

APPLICATION NOTES

- THE PRIMARY PURPOSE OF A SILT FENCE OR SEDIMENT FILTER LOG IS TO INTERCEPT SEDIMENT LAIDEN RUNOFF BY IMPOUNDING WATER BEHIND THE FENCE OR LOG SO THAT SEDIMENT FALLS OUT OF SUSPENSION.
- IDENTIFY ON-SITE AND OFF-SITE RESOURCES THAT NEED TO BE PROTECTED USING THE SILT FENCE OR SEDIMENT FILTER LOG. THESE INCLUDES: POND, WATERWAYS OR ENVIRONMENTALLY SENSITIVE AREAS. SILT FENCE OR SEDIMENT FILTER LOGS ARE TYPICALLY USED WITH EROSION OR SEDIMENT CONTROL MEASURES, SUCH AS MULCH AND/OR ROLLED EROSION CONTROL FABRIC.
- SILT FENCE OR SEDIMENT FILTER LOGS SHALL NOT BE USED IN OR ACROSS A FLOWING CHANNEL, OR AREAS OF CONCENTRATED FLOW. DO NOT USE SILT FENCE OR SEDIMENT FILTER LOGS AS A PERIMETER CONTROL, TO DEFINE PROPERTY LINES, OR TO DELINEATE A RESOURCE.

GENERAL NOTES

- SILT FENCE OR SEDIMENT FILTER LOGS SHALL BE INSTALLED ON A LINE OF EQUAL ELEVATION CONTOURS. IT MAY BE INSTALLED AT INTERMEDIATE POINTS UP SLOPES AS WELL AS AT THE BOTTOM.
- FOR LOCATIONS THAT WARRANT PLACEMENT OF SILT FENCE OR SEDIMENT FILTER LOGS AT THE BASE OF SLOPES, SILT FENCE OR SEDIMENT FILTER LOGS SHALL BE PLACED A MINIMUM OF 10 FEET FROM THE TOE OF THE SLOPE, TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF THE SEDIMENT CONTAINMENT AREA.
- THE ENDS OF A ROW OF SILT FENCE OR SEDIMENT FILTER LOGS SHALL BE ANGLED UP SLOPE TO PREVENT CHANNELLED FLOW FROM BEING CONVEYED PAST THE ENDS OF THE FENCE. A SECTION OF SILT FENCE OR SEDIMENT FILTER LOGS SHOULD NOT EXCEED 100 FEET IN LENGTH.
- WOOD POSTS FOR SILT FENCE SHALL HAVE A CROSS-SECTION AREA OF 3.5 SQUARE INCHES OR STEEL POSTS SHALL BE "4" OR "10" SHAPED AND 1.55 POUNDS/FEET MINIMUM FOR STEEL. SPACING FOR THE PROVIDED SILT FENCE POSTS SHALL BE AS RECOMMENDED ON THE DEPARTMENT APPROVED LIST FOR SILT FENCE. THE LENGTH OF SILT FENCE POSTS SHALL BE 40 INCHES. WOOD POSTS FOR SEDIMENT FILTER LOGS SHALL BE NOMINAL 2X2. THE LENGTH OF FILTER LOG POSTS SHALL BE 15' GREATER THAN THE DIAMETER OF THE LOG.
- THE BOTTOM EDGE OF SILT FENCE SHALL BE BURIED A MINIMUM OF 6" BELOW GROUND. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSLOPE SIDE OF THE FABRIC.
- WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED AND FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS. THE END POSTS OF TWO SECTIONS SHALL BE WRAPPED AS SHOWN IN THE DETAIL FOR SILT FENCE END WRAPPING.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE ABOVE GROUND HEIGHT OR WHEN RIDGES DEVELOP IN THE FABRIC. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
- THE FOLLOWING ARE MAXIMUM SLOPE LENGTHS DISTANCE BETWEEN ROWS FOR SILT FENCE INSTALLATION:

SLOPE STEEPNESS	STANDARD**	REINFORCED***
+5-10%	20:1 TO 10:1	125
10-20%	10:1 TO 5:1	100
20-33%	5:1 TO 3:1	60
33-50%	3:1 TO 2:1	40
> 50%	> 2:1	20

* FOR SLOPES LESS THAN 5% SILT FENCE IS NOT REQUIRED UNLESS IN SENSITIVE AREAS OR HIGHLY ERODIBLE SOILS.

** STANDARD SILT FENCE IS FABRIC ROLLS STAPLED TO WOODEN POSTS DRIVEN 18 INCHES INTO THE GROUND.

*** REINFORCED SILT FENCE IS FABRIC PLACED AGAINST WELDED WIRE MESH WITH ANCHORED STEEL POSTS DRIVEN 18 INCHES INTO THE GROUND.

SEDIMENT FILTER LOG MAX SLOPE LENGTH (FEET)

DIA. (IN)	2	5	10	15	20	25	33	50
12	250	225	125	65	50	40	25	
18	275	250	150	70	55	45	30	
24	350	275	200	130	100	60	35	

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U.S. CUSTOMARY STANDARD SHEET

LINEAR MEASURES

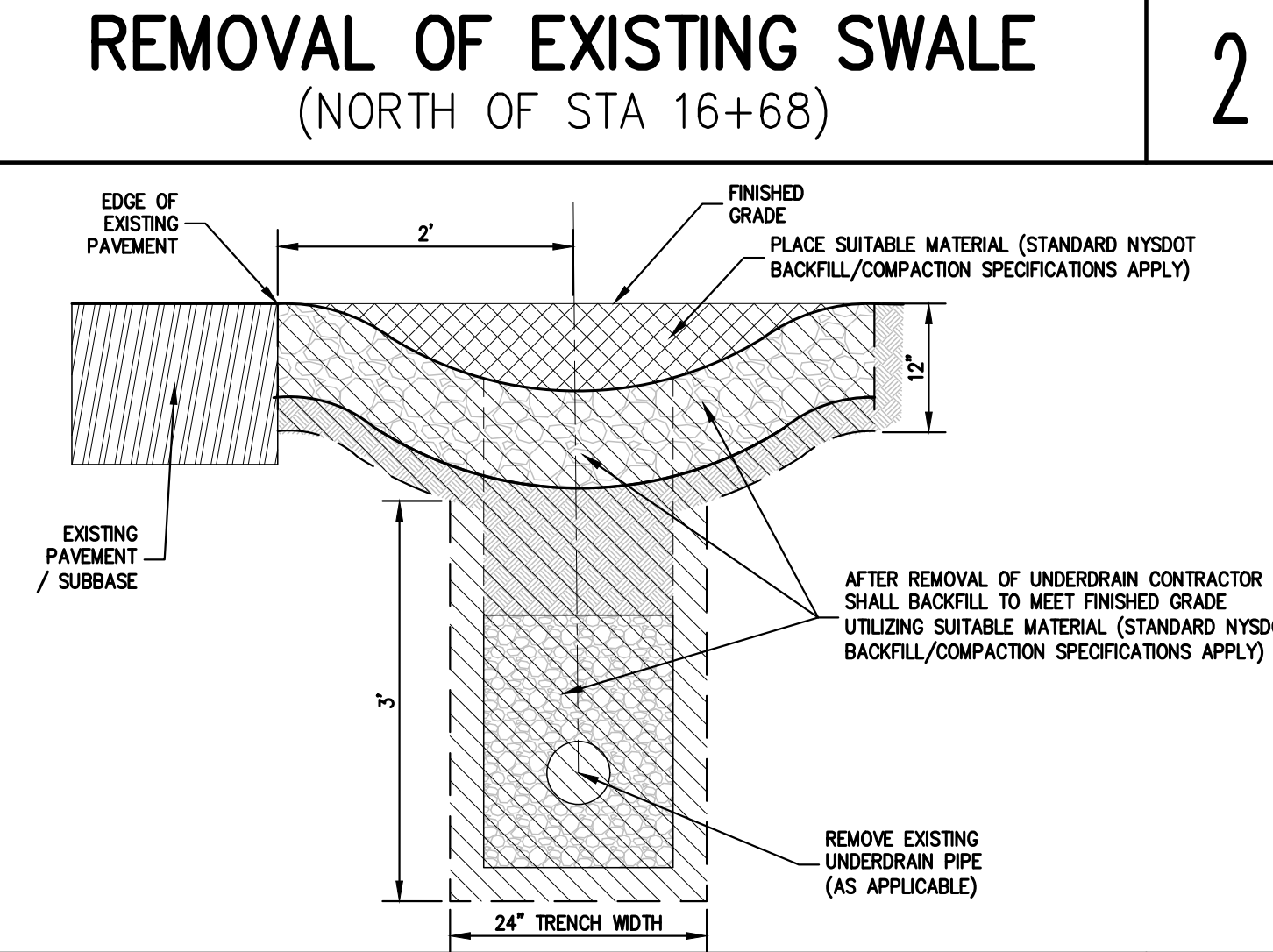
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/S/ RICHARD WILDER, P.E. TERRY CHIEF ENGINEER DESIGN

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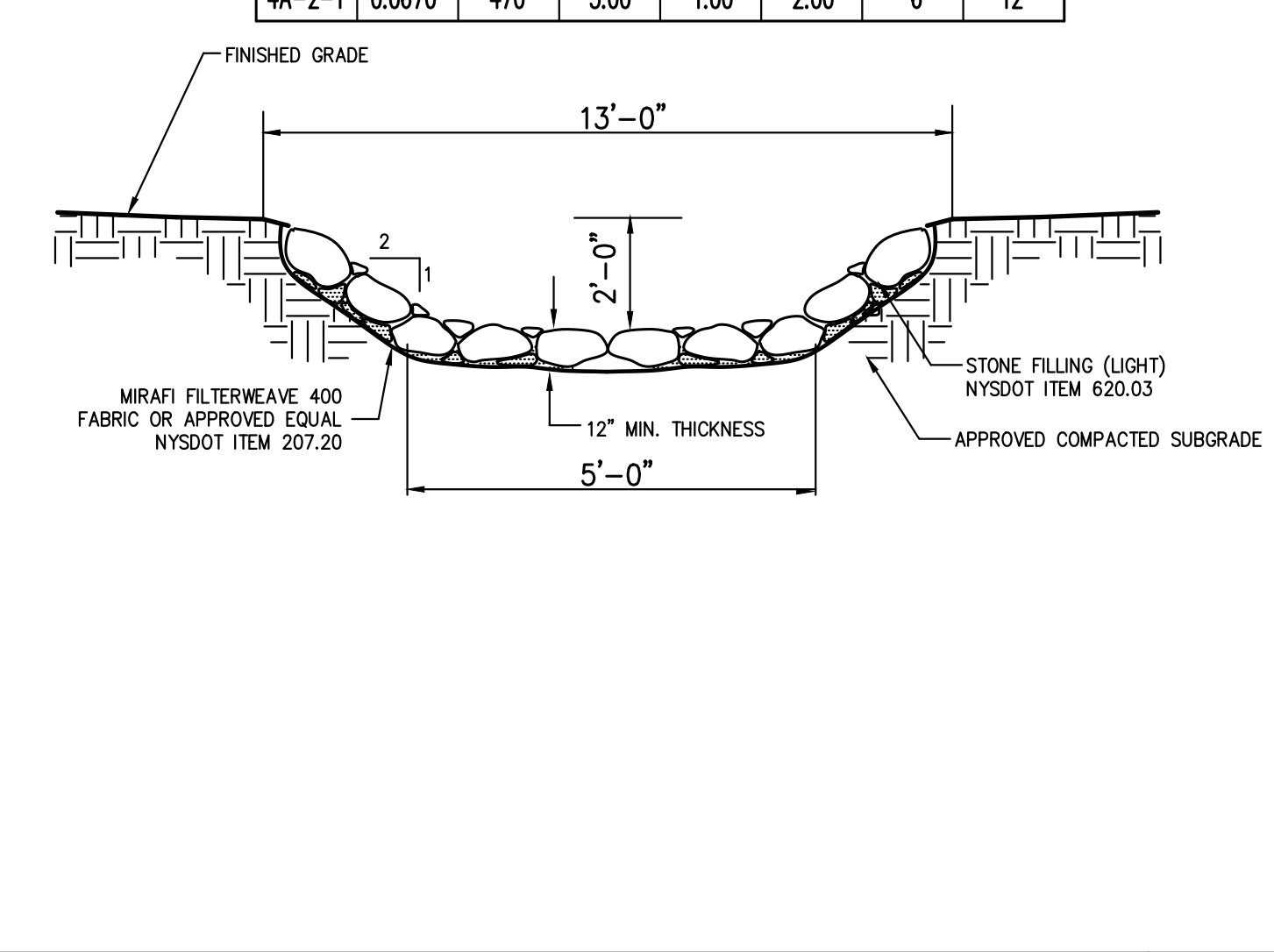
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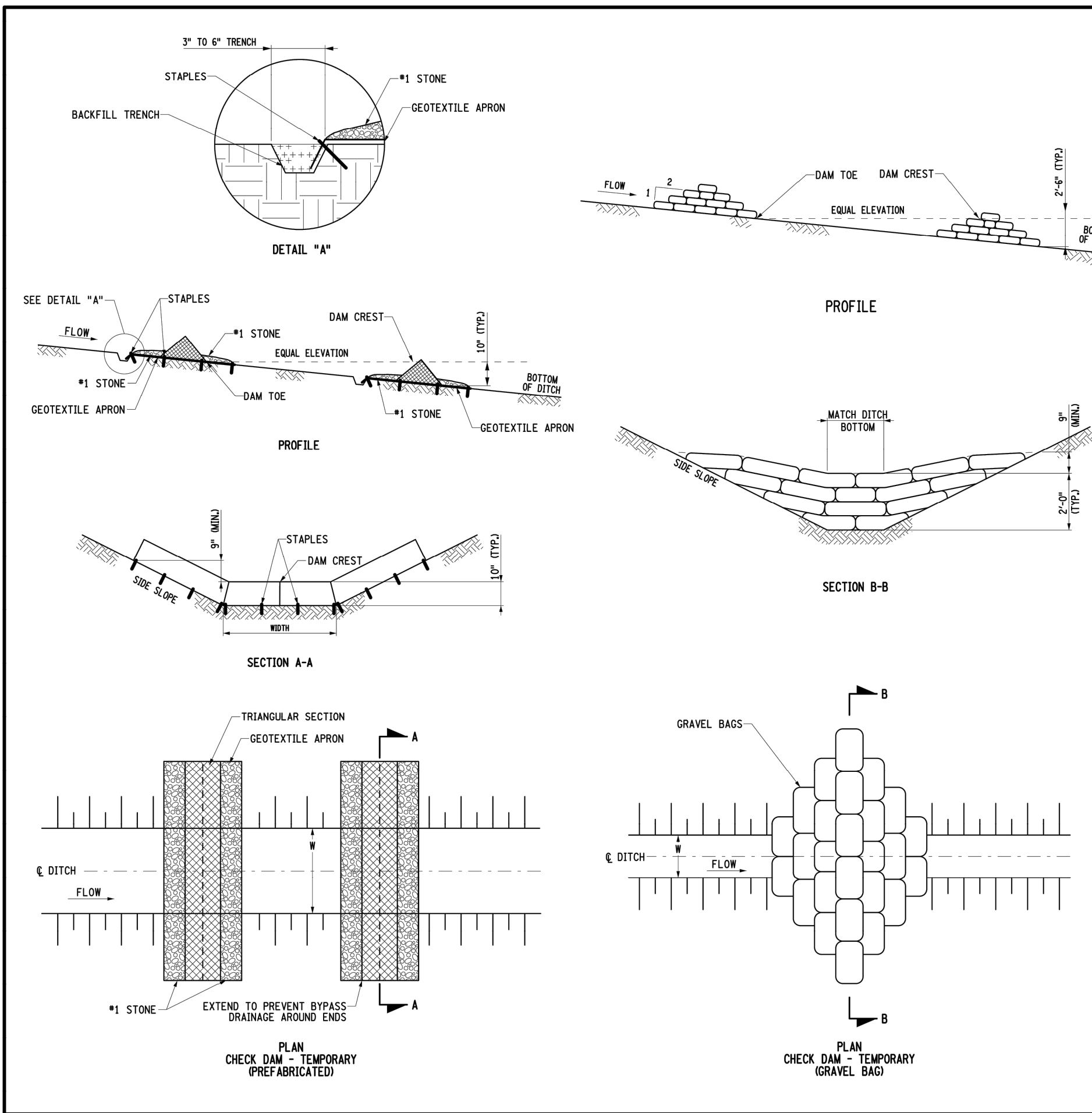


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APPLICATION NOTES

- THE PRIMARY PURPOSE OF A CHECK DAM IS TO REDUCE EROSION IN A CHANNEL BY REDUCING FLOW VELOCITY IN THE CHANNEL.
- CHECK DAMS WILL CAPTURE SEDIMENT THAT FALLS OUT OF SUSPENSION BEHIND THE CHECK DAM DUE TO DECREASED VELOCITY.
- CHECK DAMS ARE NOT INTENDED TO, AND WILL NOT, FILTER SEDIMENT FROM TURBID WATER.
- PREFABRICATED CHECK DAMS ARE NOT TO BE USED ON SLOPES GREATER THAN 5%.
- GRAVEL BAGS SHALL BE FILLED WITH CLEAN STONE TO PREVENT RECEIVING WATERS FROM BECOMING TURBID.
- SEDIMENT FILTER LOGS MAY BE SUBSTITUTED FOR PREFABRICATED CHECK DAMS. POSTS SHALL BE NOMINAL 2X2 WOOD. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

- THE UPWILL END OF THE APRON FOR THE PREFABRICATED CHECK DAM SHALL BE BURIED AND STAPLED AS SHOWN IN DETAIL "A" OR AS RECOMMENDED BY THE MANUFACTURER'S LITERATURE. COST OF EXCAVATION FOR INSTALLATION SHALL BE INCLUDED IN PRICE BID FOR ITEM.
- DRAINAGE AREAS MAXIMUM DRAINAGE AREA TRIBUTARY TO PREFABRICATED CHECK DAM SHALL BE 1/4 ACRE. MAXIMUM DRAINAGE AREA TRIBUTARY TO GRAVEL BAG CHECK DAM SHALL BE 1/2 ACRE.
- GRAVEL BAGS SHALL BE INDIVIDUALLY TIED, DOUBLE BAGGED AND INVERSELY INSERTED. BAGS SHALL OVERLAP THE JOINTS BETWEEN THE BAGS IN THE LAYER BELOW. GRAVEL BAGS ARE FILLED WITH CLEAN STONE, FATHER THAN SAND, TO PREVENT SEDIMENT FROM ENTERING A WATERCOURSE IF BAGS ARE DAMAGED DURING USE.
- MEASURES SHALL BE INSPECTED EVERY OTHER 10 CALENDAR DAYS AND SHOULD BE INSPECTED AFTER EACH RUNOFF EVENT. MEASURES SHALL BE REPAIRED AS REQUIRED.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.

PREFABRICATED CHECK DAM PLACEMENT INTERVAL *

DITCH SLOPE	PLACEMENT INTERVAL BASED ON 10' HEIGHT
1X	8'
2X	42'
3X	28'
4X	21'
5X	16'

GRAVEL BAG CHECK DAM PLACEMENT INTERVAL *

DITCH SLOPE	PLACEMENT INTERVAL BASED ON 2' HEIGHT
1X	200'
2X	100'
3X	66'
4X	50'
5X	40'
6X	33'
8X	25'
10X	20'

* T = H / S

WHERE:
T = CHECK DAM SPACING INTERVAL
H = CHECK DAM HEIGHT
S = CHANNEL SLOPE

GRAVEL BAG CHECK DAM ITEM SUFFIXES

SUFFIX (00)	DITCH BOTTOM WIDTH
01	1.0' - 3.0'
02	> 3.0' - 6.0'
03	> 6.0' - 10.0'
04	> 10.0'

GRAVEL BAG CHECK DAM CHECK DAM VOLUMES

DITCH SIDE SLOPE	VOLUME (CY)
1:2	1.0 CY ±
1.5:1	1.5 CY ±
1.4:1	2.0 CY ±
1:1	3.0 CY ±

BASED ON V-SHAPED DITCH SECTION FOR TROPEZOIDAL DITCH, AND 1 CURB-PAID / PAID OF DITCH WIDTH

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CHECK DAMS (SHEET 2 OF 2)

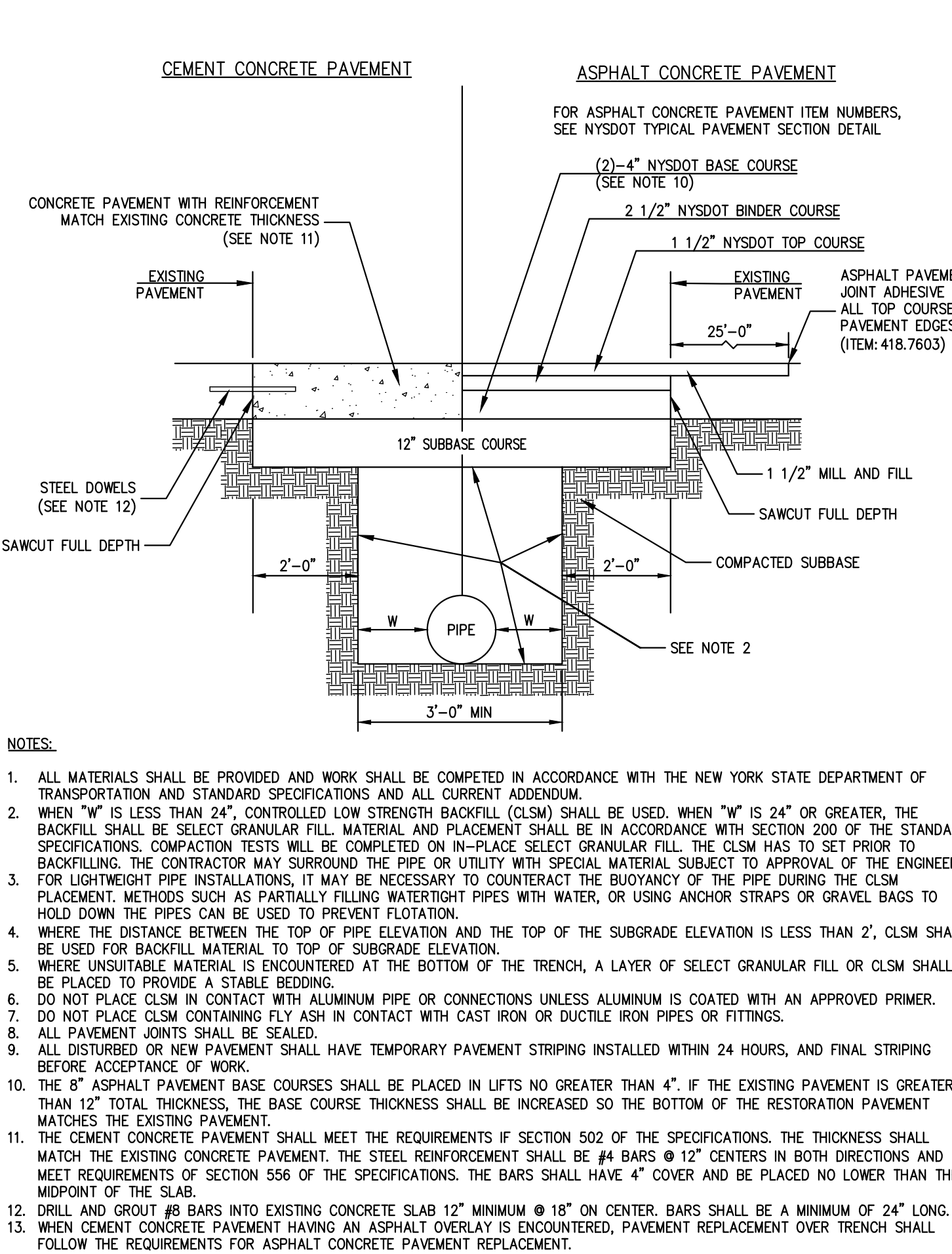
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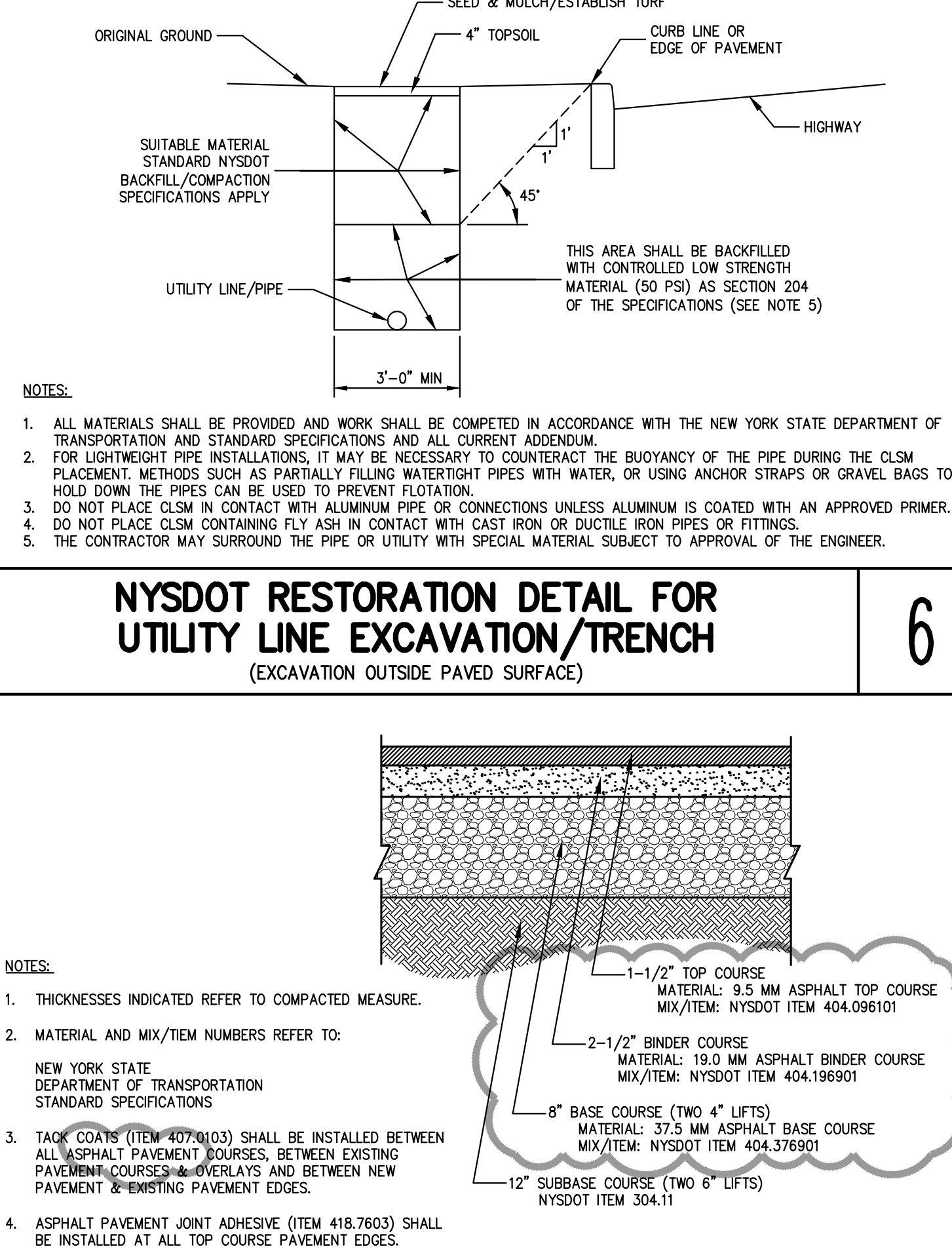
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TEMPORARY CHECK DAMS

NYSDOT DETAIL OF PAVEMENT REPLACEMENT OVER TRENCH

NYSDOT FULL DEPTH PAVEMENT SECTION

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC

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NYSDOT DETAILS

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100% DETAILS HWY-1 -

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