**VICINITY MAP** SCALE: 1" = 1000'

# iVCP MUHLHAUSER 2 LLC

# MASS GRADING 4325 MUHLHAUSER ROAD FAIRFIELD, OH 45014

GENERAL: THE CURRENT STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOTCMS) TOGETHER WITH THE REQUIREMENTS OF THE CITY OF FAIRFIELD, INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF CONTRACT, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS. WHEN THERE IS OR APPEARS TO BE A CONFLICT BETWEEN THE ABOVE REFERENCED SPECIFICATIONS AND THESE PLANS, THE MOST STRINGENT REQUIREMENT SHALL

PROJECT LIMITS: THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHTS-OF-WAY, CONSTRUCTION EASEMENTS, AND PERMANENT EASEMENTS, AND SHALL NOT TRESPASS UPON PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE PROPERTY OWNER.

MISCELLANEOUS WORK: ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.

DRAINAGE TILE: ALL FARM DRAINS, ROADWAY DRAINS, AND OTHER DRAINAGE TILE WHICH ARE ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS DURING CONSTRUCTION SHALL BE PROVIDED WITH AN UNOBSTRUCTED OUTLET. EXISTING COLLECTOR TILES WHICH ARE LOCATED BELOW THE PROPOSED FINISHED ELEVATION AND WHICH CROSS THE TRENCH SHALL BE REPLACED WITHIN THE TRENCH LIMITS BY ITEM 603 CONDUIT. THE LOCATION, TYPE, SIZE, AND GRADE OF REQUIRED REPLACEMENT SHALL BE DETERMINED BY THE PROJECT ENGINEER OR HIS SITE REPRESENTATIVE DURING CONSTRUCTION. NECESSARY BENDS OR FITTINGS, COMPACTED GRANULAR BACKFILL, AND ASSOCIATED ITEMS SHALL BE INCLUDED IN THE BID PRICE.

BORROW MATERIAL AND SURPLUS EXCAVATION: THE SITE SHALL BE CONSTRUCTED TO THE FINAL GRADES SHOWN ON THE PLANS. WHERE NECESSARY, THE CONTRACTOR SHALL OBTAIN SUITABLE BORROW MATERIAL ON-SITE OR OFF-SITE AS NEEDED TO COMPLETE THE SITE CONSTRUCTION AS PROVIDED HEREIN. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION ON SITE, AND, IF NECESSARY, SHALL HAUL SURPLUS EXCAVATED MATERIAL AWAY FROM THE SITE AND DISPOSE OF PROPERLY.

EXISTING UTILITIES: THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS APPROXIMATE. THE LOCATION. SIZES, AND OTHER INFORMATION SHOWN IS ONLY AS ACCURATE AS THAT PROVIDED BY THE OWNERS OF THE UTILITY. THIS INFORMATION IS NOT REPRESENTED, WARRANTED OR GUARANTEED TO BE COMPLETE OR ACCURATE. THE ENGINEER DOES NOT INDEPENDENTLY VERIFY NOR FIELD LOCATE UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO PHYSICALLY LOCATE AND VERIFY, IN THE FIELD, THE HORIZONTAL AND VERTICAL LOCATIONS, WHETHER SHOWN ON THE PLAN OR NOT, PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL SUPPORT, PROTECT, AND RESTORE ALL EXISTING UTILITIES AND THEIR ASSOCIATED ITEMS. THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE AND ALL UTILITY OWNERS HAVING FACILITIES IN THE CONSTRUCTION AREA WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND UTILITY PROTECTION SERVICE. THE CONTRACTOR SHALL ADHERE TO SECTION 153.64, OHIO REVISED CODE. THE CONTRACTOR SHALL GIVE NOTIFICATION AS REQUIRED BY OHIO REVISED CODE, AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, AND SHALL COORDINATE HIS WORK WITH THE UTILITY OWNERS UNTIL HIS WORK IS COMPLETED. THE CONTRACTOR SHALL KEEP THE UTILITY OWNERS APPRISED OF HIS SCHEDULE AND REQUIREMENTS AND SHALL PROVIDE THE PROJECT OWNER WITH EVIDENCE OF HAVING NOTIFIED THE UTILITIES AND PROVIDING THEM WITH HIS WORK SCHEDULE PRIOR TO BEGINNING ANY WORK.

THE CONTRACTOR MAY REVIEW THE INFORMATION PROVIDED TO THE ENGINEER BY THE UTILITY COMPANIES AT THE ENGINEER'S OFFICE PRIOR TO SUBMITTING A BID. CONTRACTORS REQUIRING MORE INFORMATION REGARDING EXISTING UTILITIES SHOULD CONDUCT THEIR OWN FIELD INVESTIGATIONS, OR OTHERWISE LOCATE THE UTILITIES, PRIOR TO SUBMITTING A BID FOR THE CONSTRUCTION. NOTICE SHALL BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764), FOR THE MEMBER UTILITIES.

PERMITS: THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS UNLESS OTHERWISE INDICATED IN THESE DOCUMENTS. THE CONTRACTOR SHALL NOT ENTER ON PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE PROPERTY

INSTALLATION IN EMBANKMENT: WHERE UTILITIES ARE TO BE INSTALLED IN EMBANKMENT AREAS, THE EMBANKMENT SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS A MINIMUM OF TWO FEET ABOVE THE PIPE BUT SUFFICIENTLY ABOVE THE PIPE TO PROTECT THE PIPE FROM DAMAGE DUE TO FURTHER CONSTRUCTION ACTIVITIES PRIOR TO THE INSTALLATION OF THE UTILITY.

TEMPORARY PAVEMENT: TEMPORARY PAVEMENT REPLACEMENT SHALL BE PROVIDED ON PERMANENT PAVEMENT DAMAGED OR REMOVED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK. AS SOON AS THE TRENCH HAS BEEN BACKFILLED TEMPORARY PAVEMENT SHALL BE INSTALLED. THE ENGINEER MAY REQUIRE THAT ALL MATERIALS AND EQUIPMENT INCIDENTAL TO PROVIDING THE TEMPORARY PAVEMENT BE ON THE JOB SITE PRIOR TO REMOVING THE EXISTING PAVEMENT. THE TEMPORARY PAVEMENT SHALL CONSIST OF 2 INCHES OF BITUMINOUS COLD MIX MATERIAL PLACED UPON 6 INCHES OF COMPACTED ITEM 304 (ODOTCMS). AGGREGATE BASE. TEMPORARY PAVEMENT SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT PAVEMENT IS INSTALLED.

PERMANENT PAVEMENT: WHERE DAMAGED OR REMOVED, THE PAVEMENT SHALL BE REPLACED BY FIRST REMOVING THE TEMPORARY PAVEMENT DOWN TO THE CLEAN GRANULAR MATERIAL AND REMOVING THE EXISTING PAVEMENT FOR AT LEAST 12 INCHES BEYOND THE TRENCH LIMITS ON EACH SIDE. THE PAVEMENT TO BE REMOVED SHALL BE NEATLY SAWED, NOT MORE THAN 72 HOURS PRIOR TO THE PLACING OF PERMANENT PAVEMENT MATERIALS. THE PERMANENT PAVEMENT REPLACEMENT MATERIALS AND WORKMANSHIP SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS. ITEM 407 (ODOTCMS) TACK COAT SHALL BE APPLIED TO THE EXPOSED EXISTING PAVEMENT EDGES, WHEN EITHER THE EXISTING OR NEW PAVEMENT IS BITUMINOUS MATERIAL, AND ITEM 407 (ODOTCMS) TACK COAT OR 408 (ODOTCMS). PRIME COAT SHALL BE APPLIED TO THE BASE MATERIAL, DEPENDING UPON THE BASE MATERIAL. WHEN THE PERMANENT PAVEMENT IS BITUMINOUS MATERIAL, PRIOR TO THE PLACING OF THE PERMANENT PAVEMENT.

TRAFFIC CONTROL: THE CONTRACTOR SHALL USE ADEQUATE LIGHTS, SIGNS, FLAGGERS, AND BARRICADES AS REQUIRED IN ITEM 614 (ODOTCMS) TO SAFEGUARD THE TRAVELING PUBLIC AT ALL TIMES. ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON—WORKING HOURS. WHERE IT IS ANTICIPATED THAT WORK WILL CLOSE A ROAD OR STREET, THE CONTRACTOR SHALL INFORM THE RESIDENTS TO BE AFFECTED, THE LOCAL LAW ENFORCEMENT AGENCY, THE LOCAL FIRE DEPARTMENT, AND THE ENGINEER AS TO THE EXTENT, NATURE, AND THE TIME OF THE ANTICIPATED WORK. THE CONTRACTOR SHALL SUBMIT A PLAN AND SCHEDULE FOR DETOURING TRAFFIC TEN (10) DAYS PRIOR TO THE CLOSING OF ANY ROAD OR STREET TO THE ENGINEER AND ROAD OWNER. DURING A CLOSING OF A ROAD OR STREET, THE CONTRACTOR SHALL PROVIDE ACCESS TO THE PROPERTY FOR EMERGENCY VEHICLES AND THE PROPERTY OWNERS. NO ROAD OR STREET SHALL BE CLOSED UNTIL THE SCHEDULE IS APPROVED BY THE AGENCY HAVING CONTROL OF THE ROAD. WORK REQUIRING A LANE CLOSURE MUST BE PERFORMED DURING THE HOURS OF 8:00 PM AND 6:00 AM. ODOT PERMIT OFFICE TO BE NOTIFIED THREE (3) WORKING DAYS PRIOR TO START OF WORK. WORK IN STATE ROUTES (IF NECESSARY) SHALL BEGIN ON A SUNDAY OR MONDAY NIGHT TO ENSURE THAT PAVEMENT REPLACEMENT IS COMPLETED BY FRIDAY.

SAFETY OF CONSTRUCTION: THE CONTRACTOR SHALL COMPLY WITH THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA) AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, FINDINGS AND ORDERS RELATING TO SAFETY AND HEALTH CONDITIONS ON THE WORK SITE. CONSTRUCTION METHODS FOR COMPLETING THE WORK DESCRIBED IN THESE CONTRACT DOCUMENTS SHALL BE CONSISTENT WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AMENDED CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUB-PART P, EFFECTIVE MARCH 5, 1990.

CLEANOUT TOPS: WHERE CLEANOUTS ARE LOCATED WITHIN PUBLIC OR PRIVATE PAVEMENT, SIDEWALK, CONCRETE PAD, OR PAVED SHOULDER, THE TOPS SHALL BE BUILT TO EXISTING PAVEMENT ELEVATIONS.

FINAL GRADING AND CLEAN-UP: THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SURFACES. STRUCTURES. DITCHES. AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. ALL SIGNS, MAILBOXES, FENCES, GUARDRAILS, ROADSIDE DITCHES, OR OTHER PHYSICAL FEATURES DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR. THE COST OF ALL SUCH WORK SHALL BE INCLUDED WITH THE VARIOUS RELATED ITEMS.

SEEDING AND MULCHING: ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ELEVATION OR TO THE PROPOSED ELEVATION SHOWN ON THE DRAWINGS, AND PROPER DRAINAGE SHALL BE PROVIDED. AFTER FINAL GRADING, THE SEED BED SHALL BE RAKED AND ALL STONES, CLODS, LUMPS, AND OTHER FOREIGN MATERIAL GREATER THAN 1" IN DIAMETER SHALL BE REMOVED PRIOR TO SEEDING AND MULCHING. ALL AREAS SHALL BE SEEDED AS PER THE URBAN SEED MIX OF SECTION 659.09 (ODOTCMS). THE CONTRACTOR SHALL WATER, RE-SEED, AND MULCH AS NECESSARY UNTIL AN ACCEPTABLE STAND OF GRASS IS ACHIEVED.

CONFLICTS IN GRADE: IN ALL CONFLICTS IN GRADE BETWEEN THE CONCENTRATE LINES AND OTHER EXISTING UTILITIES, THE CONCENTRATE LINE SHALL BE LOWERED DURING CONSTRUCTION. A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE CONCENTRATE LINE AND ANY SANITARY SEWER; 12" MINIMUM VERTICAL CLEARANCE FOR OTHER UTILITIES. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AHEAD OF HIS CONSTRUCTION OPERATIONS TO ALLOW FOR ADJUSTMENTS IN GRADE TO THE CONCENTRATE LINE THAT MAY BE REQUIRED AS A RESULT OF A POTENTIAL CONFLICT IN GRADE WITH AN EXISTING UTILITY. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR LOWERING THE CONCENTRATE LINE TO AVOID CONFLICTS WITH EXISTING UTILITIES.

#### **PROHIBITED CONSTRUCTION ACTIVITIES:**

USING ANY SUBSTANCE OTHER THAN WATER TO CONTROL DUST.

OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PERMIT OR DISPOSING OF THE TREES AND

PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS. ANY STREAM CORRIDORS. ANY WETLANDS. OR STORM

DISCHARGING POLLUTANTS — SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE — AND OTHER HARMFUL WASTE INTO OR ALONGSIDE RIVERS. STREAMS. IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.

STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIAL ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED BY THE CITY ENGINEER FOR SAID PURPOSES.

DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.

INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLAND SURFACE WATERS, OR OUTSIDE THE EASEMENT AREA.

PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF A STREAM.

DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.

DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, AND SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.

## EROSION & SEDIMENT CONTROL:

CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL A SWPPP PRIOR TO CONSTRUCTION. COST FOR SWPPP SHALL BE INCLUDED IN THE ITEM SPECIAL, STORM WATER POLLUTION PREVENTION PLAN AND IMPLEMENTATION.

THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT INCLUDING WATERWAYS. OVERLAND SHEET FLOW, AND STORM SEWERS. EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED AS PER THE REQUIREMENTS OF THE OHIO EPA, CITY OF FAIRFIELD, AND THE STANDARDS AND SPECIFICATIONS OF THE "RAINWATER AND LAND DEVELOPMENT" MANUAL BY THE ODNR.

EROSION AND SEDIMENT CONTROL ARE TO BE MAINTAINED UNTIL SUCH TIME THAT THEY ARE NO LONGER REQUIRED BY THE ENGINEER. ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE ENGINEER AND/OR THE OHIO EPA. FAILURE TO COMPLY WITH THESE REGULATIONS IS SUBJECT TO LEGAL ENFORCEMENT

## **CURRENT OWNER:**

**IVCP MUHLHAUSER 2 LLC** 810 BULL LEA RUN #300 LEXINGTON, KY 40511 **CONTACT: JOSHUA LEWIS** JOSHUA.LEWIS@IVISIONARY.COM

(859) 291-5003

# **CONTRACTOR:**

DENHAM BLYTHE 100 TRADE STREET LEXINGTON, KY 40511 CONTACT: WILLIAM QUENEMOEN, P.E. BILLQ@DENHAMBLYTHE.COM (859) 255-7405

# **CIVIL ENGINEER:**

INFRASTRUCTURE & **DEVELOPMENT ENGINEERING, INC.** 9338 CINCINNATI COLUMBUS RD WEST CHESTER, OH 45241 CONTACT: TIMOTHY FOSTER, P.E. TIMF@IDE-OH.COM (513) 671-8144

## **CITY ENGINEER:**

CITY OF FAIRFIELD 8870 N. GILMORE ROAD FAIRFIELD, OH 45014 CONTACT: NICHOLAS DILL. P.E. NDILL@FAIRFIELD-CITY.ORG (513) 967-4221



# SHEET INDEX:

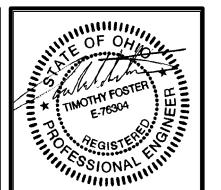
C101 COVER SHEET C102 GRADING AND EROSION CONTROL PLAN

C103 DETAILS

C104 EROSION AND SEDIMENT CONTROL DETAILS

## \* CALL BEFORE YOU DIG "O.U.P.S." \*

NOTE: THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION AND SHALL CONTACT THE UTILITIES PROTECTION SERVICE A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO DIGGING AT THE NUMBER BELOW. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICTS ON THIS MATTER AND NO EXCAVATION SHALL COMMENCE UNTIL ALL APPLICABLE UTILITIES HAVE BEEN CLEARED. 1-800-362-2764





CINCINNATI OFFICE 9338 CINCINNATI COLUMBUS RD WEST CHESTER, OHIO 45241 Tele: (513) 671-8144

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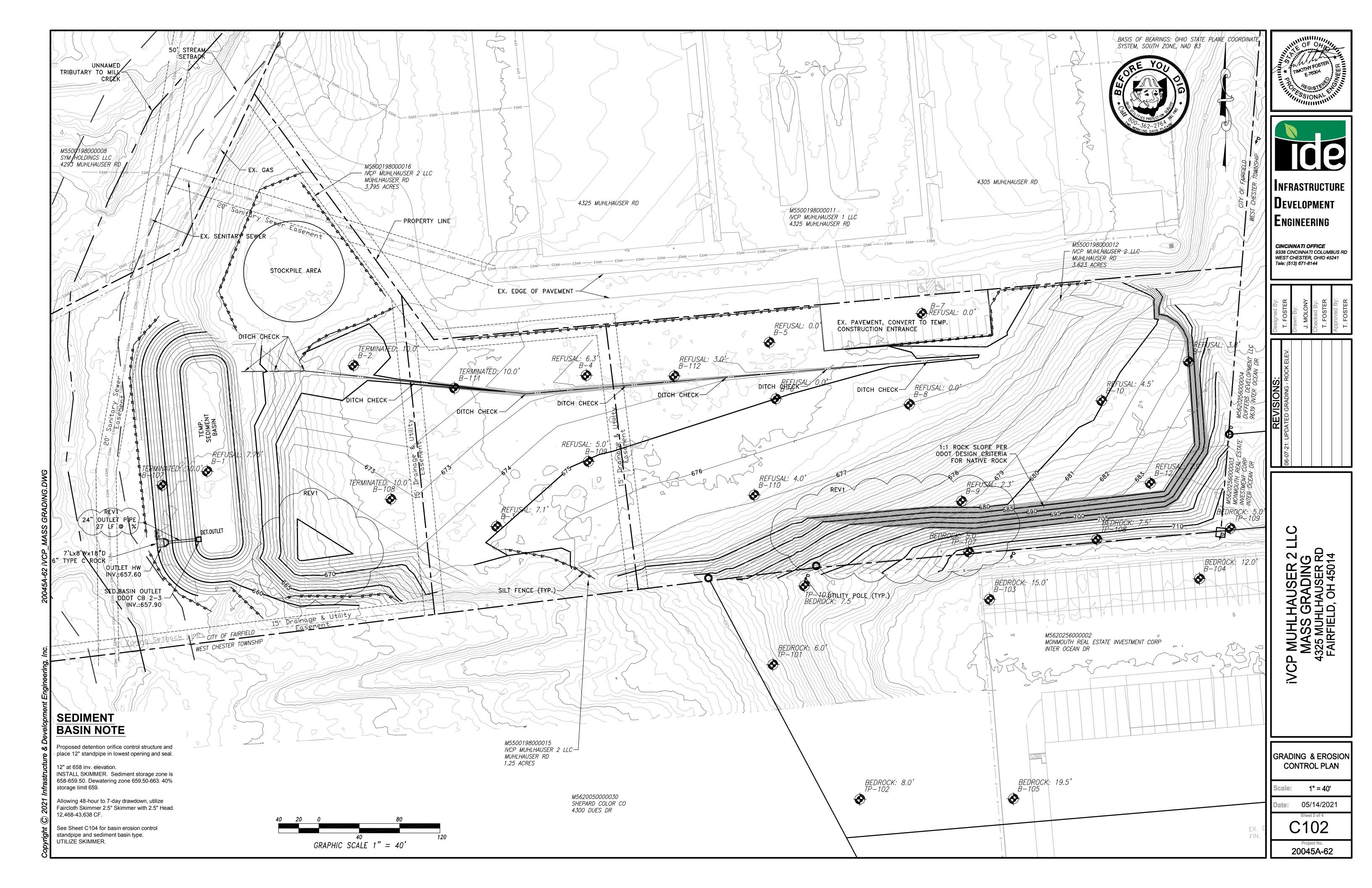
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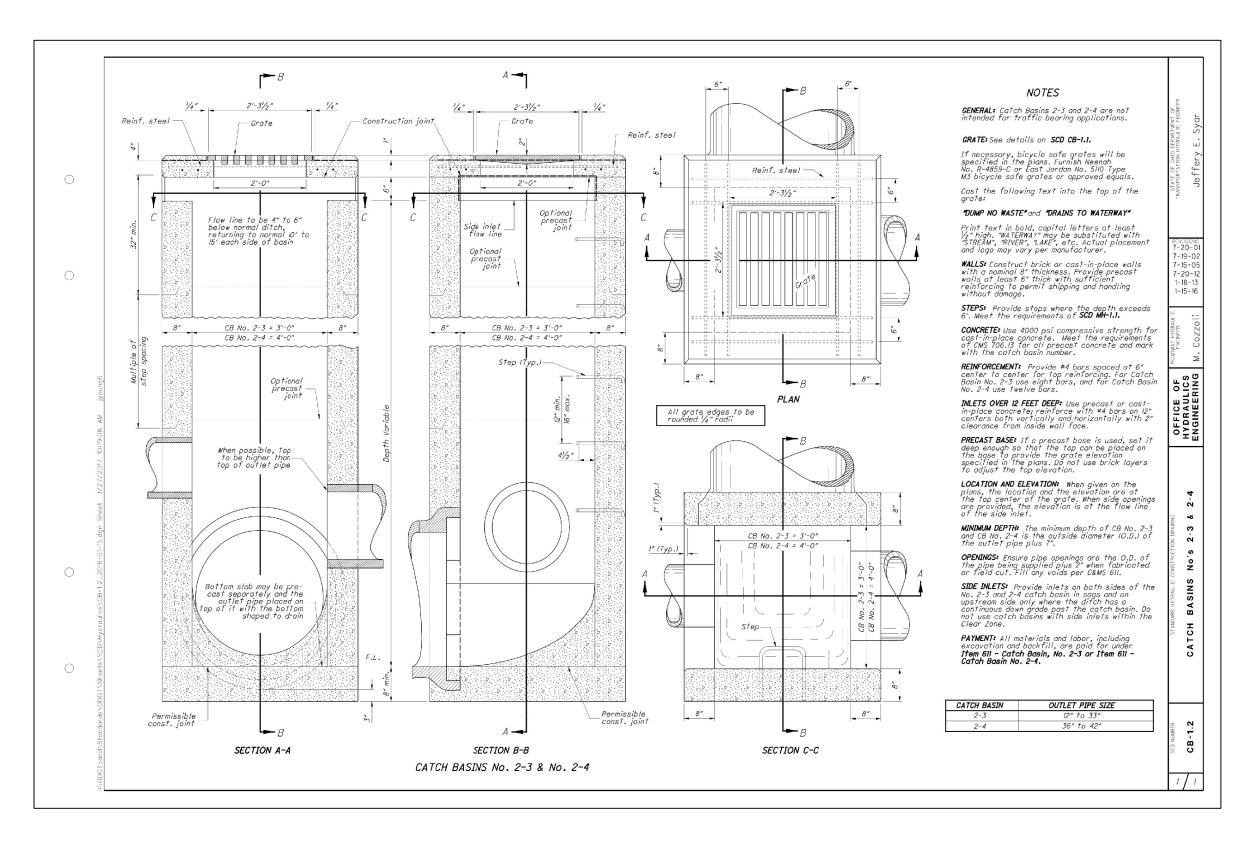
**COVER SHEET** 

NTS

05/14/2021 C101

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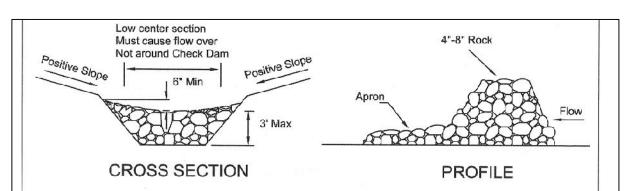




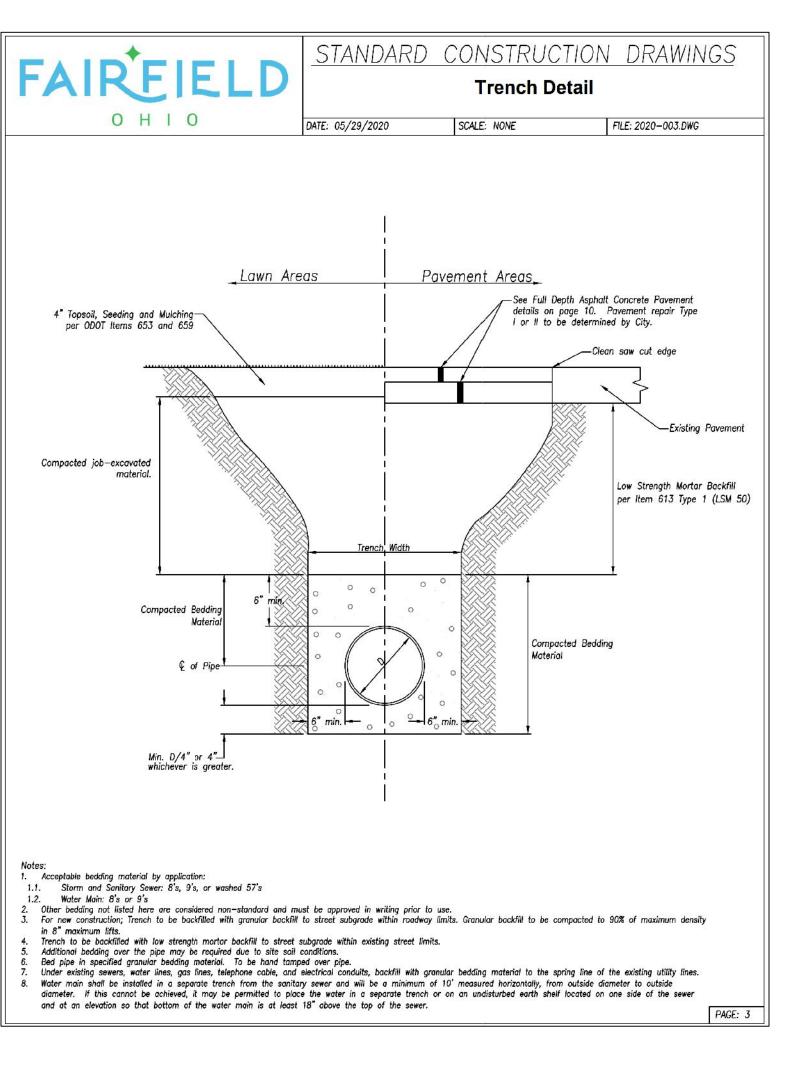


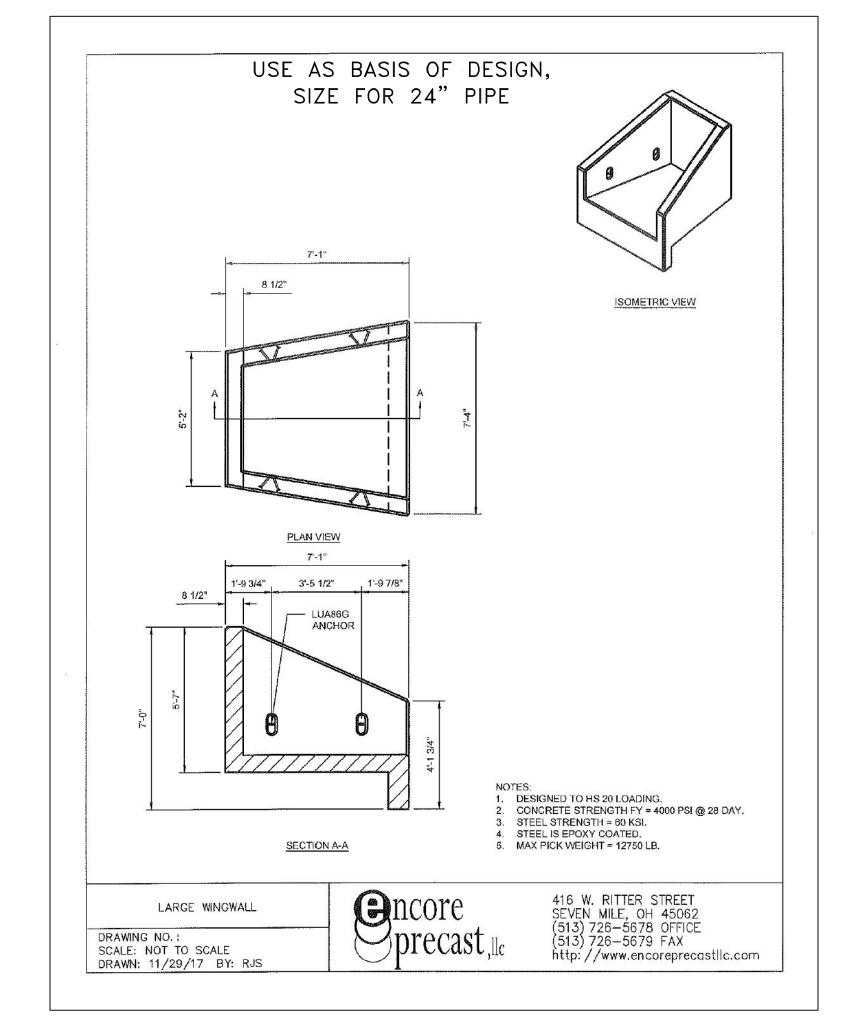
# **EROSION CONTROL NOTES**

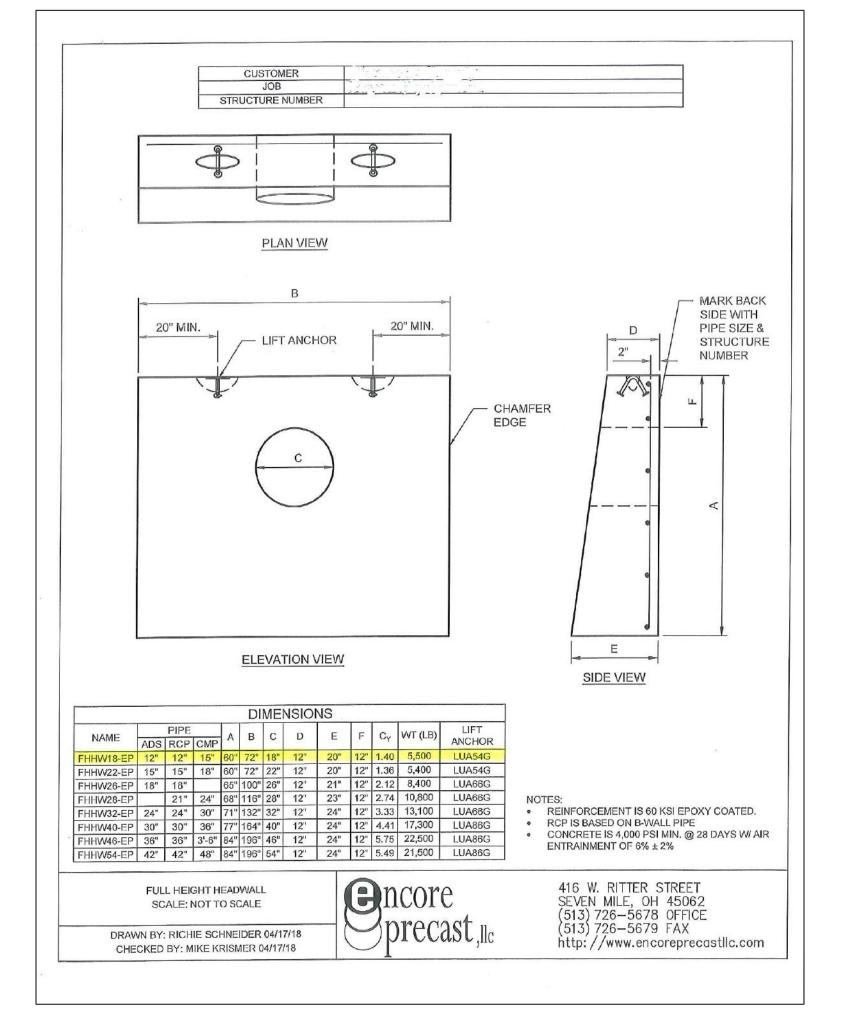
- See Sheet C102 for Proposed Grading and Erosion Control Plan
- See Sheet C104 for Erosion & Sediment Control (ESC) Notes & Details
- Maintenance of Erosion and Sediment Controls must reflect the timelines on Part III.G.2.i (inspections) on page 26 of 27 of the OEPA Construction General Permit for when practices require repair and maintenance, when practices fail to provide their intended function and when practices depicted on the SWPPP are not installed. This note supercedes any discrepancies created by notes on C104 related to maintenance and inspections.
- 4. Temporary erosion, sediment and debris control must be provided for at all catch basins, inlets and the inlet side of all new pipe openings, or equal.
- 5. Temporary erosion, sediment and debris control must be provided for at the outlet ditch, swale, watercourse or pipe. See approved plans for any other specific locations.
- In addition to any temporary erosion, sediment, and debris control details and notes shown on the plans, the developer shall construct temporary sediment basins, earth dikes, temporary or permanent seeding, mulching and/or mulch netting or any other generally accepted methods to prevent erosion, mud and debris from being deposited on other property, on newly constructed or existing roads, or into existing sewers or new sewers within the development. The developer shall continually monitor the construction progress and make any necessary temporary adjustments to maintain this control. Consideration should also be given to the "Dikes & Slope Protection" and "Sediment Basins and Dams" shown on Std. Drawing. MC-11 for use in temporary erosion, mud and debris control.
- Non-Sediment Pollution BMPs: No hazardous substances, solid or liquid waste, including building materials and concrete wash water, shall be discharged from the site. All necessary and appropriate BMPs shall be implemented to prevent the dischrage of pollutants.

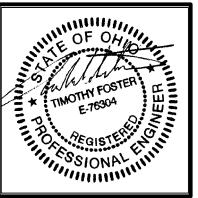


- The check dam shall be constructed of 4-8 inch diameter 6. A Splash Apron shall be constructed where check dams stone, placed so that it completely covers the width of the channel. ODOT Type D stone is acceptable, but should be underlain with a gravel filter consisting of ODOT No. 3 or 4 or suitable filter fabric.
- . Maximum height of check dam shall not exceed 3.0 feet. The midpoint of the rock check dam shall be a minimum of 6 inches lower than the sides in order to direct across
- the center and away from the channel sides. 4. The base of the check dam shall be entrenched approximately 6 inches.
- . Spacing of check dams shall be in a manner such that the toe of the upstream dam is at the same elevation as the top of the downstream dam.
- are expected to be in use for an extended period of time, a stone apron shall be constructed immediately downstream of the check dam to prevent flows from undercutting the structure. The apron should be 6 in. thick and its length two times the height of the dam.
- 7. Stone placement shall be performed either by hand or mechanically as long as the center of check dam is lower than the sides and extends across entire channel.
- 8. Side slopes shall be a minimum of 2:1.











| | Infrastructure || **D**evelopment ENGINEERING

**CINCINNATI OFFICE** 9338 CINCINNATI COLUMBUS RD WEST CHESTER, OHIO 45241 Tele: (513) 671-8144

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**DETAILS** 

1" = 60'

05/14/2021

20045A-62

1. PRE-CONSTRUCTION MEETING TO REVIEW THE PLAN AND CONSTRUCTION SEQUENCING BEFORE EARTHWORK IS PERMITTED 2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE(S) FOR CONSTRUCTION TRAFFIC. IF THE MAJORITY OF MUD OR DIRT IS NOT REMOVED FROM EXITING TRAFFIC, TEMPORARY WATER STORAGE TANKS WITH HOSES SHALL BE PROVIDED AT CONSTRUCTION TRAFFIC EXIT POINTS AND VEHICLE TIRES SHALL BE WASHED BEFORE EXITING ON PUBLIC ROADS. SILT FROM THIS WASHING OPERATION SHALL BE INTERCEPTED AND TRAPPED BEFORE WASHWATER IS ALLOWED TO BE DISCHARGED OFFSITE.

3. DUST ON SITE SHALL BE MINIMIZED BY SPRAYING WATER ON DRY AREAS OF THE SITE. THE USE OF OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED

4. INSTALL PERIMETER EROSION CONTROL MEASURES. INITIAL CLEARING AND GRUBBING TO GAIN ACCESS, AND INSTALLATION OF SILT FENCE, AS SHOWN ON PLANS. WITHIN SEVEN (7) DAYS OF CLEARING AND GRUBBING. INSTALL PERIMETER FILTER FABRIC FENCE AND BEGIN CLEARING &

GRUBBING. EXERCISE CARE NOT TO DAMAGE VALUABLE TREES OR DISTURB DESIGNATED BUFFER ZONES. 5. PERFORM CLEARING, GRUBBING, AND TOPSOIL STOCKPILING AS REQUIRED. CONSTRUCT ALL SEDIMENT BASINS, TRAPS, AND DIVERSIONS WITHIN 7 DAYS OF FIRST GRUBBING. INSTALL TREE PROTECTION FENCE IMMEDIATELY AFTER TREE CLEARING IS COMPLETE. CONTINUE LAND CLEARING AND GRADING WITH KEY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE. ONCE A SCHEDULED DEVELOPMENT AREA IS CLEARED, GRADING SHOULD FOLLOW IMMEDIATELY SO THAT PROTECTIVE GROUND COVER CAN BE REESTABLISHED QUICKLY. DO NOT LEAVE ANY AREA BARE AND EXPOSED FOR EXTENDED PERIODS. LEAVE ADJOINING AREAS PLANNED FOR DEVELOPMENT, OR TO BE USED FOR BORROW OR DISPOSAL,

UNDISTURBED FOR AS LONG AS POSSIBLE TO SERVE AS NATURAL BUFFER ZONES 6. IMMEDIATELY AFTER LAND CLEARING, APPLY SURFACE STABILIZATION ON GRADED AND OTHER DISTURBED AREAS. STABILIZE ANY DISTURBED AREA WHERE ACTIVE CONSTRUCTION WILL NOT TAKE PLACE FOR 30 WORKING DAYS BY TEMPORARY SEEDING AND/OR MULCHING OR BY OTHER SUITABLE MEANS. INSTALL PERMANENT STABILIZATION MEASURES IMMEDIATELY AFTER FINAL GRADING. TEMPORARY SEEDING AND/OR MULCHING

MAY BE NECESSARY IF WEATHER CONDITIONS DETERIORATE, WITH PERMANENT MEASURES DELAYED TEMPORARILY. 7. DURING EMBANKMENT OPERATIONS, TEMPORARY DIVERSION DITCHES/BERMS AND TEMPORARY SLOPE DRAINS SHOULD BE INSTALLED AT THE TOP

OF THE SLOPE TO MINIMIZE EROSION OF THE FILL FACE. 8. BEGIN SITE GRADING OPERATIONS AND CONSTRUCTION. INSTALL INLET PROTECTION FOR STORM DRAINS AS SOON AS THE DRAIN IS FUNCTIONAL TO TRAP SEDIMENT ON-SITE IN SHALLOW POOLS AND TO ALLOW FLOOD FLOWS TO SAFELY ENTER THE STORM DRAINAGE SYSTEM. 9. INSTALL ALL STORM SEWER PIPES AND UNDERGROUND UTILITY LINES AS SHOWN ON THE PLANS WITH APPROPRIATE EROSION CONTROL

MEASURES TO ELIMINATE SILTATION FROM ENTERING PIPE SYSTEMS. 10. WHEN APPLICABLE, INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT

11. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE. IF APPLICABLE, NOTE THAT EROSION CONTROL AROUND INLETS CANNOT BE REMOVED UNTIL PAVING OPERATIONS ARE COMPLETE.

12. INSTALL FINAL PAVEMENT AS SHOWN ON THE PLANS. 13. CARRY OUT FINAL GRADING, SEEDING, AND PLANTING. LANDSCAPING AND FINAL STABILIZATION IS THE LAST MAJOR CONSTRUCTION PHASE. ALL DISTURBED AREAS SHOULD HAVE PERMANENT MEASURES APPLIED WITHIN THIRTY (30) DAYS OF FINISHING FINAL GRADE. ALL TEMPORARY

STRUCTURES SHOULD BE REMOVED AFTER PERMANENT STRUCTURES ARE IN PLACE AND STABILIZED. BORROW/DISPOSAL AREAS SHOULD BE PERMANENTLY VEGETATED OR OTHERWISE STABILIZED. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION. 14. INSPECT STORM SEWERS PRIOR TO TURNOVER. REMOVE SEDIMENT AS NECESSARY.

15. REGULAR MAINTENANCE INSPECTION AND REPAIR OF EROSION AND SEDIMENT CONTROL DEVICES. MAINTENANCE: THE CONTRACTOR SHALL PLACE ALL SEDIMENTATION AND EROSION CONTROL FEATURES PRIOR TO STARTING CONSTRUCTION OPERATIONS IN A PARTICULAR AREA. IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF A BARRIER DURING CONSTRUCTION TO FACILITATE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE BARRIER SHALL BE IN PLACE IN THE EVENING OR DURING ANY INCLEMENT WEATHER. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL FEATURES USED ON THIS PROJECT. THE SITE SHALL BE INSPECTED PERIODICALLY AND WITHIN 24 HOURS OF A SIGNIFICANT RAINFALL. RECORDS OF THESE INSPECTIONS SHALL BE KEPT AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES, IF REQUESTED. ANY SEDIMENT OR DEBRIS WHICH HAS REDUCED THE EFFICIENCY OF A STRUCTURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE THE STRUCTURE OR FEATURE AT NO ADDITIONAL COST TO THE OWNER 16. PRE-WINTER STABILIZATION MEETING IF PROJECT IS TO BE THROUGH THE WINTER.

#### **EROSION CONTROL NOTES**

1. ALL PROPERTIES ADJACENT TO THE AREAS OF SOIL-DISTURBING ACTIVITY, INCLUDING BUT NOT LIMITED TO PRIVATE PROPERTIES, NATURAL AND ARTIFICIAL WATERWAYS, WETLANDS, STORM SEWERS AND PUBLIC LANDS, SHALL BE PROTECTED, TO THE MAXIMUM EXTENT PRACTICABLE, FROM SOIL EROSION AND SEDIMENT RUNOFF AND DRAINAGE.

2. CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PRACTICES USED TO SATISFY THIS REQUIREMENT SHALL CONFORM, AS A MINIMUM, TO STATE OF OHIO STANDARDS AS SET FORTH IN THE MOST CURRENT EDITION OF THE RAINWATER AND LAND DEVELOPMENT MANUAL, DEFINED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF SOIL AND WATER CONSERVATION AND NATURAL RESOURCE CONSERVATION SERVICE AND SHALL CONFORM TO THE MOST CURRENT OHIO ENVIRONMENTAL PROTECTION AGENCY, OHIO REVISED CODE CHAPTER 6111 REQUIREMENTS. 3. EROSION AND SEDIMENT CONTROL PLAN APPROVALS ISSUED IN ACCORDANCE WITH THESE RULES DO NOT RELIEVE THE OWNER OF RESPONSIBILITY FOR OBTAINING ALL OTHER NECESSARY PERMITS AND/OR APPROVALS FROM FEDERAL, STATE, AND/OR COUNTY AGENCIES ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE AND LOCAL OFFICIALS. IF REQUIREMENTS VARY, THE MOST STRINGENT

REQUIREMENTS SHALL BE FOLLOWED. 4. EROSION AND SEDIMENT CONTROL PRACTICES AT THE SITE AND AS IDENTIFIED IN THIS PLAN SHALL COMPLY WITH THE FOLLOWING:

B. LIMITS TO CLEARING AND GRADING, AS SHOWN ON THESE PLANS, SHALL BE CLEARLY MARKED ON SITE WITH SIGNAGE, FLAGGING, FENCING ETC. C. INSTALL EROSION AND SEDIMENT PERIMETER CONTROLS AS A FIRST ACTION OF CONSTRUCTION AS SPECIFIED BY CONSTRUCTION SEQUENCE. THIS SHALL INCLUDE AND IS NOT LIMITED TO PROTECTIVE BMP'S FOR STREAM CORRIDORS AND CROSSINGS, WETLANDS, SITE ENTRANCE, SEDIMENT TRAPS AND BASINS, BARRIERS, AND DIVERSION DIKES.

D. CONCENTRATED STORM WATER RUNOFF SHALL PASS THROUGH A SEDIMENT CONTROL DEVICE BEFORE EXITING THE SITE BOUNDARIES. CONCENTRATED RUNOFF FROM BARE SOIL AREAS SHALL BE DIVERTED INTO A SETTLING POND OR SEDIMENT CONTROL STRUCTURE. OR OTHER

APPROVED SEDIMENT BARRIER BEFORE LEAVING THE SITE. E. ANY AREAS THAT REQUIRE PERMANENT STABILIZATION AND THAT WILL LIE DORMANT FOR ONE (1) YEAR OR MORE WILL REQUIRE THE APPLICATION OF EROSION CONTROL WITHIN SEVEN (7) DAYS OF THE MOST RECENT DISTURBANCE.

F.ANY AREAS THAT REQUIRE PERMANENT STABILIZATION AND THAT WILL BE WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE WILL REQUIRE THE APPLICATION OF EROSION CONTROL WITHIN TWO (2) DAYS OF REACHING FINAL GRADE. G. STORM SEWER INLETS SHALL BE PROTECTED SO THAT SEDIMENT-LADEN RUNOFF WILL NOT ENTER THE STORM SEWER SYSTEM WITHOUT FIRST

BEING FILTERED AND/OR TREATED. H. ANY OTHER AREAS THAT REQUIRE PERMANT STABILIZATION AT FINAL GRADE WILL REQUIRE THE APPLICATION OF EROSION CONTROL WITHIN

SEVEN (7) DAYS OF REACHING FINAL GRADE WITHIN THAT AREA. I. SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED TO PREVENT SOIL LOSS. STABILIZATION SHALL BE REQUIRED IF STOCKPILES ARE LOCATED WITHIN CRITICAL AREAS NEAR STREAMS OR WETLANDS, OR IF SEDIMENT FROM STOCKPILES WILL OTHERWISE LEAVE THE SITE.

J. UNSTABLE SOILS PRONE TO SLIPPING OR SLOUGHING SHALL NOT BE CLEARED, GRADED, EXCAVATED, FILLED OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS PLANNED BY A QUALIFIED PROFESSIONAL ENGINEER AND INSTALLED IN ACCORDANCE WITH THIS PLAN. CUT AND FILL SLOPES SHOULD BE DESIGNED TO MINIMIZE EROSION PROBLEMS. ADEQUATE SLOPE DESIGN INCLUDES USE OF ROUGH SOIL SURFACE ALONG THE FACE OF THE SLOPE, WATER DIVERSION ALONG THE TOP OF THE SLOPE AWAY FROM THE FACE, TERRACES TO REDUCE SLOPE LENGTH, DELIVERY OF CONCENTRATED STORM WATER FLOWS TO THE BASE OF THE SLOPE VIA ADEQUATE CHANNEL OR PIPE, AND DRAINAGE FOR WATER SEEPS IN THE SLOPE THAT ENDANGER SLOPE STABILITY.

K. SOIL SHALL BE REMOVED FROM PAVED SURFACES AND/OR PUBLIC ROADS AT THE END OF EACH DAY IN SUCH A MANNER THAT DOES NOT CREATE OFF-SITE SEDIMENTATION, IN ORDER TO ENSURE SAFETY AND ABATE OFF-SITE SOIL LOSS. COLLECTED SEDIMENTS SHALL BE PLACED IN A STABLE LOCATION ON SITE OR TAKEN OFF-SITE TO A STABLE LOCATION.

L. DISTURBED OR MODIFIED DRAINAGE WAYS SHALL BE STABILIZED. EROSION EFFECTS OF STORM WATER RUNOFF SHALL BE REDUCED BY USING AND/OR MAINTAINING GRASSED SWALES, INFILTRATION STRUCTURES OR WATER DIVERSIONS.

M. SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL EVENT. A WRITTEN LOG OF THESE INSPECTIONS AND IMPROVEMENTS TO CONTROLS SHALL BE KEPT ON SITE. THE INSPECTIONS SHALL INCLUDE THE DATE OF INSPECTION, NAME OF INSPECTOR, WEATHER CONDITIONS, ACTIONS TAKEN TO CORRECT ANY PROBLEMS AND THE DATE CORRECTIVE ACTIONS WERE TAKEN.

N. ANY AREAS THAT REQUIRE TEMPORARY STABILIZATION AND THAT WILL BE WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE WILL REQUIRE THE APPLICATION OF EROSION CONTROL WITHIN TWO (2) DAYS OF THE MOST RECENT DISTURBANCE OF THE AREA IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS.

O. FOR ALL CONSTRUCTION ACTIVITIES, ANY AREAS THAT REQUIRE TEMPORARY STABILIZATION FOR A DISTURBED AREA THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE (1) YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE WILL REQUIRE THE APPLICATION OF EROSION CONTROL WITH SEVEN (7) DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABALIZED AT LEAST SEVEN (7) DATS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).

P. ANY AREAS REQUIRE TEMPORARY STABILIZATION THAT WILL BE IDLE OVER WINTER WILL REQUIRE THE APPLICATION OF EROSION CONTROL PRIOR TO THE ONSET OF WINTER WEATHER. Q. RESERVED.

R. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

S. OFF-SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD(S) NOTED ON THE PLAN. T. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO RAINWATER AND LAND

DEVELOPMENT MANUAL (CURRENT EDITION). U. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.

V. WINTERIZATION - RESERVED.

W. CONCRETE CEMENT IS TO BE TAKEN BACK TO PLANT FOR WASHOUT AND RECYCLING.

THE PLAN FOR THIS PROJECT IS COMPOSED OF THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT, INCLUDING ALL REQUIREMENTS THEREIN, THE PROJECT CONSTRUCTION DRAWINGS, AND ALL SUPPLEMENTAL INFORMATION INCLUDED/ADDED BY THE CONTRACTOR(S). THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.

EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SPECIFIED ON THESE PLAN MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH-DISTURBING ACTIVITY.

#### SITE DESCRIPTION

A. 6.40 ACRES, EARTHWORK FOR A NEW DEVELOPMENT.

B. TOTAL AREA OF SITE - 6.40 ACRES

TOTAL AREA DISTURBED/DEVELOPED - 6.40 ACRES

C. PRE-CONSTRUCTION WEIGHTED C COEFFICIENT - 0.30 POST-CONSTRUCTION WEIGHTED C COEFFICIENT - 0.30 IMPERVIOUS AREA CREATED BY CONSTRUCTION ACTIVITY - 0.00 ACRES PERCENT SITE IMPERVIOUS - 0%

EXISTING SOILS ARE AS IDENTIFIED IN PRELIMINARY GEOTECHNICAL REPORT PROVIDED SEPARATELY.

SITE IS CURRENTLY UNOCCUPIED.

G. UTILITY AND GRADING ACTIVITY STARTING JUNE 2021 WITH TYPICAL CONSTRUCTION METHODS. H. RECEIVING STREAM - UNNAMED TRIBUTARY TO MILL CREEK. STORM WATER IN OPEN CHANNEL.

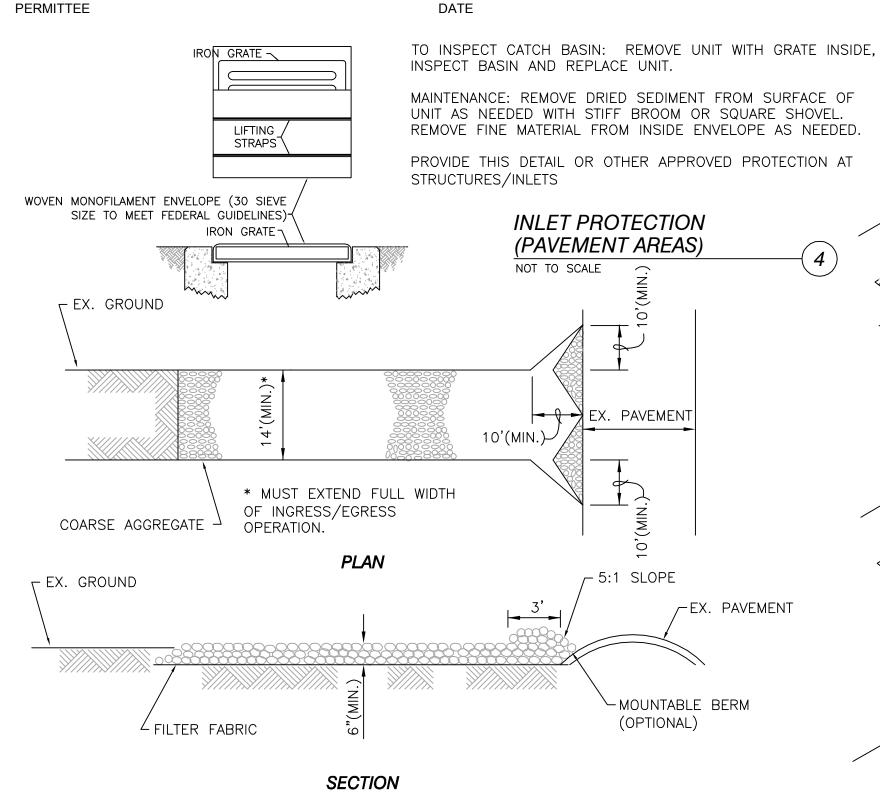
#### CONTRACTOR/CONSTRUCTION MANAGER RESPONSIBILITY

THE GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.

B. THE PLAN, INCLUDING COPIES OF THE NOI, THE LETTER GRANTING PERMIT COVERAGE AND THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT SHALL BE MAINTAINED ON-SITE FOR THE DURATION OF THE PROJECT. THE ESC MUST BE SIGNED BY THE PERMITTEE OR A DULY AUTHORIZED REPRESENTATIVE, AS DEFINED IN THE GENERAL PERMIT (PART V.G).

#### CERTIFICATION

I HEREBY CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.



### **CONSTRUCTION SPECIFICATIONS**

WITH 5:1 SLOPES WILL BE PERMITTED.

1. STONE SIZE - USE 2" STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT.

2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 70' LONG.

3. THICKNESS - NOT LESS THAN 6". 4. WIDTH - 14' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS

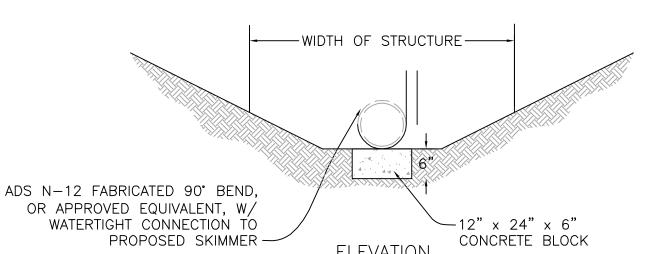
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND & REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO

PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY. 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH

9. PERIODIC INSPECTION & NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN. 10. GROUND USED FOR THE TEMPORARY CONSTRUCTION DRIVE NEEDS TO BE RETURNED TO THE ORIGINAL CONDITION OR BETTER.

> *TEMPORARY* CONSTRUCTION ENTRANCE



REFER TO SEDIMENT

BASIN NOTE ON

SHEET C102 FOR

ELEVATIONS AND

DRAWDOWN SIZING

FAIRCLOTH SKIMMER

2.5" SKIMMER AND

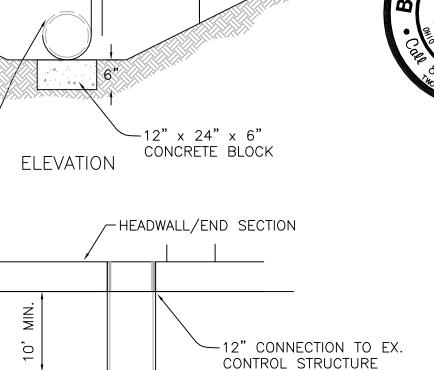
2.5" HEAD

2-7 DAY DRAWDOWN

12,468-43,638 CF

- 2" X 2" STAKE, 42" LONG

(SHARPENED)



TEMPORARY SEDIMENT CONTROL BARRIER SHALL BE INSTALLED WHERE INDICATED & SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE & PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED. SEDIMENT SHALL BE REMOVED FROM TEMPORARY SEDIMENT BASIN BEFORE 40% CAPACITY IS REACHED (ELEVATION 499). UNDER NO CIRCUMSTANCES SHALL TEMPORARY SEDIMENT BASINS BE PUMPED OR DRAINED INTO THE EXISTING DRAINAGE WAY OR EXISTING STORM SYSTEM WITHOUT PROPER FILTERING TO PREVENT SEDIMENT FROM POLLUTING EXISTING DRAINAGE SYSTEMS. ONCE THE SITE IS 80% PERMANENTLY STABILIZED, THE SEDIMENT BARRIER & ACCUMULATED SEDIMENT SHALL BE REMOVED; THE AREA BROUGHT TO FINAL GRADE, SEEDED & MULCHED; & THE HEADWALL/END SECTION RESTORED.



@ EX. LOWEST ENTRANCE

(TEMPORARILY SEAL

OTHER STRUCTURE

OPENINGS)

SILT FENCE: THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRIC. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36". HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

2. 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 CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, & SECURELY SEALED.

3. POSTS SHALL BE SPACED A MAXIMUM OF 10' APART AT THE BARRIER LOCATION & DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12". WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6'.

4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE & 4" DEEP ALONG THE LINE OF POSTS & UP-SLOPE FROM THE BARRIER.

5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UP-SLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1" LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" & SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.

6. STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, & 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

7. WHEN EXTRA STRENGTH FILTER FABRIC & CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.

8. THE TRENCH SHALL BE BACKFILLED & SOIL COMPACTED OVER THE FILTER

9. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UP-SLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

### MAINTENANCE:

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

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE & THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED & SEEDED.

SEDIMENT FENCE







INFRASTRUCTURE **D**EVELOPMENT **L**NGINEERING

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**EROSION AND** SEDIMENT CONTROL **DETAILS** 

NTS

05/14/2021

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