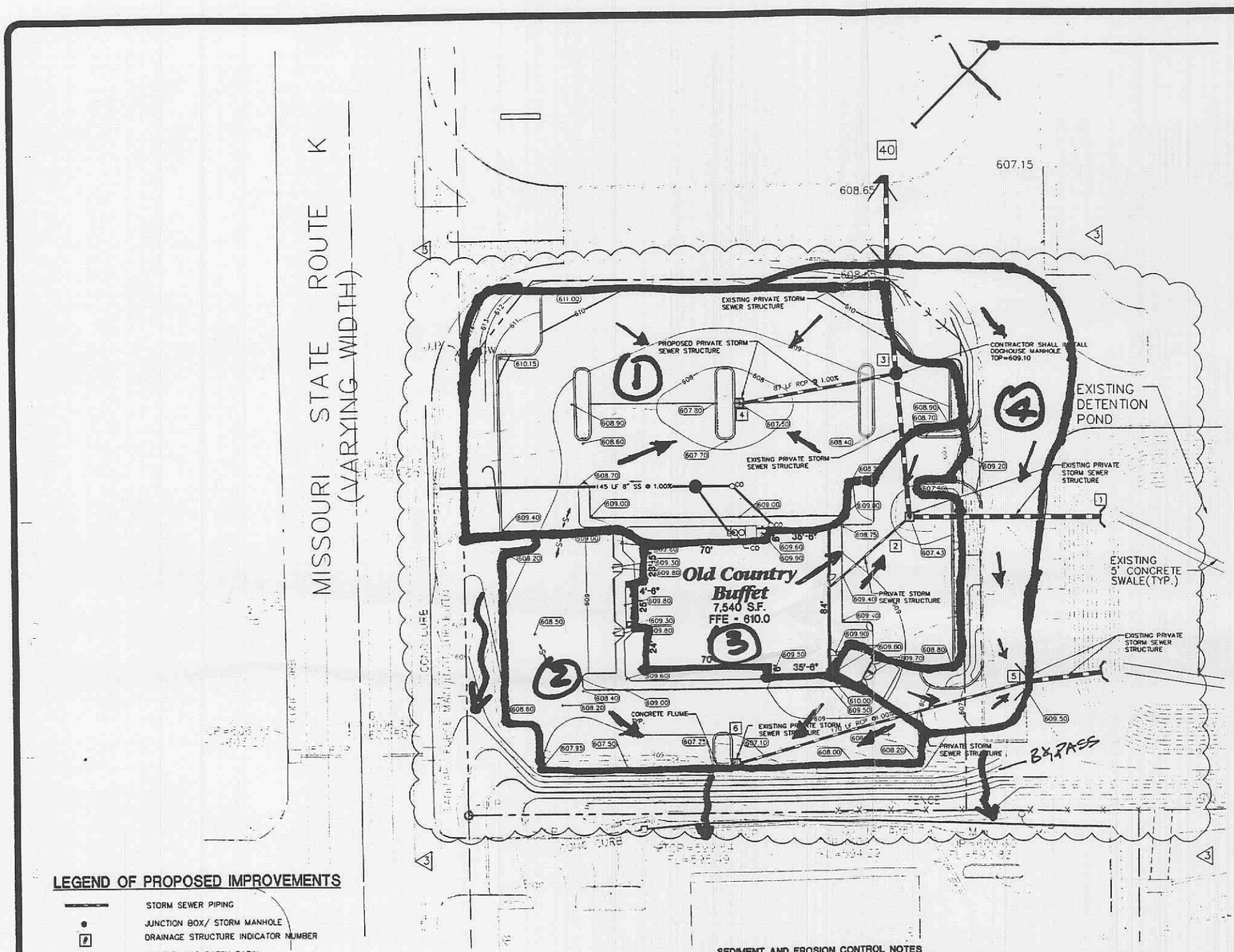

LEGEND OF PROPOSED IMPROVEMENTS

- STORM SEWER PIPING
- JUNCTION BOX/ STORM MANHOLE
- DRAINAGE STRUCTURE INDICATOR NUMBER
- DOUBLE WING CATCH BASIN
- SINGLE WING CATCH BASIN
- DROP INLET/ AREA DRAIN
- SLOPE ARROW
- CONCRETE FLUME
- FLARED END SECTION
- RIP-RAP APRON/OUTLET PROTECTION
- PRECAST HEADWALL STRUCTURE
- GRATE INLET WITH HOOD
- AREA DRAIN/WEIR INLET

DRAINAGE SCHEDULE

STRUCTURE NUMBER	STRUCTURE TYPE	TOP CASTING	THROAT ELEV.	INVERT IN	ELEVATION OUT	PIPE LENGTH (FEET)	PIPE TYPE	PERCENT SLOPE
1	HEADWALL	-	-	601.35	-	-	-	-
1-2	-	-	-	-	-	104	18"CPP	1.00%
2	EXIST DROPINLET	607.43	-	602.57	602.39	-	-	-
2-3	-	-	-	-	-	80	15"CPP	1.00%
3	MANHOLE	609.20	-	603.47	603.27	-	-	-
3-4	-	-	-	-	-	87	15"CPP	1.00%
4	DROP INLET	607.50	-	-	604.34	-	-	-
-	-	-	-	-	-	-	-	-
5	EXIST. CATCH BASIN	-	609.50	601.35	601.35	-	-	-
5-6	-	-	-	-	-	179	15" CPP	1.00%
6	DROPINLET	607.20	-	-	603.25	-	-	-
-	-	-	-	-	-	-	-	-

SITE GRADING NOTES

1. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. ALL CUT OR FILL SLOPES SHALL BE 2.5:1 OR FLATTER UNLESS OTHERWISE NOTED. SLOPES STEEPER THAN 2.5:1 SHALL (AFTER TOPSOIL, SEEDING, AND MULCHING) BE COVERED WITH CURLEX BLANKETS BY AMERICAN EXCELSIOR COMPANY OR EQUAL.
4. ALL DISTURBED AREAS NOT OTHERWISE COVERED BY BUILDINGS OR PAVEMENT SHALL RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
5. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
6. STORM PIPE SHALL BE AS FOLLOWS:
   ALL STORM SEWER PIPE SHALL HAVE WATER-TIGHT GASKETED JOINTS AND MEET OR EXCEED THE MoDOT AND ASTM D-2321 SPECIFICATIONS.
   RCP: CLASS III PER ASTM C-76 (UNLESS NOTED OTHERWISE)
   CPP: CORRUGATED POLYETHYLENE PIPE, SMOOTH INTERIOR, WITH EXTERIOR CORRUGATIONS. USE SILT TIGHT COUPLINGS AT ALL JOINTS. AASHTO LATEST EDITION
   M252 CORRUGATED POLYETHYLENE DRAINAGE TUBING
7. ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 P.S.I.
8. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
9. THE OUTLET STRUCTURE SHALL BE CONSTRUCTED ACCORDING TO ASTM C478 STANDARD SPECIFICATIONS.
10. ALL FILL MATERIAL PLACED UNDER PROPOSED STORM AND SANITARY SEWERS AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99.
11. ALL FILL MATERIAL PLACED IN PROPOSED ROADS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.

GRADING PLAN APPROVAL NOTES

1. ACCORDING TO THE ALTA SURVEY PREPARED BY VOLTZ Inc. ON 09/24/98 THIS SITE IS LOCATED OUTSIDE OF THE 100 YEAR FLOOD PLAIN AS INDICATED IN THE FLOOD INSURANCE RATE MAP (FIRM), OF ST. CHARLES COUNTY, MISSOURI, AND INCORPORATED AREAS, PANEL 239 OF 525, MAP NUMBER 29183 C0239 E WITH EFFECTIVE DATE OF AUGUST 2, 1996.
2. D.G. PURDY & ASSOCIATES, INC. COMPLETED A SUPPLEMENTAL PHASE ONE ENVIRONMENTAL ASSESSMENT AND DID NOT IDENTIFY ANY WETLANDS INDICATORS ON THE SITE.

SEDIMENT AND EROSION CONTROL NOTES

1. CONTRACTOR IS TO ADHERE TO CITY OF O'FALLON, AND ANY OTHER GOVERNING AUTHORITIES FOR EROSION AND SEDIMENT CONTROL REGULATIONS.
2. SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
3. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPLACE AS NECESSARY.
4. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
5. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
6. ALL SLOPES 2.5:1 SHALL BE SEEDED WITH CROWN VETCH. SEE GRADING PLAN FOR LIMITS OF SLOPES. ALL REMAINING EXCAVATED AREAS SHALL BE SEEDED. PLANS SHOW A 20' BUFFER OF SEEDING OFF PROPERTY LINE FOR DISTURBED AREAS DUE TO GRADING.
7. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROPERTY LIMITS.
8. SOILS ENGINEER SHALL CERTIFY THAT ALL FILL AREAS ARE TO A MINIMUM COMPACTION PER SPECIFICATION AS NOTED ON PLANS.
9. ADDITIONAL EROSION CONTROL DEVICES SHALL BE USED AS REQUIRED.
10. SILT FENCE SHALL BE CLEANED OR REPLACED WHEN SILT BUILDS UP TO WITHIN ONE FOOT OF TOP OF SILT FENCE.
11. MAXIMUM EMBANKMENT SLOPES TO BE AS FOLLOWS:
    CUT AREAS - 2.5:1, FILL AREAS - 2.5:1.
    2.5 : 1 SLOPES IN DETENTION AREA
12. DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, DETENTION PONDS AND DETENTION POND OUTLET STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT. BOTTOM OF PONDS SHALL BE BROUGHT TO ELEVATION AND SHAPE AS SHOWN ON SITE GRADING PLAN.
13. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.
14. ALL SURFACES MUST BE STABLE AND NON-EROSIVE WITHIN THIRTY (30) WORKING DAYS AFTER ESTABLISHMENT OF THE SUB-GRADES.
15. TOPSOIL SHALL BE REDISTRIBUTED, SEED & MULCH APPLIED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
16. SEEDS FOR GRASSED AREAS SHALL BE TALL FESCUE GRASS AT 10 LBS/1000 SF WITH THE FOLLOWING:

    TEMPORARY

    FERTILIZER - (10/10/10) 300-400 LBS./AC.
    MULCH (WHEAT STRAW) 2-1/2 T./AC.

    PERMANENT

    FERTILIZER - (6/12/12) 300-400 LBS./AC.
    MULCH (WHEAT STRAW) 2-1/2 T./AC.

17. SEEDS FOR ALL SLOPED AREAS 2:1 AND GREATER SHALL BE OVERSEEDED WITH FESCUE, RYE MIXTURE AT 10 LBS/1000 SF INCLUDING CROWN VETCH 2 LBS/1000 SF OF AREA (TYPICAL).
18. CONTRACTOR RESPONSIBLE FOR ADHERING TO ALL STIPULATIONS OF NPDES PERMIT NO. MO-R103183 ISSUED SEPTEMBER 15,1998, AS PART OF THIS CONTRACT.
19. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY THE ON SITE INSPECTOR.

GRADING/EROSION CONTROL PLAN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

MAGNETIC

REVISIONS	BY
1 AS PER CITY COMMENTS 05/26/99	KOG
2 AS PER NEW SURVEY 06/18/99	KOG
3 AS PER CITY COMMENTS 07/20/99	KOG

WOLVERTON & ASSOCIATES, INC.
5600 OAKBROOK PARKWAY / SUITE 100 / NORCROSS, GEORGIA 30093
770 447-8899 PHONE / 770 447-8070 FAX

PROPOSED OLD COUNTRY BUFFET
O'FALLON, ST. CHARLES COUNTY, MISSOURI
OLD COUNTRY BUFFET

DRAWN	RD
CHECKED	JCW
DATE	05/06/99
SCALE	1"=30'
JOB No.	99-168
SHEET	C-2
OF	SHEETS

99168V3.DWG