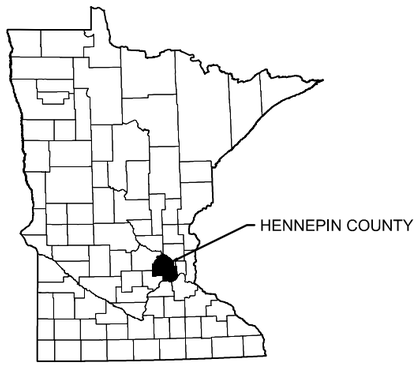
MEDLEY PARK STORMWATER IMPROVEMENT

CITY OF GOLDEN VALLEY

GOLDEN VALLEY, MN

CITY PROJECT #20-26

Item 6A.
BCWMC 2-17-22



MINNESOTA COUNTY MAP

PROJECT LOCATION MAP

0 100 200
SCALE IN FEET

INDEX OF SHEETS

G-01	TITLE SHEET AND SITE LOCATION MAP
G-02	STATEMENT OF ESTIMATED QUANTITIES
C-01	EXISTING CONDITIONS, PED/TRAFFIC CONTROL, & EROSION CONTROL
C-02	REMOVALS
C-03	GRADING AND STORM SEWER PLAN
C-04	PONDS AND STORM SEWER PROFILES & SECTIONS *
C-05	PONDS AND STORM SEWER PROFILES & SECTIONS *
C-06	STREAM CHANNEL PLAN AND PROFILE *
C-07	STREAM CHANNEL SECTIONS AND DETAILS *
C-08	BITUMINOUS TRAIL PAVING PLAN *
C-09	DETAILS - BITUMINOUS TRAIL, CONCRETE PAD, AND BENCH
C-10	DETAILS - STORM SEWER
C-11	DETAILS - SITE FEATURES
SW-01	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
SW-02	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
SW-03	EROSION & SEDIMENT CONTROL DETAILS
SW-04	EROSION & SEDIMENT CONTROL DETAILS
B-01	SOIL BORING LOGS

* DRAWING NOT INCLUDED IN THIS SET

PROJECT CONTACTS:

KATIE TURPIN-NAGEL, PE
BARR ENGINEERING CO.
PHONE: 952-446-5725
FAX: 952-832-2601
EMAIL: KJN2@BARR.COM

JEFF OLIVER, PE
CITY OF GOLDEN VALLEY
PHONE: 763-593-8034
EMAIL: JOLIVER@GOLDENVALLEYMN.GOV

KURT LEUTHOLD, PE
BARR ENGINEERING CO.
PHONE: 952-832-2859
FAX: 952-832-2601
EMAIL: KAL@BARR.COM

ERIC ECKMAN
CITY OF GOLDEN VALLEY
PHONE: 763-593-8084
EMAIL: EECKMAN@GOLDENVALLEYMN.GOV

COORDINATE SYSTEM: HENNEPIN COUNTY
HORIZONTAL DATUM: NAD83 (2011)
VERTICAL DATUM: NAVD88

GOPHER STATE ONE CALL

GOPHER STATE ONE CALL:
CALL BEFORE YOU DIG.
1-800-252-1166

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

JEFF OLIVER, PE, CITY ENGINEER

DATE_____REG. NO.23110

50% DESIGN
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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	ADB2	KJN2	KAL	12/10/2021	ISSUED FOR REVIEW

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DATE _____ LICENSE # _____

CLIENT	12/10/21							
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CONSTRUCTION								
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	DATE RELEASED							

BARR
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

Scale	AS SHOWN
Date	12/10/2021
Drawn	BARR
Checked	KJN2
Designed	BARR
Approved	KAL

CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

MEDLEY PARK
STORMWATER IMPROVEMENT
TITLE SHEET AND
SITE LOCATION MAP

BARR PROJECT No.	23/27-1901.00
CLIENT PROJECT No.	20-26
DWG. No.	G-01
REV. No.	A

CADD USER: Greg Nelson FILE: M:\DESIGN\23271901.00\23271901.00_G01_TITLESHEET.DWG PLOT SCALE: 1:2 PLOT DATE: 2/1/2022 2:31 PM

TRAIL CLOSED

EXISTING PEDESTRIAN BRIDGE

EXISTING CONCRETE WEIR

PROTECT 32" WILLOW TREE

SILT FENCE

EXISTING STORM SEWER

EXISTING CONCRETE

HAUL ROAD MUST AVOID EXISTING UTILITIES, VERIFY ALIGNMENT WITH OWNER AFTER LOCATES.

CONSTRUCTION AHEAD

TRUCKS ENTERING

ENSIGN AVE N

TRAIL CLOSED

ORANGE CONSTRUCTION FENCE ON NORTH SIDE OF HAUL ROAD

MEDLEY LANE

ACCESS FROM ENSIGN AVE N

INLET PROTECTION

EXISTING PARCEL BOUNDARY

EXISTING PAVED TRAIL

ALL EXISTING BASEBALL BENCHES, BLEACHERS, AND FENCING REMOVED BY OWNER PRIOR TO CONSTRUCTION

SB-NORTH

PROTECT TREE

PLACE SILT FENCE AS CLOSE TO CHAIN LINK FENCE AS POSSIBLE

TREE PROTECTION FENCING, INSTALL AT EDGE OF WATER

SED-01

MEDLEY POND
NWL = 898.6

SED-02

EXISTING LIGHT POLE (TYP.)

EXISTING PAVED TRAIL (THIS SECTION REMOVED BY CITY PRIOR TO CONSTRUCTION)

SHADE TREE AND STUMP TO BE REMOVED BY CITY PRIOR TO CONSTRUCTION

ROCK CONSTRUCTION ENTRANCE

CHAIN LINK FENCE ON SOUTH SIDE OF HAUL ROAD AND SOUTH ACROSS PAVED TRAIL

TRUCKS ENTERING

CONSTRUCTION AHEAD

SHADE TREES AND STUMPS ALONG PATH TO BE REMOVED BY CITY PRIOR TO CONSTRUCTION

EXISTING FES

FLOATING SILT CURTAIN AT POND OUTLET

EXISTING TIMBER WALL AND BENCH REMOVED BY OWNER PRIOR TO CONSTRUCTION

TREE PROTECTION FENCING

SB-SOUTH

TRAIL CLOSED

EXISTING UNDERGROUND ELECTRIC

EXISTING WATER

EXISTING STORM MANHOLE

KINGS VALLEY POND
NWL = 898.6

SILT FENCE

COMMUNITY GARDEN CONSTRUCTED 2022

HOCKEY RINK

EXISTING GAS

TRAFFIC SIGNS			
QTY.	MNDOT SIGN NO.	SIGN SIZE	SIGN MESSAGE
3	Barricade	8.2' WIDE	
3	R9-9 OVERLAY ON R11-2M	24" X 18"	TRAIL CLOSED
2	Special	36" X 36"	CONSTRUCTION AHEAD
2	W11-X3	36" X 36"	TRUCKS ENTERING

EXISTING CONDITIONS LEGEND

- 10-FT CONTOUR
- 5-FT CONTOUR
- PROPERTY LINE
- NORMAL WATER LEVEL
- STORM SEWER
- SANITARY SEWER
- WATER
- GAS
- UNDERGROUND ELECTRIC
- FENCELINE
- STORM SEWER MANHOLE
- LIGHT POLE
- DECIDUOUS TREE
- CONIFEROUS TREE
- SOIL BORING
- CONCRETE
- BITUMINOUS TRAIL

PEDESTRIAN/TRAFFIC CONTROL LEGEND

- CONSTRUCTION LIMITS
- CONSTRUCTION FENCING
- HAUL ROAD

EROSION CONTROL LEGEND

- FLOATING SILT CURTAIN — 5 SW-03
- SILT FENCE — 3 SW-03
- TREE PROTECTION FENCING — 2 SW-04
- INLET PROTECTION — 4 SW-03
- CONSTRUCTION ENTRANCE — 2 SW-03

NOTES:

1) CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES.
2) UTILITY LOCATIONS ARE APPROXIMATE. ALL UTILITIES IN THE PROJECT AREA SHOULD BE MARKED AND POTHOLED PRIOR TO EXCAVATION.
3) ALL CONSTRUCTION ACCESS, PHASING, AND STAGING TO BE COORDINATED WITH CITY.
4) A TRAFFIC/PEDESTRIAN CONTROL PLAN SHALL BE SUBMITTED BY THE CONTRACTOR. ALL TRAFFIC/PEDESTRIAN CONTROL DEVICES AND SIGNAGE SHALL CONFORM TO THE MN MUTCD, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL LAYOUTS. ALL TRAFFIC CONTROL SIGNS AND BARRICADES SHALL BE PLACED BY CONTRACTOR AND APPROVED BY THE CITY.
5) UTILITY RELOCATION TO BE COORDINATED BY CONTRACTOR PRIOR TO CONSTRUCTION
6) PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
7) EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE COMMENCING LAND DISTURBING ACTIVITIES AND SHALL NOT BE REMOVED UNTIL PERMANENT COVER HAS BEEN ESTABLISHED. SEE SWPPP
8) CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER OPERATION, MAINTENANCE, AND REGULAR INSPECTION OF ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL THE SITE IS FULLY RESTORED.
9) SOIL STOCKPILES SHALL BE STABILIZED WITH MULCH (SUCH AS STRAW MULCH, SLASH MULCH, WOOD CHIP, OR OTHER APPROPRIATE MULCH), IF SLOPES GREATER THAN 3H:1V, COVER MATERIAL WITH TARPS, PLASTIC SHEETING, OR EQUIVALENT MEASURES.
10) IF SEDIMENT IS TRACKED ONTO CITY STREETS, STREET SWEEPING SHALL BE DEPLOYED. SEDIMENT SHALL BE REMOVED BY SWEEPING WITHIN 24 HOURS.
11) FOR SWPPP, SEE SW-01 AND SW-02.
12) FOR EROSION CONTROL NOTES AND DETAILS, SEE SW-03 AND SW-04.
13) FOR SOIL BORING LOGS, SEE B-01

50% DESIGN
NOT FOR CONSTRUCTION

1 PLAN: EXISTING CONDITIONS, PED/TRAFFIC CONTROL & EROSION CONTROL

N

0 50 100
SCALE IN FEET

COORDINATE SYSTEM: HENNEPIN COUNTY
HORIZONTAL DATUM: NAD83 (2011)
VERTICAL DATUM: NAVD88

CADD USER: Greg Nelson FILE: M:\DESIGN\23271901.00\23271901.00_C01_EXISTINGCON_PEDTRAFFICCONTROL.DWG PLOT SCALE: 1:2 PLOT DATE: 2/1/2022 1:15 PM

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	ADB2	KJN2	KAL	12/10/2021	ISSUED FOR REVIEW

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PRINTED NAME

SIGNATURE

DATE LICENSE #

		A	B	C	0	1	2	3
CLIENT	12/10/21							
BID								
CONSTRUCTION								
RELEASED TO/FOR	DATE RELEASED							

BARR
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

Scale	AS SHOWN
Date	12/10/2021
Drawn	BARR
Checked	KJN2
Designed	BARR
Approved	KAL

CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

MEDLEY PARK
STORMWATER IMPROVEMENT

EXISTING CONDITIONS
PED/TRAFFIC CONTROL & EROSION CONTROL

BARR PROJECT No. 23/27-1901.00
CLIENT PROJECT No. 20-26
DWG. No. C-01
REV. No. A

PROTECT EXISTING PEDESTRIAN BRIDGE AND SURROUNDING FEATURES NOT MARKED FOR REMOVAL

ORANGE CONSTRUCTION FENCE

PROTECT CONCRETE WEIR

PROTECT TREE

CLEAR AND GRUB BRUSH AND SMALL TREES

PROTECT FENCE

PROTECT TREE

CHAIN LINK FENCE

REMOVE 31 SY OF CONCRETE AROUND BASEBALL FIELD

SB-NORTH

REMOVE SAND FROM BASEBALL FIELD

SEDIMENT REMOVED FROM MEDLEY POND IS CONTAMINATED AND SHALL BE DISPOSED OF AT A PERMITTED LANDFILL.

SED-01

SED-02

STRIP SOD AND SALVAGE TOPSOIL

REMOVE 700 LF OF UNDERGROUND ELECTRIC

REMOVE LIGHTPOLE AND FIXTURES (TYP.)

REMOVE 645 SY OF BITUMINOUS

SB-SOUTH

4" SPRUCE

4" SPRUCE

4" SPRUCE

CONIFEROUS TREE TO REMOVE AND TRANSPLANT. LOCATION TBD

STUB THE CUT END OF THE UNDERGROUND ELECTRIC TO REMAIN PER CODE

1 PLAN: REMOVALS

N

0 30 60

SCALE IN FEET

EXISTING CONDITIONS LEGEND

- 10-FT CONTOUR
- 5-FT CONTOUR
- PROPERTY LINE
- NORMAL WATER LEVEL
- STORM SEWER
- SANITARY SEWER
- WATER
- GAS
- UNDERGROUND ELECTRIC
- FENCELINE
- STORM SEWER MANHOLE
- LIGHT POLE
- DECIDUOUS TREE
- CONIFEROUS TREE
- SOIL BORING
- CONCRETE
- BITUMINOUS TRAIL

REMOVALS LEGEND

- CONSTRUCTION LIMITS
- UTILITY REMOVAL
- 4" SPRUCE — CONIFEROUS TREE TO REMOVE AND TRANSPLANT
- LIGHT POLE REMOVAL
- SAND REMOVAL
- CONCRETE REMOVAL
- BITUMINOUS REMOVAL
- CLEARING AND GRUBBING

PEDESTRIAN/TRAFFIC CONTROL LEGEND

- CONSTRUCTION FENCING
- HAUL ROAD

EROSION CONTROL LEGEND

- FLOATING SILT CURTAIN
- SILT FENCE
- TREE PROTECTION FENCING
- INLET PROTECTION
- CONSTRUCTION ENTRANCE

NOTES:

1) CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES.
2) UTILITY LOCATIONS ARE APPROXIMATE. ALL UTILITIES IN THE PROJECT AREA SHOULD BE MARKED AND POTHOLED PRIOR TO EXCAVATION.
3) UTILITY RELOCATION TO BE COORDINATED BY CONTRACTOR PRIOR TO CONSTRUCTION
4) PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
5) DEMOLITION DEBRIS SHALL BE DISPOSED AT APPROPRIATE, LICENSED LANDFILLS.
6) LIGHT POLES AND FIXTURES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED AND NEW LIGHT POLES/FIXTURES INSTALLED. FOR LIGHT POLES OUTSIDE OF DISTURBANCE LIMITS, FIXTURES SHALL BE REMOVED FROM POLES AND SHALL BE REPLACED WITH NEW FIXTURES. POLES SHALL BE PROTECTED. SEE E-01.

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CLIENT	12/10/21						
BID							
CONSTRUCTION							
	DATE RELEASED						

BARR
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

Scale	AS SHOWN
Date	12/10/2021
Drawn	BARR
Checked	KJN2
Designed	BARR
Approved	KAL

CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

MEDLEY PARK
STORMWATER IMPROVEMENT
REMOVALS

BARR PROJECT No. 23/27-1901.00
CLIENT PROJECT No. 20-26
DWG. No. C-02
REV. No. A

NOTES:

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2) UTILITY LOCATIONS ARE APPROXIMATE. ALL UTILITIES IN THE PROJECT AREA SHOULD BE MARKED AND POTHOLED PRIOR TO EXCAVATION.
3) PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
4) FOR EROSION/SEDIMENT CONTROL PLAN, SWPPP, AND DETAILS, SEE C-01, SW-01 TO SW-03.
5) FOR BITUMINOUS TRAIL PAVING PLAN, SEE C-08.
6) FOR SOIL BORING LOGS, SEE B-01.
7) FOR ELECTRICAL PLAN, SEE E-01.
8) CONTRACTOR SHALL SUBMIT DEWATERING PLAN.
9) REMOVE ALL ORGANIC VEGETATIVE SOILS AND MUCK TO CONSTRUCT BERM.

EXISTING CONDITIONS LEGEND

- 5 FT CONTOUR
- 1 FT CONTOUR
- PROPERTY LINE
- NORMAL WATER LEVEL
- STORM SEWER
- UNDERGROUND ELECTRIC
- FENCELINE
- WOOD TIMBERS
- STORM SEWER MANHOLE
- LIGHT POLE
- DECIDUOUS TREE - DIAMETER
- CONIFEROUS TREE - DIAMETER
- SOIL BORING

CONSTRUCTION LEGEND

- GRADING LIMITS
- 5 FT CONTOUR
- 1 FT CONTOUR
- SPOT ELEVATION
- BITUMINOUS TRAIL
- NORMAL WATER LEVEL
- STORM SEWER
- LIGHT POLE (1 / E-02)

PROTECT EXISTING WEIR IN CHANNEL
CHANNEL GRANITE RIPRAP MnDOT CLASS II (TYP.)
5' WIDE BERM, SEE NOTE 9.
END MITER 3A IE. 899.00
PROPOSED CONCRETE MAT EMERGENCY OVERFLOW CHANNEL
BITUMINOUS TRAIL (TYP.) (1 / C-09)
END MITER 3B IE. 898.50
60" CPEP (PIPE 3) @ 0.69%
MnDOT CLASS II RIPRAP EROSION PROTECTION (TYP.) (1 / C-10) (1 / SW-03)
SB-NORTH
POND EDGE OF WATER (TYP.)
10H:1V SAFETY BENCH (TYP.)
NORTH POND NWL 899.5 BOTTOM 894.0
OVERLOOK BENCH AND CONCRETE PAD (2 / C-09)
BERM OF 906.5
SED-01
SED-02
MEDLEY POND NWL 898.6 BOTTOM 894
END MITER 1A IE. 898.00
END MITER 1B IE. 899.50
END MITER 2A IE. 898.00
60" CPEP (PIPE 1) @ 2.40%
SOUTH POND NWL 899.5 BOTTOM 894.0
SB-SOUTH
60" CPEP PIPE 2 @ 0.00%
END MITER 2B IE. 898.00
FIND AND CLEANOUT EXISTING MEDLEY POND OUTLET PIPE
RIM 903.67
OVERLOOK BENCH AND CONCRETE PAD, ANGLE OF PAD TO BE DETERMINED BY ENGINEER IN FIELD BEFORE PLACEMENT (2 / C-09)
KINGS VALLEY POND NWL 898.6
NO GRADING ANTICIPATED IN THIS AREA
CONNECT 8' WIDE BITUMINOUS TRAIL TO EXISTING PARK TRAIL

907.40 · 907.00 · 906.66 · 905.92 · 907.00 · 908.00 · 907.00 · 911.00 · 909.00 · 908.30

1 / - PLAN: GRADING AND STORM SEWER

0 20 40
SCALE IN FEET

50% DESIGN
NOT FOR CONSTRUCTION

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	GGN	KJN2	KAL	12/10/2021	ISSUED FOR REVIEW

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Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

Scale	AS SHOWN
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Drawn	BARR
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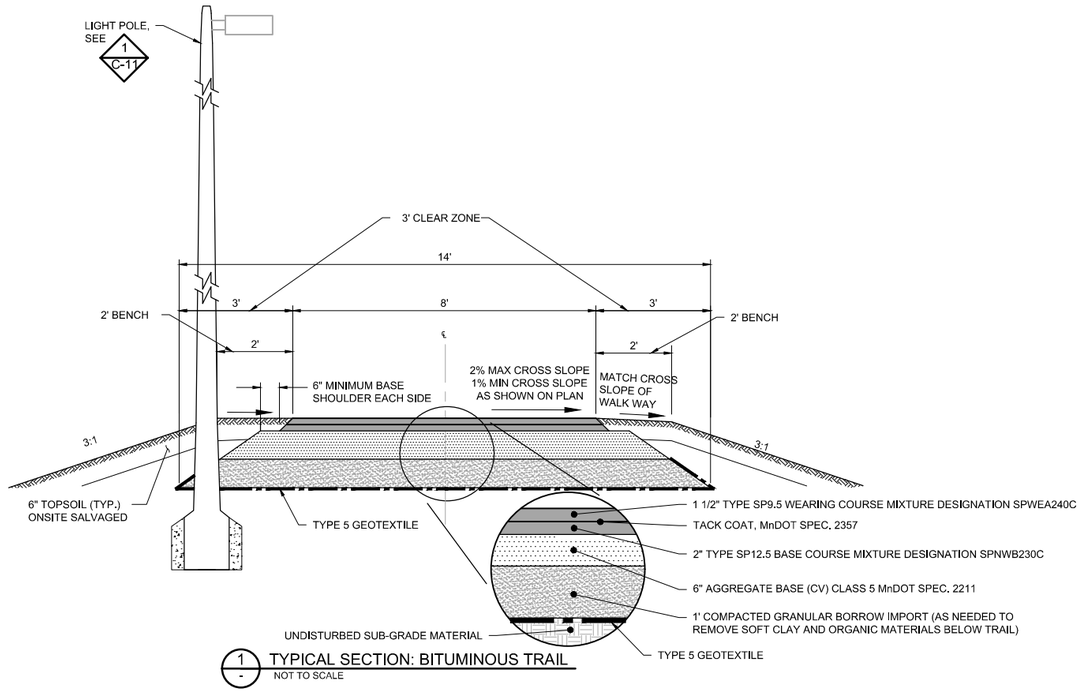
Designed	BARR
Approved	KAL

CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

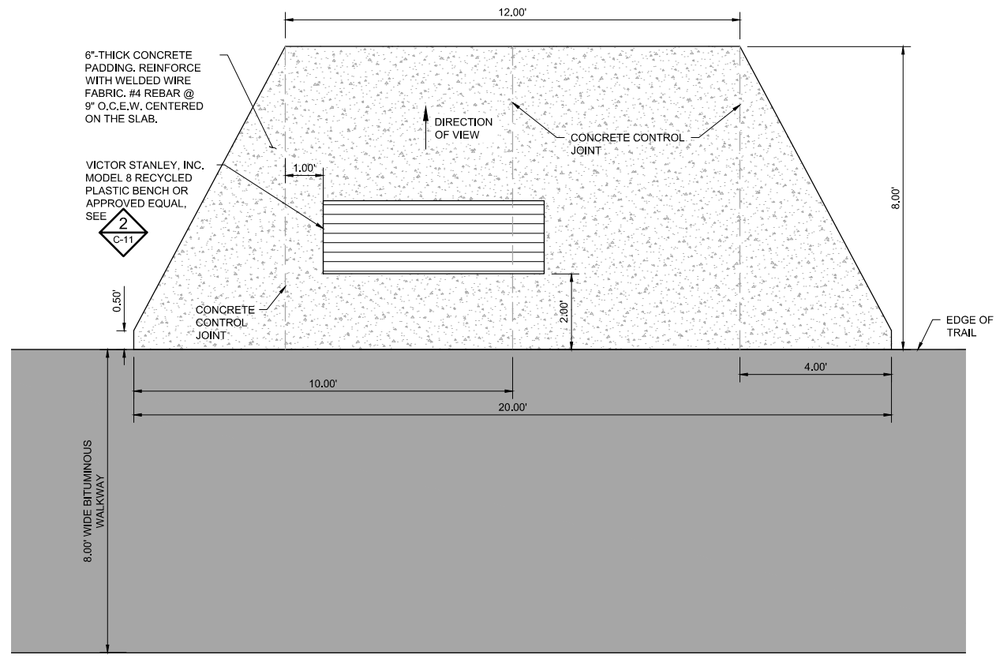
MEDLEY PARK
STORMWATER IMPROVEMENT
GRADING AND STORM SEWER PLAN

BARR PROJECT No.	
23/27-1901.00	
CLIENT PROJECT No.	
20-26	
DWG. No.	REV. No.
C-03	A

CADD USER: Greg Nelson FILE: M:\DESIGN\23271901.00\23271901.00_C03_GRADING AND STORM SEWER PLAN.DWG PLOT SCALE: 1:2 PLOT DATE: 2/2/2022 9:57 AM



1 - TYPICAL SECTION: BITUMINOUS TRAIL
NOT TO SCALE



2 - DETAIL: OVERLOOK BENCH AND CONCRETE PADDING
NOT TO SCALE

50% DESIGN
NOT FOR CONSTRUCTION

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SIGNATURE _____

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city of golden valley

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CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

MEDLEY PARK
STORMWATER IMPROVEMENT

DETAILS - BITUMINOUS TRAIL, CONCRETE PAD, AND BENCH

BARR PROJECT No.	23/27-1901.00
CLIENT PROJECT No.	20-26
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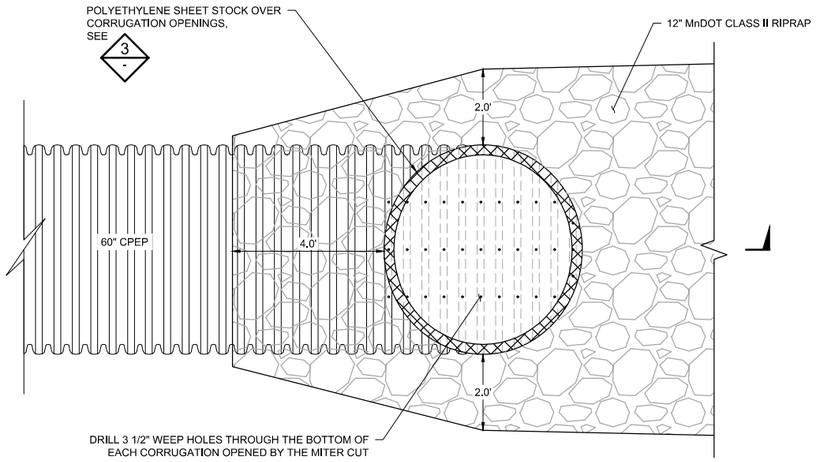
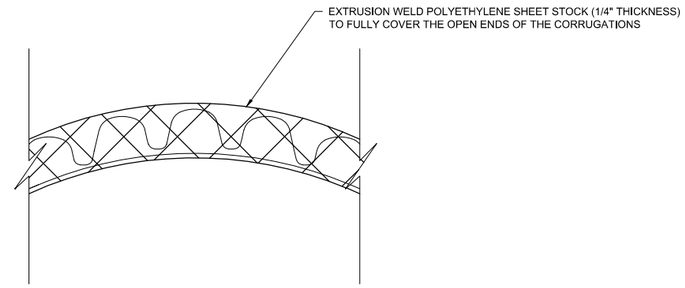
REV. No.	A

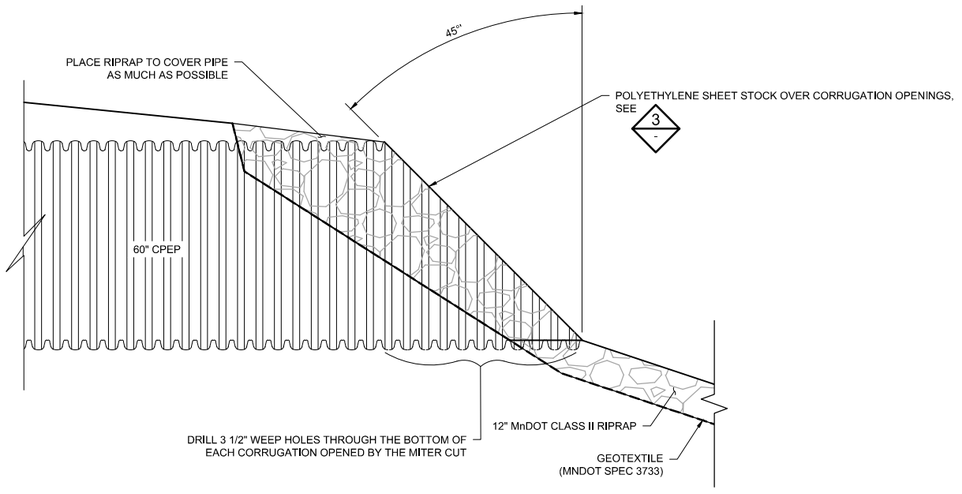


1 - PLAN: CUSTOM MITERED CPEP END SECTION

0 1 2 3 4
SCALE IN FEET

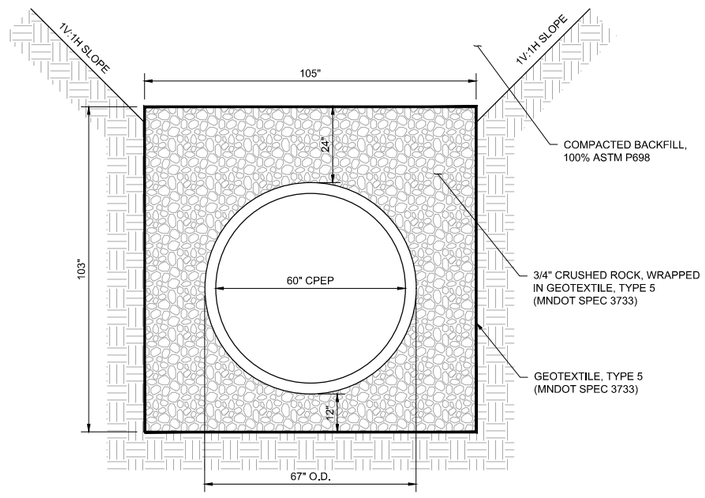


3 - DETAIL: POLYETHYLENE SHEET STOCK OVER OPENINGS IN CORRUGATIONS
NOT TO SCALE



2 - SECTION: CUSTOM MITERED CPEP END SECTION

0 1 2 3 4
SCALE IN FEET



4 - DETAIL: INSTALLATION OF 60" CORRUGATED POLYETHYLENE PIPE
NOT TO SCALE

50% DESIGN
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CONSTRUCTION								
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	DATE RELEASED							

BARR
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

Scale	AS SHOWN
Date	12/10/2021
Drawn	BARR
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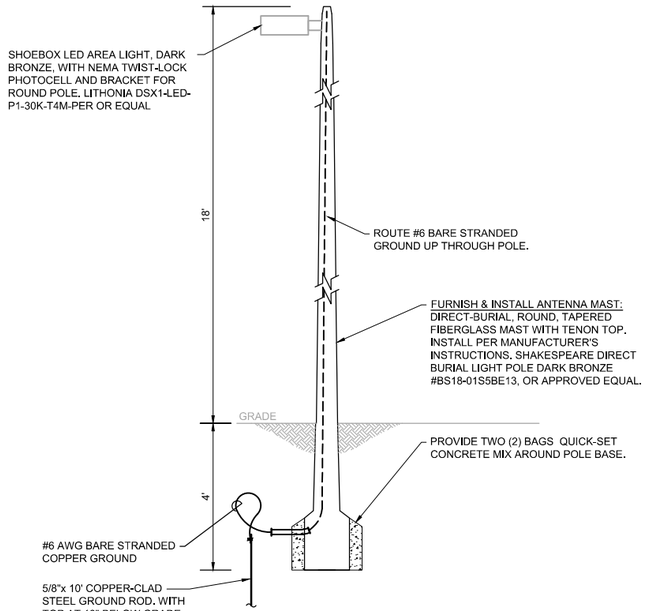
Approved	KAL

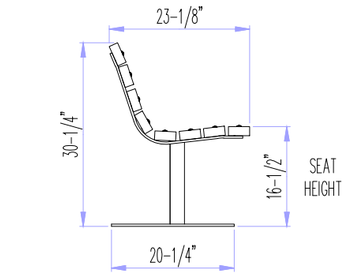
CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

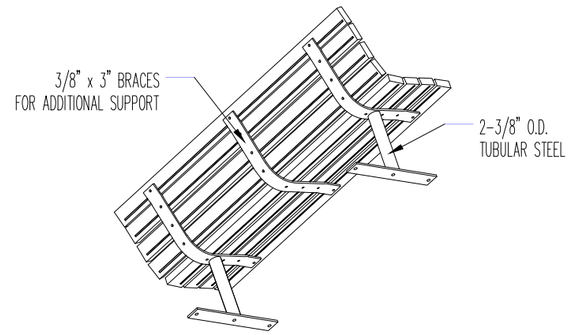
MEDLEY PARK
STORMWATER IMPROVEMENT
DETAILS - STORM SEWER

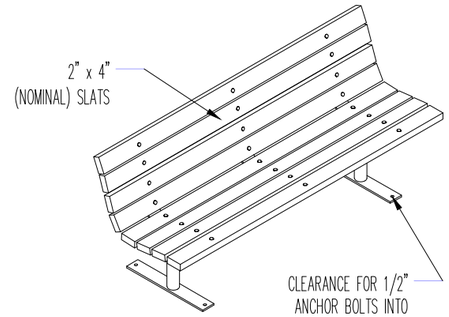
BARR PROJECT No.	23/27-1901.00
CLIENT PROJECT No.	20-26
DWG. No.	C-10
REV. No.	A

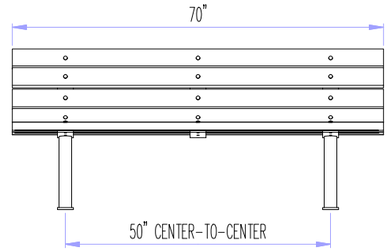


1 - DETAIL: LIGHT POLE
NOT TO SCALE









2 - DETAIL: VICTOR STANLEY, INC. MODEL 8 BENCH
NOT TO SCALE

NOTES:

1. BENCH TYPE
   - 1.1. VICTOR STANLEY, INC. MODEL 8 (HOMESTEAD COLLECTION) OR APPROVED EQUAL
     - 1.1.1. STANDARD 6-FOOT LENGTH
     - 1.1.2. STANDARD 2ND SITE SYSTEMS SLATS (RECYCLED PLASTIC)
     - 1.1.4. SLATS COLOR: MAPLE
     - 1.1.5. STANDARD SURFACE MOUNT
     - 1.1.6. NO ARM RESTS
2. WINTER SALTING CONSIDERATIONS
   - 2.1. METAL COMPONENTS OF THE BENCH SHOULD BE TREATED FOR HIGH SALT ABUSE. HOT-DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE AND PERFORMED FOR VICTOR STANLEY, INC. BY AN EXPERIENCED QUALIFIED FIRM. CONTRACTOR TO CONTACT MANUFACTURER FOR DETAILS.
3. INSTALL BENCH PER MANUFACTURER'S RECOMMENDATIONS.

90% DESIGN
NOT FOR CONSTRUCTION

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

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

PRINTED NAME _____

SIGNATURE _____

DATE _____ LICENSE # _____

CLIENT	
BID	
CONSTRUCTION	
RELEASED TO/FOR	

A	B	C	0	1	2	3

DATE RELEASED

BARR
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

Scale	AS SHOWN
Date	10/15/2021
Drawn	BARR
Checked	.
Designed	BARR
Approved	.

CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

MEDLEY PARK
STORMWATER IMPROVEMENT
DETAILS

BARR PROJECT No.	23/27-1901.00
CLIENT PROJECT No.	20-26
DWG. No.	C-11
REV. No.	A

1.0 GENERAL CONSTRUCTION ACTIVITY INFORMATION:

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED IN COMPLIANCE WITH THE MINNESOTA GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY NO. MNR100001 (GENERAL PERMIT), AS REQUIRED BY THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) PROGRAM.

THE PROJECT IS LOCATED IN THE CITY OF GOLDEN VALLEY, HENNEPIN COUNTY, MINNESOTA. PROPOSED CONSTRUCTION ACTIVITIES WILL TAKE PLACE AT MEDLEY PARK. THE APPROXIMATE CENTROID OF THE PROJECT HAS A LATITUDE OF 45.00519 AND A LONGITUDE OF -93.39679.

THIS PROJECT INVOLVES EROSION CONTROL, CONSTRUCTION OF NEW PONDS, INSTALLATION OF CULVERTS, CONSTRUCTION OF NEW PAVED TRAIL, REPLACEMENT OF LIGHT POLES AND FIXTURES, AND SITE RESTORATION. THE PROJECT AS PROPOSED HAS A TOTAL DISTURBANCE AREA OF 3.58 ACRES. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO MINIMIZE SEDIMENT FROM BEING TRANSPORTED INTO THE KINGS VALLEY POND (CITY OF GOLDEN VALLEY POND ML-2), WHICH IS NOT AN IMPAIRED WATER BODY AND FURTHER DOWNSTREAM TO MEDICINE LAKE, WHICH IS AN IMPAIRED WATER BODY. REFER TO PROJECT DRAWINGS FOR FURTHER DETAILS. (CSW PERMIT PART III.A.1)

1.1 PROJECT SIZE AND CUMULATIVE IMPERVIOUS SURFACE:

- THE ANTICIPATED AREA OF DISTURBANCE IS APPROXIMATELY 3.58 ACRES.
- THE TOTAL AREA OF PRE-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY X.XX ACRES.
- THE TOTAL AREA OF POST-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY X.XX ACRES.
- THE TOTAL NEW IMPERVIOUS AREA IS APPROXIMATELY X.XX ACRES.

1.2 DATES OF CONSTRUCTION:

ANTICIPATED START DATE: NOVEMBER, 2022. ANTICIPATED END DATE: JUNE, 2023.

1.3 CONTACT INFORMATION:

OWNER: CITY OF GOLDEN VALLEY
MAILING ADDRESS: 7800 GOLDEN VALLEY RD, GOLDEN VALLEY, MN 55427
CONTACT PERSON: JEFF OLIVER — TITLE: CITY ENGINEER
PHONE NUMBER: 763-593-8034 — EMAIL ADDRESS: JOLIVER@GOLDENVALLEYMN.GOV
ALTERNATE CONTACT PERSON: ERIC ECKMAN — TITLE: ENVIRONMENTAL RESOURCES SUPERVISOR
PHONE NUMBER: 763-593-8084 — EMAIL ADDRESS: EECKMAN@GOLDENVALLEYMN.GOV

OPERATOR / GENERAL CONTRACTOR (WILL OVERSEE IMPLEMENTATION OF THE SWPPP): TBD
MAILING ADDRESS: TBD
CONTACT PERSON: TBD — TITLE: TBD
PHONE NUMBER: TBD — EMAIL ADDRESS: TBD

PARTY RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM:
CITY OF GOLDEN VALLEY
MAILING ADDRESS: 7800 GOLDEN VALLEY RD, GOLDEN VALLEY, MN 55427
CONTACT PERSON: AL LUNDSTROM — TITLE: PARK MAINTENANCE SUPERINTENDENT
PHONE NUMBER: 763-593-8046 — EMAIL ADDRESS: ALUNDSTROM@GOLDENVALLEYMN.GOV

2.0 RECEIVING WATERS:

WATERS WITHIN ONE MILE (NEAREST STRAIGHT LINE DISTANCE) THAT ARE LIKELY TO RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE (CSW PERMIT ITEM 5.10) INCLUDE:

NAME OF WATER BODY	TYPE (1)	WATER BODY ID (2)	SPECIAL WATER? (3)	IMPAIRED WATER? (3)	PUBLIC WATER WITH WORK IN WATER RESTRICTIONS?
KINGS VALLEY POND (ML-2)	POND	-	NO	NO	NO
ML-3	POND	-	NO	NO	NO
MEDICINE LAKE	LAKE	27-0104-00	NO	YES	YES

(1) TYPE EXAMPLES: DITCH, POND, WETLAND, CALCAREOUS FEN, LAKE, STREAM, RIVER
(2) WATER BODY IDENTIFICATION (ID) MIGHT NOT BE AVAILABLE FOR ALL WATER BODIES. USE THE SPECIAL AND IMPAIRED WATERS SEARCH TOOL AT: HTTPS://WWW.PCA.STATE.MN.US/WATER/STORMWATER-SPECIAL-AND-IMPAIRED-WATERS-SEARCH
(3) REFER TO CSW PERMIT SECTION 23. IMPAIRED WATER FOR THE FOLLOWING POLLUTANT(S) OR STRESSOR(S): PHOSPHORUS (NUTRIENT EUTROPHICATION BIOLOGICAL INDICATORS), TURBIDITY, TOTAL SUSPENDED SOLIDS (TSS), DISSOLVED OXYGEN, OR AQUATIC BIOTA (FISH BIOASSESSMENT, AQUATIC PLANT BIOASSESSMENT, AND AQUATIC MACROINVERTEBRATE BIOASSESSMENT)

2.1 SPECIAL AND IMPAIRED WATERS: THE MPCA'S SPECIAL AND IMPAIRED WATERS SEARCH TOOL WAS USED TO LOCATE SPECIAL AND IMPAIRED WATERS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF THE PROJECT SITE. MEDICINE LAKE HAS AN EPA-APPROVED IMPAIRMENT FOR MERCURY IN FISH TISSUE; NUTRIENTS. THESE IMPAIRMENTS ARE CONSIDERED CONSTRUCTION RELATED AND DO REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES (BMPS) OR PLAN REVIEW FOR COMPLIANCE WITH THE GENERAL PERMIT. (CSW PERMIT ITEM 2.7 AND SECTION 23)

ADDITIONAL BMPS OR OTHER SPECIFIC CONSTRUCTION RELATED IMPLEMENTATION ACTIVITIES IDENTIFIED IN AN APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL) INCLUDE STABILIZING EXPOSED SOIL AREAS WITHIN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE TEMPORARILY OR PERMANENTLY CEASES. (CSW PERMIT ITEM 5.19)

2.2 PUBLIC WATERS WITH WORK IN WATER RESTRICTIONS: THIS PROJECT DOES NOT INCLUDE WORK IN PUBLIC WATERS. (CSW PERMIT ITEM 5.11)

2.3 WETLAND IMPACTS: THIS PROJECT MAY HAVE TEMPORARY ADVERSE IMPACTS TO WETLANDS, INCLUDING: EXCAVATION, DEGRADATION OF WATER QUALITY, DRAINING, PERMANENT INUNDATION, OR FLOODING. PERIMETER SEDIMENT CONTROLS WILL BE INSTALLED DURING CONSTRUCTION TO HELP MITIGATE WATER QUALITY DEGRADATION. THE PROJECT WILL RESULT IN A NET INCREASE IN WETLAND AREA. (CSW PERMIT ITEMS 2.4 AND 2.10, AND SECTION 22)

2.4 ENVIRONMENTAL REVIEW AND OTHER REQUIRED REVIEWS: STORMWATER MITIGATION MEASURES ARE NOT REQUIRED AS A RESULT OF AN ENVIRONMENTAL REVIEW (E.G., EAW OR EIS), ENDANGERED OR THREATENED SPECIES REVIEW, ARCHEOLOGICAL SITE REVIEW, OR OTHER LOCAL, STATE, OR FEDERAL REVIEW CONDUCTED FOR THE PROJECT. (CSW PERMIT ITEMS 2.8, 2.9, AND 5.16)

2.5 KARST AREAS OR DRINKING WATER SUPPLY MANAGEMENT AREAS: THIS PROJECT DOES NOT INCLUDE ANY KARST OR DRINKING WATER SUPPLY MANAGEMENT AREAS. (CSW PERMIT ITEMS 16.19, 16.20, AND 18.10)

3.0 PROJECT PLANS AND SPECIFICATIONS:

REQUIRED FEATURE	SHEET NUMBER
• PROJECT LOCATION AND CONSTRUCTION LIMITS	G-01, C-01
• EXISTING AND FINAL GRADES, INCLUDING DRAINAGE AREA BOUNDARIES, DIRECTIONS OF FLOW AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING THE SITE OR ENTERING A SURFACE WATER	C-01, C-03
• SOIL TYPES AT THE SITE	B-01
• LOCATIONS OF IMPERVIOUS SURFACES	C-01, C-03
• LOCATIONS OF AREAS NOT BE BE DISTURBED (E.G., BUFFER ZONES, WETLANDS, ETC.)	C-01
• LOCATIONS OF AREAS OF STEEP SLOPES	C-01, C-03
• LOCATIONS OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOILS	C-03
• PORTIONS OF THE SITE THAT DRAIN TO A PUBLIC WATER WITH DNR WORK IN WATER RESTRICTIONS FOR FISH SPAWNING TIMEFRAMES	N/A
• LOCATIONS OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS AS REQUIRED IN PERMIT SECTIONS 8 THROUGH 10 AND 14 THROUGH 19	C-01,L-01
• BUFFER ZONES AS REQUIRED IN PERMIT ITEMS 9.17 AND 23.11	N/A
• LOCATIONS OF POTENTIAL POLLUTION-GENERATING ACTIVITIES IDENTIFIED IN PERMIT SECTION 12	N/A
• STANDARD DETAILS FOR EROSION AND SEDIMENT CONTROL BMPS TO BE INSTALLED AT THE SITE	SW-03,04

4.0 BEST MANAGEMENT PRACTICES (BMPS):

4.1 EROSION PREVENTION PRACTICES:

1. BEFORE LAND DISTURBING ACTIVITIES BEGIN, THE LIMITS OF THE AREAS TO BE DISTURBED DURING CONSTRUCTION WILL BE DELINEATED WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.
2. TEMPORARY STABILIZATION OF SOILS AND SOIL STOCKPILES: (CSW PERMIT ITEMS 8.4, 8.5, AND 23.9)
   a. AREAS OF EXPOSED SOIL WILL BE STABILIZED WITH EROSION CONTROL BLANKET, PRESERVATION OF MATURE VEGETATION, MULCH, VEGETATIVE SLASH OR EQUIVALENT MEASURES.
   b. IF PRESENT, SOIL STOCKPILES WILL BE STABILIZED WITH MULCH (SUCH AS STRAW MULCH, SLASH MULCH, WOOD CHIP, OR OTHER APPROPRIATE MULCH (IF SLOPES ≤3H:1V), COVER MATERIAL SUCH AS TARPS, PLASTIC SHEETING OR EQUIVALENT MEASURES.
   c. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY, OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) AND THE CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS, AND SIMILAR SURFACES ARE EXEMPT FROM THESE STABILIZATION REQUIREMENTS.
2. STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS: (CSW PERMIT ITEMS 8.6 THROUGH 8.8)
   a. IF SOILS WITHIN EXISTING STORMWATER DITCHES OR SWALES ARE DISTURBED, THEY WILL BE STABILIZED WITH CHANNEL EROSION CONTROL BLANKET, TURF REINFORCEMENT MAT OR EQUIVALENT MEASURES.
   b. MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE, OR SIMILAR EROSION PREVENTION PRACTICES WILL NOT BE USED TO STABILIZE ANY PART OF AN EXISTING STORMWATER DITCH OR SWALE WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT.
   c. THE LAST 200 LINEAL FEET OF LENGTH OF THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WILL BE STABILIZED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE.
   d. STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES WILL BE COMPLETED WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED.
3. ENERGY DISSIPATION AT PIPE OUTLETS: ENERGY DISSIPATION AT PIPE OUTLETS WILL BE PROVIDED WITH ONE OR MORE OF THE FOLLOW METHODS: RIP RAP, SPLASH PADS, GABIONS, OR EQUIVALENT MEASURES. (CSW PERMIT ITEM 8.9)
4. EROSION PREVENTION IMPLEMENTATION TIMELINES: (CSW PERMIT ITEMS 5.4, 8.4 THROUGH 8.6, AND 23.9)
   a. STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WILL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
   b. IF THE EXPOSED SOIL AREAS DRAIN TO A DISCHARGE POINT THAT IS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF A SPECIAL OR IMPAIRED WATER (SEE SECTION 2.0), STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WILL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS.
   c. THE FOLLOWING ACTIVITIES CAN BE TAKEN TO INITIATE STABILIZATION: PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION, APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA, OR SEEDING OR PLANTING THE EXPOSED AREA.
5. ADDITIONAL EROSION PREVENTION MEASURES: THE FOLLOWING ADDITIONAL EROSION PREVENTION METHODS WILL BE IMPLEMENTED AT THE SITE DURING CONSTRUCTION: (CSW PERMIT ITEMS 8.2, 8.3, AND 8.10)
   a. CONSTRUCTION PHASING WILL BE UTILIZED TO MINIMIZE THE AREA OF SOIL EXPOSED AT ANY ONE TIME.
   b. SOIL DISTURBANCE WILL BE MINIMIZED WHEREVER POSSIBLE TO AID IN EROSION PREVENTION.
   c. EXISTING VEGETATION WILL BE PRESERVED WHEREVER POSSIBLE TO LIMIT EXPOSED SOIL AND THUS WILL SERVE AS NATURAL VEGETATIVE BUFFERS.
   d. EXPOSED SOIL ON STEEP SLOPES (≤3H:1V) WILL BE STABILIZED USING EROSION CONTROL BLANKETS AND SEEDING.
   e. HORIZONTAL SLOPE GRADING WILL BE UTILIZED TO MINIMIZE EROSION POTENTIAL.
   f. TERRACING WILL BE USED TO MINIMIZED EROSION POTENTIAL.

4.2 SEDIMENT CONTROL PRACTICES:

1. DOWNGRADIENT PERIMETER CONTROLS: (CSW PERMIT ITEMS 9.2 THROUGH 9.6)
   a. SEDIMENT CONTROL PRACTICES WILL BE ESTABLISHED ON ALL DOWNGRADIENT PERIMETERS AND LOCATED UPGRADIENT OF ANY BUFFER ZONES. PERIMETER SEDIMENT CONTROLS WILL INCLUDE: SILT FENCE, SEDIMENT CONTROL LOGS / BIOROLLS (FILLED WITH COMPOST, WOOD CHIPS, ROCK, ETC.), VEGETATIVE SLASH BARRIERS, OTHER NATIVE MATERIAL BARRIERS, VEGETATIVE BUFFERS (RETAIN EXISTING VEGETATION WHERE POSSIBLE), EARTHEN BERMS OR EQUIVALENT MEASURES.
   b. PERIMETER SEDIMENT CONTROL PRACTICES MUST BE INSTALLED BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND REMAIN IN PLACE UNTIL PERMANENT COVER HAS BEEN ESTABLISHED.
   c. IF SEDIMENT CONTROL PRACTICES HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES (SUCH AS CLEARING, GRUBBING, OR PASSAGE OF VEHICLES), THE CONTROLS MUST BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE RE-INSTALLED BEFORE THE NEXT PRECIPITATION EVENT, EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.
   d. IF THE DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENT), INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES.
2. SOIL STOCKPILE PERIMETER CONTROLS: TEMPORARY SOIL STOCKPILES WILL BE SURROUNDED BY: SILT FENCE, SEDIMENT CONTROL LOGS / BIOROLLS (FILLED WITH COMPOST, WOOD CHIPS, ROCK, ETC.) OR EQUIVALENT MEASURES, AND SHALL NOT BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATERS.(CSW PERMIT ITEMS 9.9 AND 9.10)
3. STORM DRAIN INLET PROTECTION: (CSW PERMIT ITEMS 9.7 AND 9.8)
   a. INLET PROTECTION BMPS WILL BE INSTALLED AROUND ALL STORM DRAIN INLETS DOWNGRADIENT OF CONSTRUCTION ACTIVITIES.
   b. STORM DRAIN INLETS WILL BE PROTECTED UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.
   c. INLET PROTECTION BMPS WILL BE: SEDIMENT CONTROL LOG, FILTER SACK, ROCK WITH FILTER FABRIC, FILTER FENCE BOX OR EQUIVALENT MEASURES.
4. VEHICLE TRACKING BMPS: (CSW PERMIT ITEMS 9.11 AND 9.12)
   a. VEHICLE TRACKING BMPS WILL BE INSTALLED TO MINIMIZE THE TRACKING OUT OF SEDIMENT FROM THE CONSTRUCTION AREA AND WILL INCLUDE: ROCK PADS, MUD MATS, OR STEEL WASH RACKS OR AN EQUIVALENT SYSTEM.
   b. IF SUCH VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE PAVED ROAD, STREET SWEEPING WILL ALSO BE EMPLOYED. SEDIMENT WILL BE REMOVED BY SWEEPING WITHIN 24 HOURS.
5. PROTECTION OF INFILTRATION AREAS: IF NECESSARY, ADDITIONAL SEDIMENT CONTROLS (E.G., DIVERSION BERMS) WILL BE INSTALLED TO KEEP RUNOFF AWAY FROM PLANNED INFILTRATION AREAS WHEN EXCAVATED PRIOR TO ESTABLISHING PERMANENT COVER WITHIN THE CONTRIBUTING DRAINAGE AREA. (CSW PERMIT ITEMS 16.4 AND 16.5)
6. MINIMIZATION OF SOIL COMPACTION AND PRESERVATION OF TOPSOIL: SOIL COMPACTION WILL BE MINIMIZED AND TOPSOIL WILL BE PRESERVED WHERE POSSIBLE. (CSW PERMIT ITEMS 5.24, 9.14, AND 9.15)
7. PRIORITIZATION OF ONSITE INFILTRATION AND SEDIMENT REMOVAL: (CSW PERMIT ITEM 9.16)
   a. PRIOR TO OFFSITE DISCHARGE, INFILTRATION AND SEDIMENT REMOVAL WILL BE IMPLEMENTED ONSITE WHERE POSSIBLE.
   b. DISCHARGES FROM BMPS WILL BE DIRECTED TO VEGETATED AREAS OF THE SITE (INCLUDING ANY NATURAL BUFFERS) IN ORDER TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION. IF EROSION IS NOTED TO OCCUR AS THE RESULT OF SUCH A DISCHARGE, VELOCITY DISSIPATION BMPS WILL BE CONSIDERED AND INSTALLED AS NECESSARY TO PREVENT EROSION.
8. BUFFER ZONE OR REDUNDANT SEDIMENT CONTROLS TO PROTECT SURFACE WATERS: (CSW PERMIT ITEM 9.17)
   a. A 50-FOOT NATURAL BUFFER WILL BE PRESERVED IN CONSTRUCTION AREAS DISCHARGING TO A NON-SPECIAL/NON-IMPAIRED SURFACE WATER OR WETLAND. IF A NON-SPECIAL/NON-IMPAIRED SURFACE WATER OR WETLAND IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, OR WHEN A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS WILL BE PROVIDED.
   b. A 100-FOOT NATURAL BUFFER WILL BE PRESERVED IN CONSTRUCTION AREAS DISCHARGING TO A SPECIAL OR IMPAIRED SURFACE WATER. IF A SPECIAL OR IMPAIRED SURFACE WATER IS LOCATED WITHIN 100 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, OR WHEN A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS WILL BE PROVIDED.
   c. REDUNDANT PERIMETER CONTROLS WILL BE INSTALLED AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE.
9. SEDIMENTATION TREATMENT CHEMICALS: NOT APPLICABLE; USE OF SEDIMENTATION TREATMENT CHEMICALS (E.G., POLYMERS, FLOCCULANTS, ETC.) IS NOT ANTICIPATED AS PART OF THE PROJECT. (CSW PERMIT ITEMS 5.22 AND 9.18)
10. TEMPORARY SEDIMENT BASIN(S): THE PROJECT WILL NOT INCLUDE 10 OR MORE ACRES OF DISTURBED SOIL DRAINING TO A COMMON LOCATION OR 5 OR MORE ACRES DRAINING TO A COMMONLOCATION WITHIN 1 MILE OR A SPECIAL OR IMPAIRED WATER THEREFORE TEMPORARY SEDIMENT BASINS ARE NOT REQUIRED. (CSW PERMIT ITEMS 5.6, 9.13, AND 23.10 AND SECTION 14)

4.3 DEWATERING AND BASIN DRAINING: (CSW PERMIT SECTION 10 AND ITEM 10.5)

   a. THE FOLLOWING WILL BE USED TO TREAT/DISPOSE OF TURBID OR SEDIMENT-LADEN WATER DURING DEWATERING OR BASIN DRAINING: IN-STREAM SILT FENCE, ROCK CHECKS, SEDIMENT FILTER BAGS OR EQUIVALENT MEASURES.
   b. THE FOLLOWING WILL BE USED TO PREVENT EROSION OR SCOUR OF DISCHARGE POINTS DURING DEWATERING OR BASIN DRAINING: IN-STREAM SILT FENCE, ROCK CHECKS, SEDIMENT FILTER BAGS OR EQUIVALENT MEASURES.
   c. NOT APPLICABLE: FILTERS FOR BACKWASH WATER

4.4 BMP DESIGN FACTORS:

THE FOLLOWING BMP DESIGN FACTORS HAVE BEEN CONSIDERED IN DESIGNING THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL BMPS:

1. EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION: APPROXIMATELY 2.5 INCHES OF PRECIPITATION FROM THE 1-YEAR, 24-HOUR STORM EVENT (NOAA ATLAS 14)
2. NATURE OF STORMWATER RUNOFF AND RUN-ON AT THE SITE, INCLUDING FACTORS SUCH AS EXPECTED FLOW FROM IMPERVIOUS SURFACES, SLOPES, AND SITE DRAINAGE FEATURES: THE SITE ACCUMULATES RUNOFF FROM MANY SIDE SLOPES. CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENTATION CONTROL DEVICES TO HANDLE THIS SITE RUNOFF.
3. STORMWATER VOLUME, VELOCITY, AND PEAK FLOW RATES TO MINIMIZE DISCHARGE OF POLLUTANTS IN STORMWATER AND TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS: PEAK FLOW RATES AND TOTAL STORMWATER VOLUME SHOULD NOT BE INCREASED DURING THIS PROJECT. STORMWATER CHANNELIZATION IS ANTICIPATED. CHANNELIZED FLOW WILL BE ROUTED TO VEGETATED AREAS WHERE APPROPRIATE.
4. RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT: CLAY, SANDY CLAY, SANDY SILT, SILTY SAND, SAND, GRAVEL.

4.5 BMP QUANTITIES: ANTICIPATED EROSION PREVENTION AND SEDIMENT CONTROL BMP QUANTITIES NEEDED FOR THE LIFE OF THE PROJECT: SEE PLANS AND SPECIFICATIONS/BID FORM

(SEE PAGE 2 OF 2)

50% DESIGN
NOT FOR CONSTRUCTION

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	ADB2	KJN2	KAL	12/10/2021	ISSUED FOR REVIEW

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINTED NAME _____
SIGNATURE _____
DATE _____ LICENSE # _____

	12/10/21						
CLIENT							
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
	DATE RELEASED						

BARR
Corporate Headquarters: Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

Scale	AS SHOWN
Date	12/10/2021
Drawn	ADB2
Checked	KJN2
Designed	BARR
Approved	KAL

CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

MEDLEY PARK
STORMWATER IMPROVEMENT

STORM WATER POLUTION PREVENTION PLAN (SWPPP) PAGE 1 OF 2

BARR PROJECT No.	23/27-1901.00
CLIENT PROJECT No.	20-26
DWG. No.	SW-01
REV. No.	A

5.0 PERMANENT STORMWATER MANAGEMENT SYSTEM:

A PERMENANCT STORMWATER MANAGEMENT SYSTEM IS REQUIRED IF THE PROJECT RESULTS IN ONE ACRE OR MORE OF NEW IMPERVIOUS SURFACES OR RESULTS IN A NET INCREASE OF ONE OR MORE ACRES OF CUMMULATIVE NEW IMPERVIOUS SURFACES IN TOTAL OR IF THE PROJECT IS PART OF A LARGER PLAN OF DEVELOPMENT. (CSW PERMIT ITEM 15.3)

5.1 A PERMANENT STORMWATER TREATMENT SYSTEM IS NOT REQUIRED. (CSW PERMIT ITEMS 5.15, 15.4-15.9, AND 23.14)

5.2 THIS IS NOT A LINEAR PROJECT WITH LACK OF RIGHT OR WAY. (CSW PERMIT ITEM 15.9)

5.3 THIS PROJECT DOES NOT DISCHARGE TO A TROUT STREAM (OR A TRIBUTARY TO A TROUT STREAM). (CSW PERMIT ITEM 23.12)

6.0 INSPECTION AND MAINTENANCE ACTIVITIES:

6.1 PERSONS WITH REQUIRED TRAINING: TRAINED INDIVIDUALS INCLUDE THOSE PARTIES RESPONSIBLE FOR INSTALLING, SUPERVISING, REPAIRING, INSPECTING, AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL BMPS AT THE SITE. TRAINED INDIVIDUALS ARE ALSO RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND COMPLIANCE WITH THE GENERAL PERMIT UNTIL THE CONSTRUCTION ACTIVITIES ARE COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED, AND A NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED. (CSW PERMIT ITEMS 5.20, 5.21, AND 11.9 AND SECTION 21)

THESE INDIVIDUALS WILL BE TRAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL PERMIT, INCLUDING THE REQUIREMENT THAT THE CONTENT AND EXTENT OF TRAINING WILL BE COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES.

BELOW IS A LIST OF PEOPLE RESPONSIBLE FOR THIS PROJECT WHO ARE KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS.

TRAINED INDIVIDUAL	RESPONSIBILITY	TRAINING ENTITY*	TRAINING DATE
ALEC BATEMAN	PREPARATION OF THE SWPPP	UNIVERSITY OF MINNESOTA	APRIL, 2021
TBD	OVERSIGHT OF SWPPP IMPLEMENTATION, REVISION, AND AMMENDMENT	TBD	TBD
TBD	PERFORMANCE OF SWPPP INSPECTIONS	TBD	TBD
TBD	PERFORMANCE OR SUPERVISION OF INSTALLATION, MAINTENANCE, AND REPAIR OF BMPS	TBD	TBD

*TRAINING DOCUMENTATION AVAILABLE UPON REQUEST.

6.2 FREQUENCY OF INSPECTIONS: A TRAINED PERSON WILL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE. (CSW PERMIT ITEMS 11.2, 11.10, AND 23.13)

- AT LEAST ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION
- WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS

INSPECTION FREQUENCY MAY BE ADJUSTED UNDER THE FOLLOWING CIRCUMSTANCES:

- WHERE PARTS OF THE CONSTRUCTION AREAS HAVE PERMANENT COVER, BUT WORK REMAINS ON OTHER PARTS OF THE SITE, INSPECTIONS OF THE AREAS WITH PERMANENT COVER MAY BE REDUCED TO ONCE PER MONTH.
- WHERE CONSTRUCTION AREAS HAVE PERMANENT COVER AND NO CONSTRUCTION ACTIVITY IS OCCURRING ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES.
- WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE INSPECTIONS MAY BE SUSPENDED. THE REQUIRED INSPECTIONS AND MAINTENANCE SCHEDULE MUST BEGIN WITHIN 24 HOURS AFTER RUNOFF OCCURS AT THE SITE OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.

6.3 INSPECTION REQUIREMENTS: EACH CONSTRUCTION STORMWATER SITE INSPECTION WILL INCLUDE INSPECTION OF THE FOLLOWING AREAS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

- ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES
- SURFACE WATERS FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION
- CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING
- STREETS AND OTHER AREAS ADJACENT TO THE PROJECT FOR EVIDENCE OF OFF SITE ACCUMULATIONS OF SEDIMENT

6.4 MAINTENANCE REQUIREMENTS: MAINTENANCE OF THE FOLLOWING AREAS AND BMPS WILL BE PERFORMED AS FOLLOWS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

- NONFUNCTIONAL BMPS WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- PERIMETER CONTROL DEVICES WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE.
- TEMPORARY AND PERMANENT SEDIMENTATION BASINS WILL BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME.
- DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS WILL BE REMOVED, AND THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL WILL BE RE-STABILIZED. THE REMOVAL AND STABILIZATION WILL BE COMPLETED WITHIN 7 CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. IF PRECLUDED DUE TO ACCESS CONSTRAINTS, REASONABLE EFFORTS TO OBTAIN ACCESS WILL BE USED. REMOVAL AND STABILIZATION WILL TAKE PLACE WITHIN 7 CALENDAR DAYS OF OBTAINING ACCESS.
- TRACKED SEDIMENT ON PAVED SURFACES WILL BE REMOVED WITHIN 1 CALENDAR DAY OF DISCOVERY.
- AREAS UNDERGOING STABILIZATION WILL BE RESTABILIZED AS NECESSARY TO ACHIEVE REQUIRED COVER.

6.5 RECORDKEEPING REQUIREMENTS: (CSW PERMIT ITEMS 11.11 AND 24.5 AND SECTIONS 6 AND 20)

1. ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WILL BE RECORDED IN WRITING WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS WILL BE RETAINED WITH THE SWPPP. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY WILL INCLUDE THE DATE AND TIME; NAME OF INSPECTOR(S); FINDINGS OF INSPECTIONS; CORRECTIVE ACTIONS (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND DATE OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS AND THE AMOUNT OF RAINFALL FOR EACH EVENT.
   a. IF ANY DISCHARGE IS OBSERVED DURING THE INSPECTION, THE LOCATION AND APPEARANCE OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS) WILL BE DOCUMENTED AND A PHOTOGRAPH WILL BE TAKEN.
2. THE SWPPP WILL BE AMENDED TO INCLUDE ADDITIONAL OR MODIFIED BMPS TO CORRECT PROBLEMS OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER, OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER.
   a. THE SWPPP WILL BE AMENDED WHEN INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER, OPERATOR, OR CONTRACTORS OR BY USEPA/MPCA OFFICIALS INDICATE THAT THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER; THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES; OR THE SWPPP IS NOT CONSISTENT WITH A USEPA APPROVED TMDL.
   b. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION WILL BE DOCUMENTED AS REQUIRED WITHIN 7 CALENDAR DAYS.
   c. AMENDMENTS WILL BE COMPLETED BY AN APPROPRIATELY TRAINED INDIVIDUAL. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP WILL INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.
3. RECORDS RETENTION: THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTION AND MAINTENANCE RECORDS WILL BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THE SITE. THE SWPPP CAN BE KEPT IN EITHER A FIELD OFFICE OR IN AN ON SITE VEHICLE DURING NORMAL WORKING HOURS.
4. RECORD AVAILABILITY: THE PERMITTEES WILL MAKE THE SWPPP, INCLUDING INSPECTION REPORTS, MAINTENANCE RECORDS, AND TRAINING RECORDS, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT COVERAGE AND FOR THREE YEARS FOLLOWING THE NOTICE OF TERMINATION.

7.0 POLLUTION PREVENTION MEASURES:

1. ANY CONSTRUCTION PRODUCTS AND LANDSCAPE MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.2)
2. PESTICIDES, FERTILIZERS, AND TREATMENT CHEMICALS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING, TEMPORARY ROOFS, WITHIN A BUILDING, OR IN WEATHER-PROOF CONTAINERS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.3)
3. HAZARDOUS MATERIALS AND TOXIC WASTE (E.G., OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) WILL BE STORED AND DISPOSED OF IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7045, INCLUDING SECONDARY CONTAINMENT (AS APPLICABLE). HAZARDOUS MATERIALS WILL BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGES AND PREVENT PRECIPITATION FROM FALLING ONTO THE CONTAINERS OR STORED HAZARDOUS MATERIALS. (CSW PERMIT ITEMS 2.3 AND 12.4)
4. SOLID WASTE WILL BE COLLECTED, STORED, AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7035. THIS INCLUDES STORAGE WITHIN COVERED TRASH CONTAINERS AND DAILY REMOVAL OF LITTER AND DEBRIS. STORAGE OF SOLID WASTE WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.5)
5. PORTABLE TOILETS WILL BE LOCATED AWAY FROM SURFACE WATERS AND POSITIONED AND SECURED TO THE GROUND SO THEY WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE WILL BE DISPOSED OF IN ACCORDANCE WITH MINNESOTA RULES, CHAPTER 7041. PORTABLE TOILETS WILL BE PERIODICALLY EMPTIED AND THE WASTE HAULED OFF-SITE BY A LICENSED HAULER. (CSW PERMIT ITEM 12.6)
6. VEHICLE FUELING WILL ONLY OCCUR IN DESIGNATED AREAS. SPILL KITS SIZED APPROPRIATELY FOR THE AMOUNT OF REFUELING TAKING PLACE WILL BE LOCATED. SPILL KITS WILL BE CLEARLY LABELED AND CONTAIN MATERIALS TO ASSIST IN SPILL CLEANUP INCLUDING ABSORBENT PADS, BOOMS FOR CONTAINING SPILLS, AND HEAVY-DUTY PROTECTIVE GLOVES. SPILLS WILL BE REPORTED TO THE MINNESOTA DUTY OFFICER AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061. (CSW PERMIT ITEMS 2.3 AND 12.7)
   a. ANY FUEL TANKS BROUGHT ON-SITE WILL HAVE PROPERLY SIZED CONTAINMENT AND WILL NOT BE TOPPED OFF TO AVOID SPILLS FROM OVERFILLING. FUEL TANKS WILL MEET INDUSTRY STANDARDS (DESIGNED TO HOLD FUEL TYPE, PROPERLY MAINTAINED, NOT ILLEGALLY MODIFIED, NOT MISSING LEAK INDICATOR FLOATS FOR DOUBLE WALLED TANKS, SIGHT GAUGES NOT USED, ETC.) OR BE REMOVED FROM THE WORK AREA.
   b. GUIDELINES FOR SPILL PREVENTION AND RESPONSE INCLUDE:
      - TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED, INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFEASIBLE;
      - PERFORM REGULAR PREVENTATIVE MAINTENANCE ON TANKS AND FUEL LINES;
      - INSPECT PUMPS, CYLINDERS, HOSES, VALVES, AND OTHER MECHANICAL EQUIPMENT ON-SITE FOR DAMAGE OR DETERIORATION;
      - DO NOT WASH OR RINSE FUELING AREAS WITH WATER;
      - MAINTAIN ADEQUATE SUPPLIES TO CLEAN UP DISCHARGED MATERIALS AND PROVIDE AN APPROPRIATE DISPOSAL METHOD FOR RECOVERED SPILLED MATERIALS;
      - REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE; AND
      - MAINTAIN COPIES OF SAFETY DATA SHEETS (SDSS) FOR HAZARDOUS MATERIALS ON-SITE IN LOCATIONS READILY AVAILABLE TO EMERGENCY RESPONDERS.
7. IF VEHICLE AND EQUIPMENT WASHING IS NECESSARY, A VEHICLE WASH STATION WILL BE LOCATED IN A DESIGNATED AREA. RUNOFF FROM THE WASHING AREA WILL BE CONTAINED IN A SEDIMENT BASIN AND WASTE FROM THE WASHING ACTIVITY WILL BE PROPERLY DISPOSED OF. ANY SOAPS, DETERGENTS, OR SOLVENTS WILL BE PROPERLY USED AND STORED. ANY DETERGENTS AND OTHER CLEANERS NOT PERMITTED FOR DISCHARGE WILL NOT BE USED. (CSW PERMIT ITEMS 2.3 AND 12.8)
8. THE PROJECT WILL NOT RESULT IN CONCRETE OR OTHER WASHOUT ACTIVITIES. IF NECESSARY, A DESCRIPTION OF THE STORAGE AND DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES SO THAT WASTES DO NOT CONTACT THE GROUND WILL BE ADDED. (CSW PERMIT ITEMS 2.3 AND 12.9)

8.0 PERMANENT COVER AND PERMIT TERMINATION CONDITIONS:

1. THE AREAS DISTURBED DURING CONSTRUCTION WILL BE STABILIZED WITH PERMANENT COVER UPON COMPLETION OF WORK. PERMANENT COVER MAY BE VEGETATIVE OR NON-VEGETATIVE, AS APPROPRIATE. ESTABLISHMENT OF PERMANENT COVER MAY INCLUDE THE FOLLOWING ACTIVITIES: A COMBINATION OF SEEDING, MULCHING, EROSION CONTROL BLANKETS, AND/OR PLACEMENT OF IMPERVIOUS SURFACES. (CSW PERMIT ITEM 5.17)
2. FOR A CONSTRUCTION-SITE TO ACHIEVE "PERMANENT COVER", THE FOLLOWING REQUIREMENTS MUST BE COMPLETED PRIOR TO TERMINATION OF PERMIT COVERAGE: (CSW PERMIT SECTIONS 4 AND 13)
   a. ALL SOIL DISTURBING CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND PERMANENT COVER HAS BEEN INSTALLED OVER ALL AREAS. VEGETATIVE COVER CONSISTS OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70% OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION (SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER).
   b. ALL SEDIMENT HAS BEEN REMOVED FROM CONVEYANCE SYSTEMS, INCLUDING CULVERTS.
   c. ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS HAVE BEEN REMOVED. BMPS DESIGNED TO DECOMPOSE ON-SITE MAY BE LEFT IN PLACE.

WITHIN 30 DAYS AFTER THE TERMINATION CONDITIONS ARE COMPLETE, A NOTICE OF TERMINATION (NOT) FORM WILL BE SUBMITTED TO THE MPCA.

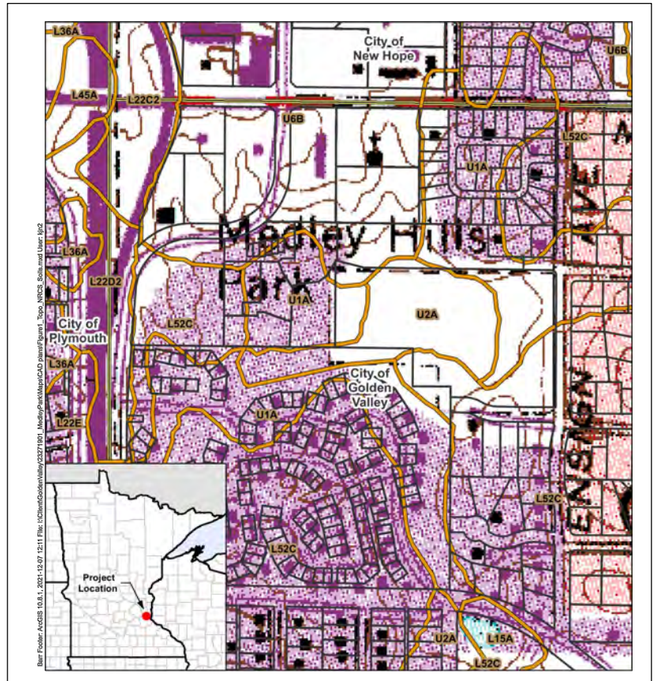


Figure 1

TOPOGRAPHIC MAP WITH SURFACE WATERS AND SOIL TYPES
Stormwater Pollution Prevention Plan
Hennepin County, Minnesota

50% DESIGN
NOT FOR CONSTRUCTION

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	ADB2	KJN2	KAL	12/10/2021	ISSUED FOR REVIEW

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINTED NAME
SIGNATURE
DATE _____ LICENSE # _____

	12/10/21						
CLIENT							
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
	DATE RELEASED						

BARR
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

Scale	AS SHOWN
Date	12/10/2021
Drawn	ADB2
Checked	KJN2
Designed	BARR
Approved	KAL

CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

MEDLEY PARK
STORMWATER IMPROVEMENT
STORM WATER POLUTION PREVENTION PLAN (SWPPP) PAGE 2 OF 2

BARR PROJECT No.	23/27-1901.00
CLIENT PROJECT No.	20-26
DWG. No.	SW-02
REV. No.	A

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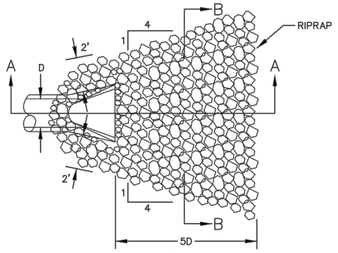


NOTE:

FOR EXACT RIPRAP QUANTITES REFER TO MNDOT STANDARD PLATES M3133B, 3133C, AND 3134C.

GRANULAR FILTER BLANKET OR GEOTEXTILE FABRIC, TYPE IV (MNDOT SPEC. 3733) REQUIRED UNDER RIPRAP.

APPROVED DECEMBER 31, 2015 CITY ENGINEER REG 23110	RIPRAP AT OUTLETS	Golden Valley GV-EC-070

1 DETAIL: RIPRAP AT OUTLETS
NOT TO SCALE

NOTES:

A) MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE MAY BE NECESSARY.

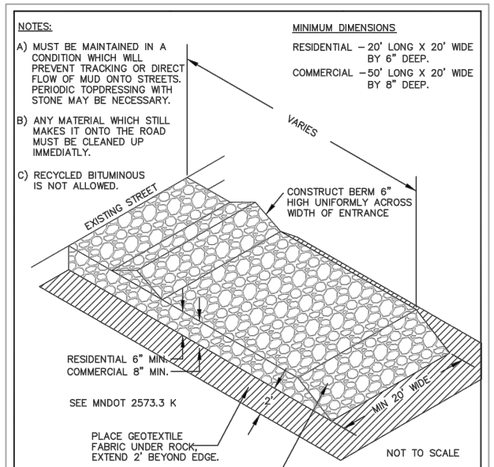
B) ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATLY.

C) RECYCLED BITUMINOUS IS NOT ALLOWED.

MINIMUM DIMENSIONS

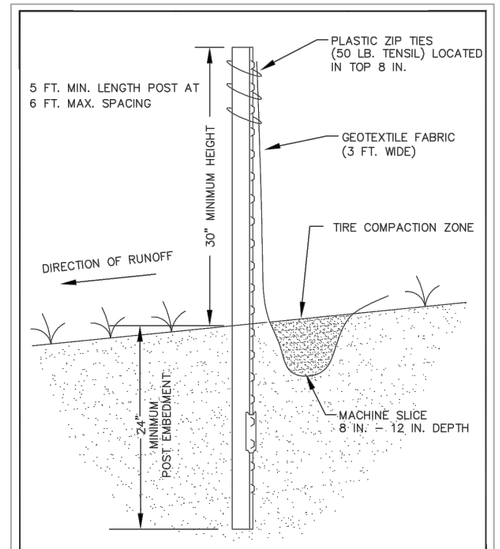
RESIDENTIAL – 20' LONG X 20' WIDE BY 6" DEEP.

COMMERCIAL – 50' LONG X 20' WIDE BY 8" DEEP.



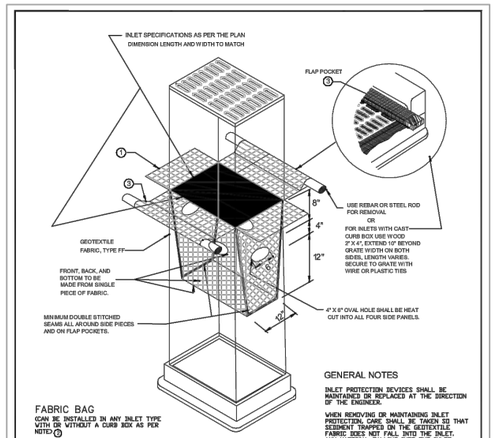
APPROVED DECEMBER 31, 2015 CITY ENGINEER REG 23110	ROCK CONSTRUCTION ENTRANCE	Golden Valley GV-EC-080

2 DETAIL: ROCK CONSTRUCTION ENTRANCE
NOT TO SCALE



APPROVED DECEMBER 31, 2015 CITY ENGINEER REG 23110	INSTALLATION OF MACHINE SLICED SILT FENCE	Golden Valley GV-EC-030

3 DETAIL: MACHINE SLICED SILT FENCE
NOT TO SCALE



FABRIC BAG

CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ③

DO NOT INSTALL INLET PROTECTION IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY, THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY SEDIMENT WHICH DOES FALL INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

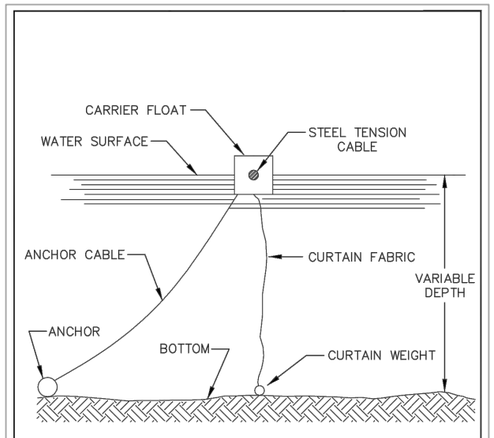
① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, WITH CURB BOX, AN OVAL HOLE SHALL BE NEAT CUT IN THE FABRIC AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2"x4".

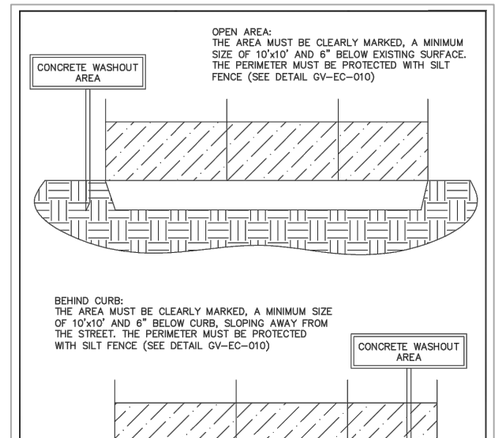
APPROVED DECEMBER 31, 2015 CITY ENGINEER REG 23110	FAST FLOW INLET BAG TO PROTECT STORM INLETS	Golden Valley GV-EC-090

4 DETAIL: INLET PROTECTION
NOT TO SCALE



APPROVED DECEMBER 31, 2015 CITY ENGINEER REG 23110	FLOTATION SILT CURTAIN	Golden Valley GV-EC-040

5 DETAIL: FLOTATION SILT CURTAIN
NOT TO SCALE



APPROVED DECEMBER 31, 2015 CITY ENGINEER REG 23110	CONCRETE WASHOUT AREA	Golden Valley GV-EC-100

6 DETAIL: CONCRETE WASHOUT AREA
NOT TO SCALE

50% DESIGN
NOT FOR CONSTRUCTION

CADD USER: Greg Nelson FILE: M:\DESIGN\23271901.00\23271901.00_SW03_EROSION CONTROL DETAILS.DWG PLOT SCALE: 1:2 PLOT DATE: 2/1/2022 2:21 PM

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	ADB2	KJN2	KAL	12/10/2021	ISSUED FOR REVIEW

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

PRINTED NAME _____

SIGNATURE _____

DATE _____ LICENSE # _____

	12/10/21						
CLIENT							
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
	DATE RELEASED						

BARR
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

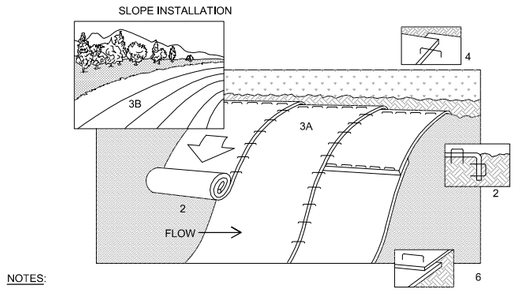
Scale	AS SHOWN
Date	12/10/2021
Drawn	ADB2
Checked	KJN2
Designed	BARR
Approved	KAL

CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

MEDLEY PARK
STORMWATER IMPROVEMENT

EROSION & SEDIMENT CONTROL DETAILS

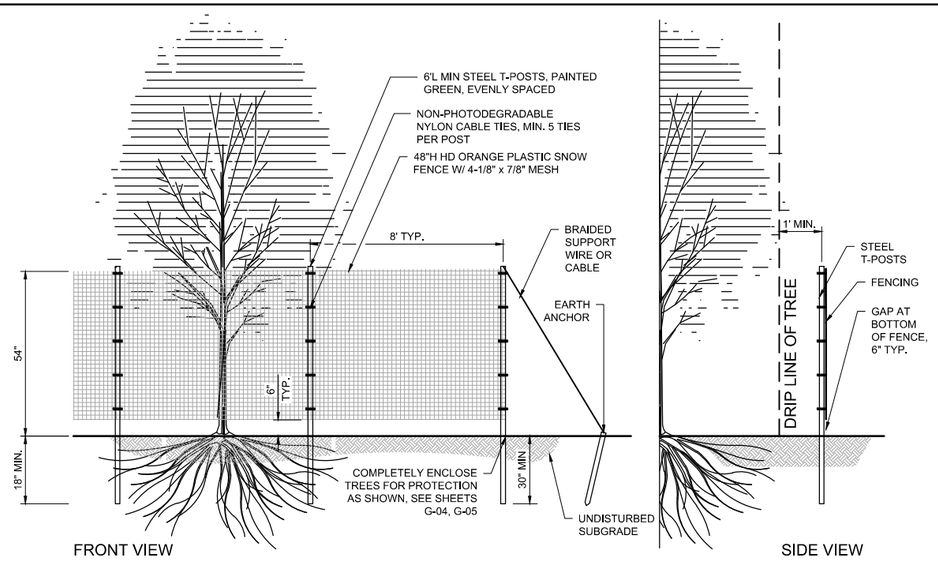
BARR PROJECT No. 23/27-1901.00
CLIENT PROJECT No. 20-26
DWG. No. SW-03
REV. No. A



NOTES:

1. REFER TO MANUFACTURER RECOMMENDATIONS FOR STAPLE PATTERNS FOR SLOPE INSTALLATIONS.
2. PREPARE SOIL BY LOOSENING TOP 1-2 INCHES AND APPLY SEED (AND FERTILIZER WHERE REQUIRED) PRIOR TO INSTALLING BLANKETS. GROUND SHOULD BE SMOOTH AND FREE OF DEBRIS.
3. BEGIN (A) AT THE TOP OF THE SLOPE AND ROLL THE BLANKETS DOWN OR (B) AT ONE END OF THE SLOPE AND ROLL THE BLANKETS HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP, WITH THE UPHILL BLANKET ON TOP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. BLANKET MATERIALS SHALL BE AS SPECIFIED OR AS APPROVED BY ENGINEER.

1 - DETAIL: EROSION CONTROL BLANKET - INSTALLATION
NOT TO SCALE



NOTES:

1. ENSURE FENCE IS PULLED TAUGHT BETWEEN POSTS AND ANCHOR SECURELY AS SHOWN. ENSURE CABLE TIES ARE PULLED TAUGHT AGAINST POST TO PREVENT SLIPPING.
2. PROVIDE 6" TYP. SPACE AT BOTTOM OF FENCE AS SHOWN TO PREVENT SMALL ANIMAL ENTRAPMENT IN FENCED AREA.
3. ENSURE CABLE TIES ARE EXTREME WEATHER COLD TEMPERATURE UV STABILIZED TIES.
4. T-POSTS SHALL BE STUDDED FOR CABLE TIE ATTACHMENT.
5. INSPECT FENCE REGULARLY AND REPAIR TO MAINTAIN OR REPLACE AS NECESSARY THROUGHOUT THE TERM OF THE PROJECT.

2 - DETAIL: TREE PROTECTION FENCE
NOT TO SCALE

50% DESIGN
NOT FOR CONSTRUCTION

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	ADB2	KJN2	KAL	12/10/2021	ISSUED FOR REVIEW

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

PRINTED NAME _____

SIGNATURE _____

DATE _____ LICENSE # _____

CLIENT	12/10/21							
BID								
CONSTRUCTION								
RELEASED TO/FOR	A	B	C	0	1	2	3	
	DATE RELEASED							

BARR
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

Scale	AS SHOWN
Date	12/10/2021
Drawn	ADB2
Checked	KJN2
Designed	BARR
Approved	KAL

CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

MEDLEY PARK
STORMWATER IMPROVEMENT

EROSION & SEDIMENT CONTROL DETAILS

BARR PROJECT No.	
23/27-1901.00	
CLIENT PROJECT No.	
20-26	
DWG. No.	REV. No.
SW-04	A

LOG OF BORING SB-North

Barr Engineering Company
4300 MarketPointe Drive Suite 200
Minneapolis, MN 55435
Telephone: 952-832-2600

SHEET 1 OF 1

Project: Medley Park
Project No.: 23270051.51
Location: Golden Valley, MN
Coordinates: Lat: 45.00538° Long: -93.39667°
Datum: NAD83

Surface Elevation: 906.3 (NAVD88)
Drilling Method: HSA
Sampling Method: SS
Completion Depth: 12.0 ft

Depth, feet	Sample Type & Recovery	Sample No.	Blows/6in.	ENVIRONMENTAL DATA	USCS	Graphic Log	LITHOLOGIC DESCRIPTION	Elevation, feet
0.0		1	3-3-3-	PID:3.6	SM		SILTY SAND (SM): very fine to fine grained; light brown; moist; loose; trace gravel; no odor; no sheen; no discoloration.	906.3
		2	2-2-3-	PID:4.8	OL		ORGANIC SILT (OL): brown; moist; medium stiff; with fine grain sand; organic; no odor; no sheen; no discoloration.	904.8
2.5		3	1-1-2-	PID:4.8	CL		LEAN CLAY (CL): olive gray; moist; medium stiff to stiff; trace fine grain sand and fibrous; no odor; no sheen; no discoloration.	903.3
5.0		4	2-2-3-	PID:4.0				
		5	4-4-5-	PID:4.0				
7.5		6	2-2-3-	PID:5.2				
		7	1-1-1-	PID:3.8	PT		PEAT (PT): brown; moist; soft; organic and fibrous; no odor; no sheen; no discoloration.	897.3
10.0		8	1-2-2-	PID:2.3			End of boring 12.0 feet	894.3
12.5								
15.0								

Date Boring Started: 10/6/20
Date Boring Completed: 10/6/20
Logged By: JWJ
Drilling Contractor: Haugo
Drill Rig: Truck

Remarks: Borehole was drilled with 4-1/4 HSA from 0-12 feet. Borehole was abandoned with soil.

PID = Headspace; D/OS = Discoloration/Odor/Sheen; FD/MC = FD/Methane Corrected; G/S/F = Gravel/Sand/Fines
Additional data may have been collected in the field which is not included on this log.

LOG OF BORING SB-South

Barr Engineering Company
4300 MarketPointe Drive Suite 200
Minneapolis, MN 55435
Telephone: 952-832-2600

SHEET 1 OF 1

Project: Medly Park
Project No.: 23270051.51
Location: Golden Valley, MN
Coordinates: Lat: 45.00492° Long: -93.39667°
Datum: NAD83

Surface Elevation: 907.7 (NAVD88)
Drilling Method: HSA
Sampling Method: SS
Completion Depth: 12.0 ft

Depth, feet	Sample Type & Recovery	Sample No.	Blows/6in.	ENVIRONMENTAL DATA	USCS	Graphic Log	LITHOLOGIC DESCRIPTION	Elevation, feet
0.0		1	1-3-3-	PID:5.9	OL		ORGANIC SILT (OL): black; moist; medium stiff; topsoil; black organics; no odor; no sheen; no discoloration.	907.7
		2	2-2-4-	PID:6.6	CL		LEAN CLAY (CL): black to olive gray; moist; stiff; trace peat; trace very fine to fine grained sand; no odor; no sheen; no discoloration.	906.2
2.5		3	2-2-2-	PID:6.2			4.5-6 feet: no recovery, 2 inch gravel chunk in sampler shoe.	
5.0		4	2-2-3-					
		5	2-2-2-	PID:6.3				
7.5		6	1-2-2-	PID:6.3				
		7	1-2-2-	PID:6.3	PT		PEAT (PT): brown; moist; soft; fibrous organics; no odor; no sheen; no discoloration.	899.7
10.0		8	2-1-1-	PID:5.9	CL		LEAN CLAY (CL): olive gray; wet; soft; with very fine to fine grained sand; no odor; no sheen; no discoloration.	896.7
12.5							End of boring 12.0 feet	895.7
15.0								

Date Boring Started: 10/6/20
Date Boring Completed: 10/6/20
Logged By: JWJ
Drilling Contractor: Haugo
Drill Rig: Truck

Remarks: Borehole was drilled with 4-1/4 HSA from 0-12 feet. Borehole was abandoned with soil.

PID = Headspace; D/OS = Discoloration/Odor/Sheen; FD/MC = FD/Methane Corrected; G/S/F = Gravel/Sand/Fines
Additional data may have been collected in the field which is not included on this log.

LOG OF BORING SED-01

Barr Engineering Company
4300 MarketPointe Drive Suite 200
Minneapolis, MN 55435
Telephone: 952-832-2600

SHEET 1 OF 1

Project: Medly Park
Project No.: 23270051.51
Location: Golden Valley, MN
Coordinates:
Datum: NAD83

Surface Elevation: 897.8
Drilling Method: Vibracore
Sampling Method: Vibracore
Completion Depth: 4.0 ft

Depth, feet	Sample Type & Recovery	Sample No.	ENVIRONMENTAL DATA	USCS	Graphic Log	LITHOLOGIC DESCRIPTION	Elevation, feet
0.0				CL-OH		ORGANIC SOIL (OL-OH): black and dark grey; wet; soft; organic silts with leaves and small roots, cohesive; non-plastic; no odor; no sheen; no discoloration.	897.8
2.5		1	D/O/S:None/ None/ None			Fine grained sand lenses.	
						Fine grained sand lenses.	
5.0				PT		PEAT (PT): dark brown; wet; soft; organic peat, soft, decayed, cohesive; non-plastic; no odor; no sheen; no discoloration.	895.3
7.5						End of boring 4.0 feet	
10.0							
12.5							
15.0							

Date Boring Started: 10/13/20
Date Boring Completed: 10/13/20
Logged By: JWJ
Drilling Contractor: Barr
Drill Rig: John Boat Vibracore

Remarks: Pond water depth at sediment coring location was 0.6 feet.

PID = Headspace; D/OS = Discoloration/Odor/Sheen; FD/MC = FD/Methane Corrected; G/S/F = Gravel/Sand/Fines
Additional data may have been collected in the field which is not included on this log.

LOG OF BORING SED-02

Barr Engineering Company
4300 MarketPointe Drive Suite 200
Minneapolis, MN 55435
Telephone: 952-832-2600

SHEET 1 OF 1

Project: Medly Park
Project No.: 23270051.51
Location: Golden Valley, MN
Coordinates:
Datum: NAD83

Surface Elevation: 897.0
Drilling Method: Vibracore
Sampling Method: Vibracore
Completion Depth: 5.6 ft

Depth, feet	Sample Type & Recovery	Sample No.	ENVIRONMENTAL DATA	USCS	Graphic Log	LITHOLOGIC DESCRIPTION	Elevation, feet
0.0				CL-OH		ORGANIC SOIL (OL-OH): Black and dark gray; wet; soft; organic silts with leaves and trace roots, trace very fine grained sand, cohesive; non-plastic; no odor; no sheen; no discoloration.	897.0
2.5		1	D/O/S:None/ None/ None				
				PT		PEAT (PT): Dark brown; moist; soft; organic peats with tiny roots, trace black organic silts, cohesive; non-plastic; no odor; no sheen; no discoloration.	894.5
5.0							893.0
7.5						End of boring 5.6 feet	
10.0							
12.5							
15.0							

Date Boring Started: 10/13/20
Date Boring Completed: 10/13/20
Logged By: JWJ
Drilling Contractor: Barr
Drill Rig: John Boat Vibracore

Remarks: Pond water depth at sediment coring location was 1.0 feet.

PID = Headspace; D/OS = Discoloration/Odor/Sheen; FD/MC = FD/Methane Corrected; G/S/F = Gravel/Sand/Fines
Additional data may have been collected in the field which is not included on this log.

NOTE:

1) SEE SHEET C-01 FOR SOIL BORING LOCATIONS

50% DESIGN
NOT FOR CONSTRUCTION

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
A	ADB2	KJN2	KAL	12/10/2021	ISSUED FOR REVIEW

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

PRINTED NAME _____

SIGNATURE _____

DATE _____ LICENSE # _____

	12/10/21						
CLIENT							
BID							
CONSTRUCTION							
RELEASED TO/FOR	A	B	C	0	1	2	3
	DATE RELEASED						

BARR
Corporate Headquarters:
Minneapolis, Minnesota
Ph: 1-800-632-2277

city of golden valley

Scale	AS SHOWN
Date	12/10/2021
Drawn	BARR
Checked	KJN2
Designed	BARR
Approved	KAL

CITY OF GOLDEN VALLEY
GOLDEN VALLEY, MN

MEDLEY PARK
STORMWATER IMPROVEMENT

SOIL BORINGS AND SEDIMENT LOGS

BARR PROJECT No.	
23/27-1901.00	
CLIENT PROJECT No.	
20-26	
DWG. No.	REV. No.
B-01	A

CADD USER: Greg Nelson FILE: M:\DESIGN\23271901.00\23271901\00_B01_SOIL BORINGS_SED LOGS.DWG PLOT SCALE: 1:2 PLOT DATE: 2/1/2022 2:39 PM