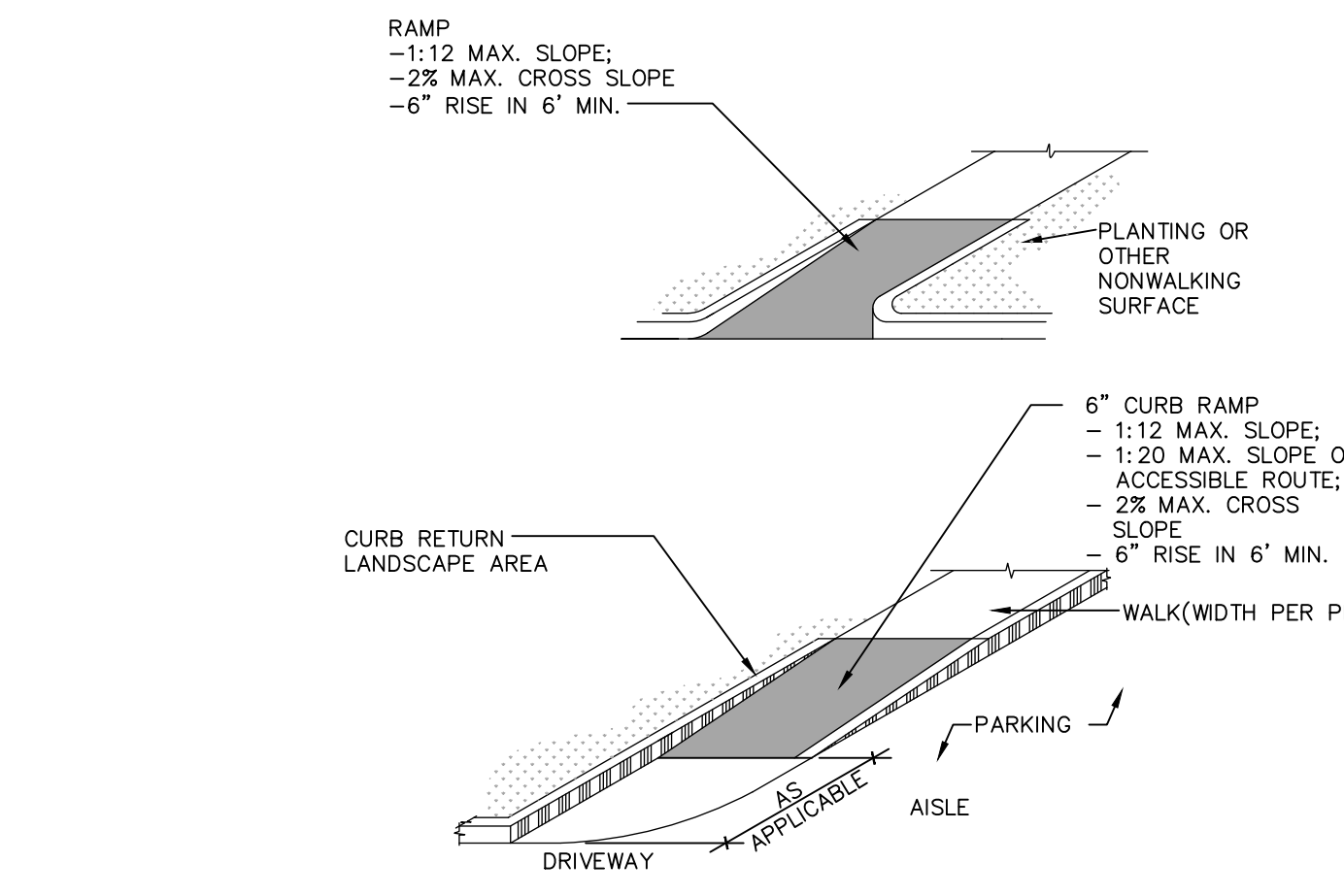
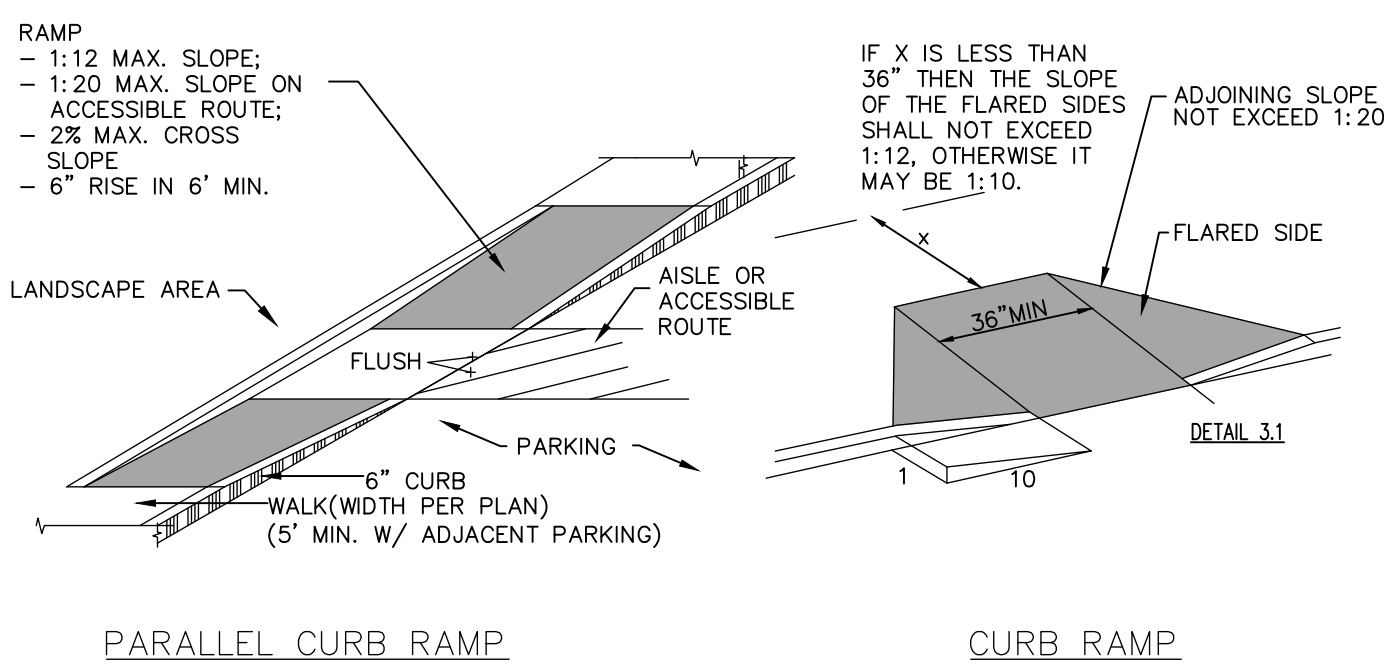


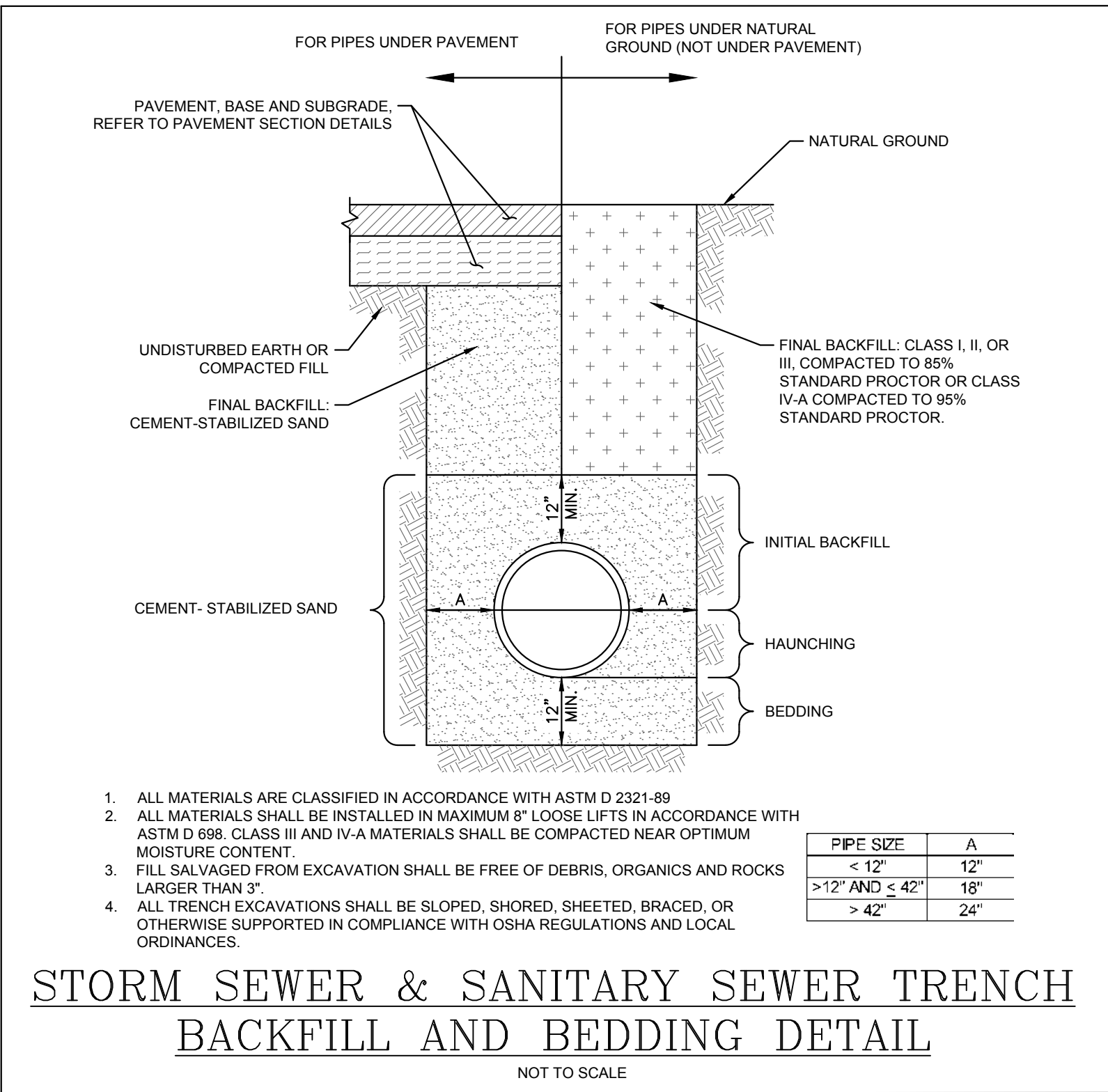
PIPE SIZE	"X" DIM.	PLUGS & TEES		90° BENDS		45° BENDS		22.50° BENDS		11.25° BENDS	
		"A"	MIN. AREA sf	MIN. AREA sf	MIN. AREA sf	MIN. AREA sf	MIN. AREA sf	MIN. AREA sf	MIN. AREA sf	MIN. AREA sf	AREA
6"	1'-6"	1'-6"	2.12	1'-9"	3.0	1'-3"	1.62	1'-0"	.83	1'-0"	
8"	1'-6"	2'-0"	3.77	2'-3"	5.33	1'-9"	2.89	1'-3"	1.47	1'-0"	
10"	1'-6"	2'-5"	5.89	2'-9"	8.33	2'-3"	4.51	1'-6"	2.30	1'-0"	
12"	1'-6"	3'-0"	8.48	3'-6"	12.00	2'-7"	6.49	1'-10"	3.31	1'-3"	1.66
16"	2'-0"	3'-11"	15.08	4'-7"	21.33	3'-6"	11.54	2'-6"	5.88	1'-9"	2.96
20"	2'-0"	4'-10"	23.56	5'-9"	33.32	4'-3"	18.03	3'-0"	9.19	2'-2"	4.62
24"	2'-0"	5'-10"	33.93	7'-0"	48.00	5'-1"	25.97	3'-7"	13.24	2'-7"	6.65
30"	2'-6"	7'-3"	53.04	8'-8"	74.97	6'-4"	40.58	4'-7"	20.69	3'-3"	10.39
36"	3'-0"	8'-9"	76.40	10'-5"	107.96	7'-7"	58.43	5'-6"	29.79	3'-10"	14.97
42"	3'-6"	10'-3"	103.91	12'-2"	146.95	9'-0"	79.53	6'-5"	40.54	4'-6"	20.37

- NOTES:**
- BEARING AREAS SHOWN ARE BASED ON 150 PSI TEST PRESSURE AND 3000 PSF ALLOWABLE SOIL BEARING PRESSURE.
  - WRAP ALL BELOW GROUND IRON ASSEMBLIES IN POLYETHYLENE ACCORDING TO AWWA C105.
  - ALL TEES, BENDS, ETC. SHALL BE MECHANICALLY RESTRAINED BY MEGALUS OR APPROVED EQUAL.
  - THE LARGER DIAMETER PIPE OF FITTING SHALL GOVERN DIMENSION "A".

**HORIZONTAL AND VERTICAL BLOCKING**  
NOT TO SCALE



- TAS SECTION 406 - CURB RAMPS.
- TAS SECTION 406.1 GENERAL.  
CURB RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH 406, 405.2 THROUGH 405.5, AND 405.10.
- TAS SECTION 406.2 COUNTER SLOPE.  
COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.
- TAS SECTION 406.3 SIDES OF CURB RAMPS.  
WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.
- TAS SECTION 406.4 LANDINGS.  
LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES MINIMUM. THE LANDING CLEAR WIDTH SHALL AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING.
- EXCEPTION: IN ALTERATIONS, WHERE THERE IS NO LANDING AT THE TOP OF CURB RAMP FLARES SHALL BE PROVIDED AND SHALL NOT BE STEEPER THAN 1:12.
- TAS SECTION 406.5 LOCATION.  
CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
- TAS SECTION 406.6 DIAGONAL CURB RAMPS.  
DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL-DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.
- TAS SECTION 406.7 ISLANDS.  
RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES LONG MINIMUM BY 36 INCHES WIDE MINIMUM AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. EACH 48 INCH MINIMUM BY 36 INCH MINIMUM AREA SHALL BE ORIENTED SO THAT THE 48 INCH MINIMUM LENGTH IS IN THE DIRECTION OF THE RUNNING SLOPE OF THE CURB RAMP IT SERVES. THE 48 INCH MINIMUM BY 36 INCH MINIMUM AREAS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP.
- TAS SECTION 405.2 SLOPE  
RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12
- MAXIMUM RAMP SLOPE AND RISE FOR EXISTING SITES, BUILDINGS, AND FACILITIES  
- SLOPE STEEPER THAN 1:10 BUT NOT STEEPER THAN 1:8, MAXIMUM RISE IS 3 INCHES  
- SLOPE STEEPER THAN 1:12 BUT NOT STEEPER THAN 1:10, MAXIMUM SLOPE IS 6 INCHES  
- A SLOPE STEEPER THAN 1:8 IS PROHIBITED.
- TAS SECTION 405.3 CROSS SLOPE.  
CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48
- TAS SECTION 405.4 FLOOR OR GROUND SURFACES.  
FLOOR OR GROUND SURFACES OF RAMP RUNS SHALL COMPLY WITH 302. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.
- TAS SECTION 405.5 CLEAR WIDTH.  
THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36 INCHES MINIMUM.
- TAS SECTION 405.10 WET CONDITIONS.  
LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.



Plotted By: Lanier, Morgan. Sheet Set: R90. Layout: 09.0. March 08, 2019. 02:30:14pm K:\WDL\_Civil\0979005D1 - Triad Gosling Retail\DWG\PlanSheets\C-Detail.dwg  
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NO.	REVISIONS	DATE	BY

**Kimley»Horn**

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STATE OF TEXAS  
STEVEN C. FREEMAN  
107308  
PROFESSIONAL ENGINEER

3/8/19

RHA PROJECT 067800501  
DATE 03/08/2019  
SCALE AS SHOWN  
DESIGNED BY SILH  
DRAWN BY MITL  
CHECKED BY SCF

**CONSTRUCTION DETAILS (1 OF 3)**

TEXAS  
**TRIAD GOSLING RETAIL**  
HARRIS COUNTY

SHEET NUMBER  
**C9.0**