2015 BASSETT CREEK RESTORATION PROJECT
FOR THE
CITY OF GOLDEN VALLEY

CONSTRUCTION PLAN FOR: STREAMBANK STABILIZATION AND HABITAT RESTORATION LOCATED ON BASSETT CREEK — 50% PLANS SUBMISSION TO THE BASSETT CREEK WMC
PROJECT LOCATION: WINNETKA AVE AND 10TH AVE NORTH TO DULUTH STREET

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF PRIVATE UTILITY IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS TO DETERMINE THE TYPE AND LOCATION OF PRIVATE UTILITY AS MAY BE NECESSARY TO AVOID DAMAGE THEREOF. SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL 2. THE QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF OACSE 28-3, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DECLARATION OF EXISTING SUBSURFACE UTILITY DATA."

EXCAVATION NOTICE SYSTEM
A CALL TO COMMERCE LINE (901-814-0022) IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.

Prepared for:
City of Golden Valley
7800 Golden Valley Road
Golden Valley, Minnesota 55427
(763)-524-8600

GOVERNING SPECIFICATIONS
2015 BASSETT CREEK RESTORATION PROJECT SPECIAL CONDITIONS
A CALL TO COMMERCE LINE (901-814-0022) IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.
THE QUALITY LEVEL OF THE SUBSURFACE UTILITY INFORMATION IS UTILITY QUALITY LEVEL 2. THE QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF OACSE 28-3, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DECLARATION OF EXISTING SUBSURFACE UTILITY DATA."

SHEET NO. OF __________ SHEETS

WSB PROJECT 0365-2080
CITY PROJECT NO. 13-25

Item 6B
BOWMC 3-19-15
2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley
Minnesota

Construction Plans
Area A

Legend
- Storm Sewer
- Vegetated Bench
- 12" Biolog with Stone Toe
- Parcels
- Creek Stationing

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Sta 38+75 to 41+50, right bank
- Stabilize with slope shaping, 12" Biolog, and stone toe

Sta 38+75 to 40+25, right bank
Stabilize with vegetative bench

Tree Removals:
Sta 36+50 to 41+50
- Both banks
- Remove approximately 50 trees
- Clear dead, dying, and leaning trees
- Clear brush along streambank

Legend
- Storm Sewer
- Vegetated Bench
- Biolog with Stone Toe
- Parcels
- Creek Stationing
Sta 50+00
- Place 48" manhole in existing alignment, 10' back from bank
- Install 15 feet of 12" RCP at 45 degrees (towards downstream) from existing alignment.
- Stabilize outfall with Class II Rip Rap
- Install 12" RCP FES at 869.62 (field verify) (SEE DETAILS)

Sta 48+00 to 53+50
- Stabilize streambanks with intermittent, semi-submerged 12" stone toe and limited slope shaping

Tree Removals:
Sta 55+00 to 59+00
- Remove approximately 35 trees
- Clear dead, dying, and leaning trees
- Clear brush along streambank

Sta 48+00 to 53+50
- Remove approximately 25 trees
- Clear dead, dying, and leaning trees
- Clear brush along streambank

Sta 42+00 to 47+00
- Remove approximately 25 trees
- Clear dead, dying, and leaning trees
- Clear brush along streambank

Sta 42+50 to 45+50
- Stabilize Streambanks with 12" Biolog with Stone Toe

Sta 54+50 to 55+25
- Do not shape slope back

Tree Removals:
Sta 55+00 to 59+00
- Remove approximately 35 trees
- Clear dead, dying, and leaning trees
- Clear brush along streambank

Sta 54+50 to 58+70
- Stabilize Streambanks with 12" Biolog with Stone Toe

Protect 15" PVC

Protect 16" HDPE

Save large cottonwood

Stabilize with Vegetated Bench

Sta 58+70 to 59+70
- Stabilize Streambanks with a 6 ft section of Fieldstone Boulders (200 ft)

Sta 54+50 to 55+25, Right
- Do not shape slope back

Legend
- Storm Sewer
- Vegetated Bench
- Biolog with Stone Toe
- Intermittent Stone Toe
- Parcels
- 20' Construction Zone and Access
- Creek Stationing
Stabilize with 12" biolog and 30-34" boulder toe in severely eroded area

Stabilize with 12" biolog and 30-34" boulder toe

Limited slope shaping as needed in previously restored areas

Sta 62+75 to 75+60
- Remove cinder blocks and foreign material from creek

Sta 66+75 to 67+50
- Remove debris and other material from creek near outfall

Sta 67+00
- Stabilize 18" RCP FES with Class II Rip Rap (SEE DETAILS)

Sta 63+20
- Reattach 42" RCP FES at 864.60 (field verify)
- Reinstate sheehpiling under FES
- Stabilize with Class II Rip Rap (SEE DETAILS)

Sta 62+75
- Install 18" galvanized FES FES on 16" CMP at existing elevation

Sta 67+00
- Place intermittent stone toe on inside bend

Sta 74+75 to 75+50
- Replace washed out portions of previously installed boulder wall

Sta 79+00 to 79+60
- Reinstall sheetpiling under FES

Protect tree surrounded by wooden wall

Tree Removals:
- Sta 62+50 to 65+25, Right:
  - Place intermittent stone toe on inside bend

Stone Removals:
- Sta 74+75 to 75+50
  - Remove 140 to 150 trees
  - Clear dead, dying, and leaning trees
  - Clear brush along streambank

Legend
- Storm Sewer
- Biolog with Boulder Toe
- Intermittent Stone Toe
- Parcels
- Creek Stationing

2015 Bassett Creek Main Stem Restoration Project
City of Golden Valley
Minnesota

Construction Plans
Area D
2015 Bassett Creek Main Stem
Restoration Project
City of Golden Valley
Minnesota

Construction Plans
Area E

Legend
- Storm Sewer
- Vegetated Bench
- Biolog with Stone Toe
- Parcels
  - Creek Stationing

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Sta 83+00 to 94+00
- Stabilize streambanks with 12" biolog, slope shaping, and submerged stone toe

Sta 89+90
- Install FES on 12" RCP at 858.42 (field verify)
- Stabilize outfall with Class II Rip Rap (SEE DETAILS)

Sta 89+25
- Install FES on 12" CMP at 860.0 (field verify)
- Install FES on 10" PVC at 858.2 (field verify)
- Stabilize each outfall with Class II Rip Rap (SEE DETAILS)

Sta 87+60
- Install FES on 12" CMP at approximately 860.5 (field verify)
- Install FES on 24" RCP at approximately 860.0 (field verify)
- Stabilize outfalls with Class II Rip Rap (SEE DETAILS)

Sta 87+90
- Install galvanized FES on 15" PVC pipe at 858.52 (field verify)
- Stabilize outfall with Class II Rip Rap (SEE DETAILS)

Approximately Sta 86+00 to 88+00:
- Realign trail to the east approximately 15' (where feasible)
  to provide room to pull back steep bank

Place vegetated bench where trail realignment not feasible

Tree Removals:
Sta 85+00 to 94+00
- Remove 100 to 120 Trees
- Clear dead, dying, and leaning trees
- Clear brush along streambank
BIO-LOG STABILIZATION DETAIL

PLANTINGS
(CORD GRASS PLUGS 7" ON CENTER)

TOP OF BANK

12" NATURAL FIBER ROLL

SECURE WITH TINNE

NORMAL WATER LEVEL

CATEGORV IV
WOOD FIBER BLANKET AND NATIVE SEED MIX
2:1 BLEND MAMBUH

PARTIAL BURY
REQUIRED

3" x 3" x 0.5"
WOOD STAKES

STAKE MAY BE
REALIGNED TO AVOID CONTACT WITH ROCK

FASCINE INSTALLATION DETAIL

PLACEMENT

PLACEMENT AT A 60 DEGREES ANGLE TO THE BUNDLE

DEAD STUB STAKES

2" SPACING

PLANT EXUDES 1/8 TO 1" DIA,
9 TO 12" LONG

WEED BRANCHES STAGGERED THROUGHOUT BUNDLE

Saw a 2 x 4 ORGANICALLY TO PRODUCE 2 DEAD STUB STAKES

DEAD STABE DETAIL

STEP 1

PREPARE 24" PLANTING HOLE WITH SPINE

CREATE UPSTREAM DEPRESSION TO COLLECT WATER

SOIL MUST BE FINISHED AROUND PLANTING TO ELIMINATE AIR POCKETS

PLANT MUST BE TRIMMED IF MORE THAN 2 BRANCHES ARE ABOVE GROUND

STEP 2

BURY 3/4 OF PLANTING

1" TO 2" SPACING FROM EACH PLANTING

LIVE STAKE DETAIL

BULBS
RIP RAP AT FES DETAIL

TYPICAL MANHOLE DETAIL

FES SHEETPILING DETAIL

CLASS 2 RIPRAP REQUIREMENTS:
- 12" TO 24" RAP: 25 cu. yds.
- 25" TO 33" RAP: 73 cu. yds.
- 36" TO 48" RAP: 12 cu. yds.
- 54" AND UP: 16 cu. yds.

(One cubic yard is approximately 2,800 lbs.)

SECTION A-A

FILTER BLANKET UNDER

SECTION B-B

FILTER BLANKET UNDER

NOTE:
FILTER BLANKET REQUIRED UNDER RIPRAP OR 2 LAYERS OF SOIL TECHNICAL FABRIC OR EQUAL

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