

2001 W. Broadway
Columbia, MO 65203
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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2024

**** PRELIMINARY ****
NOT FOR CONSTRUCTION

Ryan Fuller
MO PE-2016001250
December 9, 2024

REVISIONS

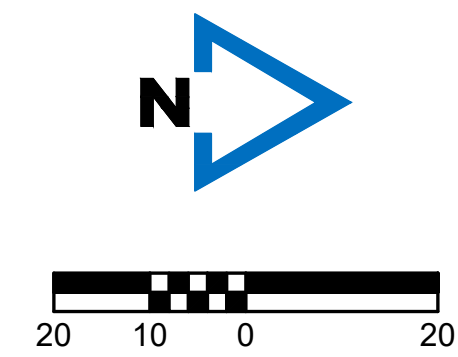
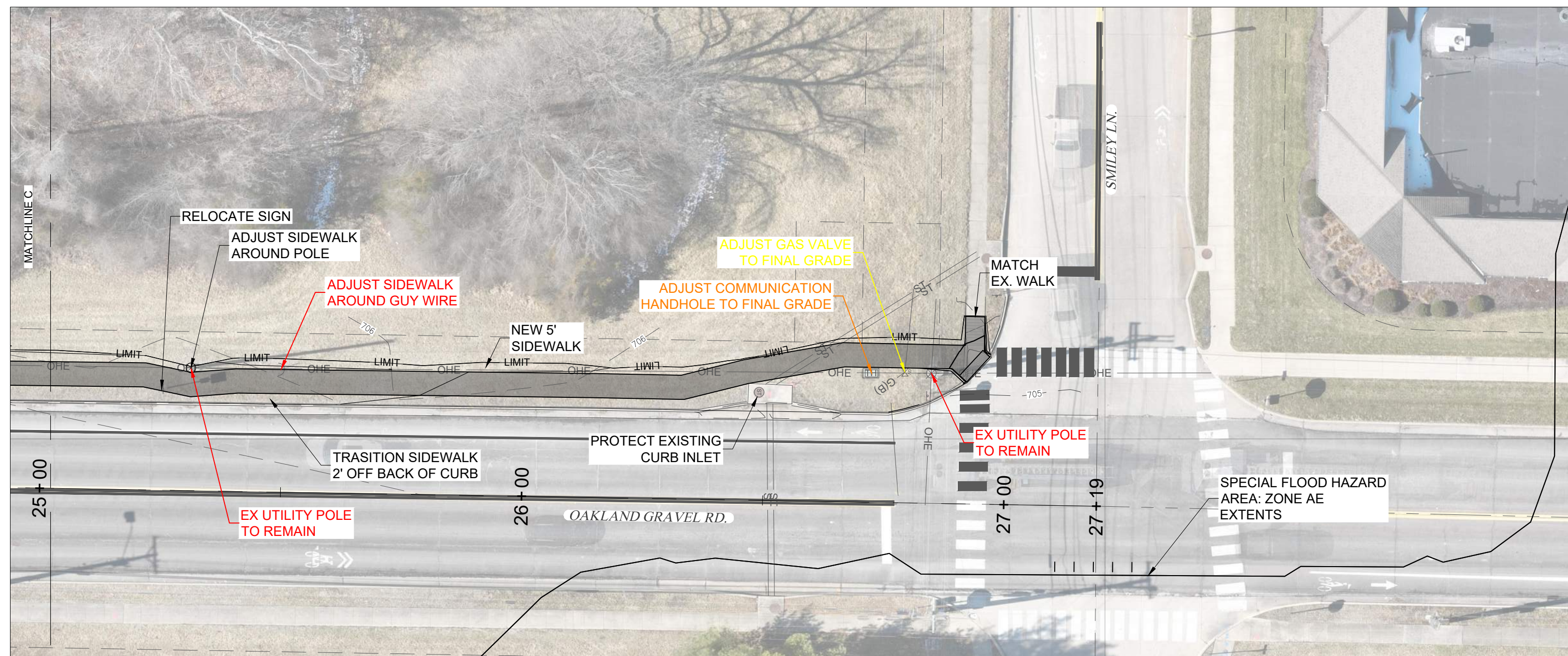
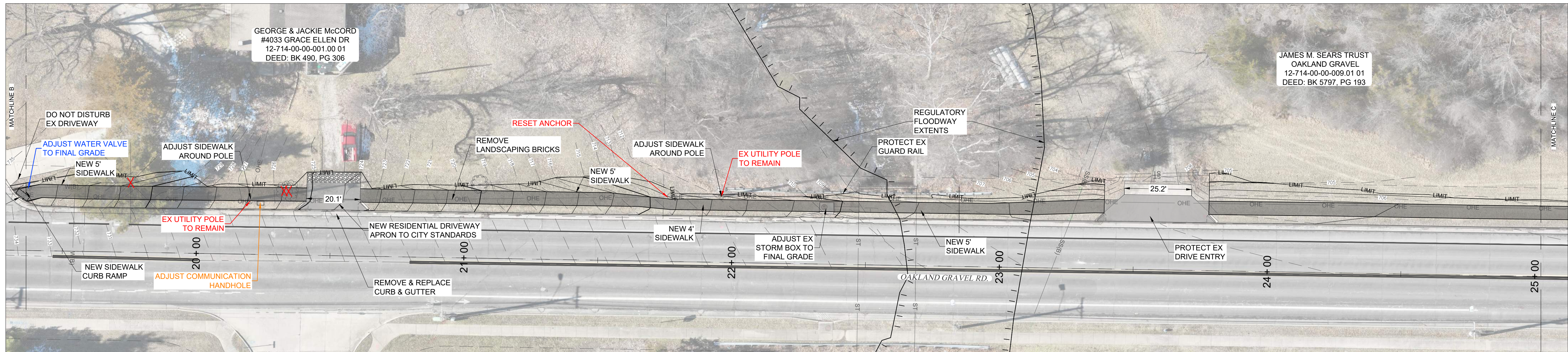
PROJECT INFO
2023002047

ENGINEER	DRAWN BY	CHECKED BY
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OAKLAND GRAVEL SIDEWALK
COLUMBIA, MISSOURI
TAP 2101513
PRELIMINARY DESIGN-PLAN 1

DRAWING NO.

2



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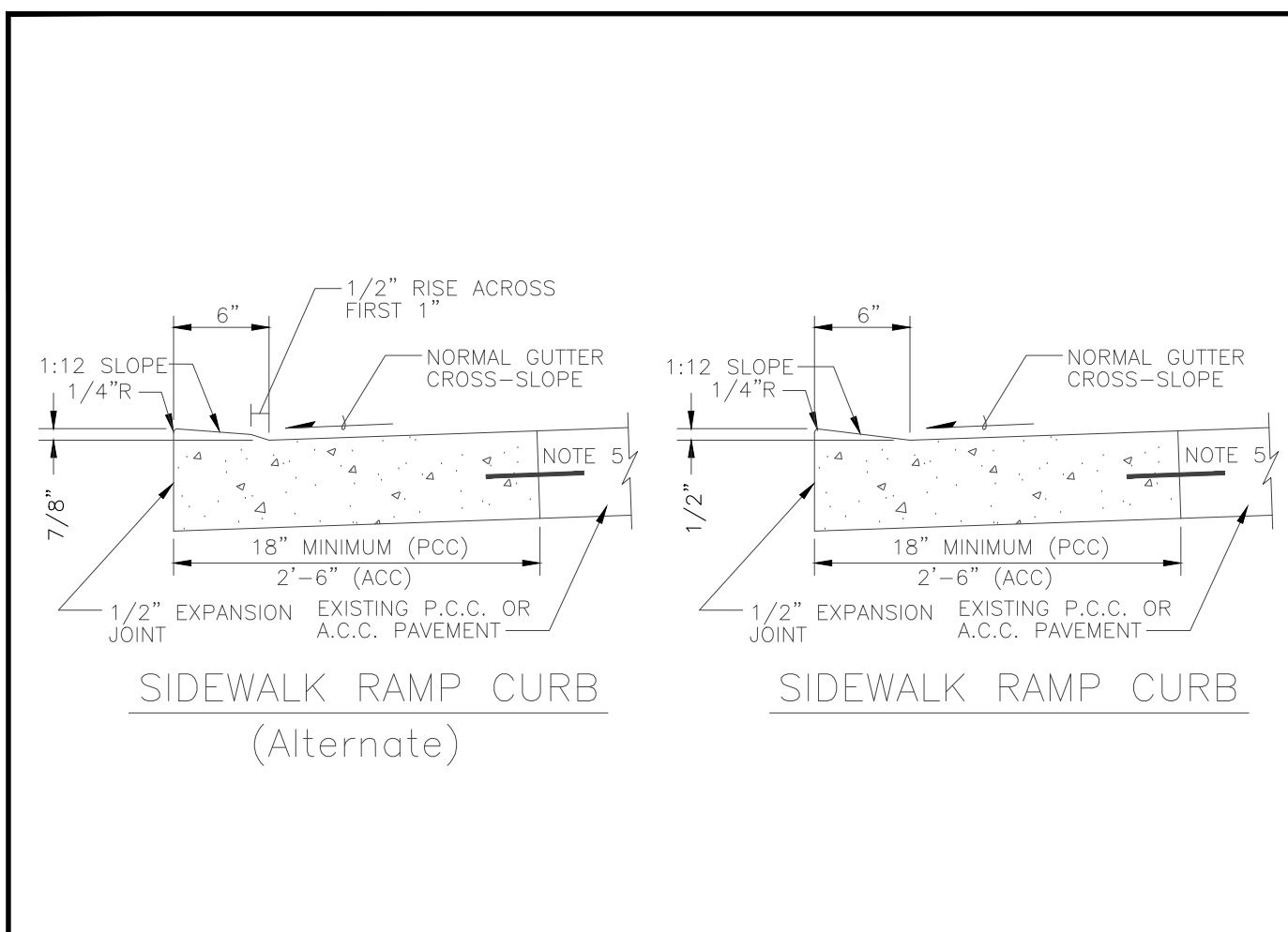
REVISIONS

PROJECT INFO
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ENGINEER	DRAWN BY	CHECKED BY
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**OAKLAND GRAVEL SIDEWALK
 COLUMBIA, MISSOURI
 TAP 2101513
 PRELIMINARY DESIGN-PLAN 2**

P:2023002047/04-DRAWINGS/08-EXHIBITS-CONCEPTS/2023002047 PRELIMINARY-CHECK PLANS.DWG



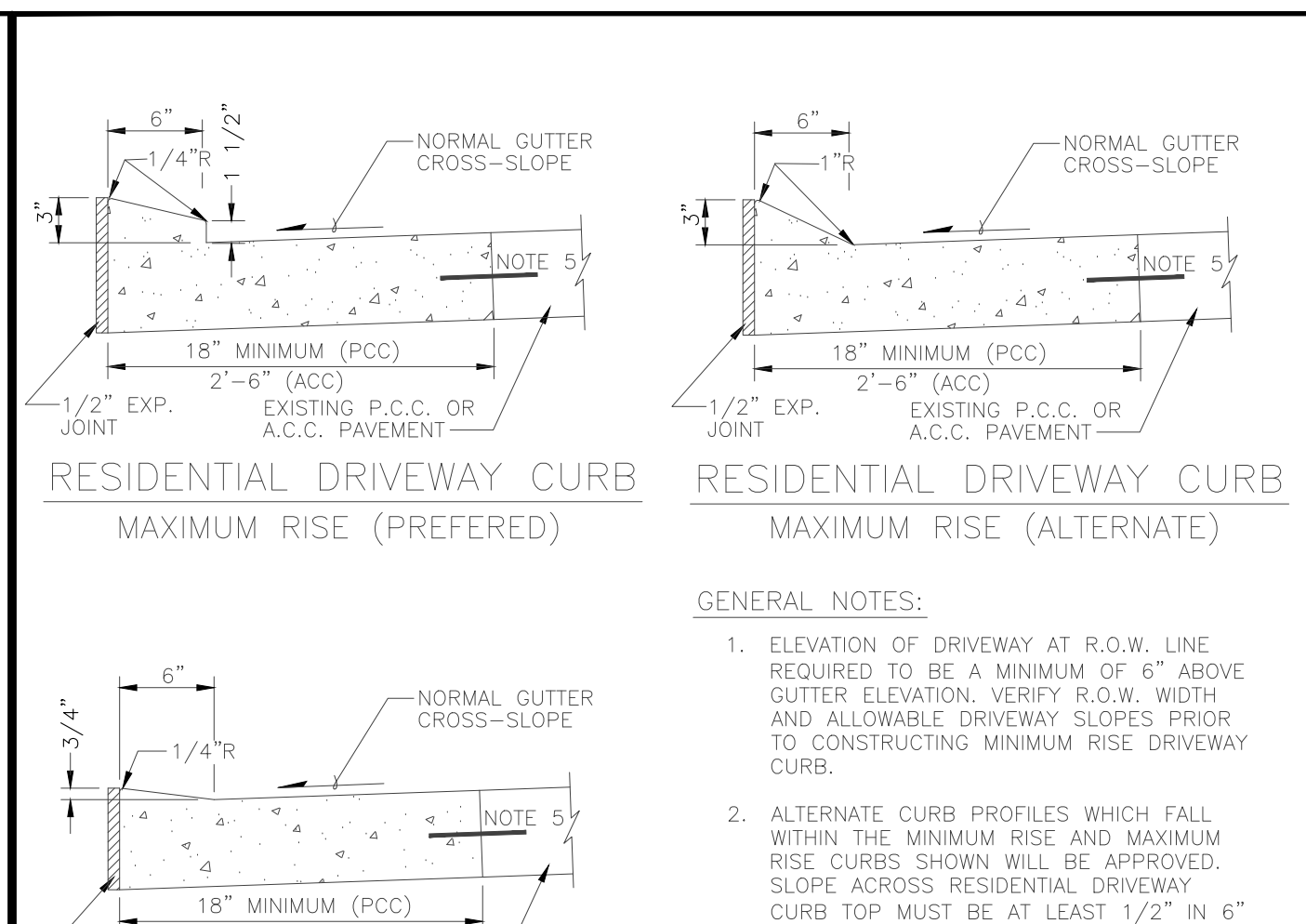
SIDWALK RAMP CURB (Alternate)

PCC PAVEMENT NOTES:

- CONCRETE SHALL BE MoDOT PAVEMENT CONCRETE.
- PAVEMENT THICKNESS SHALL MATCH EXISTING. BASE SHALL MATCH EXISTING.
- EXPANSION JOINTS AND CONTRACTION JOINTS SHALL BE PLACED AT LOCATIONS SIMILAR TO THE PAVEMENT WHICH WAS REMOVED.
- CURB EDGE SHALL BE TOOLED WITH 1/4" RADIUS
- WHERE EXISTING PAVEMENT IS P.C.C., LOW CURB REPLACEMENT SHALL BE DOWELLED INTO EXISTING. 12" LONG #4 BARS AT 24" CTR. ALL DRILLED DOWEL BARS SHALL BE EXPOXIED.

ACC PAVEMENT NOTES:

- CONCRETE SHALL BE MoDOT PAVEMENT CONCRETE.
- GUTTER THICKNESS SHALL MATCH EXISTING. BASE SHALL MATCH EXISTING.
- EXPANSION JOINTS AND CONTRACTION JOINTS SHALL BE PLACED AT LOCATIONS SIMILAR TO THE CURB AND GUTTER WHICH WAS REMOVED.
- CURB EDGE SHALL BE TOOLED WITH 1/4" RADIUS
- WHERE EXISTING PAVEMENT IS P.C.C., LOW CURB REPLACEMENT SHALL BE DOWELLED INTO EXISTING. 12" LONG #4 BARS AT 24" CTR. ALL DRILLED DOWEL BARS SHALL BE EXPOXIED.



RESIDENTIAL DRIVEWAY CURB MAXIMUM RISE (PREFERRED)

RESIDENTIAL DRIVEWAY CURB MAXIMUM RISE (ALTERNATE)

RESIDENTIAL DRIVEWAY CURB MINIMUM RISE

GENERAL NOTES:

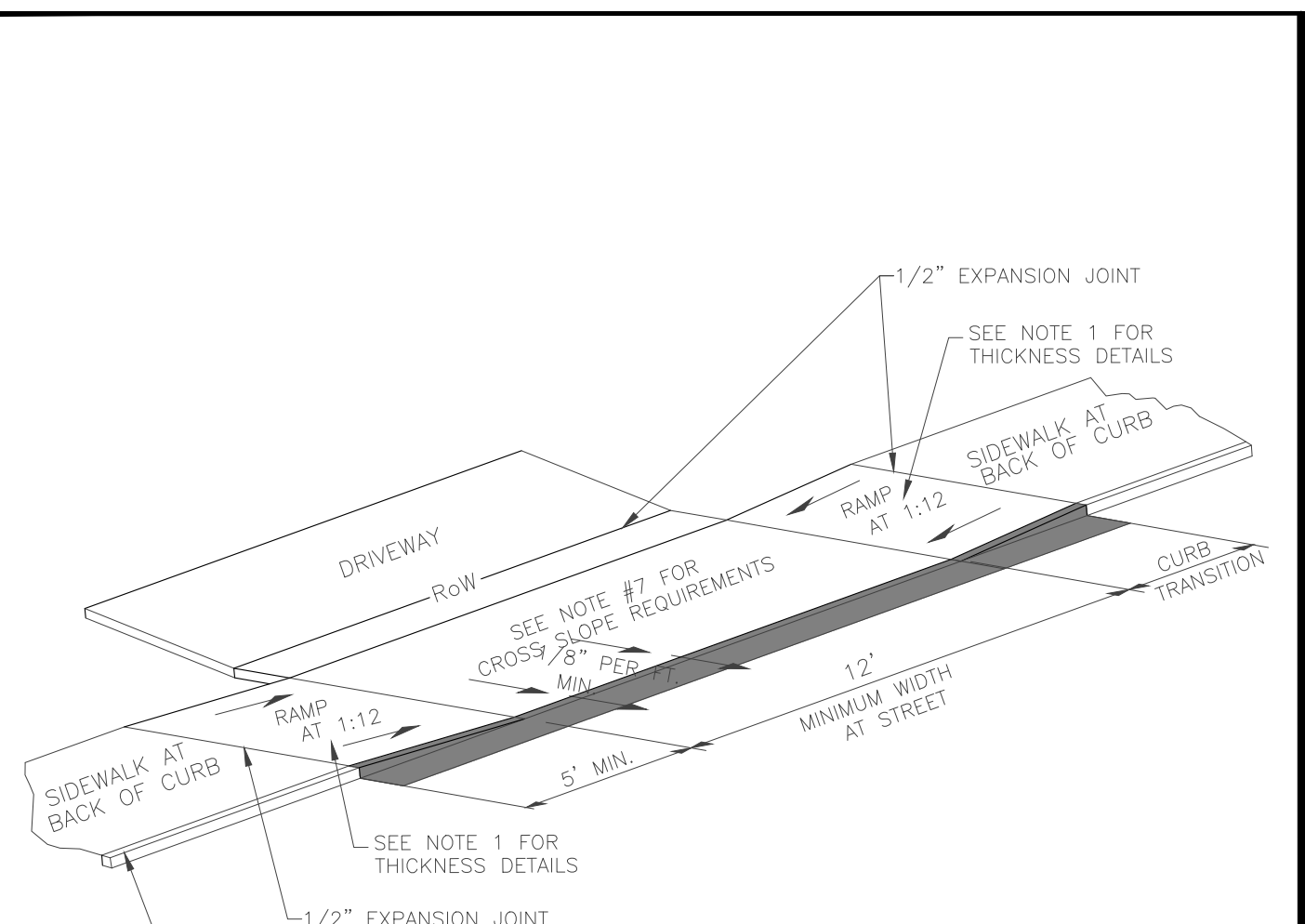
- ELEVATION OF DRIVEWAY AT R.O.W. LINE REQUIRED TO BE A MINIMUM OF 6" ABOVE GUTTER ELEVATION. VERIFY R.O.W. WIDTH AND ALLOWABLE DRIVEWAY SLOPES PRIOR TO CONSTRUCTING MINIMUM RISE DRIVEWAY CURB.
- ALTERNATE CURB PROFILES WHICH FALL WITHIN THE MINIMUM RISE AND MAXIMUM RISE CURBS SHOWN WILL BE APPROVED. SLOPE ACROSS RESIDENTIAL DRIVEWAY CURB TOP MUST BE AT LEAST 1/2" IN 6" TOWARD THE STREET.
- HORIZONTAL SAWING OF CURB IS ALLOWED AS AN ALTERNATIVE TO REMOVING AND REPLACING STANDARD CURB. HORIZONTAL SAWING MACHINE AND METHOD REQUIRES PRIOR APPROVAL. HORIZONTAL SAWING IS NOT ALLOWED ON CITY BID PROJECTS.

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- CONCRETE SHALL BE MoDOT PAVEMENT CONCRETE.
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- EXPANSION JOINTS AND CONTRACTION JOINTS SHALL BE PLACED AT LOCATIONS SIMILAR TO THE PAVEMENT WHICH WAS REMOVED.
- CURB EDGE SHALL BE TOOLED WITH 1/4" RADIUS
- WHERE EXISTING PAVEMENT IS P.C.C., LOW CURB REPLACEMENT SHALL BE DOWELLED INTO EXISTING. 12" LONG #4 BARS AT 24" CTR. ALL DRILLED DOWEL BARS SHALL BE EXPOXIED.

ACC PAVEMENT NOTES:

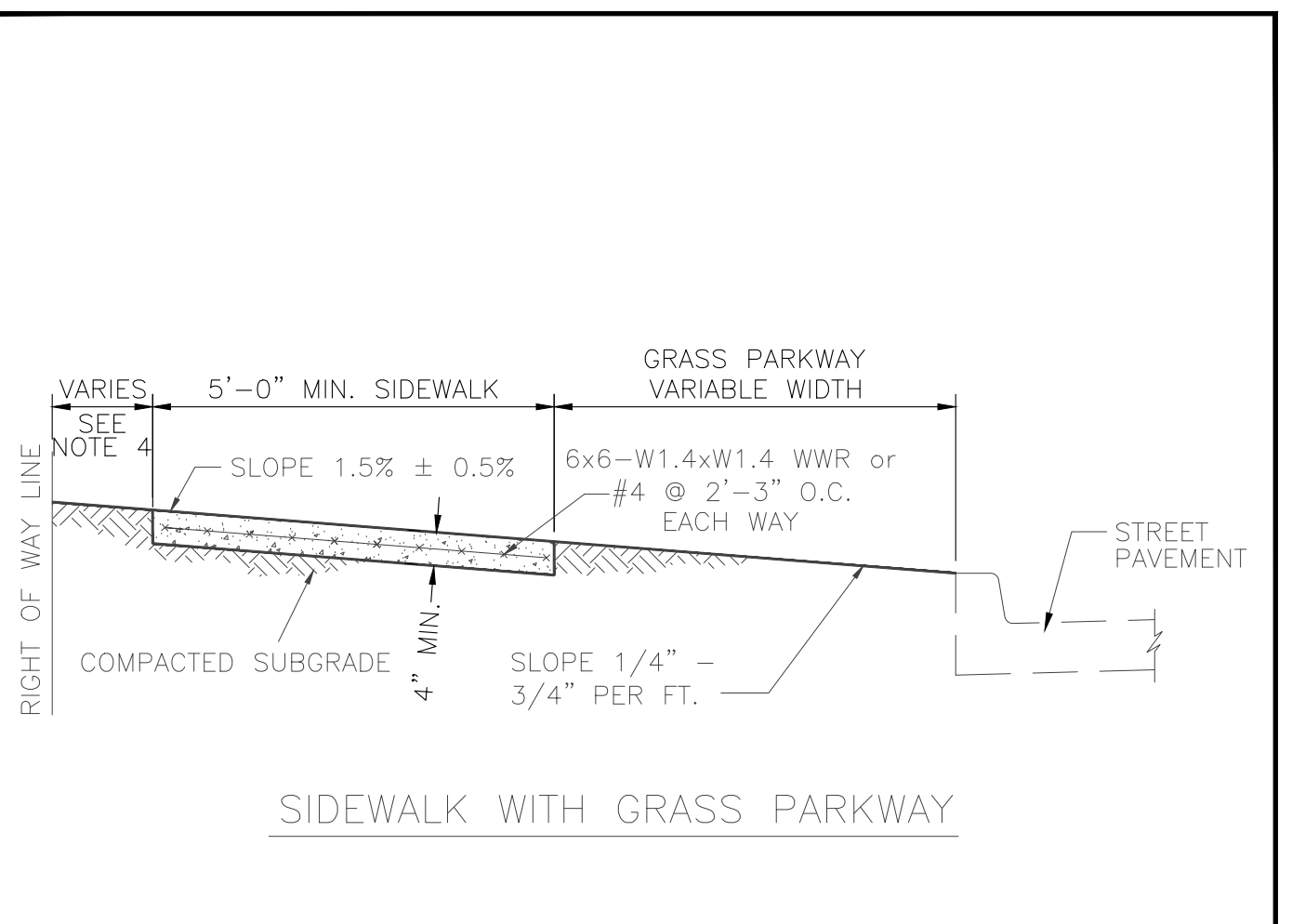
- CONCRETE SHALL BE MoDOT PAVEMENT CONCRETE.
- GUTTER THICKNESS SHALL MATCH EXISTING. BASE SHALL MATCH EXISTING.
- EXPANSION JOINTS AND CONTRACTION JOINTS SHALL BE PLACED AT LOCATIONS SIMILAR TO THE CURB AND GUTTER WHICH WAS REMOVED.
- CURB EDGE SHALL BE TOOLED WITH 1/4" RADIUS
- WHERE EXISTING PAVEMENT IS P.C.C., LOW CURB REPLACEMENT SHALL BE DOWELLED INTO EXISTING. 12" LONG #4 BARS AT 24" CTR. ALL DRILLED DOWEL BARS SHALL BE EXPOXIED.



SIDEWALK DRIVEWAY DETAIL Sidewalk at Back of Curb

NOTE:

- RAMP SHALL BE 6" THICK MoDOT PAVEMENT CONCRETE FOR RESIDENTIAL, 7" THICK MoDOT PAVEMENT CONCRETE FOR COMMERCIAL.
- EXPANSION JOINT SHALL BE 1/2" PREFORMED CORK OR BITUMINOUS EXPANSION JOINT MATERIAL.
- DRIVEWAY CROSS SLOPE SHALL NOT EXCEED 2.00%.
- ALL SLOPES ARE MEASURED FROM THE HORIZONTAL.
- REPLACE STANDARD CURB SECTION DRIVEWAY CURB SECTION - DETAIL 400.02 OR 400.03
- RAMP LENGTH IS DEPENDENT UPON 1:12 MAX. SLOPE AT 5' MINIMUM TRANSITION AREA. USE FLATTER WHEN POSSIBLE.
- A PEDESTRIAN ACCESSIBLE ROUTE SHALL BE PROVIDED THAT IS 4'-0" WIDE MINIMUM WITH A CROSS SLOPE OF 1.5% ± 0.5% (MAXIMUM CROSS SLOPE OF 2.0%).
- DRIVEWAY MAY BE REINFORCED AT OWNERS OPTION. ON CITY BID PROJECTS DO NOT REINFORCE.



SIDEWALK WITH GRASS PARKWAY

NOTE:

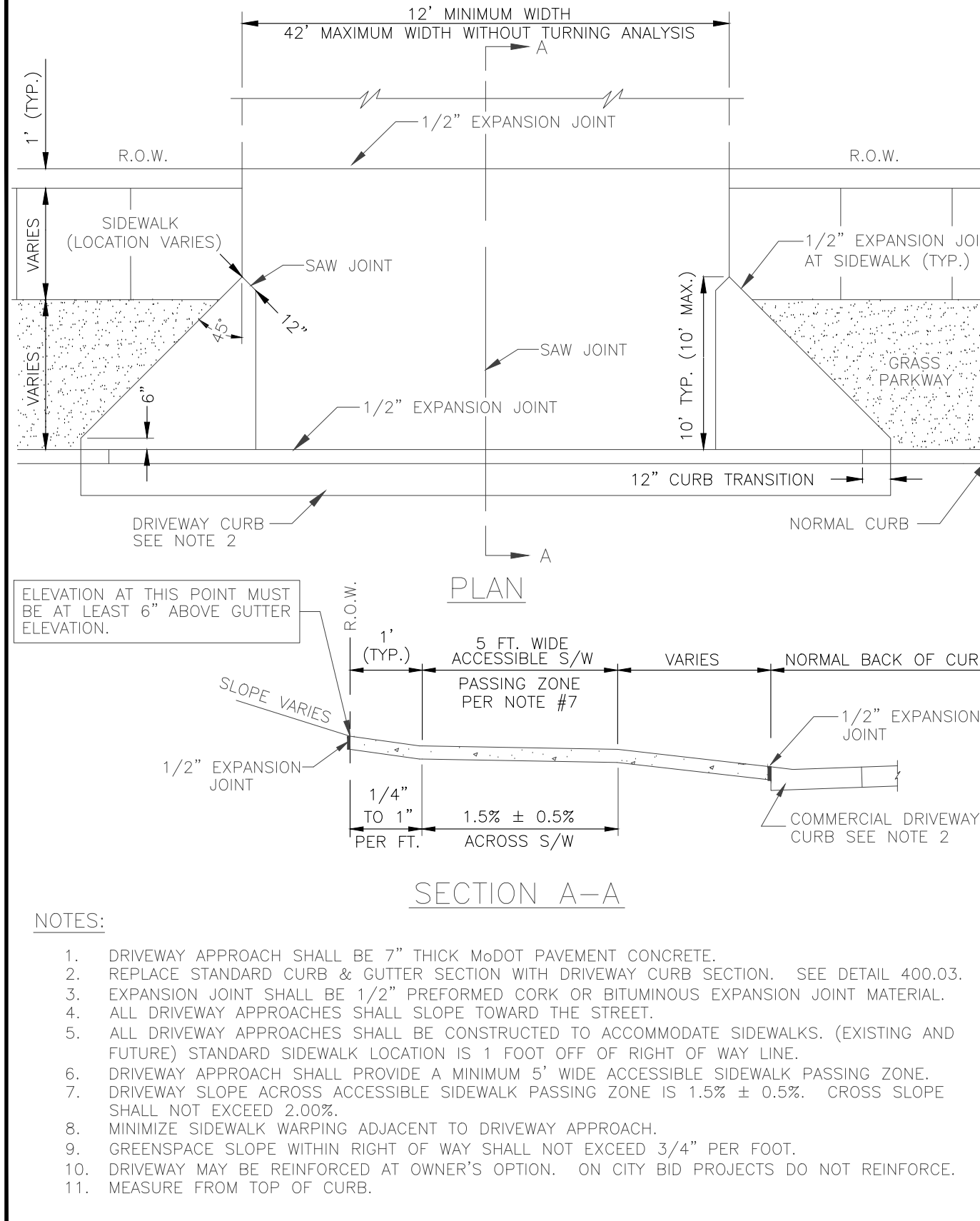
- SIDEWALK SHALL BE 4" THICK MoDOT PAVEMENT CONCRETE.
- INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS, STRUCTURES, DRIVEWAY APPROACHES, OR EVERY 100'.
- INSTALL TRANSVERSE SAW JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
- STANDARD SIDEWALK PLACEMENT IS 12" FROM RIGHT OF WAY LINE.
- NO STEEL TO BE PLACED THROUGH EXPANSION JOINT.
- SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.00%.
- DAMAGED SIDEWALK MUST BE PINNED TO EXISTING SIDEWALK.
- WWR OR REBAR SHALL BE ACCURATELY PLACED AND FIRMLY HELD IN PLACE DURING CONCRETE PLACEMENT BY APPROVED METHODS, SEE SECTION 238.9.

Approved	10/01/16	Date		CURB DETAILS (Sidewalk Ramp)	400.01
Revisions					

Approved	10/01/16	Date		CURB DETAILS (Residential Driveway)	400.02
Revisions					

Approved	07/01/20	Date		SIDEWALK DRIVEWAY DETAIL Sidewalk at Back of Curb	410.07
Revisions					

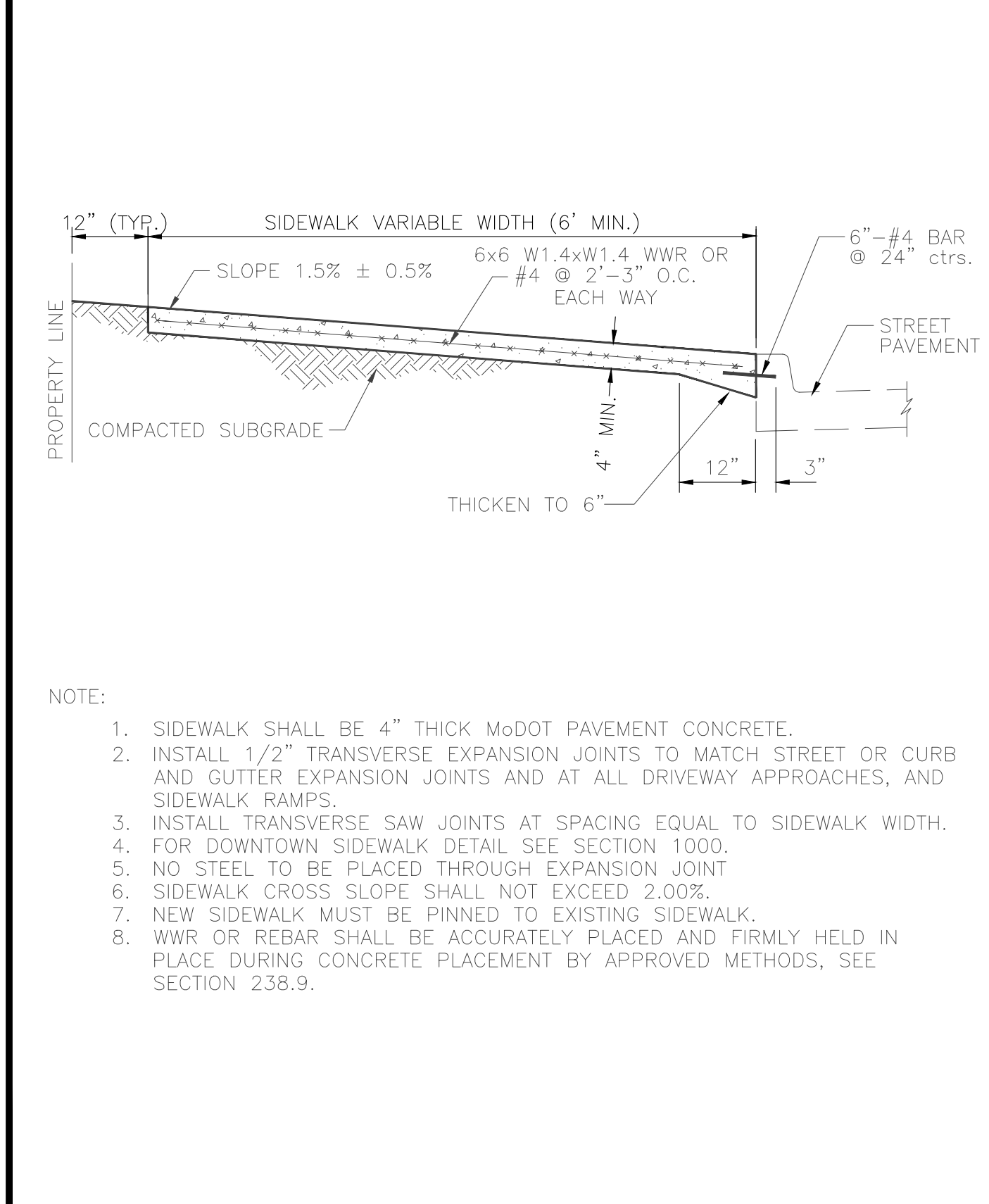
Approved	07/01/20	Date		SIDEWALK	420.01
Revisions					



DRIVE APPROACH (Commercial)

NOTE:

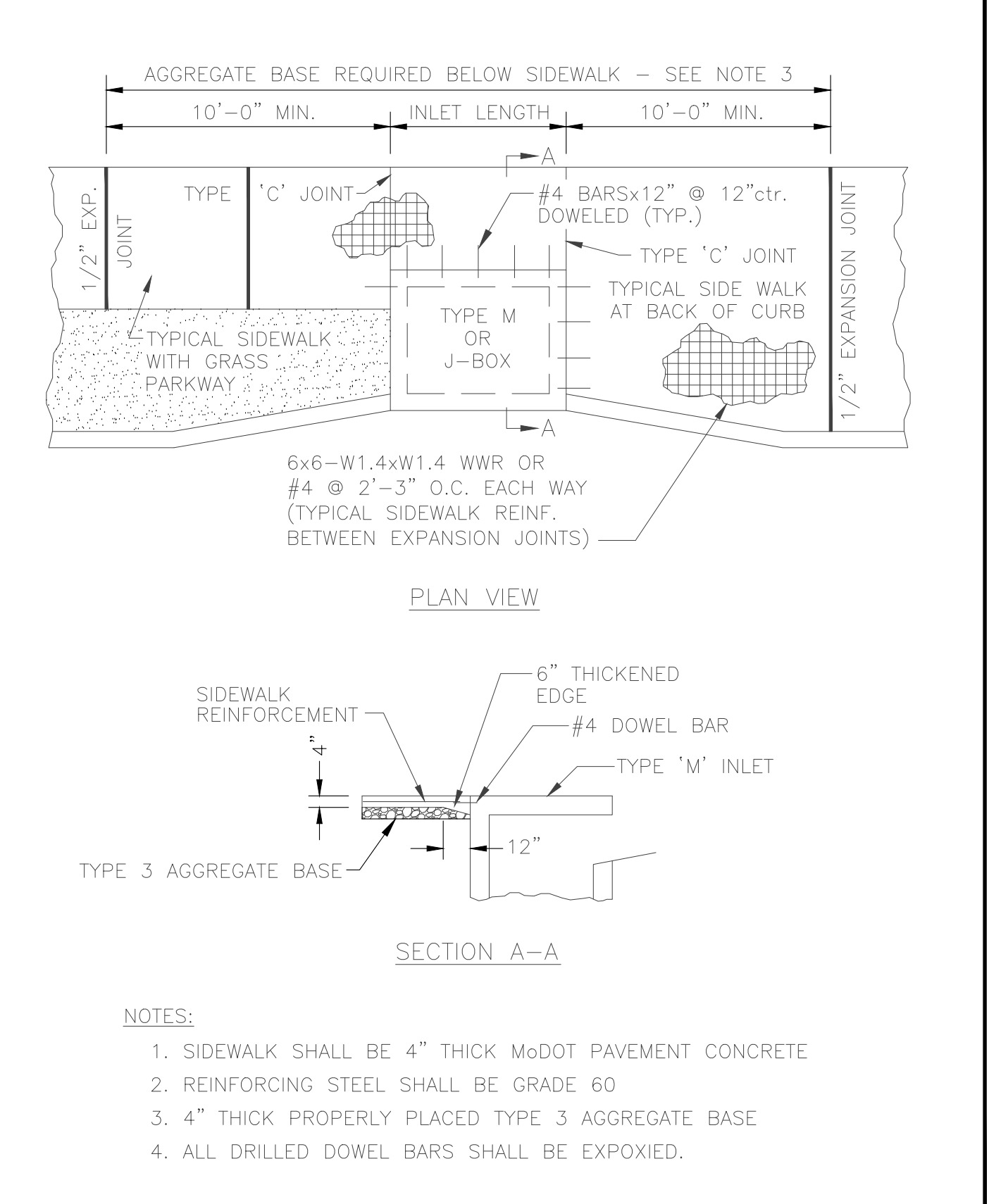
- DRIVEWAY APPROACH SHALL BE 7" THICK MoDOT PAVEMENT CONCRETE.
- REPLACE STANDARD CURB & GUTTER SECTION WITH DRIVEWAY CURB SECTION. SEE DETAIL 400.03.
- EXPANSION JOINT SHALL BE 1/2" PREFORMED CORK OR BITUMINOUS EXPANSION JOINT MATERIAL.
- ALL DRIVEWAY APPROACHES SHALL SLOPE TOWARD THE STREET.
- ALL DRIVEWAY APPROACHES SHALL BE CONSTRUCTED TO ACCOMMODATE SIDEWALKS. (EXISTING AND FUTURE) STANDARD SIDEWALK LOCATION IS 1 FOOT OFF OF RIGHT OF WAY LINE.
- DRIVEWAY APPROACH SHALL PROVIDE A MINIMUM 5' WIDE ACCESSIBLE SIDEWALK PASSING ZONE.
- DRIVEWAY SLOPE ACROSS ACCESSIBLE SIDEWALK PASSING ZONE IS 1.5% ± 0.5%. CROSS SLOPE SHALL NOT EXCEED 2.00%.
- MINIMIZE SIDEWALK WARPING ADJACENT TO DRIVEWAY APPROACH.
- GREENSPACE SLOPE WITHIN RIGHT OF WAY SHALL NOT EXCEED 3/4" PER FOOT.
- DRIVEWAY MAY BE REINFORCED AT OWNER'S OPTION. ON CITY BID PROJECTS DO NOT REINFORCE.
- MEASURE FROM TOP OF CURB.



SIDEWALK AT BACK OF CURB

NOTE:

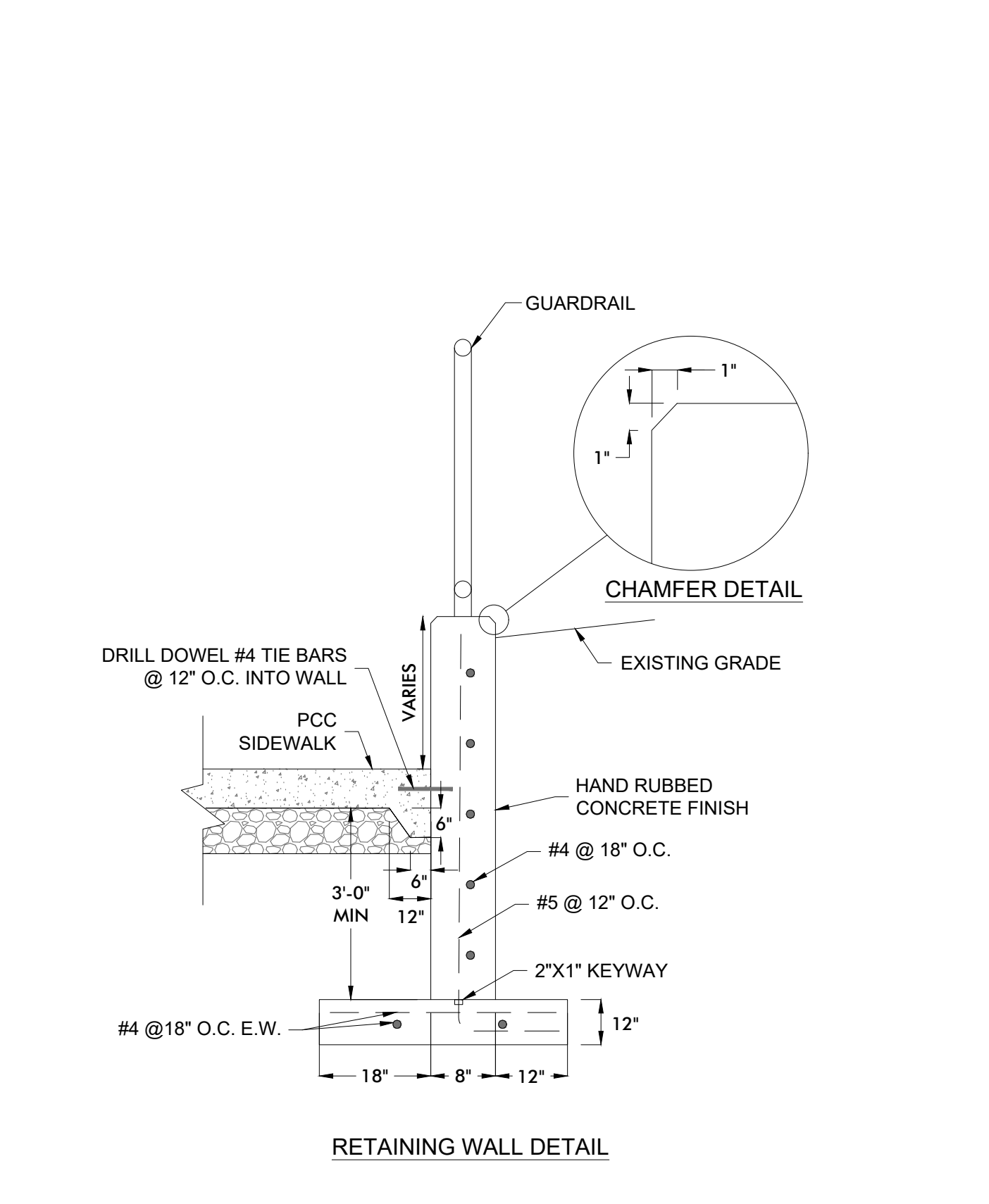
- SIDEWALK SHALL BE 4" THICK MoDOT PAVEMENT CONCRETE.
- INSTALL 1/2" TRANSVERSE EXPANSION JOINTS TO MATCH STREET OR CURB AND GUTTER EXPANSION JOINTS AND AT ALL DRIVEWAY APPROACHES, AND SIDEWALK RAMPS.
- INSTALL TRANSVERSE SAW JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH. FOR DOWNTOWN SIDEWALK DETAIL SEE SECTION 1000.
- NO STEEL TO BE PLACED THROUGH EXPANSION JOINT
- SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.00%.
- NEW SIDEWALK MUST BE PINNED TO EXISTING SIDEWALK.
- WWR OR REBAR SHALL BE ACCURATELY PLACED AND FIRMLY HELD IN PLACE DURING CONCRETE PLACEMENT BY APPROVED METHODS, SEE SECTION 238.9.



SIDEWALK REINFORCEMENT AT DRAINAGE STRUCTURE

NOTE:

- SIDEWALK SHALL BE 4" THICK MoDOT PAVEMENT CONCRETE
- REINFORCING STEEL SHALL BE GRADE 60
- 4" THICK PROPERLY PLACED TYPE 3 AGGREGATE BASE
- ALL DRILLED DOWEL BARS SHALL BE EXPOXIED.



Approved	07/01/20	Date		SIDEWALK REINFORCEMENT AT DRAINAGE STRUCTURE	420.03
Revisions					

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December 9, 2024

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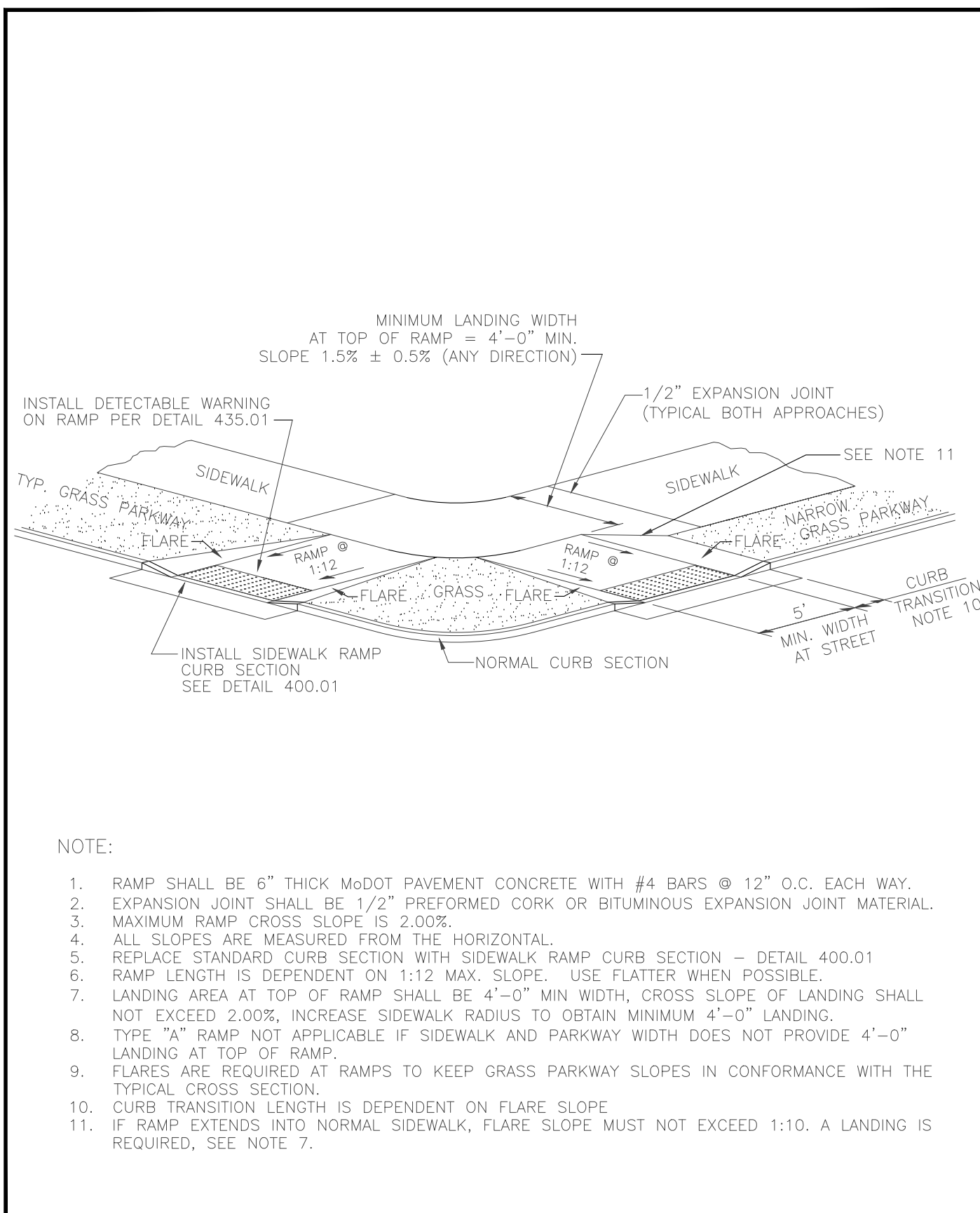
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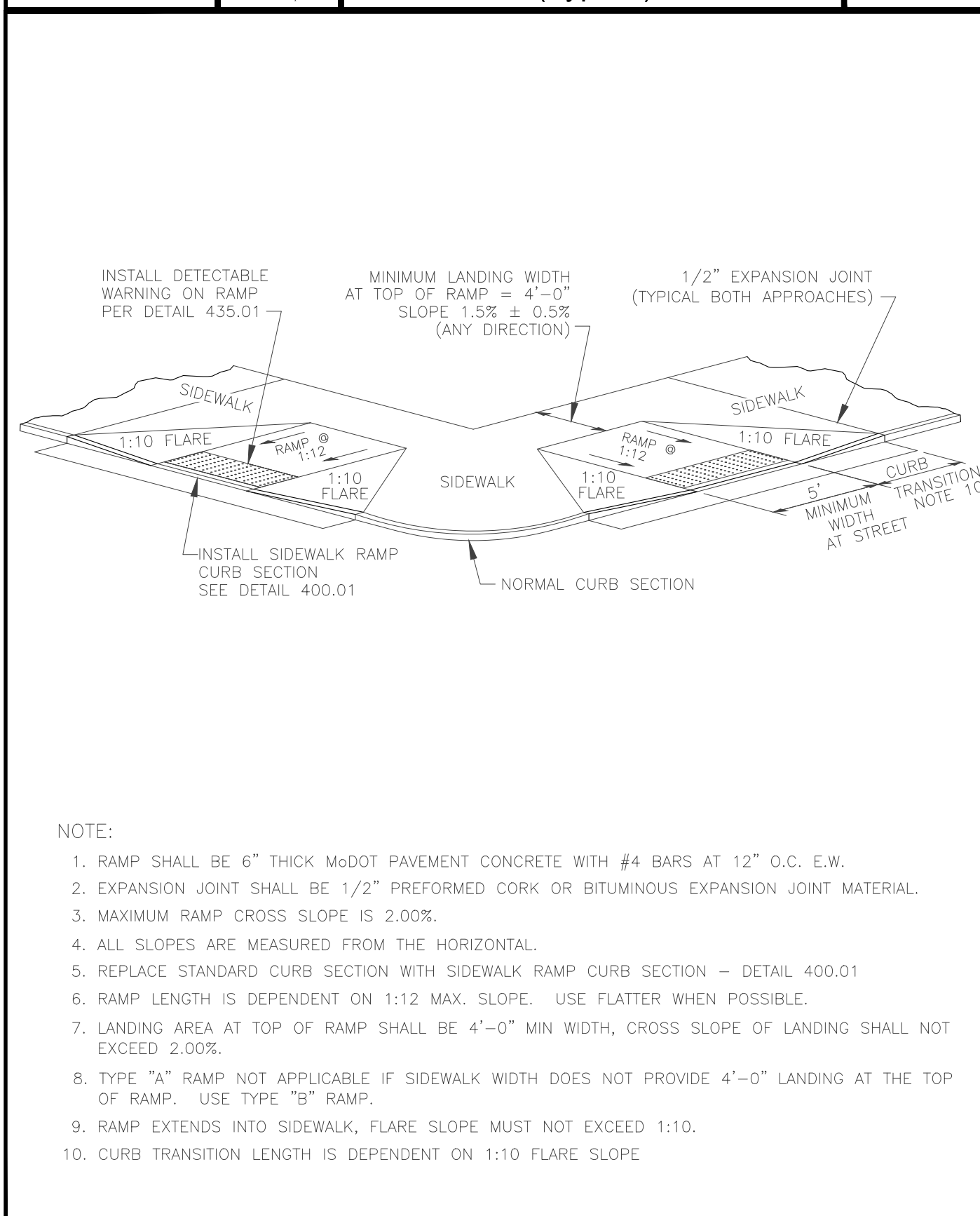
PRELIMINARY DESIGN-DETAILS 1

DRAWING NO. 4

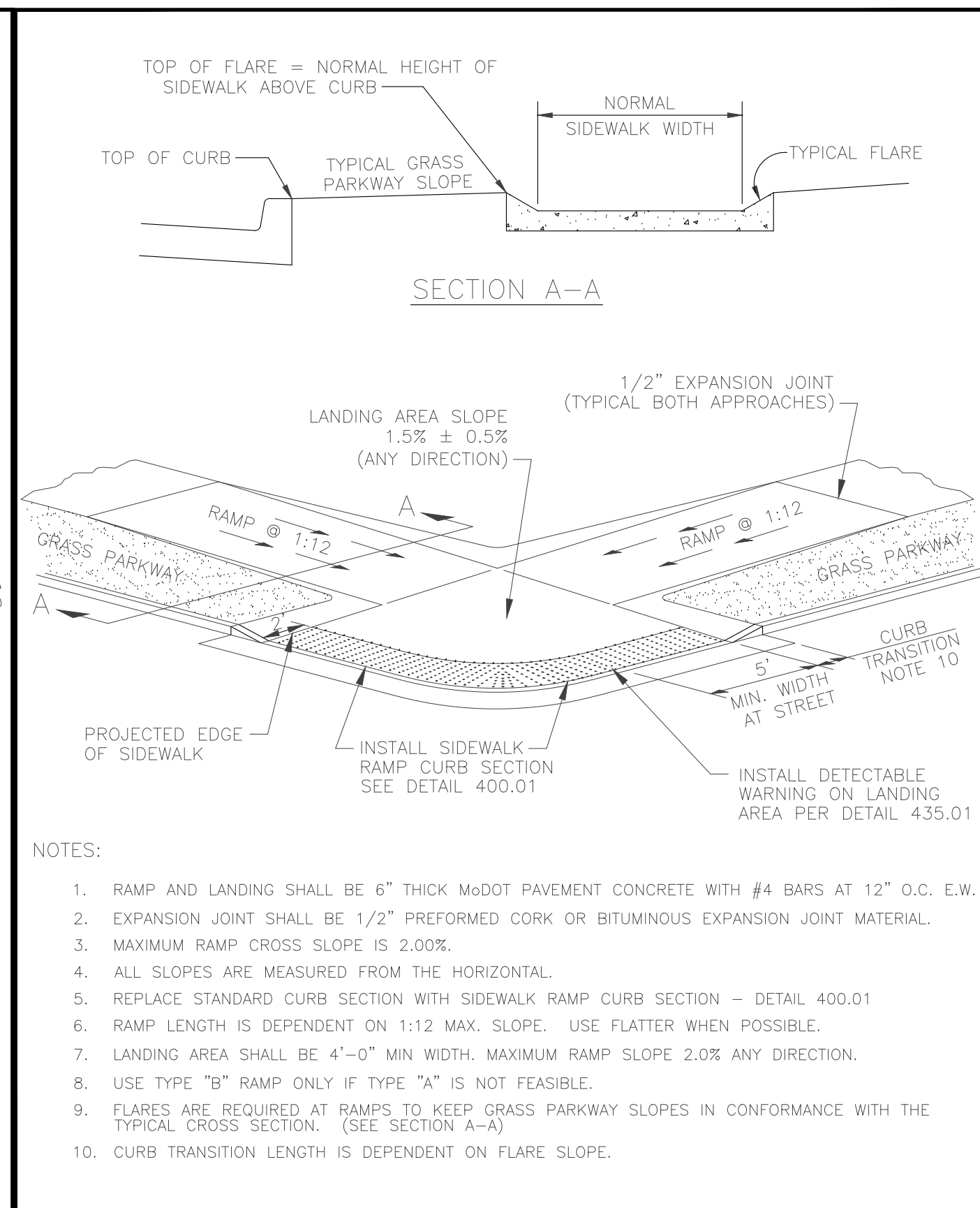
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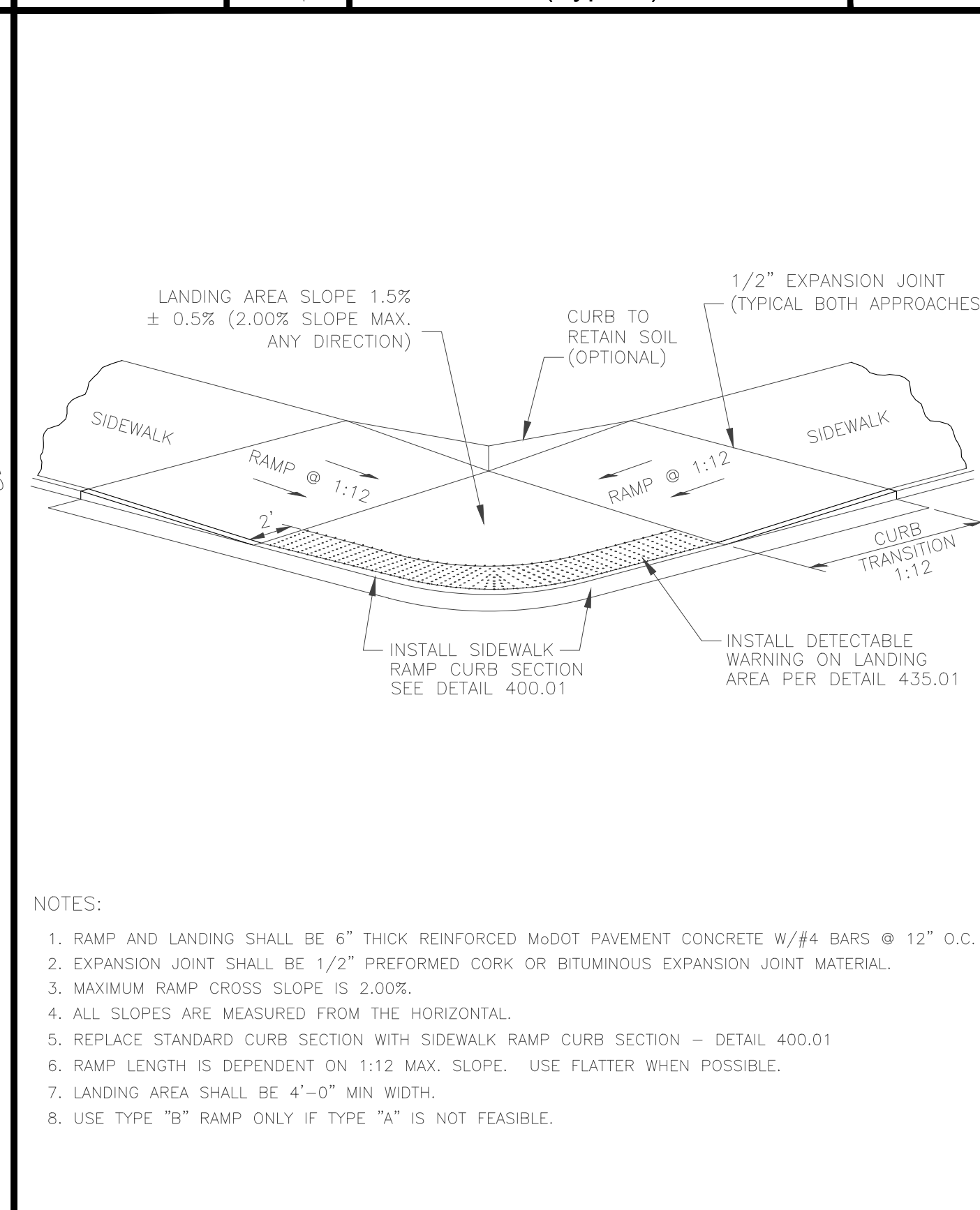
Approved	07/01/20		SIDEWALK RAMP Sidewalk with Grass Parkway (Type A)	430.01
Revisions				



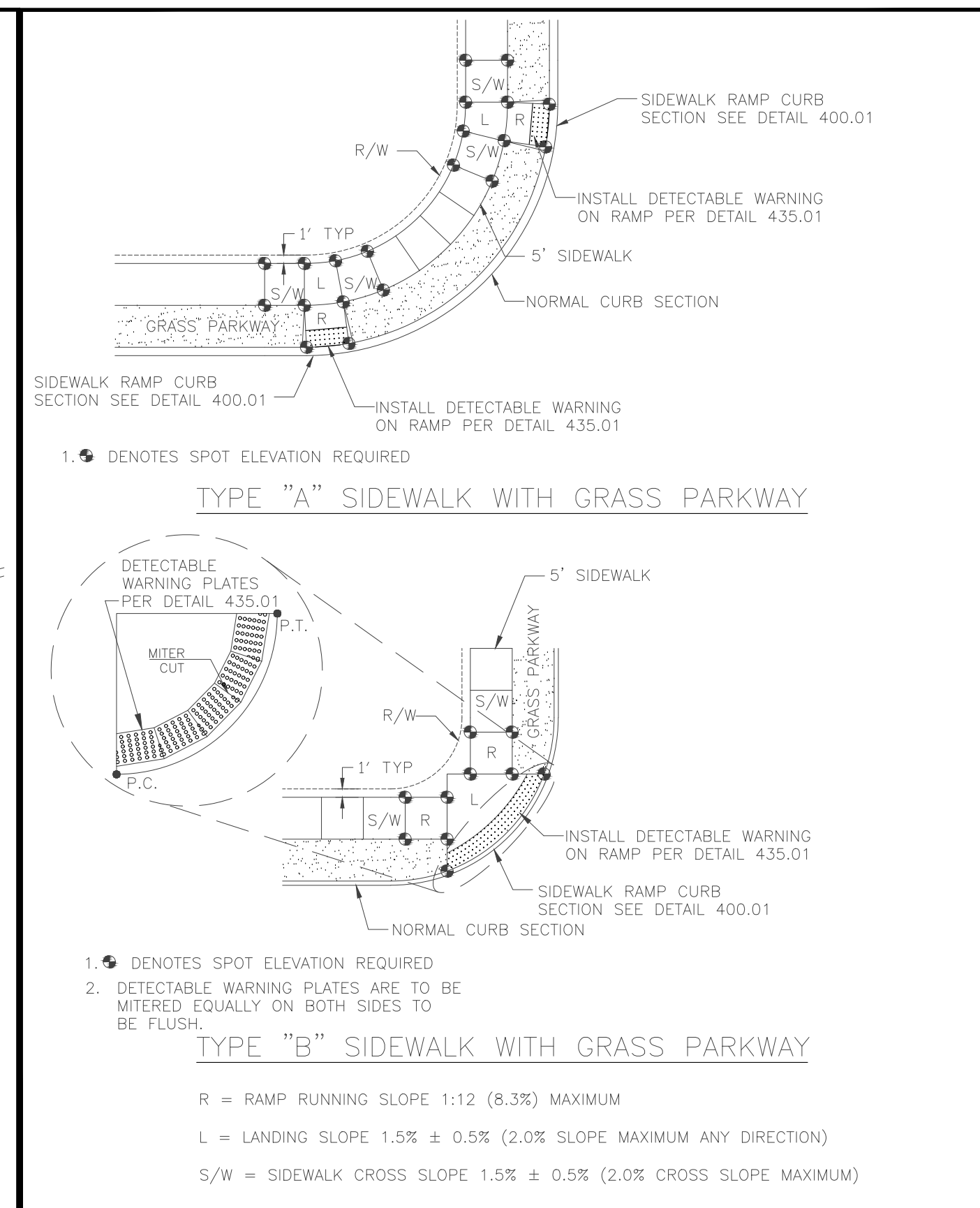
Approved	07/01/20		SIDEWALK RAMP Sidewalk at Back of Curb (Type A)	432.01
Revisions				



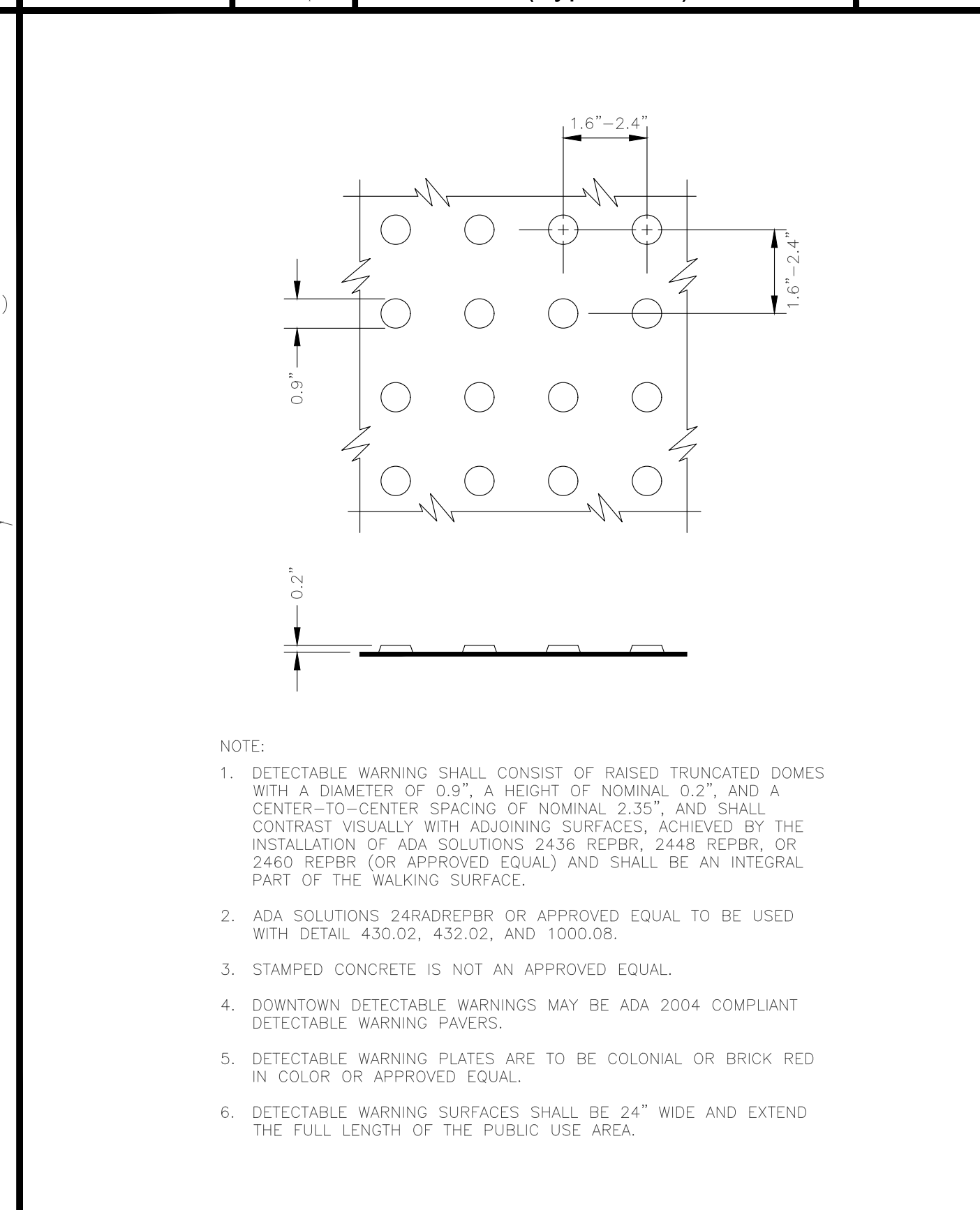
Approved	07/01/20		SIDEWALK RAMP Sidewalk with Grass Parkway (Type B)	430.02
Revisions				



Approved	07/01/20		SIDEWALK RAMP Sidewalk at Back of Curb (Type B)	432.02
Revisions				



Approved	07/01/20		SIDEWALK RAMP PLAN VIEW Sidewalk with Grass Parkway (Type A & B)	430.03
Revisions				



Approved	10/01/16		DETECTABLE WARNING	435.01
Revisions				

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ENGINEER **DRAWN BY** **CHECKED BY**
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OAKLAND GRAVEL SIDEWALK
COLUMBIA, MISSOURI
TAP 2101513
PRELIMINARY DESIGN-DETAILS 2

DRAWING NO.
5

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