

PROJECT DESCRIPTION

THIS PROJECT INVOLVES WORK WITHIN THE PUBLIC RIGHT-OF-WAY FOR A PROPOSED SITE DEVELOPMENT. CONSTRUCTION WILL CONSIST OF MODIFICATIONS TO EXISTING ACCESS POINTS ON SAWMILL ROAD AND BANKER DRIVE, INSTALLATION OF ADA COMPLIANT CURB RAMPS, INSTALLATION OF PEDESTRIAN SIGNAL HEADS, RELOCATION OF EXISTING PUSH BUTTON PEDESTAL, PAVEMENT MARKING MODIFICATIONS, INSTALLATION OF SIDEWALK AND LANDSCAPE STRIP ALONG SAWMILL ROAD AND BANKER DRIVE, AND SIGNAGE IMPROVEMENTS.

OWNER

6515 SAWMILL ROAD, LLC 753 SOUTH FRONT STREET COLUMBUS, OH 43206 CONTACT: AVERN ABROMS

BENCHMARKS

CHISELED SQUARE ON THE SOUTHEAST CORNER OF A CATCH BASIN, 5 FEET EAST OF THE NORTHEAST CORNER OF PROJECT SITE, 11 FEET WEST OF THE WEST EDGE OF PAVEMENT OF SAWMILL ROAD ELEVATION = 904.27 (NAVD 88)

CHISELED "X" ON WEST BOLT AT THE BASE OF A METAL TRAFFIC SIGNAL POLE AT THE NORTHWEST CORNER OF SAWMILL ROAD AND BANKER DRIVE ELEVATION = 906.52 (NAVD 88)

CHISELED "X" ON THE NORTHEAST BOLT OF 1ST FIRE HYDRANT WEST OF SAWMILL ROAD, 3 FEET NORTH OF NORTH CURB OF BANKER DRIVE ELEVATION = 909.37 (NAVD 88)

STATE PLANE COORDINATES - OHIO SOUTH ZONE* REFERENCE POINT COORDINATE LOCATIONS REF. PT. **DESCRIPTION** NORTHING | EASTING IRS ₹ REBAR CESO TRAV CAP 765500.449 1803037.635 IRS & REBAR CESO TRAV CAP 1803006.413 765291.920 IRS & REBAR CESO TRAV CAP 765305.443 1802771.670

*HORIZONTAL REF DATUM = NAD83 (NSRS 2011 ADJUSTMENT)

BASIS OF STATIONING

CENTERLINE OF SAWMILL ROAD (3411-D) AND CENTERLINE OF BANKER

BASIS OF BEARINGS

THE BASIS OF BEARING IS BASED ON A BEARING OF SOUTH 02°29'25" WEST FOR A PORTION OF THE WEST RIGHT OF WAY LINE OF SAWMILL AS ESTABLISHED BY A SERIES OF GPS OBSERVATIONS USING ODOT VRS NETWORK, BASED ON NAD 83 (2011), OHIO STATE PLANE SOUTH ZONE.

Kimley **Horn

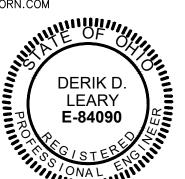
ENGINEER

REGISTERED ENGINEER NO.

KIMLEY-HORN & ASSOCIATES, INC. 2400 CORPORATE EXCHANGE DR, STE. 120 COLUMBUS, OH 43231 CONTACT: DERIK LEARY, P.E. PHONE: (614) 454-6697 DERIK.LEARY@KIMLEY-HORN.COM

SURVEYOR

2800 CORPORATE EXCHANGE DR, STE. 160 COLUMBUS, OH 43231 CONTACT: JAY KRAFT PHONE: (614) 701-0431 KRAFT@CESOINC.COM



5/5/2020

CITY OF COLUMBUS, OHIO

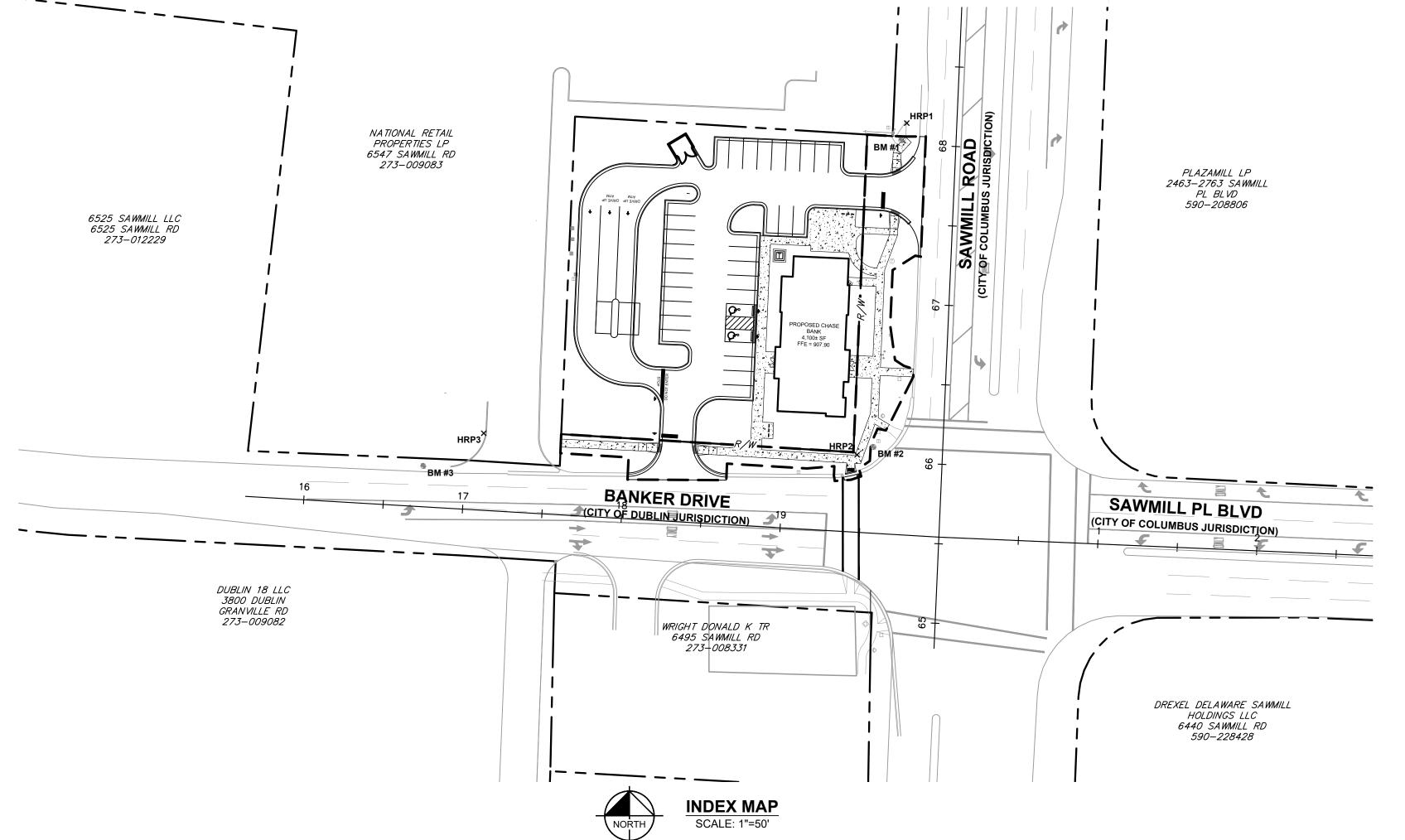
DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION **IMPROVEMENTS OF**

SAWMILL ROAD

FROM A POINT ±215' NORTH OF THE INTERSECTION OF BANKER DR AND SAWMILL RD

BANKER DRIVE

FROM A POINT ±170' WEST OF THE INTERSECTION | OF BANKER DR AND SAWMILL DR



0.97 AC

0.20 AC 0.05 AC 0.09 AC

SITE DATA

TOTAL SITE AREA:

NPDES PERMIT NO.:

DISTURBED RIGHT-OF-WAY AREA:

PRE-DEVELOPED IMPERVIOUS AREA:

POST-DEVELOPED IMPERVIOUS AREA:

ZONING (CITY OF DUBLIN)

DEVELOPMENT NAME: C-COMMERCIAL ZONING ADDRESS: 6515 SAWMILL RD

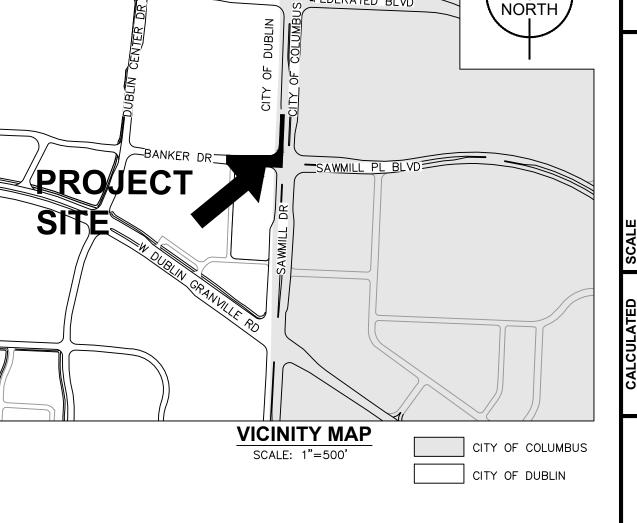
STANDARD CONSTRUCTION DRAWINGS							
ODOT	CITY OF C	OLUMBUS					
MT-95.31 7/19/19	1441 4/22/19	4000 8/10/17					
MT-101.90 7/21/17	1500 9/15/15	4100 10/1/18					
	1510 9/15/15	4101 8/10/17					
	2145 3/30/18	4105 8/10/17					
	2202 12/21/18	4163 6/1/18					
	2230 4/30/18	4200 8/1/15					
	2300 4/30/18	4230 10/1/18					
	2319 3/30/18						

REV NUM

REVISION DESCRIPTION

SHEET(S)

INITIAL



-FEDERATED BLVD

2018 SPECIFICATIONS

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMSC), 2018 EDITION, INCLUDING ALL REVISIONS AND SUPPLEMENTS IN EFFECT AT THE TIME OF SIGNATURE BY THE DIRECTOR OF PUBLIC SERVICE, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS NOTED OTHERWISE.

CITY OF COLUMBUS APPROVALS

CITY OF COLUMBUS SIGNATURES ON THIS PLAN SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER

CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION	DATE
ADMINISTRATOR, DIVISION OF POWER	DATE
ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE	DATE
ADMINISTRATOR, DIVISION OF WATER	DATE
DIRECTOR, DEPARTMENT OF RECREATION AND PARKS	DATE
FIRE PREVENTION BUREAU, DIVISION OF FIRE	DATE

CITY OF DUBLIN APPROVALS

CITY OF DUBLIN SIGNATURES ON THIS PLAN SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

CITY ENGINEER	DATE



XXXX-E

INSPECTION

INSPECTION ON THIS PROJECT SHALL BE PROVIDED BY REPRESENTATIVES OF THE CITY OF COLUMBUS.

PRIOR TO CONSTRUCTION, THE DEVELOPER SHALL ENTER INTO A CONSTRUCTION AGREEMENT, POST SURETY AND DEPOSIT INSPECTION FEES WITH THE CITY OF COLUMBUS PUBLIC SERVICE DEPARTMENT FOR THE TOTAL ESTIMATED COSTS OF CONSTRUCTION IN ACCORDANCE WITH COLUMBUS CITY CODE SECTION 901.01.

THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DEPARTMENT OF PUBLIC SERVICE (614-645-0433), DIVISION OF SEWERS AND DRAINS (614-645-7102), AND THE CITY OF DUBLIN DEPARTMENT OF PUBLIC WORKS (614-761-6512) AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.

DEDMITS

THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS. AN ORIGINAL PERMIT WITH RED SIGNATURES SHALL BE KEPT ONSITE AT ALL TIMES.

WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE — PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE: (614) 645—7497; FAX: (614) 645—1876 EMAIL: COLSPERMITS@COLUMBUS.GOV

UTILITIES

THE IDENTITY AND LOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED IN AND AROUND THE CONSTRUCTION AREA HAVE BEEN SHOWN AND LABELED ON THE PLANS BY USING INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CITY OF COLUMBUS OR THE CONSULTING ENGINEER WILL NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF LOCATION OR DEPTH OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLAN.

SUPPORT AND PROTECTION OF ALL UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COSTS FOR THE REPAIR AND RESTORATION OF EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CITY OF COLUMBUS UTILITIES WILL ONLY LOCATE AND MARK MAIN LINE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERAL AND LINES. COSTS ASSOCIATED WITH THE ABOVE WORK AND RESPONSIBILITIES SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS.

PRIOR TO EXCAVATION, THE CONTRACTOR SHALL GIVE A 48—HOUR NOTICE TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS) BY CALLING (800) 362—2764. A 48—HOUR NOTICE SHALL BE GIVEN TO THE OWNERS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE.

LISTED BELOW ARE UTILITY COMPANIES THAT HAVE FACILITIES LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND SUBSCRIBE TO OUPS:

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
TRAFFIC MANAGEMENT
1820 EAST 17TH AVENUE
COLUMBUS, OH 43219

CITY OF DUBLIN/COLUMBUS

COLUMBUS, OHIO 43215

DIVISION OF WATER

910 DUBLIN ROAD

614-645-7788

PO BOX 182937

888-850-0098

COLUMBUS, OH 43218

CITY OF COLUMBUS
VICE DEPARTMENT OF UTILITIES
910 DUBLIN ROAD
COLUMBUS, OH 43215
614-645-8270

CITY OF DUBLIN
DIVISION OF SEWER
6555 SHIER RINGS ROAD
DUBLIN, OH 43016
614-410-4740

COLUMBIA GAS OF OHIO
920 WEST GOODALE BLVD
700 MORRISON RD
COLUMBUS, OHIO 43212
GAHANNA, OHIO 43230
614-460-2169
614-883-6802

COLUMBUS, OHIO 43212 GAHAN 614-460-2169 614-8

AMERICAN POWER AND LIGHT, LLC

DUBLIN, OH 43016 614-410-4740 AEP OHIO 700 MORRISON RD

AT&T OHIO 111 N. 4TH STREET COLUMBUS, OHIO 45840 614-223-5316

CITY OF DUBLIN

DUBLIN, OH 43016

1266 DUBLIN ROAD

COLUMBUS, OH 43215

614-410-4740

614-481-5262

SPECTRUM

DIVISION OF ENGINEERING

6555 SHIER RINGS ROAD

EMERGENCY PROVISIONS

THE CONTRACTOR SHALL PROVIDE TO THE CITY OF COLUMBUS PROJECT REPRESENTATIVE A LIST OF 24—HOUR EMERGENCY TELEPHONE NUMBERS (IN WRITING) PRIOR TO THE START OF CONSTRUCTION.

SECURING EXCAVATIONS & TRENCHES FOR NON-WORKING HOURS

EXCAVATIONS AND TRENCHES OVER 24 INCHES DEEP SHALL BE SECURELY PLATED OR BACKFILLED DURING NON-WORKING HOURS.

CONSTRUCTION LIMITS

THE CONSTRUCTION LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE CONSTRUCTION

MISCELLANEOUS WORK ITEMS

THE CONTRACTOR SHALL PERFORM ALL ITEMS OF WORK CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT IMPROVEMENT.

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES, AND RELATED ACCESSORIES FOR A COMPLETE PROJECT AS SHOWN AND DESCRIBED IN THE PLANS AND SPECIFICATIONS. THE PRICE FOR ITEMS OF WORK OR MATERIALS SHOWN ON THE PLANS OR PROVIDED FOR IN THE SPECIFICATIONS OR SPECIAL PROVISIONS FOR WHICH NO SEPARATE UNIT PRICE IS GIVEN SHALL BE BID AS PER PLANS AND THE COSTS DISTRIBUTED AMONG THE VARIOUS BID ITEMS. SUBMISSION OF A BID SHALL BE CONSIDERED EVIDENCE THAT THE BIDDER IS SATISFIED WITH THE PLANS AND CONDITIONS AS SHOWN. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS, OR SPECIAL PROVISIONS.

BENCHMARKS AND SURVEY MONUMENTS

DO NOT DISTURB ANY FRANKLIN COUNTY CERTIFIED BENCHMARKS (VERTICAL AND/OR HORIZONTAL) LOCATED WITHIN THE WORKING LIMITS OF THE PROJECT. CONTRACTOR SHALL CONTACT THE FRANKLIN COUNTY SURVEY DEPARTMENT (614) 525-3026 PRIOR TO CONSTRUCTION TO COORDINATE THE PROPER PROCEDURES FOR THE RESETTING, RELOCATION, OR REPLACEMENT OF ANY FRANKLIN COUNTY CERTIFIED BENCHMARK OR SURVEY MONUMENT.

SAFETY

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS. TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY, IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

MATERIAL SAFETY DATA SHEETS

THE CONTRACTOR SHALL SUBMIT, FOR REFERENCE ONLY, THE MANUFACTURERS' MSDS INFORMATION FOR ALL MATERIALS TO BE INCORPORATED INTO THE WORK. RECORDS SHALL BE CURRENT AND KEPT AT THE JOBSITE.

STORAGE OF EQUIPMENT AND MATERIALS

MATERIALS, INCLUDING PIPE, SHALL NOT AT ANY TIME BE STORED WITHIN THE RIGHT-OF-WAY WITHIN ONE-HUNDRED (100) FEET OF ANY INTERSECTING STREET OR DRIVEWAY, WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY. COMPLIANCE WITH THIS REQUIREMENT ALONG WITH ADDITIONAL PROVISIONS OF THE CONTRACT SPECIFICATIONS SHALL NOT IN ANYWAY RELIEVE THE CONTRACTOR OF LEGAL RESPONSIBILITIES OR LIABILITIES FOR THE SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL INFORM THE CITY OF THE PLAN FOR ONSITE STORAGE OF EQUIPMENT AND MATERIALS AT THE PRE-CONSTRUCTION MEETING.

WORKING HOURS

IN GENERAL, WORK HOURS SHALL COMPLY WITH SECTION 108.04 OF THE CMSC.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER OPERATED CONSTRUCTION—TYPE DEVICE SHALL ONLY BE OPERATED WITHIN THE HOURS AS OUTLINED IN THE SUPPLEMENTAL SPECIFICATIONS, UNLESS APPROVED BY THE COUNTY ENGINEER. IN ADDITION, ANY SUCH DEVICE SHALL NOT BE OPERATED AT ANY TIME IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT. THE COUNTY ENGINEER SHALL NOTIFY THE CONTRACTOR OF ANY DEVICE THAT WILL NEED TO BE REMOVED DUE TO ITS EXCESSIVE NOISE.

COORDINATION BETWEEN CONTRACTORS

THE CONTRACTOR OF THIS PLAN SHALL COORDINATE THE CONSTRUCTION AND MAINTENANCE OF TRAFFIC OPERATIONS WITH ANY OTHER CONTRACTORS IN THE VICINITY. PRIOR TO FINALIZATION OF SCHEDULING FOR THIS PROJECT, THE CONTRACTOR WILL CONFIRM THERE ARE NO SCHEDULE CONFLICTS.

<u>TE VISIT</u>

THE CONTRACTOR IS REQUIRED TO VISIT THE PROJECT SITE AND FULLY INFORM HIMSELF CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE PROJECT SITE SHALL NOT RELIEVE HIM FROM ANY RESPONSIBILITY OF THE CONTRACT.

CONTRACT SPECIFICATIONS

ALL CONTRACT SPECIFICATIONS ACCOMPANYING THESE PLANS ARE TO BE CONSIDERED A PART THEREOF.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK SHOWN, LABELED, OR LISTED AS "CONTINGENCY" OR REFERENCED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER", UNLESS AUTHORIZED BY THE ENGINEER OR AN ACCEPTABLE REPRESENTATIVE FOR THE CITY OF COLUMBUS. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THE PROJECT.

MAINTAINING SERVICES

THE CONTRACTORS SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS FOR POSTAL, POLICE, FIRE, AND SOLID WASTE REMOVAL IN THE CONSTRUCTION AREA. COST FOR MAINTAINING SERVICES SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS IN THE CONTRACT.

SIGNS, MAILBOXES, FENCES, ETC.

ALL FENCES, SIGNS, DRAINAGE STRUCTURES, LANDSCAPING, MAILBOXES, OR OTHER PHYSICAL FEATURES REMOVED, DISTURBED OR DAMAGED DURING WORK UNDER THE CONTRACT IMPROVEMENTS SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER, UNLESS OTHERWISE SPECIFIED IN THE APPROVED PROJECT PLANS. PAYMENT FOR THE SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS IMPROVEMENT ITEMS.

CONVENIENCE FACILITIES

THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKMEN AND INSPECTORS FOR THE DURATION OF THE PROJECT. COST SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS

CONTRACT WORK PERFORMED BY THE CITY

IN THE EVENT THAT IT BECOMES NECESSARY FOR THE CITY TO PERFORM WORK OF AN IMMEDIATE NATURE (SUCH AS THE PLACEMENT OF BARRICADES OR REPLACEMENT OF SIGNS OR OTHER WARNING OR PROTECTIVE DEVICES) REQUIRED OF THE CONTRACTOR BY THIS CONTRACT BECAUSE OF FAILURE OR REFUSAL OF THE CONTRACTOR TO PERFORM SUCH WORK, THE CONTRACTOR SHALL REIMBURSE THE CITY AT THE RATE OF 2.5 TIMES THE ACTUAL COST OF LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK. IF THE CONTRACTOR REFUSES OR FAILS WITHIN A REASONABLE TIME TO PERFORM OR CAUSE THE PERFORMANCE OF SUCH WORK, THE CITY SHALL BE REIMBURSED BY THE CONTRACTOR IN THE AMOUNT PROVIDED HEREIN BY WAY OF A DEDUCTION FROM THE CONTRACTOR'S NET PAYMENT UNDER THE CONTRACT. CONTRACTOR HAS 1 HOUR FROM THE TIME OF NOTIFICATION BY THE CITY BEFORE CITY SOURCES ARE UTILIZED.

NON-RUBBER TIRED VEHICLES

NO STEEL—TRACKED VEHICLES SHALL BE MOVED ON PUBLIC STREETS OR ROADS. THE CITY MAY GRANT EXCEPTIONS WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE APPROPRIATE JURISDICTION(S).

CONSTRUCTION DEBRIS & STREET CLEANING

THE CONTRACTOR SHALL KEEP STREETS FREE OF DIRT, SEDIMENT OR MUD ON OR OFF THE PROJECT SITE. THE ENGINEER MAY DIRECT THE CONTRACTOR TO PERFORM STREET CLEANING PERIODICALLY OR ON A REGULAR INTERVAL IF EXCESSIVE AMOUNTS OF DIRT AND MUD ARE LEFT ALONG THE STREET. THIS MAY INCLUDE REMOVAL BY SWEEPING, POWER CLEANING, OR MANUAL METHODS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CMSC ITEM 901, UNLESS OTHERWISE SPECIFIED. STREET CLEANING (ON AN AS—NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

RESTORATION, CLEAN UP & DUST CONTROL

ALL WORK IS TO CONTINUE ON A UNIFORM BASIS AND ON SCHEDULE TO KEEP INCONVENIENCE TO THE PROPERTY OWNERS TO AN ABSOLUTE MINIMUM.

ANY DIRT, SEDIMENT, OR MUD DEPOSITED ON STREETS ON OR OFF THE PROJECT SITE SHALL IMMEDIATELY BE CLEANED BY THE CONTRACTOR AND TO THE SATISFACTION OF THE CITY ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUST CONTROL MEASURES IN ACCORDANCE WITH CURRENT CITY STANDARDS. DUST CONTROL OPERATIONS SHALL BE PERFORMED AS DIRECTED BY THE CITY ENGINEER.

CARE SHALL BE EXERCISED WHEN WORKING IN THE AREA AROUND EXISTING TREES AND SHRUBS. ANY TREES OR SHRUBS NOT MARKED FOR REMOVAL THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY ENGINEER.

SAW CUTTING

THE COST OF SAW CUTTING FOR THE REMOVAL OF PAVEMENT, CURBS, WALKS, ETC. TO PROVIDE SMOOTH STRAIGHT EDGES SHALL BE INCLUDED IN THE CONTRACT. NO SEPARATE PAYMENT SHALL BE MADE FOR SAW CUTTING.

WHEN NEW UTILITY LINES ARE INSTALLED UNDER EXISTING PAVEMENT, THE PAVEMENT SHALL BE SAW CUT PRIOR TO EXCAVATION, UNLESS THE PAVEMENT IS BEING REMOVED FOR ROADWAY CONSTRUCTION. PAVEMENT SAW CUTS SHALL BE TO FULL DEPTH IN NEAT, STRAIGHT LINES. ALL EXISTING PAVEMENT OR HARD SURFACES SHALL BE SAW CUT BEFORE REMOVAL.

IF DURING CONSTRUCTION, THE PAVEMENT OR HARD SURFACE IS DAMAGED BEYOND THE ORIGINAL SAW CUT, THE DAMAGED AREA SHALL BE RE-CUT TO NEAT LINES AS DIRECTED BY THE ENGINEER.

PAVEMENT CUTTING, SAWING AND EXCAVATION OPERATIONS

ALL PUBLIC AGENCIES AND PRIVATE CONTRACTORS PERFORMING PAVEMENT—CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL PROTECT THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON—STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS AND ANY PART OF ITS MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM)

THE REQUIREMENT INCLUDES BUT IS NOT LIMITED TO WET OR DRY SAW—CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC. THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF DETRITUS, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING ANY DISCHARGES FROM THE CONSTRUCTION OPERATIONS. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOV/S) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS AND METHODS SHALL BE PROVIDED BY THE RESPONSIBLE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ALL WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS, AND ENVIRONMENTAL PROTECTIVE MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEM AND WATERS OF THE STATE OF OHIO.

THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDIATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.

TDENICHING

THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS, PLATES OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED MATERIALS SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF TRENCH SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE CITY ENGINEER.

NO SEPARATE PAYMENT WILL BE PROVIDED IF TRENCH WORK IS LIMITED TO A LENGTH THAT WOULD BE COMPLETED IN A WORKDAY IF REQUESTED BY THE CITY ENGINEER.

ANY EXCAVATION PERFORMED BEYOND THE MINIMUM TRENCH WIDTH, AS DEFINED ON DIVISION OF SEWERAGE AND DRAINAGE STANDARD CONSTRUCTION DRAWINGS AA—S149, AA—S151, AND AA—S152 DUE TO SITE CONDITIONS OR THE CONTRACTOR'S METHODS ARE DONE SO SOLELY AT THE CONTRACTOR'S EXPENSE. NO EXTRA PAYMENT WILL BE MADE FOR UNAUTHORIZED EXCAVATION. BLASTING IS NOT PERMITTED.

IF UNSUITABLE SUBGRADE MATERIAL IS ENCOUNTERED, THE HANDLING OF THIS MATERIAL SHALL COMPLY WITH CMSC ITEM 901.06. REPLACEMENT OF UNSUITABLE MATERIAL WITH STONE FOUNDATION PER CMSC ITEM 906 SHALL BE REQUIRED IF DEWATERING OF THE SUBGRADE DOES NOT PRODUCE A SUBGRADE ACCEPTABLE TO THE CITY ENGINEER.

ALL TRENCHES THAT CROSS PAVEMENT OR WHERE THE FRONT FACE OF TRENCHES PARALLELING THE PAVEMENT IS WITHIN 24" OF THE FACE OF CURB OR EDGE OF PAVEMENT WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912. THE MATERIAL SHALL EXTEND LATERALLY 36" BEYOND FACE OF CURB OR EDGE OF PAVEMENT. OTHER AREAS OUTSIDE THE ABOVE REQUIREMENT BUT INSIDE THE RIGHT-OF-WAY SHALL BE COMPACTED AS PER ITEM 911, ITEM 801.09.

UNAUTHORIZED STREET EXCAVATION

IN THE EVENT THE CONTRACTOR EXCAVATES BELOW THE ELEVATIONS ON THE PLANS, THE CONTRACTOR WILL BE REQUIRED TO REPLACE THE EXCE3SS EXCAVATED MATERIAL WITH COMPACTED MATERIAL PER CMSC ITEM 304 AS DIRECTED AND AT NO EXTRA COST TO THE OWNER.

TRENCH BACKFILL

TRENCH BACKFILL SHALL BE PER CMSC ITEM 901.17. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR TRENCHES REQUIRING CMSC ITEM 911, COMPACTED BACKFILL. THE COST FOR BACKFILLING TRENCHES WITH CMSC ITEM 912, COMPACTED GRANULAR MATERIAL SHALL BE PAID FOR UNDER THE APPLICABLE "ITEM 901 — SEWER PIPE, WITH TYPE I OR II BEDDING, INCLUDING ITEM 912 BACKFILL", NO SEPARATE PAYMENT SHALL BE MADE FOR ITEM 912, COMPACTED GRANULAR MATERIAL.

AT ALL POINTS OF CROSSING WATER MAINS OR OTHER SEWERS, THE BACKFILL SHALL BE OF GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPES.

ALL TRENCHES WITHIN THE ROAD RIGHT-OF-WAY SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF THE TRENCHES FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL INSPECTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CMSC ITEM 901.

<u>PONDING</u>

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ALL AREAS THAT HOLD WATER AFTER CONSTRUCTION OF THE CURB RAMPS. THESE AREAS INCLUDE AND AND ALL AREAS WITHIN THE PEDESTRIAN RIGHT—OF—WAY APPROACHING AND LEAVING THE NEWLY CONSTRUCTED CURB RAMP. AREAS OF PONDING CANNOT BE IDENTIFIED UNTIL AFTER ADEQUATE RAINFALL HAS OCCURRED AND REPAIR TO THOSE AREAS WILL NOT OCCUR UNTIL AFTER SUCH TIME.

RIGHTS-OF-WAY

IN ADDITION TO DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHTS—OF—WAY INCLUDING EASEMENTS, COURT ENTRIES, RIGHTS—OF—ENTRY, OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF APPLICABLE GOVERNING AGENCY. THE COST OF OPERATIONS NECESSARY TO FULFILL SUCH REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS IMPROVEMENT ITEMS UNLESS SPECIFIC PROVISION IS MADE IN THE CONTRACT SPECIFICATIONS.

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

DESIGNATED CURB/DRIVEWAY LOCATIONS SHALL BE APPROVED BY THE ENGINEER FOR ENTERING AND EXITING THE WORK ZONE PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS. AT ALL TIMES, THE EXISTING CURB TO REMAIN SHALL BE PRESERVED BY THE CONTRACTOR. IN THE EVENT THAT THE EXISTING CURB IS DAMAGED, IT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE; NO SEPARATE PAYMENT SHALL BE MADE.

STATIONING

ALL STATIONING REFERS TO CONSTRUCTION CENTERLINE, UNLESS OTHERWISE NOTED.

UTILITY EXCAVATIONS, INSTALLATION, AND DEMOLITION

PAYMENT FOR ALL UTILITY EXCAVATION AND/OR INSTALLATION SHALL BE INCLUDED WITHIN THE PRICE BID FOR THE CONDUIT, WATERLINE, ETC. ADDITIONALLY, NO, SEPARATE PAYMENT WILL BE MADE FOR EXCAVATION NECESSARY TO PERMANENTLY REMOVE ANY ITEMS DESIGNATED BY THESE PLANS. PAYMENT SHALL BE INCLUDED IN THE REMOVAL ITEM(S); NO SEPARATE PAYMENT WILL BE MADE.

UTILITY POLE PROTECTION

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS AND PROTECT EXISTING UTILITY POLES TO REMAIN. UTILITY COMPANY WILL PROVIDE EQUIPMENT TO SUPPORT POLES AS REQUIRED DURING CONSTRUCTION, ALL COST INCURRED FOR THE SUPPORT OF UTILITY POLES SHALL BE INCLUDED WITHIN THE PRICE OF THE PROJECT. NO REIMBURSEMENT OR SEPARATE PAYMENT SHALL BE MADE. ALL COSTS SHALL BE THE CONTRACTORS EXPENSE AND INCLUDED IN THE OVERALL COST BID FOR THE PROJECT IMPROVEMENTS.

COMPACTION TESTING AT UTILITY CROSSINGS

PRIOR TO CONSTRUCTION OF THE PUBLIC ROADWAY, SOIL TESTS SHALL BE MADE ON ALL OPEN CUT UTILITY TRENCHES WHICH CROSS THE PROPOSED PAVEMENTS OR WHICH LIE SUCH THAT THE PROPOSED PAVEMENTS ARE LOCATED WITHIN ANY PART OF THE INFLUENCE LINE OF SAID TRENCH. WHERE SAID RESULTS INDICATED THAT THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF CMSC 912, ALL BACKFILL MATERIAL SHALL BE REMOVED, REPLACED, AND RE—TESTED UNTIL COMPLIANCE IS ACHIEVED.

EXPOSE EXISTING UTILITIES

WHERE POTENTIAL GRADE AND ALIGNMENT CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, OR AS SPECIFICALLY CALLED OUT ON THE PLANS, THE CONTRACTOR SHALL EXPOSE UTILITIES OR STRUCTURES SUFFICIENTLY IN ADVANCE OF LAYING PIPE FOR THE DESIGN ENGINEER TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. ANY DISCREPANCY WITH THE PLANS SHALL BE COORDINATED WITH THE CITY TO ENSURE THAT THERE ARE NO CONSTRUCTION OR CONFLICT ISSUES ASSOCIATED WITH SAID DISCREPANCY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS IMPROVEMENT ITEMS IF A SPECIFIC BID ITEM IS NOT PROVIDED IN THE ESTIMATE OF QUANTITIES.

CROSSING AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING SEWER, OR EXISTING APPURTENANCE TO BE CONNECTED TO, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, THE DESIGN ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED SEWER WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE DESIGN ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

GRADES AND ELEVATIONS SHOWN ON THE PLANS SHALL NOT BE REVISED UNDER ANY CIRCUMSTANCES WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE CITY. INVERT ELEVATIONS SHALL NOT DEVIATE FROM THE PLAN BY MORE THAN 0.05 FOOT. FAILURE TO MEET THE ABOVE REQUIREMENT IS CAUSE FOR REJECTION OF THE AFFECTION SECTION OF SEWER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT CMSC ITEMS 800 AND 901.

WHERE THE PLANS PROVIDE FOR NEW PIPE TO BE CONNECTED TO AN EXISTING SEWER/STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AN OPENING AT THE PROPER SIZE, ALIGNMENT AND ELEVATION FOR THE CONNECTION. THE OPENING SHALL BE MADE LARGE ENOUGH TO RECEIVE AND JOIN THE PROPOSED PIPE PER CMSC ITEM 604.

TREE PRESERVATION AND PROTECTION:

ALL PUBLIC TREES WHETHER SHOWN OR NOT SHOWN ON THE PLANS ARE TO BE PRESERVED UNLESS APPROVAL TREMOVE OR PRUNE IS GIVEN IN WRITING BY COLUMBUS RECREATION & PARKS/CITY FORESTER OR THEIR REMOVAL HAS BEEN DESIGNATED ON THE PLAN. TREES REMOVED BY EITHER OF THE TWO PRECEDING AUTHORITIES SHALL BE PAID FOR UNDER CMSC ITEM 201. THE CONTRACTOR SHALL USE SPECIAL PRECAUTIONS TO AVOID DAMAGE TO ALL OTHER TREES. ALL TREES REMOVED SHALL INCLUDE STUMP REMOVAL TO EIGHTEEN (18) INCHES BELOW GRADE.

ALL CLEARING AND GRUBBING DONE ON COLUMBUS RECREATION & PARKS PROPERTY/RIGHT OF WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

CONTRACTOR SHALL REFER TO THE CITY OF COLUMBUS EXECUTIVE ORDER 2015-01 FOR TREE PROTECTION AND REPLACEMENT.

SUBMIT A TREE PROTECTION PLAN TO THE CITY DIVISION OF FORESTRY WITH A DRAWING OF ANY WORK LOCATED WITHIN THE DRIP LINE OF A PUBLIC TREE.

PUBLIC TREES MUST BE PROTECTED AGAINST INJURY OR DAMAGE TO BRANCHES, TRUNKS, OR ROOTS FROM CONSTRUCTION AND EXCAVATION, AS DESCRIBED IN THE "BEST MANAGEMENT PRACTICES — MANAGING TREES DURING CONSTRUCTION" A COMPANION PUBLICATION TO ANSI A300 PART 5.

FAILURE TO CONTACT THE CITY FORESTRY REPRESENTATIVE IN ADVANCE OF CONSTRUCTION WILL RESULT IN THE APPLICANT REIMBURSING CITY FORESTRY FOR THE COST OF ANY AND ALL DAMAGES AS DETERMINED BY THE CURRENT CITY OF COLUMBUS EXECUTIVE ORDER 2015-01 FOR TREE PROTECTION AND REPLACEMENT.

INDIANA BAT HABITAT PROTECTION:

FOR ANY TREE DESIGNATED FOR REMOVAL THAT MAY BE POTENTIAL BAT HABITAT AREAS, REMOVAL SHALL ONLY OCCUR FROM OCTOBER 15TH TO MARCH 31ST. IF THE CONTRACTOR PREFERS TO REMOVE THE TREES OUTSIDE OF THIS TIMEFRAME, A SURVEY MUST BE CONDUCTED ACCORDING TO THE UNITED STATES FISH AND WILDLIFE SERVICES AND BY A BIOLOGIST WITH ALL REQUIRED FEDERAL AND/OR STATE COLLECTION PERMITS TO DETERMINE THE PRESENCE OF ANY INDIANA BATS. THE DATA COLLECTED DURING THE SURVEY MUST BE PROVIDED TO THE CITY ACCORDING TO THE CONDITIONS OF THE PERMIT AND ANY REGULATORY AUTHORITY REQUIREMENTS. IF NO BATS ARE PRESENT THE TREE SHALL BE REMOVED WITHIN 24 HOURS OF THE SURVEY BEING CONDUCTED. IF BATS ARE FOUND TO BE PRESENT, THEN TREE SHALL REMAIN AND A PROTECTION AND ENHANCEMENT PLAN WILL BE

SEEDING & MULCHING

THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS IN CONFORMANCE WITH CMSC ITEM 659. ANY DISTURBED AREAS OUTSIDE THE PROJECT LIMITS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL WATER SEEDED AREAS AT A RATE OF 120 GALLONS PER 1,000 SQUARE FEET AS SOON AS THE SEED IS COVERED. THE CONTRACTOR SHALL WATER ALL SEEDED AREAS AT A RATE OF 120 GALLONS PER 1,000 SQUARE FEET EVERY OTHER DAY FOR FOUR WEEKS. WATERING SHALL BE PERFORMED IN THE MORNING BETWEEN 6:00AM AND 10:00AM AND SHALL BE APPLIED BY MEANS OF A HYDRO—SEEDER OR A WATER TANK UNDER PRESSURE WITH A NOZZLE THAT WILL PRODUCE A SPRAY THAT WILL NOT DISLODGE THE MULCHING MATERIAL. THE COST FOR WATER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 659 SEEDING AND MULCHING.

MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER ANY AREA IS SEEDED AND SHALL CONTINUE FOR A MINIMUM FOUR—WEEK ACTIVE GROWING PERIOD FOLLOWING THE COMPLETION OF ALL SEEDING WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT. IN THE EVENT THAT SEEDING OPERATIONS ARE COMPLETED TOO LATE IN THE FALL FOR ADEQUATE GERMINATION AND GROWTH OF GRASS, THEN MAINTENANCE SHALL CONTINUE INTO THE FOLLOWING SPRING.

MAINTENANCE SHALL INCLUDE RESEEDING, MOWING TO MAINTAIN A HEIGHT OF 3 INCHES, WATERING, WEEDING, FERTILIZING AND RESETTING AND STRAIGHTENING OF PROTECTIVE BARRIERS. MAINTENANCE SHALL ALSO INCLUDE CHEMICAL TREATMENTS AS REQUIRED FOR FUNGUS AND/OR PEST CONTROL.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE SEEDED AREAS. AFTER THE GRASS IN SEEDED AREAS HAS APPEARED, ALL AREAS AND PARTS OF AREAS THAT, IN THE OPINION OF THE CITY, FAIL TO SHOW A UNIFORM STAND OF GRASS FOR ANY REASON WHATSOEVER SHALL BE RESEEDED AND SUCH AREAS AND PARTS OF AREAS SHALL BE RESEEDED REPEATEDLY UNTIL ALL AREAS ARE COVERED WITH A SATISFACTORY GROWTH OF GRASS. RESEEDING TOGETHER WITH NECESSARY GRADING, FERTILIZING, WATERING, AND TRIMMING SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.

ALL EROSION AND SEDIMENT PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

ALL DISTURBED AREAS, WHICH WILL REMAIN UNWORKED FOR 45 DAYS OR MORE, SHALL BE SEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT CONTROL DEVICES AT THE CONCLUSION OF THE CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER IS ESTABLISHED. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE (CONSISTENT WITH SEDIMENT/EROSION CONTROL PRACTICES) OF THE WORK AREA AT ALL TIMES.

(INCLUDE FOLLOWING IF PLAN INCLUDES SWP3) COMPLETE INFORMATION FOR EROSION AND SEDIMENT CONTROL MEASURES ARE DETAILED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWP3) INCLUDED IN THE PLAN.

MISCELLANEOUS NOTES

THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR THE MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION NOT SPECIFIED HEREIN, NOR FOR THE SAFETY ON THE JOB SITE OR THE CONTRACTORS' FAILURE TO COMPLETE THE WORK AS SPECIFIED ON THIS PLAN.

 $\frac{2}{2}$

EROSION AND SEDIMENT CONTROL

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 6-7. 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.

ALL EROSION SEDIMENTATION CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF COLUMBUS, PROJECT ENGINEER AND /OR THE OHIO EPA.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE CITY OF COLUMBUS TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE (1) OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING, AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATIONS TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER MANAGEMENT OFFICE AT 614-645-6700 OR BY FAX AT 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 NPDES PERMIT HOLDER SHALL PROVIDE QUALIFIED PERSONNEL TO CONDUCT SITE INSPECTIONS ENSURING PROPER FUNCTIONALITY OF THE EROSION AND SEDIMENTATION CONTROLS. ALL EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSPECTED ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A ½"STORM EVENT OR GREATER THAT OCCURS OVER A 24 HOUR PERIOD. RECORDS OF THE SITE INSPECTIONS SHALL BE KEPT BY THE CONTRACTOR AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUIRED.

THIS PLAN MUST BE POSTED ON SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON SITE AT ALL TIMES.

DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. THE ENGINEER SHALL KEEP RECORDS OF THE INSPECTION IN WRITING.

SOIL STOCKPILES

ALL SOIL STOCKPILES, INCLUDING TRENCH EXCAVATION STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVICES SUCH AS STRAW BALE DIKES OR SILT FENCES. THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT. EXCAVATED MATERIALS SHALL NOT BE STORED ON EXISTING PUBLIC ROADWAY PAVEMENTS. THIS INCLUDES EXCESS OR UNUSABLE EXCAVATED SOIL.

STORM SEWER INLET PROTECTION

ALL STORM SEWER INLETS SHALL BE PROTECTED FROM EXCESSIVE AMOUNTS OF SEDIMENTS USING ADEQUATE FILTERING DEVICES AS APPROVED BY THE DIVISION OF SEWERAGE AND DRAINAGE. THESE DEVICES SHALL BE MAINTAINED UNTIL THE DENUDED AREA HAS BEEN STABILIZED, OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CMSC ITEM 207. STRAW OR HAY BALES ARE NOT APPROVED FOR INLET PROTECTION.

DISPOSAL OF EXCESS EXCAVATION

THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION. IF MATERIALS ARE DISPOSED ON PROPERTY WITHIN CITY LIMITS, THE CONTRACTOR SHALL PROVIDE A COPY OF THE SIGNED AGREEMENT AND A COPY OF THE GRADE AND FILL PERMIT OBTAINED FROM THE DEVELOPMENT DEPARTMENT.

STORM SEWERS AND DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE OWNER, THE ENGINEER AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. THE ENGINEER SHALL KEEP RECORDS OF THE INSPECTION IN WRITING.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED OR RECONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

ALL EXISTING MANHOLES, CATCH BASINS, DRAINS, SEWERS, AND APPURTENANCES INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLE COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR SHALL CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS TO THE SATISFACTION OF THE ENGINEER. THE ABOVE IS NOT APPLICABLE FOR STRUCTURES TO BE ABANDONED. THE CONTRACTOR SHALL REMOVE DEBRIS, SILT, ETC. FROM THE EXISTING MANHOLES AND CATCH BASINS THAT HAVE BEEN AFFECTED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL MAINTAIN SERVICE IN EXISTING SEWERS DURING CONSTRUCTION.

CLEAN WATER CONNECTIONS TO SANITARY SEWERS: ROOF DRAINS, FOUNDATION DRAINS, DRAIN TILES, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

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

MANHOLE STEPS SHALL BE REINFORCED POLYPROPYLENE PLASTIC PER DOSD STD. CONSTRUCTION DRAWING AA-S119. PAYMENT FOR MANHOLE STEPS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CMSC ITEM 604, MANHOLE.

STORM STRUCTURE ADJUSTMENT: THE CONTRACTOR SHALL FIELD VERIFY THE TOP OF CASTING ELEVATION OF ALL NEW STORMWATER STRUCTURES. IF PRECAST STRUCTURES ARE UTILIZED, THE TOP 6 INCHES MINIMUM SHALL BE FIELD PLACED EITHER WITH GRADE RINGS OR BRICK AND MORTAR TO ALLOW FOR FIELD ADJUSTMENT. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE CMSC ITEM 604.

IF THE ENGINEER DETERMINES THAT AN INLET IS TOO LOW/HIGH AFTER IT HAS BEEN PLACED AND ROUGH GRADING PERFORMED, THE CONTRACTOR SHALL ADJUST THE INLET AS DIRECTED BY THE ENGINEER AND REGRADE THE AREA ACCORDINGLY. FOR ADJUSTMENTS OF +/- 6 INCHES, THE COST TO ADJUST THE INLET SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE CMSC ITEM 604. FOR ADJUSTMENTS GREATER THAN +/- 6 INCHES, THE COST TO ADJUST THE INLET SHALL BE PAID FOR IN THE UNIT PRICE BID FOR CMSC ITEM SPECIAL —INLET ADJUSTED, AS DIRECTED BY ENGINEER,

AND SHALL CONSTITUTE FULL PAYMENT FOR ADJUSTING THE INLET INCLUDING GRADE RINGS, CONCRETE SAWING, MORTAR, EXCAVATION, BACKFILL, REGRADING, ETC. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE QUANTITY SUMMARY FOR THE WORK NOTED ABOVE:

MANHOLE FRAMES AND COVERS: THE TOP OF NEW OR MODIFIED MANHOLE CASTINGS SHALL BE SET FLUSH WITH THE EXISTING SURFACE. THE CONTRACTOR SHALL FIELD VERIFYING THE TOP OF CASTING ELEVATION PRIOR TO ORDERING MATERIALS.

THE CONTRACTOR SHALL ENSURE THERE IS A SURVEYORS'LEVEL AND ROD ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS WHENEVER SEWER LINE STRICTURES OR PIPE ARE BEING INSTALLED. THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE FOR THE USE, AND SHALL 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:

PROPER PLACEMENT OF EACH STRUCTURE
 PROPER INSTALLATION OF PIPE RUNS

3. GRADE, AFTER AN OVERNIGHT OR LONGER SHUTDOWN
4. GRADE, AT ANY OTHER TIME THE INSPECTOR HAS REASON TO QUESTION THE GRADE OF INSTALLATION

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

CONDUIT END TREATMENT

IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, HEADWALLS, RIPRAP, ROCK CHANNEL PROTECTION, TURF REINFORCEMENT MATTING, SODDING, ETC.

MAINTAIN DRAINAG

THE FLOW IN ALL SEWERS, DRAINS AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT ITS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT ITS OWN COST AND EXPENSE, UNLESS SPECIFIC PROVISION IS MADE WITHIN THE CONTRACT DOCUMENTS FOR THE MEASURE OF AND PAYMENT FOR SUCH COST SPECIFIC ITEMS, TO A CONDITION SATISFACTORY TO THE CITY.

REPLACEMENT OF DRAIN TILES AND STORM SEWERS

ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED, OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. REPLACED DRAIN TILE SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. IF POSSIBLE, THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO A STORM SEWER STRUCTURE, CURB UNDERDRAIN, OR OUTLET INTO THE ROADWAY DITCH AS APPLICABLE. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

DEFLECTION TESTING

ALL FLEXIBLE SEWERS ARE SUBJECT TO MANDREL TESTING AND VIDEO INSPECTION AS DIRECTED BY THE CITY ENGINEER. TESTING MUST BE PERFORMED NO SOONER THAN 30 DAYS AFTER THE PIPE TRENCH HAS BEEN BACKFILLED AND ALL ROADWAY AND SITE FILLS OVER THE SEWERS CONSTRUCTED. THE TESTING MUST BE COMPLETED IN CONFORMANCE WITH THE REQUIREMENTS OF CMSC ITEM 901.21. MAXIMUM DEFLECTION SHALL NOT EXCEED FIVE PERCENT (5%) OF THE BASE INSIDE DIAMETER. COST OF THE TESTING SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

FOR THE DIVISION OF POWER

THE DIVISION OF POWER (DOP) MAY HAVE OVERHEAD AND UNDERGROUND PRIMARY, SECONDARY, AND STREET LIGHTING AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS AT 811 OR 1-800- 362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA.

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'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 DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE—INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION

1000.18 OF THE CMSC MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING <u>STREET LIGHT LOCKOUT/TAGOUT (LOTO)</u> PROCEDURE, MIS-1, COPIES OF WHICH ARE AVAILABLE FROM DOP.

IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT (614) 645-7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

TEMPORARY TRAFFIC CONTROL

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 STREETS AND HIGHWAYS (CURRENT EDITION). COPIES ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, OFFICE OF CONTRACTS, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43223. NOTE: ALL DEVICES SHALL COMPLY, FOR CONDITION AND LOCATION, WITH THE CURRENT EDITION OF THE NCHRP 350 AND MASH CRASH TESTING CLUDELINES.

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY THE DEPARTMENT OF PUBLIC SERVICE INSPECTOR. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY PAVEMENT MARKINGS AND THE REMOVAL OF CONFLICTING TRAFFIC CONTROLS, THEIR PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED. TEMPORARY PAVEMENT MARKINGS TO INCLUDE, BUT NOT LIMITED TO, CHANNELIZING LINES, EDGE LINES, AND CENTERLINES SHALL BE INSTALLED AND MAINTAINED ON ALL CONSTRUCTION OPERATIONS LASTING A MINIMUM OF 14 CALENDAR DAYS OR AS DIRECTED BY THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR THE PROJECT ENGINEER.

THE CONTRACTOR SHALL GIVE ADVANCE NOTIFICATION (WRITTEN AND VERBALLY) TO THE TEMPORARY TRAFFIC CONTROL COORDINATOR AT 614-645-0355 OR 614-645-5845, WRITTEN NOTIFICATION TO PAVING THE WAY AT PAVINGTHEWAY@MORPC.ORG OR VERBAL TO (614)233-4200, PROJECT ENGINEER, AND THE SENIOR SERVICE PLANNER OF COTA AT 614-308-4373 OR FAX 614-275-5933, INFORMING THEM OF ALL UPCOMING MAINTENANCE OF TRAFFIC CHANGES ON A WEEKLY BASIS. 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
DETOURS/ROAD CLOSURES

LANE CLOSURES LASTING 2 WEEKS OR MORE LANE CLOSURES OF LESS THAN 2 WEEKS LANE CLOSURES OF 2 DAYS OR LESS ADVANCE NOTIFICATION NEEDED

30-DAY NOTIFICATION PRIOR TO CLOSURE.
2-WEEKS
3-DAYS

THE COTA SENIOR SERVICE PLANNER SHALL BE CONTACTED 30 DAYS PRIOR TO ANY PLANNED CLOSURE ON ASSIGNED COTA ROUTES. ANY OTHER UNFORESEEN IMPACTS TO TRAFFIC SHALL BE IMMEDIATELY REPORTED AS THEY OCCUR.

1-DAY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SAFE MOVEMENT OF PEDESTRIANS THROUGH, AROUND, OR DETOURED AWAY FROM THE CONSTRUCTION SITE. TRAFFIC CONTROL FOR PEDESTRIAN MOVEMENT SHALL BE AS PER CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS, AND FIGURES 6H-28 (TA-28) AND 6H-29 (TA-29) OF PART VI OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. WHEN NOT SHOWN ON A SIGNED PLAN, ALL SIDEWALK DIVERSIONS AND TEMPORARY MID-BLOCK CROSSINGS SHALL BE PRE-APPROVED BY THE PROJECT ENGINEER OR THE TEMPORARY TRAFFIC CONTROL COORDINATOR. ACCESS FOR PEDESTRIAN AND VEHICULAR TRAFFIC TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

MAINTAINING TRAFFIC DURING HOLIDAYS AND SPECIAL EVENTS

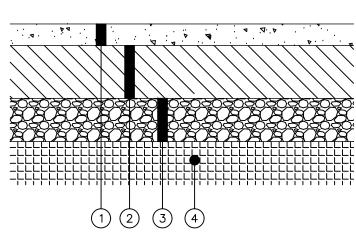
NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING DESIGNATED HOLIDAYS OR SPECIAL EVENTS INCLUDING THE OHIO STATE FOOTBALL HOME GAMES. THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. CONTACT THE CITY OF COLUMBUS TEMPORARY TRAFFIC CONTROL COORDINATOR, 614-645-5845 OR CELL, 614-332-7472 FOR EVENT DATES, LOCATIONS, AND SCHEDULE. HOLIDAYS WILL CONSIST OF CHRISTMAS, NEW YEARS, FOURTH OF JULY-RED, WHITE AND BOOM FIREWORKS NIGHT (6:00AM-12MIDNIGHT), MEMORIAL DAY, LABOR DAY, AND THANKSGIVING. RED, WHITE AND BOOM, FIREWORKS CELEBRATION AND A MINIMUM OF ONE DAY PRIOR TO FIREWORKS NIGHT SHALL REQUIRE ALL TEMPORARY TRAFFIC CONTROL DEVICES TO BE REMOVED FROM THE PROJECT AREA AND PLACE EITHER IN A PRE-DETERMINED LOCATION APPROVED BY THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR COMPLETELY REMOVED FROM THE SITE.

THE CONTRACTOR SHALL CONTACT THE CITY OF COLUMBUS TEMPORARY TRAFFIC CONTROL COORDINATOR FOR ANY ADDITIONAL MOT REQUIREMENTS FOR SPECIAL EVENTS, INCLUDING OSU FOOTBALL HOME GAMES.

THE CONTRACTOR SHALL MAINTAIN ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS THROUGHOUT THIS PROJECT. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED OR COVERED, AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, OR IMPROPERLY PLACED SIGNS.

ANY WORK DONE BY THE DEPARTMENT OF PUBLIC SERVICE, 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.

THE ROADWAY SHALL NOT BE OPENED TO NON-CONSTRUCTION TRAFFIC UNTIL THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS APPROVED BY THE ENGINEER, ARE INSTALLED. THE CRITICAL PERMANENT TRAFFIC CONTROLS ARE STOP, YIELD, ONE WAY, DO NOT ENTER, RESTRICTED TURN SIGNS AND ALL STREET NAME SIGNS. OTHER CRITICAL SIGNS MAY BE NOTED ON THE PLANS AS WELL. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.



PAVEMENT LEGEND

- 1) ITEM 441, 1.5" ASPHALT CONCRETE, SURFACE COURSE, (TYPE 1) PG 64-22
- 2) ITEM 441, 2" ASPHALT CONCRETE, INTERMEDIATE COURSE, (TYPE 2)
- (3) ITEM 301, 4.5" ASPHALT CONCRETE BASE
- (4) ITEM 304, 4" AGGREGATE BASE

DETAIL 01 TYPICAL PAVEMENT SECTION

			TE OF QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION			
			DEMOLITION			
632	10	LF	UNDERGROUND CONDUIT REMOVED			
202	113	SY	CONCRETE DRIVE REMOVED			
202	76	LF	CURB AND GUTTER REMOVED			
202	32	SY	ASPHALT PAVEMENT REMOVED			
202	105	SY	ASPHALT DRIVE REMOVED			
			EROSION AND SEDIMENT CONTROL			
207	290	LF	PERIMETER SILT FENCE			
207	4	EA	A TREE PROTECTION			
207	3	EA	INLET PROTECTION			
659	512	SY	SEEDING AND MULCHING, CLASS 1			
			ROADWAY PAVEMENT			
204	179	SY	SUBGRADE COMPACTION			
304	20	CY	4" AGGREGATE BASE			
441	10	CY	2" ASPHALT CONCRETE, INTERMEDIATE COURSE, (TYPE 2)			
301	23	CY	4.5" ASPHALT CONCRETE BASE			
441	8	CY	1.5" ASPHALT CONCRETE, SURFACE COURSE, (TYPE 1) PG64-22			
			CONCRETE WALK			
204	240	SY	SUBGRADE COMPACTION			
608	2160	SF	4" CONCRETE WALK			
608	215	SF	8" CONCRETE WALK			
608	5	EA	CURB RAMP			
608	1	SF	DETECTABLE WARNING, TYPE "A"			
609	137	LF	COMBINATION CURB AND GUTTER, TYPE STANDARD			
			GENERAL ROADWAY			
614	1	SUM	MAINTENANCE OF TRAFFIC			
624	1	SUM	MOBILIZATION			
			PAVEMENT MARKING & SIGNING			
644	127	LF	CROSSWALK LINE			

4/10

SAMMLE PLEVE

SOFT OF COLUMBS JURISHICTORY

BANKER DRIVE

SOFT OF COLUMBS JURISHICTORY

BANKER DRIVE

SOFT OF COLUMBS JURISHICTORY

NOTE: MAXIMUM DRUM SPACING:

10' C/C RADII 35' C/C TAPERS 40' C/C TANGENTS

ITEM 614 - MAINTAINING TRAFFIC

ALL COSTS THAT CONSIST OF MAINTAINING AND PROTECTING VEHICULAR AND PEDESTRIAN TRAFFIC ACCORDING TO THE LATEST EDITION OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD), AND PER THE REQUIREMENTS DESIGNATED IN THE PLAN INCLUDING ALL LAW ENFORCEMENT OFFICER (LEO) AND FLAGGER HOURS SHALL BE INCLUDED IN THE LUMP SUM ITEM 614.

IN ADDITION TO THE REQUIREMENTS HEREIN, AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, A UNIFORMED LAW ENFORCEMENT OFFICER (LEO) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC UNDER THE FOLLOWING CONDITIONS:

- WORK WITHIN A SIGNALIZED INTERSECTION, DEFINED AS THE AREA BOUNDED BY THE REAR X-WALK LINES
- WHEN FLAGGING WITHIN THE INTERSECTION OF TWO ARTERIAL ROADWAYS
- WHEN SPECIFIED IN THE MAINTENANCE OF TRAFFIC PLAN OR AS WHEN DIRECTED BY THE PROJECT ENGINEER
 WHEN SHIFTING TRAFFIC LEFT OF CENTER, THROUGH A SIGNALIZED INTERSECTION, WITHOUT SHIFTING SIGNAL HEADS

A FLAGGER SHALL BE UTILIZED TO ASSIST IN CONTROLLING TRAFFIC WHILE EQUIPMENT IS ENTERING OR EXITING AN INTERSECTION OR WORK ZONE. THE CONTRACTOR MAY UTILIZE HIS OWN FLAGGER OR LEO UNDER PAY ITEM 614 MAINTAINING TRAFFIC, LUMP SUM.

FLAGGERS AND LEO'S SHALL BE EQUIPPED ACCORDING TO THE STANDARDS FOR FLAGGING TRAFFIC CONTAINED IN THE OMUTCD. FLAGGING OPERATIONS PERFORMED BY LEO'S OR DESIGNATED FLAGGERS SHALL ONLY BE PERMITTED AS LONG AS ALL TRAFFIC CONTROL IS IN PLACE ACCORDING TO FIGURE 6H-10 (TA-10) IN THE OHIO MANUAL. PATROL CARS SHALL NOT BE USED IN FLAGGING OPERATIONS.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S WITH OR WITHOUT PATROL CARS FOR TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THE PLANS, THEY MAY DO SO AT THEIR OWN EXPENSE. THE CONTRACTOR SHALL MAKE ARRANGEMENT THROUGH THE COLUMBUS POLICE DIVISION AT (614) 645-4795.

LEO'S SHALL BE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH EMPLOYED BY THE CONTRACTOR, THE CITY REPRESENTATIVE SHALL HAVE CONTROL OVER THEIR PLACEMENT. LEO'S SHALL NOT HAVE THE AUTHORITY TO CHANGE, EDIT OR MODIFY ANY MAINTENANCE OF TRAFFIC SCHEME WITHOUT THE PERMISSION OF THE TEMPORARY TRAFFIC CONTROL COORDINATOR OR PROJECT ENGINEER UNLESS AN EMERGENCY DEVELOPS.

IF A SAFETY HAZARD DEVELOPS, A LEO MAY BE ASSIGNED BY THE COLUMBUS PUBLIC SAFETY AND/OR THE PUBLIC SERVICE DIRECTOR AT THE CONTRACTOR'S EXPENSE.

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO CLOSURE OF A ROADWAY. THE MESSAGE SHALL ADVISE THE MOTORIST OF THE DATES, TIMES, AND DURATION OF THE CLOSURE. THE PCMS SHALL REMAIN IN PLACE FOR 7 DAYS AFTER THE START OF THE CLOSURE.

WHEN NOT INCLUDED IN A SIGNED PLAN, A TTC PLAN (TTCP) INCLUDING PEDESTRIAN CONTROL SHALL BE SUBMITTED TO THE TTC COORDINATOR AT 614-645-0355 OR 614-645-5845 AT THE PRE-CONSTRUCTION MEETING OR A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK FOR APPROVAL. COPIES OF THE APPROVED TTCP SHALL BE GIVEN TO THE PROJECT ENGINEER AND KEPT ON SITE ALONG WITH THE STREET CLOSURE/OCCUPANCY PERMIT

TYPE C STEADY—BURN OR TYPE D 360—DEGREE STEADY—BURN WARNING 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 614—645—0355 OR 614—645—5845 PER O.D.O.T. STANDARDS.

THE CONTRACTOR SHALL CONTACT OHIO UTILITY PROTECTION SERVICE (OUPS) TO LOCATE AND MARK ALL UNDERGROUND TRAFFIC CONTROL CABLES PRIOR TO THE BEGINNING OF ANY WORK WITHIN 450 FEET OF ANY SIGNALIZED INTERSECTION(S) OR WITHIN ANY POSTED AREA WHERE THE DEPARTMENT HAS UNDERGROUND CABLE. THE SIGNAL OPERATION ENGINEER (614-645-6418) SHALL BE NOTIFIED SIX (6) WEEKS IN ADVANCE FOR SIGNAL REVISIONS OR POLE RELOCATIONS.

NO EXCAVATION SHALL BE MADE WITHIN FIVE (5) FEET OF ANY FOUNDATION THAT SUPPORTS SIGNAL POLES, 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 SIGNAL OPERATION PERSONNEL AT 614-645-0423(CELL 614-419-4501) AT LEAST FORTY-EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE BEGINNING OF SUCH EXCAVATION SO THAT THE CITY CAN APPROVE THE STABILIZATION SETUP BY THE CONTRACTOR. IF UNABLE TO MAKE CONTACT THROUGH ABOVE NUMBERS, CALL 614-645-7393. STABILIZATION WILL BE DONE BY THE CONTRACTOR AT THE OWNERS'/CONTRACTING AGENCY'S EXPENSE.

WHEN ANY TRAFFIC CONTROL DEVICE, CONDUIT, OR CABLE IS DAMAGED, THE CONTRACTOR SHALL NOTIFY SIGNAL OPERATION PERSONNEL AT 614-645-0423 (CELL 614-419-4501) BETWEEN 7:00 AM AND 4:00 PM, MONDAY THROUGH FRIDAY. IF UNABLE TO MAKE CONTACT THROUGH THE OTHER NUMBERS, CALL 614-645-7393.

THE ROADWAY OR ANY SECTION OF ROADWAY SHALL NOT BE OPENED TO NON-CONSTRUCTION TRAFFIC UNTIL ALL TEMPORARY, NON-REFLECTIVE, BLACKOUT TAPE HAS BEEN COMPLETELY REMOVED FROM NON-CONFLICTING PERMANENT PAVEMENT MARKINGS FOR THAT AREA OF THE ROADWAY, OR UNLESS OTHERWISE DIRECTED IN WRITING BY THE ENGINEER. THIS IS SUPPLEMENTAL TO CITY OF COLUMBUS, CMS-614.11- G, AND SHALL BE PAID FOR THROUGH THE 614-LUMP SUM.

WHENEVER YELLOW CENTERLINES OR TURN—LANE LINES ARE PAVED OVER, REMOVED, OR OTHERWISE UNSERVICEABLE, THE CONTRACTOR SHALL INSTALL CLASS II TEMPORARY STRIPING (MINIMUM 4' LONG SEGMENTS). TEMPORARY PAINT SHALL BE USED ON ALL MILLED SURFACES. TEMPORARY TAPE SHALL BE USED ON ALL FINAL COURSES OF ASPHALT. PAINT OR TAPE MAY BE USED ON INTERMEDIATE COURSES OF ASPHALT. IF APPROVED BY THE ENGINEER, DRUMS WITH STEADY BURNING TYPE C OR TYPE D 360 DEGREE WARNING LIGHTS AND "KEEP RIGHT" SIGNS MAY BE SUBSTITUTED FOR CENTERLINE MARKINGS.

CLASS II TEMPORARY STRIPING (MINIMUM 4' LONG SEGMENTS) SHALL BE AS PER ITEM 614 — WORK ZONE PAVEMENT MARKING AND SHALL BE PLACED WITHIN ONE (1) FOOT LONGITUDINAL TOLERANCE OF THE PERMANENT STRIPE(S). ALL TEMPORARY STRIPING NOT TO WITHIN ONE (1) FOOT TOLERANCE SHALL BE REMOVED AND REPLACED IN THE PROPER LOCATION BY THE CONTRACTOR. CLASS II TEMPORARY STRIPING SHALL BE OF THE APPROPRIATE COLOR AND SPACED A MAXIMUM OF FORTY (40) FEET CENTER TO CENTER.

EXISTING PERMANENT TRAFFIC CONTROL

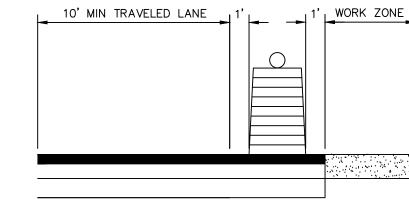
ANY WORK DONE BY THE DEPARTMENT OF PUBLIC SERVICE, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC CONTROL DEVICES AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NEGLIGENCE OF THE CONTRACTOR, SHALL BE AT THE CONTRACTORS' EXPENSE.

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.

THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS, INCLUDING RAISED PAVEMENT MARKERS (RPM) SHOWN IN CONFLICT, REMOVED DUE TO CONSTRUCTION OR MAINTENANCE OF TRAFFIC SET UP, DESTROYED, OR RENDERED UNSERVICEABLE BY THE PROJECT ENGINEER OR THE PUBLIC SERVICE PAVEMENT MARKING MANAGER. ALL PAVEMENT MARKING MATERIALS SHALL BE REPLACED IN—LIKE KIND IF NOT SHOWN IN THE PLAN OR PERMIT INCLUDING RAISED PAVEMENT MARKERS. ALL PAVEMENT MARKINGS SHALL BE REPLACED, TRAFFIC CONTROL SIGN, OR OTHER TRAFFIC CONTROL DEVICE SUCH THAT VISIBILITY OR OPERATION OF THE TRAFFIC CONTROL DEVICE IS IMPAIRED. ALL PERMANENT PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS AS SHOWN ON THIS PLAN SHALL BE INSTALLED BY THE CONTRACTOR AT THE PROJECTS EXPENSE. THE PROJECT ENGINEER SHALL BE NOTIFIED TO DIRECT APPROPRIATE PERSONNEL A MINIMUM OF FORTY—EIGHT (48) HOURS (EXCLUDING SAT. & SUN.) PRIOR TO THE INSTALLATION OF PERMANENT MARKINGS TO INSPECT AND APPROVE THE PAVEMENT MARKING LAYOUT PRIOR TO PLACING THE PERMANENT MARKINGS.

PERMANENT STRIPING OR CLASS I 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.

IF THE DEPARTMENT OF PUBLIC SERVICE IS TO INSTALL PERMANENT STRIPING, THE PROJECT ENGINEER SHALL BE NOTIFIED TO DIRECT APPROPRIATE PERSONNEL A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO THE APPLICATION OF THE FINAL COURSE OF PAVEMENT.



DRUM PLACEMENT DETAIL

NOT TO SCALE

LEGEND



RIGHT-OF-WAY

EXISTING EDGE OF PAVEMENT

PROPOSED SIGN

PROPOSED WORK ZONE

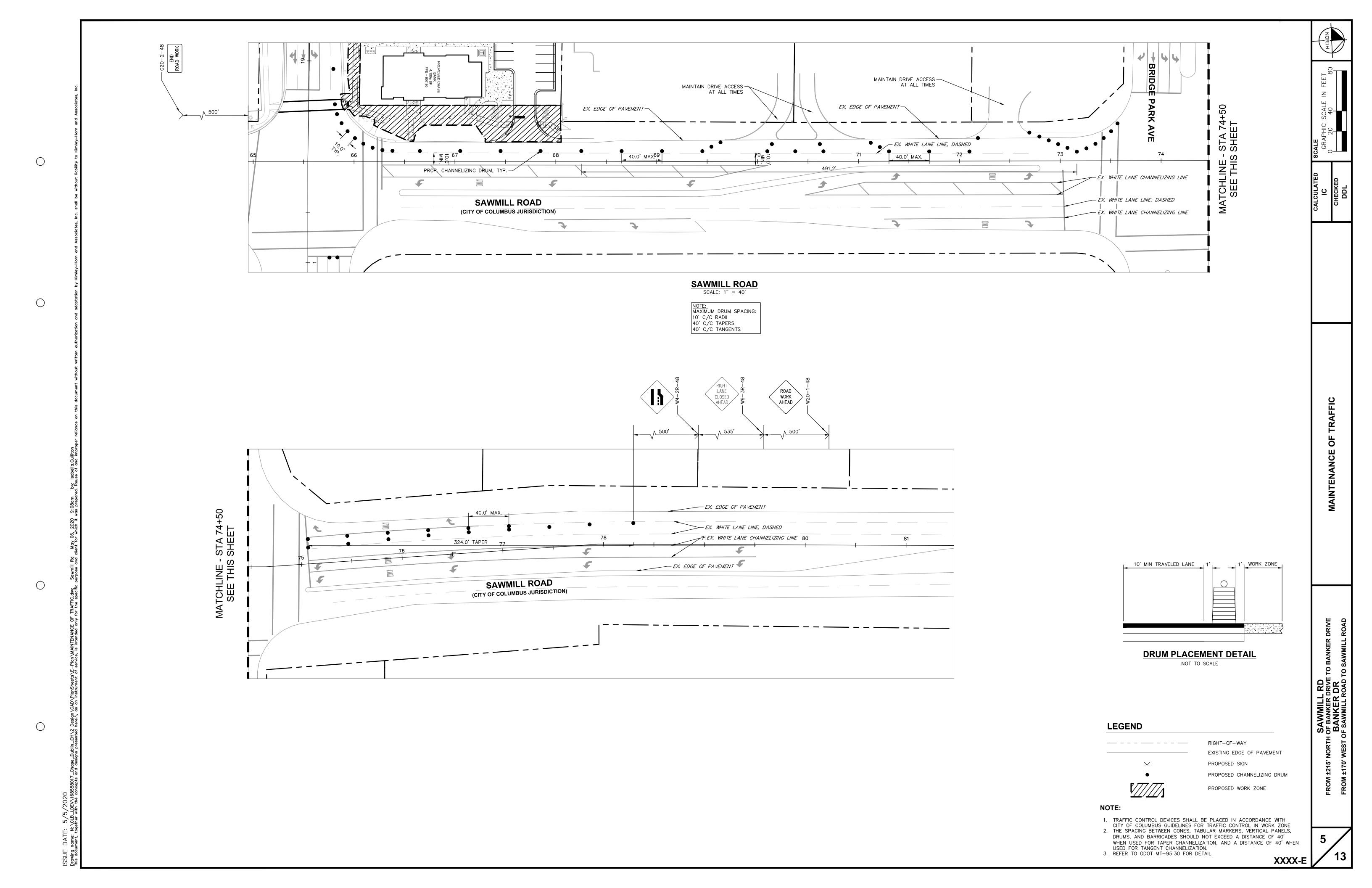
PROPOSED CHANNELIZING DRUM

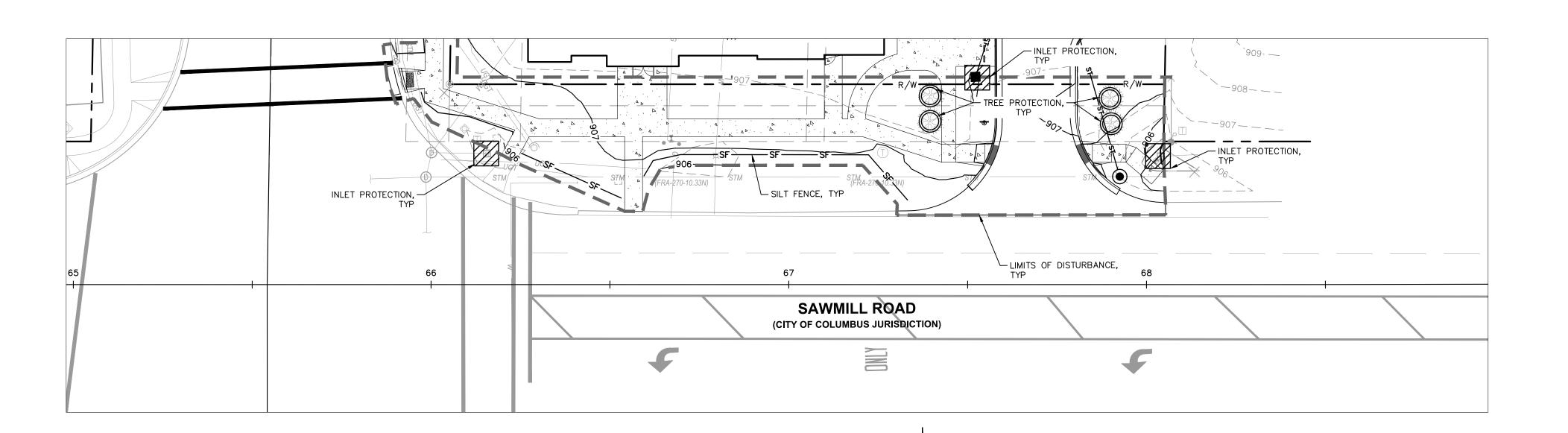
COLOGED CHANNELIZING DICC

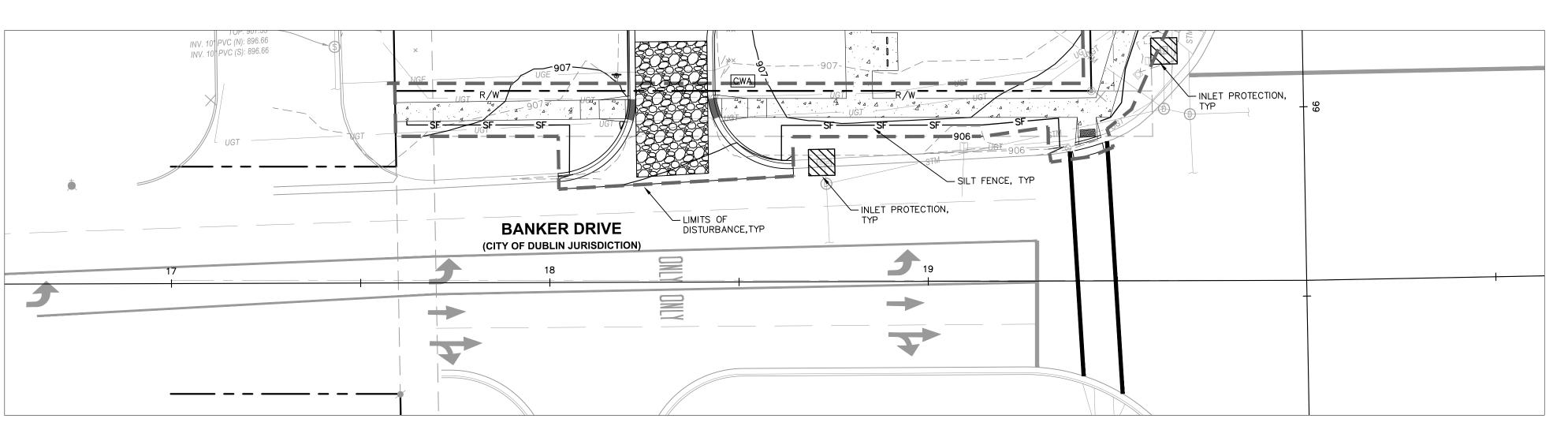
NOTE:

- TRAFFIC CONTROL DEVICES SHALL BE PLACED IN ACCORDANCE WITH
 CITY OF COLUMBUS GUIDELINES FOR TRAFFIC CONTROL IN WORK ZONE
 THE SPACING BETWEEN CONES, TABILLAR MARKERS, VERTICAL PANELS.
- 2. THE SPACING BETWEEN CONES, TABULAR MARKERS, VERTICAL PANELS, DRUMS, AND BARRICADES SHOULD NOT EXCEED A DISTANCE OF 35' WHEN USED FOR TAPER CHANNELIZATION, AND A DISTANCE OF 40' WHEN
- USED FOR TANGENT CHANNELIZATION.
 3. REFER TO ODOT MT—95.31 FOR DETAIL.

XXXX-E

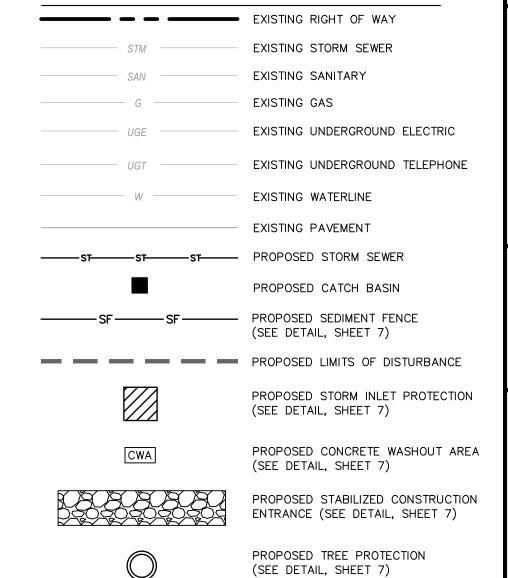












NOTES

- 1. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED TO THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
- 2. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS, THE CITY OF DUBLIN, AND/OR THE OHIO EPA.
- 3. THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
- 4. THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.
- 5. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION OF AND SUBSEQUENT FINES.
- 6. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.



Utilities Protection SERVICE Click, Call or Tap Before You Dig

KIMLEY HORN & ASSOCIATES, INC. 2400 CORPORATE EXCHANGE DR, STE 120

COLUMBUS, OH 43231 (614) 454-6697 DERIK LEARY, P.E.

DERIK.LEARY@KIMLEY-HORN.COM

6515 SAWMILL ROAD LLC CURRENT OWNER: 753 SOUTH FRONT ST

COLUMBUS, OH 43206

DEVELOPER: JPMORGAN CHASE BANK, N.A. 1300 E 9TH STREET, FLOOR 13 CLEVELAND, OH 44114 MAIL CODE OH2-5430

CONTACT: SETH BERK 216-781-2372

PROJECT DESCRIPTION: THE SITE CONSISTS OF RECONSTRUCTION OF A DRIVEWAY ALONG SAWMILL ROAD AND A DRIVEWAY ALONG BANKER DRIVE, AS WELL AS ADA ACCESSIBLE SIDEWALK ALONG SAWMILL

ROAD AND BANKER DRIVE. AN ESTIMATED ±0.2 ACRES WILL BE DISTURBED DURING CONSTRUCTION ACTIVITIES.

RECEIVING STREAM: SCIOTO RIVER (ULTIMATE OUTFALL)

ADJACENT AREAS: THE DEVELOPMENT IS BORDERED ON THE WEST BY THE GOODWILL PARKING LOT, ON THE EAST BY SAWMILL ROAD, ON THE NORTH BY THE OLLIE'S BARGAIN OUTLET PARKING LOT,

AND ON THE SOUTH BY BANKER DRIVE.

THE SOILS ON THE SITE CONSIST OF:

CrA - CROSBY SILT LOAM, SOUTHERN OHIO TILL PLAIN, 0 TO 2 PERCENT SLOPES Ko - KOKOMO SILTY CLAY LOAM, O TO 2 PERCENT SLOPES

EROSION AND SEDIMENT PERIMETER SEDIMENT FENCE AND STORM SEWER INLET PROTECTION WILL BE CONTROL MEASURES: USED TO ASSIST WITH THE MANAGEMENT OF THE CONSTRUCTION SITE STORMWATER

PERMANENT STABILIZATION: THE SITE WILL BE STABILIZED BY THE USE OF SEEDING OR SODDING IN OVERLOT AREAS.

MAINTENANCE:

ALL EROSION CONTROL DEVICES ARE TO BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT DAILY AND AFTER SIGNIFICANT RAINFALLS. ANY DAMAGED FACILITIES ARE TO BE REPLACED/REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

CONSTRUCTION SEQUENCE:

1. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.

2. INSTALL PERIMETER EROSION AND SEDIMENT CONTROL.

3. CLEAR AND GRUB AS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES.

4. CONSTRUCT STORM SEWER. INSTALL INLET PROTECTION AND OTHER INLET CONTROL DEVICES AS STORM SEWERS ARE COMPILED.

5. FINE GRADING, PAVEMENT & CURB INSTALLATION.

6. PERMANENTLY STABILIZE/SEED AND MULCH OR SOD DISTURBED AREAS PER

SPECIFICATIONS.

7. REMOVE REMAINING EROSION AND SEDIMENT CONTROL DEVICES.

SCHEDULE:

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.

OHIO EPA FACILITY/ PERMIT NUMBER:

SITE CONTACT:

6515 SAWMILL ROAD, LLC 753 SOUTH FRONT STREET COLUMBUS, OH 43206 CONTACT: AVERN ABROMS

EROSION AND SEDIMENT CONTROL NOTES

THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLAN AS INDICATED BY THE LIMITS OF DISTURBANCE. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

TEMPORARY SEEDING: ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE SHALL BE STABILIZED WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS. ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE SHALL BE STABILIZED WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S). DISTURBED AREAS THAT WILL BE IDLE OVER WINTER MUST BE STABILIZED PRIOR TO THE ONSET OF WINTER WEATHER.

MARCH 1 TO AUGUST 15

OATS 2 LBS./1,000 SQ. FT.

FERTILIZER: (12: 12: 12) 25 LBS./1,000 SQ. FT. MULCH: (STRAW OR HAY) 2 TONS /ACRE

AUGUST 15 TO NOVEMBER 1

SEED: ANNUAL RYE 2 LBS./1,000 SQ. FT. FERTILIZER: (12:12:12) 25 LBS./1,000 SQ. FT.

MULCH: (STRAW OR HAY) 2 TONS/ACRE

NOVEMBER 1 TO MARCH 1 MULCH (ONLY): (STRAW OR HAY)2 TONS/ACRE

PERMANENT SEEDING: ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE MUST BE STABILIZED WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE. ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE MUST BE STABILIZED WITHIN TWO DAYS OF REACHING FINAL GRADE. OTHER AREAS AT FINAL GRADE MUST BE STABILIZED WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.

RATES OF APPLICATION OF ITEM 659:

4 LBS/1000 SQ. FT.

FERTILIZER: (12:12:12) 20 LBS/1000 SQ. FT. MULCH: STRAW (HAY) 2 TONS/ACRE (3 TONS/ACRE)

E CONTRACTOR SHALL NOT USE CONSTRUCTION PROCEEDINGS, ACTIVITIES OR OPERATIONS THAT MAY UNNECESSARILY IMPACT THE NATURAL ENVIRONMENT OR THE PUBLIC HEALTH AND SAFETY, PROHIBITED CONSTRUCTION PROCEEDINGS, ACTIVITIES, OR OPERATIONS INCLUDE BUT NOT LIMITED TO:

1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAIN, EVEN WITH THE

PERMISSION OF THE PROPERTY OWNER. 2. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY

WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS 3. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS,

ANY STREAM CORRIDORS, ANY WETLANDS OR STORM DRAINS. 4. DISCHARGING POLLUTANTS SUCH AS CHEMICAL, FUEL, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWERAGE, AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.

5. PERMANENT OR UNSPECIFIED ALTERATIONS OF THE CONSTRUCTED AREA.

DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA. DISPOSAL OR TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY

SUBSURFACE WATERS. OR AT UNSPECIFIED LOCATIONS. 8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.

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

<u>SEDIMENT FENCE</u>

THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED. MATERIAL PROPERTIES ARE LISTED IN THE PROVIDED TABLE.

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.

4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE. 5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE

INSTALLATION OF THE SILT FENCE. 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE. 7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER

SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH. 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC

9. SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6 INCHES OVERLAP PRIOR TO DRIVING INTO THE GROUND. (SEE DETAILS)

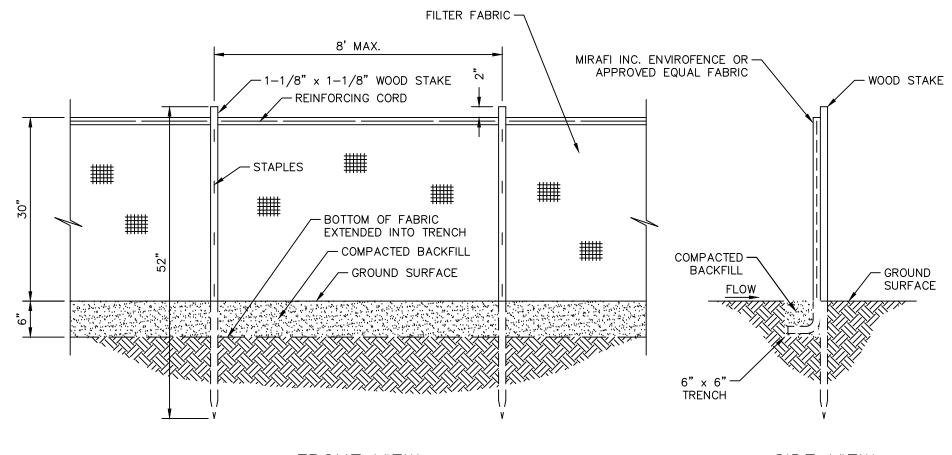
10. MAINTENANCE - SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS:

1. FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES LONG. WOOD POSTS WILL BE 2-BY-2 INCH NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER

2. SEDIMENT FENCE FABRIC SHALL BE ODOT, TYPE C GEOTEXTILE FABRIC OR THE EQUIVALENT TO THE PROPERTIES IN THE TABLE BELOW.

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS (535 N)	ASTM D 4632
MINIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	< OR = 0.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10-2 SEC. ⁻¹	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355



FRONT VIEW SIDE VIEW

SEDIMENTATION/SILT FENCE

N.T.S.

- LIFT HANDLES - GALVANIZED STEEL FRAME FEATURE STAINLESS STEEL LOCKING BAND GEOTEXTILE FILTER BAG -WITH REINFORCED POLYESTER OUTER MESH

ALL PRODUCTS MANUFACTURED BY INLET AND PIPE PROTECTION, INC OR APPROVED EQUAL.

NOTE: INLET FILTERS ARE SLIGHTLY SMALLER THAN THE INLET GRATE SIZES. WHEN IDENTIFYING OR SPECIFYING FILTERS/CASTINGS PLEASE REFER TO THE DIAMETER "D" OR WIDTH "W" AND HEIGHT "H" OF FILTER FRAMES OR CASTING GRATES. YOU MAY ALSO REFER TO OUR CASTING CROSS REFERENCE GUIDE FOR ODOT STANDARDS

NOTE: ROUND AND SQUARE INLET FILTERS AVAILABLE FOR MOST NEENAH AND EAST JORDAN BEEHIVE, ROLL CURB AND CURB BOX FRAME TYPES

INLET PROTECTION

THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS.

THE USE OF STRAW WATTLES HAS PROVEN TO BE A

VERSATILE AND EFFECTIVE ESC BMP. ESPECIALLY IN

SUBSTITUTED FOR SILT FENCE. STRAW WATTLES OR

ADDITIONALLY, THE USE OF COMPOST FILTER SOCKS

ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED

RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE

COMPOST ROLLS HAVE TO BE A MINIMUM OF 12

AND COMPOST BLANKETS ARE GAINING WIDER

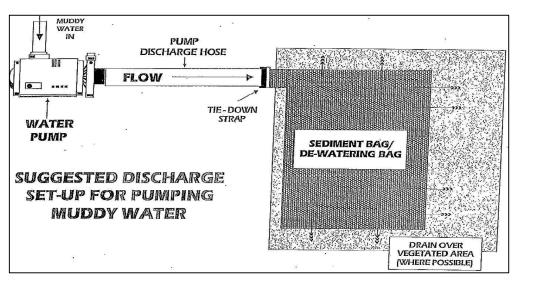
FOR USE ON ALL COLUMBUS SWP3 PLANS AND

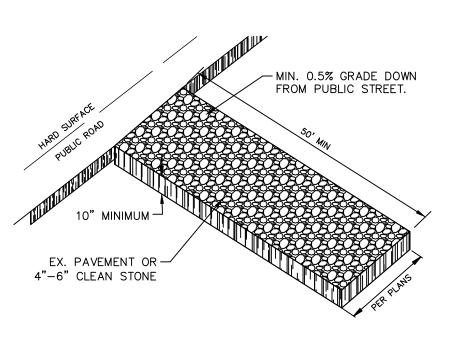
INCHES IN DIAMETER NOW (OEPA).

CONSTRUCTION SITES.

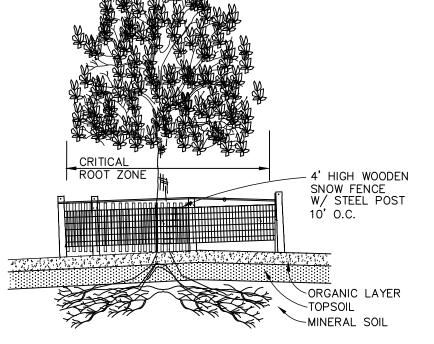
ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGE SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER SYSTEM AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.

DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURE'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL BELOW OF A TYPICAL SEDIMENT BAG INSTALLATION.





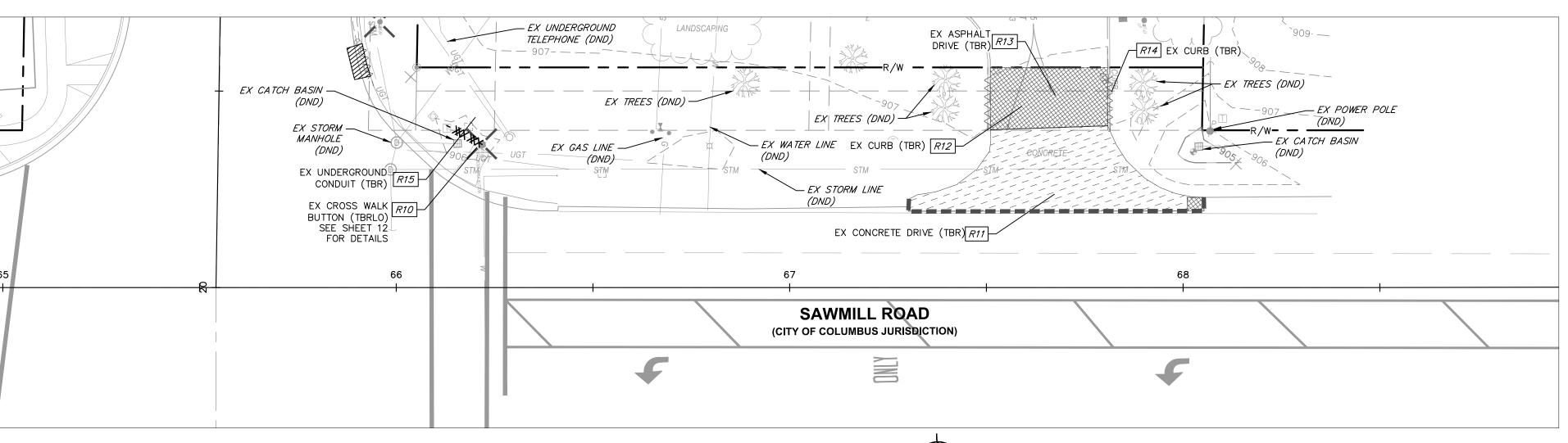
CONSTRUCTION ENTRANCE



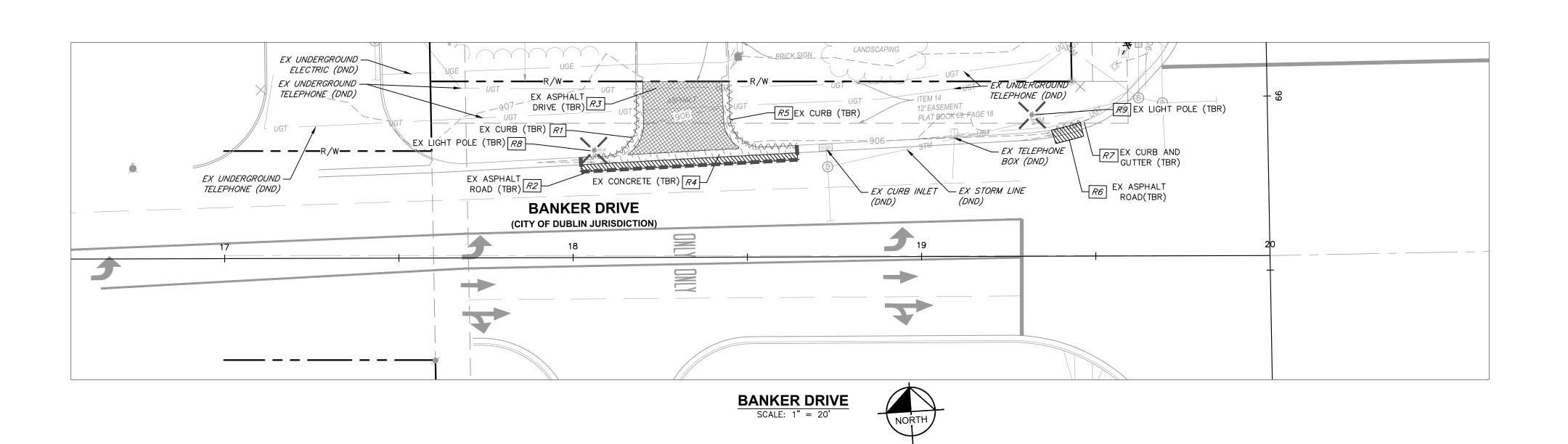
PROVIDE FENCE AROUND CRITICAL ROOT ZONE OF TREE. FENCE SHALL BE PLACED IN A CIRCLE WITH A RADIUS OF 1' PER 1" DIAMETER OF THE TREE MEASURED AT 4.5' ABOVE GROUND FOR INDIVIDUAL TREES OR STANDS OF TREES.

TREE PROTECTION









	BANKER DRIVE									
				202	202	202	202	-		
				ASPHALT PAVEMENT REMOVAL	ASPHALT DRIVE REMOVED	CURB AND GUTTER REMOVED	CONCRETE DRIVE REMOVED	LIGHT POLE REMOVED		
REF. #	FROM	то	SIDE	SQ. YD.	SQ. YD.	LF	SQ. YD.	EACH		
R1	18+02	18+18	LT	_	_	16	-	_		
R2	18+02	18+64	_	14	_	_	_	-		
R3	18+16	18+48	_	_	54	_	-	_		
R4	18+02	18+64	_	_	_	_	14	_		
R5	18+45	18+64	RT	_	_	19	-	_		
R6	19+37	19+46	_	4	_	_	_	_		
R7	19+37	19+46	_	_	_	9	_	_		
R8	18+06	18+06	_	_	_	_	_	1		
R9	19+32	19+32	_	_	_	_	-	1		
	TOT	ALS		18	54	44	14	2		

SAWMILL ROAD										
				202	202	202	202	-	_	
				ASPHALT PAVEMENT REMOVAL	ASPHALT DRIVE REMOVED	CURB AND GUTTER REMOVED	CONCRETE DRIVE REMOVED	CROSS WALK BUTTON RELOCATED	UNDERGROUND CONDUIT REMOVED	
REF. #	FROM	то	SIDE	SQ. YD.	SQ. YD.	LF	SQ. YD.	EACH	LF	
R10	66+22	_	_	_	_	_	_	1	_	
R11	67+32	68+05	_	14	_	_	99	_	_	
R12	67+50	67+50	LT	_	_	16	_	_	_	
R13	67+50	67+81	_	_	51	_	_	_	_	
R14	67+81	67+81	RT	_	_	16	_	_	_	
R15	66+13	66+22	RT	_	_	_	_	_	10	
	ТОТ	ALS		14	51	32	99	1	10	

LEGEND

	EXISTING RIGHT OF WAY
STM	EXISTING STORM SEWER
SAN	EXISTING SANITARY
G	EXISTING GAS
UGE	EXISTING UNDERGROUND ELECTRIC
UGT	EXISTING UNDERGROUND TELEPHONE
	EXISTING WATERLINE
	EXISTING PAVEMENT
	EXISTING CENTERLINE
	EXISTING PAVEMENT
	ITEM TO BE REMOVED
	ASPHALT PAVEMENT 1.5" MILL AND OVERLAY
	ASPHALT DRIVE REMOVAL
	CONCRETE DRIVE REMOVAL
- //////	CURB AND GUTTER REMOVAL
	SAWCUT LINE
	UTILITY REMOVAL
DND	DO NOT DISTURB
ATG	ADJUST TO GRADE
R&R	REMOVE AND REPLACE

TO BE REMOVED TO BE RELOCATED

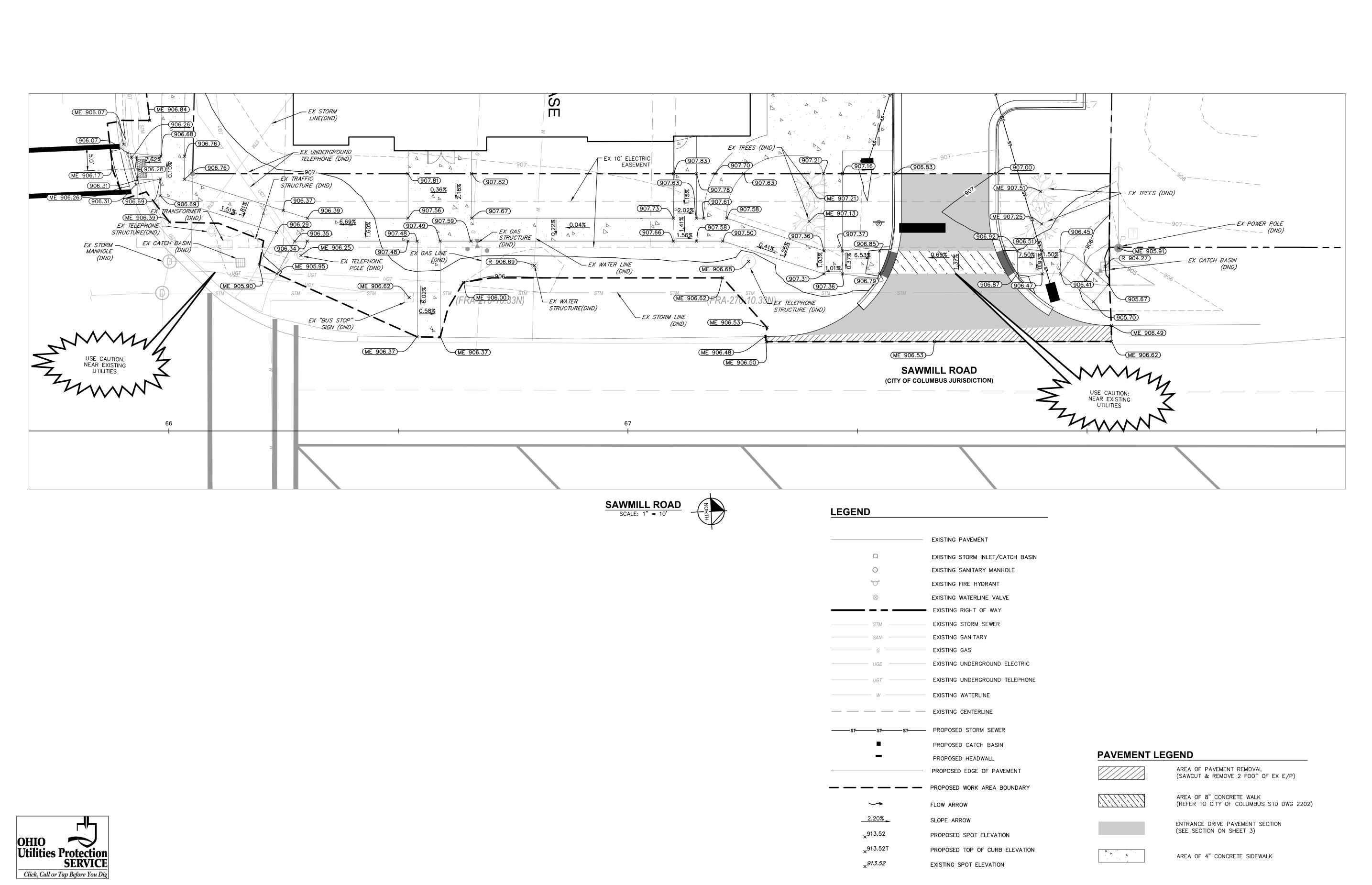
TO BE ABANDONED

NOTES

TBRLO

- EXISTING STORM SEWERS, SANITARY SEWERS, AND WATERLINES SHALL BE PROTECTED AND REMAIN IN PLACE UNDISTURBED UNLESS SPECIFICALLY LISTED FOR ABANDONMENT AND/OR REMOVAL ON THE DEMOLITION.
- 2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO DEMOLITION.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVAL ALL DEBRIS ASSOCIATED WITH THIS DEMOLITION, NOT PRE-ASSIGNED FOR RETURN TO A SPECIFIC ORGANIZATION, OFF-SITE PRIOR TO THE PROJECT COMPLETION. IN NO INSTANCE SHALL MATERIAL BE BURIED ON THIS SITE.
- 4. SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALKS AND CURB TO THE NEAREST JOINT. CONNECT PROPOSED CONCRETE TO EXISTING CONCRETE WITH EXPANSION JOINT MATERIAL AS NEEDED.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION OF ADJACENT PROPERTIES OF STRUCTURES THAT MAY BECOME DAMAGED AS A RESULT OF DEMOLITION.
- 6. ANY EXISTING PAVEMENT DISTURBED BEYOND THE WORK SHOWN ON THE PLANS SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH ITEM 252 AND CITY OF COLUMBUS STANDARD DRAWING 1441 AT THE CONTRACTORS EXPENSE.
- 7. PROTECT ALL EXISTING SITE FEATURES TO REMAIN. REPAIR ANY DAMAGES TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
- 8. PRIVATE UTILITY COMPANY TO OBTAIN CHAPTER 903 PERMIT WITH THE CITY OF COLUMBUS BEFORE REMOVING/RELOCATING ANY UTILITY POLES.
- 9. CONTRACTOR TO VERIFY PRIVATE RESIDENCE UTILITY SERVICES AND COORDINATE ANY TEMPORARY SHUT-OFFS WITH RESIDENTS AND SERVICE PROVIDERS AS NECESSARY, ADJUST ALL SURFACE VALVES TO GRADE AS NECESSARY.

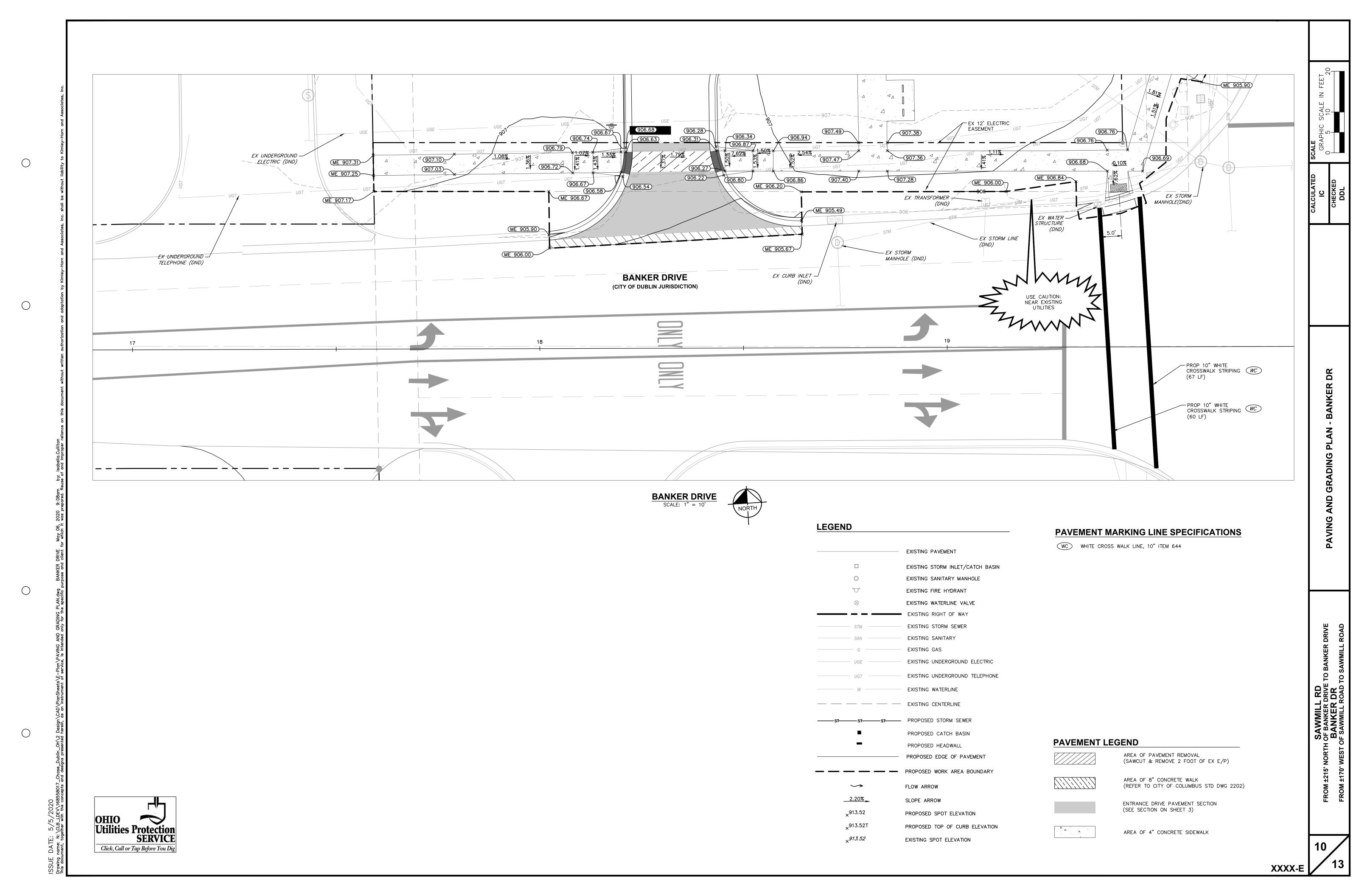


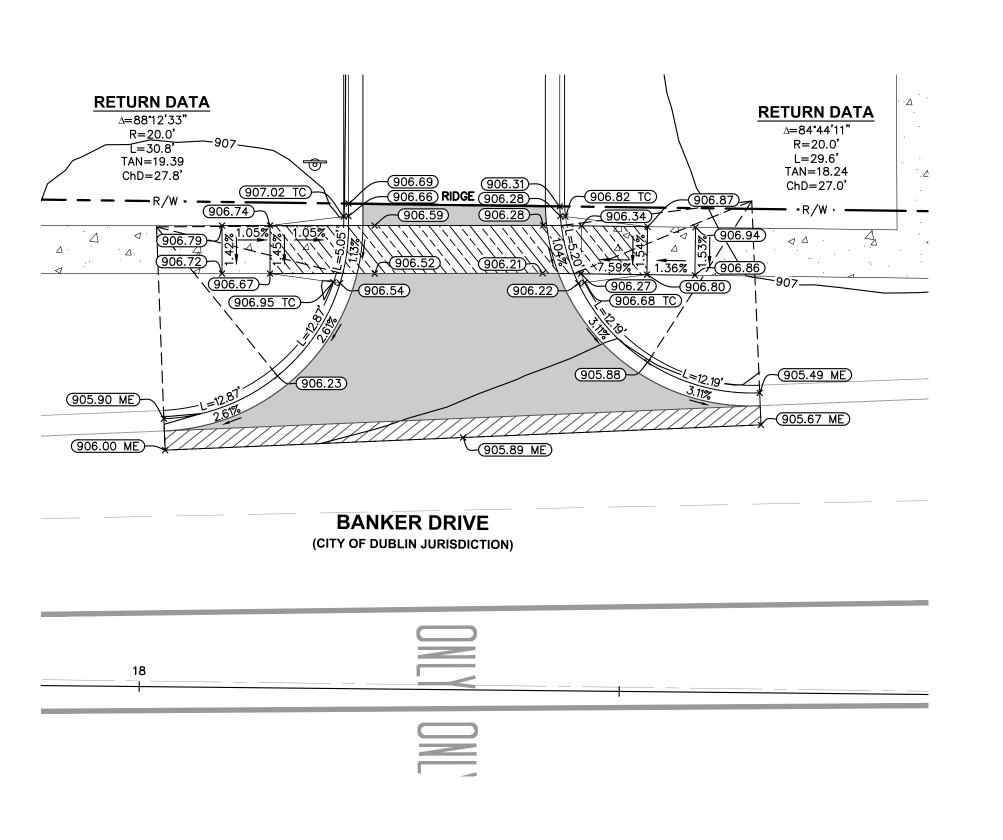


9

XXXX-E

(X.F | /

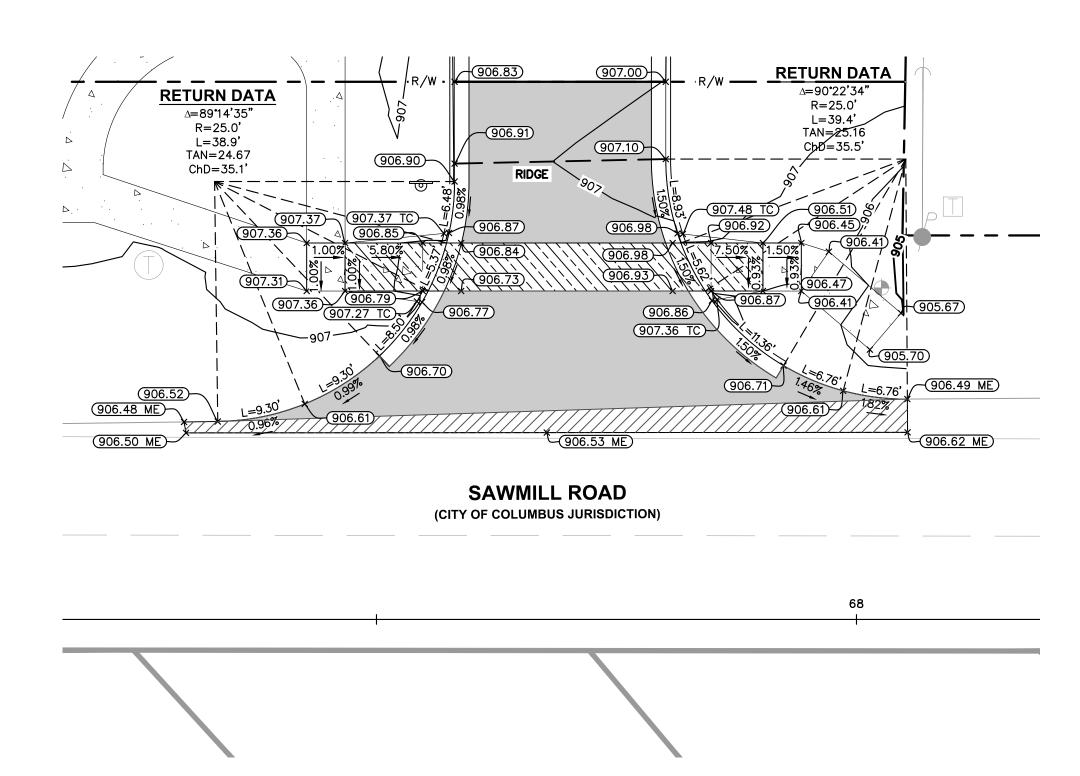




DETAIL - DRIVE ON BANKER DR @ C/L STA. 18 +32.06

SCALE: 1"=10'





DETAIL - DRIVE ON SAWMILL RD @ C/L STA. 63 + 71.96

SCALE: 1"=10'



LEGEND

RIGHT-OF-WAY

EXISTING PAVEMENT

PROPOSED SIDEWALK

PROPOSED SAWCUT

PROPOSED SPOT ELEVATION

WXXX.XX TC

PROPOSED TOP OF CURB ELEVATION

XXX.XX ME

EXISTING SPOT ELEVATION

PAVEMENT LEGEND

A (S

AREA OF PAVEMENT REMOVAL (SAWCUT & REMOVE 2 FOOT OF EX E/P)

AREA OF 8" CONCRETE WALK
(REFER TO CITY OF COLUMBUS STD DWG 2202)

ENTRANCE DRIVE PAVEMENT SECTION (SEE SECTION ON SHEET 3)

AREA OF 4" CONCRETE SIDEWALK (REFER TO TYPICAL SECTION, SHEET 3)

NOTE:

1. ALL DIMENSIONS ARE FOR FACE OF CURB.

OHIO
Utilities Protection
SERVICE
Click, Call or Tap Before You Dig

YYYY_F

11

ALL INCIDENTAL WORK ITEMS CALLED FOR IN THESE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE TOTAL COST OF SAID

PLAN AND SPECIFICATION COMPLIANCE

ITEMS SHALL BE INCLUDED IN THE PRICE OF ITS ASSOCIATED BID ITEM.

THE CONTRACTOR SHALL FURNISH AND INSTALL TRAFFIC SIGNAL DEVICES IN COMPLIANCE WITH THESE PLANS AND SPECIFICATIONS, THE 2018 CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS AND ITS SUPPLEMENTAL SPECIFICATIONS, OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE STANDARD CONSTRUCTION DRAWINGS ISSUED BY THE CITY OF COLUMBUS. THE CITY OF COLUMBUS, SHALL DETERMINE WHETHER THE SUPPLIED ITEMS MEET OR EXCEED THESE SPECIFICATIONS.

TRAFFIC SIGNAL CONTROL EQUIPMENT SHALL MEET OR EXCEED THE STANDARDS SPECIFIED IN THE FOLLOWING DOCUMENTS:

(A) SPECIFICATIONS LISTED IN THIS PLAN;
(B) APPLICABLE SECTIONS OF NEMA STANDARDS PUBLICATION NO. TS2-1998 AND/OR TS1 1989;
(C) 2018 CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS 625, 632, 633, 725, 732

IN CASE OF A CONFLICTING SPECIFICATION STATEMENT, THE SPECIFICATION DOCUMENT HIERARCHY SHALL BE IN THE ORDER LISTED FROM (A) HIGHEST, TO (D) LOWEST.

MAINTENANCE OF TRAFFIC SIGNAL INSTALLATIONS

(D) CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWINGS

PROPOSED TRAFFIC SIGNAL INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PROPOSED TRAFFIC SIGNAL DEVICES UNDER THE FOLLOWING CONDITIONS FROM THE TIME OF INSTALLATION UNTIL THE DEVICE HAS BEEN ACCEPTED BY THE CITY.

THE CONTRACTOR SHALL PROVIDE 2 OR MORE CONTACTS WHO CAN RECEIVE ALL DEVICE OUT—OF—SERVICE CALLS THAT FALL UNDER THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL DISPATCH MAINTENANCE PERSONNEL TO CORRECT THE PROBLEM. THE CONTRACTOR SHALL PROVIDE THE CITY AND THE PROJECT ENGINEER WITH ADDRESSES AND PHONE NUMBERS OF THESE CONTACTS. MAINTENANCE PERSONNEL MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS CONTINUOUSLY AVAILABLE 24 HOURS A DAY AND 7 DAYS A WEEK. THE CONTRACTOR SHALL PROVIDE MAINTENANCE SERVICE ENTIRELY WITH HIS PERSONNEL.

THE CONTRACTOR SHALL CORRECT ALL BULB OUTAGES, DEVICE MALFUNCTIONS OF ANY TYPE, INTERNAL CABINET POWER LOSES, SPAN OR CABLE PROBLEMS AND MISALIGNED OR DAMAGED VEHICULAR OR PEDESTRIAN SIGNAL HEADS WITHIN 2 HOURS AFTER THE CONTRACTOR'S CONTACT PERSON HAS BEEN NOTIFIED OF ANY ONE OF THE ABOVE. IN THE EVENT A NEW SIGNAL DEVICE IS DAMAGED PRIOR TO ACCEPTANCE, THE DAMAGED DEVICE, EXCEPT POLES, SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY. ANY DAMAGED CABINET ASSEMBLY DEVICE IF REPAIRED SHALL BE TESTED ONCE AGAIN BY THE CITY BEFORE THE DEVICE CAN BE INSTALLED.

IN THE EVENT OF A LOSS OF POWER TO THE SIGNAL INDICATIONS OTHER THAN AN ELECTRIC COMPANY GENERAL POWER OUTAGE, THE CONTRACTOR, AT HIS EXPENSE, SHALL IMMEDIATELY TAKE ACTION (WITHIN 30 MINUTES) TO PROPERLY ERECT TEMPORARY STOP SIGN(S) AND PROVIDE POLICE OFFICER(S) TO DIRECT TRAFFIC UNTIL THE SIGNAL IS BACK ON "FLASH" OR OPERATING PROPERLY.

IF A TRAFFIC STRAIN, SUPPORT OR PEDESTAL POLE IS DAMAGED AND THAT DAMAGE CAUSES POLE INSTABILITY, THEN THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION (WITHIN 2 HOURS) TO STABILIZE IT. THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR PROVIDING THE PROJECT WITH A NEW UNDAMAGED POLE.

WHERE OUT-OF-SERVICE CALLS ARE THE DIRECT RESULT OF A VEHICULAR ACCIDENT, THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COLLECTION OF ANY COMPENSATION FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE TO THE CONTRACTOR'S MATERIALS.

WHERE THE CONTRACTOR HAS FAILED TO RESPOND OR CANNOT RESPOND TO AN OUT-OF-SERVICE CALL WITHIN THE TIME PERIOD SPECIFIED ABOVE AT LOCATIONS UNDER HIS RESPONSIBILITY, THE CITY MAY TAKE ACTION AS IT DEEMS NECESSARY TO CORRECT THE SITUATION. THIS ACTION MAY INCLUDE CONTROLLING THE INTERSECTION USING COLUMBUS POLICE OFFICERS, COMPLETELY REMOVING OR REPLACING ANY MALFUNCTIONING TRAFFIC CONTROL DEVICE, AND/OR INSTALLING ANY DEVICE(S) REQUIRED TO RETURN THE INTERSECTION TO REGULAR SIGNAL OPERATION. ALL COSTS ASSOCIATED WITH THESE ACTIONS SHALL BE BILLED DIRECTLY TO THE CONTRACTOR AND NOT INCLUDED IN ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN.

ANY NON-OPERATING VEHICULAR OR PEDESTRIAN SIGNAL HEAD OR PUSHBUTTON SHALL BE COVERED AS REFERENCED IN THESE PLANS. ALL SIGNAL HEADS, WHILE COVERED, SHALL BE DARK BY DISCONNECTING POWER TO THE SIGNAL INDICATIONS. NO COVERED HEAD SHALL BLOCK THE VIEW OF AN OPERATING HEAD. A MINIMUM OF 2 VEHICULAR SIGNAL HEADS PER TRAVELED DIRECTION (SPACED 8 FT. APART MINIMUM AND 12 FT. MAXIMUM) SHALL BE OPERATING AT ALL TIMES.

EXISTING TRAFFIC SIGNAL DEVICES

THE CITY OF COLUMBUS, (ELECTRONICS MAINTENANCE SHOP, 645-7933), SHALL PERFORM ROUTINE MAINTENANCE ON ALL EXISTING CABINET ASSEMBLY ITEMS ONLY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL OTHER EXISTING TRAFFIC SIGNAL DEVICES ONCE ANY PROJECT SIGNAL WORK HAS STARTED. IF, IN THE COURSE OF WORK, THE GENERAL CONTRACTOR OR ANY PROJECT SUB-CONTRACTOR CAUSES DAMAGE TO ANY EXISTING TRAFFIC SIGNAL DEVICE OTHER THAN THE CABINET ASSEMBLY, THEN THE CONTRACTOR, AT THE CONTRACTOR'S COST, SHALL REPAIR AND/OR REPLACE THE DAMAGED DEVICE TO THE SATISFACTION OF THE CITY. DAMAGE TO THE CABINET ASSEMBLY BY ANY PROJECT CONTRACTOR SHALL BE REPAIRED BY THE CITY AND BILLED TO THE GENERAL CONTRACTOR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS, EXCEPT AS NOTED, SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN.

ITEM 625 TRENCH, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF 625.13, THE INSTALLATION DEPTH OF THE PROPOSED CONDUIT SHALL CORRELATE TO THE DEPTH OF THE PULL BOX STRUCTURE SERVICING THE CONDUIT RUN. CONDUIT ENTERING 18 INCH PULL BOXES SHALL BE 24 INCHES DEEP. CONDUIT ENTERING 27 INCH PULL BOXES SHALL BE 30 INCHES DEEP. CONDUIT ENTERING 32 INCH PULL BOXES SHALL BE 30 TO 36 INCHES DEEP. CONDUIT ENTERING 48 INCH PULL BOXES SHALL BE 39 INCHES DEEP. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MODIFY THE DEPTH OF THE CONDUIT TO ACCOMMODATE THE VARIOUS TERMINATION DEPTHS AND UTILITY CONFLICTS. SHARP CHANGES IN CONDUIT ELEVATION WILL NOT BE PERMITTED. IF BOTH ENDS OF A CONDUIT RUN ENTER THE SAME SIZE STRUCTURE, THEN THE ENTIRE LENGTH OF CONDUIT SHALL BE PLACED AT THAT DEPTH. IF THE TWO ENDS ENTER DIFFERENT DEPTH STRUCTURES, THE CHANGE IN ELEVATION SHALL BE MADE OVER THE ENTIRE LENGTH OF THE CONDUIT RUN. TRENCH UNDER PROPOSED ROADWAYS SHALL HAVE A MINIMUM OVERALL DEPTH OF 36 INCHES AND OR A MINIMUM DEPTH OF 24 INCHES UNDER THE FINAL PAVEMENT SUBGRADE, WHICHEVER IS DEEPEST. INCIDENTAL TO THIS ITEM IS THE REPAIR OF SIDEWALK, ROADWAY, BRICK, CURB, CURB RAMPS, AND LANDSCAPING. 5/17/16

ITEM 632 PEDESTRIAN PUSHBUTTON, AS PER PLAN

THE PUSHBUTTON SHALL BE A POLARA BULLDOG III, MODEL NO. BDL3-Y-4H WITH POLARA BULLDOG MOUNTING MODEL NO. APBC2-Y1. THE PUSHBUTTON SHALL BE RATED FOR MEDIUM OR HEAVY DUTY USAGE AND HAVE A BARRIER TYPE OF LUG TERMINAL FOR ATTACHMENT OF THE FIELD CABLE. A CLEAR BEAD OF SILICONE SEALANT SHALL BE APPLIED TO THE TOP OF THE PUSHBUTTON HOUSING (1 INCH EACH SIDE OF TOP CENTER) AGAINST THE POLE TO PREVENT WATER FROM ENTERING THE BACK OF THE PUSHBUTTON HOUSING. ONE SIGN SHALL BE SUPPLIED AND MOUNTED WITH EACH PUSHBUTTON AS PER SCD 4230. THE BOTTOM OF THE SIGN SHALL BE MOUNTED JUST ABOVE THE TOP OF THE PUSHBUTTON. MOUNT THE CENTER OF THE PUSHBUTTON 42" ABOVE THE PEDESTRIAN PATHWAY SURFACE. 1/10/19

ITEM 632 PEDESTRIAN SIGNAL HEAD, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF 632.08,

THE PEDESTRIAN SIGNAL HEAD SHALL BE A 16-IN. X 18-IN., SYMBOLIC LED COUNTDOWN UNIT WITH FULL HAND AND FULL PERSON SYMBOLS. THE UNIT SHALL BE A DIALIGHT CORPORATION LED PEDESTRIAN SIGNAL, PART NO. 430-6479-001 X; GE LUMINATION GT1 LED PEDESTRIAN SIGNAL MODEL NO. PS7-CFF1-26A; OR TRASTAR, INC. DURALIGHT LED PEDESTRIAN SIGNAL, MODEL NO. JXM-400VIEIL. THE HOUSING AND TWO-HINGED TYPE BRACKETS SHALL BE BLACK. THE BRACKETS SHALL BE HINGED TO ALLOW THE PEDESTRIAN HEADS TO SWING AWAY FROM EACH OTHER. 12/11/15

ITEM 632 SIGNALIZATION MISC.: DELASHING AND RELASHING OF CABLE

WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, LEAD—IN CABLES AND/OR DROP CABLE ARE TO BE LASHED IN WITH EXISTING CABLES ON EXISTING MESSENGER WIRE. THE CONTRACTOR SHALL CAREFULLY REMOVE THE EXISTING LASHING ROD, REMOVE THE EXISTING CABLE, INSERT THE NEW CABLE IN THE EXISTING BUNDLE, AND RELASH THE BUNDLE. CARE SHALL BE TAKEN TO MAINTAIN A NEAT APPEARANCE OF THE LASHED CABLES. THE EXISTING LASHING ROD MAY BE REUSED UNLESS IT IS

SHOWING RUST OR DAMAGE. ALL REPLACEMENT LASHING ROD SHALL BE FURNISHED BY THE CONTRACTOR.

PAYMENT FOR DELASHING AND RELASHING WILL BE MADE PER LINEAL FOOT OF CABLE INTEGRATED INTO THE EXISTING BUNDLE UNDER ITEM 632, "SIGNALIZATION MISC.: DELASHING AND RELASHING OF CABLE". MEASUREMENTS WILL BE MADE OF THE ACTUAL LENGTH OF CABLE OVER WHICH THIS OPERATION TAKES PLACE. OVERLASHING OR LASHING ON BARE MESSENGER WIRE IS NOT A PART OF THIS ITEM. PAYMENT FOR THE CABLE TO BE INSTALLED BY THIS METHOD WILL BE PAID FOR UNDER THE APPROPRIATE CABLE

ITEM 625 CONDUIT BORED, 2", AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF 625.12, CONDUIT PLACED UNDER EXISTING PAVEMENT OR PAVED SHOULDER SHALL BE INSTALLED BY HORIZONTAL BORING.

CONDUIT CROSSING UNDER ROADWAYS SHALL BE EPEC-80-HDPE CONDUIT.

TRACING WIRE SHALL BE INSTALLED IN ALL NEW CONDUIT THAT WILL CONTAIN FIBER OPTIC CABLE AND IS CONSIDERED INCIDENTAL TO THIS BID ITEM.

ADDITIONALLY, THE CONTRACTOR SHALL INSTALL NON-ORGANIC FIBERGLASS PULL TAPE WITH A MINIMUM 1800 FT./LBS. TENSION STRENGTH IN ALL CONDUIT. THE PULL TAPE AND ITS INSTALLATION SHALL BE INCIDENTAL TO THE COST OF THIS PAY ITEM.

THE BORE SHALL NOT EXCEED THE CONDUIT DIAMETER BY MORE THAN 5 PERCENT. THE CONDUIT SHALL BE PLACED WITH A MINIMUM OF DISTURBANCE TO THE ROADWAY.

THE WORK AS DESCRIBED WILL BE MEASURED AS THE ACTUAL NUMBER OF LINEAR FEET OF CONDUIT FURNISHED AND INSTALLED, MEASURED IN PLACE, AS ACCEPTED BY THE ENGINEER, AND INCLUDING EXCAVATION, CONDUIT, HORIZONTAL BORING, AND RESTORATION.

BORED CONDUIT WILL BE PAID FOR PER LINEAR FOOT, AND WILL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SPECIFIED. 10/23/15

ITEM 625 NO. 4 AWG 600 VOLT DISTRIBUTION CABLE, AS PER PLAN

INSULATED CABLE SHALL BE USED FOR THE GROUND WIRE (GND) WHERE INDICATED FOR SYSTEM GROUNDING AND BONDING. THE JACKET OF THE GND WIRE SHALL BE GREEN WITH TWO YELLOW STRIPES/TRACERS. THIS GND WIRE SHALL BE SEPARATE FROM THE GROUND ROD WIRE, BUT SHALL BE CONNECTED TO THE SAME GROUNDING BOLT USED FOR THE GROUND ROD WIRE ATTACHMENT AT THE POLE. THE GND WIRE SHALL BE TAGGED AS "GND SYS" AT ALL POLE LOCATIONS, PULL BOXES, AND & CONTROL CABINETS. 10/6/15

DETAIL SHEET NOTES

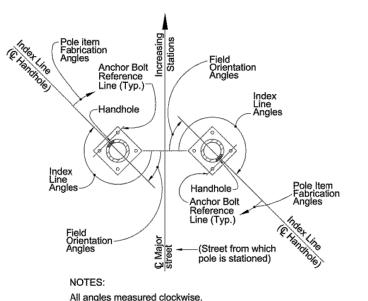
1. N/A

2. LOOP DETECTOR LEAD—IN CABLE SHALL BE USED FOR THE PEDESTRIAN PUSHBUTTONS. GROUND THE SHIELD ONLY AT THE CABINET.

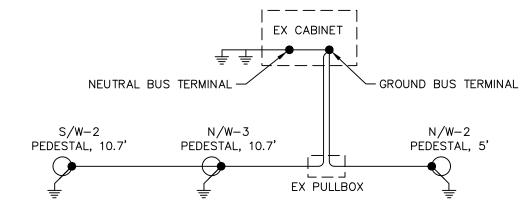
TIMING CHART

DIRECTION	NB	SB	-	EB	SB	NB	-	WB
MOVEMENT	LT	ALL	-	ALL	LT	ALL	-	8
PHASE	1	2	-	4	5	6	-	8
MIN GREEN	7	29	-	10	8	35	-	10
WALK	0	7	-	7	0	7	-	7
PED CLEAR	0	15	-	25	0	28	-	21
PASSAGE 1	3.7	1	-	3.7	3.7	1	-	3.7
PASSAGE 2	-	-	-	-	-	-	-	-
YELLOW	3.9	4.8	-	4.1	3.9	4.8	-	4.1
ALL RED	3	1.1	-	1.5	2.3	1.1	-	1.5
MAX 1	20	45	-	25	40	45	-	25
MAX 2	20	60	-	25	40	60	-	25
MAX 3	20	30	-	25	40	30	-	25
PED RECALL	OFF	ON	-	OFF	OFF	ON	-	OFF
VEH RECALL	OFF	MAX	-	OFF	OFF	MAX	-	OFF
MEMORY	OFF	ON	-	OFF	OFF	ON	-	OFF
LOOP TIMER	D = 3	-	-	EBRT D = 12	D = 3	-	-	WBLT D = 2
								WBRT D = 12

				PC	LE FABRIC	CATION DATA	FIELD ORIENTATION			
SUPPORT	POLE COLOR	DESIGN NO.	POLE HEIGHT	ANCHOR BOLT	PED.	PED.	HANDHOLE	INIDEA TIVIE	ANCHOR BOLT	FOUNDATION
				REF. LINE	SIGNALS	PUSHBUTTON	HANDHOLE	INDEX LINE	REF. LINE	ELEV.
EX N/W-2 (RELOCATED)	EX	PEDESTAL	5'	90	N/A	180	0	299	209	906.12
N/W-3	UNCOATED	PEDESTAL	10.7'	90	179	180	0	87	176	906.68
S/W-2	UNCOATED	PEDESTAL	10.7'	90	180	180	0	268	358	906.49

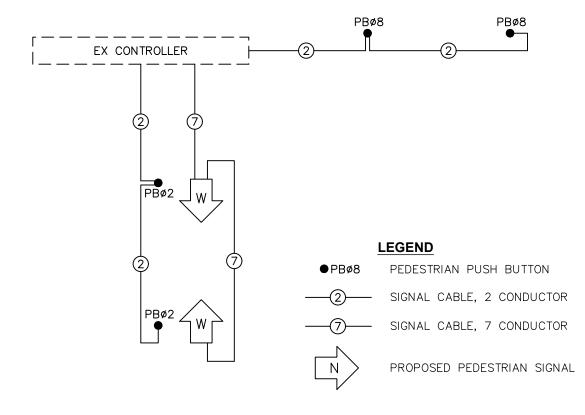


TYPICAL STRAIN POLE AND PEDESTAL
ORIENTATION DETAIL

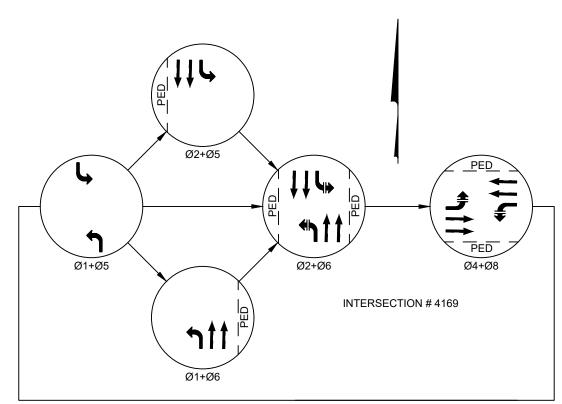




GROUNDING AND BONDING DIAGRAM



WIRING DIAGRAM



PHASING DIAGRA

			ESTIMATE OF QUANTITIES
625	80	LF	Conduit, 2", 725.051
625	160	LF	Conduit, 2", 725.051, Bored, As Per Plan
625	40	LF	Trench, As Per Plan
625	178	LF	No. 4 AWG 600 Volt Distribution Cable, As Per Plan
632	173	LF	Signal Cable, 7-Conductor, No. 14 AWG
632	450	LF	Signal Cable, 2-Conductor, No. 14 AWG
632	135	LF	Delashing and Relashing of Cable
632	2	Each	Pedestrian Pushbutton, As Per Plan
632	2	Each	Pedestrian Signal Head, As Per Plan
632	2	Each	Pedestal Support, 10.7', Transformer Base
632	2	Each	Pedestal Foundation
632	2	Each	Covering of Pedestrian Signal Head
632	2	Each	Covering of Pedestrian Pushbutton

12/1

XXXX-E

