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PLYMOUTH CREEK STREAM RESTORATION PHASE 2

CITY PROJECT NO. WR25001

CITY OF PLYMOUTH, MINNESOTA

moore engineering, inc.
a Vistal company

City of Plymouth

Bassett Creek Watershed Management Commission

VICINITY MAP



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PROJECT No. 32231

PRELIMINARY

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PRELIMINARY

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GENERAL
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
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G-002

CIVIL LEGEND

EXISTING

- BENCHMARK
- IRON MONUMENT FOUND
- EXISTING PROPERTY LINE
- EXISTING PLAT LOT LINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- EXISTING PLAT EASEMENT LINE
- EXISTING GAS LINE MARKER
- EXISTING GAS METER
- EXISTING GAS GATE VALVE
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING LIGHT POLE W/SIGN
- EXISTING GUY WIRE
- EXISTING TRAFFIC SIGNAL ARM
- EXISTING SIGN
- EXISTING CULVERT W/ FLARED END SECTION (FES)
- EXISTING FLARED END SECTION (FES)
- EXISTING CURB STOP
- EXISTING GATE VALVE
- EXISTING HYDRANT W/ GATE VALVE
- EXISTING YARD HYDRANT
- EXISTING PROPANE TANK
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING STORM SEWER CATCH BASIN
- EXISTING STORM SEWER MANHOLE
- EXISTING WATER MAIN
- EXISTING WATER SERVICE W/ CURB STOP
- EXISTING SANITARY SEWER
- EXISTING SANITARY FORCEMAIN
- EXISTING SANITARY SEWER SERVICE
- EXISTING STORM SEWER
- EXISTING STORM SEWER FORCEMAIN
- EXISTING STEAM PIPE
- EXISTING AIR CONDITIONER
- EXISTING WATER METER PIT
- EXISTING IRRIGATION HEAD
- EXISTING ELECTRIC OUTLET
- EXISTING ELECTRIC METER
- EXISTING ELECTRIC TRANSFORMER
- EXISTING UTILITY PEDESTAL
- EXISTING UTILITY MANHOLE
- EXISTING UTILITY VAULT
- EXISTING UNDERGROUND COMMUNICATIONS
- EXISTING UNDERGROUND FIBER
- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD TELEPHONE
- EXISTING UNDERGROUND TELEVISION
- EXISTING OVERHEAD TELEVISION
- EXISTING UNDERGROUND GAS
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD POWER
- EXISTING BARBED WIRE FENCE
- EXISTING CHAIN LINK OR STEEL FENCE
- EXISTING PVC OR WOOD FENCE
- EXISTING RAILROAD
- EXISTING SHRUB
- EXISTING STUMP
- EXISTING BOULDER
- EXISTING TREE / TREE CLUSTER
- EXISTING CLUSTER BOX UNIT (CBU)
- EXISTING MAILBOX
- EXISTING CURB AND GUTTER
- EXISTING CURB AND GUTTER LEVELING

PROPOSED

- NEW PROPERTY LINE
- NEW PLAT LOT LINE
- NEW RIGHT OF WAY LINE
- NEW EASEMENT LINE
- NEW PLAT EASEMENT LINE
- CONSTRUCTION EASEMENT
- CONSTRUCTION LIMITS
- NEW LIGHT POLE
- NEW LIGHT POLE W/ SIGN
- NEW GUY WIRE
- NEW SIGN
- TRAFFIC CONTROL - DRUM
- TRAFFIC CONTROL - TUBULAR MARKER
- NEW CULVERT W/ FLARED END SECTION (FES)
- NEW FLARED END SECTION (FES)
- NEW CURB STOP
- NEW GATE VALVE
- NEW HYDRANT W/ GATE VALVE
- NEW YARD HYDRANT
- NEW TAPPING SLEEVE
- NEW FITTINGS
- NEW PLUG
- NEW SANITARY SEWER MANHOLE
- NEW SANITARY SEWER CLEANOUT
- NEW STORM SEWER CATCH BASIN
- NEW STORM SEWER MANHOLE
- NEW WATER MAIN
- NEW WATER MAIN (DIRECTIONAL DRILLED, CASED OR BURST)
- NEW WATER SERVICE W/CURB STOP (S.B. ELEV.)
- NEW SANITARY SEWER
- NEW SANITARY SEWER (DIRECTIONAL DRILLED OR CASED)
- NEW CURED IN PLACE PIPE (CIPP)
- NEW SANITARY FORCEMAIN
- NEW SANITARY SEWER SERVICE (S.S. ELEV.)
- NEW STORM SEWER
- NEW STORM SEWER (DIRECTIONAL DRILLED OR CASED)
- NEW STORM SEWER FORCEMAIN
- NEW STEAM PIPE
- INSULATION PER DETAIL
- NEW BARBED WIRE FENCE
- NEW CHAIN LINK OR STEEL FENCE
- NEW PVC OR WOOD FENCE
- NEW CLUSTER BOX UNIT (CBU)
- NEW MAILBOX
- NEW LARGE DECIDUOUS TREE
- NEW SMALL DECIDUOUS TREE
- NEW SHRUB
- NEW LARGE EVERGREEN TREE
- NEW SMALL EVERGREEN TREE

REMOVALS

- INDICATES REMOVAL
- REMOVE CURB AND GUTTER
- REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE AGGREGATE SURFACE
- REMOVE TREE / TREE CLUSTER

PAVEMENT REHAB

- UNIFORM MILL & OVERLAY
- TAPERED MILL & OVERLAY
- LEVELING COURSE
- RECLAIM
- ASPHALT PATCH
- CHIP SEAL

PAVEMENT

- NEW INFLOW CURB AND GUTTER
- NEW OUTFLOW CURB AND GUTTER
- NEW ASPHALT SURFACE
- NEW CONCRETE SURFACE
- NEW GRANULAR SURFACE
- NEW CRUSHED CONCRETE SURFACE
- NEW DECORATIVE COLORED CONCRETE
- NEW ASPHALT SIDEWALK OR MULTI-USE PATH
- NEW CONCRETE SIDEWALK OR /MULTI-USE PATH
- NEW CONCRETE APPROACH OR DRIVEWAY
- NEW DETECTABLE WARNING PANEL
- NEW GRAVEL APPROACH OR DRIVEWAY
- NEW CONCRETE VALLEY GUTTER
- NEW MEDIAN NOSE APRON
- NEW ADA RAMP W/ WARNING PANEL

SOIL DISTURBANCE

- DISTURBANCE AREA / TOPSOIL REMOVAL
- REMOVE STOCKPILE
- EXISTING STOCKPILE
- TEMPORARY STOCKPILE
- PERMANENT STOCKPILE
- REAR YARD GRADING
- GRASS BUFFER STRIP

SOIL STABILIZATION

- DISTURBED SOIL STABILIZATION
- STRAW MULCH
- SEEDING & STRAW MULCH
- SEEDING & HYDRO MULCH
- TOPSOIL, SEEDING & STRAW MULCH
- TOPSOIL, SEEDING & HYDRO MULCH
- TOPSOIL, SEEDING & BLANKET

MISCELLANEOUS

- EXISTING RIPRAP
- NEW RIPRAP
- EXISTING LANDSCAPING AREA
- NEW LANDSCAPING AREA
- EXISTING WATER SURFACE
- NEW WATER SURFACE
- EXISTING WETLAND

EROSION CONTROL

- DRAINAGE BREAK LINE
- EXISTING DRAINAGE DIRECTION
- 2.0% FINISHED DRAINAGE DIRECTION & SLOPE
- 4:1 FINISHED GRADE
- 895 EXISTING CONTOUR ELEVATION
- 895 FINISHED CONTOUR ELEVATION
- FL:900.07 GRADE ELEVATIONS
- SEDIMENTATION CONTROL WATTLE
- SEDIMENTATION CONTROL FENCE
- ROCK CHECK
- S.C.E. STABILIZED CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- INLET PROTECTION DEVICE

ABBREVIATIONS:

BOC = BACK OF CURB
BOW = BACK OF WALK
C = COMMUNICATION
CB# = STORM SEWER CATCH BASIN
CIPP = CURED IN PLACE PIPE
CL = CENTERLINE
CSP = CORRUGATED STEEL PIPE
CO# = SANITARY SEWER CLEANOUT
CS# = CONTROL STRUCTURE
DIA = DIAMETER
DIP = DUCTILE IRON PIPE
E = ELECTRICAL
ECC = EDGE OF CRUSHED CONCRETE
EG = EXISTING GRADE
EOC = EDGE OF CONCRETE
EOG = EDGE OF GRAVEL
EOP = EDGE OF PAVEMENT
EOW = EDGE OF WALK
EX = EXISTING
F = FIBER OPTIC
FES = FLARED END SECTION
FG = FINISHED GRADE
FL = FLOWLINE
FM = FORCEMAIN
G = GAS LINE
HP = HIGH POINT
INV = INVERT
LP = LOW POINT
MA = MATCH
M# = STORM SEWER MANHOLE
MT# = STORM SEWER TEE MANHOLE
MM# = STORM SEWER MULTI-MANHOLE
MC = MIDPOINT OF CURVE
OHP = OVERHEAD POWER
OHT = OVERHEAD TELEPHONE
OHTV = OVERHEAD TELEVISION
PC = POINT OF CURVATURE
PRC = POINT OF REVERSE CURVE
PVC = POLYVINYL CHLORIDE PIPE
PT = POINT OF TANGENCY
RIM = RIM OF STRUCTURE
S# = SANITARY SEWER MANHOLE
S.B. ELEV = STOP BOX ELEVATION
S.S. ELEV = SANITARY SEWER SERVICE INVERT
SS = SANITARY SEWER
ST = STORM SEWER
STA = ALIGNMENT STATION
T = TELEPHONE
TOC = TOP OF CONCRETE
TOP = TOP OF PAVEMENT
TOP = TOP OF PIPE
TOW = TOP OF WALK
TR# = SANITARY TELEVISING RISER
TRANS = TRANSFORMER
TV = TELEVISION
U = UTILITY (UNKNOWN UTILITY)

PRELIMINARY

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City of Plymouth

Bassett Creek Watershed Management Commission

CIVIL
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
CIVIL LEGEND

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GOVERNING SPECIFICATIONS:

1. The following specifications apply to this project, listed in order of precedence:
   a. General and Technical specifications in project manual.
   b. City of Plymouth Engineering Guidelines, Standard Detail Specifications, and Technical Specifications, current edition.
   c. City Engineers Association of Minnesota Construction Standard Specifications, current edition.
   d. Minnesota Department of Transportation Standard Specifications for Construction, current edition.

GENERAL NOTES:

1. Take necessary precautions required to protect adjacent properties during the construction operations.
2. Notify Engineer where section, subsection or property monuments are encountered, before such monuments are removed. Protect and carefully preserve all property markers and monuments until the engineer and authorized surveyor has witnessed or otherwise referenced the location.
3. Coordinate a staging area location with the City for construction. There is no guarantee that City has an area suitable for staging.
4. The removal and replacement of existing street signs are incidental to the installation of the new utility. Replace any damaged signs. Coordinate with homeowners or businesses on the removal/relocation of personal/business affects prior to construction taking place in that area.
5. All mailbox relocations must be coordinated with the city and the post office.
6. The drawings designate those existing items for removal, replacement, or improvement. If not designated for removal, replacement, or improvement, all other existing items within the site to be protected.
7. Any construction traffic damage to roads outside the construction area to be repaired by the contractor.
8. Contractor to protect existing ADA ramps not designated for replacement. Any damage caused by construction equipment to the ADA ramp is the responsibility of the contractor to repair.

UNDERGROUND NOTES:

1. Coordinate any utility relocations.
2. Unless otherwise noted, any removal, relocation, replacement, or bracing of power poles or any other utilities is the responsibility of the Contractor.
3. Existing utilities (both public and private) shown on the plans are approximate and may not be complete. It will be the contractor's responsibility to verify and locate any utilities prior to excavation. There will be no additional payment for exploratory time.
4. There is a potential for water on the project. It shall be the contractor's responsibility to dewater for constructability.
5. No extra payment will be made for bedding material for pipe, structures, or fittings.
6. The subsurface utility information in this plan is Utility Quality Level D. This quality level was determined according to the guidelines of ASCE 38-02 entitled "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data".
7. Not all fittings required for a complete installation may be shown on the plans. Provide all required fittings (incidental to other project items).

REMOVAL NOTES

1. All miscellaneous debris, fittings, pipe material, appurtenances etc. Resulting from construction operations shall be first right of refusal to the owner. Otherwise, it will become the property of the contractor and shall be properly disposed of off-site.
2. All removals shall be saw cut. Saw cuts must be full depth.
3. Reclaimed material from the path to be removed from site leaving approximately three inches in place. Reclaimed material to be compacted and graded to ensure drainage off of and away from path.

TRAFFIC CONTROL NOTES:

1. The contractor will be responsible for maintaining access to all businesses/residences/public facilities at all times. This would include building & maintaining any required temporary access roadways.
2. Contractor must follow the current M.U.T.C.D. for traffic control for any and all construction operations that interfere with traffic.
3. Contractor to give no less than 48 hour notice prior to any work being done on the project. All no parking signs and any traffic control shall be posted at least 48 hours prior to work commencing.

STANDARD PLANS THE FOLLOWING STANDARD PLANS, APPROVED BY THE MINNESOTA DEPARTMENT OF TRANSPORTATION & THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.*			
INDEX NO.	**DESCRIPTION**	**APPROVED**	**REVISED**
5-297.250 (1 OF 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.250 (2 OF 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.250 (3 OF 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.250 (4 OF 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.250 (5 OF 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	
5-297.250 (6 OF 6)	PEDESTRIAN CURB RAMP DETAILS	11-04-2021	

BASIS OF ESTIMATED QUANTITY	
ITEM:	**APPLICATION RATE**
BSWR FOREST GROUNDCOVER	37.91 POUNDS/ACRE
EARLY SUCCESSIONAL FLOODPLAIN	33.25 POUNDS/ACRE
RESIDENTIAL TURFGRASS (RT)	200 POUNDS/ACRE
BIT TACK COAT (INCIDENTAL)	0.08 - 0.10 GALS/SY

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Bassett Creek Watershed Management Commission

CIVIL
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
GENERAL NOTES

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REVIEWER:	DTE

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Project Description/Location:
The project is located in the City of Plymouth in Hennepin County, MN. The project corridor consists of approximately 4,600 linear feet of Plymouth Creek between 41st Avenue and 38th Avenue North. The project proposes to install a number of bank and channel stabilization practices to improve channel conditions and enhance aquatic habitat. The project will also include a variety of vegetation improvements within the adjacent riparian areas, including removing invasive and undesirable species and planting native species.

Land Feature Changes:
Total disturbed area: 11.20 acres
Total existing impervious area: 0.62 acres
Total proposed impervious area: 0.62 acres
Total proposed net change in impervious area: 0.00 acres

Project Contacts:

	Agency	Contact	Phone No.
Owner:	City of Plymouth	Ben Scharenbroich	(763) 509-5527
Contractor:	TBD	TBD	TBD
State:	MPCA	MPCA Duty Officer	(651) 649-5451

Chain of Responsibility:
The Contractor is the permitee for the national pollutant discharge elimination system (NPDES) construction permit. The contractor is responsible to comply with all aspects of the NPDES construction permit at all times until the notice of termination (NOT) has been filed with the MPCA. The contractor will develop a chain of command with all operators on the site to ensure that the SWPPP with be implemented and stay in effect until the construction project is complete, the entire site has undergone final stabilization, and a notice of termination (NOT) has been submitted to the MPCA.

Contractors Responsibilities:
The Contractor shall be responsible for compliance with, monitoring, and maintenance of the requirement of the MPCA general storm water permit for construction activity. The Contractor must identify a certified erosion and sediment control supervisor. This person must be knowledgeable and experienced in the application of erosion prevention and sediment control bmp's. This person is to oversee the implementation of this SWPPP, and the installation, inspection, and maintenance of the erosion prevention and sediment control bmp's before, during, and after construction. The SWPPP is to remain in effect until the project is complete, the entire site has undergone final stabilization, and the MPCA permit been terminated.

Project Personnel and Training:
Name of person with Best Management Practices (BMP) experience who will oversee SWPPP implementation and coordinate with contractor:
TBD and will be documented in this SWPPP narrative prior to start of construction. (First name, last name, company)

SWPPP Designer:
Company: Moore Engineering Inc.
Name: Kelsey Kline
Email: Kelsey.kline@mooreengineeringinc.com
Phone: 320-281-5493
Training date(s): 5/1/2025
Training activity/content: Design of Construction SWPPP, University of Minnesota

Individual overseeing implementation, revision and/or amendment of the SWPPP that are available for an onsite inspection within 72 hours upon request of MPCA:
TBD and will be documented in this SWPPP narrative prior to start of construction.
Company: [ ]
Name: [ ]
Email: [ ]
Phone: [ ]
Training date(s): [ ]
Training activity/content: [ ]

Individual performing or supervising the installation, maintenance and repair of BMPs:
TBD and will be documented in this SWPPP narrative prior to start of construction.
Company: [ ]
Name: [ ]
Email: [ ]
Phone: [ ]
Training date(s): [ ]
Training activity/content: [ ]

Discharges to special and impaired waters:
Discharging into a special or impaired water must comply with MNR100001 Permit 2023 reference 23 of the NPDES Permit. Plymouth Creek is impaired for aquatic life (Benthic macroinvertebrates bioassessments; Chloride) and aquatic recreation (E. coli) and Medicine Lake is impaired for aquatic consumption (mercury), aquatic life (fish bioassessments), and aquatic recreation (nutrients). Both Plymouth Creek and Medicine Lake have established TMDL goals. Plymouth Creek (Basset Creek) is identified as an impaired waterbody and is included in the Upper Mississippi River Bacteria TMDL and Protection Plan and the Twin Cities Metro Area Chloride TMDL approved by the EPA. The creek also drains to Medicine Lake, which is impaired for excess nutrients and has an approved Medicine Lake Nutrient TMDL (PRJ06316-001). The project will improve water quality and habitat by repairing actively eroding sites by stabilizing streambanks; providing and improving instream and riparian habitats; and preventing erosion at other sites by installing preemptive measures to protect existing streambanks. Overall, this project will reduce erosion, total suspended solids, and phosphorous loading to Plymouth Creek and downstream waters.

Discharges to Wetlands:
Discharging into a wetland must comply with MNR100001 Permit 2023 reference 22 of the NPDES Permit. The projects will have impacts to wetlands, and a Section 404 Permit will be obtained prior to construction and will obtain WCA approval.

Permits:
The following water related permits apply to this project:

Agency	Type of Permit
Minnesota Pollution Control Agency (MPCA)	NPDES Construction Permit
	401 Water Quality Certification
City of Plymouth	WCA Approval
Department of Natural Resources (DNR)	Public Waters Work
Army Corps of Engineers	Section 404
Bassett Creek Water Management Commission	Floodplain Review

Stormwater mitigation measures proposed to be part of the final project in any environmental review document, endangered species review, archeological or other required local, state, or federal review conducted for the project:
There are no stormwater mitigation measures required as a result of an environmental, archeological or agency review. All mitigation measures-have been addressed in this plan set or the special provisions.

Any required site assessments for groundwater or soil contamination:
No site assessment for groundwater or soil contamination was conducted prior to construction for the project.

Estimated Quantities:

Item	Estimated Quantity
Rock Exit to Construction Site	3 EA
Flotation Silt Curtain	50 LF
Seeding BSWR Forest Groundcover	7.3 AC
Seeding Early Successional Floodplain	3.1 AC
Seeding Pollinator Shade Low Meadow	0.4 AC
Seeding Residential Turfgrass	0.4 AC

SWPPP Amendments:
Permitee must amend SWPPP within 7 days to include additional requirements to correct problems identified or address the following situations:
1. There is a change in design, construction, operation, maintenance, weather or seasonal conditions.
2. Inspections or investigations by site owner or operators, USEPA or MPCA officials determine the SWPPP is not minimizing discharge of pollutants to surface waters or underground waters or discharges are causing water quality standard exceedances.
3. The SWPPP is not achieving the objectives of minimizing pollutants in stormwater discharges associated with construction activity, or the SWPPP is not consistent with the terms and conditions of the permit.
4. The MPCA determines that the project's stormwater discharges may cause, have reasonable potential to cause, or contribute to non-attainment of any applicable water quality standard, or the SWPPP does not incorporate the applicable requirements of the permit.

BMP Selection and Stormwater Management:
Permittees must select, install, and maintain the BMPs identified in this SWPPP and in the NPDES permit in an appropriate and functional manner and in accordance with relevant manufacturer specifications and accepted engineering practices to minimize the discharge of pollutants in stormwater from construction activities. If erosion control netting is being utilized for soil stabilization, the permittee is encouraged to use products that have been shown to minimize impacts on wildlife.

Erosion/Sediment Control Measures:
Erosion and sediment control measures must comply with MNR100001 Permit 2023 reference 8 and 9 of the NPDES Permit.
A. Areas not to be disturbed must be properly marked before work begins.
B. Must minimize the need for disturbance of portions of the project with steep slopes.
C. Exposed soils (including stockpiles) must have erosion protection/cover initiated immediately and completed within 14 days (or 7 days per Section 23).
D. For DNR Public Waters with "work in waters restrictions" during specified fish spawning time frames, stabilization must be completed for all exposed soil areas within 200 feet of the water's edge, and draining to the water, within 24 hours during the restriction period.
E. The wetted perimeter of the last 200 linear feet of ditches must be stabilized within 24 hours of connecting to a surface water or property line.
F. Temporary or permanent ditches or swales that are being used as a sediment containment system during construction must be stabilized within 24 hours after no longer being used as a sediment containment system.
G. Pipe outlets must have energy dissipation within 24 hours of connecting to a surface water or permanent stormwater treatment system.

PRELIMINARY

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CIVIL
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CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
SWPPP

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G. Pipe outlets must have energy dissipation within 24 hours of connecting to a surface water or permanent stormwater treatment system.
H. Mulch, hydro mulch, tackifier, polyacrylamide, or similar erosion prevention practices cannot be used within the normal wetted perimeter of drainage ditches or swale sections with a continuous slope greater than 2%.
I. Must not disturb more land than what can be effectively inspected and maintained.
J. Sediment control practices must be established on downgradient perimeters and upgradient of any buffer zones.
K. If downgradient sediment controls are overloaded, based on frequent failure or excessive maintenance requirements, install additional upgradient sediment control practices or redundant BMPs to eliminate the overloading.
L. Sediment control practices must be established at the base of stockpiles on the downgradient perimeter prior to the initiation of stockpiling.
M. Stockpiles must be located outside of natural buffers or surface waters, including stormwater conveyances (e.g., curb and gutter systems) unless there is a bypass.
N. Permittees must install temporary sediment basins as required in Section 14 of the NPDES Permit.
O. Inlet protection BMPs shall be placed at all storm sewer system inlets prior to any work in those areas until permanent cover on all areas that receive discharge from the inlet are established.
P. Inlet protection may be removed for a particular inlet if a safety concern is identified, and it must be documented in this SWPPP.
Q. Vehicle tracking BMPs must be established where vehicles are exiting the site to minimize street tracking. Sediment tracked onto a public street must be removed within 24 hours.
R. Must re-install all sediment control practices adjusted or removed to accommodate short-term activities immediately after the short-term activity is completed or before the next precipitation event even if the short-term activity is not complete.
S. Street sweeping must be used in addition to vehicle tracking BMPs if the vehicle tracking BMPs alone are not adequate to prevent sediment tracking.
T. Topsoil must be preserved unless infeasible.
U. Soil compaction must be minimized.
V. Discharges from BMPs must be directed to vegetated areas, unless infeasible.
W. 50-foot natural buffers must be preserved or (if maintaining buffer is infeasible) redundant sediment controls must be provided when a surface water is located within 50 feet of the project's earth disturbances and drains to the surface water.
X. Any sediment control made of soil must be temporarily or permanently stabilized within 24 hours.

Dewatering:
Dewatering related to the construction activity must comply with MNR100001 Permit 2023 reference 10 of the NPDES Permit. Dewatering must not cause nuisance conditions in surface waters. Turbid or sediment-laden waters must be discharged to a sediment control designed to prevent discharges with visual turbidity. It is prohibited to use receiving waters as part of the treatment area. Visual inspection and photos must be taken every 24 hours of operation to ensure adequate treatment has been obtained and nuisance conditions will not result from the discharge. If nuisance conditions occur from the discharge, dewatering must cease immediately, and corrective actions must occur before dewatering is resumed. Discharge from dewatering must be protected from erosion and scouring by an acceptable energy dissipation method, such as rock riprap, or sandbags. If using filters with backwash water, backwash water must be hauled away for disposal, returned to the beginning of the treatment process, or incorporated into the site in a manner that does not erode into runoff.

Temporary dewatering activities may be required. Therefore, it is possible that a permit for the temporary appropriation of waters of the state, non-irrigation from MNDNR will be required for this project. The contractor is responsible for obtaining this permit prior to commencing dewatering activities.

Site Inspection and Maintenance:
Inspections must comply with MNR100001 Permit 2023 reference 11 of the NPDES Permit. A trained person (as identified in item 21.2.b. of the NPDES Permit) must inspect the entire construction site a minimum of once every seven days during active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours. Inspect and maintain all temporary and permanent stormwater treatment BMPs, and erosion prevention and sediment control BMPS until the site has undergone final stabilization and the NOT has been submitted. Inspect areas adjacent yo the project, surface water including drainage ditches and conveyance systems for evidence of erosion and sediment deposition. Inspect construction site vehicle exit locations, streets, and curb and gutter systems within and adjacent to the project for evidence of sedimentation from erosion or tracked sediment from vehicles. Inspect infiltration areas for signs of sediment deposition and compaction.

Record all inspections and maintenance activities in writing within 24 hours of above stated rainfall. Submit inspection reports in a format that is acceptable to the project engineer. Include the following in the records of each inspection:
A. Date and time of inspection.
B. Name of person(s) conducting inspection.
C. Accurate findings of inspections, including the specific location where corrective actions are needed.
D. Corrective actions taken (including dates, times, and party completing maintenance activities).
E. Date and amount of all rainfall events greater than 0.5 inch in 24 hours. Rainfall amounts must be obtained by a properly maintained rain gauge installed onsite, or by a weather station that is within one mile or by a weather reporting system.
F. If any discharge is observed during the inspection, it must be recorded. Discharge should also be photographed and described.
G. Any amendments to the SWPPP proposed as a result of the inspection must be documented as required in Section 6 within seven (7) calendar days.
H. All photographs of dewatering activities and documentation of nuisance conditions as a result of dewatering

Maintenance requirements are as listed below:

A. All nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow.
B. All deltas and sediment deposits must be removed from surface waters (including drainage ways, catch basins, and other drainage systems). Removal and stabilization must be completed within seven days of discovery. Contact all appropriate authorities prior to working in surface waters.
C. Sediment on paved surfaces must be removed within one calendar day of discovery, or within a shorter time to avoid a safety hazard.
D. Perimeter control devices must be repaired, replaced, or supplemented when nonfunctional or sediment reaches one-half the height of the device. Complete repairs by the end of the next business day following discovery.
E. Temporary and permanent sediment basins must be drained, and sediment removed when the depth of sediment collected reaches one-half storage volume within 72 hours of discovery.
F. Dewatering operations must be inspected and photographed at the beginning and at least once every 24 hours during operation.
G. Repair or replace inlet protection devices within 24 hours of discovery when they become nonfunctional, or sediment reaches 1/2 the height and/or depth of the device.

Methods to minimize soil compaction and preserve topsoil:
The contractor is responsible for marking areas that are not to be disturbed on the site. These areas must be marked prior to any construction occurring with stakes, flags, signs, or other appropriate methods. The contractor is responsible for not allowing construction equipment and vehicles to enter these areas in order to minimize soil compaction. Whenever feasible, the contractor must preserve topsoil from the construction site.

Pollution Prevention Measures:
A. Store all construction materials that have potential to leach pollutants, landscape materials, pesticides, fertilizers, and treatment chemicals under cover (e.g., plastic sheeting or temporary roofs) to minimize contact with stormwater.
B. Store, collect and dispose solid waste in compliance with Minn. R. Ch. 7035.
C. Limit vehicle and equipment washing to a defined area of the site. Contain runoff from the washing area to a temporary sediment basin or other effective control. Properly dispose of all waste generated by vehicles and equipment washing. Engine degreasing is not allowed on the site.
D. Provide effective containment for all liquid and solid wastes generated by washout of concrete, stucco, paint, form release oils, curing compounds and other construction materials. Liquid and solid washout wastes must not contact the ground. The liquid and solid waste that is produced must be disposed of in compliance with the MPCA rules. A sign must be installed indicating the location of the washout facility.
E. Portable toilets must be positioned so that they are secure and sanitary waste will be properly disposed of.
F. Fuel and maintain vehicles in a designated contained area whenever feasible. Use drip pans or absorbents to prevent the discharge of spills or leaked chemicals. Provide a spill kit at each location that vehicles and equipment are fueled or maintained at. Spills must be reported and cleaned up immediately as required by Minn. Stat. 115.061.
G. Store all hazardous materials and toxic waste (including but not limited to oil, diesel fuel, gasoline, hydraulic fluids, paint, petroleum-based products, wood preservatives, additives, curing compounds, and acids) in sealed containers with secondary containment. Storage and disposal of hazardous waste materials must be in compliance with Minn. R. ch. 7045

Permit Termination Conditions:
A Notice of Termination (NOT) can be submitted to the MPCA once the following guidelines are met:
A. Permanent uniform perennial vegetative cover must be established at minimum 70% density of its expected final growth.
B. The permanent stormwater treatment system is constructed, meets all requirements, and is operating as designed.
C. All temporary synthetic erosion prevention and sediment control BMPs must be removed, and the surrounding area must be restored to as designed.
D. Clean out sediment from conveyance systems and permanent stormwater treatment systems (return to design capacity).
E. For residential construction only, permit coverage terminates on individual lots if the lot is sold to the homeowner, structures are finished, and permanent cover is established. If permanent cover is not established install temporary erosion protection and downgradient perimeter control and distribute the MPCA's Homeowner Fact Sheet.
F. For construction on agricultural lands, the disturbed land must be returned to its preconstruction agricultural use.
G. When submitting the NOT ground or aerial photographs must be included to show the requirements of Section 13.2 of the NPDES Permit have been met.

Stabilization Time Frames:
A. Initiate stabilization immediately when construction has temporarily or permanently ceased on any portion of the site. Complete stabilization within the time frame listed. In many instances this will require stabilization to occur more than once during the course of the project.
B. Stabilize wetted perimeter of ditch (i.e. where the ditch gets wet).
C. Application of mulch, hydromulch, tackifier and polyarylamide are not acceptable stabilization methods in these areas.
D. Stabilize all areas of the site prior to the onset of winter. Any work still being performed will be snow mulched, seeded, and blanketed within the time frames in the NPDES permit.
E. Topsoil berms must be stabilized in order to be considered perimeter control BMPS. Use rapid stabilization method 2, 3, or 4 as directed by the engineer. The seed mix used in the rapid stabilization may be substituted as follows:
   a. Single year construction between May 1- August 1, seed with seed mixture 21-111
   b. Single year construction between August 1and October 31, seed with seed mixture 21-112
   c. Multi-year construction 22-111

PRELIMINARY

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City of Plymouth

Bassett Creek Watershed Management Commission

CIVIL
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
SWPPP

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-004

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Cover.dwg

F. Keep ditches and exposed soils in an even rough graded condition in order to be able to apply erosion control mulches, hydromulches and blankets.

G.

Area	Time Frame
Last 200 lineal feet of drainage ditch or swale	Within 24 hours of connection to surface water or property edge
Remaining portions of drainage ditch or swale	Initiate immediately when construction activity has permanently or temporarily ceased 7 days per Section 23 of the NDPES Permit
Pipe and culvert outlets	24 hours
Exposed soils and stockpiles	Initiate immediately when construction activity has permanently or temporarily ceased 7 days per Section 23 of the NPDES Permit
Within 200 feet of a public water	24 hours

Permanent Stormwater Treatment Systems:
There are no permanent stormwater treatment systems needed for the proposed project. If there is a permanent stormwater treatment system needed later in the project the contractor must design and implement the permanent stormwater treatment systems to be compliant with MNR100001 Permit 2023 reference 15 of the NPDES Permit.

Infeasibility Documentation:
No infeasible documentation requirements are anticipated for the project.

Record Retention:
The SWPPP must be kept at the site during construction by the permittee who has operational control of that portion of the site. The SWPPP and associated records must be stored and maintained by an employee or representative of the Owner for 3 years after the submission of the NOT.

Responsibility for overseeing the records will be transferred to another employee or representative should the current personnel become uninvolved with the project or Owner. These records must include the following:

1. The final SWPPP
2. Any other stormwater related permits required for the project
3. Records of all inspection and maintenance conducted during construction
4. All permanent operation and maintenance agreements that have been implemented, including all right-of-way, contracts, covenants and other binding requirements regarding perpetual maintenance
5. All required calculations for design of the temporary and permanent Stormwater Management Systems.

Permanent Cover:
Permanent cover is achieved when vegetative cover is established at minimum 70% density of its expected final growth. This can be done by using permanent seeding with mulch, erosion control blankets, riprap, gravel, concrete, bituminous, etc. The specific permanent cover types can be found in the plan sheets.

Construction Phasing:
Construction will generally work upstream to downstream starting at Dunkirk Lane. Construction will be phased to avoid having areas open that are not being actively worked on. Flotation silt curtain will be moved within the stream as construction moves downstream to ensure disturbed sediment within the stream is captured.

Chemical Treatment Systems:
Must use polymers, flocculants, or other sedimentation treatment chemicals in accordance with accepted engineering practices. Must be in compliance with MNR100001 Permit 2023 reference 9.18 of the NPDES Permit and Minn. R. 7090.

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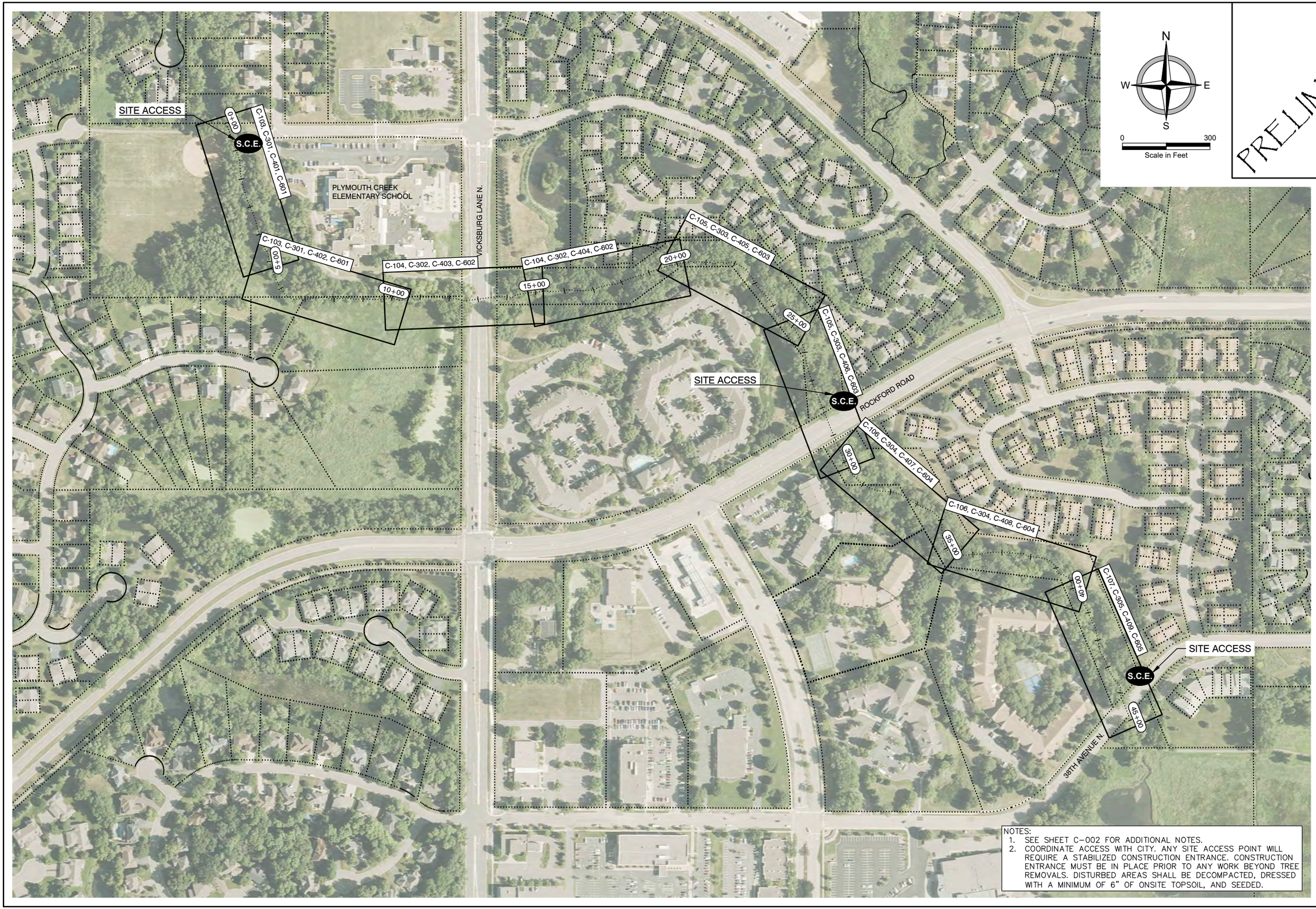
Bassett Creek Watershed Management Commission

CIVIL
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
SWPPP

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-005

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADICD\Production\32231_ProjectLayouts.dwg



NOTES:
1. SEE SHEET C-002 FOR ADDITIONAL NOTES.
2. COORDINATE ACCESS WITH CITY. ANY SITE ACCESS POINT WILL REQUIRE A STABILIZED CONSTRUCTION ENTRANCE. CONSTRUCTION ENTRANCE MUST BE IN PLACE PRIOR TO ANY WORK BEYOND TREE REMOVALS. DISTURBED AREAS SHALL BE DECOMPACTED, DRESSED WITH A MINIMUM OF 6" OF ONSITE TOPSOIL, AND SEEDED.

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Bassett Creek Watershed Management Commission

PROJECT LAYOUTS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
GENERAL LAYOUT

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-101

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADiC3D\Production\32231_ProjectLayouts.dwg

EXISTING RIPRAP

PLYMOUTH CREEK
ELEMENTARY SCHOOL

EXISTING CREEK CENTERLINE

PROPOSED CREEK CENTERLINE

PROPOSED BANKFULL WIDTH

CONST-LIMITS

SS

W

X

5+00

10+00

15+00

16005 41st Avenue North
1711822140021

16130 39th Place North
1711822410020

16120 39th Place North
1711822410019

16110 39th Place North
1711822410018

VICKSBURG LANE N.

N

W

E

S

0

80

Scale in Feet

PRELIMINARY

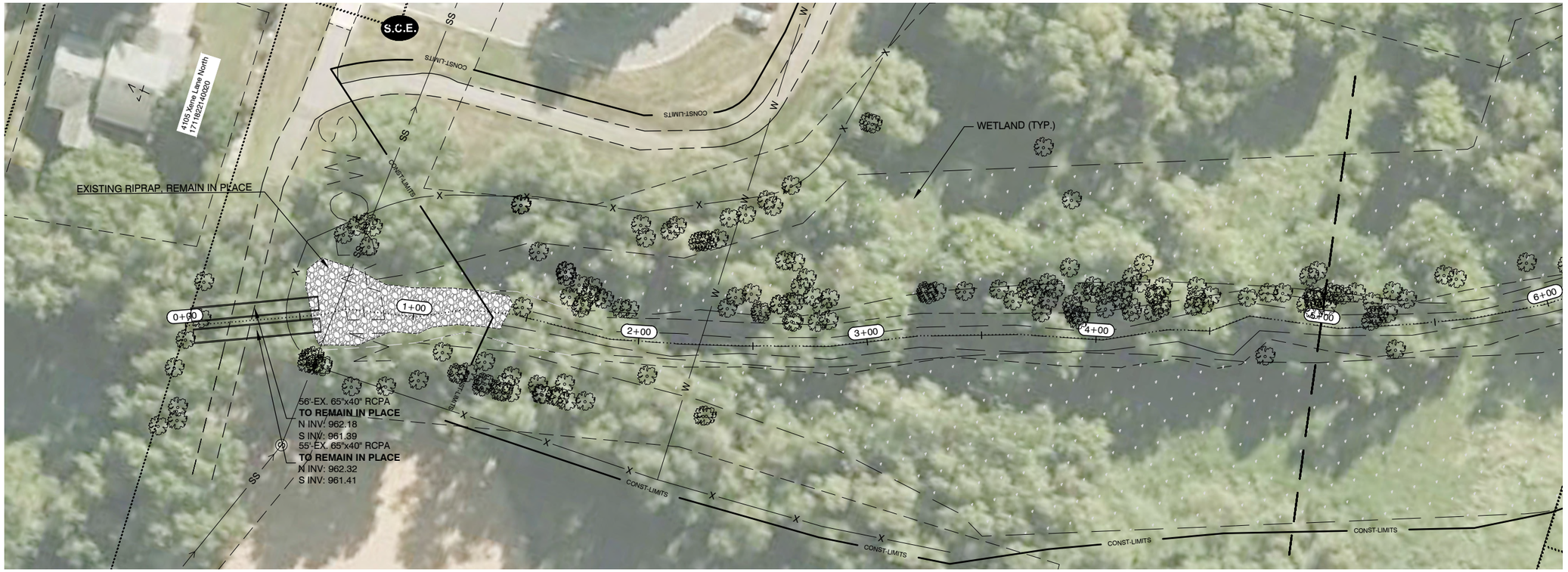
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a Vistal company

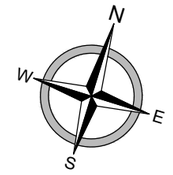
PROJECT LAYOUTS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED MEANDER LAYOUT

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

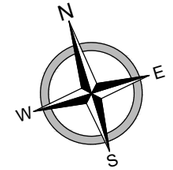
C-102

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADICI3D\Production\32231_Removals.dwg









NOTES:
1. DOUBLE ROW FLOATING SILT CURTAIN TO BE INSTALL ON THE DOWNSTREAM END OF ANY SECTION ACTIVELY BEING WORKED ON. INSTALL CURTAIN UPSTREAM OF THE NEXT DOWNSTREAM CULVERT OR BRIDGE.
2. INLET PROJECTION DEVICES TO BE INSTALLED ON THE NEXT DOWNSTREAM INLET OF ALL CONSTRUCTION ENTRANCES.

PRELIMINARY

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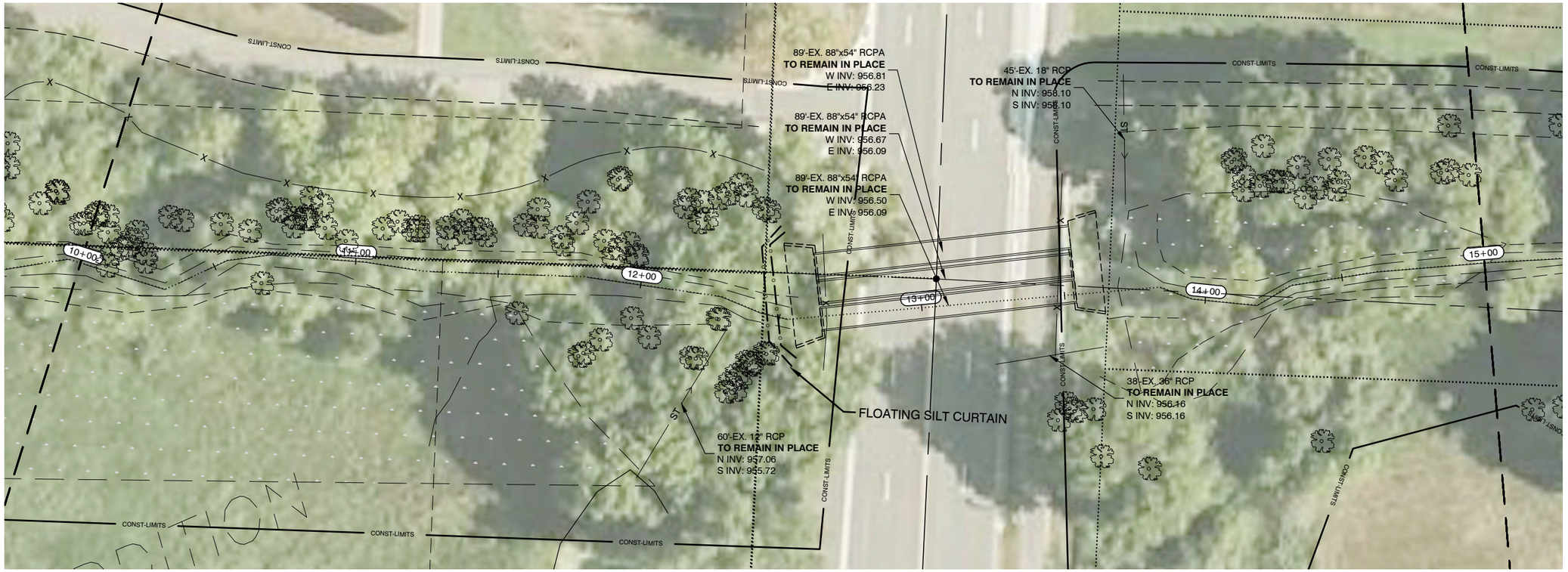
Bassett Creek Watershed Management Commission

PROJECT LAYOUTS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
EXISTING CONDITIONS AND EROSION CONTROL

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-103

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Removals.dwg





N
W E
S
0 40
Scale in Feet

PRELIMINARY

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Bassett Creek Watershed Management Commission

NOTES:
1. DOUBLE ROW FLOATING SILT CURTAIN TO BE INSTALL ON THE DOWNSTREAM END OF ANY SECTION ACTIVELY BEING WORKED ON. INSTALL CURTAIN UPSTREAM OF THE NEXT DOWNSTREAM CULVERT OR BRIDGE.
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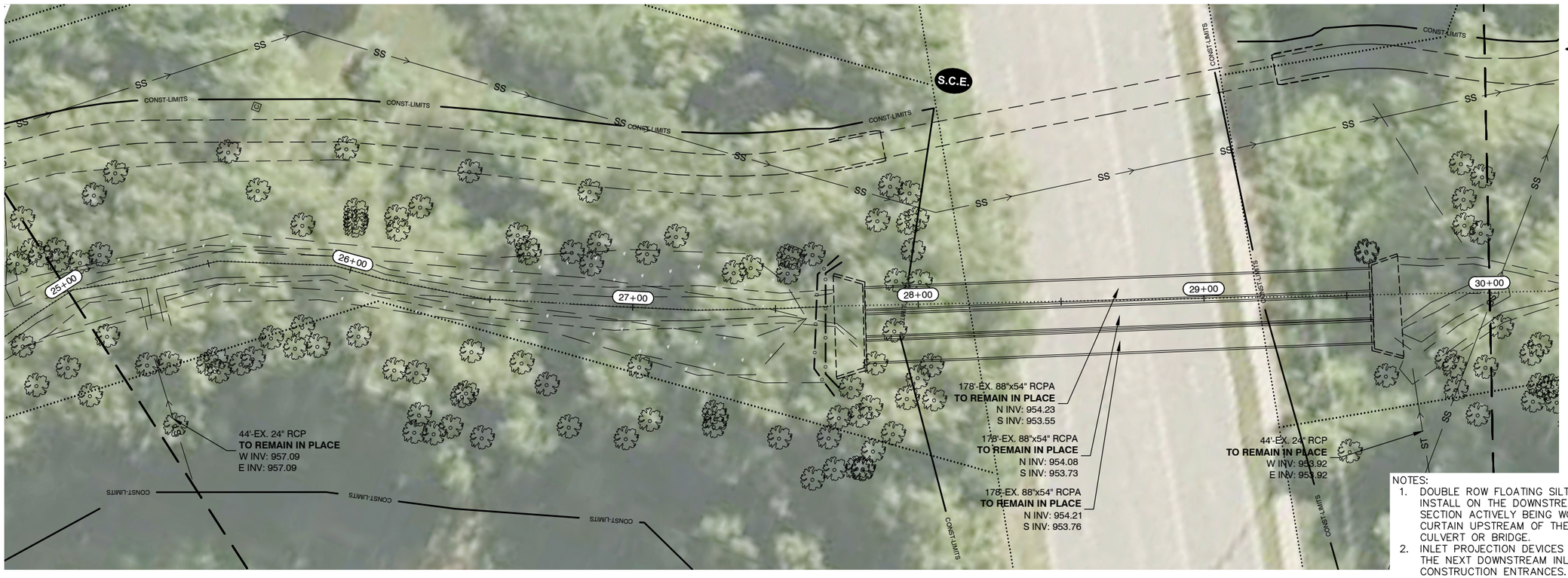
PROJECT LAYOUTS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
EXISTING CONDITIONS AND EROSION CONTROL

DATE:	11.03.26
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REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-104

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADICD\Production\32231_Removals.dwg





NOTES:
1. DOUBLE ROW FLOATING SILT CURTAIN TO BE INSTALL ON THE DOWNSTREAM END OF ANY SECTION ACTIVELY BEING WORKED ON. INSTALL CURTAIN UPSTREAM OF THE NEXT DOWNSTREAM CULVERT OR BRIDGE.
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PRELIMINARY

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City of Plymouth

Bassett Creek Watershed Management Commission

PROJECT LAYOUTS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
EXISTING CONDITIONS AND EROSION CONTROL

DATE:	11.03.26
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RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-105

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADICI3D\Production\32231_Removals.dwg





PRELIMINARY

N E S W

0 40
Scale in Feet

NOTES:
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Bassett Creek Watershed Management Commission

PROJECT LAYOUTS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
EXISTING CONDITIONS AND EROSION CONTROL

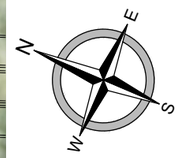
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REV DATE:	----
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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-106

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADICD\Production\32231_Removals.dwg



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City of Plymouth

Bassett Creek Watershed Management Commission

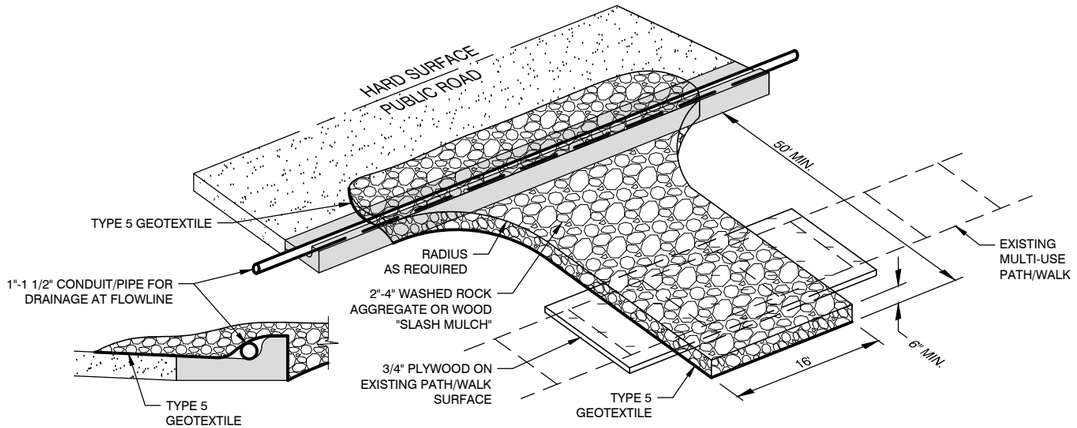
NOTES:
1. DOUBLE ROW FLOATING SILT CURTAIN TO BE INSTALL ON THE DOWNSTREAM END OF ANY SECTION ACTIVELY BEING WORKED ON. INSTALL CURTAIN UPSTREAM OF THE NEXT DOWNSTREAM CULVERT OR BRIDGE.
2. INLET PROJECTION DEVICES TO BE INSTALLED ON THE NEXT DOWNSTREAM INLET OF ALL CONSTRUCTION ENTRANCES.

PROJECT LAYOUTS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
EXISTING CONDITIONS AND EROSION CONTROL

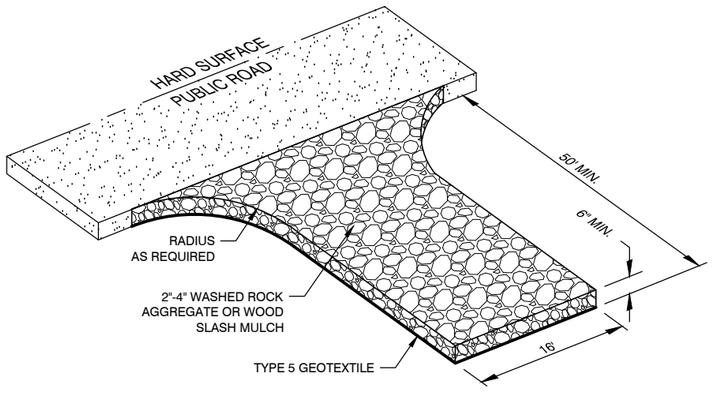
DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-107

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CAD\C3D\Production\32231_Details.dwg



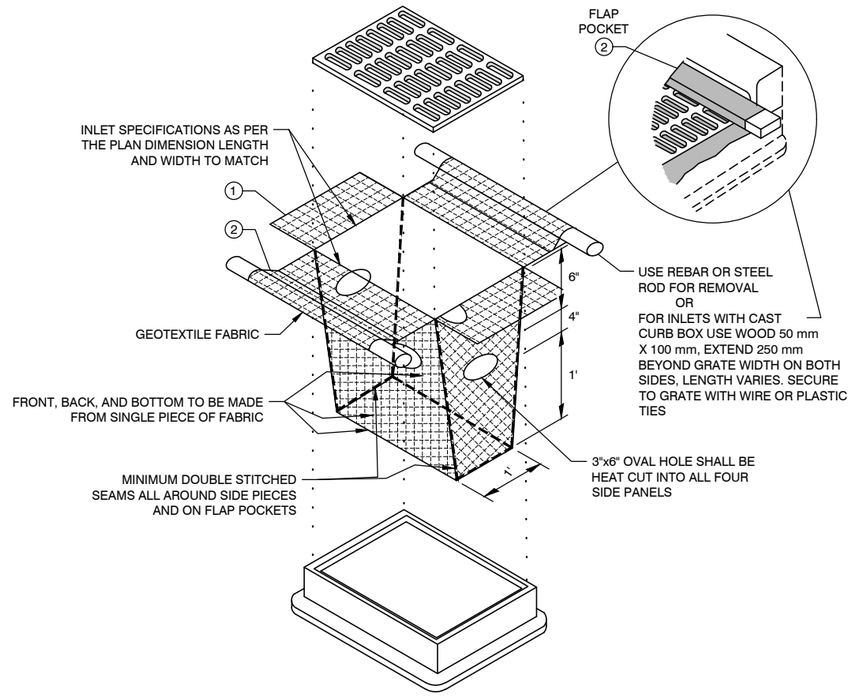
TYPE A - SIDEWALK AND CURB



TYPE B - NO SIDEWALK OR CURB

CONSTRUCTION ENTRANCE

NO SCALE *06.26.25*



NOTES:

1. INLET PROTECTION SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE OWNER.
2. (MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE MINNESOTA DEPARTMENT OF TRANSPORTATION'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.)
3. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

INSTALLATION NOTES:

1. DO NOT INSTALL INLET PROTECTION IN INLETS SHALLOWER THAN 3', MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
2. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
3. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3" WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.
   A. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 1' AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
   B. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2"x4".

INLET PROTECTION - CURB BAG

NO SCALE *06.26.25*

PRELIMINARY

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City of Plymouth

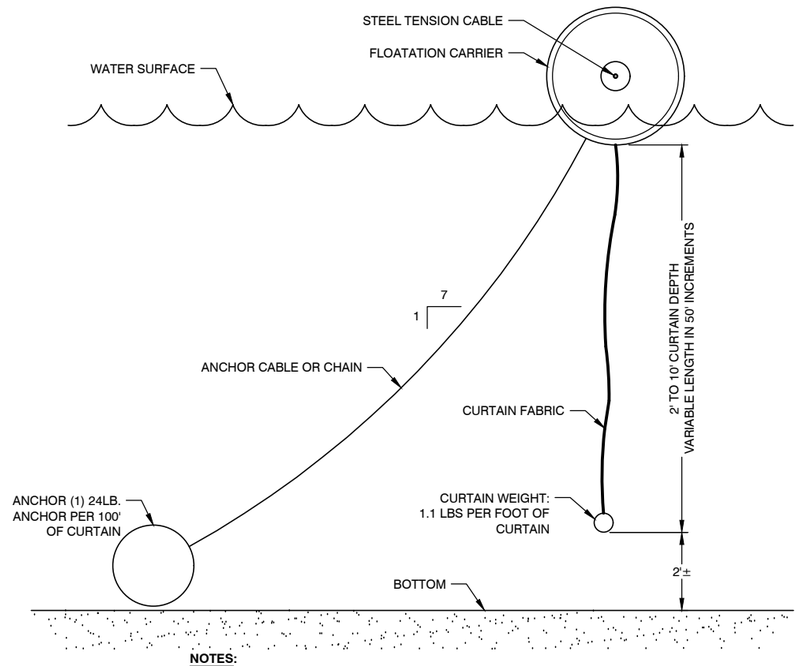
Bassett Creek Watershed Management Commission

DETAILS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
DETAILS

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-201

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CAD\C3D\Production\32231_Details.dwg



NOTES:

1. DOUBLE SILT CURTAINS SHOULD BE SPACED 10' APART
2. CONSTRUCT IN ACCORDANCE WITH (NDDOT SECTION 262) (MnDOT SECTION 2573 AND 3887.)

FLOATING SILT CURTAIN

NO SCALE *06.26.25*

PRELIMINARY

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City of Plymouth

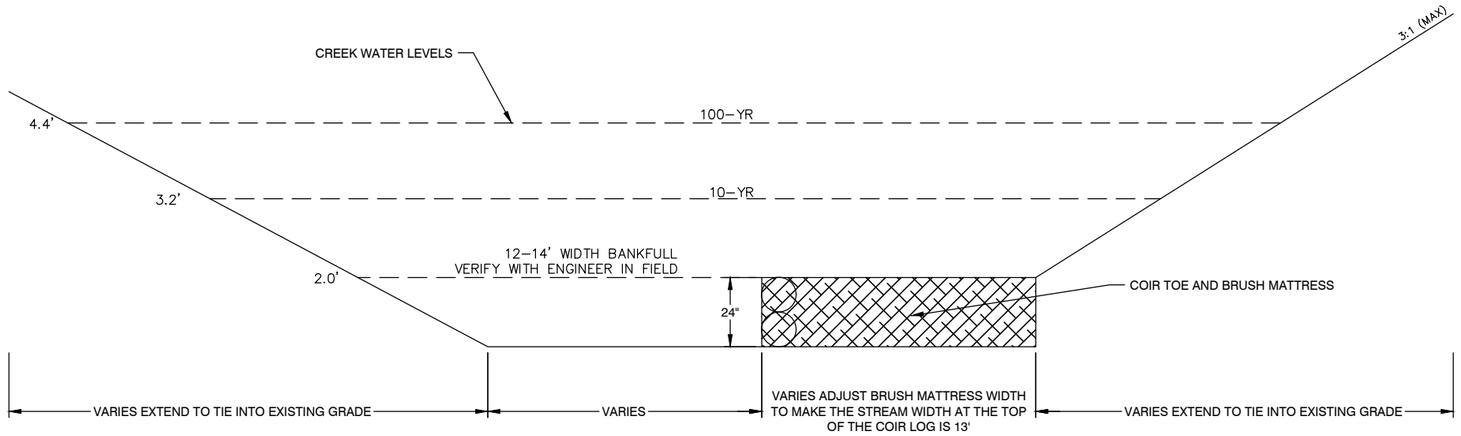
Bassett Creek Watershed Management Commission

DETAILS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
DETAILS

DATE:	11.03.26
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RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-202

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Details.dwg



COIR TOE WITH BRUSH MATTRESS TYPICAL CHANNEL SECTION

NO SCALE

PRELIMINARY

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a Vistal company

City of Plymouth

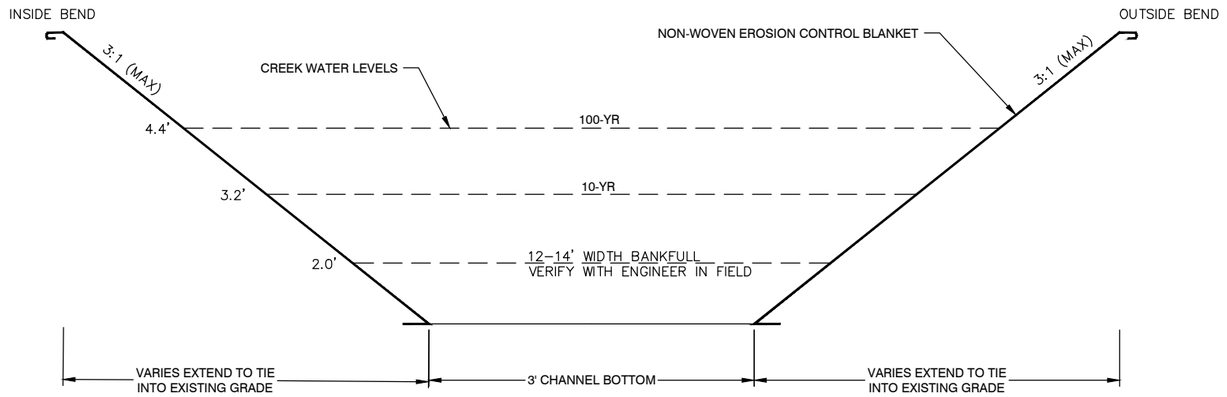
Bassett Creek Watershed Management Commission

DETAILS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
DETAILS

DATE:	11.03.26
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DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

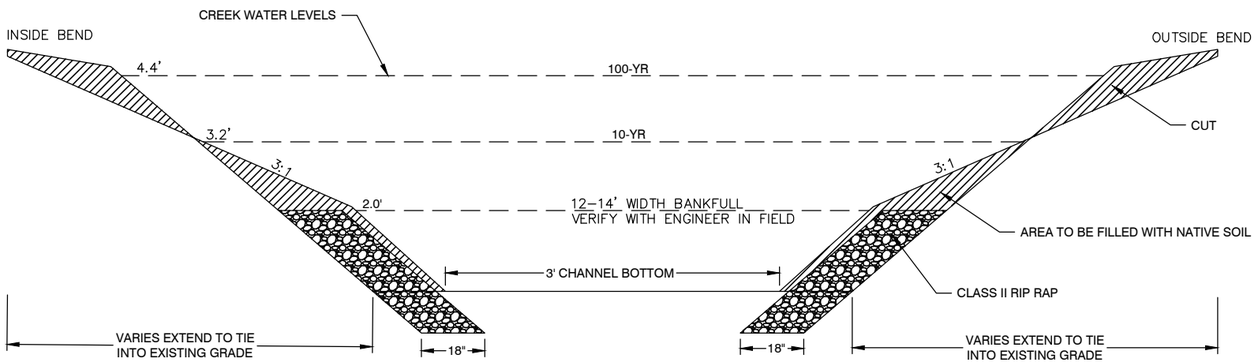
C-203

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject\2026Phase2Design\CADIC3DIProduction\32231_Details.dwg



GRADED BANKS TYPICAL CHANNEL SECTION

NO SCALE



VEGETATED RIPRAP TYPICAL CHANNEL SECTION

NO SCALE

PRELIMINARY

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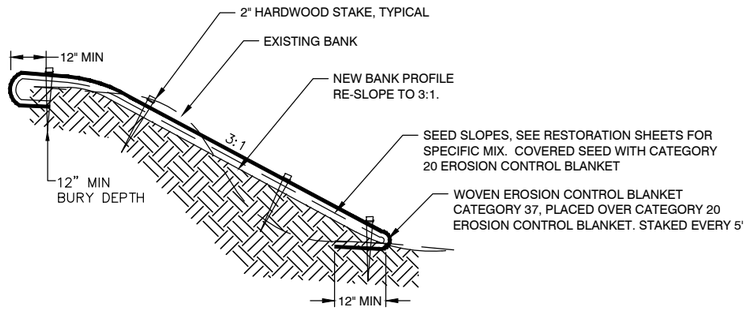
Bassett Creek Watershed Management Commission

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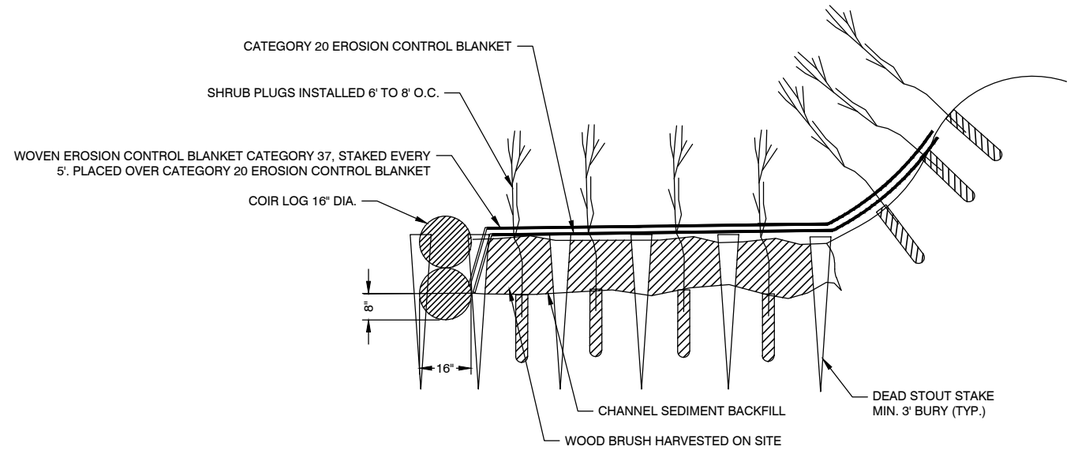
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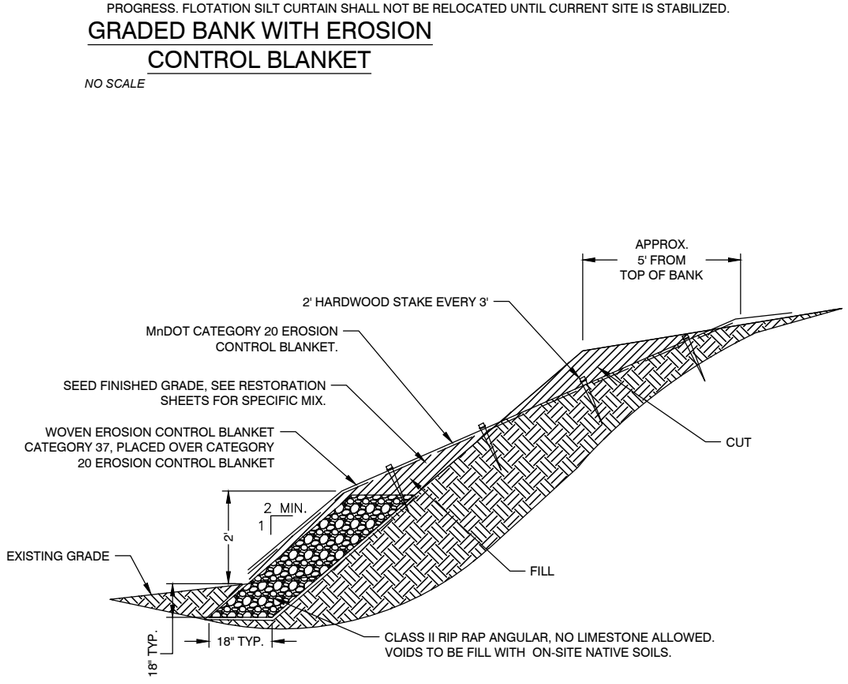


NOTE:
PROVIDE FLOTATION SILT CURTAIN TO CONTAIN SOIL MATERIAL DURING BANK RESLOPING OPERATIONS. FLOTATION SILT CURTAIN SHALL BE MAINTAINED AND RELOCATED AS OPERATIONS OF BANK RESLOPING PROGRESS. FLOTATION SILT CURTAIN SHALL NOT BE RELOCATED UNTIL CURRENT SITE IS STABILIZED.

GRADED BANK WITH EROSION CONTROL BLANKET

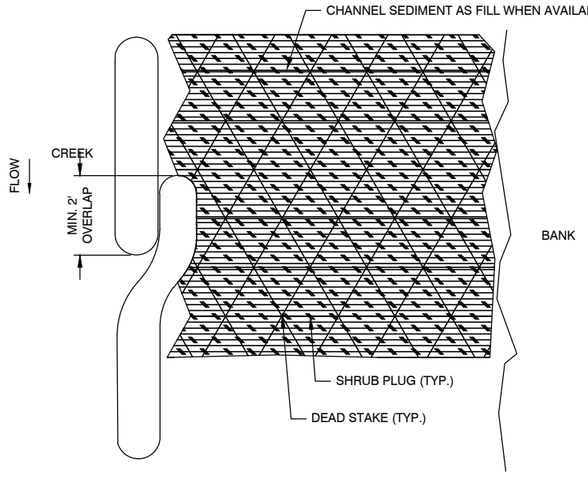
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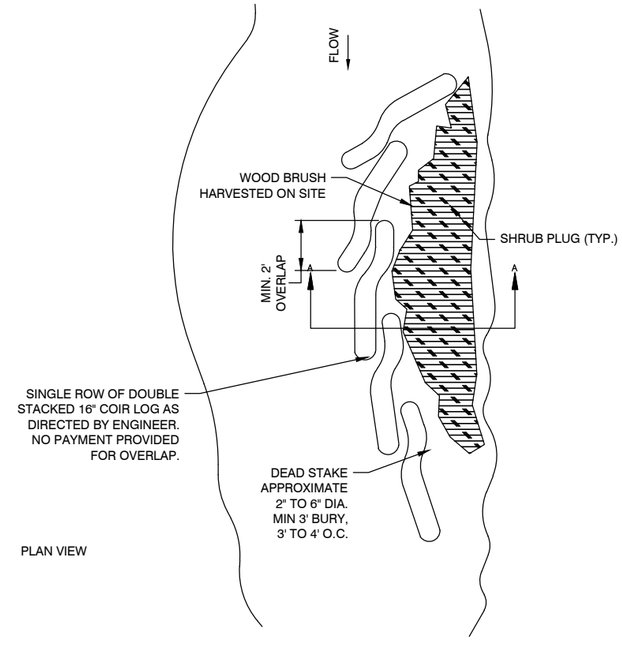




GRADED BANKS WITH VEGETATED RIPRAP

NO SCALE





COIR TOE NOTES:

1. PLACE COIR LOG
2. OVERLAY BRANCHES
3. COVER BRANCHES WITH SOIL, LOOSELY COMPACT SOIL TO ENSURE VOIDS WITHIN BRUSH ARE FILLED
4. COVER SOIL WITH EROSION CONTROL BLANKETS.
5. DEAD STAKES MAY BE HARVESTED ON SITE 3' TO 5' O.C. MIN 3' BURY, APPROXIMATE 2"-6" DIAMETER
6. SHRUB PLUGS 6' TO 8' O.C., MIN 2' BURY, MIN 12" ABOVE MATTRESS
7. WHEN STACKING COIR LOGS, IF LOGS NEED TO BE OFFSET FOR STABILITY, OFFSET THE TOP LOG TOWARDS THE BANK.

COIR TOE WITH BRUSH MATTRESS

NO SCALE

PRELIMINARY

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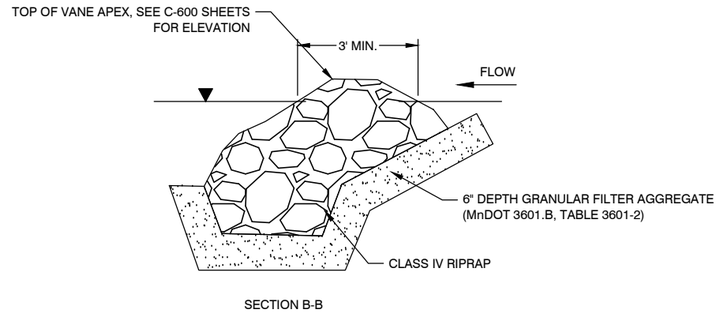
Bassett Creek Watershed Management Commission

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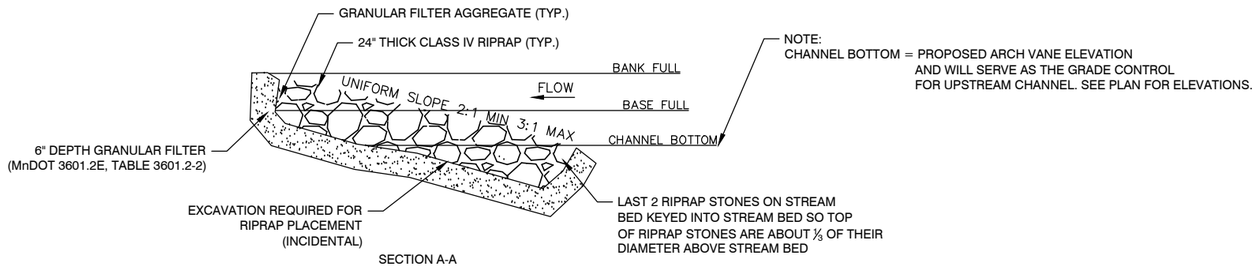
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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-205

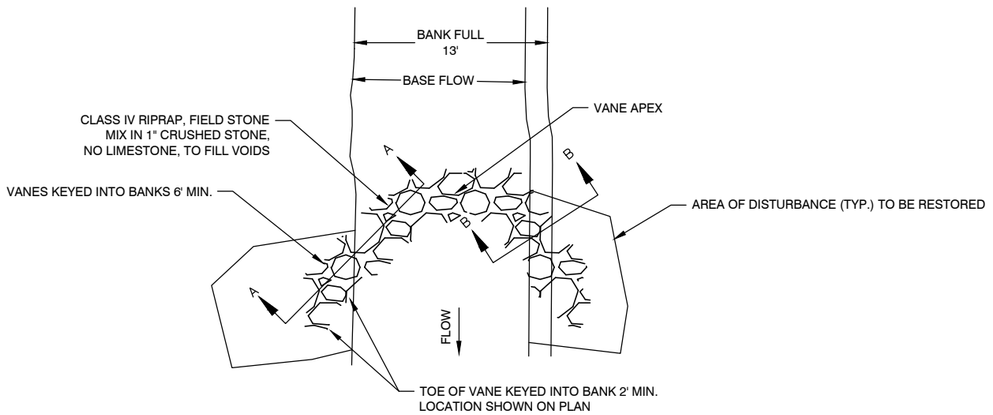
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SECTION B-B



SECTION A-A



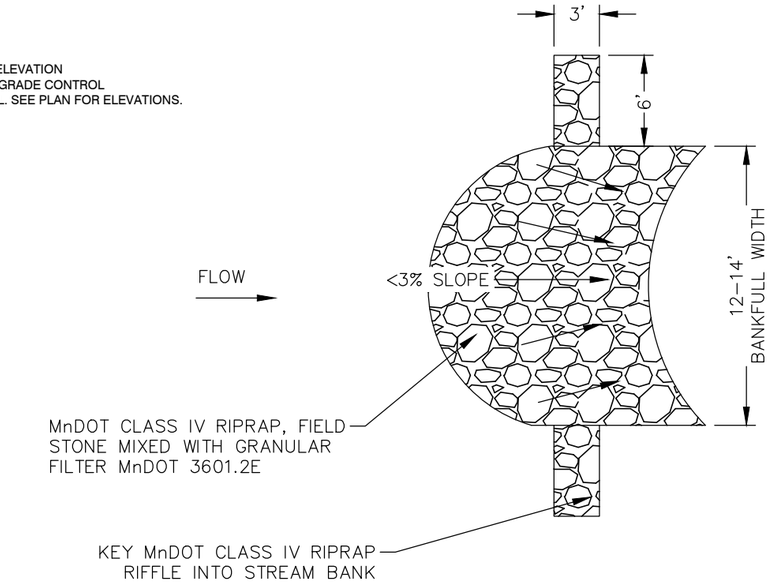
PLAN VIEW

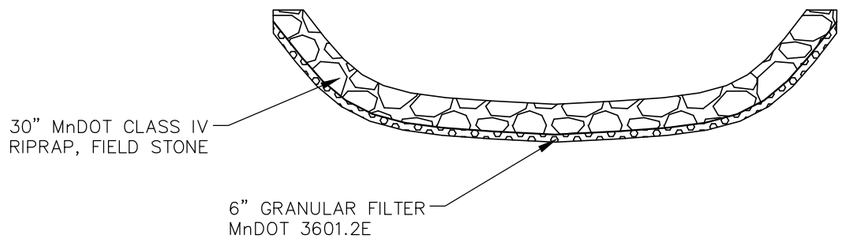
ARCH VANE NOTES:

1. CLASS IV RIPRAP SHALL BE FIELD STONE, NO LIMESTONE ALLOWED.
2. FINAL PLACEMENT OF ARCH VANE AND RIPRAP TO BE FIELD VERIFIED BY ENGINEER.
3. ALL VANES EXTEND UPSTREAM INTO FLOW OF CREEK.
4. EXCAVATED SEDIMENT TO BE PLACED UPSTREAM OF ARCH VANE TO PROMOTE VOID FILLING. DO NOT PLACE SEDIMENT ABOVE TOP OF VANE AND DO NOT EXTEND SEDIMENT PLACEMENT MORE THAN 1' UPSTREAM OF ARCH VANES.

ARCH VANE DETAIL (TYPICAL)

NO SCALE





ROCK RIFFLE

NO SCALE *06.26.25*

NOTES:

1. BOULDERS ARE NOT SHOWN.
2. ENGINEER SHALL INSPECT THE SUBGRADE FOR APPROVAL BEFORE GRANULAR FILTER INSTALLATION. CONTRACTOR IS RESPONSIBLE TO ENSURE THE ENGINEER APPROVES THE SUBGRADE BEFORE PLACING FILL.

PRELIMINARY

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DETAILS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
DETAILS

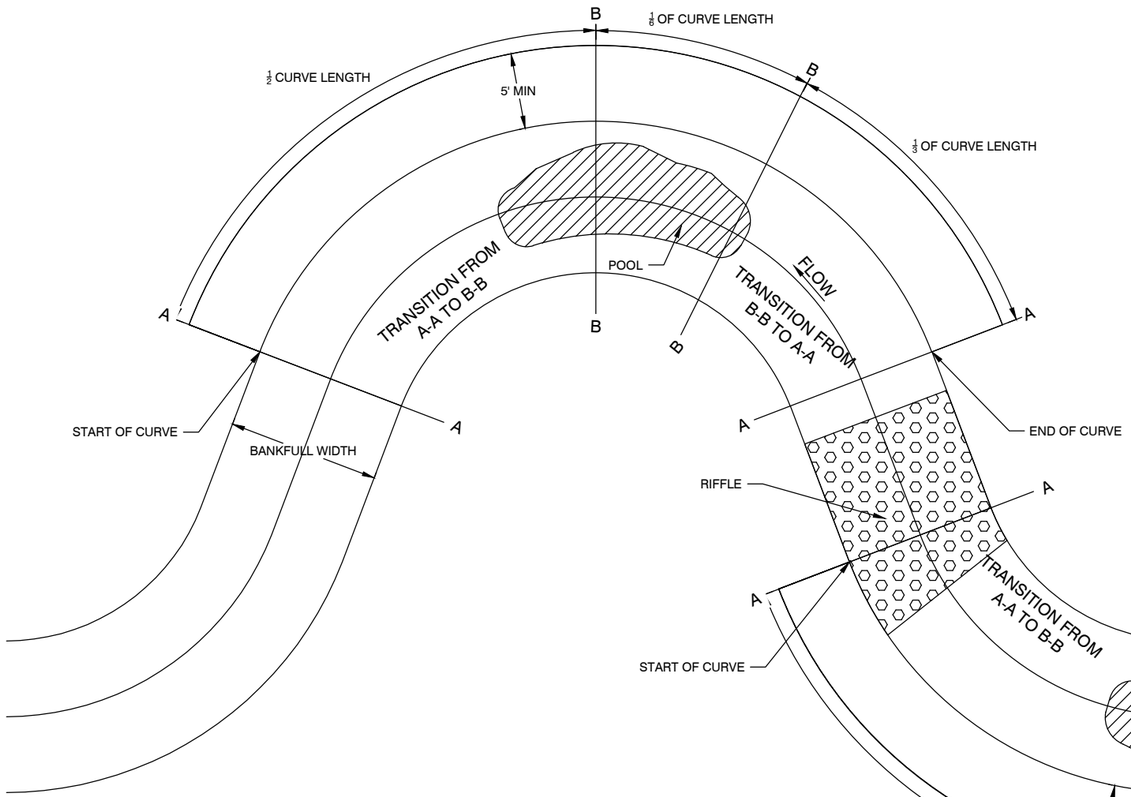
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REVIEWER:	DTE

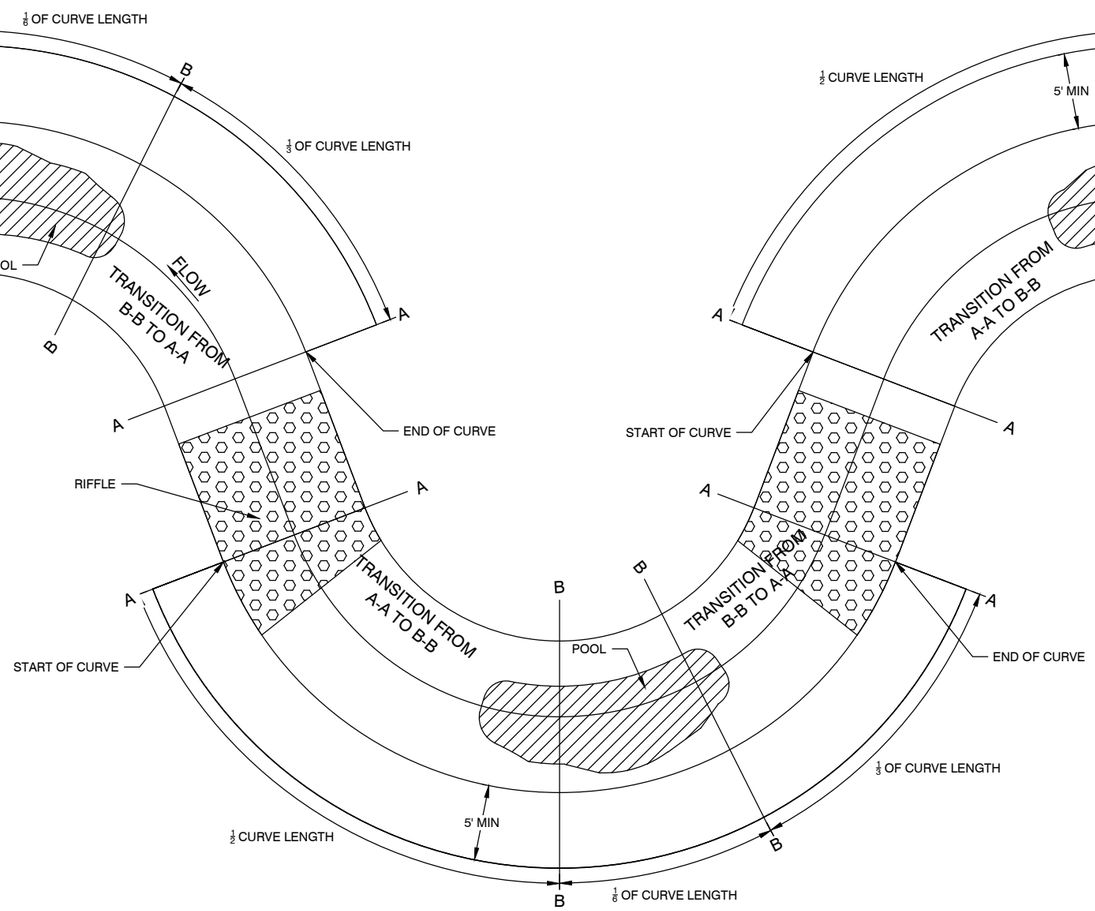
C-206

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CAD\C3D\Production\32231_Details.dwg

PRELIMINARY

TYPICAL MEANDER SECTION

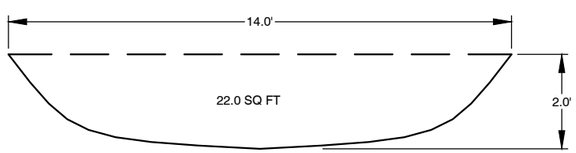


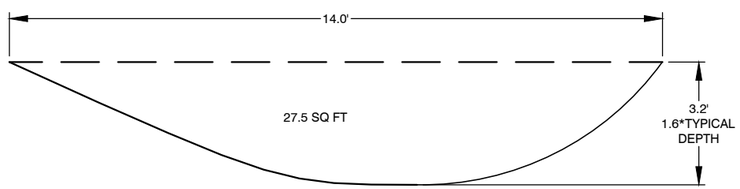


NOTES:

1. ROCK RIFFLES TO BE INSTALLED ONLY WHERE SHOWN IN THE PLANS. OTHER RIFFLES SHOWN IN TYPICAL SECTION WILL BE NATURAL.
2. ALL BANKS NOT ALONG THE OUTSIDE OF A BEND TO BE STABILIZED FOLLOWING "GRADED BANK WITH EROSION CONTROL BLANKET" DESIGN.
3. BANKS ALONG OUTSIDE BENDS TO BE STABILIZED FOLLOWING "GRADED BANKS WITH VEGETATED RIPRAP".

Channel Calculator Riffle Area: 22.0 Sq Ft
Channel Calculator Pool Area: 27.5 Sq Ft





TYPICAL POOL SECTION B-B

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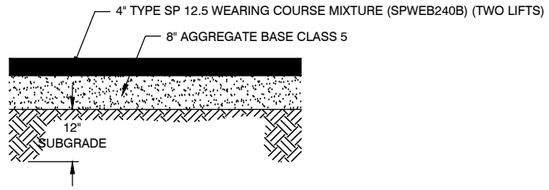
DETAILS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
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CITY OF PLYMOUTH, MINNESOTA
DETAILS

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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

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FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CAD\C3D\Production\32231_Details.dwg

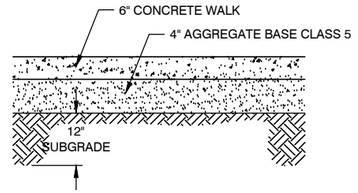
PRELIMINARY



NOTES:
1. SUBGRADE TO BE SCARIFIED TO DEPTH SHOWN AND COMPACTED TO 100% STANDARD PROCTOR DENSITY.
2. ASPHALT INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION

BITUMINOUS ROADWAY PATCH

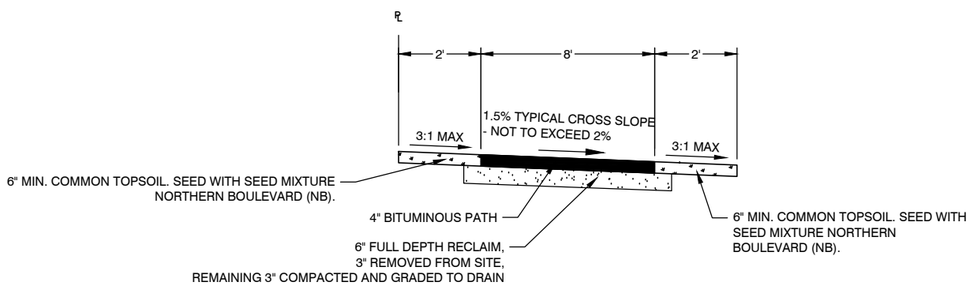
NO SCALE



NOTES:
1. SUBGRADE TO BE SCARIFIED TO A DEPTH OF 12" AND COMPACTED TO 100% STANDARD PROCTOR DENSITY.
2. CONCRETE INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. AGGREGATE BASE IS INCIDENTAL TO CONCRETE SIDEWALK.

CONCRETE SIDEWALK

NO SCALE



TYPICAL PATH SECTION

NO SCALE

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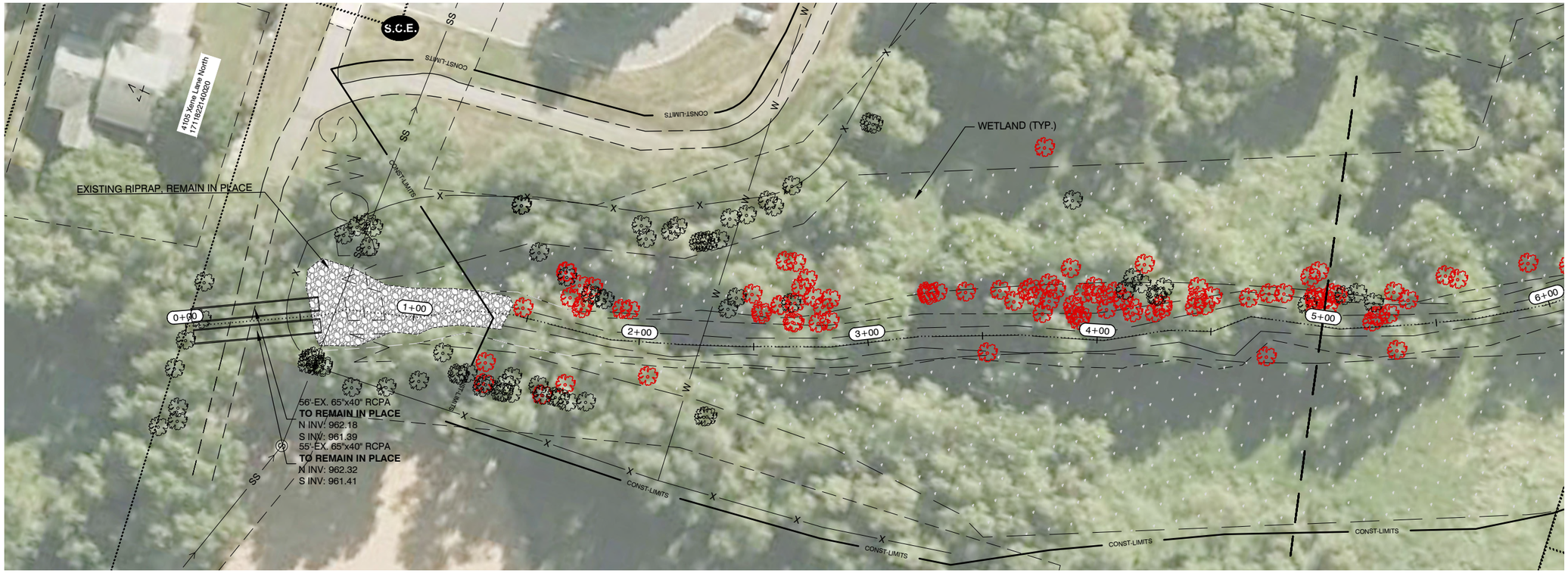
Bassett Creek Watershed Management Commission

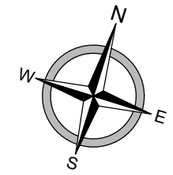
DETAILS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
DETAILS

DATE:	11.03.26
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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

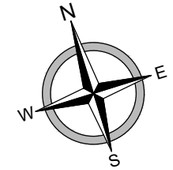
C-208

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADICI3D\Production\32231_Removals.dwg









NOTES:

1. TREES LEFT IN PLACE SHALL BE PROTECTED FROM DAMAGE THROUGHOUT DURATION OF CONSTRUCTION.
2. CLEAR AND GRUB INVASIVE SPECIES INCLUDING BUCKTHORN, REED CANARY GRASS, AND BURDOCK.
3. CONTRACTOR RESPONSIBLE TO REMOVE AND CLEAR ANY DEADFALL, DEBRIS, OR OTHER BLOCKAGES WITHIN THE CHANNEL. THIS WORK WILL BE CONSIDERED INCIDENTAL TO OTHER REMOVAL ITEMS.
4. CONTRACTOR TO CLEAR AND GRUB BRUSH WITHIN PROJECT LIMITS AS DIRECTED BY THE ENGINEER.

PRELIMINARY

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City of Plymouth

Bassett Creek Watershed Management Commission

REMOVALS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
REMOVALS

DATE:	11.03.26
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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

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FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADICI3D\Production\32231_Removals.dwg

PRELIMINARY

89'-EX. 88"x54" RCPA
TO REMAIN IN PLACE
W INV: 956.81
E INV: 956.23

89'-EX. 88"x54" RCPA
TO REMAIN IN PLACE
W INV: 956.67
E INV: 956.09

89'-EX. 88"x54" RCPA
TO REMAIN IN PLACE
W INV: 956.50
E INV: 956.09

45'-EX. 18" RCP
TO REMAIN IN PLACE
N INV: 956.10
S INV: 956.10

60'-EX. 12" RCP
TO REMAIN IN PLACE
N INV: 957.06
S INV: 955.72

38'-EX. 36" RCP
TO REMAIN IN PLACE
N INV: 956.16
S INV: 956.16

10+00 11+00 12+00 13+00 14+00 15+00

CONST-LIMITS

N W E S

0 40
Scale in Feet

48'-EX. 36" CSP
REMOVE
N INV: 956.33
S INV: 956.29

4015 Terraceview Lane North
1611822230081

4005 Terraceview Lane North
1611822230078

55'-EX. 24" RCPA
TO REMAIN IN PLACE
N INV: 956.75
S INV: 956.27

47'-EX. 24" RCP
TO REMAIN IN PLACE
N INV: 957.18
S INV: 957.18

15+00 16+00 17+00 18+00 19+00 20+00

SS

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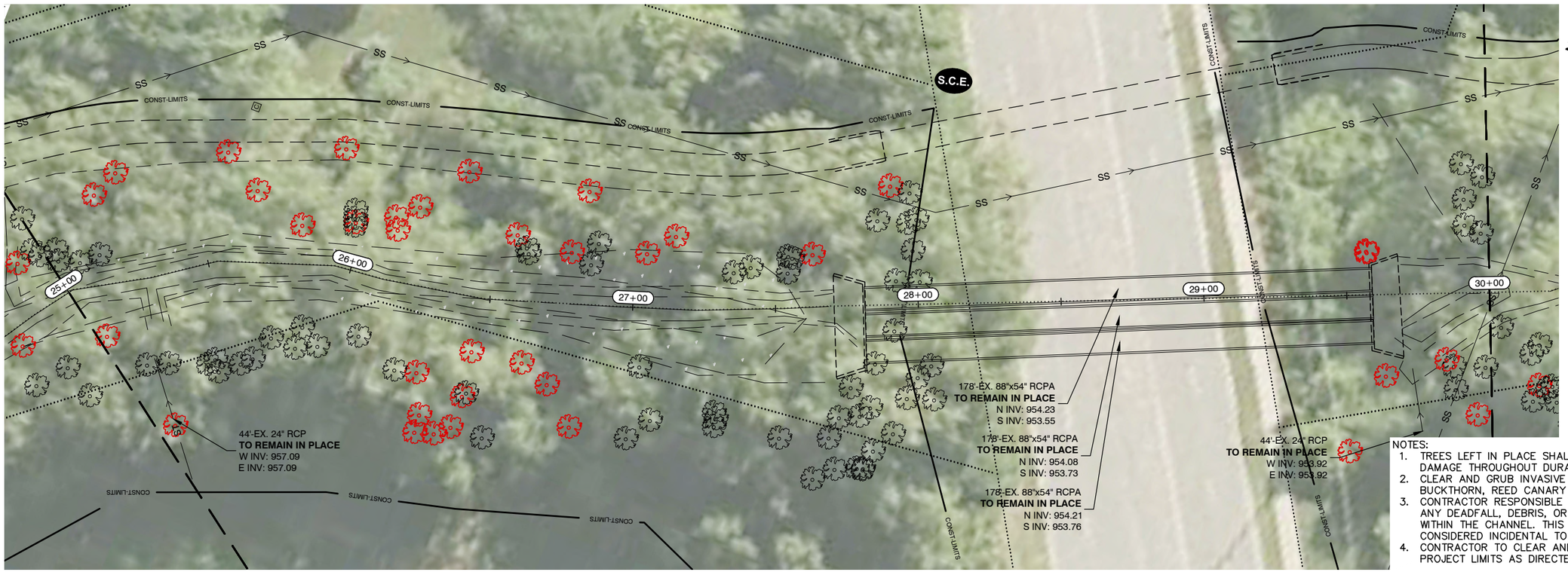
REMOVALS
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CITY OF PLYMOUTH, MINNESOTA
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REVIEWER:	DTE

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FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADICD\Production\32231_Removals.dwg





PRELIMINARY

N E S W

0 40
Scale in Feet

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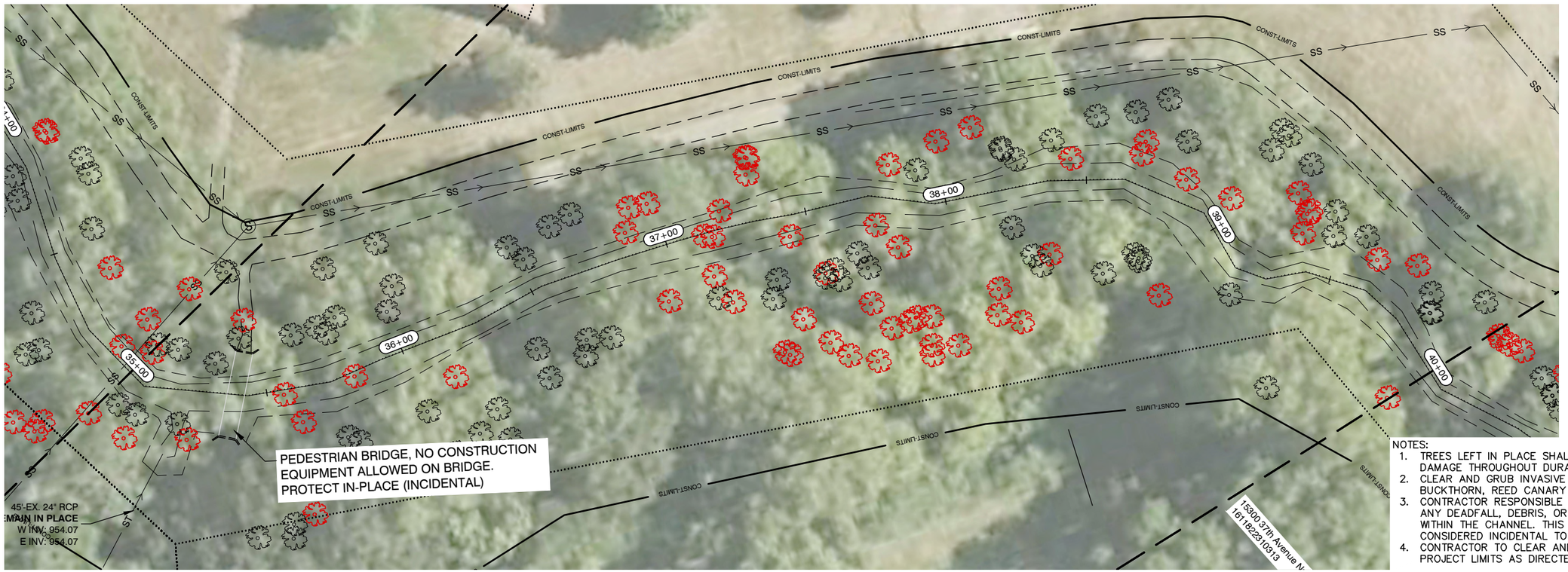
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FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Removals.dwg





PRELIMINARY

N E S W

0 40
Scale in Feet

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REVIEWER:	DTE

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FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Removals.dwg



PRELIMINARY

N E S W

0 40
Scale in Feet

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Bassett Creek Watershed Management Commission

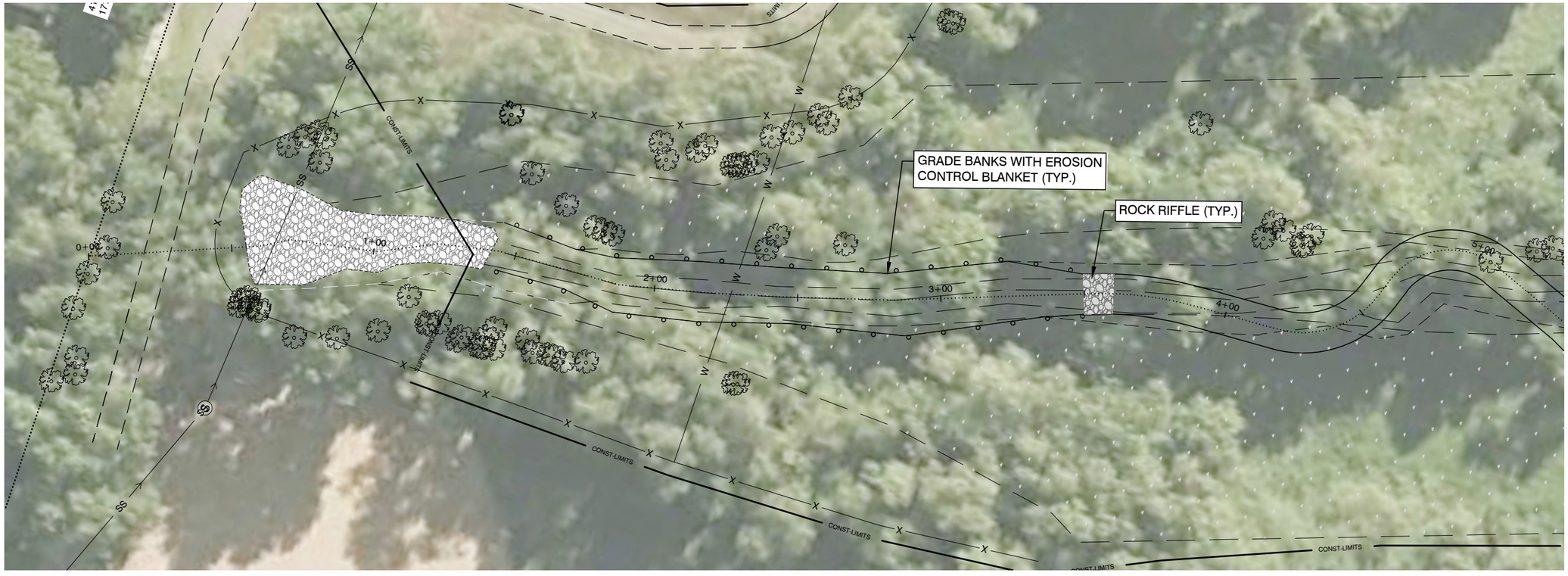
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REMOVALS
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REMOVALS

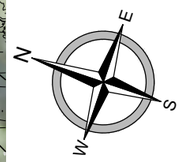
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REVIEWER:	DTE

C-305

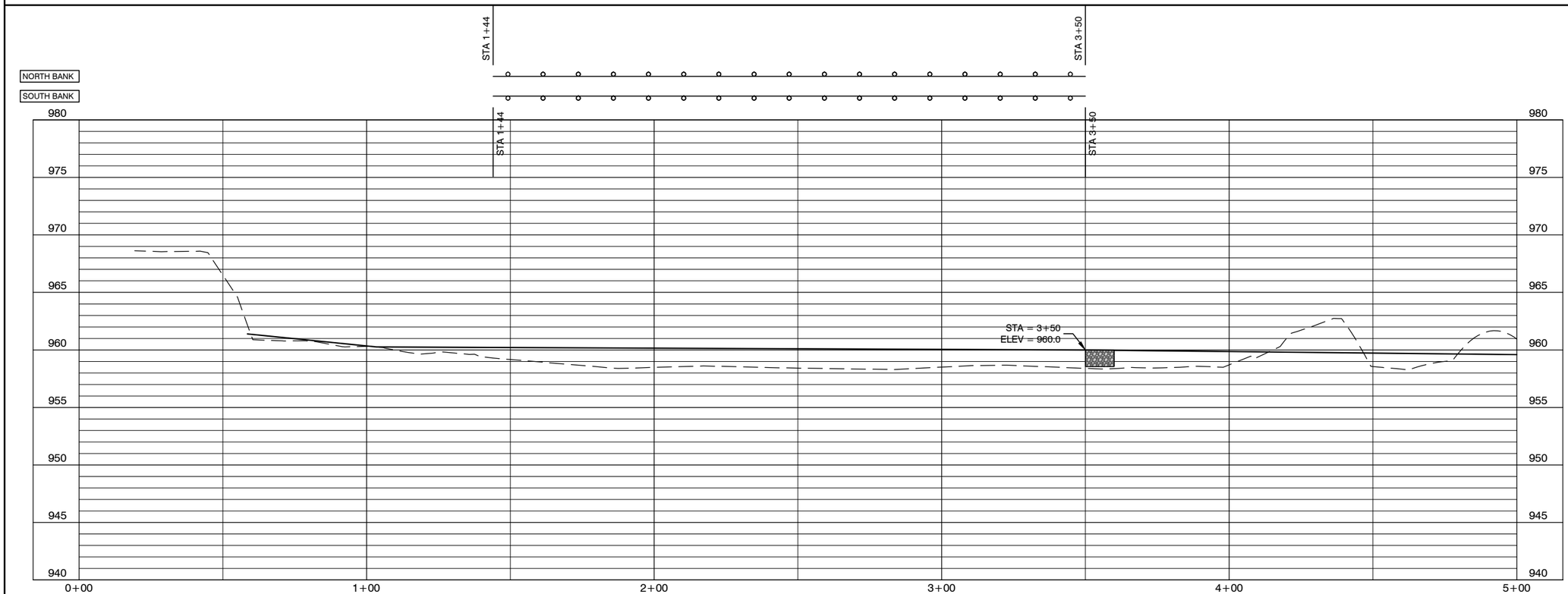
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PRELIMINARY



moore engineering, inc.
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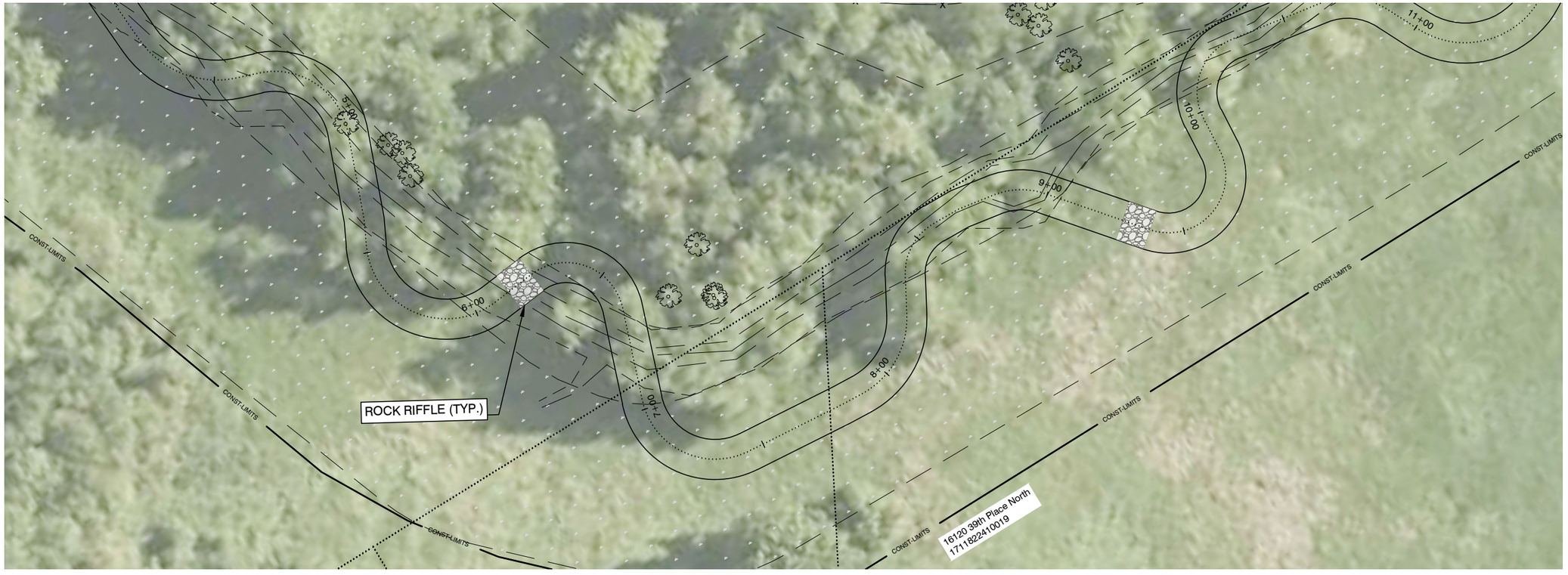


UNDERGROUND
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED CONDITIONS

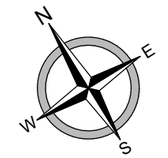
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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-401

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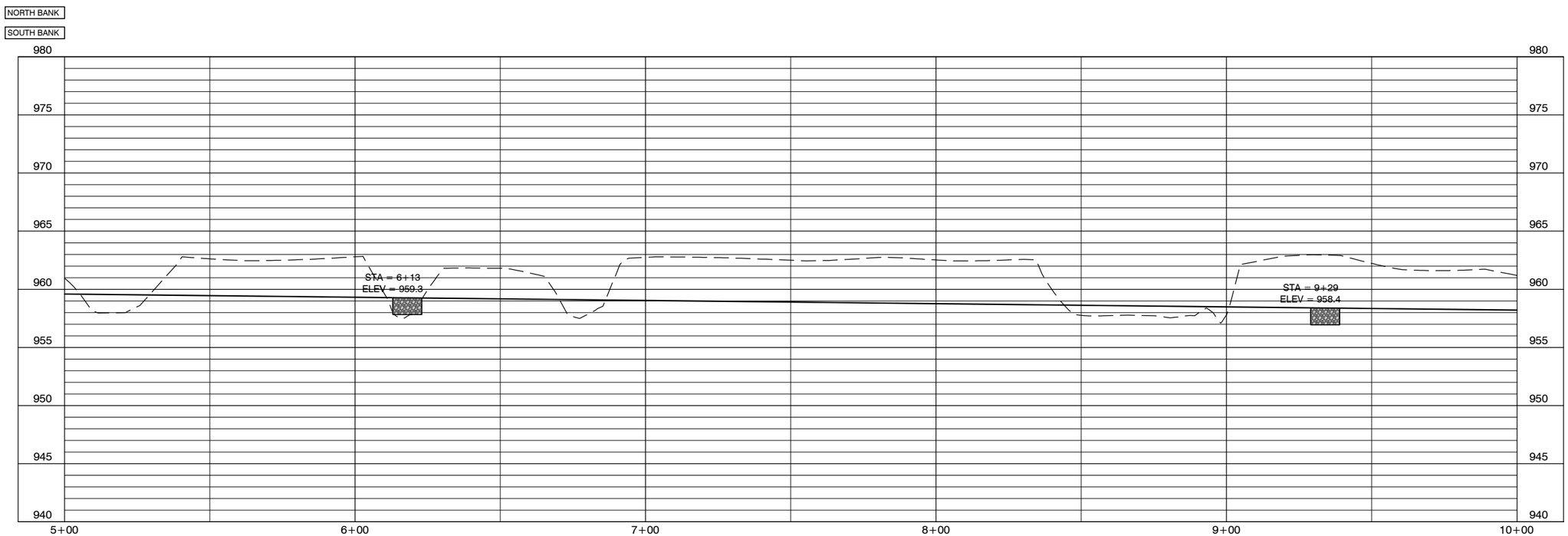


PRELIMINARY



0 40
Scale in Feet

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a Vistal company

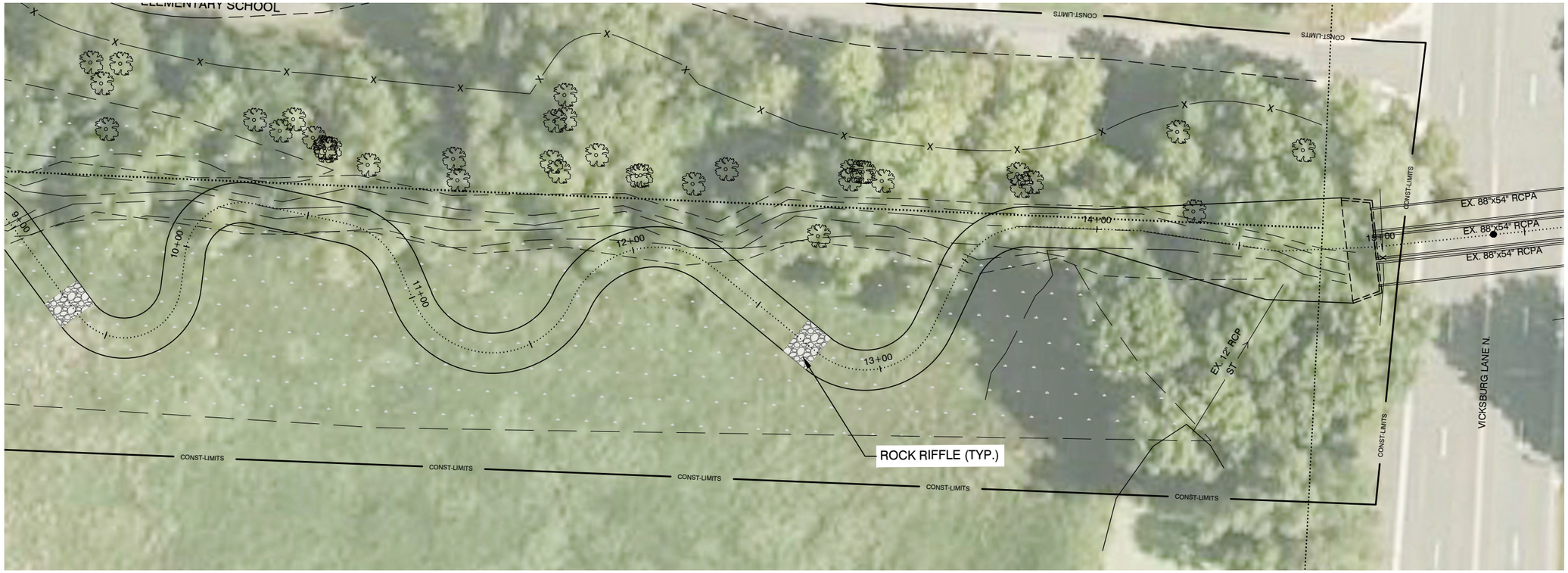


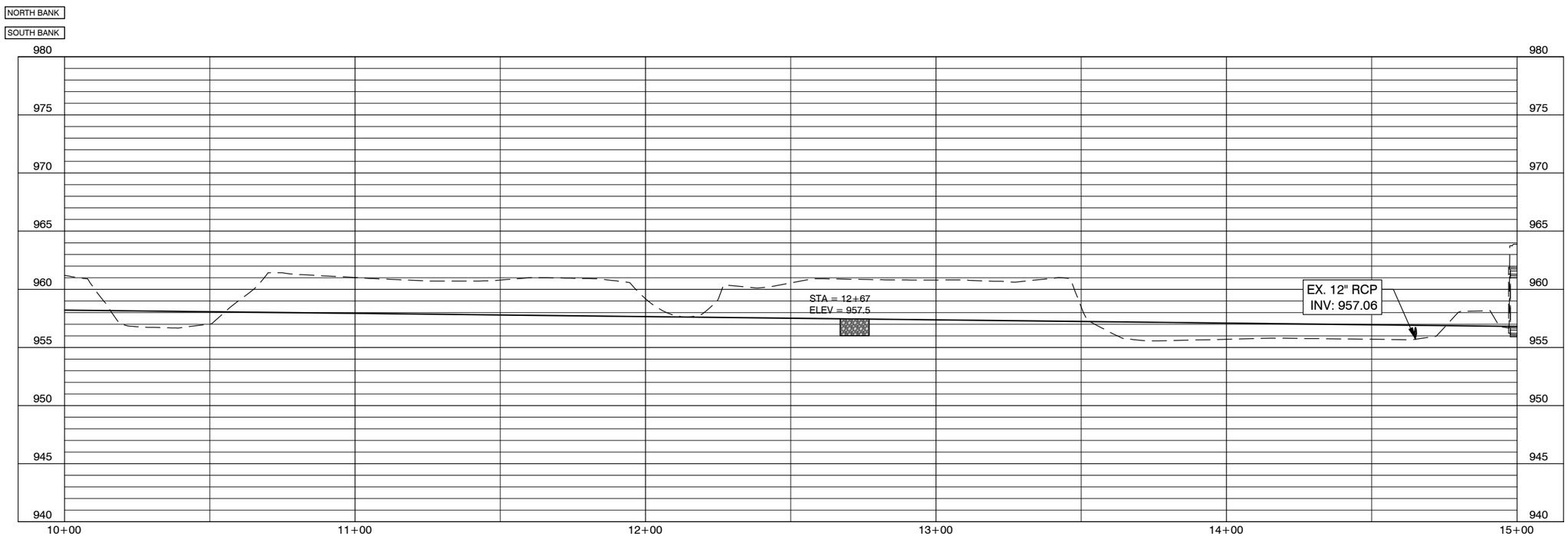
UNDERGROUND
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED CONDITIONS

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-402

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADICAD\Production\32231_Underground.dwg





PRELIMINARY



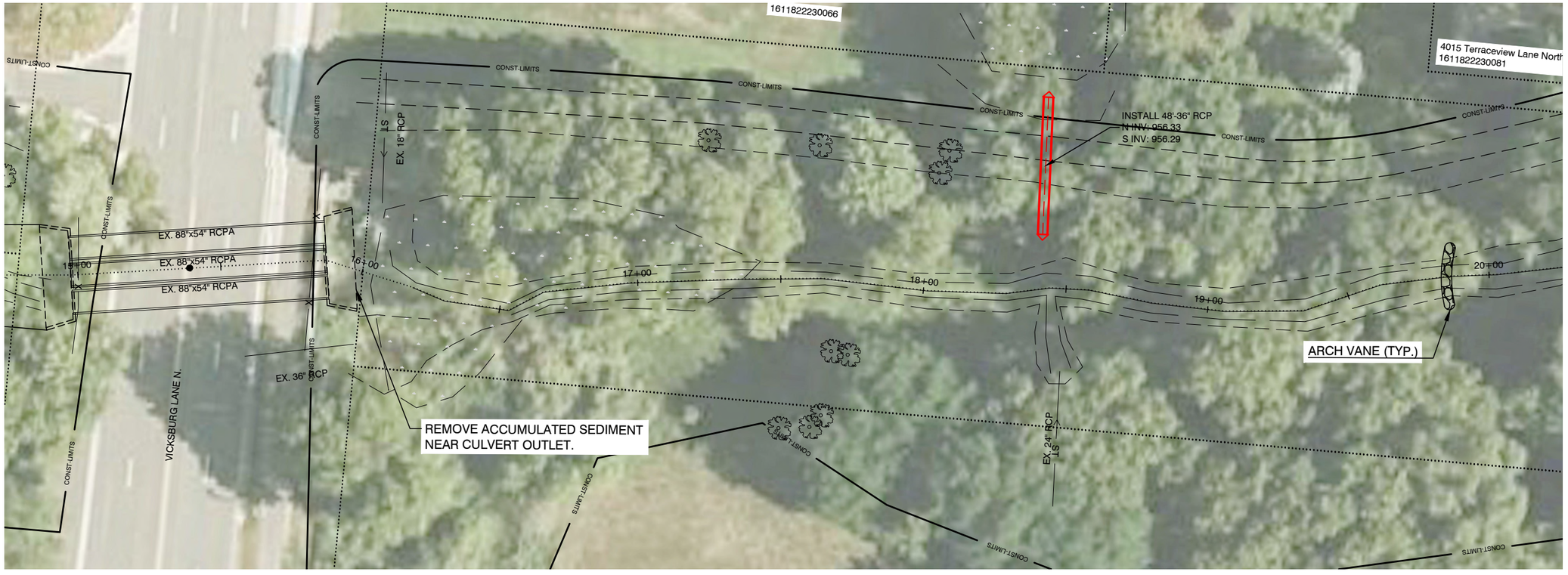
moore engineering, inc.
a Vistal company

UNDERGROUND
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED CONDITIONS

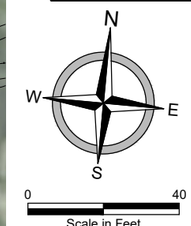
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MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-403

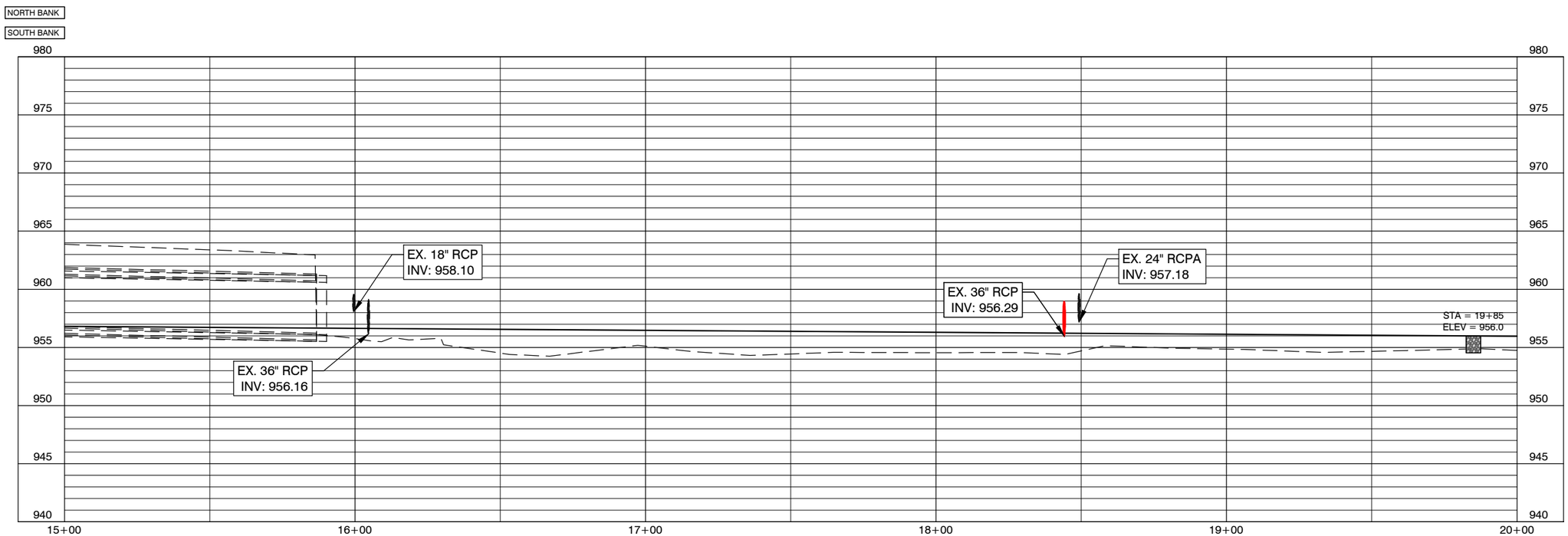
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PRELIMINARY



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engineering, inc.
a Vistal company

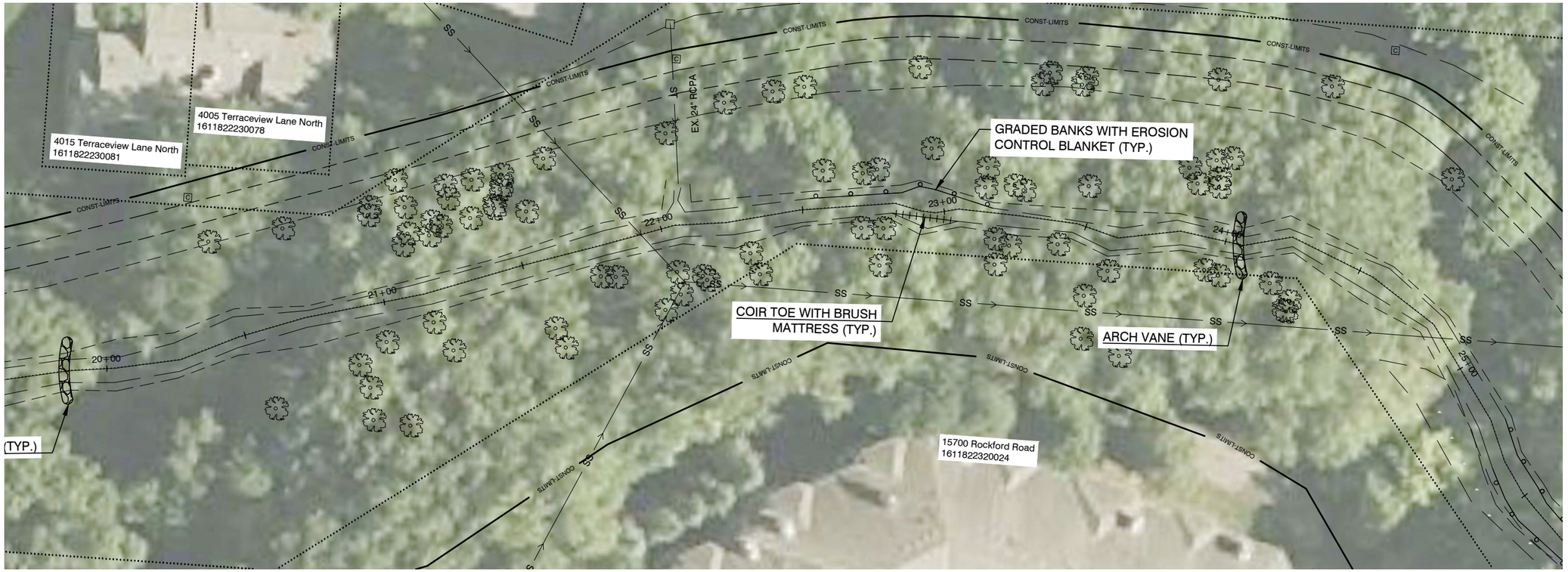


UNDERGROUND
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED CONDITIONS

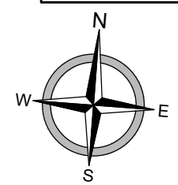
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REV NUM:	----
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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-404

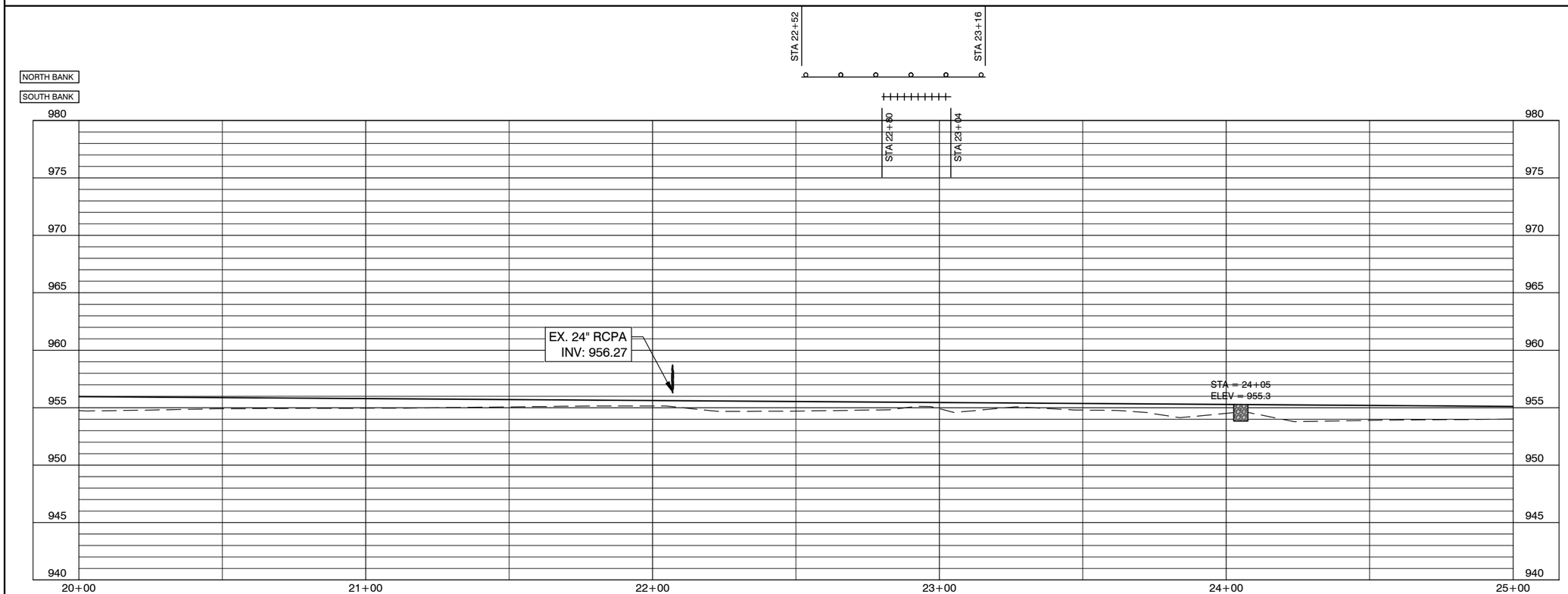
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PRELIMINARY



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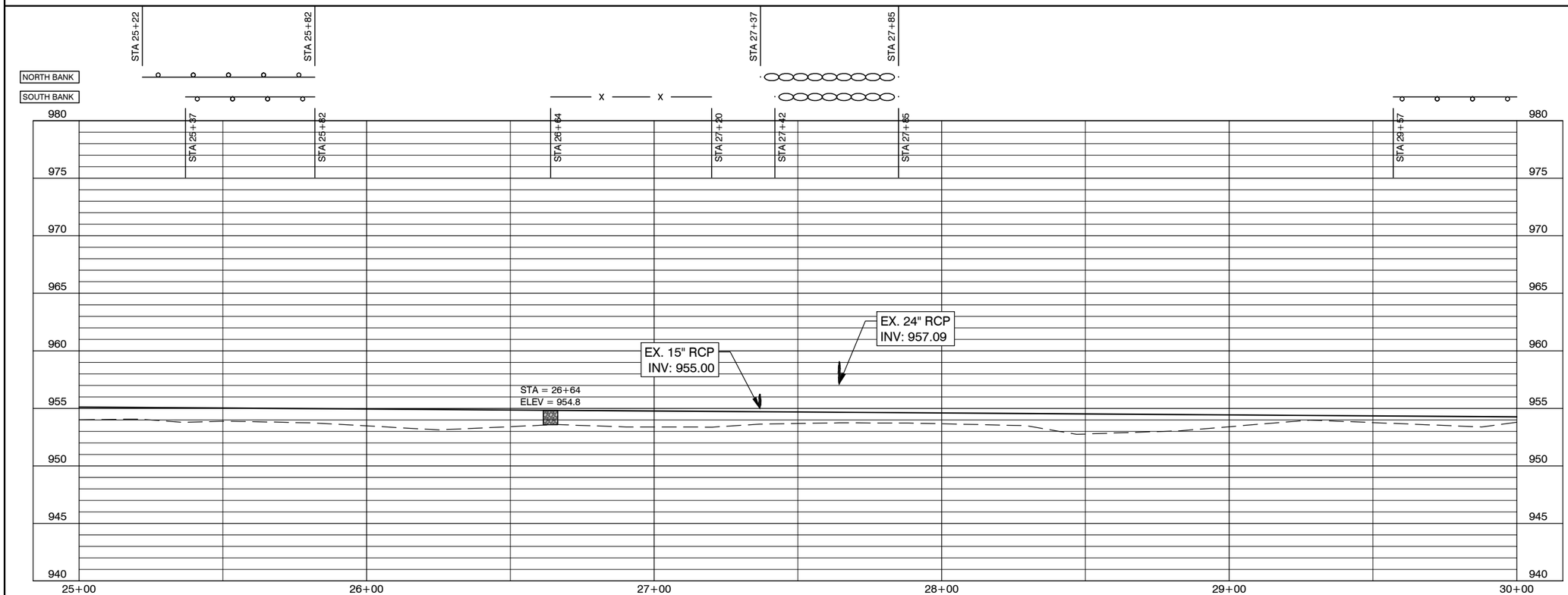
UNDERGROUND
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED CONDITIONS

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-405

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CAD\C3D\Production\32231_Underground.dwg





PRELIMINARY

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Scale in Feet

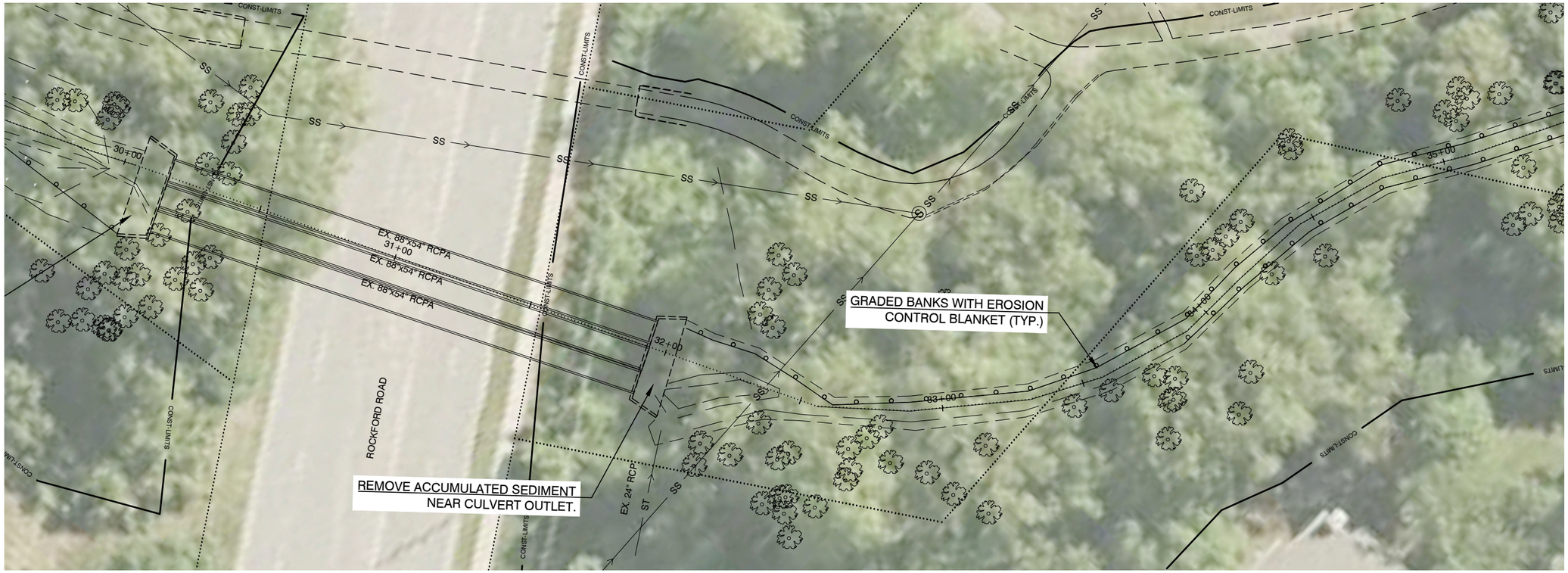
moore engineering, inc.
a Vistal company

UNDERGROUND
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED CONDITIONS

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-406

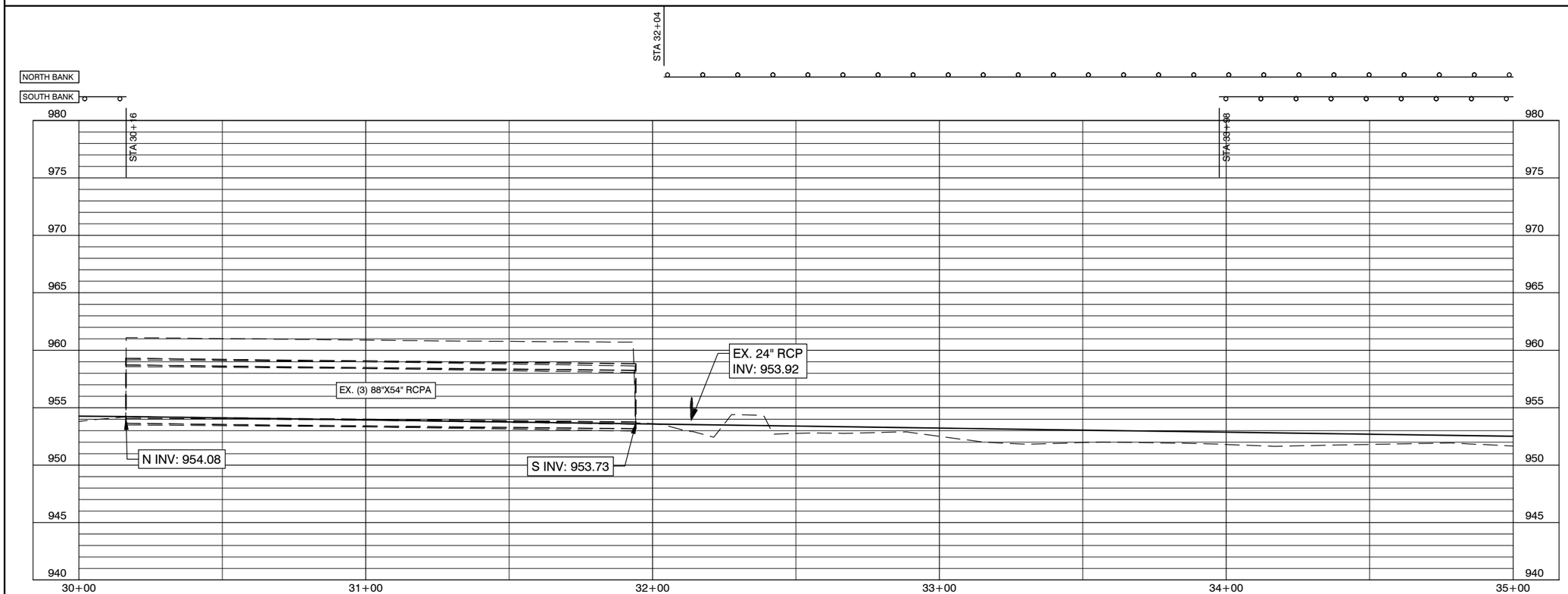
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PRELIMINARY

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Scale in Feet



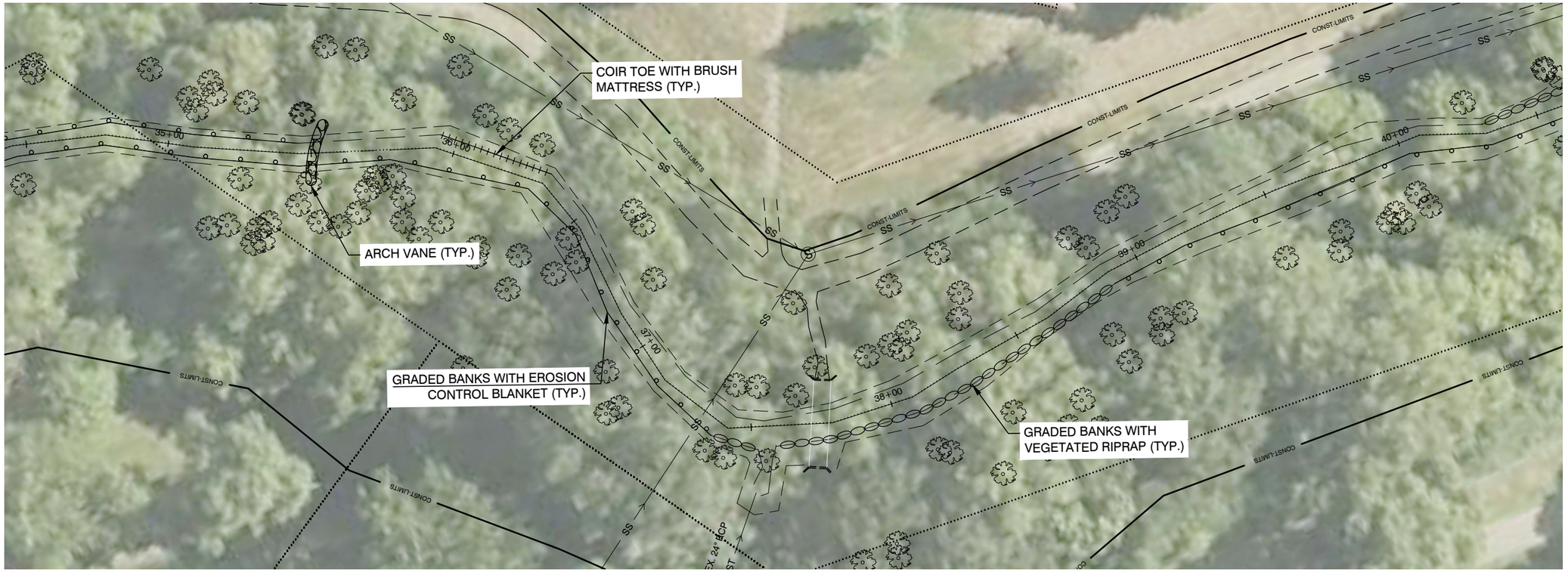
moore engineering, inc.
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UNDERGROUND
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED CONDITIONS

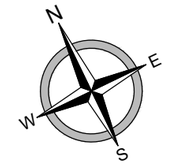
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MANAGER:	JCM
DESIGNER:	QDS
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REVIEWER:	DTE

C-407

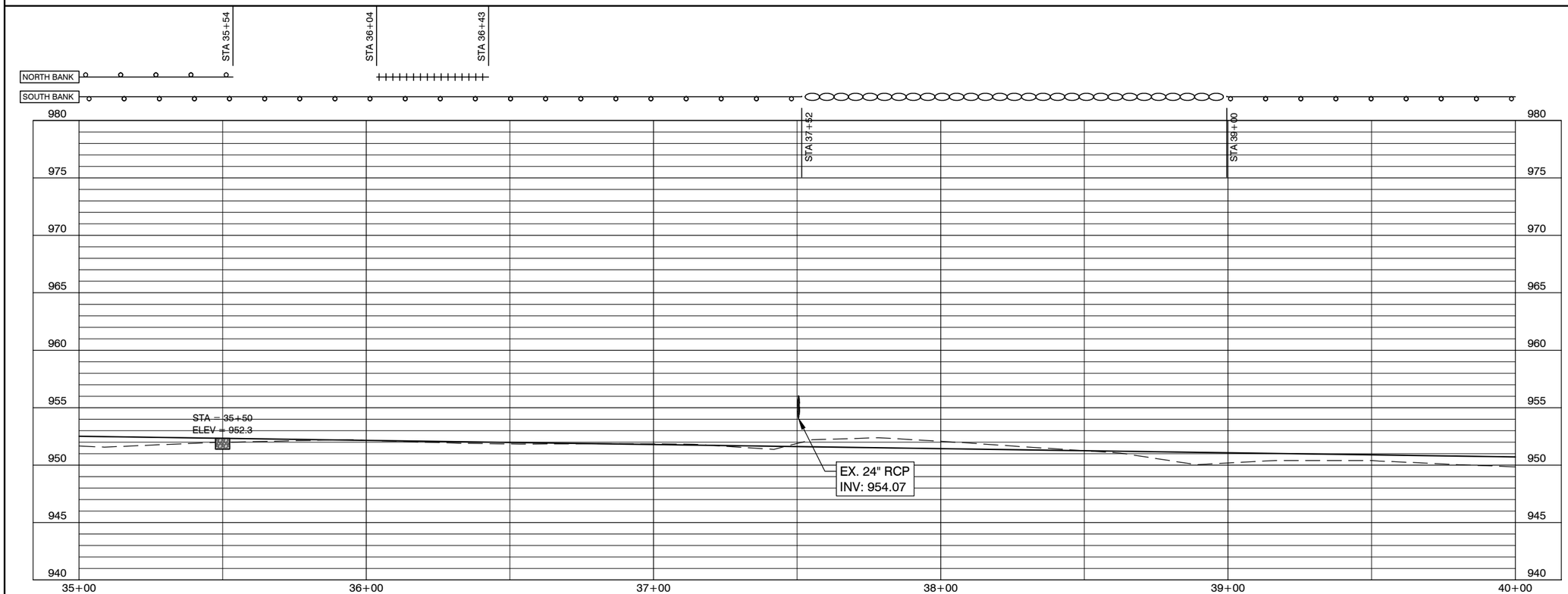
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PRELIMINARY



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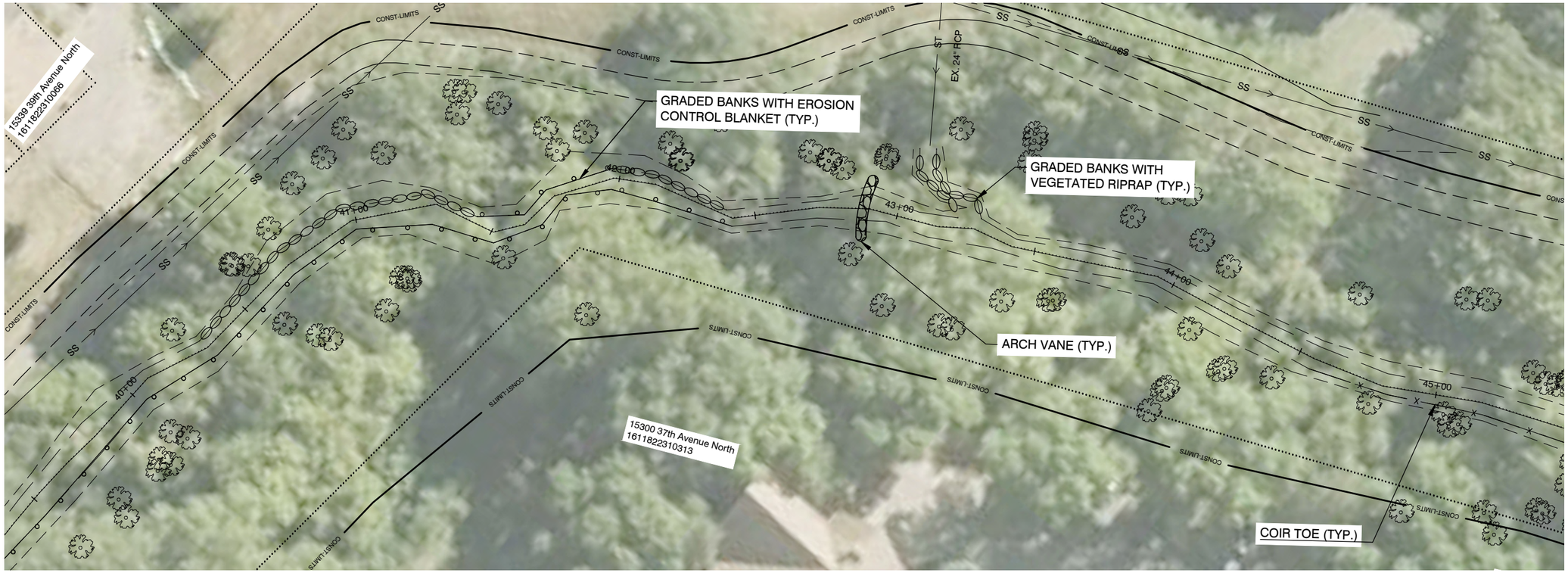


UNDERGROUND
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED CONDITIONS

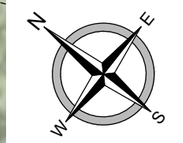
DATE:	11.03.26
REV DATE:	----
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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-408

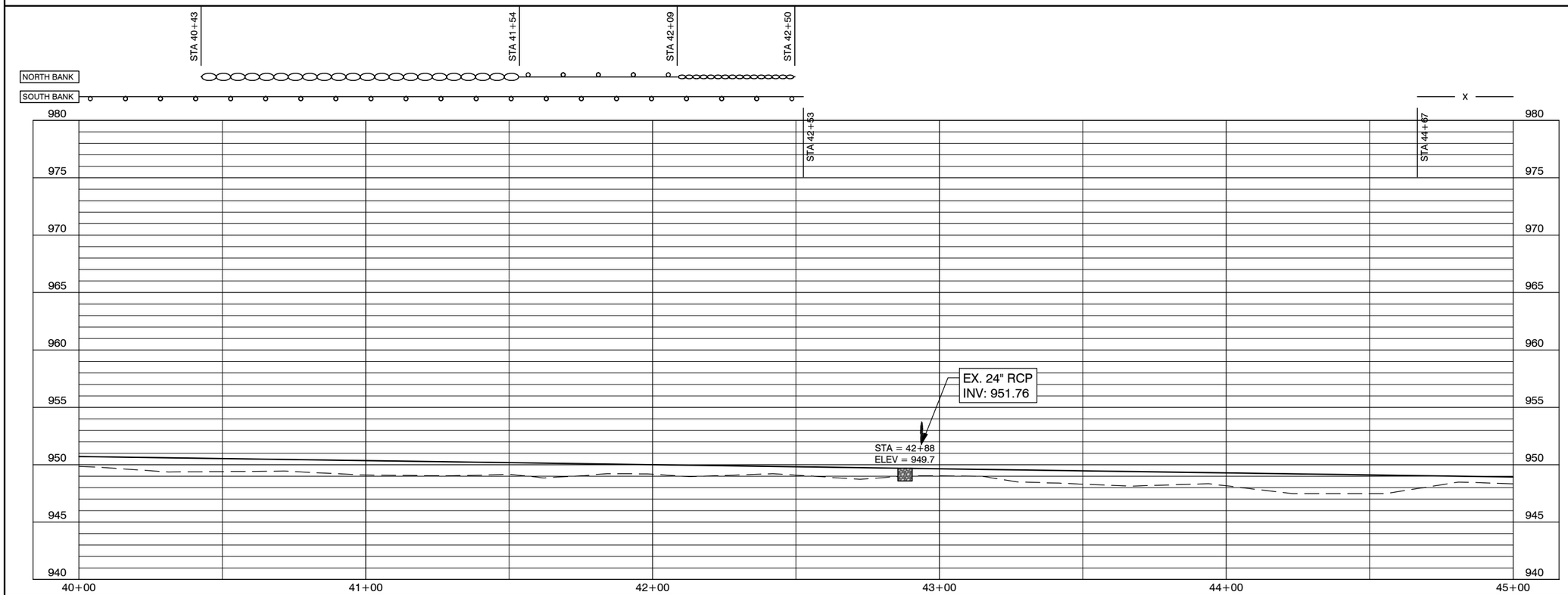
FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CAD\C3D\Production\32231_Underground.dwg



PRELIMINARY



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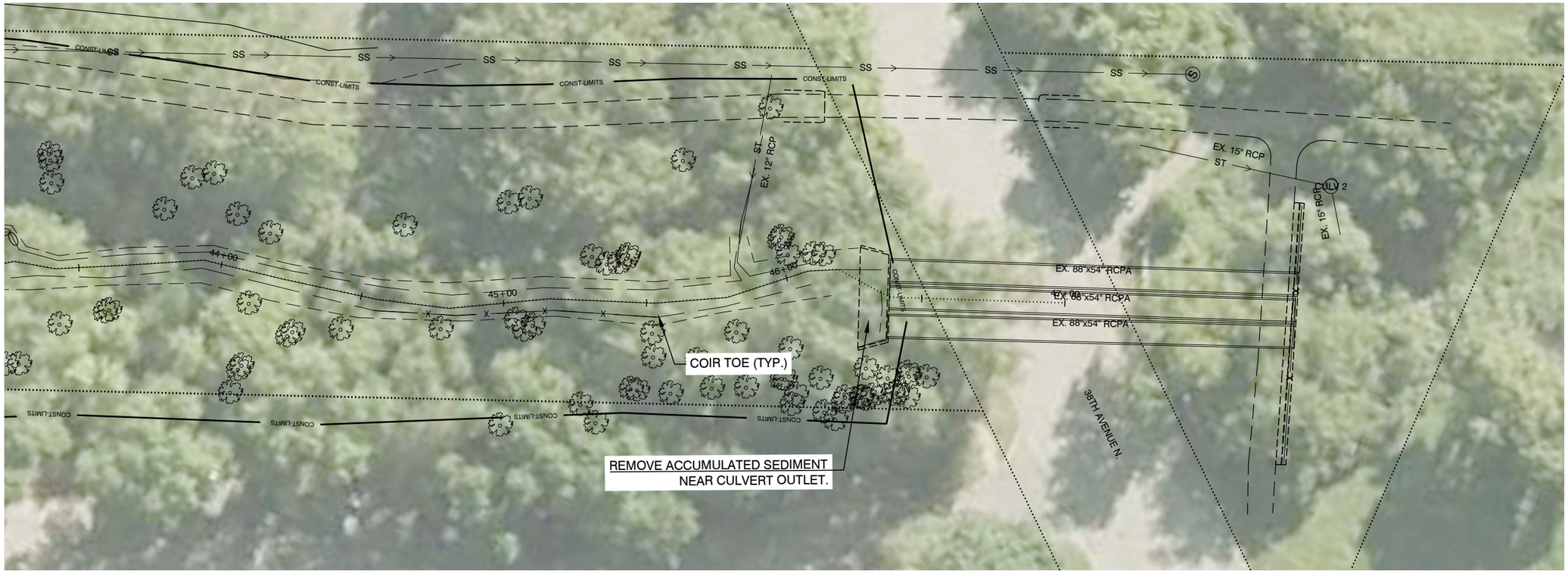


UNDERGROUND
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED CONDITIONS

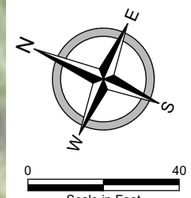
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REV NUM:	----
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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-409

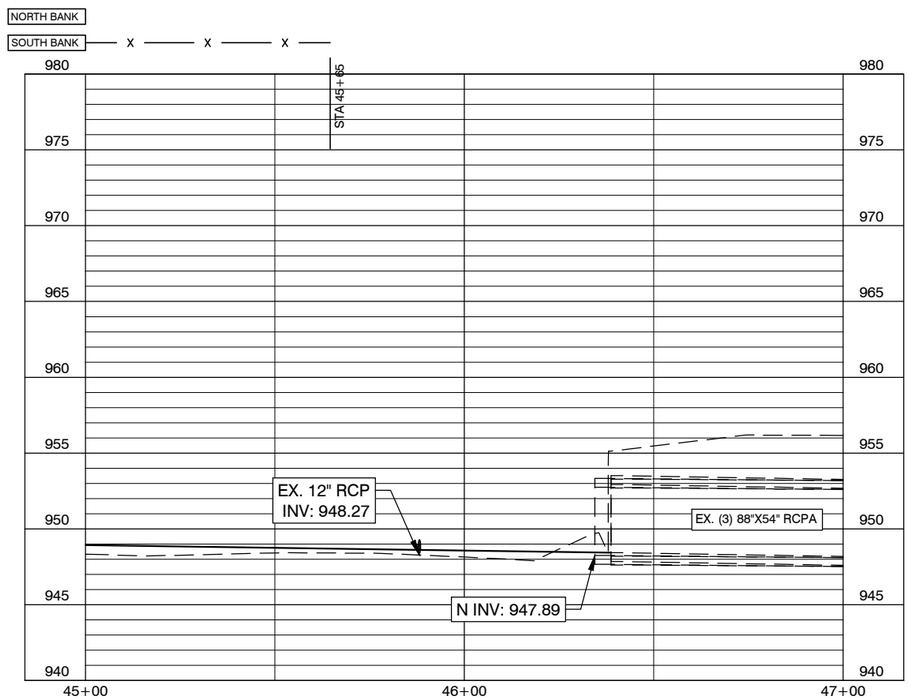
FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Underground.dwg



PRELIMINARY



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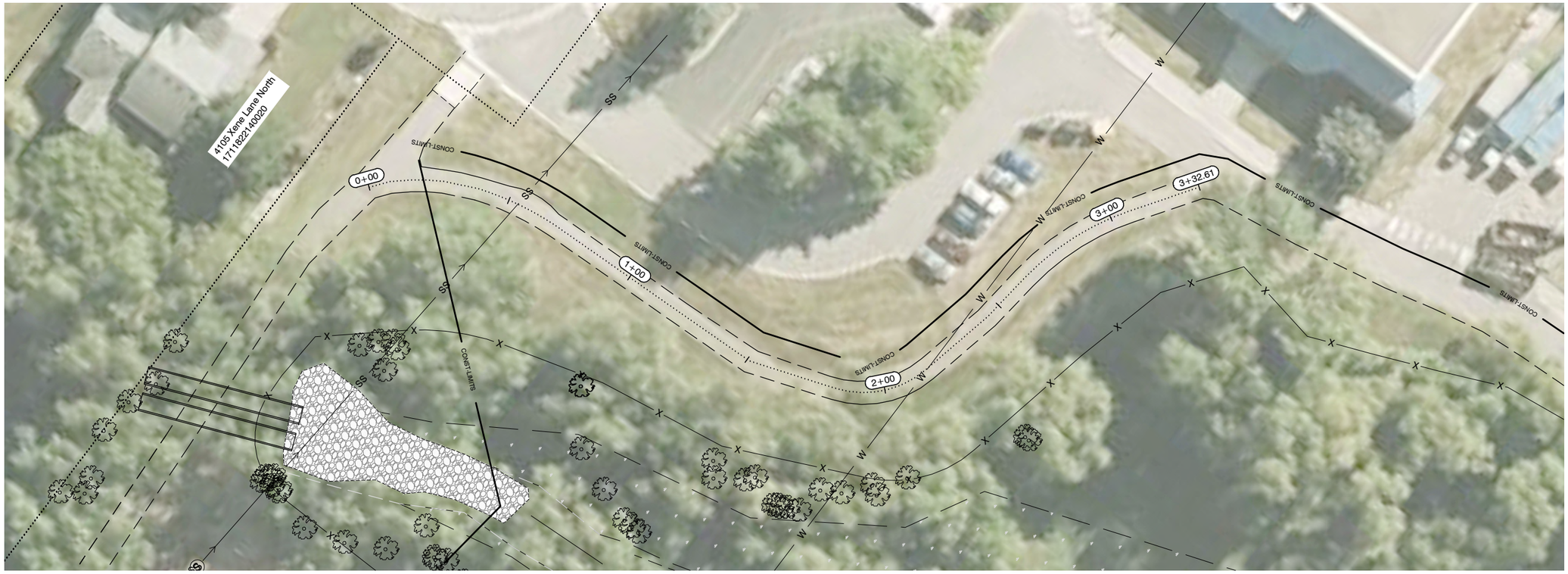


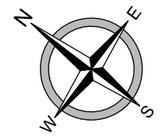
UNDERGROUND
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED CONDITIONS

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

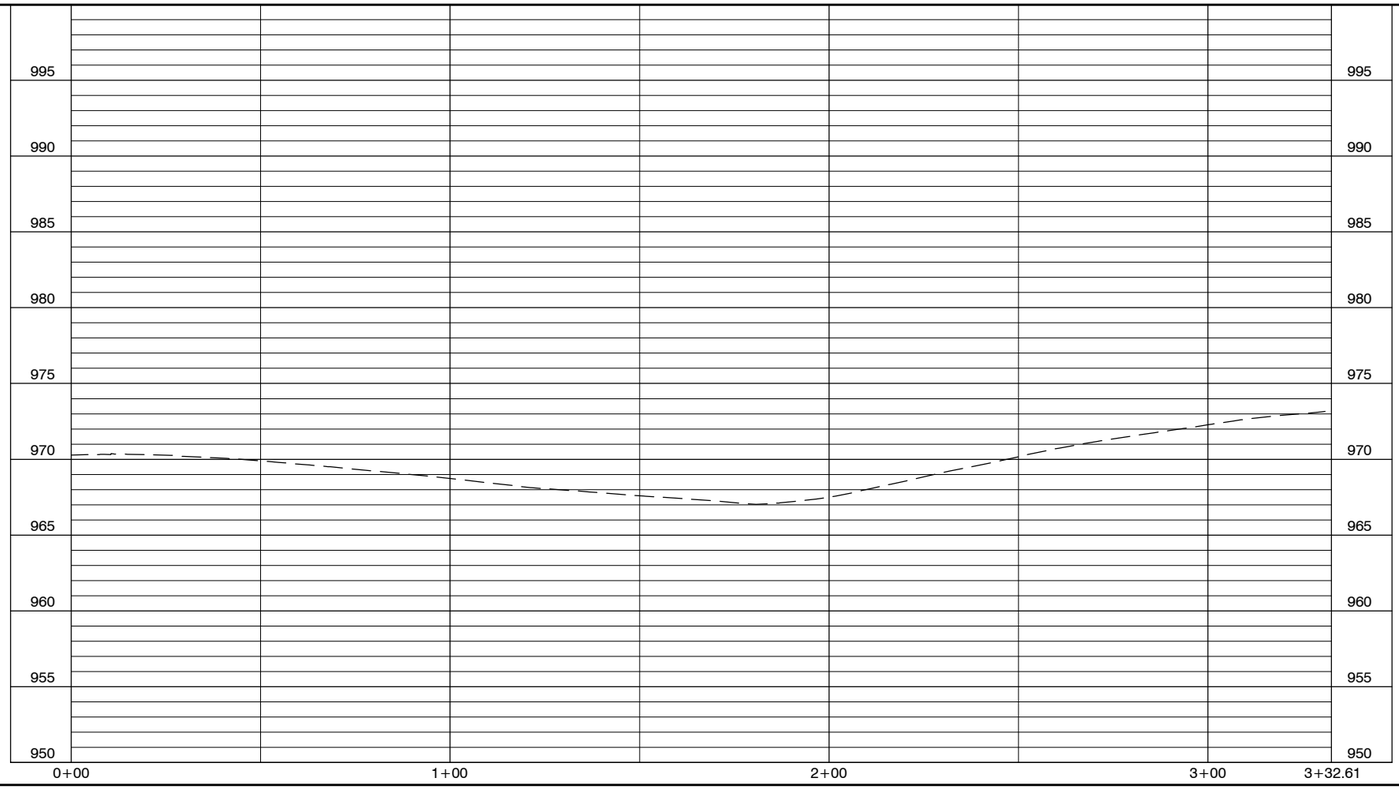
C-410

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Roadway.dwg





0 40
Scale in Feet



PRELIMINARY

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a Vistal company

ROADWAY
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED PATH NO. 1

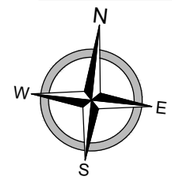
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REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-501

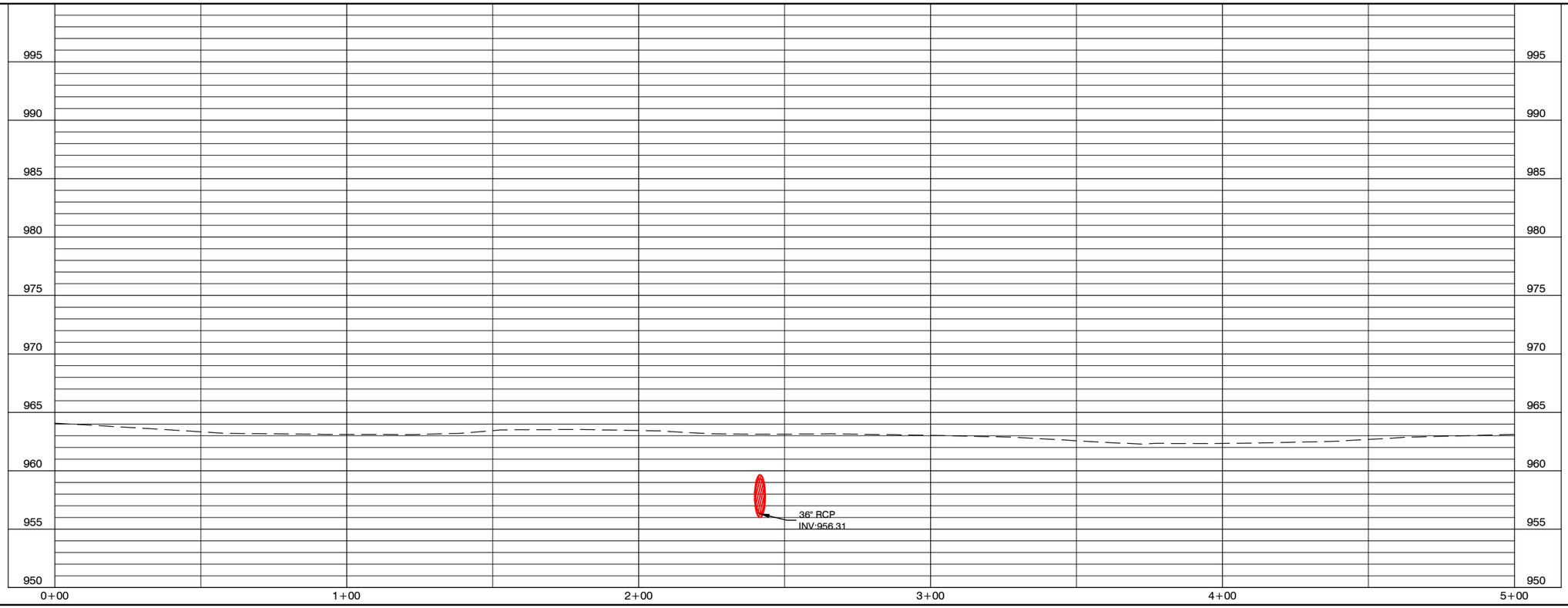
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PRELIMINARY



moore engineering, inc.
a Vistal company



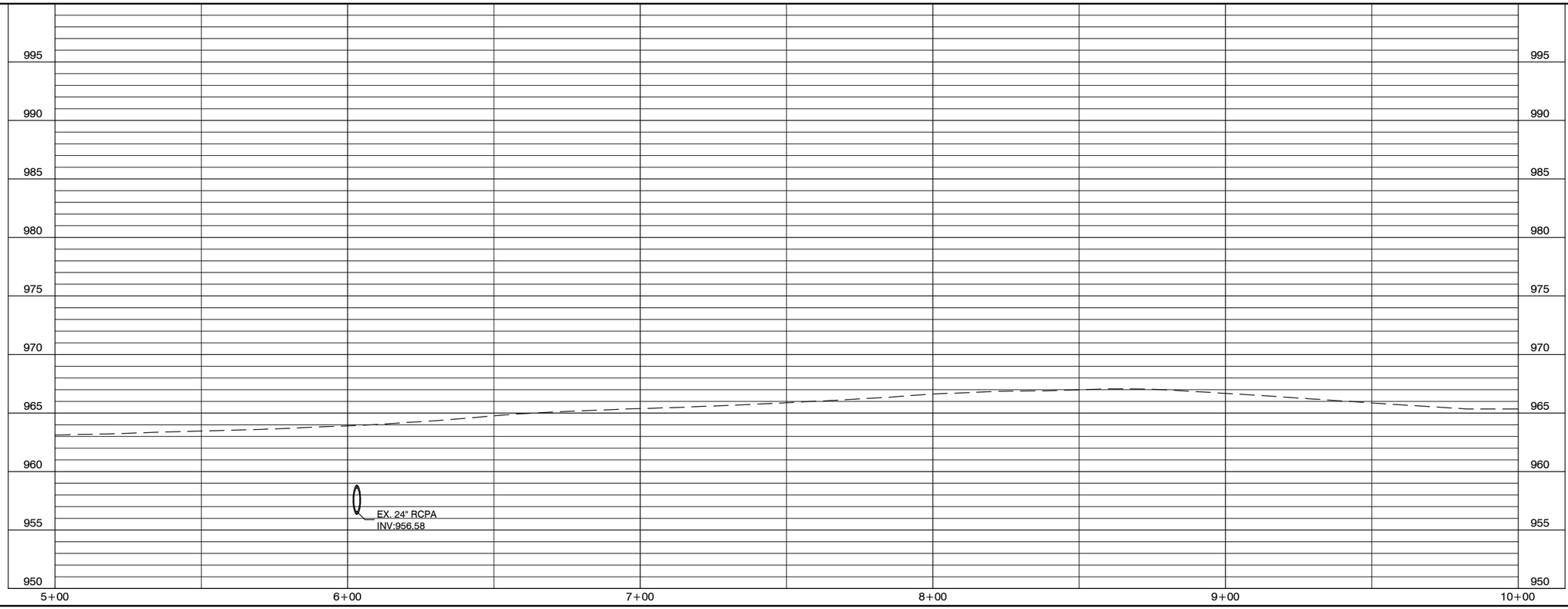
ROADWAY
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED PATH NO. 2

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-502

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Roadway.dwg





PRELIMINARY

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0 40
Scale in Feet

moore engineering, inc.
a Vistal company

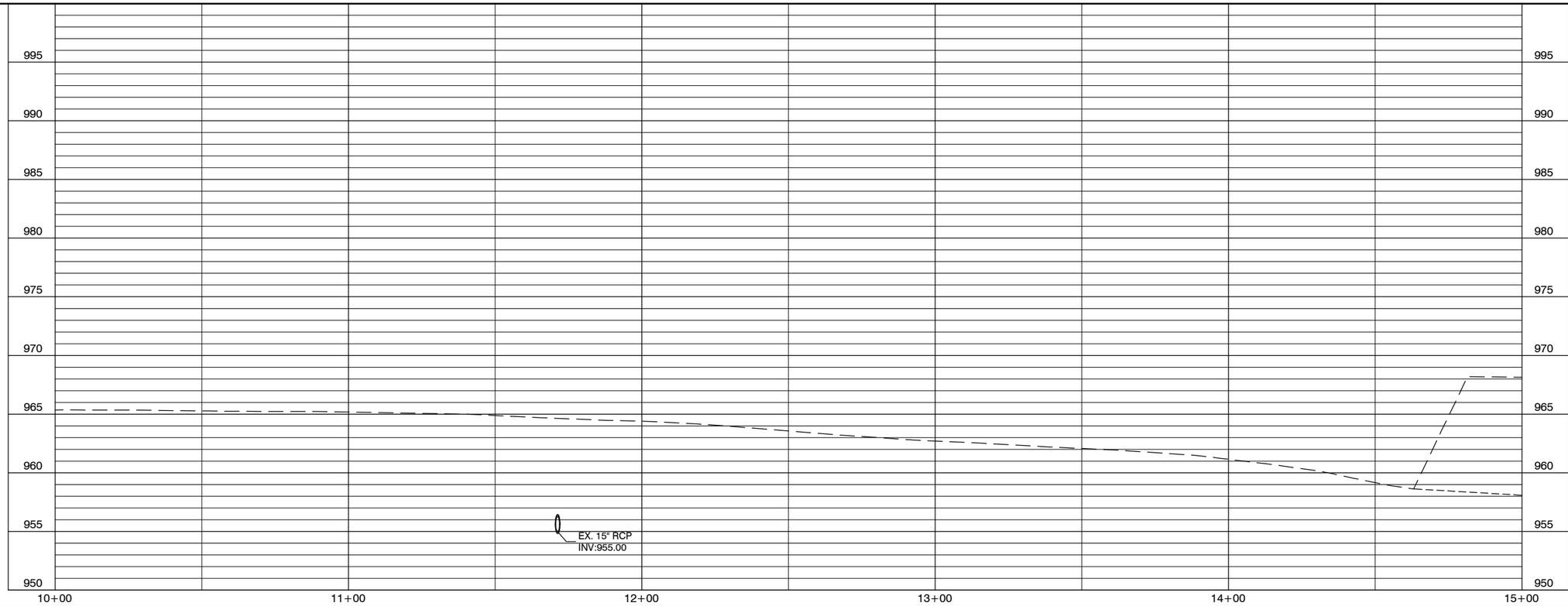
ROADWAY
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED PATH NO. 2

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

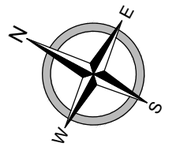
C-503

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PRELIMINARY



0 40
Scale in Feet

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a Vistal company

ROADWAY
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED PATH NO. 2

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
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MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-504

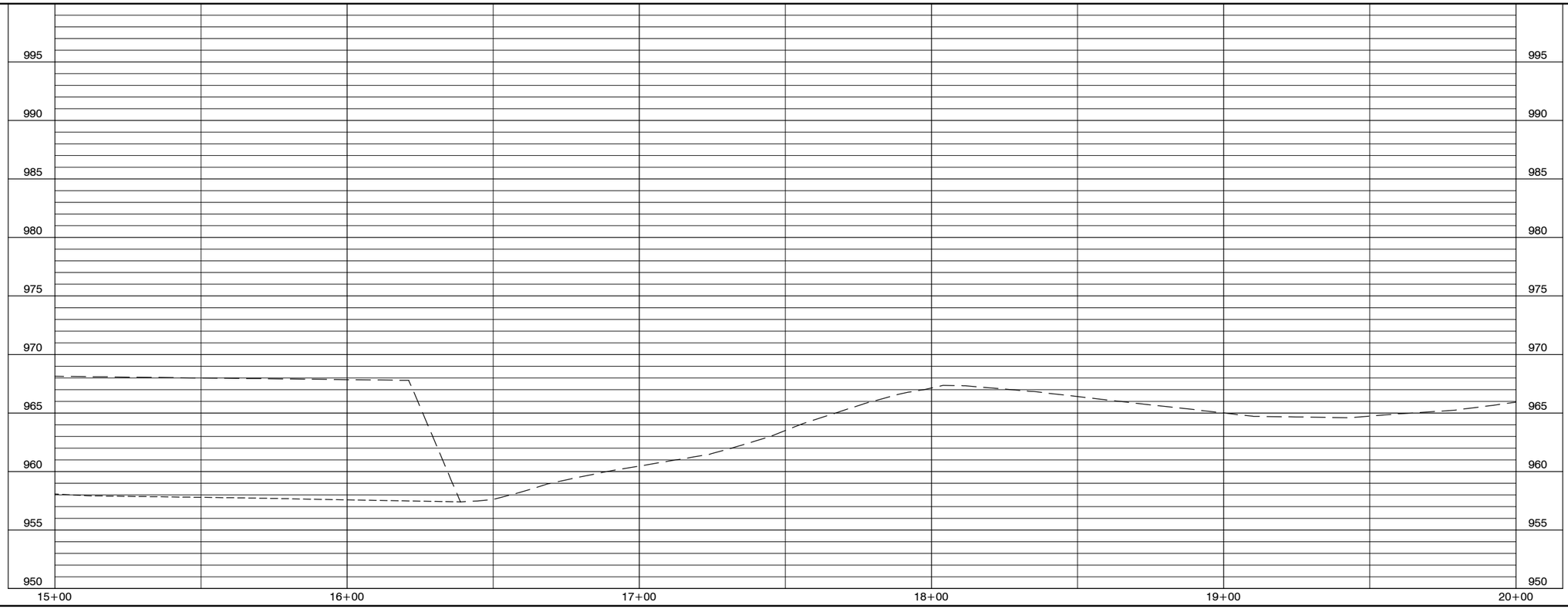
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PRELIMINARY

N E S W

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Scale in Feet



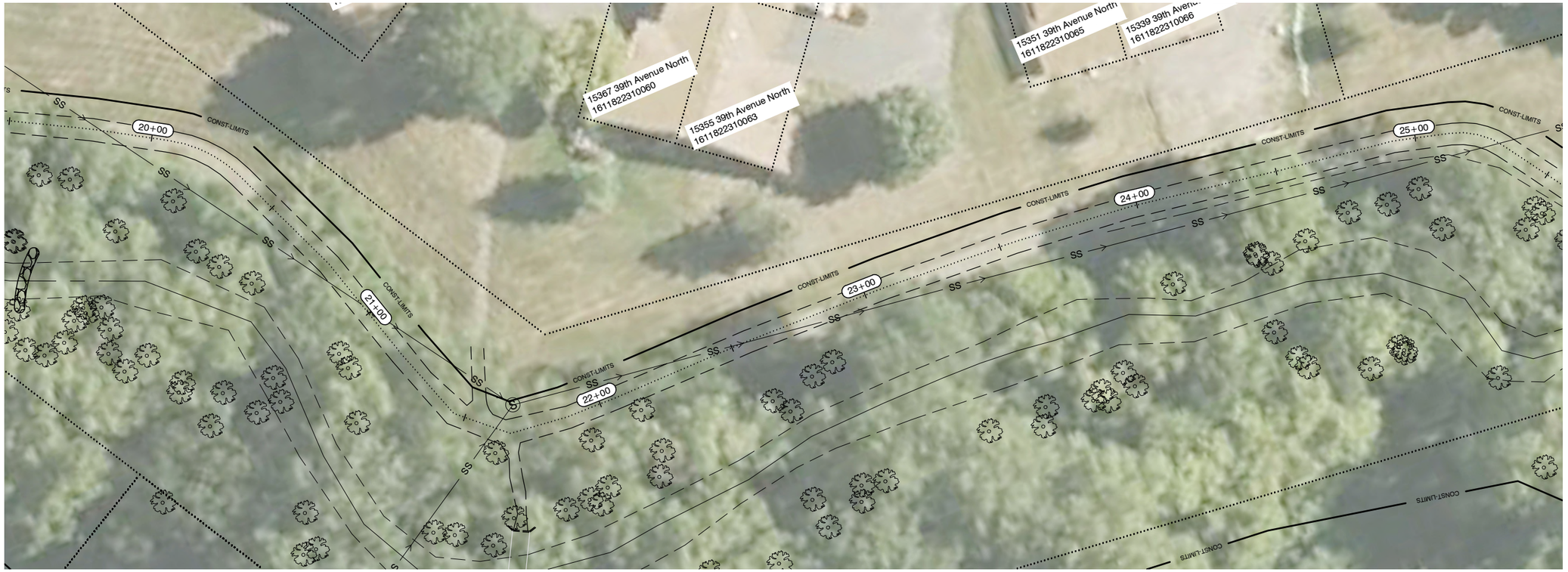
moore engineering, inc.
a Vistal company

ROADWAY
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED PATH NO. 2

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-505

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Roadway.dwg





PRELIMINARY

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Scale in Feet

moore engineering, inc.
a Vistal company

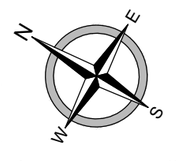
ROADWAY
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED PATH NO. 2

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

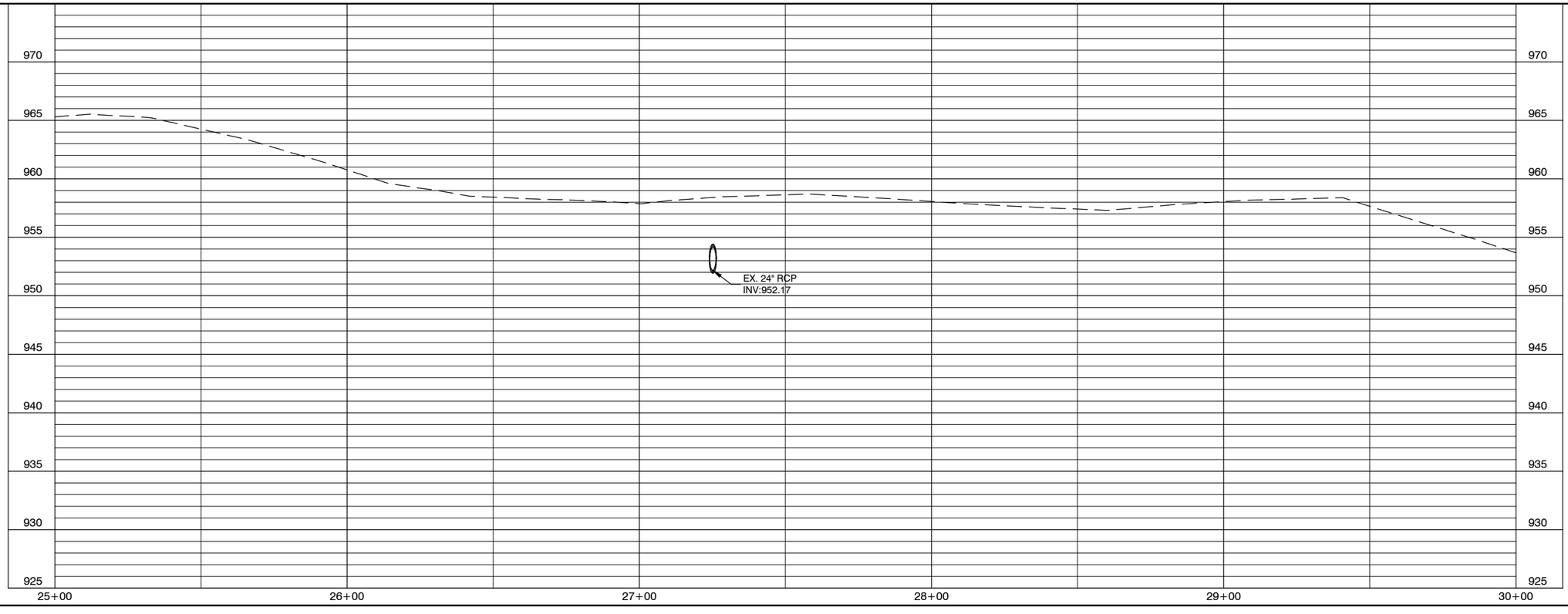
C-506

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Roadway.dwg





0 40
Scale in Feet



PRELIMINARY

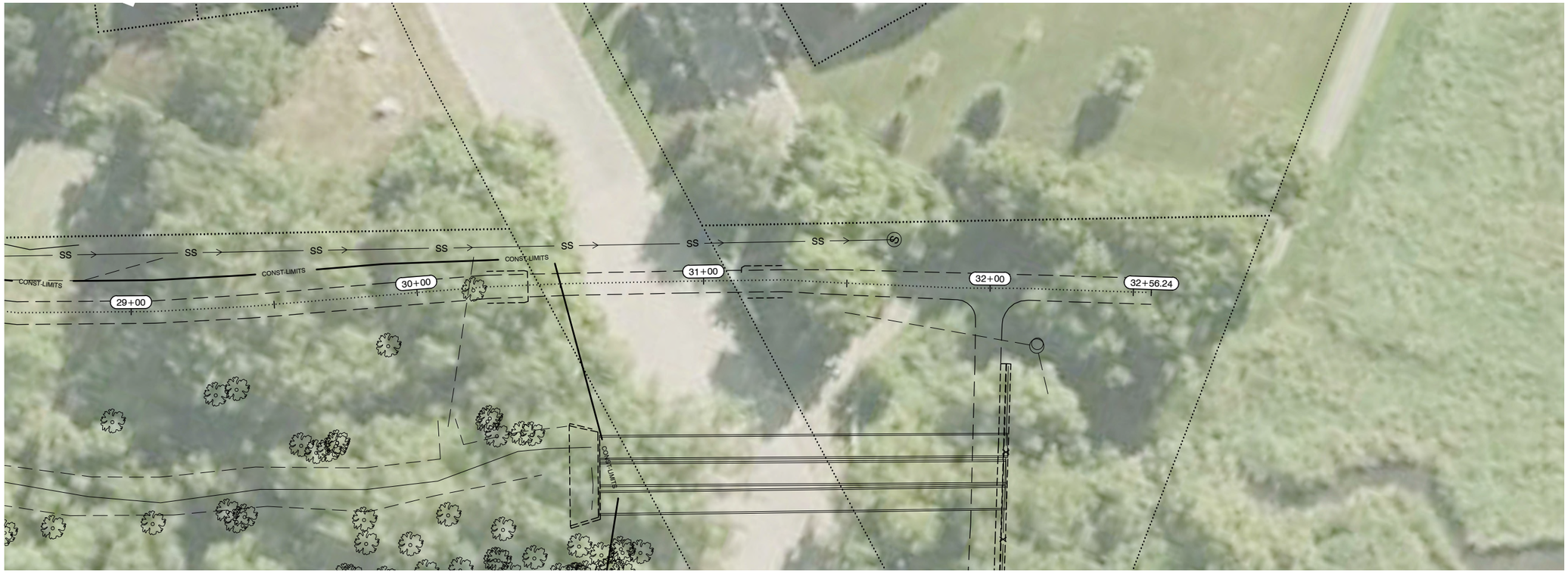
moore engineering, inc.
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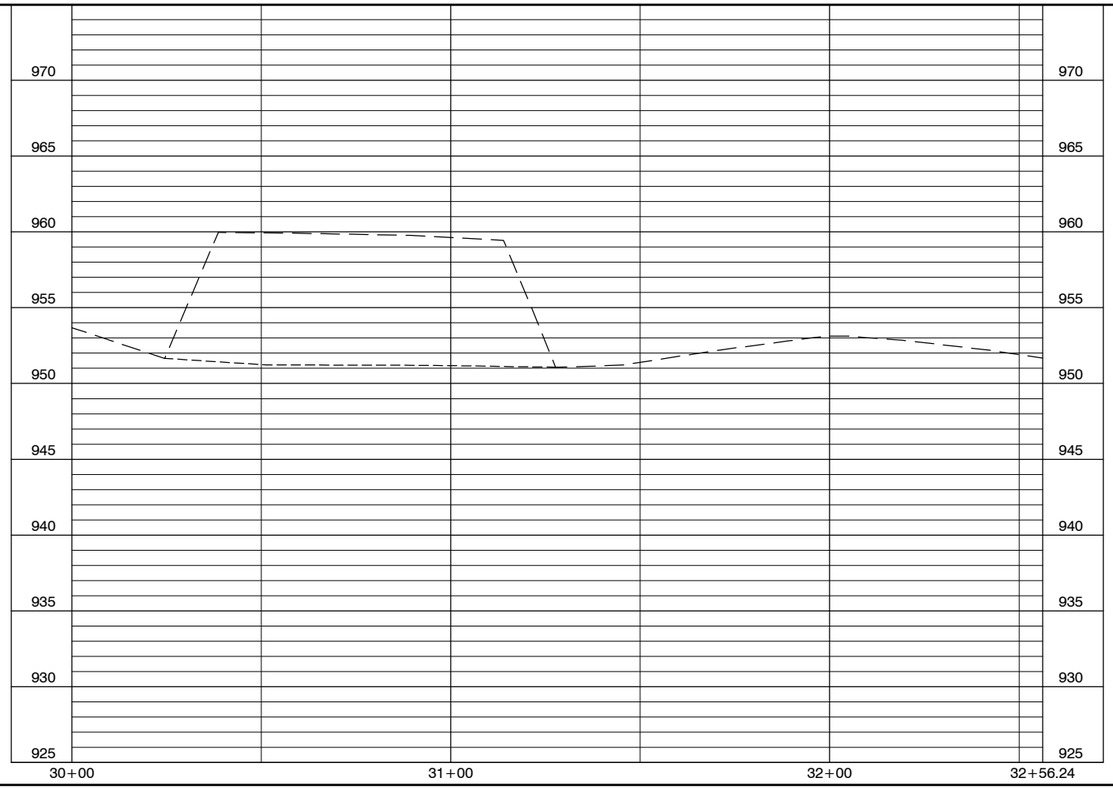
ROADWAY
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED PATH NO. 2

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

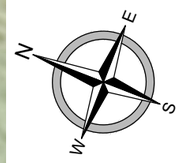
C-507

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PRELIMINARY



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Scale in Feet

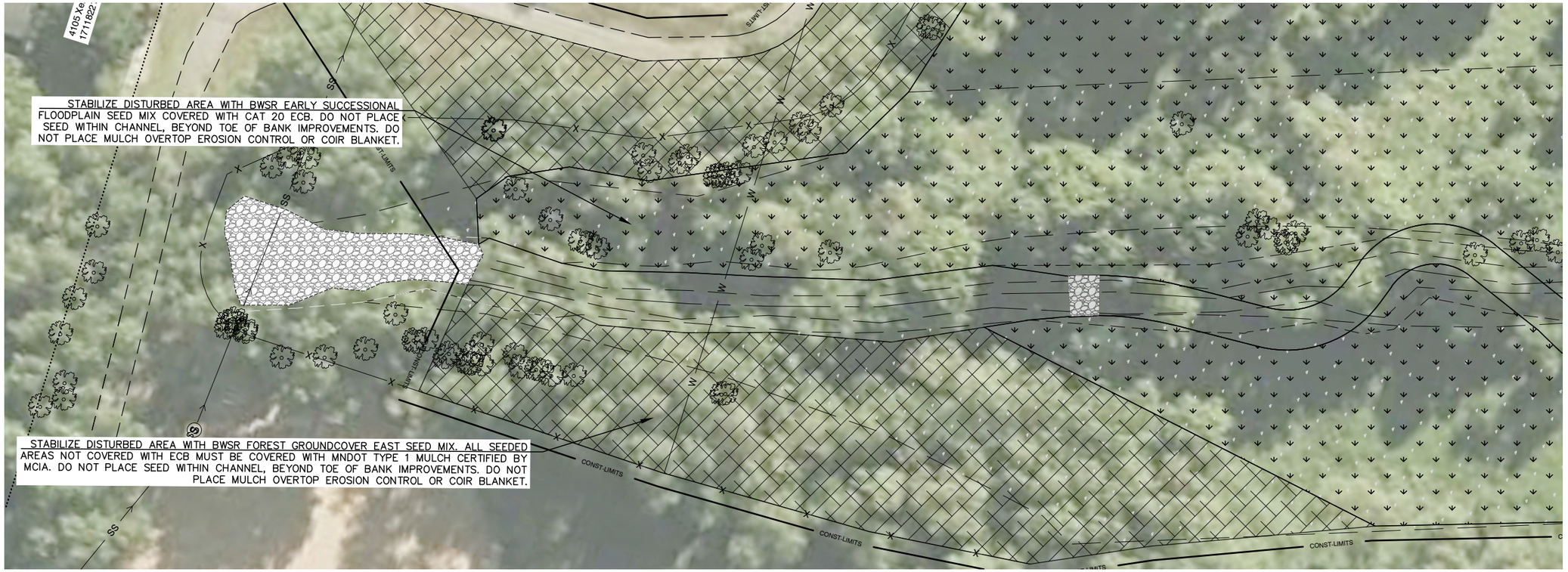
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ROADWAY
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
PROPOSED PATH NO. 2

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

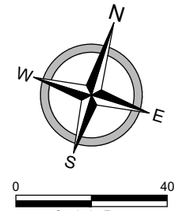
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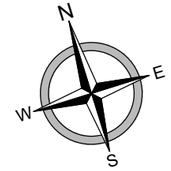
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PRELIMINARY





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Bassett Creek Watershed Management Commission

SITE PLANS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
VEGETATION ESTABLISHMENT PLAN

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-601

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Site.dwg





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Scale in Feet

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City of Plymouth

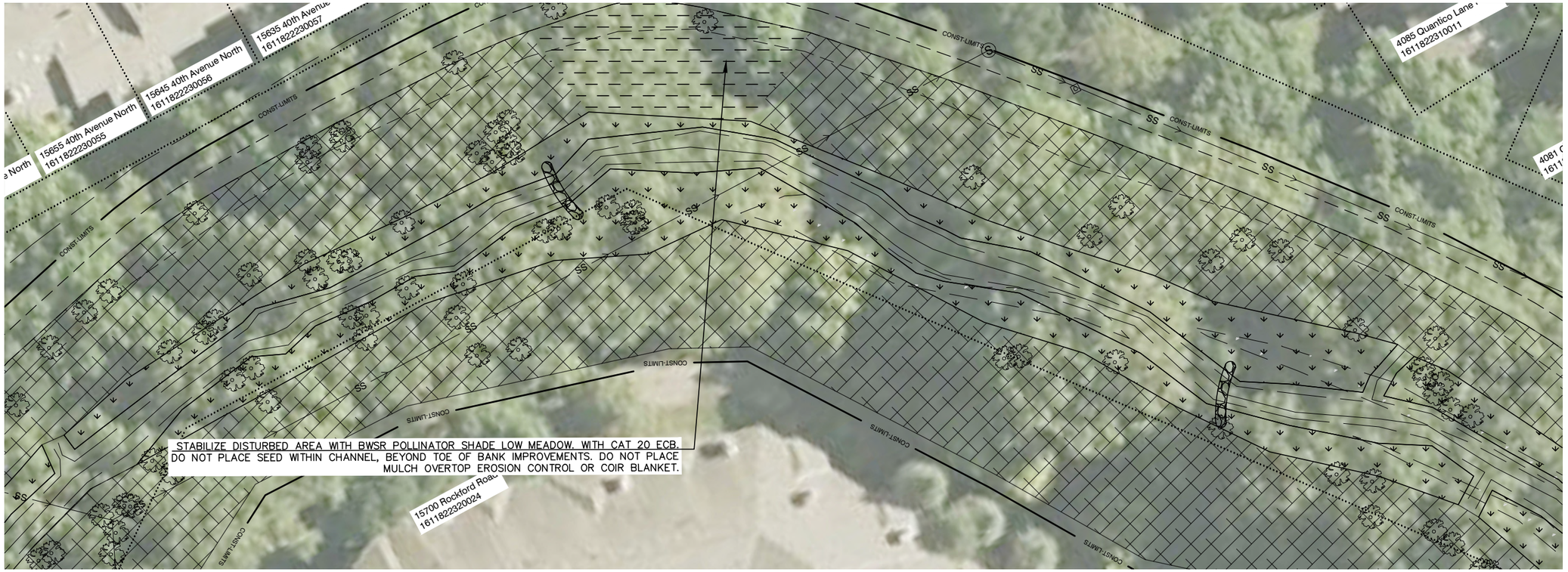
Bassett Creek Watershed Management Commission

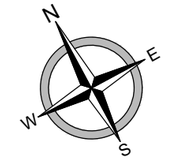
SITE PLANS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
VEGETATION ESTABLISHMENT PLAN

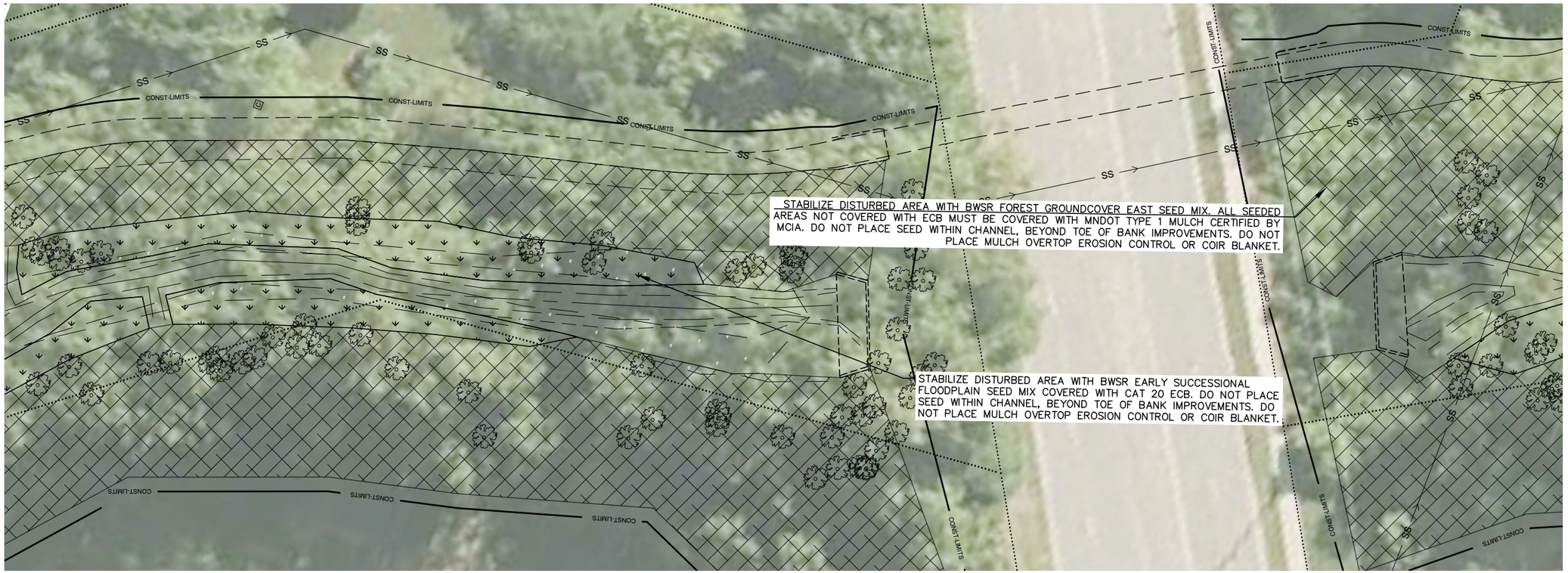
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REV DATE:	----
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PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

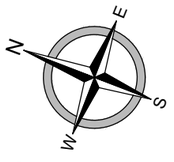
C-602

FILE LOCATION: Q:\Projects\32000\32200\32231 Stream\RestorationProject2026Phase2Design\CADIC3D\Production\32231_Site.dwg









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SITE PLANS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
VEGETATION ESTABLISHMENT PLAN

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-603

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CAD\C3D\Production\32231_Site.dwg

PRELIMINARY



N E S W

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Scale in Feet

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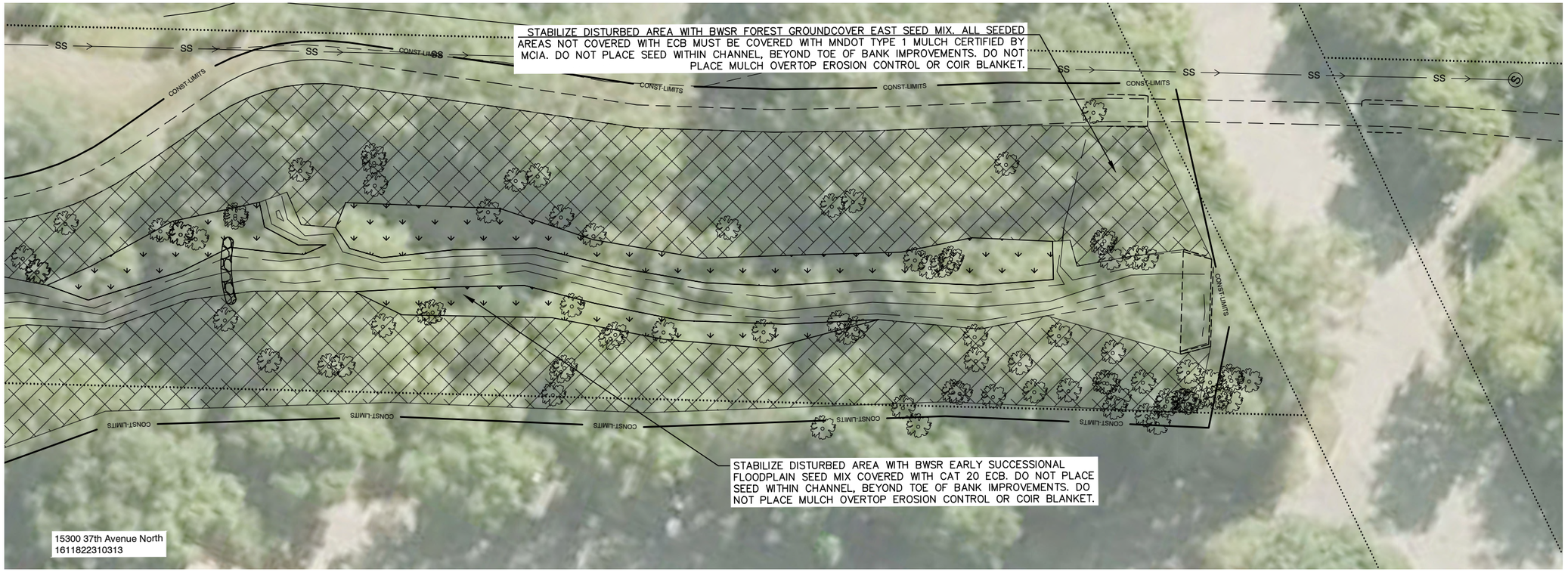
Bassett Creek Watershed Management Commission

SITE PLANS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
VEGETATION ESTABLISHMENT PLAN

DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-604

FILE LOCATION: Q:\Projects\32000\32200\32231 StreamRestorationProject2026Phase2Design\CADIC3D\Production\32231_Site.dwg



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N E S W

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Scale in Feet

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SITE PLANS
PLYMOUTH CREEK STREAM RESTORATION PHASE 2
CITY PROJECT NO. WR25001
CITY OF PLYMOUTH, MINNESOTA
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DATE:	11.03.26
REV DATE:	----
REV NUM:	----
RECORD:	----
PROJECT No.	32231
MANAGER:	JCM
DESIGNER:	QDS
DRAFTER:	DWA
REVIEWER:	DTE

C-605