

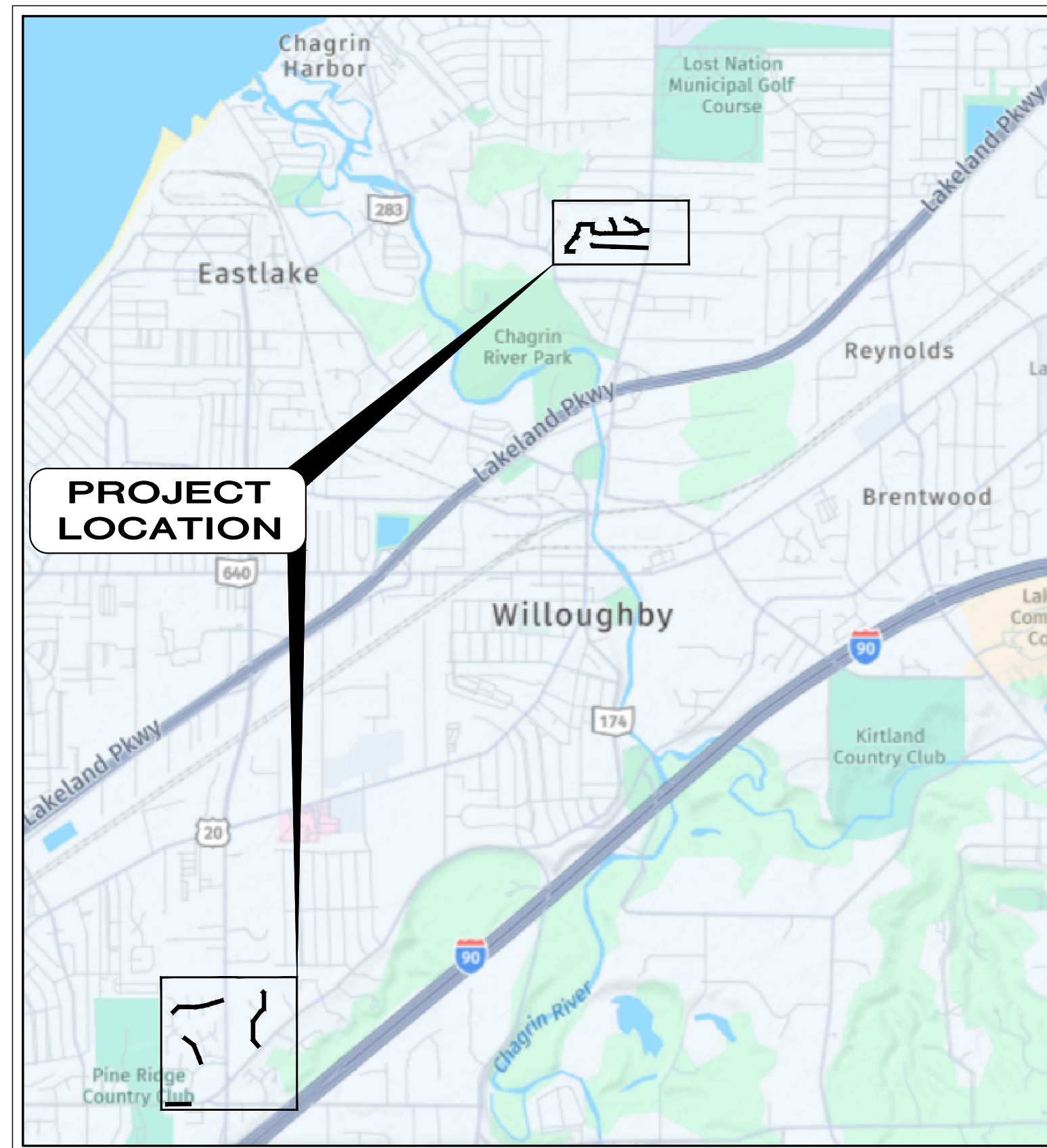
CITY OF WILLOUGHBY

2026 CONCRETE PAVEMENT SLAB REPLACEMENT OPWC FUNDED PROJECT

LAKE COUNTY, OHIO

JUNE, 2026

INDEX OF SHEETS	
SHEET TITLE	SHEET NUMBER
COVER SHEET	1
MAINTENANCE OF TRAFFIC	2
QUANTITY BREAKDOWN	3
PLAN SHEETS	4-18
DETAILS	19-21



LOCATION MAP
NOT TO SCALE

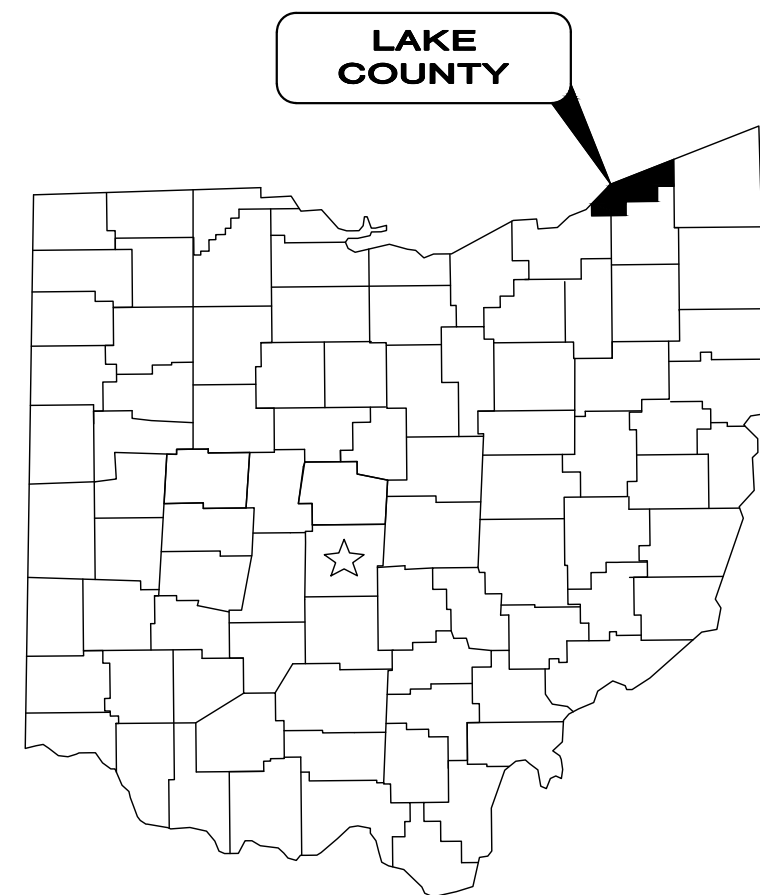
CITY OFFICIALS:

ROBERT A. FIALA MAYOR
 DANIEL KNECHT SERVICE DIRECTOR
 MICHAEL LUCAS LAW DIRECTOR
 CHER HOFFMAN FINANCE DIRECTOR
 LARRY PUSKAS BUILDING COMMISSIONER
 JUDEAN KELLER PARKS & RECREATION DIRECTOR
 JAMES SCHULTZ POLICE CHIEF
 TODD UNGAR FIRE CHIEF
 TIM LANNON, P.E. CITY ENGINEER

CITY COUNCIL:

ROBERT CARR COUNCIL PRESIDENT & WARD 4
 JOHN TOMASELLI VICE PRESIDENT & WARD 3
 KRISTIE SIEVERS WARD 1
 KEN KARY WARD 2
 LARRY LUCIANO WARD 5
 DANIEL GARRY WARD 6
 DANIEL ANDERSON COUNCIL-AT-LARGE
 ALISA NOVAK CLERK OF COUNCIL

UNDERGROUND UTILITIES
 CONTACT BOTH SERVICES
 CALL TWO WORKING DAYS
 BEFORE YOU DIG
 CALL
 1-800-362-2764
 (TOLL FREE)



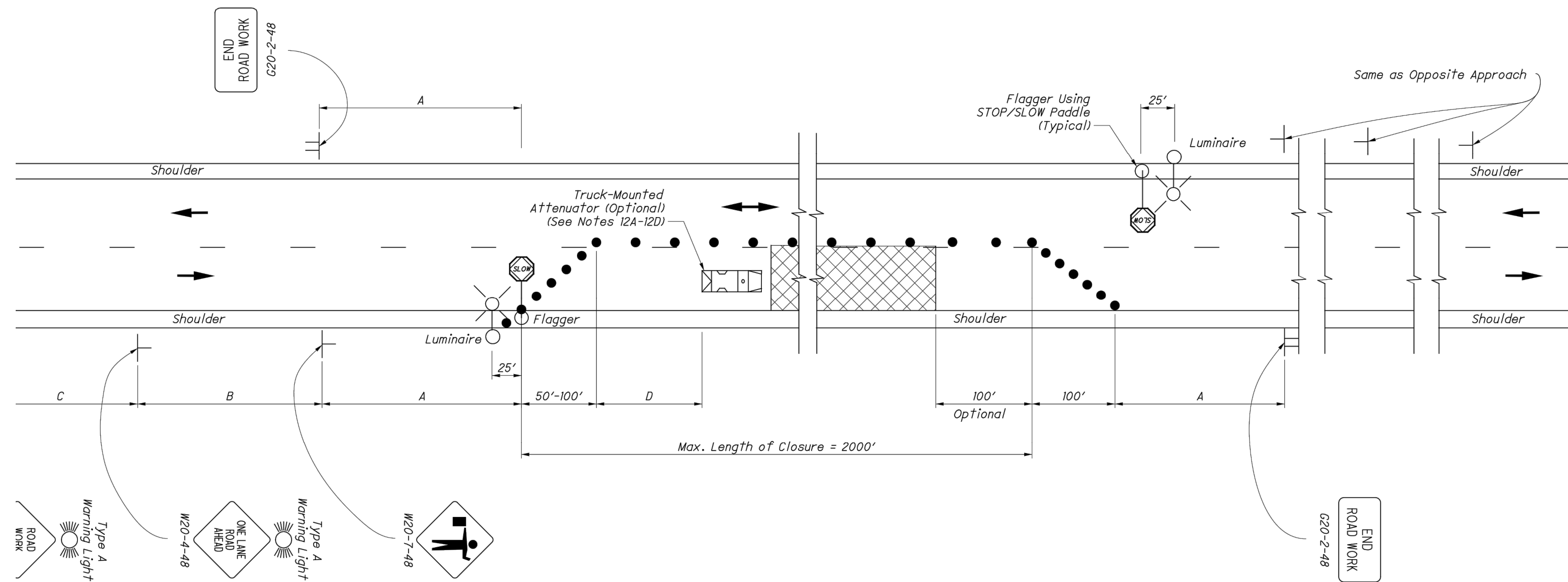
1. THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.
2. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
3. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



ENGINEER'S PROJECT No. 47809


 GEORGE M. STEVENS, P.E. P.E. NO. 86166 DATE 06/18/2026





NOTES:

FLAGGERS

1. Flaggers, one for each direction, shall be used to control traffic continuously for as long as a one lane operation is in effect. The flaggers shall be able to communicate with each other at all times.

LENGTH OF CLOSURE

2. Several small work areas close together should be combined into one work zone. However, the closure shall not be more than 2000' long unless approved by the Engineer. The minimum length between closures shall be 2000'. Only one side of the road shall be closed in any one work zone.

SIGN LOCATION AND SPACING

- 3A. The minimum spacing between work zone signs is shown in Table I. Maximum spacing should not be greater than 1.5 times the distances shown in Table I.
- 3B. Sign spacing should be adjusted to avoid conflict with existing signs. Minimum spacing to existing signs shall be 200' for speeds of 45 mph or less and a minimum of 400' for speeds of 50 mph or greater.
- 3C. The location of the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.

ADJUSTMENTS FOR SIGHT DISTANCE

4. The location of the flagger station and the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.

BASIC SIGNING

- 5A. ROAD WORK AHEAD (W20-1) signs shall be provided on entrance ramps or roadways entering the work limits.
- 5B. END ROAD WORK (G20-2) signs are only required for lane closures of more than 1 day. If it is intended that these signs be placed on the mainline, on all exit ramps, and on roadways exiting the work limits.
- 5C. Overlapping of signing for adjacent projects should be avoided where the messages could be confusing. Any ROAD WORK AHEAD (W20-1) or END ROAD WORK (G20-2) sign which falls within the limits of another traffic control zone shall be omitted or covered during the period when both projects are active.

SIGNING DETAILS

- 6A. The Advisory Speed (W13-1P) plaque shall be used when specified in the plan.
- 6B. 36" warning signs may be used when the approach speed limit is 40 mph or less.

FLASHING WARNING LIGHTS

7. Type A flashing warning lights shown on the ROAD WORK AHEAD (W20-1) signs and on the LANE CLOSED AHEAD (W20-5) signs are required whenever a night lane closure is necessary.

DRUMS / CONES

- 8A. Drum spacing shall be as follows:
 - a) Spacing along the closure shall be 40' center-to-center.
 - b) Spacing along the approach taper shall be 10' center-to-center.
- 8B. Cones may be substituted for drums as follows:
 - a) Cones used for daytime traffic control shall have a minimum height of 28".
 - b) Cones used for nighttime traffic control shall have a minimum height of 42".
 - c) Use of cones at night shall be prohibited along tapers.
- 8C. Provisions shall be made to stabilize the cones and drums to prevent them from blowing over.
- 8D. A minimum of two drums shall be used to close the paved shoulder.

(RESERVED FOR FUTURE USE)

- 9A. (intentionally blank)

AREA ILLUMINATION

- 10A. Adequate area illumination of each flagger station shall be provided at night. Use of portable flood lighting is acceptable. Luminaires shall be located adjacent to each flagger station.
- 10B. To ensure the adequacy of floodlight placement and the elimination of glare, the Contractor and the Engineer shall drive through the worksite each night when the lighting is in place. Light placement and shielding shall be adjusted to the satisfaction of the Engineer.

INTERSECTION / DRIVEWAY ACCESS

11. Within the length of closure, provision shall be made to control traffic entering from intersecting streets and major drives as necessary to prevent wrong-way movements and to keep vehicles off of new pavement not ready for traffic. The Contractor shall:
 - a) Place across the closed lane, either three drums (cones) or barricades, and/or
 - b) Provide an additional flagger at every public street intersection and major driveway.

Drums (cones) placed across the closed lane shall be located 25' beyond the projected pavement edges of the driveway or cross highway, as shown in Standard Construction Drawings (SCDs) MT-97.11 or MT-97.12. For barricades, see SCD MT-101.60.

Existing STOP signs shall be relocated as necessary to assure proper location for the traffic conditions.

The method of control shall be subject to the approval of the Engineer.

SHADOW VEHICLE

- 12A. The shadow vehicle shall be in place and unoccupied whenever workers are in the work area. This vehicle shall be removed from the pavement whenever workers are not in the work area.
- 12B. The shadow vehicle shall be equipped with a high-intensity yellow rotating, flashing, oscillating, or strobe lights.
- 12C. The vehicle shall be equipped with a truck-mounted attenuator when called for in the plans.
- 12D. Other protective devices may be used in lieu of the shadow vehicle shown when approved by the Engineer.

CHIP SEAL OPERATIONS

13. For chip seal operations, additional signing shall be incorporated in the advanced warning area.

- a) The LOOSE GRAVEL (W8-7) and FRESH TAR (W21-2) signs shall both be used in advance of the chip seal operation.
- b) Repeat the LOOSE GRAVEL sign with a 35 mph Advisory Speed (W13-1) plaque every half mile per CMS 422.09.
- c) The FRESH TAR and the LOOSE GRAVEL signs shall both be used for signing of side roads intersecting the work area.

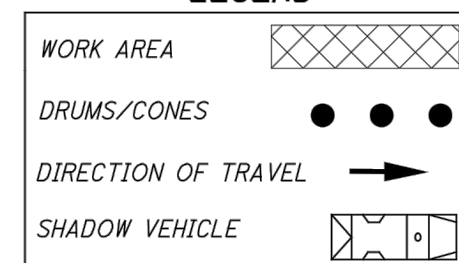
TABLE I (SIGN SPACING)

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
Two-Lane (< 40 MPH)	100	100	100
Two-Lane (45-50 MPH)	350	350	350
Two-Lane (55-60 MPH)	500	500	500

TABLE II

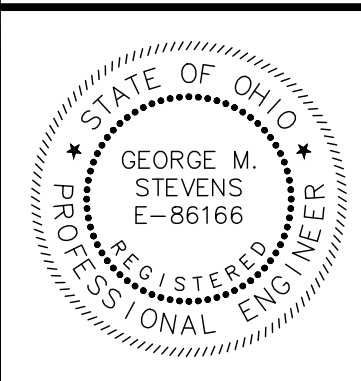
SPEED LIMIT (MPH)	BUFFER (D) (FT) MIN.
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570

LEGEND



ADDITIONAL TRAFFIC MAINTENANCE NOTES

1. ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES FOR LOCAL TRAFFIC AND EMERGENCY VEHICLES. LOCAL ACCESS TO ABUTTING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO ALL DRIVEWAYS SHALL ALSO BE MAINTAINED AT ALL TIMES.
2. PART WIDTH CONSTRUCTION, ONE LANE WIDTH, SHALL BE USED DURING THE PERFORMANCE OF PAVING OPERATIONS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL ABUTTING PROPERTIES WITHIN THE PROJECT. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGMEN, TEMPORARY GUARDRAIL, DETOUR AND CONSTRUCTION SIGNING AND OTHER TRAFFIC CONTROLS SO AS TO AVOID DAMAGE AND/OR INJURY TO AND ENSURE THE SAFETY OF VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION BOTH WITHIN AND OUTSIDE OF THE PROJECT LIMITS.
4. MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. DETOUR ROUTES & SIGNAGE SHALL MEET THE APPROVAL OF THE CITY ENGINEER.
5. IN ORDER TO MAINTAIN LOCAL AND DRIVEWAY ACCESS, THE CONTRACTOR SHALL FURNISH AND INSTALL TRAFFIC COMPACTED SURFACE, TYPE A OR B IN ACCORDANCE WITH ODOT ITEM 410 LIMESTONE OR GRAVEL ONLY INCLUDING NECESSARY WATER AND CALCIUM CHLORIDE IN ACCORDANCE WITH ODOT ITEM 616 AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR MAINTAINING TRAFFIC INCLUDING PROVIDING TRAFFIC COMPACTED SURFACES, OTHER TEMPORARY ROADWAYS, TRAFFIC CONTROL, AND ALL OTHER SAFEGUARDS. COST FOR MAINTAINING TRAFFIC INCLUDING ALL MATERIALS, LABOR AND EQUIPMENT FOR CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS OF THE PROPOSAL.
6. LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.
7. NOTICE OF CLOSURE SIGNS, FOR SEVERAL SIDE ROADS, AS DETAILED IN THESE PLANS, SHALL BE ERRECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERRECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHOULD BE ERRECTED AT THE POINT OF CLOSURE.
8. THE CONTRACTOR SHALL PROVIDE, ERRECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN ON THE PLANS.
9. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.
10. IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATIVE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE ENGINEER.
11. PAYMENT FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIED SEPARATELY, SHALL BE AT THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS DETAILED IN THE PLANS.



NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

MAINTENANCE OF TRAFFIC

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	MOT-1
SHEET	2
OF	21

2026 CONCRETE PAVEMENT SLAB REPLACEMENT

STREET LIST, QUANTITIES AND DISTRIBUTION OF WORK

GLENBURY LANE
(SHEET 4)

From	To	Distribution of Work (%)	Approx # of Slabs
Drury Ln	End	6.63%	10.00

PICCADILLY SQ
(SHEET 9)

From	To	Distribution of Work (%)	Approx # of Slabs
Westminster Ln	End	2.45%	3.7

DRURY LANE
(SHEET 5)

From	To	Distribution of Work (%)	Approx # of Slabs
Westminster Ln	Glenbury Ln	6.66%	10.1

BRIGHTON PATH
(SHEET 10-11)

From	To	Distribution of Work (%)	Approx # of Slabs
Lost Nation Rd	End	13.83%	20.9

EMSLEY COURT
(SHEET 5)

From	To	Distribution of Work (%)	Approx # of Slabs
Glenbury Ln	End	15.02%	22.7

COLONIAL BLVD
(SHEET 12-14)

From	To	Distribution of Work (%)	Approx # of Slabs
Halle Dr	SR91	10.44%	15.8

WESTMINSTER
(SHEET 6-8)

From	To	Distribution of Work (%)	Approx # of Slabs
Lost Nation Rd	Drury Ln	13.26%	20.0

HARTSHIRE DR
(SHEET 15-17)

From	To	Distribution of Work (%)	Approx # of Slabs
Ridge Rd	End	19.28%	29.1

TRAFALGAR SQ
(SHEET 7)

From	To	Distribution of Work (%)	Approx # of Slabs
Westminster Ln	End	12.30%	18.5

RIDGE RD
(SHEET 18)

From	To	Distribution of Work (%)	Approx # of Slabs
Halle Farms Dr	Halle Dr	0.12%	0.2



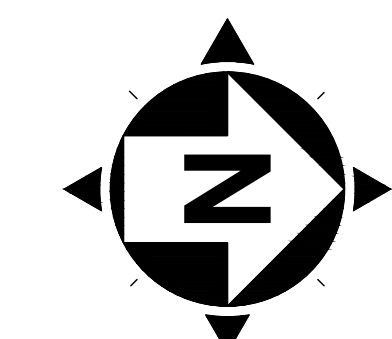
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
LAKE COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

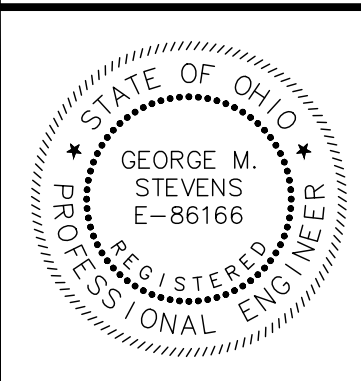
STREET LIST AND DISTRIBUTION OF WORK

PROJECT NO.		47809
DISCIPLINE		CIVIL
SHEET NAME		QB-1
SHEET	OF	
3	21	



LEGEND

FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



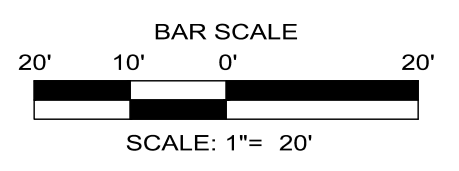
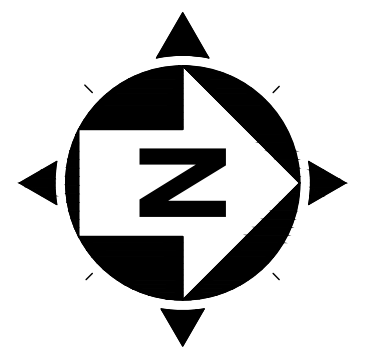
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO

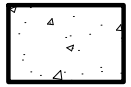
ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

GLENBURY LANE

PROJECT NO.		47809
DISCIPLINE		CIVIL
SHEET NAME		P-1
SHEET	OF	
4	21	



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.

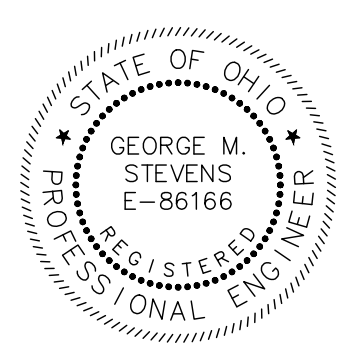


EX STORM MH.
(ADJUST TO GRADE)

EX CURB INLET
(ADJUST TO GRADE)

EX CURB INLET
(ADJUST TO GRADE)

MATCH LINE B



NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO

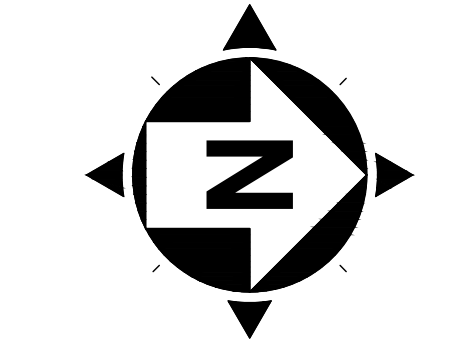
ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

DRURY LANE AND EMSLEY COURT

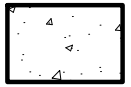
PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	P-2
SHEET	5
OF	21

Z:\PROJECT FILES\WILLOUGHBY\47809 - 2026 CONCRETE SLAB REPLACEMENT PROGRAM\CAD\DWG\47809 - PLAN.DWG - P.2 - 6/16/2025 3:17:23 PM - TYLER BAKER

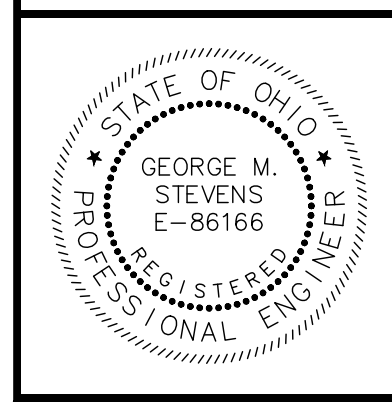
MATCH LINE B



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.

MATCH LINE C



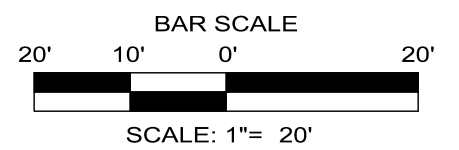
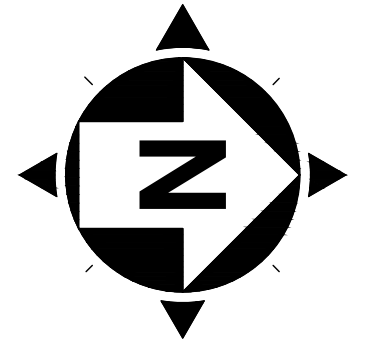
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO

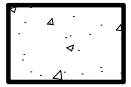
ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

WESTMINSTER LANE

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	P-3
SHEET OF	6 21



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.

DOUBLE CURB/INLET
UP TO GRADE



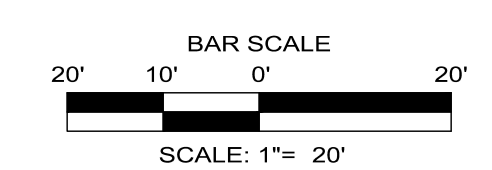
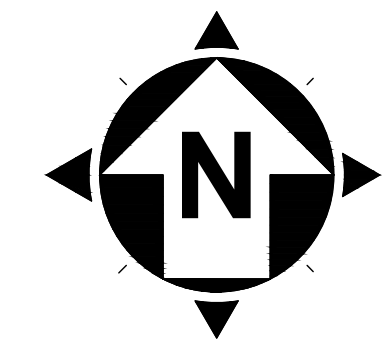
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO

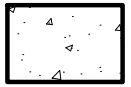
ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

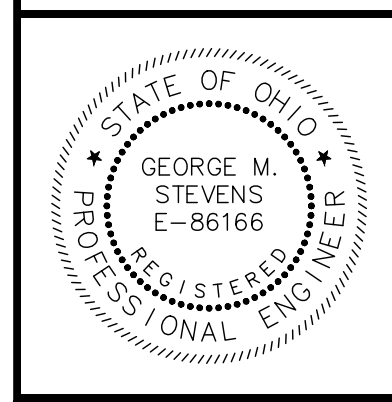
WESTMINSTER LANE AND
TRAFALGAR SQUARE

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	P-4
SHEET	7
OF	21



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



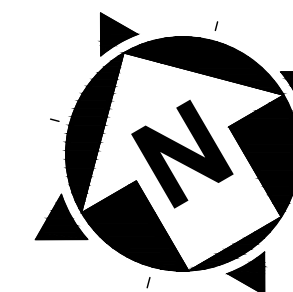
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO

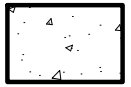
ISSUED FOR: BID SET
 ISSUE DATE: JUNE 2026
 SCALE: AS SHOWN
 DESIGNED BY: GMS
 DRAWN BY: TWB
 CHECKED BY: GMS

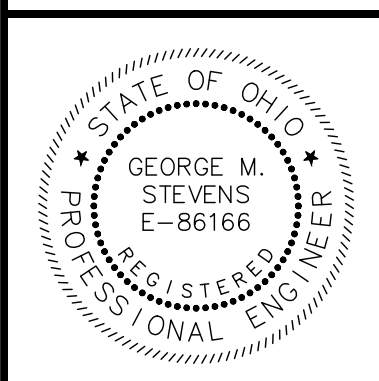
WESTMINSTER LANE

PROJECT NO.		47809
DISCIPLINE		CIVIL
SHEET NAME		P-5
SHEET	OF	
8	21	



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



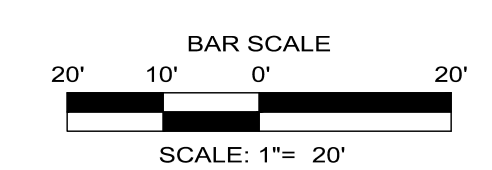
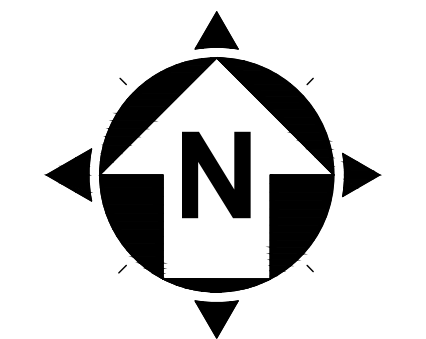
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO

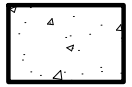
ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

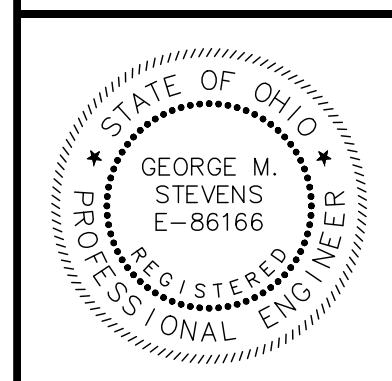
PICCADILLY SQUARE

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	P-6
SHEET	9
OF	21



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



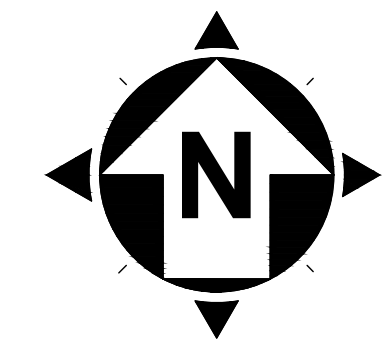
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
LAKE COUNTY, OHIO

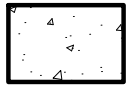
ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

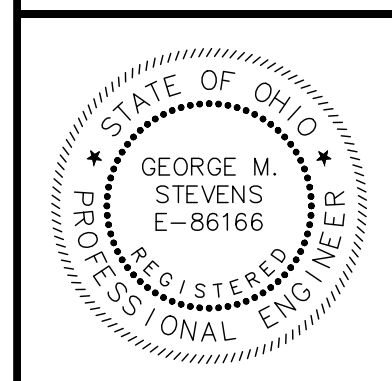
BRIGHTON PATH

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	P-7
SHEET	10
OF	21



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



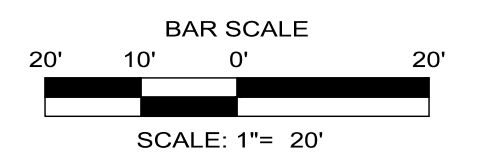
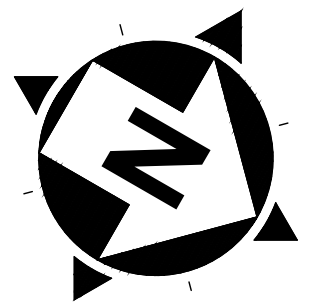
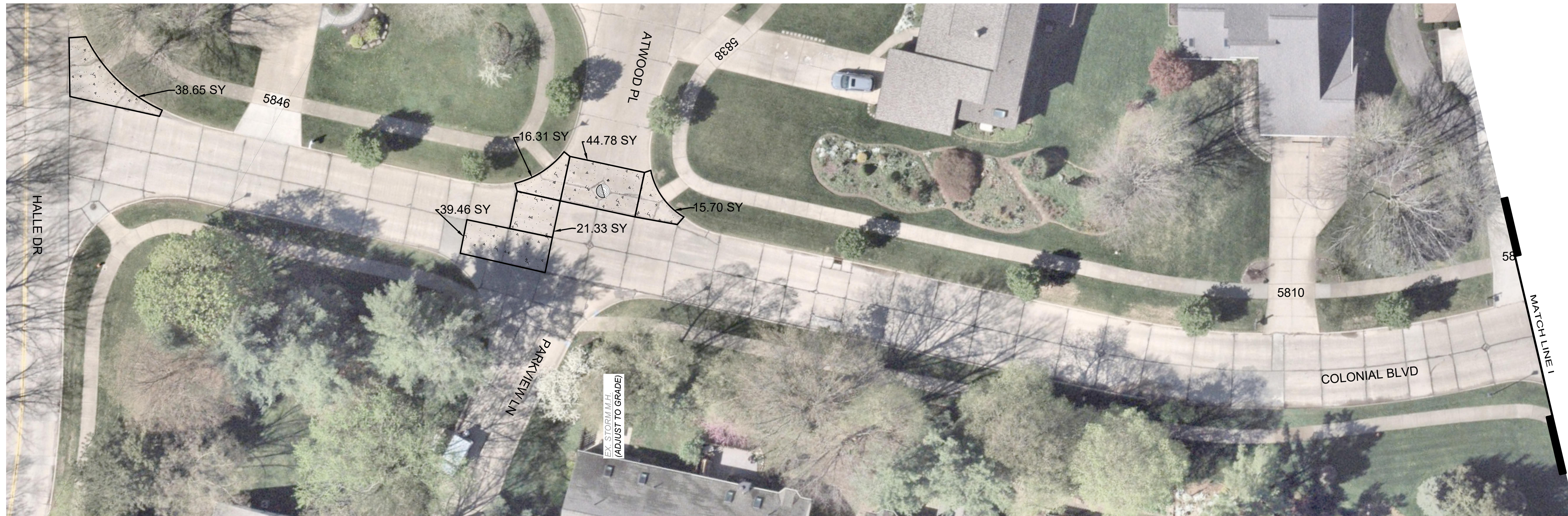
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO


ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

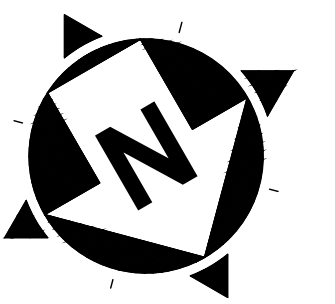
BRIGHTON PATH

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	P-8
SHEET	11
OF	21



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



SEE NEXT SHEET FOR NORTHERN SECTION



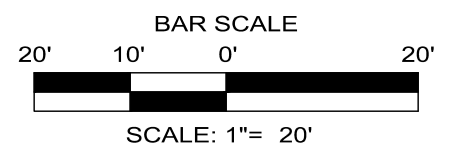
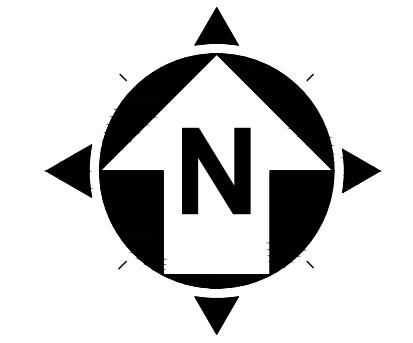
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
LAKE COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

COLONIAL BOULEVARD

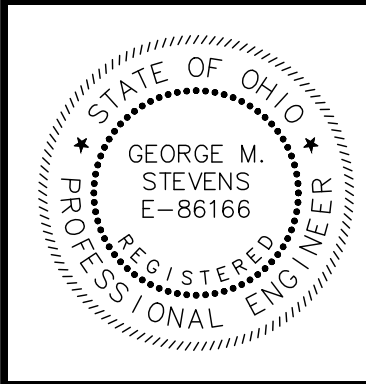
PROJECT NO.		47809
DISCIPLINE		CIVIL
SHEET NAME		P-9
SHEET	OF	
12	21	



LEGEND

FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.

SEE PREVIOUS SHEET FOR SOUTHERN SECTION



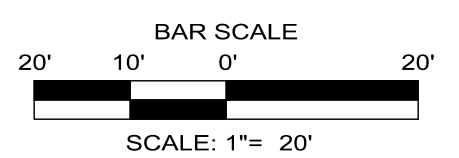
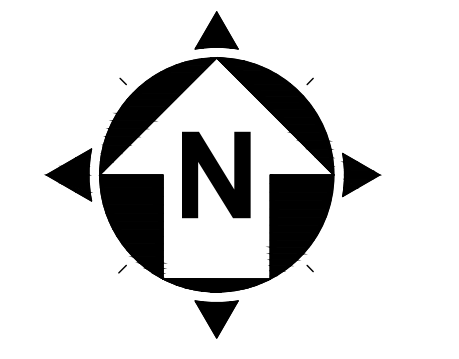
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
LAKE COUNTY, OHIO

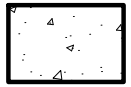
ISSUED FOR: BID SET
 ISSUE DATE: JUNE 2026
 SCALE: AS SHOWN
 DESIGNED BY: GMS
 DRAWN BY: TWB
 CHECKED BY: GMS

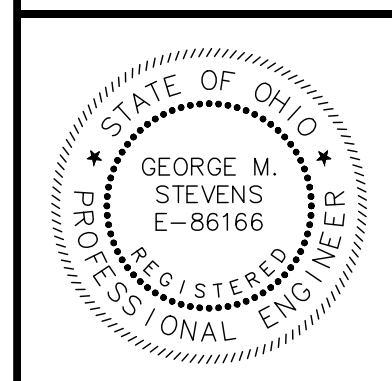
COLONIAL BOULEVARD

PROJECT NO.		47809
DISCIPLINE		CIVIL
SHEET NAME		P-10
SHEET	OF	
13	21	



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



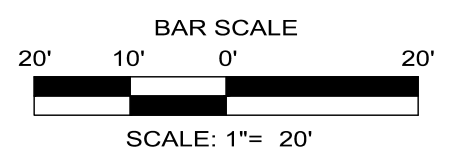
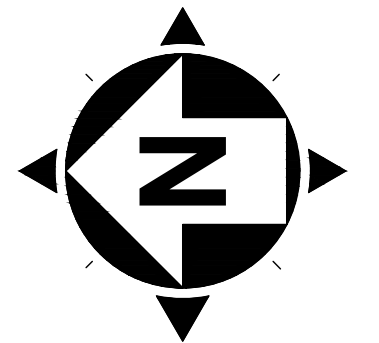
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
LAKE COUNTY, OHIO

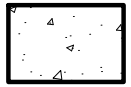
ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

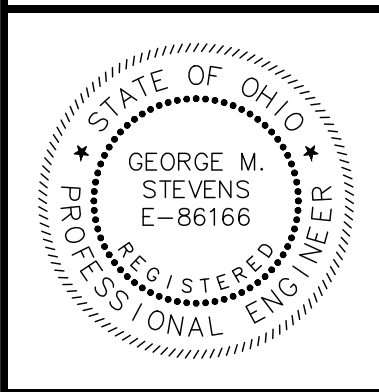
COLONIAL BOULEVARD

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	P-11
SHEET OF	14 21



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



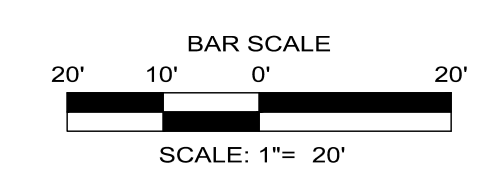
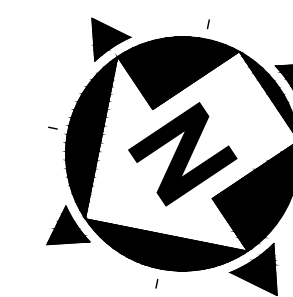
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
LAKE COUNTY, OHIO

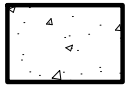
ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

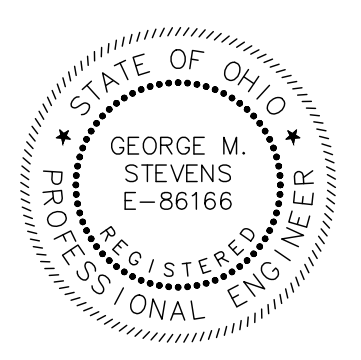
HARTSHIRE DRIVE

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	P-12
SHEET OF	15 21



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



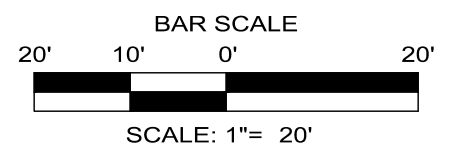
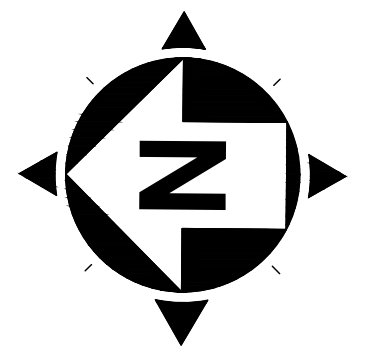
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO

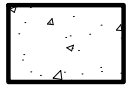
ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

HARTSHIRE DRIVE

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	P-13
SHEET	16
OF	21



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T-8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



MATCH LINE M



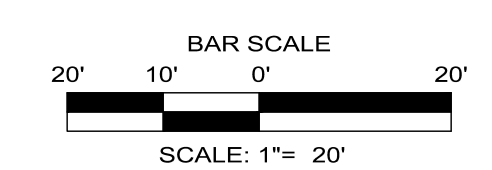
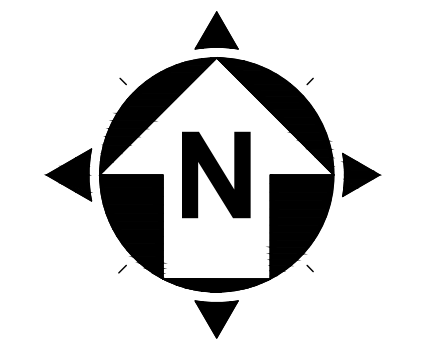
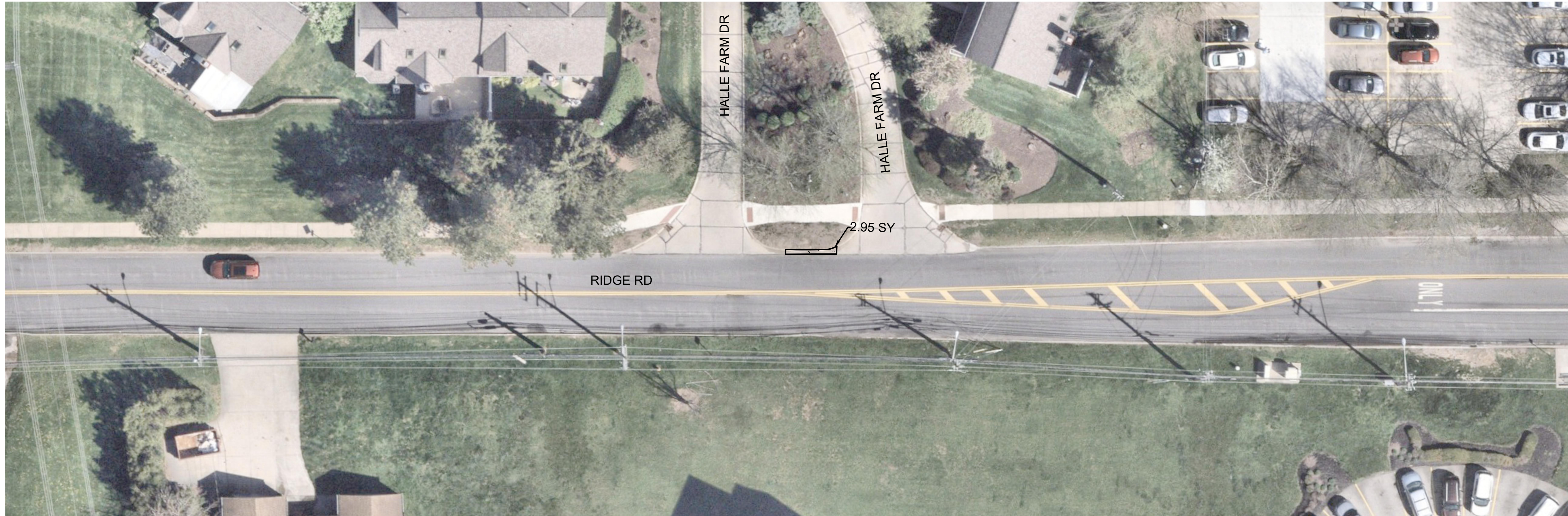
NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO

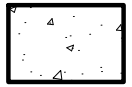
ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

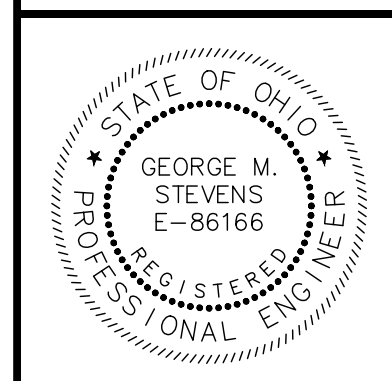
HARTSHIRE DRIVE

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	P-14
SHEET	17
OF	21



LEGEND

 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN. LOCATIONS TO BE FIELD VERIFIED.



NO	REVISION	DATE

CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT
 LAKE COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	JUNE 2026
SCALE:	AS SHOWN
DESIGNED BY:	GMS
DRAWN BY:	TWB
CHECKED BY:	GMS

RIDGE RD

PROJECT NO.		47809
DISCIPLINE		CIVIL
SHEET NAME		P-15
SHEET	OF	
18	21	

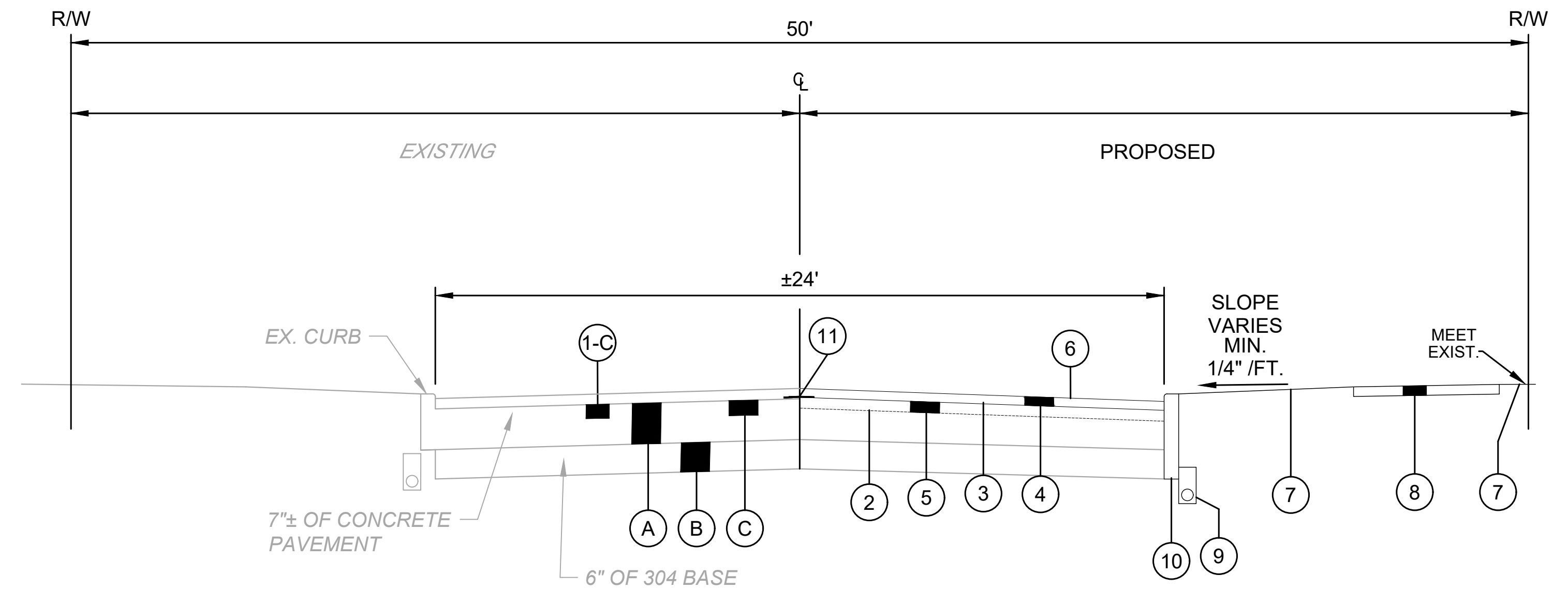
- ①-A 3" ASPHALT PLANING, AS PER PLAN
- ①-B VARIABLE DEPTH ASPHALT PLANING
- ①-C VARIABLE DEPTH CONCRETE PLANING, 2.0" AT GUTTER AND 0.5" AT CROWN
- ② ITEM 407 TACK COAT, TRACKLESS TACK (APPLICATION RATE PER ODOT TABLE 407.06-1)
- ③ PAVEMENT REINFORCING FABRIC, AS SPECIFIED, INCL. TACK COAT
- ④ 1 3/4" ITEM 448 A.C. SURFACE COURSE, TYPE 1, PG 64-22 (ALL VIRGIN MATERIAL)
- ⑤ 1 1/4" ITEM 448 A.C. INTERMEDIATE COURSE, TYPE 1, PG 64-22 (MAXIMUM 25% R.A.P.)
- ⑥ APPLY CONSTRUCTION SEAL IMMEDIATELY AFTER SURFACE COURSE INSTALLATION

NOTE: PAVEMENT PLANING/GRINDING SHALL INCLUDE THE CLEANUP/REMOVAL OF THIN/LOOSE SHEETS OF ASPHALT (IF ANY). NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS REMOVAL REGARDLESS OF THE TIME PERIOD BETWEEN GRINDING AND RESURFACING.

TYPICAL SECTION LEGEND

- ⑦ ITEM-SPECIAL LAWN RESTORATION, INCLUDING ITEM 653 4" TOPSOIL FURNISHED AND PLACED
- ⑧ ITEM 608 CONCRETE WALK INCLUDING ITEM 310 GRANULAR SUBBASE AND ITEM 202 WALK REMOVED, AS DIRECTED (AT LOCATIONS SHOWN ON PLAN)
- ⑨ UNDERDRAIN REPLACEMENT, AS DIRECTED
- ⑩ TYPE 6 CURB, AS DIRECTED
- ⑪ ITEM 872 VOID REDUCING ASPHALT MEMBRANE

- Ⓐ ITEM 255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, T=8", AS PER PLAN, AS DIRECTED
- Ⓑ ITEM 204 EXCAVATION OF SUBGRADE AND EMBANKMENT WITH GRANULAR MATERIAL, CCS, AS DIRECTED
- Ⓒ ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR, AS DIRECTED



**EXISTING CONCRETE STREETS
TYPICAL SECTION**



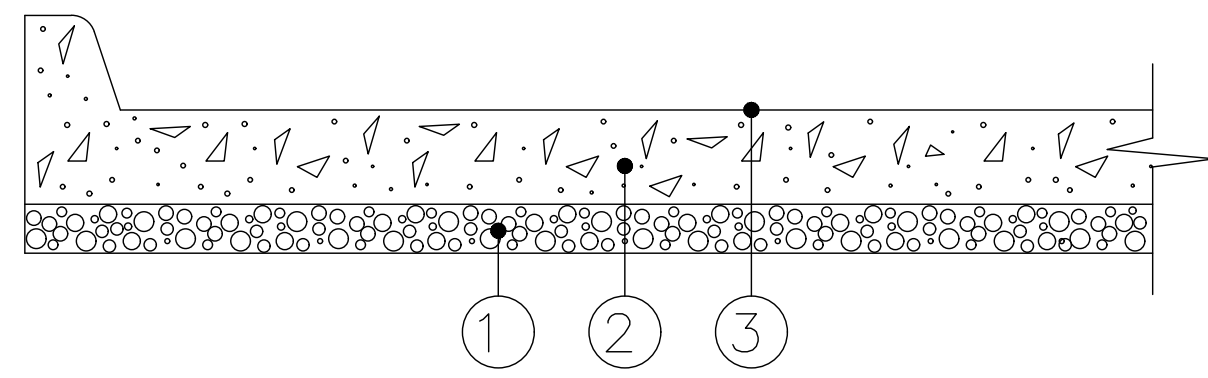
NO	REVISION	DATE

CITY OF WILLOUGHBY
**2026 CONCRETE PAVEMENT
 SLAB REPLACEMENT**
 LAKE COUNTY, OHIO

ISSUED FOR: BID SET
 ISSUE DATE: JUNE 2026
 SCALE: AS SHOWN
 DESIGNED BY: GMS
 DRAWN BY: TWB
 CHECKED BY: GMS

TYPICAL SECTIONS

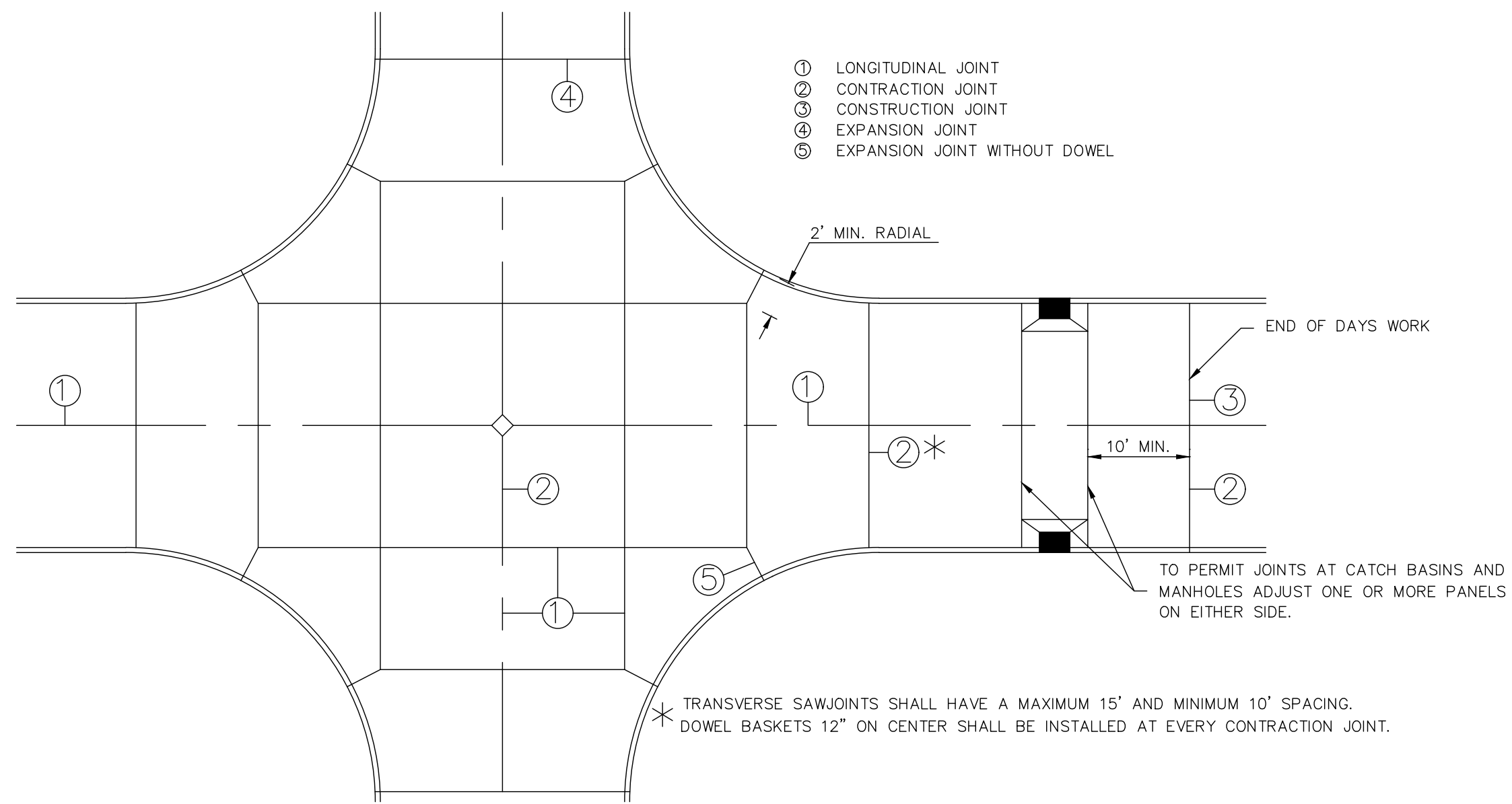
PROJECT NO. 47809	
DISCIPLINE CIVIL	
SHEET NAME TS-1	
SHEET 19	OF 21



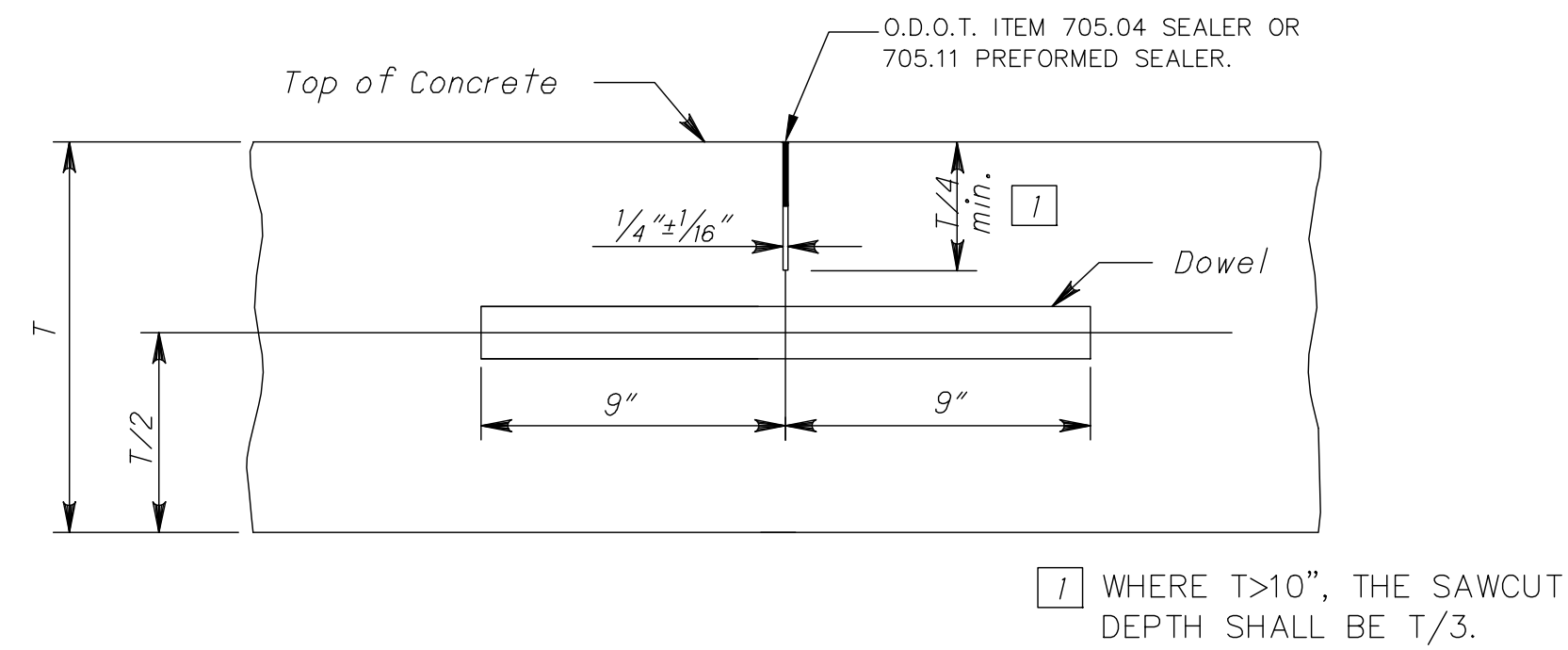
- ① 3" ODOT ITEM 304 COMPACTED LIMESTONE AGGREGATE BASE (NO SLAG OR RECYCLED MATERIAL)
- ② 8" MIN. ODOT ITEM 255 INCLUDING INTEGRAL CURB, DOWEL/HOOK BOLT INSTALLATION, AND MACRO SYNTHETIC FIBER REINFORCEMENT "TUF-STRAND SF" AT 3LBS/CY OR APPROVED EQUAL MEETING REQUIREMENTS OF ASTM C1116.
- ③ CURING COMPOUND PER ODOT 705.07

- NOTES:
- EXCAVATION AND REMOVAL OF EXISTING PAVEMENT AND 3" OF SUBGRADE SHALL BE INCLUDED IN THE UNIT PRICE OF ITEM 255.
 - PREP, INSTALLATION, AND COMPACTION OF 3" OF ODOT ITEM 304 SHALL BE INCLUDED IN THE PRICE OF ITEM 255.
 - INSTALLATION AND REMOVAL OF INTEGRAL CURB SHALL BE INCLUDED IN THE PRICE OF ITEM 255.
 - FOR ALL PAVEMENT REPAIRS, ASPHALT AND/OR CONCRETE PAVEMENT SHALL BE FULL DEPTH SAWCUT.
 - ALL JOINTS SHALL BE SEALED WITH HOT APPLIED SEALER - ASTM D6690 TYPE 2.
 - HOOK BOLTS SHALL BE INSTALLED AT 18" O/C ALONG ALL LONGITUDINAL JOINTS.
 - DOWELS SHALL BE INSTALLED AT 12" O/C ALONG ALL TRANSVERSE JOINTS.
 - IN NO CASE SHALL PAVEMENT THICKNESS BE LESS THAN EXISTING.
 - CONCRETE JOINT REPLACEMENT WIDTH SHALL BE 2.5 TO 3.0 FEET WIDE, NOMINAL.

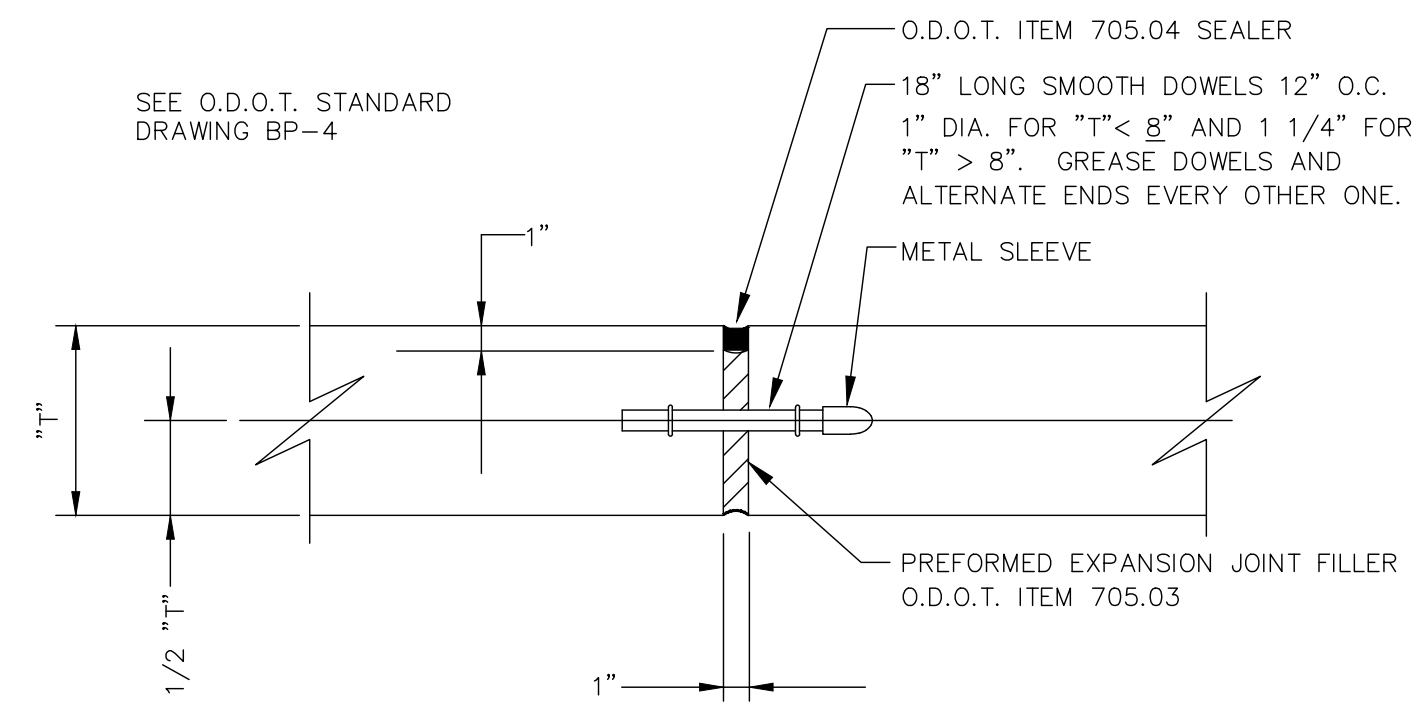
**FULL DEPTH CONCRETE REPAIR
(ITEM 255)**



TYPICAL JOINT DETAIL

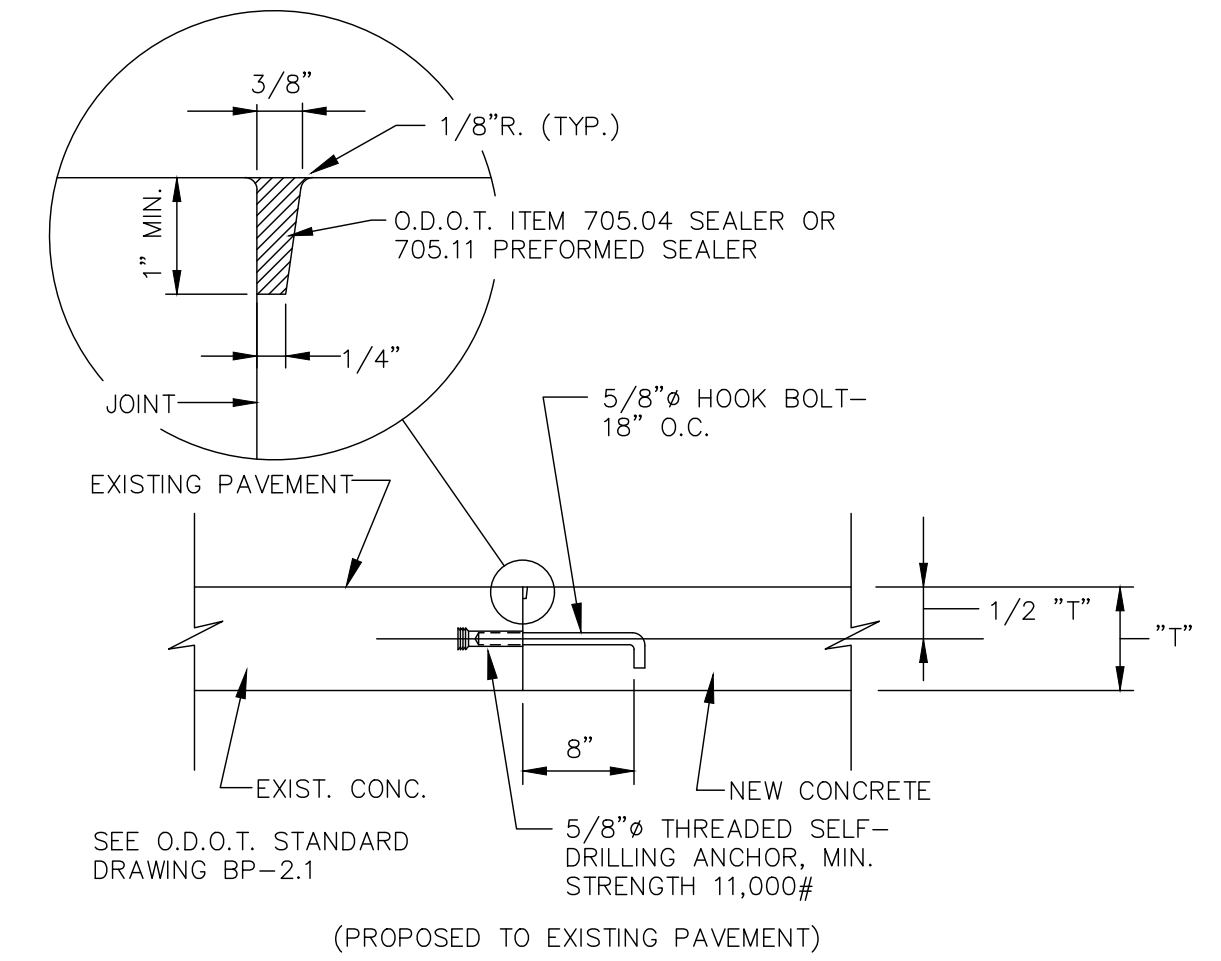


CONTRACTION JOINT

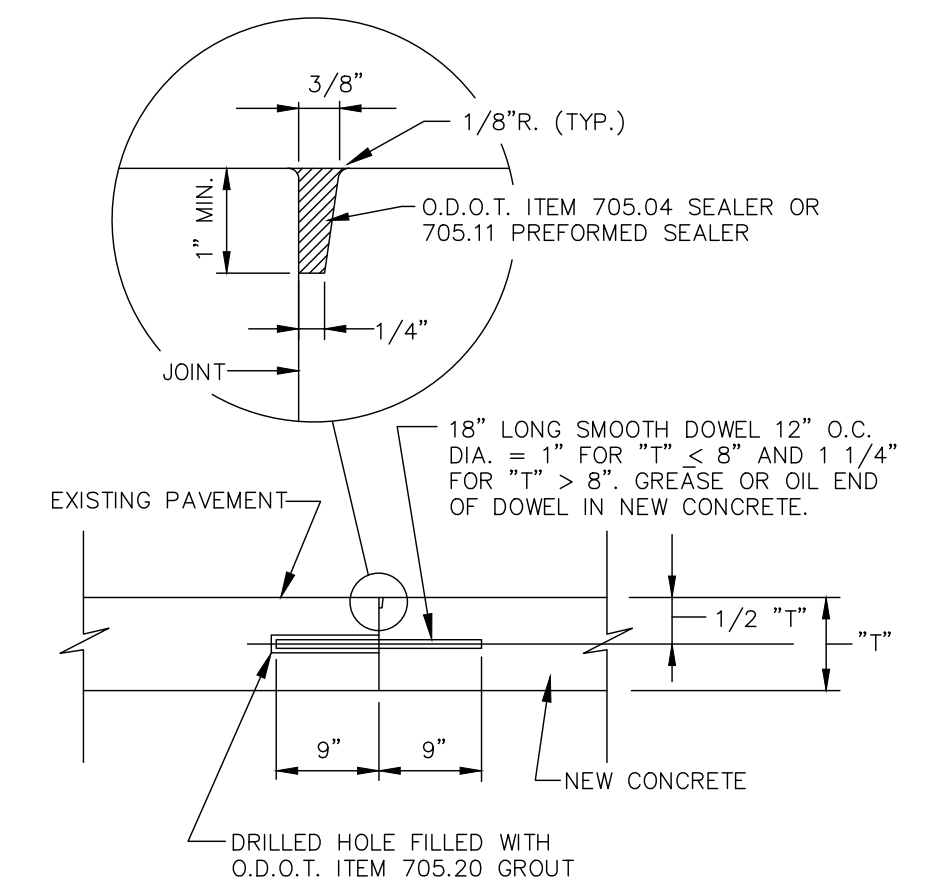


NOTE: EXPANSION JOINTS SHALL BE USED AT ALL INTERSECTIONS AND WHERE DESIGNATED ON THE PLANS OR BY THE ENGINEER.

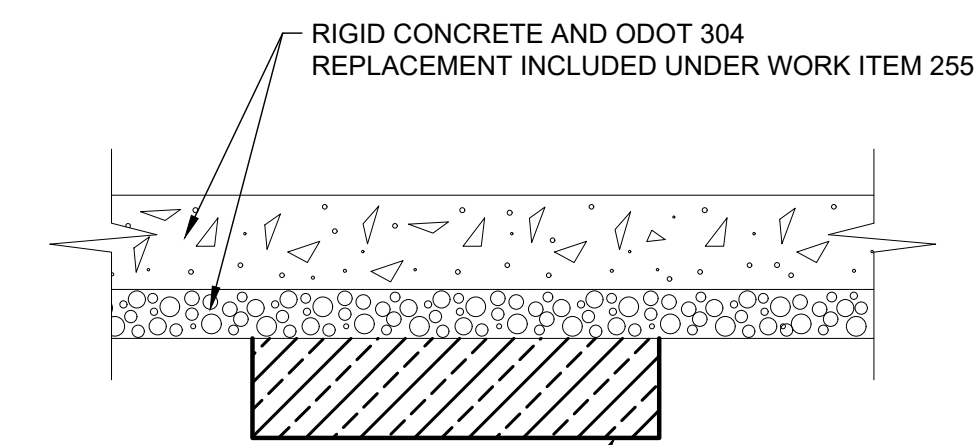
EXPANSION JOINT



LONGITUDINAL BUTT JOINT



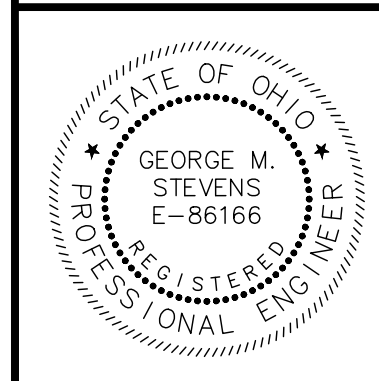
**TRANSVERSE BUTT JOINT
(CONNECT TO EX. CONCRETE)**



COMPACTED ODOT 304 STONE AND GEOTEXTILE FABRIC PER ODOT 712.09, TYPE D. DEPTH OF UNDERCUT AND AREA SHALL BE AS DIRECTED BY THE ENGINEER IN ORDER TO REPLACE UNSTABLE MATERIAL

**ADDITIONAL SUBGRADE
REPLACEMENT DETAIL
(ITEM 204)**

NOTE: ITEM SHALL BE USED AS DIRECTED



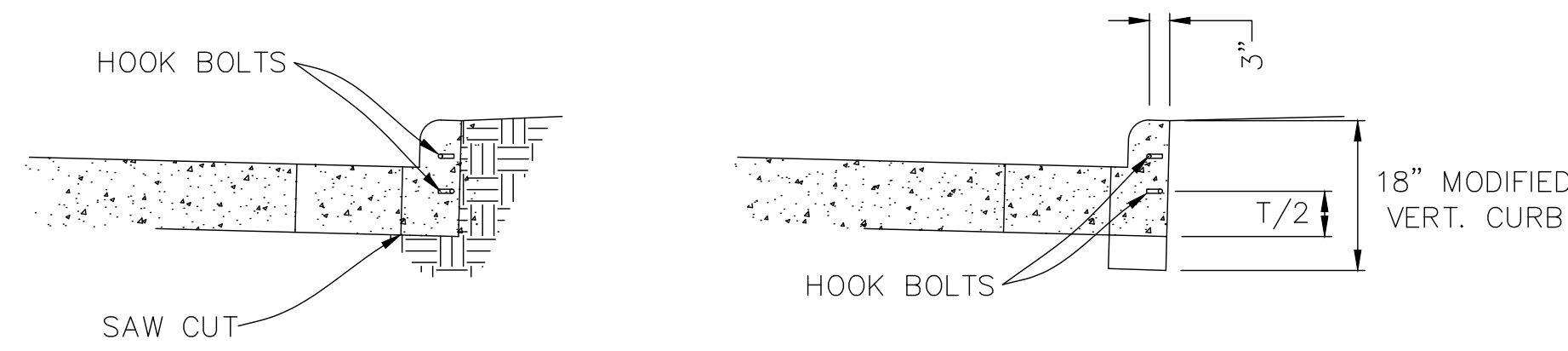
NO	REVISION	DATE

CITY OF WILLOUGHBY
**2026 CONCRETE PAVEMENT
SLAB REPLACEMENT**
LAKE COUNTY, OHIO

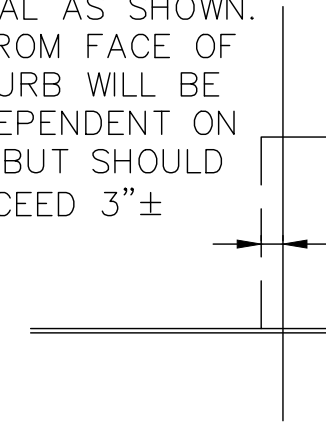
ISSUED FOR: BID SET
ISSUE DATE: JUNE 2026
SCALE: AS SHOWN
DESIGNED BY: GMS
DRAWN BY: TWB
CHECKED BY: GMS

DETAILS

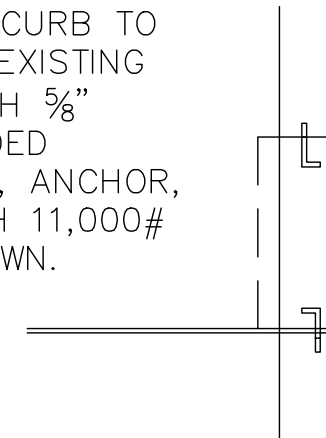
PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	D-1
SHEET	20
OF	21



NOTE: SAWCUTTING FOR CURB REMOVAL AS SHOWN. DISTANCE FROM FACE OF EXISTING CURB WILL BE VARIABLE DEPENDENT ON SAW USED BUT SHOULD NOT EXCEED 3"±



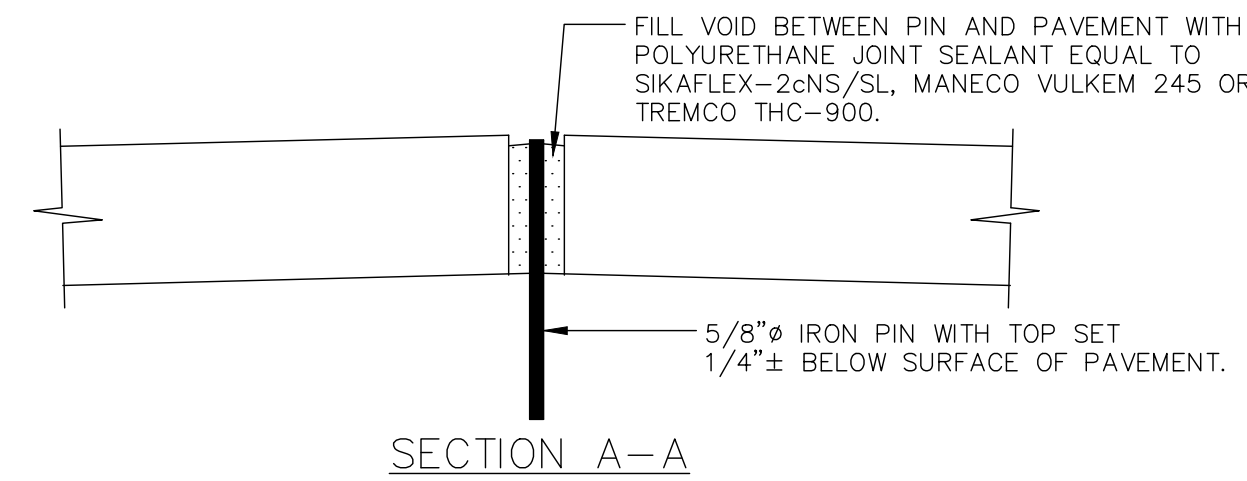
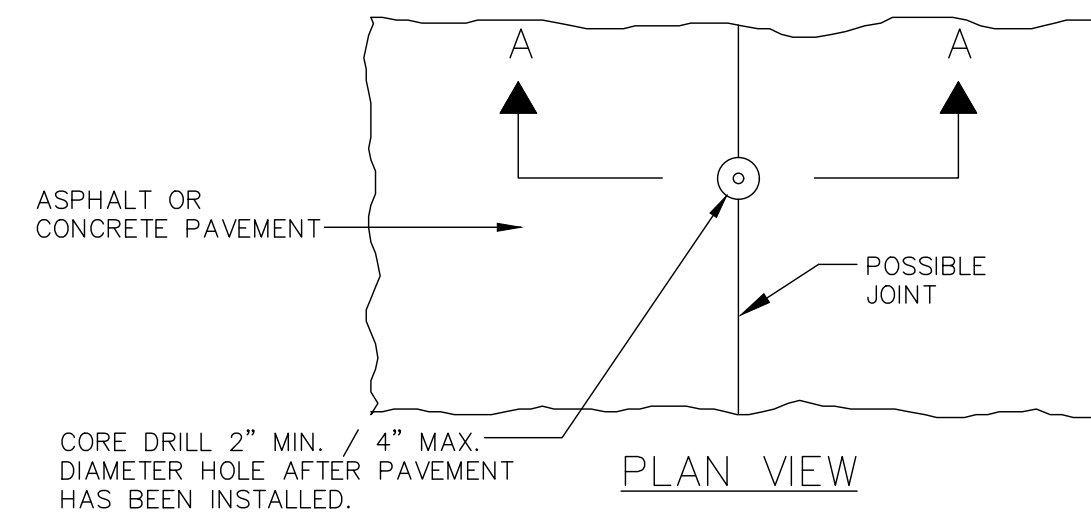
NOTE: NEW CURB TO BE TIED TO EXISTING CURB WITH 5/8" THREADED SELF-DRILLING ANCHOR, MIN STRENGTH 11,000# AS SHOWN.



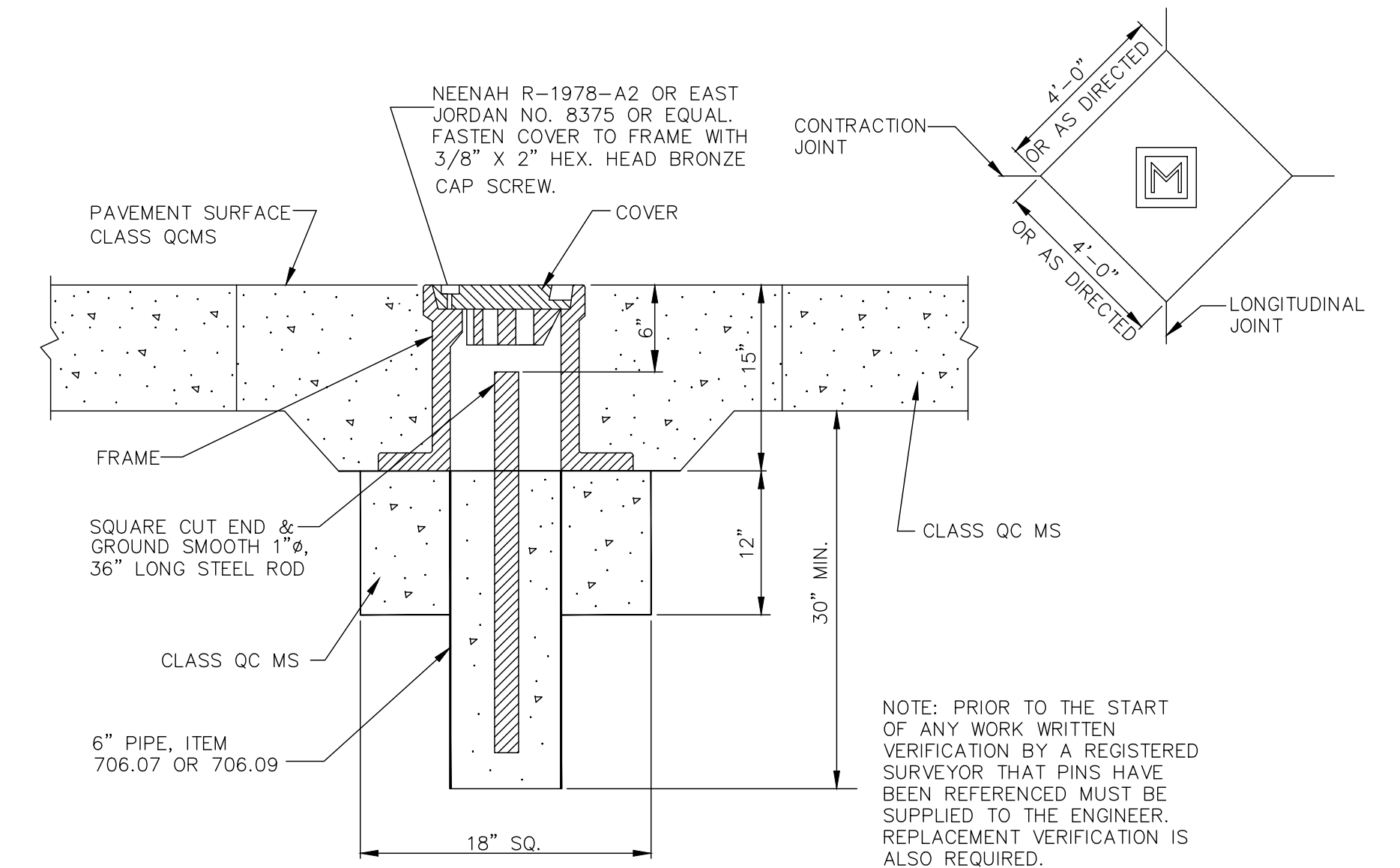
NOTE: INSTALLATION AND REMOVAL OF INTEGRAL CURB SHALL BE INCLUDED IN THE PRICE OF ITEMS 255.

TYPICAL CURB REPLACEMENT AT CONCRETE STREETS WITH 6" VERTICAL CURB

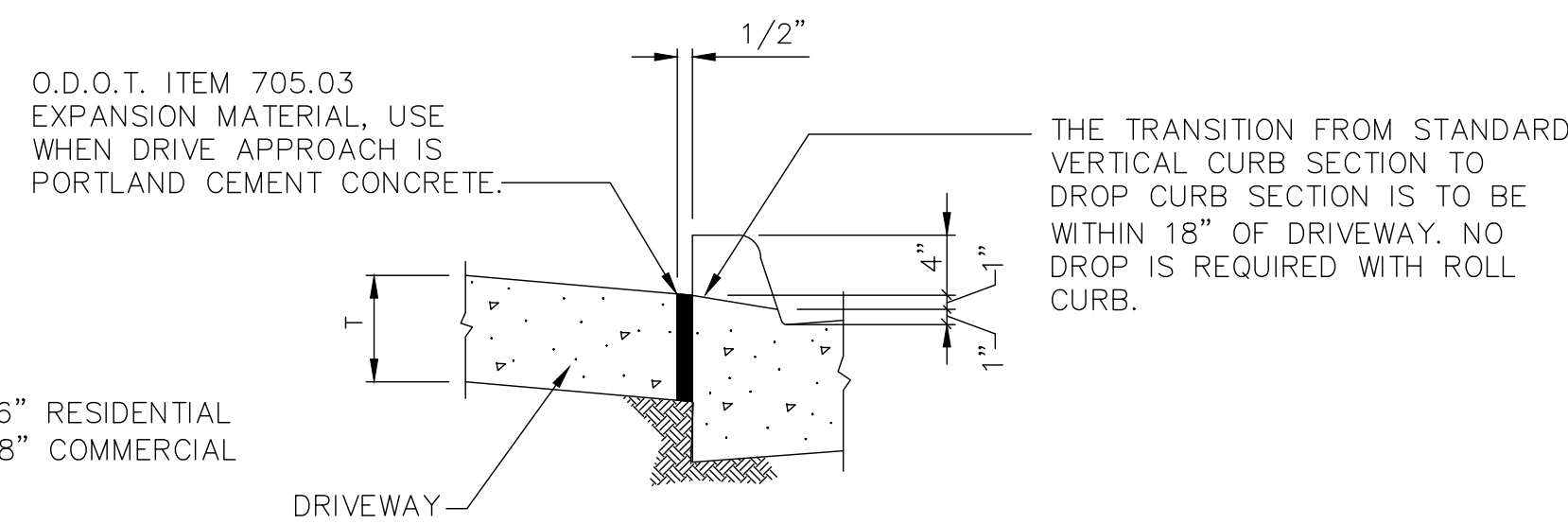
NOTE: ITEM SHALL BE USED AS DIRECTED



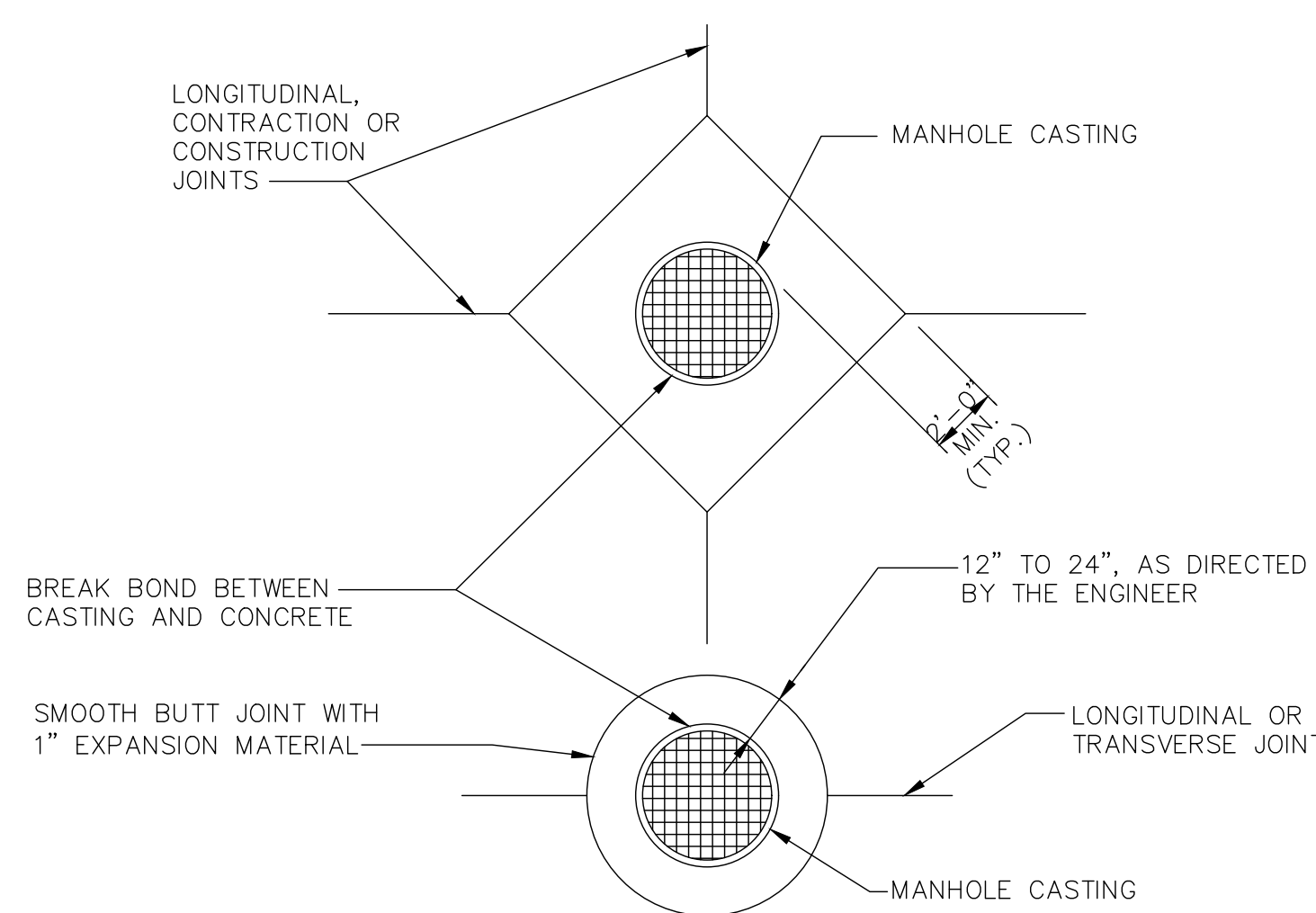
BOXLESS PAVEMENT MONUMENT



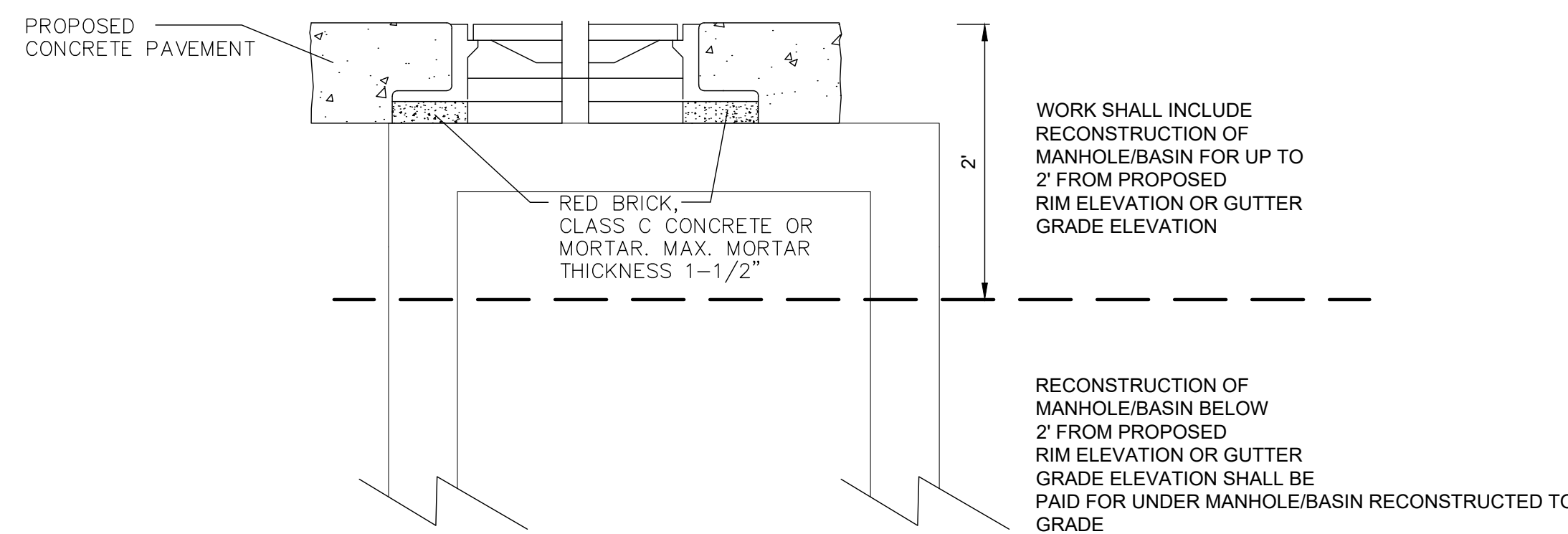
MONUMENT ASSEMBLY DETAIL



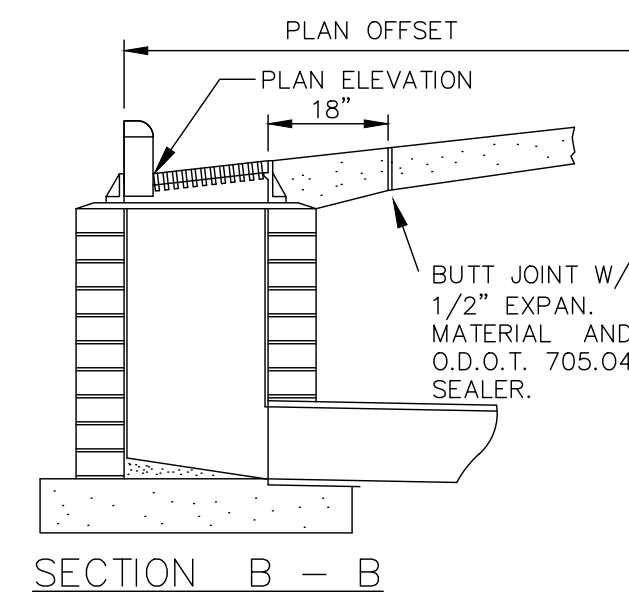
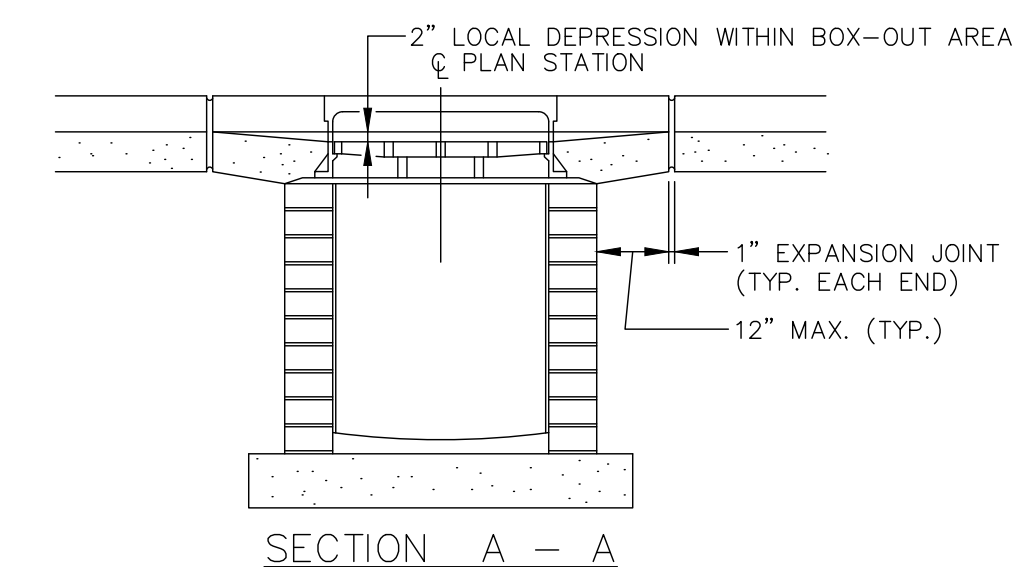
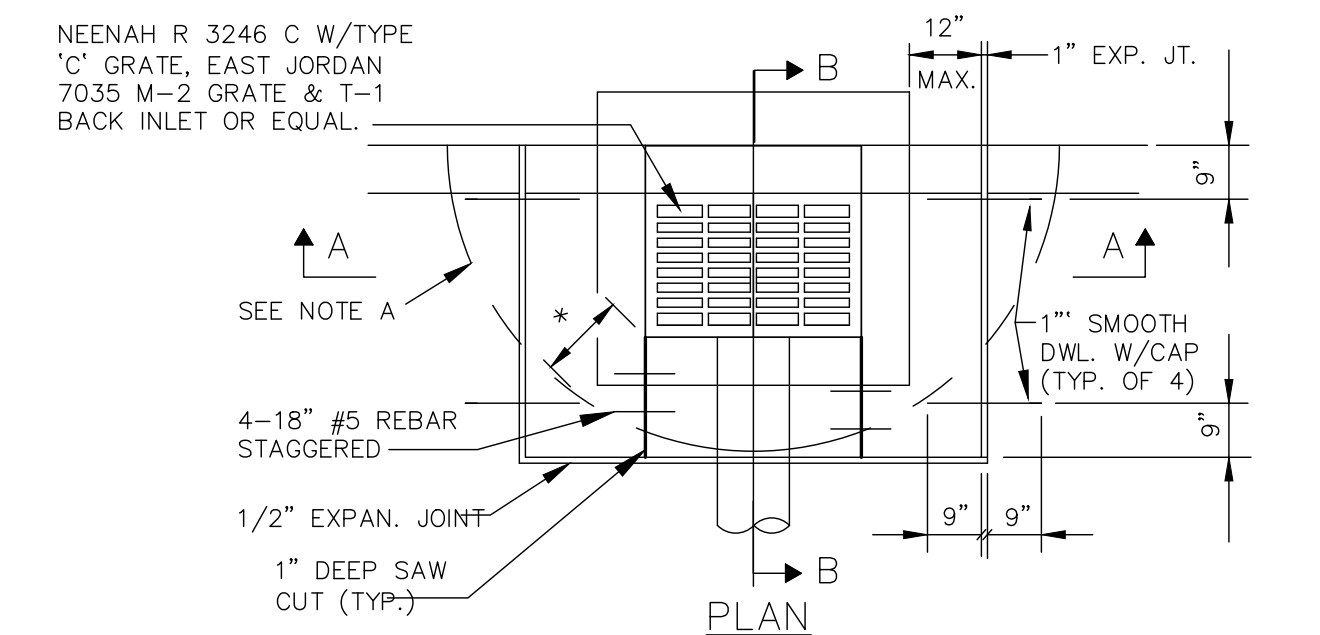
DROP CURB DETAIL AT DRIVEWAY



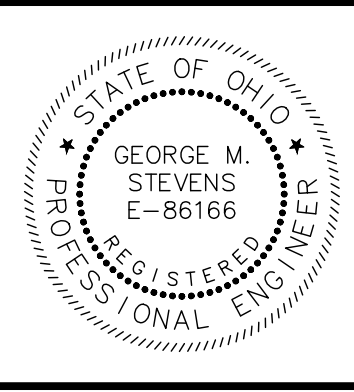
MANHOLE BOX OUT DETAIL



M.H.I.B. ADJUSTED TO GRADE



CATCH BASIN BOX OUT DETAIL



NO	REVISION	DATE

**CITY OF WILLOUGHBY
2026 CONCRETE PAVEMENT
SLAB REPLACEMENT**

LAKE COUNTY, OHIO

ISSUED FOR: BID SET
ISSUE DATE: JUNE 2026
SCALE: AS SHOWN
DESIGNED BY: GMS
DRAWN BY: TWB
CHECKED BY: GMS

DETAILS

PROJECT NO.	47809
DISCIPLINE	CIVIL
SHEET NAME	D-2
SHEET	21
OF	21