

ELTON DRIVE CULVERT

CITY OF TALLMADGE SUMMIT COUNTY

FEBRUARY, 2024

PROJECT DESCRIPTION

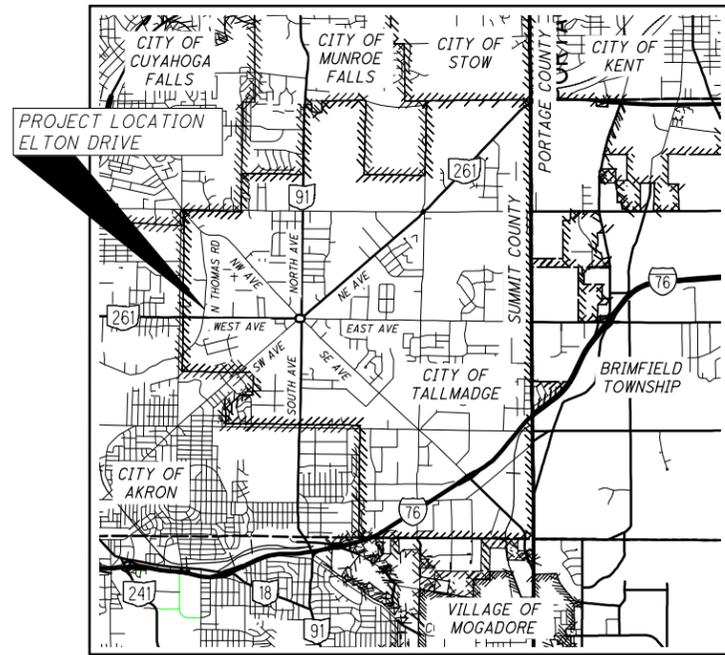
STORM SEWER REPLACEMENT WITH ASSOCIATED PAVEMENT REPAIRS INCLUDING N THOMAS ROAD AND ADJACENT DRIVEWAY APPROACHES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.10 ACRES

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.



LOCATION MAP

LATITUDE: N 41°06'12" LONGITUDE: W 81°27'40"

SCALE IN MILES



- PORTION TO BE IMPROVED
- INTERSTATE & DIVIDED HIGHWAY
- UNDIVIDED STATE & FEDERAL ROUTES
- OTHER ROADS

INDEX OF SHEETS:

TITLE SHEET	1
EXISTING SITE PLAN	2
GENERAL NOTES	3-4
MAINTENANCE OF TRAFFIC NOTES	5
PLAN & PROFILE	6
SITE PLAN	7
CITY OF TALLMADGE GENERAL NOTES & DETAILS	8-9
SWPPP	10
SWPPP DETAILS	11

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:

OHM ADVISORS, INC.
388 S. MAIN ST., SUITE 301
AKRON, OH 44311
330.913.1080

ODOT STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS
CB-2-2A,2B,2C	01/20/2023			800-2023 10/20/23 832 7/21/23
CB-2-5,2-6	07/16/2021			
				SPECIAL PROVISIONS

APPROVED _____

DATE _____ MICHAEL RORAR, CITY OF TALLMADGE
DIRECTOR OF PUBLIC SERVICE

ARCHITECTS ENGINEERS PLANNERS
388 S. MAIN ST., SUITE 301
AKRON, OH 44311
330.913.1080
OHM-ADVISORS.COM

Alex C. Sava, PE
Ohio Professional Engineer
#85109

REVISIONS

CITY OF TALLMADGE
ELTON DRIVE CULVERT
TITLE SHEET

DRAWING PATH: P:\8101_650045822030_Tallmadge_Elton_Drive_Culvert\ODOT\OHM23103-00-Engineering\Roadway\Sheet\23103\0101 (Title Sheet).dwg Feb 01, 2024 - 2:58pm

COPYRIGHT 2015 OHM ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF OHM AND THE SAME MAY NOT BE REPRODUCED, DISTRIBUTED, OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM

GENERAL NOTE

ALL CONSTRUCTION OF ANY PROJECT SHALL BE IN CONFORMANCE WITH CITY OF TALLMADGE'S CITY DEVELOPMENT STANDARDS, CITY OF TALLMADGE'S CODIFIED ORDINANCE AND THE OHIO REVISED CODE. (SEE SHEET 8-9 FOR CITY STANDARD NOTES AND DETAILS)

UTILITIES GENERAL NOTE

UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC.). CURRENT CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA WAS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE, THE SURVEYOR CANNOT, AND DOES NOT GUARANTEE THAT PIPE MATERIAL, AND/OR PIPE SIZE, THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC, ETC.) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS.

UNLESS SPECIFICALLY NOTED HEREON, THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED, OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.

EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED UPON THE BEST AVAILABLE INFORMATION PROVIDED TO THE ENGINEER DURING THE DESIGN PROCESS PER ORC 153.64. THE ENGINEER CANNOT GUARANTEE EXACT LOCATIONS OF UNDERGROUND UTILITIES OR ANY UTILITIES ABOVE GROUND OR UNDERGROUND THAT MAY HAVE BEEN RELOCATED AFTER THE DESIGN PROCESS. THE CONTRACTOR SHALL EXPECT TO ENCOUNTER SERVICE LINES AND LATERALS DURING CONSTRUCTION AT ALL DWELLINGS/BUSINESSES, WHETHER SHOWN ON THESE PLANS OR NOT. LOCATION OF UNDERGROUND UTILITY FACILITIES SERVING SINGLE-FAMILY OR TWO-, THREE-, OR FOUR-UNIT DWELLINGS ARE NOT REQUIRED TO BE MADE AVAILABLE TO THE ENGINEER DURING THE DESIGN PROCESS PER ORC 153.64 AND THUS MAY OR MAY NOT BE PROVIDED ON THE PLANS. IF PROVIDED ON THE PLANS, THE ENGINEER CANNOT GUARANTEE EXACT LOCATIONS. NO ADDITIONAL COSTS OR CHANGE ORDERS WILL BE APPROVED FOR UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT.

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH ORC 153.64, SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

- THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO OIL AND GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS), AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
OGPUPS 1-800-925-0988

- THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN ON THESE PLANS OR NOT, IN ACCORDANCE WITH ORC 153.64.
- THE CONTRACTOR SHALL INSTALL FACILITIES AT THE REQUIRED HORIZONTAL AND VERTICAL CLEARANCES. THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION OF PROPOSED WORK TO VERIFY THE REQUIRED VERTICAL AND HORIZONTAL CLEARANCE IS AVAILABLE, PRIOR TO CONSTRUCTION OF THE PROPOSED FACILITY. THE ENGINEER CANNOT GUARANTEE EXACT DEPTHS OF EXISTING UTILITIES. IN THE CASE OF CONFLICT BETWEEN UTILITIES, THE ENGINEER SHALL DETERMINE THE PROPOSED COURSE OF ACTION TO ELIMINATE THE CONFLICT.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. ALL EXISTING UTILITIES, SERVICE LINES, LATERALS, ETC., DAMAGED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER.
- AT ALL UTILITY CROSSINGS, THE TRENCH BACKFILL SHALL CONSIST OF COMPACTED GRANULAR MATERIAL BETWEEN THE PIPES.
- ALL EXISTING MANHOLES, CATCH BASINS, UTILITY BOXES, VALVES BOXES, ETC. SHALL BE ADJUSTED TO MATCH THE FINISHED GRADE OF THE PROJECT.

NOTE THAT SEPARATE PAY ITEMS MAY EXIST FOR POT-HOLING, UTILITY REPAIR, AND UTILITY ADJUSTMENTS (SEE PROJECT BID FORM). IF THOSE PAY ITEMS ARE PROVIDED, THEIR RESPECTIVE SPECIFICATIONS CAN BE FOUND IN THE BID DOCUMENTS. IF THESE PAY ITEMS ARE NOT PROVIDED IN THE PROJECT, THEN ALL COSTS ASSOCIATED WITH SUCH WORK SHALL BE INCLUDED IN THE VARIOUS PRICES BID FOR THE PROJECT.

THE OWNER/ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR NEGLIGENCE, NON-PARTICIPATION, ERRORS, OMISSIONS, OR INACCURACIES OF WORK CONDUCTED BY UTILITY COMPANIES, THEIR CONTRACTORS, LOCATION SERVICES, OR OTHERS.

ALL COSTS, INCLUDING LABOR, EQUIPMENT, MATERIALS, COORDINATION, ETC., FOR ALL ASPECTS OF WORK DESCRIBED IN THIS NOTE AND ASSOCIATED REQUIREMENTS, SHALL BE INCLUDED IN THE VARIOUS PRICES BID FOR THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED TO THE CONTRACTOR FOR ANY CONDITION DESCRIBED ABOVE.

STORM AND SANITARY SEWER SYSTEMS

ALL STORM AND SANITARY STRUCTURES SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611, CONSTRUCTED PER THE STANDARD DRAWING REFERENCED IN THE PLANS, OR AS MODIFIED BY SPECIFIC DETAILS INCLUDED IN THIS PLAN. ACCEPTABLE STRUCTURE MATERIALS SHALL BE PRECAST CONCRETE ONLY. SANITARY STRUCTURES SHALL ALSO MEET THE REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).

THE CONTRACTOR SHALL INSTALL A FRAME SEAL ON SANITARY AND COMBINED SEWER MANHOLES AND EXTENSIONS IF NEEDED. THE FRAME SEAL AND EXTENSION SHALL SPAN THE ENTIRE ADJUSTMENT AREA OF THE MANHOLE BY CONNECTING TO THE BOTTOM OF THE CASTING FRAME. THE SEALING SYSTEM SHALL PREVENT LEAKAGE OF WATER INTO THE MANHOLE THROUGH THE CASTING FRAME JOINT AND THE ADJUSTMENT RING AREA. THE SEAL SHALL BE EQUAL TO OR GREATER THAN THE RESULTS OF THE FOLLOWING ASTM TEST METHODS:

TENSILE STRENGTH (ASTM-D412) = 1500 PSI MIN.

HARDNESS (ASTM-D2240) = 45

ELONGATION (ASTM-D42) = 350%

THE COST OF FRAME SEALS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 ITEM.

ALL STORM GRATES SHALL BE "BICYCLE SAFE" AND "ADA COMPLIANT".

ALL STORM AND SANITARY PIPES SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611, OR AS MODIFIED BY SPECIFIC DETAILS INCLUDED IN THIS PLAN.

ALL UNDERDRAINS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 605, OR AS MODIFIED BY SPECIFIC DETAILS INCLUDED IN THIS PLAN. ACCEPTABLE MATERIALS SHALL BE HDPE (707.31) OR PVC (707.41).

ALL ROOF DRAIN COLLECTORS AND SANITARY LATERALS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611, OR AS MODIFIED BY SPECIFIC DETAILS INCLUDED IN THIS PLAN. ACCEPTABLE MATERIALS SHALL BE HDPE (707.33) OR PVC (707.45).

ALL EXISTING PIPES, ROOF DRAINS, DRAIN TILES, SUMP PUMP CONNECTIONS, SPRING DRAINS, OR FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE CONNECTED TO THE STORM SEWER SYSTEM OR ROOF DRAIN COLLECTOR SYSTEM, AS DIRECTED BY THE ENGINEER. ROOF DRAINS, FOUNDATION DRAINS OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE NOT PERMITTED.

ALL COSTS FOR THE WORK DESCRIBED ABOVE SHALL BE INCLUDED FOR PAYMENT WITH THE PRICE BID FOR THE VARIOUS CONTRACT ITEMS.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATION.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT CONDUIT PAY ITEM.



ARCHITECTS ENGINEERS PLANNERS
388 S. MAIN ST., SUITE 301
AKRON, OH 44311
330.913.1080
OHM-ADVISORS.COM



ALEX C. SAVA
PE #85109
Alex C. Sava, PE
Ohio Professional Engineer
#85109

REVISIONS

DATE: 2/1/2024
PROJ NUMBER: 68862009
ENG: ACS
PROJMS: ACS
CADD: ACS
CADD: ACS
CITY/VILLAGE/TOWNSHIP: CITY OF TALLMADGE
COUNTY: SUMMIT COUNTY
SCALE: H: 1"=20' V: 1"=5'
VERT DATUM: NAVD83 (2011)
HORIZ DATUM: NAVD83 (2011)
MADE (2011)

CITY OF TALLMADGE
ELTON DRIVE CULVERT
GENERAL NOTES

DRAWING PATH: P:\6101_6800\68862009_Tallmadge_Elton_Drive_Culvert\001\04\02\103-000-Engineering\Roadway\Sheet\21103-GH01 (General Notes).dwg Feb 01, 2024 - 10:23am

COPYRIGHT 2015 OHM ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF OHM AND THE SAME MAY NOT BE REPRODUCED, DISTRIBUTED, OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM

UTILITY CONTACT INFORMATION

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

STORM SEWER:
CITY OF TALLMADGE
46 NORTH AVENUE
TALLMADGE, OH 44278
PHONE: (330)-633-5130

SANITARY SEWER:
CITY OF TALLMADGE
46 NORTH AVENUE
TALLMADGE, OH 44278
PHONE: (330)-633-0851

WATER:
CITY OF TALLMADGE
46 NORTH AVENUE
TALLMADGE, OH 44278
PHONE: (330)-633-0851

FIBER OPTIC COMMUNICATIONS:
CITY OF TALLMADGE
46 NORTH AVENUE
TALLMADGE, OH 44278
PHONE: (330)-633-5130

TRAFFIC:
CITY OF TALLMADGE
46 NORTH AVENUE
TALLMADGE, OH 44278
PHONE: (330)-633-5130

CITY OF AKRON WATER
146 S HIGH ST, 3RD FLOOR
AKRON, OHIO 44308
PHONE: (330)-375-2690 EXT: 6562
ATTN: MARK ELDRIDGE
MELDRIDGE@AKRONOHIO.COM

TELCOM: AT&T
50 W BOWERY ST, 6TH FLOOR
AKRON, OHIO 44308
PHONE: (330)-319-5239
CE3141@ATT.COM
ATTN: JEFF ZEHNER (CONSTRUCTION)
(330) 524-4725

TELCOM:
CHARTER COMMUNICATIONS
1200 BROWNSTONE AVE
AKRON, OHIO 44310
PHONE: (330)-622-4106
ATTN: JIM LONG

TELCOM:
LUMEN TECHNOLOGIES/CENTURYLINK
4000 CHESTER AVE
CLEVELAND, OHIO 44103
PHONE: (216) 426-6010 / (216) 906-6284
ATTN: DOUG HOLLOWAY
OHRELO@CENTURYLINK.COM

POWER:
OHIO EDISON
76 SOUTH MAIN ST
AKRON, OHIO 44308
PHONE: (330)-384-4928
ATTN: MARY WALTON
MWALTON@FIRSTENERGYCORP.COM

GAS:
DOMINION ENERGY OHIO
320 SPRINGSIDE DR, SUITE 320
AKRON, OHIO 44333
PHONE: (330)-472-4209
ATTN: AARON CONANT
K.AARON.CONANT@DOMINIONENERGY.COM

FIBER OPTIC COMMUNICATIONS:
EVERSTREAM SOLUTIONS
1228 EUCLID AVENUE, SUITE 250
CLEVELAND, OH 44115
PHONE: (216)-372-6502
ATTN: TOM TRUSNIK

TELCOM:
VERIZON / MCI
120 RAVINE ST
AKRON, OHIO 44303
PHONE: (440)-457-4832
ATTN: DANIEL ARZ
DANIEL.ARZ@VERIZON.COM

MAINTAINING TRENCH WORK

THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MAINTAIN ALL TRENCH WORK ON THE PROJECT. FAILURE OF TRENCH WALLS, BOTTOM OF TRENCH, AND ALL MATERIALS AROUND THE TRENCH, INCLUDING THE PAVEMENT, CURB, SIDEWALK, EARTHWORK, ETC., WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

EMBANKMENT AND TRENCH BACKFILL

THE CONTRACTOR SHALL USE SUITABLE MATERIALS CONFORMING TO THE ODOT CMS FOR ALL EMBANKMENT AND TRENCH BACKFILL. THE CONTRACTOR SHALL INSTALL MATERIALS IN PROPER LIFTS AND CONDUCT THE SPECIFIED COMPACTION. NO PAYMENT WILL BE MADE FOR REMOVAL AND REPLACEMENT OF FAILED MATERIALS BROUGHT ON SITE.

ITEM 201 - CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM ITEM IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

EROSION CONTROL

THE FOLLOWING ITEMS HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO PREVENT CONSTRUCTION SEDIMENT RUNOFF FROM ENTERING WATERWAYS.

- ITEM SPECIAL - FILTER FABRIC FENCE (PERIMETER) 90 FT.
- ITEM SPECIAL - INLET PROTECTION 4 EACH

SEE SHEETS 10-11 FOR SWPPP DETAILS.



Alex C. Sava
Alex C. Sava, PE
Ohio Professional Engineer
#85109

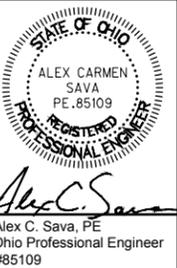
REVISIONS:

SHEET: 2/10/24
DATE: 6/28/2024
PROJ NUMBER: 63862009
ENG: ACS
PROJ MGR: JLS
CADD: ACS
CADD: JLS
COUNTY: SUMMIT COUNTY
CITY/VILLAGE/TOWNSHIP: CITY OF TALLMADGE
SCALE: H: 1"=20' V: 1"=5'
HORIZ DATUM: MADE(2011)
VERT DATUM: NAVD83

CITY OF TALLMADGE
ELTON DRIVE CULVERT
GENERAL NOTES

DRAWING PATH: P:\6101_6500\63862009_Tallmadge_Elton_Drive_Culvert\0001\04\23\103-100-Engineering\Roadway\Sheet\22103-GH01 (General Note).dwg File 01, 2024 - 10:23am

COPYRIGHT 2015 OHM ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF OHM AND THE SAME MAY NOT BE REPRODUCED, DISTRIBUTED, OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM



Alex C. Sava, PE
Ohio Professional Engineer
#85109

ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN

WHEN THIS ITEM IS CALLED FOR ON THE PLANS OR IN THE PROPOSAL, ALL APPLICABLE PROVISIONS OF ODOT ITEM NO. 614, MAINTAINING TRAFFIC, AS SET FORTH IN THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY EXCEPT AS MODIFIED HEREIN.

THE CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC (MOT) PLAN AND SUBMIT TO THE ENGINEER FOR APPROVAL. THE MOT PLAN MUST BE APPROVED BY THE ENGINEER, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE FOLLOWING CONDITIONS SHALL BE MET FOR ANY APPROVED MOT PLAN:

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR, IN ACCORDANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (OMUTCD), CURRENT VERSION. PLAN INSERT (DROP OFFS IN WORK ZONES) SHALL APPLY TO ALL WORK ON THIS PROJECT.

ALL TRENCHES WITHIN THE PAVEMENT, BERM, AND SHOULDER SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

SAFE "RAMPING" TO ADJACENT TRAFFIC LANES AND ADJACENT PROPERTIES/DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. 304 MATERIAL OR OTHER ACCEPTABLE MATERIAL SHALL BE UTILIZED, AS DIRECTED BY THE ENGINEER.

HORIZONTAL AND VERTICAL ALIGNMENTS FOR LANES SHALL MEET 25MPH DESIGN STANDARDS PER THE ODOT L&D MANUAL, VOLUME 1.

ADDITIONAL NOTES: THE ENGINEER SHALL RESERVE THE RIGHT TO MODIFY SIGNAGE TO MEET CURRENT TRAFFIC CONDITIONS AT NO ADDITIONAL COST TO THE CITY OF TALLMADGE. IF, IN THE OPINION OF THE ENGINEER, PROPER TRAFFIC CONTROL IS NOT BEING PROVIDED OR MAINTAINED BY THE CONTRACTOR, THE APPROPRIATE TRAFFIC CONTROL DEVICES WILL BE INSTALLED BY THE OWNER. ALL COSTS WILL BE BORNE BY THE CONTRACTOR THROUGH A CHANGE ORDER DEDUCTION FROM THE PROJECT CONTRACT.

LOCAL ACCESS REQUIREMENTS:

- POLICE DEPARTMENT & FIRE DEPARTMENT OPERATIONS: THE CONTRACTOR SHALL AT ALL TIMES, REGARDLESS OF SPECIFIC DETOUR ROUTES, PROVIDE ACCESS TO POLICE AND FIRE PERSONNEL/EQUIPMENT ALONG ALL CONSTRUCTION ZONES WITHIN THE PROJECT. ACCESS SHALL BE A MINIMUM OF 10' IN WIDTH, WITH HARD PAVEMENT SURFACE CAPABLE OF SUPPORTING A 50,000 LB FIRE TRUCK.
- COMMERCIAL PROPERTIES: THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 50% OF THE ACCESS POINTS TO ALL COMMERCIAL PROPERTIES.
- RESIDENTIAL PROPERTIES: THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH EACH RESIDENCE, SUCH THAT ACCESS IS MAINTAINED TO EACH DRIVEWAY DURING NORMAL INGRESS/EGRESS TIMES. THESE TIMES WILL VARY PER RESIDENCE, DEPENDING UPON WORK SCHEDULES, BUS SCHEDULES, ETC. THE CONTRACTOR SHALL NOTIFY ALL RESIDENTS INDIVIDUALLY, IN WRITING, PRIOR TO CONSTRUCTION.
- OTHER ACCESS: MAIL DELIVERY, GARBAGE COLLECTION, SCHOOL BUS PICKUP/DROPOFF, PUBLIC TRANSIT SERVICE, AND OTHER NORMAL SERVICES TO PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. SPECIAL AGREEMENTS/CONSIDERATIONS CAN BE MADE BY THE CONTRACTOR PROVIDED IT IS IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO COMMENCING THE CHANGE.

THE CONTRACTOR SHALL BID ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN USING THE PLAN GUIDELINES ALONG WITH THE CONTRACTORS PLANNED CONSTRUCTION SCHEDULE AND PROCESS METHODS NECESSARY TO CONSTRUCT THE PROJECT.

THE LUMP SUM PRICE BID FOR THIS ITEM SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE THIS ITEM AS SPECIFIED AND REQUIRED HEREIN.

MODIFICATION TO EXISTING CONDITIONS: THE CONTRACTOR SHALL PROVIDE COSTS IN THE BID TO PROVIDE SIGNS, STRIPING, ETC., AS WELL AS THE REMOVAL AND RE-ERECTION OF MAILBOXES, SIGNS, OR OTHER OBJECTS THAT CONFLICT WITH THE CONTRACTOR'S PLAN TO MAINTAIN TRAFFIC. ALL COSTS FOR THIS WORK, WHICH SHALL BE INCLUSIVE OF ALL COSTS TO MEET THE MAINTENANCE OF TRAFFIC REQUIREMENTS, SHALL BE INCLUDED IN ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN.

PROJECT SPECIFIC NOTE:

THE CONTRACTOR IS PERMITTED TO CLOSE AND DETOUR NORTH THOMAS ROAD DURING DAYTIME WORKING HOURS. CONTRACTOR IS REQUIRED TO OPEN NORTH THOMAS ROAD TO ALL DIRECTIONS OF TRAVEL AT THE END OF EACH WORK DAY. ACCESS CAN BE PROVIDED BY TEMPORARY STEEL PLATES OVER ALL TRENCH OPERATIONS OUTSIDE OF WORKING HOURS. PROPER TEMPORARY TRAFFIC CONTROL MUST BE IN ACCORDANCE WITH THE OMUTCD AND ODOT STANDARD DRAWINGS.

REVISIONS

NO. DATE

DATE (2011)

SCALE

H 1"=20'

V 1"=5'

CITY/VILLAGE/TOWNSHIP

CITY OF TALLMADGE

COUNTY

SUMMIT COUNTY

CADD

CADD

PROJUMRS

ENG

ACS

PROJNUMBER

63882009

DATE

2/1/2024

SHEET

5 of 11

CITY OF TALLMADGE
ELTON DRIVE CULVERT
MAINTENANCE OF TRAFFIC NOTES

COPYRIGHT 2015 OHM ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF OHM AND THE SAME MAY NOT BE REPRODUCED, DISTRIBUTED, OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM

DRAWING PATH: P:\6101_6500\63882009_Tallmadge_Elton_Drive_Culvert\0001\OHM\23103-00-Engineering\Roadway\Sheet\23103-GH01 (General Notes).dwg Feb 01, 2024 - 10:23am

DRAWING PATH: P:\6101_6000\6062\2020_Tallmadge_Elton_Drive_Culvert\007-01\03-100-Engineering\Roadway\Sheet\21103-GM01.dwg File 01_2024 - 10:23am

- ALL CONSTRUCTION OF ANY PROJECT SHALL BE IN CONFORMANCE WITH CITY OF TALLMADGE'S CODIFIED ORDINANCE AND THE OHIO REVISED CODE.
- PERMIT FOR DRIVEWAY APPROACHES
 - ANY PERSON CONSTRUCTING A DRIVEWAY APPROACH WITHIN THE CORPORATION LIMITS OF THE CITY SHALL FIRST SECURE A PERMIT FROM THE ZONING DEPARTMENT. THE FEE FOR SUCH PERMIT, PAYABLE PRIOR TO THE ISSUANCE OF THE PERMIT, SHALL BE FIFTY DOLLARS (\$50.00).
 - THE PERMIT FEE SHALL INCLUDE THE COST OF ONE INITIAL PRECONSTRUCTION INSPECTION AND ONE REINSPECTION. EACH ADDITIONAL REINSPECTION IS SUBJECT TO A FEE OF THIRTY-FIVE DOLLARS (\$35.00).
 - REINSPECTION FEES SHALL BE PAID FOR AT THE TIME THE INSPECTIONS ARE SCHEDULED OR MAY BE APPLIED AGAINST THE CASH DEPOSIT REQUIRED IN SECTION 913.03 AT THE DISCRETION OF THE SERVICE DIRECTOR.

BASE: SIDEWALK AND DRIVE APRONS MUST HAVE A MINIMUM OF 4" THICK OF 57 LIMESTONE AGGREGATE BASE IN ACCORDANCE WITH ODOT CMS ITEM 57 OR AS DIRECTED BY THE CITY OF TALLMADGE INSPECTOR.

CURING & PROTECTION: AFTER IT HAS HARDENED SUFFICIENTLY TO PREVENT MARKING, THE CONCRETE SHALL BE COVERED WITH WET BURLAP, WHICH SHALL BE KEPT CONTINUOUSLY MOIST FOR 3 DAYS; A PIGMENTED LIQUID MEMBRANE CURING COMPOUND MAY BE USED IN LIEU OF THE BURLAP CURING. THE CONTRACTOR SHALL PROTECT THE WALK AGAINST DAMAGE OF ALL KINDS UNTIL THE WORK HAS BEEN ACCEPTED.

OTHER REQUIREMENTS: ALL VALVE BOXES, MANHOLE COVERS AND OTHER CASTINGS IN THE SIDEWALK AREA SHALL BE ADJUSTED TO THE GRADE OF THE WALK; ALL NEWLY CONSTRUCTED WALKS SHALL HAVE THE CONTRACTOR'S NAME IMPRINTED IN FRONT OF EACH LOT.

3. ASPHALT APPROACHES

ASPHALT APPROACHES SHALL BE INSTALLED AT A MINIMUM 5-INCH THICKNESS FOR RESIDENTIAL DRIVES AND 5 INCHES FOR COMMERCIAL DRIVES. SUB-BASE MATERIAL SHALL BE PROPERLY COMPACTED PRIOR TO ASPHALT PLACEMENT. PLACE ASPHALT ONLY IF THE SURFACE IS DRY AND IF WEATHER CONDITIONS ARE SUCH THAT PROPER HANDLING, FINISHING AND COMPACTION CAN BE ACCOMPLISHED. DO NOT PLACE ASPHALT IF THE SURFACE IS BELOW 36°F OR THE AMBIENT AIR TEMPERATURE IS BELOW 40°F. ASPHALT TEMPERATURES MUST BE AT A MINIMUM TEMPERATURE AT THE PAYER OF 250°F. THE SUB-BASE SHALL BE INSPECTED PRIOR TO THE PLACEMENT OF ASPHALT FOR PROPER DEPTH AND COMPACTION. SEE BELOW DIAGRAMS.

NOTE: WHERE POSSIBLE APPROACHES SHOULD BE CROSS SLOPED TO PREVENT RUNOFF FROM FLOWING ONTO THE ROADWAY.

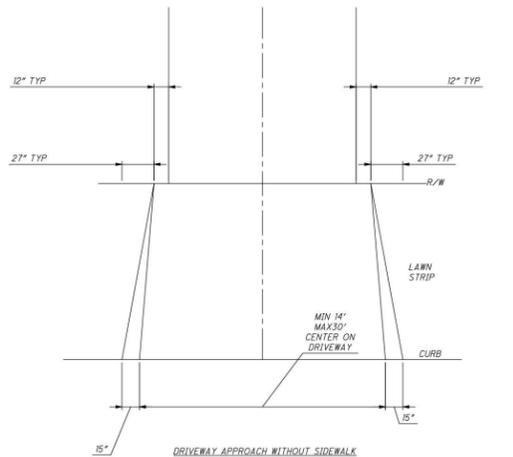
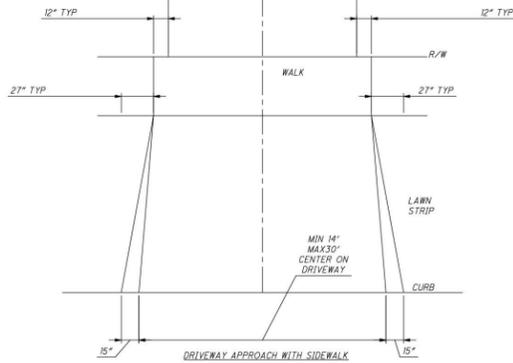
4. ELIMINATING DRIVEWAYS

ANY TIME THERE IS A DRIVEWAY INSTALLED OR DRIVEWAY REMOVED, THE EXISTING APRON LOCATION MUST BE RESTORED. THIS INCLUDES CURBING, SIDEWALK, AND LAWN RESTORATION.

***GRAVEL DRIVE REPAIR**

GRAVEL DRIVES SHALL BE INSTALLED AT A MINIMUM 6-INCH THICKNESS USING #57 LIMESTONE. THE SUB-BASE SHALL BE INSPECTED PRIOR TO THE PLACEMENT OF STONE FOR PROPER DEPTH AND COMPACTION. THE GRAVEL DRIVE SHALL BE INSPECTED FOR PROPER DEPTH AND COMPACTION UPON COMPLETION.

PLACING & FINISHING: WHILE BEING PLACED, THE CONCRETE SHALL BE TAMPED, SPADED AND SOREMEAD. AT THE PROPER TIME, THE SURFACE OF THE CONCRETE SHALL BE FINISHED WITH A FLOAT TO A WORKMANLIKE FINISH, SMOOTH AND EVEN, BUT WITH A SLIGHTLY ROUGH TEXTURE WHICH CAN BE ACCOMPLISHED BY BROOMING. SPECIAL CARE SHALL BE EXERCISED IN FINISHING ON EACH SIDE OF DIVIDER PLATES SO AS TO AVOID DIFFERENCE IN ELEVATION BETWEEN ADJACENT BLOCKS. THE TOP EDGES OF ALL BLOCKS SHALL BE ROUNDED WITH SUITABLE EDGING TOOLS.



DRIVEWAY DETAILS

REVISION DATE: 11-1-2021

TALLMADGE CITY DEVELOPMENT STANDARDS

(DV-1)

- ALL CONSTRUCTION OF ANY PROJECT SHALL BE IN CONFORMANCE WITH CITY OF TALLMADGE'S CODIFIED ORDINANCE AND THE OHIO REVISED CODE.
- ALL STORM SEWERS, STORM WATER DETENTION FACILITIES, AND ALL OTHER RELATED FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN CONFORMANCE WITH THE TALLMADGE STORMWATER MANAGEMENT MANUAL AND SUMMIT COUNTY ENGINEER STORMWATER DRAINAGE MANUAL.
- GENERAL
 - STORM SEWER STRUCTURES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FOLLOWING ODOT SPECIFICATIONS

STRUCTURE TYPE	SPECIFICATION
MANHOLE	MH-3
CURBED ROADWAY CATCH BASIN	CB-3A OR CB-6 IF IN DRIVEWAY
CURBED ROADWAY CATCH BASIN (SLUMP)	CB-3 OR DUAL CB-6 IF IN DRIVEWAY
DITCH CATCH BASIN	CB-2A/CB-2-2B

3. STORM SEWER

- STORM SEWERS IN THE RIGHT-OF-WAY SHALL BE HDPE CONDUIT MINIMUM (ODOT CMS 707.35) WITH RESILIENT AND FLEXIBLE GASKET JOINTS (ODOT CMS 707.35). STORM SEWER WITHIN EASEMENTS MAY BE HANGAR HI-O SURE-LOK PIPE (BELL & SPIGOT) AND SHALL BE PROPERLY ANCHORED AND INSTALLED IN ACCORDANCE WITH ASTM D-2521.
- CURB CUTS ARE THE RESPONSIBILITY OF THE CONTRACTOR OR OWNER. PERMITS & BONDS ARE REQUIRED. CURB CUTS MUST BE CUT PROFESSIONALLY IN ORDER TO GET BOND RETURNED. BONDS ARE RETURNED AFTER ACCEPTANCE.
- ALL YARD & DITCH INLETS MUST BE TO GRADE OF DITCH, STREET OR DEVIL-STRIP.
- ALL INLETS WITHIN CURBED AREAS USING STANDARD TYPE 2 CURBS AND COMBINED GUTTERS SHOULD BE EAST JORDAN HEAVY DUTY 7030 M2 GRATE WITH TYPE II BACK OR DUAL.
- ALL DRIVEWAY CULVERT PIPES, WHICH WILL BE INSTALLED BY THE CITY OF TALLMADGE, AND APPROVED DITCH ENCLOSURES DONE BY A CONTRACTOR OR OWNER MUST BE SIZED BY THE ENGINEER OR CITY OF TALLMADGE STREET DEPARTMENT SUPERINTENDENT. INSPECTIONS MUST BE MADE AND APPROVED. STORM SEWER PIPES MUST BE A MINIMUM OF 20" WIDE AND NO LONGER THAN 30' WIDE. COMMERCIAL DRIVEWAYS ARE A MINIMUM OF 20" WIDE AND NO WIDER THAN 45' UNLESS AUTHORIZED BY CITY OF TALLMADGE. 304 LIMESTONE MUST BE USED TO COMPACT AROUND CULVERT PIPES UNDER DRIVES. PLASTIC HOPE-ND MUST BE USED UNDER DRIVE APRONS. ALL ROOF DRAINS MUST DRAIN TO THE STREET OR DITCH DRAINAGE.
- ALL STORM SEWER PIPE, CASTINGS, INLET BASINS, CONCRETE BLOCK AND ANY OTHER MATERIALS TO BE USED ON THE PROJECT MUST BE INSPECTED BY THE CITY OF TALLMADGE ENGINEER'S OFFICE AT LEAST 48 HOURS BEFORE INSTALLATION.
- ALL STORM SEWERS SHALL BE COLOR VIDEOTAPED BY THE CONTRACTOR AND FOUND TO BE FREE OF DEFECTS AND FOREIGN MATTER AND TO BE OF PROPER ALIGNMENT PRIOR TO FORMAL ACCEPTANCE BY THE CITY OF TALLMADGE ENGINEER. ALL LATERAL LOCATIONS ARE TO BE NOTED, VIDEOTAPED AND A VIDEO LOG SUBMITTED TO THE CITY OF TALLMADGE.
- ALL PIPE BEDDING SHALL BE SPECIFIED IN ODOT ITEM 611. TRENCHES UNDER PROPOSED PAVEMENT AND/OR WITHIN THE RIGHT-OF-WAY SHALL HAVE PREMIUM BACKFILL AS PER THE DETAIL SHEET.

- PREMIUM GRANULAR BEDDING SUB-GRADE CONSISTING OF ODOT 304 LIMESTONE COMPACTED TO 98% DRY DENSITY, #57 OR #67 LIMESTONE, SHALL ALSO BE USED WHENEVER TWO UTILITIES CROSS WITH PROPER VERTICAL CLEARANCE. OTHERWISE, A MONOLITHIC CRADLE SHALL BE USED.
- STORM SEWER CONDUIT SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH ODOT ITEM 611. ADDITIONAL 6-INCH CUSHION OF #57 OR #67 LIMESTONE SHALL BE PLACED UNDER ALL STORM UTILITY LINES CONSTRUCTED ON ROCK. PRICES BID PER FOOT FOR ALL PIPES ARE COMPLETE IN PLACE REGARDLESS OF SOIL OR ROCK CONDITIONS.
 - ALL EXCAVATION WITHIN EXISTING PAVEMENT SHALL BE FILLED WITH CONTROLLED DENSITY FILL (LOW STRENGTH MORTAR) PER ODOT CMS. VISCOUSEEN MUST BE USED BETWEEN THE ASPHALT CONCRETE BASE AND COF/AND. AFTER CONTROLLED DENSITY FILL HAS CURED ASPHALT MUST BE INSTALLED (SEE PAGE TR-1 FOR DETAILS). AC MUST BE USED TO SEAL EDGES OF REPAIR.
 - REPAIR OF EXISTING PAVEMENTS IN TRENCH AREAS SHALL CONFORM TO THE DETAILS SHOWN ON SHEET TR-1 OF THE TALLMADGE CONSTRUCTION DRAWINGS.
 - ROOF DRAIN TIE IN ANY TIE IN THAT IS MADE INTO AN EXISTING COLLECTOR DRAINAGE SYSTEM MUST FOLLOW PROCEDURE OF CUTTING OUT COLLECTOR DRAINAGE AND INSTALL A 6" WY TEE WITH A 45 FITTING. ALL CONNECTIONS MUST BE DONE USING A RUBBER BOOT FERROCO COUPLING.

4. PRECAST STORM SEWER MANHOLE

- WITH NORMAL SOIL AND SITE CONDITIONS, STANDARD PRECAST MANHOLE MAY BE USED FOR REQUIRED MANHOLE DEPTH.
- SECTIONS OF THE PRECAST MANHOLE SHALL BE CAST AND ASSEMBLED WITH EITHER ALL TONGUE OR ALL GROVE ENDS UP.
- LIFT HOLES MAY BE PROVIDED IN EACH SECTION FOR HANDLING.
 - TOP AND TRANSITION (OR REDUCER) SECTIONS MAY BE EITHER ECCENTRIC CONE OR FLAT SLAB.
- BASES - BASES FOR MANHOLES ARE SHOWN WITH MONOLITHIC FLOOR AND RISER WHICH MAY BE CAST IN ONE OR TWO OPERATIONS. A PERMISSIBLE ALTERNATE IS TO CAST AND SHIP THE FLOOR AND BARREL SEPARATELY. OPENINGS FOR INLET AND OUTLET PIPES SHALL BE PROVIDED, EITHER WHEN THE UNIT IS CAST OR LATER, TO MEET PROJECT REQUIREMENTS. BOTTOM CHANNELS MAY BE FORMED OF CONCRETE PRECAST IN THE BASE OR BY FIELD CONSTRUCTION.
- OPENINGS IN RISER SECTIONS FOR 18-INCH AND SMALLER INLET PIPES SHALL BE PREFABRICATED OR CUT IN THE FIELD, PROVIDED THE SIDES OF PIPE AT THE SPRINGLINE DO NOT PROJECT INTO THE MANHOLE.
- MATERIALS FOR BASES AND OTHER PRECAST SECTIONS, INCLUDING REINFORCEMENT NOT SPECIFIED, SHALL COMPLY WITH THE REQUIREMENTS OF ODOT 706.13.
 - STEPS, FRAMES AND COVERS SHALL CONFORM WITH THE REQUIREMENTS SET FORTH AS PER ODOT SCD MH-1.1.

5. HEADWALLS

- CONCRETE FOR HEADWALLS SHALL BE CLASS "C". CONCRETE QUANTITIES ARE BASED ON HEADWALLS

- WITHOUT THE 6" EXTENSION UNDER THE INLET CHANNEL PROTECTION.
- WITH NORMAL SOIL AND SITE CONDITIONS, STANDARD PRECAST MANHOLE MAY BE USED FOR REQUIRED MANHOLE DEPTH.
 - 4-B HALF-HEIGHT HEADWALLS SHALL BE CONSTRUCTED PER ODOT SCD HW-2.2
 - 4-B NO. 1 FULL HEIGHT HEADWALLS SHALL BE CONSTRUCTED PER THE FOLLOWING:
 - CONCRETE SHALL BE CLASS "C"
 - REINFORCING STEEL BARS SHALL BE 5/8-INCH ROUND.
 - DIMENSIONS AND QUANTITIES (ONE SHOWN FOR CIRCULAR SECTIONS ONLY). IT WILL BE NECESSARY TO DETERMINE DIMENSIONS FOR THE NO. 1 HEADWALL REQUIRED FOR REINFORCED ELLIPTICAL CONCRETE PIPE OR CORRUGATED METAL PIPE ARCHES IN ACCORDANCE WITH THE EQUATIONS LISTED ON THIS DRAWING. CHAMFER ALL EXPOSED CORNERS 3/4 OF AN INCH.
 - FOUNDATION WHERE THE SOIL BORINGS INDICATE A BEARING CAPACITY OF LESS THAN 2800 POUNDS PER SQUARE FOOT, IT WILL BE NECESSARY TO INCREASE THE WIDTH OF THE BASE.

DIAMETER	DIMENSIONS		QUANTITIES ONE HEADWALL	
	H	L	CONCRETE CU. YDS.	REINFORCING STEEL LBS
15"	5'-2"	7'-0"	1.7	41
18"	5'-5"	8'-4"	2.2	57
21"	5'-8"	9'-8"	2.8	62
24"	5'-11"	11'-0"	3.3	69
30"	6'-5"	13'-8"	4.7	92
36"	7'-0"	16'-4"	6.5	105

L	R	H	FORMULA	
			CIRCULAR SECTIONS	SD+RT
L	L	H	ELLIPITICAL OR PIPE-ARCH	4R+4T+3
H	H	H	CIRCULAR SECTIONS	D+T+44*
H	H	H	ELLIPITICAL OR PIPE-ARCH	R+T+44*

D = DIAMETER OF PIPE T = THICKNESS OF PIPE
R = RISE OF PIPE L = LENGTH OF HEADWALL
S = SPAN OF PIPE H = HEIGHT OF HEADWALL

6. CATCH BASINS

- STANDARD 2-2A/2-2B CATCH BASINS SHALL BE CONSTRUCTED PER ODOT SCD CB-2-2A/2-2B EXCEPT AS MODIFIED HEREIN:
 - CAST IN PLACE CONCRETE SHALL BE CLASS C.
 - LOCATION AND ELEVATION WHEN GIVEN ON THE PLANS IS THE TOP CENTER OF THE GRATE. WHEN SIDE OPENINGS ARE PROVIDED, ELEVATION SHALL BE THE FLOW LINE OF THE SIDE INLET.
- STANDARD 2-3/2-4 CATCH BASINS SHALL BE CONSTRUCTED PER ODOT SCD CB-2-3/CB-2-4 EXCEPT AS MODIFIED HEREIN

- STORM SEWER LATERALS
 - A ROOF COLLECTOR SYSTEM SHALL BE INSTALLED FOR THE CONNECTION OF FOUNDATION AND ROOF DOWNSPOUT DRAINS ONLY. PVC PIPE (ODOT CMS, ASTM D-3034, SDR-35) SHALL BE USED FOR ROOF COLLECTOR SYSTEM WHERE SHOWN ON THE PLANS. LOTS SHALL HAVE A 6-INCH PVC LATERAL EXTENDED INSIDE THE PROPERTY LINE, CAPPED AND STAKED. PER SHEET SD-7 OF THE TALLMADGE CONSTRUCTION DRAWINGS, THE LATERAL MUST BE CONNECTED TO THE ROOF COLLECTOR SYSTEM. THE LATERAL ALSO MUST INCLUDE A TWO WAY CLEAN OUT WY TEE WITH A VERTICAL 6" PVC TO GRADE OF THE YARD. THE CLEAN OUT TEE MUST HAVE A 6" GASKET JOINT CAP FLUSH WITH FINISH GRADE OF THE YARD. THE ROOF COLLECTOR SYSTEM SHALL BE INSTALLED CONTINUOUSLY ON BOTH SIDES OF THE STREET TO EACH CATCH BASIN. FOUNDATION DRAINS AND OTHER CLEAR WATER DRAINS ARE PROHIBITED FROM DRAINING INTO GUTTERS. NEW ALLOTMENTS MUST PROVIDE A 6% PLASTIC OR FIBERGLASS DRAINPIPE FOR CLEAR WATER DRAINS, 1500 LBS. CRUSH STRENGTH, CONNECTED INTO STORM SEWER. PIPE MUST BE BEDDED IN 4" OF 57 LIMESTONE, AND BACKFILLED 12" ABOVE PIPE WITH 57 LIMESTONE.
 - ROOF DRAIN TIE IN ANY TIE IN THAT IS MADE INTO AN EXISTING COLLECTOR DRAINAGE SYSTEM MUST FOLLOW PROCEDURE OF CUTTING OUT COLLECTOR DRAINAGE AND INSTALL A 6" WY TEE WITH A 45 FITTING. ALL CONNECTIONS MUST BE DONE USING A RUBBER BOOT FERROCO COUPLING.

NOTE: WHERE POSSIBLE APPROACHES SHOULD BE CROSS SLOPED TO PREVENT RUNOFF FROM FLOWING ONTO THE ROADWAY.

6. DITCH MAINTENANCE

- DITCH CLEANING SHALL CONSIST OF THE REMOVAL OF ALL DEBRIS FROM EXISTING DITCHES AND MINOR REGRADING OF DITCH BOTTOMS TO PROVIDE POSITIVE FLOW.
- ALL AREAS OF DISTURBED SOIL SHALL BE SEEDED AND MULCHED AS PER ODOT ITEM 659 SEEDING AND MULCHING.
- WITHIN 50' OF SURFACE WATER OF THE STATE MUST BE STABILIZED WITHIN 2 DAYS.
- NOT WITHIN 50' OF SURFACE WATER OF THE STATE MUST BE STABILIZED WITHIN 7 DAYS.
- STRAW MATTING SHALL BE PLACED AS NEEDED TO SECURE SLOPES AND BELLIES.

STORMWATER DETAILS

REVISION DATE: 11-1-2021

TALLMADGE CITY DEVELOPMENT STANDARDS

(ST-1)

OHM
ARCHITECTS ENGINEERS PLANNERS
388 S. MAIN ST., SUITE 301
AKRON, OH 44311
330.913.1080
OHM-ADVISORS.COM

STATE OF OHIO
ALEX CARMEN
SAVA
PE. 85109
REGISTERED PROFESSIONAL ENGINEER
Alex C. Sava, PE
Ohio Professional Engineer
#85109

DATE: 2/1/2024
PROJ NUMBER: 638820209
ENG: ACS
CADD: JLS
CADD: JLS
CITY: CITY OF TALLMADGE
COUNTY: SUMMIT COUNTY
SCALE: V. NA
SCALE: V. NA
SHEET: 9 of 11

CITY OF TALLMADGE
ELTON DRIVE CULVERT
CITY OF TALLMADGE GENERAL NOTES & DETAILS

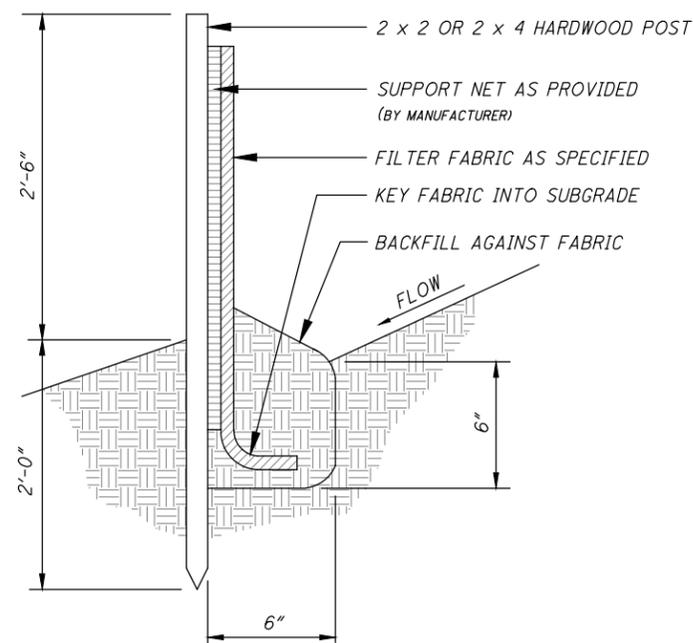
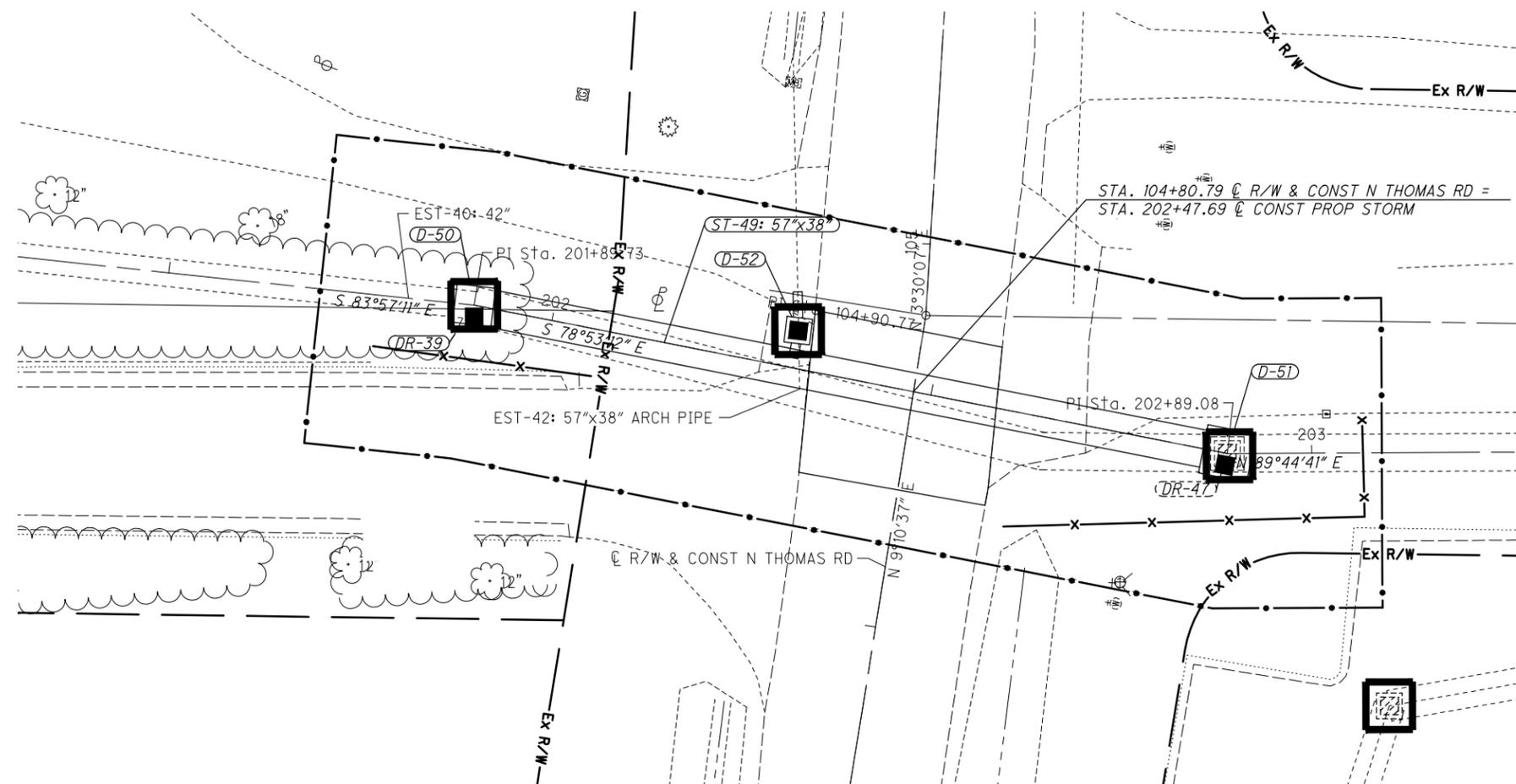
COPYRIGHT 2015 OHM ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF OHM AND THE SAME MAY NOT BE REPRODUCED, DISTRIBUTED, OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM



SCALE FULL SIZE: 1"=5'
0 5 10 15 20

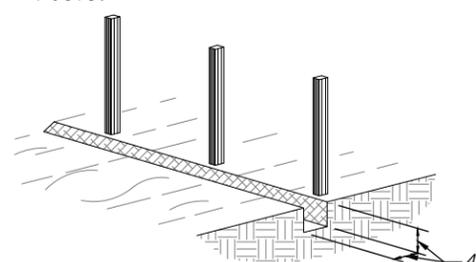
OHM
ARCHITECTS ENGINEERS PLANNERS
388 S. MAIN ST., SUITE 301
AKRON, OH 44311
330.913.1080
OHM-ADVISORS.COM

STATE OF OHIO
ALEX CARMEN
SAVA
PE #85109
REGISTERED PROFESSIONAL ENGINEER
Alex C. Sava
Alex C. Sava, PE
Ohio Professional Engineer
#85109

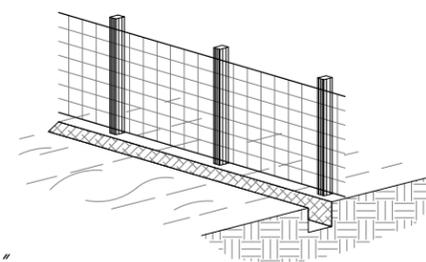


TYPICAL SILT FENCE DETAIL
NOT TO SCALE

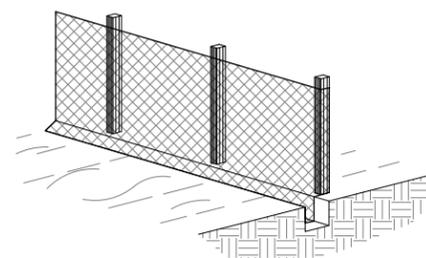
1. SET POSTS AND EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



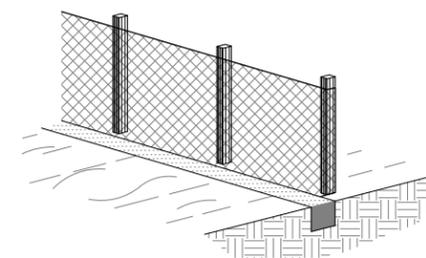
2. STAPLE WIRE FENCING TO THE POST.



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



SILT FENCE INSTALLATION DETAIL
NOT TO SCALE

STORM WATER POLLUTION PREVENTION GENERAL NOTES

- ALL WORK SPECIFIED AS AN O.D.O.T. ITEM SHALL BE GOVERNED BY THE CURRENT STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. ALL OTHER ITEMS SHOULD CONFORM TO SPECIFICATIONS CONTAINED IN THE O.D.N.R. MANUAL - RAINWATER AND LAND DEVELOPMENT 2006).
- THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN EROSION IS ENCOUNTERED, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUESTED BY THE OWNER, CITY/VILLAGE ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- ALL EROSION AND SEDIMENTATION CONTROL ITEMS SHALL BE INSTALLED AS SHOWN ON THE STORM WATER POLLUTION PREVENTION DETAIL SHEET(S).
- EROSION CONTROL MEASURES SHALL BE INSTALLED AROUND ALL DIRT OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND EROSION CONTROL ITEMS AT ALL TIMES.



0 X 2X

NOTATION	SYMBOL	ITEM REFERENCE
(IP)		INLET PROTECTION
(LC)		LIMITS OF CONSTRUCTION
(SF)		SILT FENCE

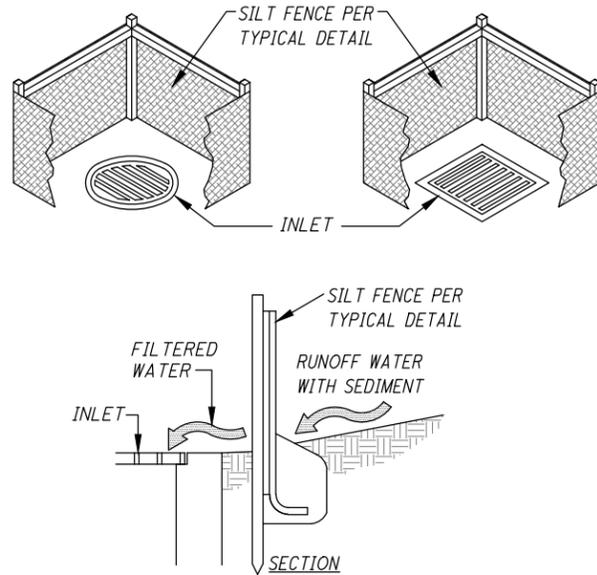
REVISIONS:
HORIZ. DATUM: VERT. DATUM:
SCALE: SCALE: V: 1"=5' H: 1"=20'
CITY/VILLAGE/TOWNSHIP: CITY OF TALLMADGE
COUNTY: SUMMIT COUNTY
CADD: CADD:
PROJ. NO.: 68862009
DATE: 2/2024

CITY OF TALLMADGE
ELTON DRIVE CULVERT
SWPPP

DRAWING PATH: P:\6101_6500\68862009_Tallmadge_Elton_Drive_Culvert\0001\04\23\103-100-Engineering\Roadway\Sheet\23103-0501.dwg File 01, 2024 - 10:23am

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVER- LAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL.



INLET SEDIMENT PROTECTION

NOT TO SCALE

SedCatch® SedCage® - Yard Inlet Protection

LEGEND

SC	SedCage®
----	----------

SIZING INSTRUCTIONS:
MEASURE THE DIAGONAL DIMENSION OF THE GRATE. SELECT A CAGE THAT IS AT LEAST 1" LARGER.

COMPATIBLE GRATES:
A SedCage® IS COMPATIBLE WITH ALL GRATES IN WHICH THE EDGES OF THE GRATE ARE SUPPORTED BY A LEDGE.

SIZES:

- 32" SedCage®
FITS SQUARE GRATES FROM 12" X 12" THROUGH 22" X 22"
FITS ROUND GRATES FROM 8" DIA. THROUGH 24" DIA.
FITS RECTANGULAR GRATES WITH A DIAGONAL BETWEEN 17" AND 31" ($a^2 + b^2 = c^2$)
 - 42" SedCage®
FITS SQUARE GRATES FROM 19" X 19" THROUGH 29" X 29"
FITS ROUND GRATES FROM 13" DIA. THROUGH 30" DIA.
FITS RECTANGULAR GRATES WITH A DIAGONAL BETWEEN 28" AND 41" ($a^2 + b^2 = c^2$)
 - 54" SedCage®
FITS SQUARE GRATES FROM 24" X 24" THROUGH 36" X 36"
FITS ROUND GRATES FROM 24" DIA. THROUGH 40" DIA.
FITS RECTANGULAR GRATES WITH A DIAGONAL BETWEEN 32" AND 53" ($a^2 + b^2 = c^2$)
 - 62" SedCage®
FITS SQUARE GRATES FROM 27" X 27" THROUGH 42" X 42"
FITS ROUND GRATES FROM 28" DIA. THROUGH 48" DIA.
FITS RECTANGULAR GRATES WITH A DIAGONAL BETWEEN 44" AND 61" ($a^2 + b^2 = c^2$)
- CUSTOM SIZES AVAILABLE

FLOOD WATER CLEAR OPENING:

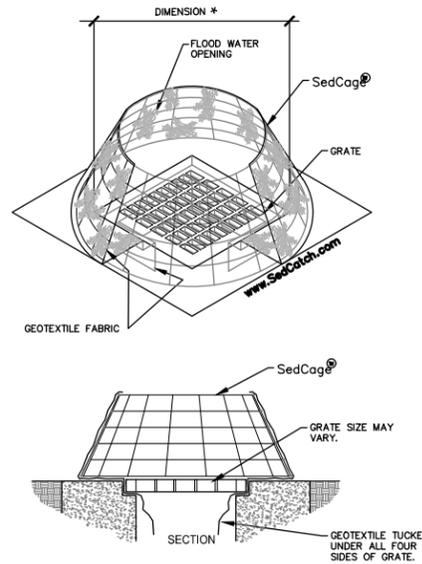
- 32" SedCage 230 sq.in.
- 42" SedCage 515 sq.in.
- 54" SedCage 1075 sq.in.
- 62" SedCage 1320 sq.in.

US PATENT D 620,999, OTHER PATENTS PENDING

- INLET PROTECTION SHALL BE INSTALLED AT THE TIME THE STRUCTURE IS SET.
- TO INSTALL: TUCK FABRIC UNDER GRATE.
- REMOVE SEDIMENT IF IT ACCUMULATES TO ONE HALF THE HEIGHT OF THE SedCage®.
- THE AREA AROUND THE SedCage® SHOULD BE AS FLAT AS POSSIBLE TO INCREASE EFFECTIVENESS AND REDUCE MAINTENANCE REQUIREMENTS.
- AS WITH ALL INLET PROTECTION DEVICES, CHECK TO SEE HOW DEEP THE WATER COULD RISE IF THE INLET WERE BLOCKED ENTIRELY. DO NOT INSTALL IN LOCATIONS THAT COULD CAUSE PROPERTY DAMAGE OR POSE A SAFETY HAZARD TO TRAFFIC.

SEDATCH - SEDCAGE YARD INLET PROTECTION

NOT TO SCALE



SedCatch® Environmental Products
www.SedCatch.com

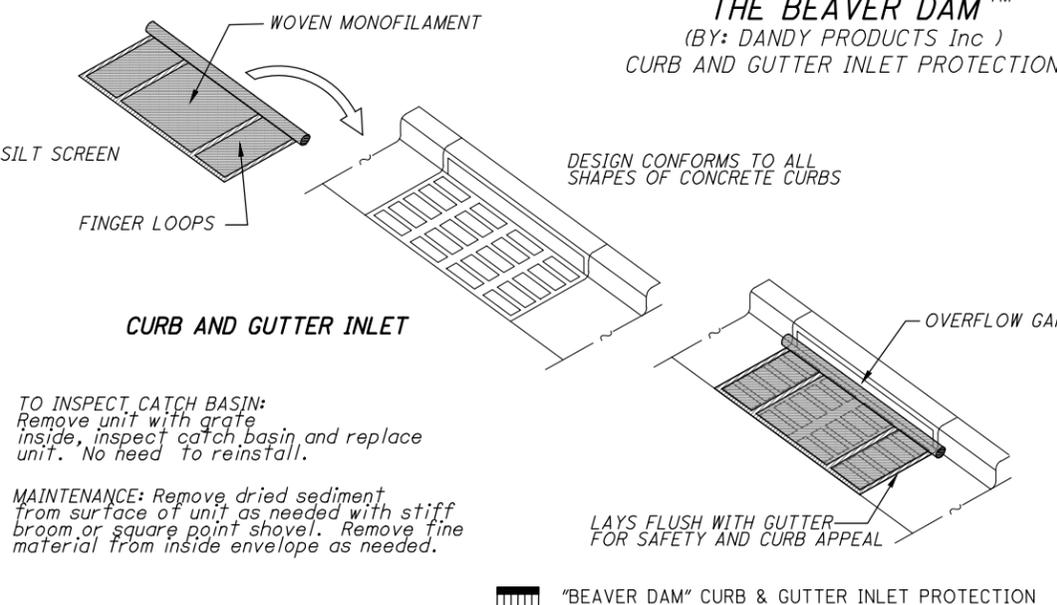
Meets ASTM D8057 standards

FLEXSTORM FX FABRIC SPECS
Woven Geotextile Filter Bag Properties (Minimum Average Roll Values)

PROPERTY	TEST METHOD	ENGLISH	METRIC
TENSILE STRENGTH	ASTM D4832	950 x 225 lbs	1557 x 1021 N
ELONGATION	ASTM D4832	20% x 15%	20% x 15%
CBR PUNCTURE	ASTM D6241	1000 lbs	4448 N
TRAPEZOIDAL TEAR	ASTM D4533	110 x 75 lbs	483 x 334 N
ENDURANCE			
UV RESISTANCE	ASTM D4355	90%	90%
% RETAINED AT 500 HRS			
HYDRAULIC APPARENT OPENING SIZE (AOS)	ASTM D4751	20 US STD SIEVE	.850 mm
PERCENT OPEN AREA (POA)	CW-0215-M002	17%	17%
PERMITTIVITY	ASTM D4481	1.5 Sec ⁻¹	1.5 Sec ⁻¹
WATER FLOW RATE	ASTM D4481	200 gpd/min/ft ²	8145 L/min/m ²

ADS - FLEXSTORM CATCH-IT LITE

NOT TO SCALE

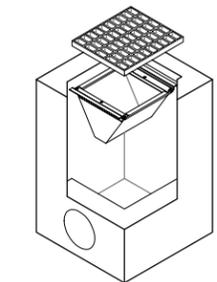


BEAVER DAM™

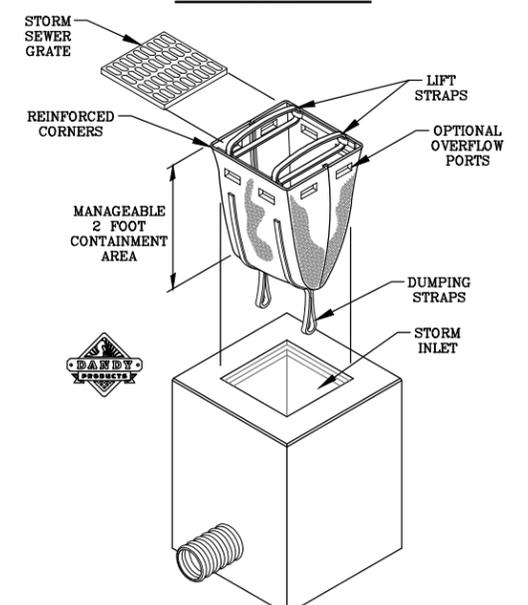
NOT TO SCALE



- Installation Instructions:**
- Remove grate from the drainage structure
 - Clean stone and dirt from ledge (lip) of drainage structure
 - Drop the FLEXSTORM inlet filter through the clear opening such that the hangers rest firmly on the lip of the structure.
 - Replace the grate and confirm it is not elevated more than 1/8", the thickness of the steel hangers.



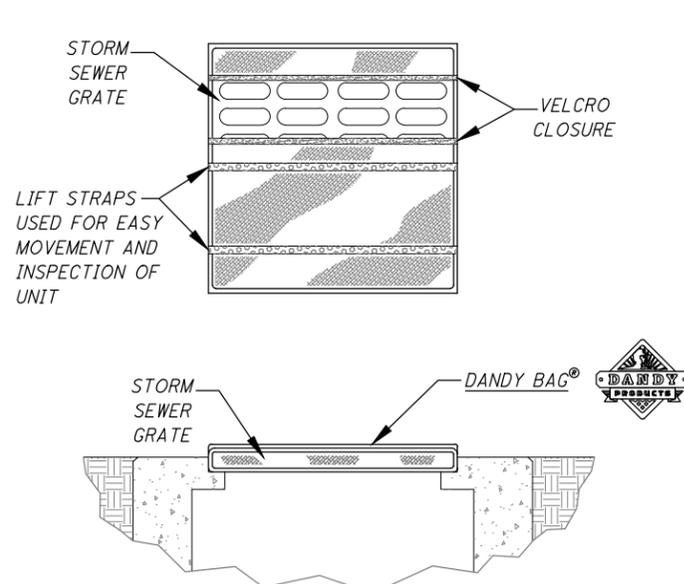
DANDY SACK™



DANDY SACK SEDIMENT PROTECTION

NOT TO SCALE

DANDY BAG®



DANDY BAG SEDIMENT PROTECTION

NOT TO SCALE

OHM
ARCHITECTS ENGINEERS PLANNERS
388 S. MAIN ST., SUITE 301
AKRON, OH 44311
330.913.1080
OHM-ADVISORS.COM

STATE OF OHIO
ALEX CARMEN
SAVA
PE .85109
REGISTERED
PROFESSIONAL ENGINEER
Alex C. Sava, PE
Ohio Professional Engineer
#85109

REVISIONS:

NO. 1	DATE	DESCRIPTION
1	2/1/2024	ISSUED FOR PERMIT

CITY OF TALLMADGE
ELTON DRIVE CULVERT
SWPPP DETAILS