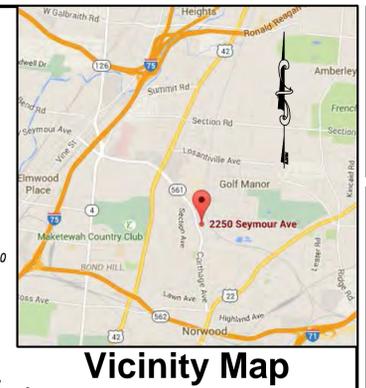
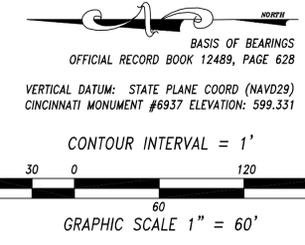


3. Site Work Package – Construction Plans (CD101 – CD105)

Final For Construction completed by IDE – June 8, 2018

2250 SEYMOUR AVE. SITE PREPARATION

EXISTING SITE



CINCINNATI OFFICE
 2451 CROWNE POINT DR
 CINCINNATI, OH 45241
 Phone: (513) 671-8144
 Fax: (513) 671-8150



PLANS BY:
 INFRASTRUCTURE
 & DEVELOPMENT
 ENGINEERING, INC.
 TIMOTHY FOSTER, PE
 2451 CROWNE POINT DR.
 CINCINNATI, OH 45241
 (513) 671-8144 X105

OWNER:
 PORT OF GREATER CINCINNATI
 DEVELOPMENT AUTHORITY
 TOM LEIBHAM/JULIE BANNER
 3 E. 4TH ST., STE. 300
 CINCINNATI, OH 45202
 (513) 632-3767

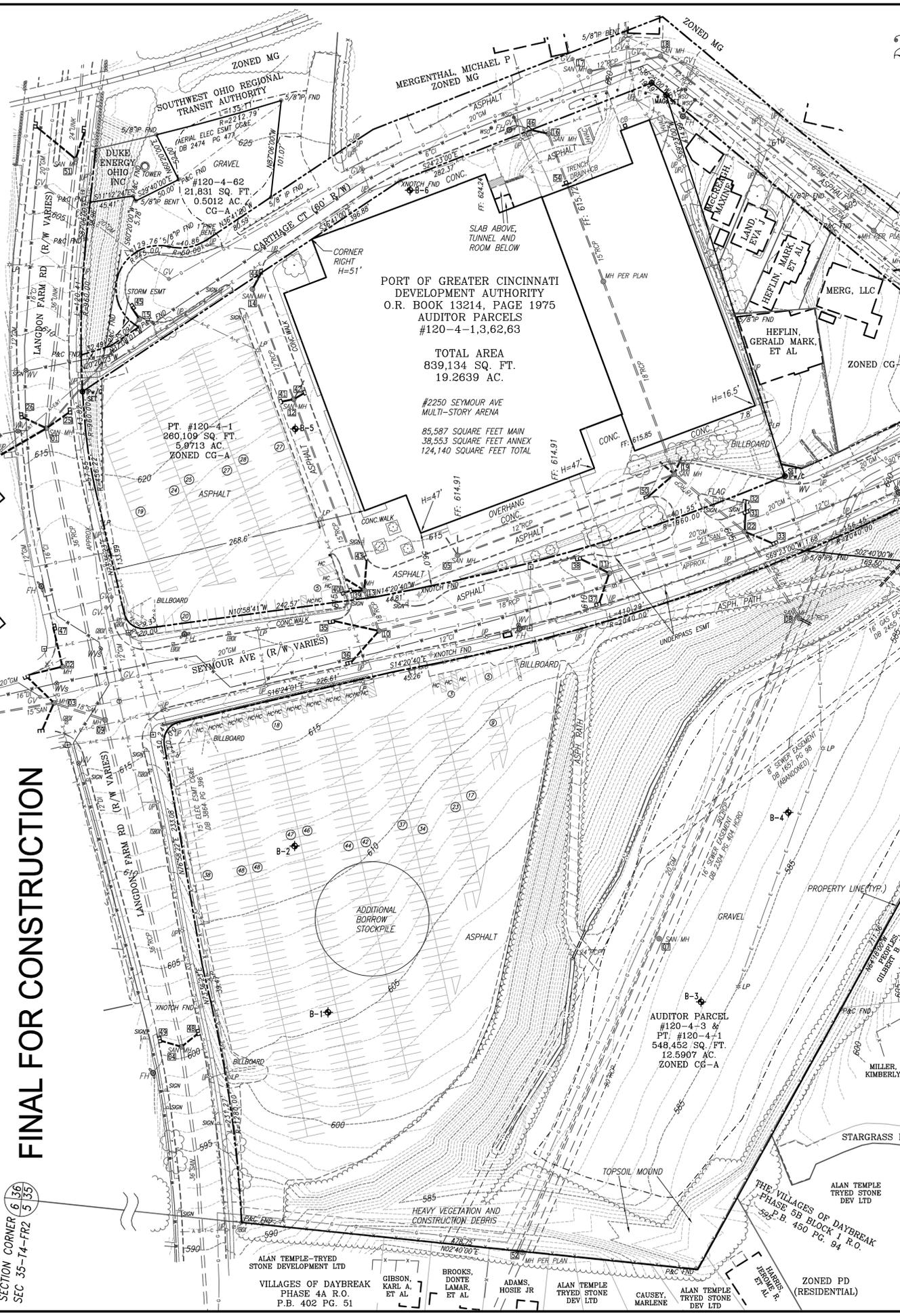
PROJECT SUMMARY	
TOTAL PARCEL ACREAGE	18.76 AC
EXISTING IMPERVIOUS AREA	13.43 AC
EXISTING % IMPERVIOUS	72 %
SITE DISTURBANCE AREA	13.70 AC
NEW/REMAINING IMPERVIOUS	0 AC.
PROPOSED % IMPERVIOUS	0 %
PROPOSED PARKING SPACES	NONE
EXISTING USE - ARENA + PARKING	
PROPOSED USE - VACANT LAND	

- SHEET CD101 - COVER & EXISTING SITE
- SHEET CD102 - SITE DEMOLITION PLAN
- SHEET CD103 - GRADING & LAYOUT PLAN
- SHEET CD104 - SITE & DRAINAGE DETAILS
- SHEET CD105 - EROSION & SEDIMENT DETAILS

- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--|---|--|--|--|--|--|---|---|--|---|---|--|---|--|---|---|---|---|---|---|--|--|---|--|--|--|---|---|---|--|--|---|--|--|---|---|--|--|--|---|--|--|--|--|--|---|
| 01 SAN MH RIM 613.79
12" RCP (S) 606.97
12" RCP (SE) 603.89
12" RCP (NE) 606.49
12" RCP (NW) 602.86
36" RCP (E,W) 592.98 | 02 SAN MH RIM 619.07
12" PVC (N) 612.79
12" PVC (E) 612.84 | 03 SAN MH RIM 617.02
18" UNK (SW) 600.47
15" UNK (N) 600.47 | 04 SAN MH RIM 600.59
36" RCP (E,W) 584.34
12" RCP (NE) 595.54
12" RCP (SE) 594.19 | 05 SAN MH RIM 613.77
8" VCP (NE) 606.67
6" VCP (E) 607.92
12" RCP (S) 606.39 | 06 SAN MH RIM 594.86
84" RCP (N,S) 576.26
12" RCP (SE) 585.33
12" RCP (SW) 585.31
21" RCP (S) 579.34 | 07 SAN MH RIM 581.55
90" RCP (E,W) 561.77 | 08 SAN MH RIM 588.59
90" RCP (E,W) 566.49
21" RCP (NE) 570.43
ALSO 582.09 (UNK)
21" RCP (SW) 575.76
ALSO 581.84 (UNK) | 09 SAN MH RIM 616.28
36" RCP (E,W) 591.15
18" UNK (NE) | 10 SAN MH RIM 614.07
18" RCP (S) 604.17
18" RCP (E) 604.97
12" RCP (NE) 606.72
12" RCP (NW) 606.84 | 11 SAN MH RIM 609.20
12" RCP (NE) 602.60
15" RCP (SW) 602.63
18" RCP (N) 597.00 (DROP)
21" UNK (S) 585.87 | 12 SAN MH RIM 619.07
12" RCP (E) 613.02
8" VCP (SE) 613.42
12" RCP (S) 614.49
12" RCP (N) 614.47± | 13 SAN MH RIM 613.90
12" RCP (NE) 608.58
12" RCP (SE) 609.65
15" RCP (E) 608.60
12" VCP (N) 609.65
18" RCP (W) 608.00 | 14 SAN MH RIM 622.77
12" RCP (W) 615.84
12" RCP (SE) 616.77 | 15 SAN MH RIM 622.80
15" RCP (W) 610.06 (PLAN)
12" RCP (NE) | 16 SAN MH RIM 621.13
12" RCP (S) 612.34 | 17 SAN MH RIM 617.38
12" RCP (N,SW) 608.51 | 18 SAN MH RIM 609.09
12" RCP (N) 600.84
12" RCP (NE) 602.72
12" RCP (NW) 602.74
18" RCP (NW) 602.59
18" RCP (E) 601.44
18" RCP (SW) 600.39 | 19 SAN MH RIM 596.32
12" RCP (NE) 589.96
12" RCP (NW) 586.82
18" RCP (E) (PER PLAN)
84" RCP (S) 570.67
90" RCP (N) 570.67
60" RCP (SE) (PER PLAN) | 20 SAN MH RIM 592.69
12" RCP (NE) 584.44
15" RCP (SW) 584.49
12" RCP (E) 576.26
84" RCP (N,S) 573.48
15" RCP (SE) 584.39 | 21 SAN MH RIM 604.77
18" RCP (NE) 589.77
12" RCP (SE) 597.65
12" RCP (SW) 597.07
21" RCP (W,N) 581.14 | 22 SAN MH RIM 612.41
12" RCP (NW) 609.26 | 23 SAN MH RIM 622.99
12" RCP (SW) 609.67 | 24 SAN MH RIM 622.80
12" RCP (SE) 593.43 | 25 SAN MH RIM 621.44 (BOLTED)
15" RCP (W) 610.06 (PLAN)
12" RCP (NE) | 26 SAN MH RIM 621.13
12" RCP (S) 612.34 | 27 SAN MH RIM 617.38
12" RCP (N,SW) 608.51 | 28 SAN MH RIM 609.09
12" RCP (N) 600.84
12" RCP (NE) 602.72
12" RCP (NW) 602.74
18" RCP (NW) 602.59
18" RCP (E) 601.44
18" RCP (SW) 600.39 | 29 SAN MH RIM 600.84
12" RCP (NE) 602.72
12" RCP (NW) 602.74
18" RCP (NW) 602.59
18" RCP (E) 601.44
18" RCP (SW) 600.39 | 30 SAN MH RIM 602.62
36" UNK (W) (PER PLAN)
24" UNK (E) (PER PLAN) | 31 SAN MH RIM (NOT FOUND)
90" RCP (E,W) (PER PLAN) | 32 SAN MH RIM 613.87
12" RCP (SW) 610.67 | 33 SAN MH RIM 613.97
12" RCP (SE) 608.52 | 34 STM DGI GRATE 609.30
12" RCP (SE) 604.18 | 35 STM DGI GRATE 609.31
12" RCP (SW) 606.31 | 36 STM SGI GRATE 613.86
10" PVC (N) 611.38
12" VCP (S) 609.96 | 37 STM CB GRATE 615.07
10" PVC (S) 612.77 | 38 STM SGI GRATE 618.63
12" RCP (S) (SILTED FULL) | 39 STM SGI GRATE 618.71
12" VCP (N) 615.16 | 40 STM SGI GRATE 614.28
12" RCP (W) 610.43 | 41 STM SGI GRATE 622.99
12" RCP (NW) 619.34 | 42 STM DGI GRATE 621.97
12" RCP (SW) 619.37 | 43 STM SGI GRATE 621.95
12" RCP (SW) 617.07 | 44 STM DGI GRATE 616.66
12" PVC (W) 613.96 | 45 STM DGI GRATE 600.89
12" RCP (NW) 596.74 | 46 STM DGI GRATE 600.63
12" RCP (SW) 597.83 | 47 STM SGI GRATE 609.74
12" VCP (SE) 605.47 | 48 SAN MH RIM 602.62
36" UNK (W) (PER PLAN)
24" UNK (E) (PER PLAN) | 49 SAN MH RIM (PER PLAN)
21" RCP (N) (PER PLAN) | 50 STM CB GRATE 615.27
6" VCP (NE,W) 613.02
BOTTOM 611.27 |
|---|--|---|--|---|--|--|--|--|--|---|---|--|---|---|--|---|--|---|---|---|---|---|---|--|--|---|--|--|--|---|---|---|--|--|---|--|--|---|---|--|--|--|---|--|--|--|--|--|---|

- GENERAL NOTES:**
- TOPOGRAPHY BASED UPON ACCU-AIR SURVEYS, INC. FLOWN 5-31-16 AND SUPPLEMENTED WITH GROUND FIELD LOCATED POINTS.
 - UNDERGROUND UTILITIES ARE SHOWN 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 OUPS BEFORE ANY CONSTRUCTION ACTIVITY.

- OPERATIONAL PLAN**
- INGRESS AND EGRESS TO THE SITE**
 - CONSTRUCTION ENTRANCES WILL BE VIA EXISTING CURB CUTS ON SEYMOUR AVE AND CARTHAGE CT.
 - HOURS OF OPERATION**
 - CONSTRUCTION WILL BE BETWEEN THE HOURS OF 7AM-6PM, MONDAY THROUGH FRIDAY
 - METHODS OF NON-OFFENSIVE OPERATIONS**
 - OPERATIONS WILL BE LIMITED TO NON-OFFENSIVE METHODS, CONTRACTOR TO ADDRESS
 - DURATION OF THE PROJECT**
 - CONSTRUCTION OPERATIONS WILL BEGIN IN SEPT. 2017 AND COMPLETE IN JUNE 2018.



FINAL FOR CONSTRUCTION

SECTION CORNER
 SEC 35-14-FR2
 6 36
 5 35

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REVISIONS:
 SITE WORK PACKAGE - 072817
 CITY COMMENTS - 082518
 CONSTRUCTION - 042618
 ADDENDA REVISION - 060818

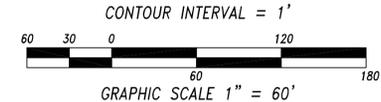
PORT OF GREATER CINCINNATI
 DEVELOPMENT AUTHORITY
 2250 SEYMOUR AVE
 HAMILTON COUNTY
 CINCINNATI, OH 45212

COVER &
 EXISTING SITE
 Scale: 1" = 60'
 Date: 03/27/17
 Sheet No. 1 of 5
CD101
 Project No.
 16045A-32

GRADING & LAYOUT PLAN

FINAL FOR CONSTRUCTION

BASIS OF BEARINGS
OFFICIAL RECORD BOOK 12489, PAGE 628
VERTICAL DATUM: STATE PLANE COORD (NAV29)
CINCINNATI MONUMENT #6937 ELEVATION: 599.331



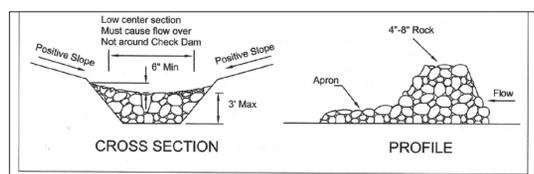
GRADING NOTES:

- FILL MATERIAL FOR SITE WILL BE SUITABLE SOIL PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. FILL SHALL BE 98% COMPACTED BY CONTRACTOR AND TESTED BY OWNER'S REPRESENTATIVES DURING CONSTRUCTION IN NO MORE THAN 8" LIFTS PER THE GEOTECHNICAL REPORT.
- ALL ASPHALT CONTENT MUST BE REMOVED BUT STONE/GRAVEL MAY BE REUSED AS FILL IF DEEMED TO BE SUITABLE MATERIAL.
- IN AREAS OF DEMOLITION PLAN WHERE 6" GRAVEL IS TO BE REMOVED, PROOFROLL SUBGRADE AFTER REMOVAL. IF NEEDED, REMOVE AND REPLACE UNSUITABLE MATERIAL WITH SUITABLE MATERIAL PER GEOTECHNICAL REPORT AND COMPACT. PROVIDE FINAL 6" LAYER OF SOIL AND COMPACT TO RETURN TO EXISTING GRADE (GRADE TO DRAIN WHERE NEEDED) AND PROVIDE SEEDING AND STABILIZATION PER CD105 AND PROJECT SPECIFICATIONS.
- IN AREAS OF DEMOLITION PLAN WHERE ASPHALT IS TO BE REMOVED AND FINAL GRADE REQUIRES FILL, REMOVE ASPHALT (MINIMUM OF 2" BUT ASSUME UP TO 6"), PROOFROLL SUBGRADE. IF NEEDED, REMOVE AND REPLACE UNSUITABLE MATERIAL WITH SUITABLE MATERIAL PER GEOTECHNICAL REPORT AND COMPACT. PROVIDE FINAL 6" SOIL LAYER AND COMPACT TO MEET PROP. GRADE AND PROVIDE SEEDING AND STABILIZATION PER CD105 AND PROJECT SPECIFICATIONS.
- IN AREAS OF DEMOLITION PLAN WHERE ASPHALT IS TO BE REMOVED AND FILL IS NOT NECESSARY, REMOVE ASPHALT (MINIMUM OF 2" BUT ASSUME UP TO 6") AND CUT TO NECESSARY GRADE CONSIDERING THAT FINAL 6" SOIL LAYER MUST BE ADDED TO MEET FINAL PROPOSED GRADES. PROOFROLL SUBGRADE. IF NEEDED, REMOVE AND REPLACE UNSUITABLE MATERIAL WITH SUITABLE MATERIAL PER GEOTECHNICAL REPORT AND COMPACT. PROVIDE FINAL 6" SOIL LAYER AND COMPACT TO MEET PROP. GRADE AND PROVIDE SEEDING AND STABILIZATION PER CD105 AND PROJECT SPECIFICATIONS.
- THE ONLY AREAS TO HAVE 6" OF TOPSOIL FOR THE FINAL 6" SOIL LAYER ARE THE FINAL HILLSIDE SLOPES AND SWALES AS LABELED ON THE DRAWINGS. ALL OTHER 6" SOIL LAYERS ARE SUITABLE SOIL FILL.
- PROVIDE EROSION CONTROL BLANKETS ON 3:1 FINAL HILL SLOPES AND ON 3:1 SLOPES FOR SEDIMENT BASINS AND SWALES.

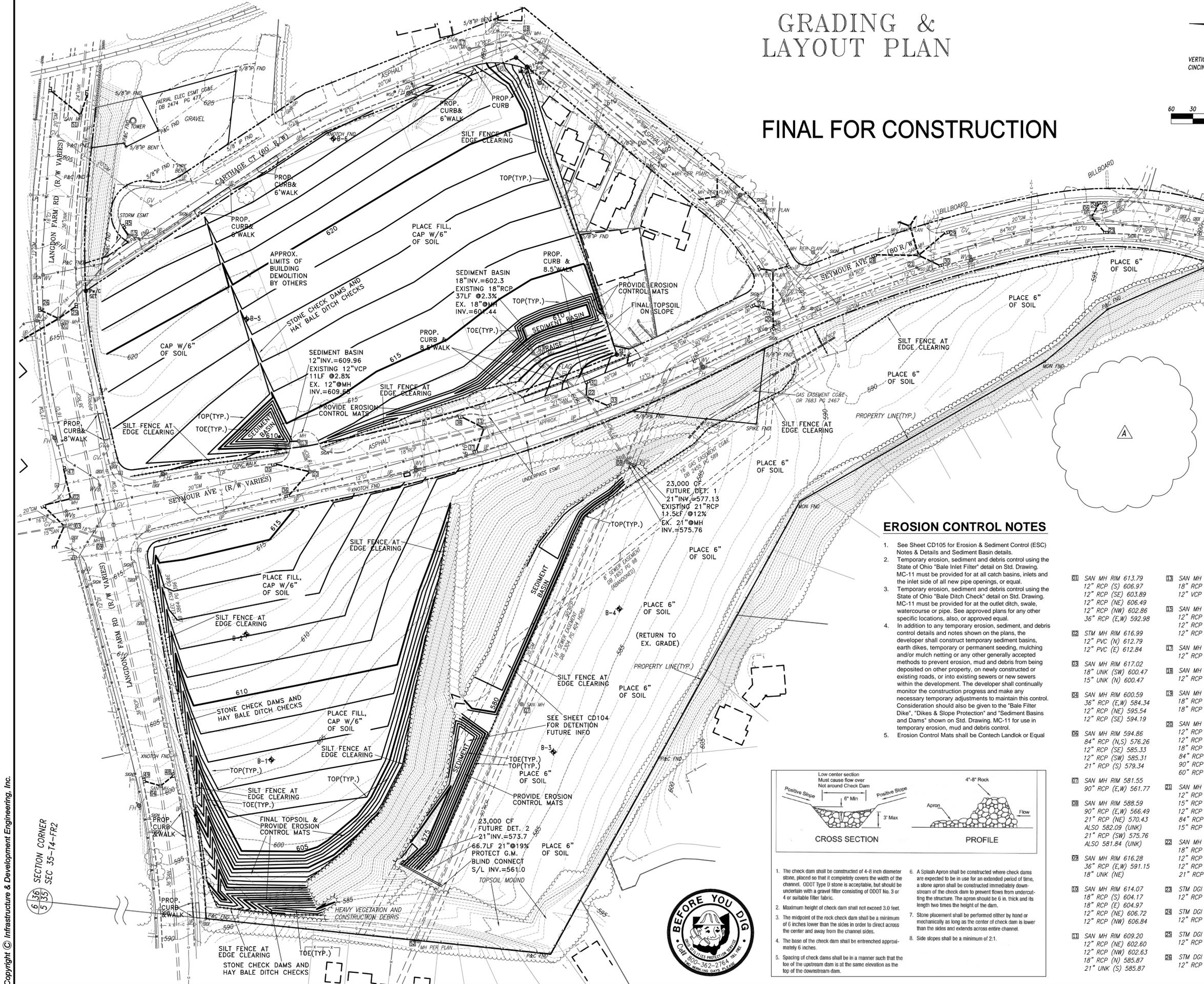
EROSION CONTROL NOTES

- See Sheet CD105 for Erosion & Sediment Control (ESC) Notes & Details and Sediment Basin details.
- Temporary erosion, sediment and debris control using the State of Ohio "Bale Inlet Filter" detail on Std. Drawing. MC-11 must be provided for all catch basins, inlets and the inlet side of all new pipe openings, or equal.
- Temporary erosion, sediment and debris control using the State of Ohio "Bale Ditch Check" detail on Std. Drawing. MC-11 must be provided for at the outlet ditch, swale, watercourse or pipe. See approved plans for any other specific locations, also, or approved equal.
- 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 "Bale Filter Dike", "Dikes & Slope Protection" and "Sediment Basins and Dams" shown on Std. Drawing. MC-11 for use in temporary erosion, mud and debris control.
- Erosion Control Mats shall be Contech Landlok or Equal

01 SAN MH RIM 613.79 12" RCP (S) 606.97 12" RCP (SE) 603.89 12" RCP (NE) 606.49 12" RCP (NW) 602.86 36" RCP (E,W) 592.98	02 STM MH RIM 616.99 12" PVC (N) 612.79 12" PVC (E) 612.84	03 SAN MH RIM 617.02 18" UNK (SW) 600.47 15" UNK (N) 600.47	04 SAN MH RIM 600.59 36" RCP (E,W) 584.34 12" RCP (NE) 595.54 12" RCP (SE) 594.19	05 SAN MH RIM 594.86 84" RCP (N,S) 576.26 12" RCP (SE) 585.33 12" RCP (SW) 585.31 21" RCP (S) 579.34	06 SAN MH RIM 581.55 90" RCP (E,W) 561.77	07 SAN MH RIM 588.59 90" RCP (E,W) 566.49 21" RCP (NE) 570.43 ALSO 582.09 (UNK) 21" RCP (SW) 575.76 ALSO 581.84 (UNK)	08 SAN MH RIM 616.28 36" RCP (E,W) 591.15 18" UNK (NE)	09 SAN MH RIM 614.07 18" RCP (S) 604.17 18" RCP (E) 604.97 12" RCP (NE) 606.72 12" RCP (NW) 606.84	10 SAN MH RIM 609.20 12" RCP (NE) 602.60 12" RCP (NW) 602.63 18" RCP (N) 585.87 21" UNK (S) 585.87	11 SAN MH RIM 613.90 18" RCP (W) 608.00 12" VCP (N) 609.65	12 SAN MH RIM 622.80 12" RCP (E) 614.95 12" RCP (NW) 609.90 12" RCP (SE) (STUB)	13 SAN MH RIM 621.13 12" RCP (S) 612.34	14 SAN MH RIM 617.38 12" RCP (N,SW) 608.51	15 SAN MH RIM 612.00 18" RCP (SW) 600.39 18" RCP (E) 601.44	16 SAN MH RIM 596.32 12" RCP (NE) 586.86 12" RCP (NW) 586.82 18" RCP (E) (PER PLAN) 84" RCP (S) 570.67 90" RCP (N) 570.67 60" RCP (SE) (PER PLAN)	17 SAN MH RIM 592.69 12" RCP (NE) 584.44 15" RCP (SW) 584.49 12" RCP (E) 576.26 84" RCP (N,S) 573.48 15" RCP (SE) 584.39	18 SAN MH RIM 604.77 18" RCP (NE) 589.77 12" RCP (SE) 597.65 12" RCP (SW) 597.07 21" RCP (W,N) 581.14	19 STM DGI GRATE 594.41 18" RCP (S) 604.17 18" RCP (E) 604.97 12" RCP (NE) 606.72 12" RCP (NW) 606.84	20 STM DGI GRATE 594.45 12" RCP (NW) 591.72	21 STM DGI GRATE 612.41 12" RCP (NE) 609.26	22 STM DGI GRATE 612.67 12" RCP (SW) 609.67	23 STM DGI GRATE 596.43 12" RCP (SW) 593.43	24 STM DGI GRATE 592.54 12" RCP (S) 589.54	25 STM DGI GRATE 591.89 15" RCP (NW) 588.89	26 STM DGI GRATE 591.99 15" RCP (NE) 586.19	27 STM DGI GRATE 604.09 12" RCP (W) 600.34 12" RCP (E) 600.69	28 STM DGI GRATE 603.03 12" RCP (NE) 597.93	29 STM DGI GRATE 596.05 12" RCP (E) 590.05	30 STM DGI GRATE 613.87 12" RCP (E) (PER PLAN) 84" RCP (S) 570.67 90" RCP (N) 570.67 60" RCP (SE) (PER PLAN)	31 STM DGI GRATE 613.97 12" RCP (SE) 608.52	32 STM DGI GRATE 609.30 12" RCP (SW) 604.18	33 STM DGI GRATE 609.31 12" RCP (SW) 606.31	34 STM SGI GRATE 622.99 12" RCP (NW) 619.34	35 STM DGI GRATE 621.97 12" RCP (SW) 619.37	36 STM DGI GRATE 616.66 12" PVC (W) 613.96	37 STM DGI GRATE 600.89 12" RCP (NW) 596.74	38 STM DGI GRATE 600.63 12" RCP (SW) 597.83
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- The check dam shall be constructed of 4-8 inch diameter stone, placed so that it completely covers the width of the channel. 0001 Type D stone is acceptable, but should be underlain with a gravel filter consisting of 0001 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.
- 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.
- A Splash Apron shall be constructed where check dams 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.
- 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.
- Side slopes shall be a minimum of 2:1.



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SECTION CORNER
SEC 35-14-FR2



CINCINNATI OFFICE
246 CROWNE POINT DR
CINCINNATI, OH 45241
Tel: (513) 871-8144
Fax: (513) 871-8160

INFRASTRUCTURE
DEVELOPMENT
ENGINEERING
ide

Designed By: T. FOSTER
Drawn By: T. FOSTER
Checked By: T. COOK
Approved By: T. FOSTER

REVISIONS:
SITE WORK PACKAGE - 072817
CITY COMMENTS - 082518
CONSTRUCTION - 042618
ADDENDA REVISION - 060818

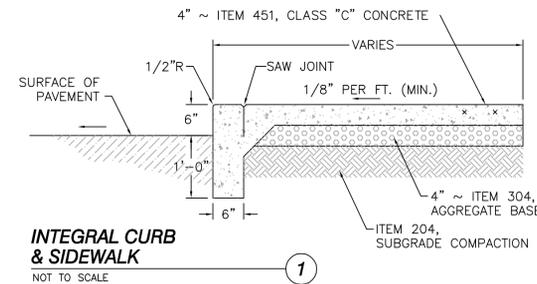
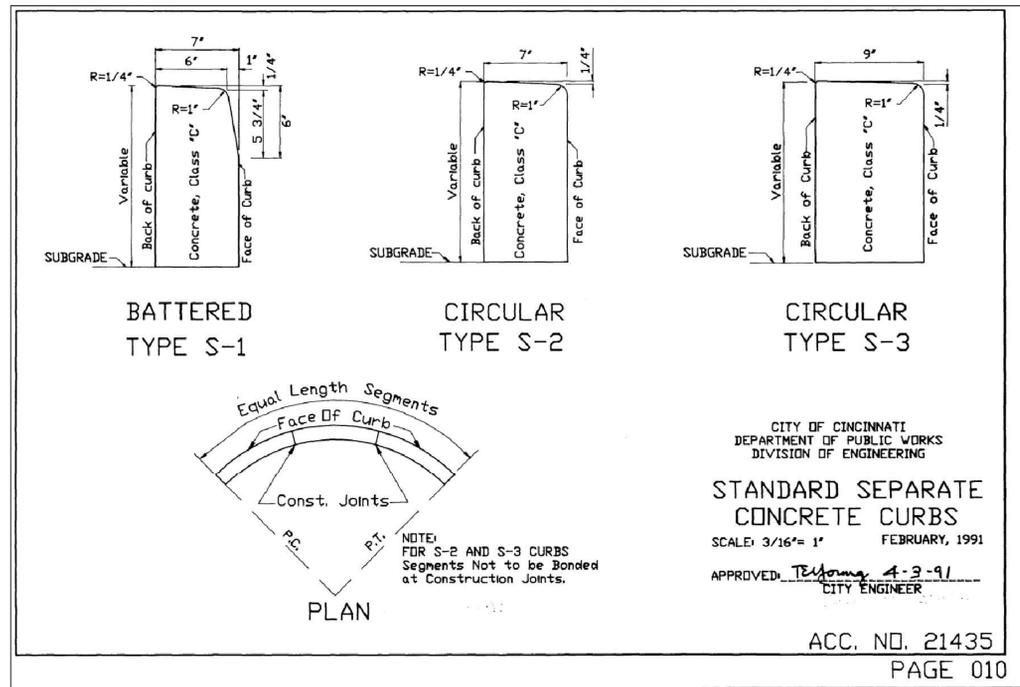
PORT OF GREATER CINCINNATI
DEVELOPMENT AUTHORITY
2250 SEYMOUR AVE
HAMILTON COUNTY
CINCINNATI, OH 45212

GRADING &
LAYOUT PLAN

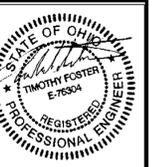
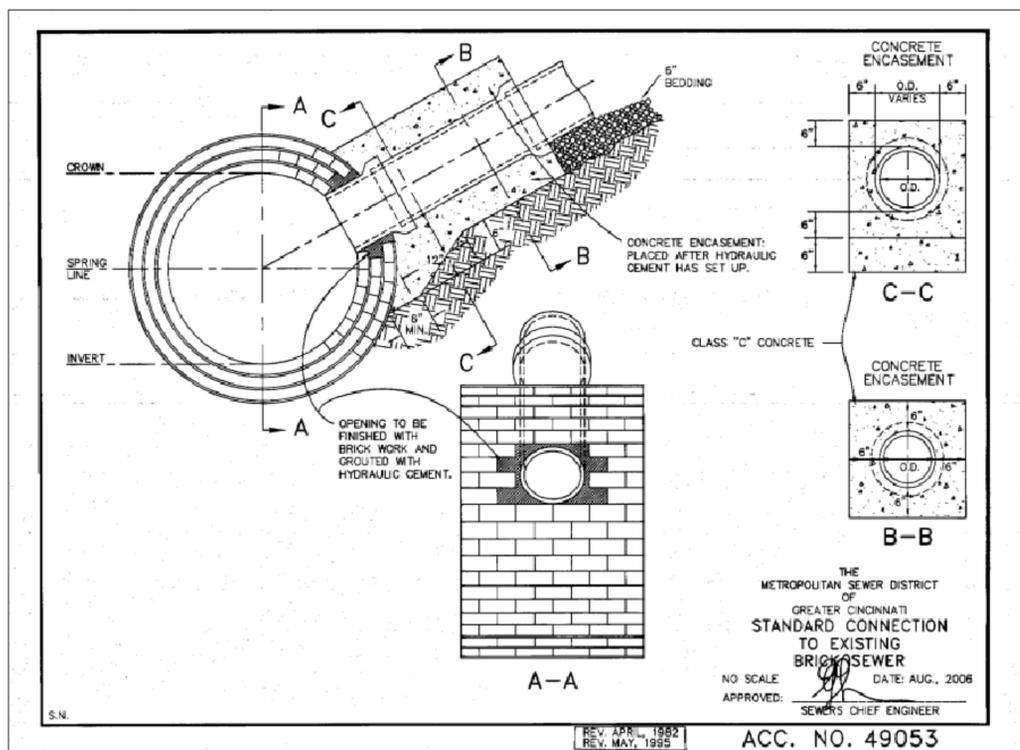
Scale: 1" = 60'
Date: 03/27/17
Sheet No. 3 of 5
CD103
Project No.
16045A-32

SITE & DRAINAGE DETAILS

FINAL FOR CONSTRUCTION



SITE PREPARATION DRAINAGE: EAST SIDE OF SEYMOUR AVE		SITE PREPARATION DRAINAGE: WEST SIDE OF SEYMOUR AVE	
E SIDE SEYMOUR PRE-PREPARATION: 5.47 AC., C=0.90 0.50 AC., C=0.30 5.97 AC., C=0.85 (COMPOSITE)	W SIDE SEYMOUR PRE-PREPARATION: 7.96 AC., C=0.90 4.83 AC., C=0.50 12.79 AC., C=0.75 (COMPOSITE)	E SIDE SEYMOUR POST-PREPARATION: 5.47 AC., C=0.30 0.50 AC., C=0.30 5.97 AC., C=0.30 (COMPOSITE)	W SIDE SEYMOUR POST-PREPARATION: 7.96 AC., C=0.30 4.83 AC., C=0.50 12.79 AC., C=0.38 (COMPOSITE)
TIME OF CONC. = 10 MIN I=5.45 IN/HR (10-YR) I=6.30 IN/HR (25-YR) 10-YR PEAK FLOW = 9.76 CFS 25-YR PEAK FLOW = 11.28 CFS (SPLIT 25/75 BETWEEN NORTH/SOUTH)	TIME OF CONC. = 10 MIN I=5.45 IN/HR (10-YR) I=6.30 IN/HR (25-YR) 10-YR PEAK FLOW = 26.49 CFS 25-YR PEAK FLOW = 30.62 CFS (SPLIT 50/50 BETWEEN NORTH/SOUTH)	TIME OF CONC. = 10 MIN I=5.45 IN/HR (10-YR) I=6.30 IN/HR (25-YR) 10-YR PEAK FLOW = 27.66 CFS 25-YR PEAK FLOW = 31.97 CFS (SPLIT 25/75 BETWEEN NORTH/SOUTH)	TIME OF CONC. = 10 MIN I=5.45 IN/HR (10-YR) I=6.30 IN/HR (25-YR) 10-YR PEAK FLOW = 52.28 CFS 25-YR PEAK FLOW = 60.43 CFS (SPLIT 50/50 BETWEEN NORTH/SOUTH)
N. CAPACITY: 12" @ 2.8% = 6 CFS S. CAPACITY: 18" @ 2.3% = 16 CFS	N. CAPACITY: 21" @ 19% = 69 CFS S. CAPACITY: 21" @ 12% = 55 CFS	N. CAPACITY: 18" @ 7.4% = 28 CFS S. CAPACITY: 18" @ 11.7% = 36 CFS	N. CAPACITY: 21" @ 19% = 69 CFS S. CAPACITY: 21" @ 12% = 55 CFS
MASTER PLANNING CALCULATIONS: FUTURE DEVELOPMENT CRITERIA: EAST SIDE OF SEYMOUR AVE		MASTER PLANNING CALCULATIONS: FUTURE DEVELOPMENT CRITERIA: WEST SIDE OF SEYMOUR AVE	
E SIDE SEYMOUR PRE-DEVELOPMENT: 5.47 AC., C=0.45 (REDEVELOPMENT) 0.50 AC., C=0.30 5.97 AC., C=0.44 (COMPOSITE)	W SIDE SEYMOUR PRE-DEVELOPMENT: 7.96 AC., C=0.45 (REDEVELOPMENT) 4.83 AC., C=0.50 12.79 AC., C=0.47 (COMPOSITE)	E SIDE SEYMOUR POST-DEVELOPMENT: 5.47 AC., C=0.90 0.50 AC., C=0.30 5.97 AC., C=0.85 (COMPOSITE)	W SIDE SEYMOUR POST-DEVELOPMENT: 7.96 AC., C=0.90 4.83 AC., C=0.50 12.79 AC., C=0.75 (COMPOSITE)
DETENTION: STORM DURATION = 1 HR I=2.03 IN/HR (10-YR) I=2.42 IN/HR (25-YR) PRE-DEV 10-YR Q1 = 5.33 CFS POST-DEV 25-YR Q2 = 12.28 CFS S=(Q2*3600)*(1-Q1/Q2)*1.15	DETENTION: STORM DURATION = 1 HR I=2.03 IN/HR (10-YR) I=2.42 IN/HR (25-YR) PRE-DEV 10-YR Q1 = 12.20 CFS POST-DEV 25-YR Q2 = 23.21 CFS S=(Q2*3600)*(1-Q1/Q2)*1.15	DETENTION: STORM DURATION = 1 HR I=2.03 IN/HR (10-YR) I=2.42 IN/HR (25-YR) PRE-DEV 10-YR Q1 = 5.33 CFS POST-DEV 25-YR Q2 = 12.28 CFS S=(Q2*3600)*(1-Q1/Q2)*1.15	DETENTION: STORM DURATION = 1 HR I=2.03 IN/HR (10-YR) I=2.42 IN/HR (25-YR) PRE-DEV 10-YR Q1 = 12.20 CFS POST-DEV 25-YR Q2 = 23.21 CFS S=(Q2*3600)*(1-Q1/Q2)*1.15
DETENTION SIZE REQ'D = 28,800 CF (SPLIT 25/75 BETWEEN NORTH/SOUTH)		DETENTION SIZE REQ'D = 45,600 CF (SPLIT 50/50 BETWEEN NORTH/SOUTH)	



CINCINNATI OFFICE
2461 CROWNE POINT DR
CINCINNATI, OH 45241
Phone: (513) 871-8144
Fax: (513) 871-8160



Designed By: T. FOSTER
Drawn By: T. FOSTER
Checked By: T. COOK
Approved By: T. FOSTER

REVISIONS:

SITE WORK PACKAGE - 072817
CITY COMMENTS - 082517
CONSTRUCTION - 042618
ADDENDA REVISION - 060818

PORT OF GREATER CINCINNATI
DEVELOPMENT AUTHORITY
2250 SEYMOUR AVE
HAMILTON COUNTY
CINCINNATI, OH 45212

SITE & DRAINAGE DETAILS

Scale: NTS

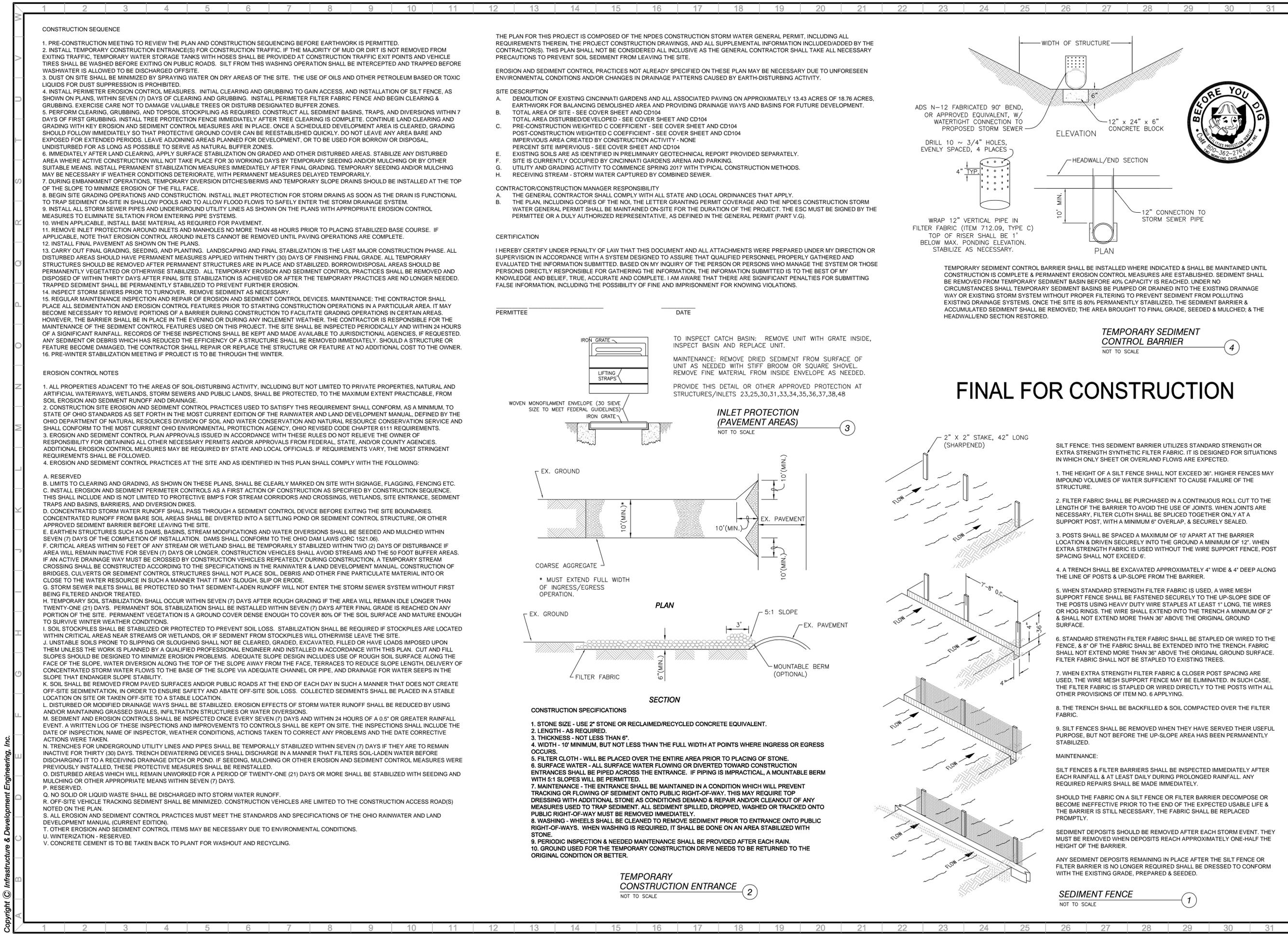
Date: 03/27/17

Sheet No. 4 of 5

CD104

Project No.
16045A-32





CONSTRUCTION SEQUENCE

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:

- A. RESERVED
- 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. EARTHEN STRUCTURES SUCH AS DAMS, BASINS, STREAM MODIFICATIONS AND WATER DIVERSIONS SHALL BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS OF THE COMPLETION OF INSTALLATION. DAMS SHALL CONFORM TO THE OHIO DAM LAWS (ORC 1521.06).
- F. CRITICAL AREAS WITHIN 50 FEET OF ANY STREAM OR WETLAND SHALL BE TEMPORARILY STABILIZED WITHIN TWO (2) DAYS OF DISTURBANCE IF AREA WILL REMAIN INACTIVE FOR SEVEN (7) DAYS OR LONGER. CONSTRUCTION VEHICLES SHALL AVOID STREAMS AND THE 50 FOOT BUFFER AREAS. IF AN ACTIVE DRAINAGE WAY MUST BE CROSSSED BY CONSTRUCTION VEHICLES REPEATEDLY DURING CONSTRUCTION, A TEMPORARY STREAM CROSSING SHALL BE CONSTRUCTED ACCORDING TO THE SPECIFICATIONS IN THE RAINWATER & LAND DEVELOPMENT MANUAL. CONSTRUCTION OF BRIDGES, CULVERTS OR SEDIMENT CONTROL STRUCTURES SHALL NOT PLACE SOIL, DEBRIS AND OTHER FINE PARTICULATE MATERIAL INTO OR CLOSE TO THE WATER RESOURCE IN SUCH A MANNER THAT IT MAY SLOUGH, SLIP OR ERODE.
- 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. TEMPORARY SOIL STABILIZATION SHALL OCCUR WITHIN SEVEN (7) DAYS AFTER ROUGH GRADING IF THE AREA WILL REMAIN IDLE LONGER THAN TWENTY-ONE (21) DAYS. PERMANENT SOIL STABILIZATION SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. PERMANENT VEGETATION IS A GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS.
- 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. TRENCHES FOR UNDERGROUND UTILITY LINES AND PIPES SHALL BE TEMPORARILY STABILIZED WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN INACTIVE FOR THIRTY (30) DAYS. TRENCH DEWATERING DEVICES SHALL DISCHARGE IN A MANNER THAT FILTERS SOIL-LADEN WATER BEFORE DISCHARGING IT TO A RECEIVING DRAINAGE DITCH OR POND. IF SEEDING, MULCHING OR OTHER EROSION AND SEDIMENT CONTROL MEASURES WERE PREVIOUSLY INSTALLED, THESE PROTECTIVE MEASURES SHALL BE REINSTALLED.
- O. DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF TWENTY-ONE (21) DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING OR OTHER APPROPRIATE MEANS WITHIN SEVEN (7) DAYS.
- P. RESERVED.
- Q. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.
- R. OFF-SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD(S) NOTED ON THE PLAN.
- S. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO RAINWATER AND LAND DEVELOPMENT MANUAL (CURRENT EDITION).
- T. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- U. WINTERIZATION - RESERVED.
- V. 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 PLANS MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH-DISTURBING ACTIVITY.

SITE DESCRIPTION

- A. DEMOLITION OF EXISTING CINCINNATI GARDENS AND ALL ASSOCIATED PAVING ON APPROXIMATELY 13.43 ACRES OF 18.76 ACRES, EARTHWORK FOR BALANCING DEMOLISHED AREA AND PROVIDING DRAINAGE WAYS AND BASINS FOR FUTURE DEVELOPMENT.
- B. TOTAL AREA OF SITE - SEE COVER SHEET AND CD104
- C. TOTAL AREA DISTURBED/DEVELOPED - SEE COVER SHEET AND CD104
- D. PRE-CONSTRUCTION WEIGHTED C COEFFICIENT - SEE COVER SHEET AND CD104
- E. POST-CONSTRUCTION WEIGHTED C COEFFICIENT - SEE COVER SHEET AND CD104
- F. IMPERVIOUS AREA CREATED BY CONSTRUCTION ACTIVITY - NONE
- G. PERCENT SITE IMPERVIOUS - SEE COVER SHEET AND CD104
- H. EXISTING SOILS ARE AS IDENTIFIED IN PRELIMINARY GEOTECHNICAL REPORT PROVIDED SEPARATELY.
- I. SITE IS CURRENTLY OCCUPIED BY CINCINNATI GARDENS ARENA AND PARKING.
- J. UTILITY AND GRADING ACTIVITY TO COMMENCE SPRING 2017 WITH TYPICAL CONSTRUCTION METHODS.
- K. RECEIVING STREAM - STORM WATER CAPTURED BY COMBINED SEWER.

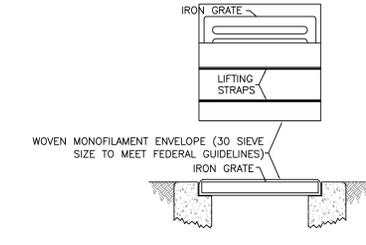
CONTRACTOR/CONSTRUCTION MANAGER RESPONSIBILITY

- A. 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 PERMITEE 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.

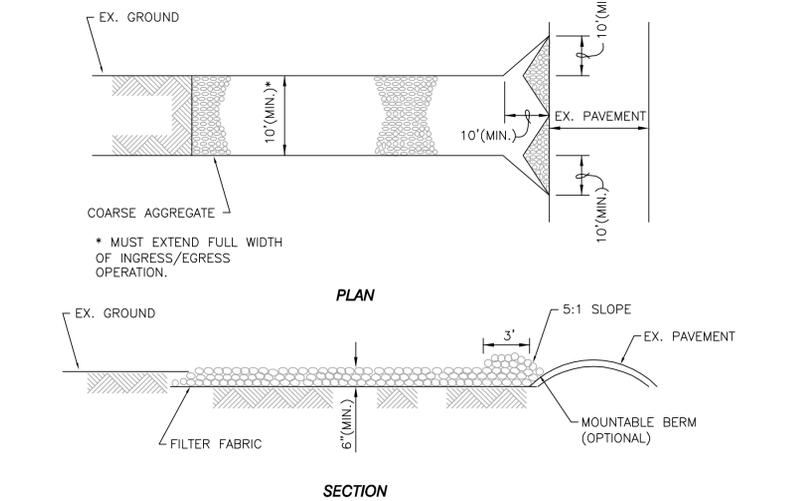
PERMITEE _____ DATE _____



TO INSPECT CATCH BASIN: REMOVE UNIT WITH GRATE INSIDE, INSPECT BASIN AND REPLACE UNIT.

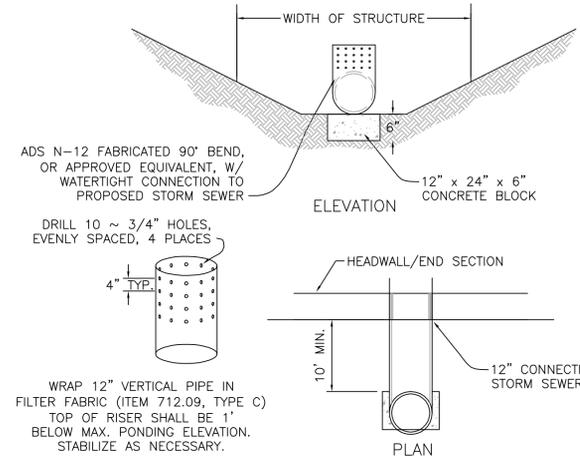
MAINTENANCE: REMOVE DRIED SEDIMENT FROM SURFACE OF UNIT AS NEEDED WITH STIFF BROOM OR SQUARE SHOVEL. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED.

PROVIDE THIS DETAIL OR OTHER APPROVED PROTECTION AT STRUCTURES/INLETS 23,25,30,31,33,34,35,36,37,38,48



- CONSTRUCTION SPECIFICATIONS**
1. STONE SIZE - USE 2" STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - AS REQUIRED.
 3. THICKNESS - NOT LESS THAN 6".
 4. WIDTH - 10' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 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 WITH 5:1 SLOPES WILL BE PERMITTED.
 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 STONE.
 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.

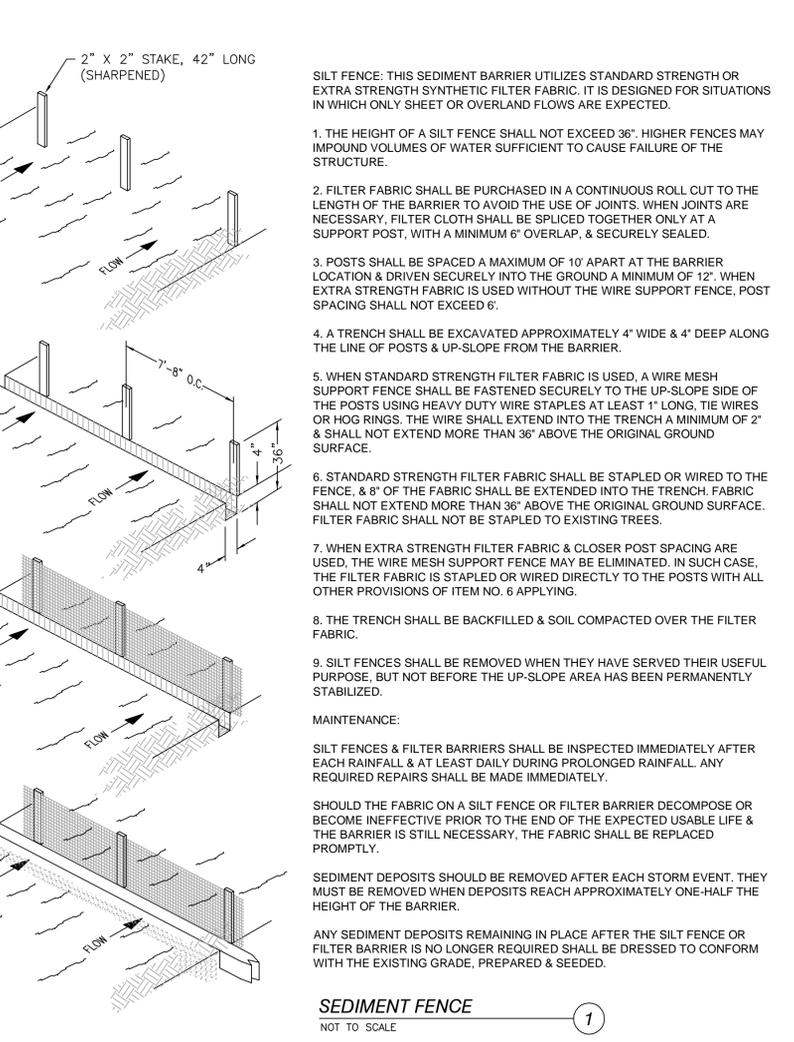
TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE



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. 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.

TEMPORARY SEDIMENT CONTROL BARRIER
NOT TO SCALE

FINAL FOR CONSTRUCTION



- 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. THE 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 FABRIC.
 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 USEFUL LIFE & THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 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.



CINCINNATI OFFICE
246 GROWING POINT DR
CINCINNATI, OH 45215
Ph: (513) 871-8144
Fax: (513) 871-8160



Designed By: T. FOSTER
Drawn By: T. FOSTER
Checked By: T. COOK
Approved By: T. FOSTER

REVISIONS:
SITE WORK PACKAGE - 072817
CITY COMMENTS - 082517
CONSTRUCTION - 042618
ADDENDA REVISION - 060818

PORT OF GREATER CINCINNATI DEVELOPMENT AUTHORITY
2250 SEYMOUR AVE
HAMILTON COUNTY
CINCINNATI, OH 45212

EROSION & SEDIMENT DETAILS

Scale: NTS
Date: 03/27/17
Sheet No. 4 of 5
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Project No.
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