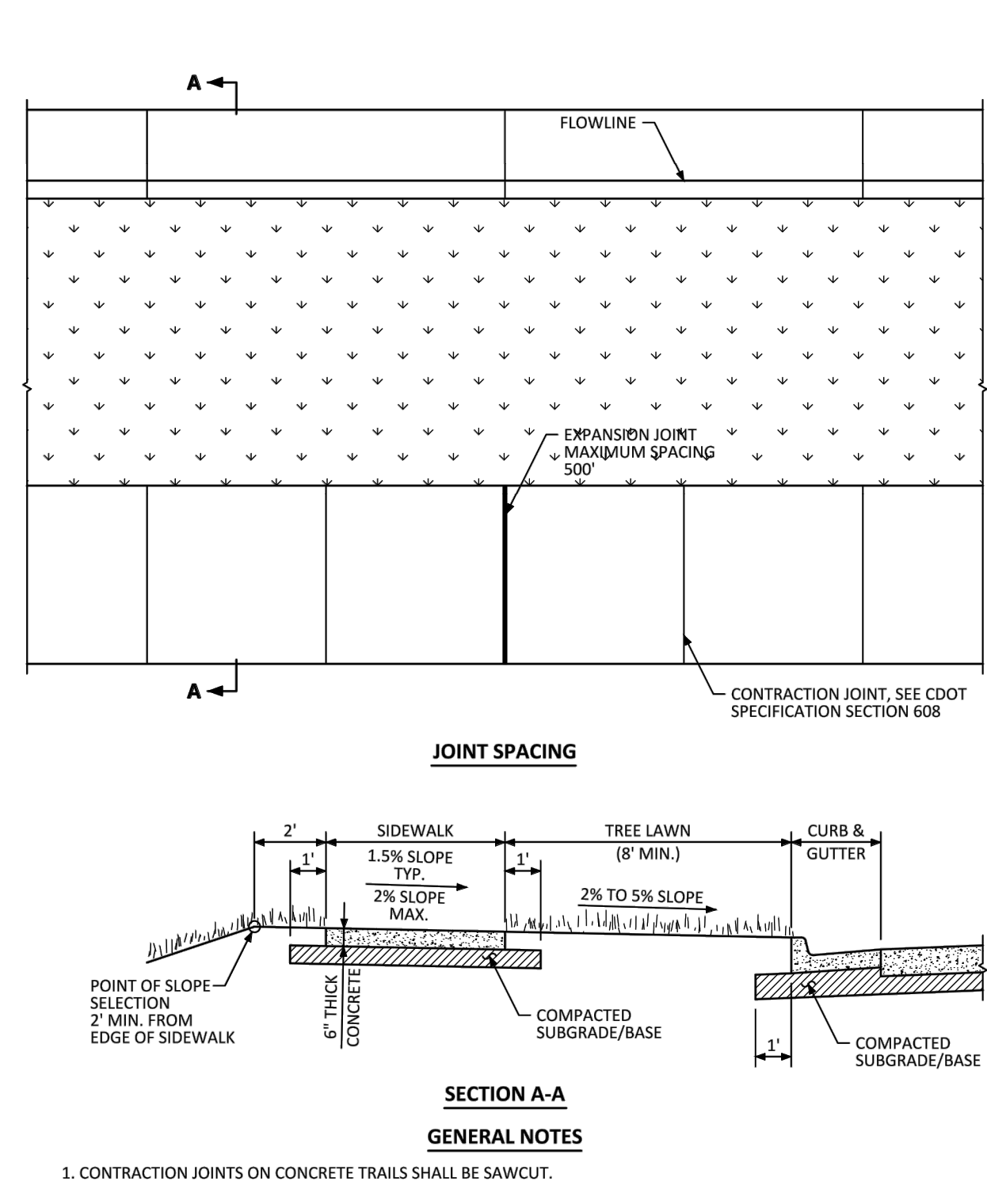


* GUTTER CROSS SLOPE SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB. DIRECTION OF SLOPE SHALL MATCH STREET CROSS SLOPE.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO CURB, GUTTER, AND SIDEWALK SECTIONS STANDARD DETAIL DATE DECEMBER 2016 DETAIL 3 1 OF 1



JOINT SPACING

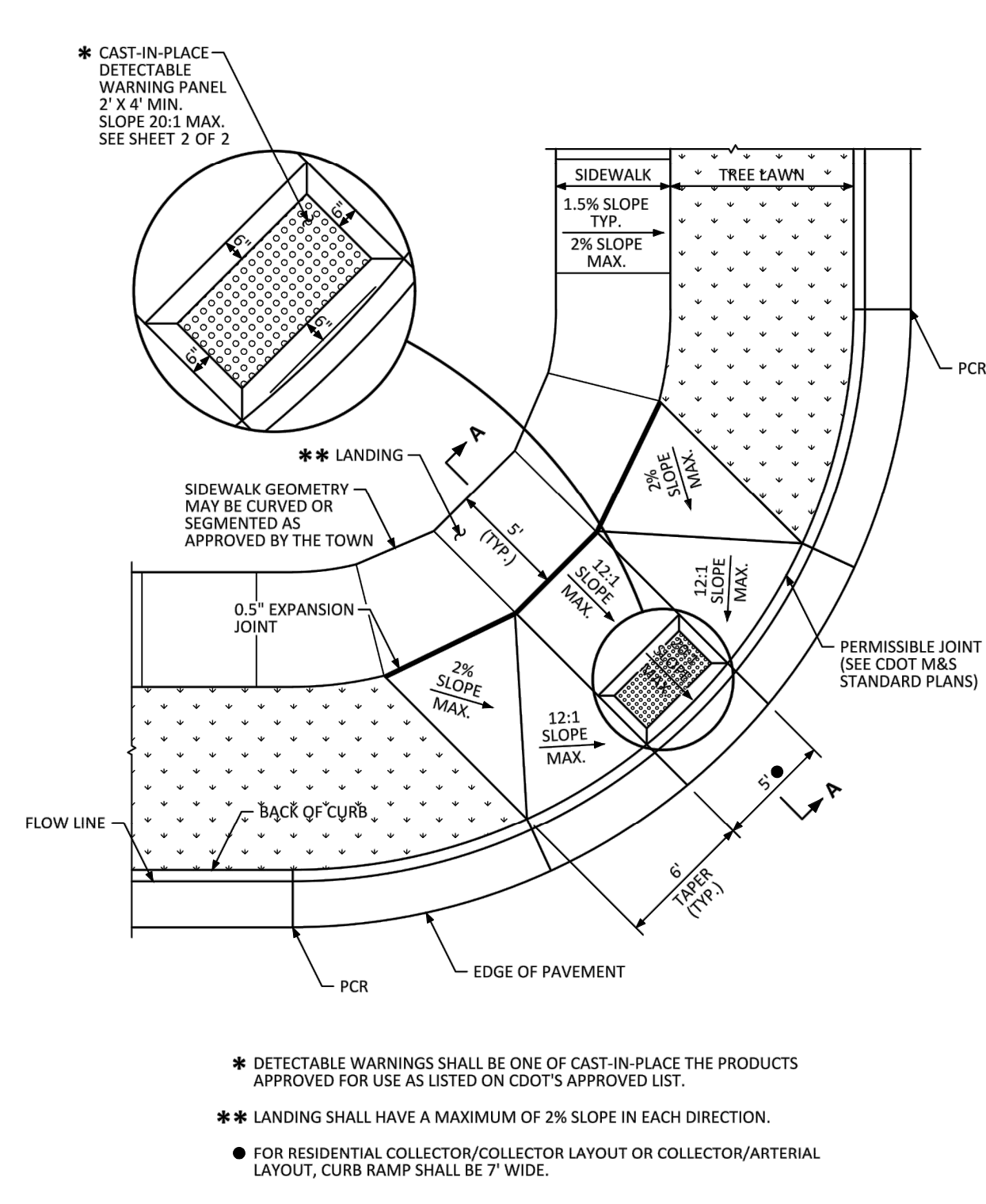
SECTION A-A

GENERAL NOTES

1. CONTRACTION JOINTS ON CONCRETE TRAILS SHALL BE SAWCUT.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO DETACHED SIDEWALK STANDARD DETAIL DATE DECEMBER 2016 DETAIL 4 1 OF 2



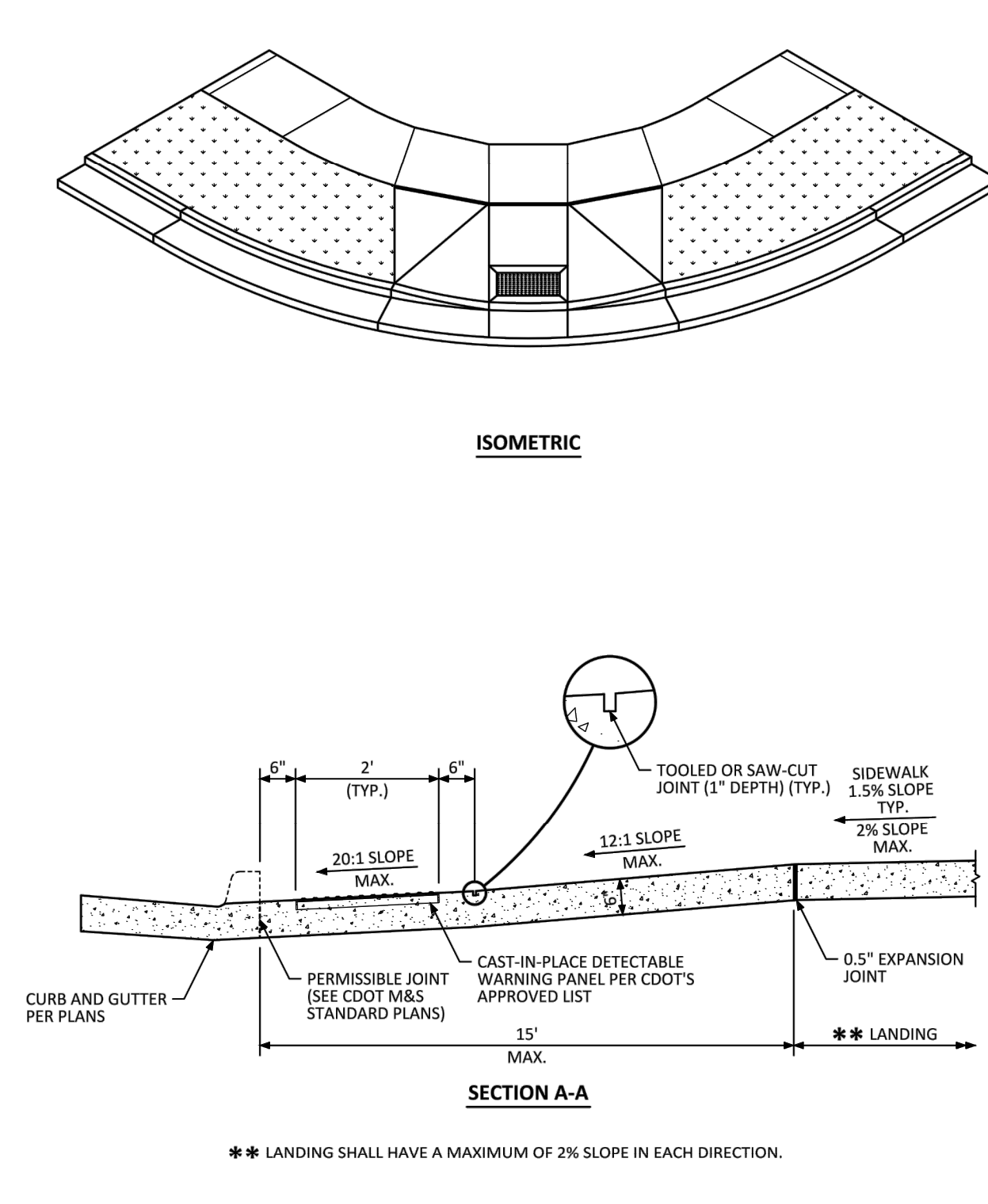
* DETECTABLE WARNINGS SHALL BE ONE OF CAST-IN-PLACE THE PRODUCTS APPROVED FOR USE AS LISTED ON CDOT'S APPROVED LIST.

** LANDING SHALL HAVE A MAXIMUM OF 2% SLOPE IN EACH DIRECTION.

• FOR RESIDENTIAL COLLECTOR/COLLECTOR LAYOUT OR COLLECTOR/ARTERIAL LAYOUT, CURB RAMP SHALL BE 7' WIDE.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO DIAGONAL CURB RAMP (DETACHED SIDEWALK) LAYOUT STANDARD DETAIL DATE DECEMBER 2016 DETAIL 15 1 OF 2



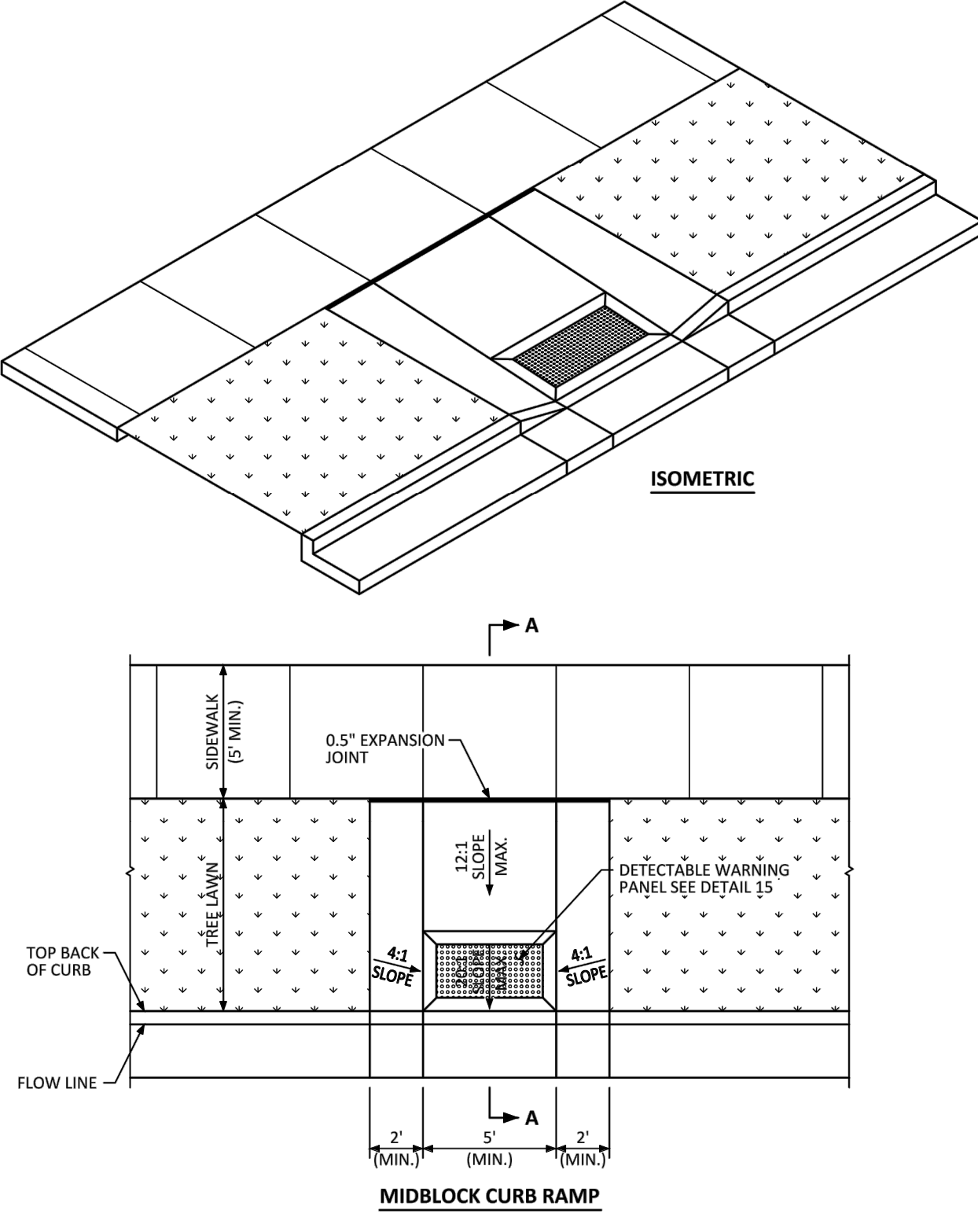
ISOMETRIC

SECTION A-A

** LANDING SHALL HAVE A MAXIMUM OF 2% SLOPE IN EACH DIRECTION.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

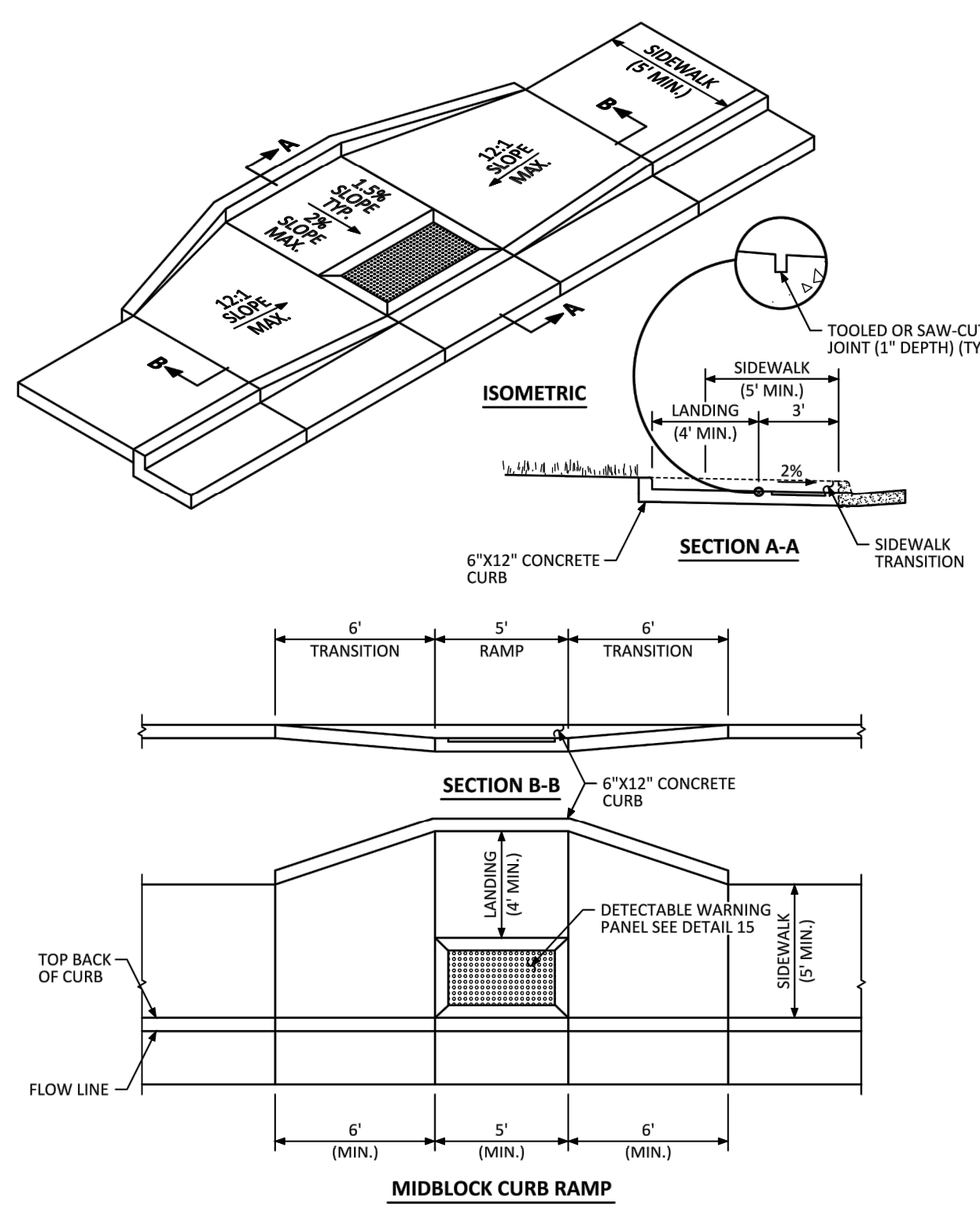
PARKER COLORADO DIAGONAL CURB RAMP LAYOUT STANDARD DETAIL DATE DECEMBER 2016 DETAIL 15 2 OF 2



MIDBLOCK CURB RAMP

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO MIDBLOCK CURB RAMP LAYOUT STANDARD DETAIL DATE DECEMBER 2016 DETAIL 17 1 OF 2

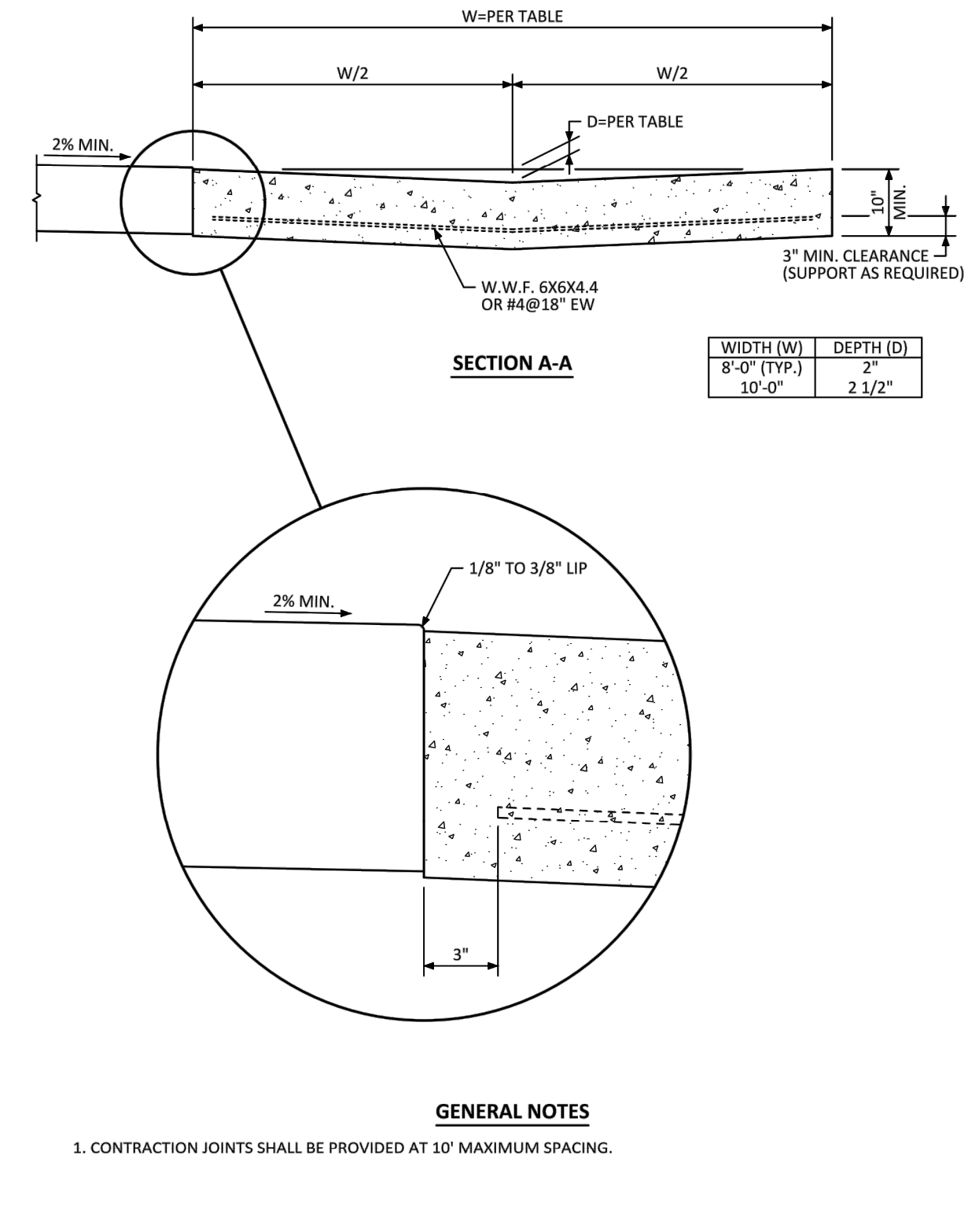


SECTION B-B

MIDBLOCK CURB RAMP

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO MIDBLOCK CURB RAMP LAYOUT STANDARD DETAIL DATE DECEMBER 2016 DETAIL 17 2 OF 2



SECTION A-A

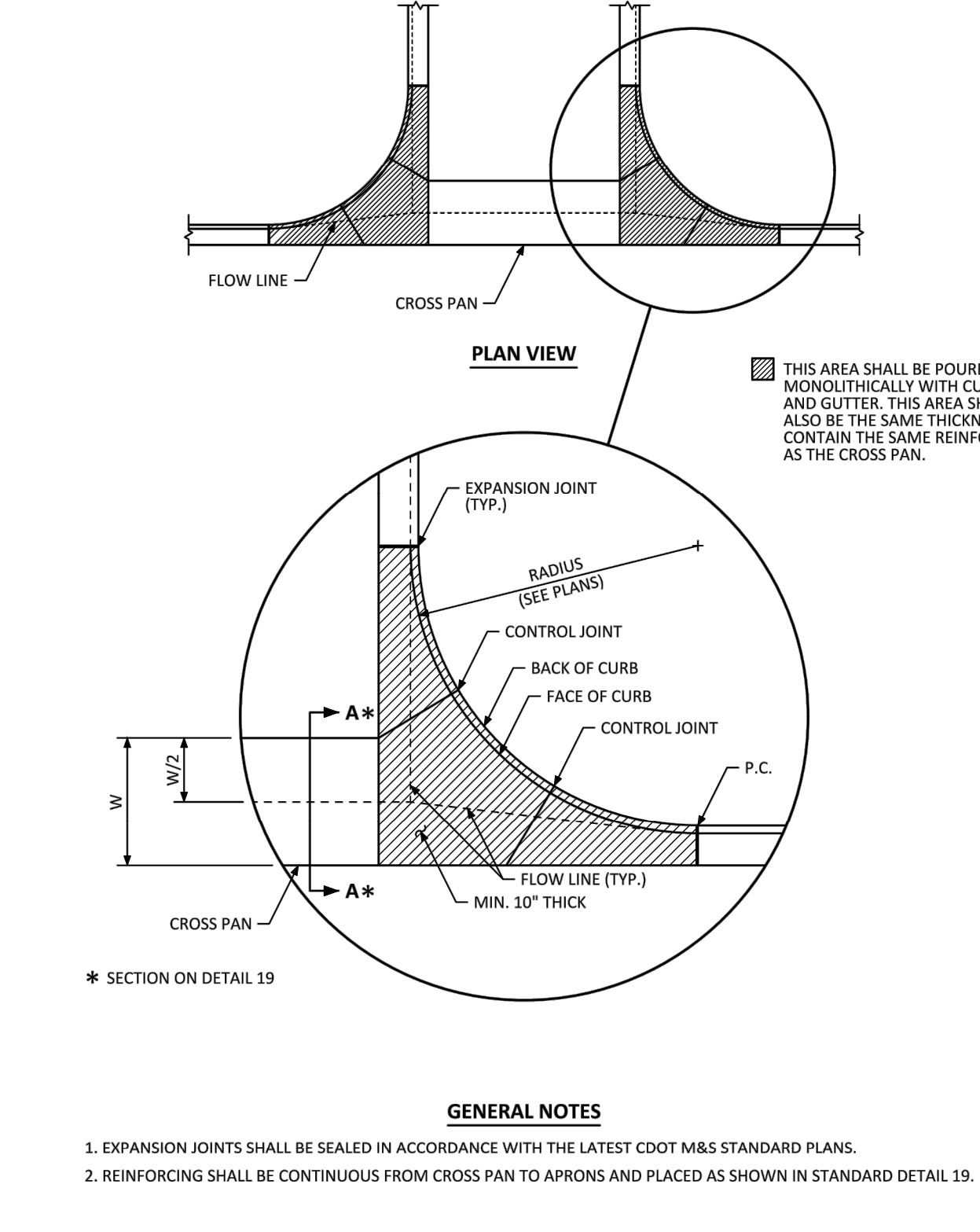
WIDTH (W)	DEPTH (D)
8'-0" (TYP.)	2'
10'-0"	2 1/2"

GENERAL NOTES

1. CONTRACTION JOINTS SHALL BE PROVIDED AT 10' MAXIMUM SPACING.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO INTERSECTION CROSS PAN LAYOUT STANDARD DETAIL DATE DECEMBER 2016 DETAIL 19 1 OF 2



PLAN VIEW

GENERAL NOTES

1. EXPANSION JOINTS SHALL BE SEALED IN ACCORDANCE WITH THE LATEST CDOT M&S STANDARD PLANS.
2. REINFORCING SHALL BE CONTINUOUS FROM CROSS PAN TO APRONS AND PLACED AS SHOWN IN STANDARD DETAIL 19.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO INTERSECTION CROSS PAN LAYOUT STANDARD DETAIL DATE DECEMBER 2016 DETAIL 19 2 OF 2

Plotted: 3/15/2021 5:27 PM. Draw Name: P:\Civic3\CompSouth09 - Belford Ave East\Draw\Final Drawings\Plan Set\Street Details.dwg. Updated By: MMCGuire

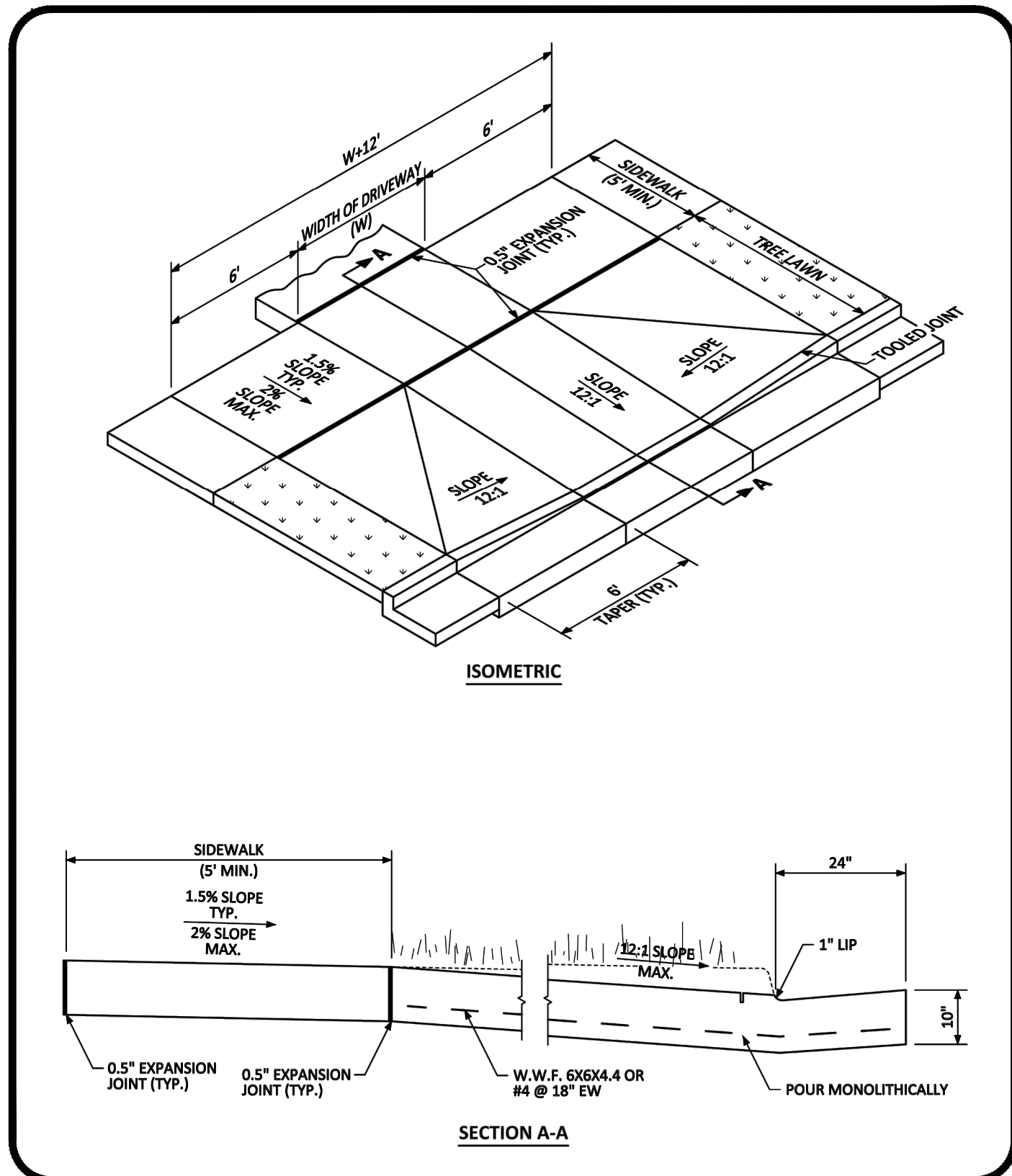
DATE	REVISIONS
11/17/16	4TH SUBMITTAL

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TOWN OF PARKER, COLORADO
STREET DETAILS

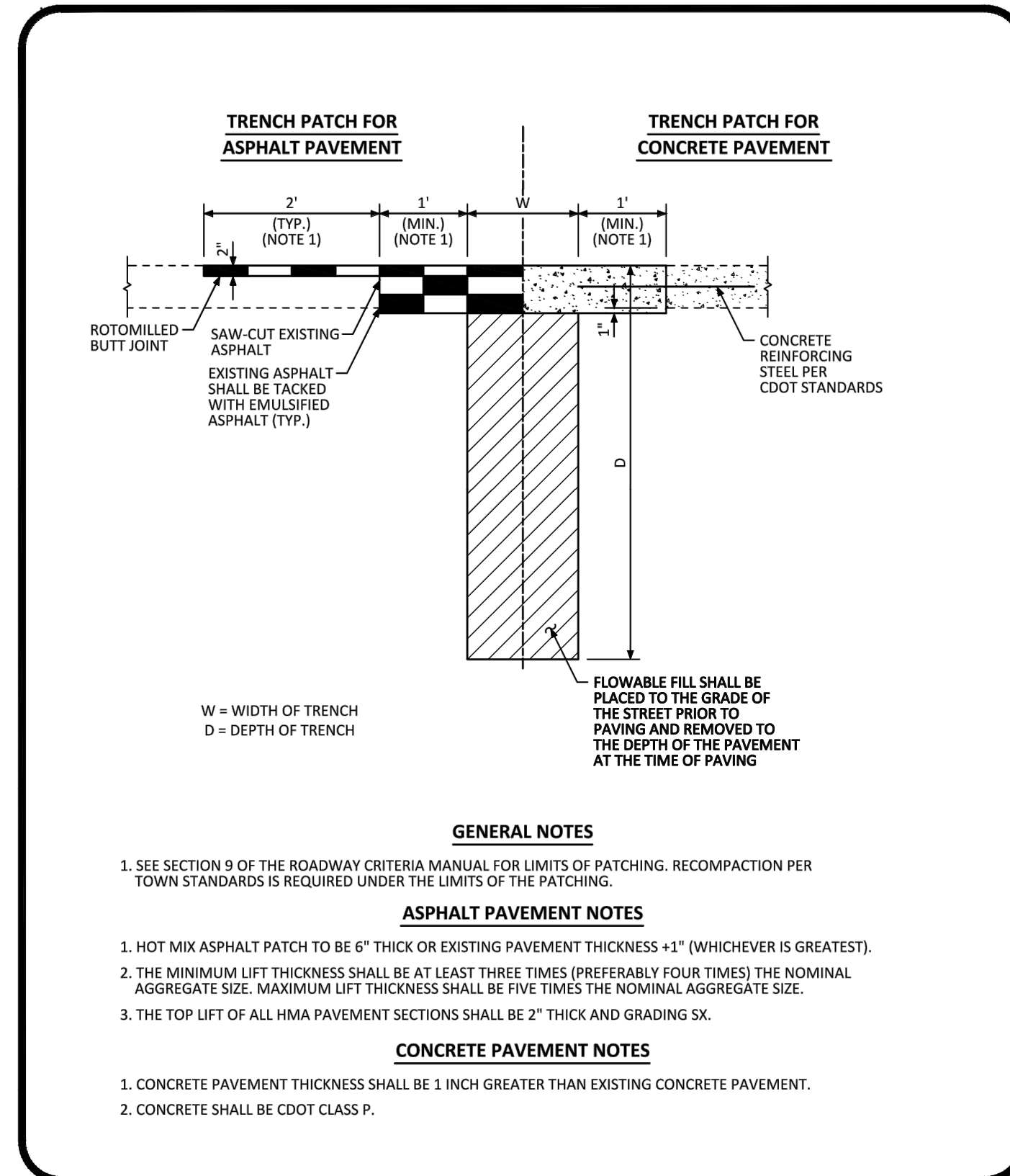
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PROJ. ASSOC.: ASD
DRAWN BY: JMP
DATE: 03/15/2021
SHEET
28 OF 33
CLCPK3 CLCPK3

PENDING APPROVAL - NOT FOR CONSTRUCTION



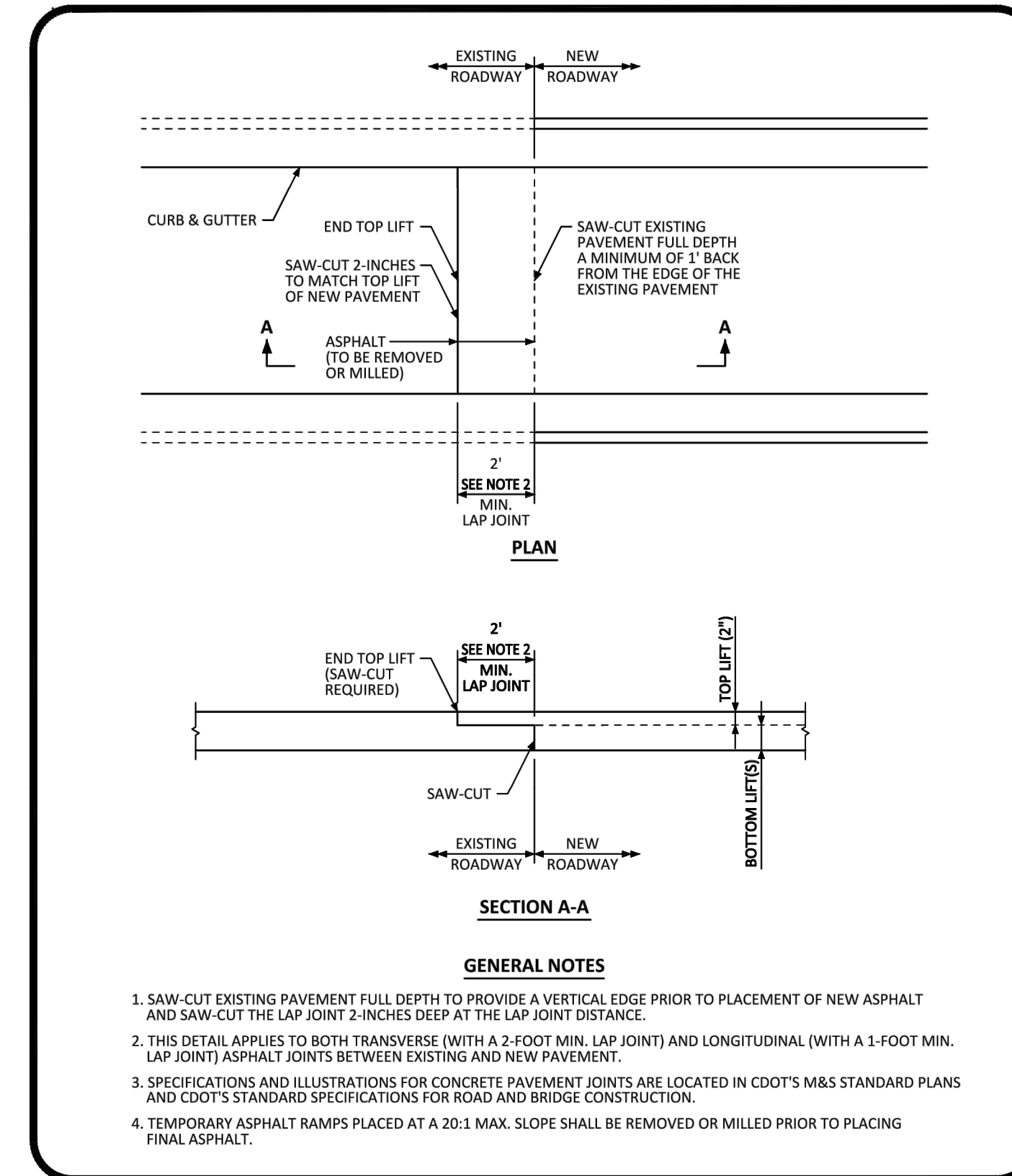
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO | **COMMERCIAL DRIVEWAY WITH DETACHED SIDEWALK STANDARD DETAIL** | DATE DECEMBER 2016 | **20** | 2 OF 2



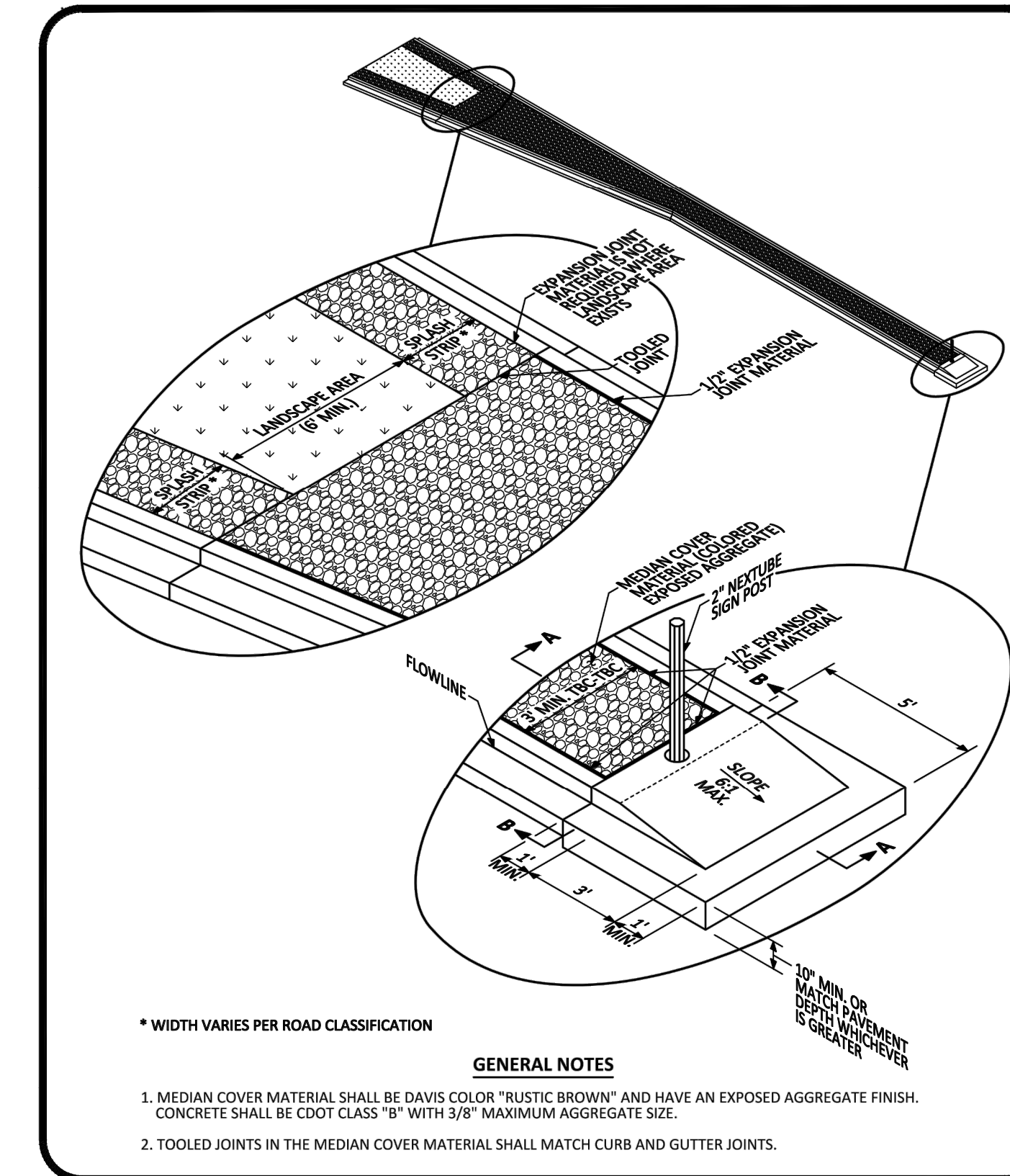
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO | **MINIMUM STREET PATCH DETERMINATION STANDARD DETAIL** | DATE DECEMBER 2016 | **25** | 1 OF 1



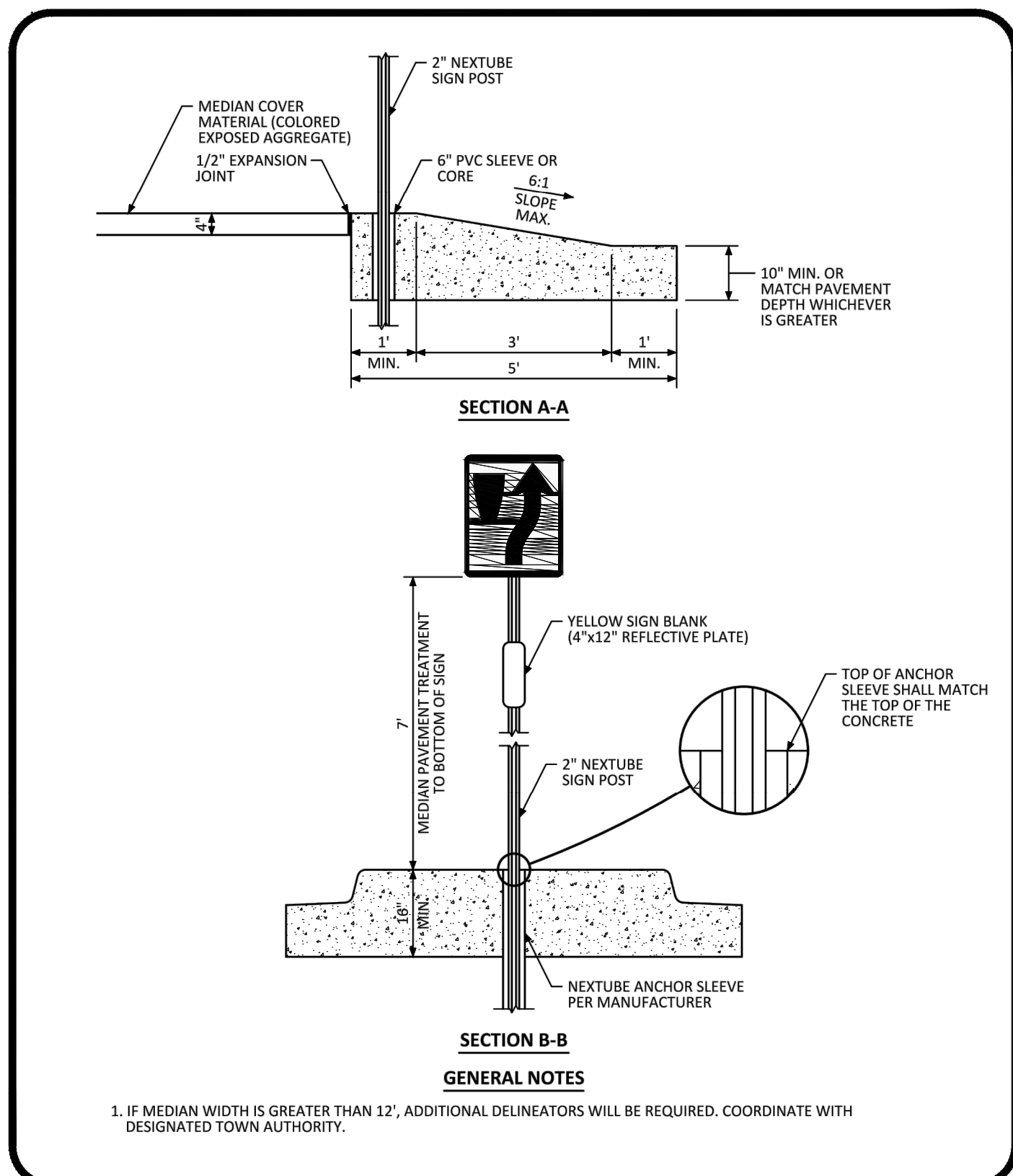
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO | **ASPHALT CONNECTION BETWEEN EXISTING AND NEW PAVEMENT STANDARD DETAIL** | DATE DECEMBER 2016 | **26** | 1 OF 1



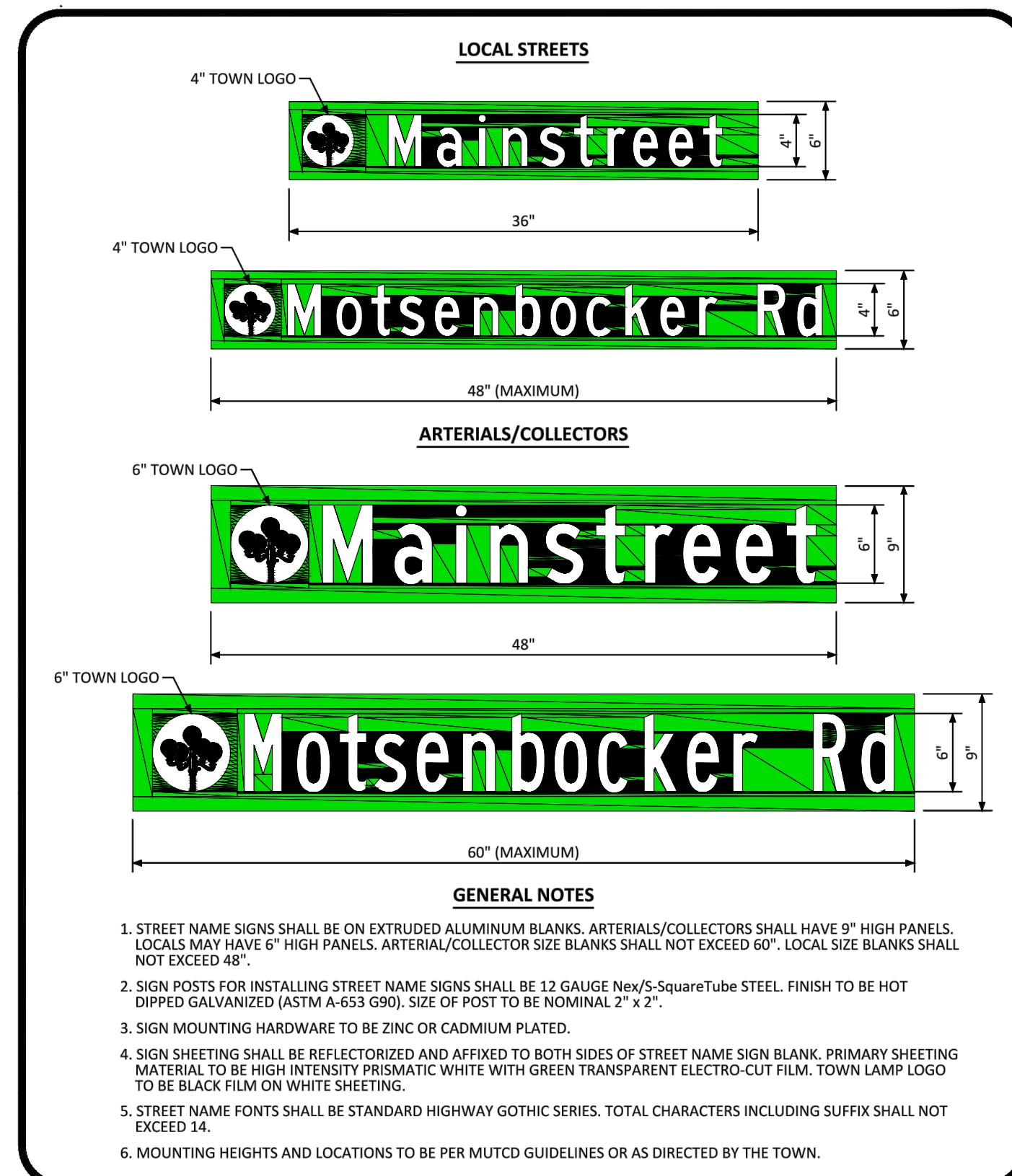
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO | **MEDIAN BULL NOSE ISOMETRIC STANDARD DETAIL** | DATE DECEMBER 2016 | **27** | 1 OF 2



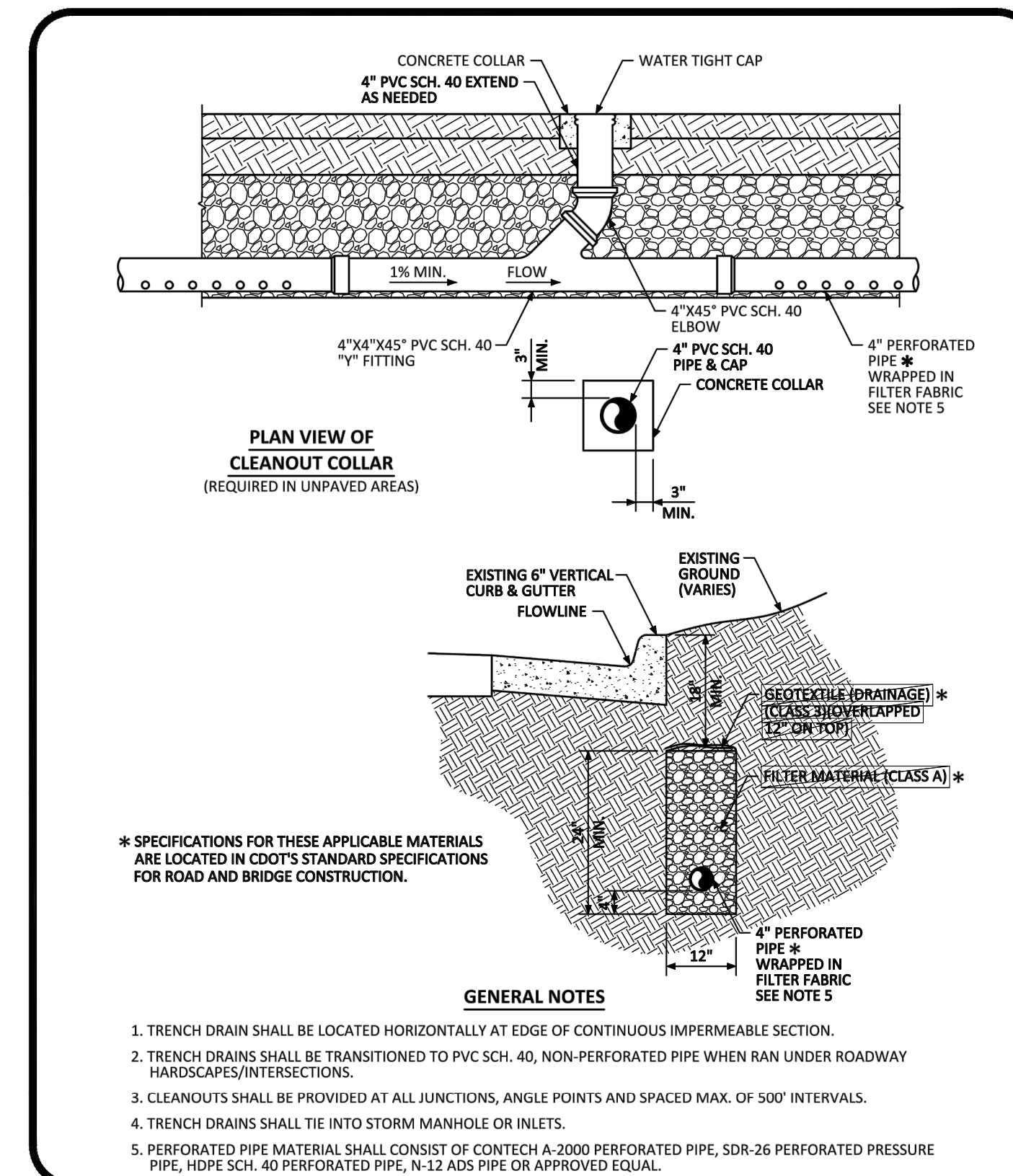
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO | **MEDIAN BULL NOSE TYPICAL SECTIONS STANDARD DETAIL** | DATE DECEMBER 2016 | **27** | 2 OF 2



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO | **GROUND MOUNTED STREET NAME PANELS** | DATE DECEMBER 2016 | **32** | 1 OF 1



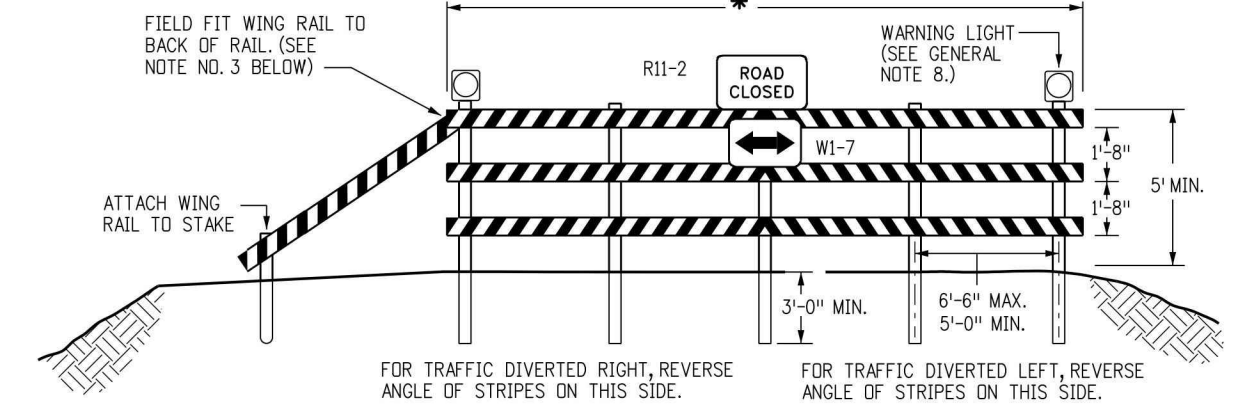
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PARKER COLORADO | **TRENCH DRAIN DETAIL SECTION STANDARD DETAIL** | DATE DECEMBER 2016 | **30** | 1 OF 1

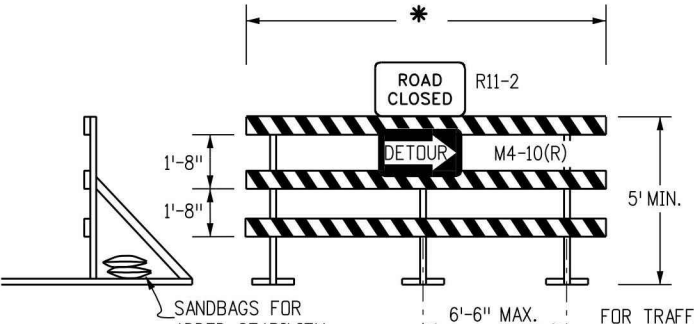
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DATE: 11/17/16
 REVISIONS: 4115 SUBMITTAL
 D: 11/17/16
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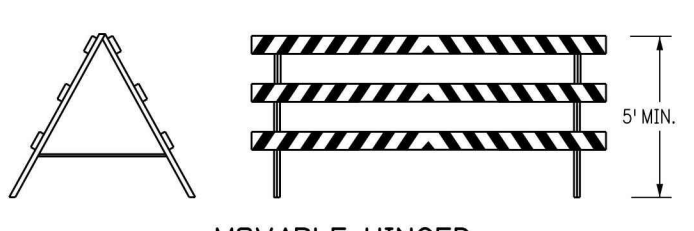
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 TOWN OF PARKER, COLORADO
 STREET DETAILS
 PROJ. MGR.: GTI
 PROJ. ASSOC.: ASD
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29 OF **33**
 CLCPKC3 CLCPKC3
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FIXED



MOVABLE-SKIDS



MOVABLE-HINGED

TYPICAL TYPE 3 BARRICADES

* RAIL LENGTH TABLE			
TYPE 3 BARRICADE	FIXED	MOVABLE	LENGTH
F - A	M - A		8'- 14'
F - B	M - B		15'- 24'
F - C	M - C		25'- 35'
F - D	M - D		> 35'

NOTES

- TYPE 3 BARRICADES HAVE 3 REFLECTORIZED RAIL FACES IF FACING TRAFFIC IN ONE DIRECTION AND 6 IF FACING TRAFFIC IN TWO DIRECTIONS.
- THE PORTION OF THE POST ABOVE THE GROUND LINE SHALL BE PAINTED IN ACCORDANCE WITH THE APPROPRIATE GENERAL NOTE.
- DETACHABLE EXTENSION WING RAILS FOR BYPASSING OF CONSTRUCTION EQUIPMENT ARE PERMITTED, WHEN NECESSARY, ON FIXED OR MOVABLE TYPE 3 BARRICADES. THE LENGTH SHALL BE ADEQUATE TO CLOSE THE BORROW PIT AND/OR SHOULDER AS REQUIRED.

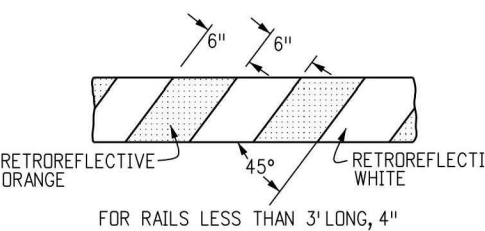
GENERAL NOTES

- THE VARIOUS TYPES, COMBINATIONS AND APPLICATIONS OF SIGNS AND WARNING LIGHTS FOR BARRICADES REQUIRED FOR EACH PROJECT SHALL BE:
 - AS SPECIFIED OR DETAILED IN THE PLANS.
 - AS SHOWN IN APPLICABLE TYPICAL ILLUSTRATIONS.
 - AS CALLED FOR AND SUBJECT TO APPROVAL BY THE ENGINEER.
- TEMPORARY AND PERMANENT BARRICADES TYPE 3 SHALL BE FABRICATED FROM APPROVED CRASH TESTED MATERIALS. SEE SECTION 614 AND 430 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR ADDITIONAL REQUIREMENTS.
- ALL PAINTING SHALL CONFORM WITH THE FOLLOWING:
 - THE APPLICABLE SECTION OF 508 OF THE STANDARD SPECIFICATIONS.
 - ALL SKIDS, BRACES AND POSTS SHALL BE PAINTED WITH 2 COATS OF EXTERIOR WHITE PAINT.
 - THE BACKSIDES OF RAILS AND VERTICAL PANEL CHANNELIZING DEVICES FACING ONE DIRECTION OF TRAFFIC ONLY SHALL BE PAINTED WITH "EXTERIOR WHITE PAINT."
 - ALUMINUM OR GALVANIZED STEEL SKIDS, BRACES AND POSTS SHALL NOT BE PAINTED.
- ALL STRIPED SURFACES SHALL CONFORM WITH THE FOLLOWING:
 - THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE FABRICATED AS ONE PIECE.
 - HORIZONTAL RAILS, WING RAILS AND VERTICAL PANEL CHANNELIZING DEVICES SHALL HAVE ORANGE AND WHITE STRIPES ON THE FACE SIDE(S) SLANTING DOWNWARD AT A 45° ANGLE TOWARD THE SIDE(S) TO WHICH TRAFFIC IS TO PASS OR TURN.
 - PERMANENT BARRICADES SHALL HAVE RETROREFLECTIVE RED AND WHITE STRIPES. THEY MAY BE USED AT LOCATIONS TO MARK THE END OF A ROAD, STREET OR HIGHWAY THAT ENDS AT A "T" INTERSECTION, OR WHERE THERE IS NO CROSSROAD OR OUTLET.
 - ALL RETROREFLECTIVE SHEETING SHALL CONFORM TO ASTM D4956:
 - ORANGE AND WHITE SHALL BE TYPE II, III OR IV.
 - RED AND WHITE SHALL BE TYPE II, III OR IV.
- FOR ALL WOODEN BARRICADE COMPONENTS NOMINAL LUMBER DIMENSIONS ARE SATISFACTORY.
- ALL SCREWS, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED OR CADMIUM PLATED.
- STABILITY OF BARRICADES AND CHANNELIZING DEVICES SHALL CONFORM WITH THE FOLLOWING:
 - SKIDS (BASES) OF MOVABLE BARRICADES SHALL BE WEIGHED WITH SANDBAGS ONLY WHERE NECESSARY TO PROVIDE STABILITY.
 - NO MOVABLE OR PORTABLE DEVICE SHALL BE WEIGHED BY ANY METHOD OR WITH ANY MATERIAL THAT WOULD MAKE THEM HAZARDOUS TO MOTORISTS.
- WARNING LIGHTS USED WITH BARRICADES, DRUMS AND VERTICAL PANELS SHALL CONFORM WITH THE FOLLOWING:
 - PRECAST CONCRETE WARNING LIGHTS WHEN DEVICES ARE USED SINGLY, AND STEADY BURN LIGHTS WHEN THEY ARE USED IN A SERIES FOR CHANNELIZATION.
 - THEY SHALL BE POSITIONED ABOVE THE TOP RAIL OF BARRICADES OR ON TOP OF DRUMS AND VERTICAL PANELS.
- CONCRETE BARRIER (TEMPORARY) SHALL CONFORM WITH:
 - PRECAST CONCRETE BARRIER AS SHOWN ON COLORADO STANDARD PLAN M-609-14.
 - BARRIER REFLECTORS SHALL BE INSTALLED THAT MEET THE REQUIREMENTS OF STANDARD TYPICAL DELINEATOR INSTALLATIONS, EXCEPT THE MAXIMUM SPACING SHALL BE 50' AND THEY WILL NOT BE PAID FOR BUT ARE INCLUDED IN THE COST OF THE BARRIER.
 - CONCRETE BARRIER END TREATMENT SHALL BE IN ACCORDANCE WITH CLEAR ZONE CRITERIA, AND PLACED AS SHOWN ON THE PLANS.
- SIGN PANELS MOUNTED ON BARRICADES WILL BE PAID FOR SEPARATELY.

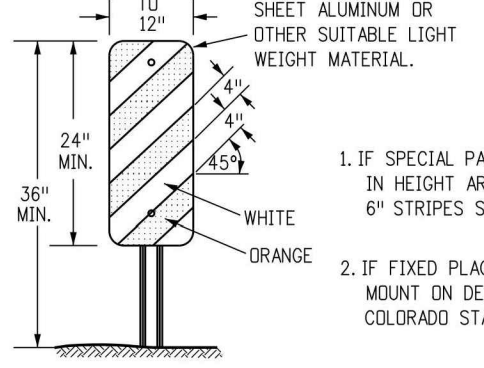
TYPICAL BARRICADE CHARACTERISTICS

BARRICADE DESIGNATIONS	
TYPE 3	
RAIL WIDTH	8" MIN.-12" MAX.
RAIL LENGTH	AS REQUIRED, SEE RAIL LENGTH TABLE
HEIGHT	5' MIN.
USE	TEMPORARY OR PERMANENT
STRIPES	SEE DETAIL OF BARRICADE STRIPING AND APPROPRIATE GENERAL NOTES.

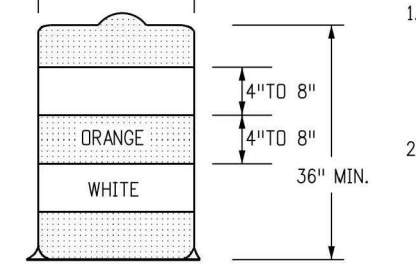
RAIL STRIPING DETAIL



TYPICAL VERTICAL PANEL




TYPICAL DRUM



Computer File Information	
Creation Date: 07/04/19	Initiator: JSW
Last Modification Date:	Initiator:
Full Path: www.colorado.gov/library/traffic/traffic-standard-plans	
Drawing File Name: S-630-02_1of1.dgn	
CAD Ver: MicroStation V8	Scale: Not to Scale Units: English

Sheet Revisions	
Date:	Comments:
06/03/16	UPDATED GENERAL NOTES 4 & 5

Colorado Department of Transportation




4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9543
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Safety & Traffic Engineering Branch KCM/MKB

BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) & VERTICAL PANELS	
STANDARD PLAN NO.	S-630-2
Sheet No. 1 of 1	

DATE	REVISIONS
11/17/16	4TH SUBMITTAL



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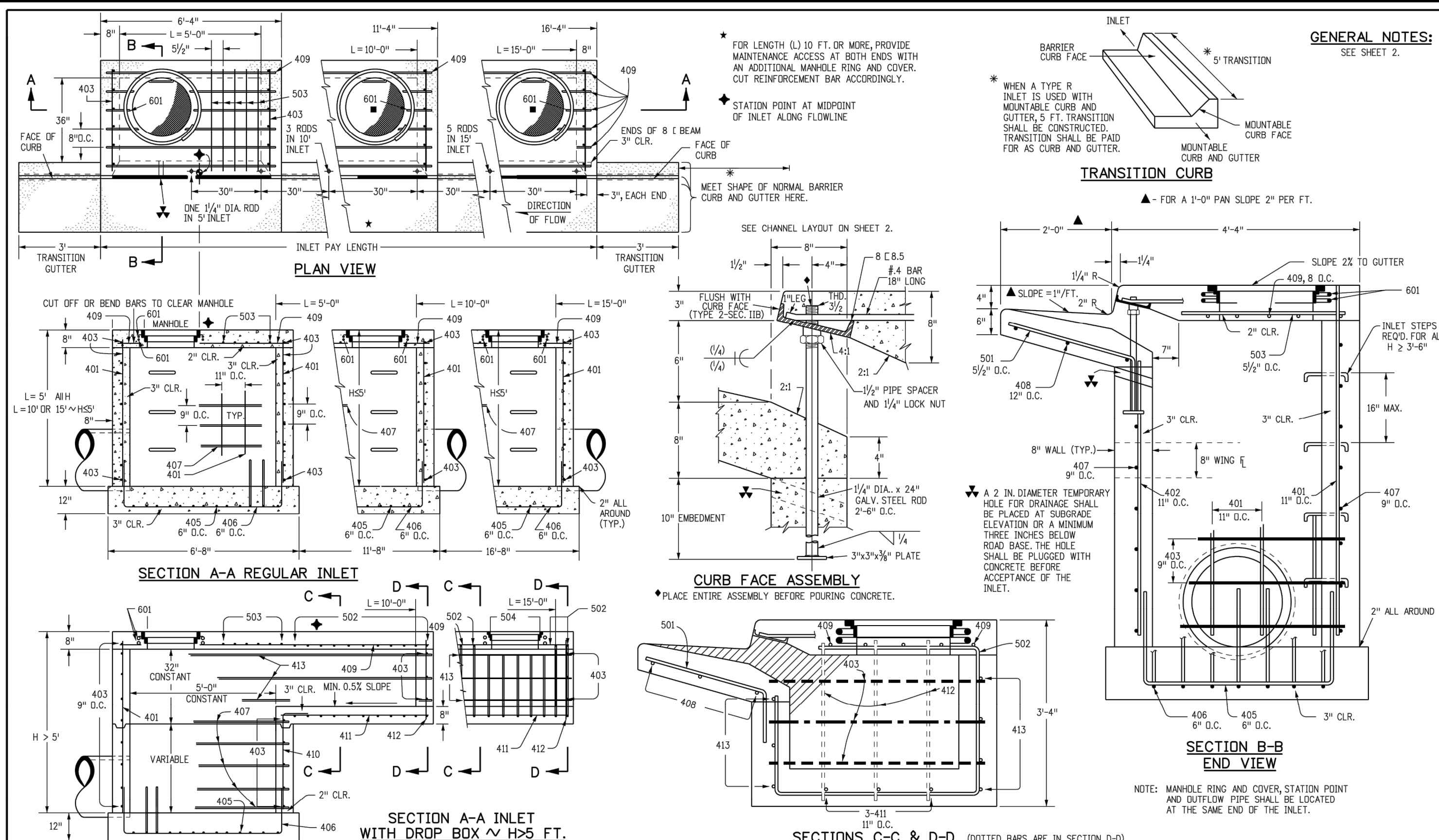
COMPARK VILLAGE SOUTH, FILING NO. 3 - BELFORD AVENUE

TOWN OF PARKER, COLORADO

STREET DETAILS

PROJ. MGR.: GTI
 PROJ. ASSOC.: ASD
 DRAWN BY: JMP
 DATE: 03/15/2021

SHEET
30 OF 33
 CLCPKC3 CLCPKC3



GENERAL NOTES:
SEE SHEET 2.

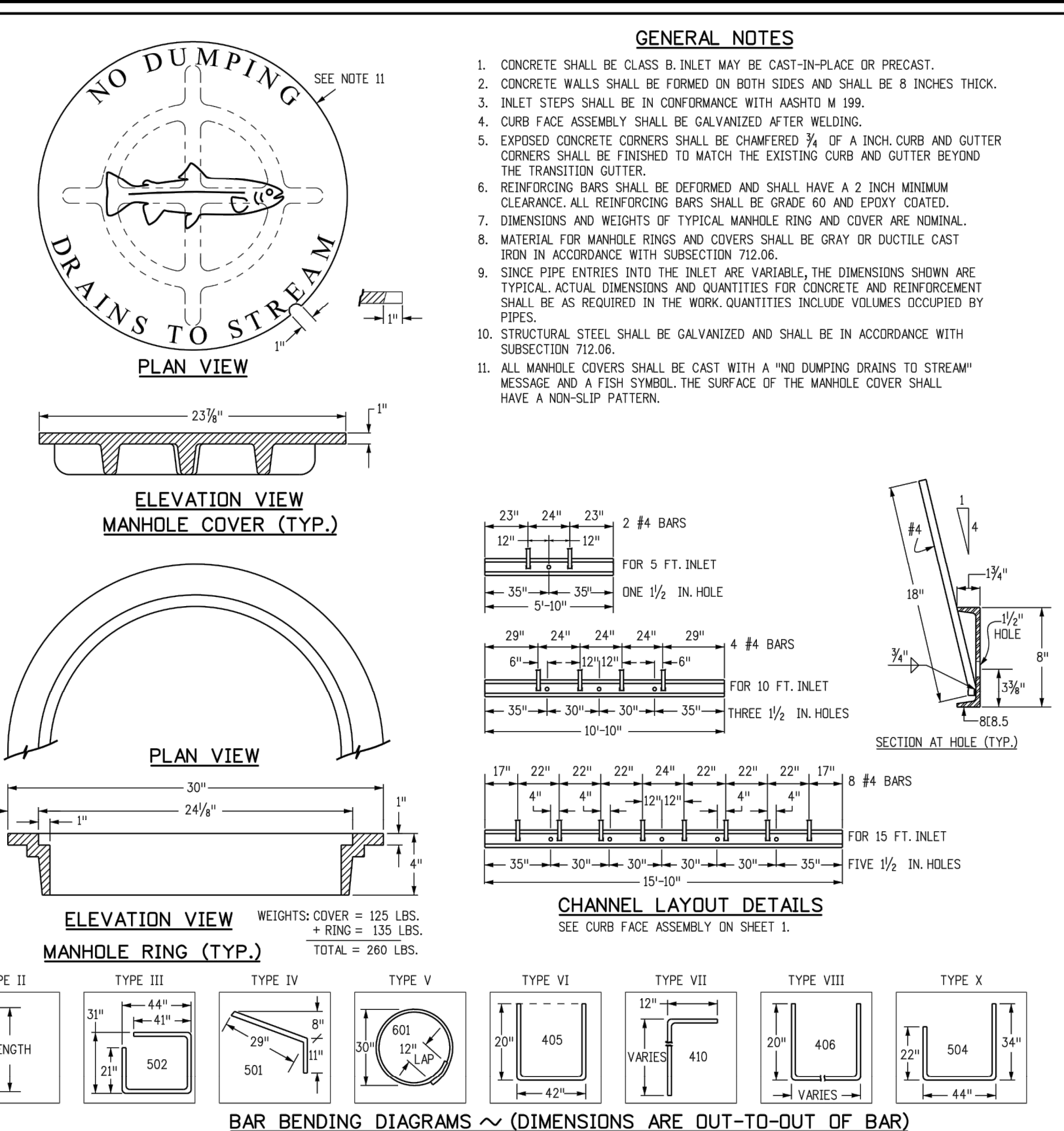
MARK	BAR # OR SIZE	O.C. SPACING	TYPE	ALL INLETS			INLETS: H ≤ 5 FT.			INLETS: H > 5 FT.					
				L = 5 FT.	L = 10 FT.	L = 15 FT.	L = 5 FT.	L = 10 FT.	L = 15 FT.	L = 5 FT.	L = 10 FT.	L = 15 FT.			
				NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH
401	4	11"	II	15	*	21	*	26	*	11	*	11	*		
402	4	11"	II	7	*	13	*	18	*	7	*	7	*		
403	4	9"	II	*	4'-0"	*	4'-0"	*	4'-0"	*	4'-0"	*	4'-0"		
405	4	6"	VI	11	6'-10"	21	6'-10"	31	6'-10"	11	6'-10"	11	6'-10"		
406	4	6"	VIII	7	8'-10"	7	13'-10"	7	18'-10"	7	8'-10"	7	8'-10"		
407	4	9"	II	*	5'-10"	*	10'-10"	*	15'-10"	*	5'-10"	*	5'-10"		
408	4	12"	II	3	8'-10"	3	12'-10"	3	16'-10"	3	12'-10"	3	16'-10"		
409	4	8"	II	6	5'-10"	6	10'-10"	6	15'-10"	6	10'-10"	6	15'-10"		
410	4	11"	VII							3		3			
411	4	11"	II							3	5'-2"	3	10'-2"		
412	4	11"	II							3	2'-6"	3	2'-6"		
413	4	9"	II							7	10'-10"	7	15'-10"		
501	5	5/8"	IV	11	3'-4"	22	3'-4"	33	3'-4"	22	3'-4"	33	3'-4"		
502	5	5/8"	IV							11	11'-5"	17	11'-5"		
503	5	5/8"	IV	5	3'-6"	16	3'-6"	27	3'-6"	6	3'-6"	6	3'-6"		
504	5	5/8"	IV							6	3'-6"	5	8'-4"		
601	6	2 1/2"	V	2	8'-10"	2	8'-10"	2	8'-10"	2	8'-10"	4	8'-10"		

VARIOUS REFER TO TABLE TWO.
 INCLUDE #4, 18 IN BARS (SEE CHANNEL LAYOUT).

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

H ^{1/4}	LENGTH	NO. REQ'D.		L = 5 FT.		L = 10 FT.		L = 15 FT.	
		REGULAR	DROP BOX	CONC. QTY. YDS.	STEEL QTY. LBS.	CONC. QTY. YDS.	STEEL QTY. LBS.	CONC. QTY. YDS.	STEEL QTY. LBS.
3'-0"	2'-8"	10	7	3.2	285	5.3	497	7.4	708
3'-6"	3'-2"	10	7	3.4	305	5.7	528	7.9	747
4'-0"	3'-8"	12	9	3.7	326	6.0	558	8.4	786
4'-6"	4'-2"	12	9	3.9	354	6.4	571	8.8	803
5'-0"	4'-8"	14	11	4.1	354	6.7	602	9.3	844
5'-6"	5'-2"	16	13	4.4	375	6.9	607	7.4	850
6'-0"	5'-8"	16	13	4.6	382	6.2	616	7.6	860
6'-6"	6'-2"	18	15	4.8	402	6.4	637	7.8	880
7'-0"	6'-8"	20	17	5.0	433	6.6	654	8.0	897
7'-6"	7'-2"	20	17	5.0	430	6.9	664	8.3	907
8'-0"	7'-8"	22	19	5.2	451	7.1	684	8.5	927
8'-6"	8'-2"	24	21	5.7	471	7.3	702	8.7	944
9'-0"	8'-8"	24	21	5.0	479	7.6	711	9.0	954
9'-6"	9'-2"	26	23	5.6	499	7.8	732	9.2	974
10'-0"	9'-8"	28	25	5.8	520	8.0	749	9.4	992
10'-6"	10'-2"	28	25	5.8	527	8.3	759	9.7	1001
11'-0"	10'-8"	30	27	6.0	547	8.5	779	9.9	1022

NOTES FOR L = 5 FT., L = 10 FT., AND L = 15 FT.
 REGULAR INLETS: TOTAL QUANTITIES NEEDED ARE OUTSIDE THE HEAVY BLACK LINE.
 DROP BOX INLETS: TOTAL QUANTITIES NEEDED ARE INSIDE THE HEAVY BLACK LINE.
 STEEL WEIGHTS DO NOT INCLUDE STRUCTURAL STEEL CHANNEL.



Computer File Information
 Creation Date: 07/31/19
 Designer Initials: JBK
 Last Modification Date: 07/31/19
 Detaller Initials: LTA
 CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions

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 2829 West Howard Place
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 Denver, CO 80204
 Phone: 303-757-9021 FAX: 303-757-9868
 Project Development Branch JBK

CURB INLET TYPE R

STANDARD PLAN NO. M-604-12
 Standard Sheet No. 1 of 2
 Issued by the Project Development Branch July 31, 2019
 Project Sheet Number:

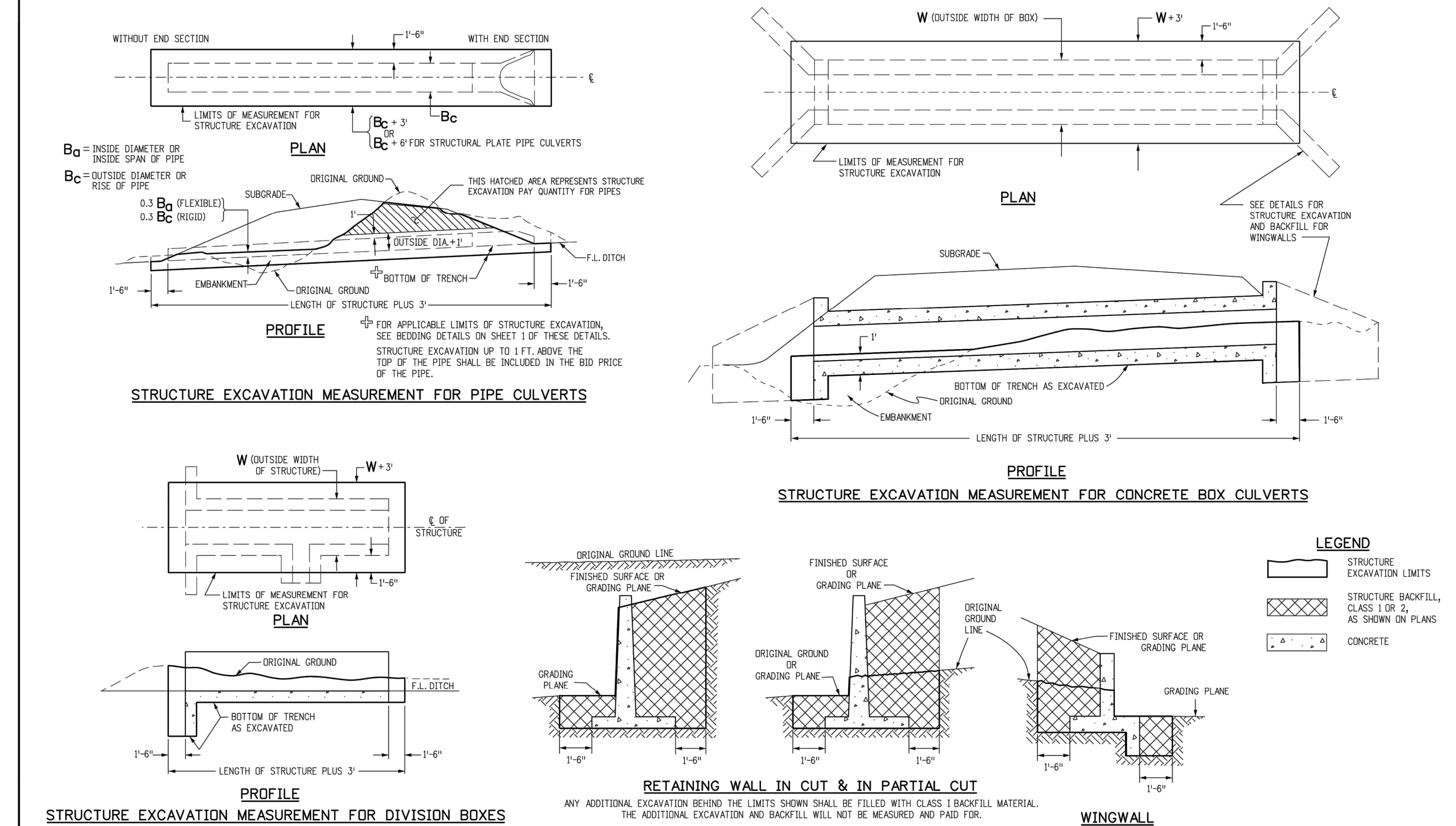
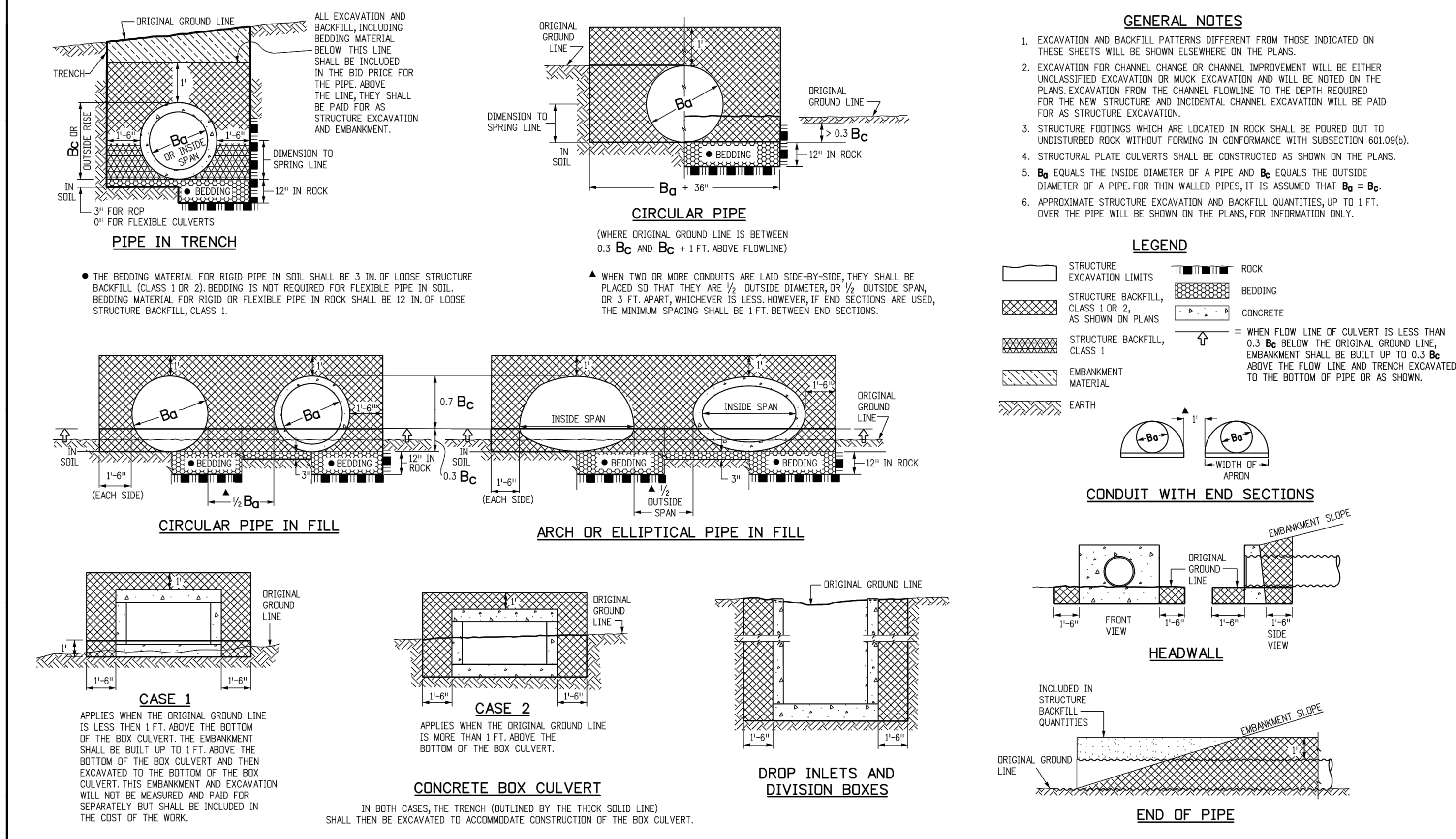
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Sheet Revisions

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 Denver, CO 80204
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 Project Development Branch JBK

CURB INLET TYPE R

STANDARD PLAN NO. M-604-12
 Standard Sheet No. 2 of 2
 Issued by the Project Development Branch July 31, 2019
 Project Sheet Number:



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 Project Development Branch JBK

EXCAVATION AND BACKFILL FOR STRUCTURES

STANDARD PLAN NO. M-206-1
 Standard Sheet No. 1 of 2
 Issued by the Project Development Branch July 31, 2019
 Project Sheet Number:

Computer File Information
 Creation Date: 07/31/19
 Designer Initials: JBK
 Last Modification Date: 07/31/19
 Detaller Initials: LTA
 CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions

Colorado Department of Transportation
 2829 West Howard Place
 CDOT HQ, 3rd Floor
 Denver, CO 80204
 Phone: 303-757-9021 FAX: 303-757-9868
 Project Development Branch JBK

EXCAVATION AND BACKFILL FOR STRUCTURES

STANDARD PLAN NO. M-206-1
 Standard Sheet No. 2 of 2
 Issued by the Project Development Branch July 31, 2019
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811
 Know what's below.
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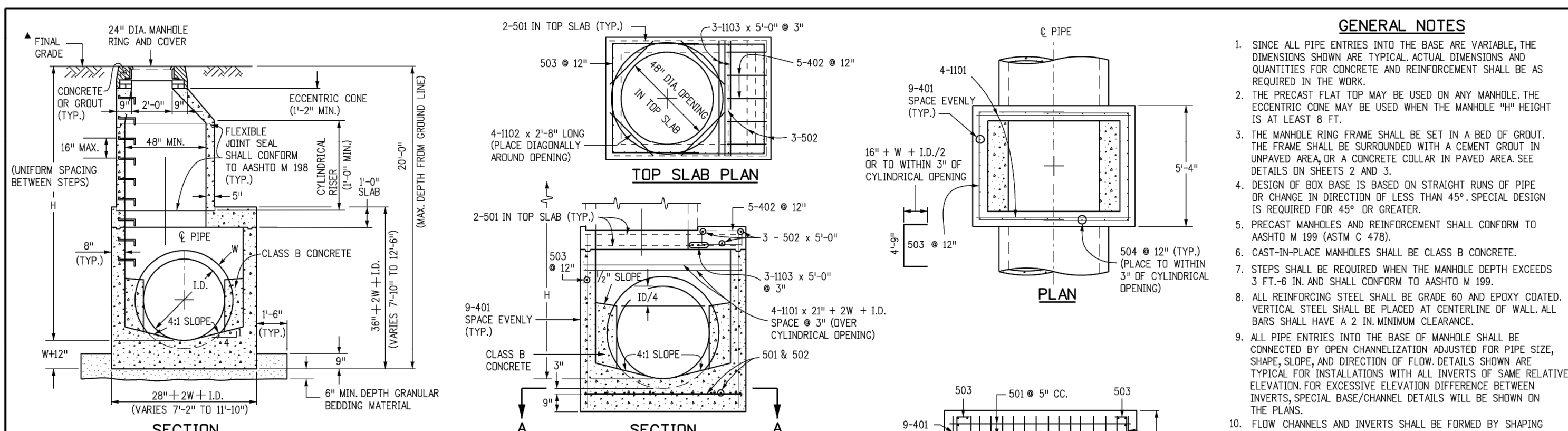
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COMPARK VILLAGE SOUTH, FILING NO. 3 - BELFORD AVENUE
TOWN OF PARKER, COLORADO
STORM DETAILS

PROJ. MGR.: GTI
 PROJ. ASSOC.: ASD
 DRAWN BY: JMP
 DATE: 03/15/2021

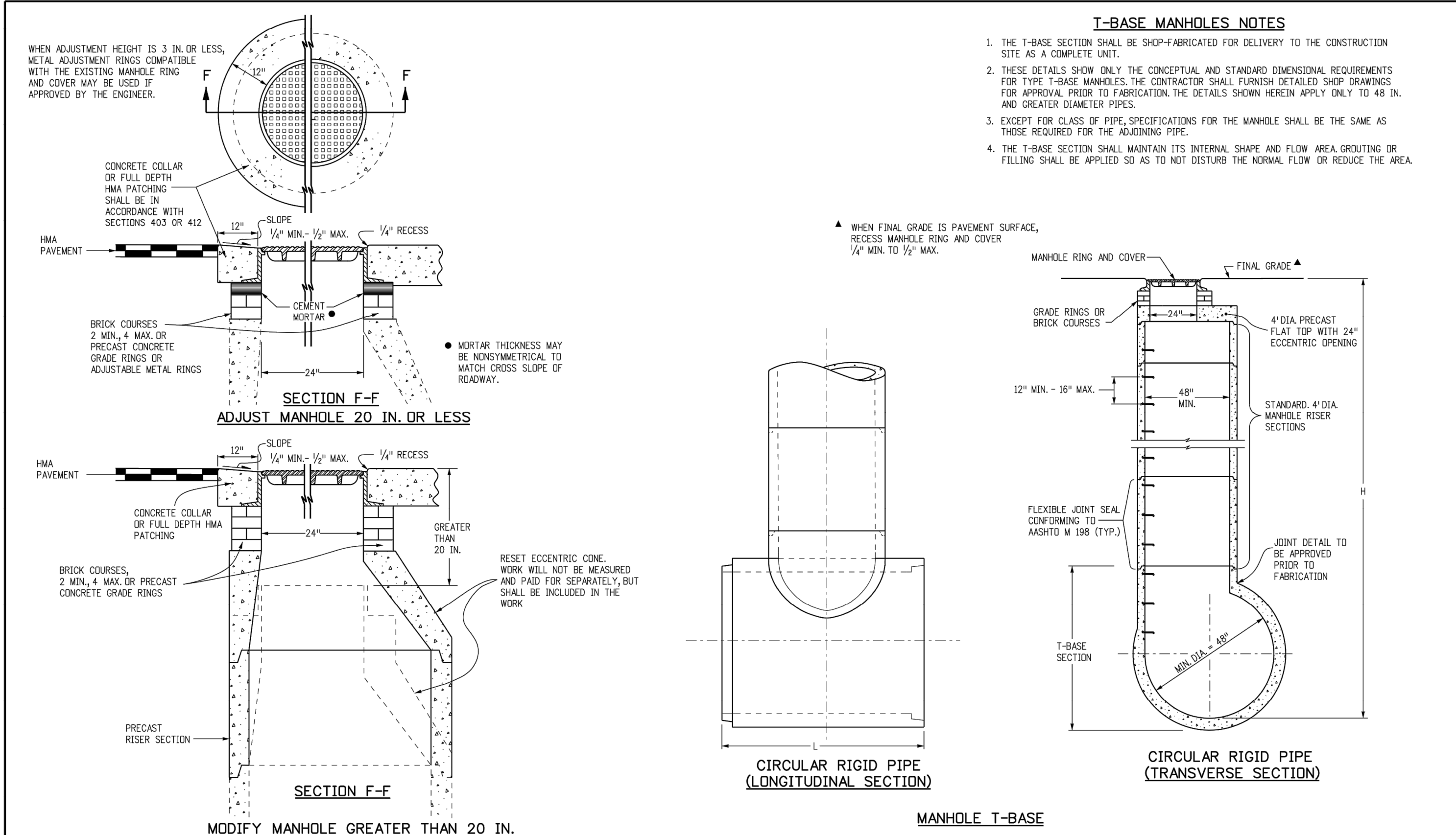
SHEET
31 OF **33**
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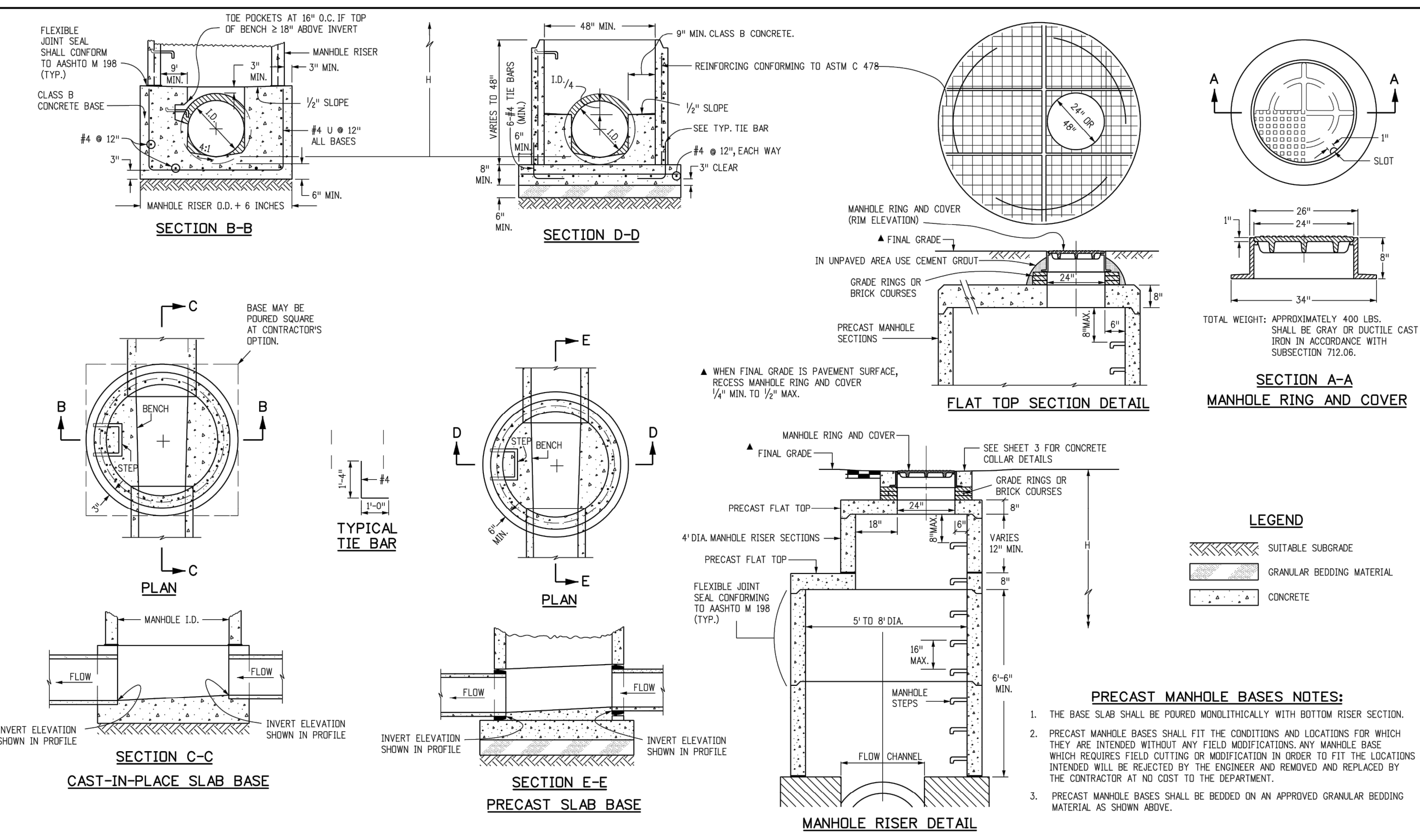


MANHOLE BOX BASE											
MARK	SIZE	TYPE	WT. #/FT.	BARS	I.D.	FORMULAS					
401	4	I	0.668	(NO. REQ'D.) LENGTH WEIGHT #	54" 60" 66" 72" 78"	401 BAR LENGTH = 32" + 2W + I.D.					
402	4	III	0.668	(NO. REQ'D.) LENGTH WEIGHT #	54" 60" 66" 72" 78"	402 BAR LENGTH = I.D. + 2W					
501	5	I	1.043	(NO. REQ'D.) LENGTH WEIGHT #	54" 60" 66" 72" 78"	501 BAR LENGTH = I.D. + 2W					
502	5	I	1.043	(NO. REQ'D.) LENGTH WEIGHT #	54" 60" 66" 72" 78"	502 NUMBER BARS REQ'D. = 3 + (24(I.D.+2W+H) / 5)					
503	5	II	1.043	(NO. REQ'D.) LENGTH WEIGHT #	54" 60" 66" 72" 78"	503 NUMBER BARS REQ'D. = 2 (13(I.D.+2W+H) / 5)					
504	5	I	1.043	(NO. REQ'D.) LENGTH WEIGHT #	54" 60" 66" 72" 78"	504 NUMBER BARS REQ'D. = 2 (2W(I.D.+H) / 5)					
1101	11	I	5.313	(NO. REQ'D.) LENGTH WEIGHT #	54" 60" 66" 72" 78"	1101 BAR LENGTH = 21" + I.D. + 2W					
1102	11	I	5.313	(NO. REQ'D.) LENGTH WEIGHT #	54" 60" 66" 72" 78"	1102 TYPE I					
1103	11	I	5.313	(NO. REQ'D.) LENGTH WEIGHT #	54" 60" 66" 72" 78"	1103 TYPE II					
REINFORCING STEEL TOTAL						965.6	1,037.5	1,177.2	1,204.0	1,380.2	1,601.6
CONCRETE - CUBIC YARDS - TOTAL						8.0	5.6	7.3	8.0	9.5	11.1

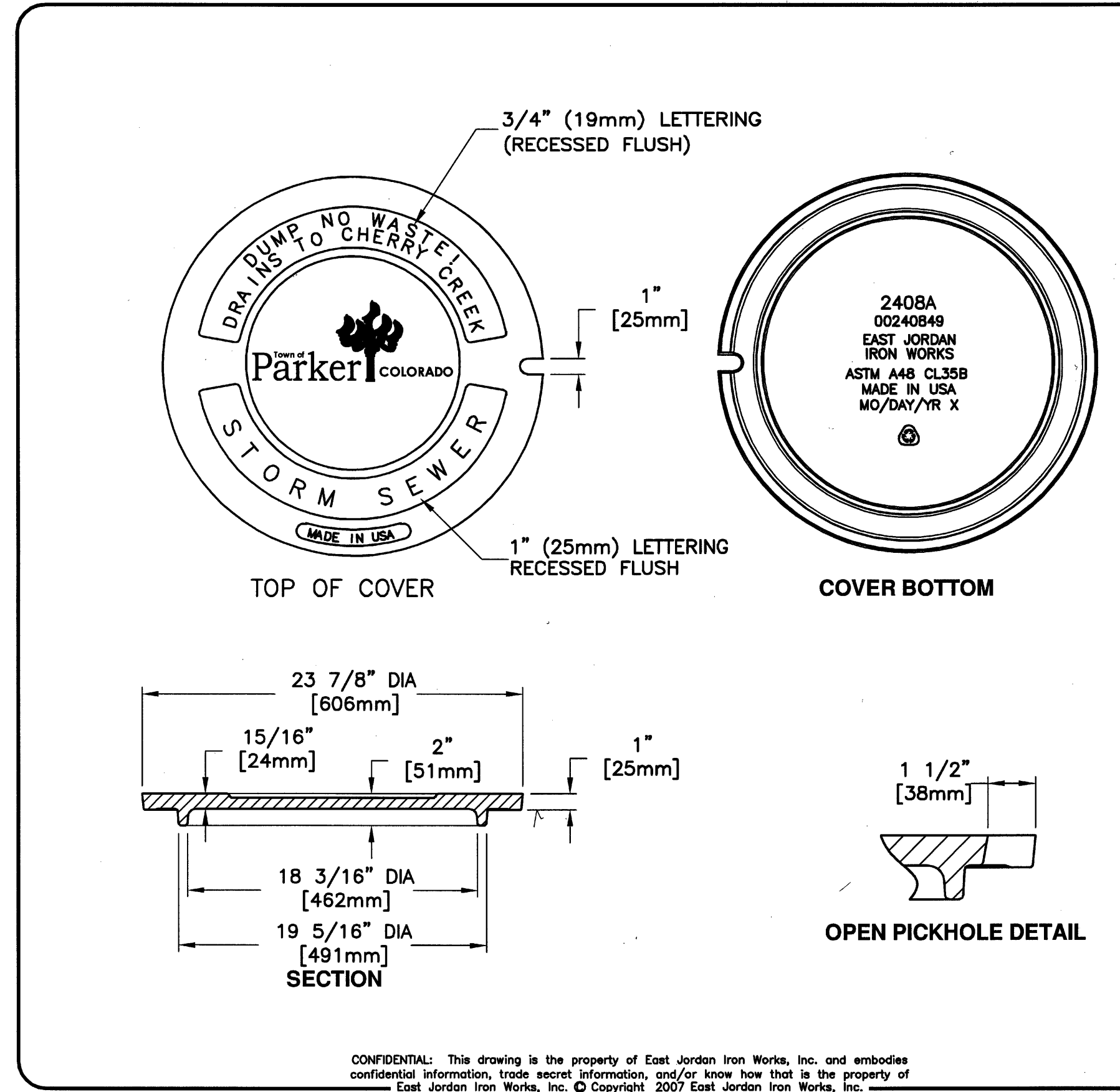
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Creation Date: 07/31/19	Designer Initials: JBK	Date:	Comments:	2829 West Howard Place CDOT HO, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9988		M-604-20	
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EJW EAST JORDAN IRON WORKS EST. 1883	
800-626-4653 www.ejw.com MADE IN USA	
PRODUCT NUMBER	00240849
CATALOG NUMBER	2408A
COVER	
LOAD RATING	HEAVY DUTY
COATING	UNDIPPED
ESTIMATED WEIGHT	COVER: 112 LBS 51kg
MATERIAL SPECIFICATION COVER - GRAY IRON ASTM A48 CL35B	
OPEN AREA	N/A
✓ DESIGNATES MACHINED SURFACE	
DRAWN SMH	DATE 03/11/03
LAST REVISED GAD	DATE 02/02/07
REFERENCE INFORMATION 00240841	

DATE	REVISIONS

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GENERAL NOTES

1. INLET TYPE D IS NOT TO BE USED IN PAVED ROADWAYS THIS INLET SHALL BE USED ONLY ON PAVED ROADWAYS.
2. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
3. SEE PLANS FOR SIZE AND LOCATION OF PIPE.
4. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 710.0.
5. STANDARD INLET GRATES SHALL BE USED ON ALL TYPE D INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
6. CLOSE MESH GRATES ARE RECOMMENDED WHERE FEET TRAFFIC OR BICYCLE TRAFFIC ARE IN CLOSE PROXIMITY TO GRATE THIS GRATE IS NOT AREA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR SIDE PAVES.
7. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT. 6 IN. AND SHALL CONFORM WITH ASHRAE M 218.
8. REINFORCING BARS SHALL BE PROXY COATED AND REINFORCY #4 AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE CUT OR BEND BARS AROUND PIPE AS REQUIRED.
9. ALL METALS SHALL HAVE A 1/8 IN. SOLA METAL COATING WITH A 100% COVERAGE GRADES TO STREAM MESSAGE ON IT. THE METALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND IT SHALL BE FIRMLY ATTACHED TO THE INLETS SURFACE WITH A PERMANENT FASTENER.

ITEM	CONCRETE CUBIC YARDS	STEEL LBS.	CIRCULAR PIPE RANGE INSIDE DIA. IN. - "D"
1.0	1.5	127	18
1.1	1.7	149	18-24
1.2	1.9	177	18-30
1.3	2.0	199	18-36
1.4	2.2	228	18-42
1.5	2.3	257	18-48
1.6	2.5	293	18-54
1.7	2.6	328	18-60
1.8	2.8	371	18-66
1.9	2.9	413	18-72
2.0	3.1	464	18-78
2.1	3.2	513	18-84
2.2	3.4	570	18-90
2.3	3.5	625	18-96
2.4	3.7	688	18-102
2.5	3.8	759	18-108
2.6	4.0	837	18-114

GENERAL NOTES

1. FOR SIZE AND LOCATION OF PIPES, SEE THE PLANS.
2. ALL CONCRETE SHALL BE CLASS B.
3. FOOTINGS IN ROCK SHALL BE POURED OUT TO ROCK AND NOT FORMED IN ACCORDANCE WITH SUBSECTION 601.0(9)(D).
4. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4 IN.
5. HEADWALL SHALL HAVE REINFORCING STEEL INSTALLED IN A PATTERN SIMILAR TO STANDARD PLAN M-601-10.
6. THE COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE WORK UNLESS THE STEEL QUANTITIES ARE LISTED IN THE PLANS AND ARE PAID FOR SEPARATELY.

PIPE TYPE	PIPE DIAMETER (AND EQUIVALENT DIAMETER) (IN.)	
	18	24
CIRCULAR	RIGID	1.0 1.3 1.5 2.0 2.0 2.7 2.8 3.6 3.6 4.6 4.6 6.0
	FLEXIBLE	1.1 1.4 1.6 2.1 2.2 3.0 3.0 4.0 3.9 5.3 5.0 6.8
ELLIPTICAL	RIGID	2.5 x 14 3.0 x 19 3.8 x 24 4.5 x 29 5.5 x 34 6.0 x 38
	FLEXIBLE	0.9 1.2 1.3 1.6 1.7 2.2 2.3 2.9 2.9 3.7 3.5 4.4
ARCH	RIGID	2.2 x 13 2.9 x 18 3.6 x 22 4.3 x 27 5.0 x 31 5.8 x 36
	FLEXIBLE	0.9 1.3 1.4 1.9 1.8 2.4 2.4 3.4 3.2 4.4 3.4 5.0

LOW TAILWATER RIPRAP BASIN

NO. PIECES	DESCRIPTION	LENGTH	WEIGHT (LBS.)	WEIGHT (TONS)
4	3/4" x 7/8" BEAM	40"	370	206
4	3/4" x 1/2" FLAT	25"	238	25
4	3/4" x 1/2" FLAT	25"	235	24

CONCRETE AND METAL END SECTIONS

PIPE DIAMETER	F
18" - 30"	5"
36" - 42"	6"
48" - 60"	7"
72" - 84"	9"

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