CITY OF ANN ARBOR
ENGINEERING

NOTES:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

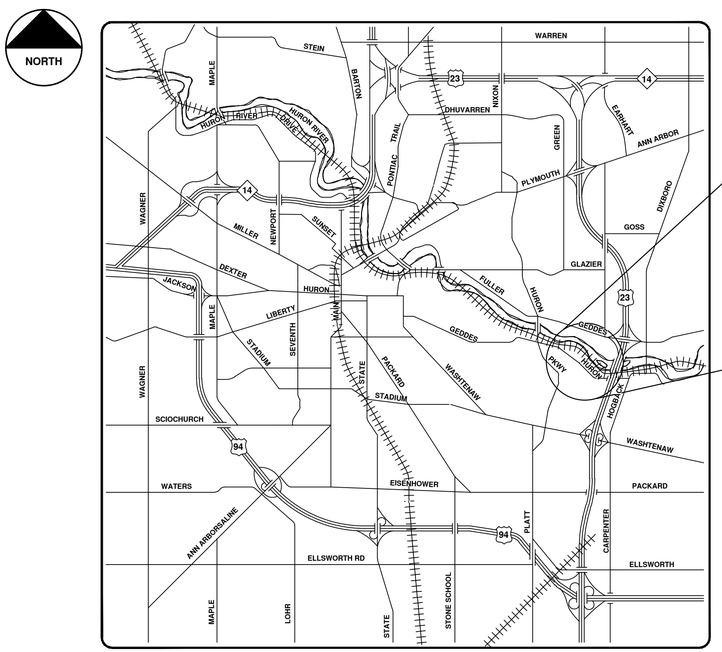
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 2025 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, IT'S DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

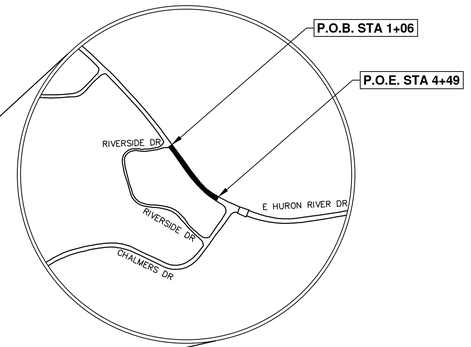
E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION

RFP No. 26-02, FILE No. 2025-26

Sheet List Table	
Sheet Number	**Sheet Title**
1	COVER SHEET
2	GENERAL NOTES
3	LEGEND
4	TYPICAL CROSS SECTION
5	REMOVAL AND SESC PLAN
6	RETAINING WALL CONSTRUCTION
7	ROAD CONSTUCTION
8	MAINTENANCE OF TRAFFIC PLAN
9	RETAINING WALL DETAILS - 1
10	RETAINING WALL DETAILS - 2
11	SOIL BORING MAP AND PROFILE
12	SOIL BORING LOGS 1 TO 3
13	SOIL BORING LOGS 4 TO 7
14	SOIL BORING LOGS 7A TO 11A
15	SOIL BORING LOGS 12 TO 14



VICINITY MAP



TRAFFIC DATA

HURON RIVER RD	2026	2046
A.D.T. (TWO WAY)	5218	6367
% COMMERCIAL	3%	3%
DESIGN SPEED	40 MPH	
POSTED SPEED	35 MPH	

PREPARED UNDER THE SUPERVISION OF

STATE OF MICHIGAN ALAN P. LOEBACH ENGINEER No. 43301 REGISTERED PROFESSIONAL ENGINEER

12 / 12 / 2025
ALAN LOEBACH, P.E. — DATE
PROJECT MANAGER

CITY APPROVAL

STATE OF MICHIGAN JEREMY J. SCHROT ENGINEER No. 59414 REGISTERED PROFESSIONAL ENGINEER

12 / 12 / 2025
JEREMY SCHROT, P.E. — DATE
PROJECT MANAGER

811 Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
(734) 794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION
RIVERSIDE DR TO CHALMERS RD
COVER SHEET

SCALE

DRAWING No. AA23004-1

SHEET No. 1 OF 15

CONSTRUCTION NOTES:

1. Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
3. Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
4. The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
5. During non-working hours no trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".
6. Trenches for new water services shall be excavated to MIOSHA and City of Ann Arbor Public Works requirements.
7. City of Ann Arbor Public Works will install the corporation and copper service lead(s) to transfer the connection(s). If an existing water service is found to be failing or is not copper, the lead will be replaced to the curb box by Public Works.
8. For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays due to the scheduling of or coordination with the City of Ann Arbor Public Works.
9. The Contractor shall backfill trenches in accordance with Trench Detail specified on plans. This work shall be included in the item of work "Excavate and Backfill for Water Service Tap and Lead". All concrete removals and replacements required for this work will be paid for separately.
10. All ductile iron pipe and fittings shall be polyethylene wrapped per ANSI/AWWA C105/A21.5.
11. Cor-blu bolts to be used at all mechanical water main joints at hydrants and Megalug fittings
12. The Contractor shall construct, flush, and bacteriologically test the water main per Detailed Specification "Water Main Installation and Testing" and as approved by the Engineer. All chlorinated water shall be discharged directly into an approved sanitary sewer. The Contractor shall supply all necessary hoses, fittings and the like to accomplish this work.
13. Water main fittings, other than those specifically listed as separate pay items, which are required to complete the work, such as blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.
14. "No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specifications.
15. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
16. All fittings, hydrants, valves and castings removed during construction are the property of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
17. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
18. The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".
19. All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
20. Sawed sewer pipe connections shall be coupled with a Fernco flexible coupling and a stainless steel shear ring.
21. The location of material stock piles and on-site staging areas to be approved by the Engineer.
22. For mainline paving, the width of the mat for each pass of the paver shall be not less than 10.5' or greater than 15', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
23. All structures shall receive new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
24. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
25. Where sewer pipes of different sizes or materials are joined, Fernco flexible couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
26. Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using Trench Detail detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
27. Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in "Machine Grading, Modified"
28. In areas where edge drain cannot be installed in accordance with City of Ann Arbor Detail SD-TD-11, the edge drain shall be installed at the depth as indicated on the plans, or as directed by Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth of less than 2' below top of proposed pavement.

TEMPORARY SEEDING:

1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUILT UPON BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZED PER SPECIFICATIONS.

THE ESTIMATED COST OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, TOPSOIL, SEEDING, AND MULCH = $8,026.00

AREA OF PROPOSED DISTURBANCE = 0.41 ACRES

CITY OF ANN ARBOR STANDARDS USED

DRAWING NO.	SHEET TITLE
SD-GU-1	STANDARD CASTING SCHEDULE
SD-GU-7	MANHOLE AND VALVE MOMENT BOX LOWERING
SD-ST-4	PRECAST HIGH CAPACITY INLET
SD-CG-1	BARRIER CURB AND GUTTER
SD-DS-4	SIDEWALK AND CURB & GUTTER JOINTS
SD-SESC-3	SILT FENCE
SD-SESC-4	MULCH BLANKET
SD-SESC-6	STANDARD SESC NOTES
SD-SESC-7	SEQUENCE OF SESC MEASURES
SD-TD-1	UTILITY TRENCH - TYPE I
SD-TD-3.1	UTILITY TRENCH SURFACE RESTORATION EDGE DRAIN

MDOT STANDARDS USED

DRAWING NO.	SHEET TITLE
R-35-E	CONCRETE SHOULDER GUTTER AND SPILLWAY
R-60-J	GUARDRAIL, TYPES A, B, BD, T, TD, MGS-8, & MGS-8D
R-86-F	PRECAST CONCRETE END SECTION FOR PIPE CULVERT

EGLE NPS BMP MANUAL USED

RIRPRAP-STABILIZED OUTLET (V2012.12.5)

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
So	Sloan silt loam, 0 to 1 percent slopes, frequently flooded	0.5	16.1%
StB	St. Clair clay loam, 2 to 6 percent slopes	0.1	3.2%
StE	St. Clair clay loam, 18 to 35 percent slopes	2.0	69.6%
W	Water	0.3	11.1%
Totals for Area of Interest		**2.9**	**100.0%**

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT*	CITY OF ANN ARBOR ENGINEERING
"NO PARKING" SIGNS PERMIT*	CITY OF ANN ARBOR ENGINEERING
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
INDIVIDUAL CONSTRUCTION PERMIT* (FOR DETOUR SIGNS ALONG US-23 AND M-17)	MICHIGAN DEPARTMENT OF TRANSPORTATION (CITY OF ANN ARBOR TO OBTAIN)

* NO COST TO CONTRACTOR

CONTACT INFORMATION

PUBLIC UTILITIES	OWNER	CONTACT
WATER SANITARY STORM FORESTRY	CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
SIGNS SIGNALS STREET LIGHTS		MARK MORENO (734) 794-6361
FIBER OPTIC	CITY OF ANN ARBOR INFORMATION TECHNOLOGY LARCOM CITY HALL 301 E. HURON STREET ANN ARBOR, MI 48107	(734) 794-6550
PRIVATE UTILITIES	**OWNER**	**CONTACT**
GAS	DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198	ROBERT CZAPIEWSKI (734) 544-7818
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	ANTHONY IGNASIAK (734) 397-4447
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SOUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	MARC GOODELL (313) 405-0574
FIBER OPTIC	MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016
FIBER OPTIC	WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532	GREG SERICH (810) 244-3500
STREET LIGHTING	DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	LANCE ALLEY (734) 397-4188

MISCELLANEOUS QUANTITIES NOT INCLUDED ON FOLLOWING SHEETS

ITEM	QTY	UNIT
General Conditions, Max. $50,000.00	1	LS
Project Supervision, Max. $10,000.00	1	LS
Project Clean-Up and Restoration	1	LS
Digital Audio Visual Coverage	1	LS
Minor Traffic Control, Max $10,000.00	1	LS
Traffic Regulator Control	1	LS
Tree, Rem, 6 In. - 12 In.	2	Ea
Tree, Rem, 13 In. - 19 In.	2	Ea
DS_Clearing	0.2	Ac
Exploratory Excavation, SD-TD-1, (0-10' Deep)	3	Ea
DS_Granular Backfill	1000	Cyd

E. HURON DRIVE RETAINING WALL BENCHMARKS

BM #	STA	OFFSET	ELEV	DESCRIPTION
100	6+15.6	R 27.0'	758.620	WCRC DRAIN DISK IN TOP OF BRIDGE ABUTMENT. LOCATED AT THE SOUTHEAST CORNER OF EAST HURON DRIVE AND CHALMERS DRIVE.
101	1+30.4	R 10.6'	772.125	SET CHISELED X IN THE NORTH RIM OF SANITARY MANHOLE (STRUCTURE #1). LOCATED AT THE SOUTHWEST CORNER OF EAST HURON DRIVE AND RIVERSIDE DRIVE.
102	-1+41.7	L 14.5'	773.265	SET CHISELED X IN THE MIDDLE OF STEEL GUARD RAIL POST. LOCATED ON THE EAST SIDE OF EAST HURON DRIVE AT THE NORTHERLY END OF THE GUARDRAIL.

811 Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
(734) 794-6320
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION

RIVERSIDE DR TO CHALMERS RD

GENERAL NOTES

SCALE PLAN: NTS

DRAWING No. AA23004-2

SHEET No. 2 OF 15

J:\AA\Design\AA23004 - E. Huron River Drive Retaining Wall\DWG\AA23004_Cov.dwg - _a2 standard bw.stb - Plot Date: 12/12/2025 2:08:45 PM

EXISTING LEGEND

EX = EXISTING

- FIRE HYDRANT
- GATE VALVE IN BOX
- GATE VALVE IN WELL
- STOP BOX
- WATER VAULT
- WELL
- CATCH BASIN (SQ)
- CATCH BASIN (RD)
- STORM MANHOLE
- NON-CURB CATCH BASIN (SQ)
- END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- POST
- PEDESTRIAN SIGNAL
- SIGN
- HAND HOLE
- ORNAMENTAL LIGHT
- FLOOD LIGHT
- UNKNOWN MANHOLE
- TELEPHONE MANHOLE
- TELEPHONE RISER
- GAS VALVE
- GAS VENT
- GAS BOX
- ELECTRICAL RISER
- TRANSFORMER
- UTILITY POLE
- LAMP POLE
- GUY ANCHOR
- GUY POLE
- MONITORING WELL
- MAILBOX
- SOIL BORING
- TRAVERSE POINT
- BENCH MARK
- IRON PIPE
- MON BOX

- WATER MAIN
- WATER MAIN ABANDONED
- STORM SEWER
- STORM SEWER ABANDONED
- SANITARY SEWER
- SANITARY SEWER ABANDONED
- GAS MAIN
- GAS MAIN (DEAD)
- ELECTRICAL OVER HEAD
- ELECTRICAL UNDER GROUND
- ELECTRICAL DUCT BANK
- TELEPHONE OVER HEAD
- TELEPHONE UNDER GROUND
- TELEPHONE DUCT BANK
- CABLE TV OVER HEAD
- CABLE TV UNDER GROUND
- FIBER OPTIC
- FIBER OPTIC DUCT BANK
- BOUNDARY
- BUILDING
- CENTERLINE OF DITCH
- CENTERLINE/CROWN OF ROAD
- CONTOUR MAJOR
- CONTOUR MINOR
- EDGE OF WATER
- FLOODPLAIN
- FENCE
- GRAVEL
- GUARDRAIL
- STONE WALL
- R.O.W.
- TREELINE
- WETLAND
- EDGE OF BRUSH
- HEDGE

- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- SHRUB (DECIDUOUS)
- STUMP
- TREE TO REMAIN & PROTECT (DECIDUOUS)
  CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10
- TREE TO REMAIN & PROTECT (CONIFEROUS)
  CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10

PROPOSED LEGEND

PROP = PROPOSED

- HYDRANT (PLAN)
- WATER GATE WELL
- REDUCER
- WATER GATE VALVE
- WATER STOP BOX
- WATER VAULT
- INLET
- DOUBLE INLET
- INLET JUNCTION CHAMBER
- ROUND CATCH BASIN
- STORM MANHOLE
- DRAIN ARROW
- FLARED END SECTION
- SANITARY MANHOLE
- CLEAN-OUT
- BARREL
- SIGN
- PUSH BUTTON
- HAND HOLE

- WATER MAIN
- STORM SEWER
- SANITARY SEWER
- FIBER OPTIC
- ELECTRICAL
- CENTERLINE OF DITCH
- CENTERLINE OF ROAD
- FENCE
- GRAVEL
- SILT FENCE
- PROTECTIVE FENCE
- GUARDRAIL
- LOT/UNIT
- CURB
- TEMPORARY GRADING PERMIT
- CONTOUR MAJOR
- CONTOUR MINOR
- WATER EASMENT
- STORM EASEMENT
- SANITARY EASEMENT
- R.O.W.
- LIMITS OF CONSTRUCTION
- LIMIT OF GRADING
- STONE WALL

- DETECTABLE WARNING
- ASPHALT
- CONCRETE
- SIDEWALK
- TREE (DECIDUOUS)
- TREE (CONIFEROUS)
- TREE TO BE REMOVED (DECIDUOUS)
- TREE TO BE REMOVED (CONIFEROUS)
- STUMP TO BE REMOVED

Know what's below. Call before you dig. 811

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 E. HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION

RIVERSIDE DR TO CHALMERS RD

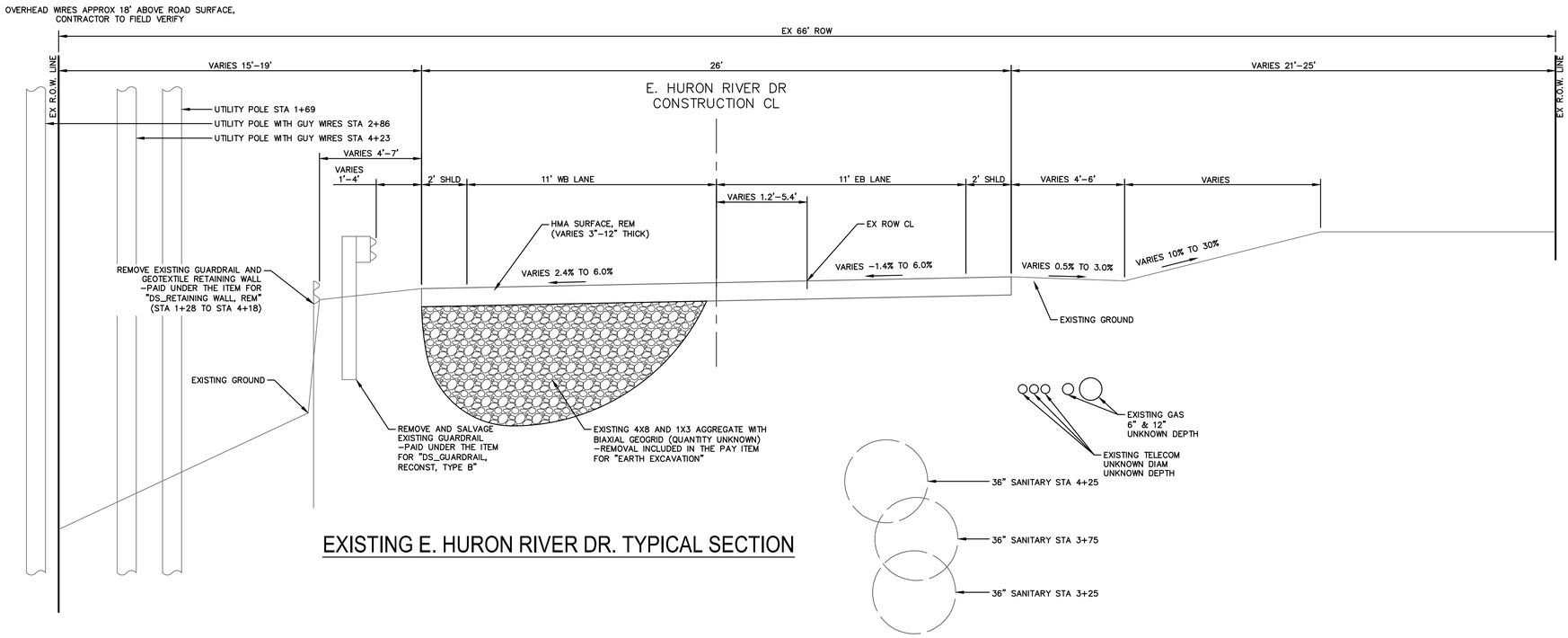
LEGEND

SCALE PLAN: NTS

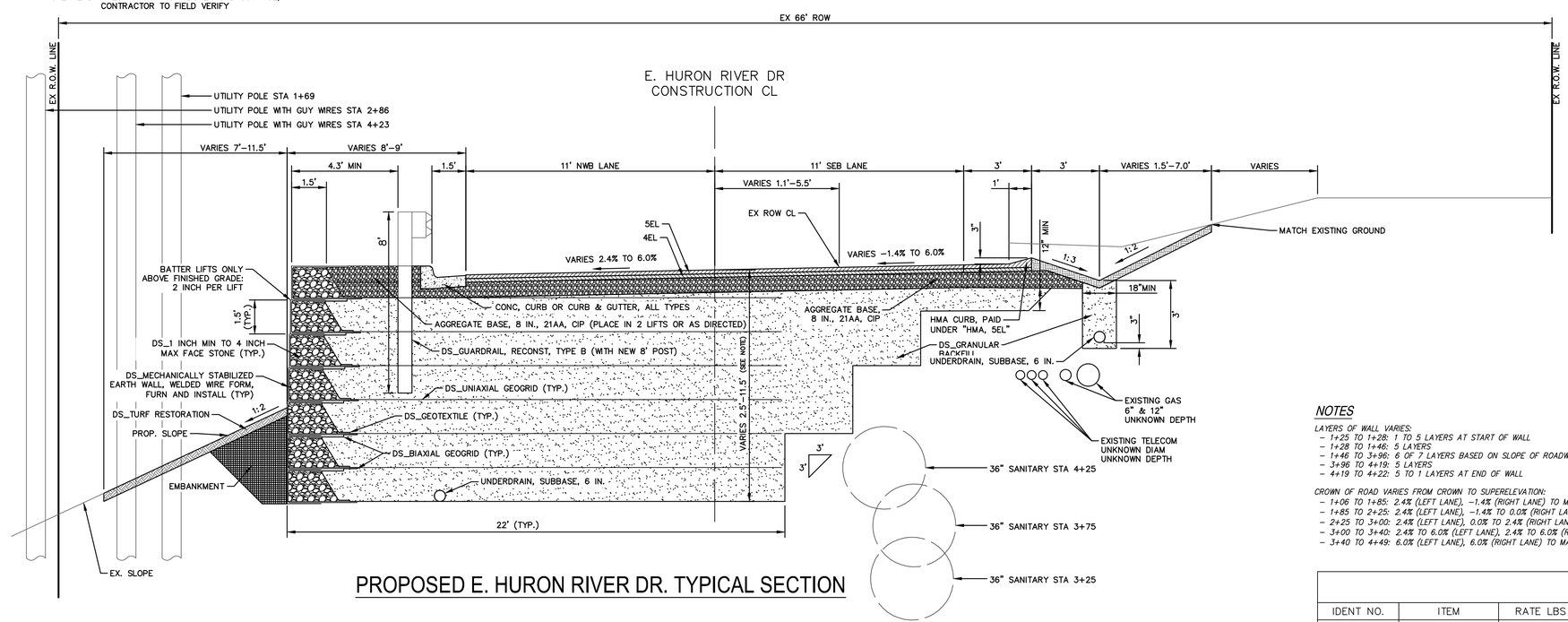
DRAWING No. AA23004-3

SHEET No. 3 OF 15

J: \AA \Design \AA23004 – E. Huron River Drive Retaining Wall \DWG \AA23004_Cov.dwg – _a2 standard bw.stb – Plot Date: 12/11/2025 3:15:55 PM



EXISTING E. HURON RIVER DR. TYPICAL SECTION



PROPOSED E. HURON RIVER DR. TYPICAL SECTION

NOTES

LAYERS OF WALL VARIES:
- *1+25 TO 1+28: 1 TO 5 LAYERS AT START OF WALL*
- *1+28 TO 1+46: 5 LAYERS*
- *1+46 TO 3+96: 6 OF 7 LAYERS BASED ON SLOPE OF ROADWAY*
- *3+96 TO 4+19: 5 LAYERS*
- *4+19 TO 4+22: 5 TO 1 LAYERS AT END OF WALL*

CROWN OF ROAD VARIES FROM CROWN TO SUPERELEVATION:
- *1+06 TO 1+85: 2.4% (LEFT LANE), –1.4% (RIGHT LANE) TO MATCH EXISTING*
- *1+85 TO 2+25: 2.4% (LEFT LANE), –1.4% TO 0.0% (RIGHT LANE) TRANSITION RIGHT LANE TO FLAT*
- *2+25 TO 3+00: 2.4% (LEFT LANE), 0.0% TO 2.4% (RIGHT LANE) TRANSITION RIGHT LANE TO MATCH LEFT LANE*
- *3+00 TO 3+40: 2.4% TO 6.0% (LEFT LANE), 2.4% TO 6.0% (RIGHT LANE) TRANSITION TO FULL SUPERELEVATION*
- *3+40 TO 4+49: 6.0% (LEFT LANE), 6.0% (RIGHT LANE) TO MATCH EXISTING*

HMA APPLICATION ESTIMATE				
IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
5EL	HMA, 5EL	165	64–28	MAINLINE TOP COURSE – AWI 260
4EL	HMA, 4EL	275	64–28	MAINLINE LEVELING COURSE
	* BOND COAT	0.05–0.15 GAL		

Know what's below. Call before you dig. 811

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 E. HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION
RIVERSIDE DR TO CHALMERS RD
TYPICAL CROSS SECTION

SCALE PROFILE: 1" = 3'

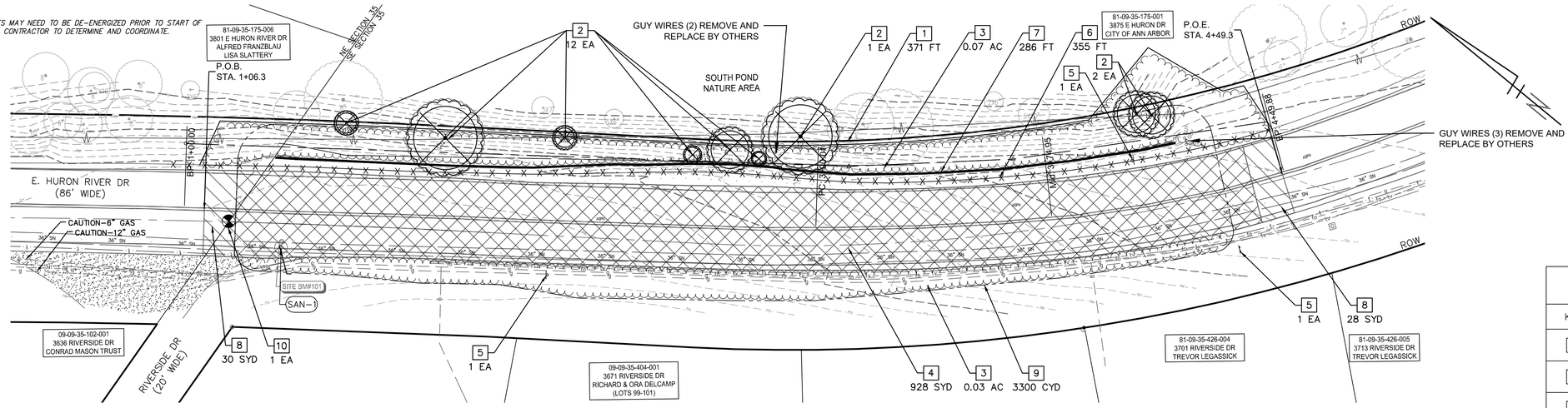
DRAWING No. AA230044

SHEET No. 4 OF 15

J:\AA\Design\AA23004 – E. Huron River Drive Retaining Wall\DWG\AA23004_TYP.dwg Dwg Created: 10-Dec-25 – _a2 standard bw.stb – Plot Date: 11-Dec-25

NOTES

OVERHEAD LINES MAY NEED TO BE DE-ENERGIZED PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO DETERMINE AND COORDINATE.



REMOVAL PLAN STA 1+06 TO STA 4+49

REMOVAL HATCH KEY

- HMA SURFACE, REM
- PAVT FOR BUTT JOINTS, REM
- RETAINING WALL, REM
- EROSION CONTROL, SILT FENCE or STRAW WATTLE
- X X X X DS_GUARDRAIL RECONST
- EARTH EXCAVATION LIMIT (UP TO 10' DEPTH)
- DS_CLEARING

REMOVAL KEY

KEY	DESCRIPTION
1	EROSION CONTROL, SILT FENCE
2	TREE, REM, 6 IN. – 12 IN.
3	DS_CLEARING
4	HMA SURFACE, REM
5	SIGN, REM, SALV
6	DS_GUARDRAIL, RECONST, TYPE B
7	DS_RETAINING WALL, REM
8	DS_PAVT FOR BUTT JOINTS, REM
9	EARTH EXCAVATION
10	MONUMENT BOX, ADJUST

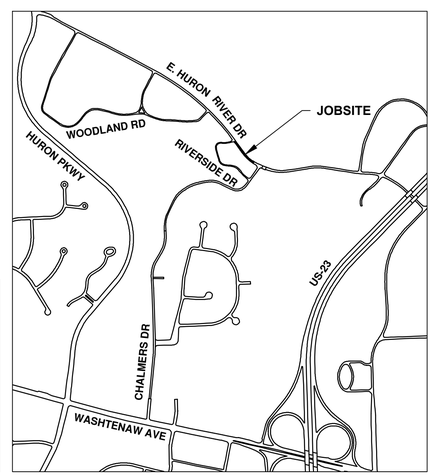
*SAWCUT FULL DEPTH AT REMOVAL LIMITS

TREE REMOVALS

DBH (IN.)	CROWN (FT)	HEALTH	SPECIES	LANDMARK
8	15	GOOD	DECIDUOUS	NO
8	15	GOOD	DECIDUOUS	NO
12	20	GOOD	DECIDUOUS	NO
8	15	GOOD	DECIDUOUS	NO
8	15	GOOD	DECIDUOUS	NO
8	15	GOOD	DECIDUOUS	NO
8	15	GOOD	DECIDUOUS	NO
6	15	GOOD	DECIDUOUS	NO
5	10	GOOD	DECIDUOUS	NO
5	10	GOOD	DECIDUOUS	NO
5	10	GOOD	DECIDUOUS	NO
5	10	GOOD	DECIDUOUS	NO
12	15	GOOD	DECIDUOUS	NO
10	0	DEAD	DECIDUOUS	NO
10	10	FAIR	DECIDUOUS	NO

REMOVAL QUANTITIES – THIS SHEET

ITEM	QTY	UNIT
Erosion Control, Silt Fence	371	Ft
Tree, Rem, 6 In. – 12 In.	15	Ea
DS_Clearing	0.1	Ac
HMA Surface, Rem	928	Syd
Sign, Rem, Salv	3	Ea
DS_Guardrail, Reconst, Type B	355	Ft
DS_Retaining Wall, Rem	286	Ft
DS_Pavt for Butt Joints, Rem	58	Syd
Earth Excavation	3300	Cyd
Monument Box, Adjust	1	Ea



JOBSITE LOCATION: SCALE 1" = 1000'

Know what's below. Call before you dig. 811

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION
RIVERSIDE DR TO CHALMERS RD
REMOVAL AND SESC PLAN

SCALE PLAN: 1" = 20'

DRAWING No. AA23004-5

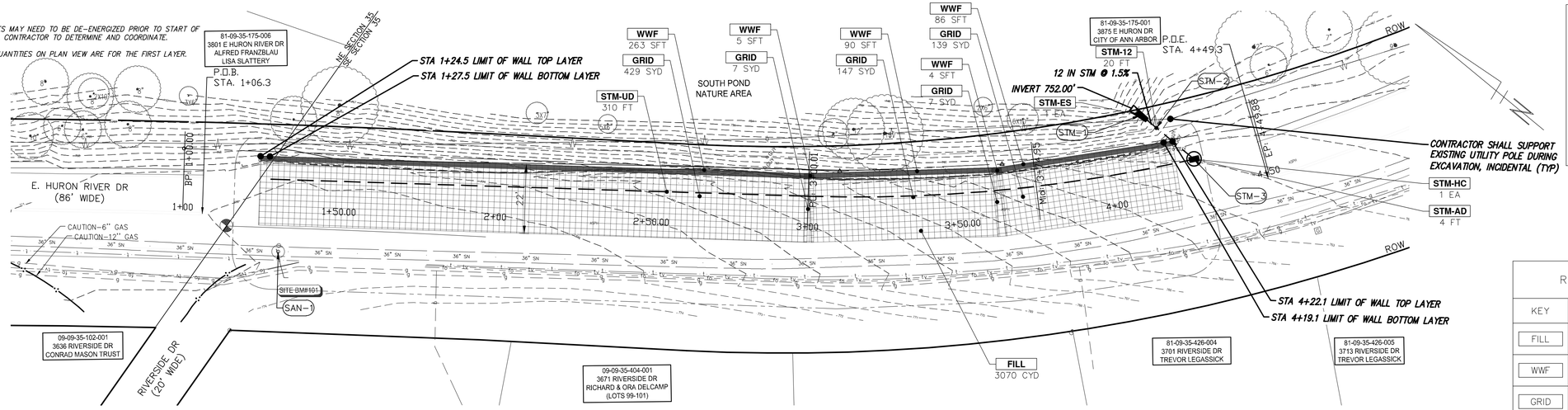
SHEET No. 5 OF 15

J:\AA\Design\AA23004 - E. Huron River Drive Retaining Wall\DWG\AA23004_REM.dwg Dwg Created: 11-Dec-25 - _a2 standard bw.stb - Plot Date: 11-Dec-25

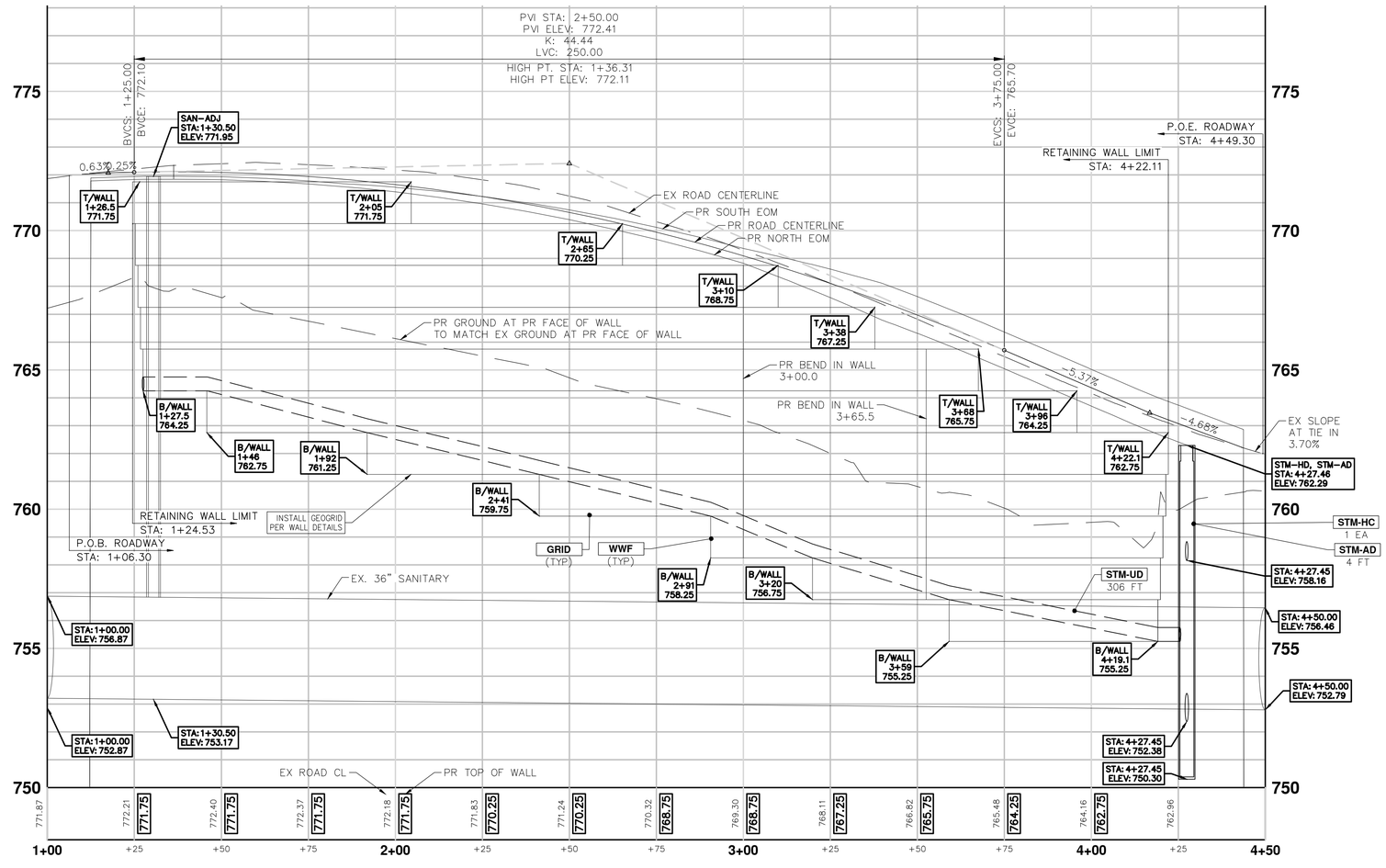
NOTES

OVERHEAD LINES MAY NEED TO BE DE-ENERGIZED PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO DETERMINE AND COORDINATE.

WWF & GRID QUANTITIES ON PLAN VIEW ARE FOR THE FIRST LAYER.



RETAINING WALL PLAN STA 1+06 TO STA 4+49



RETAINING WALL PROFILE STA 1+06 TO STA 4+49

RETAINING WALL CON. HATCH KEY

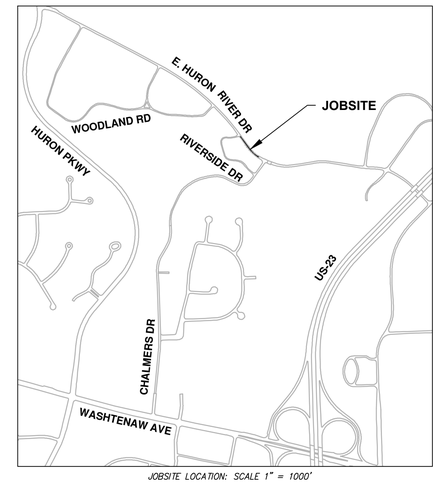
- WELDED WIRE FORM FACING UNIT
- UNIAXIAL GEOGRID
- STORM PIPE
- BACKFILL

RETAINING WALL CONSTRUCTION KEY

KEY	DESCRIPTION
FILL	DS_GRANULAR BACKFILL
WWF	DS_MECHANICALLY STABILIZED EARTH WALL, WELDED WIRE FORM, FURN INSTALL (5-7 LAYERS)
GRID	DS_UNIAXIAL GEOGRID (5-7 LAYERS)
STM-HC	STORM HIGH CAPACITY INLET, 48 IN. DIA., (0-8' DEEP)
STM-AD	STORM HIGH CAPACITY INLET, 48 IN. DIA., ADDITIONAL DEPTH
STM-12	12 IN., CL IV RCP STORM SEWER, SD-TD-1
STM-ES	12 IN., CL IV RCP END SECTION
STM-UD	UNDERDRAIN, SUBBASE, 6 IN.

WALL AND STORM CONSTRUCTION QUANTITIES - THIS SHEET

ITEM	QTY	UNIT
Embankment	88	Cyd
DS_Granular Backfill	3070	Cyd
DS_1 inch Min to 4 inch Max Face Stone	175	Cyd
DS_Mechanically Stabilized Earth Wall, Welded Wire Form, Furn and Install	2849	Sft
DS_Biaxial Geogrid	1451	Syd
DS_Uniaxial Geogrid	4643	Syd
DS_Geotextile	526	Syd
12 In., CL IV RCP Storm Sewer, SD-TD-1	20	Ft
12 In., CL IV RCP End Section	1	Ea
Storm High Capacity Inlet, 48 In. Dia., (0-8' deep)	1	Ea
Storm High Capacity Inlet, 48 In. Dia., Additional Depth	4	Ft
Storm Structure Cover	1	Ea
Underdrain, Subbase, 6 In.	310	Ft



JOBSITE LOCATION: SCALE 1" = 1000'

Know what's below. Call before you dig. 811

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION

RIVERSIDE DR TO CHALMERS RD

RETAINING WALL CONSTRUCTION

SCALE PLAN: 1" = 20'

DRAWING No. AA23004-6

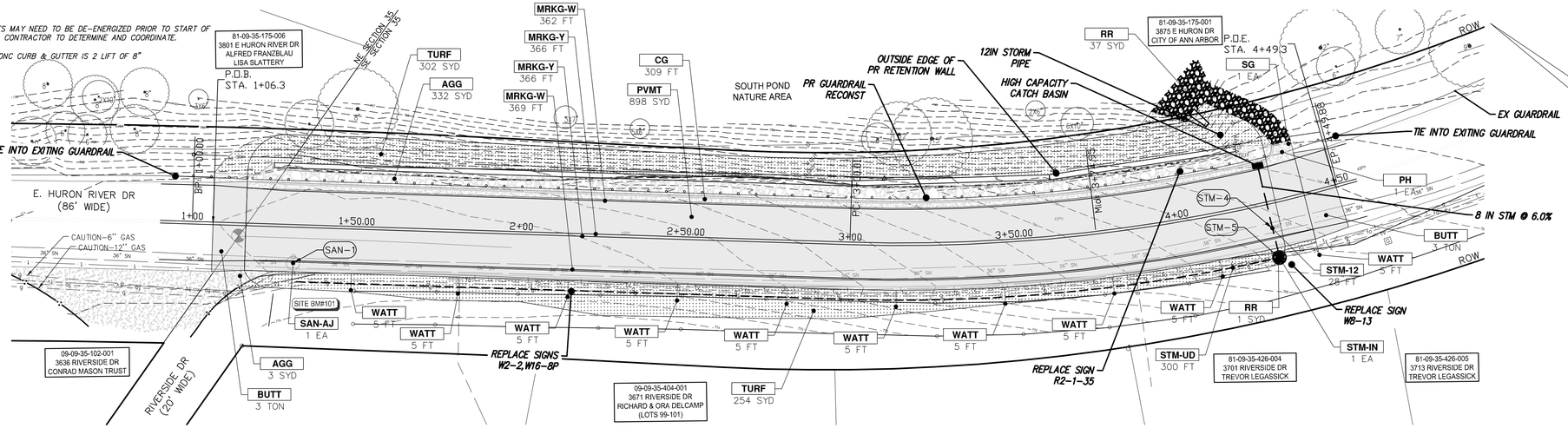
SHEET No. 6 OF 15

J:\AA\Design\AA23004 - E. Huron River Drive Retaining Wall\DWG\AA23004_CON.dwg Dwg Created: 11-Dec-25 - sda-general_mn1.ctb - Plot Date: 15-Dec-25

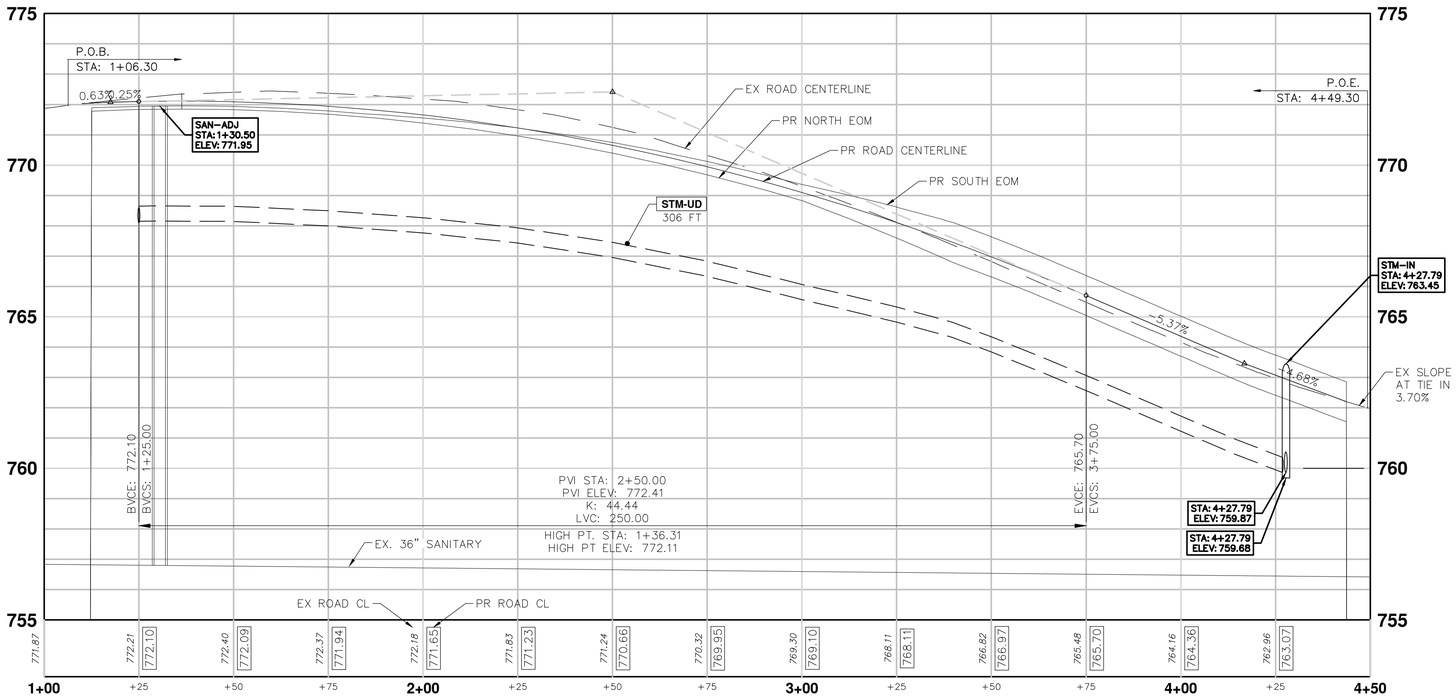
NOTES

OVERHEAD LINES MAY NEED TO BE DE-ENERGIZED PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO DETERMINE AND COORDINATE.

AGG BEHIND CONC CURB & GUTTER IS 2 LIFT OF 8"



ROAD CONSTRUCTION PLAN STA 1+06 TO STA 4+49



ROAD CONSTRUCTION PROFILE STA 1+06 TO STA 4+49

SDANITARY & STORM, STRUCTURE & PIPE TABLE

STRUCTURE OR PIPE NAME	STRUCTURE OR PIPE TYPE	RIM ELEV.	SIZE, DIRECTION, & INVERT ELEV.	COVER TYPE
SAN-1	4' MH	771.95	36" NW 753.80 36" SE 753.80	Q (SD-GU-4)
STM-1	12" ES	752.00	–	–
STM-2	12" RCP Pipe	–	SW 752.38 NE 752.00	–
STM-3	4' MH	762.29	6" NW 755.25 8" SW 758.16 12" NE 752.38	HC (SD-ST-4)
STM-4	8" PVC Pipe	–	SW 759.87 NE 758.16	–
STM-5	2' Inlet	763.45	6" NW 759.87 8" NE 759.87	G

ROAD CONSTRUCTION QUANTITIES – THIS SHEET

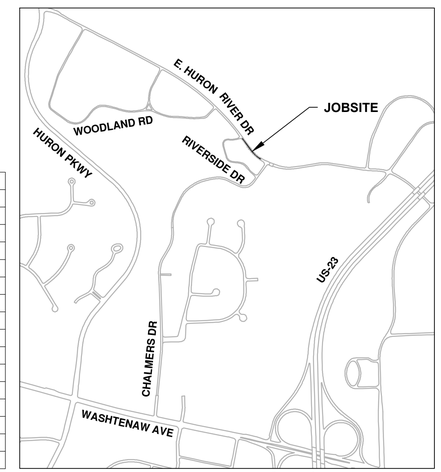
ITEM	QTY	UNIT
DS_Erosion Control, Straw Wattle, 12 In. Dia.	50	Ft
DS_Granular Backfill	53	Cyd
Sanitary Structure Cover, Adjust	1	Ea
DS_8 In., PVC Storm Sewer, SD-TD-2	28	Ft
Riprap, Heavy	38	Syd
DS_Storm Single Inlet, 24 In. Dia., (0-8' deep), Modified	1	Ea
Underdrain, Subbase, 6 In.	300	Ft
Aggregate Base, 8 In., 21AA, CIP	1406	Syd
HMA, 4EL	137	Ton
HMA, 5EL	92	Ton
DS_Shld Gutter, Conc, Det 2	1	Ea
Conc, Curb or Curb & Gutter, All Types	309	Ft
Pavt Mrkg, Polyurea, 4 In., White	731	Ft
Pavt Mrkg, Polyurea, 4 In., Yellow	732	Ft
DS_Post Hole Through Conc	1	Ea
DS_Turf Restoration	580	Syd

ROAD CONSTRUCTION HATCH KEY

- HMA SURFACE
- RIPRAP
- AGGREGATE BASE, 8 IN, 21AA
- TURF RESTORATION
- CONCRETE CURB & GUTTER
- GUARDRAIL RECONST
- STORM PIPE

ROAD CONSTRUCTION KEY

KEY	DESCRIPTION
RR	RIPRAP, HEAVY
PVMT	HMA, 4EL & HMA, 5EL & AGGREGATE BASE, 8 IN., 21AA, CIP
BUTT	HMA, 5EL
GRDL	DS_GUARDRAIL, RECONST, TYPE B
CG	CONC, CURB OR CURB & GUTTER, ALL TYPES
STM-8	DS_8 IN., PVC STORM SEWER, SD-TD-2
STM-IN	DS_STORM SINGLE INLET, 24 IN. DIA., (0-8' DEEP), MODIFIED
STM-UD	UNDERDRAIN, SUBBASE, 6 IN.
SAN-AJ	SANITARY STRUCTURE COVER, ADJUST
MRKG-W	PAVT MRKG, POLYUREA, 4 IN., WHITE
MRKG-Y	PAVT MRKG, POLYUREA, 4 IN., YELLOW
SG	DS_SHLD GUTTER, CONC, DET 2
PH	POST HOLE THROUGH CONC FOR STEEL POST
TURF	DS_TURF RESTORATION
AGG	AGGREGATE BASE, 8 IN., 21AA, CIP
WATT	DS_EROSION CONTROL, STRAW WATTLE, 12 IN. DIA.



JOBSITE LOCATION: SCALE 1" = 1000'

Know what's below. Call before you dig. 811

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION

RIVERSIDE DR TO CHALMERS RD

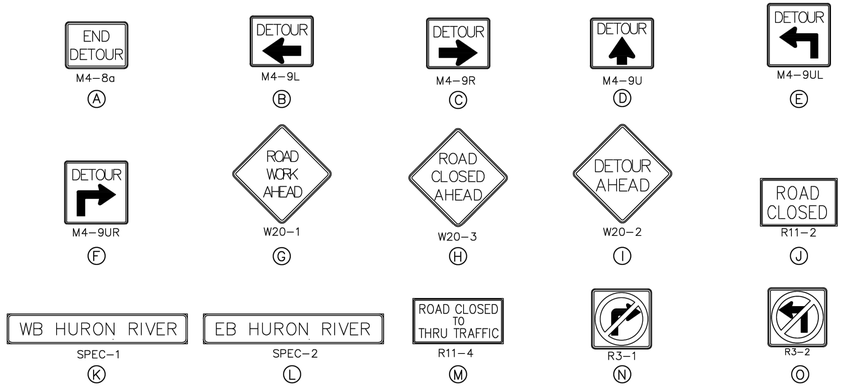
ROAD CONSTUCTION

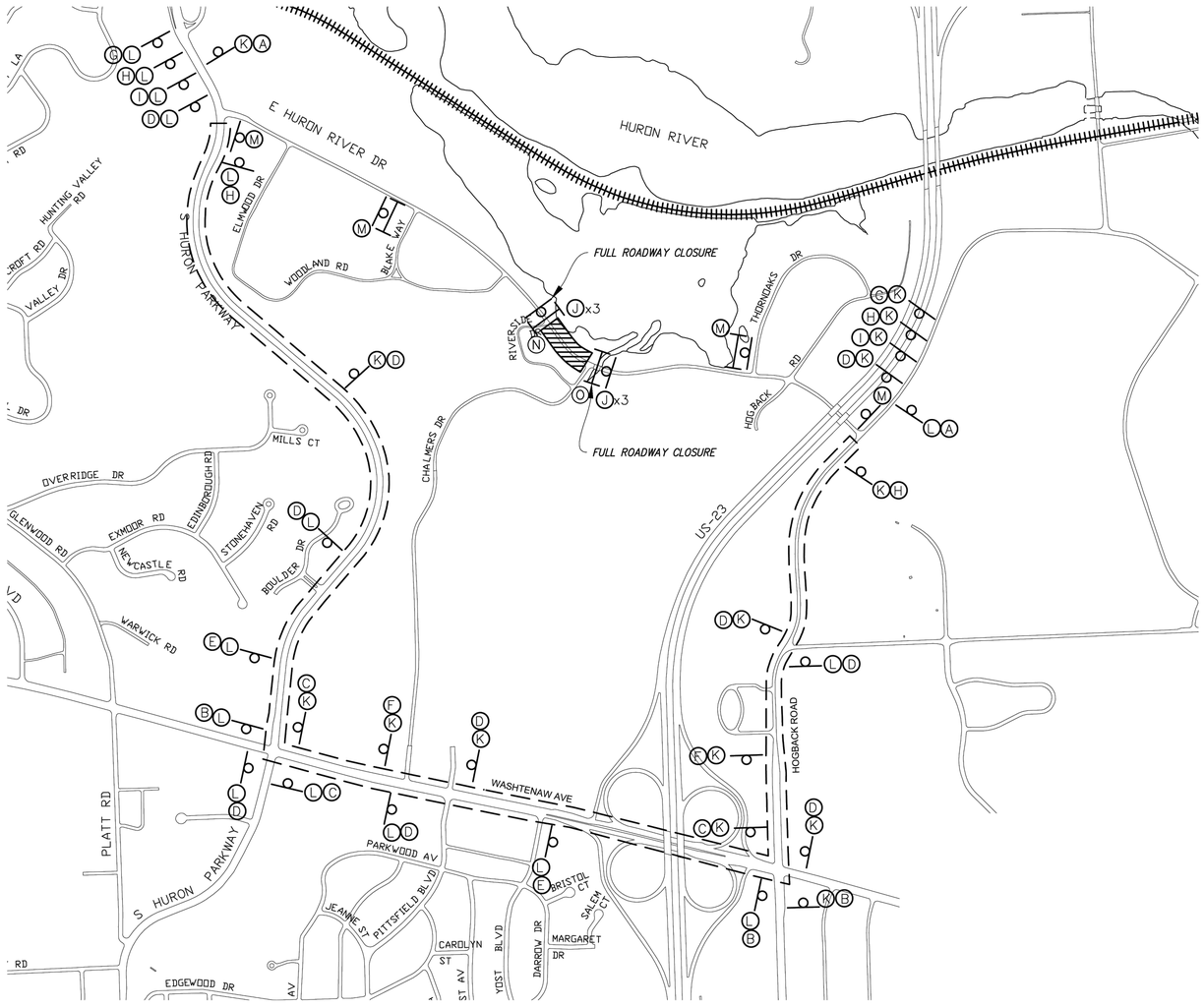
SCALE PLAN: 1" = 20'

DRAWING No. AA23004-7

SHEET No. 7 OF 15

J:\AA\Design\AA23004 - E. Huron River Drive Retaining Wall\DWG\AA23004_CON 2.dwg Dwg Created: 11-Dec-25 - _a2 standard bw.stb - Plot Date: 11-Dec-25





TRAFFIC QUANTITIES – THIS SHEET

ITEM	QTY	UNIT
Sign, Type B, Temp, Prismatic, Furn & Oper	330.0	Sft
Sign, Type B, Temp, Prismatic, Special, Furn & Oper	120.0	Sft
Barricade, Type III, High Intensity, Lighted, Furn & Oper	12	Ea

NOTES

LEAD-IN PLACED AT 450' SPACING.

ADJUST ALL SIGNS AS NECESSARY TO FIT FIELD CONDITIONS.

SIGN, TYPE B, TEMP, PRISMATIC, FURN & OPER – THIS SHEET

SYMBOL	MMUTCD DESIGNATION	DESCRIPTION	SIZE (IN)	QTY
Ⓐ	M4-8a	END DETOUR	30x24	2
Ⓑ	M4-4L	DETOUR (LEFT)	30x24	3
Ⓒ	M4-9R	DETOUR (RIGHT)	30x24	3
Ⓓ	M4-9U	DETROUR (STRAIGHT)	30x24	10
Ⓔ	M4-9UL	DETROUR (STRAIGHT/LEFT)	30x30	2
Ⓕ	M4-9UR	DETROUR (STRAIGHT/RIGHT)	30x30	2
Ⓖ	W20-1	ROAD WORK AHEAD	36x36	2
Ⓗ	W20-3	ROAD CLOSED AHEAD	36x36	4
Ⓘ	W20-2	DETOUR AHEAD	36x36	2
Ⓙ	R11-2	ROAD CLOSED	48X30	6
Ⓜ	R11-4	ROAD CLOSED TO THRU TRAFFIC	60X30	6
Ⓝ	R3-1	NO RIGHT TURN SYMBOL	24X24	1
Ⓞ	R3-2	NO LEFT TURN SYMBOL	24X24	1

SIGN, TYPE B, TEMP, PRISMATIC, SPEICAL, FURN & OPER – THIS SHEET

SYMBOL	MMUTCD DESIGNATION	DESCRIPTION	SIZE (IN)	QTY
Ⓚ	D3-2	WB HURON RIVER DR	12x48	15
Ⓛ	D3-2	EB HURON RIVER DR	12x48	15

LEGEND

TYPE III BARRICADE

SIGN

WORK ZONE

DETOUR ROUTE

811 Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 E HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION

RIVERSIDE DR TO CHALMERS RD

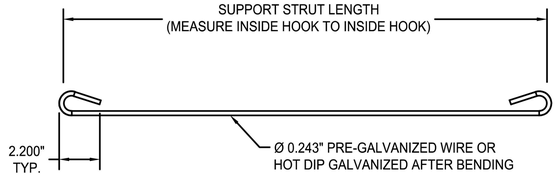
MAINTENANCE OF TRAFFIC PLAN

SCALE PLAN: 1"=600'

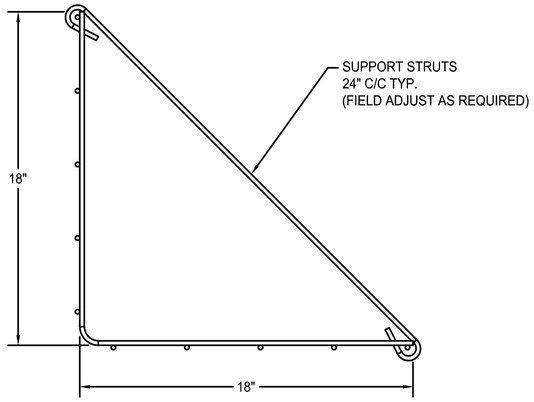
DRAWING No. AA23004-8

SHEET No. 8 OF 15

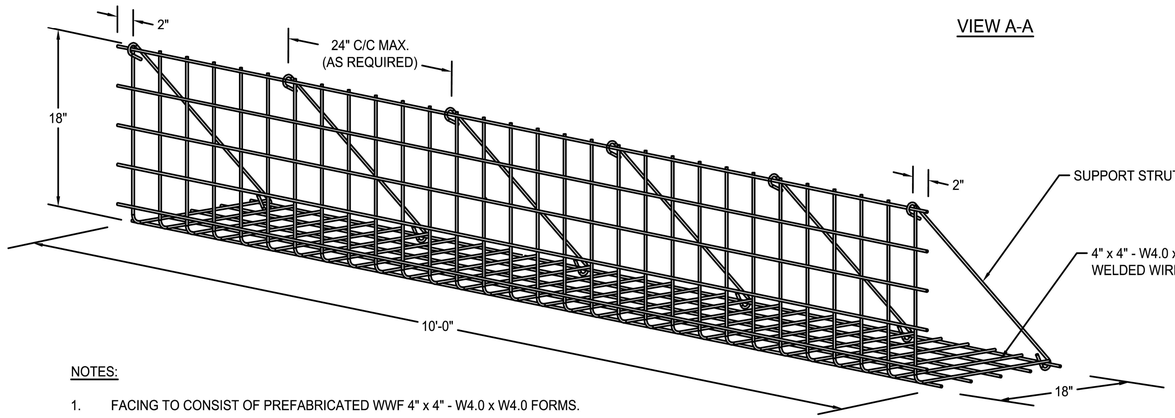
J:\AA\Design\AA23004 – E. Huron River Drive Retaining Wall\DWG\AA23004_MOT.dwg Dwg Created: 3-May-24 – _o2 standard bw.stb – Plot Date: 11-Dec-25



SUPPORT STRUT

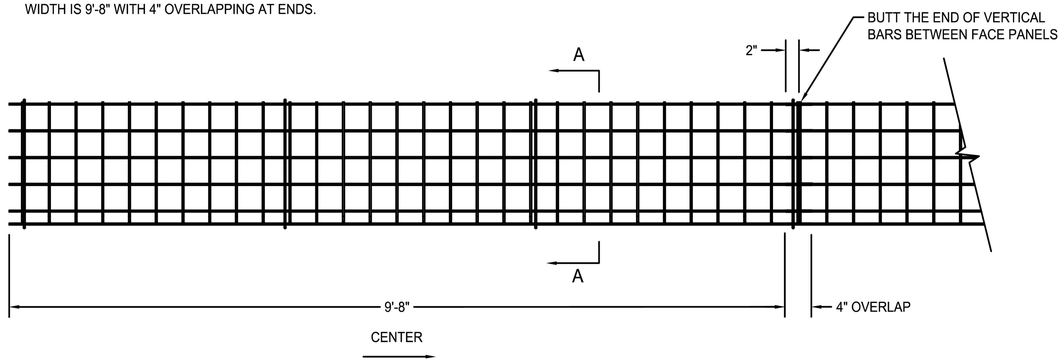


VIEW A-A



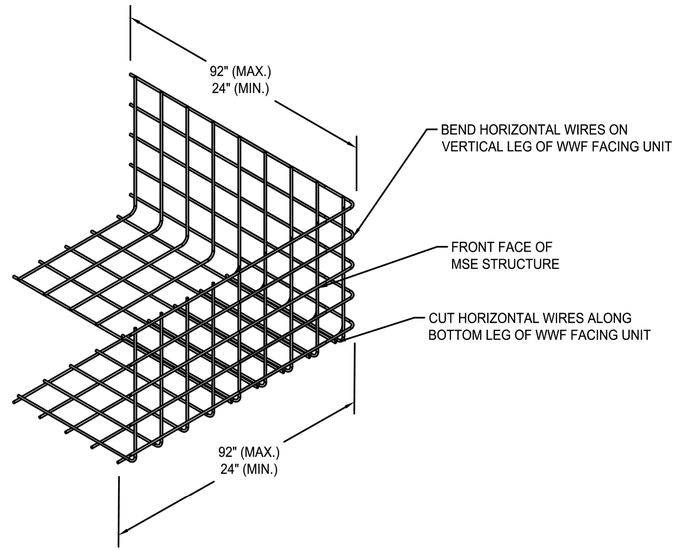
NOTES:

1. FACING TO CONSIST OF PREFABRICATED WWF 4" x 4" - W4.0 x W4.0 FORMS.
2. WWF'S ARE MANUFACTURED OF ASTM A82 (AASHTO M32) STEEL WIRE AND ARE WELDED IN ACCORDANCE WITH ASTM A185 (AASHTO M55).
3. ALL FORMS SHALL BE HOT DIP GALVANIZED AFTER BENDING IN ACCORDANCE WITH ASTM A123 (AASHTO M111).
4. STRUTS ARE MANUFACTURED OF MEDIUM TEMPER PRE-GALVANIZED WIRE, IN ACCORDANCE WITH ASTM A641 OR ARE HOT-DIP GALVANIZED AFTER BENDING IN ACCORDANCE WITH ASTM A153 (AASHTO M232).
5. OVERALL LENGTH OF WIRE FORMS IS 10'-0". EFFECTIVE CONSTRUCTED WIDTH IS 9'-8" WITH 4" OVERLAPPING AT ENDS.



WELDED WIRE FORM FACING UNIT

NOT TO SCALE

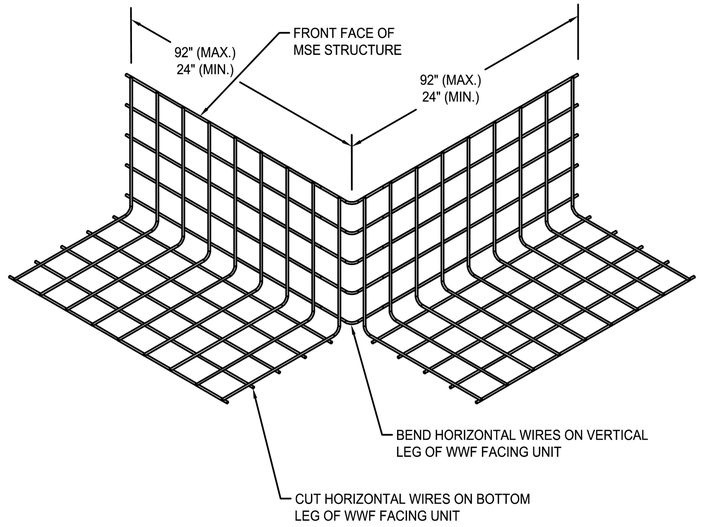


NOTES:

1. MAINTAIN 24" (MIN.) OF WIRE FORM ON EACH SIDE OF BEND.
2. SEE WELDED WIRE FORM (WWF) FACING UNIT DETAIL FOR FACING MATERIAL AND DIMENSIONS.

WELDED WIRE FORM OUTSIDE CORNER UNIT

NOT TO SCALE



NOTES:

1. MAINTAIN 24" (MIN.) OF WIRE FORM ON EACH SIDE OF BEND.
2. SEE WELDED WIRE FORM (WWF) FACING UNIT DETAIL FOR FACING MATERIAL AND DIMENSIONS.

WELDED WIRE FORM INSIDE CORNER UNIT

NOT TO SCALE

Know what's below. Call before you dig. 811

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

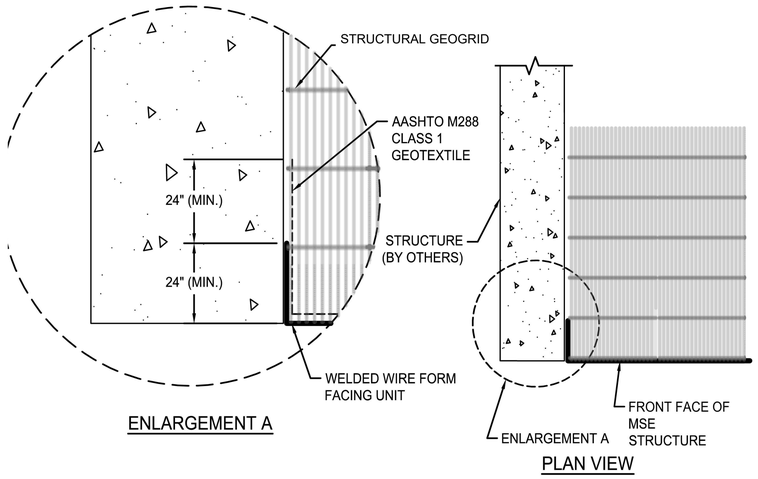
E. HURON RIVER DRIVE RETAINING WALL
REPLACEMENT AND ROAD RECONSTRUCTION
RIVERSIDE DR TO CHALMERS RD
RETAINING WALL DETAILS - 1

SCALE PLAN: NTS

DRAWING No.
AA23004-9

SHEET No.
9 OF 15

J:\AA\Design\AA23004 - E. Huron River Drive Retaining Wall\DWG\RETAINING WALL DETAILS.dwg Dwg Created: 12-Nov-25 - _a2 standard bw.stb - Plot Date: 11-Dec-25



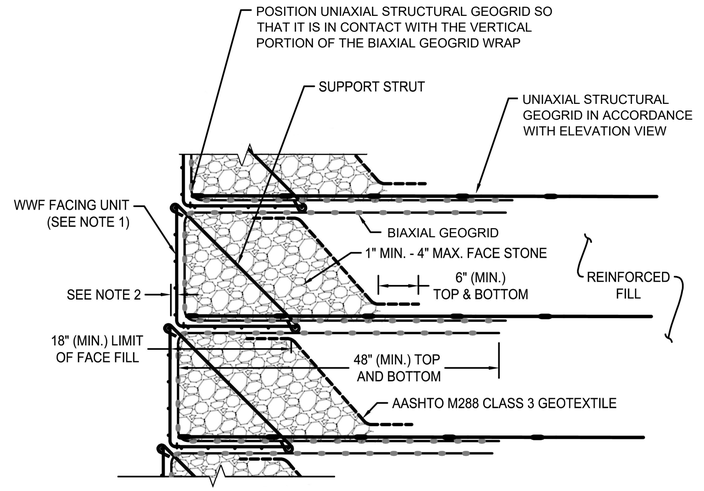
PLAN VIEW

NOTES:

1. EXTEND GEOGRID AND TRIM AT FACE OF STRUCTURE.
2. BEND AND EXTEND WELDED WIRE FACING UNIT BACK 2.0' (MIN.) ALONG FACE OF STRUCTURE. EXTEND GEOTEXTILE AND BIAXIAL GEOGRID 2.0' (MIN.) ALONG FACE OF STRUCTURE PAST THE WELDED WIRE FACE EXTENSION.
3. SUPPORT STRUTS AND BIAXIAL GEOGRID NOT SHOWN FOR CLARITY.

WELDED WIRE FORM WALL TRANSITION AT STRUCTURE

NOT TO SCALE



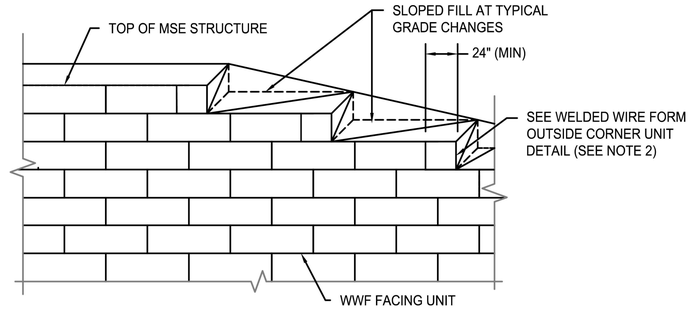
CROSS-SECTION

NOTE:

1. SEE WELDED WIRE FORM (WWF) FACING UNIT DETAIL FOR FACING MATERIAL AND DIMENSIONS.
2. OFFSET AS NEEDED TO ACHIEVE OVERALL BATTER AS SHOWN IN THE CROSS-SECTIONS.

PERMANENT WELDED WIRE FORM FACING DETAIL

NOT TO SCALE

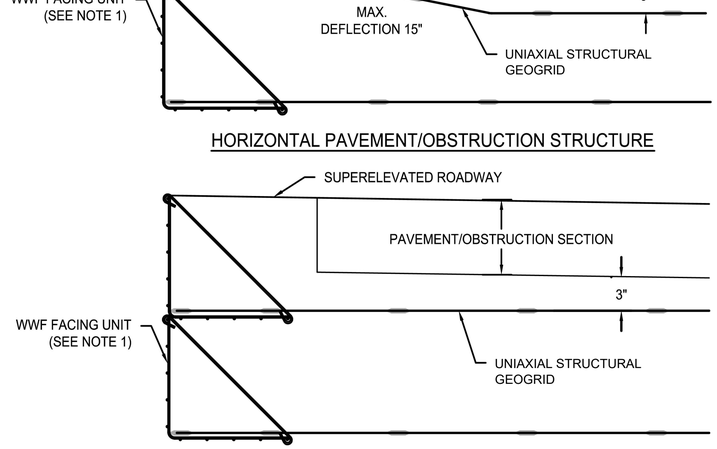


NOTES:

1. SEE WELDED WIRE FORM (WWF) FACING DETAIL AND WWF OUTSIDE CORNER UNIT DETAIL FOR FACING MATERIALS AND DIMENSIONS.
2. BEND BASKET 90° PER OUTSIDE CORNER UNIT DETAIL AT STEPS TO ENSURE REINFORCED FILL IS CONTAINED.

TOP OF MSE STRUCTURE FINISHING DETAIL (NO OFFSET)

NOT TO SCALE



HORIZONTAL PAVEMENT/OBSTRUCTION STRUCTURE

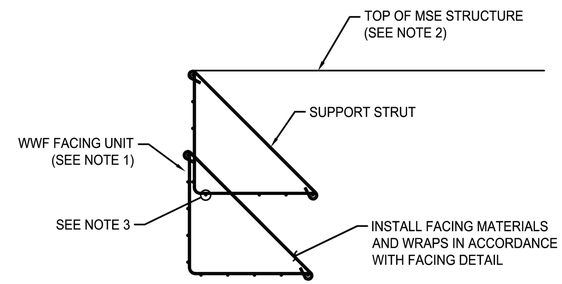
SUPERELEVATED PAVEMENT/OBSTRUCTION STRUCTURE

NOTES:

1. SEE WELDED WIRE FORM (WWF) FACING UNIT DETAIL FOR FACING MATERIALS AND DIMENSIONS.
2. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PLACEMENT OF THE GEOGRID TO AVOID CONFLICT WITH THE CONTRACT PAVEMENT/OBSTRUCTION SECTION. GEOGRID MUST BE SEPARATED FROM THE PAVEMENT/OBSTRUCTION SECTION BY A MINIMUM OF 3".

GEOGRID PLACEMENT AT PAVEMENT/OBSTRUCTION SECTION

NOT TO SCALE



NOTES:

1. SEE WELDED WIRE FORM (WWF) FACING DETAIL FOR FACING MATERIALS AND DIMENSIONS.
2. SET TOPMOST WWF FACING UNIT INSIDE WWF FACING UNIT BELOW TO FOLLOW GRADE.
3. HORIZONTAL WIRES OF TOPMOST WWF FACING UNIT MAY BE CUT TO ALLOW INSTALLATION OVER STRUTS OF WWF FACING UNIT BELOW.

NESTED BASKET DETAIL (NO OFFSET)

NOT TO SCALE

811 Know what's below. Call before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734.794.6430
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

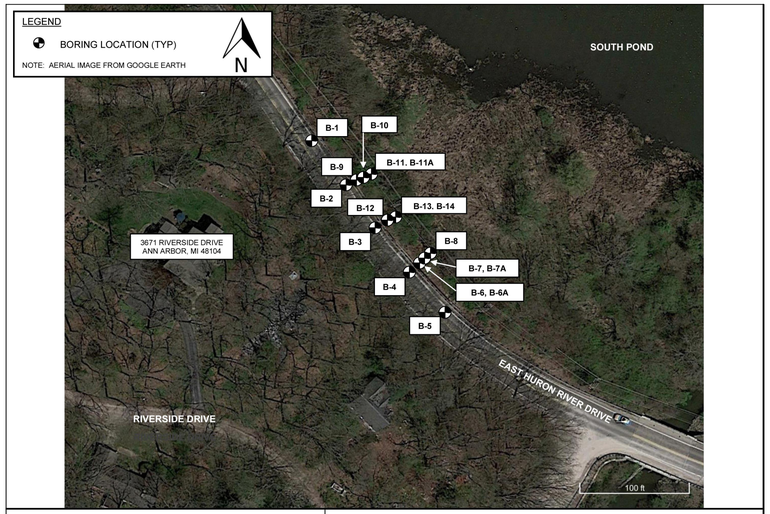
E. HURON RIVER DRIVE RETAINING WALL
REPLACEMENT AND ROAD RECONSTRUCTION
RIVERSIDE DR TO CHALMERS RD
RETAINING WALL DETAILS - 2

SCALE PLAN: NTS

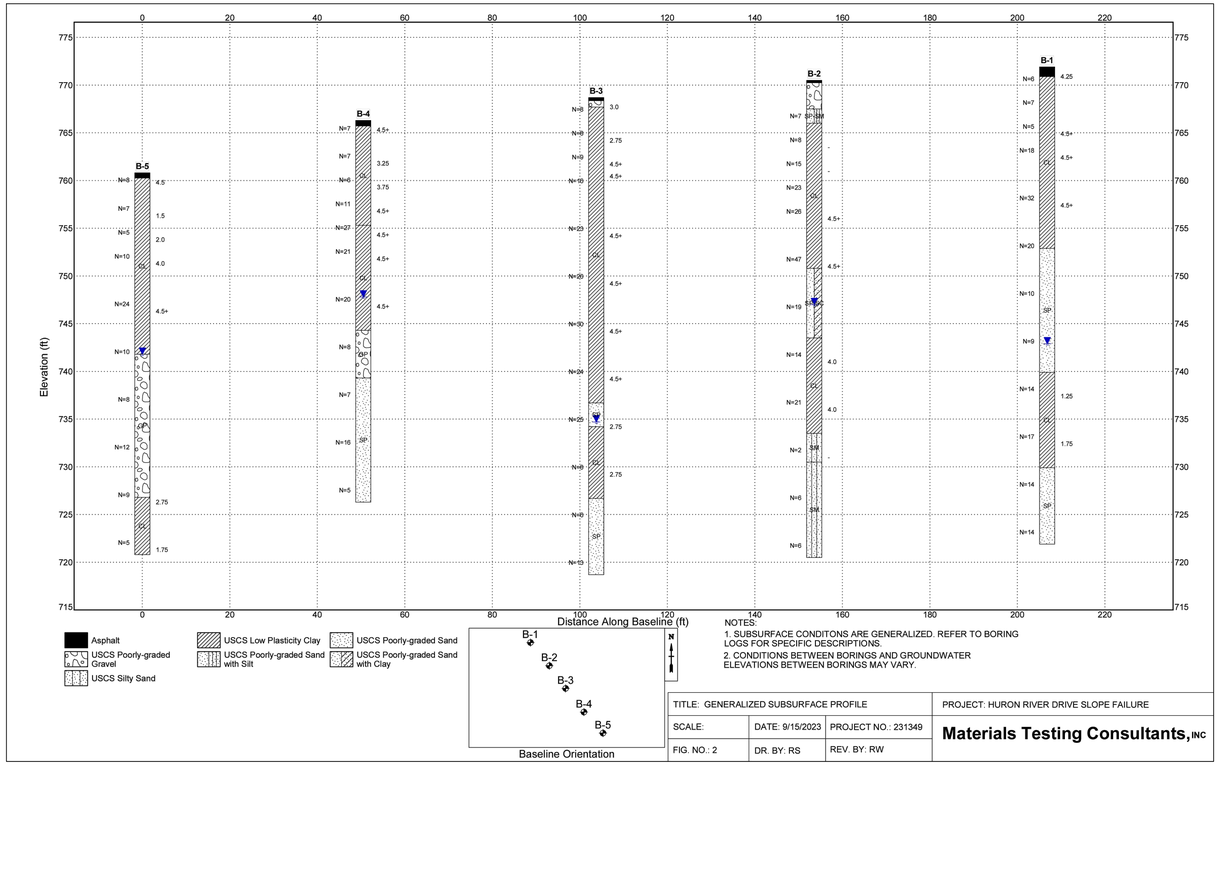
DRAWING No. AA23004-10

SHEET No. 10 OF 15

J:\AA\Design\AA23004 - E. Huron River Drive Retaining Wall\DWG\RETAINING WALL DETAILS.dwg Dwg Created: 12-Nov-25 - _a2 standard bw.stb - Plot Date: 11-Dec-25



TITLE: BORING LOCATION PLAN		PROJECT: HURON RIVER DRIVE ANN ARBOR, SLOPE AND WALL FAILURE	
SCALE: AS SHOWN	DATE: 08/31/2023	PROJECT NO.: 231349	MTC MATERIALS TESTING CONSULTANTS
FIG. NO.: 1	DR. BY: JM	REV. BY: RS	



TITLE: GENERALIZED SUBSURFACE PROFILE			PROJECT: HURON RIVER DRIVE SLOPE FAILURE
SCALE:	DATE: 9/15/2023	PROJECT NO.: 231349	**Materials Testing Consultants,** INC
FIG. NO.: 2	DR. BY: RS	REV. BY: RW	

Know what's **below.** **Call** before you dig.

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION

RIVERSIDE DR TO CHALMERS RD

SOIL BORING MAP AND PROFILE

SCALE: PLAN: NTS

DRAWING No. AA23004-11

SHEET No. 11 OF 15

Plotted: Dec 11, 2025, 3:18 PM by user: 1179 - Saved: 12/11/2025 by user: 1179
J:\AA\Design\AA23004 - E. Huron River Drive Retaining Wall\DWG\AA23004_SBL.dwg

LOG OF BORING — B-1 — Sheet: 1 of 2

Project No.: 231349 **Boring No.:** B-1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: 55 LC
Crew Chief: KE Field Eng.: BG Rev. By:RS
Coordinates: N=279878.9 E=13307260.6 (MI South ift)
Elevation: 771.9 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 06/29/2023 Date End: 06/29/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing	HSA	4 1/4"	During	29.0
Sampler	SPT	2"	End	29.0
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings. Cave in at 30.0 ft. Depth Drilled: 50.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
770.9	1					12" HMA 1.0	4.25			
769.9	2	S-1	1.2	3-3-3 N=6	CL	Gray lean CLAY; mostly clayey fines, few coarse to fine sand, trace gravel, moist				
768.9	3									
767.9	4	S-2	0.3	3-3-4 N=7				2.9		S-2, S-3: Poor recovery; possible coarse gravel / COBBLE
766.9	5									
765.9	6									
764.9	7	S-3	1.0	2-2-3 N=5			4.5+	19.6		
763.9	8									
762.9	9									
761.9	10	S-4	1.5	4-8-10 N=18			4.5+	22.2		
760.9	11									
759.9	12									
758.9	13									
757.9	14									
756.9	15	S-5	1.5	9-13-19 N=32		Grades without sand	4.5+	14.0		
755.9	16									
754.9	17									
753.9	18									
752.9	19					19.0				
751.9	20	S-6	1.5	12-10-10 N=20		Brown poorly graded SAND; mostly medium to fine sand, moist				
750.9	21									
749.9	22									
748.9	23									
747.9	24									
746.9	25	S-7	1.5	5-4-6 N=10	SP					
745.9	26									
744.9	27									
743.9	28									
742.9	29									
741.9	30	S-8	1.5	3-4-5 N=9		Grades wet at 29'				
740.9	31									
739.9	32					32.0				
738.9	33					Brown lean CLAY with sand; mostly clayey fines, little coarse to fine sand, wet				
737.9	34									
736.9	35	S-9	1.5	6-6-8 N=14			1.25	13.2		
735.9	36									
734.9	37				CL					
733.9	38									
732.9	39					Grades gray	1.75	21.9		
731.9	40	S-10	1.5	6-9-8 N=17						

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING — B-2 — Sheet: 1 of 2

Project No.: 231349 **Boring No.:** B-2

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: 55 LC
Crew Chief: KE Field Eng.: JV Rev. By:RS
Coordinates: N=279837.6 E=13307294.2 (MI South ift)
Elevation: 770.5 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 06/28/2023 Date End: 06/28/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing	HSA	4 1/4"	During	23.5
Sampler	SPT	2"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings. Cave in at 23.0 ft. Depth Drilled: 50.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	UCS psf	REMARKS
769.5	1					3" Asphalt patch 0.3				
768.5	2	S-1	1.5	1-WOH		Crushed Limestone Aggregate Base				WOH: Weight-of-Hammer
767.5	3					3.0				
766.5	4	S-2	1.5	5-3-4 N=7	SP-SM	Brown poorly graded SAND with silt and gravel; mostly coarse to fine sand, little coarse to fine gravel, few silty fines, moist 4.5				
765.5	5					Brown lean CLAY; mostly clayey fines, few coarse to fine sand, moist				
764.5	6									
763.5	7	S-3	0.6	4-4-4 N=8			-			S-3, S-4: Poor recovery; possible coarse gravel / COBBLE
762.5	8									
761.5	9									
760.5	10	S-4	0.1	5-7-8 N=15			-			
759.5	11									
758.5	12	S-5	1.5	11-12-11 N=23				23.1		S-5: Atterberg Limits ASTM D4318: LL = 20, PL = 11, PI = 9
757.5	13				CL					
756.5	14									
755.5	15	S-6	1.5	11-12-14 N=26			4.5+	19.3		
754.5	16									
753.5	17									
752.5	18									
751.5	19									
750.5	20	S-7	1.5	11-15-32 N=47		19.7	4.5+	17.4		
749.5	21					Brown poorly graded SAND with clay and gravel, mostly coarse to fine sand, little coarse to fine gravel, few clayey fines, moist				Augers charged with water at 20.0' to 25.0'
748.5	22									
747.5	23									
746.5	24				SP-SC					
745.5	25	S-8	0.8	12-10-9 N=19		Grades wet				
744.5	26									
743.5	27					27.0				
742.5	28					Gray lean CLAY; mostly clayey fines, trace fine gravel, moist				
741.5	29									
740.5	30	S-9	1.5	5-5-9 N=14			4.0	16.0		
739.5	31									
738.5	32									
737.5	33				CL					
736.5	34									
735.5	35	S-10	0.6	10-13-8 N=21		Grades with wet sand seams	4.0	19.6		S-10: Atterberg Limits ASTM D4318: LL = 29, PL = 13, PI = 16
734.5	36									
733.5	37					37.0				
732.5	38					Gray silty SAND; mostly medium to fine sand, some silty fines, wet				
731.5	39				SM					
730.5	40	S-11	0.2	1-1-1 N=2			-	13.5		

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING — B-3 — Sheet: 1 of 2

Project No.: 231349 **Boring No.:** B-3

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: 55 LC
Crew Chief: KE Field Eng.: BG Rev. By:RS
Coordinates: N=279797.1 E=13307323.3 (MI South ift)
Elevation: 768.7 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 06/29/2023 Date End: 06/29/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing	HSA	4 1/4"	During	34.0
Sampler	SPT	2"	End	20.0
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings. Cave in at 26.0 ft. Depth Drilled: 50.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	UCS psf	REMARKS
767.7	1					4" HMA 0.3	3.0			
766.7	2	S-1	1.5	5-4-4 N=8		7" Coarse Aggregate Base 1.0				
765.7	3					Brown lean CLAY; mostly clayey fines, few coarse to fine gravel, moist				
764.7	4	S-2	1.5	4-4-4 N=8				2.75	14.9	
763.7	5									
762.7	6									
761.7	7	S-3	1.5	2-4-5 N=9		Grades with trace coarse gravel at 5'	4.5+	24.8		
760.7	8						4.5+			
759.7	9									
758.7	10	S-4	1.5	4-7-9 N=16				18.0		
757.7	11									
756.7	12									
755.7	13									
754.7	14									
753.7	15	S-5	1.5	11-11-12 N=23			4.5+	18.7		
752.7	16									
751.7	17				CL					
750.7	18									
749.7	19									
748.7	20	S-6	1.5	8-11-15 N=26			4.5+	18.4		S-6: Poor recovery; possible coarse gravel / COBBLE
747.7	21									
746.7	22									
745.7	23									
744.7	24									
743.7	25	S-7	1.5	8-13-17 N=30			4.5+	17.4		
742.7	26									
741.7	27									
740.7	28									
739.7	29									
738.7	30	S-8	1.5	8-11-13 N=24			4.5+	16.0		
737.7	31									
736.7	32					32.0				
735.7	33					Poorly graded SAND with gravel, mostly coarse to fine sand, little coarse to fine gravel, moist				
734.7	34				SP					
733.7	35	S-9	1.5	28-11-14 N=25		Grades wet at 34' 34.5	2.75			
732.7	36					Brown lean CLAY; mostly clayey fines, trace coarse to fine gravel, moist				
731.7	37									
730.7	38				CL					
729.7	39									
728.7	40	S-10	1.5	5-4-4 N=8		Grades gray with coarse to fine sand	2.75	23.1		

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING — B-1 — Sheet: 2 of 2

Project No.: 231349 **Boring No.:** B-1

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
730.9	41				CL	Gray lean CLAY with sand; mostly clayey fines, little coarse to fine sand, wet 42.0				
729.9	42					Gray poorly graded SAND; mostly coarse to fine sand, moist				
728.9	43									
727.9	44	S-11	1.5	7-7-7 N=14	SP					
726.9	45									
725.9	46									
724.9	47									
723.9	48									
722.9	49									
721.9	50	S-12	1.5	9-7-7 N=14		50.0				
						End of Boring				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING — B-2 — Sheet: 2 of 2

Project No.: 231349 **Boring No.:** B-2

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	UCS psf	REMARKS
729.5	41									
728.5	42	U-12	2.0	Shelby						
727.5	43									
726.5	44	S-13	1.5	3-3-3 N=6	SM	Gray silty SAND; mostly medium to fine sand, some silty fines, wet				Augers charged with water at 45.0'
725.5	45									
724.5	46									
723.5	47									
722.5	48									
721.5	49									
720.5	50	S-14	1.5	2-2-4 N=6		50.0				
						End of Boring				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING — B-3 — Sheet: 2 of 2

Project No.: 231349 **Boring No.:** B-3

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	UCS psf	REMARKS
727.7	41				CL	Brown lean CLAY; mostly clayey fines, trace coarse to fine gravel, moist 42.0				
726.7	42					Gray poorly graded SAND; mostly medium to fine sand, moist				
725.7	43									
724.7	44	S-11	1.5	3-3-3 N=6	SP					
723.7	45									
722.7	46									
721.7	47									
720.7	48									
719.7	49									
718.7	50	S-12	1.5	7-7-6 N=13		50.0				
						End of Boring				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

Know what's below. Call before you dig. 811

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL
REPLACEMENT AND ROAD RECONSTRUCTION
RIVERSIDE DR TO CHALMERS RD
SOIL BORING LOGS 1 TO 3

SCALE PLAN: NTS

DRAWING No. AA23004-12

SHEET No. 12 OF 15

LOG OF BORING

Project No.: 231349
Boring No.: B-4
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: CME 55
Crew Chief: KE Field Eng.: BG Rev. By: RS
Coordinates: N=279755.0 E=13307355.9 (MI South ift)
Elevation: 766.3 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 06/30/2023 Date End: 06/30/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing	HSA	4 1/4"	During	18.5
Sampler	SPT	2"	End	18.5
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings. Cave in at 21.0 ft.
Depth Drilled: 40.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	UCS pcf	REMARKS
765.3	1					7" HMA 0.6				
764.3	2	S-1	1.0	3-3-4 N=7		Brown lean CLAY; mostly clayey fines, few coarse to fine gravel, moist	4.5+			S-1, S-8: Poor recovery; possible coarse gravel / COBBLE
763.3	3									
762.3	4									
761.3	5	S-2	1.4	4-4-3 N=7			3.25	8.9		
760.3	6				CL					
759.3	7	S-3	1.3	2-3-3 N=6			3.75	14.7		
758.3	8									
757.3	9									
756.3	10	S-4	1.5	3-5-6 N=11		Grades with trace organics, twigs at 8.5'	4.5+	13.9		
755.3	11					11.0				
754.3	12	S-5	1.5	7-12-15 N=27		Brown lean CLAY with sand; mostly clayey fines, little fine sand, moist	4.5+			
753.3	13									
752.3	14	S-6	1.5	9-9-12 N=21			4.5+	11.0		
751.3	15				CL					
750.3	16									
749.3	17									
748.3	18									
747.3	19	S-7	1.5	24-8-12 N=20		Grades with few gravel at 18.5'	4.5+	18.2		
746.3	20					22.0				
745.3	21									
744.3	22									
743.3	23									
742.3	24	S-8	1.0	5-4-4 N=8	GP	Poorly graded GRAVEL with sand; mostly coarse to fine gravel, little coarse to fine sand, trace clayey fines, wet		14.4		
741.3	25					27.0				
740.3	26									
739.3	27									
738.3	28									
737.3	29	S-9	1.5	4-3-4 N=7		Brown poorly graded SAND with gravel; mostly coarse to fine sand, little fine gravel, trace clayey fines, wet				
736.3	30									
735.3	31									
734.3	32									
733.3	33									
732.3	34	S-10	1.5	9-8-8 N=16	SP					
731.3	35									
730.3	36									
729.3	37									
728.3	38					Grades without gravel at 37.0'				
727.3	39									End of Boring at 40.0'
726.3	40	S-11	1.5	2-2-3 N=5		40.0				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-5
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: CME 55
Crew Chief: KE Field Eng.: BG Rev. By: RS
Coordinates: N=279717.5 E=13307389.9 (MI South ift)
Elevation: 760.8 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 06/30/2023 Date End: 06/30/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing	HSA	4 1/4"	During	19.0
Sampler	SPT	2"	End	16.5
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings. Cave in at 20.0 ft.
Depth Drilled: 40.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
759.8	1					6 1/2" HMA 0.5				
758.8	2	S-1	1.0	6-4-4 N=8		Brown lean CLAY; mostly clayey fines, few coarse to fine gravel, moist	4.5			S-1, S-2: Poor recovery; possible coarse gravel / COBBLE
757.8	3									
756.8	4									
755.8	5	S-2	0.8	2-3-4 N=7			1.5	18.6		
754.8	6									
753.8	7	S-3	1.5	3-2-3 N=5		Grades with trace organics and occasional roots	2.0	21.0		
752.8	8									
751.8	9									
750.8	10	S-4	1.5	4-4-6 N=10	CL		4.0	20.7		
749.8	11									
748.8	12									
747.8	13					Grades without organics, without gravel with few fine sand				
746.8	14									
745.8	15	S-5	1.5	7-11-13 N=24			4.5+	18.1		
744.8	16									
743.8	17									
742.8	18									
741.8	19					19.0				
740.8	20	S-6	1.5	6-5-5 N=10		Poorly graded GRAVEL with sand; mostly coarse to fine gravel, little coarse to fine sand, trace clay, wet				
739.8	21									
738.8	22									
737.8	23									
736.8	24	S-7	1.5	4-4-4 N=8						
735.8	25				GP					
734.8	26									
733.8	27									
732.8	28									
731.8	29	S-8	1.5	7-7-5 N=12						
730.8	30									
729.8	31									
728.8	32									
727.8	33									
726.8	34	S-9	1.5	4-5-4 N=9		34.0	2.75			
725.8	35					Gray lean CLAY with sand; mostly clayey fines, little coarse to fine sand, moist				
724.8	36									
723.8	37									
722.8	38				CL					
721.8	39									
720.8	40	S-10	1.5	2-3-2 N=5		40.0	1.75	20.4		End of Boring at 40.0'

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-6
Sheet: 1 of 2

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: BG/JV Rev. By: RS
Coordinates: N=279843.3 E=13307307.6 (MI South ift)
Elevation: 765.6 ft Datum: NAVD 88 (GPS Observation)
Notes: Elevations obtained from laser level

Date Begin: 07/13/2023 Date End: 07/14/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	None
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings.
Depth Drilled: 11.5 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
765.4	0.25			2		13" Sandy Topsoil				Fill: 0.0' to 11.5'
765.1	0.50									
764.9	0.75									
764.6	1.00					1.1				
764.4	1.25					Brown poorly graded SAND with silt; mostly coarse to fine sand, few silty fines, few coarse to fine gravel, moist, Fill				
764.1	1.50									
763.9	1.75									
763.6	2.00	A-1			SP					
763.4	2.25									
763.1	2.50			5						
762.9	2.75					2.8				
762.6	3.00	A-2				Brown sandy lean CLAY; mostly clayey fines, some coarse to fine sand, moist, Fill	2.0			
762.4	3.25									
762.1	3.50									
761.9	3.75									
761.6	4.00	A-3								
761.4	4.25						2.0			
761.1	4.50				CL					
760.9	4.75									
760.6	5.00									
760.4	5.25									
760.1	5.50					5.5				
759.9	5.75					Brown lean CLAY; mostly clayey fines, few coarse to fine sand, moist, Fill				
759.6	6.00	A-4								
759.4	6.25									
759.1	6.50									
758.9	6.75				CL					
758.6	7.00						3.5			
758.4	7.25						1.75			
758.1	7.50					7.5				
757.9	7.75	A-5				Brown lean CLAY; mostly clayey fines, few coarse to fine sand, moist, Fill with occasional metal debris				
757.6	8.00									
757.4	8.25									
757.1	8.50									
756.9	8.75									
756.6	9.00									
756.4	9.25									
756.1	9.50									
755.9	9.75									
755.6	10.00					10.0				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-6
Sheet: 2 of 2

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
755.4	10.25	A-6				Brown lean CLAY; mostly clayey fines, few coarse to fine sand, moist, Fill with occasional metal debris	2.0			
755.1	10.50									
754.9	10.75				CL					
754.6	11.00									
754.4	11.25									
754.1	11.50					11.5				
						End of Boring				Auger refusal at 11.5' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-6A
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: IA Rev. By: RS
Coordinates: N=279843.2 E=13307307.6 (MI South ift)
Elevation: 765.6 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 07/17/2023 Date End: 07/17/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	4.0
Sampler	Hand Auger	3 1/4"	End	4.0
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings.
Depth Drilled: 7.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
765.4	0.25					12" Sandy Topsoil				Fill: 0.0' to 3.5'
765.1	0.50									
764.9	0.75									
764.6	1.00					1.0				
764.4	1.25					Brown poorly graded SAND with silt and gravel; mostly coarse to fine sand, little medium to fine gravel, few silty fines, moist, Fill with aluminum foil fragments, roots and wood debris				
764.1	1.50									
763.9	1.75									
763.6	2.00	A-1								
763.4	2.25									
763.1	2.50				SP-SM					
762.9	2.75									
762.6	3.00									
762.4	3.25									
762.1	3.50					3.5				
761.9	3.75					Brown poorly graded SAND with clay; mostly coarse to fine sand, few clayey fines, moist Grades wet at 4.0'				
761.6	4.00	A-2								
761.4	4.25				SP-SC					
761.1	4.50	A-3				4.3				
760.9	4.75					Brown lean CLAY; mostly clayey fines, few medium to fine sand, trace of medium to fine gravel, moist				
760.6	5.00									
760.4	5.25	U-4	0.5					2.5		
760.1	5.50									
759.9	5.75				CL					
759.6	6.00	U-5	0.4					2.5		
759.4	6.25									
759.1	6.50									
758.9	6.75									
758.6	7.00					7.0				
						End of Boring				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-7
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: JV Rev. By: RS
Coordinates: N=279845.3 E=13307312.9 (MI South ift)
Elevation: 756.9 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 07/14/2023 Date End: 07/14/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	None
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings.
Depth Drilled: 1.8 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
756.7	0.25					12" Silty Topsoil with roots				
756.4	0.50									
756.2	0.75									
755.9	1.00					1.0				
755.7	1.25					Brown poorly graded SAND with clay and gravel; mostly coarse to fine sand, little coarse to fine gravel, few clayey fines, moist				
755.4	1.50				SP					
755.2	1.75					1.8				
						End of Boring				Hand Auger refusal at 1.8' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

Know what's below. Call before you dig. 811

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL
REPLACEMENT AND ROAD RECONSTRUCTION
RIVERSIDE DR TO CHALMERS RD
SOIL BORING LOGS 4 TO 7

SCALE PLAN: NTS
DRAWING No. AA23004-13
SHEET No. 13 OF 15

Plotted: Dec 11, 2025, 3:19 PM by user: 1179 - Saved: 12/11/2025 by user: 1179
J:\AA\Design\AA23004 - E. Huron River Drive Retaining Wall\DWG\AA23004_SBL.dwg

LOG OF BORING

Project No.: 231349
Boring No.: B-7A
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: JV Rev. By: RS
Coordinates: N=279845.3 E=13307312.8 (MI South ift)
Elevation: 756.9 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 07/14/2023 Date End: 07/14/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	None
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings.

Depth Drilled: 1.7 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
756.7	0.25					12" Silty Topsoil				
756.4	0.50									
756.2	0.75									
755.9	1.00					1.0				
755.7	1.25					Brown poorly graded SAND with clay and gravel; mostly coarse to fine sand, little coarse to fine gravel, few clayey fines, moist				
755.4	1.50	A-1			SP	1.7				
						End of Boring				Hand auger refusal at 1.7' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-9
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: IA Rev. By: RS
Coordinates: N=279764.8 E=13307368.4 (MI South ift)
Elevation: 761.3 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 07/18/2023 Date End: 07/18/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	4.0
Sampler	Hand Auger	3 1/4"	End	4.0
Core			Seepage	4.0
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings.

Depth Drilled: 7.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
761.1	0.25					8" Clayey Topsoil				Fill: 0.0' to 7.0'
760.8	0.50					0.7				
760.6	0.75					Brown lean CLAY with sand; mostly clayey fines, little coarse to fine sand, few coarse to fine gravel, moist, Fill with occasional root fragments				
760.3	1.00									
760.1	1.25									
759.8	1.50	A-1				1.5				
759.6	1.75									
759.3	2.00									
759.1	2.25									
758.8	2.50									
758.6	2.75									
758.3	3.00				CL	Grades without root fragments				
758.1	3.25	A-2				2.0				
757.8	3.50									
757.6	3.75									
757.3	4.00					Grades with possible asphalt debris at 3.7'				
757.1	4.25					Grades with wet sand seams at 4.0'				
756.8	4.50									
756.6	4.75									
756.3	5.00					5.0				
756.1	5.25	A-3				Brown lean CLAY; mostly clayey fines, trace medium to fine sand, moist, Fill				
755.8	5.50									
755.6	5.75									
755.3	6.00				CL					
755.1	6.25									
754.8	6.50									
754.6	6.75					Grades with organic inclusions and occasional roots at 6.5'				
754.3	7.00	A-4				7.0				
						End of Boring				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-11
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: IA Rev. By: RS
Coordinates: N=279770.9 E=13307376.6 (MI South ift)
Elevation: 748.0 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 07/18/2023 Date End: 07/18/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	1.5
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings.

Depth Drilled: 1.7 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
747.8	0.25					20" Dark Brown Clayey Topsoil with roots				
747.5	0.50									
747.3	0.75									
747.0	1.00	A-1								
746.8	1.25									
746.5	1.50					1.7				
						End of Boring				Auger refusal at 1.7' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-8
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: BG Rev. By: RS
Coordinates: N=279847.4 E=13307317.3 (MI South ift)
Elevation: 750.4 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 07/13/2023 Date End: 07/13/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	2.6
Sampler	Hand Auger	3 1/4"	End	2.6
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings, patched pavement with cold patch.

Depth Drilled: 4.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
750.2	0.25	A-1		4		36" Clayey Topsoil				
749.9	0.50									
749.7	0.75									
749.4	1.00									
749.2	1.25									
748.9	1.50									
748.7	1.75									
748.4	2.00									
748.2	2.25									
747.9	2.50	A-2		5		3.0				
747.7	2.75									
747.4	3.00									
747.2	3.25	A-3			CL	Dark brown lean CLAY; mostly clayey fines, moist, Fill with occasional tree roots and wood debris	2.25	49.9		Small plastic wire casing encountered at 3.0'
746.9	3.50									
746.7	3.75									
746.4	4.00					End of Boring				Hand auger refusal at 4.0' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-10
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: BG Rev. By: RS
Coordinates: N=279767.8 E=13307372.1 (MI South ift)
Elevation: 755.1 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 07/19/2023 Date End: 07/19/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	9.0
Sampler	Hand Auger	3 1/4"	End	9.0
Core			Seepage	9.0
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings.

Depth Drilled: 9.2 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
754.9	0.25					18" Clayey Topsoil				Fill: 0.0' to 7.5'
754.6	0.50									
754.4	0.75									
754.1	1.00									
753.9	1.25									
753.6	1.50					1.5				
753.4	1.75	A-1				Brown lean CLAY; mostly clayey fines, trace fine gravel, moist, Fill with occasional asphalt debris and root fragments	2.0			
753.1	2.00									
752.9	2.25									
752.6	2.50									
752.4	2.75									
752.1	3.00									
751.9	3.25	A-2					1.75			
751.6	3.50									
751.4	3.75									
751.1	4.00									
750.9	4.25									
750.6	4.50									
750.4	4.75	A-3			CL		1.75			
750.1	5.00									
749.9	5.25									
749.6	5.50									
749.4	5.75									
749.1	6.00									
748.9	6.25									
748.6	6.50									
748.4	6.75									
748.1	7.00	A-4				Grades with few coarse to fine sand at 6.9'	2.0			
747.9	7.25									
747.6	7.50					7.5				
747.4	7.75					Brown lean CLAY with sand; mostly clayey fines, little coarse to fine sand, moist				
747.1	8.00									
746.9	8.25									
746.6	8.50				CL					
746.4	8.75									
746.1	9.00					Grades with wet sand seam at 9.0'				
						9.2				
						End of Boring				Auger refusal at 9.2' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-11A
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: IA Rev. By: RS
Coordinates: N=279770.9 E=13307376.6 (MI South ift)
Elevation: 748.0 ft Datum: NAVD 88 (GPS Observation)
Notes:

Date Begin: 07/18/2023 Date End: 07/18/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	1.5
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings.

Depth Drilled: 2.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
747.8	0.25					18" Clayey Topsoil				
747.5	0.50									
747.3	0.75									
747.0	1.00									
746.8	1.25	A-1								
746.5	1.50					1.5				
746.3	1.75				SP-SC	Brown poorly graded SAND with clay; mostly coarse to fine sand, few clayey fines, wet				
746.0	2.00					2.0				
						End of Boring				Auger refusal at 2.0' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

Know what's below. Call before you dig. 811

NO.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION

RIVERSIDE DR TO CHALMERS RD

SOIL BORING LOGS 7A TO 11A

SCALE PLAN: NTS

DRAWING No. AA23004-14

SHEET No. 14 OF 15

LOG OF BORING

Project No.: 231349
Boring No.: B-12
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: IA Rev. By:RS
Coordinates: N=279804.0 E=13307335.7 (MI South ift)
Elevation: 763.8 ft Datum: NAVD 88 (GPS Observation)
Notes:

Plugging Record: Backfilled borehole with compacted cuttings, patched pavement with cold patch.

Date Begin: 07/18/2023 Date End: 07/18/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	None
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 6.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
763.6	0.25					8" Clayey Topsoil				Fill: 0.0' to 6.0'
763.3	0.50					0.7				
763.1	0.75					Brown lean CLAY with sand; mostly clayey fines, little coarse to fine sand, few coarse to fine gravel, moist, Fill				
762.8	1.00									
762.6	1.25									
762.3	1.50									
762.1	1.75									
761.8	2.00	A-1					1.5			
761.6	2.25									
761.3	2.50									
761.1	2.75									
760.8	3.00						2.0			
760.6	3.25									
760.3	3.50				CL					
760.1	3.75									
759.8	4.00	A-2								
759.6	4.25									
759.3	4.50									
759.1	4.75									
758.8	5.00									
758.6	5.25									
758.3	5.50									
758.1	5.75									
757.8	6.00	A-3				Grades with occasional root fragments at 5.8' 6.0	3.0			
						End of Boring				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-13
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: BG Rev. By:RS
Coordinates: N=279807.1 E=13307341.0 (MI South ift)
Elevation: 757.0 ft Datum: NAVD 88 (GPS Observation)
Notes:

Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/19/2023 Date End: 07/19/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	None
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 2.5 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
756.8	0.25					18" Clayey Topsoil				Fill: 0.0' to 2.5'
756.5	0.50									
756.3	0.75									
756.0	1.00									
755.8	1.25									
755.5	1.50	A-1				1.5	2.0			
755.3	1.75					Brown lean CLAY: mostly clayey fines, trace coarse to fine gravel, moist, Fill with occasional asphalt debris and root fragments				
755.0	2.00				CL					
754.8	2.25									
754.5	2.50	A-2				2.5	2.0			
						End of Boring				Auger refusal at 2.5' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

LOG OF BORING

Project No.: 231349
Boring No.: B-14
Sheet: 1 of 1

Project: Huron River Drive Slope Failure
Client: Spalding DeDecker
Location: Ann Arbor, Michigan
Drill Type: Hand Auger
Crew Chief: Field Eng.: IA Rev. By:RS
Coordinates: N=279807.1 E=13307341.0 (MI South ift)
Elevation: 757.0 ft Datum: NAVD 88 (GPS Observation)
Notes:

Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/27/2023 Date End: 07/27/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	5.0
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 9.2 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100% QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
756.8	0.25					2" Sandy Topsoil 0.2				Fill: 0.0' to 6.0'
756.5	0.50					Brown lean CLAY with sand and gravel; mostly clayey fines, some coarse to fine sand, little coarse to fine gravel, moist, Fill				
756.3	0.75									
756.0	1.00						2.5			
755.8	1.25									
755.5	1.50									
755.3	1.75									
755.0	2.00									
754.8	2.25									
754.5	2.50						2.5			
754.3	2.75									
754.0	3.00									
753.8	3.25									
753.5	3.50				CL					
753.3	3.75									
753.0	4.00									
752.8	4.25									
752.5	4.50						3.5			
752.3	4.75									
752.0	5.00									
751.8	5.25									
751.5	5.50									
751.3	5.75									
751.0	6.00	A-1				6.0	4.0			
750.8	6.25					Brown lean CLAY; mostly clayey fines, few medium to fine sand, trace fine gravel, moist				
750.5	6.50									
750.3	6.75									
750.0	7.00									
749.8	7.25	U-1						15.6		
749.5	7.50									
749.3	7.75				CL					U-1: Atterberg Limits ASTM D4318: LL = 41, PL = 18, PI = 23
749.0	8.00					Grades with few fine gravel				
748.8	8.25									
748.5	8.50									
748.3	8.75	U-2					4.0			
748.0	9.00					9.2				
						End of Boring				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.

Know what's below. Call before you dig. 811

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
01	REFRESH FOR NEW BID CYCLE	11/14/25	RD	AL

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

E. HURON RIVER DRIVE RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION

RIVERSIDE DR TO CHALMERS RD

SOIL BORING LOGS 12 TO 14

SCALE PLAN: NTS

DRAWING No. AA23004-15

SHEET No. 15 OF 15