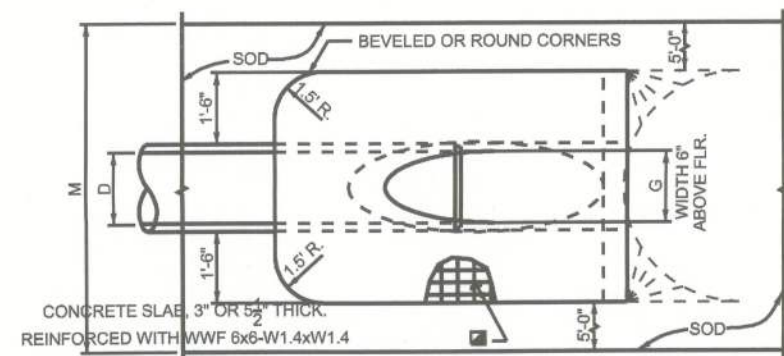
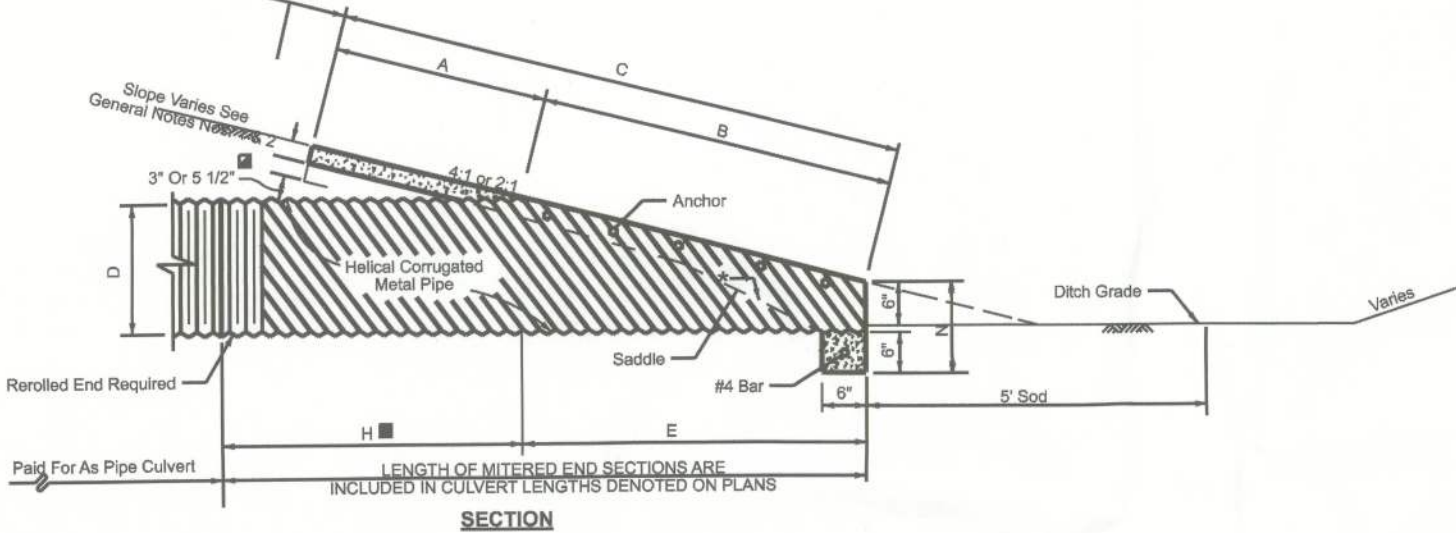


TYPE "F" CURB & GUTTER
NTS

DIMENSIONS AND QUANTITIES													
Ad SLOPE	D	X	A	B	C	E	F	G	H	M	CONC. (cu) SINGLE PIPE	CONC. (cu) SINGLE PIPE	CONC. (cu) SINGLE PIPE
15"	2'-7"	2'-6"	3'-0"	5'-5"	3'-0"	7'	1'-23"	4'	4'-33"	1'-04"	0.44	22	
18"	2'-10"	2'-9"	4'-12"	6'-8"	4'-0"	8'	1'-41"	4'	4'-58"	1'-04"	0.48	24	
24"	3'-4"	2'-5"	5'-10"	8'-8"	5'-0"	12'	1'-73"	4'	5'-08"	1'-04"	0.65	27	



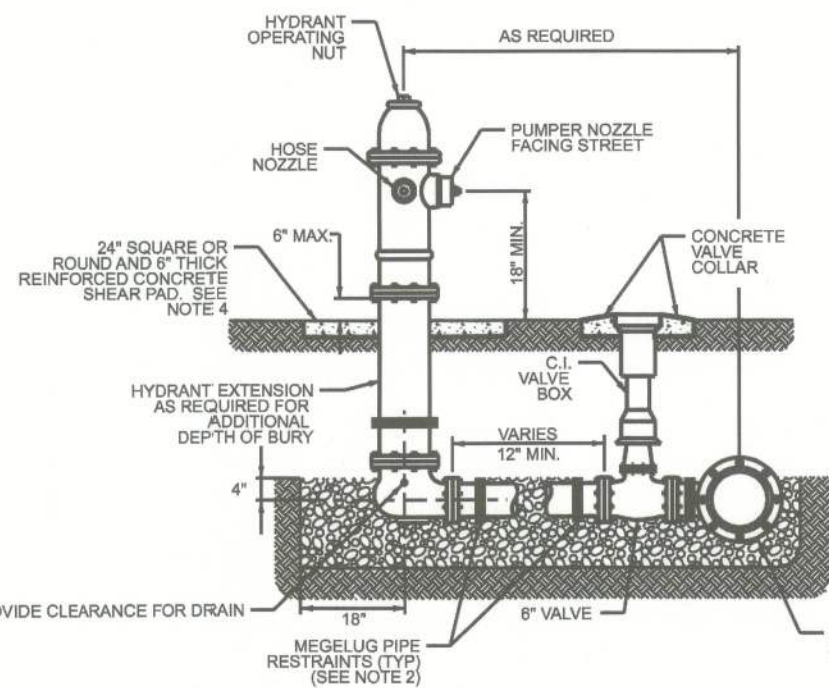
TOP VIEW - SINGLE PIPE



SECTION

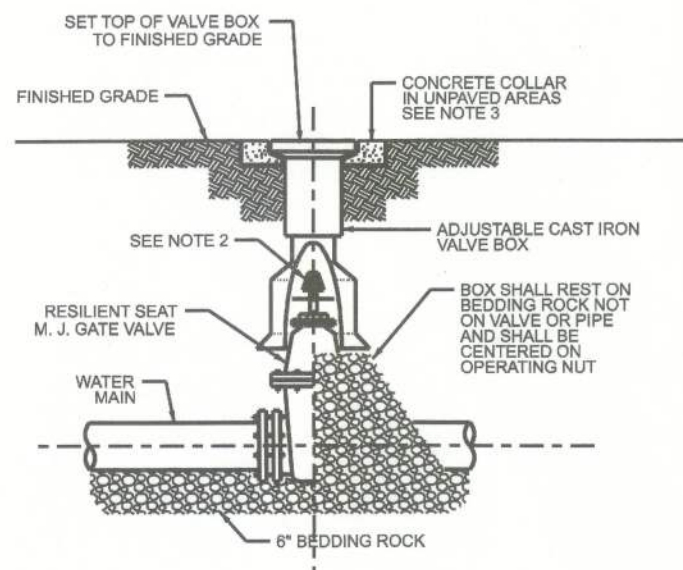
- Values shown for estimating pipe quantities and are for information only.
- The reinforced concrete slab shall be constructed for all sizes of cross drain pipe and cast in place with Class I concrete.
- Slabs shall be 5 1/2" thick unless 3" thickness is called for in plans.
- SLOPE: 4d MITER TO C.L. PIPE FOR PIPES 18" AND SMALLER.
- 2d FOR PIPES 24" AND LARGER.
- 2d MITER TO C.L. PIPE FOR PIPES 18" AND SMALLER.
- 1d FOR PIPES 24" AND LARGER.

CROSS DRAIN MITERED END SECTION
SINGLE ROUND CORRUGATED METAL PIPE
NTS



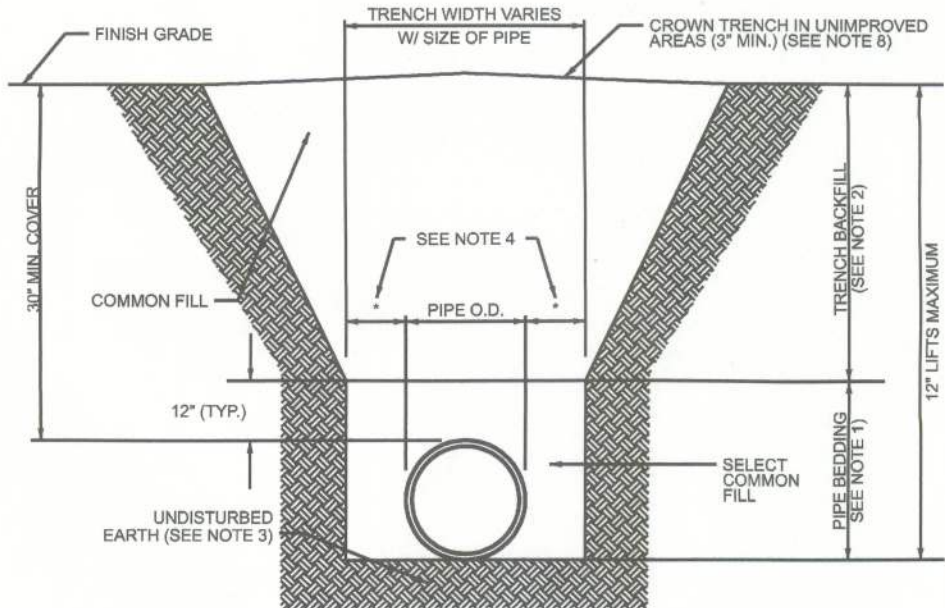
- GRAVEL TO BE PLACED AROUND DRAIN
- ALL MECHANICAL JOINTS SHALL BE RESTRAINED BY MEGALUG RESTRAINTS OR APPROVED EQUAL
- THE DEVELOPER MAY INSTALL THE SHEAR PAD RECESSED UP TO 4 INCHES BELOW FINISHED GRADE AND SOO THE RECESSED SECTION

FIRE HYDRANT ASSEMBLY
NTS



- PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
- THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.
- VALVE COLLAR SHALL BE 18"X18"X8" CONCRETE COLLAR W/ 4" BARS.

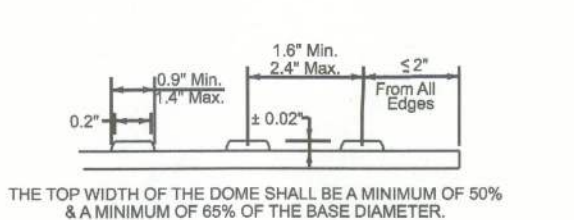
GATE VALVE AND BOX DETAIL
NTS



- PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 90% OF THE MAXIMUM DENSITY AS PER ASTM D 1557.
- TRENCH BACKFILL: COMMON FILL COMPACTED TO 90% OF THE MAXIMUM DENSITY AS PER ASTM D 1557.
- PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK WILL BE REQUIRED IF OVER-SIZING OCCURS.
- 1" - 18" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
- WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
- ALL PIPE TO BE INSTALLED WITH BELL ENDING UPSTREAM TO THE DIRECTION OF THE FLOW.
- PROVIDE TRENCH SLOPING AND BRACING AS REQUIRED FOR SAFETY.
- FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN PAVED AREAS SHALL COMPLY WITH THE REQUIREMENTS OF THE ROAD CONSTRUCTION SPECIFICATIONS.

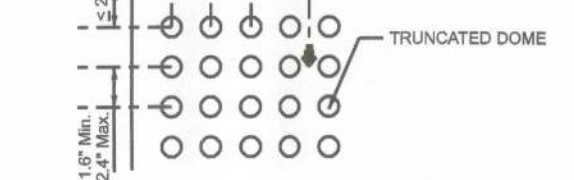
TRENCH AND BACKFILL DETAIL
NTS

TRUNCATED DOME
NTS



TRUNCATED DOME
NTS

- ON RAMP THAT ARE PERPENDICULAR WITH THE CURB LINE, THE DOME PATTERN SHALL BE IN LINE WITH THE DIRECTION OF TRAVEL ON RAMP WITH INTERSECTING CURBS ON A RADIUS. THE DOME PATTERN SHALL BE IN LINE WITH THE DIRECTION OF TRAVEL TO THE EXTENT PRACTICAL.

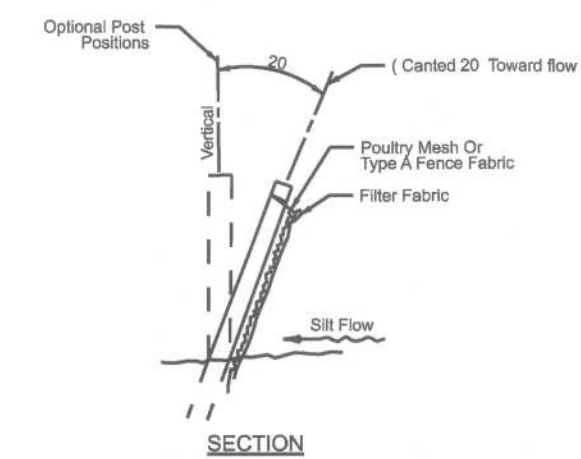


DETECTABLE WARNING SURFACE
NTS

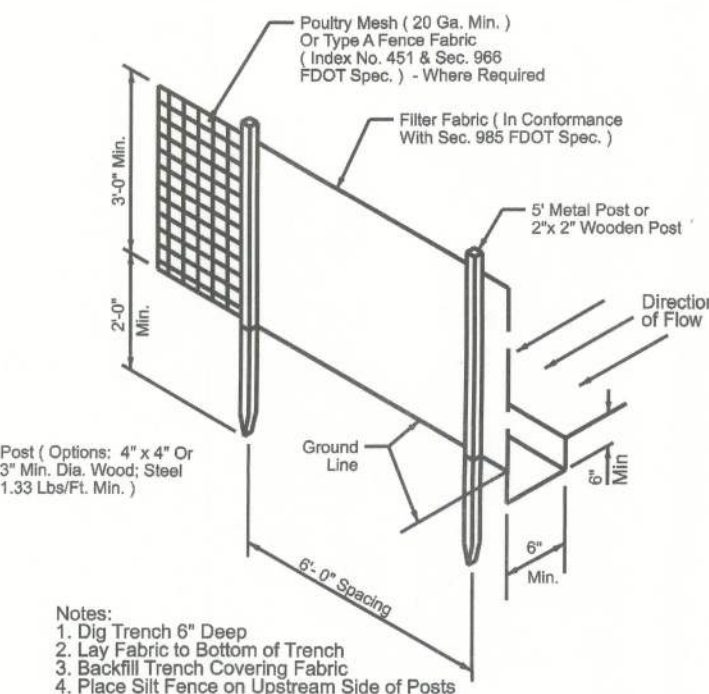
DETECTABLE WARNING SURFACE
NTS

EROSION CONTROL NOTES

- Contractor shall adhere to Columbia County, SRWMD and other governing authorities for erosion and sediment control regulations. Contractor shall use BMP's from "The Florida Development Manual".
- Sediment and erosion control facilities, storm drainage facilities and detention basins shall be installed prior to any other construction.
- Erosion control measures shall be inspected weekly and after each rainfall and replaced as necessary.
- Sediment and erosion control measures shall not be removed until all construction is complete and until a permanent ground cover has been established.
- All open drainage swales shall be grassed and riprap shall be placed as required to control erosion.
- Silt fences shall be located on site to prevent sediment and erosion from leaving right-of-way limits.
- Additional erosion control devices shall be used as required.
- Silt fence shall be cleaned or replaced when silt builds up to within one foot of top of silt fence.
- During construction and after construction is complete, all structures shall be cleaned of all debris and excess sediment.
- Contractor is responsible for the construction and maintenance of all erosion and sedimentation controls during proposed construction.
- A pad of rubber riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.
- All disturbed areas not sodded shall be seeded with a mixture of long-term vegetation and quick-growing short-term vegetation for the following conditions. For the months from September through March, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of winter rye. For the months of April through August, the mix shall consist of 70 pounds per acre of long-term seed and 20 pounds per acre of millet.
- Staked silt fences shall be placed near all box culvert extensions in accordance with FDOT Standard Index 102.
- Disturbed areas shall be stabilized with sodding and/or grassing and mulching. All side slopes steeper than 3:1 shall be adequately protected from erosion through the use of hay bales and/or sodding.
- All stabilization practices shall be initiated as soon as practicable in areas of the job where construction activities have temporarily or permanently stopped, but in no case shall the disturbed area be left unprotected for more than three (3) days.
- If the proposed erosion control plan does not work, the contractor should use the BMP's in the Florida Erosion and Sediment Control Inspector's manual to implement a plan that will work and meet actual field conditions.
- All waste generated on the project shall be disposed of by the contractor in areas provided by contractor.
- Loaded haul trucks shall be covered with tarps.
- Excess dirt shall be removed daily.
- Fertilizer shall be applied as specified in the plans and specifications.
- This project shall comply with all water quality standards. Permit required from SRWMD has been obtained.
- All pollution controls shall be maintained at all times.
- Straw bales shall be placed to remove sediment. Straw bales shall be replaced after three (3) months or when sediment reaches one-half (1/2) the height of the bales.
- Qualified personnel shall inspect the area used for storage of stockpiles, the silt fence and straw bales, the location where vehicles enter or exit the site, and the disturbed areas that have not been finally stabilized, at least once every seven (7) calendar days and within 24 hours of the end of a storm of 2 inches or greater.
- Sites that have been finally stabilized with sod or grassing shall be inspected at least once every week.

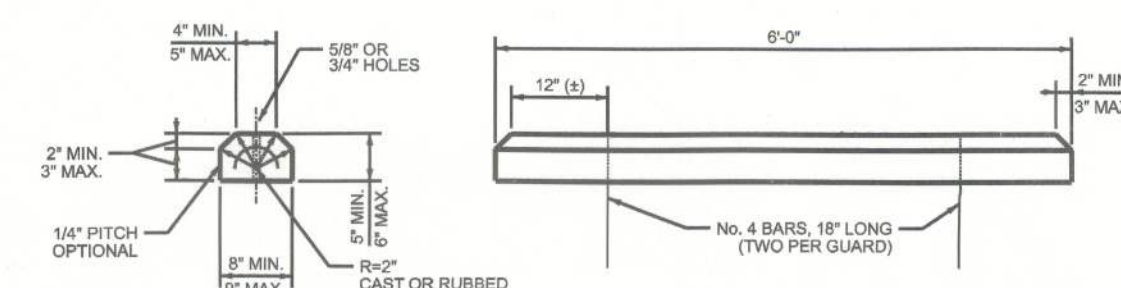


SECTION

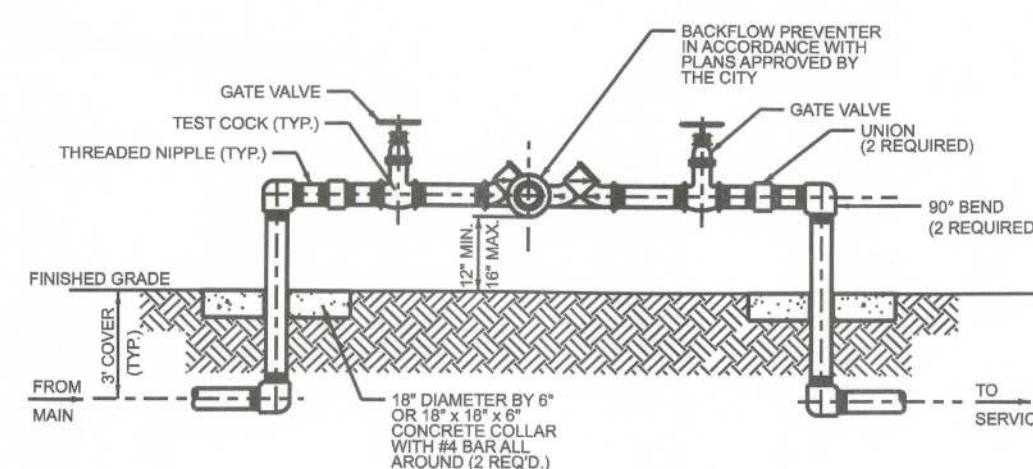


TYPE IV SILT FENCE
NTS

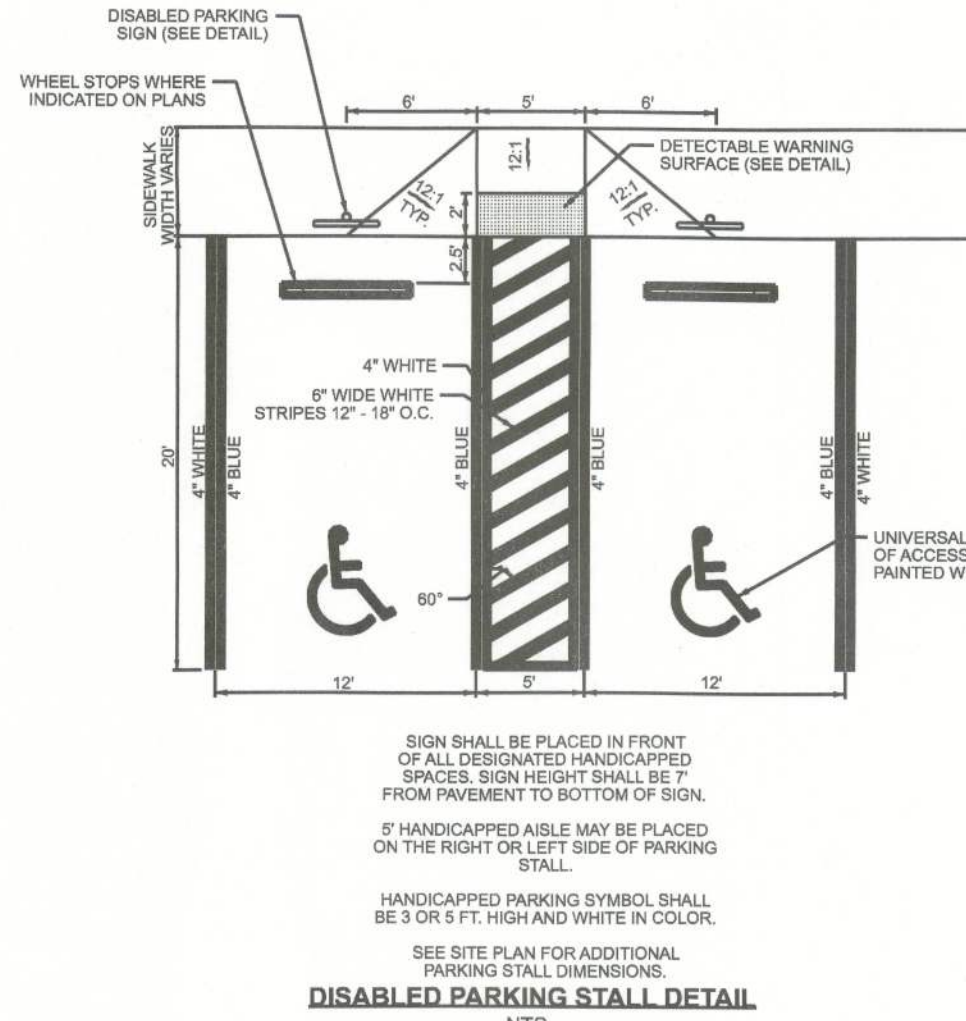
- AS COMPARED TO TYPE III SILT FENCE, TYPE IV FENCE HAS GREATER STRENGTH AND HEIGHT WHICH REDUCES THE POSSIBILITY OF SEDIMENT AND WATER FROM OVERTOPPING THE FENCE. AS A RESULT, ALSO USING TYPE IV FENCE IN AREAS WHERE THE DETAINED WATER WOULD BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.



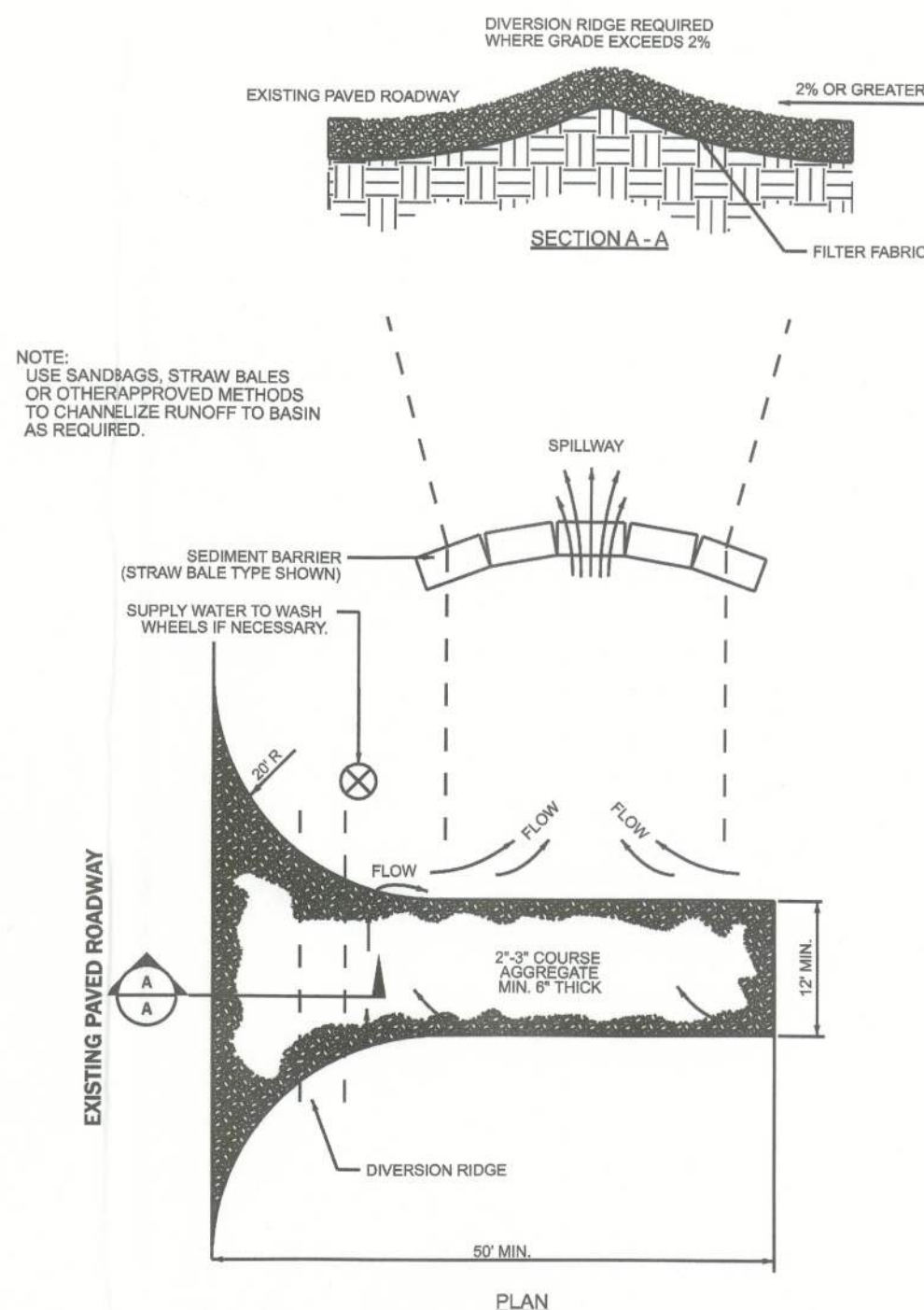
CONCRETE WHEEL STOP
NTS



BACKFLOW PREVENTER DETAIL
NTS

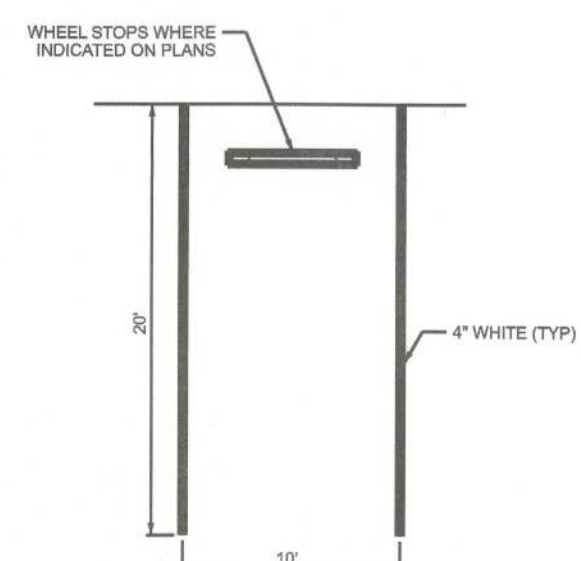


DISABLED PARKING STALL SIGN DETAIL
NTS

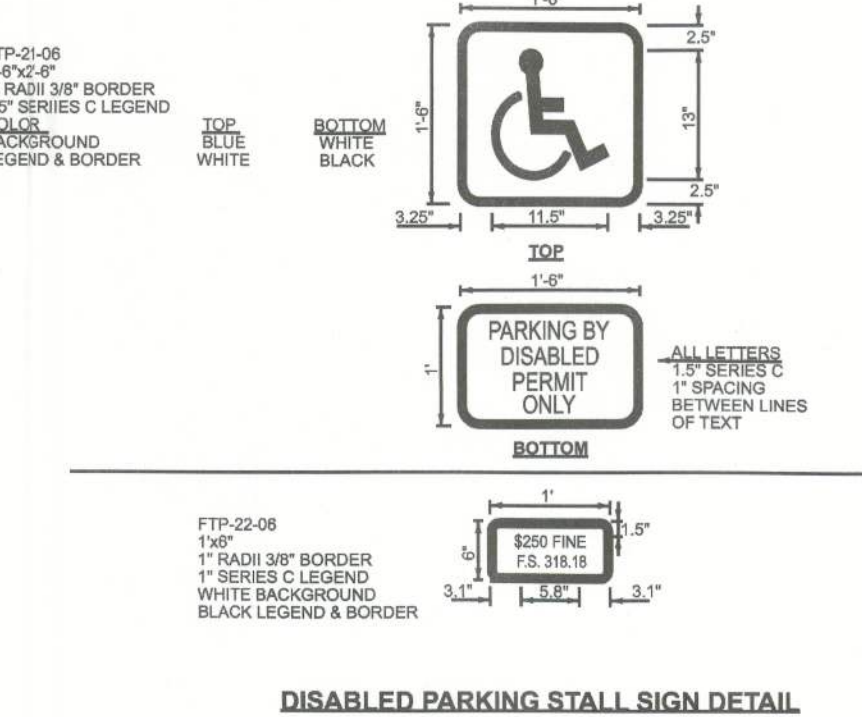


TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
NTS

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS ONTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



STANDARD PARKING STALL DETAIL
NTS



DISABLED PARKING STALL SIGN DETAIL
NTS

REVISION NOTES

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176 NW LAKE JEFFERY RD
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Fax: (386) 715-6828



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MISCELLANEOUS DETAILS