

BIORETENTION AREA WALL
REINFORCING (TYP), SEE
DETAIL GI-5

(2) #4 W/ 90° HOOK @ ENDS

CONCRETE CHECK DAM,
SEE NOTES 3 TO 8

SECTION - CONCRETE CHECK DAM

1

10' (MAX)
TOP OF CHECK DAM, SEE NOTE 3
KEY OR EXPANSION JOINT (TYP)

ENGINEER TO SPECIFY MINIMUM DIMENSIONS

WATER STOP, BOTH SIDES (TYP)

UNDERDRAIN,
SEE NOTE 2

NOTES:

1. REFER TO GI-1 NOTES FOR GUIDELINES AND CHECKLIST.
2. UNDERDRAIN TO PASS THROUGH CHECK DAM IN NON-PERFORATED PIPE. PIPE FITTINGS SHALL BE USED TO ACCOMMODATE CHANGES IN GRADE, AS NEEDED.
3. HEIGHT AND SPACING OF CHECK DAMS SHALL BE ESTABLISHED BASED ON THE PONDING DEPTH REQUIRED TO MEET PROJECT HYDROLOGIC PERFORMANCE GOALS AND THE MAXIMUM DESIRED DROP FROM THE SURROUNDING GRADE TO THE FACILITY BOTTOM.
4. ALL MATERIAL AND WORKMANSHIP FOR CHECK DAM ASSEMBLY SHALL CONFORM TO LOCAL JURISDICTION STANDARD SPECIFICATIONS.
5. CONCRETE CHECK DAM SHALL BE CONTINUOUS (NO JOINTS) AND REINFORCED WITH #4 BAR, PLACED AT 18" ON CENTER, EACH WAY.
6. CONCRETE CHECK DAM SHALL BE DESIGNED BY THE ENGINEER AND MEET STRUCTURAL REQUIREMENTS FOR LATERAL BRACING WHEN USED AS LATERAL BRACING.
7. TOP OF CHECK DAM TO BE LEVEL WITH CREST ELEVATION MATCHING PONDING ELEVATION UNLESS NOTCH SIZED TO CONVEY DESIGN FLOWS PROVIDED.
8. GROUT ALL PENETRATIONS, CRACKS, SEAMS, AND JOINTS WITH CLASS "C" MORTAR.

TOP OF RAISED BIORETENTION AREA WALL

HEIGHT AS SHOWN
ON PROJECT PLANS

OPTIONAL GROUTED
COBBLES, AS NEEDED
FOR ENERGY DISSIPATION

WALL
PENETRATION

UNDERDRAIN PIPE
FITTINGS
SEE NOTE 2

3" (MIN) KEY

DRAINAGE NOTCH (TYP),
SEE DETAIL GI-3B

PONDING ELEVATION,
ENGINEER TO SPECIFY

TOP OF
SIDEWALK

2" FREEBOARD

12" (MIN)

CONCRETE CHECK DAM,
SEE NOTES 3 TO 8

GROUT FILL
WALL
PENETRATIONS,
SEE NOTE 8.

3" (MIN) KEY

6" (MIN)

UNDERDRAIN,
SEE NOTE 2 AND
GI-3A, NOTE 7

PROFILE - CONCRETE CHECK DAM

2

NOT FOR CONSTRUCTION

BIORETENTION COMPONENTS: CHECK DAM DETAIL

GREEN INFRASTRUCTURE
EXAMPLE DETAILS

ALAMEDA COUNTYWIDE CLEAN
WATER PROGRAM

SCALE: NOT TO SCALE

DATE: MAY 11, 2018 REVISED: JUNE 11, 2019

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GI-7