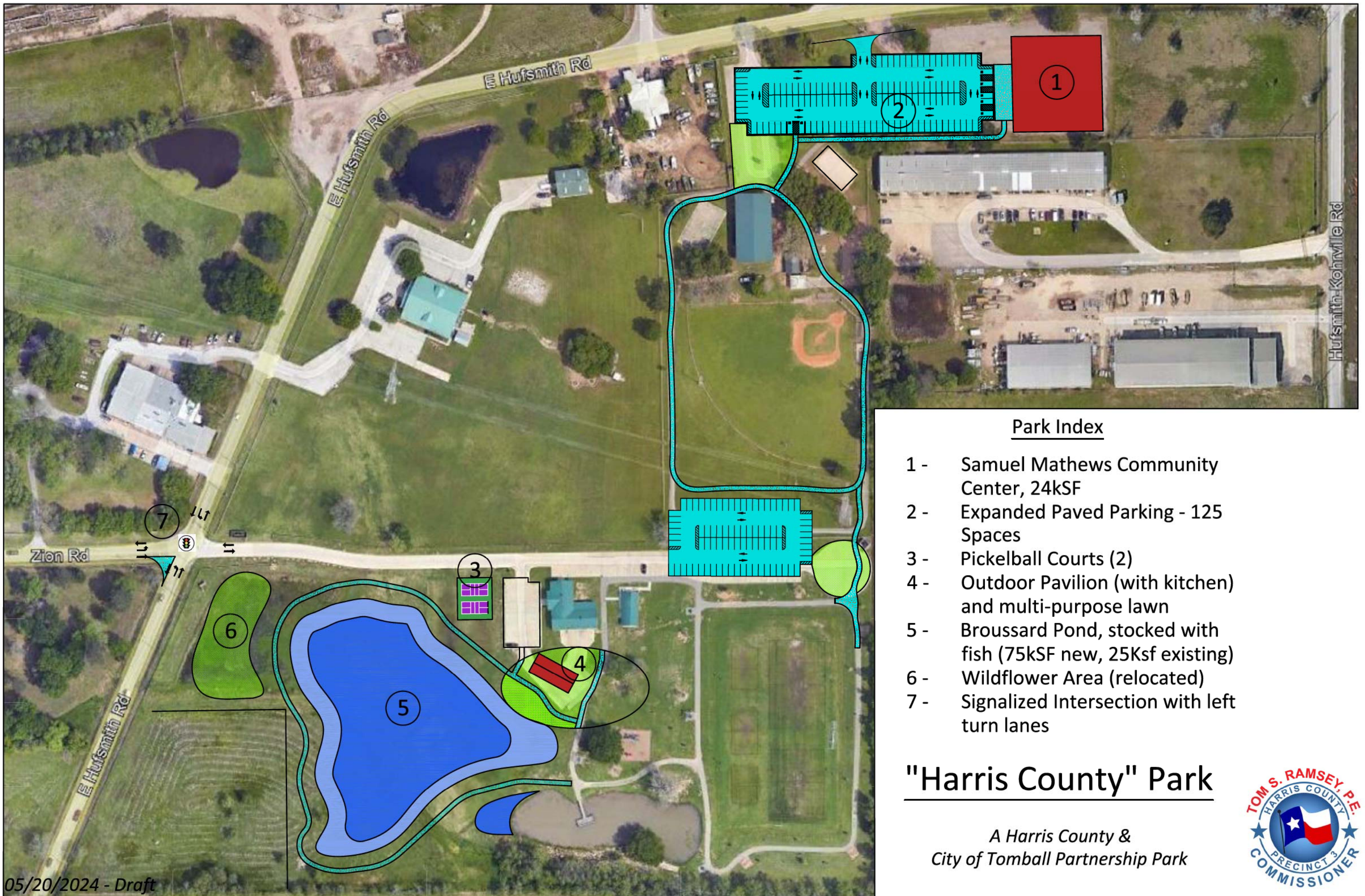


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# HARRIS COUNTY PRECINCT THREE



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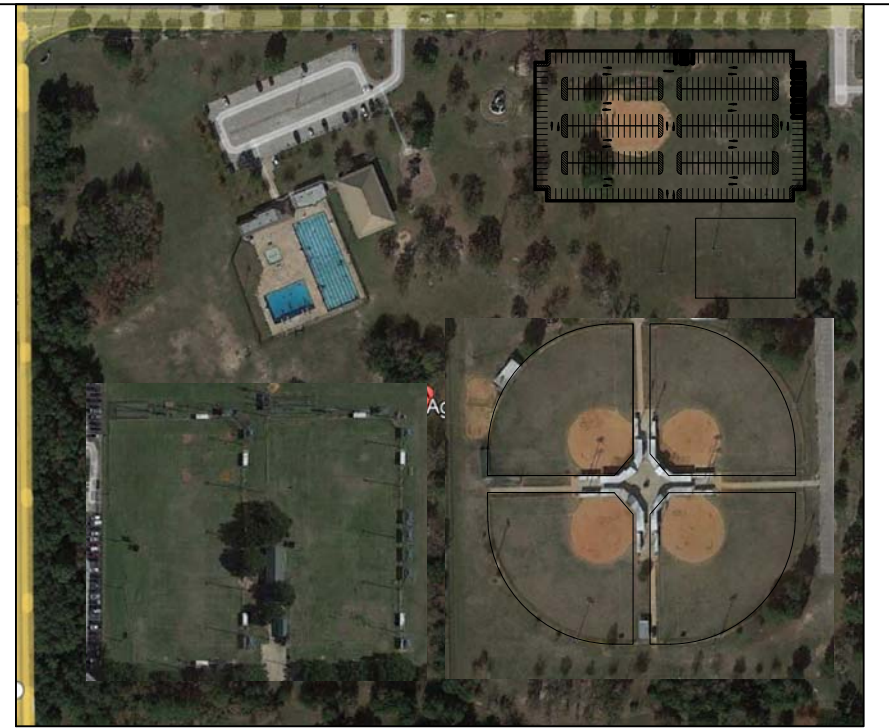
Park Index

- 1 - Samuel Mathews Community Center, 24kSF
- 2 - Expanded Paved Parking - 125 Spaces
- 3 - Pickelball Courts (2)
- 4 - Outdoor Pavilion (with kitchen) and multi-purpose lawn
- 5 - Broussard Pond, stocked with fish (75kSF new, 25Ksf existing)
- 6 - Wildflower Area (relocated)
- 7 - Signalized Intersection with left turn lanes

"Harris County" Park

A Harris County & City of Tomball Partnership Park





NO.	REVISIONS	DATE	NAME

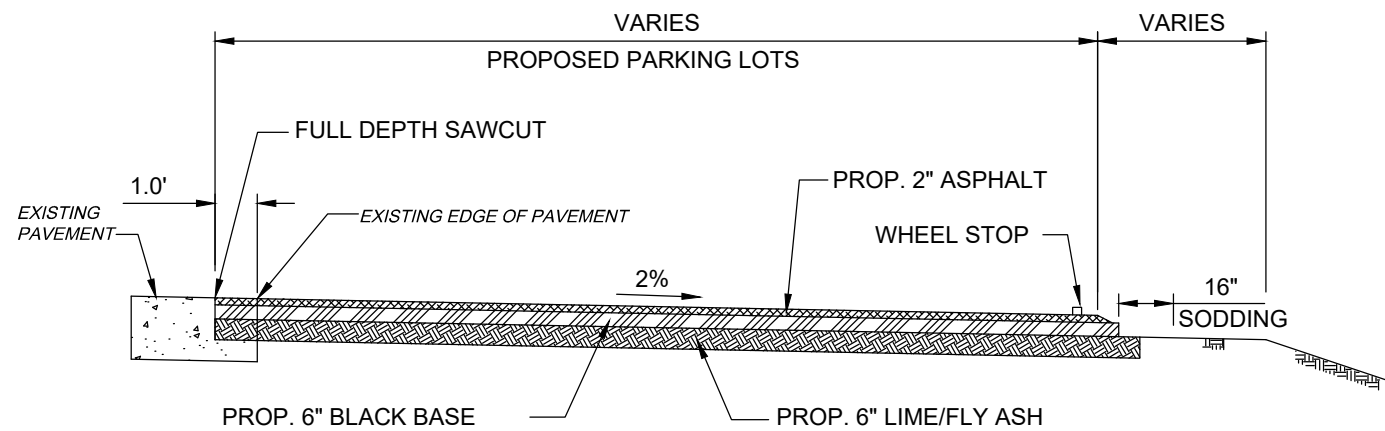
# HARRIS COUNTY PRECINCT THREE



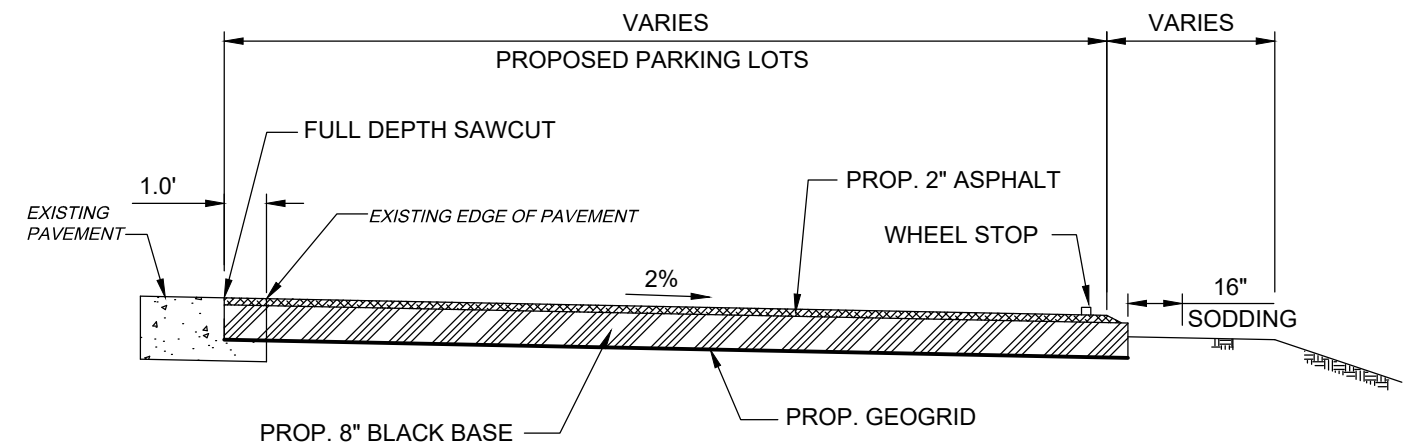
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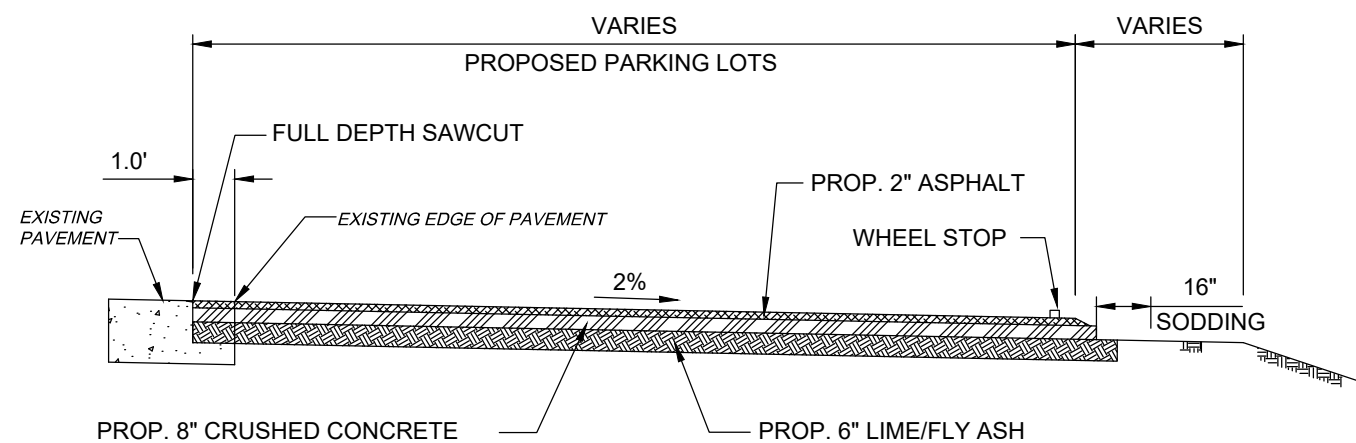
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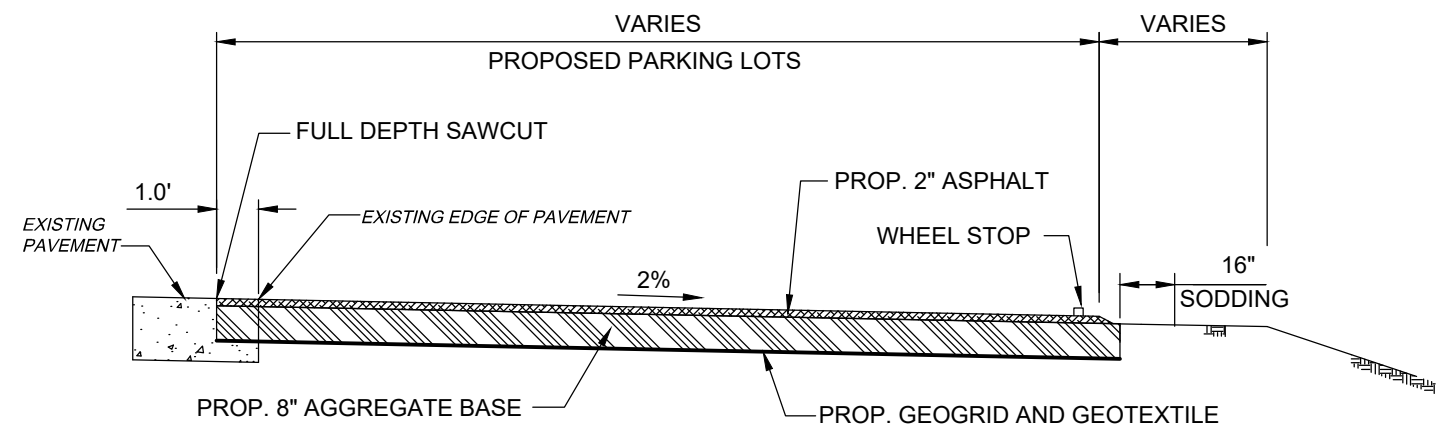
NEW PARKING LOT - TYPICAL PAVEMENT SECTION 1



NEW PARKING LOT - TYPICAL PAVEMENT SECTION 2



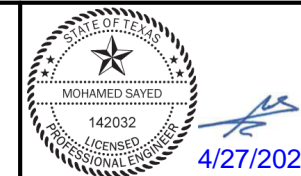
NEW PARKING LOT - TYPICAL PAVEMENT SECTION 3



NEW PARKING LOT - TYPICAL PAVEMENT SECTION 4

NO.	REVISIONS	DATE	NAME
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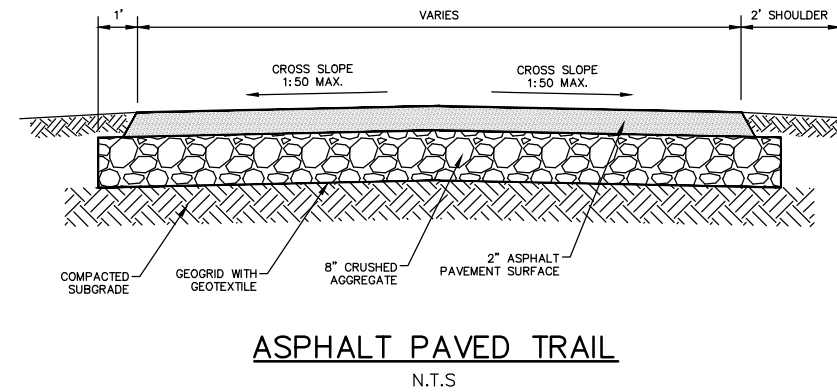
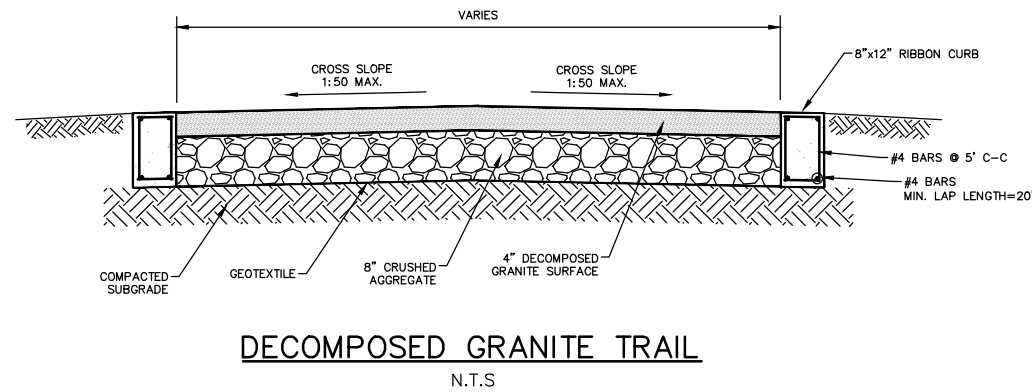
**HARRIS COUNTY  
ENGINEERING DEPARTMENT**



PROJECT TITLE:		MAINTENANCE CONTRACT - ASPHALT PAVING &	
		RELATED IMPROVEMENTS-PRECINCT 3-2023	
SHEET DESCRIPTION:		ASPHALT PAVEMENT DETAILS (2 OF 2)	
DRAWN BY:		DATE:	3/23/2023
DESIGN BY:	SCALE:	SHEET NO.:	05 / 48
	NOT TO SCALE		

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Multi-modal Trails - 12' - 14'  
Major Trails - 10'-12'  
Loop Trails - 8'



NO.	REVISIONS	DATE	NAME
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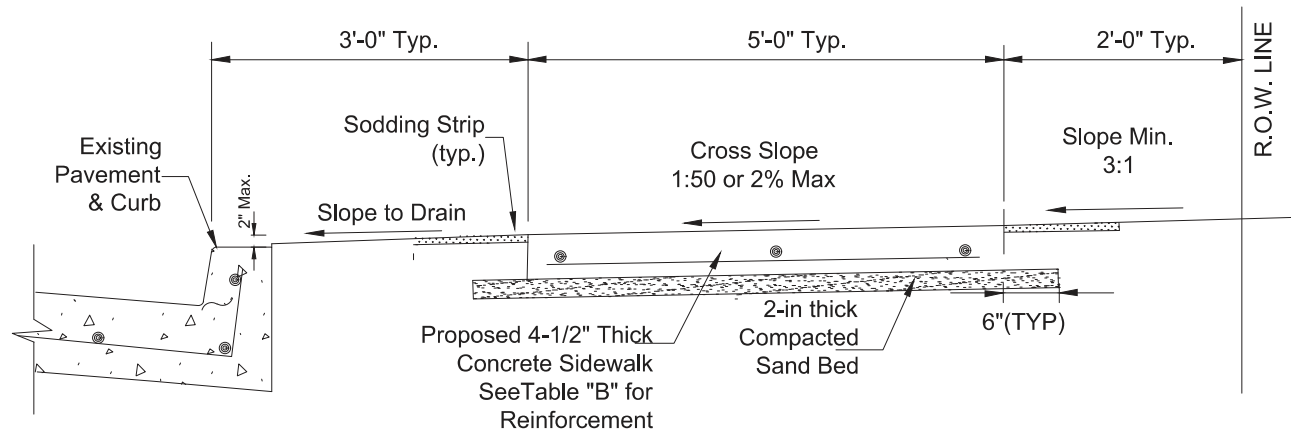
**HARRIS COUNTY  
ENGINEERING DEPARTMENT**



4/27/2023

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SHEET DESCRIPTION:		TRAIL TYPICAL SECTIONS	
DRAWN BY:		DATE:	3/23/2023
DESIGN BY:	SCALE:	SHEET NO.:	17 / 48
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**TYPICAL SIDEWALK SECTION**

N.T.S.

NOTE (FOR PRECINCT 3 ONLY):  
 - EXCAVATION FOR SIDEWALK IS INCIDENTAL.  
 - REFER TO SS5055 FOR MEASUREMENT OF EXCAVATION.

TABLE "B" (SIDEWALKS)

REINFORCEMENT SCHEDULE		
WIDTH	TRANSVERSE	LONGITUDINAL
4'	#3 @ 24" O.C.	#3 @ 14" MAX.
5'	#3 @ 24" O.C.	#3 @ 18" MAX.
6'	#3 @ 24" O.C.	#4 @ 22" MAX.
10'	#3 @ 24" O.C.	#4 @ 18" MAX.

REINFORCING STEEL NOTES:

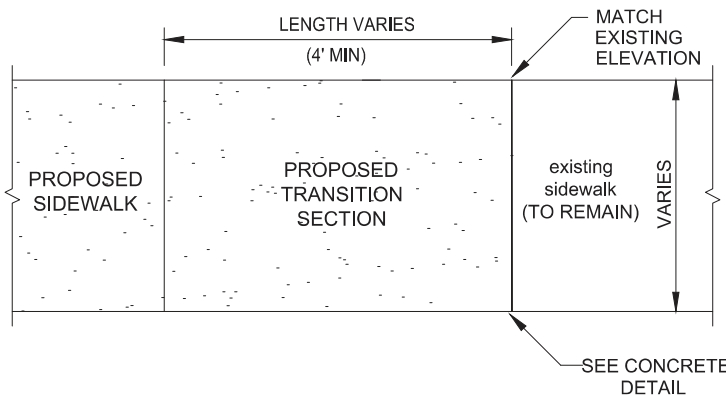
- ALL REINFORCING TO BE A MINIMUM  $f_y=40$  ksi.
- MINIMUM CLEARANCE AT EDGE TO BE 3".
- MINIMUM REBAR COVER 2-1/4" DEEP.
- REBAR LAPS SHALL COMPLY WITH HARRIS COUNTY SPECIAL SPECIFICATION ITEM 4050 REINFORCING CONCRETE.

GENERAL NOTES FOR SIDEWALKS:

- SIDEWALKS SHALL HAVE THE MAXIMUM RUNNING SLOPE NOT TO EXCEED 1:20 (OR 5%) AND THE MAXIMUM CROSS SLOPE NOT TO EXCEED 1:50 (OR 2%)
- FOR PROJECTS IN THE PUBLIC RIGHT-OF-WAY, WHERE THE ADJACENT ROADWAY HAS A RUNNING SLOPE OF 5% OR GREATER, THE PEDESTRIAN ROUTE SHALL NOT EXCEED THE GRADE ESTABLISHED FOR THE ADJACENT ROADWAY.
- GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES, INCLUDING RAMPS, SIDEWALKS AND CURB RAMPS SHALL BE STABLE, FIRM, AND SLIP-RESISTANT.
- IF GRATINGS ARE LOCATED IN WALKING SURFACES OR ALONG ACCESSIBLE ROUTES, THEN THEY SHALL HAVE SPACES NO GREATER THAN 1/2 IN. WIDE IN ONE DIRECTION. IF GRATINGS HAVE ELONGATED OPENINGS, THEN THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.
- 7' X 5' WHEELCHAIR PASSING SPACES MUST BE PLACED AT REASONABLE INTERVALS NOT TO EXCEED 200 FEET.
- ALL CONCRETE TO BE CLASS A MIN. 3000 PSI (fc).
- CONCRETE SHALL HAVE A LIGHT BROOM FINISH.
- CONTRACTOR SHALL CONSOLIDATE CONCRETE AT FORMS OR EXPANSION JOINTS USING A 1/4" EDGING TOOL.
- REFER TO TABLE "B" FOR MINIMUM REINFORCEMENT SPACING.
- TOOLED JOINT SHALL BE 1/4" x 1/4", @ 2 x SIDEWALK WIDTH, O.C.
- EXPANSION JOINTS SHALL BE PLACED AT INTERVALS OF 8 x SIDEWALK WIDTH, OR LESS IF REQUIRED FOR EVEN SPACING
- 1" THICK BOARD EXPANSION JOINTS OR 1/2" NON-EXTRUDING PREFORMED JOINTS SHALL BE USED BETWEEN SIDEWALK AND CURB, FIRE HYDRANTS, UTILITY POLES AND OTHER UTILITIES.
- ALL DISTURBED AREAS ARE TO BE FINE GRADED AND SODDED. TOP SOIL INCLUDED IN ITEM FOR BLOCK SODDING FOR LEVELING PURPOSES CONTRACTOR SHALL TRIM TREES AS NECESSARY.
- WHEN IT IS NECESSARY TO DOWEL PROPOSED SIDEWALK AND DRIVEWAY PAVING INTO EXISTING/ADJOINING PAVEMENT, USE DOWELS SET IN EPOXY. USE A MINIMUM OF 3 EACH #3 BY 1'-6" LONG DOWELS AT 12" ON CENTER (9" MINIMUM EMBEDMENT).
- WHERE ADJACENT PAVEMENT DOES NOT HAVE REINFORCEMENT, PROVIDE A FULL DEPTH SAW CUT AND DOWEL INTO EXISTING CONCRETE.
- NO JOINT SEALANT IS REQUIRED FOR SIDEWALK OR DRIVEWAY PAVING.

TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR)

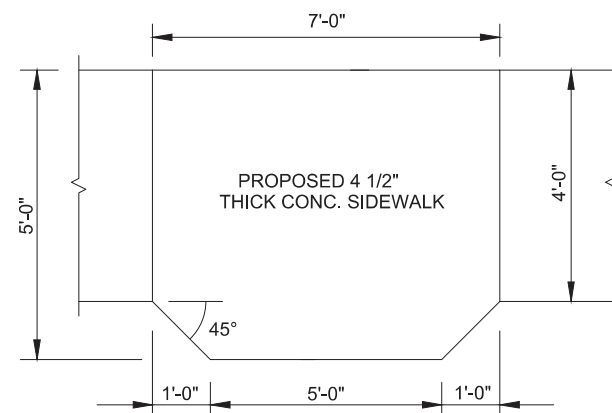
- THIS PROJECT REQUIRES THAT THE SIDEWALKS, CROSSWALKS, AND RAMPS BE IN CONFORMANCE WITH THE CURRENT ADA REQUIREMENTS THE CONTRACTOR IS REQUIRED TO MAKE THEMSELVES FAMILIAR WITH THE CURRENT TEXAS ACCESSIBILITY STANDARDS (TAS), AS OUTLINED BY THE TDLR. THE CURRENT STANDARDS ARE AVAILABLE AT [HTTP://WWW.LICENSE.STATE.TX.US/AB/ABTAS.HTM](http://www.license.state.tx.us/ab/abtas.htm).
- THESE DRAWINGS SHOW TYPICAL INSTALLATIONS AND GUIDELINES FOR CONSTRUCTION OF PEDESTRIAN FACILITIES AND HAVE BEEN SUBMITTED TO THE REGISTERED ACCESSIBILITY SPECIALIST FOR REVIEW OF COMPLIANCE WITH TAS. AT THE JOB LOCATION WHERE THE TOTAL CONSTRUCTION COST IS EQUAL OR EXCEEDS \$50,000.00, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REGISTERING AND SUBMITTING THE DRAWINGS TO TDLR FOR REVIEW PRIOR TO THE CONSTRUCTION AND INSPECTION AFTER THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL REWORK OR MODIFICATION TO COMPLY WITH TDLR REQUIREMENTS, AT NO COST TO HARRIS COUNTY.
- CERTAIN LOCATIONS MAY REQUIRE MODIFICATIONS AND DRAWINGS TO ACCOMMODATE SITE SPECIFIC CONDITIONS. DRAWINGS WILL BE PREPARED BY THE ENGINEER ON AN "AS-NEEDED" BASIS.



**PLAN - TRANSITION SECTION**

N.T.S.

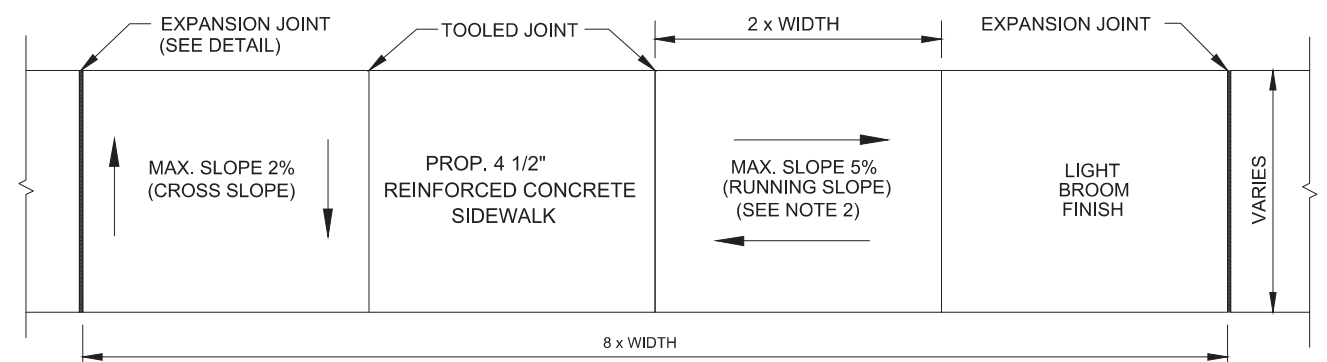
NOTE:  
 WHERE EXISTING SIDEWALK CROSS SLOPE EXCEEDS 1:50 (2%) USE TRANSITION SECTION TO MATCH EXISTING ELEVATION. RUNNING SLOPE NOT TO EXCEED 1:20 (5%)



**PLAN - TYPICAL WHEELCHAIR PASSING SPACE**

N.T.S.

NOTE:  
 - PROVIDE PASSING SPACE AT EVERY 200-FT MAX.  
 - NOT REQUIRED FOR SIDEWALK WITH >5-FT WIDE.



**PLAN - TYPICAL REINFORCED CONCRETE SIDEWALK & JOINT LAYOUT**

N.T.S.

NO.	REVISIONS	DATE	NAME

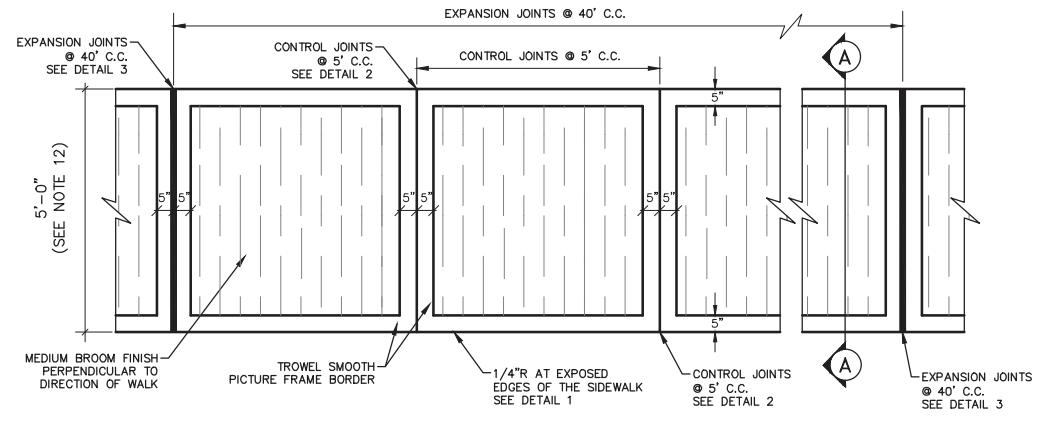
HARRIS COUNTY  
 ENGINEERING DEPARTMENT



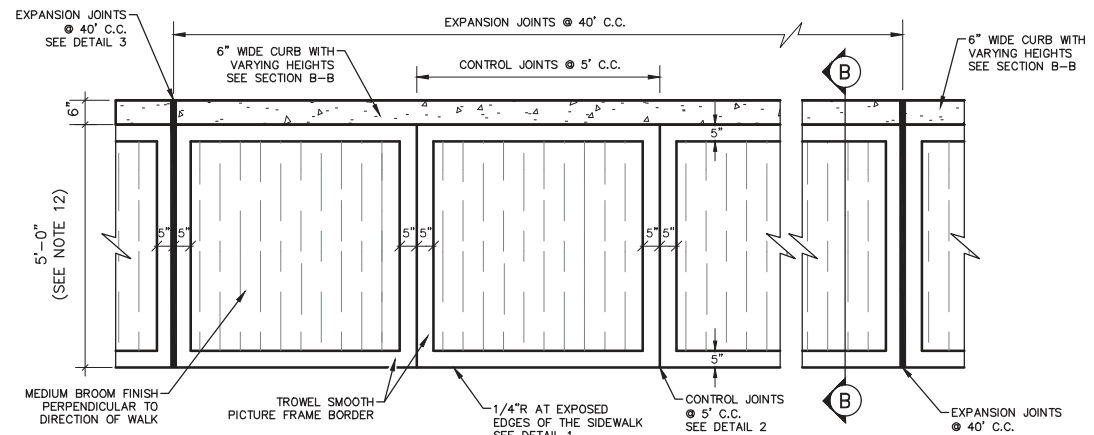
3/23/2023

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DESIGNED BY: HCED	SHEET DESCRIPTION: SIDEWALK DETAILS
DRAWN BY: JDZ	DATE: JUNE 2020
CK'D BY: PDG	SHT NO: 17 / 34
SCALE: NONE	JOB NO: UPIN 23103MF2YA01

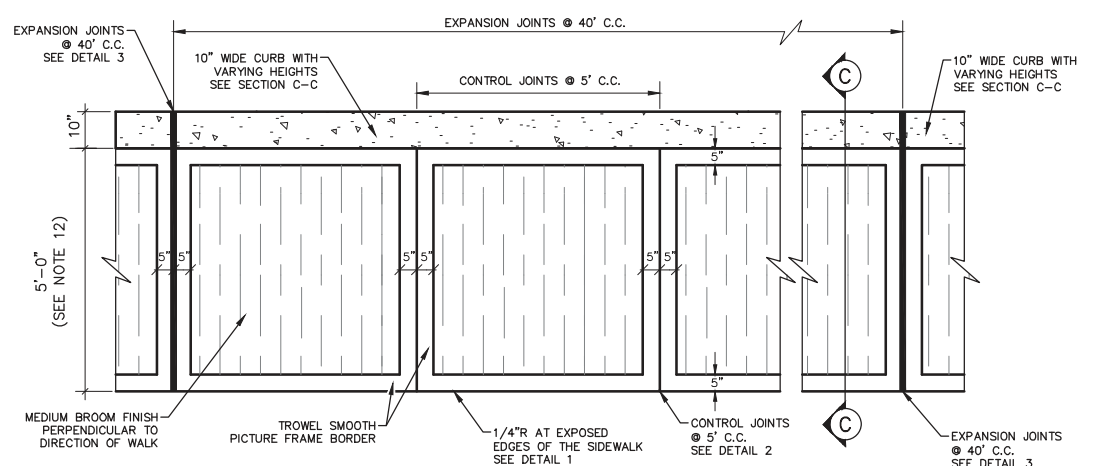
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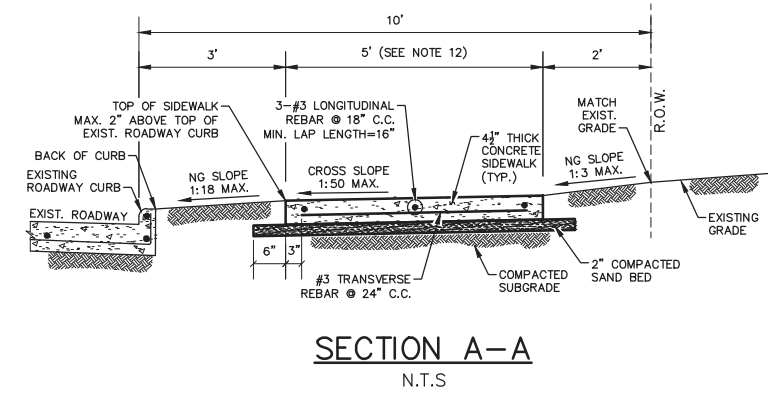
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PLAN VIEW (A-A)**  
N.T.S.



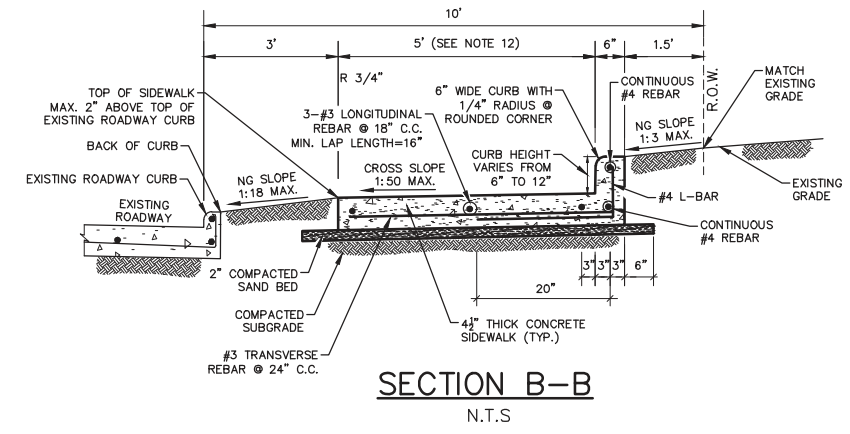
**PROPOSED CONC. SIDEWALK  
PLAN VIEW (B-B)**  
N.T.S.



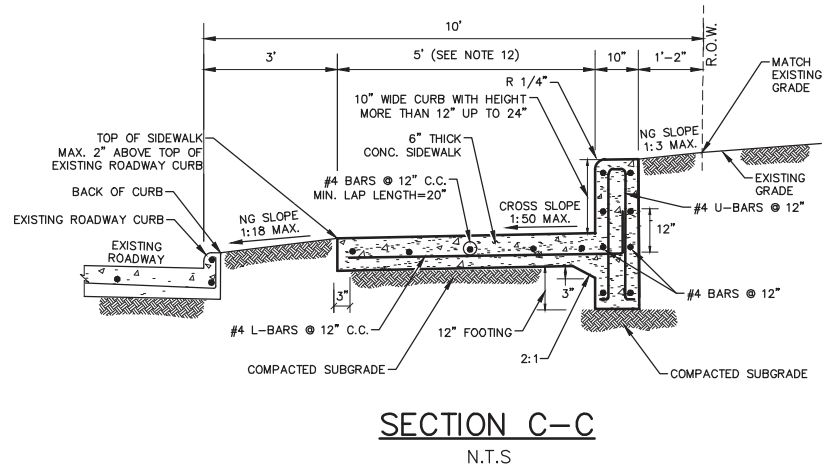
**PROPOSED CONC. SIDEWALK  
PLAN VIEW (C-C)**  
N.T.S.



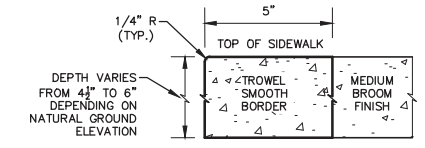
**SECTION A-A**  
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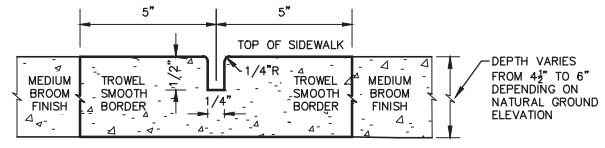
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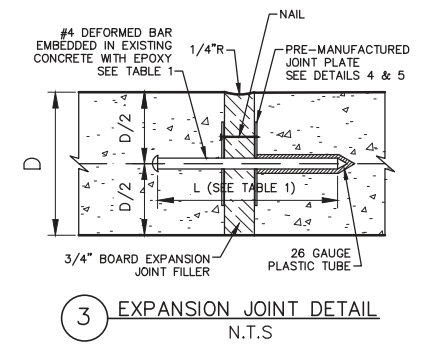
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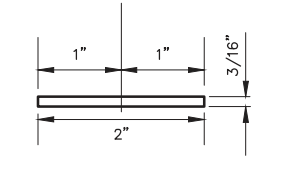
**1 SIDEWALK EDGE DETAIL**  
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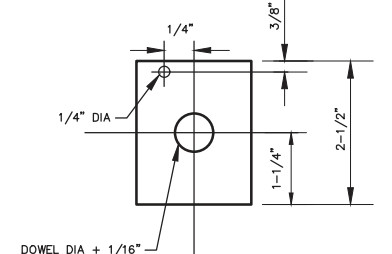
**2 TOOLED CONTROL JOINT DETAIL**  
N.T.S.



**3 EXPANSION JOINT DETAIL**  
N.T.S.



**4 PLAN - JOINT PLATE**  
N.T.S.



**5 ELEVATION - JOINT PLATE**  
N.T.S.

**TABLE 1**

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS		
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
4 1/2	1/2	18	12
5	1/2	18	12
6	3/4	18	12
7	1	18	12

**TABLE "2" (SIDEWALKS)**

REINFORCEMENT SCHEDULE		
WIDTH	TRANSVERSE	LONGITUDINAL
4'	#3 @ 24" O.C.	#3 @ 14" MAX.
5'	#3 @ 24" O.C.	#3 @ 18" MAX.
6'	#3 @ 24" O.C.	#4 @ 22" MAX.
8'-10'	#3 @ 24" O.C.	#4 @ 18" MAX.

- GENERAL NOTES:**
- STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS.
  - 6X6 - W2.9XW2.9 WELDED WIRE FABRIC MAY BE USED IN LIEU OF THE LONGITUDINAL & TRANSVERSE REINFORCING STEEL SHOWN IN SECTIONS A-A AND B-B.
  - SIDEWALKS & DRIVEWAYS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE AND INCLUDE 5-1/2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
  - REINFORCED CONCRETE SIDEWALKS THROUGH DRIVEWAYS OPENINGS SHALL BE PER THE PRECINCT 3 DRIVEWAY DETAILS.
  - COMPACTION OF SUBGRADE TO 95% OF STANDARD PROCTOR DENSITY (ASTM D698) (± 2% OPTIMUM MOISTURE) FOR PROPOSED DRIVEWAY CONNECTION. THE COUNTY ENGINEER RESERVES THE RIGHT TO INSPECT AND REQUIRE LABORATORY TEST TO BE CONDUCTED.
  - EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED AT A MAXIMUM DISTANCE OF 40'. MAXIMUM SPACING FOR CONTROL JOINTS SHALL BE 5'.
  - EXPANSION JOINT DOWEL/WIRE MESH OVERLAY WILL BE CENTERED HORIZONTALLY ON JOINT.
  - EXPANSION JOINT BARS WILL BE CENTERED VERTICALLY IN CONCRETE AS NEEDED TO MAINTAIN 2" MINIMUM COVER.
  - FOR RESIDENTIAL DRIVEWAY, SIDEWALK CONCRETE SHALL BE 6" REINFORCED CONCRETE.
  - SIDEWALK SLOPES SHALL COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS 403.3 "SLOPE".
  - CONTRACTOR SHALL CONSTRUCT SIDEWALK IN A MANNER NOT TO BLOCK THE NATURAL DRAINAGE FROM ADJACENT PROPERTY.
  - SIDEWALK WIDTHS MAY VARY. INSTALL REINFORCING STEEL IN ACCORDANCE WITH TABLE 2.
  - SIDEWALK TYPICAL SECTIONS CAN BE COMBINED TO ACCOMMODATE SITE CONDITIONS AND AS DIRECTED BY THE ENGINEER.

NO.	REVISIONS	DATE	NAME

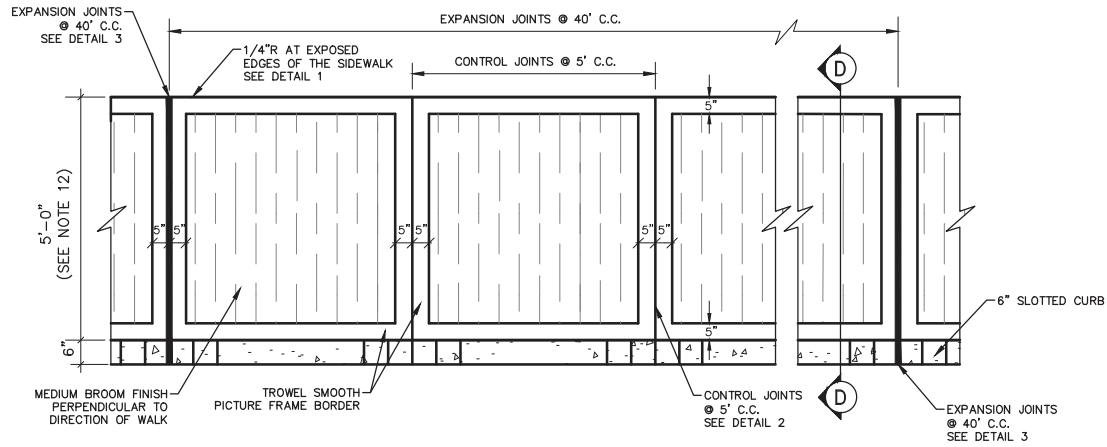
# HARRIS COUNTY ENGINEERING DEPARTMENT



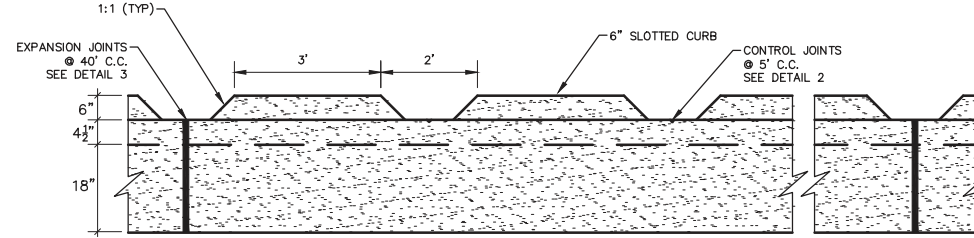
3/23/2023

PROJECT TITLE: CONSTRUCTION OF SIDEWALKS AND RELATED ITEMS - PRECINCT 3			
DESIGNED BY: HCED	SHEET DESCRIPTION: SIDEWALK TYPICAL SECTIONS & DETAILS		
DRAWN BY: HCED	(SHEET 1 OF 2)		DATE: 01/26/2022
CK'D BY: DDD	SCALE: NONE	JOB NO: UPIN 23103MF2YA01	SHT NO: 18 / 34

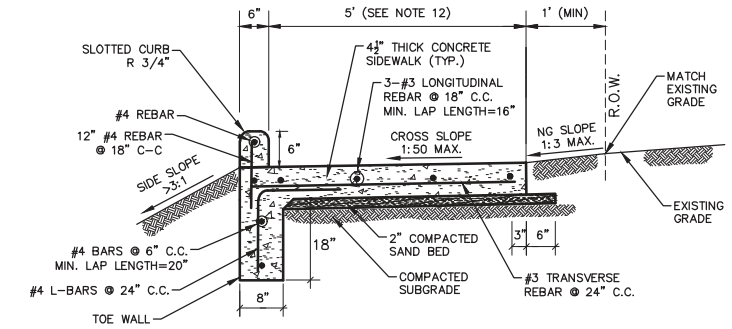
PLOT DATE: 2/16/2023 12:39 PM PLOT BY: SULEIMAN, KHALED (ENGINEERING) FILE NAME: O:\\_Pct4\MAINTENANCE CONTRACT - SIDEWALK CONSTRUCTION-2021\3\CIVIL\PIA-DT-TYP SECTIONS SDWK.dwg



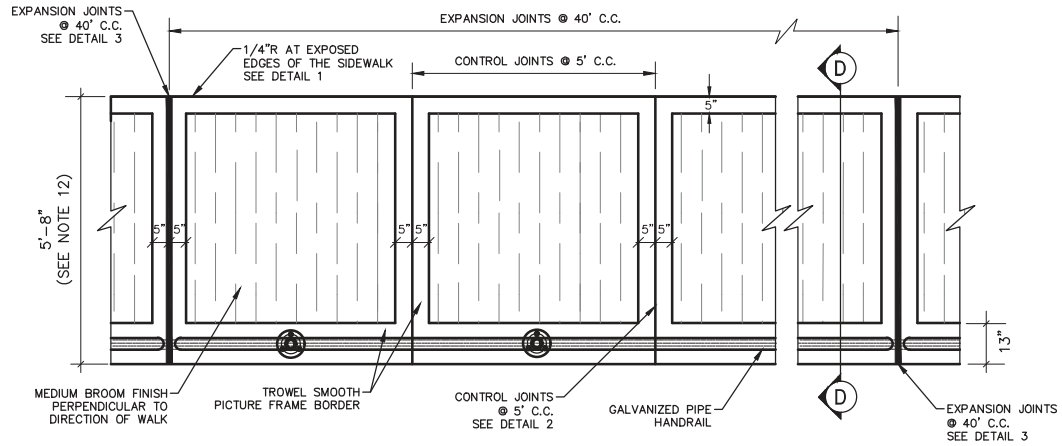
**PROPOSED CONC. SIDEWALK  
PLAN VIEW (D-D)**  
N.T.S.



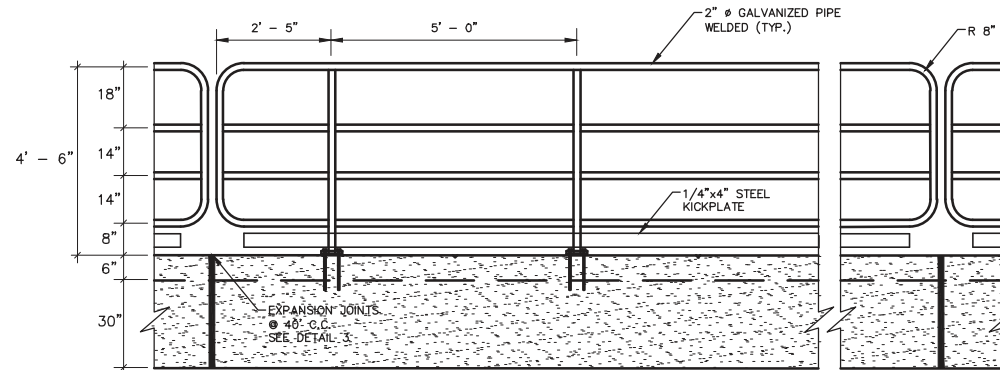
**PROPOSED CONC. SIDEWALK  
ELEVATION VIEW (D-D)**  
N.T.S.



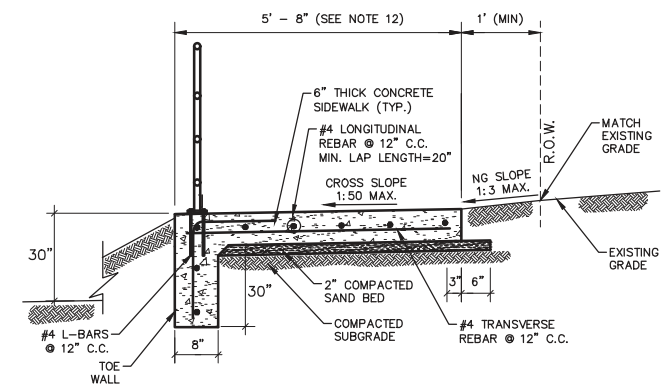
**SECTION D-D**  
N.T.S.



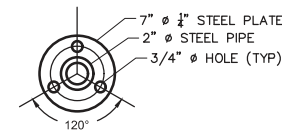
**PROPOSED CONC. SIDEWALK  
PLAN VIEW (E-E)**  
N.T.S.



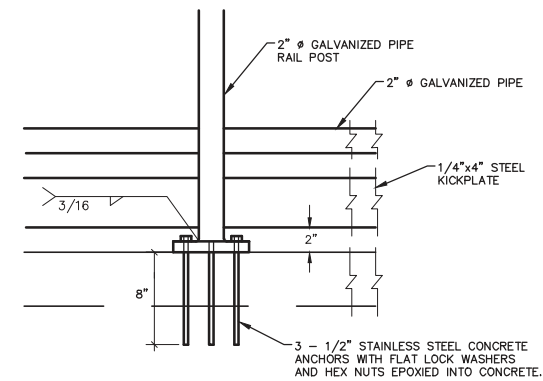
**PROPOSED CONC. SIDEWALK  
ELEVATION VIEW (E-E)**  
N.T.S.



**SECTION E-E**  
N.T.S.



**BASE PLATE PLAN VIEW**  
N.T.S.



**BASE PLATE ANCHOR DETAIL**  
N.T.S.

NO.	REVISIONS	DATE	NAME

**HARRIS COUNTY  
ENGINEERING DEPARTMENT**



3/23/2023

PROJECT TITLE: CONSTRUCTION OF SIDEWALKS AND RELATED ITEMS - PRECINCT 3	
DESIGNED BY: HCED	SHEET DESCRIPTION: SIDEWALK TYPICAL SECTIONS & DETAILS (SHEET 2 OF 2)
DRAWN BY: HCED	DATE: 01/26/2022
CK'D BY: DDD	SCALE: NONE
JOB NO: UPIN 23103MF2YA01	SHT NO: 19 / 34

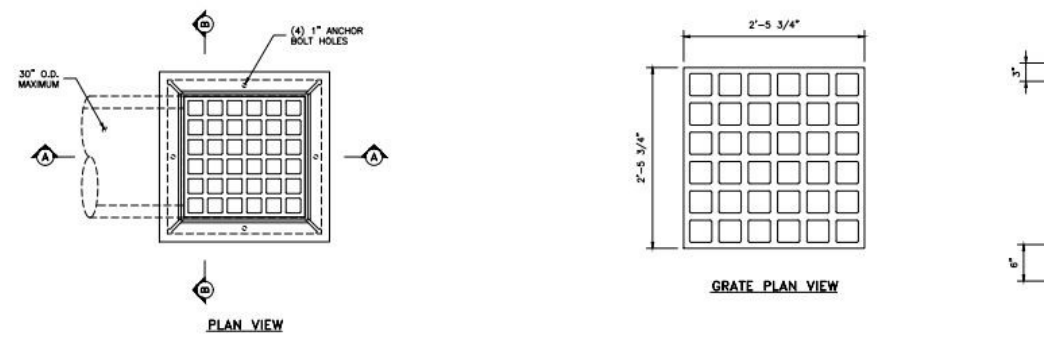
- d. Use only City of Houston standard inlets (See Table 9.3).

Table 9.3\*  
**STANDARD STORM SEWER INLETS**

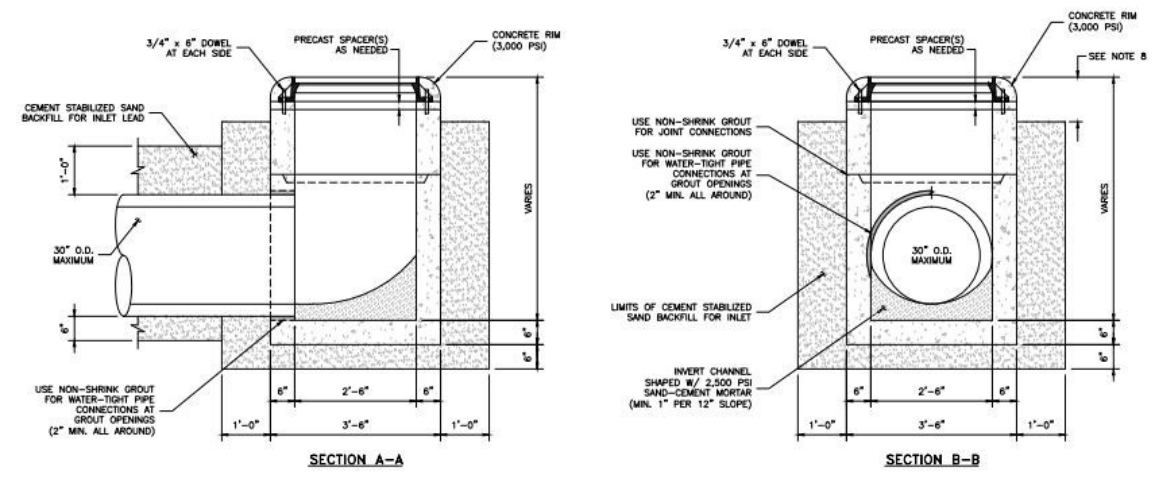
INLET	APPLICATION	NOMINAL CAPACITY	DWG. NOS.
Type A	Parking Lots/Small Areas	5.00 cfs	02632-01
Type B-B	Residential/Commercial	5.00 cfs	02632-04
Type C	Residential/Commercial	2.50 cfs	02632-06
Type C-1	Commercial	5.00 cfs	02632-06
Type C-2	Commercial	10.00 cfs	02632-06
Type C-2A	Commercial	10.00 cfs	02632-06
Type D	Parking Lots	4.00 cfs	02632-07
Type D-1	Small Areas	3.00 cfs	02632.08
Type E	Roadside ditches	10.00 cfs	02632-09,-10
Type H-2	Residential Commercial	4.00 cfs / 8.00 cfs (one / two sides)	02633-01,-02

\* The nominal capacity values provided in Table 9.3 are to be used for initial sizing only. The actual Inlet size all shall be based on hydraulic analysis of the required inlet capacity. Inlet capacities are calculated using either orifice and or weir equations depending upon their location and a type of inlet openings with or without plates.

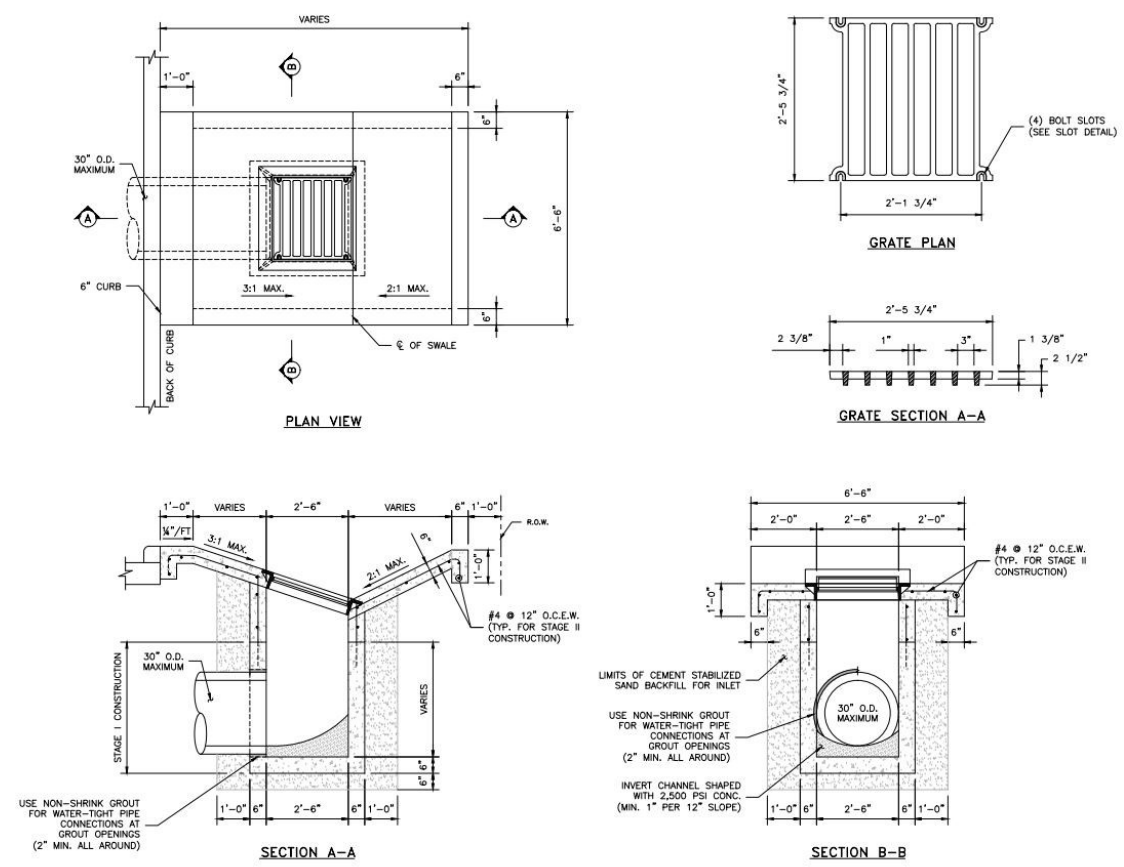
- e. Do not use beehive grate inlets or other specialty inlets.
- f. Do not use grate top inlets in unlined roadside ditch.
- g. Do not place inlets in the circular portion of cul-de-sac streets unless justification based on special conditions can be provided.
- h. Place inlets at the end of proposed pavement, if drainage will enter or leave pavement.
- i. Do not locate inlets adjacent to esplanade openings.
- j. For new residential development, locate inlets at the center of lots and drainage system with lot site layout such that inlets are not located within the driveway between the radius end points as defined by the driveway radius intersection with the curb or edge of pavement.
- k. Place inlets on side streets intersecting major streets, unless justification based on special conditions can be provided.
- l. For private development with internal site drainage, only one connection is permitted to any one inlet, and that connection (lead) shall be made to the



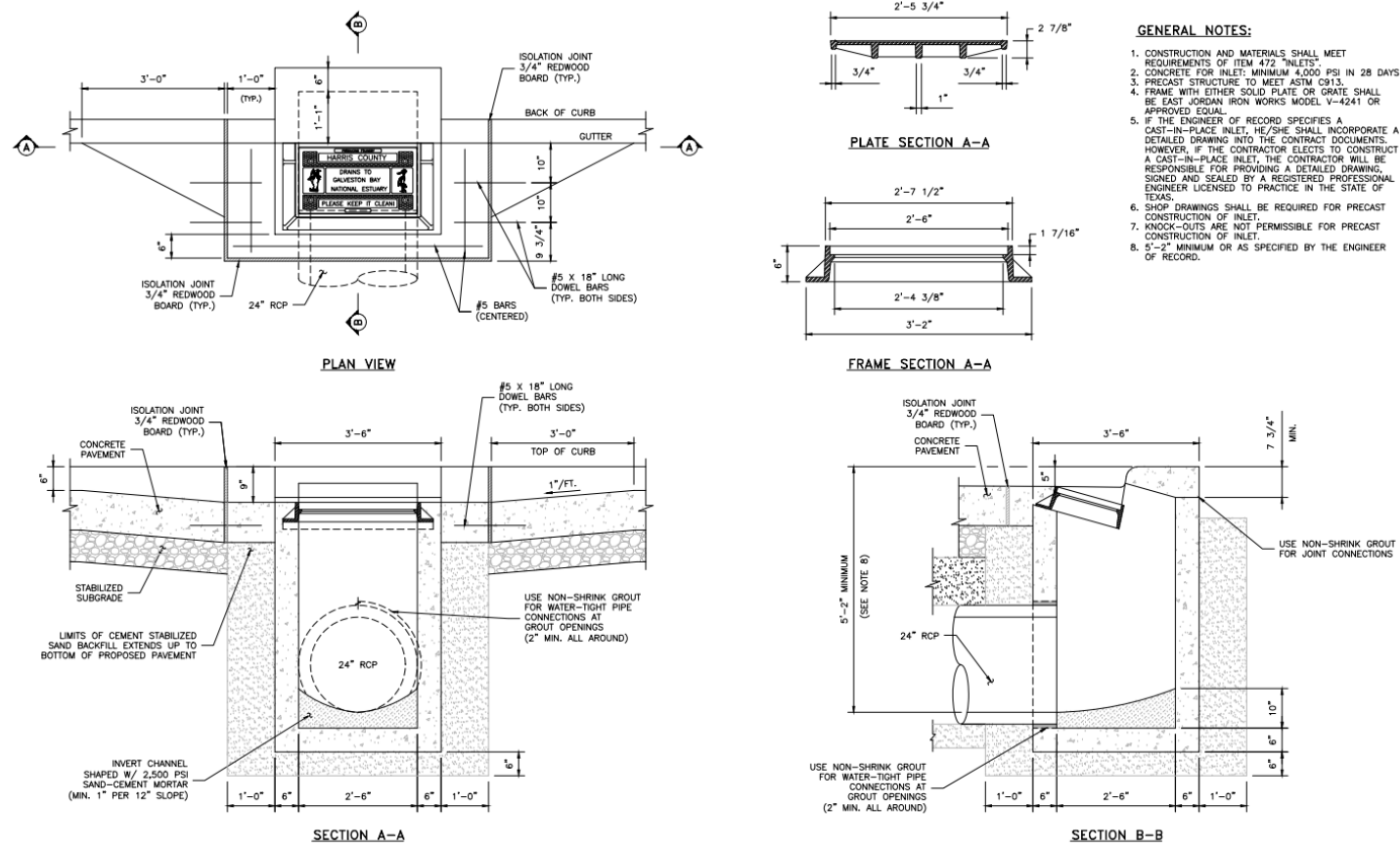
Type A Inlet



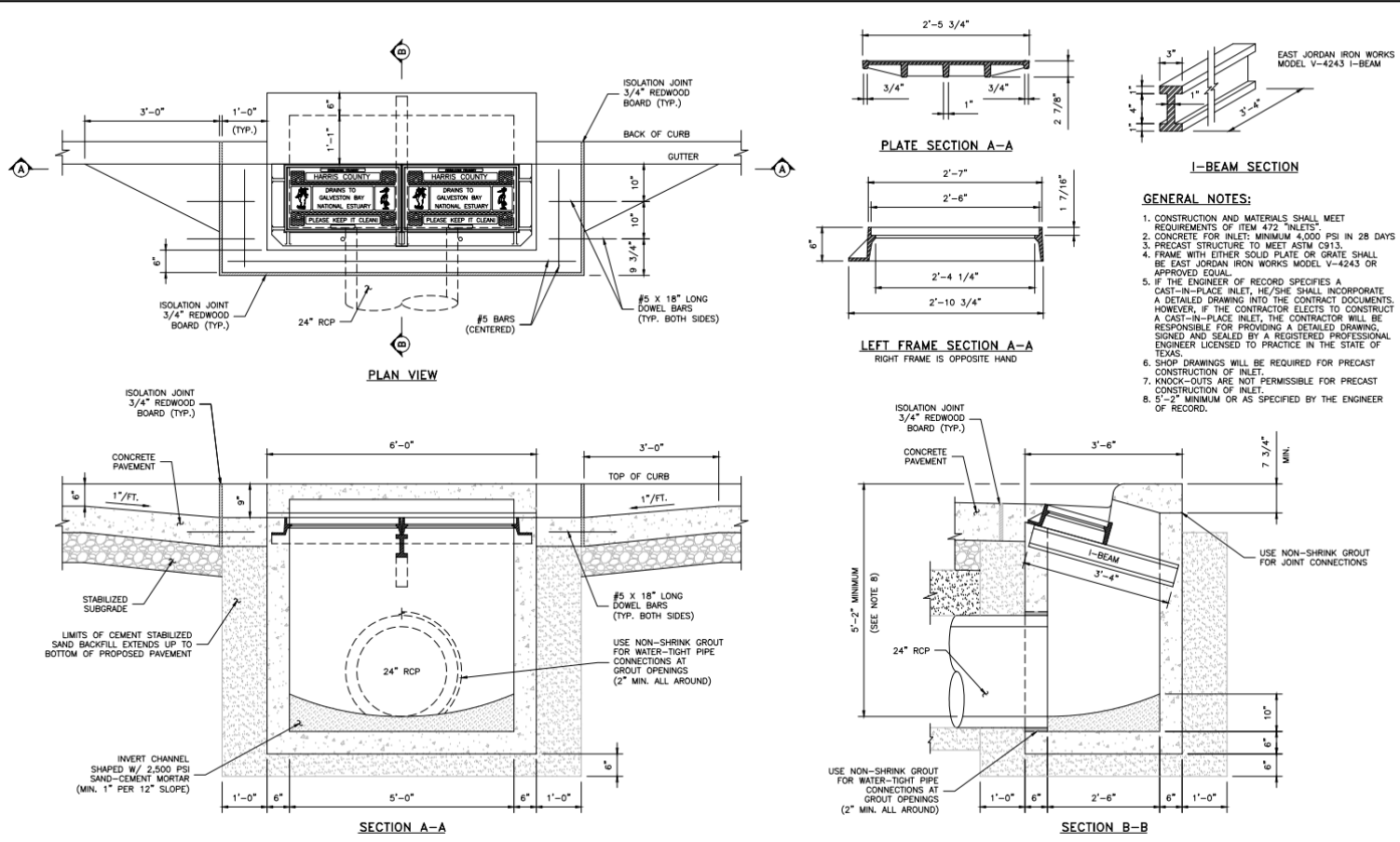
Type A Mod Inlet



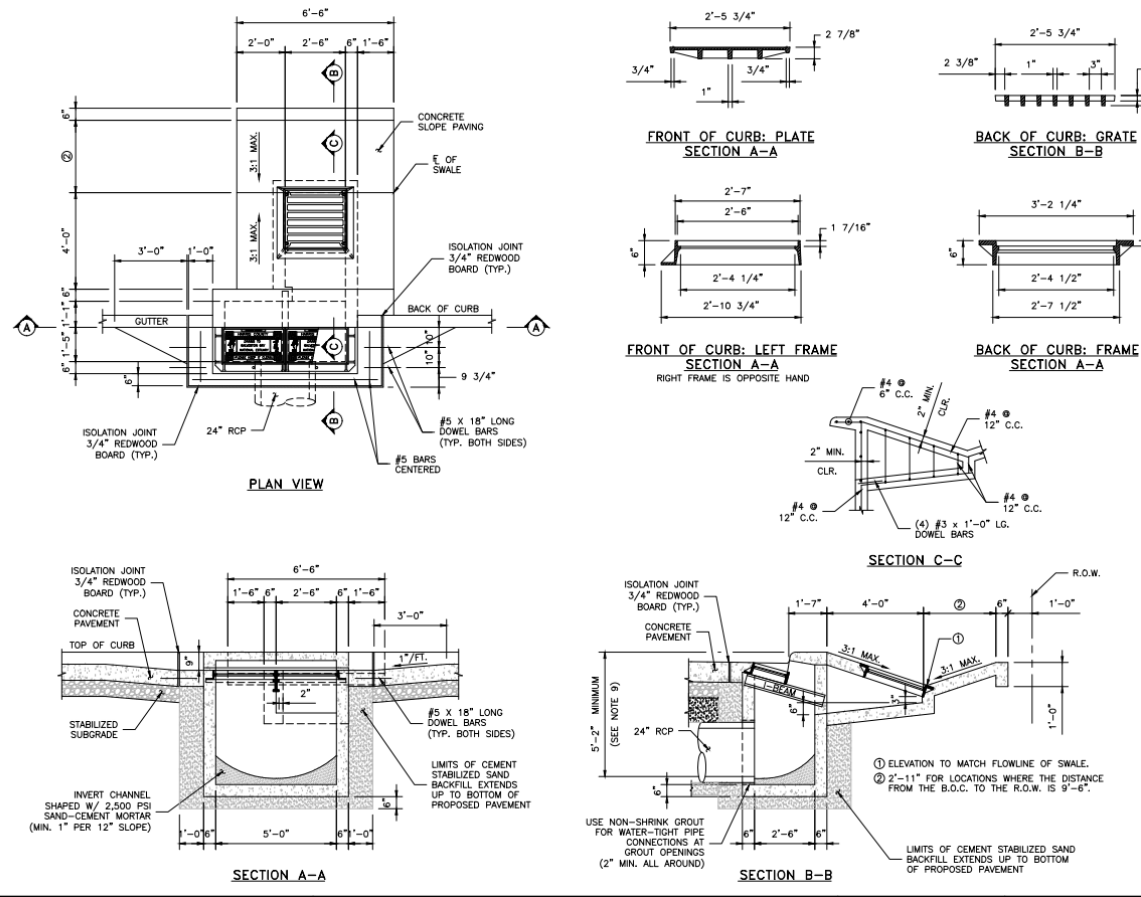
## Type B Inlet



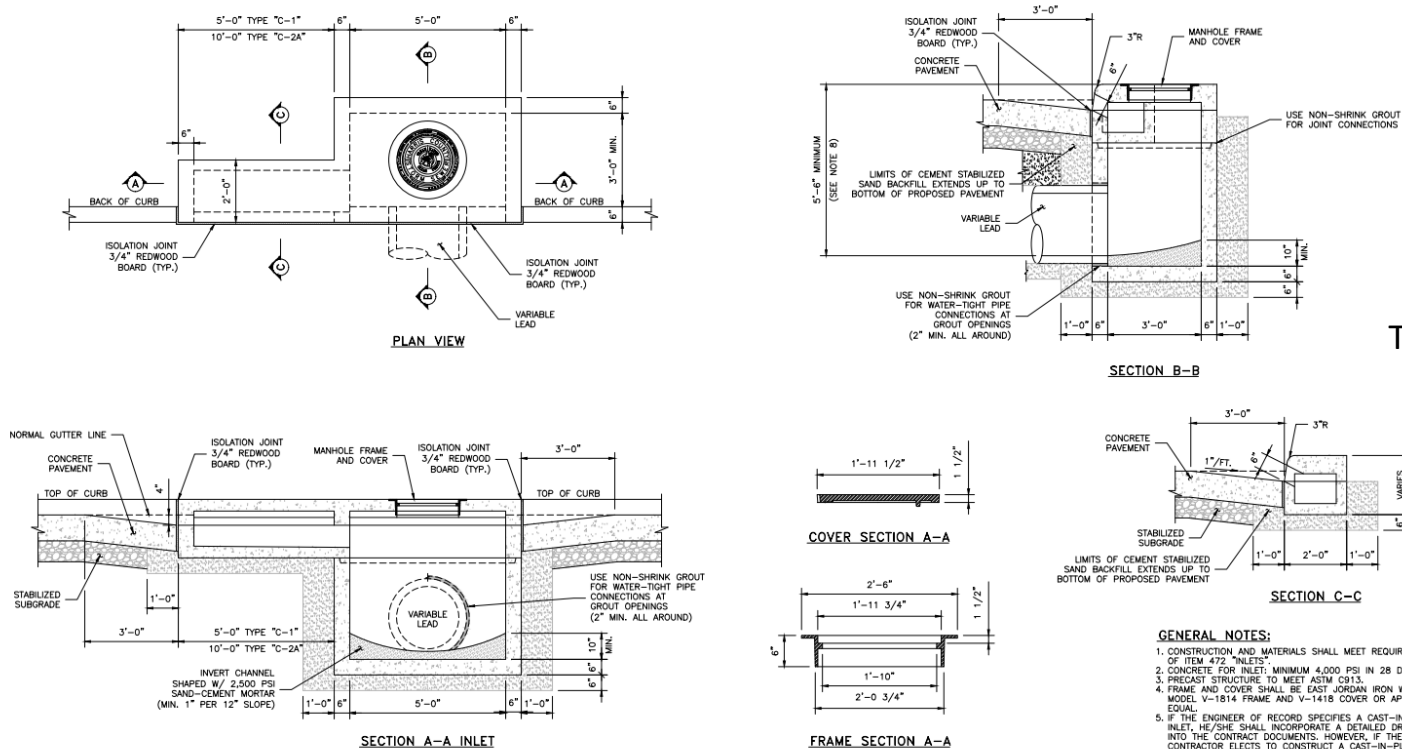
## Type B-B Inlet







Type B-B Mod Inlet

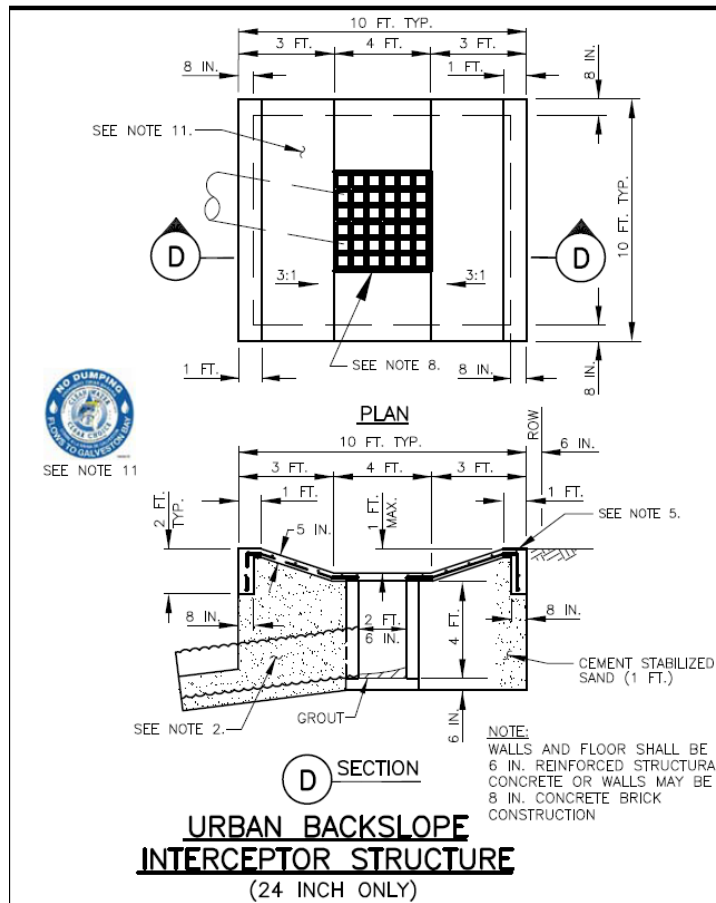


Type C Inlet

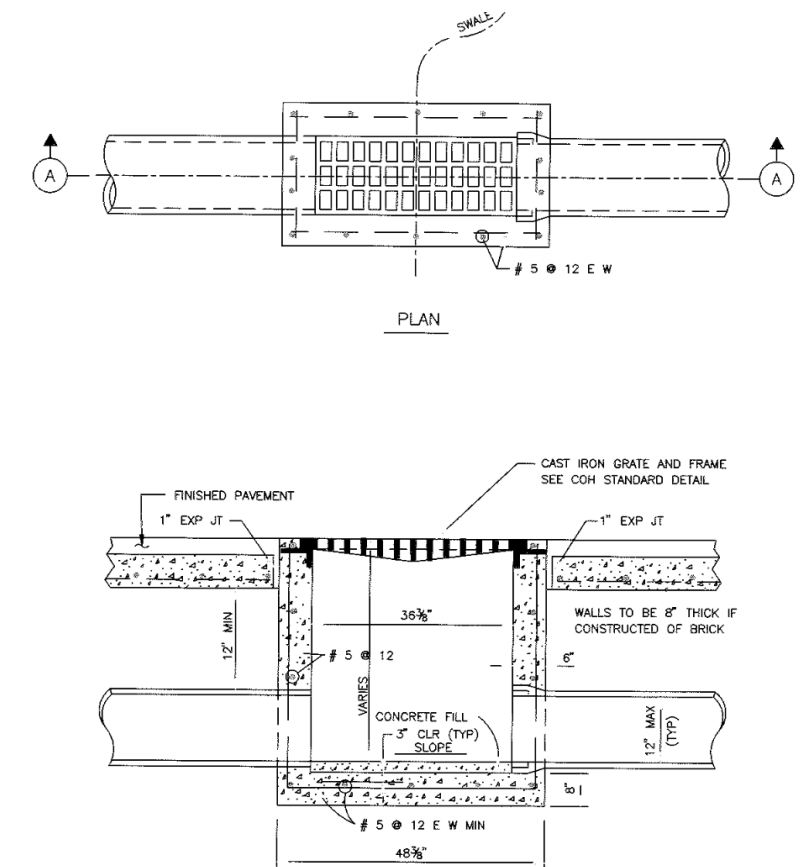


**INLET NOTES:**  
 TYPE "C-1": INLET ONLY - NO EXTENSION  
 TYPE "C-1": INLET WITH ONE EXTENSION (5'-0" LONG)  
 TYPE "C-2": INLET WITH ONE EXTENSION (5'-0" LONG) ON EACH SIDE  
 TYPE "C-2A": INLET WITH ONE DOUBLE EXTENSION (10'-0" LONG) ON ONE SIDE  
 \* FOR TYPE "C-2A" INLETS, PROVIDE A CENTER 6"x6" COLUMN IN THE CURB LINE BETWEEN ALL EXTENSIONS.

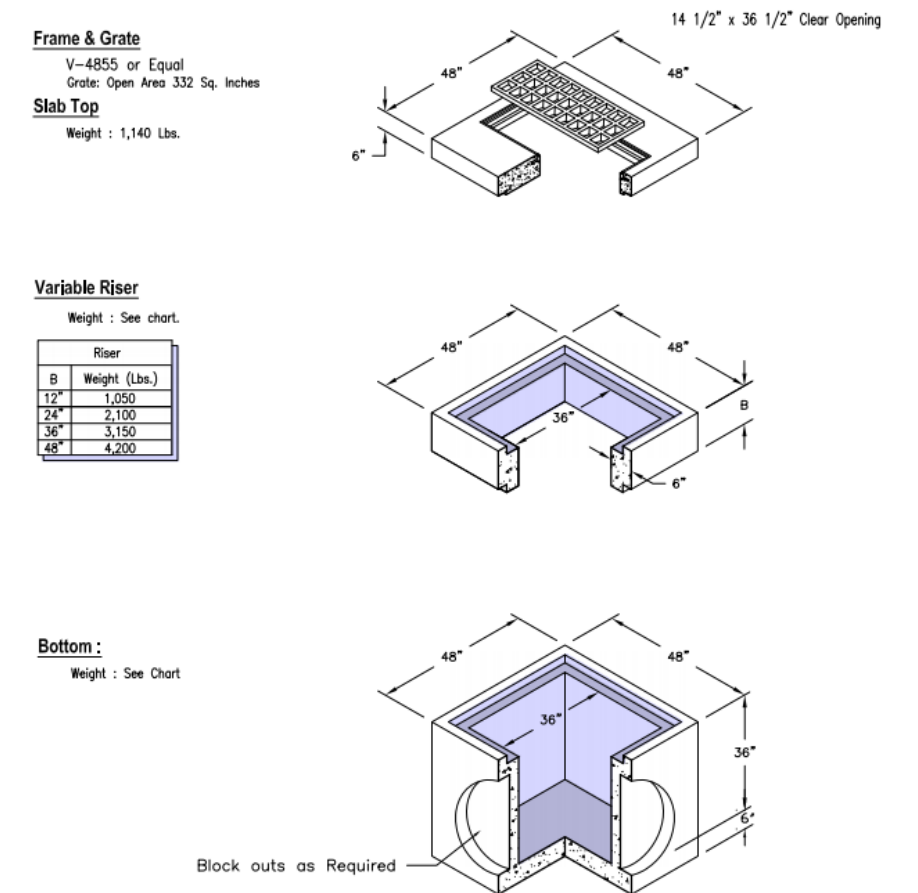
**GENERAL NOTES:**  
 1. CONSTRUCTION AND MATERIALS SHALL MEET REQUIREMENTS OF ITEM 472 "INLETS".  
 2. CONCRETE FOR INLET: MINIMUM 4,000 PSI IN 28 DAYS  
 3. PRECAST STRUCTURE TO MEET ASTM C913.  
 4. FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS MODEL V-1814 FRAME AND V-1418 COVER OR APPROVED EQUAL.  
 5. IF THE ENGINEER OF RECORD SPECIFIES A CAST-IN-PLACE INLET, HEIGHT SHALL INCORPORATE A DETAILED DRAWING INTO THE CONTRACT DOCUMENTS. HOWEVER, IF THE CONTRACTOR ELECTS TO CONSTRUCT A CAST-IN-PLACE INLET, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A DETAILED DRAWING, SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS.  
 6. SHOP DRAWINGS WILL BE REQUIRED FOR THE PRECAST SECTION OF INLET.  
 7. KNOCK-OUTS ARE NOT PERMISSIBLE FOR THE PRECAST SECTION OF INLET.  
 8. 5'-4" MINIMUM OR AS SPECIFIED BY THE ENGINEER OF RECORD.

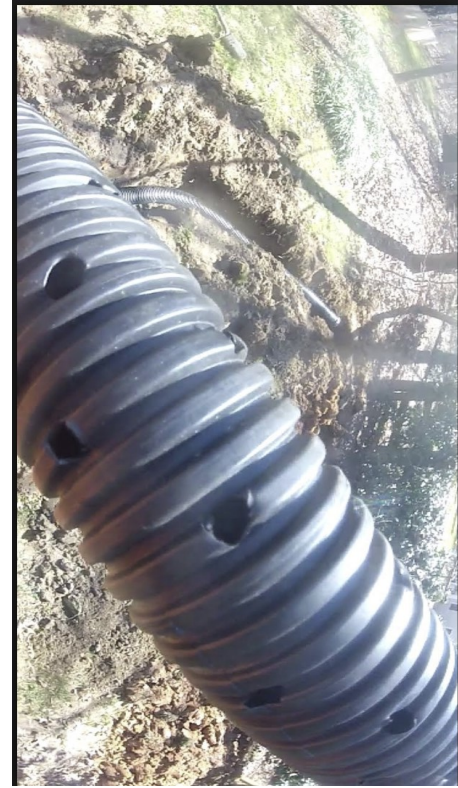


Urban Interceptor



Type E Inlet





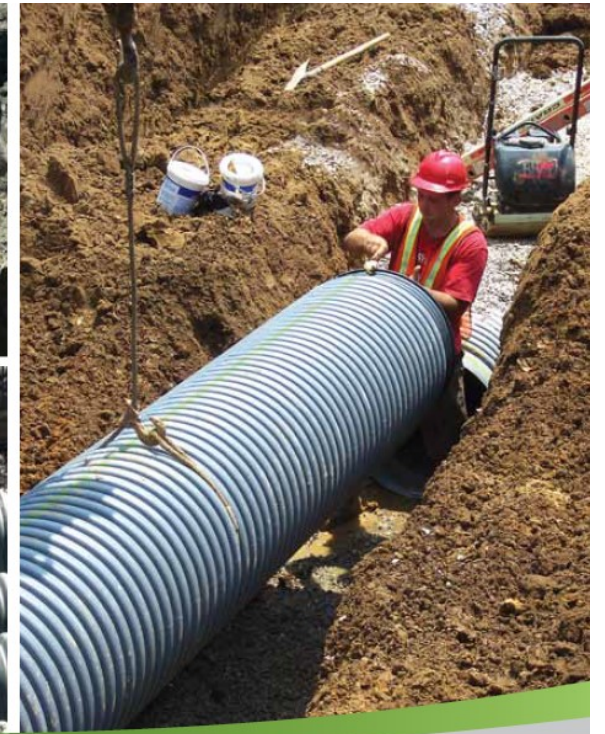
Perforated Pipe



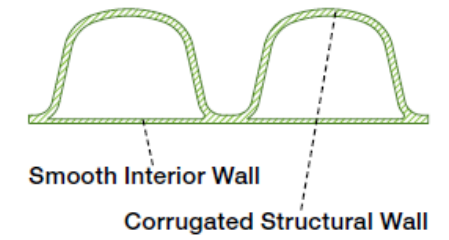
HDPE (High Density Polyethylene)



Plastic Pipe



ADS Storm Pipe (Variation of HDPE)



Concrete Pipe



Concrete Box Culverts



CMP  
Corrugated Metal Pipe



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**TOM S. RAMSEY, P.E.**  
HARRIS COUNTY PRECINCT 3 COMMISSIONER