

PRELIMINARY DESIGN CHECK

VANDIVER ROAD SIDEWALK

TAP 2101514

EXISTING SURVEY LEGEND

LINWORK

SS	SANITARY SEWER	949	INTERMEDIATE CONTOUR
FW	SANITARY SEWER FORCE MAIN	950	INDEX CONTOUR
ST	STORM SEWER	PL	PROPERTY LINE
W	WATER	ROW	RIGHT OF WAY
E	UNDERGROUND ELECTRIC	---	SECTION LINE
OE	OVERHEAD ELECTRIC	ESMT	EASEMENT
C	UNDERGROUND COMMUNICATIONS	0-0	GUARD RAIL
OE	OVERHEAD COMMUNICATIONS	X	FIELD FENCE
T	UNDERGROUND TELEPHONE	0	CHAIN LINK FENCE
OT	OVERHEAD TELEPHONE	0	WOODEN FENCE
FO	UNDERGROUND FIBER OPTIC	+++++	SILT FENCE
OF	OVERHEAD FIBER OPTIC	AG	AGRICULTURE LINE
TV	UNDERGROUND TV/CABLE	~~~~~	EDGE OF TREES
OTV	OVERHEAD TV/CABLE	---	LIMITS OF DISTURBANCE
G	GAS	---	ROAD CENTERLINE
TR	TRAFFIC	---	WATERWAY FLOWLINE

UTILITY QUALITY LEVELS:

UTILITY QUALITY LEVELS ARE BASED ON THE CIASCE 38-02 STANDARD.

UTILITY QUALITY LEVEL A:

PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES

UTILITY QUALITY LEVEL B:

INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

UTILITY QUALITY LEVEL C:

INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

UTILITY QUALITY LEVEL D:

INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

ADDITIONALLY IN THE CASE OF MULTIPLE OWNERS OF THE SAME UTILITY TYPE SAID UTILITIES WILL BE ABBREVIATED WITH AN OWNER NUMBER (1, 2, 3, ETC) AND REFERENCED IN THE IOWA ONE CALL UTILITY INFORMATION SECTION.

EXAMPLES:

C1(B)	UNDERGROUND COMMUNICATIONS- OWNER 1
C2(B)	UNDERGROUND COMMUNICATIONS- OWNER 2

TYPICAL HATCHING

SIDEWALK (MATERIAL NOTED)	PERMEABLE PAVER
CONCRETE	WATER
ASPHALT	BUILDING OUTLINE
RIP RAP	SAND
GRAVEL	MULCH LANDSCAPING
GRASS	ROCK LANDSCAPING

ABBREVIATIONS

CP	CONTROL POINT	CI	CAST IRON PIPE
BM	BENCHMARK	DI	DUCTILE IRON PIPE
ROW	RIGHT-OF-WAY	CMP	CORRUGATED METAL PIPE
GU	GUTTER	HDPE	HIGH-DENSITY POLYETHYLENE PIPE
CL	CENTERLINE	VCP	VITRIFIED CLAY PIPE
ASPH	ASPHALT	PVC	POLYVINYL CHLORIDE PIPE
PCC	CONCRETE	RCP	REINFORCED CONCRETE PIPE
FL	FLOWLINE	UNK	UNKNOWN
RM	ELEVATION AT RIM	DH	DRILL HOLE
W/	WITH	RBC	REBAR W/ PLASTIC CAP
TYP	TYPICAL	IPC	IRON PIPE W/ PLASTIC CAP
FND	FOUND	MON	MONUMENT
FF	FINISHED FLOOR	PK	PK NAIL

ONE CALL UTILITY INFORMATION:

LOCATE TICKET #S: 240440288, 240440288

CALL OR CLICK 3 DAYS BEFORE YOU DIG!

1-800-DIG-RITE OR 811

MISSOURI ONE CALL SYSTEM

www.mo1call.com

ELECTRIC

AC	AIR CONDITIONING UNIT
BB	BREAKER BOX
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC PEDESTAL
HP	HEAT PUMP
GAS	
GM	GAS MARKER
GM	GAS METER
GV	GAS VALVE

GENERAL SITE FEATURES

B	BOLLARD
F	FLAGPOLE
FL	FLOOD LIGHT
G	GUY WIRE
MB	MAILBOX
S	SIGN- DOUBLE POST
S	SIGN- SINGLE POST
S	SOILBORE
S	STREET LIGHT
S	UTILITY POLE
S	UTILITY POLE W/STREET LIGHT
S	UNKNOWN MANHOLE

MONUMENTS

B	BENCHMARK
B	BENCHMARK (TEMPORARY)
S	CONTROL POINT
S	CUT X FOUND
S	CUT X SET
S	MONUMENT FOUND (FIRST TYPE)
S	MONUMENT FOUND (SECOND TYPE)
S	MONUMENT SET (FIRST TYPE)
S	MONUMENT SET (SECOND TYPE)
S	SECTION CORNER FOUND
S	SECTION CORNER SET
S	T POST
S	WOODEN POST

RAILROAD

M	MAINLINE MILE MARKER
P	POINT OF SWITCH
R	RAILROAD SIGNAL
S	SANITARY SEWER CLEANOUT
S	SANITARY SEWER MANHOLE
S	SEPTIC TANK LID

UTILITY WARNING

THE UTILITIES DEPICTED ON THIS DOCUMENT HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

STORM SEWER

B	BEEHIVE INLET
D	DOUBLE CURB INLET
D	SINGLE CURB INLET
D	AREA DRAINAGE INLET
F	FLARED END SECTION
S	STORM MANHOLE
S	STAND PIPE
S	STORM SEWER CLEANOUT
S	SIDE OPENING AREA INLET

TELECOMMUNICATIONS

H	COMPOSITE HANDHOLE
F	FIBER OPTIC MARKER
S	SATELLITE DISH
T	TELEPHONE MANHOLE
T	TELEPHONE PEDESTAL
T	TV/CABLE BOX
T	TV/CABLE MANHOLE

TRAFFIC

S	PEDESTRIAN SIGNAL
S	SIGNAL CONTROL CABINET
S	TRAFFIC BOX
S	TRAFFIC HANDHOLE
S	TRAFFIC MANHOLE
S	TRAFFIC SIGNAL
S	TRAFFIC SIGNAL W/STREET LIGHT

VEGETATION

S	CONIFEROUS TREE
S	DECIDUOUS TREE
S	SHRUB
S	TREE STUMP

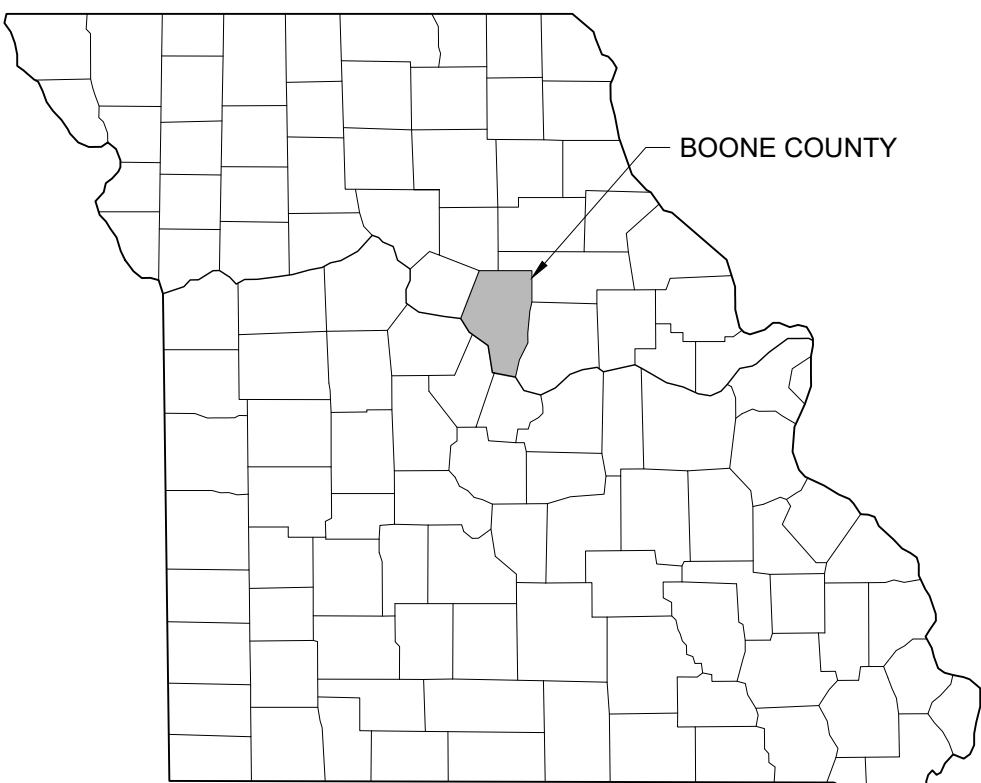
WATER

S	CURB STOP
S	FIRE HYDRANT
S	IRRIGATION VALVE
S	MONITORING WELL
S	POST INDICATOR VALVE
S	SPRINKLER BOX
S	WATER MANHOLE
S	WATER MARKER
S	WATER METER
S	WATER SPIGOT
S	WATER VALVE
S	WATER VALVE MANHOLE
S	YARD HYDRANT

DEMOLITION

X	REMOVE TREE
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#	TITLE
1	PRELIMINARY DESIGN-COVER
2	PRELIMINARY DESIGN-PLAN 1
3	PRELIMINARY DESIGN-PLAN 2
4	PRELIMINARY DESIGN-PLAN 3
5	PRELIMINARY DESIGN-DETAILS 1
6	PRELIMINARY DESIGN-DETAILS 2



KEY MAP

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH "CITY OF COLUMBIA STREET, STORM DRAIN AND SANITARY SEWER SPECIFICATIONS AND STANDARDS" (CURRENT EDITION).
- KNOWN UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. OTHER UTILITIES MAY EXIST.
- ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.
- ALL DISTURBED EARTH AREAS SHALL BE RESTORED AS PER TS-___ SEEDING AND TS-___ EROSION CONTROL.
- REMOVE ALL PAVEMENT SURFACES, INLETS, PIPES AND SIDEWALKS WITHIN THE CONSTRUCTION LIMITS AS PER TS-___, EXCEPT THOSE NOTED TO REMAIN. THE FIELD INSPECTOR SHALL VERIFY REMOVALS.
- REMOVAL OF TREES AND BUSHES SHALL BE VERIFIED BY FIELD INSPECTORS. EXERCISE CAUTION WHEN WORKING NEAR THE CONSTRUCTION LIMITS TO MINIMIZE DISTURBANCE TO ADJACENT TREES AND SHRUBS THAT ARE NOT BEING REMOVED BY CONSTRUCTION ACTIVITIES.
- NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT. ASPHALTIC "COLD MIX" SHALL BE USED AS A TEMPORARY PATCH OVERNIGHT. TEMPORARY PATCHING SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
- ALL BARRICADES, SIGNS, OTHER TRAFFIC CONTROL DEVICES AND PLACEMENT THEREOF SHALL CONFORM TO THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). SIGNING SHOWN AS MINIMUM REQUIREMENTS FOR ADJACENT ROADWAYS SHALL BE INSTALLED PRIOR TO IMPROVEMENTS. CONTRACTOR RESPONSIBLE FOR ADDITIONAL SIGNING, MARKING, OR Delineators FOR SITE SPECIFIC CONSTRUCTION PHASING TO COMPLY WITH MUTCD GUIDELINES.

UTILITY CONTACTS

ELECTRIC	NATURAL GAS
CITY OF COLUMBIA, WATER & LIGHT 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489	AMEREN MISSOURI 2001 MAGUIRE BLVD. COLUMBIA, MISSOURI 65201 573-876-3028
ELECTRIC	SEWER
BOONE ELECTRIC COOPERATIVE 1413 RANGELINE STREET COLUMBIA, MO 65201 573-449-4181	CITY OF COLUMBIA, SEWER UTILITY 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489
WATER	TELECOMMUNICATION
CITY OF COLUMBIA, WATER & LIGHT 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489	CITY OF COLUMBIA, WATER & LIGHT 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489
WATER	TELECOMMUNICATION
PUBLIC WATER SUPPLY DISTRICT #9 391 E. BROADWAY COLUMBIA, MISSOURI 65201 573-474-9521	SOCKET TELECOM 2703 CLARK LANE COLUMBIA, MISSOURI 65202 573-817-0000
TELECOMMUNICATION	TELECOMMUNICATION
AT&T TRANSMISSION 800-252-1113	BRIGHTSPEED 833-363-2360



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P 573-814-1568
F 573-814-1128

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Lenexa, KS
Portsmouth, NH

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2024

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

Ryan Fuller
MO PE-2016001250
November 5, 2024

REVISIONS

PROJECT INFO
2023002046

ENGINEER: JHT
DRAWN BY: SMH
CHECKED BY: RAF

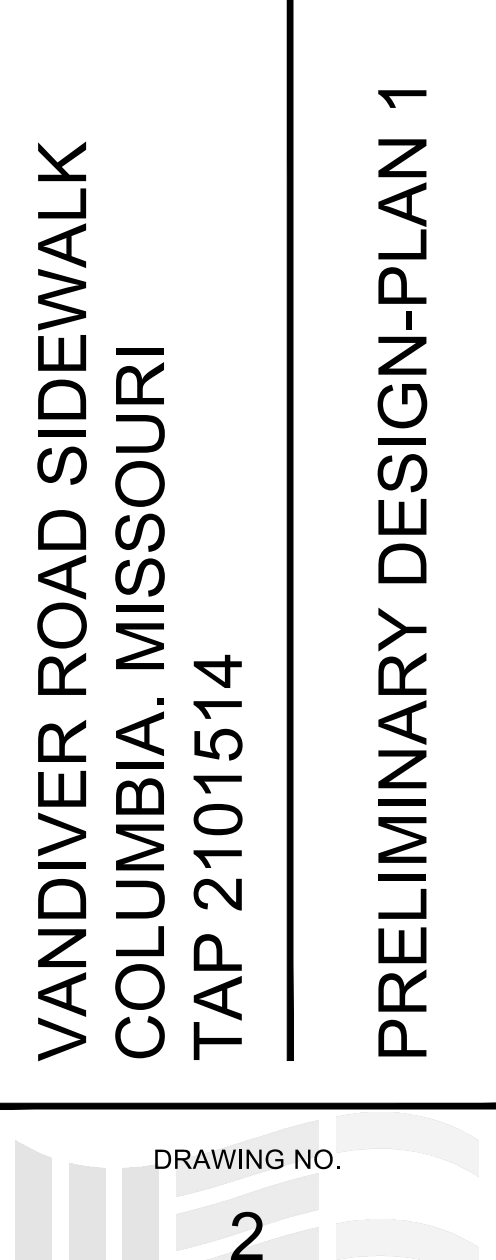
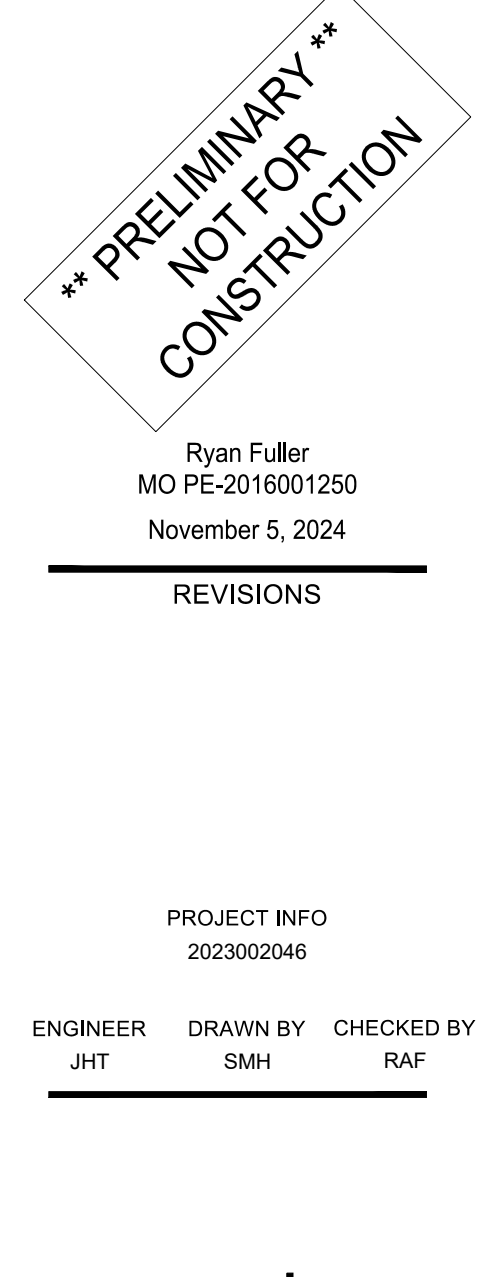
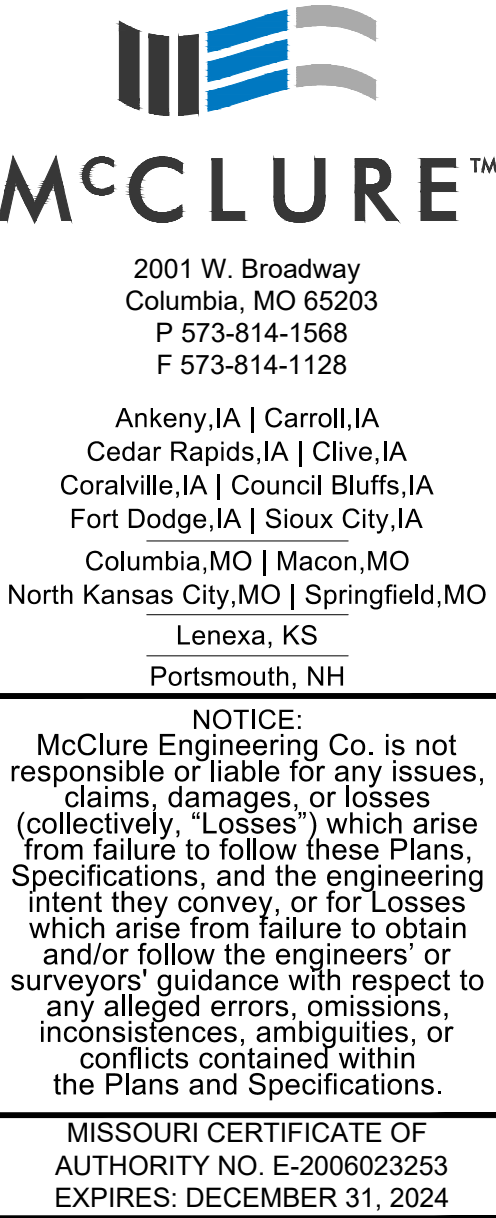
VANDIVER ROAD SIDEWALK
COLUMBIA, MISSOURI
TAP 2101514

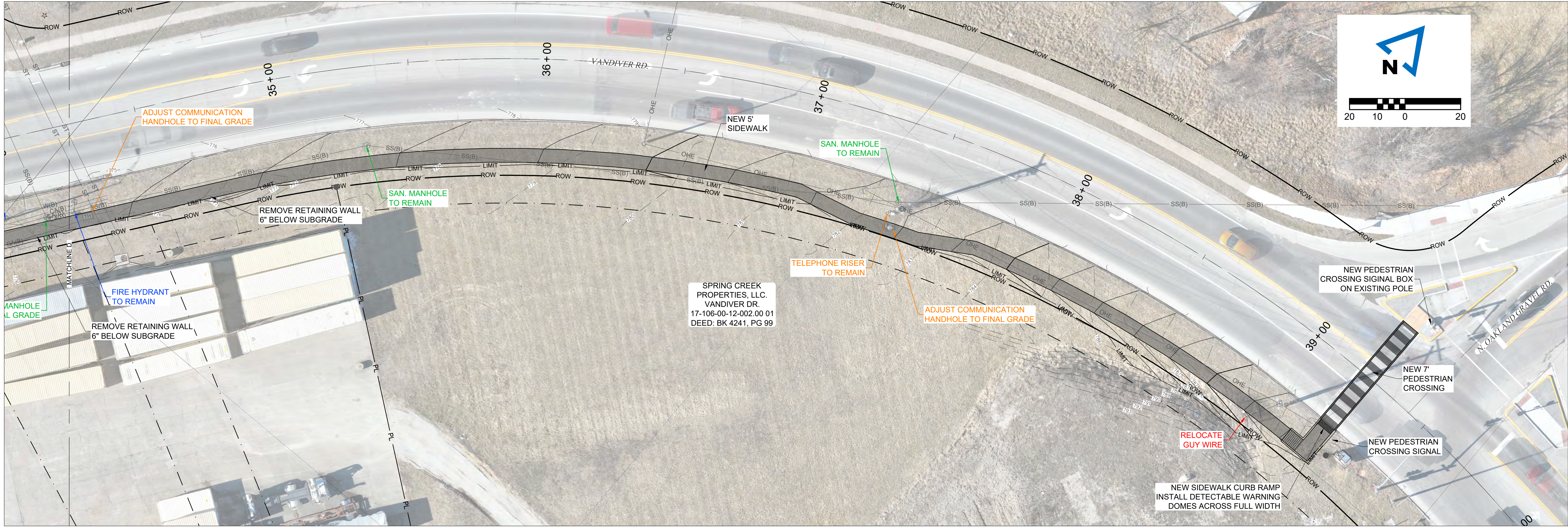
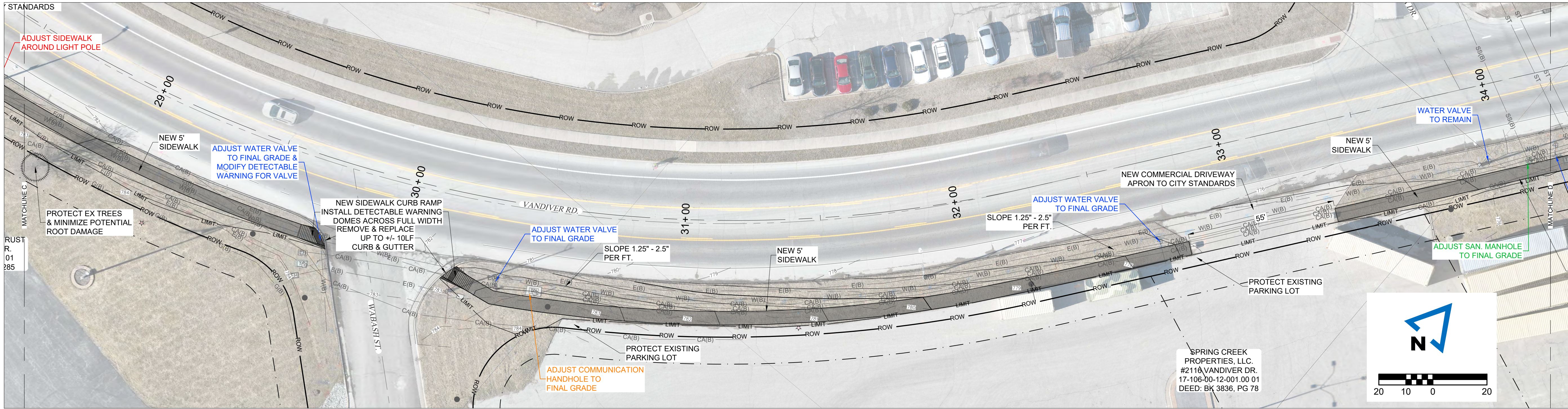
PRELIMINARY DESIGN-COVER

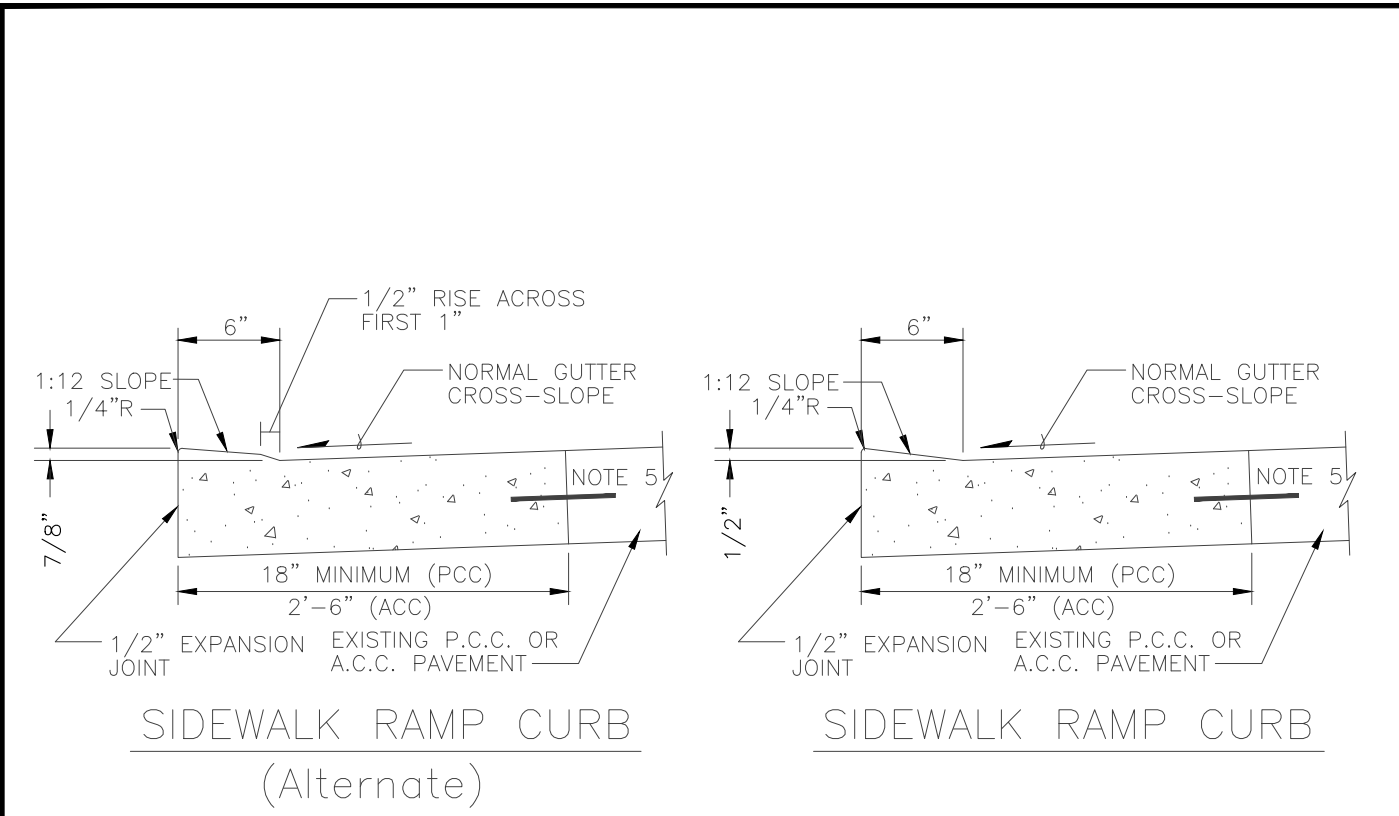
DRAWING NO.

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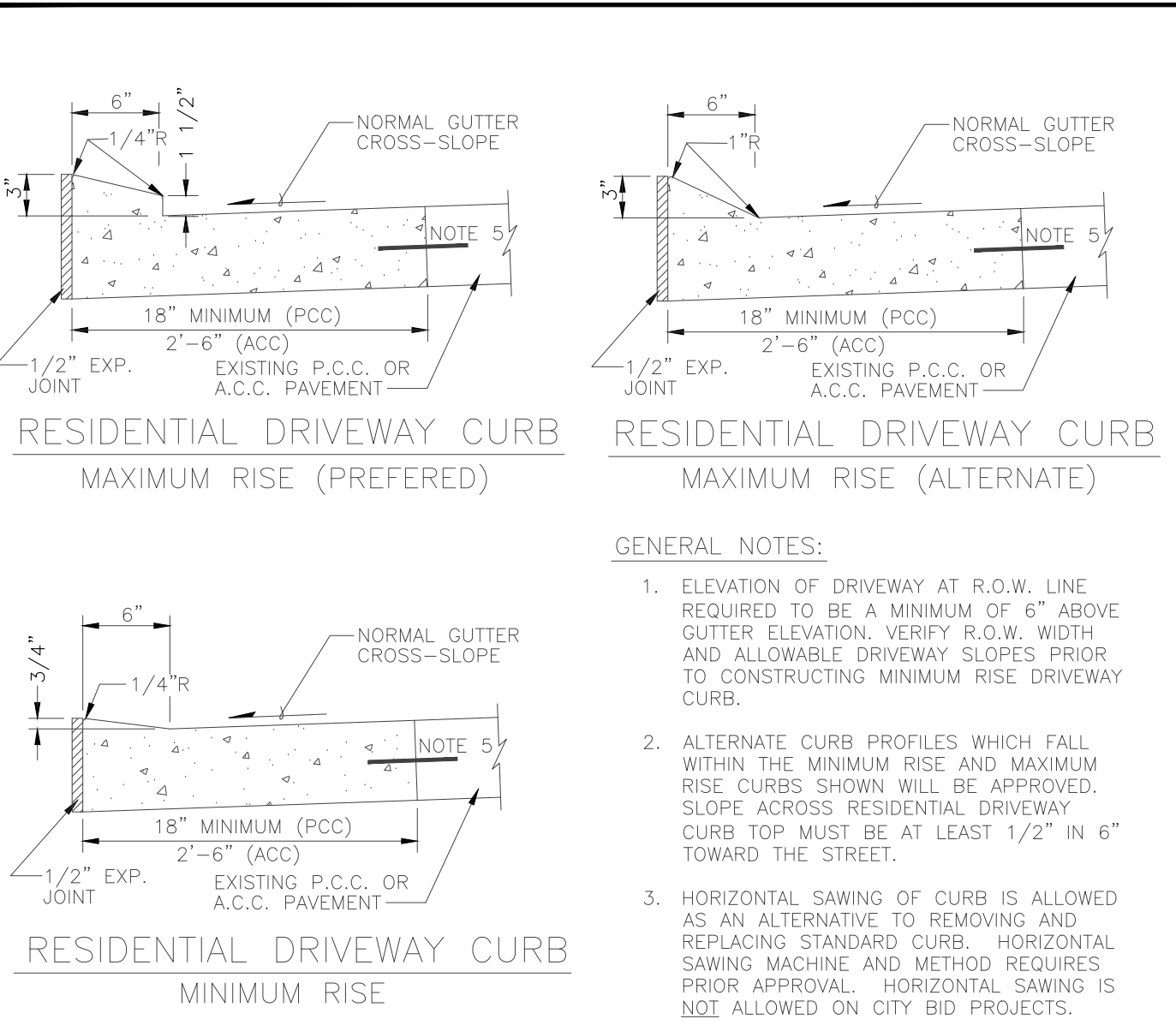
Shane Steven Crech Registered Professional Engineer PE-2007011061	city of Columbia Public Works	Mission Provide safe, sustainable Infrastructure that promotes positive communities. 701 East Broadway P.O. Box 6015 Columbia, MO 65205 (573) 875-2489
Approved By Director of Public Works	Date	



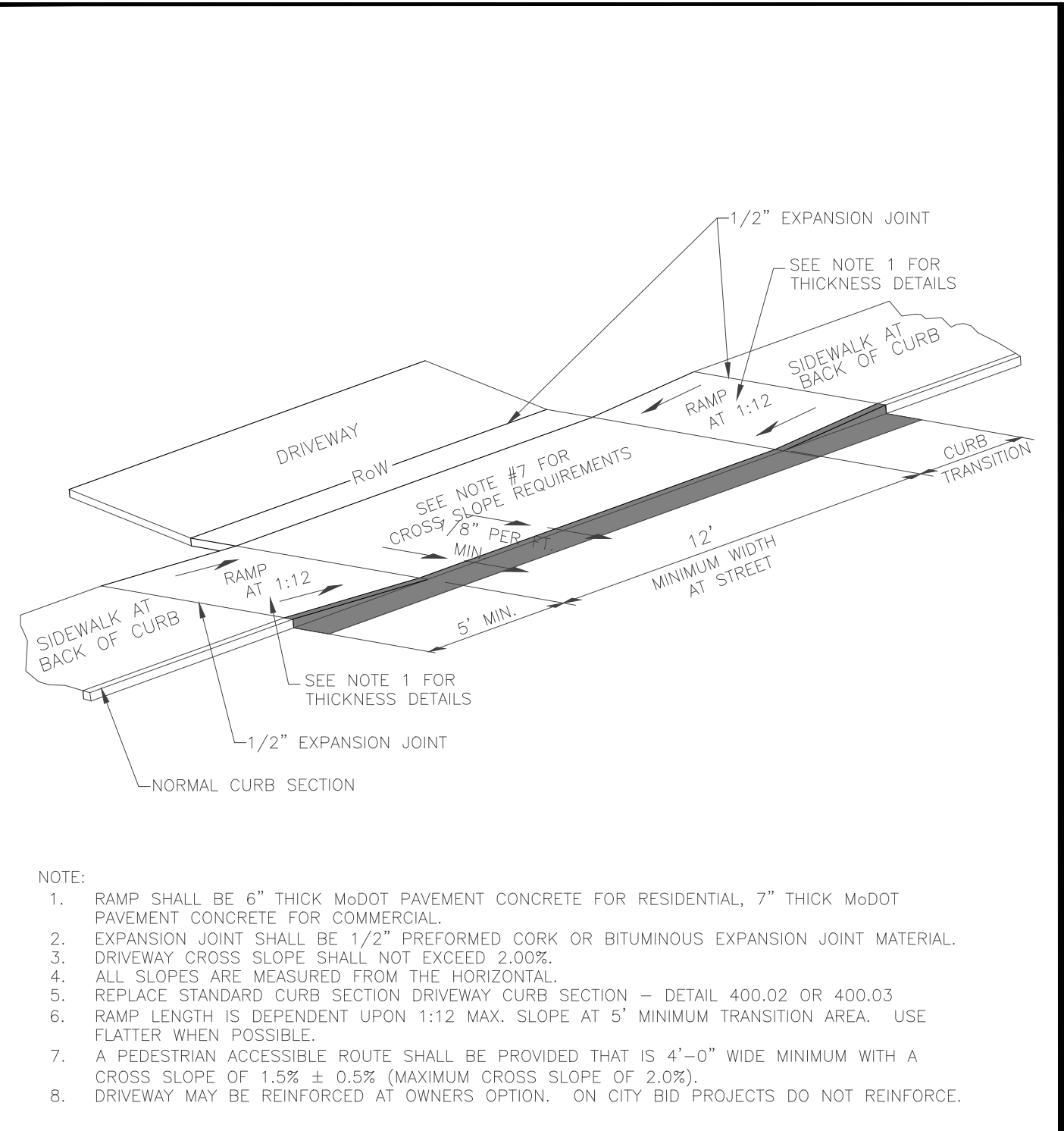




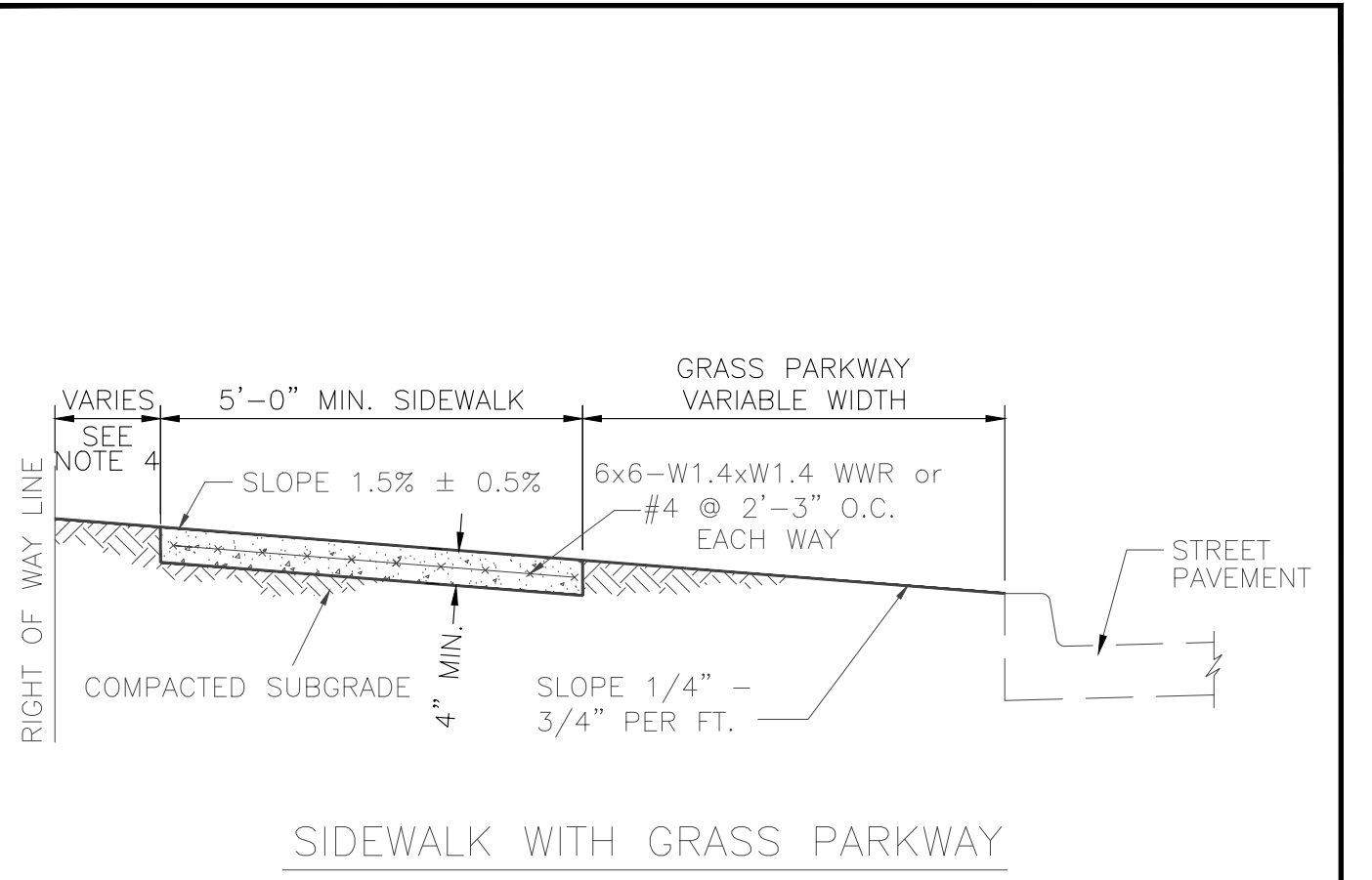
- PCC PAVEMENT NOTES:**
- CONCRETE SHALL BE MoDOT PAVEMENT CONCRETE.
 - PAVEMENT THICKNESS SHALL MATCH EXISTING. BASE SHALL MATCH EXISTING
 - EXPANSION JOINTS AND CONTRACTION JOINTS SHALL BE PLACED AT LOCATIONS SIMILAR TO THE PAVEMENT WHICH WAS REMOVED.
 - CURB EDGE SHALL BE TOOLED WITH 1/4" RADIUS
 - WHERE EXISTING PAVEMENT IS P.C.C., LOW CURB REPLACEMENT SHALL BE DOWELED 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



- 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.
- RESIDENTIAL DRIVEWAY CURB MINIMUM RISE**
- PCC PAVEMENT NOTES:**
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 - CURB EDGE SHALL BE TOOLED WITH 1/4" RADIUS



- 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.



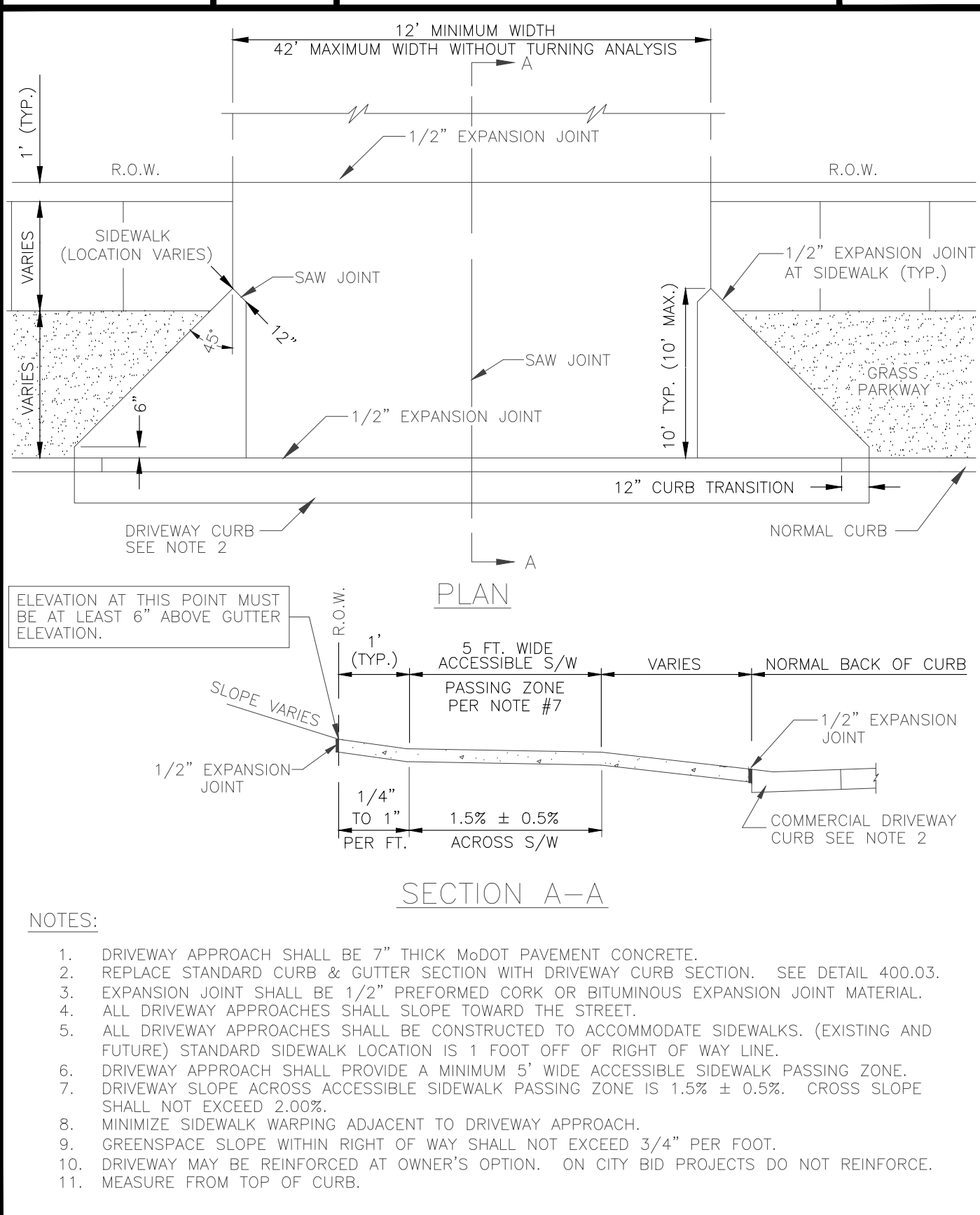
- NOTE:**
- SIDEWALK SHALL BE 4" THICK MoDOT PAVEMENT CONCRETE.
 - INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS, STRUCTURES, DRIVEWAY APPROACHES, OR EVERY 100'.
 - INSTALL TRANSVERSE SAW JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
 - STANDARD SIDEWALK PLACEMENT IS 12" FROM RIGHT OF WAY LINE.
 - 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					

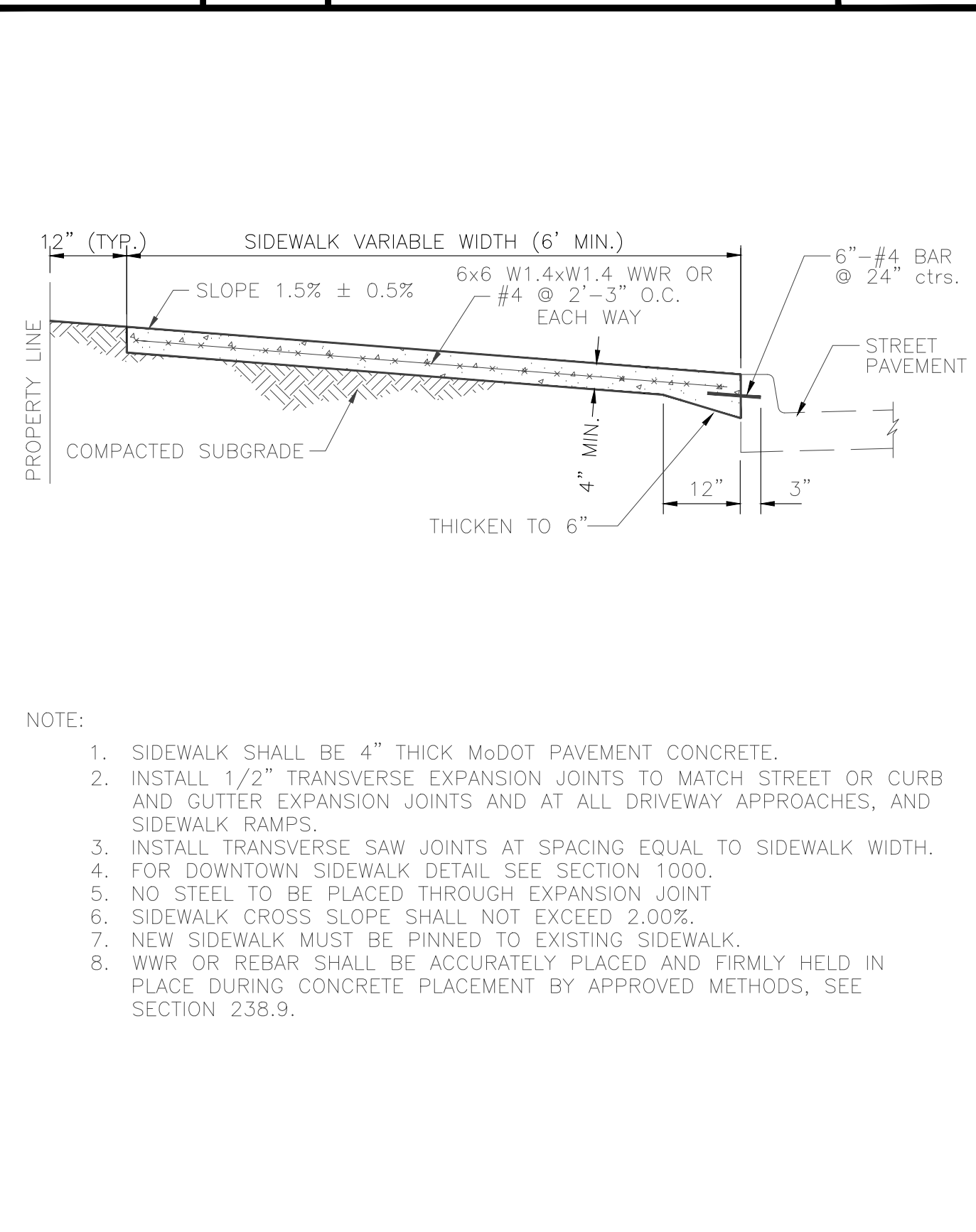
Approved	10/01/16	Date		CURB DETAILS (Residential Driveway)	400.02
Revisions					

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

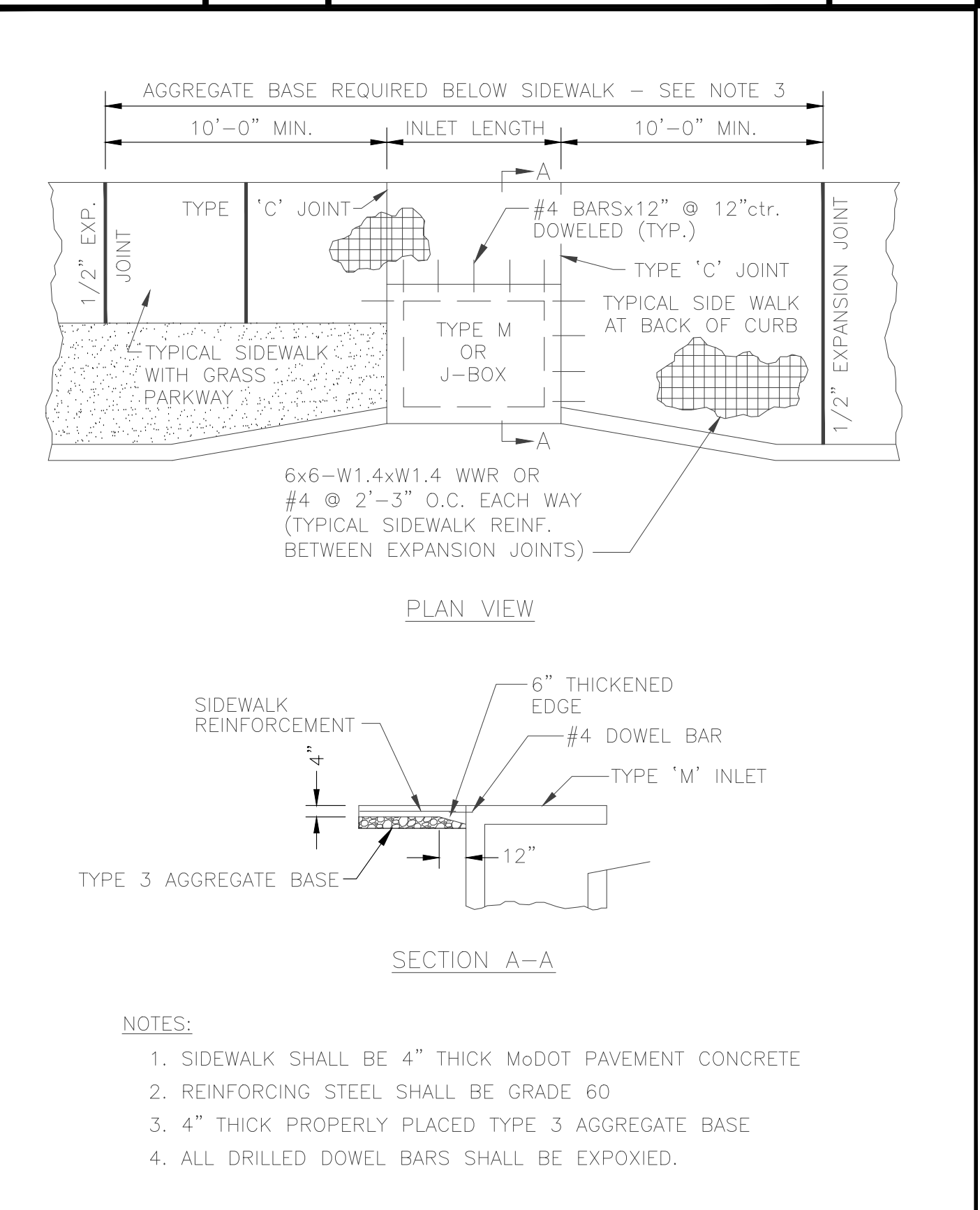
Approved	07/01/20	Date		SIDEWALK	420.01
Revisions					



Approved	07/01/20	Date		DRIVE APPROACH (Commercial)	410.03
Revisions					



Approved	07/01/20	Date		SIDEWALK AT BACK OF CURB	420.02
Revisions					



Approved	10/01/16	Date		SIDEWALK REINFORCEMENT AT DRAINAGE STRUCTURE	420.03
Revisions					

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MO PE-2016001250
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REVISIONS

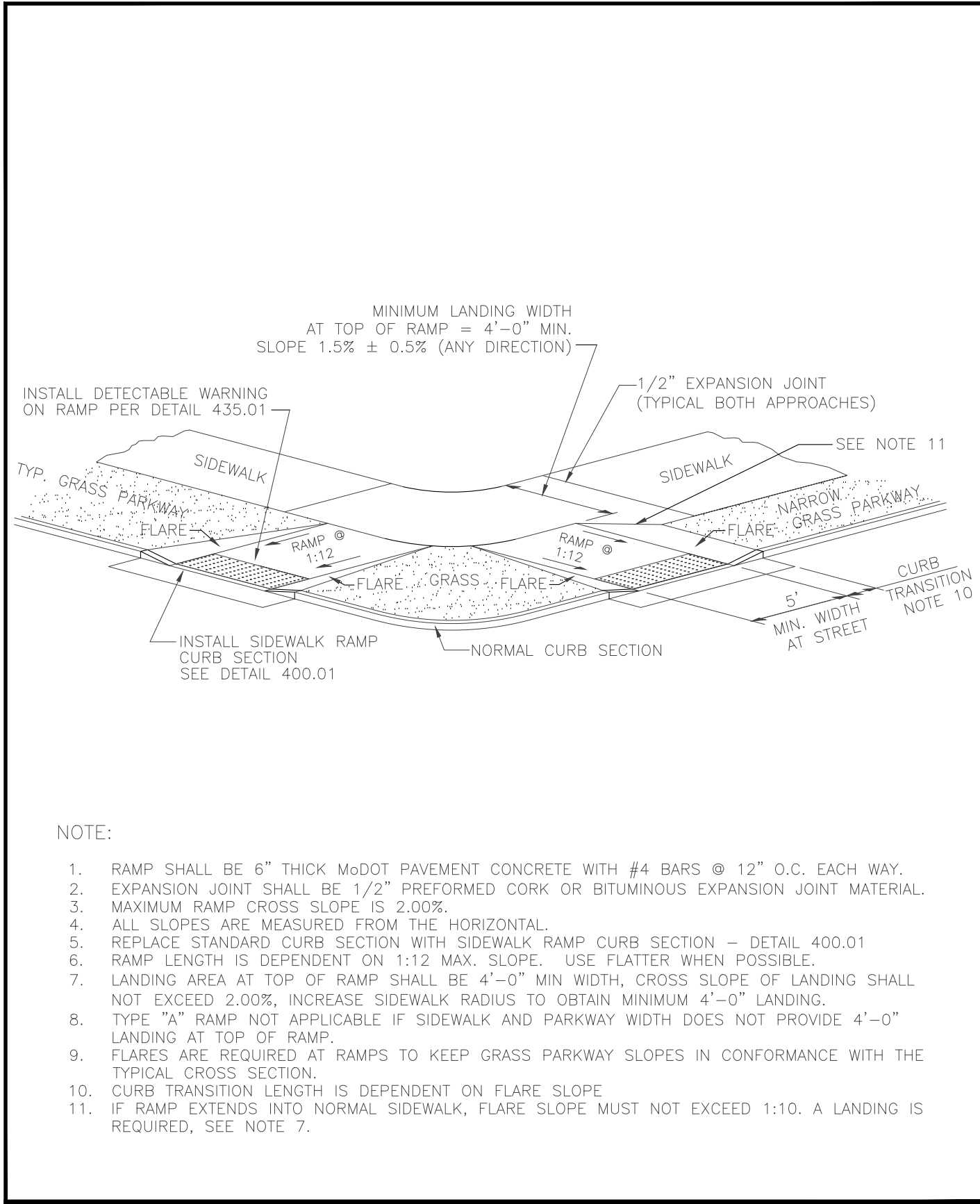
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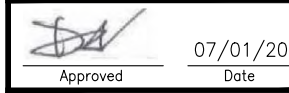

ENGINEER: JHT, DRAWN BY: SMH, CHECKED BY: RAF

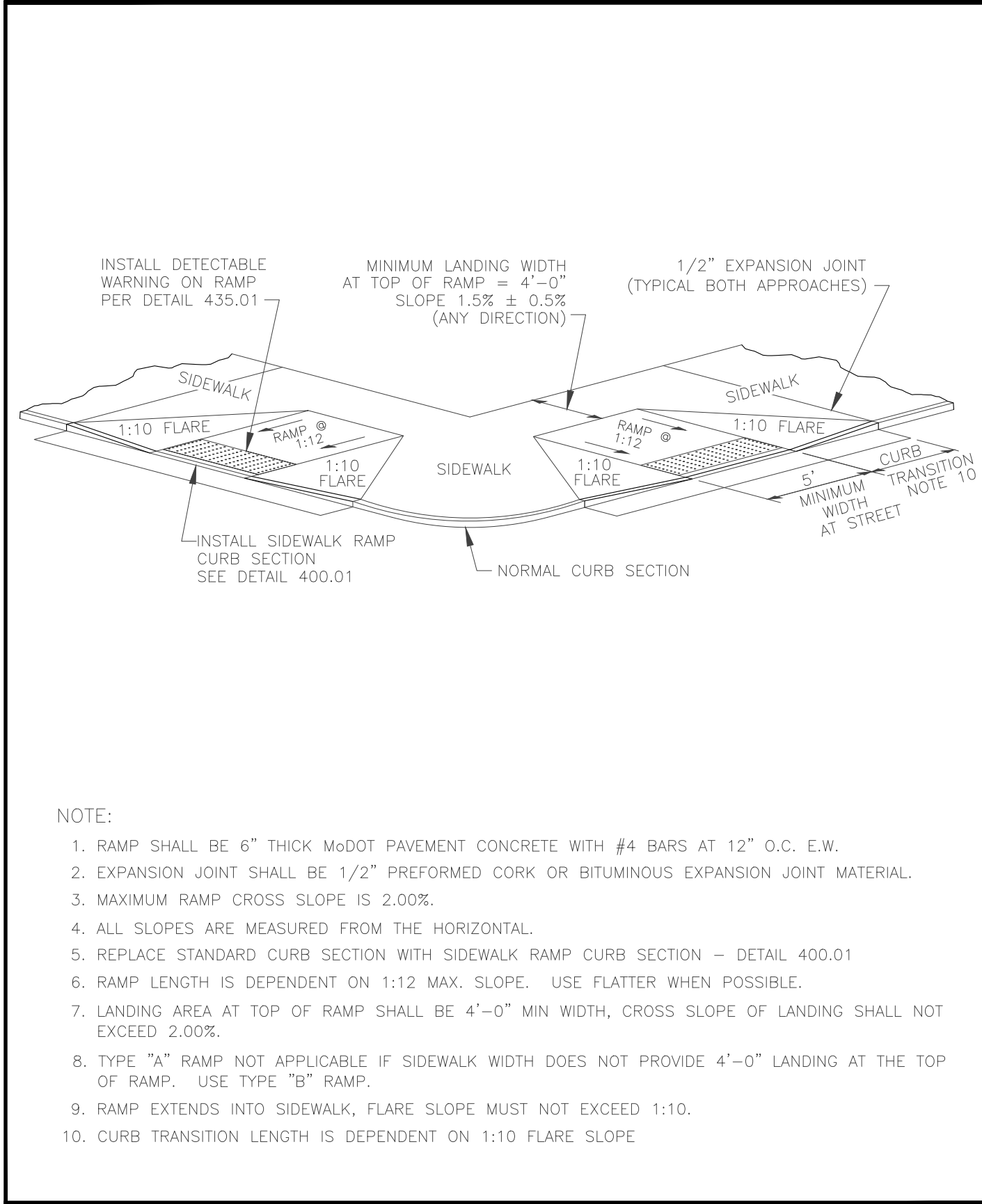
VANDIVER ROAD SIDEWALK
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PRELIMINARY DESIGN-DETAILS 1

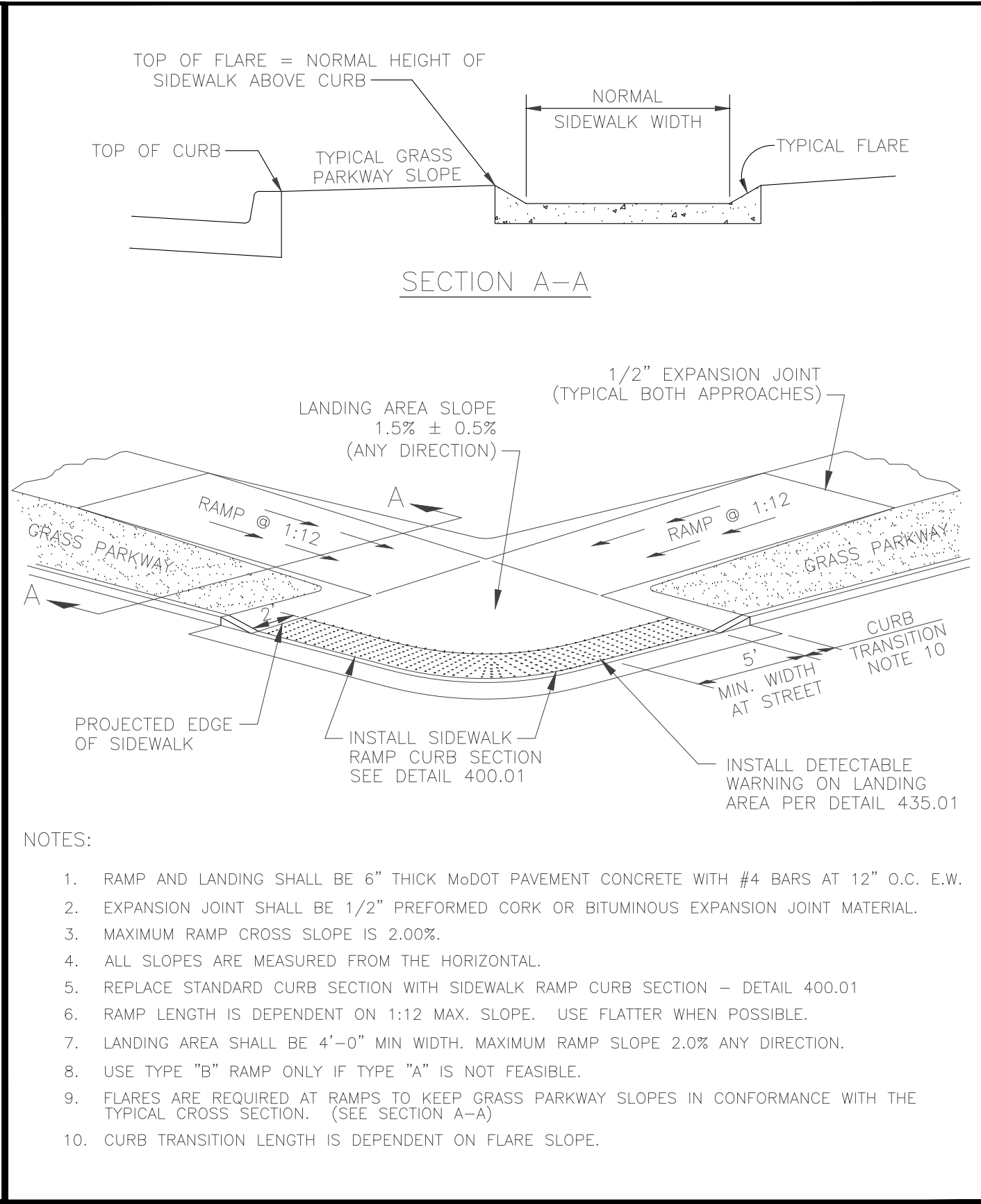
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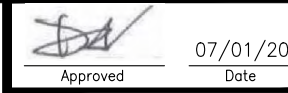



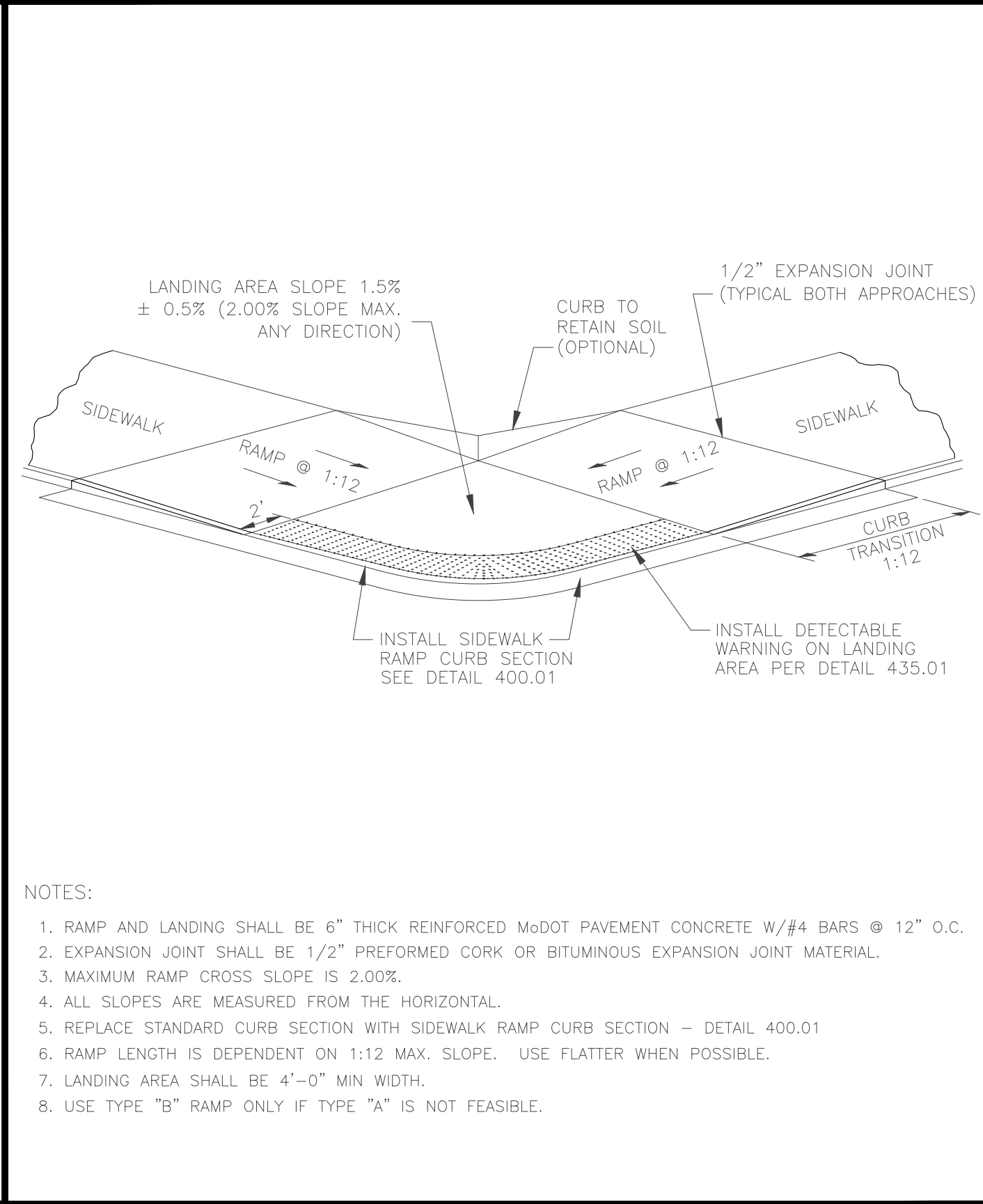
		SIDEWALK RAMP Sidewalk with Grass Parkway (Type A)	430.01
Approved	07/01/20	Revisions	





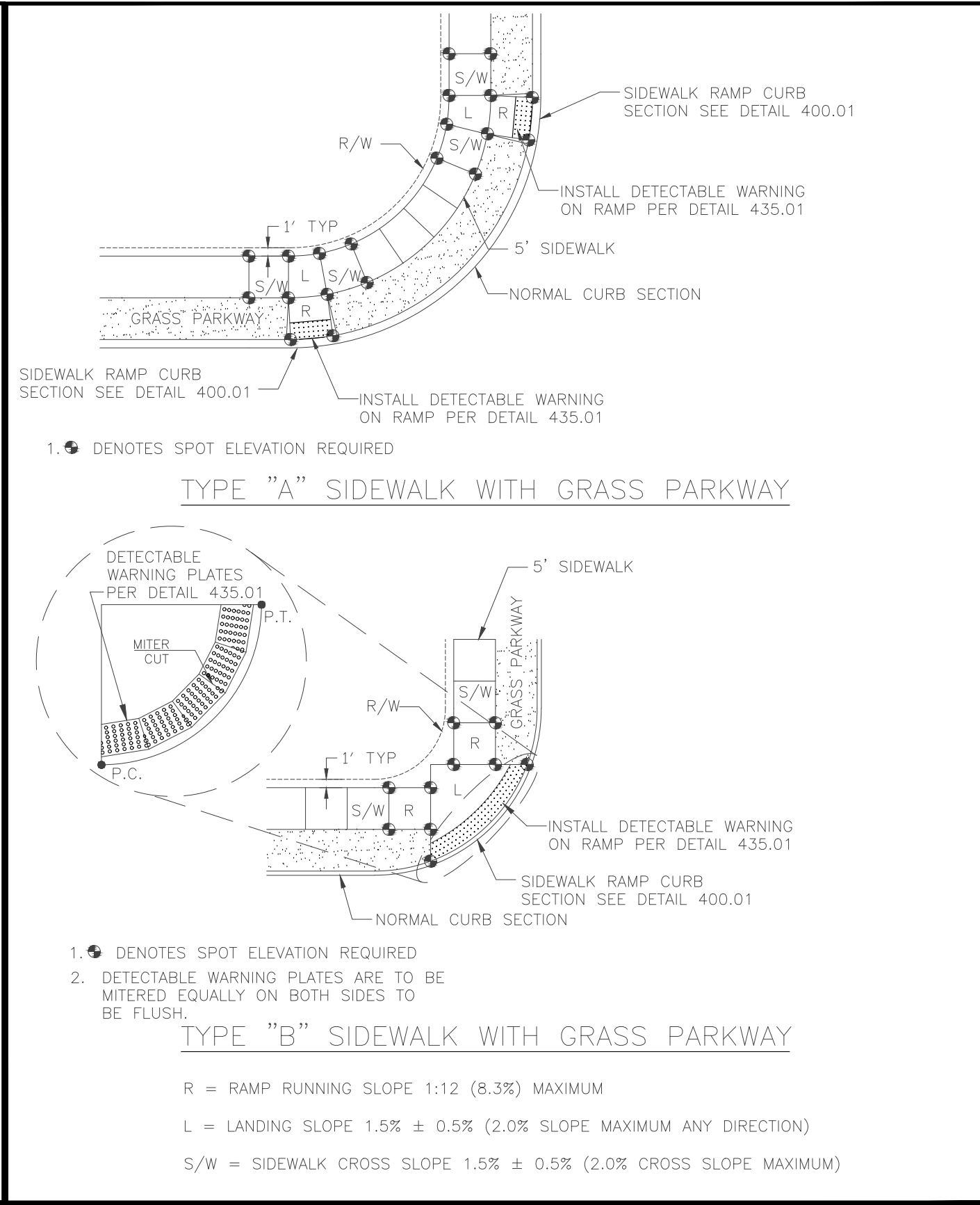
		SIDEWALK RAMP Sidewalk at Back of Curb (Type A)	432.01
Approved	07/01/20	Revisions	





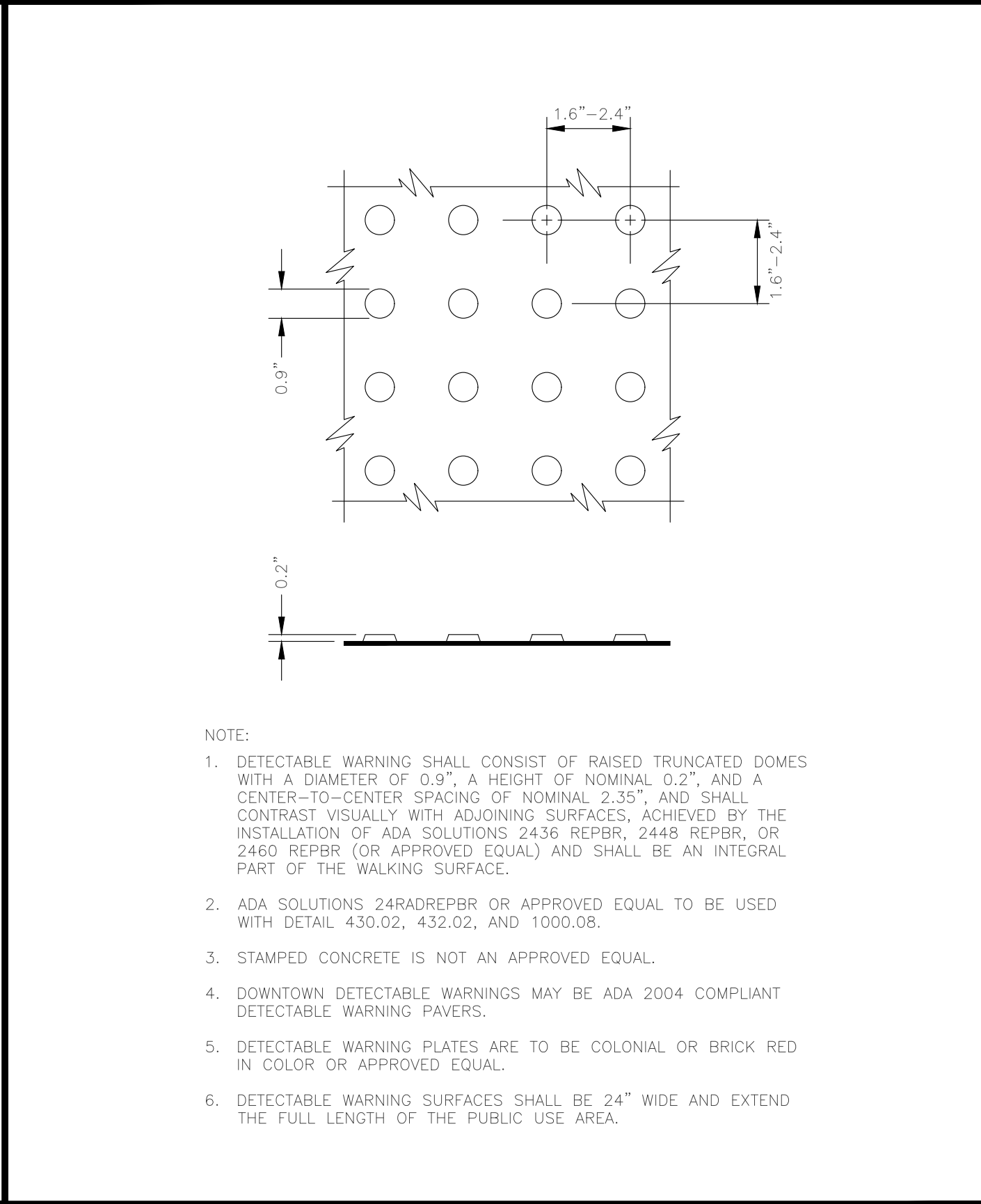
		SIDEWALK RAMP Sidewalk with Grass Parkway (Type B)	430.02
Approved	07/01/20	Revisions	

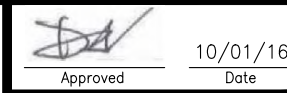




		SIDEWALK RAMP Sidewalk at Back of Curb (Type B)	432.02
Approved	07/01/20	Revisions	



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



		DETECTABLE WARNING	435.01
Approved	10/01/16	Revisions	



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ENGINEER: JHT, DRAWN BY: SMH, CHECKED BY: RAF

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PRELIMINARY DESIGN-DETAILS 2

DRAWING NO.
5