Public Works Standard Drawings Subcommittee Meeting

Monday, April 13, 2020 WebEx

Welcome and Introductions

Meeting Summary

Division 2000: Pavement Systems

DIVISION 2000 PAVEMENT SYSTEMS

TABLE OF CONTENTS

Drawing #	Subject	Section I: Item #
2010	Reinforced Concrete Pavement Six-Lane Divided Thoroughfare	303. pages 303-1 to 303-23
2020	Reinforced Concrete Pavement Four-Lane Divided Thoroughfare	303. pages 303-1 to 303-23
2030	Reinforced Concrete Pavement 2- & 4- Undivided Thoroughfare	303. pages 303-1 to 303-23
2040	Reinforced Concrete Pavement Alleys	303.5. pages 303-1 to303-23
2050	Reinforced Concrete Pavement Joints	303.5.4. pages 303-1 to 303-23
2060	Reinforced Concrete Pavement Transverse Joint Spacing	303.5.4. pages 303-1 to 303-23
2070	Reinforced Concrete Pavement Street Headers	303.4. pages 303-1 to 303-23
2080	Reinforced Concrete Pavement Bridge Approach Slab	303. pages 303-1 to 303-23
2090	Hot Mix Asphalt Pavement Six-Lane Divided Thoroughfare	302. pages 302-1 to 302-25
2100	Hot Mix Asphalt Pavement Four-Lane Divided Thoroughfare	302. pages 302-1 to 302-25
 2110	Hot Mix Asphalt Pavement 2- & 4-Lane Undivided Thoroughfare	302. pages 302-1 to 302-25
2120	Concrete Curb & Gutter Integral, Separate, and Doweled	305.1. pages 305-1 to 305-4
2125A-2125B	Curb Ramps	
2130	Median Island Pavement Nose & Left Turn Lane	305.3. pages 305-1 to 305-4
2140	Median Island Pavement Monolithic Concrete Nose	305.3. pages 305-1 to 305-4
21250A-2150B	Driveway Approach Flared Return Type	305.2. pages 305-1 to 305-4
2155	Driveway Approach Radius Return Type	305.2. pages 305-1 to 305-4
2160	Alley Approach Radius Return Type	305.2. pages 305-1 to 305-4
2170	Reinforced Concrete Sidewalks Joints and Spacing	305.2. pages 305-1 to 305-4

2115 Pavement Systems General Notes

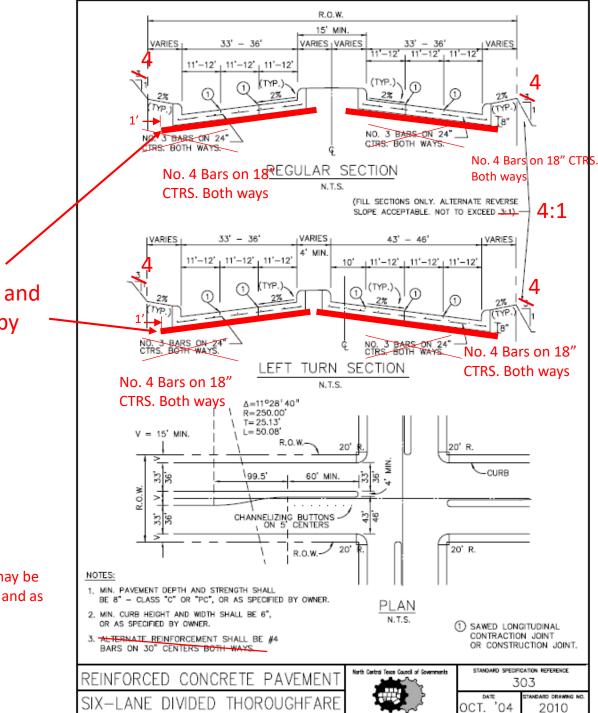
October 2004

	Drawing #	<u>Subject</u>	Section I: Item #
	2180	Reinforced Concrete Retaining Wall Integral With Sidewalk	802.2. pages 802-1 to 802-7
2115	2190	Pavement Systems General Notes	302. pages 302-1 to 302-25 303. pages 303-1 to 303-23
	2200	Subdrains Pavement Subgrade	301. pages 301-1 to 301-15
	2210	Alley Geometrics Type "A" & Type "B"	303.5. pages 303-1 to 303-23
	2220	Alley Geometrics Type "C" & Type "D"	303.5. pages 303-1 to 303-23
	2230	Alley Geometrics Type "E" & Type "F"	303.5. pages 303-1 to 303-23
	2240	Alley Geometrics Type "G" & Type "H"	303.5. pages 303-1 to 303-23
	2250	Alley Geometrics Type "J"	303.5. pages 303-1 to 303-23
	2260	Alley Intersection Proposed To Existing	303.5. pages 303-1 to 303-23
	2270A	Metal Beam Guard Fence Roadside Placement & Beam Elements	801.2. pages 801-1 to 801-5
	2270B	Metal Beam Guard Fence Line Post &Connections	801.2. pages 801-1 to 801-5
	2270C	Metal Beam Guard Fence End Section & Angle Anchor Post	801.2. pages 801-1 to 801-5
	2270D	Metal Beam Guard Fence Special End Shoe & Anchor Post	801.2. pages 801-1 to 801-5
	2270E	Metal Beam Guard Fence General Notes	801.2. pages 801-1 to 801-5
	2280A	Metal Beam Guard Fence Two-Way Traffic Bridge End	801.2. pages 801-1 to 801-5
	2280B	Metal Beam Guard Fence Two-Way Traffic Bridge End	801.2. pages 801-1 to 801-5
	2290	Metal Beam Barricade End of Road	801.2. pages 801-1 to 801-5

8" minimum stabilized subgrade per section 301 and as approved or specified by owner

3. Alternative subgrade, thickness, and steel may be utilized with more detailed study and analysis and as approved by owner

4. If lime stabilized subgrade is utilized a minimum of 40 lbs/sy is required

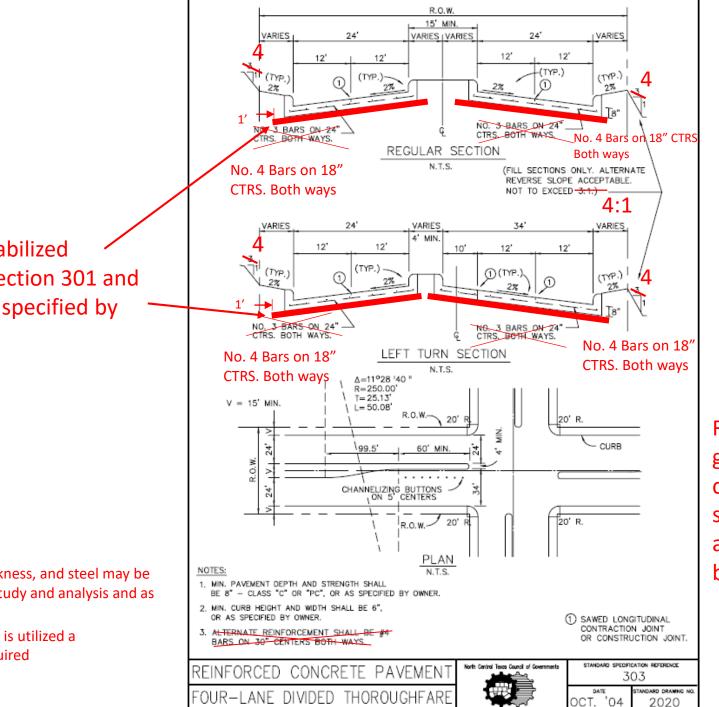


Replace Plan with a more general layout to include crosswalks, ADA ramps, striping, and possibly additional lane width for bicycle lanes per TxDOT 8" minimum stabilized subgrade per section 301 and as approved or specified by owner

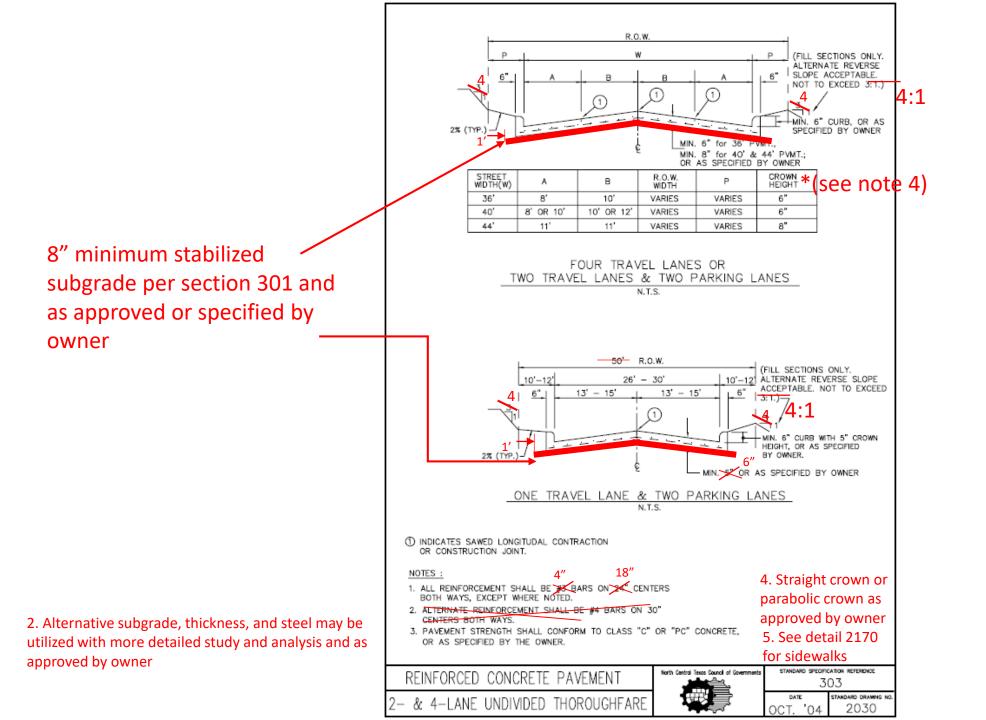
3. Alternative subgrade, thickness, and steel may be utilized with more detailed study and analysis and as approved by owner

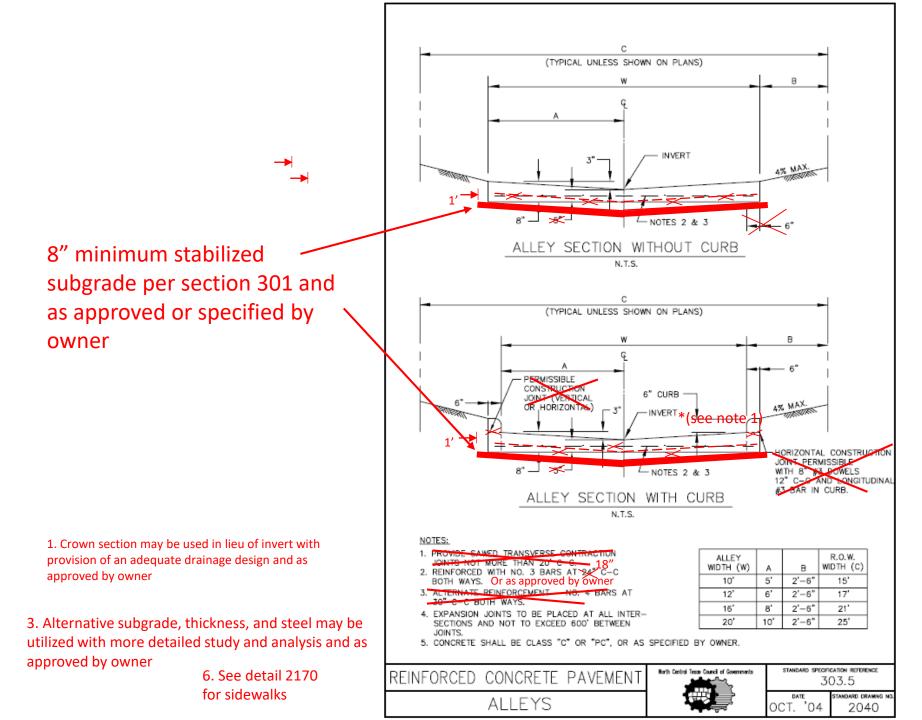
4. If lime stabilized subgrade is utilized a minimum of 40 lbs/sy is required

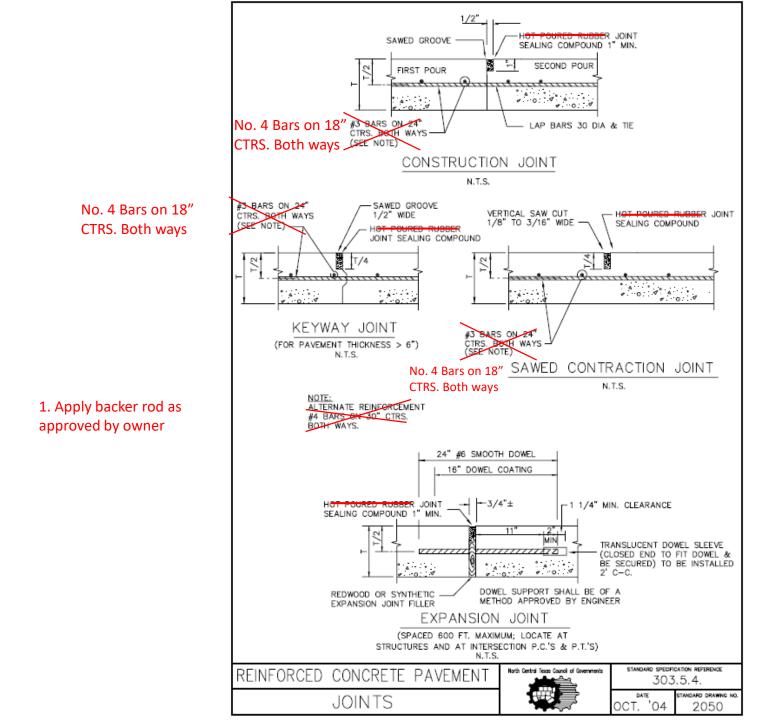
5. See detail 2170 for sidewalks

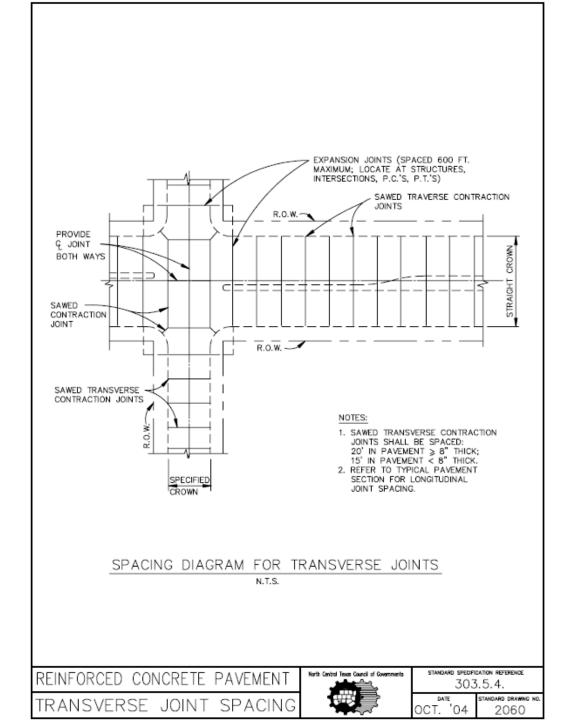


Replace Plan with a more general layout to include crosswalks, ADA ramps, striping, and possibly additional lane width for bicycle lanes per TxDOT

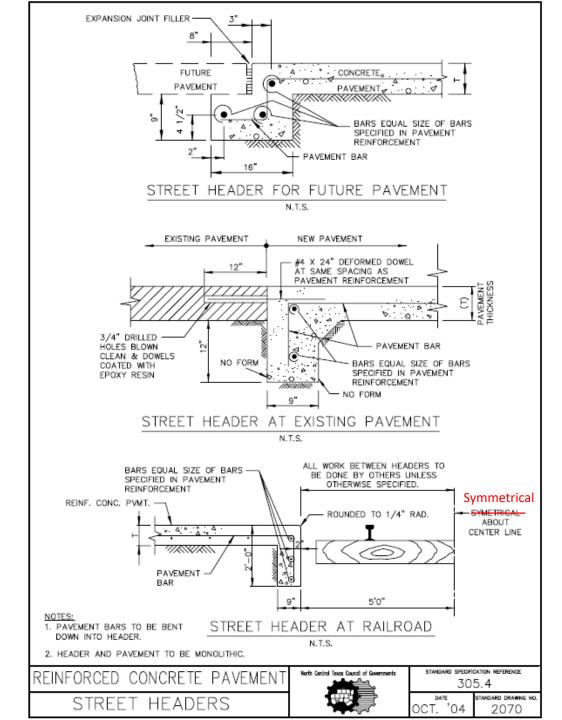


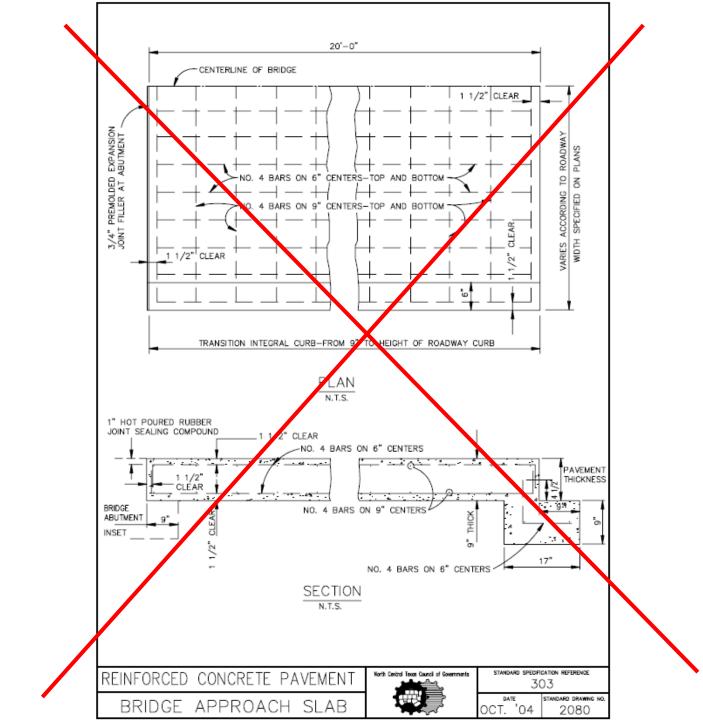




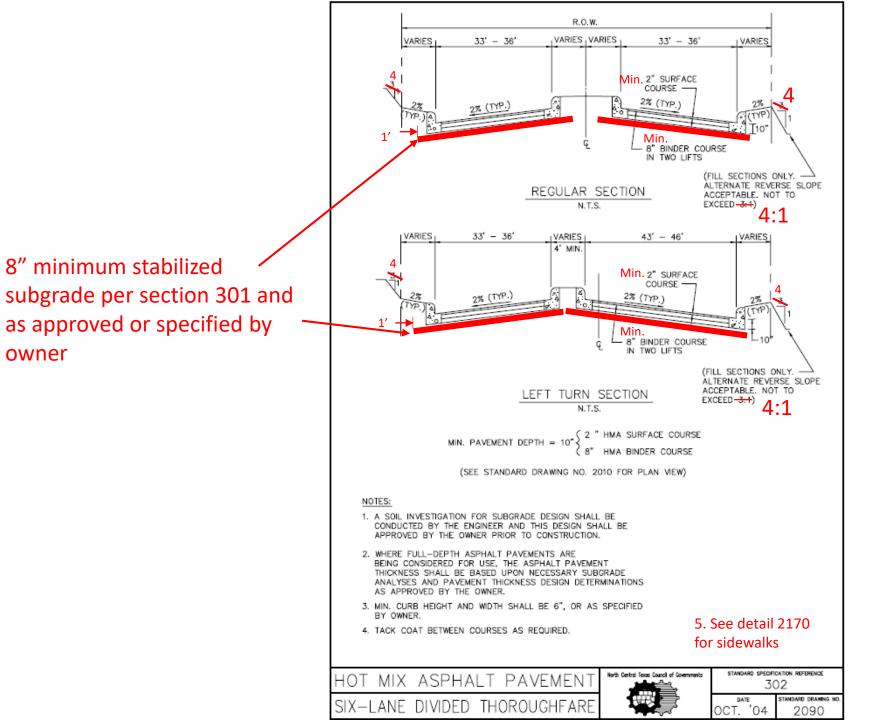


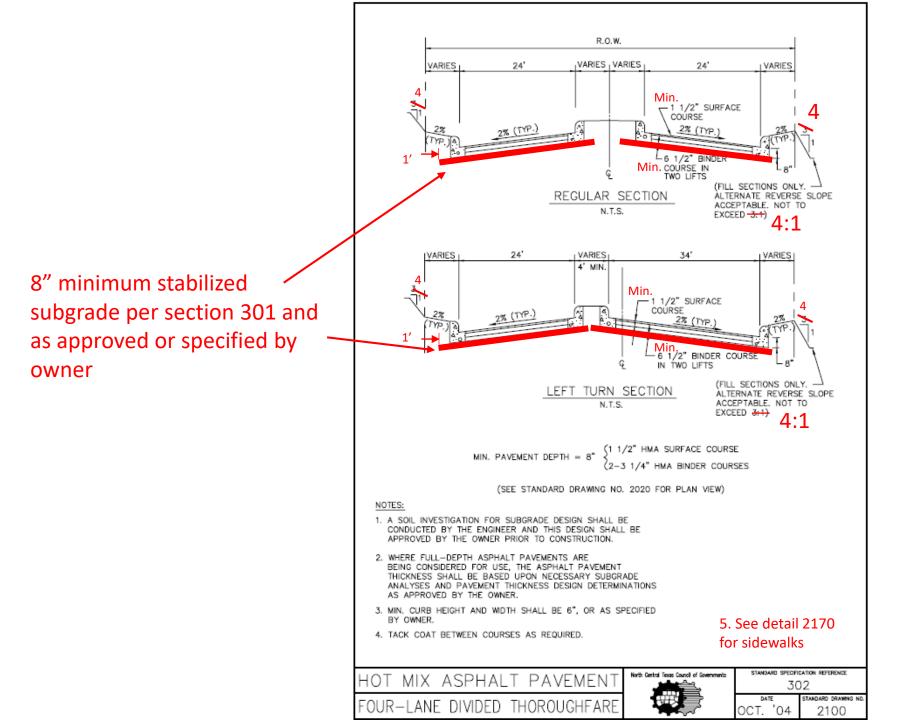
*cleanup lines through median

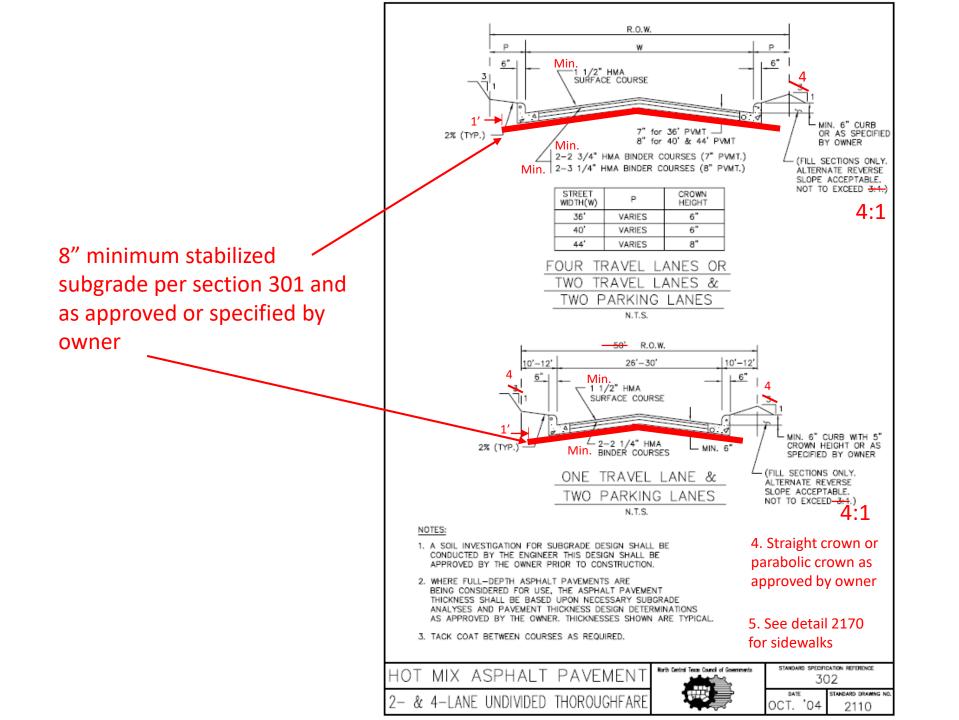


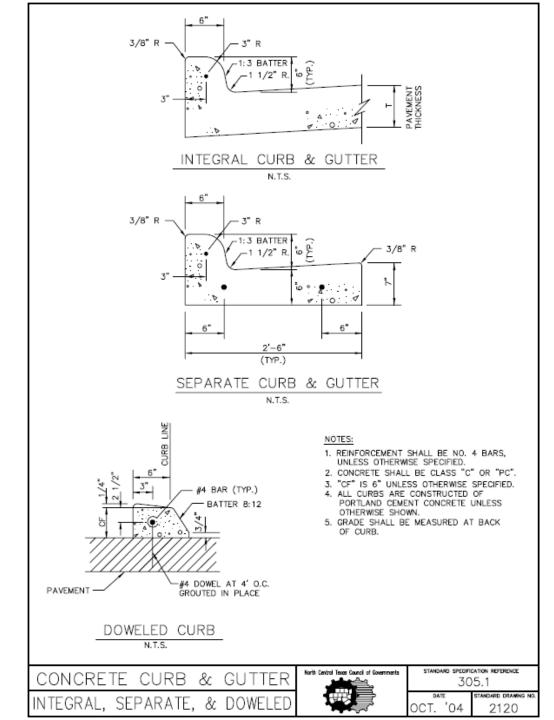


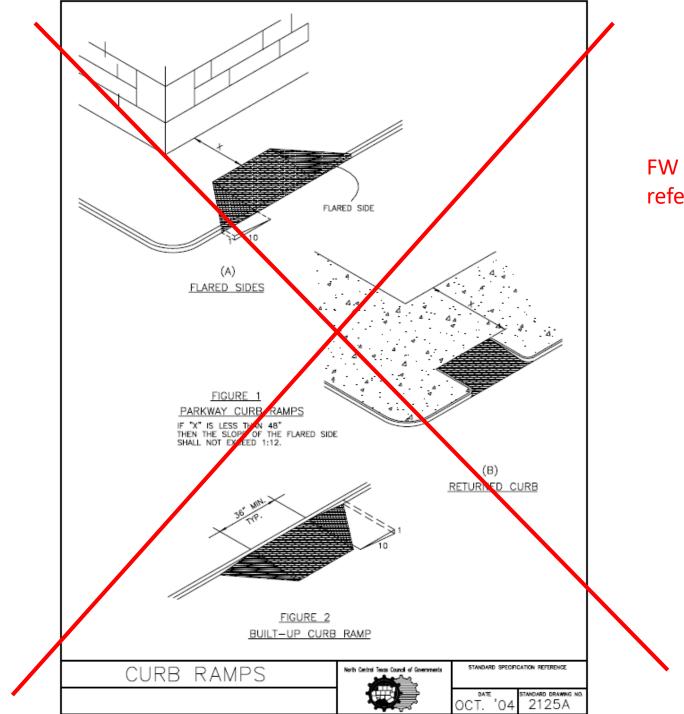
Remove detail and reference TxDoT detail in specs if needed











FW examples or reference TxDot

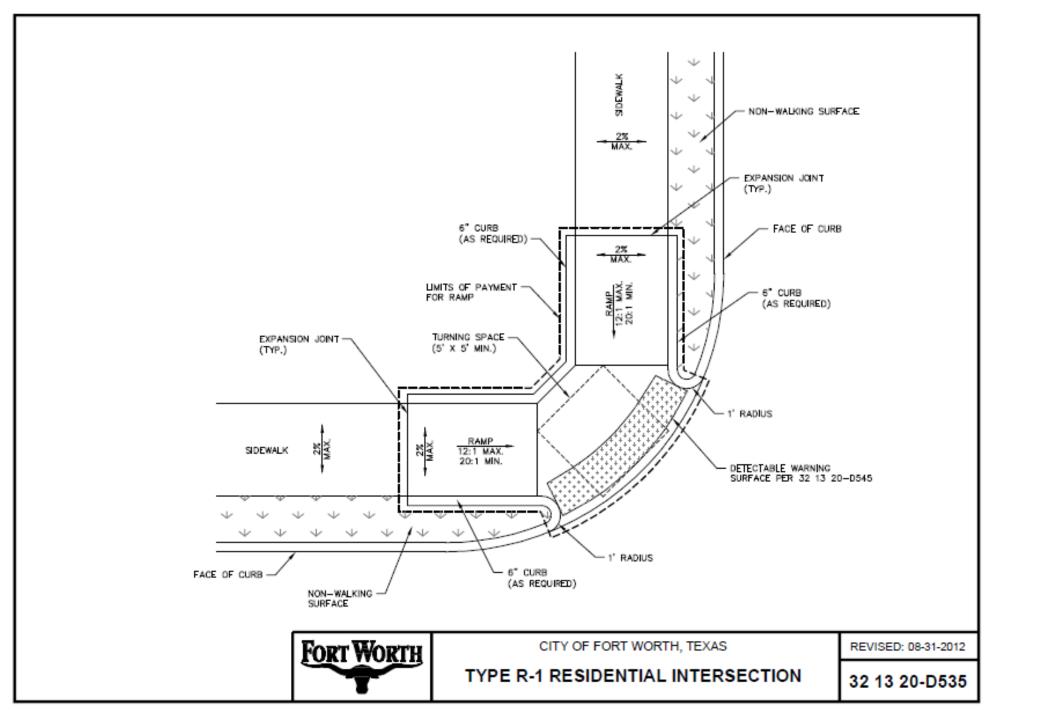
CURB RAMPS NOTES: GENERAL REQUIREMENTS CURB RAMPS SHALL BE CONSTRUCTED AS PER THE REQUIREMENTS AND SPECIFICATIONS OF THE TEXAS ACCESSIBILITY STANDARDS AND THE ADA & ABA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES. (FEDERAL REGISTER/ VOL. 69, NO. 141, FRIDAY, JULY 23, 2004) LOCATION: CURB RAMPS UNDER THESE PROVISIONS. SHALL BE WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB. SLOPE: SLOPES ON CURB RAMPS SHALL BE MEASURED AS FOLLOWS: (Y:X = VERTICAL:HORIZONTAL) A) TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. B) MAXIMUM SLOPES OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATLEY ADJACENT TO THE CURB OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20. C) THE LEAST POSSIBLE SLOPE SHALL BE USED FOR ANY RAMP. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12, THE MAXIMUM RISE FOR ANY RUN SHALL BE 30" (760 MM). CURB RAMPS AND RAMPS TO BE CONSTRUCTED ON EXISTING SITES OR IN EXISTING BUILDINGS OR FACILITIES MAY HAVE SLOPES AND RISES IF SPACE LIMITATIONS PROHIBIT THE USE OF A 1:12 SLOPE OR LESS, AS FOLLOWS: 1. A SLOPE BETWEEN 1:10 AND 1:12 IS ALLOWED FOR A MAXIMUM RISE OF 6". 2. A SLOPE BETWEEN 1:8 AND 1:10 IS ALLOWED FOR A MAXIMUM OF 3" A SLOPE STEEPER THAN 1:8 IS NOT ALLOWED. RAMP WIDTH: THE MINIMUM WIDTH OF A CURB RAMP SHALL BE 36" EXCLUSIVE OF FLARED SIDES. SURFACE: SURFACES OF CURB RAMPS, SHALL BE STABLE FIRM, AND SLIP RESISTANT. SURFACE TEXTURES SHALL CONSIST OF EXPOSED CRUSHED STONE AGGREGATE, ROUGHENED CONCRETE, RUBBER, RAISED ABRASIVE STRIPS, OR GROOVES. EXTENDING THE FULL WIDTH AND DEPTH OF THE CURB RAMP. SURFACES THAT ARE RAISED, ETCHED, OR GROOVED IN A WAY THAT WOULD ALLOW WATER TO ACCUMULATE ARE PROHIBITED. FOR PURPOSES OF WARNING, THE FULL WIDTH AND DEPTH OF CURB RAMPS SHALL HAVE A LIGHT REFLECTIVE VALUE AND TEXTURE THAT SIGNIFICANTLY CONTRASTS WITH THAT OF ADJOINING PEDESTRIAN ROUTES. SIDES OF CURB RAMPS: IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES. THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:10 (SEE FIG. 1 (A)) CURB RAMPS WITH RETURNED CURBS MAY BE USED WHERE PEDESTRIANS WOULD NOT WALK ACROSS THE RAMP. (SEE FIG. 1 (B)) BUILT-UP RAMPS: BUILT-UP CURB RAMPS SHALL BE LOCATED SO THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES (SEE FIG. 2) OBSTRUCTIONS: CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES. LOCATION AT MARKED CROSSINGS: CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. DIAGONAL CURB RAMPS IF DIAGONAL (OR CORNER TYPE) CURB RAMPS HAVE RETURNED CURBS OR OTHER WELL DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE 48" (1220 MM) MINIMUM. IF DIAGONAL CURB RAMPS ARE PROVIDED AT MARKED CROSSINGS, THE 48" (1220 MM) CLEAR SPACE SHALL BE WITHIN THE MARKINGS. IF DIAGONAL CURB RAMPS HAVE FLARED SIDES, THEY SHALL ALSO HAVE AT LEAST A 24" (610 MM) LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING. ANY RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 48" (1220 MM) LONG BETWEEN THE CURB RAMPS IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. CONSTRUCTION (A.) THE CONTRACTOR SHALL SAWCUT, REMOVE AND DISPOSE OFF-SITE THE REQUIRED EXISTING CONCRETE SIDEWALK. CURB AND GUTTER, TO CONSTRUCT THE PROPOSED RAMPS. (B.) CONCRETE SIDEWALKS AND RAMPS SHALL BE MINIMUM 4" THICK, 4000 PSI, 5 SACK CONCRETE, REINFORCED WITH #3 BARS AT 14" CENTERS BOTH WAYS, PLACED OVER A 2" THICK SAND CUSHION EMBEDMENT. (C.) THE CONTRACTOR SHALL USE 1" PREMOLDED EXPANSION JOINT MATERIAL BETWEEN THE PROPOSED SIDEWALKS AND RAMPS AT THE BACK OF CURBS, AND AT JOINTS AT NO EXTRA PAY. (D.) DUMMY JOINT REQUIRED EVERY 4' IN 4' WIDE SIDEWALKS AND EVERY 5' IN 6' WIDE SIDEWALK. STANDARD SPECIFICATION REFERENCE CURB RAMPS North Central Texas Council of Governments TANDARD DRAWING NO. DATE

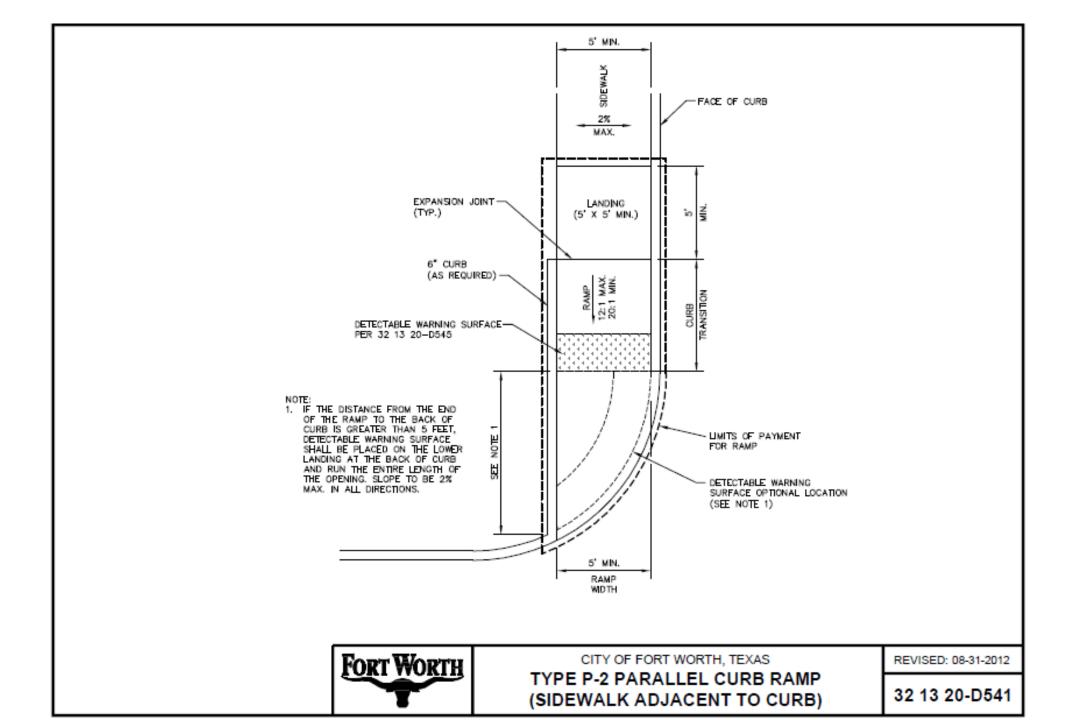
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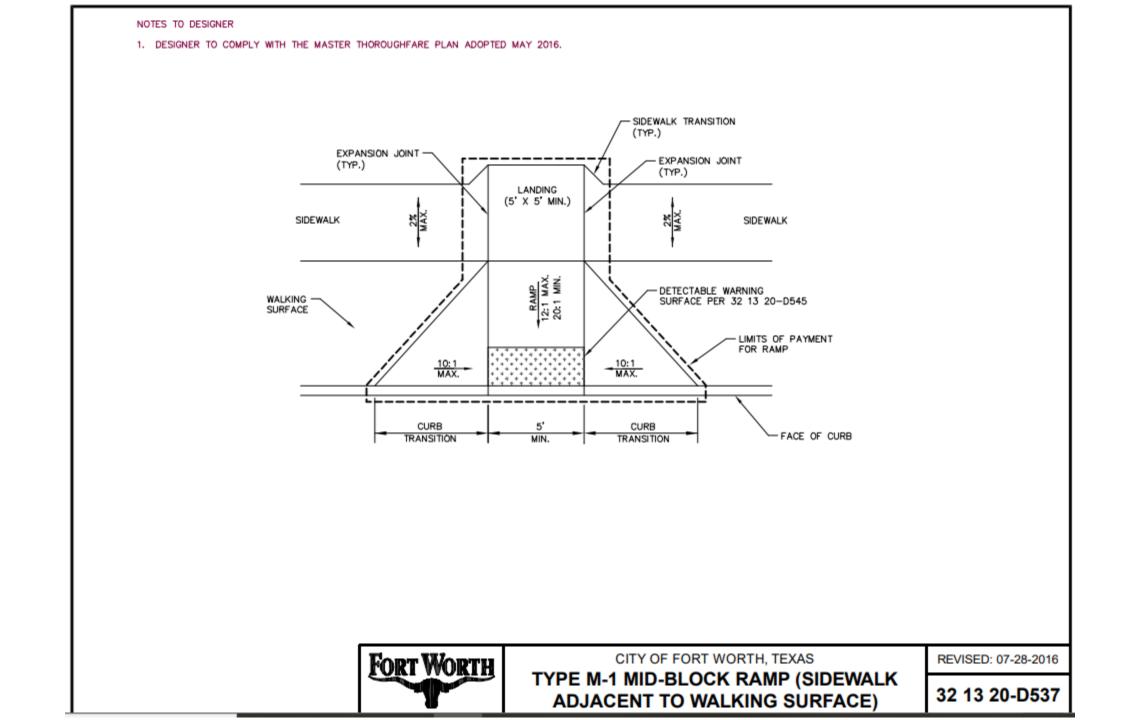
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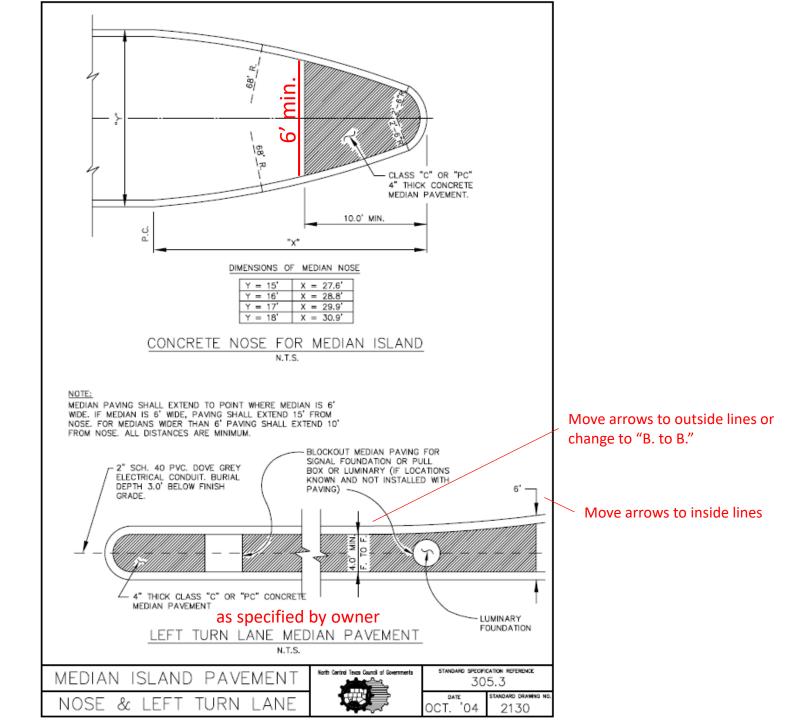
2125B

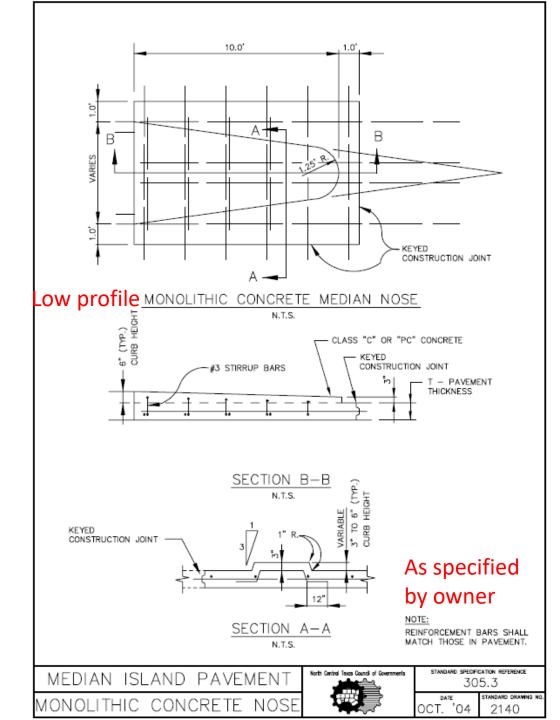
Update and remove 2125A or update to reference other detail

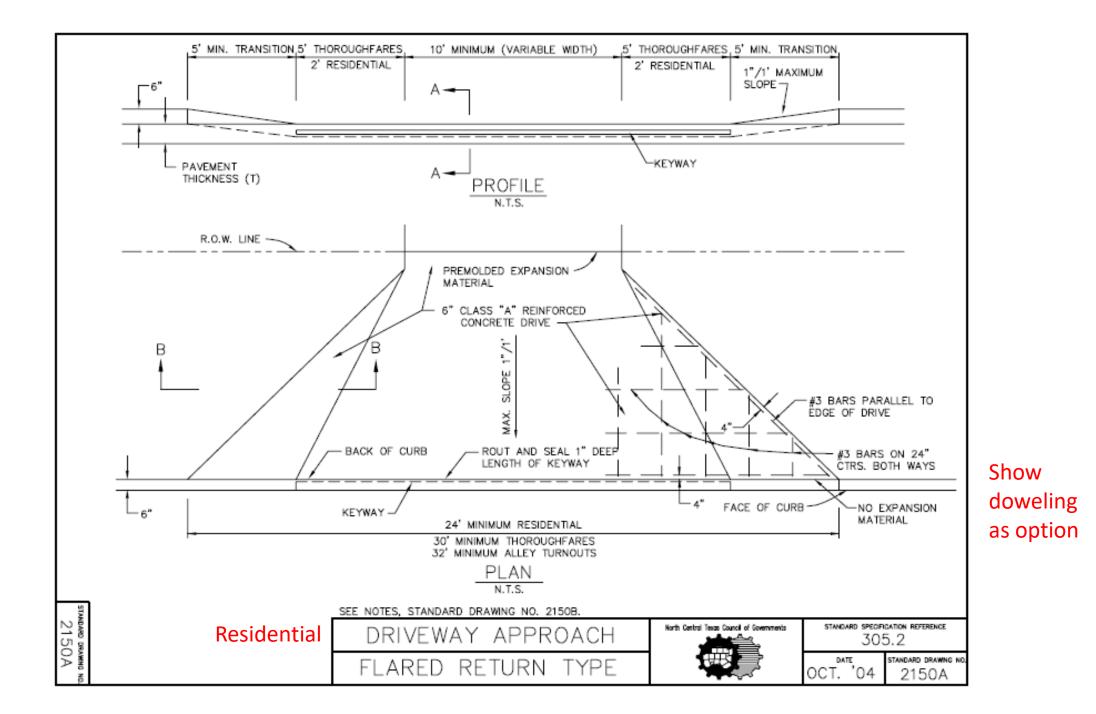


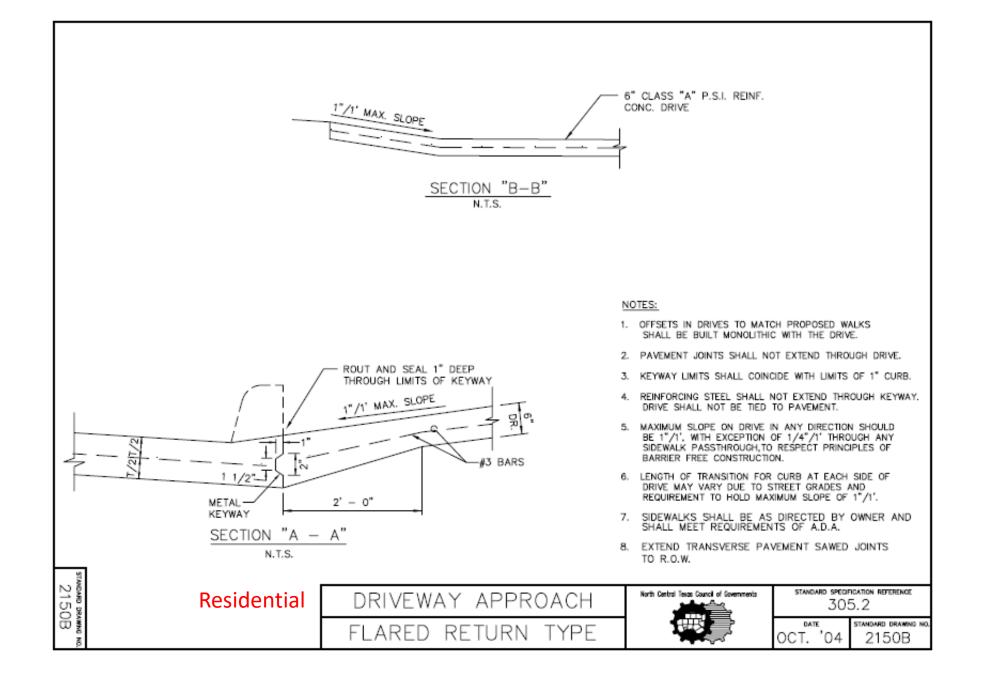


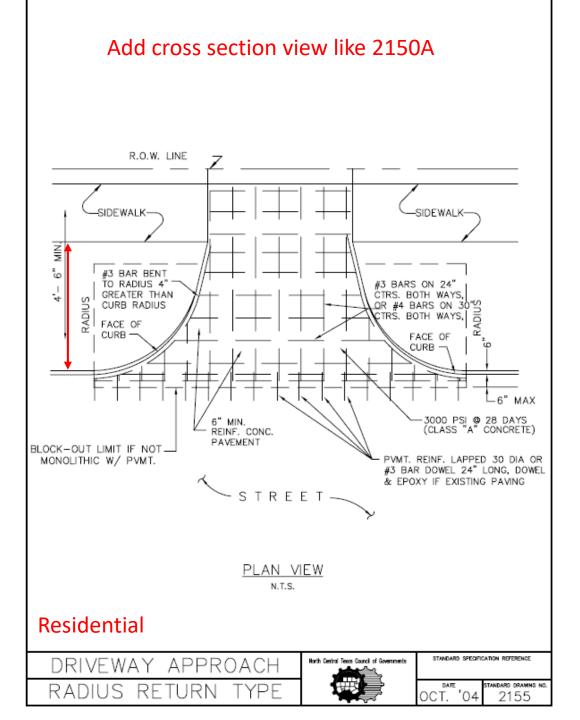


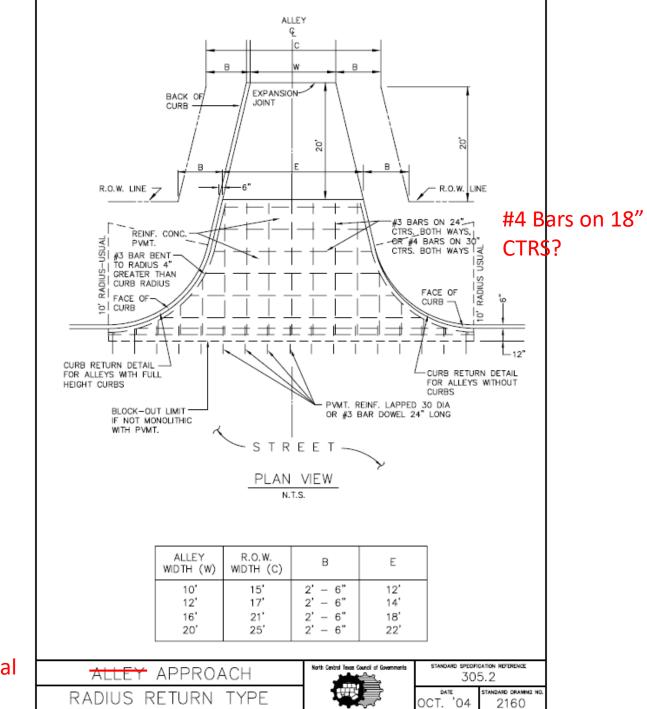




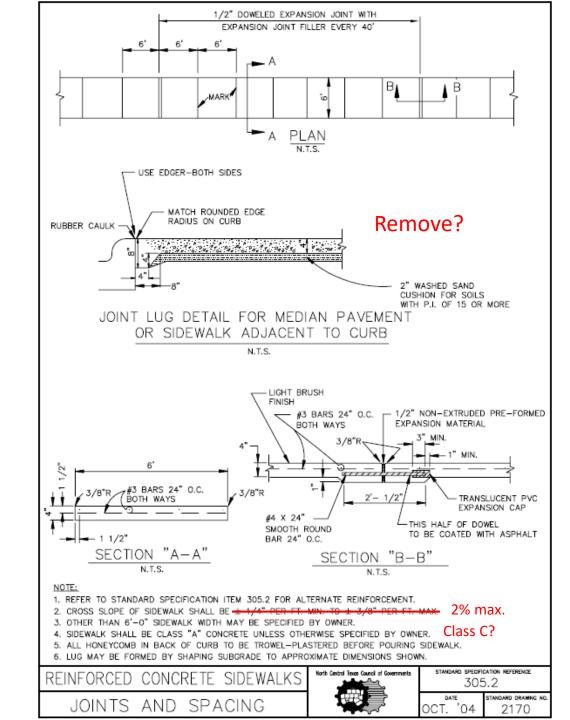


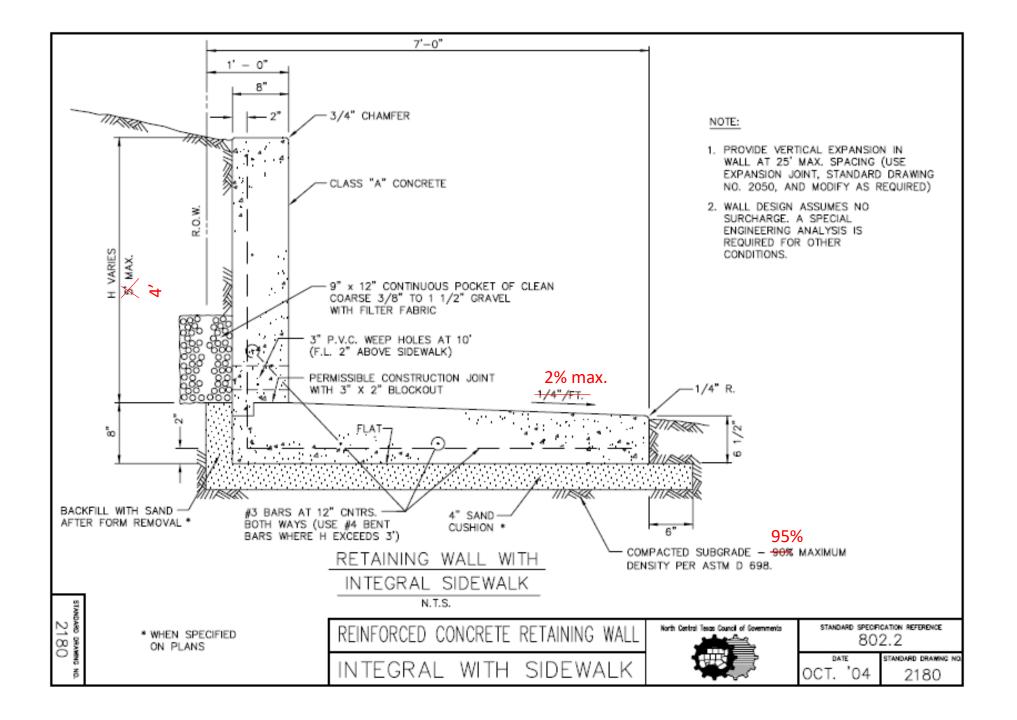




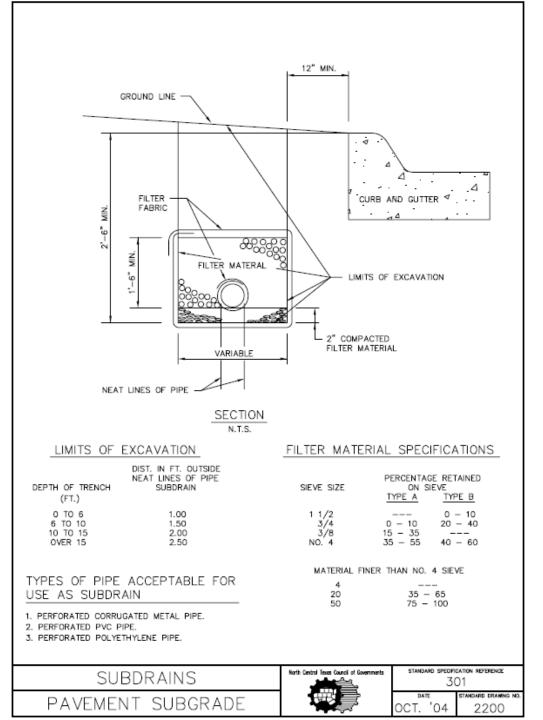


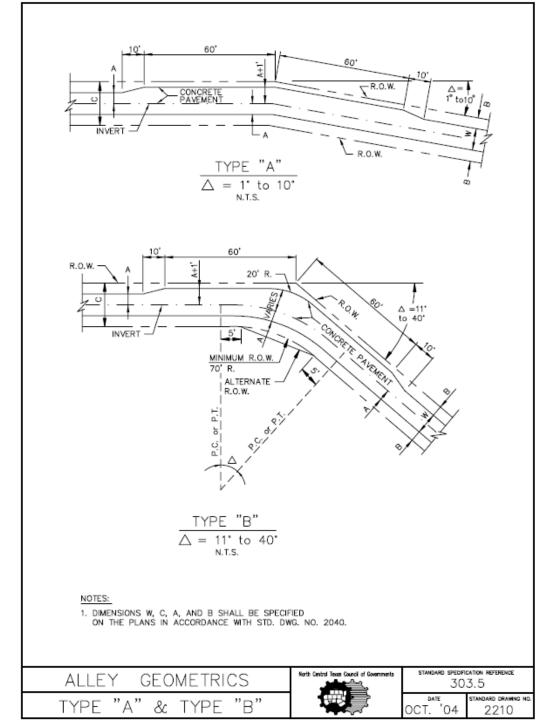
Commercial Driveway

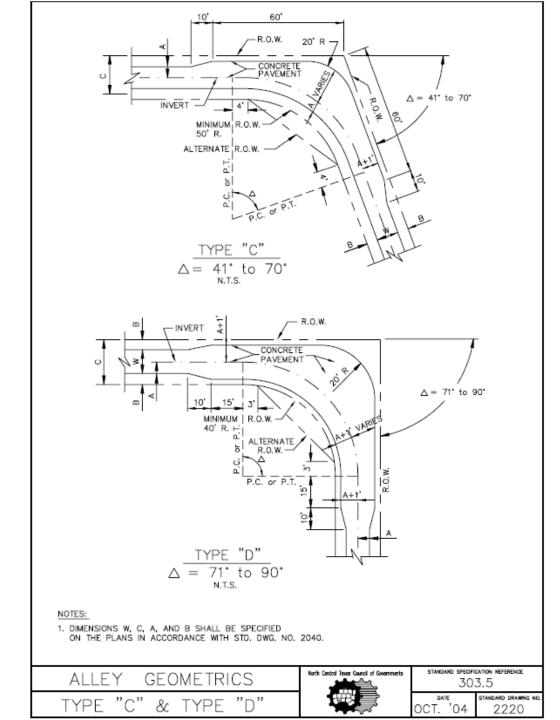


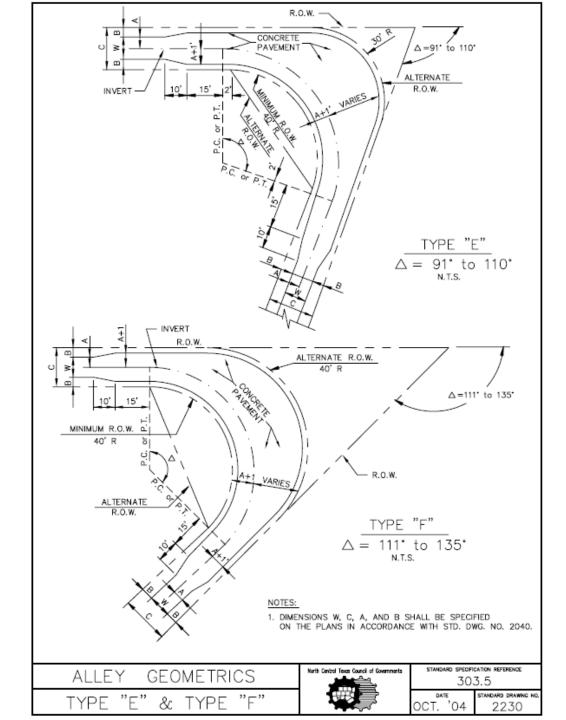


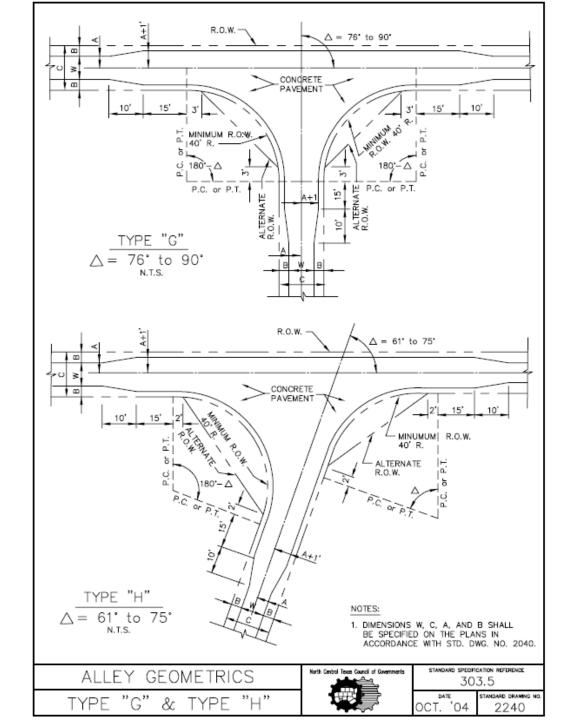
<u>GENERAL NOTES:</u>	
 REINFORCED CONCRETE PAVEMENT: ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT UNLESS OTHERWISE APPROVED BY THE OWNER. BL CURBS SHALL MEET THE SAME COMPRESSIVE STRENGTH AS SPECIFIED FOR THE PAVEMENT. CL BAR LAPS SHALL BE 30 DIAMETERS. DL REINFORCING BARS SHALL BE SUPPORTED BY CHAIRS OR OTHER DEVICES APPROVED BY THE OWNER. 	
THE DILLOF THE INDUACE MATERIAL IC OPERATED THAN 45	greater lime shall be used, if the PI is less than be used or as recommended by a geotech
B. WHERE THE INPLACE MATERIAL HAS A P.I. OF LESS THAN 15, THE SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6" AND RECOMPACTED.	
3. IF THE ROADWAY IS A DESIGNATED BIKE ROUTE OR BIKE USAGE IS ANTICIPATED, REFER TO NOTCOO'S REGIONAL BICYCLE AND PEDESTRIAN FACILITIES DESIGN MANUAL FOR DESIGN GUIDANCE.	
	2115
GENERAL NOTES MAR OCT. '04 -2190	2115

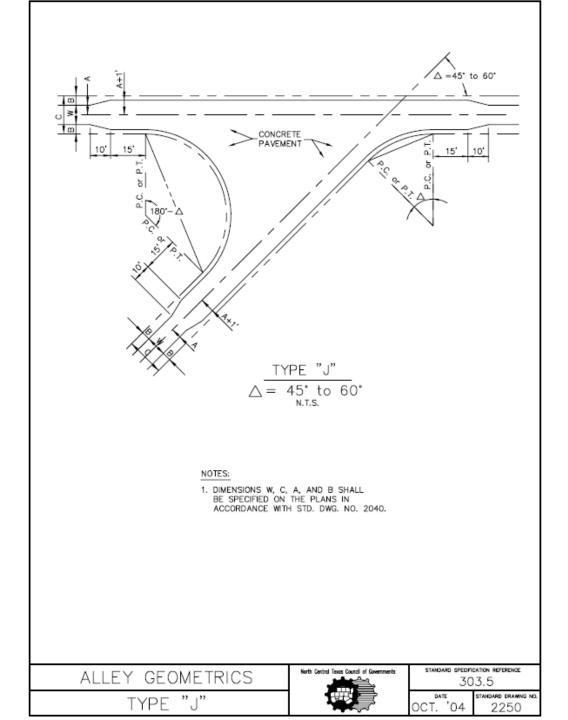


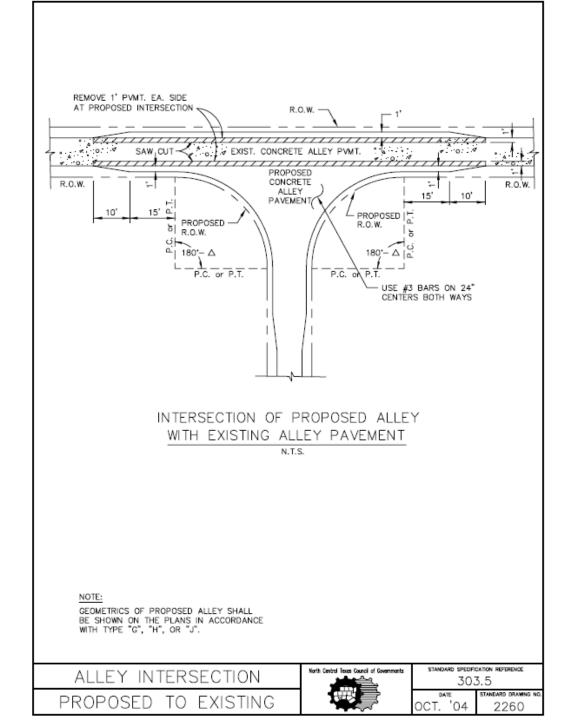


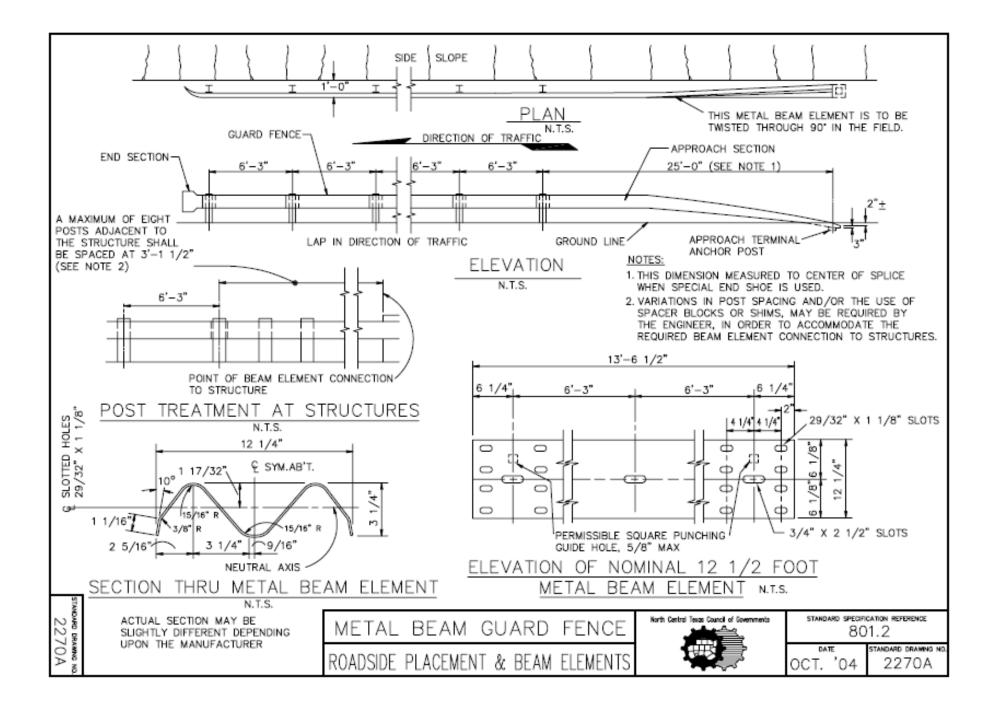


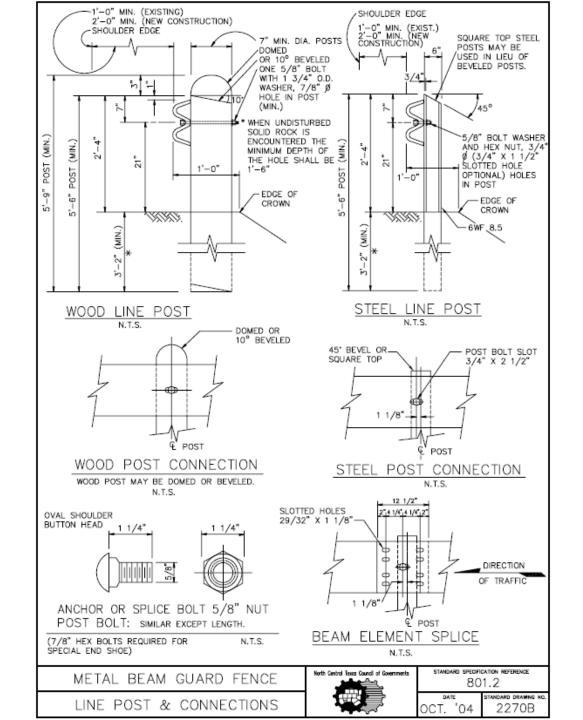


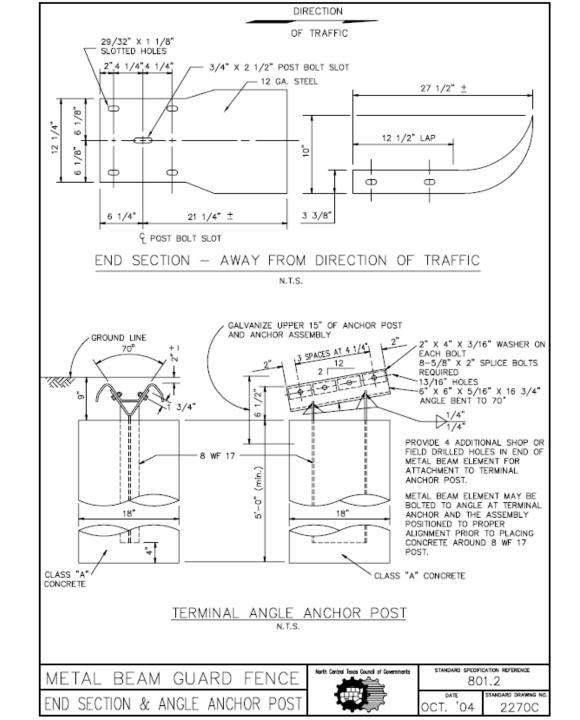


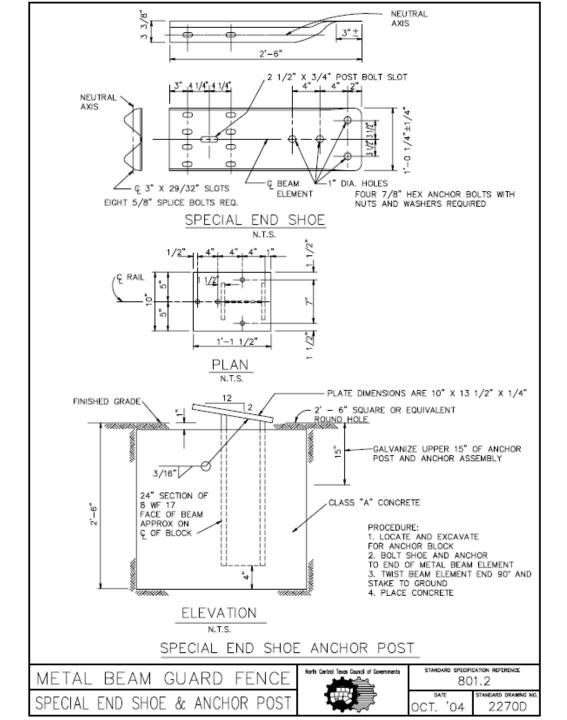










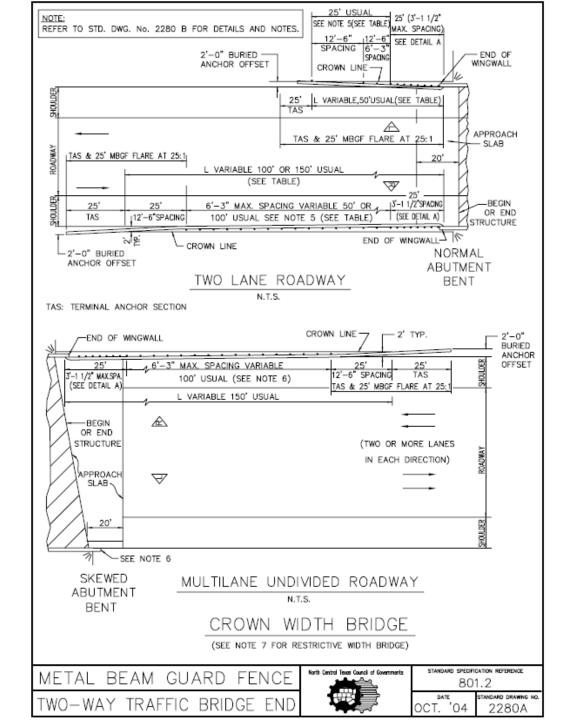


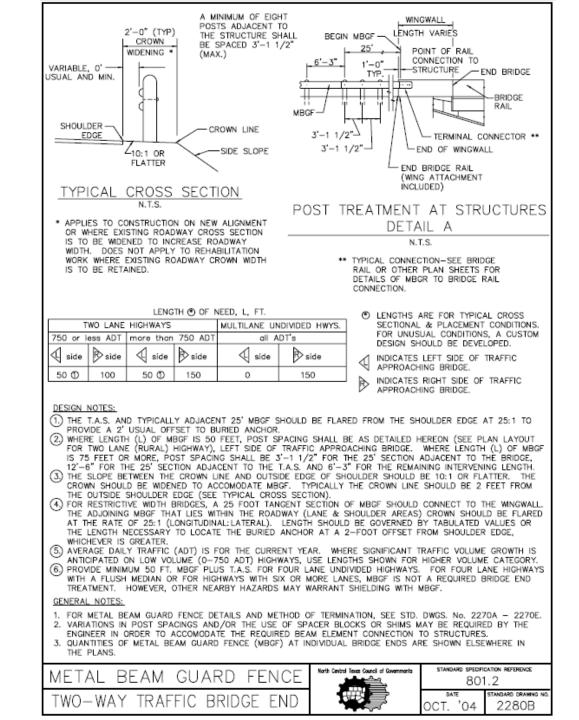
METAL BEAM GUARD FENCE

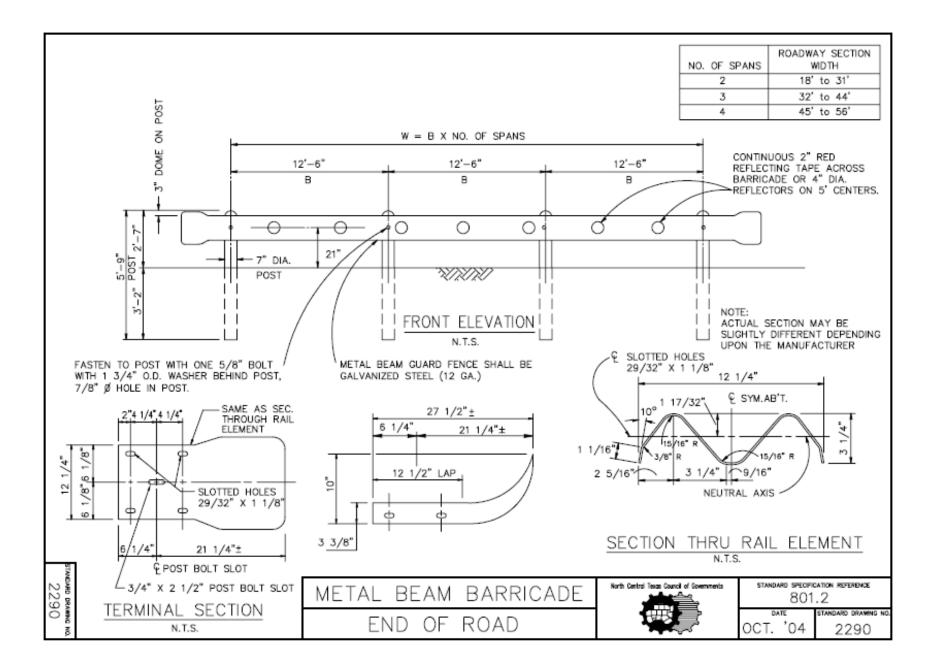
GENERAL NOTES

- 1. EXCEPT WHERE USED AT STRUCTURES THAT ARE NARROWER THAN CROWN WIDTH OR WHERE OTHERWISE INDICATED ON PLANS, THE FACE OF THE GUARD FENCE SHALL BE LOCATED A MINIMUM OF ONE FOOT FROM THE SHOULDER EDGE ON EXISTING ROADWAYS AND A MINIMUM OF TWO FEET FROM THE SHOULDER EDGE ON NEW CONSTRUCTION. THE EXACT POSITION SHALL BE AS SHOWN ELSEWHERE ON THE PLANS OR AS DIRECTED BY THE ENGINEER. BEAM ELEMENTS SHALL BE TRANSITIONED TO A SMOOTH CONNECTION WITH OTHER STRUCTURES OR BEAM ELEMENTS AS SHOWN ELSEWHERE ON PLANS.
- 2. AT THE OPTION OF THE CONTRACTOR THE METAL BEAM ELEMENTS FOR THE GUARD FENCE MAY BE FURNISHED IN EITHER 12 1/2 OR 25 FOOT NOMINAL LENGTHS. BEAM ELEMENTS SHALL BE FURNISHED WITH POST BOLT SLOTS FOR 5/8" DIAMETER BOLT CONNECTIONS TO POSTS.
- BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND NO MORE THAN 3/4" BEYOND IT.
- THE TOP OF THE TERMINAL ANCHOR POST ASSEMBLY AND ALL STEEL FITTINGS THEREON SHALL BE GALVANIZED AS SHOWN.
- WHERE ROCK IS ENCOUNTERED OR WHERE SHOWN ON THE PLANS, THE DIAMETER OF THE HOLES AND THE MATERIAL FOR BACKFILLING SHALL BE AS DIRECTED BY THE ENGINEER. TIMBER POSTS SHALL NOT BE SET IN CONCRETE.
- THE TERMINAL ANCHOR POST SHALL BE SET IN CLASS "A" CONCRETE. CONCRETE SHALL BE SUBSIDIARY TO THE BID ITEM "METAL BEAM GUARD FENCE."
- TIMBER POSTS MAY BE BEVELED AT APPROXIMATELY 10 DEGREES ON THE TOP OR BOTH ENDS WITH HIGH SIDE OF TOP OF POST PLACED TOWARD THE ROADWAY OR THEY MAY BE DOMED.
- AN ANCHOR OTHER THAN TO A TERMINAL ANCHOR POST SHALL CONSIST OF A CONNECTION SIMILAR TO THE BEAM ELEMENT SPLICE OR SIMILAR TO THE SPECIAL END SHOE.
- SPECIAL FABRICATION WILL BE REQUIRED IN INSTALLATIONS HAVING A CURVATURE OF LESS THAN 150' RADIUS.
- 10. WOOD POSTS MUST BE TREATED IN MANNER APPROVED BY THE ENGINEER.
- 11. THE SPECIAL END SHOE ANCHOR MAY BE USED WITH THE 18" X 5'-0" CONCRETE FOOTING OR THE ANGLE ANCHOR MAY BE USED WITH THE 2'-6" SQUARE OR EQUIVALENT CONCRETE FOOTING.
- 12. ALL METAL ELEMENTS WILL BE 12 GAUGE STEEL UNLESS STATED OTHERWISE ON PLANS.

METAL	BEAM	GUARD	FENCE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 801.2	
GENERAL NOTES					OCT. '04	standard drawng no. 2270E







Next Steps

Determine action items for Subcommittee Members and NCTCOG staff

<u>Next Standard Drawings Meetings</u> May 11, 2020 10am-11:30am

UberConference