UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND BASED ON EXISTING UTILITY

SITE DATA:

OEPA NPDES GENERAL PERMIT #: OHC000004

OWNER/DEVELOPER: CARMEN MICHAEL VILLOPOTO

220 LAKE MANOR RD. CHAPEL HILL, NC 27516

CARMEN VILLOPOTO (ONSITE CONTACT)

PLAN DESIGNER:

990 WEST THIRD AVE. - SUITE 200

COLUMBUS, OH 43212

EMAIL: BLUNDGREN@OSBORN-ENG.COM

274-012136-00 7679 DUBLIN PLAIN CITY ROAD ADDRESS

DUBLIN, OHIO 43016

PID NO: 274-001453-00

7685 DUBLIN PLAIN CITY ROAD ADDRESS: DUBLIN, OHIO 43016

DEVELOPMENT URBAN AIR - RECREATION CENTER

SITE GROUND COVER: OPEN FIELD

EXISTING STORM INLET

COMMERCIAL, INDUSTRIAL, RESIDENTIAL. FARM LAND ADJACENT AREAS:

ZONING INFORMATION:

ZONING DISTRICT ID-2: RESEARCH FLEX DISTRICT 36-11

BUILDING HEIGHT PHASE 1 BUILDING = 34 PHASE 2 BUILDING = 34

PHASE 1 BUILDING = 20.000 SF GROSS BUILDING AREA: PHASE 2 BUILDING = 20,000 SF

FRONT BUILDING SETBACK: SIDE BUILDING SETBACK REAR BUILDING SETBACK FRONT PAVEMENT SETBACK SIDE PAVEMENT SETBACK REAR PAVEMENT SETBACK:

ZONING CALCULATIONS:

OFFSITE PARKING CALCULATIONS
REQUIRED: PHASE 1: 20,000 SF * (1 SPACE / 250 SF) = 80 SPACES PHASE 2: 20,000 SF * (1 SPACE / 250 SF) = 80 SPACES

PROPOSED:

BICYCLE PARKING CALCULATIONS
 REQUIRED: PHASE 1 & PHASE 2:

REQUIRED PARKING * (1 BIKE / 15 SPACES) * (1 RACK / 2 BIKES)

= 80 SPACES * (1 BIKE / 15 SPACES) * (1 RACK / 2 BIKES)

= 3 RACKS PHASE 1: 6 RACKS PROPOSED:

PHASE 2: PROVIDED IN PHASE 1

3. OFF-STREET LOADING SPACE CALCULATIONS • REQUIRED:

1 SPACE PER 10.000-100.000 GROSS FLOOR AREA

PHASE 1 BUILDING 20,000 SQFT = 1 LOADING SPACE PHASE 2 BUILDING 20,000 SQFT = 1 LOADING SPACE

PHASE 1: 1 LOADING SPACE PHASE 2: 1 LOADING SPACE

4. MINIMUM LOT SIZE

• REQUIRED:

• EXISTING: 2 ACRES 4.888 ACRES

PROPOSED: PROPERTY SUBDIVIDED

EAST PROPERTY (PHASE 1) = 2.888 AC. WEST PROPERTY (PHASE 2) = 2.000 AC.

5. MAXIMUM LOT COVERAGE

• REQUIRED: 75% MAX

• PROPOSED: PROPOERTY SUBDIVIDED

EAST PROPERTY (PHASE 1) = 41.9%

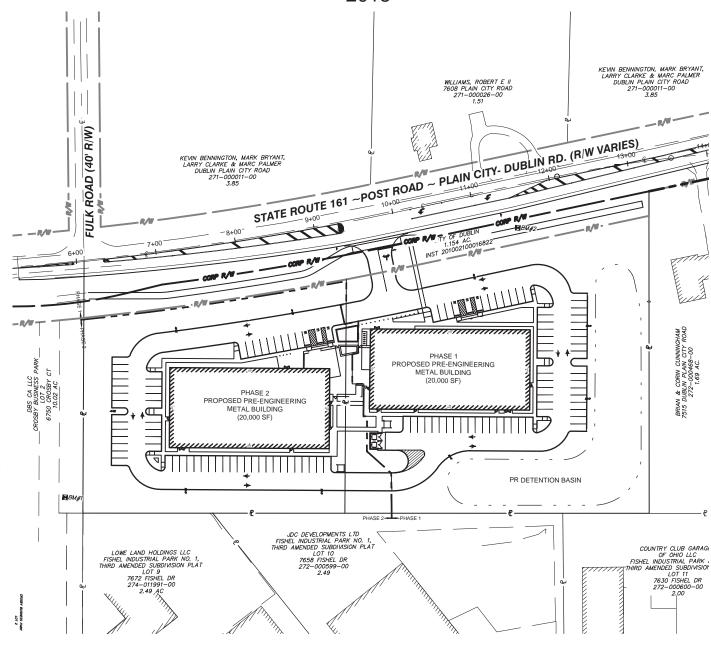
STANDARD DRAWINGS:

THE STANDARD DRAWINGS LISTED ON THIS PLAN SHALL BE CONSIDERED A PART THEREOF

CITY OF DUBLIN (2017 I
RD-07
RD-11
ST-01
ST-05

URBAN AIR ADVENTURE PARK

INDOOR RECREATION CENTER 7679-7685 PLAIN CITY-DUBLIN RD. (SR161) DUBLIN, OHIO 43064 2018

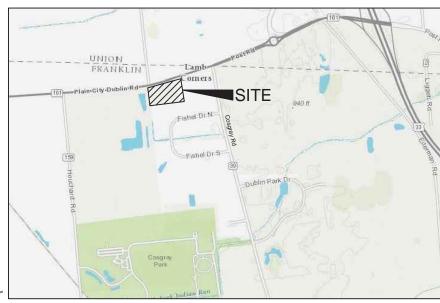




GRAPHIC SCALE

(IN FEET

UNDERGROUND UTILITIES 2 WORKING DAYS BEFORE YOU DIG CALL 800-362-2764 (TOLL FREE)
OHIO UTILITIES
PROTECTION SERVICE
NON-MEMBER
MUST BE CALLED DIRECTLY 1 inch = 60ft.



VICINITY MAP



BENCHMARK:

SOURCE BENCHMARK ~ ELEVATION OBTAINED USING TRIMBLE RTK GPS EQUIPMENT AND OHIO DEPARTMENT OF TRANSPORTATION CORS/VRS NETWORK, NAVD 1988

BENCHMARK #1 ~ TOP OF CASTING ON AEP MANHOLE (ON LETTER "O" IN WORD "VOLTAGE" ON LID), ALONG THE SOUTH SIDE OF S.R. 161, 164' WEST OF THE EAST N = 768064.39 E=1774349.85 ELEV=942.56

BENCHMARK #2 ~ TOP OF CASTING ON SANITARY MANHOLE NEAR THE SOUTHWEST

SUPPLEMENTAL PLANS

DETAIL SHEET

WATER SERVICE PLANS

FLOOD DESIGNATION

ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP #39049C0127K, DATED JUNE 17, 2008 FOR COMMUNITY NUMBER 390167, THIS PROPERTY IS IN ZONE X. AREAS DETERMINED TO BE OUTSIDE 500 YEAR

INDEX OF SHEETS

GENERAL NOTES EXISTING CONDITIONS/DEMOLITION PLAN

OVERALL SITE LAYOUT PLAN SITE LAYOUT PLAN PHASE 1

SITE LAYOUT PLAN PHASE 2

UTILITY PLAN PHASE 1 UTILITY PLAN PHASE 2

SANITARY SEWER PROFILE

STORM & GRADING PLAN PHASE 1 STORM & GRADING PLAN PHASE 2 OFF-SITE STORM PLAN

DETAILED GRADING PLAN PHASE

DETAILED GRADING PLAN PHASE : STORM SEWER PROFILES

STORM SEWER PROFILES

C5.6 C5.7 C6.0 STORM SEWER PROFILES DRIVEWAY PLAN & PROFILE

EROSION CONTROL PLAN **EROSION CONTROL NOTES & DETAILS**

SITE DETAILS C8.0

STORMWATER SEWER DETAILS STORMWATER SEWER DETAILS

THE CITY OF DUBLIN SIGNATURES ON THIS PLAN SIGNIFIES ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND LOCATION OF THE PROPOSED IMPROVEMENTS. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHO PREPARED AND

CITY OF DUBLIN

CITY ENGINEER, CITY OF DUBLIN, OHIO

■ p 614 764 0407



441 Wolf Ledges Road - Suite 300 | Akron, OH 443

7679-7685 PLAIN CITY-DUBLIN ROAD | DUBLIN, OH 43064

AIR RBAN

PROJECT NUMBER: 2016.223

23 MARCH 2018

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B Q

TITLE SHEET

DIRECTOR OF LAND USE & LONG RANGE PLANNING, CITY OF DUBLIN, OHIO

- 1 CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS CURRENT EDITIONS AND ANY CITY OF COLUMBUS AND OHIO DEPART MENT OF TRANSPORTATION COINS FROM MATERIAL SPECIFICATIONS, CONTROLLED THOSE, AND AND SEPERATER REFERRED TO AS STANDARD SPECIFICATIONS, SHALL GOVERN ALL CONSTRUCTION THEM UNLESS OTHERWIS NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
- 2. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
- THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS
 TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.
- 4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE THE CONTRACTOR SHALL BE SCHELLER RESPONSIBLE FOR CONTENTS WITH ALL FEDERALS, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED
- 6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE
- 7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
- 8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER
- NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
- 10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
- TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS. THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.
- 13 ALL SIGNS LANDSCAPING STRUCTURES OR OTHER APPLIETENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE
- 14. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH DISPECTION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.
- 16. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE III ACCORDING TO ITEM 636. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.
- 17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION

SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

CONSTRUCTION INSPECTION DIVISION CITY OF COLUMBUS

SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

DIVISION OF ENGINEERING CITY OF DUBLIN

5800 SHIER RINGS ROAD DUBLIN, OHIO 43016

- 18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS, TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVE TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.
- 19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TIRUNK. TREES 6 INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.
- 20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF FINEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAYMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE III) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 636 OF THE STANDARD SPECIFICATIONS.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY
- 22. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER PAYEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAYEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.
- 23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.
- 24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN
- 25. ALL INLETS SHALL BE CHANNELIZED

GERMINATION RATE: 85%

- 26. PARK AREAS SHALL BE FINE-GRADED AND SEEDED WITH THE FOLLOWING MIXTURE IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS) IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
- APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.

 27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS
- 28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT

COLUMBIA GAS AT&T

- 2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764) PRODUCER'S LINDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486) AND TO OWNERS OF LINDERGROUND LITHLITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS REFORE START OF
- THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FULTIES SHOWN ON THE APPROVED CONSTRUCT DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT

- 4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE ROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL
- PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS

TRAFFIC CONTROL

- TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION
- 2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. WATER LINE UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER
- IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER ALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY
- 4. STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
- ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDED A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION

FROSION AND SEDIMENT CONTROL

- 1 THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA. THE NOI. A SEDIMENT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
- 2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.
- 3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS. SILT FILTER FENCE. AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER, HAY OR STRAW BALES ARE NOT PERMITTED.
- 4 THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES
- DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT

BLASTING (IF PERMITTED)

THE CONTRACTOR MUST OBTAIN A BLASTING PERMIT FROM WASHINGTON TOWNSHIP FIRE DEPARTMENT PRIOR TO BLASTING FOR ROCK EXCAVATION. THE CONTRACTOR SHALL SUBMIT BLASTING REPORTS UPON COMPLETION OF BLASTING TO THE CITY ENGINEER, THE OWNER, AND THE OWNER'S ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS-BUILT" CONSTRUCTION DRAWINGS.

SANITARY SEWERS

- 1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL AND UPON RECEIVING A SATISFACTORY ETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.
- 2 SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES REGULATIONS STANDARDS AND SANITARY SERVING COLLECTION STATEMS STATEMS TO THE STATEMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.
- THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 15 INCHES AND SMALLER SHALL BE REINFORCED CONCRETE PIPE ASTM C76 CLASS 3, OR PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6-INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS
- 4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS GREATER THAN 15 INCHES SHALL BE REINFORCED CONCRETE PIPE ASTM C76 WITH CLASS DESIGNATION SPECIFIED IN THE APPROVED CONSTRUCTION DRAWINGS
- 5. ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR-N-TEE OR KOR-N-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.
- GRANLII AR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED NG TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER
- ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONFORTE OR AS APPROVED BY THE CITY PENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.
- ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS
- TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.
- 10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS. ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE
- 11. FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.
- AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
- 13. VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE
- 14. ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY

PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.

- 15. ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS. O THE GREATEST EXTENT PRACTICABLE, WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER LITHLITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATER
- 16. SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.
- 17. WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.
- 18. THE CONTRACTOR SHALL FURNISH AND PLACE. AS DIRECTED, APPROVED MYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL MYE LOCATIONS ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED, WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.
- 19 EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES COSTS FOR PLIMPING AND RYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S LINIT PRICE BID FOR THE RELATED ITEMS
- 20. THE CONTRACTOR SHALL FURNISH ALL MATERIAL FOLLOMENT AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE TUPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:

- A. RUBBER SLEEVE WITH STAINLESS STEEL BANDING
 - KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLITITION CONTROL SYSTEMS INC. LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION
 - OR EQUAL AS APPROVED BY THE CITY ENGINEER
- PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
 DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
- LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION
- 4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.
- THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

- 1. ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF
- 2. ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 53. PUBLIC WATER PIPE 12 INCHES IN DIAMETER OR LARGER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONGRETE PIPE. PRIVATI WATER PIPE SHALL MEET THE APPROVAL OF THE CONSTRUCTION DRAWINGS.
- 3. ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS WILL BE APPROVED FOR USE
- 4. PUBLIC WATER LINES SHALL BE DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER, REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR
- 5. ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, WHEN WATER LINES ARE READY FOR DISINFECTION. THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED. TO THE CITY OF COLUMBUS, DIVISION OF WATER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER LINES CONSTRUCTION PER THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 101.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS
- 6. THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.
- NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CIT ENGINEER A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBLIS DIVISION OF WATER
- 8. BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES, 8. THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645-7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING WATER LINES.
- 9. ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.
- 10. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.
- 11. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE
- 12. WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THRO
- 13. WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING
- 14. CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT-OF-WAY AND SET AT FINISHED GRADE.
- 15. IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW FINISHED GRADE. AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE ELEVATION.
- 16. ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE, WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUNG RESTRICTIONS BY A MINIMUM OF 18 INCHES.
- 17. TWO ¼ INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

STORM SEWER

- 1. ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS
- 2. WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B. CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II. UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING
- 3. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER
- 4. ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B. CLASS IV FOR PIPE DIAMETERS 12 ON THE APPROVED CONSTRUCTION DRAWINGS.
- 5. HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDWALLS SURFACES.
- STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INDLUCE ENGRAVED LETTERING; "DUMP NO WASTE: DRAINS TO RIVER
- 7. STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER

- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONST OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLE THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
- 2. BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS

- THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED LINDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRAN USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT, PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
- REFORE THE FINAL ESTIMATE IS DAID. THE CONTRACTOR SHALL SLIRMIT A LETTER FROM THE CITY OF COLLIMBUS DIVISION OF WATER TO THE CITY THE USE OF THE FIRE HYDRANTS.

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23 MARCH 2018

GENERAL NOTES

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SHEET NUMBER:

CURRENT EDITION OF DUBLIN NOTES ARE LISTED. NOT APPLICABLE HAS BEE ADDED TO NOTES THAT DO NOT APPLY TO THIS PROJECT

GENERAL NOTES:



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EXISTING CONDITIONS/ DEMOLITION PLAN

SHEET NUMBER:

SITE NOTES

(IN FEET)

1 inch = 30ft.

1. DIMENSIONS ARE FROM FACE OF CURB, UNLESS

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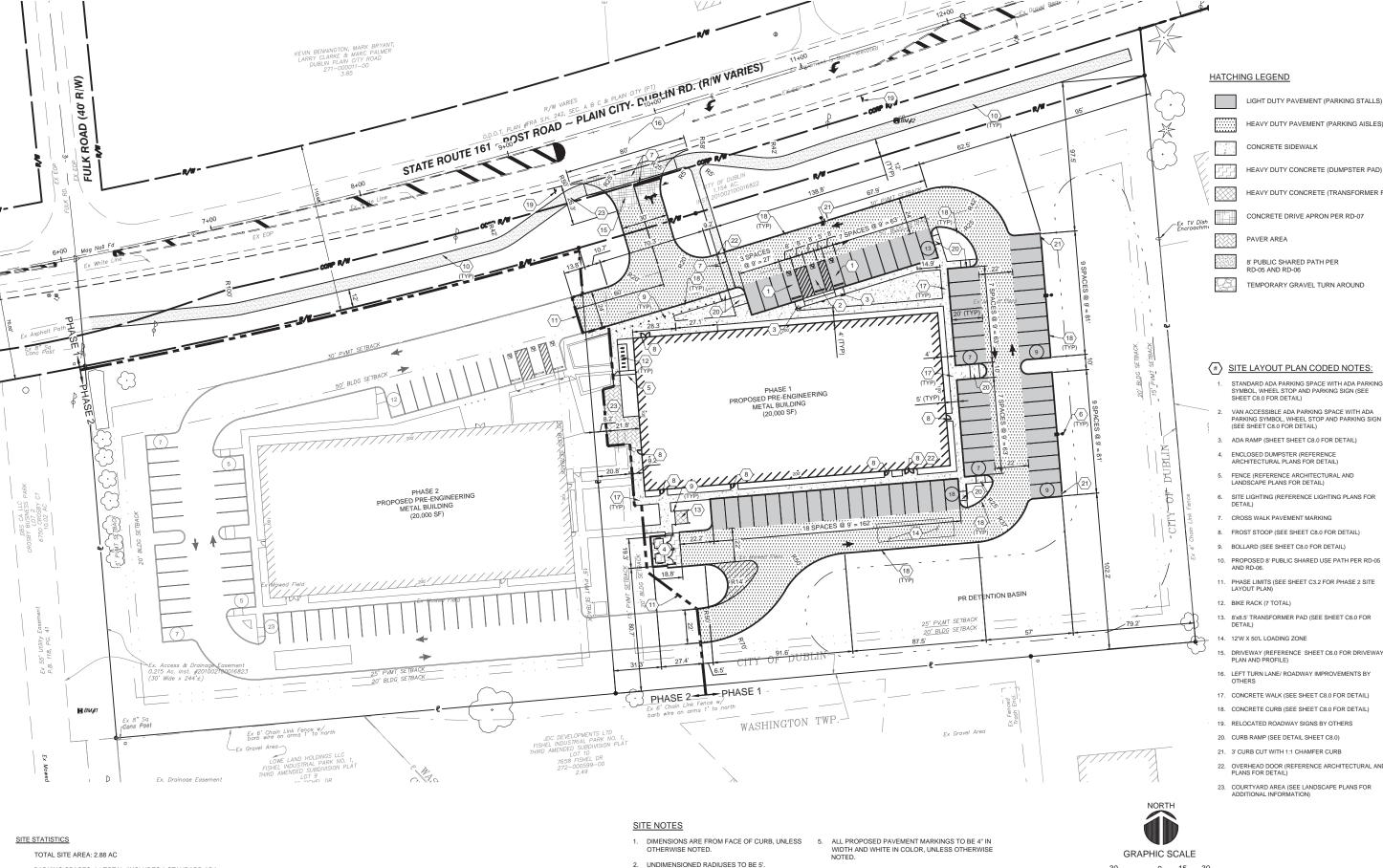
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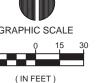
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SITE LAYOUT PLAN SHEET NUMBER:



PARKING SPACES: 91 TOTAL (INCLUDES 2 STANDARD ADA SPACES AND 1 VAN ACCESSIBLE ADA SPACES)

- 3. EXISTING PAVEMENT GRADES TO MATCH (FLUSH) WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT
- 4. PAVEMENT JOINT WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT TO BE SEALED WITH HOT APPLIED JOINT SEALER.
- 6. REFERENCE ARCHITECTURAL PLANS FOR BUILDING IMPROVEMENTS AND DUMPSTER/TRANSFORMER ENCLOSURE DETAILS.
- REFERENCE ELECTRICAL PLANS FOR SITE LIGHTING
- DETAILS.
- 8. REFERENCE SURVEY LEGEND ON SHEET C2.0. 9. REFERENCE SITE LEGEND ON SHEET C3.0



1 inch = 30ft.



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HEAVY DUTY CONCRETE (TRANSFORMER P

CONCRETE DRIVE APRON PER RD-07

LIGHT DUTY PAVEMENT (PARKING STALLS)

HEAVY DUTY PAVEMENT (PARKING AISLES)

PAVER AREA

8' PUBLIC SHARED PATH PER RD-05 AND RD-06

CONCRETE SIDEWALK

TEMPORARY GRAVEL TURN AROUND

SITE LAYOUT PLAN CODED NOTES:

- 1. STANDARD ADA PARKING SPACE WITH ADA PARKING SYMBOL, WHEEL STOP AND PARKING SIGN (SEE SHEET C8.0 FOR DETAIL)
- VAN ACCESSIBLE ADA PARKING SPACE WITH ADA PARKING SYMBOL, WHEEL STOP AND PARKING SIGN (SEE SHEET C8.0 FOR DETAIL)
- 3. ADA RAMP (SHEET SHEET C8.0 FOR DETAIL)
- 4. ENCLOSED DUMPSTER (REFERENCE ARCHITECTURAL PLANS FOR DETAIL)
- FENCE (REFERENCE ARCHITECTURAL AND LANDSCAPE PLANS FOR DETAIL)
- 6. SITE LIGHTING (REFERENCE LIGHTING PLANS FOR
- CROSS WALK PAVEMENT MARKING
- 8. FROST STOOP (SEE SHEET C8.0 FOR DETAIL)
- 9. BOLLARD (SEE SHEET C8.0 FOR DETAIL)
- PROPOSED 8' PUBLIC SHARED USE PATH PER RD-05 AND RD-06.
- 11. PHASE LIMITS (SEE SHEET C3.2 FOR PHASE 2 SITE LAYOUT PLAN)
- 12. BIKE RACK (7 TOTAL)
- 13. 8'x8.5' TRANSFORMER PAD (SEE SHEET C8.0 FOR DETAIL)
- 12'W X 50'L LOADING ZONE
- DRIVEWAY (REFERENCE SHEET C6.0 FOR DRIVEWAY PLAN AND PROFILE)
- 16. LEFT TURN LANE/ ROADWAY IMPROVEMENTS BY OTHERS
- 17. CONCRETE WALK (SEE SHEET C8.0 FOR DETAIL)
- 18. CONCRETE CURB (SEE SHEET C8.0 FOR DETAIL)
- 19. RELOCATED ROADWAY SIGNS BY OTHERS
- 20. CURB RAMP (SEE DETAIL SHEET C8.0)
- 21. 3' CURB CUT WITH 1:1 CHAMFER CURB
- 22. OVERHEAD DOOR (REFERENCE ARCHITECTURAL AND PLANS FOR DETAIL)
- 23. COURTYARD AREA (SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION)

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SITE LAYOUT PLAN

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PHASE 2 SITE LAYOUT PLAN SHEET NUMBER:

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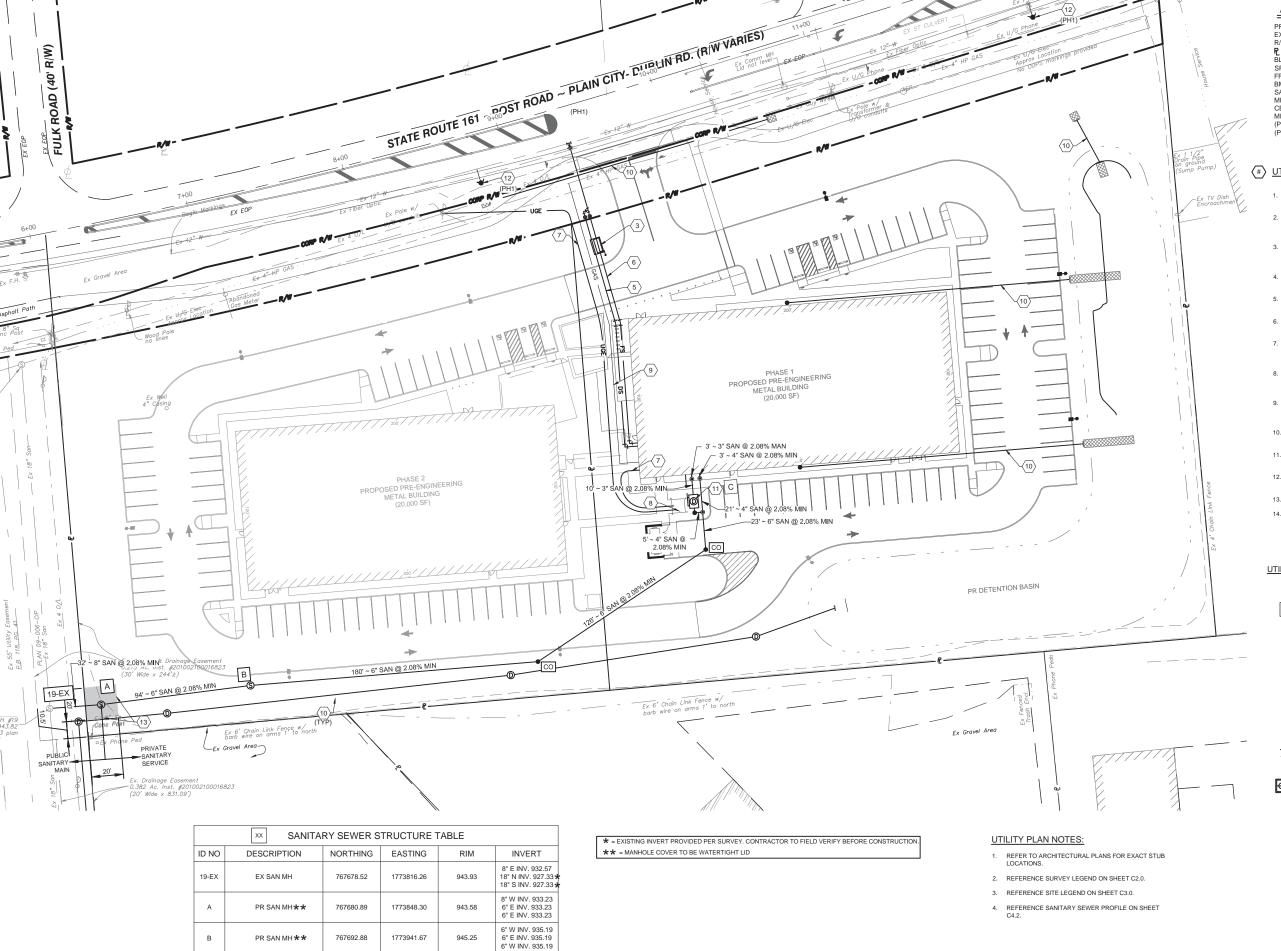
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SITE STATISTICS

TOTAL SITE AREA: 2.00 AC

SPACES AND 1 VAN ACCESSIBLE ADA SPACES)



3" N INV. 942.40 3" S INV. 942.24

PR GREASE INTERCEPTOR (REFER TO PLUMBING**

PLAN FOR DETAIL)

767807.95

1774218.66

945.83

ABBREVIATION LEGEND

PROPOSED PROPERTY LINE BLDG SF FFE BM SAN MH CB MIN (PH1) BUILDING SQUARE FOOT FINISH FLOOR ELEVATION BENCHMARK SANITARY MANHOLE

CATCH BASIN MINIMUM PHASE 1 (PH2) PHASE 2

UTILITY PLAN CODED NOTES:

- METER VAULT FOR DOMESTIC SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- ABOVE GROUND HOT BOX WITH DOMESTIC SERVICE CHECK BACKFLOW PREVENTER. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- ABOVE GROUND HOT BOX WITH FIRE SERVICE CHECK BACKFLOW PREVENTER. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- PROPOSED 6" FIRE SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- 5. PROPOSED 3" DOMESTIC SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- PROPOSED 6" WATER SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- 7. PROPOSED ELECTRIC SERVICE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY BEFORE CONSTRUCTION
- ELECTRICAL TRANSFORMER PAD. CONTRACTOR TO COORDINATE LOCATION WITH ELECTRICAL ENGINEER AND POWER PROVIDER BEFORE CONSTRUCTION
- 9. PROPOSED GAS SERVICE, CONTRACTOR TO COORDINATE WITH UTILITY COMPANY BEFORE CONSTRUCTION
- 10. REFERENCE SHEET C5.0 FOR STORM SEWER INFORMATION
- 11. PROPOSED 1000 GALLON GREASE INTERCEPTOR. SEE PLUMBING PLAN FOR DETAIL AND STUB IN LOCATION
- 12. EXISTING FIRE HYDRANTS TO BE RELOCATED OUT OF PROPOSED ROADWAY BY OTHERS
- 13. PROPOSED PUBLIC SANITARY EASEMENT.
- 14. PROPOSED FDC. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.

UTILITY LEGEND

S SANITARY MANHOLE

GREASE INTERCEPTOR

EXISTING SANITARY MANHOLE

STORM MANHOLE

STORM CATCH BASIN

STORM HEADWALL/ENDWALL

CLEANOUT

- EXISTING STORM MANHOLE
- WATERMAIN TAPPING SLEEVE & VALVE
- ⊗ WATER SERVICE VALVE
- **1** 写 WATER SERVICE BEND
- WATER SERVICE TEE
- WATER SERVICE VAULT WITH METER
- ABOVE GROUND HOT BOX WITH CHECK BACKFLOW PREVENTER
- **o** FIRE HYDRANT
- 20' x 20' SANITARY EASEMENT



GRAPHIC SCALE



1 inch = 30 ft.

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UTILITY PLAN PHASE 1

SHEET NUMBER

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3" N INV. 942.40 3" S INV. 942.24

PR GREASE INTERCEPTOR (REFER TO PLUMBING**

PLAN FOR DETAIL)

767807.95

1774218.66

945.83

ABBREVIATION LEGEND

PROPOSED EXISTING RIGHT OF WAY PROPERTY LINE BLDG SF FFE BM SAN MH CB MIN (PH1) BUILDING SQUARE FOOT FINISH FLOOR ELEVATION BENCHMARK SANITARY MANHOLE CATCH BASIN MINIMUM PHASE 1

PHASE 2

- METER VAULT FOR DOMESTIC SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- ABOVE GROUND HOT BOX WITH DOMESTIC SERVICE CHECK BACKFLOW PREVENTER. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- ABOVE GROUND HOT BOX WITH FIRE SERVICE CHECK BACKFLOW PREVENTER. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- PROPOSED 6" FIRE SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- 5. PROPOSED 3" DOMESTIC SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- PROPOSED 6" WATER SERVICE. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.
- 7. PROPOSED ELECTRIC SERVICE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY BEFORE CONSTRUCTION
- ELECTRICAL TRANSFORMER PAD. CONTRACTOR TO COORDINATE LOCATION WITH ELECTRICAL ENGINEER AND POWER PROVIDER BEFORE CONSTRUCTION
- 9. PROPOSED GAS SERVICE, CONTRACTOR TO COORDINATE WITH UTILITY COMPANY BEFORE CONSTRUCTION
- 10. REFERENCE SHEET C5.0 FOR STORM SEWER INFORMATION
- 11. PROPOSED 1000 GALLON GREASE INTERCEPTOR. SEE PLUMBING PLAN FOR DETAIL AND STUB IN LOCATION
- 12. EXISTING FIRE HYDRANTS TO BE RELOCATED OUT OF PROPOSED ROADWAY BY OTHERS
- 13. PROPOSED PUBLIC SANITARY EASEMENT.
- 14. PROPOSED FDC. REFER TO WATER SERVICE PLAN FOR PHASING & DETAILS.

UTILITY LEGEND

S SANITARY MANHOLE

GREASE INTERCEPTOR

EXISTING SANITARY MANHOLE

STORM MANHOLE

STORM CATCH BASIN

STORM HEADWALL/ENDWALL

CLEANOUT

- EXISTING STORM MANHOLE
- WATERMAIN TAPPING SLEEVE & VALVE
- ⊗ WATER SERVICE VALVE
- **1** 写 WATER SERVICE BEND
- WATER SERVICE TEE
- WATER SERVICE VAULT WITH METER
- ABOVE GROUND HOT BOX WITH CHECK BACKFLOW PREVENTER

TIRE HYDRANT

20' x 20' SANITARY EASEMENT



GRAPHIC SCALE



1 inch = 30 ft.

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UTILITY PLAN

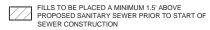
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SANITARY SEWER PROFILE NOTES

- REFERENCE GENERAL NOTES FOR SANITARY SEWER REQUIREMENTS.
- ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE SURROUNDING GROUND UNLESS OTHERWISE NOTED.

SANITARY SEWER PROFILE LEGEND

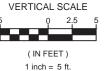


ITEM 911 - COMPACTED BACKFILL

ITEM 912 - COMPACTED GRANULAR BACKFILL

HORIZONTAL SCALE

(IN FEET) 1 inch = 30ft.





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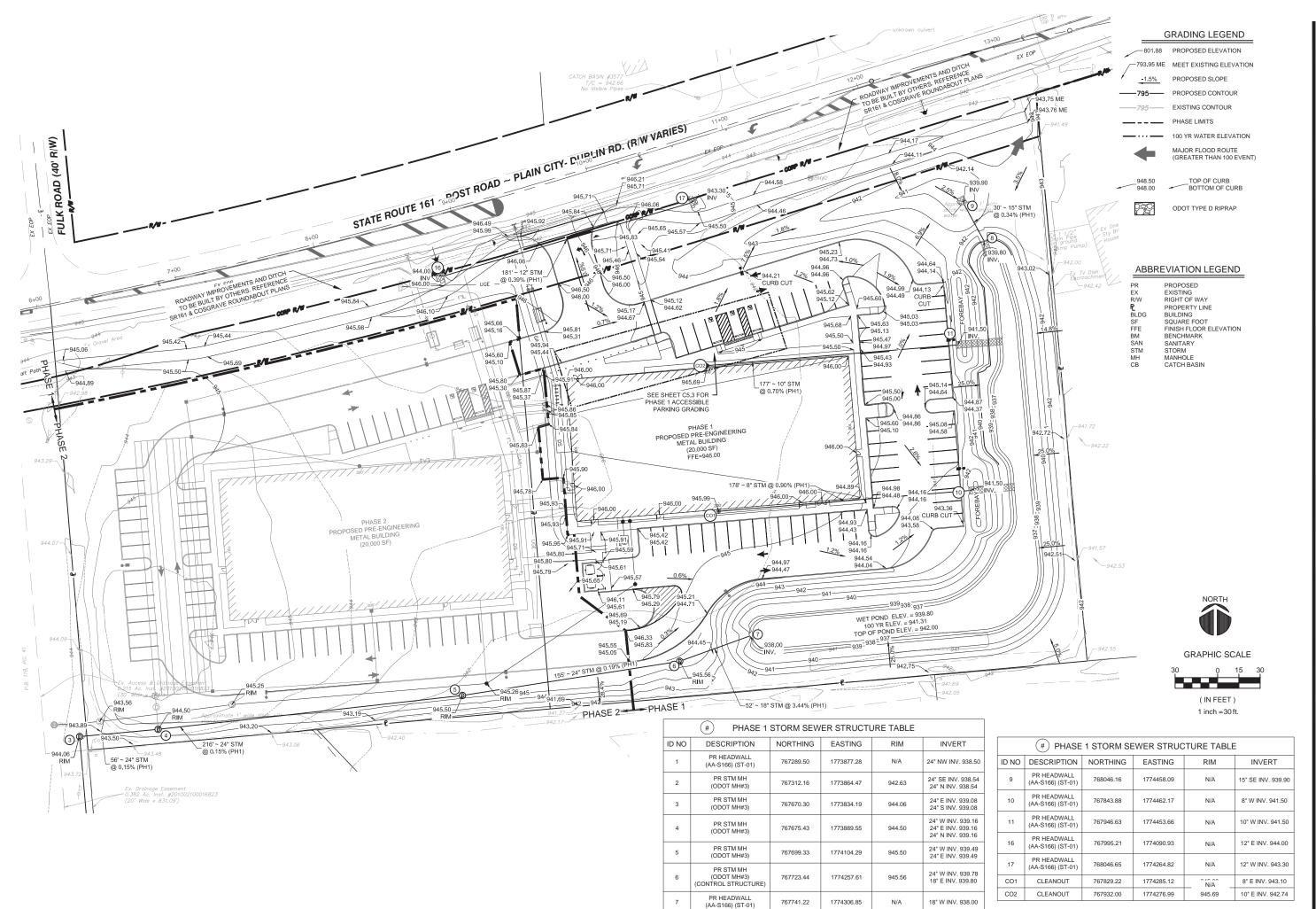
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SANITARY SEWER PROFILE

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C4.2



PR HEADWALL

15" NW INV. 939.80



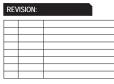
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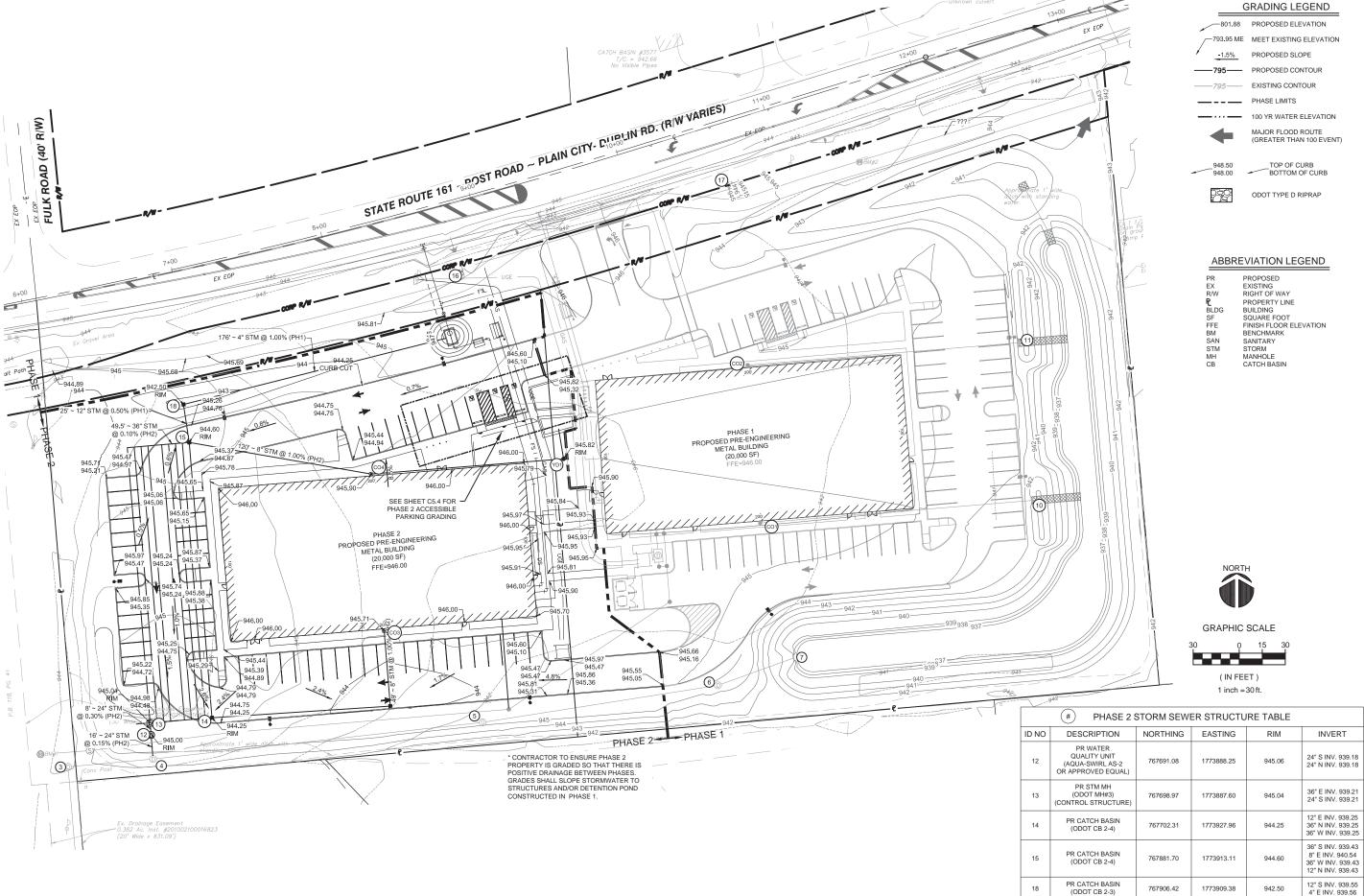
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SHEET NAME:

STORM & GRADING PLAN SHEET NUMBER:

C5.0



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NORTHING	EASTING	RIM	INVERT	
767691.08	1773888.25	945.06	24" S INV. 939.18 24" N INV. 939.18	
767698.97	1773887.60	945.04	36" E INV. 939.21 24" S INV. 939.21	
767702.31	1773927.96	944.25	12" E INV. 939.25 36" N INV. 939.25 36" W INV. 939.25	
767881.70	1773913.11	944.60	36" S INV. 939.43 8" E INV. 940.54 36" W INV. 939.43 12" N INV. 939.43	
767906.42	1773909.38	942.50	12" S INV. 939.55 4" E INV. 939.56	
767709.90	1774044.15	943.31	12" W INV. 940.18 8" N INV. 940.18	
767758.93	1774040.09	945.69	8" S INV. 940.67	
767861.07	1774031.63	945.90	8" W INV. 941.74 6" E INV. 941.74	

945.82

6" W INV. 943.00 6" N INV. 943.00

18

CO3

CO4

YD1

PR CATCH BASIN

CLEANOUT

CLEANOUT

PR YARD DRAIN

767870.98

1774157.03

STATUS:

AIR

URBAN

PROJECT NUMBER:

2016.223

23 MARCH 2018

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STORM & GRADING PLAN PHASE 2

SHEET NUMBER:

SCALE: 1" = 30'

GRADING LEGEND

—801.88 PROPOSED ELEVATION ←793.95 ME MEET EXISTING ELEVATION PROPOSED SLOPE

——795— EXISTING CONTOUR

— - - PHASE LIMITS TOP OF CURB

BOTTOM OF CURB

ODOT TYPE D RIPRAP

ABBREVIATION LEGEND

PROPOSED EXISTING RIGHT OF WAY RIGHT OF WAY
PROPERTY LINE
BUILDING
SQUARE FOOT
FINISH FLOOR ELEVATION
BENCHMARK
SANITARY
STORM
MANHOLE BLDG SF FFE BM SAN STM MH CB MANHOLE CATCH BASIN

GRAPHIC SCALE

NORTH



(IN FEET) 1 inch = 30 ft.



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STATUS:

PROJECT NUMBER:

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SHEET NAME:

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D-9

STORM PLAN



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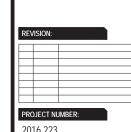
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GRADING LEGEND

801.88 PROPOSED ELEVATION 793.95 ME MEET EXISTING ELEVATION -1.5% PROPOSED SLOPE ----795---- PROPOSED CONTOUR

URBAN AIR

STATUS:



2016.223

GRAPHIC SCALE

(IN FEET) 1 inch = 10 ft.

23 MARCH 2018

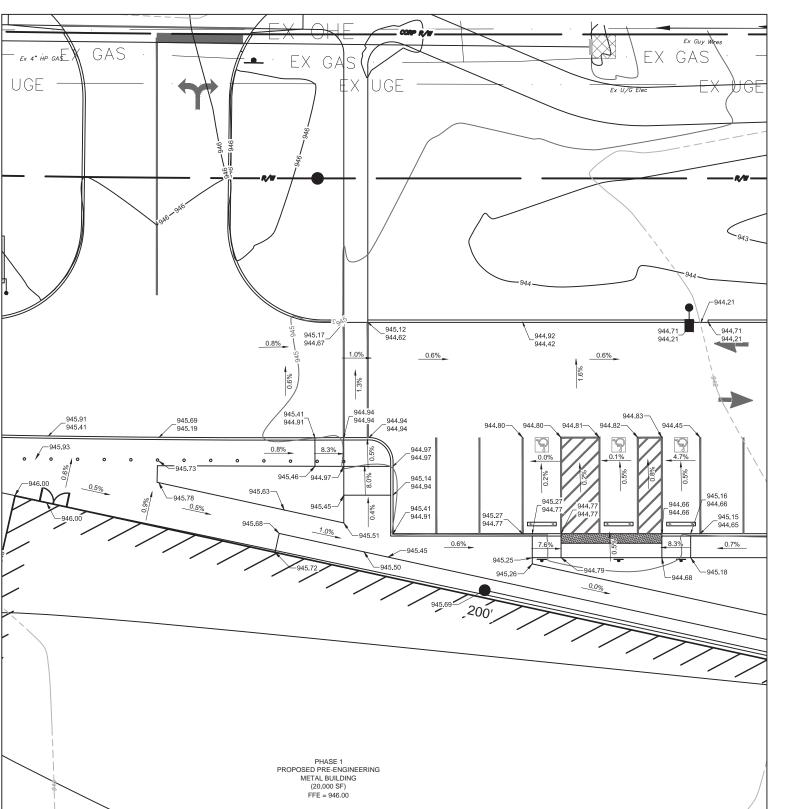
DETAILED GRADING PLAN PHASE 1

architects

D-9

SHEET NUMBER: C5.3

ACCESSIBLE PARKING & COURTYARD GRADING

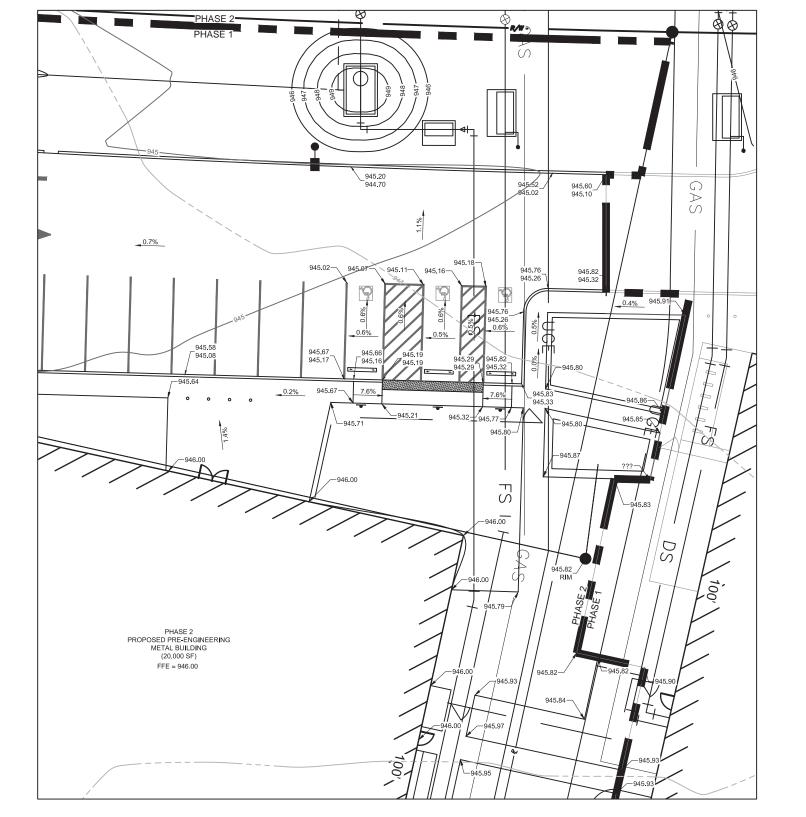


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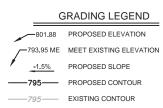
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PHASE 2 ACCESSIBLE PARKING & COURTYARD GRADING SCALE: 1" = 10'

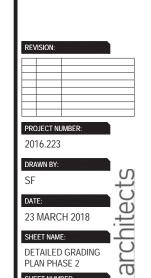


GRAPHIC SCALE

(IN FEET) 1 inch = 10 ft.



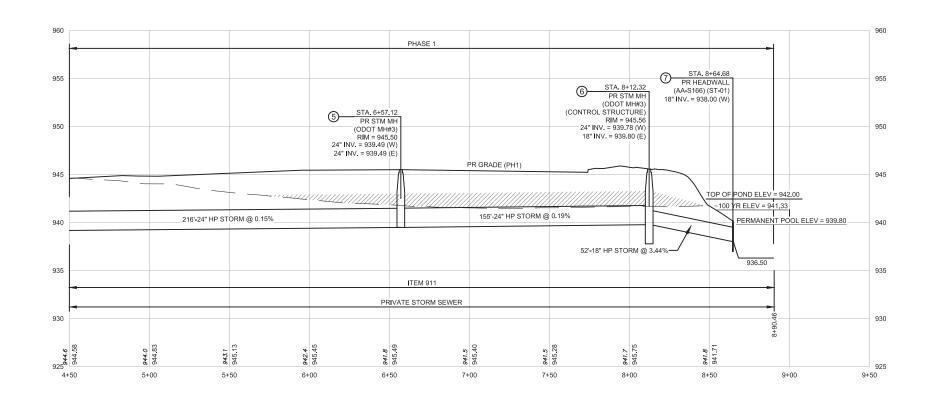
STATUS:



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DETAILED GRADING PLAN PHASE 2

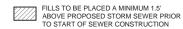
D-9



STORM SEWER PROFILE NOTES

- 1. ALL SEWERS SHALL BE HP STORM, HP SANITITE, OR RCP ONLY PER CITY OF DUBLIN REQUIREMENTS.
- 2. ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE SURROUNDING
 GROUND UNLESS OTHERWISE NOTED.

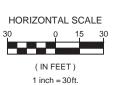
STORM SEWER PROFILE LEGEND

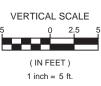




ITEM 911 - COMPACTED BACKFILL

ITEM 912 - COMPACTED GRANULAR BACKFILL







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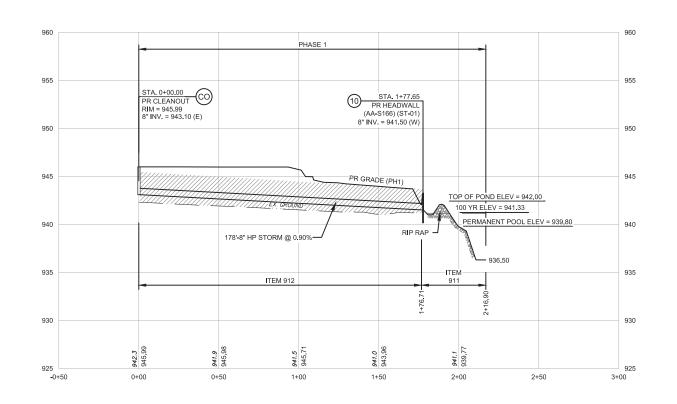
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STORM SEWER **PROFILES**

SHEET NUMBER: C5.5



STORM SEWER PROFILE NOTES

- ALL SEWERS SHALL BE HP STORM, HP SANITITE, OR RCP ONLY PER CITY OF DUBLIN REQUIREMENTS.
- ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE SURROUNDING GROUND UNLESS OTHERWISE NOTED.

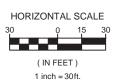
STORM SEWER PROFILE LEGEND

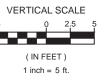
FILLS TO BE PLACED A MINIMUM 1.5'
ABOVE PROPOSED STORM SEWER PRIOR TO START OF SEWER CONSTRUCTION

UNDERGROUND DETENTION

ITEM 911 - COMPACTED BACKFILL

ITEM 912 - COMPACTED GRANULAR BACKFILL







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STORM SEWER

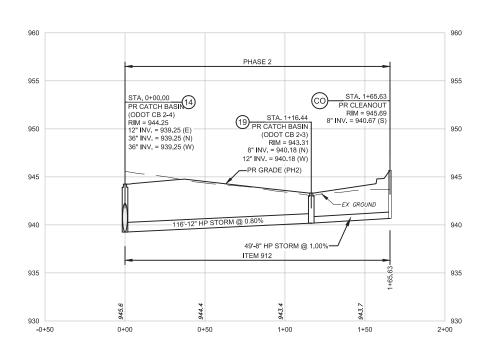
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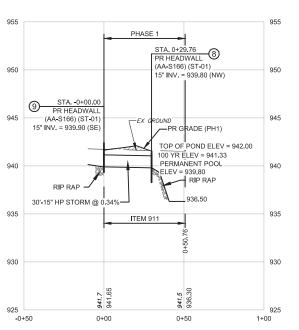
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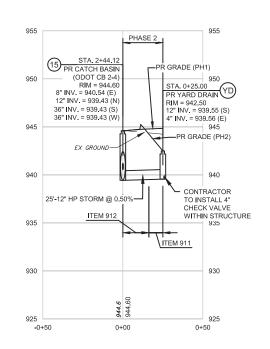
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PROFILES

SHEET NUMBER:







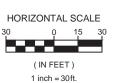
STORM SEWER PROFILE NOTES

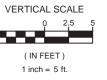
- ALL SEWERS SHALL BE HP STORM, HP SANITITE, OR RCP ONLY PER CITY OF DUBLIN REQUIREMENTS.
- ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE SURROUNDING GROUND UNLESS OTHERWISE NOTED.

STORM SEWER PROFILE LEGEND

FILLS TO BE PLACED A MINIMUM 1.5' ABOVE PROPOSED STORM SEWER PRIOR TO START OF SEWER CONSTRUCTION

ITEM 911 - COMPACTED BACKFILL ITEM 912 - COMPACTED GRANULAR BACKFILL





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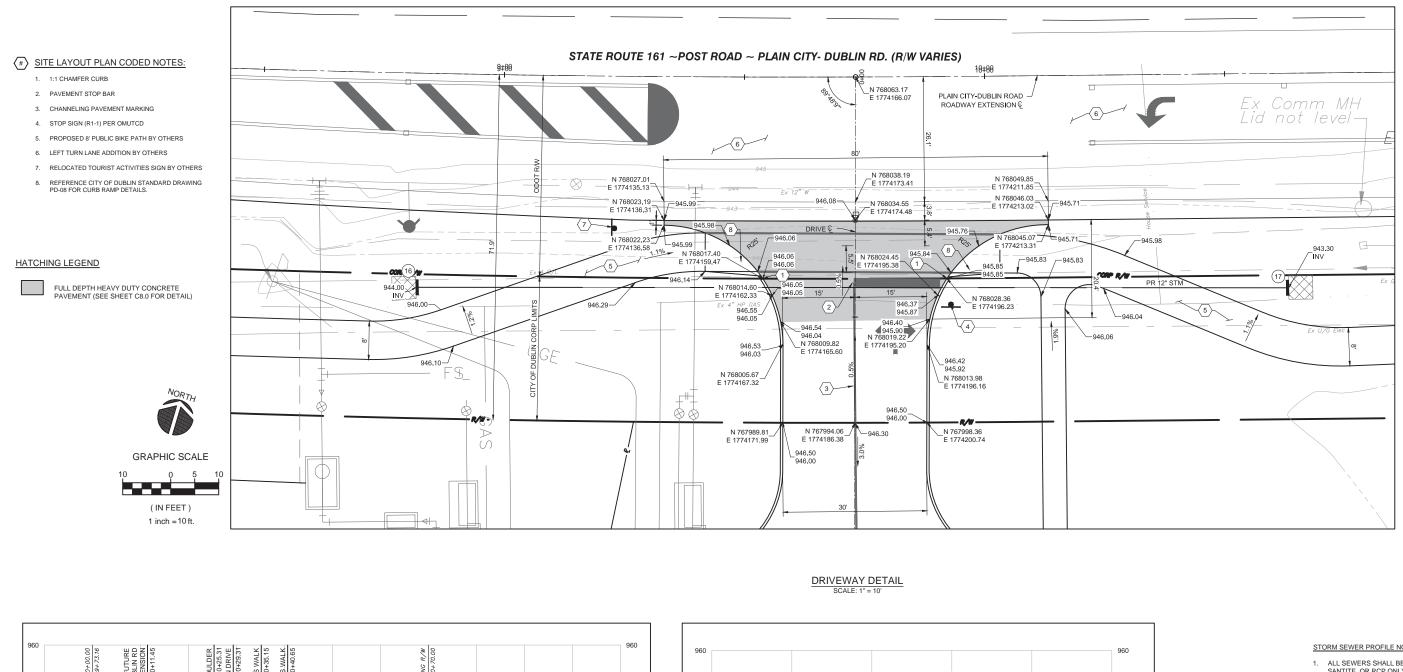
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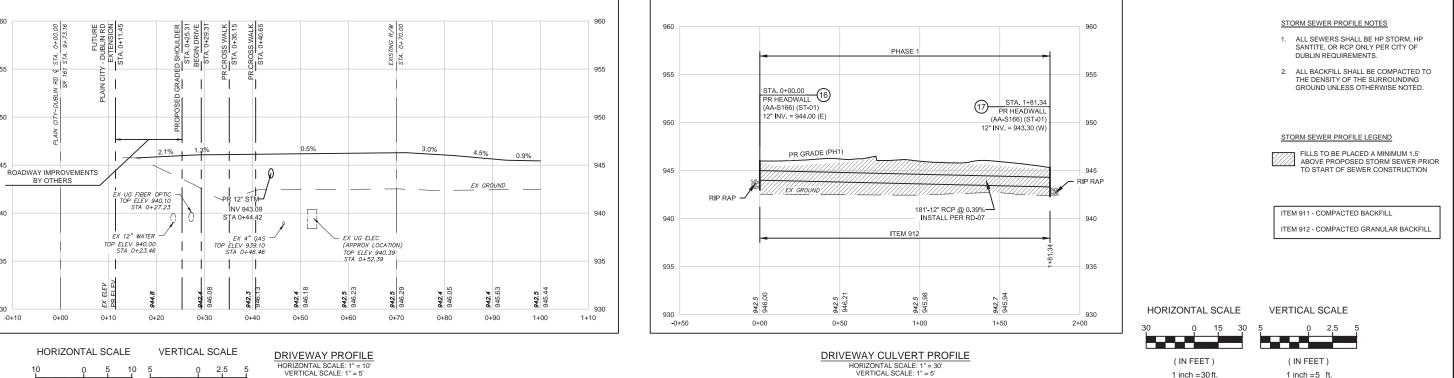
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PROFILES SHEET NUMBER:

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(IN FEET)

1 inch = 10 ft.

(IN FEET)

1 inch = 5 ft.

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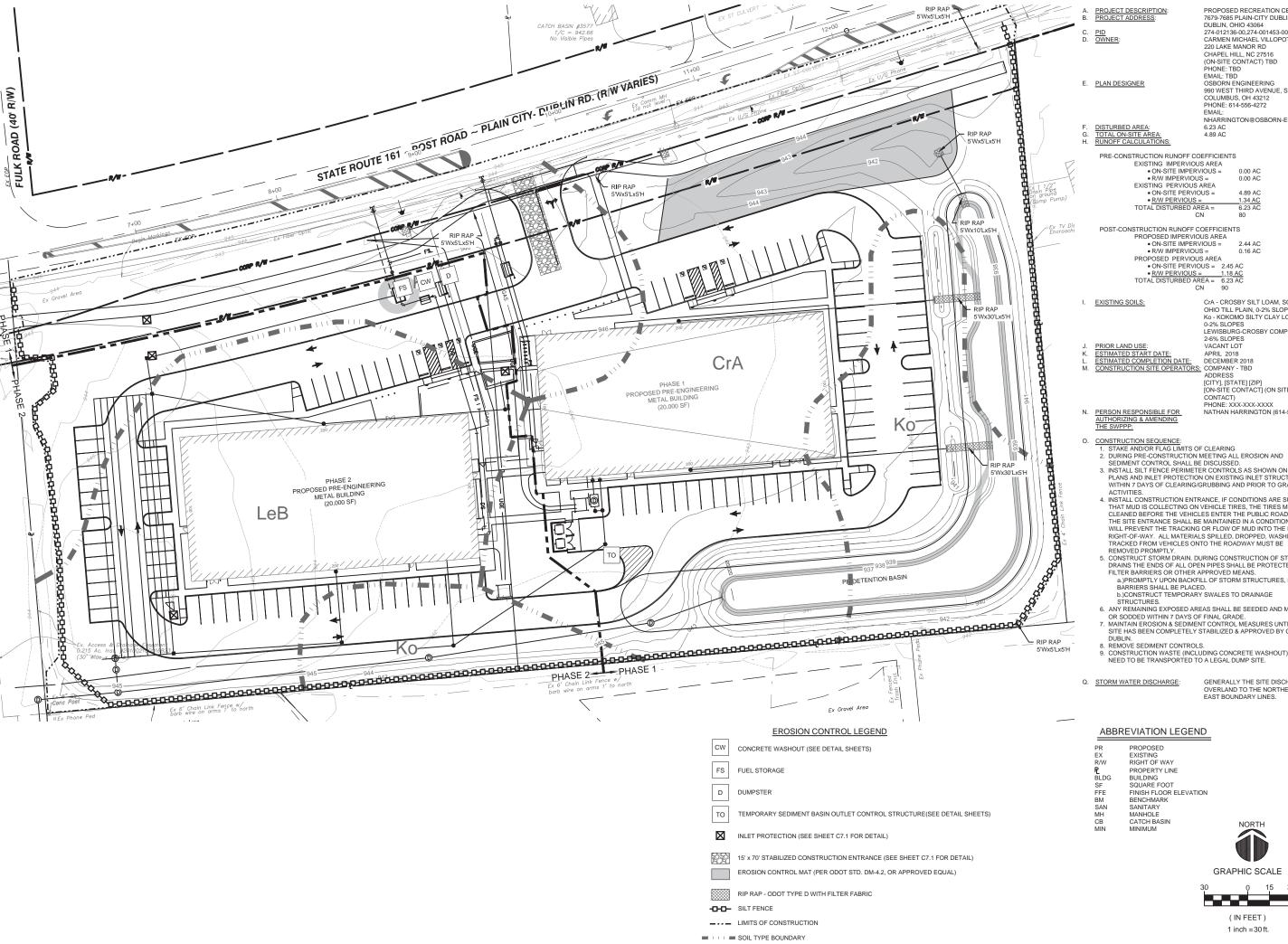
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DRIVEWAY PLAN AND PROFILE

C6.0

1 inch = 5 ft.

HORIZONTAL SCALE: 1" = 30 VERTICAL SCALE: 1" = 5'





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PROPOSED RECREATION CENTER 7679-7685 PLAIN-CITY DUBLIN ROAD

274-012136-00,274-001453-00

(ON-SITE CONTACT) TBD PHONE: TBD EMAIL: TBD OSBORN ENGINEERING

CARMEN MICHAEL VILLOPOTO 220 LAKE MANOR RD CHAPEL HILL, NC 27516

990 WEST THIRD AVENUE, SUITE 200 COLUMBUS, OH 43212 PHONE: 614-556-4272

NHARRINGTON@OSBORN-ENG.COM

0.00 AC 0.00 AC

4.89 AC

1.34 AC 6.23 AC

DUBLIN, OHIO 43064

PROPOSED IMPERVIOUS AREA ON-SITE IMPERVIOUS =

EMAIL:

4.89 AC

PROPOSED PERVIOUS AREA

 ON-SITE PERVIOUS = 2.45 AC
 R/W PERVIOUS = 1.18 AC
 TOTAL DISTURBED AREA = 6.23 AC CN

CrA - CROSBY SILT LOAM, SOUTHER OHIO TILL PLAIN, 0-2% SLOPES

Ko - KOKOMO SILTY CLAY LOAM, 0-2% SLOPES LEWISBURG-CROSBY COMPLEX, 2-6% SLOPES

VACANT LOT APRIL 2018 DECEMBER 2018 COMPANY - TBD

> [CITY], [STATE] [ZIP] [ON-SITE CONTACT] (ON SITE CONTACT)
> PHONE: XXX-XXX-XXXX

NATHAN HARRINGTON (614-556-4272)

SEDIMENT CONTROL SHALL BE DISCUSSED.

3. INSTALL SILT FENCE PERIMETER CONTROLS AS SHOWN ON THE PLANS AND INLET PROTECTION ON EXISTING INLET STRUCTURES WITHIN 7 DAYS OF CLEARING/GRUBBING AND PRIOR TO GRADING

ACTIVITIES.

4. INSTALL CONSTRUCTION ENTRANCE, IF CONDITIONS ARE SUCH THAT MUD IS COLLECTING ON VEHICLE TIRES. THE TIRES MUST BE

CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY.
THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT
WILL PREVENT THE TRACKING OR FLOW OF MUD INTO THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY.

5. CONSTRUCT STORM DRAIN. DURING CONSTRUCTION OF STORM

DRAINS THE ENDS OF ALL OPEN PIPES SHALL BE PROTECTED BY FILTER BARRIERS OR OTHER APPROVED MEANS.

a.)PROMPTLY UPON BACKFILL OF STORM STRUCTURES, FILTER

BARRIERS SHALL BE PLACED

b.)CONSTRUCT TEMPORARY SWALES TO DRAINAGE STRUCTURES. 6. ANY REMAINING EXPOSED AREAS SHALL BE SEEDED AND MULCHED

OR SODDED WITHIN 7 DAYS OF FINAL GRADE.
MAINTAIN EROSION & SEDIMENT CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED & APPROVED BY CITY OF

BUSILIN.

8. REMOVE SEDIMENT CONTROLS.

9. CONSTRUCTION WASTE (INCLUDING CONCRETE WASHOUT) WILL NEED TO BE TRANSPORTED TO A LEGAL DUMP SITE.

GENERALLY THE SITE DISCHARGES OVERLAND TO THE NORTHEAST / EAST BOUNDARY LINES.

ABBREVIATION LEGEND

PROPERTY LINE SQUARE FOOT FINISH FLOOR ELEVATION

GRAPHIC SCALE

(IN FEET)

1 inch = 30 ft.

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SHEET NAME: CONTROL PLAN

SHEET NUMBER

- LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS AND ORDINANCES. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE LOCAL JURISDICTIONAL AUTHORITY AND/OR THE STATE EPA. FAILURE TO COMPLY WITH LOCAL CODES, REGULATIONS AND/OR ORDINANCES IS SUBJECT TO LEGAL ENFORCEMENT ACTION. IN ADDITION, DUMPING OF MATERIALS INTO THE STORM SEWERS WILL NOT BE
- 2. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE LOCAL JURISDICTIONAL AUTHORITY AND/OR THE STATE EPA.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT SETTLING POND, IT MUST BE REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION. SEDIMENT SETTLING PONDS MUST BE REPAIRED

GENERAL

- ALL DEWATERING FLOWS SHALL BE SILT-FREE PRIOR TO DISCHARGE. AND DISCHARGE SHALL BE DIRECTED TO STABILIZED SITES SUCH AS STREAMS, PONDS, STORM SEWERS OR EXISTING GRASSED DRAINAGE WAYS ACCEPTABLE TO THE OWNER. NOT ONTO EXPOSED SOILS OR ANY OTHER SITE WHERE FLOWS COULD CAUSE EROSION.
- THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT (LINDISTLIBBED) FOR MORE THAN TWENTY-ONE (21) DAYS. FOR AREAS WITHIN FIFTY (50) FEET OF ANY STREAM, FIRST ORDER OR LARGER (CREEK IS FIRST ORDER), SOIL STABILIZATION PRACTICES SHALL BE INITIATED WITHIN DAYS ON ALL INACTIVE, DISTURBED AREAS AND WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. IF DUE TO WEATHER, FINAL GRADING CANNOT BE ACCOMPLISHED IMMEDIATELY, MULICHING AND TEMPORARY SEEDING IF FEASIBLE, OR SOME OTHER TYPE OF TEMPORARY EROS, IN INCIDENTIAL MEASURES MUST BE USED WITHIN SEVEN (7) DAYS UNTIL LONG-TERM RESTORATION CAN OCCUR. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USED. ANY AREAS AT FINAL GRADE OR THAT WILL LIE DORMANT FOR ONE YEAR OR MORE REQUIRE PERMANENT SEEDING WITHIN SEVEN DAYS OF THE MOST RECENT
- ANY AREAS AT FINAL GRADE OR THAT WILL LIE DORMANT FOR MORE THAN ONE YEAR OR MORE SHALL BE PERMANENTLY SEEDED WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE.THE SEEDED ARE WILL BE CONSIDERED STABILIZED WHEN THERE IS A 70% VEGETATIVE DENSITY
- PRESERVATION SHALL TAKE PRECEDENCE OVER REMOVAL WITHIN THE TEMPORARY WORK LIMITS.
 REMOVE ONLY THOSE TREES, SHRUBS AND STRUCTURES NECESSARY TO COMPLETE CONSTRUCTION MAINTAIN THE NEW FACILITIES. REPLACEMENT "IN-KIND" OF REMOVED ITEMS SHOULD OCCUR WHEREVER POSSIBLE
- 5. STOCKPILED TOPSOIL AND MATERIALS SHALL BE PROTECTED WITH EROSION CONTROL BARRIERS OR
- 6. EXCESS SOIL THAT IS STOCKPILED MUST BE EITHER REMOVED OR REGRADED WITHIN 15 DAYS OF THE COMPLETION OF THE CONSTRUCTION.
- NO FILL, TOPSOIL OR HEAVY EQUIPMENT SHALL BE STORED WITHIN 200 FEET OF A STREAM BANK OR
- 8. ALL DISTURBED VEGETATION IS TO BE RESEEDED AS PART OF RESTORATION UNLESS THE AREAS WILL BE PAVED OR OCCUPIED.
- 9. ONLY WATER OR CALCIUM CHLORIDE WILL BE USED AS A DUST PALLIATIVE.
- 10. CONTRACTOR SHALL INSPECT ALL INSTALLATIONS OF SOIL EROSION AND SEDIMENTATION CONTROL METHODS DAILY, ANY DAMAGED OR NON FUNCTIONAL AREAS SHALL BE REPAIRED IMMEDIATELY AND MAINTAINED THROUGH THE DURATION OF THE PROJECT OR UNTIL STABILIZED VEGETATION IS
- 11. SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT EARTH DISTURBING ACTIVITY. SEDIMENT PONDS AND PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RESTABILIZED.
- 12. IN THE EVENT OF CONFLICT BETWEEN THESE REQUIREMENTS AND POLLUTION CONTROL LAWS, RULES OR REGULATIONS OF OTHER FEDERAL, STATE, OR LOCAL AGENCIES, THE MORE RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.

SILT FENCE

- FILTER FABRIC MATERIAL FOR SILT FENCE SHALL BE PURCHASED IN A CONTINUOUS ROLL. CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
- 2. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM 18 INCHES).
- 4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP FOR THE SILT FENCE ALONG THE LINE OF POSTS, UPSLOPE FROM THE BARRIER.
- 5. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER MATERIAL
- 6. THE SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- THE CONTRACTOR SHALL MAINTAIN SILT FENCE UNTIL UPSLOPE AREA HAS BEEN PERMANENTLY

SILT FENCE MAINTENANCE

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. EXTRA CARE SHALL BE TAKEN TO MAINTAIN SILT FENCE NEAR POND.
- SHOULD THE FABRIC ON THE SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

GENERAL NOTES

- 5. ALL GRADES SHOWN ARE FINAL FINISH GRADES.
- 6. MEET ALL EXISTING GRADES FLUSH, INCLUDING EXISTING CURBS.
- 7. ALL LAWN AREAS TO MEET PAVEMENT EDGES FLUSH, UNLESS NOTED OTHERWISE ON THE PLAN.
- 8. ALL LAWN AREAS TO HAVE 2% MIN. SLOPE
- 9. ALL PROPOSED CURBS ARE 6" HIGH, UNLESS NOTED OTHERWISE ON PLAN.

- 10. ALL SPOT ELEVATIONS AT CURBS ARE AT BOTTOM OF CURB, UNLESS NOTED OTHERWISE ON PLAN
- 11. FOR ALL CURBS THAT DO NOT TERMINATE INTO A WALL OR ANOTHER CURB, TAPER FROM A 6" REVEAL TO 0" OVER 2'-0," AT CURB TERMINATION.
- 12. OWNER TO PROVIDE GEOTECHNICAL REPORT
- ELEVATIONS AND REPLACE W/ ENGINEERED FILL, PER THE PROJECT GEOTECHNICAL REPORT, AND AS DIRECTED ON SITE, BY THE GEOTECHNICAL ENGINEER.
- 14. REFER TO UTILITY PLAN FOR HORIZONTAL LOCATIONS OF DRAINAGE STRUCTURES

13 REMOVE LINSUITABLE MATERIALS TO A DEPTH OF AT LEAST 18" BELOW PAVEMENT SUBGRADE

- 15. ALL SITE UTILITIES, INCLUDING SITE DRAINAGE, ARE SHOWN FOR REFERENCE ONLY. SEE SITE ELECTRICAL AND SITE UTILITY PLANS.
- 16. REFER TO SURVEY DRAWING FOR BENCHMARK INFORMATION.

SPECIFICATIONS FOR MULCH

- MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMAT(UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE
- 2. MULCH SHALL CONSIST OF ONE OF THE FOLLOWING
- STRAW STRAW SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90LBS/1,000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS HAND-SPEAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ FT SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.
- B. HYDROSEEDERS WOOD CELLULOSE FIBER SHOULD BE USED AT 2,000 LB/AC OR 46 LB/1,000 SQ. FT.
- C. OTHER OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURE'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 10-20 TONS/AC
- 3. MULCH ANCHORING MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH.
- MECHANICAL USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 INCHES.
- MULCH NETTINGS USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
- C. ASPHALT EMULSION FOR STRAW MULCH, APPLY AT THE RATE OF 160 GAL/AC (0.1 GAL/SY) INTO THE
- D. SYNTHETIC BINDERS FOR STRAW MULCH, SYNTHETIC BINDERS AS ACRYLIC DLR(AGRI-TAC), DCA-70 PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER
- F WOOD CELLULOSE FIRER WOOD CELLULOSE FIRER MAY ME USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB.AC. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB/100 GAL

SPECIFICATIONS FOR TEMPORARY SEEDING

TEMPORARY SEEDING SPECIES SELECTION

SEEDING DATES	SPECIES LI	B/1,000 SQ.FT.	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS	S 1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
AUGUST 16 TO NOVEMBER 1	RYE	3	2 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	WHEAT	3	2 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1	40 LB 40 LB 40 LB

NOVEMBER 1 TO SPRING SEEDING USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

- STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT
 TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.
- 2. TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 21 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEEDED AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEEDED WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
- THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION, HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
- SOIL AMENDMENTS APPLICATION OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
- 5. SEEDING METHOD SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEFDER. DRILL SEEDING METHOD - SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

SPECIFICATIONS FOR PERMANENT SEEDING

PLANTING TIME: PROCEED WITH - AND COMPLETE - LAWN WORK AS RAPIDLY A PORTIONS OF THE SITE BECOME AVAILABLE, WORKING WITHIN SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. NORMAL SEEDING TIMES ARE AS FOLLOWS:

- MARCH 15 TO JUNE 10

SEEDING DURING OTHER THAN NORMAL SEEDING TIMES SHALL BE PERFORMED ONLY WITH THE PRIOR WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT WITH THE UNDERSTANDING THAT THE CONTRACT WILL THEREFOR BE ALTERED BY THE CHANGE ORDER.

GRASS SEED: PROVIDE FRESH, CLEAN, NEW CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSTS OF MINIMUM PERCENTAGES OF PURITY GERMINATION AND MAXIMUM PERCENTAGES OF WEED SEED, AS FOLLOWS: OLIGER SEED COMPANY (330) 724-1266 FESCUE PLUS MIX

BOTANICAL AND COMMON NAME SECOND MILLENNIUM	BY W	CENTAGE EIGHT MUM)	PURI	CENTAGE TY MUM)	PERCENTAGE GERMINATION (MINIMUM)	PERCENTAGE WEED SEED (MINIMUM)
TALL FESCUE		20%		85%	80%	1.00%
INFERNO TALL FESCUE		20%		85%	80%	1.00%
CROSSFIRE II TALL FESCUE	2	0%		85%	80%	1.00%
AVENGER TALL FESCUE		20%		85%	80%	1.00%
BRIGHTSTAR SLT PERENNIAL RYEGRASS		10%		85%	80%	1.00%
BROOKLAWN KENTUCKY BLUEGRASS		10%		85%	80%	1.00%
DEDECORM ALL LIMING FERT	11.17161	C DAKING	ANDO	OMBACTING ORE	DATIONS ONLY AT TIME	C WHEN LOCAL

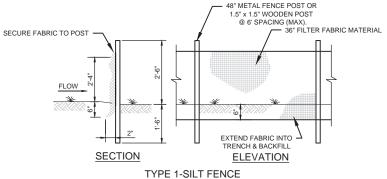
PERFORM ALL LIMING, FERTILIZING, RAKING, AND COMPACTING OPERATIONS ONLY AT TIMES WHEN LOCAL WEATHER AND OTHER CONDITIONS AFFECTING SUCH WORK ARE NORMAL AND FAVORABLE TO THE PROPER PROSECUTION OF THE PARTICULAR WORK WITHIN THE DATES SPECIFIED OR WITHIN AN EXTENDED PERIOD OF TIME APPROVED BY THE OWNER'S REPRESENTATIVE.

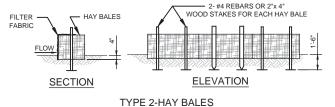
FERTILIZING AND LIMING: THE CONTRACTOR SHALL INTRODUCE A 10-20-10 FERTILIZER AT THE RATE OF 20 POUNDS PER 100 SQUARE FEET. LIME OR OTHER ADDITIVES AT THE RATE APPROVED BY THE ARCHITECT. THE ABOVE TIEMS SHALL BE WORKED INTO THE TOP 2 INCHES OF SOIL AND SMOOTHED TO GRADE TO PREPARE A PROPER BED FOR SEEDING.

SOW SEED AT THE RATE OF 5 POUNDS PER 1000 SQUARE FEET FOR EACH AREA. UNIFORMLY, AND BY BROADCAST DRILL OR HAND SEEDING METHOD, IMMEDIATELY AFTER SOWING, RAKE DRAG, OF OTHERWISE TREAT THE AREA SO AS TO COVER THE SEED TO A DEPTH OF OF APPROXIMATELY 1/4 INCH.

NO SEEDING SHALL BE DONE DURING WINDY WEATHER, OR WHEN THE GROUND SURFACE IS MUDDY

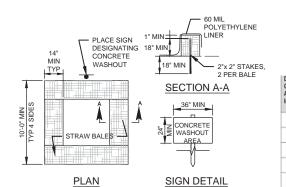
WHEN LANDSCAPE WORK IS COMPLETED, INCLUDING MAINTENANCE, THE LANDSCAPE ARCHITECT WILL MAKE AN INSPECTION TO DETERMINE ACCEPTABILITY.





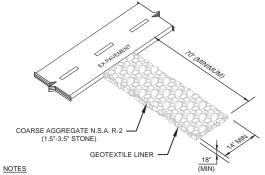
EROSION CONTROL DETAILS SEDIMENT BARRIRERS

NOT TO SCALE



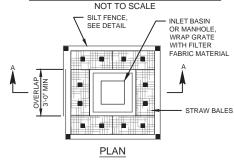
A CONCRETE WASHOUT AREASHALL BE DESIGNATED TO CLEAN CONCRETE TRUCKS AND TOOLS. AT NO TIME SHALL CONCRETE PRODUCTS BE ALLOWED TO ENTER STREAMS OR DRAINS

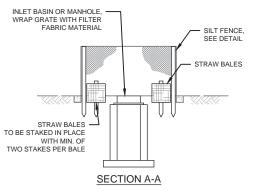
> **CONCRETE WASHOUT BASIN DETAIL** NOT TO SCALE



- LOCATE STONE PAD AT ANY POINT WHERE VEHICULAR TRAFFIC WILL BE LEAVING THE SITE ONTO A PUBLIC RIGHT-OF-WAY STREET, ROADWAY, OR PARKING AREA.
- PAD WIDTH 14-0" MINIMUM BUT NOT LESS THAN FULL WIDTH OF ALL POINTS OF VEHICULAR EGRESS. PAD LENGTH 70'-0" MINIMUM.
- 3 MAINTAIN THE EXIT TO PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY PROVIDE PERIODIC TOP DRESSING WITH 1.5-3.5" STONE, AS CONDITIONS DEMAND.
 IMMEDIATELY REMOVE ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO ROADWAY, INTO STORM DRAINS OR DITCHES.
- 4. CLEAN WHEELS TO REMOVE MUD PRIOR TO EXITING CONSTRUCTION SITE. WHEN WASHING IS REQUIRED. DO SO ON AREAS STABILIZED WITH CRUSHED STONE DRAINING INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

EROSION CONTROL DETAILS CONSTRUCTION DRIVE STABILIZATION NOT TO SCALE





EROSION CONTROL DETAILS INLET PROTECTION DETAIL

NOT TO SCALE

te ading tivity tiated	Description of Grading Activity	Date Grading Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures are Initiated	Description of Stabilization Me Location

GRADING & STABILIZATION LOG (SAMPLE)

SWPPP Contact

mendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]
			1970



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ENGINEERING

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CITY-DUBLIN

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STATUS:

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PROJECT NUMBER

2016.223

23 MARCH 2018

FROSION CONTROL NOTES & DETAILS

B

SHEET NUMBER

SWP3 AMENDMENT LOG (SAMPLE)

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TOP OF TREATED 4"X4" - WOODEN POST

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STATUS:

DRAWN PV

SF

DATE: 23 MARCH 2018

ET NAME:

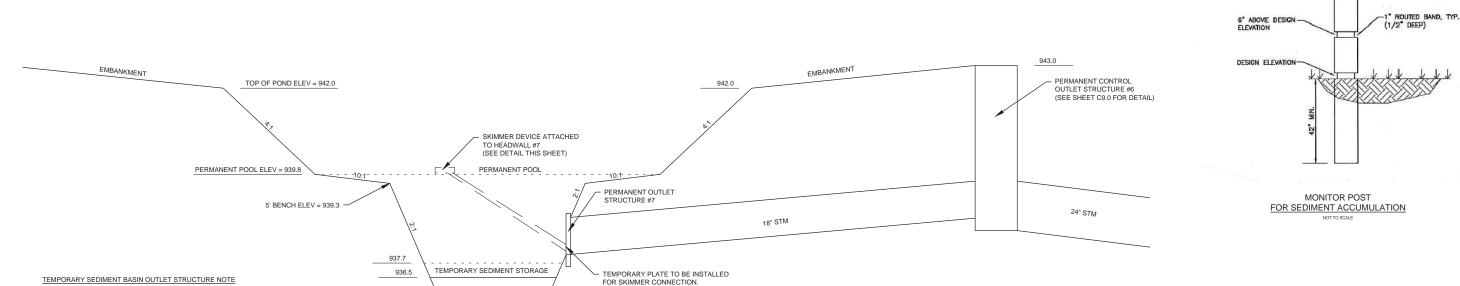
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EROSION CONTROL DETAILS

7 2



TEMPORARY SEDIMENT BASIN OUTLET STRUCTURE DETAIL

SEDIMENT STORAGE

936.0

NOT TO SCALE

STORM DRAIN OUTLET NOTES

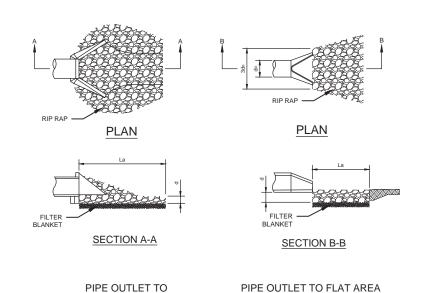
WELL DEFINED CHANNEL

 CONTRACTOR SHALL REMOVE TEMPORARY ORIFICE PLATE AFTER THE SITE IS STABILIZED. BASIN TO BE CLEANED OF ANY SEDIMENT BEFORE REMOVAL OF

2. REFERENCE STORM WATER MANAGEMENT REPORT FOR WATER QUALITY CALCULATIONS.

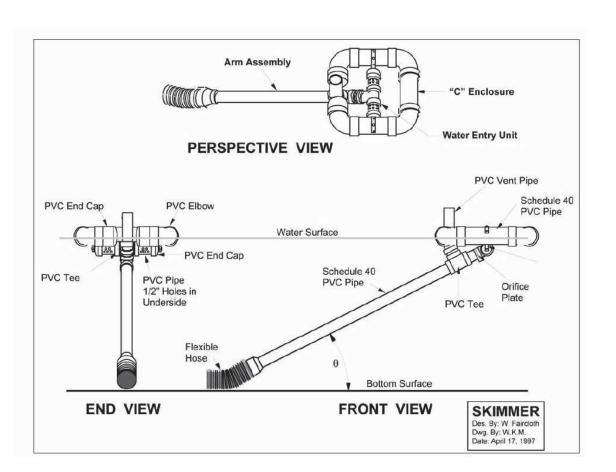
TEMPORARY ORIFICE PLATE.

- LENGTH (La) IS THE RIPRAP LENGTH (10 FEET MINIMUM OR AS SHOWN ON THE DRAWINGS).
- 2. DEPTH (d) IS THE RIPRAP DEPTH (1.5 TIMES THE MAXIMUM STONE DIAMETER, OR AS SHOWN ON DRAWINGS BUT NOT LESS THAN 12").
- 3. INSTALL A 2" MINIMUM DEEP FILTER STONE BLANKET (#467 STONE) OR FILTER FABRIC BETWEEN RIPRAP AND SOIL FOUNDATION.



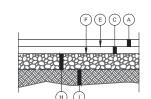


NO WELL DEFINED CHANNEL

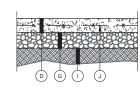


SKIMMER DETAIL NOT TO SCALE

(PARKING STALLS) PR ASPHALT PAVEMENT (LIGHT)



(DRIVE AISLES) PR ASPHALT PAVEMENT (HEAVY)



NOTES: 1.) USE 6X6 W4.0X W4.0 MAT REINFORCEMENT

FULL DEPTH HEAVY DUTY CONCRETE PAVEMENT

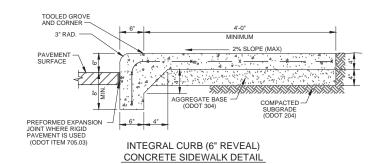
PAVEMENT LEGEND

- © 2.5" MIN. ASPHALT INTERMEDIATE COURSE (ODOT CMS 448 TYPE 2)
- 8" REINFORCED CONCRETE (ODOT CMS 451)

- (H) 10" AGGREGATE BASE (ODOT CMS 304)
- REINFORCEMENT (ODOT ITEM 509)

PAVEMENT NOTES:

PAVEMENT SECTION TO BE VERIFIED WITH GEOTECHNICAL ENGINEER AND APPROVED BY OWNER PRIOR TO INSTALLATION.



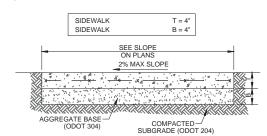
TOOLED GROVE AND CORNER PAVEMENT SURFACE 2% SLOPE (MAX Variable Property SATE BASE -COMPACTED -(ODOT 304 PREFORMED EXPANSION JOINT WHERE RIGID PAVEMENT IS USED (ODOT ITEM 705.03) INTEGRAL CURB (0" REVEAL)

 $\underline{\text{NOTES}}$ 1) USE 3/8"x 4" EXPANSION JOINTS AT CHANGE OF DIRECTIONS, CURBS, RIGID STRUCTURES, AND RIGID PAVEMENT. ON STRAIGHT RUNS PROVIDE EXPANSION JOINTS EVERY 20 FEET.

2) CONCRETE-SIDEWALKS- USE READY-MIX CONCRETE WITH 4,000 PSI STRENGTH @ 28 DAYS

CONCRETE SIDEWALK DETAIL

3) USE REINFORCEMENT - 6x 6 - W1.4x W1.4 W.W.M.
4) TOOL ALL EXPOSED EDGES AND JOINTS TO 3/4" RADIUS.
5) BROOM FINISH ACROSS DIRECTION OF TRAVEL.



CONCRETE SIDEWALK DETAIL

- (ODOT CMS 448 TYPE 1)
- (ODOT CMS 448 TYPE 2)
- TACK COAT (ODOT CMS 407)
- F PRIME COAT (ODOT CMS 408)
- (G) 8" AGGREGATE BASE (ODOT CMS 304
- SUBGRADE COMPACTION (ODOT CMS 204)

PRECAST CONCRETE WHEEL STOP DETAIL

PLAN

ELEVATION

1-3/4" x 1-3/4" x 8

3/8" CROWN

SQUARE GALVANIZED TUBING OR EQUAL

EXTEND INTO CONCRETE FILLED PIPE BOLLARD 3'-0" DOWN PROVIDE WELDED WATERTIGHT CAF

PAINT P&L #6118 - BLACK COFFEE

SEE NOTE #5 ABOVE FOR

1'-6" DIAMETER

CONCRETE

PIPE BOLLARD WITH ADA ACCESSIBLE SIGN DETAIL NOTES:

USE 3/8"x 4" EXPANSION JOINT WHEN CONCRETE ABUTS RIGID PAVEMENT.

ATTACHING SIGN PANEL TO POST. (WWW.IDEALSHIELD.COM)

CONCRETE BASE

BOLLARD COVER & COLOR

FILLED WITH CONCRETE

SECTION

- METAL SIGN:

METAL SIGN

METAL FINE SIGN

SLOPE CONCRETE

USE HANDICAPPED PARKING SIGNS SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS

NOTE: SIGNS SHALL BE IN ACCORDANCE WITH OHIO REVISED CODE 4511.69(E), APPLICABLE CITY REGULATIONS AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES. SIGN DESIGNATIONS ARE ACCORDING TO THE OHIO MANUAL

HANDICAP PARKING SIGNS

USE READY-MIX CONCRETE WITH 3,000 PSI STRENGTH AT 28 DAYS.

TOOL ALL EXPOSED EDGES AND JOINTS TO 1/4" RADIUS.

INSTALL 1/4" IDEALSHIELD (OR APPROVED EQUAL) PLASTIC BOLLARD COVER, BLACK IN COLOR, PRIOR TO

#4 BAR. 12: LONG THRU

VAN ACCESSIBLE

PARKING SIGN

PAVEMENT ALTERNATE EXTRUDED CURB DETAIL SEE TABLE . PREFORMED EXPANSION JOINT WHERE RIGID PAVEMENT IS USED (ODOT ITEM 705.03) 18" CONCRETE CURB DETAIL

ACCESSIBLE PARKING SIGN

JOINT SEALER -

CONCRETE USED IN PRECASTING WHEEL STOPS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH

2.) DETAILED DIMENSIONS MAY BE VARIED SLIGHTLY TO CONFORM TO LOCAL AVAILABILITY WHEN APPROVED BY THE ENGINEER

3.) WHEEL STOPS SHALL BE HELD IN PLACE BY DRIVING TWO (2)18" LONG #4 REBARS THROUGH THE PREFORMED HOLES IN EACH PRECAST WHEEL STOP FOR AUTOS, FOR TRUCKS USE 30" LONG #6 REBAR

METAL SIGN:

- METAL FINE SIGN

R7-8

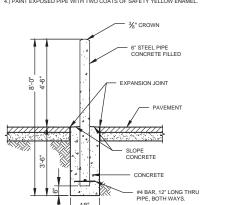
FILLER ITEM 705.03, SEAL TOP 1" WITH JOINT SEAL

TRANSFORMER ANCHORS

EX GROUND

1.) USE 3/8"x 4" EXPANSION JOINT WHEN CONCRETE ABUTS RIGID PAVEMENT. 2.) USE READY-MIX CONCRETE WITH 3,000 PSI STRENGTH AT 28 DAYS.

4.) PAINT EXPOSED PIPE WITH TWO COATS OF SAFETY YELLOW ENAMEL



PIPE BOLLARD DETAIL NOT TO SCALE

3'-0"

PAVEMENT MARKING NOTES AND SPECIFICATIONS

LINE OF TRANSFORMER MODULE

SUBGRADE COMPACTION

(ODOT CMS 204)

#5 BAR

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY THE LOCATIONS OF HURRICANE TIE-DOWN ANCHORS TO BE CAST, INTO NEW CONCRET

#4 (TYP) -(EXTERIOR)

SIDES

ODOT ITEM 608

ODOT ITEM 204

ODOT ITEM 304

4" AGGREGATE

2" CLR (TYP)

SEE PLANS FOR DIMENSIONS

(CONCRETE WALK)

FROST STOOP DETAIL

SUBGRADE

COMPACTION

BASE ·#4 @ 12"

-#4 (TYP)

8" CONCRETE, CLASS C - #4 @ 12" EW OC

SLOPE

FOUNDATION FOR TRANSFORMER. ANCHORAGE TO BE DESIGNED TO WITHSTAND WINDS UP TO 100 MPH OR AS REQUIRED BY LOCAL CODES.

TRANSFORMER PAD DETAIL

PREFORMED EXP. JOINT

(INTERIOR)

(EX. SLAB)

-#4 BARS @ 12" O.C

ALL PAVEMENT MARKINGS SHALL BE YELLOW FAST DRY-WATER-BASED TRAFFIC PAINT PER O.D.O.T.

ALL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITIONS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS DESIGN GUIDE AND SHALL MEET ALL CURRENT A.D.A. (AMERICAN WITH DISABILITIES ACT) STANDARDS.

PROPOSED



HANDICAP PARKING SYMBOL DETAIL

STOP BAR NOTES

COLOR: WHITE

DIMENSIONS BETWEEN STRIPING ARE MEASURED TO THE CENTER OF THE

COLOR: LIGHT BLUE

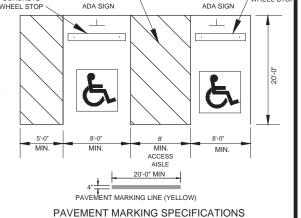
INTERNATIONAL

ACCESSIBILITY

SYMBOL OF



STOP BAR DETAIL



NOT TO SCALE

NEW COMPACTED 8" AGGREGATE BASE

(ODOT CMS 304)

1" X 2" SHEER KEY 4000PSI CONCRETE

#5 BENT BARS AT

FOOTING EXTEND MINIMUM 36'

PREFORMED EXP. JOINT

FILLER ITEM 705.03, SEAL TOP 1" WITH JOINT SEAL

CLASS C SEE DETAIL

ODOT ITEM 608 4" CONCRETE WALK,

4" AGGREGATE BASE

2" CLR (TYP)

PROPOSED

4 SIDES

BELOW GRADE

12" O.C.

CONCRETE

1" CHAMFER

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CONCRET WHEEL ST PROJECT NUMBER 2016.223

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SITE DETAILS

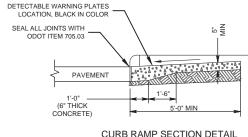
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CURB RAMP NOTES:

1. ALL DETECTABLE WARNING PLATES SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT -ON-DARK, OR DARK-ON-LIGHT

OF UNIFORM TRAFFIC CONTROL DEVICES.

- 2. JOINTS SHALL BE PROVIDED IN THE CURB RAMP AS EXTENSIONS OF WALK JOINTS AND CONSISTENT WITH ITEM 608.03 REQUIREMENTS FOR A NEW CONCRETE WALK, A 1/2" ITEM 705.03 EXPANSION JOINT FILLER SHALL BE PROVIDED AROUND THE EDGE OF RAMPS BUILT IN EXISTING CONCRETE WALK. LINES SHOWN ON THIS DRAWING INDICATE THE RAMP EDGE AND SLOPE CHANGES AND ARE NOT NECESSARILY JOINT LINES.
- 3. EXPANSION JOINT FILLER SHALL NOT EXTEND ABOVE THE SURFACE OF THE PAVEMENT.



CURB RAMP SECTION DETAIL





=======

INLET END GROOVE OR BELL

UPSTREAM

END TREATMENT AT ENDWALL

OUTLET END TONGUE OR SPIGOT

DOWNSTREAM

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PROJECT NUMBER:

2016.223

23 MARCH 2018

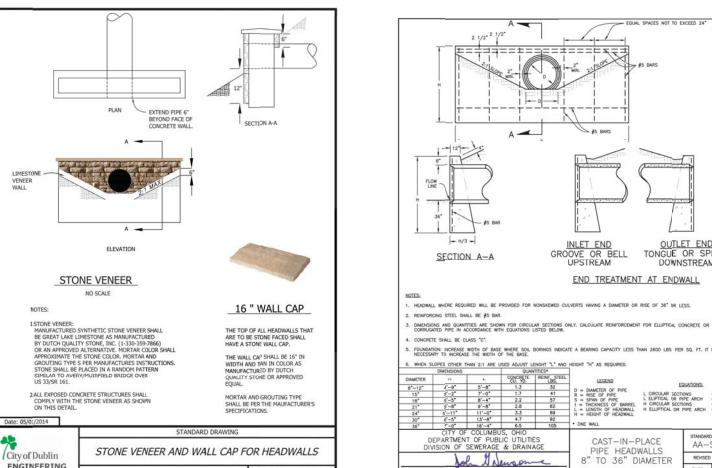
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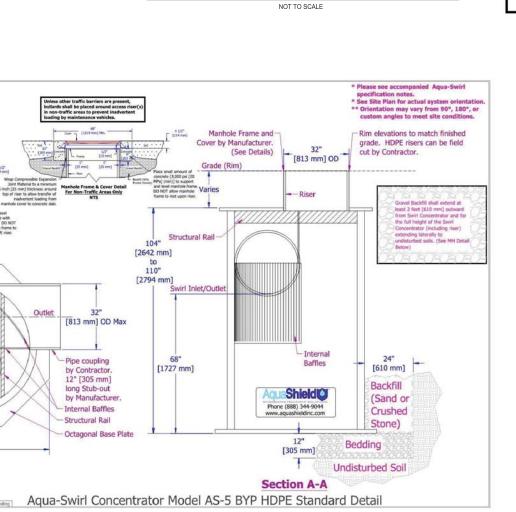
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STORMWATER SEWER DETAILS

SHEET NUMBER: C9.0





BRASS CAP COUNTER SUNK

6" MIN.

MAINTAIN POSITIVE DRAINAGE BETWEEN THE

JOINT LEGEND

F = FXPANSION JOINT

C = CONTROL JOINT

14" MIN

THE PROPOSED PAVEMENT

6" C.I. SERVICE WT. PIPE

ROOF DRAIN CLEANOUT

PROPOSED CATCH BASIN CONCRETE BOXOUT PLAN (TYPICAL)

— 3'-0" SQ. MIN.

1.) 8" CLEAN OUT SHALL BE USED FOR 8" SEWER AND LARGER 2.) SMALLER SIZE SEWERS AND LAMP SHALL HAVE SAME SIZE PIPE **CLEANOUT DETAIL**

WITH CONCRETE PAD

NOT TO SCALE

GROUND LEVEL

NOTES:

Aqua-Swirl High Density Polyethylene (HDPE) Stormwater Treatment System

Ø66 7/8"

[2007 mm]

Aqua Shield (1)

[Ø1699 mm]

180***

[2007 mm]

Plan View

C.I. CAP AND MASTIC SEAL

LAST LENGTH CAST IRON CUT TO FIELD MEASURE MEN SHE ENCASED IN 3000# CONCRETE AS

SEAL ALL JOINTS

(TYPICAL)

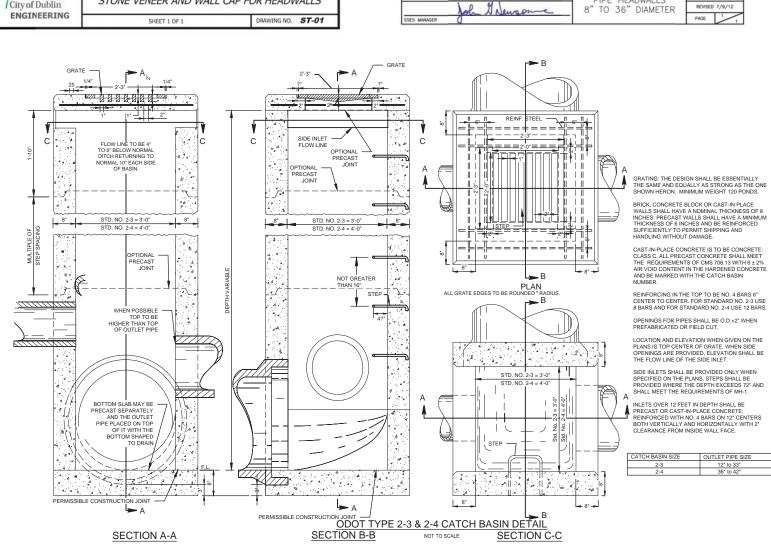
PROPOSED RIM ELEVATION -0.5" FROM SURROUNDING

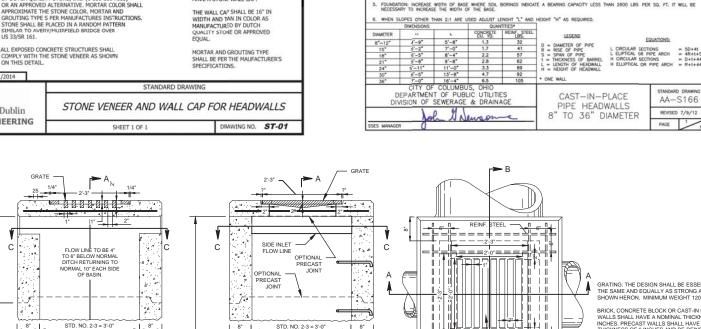
ASPHALT PAVEMENT

ON EACH SIDE OF PIPE

SAND CUSHION

PVC STOPPER SEALED

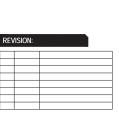




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STATUS:



PROJECT NUMBER:

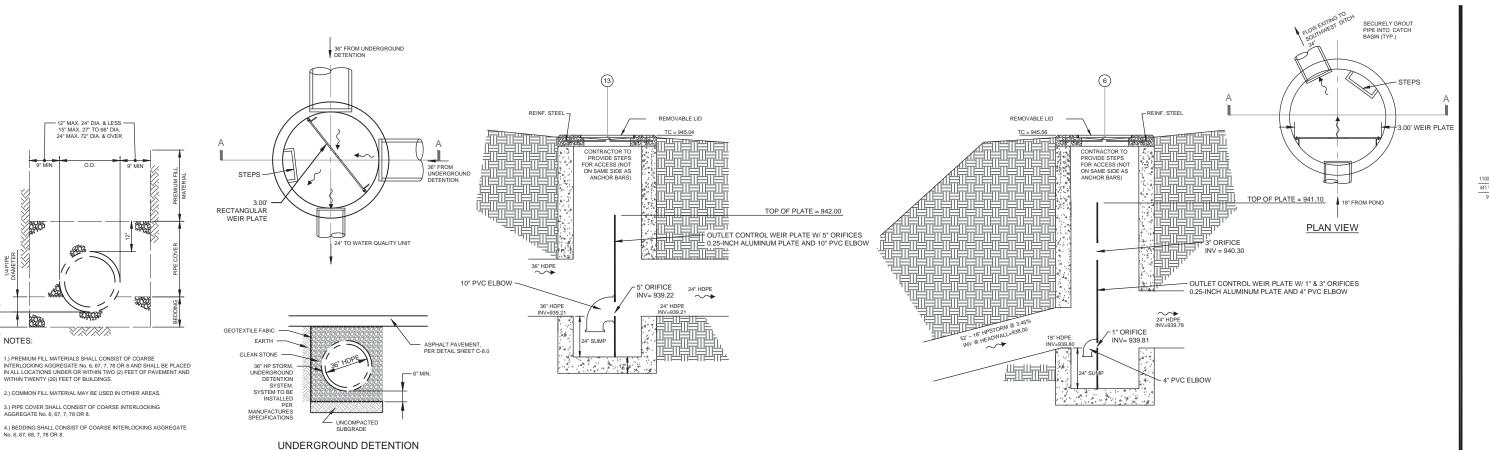
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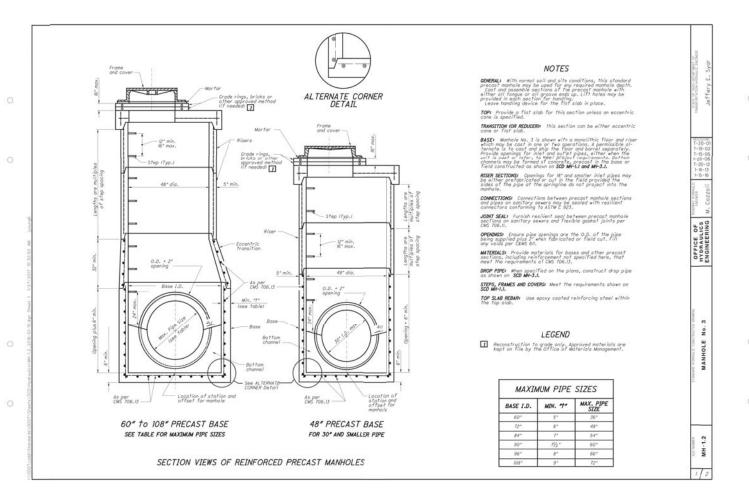
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S-P

STORMWATER SEWER DETAILS



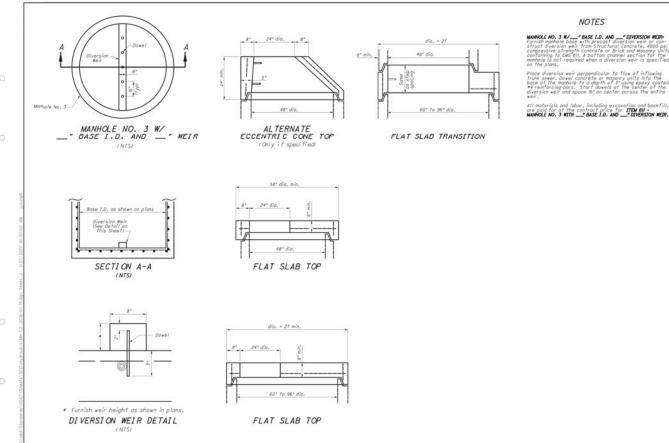
UNDERGROUND DETENTION OUTLET STRUCTURE (#13) DETAIL



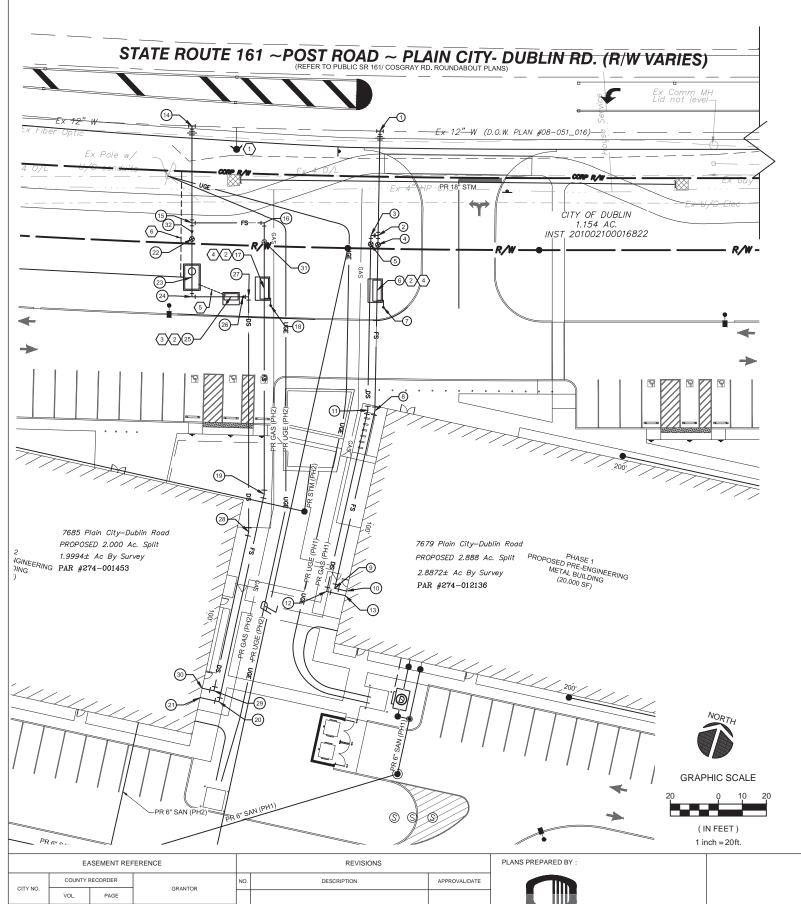
W/ STONE ENCASEMENT DETAIL

NOTES:

TYPICAL TRENCH DETAIL

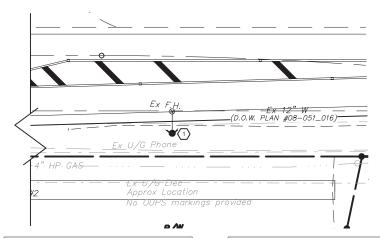


POND & OUTLET STRUCTURE (#6) DETAIL



OSBORN

ENGINEERING 990 West Third Avenue, Suite 200 Columbus, Ohio 43212 Ph 614.556.4272



PHASE 1 WATER SERVICE (#) COORDINATE TABLE								
POINT	DESCRIPTION	NORTHING	EASTING					
1	6" TAPPING SLEEVE & VALVE (DIP) @ EX 12" WM	768031.68	1774140.51					
2	6"X6"X3" TEE (DIP)	767989.86	1774152.62					
3	3" 90° BEND (DIP)	767989.04	1774149.74					
4	6" VALVE	767986.17	1774153,68					
5	3" VALVE	767985.54	1774150.75					
6	ABOVE GROUND HOTBOX (HB6E OR APPROVED EQUAL) W/ BACKFLOW PREVENTER (AMES 5000SS OR APPROVED EQUAL) FOR 6" FS	767967.85	1774158.94					
7	FDC	767961.91	1774163.55					
8	6" 11.25° BEND (DIP)	767919.61	1774172.82					
9	6" 11.25° BEND (DIP)	767844.06	1774178.49					
10	6" FS BLDG ENTRY	767844.44	1774183.48					
11	3" 11.25 ° BEND (DIP)	767919.08	1774169.85					
12	3" 90° BEND (D I P)	767841.84	1774175.65					
13	3" DS BLDG ENTRY	767842.44	1774183.63					

PHASE 2 WATER SERVICE (#) COORDINATE TABLE							
POINT	DESCRIPTION	NORTHING	EASTING				
14	6" TAPPING SLEEVE & VALVE (DIP) @ EX 12" WM	768010.76	1774065.08				
15	6"X6"X3" TEE (DIP)	767972.18	1774076.93				
16	6" 90° BEND (D I P)	767981.02	1774105.73				
17	ABOVE GROUND HOTBOX (HB6E OR APPROVED EQUAL) W/ BACKFLOW PREVENTER (AMES 5000SS OR APPROVED EQUAL) FOR 6" FS	767954.82	1774113.78				
18	4" 11.25° BEND (C900)	767948.81	1774118.41				
19	6" 11.25° BEND (DIP)	767872.96	1774138.91				
20	6" 11.25° BEND (DIP)	767784.75	1774146.24				
21	6" FS BLDG ENTRY	767784.09	1774138.26				
22	3" VALVE	767965.74	1774078.90				
23	3" DS METER VAULT	767950.54	1774083.58				
24	3" 90° BEND (DIP)	767942.71	1774085.98				
25	ABOVE GROUND HOTBOX (HB3E OR APPROVED EQUAL) W/ BACKFLOW PREVENTER (AMES 4000SS OR APPROVED EQUAL) FOR 3" DS	767947.50	1774101.56				
26	3"X4" INCREASER (3" DIP TO 4" C900)	767948.93	1774106.24				
27	6" 90° BEND (D I P)	767949.64	1774108.54				
28	4" 11,25° BEND (C900)	767855.99	1774137.31				
29	4" 90° BEND (C900)	767788.49	1774142.92				
30	4" DS BLDG ENTRY	767788.07	1774137.93				
31	6" VALVE	767973.45	1774108.05				
32	6"X3" REDUCER (6" DIP TO 3" DIP)	767968.61	1774078.03				

(#) WATER SERVICE PLAN CODED NOTES:

- EXISTING FIRE HYDRANTS TO BE RELOCATED DO TO EAISI ING FIRE HTDRAIN'S IN DE RELUCATED DU TO ROAD WIDENING (BY OTHERS). APPROXIMATE NEW LOCATIONS SHOW THIS PLAN FOR REFERENCE. REFER TO SR 161/COSGREY RD. ROUNDABOUT PLANS FOR DETAILS.
- 3. ABOVE GROUND HOTBOX FOR 3" DS PAD DIMENSIONS TO BE 82"L x 62"W x 4" THICKNESS
- 4. ABOVE GROUND HOTBOX FOR 6" FS PAD DIMENSIONS TO BE 117"L X 72"W X 4" THICKNESS
- 5. 1" CONDUIT
- 6. 4" UNDERDRAIN @ 1% SLOPE



VICINITY MAP

WATER SERVICE PLAN NOTES:

- NO WATER SERVICE CONSTRUCTION, BEFORE OR AFTER METER(S), SHALL BEGIN PRIOR TO THE WATER SERVICE PERMIT(S) BEING ISSUED AND FEE PAYMENT(S) TO THE COLUMBUS DIVISION OF
- SITE LITHLITY CONTRACTOR INSTALLING ANY WATER SERVICE PIPE FROM WATER MAIN THRU AND
- SITE UTILITY CONTRACTOR INSTALLING ANY WATER SERVICE PIPE FROM WATER MAIN THRU AND AFTER METER SHALL HAVE CURRENT CITY OF COLUMBUS WATER SERVICE LICENSE PER THE COLUMBUS CITY CODE 1103 AND 4114.

 THE CITY OF COLUMBUS 'C.M.S.C.' 2012 EDITION SHALL GOVERN ALL WATER SERVICE WORK FROM WATER MAIN TO AND INCLUDING THE METER AND METER BYPASS AND BACKFLOW PREVENTER. THERE SHALL BE A MINIMUM TEN FOOT HORIZONTAL AND 18 INCH VERTICAL SEPARATION BETWEEN WATER ATSPACES, PRIVATE WATER SYSTEMS AND AMY SANITARY AND/OR STORM SEWER SYSTEMS PER THE TEN STATES STANDARDS 8.2 AND 8.8.3.
- STORM SEWER SYSTEMS PER THE TEN STATES STANDARDS 8.8.2 AND 8.8.3.
 ALL WATER SERVICE PIPE, 2" AND SMALLER, MUST USE 2" K COPPER.
 METER 8. BACKFLOW PREVENTION ASSEMBLY AND BACKFLOW PREVENTION ASSEMBLY TO BE
 INSTALLED, WHERE REQUIRED, PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWINGS
 1-6317A8B DATED 5/14/13 AND L-9002 G DATED 5/16/13, RESPECTIVELY. SEE WATER SERVICE NOTE
 BELOW. THE CONTRACTOR SHALL CALL 614-645-6674 WITH INSTALLATION QUESTIONS AND
 614-6645-6781 FOR INSPECTION REQUESTS. A 24 HOUR ADVANCE NOTICE IS REQUIRED.
 a. THE DOMESTIC BACKFLOW PREVENTER SHALL MEET THE ASSE #1013 APPROVAL AND BE
 SIZED TO MATCH CITY WATER METER SIZE.
 b. THE FIRE BACKFLOW PREVENTER SHALL MEET THE ASSE #1047 APPROVAL AND BE SIZED TO
 MATCH THE FIRE WATER SERVICE SIZE (6). IT SHALL ALSO BE EQUIPPED WITH A DETECTOR
 METER THAT IS ITRON 1000 R (REMOTE) COMPATIBLE. MEASURES IN CUBIC FEET AND MEETS
- METER THAT IS ITRON 100R (REMOTE) COMPATIBLE, MEASURES IN CUBIC FEET AND MEETS
- METER THAT IS ITRON 100R (REMOTE) COMPATIBLE, MEASURES IN CUBIC FEET AND MEETS
 THE AWWA C-700 STANDARD.

 8. WATER SERVICE SHALL BE FLUSHED BY THE SITE UTILITY CONTRACTOR PRIOR TO WATER METER
 INSTALLATION. ANY METER DAMAGE CAUSED BY NON-FLUSHING SHALL BE PAID BY THE SITE
 UTILITY CONTRACTOR.

 9. "WATER SERVICE SURVEY COORDINATE TABLE", SHALL BE PROVIDED BY THE WATER SERVICE PLAN
 CREATOR AND SHALL INCLUDE THE HORIZONTAL LOCATION (NORTHING. EASTING) SURVEY
 COORDINATES FOR THE PROPOSED WATER SERVICE IMPROVEMENTS. THE SURVEY COORDINATES
 SHALL BE OBTAINED FOR THE PROPOSED WATER SERVICE(S) AND SHALL INCLUDE ALL TAPPING
 SIEFUES TEES, WAY USE SIZE HYDRANTS BEHINDS DEFLECTIONS PROJUCES BY LIGSCADES AND SHALL BE OBTAINED FOR THE PROPOSED WATER SERVICE(S) AND SHALL INCLUDE ALL TAPPING SLEEVES, TEES, VALVES, FIRE HYDRANTS, BENDS, DEFLECTIONS, REDUCERS, PLUGS/CAPS, AND BUILDING ENTRY POINTS FROM THE CITY MAIN AND THROUGH THE METER SETTING. ALSO, BEYOND THE METER SETTING ANY PRIVATE HYDRANTS SHALL BE SHOWN ON THIS TABLE AS WELL. ALL SURVEY COORDINATES SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAVD 83) WITH THE (1986) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM, SOUTH ZONE. ALL COLORDINATES (NOTHING, EASTING) SHALL BE REFERENCED TO THE NEAREST HUNDREDTH (N XXXXXXXX,XX, E XXXXXXXXXX, ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT OR LESS.
- COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT OR LESS.

 SITE UTILITY CONTRACTOR SHALL CALL COLLUMBUS DIVISION OF WATER AT 614-645-7330 FOR INSPECTION OF 3' AND LARGER DOMESTIC AND/OR FIRE PROTECTION WATER SERVICES AND/OR 3' AND LARGER WATER SERVICE TAPS AND/OR PRESSURE TESTS FROM THE WATER MAIN THROUGH THE RIGHT OF WAY VALVES THROUGH THE WATER METER(S) AND BACKFLOW PREVENTIES), A 24 HOUR ADVANCE IS REQUIRED FOR INSPECTIONS.

 I. HYDROSTATIC TEST OF 3' AND LARGER TAPPING VALVES, TEES, VALVES AND WATER SERVICE PIPING FROM WATER MAIN THROUGH WATER METERS AND INTO THE BUILDING SHALL BE PER C.M.S.C. SECTION BOT 1.14. EXCEPT: THE 150 PSIO F PRESSURE SHALL BE MAINTAINED FOR AT LEAST TWO HOURS IN ANY TESTED SECTION. THE CITY OF COLUMBUS WILL NOT APPROVE ANY TEST
- LASTING LESS THAN TWO HOURS REGARDLESS OF ANY LEAKAGE.
- LASTING LESS HANN TWO HOURS NEGARCLESS OF ANY LEARNAGE.

 2. ALL 3" THROUGH 12" WATER SERVICE PIPE SHALL BE DUCTILE IRON FROM WATER MAIN THROUGH WATER METER SETTING(S) INCLUDING THE METER BYPASS.

 13. WATER METER VAULT SHALL MEET ALL PLAN REVISIONS AND PERMITS REQUIRED BY CITY OF COLUMBUS DEPARTMENT OF BUILDING AND ZONING SERVICES AND DIVISION OF WATER (PER L-6317A-E)

WATER SERVICE NOTE:

PROPOSED 8" WATER SERVICE TO BE DUCTILE IRON FROM EXISTING 12" WATER MAIN TO 8"x6"x6" TEE.

PROPOSED 6" FIRE SERVICE TO BE DUCTILE IRON FROM 8"x6"x6" TEE TO BUILDING ENTRY.

PROPOSED 3" DOMESTIC SERVICE TO BE DUCTILE IRON FROM 6"x6"x3" TEE TO 3"x4" INCREASER. PROPOSED 4" DOMESTIC SERVICE TO BE C900 FROM 3"x4" INCREASER TO BUILDING ENTRY.

APPROVED FOR GENERAL ARRANGEMENTS ONLY

> DIVISION OF WATER CITY OF COLUMBUS

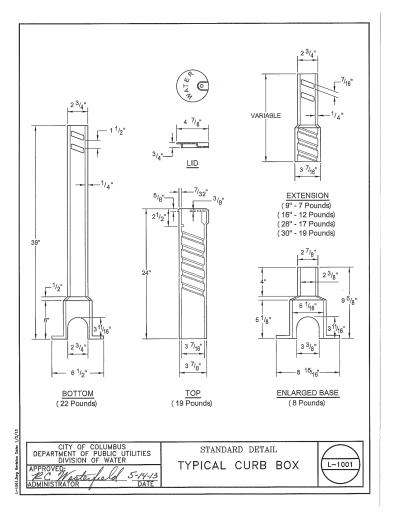
PRIVATE WATER SERVICE PLAN URBAN AIR ADVENTURE PARK 7679-7685 PLAIN CITY-DUBLIN ROAD (SR161)

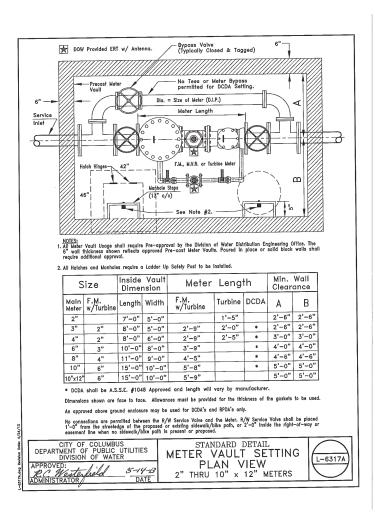
CITY OF COLUMBUS DEPARTMENT OF PUBLIC LITHITIES.

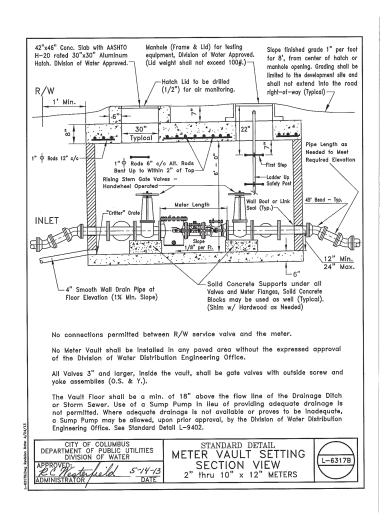
WATER SERVICE PLAN #5945		BODEN, CINO 40004					
				OWNER		DIVISION USE ONLY	
		CONTRACTOR			CC		
SCALE: 1"=20'H SHEET: 1 4	SCALE: 1"_20"H	INSPECTOR		11			
1 –2011	1 -2011	COMPLETED		MENT	AGREEN		
CONTRACT DRAWING NO. RECORD PLAN NO.	CONTRACT DRAWING NO.	ON. DR.	CLD	CKD	RPD		

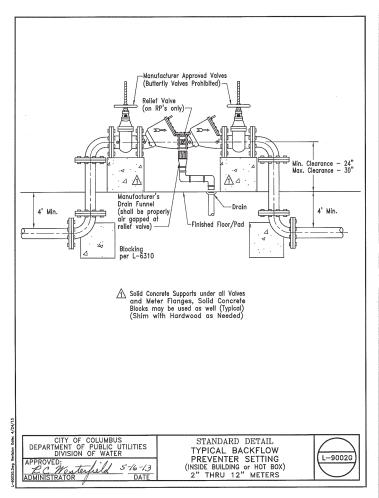
TRENCH BEDDING AND BACKFILL REQUIREMENTS:

- TRENCHES FOR ALL UTILITIES UNDER EXISTING OR PROPOSED WALKS, DRIVES, AND PAVEMENTS SHALL BE BACKFILLED WITH PREMIUM BACKFILL. TRENCHES FOR ALL UTILITIES NOT UNDER EXISTING OR FUTURE PAVEMENTS MAY BE BACKFILLED WITH ON-SITE MATERIALS, HOWEVER, THEY SHALL BE FREE OF ALL DELETERIOUS OR OBJECTIONABLE
- 2. WATERMAIN BEDDING AND COVER SHALL CONSIST OF AGGREGATE NO. 8 WASHED LIMESTONE.
- 3. PREMIUM BACKFILL SHALL CONSIST OF ODOT 304 LIMESTONE. NO SLAG OR LIMESTONE SCREENINGS.
- BACKFILL MATERIALS UNDER EXISTING PAVEMENT SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 98% COMPACTION BY TAMPING IN LAYERS NOT MORE THAN 1 FOOT IN DEPTH.
- 5. ALL TRENCHES WITH TOP OF TRENCH LOCATED WITHIN 5 FEET OF EXISTING OR PROPOSED PAVEMENT SHALL BE BACKFILLED WITH MECHANICALLY COMPACTED PREMIUM (ODOT 304 LIMESTONE).
- 6 ROCKS, HARD PAN, COBBLES, BOULDERS, STONES OR SANDSTONE PARTICLES LARGER THAN 4" SHALL BE REMOVED FROM ROCKS, HARD PAIN, COBSILES, BOULDERS, STONES OR SANUSITONE PARTICLES LARGERT HAIN 4"SHALL BE REMOVED THE THE TRENCH. SHALE CONSISTS PREDOMINATELY OF FINE PARTICLES IS PERMISSIBLE. SHALLE CONTAINING SUFFICIENT AMOUNTS OF LARGE PARTICLES TO MAKE CHECKING OF THE COMPACTION IMPRACTICAL SHALL BE BROKEN DOWN TO MINIMIZE VOIDOS. MECHANICAL METHODS TO BREAKDOWN THE SHALLE SHALL BE ACCOMPLISHED HAT A SHEEPSFOOT ROLLER. WHEN SO ORDERED BY THE ENGINEER, WATER SHALL BE USED TO AID IN BREAKING DOWN THE SHALE.
- 7. THE SURFACE AT THE BOTTOM OF THE TRENCH SHALL BE FREE OF ANY PROTRUSIONS WHICH MAY CAUSE POINT LOADING ON ANY PORTION OF THE PIPE AND SHALL PROVIDE A FIRM, STABLE AND UNIFORM SUPPORT FOR THE PIPE.
- 8 INITIAL BACKELLL OVER THE TOP OF THE PIPE IN USING COMPACTION FOLLIPMENT, AVOID CONTACT WITH THE PIPE AND DO INTIME BACKFILL OVER THE 10P OF THE PIPE IN USING COMPACTION EQUIPMENT, AVOID CONTACT WITH THE PIPE AND ON TO COMPACT DIRECTLY OVER THE PIPE UNTIL SUFFICIENT BACKFILL HAS BEEN PLACED TO AVOID DAMAGES TO THE PIPE LITTLE OR NO TAMPING OF THE INITIAL BACKFILL DIRECTLY OVER AND AROUND THE PIPE TO A POINT IS INCHES ABOVE THE PIPE SHALL BE PERMITTED. FINAL BACKFILL SHALL BE COMPACTED TO AN APPROVED DENSITY DATE OF THE ADJOINING SOIL MATERIALS AND AS STATED ABOVE FOR TRENCHES UNDER EXISTING OR PROPOSED PAVEMENT.









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

OSBORN ENGINEERING

PLANS PREPARED BY

PRIVATE WATER SERVICE PLAN URBAN AIR ADVENTURE PARK

7679-7685 PLAIN CITY-DUBLIN ROAD (SR161)

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER

DODERY, OTHER TOOCH	WATER SERVICE PLAN #5945								
DIVISION USE ONLY	OWNER								
	CONTRACTOR								
	INSPECTOR			SCALE: NTS	SHEET:	1	/ 4		
	AGREE	MENT	COMPLETED		1413		_ ' /	/ +	
	RPD	CKD	CKD CLD CON. DR.		CONTRACT DRAWING NO.	RECORD PLAN NO.			
	' '								

Flange dimension in accordance with AWWA Class D

ES-A-4000SS

Sizes: 21/2" - 10" (65 - 250mm) LEAD FREE

Reduced Pressure Zone Assemblies

Features

- Stainless steel construction provides long term corrosion resistance and maximum strength
 Stainless steel body is half the weight of competitive designs reducing installation & shipping costs
 Short end-to-end dimensions makes retrofit

- Short ensures assembly provides maximum flow at low pressure drop
 No special tools required for servicing
 Compact construction allows for smaller enclosures

NOTICE

The installation of a drain line is recommended. When installing a drain line, an air gap is neces-sary. The 4000SS should be installed with a mini-mum clearance of 12° between lowest point of the assembly and the floor drain or grade.

*The wetted surface of this product contacted by consumable water contains less than (0.25%) of lead by weight.



Series 4000SS Reduced Pressure Zone Assemblies are designed to provide protection of the potable water supply in accordance with national codes. This series can be used when approved by the local authority having jurisdiction on health-hazard cross-connections. Series 4000SS features short by length, lightweight stainless steel body, corrosive resistan

Specifications

AWWA C511-92

Approvals







When installing a drain line or Series 4000SS backflow preventer, use air gap.

1010 864.5 Sizes 21/1"- 107, 057 057 oily

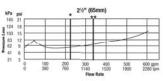
See Literature SS-A-AGEL/TC for additional information.

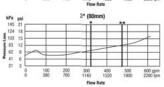
Job Name	Contractor	
Job Location	Approval	9
Engineer	Contractor's P.O. No.	
Approval	Representative	

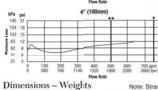
Area product specifications in U.S. customary units and metric are expressional and remainded in reference only. For previous measurements, present contact Areas transport modifications, or materials without prior notice and writtout incurring any obligation to make such changes and modifications not be product events or purposes or publications or publications or materials without prior notice and writtout incurring any obligation to make such changes and modifications on these products events or publications and publications or publications or publications or publications and publications or publications are publications or publications or publications are publications or publications are publications and publications are publications are publications and publications are publications are publications and publications are publications. amesfirewater.com

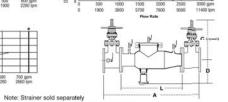
Materials

Capacity story (1996 UL). UL certified flow characteristics.









Flow Rate

8" (200mm)

Pressure — Temperature Temperature Range: 33°F - 110°F (0.5°C - 43°C)

- 01						MINISTANIA								HET WESTERS				
		A.		C (DSY)		C(NRS)		D		- 3		L		m/Gates		w/o Gates		
p.	mm	in.	mm	in.	mm	it	mm	åτ	mm	in.	mm	in.	mm	D.	kg.	ab.	Ag	
21/2	65	37	940	16%	416	9%	238	10%	267	7	178	22	559	148	67	60	27	
3	80	38	965	18%	479	101/4	260	101/2	267	7%	191	22	559	226	103	62	28	
4	100	40	1016	22%	578	12 ³ /16	310	10%	267	9	229	22	559	235	107	65	30	
6	150	481/2	1232	30%	765	16	406	111/2	292	11	279	271/2	699	380	172	110	50	
8	200	52%	1334	37%	959	19 ¹⁵ /16	506	121/2	318	13%	343	291/2	749	571	259	179	81	
10	250	551/5	1410	45%	1162	2313/16	605	121/2	318	16	406	291/2	749	773	351	189	86	
							Norv	f [®] is a r	egister	ed trac	femark	of Ge	nerai E	Jectric	Come	any		



NOTICE

© 2014 Ames Fire & Waterworks

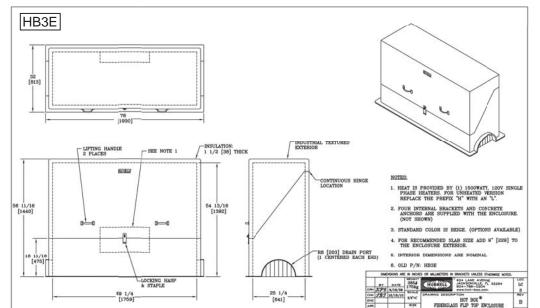
SHEET 1 OF 1 H7026070055

ES-A-4000SS 1410

St	Œ					DIMENSIONS								NET WEIGHT				
		A.		C (DSY)		C(NRS)		D		F		L.		m/Gates		w/o Gates		
pt.	mn	in.	mm	in.	mm	in.	mm	åπ	2000	in.	mm	in.	mm	D.	kg.	ib.	Ag.	
21/2	65	37	940	16%	416	9%	238	10%	267	7	178	22	539	148	67	60	27	
3	80	38	965	18%	479	101/4	260	101/2	267	7%	191	22	559	226	103	62	28	
4	100	40	1016	22%	578	12 ³ /H	310	10%	267	9	229	22	559	235	107	65	30	
6	150	481/2	1232	30%	765	16	406	111/2	292	11	279	271/2	699	380	172	110	50	
В	200	52%	1334	37%	959	19 ¹⁵ /16	506	121/2	318	13%	343	29%	749	571	259	179	81	



ing authorities for local installation



Series 5000SS



The SilverBullet™ Series 5000SS Reduced Pressure Detector Assemblies are designed to protect drinking water supplies from dangerous cross-connecti in accordance with national plumbing codes and water authority requirement for non-potable service applications such as irrigation, freline, or industrial processing. Used in health hazard applications.

A Reduced Pressure Detector Assembly shall be installed at each cross-

Approval

Contractor's P.O. No.

Reduced Pressure Detector Assemblies

Features

- Stainless steel construction provides long stainless steel construction provides long and maximum strength Stainless steel body is light weight reducing installation and shipping costs Short end to end dimensions makes retrofit easy Bottom mounted relief valve reduces clearance requirements when installed against an outside year incides maximum to stainless the stainless stainless than the stainless stainless than the stainless against an outside year incides maximum to stainless than the stainless the stainless than the stainless th

- against an outside wall

 Cam-check valves provides maximum
 flow at low pressure drop

 No special tools required for servicing
 Compact construction allows forsmaller
 enclosures

 Stainless steel relief valve features a
 balanced rolling diaphragm to
 eliminate sliding seals and lower
 maintenance costs
 Detects underground leaks and
 unauthorized water use.

 GPM or CFM meter available

Available Models

Available ...

Suffix:

LG - less gates
OSY - ULFM outside stern and yoke resilient seated gate valves

OSY FxG - flanged inlet gate connection and grooved outlet gate connection.

*OSY GxF - grooved inlet gate connection and flanged outlet gate

*OSY GxG – grooved inlet gate connection and grooved outlet gate

Available with grooved NRS gate valves -

A Reduced Pressure Detector Assembly shall be installed at each crossconnection to prevent backsiphonage and backpressure of hazardous materials
into the potable water supply. The assembly shall consist of a pressure differential
relief valve located in a zone between two positive seating cam-check valves.
The main valve body shall be manufactured from 300 Series stainless steel for
corrosion resistance. The cam-check valves shall be of thermoplastic construction
with stainless steel hinge pins, cam arm, and cam bearing. The cam-check valve
shall utilize a single torsion spring design to minimize pressure drop through the
assembly. The cam-check valves shall be modular and shall seal to the main
valve body by the use of an O-ring. There shall be no brass or bronze parts used
within the cam-check assembly or relief valve. The use of seat screws to retain
the check valve seat is prohibited. All internal parts shall be accessible through a
single cover on the valve assembly screenly held in place past successible through a
single cover on the valve assembly screenly held in place by a two-bott grooved
coupling. The differential relief valve shall be of stainless steel construction
and shall utilize a rolling diaphragm and no sliding seals. The relief valve shall
be bottom mounted and supplied with a steel reinforced sensing hose. The
assembly shall include two resilient shutoff valves and four ball type test cocks
and a hydraulically balanced by-bass line. The broass line shall include a metir
reduced pressure zone assembly of solidation which The bypass
reduced pressure assembly shall have a single botted on cover and by pourtage
test cocks. The assembly shall be an Ames Company Series 5000SS. Consult factory*
Post indicator plate and operating nut available – consult factory*
Consult factory for dimensions

NOTIGE The installation of a drain line is recommended. When installing a drain line, an air gap is necessary.

Job Location

Approval ___

ES-A-5000SS

· All internal metal parts: 300 Series stainless steel Check assembly: Noryl[®]

Materials

Main valve body: 300 Saries stainless steel

gattaettes

Dimensions — Weights

Standards Flange dimension in accordance with AWWA Class D

Approvals



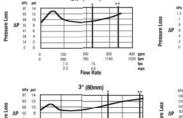
1047 B64.5

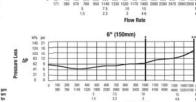
Pressure — Temperature Temperature Range: 33°F - 110°F (0.5°C - 43°C)

Noryl® is a registered trademark of General Electric Company



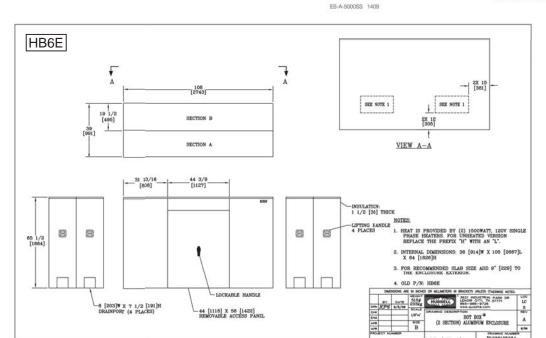








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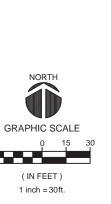
PRIVATE WATER SERVICE PLAN

PROJECT TITLE:

EASEMENT REFERENCE REVISIONS PLANS PREPARED BY COUNTY RECORDER VOL. PAGE **OSBORN** ENGINEERING

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES URBAN AIR ADVENTURE PARK DIVISION OF WATER 7679-7685 PLAIN CITY-DUBLIN ROAD (SR161) WATER SERVICE PLAN #5945 DIVISION USE ONLY CONTRACTOR INSPECTOR 3 4 GREEMENT RPD CKD CLD CON. DR. RECORD PLAN NO.

PHASE 1 DOMESTIC SERVICE PROFILE PHASE 1 FIRE SERVICE PROFILE 955 ABOVE GROUND HOTBOX 4" CHECK VALVE (HB6E OR APPROVED EQUAL) W/ (SEE SHEET 3 FOR DETAIL) BACKFLOW PREVENTER 950 (AMES 5000SS OR APPROVED EQUAL) 3" VALVE -FOR 6" FS (SEE SHEET 3 FOR DETAIL) PR GRADE PR 18" STM 945 PR 18" STM 940 → 3" 90° BEND (DIP) 6"x6"x3" TEE (DIP) - 6" WS (DIP) 6"x6"x3" TEE (DIP) 6" FS (DIP) TO FDC 3" DS (DIP) LOWER 6" WS WITH (SEE SHEET 1 FOR ROUTE) LOWER 6" WS WITH (4) 45° BENDS TO PROVIDE 18" 6" FS (DIP) -(4) 45° BENDS TO PROVIDE 18" 935 CLEARANCE CLEARANCE - 6" TAPPING SLEEVE - 6" TAPPING SLEEVE LINDER STORM & VALVE (DIP) @ EX 12" WM (CONTRACTOR TO FIELD & VALVE (DIP) @ EX 12" WM (CONTRACTOR TO FIELD VERIFY EX 12" WM DEPTH) VERIFY EX 12" WM DEPTH) 930 925 -0+10 0+00 0+10 0+20 0+30 0+400+50 0+60 0+70 0+80 0+90 1+00 1+10 -0+10 0+00 0+10 0+20 0+30 0+400+50 0+60 0+70 0+80 0+90 1+00 1+10 PHASE 2 DOMESTIC SERVICE PROFILE PHASE 2 FIRE SERVICE PROFILE ABOVE GROUND HOTBOX - BACKFLOW (HB3E OR APPROVED EQUAL) W/ (SEE SHEET 3 FOR DETAIL) PREVENTER (AMES 4000SS OR ABOVE GROUND HOTBOX APPROVED EQUAL) (HB6E OR APPROVED EQUAL) W/ (SEE SHEET 3 FOR DETAIL) FOR 3" DS 3" DS METER VAULT PER 955 (SEE SHEET 3 FOR DETAIL) CITY OF COLUMBUS STANDARDS (SEE SHEET 3 FOR DETAIL) 4" CHECK VALVE BACKFLOW PREVENTER (AMES 5000SS OR APPROVED EQUAL) FOR 6" FS (SEE SHEET 3 FOR DETAIL) 950 3" VALVE 4" UNDERDRAIN @ 1.0% MIN SLOPE PR GRADE PR GRADE PR GRADE EX GROUND 940 4" LINDERDRAIN 3" DS (DIP) VERTICAL SCALE 6" WS (DIP) L 6" FS (DIP) @ 1.0% MIN SLOPE 4" DS (C900) 6" FS (DIP) -3"x4" INCREASER (DIP) 6" FS (DIP) TO FDC TO YD2 2.5 - 4" 90° BEND (C900) (SEE SHEET 1 FOR ROUTE) 3" 90° BEND (DIP) LOWER 6" WS WITH (4) 45° BENDS TO PROVIDE 4' - LOWER 6" WS WITH (4) 45° BENDS TO PROVIDE 4' L 6" WS (DIP) 935 - 6" WS (DIP) 935 - 6" TAPPING SLEEVE 6" TAPPING SLEEVE (IN FEET) & VALVE (DIP) @ EX 12" WM & VALVE (DIP) @ EX 12" WM CLEARANCE CLEARANCE 1 inch = 5 ft. (CONTRACTOR TO FIELD VERIFY EX 12" WM DEPTH) (CONTRACTOR TO FIELD VERIFY EX 12" WM DEPTH) 930 930 HORIZONTAL SCALE (IN FEET) 0+10 0+30 1+10 1+20 0+40 0+90 1+00 1+20 1 inch = 10ft. EASEMENT REFERENCE REVISIONS PLANS PREPARED BY PROJECT TITLE: PRIVATE WATER SERVICE PLAN CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER COUNTY RECORDER URBAN AIR ADVENTURE PARK VOL. PAGE 7679-7685 PLAIN CITY-DUBLIN ROAD (SR161) WATER SERVICE PLAN #5945 **OSBORN** DIVISION USE ONLY ENGINEERING CONTRACTOR INSPECTOR SCALE: 1"=10'H 4 1"=5'V RPD CKD CLD CON. DR. CONTRACT DRAWING NO





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OSBORN

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URBAN AIR

7679-7685 PLAIN CITY-DUBLIN ROAD | DUBLIN, OH 43064 |

STATUS:

PROJECT NUMBER:

2016.223

23 MARCH 2018

TRUCK EXHIBIT

architect

B-A

PHASE 1



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90 West Third Avenue | Columbus, OH 4321

URBAN AIR

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PROJECT NUMBER:

2016.223

SF

DATE:

23 MARCH 2018

architect

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SHEET NAME:
TRUCK EXHIBIT

PHASE 2
SHEET NUMBER:

TT-2

GRAPHIC SCALE

0 15 30

(IN FEET)
1 inch = 30ft.