

**GENERAL NOTES**

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, (2002 VERSION) INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 24-HOURS IN ADVANCE OF ANTICIPATED START OF CONSTRUCTION:

- DIVISION OF SEWERAGE AND DRAINAGE (614) 645-7102
- DIVISION OF DESIGN AND CONSTRUCTION, INSPECTION SERVICES SECTION (614) 645-3182

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 72-HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48-HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

THE DEVELOPER/OWNER SHALL, PRIOR TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COSTS FOR INSPECTION AND WHERE REQUIRED A REPAVING GUARANTEE.

ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE.

ALL PLASTIC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION IN CONFORMANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT VERSION.

ALL CONCRETE PIPE, STORM AND SANITARY SEWER STRUCTURES WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE, STORM AND SANITARY STRUCTURES HAVE BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEETS THEIR SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE MAY BE FOUND ON SHEETS NO. 7 AND 8 OF THESE PLANS. LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

SITE SPECIFIC DETAILS FOR THIS SWP-3 MAY BE FOUND ON STORM SEWER PLAN: CC-15577. THE SITE CONTACT FOR THIS SITE IS:

LARRY PECK  
METRO PARKS DEPUTY DIRECTOR  
614-895-6236 (WORK)  
614-895-6208 (FAX)  
1069 WEST MAIN ST.  
COLUMBUS, OHIO 43081  
PECK@METROPARKS.NET

THIS SITE IS A TRIBUTARY TO THE SCIOTO RIVER.

IT IS THE RESPONSIBILITY OF THE SITE OWNER TO NOTIFY THE CITY OF COLUMBUS TWO WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATION TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORM WATER MANAGEMENT OFFICE @ (614) 645-6700 OR FAX @ (614) 645-1506. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE EROSION AND SEDIMENT POLLUTION CONTROL REGULATION (ADOPTED JUNE 1, 1994). FAILURE TO COMPLY MAY RESULT IN ENFORCEMENT ACTION AS DETAILED IN THE COLUMBUS CITY CODES SECTION 1145.80.

THE CONTRACTOR SHALL ENSURE THERE IS A SURVEYOR'S LEVEL AND ROD ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS WHENEVER SEWER LINE STRUCTURES OR PIPE ARE BEING INSTALLED. THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE FOR USE AND ASSIST THE CITY INSPECTOR IN PERFORMING GRADE CHECKS WHEN REQUESTED BY THE INSPECTOR. THE INSPECTOR WILL MAKE ALL REASONABLE ATTEMPTS TO CONFINE REQUESTS FOR ASSISTANCE IN PERFORMING GRADE CHECKS TO TIMES CONVENIENT TO THE CONTRACTOR.

THESE CHECKS WILL BE PERFORMED TO ENSURE THE FOLLOWING:

1. PROPER PLACEMENT OF EACH STRUCTURE.
2. PROPER INSTALLATION OF INITIAL RUNS OF PIPE FROM A STRUCTURE.
3. GRADE, AFTER AN OVERNIGHT OR LONGER SHUTDOWN.
4. GRADE, AT ANY OTHER TIME THE INSPECTOR HAS REASON TO QUESTION GRADE OF INSTALLATION.

GRADE CHECKS PERFORMED BY THE CITY INSPECTOR IN NO WAY RELIEVE THE CONTRACTOR OF THE ULTIMATE RESPONSIBILITY TO ENSURE CONSTRUCTION TO THE PLAN GRADE.

THE PONDING OR DETENTION AREAS SHOWN ON THE PLANS ARE A PART OF THE STORM SEWER FACILITIES. THE DEVELOPER/OWNER WILL ASSUME THE RESPONSIBILITY TO MAINTAIN THE PONDING OR DETENTION AREAS SO AS NOT TO REDUCE THE WATER STORAGE AREAS. IF THE OWNER DOES NOT MAINTAIN THE PONDING AND DETENTION AREAS, THE PLAN WILL BECOME VOID AND THE CITY WILL PLUG THE SEWER AT THE OUTLET.

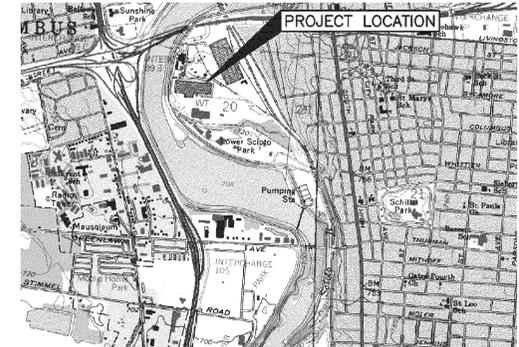
AS A CONDITION OF FINAL ACCEPTANCE, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT SURVEYS TO VERIFY THE FINAL GRADES AND ELEVATIONS OF STORM WATER DETENTION BASINS AND WETLANDS THAT ARE TO BE OWNED AND OPERATED BY THE CITY. AT THE COMPLETION OF CONSTRUCTION, FIELD SURVEY THE STORM WATER DETENTION FACILITY TO VERIFY THAT THE FACILITIES ARE CONSTRUCTED ACCORDING TO APPROVED PLANS. SHOULD A DISCREPANCY BETWEEN THE PLANS AND CONSTRUCTED GRADES EXIST, THE DESIGN STORAGE OF THE DETENTION FACILITY SHALL BE RESTORED BY THE OWNER/DEVELOPER AS DIRECTED BY THE CITY OF COLUMBUS.

FLOOD DESIGNATION. THE SITE IS WITHIN FLOOD ZONE AE AS INDICATED ON MAP NUMBER 39049C0309K DATED JUNE 17, 2008. 100 YEAR FLOOD ELEVATION FOR THIS SITE IS ELEVATION 717.

# SCIOTO AUDUBON METRO PARK IMPROVEMENTS

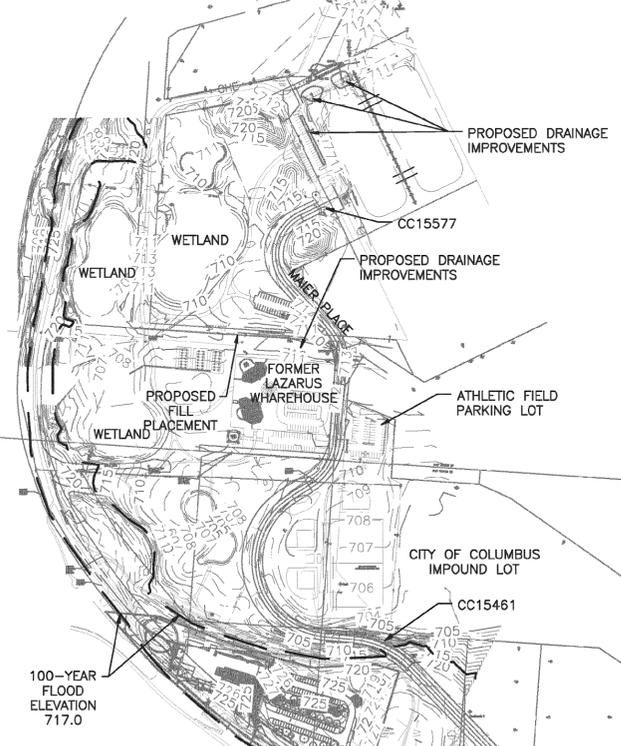
**BENCH MARKS**

SOURCE BENCHMARK C189:	BP SET VERTICALLY IN SOUTH CONCRETE FACE OF THE CONCRETE FOUNDATION FOR A 2 STORED RED BRICK BUILDING AT 886 S. HIGH STREET, NEAR NE CORNER OF JUNCTION OF S. HIGH STREET AND WHITTIER STREET, 20.9 FT. E. OF E. CURB OF S. HIGH STREET, 12.0 FT. N. OF N. CURB OF WHITTIER STREET, 1.6 FT. E. OF SW CORNER OF BUILDING 0.8 FT. ABOVE LEVEL OF SIDEWALK. ELEVATION = 755.309
	HORIZONTAL CONTROL BASED ON MONUMENTS MAINTAINED BY THE FRANKLIN COUNTY ENGINEER'S OFFICE ON NAD 83 (1986 ADJUSTMENT) GRID COORDINATES.
	VERTICAL CONTROL BASED ON MONUMENTS MAINTAINED BY THE FRANKLIN COUNTY ENGINEER'S OFFICE ON NAVD 88.
BENCHMARK #1:	RAILROAD SPIKE IN LIGHT POLE SOUTH OF CB6 ON THE EAST SIDE OF SERVICE ROAD AND NEAR THE CORNER OF POLICE IMPOUND LOT. ELEVATION = 724.99
BENCHMARK #2:	RAILROAD SPIKE IN LIGHT POLE LOCATED NORTH OF CB5 IN IMPOUND LOT. ELEVATION = 705.38
BENCHMARK #3:	RAILROAD SPIKE SET IN UTILITY POLE No. 3885 ON THE WEST SIDE OF SERVICE ROAD FIRST POLE SOUTH OF PAVED PARKING LOT. ELEVATION = 714.21



**LOCATION PLAN**

SCALE: 1" = 2000'



**INDEX MAP**

SCALE: 1" = 300'

WATER QUALITY REQUIREMENTS FOR AREAS IMPACTED BY IMPROVEMENTS SHOWN ON THESE DRAWINGS IS MET THROUGH A REDUCTION IN IMPERVIOUS SURFACE AREA BY 68%

**SITE DATA TABLE**

TRAILS AND PATHS	
TOTAL SITE AREA (DRAINAGE AREA)	2.0 AC.
TOTAL DISTURBED AREA*	2.0 AC.
PREDEVELOPED IMPERVIOUS AREA	1.71 AC.
POST DEVELOPED IMPERVIOUS AREA	1.54 AC.
NORTH PARKING LOT	
TOTAL SITE AREA (DRAINAGE AREA)	2.79 AC.
TOTAL DISTURBED AREA*	2.18 AC.
PREDEVELOPED IMPERVIOUS AREA	1.46 AC.
POST DEVELOPED IMPERVIOUS AREA	0.90 AC.
ATHLETIC FIELD PARKING LOT	
TOTAL SITE AREA (DRAINAGE AREA)	22.6 AC.
TOTAL DISTURBED AREA	6.4 AC.
PREDEVELOPED IMPERVIOUS AREA	17.9 AC.
POST DEVELOPED IMPERVIOUS AREA	11.5 AC.
100-YEAR FLOOD ELEVATION	717.0
NORTH LAZARUS YARD	
TOTAL SITE AREA (DRAINAGE AREA)	2.14 AC.
TOTAL DISTURBED AREA	1.51 AC.
PREDEVELOPED IMPERVIOUS AREA	1.23 AC.
POST DEVELOPED IMPERVIOUS AREA	1.06 AC.

\*INCLUDES EXISTING PAVED AREAS BEING RESURFACED

**ESTIMATE OF QUANTITIES**

ITEM	QUANTITY	UNIT	DESCRIPTION
901	15	L.F.	12" RCP STORM SEWER PIPE WITH TYPE 1 BEDDING
901	265	L.F.	18" CORRUGATED POLYETHYLENE SMOOTH LINED PIPE WITH TYPE 1 BEDDING
659	2,000	S.Y.	SEEDING
604	4	EACH	STANDARD CATCH BASIN PER AA-S133
604	3	EACH	MANHOLE TYPE A
901	115	L.F.	8" CORRUGATED POLYETHYLENE SMOOTH LINED PIPE WITH TYPE 1 BEDDING
901	283	L.F.	6" HDPE DRAIN WITH TYPE 1 BEDDING
901	52	L.F.	8" CONCRETE STORM SEWER PIPE WITH TYPE 1 BEDDING
901	45	L.F.	12" CMP STORM SEWER PIPE WITH TYPE 1 BEDDING
604	1	EACH	MANHOLE RECONSTRUCTION TO GRADE
202	3	EACH	ABANDON CATCH BASIN
202	4	EACH	REMOVE CATCH BASIN
202	10	L.F.	REMOVE 6" PIPE
SPEC		LUMP	RAIN GARDEN
807	1	EACH	VALVE BOX ADJUSTMENT TO GRADE

**CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS**

AA-S151	AA-S168	AA-S149	AA-S155
AA-S166	AA-S100	AA-S112	AA-S119
AA-S106	AA-S107	AA-S133	AA-S169

EASEMENT REFERENCE			REVISIONS		
CITY NO.	COUNTY RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL	PAGE			
			1	REVISED SHEETS 4 AND 5 FOR CHANGES TO GRADING AND MANHOLE T/C ELEVATIONS	APA 7/29/11

PLAN PREPARED BY:

REGISTERED ENGINEER

DATE: 12-2-09

APPROVALS: SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. APPROVAL FOR STORM SEWERS ONLY.

Hansen T. Johnson 12-10-09  
CITY ENGINEER, DIVISION OF DESIGN AND CONSTRUCTION

E. Whitehead R.C. Whitefield 12/01/09  
ADMINISTRATOR, DIVISION OF POWER AND WATER

Doug S. Mulcahey 12-10-09  
ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE

N/A  
DIRECTOR, RECREATION AND PARKS DEPARTMENT

PROJECT TITLE:

PRIVATE DRAINAGE SEWER PLAN FOR SCIOTO AUDUBON METRO PARK IMPROVEMENTS

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY	OWNER
	CONTRACTOR
	INSPECTOR
AGREEMENT	COMPLETED
RPD	CKD
CLD	CON. DR.

SCALE: AS SHOWN

SHEET: 1 OF 9

CONTRACT DRAWING NO. CC-15665

RECORD PLAN NO.

**UTILITY NOTES:**

- EXISTING UTILITIES AND STRUCTURES.** THE LOCATION OF UTILITIES AND STRUCTURES SHOWN ON THE PLANS IS FROM INFORMATION OBTAINED FROM A SITE SURVEY AND THE DESIGN DRAWINGS FOR THE SITE DEVELOPMENT CONTRACT BY METRO PARKS. THE LOCATION OF UTILITIES AND STRUCTURES INDICATED IS NOT NECESSARILY COMPLETE OR CORRECT. THE LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL UTILITIES, SERVICES, STRUCTURES, & APPURTENANCES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- UTILITY COMPANY NOTIFICATION.** CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 2 WORKING DAYS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND AND/OR OVERHEAD LINES. CONTACT OHIO UTILITIES PROTECTION SERVICE, 1-800-362-2764. NONMEMBER UTILITIES MUST BE CONTACTED.
- UTILITY COMPANIES.** CONTRACTOR SHALL COORDINATE WORK WITH THE FOLLOWING UTILITIES AS REQUIRED TO COMPLETE THE PROPOSED IMPROVEMENTS:
  - a. WATER. CITY OF COLUMBUS, DIVISION OF WATER
  - b. SANITARY SEWER. CITY OF COLUMBUS, DIVISION OF SEWERAGE AND DRAINAGE.
  - c. NATURAL GAS. COLUMBIA GAS
  - d. ELECTRICITY. CITY OF COLUMBUS, DIVISION OF ELECTRIC & AMERICAN ELECTIRC POWER
  - e. CABLE TELEVISION. TIME WARNER COMMUNICATIONS.
  - f. TELEPHONE. VERIZON
- PIPING MATERIALS.**
  - HDPE – HIGH DENSITY POLYETHYLENE PIPE, SMOOTH WALLED PER CCMS 707.33
  - RCP – REINFORCED CONCRETE PIPE PER CCMS 706.0
  - CONCRETE – CONCRETE PIPE PER CCMS 706.0
  - CMP – CORRUGATED METAL PIPE PER CCMS 707.0

**CONTRACTOR SCOPE OF WORK:**

- CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ALL TOOLS, EQUIPMENT, MATERIALS, AND LABOR FOR INSTALLATION OF THE PROPOSED HEADWALL, STORM SEWER, PAVEMENT REMOVAL/REPLACEMENT, BACKFILL, CONCRETE ENCASEMENT, MAINTENANCE OF TRAFFIC, AND TEMPORARY SEDIMENT AND EROSION CONTROL.

**FOR THE DIVISION OF POWER AND WATER (POWER)**

THE DOPWP, CITY OF COLUMBUS, OHIO HAS UNDERGROUND PRIMARY AND OVERHEAD PRIMARY, SECONDARY, STREET LIGHTING, AND AREA LIGHTING AT THE WORK SITE. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS 1-800-362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA. THE DOPWP DISPATCH OFFICE NUMBER IS: (614) 645\_7627 (VOICE).

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S STREET LIGHTING SYSTEM IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOPWP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOPWP SHALL MAKE ALL FINAL CONNECTIONS TO DOPWP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING THE DOPWP "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMS). ANY NEW OR REINSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.18 OF THE CMS MANUAL. THE CONTRACTOR SHALL CONFORM TO THE DOPWP'S EXISTING CONDUCTOR SAFETY POLICY AND HOLD CARD SYSTEM (MIS-95 & 177). COPIES OF WHICH ARE AVAILABLE FROM THE DOPWP. IF YOU HAVE ANY QUESTIONS, CALL MIHAI ORBOCEA AT (614) 645-6851 OR CHRIS VOGEL AT (614) 645-6963.

IF ANY ELECTRIC FACILITY BELONGING TO THE DOPWP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOPWP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DOPWP, CITY OF COLUMBUS, OHIO.

**SITE NOTES:**

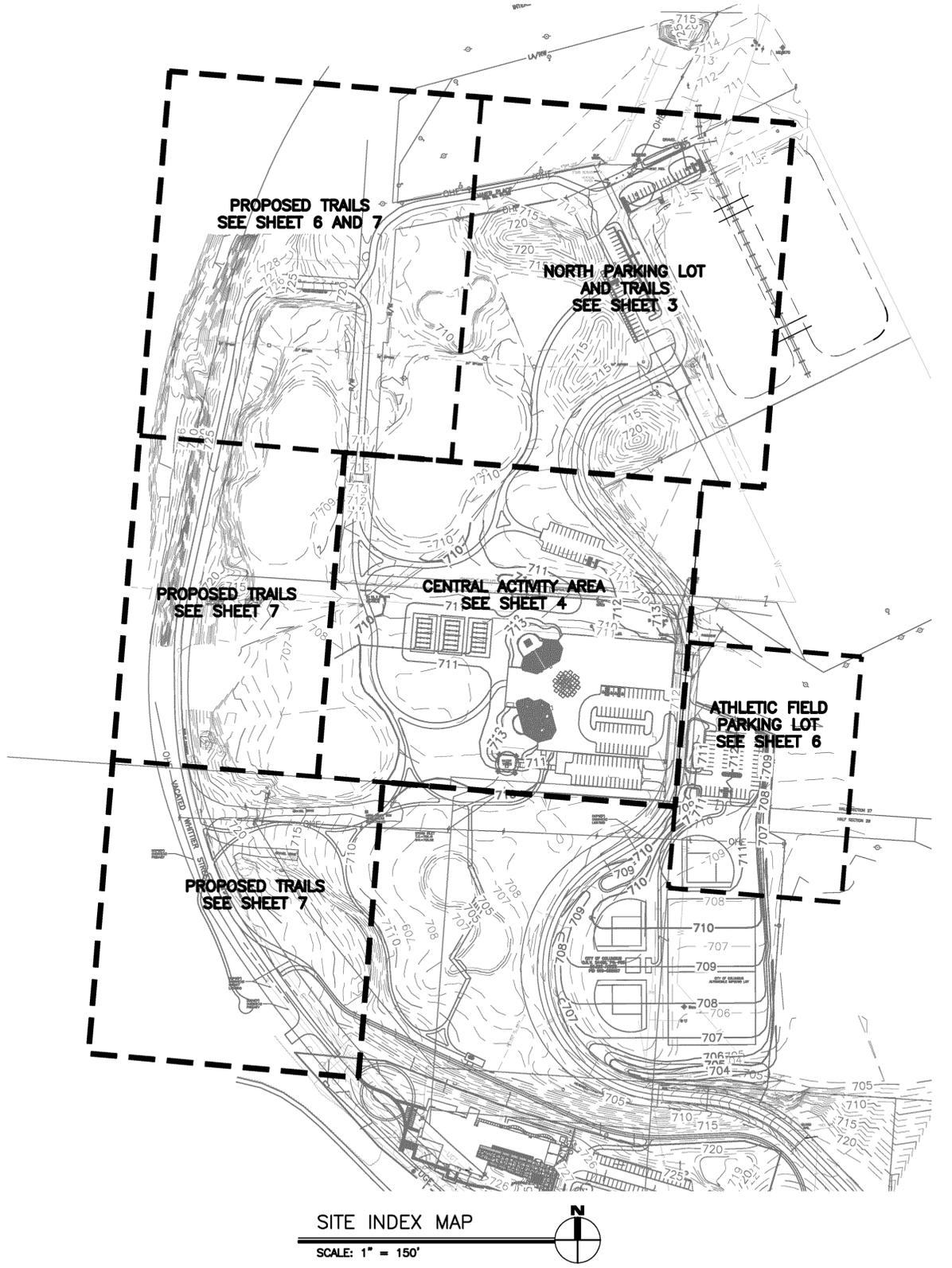
- ALL REQUIRED FILL MATERIAL REQUIRED FOR THIS PROJECT WILL BE PROVIDED BY METRO PARKS FOR CONTRACTOR INSTALLATION.
- MAIER PLACE MUST BE MAINTAINED IN A CONDITION THAT WILL ALLOW AN 110 TON SEMI TRUCK TO ACCESS DOPWP'S FURNACE STREET SUBSTATION FOR MAINTENANCE & REPAIR. CALL BOB SCHNEIDER AT 645-7534.
- POTENTIALLY IMPACTED SOILS. CONTRACTOR SHALL BE AWARE THAT ALL EXISTING SOILS AT THE SITE BELOW A DEPTH OF 2 FEET BELOW EXISTING GRADES SHALL BE CONSIDERED TO BE POTENTIALLY IMPACTED AND SHALL BE HANDLED AS SUCH IN ACCORDANCE WITH THE SITE RISK MITIGATION PLAN AND THE FOLLOWING REQUIREMENTS, INCLUDING SEGREGATION OF ALL EXCAVATED MATERIAL INTO TWO DISCRETE PILES FOR SEPARATE HANDLING.
  - a. TOP 2 FEET OF EXISTING SOIL. THE TOP 2 FEET OF SOILS ARE CONSIDERED TO BE "CLEAN" AND SUITABLE FOR PLACEMENT AS GENERAL EMBANKMENT OR BACKFILL MATERIAL WITHIN THE PROPOSED EMBANKMENT/BACKFILL LOCATIONS REQUIRED BY THESE PLANS.
  - b. EXCAVATED MATERIAL FROM 2 OR MORE FEET BELOW EXISTING GRADE. THIS MATERIAL SHALL BE CONSIDERED POTENTIALLY IMPACTED AND SHALL BE HANDLED IN ACCORDANCE WITH THE RISK MITIGATION PLAN. THIS MATERIAL SHALL BE PLACED WITHIN A SEPARATE STOCKPILE IN THE IDENTIFIED SITE SPOIL AREA AT THE NORTHEAST CORNER OF THE SITE AND THEN COVERED WITH A MINIMUM OF 2 FEET OF CLEAN SOILS BY THE CONTRACTOR AT THE COMPLETION OF WORK ON THIS PROJECT. COORDINATE THE LOCATION, SIDE SLOPES, AND MAXIMUM ELEVATION OF THIS STOCKPILE WITH THE OWNER PRIOR TO ITS CREATION. THE EXCAVATED MATERIAL SHALL THEN BE REPLACED BY THE CONTRACTOR WITH CLEAN FILL MATERIAL PROVIDED BY METRO PARKS OR FROM THE TOP 2 FEET OF THE EXCAVATION.

- SEDIMENT AND EROSION CONTROL. THE CONTRACTRO SHALL FOLLOW THE REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN DEVELOPED FOR THIS PROJECT. THIS SHALL INCLUDE FURNISHING AND MAINTAINING THE SEDIMENT AND EROSION CONTROL FEATURES IDENTIFIED ON THESE DRAWINGS THROUGHOUT CONSTRUCTION.
- SUBGRADE PREPARATION. ALL PAVEMENT SUBGRADES SHALL BE COMPACTED TO A DEPTH OF 12 INCHES. SUBGRADE SOILS WITH A MAXIMUM DRY DENSITY OF LESS THAN 100 POUNDS PER CUBIC FOOT ARE CONSIDERED UNSUITABLE FOR USE IN THE UPPER 12 INCHES BELOW PAVEMENT AND SHALL BE REPLACED WITH SUITABLE MATERIAL WHEN ENCOUNTERED IN THE UPPER 12 INCHES. SOIL SUBGRADE WITH A MAXIMUM DRY DENSITY OF 100 TO 105 POUNDS PER CUBIC FOOT SHALL BE COMPACTED TO NOT LESS THAN 102 PERCENT OF MAXIMUM DRY DENSITY. ALL OTHER SUBGRADE SOILS SHALL BE COMPACTED TO NOT LESS THAN 100 PERCENT OF MAXIMUM DRY DENSITY. MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND 3 PERCENTAGE POINTS ABOVE OPTIMUM. ALL AREAS OF NEW ASPHALT PAVEMENT INCLUDING THE ATHLETIC FIELD PARKING LOT SHALL BE PROOF ROLLED BY THE CONTRACTOR. THE ATHLETIC FIELD PARKING LOT SUBGRADE HAS BEEN COMPACTED BY METRO PARKS.
- PROOF ROLLING. FOLLOWING SUBGRADE COMPACTION, THE CONTRACTOR SHALL PROOF ROLL ALL PAVEMENT SUBGRADES IN ACCORDANCE WITH ODOT ITEM 203.14, EXCEPT THAT A PNEUMATIC TIERED VEHICLE WITH A MINIMUM GROSS LOAD OF 25 TONS MAY BE USED IN PLACE OF THE EQUIPMENT SPECIFIED BY ODOT ITEM 203.14. THE EXPOSED SUBGRADE SHALL BE ROLLED WITH AT LEAST 2 COVERAGES OF THE VEHICLE. ANY SOFT OR WEAK AREAS SHALL BE REMOVED AND CORRECTED PER ODOT ITEM 203.13.

**STORM SEWER NOTES:**

- CATCH BASINS. NEW CATCH BASINS SHALL BE IN ACCORDANCE WITH COLUMBUS STANDARD DRAWING AA-S133.
- MANHOLES. MANHOLES SHALL BE IN ACCORDANCE WITH COLUMBUS STANDARD DRAWING AA-S100 AND AA-S106.

CC-15665 SHEET INDEX	
NUMBER	DESCRIPTION
1	TITLE SHEET
2	GENERAL SITE IMPROVEMENT INDEX MAP
3	NORTH PARKING LOT AND TRAILS IMPROVEMENTS
4	CENTRAL ACTIVITY AREA DRAINAGE PLAN
5	CENTRAL ACTIVITY STORM SEWER PROFILES
6	ATHLETIC FIELD PARKING LOT SEDIMENT AND EROSION CONTROL PLAN
7	SEDIMENT AND EROSION CONTROL DETAILS
8	MAINTENANCE OF TRAFFIC



EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE	
	VOL. PAGE					

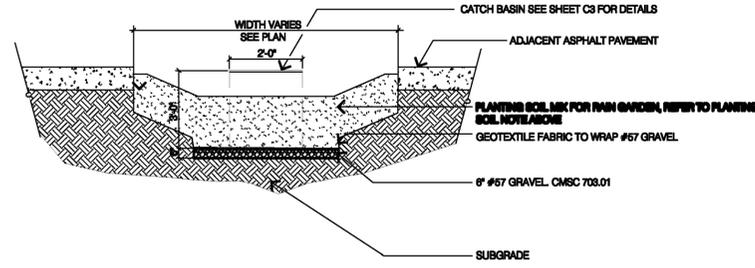
PLANS PREPARED BY:  
  
**BURGESS & NIPLÉ**

GENERAL SITE IMPROVEMENT INDEX MAP

PROJECT TITLE:		PRIVATE DRAINAGE SEWER PLAN FOR SCIOTO AUDUBON METRO PARK IMPROVEMENTS	
DIVISION USE ONLY	OWNER	CONTRACTOR	
	INSPECTOR		
AGREEMENT	COMPLETED		
RPD	CKD CLD CON. DR.		

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE <small>DIVISION USE ONLY</small>	
SCALE: AS SHOWN	SHEET: 2 OF 9
CONTRACT DRAWING NO. CC-15665	RECORD PLAN NO.

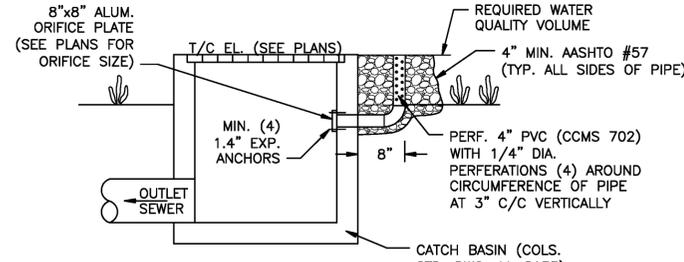
NOTES:  
 THE SOIL SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE RAIN GARDEN AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, OR OTHER NOXIOUS WEEDS. THE PLANTING SOIL FOR RAIN GARDEN FACILITIES SHALL CONSIST OF A MIXTURE OF SAND, TOPSOIL, AND COMPOST WITH A PH RANGE OF 6.5 AND 6.8. IN ADDITION, THE SOIL SHALL HAVE INFILTRATION RATES NO LESS THAN 0.5 INCHES PER HOUR, ACHIEVED THROUGH THE FOLLOWING STANDARDS:  
 A. 4 PARTS SAND (PER CMSC 708.09),  
 B. 2 PARTS TOPSOIL (PER CMSC 663.02), AND  
 C. 2 PARTS COMPOST (PER ODOT CMSC 669.08).



**RAIN GARDEN**

SCALE: NONE

NOTE: RAIN GARDENS TO BE INSTALLED AFTER SITE IS STABILIZED. SOIL MIXTURE TO BE VERIFIED ON-SITE UPON DELIVERY.



**STORM WATER QUALITY CONTROL OUTLET**

SCALE: NONE

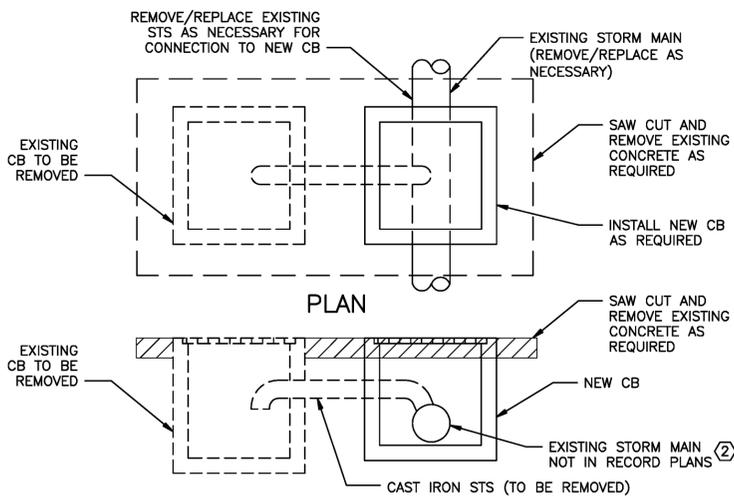
NOTE:  
 MAIER PLACE AND THE CONCRETE/ASPHALT ROAD BETWEEN MAIER PLACE AND THE COLUMBUS ELECTRICAL SUBSTATION SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW AN 110 TON SEMI TRUCK TO ACCESS DOPWP'S FURNACE STREET SUBSTATION FOR MAINTENANCE & REPAIR. CALL BOB SCHNEIDER AT 645-7534.

**BMP WATER QUALITY STRUCTURE NOTICE:**  
 THE WATER QUALITY STRUCTURES 3 AND 4 ARE STORMWATER QUALITY BMP'S AND ARE AN INTEGRAL PART OF THE PRIVATE STORM SEWER SYSTEM DEPICTED IN THESE DRAWINGS. RESPONSIBILITY AND ASSURANCE OF PERIODIC MAINTENANCE AND THE CONTINUOUS FUNCTIONALITY OF THESE STORMWATER QUALITY DEVICES IS PERPETUAL, BEGINNING WITH THE OWNER AT THE TIME OF INSTALLATION AND CONTINUING TO ALL FUTURE OWNERS OF SAID PRIVATE STORM SEWER SYSTEM.

STRUCTURE ID	EXISTING T.C. EL.	EXISTING INV. EL.	MODIFICATIONS	NEW T.C. EL.	NEW INV. EL.
CB 1	709.80	8" NE 708.48	NONE	-	-
CB 2	709.80	8" SE 708.60	NONE	-	-
CB A	710.05	8" W/E 708.35	NONE	-	-
CB B	710.00	8" E/W 708.30	REMOVE/REPLACE WITH SOLID SEWER PIPE	N/A	708.30
CB C	710.12	8" E 708.35	REMOVE AND PLUG SEWER	-	-
CB D	710.49	8" N 708.39	REMOVE/REPLACE WITH INLINE CB	710.75	707.50
CB E	710.65	8" N 708.39	REMOVE/REPLACE WITH INLINE CB	710.75	708.00
NEW CB 3	-	-	NEW CB (2" ORIFICE ON RISER)	710.25	707.35
NEW CB 4	-	-	NEW CB (2" ORIFICE ON RISER)	710.50	708.28
NEW MH 5	-	-	NEW MH ON EXISTING STS	710.90	707.00

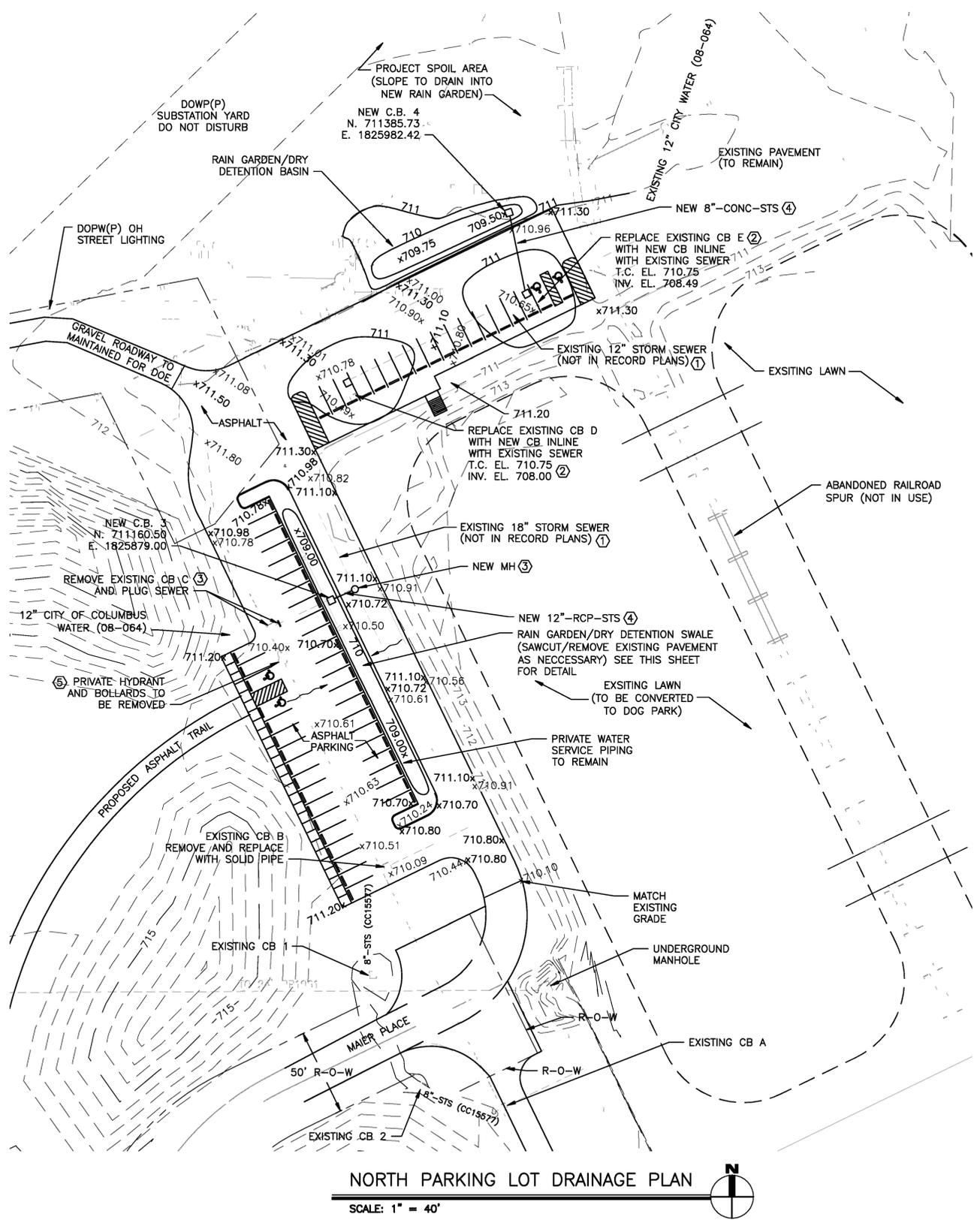
**CODED NOTES:**

- COLUMBUS AND FRANKLIN COUNTY METRO PARKS HAS CLEANED AND TELEVIEWED THIS SEWER WITH THE LOCATION, SIZES, AND ORIENTATION OF THE EXISTING SEWER SYSTEM SHOWN ON THESE PLANS DEVELOPED FROM THESE FIELD INVESTIGATIONS. THE SIZE, ELEVATION, AND SLOPE OF THIS SEWER ARE THEREFORE NOT NECESSARILY COMPLETE OR CORRECT.
- EXISTING CATCH BASINS SHALL BE REMOVED AND REPLACED WITH A NEW STRUCTURE LOCATED ON THE MAIN STORM SEWER LINE. CONTRACTOR TO FIELD VERIFY EXISTING STORM SEWER SIZE, MATERIAL, LOCATION, AND ELEVATION PRIOR TO ORDERING OR INSTALLATION OF THE NEW CATCH BASINS. REPORT THIS INFORMATION TO THE OWNER'S REPRESENTATIVE FOR CONFIRMATION OF THE REQUIRED ELEVATION AND LOCATION OF THE NEW CATCH BASIN STRUCTURES AND ANY NECESSARY ADJUSTMENTS IN FINISH GRADING WITHIN THE PARKING LOT. EXISTING PAVEMENT SURROUNDING THE STRUCTURE SHALL BE SAW CUT AND REMOVED AS NECESSARY TO PERMIT REMOVAL OF THE ENTIRE STRUCTURE. THE CATCH BASIN SHALL BE REMOVED IN ACCORDANCE WITH CCMS ITEM 202.11. THE REMAINING STORM SEWERS SHALL ALSO BE REMOVED IN ACCORDANCE WITH CCMS 202 UP TO THE CONNECTION TO THE STORM MAIN WHERE THE NEW CATCH BASIN SHALL BE LOCATED. SEE DETAIL FOR INSTALLATION OF NEW CATCH BASIN.
- EXISTING CATCH BASINS SHALL BE REMOVED AND THE REMAINING SEWER STUB CAPPED OR PLUGGED. WHERE INDICATED, INSTALL A NEW MANHOLE ON THE EXISTING STORM SEWER MAIN. FIELD VERIFY LOCATION, ELEVATION, AND REQUIRED SIZE OF THE EXISTING STORM SEWER MAIN BEFORE ORDERING THE NEW MANHOLE FOR INSTALLATION.
- CONTRACTOR TO FIELD VERIFY SIZE, LOCATION, AND ELEVATION OF THE EXISTING STORM SEWER AT THE POINT OF THE PROPOSED STORM SEWER CONNECTION PRIOR TO INSTALLATION OF THE NEW SEWER. VERIFY WITH OWNER'S REPRESENTATIVE THE REQUIRED SLOPE, AND ELEVATION OF THE PROPOSED SEWER BEFORE INSTALLATION. NEW STORM SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CCMS ITEM 901 EXCEPT THAT THE SEWER TRENCH SHALL BE EITHER CONCRETE ENCASED, BACKFILLED WITH FLASH FILL OR LOW STRENGTH MORTAR BACKFILL (PER ODOT 613)
- YARD HYDRANT REMOVAL. THE EXISTING YARD/FIRE HYDRANT SHALL BE REMOVED TO THE HYDRANT ISOLATION VALVE AND THE REMAINING PIPING PLUGGED OR CAPPED. BACKFILL THE EXCAVATION AREA WITH COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH CCMS ITEM 304.



**EXISTING CATCH BASIN REPLACEMENT DETAIL**

SCALE: NONE



**NORTH PARKING LOT DRAINAGE PLAN**

SCALE: 1" = 40'

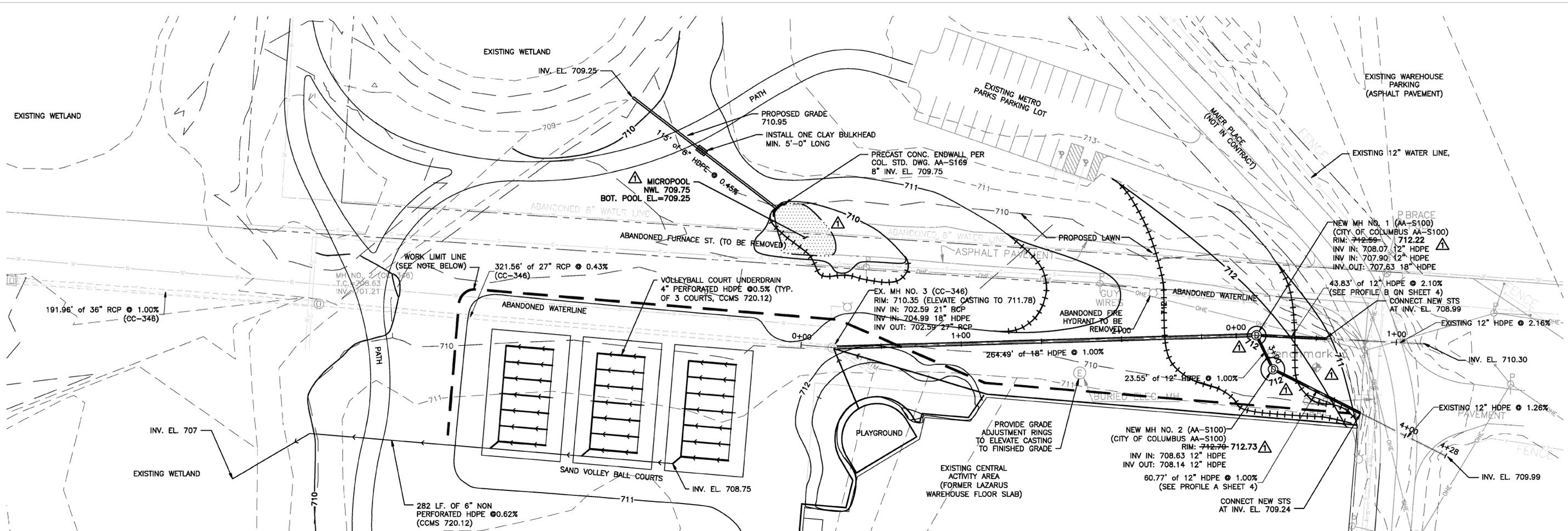
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CITY NO.	COUNTY RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
VOL.	PAGE				

PLANS PREPARED BY:  
  
**BURGESS & NIPLE**

**NORTH PARKING LOT AND TRAILS IMPROVEMENTS**

PROJECT TITLE: PRIVATE DRAINAGE SEWER PLAN FOR SCIOTO AUDUBON METRO PARK IMPROVEMENTS					
DIVISION USE ONLY			OWNER		
			CONTRACTOR		
			INSPECTOR		
AGREEMENT		COMPLETED		SCALE: AS SHOWN	
RPD	CKD	CLD	CON. DR.	SHEET: 3 OF 9	
CONTRACT DRAWING NO. CC-15665				RECORD PLAN NO.	

CITY OF COLUMBUS  
 DEPARTMENT OF PUBLIC UTILITIES  
 DIVISION OF SEWERAGE AND DRAINAGE  
DIVISION USE ONLY



**WORK LIMITS NOTE:**

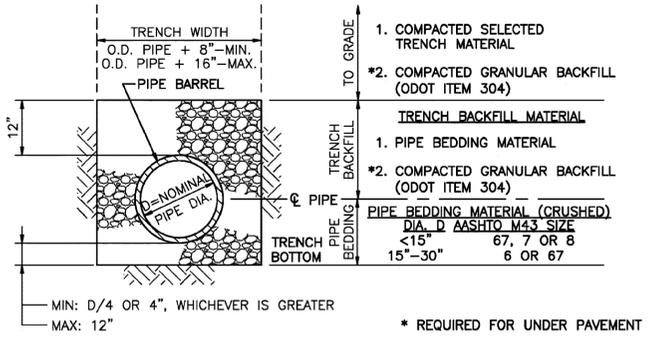
ALL WORK NORTH OF THE WORK LIMIT LINE IS TO BE COMPLETED BY THE CONTRACTOR. CONTRACTOR IS ALSO TO MAKE THE CONNECTION OF THE NEW 18" STORM SEWER TO THE EXISTING MANHOLE. ALL WORK SOUTH OF THE WORK LIMIT LINE IS TO BE COMPLETED BY METRO PARKS.

**CENTRAL ACTIVITY AREA DRAINAGE PLAN**

SCALE: 1" = 30'

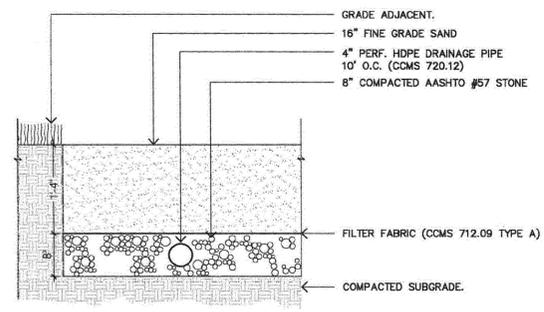
**UTILITY NOTES:**

- EXISTING UTILITIES AND STRUCTURES.** THE LOCATION OF UTILITIES AND STRUCTURES SHOWN ON THE PLANS IS FROM INFORMATION OBTAINED FROM A SITE SURVEY AND THE DESIGN DRAWINGS FOR THE SITE DEVELOPMENT CONTRACT BY METRO PARKS. THE LOCATION OF UTILITIES AND STRUCTURES INDICATED IS NOT NECESSARILY COMPLETE OR CORRECT. THE LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL UTILITIES, SERVICES, STRUCTURES, & APPURTENANCES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- UTILITY COMPANY NOTIFICATION.** CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 2 WORKING DAYS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND AND/OR OVERHEAD LINES. CONTACT OHIO UTILITIES PROTECTION SERVICE, 1-800-362-2764. NONMEMBER UTILITIES MUST BE CONTACTED.
- UTILITY COMPANIES.** CONTRACTOR SHALL COORDINATE WORK WITH THE FOLLOWING UTILITIES AS REQUIRED TO COMPLETE THE PROPOSED IMPROVEMENTS:
  - a. WATER. CITY OF COLUMBUS, DIVISION OF WATER
  - b. SANITARY SEWER. CITY OF COLUMBUS, DIVISION OF SEWERAGE AND DRAINAGE.
  - c. NATURAL GAS. COLUMBIA GAS
  - d. ELECTRICITY. CITY OF COLUMBUS, DIVISION OF ELECTRIC.
  - e. CABLE TELEVISION. TIME WARNER COMMUNICATIONS.
  - f. TELEPHONE. VERIZON
- PIPING MATERIALS.** HDPE - HIGH DENSITY POLYETHYLENE PIPE, SMOOTH WALLED PER CCMS 707.33
- WATER LINE.** THE EXISTING 8" WATER LINE IS ABANDONED AS PART OF WATER LINE PROJECT #08-064, INSTALL NEW STORM SEWER AFTER THIS WATER LINE IS ABANDONED AND REMOVE 6" WATER LINE AS REQUIRED TO PERMIT STORM SEWER INSTALLATION.



**TYPICAL SEWER PIPE INSTALLATION**

SCALE: NONE

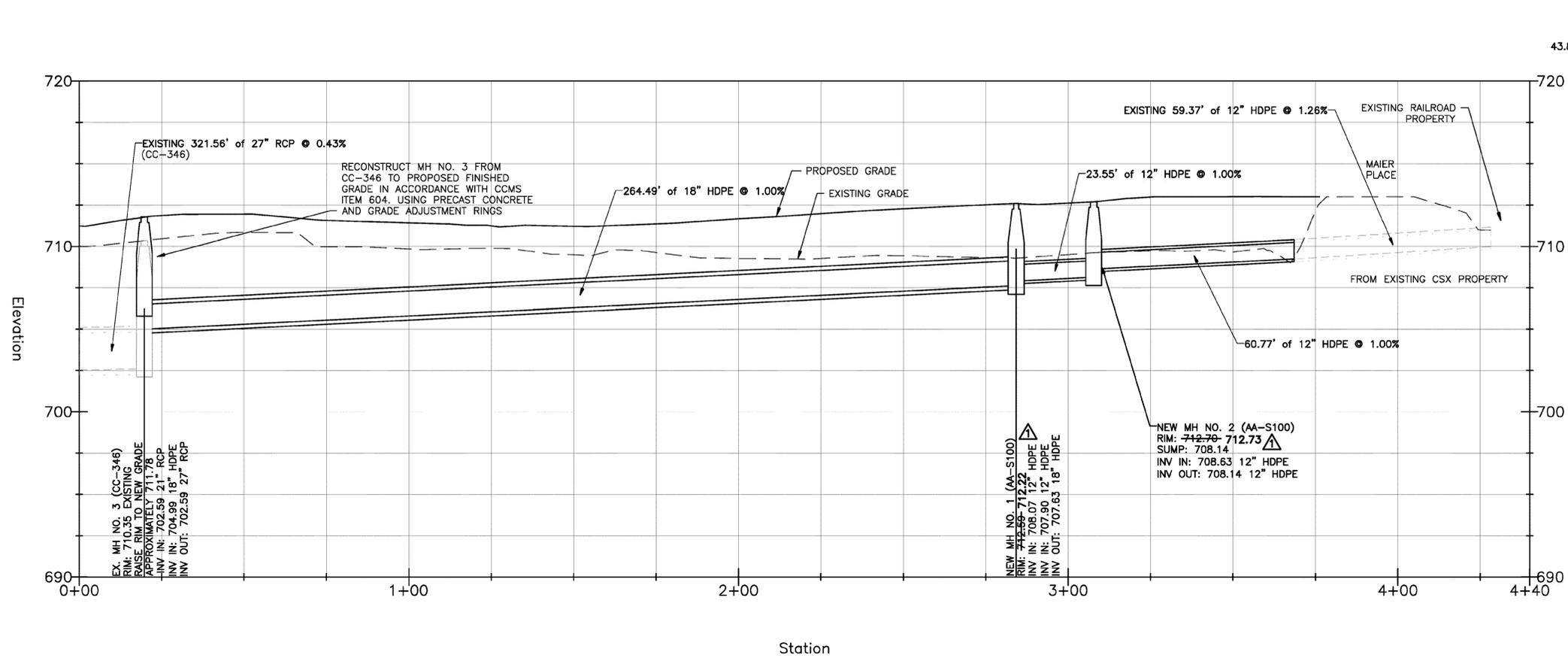


**TYPICAL VOLLEYBALL COURT UNDERDRAIN**

SCALE: NONE

VOLLEYBALL COURTS BY METRO PARKS (NOT IN CONTRACT)

EASEMENT REFERENCE			REVISIONS			PLANS PREPARED BY:		PROJECT TITLE:				CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE	
CITY NO.	COUNTY RECORDER VOL. PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE	BURGESS & NIPLE		PRIVATE DRAINAGE SEWER PLAN FOR SCIOTO AUDUBON METRO PARK IMPROVEMENTS				SCALE: AS SHOWN	SHEET: 4 OF 9
			1	GRADING REVISIONS FOR MICROPPOOL CREATION AND ELEVATION CHANGE AT MANHOLES 1 AND 2	UPA 7/29/11							CONTRACT DRAWING NO. CC-15665	RECORD PLAN NO.
								OWNER		CONTRACTOR			
								INSPECTOR		AGREEMENT COMPLETED			
								RPD CKD		OLD CON. DR.			

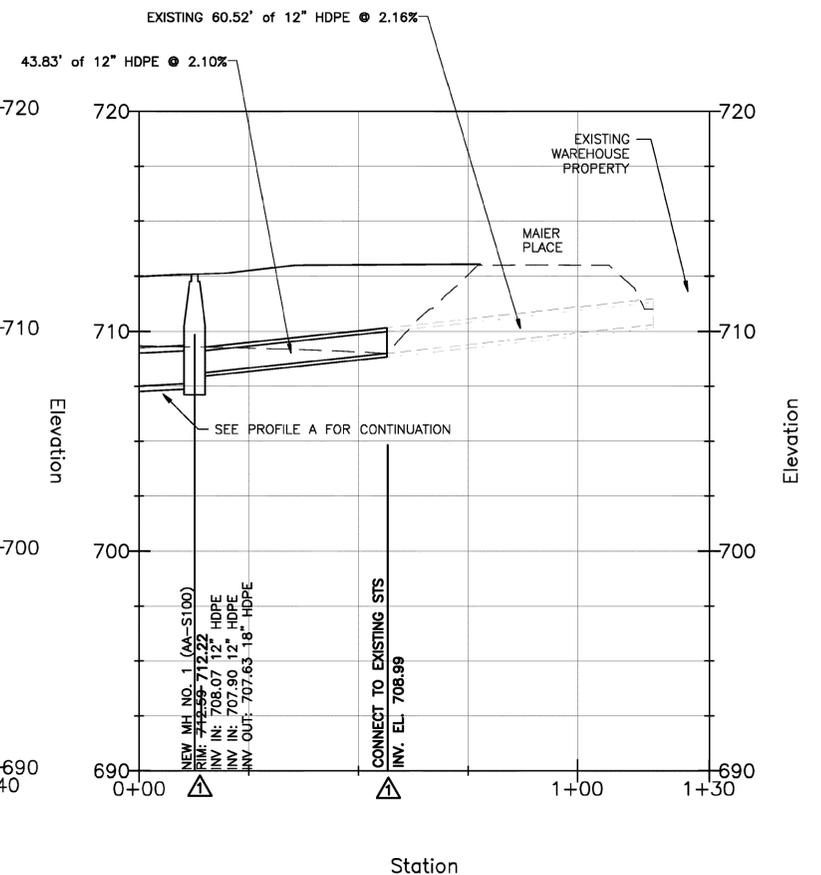


PROFILE A

NORTH LAZARUS YARD STORM SEWER PROFILES

NOTES:

1. STORM SEWERS SHOWN ON THESE PROFILES SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) IN ACCORDANCE WITH CCMS ITEM 901.
2. MANHOLES SHALL BE PRECAST IN ACCORDANCE WITH COLUMBUS STANDARD DRAWING AA-S100 AND AA-S112 EXCEPT THAT CITY NAME AND YEAR IS NOT REQUIRED TO BE CAST IN THE SURFACE OF THE COVER.
3. STORM SEWER BEDDING SHALL BE TYPE 1 PER CITY OF COLUMBUS DRAWINGS. BACKFILL TO EXISTING GRADE WITH EXCAVATED MATERIAL MEETING 901 REQUIREMENTS OR IMPORTED SOIL PER CCMS 203.02



PROFILE B

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER		GRANTOR
	VOL.	PAGE	

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE
1	REVISED T/C EL. FOR MH 1&2 ADDED LABEL FOR CONNECTION POINT FROM MH 1.	QPA 7/29/11

PLANS PREPARED BY:

**BURGESS & NIPLE**

**CENTRAL ACTIVITY AREA  
STORM SEWER PROFILES**

PROJECT TITLE:  
PRIVATE DRAINAGE SEWER PLAN  
FOR  
SCIOTO AUDUBON METRO PARK IMPROVEMENTS

DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT COMPLETED	
RPD	CKD	CLD	CON. DR.

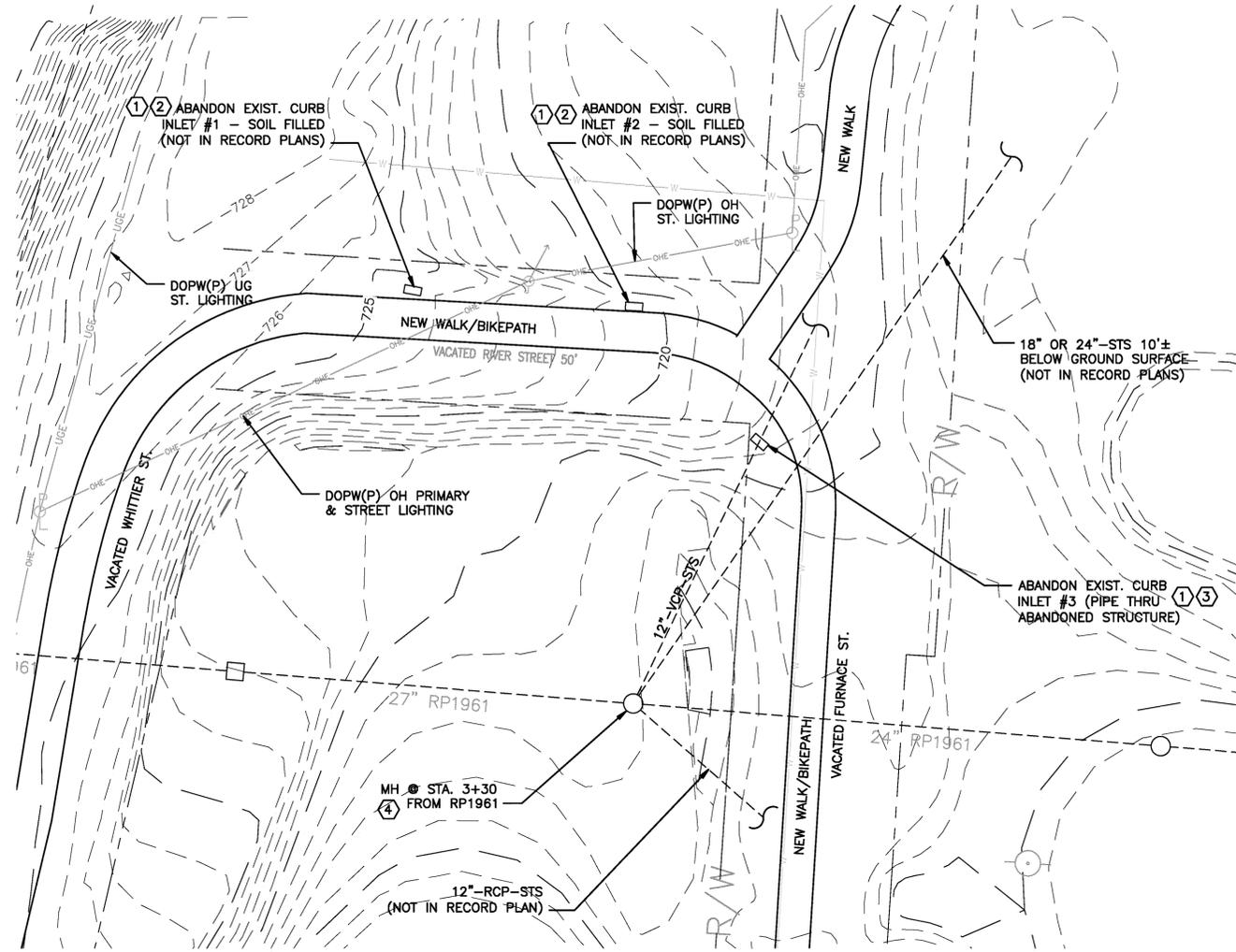
CITY OF COLUMBUS  
DEPARTMENT OF PUBLIC UTILITIES  
DIVISION OF SEWERAGE AND DRAINAGE  
DIVISION USE ONLY

SCALE: AS SHOWN

SHEET: 5 OF 9

CONTRACT DRAWING NO.  
CC-15665

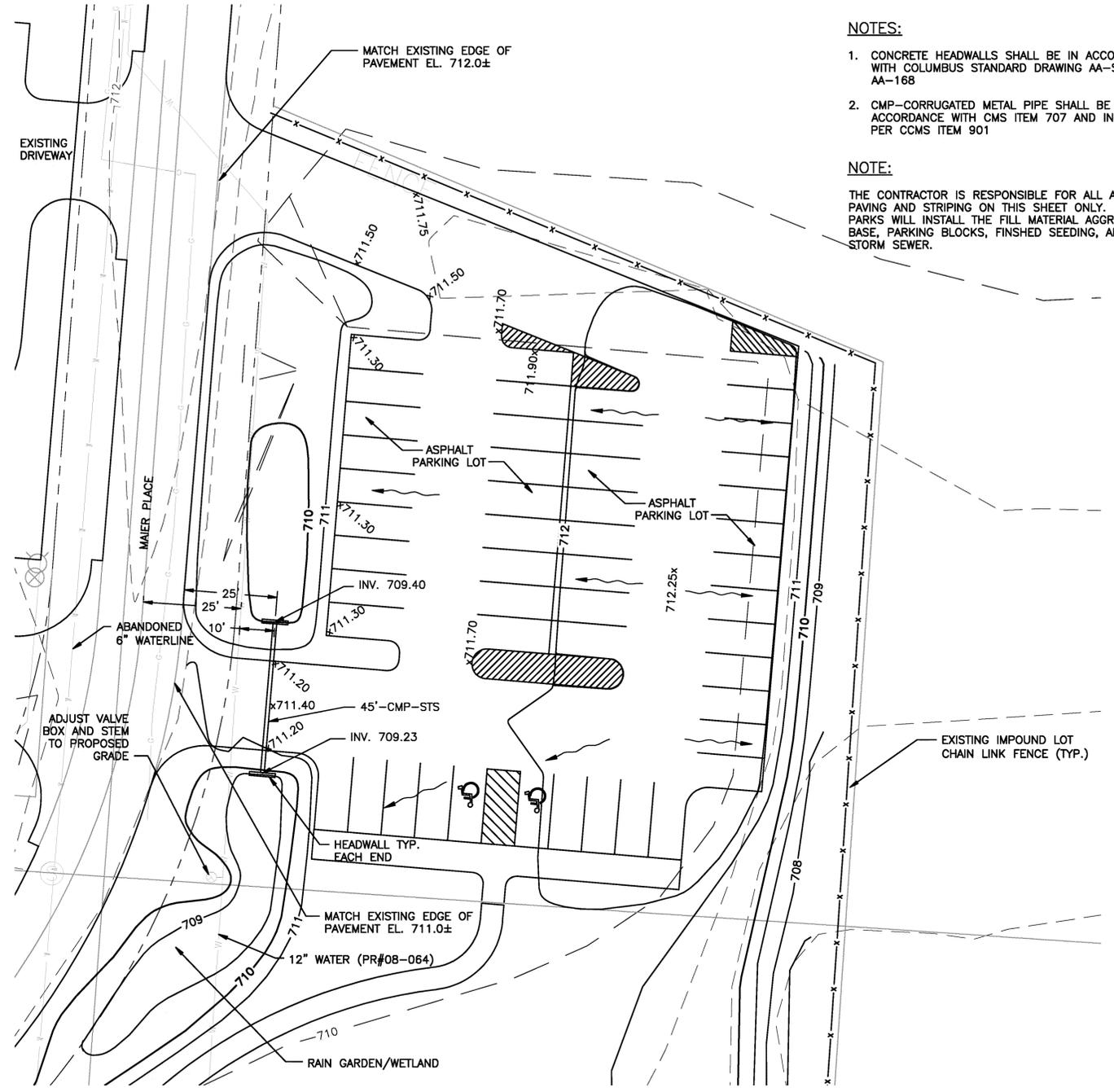
RECORD PLAN NO.



**RIVER STREET INLET ABANDONMENT PLAN**  
 SCALE: 1" = 30'

**RIVER STREET CATCH BASIN CODED NOTES:**

- RECORD PLANS. THE CATCH BASINS AND STORM SEWERS SHOWN ON THIS PLAN THAT ARE NOT SPECIFICALLY INDICATED TO BE PART OF COLUMBUS RP-1961 ARE LOCATED BASED ON FIELD OBSERVATIONS AND ARE NOT NECESSARILY COMPLETE OR CORRECT. CONTRACTOR SHALL CLEAN OUT EACH OF THE THREE CURB INLETS IDENTIFIED FOR REMOVAL AND FIELD VERIFY THE CONNECTING STORM SEWERS. NOTIFY THE OWNER'S REPRESENTATIVE OF THE ACTUAL CONNECTING SEWERS BEFORE PROCEEDING WITH PLUGGING OR REMOVAL OF ANY STORM SEWERS.
- CURB INLETS 1 AND 2. CURB INLET NOS. 1 AND 2 ARE FULL OF SOIL AND DEBRIS. THE CONTRACTOR SHALL REMOVE THE SOIL WITHIN EACH BASIN TO VERIFY THE CONNECTING SEWER LOCATIONS. THE CURB INLET AND DISCHARGE PIPING SHALL BE ABANDONED IN ACCORDANCE WITH CCMS ITEM 202.12, INCLUDING REMOVAL OF THE STRUCTURE TO A MINIMUM OF 1 FOOT BELOW THE FINISHED GROUND SURFACE, PLUGGING THE CONNECTING STORM SEWERS WITH PRECAST CONCRETE STOPPERS, AND BACKFILLING THE REMAINING STRUCTURE CAVITIES ACCORDING TO CCMS ITEM 202.02.
- CURB INLET 3. CURB INLET NO. 3 IS PARTIALLY FULL OF SOIL AND DEBRIS. THE CONTRACTOR SHALL REMOVE THE SOIL TO VERIFY THE CONNECTING SEWER LOCATIONS. THE CURB INLET SHALL BE ABANDONED IN ACCORDANCE WITH CCMS ITEM 202.12 WITH THE EXISTING 12" STORM SEWERS ENTERING THE BASIN CONNECTED WITH A SECTION OF CONCRETE PIPE. IN PLACE ABANDONMENT SHALL INCLUDE REMOVAL OF THE STRUCTURE TO A MINIMUM OF 1 FOOT BELOW FINISHED GRADE, INSTALLATION OF THE CONNECTION PIPING THROUGH THE STRUCTURE, AND BACKFILLING THE REMAINING STRUCTURE CAVITY ACCORDING TO CCMS ITEM 202.02.
- RP-1961 MANHOLE AT STATION 3+30. REMOVE THE EXISTING GRATED CASTING AND REPLACE WITH NEW 22-INCH DIAMETER SOLID MANHOLE COVER PER COLUMBUS STANDARD DRAWING AA-S112. FIELD VERIFY CASTING DIAMETER REQUIRED BEFORE ORDERING.



**ATHLETIC FIELD PARKING LOT**  
 SCALE: 1" = 20'

- NOTES:**
- CONCRETE HEADWALLS SHALL BE IN ACCORDANCE WITH COLUMBUS STANDARD DRAWING AA-S166 OR AA-168
  - CMP-CORRUGATED METAL PIPE SHALL BE IN ACCORDANCE WITH CCMS ITEM 707 AND INSTALLED PER CCMS ITEM 901
- NOTE:**
- THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPHALT PAVING AND STRIPING ON THIS SHEET ONLY. METRO PARKS WILL INSTALL THE FILL MATERIAL AGGREGATE BASE, PARKING BLOCKS, FINISHED SEEDING, AND STORM SEWER.

EASEMENT REFERENCE			REVISIONS		
CITY NO.	COUNTY RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL. PAGE				

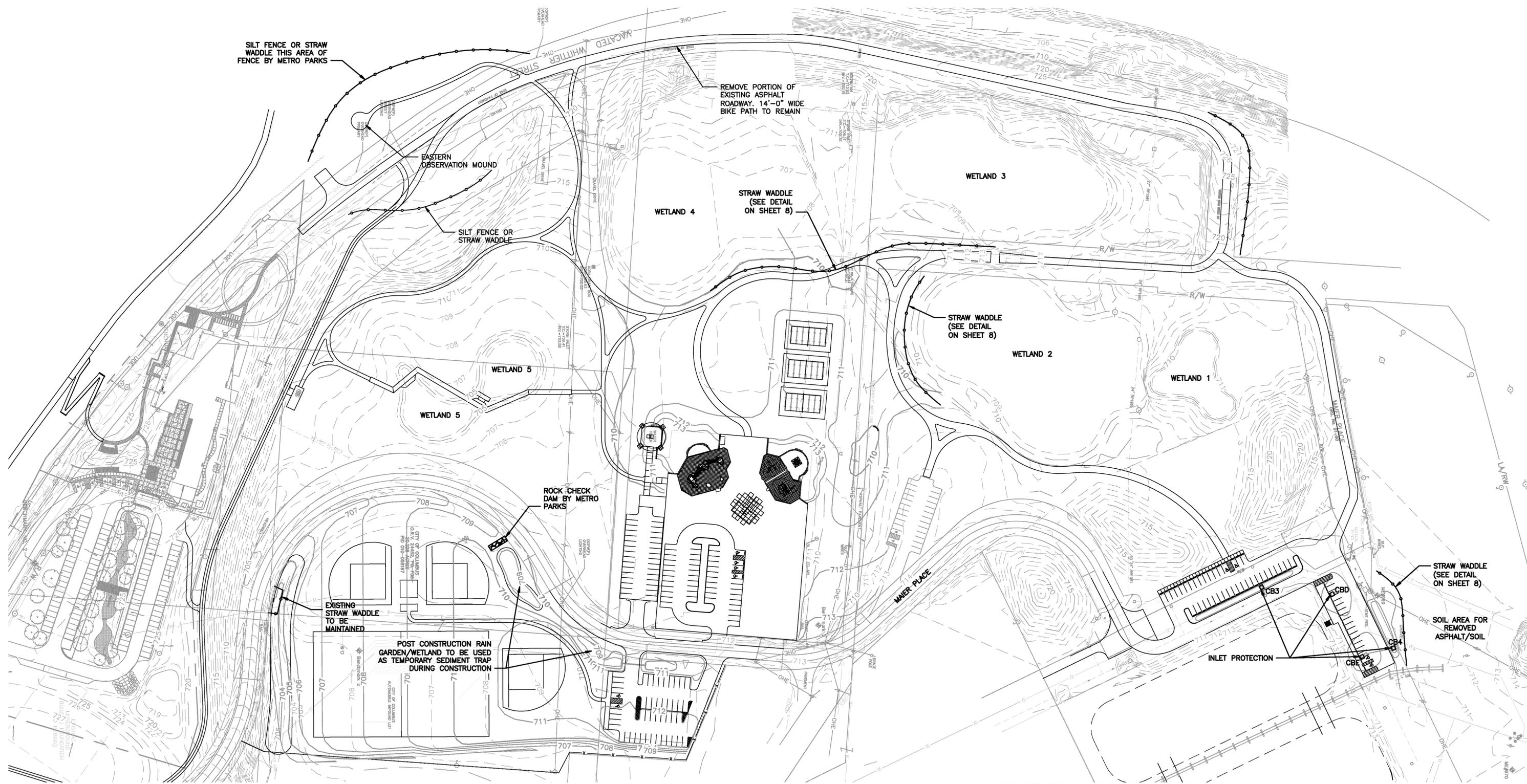
PLANS PREPARED BY:		
 <b>BURGESS &amp; NIPLE</b>		

PROJECT TITLE:  
 PRIVATE DRAINAGE SEWER PLAN  
 FOR  
 SCIOTO AUDUBON METRO PARK IMPROVEMENTS

ATHLETIC FIELD PARKING LOT

DIVISION USE ONLY				OWNER			
				CONTRACTOR			
				INSPECTOR			
AGREEMENT		COMPLETED		AGREEMENT		COMPLETED	
RPD	CKD	CLD	CON. DR.	RPD	CKD	CLD	CON. DR.

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE <small>DIVISION USE ONLY</small>	
SCALE: AS SHOWN	SHEET: 6 OF 9
CONTRACT DRAWING NO. CC-15665	RECORD PLAN NO.



**SEDIMENT AND EROSION CONTROL PLAN**

SCALE: 1" = 80'



NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL SEDIMENT AND EROSION CONTROL FEATURES SHOWN EXCEPT THOSE INDICATED AS BEING BY METRO PARKS. THE CONTRACTOR SHALL MAINTAIN THESE FEATURES UNTIL THEIR SITE ACTIVITIES ARE COMPLETE. METRO PARKS WILL REMOVE ALL SEDIMENT AND EROSION CONTROL FEATURES AFTER PERMANENT SEEDING HAS BEEN ESTABLISHED

EASEMENT REFERENCE			REVISIONS		
CITY NO.	COUNTY RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
	VOL.	PAGE			

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLANS PREPARED BY:

**BURGESS & NIPLE**

**SEDIMENT AND EROSION CONTROL PLAN**

PROJECT TITLE:			
PRIVATE DRAINAGE SEWER PLAN FOR GRANGE INSURANCE AUDUBON CENTER			
DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
AGREEMENT	COMPLETED		
RPD	CKD	CLD	CON. DR.

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE <small>DIVISION USE ONLY</small>	
SCALE: AS SHOWN	SHEET: 7 OF 9
CONTRACT DRAWING NO. CC-15665	RECORD PLAN NO.

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**GENERAL NOTES:**

- THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD SPECIFICATIONS AND THE OWNER. THE CONTRACTOR SHALL BE CONSIDERED THE DEVELOPER OF THE STORMWATER DISCHARGE.
- THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE WATER LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS, WHETHER SPECIFICALLY SHOWN ON THE PLANS OR NOT.
- ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT FILTERS, SILT FILTER FENCE, ROCK CHECK DAMS, AND TEMPORARY GROUND COVER.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
- DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 45 DAYS OR MORE SHALL BE SEEDED WITHIN 7 CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.
- ALL DENUDED AREAS, INCLUDING STOCKPILED TOPSOIL AND EXCAVATED MATERIAL, ARE TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING, OR COVERED WITH ANCHORED STRAW MULCH.
- FINAL GRADING WILL BE CONSISTENT WITH PRECONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.
- REMOVE ONLY THE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED TO PERMIT ACTUAL CONSTRUCTION. PROTECT THE REMAINING TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.
- BACKFILL TRENCHES IMMEDIATELY AFTER USE. SEED AND MULCH TRENCH AREA WITHIN 1 WEEK AFTER AREA OR SECTION HAS BEEN OPENED.
- SETTLING FACILITIES, SEDIMENT FILTERS, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING OR CONSTRUCTION AND WITHIN 7 DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RESTABILIZED.
- STORM SEWER INLET PROTECTION - ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE PROJECT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT, UNLESS THE STORM SEWER SYSTEM DRAINS TO A SETTLING FACILITY. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS INDICATED IN THE PLANS AND AS DIRECTED BY THE CITY ENGINEER.
- CONSTRUCTION ACCESS ROUTES - MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, OR ONTO PUBLIC ROADS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS ELIMINATED. SEE STABILIZED CONSTRUCTION ENTRANCE DETAIL, THIS SHEET. 14. SLOUGHING AND DUMPING - NO SOIL, ROCK, DEBRIS, OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE CITY ENGINEER. UNSTABLE SOILS PRONE TO SLIPPING OR LANDSLIDING SHALL NOT BE GRADED, EXCAVATED, FILLED, OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS DONE IN ACCORDANCE WITH A QUALIFIED PROFESSIONAL ENGINEER'S RECOMMENDATIONS TO CORRECT, ELIMINATE, OR ADEQUATELY ADDRESS THE PROBLEMS.
- MAINTENANCE AND INSPECTION - ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. THEY SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND INSPECTION OF ALL EROSION/SEDIMENT CONTROL DEVICES REQUIRED BY THE CITY ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. INSPECTIONS SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE CITY ENGINEER, ONCE EVERY 7 CALENDAR DAYS AND/OR WITHIN 24 HOURS AFTER A RAIN EVENT OF GREATER THAN 0.5 INCHES IN A 24-HOUR PERIOD. THESE INSPECTIONS SHALL IDENTIFY AREAS CONTRIBUTING TO STORMWATER DISCHARGES ASSOCIATED WITH THE PROJECT; EVALUATE THE ADEQUACY, IMPLEMENTATION, AND MAINTENANCE OF EXISTING AND PROPOSED EROSION/SEDIMENTATION MEASURES; AND DETERMINE WHETHER ADDITIONAL MEASURES ARE REQUIRED. ACCEPTABLE INSPECTION REPORTS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE CITY ENGINEER WITHIN 48 HOURS OF INSPECTION COMPLETION. THE REPORT SHALL CONTAIN THE RESULTS OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN, A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE PLAN, AND IDENTIFYING ANY INCIDENTS OF NONCOMPLIANCE.
- OUTFLOWS FROM DEWATERING OPERATIONS - ALL WATER PRODUCED FROM CLEANING AND DEWATERING OPERATIONS, WHETHER SPECIFICALLY FROM TRENCH DEWATERING OPERATIONS OR FROM MORE EXTENSIVE DEWATERING OPERATIONS, SHALL BE DISCHARGED IN SUCH A MANNER AS TO ELIMINATE EROSION FROM SUCH DISCHARGE.
- ADDITIONAL CONTROLS - THE CONTRACTOR SHALL ENSURE THAT NO SEDIMENTS ARE TRACKED OFF-SITE BY CONSTRUCTION EQUIPMENT, VEHICLES, AND WORKERS. THE CONTRACTOR SHALL ALSO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO ANY STORMWATER FLOW.
- TEMPORARY EROSION AND SEDIMENT CONTROL PLAN AVAILABILITY AND UPDATES - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN ON-SITE. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE TO PERFORM ALL UPDATES AND ADJUSTMENTS TO THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN.

**FILTER FABRIC FENCE:**

THIS SEDIMENT BARRIER UTILIZES SYNTHETIC FILTER FABRIC IN ACCORDANCE WITH ODOT ITEM 712.09, TYPE C. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

- THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
- 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 CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY SEALED.
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- 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 WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
- THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

**MAINTENANCE:**

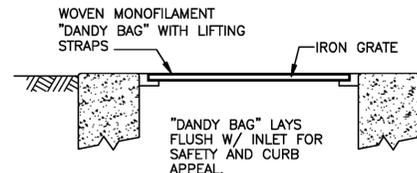
SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND 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, AND SEEDED.

**SITE SECURITY FENCE:**

SECURITY FENCE. THE SITE SECURITY FENCE SHALL BE OF HIGHLY VISIBLE, POLYPROPYLENE CONSTRUCTION THAT IS A MINIMUM OF 4 FEET IN HEIGHT AND FULLY STABILIZED FOR ULTRAVIOLET RESISTANCE. FENCE SHALL BE STAPLED OR OTHERWISE SECURELY ATTACHED TO WOOD OR STEEL FENCE POSTS AT A MAXIMUM SPACING OF 10 FEET ON CENTER OR MORE FREQUENT AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE A VISIBLE WARNING. SIGNS SHALL BE POSTED ALONG THE FENCE AT 100 FOOT INTERVALS AND AT ALL POINTS OF ACCESS INDICATING TO THE PUBLIC TO KEEP OUT-AUTHORIZED PERSONNEL ONLY PERMITTED INSIDE THE FENCE.



**INLET SEDIMENT FILTER**

SCALE: NONE

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

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

DANDY PRODUCTS INC.  
 2011 R HARRISBURG PIKE, GROVE CITY, OH 43123  
 (800) 591-2284 (614) 875-2284 FAX (614) 875-6305

PLAN PREPARED BY:

**BURGESS & NIPLE**

**SILT FENCE NOTES:**

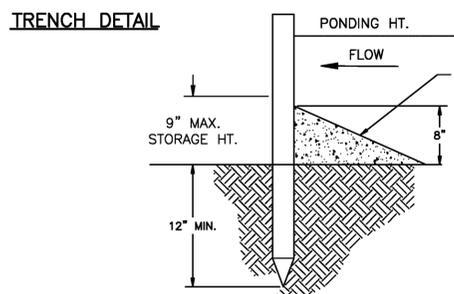
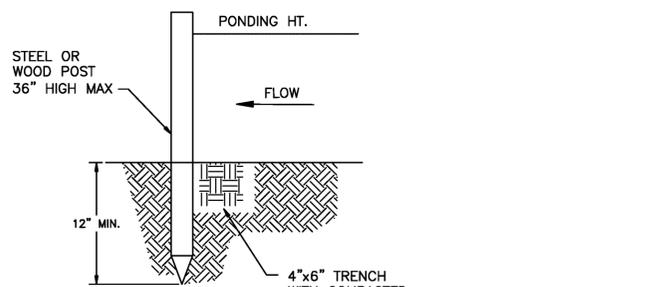
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. (9" MAX. RECOMMENDED STORAGE HEIGHT).
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

**ROCK CHECK DAMS:**

- ROCK CHECK DAMS SHALL BE CONSTRUCTED OF ODOT TYPE D STONE TO HEIGHT OF 2'-0" AND INCLUDE A SPLASH APRON AS SHOWN.
- UPON STABILIZATION OF THE DRAINAGE DITCH WITH PERMANENT VEGETATION, THE ROCK CHECK DAMS SHALL BE REMOVED.

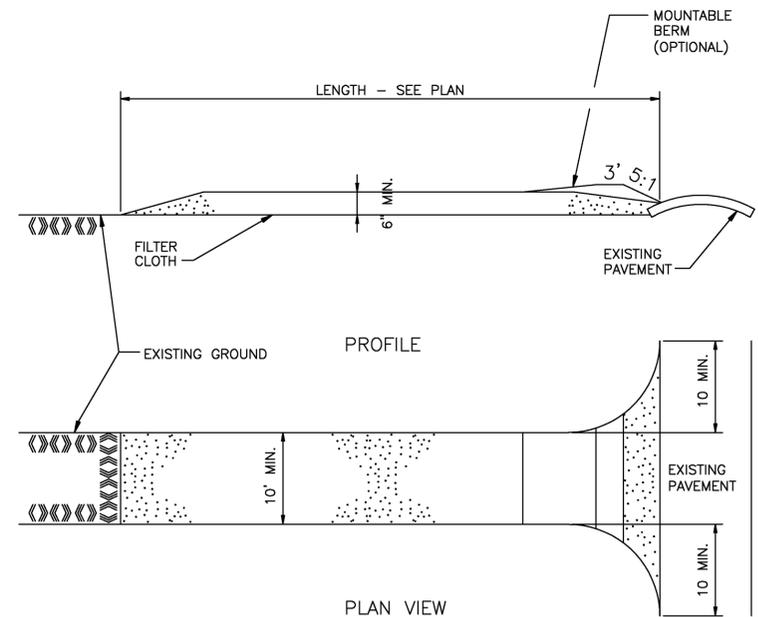
**STABILIZED CONSTRUCTION ENTRANCE NOTES:**

- STONE SIZE - USE 2 INCH STONE.
- LENGTH - AS REQUIRED (MINIMUM OF 50 FEET).
- THICKNESS - NOT LESS THAN 6 INCHES.
- WIDTH - 10 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER FABRIC - WILL BE PLACED OVER THE ENTIRE SUBGRADE PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.
- 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 PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS NEEDED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN ON-SITE CONTAINMENT AREA.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED AFTER EACH RAIN.
- THE STABILIZED CONSTRUCTION ENTRANCE DESCRIBED IS A MINIMUM STANDARD FOR INGRESS AND EGRESS FROM THE CONSTRUCTION SITE ONTO PUBLIC RIGHT-OF-WAY. THE CONTRACTOR MAY VARY THE CONSTRUCTION AS NEEDED FOR SPECIFIC SITE CONDITIONS PROVIDED THAT ITS FUNCTION SATISFIES THE INTENT DESCRIBED HEREIN AS DETERMINED BY THE CITY ENGINEER. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.



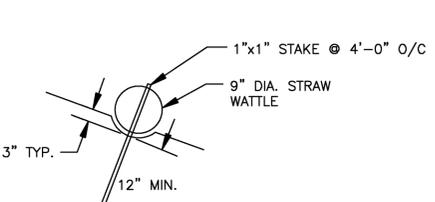
**INSTALLATION WITHOUT TRENCHING**

SCALE: NONE



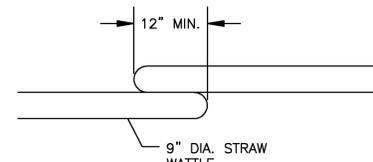
**STABILIZED CONSTRUCTION ENTRANCE**

SCALE: NONE



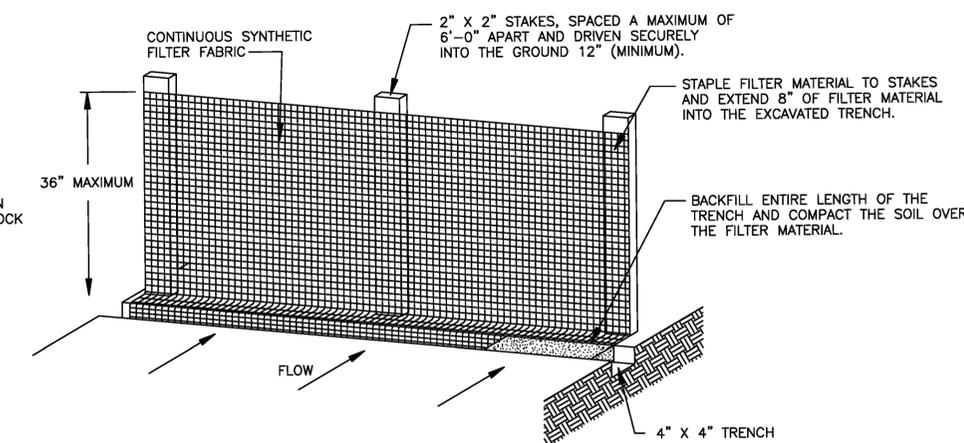
**STRAW WATTLE DETAIL**

SCALE: NONE



**ADJACENT WATTLE DETAIL**

SCALE: NONE



**SILT FENCE DETAIL**

SCALE: NONE

EASEMENT REFERENCE				REVISIONS			PLAN PREPARED BY:		PROJECT TITLE:		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE	
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE			SCIOTO AUDUBON METRO PARK SOUTH WETLAND DEVELOPMENT		DIVISION OF SEWERAGE AND DRAINAGE <small>DIVISION USE ONLY</small>	
	VOL.	PAGE										
											DIVISION USE ONLY OWNER CONTRACTOR INSPECTOR AGREEMENT RPD CKD CLD CON. DR.	SCALE: AS SHOWN SHEET: 8 OF 9 RECORD PLAN NO.
											CONTRACT DRAWING NO. CC-15665	

**TRAFFIC NOTES**

**A. TEMPORARY TRAFFIC CONTROL ITEMS**

ALL TEMPORARY TRAFFIC CONTROL (TTC) DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS (CURRENT EDITION). COPIES ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43223. NOTE: ALL DEVICES SHALL COMPLY, FOR CONDITION AND LOCATION, WITH THE CURRENT EDITION OF THE NCHRP 350 CRASH TESTING GUIDELINES.

CONSTRUCTION OPERATIONS IMPACTING MAJOR PLACE TRAFFIC SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY THE TRANSPORTATION DIVISION INSPECTOR. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

THE CONTRACTOR SHALL GIVE ADVANCE NOTIFICATION (WRITTEN AND VERBALLY) TO THE TEMPORARY TRAFFIC CONTROL COORDINATOR AT 645-6269 OR 645-5845, THE COLUMBUS PAVING THE WAY PROGRAM COORDINATOR AT 645-7283 OR 645-8016, AND THE PROJECT MANAGER, INFORMING THEM OF ALL UPCOMING TRAFFIC PATTERN CHANGES. NOTIFICATION SHALL INCLUDE, BUT NOT BE LIMITED TO, WHAT, WHERE, WHEN, AND HOW PEDESTRIAN AND VEHICULAR TRAFFIC WILL BE AFFECTED, AND THE TEMPORARY TRAFFIC CONTROL PROCEDURES THE CONTRACTOR IS PLANNING TO USE. THE TYPE OF TRAFFIC CHANGE SHALL DETERMINE THE LENGTH OF ADVANCE NOTIFICATION REQUIRED:

TYPE OF CHANGE	ADVANCE NOTIFICATION NEEDED
DETOURS/ROAD CLOSURES	30-DAY NOTIFICATION PRIOR TO CLOSURE.
LANE CLOSURES LASTING 2 WEEKS OR MORE	2-WEEKS
LANE CLOSURES OF LESS THAN 2 WEEKS	3-DAYS
LANE CLOSURES OF 2 DAYS OR LESS	1-DAY
ANY OTHER UNFORESEEN IMPACTS TO TRAFFIC SHALL BE IMMEDIATELY REPORTED AS THEY OCCUR.	

STEADY-BURNING TYPE C LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT. ONLY 42" REFLECTORIZED CHANNELIZING DEVICES (CONES) SHALL BE PERMITTED FOR NIGHTTIME WORK WITH THE APPROVAL OF THE TTC COORDINATOR AT 645-6269 OR 645-5845 PER O.D.O.T. STANDARDS.

ALL TRENCHES WITHIN THE ROAD RIGHT-OF-WAY SHALL BE BACKFILLED OR SECURELY PLATED PER (CITY OF COLUMBUS GENERAL POLICY ON STEEL PLATE USAGE DATED 11/15/2006 AND 2007 STD. DWG. 1441) DURING NON-WORKING HOURS.

ACCESS FOR PEDESTRIAN AND VEHICULAR TRAFFIC TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. WHERE PROPERTIES ARE ACCESSED BY ONLY ONE DRIVEWAY, PARTIAL WIDTH CONSTRUCTION SHALL BE USED. WITH THE WRITTEN PERMISSION OF THE PROPERTY OWNER, DRIVEWAYS OR LEAD WALKS MAY BE CLOSED. THE PERMISSION LETTERS SHALL BE SUBMITTED TO THE PROJECT ENGINEER BEFORE THE COMMENCEMENT OF THE CLOSURE.

NO EXCAVATION SHALL BE MADE WITHIN FIVE (5) FEET OF ANY POLE THAT SUPPORTS TRAFFIC SIGNAL DISPLAYS OR SIGNS BY MAST ARM OR SIGNAL SPAN. EXCAVATION WITHIN EIGHT (8) FEET, BUT MORE THAN FIVE (5) FEET SHALL REQUIRE ADDITIONAL SUPPORT (DOWN GUY, HEAD GUY, BASE GUY, ETC.). THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION DIVISION SIGNALS MANAGEMENT PERSONNEL AT 645-8418 (CELL 419-4501) AT LEAST FORTY-EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE BEGINNING OF SUCH EXCAVATION SO THAT THE CITY COULD APPROVE THE STABILIZATION SETUP BY THE CONTRACTOR. STABILIZATION WILL BE DONE BY THE CONTRACTOR AT THE OWNERS'/CONTRACTING AGENCY'S EXPENSE.

ANY WORK DONE BY THE TRANSPORTATION DIVISION, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.

**B. EXISTING PERMANENT TRAFFIC CONTROL ITEMS**

ANY WORK DONE BY THE TRANSPORTATION DIVISION, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLATION AND/OR REPLACEMENT OF ALL PERMANENT TRAFFIC CONTROL DEVICES DAMAGED OR REMOVED DURING CONSTRUCTION. PERMANENT TRAFFIC CONTROL NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE REPLACED IMMEDIATELY.

PERMANENT STRIPING OR CLASS 1 TEMPORARY STRIPING SHALL BE INSTALLED NO LATER THAN FOURTEEN (14) CALENDAR DAYS AFTER THE FINAL PAVING COURSE IS COMPLETED. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE STRIPING CONTRACTOR TO INSURE THE PERMANENT STRIPING IS INSTALLED WITHIN THE FOURTEEN (14) CALENDAR DAY LIMIT.

**GENERAL TRAFFIC NOTES**

**TRAFFIC CONTROL RESTORATION.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL EXISTING TRAFFIC CONTROLS AFFECTED BY THE WORK TO THEIR PREVIOUS CONDITION, INCLUDING PERMANENT PAVEMENT MARKINGS ON REPAVED PORTIONS OF THE STREET, IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CMSC AND THE REQUIREMENTS OF THE DIVISION OF TRAFFIC ENGINEERING. THE COST FOR RESTORING EXISTING TRAFFIC CONTROLS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

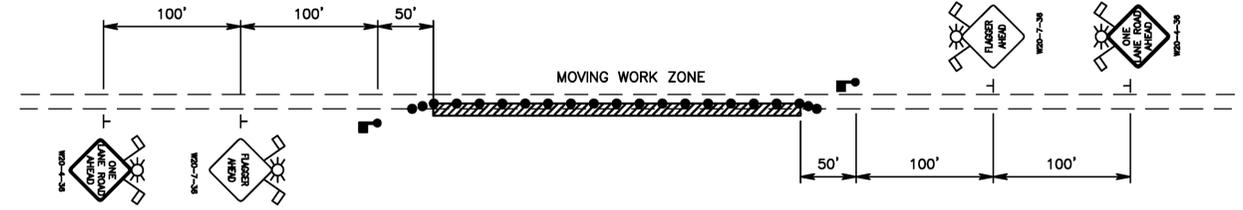
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REINSTALLATION AND/OR REPLACEMENT OF ALL PERMANENT TRAFFIC CONTROL DEVICES DAMAGED OR REMOVED DURING THE CONSTRUCTION. PERMANENT TRAFFIC CONTROL NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE REPLACED IMMEDIATELY.

**TRAFFIC DIVISION WORK.** ANY WORK DONE BY THE TRAFFIC ENGINEERING AND PARKING DIVISION INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF THE NEGLIGENCE OF THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.

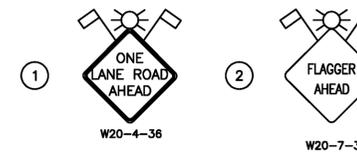
**MAINTAINING TRAFFIC.** THE CONTRACTOR SHALL PROVIDE ALL FACILITIES AND PERSONNEL REQUIRED FOR MAINTAINING TRAFFIC DURING CONSTRUCTION, THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS SHALL BE MAINTAINED THROUGHOUT THIS PROJECT BY THE CONTRACTOR. CONTRACTOR SHALL ENSURE THAT ANY PERMANENT TRAFFIC CONTROLS OR DIRECTIONAL SIGNS THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS AND SIGNS ARE ADDRESSED IN THE FIELD. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED, AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, AND IMPROPERLY PLACED SIGNS.

**TYPICAL CLOSURE FOR SINGLE LANE WITH TWO-WAY OPERATION**



**MAINTENANCE OF TRAFFIC DEVICE LEGEND**



● DRUMS WITH TYPE "C" STEADY BURNING BARRICADE WARNING LIGHT (TAPERS ONLY) OR 42" GRABBER CONES (FOR TANGENT SECTIONS);

DRUM/CONE SPACING (UNLESS OTHERWISE NOTED ON PLAN):

- TAPERS - 20'
- TANGENTS - 10'
- TURNING RADII - 6'

EASEMENT REFERENCE			REVISIONS			PLANS PREPARED BY: 	PROJECT TITLE:		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE <small>DIVISION USE ONLY</small>	
CITY NO.	COUNTY RECORDER VOL. PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE		PRIVATE DRAINAGE SEWER PLAN FOR GRANGE INSURANCE AUDUBON CENTER		SCALE: AS SHOWN	SHEET: 9 OF 9
							DIVISION USE ONLY	OWNER		
								CONTRACTOR		
								INSPECTOR		
								AGREEMENT	COMPLETED	
								RPD	CKD	CON. DR.
										CONTRACT DRAWING NO. CC-15665
										RECORD PLAN NO.