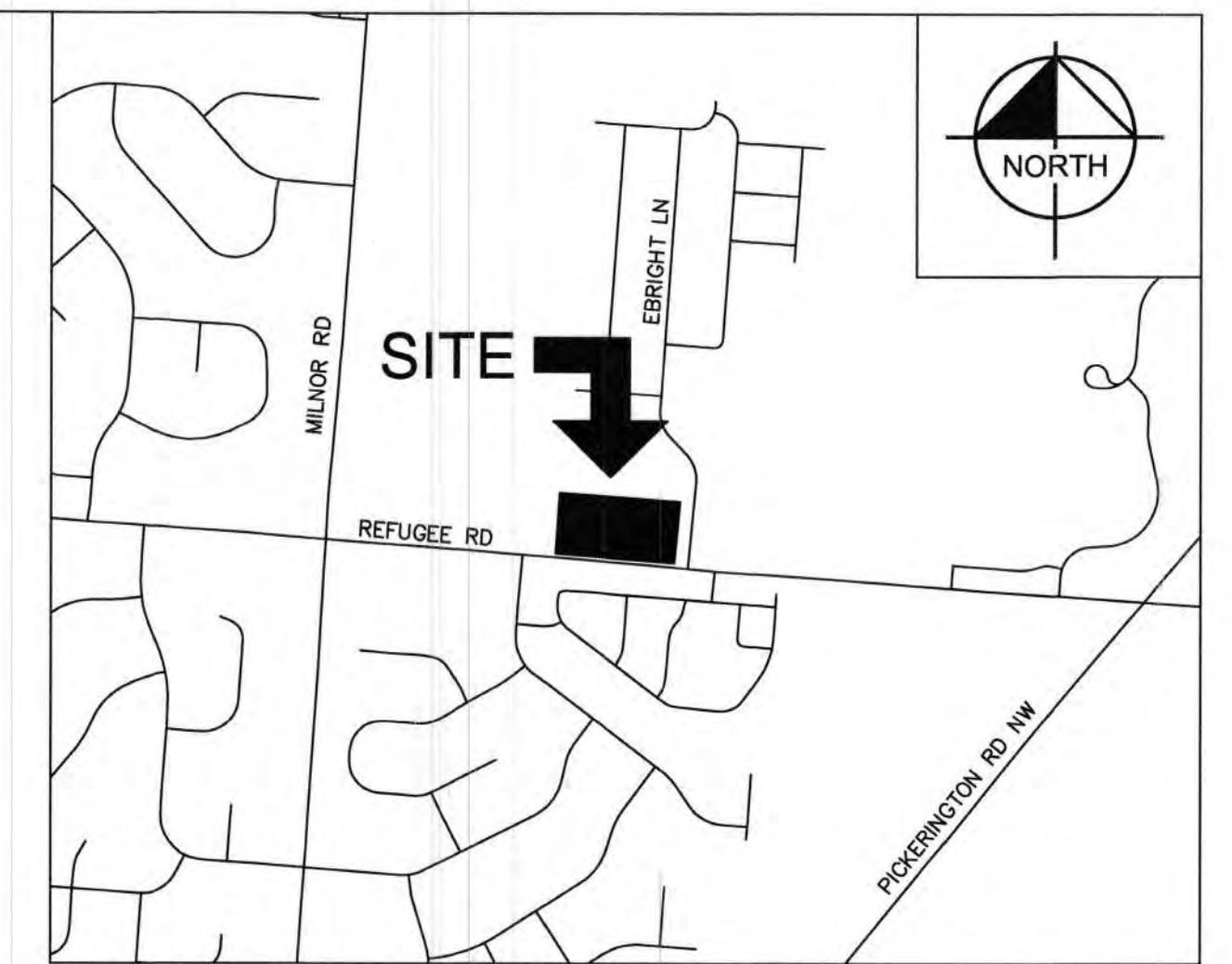


CITY OF PICKERINGTON PRIVATE SITE IMPROVEMENT PLAN SHOPS AT EBRIGHT



VICINITY MAP
SCALE: 1"=1000'

THE SIGNATURES BELOW SIGNIFY CONCURRENCE WITH THE GENERAL PURPOSE OF THIS PROJECT. ALL TECHNICAL DETAILS ARE THE RESPONSIBILITY OF THE DEVELOPER AND/OR ENGINEER.

Valerie J. Lynn 4-2-22
CITY ENGINEER DATE

D.S. Rebo 3/29/22
SERVICE DIRECTOR DATE

Gregory C. Butcher 3/28/22
CITY MANAGER DATE

Tommy G. Vogel P.E. 3-22-22
FAIRFIELD COUNTY UTILITIES DATE

CITY COUNCIL:
CRYSTAL HICKS - COUNCIL PRESIDENT
JACLYN ROHALY - COUNCIL VICE PRESIDENT
TRICIA SANDERS - COUNCILPERSON
BRIAN WISNIEWSKI - COUNCILPERSON
NICK DERKSEN - COUNCILPERSON
BOB MCCrackEN - COUNCILPERSON
KEVIN KEMPER - COUNCILPERSON

BENCHMARKS (NAVD 88)
BENCHMARK #1
CHISELED "X" ON NORTH RIM OF AT&T MANHOLE ELEV.=926.92'

REFERENCE
THE BEARINGS SHOWN ON THIS PLAT ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD83 (2011). SAID BEARINGS ORIGINATED FROM A FIELD TRAVERSE WHICH WAS REFERENCED TO SAID COORDINATE SYSTEM BY GPS OBSERVATIONS AND OBSERVATIONS OF SELECTED STATIONS IN THE OHIO DEPARTMENT OF TRANSPORTATION VIRTUAL REFERENCE STATION NETWORK. THE PORTION OF THE SOUTH RIGHT OF WAY LINE OF REFUGEE RD., HAVING A BEARING OF N 85°32'43" W AND MONUMENTED AS SHOWN HEREON, IS DESIGNATED THE 'BASIS OF BEARING' FOR THIS PLAT.

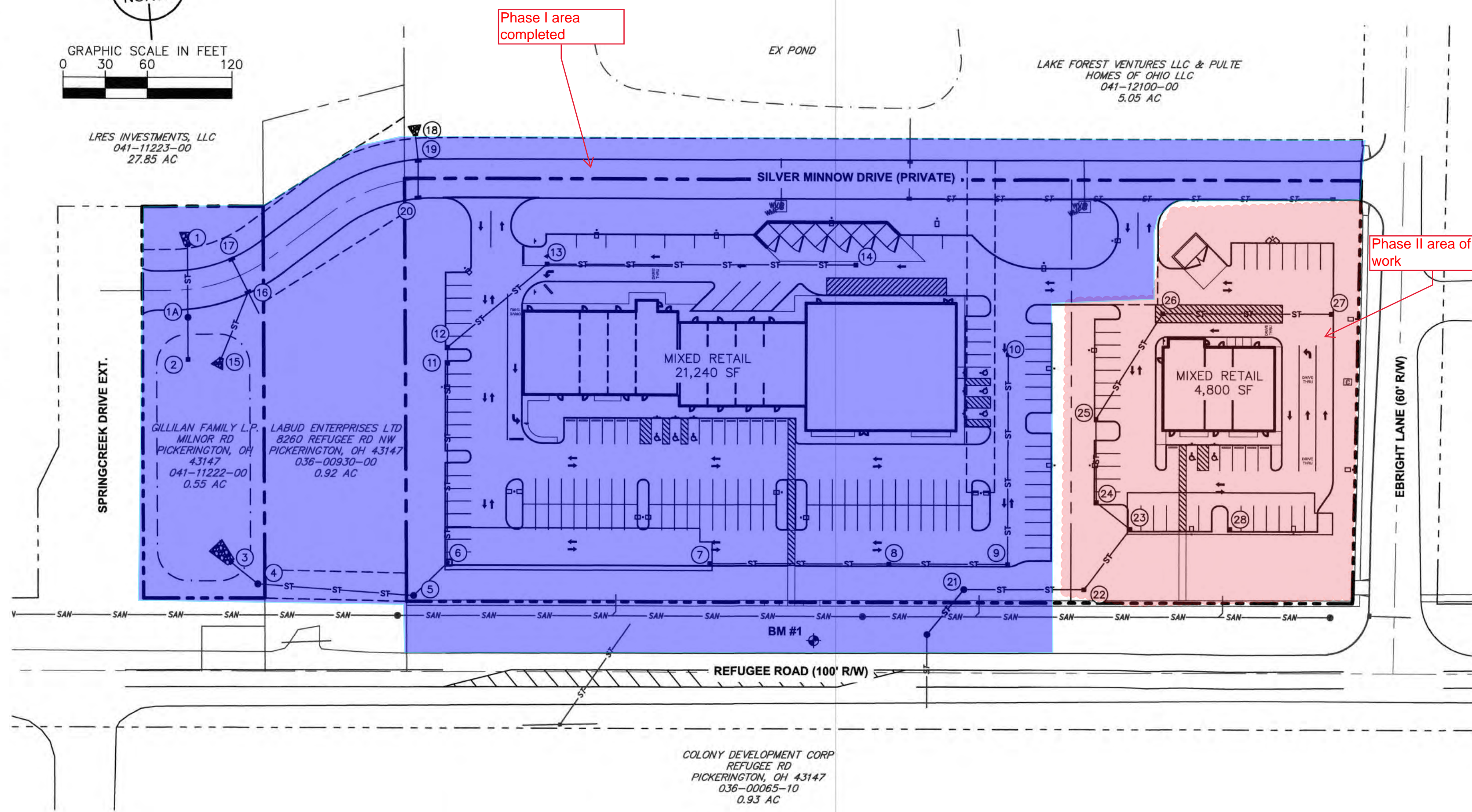
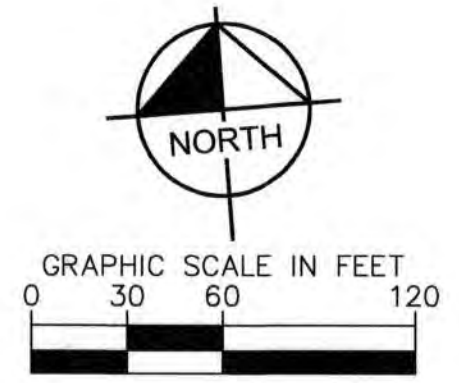
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DEVELOPER
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CONTACT: JERRY LEE

SURVEYOR
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7509 E MAIN ST., SUITE 104
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CONTACT: RAYMOND WOOD
(614) 794-7080

LAND OWNERS
SYCAMORE CREEK CHURCH
8100 REFUGEE RD
PICKERINGTON, OH 43147
LAKE FOREST VENTURES LLC
250 OLD WILSON BRIDGE RD, SUITE 140
WORTHINGTON, OH 43085
GILLIAN FAMILY LIMITED PARTNERSHIP
6141 MCNAUGHTEN GROVE LN
COLUMBUS, OH 43213

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INDEX MAP
SCALE: 1"=60'

STANDARD CONSTRUCTION DRAWINGS	
CITY OF COLUMBUS	
AA-S102	AA-S139
AA-S104	AA-S141
AA-S116	AA-S168
AA-S125A	
AA-S128	
AA-S129	
AA-S133A	
AA-S133B	

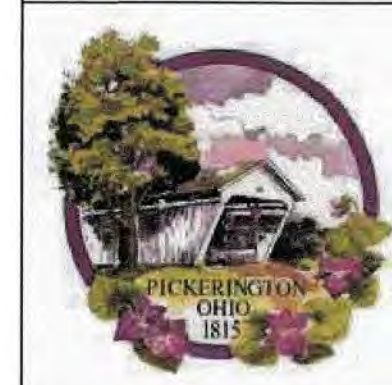
THE STANDARD DRAWINGS LISTED ABOVE SHALL BE CONSIDERED A PART OF THESE DRAWINGS.

SITE DATA TABLE	
SITE AREA:	4.65 AC (202,536 SF)
TAX ID(S):	0411209700, 0411209800, 0411209900
DISTURBED AREA:	4.26 AC (185,485 SF)
PRE-CONSTRUCTION IMPERVIOUS AREA:	0.00 AC
POST-CONSTRUCTION IMPERVIOUS AREA:	3.22 AC (140,291 SF)



AS

ENGINEER SIGNATURE DATE 2/24/2022



ISSUE	DATE	DESCRIPTION	PROJECT NUMBER
			190115000

Kimley»Horn
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7965 N HIGH STREET, SUITE 200
COLUMBUS, OH 43235
PHONE: 614-454-6897
WWW.KIMLEY-HORN.COM

SHOPS AT EBRIGHT
8140, 8180, 8220 REFUGEE ROAD
PICKERINGTON, OHIO 43147

COVER SHEET

FILENAME	C000	SHEET
SCALE	AS SHOWN	1 OF 27

GENERAL NOTES

SPECIFICATIONS: THE REQUIREMENTS OF THE CITY OF PICKERINGTON, TOGETHER WITH THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS, LATEST EDITION, INCLUDING ALL SUPPLEMENTS THERETO IN FORCE ON DATE ON CONTRACT SHALL GOVERN ALL MATERIALS AND WORKSMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS. EXCEPT AS SHOWN SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

STANDARD CONSTRUCTION DRAWINGS: ALL PERTINENT STANDARD CONSTRUCTION DRAWINGS ARE AVAILABLE UPON REQUEST FROM THE CITY ENGINEERING AND SERVICE DEPARTMENTS.
MANUFACTURER: ALL MANUFACTURED MATERIALS SHALL BE MADE IN THE USA OR AS APPROVED BY THE CITY ENGINEER.

CONTRACTOR RESPONSIBILITY: THE CITY WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FAILURE OF THE CONTRACTOR TO PERMIT WORK ACCORDING TO CONTRACT DOCUMENTS.

SAFETY REQUIREMENTS: THE CONTRACTOR AND SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL AMENDMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

PERMITS: PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, AND FLOODPLAIN PERMITS. THE CONTRACTOR MUST ALSO HAVE IN THEIR POSSESSION AN APPROVED AND SIGNED SET OF CONSTRUCTION DRAWINGS.

EASEMENTS: APPROVAL OF THESE PLANS IS CONTINGENT UPON THE RECORDING OF ALL EASEMENTS REQUIRED FOR CONSTRUCTION OF THE WORK BEING SECURED AND RECORDED PRIOR TO COMMENCEMENT OF WORK AND NO WORK WHICH REQUIRES AN EASEMENT SHALL BE ALLOWED TO PROCEED UNTIL THIS IS COMPLETED.

PRE-CONSTRUCTION MEETING: A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO THE COMMENCEMENT OF WORK FOR THIS IMPROVEMENT AT THE CITY OF PICKERINGTON, OHIO. THE CONTRACTOR SHALL SUBMIT A TENTATIVE WORK SCHEDULE AND A TEMPORARY EROSION CONTROL PLAN TO THE ENGINEER AT THE TIME OF THE PRE-CONSTRUCTION MEETING. THIS SCHEDULE WILL DETAIL THE TIMING OF THE WORK ACTIVITIES FOR THE VARIOUS ASPECTS OF THE PROJECT IMPROVEMENTS.

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

SITE VISIT: THE CONTRACTOR SHALL PERFORM FIELD RECONNAISSANCE TO BECOME ACQUAINTED WITH THE EXISTING SITE CONDITIONS AND THE POTENTIAL EFFECTS UPON THE SCOPE OF WORK.

RECYCLED MATERIALS: THE USE OF RECYCLED MATERIALS, SUCH AS RECYCLED 304, IS NOT ALLOWED.

HANDICAP RAMPS: HANDICAP RAMPS AND SIDEWALKS SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990, INCLUDING ALL SUPPLEMENTS AND IN ACCORDANCE WITH THE CITY OF COLUMBUS STANDARD DRAWINGS DATED JANUARY 1, 2007, INCLUDING ALL SUPPLEMENTS OR REPLACEMENT DRAWINGS ISSUED THERETO. SIDEWALKS SHALL BE CONSTRUCTED WITH A CROSS SLOPE NOT TO EXCEED 2.0% HANDICAP RAMPS AND TRANSITION SIDEWALKS SHALL BE CONSTRUCTED IN CONJUNCTION WITH CURB AND STREETS AND AUDIBLE WARNING DEVICES ARE REQUIRED AT EACH RAMP LOCATION.

CROSSWALKS: CROSSWALK CROSS SLOPES SHALL BE NO MORE THAN 2.0% ALL CROSSWALK LINES AND STOP BARS SHALL BE THERMOPLASTIC PAINT, CITY OF COLUMBUS ITEM 644. THERE SHALL BE NO CONFLICTS WITH CROSSWALKS OR HANDICAP RAMPS AND OTHER STRUCTURES SUCH AS VALVE BOXES, CURB INLETS, CATCH BASINS, SIGNS, OR LIGHT POSTS.

EXISTING PAVEMENT: PAVEMENT SHALL BE CUT IN NEAT, STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER.

HEAT WELDING: CONTRACTOR SHALL HEAT WELD, PER CITY OF COLUMBUS SUPPLEMENTAL SPECIFICATION 1541, ALL COLD JOINTS IN RELATION TO THIS PROJECT.

FIELD TILE: ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ORIGINAL CONDITION OR CONNECTED TO EITHER THE CURB SUBDRAIN OR TO THE STORM SEWER SYSTEM AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

FUEL STORAGE: ANY FUEL STORAGE CONTAINER ON SITE SHALL INCLUDE A SECONDARY CONTAINMENT DEVICE. EARTH MOUNDING IS NOT ADEQUATE. DO NOT LOCATE FUEL STORAGE IN CLOSE PROXIMITY TO WATER OR IN AREAS SUSCEPTIBLE TO HIGH WATER.

WATER WITHDRAWAL REGISTRATION: THE OHIO DEPARTMENT OF NATURAL RESOURCES REQUIRES A WATER REGISTRATION WHERE SURFACE OR GROUNDWATER IS WITHDRAWN AT A RATE GREATER THAN 100,000 GALLONS PER DAY. THE CONTRACTOR WILL BE REQUIRED TO APPLY FOR AND SUBMIT THE REQUIRED FORM.

DEWATERING PLAN: IF DEWATERING IS PLANNED FOR INSTALLATION OF UTILITIES, CONTRACTOR SHALL PROVIDE THE CITY WITH A DEWATERING PLAN. COMMENCEMENT OF ANY CONSTRUCTION INVOLVING DEWATERING ACTIVITIES SHALL NOT BEGIN WITHOUT CITY APPROVAL.

SURPLUS EXCAVATION: ALL SURPLUS EXCAVATION SHALL BE DISPOSED OFF-SITE IF NOT IDENTIFIED ON THE GRADING PLAN. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-year floodplain) IS NOT PERMITTED.

UNAUTHORIZED STREET EXCAVATION: IN THE EVENT EXCAVATION FOR THE STREET IS FROM 0' TO 6" BELOW THAT CALLED FOR ON THE PLANS, THE CONTRACTOR SHALL REPLACE THIS EXCESS EXCAVATED MATERIAL WITH COMPACTED 304 CRUSHED LIMESTONE AGGREGATE AS DIRECTED AND AT NO EXTRA COST TO THE OWNER OR ENGINEER.

DUST CONTROL: DUST GENERATED FROM THE PROJECT MUST BE CONTROLLED AT ALL TIMES. THE CONTRACTOR SHALL APPLY WATER OR DUST PALLIATIVE ON DISTURBED AREAS DURING CONSTRUCTION TO ALLEVIATE OR PREVENT DUST NUISANCE PER CITY OF COLUMBUS ITEM 616. DUST PALLIATIVE SHALL CONSIST OF CLEAN CALCIUM CHLORIDE MEETING THE REQUIREMENTS OF CITY OF COLUMBUS ITEM 712.02. THE WATER OR CALCIUM CHLORIDE SHALL BE SPRAYED UNIFORMLY OVER THE SURFACE OF THE DISTURBED AREA.

BENCHMARKS: THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE. RESETTling THE MARKERS SHALL BE PERFORMED BY A LICENSED OHIO PROFESSIONAL SURVEYOR AT THE CONTRACTOR'S EXPENSE.

NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

TRACKING OR SPILLING MUD, DIRT, OR DEBRIS UPON THE STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS, OR BIKE PATHS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY OF PICKERINGTON RESERVES THE RIGHT TO REMOVE THE MATERIAL AND TO CLEAN ANY AFFECTED AREAS, THE COST OF WHICH SHALL BE PAID BY THE CONTRACTOR / DEVELOPER.

SANITARY FACILITIES: THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKMEN AND INSPECTORS FOR THE DURATION OF THE WORK.

STORAGE OF EQUIPMENT AND MATERIALS: NO MATERIALS, INCLUDING PIPE, SHALL BE STORED WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN ONE HUNDRED (100) FEET OF ANY INTERSECTING STREET OR NON-WORKING CURB. STORAGE OF EQUIPMENT SHALL COMPLY WITH THESE SAME REQUIREMENTS. COMPLIANCE WITH THESE REQUIREMENTS ALONG WITH ADDITIONAL PROVISIONS OF THE CONTRACT SPECIFICATIONS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS LEGAL RESPONSIBILITIES FOR THE SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL INDICATE HIS INTENT WITH REGARD TO STORAGE OF MATERIAL AT THE PRECONSTRUCTION MEETING.

CLEARING & PRESERVATION: CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXISTING TREES PRESERVATION AS INDICATED ON THE GRADING PLAN. THE LIMITS OF THE CLEARING / PRESERVATION ARE TO BE ESTABLISHED PRIOR TO THE START OF CONSTRUCTION.

TREES: IT IS THE INTENTION OF THE CITY TO PRESERVE AS MANY TREES AS POSSIBLE DURING CONSTRUCTION OF THIS PROJECT. THEREFORE, THE CONTRACTOR SHALL KEEP DISRUPTION TO AN ABSOLUTE MINIMUM. THE CITY RESERVES THE RIGHT TO MARK SPECIFIC TREES, SAPLINGS, AND / OR TURF AREAS FOR COMPLETE PROTECTION AND PRESERVATION BY THE CONTRACTOR. THE OPERATION OF ALL EQUIPMENT, PARTICULARLY WHEN EMPLOYING BOOMS, THE STORAGE OF MATERIAL, AND THE DEPOSITION OF EXCAVATION SHALL BE CONDUCTED IN A MANNER THAT WILL NOT INJURE TREES, TRUNKS, BRANCHES, OR THEIR ROOTS.

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 SIX INCHES OR GREATER AT THE DBH (DIAMETER BRESTH HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR FIFTEEN (15) FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE CITY.

IF TREE REMOVAL IS REQUIRED, THE CONTRACTOR SHALL WORK WITH STAFF FROM THE CITY ON ALL TREE REMOVALS. REMOVAL OF STUMPS SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS. TREES ENCOUNTERED DURING CONSTRUCTION OUTSIDE THE RIGHT-OF-WAY LIMITS SHALL BE REMOVED ONLY WHEN NECESSARY AND COST OF IT SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

RESTORATION: THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADE AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE OWNER OR CITY ENGINEER. THE CONTRACTOR SHALL PAY FOR THE COST OF THIS WORK.

LANDSCAPE MAINTENANCE: THE CONTRACTOR SHALL WATER AND MAINTAIN TREES, PLANTS, AND SHRUBS PLANTED UNDER THIS CONTRACT FOR A PROJECT WARRANTY PERIOD OF ONE YEAR FOLLOWING THE FINAL LANDSCAPE ACCEPTANCE DATE. MAINTENANCE SHALL INCLUDE CULTIVATING, WEEDING, WATERING, AND THE APPLICATION OF APPROPRIATE INSECTICIDES AND FUNGICIDES NECESSARY TO MAINTAIN PLANTS FREE OF INSECTS AND DISEASE. TREE, PLANTS, SHRUBS, AND GROUND COVER BEDS SHALL BE ADEQUATELY WATERED ONCE A WEEK FOR THE FIRST SIX WEEKS OF THE WARRANTY PERIOD AND THEN ONCE EVERY TWO WEEKS FOR THE REMAINDER OF THE ONE-YEAR WARRANTY PERIOD EXCEPT DURING WINTER, WHERE TOTAL RAINFALL IS LESS THAN ONE INCH (1.0") FOR 10 CONSECUTIVE DAYS, CONTRACTOR SHALL ADEQUATELY WATER A MINIMUM OF TWO WEEKS FOR PLANTS, SHRUBS, AND GROUND COVER BEDS AND A MINIMUM OF ONCE A WEEK FOR TREES UNTIL RAINFALL EXCEEDS ONE INCH (1.0") IN 10 CONSECUTIVE DAYS. FERTILIZE TREES, SHRUBS, AND PERENNIALS IN THE EARLY SPRING UP TO EARLY JUNE WITH A WATER-SOLUBLE FERTILIZER ACCORDING TO ACCEPTED LANDSCAPE INDUSTRY STANDARDS. THIS ITEM SHALL BE PAID FOR AS A LUMP SUM UNIT PRICE UNDER THE ITEM SPECIAL - TREES, PLANTS, AND SHRUB MAINTENANCE.

GRASS SEED: GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH THE ASSOCIATION OF OFFICIAL SEED ANALYSTS' RULES FOR TESTING SEEDS FOR PURITY AND GERMINATION TOLERANCES. GRASS SEED SHALL BE FURNISHED FROM A GRASS SEED DEALER OR GROWER WHOSE BRANDS ARE GRADES REGISTERED OR LICENSED BY THE STATE OF OHIO, DEPARTMENT OF AGRICULTURE OR FROM THE APPROVED LIST OF GRASS SEED DEALERS OR GROWERS ON FILE WITH THE DEPARTMENT. SEED OLDER THAT ONE (1) YEAR WILL NOT BE ACCEPTABLE.

GRASS SEED MIXTURE: PROVIDE SEED OF GRASS SPECIES AND VARIETIES, PROPORTIONS BY WEIGHT, AND MINIMUM PERCENTAGES OF PURITY, GERMINATION AND MAXIMUM PERCENTAGE OF WEED SEED AS INDICATED IN SUBMITTALS SECTION DESCRIBED ABOVE.

A) SEED MIXTURE IS TO CONTAIN:
40% TITIAN TALL FESCUE
40% TARHEEL TALL FESCUE
10% DENIM KENTUCKY BLUEGRASS
10% RENAISSANCE PERENNIAL RYE GRASS

B) APPLY AT 8 LBS. PER 1,000 SQUARE FEET.

SUBMIT CERTIFICATION FROM SEED SUPPLIER FOR ACCEPTANCE PRIOR TO PLACING ORDER. ALSO PROVIDE SPECIFICATION FOR MULCH AS PROVIDED BY SUPPLIER.

FERTILIZER: COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER, CONSISTING OF FAST AND SLOW RELEASE NITROGEN, 50% DERIVED FROM NATURAL ORGANIC SOURCES OF UREA-FORM, PHOSPHOROUS, AND POTASSIUM.

A) COMPOSITION: 13% NITROGEN, 26% PHOSPHOROUS, AND 12% POTASSIUM BY WEIGHT, OR IN AMOUNTS RECOMMENDED IN SOIL REPORTS FROM TESTING AGENCY. APPLY AT 6 LBS. PER 1,000 SQUARE FEET.

SOIL STOCKPILES: IF STOCKPILED SOILS ARE TO BE USED FOR FUTURE PLACEMENT ON THE SITE, THE FOLLOWING REQUIREMENTS ARE TO BE FOLLOWED: PROTECT THE STOCKPILE FROM EROSION BY INSTALLING A PERIMETER SILT FENCE. THIS SILT FENCE MUST BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT. SIDE SLOPES ARE TO BE NO GREATER THAN 3:1. THE STOCKPILE IS TO BE GRADED SMOOTH AND THE SOILS STABILIZED WITH SEED AND MULCH. THE LOCATION OF THIS STOCKPILE IS TO BE SHOWN ON THE APPROVED DRAWINGS. IF THE STOCKPILE LOCATION IS NOT INDICATED ON THE DRAWINGS, THE STOCKPILING OF SOILS WILL NOT BE PERMITTED. IF EXCESS SOILS ARE PRESENT, THEY MUST BE HAULED FROM THE SITE BEFORE FINAL ACCEPTANCE BY THE CITY OF PICKERINGTON. A COPY OF THE WRITTEN AGREEMENT BETWEEN THE CONTRACTOR AND THE OWNER OF THE FACILITY RECEIVING THE EXCESS SOILS MUST BE PRESENTED TO THE CITY BEFORE THE SOILS ARE EXPORTED.

DRIVEWAY REPLACEMENT: WHEN A TRENCH ACROSS A DRIVEWAY IS LOCATED WITHIN OR NEAR THE RIGHT-OF-WAY, ASPHALT DRIVES SHALL BE REPLACED FROM THE FURTHEST EDGE OF THE TRENCH TO THE EDGE OF THE ROAD PAVEMENT OR TO THE CONCRETE DRIVE APRON, IF ONE EXISTS. CONCRETE DRIVES SHALL BE REPLACED BETWEEN NEAREST ADJACENT JOINTS IF JOINTS ARE WITHIN 4 FEET OF A TRENCH EDGE. ALL DRIVEWAYS DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. METHODS AND PAYMENT FOR DRIVEWAY REPLACEMENT AND FOR ALL WORK NECESSARY TO RESTORE DRIVEWAYS TO THEIR ORIGINAL CONDITION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

RECORD DRAWINGS: FOLLOWING THE COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS, A PROF SURVEY SHALL BE PROVIDED TO THE CITY ENGINEERING DEPARTMENT THAT DOCUMENTS AS-BUILT ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS FOR ALL ELEMENTS OF THIS PROJECT. THE PROF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE FIRM WHOSE PROFESSIONAL ENGINEER SEALED THE CONSTRUCTION DRAWINGS. A COPY OF THE SPECIFIC CRITERIA REQUIRED FOR THE COMPLETION OF THE RECORD DRAWINGS IS AVAILABLE FROM THE CITY ENGINEERING DEPARTMENT.

TRAFFIC CONTROL NOTES

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS', CURRENT EDITION. COPIES ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 1980 WEST BROAD STREET, COLUMBUS, OHIO, 43223.

ALL TRAFFIC LANES SHALL BE FULLY OPEN FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. ONE LANE MAY BE CLOSED TO TRAFFIC DURING WORKING HOURS.

STEADY BURNING TYPE 'C' LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC DEVICES IN USE AT NIGHT. CONES ARE NOT PERMITTED TO BE USED FOR NIGHT WORK.

CONCRETE BARRIERS SHALL BE USED WHEN WORKING ALONG A PUBLIC STREET WHERE EXCAVATION IS TAKING PLACE. THESE BARRIERS MUST BE IN PLACE BEFORE EXCAVATION STARTS AND REMOVED AFTER ALL PERMANENT BACKFILL OPERATIONS ARE COMPLETED.

IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER WILL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.

ALL TRENCHES WITHIN THE PAVEMENT, BERM, AND SHOULDER LIMITS SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

PROPERTY ACCESS: ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. AREAS WITH MULTIPLE DRIVES SHALL HAVE AT LEAST ONE DRIVE KEPT OPEN AT ALL TIMES. PROPERTIES WITH A SINGLE ACCESS WILL REQUIRE STAGED CONSTRUCTION; SHORT-TERM FULL CLOSURE OF A SINGLE ACCESS WILL BE PERMITTED WITH THE PROPERTY OWNER AND / OR TENANT'S AGREEMENT. SUCH FULL CLOSURES SHALL BE SCHEDULED AND COORDINATED WITH THE PROPERTY OWNER / TENANT.

UTILITY GENERAL NOTES

EXISTING UTILITIES: THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UTILITY, THE CITY OF PICKERINGTON AND/OR THE ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR THE DEPTHS OF THE UNDERGROUND FACILITIES SHOWN ON THE PLANS.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION OF ANY UTILITIES WITHIN THE LIMITS OF THE PROPOSED CONDUIT PATH, PRIOR TO STARTING ANY EXCAVATION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.

THE CONTRACTOR SHALL CAUSE NOTICE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (PHONE 800-362-2764) AND TO THE OWNERS OF THE UTILITY FACILITIES SHOWN ON THE PLAN WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE REVISED CODE. THE ABOVE-MENTIONED NOTICE SHALL BE GIVEN AT LEAST TWO (2) DAYS PRIOR TO THE START OF CONSTRUCTION.

WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CALL THE CITY OF PICKERINGTON, SERVICE DEPARTMENT AT 614-833-2292.

OHIO EPA REQUIRED NOTES: WATER LINES SHALL BE CONSTRUCTED A MINIMUM TEN FEET (10') HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY OR STORM LINES. A MINIMUM 18-INCH (18") VERTICAL CLEARANCE IS REQUIRED WHEN A WATER LINE CROSSES A SANITARY OR STORM LINE.

PRESSURE TESTING WILL BE IN ACCORDANCE WITH AWWA C-600 FOR DI, OR C-605 FOR PVC MATERIAL. INDIVIDUAL BOOSTER PUMPS WILL NOT BE ALLOWED FOR ANY INDIVIDUAL WATER SERVICE. THE NORMAL WORKING PRESSURE IN THE WATERLINES SHALL NOT BE LESS THAN 35 PSI. ALL FIRE HYDRANTS MUST MEET AWWA STANDARD C502.

CURB MARKINGS: THE FACE OF CURB, WHEN CONSTRUCTED OR REPAIRED, SHALL BE STAMPED USING THE FOLLOWING MARKINGS: W - WATER SERVICE, WM - MAIN LINE VALVE, WV - WATCH VALVE, S - SANITARY SERVICE, SM - SANITARY MH, X - CONDUIT CROSSING, G - NATURAL GAS.

WYE POLES: WYE POLES ARE TO BE INSTALLED AT THE LOCATION OF ALL MANHOLES, CATCH BASINS, VALVES, CURB BOXES, ENDS OF SERVICE LOCATIONS, AND UTILITY STUBS. WYE POLES SHALL CONSIST OF A MINIMUM THREE-INCH (3") SCH. 40 PVC PIPE OR A FOUR BY FOUR INCH (4"x4") WOOD POST. WYE POLES ARE TO BE A MINIMUM THREE-FOOT (3') ABOVE AND BELOW THE GROUND. THE TOP ONE-FOOT (1') SHALL BE PAINTED THE FOLLOWING COLORS: STORM SEWER - ORANGE, WATER - BLUE, SANITARY SEWER - GREEN. WYE POLES WILL BE REPAINTED AS NECESSARY OR AS DIRECTED BY THE CITY.

ALL NEW CONDUITS, CATCH BASINS AND MANHOLES CONSTRUCTED, AS PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEANED CONDITION BEFORE THE CITY OF PICKERINGTON WILL ACCEPT THE PROJECT.

HIGH DENSITY POLYETHYLENE (H.P.D.E.) CORRUGATED PIPE WITH INTERNALLY FORMED SMOOTH INTERIOR WALL ADS N-12 OR APPROVED EQUAL MAY BE SUBSTITUTED FOR REINFORCED CONCRETE PIPE IN NON-PAVED AREAS.

TRENCH DAMS: CLAY TRENCH DAMS SHALL BE INSTALLED WITHIN 10 FEET OF ANY STRUCTURE ALONG ALL PIPES LEADING TO OR FROM THAT STRUCTURE. AT LEAST 2 FEET OF CLAY MATERIAL BACKFILL SHALL BE COMPACTED IN PLACE AROUND ALL STRUCTURES, ALLOWING FOR A 4 INCH PLACEMENT OF TOPSOIL AT THE SURFACE.

CONCRETE PIPE AND STRUCTURE INSPECTION: ALL CONCRETE PIPE, STORM AND SANITARY STRUCTURES SHALL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE AND STRUCTURES HAVE BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEET THEIR SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION. FEES FOR THESE INSPECTIONS ARE TO BE PAID BY THE DEVELOPER.

BACKFILL: WHERE THE SEWER AND/OR WATER MAIN CROSSES A PROPOSED RIGHT-OF-WAY, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL, ITEM 912 AND SHALL BE COMPACTED IN 8 INCH LIFTS, FROM THE BOTTOM OF THE TRENCH TO A PLANE SIX INCHES (6") BELOW THE SUBGRADE. THE LIMITS OF PLACEMENT SHALL BE FROM RIGHT-OF-WAY LINE TO RIGHT-OF-WAY LINE, WHERE THE SEWER AND/OR WATER MAIN RUNS PARALLEL WITH THE CENTERLINE OF THE STREET OR UNDER SIDEWALKS OR WITHIN THE INFLUENCE LINE, MEASURED FROM BACK OF CURB, BACKFILL SHALL BE COMPACTED GRANULAR BACKFILL FROM THE BOTTOM OF THE TRENCH TO WITHIN SIX INCHES (6") OF THE FINISHED OR EXISTING GRADE. ALL OTHER TRENCH BACKFILL SHALL BE COMPACTED IN TWELVE-INCH (12") LIFTS, LOOSE MEASUREMENT. THE SOIL DENSITY AT LEAST EQUAL TO THAT OF THE ADJACENT UNDISTURBED SOIL. THE COST OF ALL BACKFILL IS TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SEWER AND/OR WATER MAIN ITEMS.

SANITARY SEWER

SA-1 TESTING: AN INFILTRATION OR EXFILTRATION TEST SHALL BE MADE IN ACCORDANCE WITH THE FAIRFIELD COUNTY SPECIFICATIONS WITH MAXIMUM TEST SECTIONS OF 400 FEET. LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER DAY PER INCH OF SEWER DIAMETER PER INCH OF PIPE. AIR TESTING IS AN ACCEPTABLE ALTERNATE TESTING METHOD FOR LEAKAGE AND SHALL BE MADE IN ACCORDANCE WITH FAIRFIELD COUNTY SPECIFICATIONS AND ASTM F1417-92. SANITARY SEWERS SHALL BE MANDREL TESTED AND LEAKAGE TESTED NO SOONER THAN 60 DAYS AFTER INSTALLATION. AFTER ACCEPTABLE MANDREL AND LEAKAGE TESTING, ALL SANITARY SEWERS SHALL BE VIDEOTAPED IN DVD FORMAT. THE DVD VIDEO SHALL CLEARLY IDENTIFY THE LOCATION OF THE CAMERA WITHIN THE SEWER, DATE AND TIME OF DVD VIDEO, AND BE OF SUFFICIENT QUALITY TO DETERMINE THE CONDITION OF THE SEWERS. ALL SANITARY MANHOLES SHALL BE VACUUM TESTED, IN ACCORDANCE WITH ASTM C1244-93. ALL TEST REPORTS AND DVD VIDEO SHALL BE FURNISHED TO THE COUNTY SANITARY ENGINEER PRIOR TO ACCEPTANCE OF THE SYSTEM.

SA-2 WYE POLES: THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 4" X 4" TREATED HARDWOOD LUMBER AT ALL WYE LOCATIONS, ENDS OF

EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED, EXTENDING A MINIMUM OF 3 FEET ABOVE FINAL SURFACE GRADES. THE WYE POLES SHALL BE PAINTED WITH TNEDEC ENDURATONE SERIES 1028 HUNTER GREEN.

SA-3 RISERS: RISERS SHALL BE PLACED ON ALL WYES WHERE THE FLOW LINE DEPTH IS GREATER THAN 12 FEET. TOPS OF RISERS ARE TO BE 10 FEET BELOW GROUND, PLUS OR MINUS ONE FOOT, OR AS OTHERWISE DIRECTED BY THE COUNTY SANITARY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.

SA-4 SERVICE CONNECTIONS: SERVICE OR HOUSE CONNECTIONS SHALL NOT BE CONNECTED TO THE LATERAL OR MAIN LINE SEWERS SHOWN HEREON UNTIL FULL APPROVAL OF SAID LATERAL OR MAIN LINE SEWER HAS BEEN RECEIVED.

SA-5 STORM WATER CONNECTIONS: NO FOUNDATION DRAINS, ROOF DRAINS, OR OTHER STORM WATER DRAINS OF ANY KIND SHALL BE CONNECTED INTO THE SANITARY SEWER SYSTEM.

SA-6 TRENCH DAMS: THE CONTRACTOR SHALL PLACE A CUT OFF TRENCH DAM OF NATIVE CLAY OR IMPERVIOUS SOLID ACROSS AND ALONG THE TRENCH UPSTREAM FROM THE MAIN LINE SEWER CONNECTION TO RETARD AND RESIST THE MOVEMENT OF GROUNDWATER THROUGH THE TRENCH GRANULAR BEDDING OR BACKFILL MATERIAL. THE TRENCH DAMS SHALL BE CAREFULLY COMPACTED AND SHALL BE SIX (6) FEET IN THICKNESS AS MEASURED ALONG THE SERVICE CENTER LINE AND SHALL BE CONSTRUCTED AGAINST THE UNDISTURBED TRENCH SIDES FROM THE SUBGRADE OR BOTTOM OF THE STONE FOUNDATION, WHICHEVER IS LOWER, TO THE LIMIT OF 36 INCHES OVER THE TOP OF THE PIPE, NO MORE THAN TEN (10) FEET FROM THE MAIN LINE SANITARY SEWER. SEE FAIRFIELD COUNTY STANDARD DRAWING SA.S-7 FOR THE SIX (6) INCH SANITARY SEWER SERVICE DETAIL.

SA-7 MANHOLE SEALING: THE MANHOLE FRAME CASTING AND THE TOP OF THE MANHOLE CONE SHALL BE EXTERNALLY SEALED WITH CCI PIPELINE SYSTEMS WRAPIDSEAL MANHOLE ENCAPSULATION SYSTEM.

SA-8 MANHOLE TOPS: WHERE MANHOLES ARE LOCATED WITHIN ROAD GRADING LIMITS, THE TOPS SHALL BE BUILT TO ELEVATIONS SHOWN ON THE APPROVED PLANS OR DIRECTED BY THE COUNTY SANITARY ENGINEER. ELSEWHERE, MANHOLES SHALL BE BUILT OR SUBSEQUENTLY ADJUSTED TO BE THREE (3) TO SIX (6) INCHES ABOVE FINAL SURFACE GRADES ESTABLISHED FOR THE DEVELOPMENT. ONLY ONE (1) PRECAST GRADE RING UP TO 6' IS ALLOWED FOR ADJUSTMENT. ANY ADJUSTMENT IN EXCESS OF 6' REQUIRES A BARREL CHANGE. ALL SANITARY MANHOLES SHALL BE BACKFILLED WITH GRANULAR MATERIAL FROM BASE TO TOP OF CONE.

SA-9 CONSTRUCTION AND MATERIAL SPECIFICATIONS: ALL MATERIALS AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE CURRENT FAIRFIELD COUNTY CONSTRUCTION AND MATERIAL SPECIFICATIONS INCLUDING ALL SUPPLEMENTS THERETO. ALL SEWER PIPES SHALL BE LAID WITH STONE OR GRAVEL BACKING AS SHOWN ON STANDARD DRAWING SA.S-1. ALL PIPES ARE PVC PLASTIC PIPE, UNLESS OTHERWISE NOTED. THE LIMITS OF PLACEMENT SHALL BE UNLESS OTHERWISE NOTED ON THE PLANS, PIPE FOR ALL HOUSE SERVICES SHALL BE SIX (6) INCHES NOMINAL DIAMETER PVC PLASTIC SEWER PIPE, ASTM D3034, SDR 35. SERVICES SHALL BE SUBJECT TO THE INFILTRATION AND EXFILTRATION TESTS. AIR TESTING OF SANITARY SEWERS AND SERVICE LINES IS ACCEPTABLE. ALL SERVICE EXTENSIONS SHALL BE LAID AT A MINIMUM GRADE OF ¼" INCH PER FOOT (2.08%).

WHERE THE SANITARY SEWER CROSSES UNDER A PROPOSED STORM SEWER, THE TRENCH SHALL BE BACKFILLED TO THE BOTTOM OF THE PROPOSED STORM SEWER WITH COMPACTED GRANULAR MATERIAL MEETING ODOT ITEM 304, TEN (10) FEET CENTERED ON THE STORM SEWER.

WHERE THE SANITARY SEWER CROSSES A PROPOSED STREET OR ROAD, THE TRENCH BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL, ODOT ITEM 304, FROM THE BOTTOM OF THE TRENCH TO A PLANE SIX (6) INCHES BELOW THE SUBGRADE. THE LIMITS OF PLACEMENT SHALL BE FROM THE RIGHT-OF-WAY LINE TO THE RIGHT-OF-WAY LINE. ALL OTHER TRENCH BACKFILL SHALL BE COMPACTED TYPE C BACKFILL, UNLESS OTHERWISE NOTED ON THE PLANS. THE COST OF BACKFILL IS TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SEWER ITEMS.

ALL MANHOLES SHALL HAVE NEEHAH R-1762 FRAMES WITH SELF-SEALING LIDS MARKED 'SANITARY SEWER'. MANHOLES LOCATED WITHIN 100 YEAR FLOOD PLAINS, OR WHERE FLOODING COULD OCCUR, SHALL HAVE NEEHAH R-1915-H FRAME WITH BOLT DOWN SEALED LIDS MARKED 'SANITARY SEWER'. ALL MANHOLES SHALL HAVE POLYPROPYLENE STEPS TO WITHIN ONE (1) FOOT OF THE TOP OF THE MANHOLE. ALL MANHOLE RINGS SHALL BE CONCRETE OR CAST TO PRECAST CHIMNEY SECTIONS WITH SEALER APPROVED BY THE COUNTY SANITARY ENGINEER. BRICK RISERS ARE NOT ACCEPTABLE.

GREEN METALLIC FUEL LOCATOR TAPE OF SIX (6) INCH WIDTH SHALL BE PLACED OVER ALL SANITARY SEWER AND FORCE MAIN LINES, WITHIN 12 TO 18 INCHES OF FINISHED GRADE. THIRTEEN GAUGE TRACER WIRE SHALL ALSO BE INSTALLED ON ALL SANITARY FORCE MAINS.

SA-10 TOOLS AND SPARE PARTS: THE FOLLOWING TOOLS AND SPARE PARTS SHALL BE DELIVERED TO THE PROJECT PRIOR TO COMMENCEMENT OF THE PROJECT: ONE COMPLETE WRAPIDSEAL KIT, ONE MANHOLE LIFTING HOOK, 1 COMPLETE MANHOLE CASTING.

STORM SEWER

STORM SEWER TESTING: ALL FLEXIBLE STORM SEWER PIPE SHALL HAVE A FIVE PERCENT (5%) DEFLECTION TEST CONDUCTED PRIOR TO THE RELEASE OF THE MAINTENANCE BOND.

STORM STRUCTURE LIDS AND CASTINGS: MANHOLE LIDS SHALL BE EITHER EAST-JORDAN IRON WORKS CATALOG #M-1120 OR NEEHAH CATALOG #M742 AND INCLUDE THE LABEL 'STORM'. CURB INLET CASTINGS ARE TO BE EITHER EAST-JORDAN IRON WORKS CATALOG #M73076 (DIPPED) OR NEEHAH CATALOG #S2900044. CURB INLET AND CATCH BASIN GRATES SHALL INCLUDE ENGRAVED LETTERING: DUMP NO WASTE; DRAINS TO RIVER.

CHANNELING: ALL STORM STRUCTURES SHALL BE CHanneled AS DIRECTED BY THE ENGINEER AND HAVE BICYCLE SAFE GRATES.

GUTTER TESTING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GRADES OF THE GUTTERS WITH WATER, PRIOR TO FINAL ACCEPTANCE OF THE STREETS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR CURB AND GUTTER.

ROOF DRAIN OPENINGS: THE CONTRACTOR SHALL PROVIDE TWO (2) THREE-INCH (3") DIAMETER ROOF DRAIN OPENINGS IN THE CURB FOR EACH LOT; EACH OPENING LOCATED NOT MORE THAN FOUR FOOT ABOVE FINISHED GRADE. EACH LOT LINE OPENING SHALL BE NO MORE THAN 3/4" ABOVE INVERT OF CURB GUTTER WITH ½" SLOPE FROM BACK OF CURB.

WATER LINES (FAIRFIELD COUNTY UTILITIES)

W-1 CONNECTING WATERLINES: THE CONNECTION OF PROPOSED WATERLINES TO EXISTING WATERLINES SHALL BE DONE IN A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO THOSE WITH AFFECTED SERVICES. WORK CONCERNING THE DISCONNECTION AND RECONNECTION OF EXISTING WATERLINES SHALL BE DONE BETWEEN THE HOURS OF 10:00 P.M. AND 5:00 A.M., OR AS DIRECTED BY THE COUNTY SANITARY ENGINEER. NO SUCH WORK SHALL BEGIN UNTIL THE TOWNSHIP FIRE DEPARTMENT, COUNTY SANITARY ENGINEER, COUNTY SHERIFF'S OFFICE AND RESIDENTS WHOSE SERVICES WILL BE AFFECTED ARE ALL NOTIFIED AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE CONNECTION, OF THE EXTENT, NATURE AND TIME OF THE ANTICIPATED WORK, NOR UNTIL THE METHOD AND SCHEDULE OF SUCH WORK HAS BEEN APPROVED BY THE COUNTY SANITARY ENGINEER.

W-2 SERVICE LOCATIONS: ALL WATER SERVICES SHALL BE LOCATED NEAR THE LOT LINE UNLESS OTHERWISE NOTED, AND SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM THE SANITARY SEWER SERVICE AND IN A SEPARATE TRENCH. A PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE FAIRFIELD COUNTY UTILITIES DEPARTMENT, PRIOR TO MAKING ANY CONNECTION FROM THE WATER MAIN OR WATER SERVICE BOX TO ANY EXISTING OR PROPOSED BUILDING.

W-3 CONFLICTS: WHEN CONFLICTS IN GRADE BETWEEN WATERLINES AND SEWERS ARE FOUND DURING CONSTRUCTION, THE WATERLINES SHALL BE LOWERED, UNLESS DIRECTED OTHERWISE BY THE COUNTY SANITARY ENGINEER. A MINIMUM VERTICAL SEPARATION OF 18 INCHES, MEASURED FROM THE OUTSIDE OF EACH PIPE, SHALL BE MAINTAINED.

W-4 MINIMUM DEPTH: WATER LINES SHALL BE LAID WITH A MINIMUM OF FOUR (4) FEET OF COVER FROM THE FINAL PROPOSED GROUND OR PAVEMENT GRADE TO THE TOP OF THE WATERLINE.

W-5 LINE CROSSINGS: AT ALL POINTS OF CROSSING OF WATER MAINS AND SEWERS, THE BACKFILL SHALL BE GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPE. THE

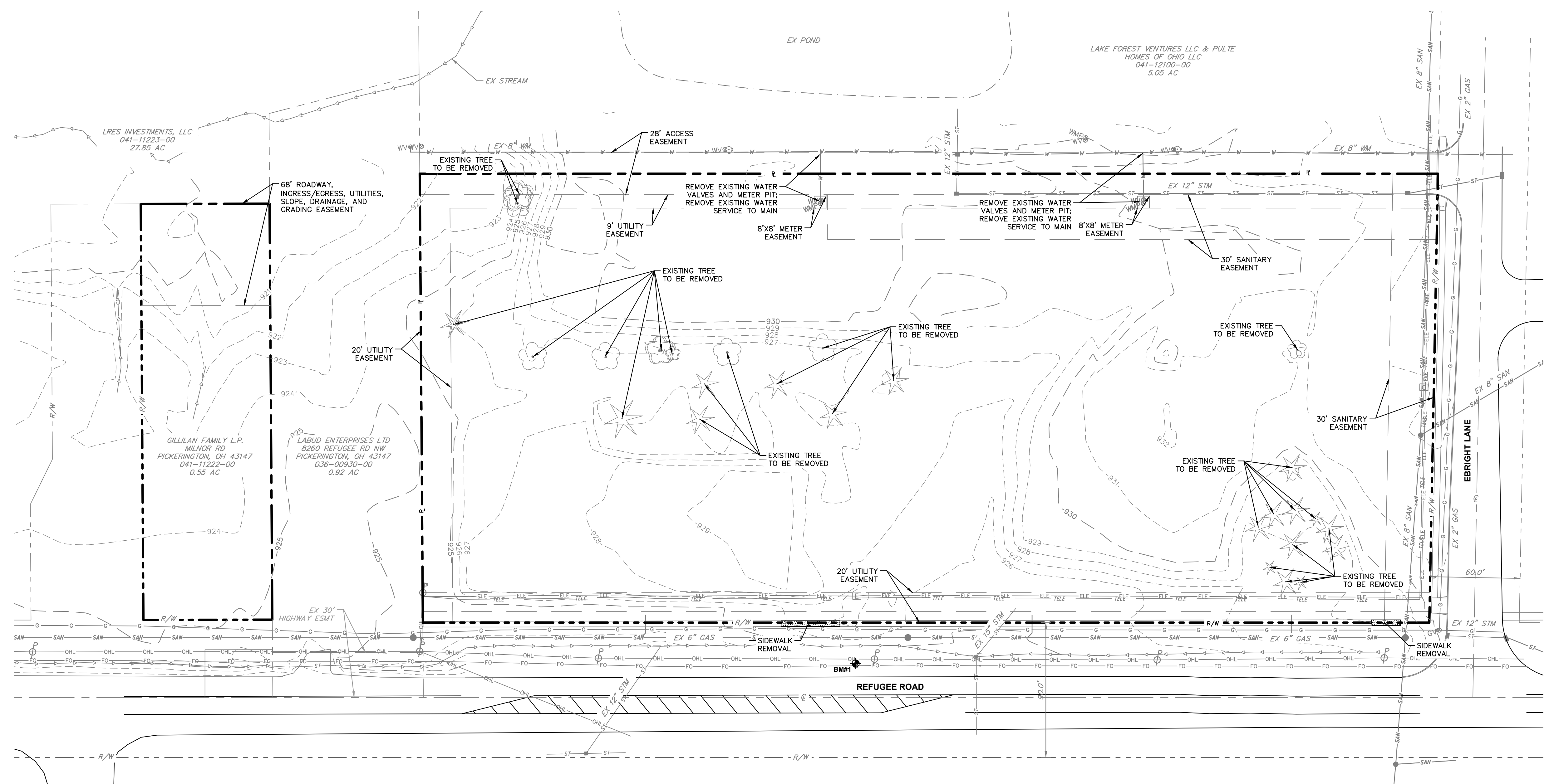
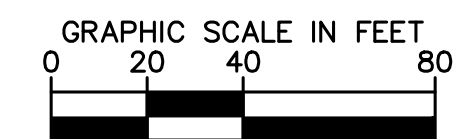
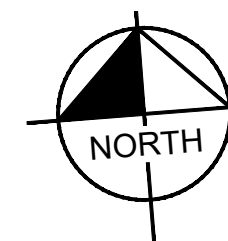
MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND ALL SANITARY AND STORM SEWERS SHALL BE TEN (10) FEET MEASURED FROM THE OUTSIDE OF EACH PIPE. THE MINIMUM VERTICAL SEPARATION AT CROSSINGS OF WATER MAINS AND ALL SEWERS SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF EACH PIPE.

W-6 DISINFECTION: ALL WATER MAINS SHALL BE CLEANED AND DISINFECTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF AWWA SPECIFICATION C651. SPECIAL ATTENTION IS DIRECTED TO THE REQUIREMENTS OF FLUSHING AND CHLORINATING VALVES AND FIRE HYDRANTS. RESULTS OF THE DISINFECTION TESTS SHALL BE FURNISHED TO THE COUNTY SANITARY ENGINEER PRIOR TO ACCEPTANCE OF THE SYSTEM.

W-7 TESTING: A HYDROSTATIC TEST, AS REQUIRED IN SECTION 7.3.3 OF AWWA SPECIFICATION C605 FOR PVC PIPE OR SECTION 6.2 OF AWWA SPECIFICATION C600 FOR DUCTILE IRON PIPE AS APPLICABLE, SHALL BE APPLIED TO THE WATER MAIN. IF THERE ARE INDICATIONS OF LEAKS UNDER THIS PRESSURE TEST, THE CONTRACTOR SHALL LOCATE AND REPAIR ALL LEAKS AT THE CONTRACTOR'S EXPENSE UNTIL THE LEAKAGE IS WITHIN THE SPECIFIED ALLOWANCE. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE MAINS AND ALL VALVES SHALL HAVE CONCRETE SUPPORTS, IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DRAWINGS. FINAL WATER PRESSURES TESTING FOR ACCEPTANCE ARE TO BE CONDUCTED AFTER ALL OTHER UTILITIES ARE INSTALLED IN NEW DEVELOPMENT AREAS.

W-8 FIRE HYDRANTS: FIRE HYDRANTS SHALL BE AMERICAN FLOW CONTROL MODEL MK-73 OR MUELLER SUPER CENTURION 250 MODEL A-421, AS SHOWN ON STANDARD DRAWING W-20, AND BE INSTALLED AS PER STANDARD DRAWINGS W-21, W-22, W-23 AND W-24. FIRE HYDRANTS AND LIDS OF WATCH VALVE BOXES SHALL BE THOROUGHLY CLEANED AND PREPPED, AND PRIMED WITH ONE COAT OF TNEDEC ENDURATONE SERIES GRAY AND BE PAINTED WITH TWO COATS TNEDEC ENDURATONE SERIES 1028 CHILEAN RED FOR THE TOP COATS. HYDRANTS SHALL BE OF THE SAME MANUFACTURER AS CONSISTENT WITHIN A SUBDIVISION OR SERVICE AREA.

W-9 CURB AND VALVE BOXES: CURB BOXES SHALL BE LOCATED 12 INCHES FROM THE PROPERTY LINE OR EASEMENT LINE FOR SHORT SERVICES AND 12 INCHES FROM THE PROPERTY LINE ON LONG SERVICES, UNLESS OTHERWISE SHOWN ON THE PLANS. ALL CURB BOX AND VALVE DEFLECTIONS AND HYDRANTS SHALL HAVE CONCRETE BACKING AND ALL VALVES SHALL HAVE CONCRETE SUPPORTS,



LEGEND

	EXISTING SITE BOUNDARY
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING PAVEMENT
	EXISTING CURB
	EXISTING ROAD CENTERLINE
	EXISTING EASEMENT
	EXISTING SANITARY LINE
	EXISTING CATCH BASIN
	EXISTING MANHOLE
	EXISTING WATER LINE
	EXISTING HYDRANT
	EXISTING VALVE
	EXISTING OVERHEAD LINE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING TELEPHONE LINE
	EXISTING POWER POLE
	EXISTING FIBER OPTIC LINE
	EXISTING DITCH
	EXISTING CONTOUR
	PROPOSED CONTOUR

NOTE:

- CONTRACTOR SHALL PROTECT ALL EXISTING FEATURES (SIDEWALKS, CURBS, ABOVE- AND BELOW-GROUND UTILITIES, ETC.) NOT SHOWN TO BE REMOVED THROUGHOUT THE DURATION OF CONSTRUCTION.
- SIDEWALK REMOVAL TO BE TAKEN TO NEAREST JOINT, AT OR BEYOND REMOVAL LIMITS SHOWN.

BENCHMARKS (NAVD 88)

BENCHMARK #1
CHISELED "X" ON NORTH RIM OF AT&T MANHOLE ELEV.=926.92'

REFERENCE

THE BEARINGS SHOWN ON THIS PLAT ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD83 (2011). SAID BEARINGS ORIGINATED FROM A FIELD TRAVERSE WHICH WAS REFERENCED TO SAID COORDINATE SYSTEM BY GPS OBSERVATIONS AND OBSERVATIONS OF SELECTED STATIONS IN THE OHIO DEPARTMENT OF TRANSPORTATION VIRTUAL REFERENCE STATION NETWORK. THE PORTION OF THE SOUTH RIGHT OF WAY LINE OF REFUGEE RD., HAVING A BEARING OF N 85°32'43" W AND MONUMENTED AS SHOWN HEREON, IS DESIGNATED THE 'BASIS OF BEARING' FOR THIS PLAT.



OHIO Utilities Protection SERVICE
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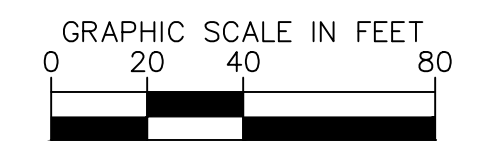
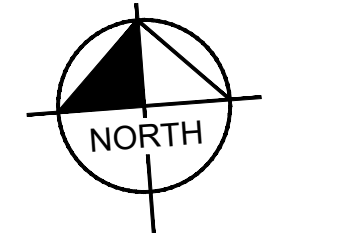
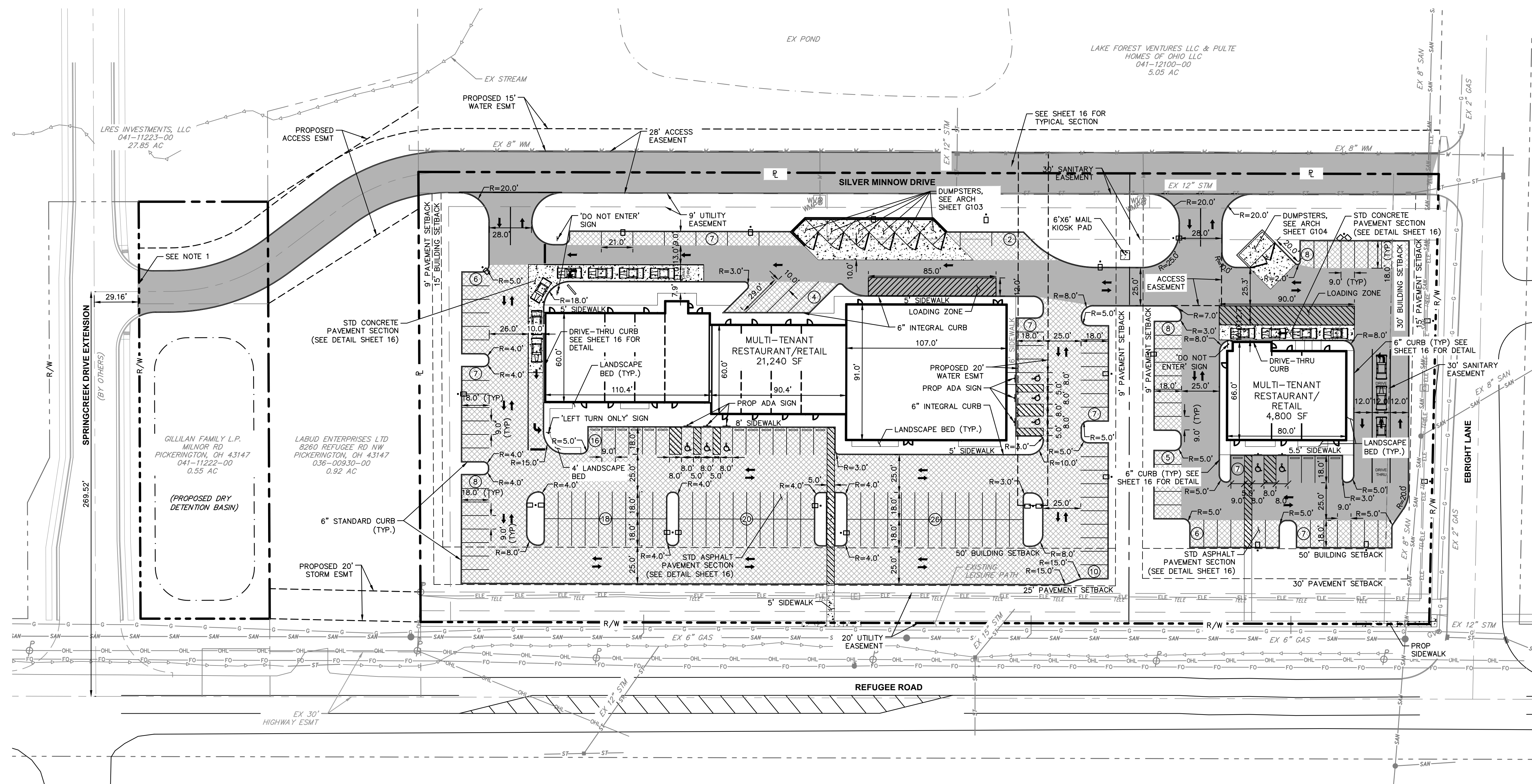
			PROJECT MANAGER	BAS
			DESIGN	SRS
			DRAWN	SRS
			QA/QC	NSS
			DATE	NOV 2021
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	190115000

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COLUMBUS, OH 43235
PHONE: 614-454-6697
WWW.KIMLEY-HORN.COM

SHOPS AT EBRIGHT
8140, 8180, 8220 REFUGEE ROAD
PICKERINGTON, OHIO 43147

EXISTING CONDITIONS

FILENAME	C100	SHEET
SCALE	AS SHOWN	3 OF 27



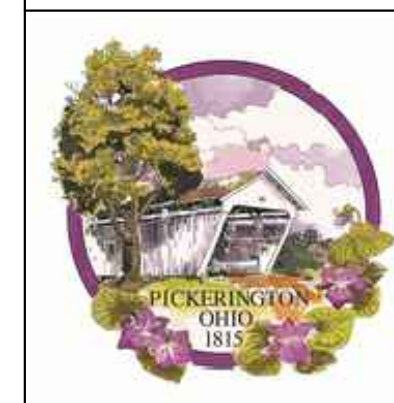
LEGEND

- EXISTING SITE BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- EXISTING PAVEMENT
- EXISTING CURB
- EXISTING ROAD CENTERLINE
- EXISTING EASEMENT
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- EXISTING UNDERGROUND ELECTRIC
- EXISTING TELEPHONE LINE
- EXISTING POWER POLE
- EXISTING FIBER OPTIC LINE
- EXISTING DITCH
- EXISTING CURB
- PROPOSED WATER BODY
- PROPOSED PARKING
- PROPOSED LIGHT POST
- CONCRETE PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT

NOTES

1. CONNECT TO SPRINGCREEK DRIVE EXT. SPRINGCREEK DRIVE EXT. DESIGN AND CONSTRUCTION BY OTHERS. PLEASE CONTACT CITY OF PICKERINGTON TO OBTAIN A COPY OF THE DESIGN PLANS ENTITLED, "CITY OF PICKERINGTON, OHIO EXTENSION OF SPRINGCREEK DR".

WEST LOT		EAST LOT	
LOT SIZE	3.25 AC (141,714 SF)	LOT SIZE	1.40 AC (60,822 SF)
BUILDING GROSS FLOOR AREA	21,240 SF	BUILDING GROSS FLOOR AREA	4,960 SF
IMPERVIOUS AREA (INCL. BLDG & SILVER MINNOW DR)	102,538 SF	IMPERVIOUS AREA (INCL. BLDG & SILVER MINNOW DR)	37,411 SF
BUILDING COVERAGE	15.0%	BUILDING COVERAGE	8.2%
TOTAL IMPERVIOUS COVERAGE	72.4%	TOTAL IMPERVIOUS COVERAGE	61.5%
PARKING			
TOTAL REQUIRED PARKING	131	TOTAL REQUIRED PARKING	41
14,040 SF RETAIL/200	71	1,800 SF RESTAURANT W/ DRIVE THROUGH/175	11
3,000 SF RESTAURANT W/ DRIVE THROUGH/175	18	3,000 SF RESTAURANT/100	30
4,200 SF RESTAURANT/100	42		
PROPOSED PARKING	138	PROPOSED PARKING	41



PROJECT MANAGER	BAS
DESIGN	SRS
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QA/QC	NSS
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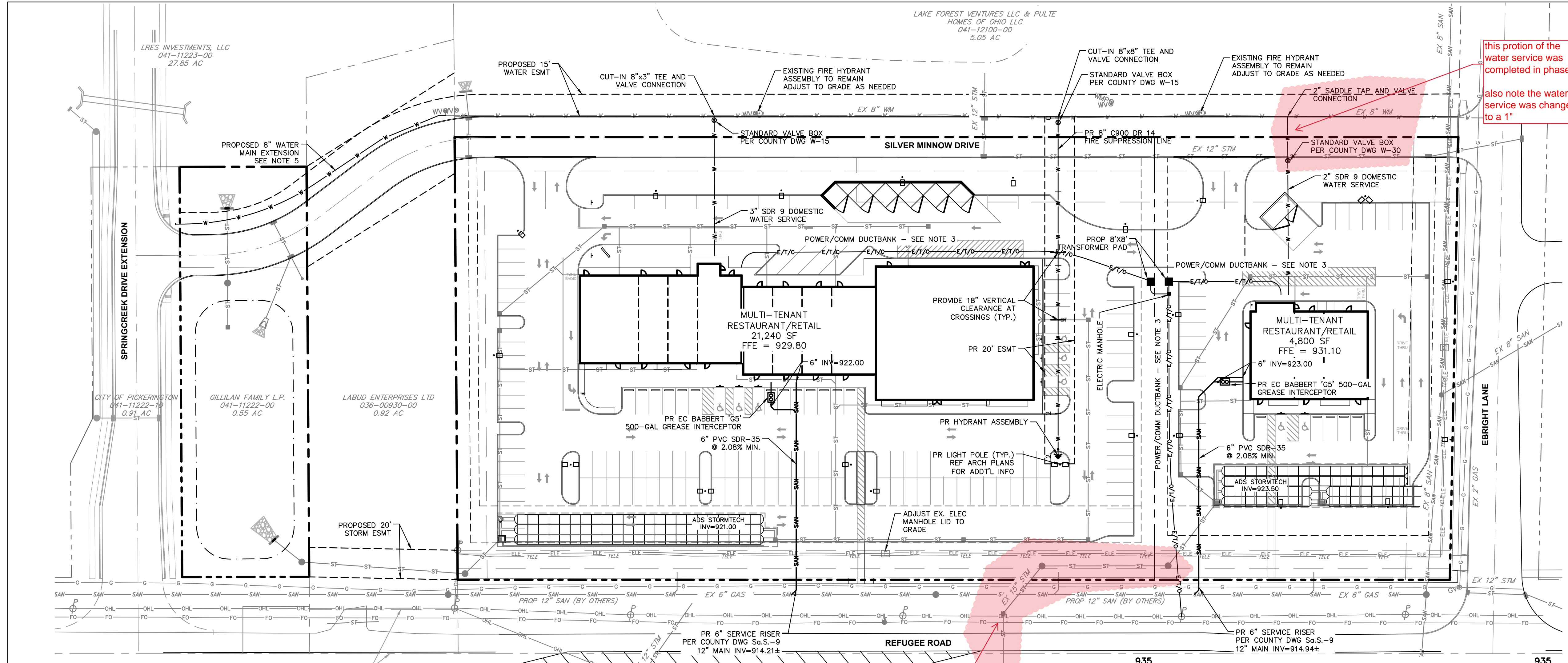
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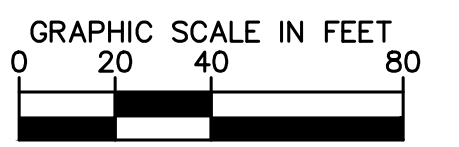
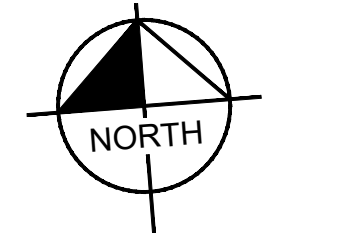
SITE PLAN

FILENAME	C200	SHEET
SCALE	AS SHOWN	4 OF 27



this portion of the water service was completed in phase I
also note the water service was changed to a 1"

this storm was completed in phase I

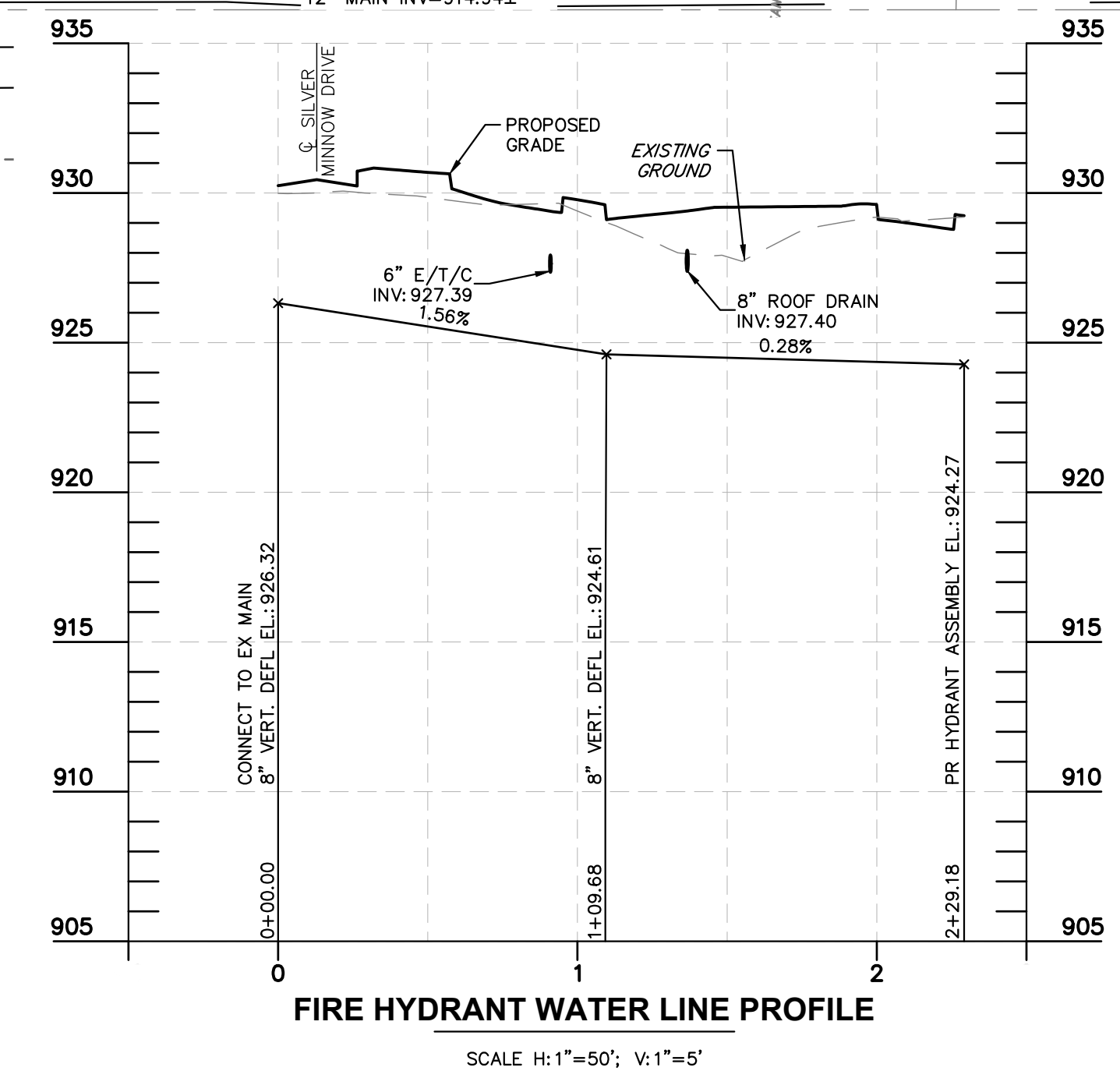


LEGEND

- EXISTING SITE BOUNDARY
- - - - EXISTING PROPERTY LINE
- - - - EXISTING RIGHT-OF-WAY
- ==== EXISTING PAVEMENT
- ==== EXISTING CURB
- ==== EXISTING ROAD CENTERLINE
- - - - EXISTING EASEMENT
- - - - EXISTING STORM LINE
- - - - EXISTING SANITARY LINE
- - - - EXISTING CATCH BASIN
- - - - EXISTING WATER LINE
- - - - EXISTING HYDRANT
- - - - EXISTING VALVE
- - - - EXISTING OVERHEAD LINE
- - - - EXISTING UNDERGROUND ELECTRIC
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- - - - EXISTING FIBER OPTIC LINE
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- PROPOSED CURB
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- PROPOSED STORM SEWER
- PROPOSED CURB INLET
- PROPOSED CATCH BASIN
- PROPOSED HEADWALL
- PROPOSED WATERLINE
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED SPOT ELEVATION
- PROPOSED HIGH POINT ELEVATION
- PROPOSED RIM ELEVATION
- PROPOSED ROADWAY SLOPE
- PROPOSED LIGHT POST

NOTES

1. FOR SERVICE CONTINUATIONS, METER ROOM DETAILS, AND LIGHT POLE SPECIFICATION AND PHOTOMETRICS, REFER TO ARCHITECTURAL AND MEP PLANS.
2. WATER METERS AND BACKFLOW PREVENTERS TO BE LOCATION INSIDE BUILDINGS.
3. REFER TO ARCHITECT PLAN SET, SHEET ES101, FOR SITE ELECTRIC SERVICE AND SITE LIGHTING DETAILS.
4. SEE SHEET 8 FOR SANITARY PROFILES AND ADDITIONAL INFO.
5. SEE SHEET 15 FOR PROPOSED WATER MAIN EXTENSION DETAILS.



FIRE HYDRANT WATER LINE PROFILE
SCALE: H:1"=50'; V:1"=5'



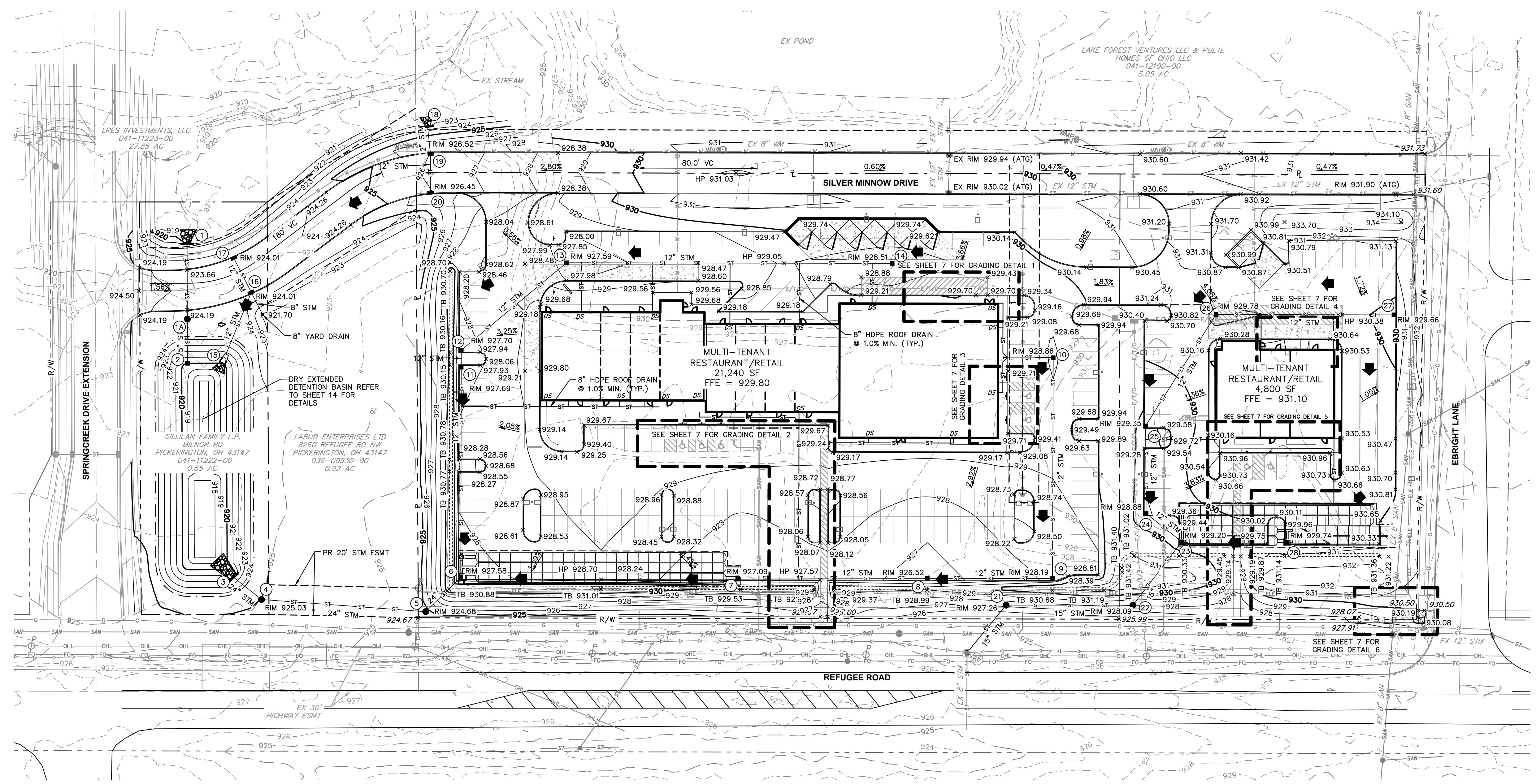
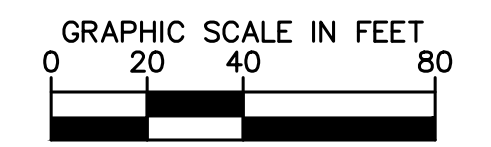
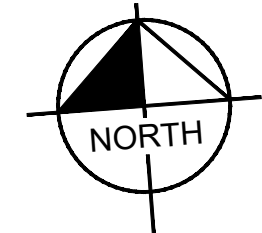
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DESIGN	SRS	
DRAWN	SRS	
QA/QC	NSS	
DATE	NOV 2021	
PROJECT NUMBER	190115000	
ISSUE	DATE	DESCRIPTION

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8140, 8180, 8220 REFUGEE ROAD
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UTILITY PLAN

FILENAME	C300	SHEET
SCALE	AS SHOWN	5 OF 27

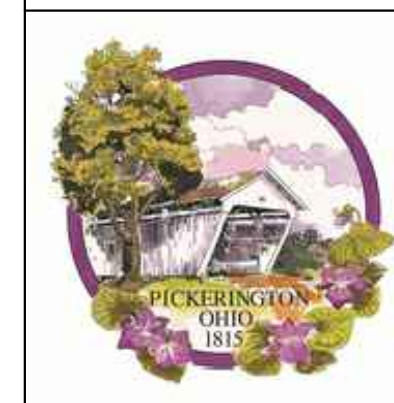


LEGEND

	EXISTING SITE BOUNDARY
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING PAVEMENT
	EXISTING CURB
	EXISTING ROAD CENTERLINE
	EXISTING EASEMENT
	EXISTING STORM SEWER
	EXISTING SANITARY LINE
	EXISTING CATCH BASIN
	EXISTING MANHOLE
	EXISTING WATER LINE
	EXISTING HYDRANT
	EXISTING VALVE
	EXISTING OVERHEAD LINE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING TELEPHONE LINE
	EXISTING POWER POLE
	EXISTING FIBER OPTIC LINE
	EXISTING DITCH
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED CURB
	PROPOSED WATER BODY
	PROPOSED TOP OF BERM
	PROPOSED STORM SEWER
	PROPOSED CURB INLET
	PROPOSED CATCH BASIN
	PROPOSED HEADWALL
	PROPOSED WATERLINE
	PROPOSED FIRE HYDRANT
	PROPOSED SANITARY SEWER
	PROPOSED SANITARY MANHOLE
	PROPOSED SPOT ELEVATION
	PROPOSED HIGH POINT ELEVATION
	PROPOSED RIM ELEVATION
	PROPOSED TOP OF BERM ELEVATION
	PROPOSED ROOF DOWNSPOUT LOCATION
	PROPOSED ROADWAY SLOPE
	PROPOSED FLOOD ROUTE

NOTES

- CONTRACTOR TO VERIFY DOWNSPOUT LOCATIONS WITH ARCHITECT PRIOR TO START OF WORK.
- REFER TO SHEETS 17-23 FOR UNDERGROUND DETENTION FACILITY DETAILS.
- REFER TO ARCHITECTURAL PLANS FOR DETAIL OF DOWNSPOUT-ROOF DRAIN CONNECTION.
- UNLESS NOTED OTHERWISE, ALL ROOF DRAINS SHALL BE 8" HDPE.



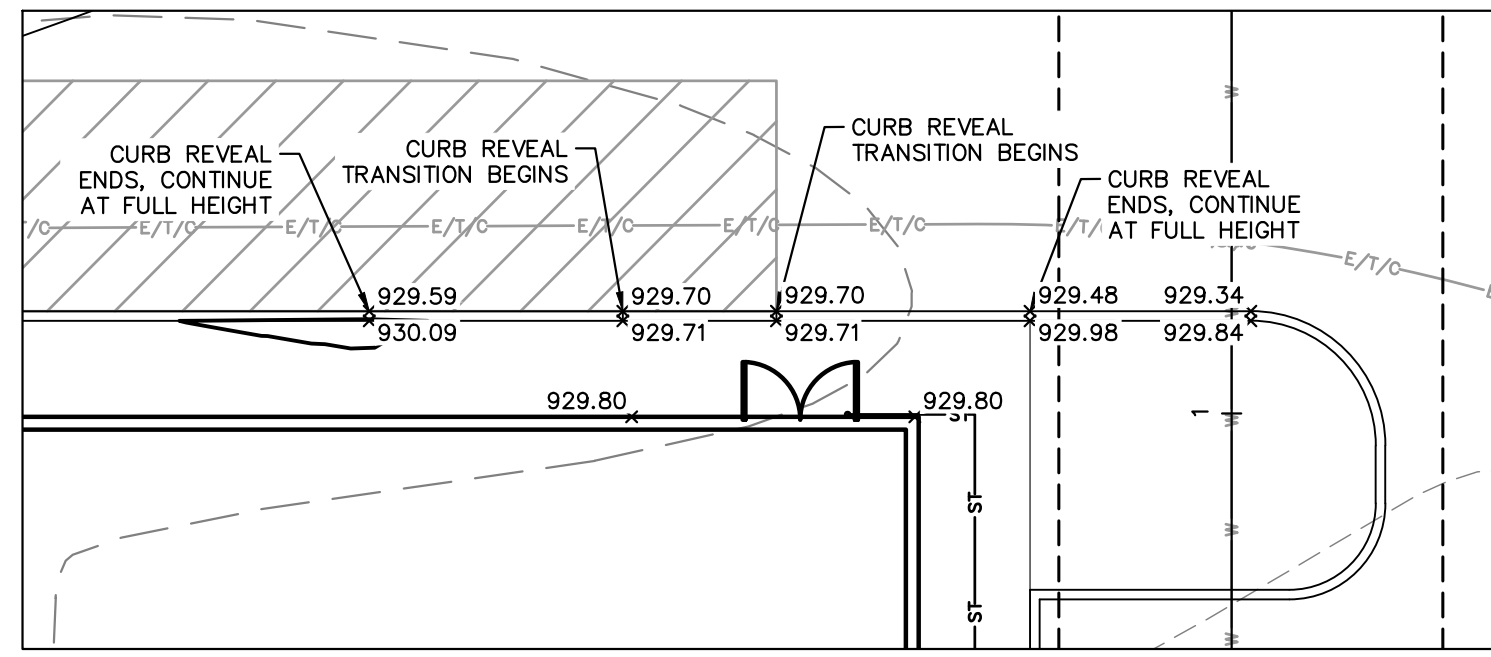
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DESIGN	SRS	
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QA/QC	NSS	
DATE	NOV 2021	
PROJECT NUMBER	190115000	
ISSUE	DATE	DESCRIPTION

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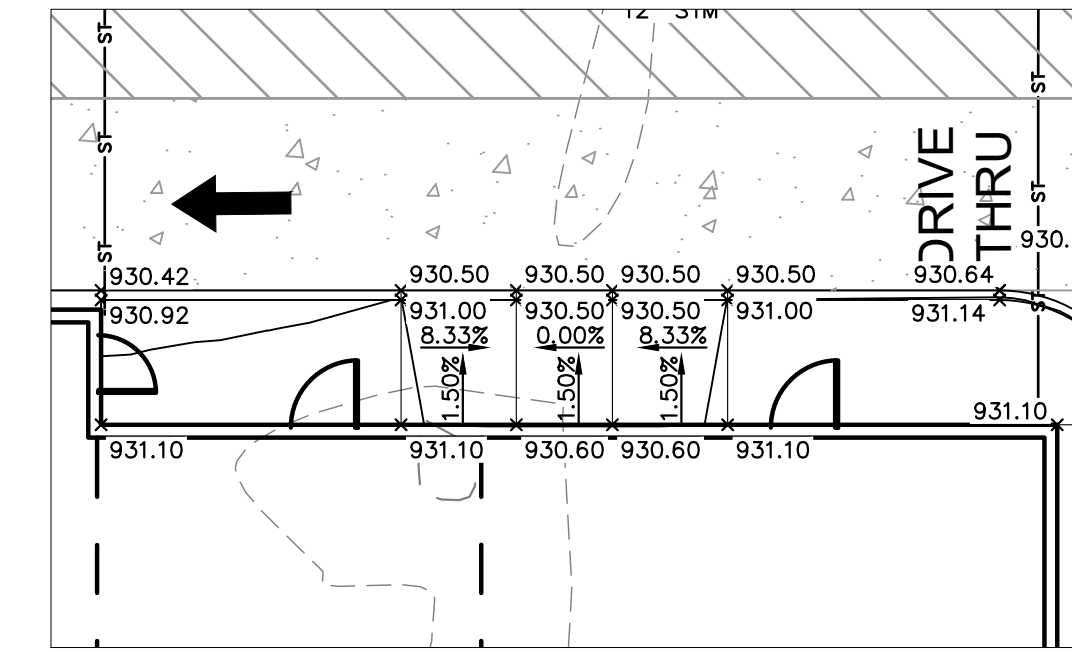
GRADING PLAN

FILENAME	C400	SHEET
SCALE	AS SHOWN	6 OF 27



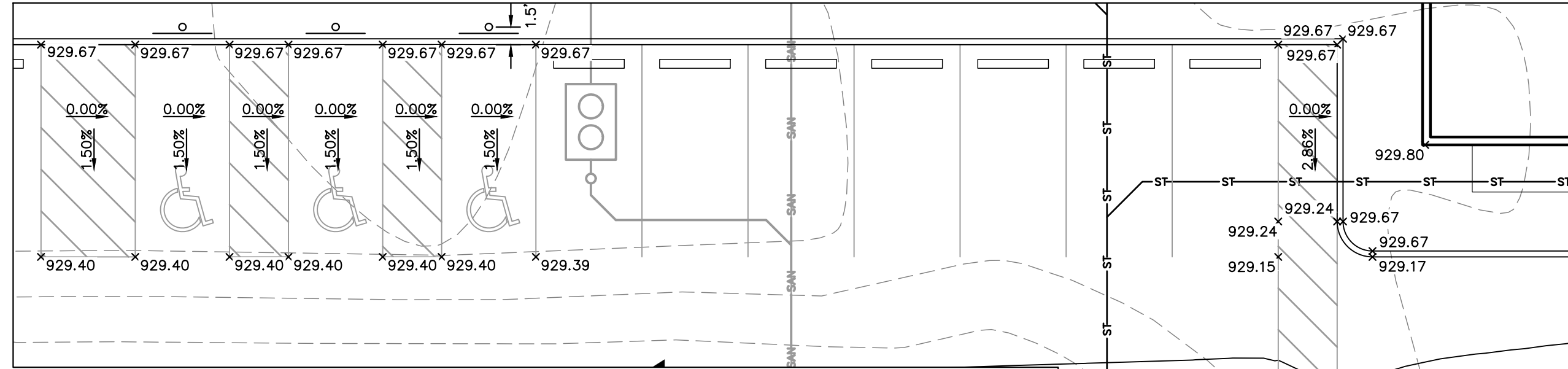
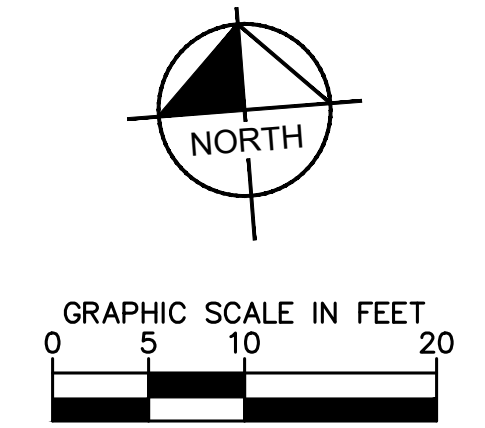
GRADING DETAIL 1

SCALE: 1"=10"



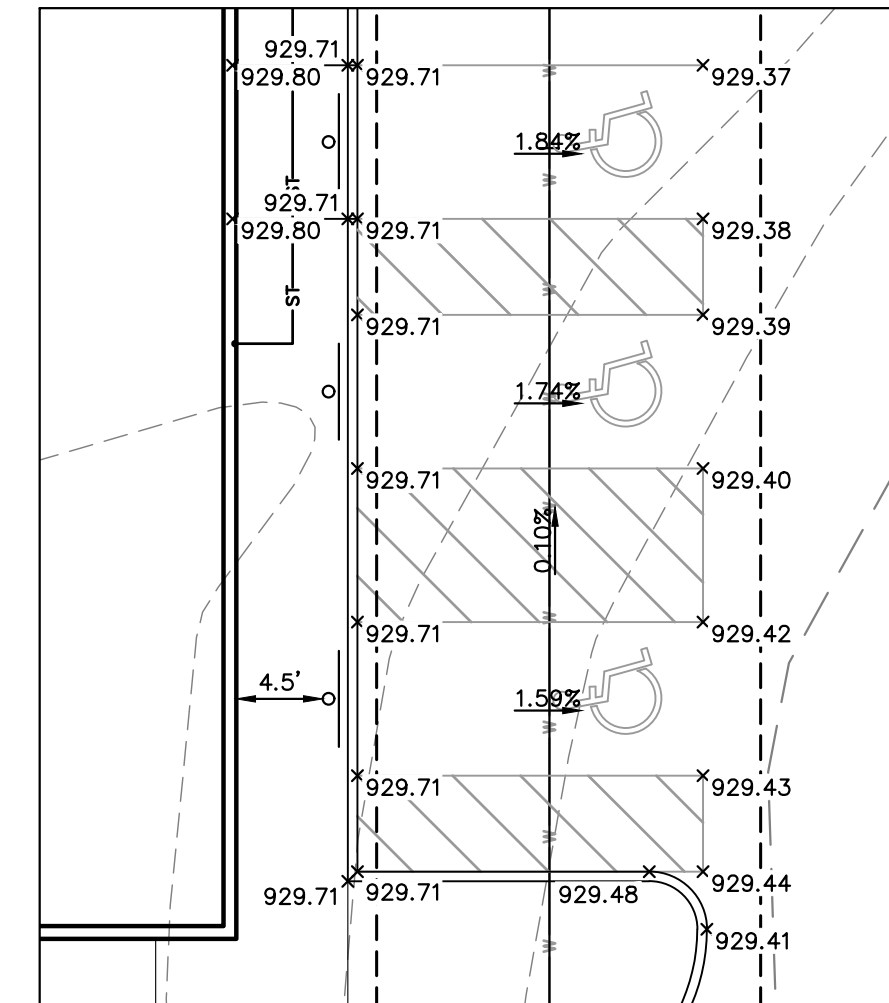
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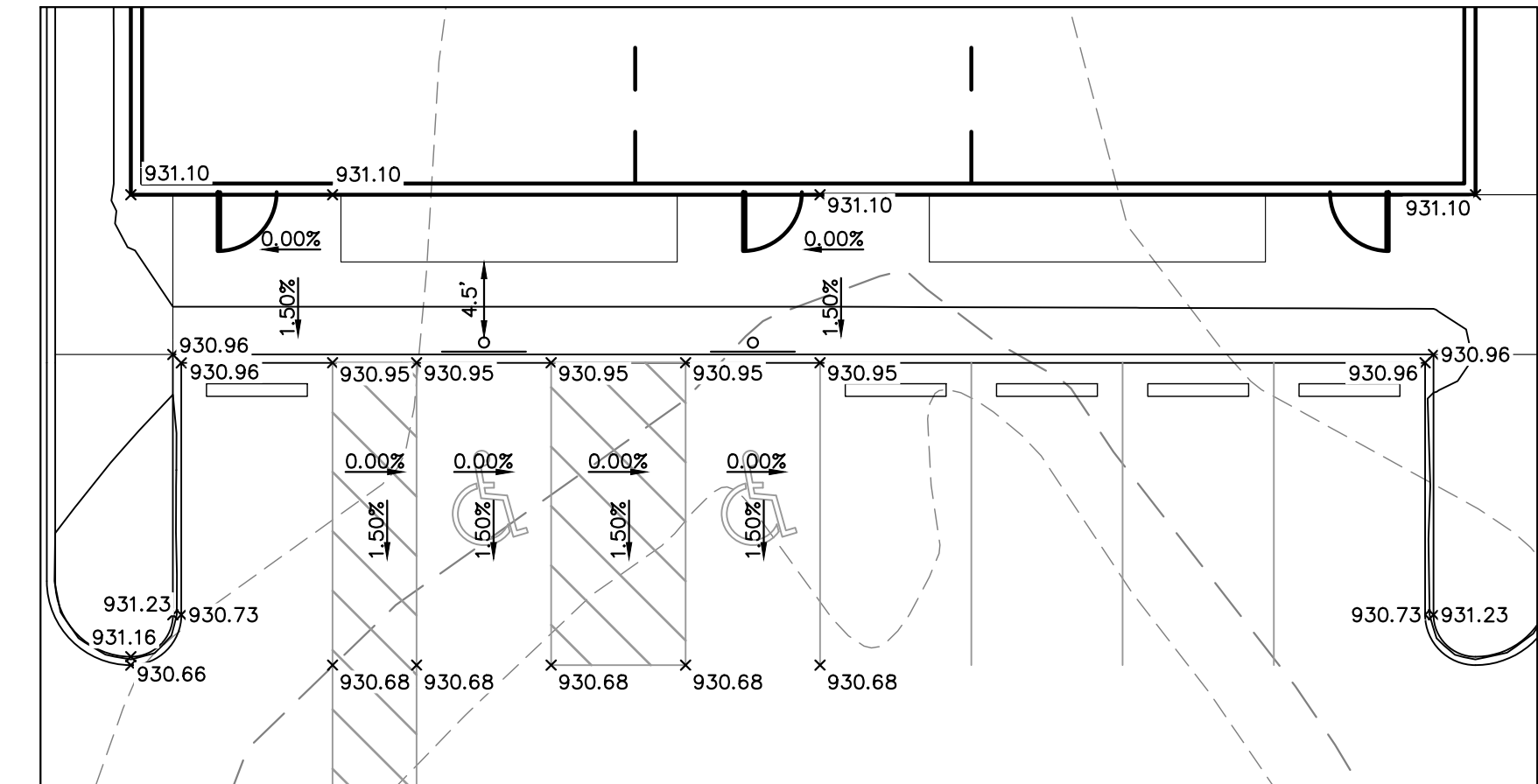
GRADING DETAIL 2

SCALE: 1"=10"



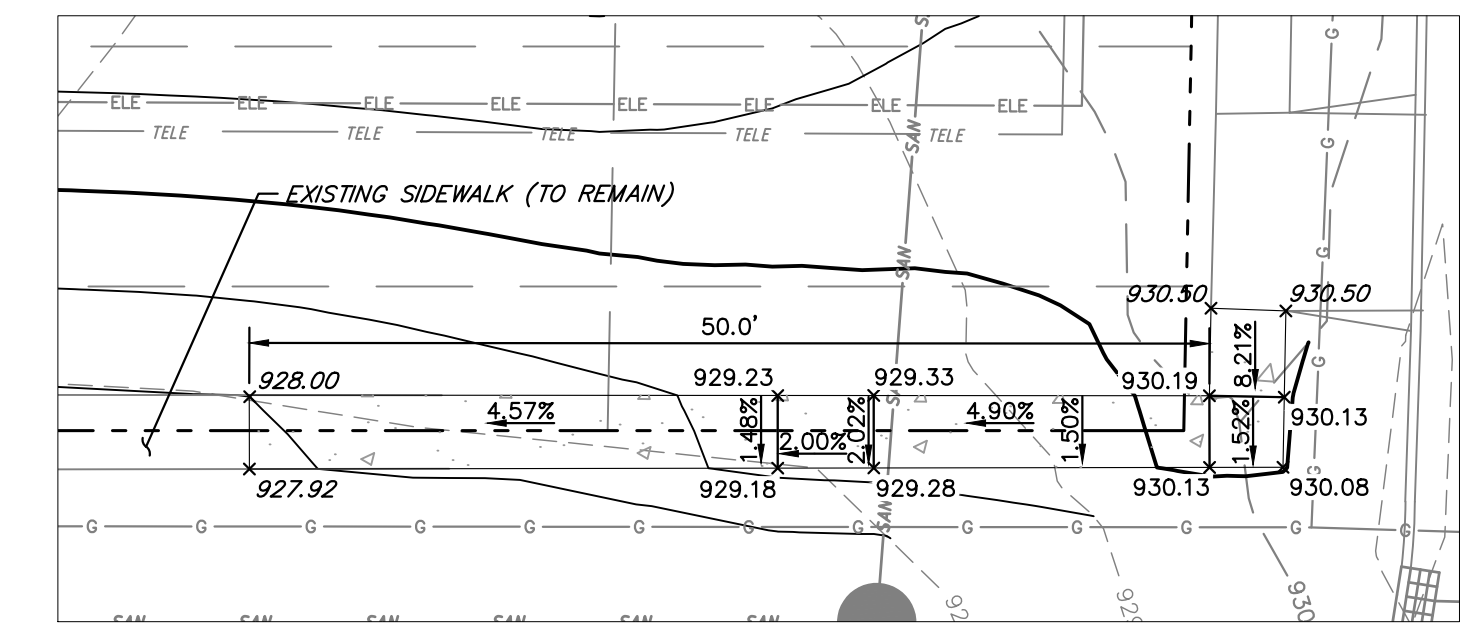
GRADING DETAIL 3

SCALE: 1"=10"



GRADING DETAIL 5

SCALE: 1"=10"

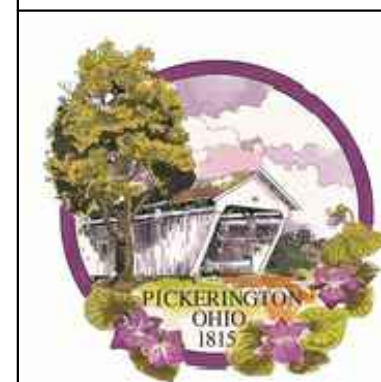
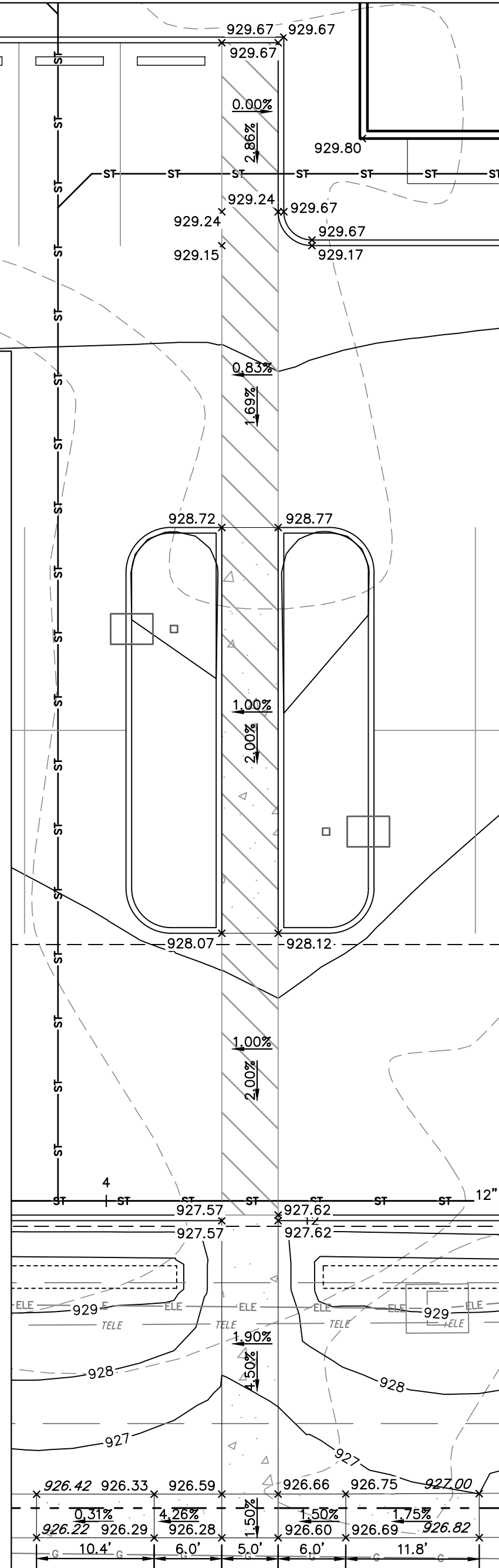


GRADING DETAIL 6

SCALE: 1"=10"

LEGEND

- EXISTING SITE BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- EXISTING PAVEMENT
- EXISTING CURB
- EXISTING ROAD CENTERLINE
- EXISTING EASEMENT
- ST-ST EXISTING STORM LINE
- SAN-SAN EXISTING SANITARY LINE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING WATER LINE
- EXISTING HYDRANT
- EXISTING VALVE
- EXISTING OVERHEAD LINE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING TELEPHONE LINE
- EXISTING POWER POLE
- EXISTING FIBER OPTIC LINE
- EXISTING DITCH
- PROPOSED CURB
- PROPOSED WATER BODY
- PROPOSED STORM SEWER
- PROPOSED CURB INLET
- PROPOSED CATCH BASIN
- PROPOSED HEADWALL
- PROPOSED WATERLINE
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED SPOT ELEVATION
- PROPOSED HIGH POINT ELEVATION
- PROPOSED RIM ELEVATION
- PROPOSED ROADWAY SLOPE



			PROJECT MANAGER	BAS
			DESIGN	SRS
			DRAWN	SRS
			QA/QC	NSS
			DATE	NOV 2021
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	190115000

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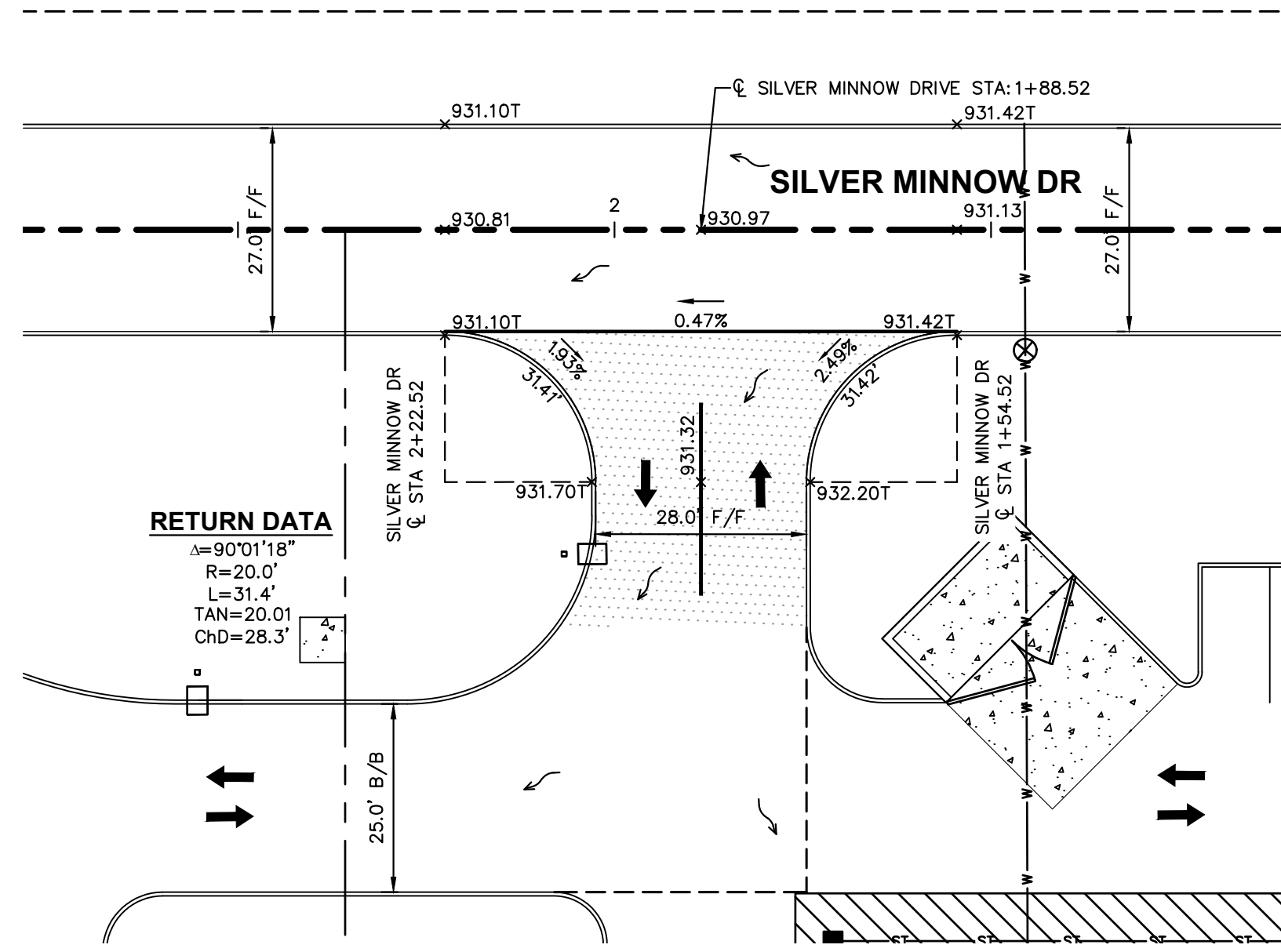
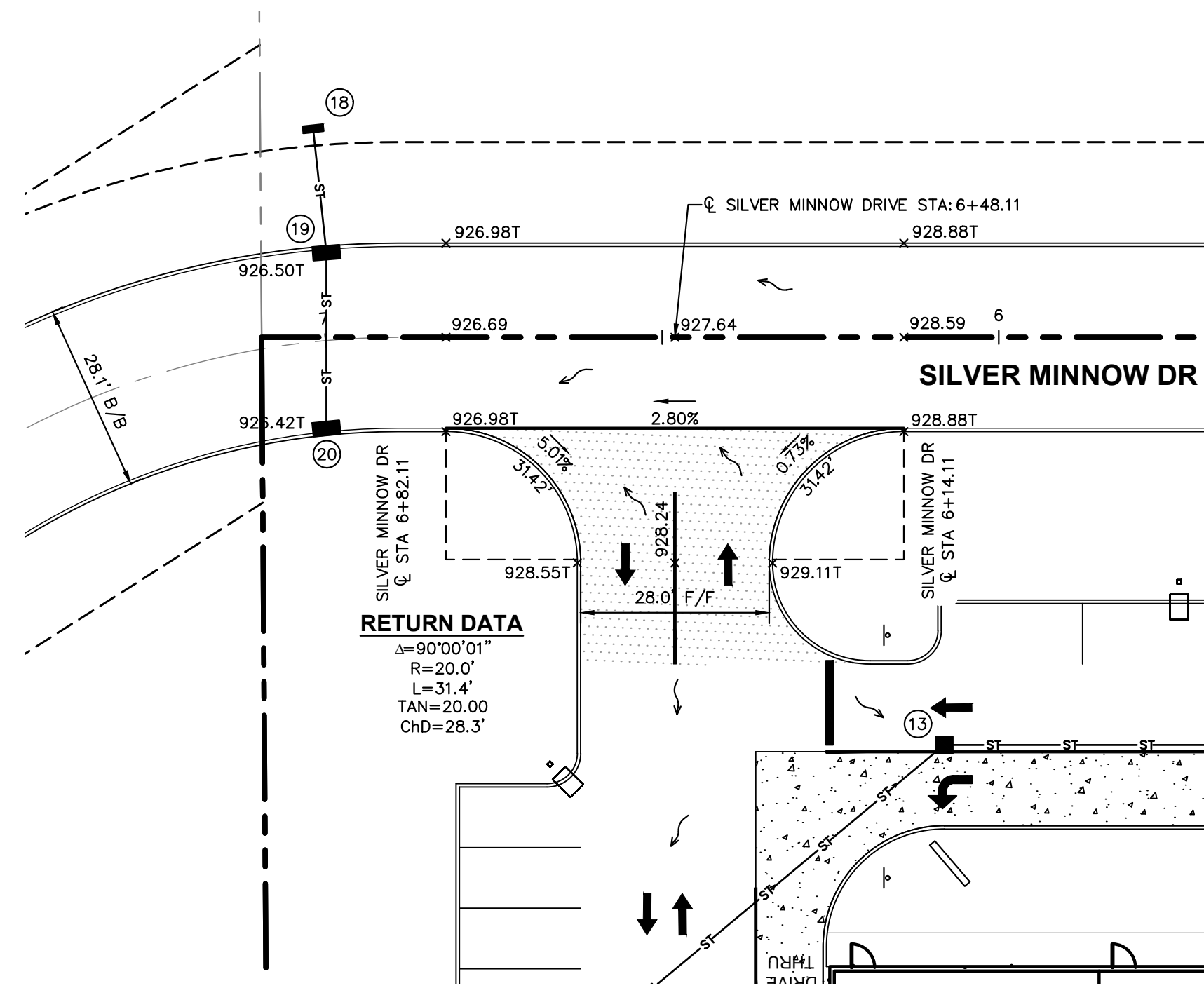
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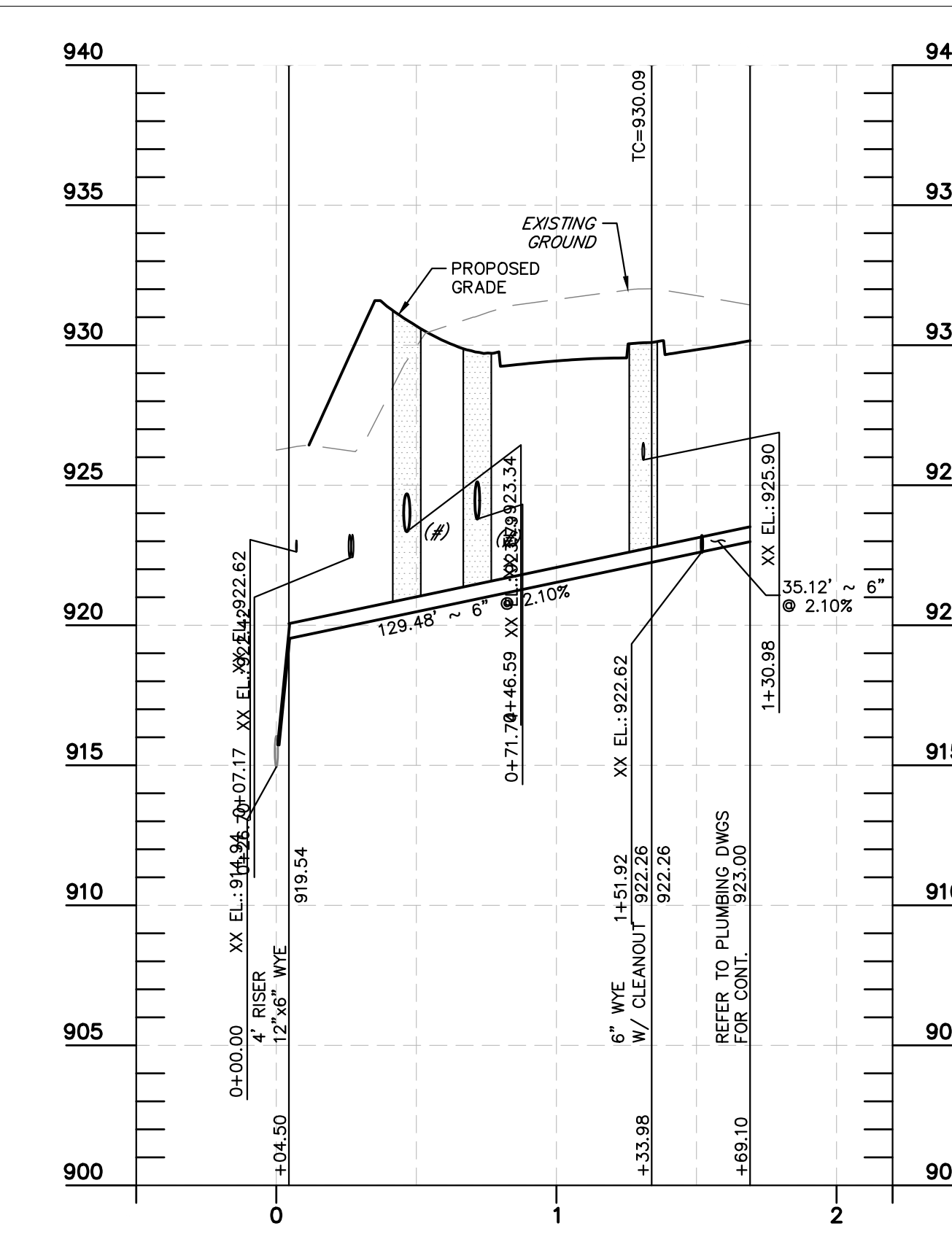
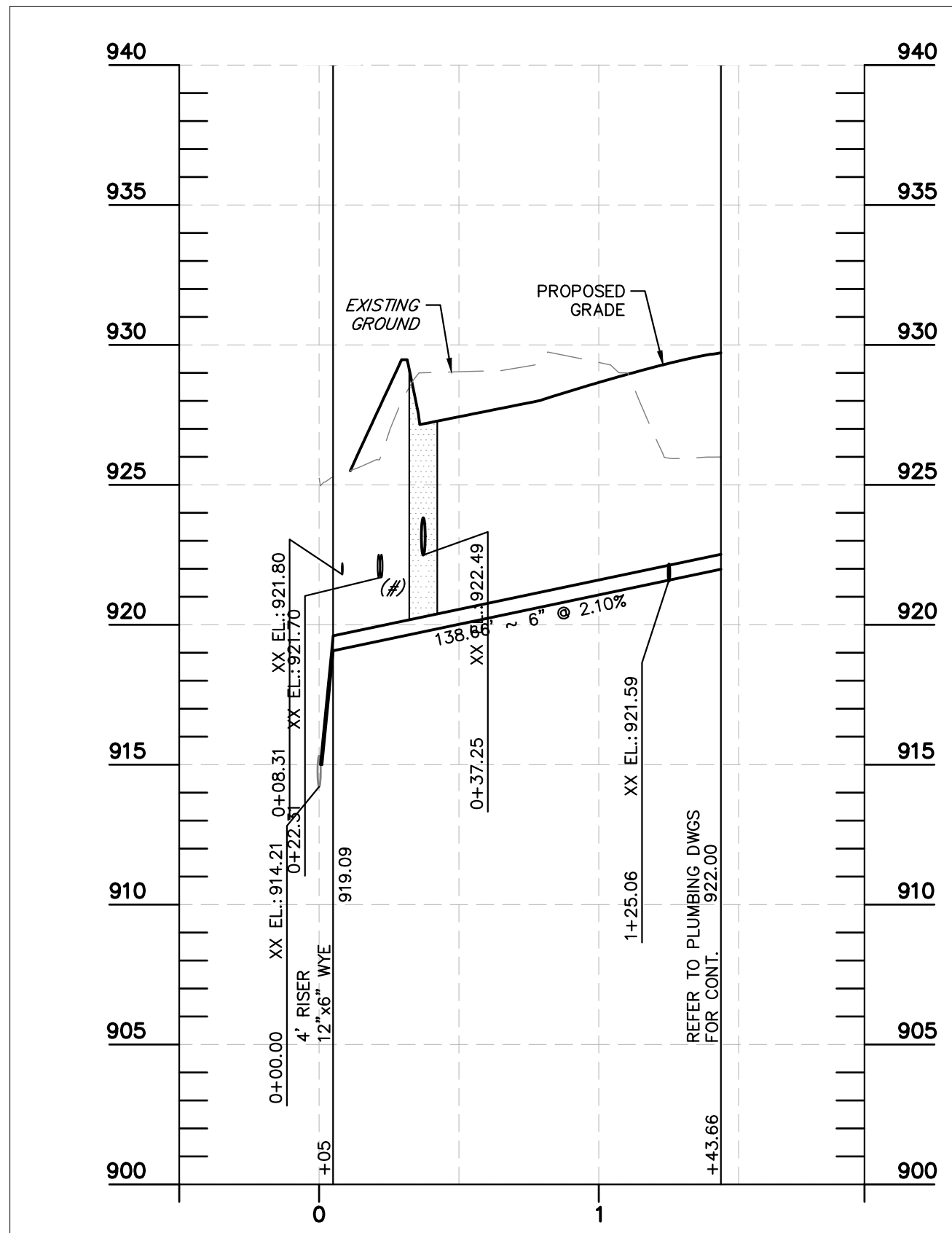
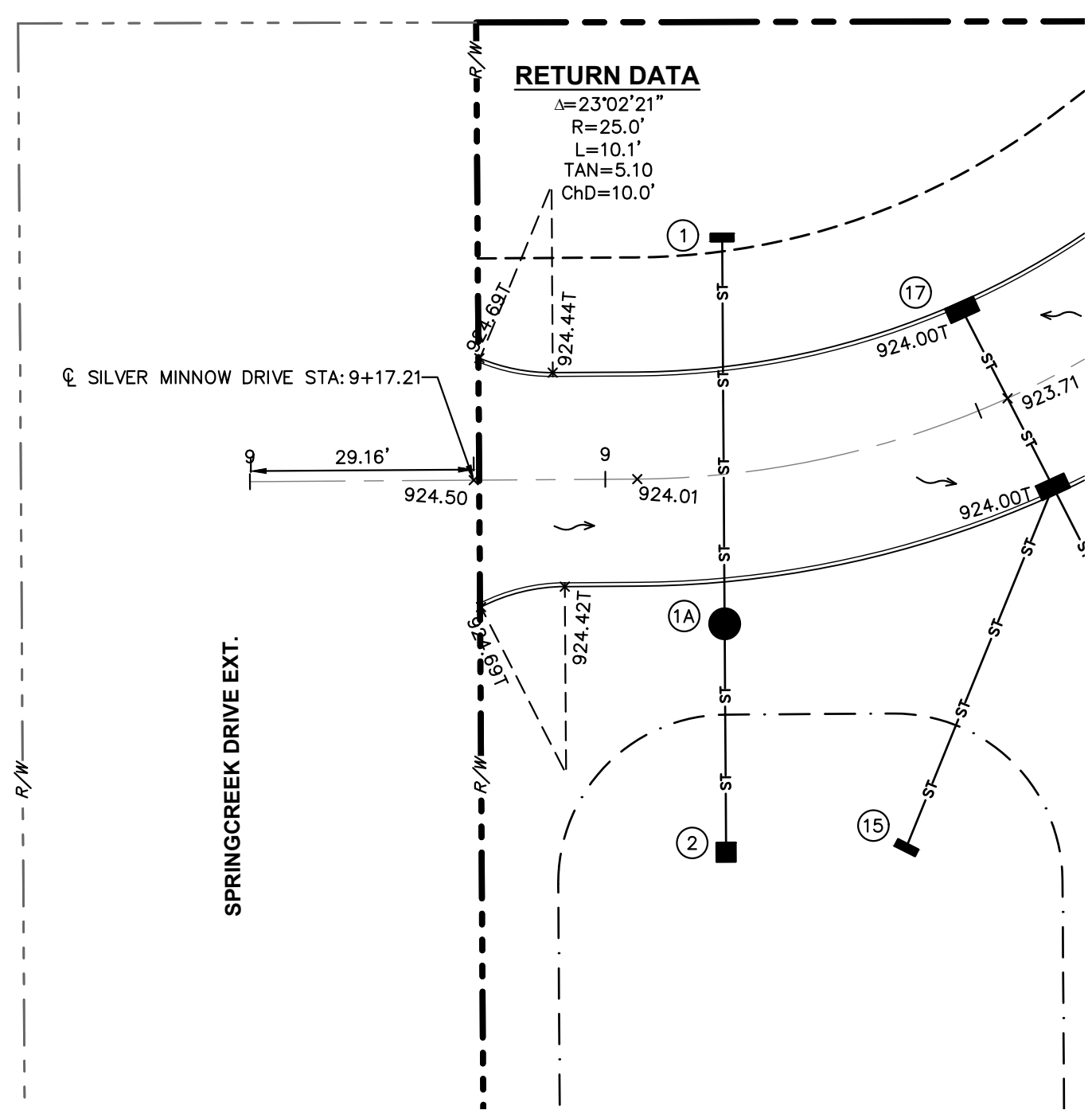
GRADING DETAILS

FILENAME	C401	SHEET
SCALE	AS SHOWN	7 OF 27



- LEGEND**
- x927.71 PROPOSED SPOT ELEVATION
 - x927.71T PROPOSED TOP OF CURB
 - x927.71B PROPOSED BOTTOM OF CURB
 - xTC 927.71 PROPOSED TOP OF CASTING
 - DRAINAGE ARROW
 - GEOGRID, SEE NOTE 4 BELOW

- NOTES**
- CURB DATA INCLUDED IN THE INTERSECTION DETAILS REFLECTS DESIGN AT THE TOP OF CURB. SLOPES INCLUDED IN THE INTERSECTION DETAILS REFLECTS DESIGN AT THE EDGE OF PAVEMENT.
 - REFER TO PLAN AND PROFILE FOR INFORMATION PERTAINING TO PROPOSED VERTICAL CURVES.
 - REFER TO SPRINGCREEK DRIVE EXT. PLANS (BY OTHERS FOR ADDITIONAL INFORMATION RELATING TO PROPOSED SPRINGCREEK DRIVE EXT. IMPROVEMENTS.
 - CONTRACTOR SHALL INSTALL GEOGRID, CONFORMING TO ODOT SUPPLEMENTAL SPECIFICATION 861, BENEATH AGGREGATE BASE COURSE AT BOTH DRIVEWAY LOCATIONS.



- NOTES**
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO CONSTRUCTION.
 - ALL ELEVATIONS SHOWN ON THIS PLAN ARE NAVD 88.
 - 18" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.
 - 18" MINIMUM OUT TO OUT VERTICAL CLEARANCE AND 10' HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.
- LIMITS OF COMPACTED GRANULAR BACKFILL PER CITY OF COLUMBUS STD DWG 2179.



PROJECT MANAGER	BAS
DESIGN	SRS
DRAWN	SRS
QA/QC	NSS
DATE	NOV 2021
PROJECT NUMBER	190115000

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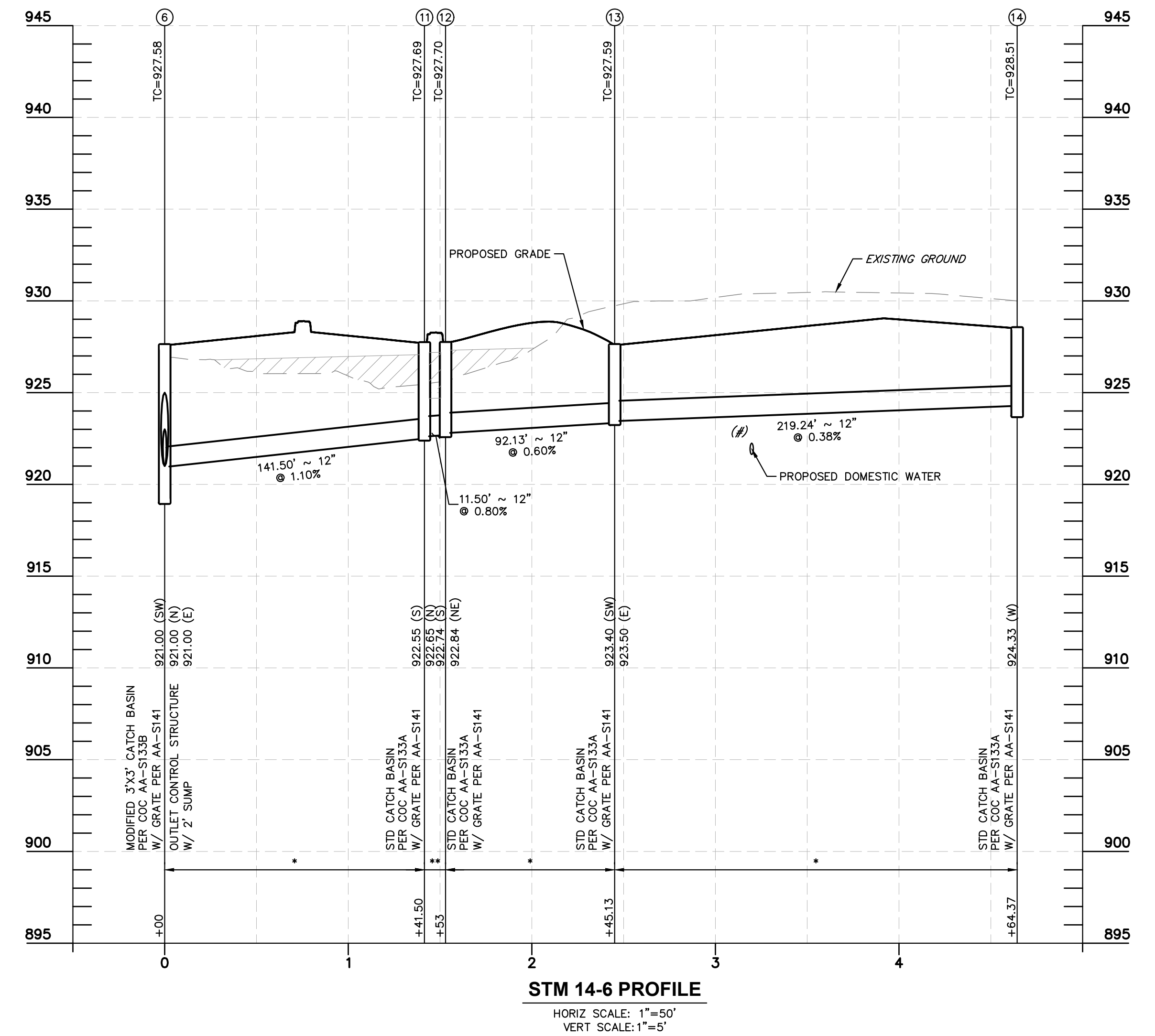
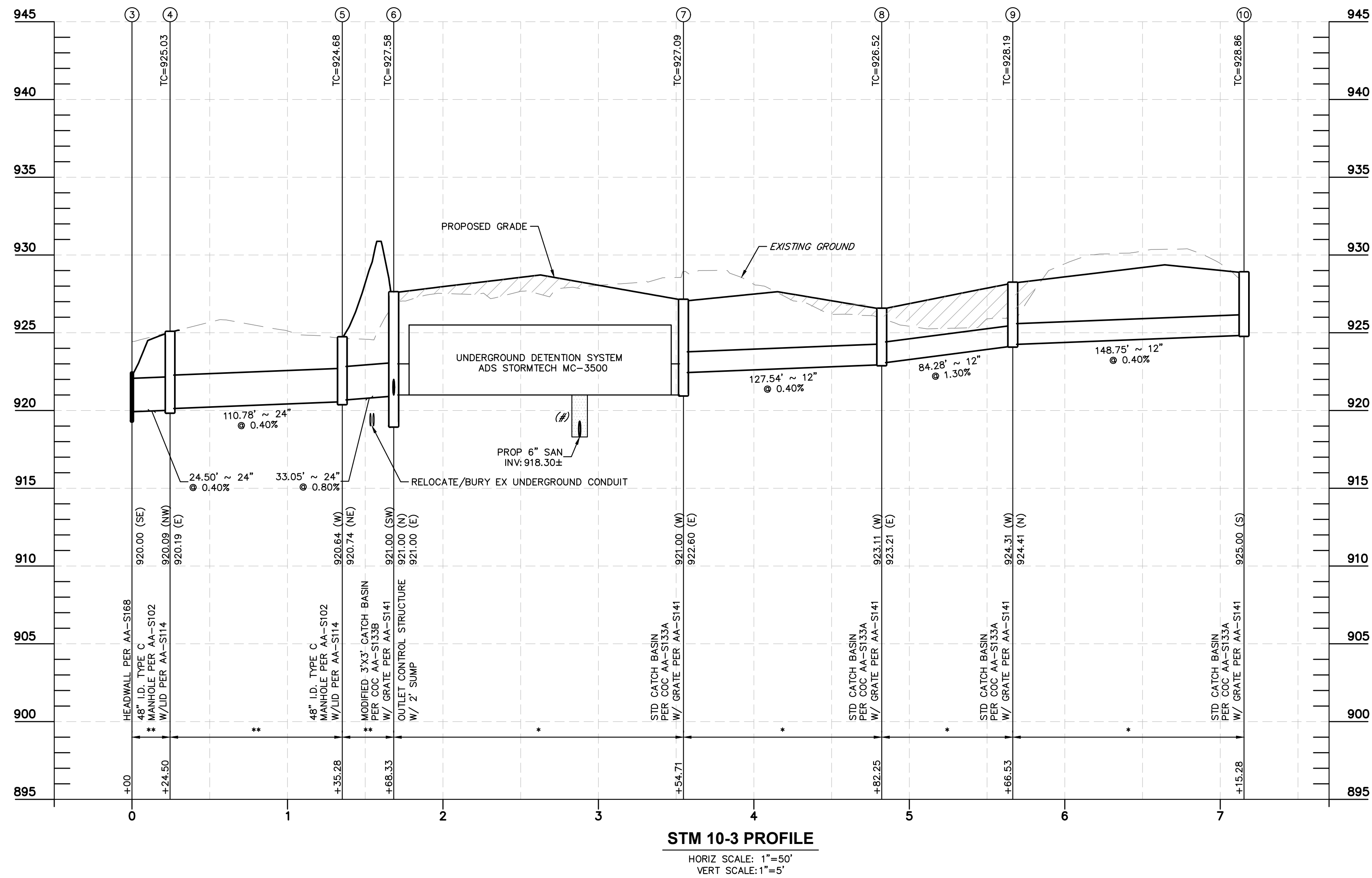
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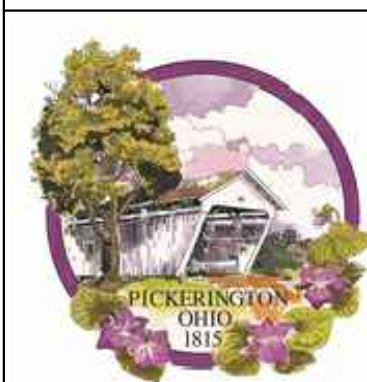
INTERSECTION DETAILS & SANITARY PROFILES

FILENAME	C500	SHEET
SCALE	AS SHOWN	8 OF 27



NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.
 2. ALL ELEVATIONS SHOWN ON THIS PLAN ARE NAVD 88.
 3. 18" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.
 4. CONTRACTOR TO RECONSTRUCT TO PROPOSED GRADE, ITEM 604, USING GRADE RINGS OR CONCRETE RISERS. ADD ADDITIONAL STEPS AS NEEDED.
- * COMPACTED GRANULAR BACKFILL, ITEM 912.
 - ** COMPACTED NATIVE BACKFILL, ITEM 911, SHALL BE COMPACTED IN HORIZONTAL LIFTS, WITH LOOSE THICKNESS NOT EXCEEDING 8 INCHES. EACH LIFT SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE "STANDARD" COMPACTION TEST (ASTM 3-698).
 - (#) 18" MINIMUM OUT TO OUT VERTICAL CLEARANCE AND 10' HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.
- PROVIDE 30" COMPACT FILL ABOVE TOP OF PIPE PRIOR TO STORM SEWER INSTALLATION PER CITY OF COLUMBUS ITEM 203.
 LIMITS OF COMPACTED GRANULAR BACKFILL PER CITY OF COLUMBUS STD DWG 2179.



PROJECT MANAGER	BAS	
DESIGN	SRS	
DRAWN	SRS	
QA/QC	NSS	
DATE	NOV 2021	
PROJECT NUMBER	190115000	
ISSUE	DATE	DESCRIPTION

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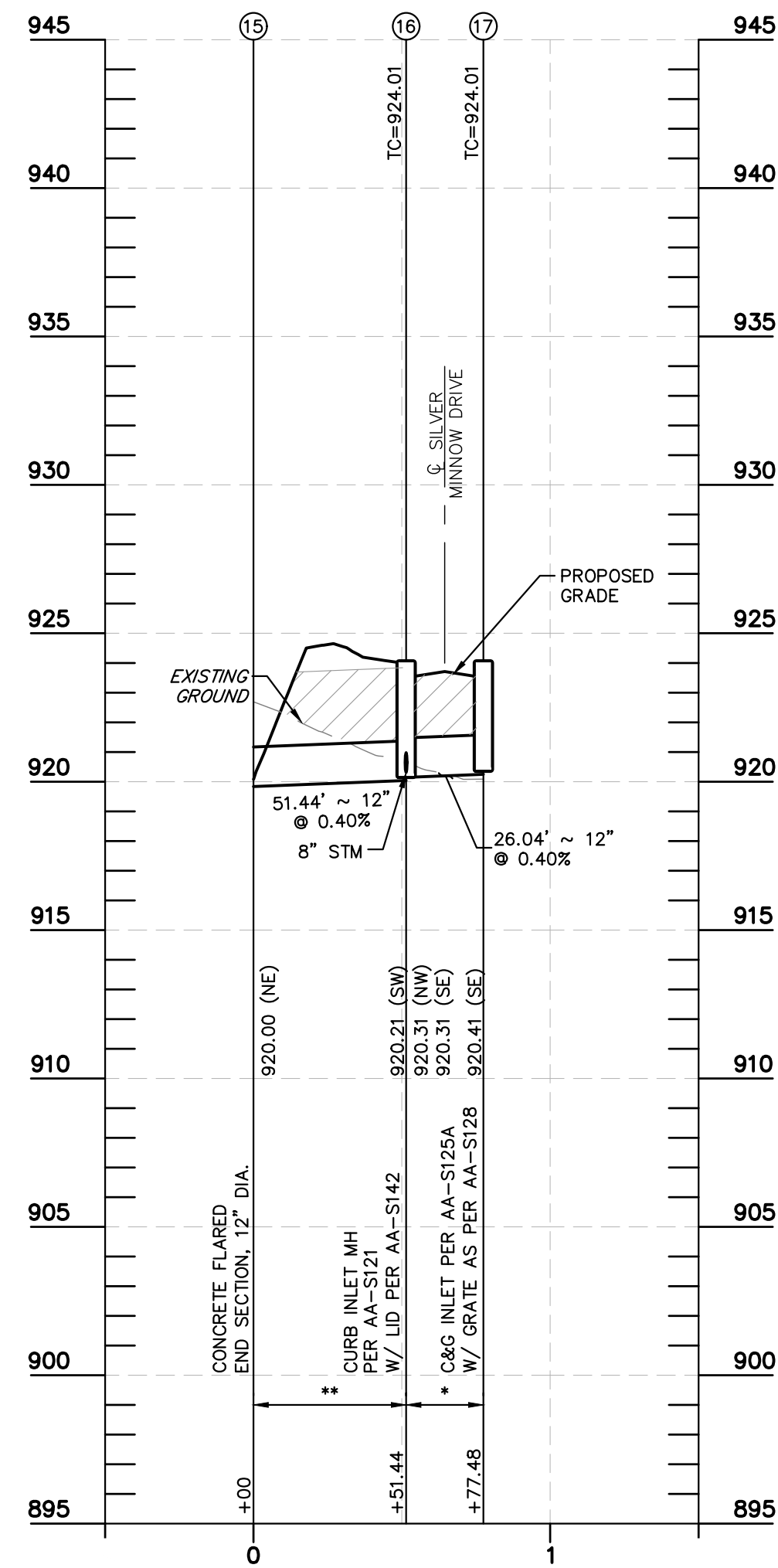
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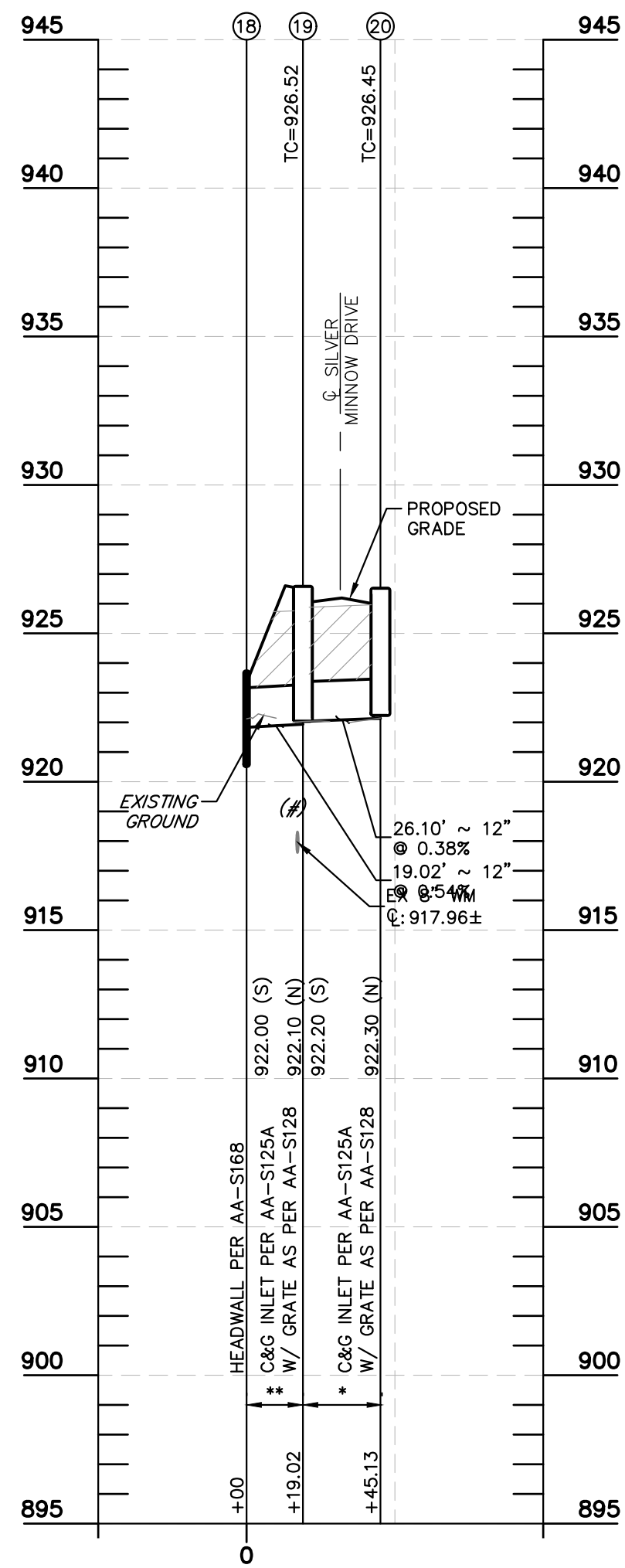
8140, 8180, 8220 REFUGEE ROAD
PICKERINGTON, OHIO 43147

STORM PROFILES

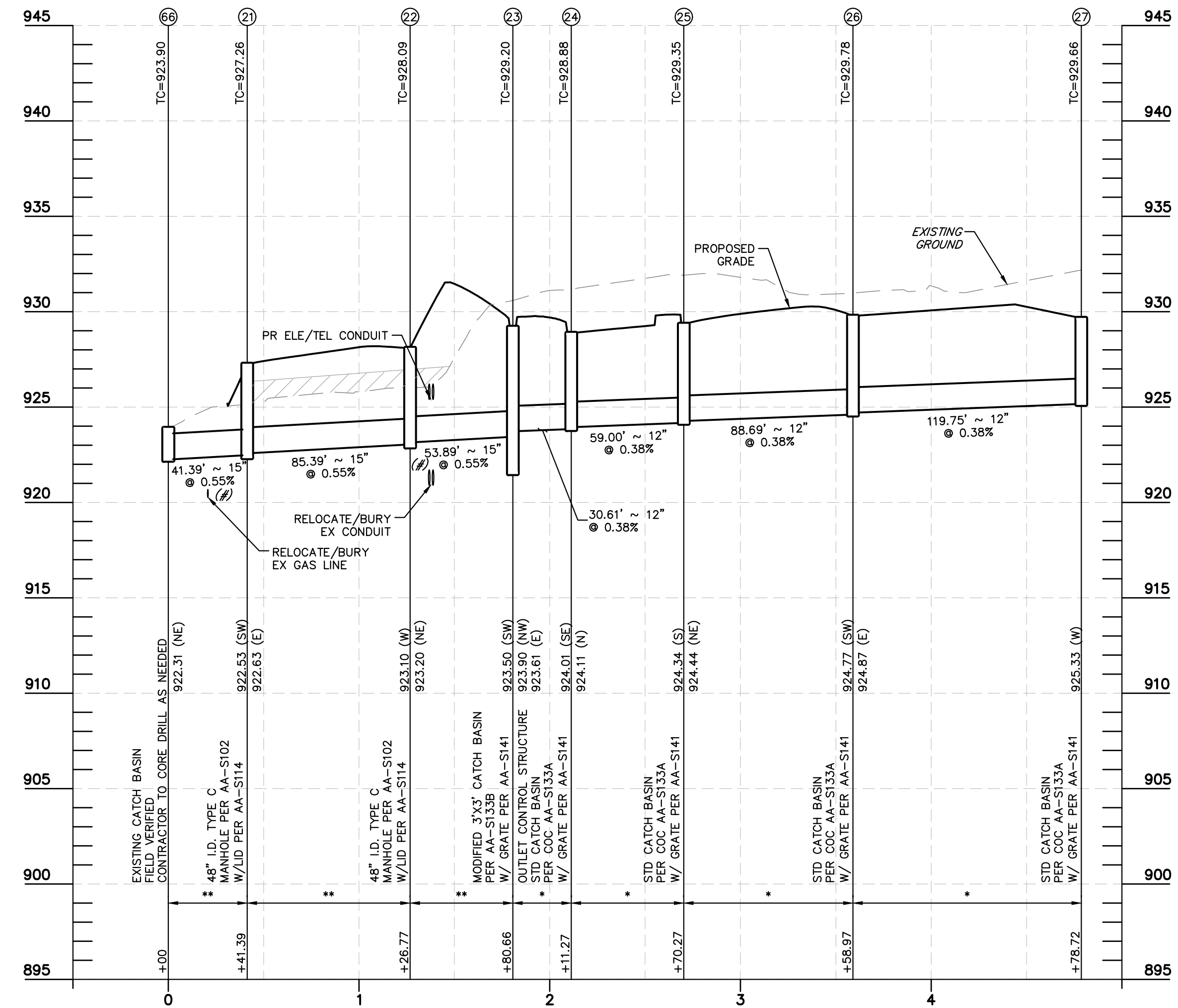
FILENAME	C600	SHEET
SCALE	AS SHOWN	9 OF 27



STM 17-15 PROFILE
 HORIZ SCALE: 1"=50'
 VERT SCALE: 1"=5'

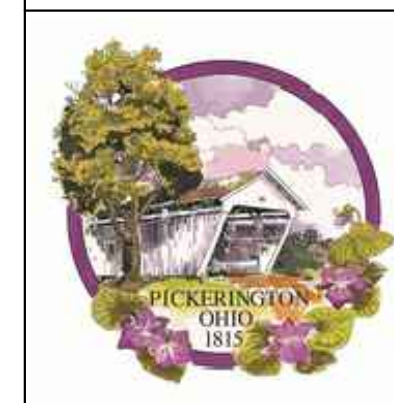


STM 20-18 PROFILE
 HORIZ SCALE: 1"=50'
 VERT SCALE: 1"=5'



STM 27-22 PROFILE
 HORIZ SCALE: 1"=50'
 VERT SCALE: 1"=5'

- NOTES**
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.
 - ALL ELEVATIONS SHOWN ON THIS PLAN ARE NAVD 88.
 - 18" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.
 - CONTRACTOR TO RECONSTRUCT TO PROPOSED GRADE, ITEM 604, USING GRADE RINGS OR CONCRETE RISERS. ADD ADDITIONAL STEPS AS NEEDED.
- * COMPACTED GRANULAR BACKFILL, ITEM 912.
 - ** COMPACTED NATIVE BACKFILL, ITEM 911, SHALL BE COMPACTED IN HORIZONTAL LIFTS, WITH LOOSE THICKNESS NOT EXCEEDING 8 INCHES. EACH LIFT SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE "STANDARD" COMPACTION TEST (ASTM 3-698).
 - (#) 18" MINIMUM OUT TO OUT VERTICAL CLEARANCE AND 10' HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.
- PROVIDE 30" COMPACT FILL ABOVE TOP OF PIPE PRIOR TO STORM SEWER INSTALLATION PER CITY OF COLUMBUS ITEM 203.
 LIMITS OF COMPACTED GRANULAR BACKFILL PER CITY OF COLUMBUS STD DWG 2179.

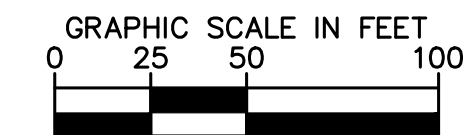
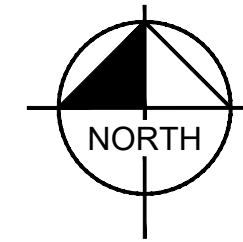


PROJECT MANAGER	BAS	
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DRAWN	SRS	
QA/QC	NSS	
DATE	NOV 2021	
PROJECT NUMBER	190115000	
ISSUE	DATE	DESCRIPTION



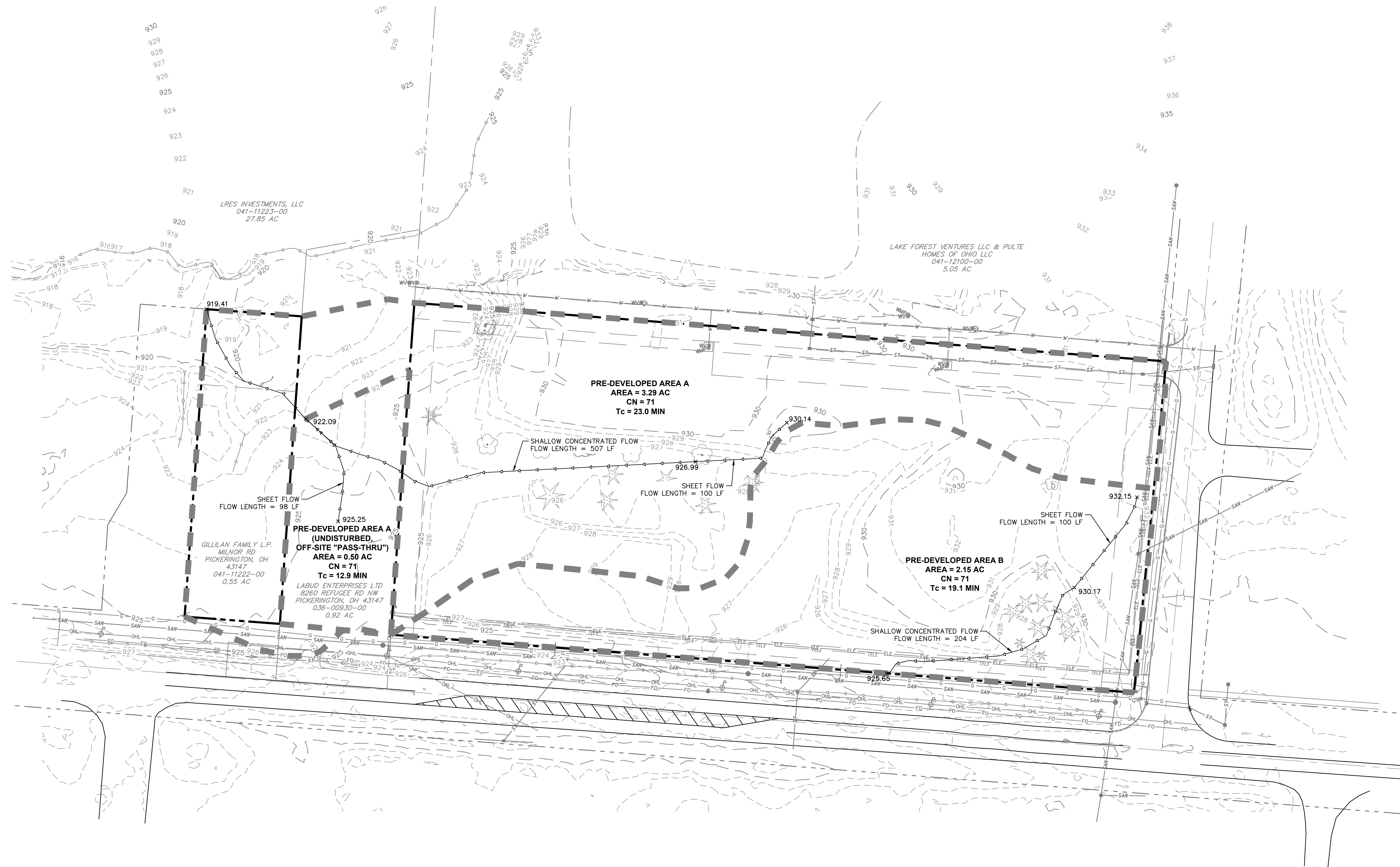
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 PICKERINGTON, OHIO 43147

STORM PROFILES		
FILENAME	C601	SHEET
SCALE	AS SHOWN	10 OF 27



LEGEND

- EXISTING SITE BOUNDARY
- - - EXISTING PROPERTY LINE
- - - EXISTING RIGHT-OF-WAY
- ==== EXISTING PAVEMENT
- ==== EXISTING CURB
- ==== EXISTING ROAD CENTERLINE
- EXISTING EASEMENT
- EXISTING STORM LINE
- SAN --- SAN --- SAN --- EXISTING SANITARY LINE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING WATER LINE
- EXISTING HYDRANT
- EXISTING VALVE
- OHL --- OHL --- OHL --- EXISTING OVERHEAD LINE
- ELE --- ELE --- ELE --- EXISTING UNDERGROUND ELECTRIC
- TELE --- TELE --- TELE --- EXISTING TELEPHONE LINE
- EXISTING POWER POLE
- EXISTING FIBER OPTIC LINE
- EXISTING DITCH
- XXX --- EXISTING CONTOUR
- x927.71 SPOT ELEVATION



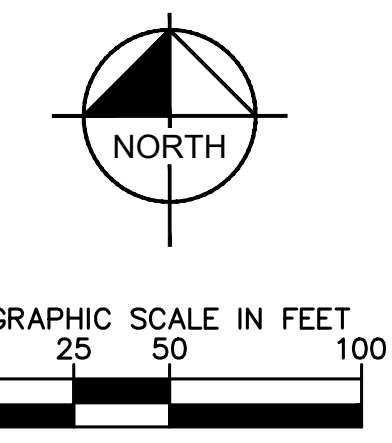
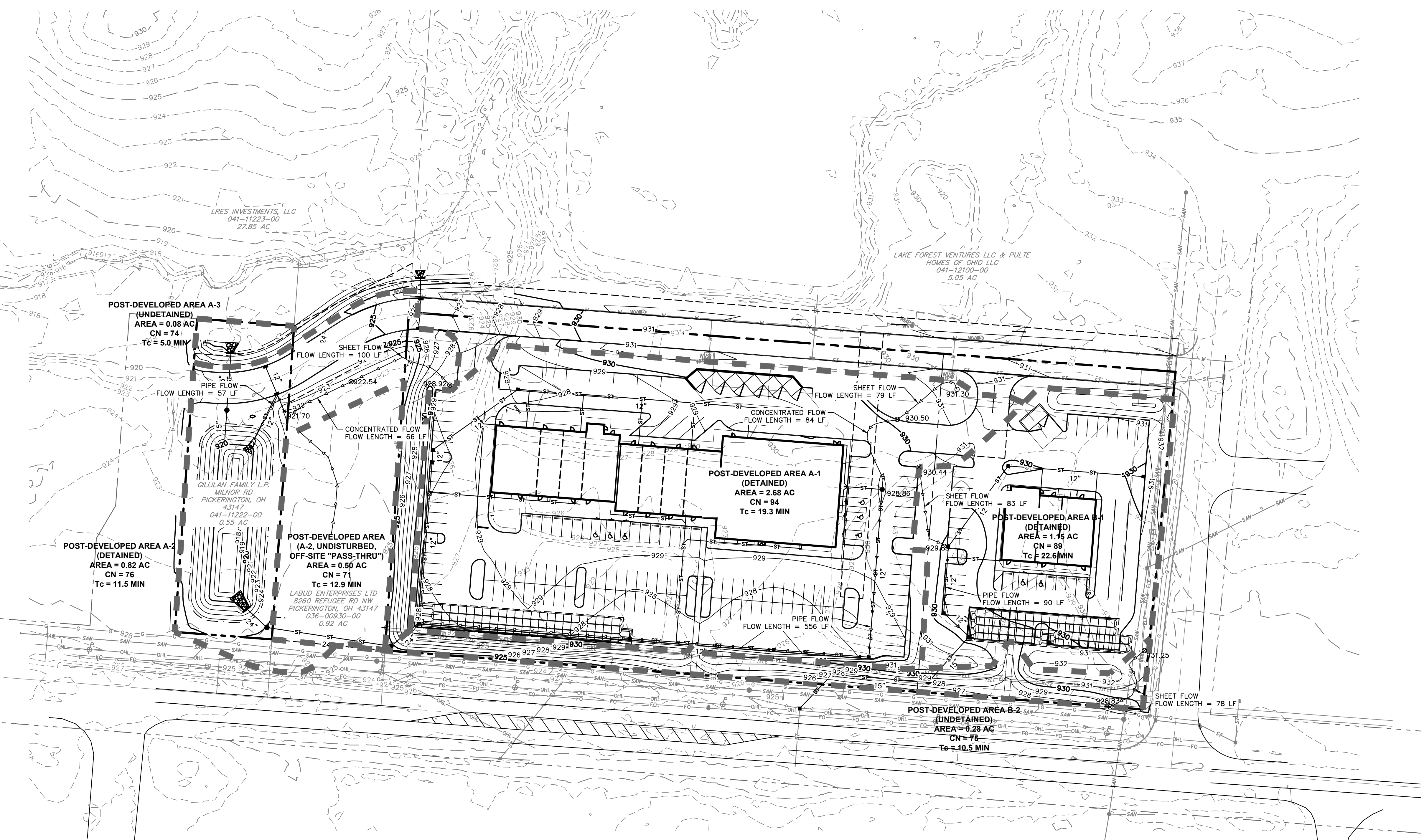
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DESIGN	SRS	
DRAWN	SRS	
QA/QC	NSS	
DATE	NOV 2021	
PROJECT NUMBER	190115000	
ISSUE	DATE	DESCRIPTION

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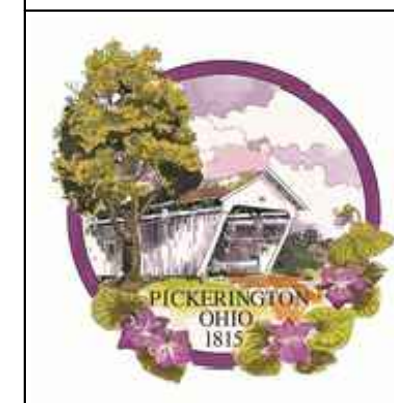
PRE-DEVELOPED TRIBUTARY AREA MAP

FILENAME	C602	SHEET
SCALE	AS SHOWN	11 OF 27



LEGEND

	EXISTING SITE BOUNDARY
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING PAVEMENT
	EXISTING CURB
	EXISTING ROAD CENTERLINE
	EXISTING EASEMENT
	EXISTING STORM LINE
	EXISTING SANITARY LINE
	EXISTING CATCH BASIN
	EXISTING MANHOLE
	EXISTING WATER LINE
	EXISTING HYDRANT
	EXISTING VALVE
	EXISTING OVERHEAD LINE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING TELEPHONE LINE
	EXISTING POWER POLE
	EXISTING FIBER OPTIC LINE
	EXISTING DITCH
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED CURB
	PROPOSED WATER BODY
	PROPOSED STORM SEWER
	PROPOSED CURB INLET
	PROPOSED CATCH BASIN
	PROPOSED HEADWALL
	PROPOSED WATERLINE
	PROPOSED FIRE HYDRANT
	PROPOSED SANITARY SEWER
	PROPOSED SANITARY MANHOLE
	SPOT ELEVATION



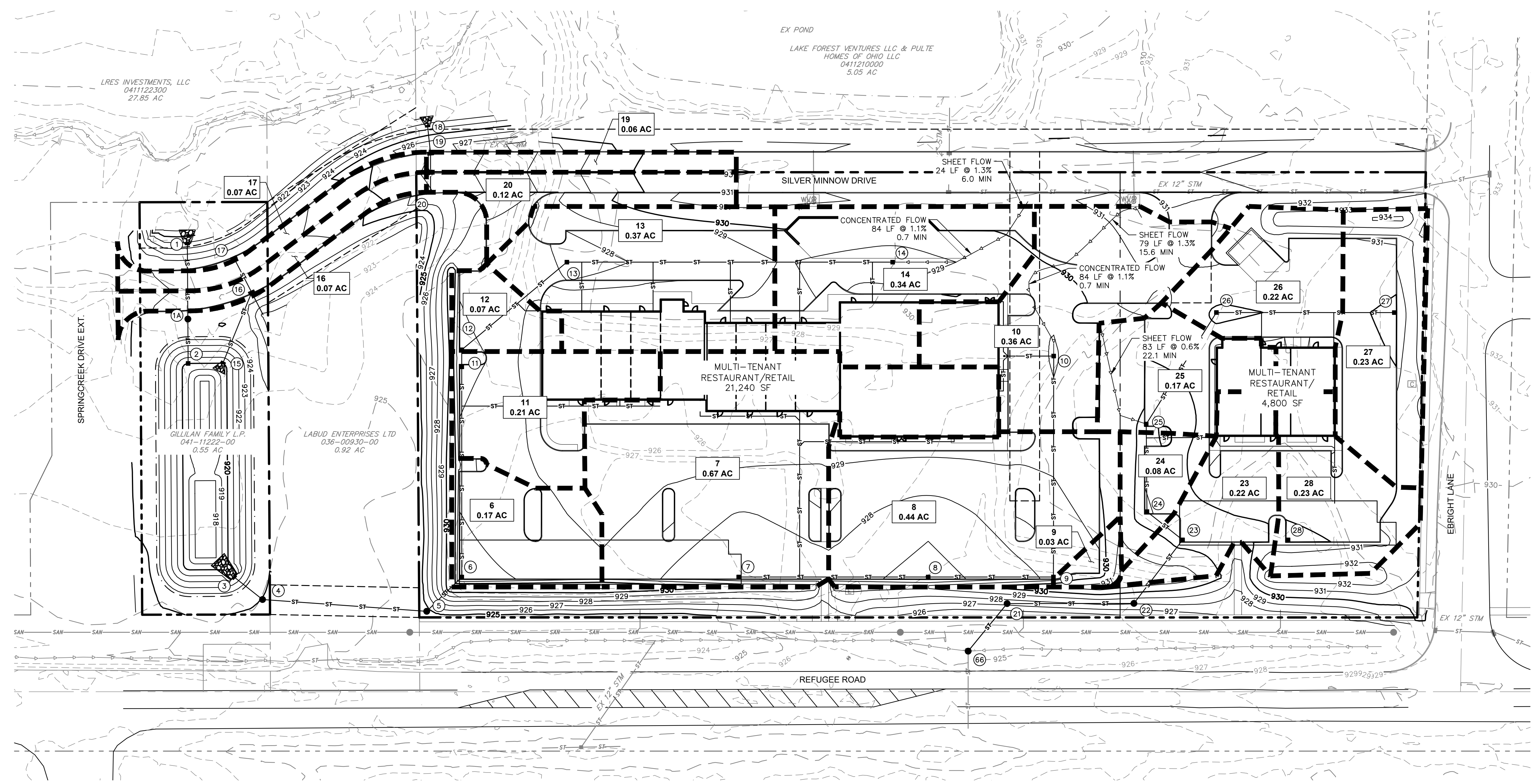
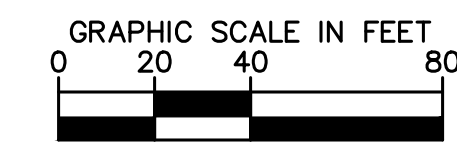
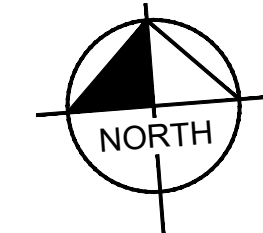
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DRAWN	SRS	
QA/QC	NSS	
DATE	NOV 2021	
PROJECT NUMBER	190115000	
ISSUE	DATE	DESCRIPTION

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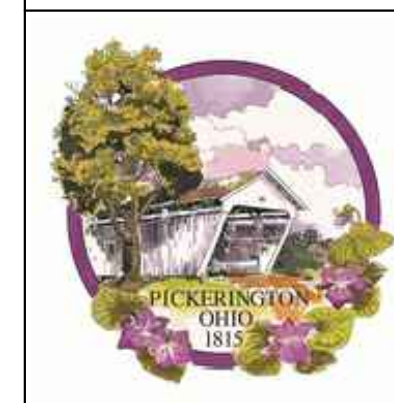
**POST-DEVELOPED TRIBUTARY
 AREA MAP**

FILENAME	C603	SHEET
SCALE	AS SHOWN	12 OF 27



LEGEND

	WATERSHED BOUNDARY
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	PROPOSED CONTOUR
	PROPOSED STORM CATCH BASIN
	PROPOSED STORM MANHOLE
	PROPOSED YARD DRAIN
	PROPOSED STORM SEWER



PROJECT MANAGER	BAS	
DESIGN	SRS	
DRAWN	SRS	
QA/QC	NSS	
DATE	NOV 2021	
PROJECT NUMBER	190115000	
ISSUE	DATE	DESCRIPTION

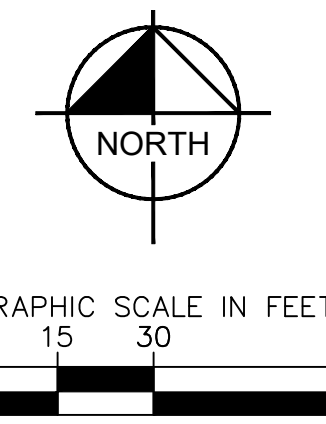
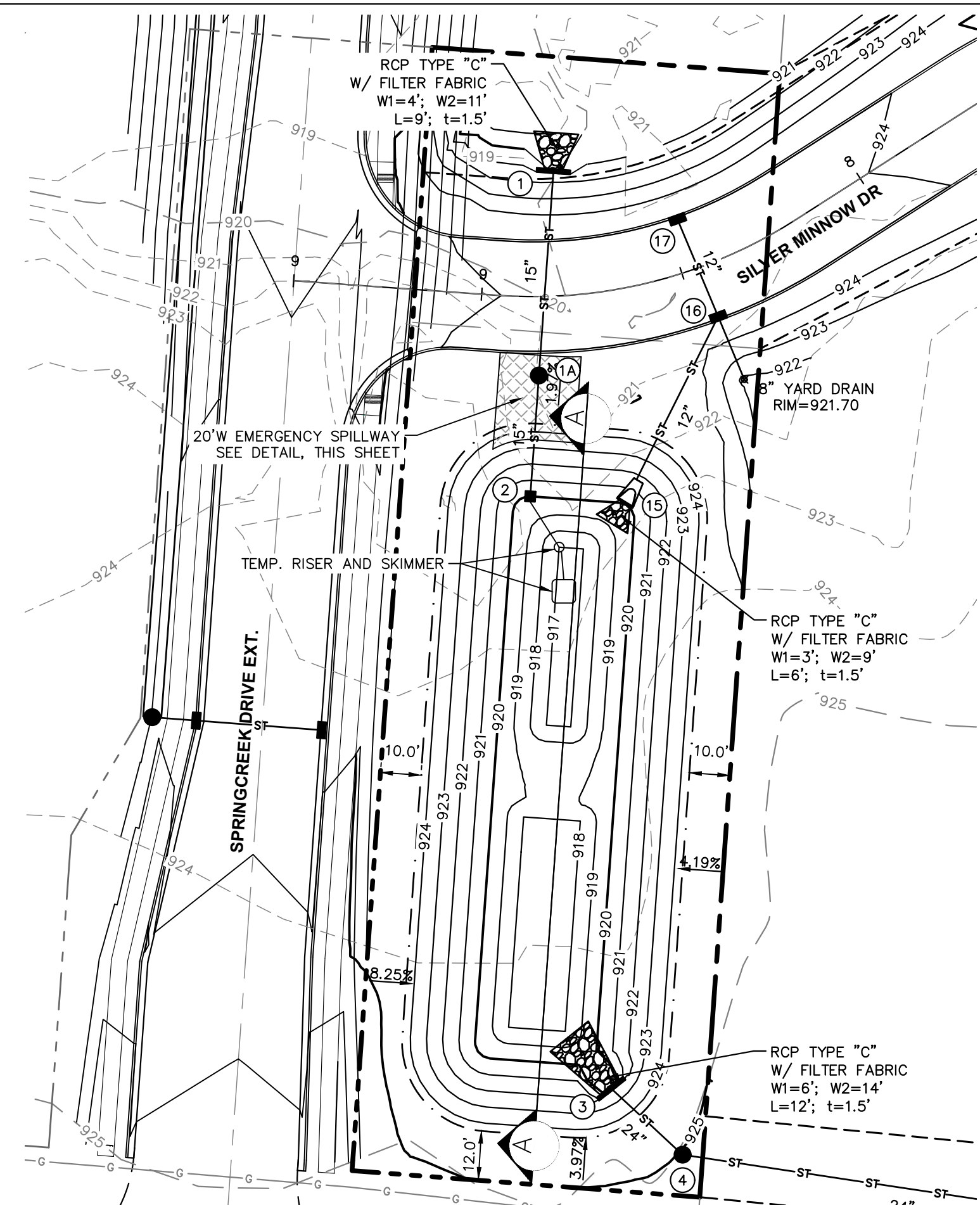
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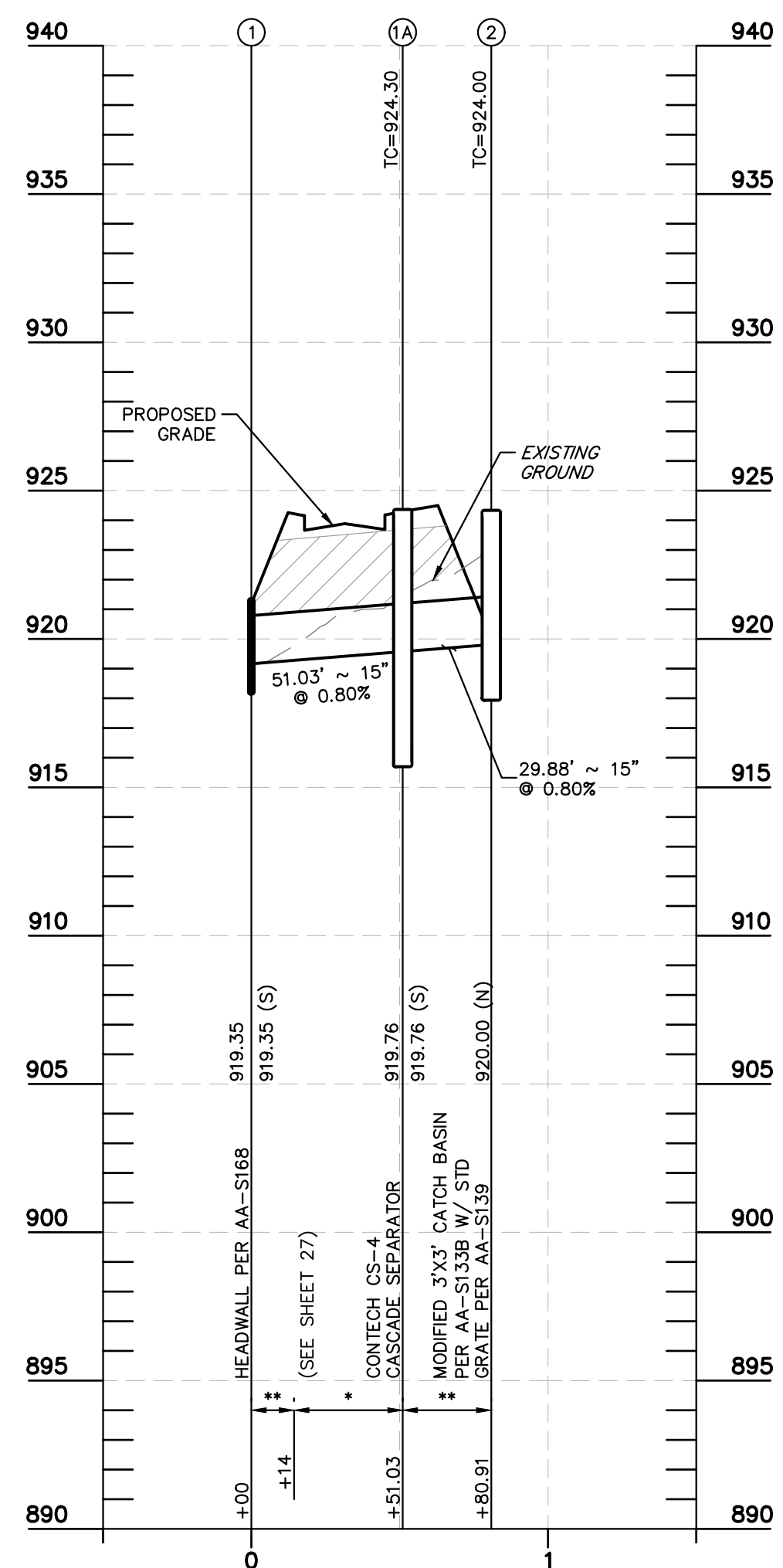
SHOPS AT EBRIGHT
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LOCAL TRIBUTARY AREA PLAN

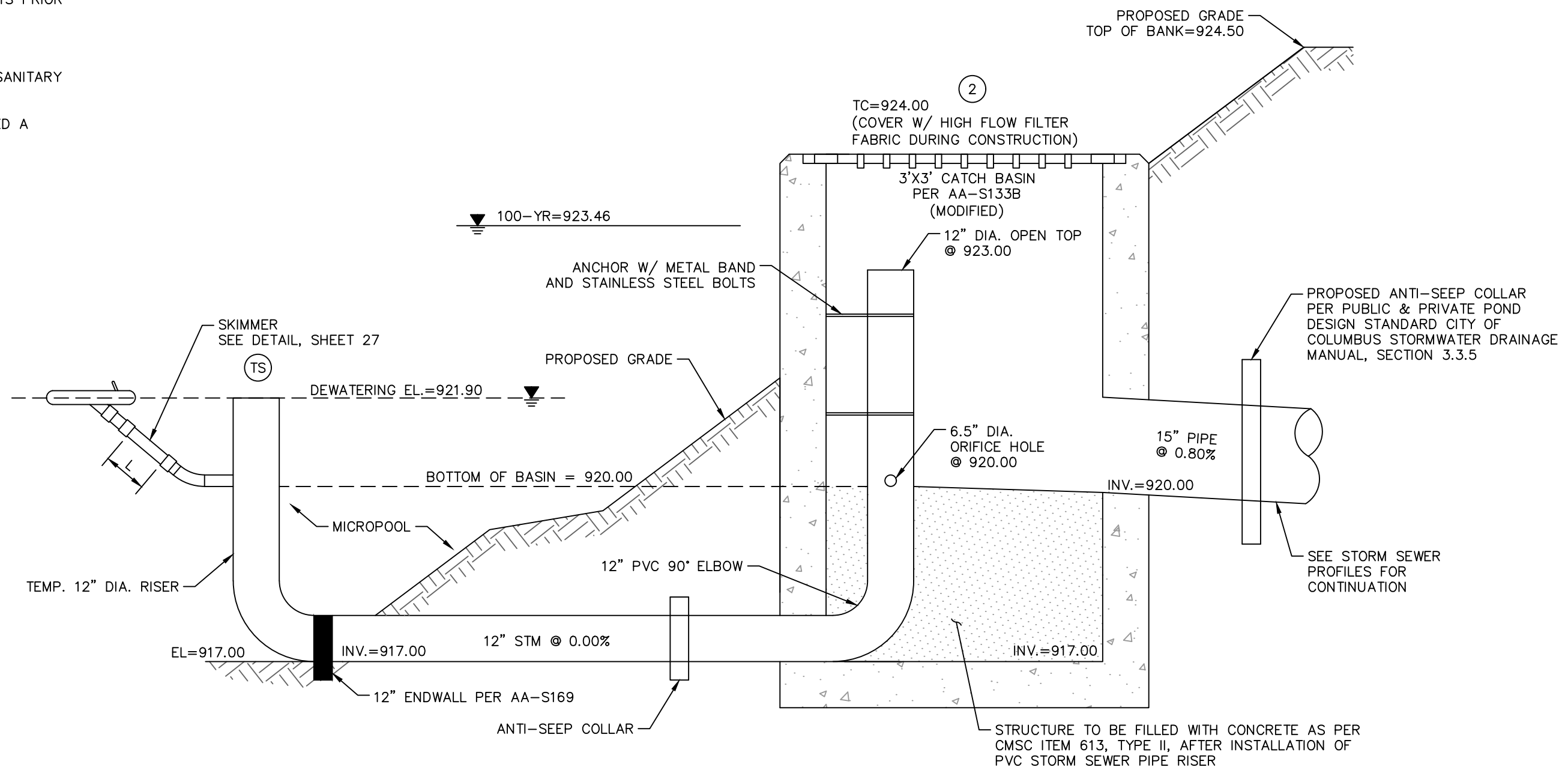
FILENAME	C604	SHEET
SCALE	AS SHOWN	13 OF 27



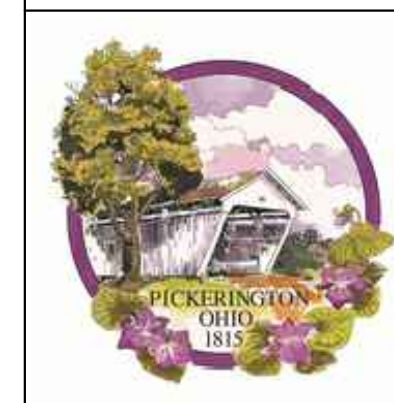
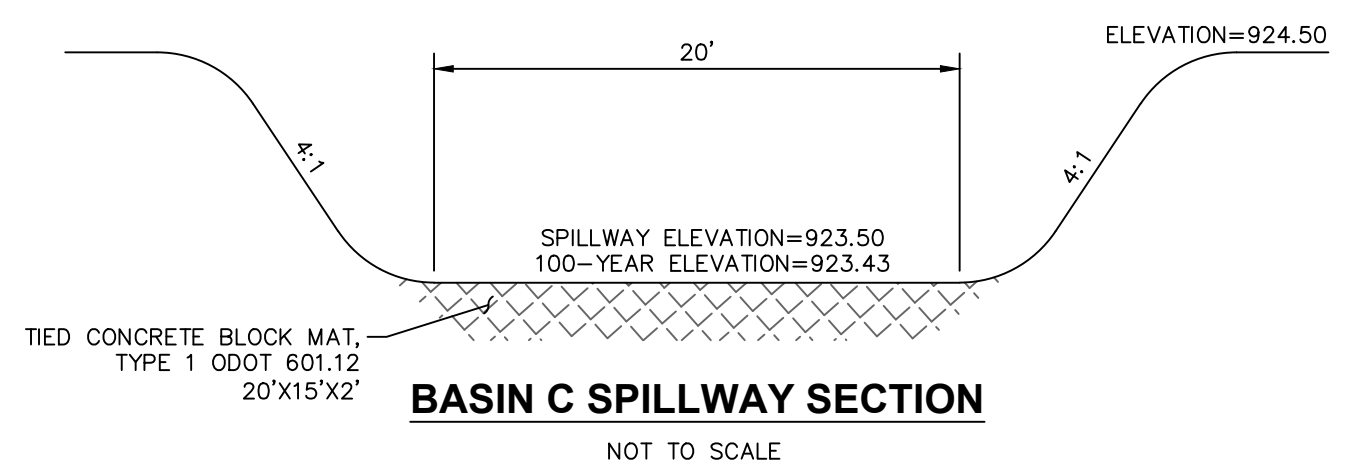
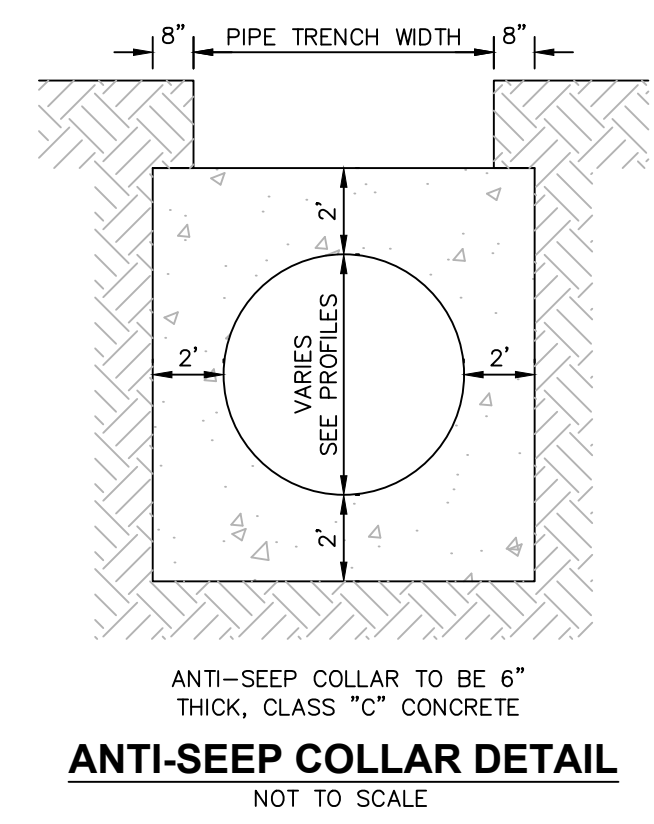
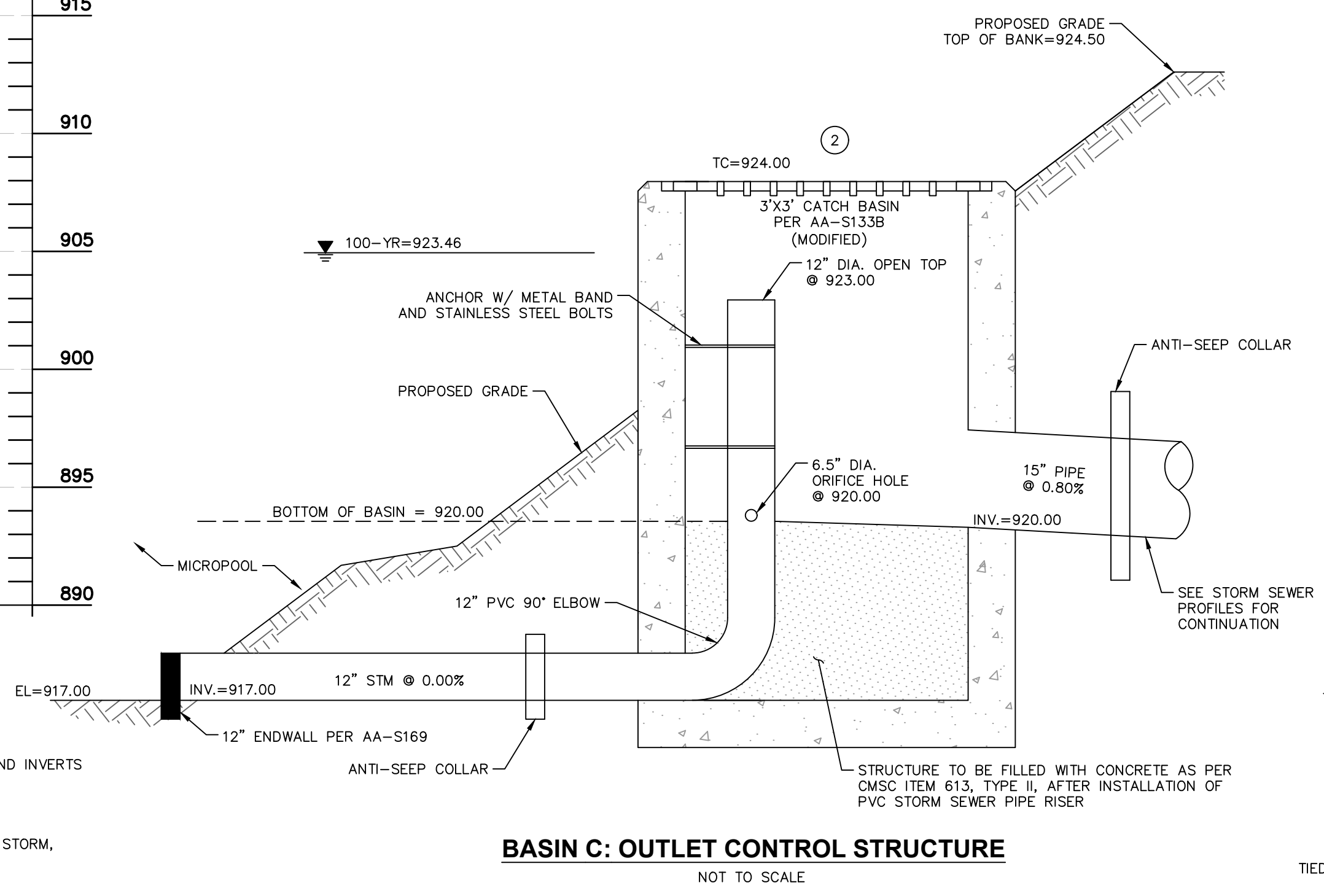
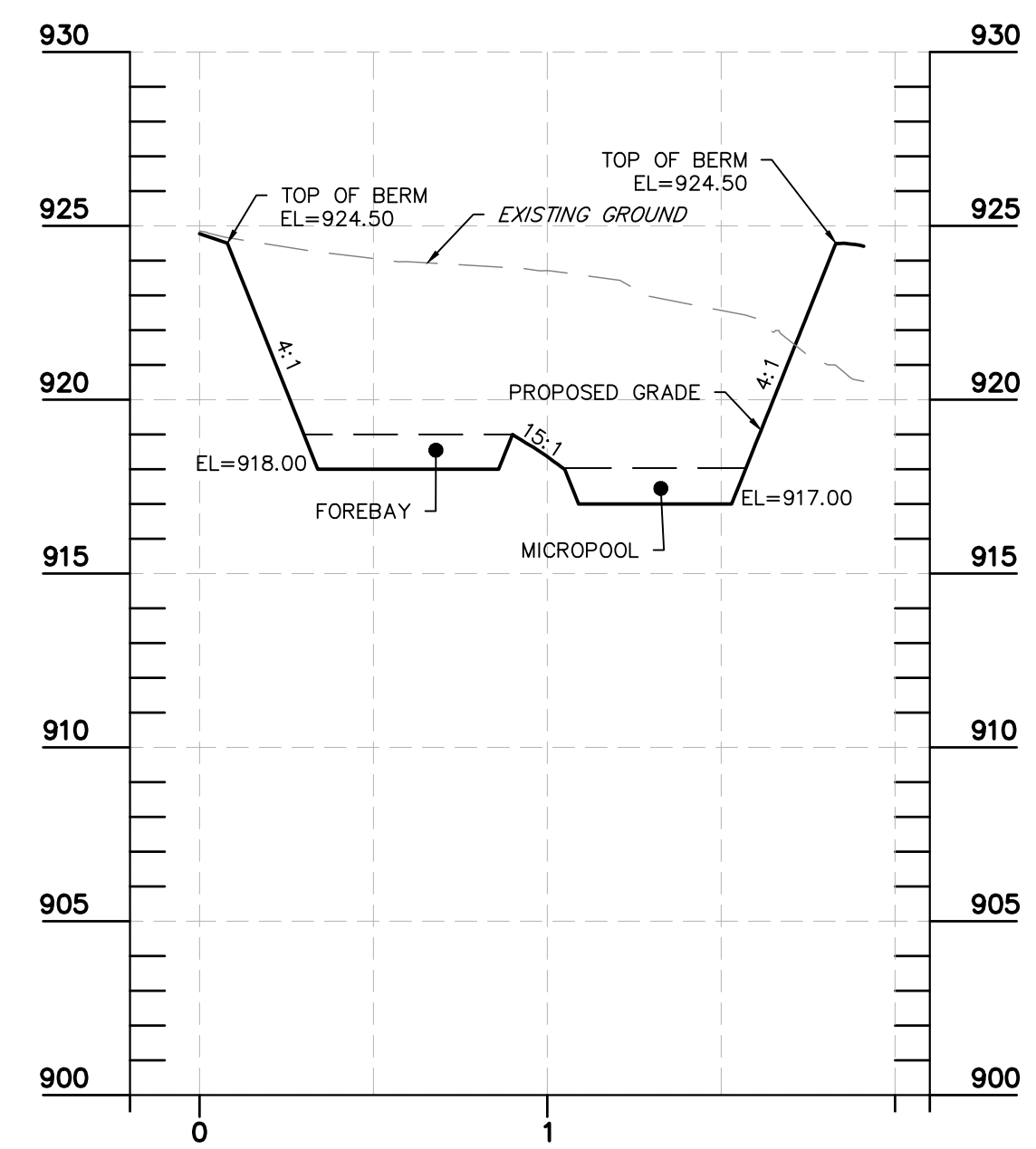
- NOTES**
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.
 - ALL ELEVATIONS SHOWN ON THIS PLAN ARE NAVD 88.
 - 18" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.
 - EMBANKMENT MATERIALS SHALL CONSIST OF COHESIVE SOILS COMPACTED A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST METHOD.
- LEGEND**
- 965 --- EXISTING INDEX CONTOUR
 - 967 --- EXISTING INTERMEDIATE CONTOUR
 - 965 --- PROPOSED INDEX CONTOUR
 - 967 --- PROPOSED INTERMEDIATE CONTOUR
 - ST --- PROPOSED STORM SEWER
 - PROPOSED CATCH BASIN
 - PROPOSED CURB INLET
 - PROPOSED HEADWALL



- NOTES**
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.
 - ALL ELEVATIONS SHOWN ON THIS PLAN ARE NAVD 88.
 - 18" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.
- COMPACTED GRANULAR BACKFILL, ITEM 912.
 - COMPACTED NATIVE BACKFILL, ITEM 911, SHALL BE COMPACTED IN HORIZONTAL LIFTS, WITH LOOSE THICKNESS NOT EXCEEDING 8 INCHES. EACH LIFT SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE "STANDARD" COMPACTION TEST (ASTM 3-698).



NOTE TO CONTRACTOR:
SEDIMENT RISER INSTALLED ON CATCH BASIN FOR CONSTRUCTION TO REMAIN INSTALLED THROUGHOUT ENTIRE CONSTRUCTION OF THE PROJECT. SEDIMENT TO BE REMOVED WHEN IT REACHES ELEVATION 919.00.



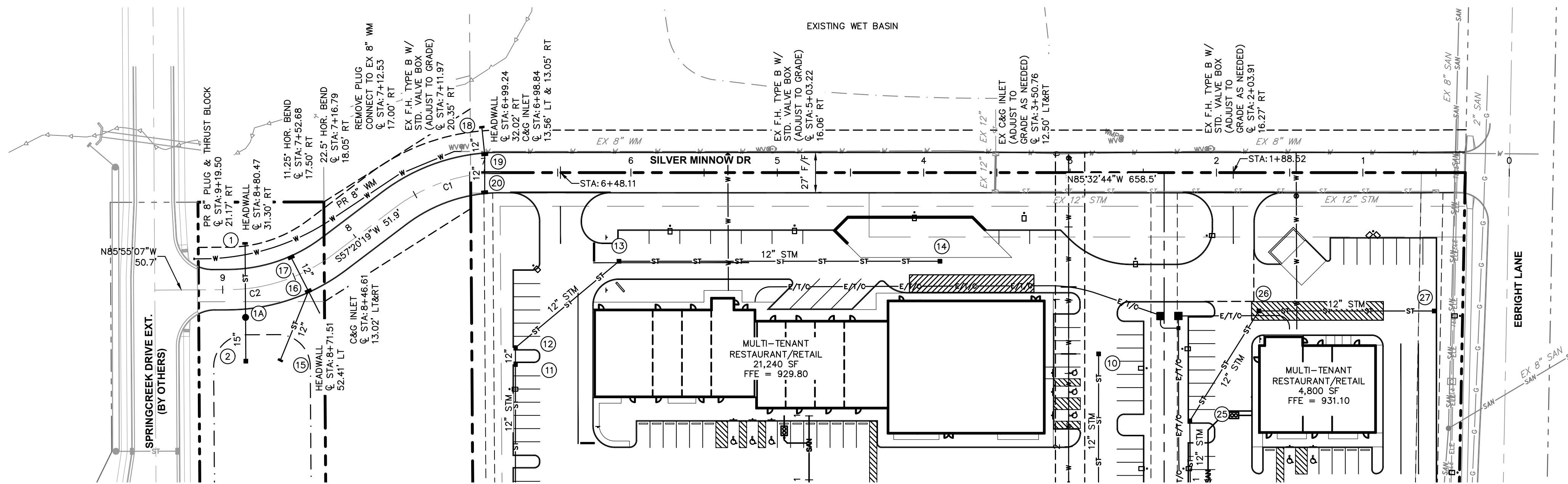
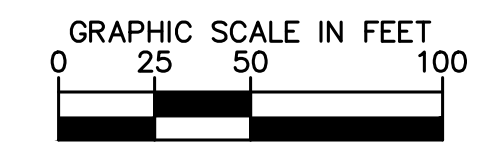
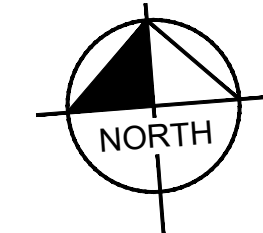
PROJECT MANAGER	BAS	
DESIGN	SRS	
DRAWN	SRS	
QA/QC	NSS	
DATE	NOV 2021	
PROJECT NUMBER	190115000	
ISSUE	DATE	DESCRIPTION

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COLUMBUS, OH 43235
PHONE: 614-454-6697
WWW.KIMLEY-HORN.COM

SHOPS AT EBRIGHT
8140, 8180, 8220 REFUGEE ROAD
PICKERINGTON, OHIO 43147

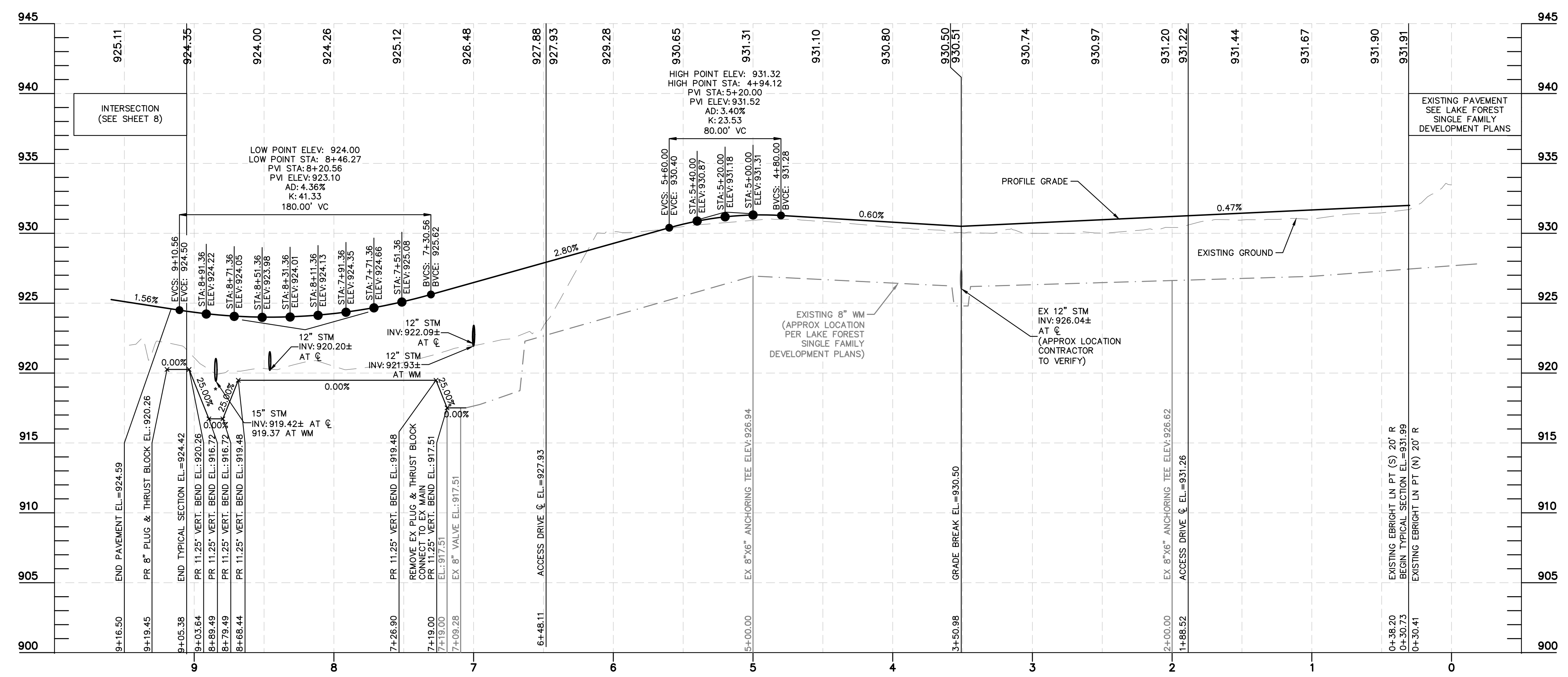
BASIN DETAILS

FILENAME	C605	SHEET
SCALE	AS SHOWN	14 OF 27



LEGEND

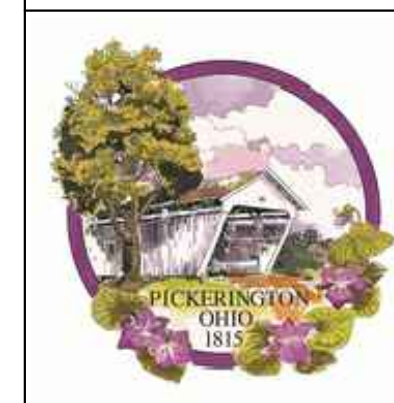
---	EXISTING SITE BOUNDARY
---	EXISTING PROPERTY LINE
---	EXISTING RIGHT-OF-WAY
---	EXISTING PAVEMENT
---	EXISTING CURB
---	EXISTING ROAD CENTERLINE
---	EXISTING EASEMENT
---	EXISTING STORM LINE
---	EXISTING SANITARY LINE
---	EXISTING CATCH BASIN
---	EXISTING MANHOLE
---	EXISTING WATER LINE
---	EXISTING HYDRANT
---	EXISTING VALVE
---	EXISTING OVERHEAD LINE
---	EXISTING UNDERGROUND ELECTRIC
---	EXISTING TELEPHONE LINE
---	EXISTING POWER POLE
---	EXISTING FIBER OPTIC LINE
---	EXISTING DITCH
---	PROPOSED CURB
---	PROPOSED WATER BODY
---	PROPOSED STORM SEWER
---	PROPOSED CURB INLET
---	PROPOSED CATCH BASIN
---	PROPOSED HEADWALL
---	PROPOSED WATERLINE
---	PROPOSED FIRE HYDRANT
---	PROPOSED SANITARY SEWER
---	PROPOSED SANITARY MANHOLE



CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	120.00'	77.74'	S75°53'48"W	76.38'	37°06'57"	40.29'
C2	120.00'	76.95'	S75°42'36"W	75.64'	36°44'34"	39.85'

- NOTES**
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.
 - ALL ELEVATIONS SHOWN ON THIS PLAN ARE NAVD 88.
 - EASEMENTS ARE FOR THE PURPOSE OF CONSTRUCTING, USING, AND MAINTAINING PUBLIC AND PRIVATE UTILITIES ABOVE AND BENEATH THE SURFACE OF THE GROUND, AND WHERE NECESSARY, ARE FOR THE CONSTRUCTION, OPERATION AND MAINTENANCE OF SERVICE CONNECTIONS TO ALL ADJACENT LOTS AND LANDS AND FOR STORM WATER DRAINAGE.
 - ALL EXISTING TOPSOIL IN THE ROAD RIGHT-OF-WAY TO BE REMOVED. ALL FILLS SHALL BE PLACED WITH APPROVED MATERIAL PRIOR TO THE INSTALLATION OF ANY UTILITIES.
- * 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY, AND WATER LINES.



PROJECT MANAGER	BAS
DESIGN	SRS
DRAWN	SRS
QA/QC	NSS
DATE	NOV 2021
ISSUE	
DATE	
DESCRIPTION	
PROJECT NUMBER	190115000

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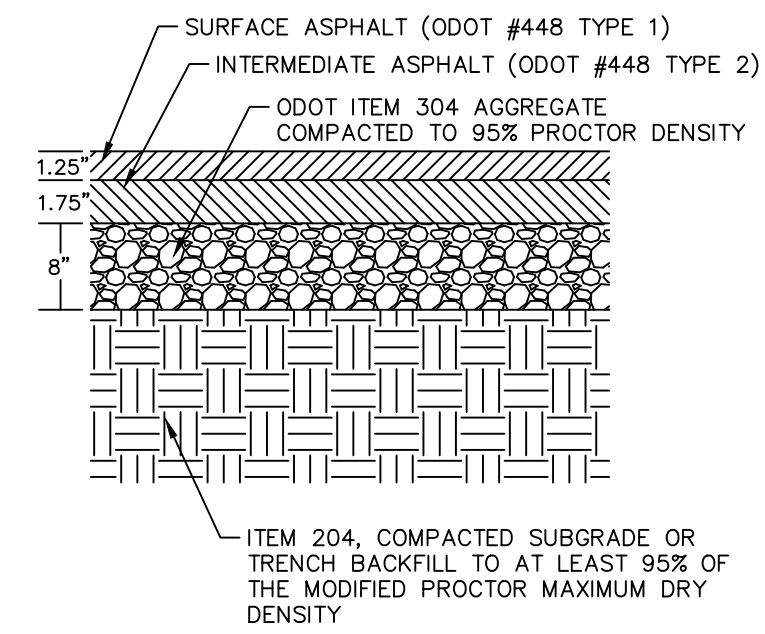
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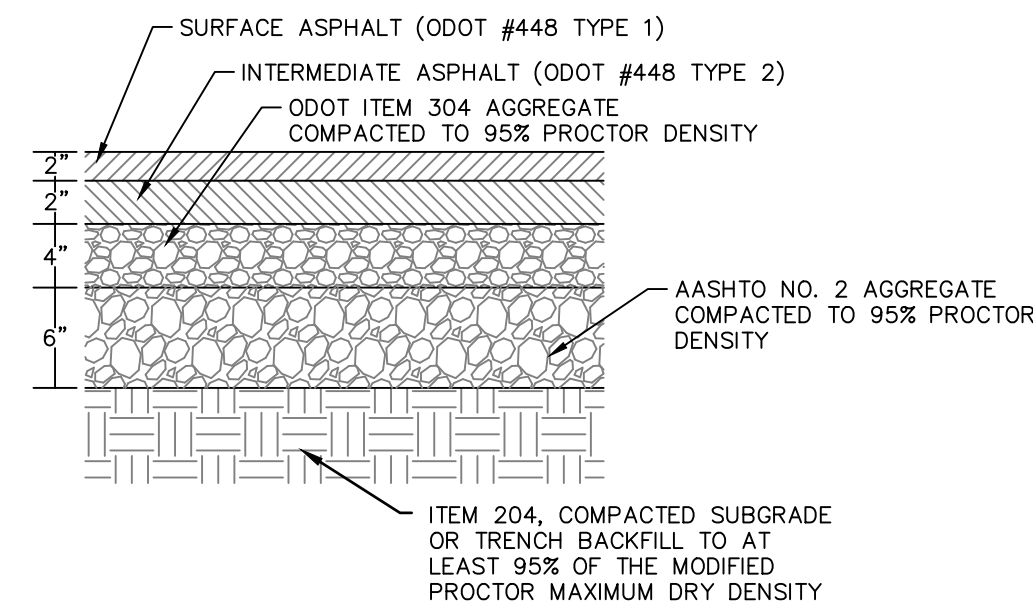
8140, 8180, 8220 REFUGEE ROAD
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PLAN & PROFILES - SILVER MINNOW DRIVE

FILENAME	C700	SHEET
SCALE	AS SHOWN	15 OF 27

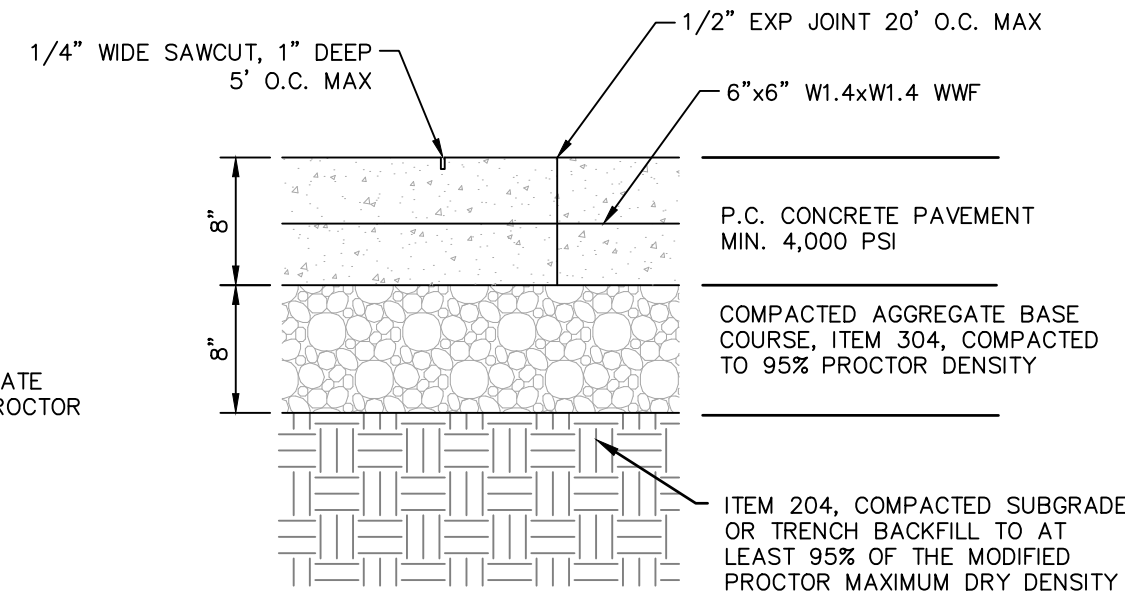


STANDARD DUTY ASPHALT PAVEMENT SECTION
N.T.S.

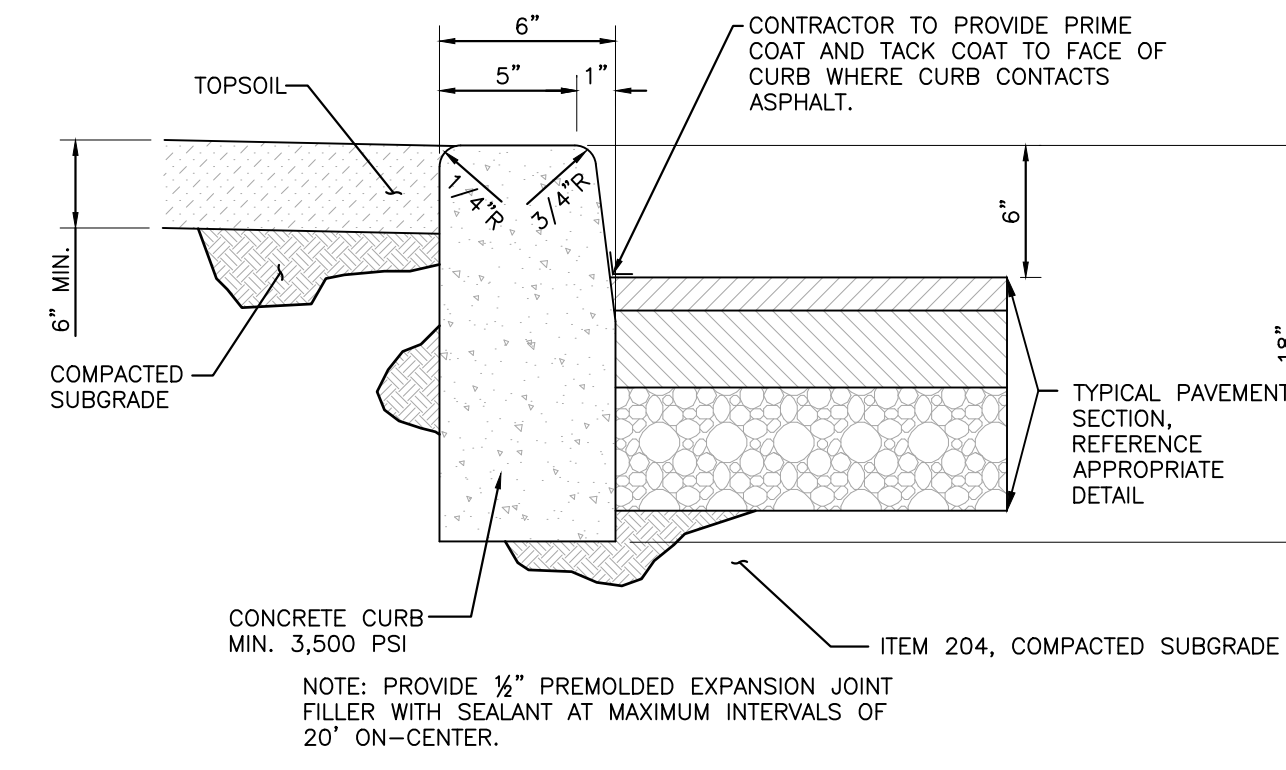


HEAVY DUTY ASPHALT PAVEMENT SECTION
N.T.S.

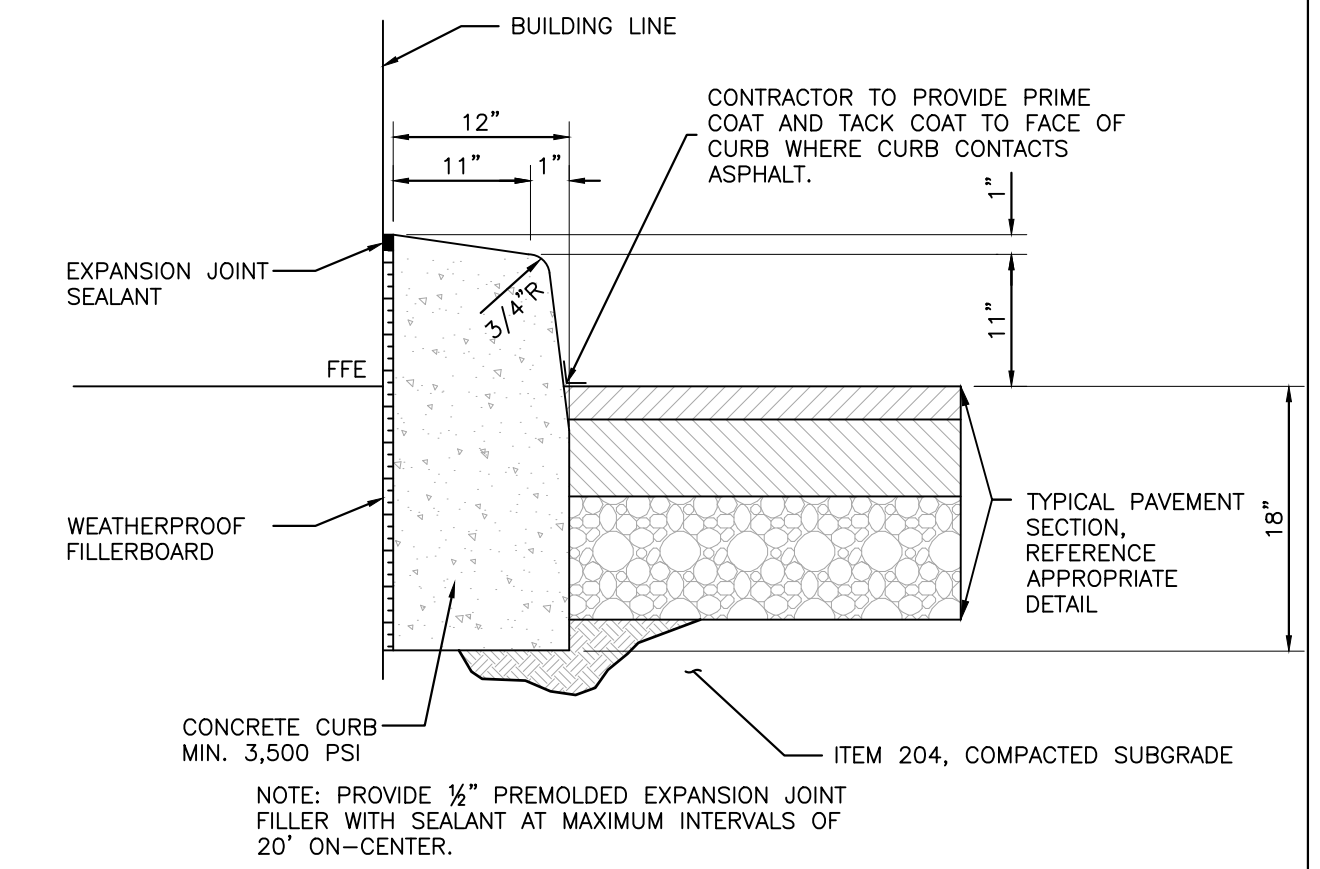
NOTE: PAVEMENT SECTIONS BASED ON GENERAL UNDERSTANDING OF PROJECT AREA. CONTRACTOR TO INSTALL RECOMMENDED SECTION OR MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER.



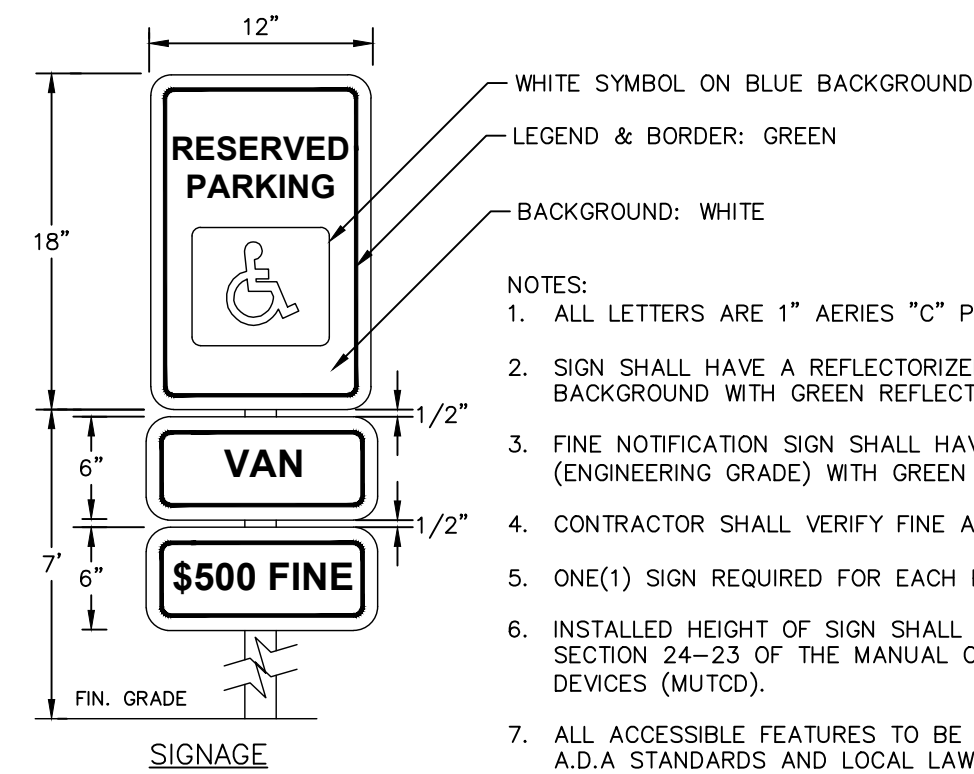
CONCRETE PAVEMENT SECTION
N.T.S.



CONCRETE CURB - STANDARD
N.T.S.

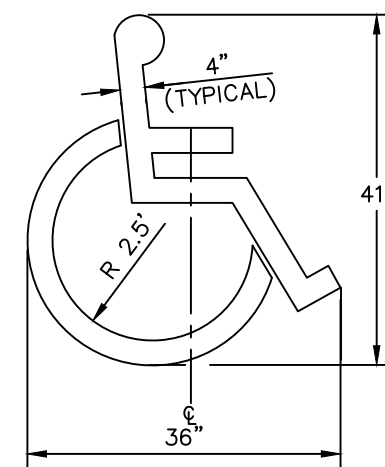


CONCRETE CURB - DRIVE THRU
N.T.S.

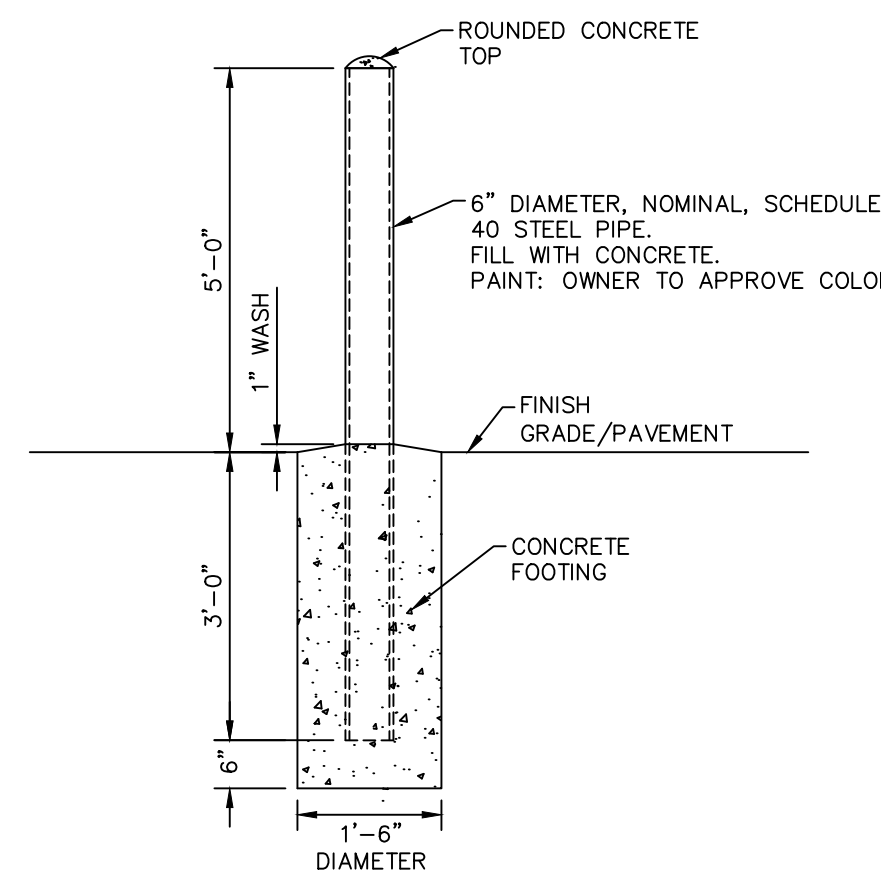


ACCESSIBLE PARKING SIGNAGE
NOT TO SCALE

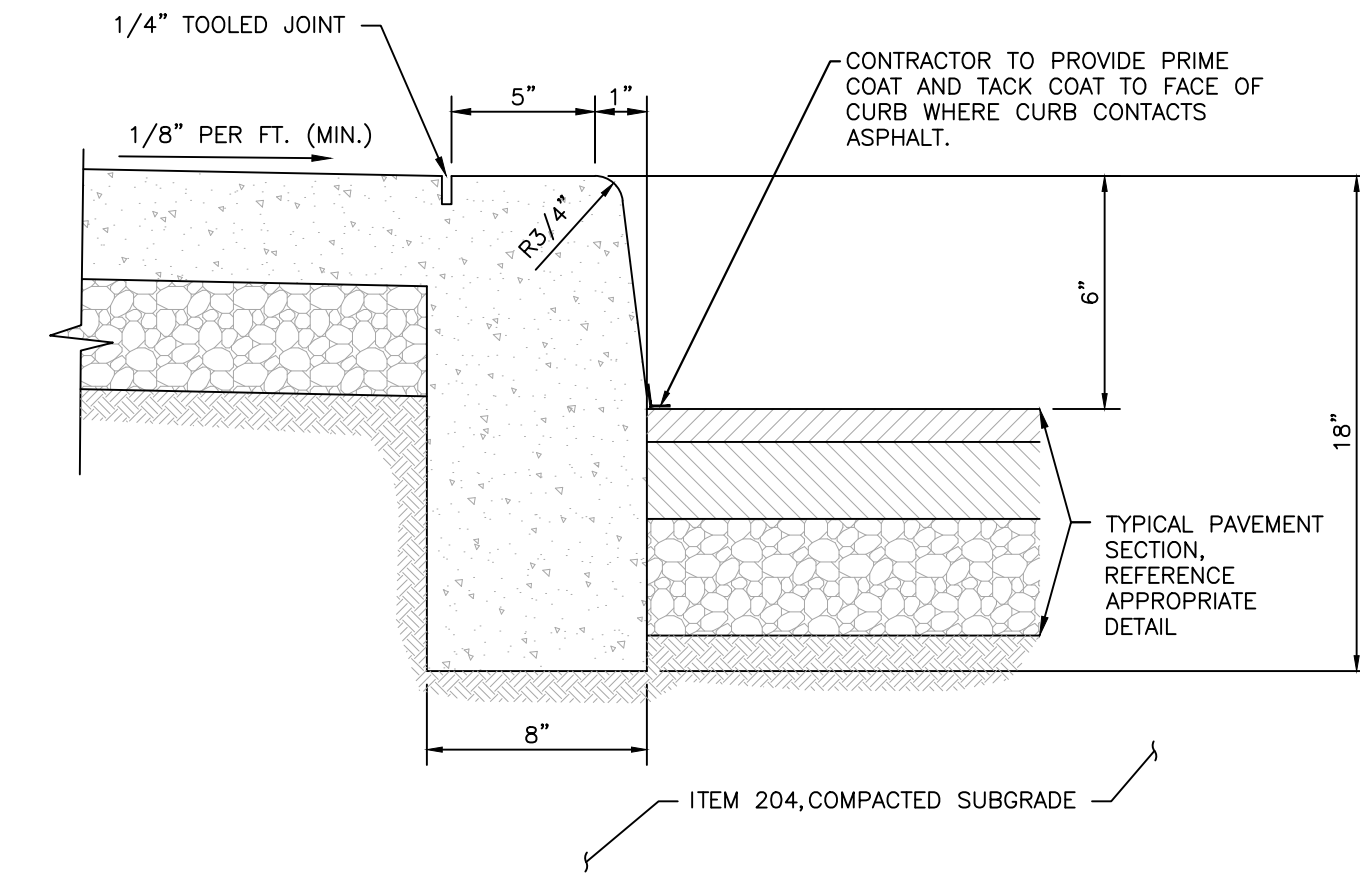
- NOTES:
1. ALL LETTERS ARE 1" AERIES "C" PER MUTCD.
 2. SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH GREEN REFLECTORIZED LEGEND AND BORDER.
 3. FINE NOTIFICATION SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WITH GREEN LEGEND AND BORDER.
 4. CONTRACTOR SHALL VERIFY FINE AMOUNT.
 5. ONE(1) SIGN REQUIRED FOR EACH PARKING SPACE.
 6. INSTALLED HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 7. ALL ACCESSIBLE FEATURES TO BE IN STRICT ACCORDANCE WITH A.D.A STANDARDS AND LOCAL LAWS.
 8. 'VAN' SIGN ONLY REQUIRED WHEN ADJACENT TO 8-FT WIDE ACCESS AISLES.



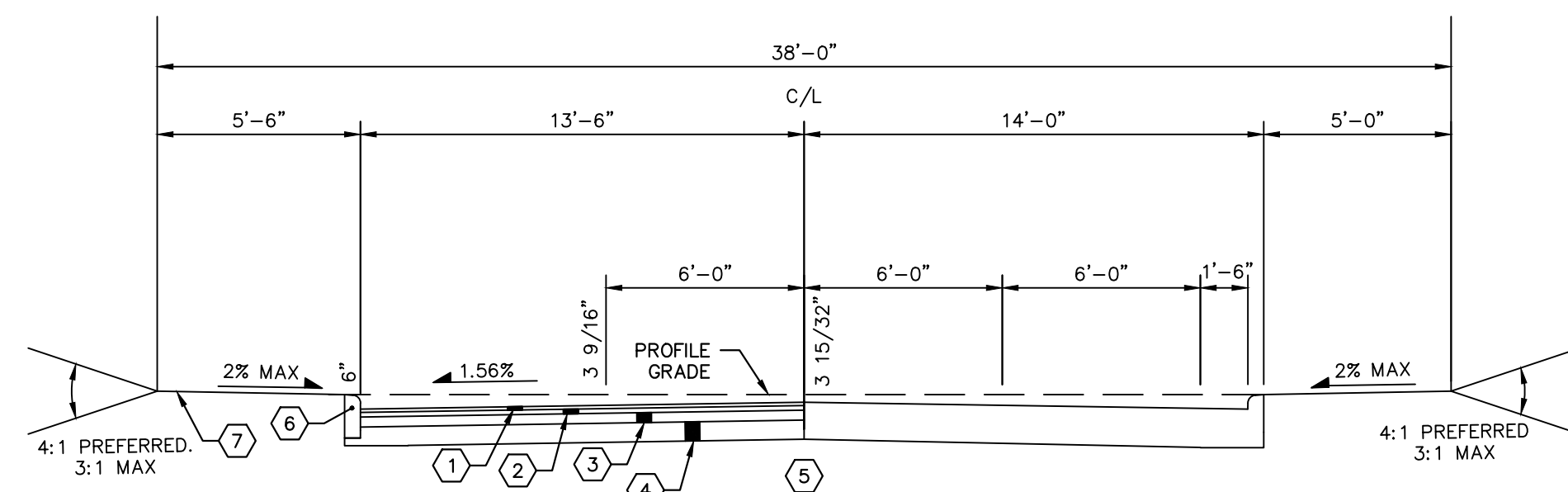
ACCESSIBLE PARKING SYMBOL
N.T.S.



6" BOLLARD DETAIL
N.T.S.



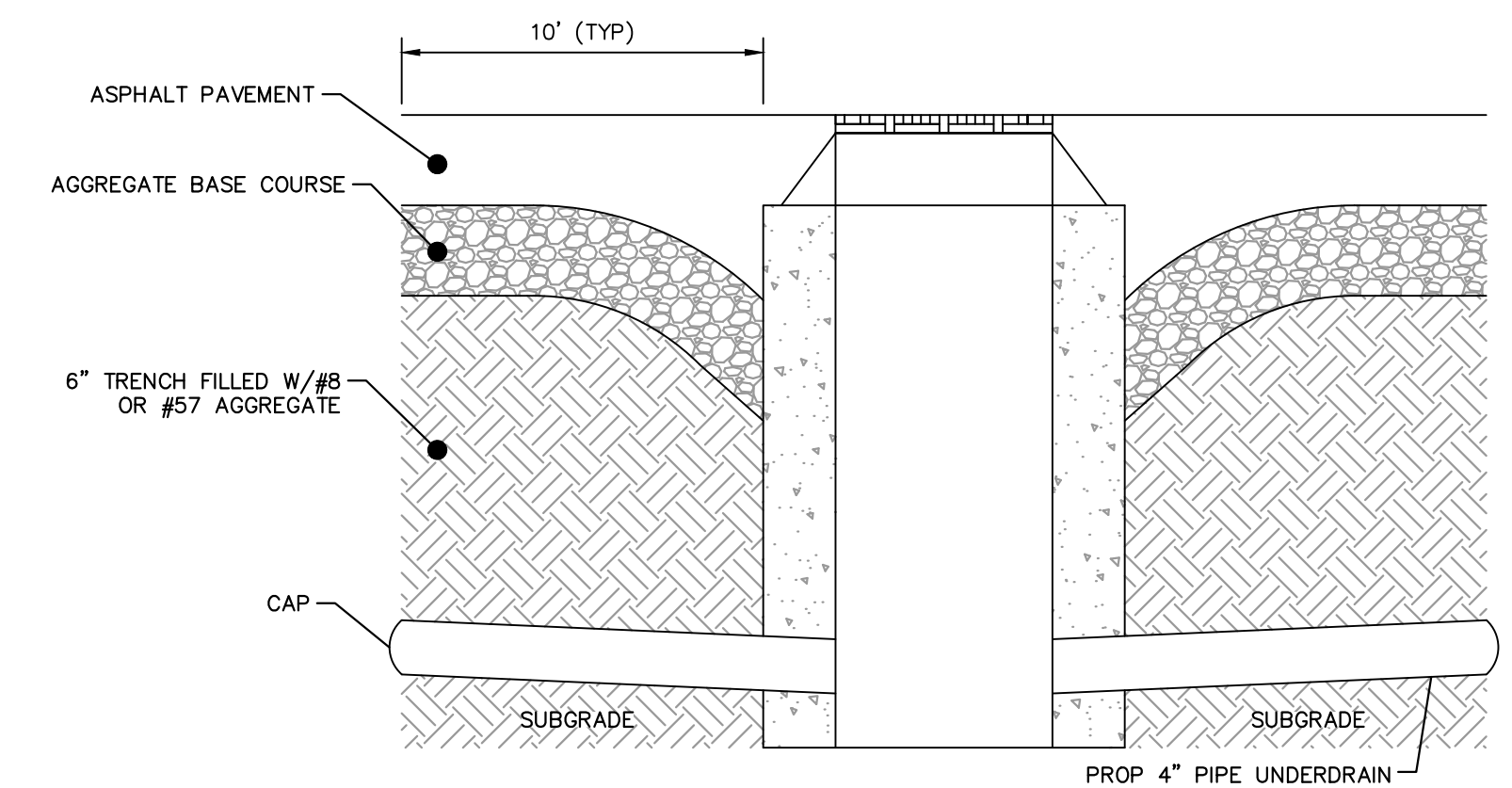
CONCRETE CURB - INTEGRAL
N.T.S.



TYPICAL 27" FC/FC SECTION
NOT TO SCALE
SILVER MINNOW DRIVE (STA 0+30.73 TO 9+13.37)

PAVEMENT LEGEND

- 1 ITEM 448, 2" ASPHALT CONCRETE SURFACE COURSE (MEDIUM TRAFFIC) PG64-22
- 2 ITEM 448, 2" ASPHALT CONCRETE INTERMEDIATE COURSE (MEDIUM TRAFFIC) PG64-22
- 3 ITEM 304, 4" AGGREGATE BASE
- 4 AASHTO NO. 2, 6" AGGREGATE BASE
- 5 ITEM 204, SUBGRADE COMPACTION
- 6 ITEM 609, STANDARD CONCRETE CURB (SEE DETAIL, THIS SHEET)
- 7 ITEM 659, SEEDING & MULCHING



FINGER DRAINS FOR STRUCTURES WITHIN PAVEMENT
NOT TO SCALE



			PROJECT MANAGER	BAS
			DESIGN	SRS
			DRAWN	SRS
			QA/QC	NSS
			DATE	NOV 2021
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	190115000



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SHOPS AT EBRIGHT

8140, 8180, 8220 REFUGEE ROAD
PICKERINGTON, OHIO 43147

CONSTRUCTION DETAILS

FILENAME	C800	SHEET
SCALE	AS SHOWN	16 OF 27

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	KEVIN HENDRICKSON 513-497-9953 KEVIN.HENDRICKSON@ADS-PIPE.COM
ADS SALES REP:	JOHN MCGEORGE 614-578-1561 JOHN.MCGEORGE@ADS-PIPE.COM
PROJECT NO:	S239982



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INSTRUCTIONS,
DOWNLOAD THE
INSTALLATION APP



SHOPS AT EBRIGHT

PICKERINGTON, OH

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 450 LBS/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOTTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

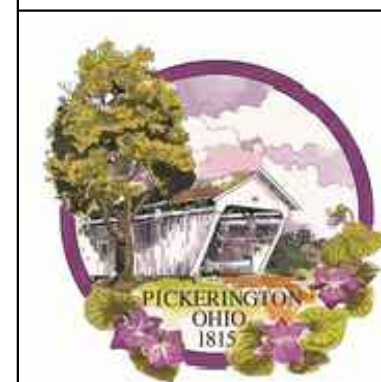
NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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			PROJECT MANAGER	BAS
			DESIGN	SRS
			DRAWN	SRS
			QA/QC	NSS
			DATE	NOV 2021
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	190115000

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SHOPS AT EBRIGHT

8140, 8180, 8220 REFUGEE ROAD
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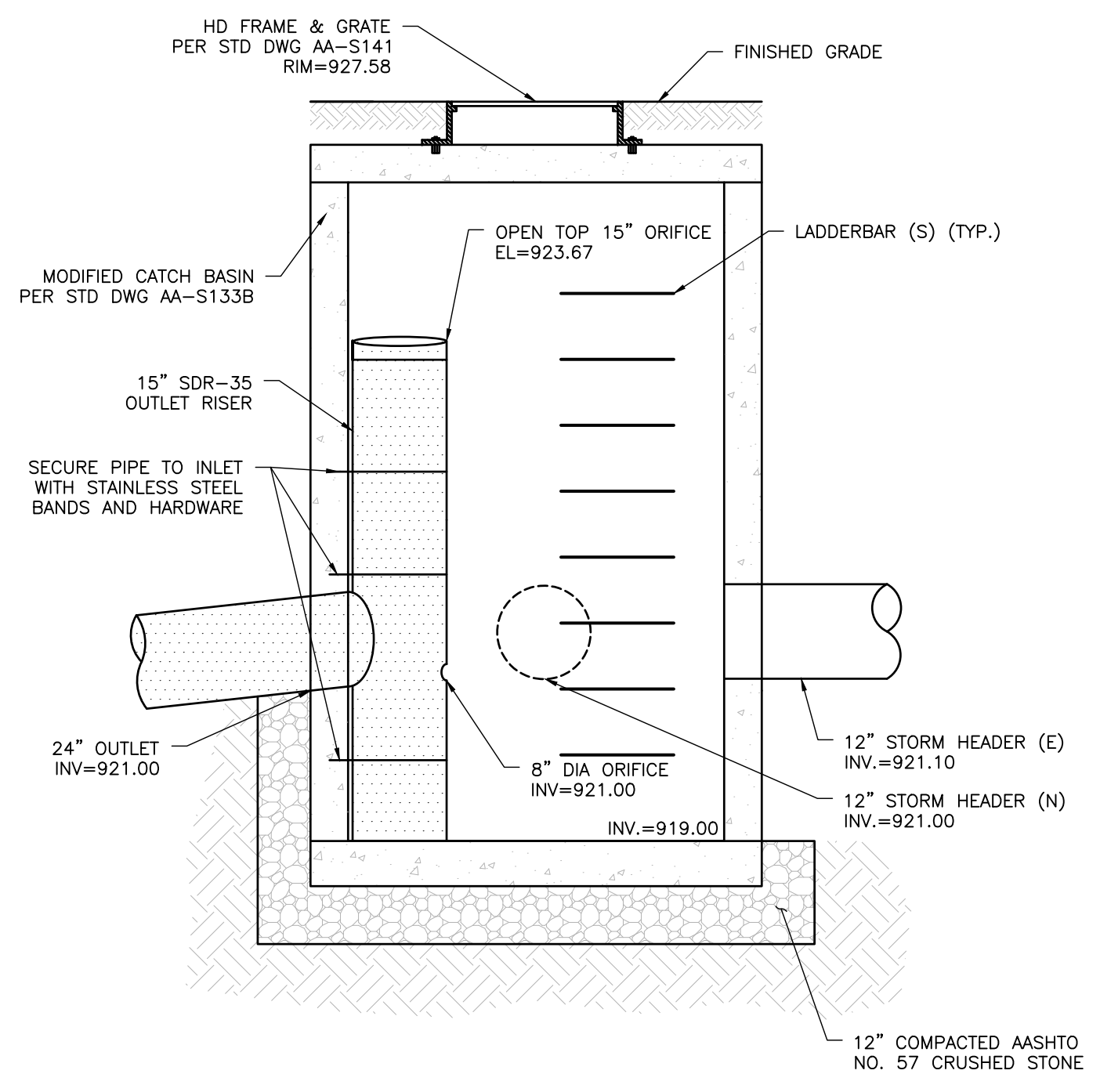
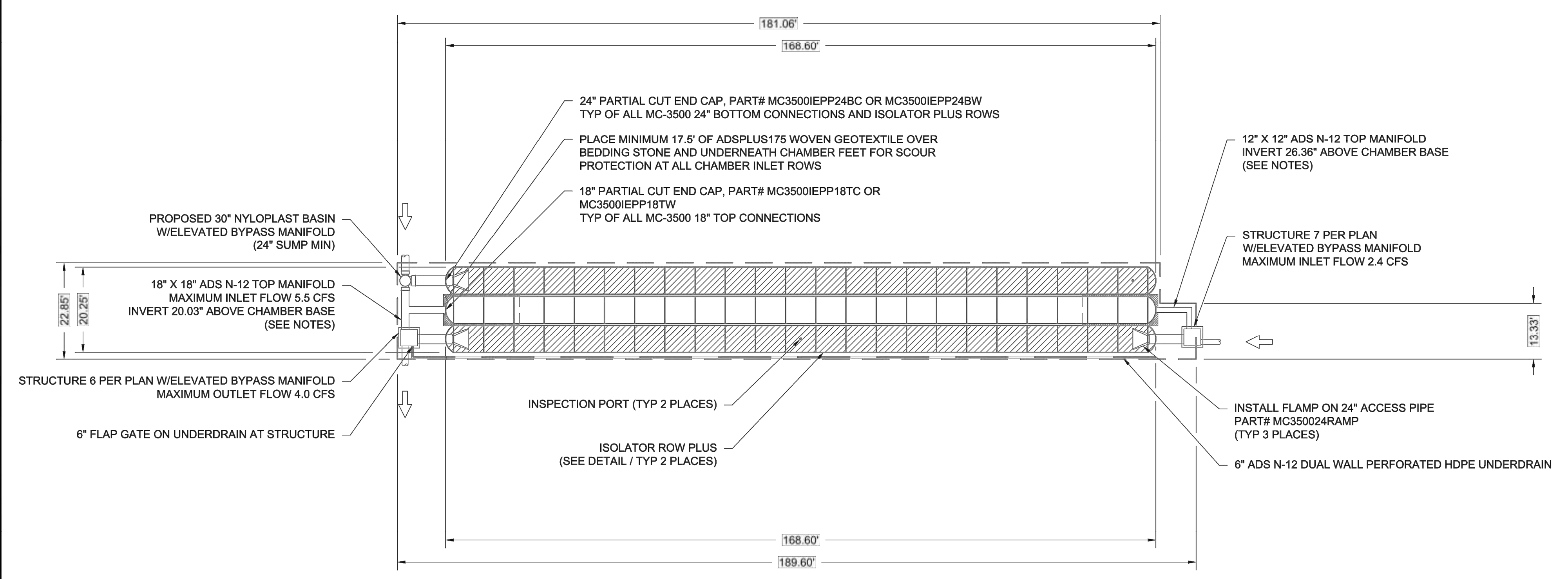
CONSTRUCTION DETAILS

FILENAME	C801	SHEET
SCALE	AS SHOWN	17 OF 27

PROPOSED LAYOUT - SYSTEM 1	
69	STORMTECH MC-3500 CHAMBERS
6	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
13,958	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
6,837	INSTALLED WATER QUALITY VOLUME (CF) BELOW ELEVATION 923.42 (PERIMETER STONE INCLUDED)
4,251	SYSTEM AREA (ft ²)
425	SYSTEM PERIMETER (ft)

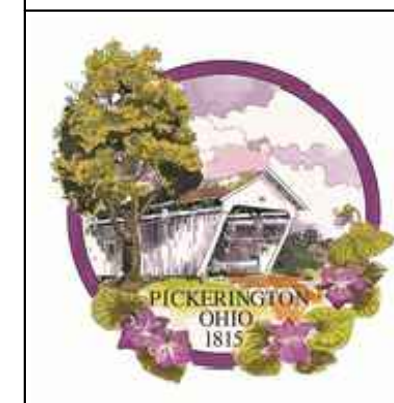
PROPOSED ELEVATIONS - SYSTEM 1	
933.50	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
927.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
927.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
927.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
927.00	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
926.50	TOP OF STONE
925.50	TOP OF MC-3500 CHAMBER
923.95	12" TOP MANIFOLD INVERT
923.42	18" TOP MANIFOLD INVERT
921.92	24" ISOLATOR ROW PLUS CONNECTION INVERT
921.75	BOTTOM OF MC-3500 CHAMBER
921.00	UNDERDRAIN INVERT
921.00	BOTTOM OF STONE

- NOTES**
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
 - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.



OUTLET CONTROL STRUCTURE DETAIL
STRUCTURE #6 (MODIF. AA-S133B CB, 3'x3')
 N.T.S.

SHOPS AT EBRIGHT PICKERINGTON, OH		DATE: 05/24/21	DRAWN: GGC
		PROJECT #: S239982	CHECKED: JPR
07/22/21	GGC	JPR	REVISED CHAMBER COUNT
			DESCRIPTION
StormTech® Chamber System 888-892-2694 WWW.STORMTECH.COM			
4640 TRUEMAN BLVD HILLIARD, OH 43026			
THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCTS/DETAILED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.			
		SHEET 2 OF 7	



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			PROJECT MANAGER	BAS
			DESIGN	SRS
			DRAWN	SRS
			QA/QC	NSS
			DATE	NOV 2021
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	190115000

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SHOPS AT EBRIGHT
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 PICKERINGTON, OHIO 43147

CONSTRUCTION DETAILS

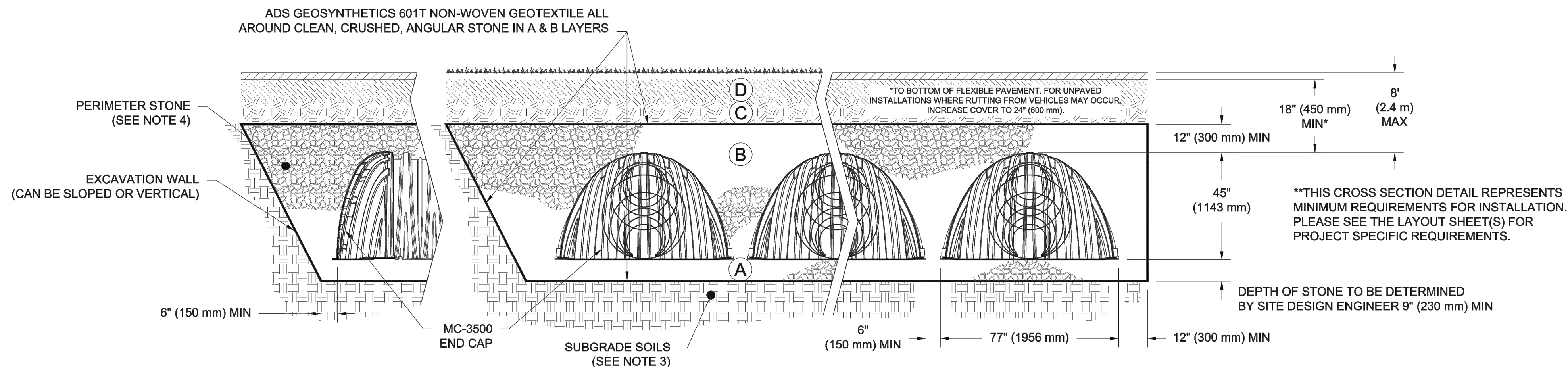
FILENAME	C802	SHEET
SCALE	AS SHOWN	18 OF 27

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

SHOPS AT EBRIGHT PICKERINGTON, OH	DRAWN: GGC DATE: 05/24/21	CHECKED: JPR PROJECT #: S239982
DATE: 07/19/21	DRAWN: GGC	DESCRIPTION: REVISED CHAMBER COUNT
StormTech® Chamber System 888-892-2684 WWW.STORMTECH.COM		
4640 TRUEMAN BLVD HILLIARD, OH 43026 		
4 SHEET OF 7		

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ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	190115000

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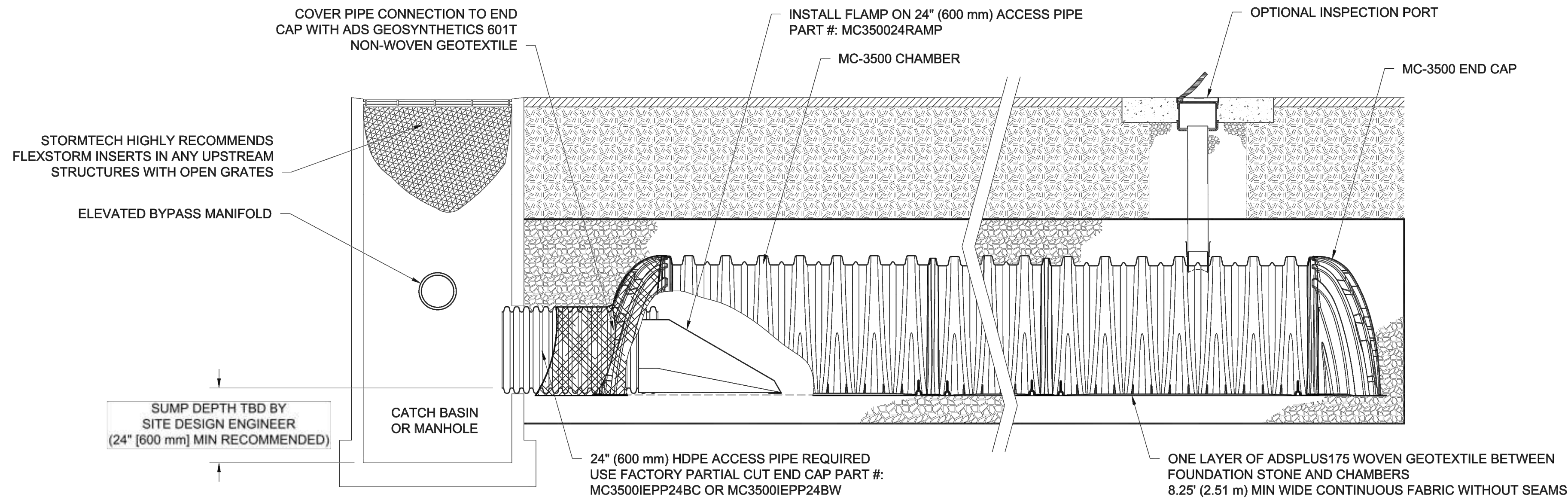
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SHOPS AT EBRIGHT

8140, 8180, 8220 REFUGEE ROAD
PICKERINGTON, OHIO 43147

CONSTRUCTION DETAILS

FILENAME	C804	SHEET	20 OF 27
SCALE	AS SHOWN		



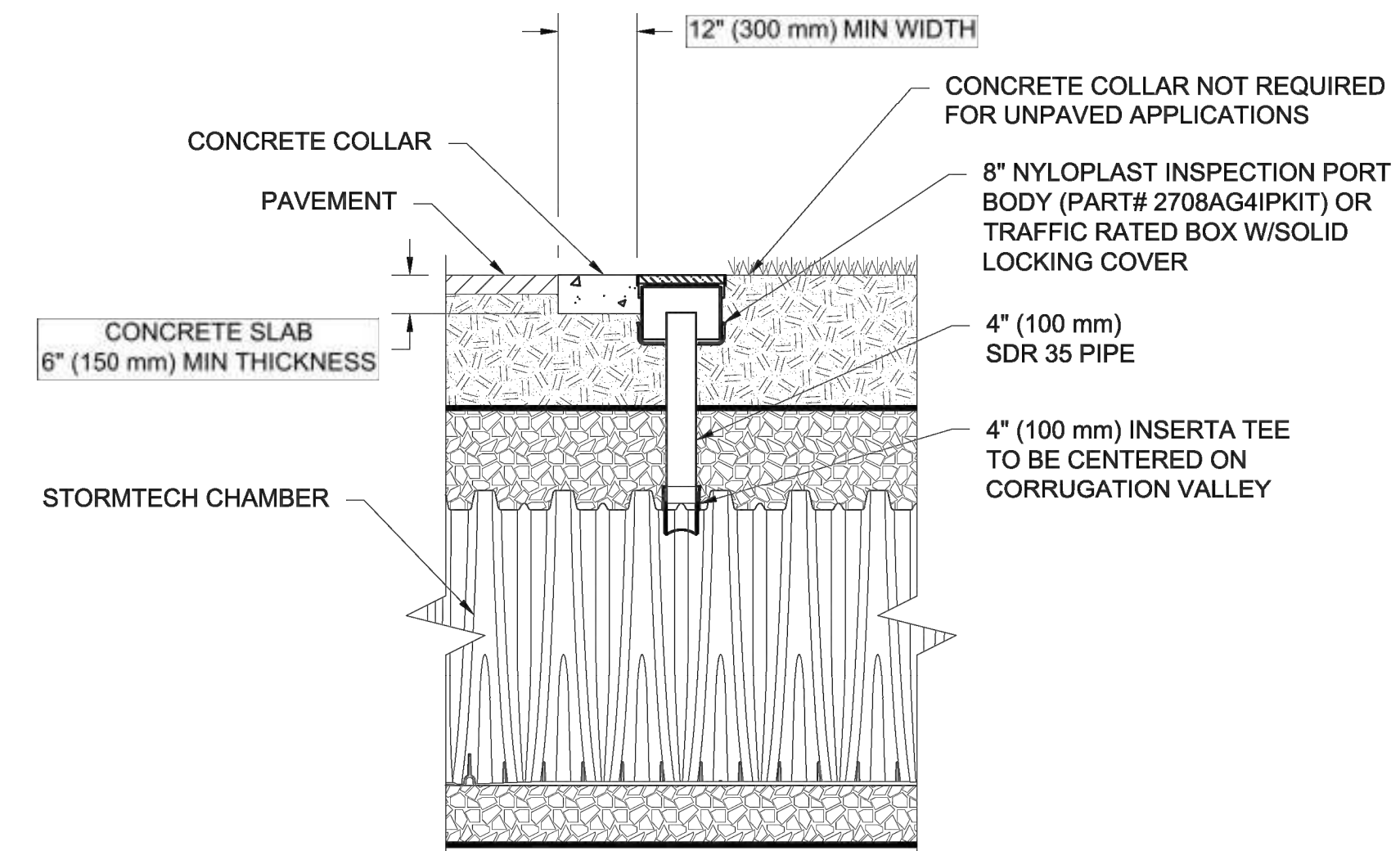
MC-3500 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - B. ALL ISOLATOR PLUS ROWS
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4" PVC INSPECTION PORT DETAIL
(MC SERIES CHAMBER)
NTS

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		PROJECT #: S239982	CHECKED: JPR
		DATE: 07/19/21	GCG JPR REVISED CHAMBER COUNT
		DRAWN: GGC	DESCRIPTION
StormTech®		Chamber System	
4640 TRUEMAN BLVD HILLIARD, OH 43026		888-892-2684 WWW.STORMTECH.COM	
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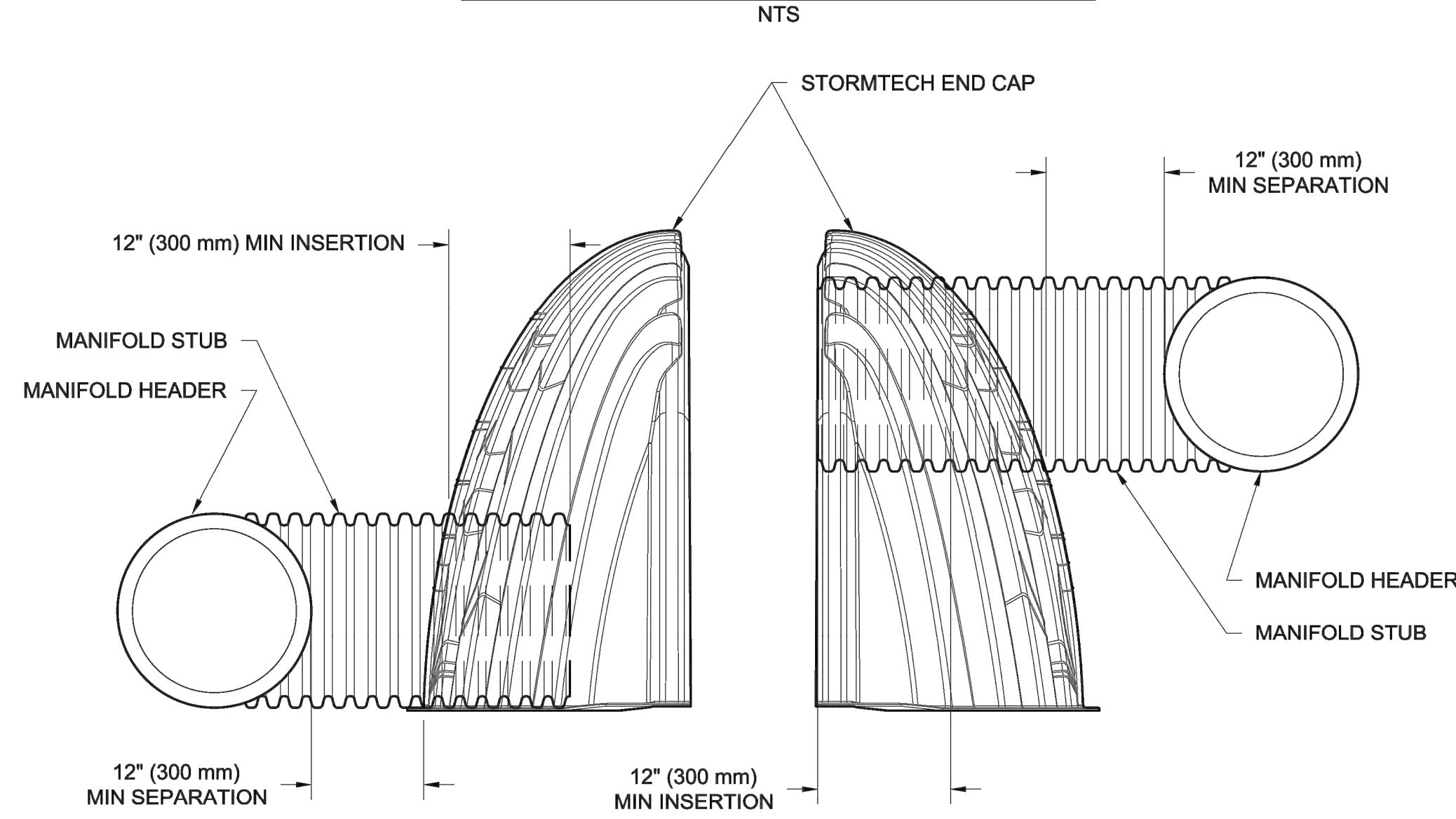
SHOPS AT EBRIGHT

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CONSTRUCTION DETAILS

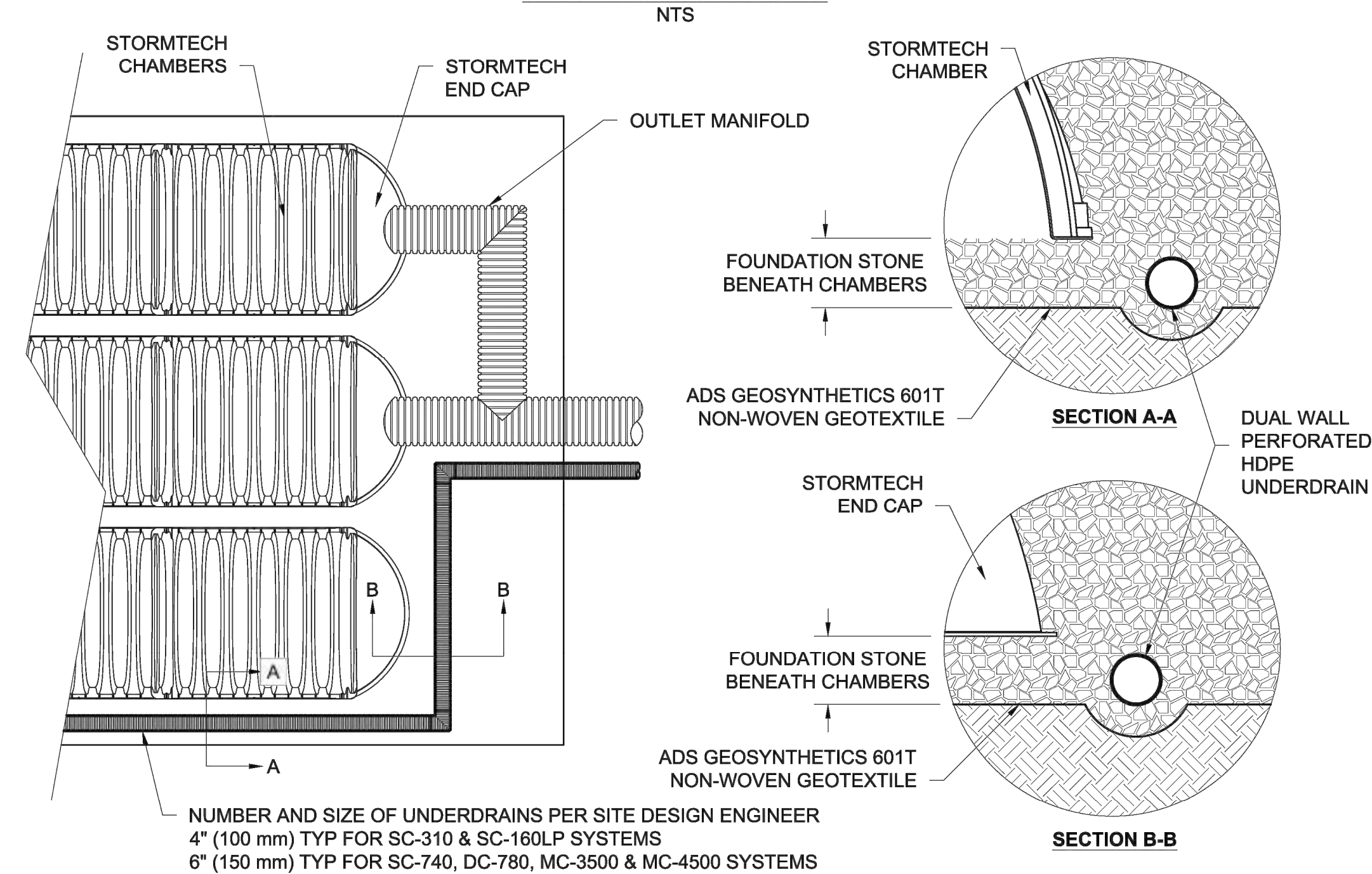
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SCALE	AS SHOWN	21 OF 27

MC-SERIES END CAP INSERTION DETAIL



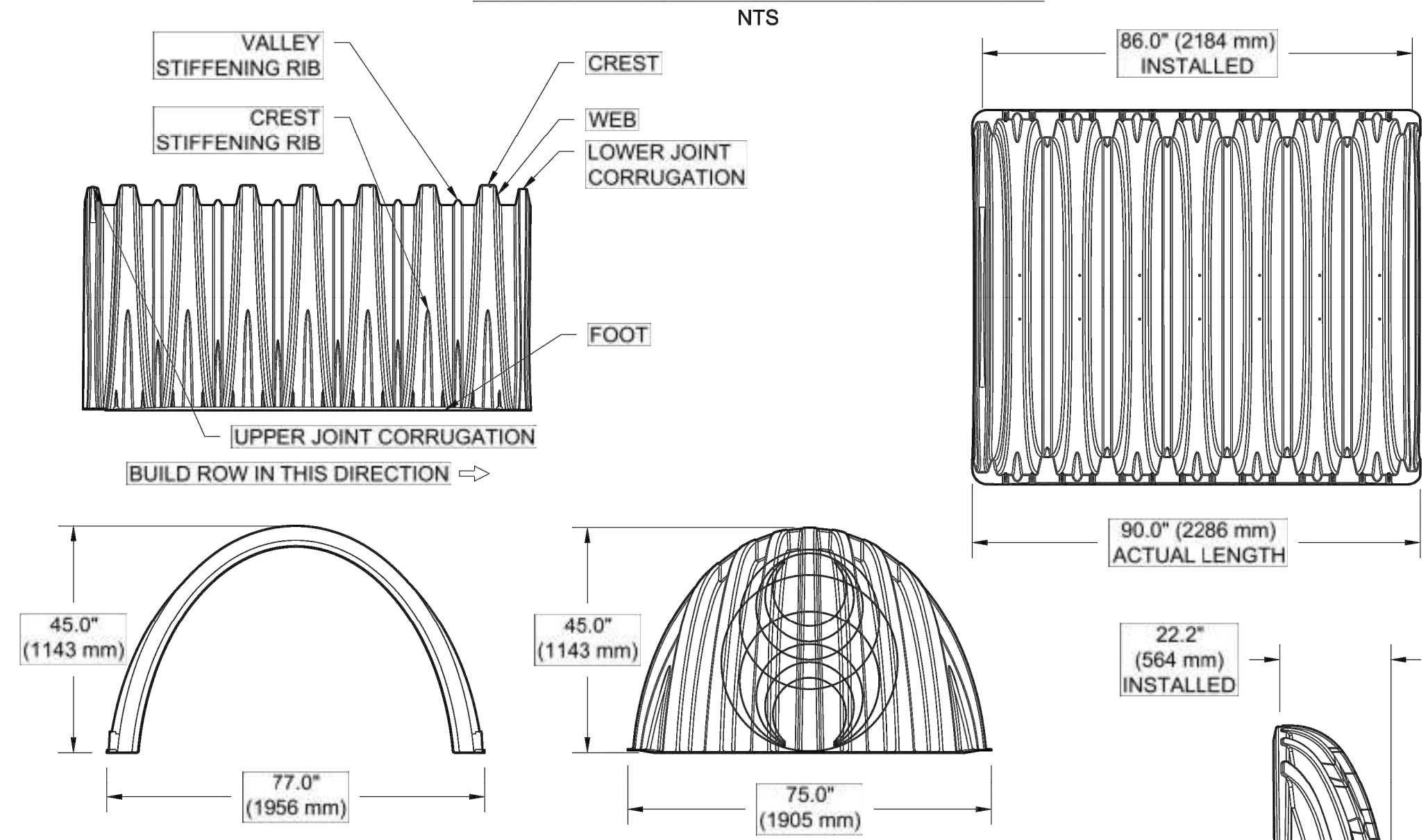
NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

UNDERDRAIN DETAIL



NUMBER AND SIZE OF UNDERDRAINS PER SITE DESIGN ENGINEER
 4" (100 mm) TYP FOR SC-310 & SC-160LP SYSTEMS
 6" (150 mm) TYP FOR SC-740, DC-780, MC-3500 & MC-4500 SYSTEMS

MC-3500 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m ³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m ³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m ³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m ³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" (152 mm) STONE BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
 END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"
 END CAPS WITH A WELDED CROWN PLATE END WITH "C"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B	---	---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B	---	---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B	---	---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B	---	---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B	---	---	1.50" (38 mm)
MC3500IEPP18TC	---	20.03" (509 mm)	---
MC3500IEPP18TW	18" (450 mm)	---	---
MC3500IEPP18BC	---	---	1.77" (45 mm)
MC3500IEPP18BW	---	---	---
MC3500IEPP24TC	---	14.48" (368 mm)	---
MC3500IEPP24TW	24" (600 mm)	---	---
MC3500IEPP24BC	---	---	2.06" (52 mm)
MC3500IEPP24BW	---	---	---
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

SHOPS AT EBRIGHT
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 OF 7



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ISSUE	DATE	DESCRIPTION

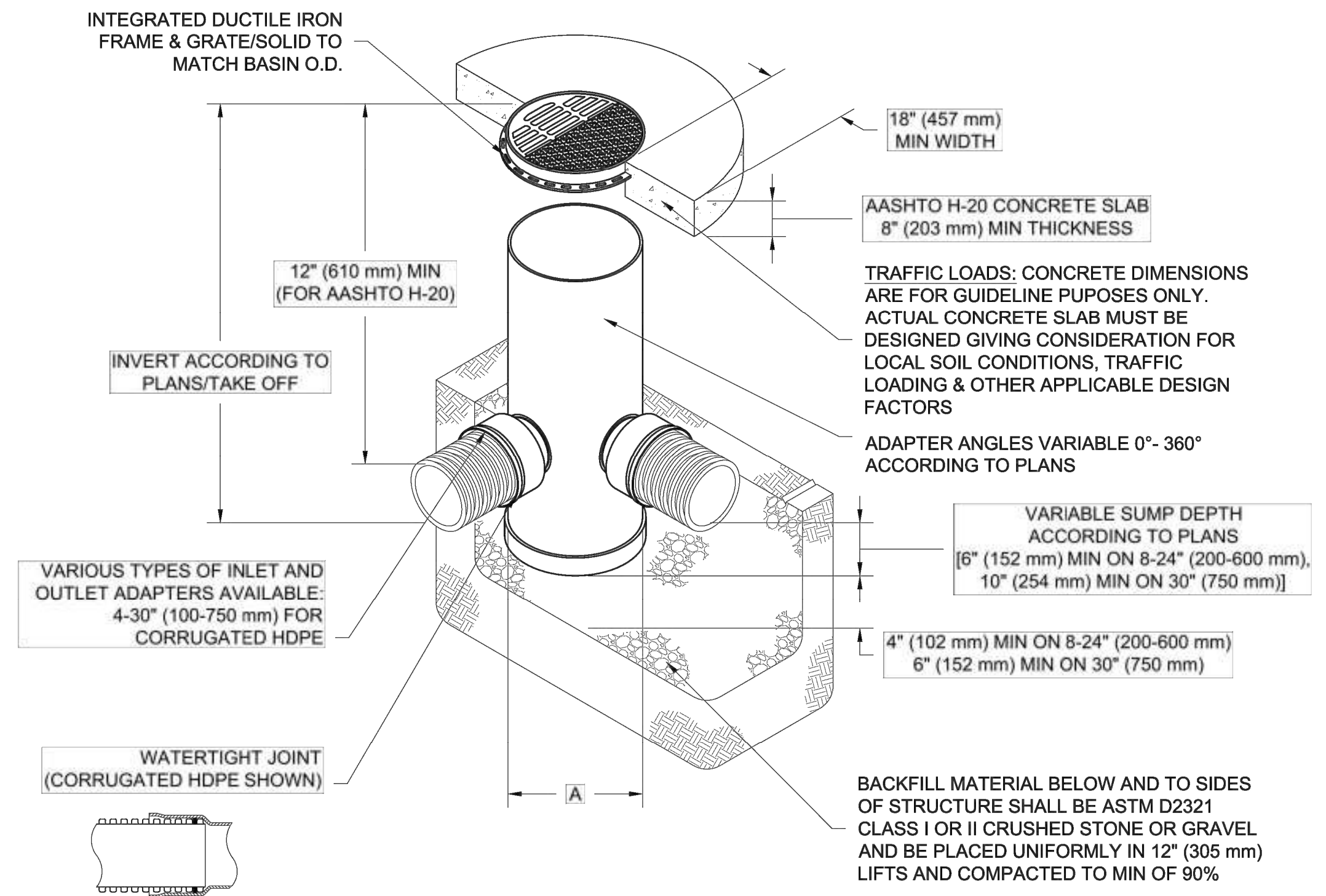
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CONSTRUCTION DETAILS

FILENAME	C806	SHEET
SCALE	AS SHOWN	22 OF 27

NYLOPLAST DRAIN BASIN
NTS



NOTES

- 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-US.COM
- TO ORDER CALL: 800-821-6710

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

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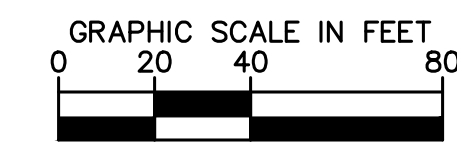
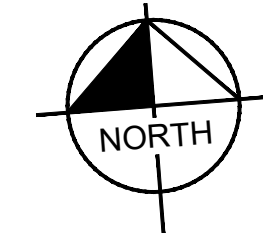
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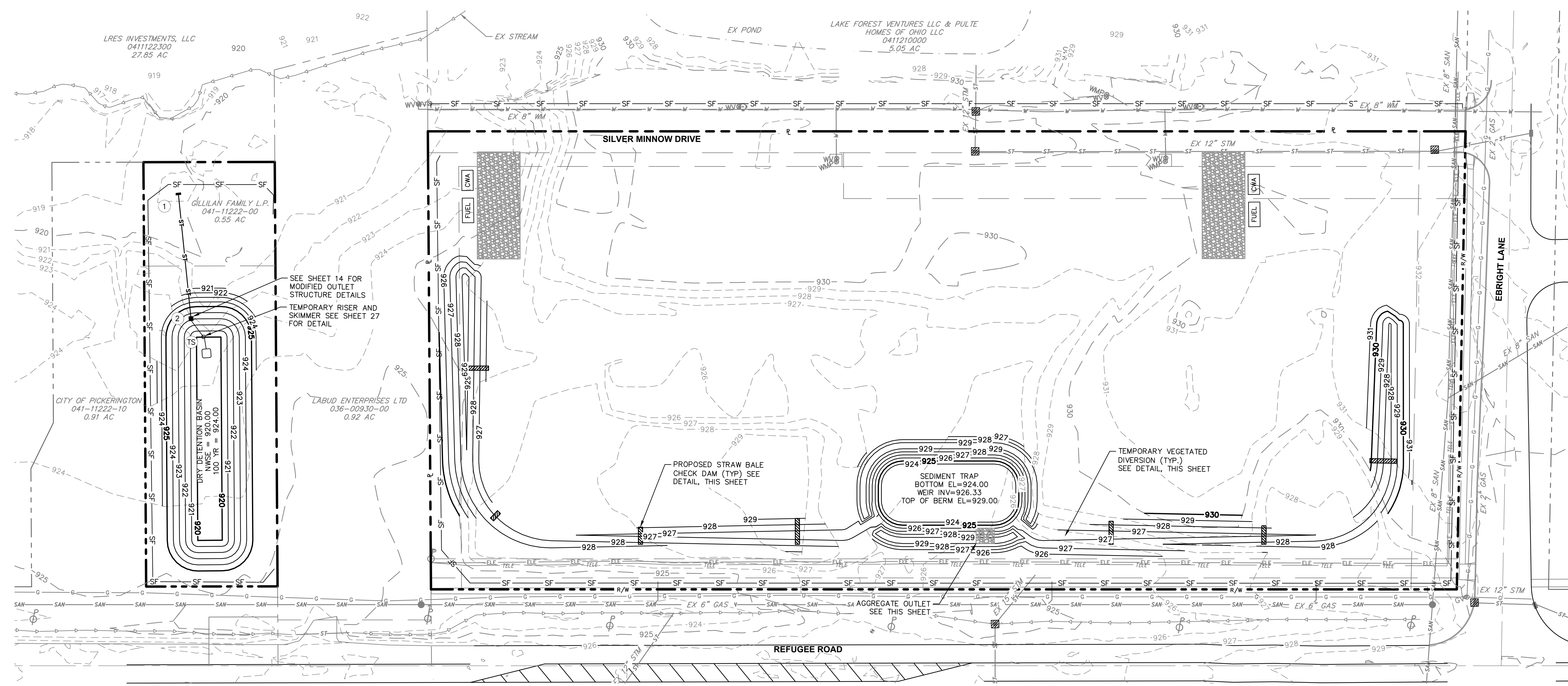
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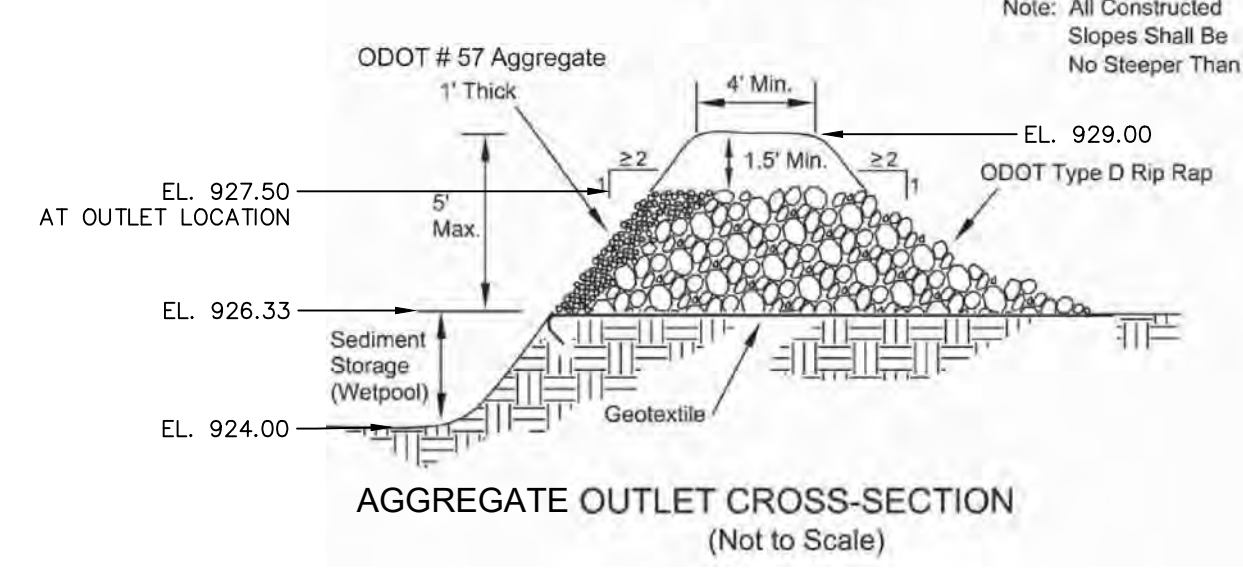
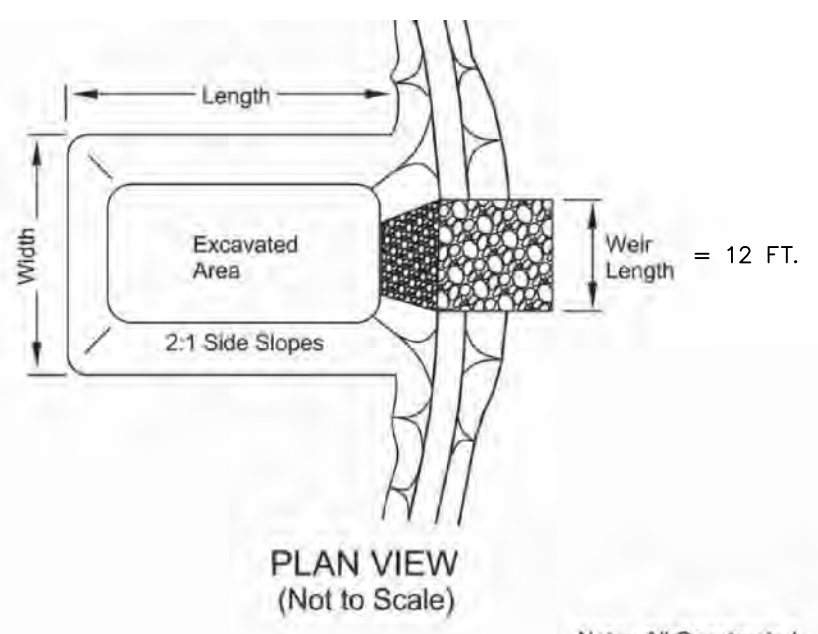
LEGEND

	EXISTING SITE BOUNDARY
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING CURB
	EXISTING ROAD CENTERLINE
	EXISTING EASEMENT
	EXISTING STORM LINE
	EXISTING SANITARY LINE
	EXISTING CATCH BASIN
	EXISTING MANHOLE
	EXISTING WATER LINE
	EXISTING HYDRANT
	EXISTING VALVE
	EXISTING OVERHEAD LINE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING TELEPHONE LINE
	EXISTING POWER POLE
	EXISTING FIBER OPTIC LINE
	EXISTING DITCH
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED STORM SEWER
	PROPOSED SILT FENCE
	PROPOSED CATCH BASIN
	PROPOSED HEADWALL
	PROPOSED ROCK CHECK DAM
	TEMPORARY SKIMMER
	PROPOSED REFUELING AREA
	PROPOSED CONCRETE WASHOUT AREA
	PROPOSED CONSTRUCTION ENTRANCE



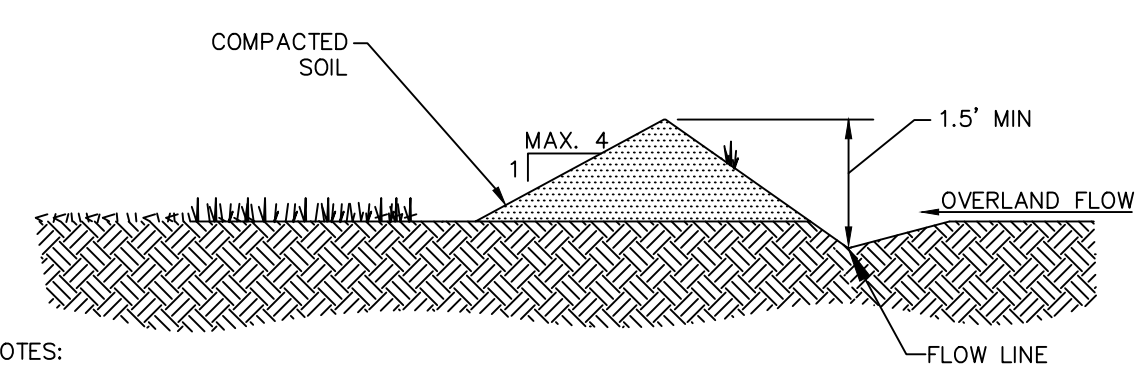
SEDIMENT TRAP

- A SEDIMENT TRAP IS A TEMPORARY SETTLING POND FORMED BY CONSTRUCTION OF AN EMBANKMENT AND/OR EXCAVATED BASIN AND HAVING A SIMPLE OUTLET STRUCTURE THAT IS TYPICALLY STABILIZED WITH GEOTEXTILE AND RIP-RAP. SEDIMENT TRAPS ARE CONSTRUCTED TO DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL, DISTURBED AREAS FOR A SUFFICIENT PERIOD OF TIME TO ALLOW THE MAJORITY OF THE SEDIMENT TO SETTLE OUT.
- THE CAPACITY AND FUNCTION OF THE SEDIMENT TRAP SHALL BE MAINTAINED BY INSPECTING ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT, AND BY PERFORMING THE NECESSARY ACTIVITIES SHOWN BELOW.
 - ESTABLISH VEGETATIVE COVER AND FERTILIZE AS NECESSARY TO MAINTAIN A VIGOROUS COVER AROUND THE SEDIMENT TRAP.
 - INSPECT THE POOL AREA, EMBANKMENT AND SPILLWAY AREA FOR BURROWING RODENTS, SLOPE FAILURE, SEEPAGE, EXCESS SETTLEMENT, AND DISPLACED STONE. THE AREA SHOULD BE INSPECTED FOR STRUCTURAL SOUNDNESS AND REPAIRED AS NEEDED.
 - REGULARLY INSPECT WATER DISCHARGED FROM TRAP FOR EXCESS SUSPENDED SEDIMENTS. IDENTIFY AND PERFORM NECESSARY REPAIRS TO IMPROVE WATER QUALITY. EXCESSIVE SUSPENDED SEDIMENTS MAY REQUIRE DESIGN MODIFICATIONS OR TREATMENT WITH FLOCCULANTS.
 - REMOVE WOODY VEGETATED GROWTH ON THE EMBANKMENT AND SPILLWAY AREAS.
 - REMOVE TRASH AND DEBRIS THAT ACCUMULATE IN THE POND AND HAVE POTENTIAL TO BLOCK SPILLWAYS.
 - DEWATERING OUTLETS SHALL BE REGULARLY CHECKED TO ENSURE THAT PERFORMANCE IS MAINTAINED. FILTER STONE CHOKED WITH SEDIMENT SHALL BE REMOVED AND REPLACED TO RESTORE ITS FLOW CAPACITY.
 - REMOVE SEDIMENT AND RESTORE THE SEDIMENT TRAP TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO THE TOP OF THE SEDIMENT STORAGE OR WET STORAGE ZONE. THIS ELEVATION SHALL BE SIGNIFIED BY THE TOP OF A STAKE NEAR THE CENTER OF THE TRAP. REMOVING SEDIMENT BY HAND MAY BE NECESSARY ADJACENT TO THE OUTLET SECTION OF THE EMBANKMENT TO PREVENT EQUIPMENT DAMAGE. PLACE THE REMOVED SEDIMENT AND STABILIZE WITH VEGETATION IN A DESIGNATED AREA WHERE IT WILL NOT EASILY ERODE AGAIN. RESTORE TRAP TO ITS ORIGINAL DIMENSIONS AND REPLACE STONE AS NEEDED ON THE OUTLET.
 - AFTER THE ENTIRE CONSTRUCTION PROJECT IS COMPLETED, TEMPORARY SEDIMENT TRAPS SHOULD BE DEWATERED AND REGRADED SO AS TO CONFORM TO THE CONTOURS OF THE AREA. ALL TEMPORARY STRUCTURES SHOULD BE REMOVED AND THE AREA SEEDED, MULCHED AND STABILIZED AS NECESSARY.



TEMPORARY DIVERSION

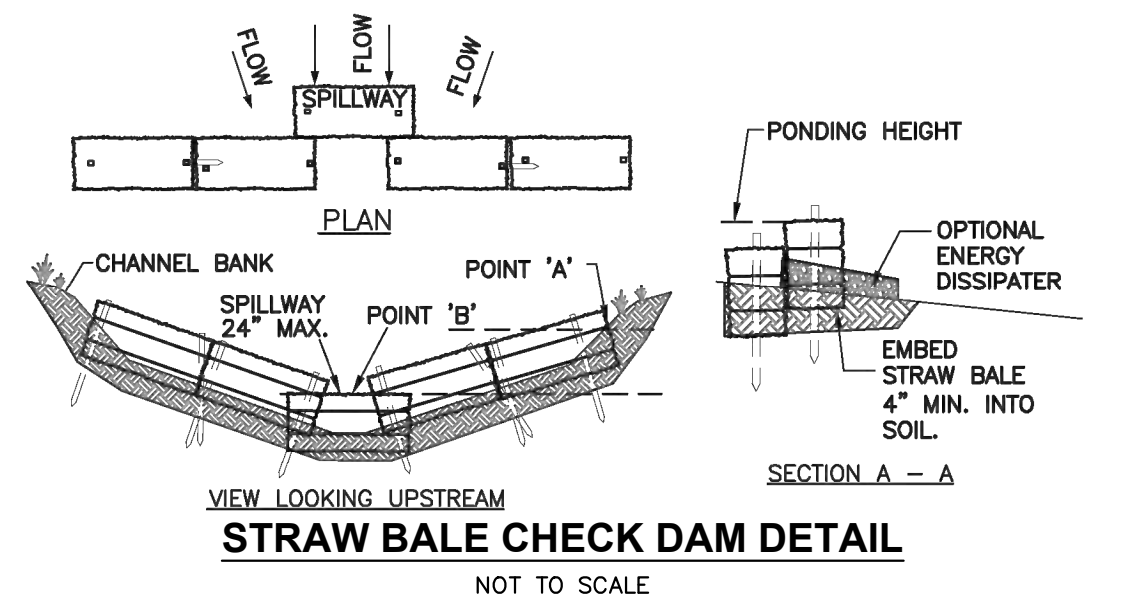
- DRAINAGE AREA SHOULD NOT EXCEED 10 ACRES. LARGER AREAS REQUIRE A MORE EXTENSIVE DESIGN.
- THE CHANNEL CROSS SECTION MAY BE PARABOLIC OR TRAPEZOIDAL. DISK THE BASE OF THE DIKE BEFORE PLACING FILL. BUILD THE DIKE 10% HIGHER THAN DESIGNED FOR SETTLEMENT. THE DIKE SHALL BE COMPACTED BY TRAVERSING WITH TRACKED EARTH-MOVING EQUIPMENT.
- THE MINIMUM CROSS SECTION OF THE LEVEE OR DIKE WILL BE AS FOLLOWS: (MINIMUM DESIGN FREEBOARD SHALL BE 0.3 FOOT.) WHERE CONSTRUCTION TRAFFIC WILL CROSS, THE TOP WIDTH MAY BE MADE WIDER AND THE SIDE SLOPES FLATTER THAN SPECIFIED ABOVE.
- THE GRADE MAY BE VARIABLE DEPENDING UPON THE TOPOGRAPHY, BUT MUST HAVE A POSITIVE DRAINAGE TO THE OUTLET AND BE STABILIZED TO BE NON-EROSIVE.
- OUTLET RUNOFF ONTO A STABILIZED AREA, INTO A PROPERLY DESIGNED WATERWAY, GRADE STABILIZATION STRUCTURE, OR SEDIMENT TRAPPING FACILITY.
- DIVERSIONS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE REQUIREMENTS IN PRACTICE STANDARDS TEMPORARY SEEDING (OR PERMANENT SEEDING) AND MULCHING AS SOON AS THEY ARE CONSTRUCTED OR OTHER SUITABLE STABILIZATION IN ORDER TO PRESERVE DIKE HEIGHT AND REDUCE MAINTENANCE.



- NOTES:
- REMOVE ANY EXISTING VEGETATION AND SCARIFY OR BENCH ADJACENT SOILS PRIOR TO PLACING BERM.
 - BERM MATERIALS MUST BE ADEQUATELY COMPACTED AND IMMEDIATELY STABILIZED.
 - DIVERSION BERMS MUST BE IMMEDIATELY STABILIZED TO PREVENT EROSION AND TRANSPORT OF SEDIMENT.
 - LINE FLOW LINE WITH FILTER FABRIC.

NOTES

- STRAW BALE CHECK DAM NOTES**
- EMBED BALES 4" INTO THE SOIL AND "KEY" BALES INTO THE CHANNEL BANKS.
 - POINT "A" MUST BE HIGHER THAN POINT "B". (SPILLWAY HEIGHT)
 - PLACE BALES PERPENDICULAR TO THE FLOW WITH ENDS TIGHTLY ABUTTING. USE STRAW, ROCKS OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE BALES.
 - SPILLWAY HEIGHT SHALL NOT EXCEED 24".
 - INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	BAS
DESIGN	SRS
DRAWN	SRS
QA/QC	NSS
DATE	NOV 2021
PROJECT NUMBER	190115000

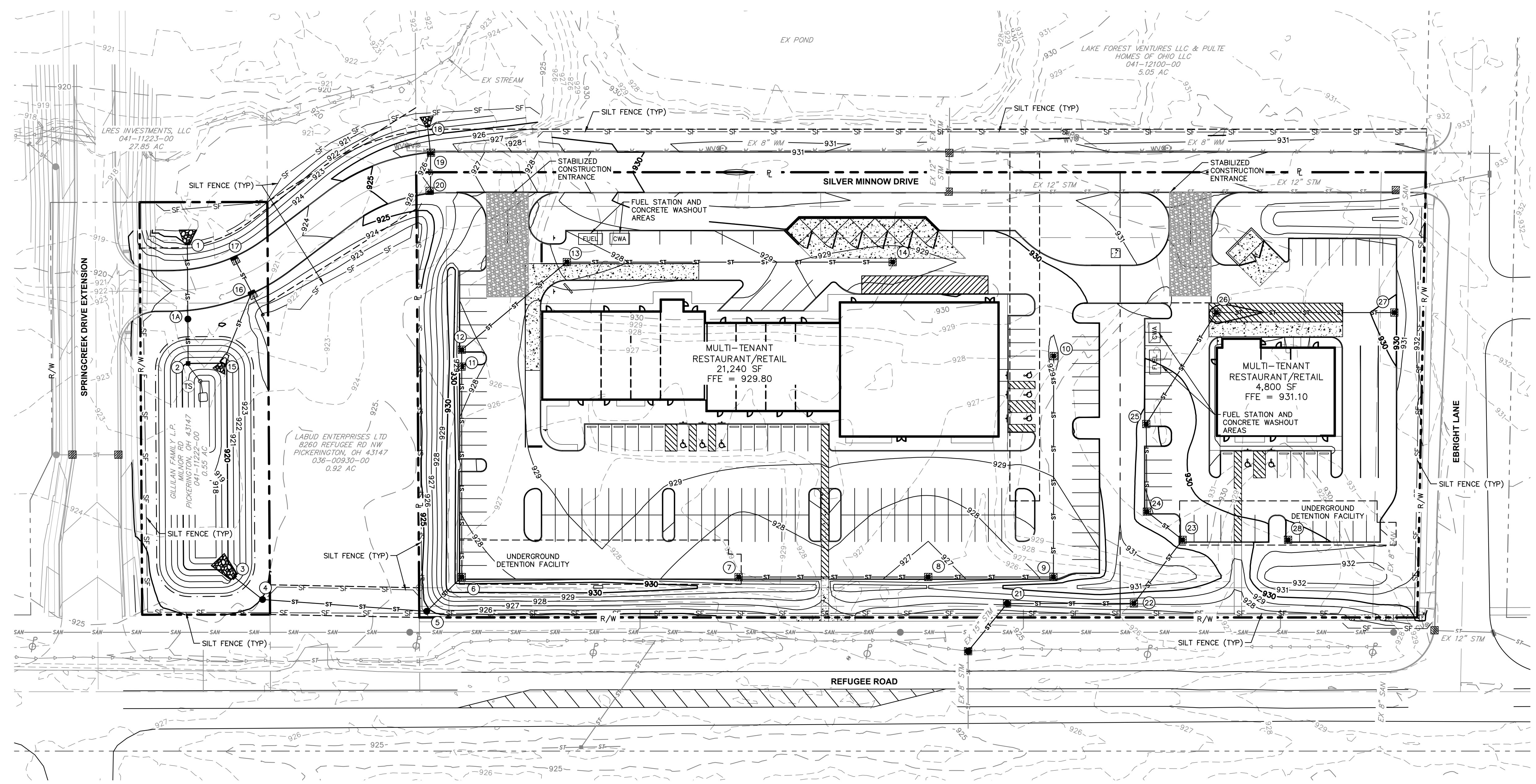
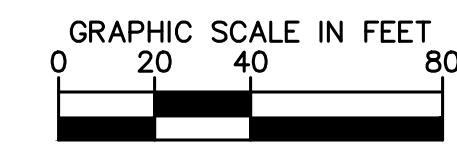
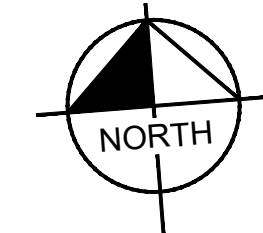


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SHOPS AT EBRIGHT
8140, 8180, 8220 REFUGEE ROAD
PICKERINGTON, OHIO 43147

EROSION & SEDIMENT CONTROL PLAN - PRE-DEVELOPMENT

FILENAME	C900	SHEET
SCALE	AS SHOWN	24 OF 27



LEGEND

	EXISTING SITE BOUNDARY
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING PAVEMENT
	EXISTING CURB
	EXISTING ROAD CENTERLINE
	EXISTING EASEMENT
	EXISTING STORM LINE
	EXISTING SANITARY LINE
	EXISTING CATCH BASIN
	EXISTING MANHOLE
	EXISTING WATER LINE
	EXISTING HYDRANT
	EXISTING VALVE
	EXISTING OVERHEAD LINE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING TELEPHONE LINE
	EXISTING POWER POLE
	EXISTING FIBER OPTIC LINE
	EXISTING DITCH
	PROPOSED CURB
	PROPOSED WATER BODY
	PROPOSED STORM SEWER
	PROPOSED CURB INLET
	PROPOSED CATCH BASIN
	PROPOSED HEADWALL
	PROPOSED WATERLINE
	PROPOSED FIRE HYDRANT
	PROPOSED SANITARY SEWER
	PROPOSED SANITARY MANHOLE
	FLOOD ROUTING ARROW
	FLOW ARROW
	LIMITS OF DISTURBANCE
	TEMPORARY 12" RISER
	FAIRCLOTH SKIMMER DEVICE
	SILT FENCE
	STABILIZED CONSTRUCTION ENTRANCE
	ODOT BLOCK MAT
	EROSION CONTROL MATTING
	INLET PROTECTION



			PROJECT MANAGER	BAS
			DESIGN	SRS
			DRAWN	SRS
			QA/QC	NSS
			DATE	NOV 2021
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	190115000



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SHOPS AT EBRIGHT

8140, 8180, 8220 REFUGEE ROAD
 PICKERINGTON, OHIO 43147

EROSION & SEDIMENT CONTROL PLAN

FILENAME	C901	SHEET
SCALE	AS SHOWN	25 OF 27

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
SHOPS AT EBRIGHT
8140, 8180, 8220 REFUGEE ROAD
PICKERINGTON, OH 43147

DEVELOPER NAME AND ADDRESS:
JVL RETAIL PROPERTIES, LLC
7434 WYNDEL CT
DUBLIN, OHIO 43016

DESCRIPTION:
SHOPS AT EBRIGHT IS LOCATED IN THE CITY OF PICKERINGTON, FAIRFIELD COUNTY, OHIO. THE PROPOSED DEVELOPMENT CONSISTS OF MIXED RETAIL, UTILITIES, STREETS, AND ASSOCIATED STORMWATER MANAGEMENT FACILITIES ON 4.65 ACRES.

RUNOFF COEFFICIENT:
POST-DEVELOPMENT RUN-OFF COEFFICIENT - 0.91

SITE AREA:
THE SITE IS APPROXIMATELY 4.65 ACRES OF WHICH 4.25 ACRES WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES.

NPDES GENERAL PERMIT NUMBER:
4GCO08135*AG

SOIL TYPES:
BeA - BENNINGTON SILT LOAM, 0 TO 2 PERCENT SLOPES (SOIL GROUP C/D)
BeB - BENNINGTON SILT LOAM, 2 TO 6 PERCENT SLOPES (SOIL GROUP C/D)
Cd1B1 - CARDINGTON SILT LOAM, 2 TO 6 PERCENT SLOPES (SOIL GROUP C/D)
Cd1C2 - CARDINGTON SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED (SOIL GROUP C/D)
Pe - PEWAMO SILTY CLAY LOAM, LOW CARBONATE TILL, 0 TO 2 PERCENT SLOPES (SOIL GROUP C/D)

SEQUENCE OF MAJOR ACTIVITIES:

- THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
1. INSTALL SILT FENCE
 2. CLEAR AND GRUB
 3. EXISTING SEDIMENT BASINS MUST BE IN PLACE PRIOR TO ANY LAND DISTURBANCE
 4. FULL SITE GRADING
 5. FILL TOPSOIL WITHIN SILT FENCE PERIMETER
 6. STABILIZE DENUDEED AREAS AND STOCKPILES WITHIN 14 DAYS OF LAST CONSTRUCTION ACTIVITY IN THAT AREA
 7. INSTALL UTILITIES
 8. BUILDING CONSTRUCTION
 9. FINAL GRADING AND INSTALL PERMANENT SEEDING
 10. RESEED ANY DISTURBED AREAS AND LANDSCAPE SITE

NAME OF RECEIVING WATERS: THE SITE PRIMARILY DRAINS TO AN EXISTING UNNAMED STREAM (NORTH) AND PUBLIC ROADSIDE STORM SEWER SYSTEM (SOUTH). THE SITE ULTIMATELY DRAINS TO SYCAMORE CREEK.

EROSION AND SEDIMENT CONTROL

EROSION CONTROL: EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 1258.22 OF THE CODIFIED ORDINANCE OF THE CITY OF PICKERINGTON DATED JANUARY 16, 2007 (INCLUDING ALL SUPPLEMENTS) AND OF OHIO'S STANDARDS FOR STORMWATER MANAGEMENT LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL -RAINWATER AND LAND DEVELOPMENT, WHICHEVER IS THE MORE STRINGENT AS DETERMINED BY THE CITY ENGINEER. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF PICKERINGTON AND/OR THE OHIO EPA.

SOIL AND EROSION CONTROL INSPECTIONS: THE CITY OF PICKERINGTON ENGINEER AND/OR INSPECTORS OR DESIGNATED AGENT SHALL MAKE INSPECTIONS AS HERINAFTER REQUIRED AND EITHER SHALL APPROVE THAT PORTION OF THE WORK COMPLETED OR SHALL NOTIFY THE PERMITTEE WHEREIN THE WORK FAILS TO COMPLY WITH THE EROSION AND SEDIMENT CONTROL PLAN AS APPROVED. APPROVED PLANS FOR GRADING, STRIPPING, EXCAVATING, AND FILLING WORK AND A COPY OF THE SITE'S STORMWATER POLLUTION PREVENTION PLAN SHALL BE MAINTAINED AT THE SITE DURING THE COURSE OF THE WORK.

THE APPLICANT SHALL, DURING CONSTRUCTION, ARRANGE FOR AND SCHEDULE THE FOLLOWING INSPECTIONS BY THE CITY:

1. START OF CONSTRUCTION;
2. DURING THE CLEARING OPERATION, EXCAVATION, AFTER SIGNIFICANT RAINFALL, AND AT OTHER TIMES DETERMINED BY THE ENGINEER, TO ASSURE THAT EFFECTIVE CONTROL PRACTICES RELATIVE TO EROSION AND SEDIMENTATION ARE BEING FOLLOWED;
3. AT THE COMPLETION OF ROUGH AND FINAL GRADING;
4. AT THE CLOSE OF THE CONSTRUCTION SEASON, OR WHEN CONSTRUCTION WILL CEASE FOR SEVEN (7) OR MORE DAYS;
5. ALL PUBLIC UNDERGROUND CONVEYANCE AND CONTROL STRUCTURES PRIOR TO BACKFILLING, AND ALL TAPS OF PRIVATE UNDERGROUND CONVEYANCE SYSTEMS INTO PUBLIC CONVEYANCE SYSTEMS; AND,
6. UPON COMPLETION OF FINAL LANDSCAPING.

THE PERMITTEE OR HIS/HER AGENT SHALL MAKE REGULAR INSPECTIONS OF ALL CONTROL MEASURES IN ACCORDANCE WITH THE INSPECTION SCHEDULE OUTLINED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN(S). THE PURPOSE OF SUCH INSPECTIONS WILL BE TO DETERMINE THE OVERALL EFFECTIVENESS OF THE CONTROL PLAN AND THE NEED FOR ADDITIONAL CONTROL MEASURES. ALL INSPECTIONS SHALL BE DOCUMENTED IN WRITTEN FORM AND SUBMITTED TO THE ENGINEER AND/OR INSPECTORS.

MAINTENANCE AND COMPLIANCE INSPECTIONS OF STORMWATER MANAGEMENT SYSTEMS SHALL BE CONDUCTED ON A ROUTINE, PERIODIC BASIS, AS DEEMED APPROPRIATE BY THE CITY, OR AS COMPLAINTS ARISE CONCERNING THE SYSTEM. BY SEEKING AND OBTAINING PLAN APPROVAL UNDER THE STORMWATER REGULATIONS, THE OPERATOR AND OWNER SHALL BE DEEMED TO HAVE CONSENTED TO INSPECTIONS BY THE CITY AND OTHER APPROPRIATE REGULATORY AGENCIES OR DEPARTMENTS UPON PRESENTATION OF PROPER IDENTIFICATION BY THE REPRESENTATIVE(S) OF THE AGENCY(IES) CONDUCTING THE INSPECTIONS. THE CITY INSPECTORS OR ITS DESIGNATED AGENT SHALL ENTER THE PROPERTY OF THE APPLICANT AS DEEMED NECESSARY TO MAKE REGULAR INSPECTIONS TO ENSURE THAT WORK IS BEING COMPLETED AS DOCUMENTED IN THE CONTRACT DOCUMENTS.

OEPA NOTICE OF INTENT (NOI): DEVELOPER SHALL OBTAIN A NOI FROM THE OEPA AND MAINTAIN SWP3 PROVISIONS THROUGHOUT THE DURATION OF THE PROJECT. NO CONSTRUCTION WORK SHALL BEGIN WITHOUT AN APPROVED AND CURRENT OHIO EPA NOTICE OF INTENT (NOI). A COPY OF THE APPROVED NOI SHALL BE FILED WITH THE CITY OF PICKERINGTON.

ESTABLISHMENT OF PERMANENT VEGETATION: PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

SEEDING & MULCHING: THE CONTRACTOR SHALL SEED & STRAW ANY DISTURBED SOIL. THE STRAW IS TO BE "CRIMPED" INTO THE SOIL USING A DISK OR OTHER METHOD AS APPROVED BY THE CITY. HYDROSEEDING IS PERMITTED WITH APPROVAL OF THE CITY ENGINEER.

EROSION CONTROL FABRIC: JUTE MATTING, EXCELSIOR MATTING OR A SIMILAR PRODUCT IS TO BE APPLIED ON SLOPES OF 2:1 OR GREATER. INSTALL MATTING AS PER MANUFACTURER AND INDUSTRY STANDARDS.

CONCRETE WASHOUT AREA: THE CONTRACTOR SHALL PROVIDE FOR AN ISOLATED CONCRETE WASHOUT AREA ONSITE. THIS LOCATION SHALL BE SHOWN ON THE CONSTRUCTION DRAWINGS OR, IF NOT SHOWN, THE LOCATION SHALL BE DETERMINED BY THE PRECONSTRUCTION CONFERENCE. NO CONCRETE DISPENSING VEHICLES SHALL BE PERMITTED TO DISCHARGE WASH WATER INTO A PRIVATE OR PUBLIC STORM SEWER SYSTEM.

VACANT LOTS: PROPERTIES/LOTS WHICH ARE TO REMAIN VACANT FOR A PERIOD OF TIME TO EXCEED 30 DAYS SHALL BE GRADED FOR DRAINAGE AND SEEDED. NO DUMPING OF CONSTRUCTION DEBRIS OR OTHER WASTE SHALL BE PERMITTED.

BASIN VERIFICATION SURVEY: A STATE OF OHIO REGISTERED SURVEYOR SHALL EXECUTE A VERIFICATION SURVEY OF ALL BASINS. THE SURVEY IS TO INDICATE HORIZONTAL AND VERTICAL AS-BUILT INFORMATION AND SHALL INCLUDE SURVEY SHOTS TAKEN WITHIN THE BASIN.

BASIN SEEDING: ALL DETENTION AND RETENTION BASIN AREAS SHALL BE PROVIDED WITH TOPSOIL, AND SHALL BE SEEDED AND MULCHED PER CMSC SECTIONS 653 AND 659. GRASSES SEEDED WITHIN THE BASIN SHOULD BE ABLE TO SURVIVE 48 HOURS UNDERWATER. JUTE AND EXCELSIOR MATTING SHALL BE USED AS REQUIRED TO STABILIZE SLOPES AND PREVENT EROSION.

AERATORS: ALL RETENTION BASINS AND PONDS SHALL HAVE AERATORS. FORWARD SPECIFICATIONS TO THE CITY FOR REVIEW AND APPROVAL.

CONTROLS

EROSION AND SEDIMENT CONTROLS:

STABILIZATION PRACTICES

TEMPORARY STABILIZATION - TOP SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 14 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED SHALL BE APPLIED AS PER THE TEMPORARY SEEDING SPECIFICATIONS. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING GEOTEXTILE AND STONE SUB-BASE UNTIL ASPHALT PAVEMENT CAN BE APPLIED.

PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED BY THE PROCESS OF HYDROSEEDING NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OR WITHIN 2 DAYS FOR AREAS WITHIN 50 FEET OF A STREAM. REFER TO LANDSCAPE PLAN FOR DETAILS.

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING		●	●	●	●	●	*	*	*	●	●	
DORMANT SEEDING	●	●	●	●	●	●	*	*	*	●	●	●
TEMPORARY SEEDING						*	*	*	*			
SODDING			**	**	**	**	**	**	**			
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●

* - IRRIGATION NEEDED
** - IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

STORMWATER MANAGEMENT

STORMWATER DRAINAGE MANAGEMENT WILL BE PROVIDED BY CURB AND GUTTER INLETS, CATCH BASINS, AND STORM SEWER PIPE DIRECTED TO PERMANENT DETENTION BASINS.

	REQUIRED	PROPOSED
SEDIMENT STORAGE ZONE	4,000 CF	4,177 CF
DEWATERING ZONE	7,200 CF	7,296 CF

OTHER CONTROLS

WASTE DISPOSAL:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER RENTED FROM A LICENSED SOLID WASTE MANAGEMENT COMPANY. THE DUMPSTER WILL MEET ALL LOCAL, CITY AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF TWICE PER WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED OFF-SITE. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE OFFICE TRAILER. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY ORC 3714

HAZARDOUS WASTE:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES. THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE:

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.

OFF-SITE VEHICLE TRACKING:

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP/AULN.

DEWATERING ACTIVITIES:

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

PROCESS WASTEWATER:

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS - ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS - FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS - ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS - CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SANDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL.
5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

1. **VEGETATIVE COVER AND/MULCH** - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 21 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
2. **WATERING** - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS' INSTRUCTIONS.
3. **STRAY-ON ADHESIVES** - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE GAL./AC.
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO-TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO-TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

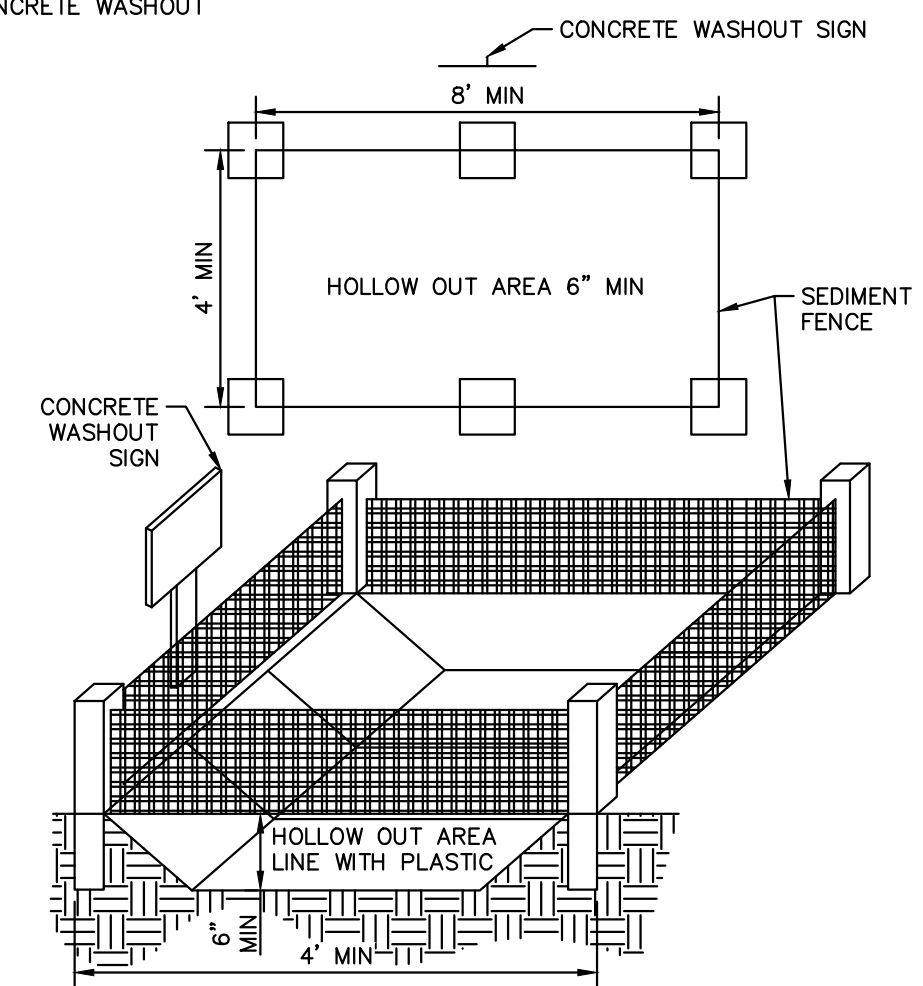
4. **STONE** - GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
5. **BARRIERS** - EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL.
6. **CALCIUM CHLORIDE** - THIS CHEMICAL MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR

FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIERS' SPECIFIED RATES.

7. **OPERATION AND MAINTENANCE** - WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.
8. **STREET CLEANING** - PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET - TYPE ENDLOADER OR SCRAPER.

CONCRETE WASHOUT

SPECIFICATIONS FOR CONCRETE WASHOUT



THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION. THE EXACT LOCATION OF CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTACT.

CONCRETE WASHOUT AREA
N.T.S

1. THE RESIDUE OR CONTENTS OF ALL CONCRETE MIXERS, DUMP TRUCKS, OTHER CONVEYANCE EQUIPMENT AND FINISHING TOOLS SHALL BE WASHED INTO CONCRETE CLEAN-OUT STRUCTURES CONSISTING OF A STRAW BALE BARRIER WITH GRAVEL BACKFILL. THE LENGTH AND WIDTH OF THESE STRUCTURES SHALL BE AS DETERMINED BY THE CONTRACTOR TO FACILITATE THE PARTICULAR EQUIPMENT USED. THESE STRUCTURES SHALL BE CONSTRUCTED ON LEVEL GROUND AT LEAST 100' FROM THE NEAREST WATERCOURSE, DRAINAGE SWALE OR INLET. AT NO TIME SHALL THE STRUCTURE BE ALLOWED TO BE MORE THAN 50% FULL. THE CONTRACTOR SHALL MAINTAIN THESE PONDS UNTIL ALL CONCRETE PLACEMENT IS COMPLETE FOR THE PROJECT.
2. EMBED THE STRAW BALES 4" INTO THE SOIL. PROVIDE TWO ROWS OF BALES, AS SHOWN ON THE DETAIL, WITH ENDS AND CORNERS TIGHTLY ABUTTING. ORIENT THE STRAW BALES LENGTHWISE WITH BINDINGS AROUND THE SIDES OF THE BALES SO THE WIRE DOES NOT CONTACT THE SOIL. DRIVE 2"x2" WOOD STAKES THROUGH EACH BALE, TO SECURELY ANCHOR THE BALE AND CONNECT ADJACENT BALES. GRAVEL BACKFILL SHALL BE PROVIDED AND TAMPED AROUND THE OUTSIDE PERIMETER OF THE BALES TO PREVENT EROSION AND FLOW AROUND THE BALES.
3. THE INTENT OF THESE STRUCTURES IS TO COLLECT ALL CONCRETE WASH OUT WATER AND ALLOW IT TO DRY TO A SOLID MATERIAL. AFTER DRYING, THE SOLID MATERIAL CAN BE REMOVED WITH A LOADER OR EXCAVATOR FOR PROPER DISPOSAL. WASH OUT WILL NOT BE PERMITTED IN ANY OTHER AREAS.
4. USE THE MINIMUM AMOUNT OF WATER TO WASH THE VEHICLES AND EQUIPMENT. NEVER DISPOSE OF WASH OUT INTO THE STREET, STORM INLET, DRAINAGE SWALE OR WATERCOURSE. DISPOSE OF SMALL AMOUNTS OF EXCESS DRY CONCRETE, GROUT AND MORTAR IN THE TRASH. ANY SOAPS THAT ARE UTILIZED SHALL BE PHOSPHATE-FREE AND BIODEGRADABLE.
5. ADDITIONAL CONCRETE CLEAN-OUT STRUCTURES SHALL BE CONSTRUCTED WITHIN THE SPECIFIED AREA AS NEEDED BASED UPON THE VOLUME OF WASH OUT GENERATED DAILY.

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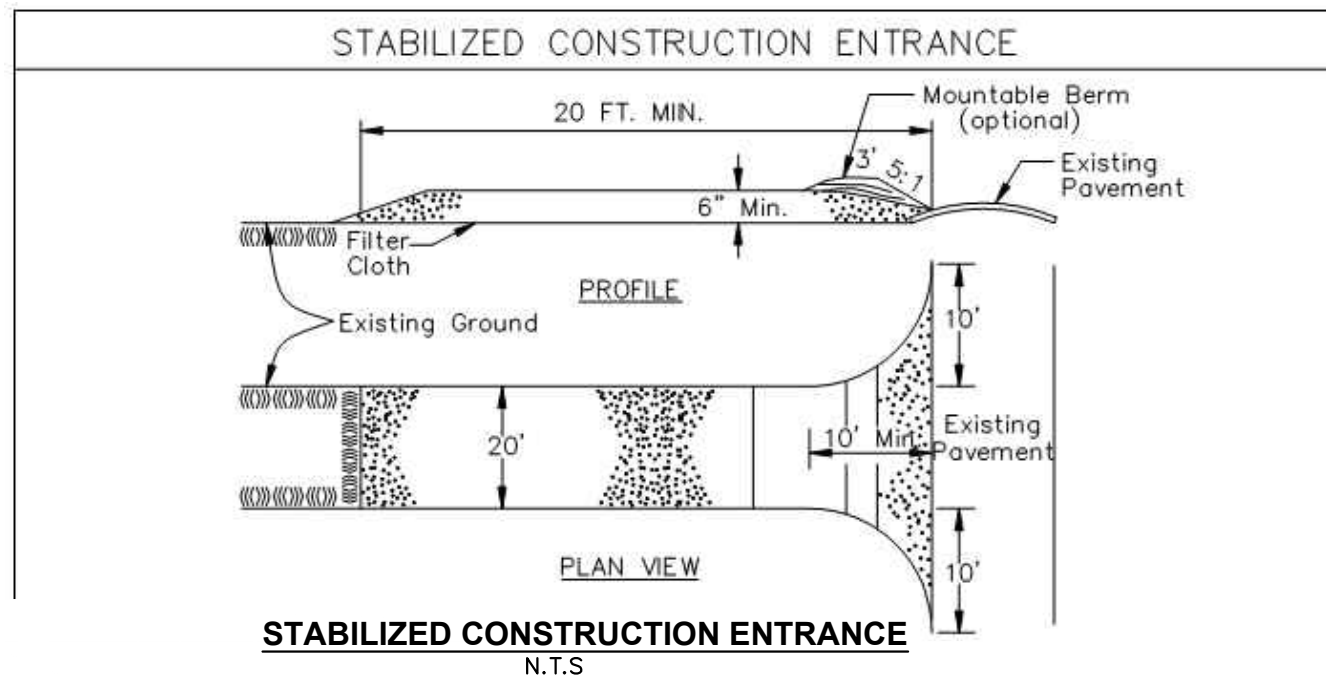
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SHOPS AT EBRIGHT

8140, 8180, 8220 REFUGEE ROAD
PICKERINGTON, OHIO 43147

EROSION & SEDIMENT CONTROL NOTES & DETAILS

FILENAME	C902	SHEET	26 OF 27
SCALE	AS SHOWN		



- STONE SIZE - USE 2 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING MATERIAL IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

SAFETY Spill Containment



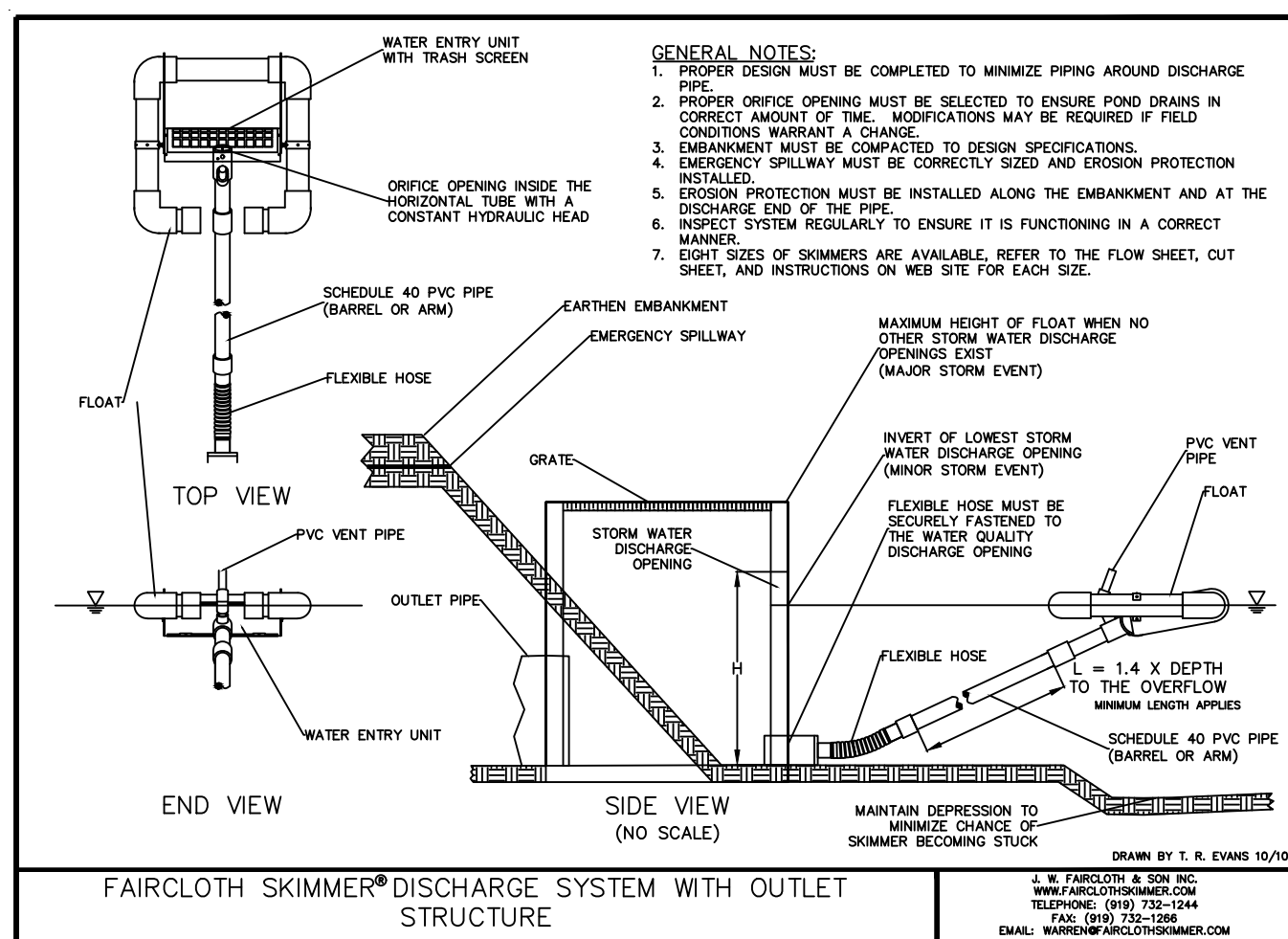
Collapsible Spill Containment Berms and Pools

Berms—Durable chemical-, rip-, tear-, and puncture-resistant berms are also designed for compact storage and transport. Economical units also feature a quick-and-easy setup. Tested welds help ensure maximum performance.

Pools—These spill containment pools provide immediate spill response for a wide range of chemicals, acids, fuels, and other hazardous materials. Just pull the pool out and place it in your preferred area to catch any drips and leaks.

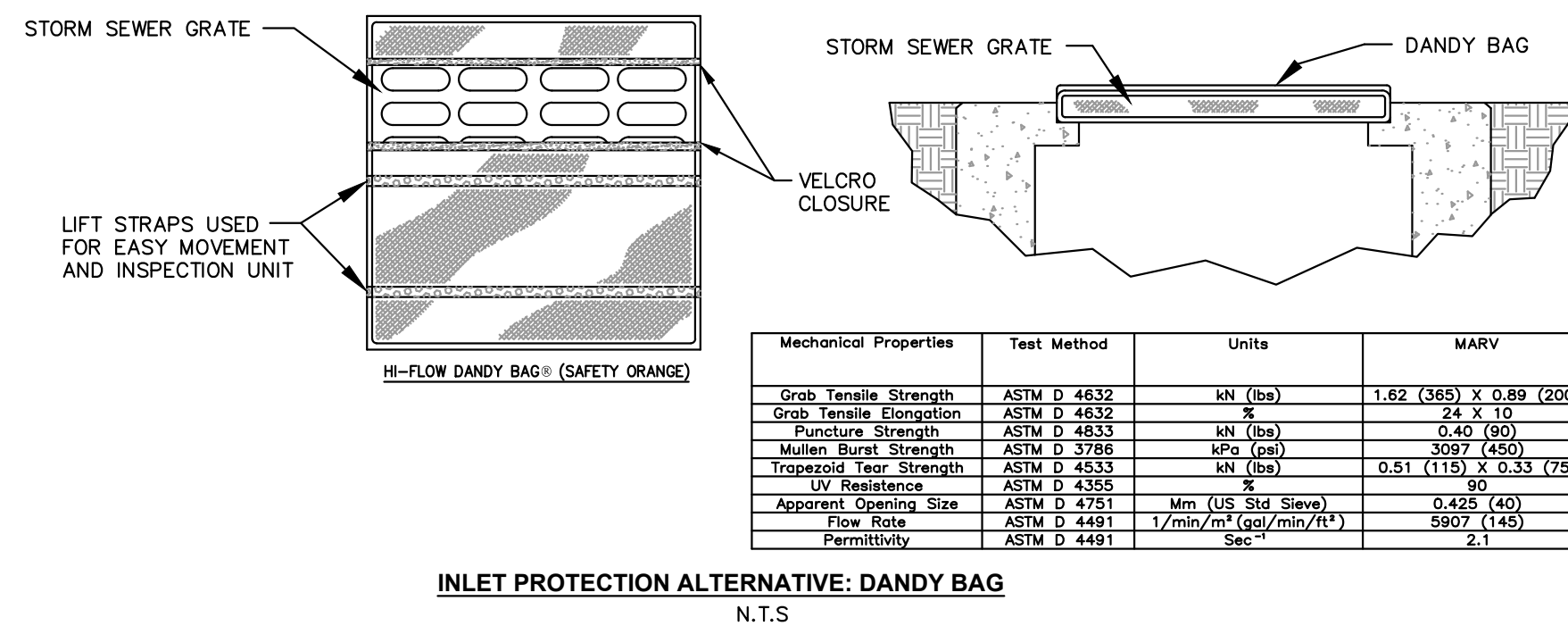
Spill Cap	L	W	H	Item No.
Spill Containment Berms				
119 gal	2 ft	2 ft	12"	45YX94
179 gal	2 ft	3 ft	12"	45YX95
235 gal	2 ft	4 ft	12"	45YX96
299 gal	2 ft	5 ft	12"	45YX97
363 gal	2 ft	6 ft	12"	45YX98
427 gal	2 ft	7 ft	12"	45YX99
491 gal	2 ft	8 ft	12"	45YX91
555 gal	2 ft	9 ft	12"	45YX92
619 gal	2 ft	10 ft	12"	45YX93
683 gal	2 ft	11 ft	12"	45YX94
747 gal	2 ft	12 ft	12"	45YX95
811 gal	2 ft	13 ft	12"	45YX96
875 gal	2 ft	14 ft	12"	45YX97
939 gal	2 ft	15 ft	12"	45YX98
Collapsible Spill Pools				
20 gal	20"	12"	12"	45YY06
48" Outside Dia.	65"	14"	12"	45YY07

GRAINGER SPILL CONTAINMENT BERM OR SIMILAR.
VEHICLE REFUELING AREA
N.T.S.

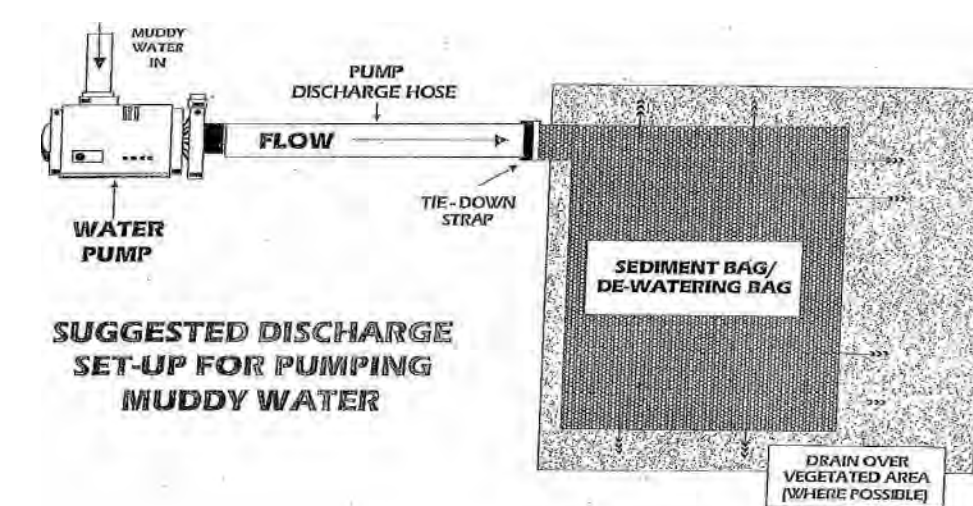


SKIMMER SPECIFICATIONS		
SKIMMER SIZE (N.)	SKIMMER ORIFICE DIAMETER (IN.)	SKIMMER PIPE LENGTH, L (FT.)
BASIN C	2.5	1.9
		2.7

SKIMMER DISCHARGE SYSTEM DETAIL
N.T.S.



INLET PROTECTION ALTERNATIVE: DANDY BAG
N.T.S.



SUGGESTED DISCHARGE SET-UP FOR PUMPING MUDDY WATER

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

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

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



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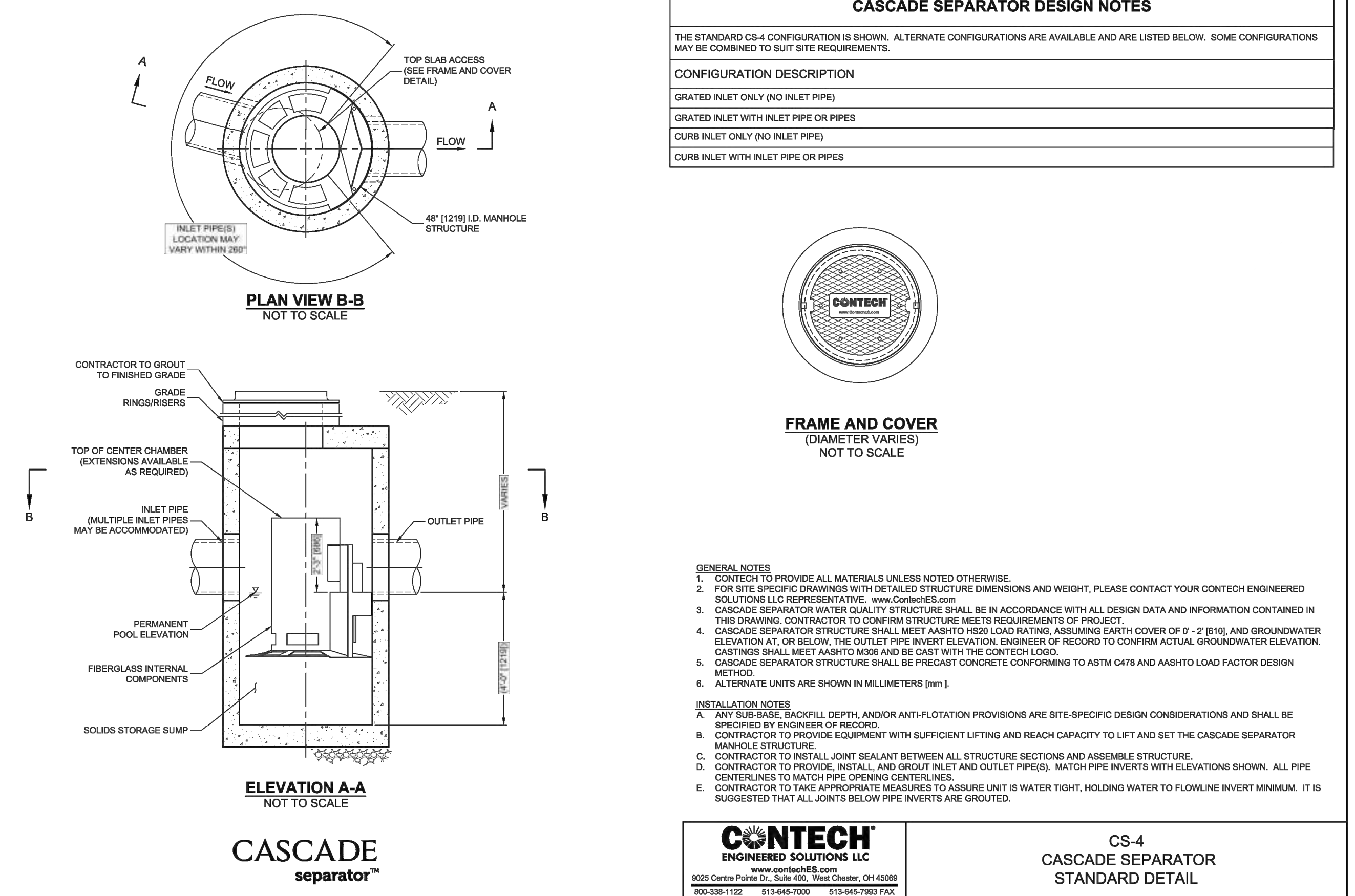
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EROSION & SEDIMENT CONTROL NOTES & DETAILS

FILENAME	C903	SHEET
SCALE	AS SHOWN	27 OF 27



CASCADE separator™



CS-4 CASCADE SEPARATOR STANDARD DETAIL

CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-4 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES

GENERAL NOTES

- C-TECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF $\sigma = 2'$ [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M308 AND BE CAST WITH THE CONTECH LOGO.
- CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
- ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

