

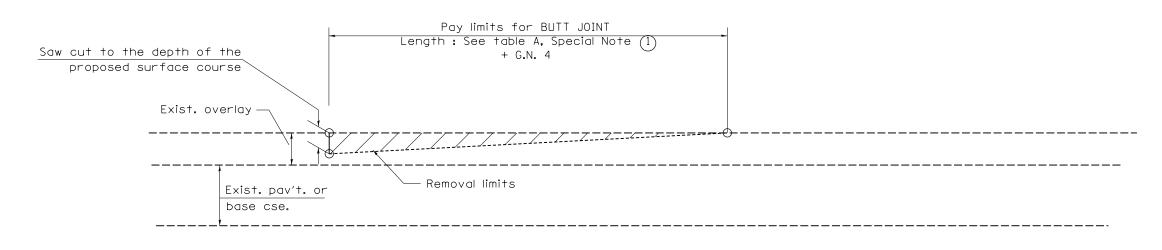
CASE 1: WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A TAPER RATES

SPECIAL NOTE	ELEMENT	MAINLINE INTERSTATES &	ALL
NUMBER		4-LANE EXPRESSWAYS	OTHERS
	BUTT JOINT	1:480	1:240
	TAPER RATE		
2	TEMPORARY RAMP	1:80	1:40
	TAPER RATE		

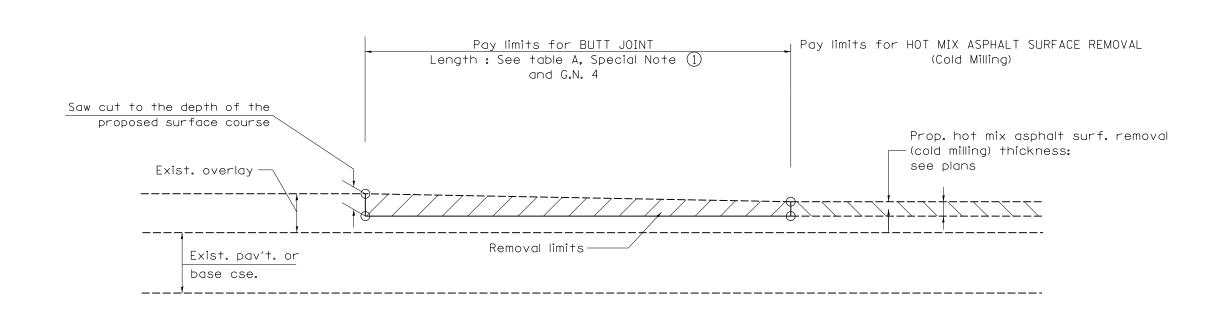
GENERAL NOTES

- 1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- 2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- 3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
- 4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
- 5. Temporary ramps are paid for separately and not included in the cost of the butt joints.

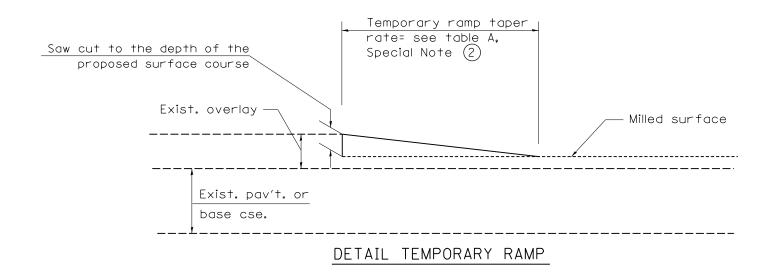


CASE 2: NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

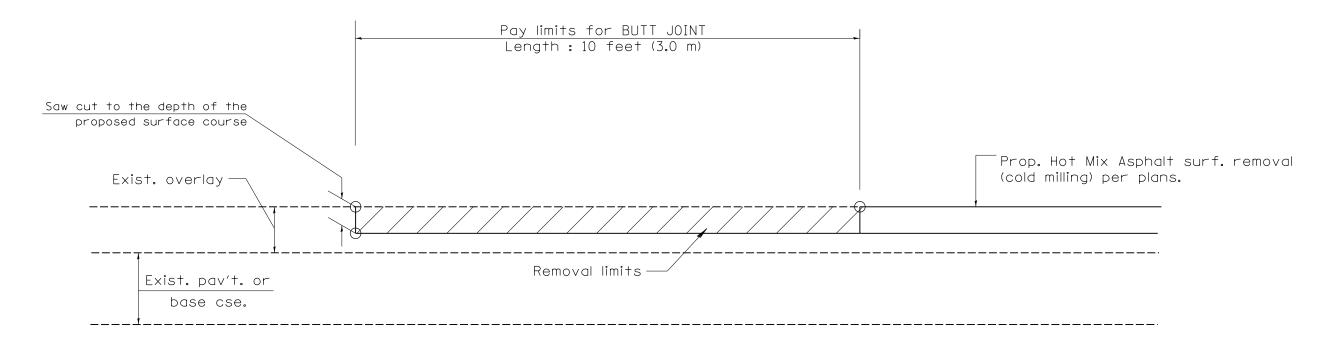
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CASE 3: HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING) TIE-IN TO EXISTING BITUMINOUS TAPER



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지원	Default	PLOT DATE = 2/3/2023	DATE - 2/3/2023	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	AD PROJECT		



CASE 4: SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TIE-IN TO EXISTING BITUMINOUS TAPER

All dimensions are in inches (millimeters) unless otherwise noted.

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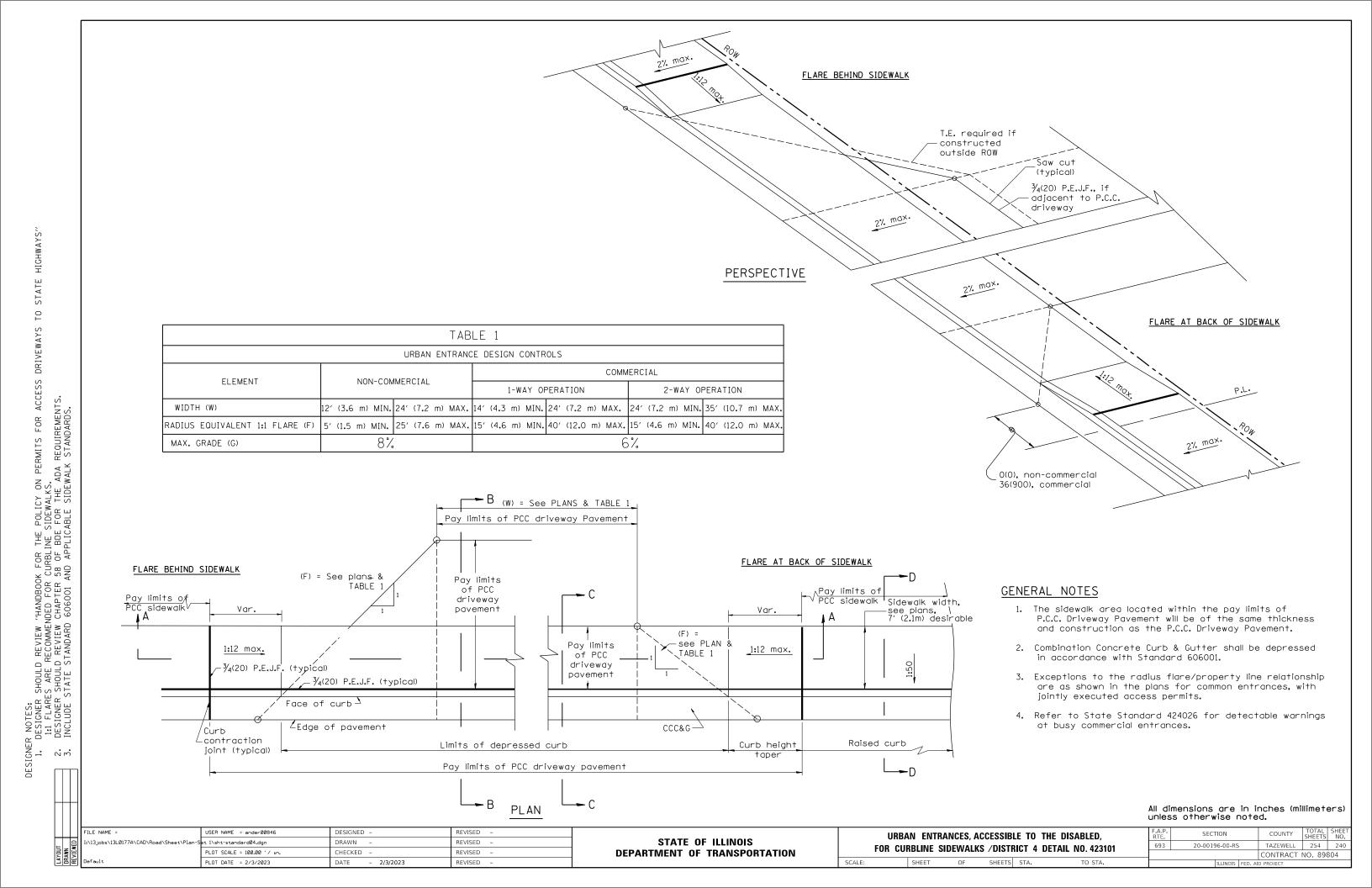
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

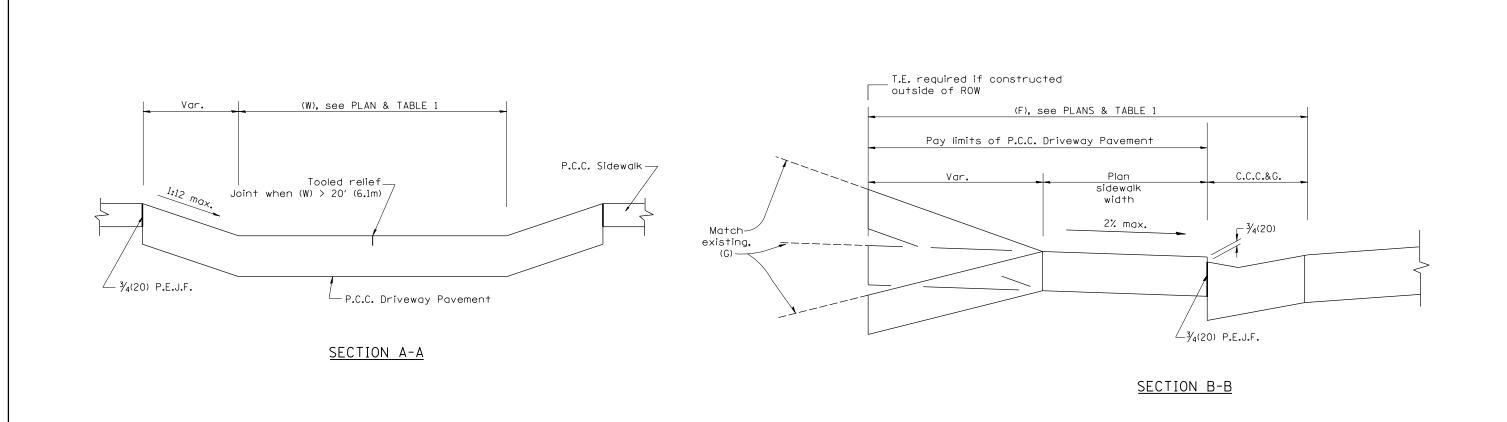
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DISTRICT 4 DETAIL NO. 406101						693	20-0019
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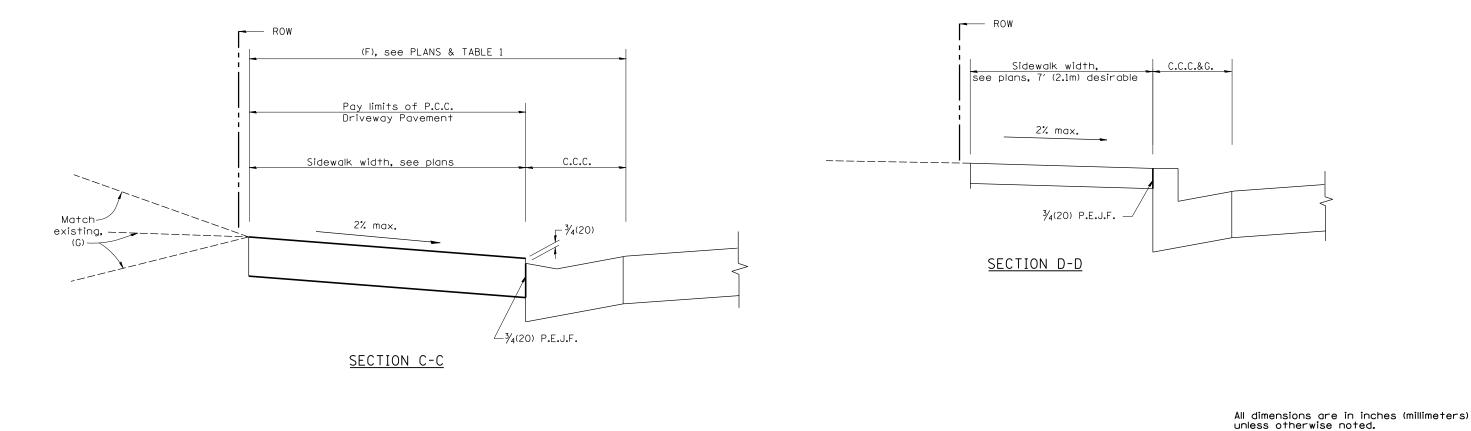
20-00196-00-RS TAZEWELL 254 239

CONTRACT NO. 89804

| ILLINOIS | FED. AID PROJECT







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REVISED - SECTION COUNTY SHEETS NO. 89804

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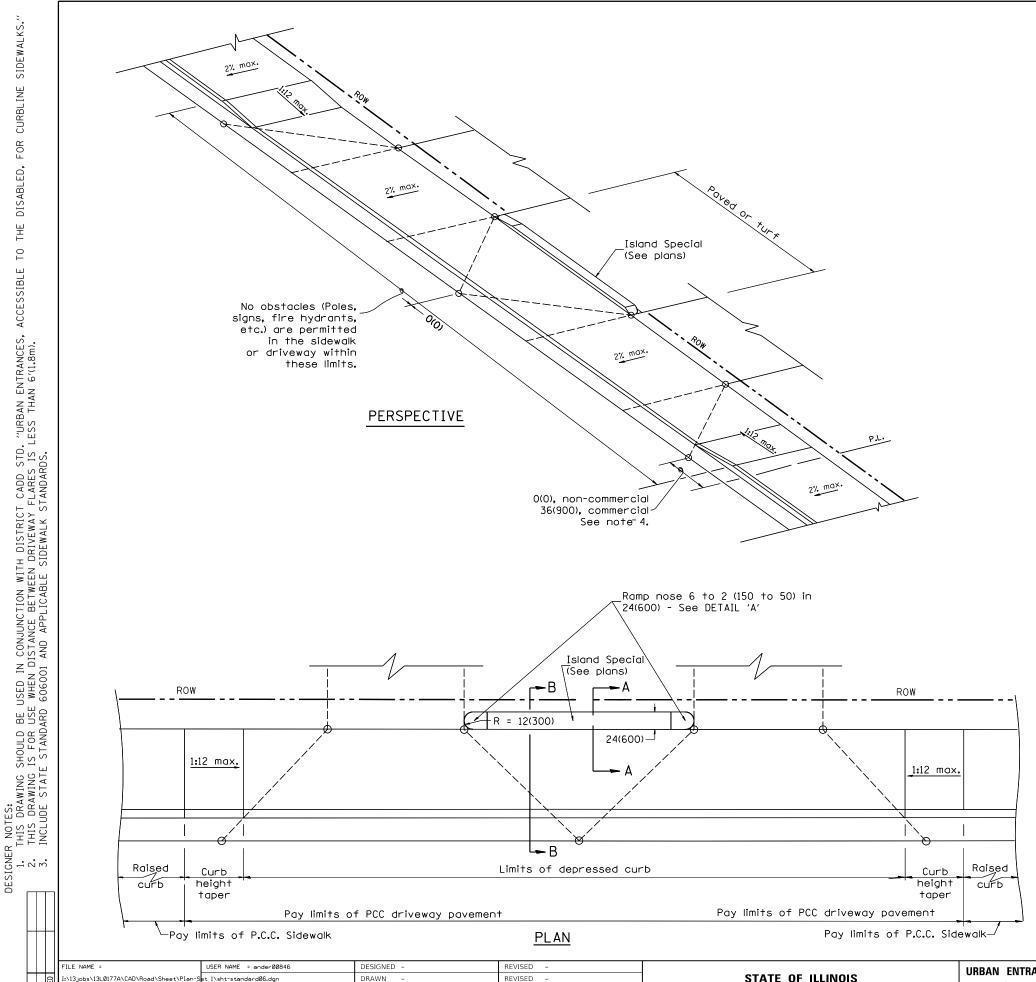
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DATE - 2/3/2023



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SIDEWALKS."

CURBLINE

FOR

DISABLED,

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10

PLOT SCALE = 100.00 '/ in.

PLOT DATE = 2/3/2023

HECKED

DATE

- 2/3/2023

GENERAL NOTES

- 1. The sidewalk area located within the pay limits of P.C.C. Driveway Pavement will be of the same thickness and construction as the P.C.C. Driveway Pavement.
- 2. Combination Concrete Curb & Gutter shall be depressed in accordance with Standard 606001.
- 3. Exceptions to the radius flare/property line relationship are as shown in the plans for common entrances, with jointly executed access permits.
- 4. Refer to State Standard 424026 for detectable warnings at busy commercial entrances.

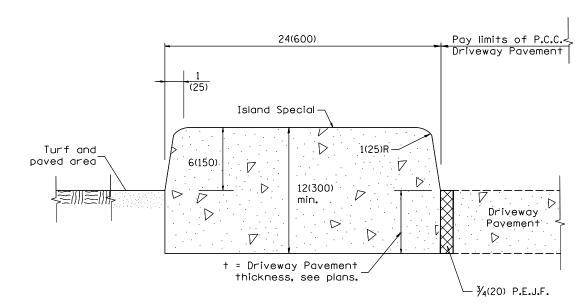
All dimensions are in inches (millimeters) unless otherwise noted.

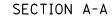
CADD STD. 423121-D4

COUNTY

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** URBAN ENTRANCES, SPECIAL DESIGN FOR CLOSELY SPACED ENTRANCES (WITHOUT PAVEMENT EDGE CURB BETWEEN ENTRANCES)

20-00196-00-RS TAZEWELL 254 242 CONTRACT NO. 89804





SECTION B-B

Depressed C.C.C.&G.

₋ ¾(20)

Sidewalk width, see plans.
Pay limits of P.C.C. Driveway Pavement

P.C.C. Driveway Pavement_ thickness - See plans

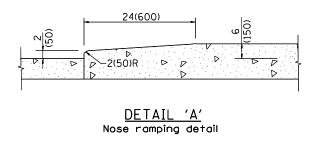
2% ma<u>x</u>.

Island Special

(See plans)

GENERAL NOTES

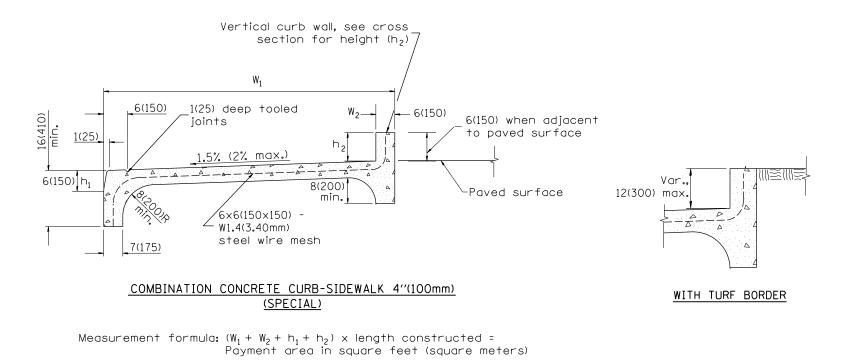
 All provisions in Section 606 of the Standard Specifications shall apply unless otherwise shown.

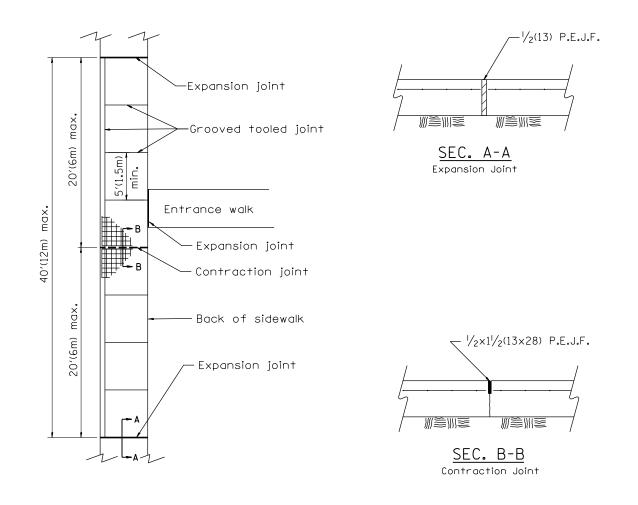


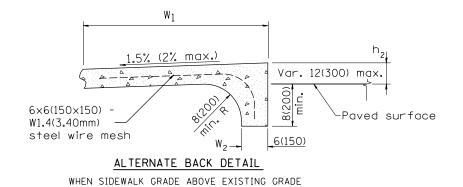
ISLAND SPECIAL

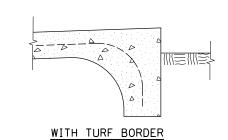
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NE NE		PLOT SCALE = 100.00 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	(WITHOUT PAVE	IVIENI EDG	E CUND DEIVVE	EN ENTRANCES)			CONTRACT NO. 89	9804
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GENERAL NOTES:

1. All provisions in Section 424 of the Standard Specifications shall apply, unless otherwise shown.

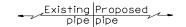
All dimensions are in inches (millimeters) unless otherwise noted.

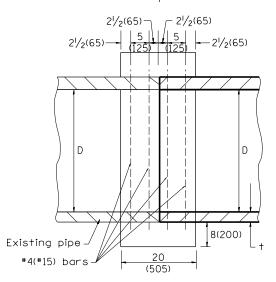
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMBINATION CONCRETE CURB-SIDEWALK 4" (100mm), (SPECIAL)

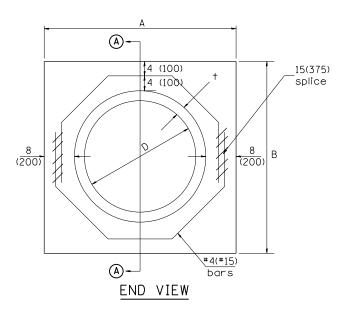
DISTRICT 4 DETAIL NO. 424106

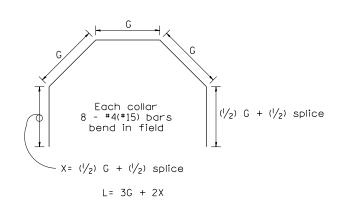
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SECTION A - A





						E	Each Collar		
								ment Bars	
	D	+	А	В	CL. SI CONC.	G	X	L	Weight
	in (mm)	in (mm)	f† (m)	f+ (m)	cu. yd. (m ³)	in (mm)	in (mm)	ft (m)	lb (kg)
	12 (300)	2.00 (51)	2.67 (0.814)	2.67 (0.814)	0.4 (0.270)	9 ¹⁵ / ₁₆ (253)	12 1/16 (317)	4.57 (1.393)	24 (11)
	15 (375)	2.25 (57)	2.96 (0.902)	2.96 (0.902)	0.4 (0.315)	11 3/8 (290)	13 1/6 (335)	5.05 (1.541)	27 (12)
	18 (450)	2.50 (64)	3.25 (0.991)	3. 25 (0. 991)	0.5 (0.362)	$12\frac{13}{16}$ (327)	137/8 (354)	5.54 (1.689)	30 (14)
	21 (525)	2.75 (70)	3.54 (1.079)	3.54 (1.079)	0.5 (0.411)	14 1/4 (364)	14 % (372)	6.02 (1.836)	32 (15)
	24 (600)	3.00 (76)	3.83 (1.167)	3.84 (1.167)	0.6 (0.460)	15"/16 (401)	15 1/6 (391)	6.51 (1.984)	35 (16)
	27 (675)	3. 25 (83)	4.13 (1.259)	4.13 (1.259)	0.7 (0.516)	171/4 (438)	16 1/16 (409)	6.99 (2.131)	37 (17)
	30 (750)	3.50 (89)	4.42 (1.347)	4.42 (1.347)	0.7 (0.570)	18 ¹¹ / ₁₆ (475)	16 3/4 (428)	7.48 (2.279)	40 (18)
	33 (825)	3.75 (95)	4.71 (1.436)	4.71 (1.436)	0.8 (0.624)	20 1/8 (512)	171/2 (446)	7. 96 (2. 426)	43 (19)
	36 (900)	4.00 (102)	5.00 (1.524)	5.00 (1.524)	0.9 (0.682)	21 1/16 (549)	18 3/16 (465)	8.44 (2.574)	45 (20)
4	2 (1050)	4.50 (114)	5.58 (1.701)	5.58 (1.701)	1.0 (.800)	24 1/16 (622)	19 3/4 (501)	9.41 (2.869)	50 (23)
4	8 (1200)	5.00 (127)	6.17 (1.881)	6.17 (1.881)	1.2 (0.930)	27 1/6 (696)	21 3/6 (538)	10.38(3.164)	55 (25)

GENERAL NOTES

- 1. THE COLLAR SHALL BE CONSTRUCTED ENTIRELY OF CLASS SI CONCRETE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.
- 2. This work shall be paid for by the cubic yard (cubic meter) for CONCRETE COLLAR and by the pound (kg) for REINFORCEMET BARS.

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE;
BUREAU OF PROJECT IMPLEMENTATION;
DOCUMENTATION SECTION

QUANTITIES

CALC. BY: R.J.D.
CHECKED BY: R.D.H.

∐lf	TILE NAME =	USER NAME = ander00846	DESIGNED -	REVISED -		PIPE CU	ILVERT EXT	ENSION	COLLAR	(WITHOUT	END SECTION)	F.A.P.	SECTION	COUNTY	TOTAL S	HEET NO.
	:\13jobs\13L0177A\CAD\Road\Sheet\Plan-S	et 1\sht-standard09.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS					NO. 542016		693	20-00196-00-RS	TAZEWELL	254	245
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Pay limits of INLETS, TYPE G-1 L=13'-1/2" (4.0m) Concrete — 2 - #4 (#15) bars - 12′ (3.65m) long apron (750) Back of curb nbination rete cur d gutter Grate type-— 2 - #4 (#15) bars-12′ (3.65m) long see plans Expansion Joint (STD# 606001) Expansion Joint (STD# 606001) Edge of pavement Longitudinal Joint Ti/e Bars (STD# 606001) Control point for inlet elevation PLAN Top of curb

Edge of pavement

Gutter flag

Gutter flowline

5' (1.52m) Frame and grate (See General Notes) $36\frac{1}{2}$ (927) ↓ See plans for elevations Grate type -see plans - 36 (915) 6 (150) **ELEVATION** FRONT

REVISED -

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of edge of pavement at the intersection of ¢ of inlet frame. Frame and grate (See General Notes) Grate type-see plans (300) 12(300) see plans min. 14 (356) min. for bars 7 7 (178) opening Pavement 8 (200) thickness ¾ (20) Mortar #4 (#15) bars 30 (750) ° (150) (150) sand cushion **ELEVATION** SIDE

Set frame level and at elevation

GENERAL NOTES

- 1. Inlet construction shall be in accordance with Section 602 of the Standard Specifications.
- Combination Concrete Curb & Gutter shall be constructed in accordance with Section 606 of the Standard Specifications.
- 3. See District CADD Standard 604001-D4 for frame and grates.

All dimensions are in inches (millimeters) unless otherwise noted.

TAZEWELL 254 246

CONTRACT NO. 89804

LAYOUT DRAWN REVIEWED

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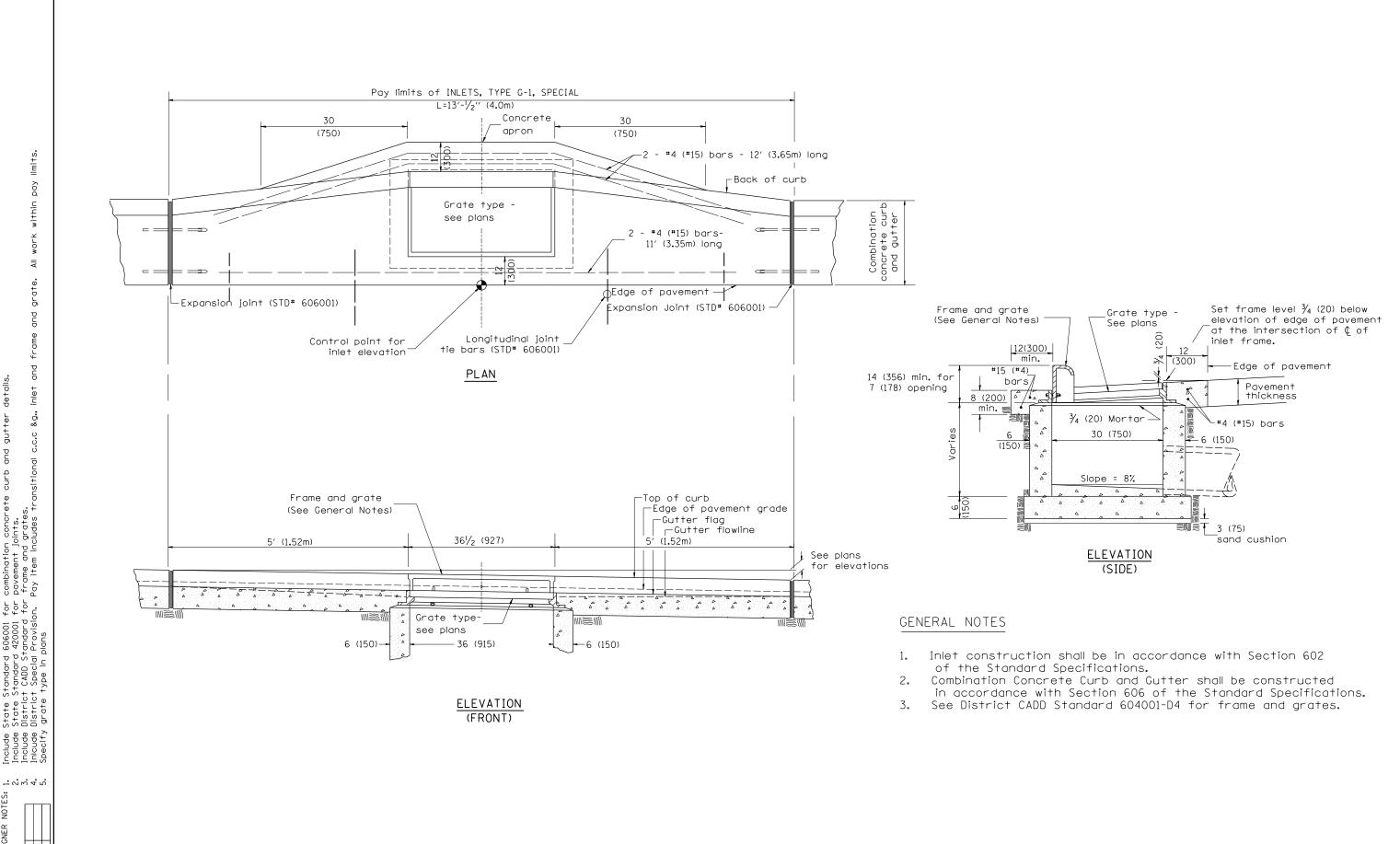
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DATE - 2/3/2023

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All dimensions are in inches (millimeters) unless otherwise noted.

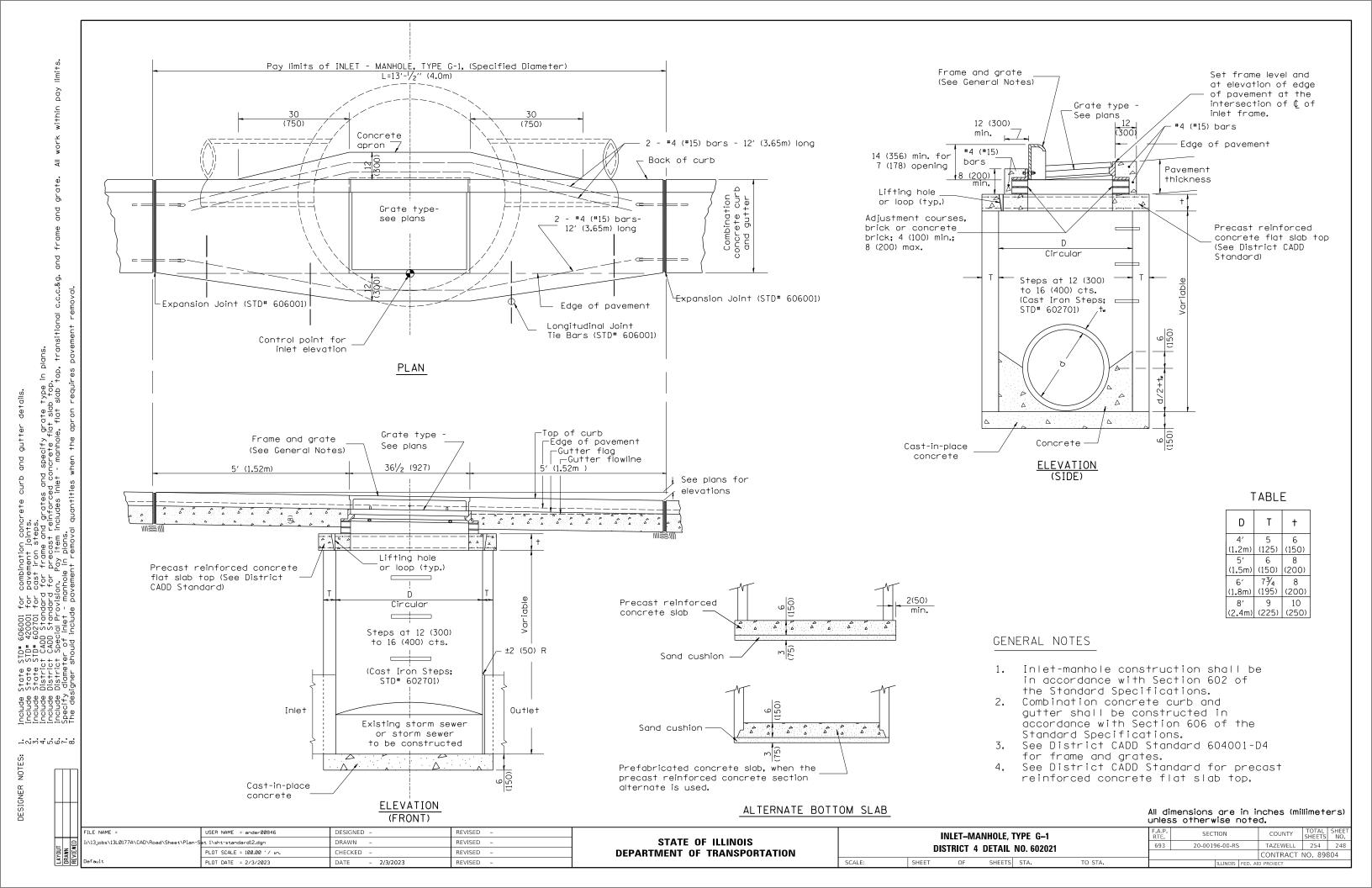
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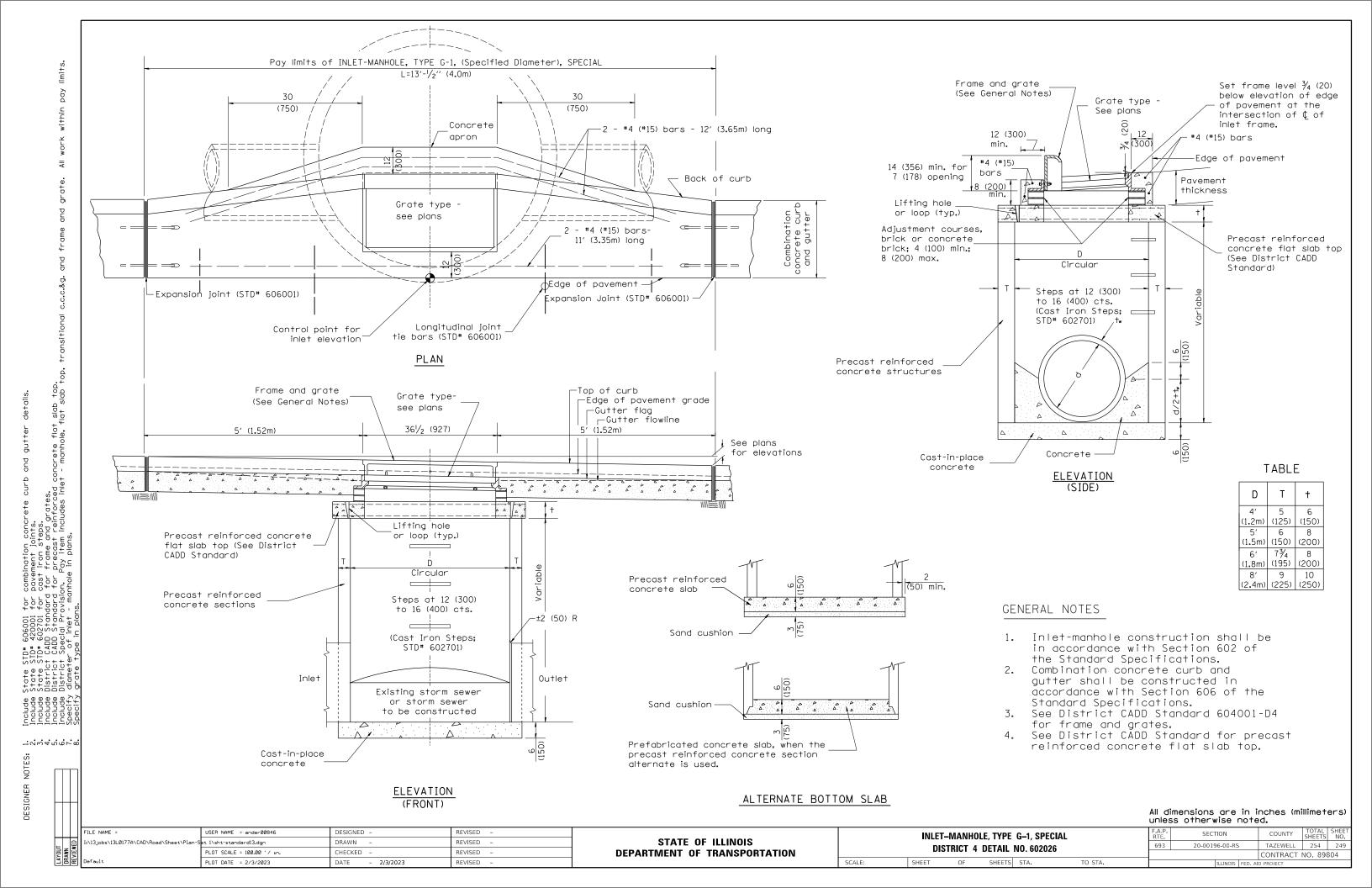
NOTES:

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

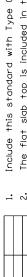
INLETS, TYPE G-1, SPECIAL 20-00196-00-RS DISTRICT 4 DETAIL NO. 602006 OF SHEETS STA. TO STA.

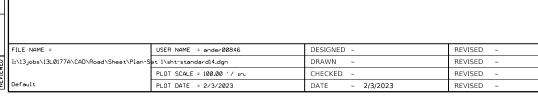
TAZEWELL 254 247 CONTRACT NO. 89804











Welded wire fabric top & bottom See table for "As" for each direction

— #4 (#15) bar - 3′-6″ (1.07m) long

<u>PLAN</u>

 $D_o = D+2T (min.)$

└ 1" (25) cl.

(Riser)

SECTION A-A

__ 1" (25) cl.

Lifting hole or loop (typ.)

‡4 (#15) bar - 36 (900) long #4 (#15) bar "C"

#4 (#15) bar - 36 (900) long

See table for length & radius

Use mortar

or sealer



ALTERNATE JOINT CONFIGURATIONS

Do

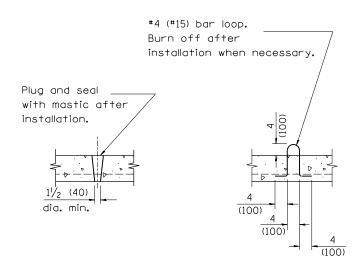
−Bar C

(Riser)



unless otherwise noted. 20-00196-00-RS TAZEWELL 254 250 CONTRACT NO. 89804

All dimensions are in inches (millimeters)



LIFTING LOOP LIFTING HOLE OR TYPICAL

(3 required per slab)

Use mortar

or sealer

TABLE

D	Т	D _o	+	Reinforcement "As" W.W.F.	Bar size	No. 15 <u>Bar</u>	_
		(11111111111111111111111111111111111111		each direction		Length	Radius
4′	5	4'-10''	6	0.70 sq. inch/lin. ft.	No. 15	1.35m	660
(1.2m)	(125)	(1.5m)	(150)	(1480mm ² /m)	(No. 5)	(4'-6'')	(26)
5′	6	6'-0''	8	0.70 sq. inch/lin. ft.	No. 15	1 . 5m	810
(1.5m)	(150)	(1.8m)	(200)	(1480mm ² /m)	(No. 5)	(5'-0'')	(32)
6′	73/4	7'-31/2''	8	0.88 sq. inch/lin. ft.	No. 20	1.8m	965
(1.8m)	(195)	(2.2m)	(200)	(1860mm ² /m)	(No. 6)	(6′-0′′)	(38)
8′	9	9'-6''	10	0.88 sq. inch/lin. ft.	No. 20	2.3m	1.27m
(2.4m)	(225)	(2.9m)	(250)	(1860mm ² /m)	(No. 6)	(7'-6'')	(4'-2'')

Radius BAR "C"

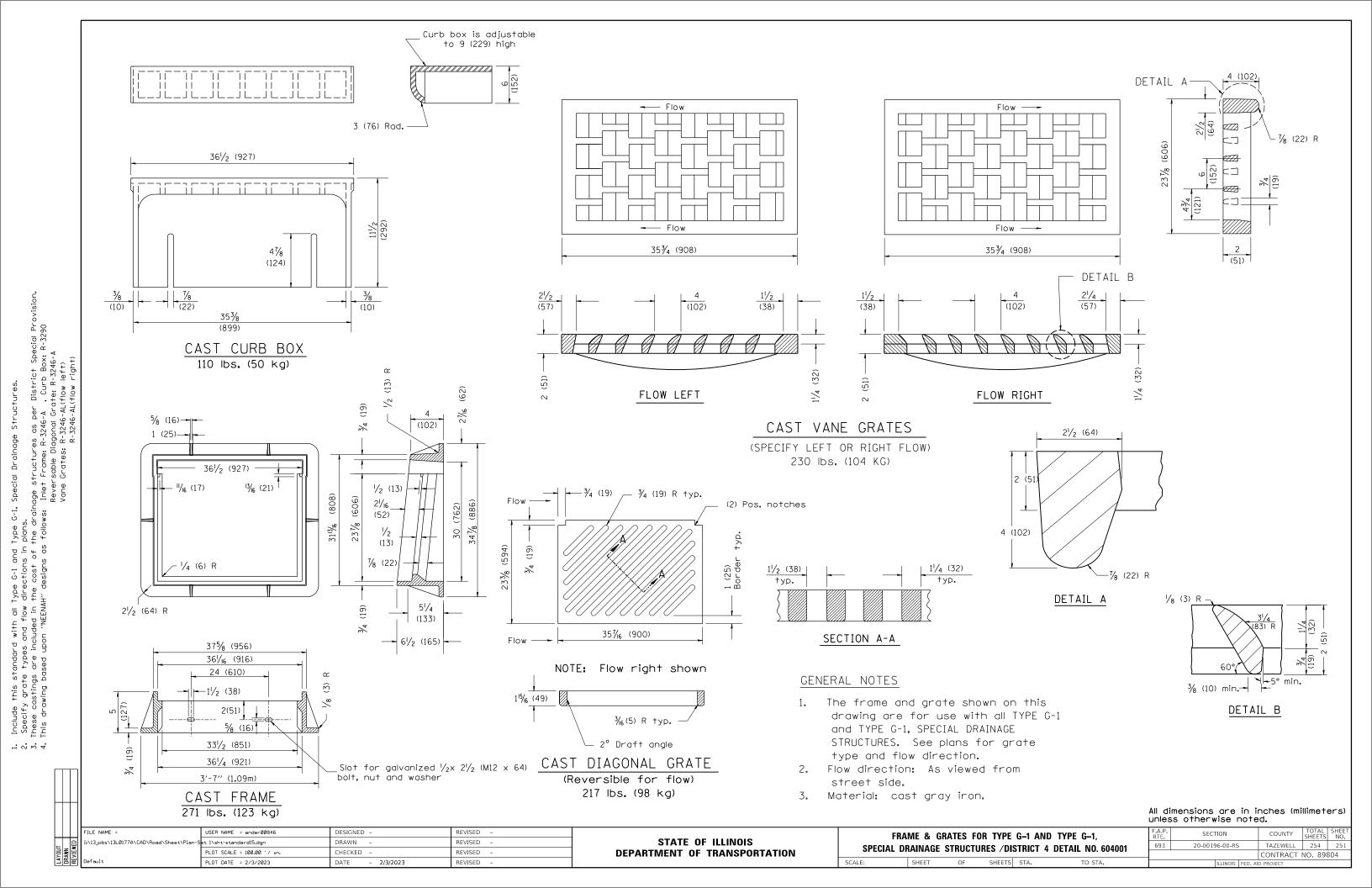
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Bar C

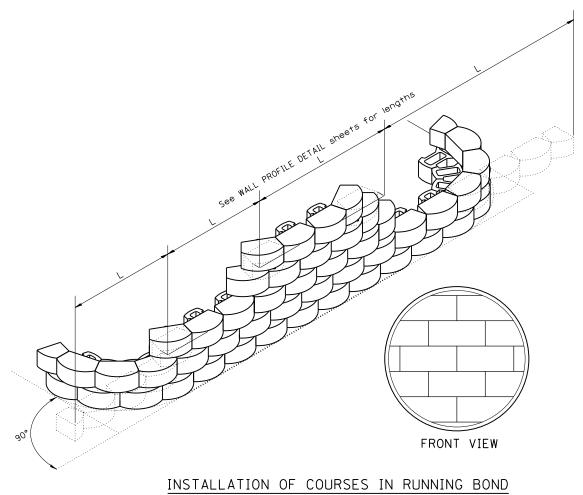
(Riser)

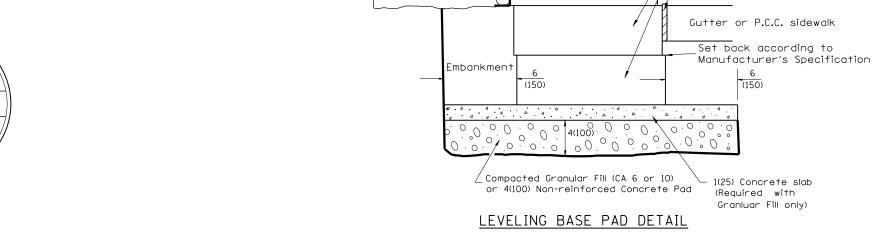
GENERAL NOTES

- 1. The precast reinforced concrete flat slab top shall be used with INLET-MANHOLE, TYPE G-1 and INLET-MANHOLE, TYPE G-1, SPECIAL.
- 2. Joint configuration and dimensions of flat slab top shall match and fit the riser joint detail.
- 3. Lifting devices shall be approved by the Engineer.









4(100) Pipe Underdrain

(See Note No. 2)

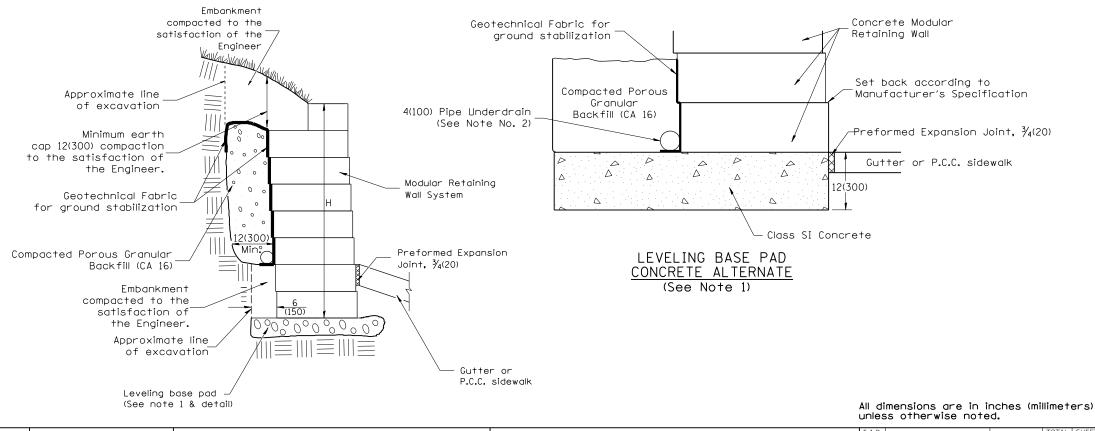
Compacted Porous

Granular

Backfill (CA 16)

NOTES:

- 1. At the Contractor's option the portion of the stone wall below top of sidewalk elevation may be constructed with class SI concrete. The width shall match the width of the modular block plus the 12(300) maximum trench.
- 2. 4(100) Pipe Underdrains shall outlet into inlets or storm sewer.
- 3. Pipe drains and pipe underdrains shall meet the requirements of the applicable portions of section 601 of the Standard Specifications.
- 4. Preformed expansion joint filler shall be placed between the gutter or sidewalk and the wall.
- 5. The geotechnical fabric shall meet the requirements of the applicable portions of Sections 210 and 1080 of the Standard Specifications.



DESIGNED -REVISED -USER NAME = ander@0846 :\13jobs\13LØ177A\CAD\Road\Sheet\Plan Set 1\sht-standard16.dqn DRAWN REVISED -HECKED REVISED PLOT DATE = 2/3/2023 - 2/3/2023 REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** MODULAR RETAINING WALL SYSTEM DETAIL 693 DISTRICT 4 DETAIL NO. 660101 OF SHEETS STA. TO STA.

SECTION COUNTY 20-00196-00-RS TAZEWELL 254 252 CONTRACT NO. 89804

Concrete Modular

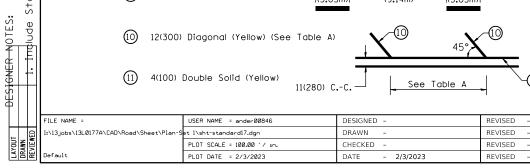
Preformed Expansion Joint, $\frac{3}{4}$ (20)

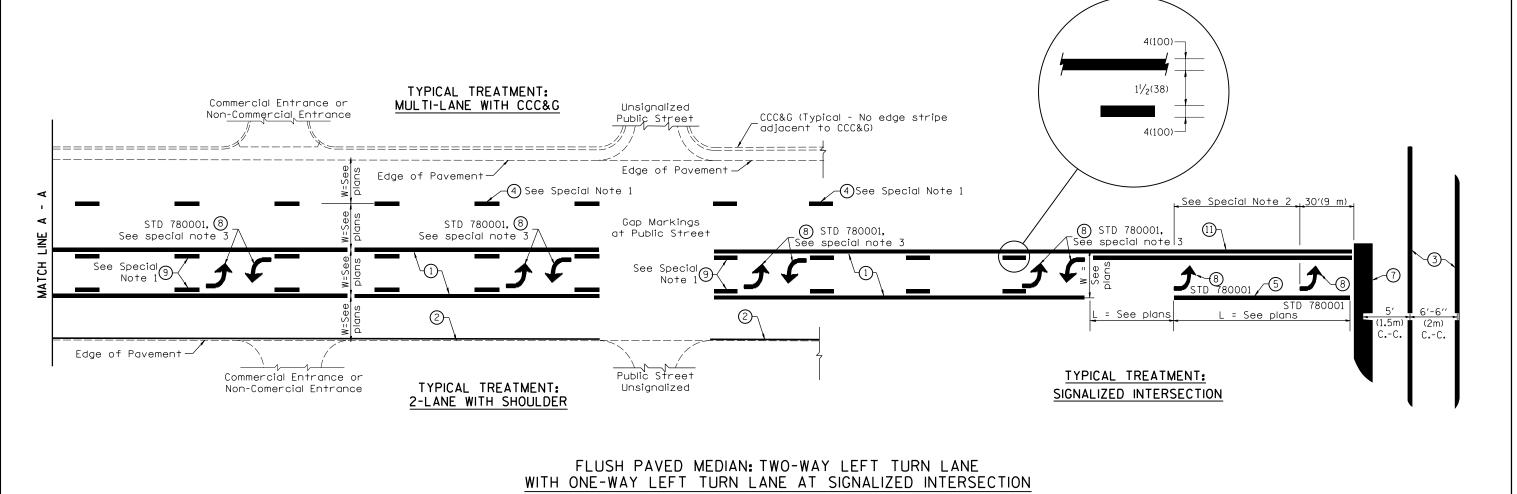
Retaining Wall

Geotechnical Fabric

-for ground

stabilization





TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- (1) 4(100) Solid (Yellow)
- 4(100) Solid (White)
- 3) 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White) 2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- 4 6(150) Skip-Dash (White) (See Special Note 1)
- 8(200) Solid (White)
- 12(300) Diagonal (White) (Item 🜀 is shown on Std. 780001
- 24(600) Stop Bar (White)
- Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- 4(100) Skip-Dash (Yellow) (See Special Note 1)

SPECIAL NOTES

- 1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
- 2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3)or more are required.
- 3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required. The maximum spacing between arrow pairs
 - Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

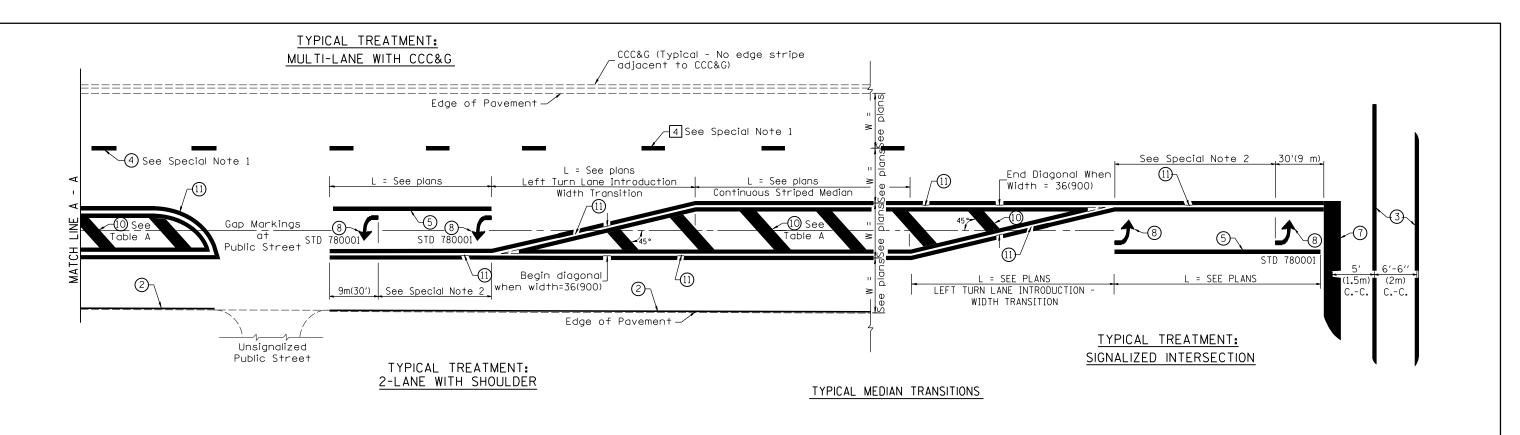
GENERAL NOTES

- Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
- 2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
- 3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
- 4. Areas are grooved 1" beyond each edge for the following symbols: Through Arrow= 14.8 sq. ft. Large Left or Right Arrow= 21.9 sq. ft. 2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft. Wrong Way Arrow= 29.5 sq. ft. Railroad Crossing Symbol= 69.8 sq. ft. (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

is 200′ (61 m).

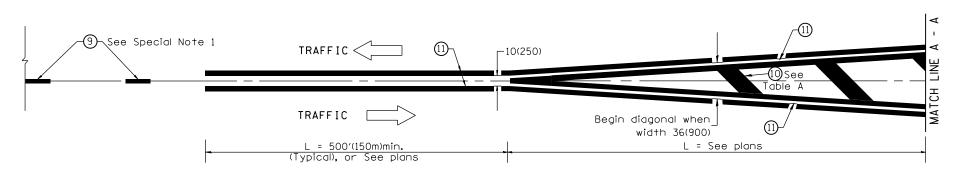
T١	PICAL PAV	EMENT	MARKINGS		F.A.P. RTE	SECT	ΠON		COUNTY	TOTAL SHEETS	SHEE NO.
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FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15′ (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30′ (9m)



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

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