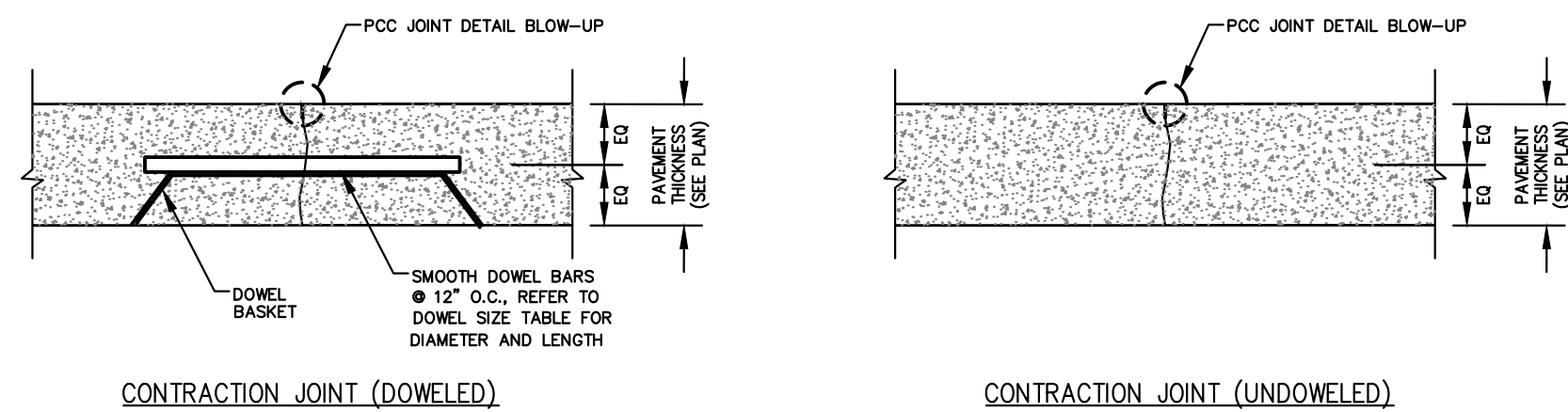
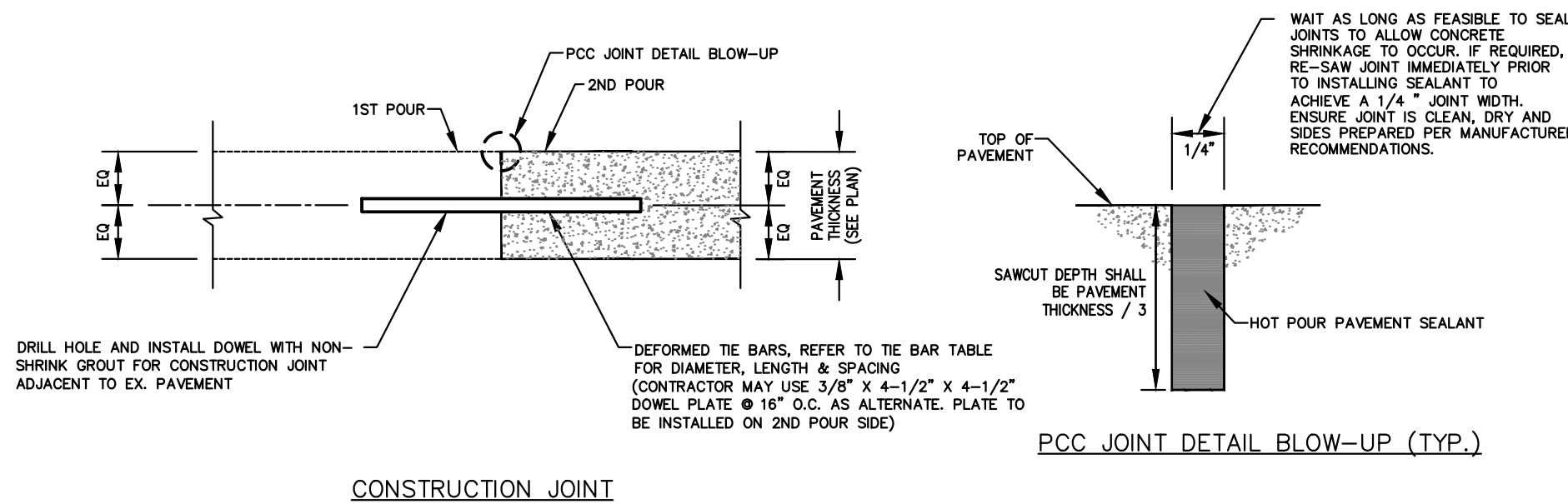


Dowel size*			
Slab depth, in. (mm)	Dowel diameter, in. (mm)	Dowel embedment, in. (mm)	Total dowel length, in. (mm) ²
5 (125)	5/8 (16)	5 (125)	12 (300)
6 (150)	3/4 (19)	6 (150)	14 (360)
7 (180)	7/8 (22)	6 (150)	14 (360)
8 (200)	1 (25)	6 (150)	14 (360)
9 (230)	1-1/8 (29)	7 (180)	16 (400)

*All dowels spaced at 12 in. (300 mm) centers.
²On each side of joint.

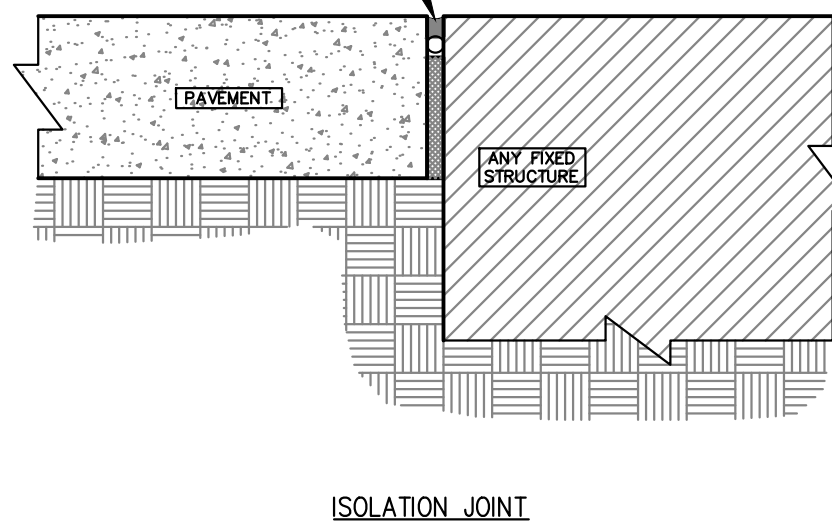
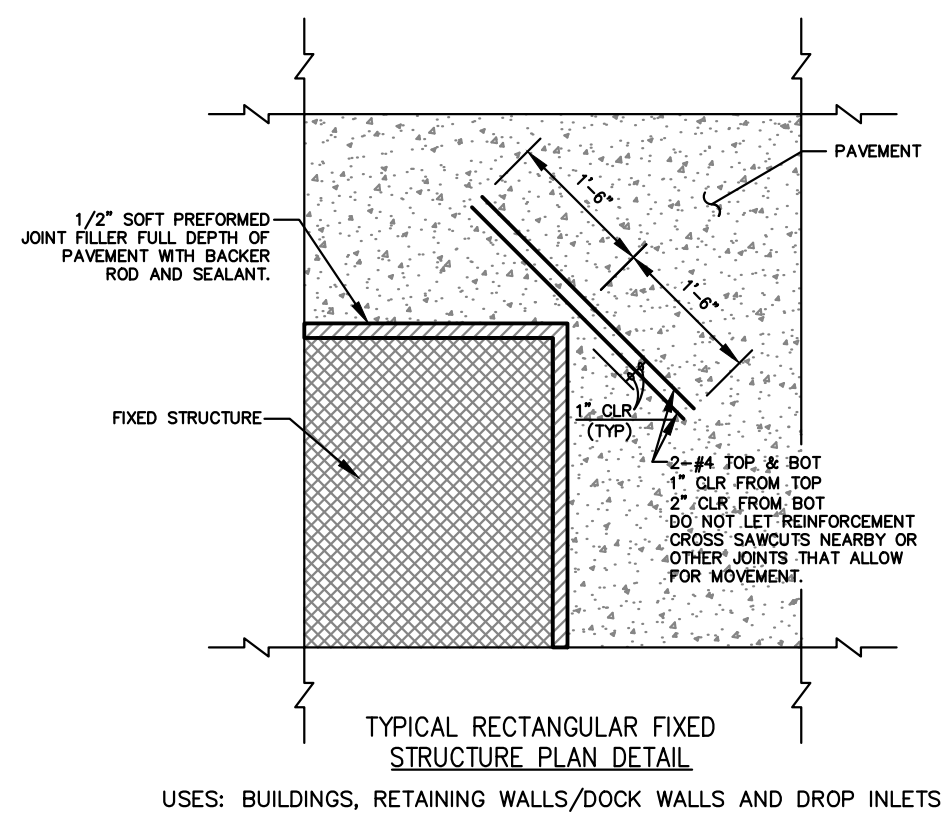
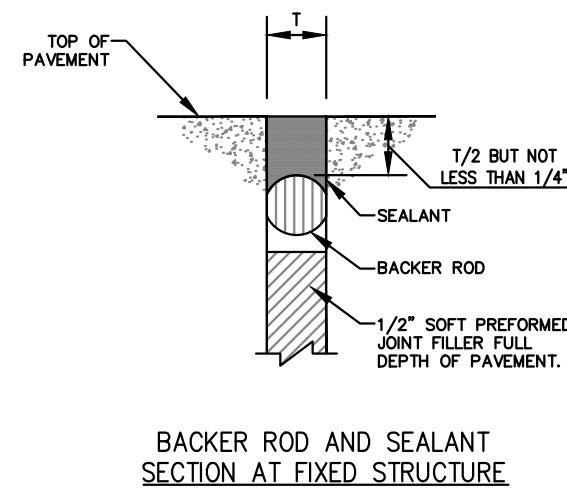
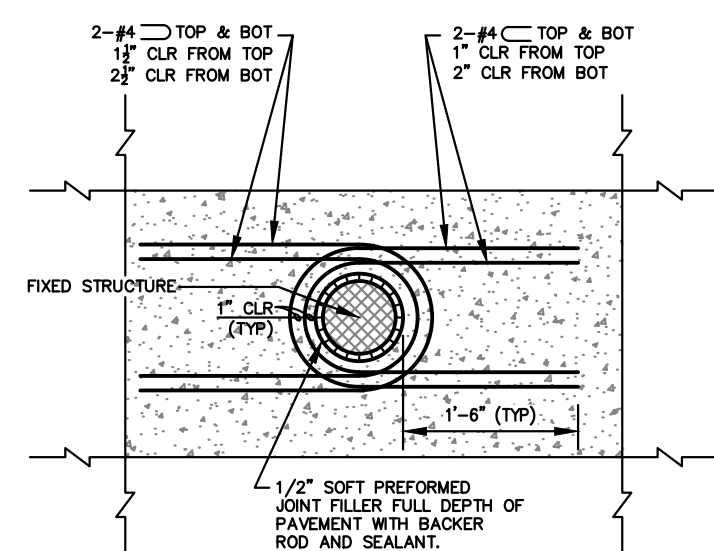
³Allowance made for joint openings and for minor errors in positioning dowels.

Tie bar dimensions		Tiebar spacing			
Slab depth, in. (mm)	Tiebar size, in. (mm)	Distance to nearest free edge or to nearest joint where movement can occur			
		10 ft. in. (mm)	12 ft. in. (mm)	14 ft. in. (mm)	24 ft. in. (mm)
5 (125)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	28 (710)
5-1/2 (140)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	25 (630)
6 (150)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	23 (580)
6-1/2 (165)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	21 (530)
7 (180)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	20 (510)
7-1/2 (190)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	18 (460)
8 (200)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	28 (710)	17 (430)
8-1/2 (215)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	36 (910)	16 (410)
9 (230)	1/2 x 30 (13 x 760)	36 (910)	36 (910)	—	24 (610)



CONCRETE JOINT DETAILS

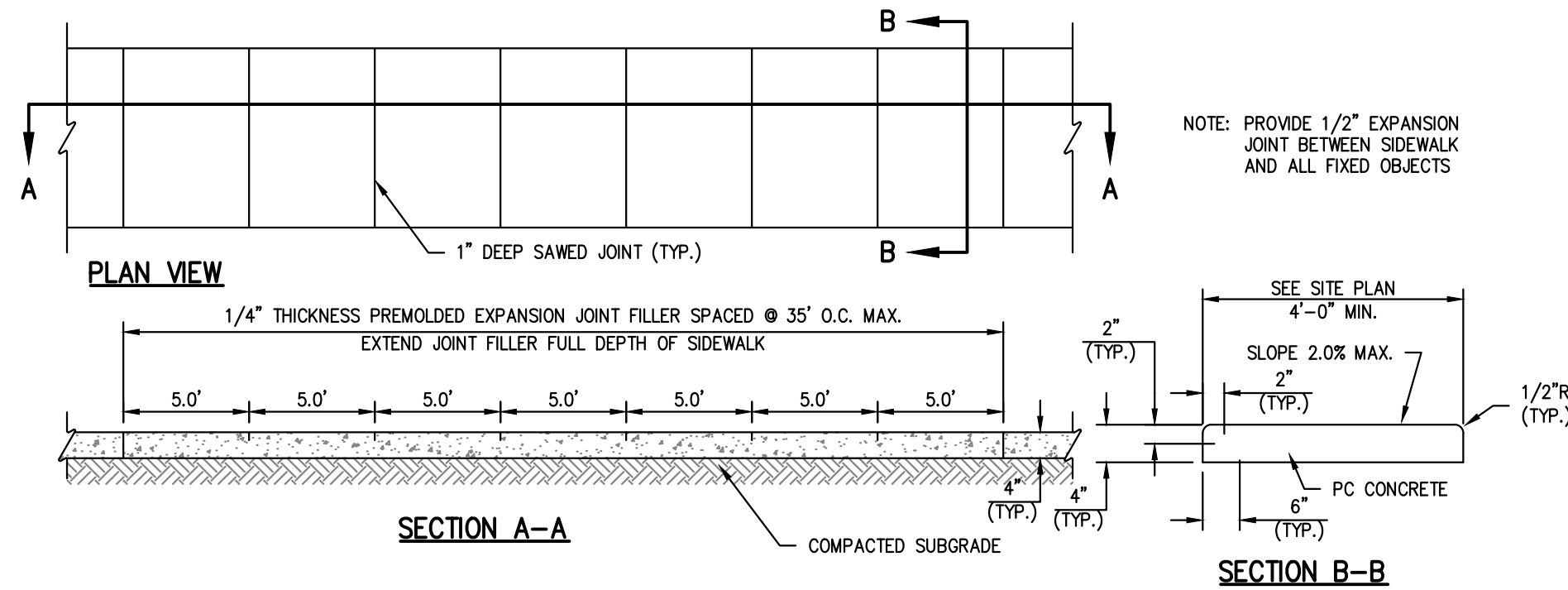
SCALE: N.T.S.



NOTES:
 ISOLATION JOINT TO BE USED FOR FIXED STRUCTURES SUCH AS BUILDINGS, RETAINING WALLS/DOCK WALLS, DROP INLETS, MANHOLES, LIGHT POLE BASES AND BOLLARDS.
 PAVEMENT IS NOT CONSIDERED A FIXED STRUCTURE.

ISOLATION JOINT DETAILS

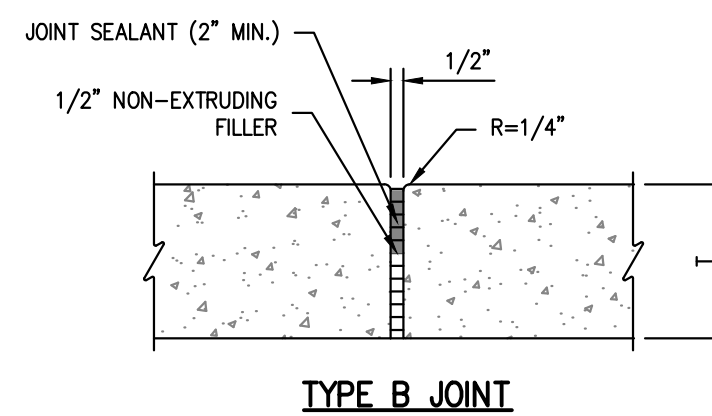
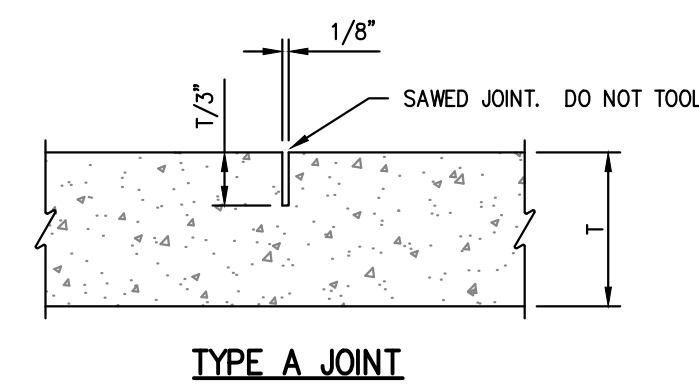
SCALE: N.T.S.



NOTE:
 1. USE KANSAS CITY MATERIALS METRO BOARD (KCMMB) MIX DESIGN SPECIFICATIONS FOR 4,000 P.S.I. AIR ENTRAINED CONCRETE FOR ALL PRIVATE SIDEWALKS.

PRIVATE CONCRETE SIDEWALKS (NON REINFORCED)

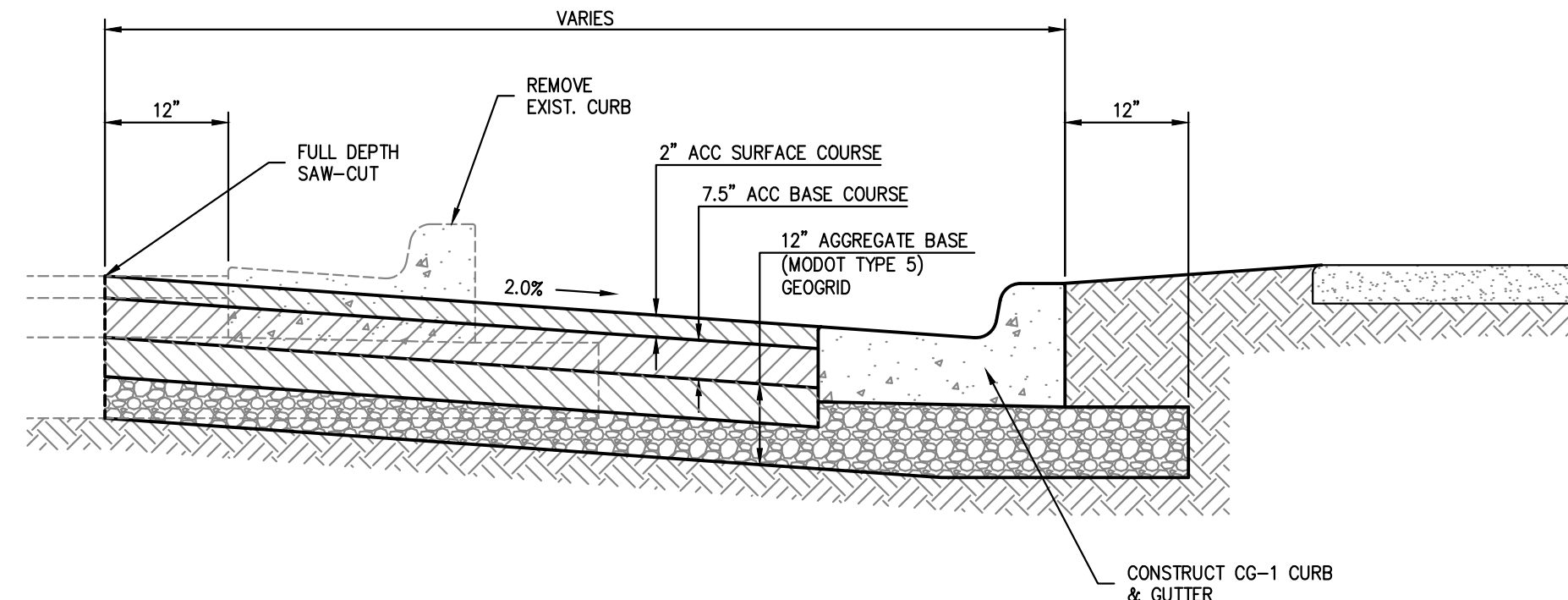
SCALE: N.T.S.



NOTE: TYPE A JOINTS SHALL NOT EXCEED 20 TIMES THE PAVEMENT THICKNESS (T).

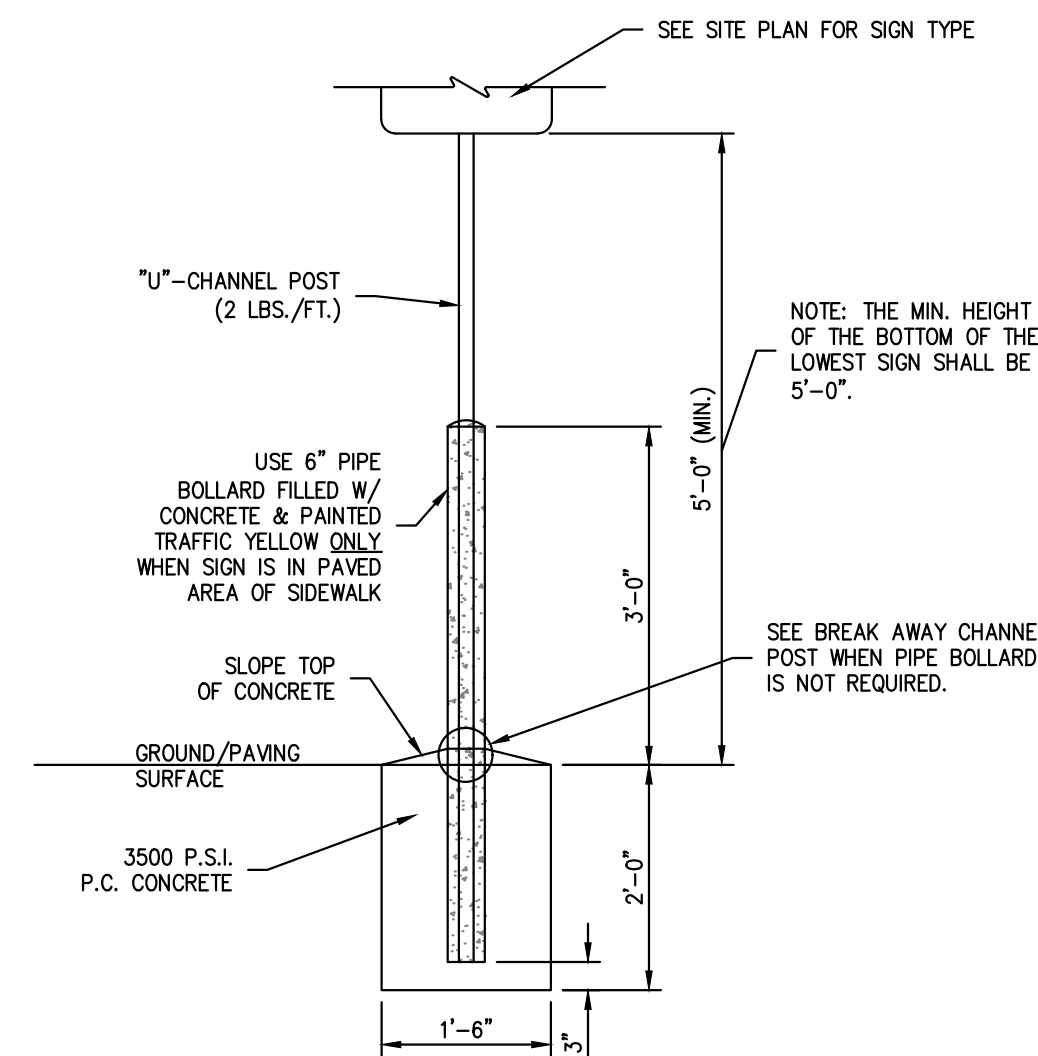
CONCRETE SIDEWALK JOINT DETAILS

SCALE: N.T.S.



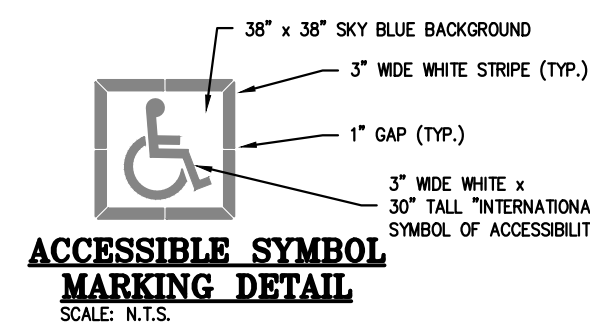
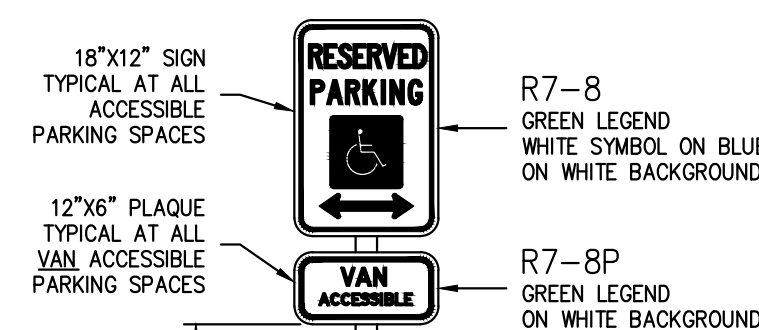
FULL DEPTH ASPHALT STREET WIDENING

SCALE: N.T.S.



SIGN BASE DETAIL IN SIDEWALK & PAVED AREAS

SCALE: N.T.S.



SCALE: N.T.S.

GENERAL NOTES:

- ALL PAVEMENT MARKINGS SHALL BE APPLIED BY A QUALIFIED CONTRACTOR HAVING A MINIMUM 3 YEARS EXPERIENCE IN TRAFFIC GRADE PAVEMENT MARKING APPLICATIONS.
- PAINT SHALL BE A NON-BLEEDING, QUICK-DRYING, ALKID PETROLEUM BASE PAINT SUITABLE FOR TRAFFIC-BEARING SURFACE AND SHALL MEET PS TTP-106 & MIXED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BEFORE APPLICATION.
- SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL & DUST.
- APPLY TWO (2) COATS OF PAINT AT MANUFACTURER RECOMMENDED RATE WITHOUT THE ADDITION OF THINNER, WITH A MAXIMUM OF 100 SQUARE FEET PER GALLON. APPLY WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STRAIGHT EDGES. AT SIDEWALK, CURBS AND CROSSWALKS USE A STRAIGHTEDGE TO ENSURE A UNIFORM, CLEAN, & STRAIGHT STROKE.
- THE FOLLOWING ITEMS SHALL BE PAINTED WITH THE COLORS NOTED BELOW:
 A. HANDICAP SYMBOLS: SEE DETAIL THIS SHEET.
 B. PARKING STALL STRIPING: WHITE.
- ACCESSIBLE PARKING SPACE DESIGN LAYOUT SHALL BE IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
- SEE SITE PLANS FOR COMPLETE PARKING LAYOUT.

ACCESSIBLE PARKING SPACE DETAIL

SCALE: N.T.S.

ACCESSIBLE SIGN DETAIL IN GRASS AREA

SCALE: N.T.S.



PHELPS ENGINEERING, INC.
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 Olathe, Kansas 66061
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 PE-2011010998
 01/27/2020
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PLANNING
 ENGINEERING
 IMPLEMENTATION



PAVEMENT DETAILS
 DOWNTOWN LEE'S SUMMIT APARTMENTS
 114 S.E. DOUGLAS STREET
 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

Project No.	171125	Drawn	SNH	Checked	DAF	Approved	DEU	Date	By	App.
Revisions:										
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