

# THE CITY OF WILLOWICK

## 2026 ROAD PROGRAM

### LAKE COUNTY, OHIO



#### CITY COUNCIL:

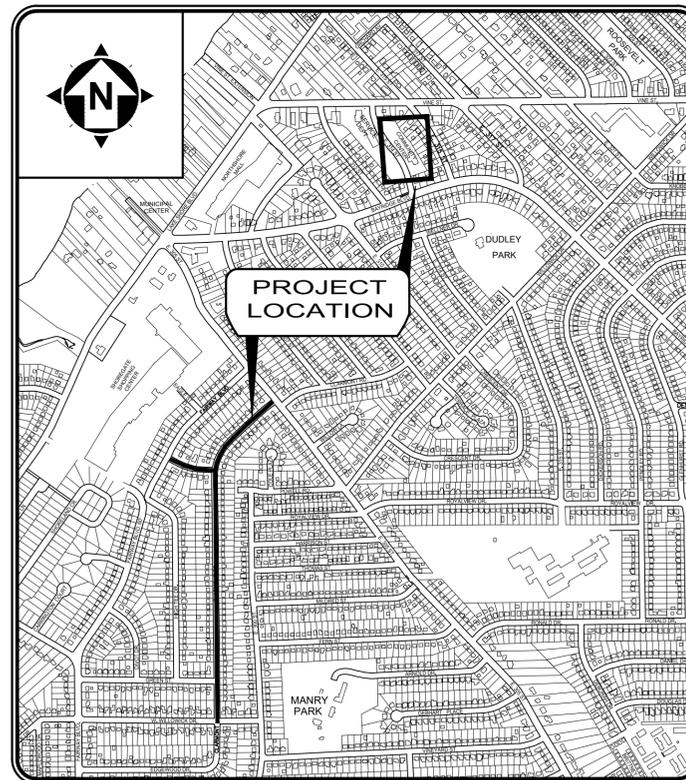
MS. MONICA KOUDELA	COUNCIL PRESIDENT
MR. PATRICK MOHORCIC	COUNCIL MEMBER, WARD 1
MR. DEVON MCFARLAND	COUNCIL MEMBER, WARD 1
MS. NATALIE ANTOSH	COUNCIL MEMBER, WARD 2
MS. THERESA BISBEE	COUNCIL MEMBER, WARD 2
MR. CHARLIE MALTA	COUNCIL MEMBER, WARD 3
MR. DAVID PHARES	COUNCIL MEMBER, WARD 3



#### OHIO 811 DESIGN SERIAL NUMBERS & UTILITY MEMBER LIST:

1. THE ILLUMINATING COMPANY
  2. DOMINION ENERGY OHIO
  3. LAKE COUNTY DEPARTMENT OF UTILITIES
  4. AT&T OHIO
  5. THE CITY OF WILLOWICK
1. 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.
  2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.

MARCH 2026



LOCATION MAP

N.T.S.

#### OWNER:

THE CITY OF WILLOWICK  
30435 LAKESHORE BOULEVARD  
WILLOWICK, OH 44095  
(440) 585-3700 PHONE

#### PROJECT SITE:

THIS PROJECT CONSISTS OF ROAD REHABILITATION AND CATCH BASIN REPLACEMENT ON CLARMONT DRIVE & BUNKER AVE. WILLOWICK, OHIO. THE ALTERNATE INCLUDES RESURFACING OF THE EXISTING ASPHALT CONCRETE PARKING LOT, ADA CURB RAMP IMPROVEMENTS, AND STORM SEWER IMPROVEMENTS IN THE WILLOWICK SENIOR CENTER PARKING LOT.

#### CITY OFFICIALS:

MR. MICHAEL J. VANNI	CITY MAYOR/ SAFETY DIRECTOR
MR. TODD SHANNON	SERVICE DIRECTOR
MS. CHERYL BENEDICT	FINANCE DIRECTOR
MS. MANDY GWIRTZ	LAW DIRECTOR
MS JULIE KLESS	DIRECTOR OF RECREATION
MR. ROB DAUBEMIRE	POLICE CHIEF
MR. BILL MALOVRH	FIRE CHIEF
MR. SEAN BRENNAN	CHIEF HOUSING AND ZONING INSPECTOR

#### ENGINEER:

VERDANTAS LLC  
8150 STERLING COURT  
MENTOR, OH 44060

(440) 951-9000 PHONE  
(440) 951-7487 FAX

*Timothy J. McLaughlin*

TIMOTHY J. McLAUGHLIN



P.E. No. 83985

3/5/26  
DATE



ENGINEER'S PROJECT No. 38407



NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 03/05/2025	DESIGNED BY: JPB	DRAWN BY: JPB	CHECKED BY: TJM
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CITY OF WILLOWICK  
2026 ROAD PROGRAM  
WILLOWICK, OHIO LAKE COUNTY  
GENERAL - 00 SERIES  
COVER SHEET

PROJECT NO:	
38407	
DRAWING NAME	
00G-01	
SHEET	OF
1	15

GENERAL NOTES

- 1. A PRE-CONSTRUCTION CONFERENCE SCHEDULED BY THE ENGINEER SHALL BE HELD PRIOR TO ANY WORK STARTING. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE ENGINEER AND THE OWNER PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION.
2. THE STANDARD SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, LATEST EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND STANDARD DRAWINGS, SHALL GOVERN ALL WORK NOT COVERED BY THE SPECIFICATIONS. ALL WORK CONTEMPLATED SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF THE CITY OF WILLOWICK.
3. ALL WORK COMPLETED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
4. ANY DEFECT IN MATERIAL OR WORKMANSHIP REVEALED BY INSPECTION MUST BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER AND TO THE FULL SATISFACTION OF THE OWNER AND ENGINEER BEFORE ACCEPTANCE OF THE WORK AND RELEASE OF FINAL PAY AND PAYMENT THEREOF.
5. MATERIALS OF WORK FOR "AS DIRECTED" ITEMS SHALL NOT BE ORDERED FOR THE DELIVERY TO THE PROJECT OR WORK PERFORMED UNTIL AUTHORIZED BY THE ENGINEER.
6. MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER VALVE BOXES AND OTHER CASTINGS SHALL BE RAISED OR LOWERED FLUSH WITH THE FINISHED SURROUNDING SURFACE. ANY METER OR VALVE BOX ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED AND ADJUSTED TO GRADE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "VALVE BOX ADJUSTED TO GRADE, AS PER PLAN"
7. BEFORE THE OWNER WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR SHALL FURNISH THE OWNER A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTOR HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
8. THE CONTRACTOR SHALL PROVIDE A PRE-CONSTRUCTION VIDEO TAPE SURVEY OF THE ENTIRE PROJECT AREA. ANY DAMAGE DEEMED TO HAVE BEEN CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THEIR OWN EXPENSE. ALL COSTS ASSOCIATED FOR THIS WORK, INCLUDING THE VIDEO TAPE SURVEY, SHALL BE INCLUDED IN THE PRECONSTRUCTION VIDEO DOCUMENTATION BID ITEM.
9. MATERIAL SPECIFICATIONS CALLED FOR ON THE PLANS REPRESENT THE MINIMUM REQUIRED FOR EACH APPLICATION. THE OWNER MAY REQUEST OR THE CONTRACTOR MAY DESIRE TO SUBSTITUTE ALTERNATE MATERIALS. ANY SUCH SUBSTITUTIONS MUST BE EQUIVALENT IN QUALITY TO THE MATERIAL CALLED FOR AND MUST BE APPROVED IN WRITING BY THE ENGINEER.
10. CONTRACTOR SHALL REPLACE TRAFFIC PAINT IN KIND WITHIN RESURFACE LIMITS OR WHERE NOTED ON PLANS. THIS SHALL BE INCLUDED AS A PART OF THE LUMP SUM BID ITEM TRAFFIC PAINT, AS PER PLAN.

ROADWAY EXCAVATION AND PAVEMENT

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES PROOF ROLL TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF PAVEMENT. WORK WILL NOT BEGIN UNTIL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE ENGINEER.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE BARRICADE DEVICES TO PREVENT VEHICULAR TRAFFIC ON NEW CONCRETE PAVEMENT AND APRONS UNTIL THE END OF THE CURE PERIOD. ALL CONCRETE WORK NOTED IN THE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, ITEM 499.
3. JOINT AND CRACK SEALER FOR PAVEMENT SHALL MEET THE REQUIREMENTS OF ODOT ITEM 705.04 AND ASTM D 3405. A DOUBLE BOILER SHOULD BE USED FOR HEATING THE MATERIAL.

EXISTING UTILITIES

- 1. BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE", AT 1-800-362-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. THE FOLLOWING REFERENCE NUMBERS HAVE BEEN ASSIGNED TO THIS PROJECT BY THE OHIO UTILITIES PROTECTION SERVICE. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE CITY OF WILLOWICK, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE CITY OF EASTLAKE, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS LISTED BELOW AND THE UTILITY PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE AND OUTLINED IN PROJECT SPECIFICATIONS. THE UTILITY OWNERSHIPS ARE AS FOLLOWS:
DOMINION ENERGY OHIO (GAS) LAKE COUNTY DEPARTMENT OF UTILITIES
320 SPRINGDALE DRIVE, STE 320 105 MAIN STREET
AKRON, OHIO 44333 PAINESVILLE, OHIO 44077
PHONE: (330) 664-2409 PHONE: (440) 350-2645
ATTN: BRYAN D. DAYON ATTN: RANDY ROTHLSBERGER, P.E.
GENERAL PHONE: (800) 362-7557
RELOCATION@DOMINIONENERGY.COM THE ILLUMINATING COMPANY (ELECTRIC)
7755 AUBURN ROAD
PAINESVILLE, OHIO 44077
ATTN: TIM DENZLER (DESIGN SUPERVISOR)
PHONE: (440) 358-4991
TIDENZLER@FIRSTENERGYCORP.COM
AT&T OHIO (COMMUNICATIONS) TODD SHANNON
13630 LORAIN ROAD, 2ND FLOOR CITY OF WILLOWICK SERVICE DIRECTOR
CLEVELAND, OHIO 44111 PHONE: (440) 358-4991
PHONE: (330) 401-8053 TIDENZLER@FIRSTENERGYCORP.COM
ATTN: JOHN ROOK WILLLOWICK, OHIO 44095
DIRECT: (212) 476-6142 TODD SHANNON
GENERAL PHONE: (216) 298-1513 CITY OF WILLOWICK SERVICE DIRECTOR
PJ8191@ATT.COM PHONE: (440) 585-3700
3. WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE THEIR WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST AND COORDINATION FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL NOT BE THE RESPONSIBILITY OF THE CITY OF WILLOWICK. DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.

4. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES AFFECTED BY THE PROPOSED CONSTRUCTION.

GRASS RESTORATION

- 1. PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL INVENTORY TREELAWNS FOR EXISTING ORNAMENTAL LANDSCAPE FEATURES INCLUDING LAWN SPRINKLER SYSTEMS AND IRON PINS. ANY LANDSCAPE FEATURE DISTURBED OR DAMAGED BY THE CONTRACTOR'S ACTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION. COST OF INVENTORY AND RESTORATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR LAWN RESTORATION.
2.

EROSION AND DUST CONTROL

- 1. SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY SEEDING AND MULCHING IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN ACCORDANCE WITH ODOT ITEM 659 OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL BEGIN THE RESTORATION PROCESS AS SOON AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZING EACH DISTURBED AREA WITH PERENNIAL VEGETATION INSTALLED ACCORDING TO SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS OR DRIVES BY THEIR EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.
4. ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD PLAIN OR OTHER ENVIRONMENTALLY SENSITIVE AREA.
5. EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY WHEN NEEDED OR ORDERED BY THE OWNER WATER OR CALCIUM CHLORIDE PER ODOT 616 FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL. THE COST OF DUST CONTROL SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
7. OTHER EROSION AND SEDIMENT CONTROL PRACTICES SHALL MINIMIZE SEDIMENT LADEN WATER ENTERING ACTIVE STORM DRAIN SYSTEMS, UNLESS THE STORM DRAIN SYSTEM DRAINS TO A SEDIMENT POND. INLET PROTECTION IS MANDATORY WHERE SEDIMENT SETTLING PONDS WILL NOT BE IMPLEMENTED.

EXCESS EXCAVATION

- 1. ALL EXCESS EXCAVATION SHALL BE DISPOSED OF IN A LOCATION TO BE SELECTED BY THE CONTRACTOR. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE OWNER IF THE MATERIAL IS TO BE DISPOSED OF WITHIN THE OWNER LIMITS.

AIR/NOISE CONTROL

- 1. CONSTRUCTION ACTIVITIES WILL BE LIMITED TO MONDAY- FRIDAY, 7AM-7PM, UNLESS APPROVED IN ADVANCE BY THE CITY.

TRAFFIC CONTROL

- 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 UNLESS APRONS ARE BEING REPLACED. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNER SEVENTY-TWO (72) BUSINESS HOURS PRIOR TO DISTURBANCE OF APRONS AND PROVIDE REASONABLE ONSITE PARKING WITHIN 100' OF PROPERTY.
2. PARTIAL 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. 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.
5. THE CONTRACTOR SHALL PROVIDE, ERECT 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.
6. 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. ALL DETOUR ROUTES, SIGNAGE, AND MAINTENANCE OF TRAFFIC DEVICES SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
7. PAVEMENT REPLACEMENT SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF REPLACEMENT SECTION WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

- 1. CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC. A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. PAVERS, ROLLERS AND OTHER EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY WHEN PAVING OPERATIONS ARE SCHEDULED TO CONTINUE WITHIN THE NEXT WORKDAY; OTHERWISE THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE RW. THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG THE HIGHWAY THE EQUIPMENT SHALL BE PLACED AND DELINEATED AS PER 614.03. ALL EQUIPMENT AND STORED MATERIALS SHALL NOT CAUSE SIGNIFICANT SIGHT DISTANCE HAZARDS TO THE TRAVELING PUBLIC. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND THE PROJECT ENGINEER/SUPERVISOR HAS BEEN GRANTED.

SUSPENSION OF WORK

- 1. IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR ANY WORK, INCLUDING MAINTENANCE OF TRAFFIC, AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE MANUAL, THE ENGINEER MAY SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS. NO COMPENSATION WILL BE PAID FOR SUSPENSION OF WORK.

APRON, SIDEWALK, AND RAMP REPLACEMENT

- 4. ALL APRONS AND CURBS SHALL BE CLASS QC-MS CONCRETE WITH FIBER MESH REINFORCEMENT.
5. IF THE REPLACEMENT OF AN APRON IS NECESSARY WHEN THE OWNER RECONSTRUCTS OR RESURFACES A STREET, THE OWNER WILL REPLACE AT ITS COST THE ENTIRE APRON FOR THOSE TREE LAWNS NARROWER THAN EIGHT FEET. THE OWNER WILL REPLACE THE FIRST TWELVE FEET OF THE APRON IF THE TREE LAWN EXCEEDS EIGHT FEET IN WIDTH. IF FAULTY CONCRETE EXISTS BEYOND TWELVE FEET, THE OWNER WILL REPLACE THE CONCRETE TO THE FIRST EXPANSION OR CONTROL JOINT BEYOND TWELVE FEET. THE PROPERTY OWNER MAY, AT HIS OR HER EXPENSE, HAVE THE CONTRACTOR REPLACE THE APRON BEYOND THE FIRST TWELVE FEET WHERE THE TREE LAWN EXCEEDS EIGHT FEET IN WIDTH.
6. CONTRACTOR WILL REPLACE DRIVE APRONS INTEGRAL WITH PAVEMENT CURB TYPE 4-C.
7. SIDEWALKS, APRONS AND RAMPS SHALL BE SO CONSTRUCTED THAT THE TOP SURFACE SHALL BE MAGNESIUM FLOAT FINISH WITH A HAND CEMENT TROWEL TO PRODUCE A SWIRL PATTERN OR SOFT BROOM FINISH SO AS TO PREVENT THE SURFACE FROM BEING SLIPPERY WHEN COVERED WITH MOISTURE. SAID FINISH SHALL BE OF SUCH CHARACTER AS, IN THE JUDGMENT OF THE SERVICE DIRECTOR OR THE BUILDING INSPECTOR, WILL EFFECTUALLY PREVENT AT ANY TIME THE SLIPPERY CONDITION OF SUCH SIDEWALKS, APRONS AND RAMPS. UNDER NO CIRCUMSTANCES SHALL A "BAG MIX" OF CONCRETE OF ANY TYPE BE USED AS THE MATERIAL TO CONSTRUCT A SIDEWALK OR APRON IN THE PUBLIC RIGHT-OF-WAY.
8. ALL OUTSIDE EDGES AND JOINTS SHALL BE EDGED WITH A ONE-QUARTER INCH RADIUS TOOL. ALL JOINTS ON SIDEWALKS, APRONS AND RAMPS (TRANSVERSE OR LONGITUDINAL) SHALL BE FORMED BY SCORING WITH THE TOOL TO A DEPTH OF NOT LESS THAN THREE-FOURTHS OF AN INCH AND SHALL BE APPROXIMATELY ONE-EIGHTH OF AN INCH WIDE. EXPANSION JOINT FILLER ONE-HALF OF AN INCH THICK SHALL BE INSTALLED BETWEEN THE SIDEWALK, APRON AND RAMP AND ANY FIXED STRUCTURE, EXTENDING THE FULL DEPTH OF THE SIDEWALK, APRON AND RAMP. THE EXPANSION JOINT FILLER SHALL BE ONE INCH THICK WHERE THE SIDEWALKS, APRONS AND RAMPS ARE INSTALLED AGAINST THE BACK OF THE CURB.
9. ANY GRADING NECESSARY BETWEEN SIDEWALKS AS LAID AND THE CURB LINE, OR BETWEEN SUCH SIDEWALKS AND THE EDGE OF THE SIDEWALK SPACE AS HEREIN ESTABLISHED, SHALL BE DONE AT THE TIME OF LAYING THE SIDEWALKS SO AS TO LEAVE THE SIDEWALK SPACE AT THE GRADE HEREINAFTER DESCRIBED.
10. SIDEWALKS, AS IMPROVED, SHALL COINCIDE WITH THE LINE DESCRIBED AS FOLLOWS: BEGINNING AT THE CURB LINE WITH THE ESTABLISHED CURB GRADE AS DETERMINED BY THE CITY ENGINEER, THENCE EXTENDING TO THE STREET LINE AT RIGHT ANGLES TO THE CURB LINE, WITH A RISE OF THREE-EIGHTHS OF AN INCH TO THE FOOT, PROVIDED THAT, AT STREET INTERSECTIONS, WHERE THE GRADE OF THE INTERSECTING STREET PREVENTS COMPLIANCE WITH THE ABOVE PROVISIONS, SIDEWALKS SHALL BE LAID UNDER THE DIRECTION AND TO THE ACCEPTANCE OF THE CITY ENGINEER.
11. CURB RAMPS TO BE REPLACED SHALL BE INSTALLED IN ACCORDANCE WITH AMERICAN WITH DISABILITIES ACT (ADA) AND ODOT GUIDELINES REFERENCED ON SHEET 11. CONCRETE WALK SHALL BE REPLACED ONLY AS NEEDED.



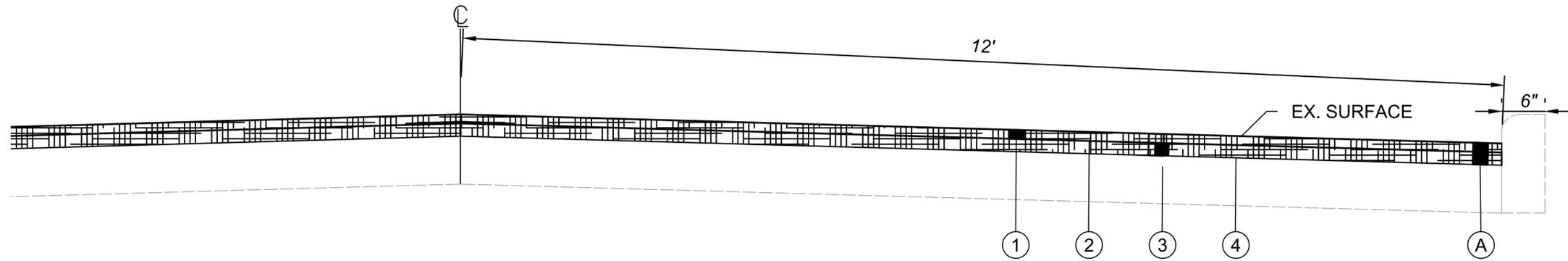
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Table with 2 columns: SCALE: AS SHOWN, DATE: 03/05/2025, DESIGNED BY: JPB, DRAWN BY: JPB, CHECKED BY: TJM.

CITY OF WILLOWICK
2026 ROAD PROGRAM
WILLOWICK, OHIO LAKE COUNTY
GENERAL - 00 SERIES
GENERAL NOTES

Table with 2 columns: PROJECT NO.: 38407, DRAWING NAME: 00G-02, SHEET: 2, OF: 15.





- ① 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, AS PER PLAN
- ② TACK COAT, TRACKLESS TACK (407)
- ③ 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), AS PER PLAN
- ④ SINGLE CHIP SEAL, TYPE A
- Ⓐ PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN

**TYPICAL ASPHALT CONCRETE RESURFACING**  
NOT TO SCALE

NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 03/05/2025	DESIGNED BY: JPB	DRAWN BY: JPB	CHECKED BY: TJM
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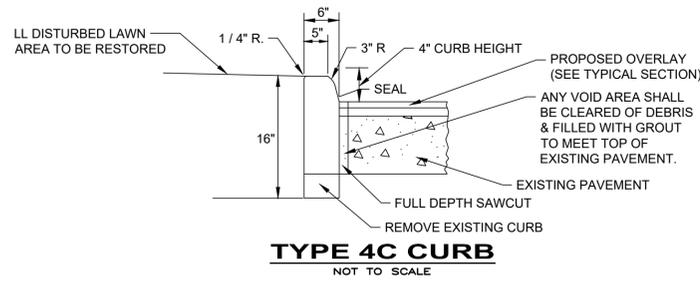
**CITY OF WILLOWICK**  
2026 ROAD PROGRAM  
WILLOWICK, OHIO LAKE COUNTY

CIVIL - 10 SERIES  
TYPICAL SECTIONS

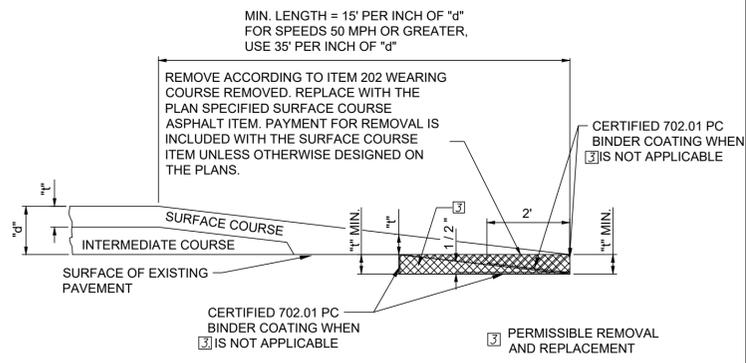
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4	15



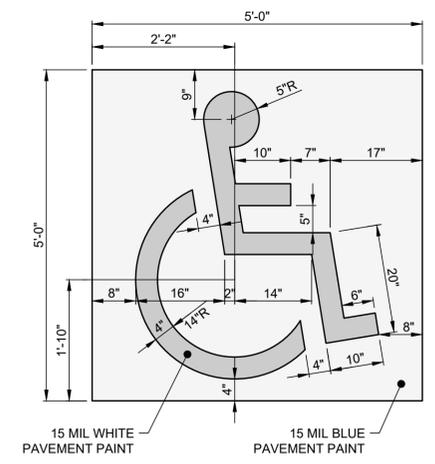
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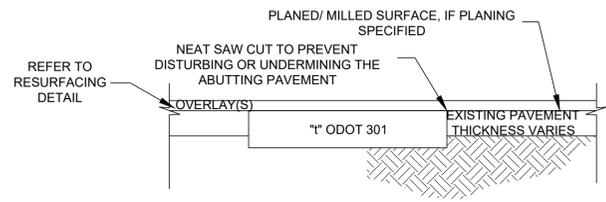
**TYPE 4C CURB**  
NOT TO SCALE



**BUTT JOINT DETAIL**  
NOT TO SCALE



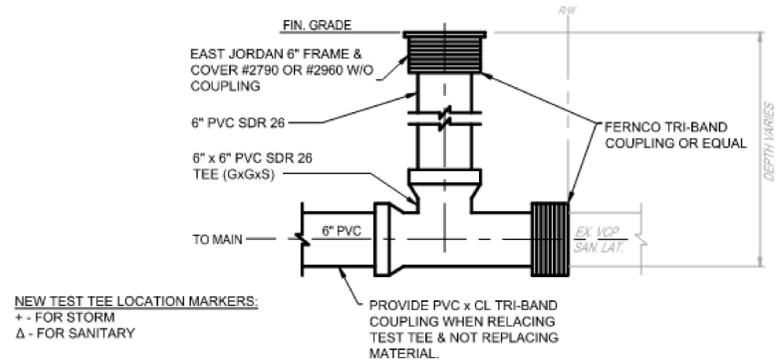
**ACCESSIBLE PARKING SYMBOL DETAIL**  
NOT TO SCALE



NOTE: ITEM SHALL BE USED AS DIRECTED

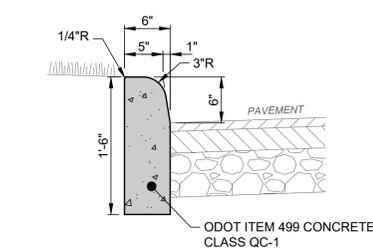
1. "1" EXISTING THICKNESS OF PORTLAND CEMENT CONCRETE BASE MATERIAL. CONTRACTOR TO REPLACE TO EXISTING CONCRETE THICKNESS.
2. REFERENCE CORING REPORT FOR ESTIMATED THICKNESS OF EXISTING CONCRETE. THICKNESS IS SUBJECT TO VARY

**PAVEMENT REPAIR DETAIL**  
**(ITEM 253)**  
NOT TO SCALE



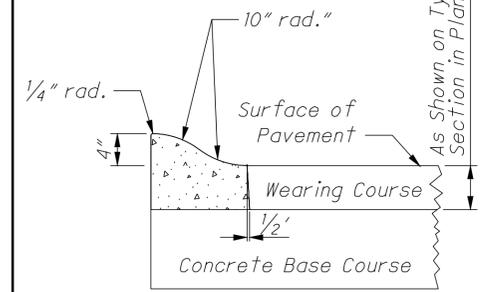
NEW TEST TEE LOCATION MARKERS:  
+ - FOR STORM  
Δ - FOR SANITARY

**TEST TEE REPLACEMENT**  
NOT TO SCALE

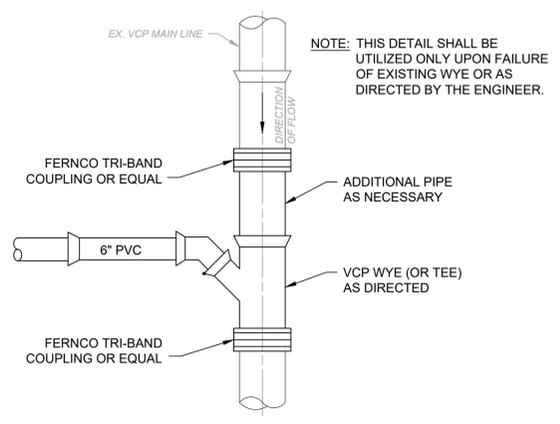


NOTES:  
1. INSTALL 1/2\"/>

**(ODOT TYPE 6) 6\"/>**

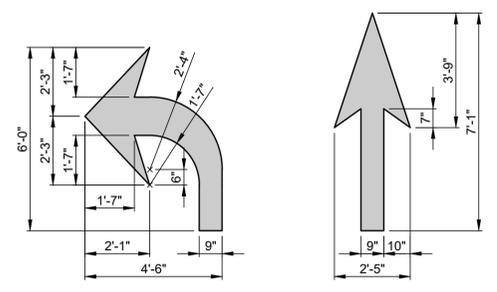


**ODOT TYPE 3 CURB**  
NOT TO SCALE

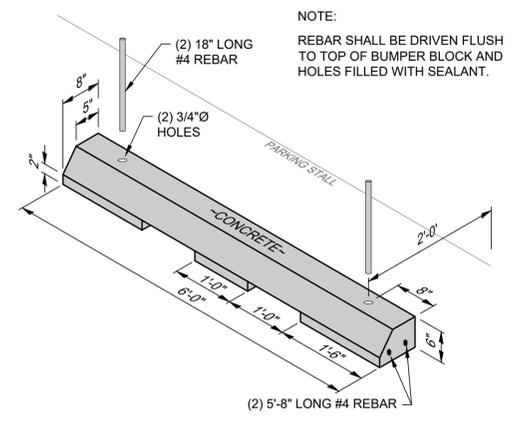


NOTE: THIS DETAIL SHALL BE UTILIZED ONLY UPON FAILURE OF EXISTING WYE OR AS DIRECTED BY THE ENGINEER.

**WYE REPLACEMENT DETAIL**  
NOT TO SCALE



**TURN & STRAIGHT ARROWS (6 FT) DETAIL**  
NOT TO SCALE



NOTE:  
REBAR SHALL BE DRIVEN FLUSH TO TOP OF BUMPER BLOCK AND HOLES FILLED WITH SEALANT.

**6\"/>**

NO.	REVISION	DATE

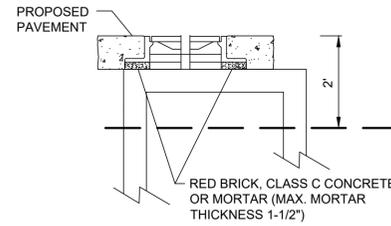
  

SCALE:	AS SHOWN
DATE:	03/05/2025
DESIGNED BY:	JPB
DRAWN BY:	JPB
CHECKED BY:	TJM

**CITY OF WILLOWICK**  
**2026 ROAD PROGRAM**  
**WILLOWICK, OHIO LAKE COUNTY**

CIVIL - 10 SERIES  
CONSTRUCTION DETAILS (1 OF 5)

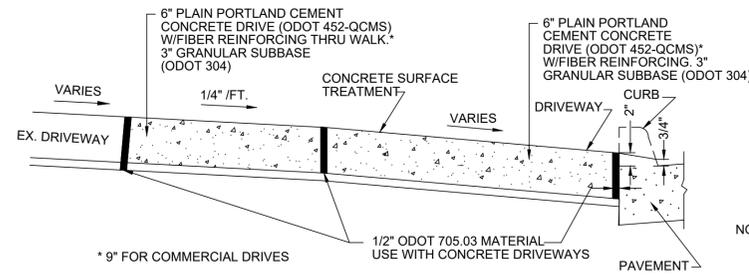
PROJECT NO:	
38407	
DRAWING NAME	
10-C02	
SHEET	OF
5	15



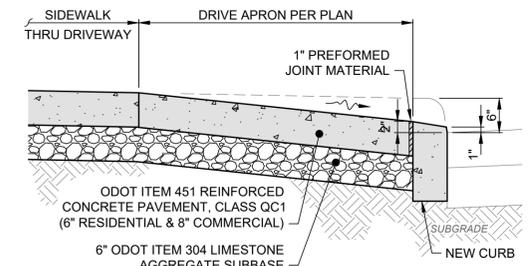
WORK SHALL INCLUDE RECONSTRUCTION OF MANHOLE/BASIN FOR UP TO 2' FROM PROPOSED RIM ELEVATION OR GUTTER GRADE ELEVATION

RECONSTRUCTION OF MANHOLE/BASIN BELOW 2' FROM PROPOSED RIM ELEVATION OR GUTTER GRADE ELEVATION SHALL BE PAID FOR UNDER MANHOLE/BASIN PARTIALLY RECONSTRUCTED TO GRADE

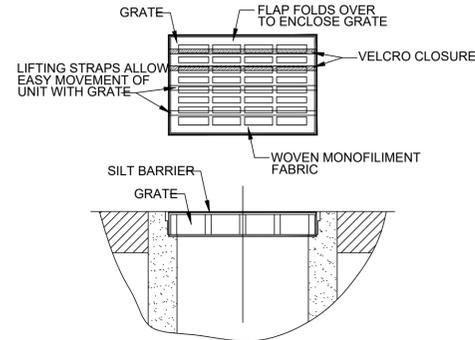
**M.H./I.B. ADJUSTED TO GRADE**  
NOT TO SCALE



**DROP CURB DETAIL AT DRIVEWAY**  
NOT TO SCALE

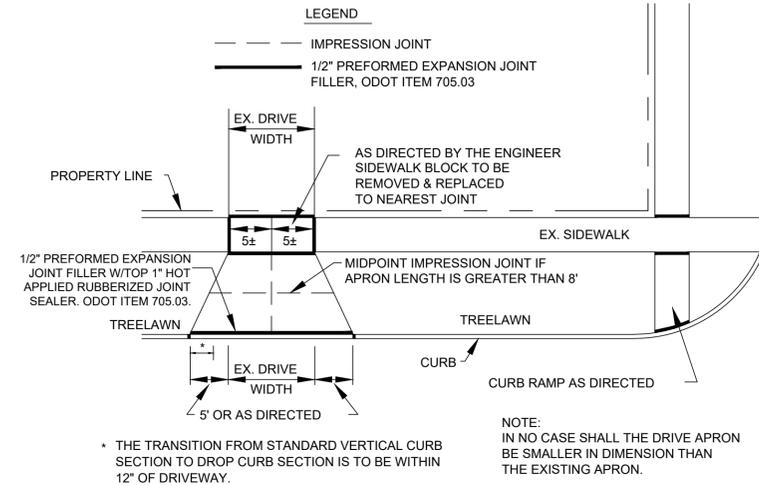


**SECTION A-A**

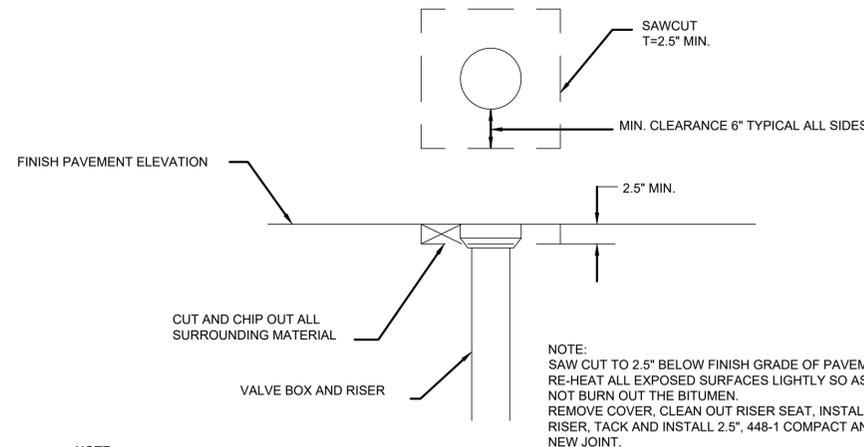


1. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT.
2. MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE SILT BARRIER AS NEEDED.
3. TO INSTALL CATCH BASIN INLET SILT BARRIER: THE EMPTY SILT BARRIER SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

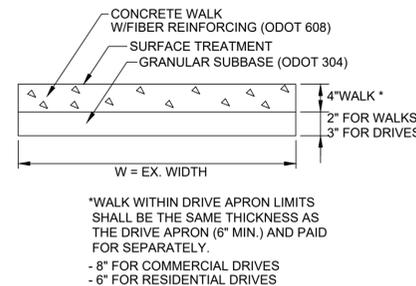
**INLET PROTECTION FOR CATCH BASIN IN ROADWAY**  
NOT TO SCALE



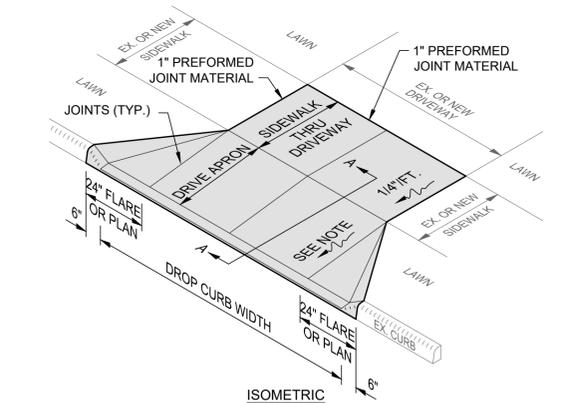
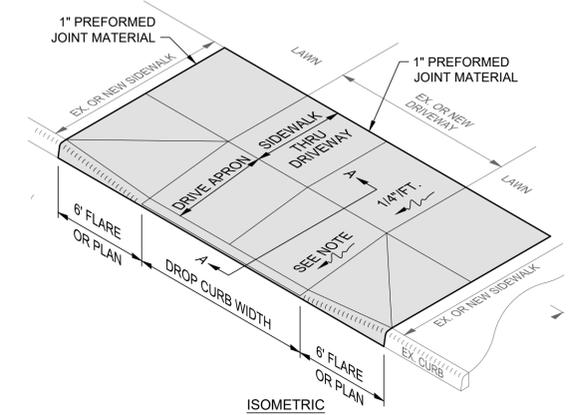
**DRIVEWAY APPROACH DETAIL**  
NOT TO SCALE



**RETRO - FIT WATER VALVE BOX RISER**  
NOT TO SCALE



**CONCRETE WALK DETAIL**  
NOT TO SCALE



**NOTES:**

1. CONCRETE AT ACTIVE DRIVE APRONS SHALL BE CLASS QC MS.
2. THE DROP CURB SHALL BE HAND FORMED AT THE TIME THE CONCRETE CURB IS POURED.
3. JOINTS SHALL BE PROVIDED AT THE NORMAL FACE AND BACK OF SIDEWALK LOCATION.
4. MINIMUM DRIVE APRON SLOPE PERMITTED IS 1/8"/FT. (1.00%) AND MAXIMUM IS 1"/FT. (8.33%). SEE GRADING PLAN FOR ACTUAL SLOPES AND ELEVATIONS.
5. THIS DETAIL SHOWS A DRIVE APRON WITH VARIOUS APRON FLARES FOR REFERENCE ONLY; SEE LAYOUT PLAN FOR ACTUAL APRON CONFIGURATION AND FLARE WIDTHS.

**CONCRETE DRIVE APRON DETAIL**  
NOT TO SCALE



**verdantas**

NO.	REVISION	DATE

SCALE:	AS SHOWN
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CHECKED BY:	TJM

**CITY OF WILLOWICK**  
**2026 ROAD PROGRAM**  
**WILLOWICK, OHIO LAKE COUNTY**

CIVIL - 10 SERIES  
CONSTRUCTION DETAILS (2 OF 5)

PROJECT NO:	<b>38407</b>
DRAWING NAME	10-C03
SHEET	OF
6	15



**verdantas**

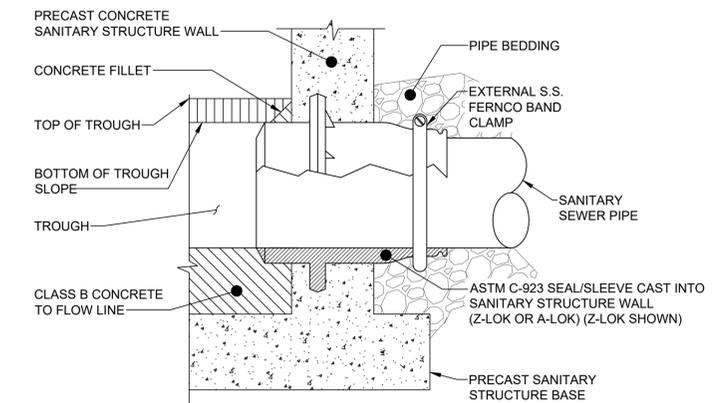
NO.	REVISION	DATE

SCALE:	AS SHOWN
DATE:	03/05/2025
DESIGNED BY:	JPB
DRAWN BY:	JPB
CHECKED BY:	TJM

**CITY OF WILLOWICK**  
**2026 ROAD PROGRAM**  
**WILLOWICK, OHIO LAKE COUNTY**

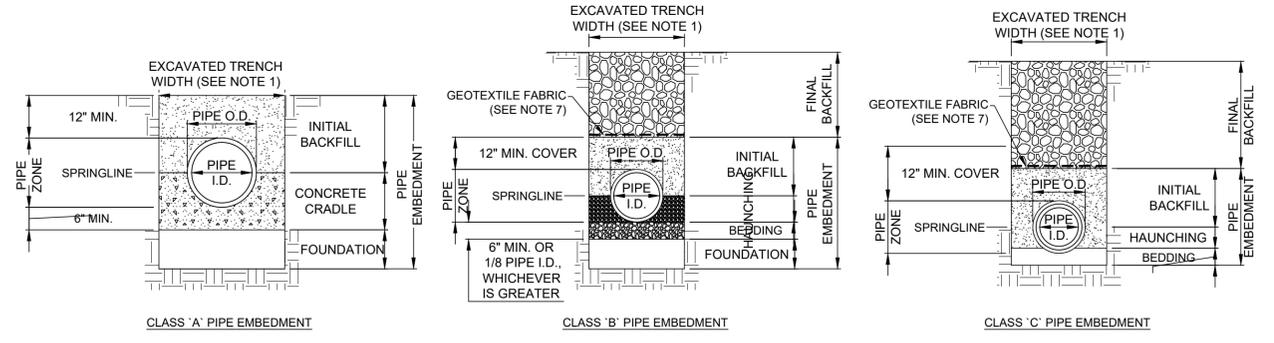
CIVIL - 10 SERIES  
 CONSTRUCTION DETAILS (3 OF 5)

PROJECT NO:	<b>38407</b>
DRAWING NAME:	<b>10-C04</b>
SHEET	OF
7	15



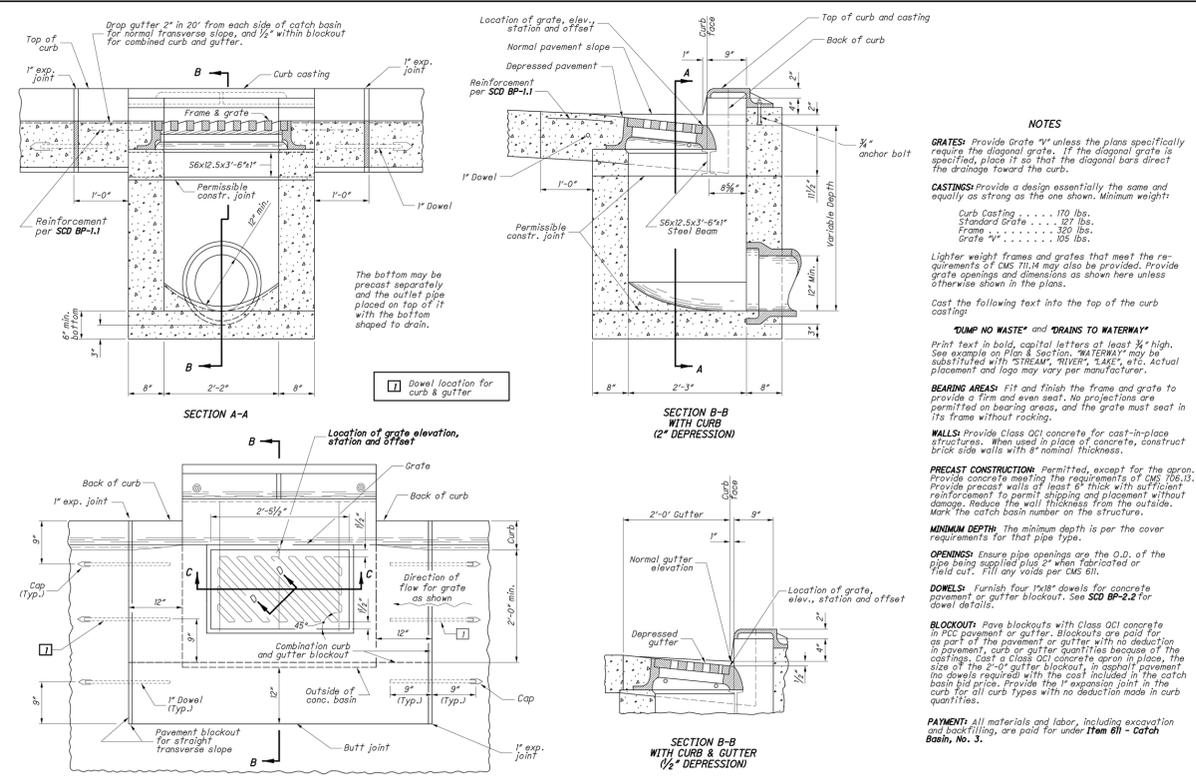
**PIPE CONNECTION TO NEW STRUCTURE DETAIL**  
 NOT TO SCALE

CONTRACTOR SHALL REFER TO MANUFACTURER DETAILS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS NOT EXPLICITLY NOTED ON THESE DETAILS FOR INSTALLING NEW PIPE INTO AN EXISTING OR NEW PRE-CAST CONCRETE STRUCTURE.



- NOTES:**
- MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND OVER.
  - FOUNDATION: ONLY PREFORMED AS DIRECTED BY THE ENGINEER. AS PER THE GEOTECHNICAL REPORT, THE CONTRACTOR SHALL EXCAVATE AND REMOVE AN ADDITIONAL 12" OF MATERIAL AND REPLACE WITH A LAYER OF 6" OF AASHTO NO. 1 AND NO. 2 CRUSHED LIMESTONE, FOLLOWED BY A LAYER OF 6" OF AASHTO NO. 57 GRANULAR LIMESTONE.
  - PIPE EMBEDMENT:
    - CLASS A:** CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 LIMESTONE GRANULAR PIPE EMBEDMENT.
    - CLASS B:** CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE HAUNCHING SHALL BE AASHTO NO. 57 LIMESTONE GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 LIMESTONE GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 LIMESTONE GRANULAR PIPE EMBEDMENT.
    - CLASS C:** CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 LIMESTONE GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE. WHERE ROCK OR SHALE IS ENCOUNTERED, A MINIMUM 6-INCHES OF AASHTO NO. 57 LIMESTONE GRANULAR PIPE BEDDING OR SAND BEDDING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
  - FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE SPECIAL BACKFILL MATERIAL. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER. LSM SHALL BE USED IN PLACE OF SPECIAL BACKFILL MATERIAL WHEN TOP OF PIPE IS WITHIN 5' OF PAVEMENT OR WITHIN CITY RIGHT-OF-WAY OR UNLESS INDICATED ON DRAWINGS
  - SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 310000 - EARTHWORK.
  - CLAY TRENCH DAMS: CLAY TRENCH DAMS SHALL BE REQUIRED FOR EACH LATERAL, UPSTREAM OF EVERY MANHOLE, AS SHOWN ON THE DRAWINGS, AND AS DIRECTED BY THE ENGINEER.
  - GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A, AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 LIMESTONE GRANULAR PIPE EMBEDMENT.
  - TYPICAL PIPE ENCASMENT, AS PER PLAN OR AS DIRECTED BY THE ENGINEER.

**TRENCHING, EMBEDMENT, AND BACKFILL DETAIL**  
 NOT TO SCALE

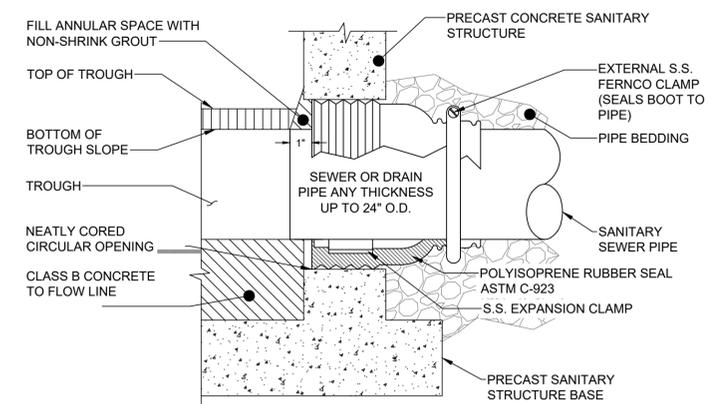


OFFICE OF HYDRAULIC ENGINEERING  
 10/20/2012  
 01/18/2013  
 01/17/2014  
 01/15/2016  
 07/29/2018  
 01/15/2021  
 07/16/2021  
 07/19/2022

DESIGNER: K. Brandon  
 CHECKED BY: Jeffrey E. Syar

STANDARD HYDRAULIC CONSTRUCTION DRAWING  
 CATCH BASIN No. 3A

SECTION:	CB-3A
DATE:	10/24
REV:	P.1 2



**PIPE CONNECTION TO EXISTING STRUCTURE DETAIL**  
 NOT TO SCALE

CONTRACTOR SHALL REFER TO MANUFACTURER DETAILS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS NOT EXPLICITLY NOTED ON THESE DETAILS FOR INSTALLING NEW PIPE INTO AN EXISTING OR NEW PRE-CAST CONCRETE STRUCTURE.



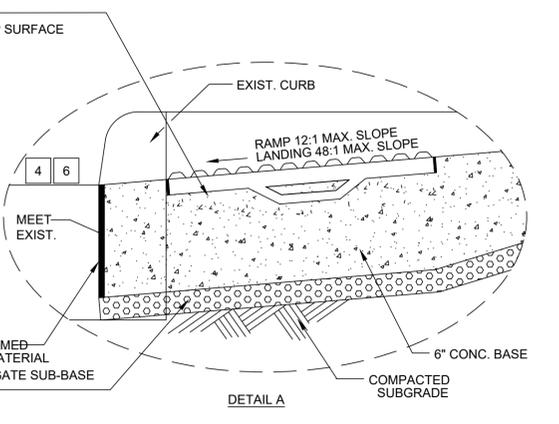
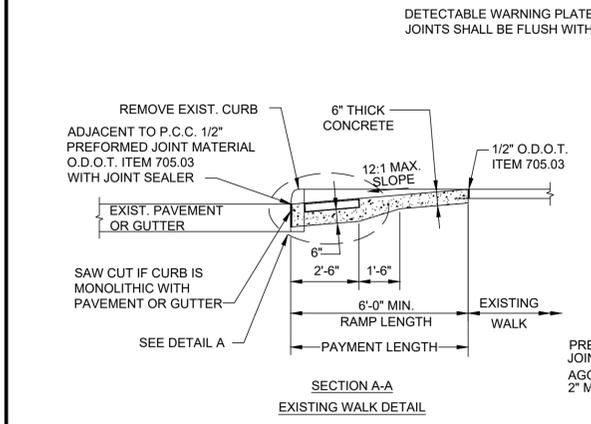
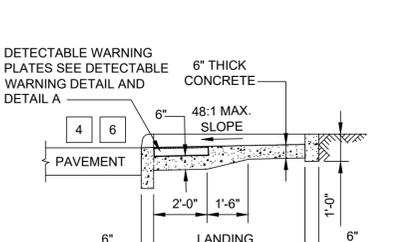
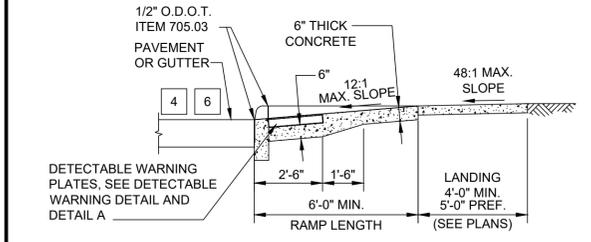
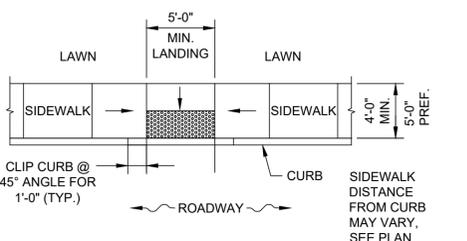
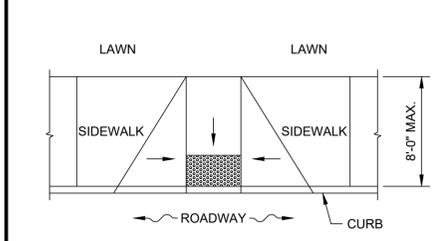
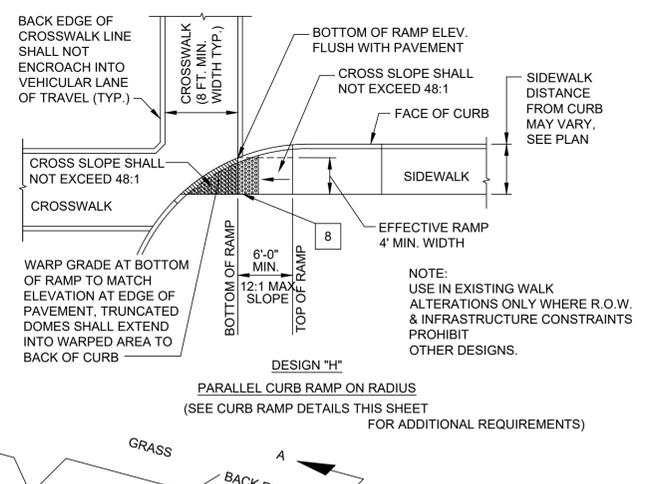
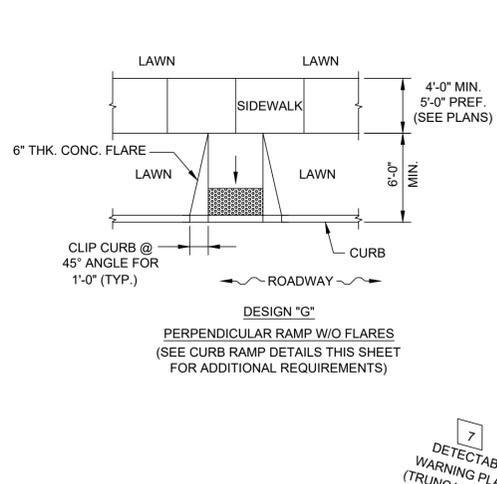
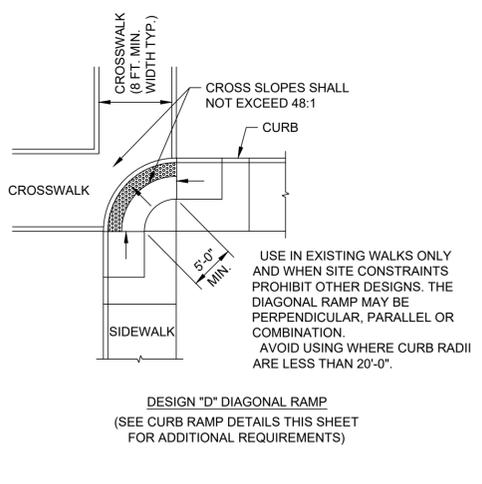
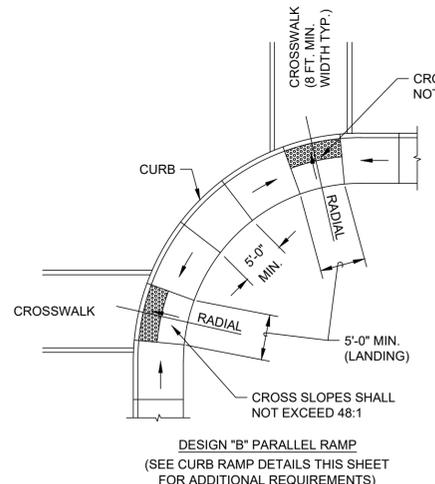
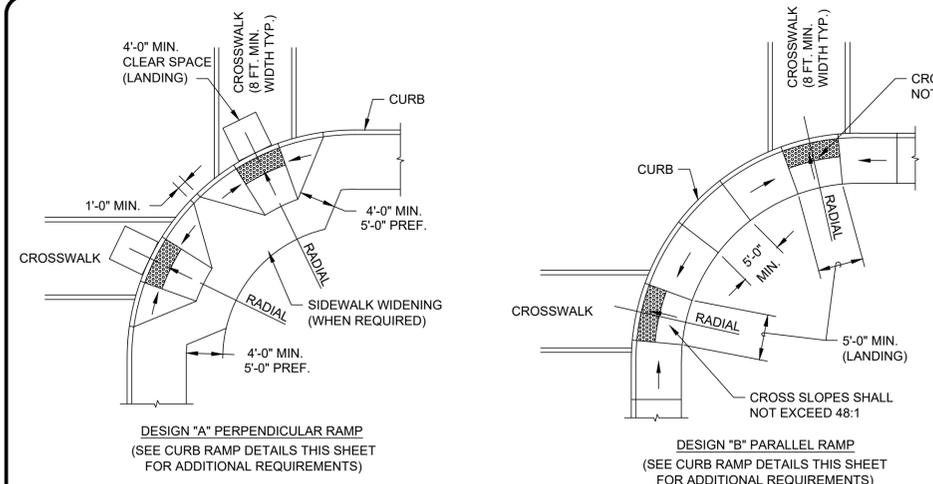
NO.	REVISION	DATE

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**CITY OF WILLOWICK**  
**2026 ROAD PROGRAM**  
**WILLOWICK, OHIO LAKE COUNTY**

CIVIL - 10 SERIES  
 CONSTRUCTION DETAILS (4 OF 5)

PROJECT NO:	<b>38407</b>
DRAWING NAME:	<b>10-C05</b>
SHEET:	<b>8</b>
OF:	<b>15</b>



- DETAIL NOTES**
- MAY BE REDUCED TO 3'-4" IN EXISTING SIDEWALKS TO BETTER FIT THE WALK CONFIGURATION OR WHERE SITE CONDITIONS ARE RESTRICTED BY NARROW WALKS, POLE FOUNDATIONS, DRAINAGE INLETS, ETC. THE WIDTH MAY BE TAPERED.
  - IF FLARED SIDES ARE USED IN AREAS OF CROSS TRAVEL, THE MINIMUM SLOPE SHALL BE 10:1 WITH A LANDING AND 12:1 WITHOUT A DEFINED LANDING.
  - THE SLOPE OF THE RAMP TOWARD THE CURB IS REQUIRED TO BE 12:1 [0.0833] OR LESS, RELATIVE TO THE HORIZONTAL, UNLESS APPROVED IN WRITING BY THE ENGINEER/ARCHITECT.
  - THE MINIMUM LENGTH OF A PERPENDICULAR RAMP IS 6' FROM THE BACK OF A 6" CURB AND MAY BE INCREASED WHERE FEASIBLE TO OBTAIN A FLATTER RAMP SLOPE OR TO BETTER BLEND WITH THE WALK CONFIGURATION
  - THE GRADE BREAK BETWEEN THE COUNTER SLOPES OF GUTTER AND/OR ROAD SURFACES, WITHIN 24 INCHES OF THE CURB RAMP AND THE RUNNING GRADE OF THE CURB RAMP, SHALL NOT EXCEED THE ALGEBRAIC DIFFERENCE OF 11 PERCENT. IF TWO OR MORE PLANE CHANGES ARE PRESENT, THEY SHALL BE SEPARATED BY 24 INCHES.
  - DIMENSIONS DERIVED FROM EQUATIONS ARE NOMINAL. CONSTRUCT RAMPS TO MEET REQUIRED SLOPES AND EXISTING CONDITIONS.
  - GRADES FOR LANDING SHALL PROMOTE POSITIVE DRAINAGE, WITHIN MAXIMUM ALLOWABLE SLOPE. NO PONDING OF WATER WILL BE ACCEPTABLE.
  - DETECTABLE WARNING PLATES SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES ALIGNED ON A SQUARE GRID, IN THE PREDOMINANT DIRECTION OF TRAVEL, EXTENDING A DISTANCE OF 24" FROM THE BACK OF CURB AND SPANNING THE ENTIRE WIDTH OF THE RAMP OPENING.
- TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9", A TOP DIAMETER OF 0.56", A HEIGHT OF 0.2" AND CENTER TO CENTER SPACING OF 2.35".
- PLATES SHALL BE LAID SUCH THAT JOINTS ARE LEVEL WITH ADJOINING JOINTS SO AS TO PROVIDE A SMOOTH TRANSITION FROM PAVEMENT TO PAVEMENT AND PAVEMENT TO CONCRETE SURFACE. THE SURFACE OF ANY TWO ADJACENT UNITS SHOULD NOT DIFFER BY MORE THAN 1/8" IN HEIGHT. PLATES SHALL BE BOLTED TOGETHER IN REQUIRED LENGTH. FACE OF ALL PLATES SHALL BE CLEAN OF CEMENT AND PROTECTED SO AS TO AVOID DAMAGE DURING CONSTRUCTION.
- DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
- WHERE PLATES ABUT LAWN, INSTALL RIGID PVC OR GALVANIZED STEEL EDGE RESTRAINT WITH MINIMUM 1 3/4" VERTICAL FACE, 1 1/4" TOE, AND 3 1/4" HEAL USING 10" X 3/8" LONG SPIKES AT 12" C-C.
- DETECTABLE WARNING PLATES SHALL BE VITRIFIED POLYMER COMPOSITE FILLED WITH HIGH STRENGTH POLYMERIC CONCRETE 2'X4' PLATE AT PERPENDICULAR CURB RAMPS AND CURB RAMPS ON THE RADIUS. 20" RADIUS PLATES SHALL BE INSTALLED AT DIAGONAL CURB RAMP. ALL SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

**SURFACE TEXTURE:** TEXTURE SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE RAMP SLOPES AND SHALL BE ROUGHER THAN ADJACENT WALK. (DOES NOT APPLY TO TRUNCATED DOMES)

**JOINTS:** JOINTS SHALL BE PROVIDED IN THE CURB RAMP AS EXTENSIONS OF WALK JOINTS. A 1/2" O.D.O.T. ITEM 705.03 PREFORMED JOINT MATERIAL SHALL BE PROVIDED AROUND THE EDGE OF RAMPS BUILT IN EXISTING CONCRETE WALK. LINES SHOWN ON THIS DRAWING INDICATE THE RAMP EDGE AND SLOPE CHANGES AND ARE NOT NECESSARILY JOINT LINES.

SEE NOTE 3

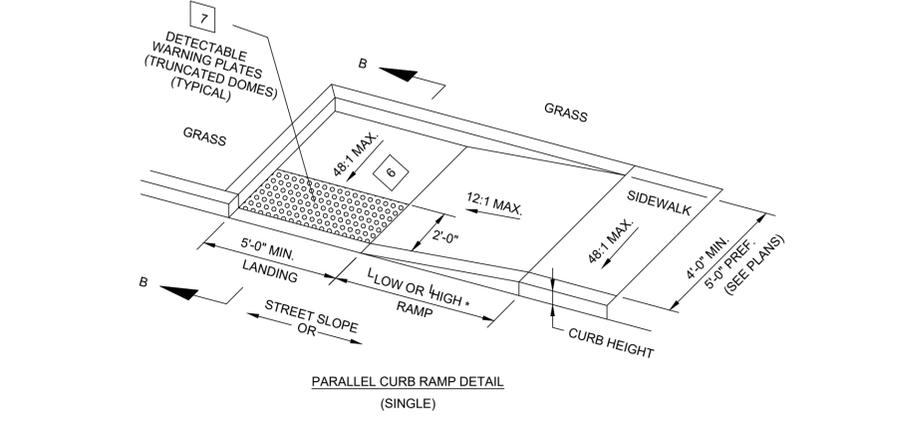
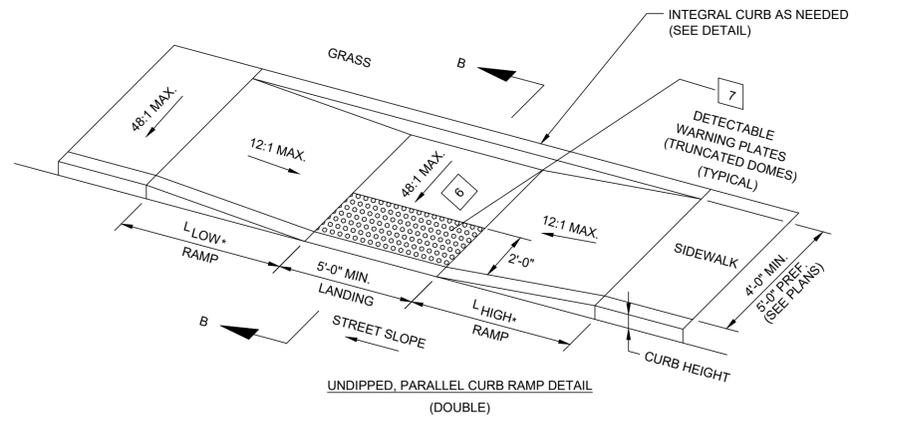
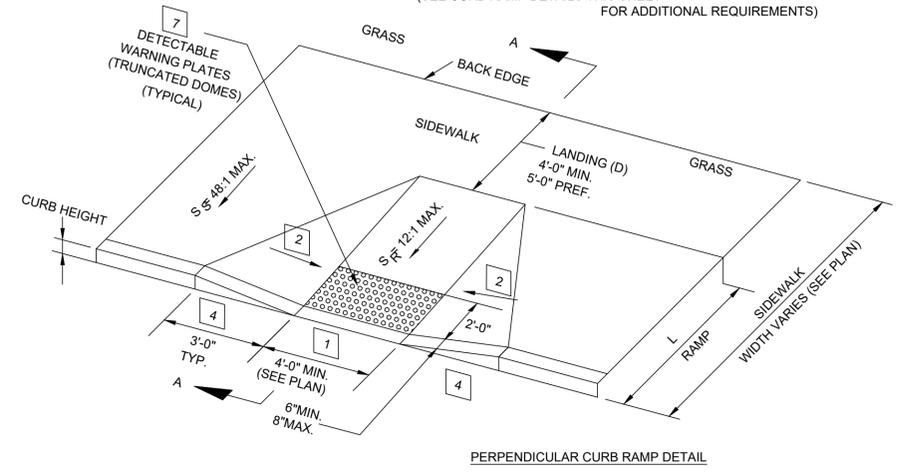
STREET SLOPE	RAMP LENGTH @ 1 INCH PER FOOT [0.0833]	
	L LOW SIDE*	L HIGH SIDE*
0.01	5'-5"	6'-10"
0.02	4'-10"	7'-11"
0.03	4'-5"	9'-5"
0.04	4'-1"	11'-8"
0.05	3'-9"	15'-2"

\* - REFERENCE POINT FOR MEASURE IS FACE OF 6" HIGH CURB

$$L = \frac{\text{CURB HT.}}{\bar{R} = S} \quad 5$$

$$L_{\text{HIGH}} = \frac{\text{CURB HEIGHT}}{0.0833 - \text{STREET SLOPE}}$$

$$L_{\text{LOW}} = \frac{\text{CURB HT.}}{0.0833 + \text{STREET SLOPE}}$$







**verdantas**

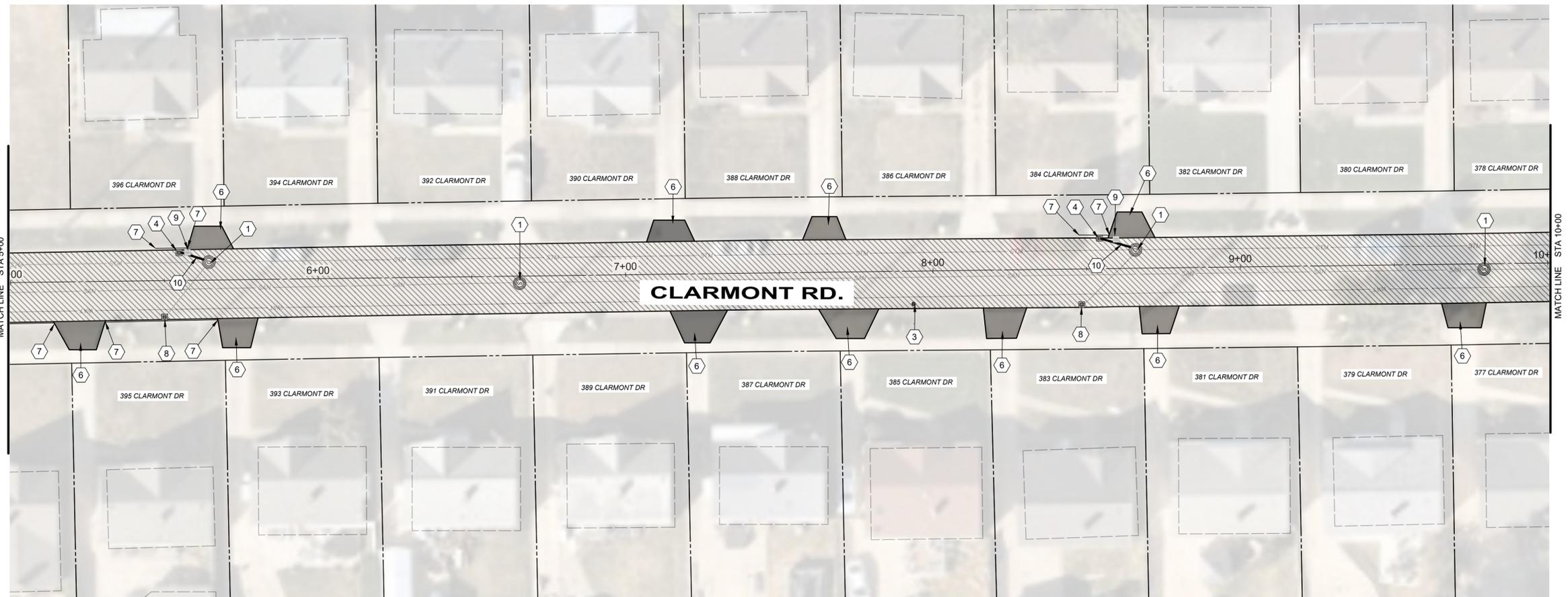
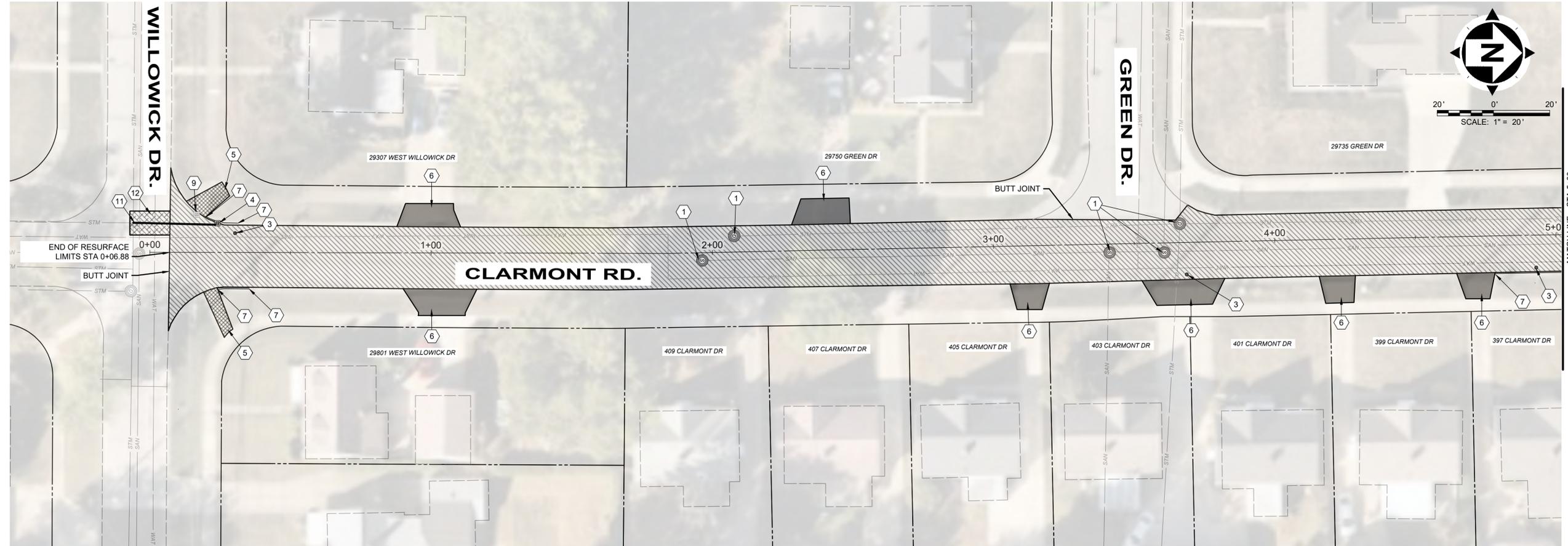
NO.	REVISION	DATE

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**CITY OF WILLOWICK**  
**2026 ROAD PROGRAM**  
**WILLOWICK, OHIO LAKE COUNTY**

CIVIL - 10 SERIES  
 BASE BID - CLARMONT STA 0+00 - 10+00

PROJECT NO:	<b>38407</b>
DRAWING NAME	<b>10-C07</b>
SHEET	10
OF	15



- PR. LEGEND:**
- RESURFACE LIMITS
  - CATCH BASIN - TO BE ADJUSTED/ REPLACED
  - MANHOLE - TO BE ADJUSTED
  - VALVE - TO BE ADJUSTED
  - CONCRETE ADA RAMP REPLACEMENT
  - CONCRETE DRIVEWAY APRON REPLACEMENT WITHIN THE R/W
  - TYPE "C" ROADWAY REPLACEMENT

- CODED NOTES:**
- 1 MANHOLE ADJUSTED TO GRADE, METHOD D.1 (BRICK), AS PER PLAN
  - 2 NOT USED
  - 3 VALVE BOX ADJUSTED TO GRADE, AS PER PLAN
  - 4 PROPOSED CATCH BASIN PER DETAIL "CATCH BASIN TYPE 3A" ON SHEET 7
  - 5 6 INCH CURB RAMP, INCLUDING FIBROUS REINFORCING, INCLUDING REMOVAL, AS PER PLAN - DETAILED ON SHEET 8
  - 6 CONCRETE DRIVE APRON REPLACEMENT, PER DETAIL "CONCRETE DRIVE APRON DETAIL" ON SHEET 6
  - 7 TYPE 4C CURB REMOVE AND REPLACE EXTENTS - PER DETAIL "TYPE 4C CURB" ON SHEET 5
  - 8 CATCH BASIN RECONSTRUCTED TO GRADE
  - 9 EX. CATCH BASIN TO BE REMOVED AND RELOCATED. ABANDON IN PLACE WITH LSM UP TO EX. BASE OF PAVEMENT.
  - 10 PR. 8" PVC STORM SEWER
  - 11 CONNECT TO EX. 15" VCP STORM SEWER PER FIELD TEE CONNECTION DETAIL ON SHEET 5
  - 12 TYPE "C" PAVEMENT REPLACEMENT (ASPHALT), ROADWAY, AS PER PLAN



**verdantas**



SCALE: 1" = 20'

**PR. LEGEND:**

- RESURFACE LIMITS
- CATCH BASIN - TO BE ADJUSTED/ REPLACED
- MANHOLE - TO BE ADJUSTED
- VALVE - TO BE ADJUSTED
- CONCRETE ADA RAMP REPLACEMENT
- CONCRETE DRIVEWAY APRON REPLACEMENT WITHIN THE RW

**CODED NOTES:**

- ① MANHOLE ADJUSTED TO GRADE, METHOD D.1 (BRICK), AS PER PLAN
- ② NOT USED
- ③ VALVE BOX ADJUSTED TO GRADE, AS PER PLAN
- ④ PROPOSED CATCH BASIN PER DETAIL "CATCH BASIN TYPE 3A" ON SHEET 7
- ⑤ NOT USED
- ⑥ CONCRETE DRIVE APRON REPLACEMENT, PER DETAIL "CONCRETE DRIVE APRON DETAIL" ON SHEET 6
- ⑦ TYPE 4C CURB REMOVE AND REPLACE EXTENTS - PER DETAIL "TYPE 4C CURB" ON SHEET 5
- ⑧ CATCH BASIN RECONSTRUCTED TO GRADE
- ⑨ EXISTING CATCH BASIN TO BE REMOVED AND RELOCATED. ABANDON IN PLACE WITH LSM UP TO EX. BASE OF PAVEMENT.
- ⑩ PR. 8" PVC STORM SEWER



NO	REVISION	DATE

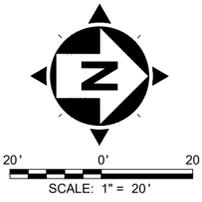
SCALE: AS SHOWN	DATE: 03/05/2025	DESIGNED BY: JPB	DRAWN BY: JPB	CHECKED BY: TJM
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**CITY OF WILLOWICK**  
**2026 ROAD PROGRAM**  
**WILLOWICK, OHIO LAKE COUNTY**  
 CIVIL - 10 SERIES  
 BASE BID - CLARMONT STA 10+00 - 20+00

PROJECT NO:	
38407	
DRAWING NAME	
10-C08	
SHEET	OF
11	15

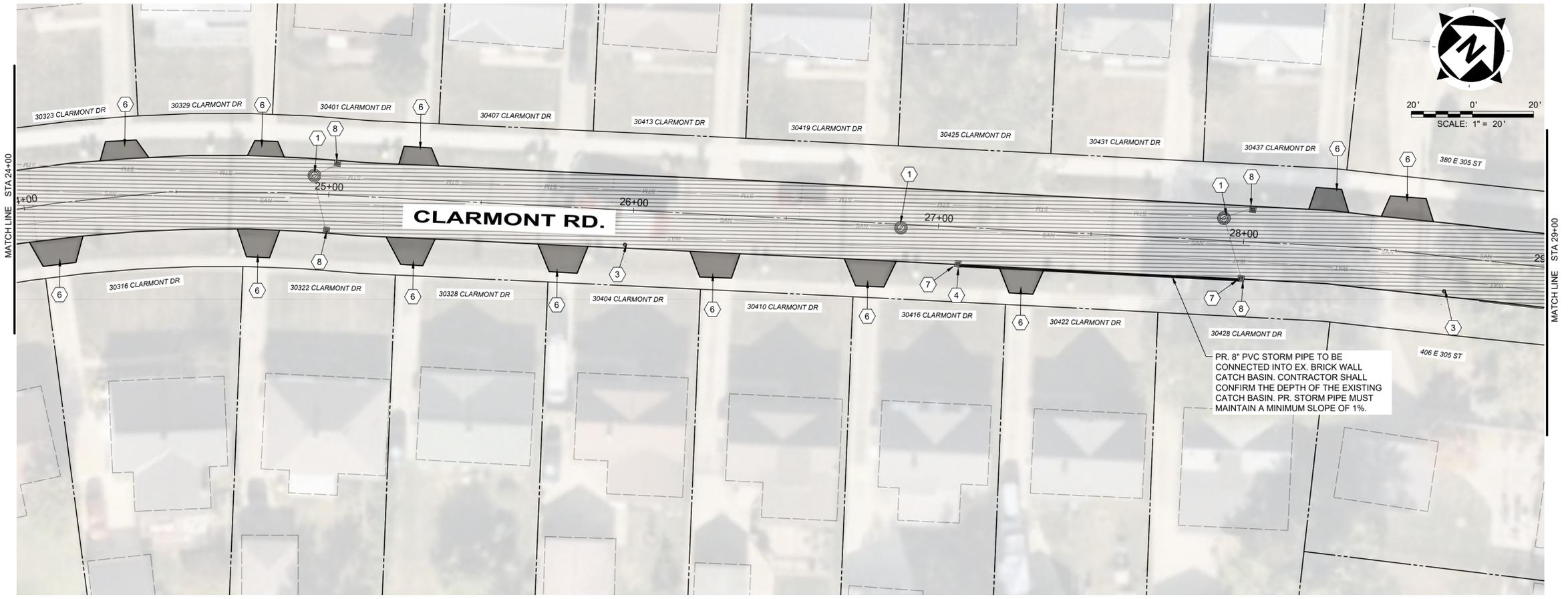
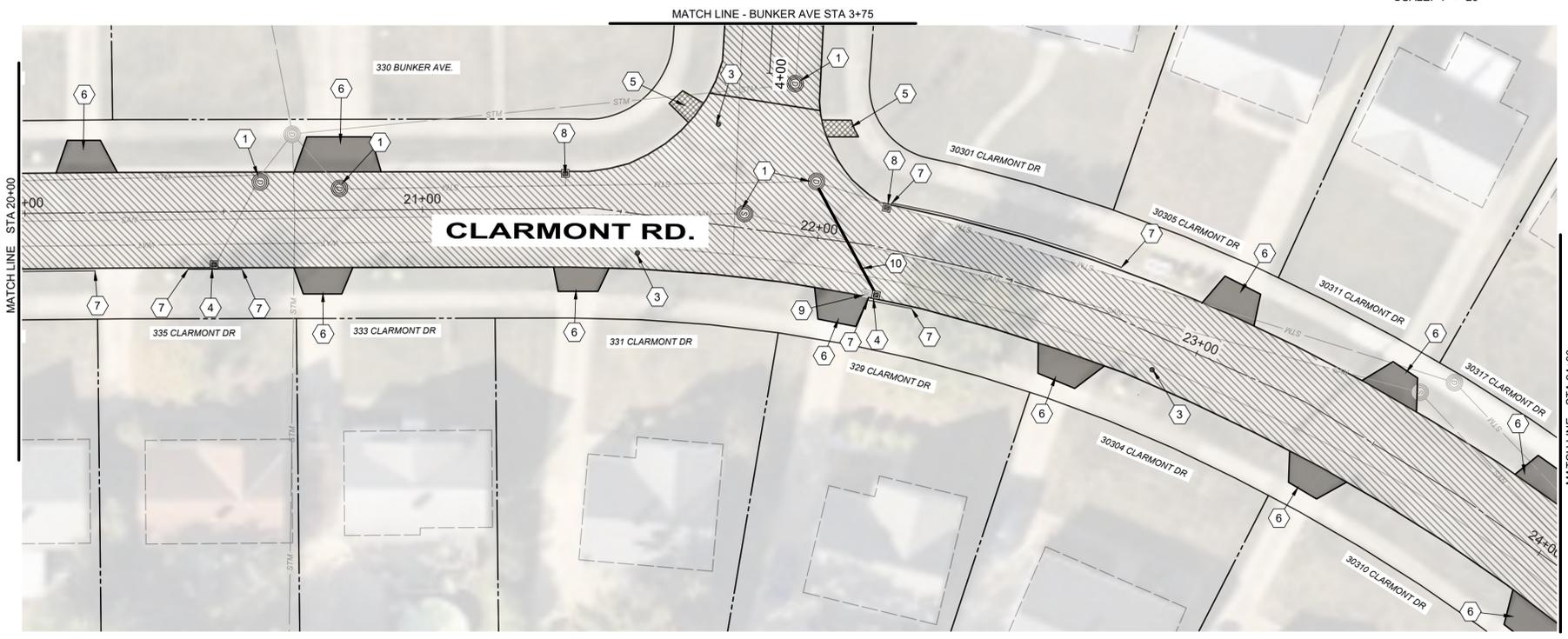


**verdantas**



- PR. LEGEND:**
- RESURFACE LIMITS
  - CATCH BASIN - TO BE ADJUSTED/ REPLACED
  - MANHOLE - TO BE ADJUSTED
  - VALVE - TO BE ADJUSTED
  - CONCRETE ADA RAMP REPLACEMENT
  - CONCRETE DRIVEWAY APRON REPLACEMENT WITHIN THE R/W

- CODED NOTES:**
- ① MANHOLE ADJUSTED TO GRADE, METHOD D.1 (BRICK), AS PER PLAN
  - ② NOT USED
  - ③ VALVE BOX ADJUSTED TO GRADE, AS PER PLAN
  - ④ PROPOSED CATCH BASIN PER DETAIL "CATCH BASIN TYPE 3A" ON SHEET 7
  - ⑤ 6 INCH CURB RAMP, INCLUDING FIBROUS REINFORCING, INCLUDING REMOVAL, AS PER PLAN - DETAILED ON SHEET 8
  - ⑥ CONCRETE DRIVE APRON REPLACEMENT, PER DETAIL "CONCRETE DRIVE APRON DETAIL" ON SHEET 6
  - ⑦ TYPE 4C CURB REMOVE AND REPLACE EXTENTS - PER DETAIL "TYPE 4C CURB" ON SHEET 5
  - ⑧ CATCH BASIN RECONSTRUCTED TO GRADE
  - ⑨ EXISTING CATCH BASIN TO BE REMOVED AND RELOCATED ABANDON IN PLACE WITH LSM UP TO EX. BASE OF PAVEMENT.
  - ⑩ PR. 8" PVC STORM SEWER



NO	REVISION	DATE

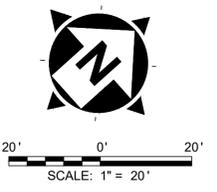
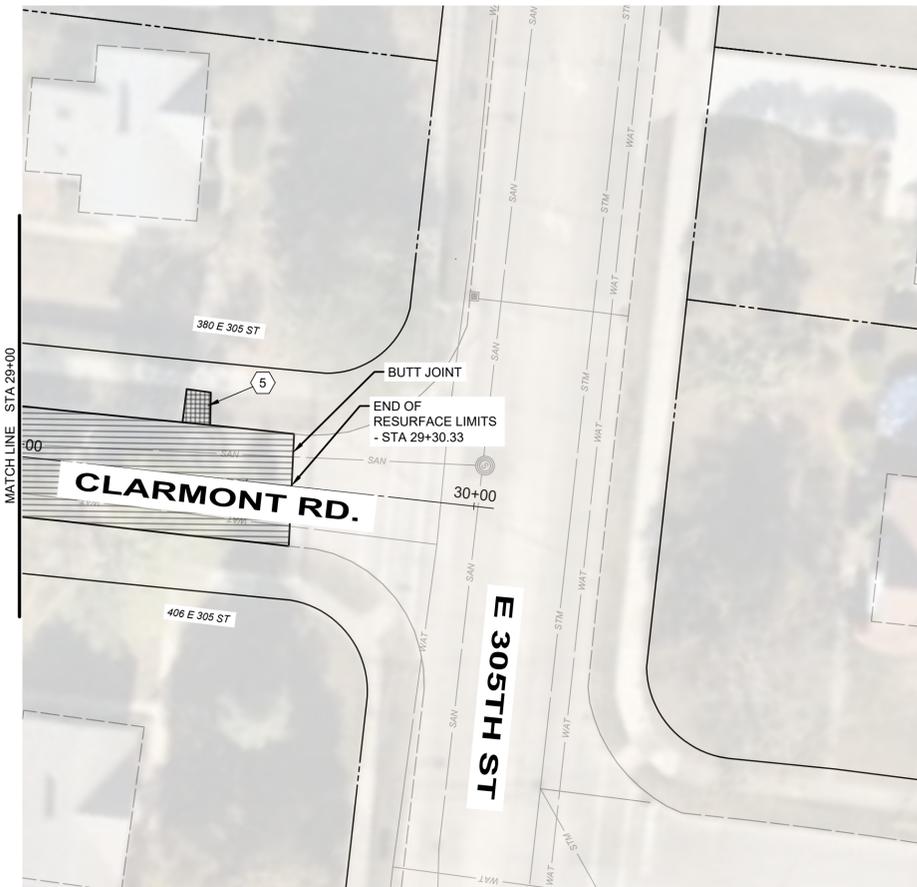
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DATE:	03/05/2025
DESIGNED BY:	JPB
DRAWN BY:	JPB
CHECKED BY:	TJM

**CITY OF WILLOWICK**  
**2026 ROAD PROGRAM**  
**WILLOWICK, OHIO LAKE COUNTY**

CIVIL - 10 SERIES

BASE BID - CLARMONT STA 20+00 - 28+00

PROJECT NO:	
38407	
DRAWING NAME	
10-C09	
SHEET	OF
12	15



**PR. LEGEND:**

-  RESURFACE LIMITS
-  CATCH BASIN - TO BE ADJUSTED/ REPLACED
-  MANHOLE - TO BE ADJUSTED
-  VALVE - TO BE ADJUSTED
-  CONCRETE ADA RAMP REPLACEMENT
-  CONCRETE DRIVEWAY APRON REPLACEMENT WITHIN THE R/W

**CODED NOTES:**

- ① NOT USED
- ② NOT USED
- ③ NOT USED
- ④ NOT USED
- ⑤ 6 INCH CURB RAMP, INCLUDING FIBROUS REINFORCING, INCLUDING REMOVAL, AS PER PLAN - DETAILED ON SHEET 8
- ⑥ NOT USED
- ⑦ NOT USED
- ⑧ NOT USED
- ⑨ NOT USED
- ⑩ NOT USED



NO	REVISION	DATE

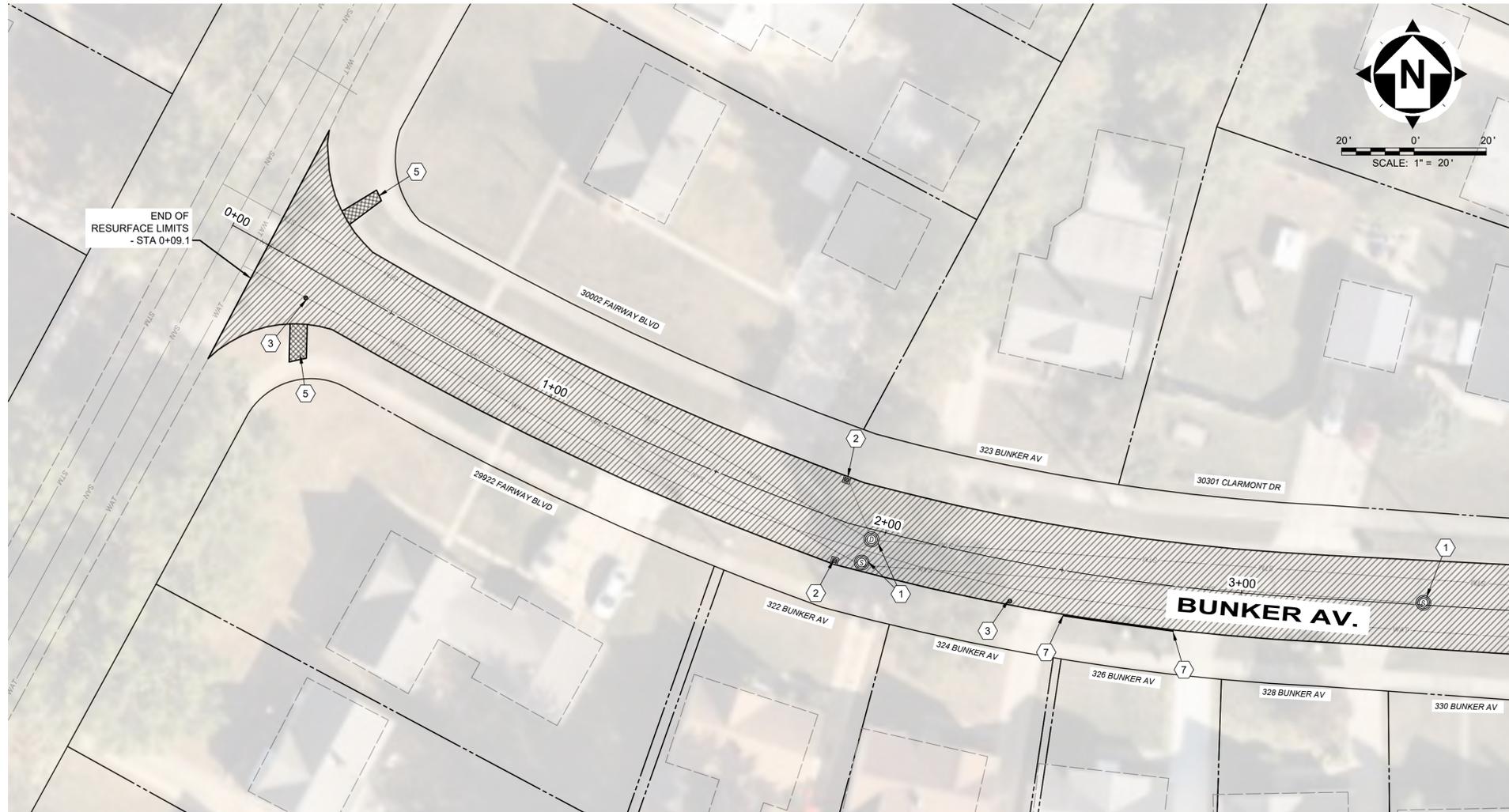
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**CITY OF WILLOWICK**  
**2026 ROAD PROGRAM**  
**WILLOWICK, OHIO LAKE COUNTY**

CIVIL - 10 SERIES

BASE BID - CLARMONT STA 28+00 - END

PROJECT NO:	
38407	
DRAWING NAME	
10-C10	
SHEET	OF
13	15



**LEGEND:**

- RESURFACE LIMITS
- CATCH BASIN - TO BE ADJUSTED
- MANHOLE - TO BE ADJUSTED
- VALVE - TO BE ADJUSTED
- CONCRETE ADA RAMP REPLACEMENT
- CONCRETE DRIVEWAY APRON REPLACEMENT WITHIN THE R/W

**CODED NOTES:**

- ① MANHOLE ADJUSTED TO GRADE, METHOD D.1 (BRICK), AS PER PLAN
- ② CATCH BASIN ADJUSTED TO GRADE, METHOD D.1 (BRICK), AS PER PLAN
- ③ VALVE BOX ADJUSTED TO GRADE, AS PER PLAN
- ④ NOT USED
- ⑤ 6 INCH CURB RAMP, INCLUDING FIBROUS REINFORCING, INCLUDING REMOVAL, AS PER PLAN - DETAILED ON SHEET 8
- ⑥ NOT USED
- ⑦ TYPE 4C CURB REMOVE AND REPLACE EXTENTS - PER DETAIL "TYPE 4C CURB" ON SHEET 5
- ⑧ NOT USED
- ⑨ NOT USED
- ⑩ NOT USED



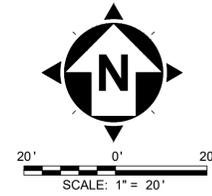
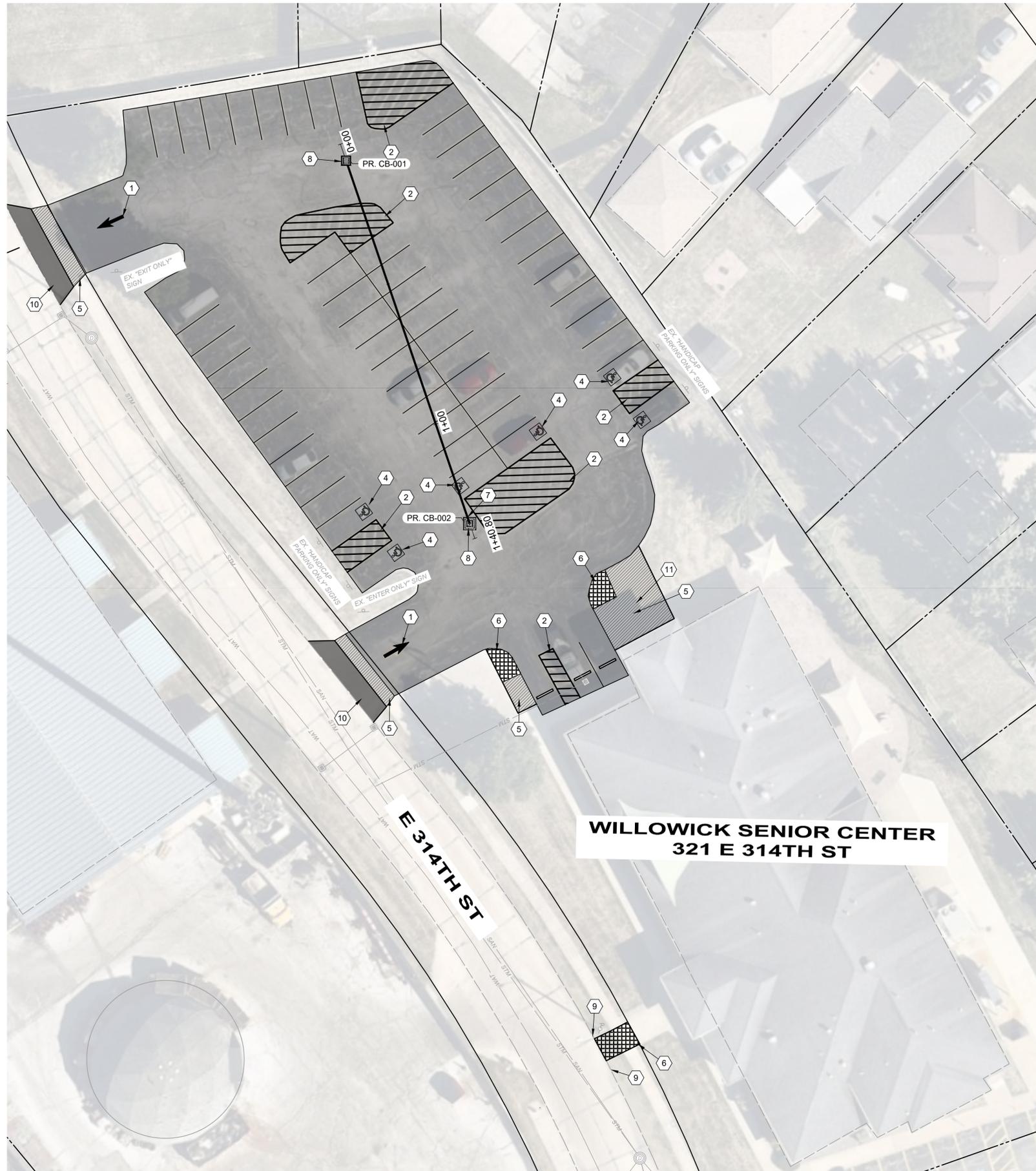
**verdantas**

NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 03/05/2025	DESIGNED BY: JPB	DRAWN BY: JPB	CHECKED BY: TJM
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**CITY OF WILLOWICK**  
**2026 ROAD PROGRAM**  
**WILLOWICK, OHIO LAKE COUNTY**  
 CIVIL - 10 SERIES  
 BASE BID - BUNKER AV.

PROJECT NO:		<b>38407</b>
DRAWING NAME		10-C09
SHEET	OF	
14	15	



**PR. LEGEND:**

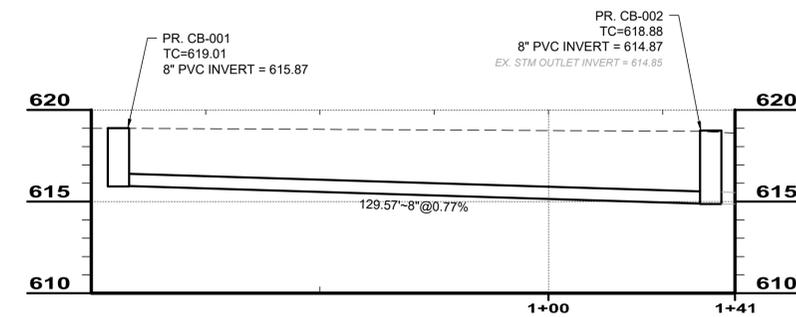
-  PR. ADA STRIPING OR PARKING ISLAND STRIPING
-  PR. CATCH BASIN
-  CONCRETE ADA RAMP REPLACEMENT
-  ASPHALT PAVEMENT RESURFACING LIMITS
-  CONCRETE DRIVEWAY APRON REPLACEMENT WITHIN THE R/W
-  CONCRETE WALK REPLACEMENT

**CODED NOTES:**

- ① DIRECTION ARROW PAVEMENT MARKING, PER DETAIL
- ② ADA STRIPING OR PARKING ISLAND MARKING
- ③ CURB, TYPE 6, PER DETAIL "(ODOT TYPE 6) 6" VERTICAL CURB", ON SHEET 5
- ④ ACCESSIBLE PARKING SYMBOL PER DETAIL ON SHEET 5
- ⑤ REPLACE CONCRETE WALK PER "CONCRETE WALK DETAIL" ON SHEET 6
- ⑥ 6 INCH CURB RAMP, INCLUDING FIBROUS REINFORCING, INCLUDING REMOVAL, AS PER PLAN - DETAILED ON SHEET 8
- ⑦ PR. STORM SEWER TO TIE INTO PR. CATCH BASIN
- ⑧ PR. NO. 2-2A CATCH BASIN PER DETAIL ON SHEET 9
- ⑨ CURB, TYPE 3, PER DETAIL "ODOT TYPE 3 CURB", ON SHEET 5
- ⑩ CONCRETE DRIVE APRON REPLACEMENT, PER DETAIL "CONCRETE DRIVE APRON DETAIL" ON SHEET 6
- ⑪ REMOVE EX. RAILING AND REPLACE LIKE IN KIND TO EDGE OF PR. ADA CURB RAMP

**GENERAL NOTES:**

1. EXISTING CONDITIONS SHOWN HEREIN ARE PER AERIAL PHOTOGRAPHY TO ESTABLISH HARDSCAPE EXTENTS.
2. EXISTING UNDERGROUND UTILITY ROUTING IS PER CITY GIS AND BEST AVAILABLE RECORD PLAN INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE EXISTING UTILITY LOCATIONS, DEPTHS, AND CONNECTIVITY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE REESTABLISH ALL EXISTING CONNECTIONS AND MAINTAIN UTILITIES IN PLACE DURING CONSTRUCTION. ANY DAMAGE INCURRED ON THE EXISTING UTILITIES DURING CONSTRUCTION SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
3. PR. RESURFACING AND STORM SEWER IMPROVEMENTS SHALL BE INSTALLED TO MAINTAIN POSITIVE DRAINAGE TO EX. OR PR. INLETS WITHIN THE PARKING LOT LIMITS OR E. 314TH STREET. ANY DEPRESSIONS OR PONDING FROM IMPROPER RESURFACE OR GRADING TO INLET STRUCTURES SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.
4. CONTRACTOR SHALL COAT FINISHED AND CURED CURB WITH YELLOW TRAFFIC PAINT TO MATCH THE EX. CURB ALONG RAMP SECTIONS



**SENIOR CENTER PARKING LOT STORM**



NO	REVISION	DATE

SCALE: AS SHOWN	DATE: 03/05/2025	DESIGNED BY: JPB	DRAWN BY: JPB	CHECKED BY: TJM
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**CITY OF WILLOWICK**  
**2026 ROAD PROGRAM**  
**WILLOWICK, OHIO LAKE COUNTY**

CIVIL - 10 SERIES

ALTERNATE A - SENIOR CENTER PARKING LOT REPLACEMENT

PROJECT NO:	
38407	
DRAWING NAME	
10C-12	
SHEET	OF
15	15