

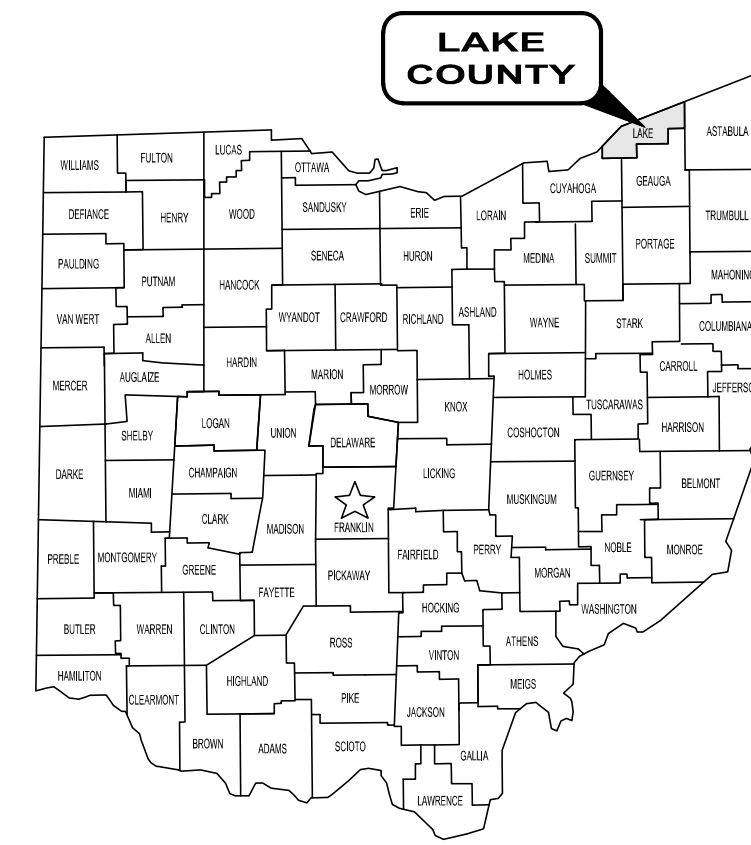
# VILLAGE OF MADISON

# MIDDLE RIDGE ROAD

# SIDEWALK IMPROVEMENTS

## LAKE COUNTY, OHIO

## AUGUST 2024



BENCH MARKS (NAVD 1988)		
NO.	DESCRIPTION	ELEV
BM1	POINT NO. 120: BENCH MARK FOUND. LARGE STANDARD NAIL IN NORTHERLY SIDE OF UTILITY POLE, EASTERLY OF HOUSE NO. 6458. NORTHING: 776378.58275    EASTING: 2362082.48926	694.482
BM2	POINT NO. 121: BENCH MARK FOUND. STANDARD NAIL IN NORTHERLY SIDE OF UTILITY POLE, SOUTHWEST OF INTERSECTION OF MIDDLE RIDGE ROAD AND W. MALLARD DRIVE. EL. 689.955 NORTHING: 776323.80534    EASTING: 2360599.55385	689.955
BM3	POINT NO. 122: HUB AND TACK SET AT BRUSH NEAR STREAM. NORTHING: 776370.08773    EASTING: 2360041.68024	681.229
BM4	POINT NO. 125: HUB AND TACK SET. NORTHING: 776379.48388    EASTING: 2360151.55875	681.159
BM5	POINT NO. 126: BENCH MARK FOUND. LARGE STANDARD NAIL FOUND IN SIDE OF FIRST UTILITY POLE EAST OF DITCH ON THE NORTH SIDE OF MIDDLE RIDGE ROAD AT ABOUT HOUSE NO. 6596. NORTHING: 776680.10946    EASTING: 2363399.06571	684.090

SOURCE OF TOPOGRAPHY: TOPOGRAPHIC SURVEY WAS PERFORMED BY CT CONSULTANTS, APRIL 2024, FOR VILLAGE OF MADISON, LAKE COUNTY, OHIO.

**OUPS DESIGN SERIAL NUMBERS:**  
B729100882; B729100884, A803201835-00A

**OUPS UTILITY LIST:**

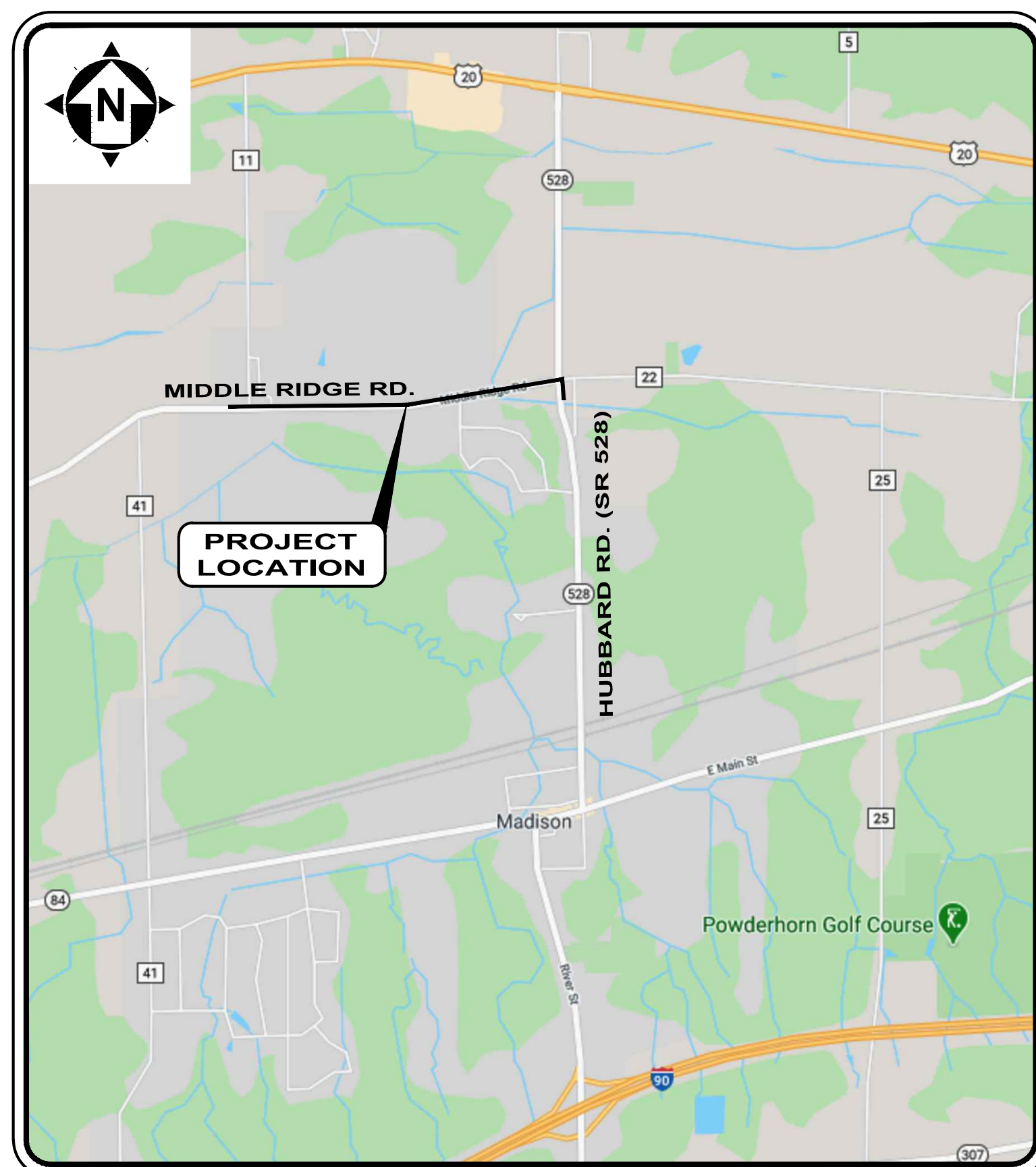
1. WATER - MADISON VILLAGE
2. GAS - DOMINION ENERGY OHIO
3. PHONE - AT&T
4. SEWER - CITY OF EASTLAKE
5. ELECTRIC - ILLUMINATING CO.
6. CABLE - CHARTER COMMUNICATIONS
7. CABLE - WINDSTREAM COMMUNICATIONS



1. UNDERGROUND BUILDING SERVICE UTILITY LINES MAY NOT BE 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.
3. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THEIR EFFORTS WITH THE LISTED OUPS ONE CALL UTILITIES AS WELL AS ANY ENCOUNTERED UTILITIES THAT MAY BE UNLISTED.

**DESIGN DESIGNATION DATA (MIDDLE RIDGE RD):**

CURRENT ADT (2018):	3133
DESIGN YEAR ADT (2038):	4386
DESIGN HOURLY VOLUME (2038):	439
DIRECTIONAL DISTRIBUTION:	56%
TRUCKS (24 HOUR B&C):	5%
DESIGN SPEED:	35 MPH
LEGAL SPEED:	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	URBAN MAJOR COLLECTOR
NHS PROJECT:	NO
DESIGN EXCEPTION:	NONE



**LOCATION MAP**  
SCALE: 1" = 2000'

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**APPROVALS:**

MAYOR SAM BRITTON JR. DATE \_\_\_\_\_

VILLAGE ADMINISTRATOR DWAYNE BAILEY DATE \_\_\_\_\_

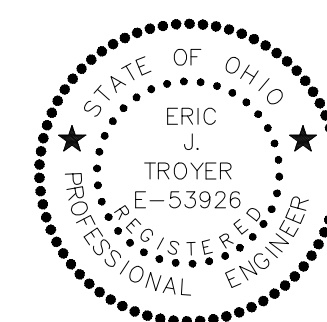
**COUNCIL MEMBERS:**

H.O. JAY ADAMS JR.                      DANIEL L. DONALDSON  
DANA DROWN                              MARK V. VEST  
ROBERT F. LEE

**ENGINEER:**

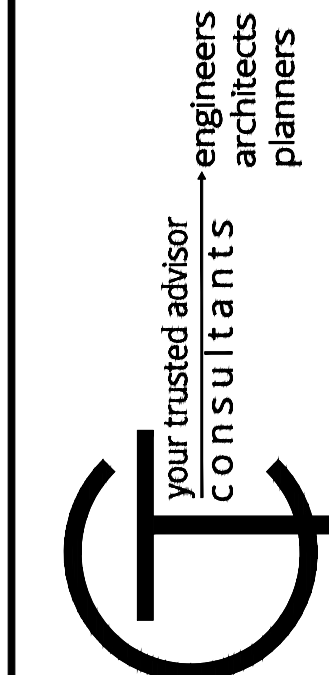


**ENGINEER'S PROJECT No. 241143**



*Eric J. Troyer*  
ERIC J. TROYER                      P.E. No. 53926                      8-13-24  
DATE

**BID SET**



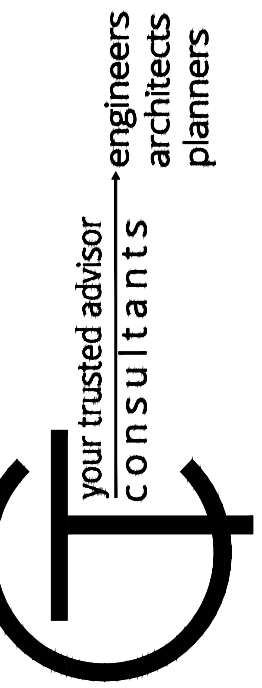
ISSUED FOR:	BID SET	NO.	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**COVER SHEET**

PROJECT NO.	<b>241143</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>COVR-SHT</b>
SHEET	OF
<b>1</b>	<b>25</b>

**BID SET**

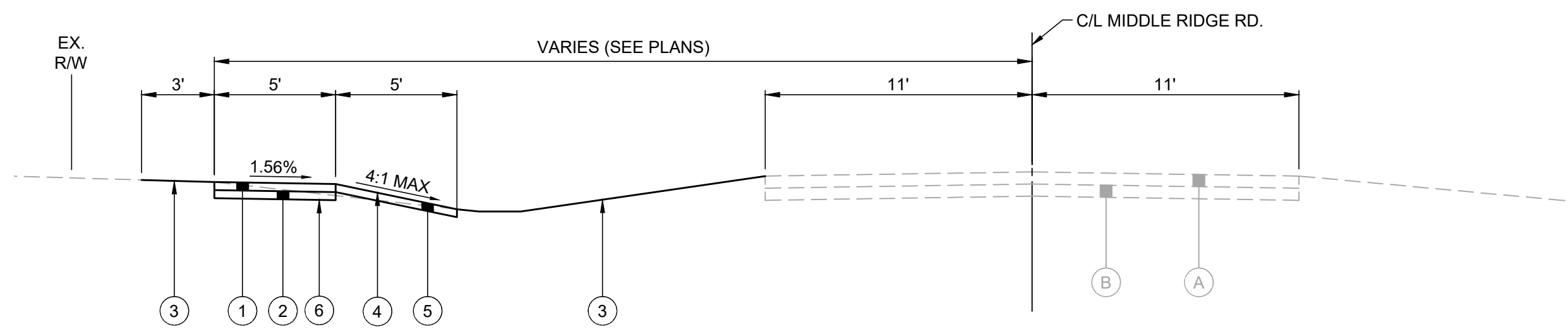


ISSUED FOR:	BID SET	NO.	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

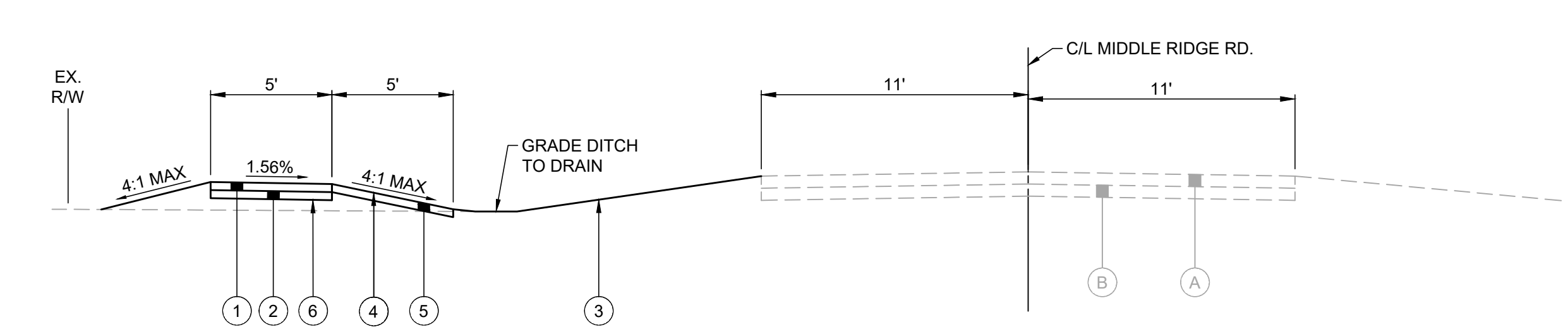
**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**TYPICAL SECTIONS**

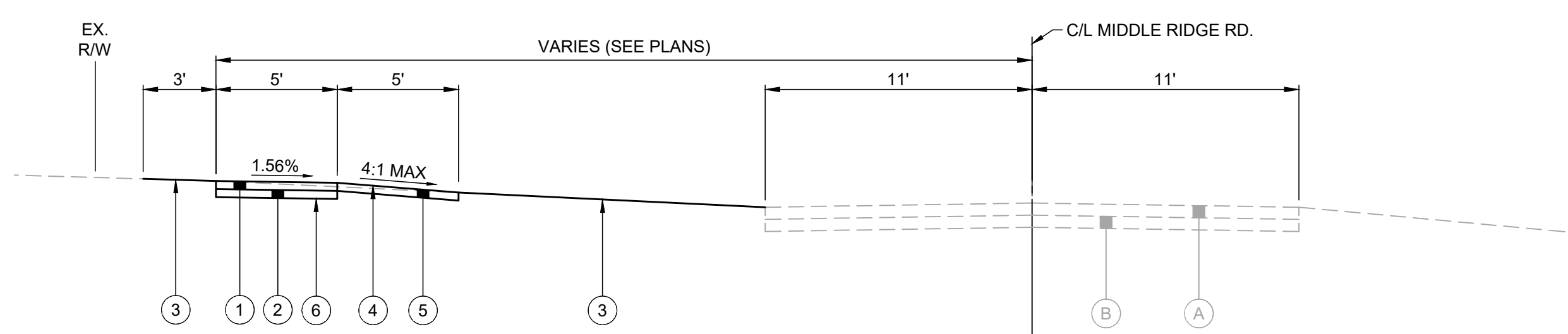
PROJECT NO.	<b>241143</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>TYP-SECT</b>
SHEET	OF
<b>2</b>	<b>25</b>



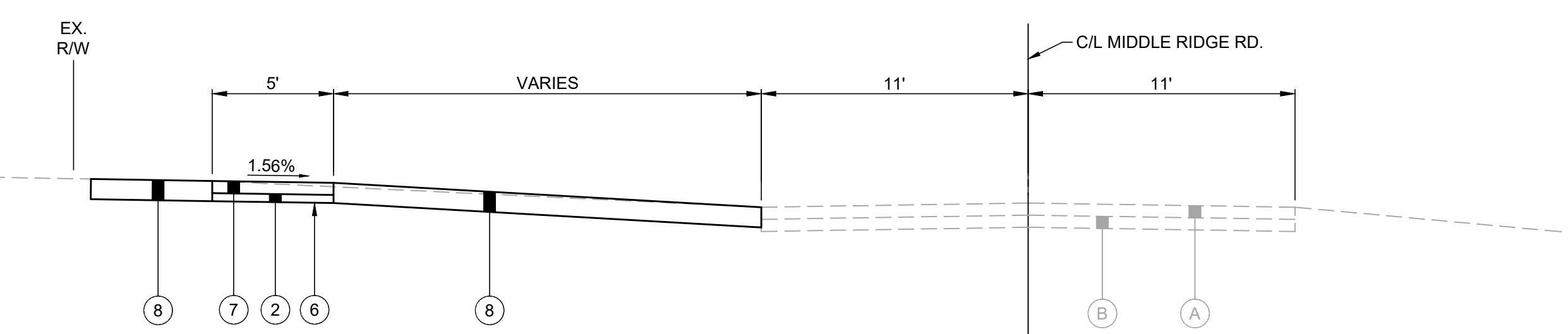
**MIDDLE RIDGE RD.**  
SCALE: 1" = 5'  
SECTION APPLIES:  
STA. 0+00 TO STA. 4+60  
STA. 12+50 TO STA. 17+50  
STA. 23+50 TO STA. 27+75  
STA. 32+00 TO STA. 33+00  
STA. 34+25 TO STA. 36+00  
STA. 42+75 TO STA. 46+00



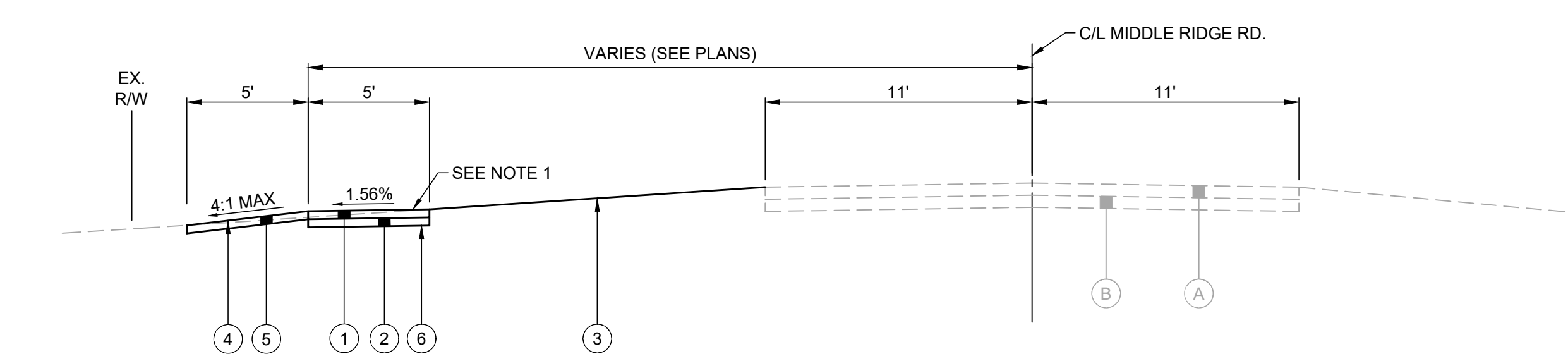
**MIDDLE RIDGE RD.**  
SCALE: 1" = 5'  
SECTION APPLIES:  
STA. 5+29 TO STA. 6+60  
STA. 7+28 TO STA. 7+73  
STA. 38+53 TO STA. 39+20  
STA. 40+76 TO STA. 41+16



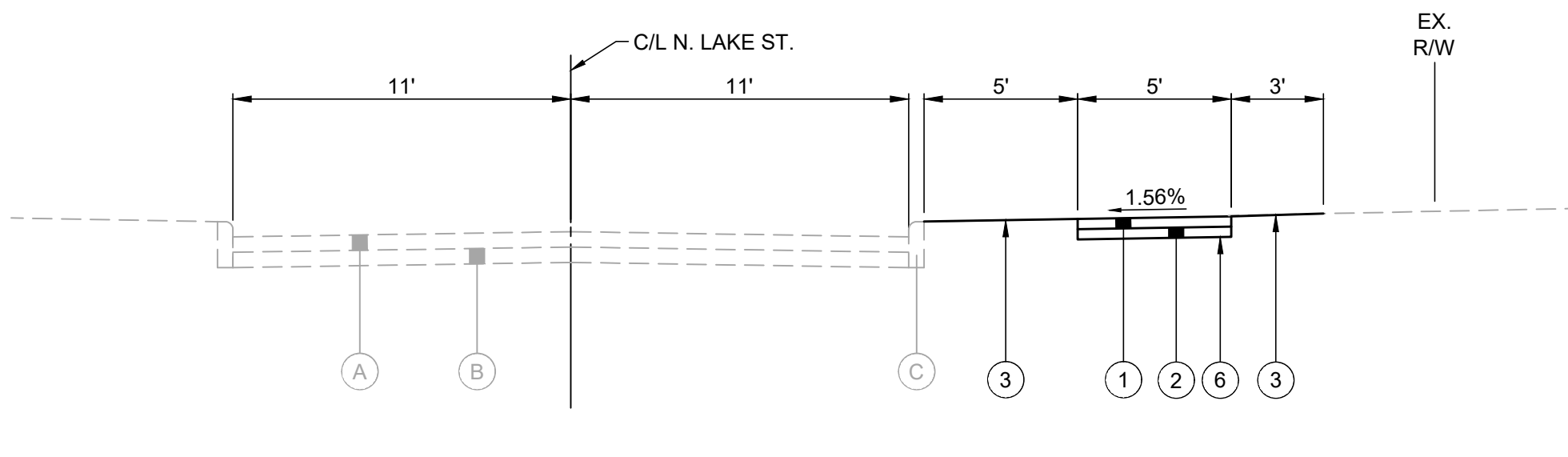
**MIDDLE RIDGE RD.**  
SCALE: 1" = 5'  
SECTION APPLIES:  
STA. 46+00 TO STA. 49+61



**DRIVEWAY PROFILES**  
SCALE: 1" = 5'



**MIDDLE RIDGE RD.**  
SCALE: 1" = 5'  
SECTION APPLIES:  
STA. 4+60 TO STA. 5+29  
STA. 17+50 TO STA. 23+50  
STA. 27+25 TO STA. 32+00  
STA. 33+00 TO STA. 34+25  
STA. 36+00 TO STA. 38+53  
STA. 41+16 TO STA. 42+75



**NORTH LAKE STREET  
(S.R. 528)**  
SCALE: 1" = 5'  
SECTION APPLIES:  
STA. 4+60 TO STA. 5+29

- EXISTING LEGEND:**
- (A) EXISTING ASPHALT (T = 6" +/-)
  - (B) EXISTING AGGREGATE (T = 6" +/-)
  - (C) EXISTING CONCRETE CURB

- PROPOSED LEGEND:**
- (1) ITEM 608 4" CONCRETE WALK
  - (2) ITEM 304 4" - AGGREGATE BASE
  - (3) ITEM 659 SEEDING AND MULCHING
  - (4) ITEM 670 SLOPE EROSION PROTECTION
  - (5) ITEM 653 TOPSOIL FURNISHED AND PLACED (T=4")
  - (6) ITEM 204 SUBGRADE COMPACTION
  - (7) ITEM 608 6" CONCRETE WALK
  - (8) SEE DRIVEWAY DETAILS FOR PAVEMENT BUILDUP

**NOTES:**  
1. SUPERELEVATION TRANSITION OF SIDEWALK FROM A 1.56% SLOPE LEFT TO A 1.56% SLOPE RIGHT AND VICE VERSA SHALL TAKE PLACE OVER A 25 FOOT LENGTH.



**GENERAL NOTES:**

- 1. ANY REVISIONS TO THE ACCEPTED CONSTRUCTION DOCUMENTS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION IN THE FIELD.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKEOUT/LAYOUT AND SHALL NOTIFY THE ENGINEER, IN WRITING, OF ANY DISCREPANCIES.
3. NO WORK SHALL COMMENCE WITHOUT AN EXECUTED NOTICE TO PROCEED.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH OSHA SAFETY REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL VISITORS, EMPLOYEES AND WORKERS ON THE CONSTRUCTION SITE.
5. THE CONTRACTOR SHALL CONSTRUCT THIS PROJECT IN COMPLIANCE WITH FEDERAL, STATE AND LOCAL BUILDING CODES.
6. ALL EXCAVATIONS ARE TO BE SECURED AND PROTECTED AT ALL TIMES.
7. ALL POLLUTANTS OTHER THAN SEDIMENT THAT OCCUR ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND LEGALLY DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORM OR SURFACE WATERS. POLLUTANTS OF CONCERN INCLUDE, BUT ARE NOT LIMITED TO, FUELS, LUBRICANTS, SOLVENTS, CONCRETE BI-PRODUCTS AND CONSTRUCTION MATERIALS.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SECURITY OF ALL STORED MATERIALS.
9. AS BUILT RECORDS - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SET OF PROJECT RECORD DOCUMENTS. THESE DOCUMENTS SHALL INCLUDE REVIEWED SHOP DRAWINGS, CHANGE ORDERS, EQUIPMENT OPERATING INSTRUCTIONS, FIELD TEST RECORDS, AND AS BUILT DRAWINGS. THE AS BUILT DRAWINGS SHALL BE MARKED LEGIBLY IN RED WITH THE ACTUAL LOCATION OF EQUIPMENT AND CONDUITS FOUND AND AS CONSTRUCTED. ALL EQUIPMENT AND UNDERGROUND CONDUITS INSTALLED SHALL HAVE LOCATIONS MARKED IN DISTANCE OFF A LANDMARK AT LEAST EVERY 25 FEET AND AS NECESSARY AT BENDS FOR LOCATION OF A LATER DATE. FINAL DOCUMENTS AND PLANS SHALL BE DELIVERED TO THE OWNER.

**STANDARD SPECIFICATIONS:**

- 1. THE "CONSTRUCTION AND MATERIAL SPECIFICATIONS" OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT), LATEST EDITION; THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) SPECIFICATIONS, LATEST EDITION; AMERICAN WATER WORKS ASSOCIATE (AWWA) SPECIFICATIONS, LATEST EDITION; AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) SPECIFICATIONS, LATEST EDITION; AND THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) SPECIFICATIONS, LATEST EDITION SHALL GOVERN ALL WORK AND MATERIALS WHICH ARE NOT SPECIFIED OR MODIFIED HEREIN OR ON THE PROJECT CONTRACT DOCUMENTS. LAKE COUNTY SPECIFICATIONS SHALL GOVERN FOR ALL WATERLINE WORK.
2. DEVIATIONS FROM THESE STANDARDS AND SPECIFICATIONS ARE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.
3. SLAG PRODUCTS OR RECYCLED PORTLAND CEMENT CONCRETE (RPCC) PRODUCTS ARE PROHIBITED FOR USE AS BEDDING, BACKFILL, FILL, BASE MATERIALS, AND AGGREGATES.

**UNDERGROUND UTILITIES:**

- 1. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. NEITHER THE OWNER NOR THE ENGINEER ENSURES THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL PUBLIC AND PRIVATE UTILITIES WHICH MAY BE AFFECTED BY THE CONSTRUCTION. THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE, ARE SHOWN ON THE DRAWINGS FROM DATA AVAILABLE AT THE TIMES OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE EXACT LOCATION AND PROTECTION OF UTILITIES AND STRUCTURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF THE UTILITY OR STRUCTURE AND ITS EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE UTILITY OWNER.
2. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST THREE DAYS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO CONSTRUCTION TO HAVE UTILITIES STAKED, MARKED OR OTHERWISE DESIGNATED IN THE CONSTRUCTION AREA. LOCATING SHALL BE COORDINATED TO STAY 48 HOURS AHEAD OF THE PLANNED CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY REQUIRED OSHA STANDARDS PERTAINING TO CRANE OR BACKHOE OPERATIONS NEARBY ENERGIZED PRIMARY CONDUCTORS AND EMPLOY THE NECESSARY METHODS IN A MANNER CONSISTENT WITH OSHA REQUIREMENTS. TEMPORARY RELOCATION OF ELECTRICAL UTILITIES, INCLUDING RESTRAINT POLES, RELOCATION OF POLES AND RUBBER COVERING OF ENERGIZED CONDUCTORS MAY BE REQUIRED. THE COORDINATION AND COST OF THESE SERVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY RESTRAIN POLES IF THE METHOD OF SUPPORT HAS BEEN SUBMITTED TO AND APPROVED BY THE UTILITY OWNER.
4. THE CONTRACTOR SHALL EXPECT, AND INCLUDE IN THEIR BID, A MINIMUM OF ONE (1) STORM DRAIN CONNECTION, WATER SERVICE, GAS SERVICE, AND SANITARY LATERAL PER HOUSE, OR PARCEL, EXISTING ALONG THE CONSTRUCTION ALIGNMENT. THESE EXISTING CONNECTIONS AND SERVICES ARE TO BE MAINTAINED THROUGHOUT THE PROJECT, AS PRACTICABLE. WHEN NOT PRACTICABLE, THE CONTRACTOR SHALL REPAIR, RECONNECT AND/OR RESTORE THE IMPACTED CONNECTION(S) OR SERVICE(S), IN-KIND AND TO PRE-CONSTRUCTION CONDITIONS OR BETTER, AT NO COST TO THE OWNER. NO CLAIMS FOR DAMAGES WILL BE ALLOWED ON ACCOUNT OF ANY DELAY OCCASIONED THEREBY.

**MATERIAL DISPOSAL & TEMPORARY SURFACES:**

- 1. THE REMOVAL AND DISPOSAL OF ALL SURPLUS EXCAVATED MATERIAL AND CONSTRUCTION DEBRIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ULTIMATE DISPOSAL. THE DISPOSAL OF ALL CONSTRUCTION DEBRIS SHALL BE AT AN APPROVED LOCATION BY THE OWNER AND THE ENGINEER. THE DISPOSAL OF ALL "CLEAN" WASTE MATERIAL SHALL BE AT APPROVED LANDFILLS, AND/OR OTHER SITES APPROVED BY THE OWNER AND ENGINEER. THE DISPOSAL OF EXISTING PIPELINE AND TANK SEDIMENTS AND WASTEWATER SLUDGE SHALL BE AT AN APPROVED LOCATION. THE CONTRACTOR SHALL OBTAIN ALL APPROVALS, PERMITS, LICENSES, ETC. FROM LOCAL, STATE AND FEDERAL AGENCIES AND/OR PRIVATE LANDOWNERS. THE CONTRACTOR SHALL FURNISH THE ENGINEER A COPY OF ALL APPROVALS OR WRITTEN PERMISSION PRIOR TO DISPOSING OF ANY WASTE AT SAID SITE.
2. THE COST OF HEREIN DESCRIBED WORK, INCLUDING SEEDING AND MULCHING NECESSARY TO SECURE THESE RESULTS, SHALL BE CONSIDERED INCIDENTAL TO THE OTHER VARIOUS ITEMS OF WORK IN THIS CONTRACT AND INCLUDED IN THE RESPECTIVE PAY ITEMS. NO SEPARATE PAYMENT SHALL BE MADE.
3. TEMPORARY SURFACES WHERE EXCAVATION ARE LOCATED IN STREETS, DRIVES AND PARKING AREAS SHALL BE FURNISHED AND PLACED BY THE CONTRACTOR AND SHALL BE FULLY MAINTAINED TO MINIMIZE INCONVENIENCE TO THE PUBLIC AT NO ADDITIONAL COST TO THE OWNER.
4. THE ABOVE DESCRIBED WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF ALL WORK AND INCLUDED IN THE RESPECTIVE PAY ITEMS AND SHALL NOT BE A SEPARATE PAY ITEM.
5. DUMP SITES MUST BE APPROVED BY THE OWNER.

**MONUMENTS, PROPERTY CORNERS, & BENCHMARKS:**

- 1. MONUMENTS, PROPERTY CORNER MARKERS AND BENCHMARKS SHALL NOT BE DISTURBED BY THE CONTRACTOR. IN THE EVENT THAT IT IS NECESSARY TO REMOVE MONUMENTS, PROPERTY CORNER MARKERS OR BENCHMARKS FOR THE CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL HAVE A REGISTERED LAND SURVEYOR PROPERLY REFERENCE THE POINTS AND SHALL HAVE SAME RESET AFTER THE CONSTRUCTION HAS PASSED THE AREA, AT NO ADDITIONAL COST TO THE OWNER.

**EXISTING UTILITIES:**

- 1. THE LOCATIONS OF THE UNDERGROUND UTILITIES ARE PLOTTED ACCORDING TO THE INFORMATION FURNISHED BY THE UTILITIES CONCERNED AND THE OWNER DOES NOT GUARANTEE THE ACCURACY THEREOF. CONTRACTOR TO CALL OUPS (1-800-362-2764) 48 HOURS BEFORE YOU DIG AND CALL OIL & GAS PRODUCERS PROTECTIVE (1-800-925-0988). CONTRACTOR ALSO TO COORDINATE HIS WORK WITH THE UTILITIES LISTED ON THIS SHEET.
2. 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 OWNER INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS. CABLE RELOCATION AND SUPPORT COST SHALL BE INCLUDED IN OTHER BID ITEMS.
3. 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 FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT BE THE RESPONSIBILITY OF THE OWNER.
4. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL THE EXISTING UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF ANY PROPOSED IMPROVEMENT INDICATED ON THE PLANS. SHOULD A CONFLICT EXIST AT A UTILITY CROSSING, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY.

**THE UTILITY OWNERSHIPS ARE AS FOLLOWS:**

LAKE COUNTY UTILITIES ATTN: DENIS YURKOVICH, P.E. 105 MAIN STREET PAINESVILLE, OHIO 44077 (440) 350-5775
DOMINION EAST OHIO ATTN: KEVIN BIRT ATTN: 2ND FLOOR RELOCATION DESIGN 320 SPRINGSIDE DRIVE, STE. 320 AKRON, OH 44333 330-664-2409 (TEL) 888-504-0126 (FAX) relocation@dominionenergy.com
VILLAGE OF MADISON ATTN: ERIC HAIBACH (440) 428-7526. MADISON, OHIO 44057
ILLUMINATING COMPANY ATTN: JOHN ZASSICK 6896 MILLER ROAD BRECKSVILLE, OH 44141 PHONE: 440-546-8706 jimzassick@firstenergycorp.com
WINDSTREAM COMMUNICATIONS ATTN: JASON SAXON 205 SOUTH HAMBDEN STREET CHARLTON, OH 44024-1228 PHONE: (440) 285-5528 FAX: (440) 285-5468 jason.saxon@windstream.com locate.desk@windstream.com
CHARTER COMMUNICATIONS ATTN: JASON SPRAGUE 3315 N. RIDGE RD., E., SUITE 100 ASHTABULA, OHIO 44004 PHONE: (440) 261-4607 CELL: (440) 361-0024 jason.sprague@charter.com

**PROTECTION OF EXISTING UTILITIES & PIPES:**

- 1. SHOULD IT BE NECESSARY TO CHANGE THE POSITION OR TEMPORARILY REMOVE ANY STORM DRAIN, SANITARY SEWER, ELECTRIC CONDUITS, WATER PIPES, GAS PIPES, PROCESS OR OTHER PIPES OR WIRES IN ORDER TO PERMIT THE CONTRACTOR TO USE A PARTICULAR METHOD OF CONSTRUCTION OR IN ORDER TO CLEAR THE STRUCTURES BEING BUILT, THE CONTRACTOR SHALL COORDINATE WITH, UNTIL SATISFACTORY ARRANGEMENTS HAVE BEEN MADE BY THE OWNERS OF SAID PIPES OR WIRES TO PROPERLY CARE FOR THE SAME. NO CLAIMS FOR DAMAGES WILL BE ALLOWED ON ACCOUNT OF ANY DELAY OCCASIONED THEREBY. THE ENTIRE COST OF THE RELOCATION OR TEMPORARY REMOVAL MUST BE INCLUDED IN THE PRICES STIPULATED FOR THE VARIOUS ITEMS OF WORK TO BE DONE UNDER THIS CONTRACT.
2. NO SURFACE, GROUND OR TRENCH WATER SHALL BE ALLOWED TO FLOW INTO EXISTING OR NEW SANITARY SEWERS.
3. CONTRACTOR SHALL MAINTAIN FLOWS THROUGH EXISTING SYSTEMS AS PRACTICAL. WHERE WORK IS PARTIALLY COMPLETE NECESSITATING TRENCH ABANDONMENT IN THE EVENT OF STORM, CONTRACTOR SHALL STABILIZE EXCAVATION AND PROTECT THE UNFINISHED WORK. CONTRACTOR SHALL SUBMIT SUCH A PLAN FOR ENGINEER REVIEW.
4. CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF ALL FENCES, RETAINING WALLS, STEPS, UTILITY POLES, MONUMENTS, UTILITY APPURTENANCES, SIGNAGE AND LANDSCAPE BEDS. IF DAMAGED, THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT OF THESE ITEMS AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR IS EXPECTED TO ANTICIPATE WATER MAIN AND/OR WATER SERVICE BREAKS BY HAVING LAKE COUNTY DEPARTMENT OF UTILITIES (LCDU) APPROVED WATER MATERIALS INCLUDING, BUT NOT LIMITED TO, REPAIR BANDS, ONSITE AND AVAILABLE IN ORDER TO MINIMIZE ANY UNFORESEEN SERVICE DISRUPTIONS. THESE COSTS FOR TIME, MATERIALS, AND ANY AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL PAYMENTS OR ALLOWANCES WILL BE GIVEN. ALL EFFORTS WITH WATER MAIN AND/OR WATER SERVICE WORK SHALL BE COORDINATED DIRECTLY WITH LCDU.
6. SOME LOCATIONS OF THIS PROJECT INVOLVE DEEP EXCAVATION IN AREAS CONFINED BY UTILITIES, TRAVELED SURFACES, PRIVATE PROPERTY, ETC. THE CONTRACTOR SHALL INCLUDE IN HIS BID, ALL MEANS AND METHODS NECESSARY TO SUCCESSFULLY ACCOMPLISH THIS WORK. THIS MAY INCLUDE ENHANCED OPEN CUT METHODS SUCH AS SLIDE RAIL SYSTEMS OR SHEETING, OR IT MAY INCLUDE TRENCHLESS METHODS, OR OTHERS. THE CONTRACTOR SHALL PROVIDE ALL MEANS, METHODS, EQUIPMENT AND MANPOWER TO FULLY PROTECT UTILITIES, TRAVELED SURFACES, PRIVATE PROPERTY, ETC.

**RESTORATION:**

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF TREES OR SHRUBS TO BE REMOVED AS CALLED OUT PER PLAN.
2. CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS CAUSED FROM CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS OR BETTER OR AS PER PLAN. FOR DISTURBED LAWN AREAS, THE CONTRACTOR SHALL INSTALL COMPACTED, SCREENED, IMPORTED TOPSOIL TO PROVIDE A SMOOTH TRANSITION FROM NEW OR EXISTING CURB OR SIDEWALK SURFACES TO THE NON-PAVED SURFACE, AS SPECIFIED. CONTRACTOR SHALL GRADE ANY LOW SPOTS SO THAT THEY WILL HAVE POSITIVE DRAINAGE.
3. ITEM 659 SEEDING AND MULCHING, AS PER PLAN: THE COMPOSITION OF SEED MIXTURE SHALL CONFORM TO THE PROJECT SPECIFICATIONS FOR SEEDING. COMMERCIAL FERTILIZER, LIME, AND WATER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 659 SEEDING AND MULCHING, AS PER PLAN.
4. RESIDENTIAL DRIVEWAYS SHALL UTILIZE THE APPLICABLE REPLACEMENT TYPE DETAIL. THE PUBLIC ROADWAY SHALL UTILIZE THE ASPHALT ROAD REPLACEMENT DETAIL. IN AREAS WHERE THE PUBLIC ROADWAY IS A CONCRETE PAVEMENT SECTION, TYPE A PAVEMENT REPLACEMENT DETAIL SHALL BE UTILIZED.
5. SIDEWALKS WILL BE 608 CONCRETE AND, WHERE REQUIRED, SHALL BE 5 FEET WIDE, 25 SQUARE FOOT BLOCKS. SIDEWALKS WILL BE 4-INCHES THICK EXCEPT WHERE CROSSING DRIVEWAYS OR DRIVEWAY APRONS WHEREIN THEY WILL BE 6-INCHES THICK IN RESIDENTIAL DRIVES AND 8-INCHES THICK IN NON-RESIDENTIAL DRIVES. HANDICAP RAMPS SHALL BE INSTALLED AT ALL INTERSECTIONS OR STREET CROSSINGS, AS PER STANDARD ODOT AND ADA-COMPLIANT DETAILS. IF THERE ARE NO EXISTING CURBS, THEN THE FLARES OF THE CURB RAMPS SHALL BE NON-PERFORMED.
6. DRIVEWAY APRONS SHALL BE OF ODOT 452 CONCRETE MATERIAL AND SHALL BE 6-INCHES THICK FOR RESIDENTIAL APRONS AND 8-INCHES THICK FOR NON-RESIDENTIAL APRONS. CURB CUTS MUST BE PERFORMED USING HORIZONTAL CONCRETE SAW EQUIPMENT. A 3-FOOT FLAIR ON EACH SIDE OF DRIVEWAY SHALL BE PROVIDED.

**CLEARING & GRUBBING:**

- 1. THE CONTRACTOR SHALL COMPLY WITH OHIO DIVISION OF WILDLIFE (ODNR) AND U.S. FISH AND FISH AND WILDLIFE SERVICE (USFWS) REQUIREMENTS REGARDING CLEARING, INCLUDING THE LIMITATIONS ON TREE CLEARING BETWEEN APRIL 1ST AND SEPTEMBER 31ST. AT THE CONTRACTOR'S EXPENSE, THE CONTRACTOR MAY SEEK ODNR/USFWS APPROVAL FOR SUMMER CLEARING BY CONDUCTING SURVEYS, ETC. THE OWNER AND THE ENGINEER SHALL BE PROVIDED A COPY OF SUCH APPROVAL BEFORE ANY SUMMER CLEARING OCCURS.
2. THE CONTRACTOR SHALL INCLUDE ALL NECESSARY PRECAUTIONS TO PROTECT AND SAVE TREES WHEREVER POSSIBLE. TREE ROOTS AND OVERHANGING BRANCHES SHALL BE CUT AND REMOVED FROM THE SITE, EXCEPT WITH SPECIAL PERMISSION OF THE ENGINEER. WHEN REQUIRED, THE CUTTING OF ROOTS AND BRANCHES SHALL BE DONE IN A MANNER TO LEAVE A SMOOTH END WITHOUT SPLITTING OR CRUSHING. THE CUT END SHALL BE NEATLY TRIMMED. ALL DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER. WHERE MISCELLANEOUS SMALL TREES AND SHRUBS ARE NOTED TO BE REMOVED AND RESET, THE COST OF SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.

**AIR POLLUTION / NOISE CONTROL PRACTICES:**

- 1. CONSTRUCTION ACTIVITIES WILL BE LIMITED TO WEEKDAY DAYTIME HOURS, UNLESS APPROVED IN ADVANCE BY THE OWNER.
2. CONSTRUCTION EQUIPMENT WILL BE PROVIDED WITH INTAKE SILENCERS AND MUFFLERS, AS REQUIRED BY SAFETY STANDARDS.
3. PERIODICALLY CHECK EQUIPMENT AND MACHINERY FOR PROPER TUNING TO MINIMIZE EXHAUST EMISSIONS AND NOISE.
4. ALL CONSTRUCTION VEHICLES SHOULD BE EQUIPPED WITH PROPER EMISSIONS CONTROL EQUIPMENT.
5. UNPAVED AREAS WILL BE WET DOWN (AS NECESSARY) DURING CONSTRUCTION TO MINIMIZE DUST GENERATION.

**PROHIBITED CONSTRUCTION ACTIVITIES:**

- 1. THE USE OF EXPLOSIVES, UNLESS A PERMIT IS ISSUED BY THE OWNER.
2. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, STREAM CORRIDORS, OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE.
3. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE, OR ANY OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
4. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
5. STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES.
6. RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER.
7. OPERATION ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 AM AND 5:00 PM OR OUTSIDE THE HOURS ALLOWED BY LOCAL ORDINANCES OR REGULATIONS.
8. CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER AND CLOSING CLEAR ACCESS.
• BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES;
• BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR
• BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.
9. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
10. LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS.
11. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
12. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM.
13. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
14. DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.
15. DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, RILLING, BUFFING, GRINDING, POLISHING, SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR COMMERCIAL, PROFESSIONAL, QUASI-PUBLIC OR PUBLIC PLACES OF HUMAN OCCUPATION.

**EROSION & SEDIMENT CONTROL:**

- 1. SEDIMENT AND EROSION CONTROL PRACTICES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AS PER ODOT ITEM 832 AND CITY ORDINANCES 906 & 913. CONTRACTOR SHALL SUBMIT A SWPPP FOR REVIEW AND ACCEPTANCE BY THE ENGINEER PRIOR TO WORK.
2. IMMEDIATELY FOLLOWING SITE AND ACCESS CLEARING, TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED. THEY WILL BE MAINTAINED IN EFFECTIVE OPERATING CONDITION DURING CONSTRUCTION UNTIL FINAL SEEDING AND SITE RESTORATION OCCURS.
3. EXISTING TOPSOIL WILL BE STOCKPILED AND REPLACED UPON FINAL GRADING.
4. EXTENSIVE AREAS OF STOCKPILED TOPSOIL ARE TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING OR COVERING SUCH AS WITH ANCHORED STRAW MULCH. SILT BARRIERS WILL BE INSTALLED DOWN GRADIENT OF THESE AREAS ON CONTOUR AND WITH THEIR ENDS UP SLOPE OF THE CONTOUR TO PREVENT SILT LADEN RUNOFF FROM ENTERING WATERWAYS OR STORM SEWERS. WITHIN 15 DAYS OF COMPLETION OF CONSTRUCTION, ANY REMAINING SOIL MUST EITHER BE REMOVED OR PERMANENTLY STABILIZED.
5. SILT FENCES SHOULD BE TRENCHED SIX TO TWELVE INCHES DEEP, THE FABRIC LAID IN THE TRENCH, AND THE SOIL PROPERLY BACKFILLED INTO THE TRENCH TO PREVENT UNDERCUTTING.
6. NO MORE THAN 200 FEET OF TRENCH SHALL BE OPEN AT ANY GIVEN TIME. TRENCH OPENING AND LAYING OF PIPE SHOULD OCCUR SO AS TO MINIMIZE THE AMOUNT OF DISTURBED AREA. ALL TRENCHES ARE TO BE BACKFILLED AND COMPACTED IMMEDIATELY AFTER PIPE INSTALLATION. IMMEDIATELY FOLLOWING THE BACKFILLING OF THE TRENCH, THE GROUND SURFACE WILL BE ROUGH GRADED TO THE EXISTING CONTOURS TO ALLOW FOR PROPER DRAINAGE, AND WILL BE SEEDDED AND/OR MULCHED IN STAGES TO PREVENT EROSION.
7. ANY DISTURBED AREA THAT WILL NOT BE ACTIVELY UNDER CONSTRUCTION FOR A PERIOD OF 15 DAYS OR MORE WILL BE TEMPORARILY STABILIZED IMMEDIATELY BY SEEDING AND MULCHING OR BY ANCHORED STRAW MULCH.
8. AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZE EACH DISTURBED AREA IN STAGES WITH PERENNIAL VEGETATION INSTALLED ACCORDING TO OHIO EPA (OR EQUIVALENT) STANDARDS AND SPECIFICATIONS. AFTER FINAL SOIL SETTLING OVER THE SANITARY SEWER, OUTFALL SEWER, AND FORCE MAIN ALIGNMENTS, THE CONTRACTOR SHALL BRING THE TRENCH BACK TO GRADE IF NECESSARY, PLACE TOPSOIL, AND FINE GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION OF THAT SECTION OF PIPE. FINAL GRADING WILL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY FOR DRAINAGE AND AESTHETIC REASONS.
9. IF WORK IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROLS IN GOOD OPERATING CONDITION DURING THE SUSPENSION OF THE WORK. ALSO, WHEN SEASONAL CONDITIONS PERMIT AND THE SUSPENSION OF WORK IS EXPECTED TO EXCEED A PERIOD OF ONE MONTH, THE CONTRACTOR SHALL SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS LEFT EXPOSED WHEN THE WORK IS STOPPED.
10. INSTALL THE ABOVE EROSION AND SEDIMENT CONTROL MEASURES, AS APPROPRIATE, REFERRING TO OHIO EPA, STORM WATER TECHNICAL ASSISTANCE, RAINWATER AND LAND DEVELOPMENT MANUAL STANDARDS AND SPECIFICATIONS (FORMERLY ODNR) OR EQUIVALENT FOR PARTICULAR TECHNIQUES. THESE MEASURES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. LINK: https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/stormwater-program

**PERMITS:**

- 1. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS NECESSARY TO CONTRACT THIS PROJECT.

BID SET

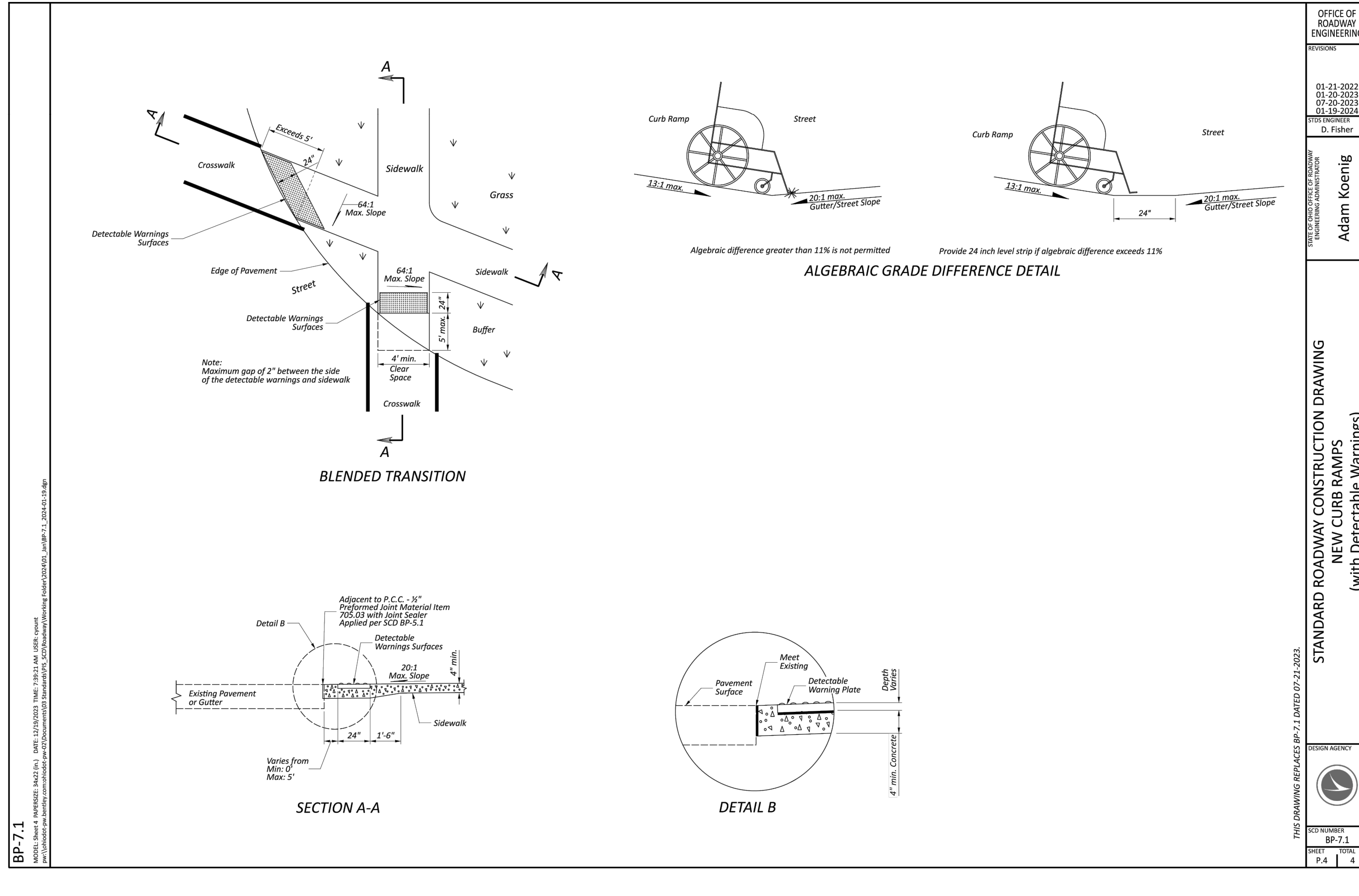
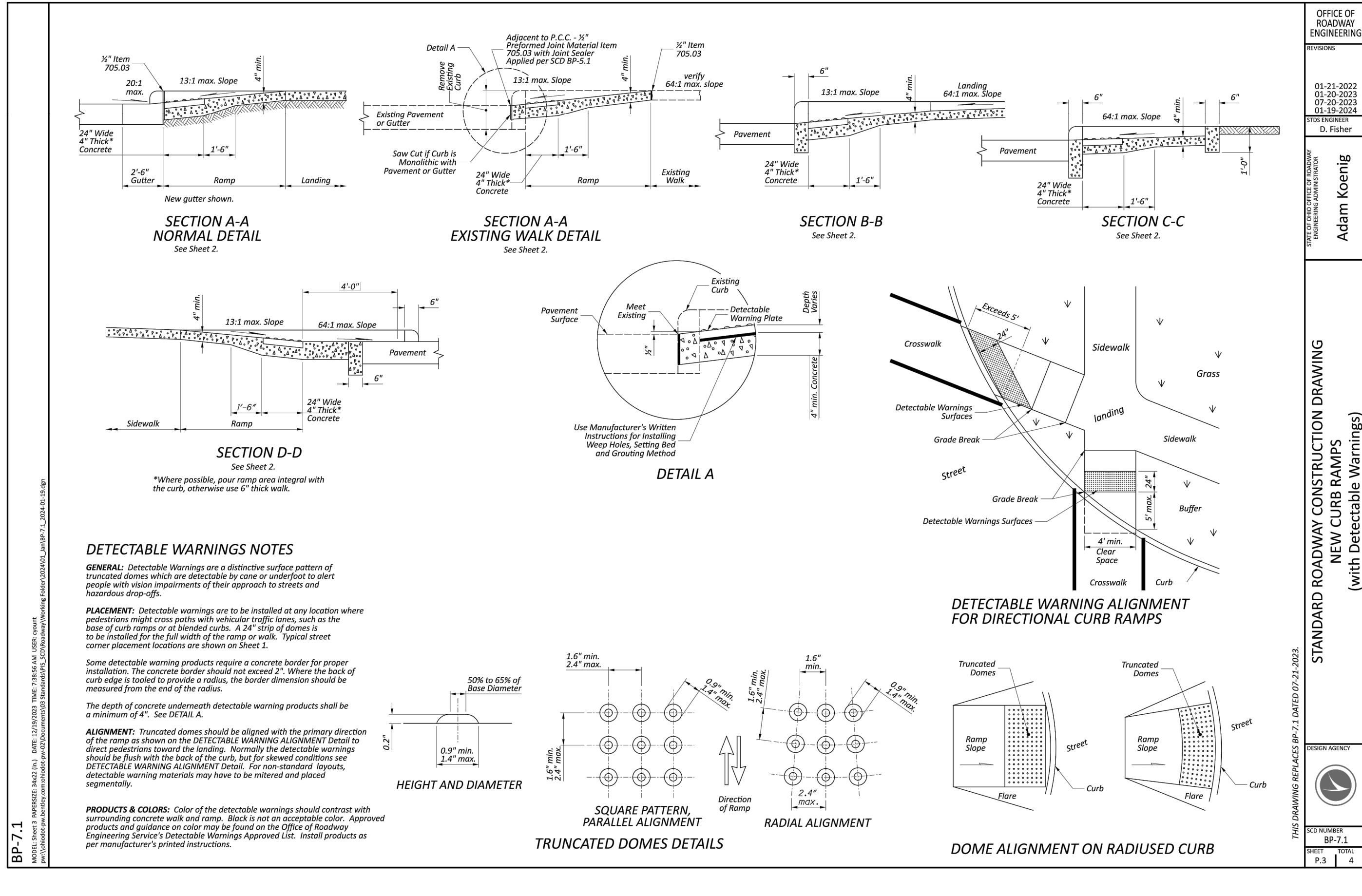
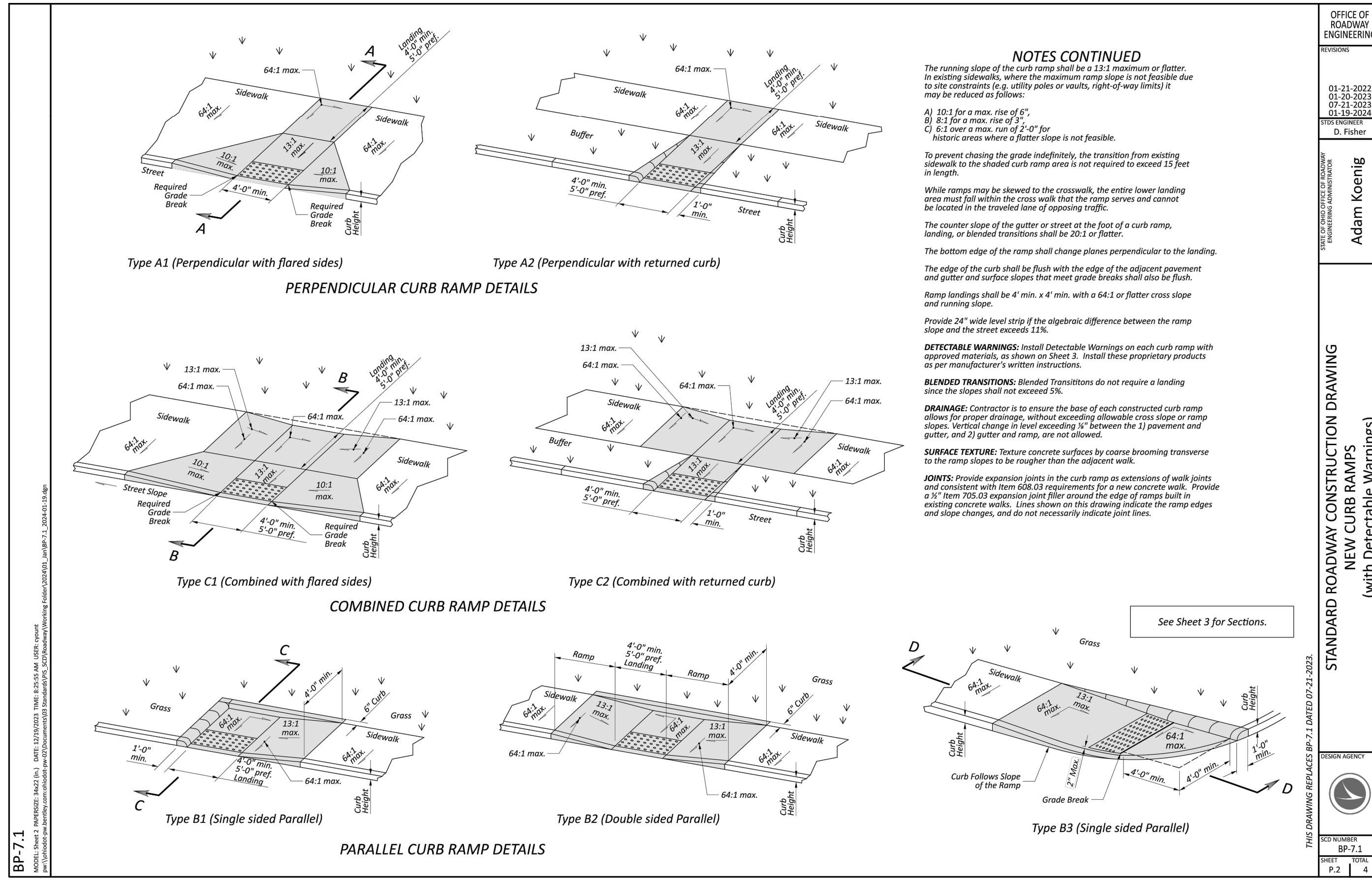
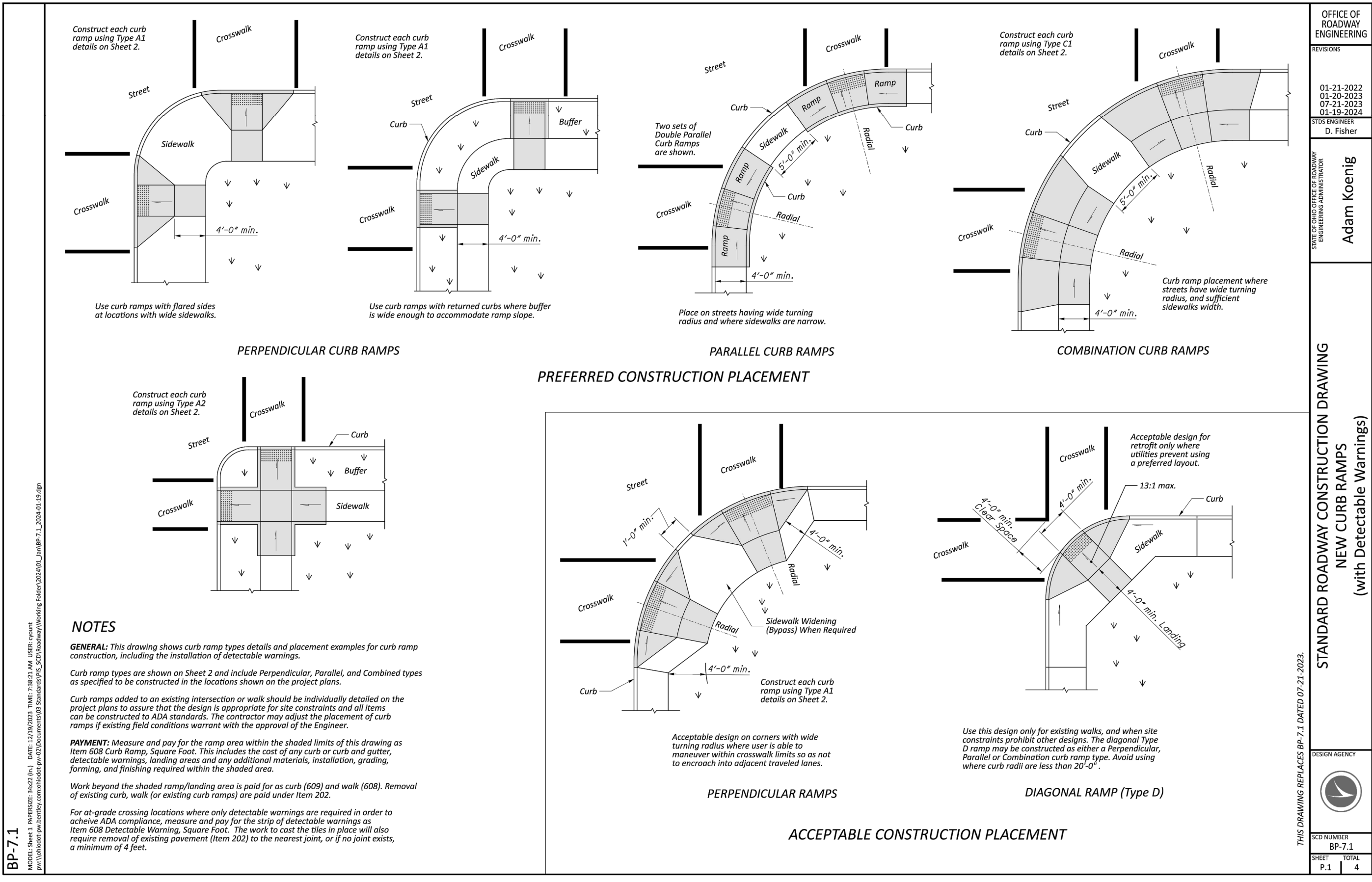
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Table with columns: DATE, REVISION, NO, BID SET, ISSUE DATE, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY.

MIDDLE RIDGE ROAD SIDEWALK IMPROVEMENTS VILLAGE OF MADISON, LAKE COUNTY, OHIO GENERAL NOTES

Table with project details: PROJECT NO. 241143, DISCIPLINE CIVIL, SHEET NAME GEN-NOTE, SHEET 3 OF 25.





BID SET

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NO.	DATE	REVISION	ISSUED FOR:	BID SET	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
			8/6/24	AS SHOWN	EJT	BKU	EH		

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**STANDARD DETAILS - 1**

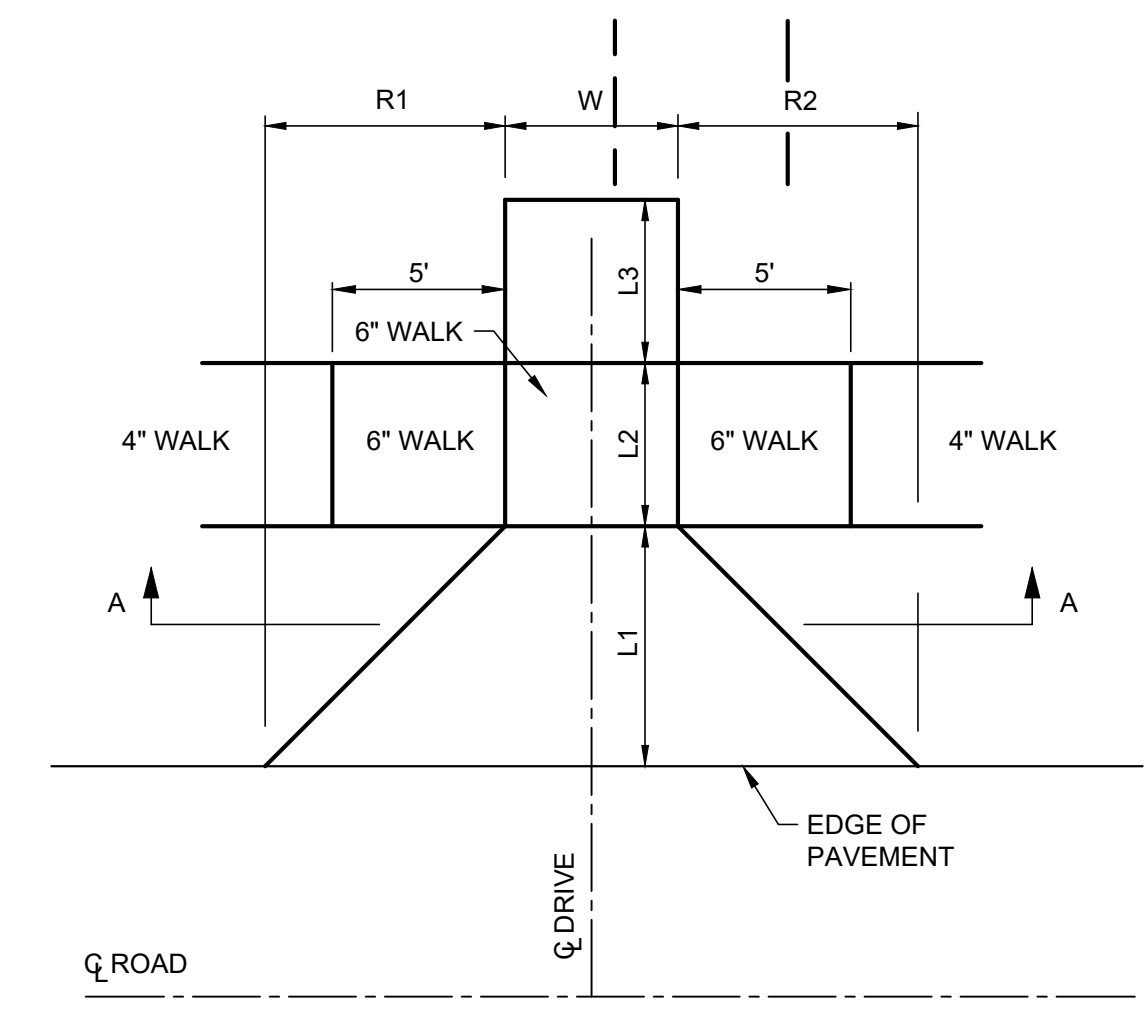
PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	STD-DET1
SHEET	4
OF	25



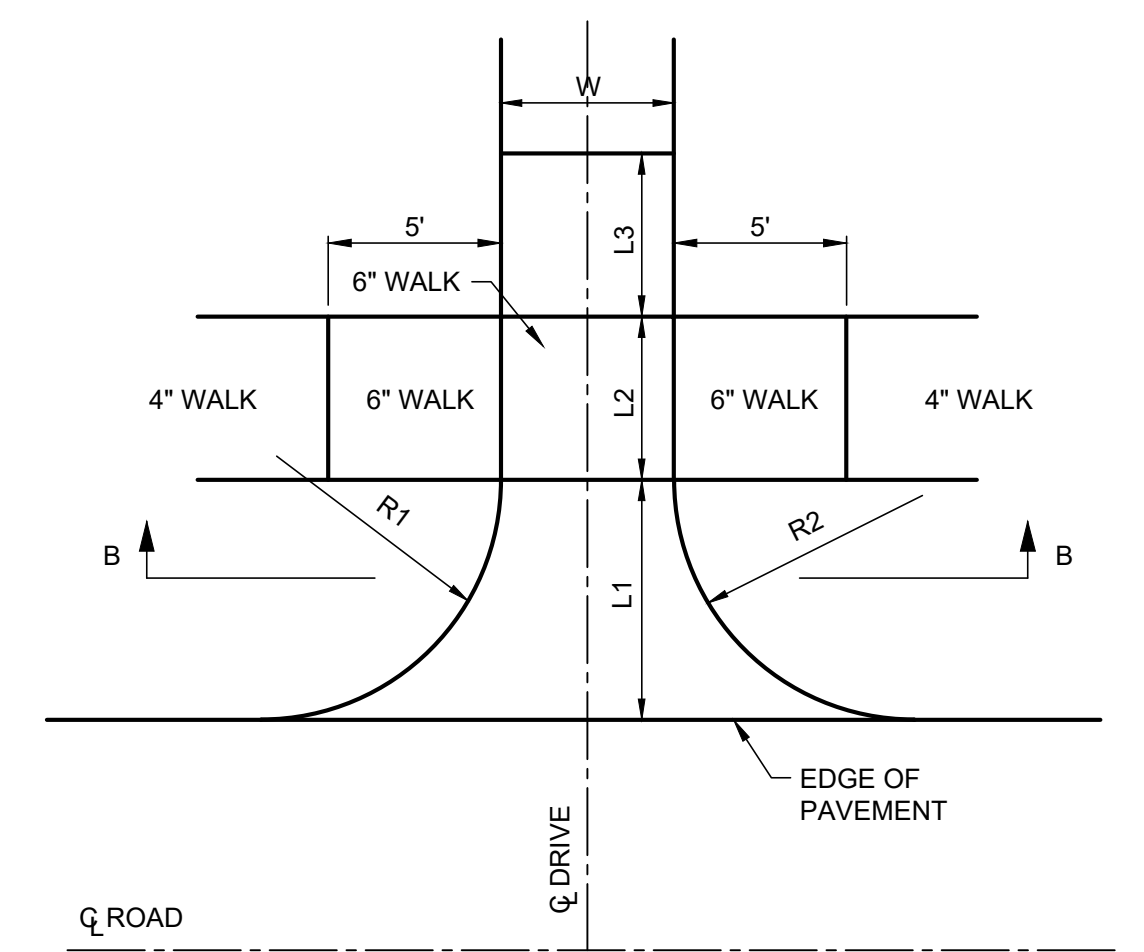
**BID SET**

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**CONSULTANTS**  
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 architects  
 planners

SHEET NO.	REFERENCE NO.	STATION	SIDE	MATERIAL	DRIVE TYPE	DRIVE ANGLE	APRON LENGTH "L1"	WALK LENGTH "L2"	DRIVEWAY LENGTH "L3"	WIDTH "W"	R1 (LEFT SIDE RADIUS OR APRON OFFSET OF DRIVE LOOKING FROM ROADWAY CL)	R2 (RIGHT SIDE RADIUS OR APRON OFFSET OF DRIVE LOOKING FROM ROADWAY CL)	SURFACE AREA	202	203	204	252	301	301	304	304	411	441	608											
														PAVEMENT REMOVED	EXCAVATION (6")	SUBGRADE COMPACTION	FULL DEPTH PAVEMENT SAWING	4" ASPHALT CONCRETE BASE, PG64-22	EDGE COURSE	6" AGGREGATE BASE	EDGE COURSE	8" STABILIZED CRUSHED AGGREGATE	2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	CONCRETE WALK, 6"											
						DEG	FT	FT	FT	FT	FT	FT	SF	SY	CY	SY	FT	CY	CY	CY	CY	CY	CY	SF											
11	DW-1	15+15	LT	GRAVEL	2 (RES)	90°	11.0	5.0	5.0	15	6.5	6.5	386.5	42.9	7.2	42.9	15					9.5		125											
12	DW-2	22+10	LT	GRAVEL	2 (COMM)	90°	9.0	5.0	5.0	17	9.0	5.0	386.0	42.9	7.1	42.9	17					9.5		135											
13	DW-3	23+50	LT	GRAVEL	2 (COMM)	90°	9.5	5.0	5.0	24	5.3	6.4	523.6	58.2	9.7	58.2	24					12.9		170											
13	DW-4	25+00	LT	GRAVEL	2 (COMM)	90°	9.6	5.0	5.0	17	6.1	5.0	386.5	42.9	7.2	42.9	17					9.5		135											
14	DW-5	27+95	LT	GRAVEL	2 (RES)	90°	8.9	5.0	5.0	21	5.7	4.7	443.2	49.2	8.2	49.2	21					10.9		155											
14	DW-6	31+65	LT	GRAVEL	2 (COMM)	90°	10.6	5.0	5.0	15	9.8	8.1	403.9	44.9	7.5	44.9	15					10.0		125											
15	DW-7	32+75	LT	GRAVEL	2 (COMM)	90°	11.3	5.0	5.0	15	11.3	15.3	469.8	52.2	8.7	52.2	15					11.6		125											
15	DW-8	34+35	LT	GRAVEL	2 (RES)	90°	11.2	5.0	5.0	12	6.5	6.4	326.6	36.3	6.0	36.3	12					8.1		110											
15	DW-9	35+20	LT	GRAVEL	2 (COMM)	90°	10.6	5.0	5.0	25	6.2	6.0	579.7	64.4	10.7	64.4	25					14.3		175											
18	DW-10	46+15	LT	ASPHALT	2 (COMM)	90°	10.6	5.0	5.0	22	6.1	6.1	517.9	57.5	9.6	57.5	22	6.4	0.1	9.6	0.3	12.8	3.2	160											
18	DW-11	46+60	LT	ASPHALT	2 (COMM)	90°	10.6	5.0	5.0	34	7.4	12.9	808.0	89.8	15.0	89.8	34	10.0	0.1	15.0	0.3	20.0	5.0	220											
18	DW-12	47+80	LT	ASPHALT	2 (COMM)	90°	10.7	5.0	5.0	15.5	5.1	7.8	389.9	43.3	7.2	43.3	15.5	4.8	0.1	7.2	0.3	9.6	2.4	127.5											
18	DW-13	48+20	LT	ASPHALT	(COMM)*	90°	8.3	5.0	5.0	22	5.2	3.9	440.4	48.9	8.2	48.9	22	5.4	0.1	8.2	0.2	10.9	2.7	160											
18	DW-14	49+10	LT	ASPHALT	(COMM)*	90°	7.6	5.0	5.0	34	3.9	3.9	628.0	69.8	11.6	69.8	34	7.8	0.1	11.6	0.2	15.5	3.9	220											
TOTALS														743.3	123.9	743.3	288.5	34.4	0.3	51.6	1.3	165.2	17.2	2142.5											
TOTALS CARRIED TO GENERAL SUMMARY														743	124	743	289	34	0.3	53	165	17	2143												

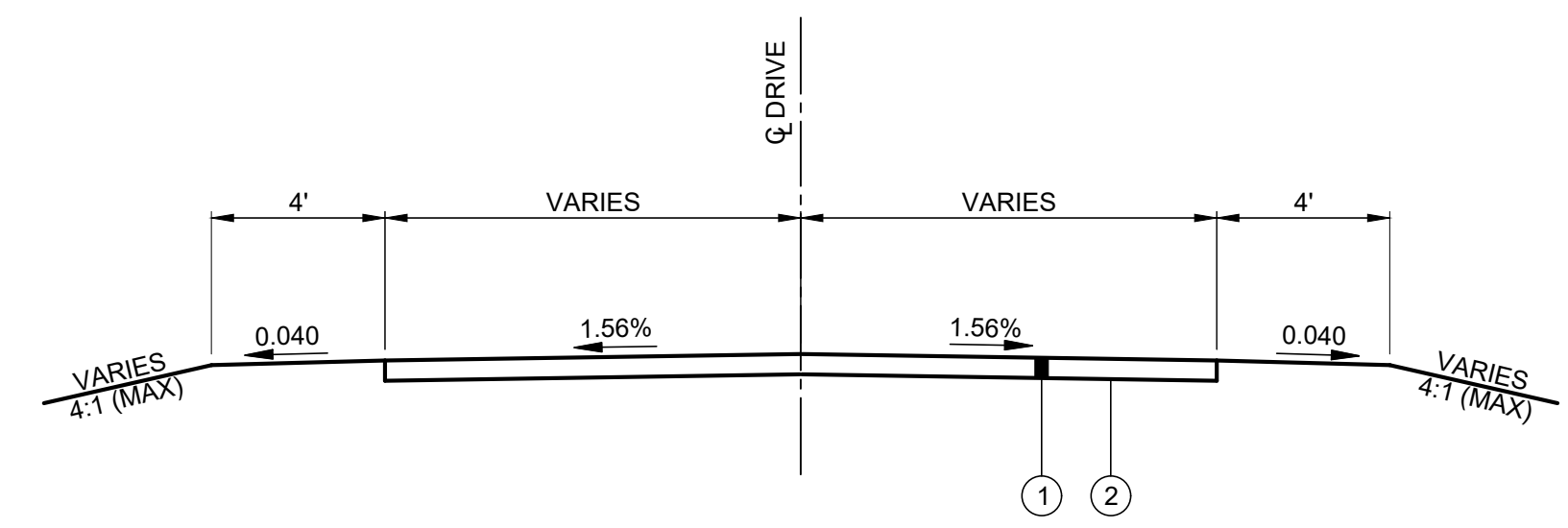


**TYPE 2 DRIVEWAY PLAN VIEW (TYP)**



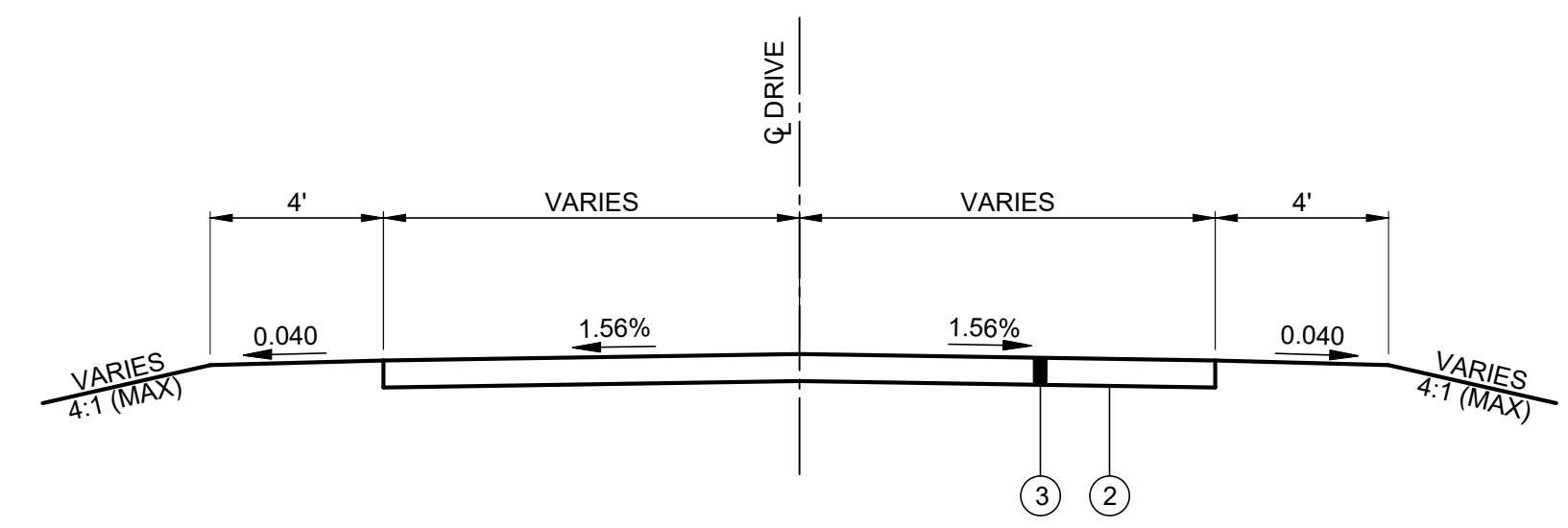
**TYPE 1 DRIVEWAY PLAN VIEW (TYP)**

\* SEE DETAIL, NEXT SHEET



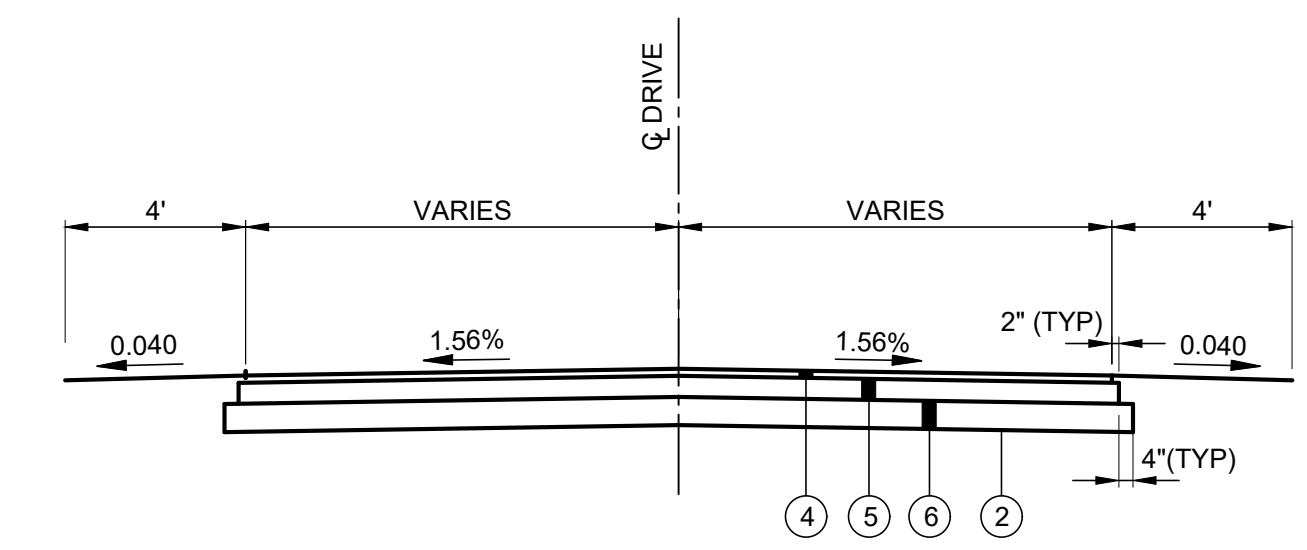
**RESIDENTIAL GRAVEL DRIVE TYPICAL SECTION**

- LEGEND:**
- ① ITEM 411 6" STABILIZED CRUSHED AGGREGATE
  - ② ITEM 204 SUBGRADE COMPACTION



**COMMERCIAL GRAVEL DRIVE TYPICAL SECTION**

- LEGEND:**
- ② ITEM 204 SUBGRADE COMPACTION
  - ③ ITEM 411 8" STABILIZED CRUSHED AGGREGATE



**COMMERCIAL ASPHALT DRIVE TYPICAL SECTION  
 DW-10, DW-11, DW-12**

- LEGEND:**
- ④ ITEM 441 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
  - ⑤ ITEM 301 4" ASPHALT CONCRETE BASE, PG64-22
  - ⑥ ITEM 304 6" AGGREGATE BASE
  - ⑦ ITEM 609 CURB, TYPE 6, AS PER PLAN
  - ⑧ ITEM 204 SUBGRADE COMPACTION

ISSUED FOR:	BID SET	DATE	REVISION	NO	DATE
ISSUE DATE:	8/6/24				
SCALE:	AS SHOWN				
DESIGNED BY:	EJT				
DRAWN BY:	BKU				
CHECKED BY:	EH				

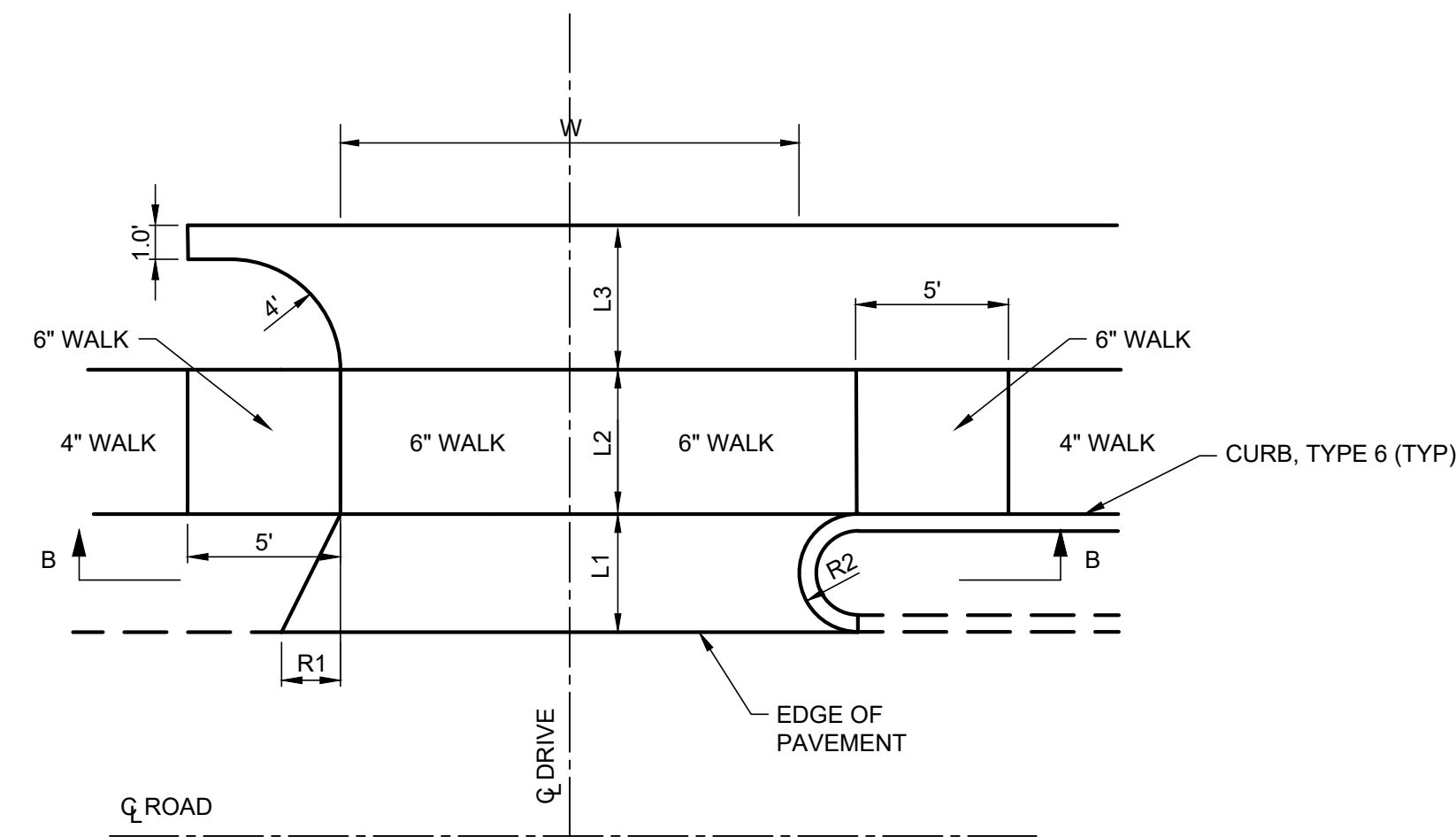
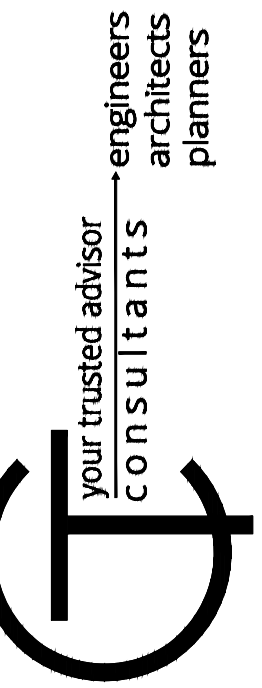
**MIDDLE RIDGE ROAD  
 SIDEWALK IMPROVEMENTS  
 VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**STANDARD DETAILS - 2**

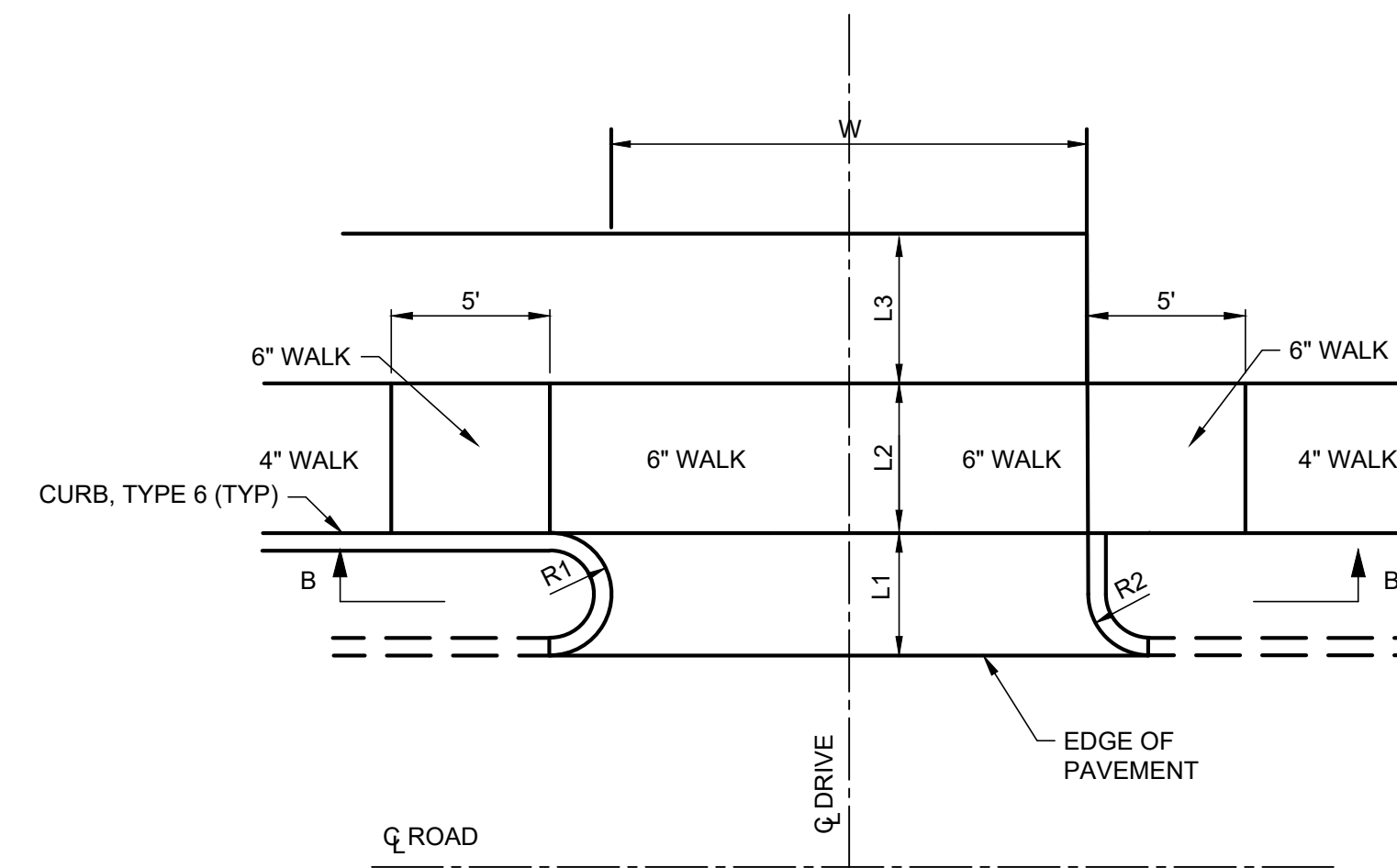
PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	STD-DET2
SHEET	OF
5	25



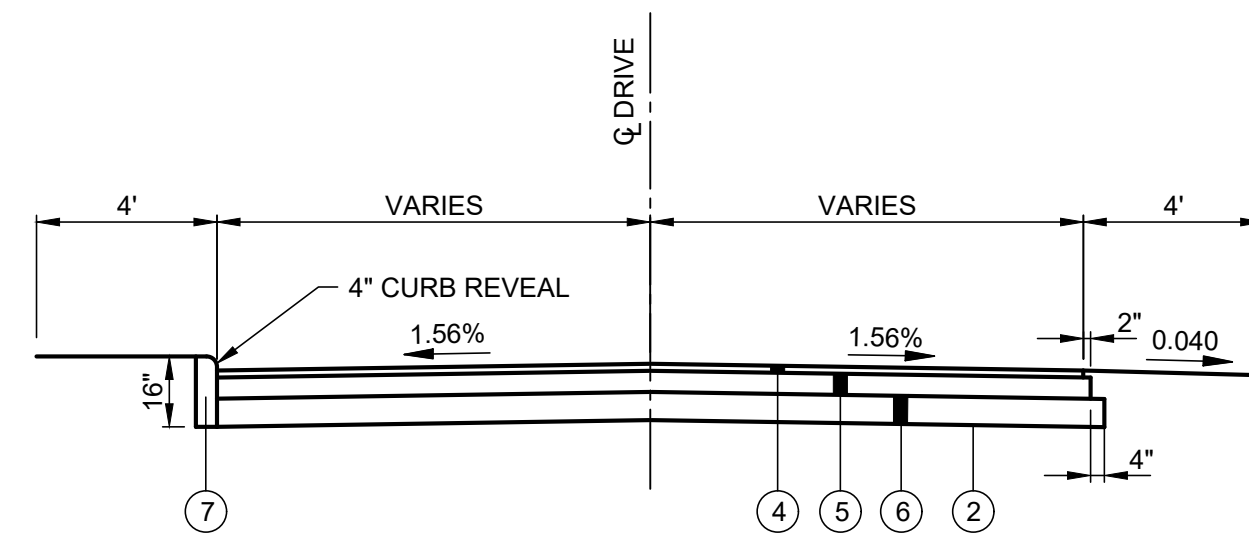
**BID SET**



**DRIVEWAY 13  
PLAN VIEW (TYP)**



**DRIVEWAY 14  
PLAN VIEW (TYP)**



**COMMERCIAL ASPHALT DRIVE TYPICAL SECTION  
DW-14 (DW-13 IS REVERSE)**

**LEGEND:**

- ④ ITEM 441 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- ⑤ ITEM 301 4" ASPHALT CONCRETE BASE, PG64-22
- ⑥ ITEM 304 6" AGGREGATE BASE
- ⑦ ITEM 609 CURB, TYPE 6, AS PER PLAN
- ② ITEM 204 SUBGRADE COMPACTION

ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**STANDARD DETAILS - 3**

PROJECT NO.	<b>241143</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>STD-DET2</b>
SHEET	OF
<b>6</b>	<b>25</b>



**MAINTENANCE OF TRAFFIC NOTES:**

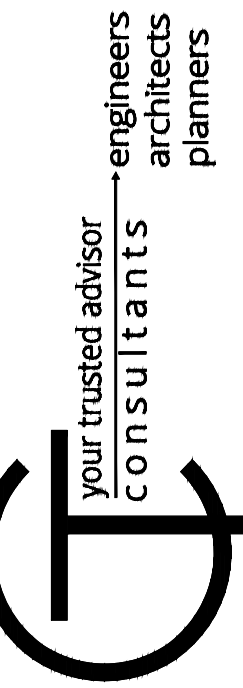
1. MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).
2. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND ACCEPTANCE BY THE ENGINEER PRIOR TO BEGINNING WORK.
3. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE LOCAL ACCESS, VEHICULAR AND PEDESTRIAN INCLUDING PERSONS WITH DISABILITIES, TO ALL PROPERTIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR WILL FURNISH, MAINTAIN AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGGERS, SIGNING, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROLS TO INSURE THE SAFETY OF PERSONS AND VEHICLES DURING CONSTRUCTION WITHIN THE PROJECT LIMITS.
4. AT ALL EXCAVATION LOCATIONS THE CONTRACTOR SHALL PROVIDE SUITABLE FLASHERS, BARRICADES, AND TRAFFIC CONTROL DEVICES AS DEEMED NECESSARY BY THE ENGINEER AND IN ACCORDANCE WITH THE MUTCD. SUCH TIME AS THE AREA IS COMPLETELY BACKFILLED.
5. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MUTCD. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.
6. AT LEAST ONE LANE OF TRAFFIC MUST BE MAINTAINED ALONG THE TRAVEL ROUTE TO THE CONSTRUCTION SITE.
7. ACCESS MUST BE MAINTAINED FOR EMERGENCY VEHICLES AT ALL TIMES.
8. NO TRENCH WILL BE LEFT OPEN AT THE END OF A WORK DAY, WHERE PRACTICAL; ANY OPEN TRENCH WILL BE PROPERLY IDENTIFIED AND BARRICADED FOR SAFETY PURPOSES.
9. PRIOR TO CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE, OR BOULEVARD, THE CONTRACTOR MUST HAVE CONSENT FROM LOCAL OFFICIALS AND THE ENGINEER.
10. CONTRACTOR SHALL ALSO REFER TO THE 'CONSTRUCTION TRAFFIC PLAN' ON SHEET 00G-06 FOR PROHIBITED AND ALLOWED CONSTRUCTION TRAFFIC ROUTES TO ACCESS THE PROJECT SITE.

**CONSTRUCTION SEQUENCE:**

1. CONSTRUCT SIDEWALK ON STATE ROUTE 529 FROM SOUTH TO NORTH.
2. SEED AND MULCH THE GROUND ADJACENT TO THE NEWLY CONSTRUCTED SIDEWALK ON STATE ROUTE 529.
3. CONSTRUCT SIDEWALK ON MIDDLE RIDGE ROAD FROM EAST TO WEST. WORK AREA SHALL NOT EXCEED THE LENGTH SHOWN IN THE MOT DETAILS.
4. AFTER SIDEWALK CONSTRUCTION IN EACH WORK AREA, SEED AND MULCH THE GROUND ADJACENT TO THE NEWLY CONSTRUCTED SIDEWALK.
5. CONSTRUCT PEDESTRIAN BRIDGES.

TOTAL QUANTITIES			
ITEM	QTY	UNIT	DESCRIPTION
201	1	LS	CLEARING AND GRUBBING
202	743	SY	PAVEMENT REMOVED
203	800	CY	EXCAVATION
203	1000	CY	EMBANKMENT
204	3700	SY	SUBGRADE COMPACTION
252	289	FT	FULL DEPTH PAVEMENT SAWING
301	34	CY	ASPHALT CONCRETE BASE, PG64-22
304	380	CY	AGGREGATE BASE
411	165	CY	STABILIZED CRUSHED AGGREGATE
441	17	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
530	2	EA	SPECIAL - STRUCTURE, MISC.: PEDESTRIAN BRIDGE DESIGN & CONSTRUCTION, COMPLETE
608	23000	SF	4" CONCRETE WALK
608	2200	SF	6" CONCRETE WALK
608	1100	SF	CURB RAMP
609	100	FT	CURB, TYPE 6, AS PER PLAN
614	1	LS	MAINTAINING TRAFFIC
623	1	LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING
624	1	LS	MOBILIZATION
630	70	FT	GROUND MOUNTED SUPPORT, NO. 3 POST
630	45	SF	SIGN, FLAT SHEET
642	120	FT	STOP LINE
642	700	FT	CROSSWALK LINE
653	300	CY	TOPSOIL FURNISHED AND PLACED
659	5500	SY	SEEDING AND MULCHING, AS PER PLAN
670	2600	SY	SLOPE EROSION PROTECTION
832	1	EACH	STORMWATER POLLUTION PREVENTION PLAN
832	1100	FT	CONSTRUCTION SEEDING AND MULCHING
832	50	EACH	INLET PROTECTION
832	5	EACH	CONSTRUCTION ENTRANCE
832	2500	FT	STRAW WATTLE

**BID SET**



ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

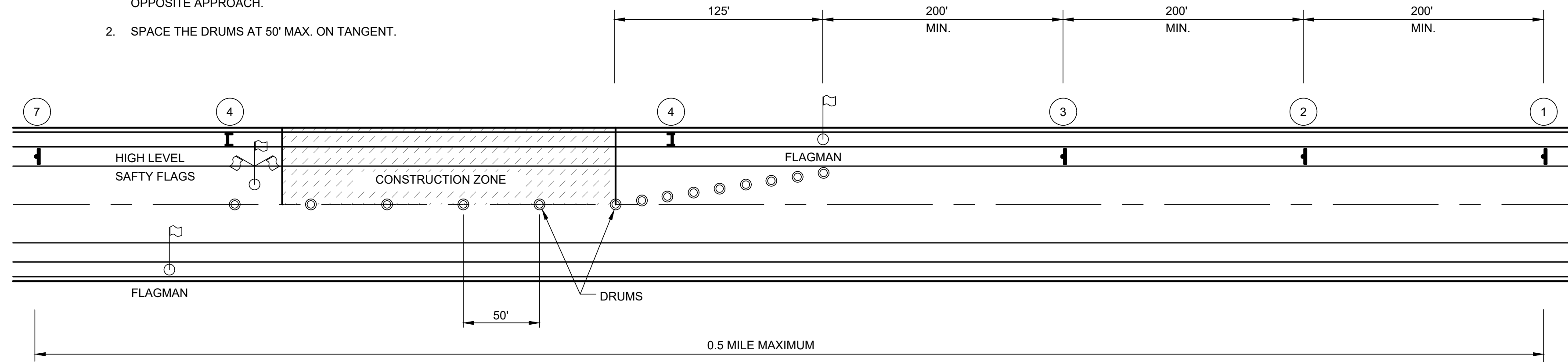
**MAINTENANCE OF TRAFFIC NOTES**

PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	MOT-NOTE
SHEET	7
OF	25



**NOTES:**

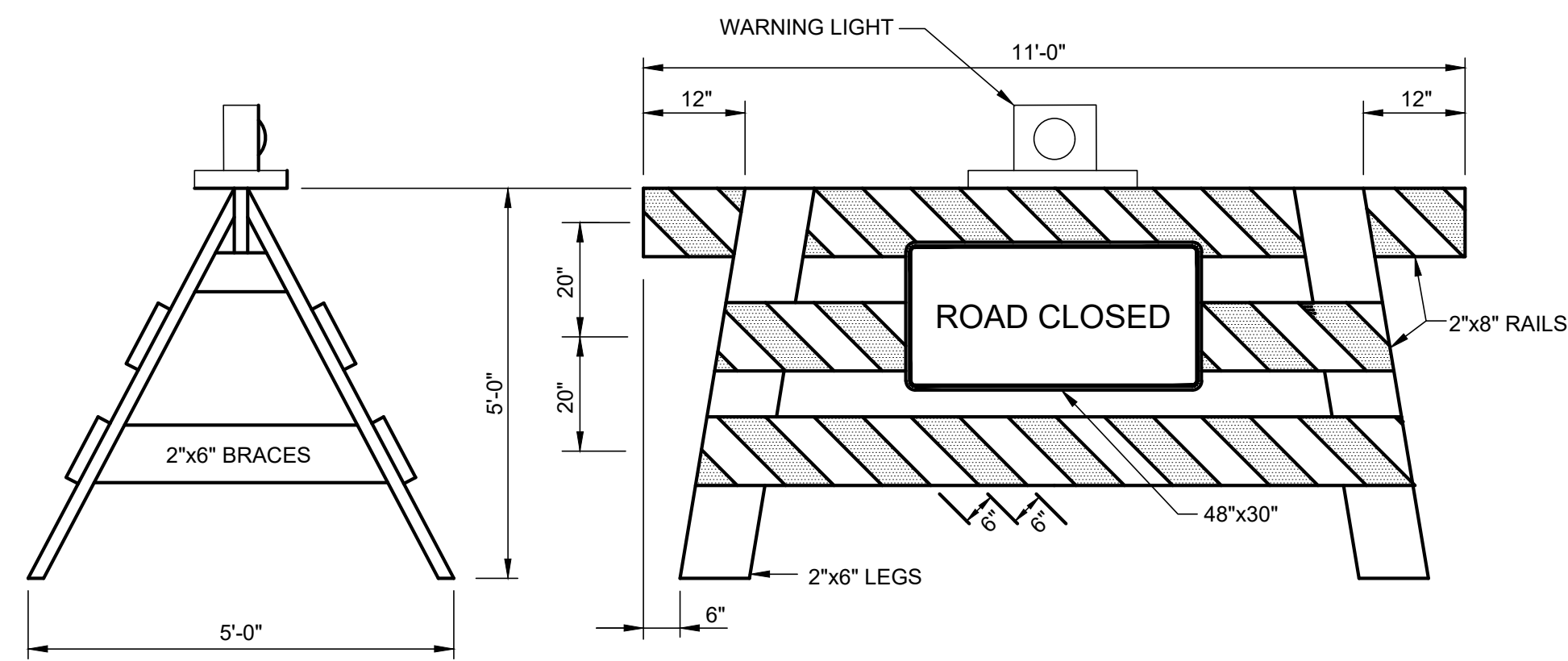
1. USE THE SAME WARNING SIGNS ON THE OPPOSITE APPROACH.
2. SPACE THE DRUMS AT 50' MAX. ON TANGENT.



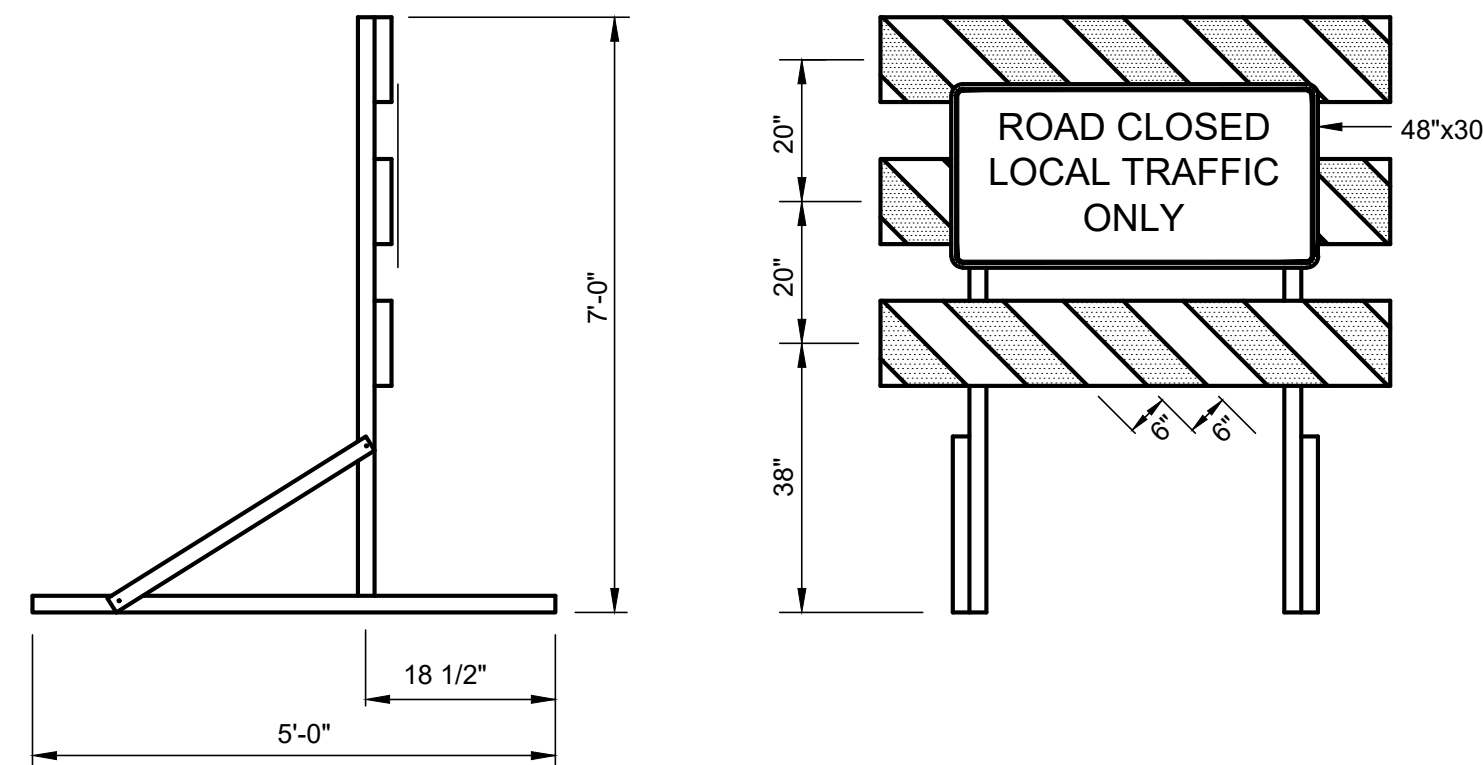
**CONSTRUCTION - ONE LANE**

**MOT DETAIL NOTES:**

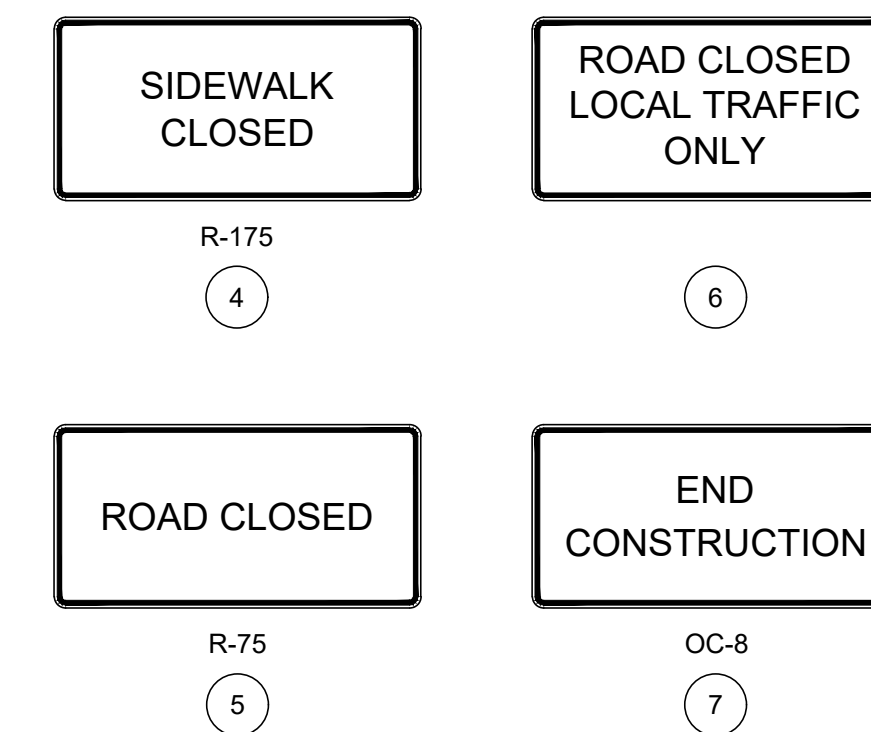
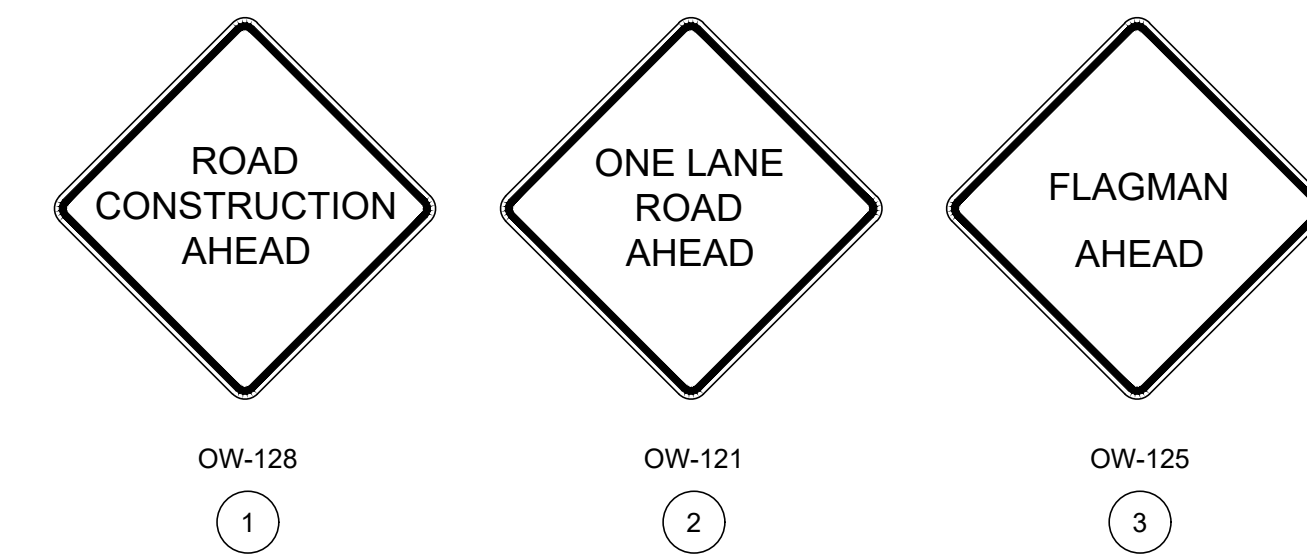
- BARRICADES:** BARRICADES SHALL BE CONSTRUCTED ACCORDING TO DETAILS SHOWN. WHEN THE ROAD IS CLOSED TO TRAFFIC, BARRICADES SHALL BE USED TO EFFECTIVELY CLOSE THE ENTIRE ROADWAY. THE ENDS OF THE BARRICADE SHALL BE LOCATED BY THE ENGINEER TO EFFECT THE DESIRED CLOSING OF THE ROADWAY.
- PAINTING AND REFLECTORIZATION:** ALL RAILS OF THE BARRICADES AND GATES SHALL BE REFLECTORIZED WITH ORANGE AND WHITE REFLECTORIZED TYPE "G" SHEETING IN 6" WIDE ALTERNATE STRIPES WHICH SLOPE DOWNWARD TOWARD THE CENTERLINE OF THE ROAD AT AN ANGLE OF 45°. ALL THREE RAILS OF THE ROAD CLOSED BARRICADE SHALL BE STRIPED ON THE SIDE FACING TRAFFIC. ALL GATE RAILS SHALL BE STRIPED ON BOTH SIDES. ALL POSTS, BRACES, GATE-LEGS, AND UNSTRIPED RAILS SHALL BE PAINTED WHITE.
- TYPE "C" STEADY BURNING BARRICADE WARNING LIGHTS:** EACH GATE SHALL BE EQUIPPED WITH A TYPE "C" STEADY BURNING BARRICADE WARNING LIGHT, CONSPICUOUSLY VISIBLE AT ALL DISTANCES UP TO 1000' UNDER NORMAL CONDITIONS BETWEEN SUNSET AND SUNRISE DURING THE PERIOD THE ROAD IS CLOSED.
- SIGNS:** WHERE THE ROAD IS CLOSED TO TRAFFIC BY THE ERECTION OF BARRICADES, "ROAD CLOSED" SIGNS (R-75) SHALL BE MOUNTED ON THE BARRICADES AS SHOWN. WHEN TRAFFIC IS MAINTAINED, A "ROAD CONSTRUCTION AHEAD" SIGN (OW-128) SHALL BE USED ON THE RIGHT SHOULDER ON THE APPROACHES AT THE INTERSECTING STREET IN ADVANCE OF THE PROJECT. WHERE THE SIDEWALK IS CLOSED TO PEDESTRIAN TRAFFIC "SIDEWALK CLOSED" SIGNS SHALL BE ERECTED ACROSS THE WALK AT THE LOCATION SHOWN.



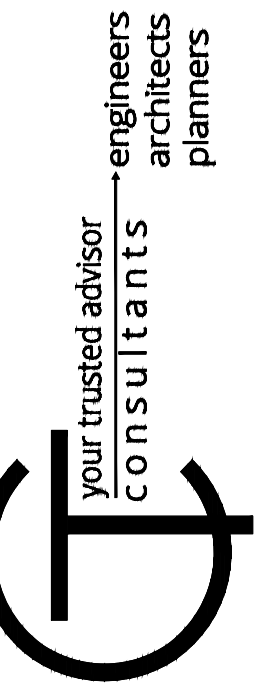
**TYPE III DEMOUNTABLE CONSTRUCTION BARRICADE**



**TYPE III PORTABLE CONSTRUCTION BARRICADE**



**BID SET**



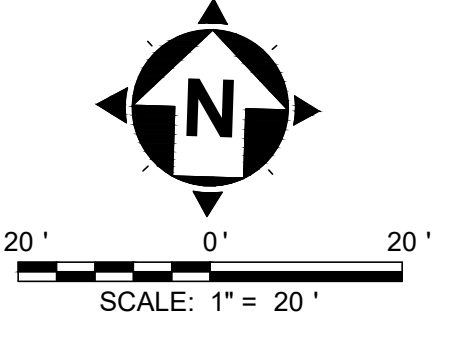
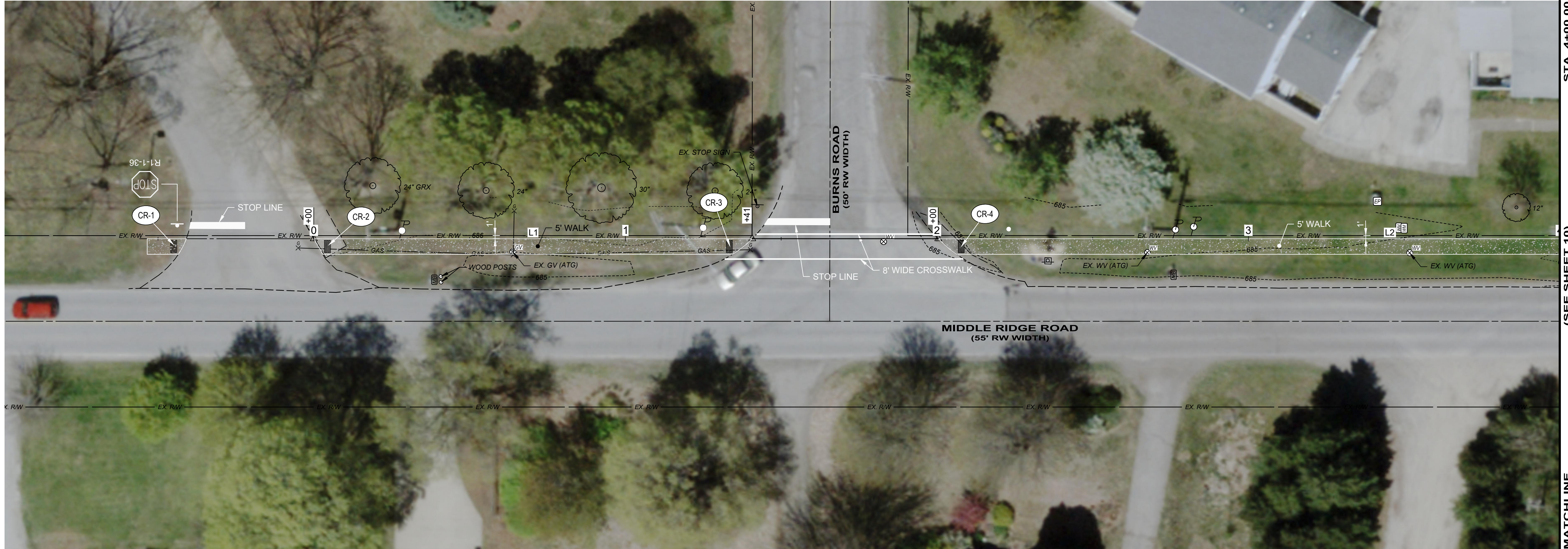
ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE: 8/6/24	BID SET			
SCALE: AS SHOWN				
DESIGNED BY: EJT				
DRAWN BY: BKU				
CHECKED BY: EH				

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**MAINTENANCE OF TRAFFIC DETAILS**

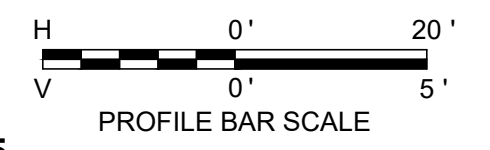
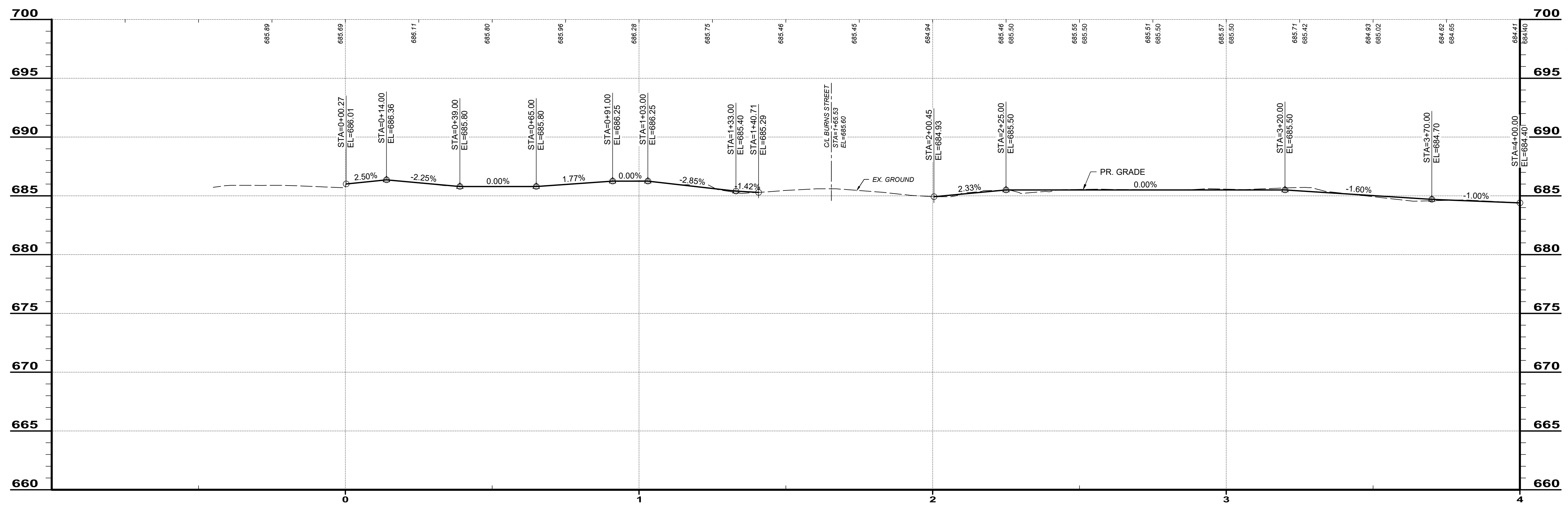
PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	MOT-DET
SHEET	8
OF	25





**NOTES:**  
 1. FOR SIDEWALK ALIGNMENT COORDINATE TABLE, SEE SHEET 20.

- LEGEND:**
- CR-X = CURB RAMP
  - BR-X = BRIDGE
  - DR-X = DRIVEWAY
  - P-X = PAVEMENT



**SIDEWALK PROFILE - 1**

**BID SET**

your trusted advisor  
**consultants**  
 engineers  
 architects  
 planners

ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
 SIDEWALK IMPROVEMENTS  
 VILLAGE OF MADISON, LAKE COUNTY, OHIO**

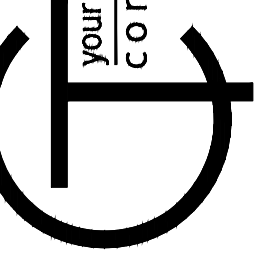
**SIDEWALK PLAN & PROFILES  
 STA. 0+00.00 TO STA. 4+00.00**

PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SW-P&P1
SHEET	9
OF	25



BID SET

your trusted advisor  
engineers  
architects  
planners  
consultants

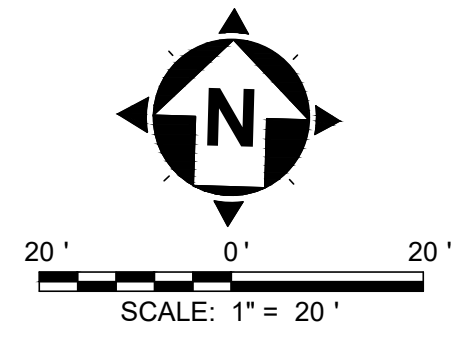


ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS**  
VILLAGE OF MADISON, LAKE COUNTY, OHIO

**SIDEWALK PLAN & PROFILES**  
STA. 4+00.00 TO STA. 9+00.00

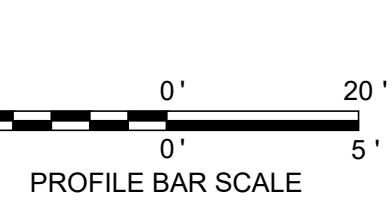
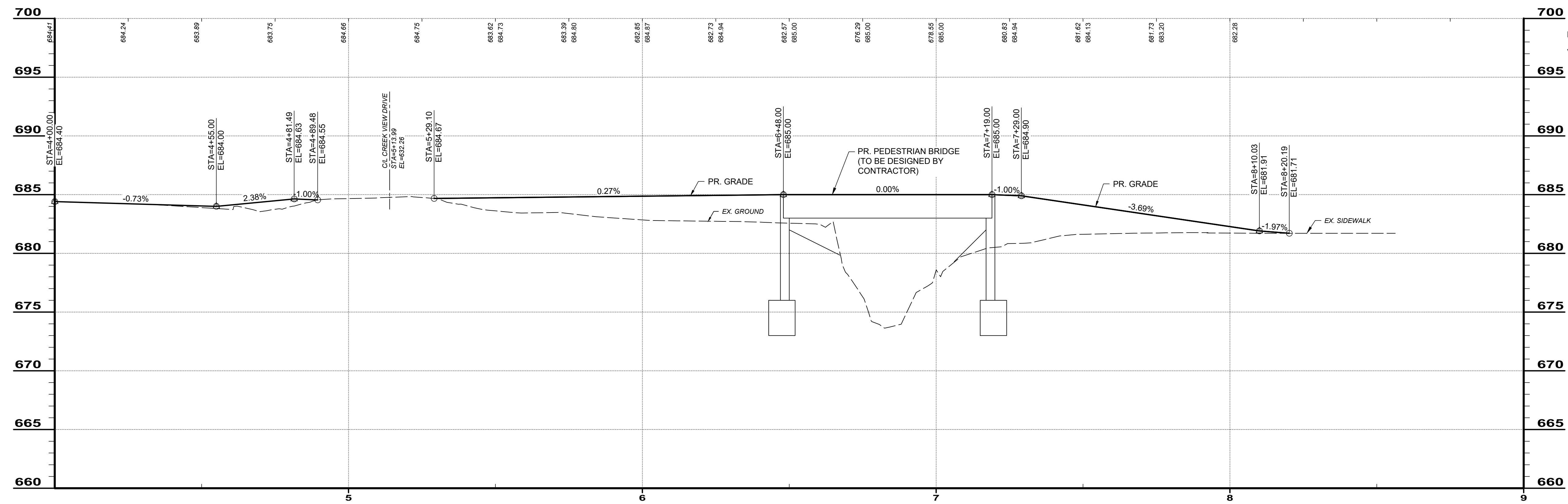
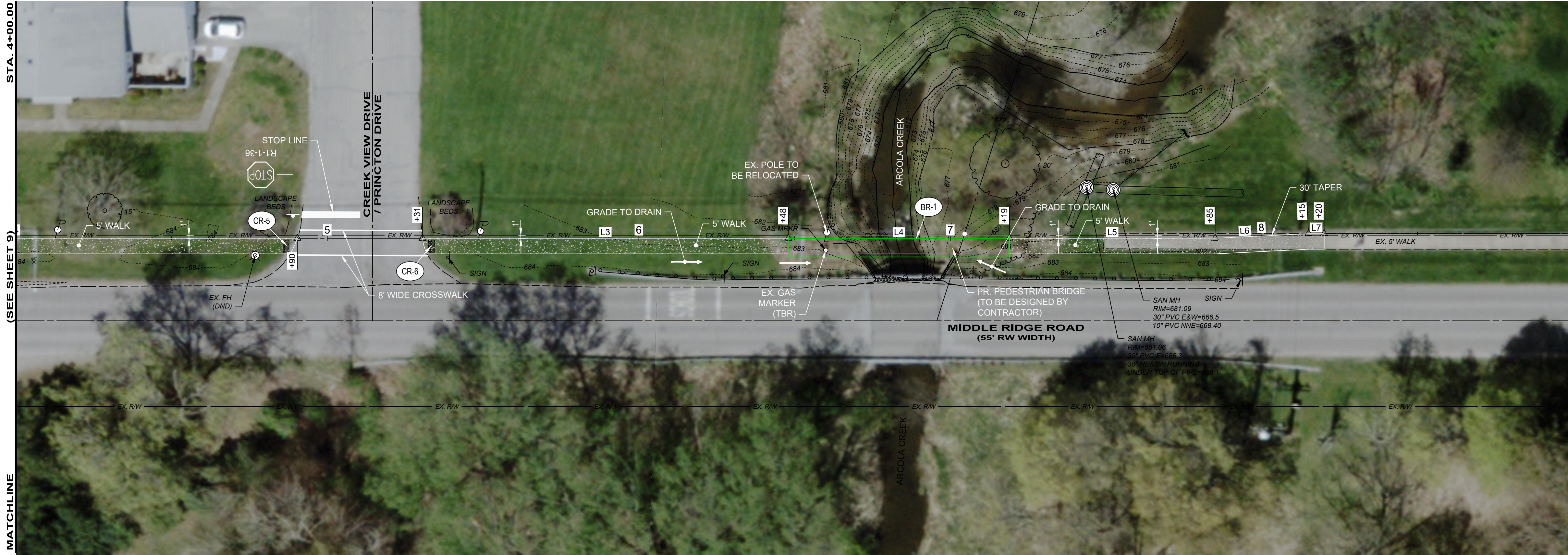
PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SW-P&P2
SHEET	10
OF	25



**NOTES:**

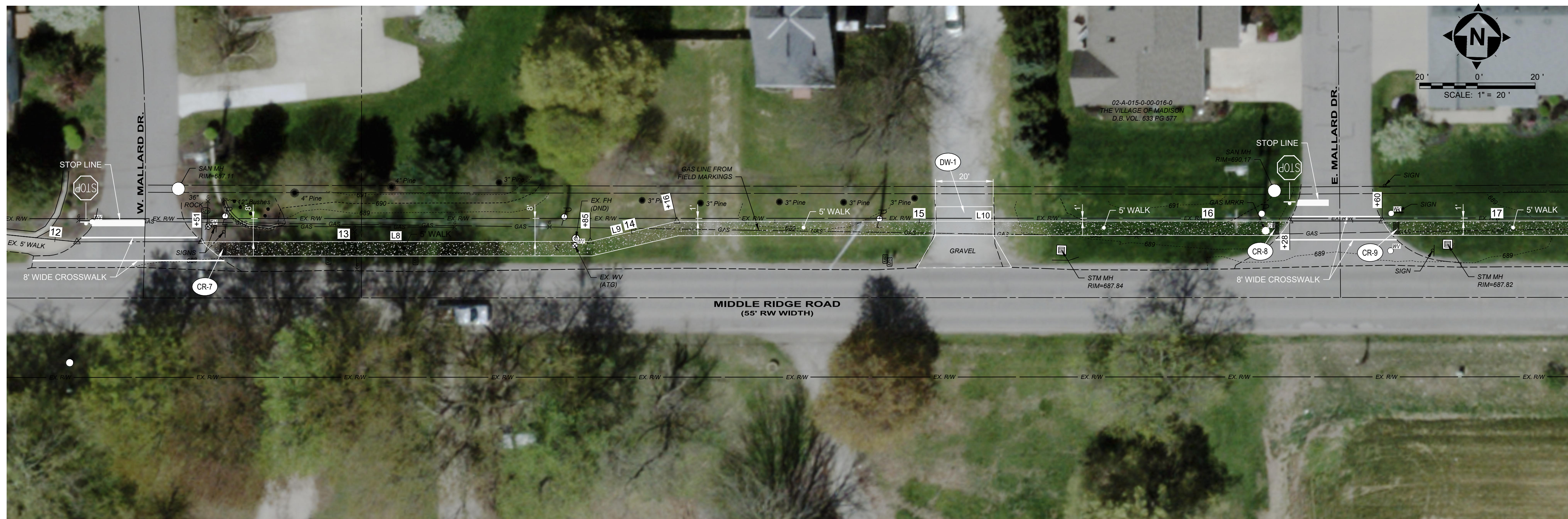
1. FOR SIDEWALK ALIGNMENT COORDINATE TABLE, SEE SHEET 20.

- LEGEND:**
- CR-X = CURB RAMP
  - BR-X = BRIDGE
  - DR-X = DRIVEWAY
  - P-X = PAVEMENT



SIDEWALK PROFILE - 2





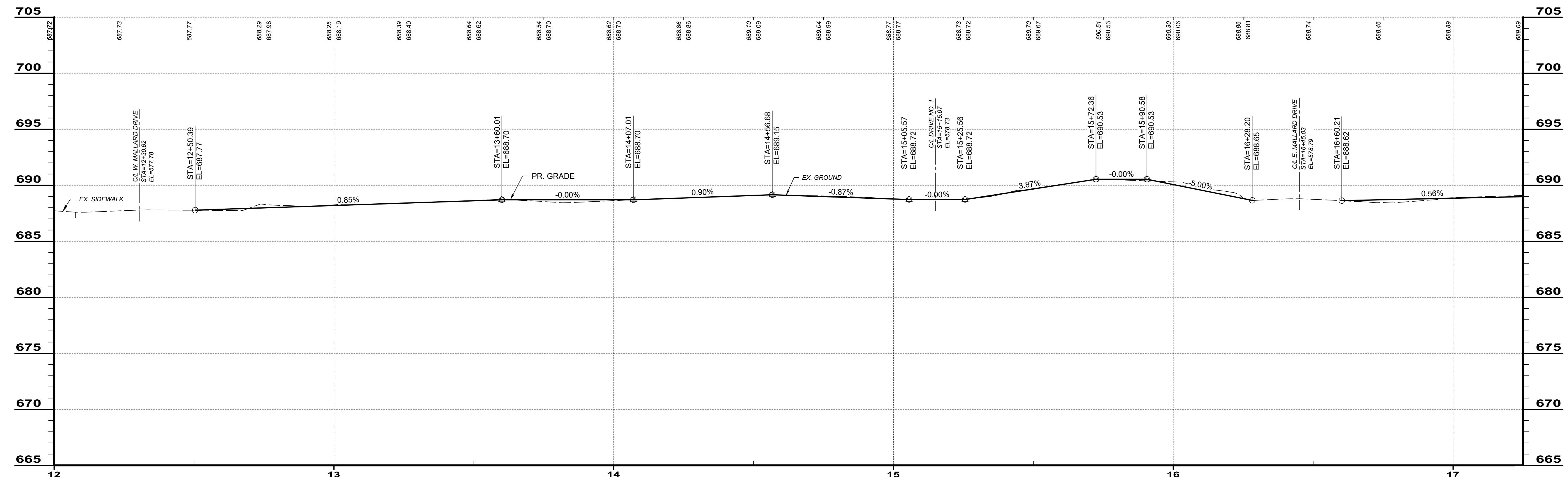
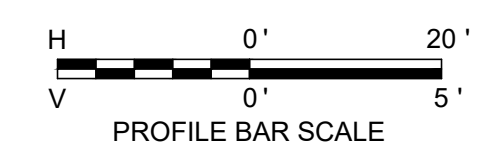
MATCHLINE (SEE SHEET 12) STA. 17+25.00

**NOTES:**

- FOR SIDEWALK ALIGNMENT COORDINATE TABLE, SEE SHEET 20.

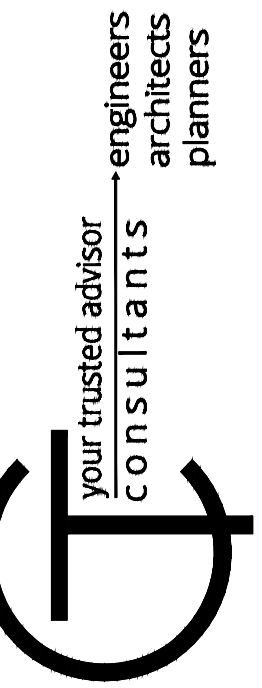
**LEGEND:**

- (CR-X) = CURB RAMP
- (BR-X) = BRIDGE
- (DR-X) = DRIVEWAY
- (P-X) = PAVEMENT



**SIDEWALK PROFILE - 3**

**BID SET**



ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

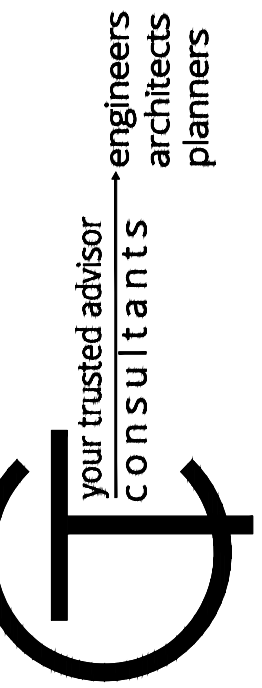
**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**SIDEWALK PLAN & PROFILES  
STA. 12+00.00 TO STA. 17+25.00**

PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SW-P&P3
SHEET	11
OF	25



**BID SET**



your trusted advisor  
consultants  
engineers  
architects  
planners

ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

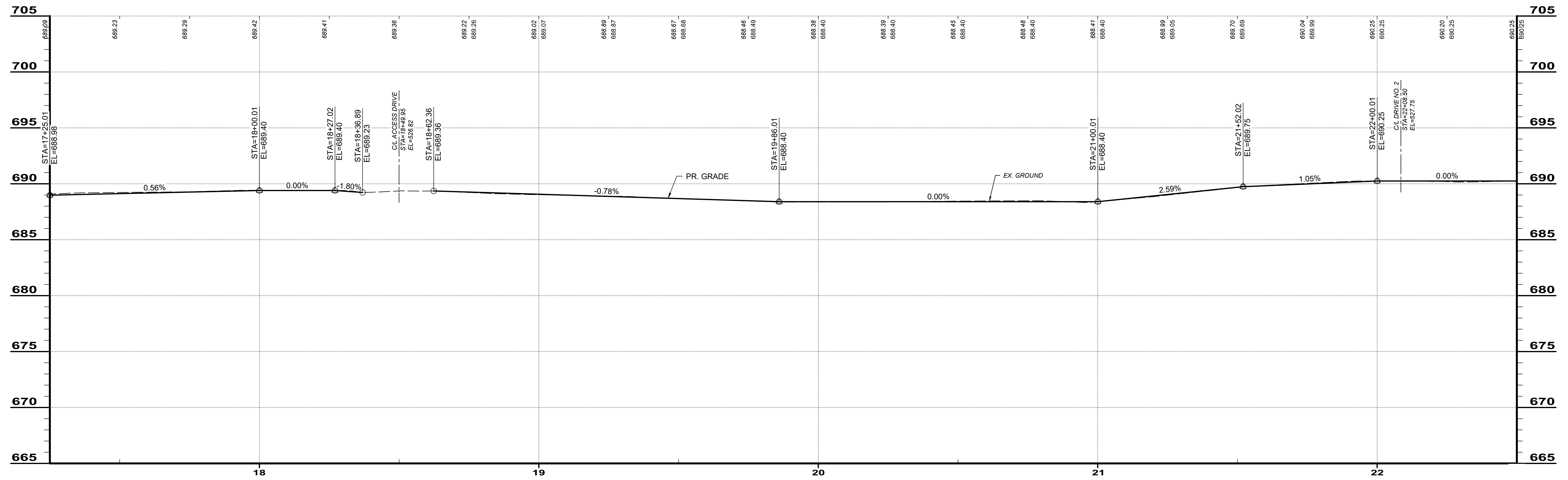
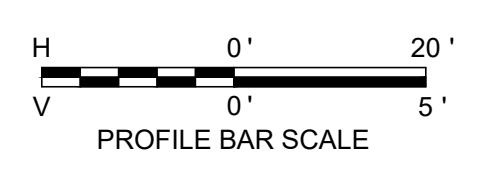
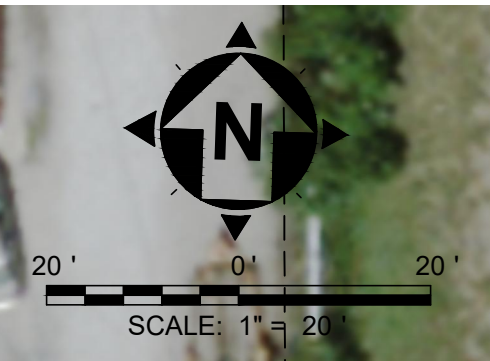
**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS**  
VILLAGE OF MADISON, LAKE COUNTY, OHIO

**SIDEWALK PLAN & PROFILES**  
STA. 17+25.00 TO STA. 27+25.00

PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SW-P&P4
SHEET	12
OF	25

**NOTES:**  
1. FOR SIDEWALK ALIGNMENT COORDINATE TABLE, SEE SHEET 20.

**LEGEND:**  
 (CR-X) = CURB RAMP  
 (BR-X) = BRIDGE  
 (DR-X) = DRIVEWAY  
 (P-X) = PAVEMENT



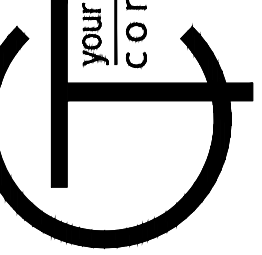
**SIDEWALK PROFILE - 4**



**BID SET**

your trusted advisor  
engineers  
architects  
planners

your trusted advisor  
consultants



ISSUED FOR: BID SET

ISSUE DATE: 8/6/24

SCALE: AS SHOWN

DESIGNED BY: EJT

DRAWN BY: BKU

CHECKED BY: EH

NO.

REVISION

DATE

BID SET

AS SHOWN

EJT

BKU

EH

PROJECT NO.

241143

DISCIPLINE

CIVIL

SHEET NAME

SW-P&P5

SHEET

13

OF

25

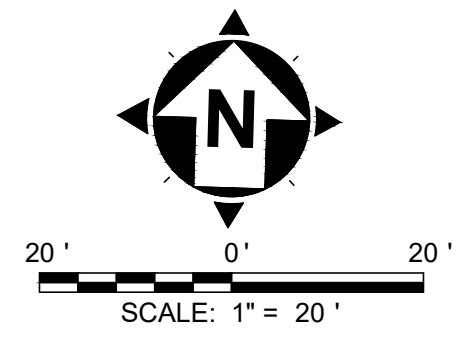
MIDDLE RIDGE ROAD

SIDEWALK IMPROVEMENTS

VILLAGE OF MADISON, LAKE COUNTY, OHIO

SIDEWALK PLAN & PROFILES

STA. 22+50.00 TO STA. 27+25.00

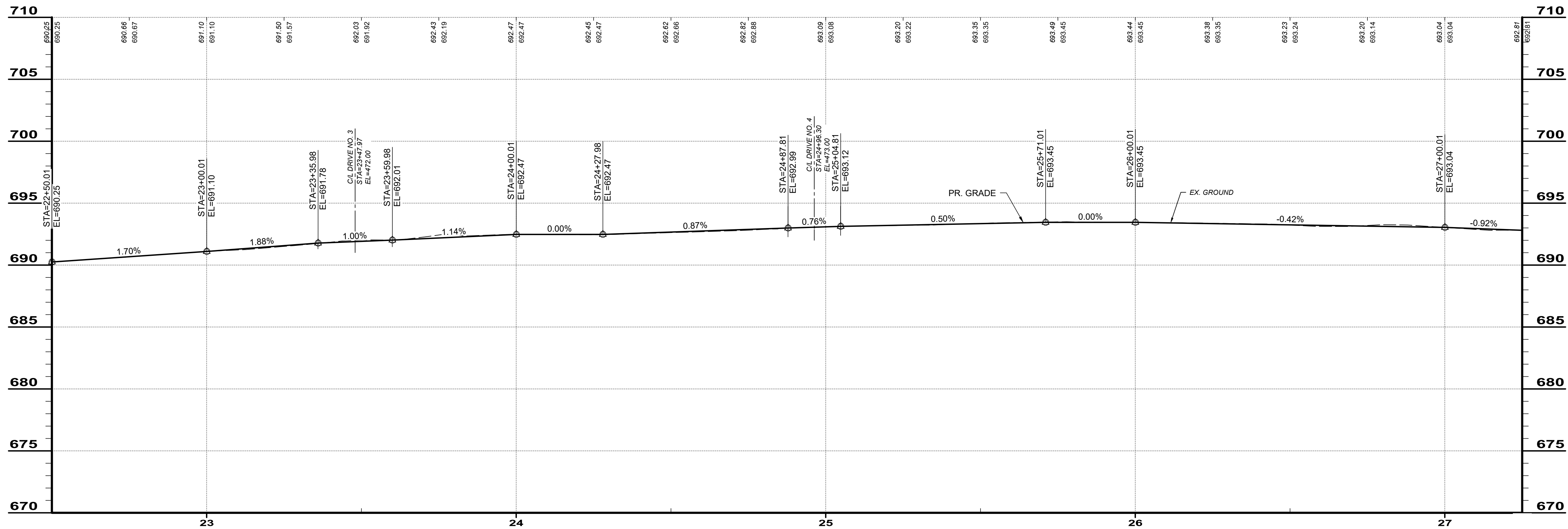
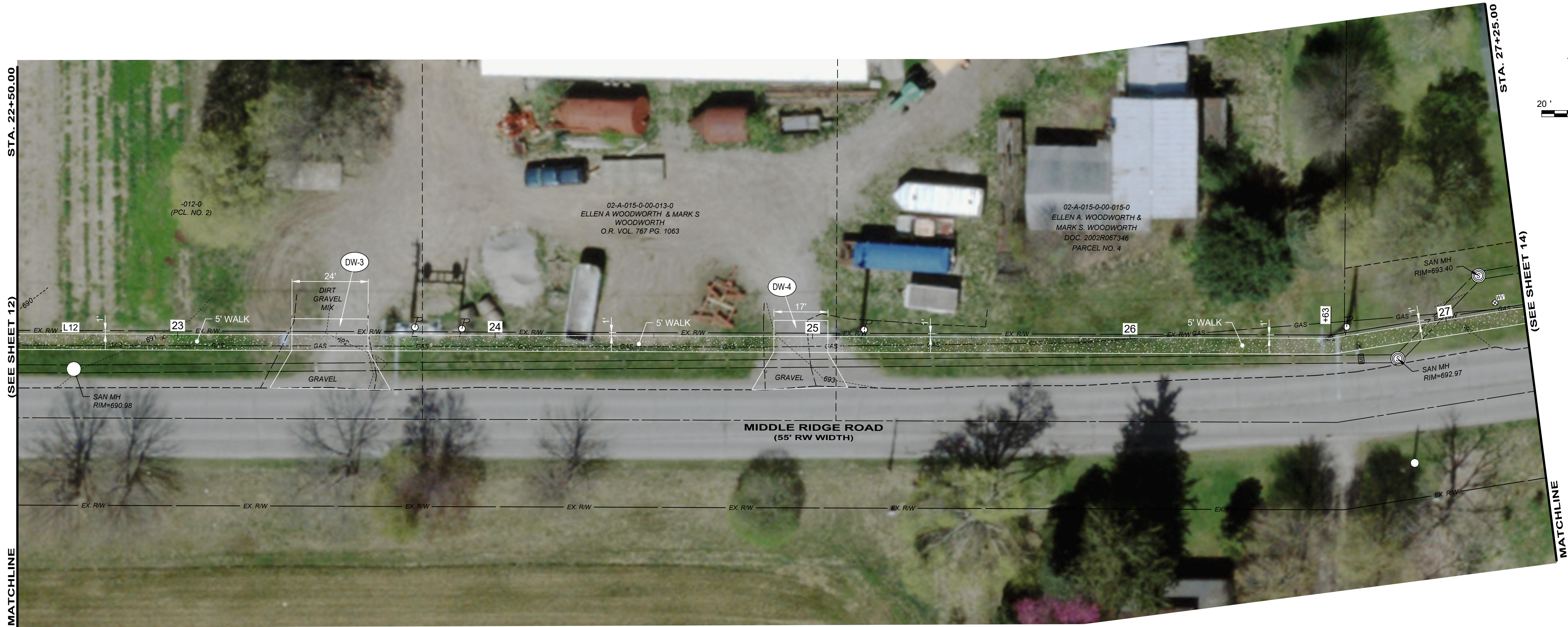
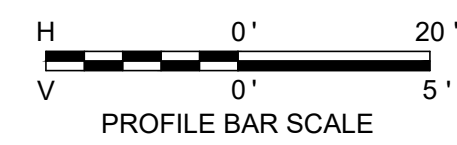


**NOTES:**

- 1. FOR SIDEWALK ALIGNMENT COORDINATE TABLE, SEE SHEET 20.

**LEGEND:**

- CR-X = CURB RAMP
- BR-X = BRIDGE
- DR-X = DRIVEWAY
- P-X = PAVEMENT

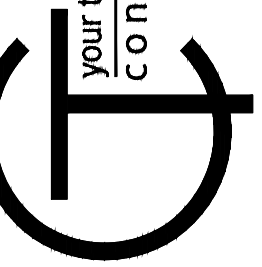


**SIDEWALK PROFILE - 5**



**BID SET**

your trusted advisor  
consultants  
engineers  
architects  
planners

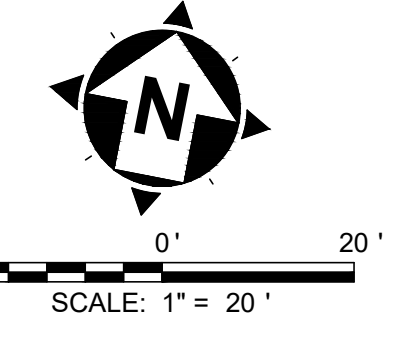


ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS**  
VILLAGE OF MADISON, LAKE COUNTY, OHIO

**SIDEWALK PLAN & PROFILES**  
STA. 27+25.00 TO STA. 31+85.00

PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SW-P&P6
SHEET	14
OF	25

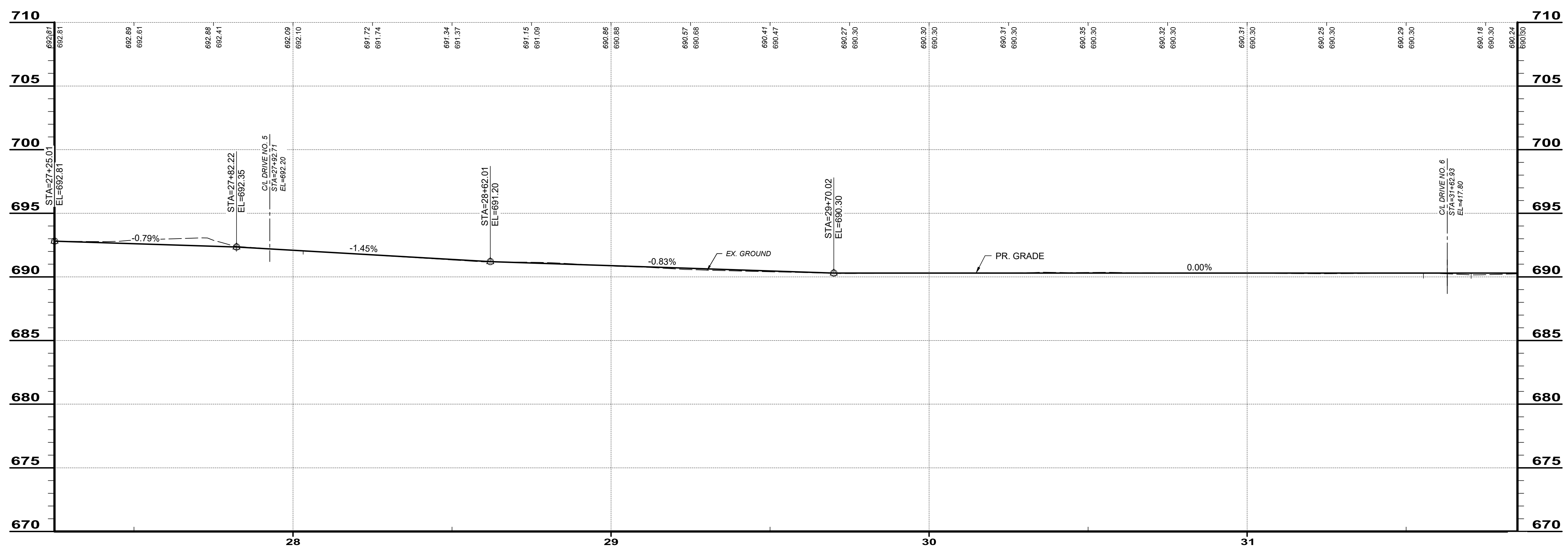
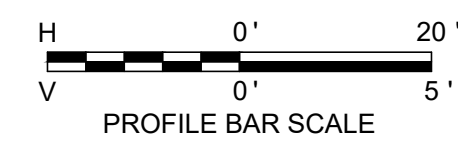


**NOTES:**

1. FOR SIDEWALK ALIGNMENT COORDINATE TABLE, SEE SHEET 20.

**LEGEND:**

- CR-X = CURB RAMP
- BR-X = BRIDGE
- DR-X = DRIVEWAY
- P-X = PAVEMENT



**SIDEWALK PROFILE - 6**



**BID SET**

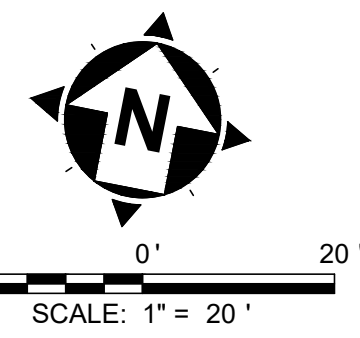
your trusted advisor  
**consultants**  
 engineers  
 architects  
 planners

ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
 SIDEWALK IMPROVEMENTS**  
 VILLAGE OF MADISON, LAKE COUNTY, OHIO

**SIDEWALK PLAN & PROFILES**  
 STA. 31+85.00 TO STA. 36+50.00

PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SW-P&P7
SHEET	OF
15	25

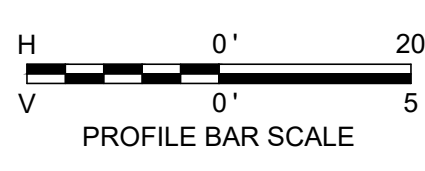
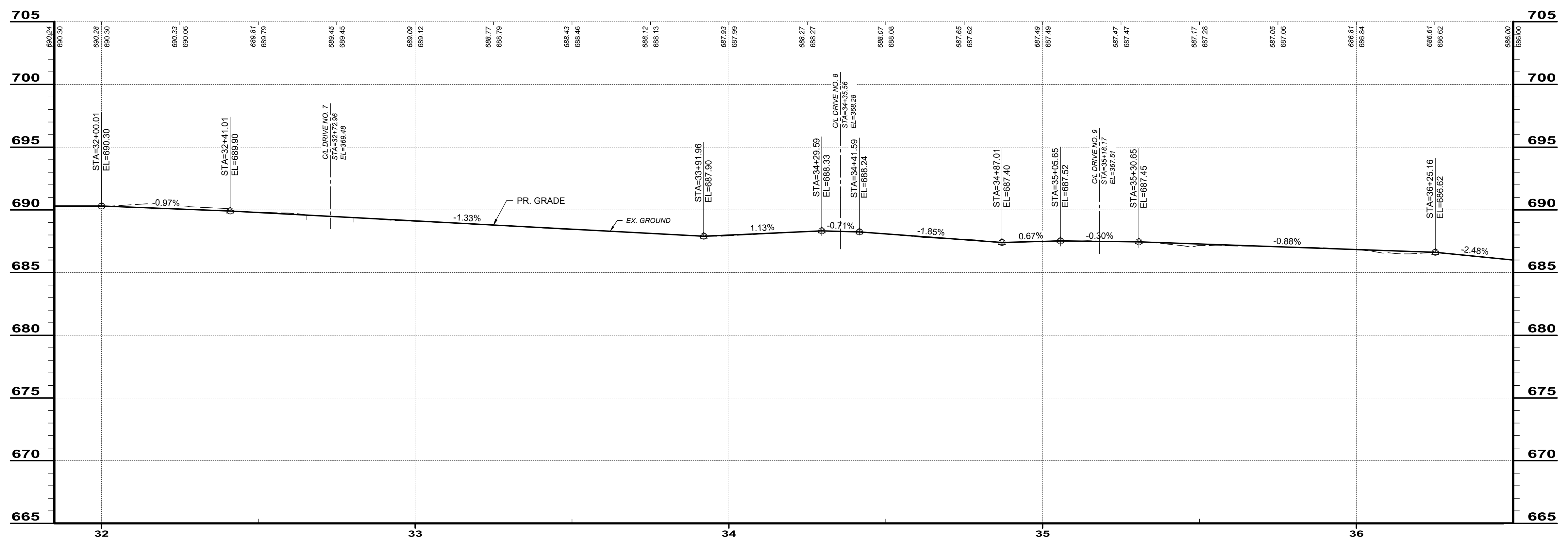


**NOTES:**

1. FOR SIDEWALK ALIGNMENT COORDINATE TABLE, SEE SHEET 20.

**LEGEND:**

- CR-X = CURB RAMP
- BR-X = BRIDGE
- DR-X = DRIVEWAY
- P-X = PAVEMENT

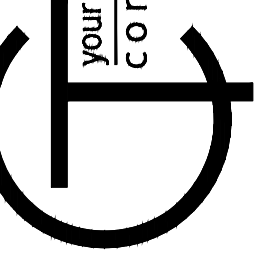


**SIDEWALK PROFILE - 7**



**BID SET**

your trusted advisor  
engineers  
architects  
planners  
consultants

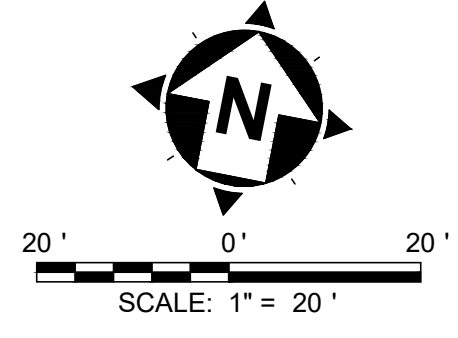


ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS**  
VILLAGE OF MADISON, LAKE COUNTY, OHIO

**SIDEWALK PLAN & PROFILES**  
STA. 36+50.00 TO STA. 41+50.00

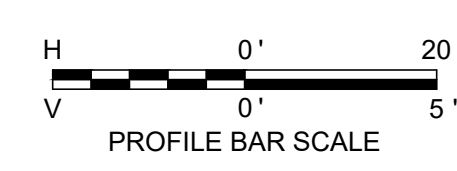
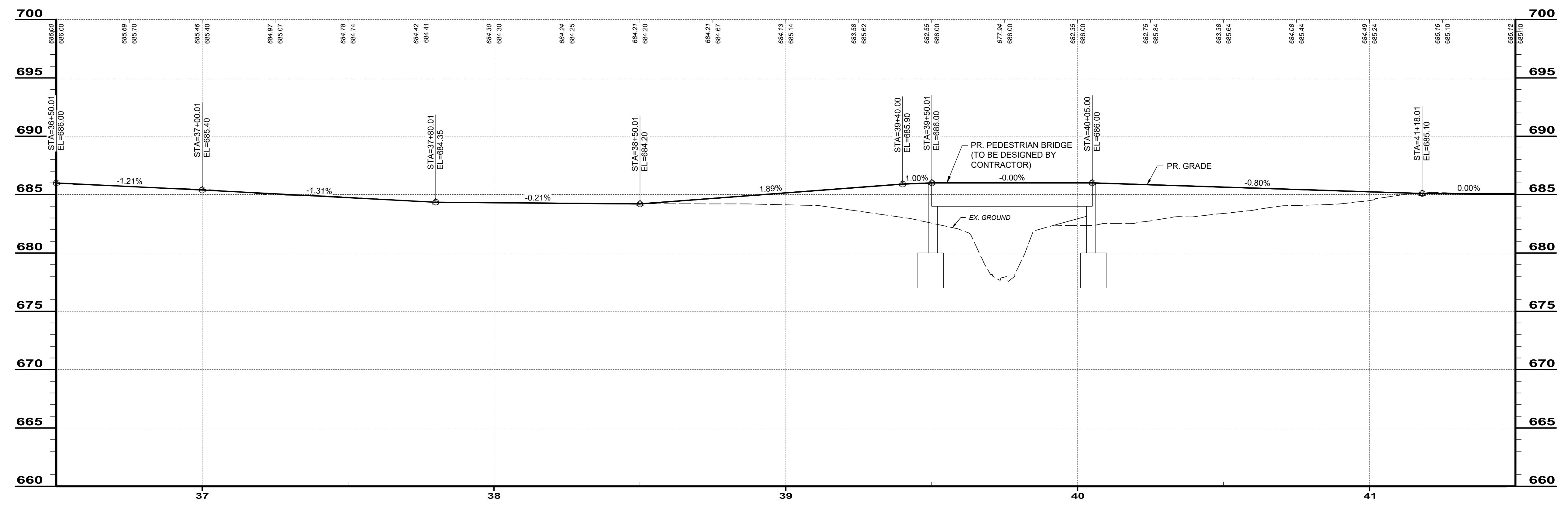
PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SW-P&P8
SHEET	16
OF	25



**NOTES:**

1. FOR SIDEWALK ALIGNMENT COORDINATE TABLE, SEE SHEET 20.

- LEGEND:**
- (CR-X) = CURB RAMP
  - (BR-X) = BRIDGE
  - (DR-X) = DRIVEWAY
  - (P-X) = PAVEMENT

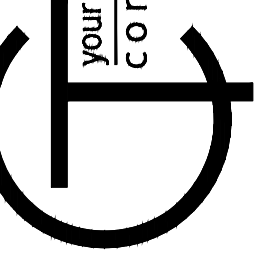


**SIDEWALK PROFILE - 8**



**BID SET**

your trusted advisor  
**consultants**  
 engineers  
 architects  
 planners

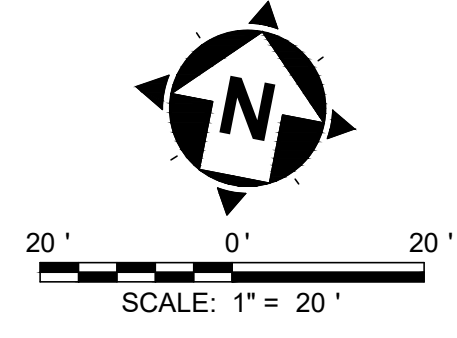


ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
 SIDEWALK IMPROVEMENTS**  
 VILLAGE OF MADISON, LAKE COUNTY, OHIO

**SIDEWALK PLAN & PROFILES**  
 STA. 36+50.00 TO STA. 41+50.00

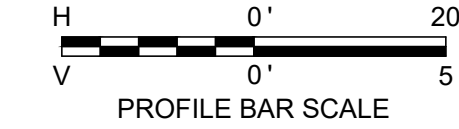
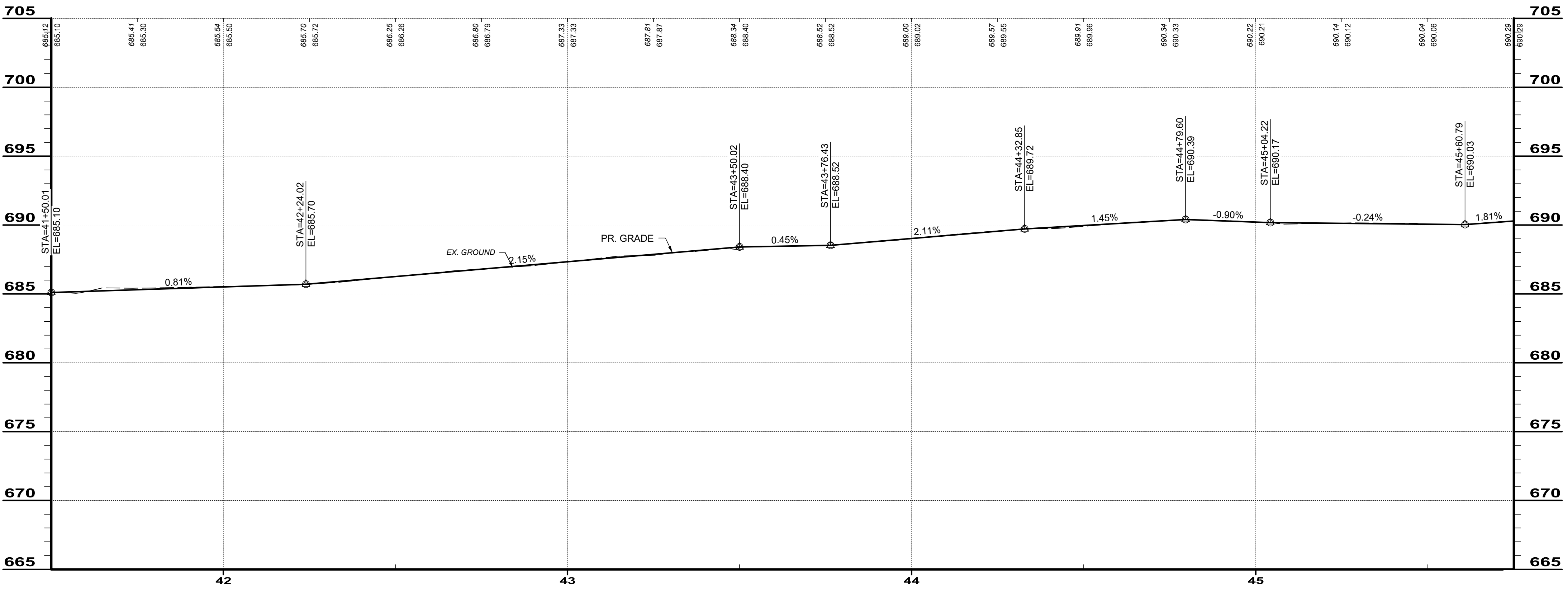
PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SW-P&P8
SHEET	OF
17	25



**NOTES:**

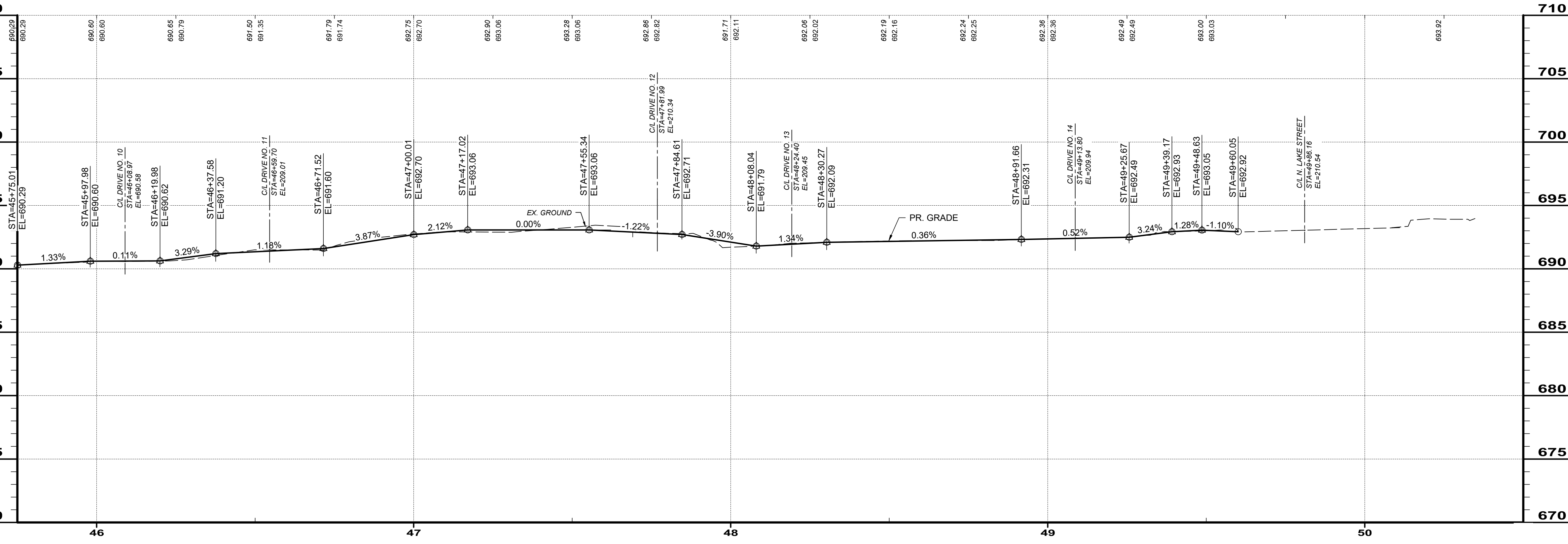
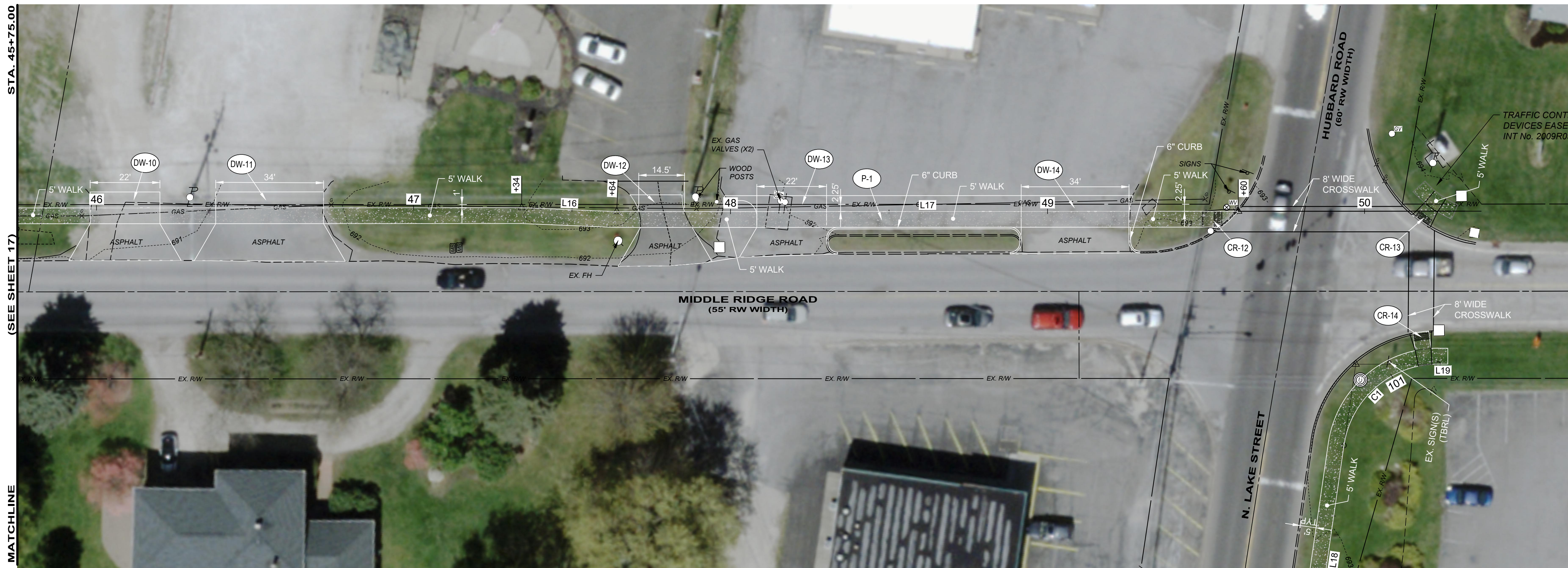
- FOR SIDEWALK ALIGNMENT COORDINATE TABLE, SEE SHEET 20.

- LEGEND:**
- CR-X = CURB RAMP
  - BR-X = BRIDGE
  - DR-X = DRIVEWAY
  - P-X = PAVEMENT

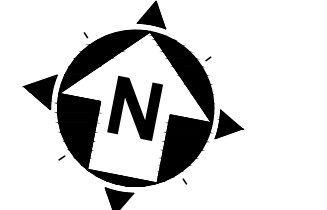


**SIDEWALK PROFILE - 9**





SIDEWALK PROFILE - 10



SCALE: 1" = 20'

**NOTES:**

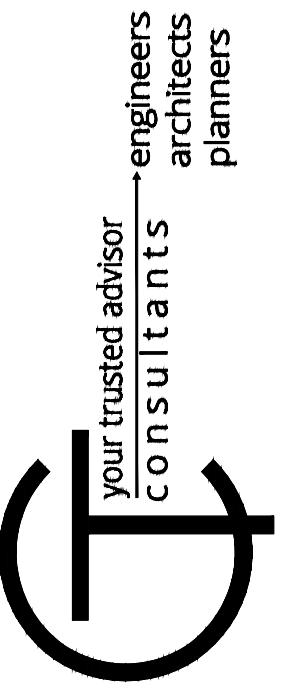
- 1. FOR SIDEWALK ALIGNMENT COORDINATE TABLE. SEE SHEET 20.

**LEGEND:**

- CR-X = CURB RAMP
- BR-X = BRIDGE
- DR-X = DRIVEWAY
- P-X = PAVEMENT

PROFILE BAR SCALE

**BID SET**



ISSUED FOR:	BID SET	NO	REVISION	DATE
ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**SIDEWALK PLAN & PROFILES  
STA. 45+75.00 TO END**

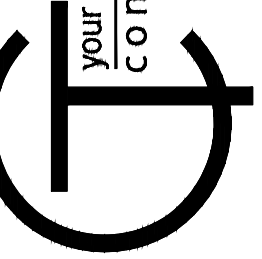
PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SW-P&P10
SHEET	18
OF	25



**BID SET**

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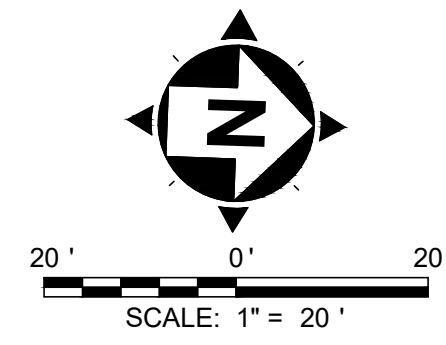


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ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS**  
VILLAGE OF MADISON, LAKE COUNTY, OHIO

**SIDEWALK PLAN & PROFILES**  
STA. 100+00.00 TO STA. 101+15.03

PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SW-P&P11
SHEET	19
OF	25

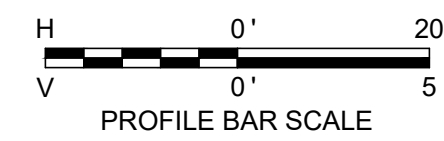
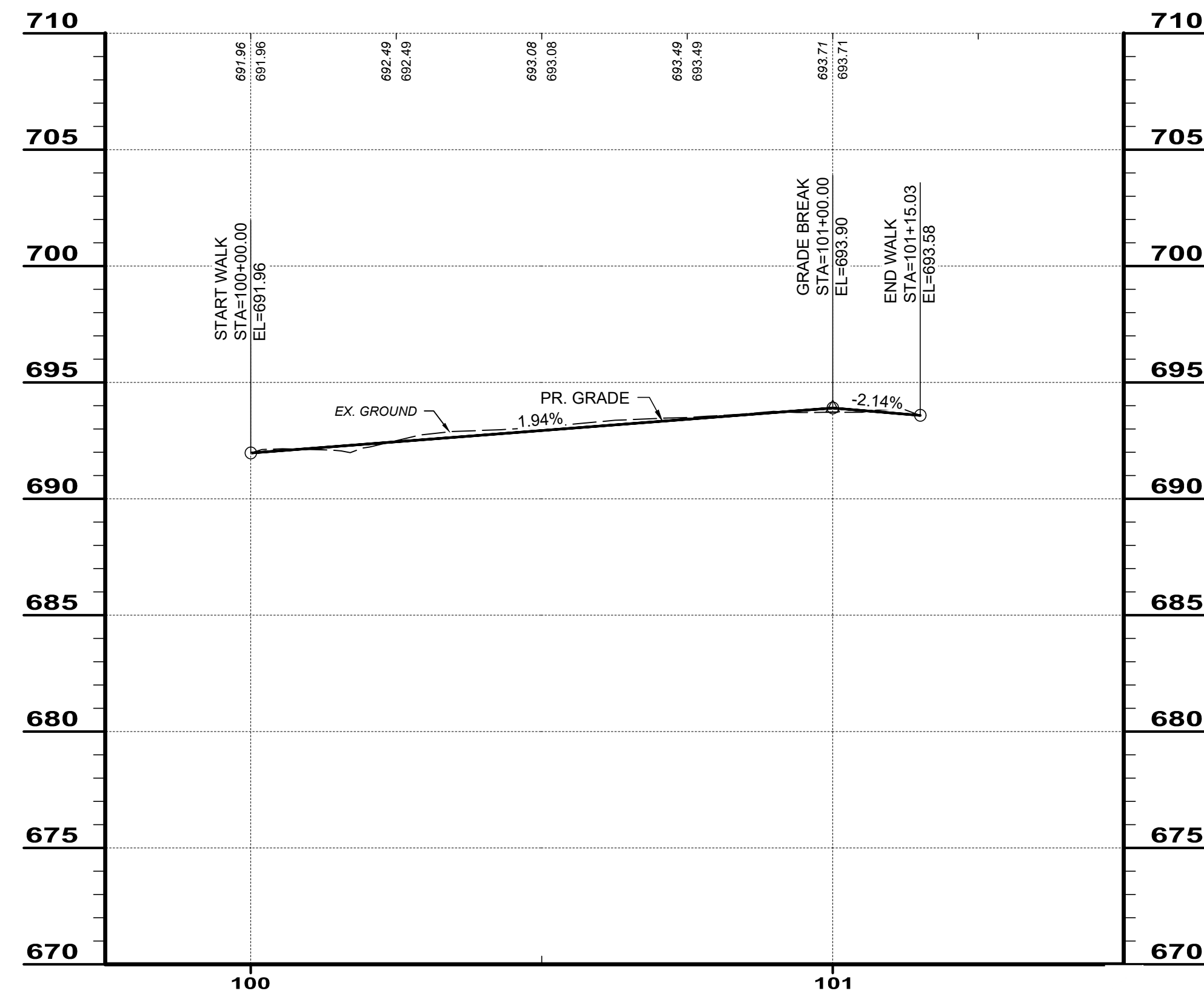


**NOTES:**

- FOR SIDEWALK ALIGNMENT COORDINATE TABLE, SEE SHEET 20.

**LEGEND:**

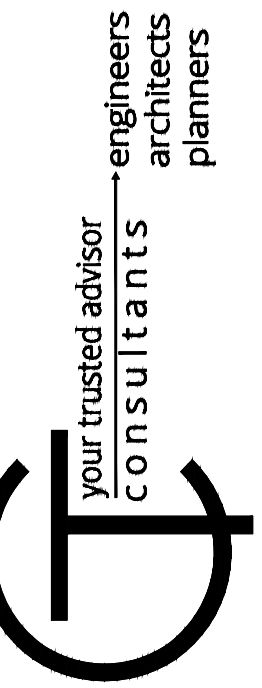
- CR-X = CURB RAMP
- BR-X = BRIDGE
- DR-X = DRIVEWAY
- P-X = PAVEMENT



**PROFILE - SIDEWALK 2**



**BID SET**



SIDEWALK #1 - ALIGNMENT COORDINATE TABLE						
LINE #	BEARING	LENGTH	START STA	START N/E	END STA	END N/E
L1	N88°15'38.52"E	140.71'	0+00.00	N=776336.12, E=2359393.89	1+40.71	N=776340.40, E=2359534.53
L2	N88°15'38.52"E	289.94'	2+00.45	N=776342.21, E=2359594.24	4+90.39	N=776351.01, E=2359884.05
L3	N88°15'38.52"E	117.44'	5+30.56	N=776352.23, E=2359924.20	6+48.00	N=776355.79, E=2360041.59
L4	N88°15'38.52"E	71.00'	6+48.00	N=776355.79, E=2360041.59	7+19.00	N=776357.95, E=2360112.56
L5	N88°15'38.52"E	65.98'	7+19.00	N=776357.95, E=2360112.56	7+84.98	N=776359.95, E=2360178.50
L6	N85°23'57.00"E	30.04'	7+84.98	N=776359.95, E=2360178.50	8+15.01	N=776362.36, E=2360208.44
L7	N88°13'03.82"E	5.00'	8+15.01	N=776362.36, E=2360208.44	8+20.01	N=776362.52, E=2360213.44
L8	N88°15'38.52"E	134.48'	12+50.82	N=776367.08, E=2360643.97	13+85.30	N=776371.16, E=2360778.39
L9	N75°07'36.04"E	30.81'	13+85.30	N=776371.16, E=2360778.39	14+16.11	N=776379.07, E=2360808.17
L10	N88°15'38.52"E	212.10'	14+16.11	N=776379.07, E=2360808.17	16+28.21	N=776385.51, E=2361020.17
L11	N88°15'38.52"E	176.68'	16+60.21	N=776386.48, E=2361052.16	18+36.89	N=776391.84, E=2361228.76
L12	N88°15'38.52"E	800.83'	18+62.44	N=776392.62, E=2361254.30	26+63.27	N=776416.92, E=2362054.76
L13	N79°03'14.12"E	1270.75'	26+63.27	N=776416.92, E=2362054.76	39+34.01	N=776658.22, E=2363302.38
L14	N79°03'14.12"E	80.15'	39+34.01	N=776658.22, E=2363302.38	40+14.16	N=776673.44, E=2363381.07
L15	N79°03'14.12"E	719.92'	40+14.16	N=776673.44, E=2363381.07	47+34.08	N=776810.14, E=2364087.89
L16	N81°26'23.52"E	30.03'	47+34.08	N=776810.14, E=2364087.89	47+64.11	N=776814.61, E=2364117.59
L17	N79°03'14.12"E	196.05'	47+64.11	N=776814.61, E=2364117.59	49+60.16	N=776851.84, E=2364310.07

SIDEWALK #2 - LINE & CURVE COORDINATE TABLE									
NO.	DELTA	RADIUS	LENGTH	LINE/CHD BRG	CHD DIST	BEGIN STA	START N/E	END STA	END N/E
C1	81°43'49.23"	30.00'	42.79'	N38°11'05.80"E	39.26'	STA. 100+72.41	776785.5610,2364356.8014	STA. 101+15.20	776816.4176,2364381.0701
L18			72.41'	N2°40'48.81"W		STA. 100+00.00	776713.2351,2364360.1872	STA. 100+72.41	776785.5610,2364356.8014
L19			3.10'	N79°03'00.42"E		STA. 101+15.20	776816.4176,2364381.0701	STA. 101+18.30	776817.0070,2364384.1163

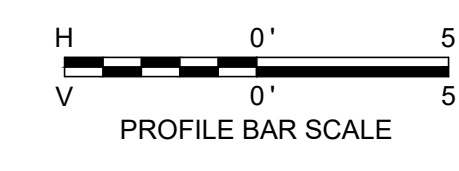
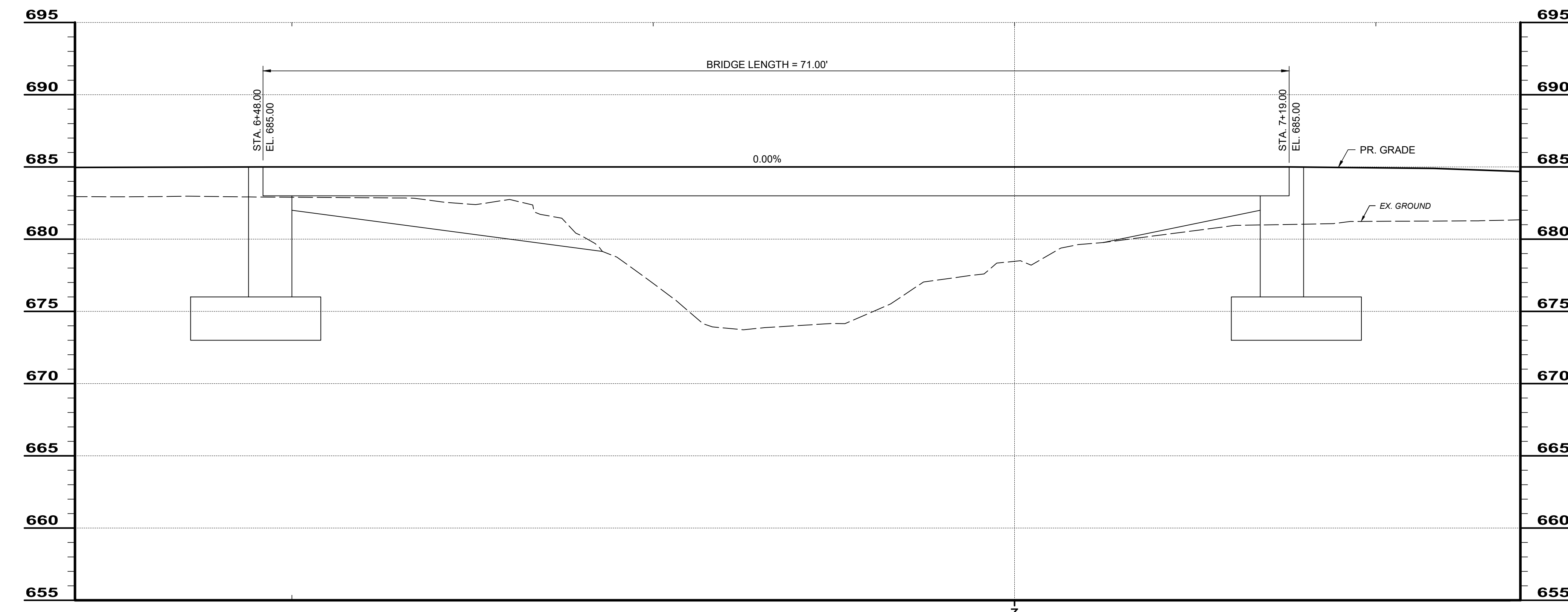
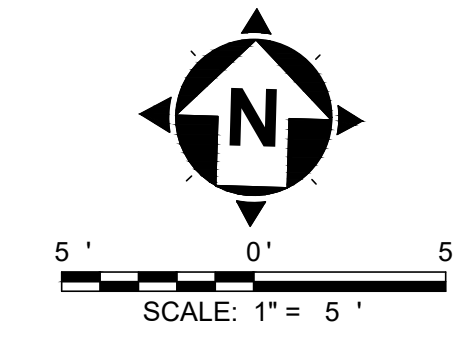
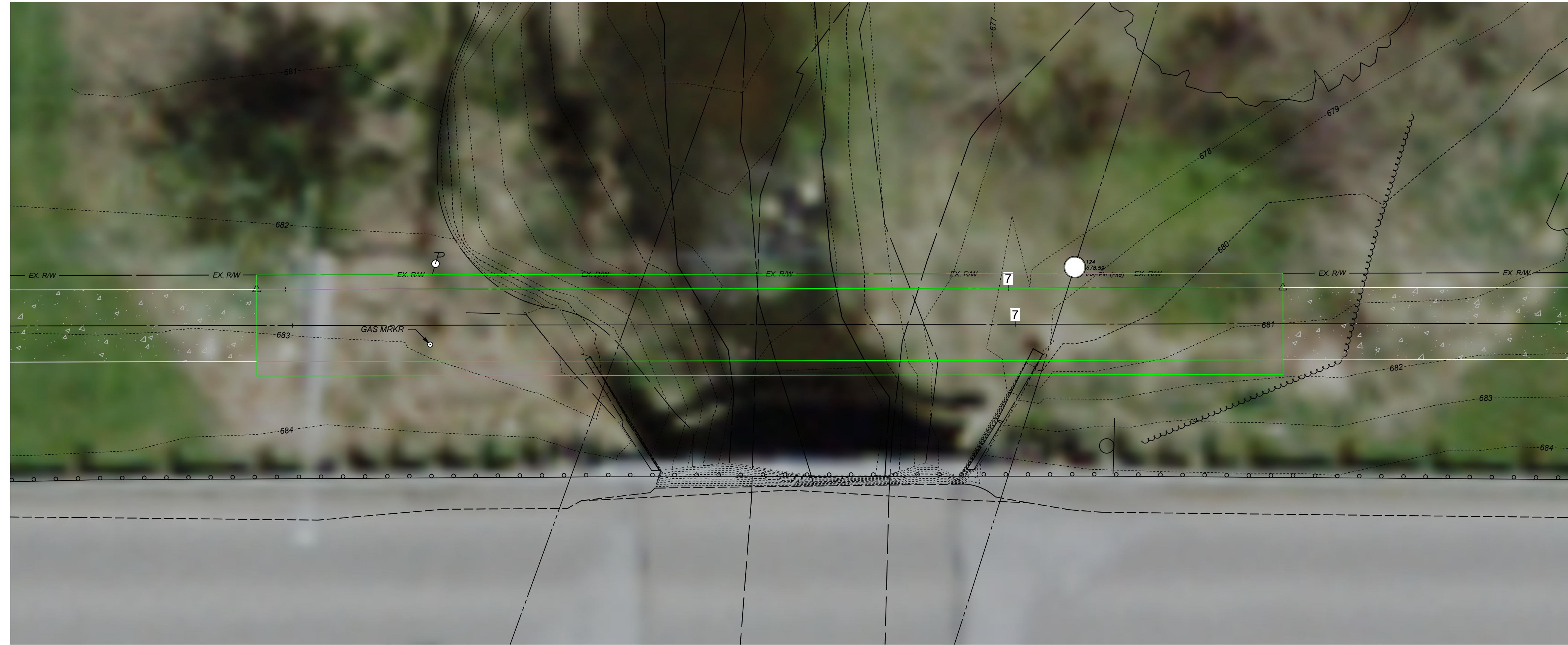
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SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**SIDEWALK COORDINATE TABLE**

PROJECT NO.	<b>241143</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>CRD-TABL</b>
SHEET	<b>20</b>
OF	<b>25</b>





**PROFILE - BRIDGE NO. 1**

**BID SET**

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**CONSULTANTS**  
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 architects  
 planners

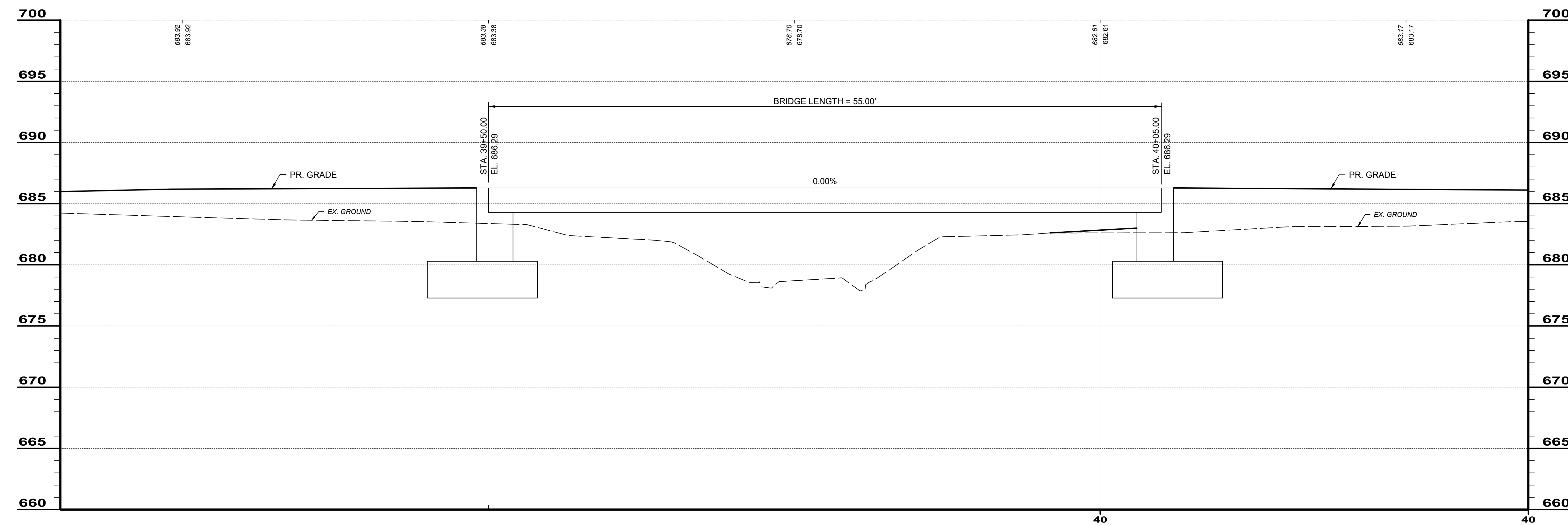
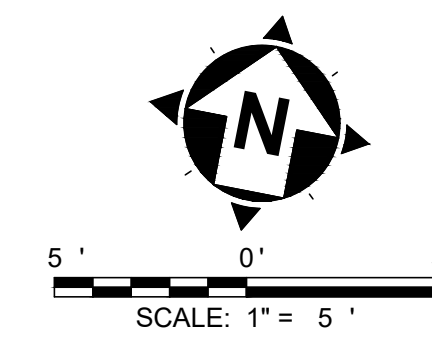
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ISSUE DATE: 8/6/24	8/6/24			
SCALE: AS SHOWN				
DESIGNED BY: EJT				
DRAWN BY: BKU				
CHECKED BY: EH				

**MIDDLE RIDGE ROAD  
 SIDEWALK IMPROVEMENTS  
 VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**PEDESTRIAN BRIDGE NO. 1  
 PLAN & PROFILE**

PROJECT NO. <b>241143</b>	
DISCIPLINE <b>CIVIL</b>	
SHEET NAME <b>BRDG1-P&amp;P</b>	
SHEET <b>21</b>	OF <b>25</b>





**PROFILE - BRIDGE NO. 2**

**BID SET**

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**CONSULTANTS**  
 engineers  
 architects  
 planners

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ISSUE DATE:	8/6/24			
SCALE:	AS SHOWN			
DESIGNED BY:	EJT			
DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
 SIDEWALK IMPROVEMENTS  
 VILLAGE OF MADISON, LAKE COUNTY, OHIO**

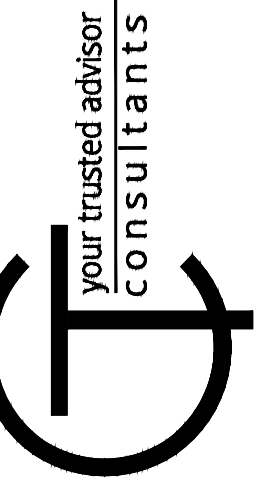
**PEDESTRIAN BRIDGE NO. 2  
 PLAN & PROFILE**

PROJECT NO.	
241143	
DISCIPLINE	
CIVIL	
SHEET NAME	
BRDG2-P&P	
SHEET	OF
22	25



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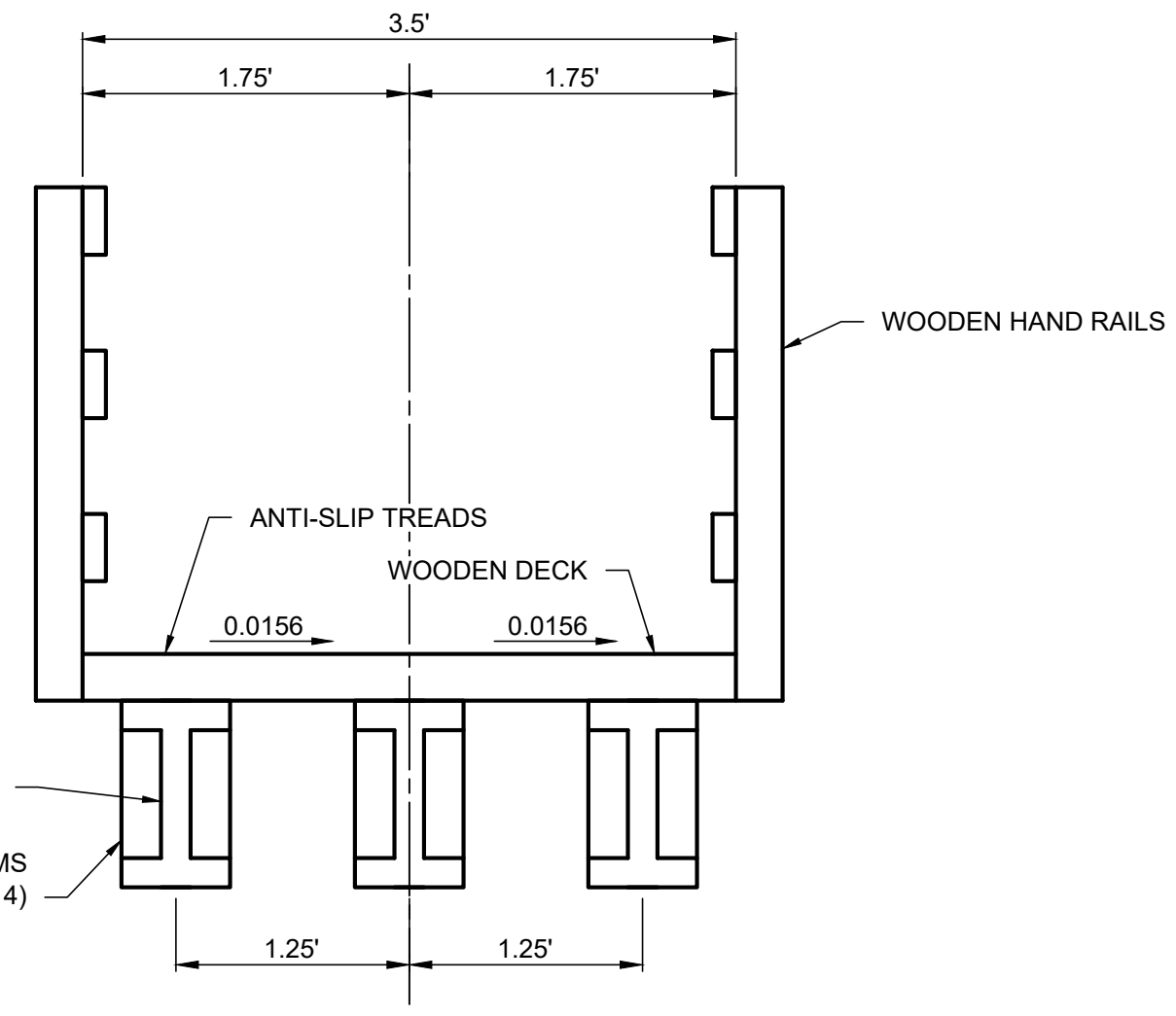


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DRAWN BY:	BKU			
CHECKED BY:	EH			

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**BRIDGE DETAILS**

PROJECT NO.	
<b>241 143</b>	
DISCIPLINE	
<b>CIVIL</b>	
SHEET NAME	
<b>BRDG-DET1</b>	
SHEET	OF
<b>23</b>	<b>25</b>



**BRIDGE TYPICAL SECTION**  
NTS

**BRIDGE GENERAL NOTES:**

1. THE CONTRACTOR SHALL DESIGN AND CONSTRUCT A PEDESTRIAN BRIDGE AT THE TWO LOCATIONS SHOWN IN THE PLANS. THE BRIDGE SHALL CLEAR THE CREEK. NO PIERS ARE ALLOWED. THE LOW STEEL OR LOW WOOD OF THE PEDESTRIAN BRIDGE SHALL BE AT OR ABOVE THE LOW STEEL OF THE EXISTING DOWNSTREAM BRIDGE.
2. THE CONTRACTOR SHALL DESIGN AND CONSTRUCT THE ABUTMENTS FOR EACH PEDESTRIAN BRIDGE. THE ABUTMENTS SHALL BE MADE OF REINFORCED CONCRETE AND SHALL BE 9 FEET WIDE.
3. THE CONTRACTOR SHALL OBTAIN SOIL BORINGS AT EACH ABUTMENT LOCATION AND BASE THE ABUTMENT DESIGN ON THE GEOTECHNICAL PARAMETERS OF THE SOIL.
4. THE PEDESTRIAN BRIDGES SHALL HAVE A STEEL OR WOODEN SUPERSTRUCTURE, A WOODEN DECK AND WOODEN RAILS. ALTHOUGH STEEL I-BEAMS ARE PREFERRED, THE CONTRACTOR IS TO DETERMINE THE COMPOSITION OF THE SUPERSTRUCTURE BASED ON AVAILABILITY OF MATERIALS.
5. THE WOODEN DECK SHALL HAVE ANTI-SLIP TREADS.
6. CROSS SLOPE DIRECTION OF BRIDGE DECK SHALL MATCH CROSS SLOPE DIRECTION OF ADJACENT SIDEWALK.
7. SHOP DRAWINGS FOR THE PEDESTRIAN BRIDGES AND THE ABUTMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
8. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 530 SPECIAL - STRUCTURE, MISC.: PEDESTRIAN BRIDGE DESIGN AND CONSTRUCTION, COMPLETE.



**SITE DATA:**

**PROJECT DESCRIPTION (PURPOSE AND TYPES OF SOIL DISTURBING ACTIVITIES):**

THIS PROJECT INVOLVES THE CONSTRUCTION OF APPROXIMATELY 5,100 LF OF SIDEWALK AND TWO PEDESTRIAN BRIDGES ALONG THE NORTH SIDE OF MIDDLE RIDGE ROAD AND THE EAST SIDE OF HUBBARD ROAD IN MADISON, OHIO.

SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING, INSTALLING PERIMETER AND OTHER EROSION AND SEDIMENT CONTROLS, CONSTRUCTION OF SIDEWALK AND PEDESTRIAN BRIDGES, AND SITE RESTORATION.

**TOTAL DISTURBED AREA:** 2.50 AC.

**EXISTING DRAINAGE/RECEIVING WATER:** ARCOLA CREEK AND A TRIBUTARY OF ARCOLA CREEK.

**EROSION CONTROL DEVICES:** CONSTRUCTION SEEDING, MULCHING, PERIMETER FILTER FABRIC FENCE AND STRAW WATTLES/FILTER SOCKS.

**SCHEDULE:** THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE CITY AND DESIGNER/ENGINEER. EROSION AND SEDIMENTATION BMPs SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THIS SCHEDULE.

**OWNER/SITE CONTACT:** VILLAGE OF MADISON  
33 EAST MAIN STREET  
MADISON, OH 44057  
PHONE: 440-428-7526  
CONTACT: DWANE BAILEY  
VILLAGE ADMINISTRATOR  
EMAIL: INFO@MADISONVILLAGE.ORG

**PLAN DESIGNER:** CT CONSULTANTS  
8150 STERLING COURT  
MENTOR, OHIO 44060  
OFFICE: 440-530-2387  
CONTACT: ERIC HEIBACH, P.E.  
EMAIL: EHEIBACH@CTCONSULTANTS.COM

OHIO EPA GENERAL PERMIT NO. OHC000005 CONSTRUCTION EROSION AND SEDIMENT CONTROL

PLAN HAS BEEN ASSIGNED NPDES PERMIT NUMBER(S):

\*SHALL BE UPDATED ONCE DOCUMENTATION IS AVAILABLE\*

**SEQUENCE OF CONSTRUCTION:**

- 1. INSTALL PERIMETER FILTER FABRIC FENCE/FILTER SOCK WITHIN CONSTRUCTION/WORK LIMITS.
- 2. CLEAR & GRUB SITE, REMOVE TREES AND STUMPS WITHIN CONSTRUCTION/WORK LIMITS. TEMPORARY SEED/STABILIZE AS AREAS ARE DENUDED OR AS NEEDED.
- 3. ROUGH/LINEAR GRADE TRAIL.
- 4. CONSTRUCT TRAIL/PERMANENT STABILIZE WORK AREA AS NEEDED.
- 5. FINAL GRADE/STABILIZE AREAS WITHIN CONSTRUCTION/WORK LIMITS.
- 6. REMOVE PERIMETER FILTER FABRIC FENCE/STRAW WATTLE/FILTER SOCK. RESEED ANY AREA AS NEEDED TO ESTABLISH VEGETATION GROWTH.

**SITE AREA:**

**ESTIMATE OF IMPERVIOUS AREA AND PERCENT IMPERVIOUSNESS CREATED BY CONSTRUCTION:**

**ARCOLA CREEK WATERSHED:**

IMPERVIOUS AREA = INCREASE OF 0.60 ACRES

**EROSION CONTROL NOTES:**

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION AND SEDIMENT CONTROL REGULATIONS.

DIRECT DISCHARGE OF SEDIMENT LADEN WATER INTO ARCOLA CREEK OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL. OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN IN A 24 HOUR PERIOD. PROVIDE NAME OF INSPECTOR, MAJOR OBSERVATIONS DATE OF INSPECTION, AND CORRECTIVE ACTIONS TAKEN.

SILT FENCE SHALL BE IMPLEMENTED WITHIN 7 DAYS OF THE START OF CONSTRUCTION AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE STABILIZED.

THE CONTRACTOR SHALL USE EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT MOVEMENT INTO AREAS DESIGNATED AS WETLANDS OR STREAMS.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGES INTO STORMWATER RUNOFF.

**EROSION AND SEDIMENT CONTROLS:**

**TEMPORARY STABILIZATION:**

TOP SOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY SEED OR MULCH NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED SHALL BE APPLIED AS PER THE TEMPORARY SEEDING SPECIFICATIONS. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING STONE SUB-BASE UNTIL PAVEMENT CAN BE APPLIED.

**PERMANENT STABILIZATION:**

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 7 DAY AFTER THE LAST CONSTRUCTION ACTIVITY. THE PERMANENT SEED MIX SHALL BE PER THE PERMANENT SEEDING SPECIFICATIONS.

TABLE 1: PERMANENT STABILIZATION. Table with 2 columns: AREA REQUIRING PERMANENT STABILIZATION, TIME FRAME TO APPLY EROSION CONTROLS. Rows include: ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE, ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE, OTHER AREAS AT FINAL GRADE.

TABLE 2: TEMPORARY STABILIZATION. Table with 2 columns: AREA REQUIRING TEMPORARY STABILIZATION, TIME FRAME TO APPLY EROSION CONTROLS. Rows include: ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE, DISTURBED AREAS THAT WILL BE IDLE OVER WINTER.

**WASTE MATERIALS:**

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER RENTED FROM A LICENSED SOLID WASTE MANAGEMENT COMPANY. THE DUMPSTER WILL MEET ALL LOCAL, CITY, AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY, AND TRASH WILL BE HAULED OFF-SITE TO AN APPROVED DISPOSAL SITE. NO CONSTRUCTION WASTE MATERIALS WILL BE BURNED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE OFFICE TRAILER. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

**HAZARDOUS WASTE:**

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

**SANITARY WASTE:**

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.

**OFFSITE VEHICLE TRACKING:**

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

**EROSION CONTROL PLAN:**

- 1. THE PERMITTEE SHALL TAKE ANY AND ALL APPROPRIATE MEASURES TO LIMIT SOIL EROSION PRIOR TO, DURING, AND AFTER CONSTRUCTION. AS SUCH, THE PERMITTED SHALL BE FULLY ACCOUNTABLE TO THE OHIO EPA, THE SOIL CONSERVATION SERVICE, AND ANY OTHER APPROPRIATE AGENCIES FOR ANY REGULATIONS RELATED TO THE PROTECTION AND CONSERVATION OF SOILS THAT ARE AFFECTED BY THIS PERMITTED WORK.
- 2. THE PERMITTEE SHALL TAKE ANY AND ALL APPROPRIATE MEASURES TO LIMIT SOIL EROSION PRIOR TO, DURING, AND AFTER CONSTRUCTION. AS SUCH, THE PERMITTED SHALL BE FULLY ACCOUNTABLE TO THE OHIO EPA, THE SOIL CONSERVATION SERVICE, AND ANY OTHER APPROPRIATE AGENCIES FOR ANY REGULATIONS RELATED TO THE PROTECTION AND CONSERVATION OF SOILS THAT ARE AFFECTED BY THIS PERMITTED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING AN EROSION CONTROL PLAN TO THE CITY FOR ALL WORK PRIOR TO THE INITIATION OF ANY CONSTRUCTION WORK. THE PLAN SHALL BE SUBMITTED WITHIN TWO (2) WEEKS FOLLOWING THE NOTICE OF AWARD OF THE CONTRACT. ONCE APPROVED, THE PLAN SHALL BE USED BY THE CONTRACTOR THROUGHOUT THE PROJECT. ANY DEVIATIONS FROM THE APPROVED PLAN WILL NEED TO BE SUBMITTED TO THE CITY THREE (3) WEEKS PRIOR TO THE CHANGE FOR THE CITY'S CONSIDERATION.
- 3. THE EROSION CONTROL PLAN SHALL INCLUDE, AT MINIMUM, THE LOCATION OF THE STAGING AND STOCKPILE SITES, AND THE TYPE AND LOCATION OF THE EROSION CONTROL DEVICES.
- 4. THE FOLLOWING SHALL BE USED AS A GUIDE TO DEVELOP THE EROSION CONTROL PLAN.
  - 4.1. STAGING SITE - IDENTIFY THE LOCATION OF THE POTENTIAL SITES. MAINTAIN A MINIMUM SEPARATION FROM ANY STREAMS, CREEKS, OR OTHER OPEN BODIES OF WATER.
  - 4.2. STAGING SITE - IDENTIFY THE LOCATION OF THE POTENTIAL SITES. MAINTAIN A MINIMUM SEPARATION FROM ANY STREAMS, CREEKS, OR OTHER OPEN BODIES OF WATER. EROSION CONTROL DEVICES - IDENTIFY THE TYPES OF EROSION CONTROL DEVICES TO BE USED AND INDICATE TIMING AND METHOD OF PERMANENT STABILIZATION AND REVEGETATION. EROSION CONTROL DEVICES MAY INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCE, ROCK CHECK DAMS, INLET PROTECTION, CONSTRUCTION FENCE, ECT.
  - 5. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS AND INFORMATION.

**MAINTENANCE/INSPECTION PROCEDURES:**

**EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PROCEDURES:**

THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

LESS THAN 50% OF THE SITE WILL BE DENUDED AT ONE TIME.

ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.

SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.

THE SITE SUPERINTENDENT WILL SELECT INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

**NON-STORMWATER DISCHARGES:**

IT IS EXPECTED THAT THE FOLLOWING NON-STORMWATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD: WATER FROM WATER LINE FLUSHINGS. PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

**VILLAGE OF MADISON GENERAL EROSION & SEDIMENT CONTROL NOTES:**

- 1. EROSION CONTROL SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED ON THE PLANS OR ORDERED BY THE CITY ENGINEER DURING THE LIFE OF THE CONTRACT TO CONTROL SOIL, EROSION, AND SEDIMENTATION THROUGH USE OF EROSION CONTROL BEST MANAGEMENT PRACTICE (BMP'S).
- 2. TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH ARE DETAILED ON THE PLANS, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORK OPERATIONS. CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN DURING THE DESIGN STAGE THAT REQUIRE ADDITIONAL OR MODIFIED TEMPORARY OR PERMANENT BMP'S SHALL BE DESIGNED BY THE DEVELOPER'S ENGINEER AND APPROVED BY THE CITY ENGINEER AND THEN REFLECTED ON THE EROSION AND SEDIMENT CONTROL PLAN.
- 3. SEDIMENT PONDS, SEDIMENT TRAPS, AND PERIMETER CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN (7) DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL DISTURBED AREAS ARE RE-ESTABLISHED WITH TEMPORARY VEGETATION. NO SEDIMENT CONTROLS SHALL BE PLACED IN A STREAM.
- 4. TRENCH DEWATERING OR DEWATERING GROUND WATER, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PUT, FILTER BAG, OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATER SHALL NOT BE DISCHARGED TO STREAMS OR THE STORM SEWER SYSTEM.
- 5. CEMENT WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. ALL WASH WATER SHALL BE COLLECTED IN AN APPROVED, DESIGNATED LOCATION.
- 6. CONTAINERS SHALL BE PROVIDED FOR COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS, AND ANY HAZARDOUS MATERIALS TO BE USED ON SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.
- 7. THESE NOTES AND DRAWINGS ARE INTENDED TO SERVE AS BASIC GUIDELINES. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL.
- 8. ADDITIONAL EROSION CONTROL BMP'S MAY BE MANDATED BY THE CITY AT ANY TIME DURING THIS PROJECT AS UNFORESEEN SITUATIONS MAY ARISE THAT WARRANT FURTHER EROSION AND SEDIMENT CONTROL PRACTICES.
- 9. LIMITS OF CLEARING AND GRADING SHALL BE CLEARLY MARKED ON SITE WITH SIGNAGE, FLAGGING, AND/OR CONSTRUCTION FENCING. THE SUBCONTRACTOR SHALL LIMIT THE SURFACE AREA OR ERODIBLE EARTH MATERIAL EXPOSED BY EXCAVATION, BORROW, AND FILL OPERATIONS AND PROVIDE IMMEDIATE PERMANENT OR TEMPORARY CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS, WETLANDS, OR OTHER AREAS OF WATER IMPOUNDMENT.
- 10. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL INGRESS AND EGRESS LOCATIONS TO ELIMINATE OFF-SITE VEHICLE TRACKING OF SEDIMENTS. SEDIMENTS SHALL BE REMOVED FROM ROADWAYS AT LEAST DAILY, OR MORE OFTEN IF REQUESTED BY THE CITY ENGINEER.
- 11. TEMPORARY SEEDING
  - 11.1. SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY SEEDING AND STRAW MULCHING ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN ACCORDANCE WITH SPECIFICATIONS OF THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL.
  - 11.2. ALL DETENTION PONDS, RETENTION PONDS, WATER QUALITY STRUCTURES, SEDIMENT PONDS, SEDIMENT TRAPS, EARTHEN DIVERSIONS, OR EMBANKMENTS SHALL BE SEEDED AND STRAW MULCHED WITHIN SEVEN (7) DAYS OF COMPLETED CONSTRUCTION.
  - 11.3. DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR A PERIOD OF TWENTY ONE (21) DAYS OR LONGER SHALL BE STABILIZED WITH SEEDING AND STRAW MULCHING, OR OTHER APPROPRIATE MEANS, WITHIN SEVEN (7) DAYS AFTER EARTH-MOVING CEASES. PERMANENT SOILS STABILIZATION SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.
  - 11.4. STABILIZE AREAS WITHIN FIFTY (50) FEET OF ANY STREAM OR WETLAND WITHIN TWO (2) DAYS ON ALL INACTIVE DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR FOURTEEN (14) DAYS OR LONGER.
  - 11.5. SEEDED AREAS SHALL BE INSPECTED AND WHERE SEED HAS NOT PRODUCES 80% COVER SHALL BE RE-SEEDED AS NECESSARY BY THE CONTRACTOR AREAS. AREAS SHALL BE STABILIZED WITH STRAW MULCH WHEN SUB-CONDITIONS PROHIBIT SEEDING.
  - 11.6. TEMPORARY SEEDING SHALL BE DONE IN ACCORDANCE WITH CITY OF COLUMBUS SPECIFICATION ITEM 207.
- 12. MAINTENANCE
  - 12.1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL MAINTENANCE AND INSPECTIONS ON A WEEKLY BASIS AND AFTER ALL RAIN EVENTS PRODUCING 1/2" OF RAIN PER 24 HOURS. A WRITTEN RECORD DOCUMENTING THE RESULTS OF THESE INSPECTIONS MUST BE CREATED AND MAINTAINED.
  - 12.2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL SUBCONTRACTORS COMPLY WITH THE SEDIMENT AND EROSION CONTROL PLAN.

BID SET

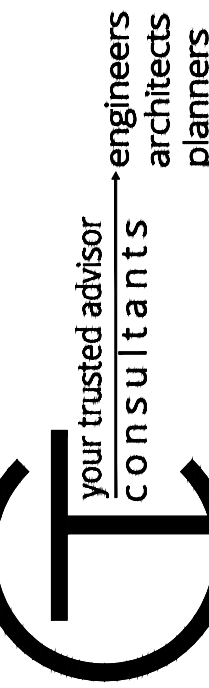


Table with columns: ISSUED FOR, BID SET, ISSUE DATE, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY, NO, REVISION, DATE.

MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO  
SEDIMENT & EROSION CONTROL  
NOTES & DETAILS - 1

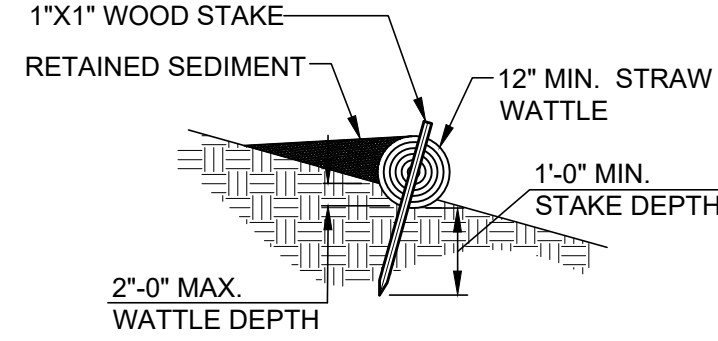
Table with columns: PROJECT NO., DISCIPLINE, SHEET NAME, SHEET, OF.



**EROSION & SEDIMENTATION CONTROL NOTES:**

1. THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED IN THIS PLAN SHALL BE INSTALLED SEVEN (7) DAYS PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES. SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE PROJECT SITE BY INSTALLING AND MAINTAINING SILT FENCE. STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION FROM ALL AREAS REMAINING DISTURBED FOR MORE THAN FOURTEEN (14) DAYS.
2. THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORMWATER RUNOFF OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTE AND UNUSED BUILDING MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL, IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL STATE OR LOCAL REGULATIONS REGARDING WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEMS.
3. PUBLIC OR PRIVATE ROADWAYS SHALL BE CLEARED OF ACCUMULATED SEDIMENT DAILY OR ON AN AS NEEDED BASIS. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.
4. ALL ONSITE STORM DRAIN INLETS SHALL BE PROTECTED AGAINST SEDIMENTATION WITH FILTER FABRIC OR EQUIVALENT BARRIERS AS SHOWN ON THESE PLANS. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY REQUIRE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
5. THIS EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED IN THE PLAN.
6. DURING THE PERIODS OF CONSTRUCTION ACTIVITY, ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, IF REQUIRED, WITH THE OWNER. MAINTENANCE SHALL BE IN ACCORDANCE WITH THE CITY OF SUNBURY, OHIO ENVIRONMENTAL PROTECTION AGENCY (EPA) GENERAL CONSTRUCTION PERMIT AND THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) RAINWATER AND LAND DEVELOPMENT CURRENT EDITION.
7. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE CITY OF SUNBURY, OHIO ENVIRONMENTAL PROTECTION AGENCY (EPA) GENERAL CONSTRUCTION PERMIT AND THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) RAINWATER AND LAND DEVELOPMENT CURRENT EDITION.
8. EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS POSSIBLE. ALL REASONABLE ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND.
9. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED IN ACCORDANCE WITH THE CONDITIONS OF THE APPLICABLE NPDES PERMIT.
10. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
11. THIS PLAN MUST BE POSTED ON SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.
12. THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.
13. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENTATION RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE AND INSPECTION IN ACCORDANCE WITH THE NPDES GENERAL PERMIT FROM THE STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.
14. PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE CITY OF SUNBURY, OHIO EPA AND THE DESIGNER/ENGINEER.
15. IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF THE BARRIER (SILT FENCE, STRAW WATTLES) DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN A CERTAIN AREA. HOWEVER, THE BARRIER SHALL BE IN PLACE IN THE EVENING OR DURING ANY INCLEMENT WEATHER.
16. SEEDING HAS BEEN ASSUMED TO BE 4'-0" OUTSIDE THE GRADING LIMITS. ALL AREAS NOT DESIGNATED TO BE SEEDDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.
17. THE USE OF STRAW WATTLES HAS BEEN PROVEN TO BE A VERSATILE AND EFFECTIVE EROSION AND SEDIMENT CONTROL BMP. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE IN A LINEAR INSTALLATION. STRAW WATTLES MUST BE A MINIMUM OF 12 INCHES IN DIAMETER. COMPOST FILTER SOCK MAY BE SUBSTITUTED FOR SILT FENCE.
18. THE EROSION AND SEDIMENT PLAN SHALL INCORPORATE MEASURES WHICH CONTROL THE FLOW OF RUNOFF FROM DISTURBED AREAS SO AS TO PREVENT EROSION FROM OCCURRING. SUCH PRACTICES INCLUDE ROCK CHECK DAMS, PIPE SLOPE DRAINS, DIVERSIONS TO DIRECT FLOW AWAY FROM EXPOSED SOILS AND PROTECTIVE GRADING PRACTICES. THESE PRACTICES SHALL DIVERT RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHERE PRACTICABLE.
19. ALL SEDIMENT CONTROL PRACTICES MUST BE CAPABLE OF PONDING RUNOFF IN ORDER TO BE CONSIDERED FUNCTIONAL. EARTH DIVERSION DIKES OR CHANNELS ALONE ARE NOT CONSIDERED A SEDIMENT CONTROL PRACTICE UNLESS THESE ARE USED IN CONJUNCTION WITH A SEDIMENT SETTLING POND.
20. SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT THE COURSE OF EARTH DISTURBANCE ACTIVITIES. PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED PRIOR TO GRADING AND WITHIN SEVEN (7) DAYS FROM THE START OF CONSTRUCTION ACTIVITIES. THEY SHALL CONTINUE TO BE FUNCTIONAL UNTIL THE UP SLOPE PROJECT AREA IS REESTABLISHED. AS CONSTRUCTION PROGRESSES AND THE TOPOGRAPHY IS ALTERED, APPROPRIATE CONTROLS MUST BE CONSTRUCTED OR EXISTING CONTROLS ALTERED TO ADDRESS THE CHANGING DRAINAGE PATTERNS.
21. SHEET FLOW RUNOFF FROM DENUDEED AREAS SHALL BE INTERCEPTED BY PERIMETER FILTER FABRIC FENCE TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED VIA SHEET FLOW. WHERE INTENDED TO PROVIDE SEDIMENT CONTROL, PERIMETER FILTER FABRIC FENCE SHALL BE PLACED ON A LEVEL CONTOUR DOWNSLOPE OF THE DISTURBED AREA.

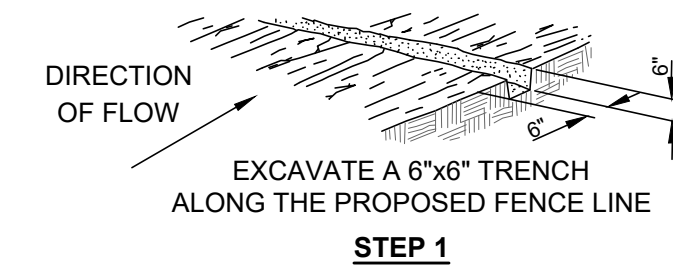
22. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL MINIMIZE SEDIMENT LADEN WATER FROM ENTERING ACTIVE STORM DRAINS SYSTEMS. ALL INLETS RECEIVING RUNOFF FROM DRAINAGE AREAS OF ONE OR MORE ACRES WILL REQUIRE A SEDIMENT SETTLING POND.
23. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF SUNBURY AND/OR THE OHIO EPA IN ORDER TO COMPLY WITH THE APPLICABLE LAWS AND REGULATIONS.
24. EXCEPT AS PREVENTED BY INCLEMENT WEATHER CONDITIONS, ALL DISTURBED AREAS TO REMAIN INACTIVE FOR MORE THAN THIRTY (30) DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING OR ANY OTHER EQUIVALENT EROSION CONTROL MEASURE WITHIN SEVEN (7) DAYS. PERMANENT SOIL STABILIZATION SHALL BE PROVIDED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS ESTABLISHED.
25. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENT CONTROL FEATURES USED ON THIS PROJECT. THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF (0.50) INCH OF RAIN PER TWENTY-FOUR (24) HOUR PERIOD. THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE ENTIRE SITE IS TEMPORARY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WEATHER CONDITIONS (SNOW, ICE OR FROZEN GROUNDS). RECORDS OF THESE INSPECTIONS SHALL BE KEPT AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUESTED. ANY SEDIMENT OR DEBRIS WHICH HAS REDUCED THE EFFICIENCY OF A STRUCTURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE THE STRUCTURE AT NO ADDITIONAL COST TO THE OWNER.
26. THIS EROSION AND SEDIMENT CONTROL PLAN IS TO BE USED AS A BASE PLAN FOR THE CONTRACTOR AND IF IT IS REQUIRED TO BE MODIFIED THE CONTRACTOR SHALL NOTIFY THE DESIGNER/ENGINEER WITH THE CHANGES BY SUBMITTING A REVISED EROSION AND SEDIMENT CONTROL PLAN IDENTIFYING ALL REVISION REQUIRED AS A RESULT OF THE WORK. REVISIONS SHALL INCLUDE ALL PROPOSED BMPS NOT PROPOSED ON THIS PLAN OR CONSTRUCTION DOCUMENTS. THE PLAN SHALL BE UPDATE AS CONTROLS ARE PLACED IN THE FIELD.
27. THE CONTRACTOR MAY INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS ON A ROLLING BASIS AS CONSTRUCTION PROCEEDS. NO EARTH DISTURBANCE MAY OCCUR IN AN AREA UNLESS THE BMP ASSOCIATED WITH THE TRIBUTARY AREA IS IN PLACE. THE CONTRACTOR SHALL APPRISE THE CITY OF SUNBURY AND DESIGNER/ENGINEER OF THE ANTICIPATED INSTALLATION RANGE, DATE OF INSTALLED CONTROLS AND LOG THE ACTUAL PLACEMENT RANGE AND DATE ON THE PLAN.
28. THE SEDIMENT AND EROSION CONTROL PLAN AS HEREIN DELINEATED IS SUBJECT TO ADJUSTMENT TO ENSURE EROSION CONTROL MEASURES ARE PROPERLY COORDINATED WITH SUCCESSIVE CONSTRUCTION STAGES. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO MINIMIZE THE TOTAL AMOUNT OF AREA DISTURBED AT ONE TIME.
29. WATER MAY BE USED FOR DUST CONTROL. USED OIL MAY NOT BE USED FOR DUST CONTROL.
30. ALL INSPECTION RECORDS SHALL BE RETAINED FOR AT LEAST THREE (3) YEARS AFTER COMPLETION OF CONSTRUCTION ACTIVITIES.
31. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.  
  
THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDE STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.
32. SHOULD THE INSPECTION INDICATE THAT ANY BMP'S REQUIRE MAINTENANCE OR REPAIR, THE CONTRACTOR SHALL REPAIR NON-SEDIMENT POND BMP'S WITHIN THREE (3) DAYS OF INSPECTION AND REPAIR OR CLEAN OUT SEDIMENT PONDS WITHIN FIVE (5) DAYS OF INSPECTION.
33. IF THE INSPECTION INDICATES THAT A BMP IS NOT MEETING ITS INTENDED FUNCTION, THE CONTRACTOR SHALL INSTALL A NEW BMP WITHIN THREE (3) DAYS OF INSPECTION.
34. SHOULD THE INSPECTION INDICATE ANY MISSING BMP'S REQUIRED TO BE INSTALLED UNDER THIS PLAN, THE CONTRACTOR SHALL INSTALL ANY MISSING BMP'S WITHIN FIVE (5) DAYS OF INSPECTION.
35. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE OHIO EPA GENERAL NPDES PERMIT FOR CONSTRUCTION ACTIVITY AND THE CONSTRUCTION ACTIVITY EROSION AND SEDIMENT CONTROL REQUIREMENTS OF THE CITY OF COLUMBUS STORMWATER DRAINAGE MANUAL. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER ANY GENERAL NPDES PERMIT AND/OR OBTAINING ANY INDIVIDUAL NPDES PERMIT FOR CONSTRUCTION ACTIVITY UNDER THIS PLAN.
36. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING, AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.
37. TEMPORARY SEEDING: PER ODOT ITEM 832 CONSTRUCTION SEEDING AND MULCHING. SEE TABLE 2 PREVIOUS SHEET
38. PERMANENT SEEDING: PER ODOT ITEM 659 SEEDING AND MULCHING, AS PER PLAN. SEE TABLE 1 PREVIOUS SHEET
39. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.



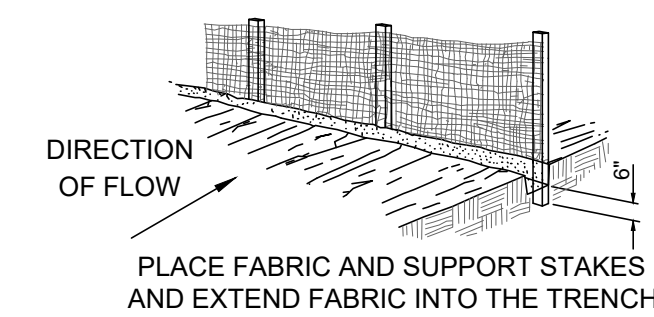
**STRAW WATTLE/FILTER SOCK**  
NTS

**NOTES:**

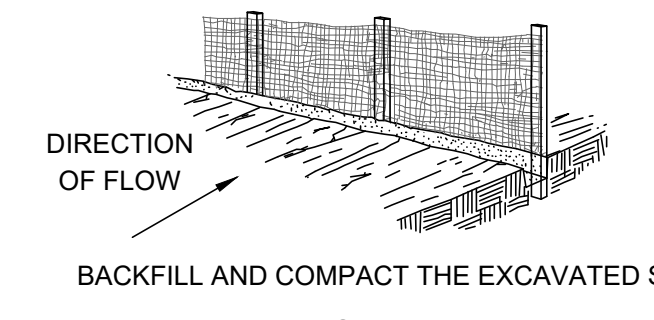
1. STRAW WATTLES AND SEDIMENT BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER RAINFALL AND REPAIRS SHALL BE MADE IMMEDIATELY. SHOULD THE BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NEEDED, THE BARRIER SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN-PLACE AFTER THE FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDDED.



**STEP 1**



**STEP 2**



**STEP 3**

**PERIMETER FILTER FABRIC FENCE**

**MATERIALS:**

FURNISH 30" WIDE FILTER FABRIC WITH SOUND WOOD SUPPORTS WITH MAXIMUM ON-CENTER SPACING OF 10'. USE FILTER FABRIC CONFORMING TO 712.09, TYPE C.

**CONSTRUCTION:**

TRENCH THE FILTER FABRIC FENCE AS DETAILED. THE CONTRACTOR MAY ELECT TO TRENCH THE FENCE DETAILED ON STEPS 1 THROUGH 3 IN ONE PLOWING OPERATION.

**PAYMENT:**

ITEM 832 - EROSION CONTROL

**MAINTENANCE:**

IF RUNOFF OVERTOPS THE FENCE, FLOWS UNDER THE FABRIC, AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS CONCENTRATED FLOW TO DISCHARGE, ONE OF THE FOLLOWING MUST BE PREFORMED:

1. THE LAYOUT OF THE FENCE SHALL BE CHANGED
2. SEDIMENT SHALL BE REMOVED
3. ANOTHER BMP SHALL BE INSTALLED

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED OR WHEN THE SEDIMENT REACHES ONE- HALF (1/2) OF THE HEIGHT OF THE FENCE.

FILTER FABRIC FENCE SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONG RAINFALL, THE LOCATION OF THE FENCE SHALL BE REVIEWED DAILY TO ENSURE EFFECTIVENESS.

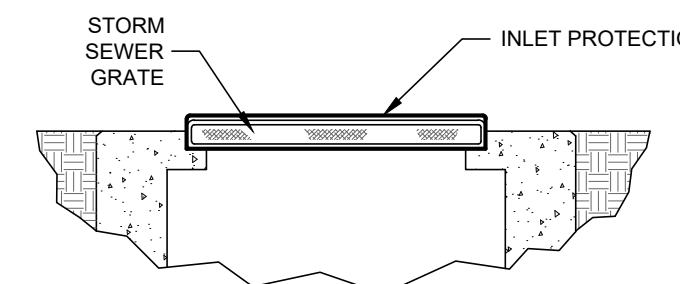
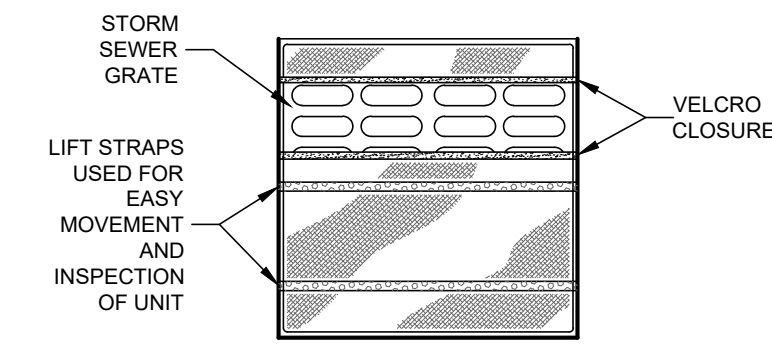
REPAIRS SHALL BE MADE AS NEEDED TO ENSURE BMP IS PERFORMING AS INTENDED.

**EROSION CONTROL PLACEMENT NOTES:**

1. INLET PROTECT SHALL BE PLACED ON ALL CATCH BASINS WITHIN THE WORK LIMITS AND WITHIN ANY ADJACENT DITCH.
2. STRAW WATTLES OR FILTER FABRIC FENCE SHALL BE PLACED PARALLEL TO THE PROPOSED SIDEWALK BETWEEN THE WORK AREA AND ANY DOWNSTREAM DITCH OR DOWNSTREAM LAND.

SEDIMENT & EROSION CONTROL QUANTITIES		
QTY	UNIT	DESCRIPTION
50	EA	INLET PROTECTION
2500	LF	STRAW WATTLE
5	EA	STABILIZED CONSTRUCTION ENTRANCE
1100	SY	CONSTRUCTION SEEDING AND MULCHING

THE ABOVE QUANTITIES INCLUDED IN ITEM 832 EROSION CONTROL.



**INLET PROTECTION**  
NTS

**MATERIALS:**

FURNISH INLET PROTECTION CONFORMING TO THE SPECIFICATIONS LISTED ABOVE.

**INSTALLATION:**

- 1) REMOVE GRATE FROM CATCH BASIN
- 2) PLACE THE EMPTY DANDY BAG UNIT OVER THE GRATE AS THE GRATE STANDS ON END.
- 3) HOLDING THE LIFTING STRAPS INSERT THE GRATE INTO ITS FRAME

**PAYMENT:**

ITEM 832 - EROSION CONTROL - LS

**MAINTENANCE:**

CONTRACTOR SHALL REMOVE ALL SEDIMENT AND DEBRIS FROM THE SURFACE AND VICINITY OF EACH UNIT AFTER EACH RAIN EVENT OR AS DIRECTED.

**TO BE USED ON EXISTING INLET STRUCTURES**

**STABILIZED CONSTRUCTION ENTRANCE**

**MATERIALS:**

8" - ITEM 411 STABILIZED CRUSH AGGREGATE. WIDTH = 12 FEET LENGTH = AS NEEDED

**INSTALLATION:**

- 1) PLACE CONSTRUCTION ENTRANCE

**RESTORATION:**

- 1) REMOVE CONSTRUCTION ENTRANCE
- 2) RE-GRADE DISTURBED AREA
- 3) APPLY SEEDING AND MULCHING, AS PER PLAN TO DISTURBED AREA

**PAYMENT:**

ITEM 832 - EROSION CONTROL - LS

**BID SET**

your trusted advisor  
consultants

engineers  
architects  
planners

DATE	REVISION	NO	BID SET	ISSUED FOR:
			8/6/24	AS SHOWN
			EJT	BKU
			EH	

**MIDDLE RIDGE ROAD  
SIDEWALK IMPROVEMENTS  
VILLAGE OF MADISON, LAKE COUNTY, OHIO**

**SEDIMENT & EROSION CONTROL  
NOTES & DETAILS - 2**

PROJECT NO.	241143
DISCIPLINE	CIVIL
SHEET NAME	SEC-DET2
SHEET	OF
25	25