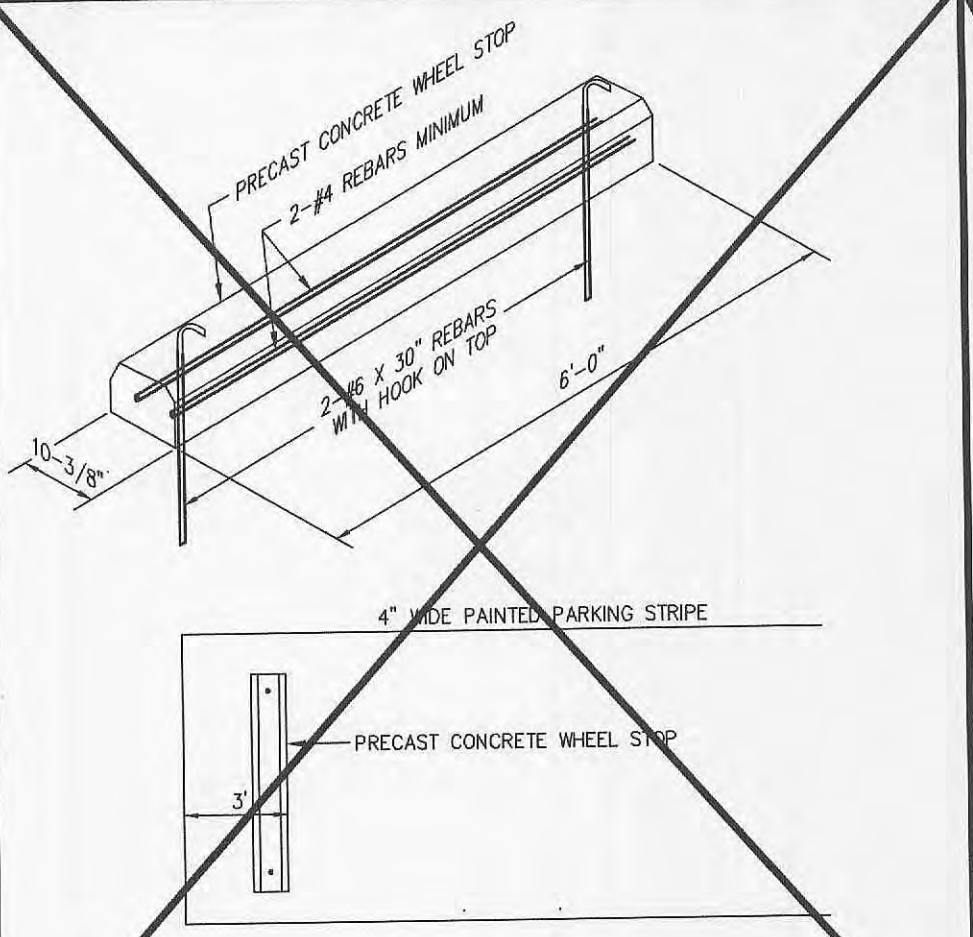
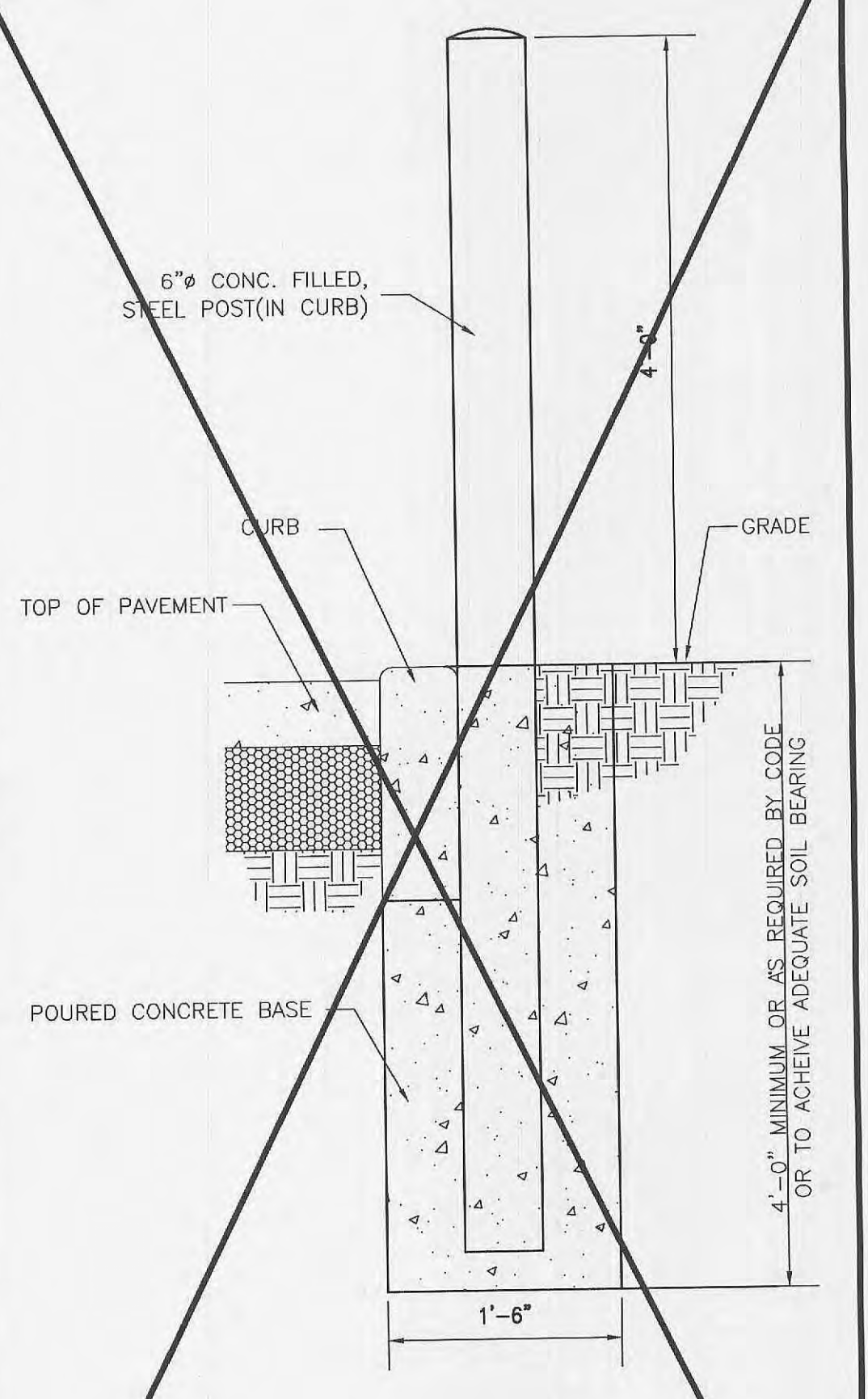


NOTE: G.C. IS TO INSTAL CLEANOUT AT ANY PIPING ANGLE CHANGES AND AT EVERY 50' IN PIPING RUNS GREATER THAN 100' IN LENGTH.

1 EXTERIOR CLEANOUT

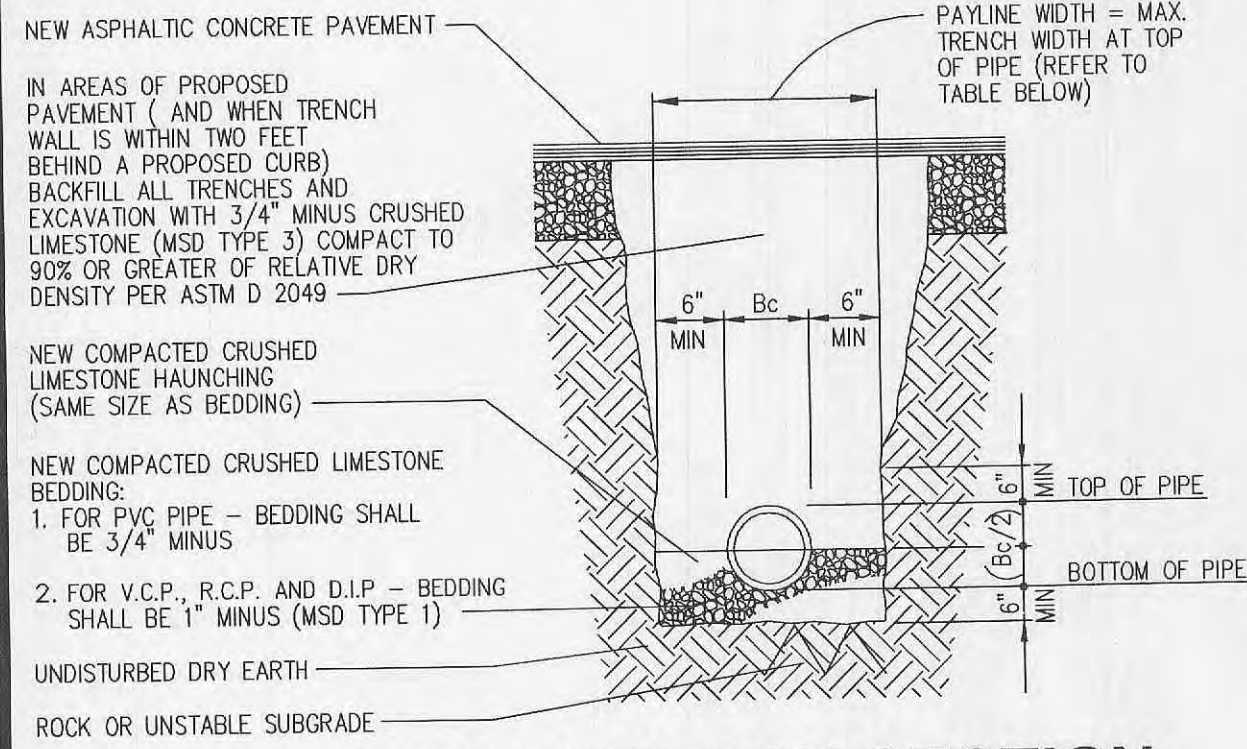


2 CONCRETE WHEEL STOP



**3 GUARD POST
NEW CONSTRUCTION
(ON REMODELS GUARD POST
LOCATIONS TO BE VERIFIED BY P.M.)**

ATTENTION SEWER CONTRACTOR:
FOR SEWER PIPE (STORM, SANITARY AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE MSD INSPECTOR UPON REQUEST.
FIELD SURVEYED VERIFICATION MUST BE MADE UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE ANY SEWER REACH HAVING AN AS-BUILT GRADE WHICH IS FLATTER THAN THE DESIGN GRADE BY MORE THAN 0.1%. SEWERS WITH GRADES GREATER THAN THE DESIGN SLOPE MAYBE LEFT IN PLACE, PROVIDED NO OTHER SEWER GRADE IS REDUCED BY THIS VARIANCE IN THE AS-BUILT GRADE.
MAD ALSO RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE ANY SEWER (AT ANY TIME PRIOR TO CONSTRUCTION APPROVAL) FOR WHICH THE AS-BUILT GRADE DOES NOT COMPLY WITH THE GRADE TOLERANCE STATED IN THE ABOVE PARAGRAPH.
THE SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE FIELD VERIFICATION OF THE SEWER GRADE, OR REMOVAL AND REPLACEMENT OF THE SEWER PIPE OR ASSOCIATED APPURTENANCES.
MAINTENANCE OF THE SEWERS DESIGNATED AS "PUBLIC" SHALL BE THE RESPONSIBILITY OF THE METROPOLITAN ST. LOUIS SEWER DISTRICT UPON DEDICATION OF THE SEWERS TO THE DISTRICT.



5 TYPICAL TRENCH SECTION

1. TRENCHES BEHIND CURBS SHALL BE BACKFILLED WITH ROCK TO WITHIN 12" OF SURFACE. REMAINING TRENCH SHALL BE FILLED w/6" CLEAN TOPSOIL ON 6" CLEAN EARTH BACKFILL.
2. BACKFILL IN TRENCHES WHICH ARE NOT IN AREAS OF (OR NOT WITHIN TWO FEET OF) PAVING SHALL CONSIST OF SELECTED JOB-EXCAVATED EARTH THOROUGHLY COMPACTED BY WATER SETTING OR WITH SUITABLE MECHANICAL TAMPERS.

INSIDE DIAMETER OF PIPE (INCHES)	PAYLINE WIDTH OF TRENCH (INCHES)	INSIDE DIAMETER OF PIPE (INCHES)	PAYLINE WIDTH OF TRENCH (INCHES)
4.6, 12	28		
15	32		
18	35		
21	39		
24	42		

*** FINAL DESIGN BY OTHERS ***

- GENERAL NOTES
1. STRIP ALL VEGETATION AND ORGANIC SOIL FROM ALL AREAS ON WHICH THE WALL OR FILL MATERIAL IS TO BE PLACED.
2. BENCH CUT ALL EXCAVATED SLOPES.
3. DO NOT OVER EXCAVATE, UNLESS DIRECTED BY SITE SOIL ENGINEER, TO REMOVE UNSUITABLE SOIL.
4. SITE SOIL ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN STANDARDS AND PARAMETERS.
5. BASE SHALL CONSIST OF COMPACTED SAND AND GRAVEL, MINIMUM 6" THICK.
6. CONTRACTOR MAY OPT FOR A CONCRETE FOOTING. CONCRETE FOOTING SHALL BE UNREINFORCED, DEPTH OF CONCRETE SHALL BE 2", AND COMPACTED SOIL BASE SHALL NOT BE LESS THAN 6" THICK.
7. MINIMUM EMBEDMENT OF WALL BELOW FINISH GRADE SHALL BE 12".
8. FOLLOW APPLICABLE PROVISIONS OF THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
9. DRAINAGE FILL 12" THICK SHALL BE INSTALLED BEHIND THE WALL TO WITHIN 18" OF THE TOP OF THE WALL.
10. WHERE DRAIN TILE IS USED PROVIDE OUTLETS @ MIN. 40 FT. CC.
11. BACKFILL AND COMPACT IN FRONT OF THE WALL AS WALL IS INSTALLED.
12. COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE SITE SOILS ENGINEER.
13. COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY.
14. ESTABLISH TURT AS SOON AS THE WALL IS COMPLETED.
15. IF CONDITIONS ARE DIFFERENT THAN THOSE STATED IN THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR MUST CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.
16. PROVIDE REINFORCEMENT FABRIC AS RECOMMENDED BY MANUFACTURES.

6 SEGMENTAL RETAINING WALL DETAIL

NO.	REV	DATE	DESCRIPTION	UNITS OF MEASURE
1				
2				
3				
4				
5				

STATE OF MISSOURI
ROBERT E. POLK, JR.
LICENSED PROFESSIONAL ENGINEER
NUMBER 20082
DATE 10-26-11

McDonald's
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1500 WEST MAIN STREET SALEM, ILLINOIS 62881

McDonald's CORPORATION SITE DETAILS

TITLE	CHECKED BY	DATE CHECKED	APPROVED BY	DATE APPROVED
SEWER STRUCTURES AND MISC SEWER DETAILS				
MATERIAL / DESCRIPTION				
DRAWN BY				
DATE DRAWN				
DRAWING ID				

D:\WORK\BUILDINGS\SD SHEETS
ISSUE REF
DATE ISSUED
PLOT: 1=1'

P:\McDonalds\2008\20081026102-CD18-combo.dwg 8/11/2008 11:08:18 AM CDT