

EROSION AND SILT CONTROL

GENERAL NOTES

- THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO CONTROL EROSION AND SILTATION INCLUDING, BUT NOT LIMITED TO, STAKED STRAW BALES AND/OR SILTATION FABRIC FENCES (POSSIBLE METHODS OF CONTROL ARE DETAILED IN THE PLAN). EROSION CONTROL SHALL COMMENCE WITH GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR THE CITY OF DARDENNE PRAIRIE. THE CONTRACTOR'S RESPONSIBILITIES INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE OWNER AND/OR THE CITY OF DARDENNE PRAIRIE MAY, AT THEIR OPTION, DIRECT THE CONTRACTOR IN HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILTS OR MUD ONTO NEW OR EXISTING PAVEMENT OR IN NEW OR EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE OWNER AND/OR THE CITY OF DARDENNE PRAIRIE.
- INSTALLATION OF ALL PERIMETER SEDIMENT CONTROL SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN (7) DAYS OF GRUBBING THE SITE.
- INSPECTION OF SILTATION CONTROL DEVICES SHALL TAKE PLACE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF ANY ONE-HALF (1/2) INCH PER 24 HOUR RAIN EVENT.
- ANY SILTATION CONTROL IN NEED OF REPAIR SHALL OCCUR IMMEDIATELY.
- ALL SLOPES OR DRAINAGE CHANNELS, ONCE CONSTRUCTED TO FINAL GRADE, SHALL BE SEEDED AND MULCHED PER SPECIFICATIONS WITHIN SEVEN (7) DAYS.
- SILT FENCES SHALL BE INSTALLED IMMEDIATELY AROUND EACH STORM SEWER STRUCTURE ONCE FINAL CONSTRUCTION OF EACH INDIVIDUAL STRUCTURE IS COMPLETE.
- ALL SILTATION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

SCHEDULE IMPLEMENTATION

- PERIMETER SILTATION CONTROL AND CONSTRUCTION ENTRANCES TO BE INSTALLED.
- BEGIN PLACING AGGREGATE BASE IN PROPOSED PAVED AREAS ONCE AREA HAS REACHED FINAL GRADE TO PREVENT EROSION.
- PLACE SILT FENCE AROUND EACH STORM SEWER STRUCTURE AS IT IS COMPLETED.
- IMMEDIATELY SEED AREAS THAT ARE TO BE PERMANENTLY SEEDED UPON REACHING FINAL GRADE.

SILTATION CONTROL DEVICE MAINTENANCE

- SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

SILT FENCE SPECIFICATIONS

- SILT FENCE TO BE WOVEN GEOTEXTILE FABRIC MIRAFIX 100X OR EQUAL.
- FABRIC TO BE SUPPORTED BY METAL TEE POST WITH SPADE BASE SPACED ON 5' CENTERS WITH W6 X W6 / 10 X 10 GAGE WELDED WIRE FENCE.
- FABRIC SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED A MINIMUM OF 4 INCHES DEEP FOR THE LENGTH OF THE FENCE.
- THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE FENCE.
- FENCE HEIGHT SHALL BE A MINIMUM OF 4 FEET IN HEIGHT, WITH THE FABRIC INSTALLED ON THE UPSTREAM SIDE.
- SILT FENCES SHALL BE USED ONLY ON SHEET FLOW CONDITIONS (NOT CONCENTRATED FLOW CONDITIONS).
- SILT FENCES SHALL BE INSTALLED AROUND ALL STORM SEWER STRUCTURES INFLOW AREAS.

VEGETATION ESTABLISHMENT FOR URBAN DEVELOPMENT SITES APPENDIX A

SEEDING RATES

PERMANENT:	
TALL FESCUE	30 LBS./AC.
SMOOTH BROME	20 LBS./AC.
COMBINED -	
FESCUE	15 LBS./AC. AND
BROME	10 LBS./AC.

TEMPORARY:	
WHEAT OR RYE	150 LBS./AC. (3.5 LBS. PER 1,000 SQUARE FEET)
OATS	120 LBS./AC. (2.75 LBS. PER 1,000 SQUARE FEET)

SEEDING PERIODS:	
FESCUE OR BROME	MARCH 1 TO JUNE 1
WHEAT OR RYE	AUGUST 1 TO OCTOBER 1
OATS	MARCH 15 TO NOVEMBER 1
	MARCH 15 TO SEPTEMBER 15

MULCH RATES:	100 LBS. PER 1,000 SQUARE FEET (4,356 LBS. PER ACRE)
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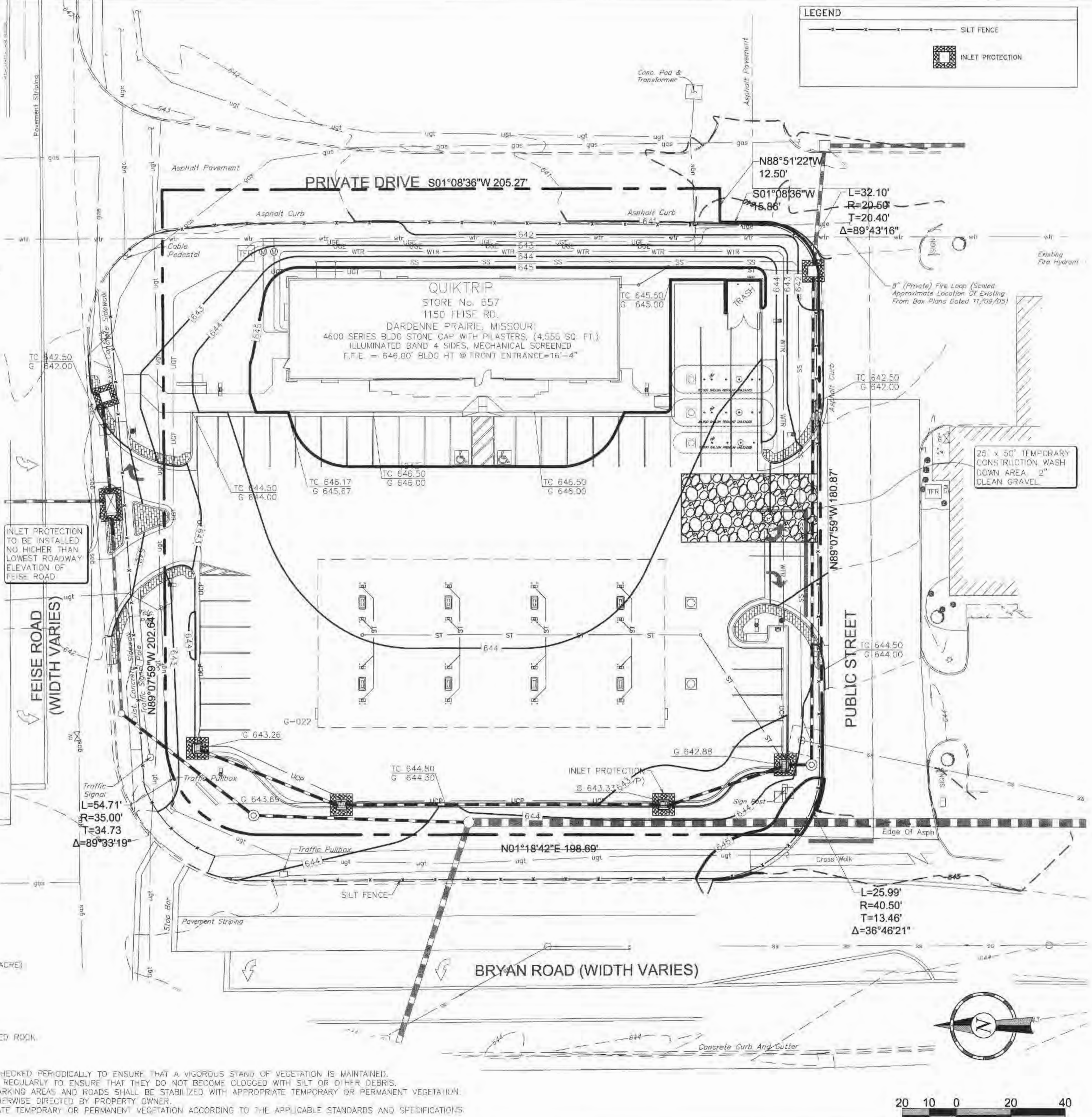
FERTILIZER RATES:

NITROGEN	30 LBS./AC.
PHOSPHATE	30 LBS./AC.
POTASSIUM	30 LBS./AC.
LIME	600 LBS./AC. ENM*

ENM= EFFECTIVE NEUTRALIZING MATERIAL AS PER STATE EVALUATION OF QUARRIED ROCK.

GENERAL VEGETATION NOTES:

- SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED.
- ROADSIDE DITCHES AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.
- ALL ROADSIDE DITCHES, CUTS, FILLS AND DISTURBED AREAS ADJACENT TO PARKING AREAS AND ROADS SHALL BE STABILIZED WITH APPROPRIATE TEMPORARY OR PERMANENT VEGETATION.
- ALL EXISTING LAWNS DISTURBED SHALL BE RESTORED WITH SOIL UNLESS OTHERWISE DIRECTED BY PROPERTY OWNER.
- REFER TO DRAWINGS FOR AREAS THAT SHALL BE STABILIZED WITH APPROPRIATE TEMPORARY OR PERMANENT VEGETATION ACCORDING TO THE APPLICABLE STANDARDS AND SPECIFICATIONS.



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GENERAL NOTES

- ALL TEMPORARY EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- ASSUME REPLACEMENT OF STRAW BALLS TWO TIMES DURING CONSTRUCTION PERIOD FOR EACH INLET SITE.
- CONTRACTOR TO INSTALL SILTATION CONTROL AT BEGINNING OF CONSTRUCTION OF STORM SEWERS, MAINTAIN DURING CONSTRUCTION, REMOVE AFTER PAVING AND LANDSCAPING HAS BEEN COMPLETED. (TYPICAL FOR EACH INLET)
- INSTALL SILTATION CONTROL FENCE PRIOR TO GRADING ALONG ALL DISTURBED AREAS. SILTATION CONTROL FENCE SHALL BE INSTALLED PER MANUFACTURERS SPEC.
- SILT MATERIAL SHALL BE REMOVED AFTER EVERY RAINFALL OR AS REQUIRED TO MAINTAIN SILTATION CONTROL FENCE. MATERIAL REMOVED SHALL BE SPREAD ON SITE IN AN APPROPRIATE LOCATION TO DRY FOR RE-USE.
- CONTRACTOR TO USE EXISTING ASPHALT PAVEMENT AS NECESSARY TO PROVIDE CONSTRUCTION PARKING AND WASH DOWN AREA.

EROSION ITEM CONSIDERATIONS

SILT FENCE	QUANTITY (L.F.): 970
INLET PROTECTION	QUANTITY (E.A.): 7

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1	CITY COMMENTS	9/20/09
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EROSION CONTROL PLAN

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