



CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE FOLLOWING MINIMUM STANDARDS:

MS-1: THROUGH TS / PS LABELS ARE SHOWN GENERALLY ON THE PLANS, THE CONTRACTOR SHALL SEED ALL AREAS NOT INDICATED TO BE OTHERWISE STABILIZED WITH PERMANENT SEED MIXTURE WITHIN 7 DAYS OF REACHING FINAL GRADE OR WITH TEMPORARY SEED MIXTURE ANY AREA YET TO REACH FINAL GRADE BUT THAT IS NOT PROPOSED TO BE ACTIVELY INVOLVED IN THE WORK WITHIN 30 DAYS. THESE SEED MIXTURES AND APPLICATION SPECIFICATIONS ARE SHOWN HEREIN. THE CONTRACTOR SHALL HONOR THE CLEARING AND GRADING LIMITS SHOWN ON THE PLAN.

MS-2: THE CONTRACTOR SHALL STABILIZE WITH TS AND PROTECT FROM EROSION, WITH ANY APPLICABLE METHOD, ALL STOCKPILES AND ANY ON-SITE OR OFF-SITE BORROW OR SPOIL AREAS, AS APPLICABLE. APPROVAL OF THIS PLAN DOES NOT COVER OFF-SITE BORROW OR SPOIL AREAS. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

MS-3: WHERE TS/PS ARE NOT APPLICABLE PROVIDE OTHER MEANS OF STABILIZATION (OPS, ETC.) WITHIN 7 DAYS OF REACHING FINAL GRADE OR WITHIN 30 DAYS WHERE THE AREA IS YET TO REACH FINAL GRADE BUT IS NOT PROPOSED TO BE ACTIVELY INVOLVED IN THE WORK.

MS-4: ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED IN ADVANCE OF THE WORK THEY ARE INTENDED TO PROTECT.

MS-5: EARTHEN CONTROLS AND STRUCTURES SHALL BE STABILIZED IMMEDIATELY UPON INSTALLATION.

MS-6: WHERE A SEDIMENT TRAP (<3 ACRES OF DRAINAGE) OR SEDIMENT BASIN (>3 ACRES OF DRAINAGE) ARE INDICATED CALCULATIONS SHOWN ARE BASED ON OUTLINED DRAINAGE AREAS. CONTRACTOR SHALL HONOR INDICATED DRAINAGE DIVIDES AND CONFORM TO VOLUMES, DETAILS, ETC. PROVIDED ON PLANS.

MS-7: CARE HAS BEEN TAKEN IN DESIGN TO MINIMIZE DRAINAGE OVER SLOPES AND PROVIDE A SUITABLE PROTECTIVE STABILIZATION METHOD. CONTRACTOR SHALL PROTECT SLOPE AREAS DURING AND AFTER CONSTRUCTION FROM CONCENTRATED RUNOFF AND THE EROSION EFFECTS OF WIND AND RAIN. STABILIZE AS SOON AS PRACTICAL TO MINIMIZE EROSION.

MS-8: WHERE CONCENTRATED RUNOFF HAS BEEN ROUTED DOWN SLOPES CARE HAS BEEN TAKEN TO DESIGN AN ADEQUATE CHANNEL OR DRAIN. CONTRACTOR SHALL INSTALL THESE MEASURES ALONG WITH THEIR STABILIZATION AS SOON AS PRACTICAL TO PROTECT SLOPE. NOT APPLICABLE, NO CHANNELS OR DRAINS ARE INTENDED OVER SLOPES.

MS-9: NOT APPLICABLE; SEEPAGE THROUGH SLOPES IS NOT ANTICIPATED TO BE ENCOUNTERED ON THIS PROJECT.

MS-10: INLET OR CULVERT INLET PROTECTION IS PROPOSED FOR THE INLETS OF ALL STORM SEWERS OR CULVERTS ON-SITE. RLD SHALL INSURE PROPER INSTALLATION AND ASSURE ADEQUATE SIZING BASED ON DRAINAGE AREA OF EACH INLET.

MS-11: RLD SHALL VERIFY THAT ADEQUATE CHANNEL, LININGS AND PROPER OUTLET PROTECTION IS IN PLACE PRIOR TO OPERATION OF STORM SEWER SYSTEM.

MS-12: WHEN WORKING IN AND AROUND A LIVE WATERCOURSE, THE CONTRACTOR SHALL TAKE GREAT CARE TO MINIMIZE IMPACT ON THE STREAM. ASSURE THAT PROPER PERMITS FROM DCR / USACE ARE IN HAND PRIOR TO COMMENCING SUCH WORK. NOT APPLICABLE -- NO STREAM IMPACTS ARE PROPOSED WITH THIS DEVELOPMENT.

MS-13: WHERE MORE THAN 2 TRIPS IN 6 MONTHS ARE EXPECTED ACROSS A LIVE WATERCOURSE OBTAIN THE NECESSARY PERMIT AND INSTALL A TEMPORARY STREAM CROSSING. NOT APPLICABLE -- NO JURISDICTIONAL STREAM CROSSINGS ARE PROPOSED WITH THIS DEVELOPMENT.

MS-14: OTHER FEDERAL, STATE, AND LOCAL REGULATIONS MUST BE MET WHEN WORKING IN LIVE WATERCOURSES. NOT APPLICABLE -- NO WORK IS PROPOSED WITHIN JURISDICTIONAL WATERCOURSES.

MS-15: THE BED AND BANKS OF DISTURBED WATERCOURSES MUST BE STABILIZED IMMEDIATELY. NOT APPLICABLE -- NO WORK IN JURISDICTIONAL WATERCOURSES IS PROPOSED.

MS-16: REGARDING UTILITY INSTALLATIONS, NO MORE THAN 500 LF OF TRENCH MAY BE OPEN AT A GIVEN TIME. EXCAVATED MATERIAL SHALL BE PLACED ON UPHILL SIDE OF TRENCH. EFFLUENT OF ANY DRAINAGE SYSTEM USED MUST BE FILTERED. TRENCHES SHALL BE PROPER BACKFILLED AND COMPACTED PER DETAIL AND SPECS. COMPLETED INSTALLATION SHALL BE RE-STABILIZED IMMEDIATELY.

MS-17: THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND / OR OTHER EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE STREETS ARE IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.

MS-18: SEE MAINTENANCE UNDER ESC NARRATIVE FOR CE, PS, SF, AND TS/PS AT A MINIMUM.

MS-19: RESPONSIBLE LAND DISTURBER SHALL PAY PARTICULAR ATTENTION TO OFF-SITE AREAS CONTRIBUTING RUNOFF TO THE SITE. OFF-SITE LOCATIONS RECEIVING RUNOFF FROM THIS PROJECT, AND PROPER OPERATION OF STORMWATER MANAGEMENT PRACTICES ON-SITE. ALL DITCHES, SWALES, AND NATURAL WATERCOURSES DOWNSTREAM OF THIS PROJECT SHALL BE FIELD INSPECTED DURING AND AFTER CONSTRUCTION BY THE RLD TO ENSURE COMPLIANCE WITH DCR'S MS-19. IF EROSION OR SLOUR IS OCCURRING THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL CORRECTIVE MEASURES.

CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE FOLLOWING MINIMUM STANDARDS:

GENERAL EROSION AND SEDIMENT CONTROL NOTES, ROCKYDALE, VIRGINIA

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE ON-SITE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND NARRATIVE, AS WELL AS A COPY OF THE LAND DISTURBING PERMIT, SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. THE EROSION AND SEDIMENT CONTROL ADMINISTRATOR WILL DELIVER THESE MATERIALS AT THE ON-SITE PRECONSTRUCTION CONFERENCE.

ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO BE DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING THE LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8: DURING DRAINAGE OPERATION, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY. AN INSPECTION REPORT MUST BE FILED WITH THE ROCKYDALE CITY EROSION AND SEDIMENT CONTROL ADMINISTRATOR ONCE EVERY TWO WEEKS BEGINNING WITH COMMENCEMENT OF THE LAND DISTURBING ACTIVITY AND WITHIN 48 HOURS OF ANY RUNOFF-PRODUCING RAINFALL EVENT. FAILURE TO SUBMIT A REPORT WILL BE GROUNDS FOR IMMEDIATE REVOCATION OF THE LAND DISTURBING PERMIT. REPORTS MUST BE POSTMARKED WITHIN 24 HOURS OF THE DEADLINE. A STANDARD INSPECTION REPORT FORM WILL BE SUPPLIED, WHICH SHOULD BE COMPLETED AS NECESSARY. THIS PROVISION IN NO WAY WAIVES THE RIGHT OF ROCKYDALE CITY PERSONNEL TO CONDUCT SITE INSPECTIONS, NOR DOES IT DENY THE RIGHT OF THE PERMITTEE (S) TO ACCOMPANY THE INSPECTOR (S).

CONSTRUCTION SEQUENCE

1. THE CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER (RLD) SHALL BE NAMED AND THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM DCR. COPIES OF ALL THIS INFORMATION SHALL BE PROVIDED TO ROCKYDALE CITY.
2. THE CONSTRUCTION PROCESS SHOULD BE SEQUENCED AS MUCH AS POSSIBLE SO THAT EACH AREA IS SEEDING AND STABILIZED PRIOR TO BEGINNING GRADING OPERATIONS IN ANOTHER AREA.
3. INSTALL THE CONSTRUCTION ENTRANCE AS THE FIRST STEP IN THE CONSTRUCTION PROCESS.
4. EXTEND STORM DRAIN FROM EXISTING HEADWALL TO PROPOSED STRUCTURE "A". INSTALL INLET PROTECTION. IF STORM DRAIN CONSTRUCTION CAN NOT BEGIN IMMEDIATELY, INSTALL CULVERT INLET PROTECTION AT EXISTING HEADWALL.
5. CONSTRUCT DITCH SECTION FROM FROM LEFT OF BASELINE AT APPROXIMATELY STATION 50+75 TO STORM STRUCTURE "A". INSTALL ROCK CHECK DAMS ALONG WITH DITCH CONSTRUCTION AS SHOWN ON PLANS.
6. INSTALL SILT FENCE AT NORTH END OF SITE NEAR BASELINE STATIONING 44+25 TO 45+25.
7. APPLY SURFACE ROUGHENING AND TEMPORARY SEEDING PERMANENT SEEDING IF SEASON AND CONDITIONS ARE SUITABLE TO FINISHED SECTIONS OF CUT FACE AS EARTHWORK CONTINUES DOWN SLOPE. UPON COMPLETION OF TOTAL SLOPE CUT, INSTALL SILT FENCE AT BASE OF SLOPE AS SHOWN ON PLANS.
8. ESTABLISH STABILIZED SURFACE WITH PERMANENT VEGETATION AND/OR PAVEMENT ON ALL DISTURBED AREAS.
9. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THOSE AFFECTED AREAS HAVE BEEN BROUGHT TO FINAL GRADE AND AFTER PERMANENT STABILIZATION HAS BEEN ESTABLISHED.

EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF MODIFICATIONS TO AN EXISTING ENTRANCE TO ROUTE 220 AT OLD DRAPER ROAD AND THE CONSTRUCTION OF AN ACCELERATION LANE NORTH ALONG ROUTE 220 FROM THE SAID ENTRANCE. THE EXISTING DRAINAGE WILL BE SHIFTED AWAY FROM ROUTE 220 TO ALLOW FOR THE ADDITION OF AN ACCELERATION LANE. TOTAL DISTURBED AREA WITH THIS PROJECT IS APPROXIMATELY 1.70 ACRES.

EXISTING SITE CONDITIONS

THE AREA TO BE DISTURBED IS ALONG THE SIDE OF ROUTE 220 AS IT TRAVERSES A CUT SECTION FOR THE HIGHWAY. THE EXISTING CUT SECTION IS SLOPED AT A RATIO OF APPROXIMATELY 1.8:1. THE AREA OUTSIDE OF THE HIGHWAY CUT IS PARTIALLY CLEARED WITH SLOPES OF 5% TO 20%.

ADJACENT AREAS

THIS PROPOSED WORK AREA IS BORDERED BY ROUTE 220 TO THE WEST AND QUARRY PROPERTY TO THE EAST. THE NORTHERN END OF THE PROJECT IS THE ENTRANCE TO HUNTING HILLS SUITES. THE SOUTHERN END OF THE PROJECT IS THE QUARRY ENTRANCE.

OFFSITE AREAS

THE LOCATION OF ALL OFFSITE FILL OR BORROW AREAS ASSOCIATED WITH THIS CONSTRUCTION PROJECT WILL BE INSIDE QUARRY PROPERTY. THESE AREAS ARE COVERED BY AN EXISTING PERMIT.

SOILS

SOILS INFORMATION IS BASED ON AN INSPECTION OF THE USDA SOIL SURVEY OF ROCKYDALE CITY AND HAS NOT BEEN FIELD VERIFIED. THE UNDERLYING ON-SITE SOIL IS CATEGORIZED AS MAP UNIT 150. THIS SOIL TYPE IS LABELED AS EDEGEMONT CHANNERY SANDY LOAM, 15 TO 35 PERCENT SLOPES. SOME OF THE SOIL CHARACTERISTICS FOR THIS MAP UNIT IS LISTED BELOW:

EDEGEMONT CHANNERY SANDY LOAM, 15 TO 35 PERCENT SLOPES (MAP SYMBOL 150)
THE TYPICAL PROFILE FOR EDEGEMONT CHANNERY SOILS IS AS FOLLOWS: 0 TO 2 INCHES - VERY DARK GRAY CHANNERY SANDY LOAM, 2 TO 8 INCHES - PALE BROWN CHANNERY SANDY LOAM, 8 TO 18 INCHES - LIGHT YELLOWISH BROWN LOAM, 18 TO 27 INCHES - BROWNISH YELLOW AND REDDISH YELLOW LOAM, AND 27 TO 38 INCHES - STRONG BROWN CLAY LOAM THAT HAS BROWNISH YELLOW AND YELLOWISH RED MOTTLING. THE SOIL HAS HIGH EROSION POTENTIAL, MODERATE PERMEABILITY, AND LOW SHRINK SWELL POTENTIAL.

CRITICAL AREAS

THE CONTRACTOR SHALL TAKE SPECIAL CARE TO ESTABLISH PERMANENT STABILIZATION ON ALL STEEP SLOPES. THE CONTRACTOR SHOULD TAKE SPECIAL CARE TO INSURE THAT MUD AND SOILS ARE NOT TRACKED OR OTHERWISE TRANSPORTED ON/TO ROUTE 220.

STORMWATER MANAGEMENT

THIS PROJECT QUALIFIES AS EXEMPT FROM STORMWATER MANAGEMENT REGULATIONS.

MAINTENANCE

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. A LOG OF DATES AND INSPECTIONS SHALL BE KEPT. ANY DEFICIENCIES THAT ARE FOUND SHALL BE CORRECTED IMMEDIATELY. PARTICULAR:

1. THE SEDIMENT TRAPS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. CLEAN OUT AS NECESSARY TO MAINTAIN DESIGN VOLUMES.
2. INLET PROTECTION WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED OR REPLACED.
3. ROCK CHECK DAMS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED OR REPLACED.
4. THE SILT FENCE WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT BUILDUP REACHES THE MIDWAY POINT OF THE SILT FENCE.
5. THE CONSTRUCTION ENTRANCE WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED, OR REPLACED.
6. DIVERSIONS AND STORMWATER CONVEYANCE CHANNELS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP, BREACHES, AND DUNE INTEGRITY. IF DEFICIENCIES IN THE DIVERSIONS OR CHANNELS ARE FOUND, THEY SHALL BE REPAIRED AND REESTABLISHED IMMEDIATELY.
7. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDING AS REQUIRED TO ACHIEVE A GOOD STAND OF GRASS.

EROSION AND SEDIMENT CONTROL MEASURES

CONSTRUCTION ENTRANCE (3.02) - A STONE CONSTRUCTION ENTRANCE WILL BE INSTALLED TO MINIMIZE THE AMOUNT OF MUD TRANSPORTED INTO EXISTING ROADS.

CONSTRUCTION ROAD STABILIZATION (3.03) - CONSTRUCTION ROAD STABILIZATION WILL BE TO MINIMIZE EROSION WITHIN THE TEMPORARY CONSTRUCTION ROAD.

SILT FENCE (3.05) - SILT FENCE WILL BE INSTALLED AT THE LOWER ENDS OF THE PROJECT SITE TO INTERCEPT SEDIMENT LADEN RUN-OFF PRIOR TO EXITING THE SITE.

INLET PROTECTION (3.07) - INLET PROTECTION WILL BE INSTALLED AT EACH STORM DRAIN INLET TO MINIMIZE THE AMOUNT OF SEDIMENT LADEN RUNOFF FROM ENTERING THE STORM DRAIN SYSTEM.

CULVERT INLET PROTECTION (3.08) - CULVERT INLET PROTECTION WILL BE INSTALLED AT THE INLET END OF EACH CULVERT TO MINIMIZE THE AMOUNT OF SEDIMENT LADEN RUNOFF ENTERING THE CULVERT AND STORM DRAIN SYSTEM.

ROCK CHECK DAMS (3.20) - ROCK CHECK DAMS SHALL BE INSTALLED WITHIN DITCHES AS SHOWN ON THE PLAN TO REDUCE THE VELOCITY OF RUNOFF AND THEREBY REDUCING THE EROSION WITHIN THE DITCH.

SURFACE ROUGHENING (3.28) - SURFACE ROUGHENING SHALL BE PERFORMED ON ALL SLOPES 3:1 OR STEEPER AS SHOWN ON THE PLANS.

TEMPORARY SEEDING (3.31) - TEMPORARY SEEDING SHALL BE APPLIED TO ALL AREAS TO BE ROUGH GRADED, BUT NOT FINISHED GRADED DURING THE INITIAL PHASE OF CONSTRUCTION. TEMPORARY SEEDING SHALL BE APPLIED TO ALL AREAS AT FINAL GRADE THAT ARE NOT YET SUITABLE FOR PERMANENT SEEDING. TEMPORARY SEEDING SHALL BE FAST GERMINATING, TEMPORARY VEGETATION AND INSTALLED IMMEDIATELY FOLLOWING GRADING, OR INSTALLATION IF A TEMPORARY MEASURE. SEE ALSO MINIMUM STANDARDS.

PERMANENT SEEDING (3.32) - PERMANENT SEEDING SHALL BE INSTALLED ON ALL DISTURBED AREAS OF THE SITE NOT OTHERWISE STABILIZED.

MULCHING (3.35) - ALL DISTURBED AREAS SHALL BE MULCHED AFTER SEEDING. STRAW MULCH SHALL BE APPLIED AT A RATE OF TWO TONS PER ACRE AND ANCHORED WITH 750 LBS PER ACRE OF FIBER MULCH OVER THE SEEDING AREA.

THIS PLAN IS FOR EROSION AND
SEDIMENT CONTROL PURPOSES ONLY

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EROSION AND
SEDIMENT CONTROL
PLAN

ACCELERATION LANE AT
ROCKYDALE QUARRIES

PREPARED FOR
ROCKYDALE QUARRIES CORP.
SITUATED AT FRANKLIN ROAD & DRAPER ROAD, S.W.
THE CITY OF ROCKYDALE, VIRGINIA

NO.	DATE	DESCRIPTION
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5		

DATE: September 19, 2008
SCALE: 1" = 30'
COMMISSION NO.: 06-031
SHEET 5 OF 6

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