CITY OF RICHMOND HEIGHTS

2025 ROAD PROGRAM BRUSH ROAD RESURFACING

MAY 2025

CUYAHOGA COUNTY, OHIO

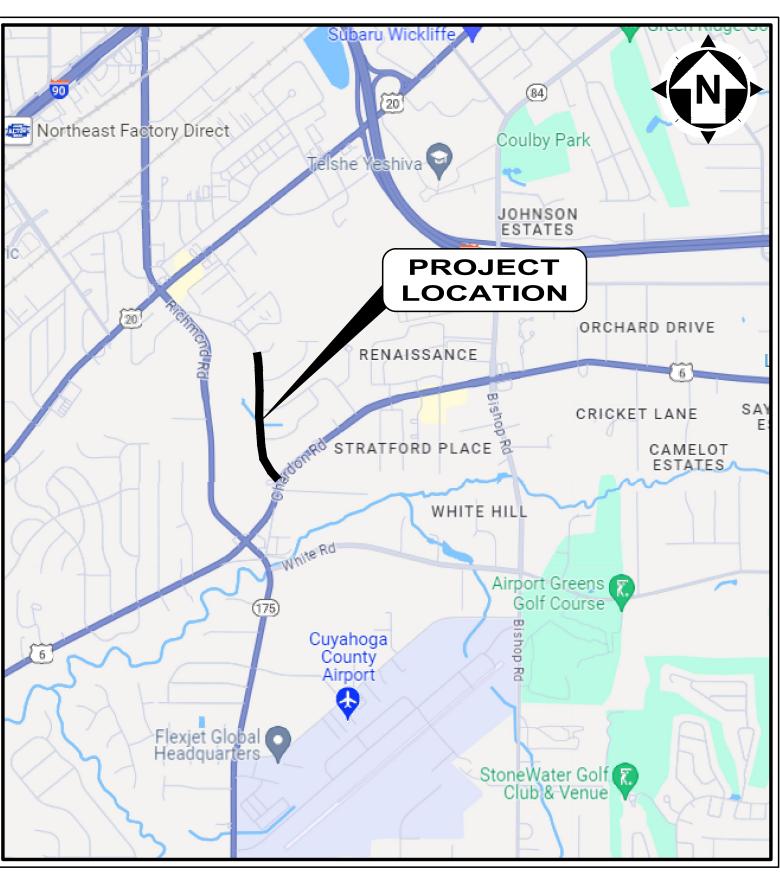


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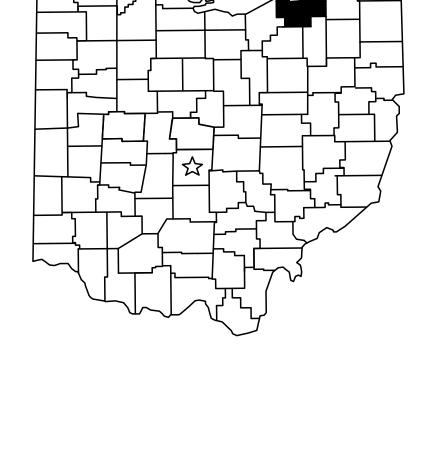


- 1. THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.
- 2. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE
- 3. THE CONTRACTOR IS RESPONSIBLE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



LOCATION MAP NOT TO SCALE

verdantas



CUYAHOGA COUNTY

CITY OFFICIALS:

COUNCIL-AT-LARGE

WARD COUNCIL

BOBBY JORDAN, PRESIDENT

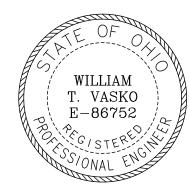
JUANITA LEWIS ASU MOOK ROBINSON, WARD II DANIEL J. URSU CASSANDRA NELSON, WARD III

TRACEY BLAIR, CLERK OF COUNCIL BRIAN SILVER, WARD IV

BAYYINAH BROOKS, SPECIAL ASSISTANT TO THE MAYOR

CITY ADMINISTRATORS:

R. TODD HUNTLAW DIRECTOR TOM DILELLIO FINANCE DIRECTOR CALVIN D. WILLIAMS POLICE CHIEF





5/27/2025

P.E. No. E-86752

DATE

- 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.
- 2. 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.
- BEFORE THE CITY WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR SHALL FURNISH THE CITY 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, AND A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
- 4. 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 HIS OWN EXPENSE. ALL COSTS ASSOCIATED FOR THIS WORK, INCLUDING THE VIDEO TAPE SURVEY, SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL UNLESS THERE IS A PRECONSTRUCTION VIDEO DOCUMENTATION BID ITEM INCLUDED IN THE PROJECT.
- 5. ALL PAVEMENT REMOVAL AND REPLACEMENT, NEW PAVEMENT AND ASSOCIATED ROADWAY WORK SHALL BE IN ACCORDANCE WITH THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION. HEREINAFTER REFERRED TO AS "ODOT", CONSTRUCTION AND MATERIAL SPECIFICATIONS, STANDARD CONSTRUCTION DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS, 2023, WITH THE MODIFICATIONS AS SET FORTH IN THESE SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE INSTALLING ANY PROPOSED MANHOLES OR CATCH BASINS. ANY ADJUSTMENTS NEEDED SHALL BE APPROVED BY THE ENGINEER.
- 7. ALL NEW INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY.

IT IS THE DESIRE OF THE CITY OF RICHMOND HEIGHTS TO HAVE THE CONTRACT WORK PROCEED IN AN ORDERLY AND NEAT MATTER IN ORDER TO KEEP THE DISRUPTION TO THE BUSINESSES AND RESIDENTS TO A MINIMUM. THUSLY THE CONTRACTOR IS TO PREPARE AND IMPLEMENT A WORK PHASING PLAN, APPROVED BY THE DIRECTOR OF PUBLIC SERVICE AND THE ENGINEER, INCLUSIVE OF THE FOLLOWING REQUIREMENTS:

- ALL WORK SHALL BE 1/2 WIDTH, EXCEPT FOR ASPHALT MILLING AND RESURFACING OPERATIONS.
- 2. NO WORK SHALL BE DONE ON THE OPPOSITE SIDE OF THE STREET UNTIL ALL NEW PAVEMENT (CONCRETE OR ASPHALT BASE AND INTERMEDIATE COURSES), DRIVE APRONS, SIDEWALKS AND ROUGH GRADE LANDSCAPING ARE IN PLACE ON THE SIDE BEING CONSTRUCTED.
- 3. THE CITY MAY, ACCEPT A PHASING PLAN CONSISTING OF PERFORMING 1/2 WIDTH IMPROVEMENTS ALONG THE SECTIONS/PHASES OF THE PROJECT LENGTH. THE CONTRACTORS PLAN SHALL SUBSTANTIALLY COMPLETE EACH PHASE ON BOTH SIDES OF THE RIGHT-OF-WAY BEFORE MOVING ON THE THE NEXT PHASE.
- 4. DRIVE APRON ACCESS IS TO BE MAINTAINED AT ALL TIMES EXCEPTING DURING CONCRETE PLACEMENT AND CURING.

EXISTING UTILITIES

- THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE CITY OF RICHMOND HEIGHTS AND THE CLEVELAND WATER DEPARTMENT DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.
- 2. 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. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE CITY OF RICHMOND HEIGHTS, 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 RICHMOND HEIGHTS, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.
- 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:

AT&T JAMES JANIS 13630 LORAIN AVE CLEVELAND OHIO 44111

216-534-7285 Pj8191@att.com

CHARTER ROB ZELKO 7820 DIVISION DR. **MENTOR OHIO 44060** 330-633-9203 Rob.Zelko@charter.com

CLEVELAND WATER FRED ROBERTS 1201 LAKESIDE AVE **CLEVELAND OHIO 44114** 216-664-2444 ext 75590 fred_roberts@clevelandwater.com

ENBRIDGE GAS 320 SPRINGSIDE DR. SUITE 320 AKRON OHIO 44333 330-664-2409 relocation@dominionenergy.com CLEVELAND OHIO 44115

FVFRSTRFAM GIO REILLO 1228 EUCLID AVE SUITE 250 CLEVELAND OHIO 44115 216-905-0780 greillo@everstream.net THE ILLUMINATING COMPANY JOHN ZASSICK BROOKLYN SERVICE CENTER

3601 RIDGE RD.

440-546-8706

CLEVELAND, OHIO 44102

jmzassick@firstenergycorp.com

verdantas

SEWER **ROB STOERKEL** 3900 EUCLID AVE

> CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS CUYAHOGA COUNTY ADMINISTRATIVE **HEADQUARTERS** 2079 E. 9TH STREET, 5TH FLOOR CLEVELAND, OH 44115 ATTN: LAURA WEBER

> > NO

NORTHEAST OHIO REGIONAL

216-881-6600 x6802 stoerkelr@neorsd.org

DISPOSED OF WITHIN THE CITY LIMITS. 216-443-8205 laweber@cuyahogacounty.gov

4. WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS 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 RICHMOND HEIGHTS. 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.

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

- 1. ALL ACTIVE DRAINAGE PIPES ENCOUNTERED SHALL BE RECONNECTED TO EXISTING FACILITIES OR CONNECTED TO THE NEW FACILITIES.
- ALL EXISTING UTILITY SERVICE CONNECTIONS (SANITARY, STORM, WATER, GAS, ELECTRIC, TELEPHONE, ETC.) WHICH ARE DAMAGED DURING THE INSTALLATION OF PIPE SHALL BE REPAIRED WITH LIKE MATERIALS OR REPLACED, AS REQUIRED. THE COST OF UTILITY SERVICE CONNECTION REPAIR/REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICES FOR ALL ITEMS IN THE PROPOSAL.
- 3. ALL UTILITY LINES CROSSING THE NEW TRENCH SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS; OR REMOVED, REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED IN-KIND.
- 4. THE CONTRACTOR SHALL BE REQUIRED TO BYPASS AND MAINTAIN THE FLOW TO/FROM ALL HOUSE UTILITY CONNECTIONS DURING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL EXPECT ONE UNDERGROUND SEWER, GAS AND WATER CONNECTION FOR EACH LOT (INCLUDING VACANT LOTS) ON BOTH SIDES OF THE STREET FOR THE ENTIRE PROJECT LENGTH.
- 6. THE COST OF UTILITY RELOCATION, REPLACEMENT, AND/OR SUPPORT SHALL BE INCLUDED IN THE COST PER LINEAL FOOT OF ASSOCIATED SEWER REPAIR.

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.

RESTORATION OF TREELAWNS AND GRASS AREAS IN EASEMENTS SHALL BE PERFORMED BY A LANDSCAPE CONTRACTOR TO BE APPROVED BY THE CITY ENGINEER AND SERVICE DIRECTOR. THE LANDSCAPE CONTRACTOR MUST BE EXPERIENCED IN COMMERCIAL INSTALLATIONS AND PROVIDE REFERENCES AND OTHER DETAILED INFORMATION TO ENABLE THE OWNER TO JUDGE HIS EXPERIENCE AND CAPABILITY TO PERFORM THE WORK. GRASS AREAS TO BE RESTORED SHALL BE SEEDED UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS. THE SEED SHALL BE PLACED ON A FOUR (4) INCH BED OF COMPACTED TOPSOIL THAT HAS BEEN RAKED AND BROUGHT TO AN EVEN SURFACE. TOPSOIL SHALL BE SHREDDED AND BE FREE OF ROCKS, ROOTS AND WEEDS. THE CONTRACTOR SHALL PROVIDE TOPSOIL SAMPLES AND SOURCES OF SUPPLY TO THE ENGINEER FOR APPROVAL PRIOR TO DELIVERY OF THE MATERIAL TO THE JOB SITE.

EROSION AND DUST CONTROI

- SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY HYDRO 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.
- 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.
- THE CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS OR DRIVES BY HIS 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.
- 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

REVISION

ALL EXCESS EXCAVATION SHALL BE DISPOSED OF IN A LOCATION TO BE SELECTED BY THE CONTRACTOR. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE CITY IF THE MATERIAL IS TO BE

DATE

1. SEE MAINTENANCE OF TRAFFIC PLAN

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 R/W. 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 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.

THE FOLLOWING ITEMS OF WORK HAVE BEEN INCLUDED AS CONTINGENCY QUANTITIES ON THE PROJECT BID FORM:

TEM 253	PAVEMENT REPAIR, AS PER PLAN	400	SY
ГЕМ 609	CURB, TYPE 2-B	700	FT

CITY OF RICHMOND HEIGHTS

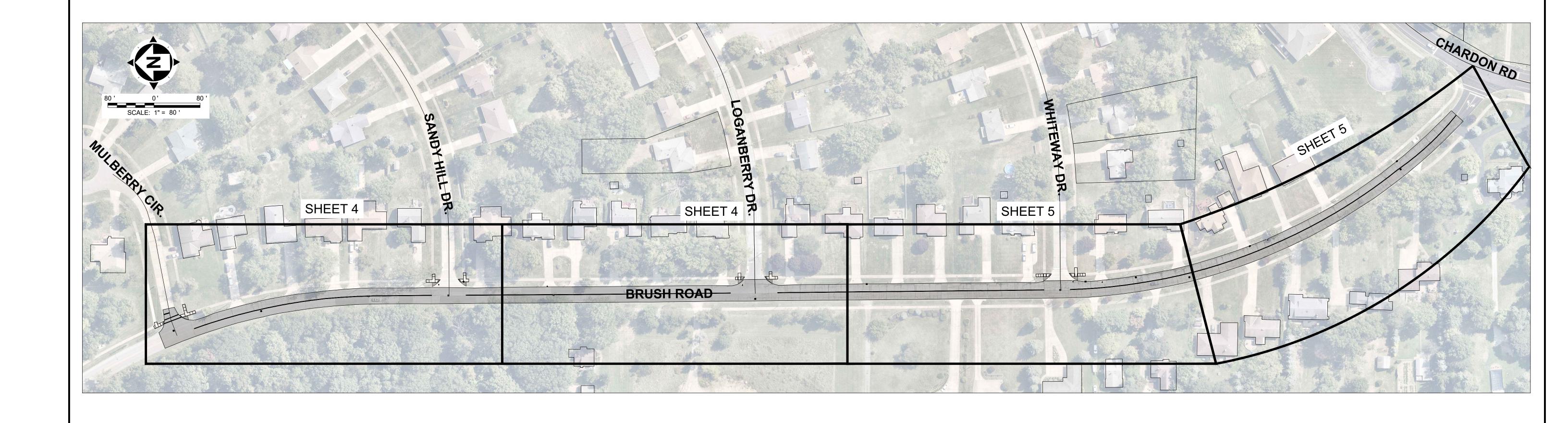
2025 ROAD PROGRAM BRUSH ROAD RESURFACING

CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MAY 2025
SCALE:	AS SHOWN
DESIGNED BY:	JCR
DRAWN BY:	JCR
CHECKED BY:	WTV

GENERAL NOTES

PROJECT NO. 33007 DISCIPLINE CIVIL SHEET NAME GN-1 15



	NO	REVISION	DATE
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CITY OF RICHMOND HEIGHTS

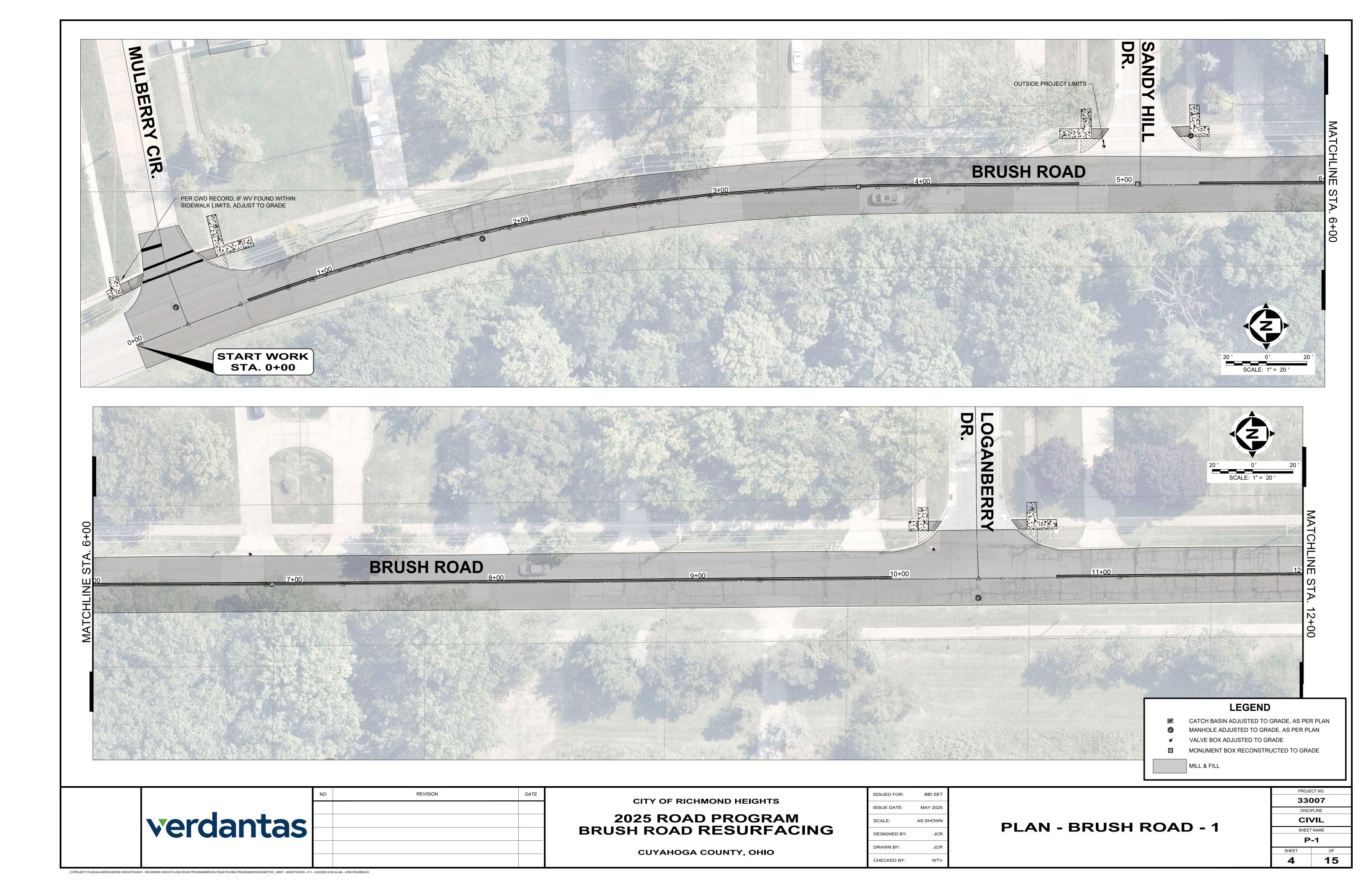
2025 ROAD PROGRAM BRUSH ROAD RESURFACING

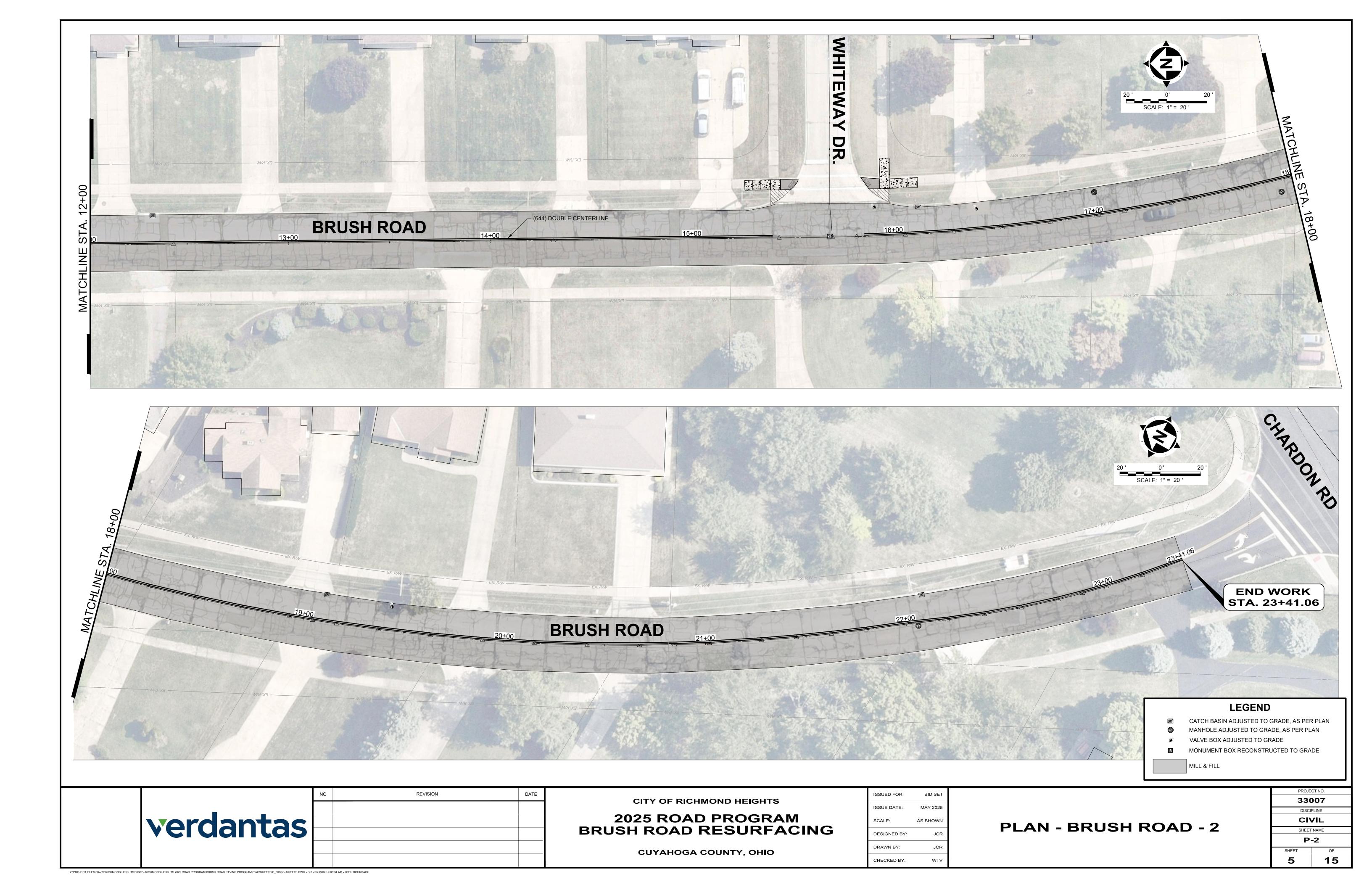
CUYAHOGA COUNTY, OHIO

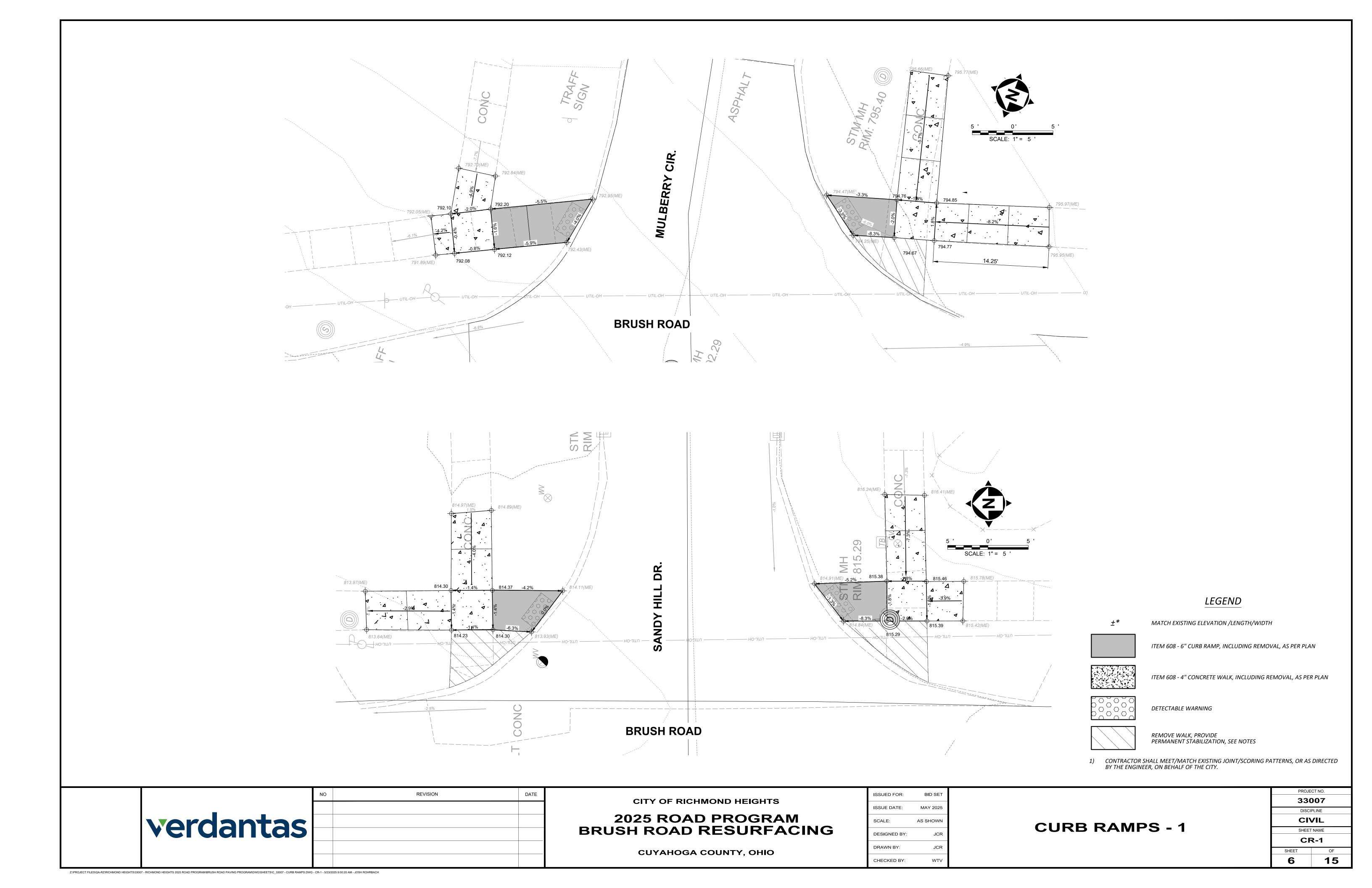
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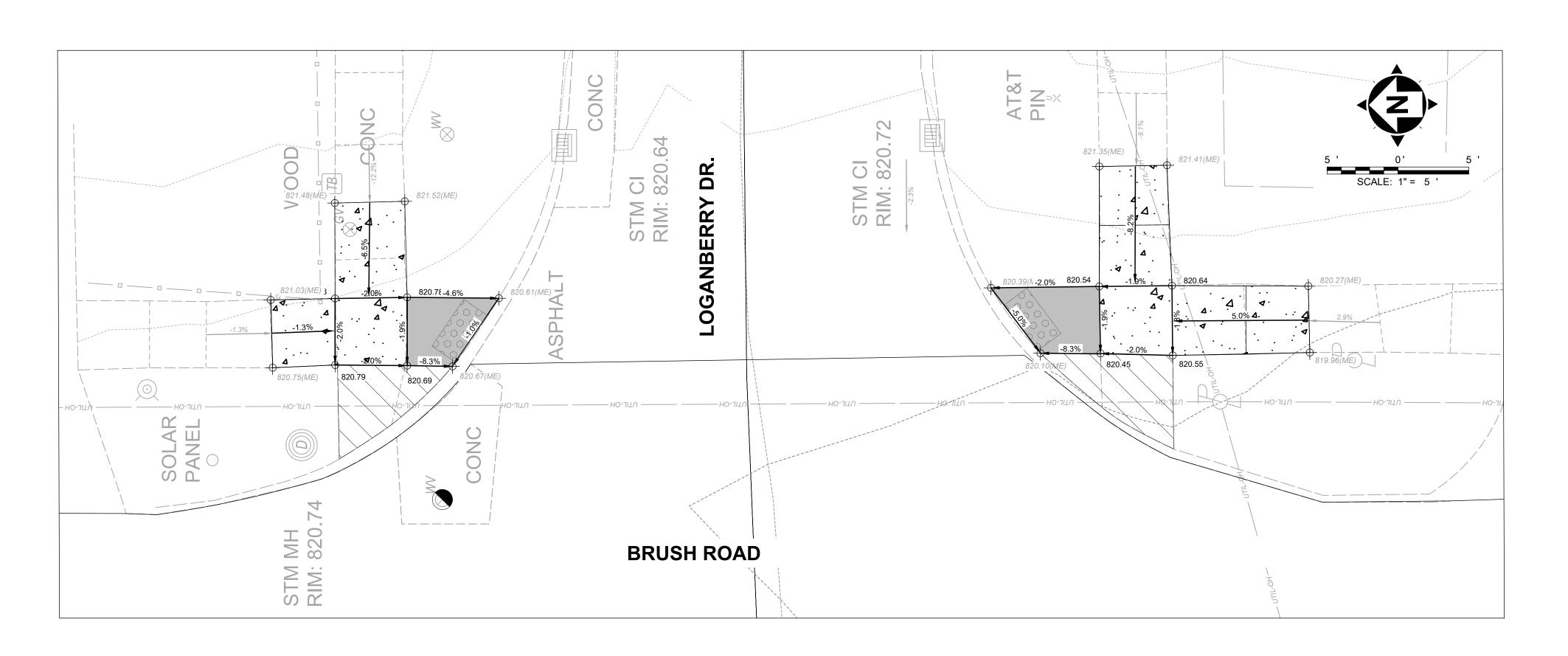
SCHEMATIC PLAN

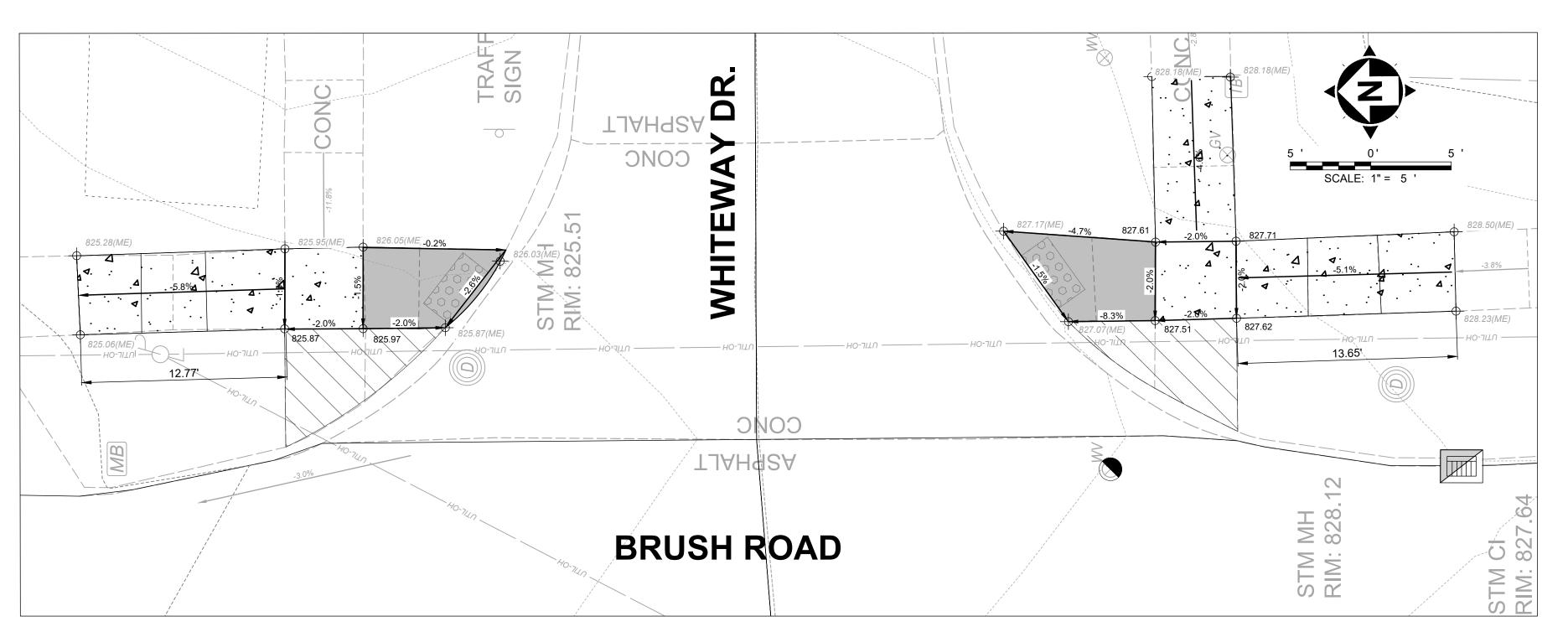
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3	15	











LEGEND

<u></u> ±*

MATCH EXISTING ELEVATION /LENGTH/WIDTH

ITEM 608 - 6" CURB RAMP, INCLUDING REMOVAL, AS PER PLAN

ITEM 608 - 4" CONCRETE WALK, INCLUDING REMOVAL, AS PER PLAN

DETECTABLE WARNING

REMOVE WALK, PROVIDE PERMANENT STABILIZATION, SEE NOTES

1) CONTRACTOR SHALL MEET/MATCH EXISTING JOINT/SCORING PATTERNS, OR AS DIRECTED BY THE ENGINEER, ON BEHALF OF THE CITY.

verdantas NO REVISION DATE

CITY OF RICHMOND HEIGHTS

2025 ROAD PROGRAM BRUSH ROAD RESURFACING

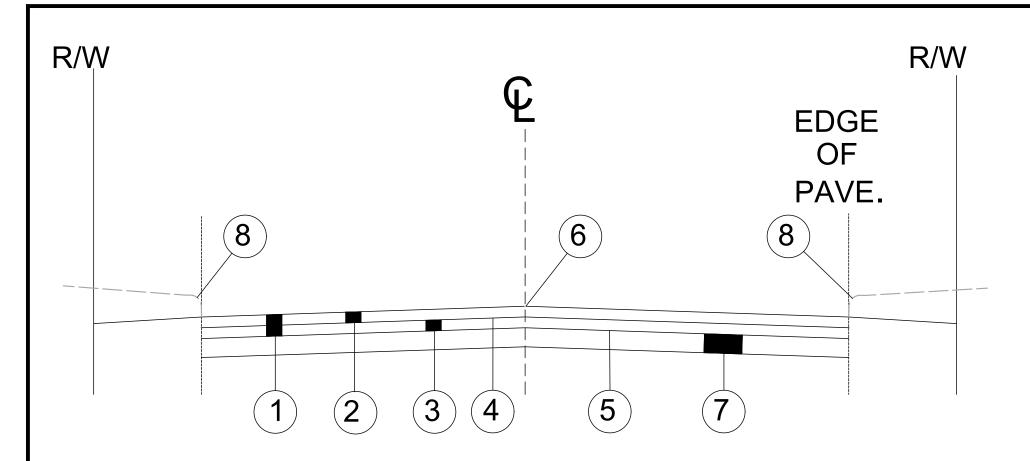
CUYAHOGA COUNTY, OHIO

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CURB RAMPS - 2

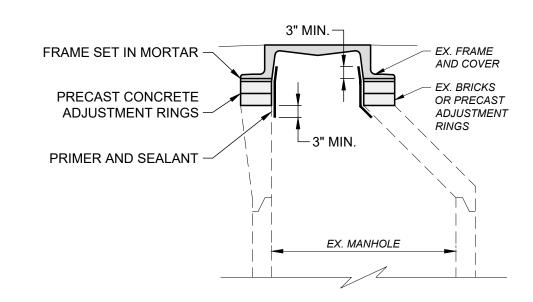
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Z:\PROJECT FILES\QA-RZ\RICHMOND HEIGHTS\33007 - RICHMOND HEIGHTS 2025 ROAD PROGRAM\BRUSH ROAD PAVING PROGRAM\DWG\SHEETS\C_33007 - CURB RAMPS.DWG - CR-2 - 5/23/2025 9:00:20 AM - JOSH ROHRBACH



- 1 PAVEMENT PLANING (3" AVERAGE)
- 2 1-1/4" ASPHALT CONCRETE SURFACE COURSE TYPE 1, (448), AS PER PLAN
- 3 1-3/4" ASPHALT CONCRETE INTER MEDIATE COURSE, TYPE 2, (448), AS PER PLAN
- NON-TRACKING TACK COAT FOR INTERMEDIATE COURSE, 0.04 GAL/SY
- CINCLE CUID CEAL TYPE A FOR MULEI
- 5 SINGLE CHIP SEAL, TYPE A FOR MILLED SURFACE
- 6 LONGITUDINAL JOINT ADHESIVE (875). CONTRACTOR TO FOLLOW ODOT BP-3.1, METHOD 1
- (7) EX. CONCRETE BASE
- (8) EX. CURB

TYPICAL SECTION SCALE: NONE

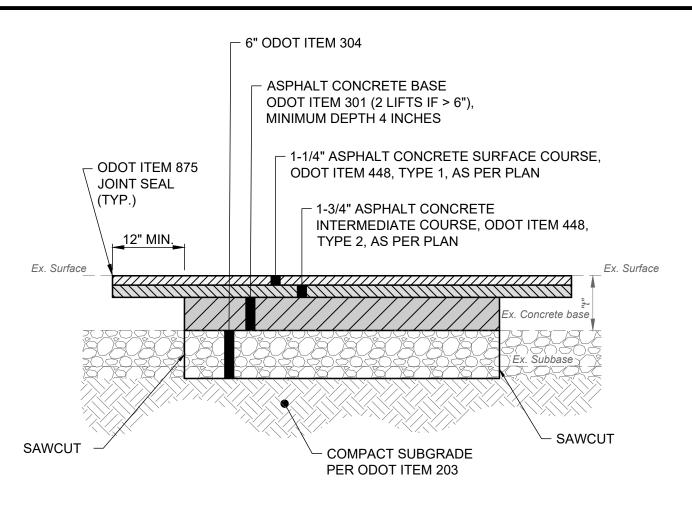


NOTES

- REMOVE FRAME AND CASTING.
- 2. CLEAN SURFACES OF FRAME, CASTING AND PRECAST MANHOLE. REMOVE RUST, DEBRIS AND LOOSE MORTAR.
- 3. CLEAN SURFACES OF ADJUSTMENT RINGS OR BRICKS. REMOVE LOOSE BRICK AND MORTAR. IF EXCESSIVE BRICK DAMAGE, REPLACE WITH NEW ADJUSTMENT RINGS.
- 4. APPLY PRIMER AND SEALANT (I.E. FLEX-SEAL) TO MANHOLE ADJUSTMENT RINGS. THICKNESSES SHALL BE PER MANUFACTURER'S RECOMMENDATION. APPLY TO ENTIRE SURFACE OF ADJUSTMENT RINGS, AS WELL AS MANHOLE STRUCTURE AND CASTING AT LEAST 3" ABOVE AND BELOW ADJUSTMENT RINGS. ALLOW PRIMER TO CURE PRIOR TO APPLYING SEALANT.

ADJUST SANITARY MANHOLE CASTING & REHABILITATE ADJUSTMENT RING DETAIL

SCALE: NONE

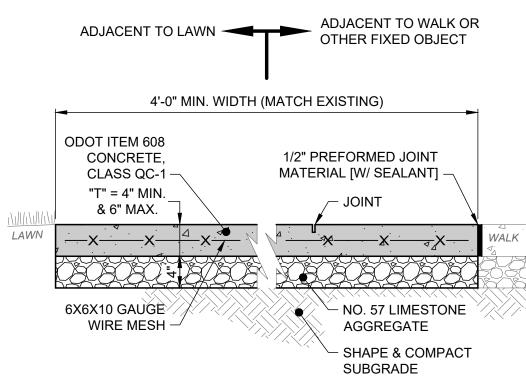


NOTES:

- 1. ASPHALT PAVEMENT TO BE REMOVED SHALL BE SAW CUT IN A NEAT AND STRAIGHT LINE AT THE LIMITS SHOWN ON THE PLANS OR AS FIELD MARKED BY THE ENGINEER. ADDITIONAL SAW CUTS MAY BE DESIRED TO FACILITATE REMOVAL. BUT THERE WILL BE NO EXTRA PAYMENT.
- 2. PAVEMENT SHALL BE REMOVED WITHOUT DAMAGING OR UNDERMINING THE PAVEMENT TO REMAIN. IF ADJACENT PAVEMENT IS DAMAGED, THE CONTRACTOR SHALL MAKE ADDITIONAL SAW CUTS, REMOVE THE DAMAGED AREAS AND REPAIR AS NECESSARY WITH NO ADDITIONAL COMPENSATION.
- 3. TACK COAT SHALL BE APPLIED TO THE EXPOSED EX. ASPHALT BASE COURSE AND ALL SIDES OF PATCH.
- 4. ODOT ITEM 875 JOINT SEALANT SHALL BE APPLIED AROUND THE EDGE OF PATCH.

PAVEMENT REPAIR DETAIL

SCALE: NONE

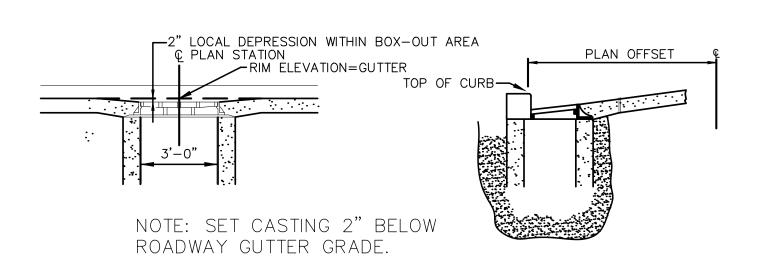


NOTES:

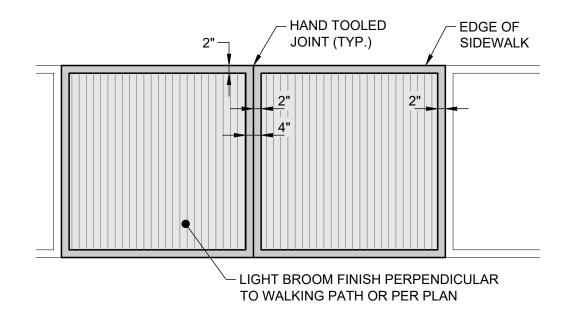
- . CONTRACTOR SHALL DETERMINE LOCATION OF ALL JOINTS. DIVIDE JOINTS INTO EQUALLY SPACED RECTANGULAR BLOCKS (4' MIN.).
- 2. SAW CUT OR HAND TOOL JOINT 1/8" WIDE BY 1/4 OF "T" DEEP.
- 3. ROUND ALL EDGES AND JOINTS WITH A 1/4" RADIUS.
- 4. INSTALL PREFORMED JOINT MATERIAL EVERY 30', OR BETWEEN SIDEWALK AND FIXED OBJECT (I.E. MANHOLE, WALK, BUILDING).
- 5. LIGHTLY BROOM THE FINISH PERPENDICULAR TO THE WALKING PATH OR PER PLAN. IF HAND TOOLED JOINTS AND EDGES ARE SPECIFIED, FINISH AFTER PANEL INTERIOR TEXTURE HAS BEEN APPLIED (I.E WINDOW PANE EFFECT).
- 6. APPLY LIQUID-MEMBRANE CURING COMPOUND (200 S.F./GAL.).

CONCRETE WALK DETAIL

SCALE: NONE



INLET CASTING ADJUSTMENT AND GRADING DETAIL

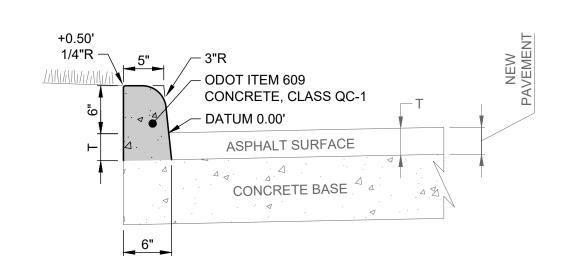


NOTE

- 1. HAND TOOLED JOINTS AND EDGES SHALL BE APPLIED AFTER PANEL INTERIOR TEXTURE HAS BEEN APPLIED TO CREATE A "WINDOW PANE" EFFECT AROUND EACH PANEL.
- 2. TOOLED EDGE SHALL BE 2" WIDTH EACH SIDE OF JOINT.

CONCRETE SIDEWALK JOINT & FINISH DETAIL

SCALE: NONE

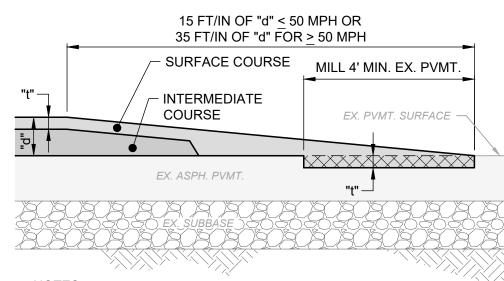


NOTES

- 1. "T" IS THE THICKNESS OF THE NEW ASPHALT SURFACE AND INTERMEDIATE COURSE.
- INTERMEDIATE COURSE.

 2. INSTALL 1/2" PREFORMED JOINT MATERIAL AND USE 5/8"Ø X 18" LONG
- DOWELS INTO COLD JOINTS TOP AND BOTTOM WHERE NEW CURB MEETS EXISTING CURB.
- 3. PROVIDE CONTRACTION JOINTS AT 10' O.C.
- 4. APPLY LIQUID-MEMBRANE CURING COMPOUND. SCALE: NONE

(ODOT TYPE 2B) 6" INTEGRAL VERTICAL CURB DETAIL

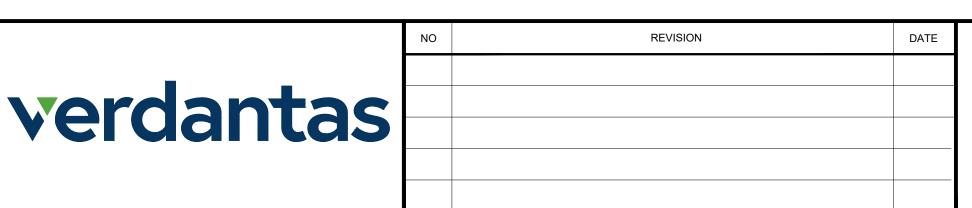


NOTES:

- BOTH THE EXISTING AND MILLED BASE PAVEMENT SHALL BE CLEANED TO A BROOM-CLEAN CONDITION.
- 2. TACK COAT SHALL BE APPLIED TO THE EXISTING ASPHALT SURFACE AND ALL SIDES OF PATCH.
- A SEALANT SHALL BE APPLIED ALONG ALL EDGES WHERE NEW ASPHALT MEETS EXISTING ASPHALT.

OVERLAY BUTT JOINT DETAIL

SCALE: NONE



CITY OF RICHMOND HEIGHTS

2025 ROAD PROGRAM BRUSH ROAD RESURFACING

CUYAHOGA COUNTY, OHIO

ISSUED FOR:	BID SET
ISSUE DATE:	MAY 2025
SCALE:	AS SHOWN
DESIGNED BY:	JCR
DRAWN BY:	JCR
CHECKED BY:	WTV

TYPICAL SECTIONS

PROJECT NO.

33007

DISCIPLINE

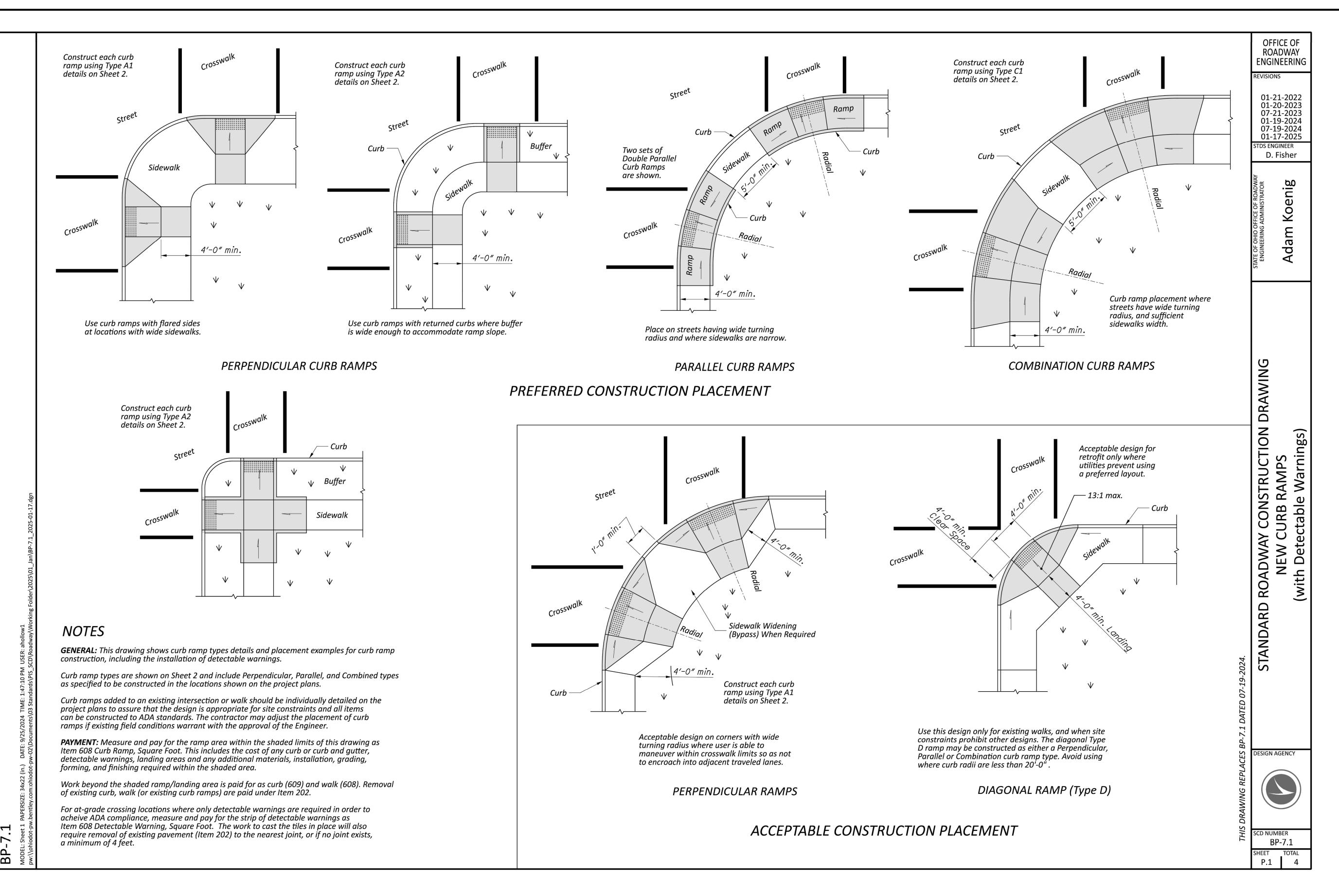
CIVIL

SHEET NAME

D-1

SHEET OF

8 15



verdantas No REVISION DATE

CITY OF RICHMOND HEIGHTS

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CURB RAMP DETAILS

PROJECT NO.

33007

DISCIPLINE

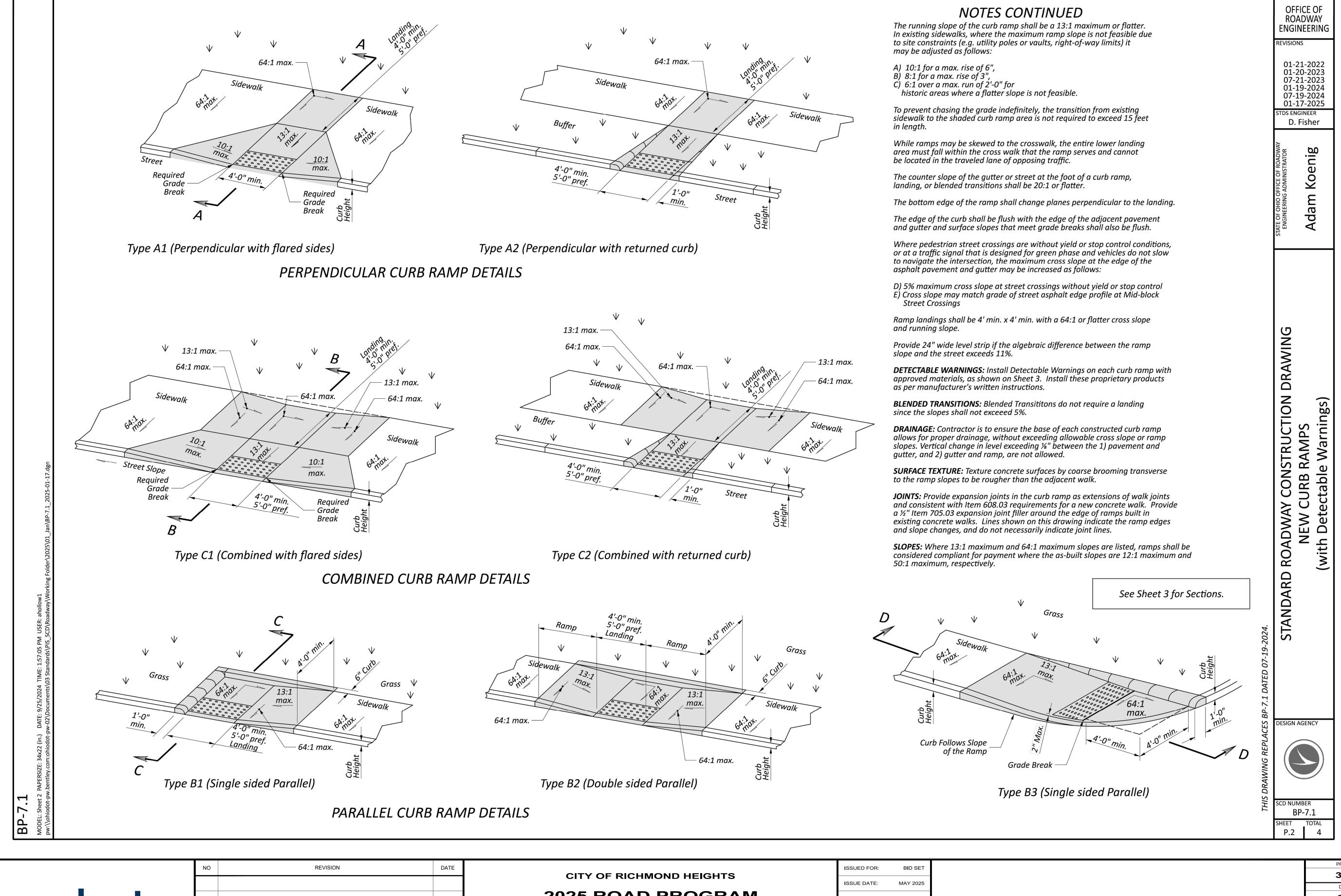
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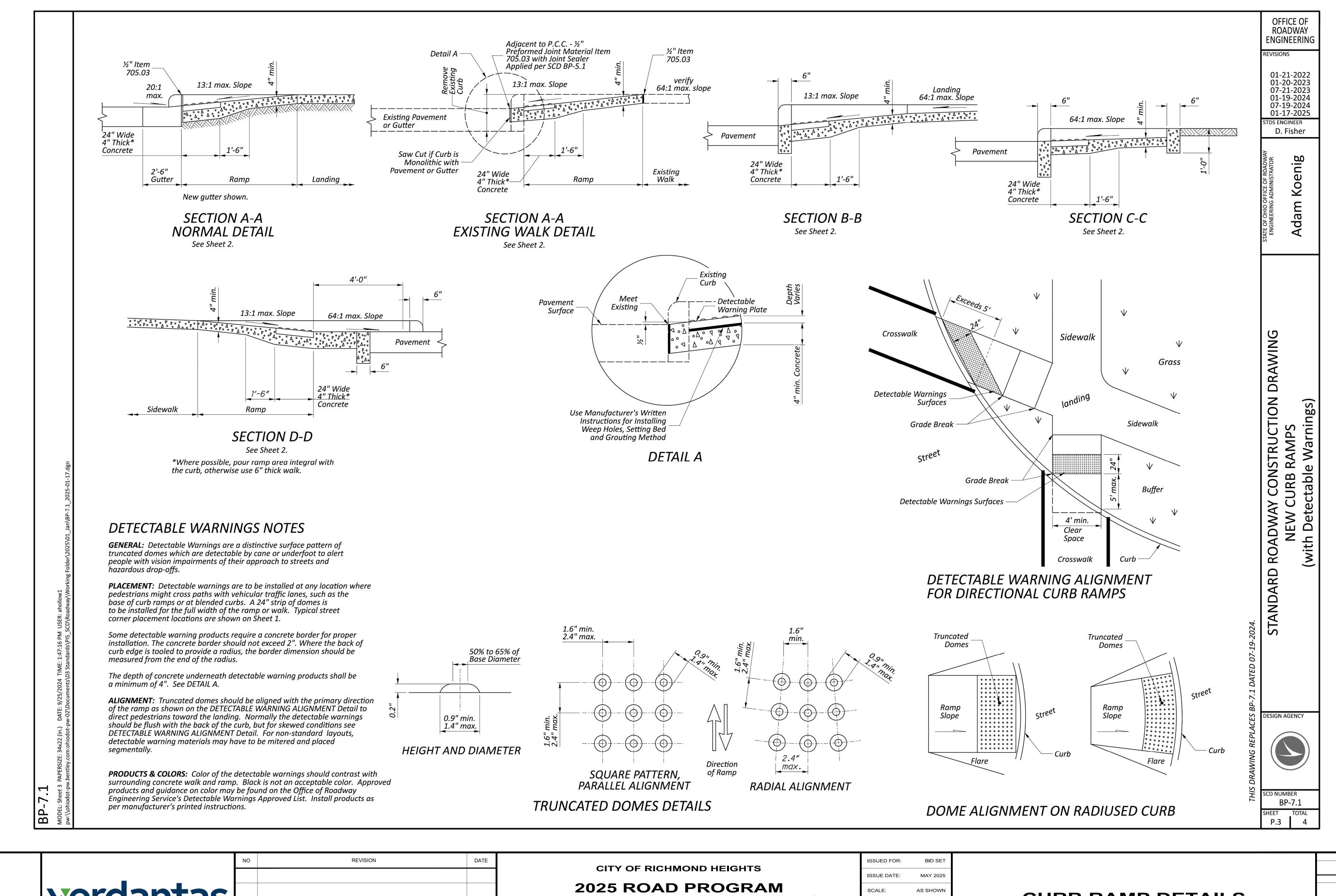
2025 ROAD PROGRAM BRUSH ROAD RESURFACING

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CURB RAMP DETAILS

PROJE	CT NO.
33007	
DISCIPLINE	
CIVIL	
SHEET NAME	
D	-3
SHEET	OF
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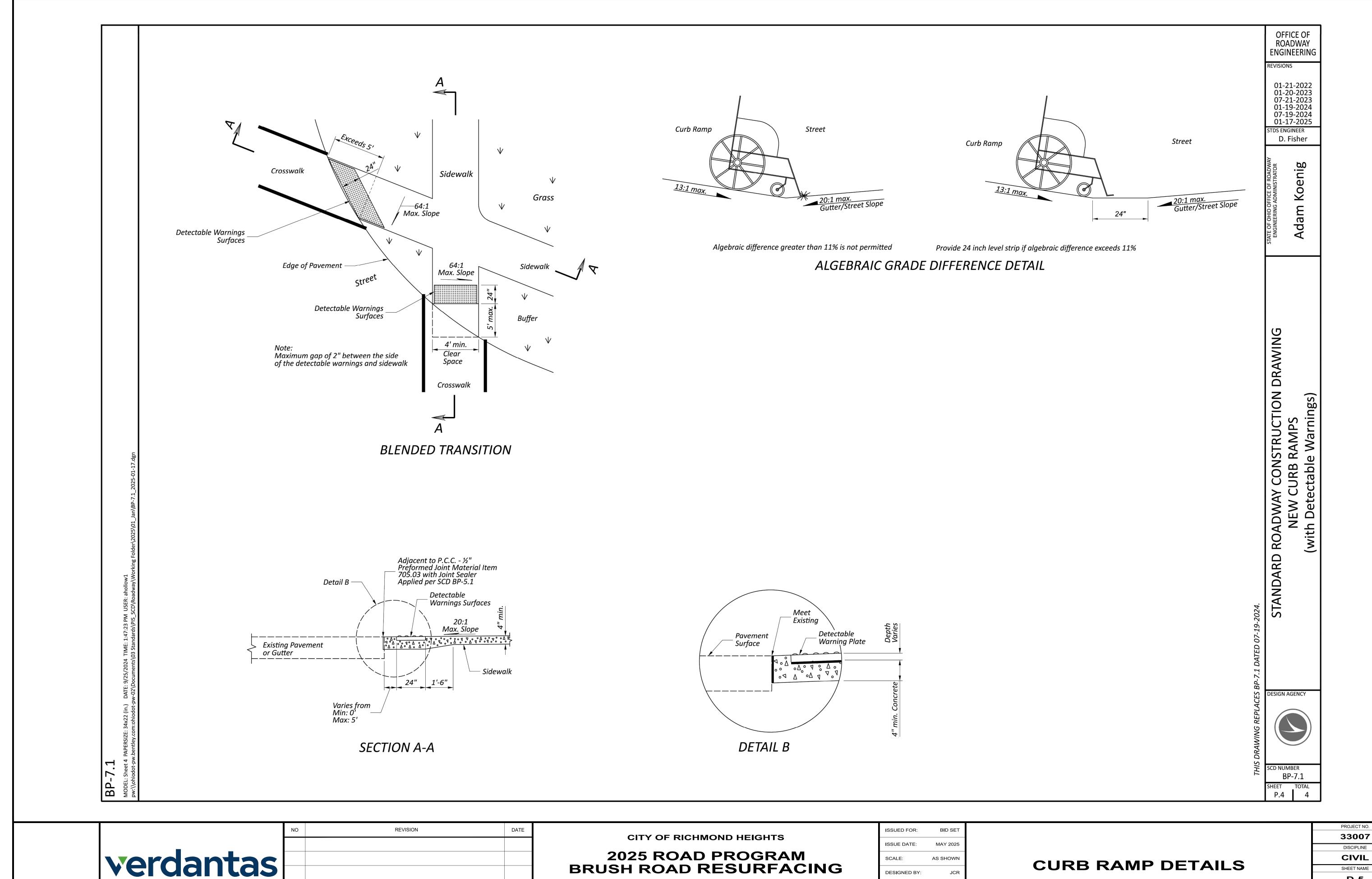
BRUSH ROAD RESURFACING

CUYAHOGA COUNTY, OHIO

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CHECKED BY:	WTV

CURB RAMP DETAILS

PROJECT NO. 33007 DISCIPLINE CIVIL SHEET NAME **D-4** SHEET 15

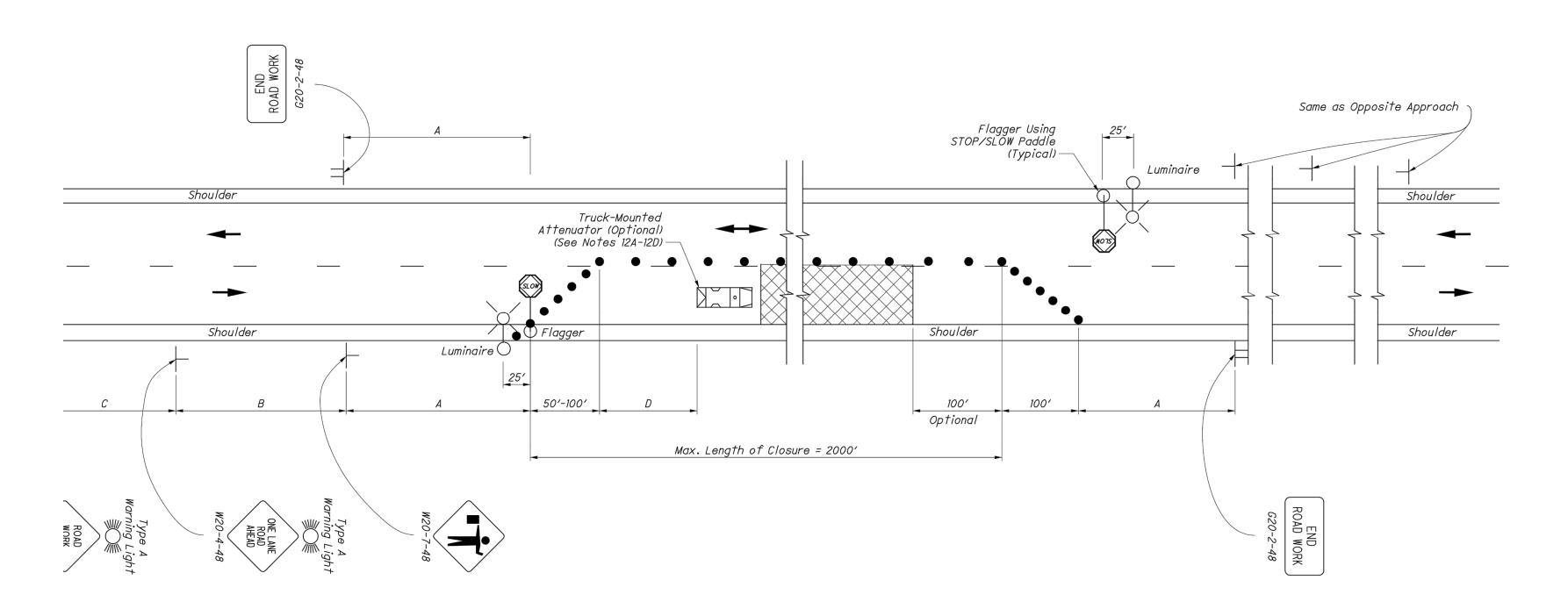


Z:\PROJECT FILES\QA-RZ\RICHMOND HEIGHTS\33007 - RICHMOND HEIGHTS 2025 ROAD PROGRAM\BRUSH ROAD PAVING PROGRAM\DWG\SHEETS\C_33007 - DETAILS.DWG - D-5 - 5/21/2025 12:38:10 PM - JOSH ROHRBACH

CUYAHOGA COUNTY, OHIO

ISSUE DATE:	MAY 2025
SCALE:	AS SHOWN
DESIGNED BY:	JCR
DRAWN BY:	JCR
CHECKED BY:	WTV

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NOTES:

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 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 (WŽO-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

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 iš necessary.

- 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-
- 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 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 aďjaceňt 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

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 whenver workers are not in the work area.
- 12B. The shadow vehicle shall be equipped with a high-intensity yellow rotating, flashing, oscillating, or
- 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.

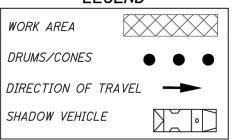
CHIP SEAL OPERATIONS

- 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

TABLE I (SIGN SPACING)

	DISTANCE BETWEEN SIGNS (FT)		
ROAD TYPE	А	В	С
Two-Lane (≤ 40 MPH)	100	100	100
Two-Lane (45-50 MPH)	350	350	350
Two-Lane (55-60 MPH)	500	500	500

LEGEND



SPEED BUFFER

LIMIT (MPH)	(D) (FT) MIN.	
25	155	
30	200	
35	250	
40	305	
45	360	
50	425	
55	495	
60	570	
		1

TABLE II

ADDITIONAL TRAFFIC MAINTENANCE NOTES

- 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.
- 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.
- 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
- 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.
- NOTICE OF CLOSURE SIGNS, FOR SEVERAL SIDE ROADS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED 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 ERECTED AT THE POINT OF CLOSURE.
- 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.
- 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.
- 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.
- 10. 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.

REVISION NO DATE verdantas

CITY OF RICHMOND HEIGHTS

2025 ROAD PROGRAM BRUSH ROAD RESURFACING

CUYAHOGA COUNTY, OHIO

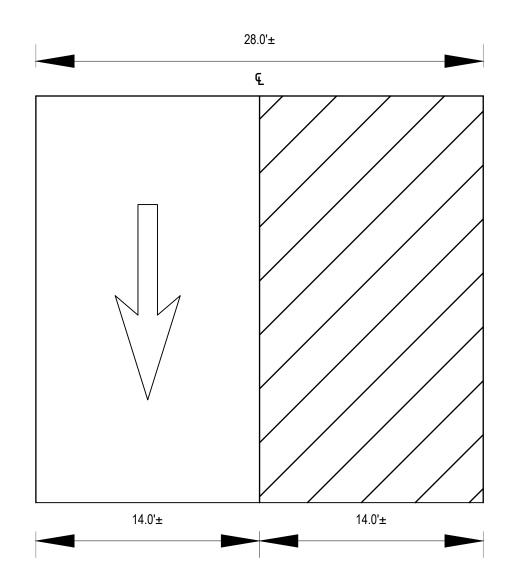
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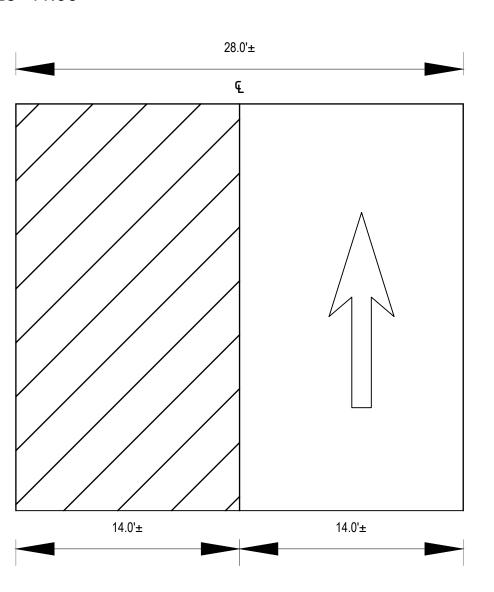
MAINTENANCE OF TRAFFIC NOTES

PROJI	PROJECT NO.		
33	33007		
DISC	DISCIPLINE		
CI	CIVIL		
SHEE	SHEET NAME		
M	МОТ		
SHEET	OF		
13	15		

SECTION 1

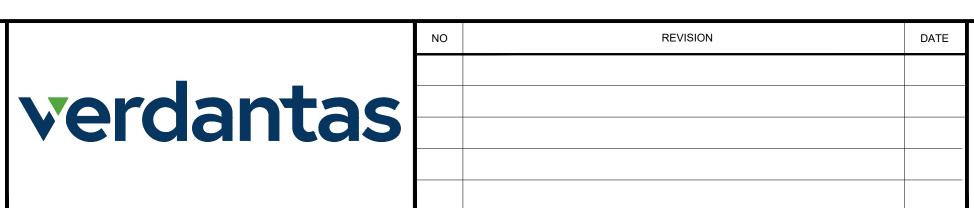
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PHASE 1

PHASE 2



CITY OF RICHMOND HEIGHTS

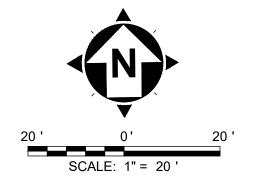
2025 ROAD PROGRAM BRUSH ROAD RESURFACING

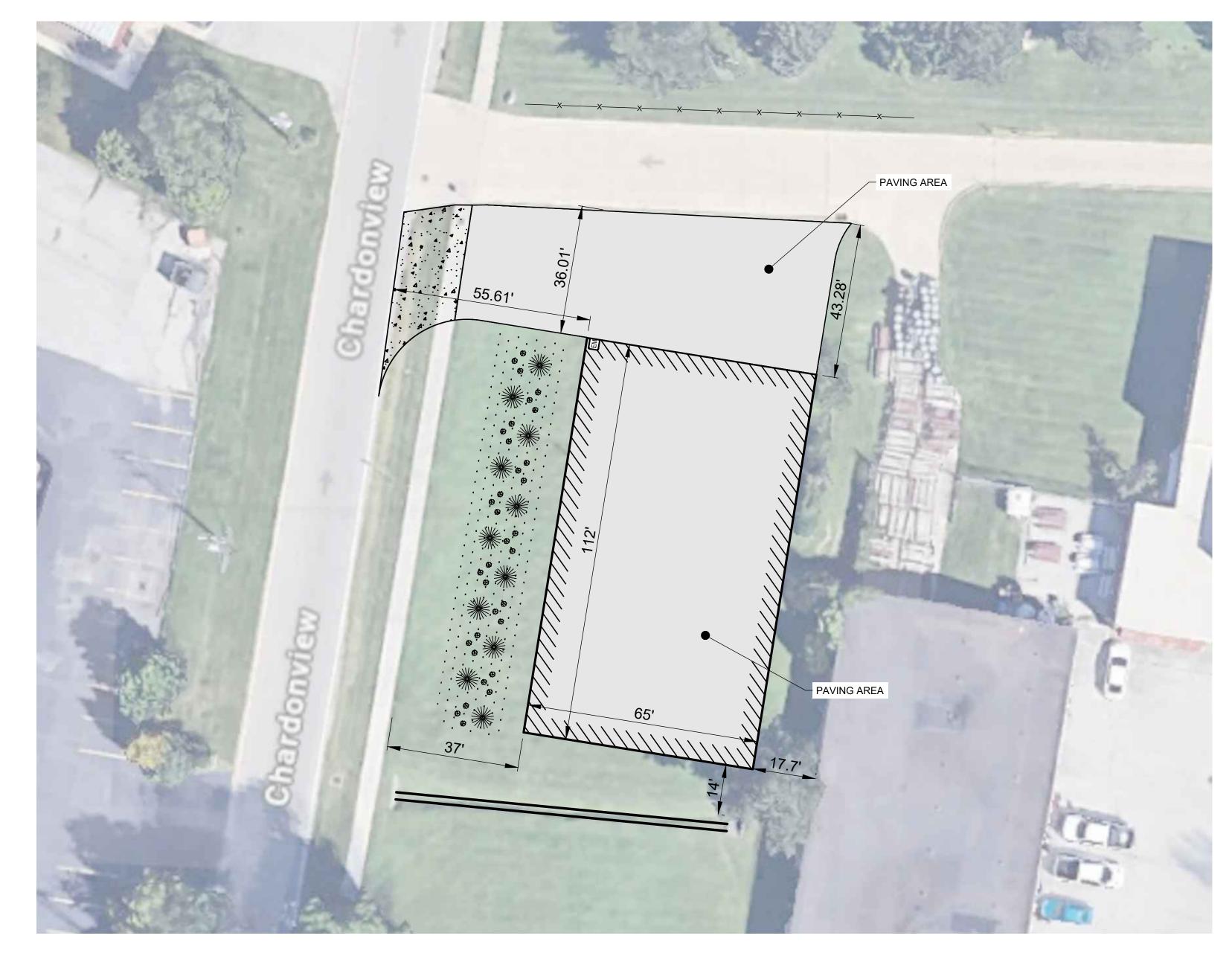
CUYAHOGA COUNTY, OHIO

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MAINTENANCE OF TRAFFIC DETAILS

PROJECT NO.		
33007		
DISCIPLINE		
CIVIL		
SHEET NAME		
MOT-2		
SHEET OF		
14	15	





SALT STORAGE BUILDING - ASPHALT PAVING AREA SCHEMATIC PLAN

NOTES:

- 1. SCHEMATIC SITE PLAN FOR ILLUSTRATIVE PURPOSES.
- 2. GRADING, SUBGRADE COMPACTION, AND AGGREGATE BASE BY
- 3. CONTRACTOR TO PROVIDE ASPHALT PAVEMENT SECTION AS SHOWN ON DETAIL WITHIN BUILDING AND BETWEEN BUILDING AND EXISTING DRIVEWAY.
- 4. THIS SITE IS LOCATED AT:
 RICHMOND HEIGHTS SERVICES DEPARTMENT

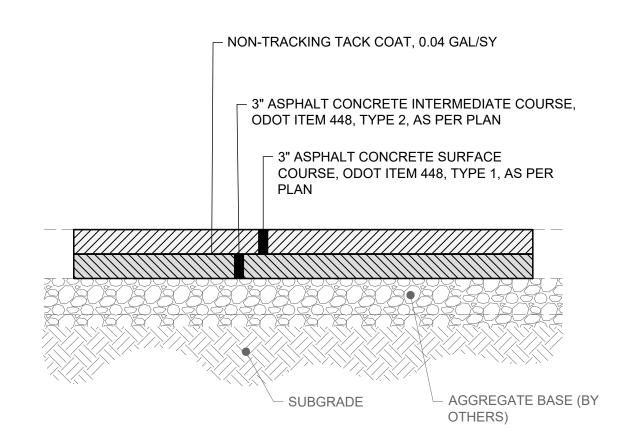
26260 CHARDONVIEW, CLEVELAND, OH 44143

LEGEND

PROPOSED ASPHALT PAVEMENT



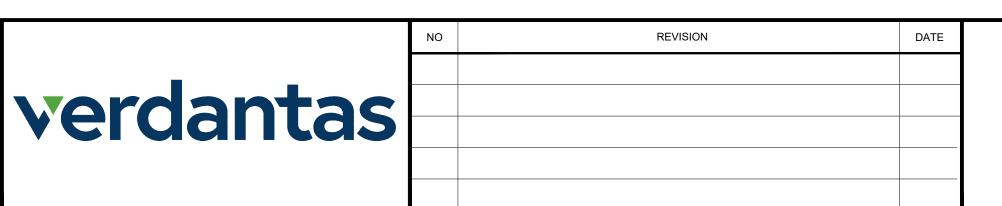
CONCRETE PAVEMENT (BY OTHERS)



ASPHALT PAVEMENT SECTION

DETAIL

SCALE: NONE



CITY OF RICHMOND HEIGHTS

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SALT STORAGE BUILDING -ASPHALT PAVING AREA

PROJECT NO.		
33007		
DISCIPLINE		
CIVIL		
SHEET NAME		
SALT		
SHEET OF		
15 15		