



Title: Gateway to the Greenway: Approval of Design Plans and Authorization to Solicit Bids

Resolution number: 25-069

Prepared by: Gabriel Sherman, Senior Planner-Project Manager
Phone: (952) 641-4510
gsherman@minnehahacreek.org

Reviewed by: Michael Hayman, Director of Project Planning

Recommended action: The Board of Managers approves design plans for Gateway to the Greenway and authorizes the District Administrator to solicit bids for construction beginning Spring 2026

Schedule: Nov. – Dec. 2025: Finalize bid set
January 2026: Bid solicitation
February 2026: Award contract
Spring/Summer 2026: Notice to proceed
Fall 2026: Substantial completion

Budget considerations: Fund name and code: Cottageville Park Phase II, 3-3146
Fund budget: \$700,000
Expenditures to date: \$5,428
Requested amount of funding: N/A

Past Board action:

- Res # 20-066 Authorization to Execute a Cooperative Agreement with the City of Hopkins for Coordinated Planning, Improvements and Development for 325 Blake Road
- Res # 20-067 Authorization to Release the Request for Proposals for Design Services for 325 Blake Road Stormwater Management and Site Restoration
- Res # 20-083 Authorization to Contract for Site Survey for 325 Blake Road Regional Stormwater and Greenway Project
- Res # 20-091 Authorization to Contract for Design Services for the 325 Blake Road Regional Stormwater and Greenway Project
- Res # 21-063 Acceptance of 30% Design for 325 Blake Road Restoration and Redevelopment
- Res # 21-075 Approval of Phase II Design Contract for 325 Blake Road Restoration and Redevelopment
- Res # 22-010 Approval of 60% Design for 325 Blake Road Restoration and Redevelopment
- Res # 23-009 Authorization to Amend the Phase II Design Contract with HDR for 325 Blake Road Restoration and Redevelopment to Include Structural Engineering Services
- Res # 23-026 Approval of Final Design for 325 Blake Road Regional Stormwater and Greenway Project

- | | |
|--------------|---|
| Res # 23-027 | Approval of the Project Agreement for Cottageville Park Improvement and Maintenance |
| Res # 23-036 | Authorization to Amend the Phase II Design Contract with HDR for 325 Blake Road Restoration and Redevelopment to Include Pre-Bid Coordination |
| Res # 25-019 | Authorization to Issue Notice of Termination of the 325 Blake Road Real Estate Purchase Agreement |
| Res # 25-036 | Authorization to Amend the Phase II Design Contract with HDR for the 325 Blake Road Restoration and Redevelopment Project |

Summary:

Background

In December 2020, Minnehaha Creek Watershed District (MCWD) contracted with HDR, with Damon Farber as subconsultant, to provide design and engineering services to advance its regional stormwater treatment and greenway project at 325 Blake Road and adjacent Cottageville Park properties in Hopkins. The stormwater facility, in particular, was to be coordinated with private development on the 325 Blake Road property. The design process was phased, with the Phase I contract covering project initiation through schematic design and the Phase II contract scoped to bring the project from schematic design through final design, construction documents, and construction bid support. Phase I work was completed in September 2021 with Board acceptance of schematic designs. The Phase II scope of work and contract were authorized in November 2021, and final design was approved by the Board at its May 11, 2023 meeting.

The Board typically authorizes solicitation of bids for construction at the same time it approves final design. However, at the time of design approval, uncertainty over the final shape of the developer's commercial space and public realm adjacent to the regional stormwater pond and ongoing negotiations with the developer regarding the schedule for release of land necessitated a gap between final design and bid solicitation. On June 22, 2023, the Board authorized an amendment to the design contract with HDR for certain additional pre-bid coordination activity that required input and oversight from HDR as MCWD's licensed consulting engineer for the 325 Blake Road project, especially integration of developer and MCWD projects.

With the developer unable to meet the terms of the purchase and sale agreement, the Board authorized issuing a Notice of Termination of the 325 Blake Road Real Estate Purchase Agreement on March 27, 2025. While MCWD determined how to best advance its stormwater capital improvements at 325 Blake Road, contingency planning efforts identified the Gateway to the Greenway element as a portion of the overall 325 Blake Road Restoration and Redevelopment project that could move forward as a standalone project. Construction of Gateway to the Greenway will complete Cottageville Park north/west of Lake St NE. Improvement of the Cottageville parcels south/east of Lake St NE (Nature Play element) will be constructed with the stormwater improvements as part of the 325 Blake Road Main Site. On June 12, 2025, the Board authorized the Administrator to amend the HDR contract to provide for separation of Gateway to the Greenway design documents and assistance to bid this project element independently.

Project Status

Bid Package

HDR and Damon Farber have completed the separation of Gateway to the Greenway from 325 Blake Road/Nature Play into a discrete project. A standalone bid package has now been produced for Gateway to the Greenway to allow it to be bid and constructed independently.

Permits

The standalone Gateway to the Greenway project requires permits from MCWD and the City of Hopkins. The MCWD permit was previously issued in 2023 and, because it expired, was re-issued in October 2025. The selected contractor will be responsible for securing typical City of Hopkins permits. MCWD staff has coordinated with City staff and expect those permits to issue in ordinary fashion.

Project and Maintenance Agreement

Construction and maintenance of the improvements are the subject of a project agreement between MCWD and Hopkins. On May 11, 2023, the Board of Managers approved the Project Agreement for Cottageville Park Improvement

and Maintenance, which consolidated and updated previous agreements between MCWD and Hopkins guiding the expansion of Cottageville Park. The revised and consolidated agreement includes a comprehensive maintenance agreement for existing Cottageville Park, as well as the Gateway to the Greenway and Nature Play project elements. MCWD and Hopkins have granted cross easements to each other, to allow each to carry out its respective maintenance obligations across all Cottageville Park parcels. In general, the City will accept ownership and maintenance obligations for Gateway to the Greenway improvements, except that MCWD will retain maintenance responsibility for the pergola structure and decorative watershed pavement beneath the pergola. When the Nature Play element is built, MCWD also will be responsible to maintain the pedestrian bridge planned to connect the 325 Blake Road Main Site to the Nature Play area.

Cost Estimate

HDR is already under contract for bid support and construction observation services, therefore construction costs paid to the selected contractor are the only anticipated remaining non-incidental project costs.

Construction Activity	Cost Estimate (Total)
Base Bid (with engraved granite pavers under pergola)	\$987,841
Deduct Alternate (with decorative concrete under pergola)	\$912,634

Next Steps and Timeline

At the November 20, 2025, Board of Managers meeting, staff will bring forward the final construction documents and recommend that the Board approve final design and authorize the District Administrator to solicit construction bids during Winter 2025-26. Following solicitation of bids, staff will return to the Board with a recommendation for contract award. MCWD then will contract with the selected contractor and construction of Gateway to the Greenway will occur between Spring and Fall 2026.

Supporting documents:

- Gateway to the Greenway Final Design package



RESOLUTION

Resolution number: 25-069

Title: Gateway to the Greenway: Approval of Design Plans and Authorization to Solicit Bids

- WHEREAS the Minnehaha Creek Watershed District (MCWD) acquired 325 Blake Road, Hopkins, MN in 2011 as a key piece of the Minnehaha Creek Greenway in St. Louis Park and Hopkins;
- WHEREAS the MCWD is implementing a regional stormwater project at 325 Blake Road to treat urban stormwater that outlets into the creek from approximately 270 acres of surrounding area, restore more than 1,000 feet of creek frontage, and improve the adjacent parcels with educational and recreational elements, collectively the 325 Blake Road Regional Stormwater and Greenway and Cottageville Park Phase II Riparian Restoration Project. The project is commonly referenced by its shortened title “325 Blake Road Restoration and Redevelopment”;
- WHEREAS as of March 2020, the construction of both the Powell Road and Lake Street stormwater diversion systems, to bring stormwater to the planned stormwater treatment facility, were complete, with the diversion structures to remain bulk-headed until the facility is constructed;
- WHEREAS on August 27, 2020, the MCWD Board of Managers (“Board”) authorized the execution of a Cooperative Agreement with the City of Hopkins for Coordinated Planning, Improvements and Development for 325 Blake Road;
- WHEREAS also on August 27, 2020, the Board approved release of a Request for Proposals for Design Services for 325 Blake Road Stormwater Management and Site Restoration, seeking landscape architecture and engineering services to complete integrated stormwater management, ecological restoration, and public open space improvements at 325 Blake Road and adjacent parcels;
- WHEREAS on December 3, 2020, the Board authorized a contract for design and engineering services for the 325 Blake Road Restoration and Redevelopment project with HDR, Inc.;
- WHEREAS following completion of 30% design, the Board authorized advancement from schematic design through final design and a construction phasing plan, and on November 4, 2021, approved the Phase II design contract with HDR;
- WHEREAS subsequently the Board directed the design of a custom pergola for the Gateway to the Greenway parcel at Blake Road and Lake Street as a visually meaningful architectural feature, and authorized an amendment to the design contract to include structural engineering services to ensure constructability and safety of the pergola;
- WHEREAS on May 11, 2023, the Board approved final design of the 325 Blake Road Restoration and Redevelopment;
- WHEREAS also on May 11, 2023, the Board approved the Project Agreement for Cottageville Park Improvement and Maintenance, which set forth terms of collaboration between MCWD and the City of Hopkins for project construction, signage and maintenance;

- WHEREAS on June 22, 2023, the Board amended the design contract to include additional pre-construction bid coordination tasks and costs not included in the original Phase II contract that were necessitated by the design and land ownership status of adjacent private development activity with which the 325 Blake Road Restoration and Redevelopment project is intended to be integrated;
- WHEREAS on March 27, 2025, the Board directed the Administrator to issue a notice of termination for the 325 Blake Road Real Estate Purchase Agreement with the developer due to the developer's inability to meet the terms of the agreement and MCWD's need to move forward on its site plans;
- WHEREAS contingency planning identified the Gateway to the Greenway, on 415 Blake Road, as a project component that can advance independently and that doesn't require resolution of the issues delaying the progress of adjacent private development;
- WHEREAS the Phase II design contract assumed the entirety of the 325 Blake Road Restoration and Redevelopment project would be bid at the same time and tasks were scoped and budgeted accordingly;
- WHEREAS to bid and construct the Gateway to the Greenway as a standalone project, construction drawings and specifications must be broken out from the existing construction document package into a separate bid package;
- WHEREAS MCWD requires bidding support and construction services from a qualified engineer and landscape architect to bid and oversee the construction of the Gateway to the Greenway;
- WHEREAS on June 12, 2025, the Board authorized the Administrator to amend the design agreement to produce a separate construction bid package and provide bidding support and construction observation and administration services for the Gateway to the Greenway;
- WHEREAS HDR Engineering has produced a separate construction bid package for the Gateway to the Greenway;

NOW, THEREFORE, BE IT RESOLVED that the Minnehaha Creek Watershed District Board of Managers approves the final design for the Gateway to the Greenway;

BE IT FURTHER RESOLVED that the Board authorizes the District Administrator, on advice of counsel, to solicit bids for construction.

Resolution Number 25-069 was moved by Manager _____, seconded by Manager _____. Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: 11/20/2025

Secretary Date: _____



**MINNEHAHA CREEK
WATERSHED DISTRICT**



**DAMON FARBER
LANDSCAPE ARCHITECTS**

310 South 4th Avenue, Suite 7050
Minneapolis, MN 55415
p. 612.332.7522



Contract Drawings For

415 BLAKE RD

GATEWAY TO THE GREENWAY PROJECT

HDR Project No.
10268112

HOPKINS, MINNESOTA
SEPTEMBER, 2025

INDEX OF DRAWINGS

GENERAL

GC102	GENERAL NOTES
GC103	PROJECT SYMBOLOGY
GC104	SURVEY AND CONTROL
GC105	SITE LAYOUT PLAN
GC106	CONSTRUCTION ACCESS AND PHASING PLAN
GC107	CONSTRUCTION LIMIT CONTROL POINTS

SITE WORK

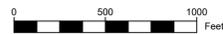
EC101 - EC104	SWPPP & EROSION CONTROL PLAN
CD101	DEMOLITION AND PRESERVATION PLAN
CG101	SITE GRADING PLAN
CG501	CIVIL DETAILS
S001	SITE PLAN AND STRUCTURAL NOTES
SD100	PERGOLA STRUCTURAL FRAMING PLAN
SD301	PERGOLA STRUCTURAL SECTIONS
E001	ELECTRICAL LEGEND
E401	ELECTRICAL SITE PLAN
E601	ELECTRICAL ONE LINE DIAGRAMS AND SCHEDULES
E602	ELECTRICAL DETAILS AND LUMINAIRE SCHEDULE
L000	LANDSCAPE GENERAL NOTES
L001	SITE ORIENTATION PLAN AND ALTERNATES SUMMARY
L005	TREE PROTECTION SCHEDULE
L010	SITE MATERIALS SCHEDULE
L020	TREE AND SHRUB PLANTING SCHEDULE
L021	UNDERSTORY PLANTING SCHEDULE
L030	SITE SOIL SCHEDULE
L056	TREE PROTECTION PLAN
L057	TREE PROTECTION DETAILS
L131	SOIL PLAN
L203	SITE MATERIALS PLAN
L214	LAYOUT AND DIMENSIONS PLAN
L243	UNDERSTORY PLANTING PLAN
L411	SITE SECTIONS
L500 - L501	LANDSCAPE DETAILS - PAVING
L510 - L511	LANDSCAPE DETAILS - CURBING AND EDGING
L521	LANDSCAPE DETAILS - WALL
L530	LANDSCAPE DETAILS - DIMENSIONAL STONE
L540 - L544	LANDSCAPE DETAILS - PERGOLA
L560 - L565	LANDSCAPE DETAILS - SITE FURNISHINGS
L570 - L576	LANDSCAPE DETAILS - SIGNAGE
L581 - L584	LANDSCAPE DETAILS - AMENITY
L590	LANDSCAPE DETAILS - PLANTING

STANDARD DETAILS

SEE PACKAGE FOR DRAWING LIST



PROJECT AREA



GENERAL CONSTRUCTION NOTES

1. LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT THEY ARE SHOWN IN THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING GOPHER ONE CALL FOR A UTILITY LOCATE AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR THE MINNESOTA NPDES/SDS CONSTRUCTION STORMWATER PERMIT (SWPPP) AND MEETING ALL REQUIREMENTS OF THE PERMIT.
3. STAKE CONSTRUCTION LIMITS FOR OWNER'S REPRESENTATIVE TO REVIEW PRIOR TO STARTING CONSTRUCTION.
4. USE CAUTION WHEN WORKING AROUND ANY EXISTING STRUCTURE AND MINNEHAHA CREEK. ANY DAMAGE INCURRED IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. THIS PROJECT INVOLVES WORK WITHIN THE VICINITY OF OVERHEAD POWER LINES. REVIEW APPLICABLE OSHA REQUIREMENTS AND DEVELOP AND FOLLOW A PLAN FOR ALL PERSONNEL AND VEHICLES THAT WILL BE CROSSING OR WORKING NEAR POWER LINES THAT FOLLOWS OSHA REQUIREMENTS.
6. ALL PRE-PROJECT DRAINAGE PATTERNS WILL BE MAINTAINED UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
7. RESTORE AREAS DISTURBED DURING CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS, UNLESS OTHERWISE NOTED.
8. DO NOT INTERRUPT OR BLOCK PUBLIC ROAD TRAFFIC.
9. MINNEHAHA CREEK FLOWS AND WATER LEVELS WILL VARY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR CREEK LEVELS AND WEATHER FORECASTS AND PREPARE THE SITE FOR POTENTIAL HIGH WATER CONDITIONS.
10. THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR RIGHT OF WAY (ROW) AND NON-HABITABLE BUILDING PERMITS WITH THE CITY OF HOPKINS. THE FOLLOWING PROVIDES CITY POINTS OF CONTACT:

ERIC KLINGBEIL, CITY ENGINEER
(EKLINGBEIL@HOPKINSMN.COM)

VANCE CAMPBELL, ENGINEERING COORDINATION - ROW PERMITTING
(VCAMPBELL@HOPKINSMN.COM)

CHRISTOPHER KEARNEY, BUILDING OFFICIAL - BUILDING PERMITTING
(CKEARNEY@HOPKINSMN.COM)

DUSTIN PAVEK, STREETS AND PARKS SUPERVISOR - LIGHTING/SIGNAGE
(DPAVEK@HOPKINSMN.COM)

D
C
B
A



MINNEHAHA CREEK
WATERSHED DISTRICT



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER ANDREW F. JUDD	
PROJECT NUMBER	10268112

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE XX/XX/XXXX LICENSE # XXXXX

415 BLAKE RD GATEWAY TO THE GREENWAY
(NOT FOR CONSTRUCTION)

MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343



FILENAME | GC102.DWG
SCALE | NA

GENERAL NOTES

SHEET
GC102

CIVIL MAPPING SYMBOLOGY

	EMBANKMENT SLOPE (CUT)
	EMBANKMENT SLOPE (FILL)
	EMBANKMENT SLOPE RIGHT ARROW RIGHT
	EMBANKMENT SLOPE LEFT ARROW LEFT
	SPOT ELEVATION/POINT #
	SURVEY BENCHMARK
	SURVEY CONTROL POINT
	HORIZONTAL CONTROL POINT
	VERTICAL CONTROL POINT
	TEST PIT
	SOIL BORING
	FLOW ARROW
	WATER LEVEL IN SECTION/PROFILE
	DOWNGUY
	EXTERIOR UTILITY JUNCTION BOX
	INTERSTATE HIGHWAY SYMBOL
	US HIGHWAY SYMBOL
	STATE HIGHWAY SYMBOL
	COUNTY ROAD SYMBOL
	TEMPORARY SEDIMENT TRAP
	PIEZOMETER
	RAIL SIGNAL
	FIRE HYDRANT
	MONITORING WELL
	SANITARY MANHOLE
	STORM SQUARE CATCH BASIN
	STORM ROUND CATCH BASIN
	STORM DRAINAGE MANHOLE
	DOMESTIC WATER VALVE
	PEDESTAL
	HANDHOLE
	POWER BOX
	POLE
	TARGET ELEVATION

UTILITY/CIVIL LINE SYMBOLOGY

	UTILITY BENEATH STRUCTURE
	RAILROAD
	EASEMENT
	LIMITS OF CONSTRUCTION
	ROW
	EXISTING CONTOUR (MINOR)
	PROPERTY LINES
	EXISTING CONTOUR W/ELEVATION (MAJOR)
	SURVEYED EDGE OF WATER
	NEW CONTOUR (MINOR)
	NEW CONTOUR (MAJOR)
	SEDIMENT CONTROL LOG, TYPE WOOD CHIP
	SILT FENCE, TYPE HI
	FIBER OPTIC
	NATURAL GAS
	STORM SEWER
	SANITARY FORCE MAIN
	SANITARY SEWER
	WATERMAIN
	OVERHEAD ELECTRICAL
	STREET LIGHTS
	UNDERGROUND ELECTRICAL
	CABLE
	UNDERGROUND TELEPHONE
	TELEPHONE
	SEDIMENT CONTROL LOG, TYPE ROCK
	100-FT MINNEHAHA CREEK BUFFER
	TEMPORARY PERIMETER CONTROL
	FLOTATION SILT CURTAIN
	TEMPORARY FENCE
	HYDRAULIC MULCH
	ROLLED EROSION PREVENTION CATEGORY 3N
	RIPRAP
	MNDOT CATEGORY 76 HP-TRM
	EXISTING WETLAND
	SOIL TESTING AREA

GENERAL SYMBOLOGY

ARROW INDICATES DIRECTION OF PLAN NORTH

PLAN
1/4" = 1'-0"
PLAN TITLE

SECTION LETTER
FLAG INDICATES DIRECTION OF SECTION CUT

SHEET WHERE SECTION IS LOCATED

SECTION CUT MARKER

SECTION LETTER

DETAIL SECTION

SHEET WHERE SECTION VIEW IS FIRST CUT *

SECTION TITLE

DETAIL NUMBER

SHEET WHERE DETAIL IS LOCATED *

DETAIL MARKER
FOR REFERENCING DETAILS INCLUDED IN DRAWING SET.

XXXXXXXXXX

DETAIL MARKER
FOR REFERENCING DETAILS BOUND IN SPECIFICATIONS OR SEPARATE VOLUME.

DETAIL NUMBER

DETAIL SCALE

SHEET WHERE DETAIL WAS CALLED OUT *

DETAIL TITLE

ELEVATION NUMBER

ARROW INDICATES POINT OF VIEW

SHEET WHERE ELEVATION IS LOCATED *

SINGLE ELEVATION OR PHOTO MARKER

ELEVATION NUMBER

ARROW INDICATES POINT OF VIEW ELEVATION

INDICATES SHEET WHERE ELEVATION IS LOCATED

MULTIPLE ELEVATION OR PHOTO MARKER

ELEVATION IDENTIFICATION NUMBER

ELEVATION

SCALE

SHEET WHERE POINT OF VIEW MARKER CAN BE FOUND *

ELEVATION TITLE

* EXCEPTIONS WHERE THE SHEET NUMBER IS REPLACED BY A DASH (-).
1) FOR COMMON DETAILS, SECTIONS, ELEVATIONS OR DETAILS THAT ARE CUT OR CALLED OUT ON MULTIPLE SHEETS.
2) SECTIONS, ELEVATIONS OR DETAILS THAT ARE LOCATED ON THE SAME SHEET THEY ARE CUT OR CALLED OUT ON.

SHEET NAMING CONVENTION

DISCIPLINE DESIGNATOR & DISCIPLINE ORDER

GC	GENERAL CIVIL
EC	EROSION CONTROL
CD	CIVIL DEMOLITION
CG	CIVIL GRADING
CT	CIVIL TRAIL
CP	CIVIL STORMWATER PLAN
ST	STRUCTURAL
L	LANDSCAPE ARCHITECT
E	ELECTRICAL

DRAWING TYPE DESIGNATOR

0	GENERAL (SCHEDULES, SYMBOLS, LEGENDS)
1	PLANS
2	PROFILES / ELEVATIONS
3	SECTIONS
4	LARGE SCALE VIEWS
5	DETAILS
6	DIAGRAMS
7	3D REPRESENTATIONS

EXAMPLE

PLAN AND PROFILE, SHEET 1

C	P	1	0	1
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DISCIPLINE DESIGNATOR

	1			
--	---	--	--	--

DRAWING TYPE DESIGNATOR

		0	1	
--	--	---	---	--

SHEET NUMBER

C	P	1	0	1
---	---	---	---	---

SAMPLE SHEET NUMBER

GENERAL NOTES:

1. THIS IS A STANDARD CIVIL SYMBOLOGY SHEET. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.



MINNEHAHA CREEK WATERSHED DISTRICT

PROJECT MANAGER ANDREW F. JUDD		
ISSUE	DATE	DESCRIPTION
PROJECT NUMBER	10268112	

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE XX/XX/XXXX LICENSE # XXXXX

415 BLAKE RD GATEWAY TO THE GREENWAY
(NOT FOR CONSTRUCTION)

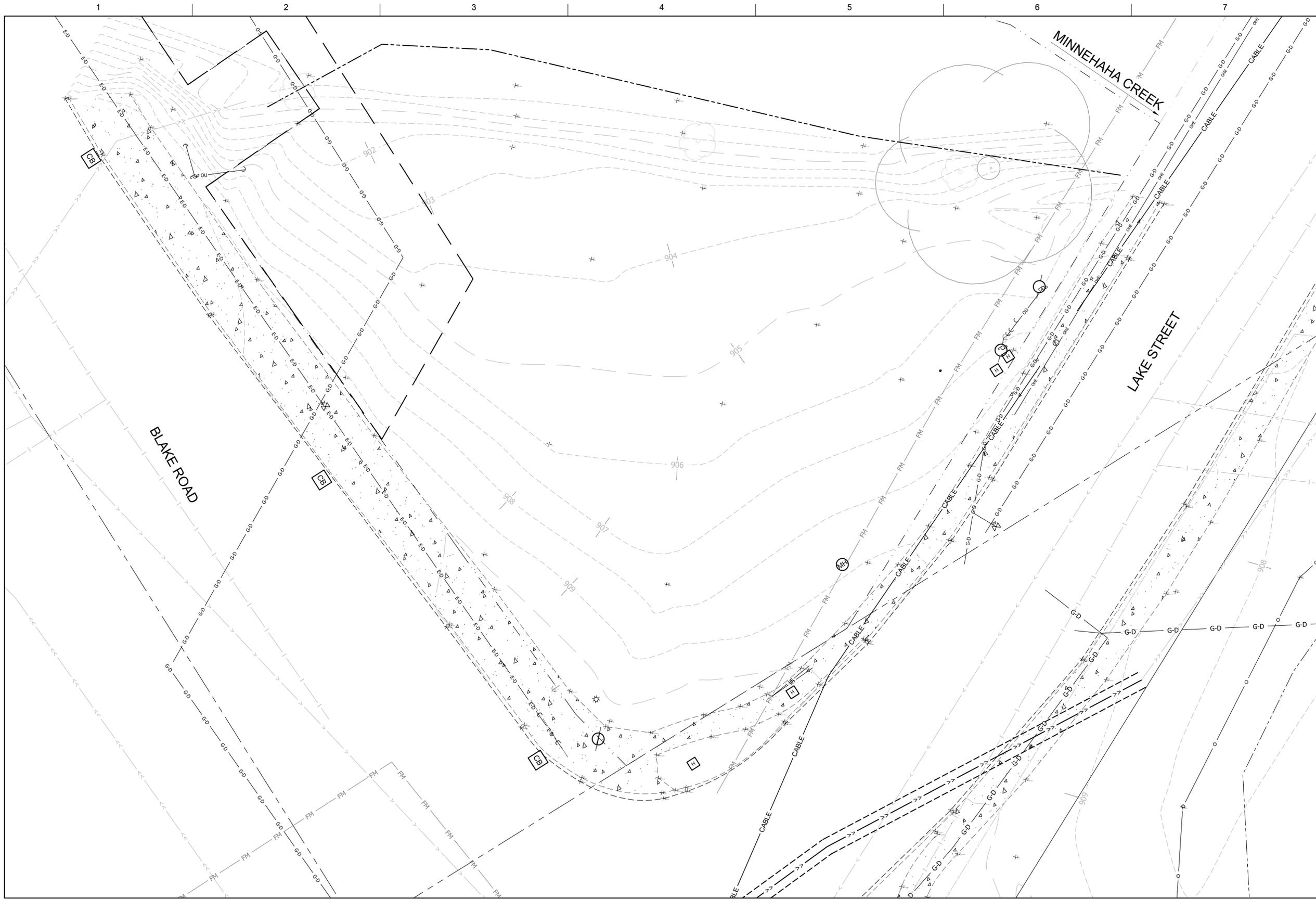
MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343



FILENAME GC103.DWG
SCALE NA

SHEET GC103

PROJECT SYMBOLOGY



HORIZONTAL DATA
HENNEPIN COUNTY
COORDINATE SYSTEM, NAD83,
2011 ADJUSTMENT, U.S.
SURVEY FOOT

VERTICAL DATA
NAVD88
MNDOT MONUMENT SONYA
GSID STATION #95216
ELEVATION = 902.019'

- SURVEY NOTES**
1. SURVEY WAS COMPLETED JANUARY 2021, JUNE 2022, AND JULY 2025 BY STANTEC
 2. VISIBLE FEATURES WERE SURVEYED. DUE TO SNOW COVER ON THE SITE, SOME FEATURES MAY NOT HAVE BEEN VISIBLE AT THE TIME OF SURVEY.
 3. THE UTILITIES SHOWN ON THE SURVEY BASEFILE HAVE BEEN LOCATED FROM ABOVE GROUND VISIBLE EVIDENCE AND UNDERGROUND UTILITY MARKINGS AT THE TIME OF SURVEY.
 4. PRIOR TO ANY SITE DISTURBANCE OR CONSTRUCTION CALL GOPHER STATE ONE-CALL 1-800-252-1166 AND VERIFY ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO STARTING WORK.



MINNEHAHA CREEK
WATERSHED DISTRICT



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PROJECT NUMBER	10268112

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ANDREW F. JUDD, PE
DATE XX/XX/XXXX LICENSE # XXXXX

415 BLAKE RD GATEWAY TO THE GREENWAY
(NOT FOR CONSTRUCTION)

MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343

SURVEY AND CONTROL



FILENAME GC104.DWG
SCALE 1" = 20'

SHEET
GC104



- STAGING AND ACCESS NOTES**
1. MAINTAIN ACCESS TO DEVELOPMENT PORTION OF THE SITE AT ALL TIMES.
 2. CONSTRUCTION VEHICLES AND PERSONNEL SHALL STAY WITHIN DESIGNATED WORK LIMITS AND ACCESS ROUTES AT ALL TIMES.
 3. NO PARKING OF VEHICLES ALONG PUBLIC ROADWAYS OR WITHIN PUBLIC PARKING AREAS. STAGING ACCESS ROAD IS OWNED BY CITY OF HOPKINS. NOTIFY CITY OF HOPKINS 15 DAYS PRIOR TO USE.
 4. RESTORE ANY DISTURBED PAVEMENT AND VEGETATION OUTSIDE WORK AREAS TO PRE-PROJECT CONDITION.
 5. INSPECT PUBLIC ROADS AT CONSTRUCTION EXITS AT THE END OF EACH WORK DAY. CLEAN PUBLIC STREETS OF DEPOSITED SEDIMENT AS FREQUENTLY AS NEEDED, AS DETERMINED BY THE CITY OR ENGINEER TO KEEP THEM SAFE FOR PUBLIC USE.
 6. SEE SHEET GC107 FOR CONSTRUCTION LIMITS CONTROL POINT TABLE.
 7. CLOSE THE NORTH SIDE OF LAKE STREET SIDEWALK AND PROVIDE DETOUR SIGNAGE FOR USE OF COTTAGEVILLE AND SOUTH LAKE ST SIDEWALK FOR PEDESTRIAN CONNECTION FROM LAKE TO BLAKE. SUBMIT PLAN AND RECEIVE APPROVAL FROM CITY OF HOPKINS PRIOR TO INSTALLING.
 8. PROVIDE TEMPORARY CONSTRUCTION FENCING OR JERSEY BARRIERS SEPARATING AN OPEN SIDEWALK FROM CONSTRUCTION AREAS.
 9. LIMITS OF POTENTIAL STAGING AREA HAS BEEN FENCED BY MCWD. REVIEW AREA NEEDS WITH DISTRICT 10 DAYS PRIOR TO MOBILIZING FOR CONSTRUCTION.
 10. USE BORROW AREA SOILS FOR COMMON FILL TO ACHIEVE PROPOSED SITE GRADING. CLEARING AND STRIPPING WILL BE REQUIRED TO REACH SUITABLE SOILS. PRESERVE EXISTING SEDIMENT BASIN AND DRAINAGE. SET REMAINING BORROW AREA SLOPES AT 4H:1V OR FLATTER WHEN CONSTRUCTION IS COMPLETE AND SEED WITH MNDOT 25-121 SANDY GENERAL ROADSIDE MIX.



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER ANDREW F. JUDD	
PROJECT NUMBER	10268112

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ANDREW F. JUDD, PE
DATE XX/XX/XXXX LICENSE # XXXXX

415 BLAKE RD GATEWAY TO THE GREENWAY
(NOT FOR CONSTRUCTION)

MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343

CONSTRUCTION ACCESS AND PHASING PLAN

0 1" 2"

FILENAME GC105-106.DWG
SCALE 1" = 60'

SHEET
GC106

SITE INSPECTION AND MAINTENANCE

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 ALL TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT, EROSION PREVENTION AND SEDIMENT CONTROL BMPs UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND THE NOT HAS BEEN SUBMITTED. INSPECT SURFACE WATER INCLUDING FLOW PATHS FOR SIGNS OF EROSION AND SEDIMENT DEPOSITION. INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES. INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF SITE SEDIMENT ACCUMULATION. INSPECT STORMWATER BMPs FOR SIGNS OF SEDIMENT DEPOSITION, COMPACTION, CONSTRUCTION CONFORMANCE TO DESIGN, AND MATERIAL DEFECTS.

RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES IN WRITING WITHIN 24 HOURS. SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO THE PROJECT OWNER AND ENGINEER. INCLUDE THE FOLLOWING IN THE RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY:

- A. DATE AND TIME OF INSPECTIONS
- B. NAME OF PERSONS CONDUCTING INSPECTIONS
- C. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS
- D. CORRECTIVE ACTIONS TAKEN, INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES
- E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS
- F. DOCUMENTS ADDED AND CHANGES MADE TO THE SWPPP

REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMPs BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY UNLESS LISTED DIFFERENTLY BELOW:

- A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.
- B. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
- C. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIMENT BASINS ONCE THE SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME. COMPLETE WORK WITHIN 72 HOURS OF DISCOVERY.
- D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS AS NECESSARY. CONTACT ALL APPROPRIATE AUTHORITIES PRIOR TO WORKING IN SURFACE WATERS.
- E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO SWEEPING.
- F. MAINTAIN ALL BMPs UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.

ENVIRONMENTAL REVIEW

STORMWATER IS PROHIBITED FROM MIXING WITH CONTAMINATED SOILS AS IDENTIFIED THROUGH STUDIES AND INVESTIGATIONS. THERE ARE NO FURTHER STORMWATER MITIGATION MEASURES REQUIRED AS A RESULT OF ENVIRONMENTAL, ARCHAEOLOGICAL, OR AGENCY REVIEW.

THE PROJECT IS LOCATED IN A WELLHEAD PROTECTION AREA (WHPA) OR A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA).

LAND FEATURE CHANGES (ACRES)

LAND FEATURE INFORMATION	PROJECT SITE
SIZE OF SITE	0.48
TOTAL DISTURBED AREA	0.41
TOTAL EXISTING IMPERVIOUS SURFACE AREA	0.04
TOTAL IMPERVIOUS SURFACE AREA	0.13
TOTAL PROPOSED NET CHANGE IN IMPERVIOUS AREA	(+) 0.09

STABILIZATION TIME FRAMES

AREA	TIME FRAME	NOTES
LAST 200 FEET OF DRAINAGE DITCH OR SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER OR PROPERTY EDGE	1, 2, 3
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	7 DAYS	1, 3
PIPE AND CULVERT OUTLETS	24 HOURS	
EXPOSED SOILS AND STOCKPILES	7 DAYS	1
WITHIN 200 FEET OF A PUBLIC WATER	24 HOURS	7

1. 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. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.

2. STABILIZE WETTED PERIMETER OF DITCHES AND SWALES (I.E., WHERE THE DITCH GETS WET).

3. APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.

4. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER WHERE CONSTRUCTION WILL NOT RESUME. ANY WORK STILL BEING PERFORMED SHALL BE SNOW MULCHED, SEEDED, AND BLANKETED UPON COMPLETION OF LAND DISTURBANCE WITHIN THE TIME FRAMES DESCRIBED IN THE NPDES PERMIT.

5. TOPSOIL BERMS MUST BE STABILIZED IN ORDER TO BE CONSIDERED PERIMETER CONTROL BMPs. USE RAPID STABILIZATION METHODS CONSISTENT WITH STATE OF MINNESOTA SPECIFICATIONS AND AS APPROVED BY THE ENGINEER.

6. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES, HYDROMULCHES, AND EROSION CONTROL BLANKETS.

7. MNDNR LISTS PUBLIC WATER (I.E., MINNEHAHA CREEK) WORK-IN-WATER EXCLUSION DATES BETWEEN MARCH 15 AND JUNE 15. THE CONTRACTOR SHALL COMPLY WITH ALL MNDNR GENERAL PUBLIC WATERS WORK PERMIT REQUIREMENTS AS APPLICABLE. STABILIZE ALL EXPOSED SOILS WITHIN 200 FEET OF THE WATER'S EDGE WITHIN 24 HOURS DURING THE RESTRICTION PERIOD.

GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY

1. AMEND THE SWPPP AND DOCUMENT ANY AND ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.

2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, AND AS REQUESTED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 7 DAYS FOR THE OWNER TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE ENGINEER. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.

3. IT IS THE DESIGNER'S INTENT THAT THE CONTRACTOR CONSTRUCT PONDS AND SIMILAR BMPs AND PLACE EROSION CONTROL BMPs AND STABILIZATION MEASURES BEFORE PUTTING THEM INTO ACTIVE SERVICE TO THE MAXIMUM EXTENT PRACTICABLE.

4. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.

5. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION FROM THE PROJECT ENGINEER PRIOR TO PROCEEDING. PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS.

6. ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET.

7. DIRECT DISCHARGES FROM BMPs TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSION.

8. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND TO CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES.

9. ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITIES BEGIN. MAINTAIN SEDIMENT CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

10. LOCATE PERIMETER CONTROLS ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN-GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100 FOOT INTERVALS.

11. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PLACE BMP A MINIMUM 5 FEET FROM THE TOE OF SLOPE WHERE FEASIBLE. DO NOT PLACE STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORMWATER CONVEYANCES.

12. FLOATING SILT CURTAIN IS ALLOWED AS PERIMETER CONTROL FOR IN WATER WORK ONLY. PLACE THE FLOATING SILT CURTAIN AS CLOSE TO SHORE AS POSSIBLE. PLACE PERIMETER CONTROL BMP ON LAND IMMEDIATELY AFTER THE IN WATER WORK IS COMPLETED.

13. DITCH CHECKS AND SLOPE BREAKS SHALL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.



MINNEHAHA CREEK
WATERSHED DISTRICT

ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10268112

PROJECT MANAGER ANDREW F. JUDD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ANDREW F. JUDD, PE

DATE XX/XX/XXXX LICENSE # XXXXX

415 BLAKE RD GATEWAY TO THE GREENWAY

(NOT FOR CONSTRUCTION)

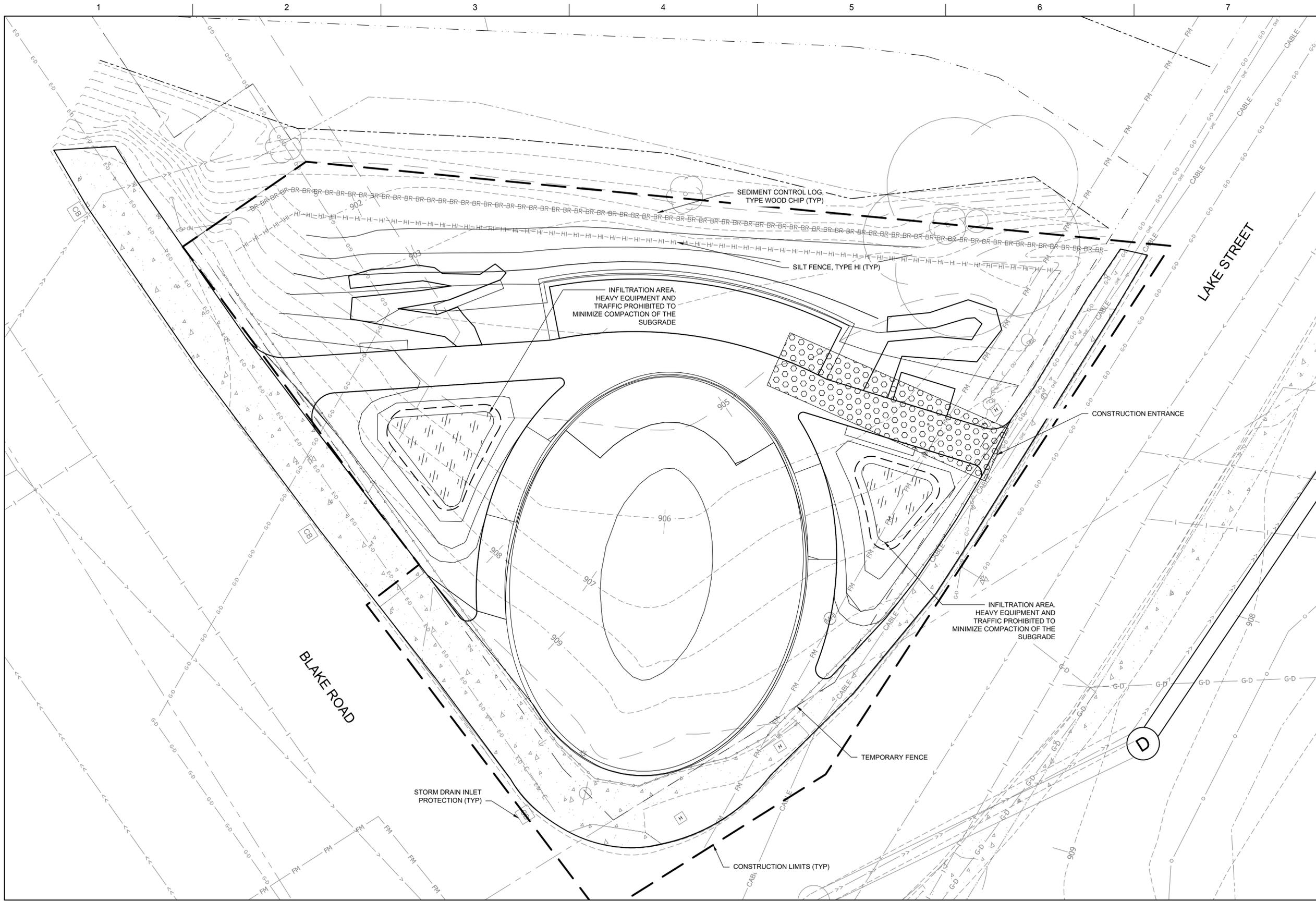
MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343



SWPPP PLAN

FILENAME EC101-103.DWG
SCALE NA

SHEET
EC102



EROSION CONTROL NOTES

1. PROVIDE INLET PROTECTION FOR EXISTING AND NEW INLETS LOCATED DOWNSLOPE OF LAND DISTURBING ACTIVITIES. MAINTAIN INLET PROTECTION AS REQUIRED BY THE SWPPP UNTIL ALL UPSLOPE AREAS HAVE ACHIEVED FINAL STABILIZATION.
2. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE, REMOVAL, AND COMPLIANCE ASSOCIATED WITH EROSION CONTROL AND SWPPP REGULATIONS AND PLANS. EROSION CONTROL BMPs ARE SUBJECT TO FIELD VERIFICATION. ADDITIONAL BMPs MAY BE REQUIRED IF DEEMED NECESSARY BASED ON SITE CONDITIONS, SITE INSPECTION RESULTS, OR APPLICABLE PERMIT REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL FINES ASSOCIATED WITH EROSION CONTROL AND SWPPP VIOLATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND REPAIR OF ALL SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH THE SWPPP AND APPLICABLE REGULATIONS. THIS INCLUDES BUT IS NOT LIMITED TO ROUTINE INSPECTION AND MAINTENANCE, AND RAINFALL-BASED INSPECTION AND MAINTENANCE. THE CONTRACTOR IS RESPONSIBLE TO PREVENT OFF-SITE SEDIMENTATION AND TO STABILIZE THE SITE IN ACCORDANCE WITH SCHEDULES INDICATED IN THE SWPPP AND APPLICABLE REGULATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND WHEN ALL UPSLOPE AREAS HAVE ACHIEVED PERMANENT STABILIZATION WITH 70% OR GREATER UNIFORM PERENNIAL VEGETATIVE COVER.
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SEDIMENT FROM THE SITE IF NOT REUSABLE ON SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL CONVEYANCES AND DRAINAGEWAYS AT COMPLETION OF CONSTRUCTION.
6. ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND FUNCTIONING AS DESIGNED UPON PROJECT COMPLETION.
7. UPSLOPE SILT FENCE, CONSTRUCTION FENCE, OR OTHER ACCESS CONTROLS ARE NOT REQUIRED ACROSS SITE ENTRANCES AND EXITS.
8. SEE THE STANDARD DETAILS PACKAGE FOR TYPICAL EROSION CONTROL INSTALLATION DETAILS.
9. INSPECT PUBLIC ROADS ADJACENT TO THE PROJECT AT THE END OF EACH WORK DAY. CLEAN THE STREETS OF DEPOSITED SEDIMENT AS FREQUENTLY AS NEEDED AS DETERMINED BY THE CITY OR ENGINEER TO KEEP THEM SAFE FOR PUBLIC USE AND TO CONTROL DUST.
10. PRIOR TO GRADING ACTIVITIES, THE CONTRACTOR MUST HAVE TEMPORARY BMPs IN THE PUBLIC ROW INSPECTED BY THE CITY. ALL DOWNSLOPE PERIMETER CONTROLS MUST BE INSTALLED PRIOR TO THE START OF UPSLOPE EARTH WORK.
11. TEMPORARILY SEED AND STABILIZE AREAS STRIPPED OF VEGETATION THAT WILL BE EXPOSED FOR MORE THAN 14 DAYS TO PREVENT EROSION. IF MULCHED, CRIMP THE MULCH INTO THE EXPOSED GROUND.
12. ALL DISTURBED AREAS WITHIN 200 FEET OF THE EDGE OF WATER, THAT ACTIVELY DRAIN TO THE WATERBODY, MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 24 HOURS OF CONSTRUCTION ENDING IN THOSE AREAS FOR A PERIOD OF 24 HOURS OR LONGER.
13. USE PERMANENT SEEDING IN ALL DISTURBED AREAS NOT RECEIVING PERMANENT STABILIZATION, SUCH AS PAVEMENT, ROOFS, SOD, ETC. PERMANENT VEGETATION MUST BE ESTABLISHED BEFORE TEMPORARY SEDIMENT CONTROLS CAN BE REMOVED AND PRIOR TO FINAL APPROVAL.
14. CONCRETE WASHOUT SHALL BE COMPLETED OFF-SITE OR IN SELF-CONTAINED TRUCKS. CONCRETE MAY NOT BE DISPOSED OF ON THE GROUND OR IN SURFACE WATERS.
15. REFER TO MNDNR WORK IN WATER RESTRICTIONS FOR WORK WITHIN AND ADJACENT TO MINNEHAHA CREEK. CONTRACTOR TO MINIMIZE DISTURBANCE TO EXISTING TREES AND VEGETATION TO REMAIN. REFER TO LANDSCAPE (L-SERIES) SHEETS FOR VEGETATION PRESERVATION.
- 16.

PROJECT MANAGER ANDREW F. JUDD

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ANDREW F. JUDD, PE
DATE XX/XX/XXXX LICENSE # XXXXX

415 BLAKE RD GATEWAY TO THE GREENWAY
(NOT FOR CONSTRUCTION)

MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343

EROSION CONTROL PLAN



FILENAME EC104-105.DWG
SCALE 1" = 20'

SHEET
EC104

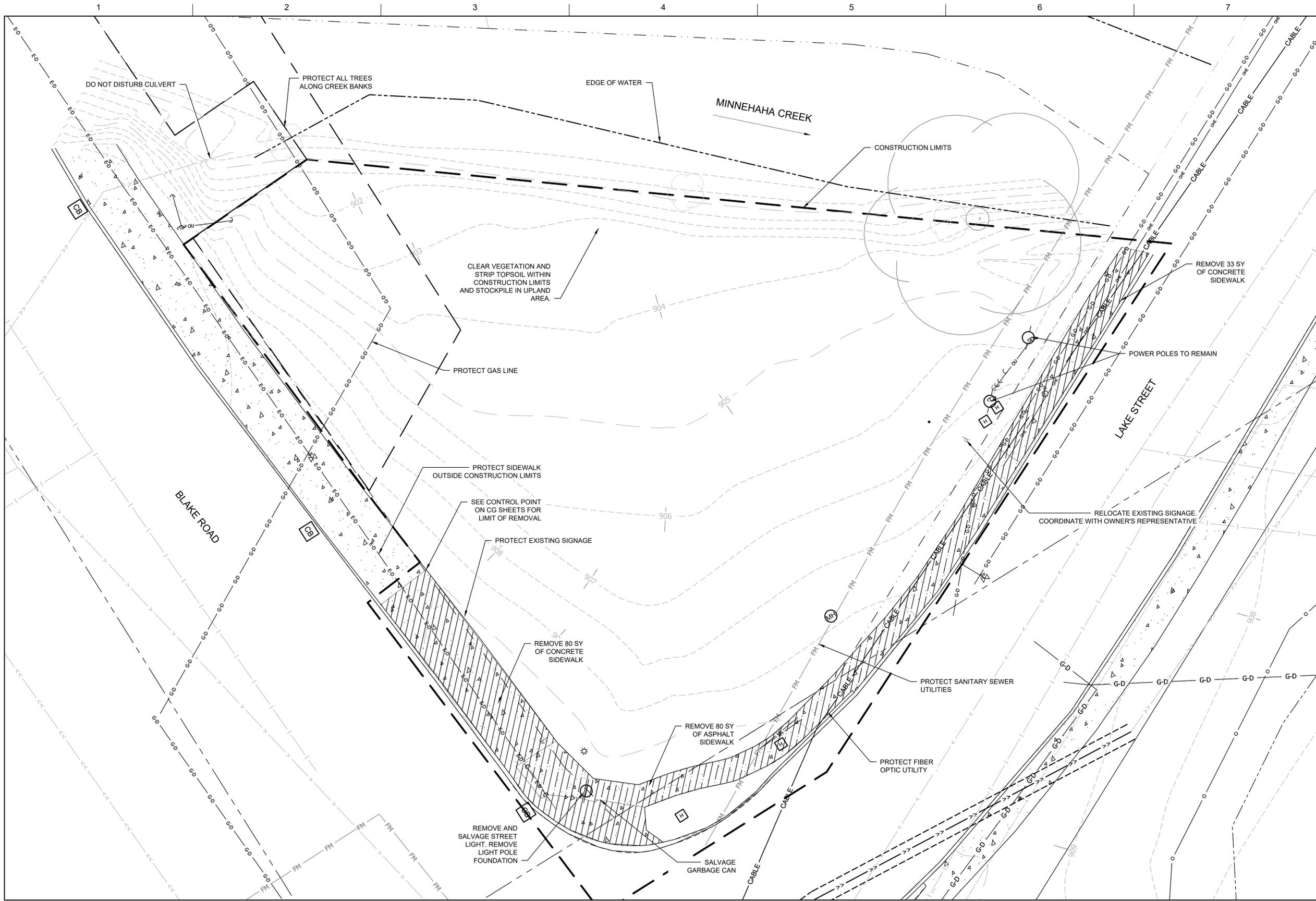


MINNEHAHA CREEK
WATERSHED DISTRICT



ISSUE	DATE	DESCRIPTION

PROJECT NUMBER	10268112
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GENERAL NOTES

1. FIELD VERIFY LOCATION OF ALL ELEMENTS SHOWN FOR DEMOLITION PRIOR TO BEGINNING DEMOLITION ACTIVITIES.
2. THE LIMITS, EXTENT, AND ITEMS TO BE DEMOLISHED ARE PROVIDED AS A GUIDE. ADDITIONAL DEMOLITION WITHIN THE LIMITS OF CONSTRUCTION MAY BE REQUIRED. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY APPARENT CONFLICTS BETWEEN ITEMS NOT IDENTIFIED FOR DEMOLITION AND PROPOSED PROJECT FEATURES.
3. SOME UTILITY REMOVALS AND RELOCATIONS WILL BE COMPLETED BY OTHERS PRIOR TO OR DURING THIS CONTRACT. COORDINATE LOCATION AND SCHEDULE WITH OWNER'S REPRESENTATIVE.
4. CALL GOPHER STATE ONE CALL 1-800-252-1166 AND VERIFY ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO STARTING WORK.
5. DO NOT BURY, DUMP, OR DISCHARGE DEBRIS ON SITE.
6. STAY WITHIN LIMITS OF CONSTRUCTION AND DO NOT DISTURB CREEK BANK VEGETATION UNLESS REQUIRED FOR PROPOSED CONSTRUCTION.
7. ALL TREES IDENTIFIED FOR REMOVAL ARE IDENTIFIED ON THE L050 SHEET SERIES. VERIFY ALL TREE REMOVALS WITH OWNER'S REPRESENTATIVE PRIOR TO BEGINNING TREE REMOVAL.
8. SEE DETAILS ON SHEET L057 FOR TREE PROTECTION REQUIREMENTS FOR TREES IDENTIFIED TO REMAIN WITHIN LIMITS OF CONSTRUCTION.
9. AT ALL LOCATIONS WHERE PROPOSED PAVEMENT TIES INTO EXISTING, SAW CUT AND REMOVE EXISTING PAVEMENT TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW PAVEMENT.
10. REPLACE ANY CURB, SIDEWALK, PAVEMENT OR OTHER EXISTING FEATURES DEGRADED OR DAMAGED BY CONSTRUCTION OPERATIONS.

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**415 BLAKE RD GATEWAY TO THE GREENWAY
(NOT FOR CONSTRUCTION)**

MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343

DEMOLITION PLAN



FILENAME CD101-103.DWG
SCALE 1" = 10'

SHEET
CD101

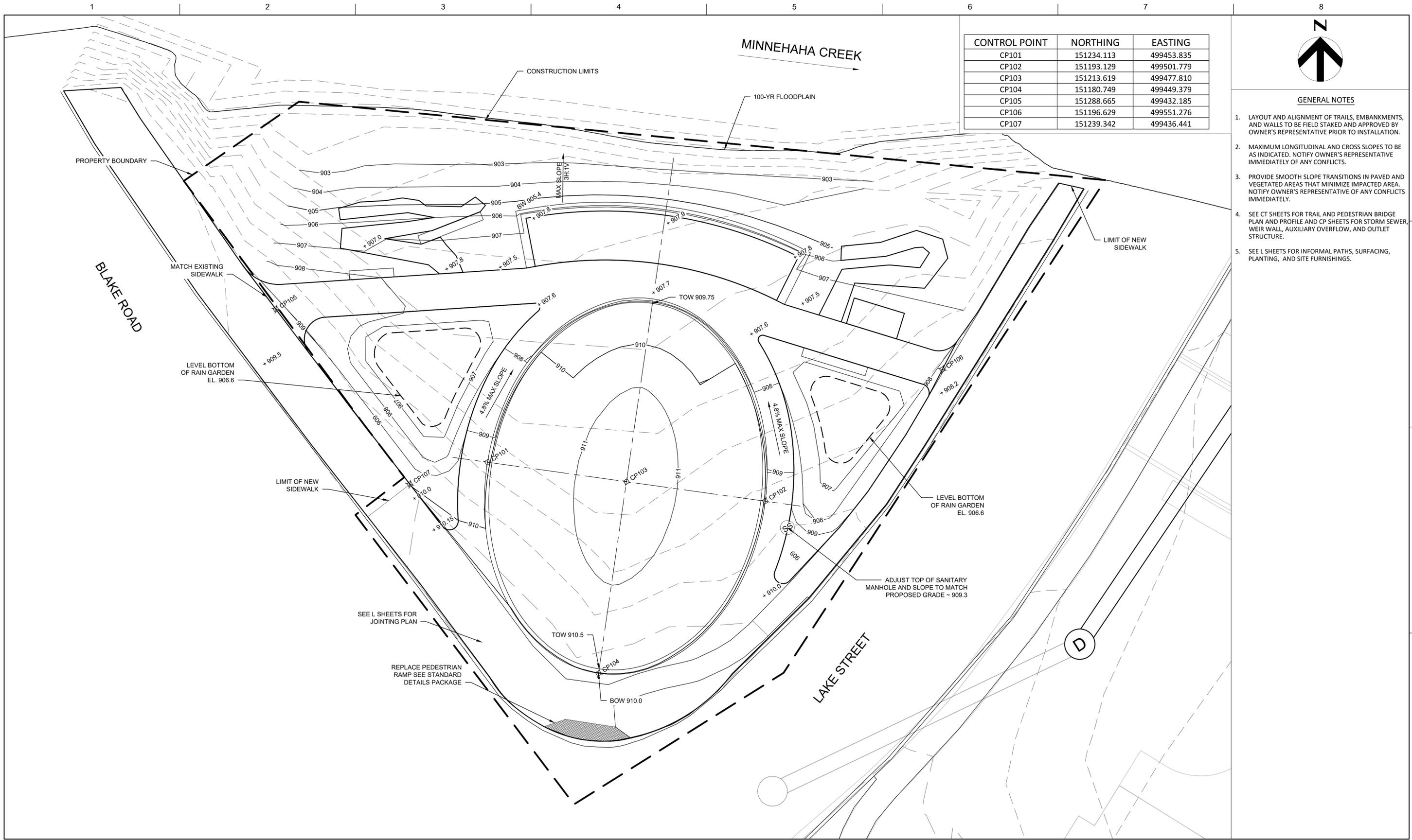


MINNEHAHA CREEK
WATERSHED DISTRICT



ISSUE	DATE	DESCRIPTION

PROJECT NUMBER	10268112
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CONTROL POINT	NORTHING	EASTING
CP101	151234.113	499453.835
CP102	151193.129	499501.779
CP103	151213.619	499477.810
CP104	151180.749	499449.379
CP105	151288.665	499432.185
CP106	151196.629	499551.276
CP107	151239.342	499436.441

- GENERAL NOTES**
- LAYOUT AND ALIGNMENT OF TRAILS, EMBANKMENTS, AND WALLS TO BE FIELD STAKED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
 - MAXIMUM LONGITUDINAL AND CROSS SLOPES TO BE AS INDICATED. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY CONFLICTS.
 - PROVIDE SMOOTH SLOPE TRANSITIONS IN PAVED AND VEGETATED AREAS THAT MINIMIZE IMPACTED AREA. NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICTS IMMEDIATELY.
 - SEE CT SHEETS FOR TRAIL AND PEDESTRIAN BRIDGE PLAN AND PROFILE AND CP SHEETS FOR STORM SEWER, WEIR WALL, AUXILIARY OVERFLOW, AND OUTLET STRUCTURE.
 - SEE L SHEETS FOR INFORMAL PATHS, SURFACING, PLANTING, AND SITE FURNISHINGS.



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER ANDREW F. JUDD

PROJECT NUMBER 10268112

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ANDREW F. JUDD, PE
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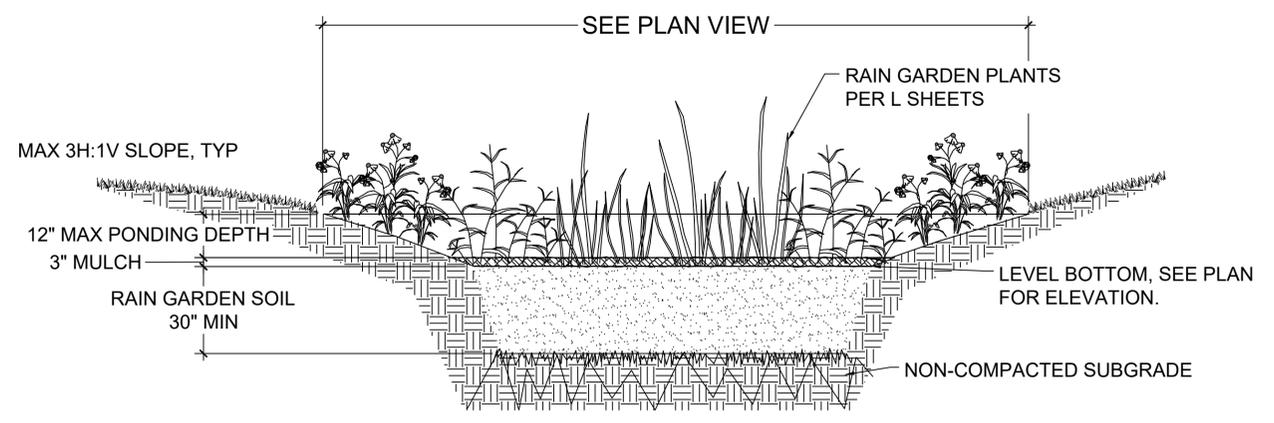
MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343

SITE GRADING PLAN

0 1" 2"

FILENAME CG101-105.DWG
SCALE 1" = 10'

SHEET
CG101



RAIN GARDEN DETAIL
NOT TO SCALE

D
C
B
A



MINNEHAHA CREEK
WATERSHED DISTRICT



ISSUE	DATE	DESCRIPTION

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415 BLAKE RD GATEWAY TO THE GREENWAY
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MINNEHAHA CREEK WATERSHED DISTRICT
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HOPKINS, MN 55343

CIVIL DETAILS



FILENAME CG501.DWG
SCALE NA

SHEET
CG501



GENERAL:
SCOPE:
 THE NOTES ON THIS SHEET AND THE STANDARD STRUCTURAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT WHETHER SPECIFICALLY CALLED OUT OR NOT, EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY ON STRUCTURAL SHEETS. IF THERE ARE QUESTIONS, THEY SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ANSWERED IN WRITING PRIOR TO CONSTRUCTION.

APPLICABLE SPECIFICATIONS AND CODES:
 A. 2020 MINNESOTA BUILDING CODE
 B. 2018 INTERNATIONAL BUILDING CODE
 C. ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 D. ASCE7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS

STANDARD DETAILS:
 THE STANDARD DETAILS DEPICT TYPICAL DETAILING TO BE USED ON THIS PROJECT. IF CONDITIONS ARE NOT EXPLICITLY SHOWN ON THE DRAWINGS THEY SHALL BE MADE SIMILAR TO THE STANDARD DETAILS. OBTAIN APPROVAL OF ENGINEER IN WRITING FOR SIMILAR CONDITIONS PRIOR TO CONSTRUCTION.

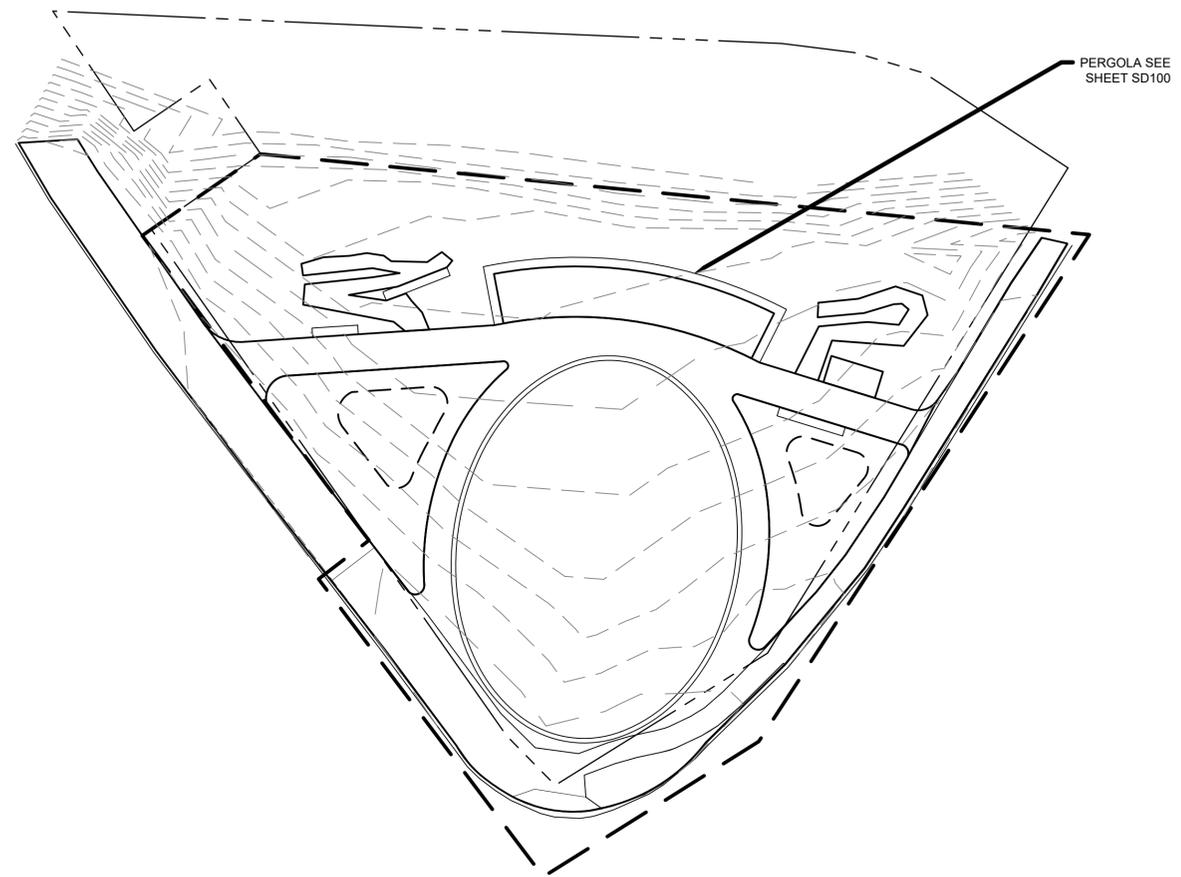
MATERIAL
DESIGN STRENGTHS:
 CONCRETE 4000 PSI @ 28 DAYS
 REINFORCEMENT ASTM A615 GRADE 60
 CONCRETE FILL 3,000 PSI @ 28 DAYS
STEEL:
 W-SHAPE ASTM A992 GRADE 50
 HSS-SHAPE ASTM A500 GRADE B
 OTHER SHAPES ASTM A36

CONSTRUCTION NOTES:
EXCAVATION:
 CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY SHEETING AND BRACING NECESSARY TO PROTECT PERSONNEL AND ADJACENT.

CONCRETE:
 A. LAP SPLICES AND 90 DEGREE HOOKS SHALL BE AS INDICATED BELOW

BAR SCHEDULE			
BAR SIZE	LAP	TOP*	90° HOOK
#3	19"	24"	6"
#4	25"	32"	8"
#5	31"	40"	10"
#6	37"	48"	12"
#7	47"	61"	15"
#8	53"	69"	19"

* DENOTES TOP BAR SPLICES ARE HORIZONTAL REINFORCEMENT WITH 12" OR MORE OF CONCRETE CAST BELOW SPLICE.
 B. REINFORCING BARS SHALL HAVE THE FOLLOWING CONCRETE COVER UNO:
 a. CONCRETE CAST AGAINST EARTH 3"
 b. ALL OTHER CONCRETE 2"
 C. ALL DOWELS THROUGH FORMED SURFACES SHALL BE THREADED OR EQUIPPED WITH ADEQUATE LAP SPLICE.
 D. CONCRETE SHALL BE PLACED WITHOUT CONSTRUCTION JOINTS EXCEPT WHERE SPECIFICALLY SHOWN ON THE DRAWINGS OR AS APPROVED BY THE EOR.
 E. BEVEL ALL EXPOSED CONCRETE 3/4" X 3/4" UNO.



OVERALL PLAN
 1" = 20'-0"

SPECIAL INSPECTIONS

ATTEND A PRE-CONSTRUCTION MEETING TO COORDINATE AND CLARIFY SPECIAL INSPECTION AND TESTING PROCEDURES AND REQUIREMENTS.
 A. THE MEETING IS TO BE ATTENDED BY:
 1. OWNER
 2. ENGINEER OF RECORD OR REPRESENTATIVE
 3. AUTHORITY HAVING JURISDICTION OFFICIAL OR BUILDING INSPECTION
 4. TESTING AGENCY AND SPECIAL INSPECTORS
 5. GENERAL CONTRACTOR
 6. APPROPRIATE SUB-CONTRACTORS

SPECIAL INSPECTIONS:
 SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH CHAPTER 1 AND CHAPTER 17 OF THE IBC. PAYMENT FOR THESE INSPECTIONS IS NOT THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE FOR FULL ACCESS TO THE WORK BY THE SPECIAL INSPECTOR AND SHALL PROVIDE FOR THESE INSPECTIONS IN HIS CONSTRUCTION SCHEDULE IN ACCORDANCE WITH THE SPECIFICATIONS.

REQUIRED STRUCTURAL TESTS AND SPECIAL INSPECTIONS						
STRUCTURAL TESTING AND SPECIAL INSPECTIONS ARE IN ACCORDANCE OF IBC CHAPTER 17.						
DESCRIPTION	TESTING		INSPECTING		N/A	COMMENTS
	YES	NO	YES	NO		
1. STEEL CONSTRUCTION						
WELDING			*	*		UNLESS VISUAL FAILURE
DETAILS: BRACING, LOCATIONS, ETC.			*	*		
HIGH-STRENGTH BOLTING			*	*		
2. CONCRETE CONSTRUCTION						
CONCRETE	*		*			
REINFORCEMENT: SIZE AND SPACING			*	*		
BOLTS INSTALLED IN CONCRETE			*	*		
3. MASONRY CONSTRUCTION						
REINFORCEMENT: SIZE AND SPACING				*		
PRISMS				*		
DETAILS: GROUTING, LINTELS, ETC.				*		
4. WOOD CONSTRUCTION				*		
5. GRADING, EXCAVATION AND FILLING	*		*			
6. PILING, SHEET-PILING, AND PIERS				*		
7. SPRAY-APPLIED FIREPROOFING				*		
8. EXTERIOR INSULATION AND FINISH SYSTEM				*		
9. SPECIAL CASES				*		



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER ANDREW F. JUDD
DESIGNED BY J. MULVIHILL
CHECKED BY G. STEKOVIC
DRAWN BY G. STEKOVIC
PROJECT NUMBER 10268112

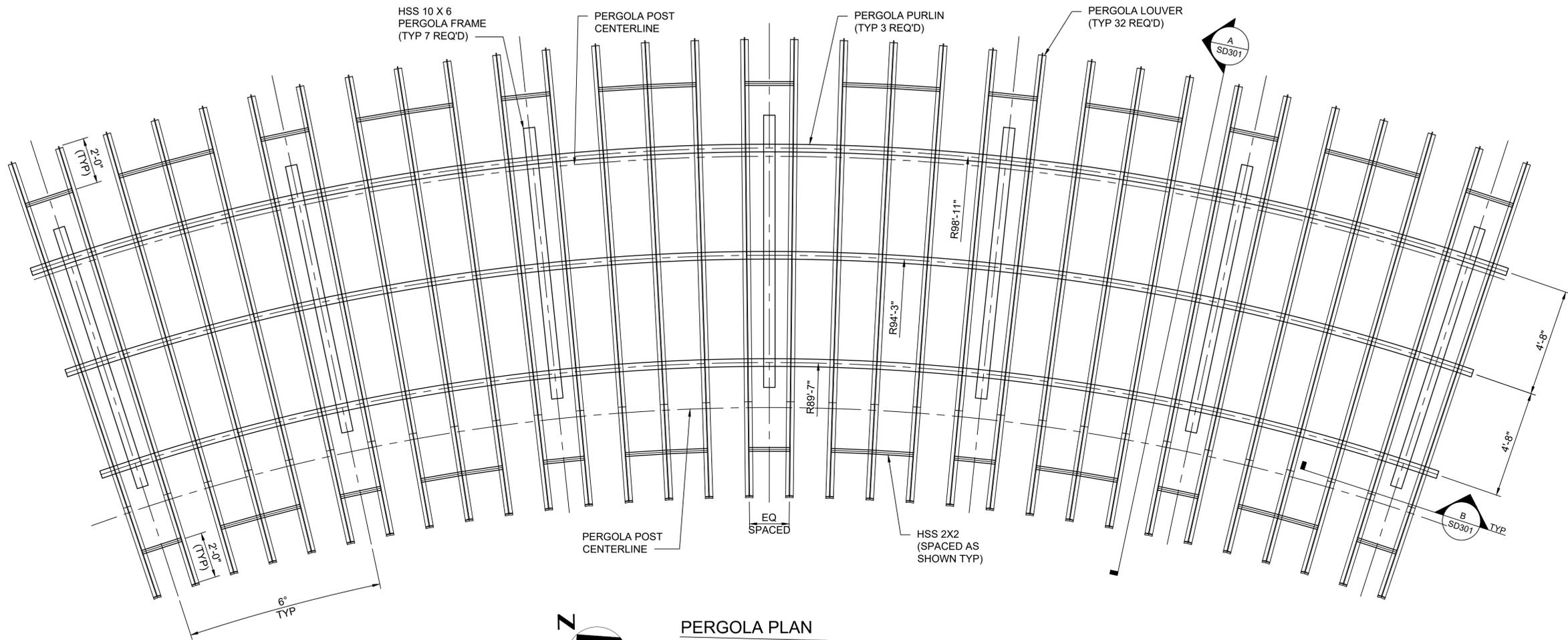
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 JEROME W. MULVIHILL, PE
 DATE XX/XX/XXXX LICENSE # XXXXX

415 BLAKE RD GATEWAY TO THE GREENWAY
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 MINNEHAHA CREEK WATERSHED DISTRICT
 415 BLAKE RD N
 HOPKINS, MN 55343

SITE PLAN AND STRUCTURAL NOTES

0 1" 2"
 FILENAME S001.DWG
 SCALE 1" = 40'
 SHEET S001

- GENERAL NOTES:**
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION.
 2. ENGINEER-OF-RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES FOUND PRIOR TO CONTINUING CONSTRUCTION.
 3. REFERENCE L SHEETS FOR PERGOLA FINISH.
 4. FOR MATERIAL TYPES REFER TO SHEET S001.



PERGOLA PLAN
SCALE: 3/8" = 1'-0"



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	ANDREW F. JUDD
DESIGNED BY	J. MULVIHILL
CHECKED BY	G. STEKOVIC
DRAWN BY	G. STEKOVIC
PROJECT NUMBER	10268112

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

JEROME W. MULVIHILL, PE
DATE XX/XX/XXXX LICENSE # XXXXX

415 BLAKE RD GATEWAY TO THE GREENWAY
(NOT FOR CONSTRUCTION)

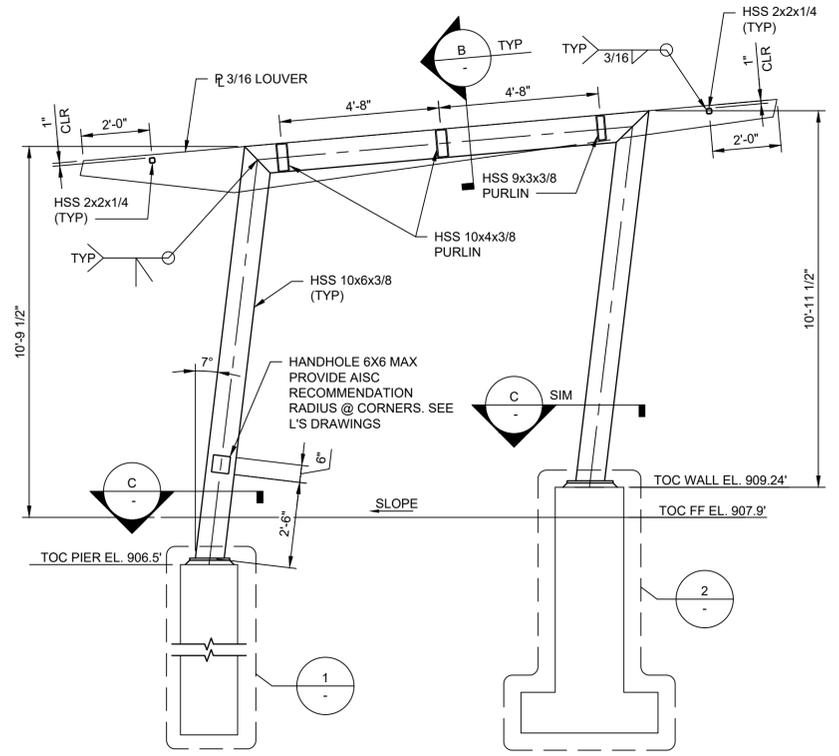
MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343

PERGOLA STRUCTURAL FRAMING PLAN

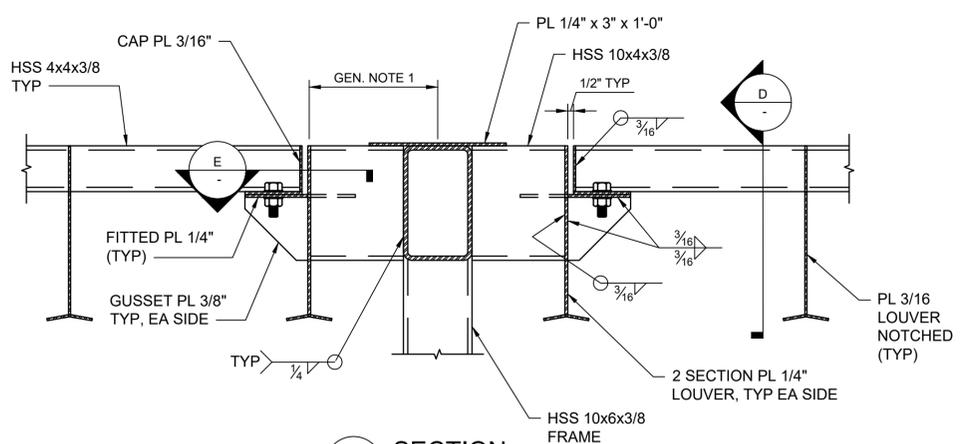
0 1" 2"

FILENAME | SD100.DWG
SCALE | AS SHOWN

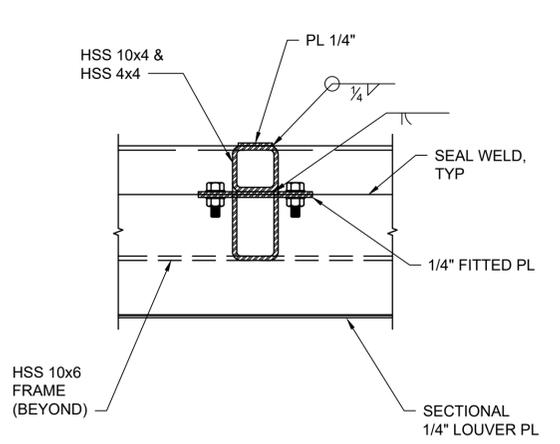
SHEET
SD100



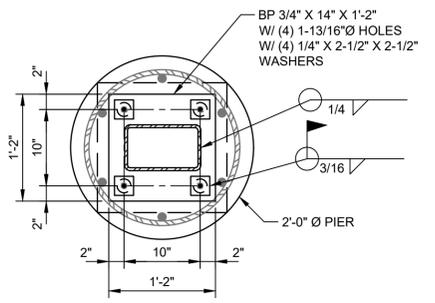
A SECTION
SD100
SCALE: 3/8" = 1'-0"



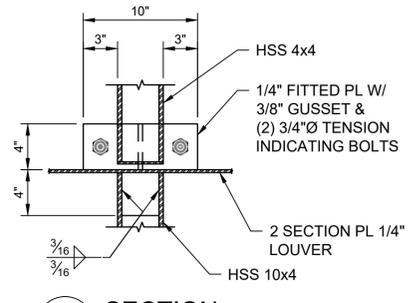
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SCALE: 1-1/2" = 1'-0"



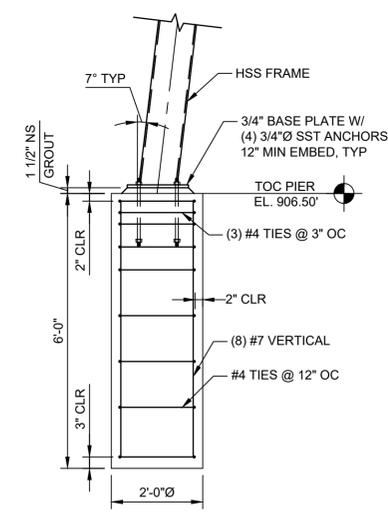
D SECTION
SCALE: 1-1/2" = 1'-0"



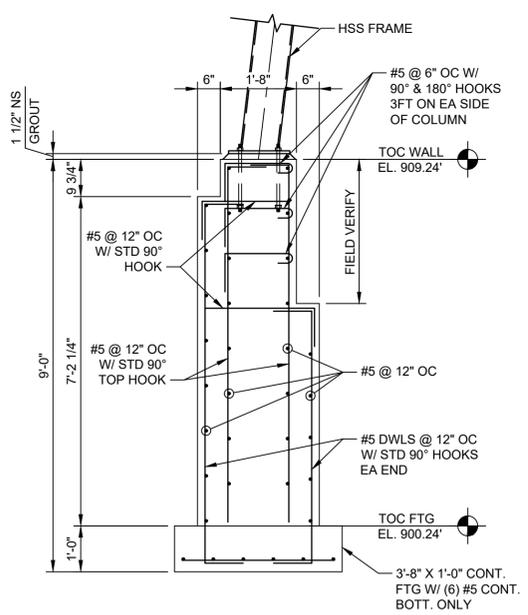
C SECTION
SCALE: 1-1/2" = 1'-0"



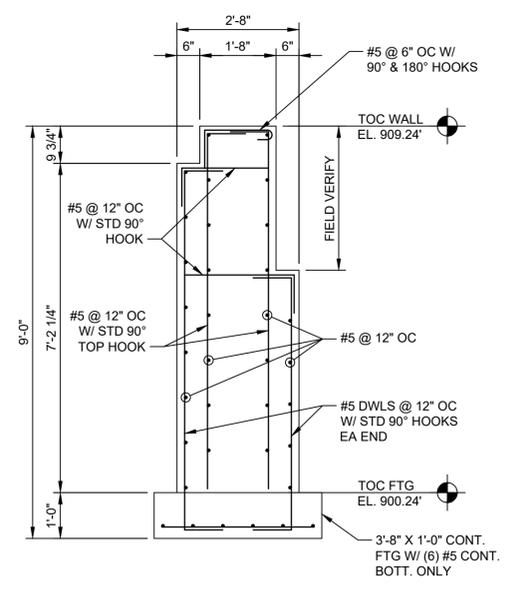
E SECTION
SCALE: 1-1/2" = 1'-0"



1 DETAIL
SCALE: 1/2" = 1'-0"



2 DETAIL
SCALE: 1/2" = 1'-0"



NOTE:
WALL REINFORCEMENT AT COLUMN/FRAME LOCATION

- GENERAL NOTES:**
- OFFSET OF FIRST LOUVER ON EA SIDE OF FRAME DEPENDS ON RADIUS OF PURLIN:
A. RADIUS 89'-7" = 11 1/4"
B. RADIUS 94'-3" = 11 7/8"
C. RADIUS 98'-11" = 1'-0 7/16"
 - ALL DIMENSIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
 - SHOULD ANY DISCREPANCIES BE FOUND, ENGINEER-OF-RECORD SHALL BE IMMEDIATELY NOTIFIED PRIOR TO CONTINUATION OF WORK.



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	ANDREW F. JUDD
DESIGNED BY	J. MULVIHILL
CHECKED BY	G. STEKOVIC
DRAWN BY	G. STEKOVIC
PROJECT NUMBER	10268112

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JEROME W. MULVIHILL, PE
DATE XX/XX/XXXX LICENSE # XXXXX

415 BLAKE RD GATEWAY TO THE GREENWAY
(NOT FOR CONSTRUCTION)

MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343

PERGOLA STRUCTURAL SECTIONS

0 1" 2"

FILENAME | SD301.DWG
SCALE | AS SHOWN

SHEET
SD301

ONE LINE, POWER AND LIGHTING SYMBOLOGY

SITE SYMBOLOGY

LOW VOLTAGE CIRCUIT BREAKER (CB). RATING AND NO. OF POLES AS SHOWN. WHEN SPECIFIC TYPE, OTHER THAN MCCB, IS REQUIRED, X INDICATES TYPE.

TYPES:
 MCCB - MOLDED CASE
 ICCB - INSULATED CASE
 LVP - LOW VOLTAGE POWER
 MCP - MOTOR CIRCUIT PROTECTOR (RATING PER CONNECTED LOAD)

TRIP UNIT:
 L - LONG TIME PICKUP
 S - SHORT TIME PICKUP
 I - INSTANTANEOUS PICKUP
 G - GROUND FAULT PICKUP
 A - ARC FLASH MAINTENANCE

LP100 208/120V 3Ø, 4W
 SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED

100 KVA
 NON-MOTOR LOAD WITH DESIGN KVA, KW, OR AMP

VOLTAGE TRANSFORMER (VT, PT, OR CPT)

CURRENT TRANSFORMER (CT)

UTILITY WATT-HOUR METER PER UTILITY REQUIREMENTS

GROUND

WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

CEILING/IN-GROUND UPLIGHT LUMINAIRE, LAMP TYPE AS SPECIFIED

POLE/STANCHION MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

CEILING/PENDANT MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

WALL MOUNTED LUMINAIRE, LAMP TYPE AS SPECIFIED

LIGHTING FIXTURE SUBSCRIPTS:
 X - INDICATES LUMINAIRE TYPE PER LUMINAIRE SCHEDULE
 Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD
 Z - INDICATES CONTROLLING SWITCH (IF REQUIRED)
 NL - NIGHT LIGHT UNSWITCHED

WALL SWITCH

SUBSCRIPTS:
 X - INDICATES TYPE
 NONE - SINGLE POLE
 2 - DOUBLE POLE
 3 - THREE-WAY
 4 - FOUR-WAY
 K - KEY SWITCH
 P - PILOT LIGHT
 L - LIGHTED HANDLE
 DM - DIMMING
 MC - MOMENTARY CONTACT
 T - TIMER

Y - INDICATES CONTROLLING SWITCH (IF REQUIRED)

PHOTOCELL

TIME CLOCK

LIGHTING CONTROL OCCUPANCY SENSOR, WALL MOUNTED, X INDICATES SPECIFIC TYPE AS SPECIFIED

PANELBOARD (LESS THAN 250V)

TWO RECEPTACLES IN 2-GANG BOX UNDER COMMON COVER PLATE

DUPLEX RECEPTACLE

SIMPLEX RECEPTACLE

CONDUIT TURNING UP

CONDUIT TURNING DOWN

HOMERUN TO PANEL
 SINGLE PHASE: 2#12, 1#12G IN 3/4" CONDUIT
 THREE PHASE: 3#12, 1#12G IN 3/4" CONDUIT
 UNLESS OTHERWISE NOTED, CONDUCTOR SIZE IS FOR ENTIRE CIRCUIT

CONDUIT CONNECTION TO EQUIPMENT

CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS; CONCEALED IN ARCHITECTURALLY FINISHED AREAS. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

CONDUIT RUN BETWEEN DEVICES CONCEALED IN NON-ARCHITECTURALLY FINISHED AREAS OR UNDER FLOOR SLAB. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

CIRCUIT HASH MARKS (WHEN INDICATED); LONG, SHORT, SINGLE DOT, AND DOUBLE DOT REPRESENT PHASE, NEUTRAL, EQUIPMENT GROUND, AND ISOLATED EQUIPMENT GROUND, RESPECTIVELY. #12 IN 3/4" CONDUIT UNLESS OTHERWISE INDICATED.

CIRCUIT CONTINUATION

CONDUIT STUBBED OUT AND CAPPED

GENERAL NOTES:

- THIS IS A STANDARD ELECTRICAL SYMBOLOGY SHEET. NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

POWER POLE

DOWNGUY

UNDERGROUND ELECTRICAL AND COMMUNICATIONS SYSTEMS PATHWAY

OVERHEAD ELECTRICAL AND COMMUNICATION SYSTEMS PATHWAY

CONTROL SYMBOLOGY

ELECTRICAL CONNECTION

NO ELECTRICAL CONNECTION

CONTROL/RELAY COIL; X INDICATES TYPE, Y INDICATES LOOP NO. WHEN USED

TYPES:
 CR - CONTROL RELAY
 DP - DEFINITE PURPOSE RELAY
 LC - LIGHTING CONTACTOR
 M - MOTOR STARTER

PC - PHOTOCELL
 TC - TIME CLOCK
 TR - TIMING RELAY

NORMALLY OPEN CONTACT (N.O.)

NORMALLY CLOSED CONTACT (N.C.)



ISSUE	DATE	DESCRIPTION

PROJECT NUMBER	10268112
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ANDREW KANER, PE

DATE XX/XX/XXXX LICENSE # XXXXX

415 BLAKE RD GATEWAY TO THE GREENWAY

(NOT FOR CONSTRUCTION)

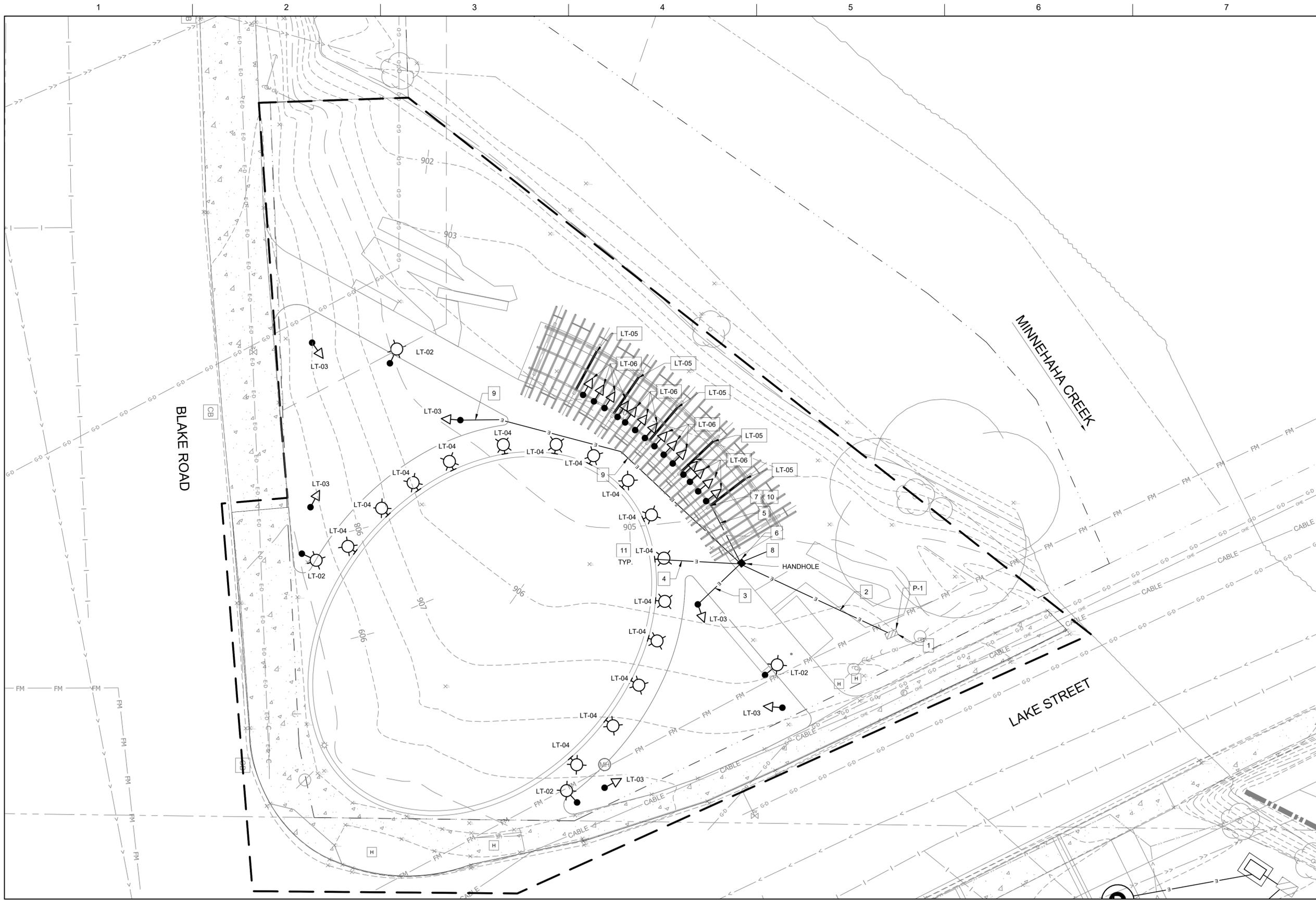
MINNEHAHA CREEK WATERSHED DISTRICT
 415 BLAKE RD N
 HOPKINS, MN 55343

ELECTRICAL LEGEND

0 1" 2"

FILENAME | E001.DWG
 SCALE | NA

SHEET
E001



GENERAL NOTES

1. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY. FIELD ADJUST CONDUIT ROUTING BASED ON FIELD CONDITIONS AND COORDINATION WITH OTHER EXISTING AND NEW UTILITIES, STRUCTURES, AND EQUIPMENT.
2. INSTALL ALL UNDERGROUND CONDUCTORS IN DIRECT BURIED CONDUIT. SEE DETAIL SHEET E602.

KEY NOTES

1. COORDINATE WITH XCEL ENERGY FOR METERED SUPPLY AND FINAL LOCATION.
2. PROVIDE 4 SETS 2#10, #10G IN 1" C TO HH-1.
3. PROVIDE 2#10, #10G IN 1" C, CIRCUIT ALL TYPE LT-03 & LT-04 IN SOUTH-EAST AREA SITE TOGETHER AND ROUTE TO P-1 VIA HH-1
4. PROVIDE 2#10, #10G IN 1" C, CIRCUIT ALL TYPE LT-04 TOGETHER AND ROUTE TO P-1 VIA HH-1
5. PROVIDE 2#10, #10G IN 1" C, CIRCUIT ALL TYPE LT-05 AND LT-06 TOGETHER AND ROUTE TO P-1 VIA HH-1
6. PROVIDE WATERPROOF SPLICES IN HANDHOLE AS REQUIRED. SIZE HANDHOLE PER NEC.
7. REFER TO LANDSCAPE DRAWING DETAIL SHEETS L540 SERIES. ROUTE LT-05 CIRCUIT CONDUCTORS IN CONDUIT UP THROUGH HSS POST FOUNDATION TO HANDHOLE IN POST. ROUTE CONDUCTORS IN LIQUIDTIGHT FLEXIBLE METAL CONDUIT TO TOP OF POST, PENETRATE POST AND CONTINUE TO LIGHT FIXTURE. FROM POST HANDHOLE, ROUTE CONDUCTORS IN CONDUIT DOWN THROUGH POST FOUNDATION AND CONTINUE TO THE NEXT POST.
8. ROUTE CONDUIT TO IRRIGATION CONTROLLER IF CONTROLLER IS REQUIRED. LOCATION SHOWN IS NOMINAL. COORDINATE WITH CONTRACTOR FOR FINAL LOCATION.
9. PROVIDE 2#10, #10G IN 1" C, CIRCUIT ALL TYPE LT-03 & LT-04 IN NORTHWEST SITE AREA TOGETHER AND ROUTE TO P-1 VIA HH-1
10. ROUTE LT-06 FIXTURE CIRCUIT CONDUCTORS IN LIQUID-TIGHT FLEXIBLE METAL CONDUIT UP THOUGH HSS POST FOUNDATION. EXIT AT TOP OF COLUMN AND ROUTE IN CONDUIT ALONG TOP OF PURLIN TO TYPE LT-06 FIXTURES. SEE SHEET L542.
11. COORDINATE RECESSED BOX MOUNTING AND CONDUIT WITHIN CONCRETE WALL. SEE DETAIL ON SHEET L521.

PROJECT MANAGER ANDREW F. JUDD

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415 BLAKE RD GATEWAY TO THE GREENWAY
(NOT FOR CONSTRUCTION)

ELECTRICAL SITE PLAN



MINNEHAHA CREEK
WATERSHED DISTRICT

ISSUE	DATE	DESCRIPTION

PROJECT NUMBER	10268112
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ANDREW KANER, PE
DATE XX/XX/XXXX LICENSE # XXXXX

MINNEHAHA CREEK WATERSHED DISTRICT
415 BLAKE RD N
HOPKINS, MN 55343



FILENAME | E401.DWG
SCALE | 1" = 10'

SHEET
E401

SITE AND LANDSCAPE NOTES

SITE PREPARATION NOTES

- CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.
- CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
- CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.
- CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION OPERATIONS. DAMAGE TO SAME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION BEGINS (MINIMUM 10' CLEARANCE).
- CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.
- UNDERGROUND UTILITIES SHALL BE INSTALLED SO THAT TRENCHES DO NOT CUT THROUGH ROOT SYSTEMS OF EXISTING TREES TO REMAIN.
- EXISTING CONTOURS, TRAILS, VEGETATION, CURB/GUTTER AND OTHER ELEMENTS ARE BASED UPON INFORMATION SUPPLIED TO THE LANDSCAPE ARCHITECT BY OTHERS. CONTRACTOR SHALL VERIFY DISCREPANCIES PRIOR TO CONSTRUCTION AND NOTIFY LANDSCAPE ARCHITECT OF SAME.
- HORIZONTAL AND VERTICAL ALIGNMENT OF PROPOSED WALKS, TRAILS OR ROADWAYS ARE SUBJECT TO FIELD ADJUSTMENT REQUIRED TO CONFORM TO LOCALIZED TOPOGRAPHIC CONDITIONS AND TO MINIMIZE TREE REMOVAL AND GRADING. CHANGES IN ALIGNMENT AND GRADES MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO IMPLEMENTATION.
- CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE OF NEWLY INSTALLED MATERIALS UNTIL TIME OF SUBSTANTIAL COMPLETION. REPAIR OF ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO SUBSTANTIAL COMPLETION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EXISTING TREES OR SIGNIFICANT SHRUB MASSINGS FOUND ON SITE SHALL BE PROTECTED AND SAVED UNLESS NOTED TO BE REMOVED OR ARE LOCATED IN AN AREA TO BE GRADED. QUESTIONS REGARDING EXISTING PLANT MATERIAL SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL.
- EXISTING TREES TO REMAIN, UPON DIRECTION OF LANDSCAPE ARCHITECT, SHALL BE FERTILIZED AND PRUNED TO REMOVE DEAD WOOD, DAMAGED AND RUBBING BRANCHES.
- CONTRACTOR SHALL PREPARE AND SUBMIT A WRITTEN REQUEST FOR THE SUBSTANTIAL COMPLETION INSPECTION OF LANDSCAPE AND SITE IMPROVEMENTS PRIOR TO SUBMITTING FINAL PAY REQUEST.
- CONTRACTOR SHALL PREPARE AND SUBMIT REPRODUCIBLE AS-BUILT DRAWING(S) OF LANDSCAPE INSTALLATION, IRRIGATION AND SITE IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION INSTALLATION AND PRIOR TO SUBSTANTIAL COMPLETION.
- SYMBOLS ON PLAN DRAWING TAKE PRECEDENCE OVER SCHEDULES IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS AND DETAILS TAKE PRECEDENCE OVER NOTES.

SOIL TESTING

- CONTRACTOR SHALL OBTAIN A SOIL SAMPLE(S) FROM PROJECT SITE AND/OR SALVAGED TOPSOIL STOCKPILE AND SUBMIT TO INDEPENDENT TESTING AGENCY. ANALYSIS AND RECOMMENDATIONS FOR (INCLUDING BUT NOT LIMITED TO) MACRONUTRIENTS, MICRONUTRIENTS, COMPOSITION AND SOLUBLE SALTS SHALL BE PROVIDED.
- CONTRACTOR SHALL PROVIDE TWO SERIES OF TESTS: FIRST, PRIOR

TO CONSTRUCTION; SECOND, AFTER SOIL IS AMENDED, PRIOR TO PLANTING.

- CONTRACTOR SHALL PROVIDE ANALYSIS RESULTS AND RECOMMENDATIONS TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO SOIL AMENDMENT AND PRIOR TO PLANTING.

GRADING

- GRADING LIMITS ARE DEFINED AS THE JUNCTURE OF PROPOSED GRADE WITH EXISTING GRADE UNLESS NOTED OTHERWISE.
- GRADING LIMITS AND LIMITS OF WORK SHOWN ON PLAN ARE ONLY APPROXIMATE AND MAY BE ADJUSTED IN FIELD BY LANDSCAPE ARCHITECT. WORK OUTSIDE OF THESE LIMITS WILL BE DONE AT CONTRACTORS EXPENSE UNLESS DIRECTED BY LANDSCAPE ARCHITECT OR OWNER IN WRITING.
- FILL/CUT AS NECESSARY TO PROVIDE A 1% MINIMUM GRADE AWAY FROM PERGOLA WITHIN LIMITS OF CONSTRUCTION.
- SALVAGE TOPSOIL FROM THE EARTHWORK AREAS AS APPROPRIATE OR AS INDICATED ON PLANS AND STOCKPILE FOR REUSE.
- MAINTAIN A UNIFORM GRADE BETWEEN CONTOURS IN AREAS TO BE GRADED UNLESS NOTED OTHERWISE.
- ELEVATIONS, IF SHOWN ARE FINISHED ELEVATIONS. SPOT ELEVATIONS TAKE PRECEDENCE OVER CONTOURS.
- ADD EROSION CONTROL MEASURES IF GRADES GREATER THAN 3:1 OR IF CONDITIONS WARRANT. REFER TO SPECIFICATIONS FOR EROSION CONTROL.
- CONTRACTOR SHALL CONTACT PUBLIC UTILITIES FOR LOCATION OF UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE IF DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROVIDE PROPER EROSION CONTROL MEASURES AS REQUIRED TO ENSURE THAT EROSION IS KEPT TO AN ABSOLUTE MINIMUM.
- PROVIDE TEMPORARY COVERING FOR CATCH BASINS AND MAN HOLES UNTIL FINISHED GRADING IS COMPLETE.
- CONTRACTOR SHALL CONSTRUCT DRAINAGE BASINS AS NEEDED.
- PERIMETER SILT FENCE AND ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO CONSTRUCTION. REFER TO STATE SPECIFICATIONS FOR AGGREGATE BASE AND SILT FENCE.
- CONTRACTOR SHALL INSTALL CATCH BASIN EROSION CONTROL MEASURES PER LOCAL POLLUTION CONTROL AGENCY AND SPECIFICATIONS.
- WITHIN TWO WEEKS OF FINISHED SITE GRADING, DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, MULCH OR ROCK BASE.
- CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF ACCUMULATED SILT IN FRONT OF SILT FENCES AND EXCESS SEDIMENT IN PROPOSED CATCH BASINS, FOR THE DURATION OF CONSTRUCTION.
- CONTRACTOR SHALL REMOVE EROSION CONTROL MEASURES AFTER VEGETATION IS ESTABLISHED AND DISPOSE OF OFF SITE.
- CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN PLANTING AREAS.

PLANTING

- SPRING PLANT MATERIAL INSTALLATION IS FROM APRIL 15 TO JUNE 15.
- FALL CONIFEROUS PLANTING IS ACCEPTABLE FROM AUGUST 21 TO SEPTEMBER 30.
- FALL DECIDUOUS PLANTING IS ACCEPTABLE FROM AUGUST 15 UNTIL NOVEMBER 15.
- ADJUSTMENTS TO PLANTING DATES MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
- STAKE PROPOSED PLANTING LOCATIONS PER PLAN FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALL.
- PLANT MATERIAL SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1.

UNLESS NOTED OTHERWISE, DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED HEIGHT. ORNAMENTAL TREES SHALL HAVE NO 'V' CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' FEET ABOVE THE ROOT BALL. STREET AND BOULEVARD TREES SHALL BEGIN BRANCHING NO LOWER THAN 6' ABOVE PAVED SURFACE.

- INSTALL PLANT MATERIAL AFTER FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- INSTALL PLANT MATERIALS PER PLANTING DETAILS.
- SUBSTITUTION REQUESTS FOR PLANT MATERIAL TYPE & SIZE SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR CONSIDERATION PRIOR TO BIDDING. SUBSTITUTIONS AFTER BIDDING MUST BE APPROVED BY LANDSCAPE ARCHITECT AND ARE SUBJECT TO CONTRACT ADJUSTMENTS.
- ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. LANDSCAPE ARCHITECT MUST BE NOTIFIED PRIOR TO ADJUSTMENT OF PLANTS.
- FERTILIZE PLANT MATERIALS IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS.
- INSTALL 18" DEPTH OF PLANTING SOIL IN AREAS RECEIVING GROUND COVER, PERENNIALS, AND ANNUALS. PLANTING SOIL SHALL CONSIST OF MnDOT 3877-B MODIFIED TO CONTAIN A MAXIMUM OF 30% SAND, A PH OF 7.1 MAX, OR AS OTHERWISE SPECIFIED IN THE PROJECT SPECIFICATIONS MANUAL.
- TREE WRAPPING MATERIAL SHALL BE PAPER APPLIED FROM TRUNK FLARE TO FIRST BRANCH. WRAP SMOOTH-BARKED DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO DECEMBER 1 AND REMOVE WRAPPING AFTER MAY 1.

MULCHING

- INSTALL 4" DEEP FINELY SHREDDED HARDWOOD MULCH RINGS AT CONIFEROUS & DECIDUOUS TREES WITH NO MULCH IN DIRECT CONTACT WITH TREE TRUNK. WHERE TREES ARE PLANTED IN NATURAL RIPARIAN AREA, INSTALL MULCH RINGS.
- INSTALL 3" DEEP FINELY SHREDDED HARDWOOD MULCH RINGS AT SHRUB PLANTING AREAS WITH NO MULCH IN DIRECT CONTACT WITH SHRUB STEMS. WHERE MASSED SHRUBS ARE PLANTED IN NATURALIZED/SEEDED AREAS, MULCH AS A CONTINUOUS MASS.
- INSTALL 3" DEEP FINELY SHREDDED MULCH IN PERENNIAL PLANTING BEDS. REMOVE ALL MULCH FROM STEMS OF PERENNIALS; PLANT STEMS SHOULD NOT BE IN DIRECT CONTACT WITH MULCH.
- WHERE PLUGS ARE PLANTED INTO SEEDED AREAS, NO SHREDDED HARDWOOD MULCH IS REQUIRED.

WATERING

- PLANTED MATERIALS SHALL BE WATERED BY TEMPORARY MEANS UNTIL PLANTS ARE ESTABLISHED.
- TEMPORARY WATERING MEANS, METHODS, AND SCHEDULING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. REMOVE TEMPORARY WATERING EQUIPMENT UPON PLANT ESTABLISHMENT.
- PROVIDE AND FILL WATERING BAGS FOR TREE PLANTINGS.

WARRANTY

- WARRANTY NEW PLANT MATERIAL THROUGH THREE CALENDAR YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.
- PROVIDE ESTABLISHMENT MAINTENANCE (3 YEARS), MAINTENANCE REPORTING, AND WARRANTY TO NATIVE SEEDING AREAS. REFER TO SPECIFICATIONS.

IRRIGATION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN IRRIGATION LAYOUT PLAN AND SPECIFICATION THAT MEETS THE REQUIREMENTS OF THE PROVIDED PERFORMANCE SPECIFICATION AS PART OF THE SCOPE OF WORK. SUBMIT LAYOUT PLAN AND SPECIFICATIONS FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO ORDER AND/OR CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SODDED/SEEDED AND PLANTED AREAS ARE IRRIGATED PROPERLY, INCLUDING THOSE AREAS DIRECTLY AROUND AND ABUTTING PERGOLA FOUNDATION.
- CONTRACTOR SHALL FIELD VERIFY WATER SUPPLY, VOLUME, PRESSURE AND LOCATION FOR SYSTEM TAP PRIOR TO SYSTEM DESIGN.
- CONTRACTOR SHALL CONFIRM COMPLETE LIMITS OF IRRIGATION WITH LANDSCAPE ARCHITECT PRIOR TO SUPPLYING SHOP DRAWINGS.
- CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR INSPECTION AND APPROVAL OF AREAS RECEIVING DRIP IRRIGATION PRIOR TO INSTALLATION OF MULCH.
- CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH AS-BUILT DRAWINGS, DETAILED SYSTEM OPERATION INSTRUCTIONS AND AN IRRIGATION SCHEDULE APPROPRIATE TO THE PROJECT SITE CONDITIONS AND PLANTED MATERIAL GROWTH REQUIREMENTS.

PROJECT MANAGER ANDREW F. JUDD

ISSUE	DATE	DESCRIPTION
C	03/28/2023	100% DESIGN
B	09/14/2022	90% DESIGN
A	06/13/2022	PFA GRANT PACKAGE

PROJECT NUMBER	10268112
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DATE XX/XX/XXXX LICENSE # 43941

415 BLAKE RD GATEWAY TO THE GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

LANDSCAPE GENERAL NOTES



FILENAME
SCALE N/A

SHEET
L000

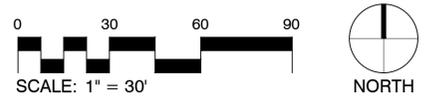
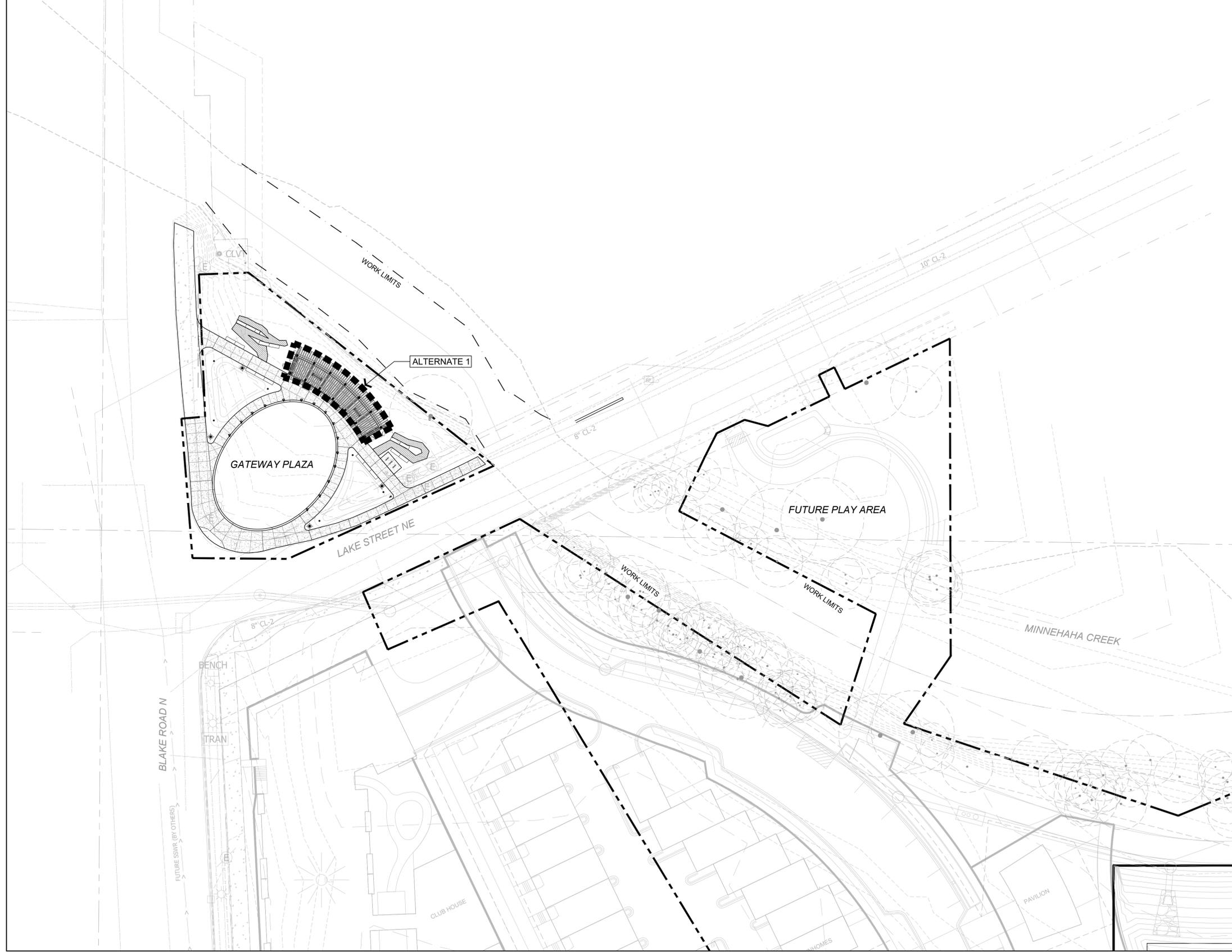


MINNEHAHA CREEK
WATERSHED DISTRICT



DF/ DAMON FARBER
LANDSCAPE ARCHITECTS
401 North 2nd Avenue, Suite 410
Minneapolis, MN 55401 p. 612.332.7522

CONSTRUCTION BID ALTERNATES				
#	DESCRIPTION	BASE BID	ALTERNATE BID	SHEET REFERENCE
1	P-12 PAVING BELOW PERGOLA	ENGRAVED GRANITE PAVERS (PAVING TYPE 12)	SAND BLASTED DECORATIVE CIP CONCRETE (PAVING TYPE 07 W/ SANDBLAST FINISH)	L011, L214, L543, L544



PROJECT MANAGER ANDREW F. JUDD

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MINNEHAHA CREEK WATERSHED DISTRICT
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HOPKINS, MN 55343

SITE ORIENTATION PLAN AND ALTERNATES SUMMARY

0 1" 2" FILENAME SCALE AS SHOWN

SHEET L001



MINNEHAHA CREEK WATERSHED DISTRICT



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C	03/28/2023	100% DESIGN
B	09/14/2022	90% DESIGN
A	06/13/2022	PFA GRANT PACKAGE

PROJECT NUMBER	10268112
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TREE PRESERVATION SCHEDULE

CODE	DESCRIPTION	SPECIES	CAL. / SIZE
T-240	PRESERVE	POPULUS DELTOIDES	30 DBH
T-242	PRESERVE	ULMUS AMERICANA	10 DBH

GENERAL NOTES

- TREE REMOVALS SUBJECT TO MNDNR BAT HIBERNACULA/ROOST AND OAK WILT REMOVAL TIMEFRAMES. **OWNER TO COMPLETE ALL WINTER TREE REMOVALS: ON FROZEN GROUND TO PREVENT DISEASE, ROOT DAMAGE, AND HABITAT DAMAGE. DO NOT REMOVE TREES WITHIN THE FOLLOWING TIME FRAMES:**
 -JUNE 1- JULY 31 (NLEB REMOVAL RESTRICTION WINDOW), OR;
 -APRIL 1- JULY 31 (OAK WILT RESTRICTION WINDOW)
- CONTRACTOR MAY ELECT TO MULCH (DOUBLE SHRED) & STOCKPILE ON SITE MULCHED LIMBS & BRANCHES SALVAGED FROM TREE REMOVALS. SALVAGED MULCH APPROVED FOR USE IN NATURAL AREAS AROUND TREE AND SHRUB PLANTINGS.
- REFER TO TREE PROTECTION PLANS AND DETAILS FOR TREE PROTECTION MEASURES & LOCATIONS.



**MINNEHAHA CREEK
WATERSHED DISTRICT**



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415 BLAKE RD GATEWAY TO THE GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT
 325 BLAKE RD
 HOPKINS, MN 55343

TREE PROTECTION SCHEDULE



FILENAME
 SCALE N/A

SHEET
L005

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONT.	DETAIL
TREES						
	LL	2	LARIX LARICINA TAMARACK	6' HT.	B&B	
DECIDUOUS TREES						
	BN	5	BETULA NIGRA 'CULLY' TM HERITAGE RIVER BIRCH	8' HT. MULTI-STEM	B&B	
	PT2	3	POPULUS TREMULOIDES 'NE ARB' PRAIRIE GOLD ASPEN	2.5" CAL.	B&B	
	QH	1	QUERCUS X 'HERITAGE' HERITAGE ENGLISH OAK	2.5" CAL.	B&B	

SHRUBS						
	CM	6	CORNUS RACEMOSA 'MUSZAM'	MUSKINGUM® GRAY DOGWOOD	#2	CONT.
	RG	150	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	#5	CONT.
	RT	12	RHUS TYPHINA	STAGHORN SUMAC	#5	CONT.
	SJ	11	SALIX CANDIDA 'JEFBERG' TM	ICEBERG ALLEY SAGELEAF WILLOW	#2	CONT.
	SP	10	SALIX DISCOLOR	PUSSY WILLOW	#5	
	VB	6	VIBURNUM TRILOBUM 'BAILEY COMPACT'	BAILEY'S COMPACT AMERICAN CRANBERRY BUSH	#5	CONT.

PERENNIALS						
	AY	179	ACHILLEA X 'MOONSHINE'	MOONSHINE YARROW	#1	CONT.
	BP	21	BAPTISIA AUSTRALIS	BLUE WILD INDIGO	#1	CONT.
	HA	68	HELENIUM AUTUMNALE SALUD YELLOW	SNEEZEWEED	#1	CONT.
	SG	62	SOLIDAGO SPECIOSA 'LITTLE MELON'	SHOWY GOLDENROD	#1	CONT.
	ZA	92	ZIZIA AUREA	GOLDEN ALEXANDER	#1	CONT.



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415 BLAKE RD GATEWAY TO THE GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

TREE & SHRUB PLANTING SCHEDULE



SHEET
L020

UNDERSTORY PLANTING SCHEDULE								
SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.	SPACING	REMARKS
SHRUB AREAS								
		3,312 SF	ENTRY FEATURE PLANTING NATIVE GRASS MASSES W/ INTERSPERSED SEASONAL NATIVE FORB FORMAL PLANTING					NATIVE GRASS MASSES W/ INTERSPERSED SEASONAL NATIVE FORB FORMAL PLANTING
	AT	241	ASCLEPIAS TUBEROSA DISTRIBUTE EVENLY THROUGHOUT PLANTING BED, LOCATE BETWEEN BLUESTEM	BUTTERFLY MILKWEED	4"	CONT	7% @ 12" o.c.	DISTRIBUTE EVENLY THROUGHOUT PLANTING BED, LOCATE BETWEEN SS
	SL	496	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 GAL	CONT	90% @ 30" o.c.	
		441 SF	PERENNIAL PLANTING COMPOSED PERENNIAL PLANTING- NATIVE SPECIES ENTRY AREA BEDS & PLAYGROUND					COMPOSED PERENNIAL PLANTING- NATIVE SPECIES ENTRY AREA BEDS & PLAYGROUND
	DA	40	DODECATHEON MEADIA 'APHRODITE'	GIANT SHOOTING STAR	4"	CONT	20% @ 18" o.c.	
	LG2	61	LIATRIS PYCNOSTACHYA	GAYFEATHER	4"	CONT	30% @ 18" o.c.	
	SL2	57	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	#1	CONT	50% @ 24" o.c.	
		61 SF	WET MEADOW ENHANCEMENT PLANTINGS					
	CEF	5	CORNUS SERICEA 'ARCTIC FIRE' MULCH IN MASS	ARCTIC FIRE RED TWIG DOGWOOD	2 GAL	CONT	50% @ 30" o.c.	MULCH IN MASS
	IVE	8	IRIS VERSICOLOR PLANT INTO SEEDED AREA RAIN GARDEN PLANTING	BLUE FLAG	1 GAL	CONT	50% @ 24" o.c.	PLANT INTO SEEDED AREA
		2,205 SF	LAYOUT TO BE PROVIDED IN FIELD BY LANDSCAPE ARCHITECT					LAYOUT TO BE PROVIDED IN FIELD BY LANDSCAPE ARCHITECT
	AP	153	ASTER NOVAE-ANGLIAE 'PURPLE DOME'	PURPLE DOME NEW ENGLAND ASTER	1 GAL	CONT	15% @ 18" o.c.	
	CV	172	CAREX VULPINOIDEA	FOX SEDGE	1 GAL	CONT	30% @ 24" o.c.	
	CA5	7	CORNUS SERICEA 'ALLEMANS COMPACT'	DWARF RED TWIG DOGWOOD	5 GAL	CONT	5% @ 48" o.c.	
	LC	37	LOBELIA CARDINALIS	CARDINAL FLOWER	1 GAL	CONT	10% @ 30" o.c.	
	LB	37	LOBELIA SIPHILTICA 'BIG BLUE'	BIG BLUE GREAT LOBELIA	1 GAL	CONT	10% @ 30" o.c.	
	MD2	57	MONARDA DIDYMA	BEE BALM	1 GAL	CONT	10% @ 24" o.c.	
	RG5	143	RUDBECKIA FULGIDA SULLIVANTII 'GOLDSTURM'	GOLDSTURM CONEFLOWER	1 GAL	CONT	25% @ 24" o.c.	
GROUND COVERS								
		1,361 SF	SEED MIX - WET MEADOW					MNDOT - 34-272 WET MEADOW SOUTH & WEST. SEEDED AT 18 LBS/ ACRE (INCLUDES COVER CROP AT 3.1 LBS/ ACRE + FORBS AND GRASS SEEDED AT 1.5X NORMAL SEEDING RATE
		3,476 SF	SEED MIX - MESIC PRAIRIE					BWSR PILOT MIX: LITTLE BLUESTEM URBAN PRAIRIE* SEEDED AT 48.41 LBS/ACRE (INCLUDES COVER CROP AT 37.88 LBS/ ACRE + FORBS AND GRASS SEEDED AT 1.5X NORMAL SEEDING RATE (10.53 LBS/ACRE))

NOTES:

- SEEDING RATES FOR MIXES USED IN STORMWATER BASIN & EMBANKMENT ARE INCREASED 1.5X TO SUPPORT SEED BANK CREATION.
- PROVIDE COVER CROP FOR NATIVE SEED MIXES.
-SPRING SEEDING: OATS
-FALL SEEDING (AUG 1- OCT 15): WINTER WHEAT
- PROVIDE EROSION CONTROL AT SEEDED AREAS IMMEDIATELY FOLLOWING SEEDING. FOR SLOPES LESS THAN 3:1, USE MNDOT CERTIFIED TYPE 3 MULCH WEED-FREE STRAW OR ORGANIC FIBER MATRIX (OFM) HYDRAULIC MULCH. FOR SLOPES 3:1 OR GREATER, USE MNDOT CATEGORY 20/25 EROSION CONTROL BLANKET.
- IN PLANTED AREAS WHERE SLOPES REACH 3:1 OR GREATER, PROVIDE CATEGORY 37 OPEN WEAVE COIR BLANKLET OVER EXPOSED SOIL. PLANT INTO BLANKET AND MULCH PER PLANTING DETAILS.
- WHERE SHRUBS ARE PLANTED INTO SEEDED AREAS IN GROUPS OF 2+, MULCH IN MASS.



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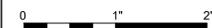
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HOPKINS, MN 55343

UNDERSTORY PLANTING SCHEDULE



FILENAME
SCALE N/A

SHEET
L021

NOTE:
EXISTING ON-SITE TOPSOIL INCLUDES STOCKPILED TOPSOIL OR IN-SITU TOPSOIL RETAINED IN PLACE.

SOIL PROFILE SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	SPEC #	COMPOSITION	DEPTH	SUBGRADE PREPARATION	IRRIGATION	NOTES
	SP-01A	SOIL TYPE 01A - NATIVE/TURF SEEDING SOIL SPEC 329113	56.7 CY	32 9113	EXISTING ON-SITE TOPSOIL AND/OR IMPORTED SOILS AMENDED TO MEET REQUIREMENTS OF MNDOT SPEC 3877.2A (TABLE 3877-1), "COMMON TOPSOIL BORROW".	4"-6"	SEE SPECIFICATIONS, TILL TO 4"	ESTABLISHMENT	EROSION CONTROL BLANKET, HYDROMULCH, OR TYPE 3 WEED FREE STRAW, PROVIDE ECB ON SLOPES 3:1 OR STEEPER. WHERE SEEDING OCCURS BELOW DRIPLINE OF TREE, HAND RAKE SOIL SURFACE ONLY, DO NOT TILL. IF AREA BELOW A DRIPLINE HAS BEEN COMPACTED BY CONSTRUCTION, PREPARE SOIL USING AIR SPADE.
	SP-01B	SOIL TYPE 01B - AIR SPADE PREP BELOW EXISTING TREES SPEC 329113, 015639	343 SF	32 9113	INSITU SOIL AMENDED WITH 1/2" LAYER OF COMPOST & BIOCHAR TOPDRESSING. LOOSEN SOIL AND INTEGRATE USING AIR SPADE	4"-6", 6"-8"	NONE - AIR SPADE TOPSOIL ONLY	ESTABLISHMENT	SOIL PREP & PLANTING BY HAND MEANS USING PNUMATIC AIR SPADE. PLANTINGS WILL REQUIRE FIELD ADJUSTMENT TO WORK AROUND EXISTING ROOTS. DO NOT SEVER/CUT ROOTS. FOR SEEDING ZONES, LOOSEN ONLY TOP 4". FOR PLANTING, LOOSEN SOIL TO DEPTH OF 6"-8" TO RECIEVE ROOT BALL DEPTH. APPLY MULCH/EROSION CONTROL BY PLANTING TYPE.
	SP-02A	SOIL TYPE 02A - 18" PLANTING SOIL PERENNIAL/SHRUB - IMPORT SPEC 329113	278 CY	32 9113	IMPORTED SOILS SHALL CONFORM TO A 60-40 MIXTURE OF 60% C33 SAND AND 40% CERTIFIED COMPOST OR MEET MNDOT SPEC 3877.2B (TABLE 3877-2). "LOAM TOPSOIL BORROW"	18"	SEE SPECIFICAITONS, TILL TO 4"	ESTABLISHMENT	3" THICK FINELY SHREDDED HARDWOOD MULCH. INSTALL MULCH OVER JUTE ECB ON SLOPES ON 3:1 OR STEEPER
	SP-02B	SOIL TYPE 02B - 18" PLANTING SOIL PERENNIAL/SHRUB - AMEND SPEC 329113	1,794 SF	32 9113	EXISTING ON-SITE TOPSOIL AMENDED TO MEET REQUIREMENTS OF MNDOT SPEC 3877.2B (TABLE 3877-2). "LOAM TOPSOIL BORROW"	18"	SEE SPECIFICATIONS, DEEP TILL	ESTABLISHMENT	3" THICK FINELY SHREDDED HARDWOOD MULCH. INSTALL MULCH OVER JUTE ECB ON SLOPES ON 3:1 OR STEEPER
	SP-03	SOIL TYPE 03 - 30" RAIN GARDEN PLANTING SOIL - IMPORT SPEC 329113	192 CY	32 9113	IMPORTED SOILS MEETING REQUIREMENTS OF MNDOT FILTER TOPSOIL BORROW - SEE CIVIL	30"	SEE SPECIFICATIONS	ESTABLISHMENT	3" THICK FINELY SHREDDED HARDWOOD MULCH. INSTALL MULCH OVER JUTE ECB ON SLOPES ON 3:1 OR STEEPER
	SP-04	SOIL TYPE 04 - 36" PLANTING SOIL - AMEND SPEC 329113	41.9 CY	32 9113	INSITU SOILS WITH AMENDED BACKFILL MEETING REQUIREMENTS OF MNDOT SPEC 3877.2B (TABLE 3877-2). "LOAM TOPSOIL BORROW", ENHANCED WITH 1/2" TOPDRESSING OF BIOCHAR. FOR TREE PLANTING IN SEEDED AREAS (AMEND PREPARED SOILS WITH ADDITIONAL COMPOST)	36"	SEE SPECIFICATIONS & TREE PLANTING DETAIL	ESTABLISHMENT/ WATER BAGS	3" THICK FINELY SHREDDED HARDWOOD MULCH. WHERE TREE PLANTING OCCURS WITHIN ROOT ZONE OF EXISTING TREES, HAND DIGGING WITH CAUTION AND ADJUST PLANTING AS NEEDED TO AVOID DAMAGE TO EXISTING ROOTS.

D
C
B
A



MINNEHAHA CREEK
WATERSHED DISTRICT



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PROJECT MANAGER ANDREW F. JUDD

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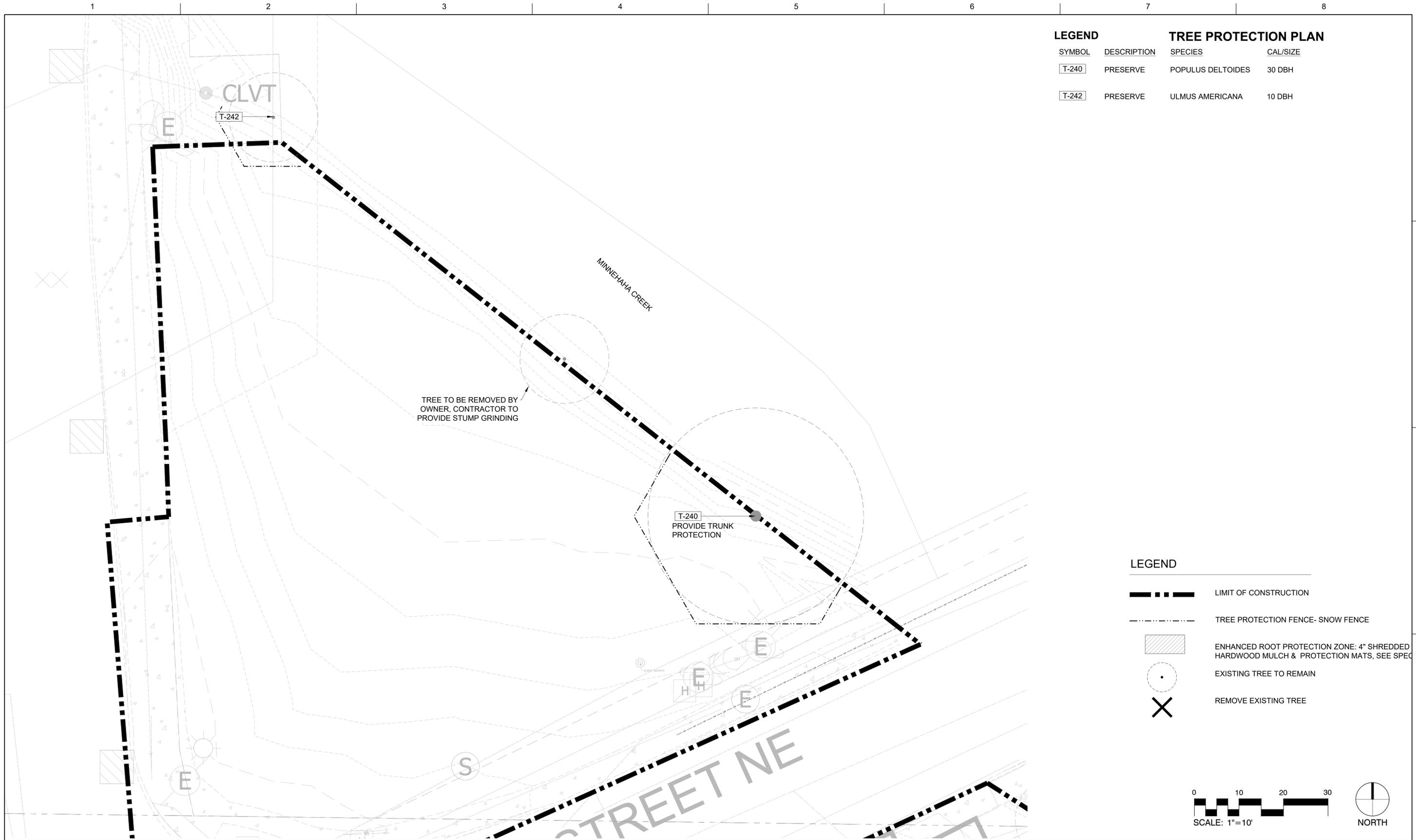
MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

SITE SOIL SCHEDULE



FILENAME
SCALE N/A

SHEET
L030



LEGEND		TREE PROTECTION PLAN	
SYMBOL	DESCRIPTION	SPECIES	CAL/SIZE
T-240	PRESERVE	POPULUS DELTOIDES	30 DBH
T-242	PRESERVE	ULMUS AMERICANA	10 DBH

LEGEND	
	LIMIT OF CONSTRUCTION
	TREE PROTECTION FENCE- SNOW FENCE
	ENHANCED ROOT PROTECTION ZONE: 4" SHREDED HARDWOOD MULCH & PROTECTION MATS, SEE SPEC
	EXISTING TREE TO REMAIN
	REMOVE EXISTING TREE



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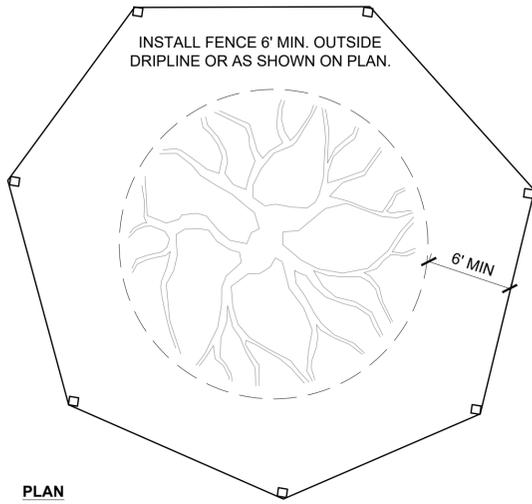
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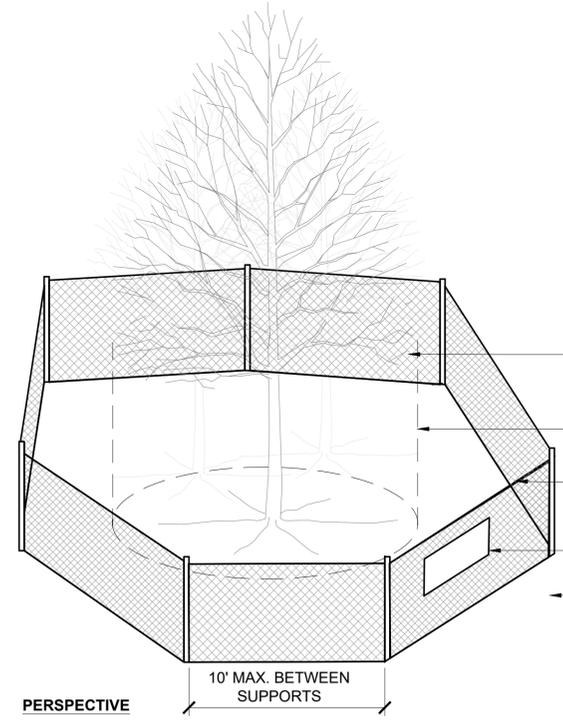
TREE PROTECTION PLAN

SCALE AS SHOWN

FILENAME _____ SHEET **L056**

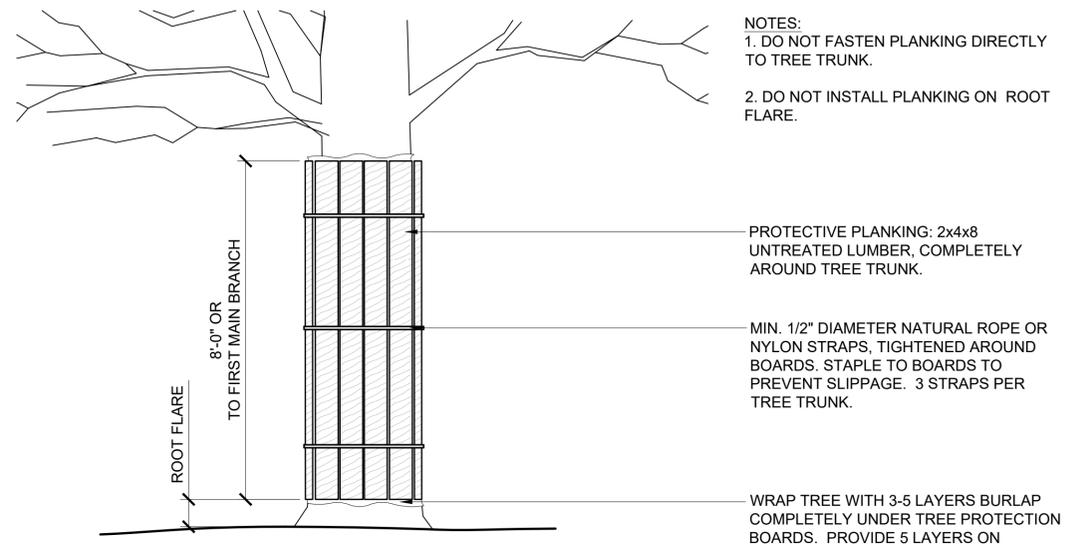


- NOTES:**
- TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO DEMOLITION IN LOCATIONS SHOWN ON PLANS AND SHALL BE MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD. TREE PROTECTION FENCING MAY BE RELOCATED AS NECESSARY WITH APPROVAL FROM THE LANDSCAPE ARCHITECT.
 - CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR PARK VEHICLES IN TREE PROTECTION ZONES. THE FENCE SHALL PREVENT TRAFFIC MOVEMENT AND THE PLACEMENT OF TEMPORARY FACILITIES, EQUIPMENT, STOCKPILES AND SUPPLIES FROM HARMING VEGETATION WITHIN THE LIMITS OF PROTECTION.
 - WHERE WORK IS TO OCCUR IN TREE PROTECTION ZONES, PLACE 4" DEPTH ORGANIC WOOD MULCH WITHIN TREE PROTECTION FENCING FOR MOISTURE PRESERVATION WHERE EXISTING GROUND COVER IS DISTURBED.
 - PLACE TREE PROTECTION WITHIN DRIPLINE WHEN FULL DRIPLINE PROTECTION IS NOT FEASIBLE DUE TO EXISTING PAVEMENT OR OTHER OBSTACLES.
 - WHERE TREE PROTECTION OCCURS WITHIN DRIPLINE OF TREE, WRAP TRUNK W/ 2X4X8 BOARDS SECURED TIGHTLY AROUND TRUNK WITH STRAP BINDINGS.
 - NO PRUNING SHALL BE PERFORMED EXCEPT WHERE APPROVED BY APPROVED LANDSCAPE ARCHITECT AND PERFORMED BY ISA CERTIFIED ARBORIST.
 - WHERE WORK OCCURS WITHIN DRIPLINE OF TREE, ROOT PRUNING TO BE PERFORMED BY ISA CERTIFIED ARBORIST PRIOR TO EXCAVATION OR TRENCHING.



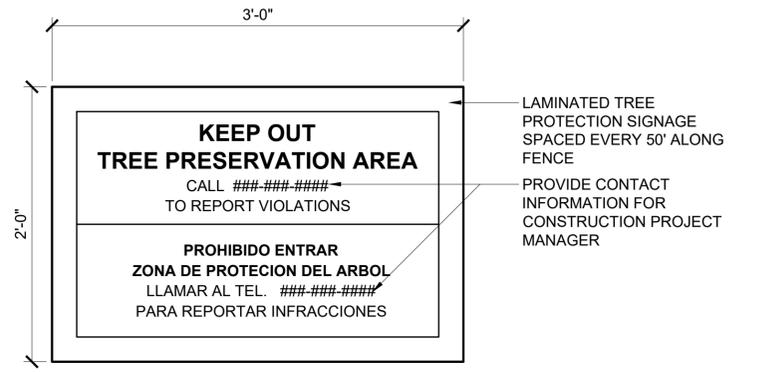
WHERE GROUP OF TREES IS TO BE PROTECTED, PROTECT TREES AS MASS WITHIN SINGLE FENCE. DO NOT PROTECT INDIVIDUALLY.

5 DETAIL - TREE PROTECTION
1 1/2" = 1'-0"

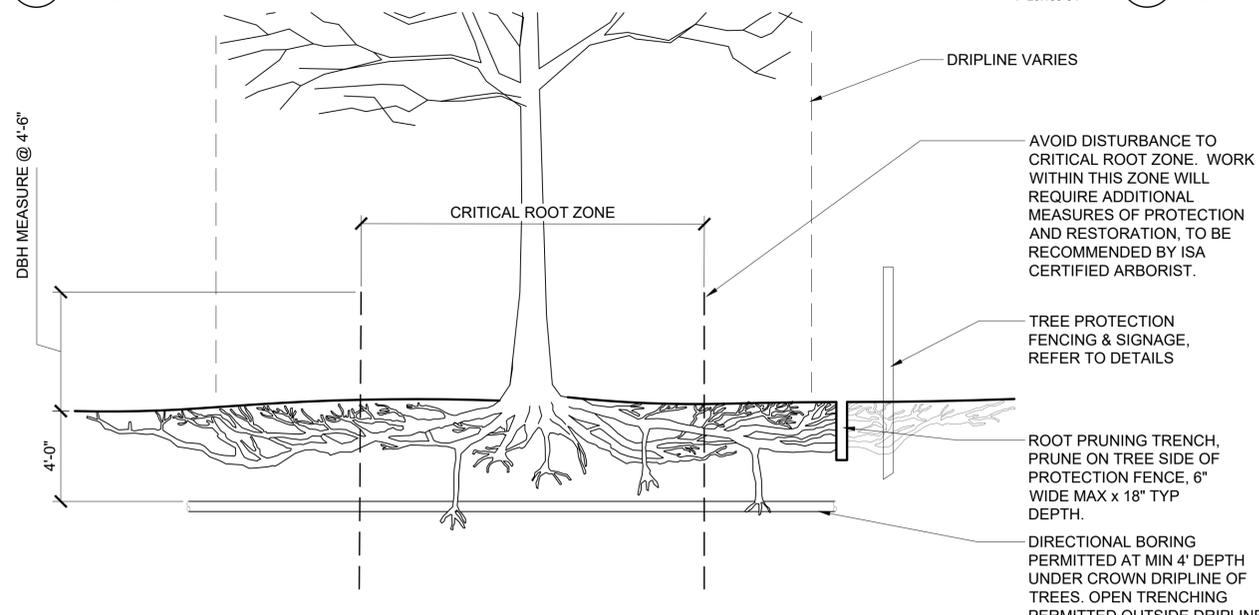


- NOTES:**
- DO NOT FASTEN PLANKING DIRECTLY TO TREE TRUNK.
 - DO NOT INSTALL PLANKING ON ROOT FLARE.

3 TRUNK PROTECTION
1" = 1'-0"



2 DETAIL - TREE PROTECTION SIGNAGE
1 1/2" = 1'-0"



- NOTES:**
- WHERE WORK IS TO OCCUR WITHIN THE DRIPLINE OF A TREE, CONTRACTOR TO USE AIR EXCAVATOR, DIRECTIONAL BORING, ROOT PRUNING, AND PRECAUTIONARY MEASURES AS DETAILED. ROOT PRUNING TO BE PERFORMED BY ISA CERTIFIED ARBORIST.
 - ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY PLOW TO A DEPTH OF 18". ROOTS OVER 1.5" DIA SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON SURFACE OF THE ROOT. DO NOT PAINT CUT ROOT ENDS.
 - FOR INSTALLATION OF UTILITIES WITHIN DRIPLINE OF TREE, LEAVE ROOTS IN TACT AND UTILIZE DIRECTIONAL BORING TO THREAD UTILITY LINES BENEATH.
 - ROOT PRUNING SHALL TAKE PLACE PRIOR TO CLEARING AND GRADING. STAKE LOCATIONS OF TREE PROTECTION PRIOR TO TRENCHING.
 - BACKFILL ROOT PRUNING TRENCHES WITH EXCAVATED SOIL AND MULCH. MARK LOCATIONS WITH STAKES FOR FUTURE REFERENCE. SILT FENCE MAY BE INSTALLED IN TRENCH PRIOR TO BACKFILLING AS LONG AS TRENCH IS NOT OPEN LONGER THAN 48HRS WITHOUT WATERING.
 - DO NOT PERFORM ROOT PRUNING WHEN SOIL IS WET OR WHEN TOP 1" OR MORE OF SOIL IS FROZEN.
 - AVOID DISTURBANCE WITHIN CRITICAL ROOT ZONE. CRITICAL ROOT ZONE SHALL BE MEASURED FROM TRUNK OUTWARD AND CALCULATED AS FOLLOWS:
 - DBH < 29.9" USE 1 FOOT RADIUS PER 1 INCH DBH, MIN 3' RADIUS
 - DBH > 30" USE 1.5 FOOT RADIUS PER 1 INCH DBH

1 ROOT PRUNING & DIRECTIONAL BORING DETAIL
1 1/2" = 1'-0"



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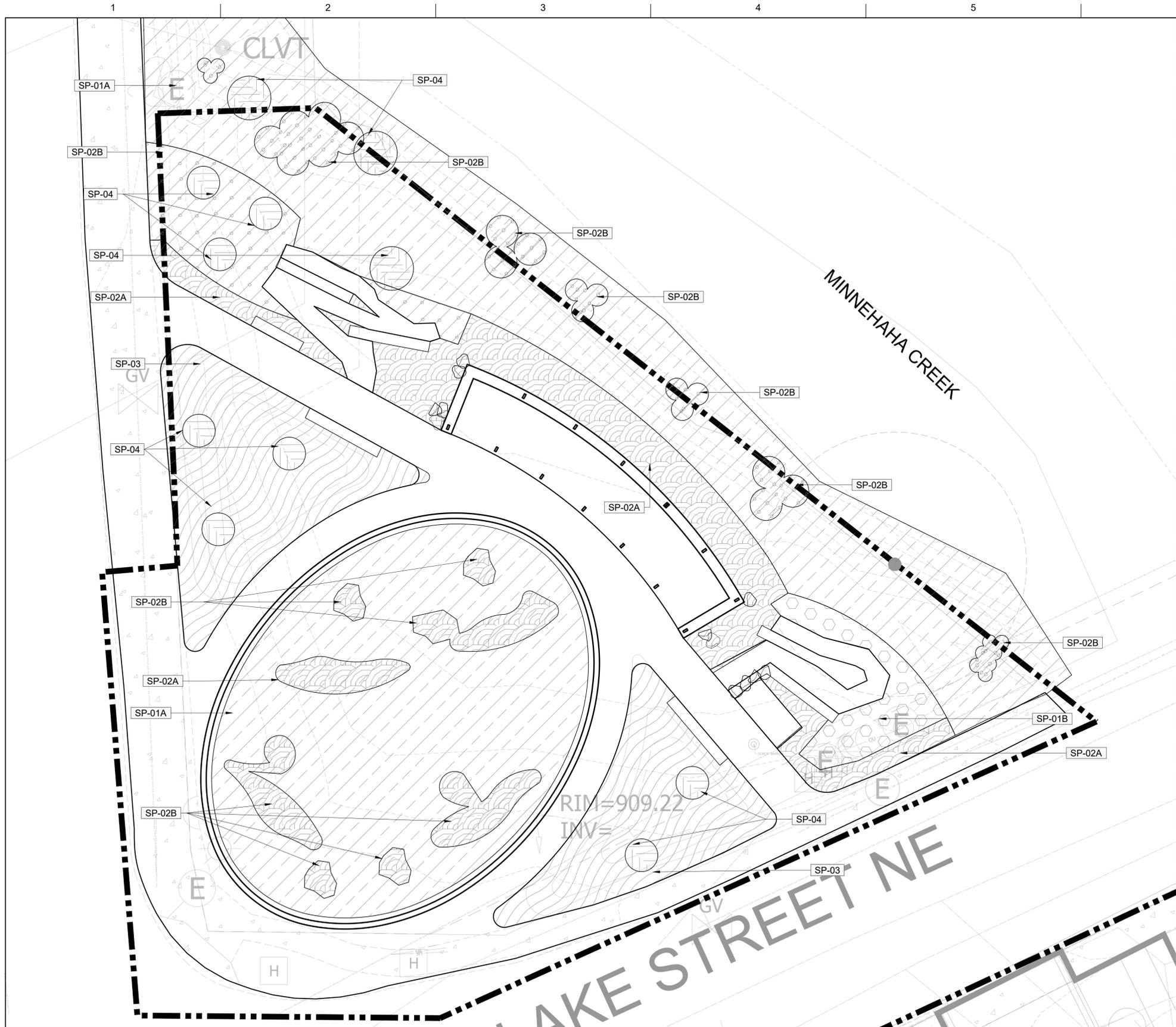
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TREE PROTECTION DETAILS



SHEET
L057



LEGEND - SOIL PLAN

SOIL PROFILE SCHEDULE

SYMBOL	CODE	DESCRIPTION
	SP-01A	SOIL TYPE 01A - NATIVE/TURF SEEDING SOIL SPEC 329113
	SP-01B	SOIL TYPE 01B - AIR SPADE PREP BELOW EXISTING TREES SPEC 329113, 015639
	SP-02A	SOIL TYPE 02A - 18" PLANTING SOIL PERENNIAL/SHRUB - IMPORT SPEC 329113
	SP-02B	SOIL TYPE 02B - 18" PLANTING SOIL PERENNIAL/SHRUB - AMEND SPEC 329113
	SP-03	SOIL TYPE 03 - 30" RAIN GARDEN PLANTING SOIL - IMPORT SPEC 329113
	SP-04	SOIL TYPE 04 - 36" PLANTING SOIL - AMEND SPEC 329113



ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

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JEFF MCMENIMEN, PLA
DATE XX/XX/XXXX LICENSE # 43941

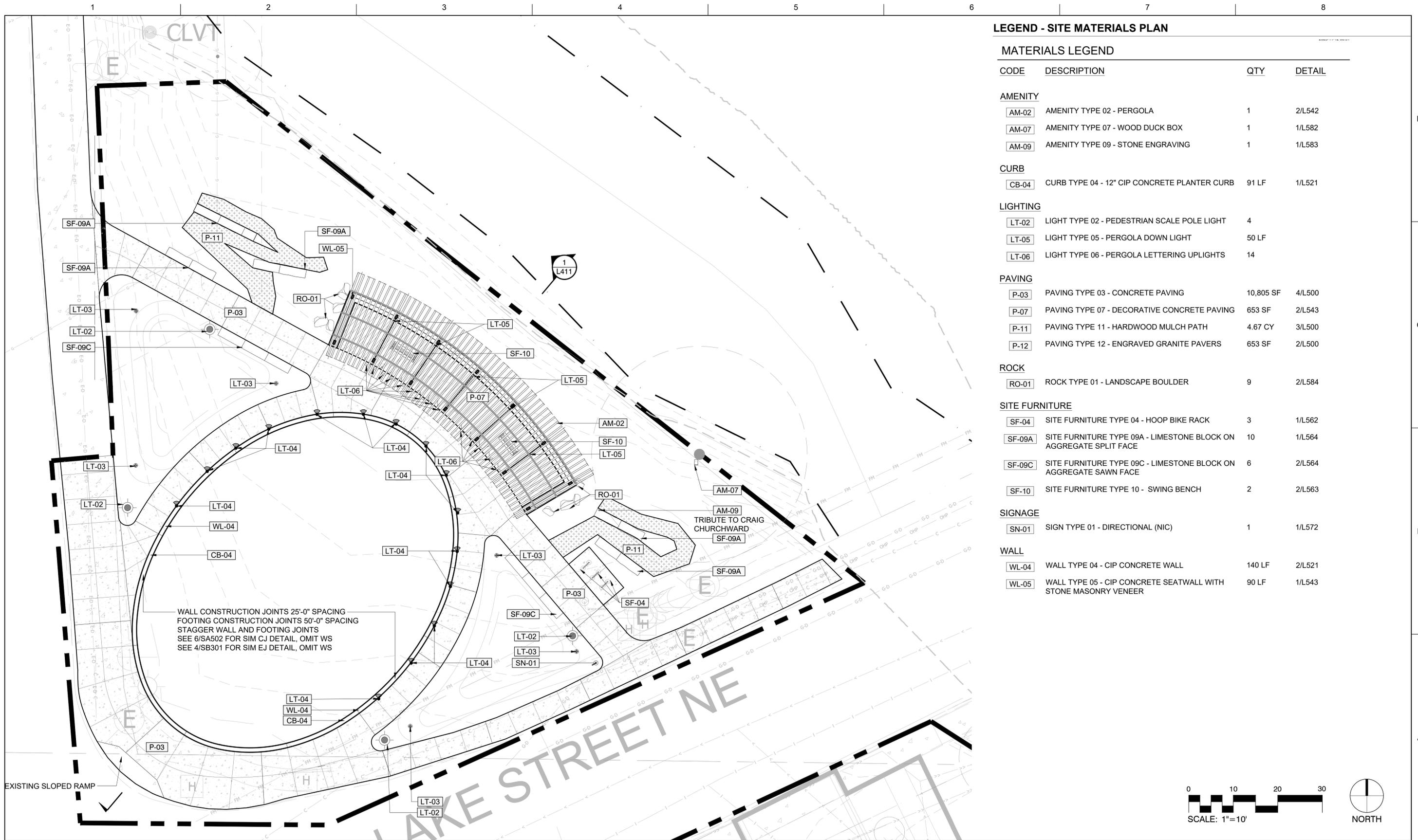
415 BLAKE RD GATEWAY TO THE GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

SOIL PLAN

SCALE AS SHOWN

SHEET
L131

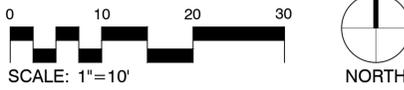


LEGEND - SITE MATERIALS PLAN

MATERIALS LEGEND

CODE	DESCRIPTION	QTY	DETAIL
AMENITY			
AM-02	AMENITY TYPE 02 - PERGOLA	1	2/L542
AM-07	AMENITY TYPE 07 - WOOD DUCK BOX	1	1/L582
AM-09	AMENITY TYPE 09 - STONE ENGRAVING	1	1/L583
CURB			
CB-04	CURB TYPE 04 - 12" CIP CONCRETE PLANTER CURB	91 LF	1/L521
LIGHTING			
LT-02	LIGHT TYPE 02 - PEDESTRIAN SCALE POLE LIGHT	4	
LT-05	LIGHT TYPE 05 - PERGOLA DOWN LIGHT	50 LF	
LT-06	LIGHT TYPE 06 - PERGOLA LETTERING UPLIGHTS	14	
PAVING			
P-03	PAVING TYPE 03 - CONCRETE PAVING	10,805 SF	4/L500
P-07	PAVING TYPE 07 - DECORATIVE CONCRETE PAVING	653 SF	2/L543
P-11	PAVING TYPE 11 - HARDWOOD MULCH PATH	4.67 CY	3/L500
P-12	PAVING TYPE 12 - ENGRAVED GRANITE PAVERS	653 SF	2/L500
ROCK			
RO-01	ROCK TYPE 01 - LANDSCAPE BOULDER	9	2/L584
SITE FURNITURE			
SF-04	SITE FURNITURE TYPE 04 - HOOP BIKE RACK	3	1/L562
SF-09A	SITE FURNITURE TYPE 09A - LIMESTONE BLOCK ON AGGREGATE SPLIT FACE	10	1/L564
SF-09C	SITE FURNITURE TYPE 09C - LIMESTONE BLOCK ON AGGREGATE SAWN FACE	6	2/L564
SF-10	SITE FURNITURE TYPE 10 - SWING BENCH	2	2/L563
SIGNAGE			
SN-01	SIGN TYPE 01 - DIRECTIONAL (NIC)	1	1/L572
WALL			
WL-04	WALL TYPE 04 - CIP CONCRETE WALL	140 LF	2/L521
WL-05	WALL TYPE 05 - CIP CONCRETE SEATWALL WITH STONE MASONRY VENEER	90 LF	1/L543

WALL CONSTRUCTION JOINTS 25'-0" SPACING
 FOOTING CONSTRUCTION JOINTS 50'-0" SPACING
 STAGGER WALL AND FOOTING JOINTS
 SEE 6/SA502 FOR SIM CJ DETAIL, OMIT WS
 SEE 4/SB301 FOR SIM EJ DETAIL, OMIT WS



PROJECT MANAGER ANDREW F. JUDD		
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415 BLAKE RD GATEWAY TO THE GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT
 325 BLAKE RD
 HOPKINS, MN 55343

SITE MATERIALS PLAN

SCALE AS SHOWN

FILENAME

SHEET **L203**

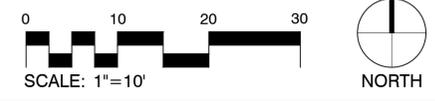
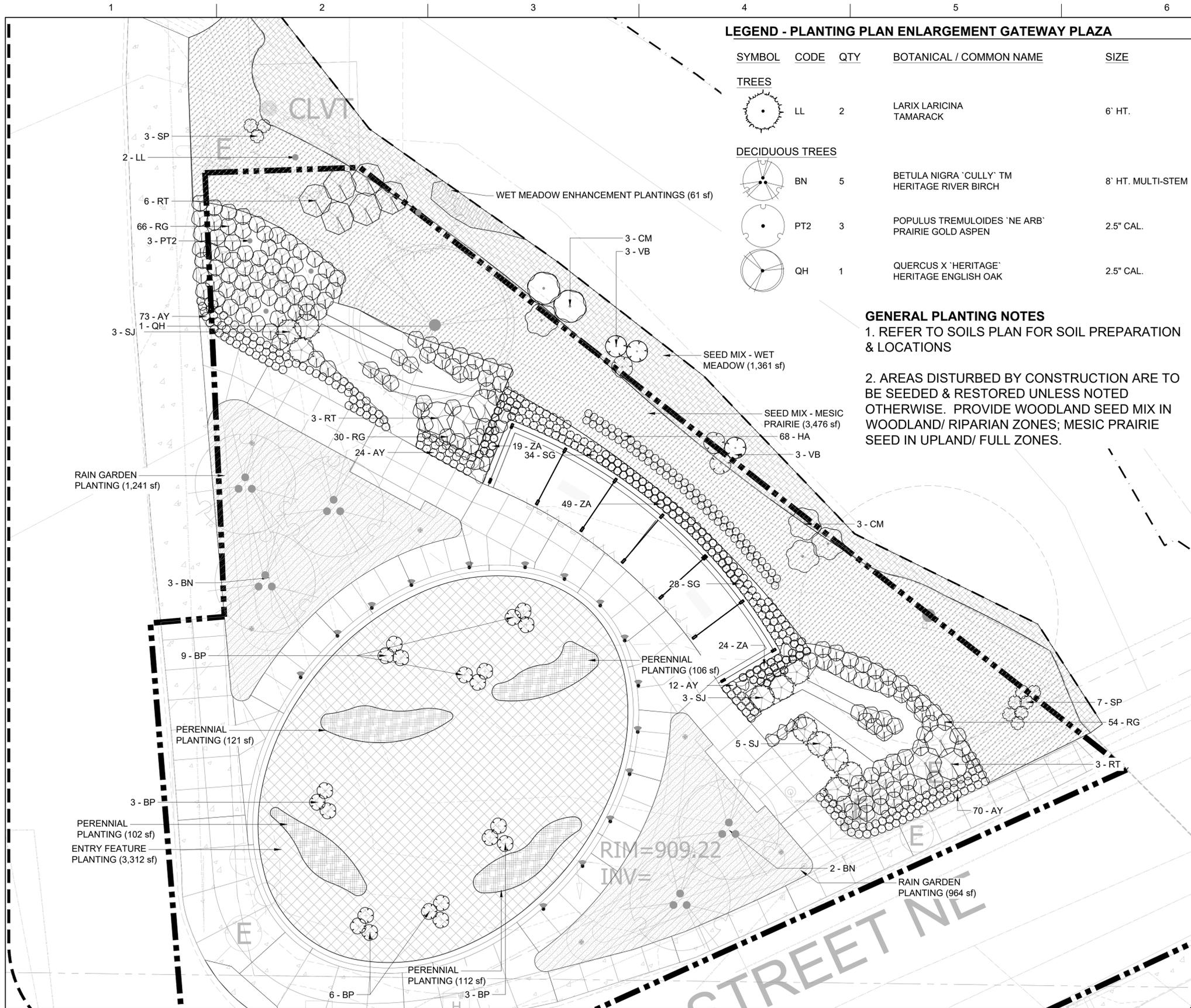
LEGEND - PLANTING PLAN ENLARGEMENT GATEWAY PLAZA

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE
TREES				
	LL	2	LARIX LARICINA TAMARACK	6' HT.
DECIDUOUS TREES				
	BN	5	BETULA NIGRA 'CULLY' TM HERITAGE RIVER BIRCH	8' HT. MULTI-STEM
	PT2	3	POPULUS TREMULOIDES 'NE ARB' PRAIRIE GOLD ASPEN	2.5" CAL.
	QH	1	QUERCUS X 'HERITAGE' HERITAGE ENGLISH OAK	2.5" CAL.

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONT.
SHRUBS					
	CM	6	CORNUS RACEMOSA 'MUSZAM' MUSKINGUM® GRAY DOGWOOD	#2	CONT.
	RG	150	RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC	#5	CONT.
	RT	12	RHUS TYPHINA STAGHORN SUMAC	#5	CONT.
	SJ	11	SALIX CANDIDA 'JEFFBERG' TM ICEBERG ALLEY SAGELEAF WILLOW	#2	CONT.
	SP	10	SALIX DISCOLOR PUSSY WILLOW	#5	
	VB	6	VIBURNUM TRILOBUM 'BAILEY COMPACT' BAILEY'S COMPACT AMERICAN CRANBERRY BUSH	#5	CONT.
PERENNIALS					
	AY	179	ACHILLEA X 'MOONSHINE' MOONSHINE YARROW	#1	CONT.
	BP	21	BAPTISIA AUSTRALIS BLUE WILD INDIGO	#1	CONT.
	HA	68	HELIENIUM AUTUMNALE SALUD YELLOW SNEEZEWEED	#1	CONT.
	SG	62	SOLIDAGO SPECIOSA 'LITTLE MELON' SHOWY GOLDENROD	#1	CONT.
	ZA	92	ZIZIA AUREA GOLDEN ALEXANDER	#1	CONT.
SHRUB AREAS					
	AT	3,312 SF	ENTRY FEATURE PLANTING		
	SL	241	ASCLEPIAS TUBEROSA BUTTERFLY MILKWEED	4"	CONT.
	SL	496	SCHIZACHYRIUM SCOPARIUM LITTLE BLUESTEM	1 GAL	CONT.
	DA	441 SF	PERENNIAL PLANTING		
	LG2	40	DODECATHEON MEADIA 'APHRODITE' GIANT SHOOTING STAR	4"	CONT.
	SL2	61	LIATRIS PYCNOSTACHYA GAYFEATHER	4"	CONT.
	SL2	57	SCHIZACHYRIUM SCOPARIUM LITTLE BLUESTEM	#1	CONT.
	CEF	61 SF	WET MEADOW ENHANCEMENT PLANTINGS		
	IVE	5	CORNUS SERICEA 'ARCTIC FIRE' ARCTIC FIRE RED TWIG DOGWOOD	2 GAL	CONT.
	IVE	8	IRIS VERSICOLOR BLUE FLAG	1 GAL	CONT.
	AP	2,205 SF	RAIN GARDEN PLANTING		
	CV	153	ASTER NOVAE-ANGLIAE 'PURPLE DOME' PURPLE DOME NEW ENGLAND ASTER	1 GAL	CONT.
	CA5	172	CAREX VULPINOIDEA FOX SEDGE	1 GAL	CONT.
	LC	7	CORNUS SERICEA 'ALLEMANS COMPACT' DWARF RED TWIG DOGWOOD	5 GAL	CONT.
	LB	37	LOBELIA CARDINALIS CARDINAL FLOWER	1 GAL	CONT.
	MD2	37	LOBELIA SIPHILITICA 'BIG BLUE' BIG BLUE GREAT LOBELIA	1 GAL	CONT.
	RG5	57	MONARDA DIDYMA BEE BALM	1 GAL	CONT.
	RG5	143	RUDBECKIA FULGIDA SULLIVANTII 'GOLDSTURM' GOLDSTURM CONEFLOWER	1 GAL	CONT.
GROUND COVERS					
		1,361 SF	SEED MIX - WET MEADOW		
		3,476 SF	SEED MIX - MESIC PRAIRIE		

GENERAL PLANTING NOTES
 1. REFER TO SOILS PLAN FOR SOIL PREPARATION & LOCATIONS
 2. AREAS DISTURBED BY CONSTRUCTION ARE TO BE SEEDED & RESTORED UNLESS NOTED OTHERWISE. PROVIDE WOODLAND SEED MIX IN WOODLAND/ RIPARIAN ZONES; MESIC PRAIRIE SEED IN UPLAND/ FULL ZONES.



PROJECT MANAGER	ANDREW F. JUDD	
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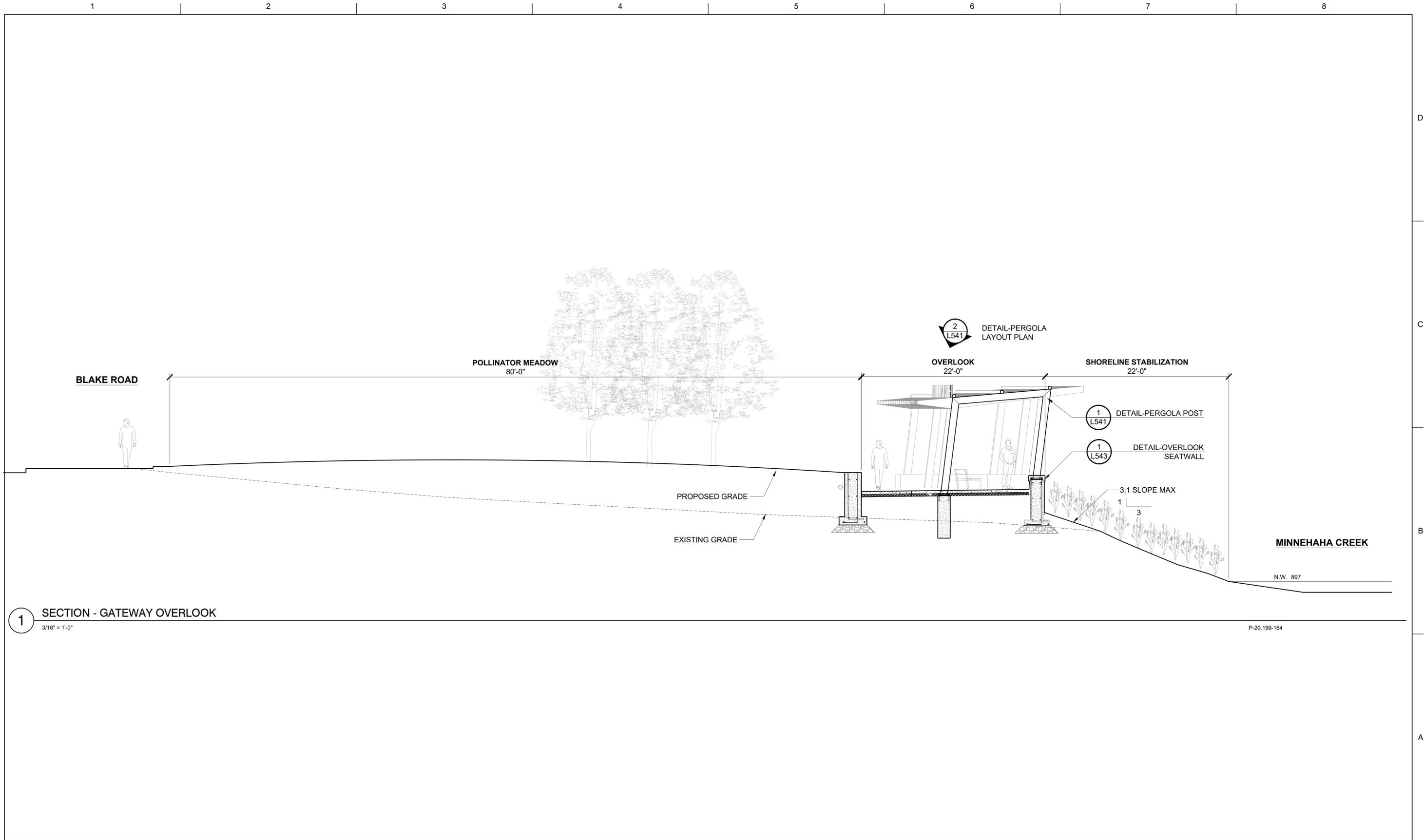
415 BLAKE RD GATEWAY TO THE GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT
 325 BLAKE RD
 HOPKINS, MN 55343

UNDERSTORY PLANTING PLAN

SCALE AS SHOWN

SHEET L243



1 SECTION - GATEWAY OVERLOOK
3/16" = 1'-0"

P-20.199-164



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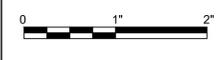
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415 BLAKE RD GATEWAY TO THE GREENWAY

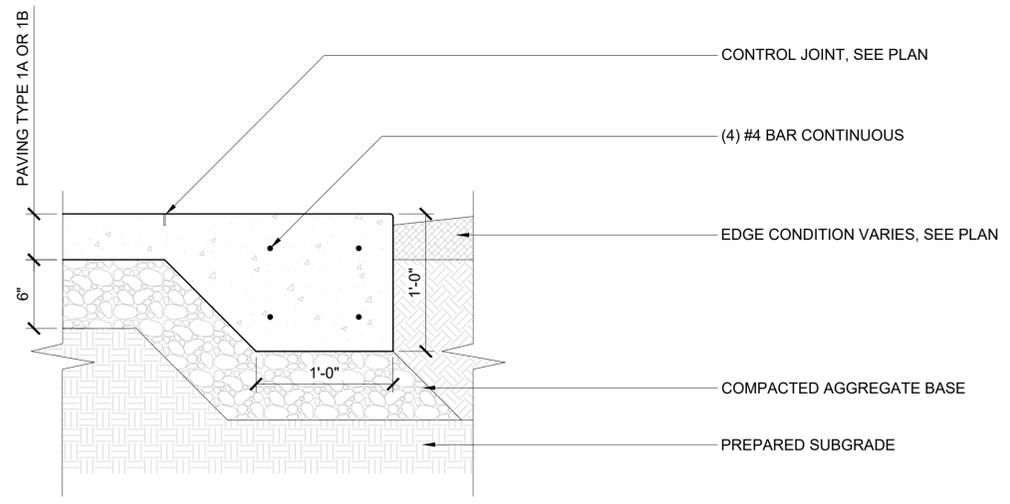
MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

SITE SECTION - GATEWAY OVERLOOK

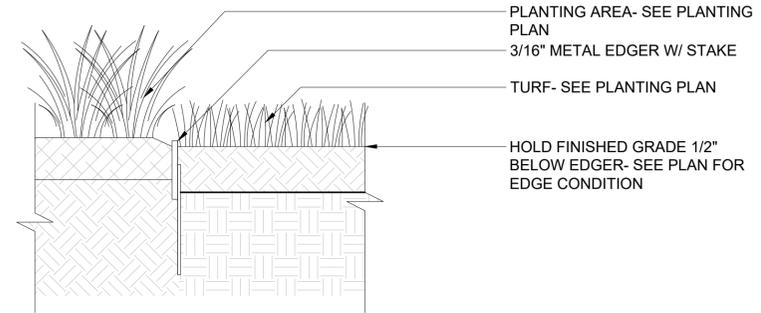


FILENAME
SCALE AS SHOWN

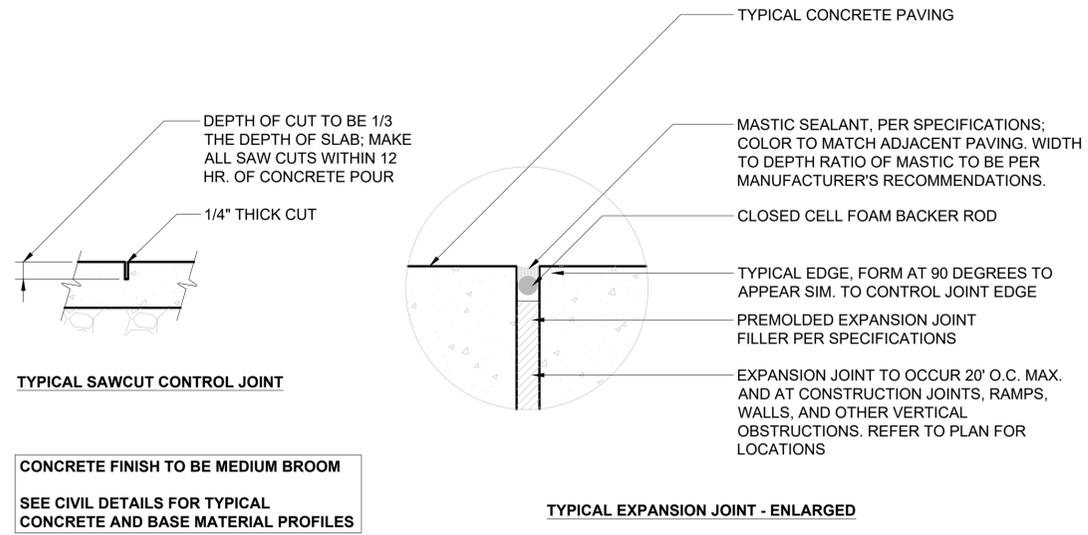
SHEET
L411



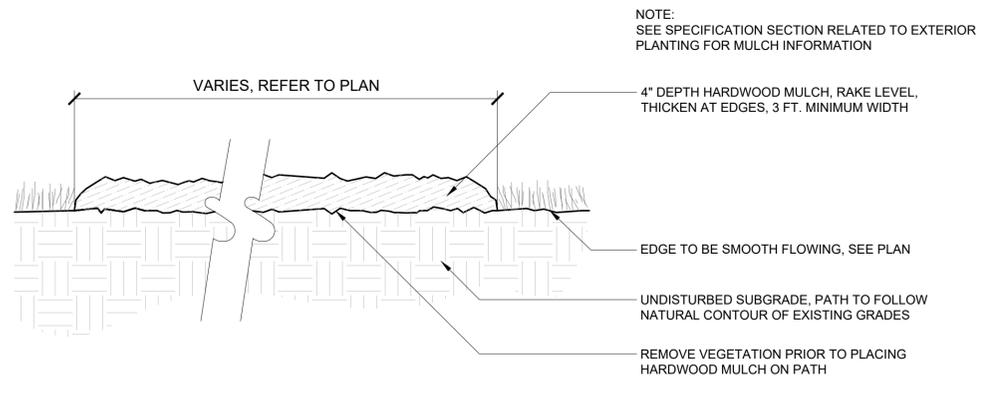
6 DETAIL - EDGE TYPE 3 - THICKENED CONCRETE SLAB EDGE
1 1/2" = 1'-0" P-20.199-196



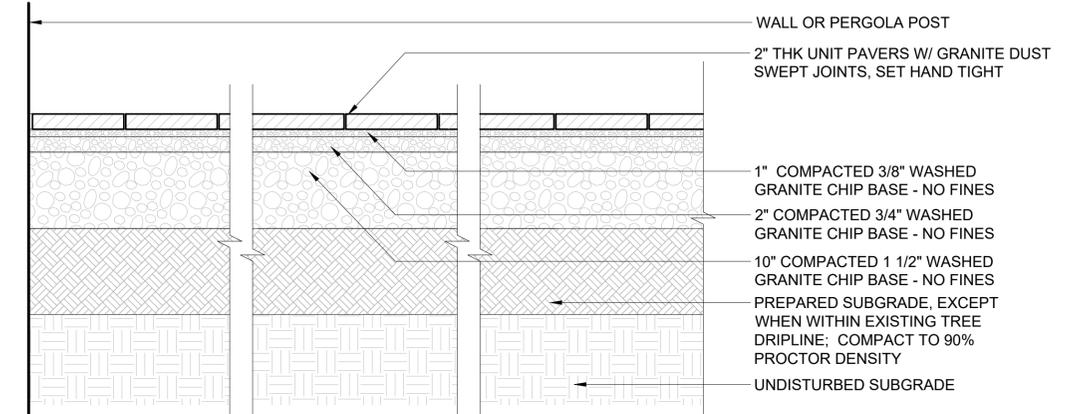
5 DETAIL - STEEL EDGER
1 1/2" = 1'-0" P-20.199-75



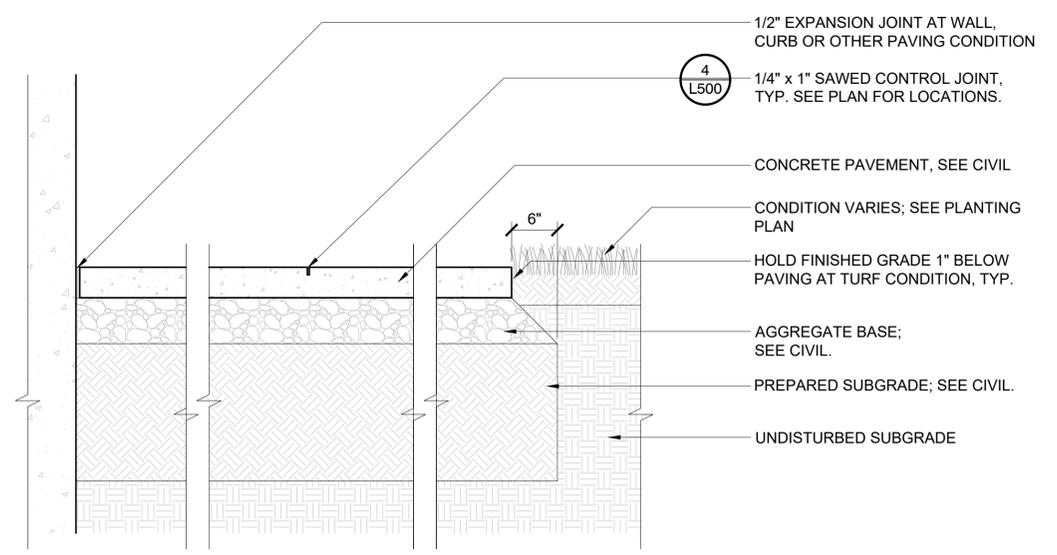
4 DETAIL - P-03 CONCRETE PAVING TYPICAL JOINTING
NTS P-20.199-106



3 DETAIL - PAVING TYPE 11 - HARDWOOD MULCH PATH
1 1/2" = 1'-0" P-20.199-68



2 DETAIL - PAVING TYPE 12 - ENGRAVED GRANITE UNIT PAVERS
1" = 1'-0" P-20.199-200



1 DETAIL - PAVING TYPE 03 - CONCRETE PAVING
1" = 1'-0" P-20.199-206



MINNEHAHA CREEK WATERSHED DISTRICT



DF/ DAMON FARBER LANDSCAPE ARCHITECTS
401 North 2nd Avenue, Suite 410
Minneapolis, MN 55401 p. 612.332.7522

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PROJECT NUMBER	10268112

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DATE XX/XX/XXXX LICENSE # 43941

415 BLAKE RD GATEWAY TO THE GREENWAY

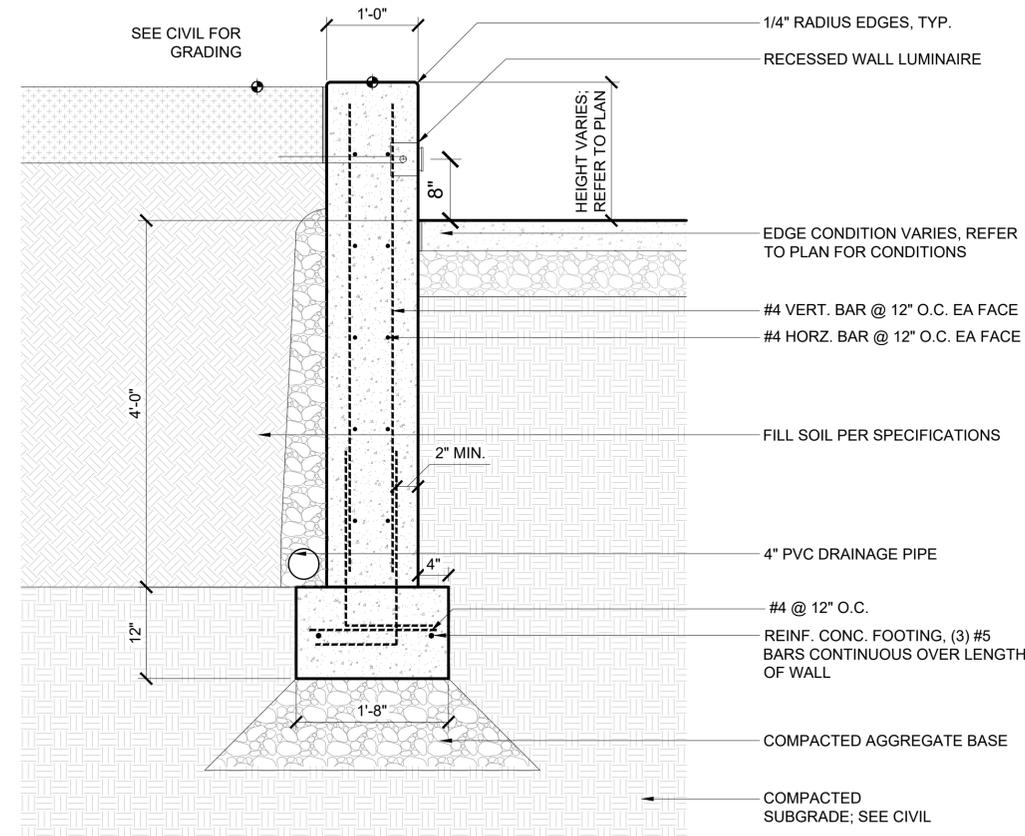
MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

LANDSCAPE DETAILS - PAVING, CURBING, AND EDGING



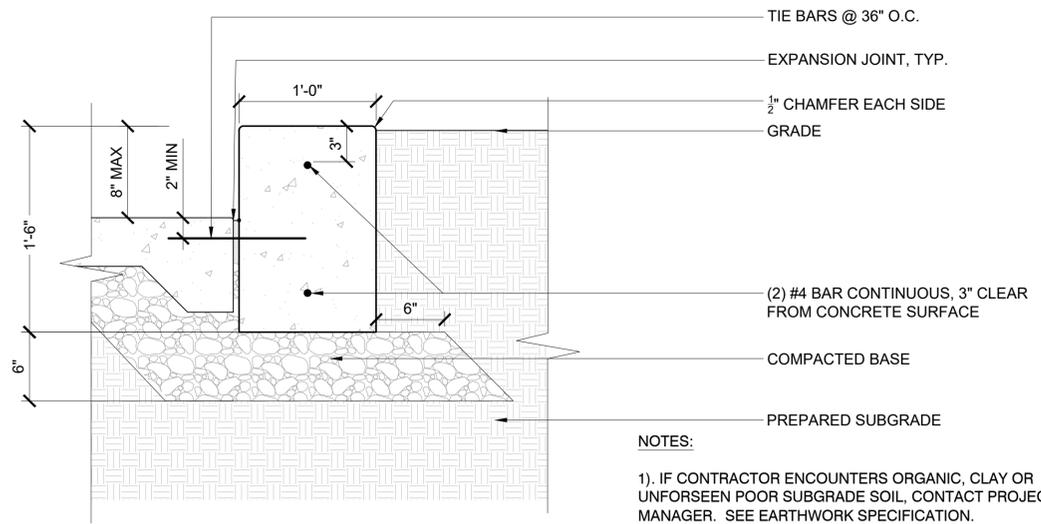
FILENAME
SCALE AS SHOWN

SHEET
L500



NOTES:
 1. EPOXY REBAR TO BE SET 3" MIN. CLEAR FROM FACE OF CIP CONCRETE
 2. EXPOSED CONCRETE TO HAVE SMOOTH RUBBED FINISH.

2 DETAIL - WL-04 CIP CONCRETE WALL - 3'-0" HGT MAX
 1" = 1'-0" P-20.199-15



NOTES:
 1). IF CONTRACTOR ENCOUNTERS ORGANIC, CLAY OR UNFORSEEN POOR SUBGRADE SOIL, CONTACT PROJECT MANAGER. SEE EARTHWORK SPECIFICATION.

1 DETAIL - CB-04 CIP CONCRETE PLANTER CURB
 1 1/2" = 1'-0" P-20.199-213



MINNEHAHA CREEK WATERSHED DISTRICT



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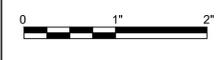
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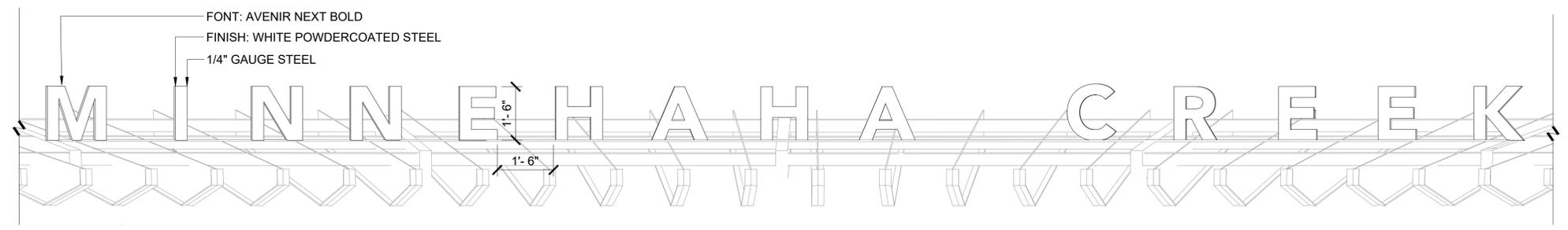
MINNEHAHA CREEK WATERSHED DISTRICT
 325 BLAKE RD
 HOPKINS, MN 55343

LANDSCAPE DETAILS - WALL



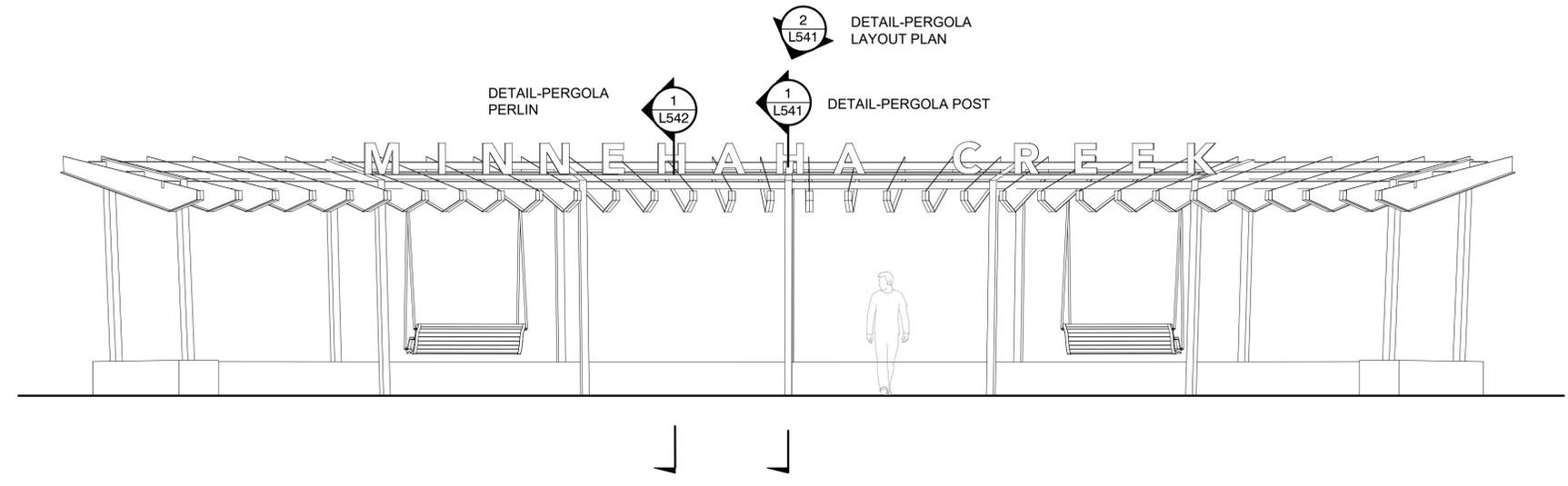
FILENAME
 SCALE AS SHOWN

SHEET
L521



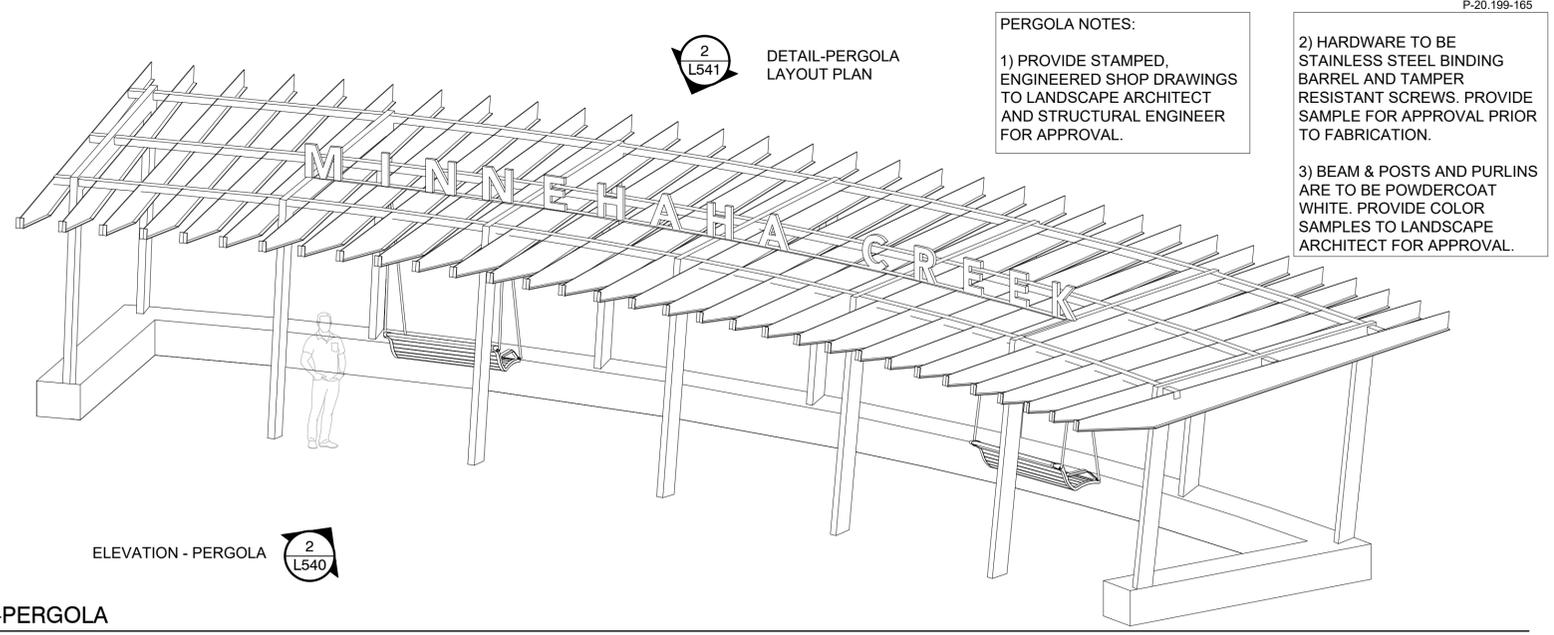
3 DETAIL- PERGOLA LETTERING
1/2" = 1'-0"

P-20.199-236



2 ELEVATION - PERGOLA
1/4" = 1'-0"

P-20.199-165



PERGOLA NOTES:

- 1) PROVIDE STAMPED, ENGINEERED SHOP DRAWINGS TO LANDSCAPE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL.
- 2) HARDWARE TO BE STAINLESS STEEL BINDING BARREL AND TAMPER RESISTANT SCREWS. PROVIDE SAMPLE FOR APPROVAL PRIOR TO FABRICATION.
- 3) BEAM & POSTS AND PURLINS ARE TO BE POWDERCOAT WHITE. PROVIDE COLOR SAMPLES TO LANDSCAPE ARCHITECT FOR APPROVAL.

1 AXON-PERGOLA
1/4" = 1'-0"

P-20.199-166



MINNEHAHA CREEK
WATERSHED DISTRICT



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LANDSCAPE ARCHITECTS
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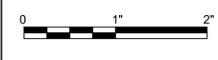
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415 BLAKE RD GATEWAY TO THE GREENWAY

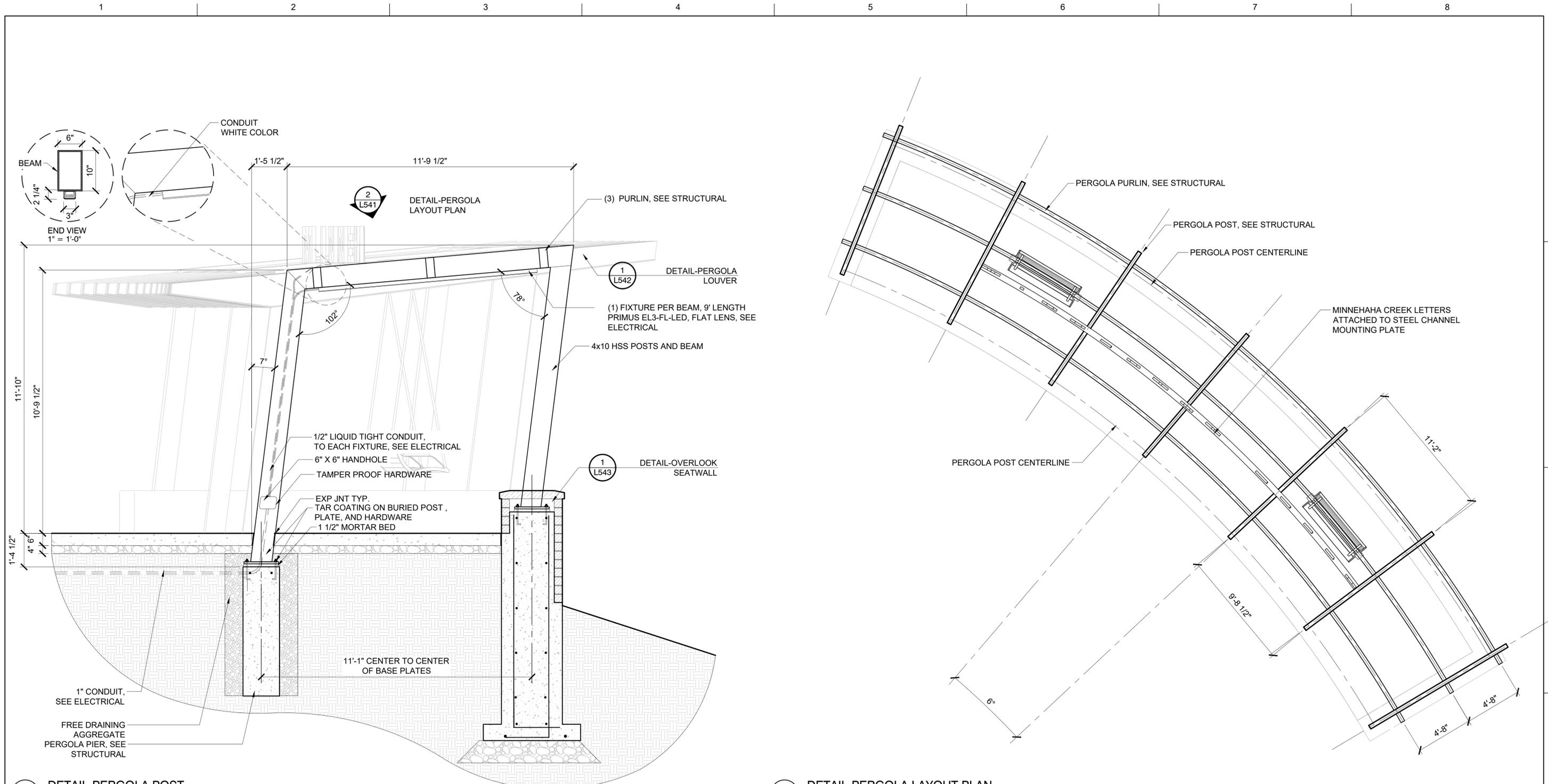
MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

LANDSCAPE DETAILS - PERGOLA



FILENAME
SCALE AS SHOWN

SHEET
L540



1 DETAIL-PERGOLA POST
1/2" = 1'-0"

2 DETAIL-PERGOLA LAYOUT PLAN
1/4" = 1'-0"

NOTES:
CONTRACTOR TO PROVIDE ENGINEERED, STAMPED SHOP DRAWINGS



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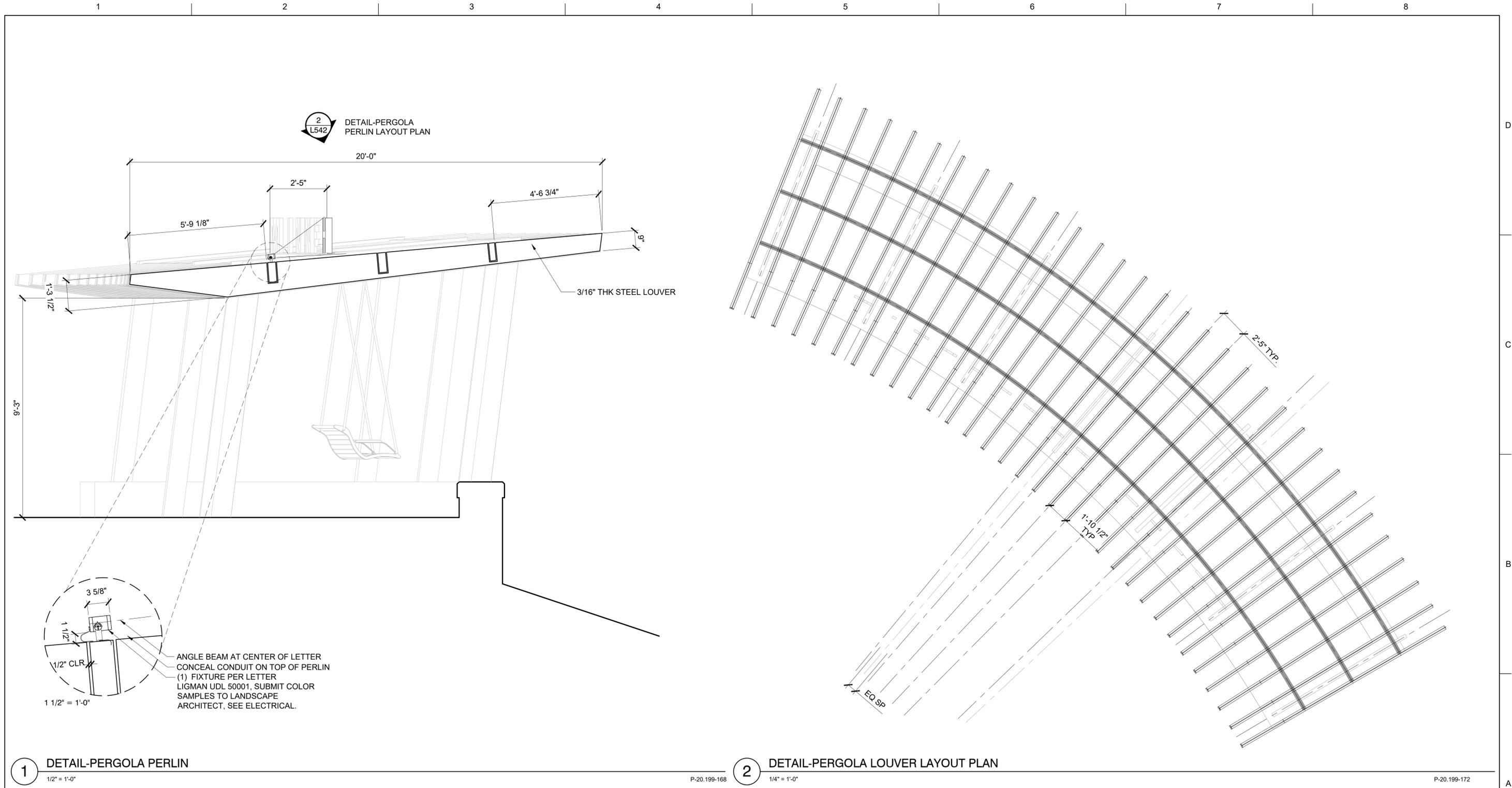
MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

LANDSCAPE DETAILS - PERGOLA

0 1" 2" SCALE AS SHOWN

FILENAME: AS SHOWN

SHEET **L541**



1 DETAIL-PERGOLA PERLIN
1/2" = 1'-0"

2 DETAIL-PERGOLA LOUVER LAYOUT PLAN
1/4" = 1'-0"

P-20.199-168

P-20.199-172



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PROJECT MANAGER ANDREW F. JUDD

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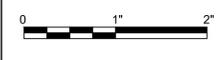
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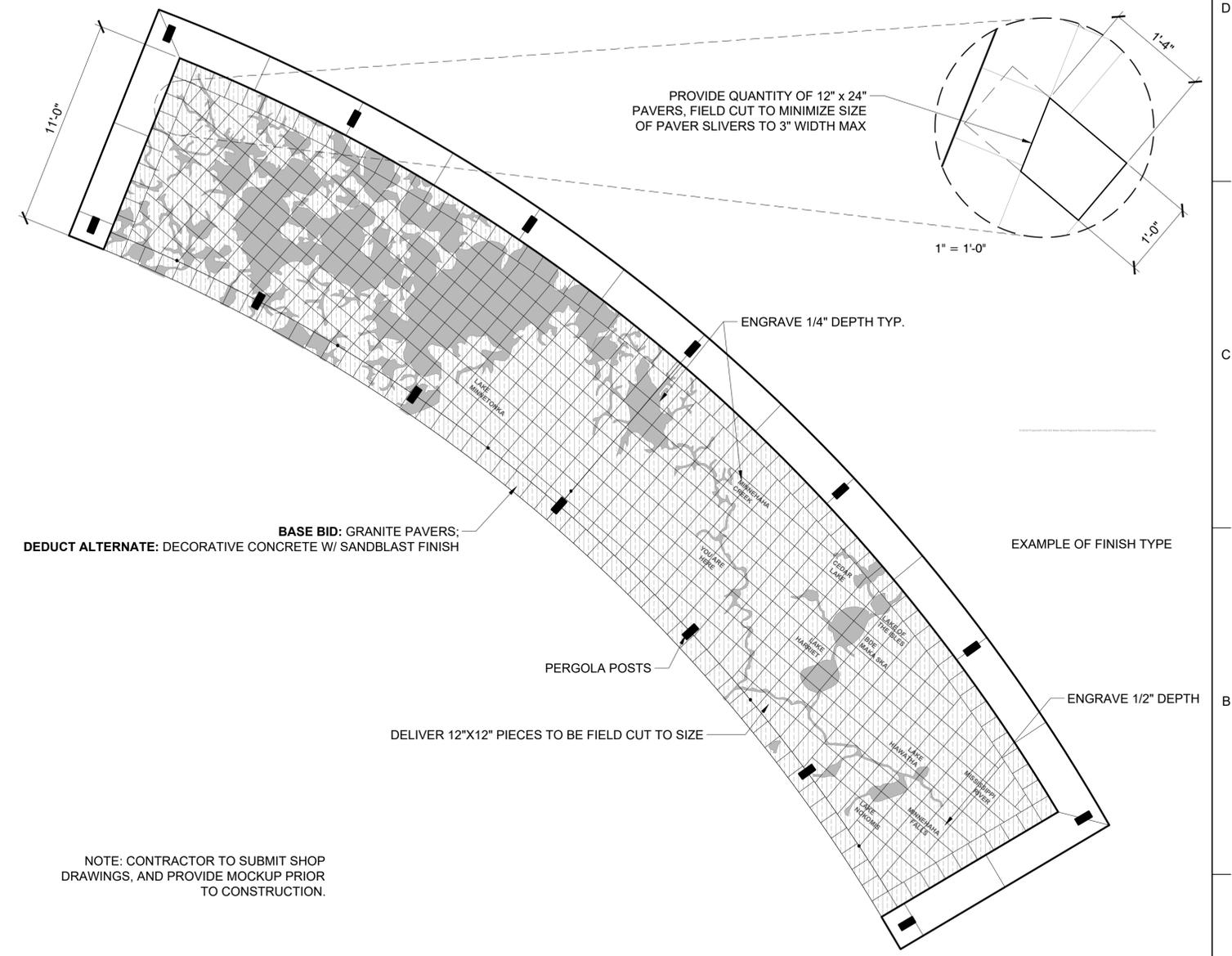
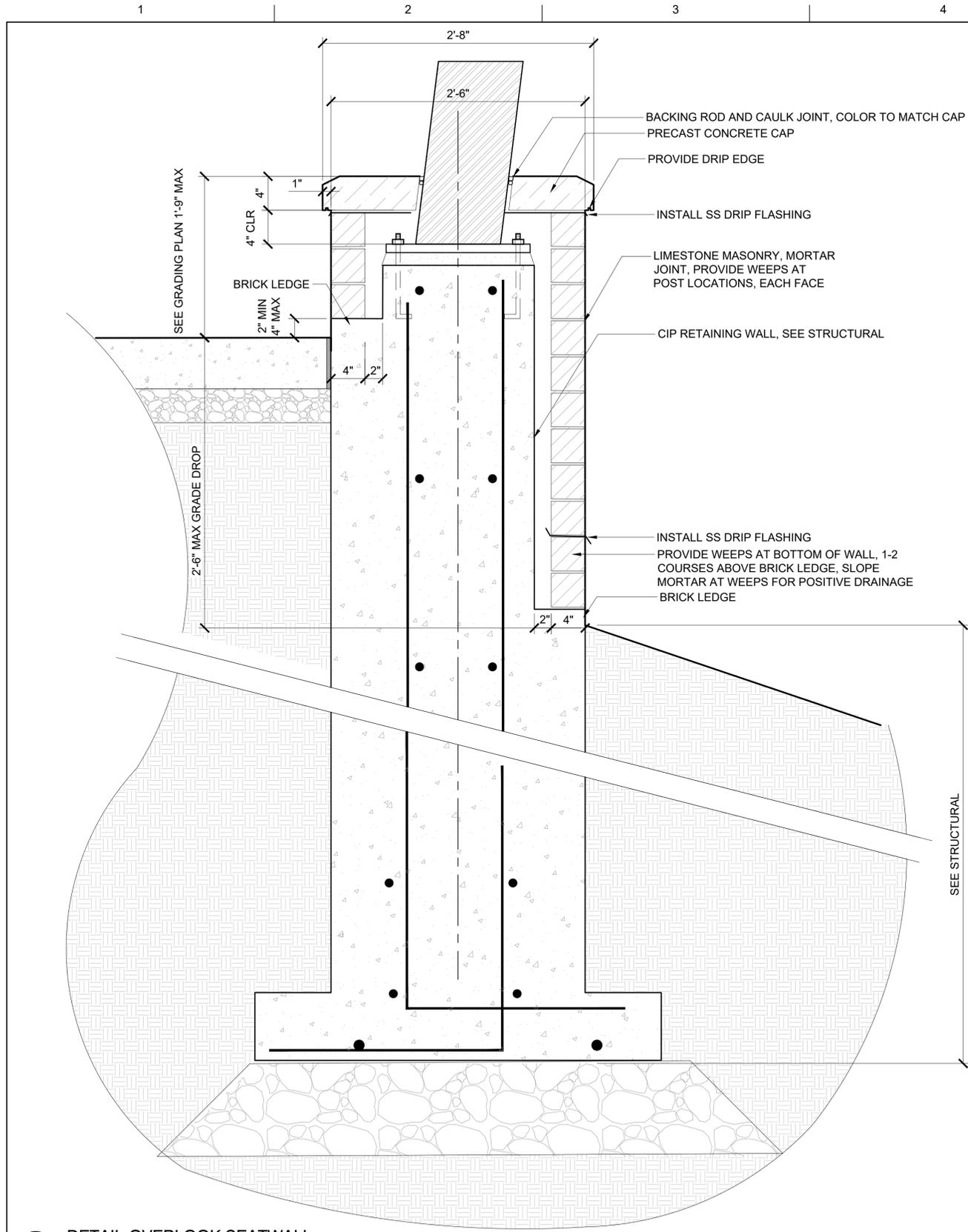
MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

LANDSCAPE DETAILS - PERGOLA



FILENAME
SCALE AS SHOWN

SHEET
L542



2 DETAIL-OVERLOOK PAVING PLAN (BASE BID)
1/4" = 1'-0"

1 DETAIL-OVERLOOK SEATWALL
1 1/2" = 1'-0"

P-20.199-169

P-20.199-170



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415 BLAKE RD GATEWAY TO THE GREENWAY

MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

LANDSCAPE DETAILS - PERGOLA

0 1" 2" SCALE AS SHOWN

FILENAME AS SHOWN

SHEET **L543**



NOTE: CONTRACTOR TO SUBMIT SHOP DRAWINGS, AND PROVIDE MOCKUP PRIOR TO CONSTRUCTION.

1 DETAIL-OVERLOOK PAVING PLAN (DEDUCT ALTERNATE)
1/4" = 1'-0"

P-20.199-229



MINNEHAHA CREEK WATERSHED DISTRICT



DF/ DAMON FARBER LANDSCAPE ARCHITECTS
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Minneapolis, MN 55401 p: 612.332.7522

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B	09/14/2022	90% DESIGN
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PROJECT MANAGER	ANDREW F. JUDD
PROJECT NUMBER	10268112

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JEFF MCMENIMEN, PLA
DATE XX/XX/XXXX LICENSE # 43941

415 BLAKE RD GATEWAY TO THE GREENWAY

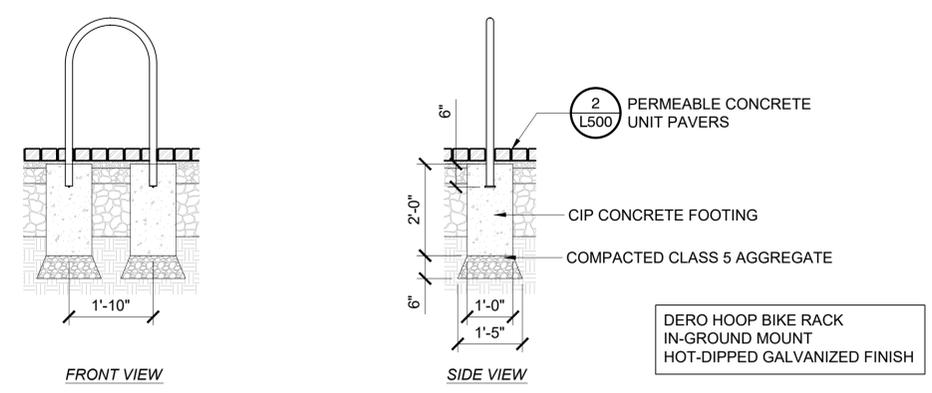
MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

LANDSCAPE DETAILS - PERGOLA



FILENAME
SCALE AS SHOWN

SHEET
L544



1 DETAIL - SF-04 HOOP BIKE RACK
1/2" = 1'-0"

P-20.199-139



MINNEHAHA CREEK
WATERSHED DISTRICT



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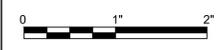
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MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

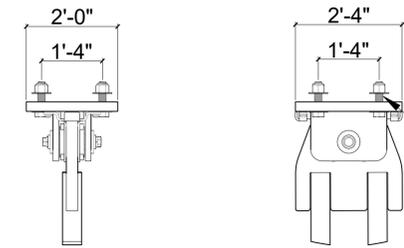
LANDSCAPE DETAILS - SITE FURNISHINGS



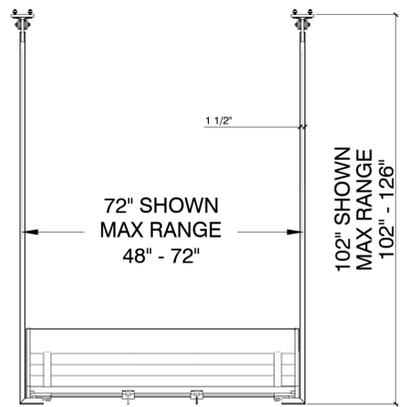
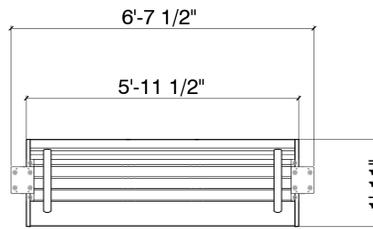
FILENAME
SCALE AS SHOWN

SHEET
L562

THE CONNECTION HARDWARE WILL BE PROVIDED BY
LANDSCAPEFORMS: (4X Ø1/2-13 A325 GALVANIZED BOLTS)



DETAIL A - VERTICAL BOLT CLAMP
SCALE: N/A

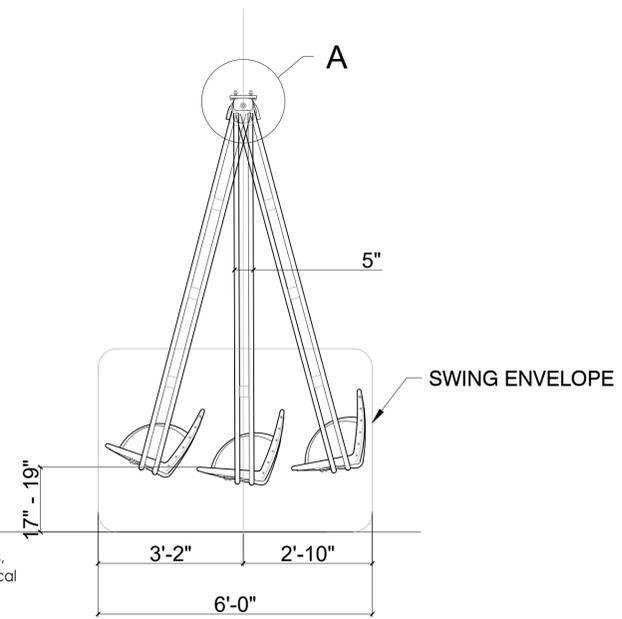


GRADE
Landscape Forms - Austin Swing Bench, 48" - 72" backed, end arms, aluminum/wood seating, 102" - 126" Suspension Hangers with Vertical Bolt (C) Clamps

AUSTIN SWING BENCH
SUSPENSION KIT
(AUSPECC) **SOLD
SEPARATELY FROM
SWING BENCH**

4X Ø1/2-13
A325 BOLTS

WOOD INSERT WITH END
ARMS, SEE SPECS



1 DETAIL-SWING BENCH
1/2" = 1'-0"

P-20.199-185



MINNEHAHA CREEK
WATERSHED DISTRICT



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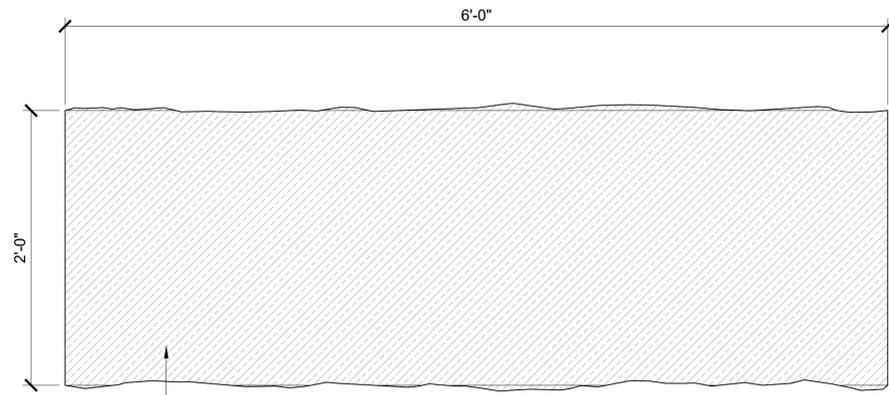
MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

LANDSCAPE DETAILS - SITE FURNISHINGS



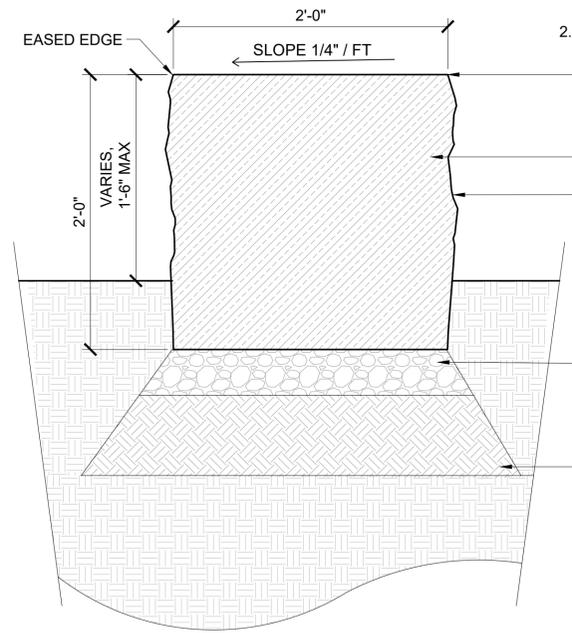
FILENAME
SCALE AS SHOWN

SHEET
L563



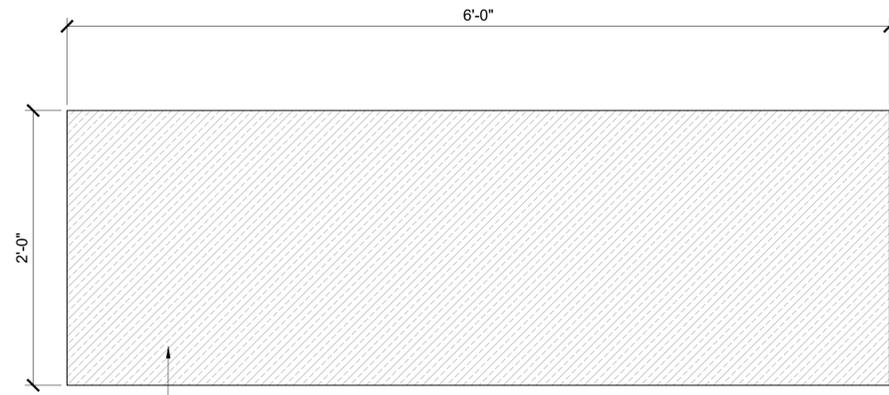
PLAN SAWN CUT TOP AND BOTTOM OF BENCH

- NOTES:
1. ALL BLOCKS TO BE INSTALLED STABLE AND SECURELY AND SHALL NOT WOBBLE OR MOVE.
 2. REFER TO PLANS FOR WALL LAYOUT



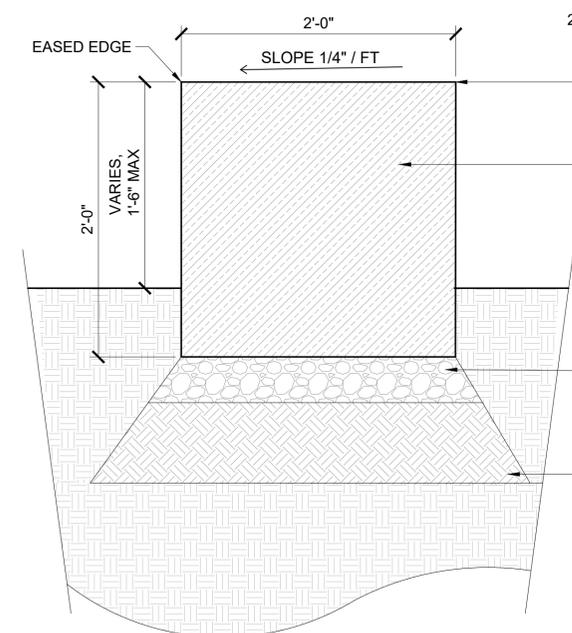
SECTION

1 DETAIL - SF-09A LIMESTONE BLOCK BENCH ON AGGREGATE - SPLIT FACE
1 1/2" = 1'-0" P-20.199-191



PLAN SAWN CUT ALL SIDES OF BENCH

- NOTES:
1. ALL BLOCKS TO BE INSTALLED STABLE AND SECURELY AND SHALL NOT WOBBLE OR MOVE.
 2. REFER TO PLANS FOR WALL LAYOUT



SECTION

2 DETAIL - SF-09C LIMESTONE BLOCK BENCH ON AGGREGATE - SAWN FACE
1 1/2" = 1'-0" P-20.199-210



MINNEHAHA CREEK WATERSHED DISTRICT



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MINNEHAHA CREEK WATERSHED DISTRICT
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HOPKINS, MN 55343

LANDSCAPE DETAILS - SITE FURNISHINGS

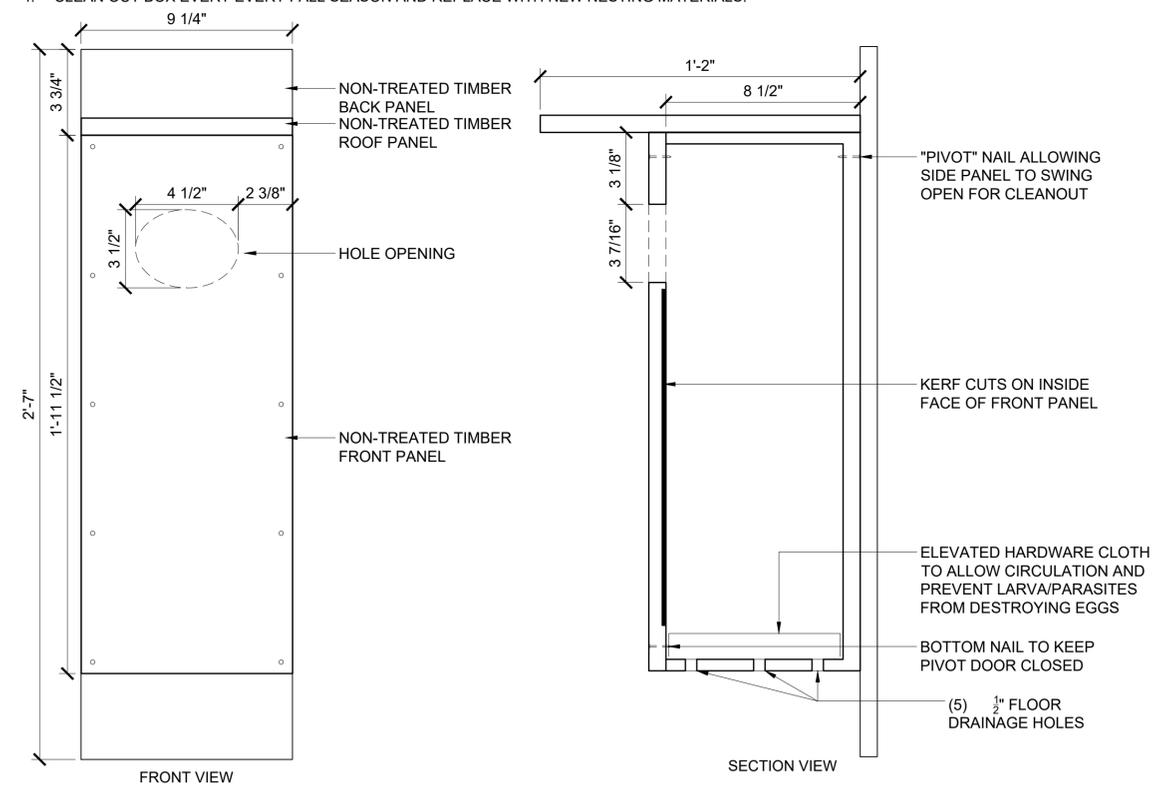


SCALE AS SHOWN

SHEET L564

NOTES:

- DO NOT USE TREATED WOOD OR PLYWOOD
- DO NOT USE OIL-BASED PAINTS OR STAINS. USE NONTOXIC WOOD PRESERVATIVE OR NEUTRAL COLORED PAINT. DO NOT APPLY FINISH INSIDE BOX.
- PLACE 4"-6" OF WOOD SHAVINGS IN BOTTOM OF BOX. DO NOT USE SAWDUST.
- CLEAN OUT BOX EVERY EVERY FALL SEASON AND REPLACE WITH NEW NESTING MATERIALS.



1 DETAIL - AM-07 WOOD DUCK BOX
3" = 1'-0"

P-20.199-217



MINNEHAHA CREEK WATERSHED DISTRICT



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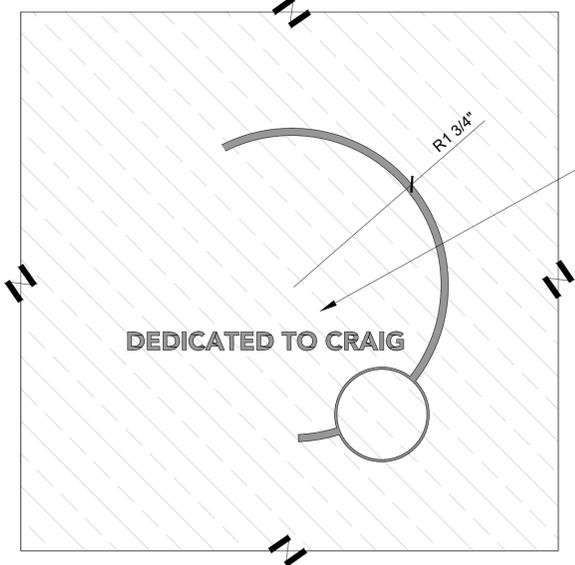
LANDSCAPE DETAILS - AMENITY



FILENAME
SCALE AS SHOWN

SHEET
L582

NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.



1/4" DEPTH ENGRAVING TO RECEIVE BLACK COLOR INFILL

DEDICATED TO CRAIG

1 DETAIL - STONE ENGRAVING
1" = 1"

P-20.199-221



MINNEHAHA CREEK WATERSHED DISTRICT



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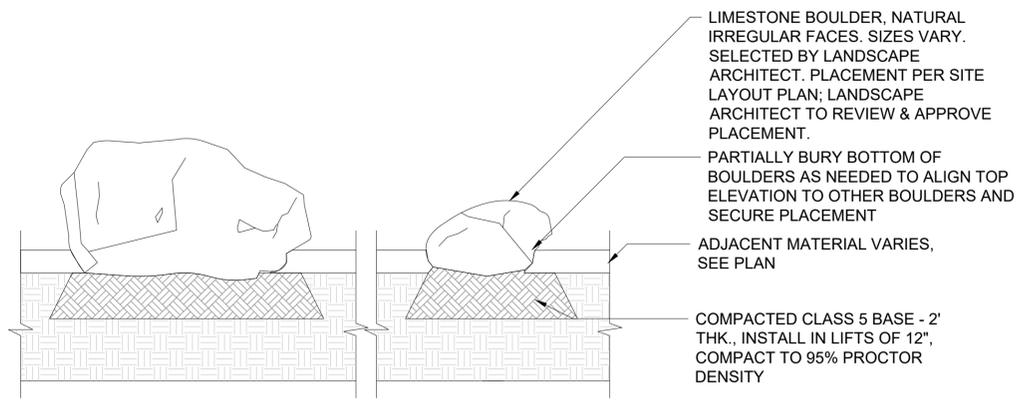
MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

LANDSCAPE DETAILS - AMENITY



FILENAME
SCALE AS SHOWN

SHEET
L583



1 DETAIL - RO-01 LANDSCAPE BOULDER
NTS

P-20.199-38



**MINNEHAHA CREEK
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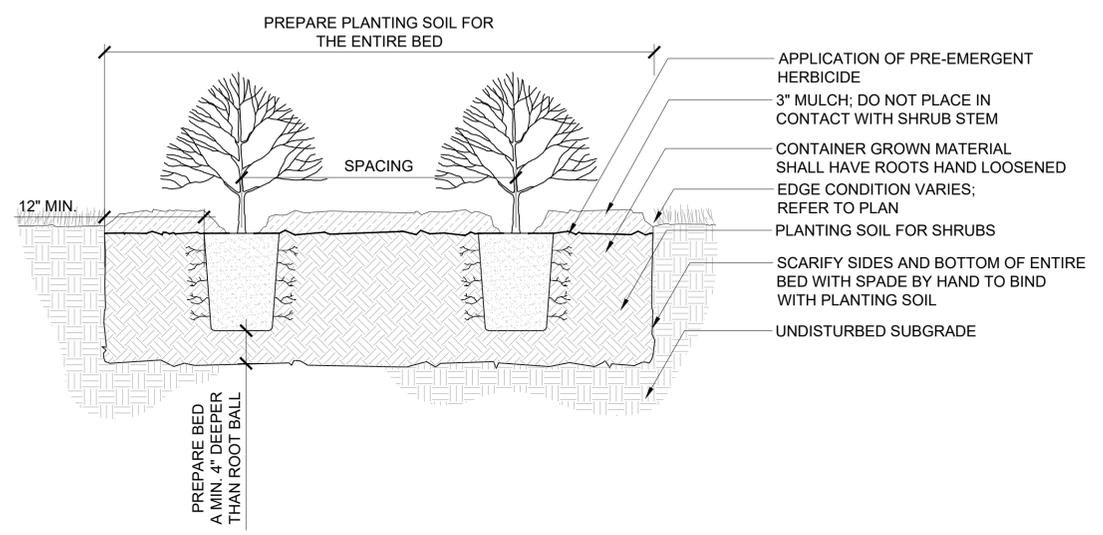
MINNEHAHA CREEK WATERSHED DISTRICT
325 BLAKE RD
HOPKINS, MN 55343

LANDSCAPE DETAILS - AMENITY



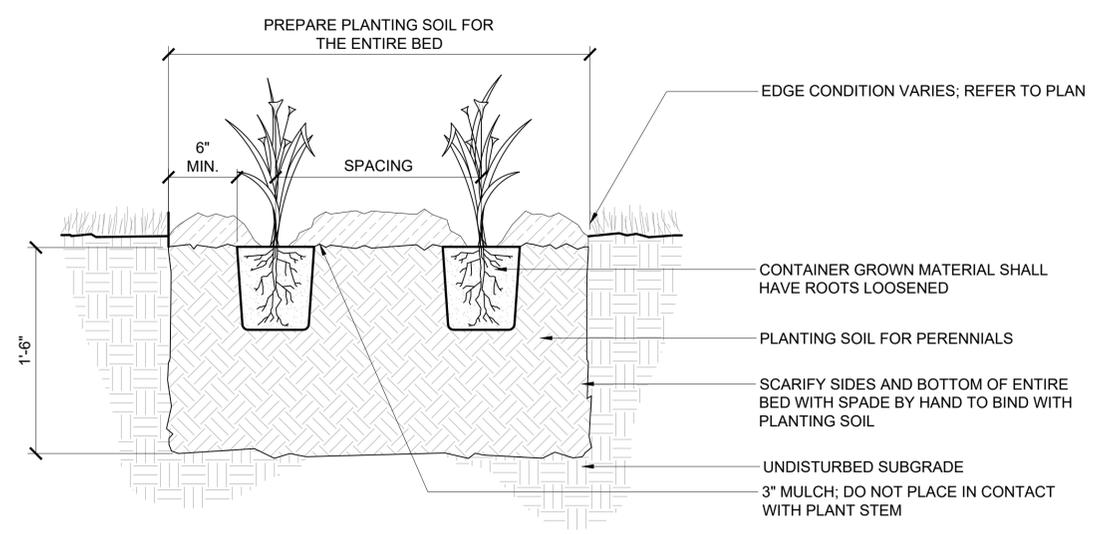
FILENAME
SCALE AS SHOWN

SHEET
L584



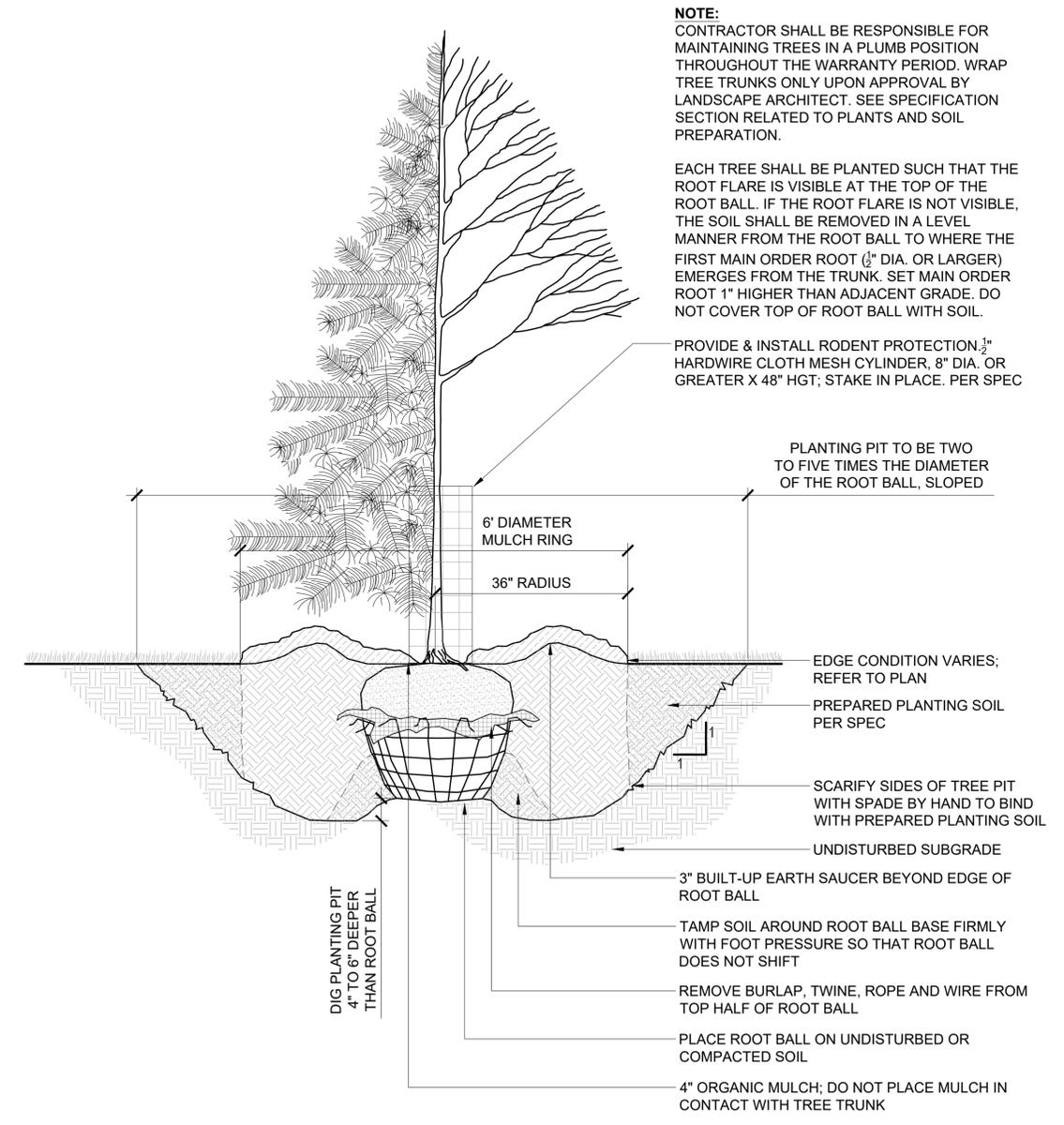
3 DETAIL - SHRUB PLANTING
1" = 1'-0"

P-20.199-08



2 DETAIL - PERENNIAL PLANTING
1 1/2" = 1'-0"

P-20.199-06



1 DETAIL - TREE PLANTING
3/4" = 1'-0"

P-20.199-05



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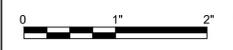
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LANDSCAPE DETAILS - PLANTING



FILENAME
SCALE AS SHOWN

SHEET
L590