Add new detail

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

GRADE CONTROL RIFFLE STRUCTURE WITH EMBEDDED TOE

PLAN VIEW

NOTES:

1. ROCK RIPRAP SHALL BE SOUND MATERIAL AND GRADED PER REQUIREMENTS SPECIFIED IN STANDARD SPECIFICATION ITEM NUMBER 591S.

2. ROCK RIPRAP D_{50} AND CLASS SIZE SHALL BE NOTED ON PLANS. GRADATION SHALL BE STABLE FOR THE DESIGN HYDRAULIC CONDITIONS AND IN ACCORDANCE WITH ECM 1.4.6.D ROCK RIPRAP, OR OTHER ENGINEERING STANDARD OF PRACTICE FOR SIZING ROCK RIPRAP.

3. AGGREGATE FOR GRANULAR FILTER SHALL BE DESIGNED ACCORDING TO ECM 1.4.6.D AND SHALL MEET THE REQUIREMENTS SPECIFIED FOR COARSE AGGREGATE IN SPECIFICATION ITEM NUMBER 403. AGGREGATE NOMINAL SIZE GRADE, NUMBER OF LAYERS AND LAYER THICKNESS SHOULD BE NOTED ON THE PLANS.

SECTION A-A'

SECTION B-B'

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO.

625S-2.A

Add new detail

CITY OF AUSTIN

WATERSHED PROTECTION DEPARTMENT

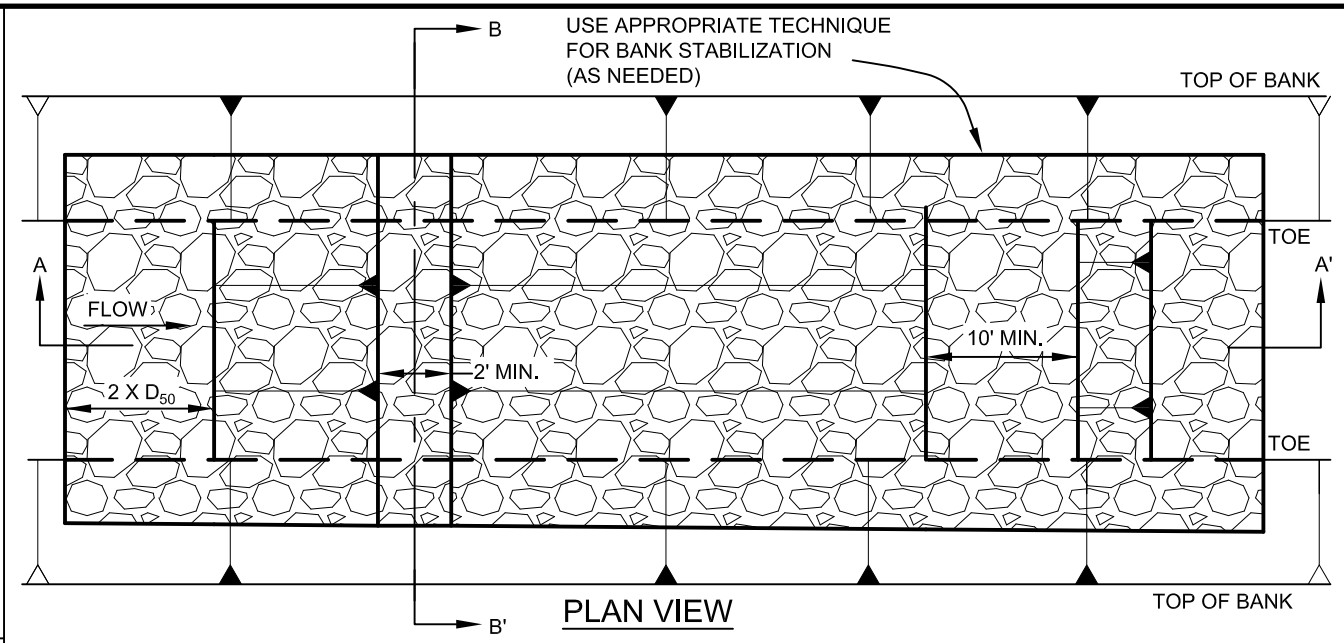
GRADE CONTROL STRUCTURE

ROCK RIFFLE WITH PREFORMED SCOUR POOL

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO.

625S-2.B



PLAN VIEW

NOTES:

1. ROCK RIPRAP SHALL BE SOUND MATERIAL AND GRADED PER REQUIREMENTS SPECIFIED IN STANDARD SPECIFICATION ITEM NUMBER 591S.

2. ROCK RIPRAP D_{50} AND CLASS SIZE SHALL BE NOTED ON PLANS. GRADATION SHALL BE STABLE FOR THE DESIGN HYDRAULIC CONDITIONS AND IN ACCORDANCE WITH ECM 1.4.6.D ROCK RIPRAP, OR OTHER ENGINEERING STANDARD OF PRACTICE FOR SIZING ROCK RIPRAP.

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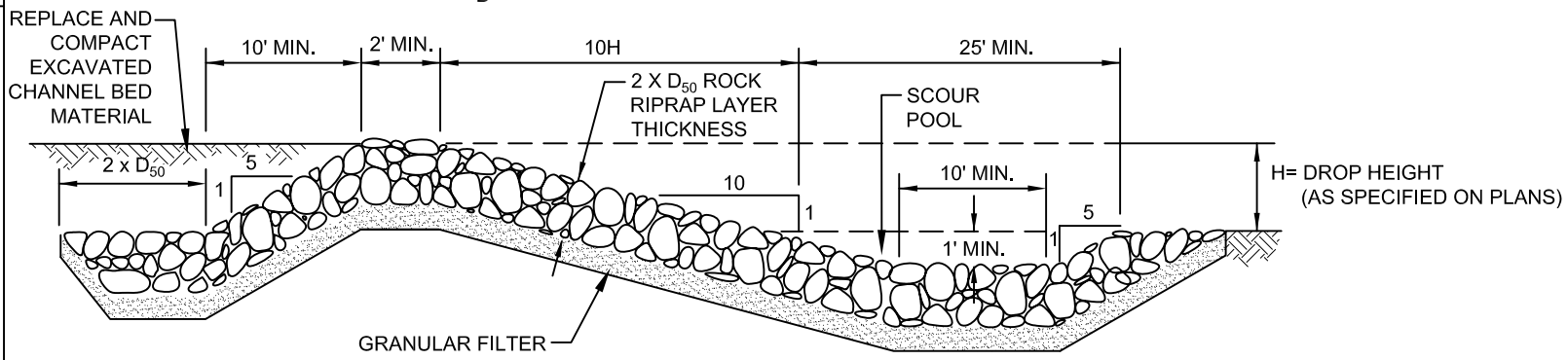
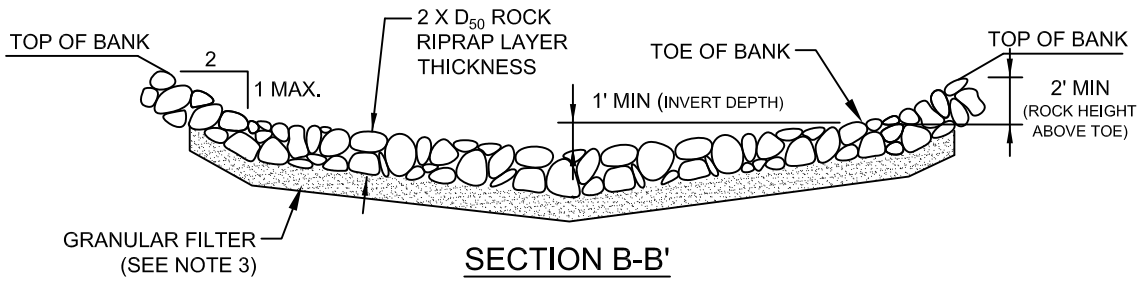


SECTION A-A'



SECTION B-B'

Add new detail

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

GRADE CONTROL STRUCTURE
ROCK RIFFLE WITH CONCRETE CREST
AND EMBEDDED TOE

XX/XX/09
ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO.
625S-3.A

NOTES:

1. ROCK RIPRAP SHALL BE SOUND MATERIAL AND GRADED PER REQUIREMENTS SPECIFIED IN STANDARD SPECIFICATION ITEM NUMBER 591S.

2. ROCK RIPRAP D_{50} AND CLASS SIZE SHALL BE NOTED ON PLANS. GRADATION SHALL BE STABLE FOR THE DESIGN HYDRAULIC CONDITIONS AND IN ACCORDANCE WITH ECM 1.4.6.D ROCK RIPRAP, OR OTHER ENGINEERING STANDARD OF PRACTICE FOR SIZING ROCK RIPRAP.

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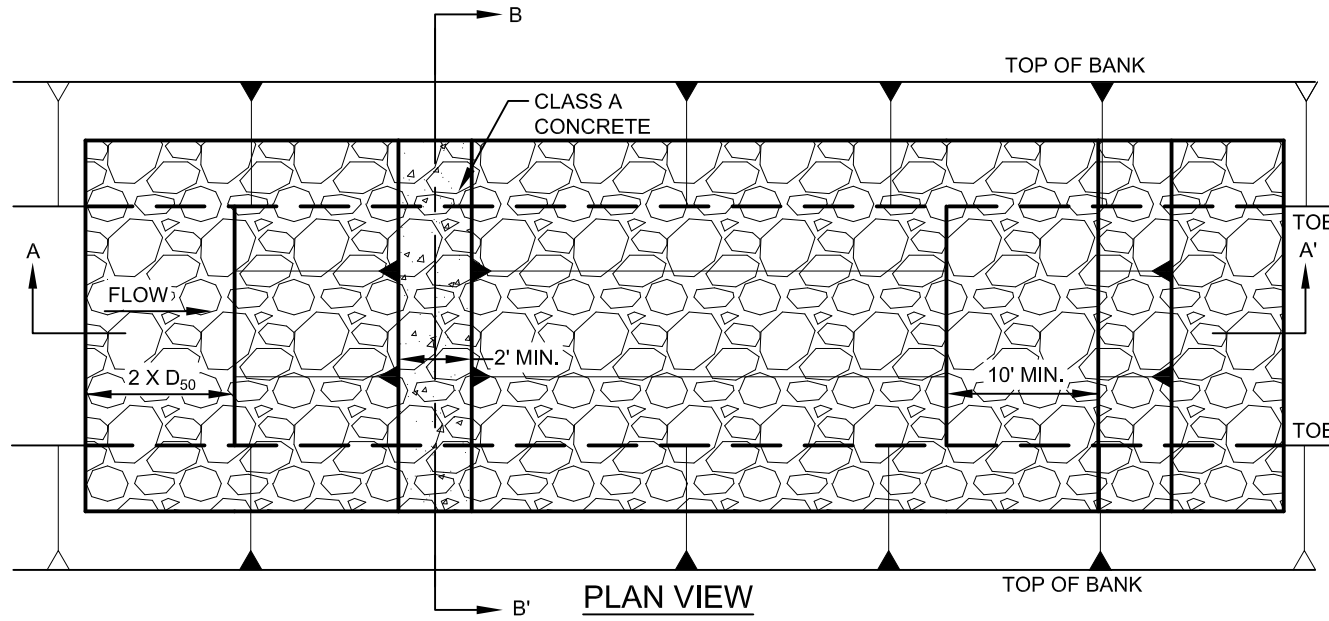
Add new detail

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

GRADE CONTROL STRUCTURE
ROCK RIFFLE WITH CONCRETE CREST
AND PREFORMED SCOUR POOL

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO.
625S-3.B



PLAN VIEW

NOTES:

1. ROCK RIPRAP SHALL BE SOUND MATERIAL AND GRADED PER REQUIREMENTS SPECIFIED IN STANDARD SPECIFICATION ITEM NUMBER 591S.

2. ROCK RIPRAP D_{50} AND CLASS SIZE SHALL BE NOTED ON PLANS. GRADATION SHALL BE STABLE FOR THE DESIGN HYDRAULIC CONDITIONS AND IN ACCORDANCE WITH ECM 1.4.6.D ROCK RIPRAP, OR OTHER ENGINEERING STANDARD OF PRACTICE FOR SIZING ROCK RIPRAP.

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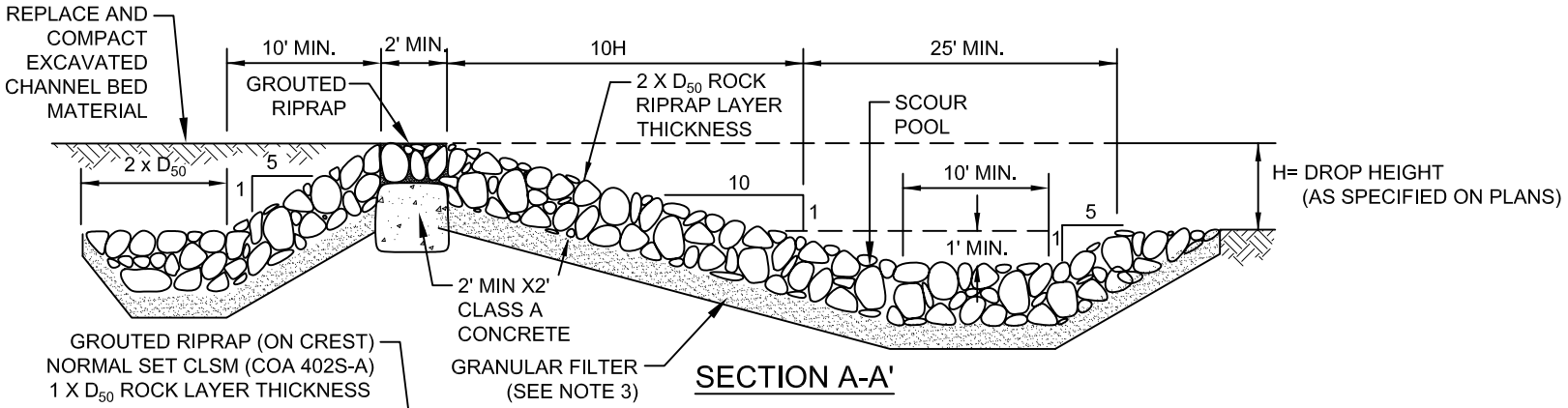
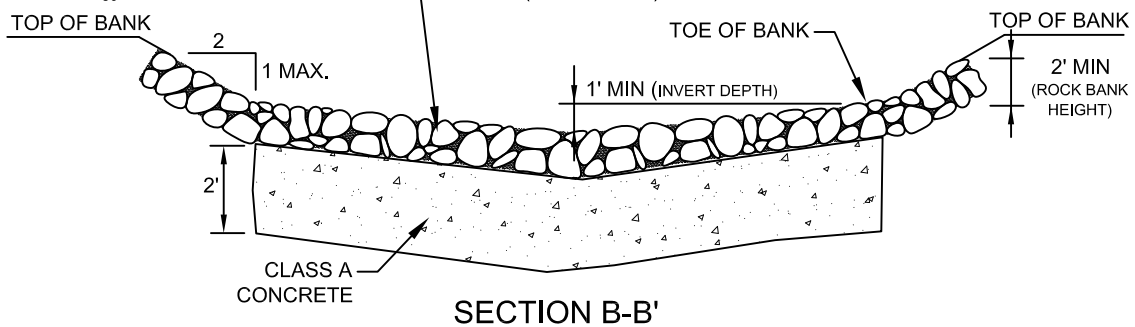


SECTION A-A'



SECTION B-B'

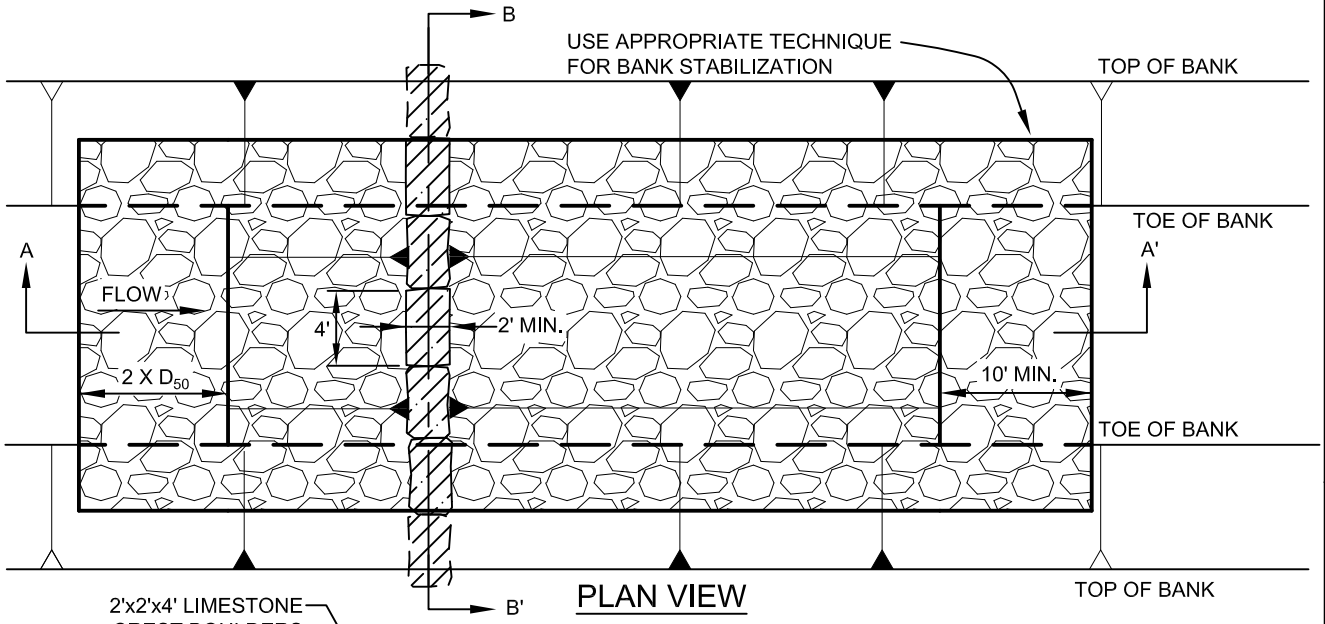
Add new detail

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

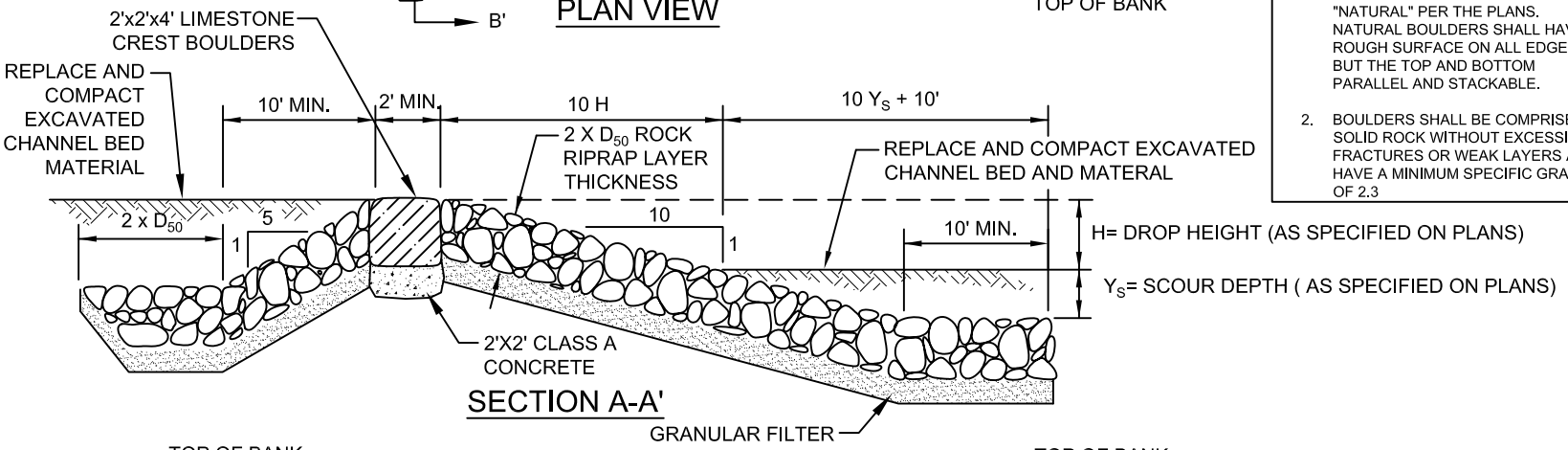
GRADE CONTROL STRUCTURE
ROCK RIFFLE WITH BOULDER CREST AND EMBEDDED TOE

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

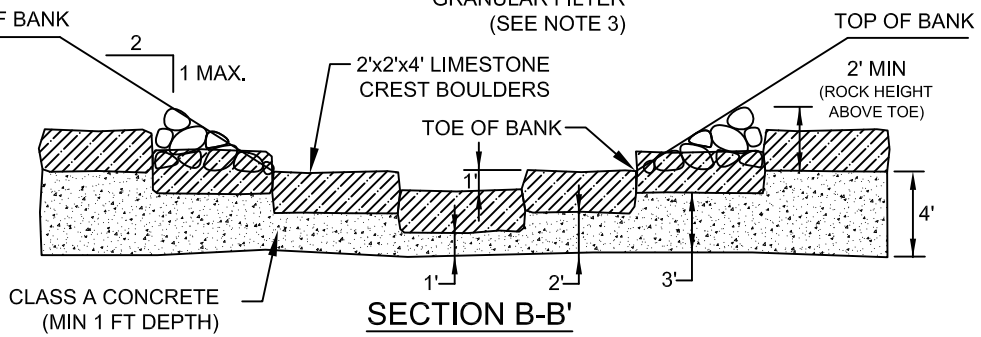
STANDARD NO.
625S-4.A



PLAN VIEW



SECTION A-A'



SECTION B-B'

NOTES:
1. ROCK RIPRAP SHALL BE SOUND MATERIAL AND GRADED PER REQUIREMENTS SPECIFIED IN STANDARD SPECIFICATION ITEM NUMBER 591S.

2. ROCK RIPRAP D_{50} AND CLASS SIZE SHALL BE NOTED ON PLANS. GRADATION SHALL BE STABLE FOR THE DESIGN HYDRAULIC CONDITIONS AND IN ACCORDANCE WITH ECM 1.4.6.D ROCK RIPRAP, OR OTHER ENGINEERING STANDARD OF PRACTICE FOR SIZING ROCK RIPRAP.

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NOTES (BOULDERS):

1. BOULDERS SHALL BE DERIVED FROM NATURAL QUARRY LIMESTONE AND BE SPECIFIED AS EITHER "CUT" OR "NATURAL" PER THE PLANS. NATURAL BOULDERS SHALL HAVE A ROUGH SURFACE ON ALL EDGES, BUT THE TOP AND BOTTOM PARALLEL AND STACKABLE.

2. BOULDERS SHALL BE COMPRISED OF SOLID ROCK WITHOUT EXCESSIVE FRACTURES OR WEAK LAYERS AND HAVE A MINIMUM SPECIFIC GRAVITY OF 2.3

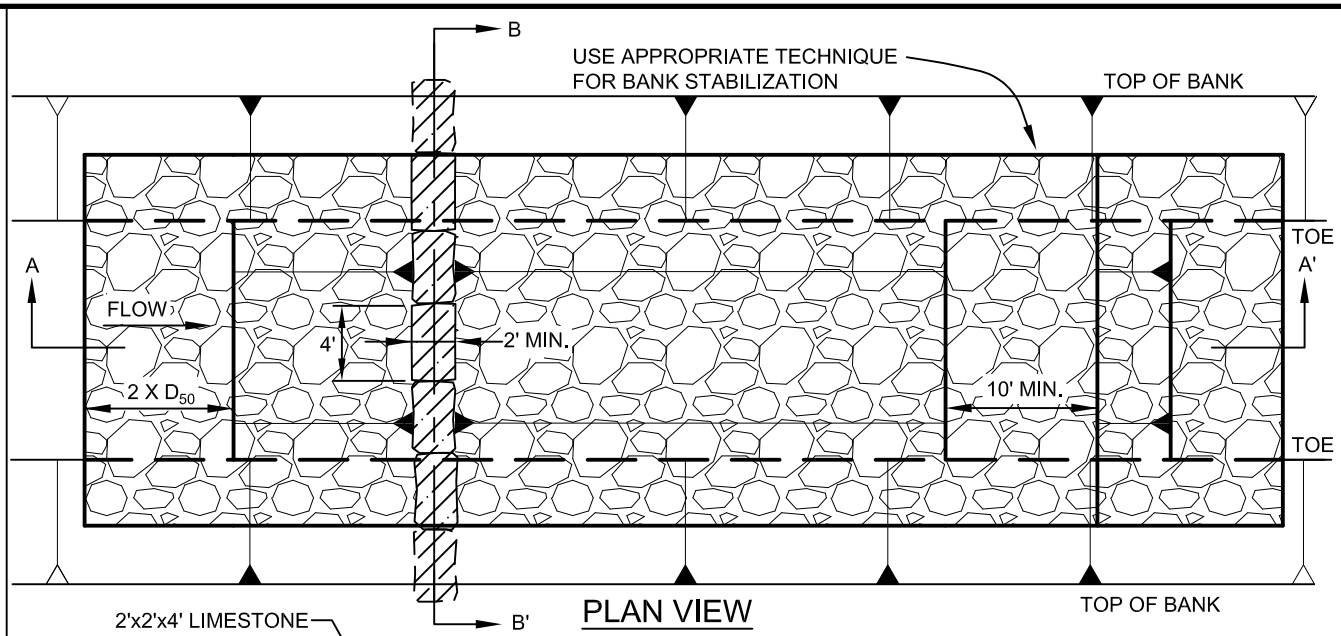
Add new detail

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

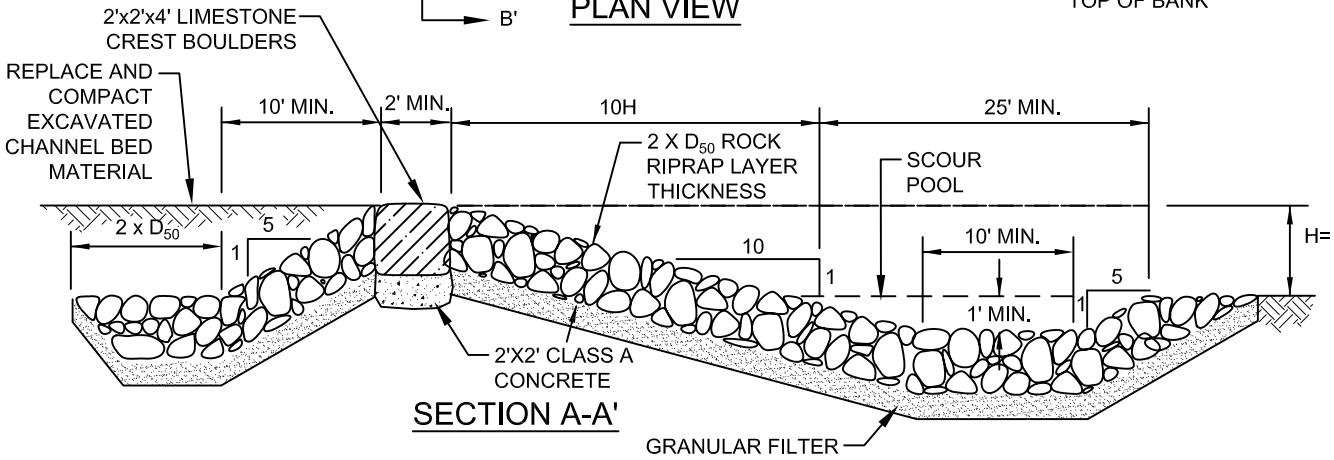
GRADE CONTROL STRUCTURE
ROCK RIFFLE WITH BOULDER CREST AND PREFORMED SCOUR POOL

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

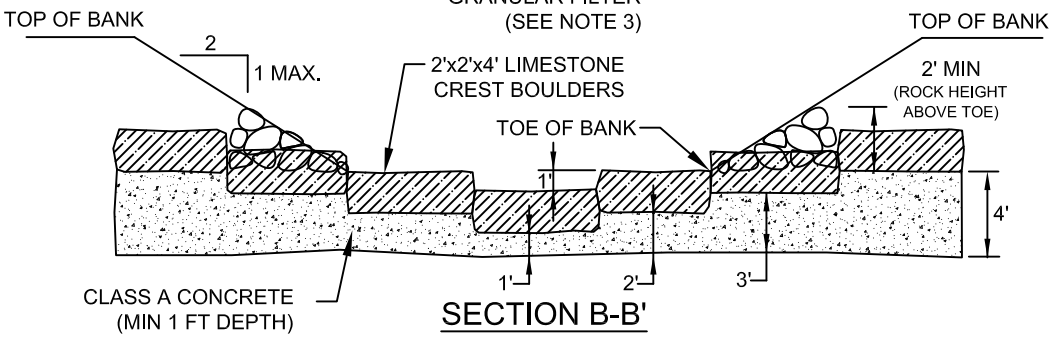
STANDARD NO.
625S-4.B



PLAN VIEW



SECTION A-A'



SECTION B-B'

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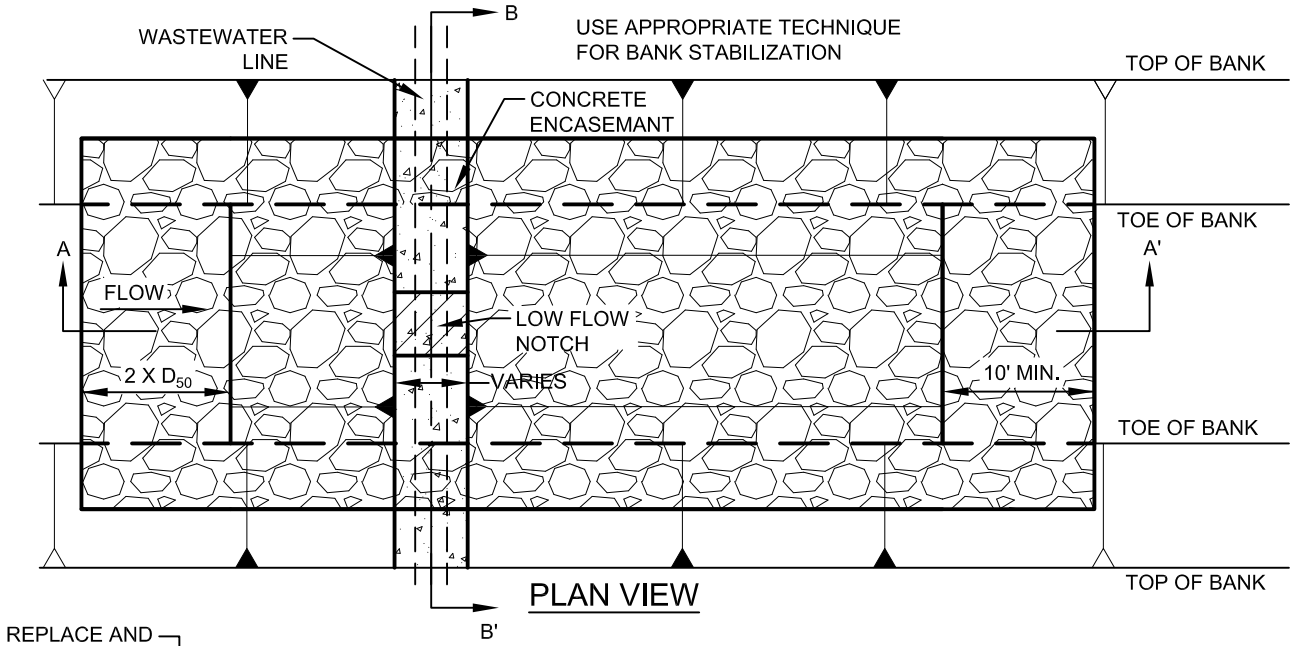
2. BOULDERS SHALL BE COMPRISED OF SOLID ROCK WITHOUT EXCESSIVE FRACTURES OR WEAK LAYERS AND HAVE A MINIMUM SPECIFIC GRAVITY OF 2.3

Add new detail

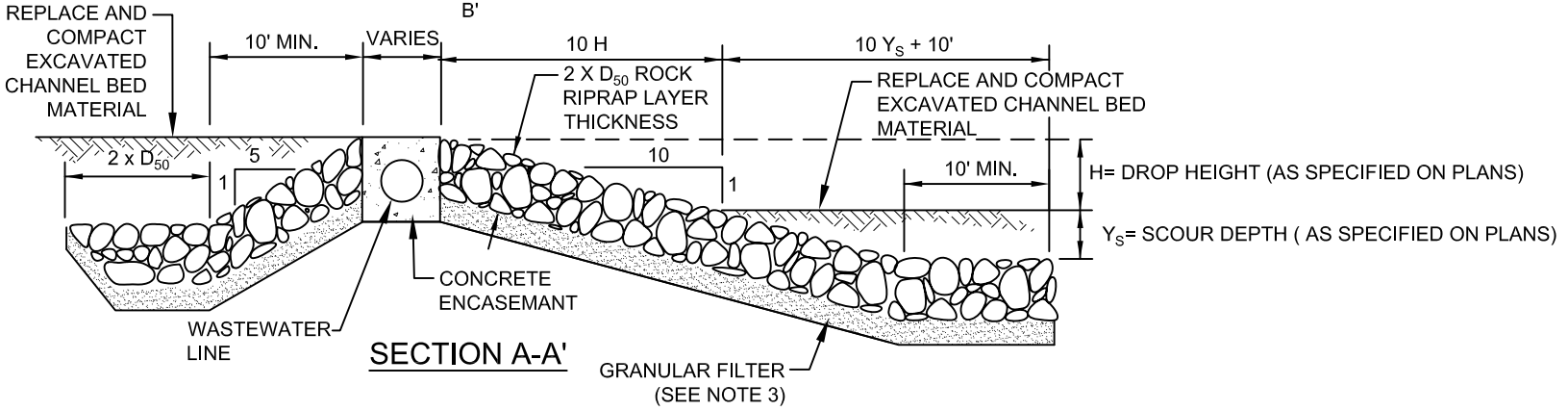
CITY OF AUSTIN

WATERSHED PROTECTION DEPARTMENT

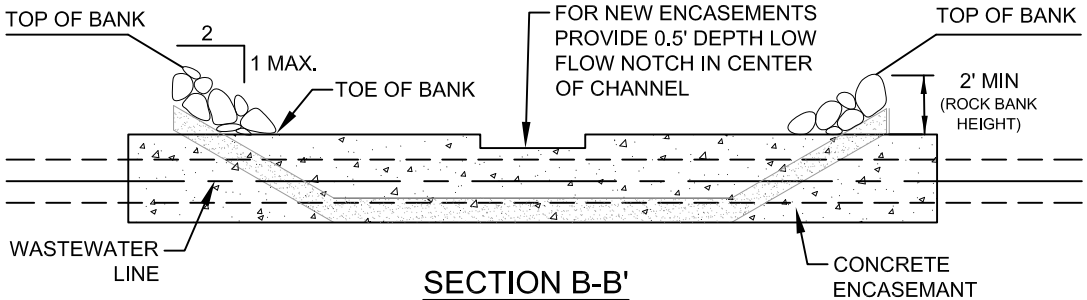
GRADE CONTROL STRUCTURE
ROCK RIFFLE AT WASTEWATER CROSSING
WITH EMBEDDED TOE



PLAN VIEW



SECTION A-A'



SECTION B-B'

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THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO.

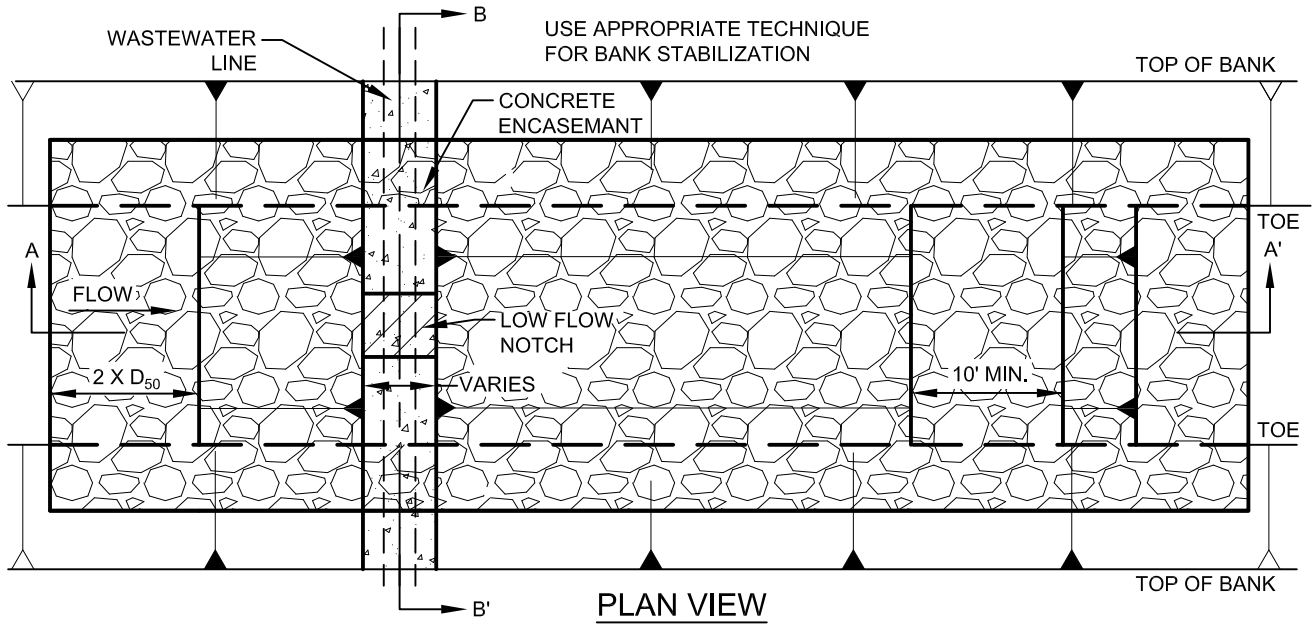
625S-5.A

Add new detail

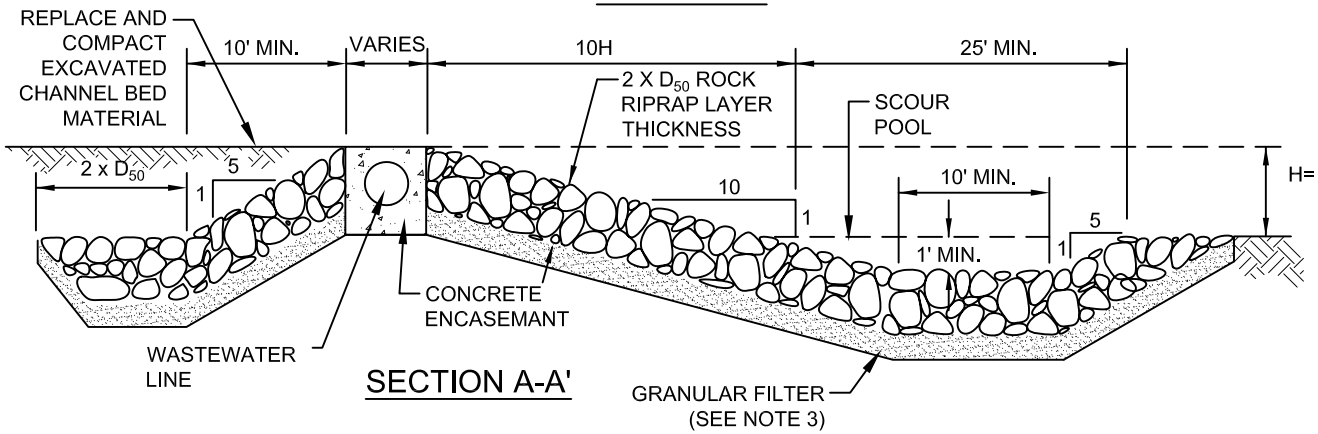
CITY OF AUSTIN

WATERSHED PROTECTION DEPARTMENT

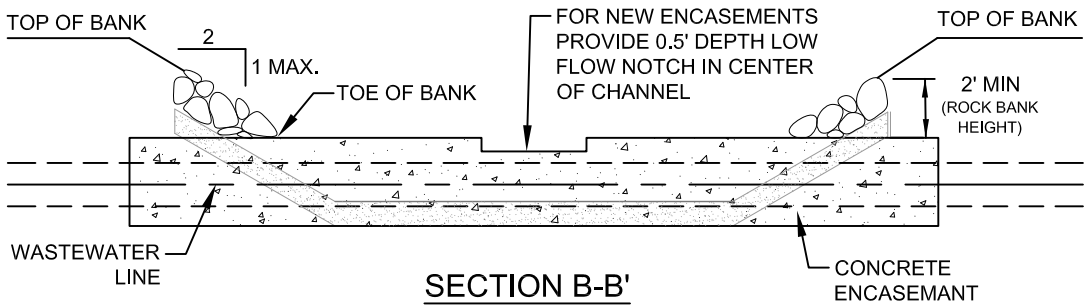
GRADE CONTROL STRUCTURE
ROCK RIFFLE AT WASTEWATER CROSSING
WITH PREFORMED SCOUR POOL



PLAN VIEW



SECTION A-A'



SECTION B-B'

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THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO.

625S-5.B

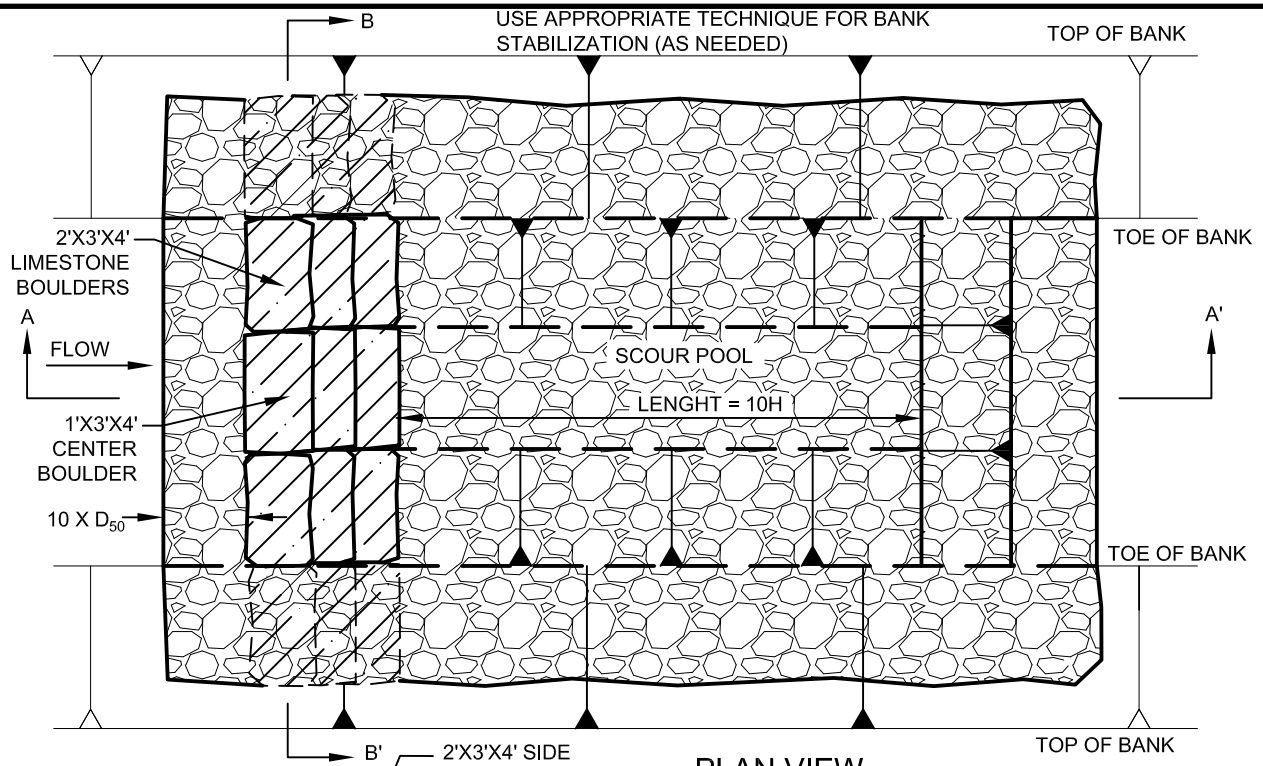
Add new detail

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

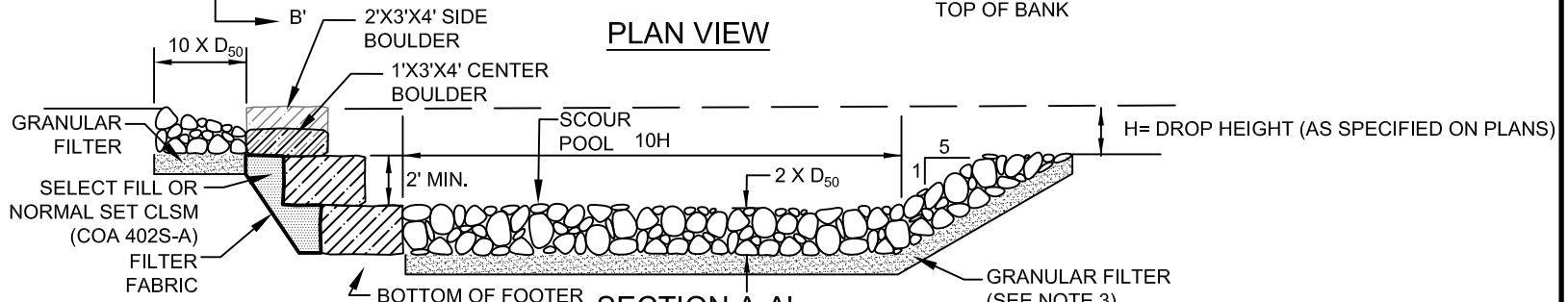
GRADE CONTROL STRUCTURE
STRAIGHT STEPPED ROCK DROP

STANDARD NO.
625S-6

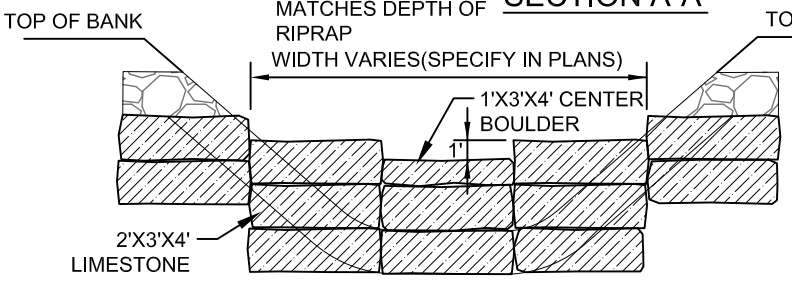
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



PLAN VIEW



SECTION A-A'



SECTION B-B'

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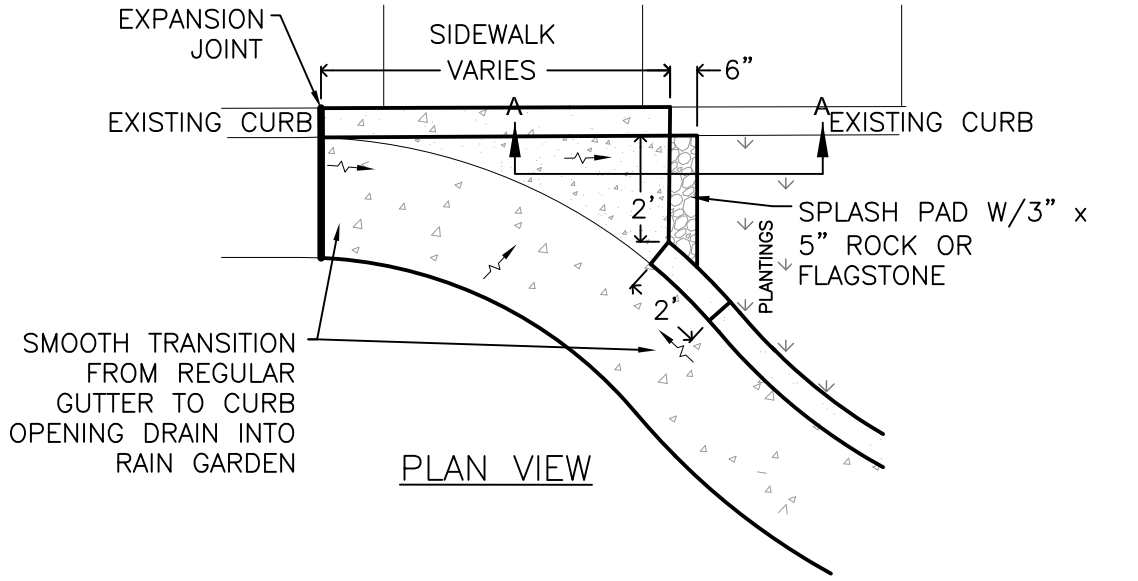
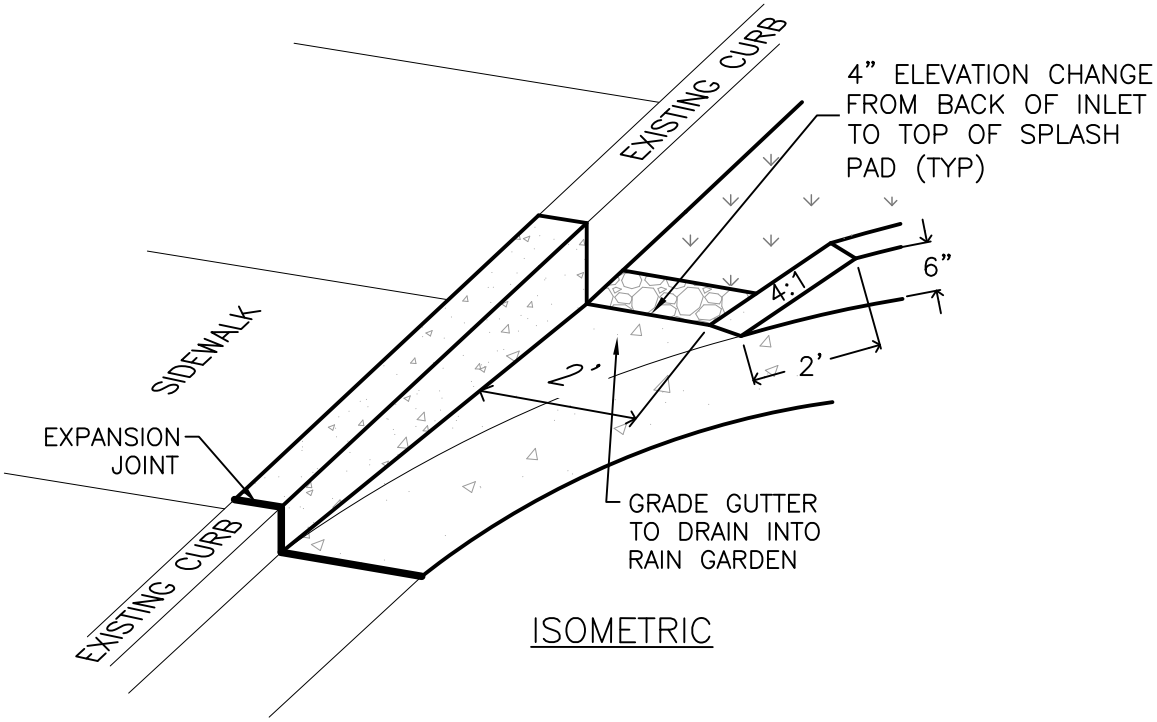
2. BOULDERS SHALL BE COMPRISED OF SOLID ROCK WITHOUT EXCESSIVE FRACTURES OR WEAK LAYERS AND HAVE A MINIMUM SPECIFIC GRAVITY OF 2.3

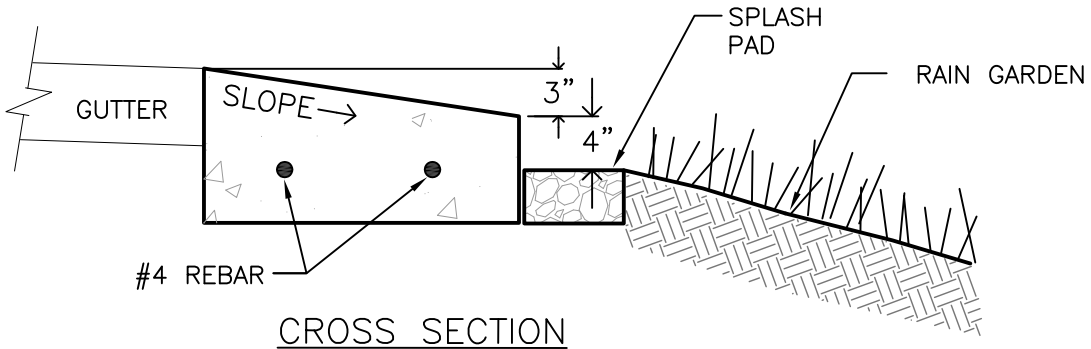
Replace existing with this detail



PLAN VIEW



ISOMETRIC



CROSS SECTION
A–A

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

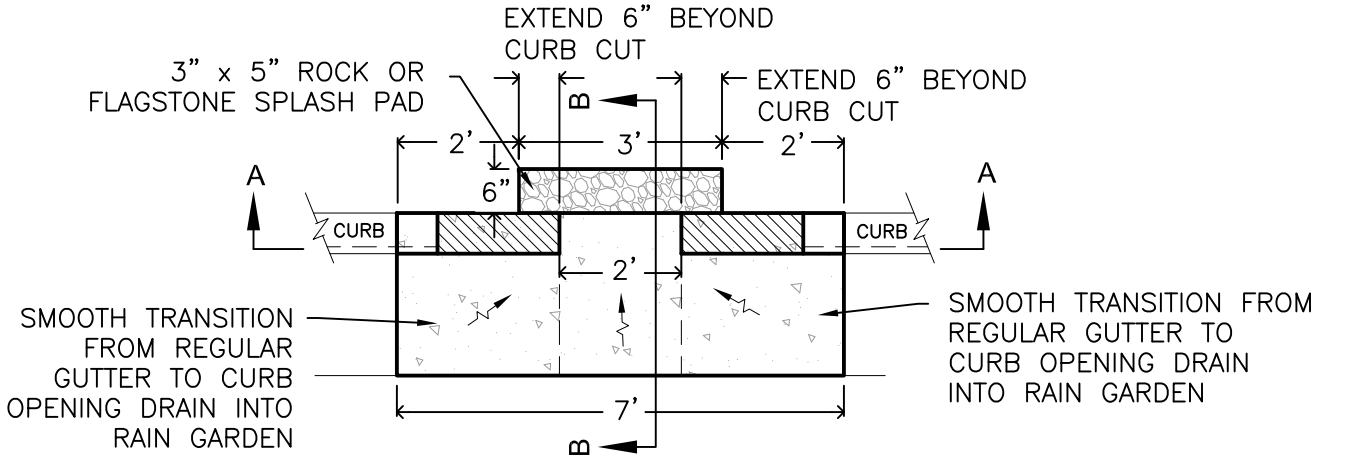
RAIN GARDEN
TYPICAL INLET DETAIL 1

ADOPTED

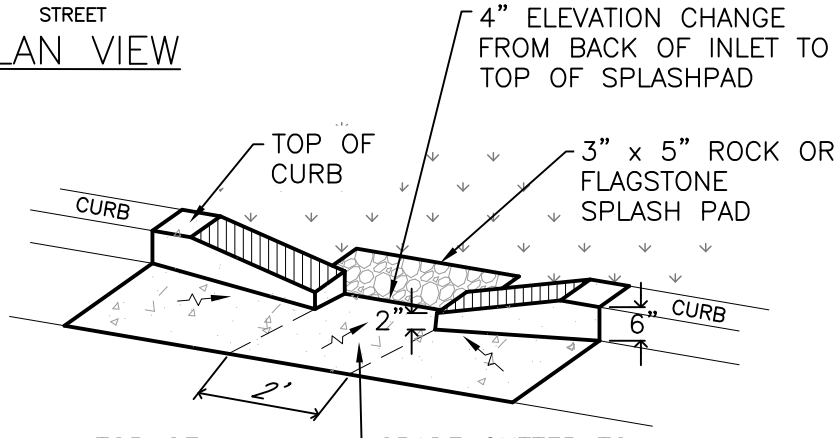
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO.
SPD 660-3

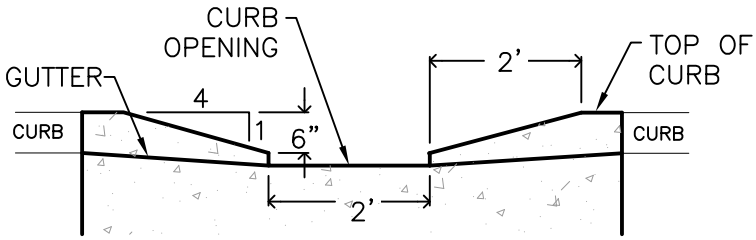
Replace existing with this detail



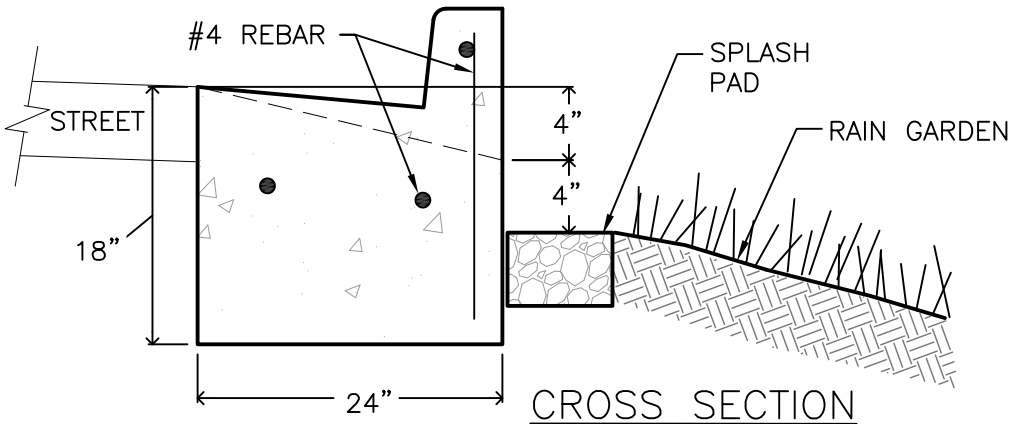
PLAN VIEW



ISOMETRIC



CROSS SECTION A–A



CROSS SECTION B–B

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

RAIN GARDEN
TYPICAL INLET DETAIL 2

ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO.
SPD 660-4