

GENERAL NOTES

1. ALL PLANS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT "RULES AND REGULATIONS" OF CLERMONT COUNTY AND APPLICABLE OHIO DEPARTMENT OF TRANSPORTATION STANDARDS.

2. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.

3. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE EXEMPTION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS. OWNER WILL OBTAIN NPDES PERMIT.

4. ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE CLERMONT COUNTY. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL PREVAIL.

5. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.

6. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.

7. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.

8. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

9. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OR TRENCHING FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.

10. ADJUST ALL EXISTING CASTINGS, CLEANOUTS, ETC. WITHIN PROJECT AREA TO GRADE AS REQUIRED.

11. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CLERMONT COUNTY AND THE OHIO EPA.

12. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO REMAIN SO UNTIL THE CONSTRUCTION IS COMPLETED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED USE STATE OF OHIO SPECIFICATIONS ITEM 659.

13. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER.

14. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTION ETC. AS REQUIRED TO CONVEY THE RUNOFF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.

15. ALL STORM STRUCTURES ARE TO CONVEY TYPES UNLESS OTHERWISE INDICATED.

16. STORM SEWER PIPE LABELED "SM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35, PVC PROFILE PIPE PER ODOT ITEM 707.42, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33 OR CONTECH ULTRA FLO ALUMINUM CORRUGATED METAL, ODOT ITEM 707.01, 707.02, STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 603, TYPE A.

17. WHERE CURB IS PRESENT, DIMENSIONS ARE SHOWN TO THE FACE OF CURB, OTHERWISE DIMENSIONS ARE SHOWN TO THE EDGE OF PAVEMENT.

18. ALL CATCH BASINS IN THE PAVEMENT OR CURB ARE TO HAVE A MINIMUM OF 1" 4" PERFORATED UNDERDRAIN EXTENDING TO LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION. SEE DETAIL THIS PAGE.

19. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.

20. DISTANCES SHOWN FOR STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. CONTRACTOR RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM STRUCTURES ARE SHOWN TO THE CENTER STRUCTURE, UNLESS OTHERWISE NOTED.

21. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.

22. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES (INCLUDING THOSE LABELED PER RECORD DATA) PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.

23. FORTY-EIGHT HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE OHIO UTILITY PROTECTION SERVICES (OUPS), AND ALL OTHER AGENCIES WHICH MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF OHIO UNDERGROUND PROTECTION, INC.

24. CONTRACTOR TO REMOVE & REPLACE PAVEMENT AS SPECIFIED.

25. SITE SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

26. CONCRETE WALKS SHALL BE 5" THICK OVER 5" COMPACTED GRAVEL WITH CONTROL JOINTS EQUALLY SPACED AT NO MORE THAN 6' ON CENTER. EXPANSION JOINTS AT NO MORE THAN 30' ON CENTER. ALL SIDEWALKS ARE TO BE BROOM FINISHED.

27. ALL WATERMAIN CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED 18" BELOW WATERMAIN AT ALL CROSSINGS. WATERMAIN SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERMAIN PIPE. ONE FULL LENGTH OF WATERMAIN PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE.

28. ALL CATCH BASINS AND MANHOLES WITH A DEPTH GREATER THAN 4" SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF STATE OF OHIO SPECIFICATION ITEM 604.

EROSION CONTROL NOTES

1. DESCRIPTION OF CONSTRUCTION:
PARKING LOT IMPROVEMENTS IN BATAVIA, CLERMONT COUNTY, OHIO, INCLUDING THE PARKING AND ACCESS FOR THE CLERMONT TRANSPORTATION CENTER. NON-CONCRETE RELATED UTILITIES, SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING, INSTALLATION OF EROSION AND SEDIMENT CONTROLS, GRADING, INSTALLATION OF THE SEWERS AND OTHER UTILITIES AND THE PREPARATION FOR FINAL SEEDING.

2. AREA AFFECTED BY CONSTRUCTION: APPROXIMATELY 1.8 ACRES.

3. EXISTING SOIL DATA:
GENESEE SILT LOAM
CLEVELAND SILT LOAM, 2 TO 6 PERCENT SLOPES
OCKLEY SILT LOAM, 0 TO 6 PERCENT SLOPES
GENESEE SILTY CLAY LOAM, 4 TO 12 PERCENT SLOPES
SHOALS SILT LOAM

4. RECEIVING WATERS: EAST FORK LITTLE MIAMI RIVER

5. POTENTIAL POLLUTION SOURCES:
THE MAIN POSSIBLE SOURCE OF POLLUTION WOULD COME FROM ANY OF THE SOIL DISTURBING ACTIVITIES DESCRIBED IN ITEM NO. 1

6. RUNOFF COEFFICIENTS:
PRE: C=0.85
POST: C=0.90 FOR BUILDINGS AND PAVEMENT, 0.45 FOR OTHER AREAS.

7. PROJECT SCHEDULE AND SEQUENCE:
BEGIN: JUNE 1, 2010
END: JUNE 1, 2011

A. INSTALL EROSION CONTROL MEASURES
B. GRADE THE SITE AND STOCKPILE TOPSOIL MINIMIZING THE DISTURBANCE OF EXISTING VEGETATION
C. STABILIZE DENUDED AREAS AND STOCKPILES WITHIN 7 DAYS OF THE LAST CONSTRUCTION ACTIVITY IN THAT AREA
D. INSTALL UTILITIES, STORM SEWER
E. COMPLETE FINAL PAVING
F. COMPLETE GRADING AND INSTALL PERMANENT SEEDING
G. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE EROSION CONTROL MEASURES AND RESEED ANY AREAS DISTURBED BY THEIR REMOVAL.

8. CONTROL MEASURES FOR STORM WATER RUNOFF, EROSION AND SEDIMENT:

STABILIZATION OF DENUDED AREAS AND SOIL STOCKPILES
PERMANENT OR TEMPORARY SOIL STABILIZATION WILL BE APPLIED TO DENUDED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION WILL ALSO BE APPLIED TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR MORE THAN 45 DAYS. APPLICABLE PRACTICES INCLUDE VEGETATIVE ESTABLISHMENT, MULCHING, AND THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED. SOIL STABILIZATION MEASURES WILL BE SELECTED TO BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND ESTIMATED DURATION OF USE. SOIL STOCKPILES WILL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES TO PREVENT SOIL LOSS.

ESTABLISHMENT OF PERMANENT VEGETATION
A PERMANENT VEGETATIVE COVER WILL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION WILL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE SEVERE WEATHER CONDITIONS. (SEE VEGETATIVE PRACTICES - ITEM 10).

PROTECTION OF ADJACENT PROPERTIES

PROPERTIES ADJACENT TO THE SITE OF LAND DISTURBANCE WILL BE PROTECTED FROM SEDIMENT DEPOSITION. THIS WILL BE ACCOMPLISHED BY PRESERVING A WELL VEGETATED BUFFER STRIP AROUND THE LOWER PERIMETER OF LAND DISTURBANCE, BY INSTALLING PERIMETER TRAPPING FACILITIES SUCH AS SEDIMENT TRAPS, FILTERS OR DIKES, OR SEDIMENT BASINS, OR BY A COMBINATION OF SUCH MEASURES. VEGETATED FILTER STRIPS SHALL BE USED ALONG ONLY WHERE RUNOFF IN SHEET FLOW IS EXPECTED. FILTER STRIPS SHOULD BE AT LEAST 15 FEET IN WIDTH. THE TIME IT IS FOUND THAT A VEGETATED FILTER STRIP ALONE IS INEFFECTIVE IN STOPPING SEDIMENT MOVEMENT INTO ADJACENT PROPERTY, ADDITIONAL PERIMETER CONTROLS MUST BE PROVIDED.

TIMING AND STABILIZATION OF SEDIMENT TRAPPING MEASURES
SEDIMENT BASINS, DIVERSIONS, SEDIMENT TRAPS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT ON-SITE WILL BE CONSTRUCTED AS A FIRST STEP IN GRADING AND BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE. EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS WILL BE SEEDED AND MULCHED AFTER INSTALLATION.

SEDIMENT BASINS
STORMWATER RUNOFF CONTAINING DAMAGING AMOUNTS OF SEDIMENT SHALL PASS THROUGH A SEDIMENT BASIN OR OTHER SUITABLE SEDIMENT TRAPPING FACILITY.

CUT AND FILL SLOPES
CUT AND FILL SLOPES WILL BE DESIGNED AND CONSTRUCTED IN A MANNER WHICH WILL MINIMIZE EROSION. SLOPES WHICH ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF CONSTRUCTION WILL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

STORMWATER MANAGEMENT
CONCENTRATED STORMWATER RUNOFF LEAVING THE SITE WILL BE DISCHARGED DIRECTLY INTO A WELL DEFINED ADEQUATELY PROTECTED NATURAL OR MAN-MADE OFF SITE RECEIVING CHANNEL OR PIPE, IF NO OFF SITE CHANNEL OR PIPE EXISTS, THE STORMWATER WILL BE DETAINED ON SITE IN A SUITABLE RETENTION/DETENTION FACILITY.

STABILIZATION OF WATERWAYS AND OUTLETS
ALL ON SITE STORMWATER CONVEYANCE CHANNELS WILL BE DESIGNED AND CONSTRUCTED TO WITHSTAND THE EXPECTED VELOCITY OF FLOW FROM A 10 YEAR FREQUENT STORM WITHOUT EROSION. DESIGN FOR A LARGER MAY BE NECESSARY FOR PROTECTION FROM THE STORMWATER FLOW. STABILIZATION ADEQUATE TO PREVENT EROSION WILL ALSO BE PROVIDED AT THE OUTLETS OF ALL PIPES AND PAVED CHANNELS.

STORM SEWER INLET PROTECTION
ALL STORM SEWER INLETS WHICH ARE MADE OPERABLE DURING CONSTRUCTION WILL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

WORKING IN OR CROSSING WATERCOURSES
CONSTRUCTION VEHICLES WILL BE KEPT OUT OF WATERCOURSES WHENEVER POSSIBLE. WHERE IN-CANNEL WORK IS NECESSARY, PRECAUTIONS WILL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION. THE CHANNEL (INCLUDING BED AND BANKS) WILL ALWAYS BE RESTABILIZED IMMEDIATELY AFTER IN-CANNEL WORK IS COMPLETED. WHERE A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY STREAM CROSSING WILL BE PROVIDED.

CONSTRUCTION ACCESS ROUTES AND PARKING AREAS
WHENEVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS WILL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT (MUD) BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. TEMPORARY CONSTRUCTION ROADS WILL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHOULD NOT EXCEED 10 PERCENT. ROADBEDS SHALL BE AT LEAST 14 FEET WIDE FOR TWO-WAY TRAFFIC, AND 20 FEET WIDE FOR TWO-WAY TRAFFIC. TEMPORARY PARKING AREAS WILL BE LOCATED ON NATURALLY FLAT AREAS WHENEVER POSSIBLE. MINIMIZE GRADING GRADES FOR SAID PARKING AREAS SHOULD BE SUFFICIENT TO PROVIDE DRAINAGE BUT NOT EXCEED A PERCENT SLOPE. BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL. SEEDED AREAS ADJACENT TO ROADS AND PARKING AREAS WILL BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED.

DISPOSITION OF TEMPORARY MEASURES
ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE DISPOSED OF AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS WILL BE RESTORED TO THE CONDITION FROM WHICH THEY WERE PERMANENTLY STABILIZED TO PREVENT EROSION AND SEDIMENTATION.

MAINTENANCE
ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUING PERFORMANCE OF THEIR INTENDED FUNCTION.

I.E. STORM INLET PROTECTION
INLET STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE INLET PROTECTION SHALL BE RESTORED TO ITS ORIGINAL WORKING CONDITION. AT NO TIME SHALL MORE THAN A 2" BUILD UP OF SEDIMENT REMAIN AROUND THE INLET PROTECTION.

I.F. FILTER STRIPS
A HEALTHY GROWTH OF VEGETATION CAN BEST BE MAINTAINED BY FERTILIZING, REMOVING SEDIMENT WHEN FILTER BECOMES CLOGGED, AND BY PREVENTING OR REDUCING CONSTRUCTION TRAFFIC FROM DRIVING ACROSS FILTER STRIPS.

I.G. SILT FENCES AND FILTER BARRIERS
SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

I.H. STRAW BALE BARRIERS
STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

9. CONSTRUCTION CONTROL PRACTICES:

SILT FENCES (SF) - SEE SILT FENCE DETAIL
MATERIAL: SYNTHETIC FILTER FABRIC SHALL BE A SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS.

PHYSICAL PROPERTY REQUIREMENTS

FILTERING EFFICIENCY	75 PERCENT (MIN.)
TENSILE STRENGTH	EXTRA STRENGTH
20% (MAX.) ELONGATION	50 lbs./in. in. (MIN.)
STANDARD STRENGTH	30 lbs./in. in. (MIN.)
FLOW RATE	0.3 gal./sq. ft./min. (MIN.)

* REQUIREMENTS REDUCED BY 50% AFTER 6 MONTHS OF INSTALLATION.

SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE OF ZERO DEGREES F TO 120 DEGREES F.

BURLAP SHALL BE 10 OUNCES PER SQ. YD. OF FABRIC.

POSTS FOR SILT FENCES SHALL BE EITHER 4" x 4" WOOD OR STEEL WITH A MIN. LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.

WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE 42 INCHES IN HEIGHT, A MIN. OF 14 GA. AND SHALL HAVE A MAX. MESH SPACING OF 6 INCHES.

THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRDED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXCEED 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL. CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE TIED TOGETHER ONLY AT A SUPPORT POST, WITH A MIN. 6 INCH OVERLAP, AND SECURELY SEALED.

POSTS SHALL BE SPACED AT A MAX. OF 10 FEET APART. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.

WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRDED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS APPLYING.

STRAW BALE BARRIERS (SBB) - SEE STRAW BALE BARRIER DETAIL

PROPERTIES WILL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR (FOR SHEET FLOW APPLICATIONS), OR PERPENDICULAR TO THE CONTOUR (FOR CHANNEL FLOW APPLICATIONS), WITH BOTH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. ALL BALES SHALL BE EITHER WIRE BOUND OR STRING TIED. SAID BINDINGS SHALL BE INSTALLED SUCH THAT THEY ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 4 INCHES. EACH BALE SHALL BE ANCHORED BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY Laid BALES TO FORCE BALES TOGETHER. STAKES OR REBARS WILL BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES. GAPS BETWEEN BALES SHALL BE CHINKED (FILLED BY MEDIUM) WITH STRAW TO PREVENT WATER FROM ESCAPING BETWEEN BALES. AFTER THE BALES ARE STAKED AND CHINKED THE EXCAVATED TRENCH SHALL BE BACKFILLED AGAINST THE BARRIER. LOOSE STRAW SHALL BE SCATTERED OVER THE AREA IMMEDIATELY UPHILL FROM A STRAW BALE BARRIER TO INCREASE BARRIER EFFICIENCY.

GRAVEL CURB INLET SEDIMENT FILTER (CIP)
SEE GRAVEL CURB INLET SEDIMENT FILTER DETAIL

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE UNCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" INCH OPENINGS SHALL BE PLACED OVER THE CURB INLET OPENING SO THAT AT LEAST 12 INCHES OF WIRE EXTENDS ACROSS THE INLET COVER AND AT LEAST 12 INCHES OF WIRE EXTENDS ACROSS THE CONCRETE GUTTER FROM THE INLET OPENING.

ODOT NO. 1 COARSE AGGREGATE SHALL BE PILED AGAINST THE WIRE SO AS TO ANCHOR IT AGAINST THE GUTTER AND INLET COVER AND TO COVER THE INLET OPENING COMPLETELY.

IF STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCK, CLEANED AND REPLACED.

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER (DMD)
SEE GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER DETAIL

WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 12 INCHES BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2" INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.

No. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS SHOWN IN ABOVE MENTIONED DETAIL. THE DEPTH OF THE STONE SHALL BE AT LEAST 6 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.

CHECK DAM (CD)
CHECK DAMS ARE USUALLY INEFFECTIVE FOR CATCHING SEDIMENT BUT CAN SLOW FLOW VELOCITIES AND REDUCE CHANNEL EROSION. ROCK TYPES AND SIZE OF THE DAM ARE TO BE DETERMINED BY THE ENGINEER.

IF AT ANY TIME IT IS FOUND THAT A CHECK DAM ALONE IS INEFFECTIVE IN ADEQUATELY PERFORMING ITS FUNCTION, ADDITIONAL CONTROL MEASURES MUST BE PROVIDED.

10. VEGETATIVE PRACTICES:

FILTER STRIP (FS)
A STRIP OR AREA OF VEGETATION (BEING A MIN. OF 15 FEET AND A MAX. OF 100 FEET IN WIDTH) TO REMOVE SEDIMENT AND OTHER POLLUTANTS FROM RUNOFF. THIS PRACTICE APPLIES TO LAND UNDERGOING DEVELOPMENT WHERE FILTER STRIPS ARE NEEDED TO REDUCE SEDIMENT DAMAGE TO ADJACENT PROPERTY, EROSION OR GRASS/LEGUME MIXTURES, IF WELL ESTABLISHED, SHOULD BE USED AS FILTER STRIPS.

THE FOLLOWING CHART APPLIES WHEN ESTABLISHING NEW SEEDINGS.

SEEDING MIXTURE AND SITE SUITABILITY CHART

SEEDING MIXTURE	RATE lbs/acre	WET2	WELL DRAINED3
1. Alfalfa	10		*
plus Red Clover	10		*
plus Timothy	4		*
or Orchardgrass	6		*
or Bromegrass	6		*
2. Ladino Clover4	1/2		*
plus Timothy	4		*
or Orchardgrass	6		*
or Bromegrass	6		*
3. Tall Fescue	40	*	*
4. Reed Canarygrass	15	*	*
Tall Fescue	10		*

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT CONSTRUCTION SPECIFICATIONS

1. THE AGGREGATE SIZE FOR CONSTRUCTION OF THE PAD SHALL BE 2- TO 3-INCH STONE, PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SLOPER TO THE SPECIFIC GRADE.

2. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 6 INCHES. USE GEOTEXTILE FABRICS, IF NECESSARY, TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE. GEOTEXTILE SHALL HAVE A GRAB TENSILE STRENGTH OF 200 LB. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LB.

3. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS AND IN ANY CASE SHALL NOT BE LESS THAN 12 FEET WIDE.

4. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.

5. LOCATE CONSTRUCTION ENTRANCES AND EXITS TO LIMIT SEDIMENT LEAVING THE SITE AND TO PROVIDE FOR MAXIMUM UTILITY BY CONSTRUCTION VEHICLES. AVOID ENTRANCES WHICH HAVE STEEP GRADES AND ENTRANCES AT CURVES IN PUBLIC ROADS.

6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

7. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.

8. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT 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 INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

9. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, STRAW BALES, OR OTHER APPROVED METHODS.

10. A DIVERST SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE AND FROM BEING DIRECTED ONTO PAVED SURFACES.

INSPECTION AND MAINTENANCE
1. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.

2. REPLACE GRAVEL MATERIAL WHEN SURFACE VOIDS ARE VISIBLE

3. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY.

4. IMMEDIATELY REMOVE ALL OBSCURABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS WITHIN 24 HOURS.

THE SEEDER SHALL BE ROUGHENED WITH A RAKE OR SIMILAR TOOL AND FERTILIZED WITH 100 LBS. PER ACRE OF 15-15-15 OR EQUIVALENT (24 lbs./100 SQ. FT.).

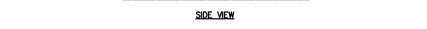
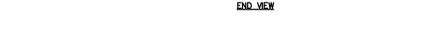
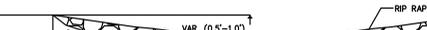
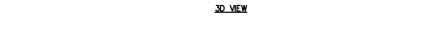
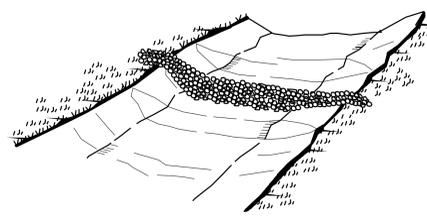
GRASS SELECTION AND ESTABLISHMENT:

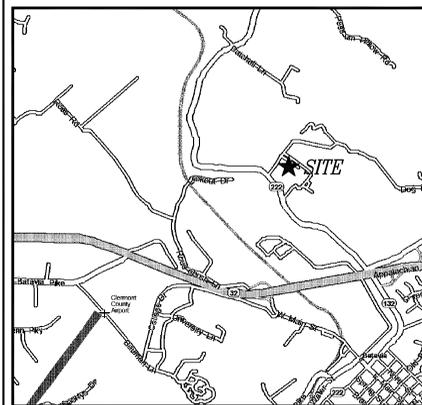
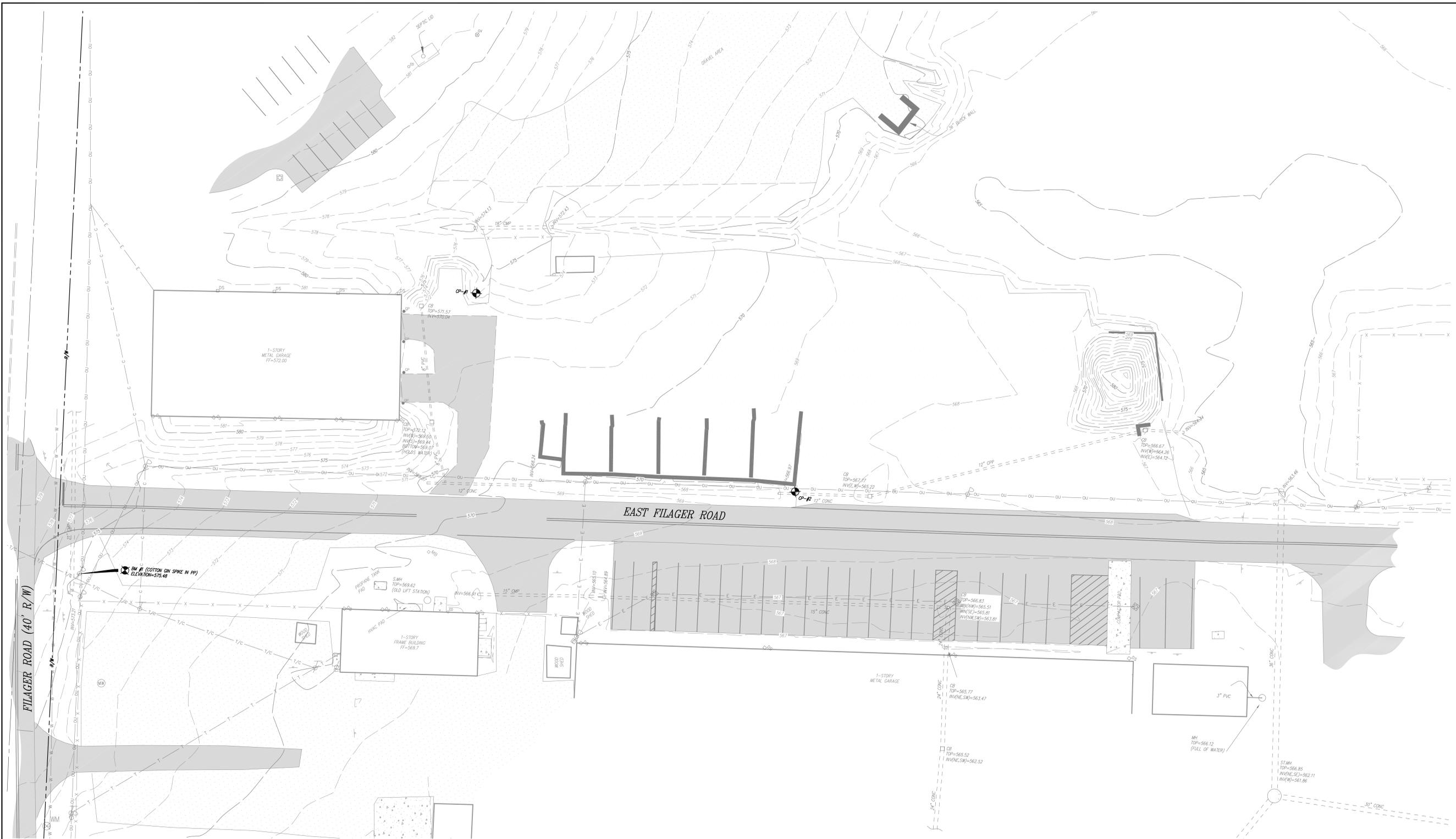
A. TALL FESCUE--SEED AT A RATE OF 40 LBS./ACRE (1 lb./100 SQ. FT.) AND MULCH WITH STRAW AT A RATE OF 2 TONS PER ACRE (30 lbs./1000 SQ. FT.). ESTABLISH BETWEEN APRIL 1 TO MARCH 15 OR AUGUST 1 TO SEPTEMBER 30. COVER THE SEED 1/4-1/2 INCH BY RAKE OR SIMILAR TOOL. THIS MIXTURE IS ADAPTABLE TO SOILS THAT ARE VERY WET AS WELL AS WELL DRAINED SOIL CONDITIONS.

B. REED CANARYGRASS (PHALARIS ARUNDINACEAE) PLUS TALL FESCUE--SEED THE REED CANARYGRASS AT A RATE OF 15 LBS./ACRE (1/3 lb./1000 SQ. FT.), PLUS 10 LBS./ACRE (1/4 lb./1000 SQ. FT.) OF TALL FESCUE. MULCH WITH STRAW AT A RATE OF 2 TONS/ACRE (90 lbs./1000 SQ. FT.). THIS MIXTURE SHOULD ONLY BE SEED FROM MARCH 1 TO MAY 15, OR AUGUST 15 TO SEPTEMBER 30. COVER THE SEED 1/4-1/2 INCH BY RAKING OR SIMILAR TOOL. THIS MIXTURE IS ADAPTABLE TO SOILS THAT ARE VERY WET AS WELL AS WELL DRAINED SOIL CONDITIONS.

REED CANARYGRASS CAN WITHSTAND EXTENDED PERIODS OF DROODING. IF IS EXPOSED TO DROODING, REED CANARYGRASS CAN ALSO BE ESTABLISHED BY SOD STRIPS, USING RHIZOMES OR FRESH CUT CUTS. THE CONSERVATION SERVICE OFFICE CAN PROVIDE THE SPECIFIC DETAILS REQUIRED TO USE ONE OF THE ALTERNATIVE ESTABLISHMENT METHODS.

11. FINAL SITE STABILIZATION
FINAL SITE STABILIZATION IS CONSIDERED ACHIEVED ONCE ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES ARE REMOVED AND DISPOSED OF AND ALL TRAPPED SEDIMENT HAS BEEN PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.





VICINITY MAP
NO SCALE

- LEGEND**
- ELECTRIC BOX (FIRE ALARM BOX)
 - BUSH
 - HARDWOOD TREE
 - MULCH
 - SINGLE POST SIGN
 - CATCH BASIN
 - MANHOLE
 - CLEANOUT
 - DOWNSPOUT
 - LIGHT POLE
 - POWER POLE
 - GUY WIRE
 - WATER VALVE
 - FIRE HYDRANT
 - TREE LINE
 - FENCING LINE
 - OVERHEAD ELECTRIC
 - OVERHEAD UTILITY
 - TELEPHONE POLE
 - STORM SEWER
 - SANITARY SEWER
 - ASPHALT AREA
 - CONCRETE AREA
 - GRAVEL AREA



0 10 20 30
SCALE: 1"=20'

HORIZONTAL CONTROL
CP-#1
HUB
NORTHING= 403373.17
EASTING = 1489919.47
ELEVATION = 574.12

CP-#2
HUB
NORTHING= 403193.34
EASTING = 1489991.64
ELEVATION = 568.48

NOTES:
1. TOPOGRAPHIC INFORMATION BASED ON CLERMONT COUNTY CONTROL MONUMENT #90. (ELEV=578.07 MAND 88)
2. SITE BENCHMARK IS A COTTON GIN SPIKE IN POWER POLE AS SHOWN HEREON. ELEVATION=575.48

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITY PROTECTION SERVICE

CLERMONT COUNTY
CTC FACILITY RENOVATION / IMPROVEMENT PHASE I
4003 FILAGER ROAD
BATAVIA, OHIO 45103

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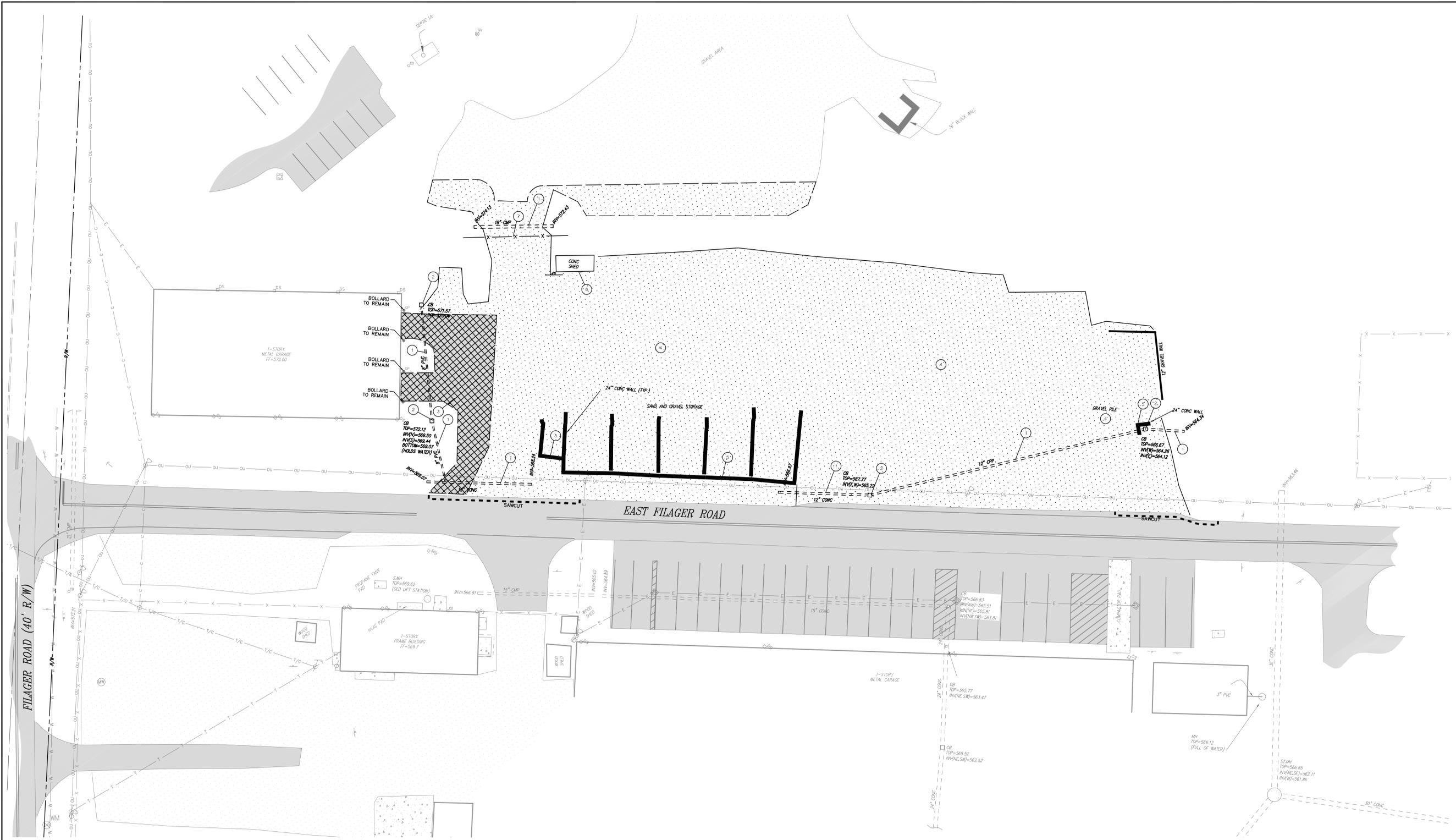
DATE	ISSUED FOR:
03-19-10	OWNER REVIEW
04-23-10	OWNER REVIEW
05-07-10	PERMIT
06-11-10	PERMIT
06-15-10	BID SET

NO. DATE REVISION

PROJECT NO.: 09115.10

DRAWING TITLE
BASEMAP

C2.0



- DEMOLITION KEY NOTES:**
1. REMOVE STORM PIPE.
 2. REMOVE CATCH BASIN.
 3. REMOVE ASPHALT FULL-DEPTH TO EXTENTS INDICATED.
 4. REMOVE GRAVEL TO EXTENTS INDICATED.
 5. REMOVE WALL AND FOUNDATION COMPLETE.
 6. REMOVE BUILDING AND FOUNDATION COMPLETE. FILL AND COMPACT SUBGRADE WITH SUITABLE MATERIAL.
 7. REMOVE FENCE AND FOUNDATION COMPLETE.

NOTE: ALL SITE DEMOLITION WORK SHOWN ON THIS SHEET IS PART OF BID ALTERNATE #2.



CLERMONT COUNTY
CTC FACILITY RENOVATION / IMPROVEMENT PHASE I
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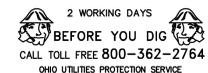
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NO.	DATE	REVISION

PROJECT NO.: 09115.10

DRAWING TITLE
DEMOLITION PLAN



C3.0

