



8455 College Boulevard Overland Park, KS 66210 816.777.0400 weareown.com

FORMERLY ANDERSON ENGINEERING

CLAYTON PROPERTIES GROUP COBEY CREEK - 2ND PLAT

S29, T47N, R31W LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING INFORMATION

PROJECT NO: 21KC10060

DRAWN BY: JK

CHECK BY: JB

ISSUED FOR: REVIEW
ISSUED DATE: 10/01/2024



ISSUED BY: JEFFREY BARTZ LICENSE NO: PE - 2012022594

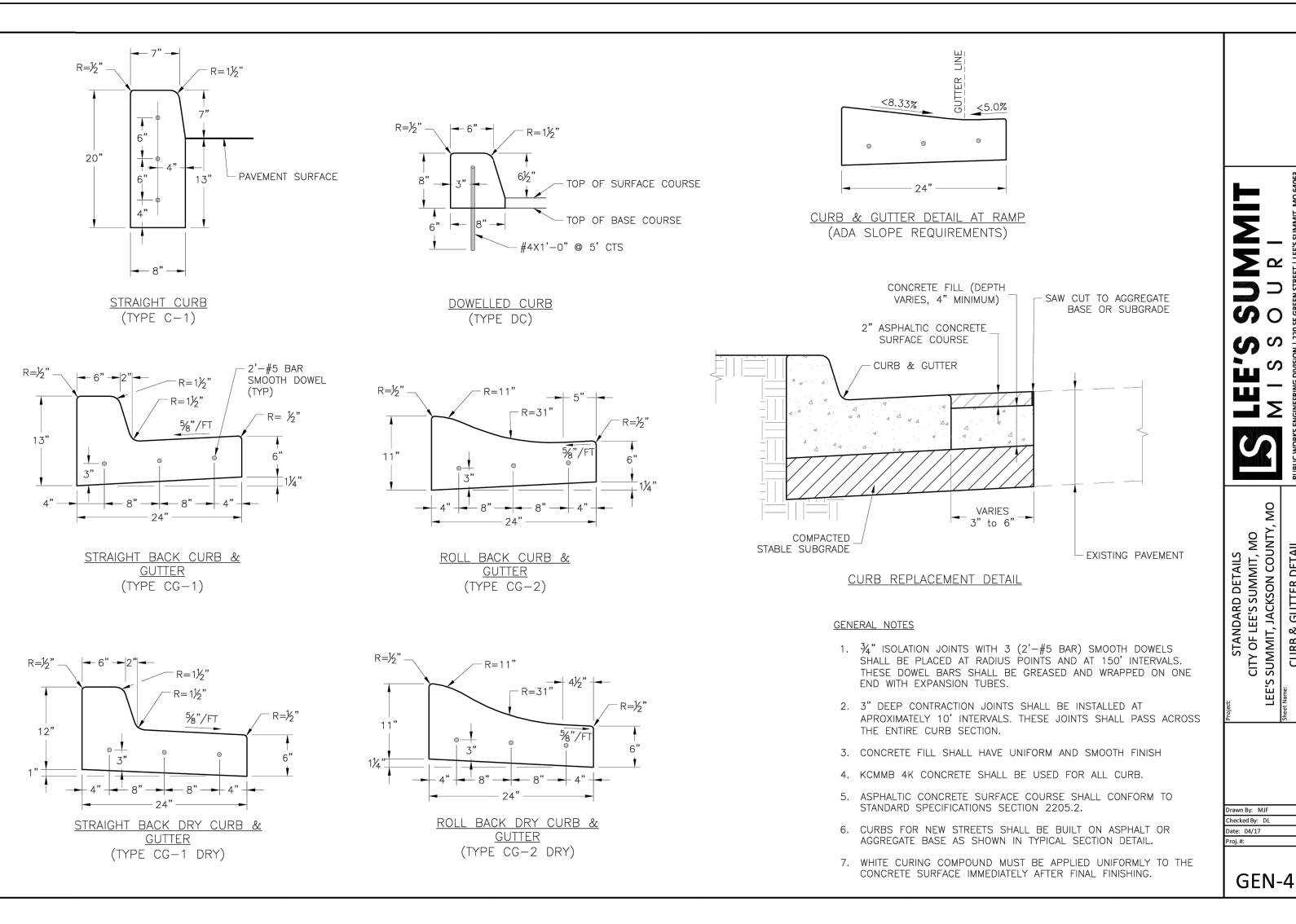
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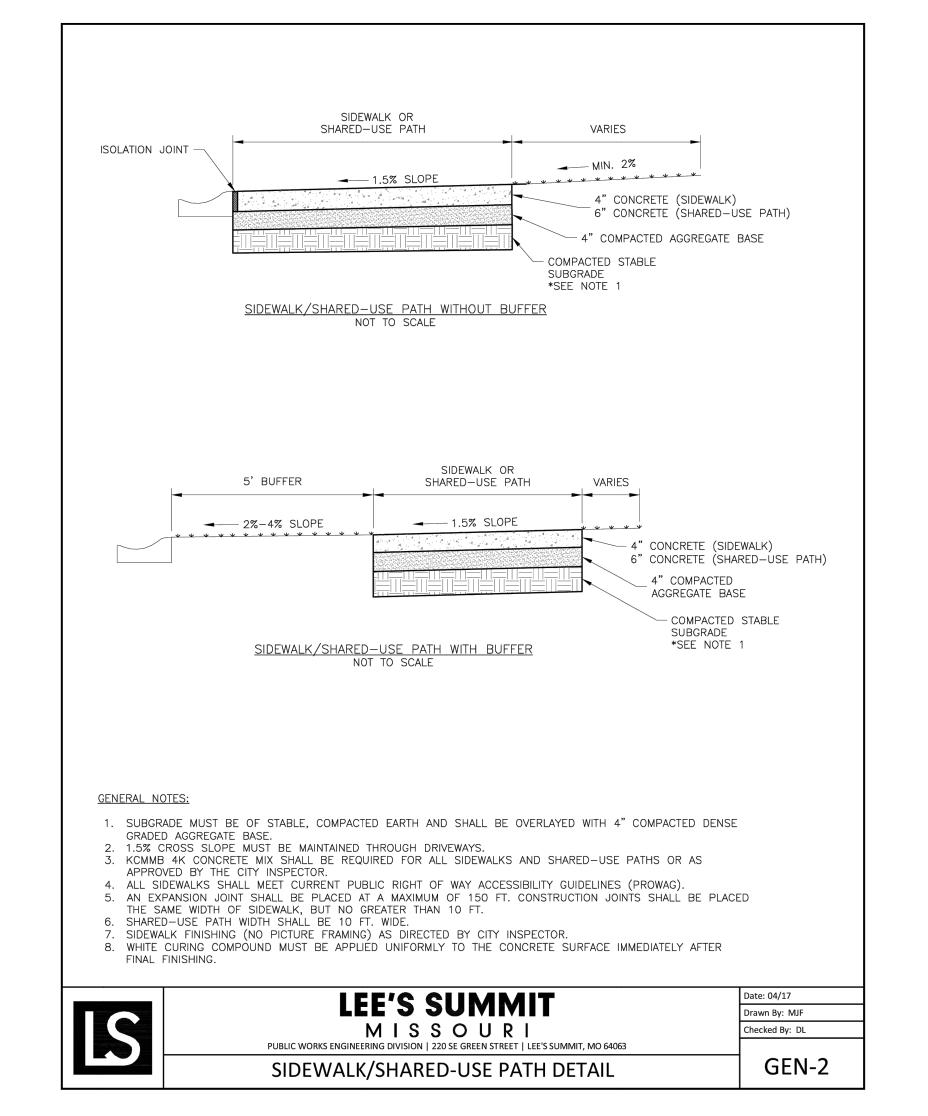
SHEET TITLE

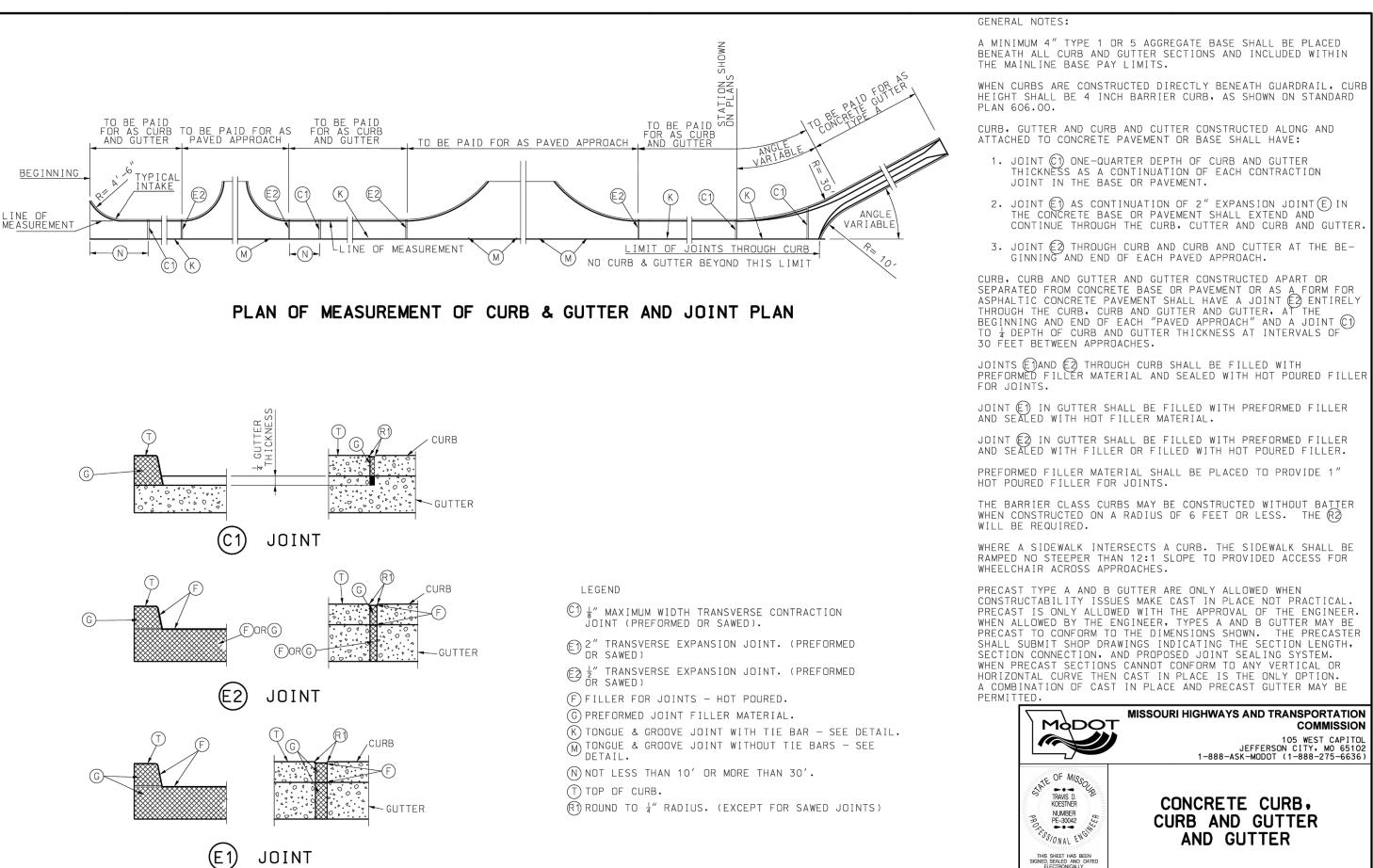
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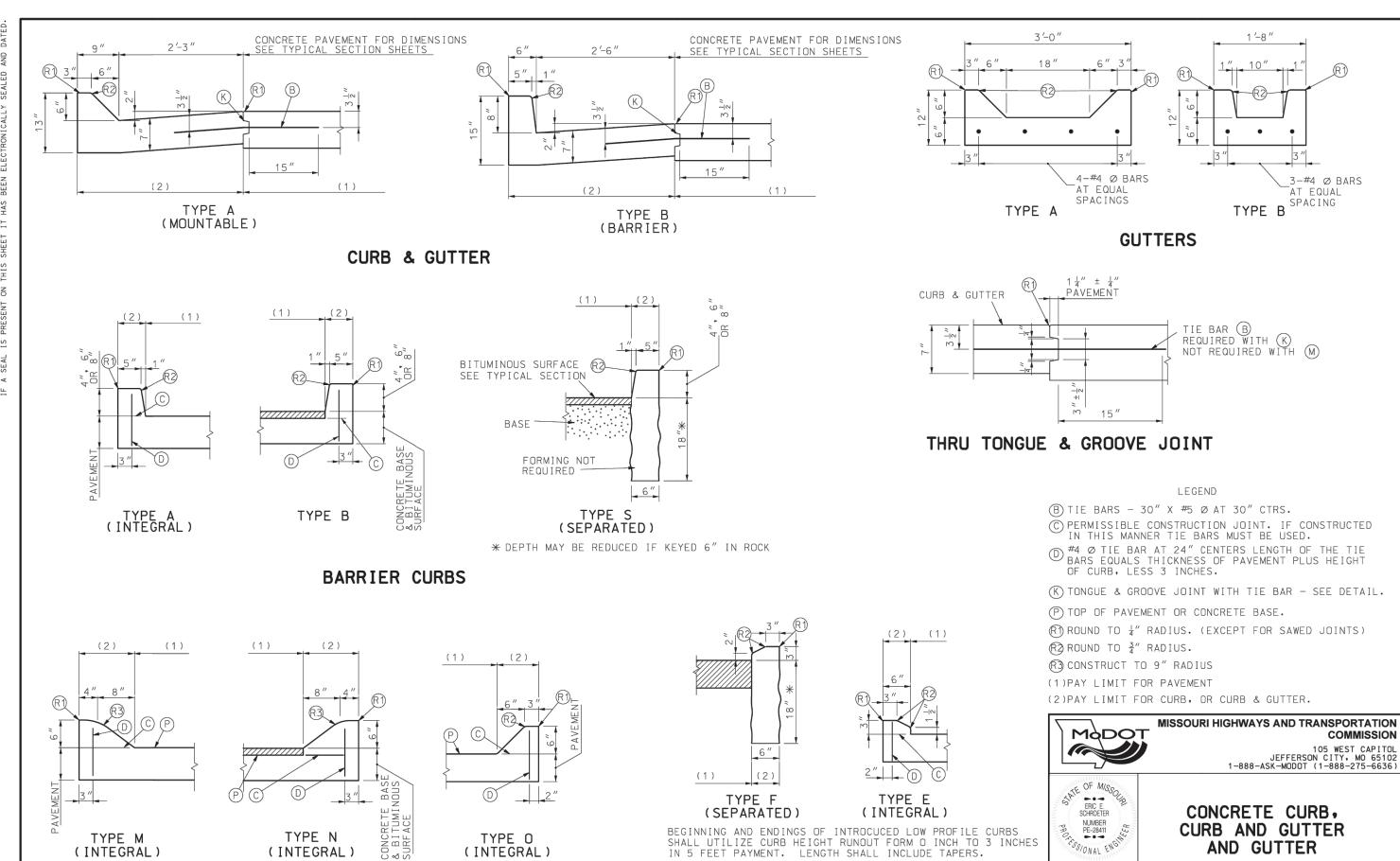
SHEET NUMBER

C700









* DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK.

LOW PROFILE CURB

TYPE N

(INTEGRAL)

MOUNTABLE CURBS

(INTEGRAL)

(INTEGRAL)

DATE EFFECTIVE: 04/01/2021

DATE PREPARED: 1/27/2021

609.00P

1 OF 2



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3-#4 Ø BARS

COMMISSION

2 OF 2

AND GUTTER

609.00P

THIS SHEET HAS BEEN IGNED, SEALED AND DATED

DATE EFFECTIVE: 07/01/2018

DATE PREPARED: 5/3/2018

ISSUED FOR: REVIEW ISSUED DATE: 10/01/2024



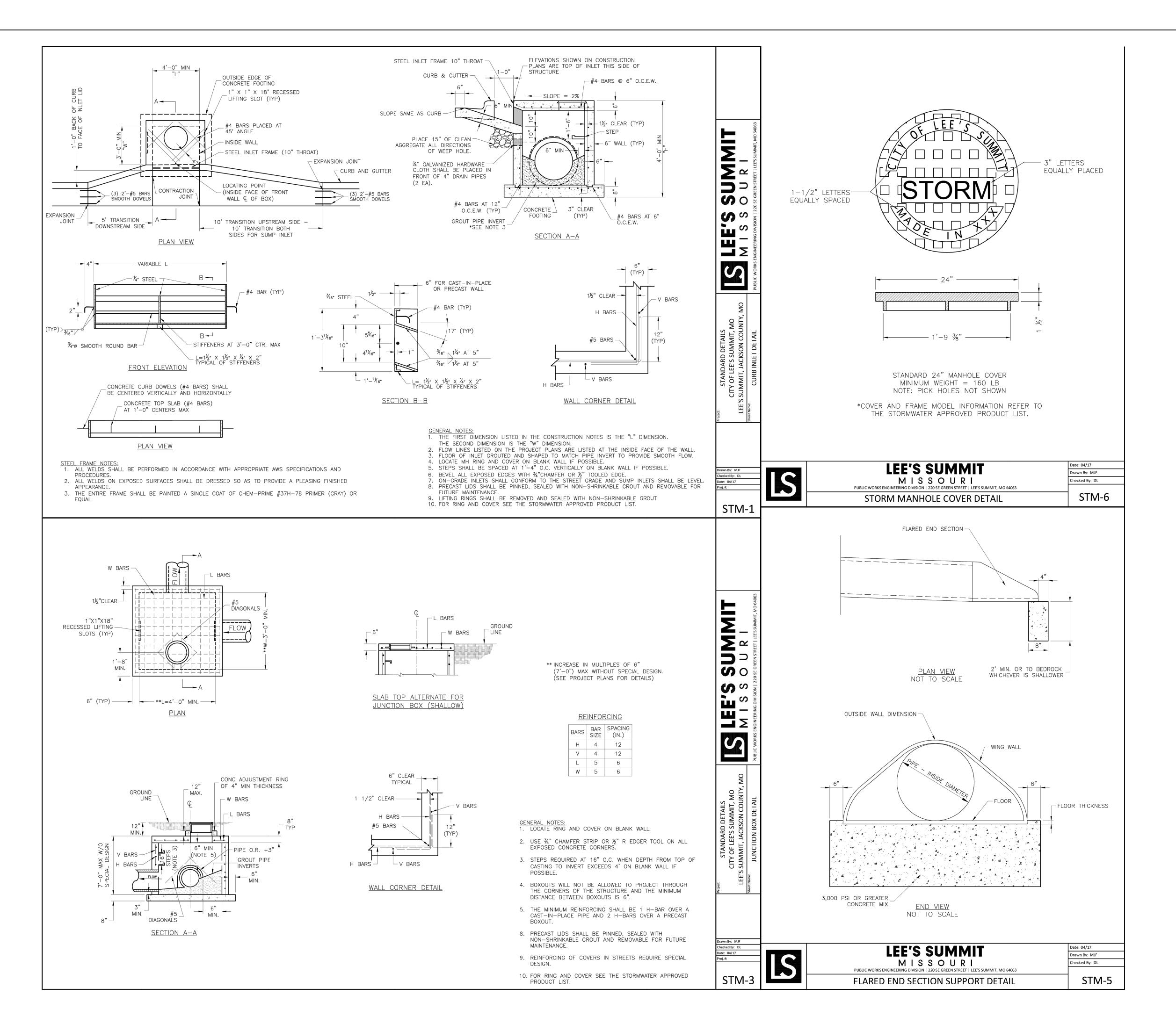
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SHEET TITLE

CURB & **SIDEWALK DETAILS**

SHEET NUMBER 65 OF 77





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S29, T47N, R31W LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

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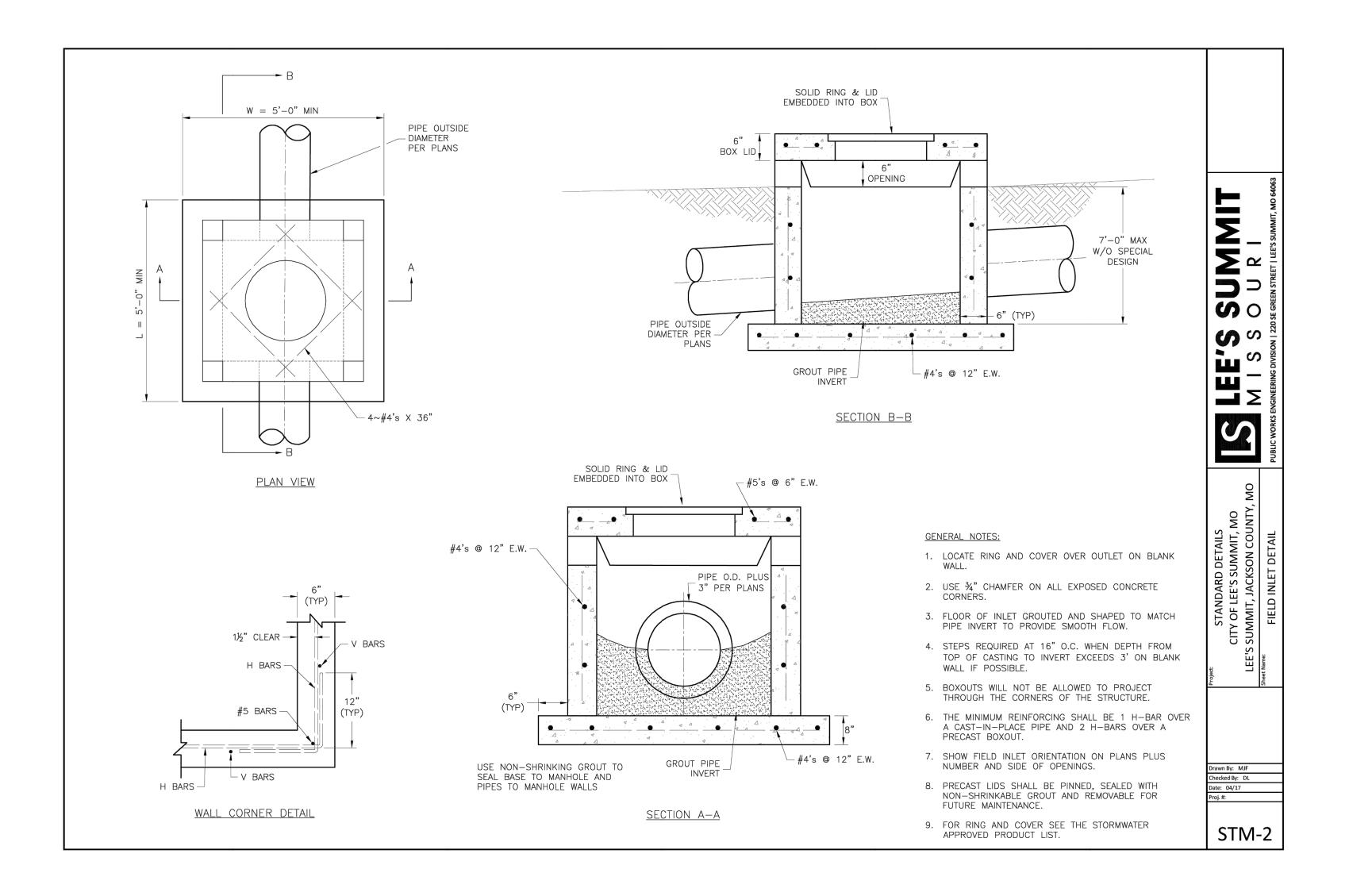
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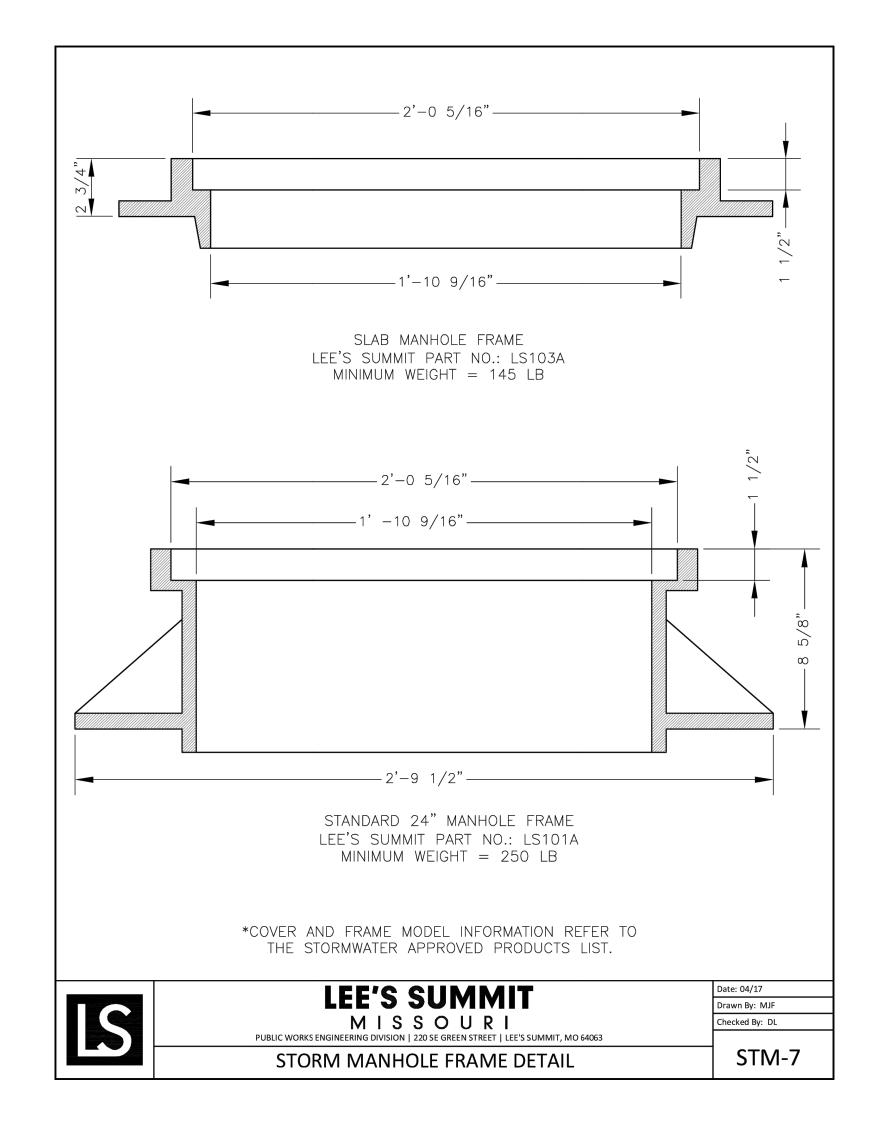
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SHEET TITLE

STORM SEWER DETAILS

C702





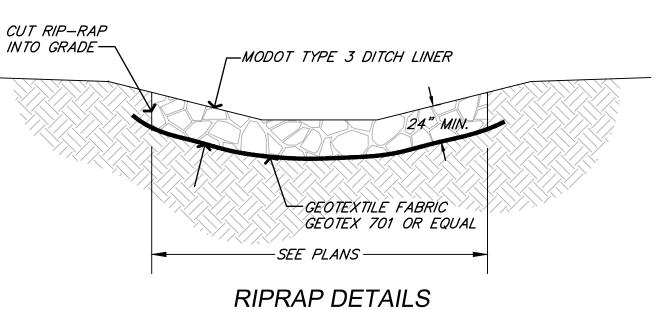
RIP—RAP NOTES:

1. ROCK TO BE USED FOR RIP—RAP SHALL CONSIST OF INDIVIDUAL ROCK FRAGMENTS THAT ARE DENSE, SOUND, AND RESISTANT TO ABRASION. THE ROCK SHALL BE FREE OF CRACKS, SEAMS, AND OTHER DEFECTS THAT WOULD TEND TO INCREASE THE DESTRUCTION OF THE INDIVIDUAL ROCK FRAGMENTS DUE TO WATER AND FRONT ACTION. REFER APWA SECTION

- 2. RIP—RAP SHALL HAVE A MINIMUM THICKNESS OF 24" AT ALL LOCATIONS SHOWN ON THE PLANS. RIP—RAP SHALL BE PLACED ON GEOTEXTILE FABRIC AS SHOWN IN THE DETAIL.
- 3. 24" THICK RIP—RAP SHALL BE WELL—GRADED (D50 = 14") AND CONFORM TO THE TABLE BELOW:

PERCENT LIGHTER	WEIGHT, LE
100	700
<i>85–95</i>	<i>525</i>
<i>30–50</i>	<i>175</i>
0–15	<i>30</i>

4. A SAMPLE OF ALL ROCK TO BE PLACED SHALL BE SET ASIDE AT A QUARRY CHOSEN BY THE CONTRACTOR AND VISUALLY INSPECTED BY THE CONTRACTOR FOR QUALITY TO ENSURE ROCK MEETS ALL REQUIREMENTS PRIOR TO DELIVERY.



NOT TO SCALE

BEDDING DEPTH BELOW PIPE

PIPE DIAMETER IN SOIL IN ROCK

24" AND LESS 4" 6"

27" THRU 60" 4" 9"

1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY

-UNDER PAVED AREAS OR WITHIN 4' HORIZONTAL OF PAVED AREAS

1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY

1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY

-UNDER PAVED AREAS OR WITHIN 4' HORIZONTAL OF PAVED AREAS ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN

MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH,

COMPACTED TO 95% OF STANDARD DENSITY PER ASTM D-698

CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8",

ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN

CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8", COMPACTED TO 90% OF STANDARD DENSITY PER ASTM D-698

MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH,

COMPACTED IN MAX. 4" LIFTS

COMPACTED IN MAX. 4" LIFTS

COMPACTED IN MAX. 4" LIFTS

-UNDER OPEN AREAS

-UNDER OPEN AREAS

INITIAL BACKFILL

FINAL BACKFILL

GRAVEL BEDDING

GRAVEL BEDDING

(1/2"-3/4" CLEAN)

WIDTH SHALL NOT

PIPE BEDDING DETAIL

NOT TO SCALE

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CLAYTON
PROPERTIES GROUP
COBEY CREEK - 2ND
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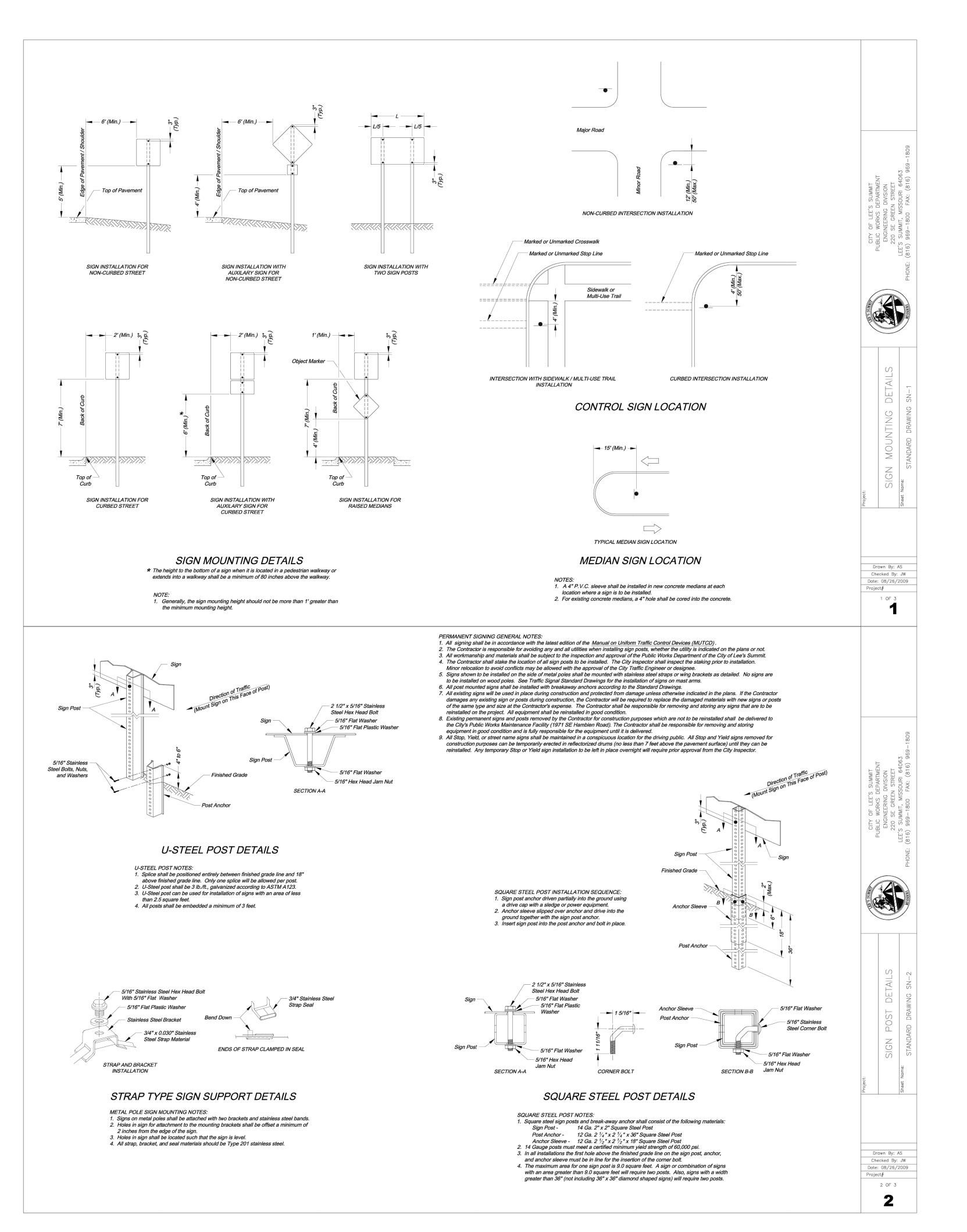
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SHEET TITLE

STORM SEWER DETAILS (2)

C703





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CLAYTON PROPERTIES GROUP COBEY CREEK - 2ND PLAT

S29, T47N, R31W LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

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NO.	DESCRIPTION	DATE

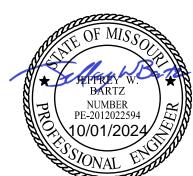
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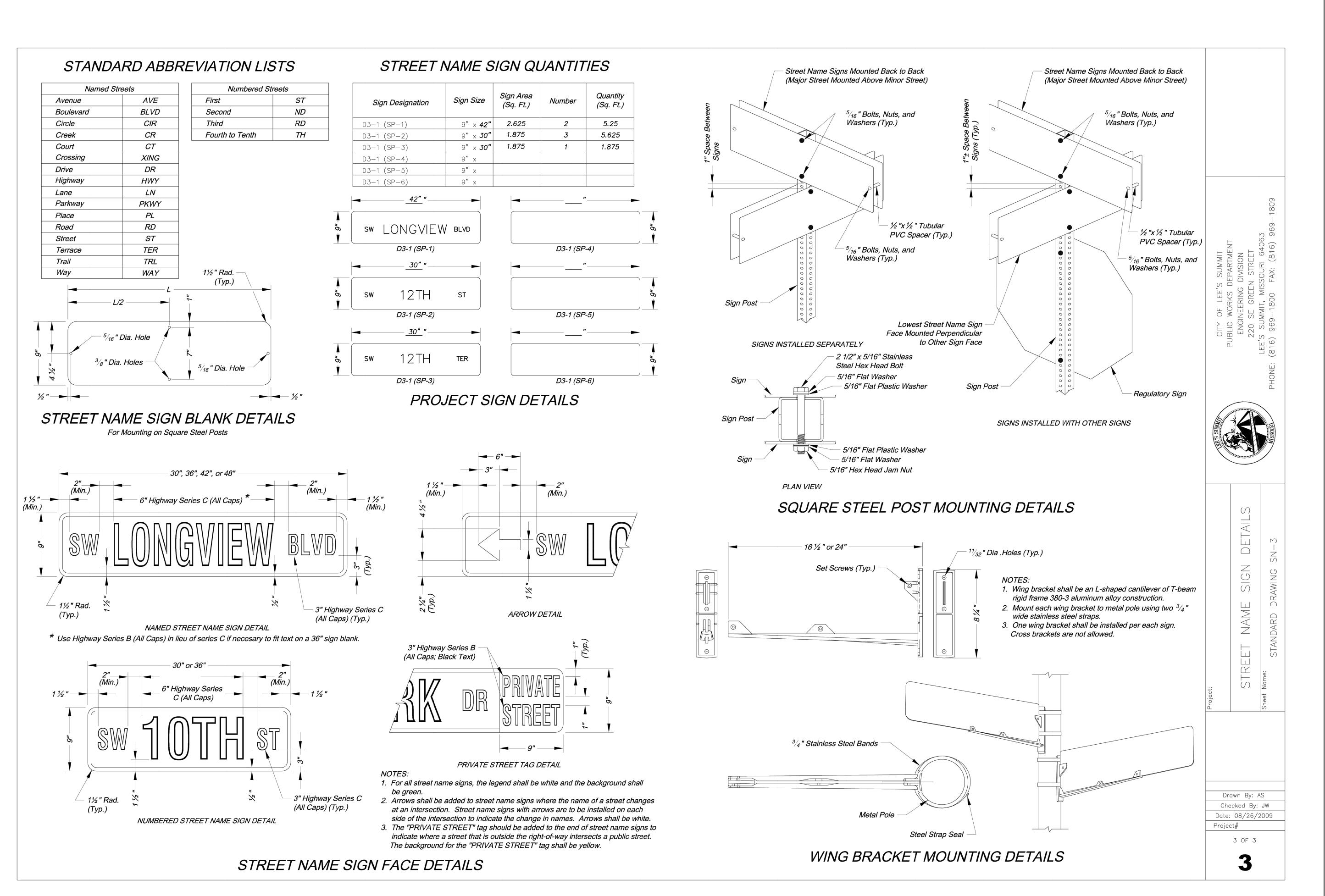
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SHEET TITLE

SIGN POST & MOUNTING DETAILS

C704



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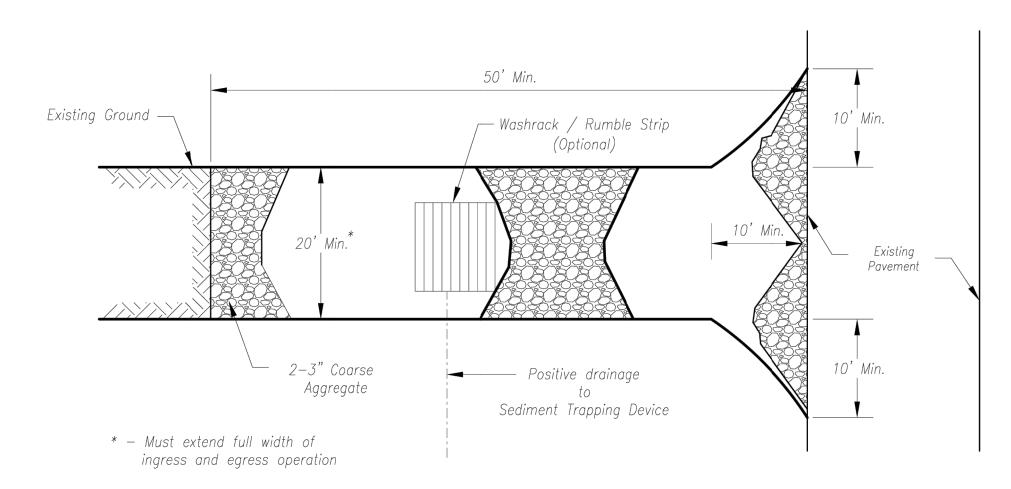
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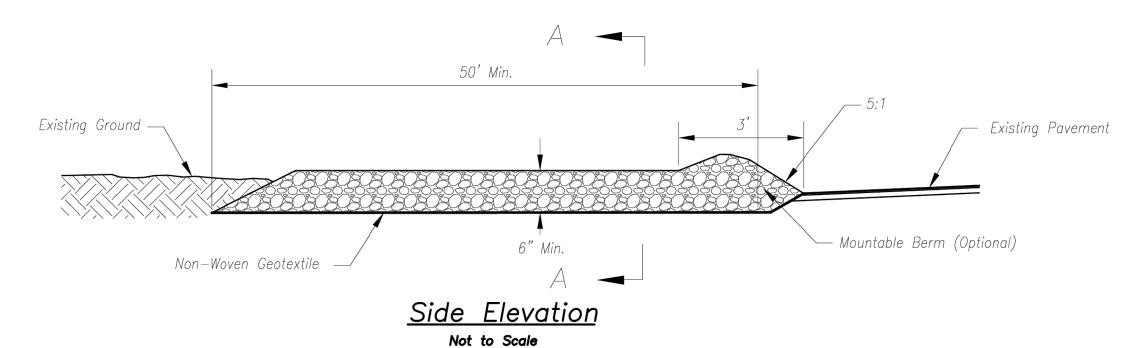
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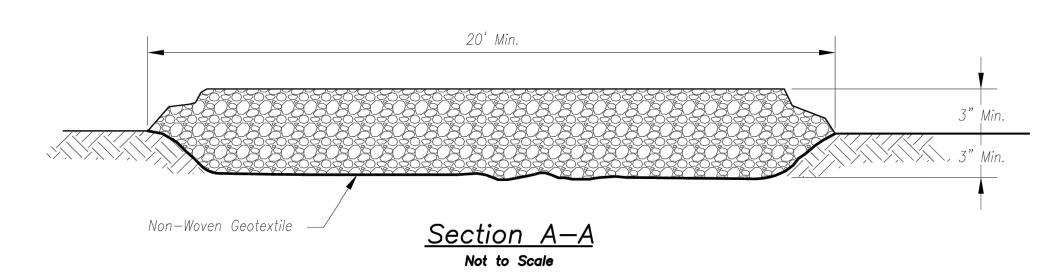
STREET NAME SIGN DETAILS

SHEET NUMBER **C705**69 OF 77



Plan View Not to Scale





Notes for Construction Entrance:

- 1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
- 2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
- 3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
- 4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
- 5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
- 6. Divert all surface runoff and drainage from the entrance to a sediment control device.
- 7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of Installation. Top dress with clean aggregate

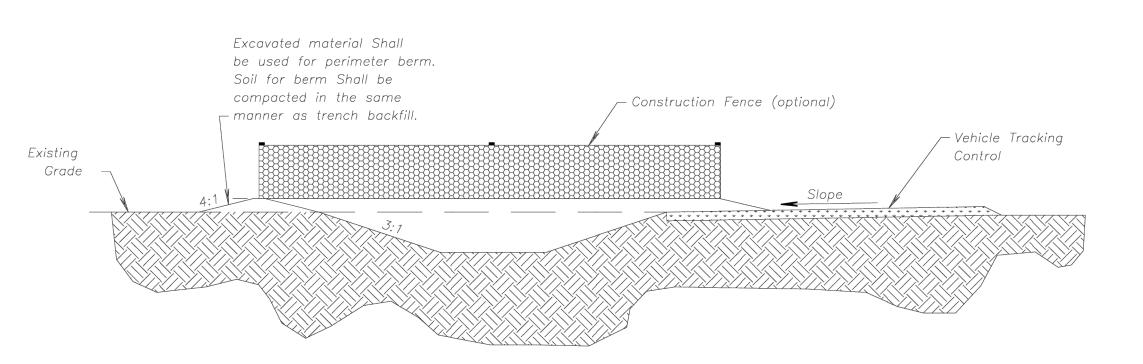
CONSTRUCTION ENTRANCE

Notes for Concrete Washout:

- 1. Concrete washout areas shall be installed prior to any concrete placement on site.
- 2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
- 3. Vehicle tracking control is required at the access point to all concrete washout areas.
- 4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
- 5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

Maintenance for Concrete Washout:

- 1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
- 2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
- 3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water—tight container and disposed of properly.
- 4. Concrete washout areas shall remain in place until all concrete for the project is placed.
- 5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



CONCRETE WASHOUT

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009

City of Great Bend Standard Drawings.

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KANSAS CITY METRO CHAPTER

CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

STANDARD DRAWING NUMBER ESC-OI ADOPTED: 10/24/2016

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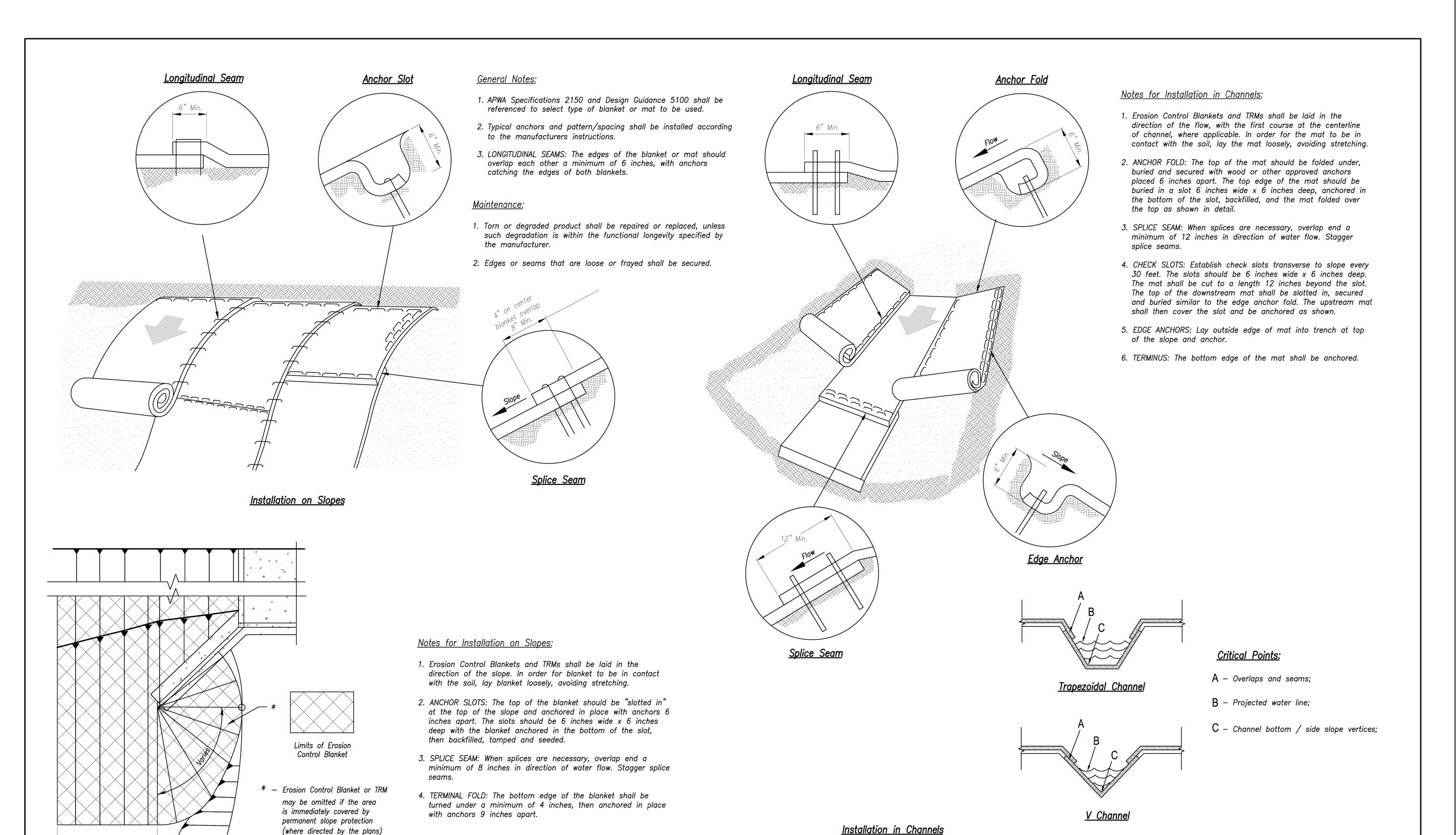
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SHEET TITLE

CONSTRUCTION **ENTRANCE DETAILS**

> SHEET NUMBER 70 OF 77

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SHEET TITLE

STEEP SLOPE **PROTECTION DETAILS**

> SHEET NUMBER 71 OF 77

KANSAS CITY

METRO CHAPTER

10/24/2016



STANDARD DRAWING EROSION CONTROL BLANKETS NUMBER ESC-02

AND TURF REINFORMENT MATS ADOPTED:

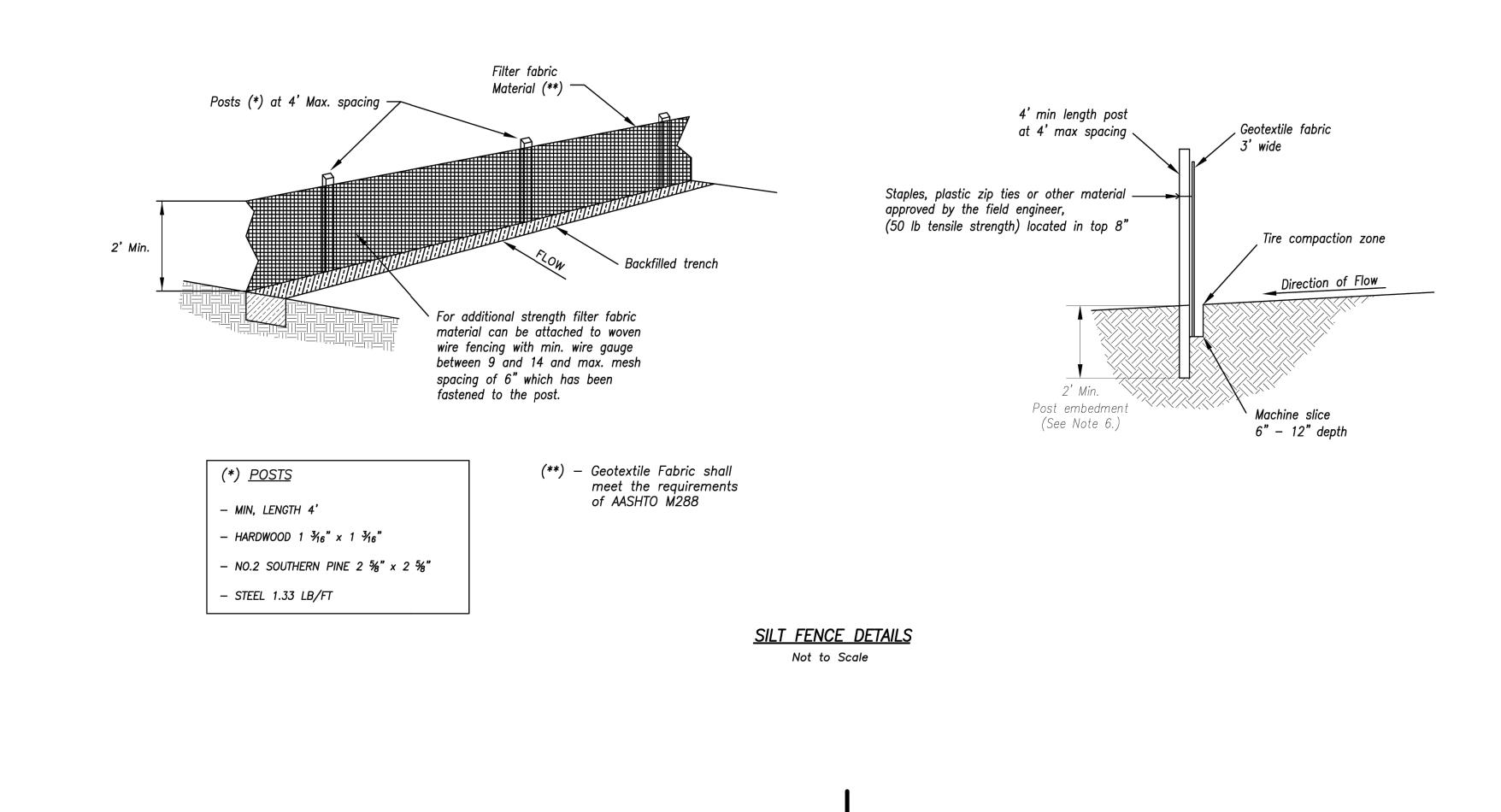
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

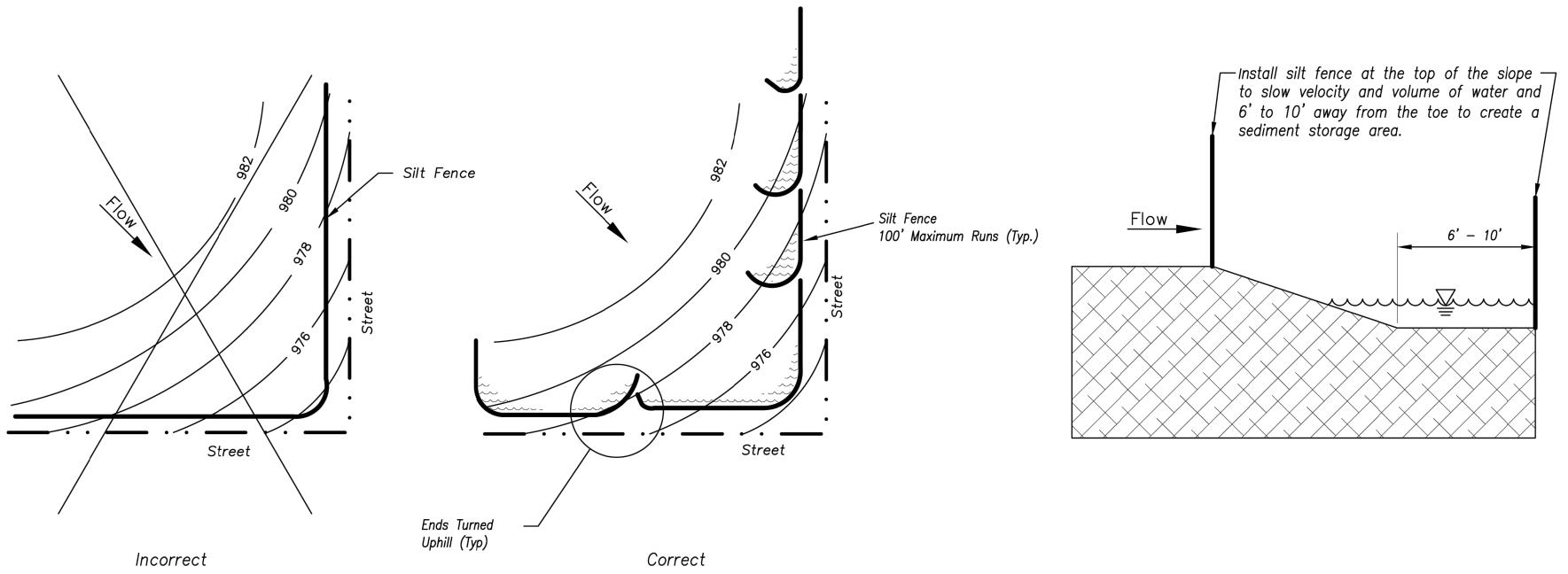
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Installation Around Culvert Slope

Partial Box Culvert Plan

Not to Scale





SILT FENCE LAYOUT

Not to Scale

AN

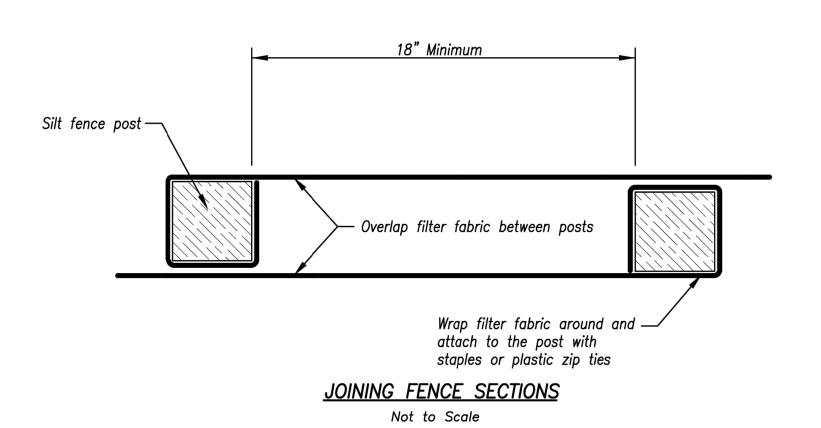
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

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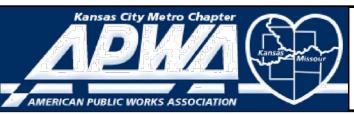
- In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
- Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
- Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
- 4. Attach fabric to upstream side of post.
- 5. Install posts a minimum of 2' into the ground.
- 6. Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used

<u>Maintenance:</u>

- 1. Remove and dispose of sediment deposits when the deposit approaches 1/3 the height of silt fence.
- 2. Repair as necessary to maintain function and structure.



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KANSAS CITY METRO CHAPTER

SILT FENCE

STANDARD DRAWING
NUMBER ESC-03
ADOPTED:
10/24/2016

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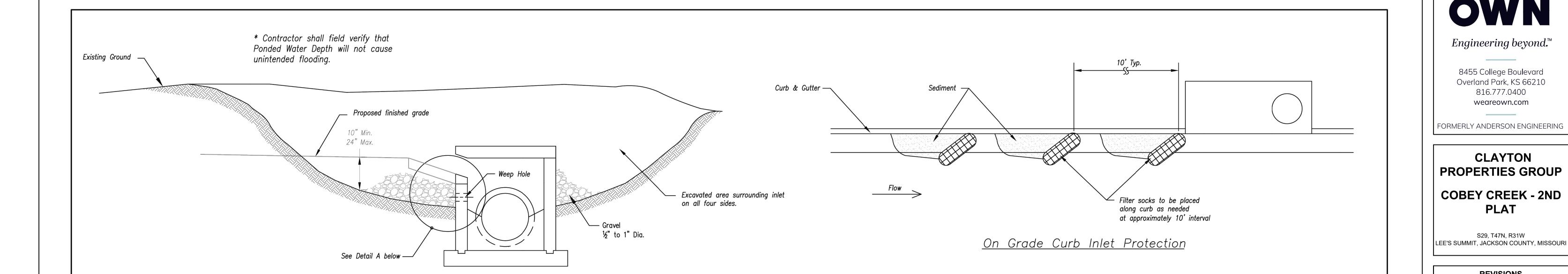
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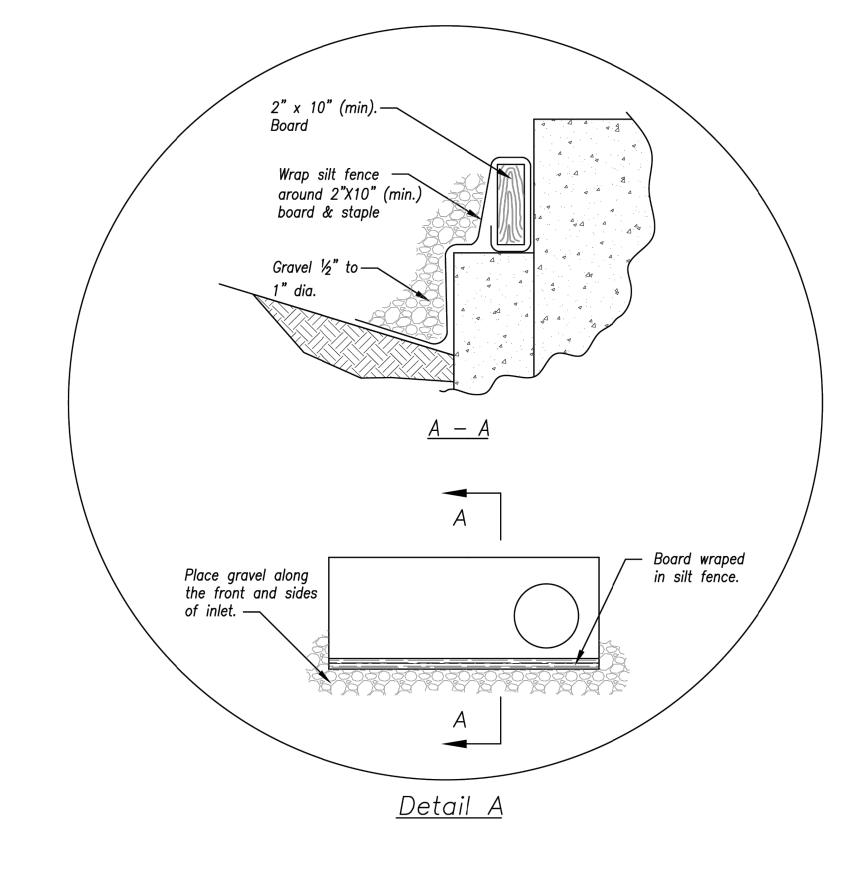
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SILT FENCE DETAILS

SHEET NUMBER
C802
72 OF 77

<u>Figure A</u>



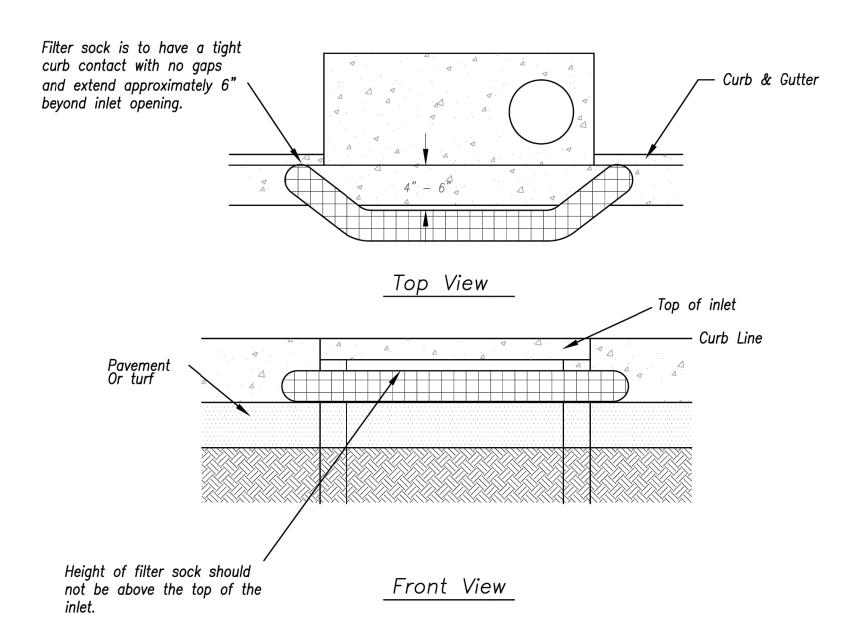


EARLY STAGE CURB INLET (Open Box and Prior to Pouring Curb and Inlet Throat)

- 1. Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" X 10" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
- 2. When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Straw wattles are not approved for curb inlet use.
- Contractor to field verify ponding water shall not create a traffic hazard.

<u>Maintenance:</u>

- 1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
- 2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
- Repair or replace as necessary to maintain function and integrity of installation.



Sump Inlet Sediment Filter

LATE STAGE CURB INLET (After Pouring Curb and Inlet Throat)

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METRO CHAPTER

CURB INLET PROTECTION

NUMBER ESC-06 ADOPTED: 10/24/2016

STANDARD DRAWING



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CLAYTON

PLAT

S29, T47N, R31W

REVISIONS

DATE

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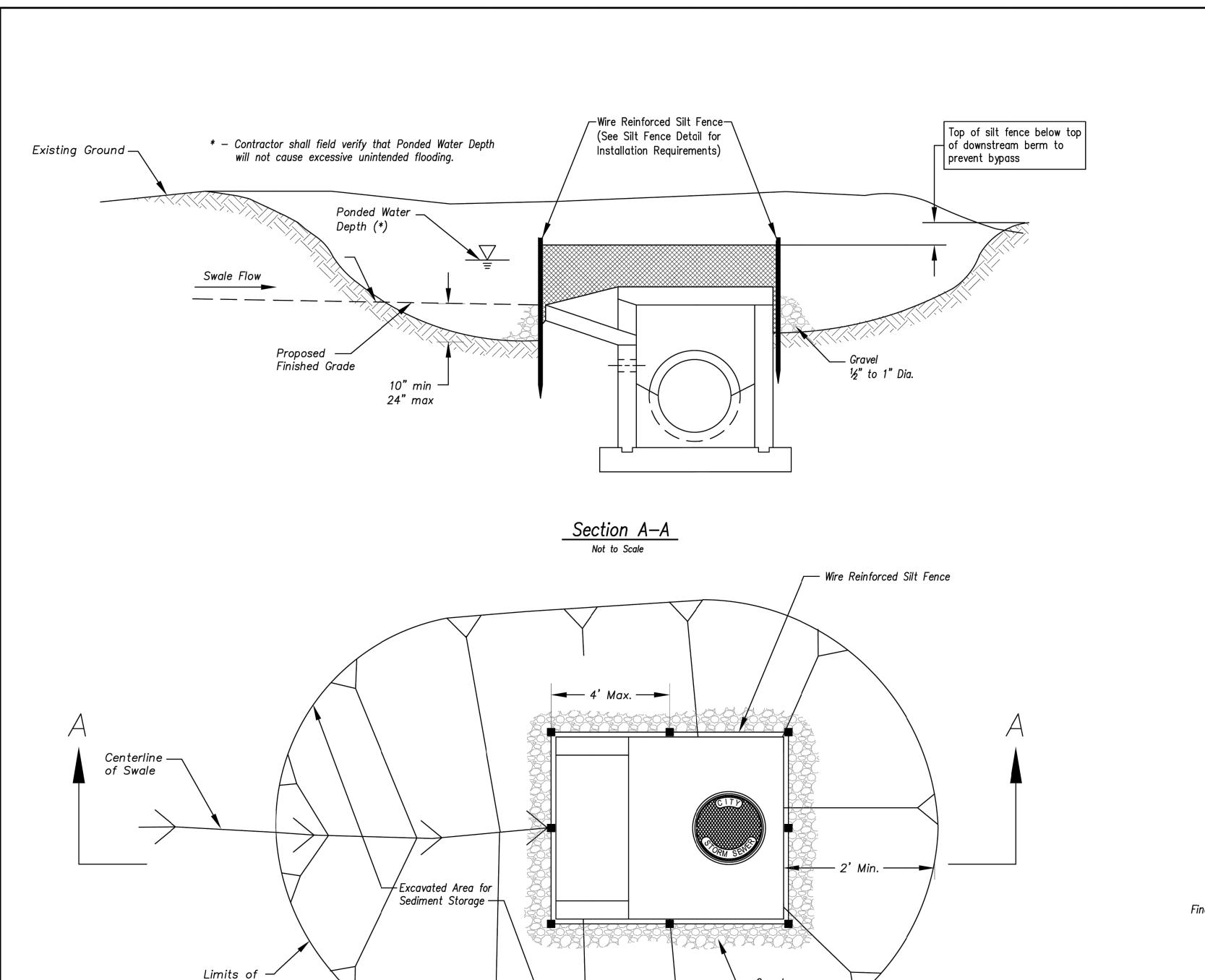
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CURB INLET PROTECTION **DETAILS**

> **SHEET NUMBER** 73 OF 77

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

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<u>Plan</u>

Not to Scale

EARLY STAGE AREA INLET

(All open boxes and inlets not at final grade)

½" to 1" Dia.

<u>Notes:</u>

constructed.

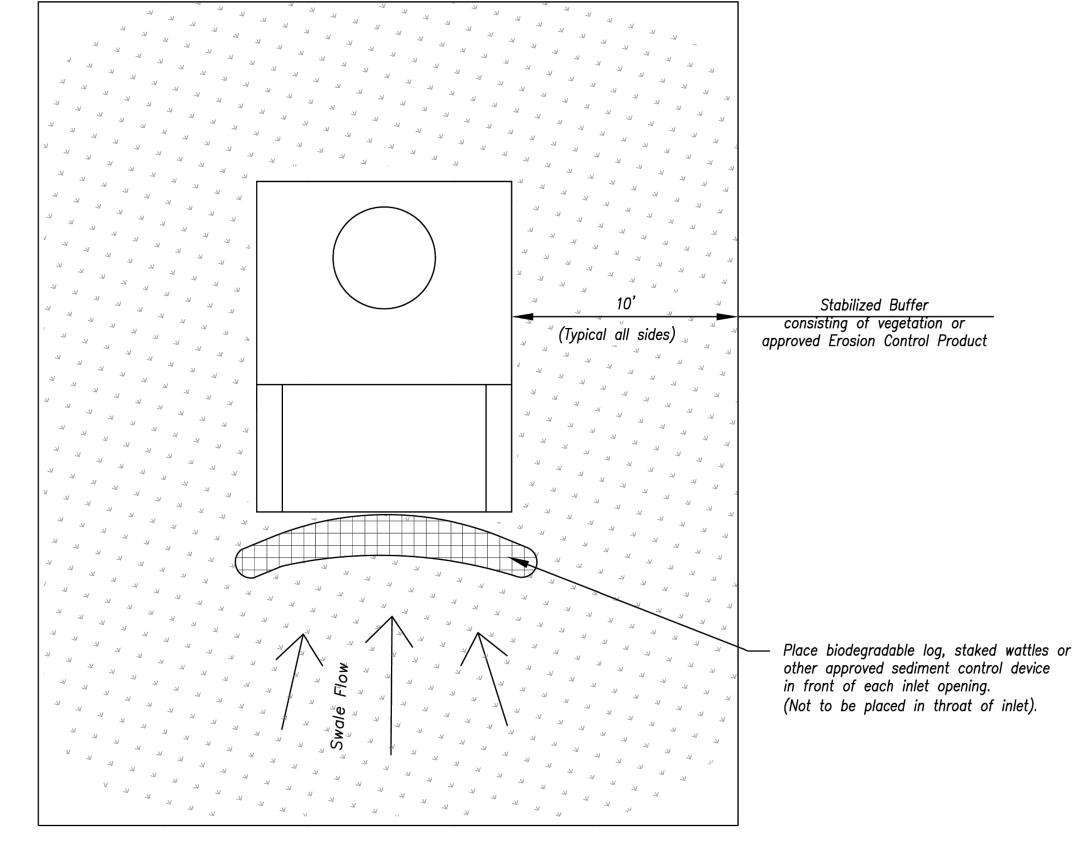
immediately follow.

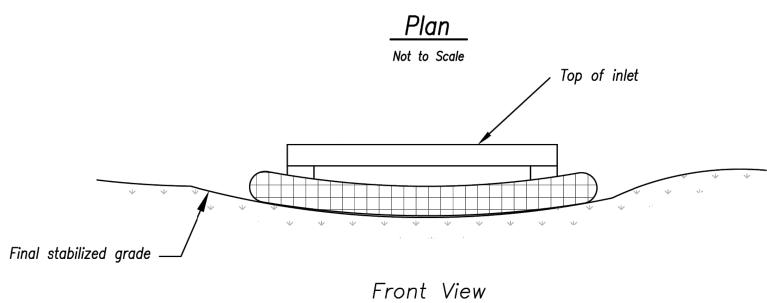
Early Stage Area Inlet Sediment Barrier to be installed immediately after inlet or junction box is

Silt fence shall remain in place until excavated area is removed and Late Stage Area Inlet is being installed.

3. Backfill excavated area ONLY after final grading of the site. Stabilization of the site is to

Wire reinforced silt fence may be used in place of silt fence attached to wood frame.





LATE STAGE AREA INLET (Area inlets at final grade and existing inlets)

<u>Maintenance:</u>

- 1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
- 2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
- 3. Repair or replace as necessary to maintain function and integrity of installation.

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AREA INLET AND

STANDARD DRAWING NUMBER ESC-07 ADOPTED: 10/24/2016

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AREA INLET PROTECTION DETAILS

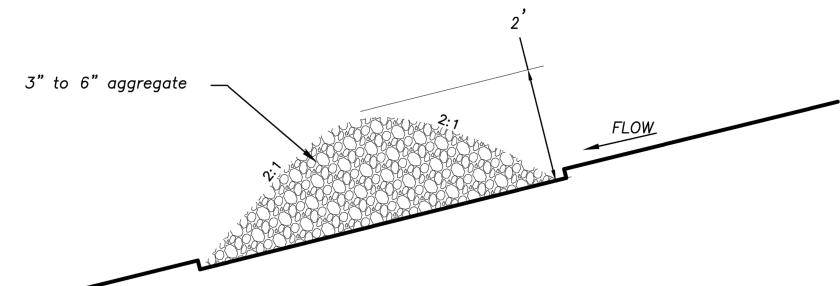
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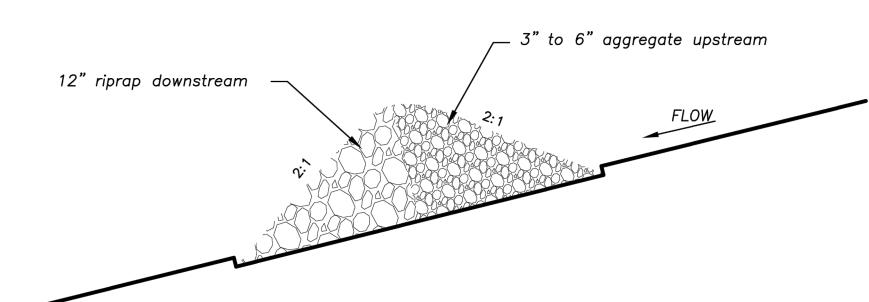
JUNCTION BOX PROTECTION

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Excavation



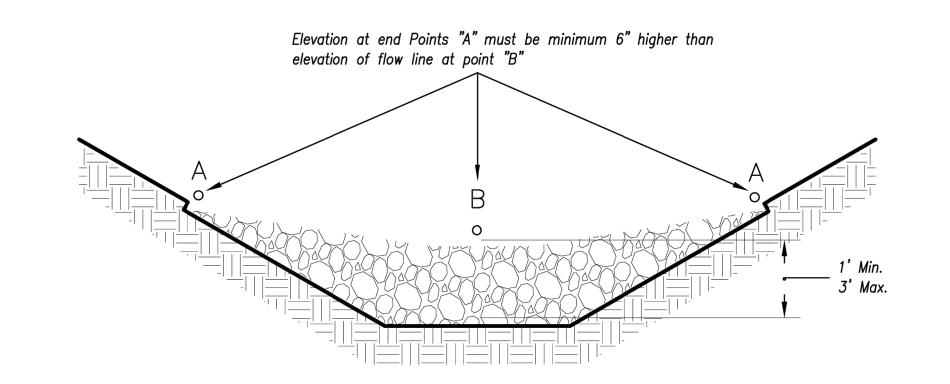
<u>Type</u> I (2 Acres or less of Drainage Area) Not to Scale

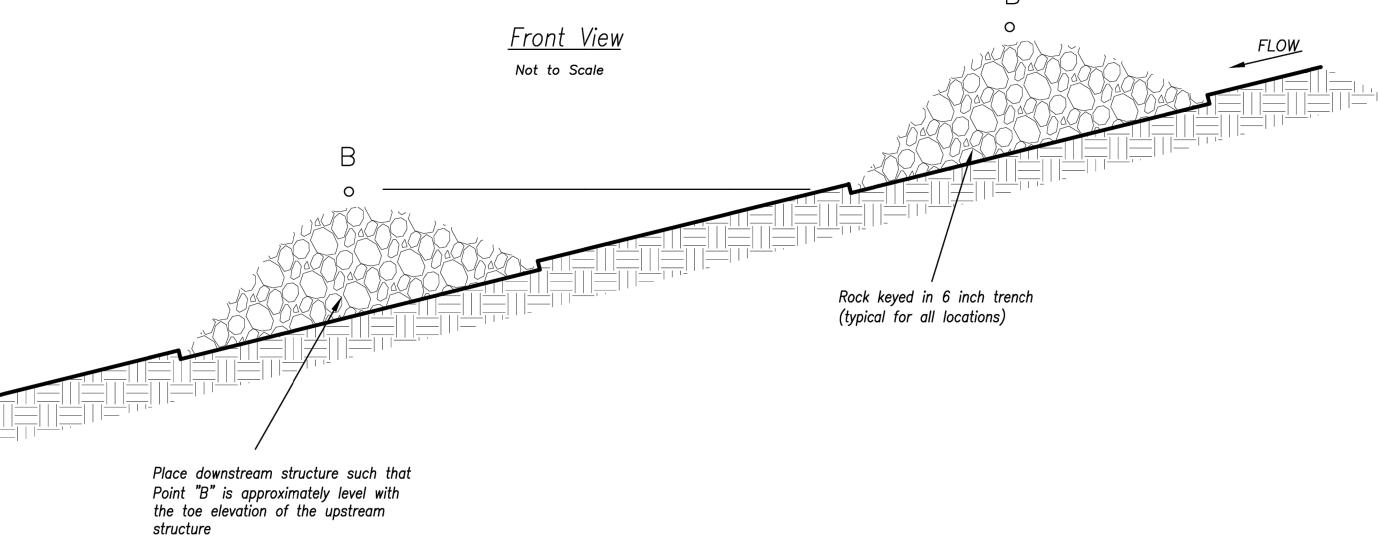


(2–10 Acres of Drainage Area) Not to Scale

ROCK DITCH CHECK

	<u>Temporary Rock Ditch Check</u> <u>Spacing</u>				
Ditch Centerline Slope (%)	Spacing Interval (Feet)				
5.0	60				
6.0	50				
7.0	43				
8.0	36				
9.0	33				
10.0	29				
Note: Use this spo Rock Ditch	5 ,				





<u>Notes:</u>

- 1. Rock check dams shall be used only for drainage areas less that 10 acres unless approved by the City Engineer.
- 2. Use rock checks only in situations where the ditch slope exceeds 6%.

<u>Maintenance:</u>

- 1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of the ditch check.
- 2. Replace and reshape as necessary to maintain function and integrity of installation.

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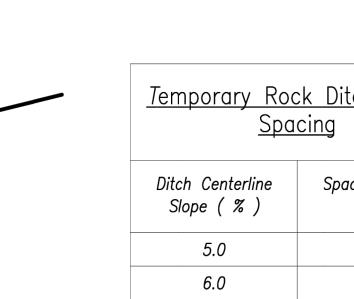
METRO CHAPTER

ROCK DITCH CHECKS

ADOPTED:

STANDARD DRAWING NUMBER ESC-10

10/24/2016



Spacing Between Check Dams (all types) Not to Scale

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

SHEET NUMBER

75 OF 77

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CLAYTON

PROPERTIES GROUP

COBEY CREEK - 2ND

PLAT

S29, T47N, R31W LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

REVISIONS

DRAWING INFORMATION

PROJECT NO: 21KC10060

DRAWN BY: JK

CHECK BY: JB

ISSUED FOR: REVIEW

ISSUED DATE: 10/01/2024

ISSUED BY: **JEFFREY BARTZ**

LICENSE NO: PE - 2012022594

A licensed Missouri

Engineering Corporation COA 00062

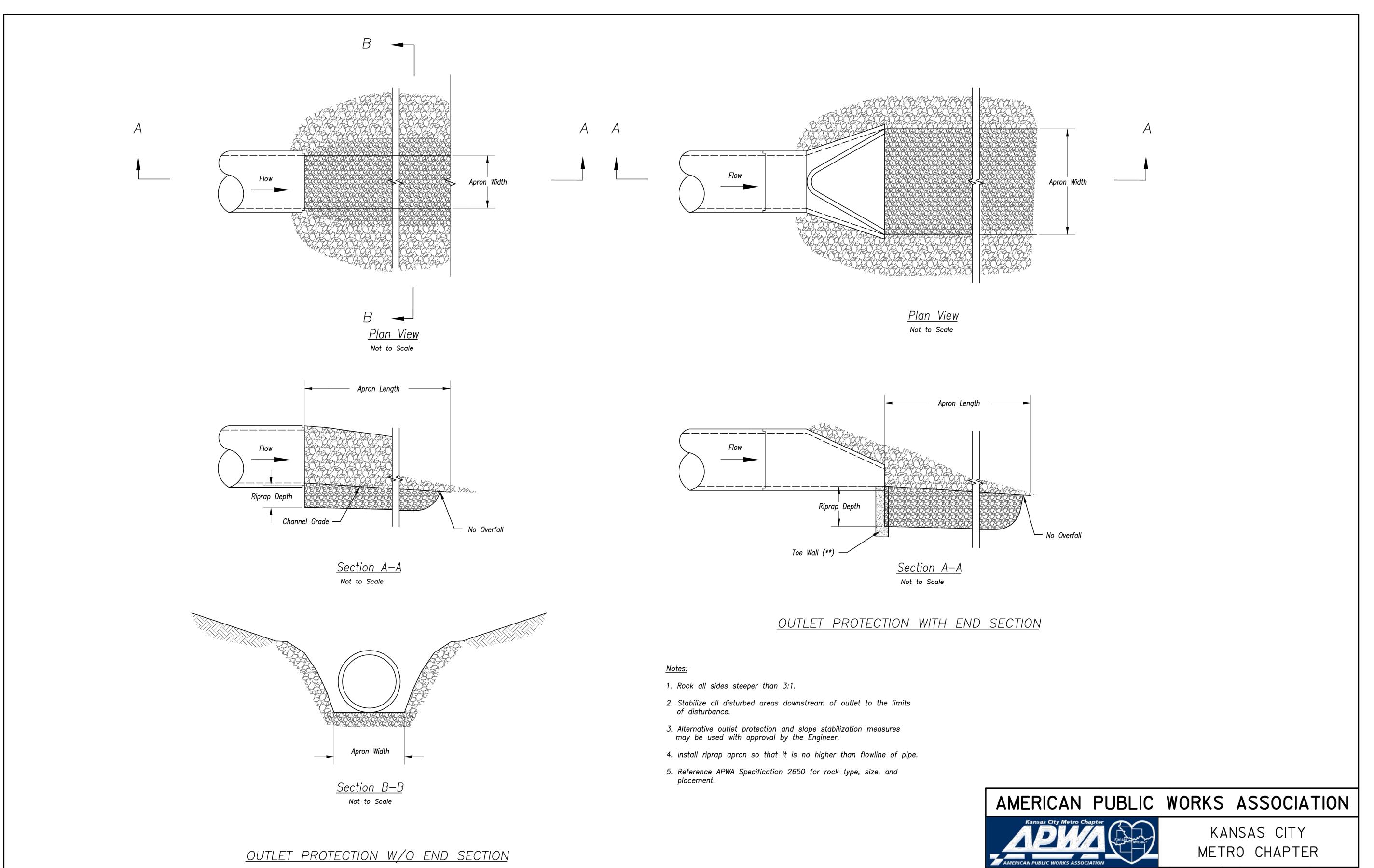
SHEET TITLE

ROCK DITCH

CHECKS

DESCRIPTION

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CLAYTON PROPERTIES GROUP COBEY CREEK - 2ND PLAT

S29, T47N, R31W LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

REVISIONS		
NO.	DESCRIPTION	DATE

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PROJECT NO: 21KC10060

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ISSUED BY: **JEFFREY BARTZ** LICENSE NO: PE - 2012022594

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SHEET TITLE

OUTLET PROTECTION **DETAILS**

SHEET NUMBER 76 OF 77



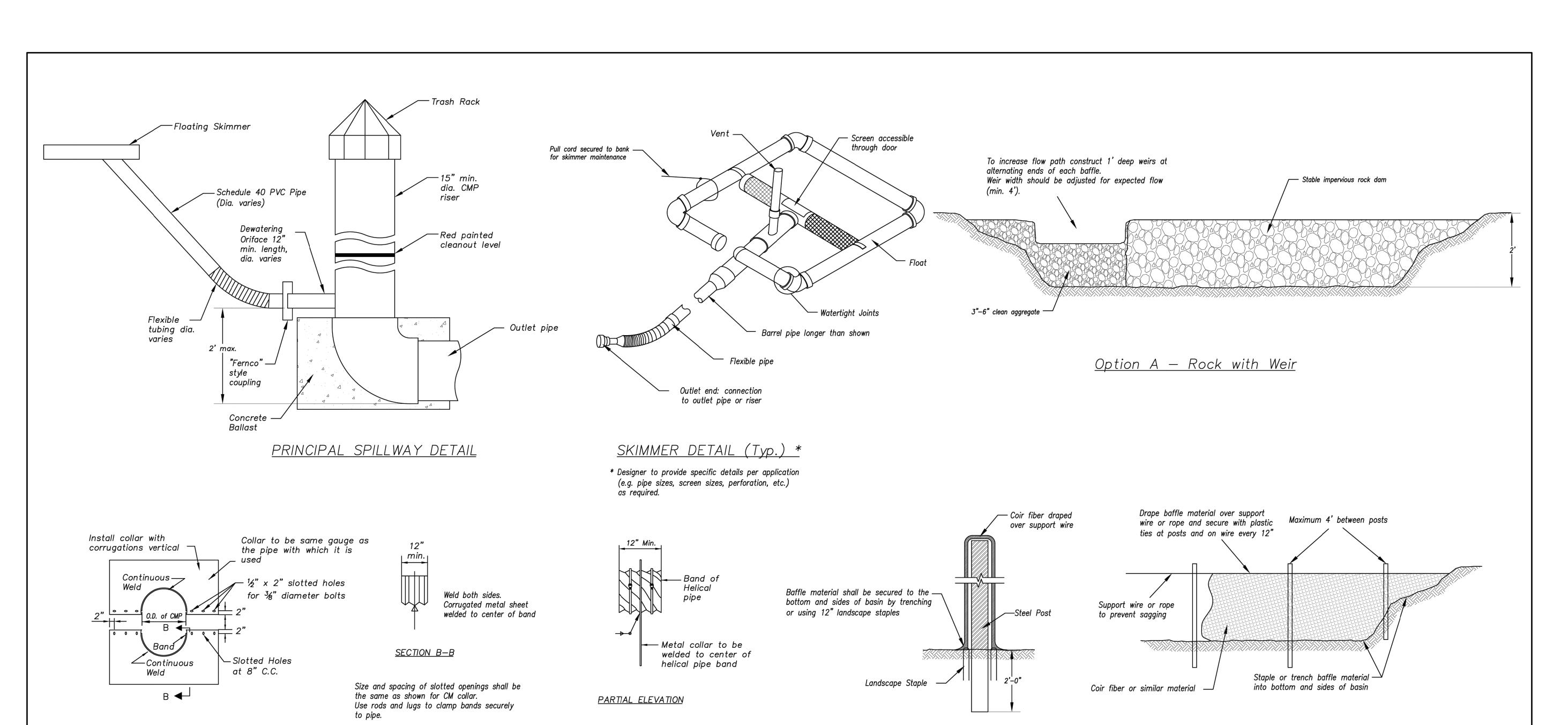
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

OUTLET PROTECTION

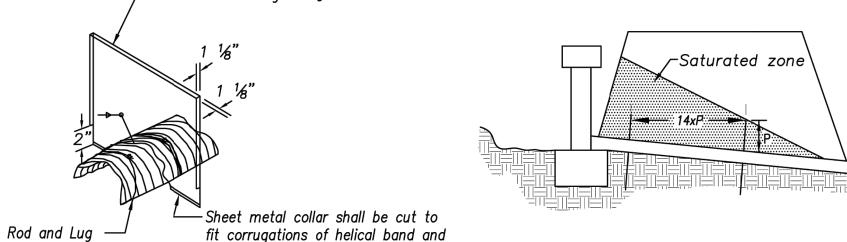
STANDARD DRAWING NUMBER ESC-14 ADOPTED:

10/24/2016

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Weld 1 1/6" x 1 1/6" angles to collar

welded with continuous weld

ISOMETRIC VIEW

ANTI-SEEPAGE COLLAR LOCATIONS

CORRUGATED METAL ANTI-SEEPAGE COLLAR DETAIL Not to Scale

<u>Anti-Seepage Collar Notes:</u>

- 1. Connections between the anti-seepage collar and the barrel must be watertight.
- 2. P = projection distance. Sized as required to achieve at least a 10% increase in seepage
- 3. 14xP = Max. spacing between collars.
- 4. Collars shall generally be placed in the middle third of the embankment, and within the saturated zone.
- 5. All materials to be in accordance with construction material specifications.
- 6. When specified on the plans, coating of collars shall be in accordance with construction material specifications.
- Unassembled collars shall be marked by painting or tagging to identify matching pairs.

- 8. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at the time of
- 9. Each collar shall be furnished with two (2) 1/2" diameter rods with standard tank lugs for connecting the collars to the pipe.
- 10. For bands and collars, modification of the details shown may be used providing equal water tightness is maintained and detailed drawings are Submitted and approved by the Engineer prior to delivery.
- 11. Two other types of anti-seep collars are:
 - a. Corrugated metal, similar to above, except shop welded to a 4 ft. section of the pipe and connected to the pipe with connecting bands.
- b. Concrete, 6 inches thick, formed around the pipe with #3 rebar spaced 15".

Modified from 2015 Overland Park Standard Details

for Erosion and Sediment Control.

BAFFLE DETAILS Not to Scale

<u> Option B — Coir Fiber Material</u>



KANSAS CITY METRO CHAPTER

SEDIMENT BASIN - DETAILS

STANDARD DRAWING NUMBER ESC-12 ADOPTED: 10/24/2016

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REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING INFORMATION

PROJECT NO: 21KC10060

DRAWN BY: **JK** CHECK BY: JB

ISSUED FOR: REVIEW ISSUED DATE: 10/01/2024



ISSUED BY: JEFFREY BARTZ LICENSE NO: PE - 2012022594

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SHEET TITLE

SEDIMENT BASIN **DETAILS**

> SHEET NUMBER 77 OF 77

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