

LAKETRA LAKESHORE BLVD. SHELTERS EASTLAKE MIDDLE SCHOOL LAKE COUNTY, OHIO

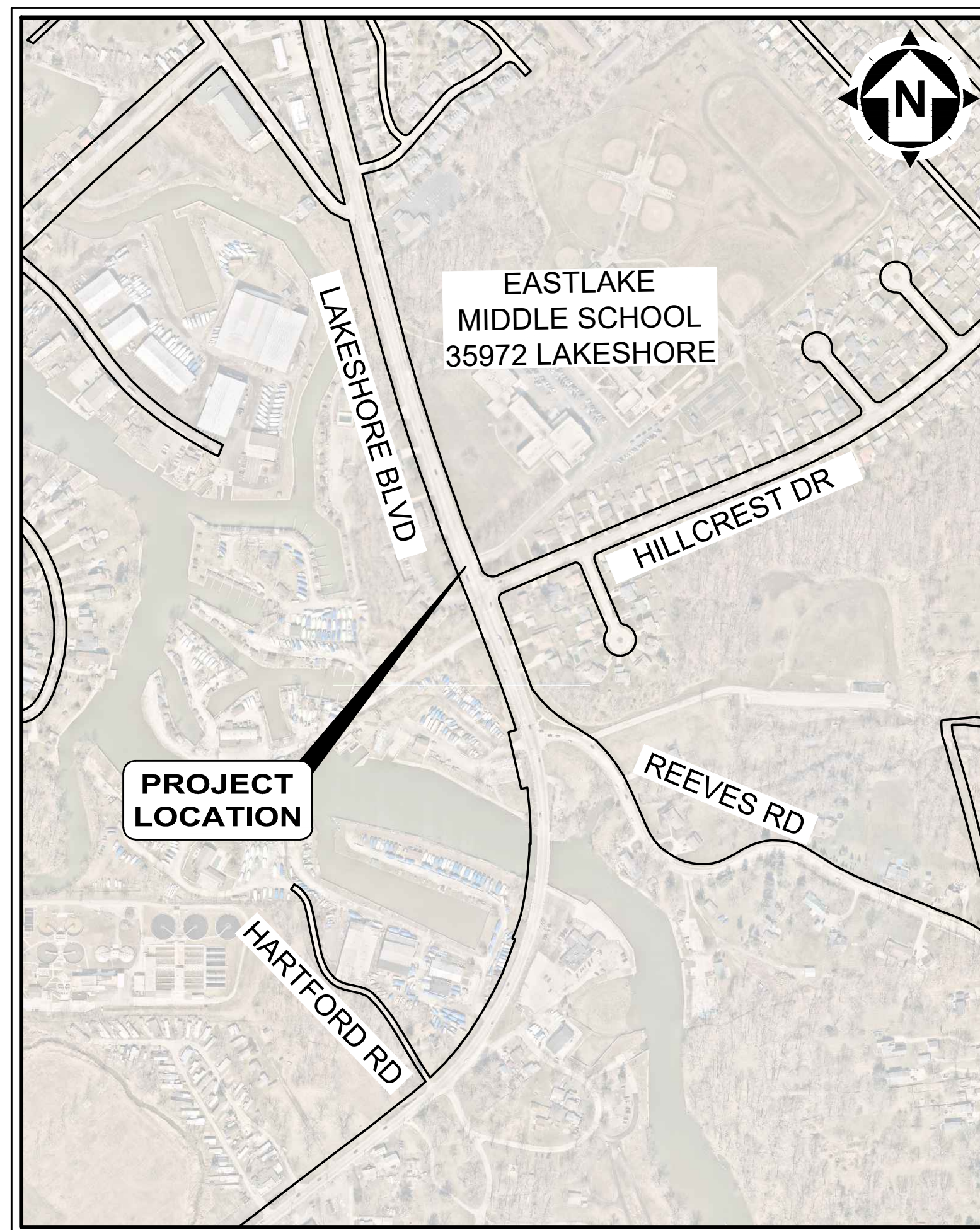
MARCH 2024

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 ANDREA AABY DIRECTOR OF COMPLIANCE AND DEVELOPMENT
 KEITH BARE DIRECTOR OF MAINTENANCE
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	KIM STENGER



LOCATION MAP
1" = 400'

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 SITE & GRADING PLAN
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1-800-362-2764

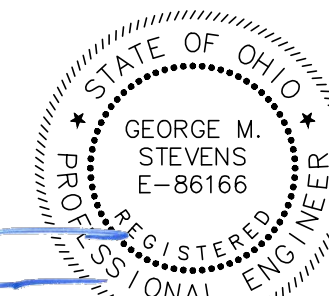
CALL TWO WORKING DAYS BEFORE YOU DIG
(NON MEMBERS MUST BE CALLED DIRECTLY)

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



ENGINEER'S PROJECT No. 232638

George M. Stevens
 GEORGE M. STEVENS
 P.E. No. 86166



04/01/2024
DATE

GENERAL NOTES

- 1. MATERIALS OF WORK FOR 'AS DIRECTED' ITEMS SHALL NOT BE ORDERED FOR THE DELIVERY TO THE PROJECT OR WORK PERFORMED UNTIL AUTHORIZED BY THE ENGINEER.
2. MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER VALVE BOXES AND OTHER CASTINGS SHALL BE RAISED OR LOWERED FLUSH WITH THE FINISHED SURROUNDING SURFACE.
3. BEFORE THE OWNER WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR SHALL FURNISH THE CITY A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD.

TRENCH EXCAVATION AND BACKFILL

- 1. ALL EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
2. BACKFILL FOR ALL UNDERGROUND UTILITIES INSTALLED UNDER PAVEMENT, OR WITHIN A 1:1 ZONE OF INFLUENCE PARALLEL OR TRANSVERSE TO PAVEMENT, SHALL BE "COMPACTED GRANULAR BACKFILL" AS DESCRIBED IN SPECIFICATION SECTION 312323.14 AND IN ACCORDANCE WITH THE PLANS.
3. SLAG PRODUCTS WILL NOT BE PERMITTED FOR BEDDING OR BACKFILL MATERIAL.

ROADWAY EXCAVATION AND PAVEMENT

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES PROOF ROLL TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF PAVEMENT. WORK WILL NOT BEGIN UNTIL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE ENGINEER.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE BARRICADE DEVICES TO PREVENT VEHICULAR TRAFFIC ON NEW CONCRETE PAVEMENT AND APRONS UNTIL THE END OF THE CURE PERIOD OR THE SPECIMEN TEST BEAMS HAVE ATTAINED A MODULUS OF RUPTURE OF 400 PSI FOR M.S. CONCRETE.

EXISTING UTILITIES

- 1. THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, THIS DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.
2. BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE", AT 1-800-382-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK.

Table listing utility providers: CABLE TV (CHARTER/SPECTRUM), ELECTRICITY (THE ILLUMINATING COMPANY), TELEPHONE (AT&T), SEWERS (LAKE COUNTY DEPARTMENT OF UTILITIES), GAS (DOMINION EAST OHIO), KEVIN KOSTELNIK (PUBLIC SERVICE DIRECTOR).

SERVICE CONNECTIONS

- 1. ALL ACTIVE DRAINAGE PIPES ENCOUNTERED SHALL BE RECONNECTED TO EXISTING FACILITIES OR CONNECTED TO THE NEW FACILITIES.
2. ALL EXISTING UTILITY SERVICE CONNECTIONS (SANITARY, STORM, WATER, GAS, ELECTRIC, TELEPHONE, ETC.) WHICH ARE DAMAGED DURING THE INSTALLATION OF PIPE SHALL BE REPAIRED WITH LIKE MATERIALS OR REPLACED, AS REQUIRED.
3. ALL UTILITY LINES ENCOUNTERED SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS; OR REMOVED, REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH.

GRASS RESTORATION

- 1. PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL INVENTORY TREELAWNS FOR EXISTING ORNAMENTAL LANDSCAPE FEATURES INCLUDING LAWN SPRINKLER SYSTEMS AND IRON PINS. ANY LANDSCAPE FEATURE DISTURBED OR DAMAGED BY THE CONTRACTOR'S ACTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
2. RESTORATION OF TREELAWNS AND GRASS AREAS IN EASEMENTS SHALL BE PERFORMED BY A LANDSCAPE CONTRACTOR TO BE APPROVED BY THE CITY ENGINEER AND SERVICE DIRECTOR.

SEWER INSTALLATION

- 1. ALL SANITARY SEWER 21" AND UNDER AND ALL STORM SEWER 18" AND UNDER SHALL BE PVC, SDR 26 RESILIENT AND FLEXIBLE (PREMIUM) JOINTS UNLESS OTHERWISE SHOWN ON THE PLANS.
2. EXISTING STORM SEWERS AND STORM SEWER LATERALS TO BE CONNECTED TO THE PROPOSED POLYPROPYLENE STORM SEWER MAIN SHALL BE TIED IN USING INSERTA TEES AND RE-CONNECTED TO EXISTING STORM SEWERS USING MISSION COUPLINGS.
3. ALL CONNECTIONS MADE TO EXISTING STORM SEWERS SHALL BE MADE WITH MISSION COUPLINGS OR APPROVED EQUAL.

EROSION AND DUST CONTROL

- 1. SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY HYDRO SEEDING AND MULCHING IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN ACCORDANCE WITH ODOT ITEM 659 OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL BEGIN THE RESTORATION PROCESS AS SOON AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZING EACH DISTURBED AREA WITH PERENNIAL VEGETATION INSTALLED ACCORDING TO SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS OR DRIVES BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.

EXCESS EXCAVATION

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

WORK HOURS

- 1. CONSTRUCTION ACTIVITIES WILL BE LIMITED TO WEEKDAY DAYTIME HOURS, UNLESS APPROVED IN ADVANCE BY THE CITY AND LAKE ERIE COLLEGE.

PROJECT SPECIFICATIONS

ALL WORK REQUIRED TO COMPLETE THIS IMPROVEMENT SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE DETAILED PLANS AND SPECIFICATIONS AND THE CURRENT CITY OF PAINESVILLE STANDARDS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATION REQUIREMENTS, THE MORE STRINGENT OF THE TWO WILL GOVERN, AS DETERMINED BY THE ENGINEER.

PROJECT SAFETY

THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT THE PROJECT SITE AT ALL TIMES. THE CONTRACTOR SHALL PROPERLY SUPPORT AND/OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL OSHA REGULATIONS. ADEQUATE BARRICADES, WARNING LIGHTS, SIGNS, FENCING, ETC., SHALL BE ERRECTED AROUND THE CONSTRUCTION AREA DURING ALL NON-WORKING HOURS TO ALERT PERSONS TO THE POTENTIAL DANGER ASSOCIATED WITH THE AREA UNDER CONSTRUCTION AS WELL AS TO PREVENT ACCESS TO UNAUTHORIZED PERSONNEL TO THE CONSTRUCTION SITE.

MAINTAINING TRAFFIC

THE CONTRACTOR SHALL MAINTAIN TRAFFIC ADJACENT TO THE PROJECT, INCLUSIVE OF BOTH LANES OF LAKESHORE BOULEVARD AND ALL ACCESS DRIVE APRONS IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT 614 - MAINTAINING TRAFFIC.

RESTORATION OF DISTURBED AREAS

EXISTING DRIVES, BERMS, LAWNS, PAVEMENTS, CURBS, SIDEWALKS, SIGNS, MAILBOXES, OR OTHER APPURTENANCES DISTURBED DURING CONSTRUCTION BUT NOT SPECIFICALLY DESIGNATED FOR REMOVAL/REPLACEMENT SHALL BE RESTORED TO A CONDITION EQUAL TO THAT WHICH EXISTED PRIOR TO CONSTRUCTION AND TO THE COMPLETE SATISFACTION OF THE CITY OF EASTLAKE, AND LAKETRAN. RESTORATION OF EXISTING ROADWAYS SHALL BE IN ACCORDANCE WITH THE GOVERNING AGENCY HAVING AUTHORITY.

PROTECTION AGAINST VANDALISM

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT SITE SECURITY MEASURES AND/OR PERSONNEL TO PROTECT ALL NEW CONCRETE WORK FROM VANDALISM UNTIL THE CONCRETE IS SUFFICIENTLY CURED AT NO ADDITIONAL COST TO THE PROJECT OR THE OWNER.

SAMPLING AND TESTING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF TESTING AND CERTIFICATION OF SAME. ALL CERTIFICATIONS OF TESTS AND/OR GRADATIONS FOR MATERIALS TO BE UTILIZED IN THE WORK AND ALL QUALITY CONTROL TESTING SHALL BE PERFORMED BY AN INDEPENDENT LABORATORY (NOT AFFILIATED WITH, OWNED BY, OR MANAGED BY THE CONTRACTOR). THE LABORATORY SHALL BE ACCREDITED BY THE AASHTO MATERIALS REFERENCE LABORATORY FOR THE TYPE OF TESTING PERFORMED.

TEST CRITERIA: THE FOLLOWING TESTS AT A MINIMUM SHALL BE INCLUDED WITH THE CONTRACTOR'S QUALITY CONTROL PLAN:

- 1. COMPACTION: COMPACTION TESTS OR FIELD DENSITY TESTS SHALL BE TAKEN ON ALL EMBANKMENT, TRENCH BACKFILL, SUBGRADE, AND SUBBASE MATERIAL. IN ACCORDANCE WITH ODOT 203. MINIMUM TESTING SHALL BE AS FOLLOWS: EMBANKMENT TESTING SHALL BE AT LEAST ONE (1) TEST/3,000 S.F. OF EACH LIFT.
2. AGGREGATES: FOR EACH MATERIAL AND/OR DIFFERENT SOURCE, THE LABORATORY SHALL PERFORM SOUNDNESS, GRADATION AND OTHER TESTS FOR ALL PARAMETERS SPECIFIED.
3. CONCRETE: TEMPERATURE AND UNIT WEIGHT SHALL BE RUN ON FRESH CONCRETE AT INTERVALS SUFFICIENT FOR THE TYPE OF STRUCTURE BEING PLACED AT A MINIMUM OF ONCE PER DAY.

RESTORATION

- 1. THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES, AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE RE-GRADED BY THE END OF THE SAME WORKDAY.
2. ALL EXISTING STORM AND SANITARY SEWER FACILITIES, INCLUDING TILE, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR RECONNECTED TO THE EXISTING OR PROPOSED SYSTEM AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.

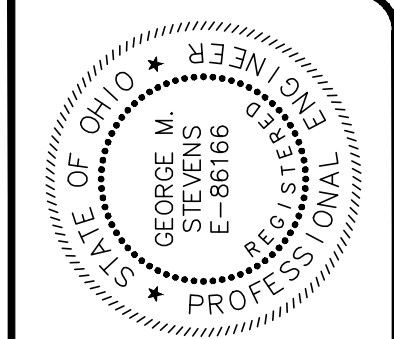
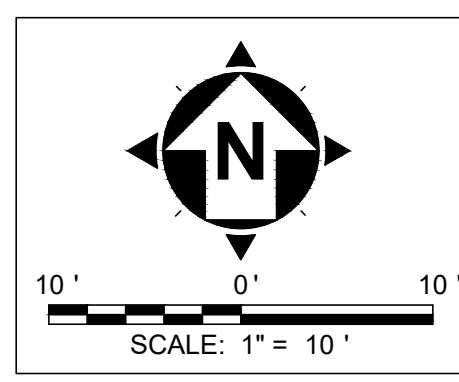
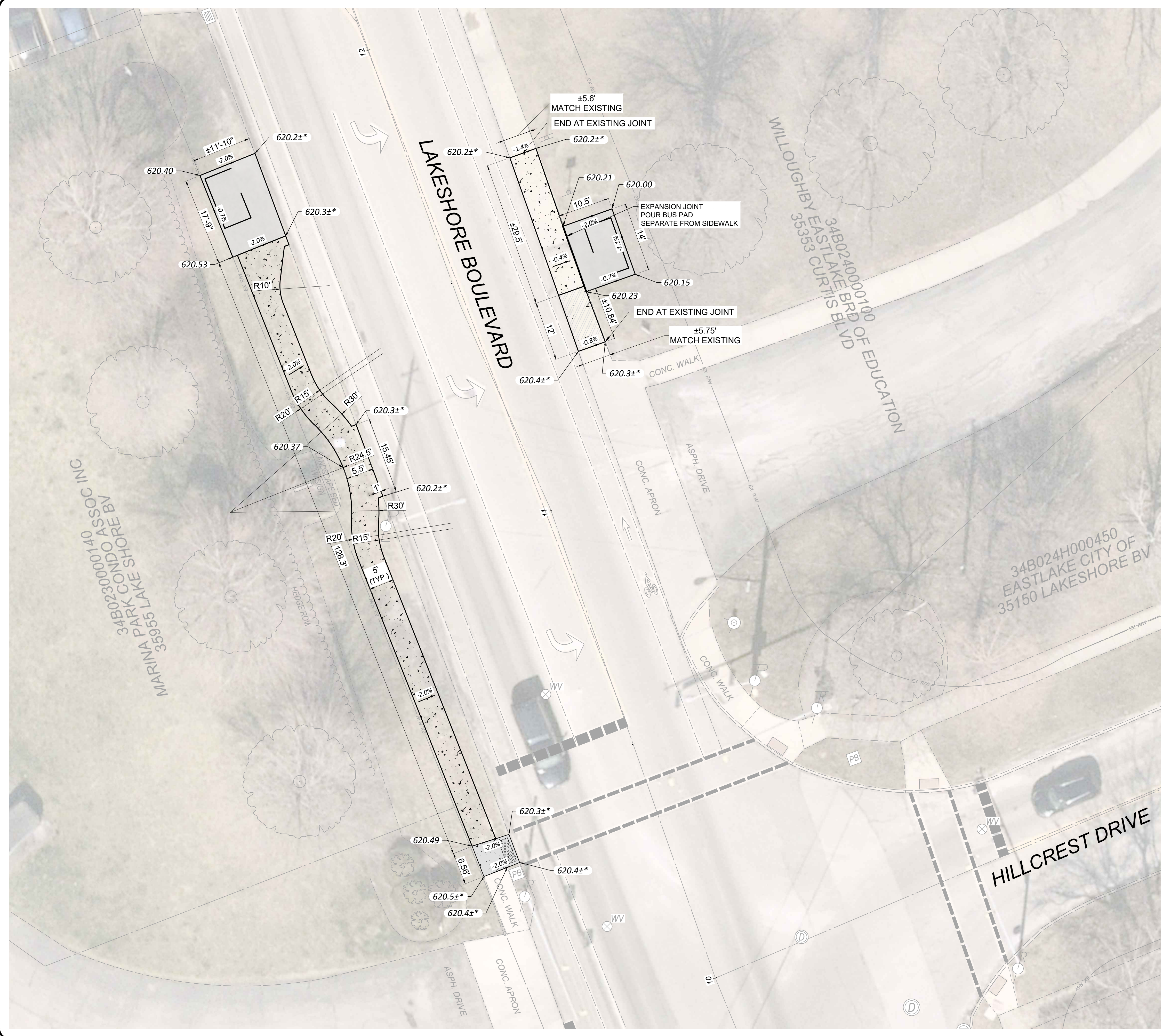


Table with columns: DATE, REVISION, NO, BIDSET, ISSUED FOR, ISSUE DATE, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY. Includes entries for 04/01/2024, AS SHOWN, GMS, SNK, GMS.

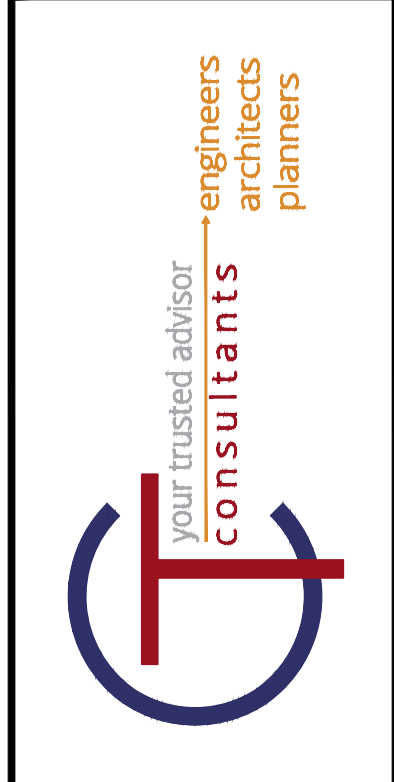
LAKETRAN - LAKESHORE BLVD. SHELTERS EASTLAKE MIDDLE SCHOOL 35972 LAKESHORE BLVD., EASTLAKE, OH 44095 GENERAL NOTES

Table with project information: PROJECT NO. 232638, DISCIPLINE CIVIL, SHEET NAME GN, SHEET 2 OF 4.



LEGEND

	6 INCH CONCRETE PAVEMENT 40 SY
	4 INCH CONCRETE SIDEWALK 865 SF
	6 INCH CONCRETE SIDEWALK 185 SF
	ADA RAMP 50 SF
	BUS SHELTER - INSTALLED BY OWNER - REFERENCE ONLY
XXX.X±*	MATCH EXISTING ELEVATION

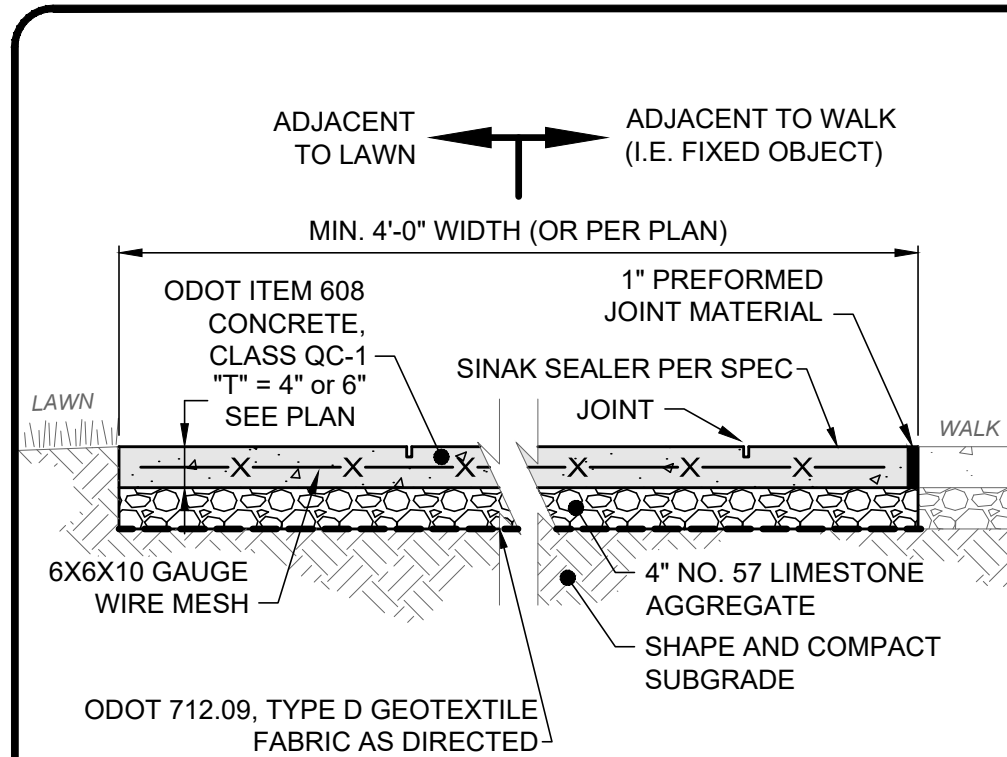


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ISSUE DATE: 04/01/2024			
SCALE: AS SHOWN			
DESIGNED BY: GMS			
DRAWN BY: SNK			
CHECKED BY: GMS			

**LAKETRAN - LAKESHORE BLVD.
SHELTERS**
EASTLAKE MIDDLE SCHOOL
35972 LAKESHORE BLVD, EASTLAKE, OH 44095

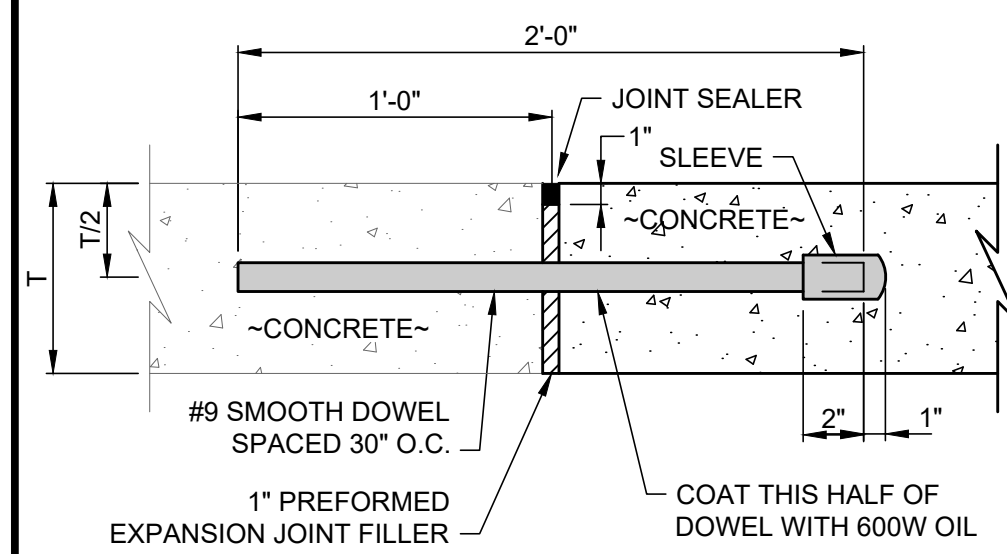
**SITE LAYOUT
& GRADING PLAN**

PROJECT NO. 232638	
DISCIPLINE CIVIL	
SHEET NAME P-1	
SHEET 3	OF 4

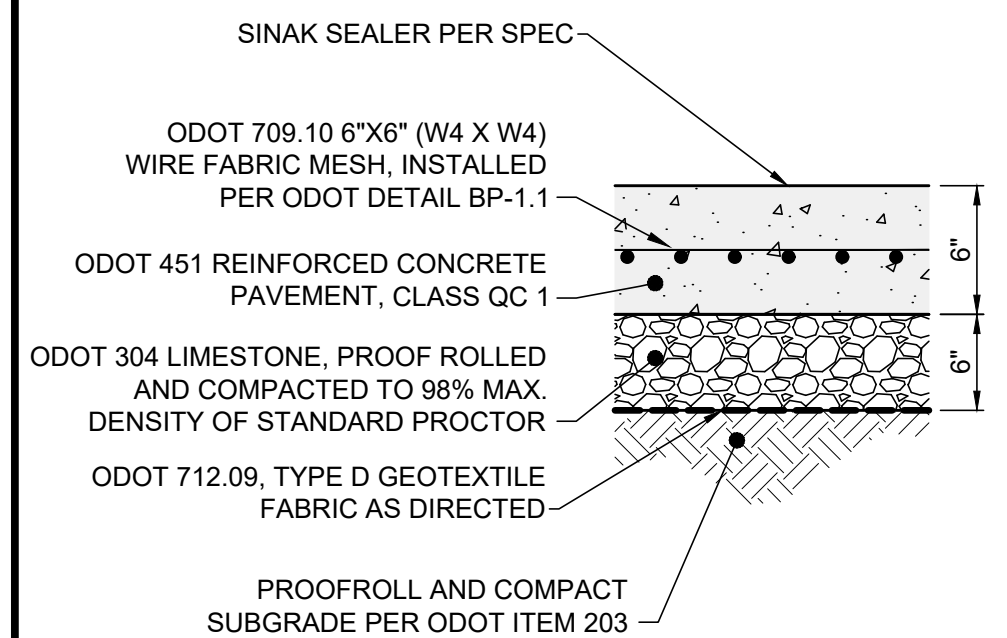


- NOTES:
- SEE LAYOUT PLAN FOR JOINT LOCATIONS. IF JOINTS ARE NOT PROVIDED, THEN THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL JOINTS. DIVIDE JOINTS INTO EQUALLY SPACED RECTANGULAR BLOCKS.
 - SAW CUT OR HAND TOOL JOINT 1/8" WIDE BY 1/4 OF "T" DEEP.
 - ROUND ALL EDGES AND JOINTS WITH A 1/4" RADIUS.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

CONCRETE WALK DETAIL
SCALE: NONE

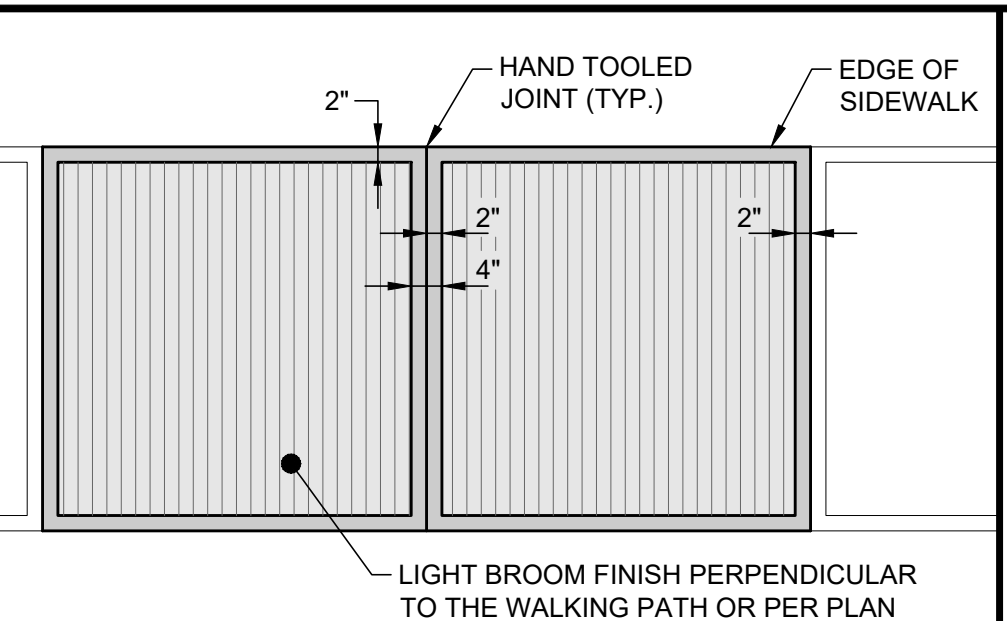


EXPANSION JOINT DETAIL
SCALE: NONE



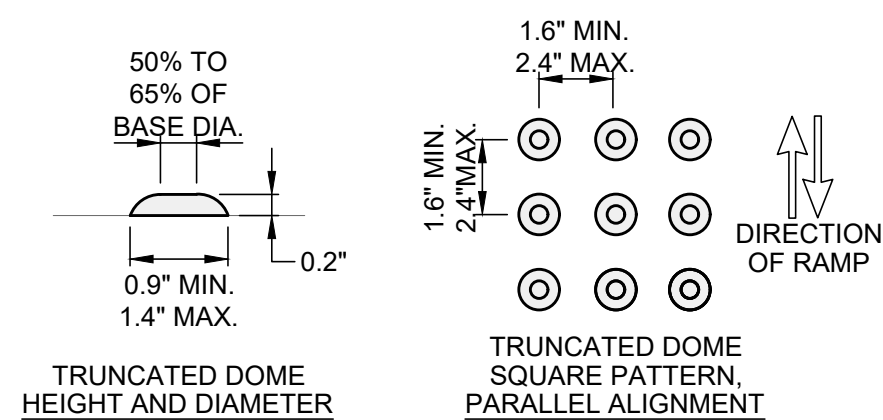
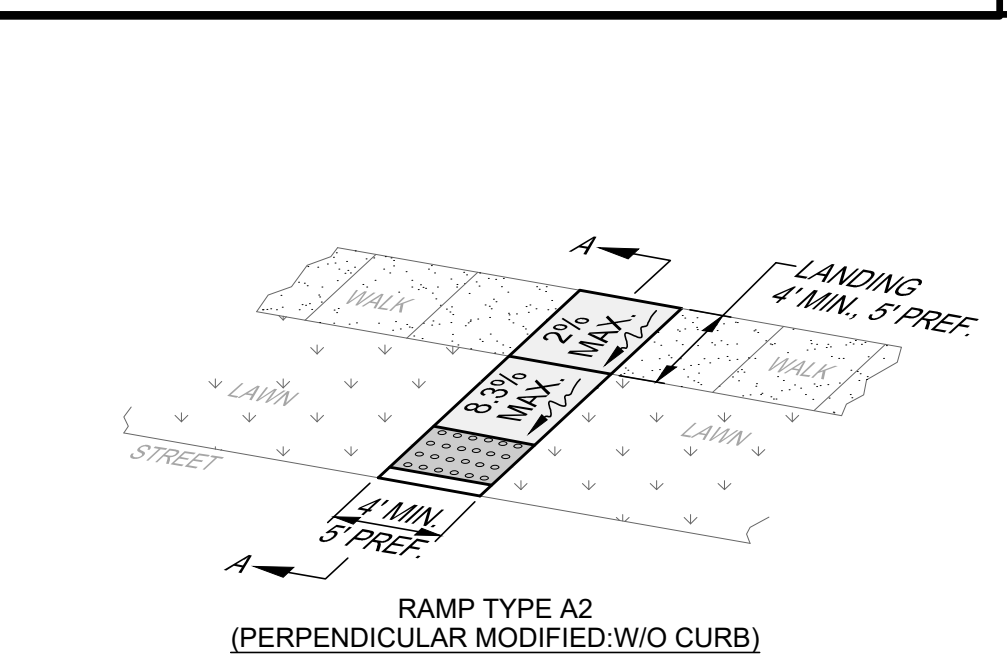
- NOTES:
- SEE LAYOUT PLAN FOR JOINT LOCATIONS. IF JOINTS ARE NOT SHOWN, THEN THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL JOINTS. DIVIDE JOINTS INTO EQUALLY SPACED RECTANGULAR BLOCKS.
 - APPLY LIQUID-MEMBRANE CURING COMPOUND (200 S.F./GAL.).
 - IF UNSUITABLE SOILS EXISTS, UNDERCUT SUBGRADE AND REPLACE WITH ODOT ITEM 304 CRUSHED LIMESTONE, 12" MIN.

REINFORCED CONCRETE PAVEMENT DETAIL
SCALE: NONE

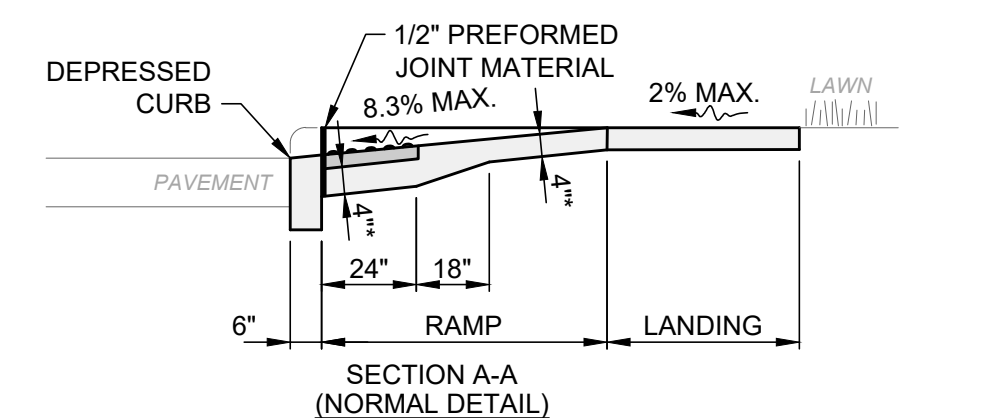


- NOTES:
- THIS DETAIL IS FOR REFERENCE AND DIMENSION CONTROL ONLY; SEE LAYOUT PLAN FOR LOCATIONS.
 - HAND TOOLED JOINTS AND EDGES SHALL BE APPLIED AFTER PANEL INTERIOR TEXTURE HAS BEEN APPLIED TO CREATE A "WINDOW PANE" EFFECT AROUND EACH PANEL.
 - TOOLED EDGE SHALL BE 2" WIDTH EACH SIDE OF JOINT.

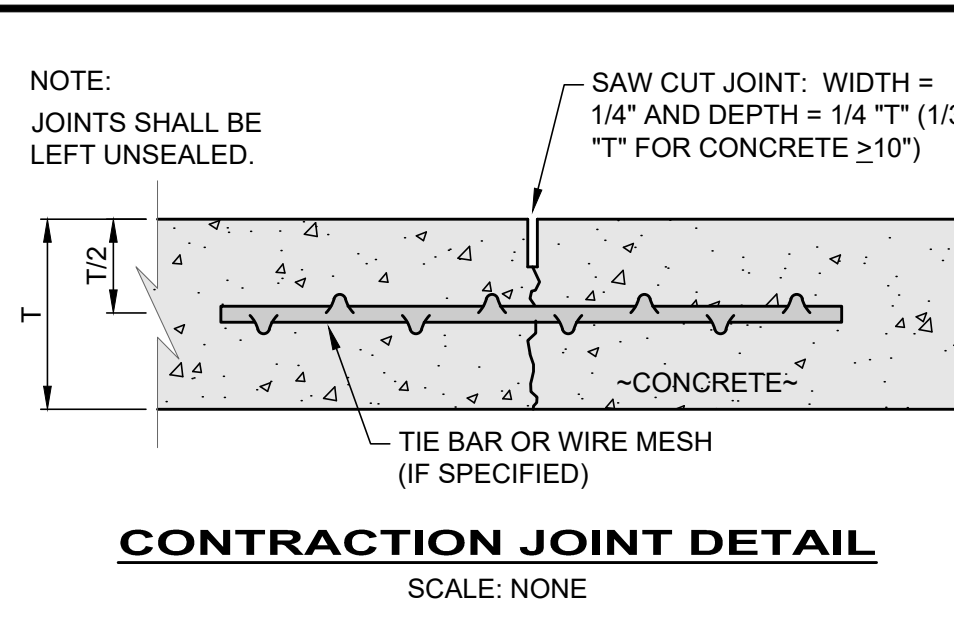
CONCRETE SIDEWALK JOINT AND FINISH DETAIL
SCALE: NONE



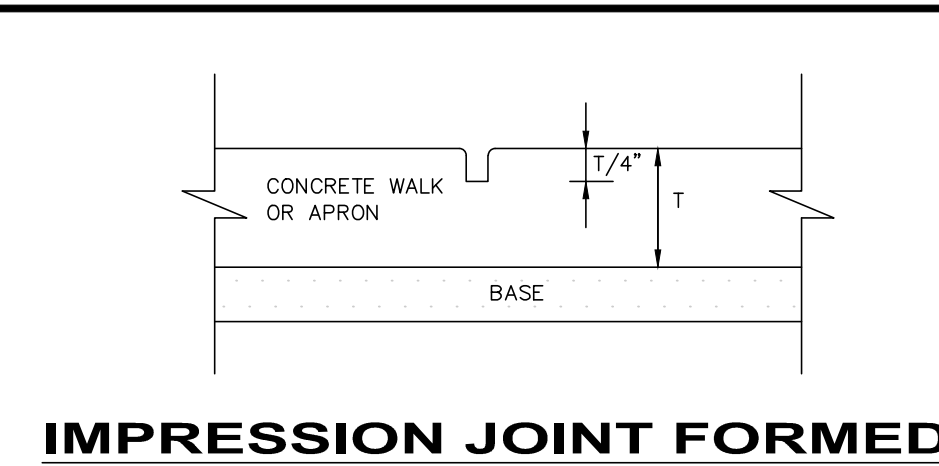
- NOTES:
- THIS DETAIL IS FOR REFERENCE ONLY; NOT ALL ITEMS MAY APPLY OR DIFFERENT CONFIGURATIONS MAY BE REQUIRED. SEE LAYOUT PLAN FOR RAMP TYPE, CONFIGURATION, DIMENSIONS AND DEPRESSED CURB LOCATION; GRADING PLAN FOR ELEVATIONS AND SLOPES; AND DETAIL SHEETS FOR APPLICABLE WALK AND CURB DETAILS.
 - LINES SHOWN IN THIS DETAIL INDICATE RAMP EDGES AND CHANGES IN SLOPE, AND NOT NECESSARILY JOINT LINES.
 - TEXTURE CONCRETE SURFACE BY COARSE BROOMING TRANSVERSE TO RAMP SLOPE.
 - ALL RAMPS SHALL BE POURED INTEGRAL WITH NEW CURBS WITH CURB EDGE FLUSH TO PAVEMENT.
 - TRUNCATED DOMES SHALL BE ALONG THE FULL RAMP WIDTH AND ALIGNED WITH THE PRIMARY RAMP DIRECTION.
 - TRUNCATED DOMES SHALL BE INSTALLED FLUSH WITH BACK OF CURB. IN SKEWED CONDITION, ONE CORNER OF THE STRIP MUST BE ADJACENT TO BACK OF CURB. TRUNCATED DOME MATERIALS SHALL BE MITERED AND PLACED SEGMENTALLY FOR NON-STANDARD LAYOUTS.
 - ONLY CAST-IN-PLACE TRUNCATED DOMES ARE ALLOWED.
 - TRUNCATED DOME COLOR SHALL BE BRIGHT RED, OR ORANGE RED AND CONTRAST WITH CONCRETE.



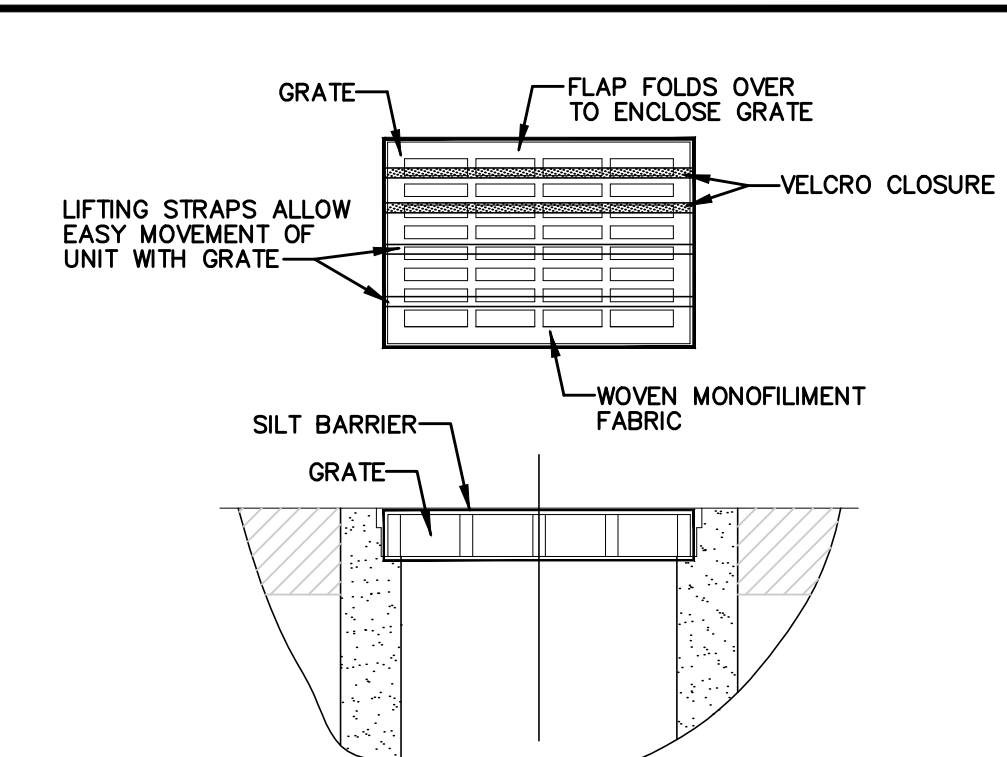
ACCESSIBLE CURB RAMPS DETAIL
SCALE: NONE



CONTRACTION JOINT DETAIL
SCALE: NONE

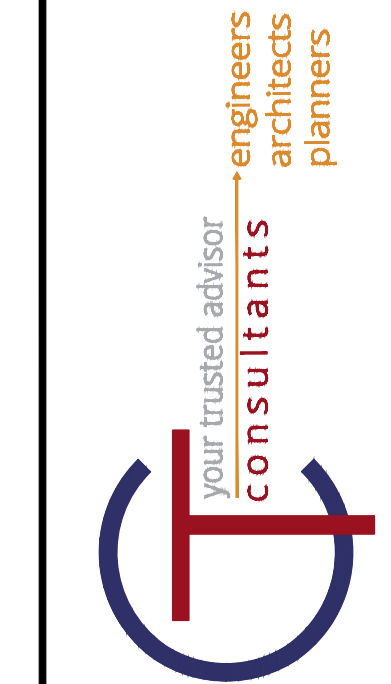
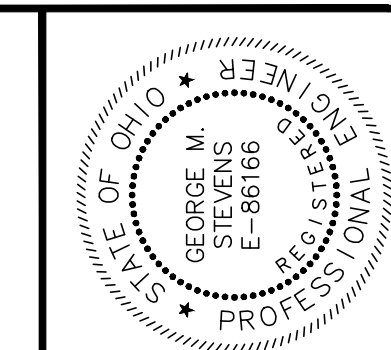


IMPRESSION JOINT FORMED



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

INLET PROTECTION FOR CATCH BASIN IN ROADWAY



NO.	REVISION	DATE

ISSUED FOR:	BIDSET	NO.	REVISION	DATE

ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
04/01/2024	AS SHOWN	GMS	SNK	GMS

LAKETRAN - LAKESHORE BLVD.
SHELLTERS
EASTLAKE MIDDLE SCHOOL
35972 LAKESHORE BLVD, EASTLAKE, OH 44095

CONSTRUCTION DETAILS

PROJECT NO.	232638
DISCIPLINE	CIVIL
SHEET NAME	D-1
SHEET	4
OF	4