



Agenda

Athens Planning Commission

Wednesday, October, 1, 2025 AT 12:00 PM

Streaming is available at www.ci.athens.oh.us/video

Establish Quorum

Disposition of Minutes

- September 17, 2025, Minutes

Cases

- Case 25-06: Columbus Road / Lancaster Street / Columbia Avenue Neighborhood Hub Rezoning
- Case 25-07: Title 41 Application / Hugh White Honda

Communications

Reports

Opportunity for Citizens to Speak About Items Not Covered on the Agenda

Announcements & Other Business

- Avanelle Crossing Development
- Next Meeting: October 15, 2025

Adjournment

Athens City Planning Commission

A regular meeting of the Athens City Planning Commission was held in the City Council Chambers, third floor of City Hall, on September 17, 2025, at 12:00 PM

1. Call to Order

Chair John Kotowski called the meeting to order at 12:00 PM and administered the oath to those in the audience intending to speak before the Commission. A quorum was established.

Planning Commission Members

- Chris Knisely-Absent
- John Kotowski, Chair-Present
- Steve Patterson, Mayor-Absent
- Andy Stone, Service-Safety Director-Present
- Ally Rapp Lee-Present

Staff Present:

- David Riggs- Code Enforcement Director
-

2. Disposition of September 3, 2025, Minutes

Motion: Ms. Rapp Lee moved to approve the minutes.

Second: Ms. Knisely seconded.

Vote: Motion passed unanimously.

3. Cases

No cases presented.

4. Communications

No communications presented.

5. Reports

No reports presented.

6. Opportunity for Citizens to Speak About Items Not Listed on the Agenda

- No additional comments were offered on items not listed on the agenda.
-

7. Announcements & Other Business

Sowash Law Office's Request

- **Overview**
 - Staff reported on two projects in The Plains. Letters submitted by Mr. Sowash (Aug. 26 and Sept. 2) argued the projects should be considered subdivisions. Staff reviewed the letters and reaffirmed that the projects did not meet subdivision criteria and were not subject to city jurisdiction.
- **Public Comments**
 - Attorney Rusty Rittenhouse, representing Erie Land Company, stated that developers relied on prior determinations, noted the length of project development, raised concerns about revisiting decisions, cited a potential conflict of interest, and urged no further action.
 - Rob Delach asked what criteria the Commission would apply if subdivision regulations were deemed applicable.
 - John Branner expressed support for affordable housing and recommended coordinated planning, expedited review, and involvement of the County Regional Planning Commission.
 - Todd Acheson criticized the lack of hearings, planning, and oversight, and stated that neighbors support affordable housing but want it properly integrated.
- **Commission Discussion**
 - Some members supported a broader legal review to guide future projects.
 - Concern about whether such review would delay current development.
 - Debate over whether questions could be general or must be case-specific.
 - Members considered time implications for the developer if a review were required.

Motion: Ms. Knisely made a motion to request a legal opinion from the City Law Director on whether the projects fall under subdivision regulations.

Second: Ms. Rapp Lee seconded the motion.

Discussion: Consideration of potential burdens to the developer; intent to clarify subdivision applicability for both present and future projects.

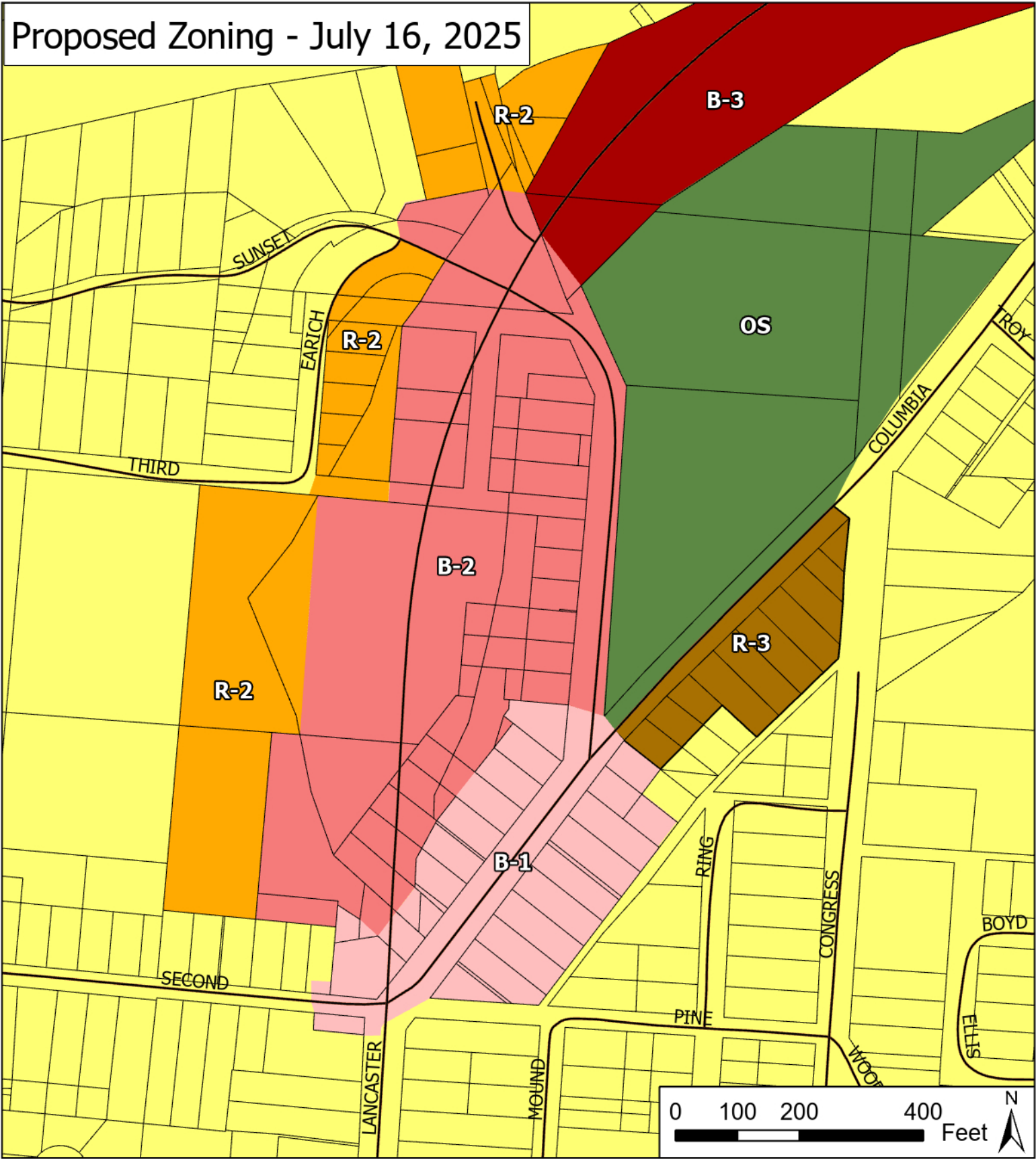
Vote: A Vote of 2-2 resulted in a tie, therefore motion failed.

The Chair clarified that a tied vote means the motion does not pass but could be reconsidered at a future meeting.

8. Adjournment

- Meeting adjourned at 12:46PM

Proposed Zoning - July 16, 2025



Proposed Zone Changes

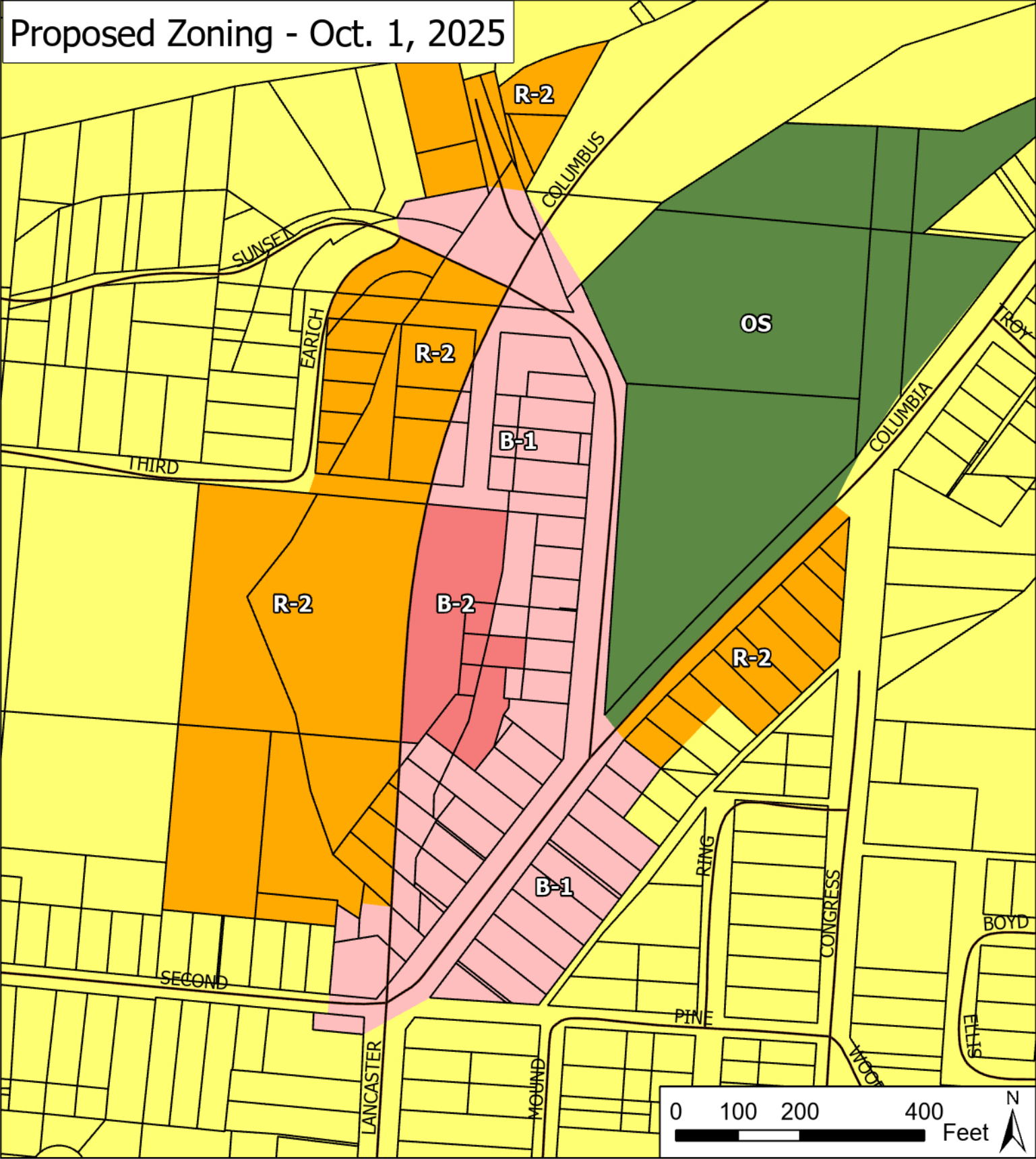
Proposed zone change for properties along N. Lancaster Street, Second Street, Columbia Avenue, and Columbus Road.

Legend

- Road
- Parcel

Zoning

- B-1
- B-2
- B-2D
- B-3
- EI
- M
- OS
- R-1
- R-2
- R-3



Proposed Zone Changes

Proposed zone change for properties along N. Lancaster Street, Second Street, Columbia Avenue, and Columbus Road.

Map created by Athens City Planner. Data recent as of 9/29/2025.

Legend

- Road
- Parcel

Zoning

- B-1
- B-2
- B-2D
- B-3
- EI
- M
- OS
- R-1
- R-2
- R-3

SITE IMPROVEMENT PLANS FOR HUGH WHITE HONDA

250 COLUMBUS RD
ATHENS, OH 45701
ATHENS COUNTY

STANDARD DRAWINGS

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

ODOT:
CB-2-3
CB-2-5
HW-1
MH-3

REFERENCE DOCUMENTS

THE DEVELOPER SHALL MAKE AVAILABLE TO THE CONTRACTOR ALL NECESSARY REFERENCE INFORMATION PERTINENT TO THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THESE DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO:

- BOUNDARY AND TOPOGRAPHIC SURVEY BY THE KLEINGERS GROUP PERFORMED IN MAY 2025.
- ALTANSPS LAND TITLE SURVEY BY THE KLEINGERS GROUP PERFORMED IN MAY 2025.

SITE DEVELOPMENT DATA

OWNER: HUGH WHITE HONDA
250 NORTH COLUMBUS RD
ATHENS, OH 45701-1316
PHONE: (740) 566-5618
CONTACT: BILLY THAGARD
EMAIL: VTHAGARD@WHITECARS.COM

DEVELOPER: ARCHALL ARCHITECTS
49 E 3RD AVE
COLUMBUS, OH 43201
PHONE: (614) 469-7500 X 110
CONTACT: DAVE KALDY
EMAIL: DKALDY@ARCHALL.COM

SITE ENGINEER: THE KLEINGERS GROUP
350 WORTHINGTON ROAD, SUITE H
WESTERVILLE, OH 43082
PHONE: (614) 882-4311
FAX: (614) 882-4479
CONTACT: BRENDAN FLEMING
EMAIL: BRENDAN.FLEMING@KLEINGERS.COM

PARCEL ID: A010010075701

EXISTING USE: AUTO DEALERSHIP

PROPOSED USE: AUTO DEALERSHIP

EXISTING ZONING DISTRICT: GENERAL BUSINESS ZONE (B-3)

ADJACENT ZONING DISTRICTS: GENERAL BUSINESS (S,E,&W), ROADWAY (N)

TOTAL SITE AREA: 23.31 AC

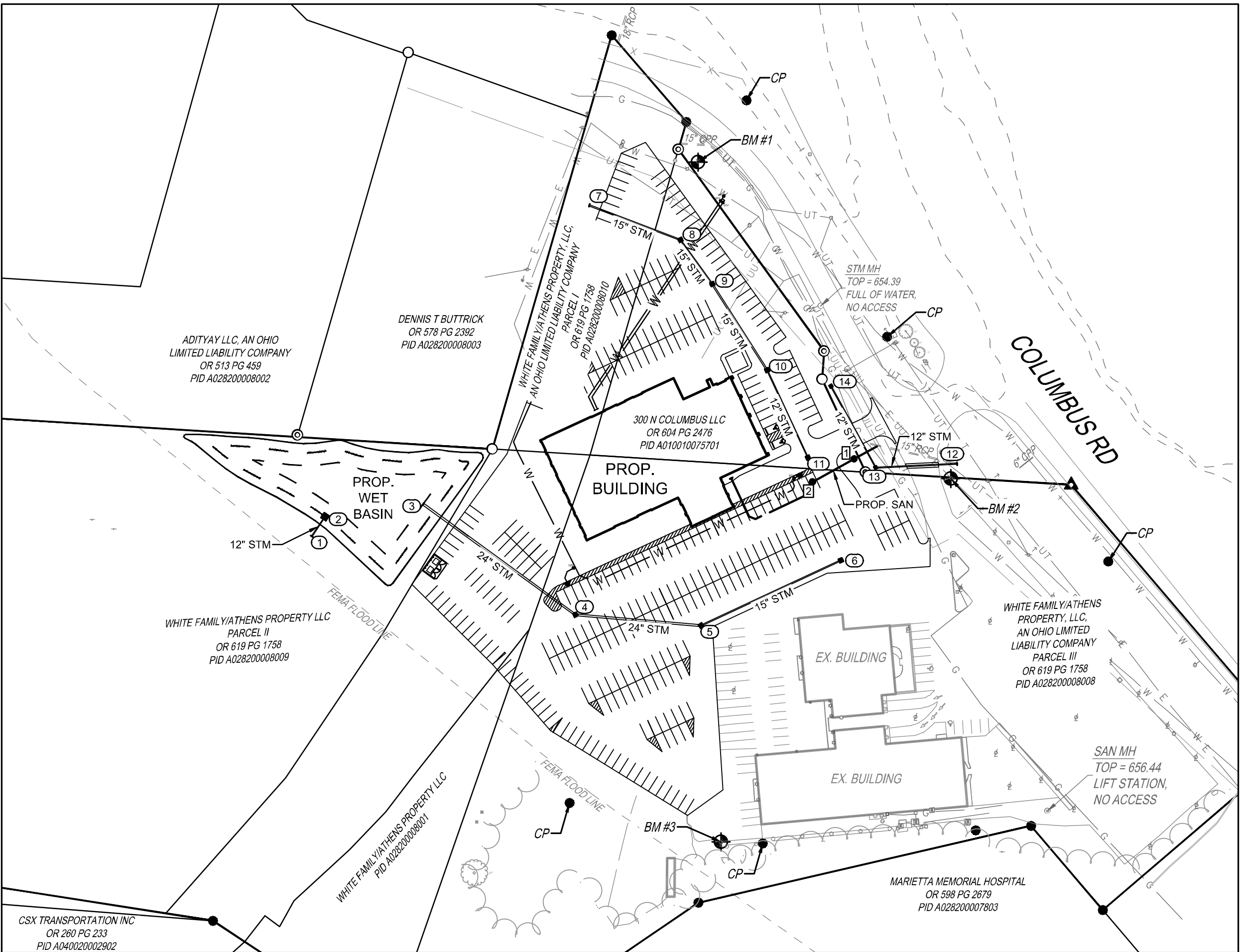
EXISTING BUILDING AREA: 25,116 SF

PROPOSED BUILDING AREA: 24,215 SF

TOTAL BUILDING AREA: 49,331 SF

REQUIRED PARKING SPACES FOR PROPOSED BUILDING: AUTOMOBILE SALES/SERVICE GARAGE: 1 PER 800 SF (24,215 / 800 = 31 SPACES)

PROPOSED PARKING SPACES: 31 SPACES (ADDITIONAL SPACES WILL BE USED AS STAGING SPACES)



INDEX MAP
SCALE: 1" = 100'



UTILITY COMPANIES: OHIO UTILITY PROTECTION SERVICE

OUPS - 48 HOURS "CALL BEFORE YOU DIG"
8-1-1 OR
1-800-362-2764

WATER/SANITARY

SUNDAY CREEK VALLEY WATER DISTRICT
15945 SECOND STREET
MILLFIELD, OH 45671
740-797-2566

CITY OF ATHENS ENGINEERING PUBLIC WORKS DEPT.
395 WEST STATE STREET
ATHENS, OH 45701
740-593-7636

ELECTRIC

AMERICAN ELECTRIC POWER (AEP)
850 TECH CENTER DRIVE
GAHANNA, OH 43230
SUBDIVISIONS & COMMERCIAL
614-883-6851

ROADWAY

ODOT DISTRICT 10
338 MUSKINGUM DRIVE
MARIETTA, OH 45750
740-373-0212

TELEPHONE

VERIZON
550 LEADER STREET
MARION, OH 43302
740-383-0771

CABLE

TIME WARNER CABLE ENGINEERING
P.O. BOX 2553
1266 DUBLIN ROAD
COLUMBUS, OH 43216
614-481-5000

NATURAL GAS

COLUMBIA GAS
920 GOODALE BLVD
COLUMBUS, OH 43212
614-818-2170



CIVIL ENGINEERING
SURVEYING
LANDSCAPE
ARCHITECTURE

www.kleingers.com
350 Worthington Rd
Suite H
Westerville, OH 43082
614-882-4311

06/12/2025
DATE

BRENDAN M. FLEMING, P.E. E-81971

PROJECT DESCRIPTION

THIS PROJECT WILL CONSIST OF A NEW 24,215 SF RETAIL AND AUTOBODY BUILDING LOCATED NEAR THE EXISTING HUGH WHITE HONDA DEALERSHIP ON THE VACANT PORTION OF THE SITE. CONSTRUCTION WILL INVOLVE STORMWATER MANAGEMENT IMPROVEMENTS THAT INCLUDE A WET DETENTION BASIN AND STORMWATER CONVEYANCE. ADDITIONALLY ASSOCIATED PARKING, DRIVES, AND UTILITY SERVICES WILL BE INCLUDED IN THIS PROJECT.

BENCHMARKS

VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), BASED ON ODOT CORS STATION "STKR"

BENCHMARK	DESCRIPTION	NORTHING	EASTING	ELEVATION
SOURCE BM	CORS STATION "STKR"	404579.70	4353254.47	580.00
BM #1	X CUT ON BOLT OF FIRE HYDRANT	495329.81	2079787.11	653.47
BM #2	PONY SPIKE IN UTILITY POLE	494998.66	2080051.43	652.15
BM #3	MAG NAIL IN LIGHT POLE BASE	494618.83	2079811.29	657.39

BEARINGS SHOWN HEREON ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND NORTH AMERICAN DATUM OF 1983 (2011) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "STKR". PROJECT COORDINATES ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.0003897153 APPLIED AT A BASE POINT OF N 494900.00, E 2080000.00. GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.

FEMA NOTE

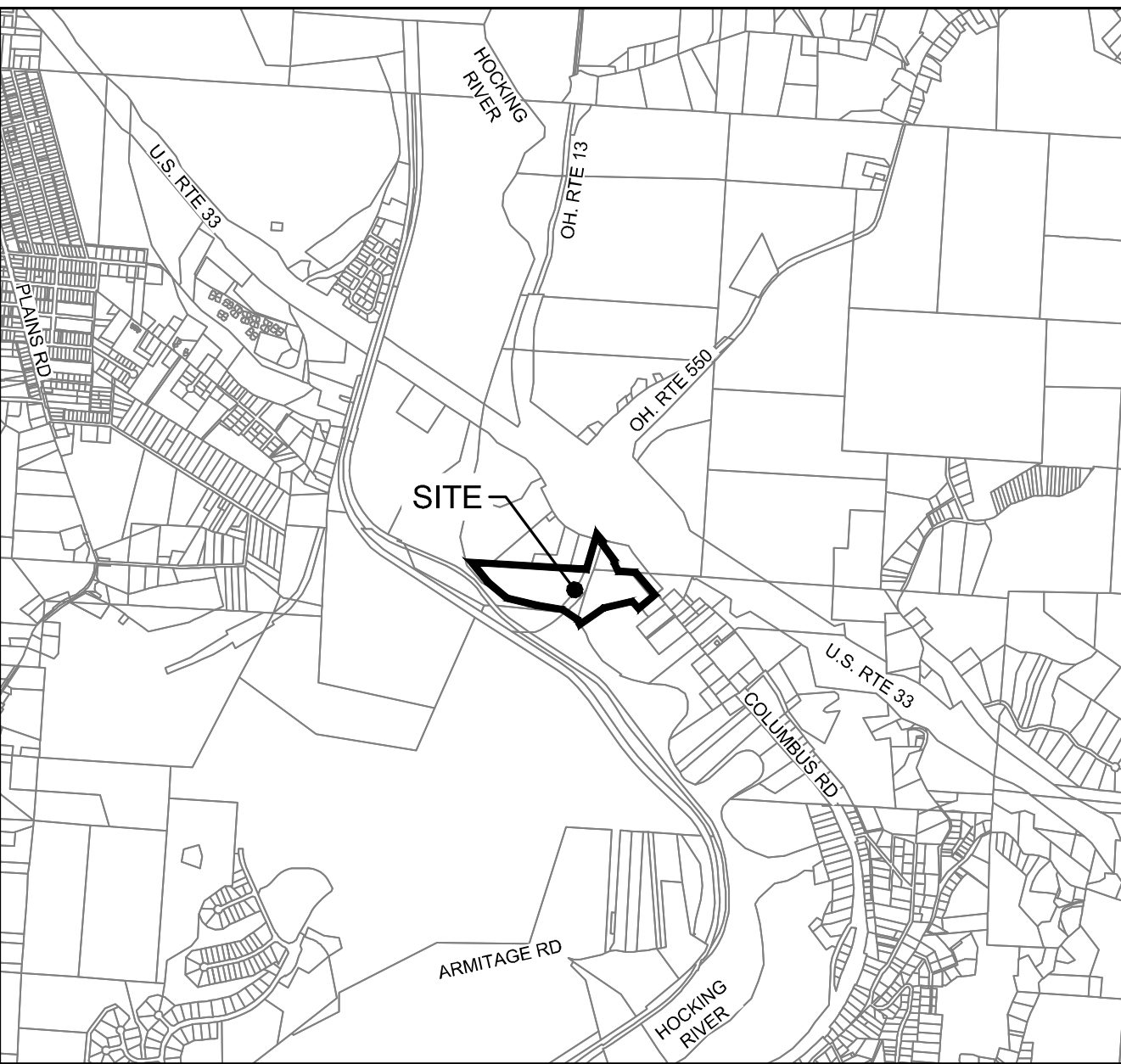
PANEL #	EFFECTIVE DATE	FLOOD ZONES	BFE
38009C9239D	09/26/2024	AE & X	655

SHEET INDEX

C1.00 - TITLE SHEET
C1.01 - GENERAL NOTES & DETAILS
C2.00 - DEMOLITION PLAN
C3.00 - LOCATION PLAN
C4.00 - UTILITY PLAN
C5.00 - OVERALL GRADING PLAN
C6.00 - EROSION CONTROL PLAN
C6.01 - EROSION CONTROL NOTES
C6.02 - EROSION CONTROL DETAILS
C7.00 - FIRE TRUCK TURNING EXHIBIT
L1.00 - PLANTING PLAN
L1.01 - PLANT SCHEDULE & DETAILS
L2.00 - PLANTING SPECIFICATIONS
L2.01 - PLANTING SPECIFICATIONS

SITE DATA TABLE

TOTAL SITE AREA:	23.30 ACRES
TOTAL DEVELOPMENT AREA:	4.54 ACRES
TOTAL DISTURBED AREA:	4.54 ACRES
PRE-DEV. IMPERVIOUS AREA:	1.46 ACRES
POST-DEV. IMPERVIOUS AREA:	3.86 ACRES

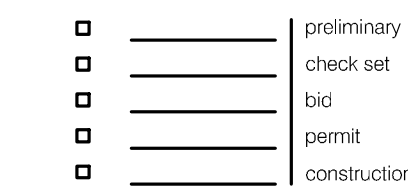


HUGH WHITE HONDA

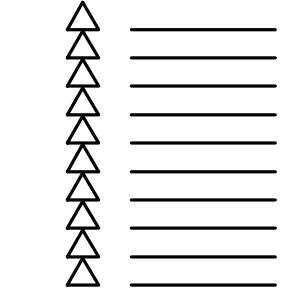
300 COLUMBUS ROAD
ATHENS, OH 45701

DRAWING SET

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REVISIONS



ASI

SEAL

NOT FOR
CONSTRUCTION

archall architects

PROJECT NUMBER

214096.000

SHEET TITLE

TITLE SHEET

SHEET NUMBER

C1.00

PRINT DATE: 4/30/2025 11:13:36 AM C:\Users\Sarah Silvnick\Documents\Revit 2022_02407_L_Hugh White Honda Athens_Central_silvnick.rvt

GENERAL NOTES

- THE CITY OF ATHENS, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS 2023 EDITION), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE ODOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE CITY ATHENS REQUIREMENTS, THE CITY OF ATHENS REQUIREMENTS SHALL PREVAIL.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (8-1-1 OR 1-800-362-2764) 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
- CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
- THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
- THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
- NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
- ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
- ANY CONTRACTOR REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05. IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: OHIO DEPARTMENT OF NATURAL RESOURCES, 2045 MORSE ROAD, COLUMBUS, OHIO 43229, 614-265-6576.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
- ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE FULL DEPTH SAWCUT BEFORE REMOVAL. IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC. IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUT TO NEAT LINES AS DIRECTED BY THE ENGINEER. PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- THE CONTRACTOR SHALL FULL DEPTH SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE. INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

GRADING NOTES

- CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
- PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS EXCAVATED MATERIALS WITHIN DRIP LINE. EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
- ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
- SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECTS RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
- ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR BURY/BORROW PITS AS NEEDED TO BALANCE THE SITE. GEOTECH AND ENGINEER MUST APPROVE AREAS PRIOR TO BURY/BORROW OPERATIONS. AS BUILT OF BURY/BORROW PIT WILL BE REQUIRED AT COMPLETION OF CONTRACTOR WORK AND MUST BE SUBMITTED TO THE CONSTRUCTION MANAGER.
- CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CITY OF ATHENS AND THE OHIO EPA.
- ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
- CONTRACTOR TO LAYOUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

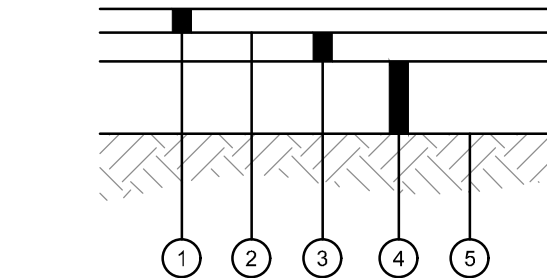
UTILITY NOTES

- ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADE. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
- ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION, PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
- UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
- CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
- ALL CATCH BASINS PLACED WITHIN THE PAVEMENT SHALL HAVE HEAVY DUTY FRAMES AND GRATES. CATCH BASINS WITHIN AN ACCESSIBLE ROUTE SHALL CONFORM TO ADA REQUIREMENTS.
- ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
- ALL CATCH BASINS WITH DEPTH GREATER THAN 6" SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
- ALL STORM AND SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 6" SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
- DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
- IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.

- ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION.
- THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
- ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
- SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
- ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.
- STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE. ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.
- ALL CATCH BASINS IN THE PAVEMENT ARE TO HAVE 4, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED. ALL CATCH BASINS IN THE CURB ARE TO HAVE 2, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED.
- FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER. ALL ROOF DRAINS ARE TO BE 8" UNLESS OTHERWISE NOTED.
- ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: NYLOPLAST-ADS DRAIN BASIN, NDS DURACAST FABRICATED PVC CATCH BASIN, AGRI-DRAIN CATCH BASIN, OR APPROVED EQUAL.
- ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
- ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
- THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.
- SANITARY SEWER SHALL BE SDR-35 OR APPROVED EQUAL AND CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF ATHENS. PIPE MUST MEET MINIMUM SLOPE REQUIREMENTS OF THE CITY OF ATHENS AND OHIO EPA. SANITARY SEWER SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE CROSSINGS. SANITARY SERVICE JOINTS SHALL CONFORM TO ASTM D-3212.
- SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
- ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS. WATERLINE SHALL BE LOCATED A MINIMUM OF 18" HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE. ALL WATER SHALL HAVE A MINIMUM OF 4' OF COVER.
- WATERLINE 4 INCHES AND LARGER SHALL BE DUCTILE IRON PIPE CLASS 52, MINIMUM 250 PSI, AWWA C151 OR PVC AWWA C900, DR 14, PRESSURE CLASS 305 PSI. FIRE SERVICE PIPING SHALL MEET THE REQUIREMENTS OF NFPA 24. WATERLINE 2 INCHES AND UNDER TO BE TYPE "K" SOFT COPPER TUBING, ASTM B 88, OR APPROVED POLYTUBING.

NOTE:

PAVEMENT DESIGN SHALL BE BASED ON THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER. THE KLEINGERS GROUP IS NOT RESPONSIBLE FOR PAVEMENT DESIGN.

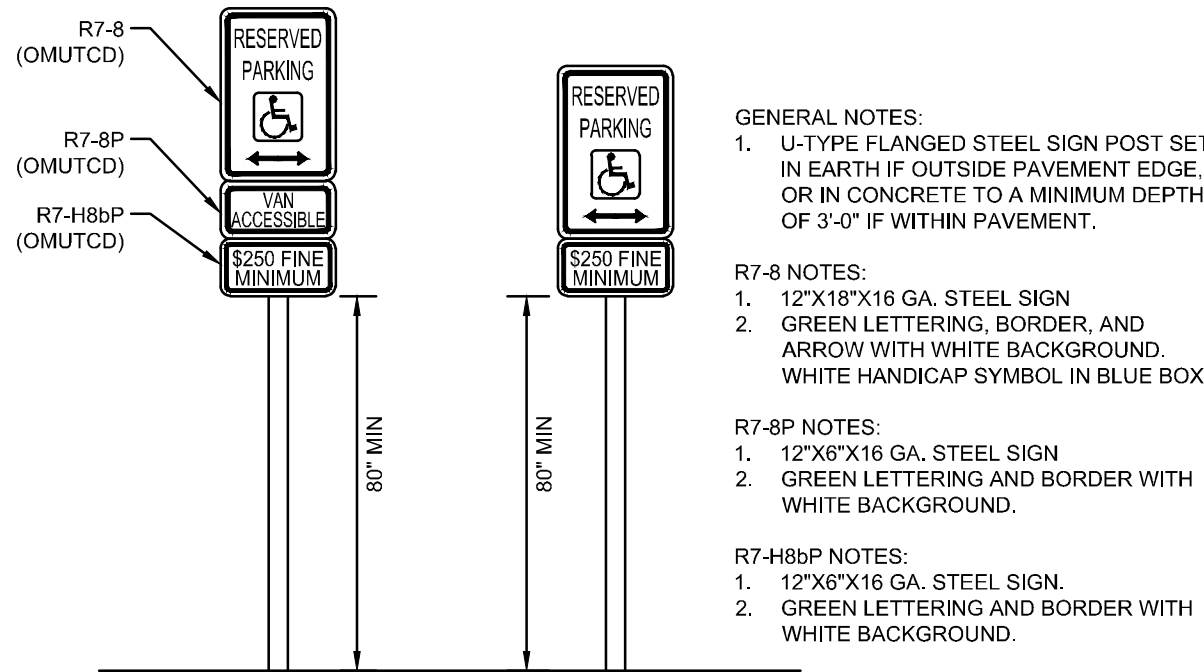


- 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64+22
- ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
- 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) PG64+22
- 8" ODOT ITEM 304 AGGREGATE BASE
- SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204

STANDARD DUTY ASPHALT PAVEMENT DETAIL

N.T.S.

1
C1.01



GENERAL NOTES:
1. L-TYPE FLANGED STEEL SIGN POST SET IN EARTH IF OUTSIDE PAVEMENT EDGE, OR IN CONCRETE TO A MINIMUM DEPTH OF 3'-0" IF WITHIN PAVEMENT.

R7-8 NOTES:
1. 12"X18"X16 GA. STEEL SIGN
2. GREEN LETTERING, BORDER AND ARROW WITH WHITE BACKGROUND. WHITE HANDICAP SYMBOL IN BLUE BOX.

R7-8P NOTES:
1. 12"X6"X16 GA. STEEL SIGN
2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

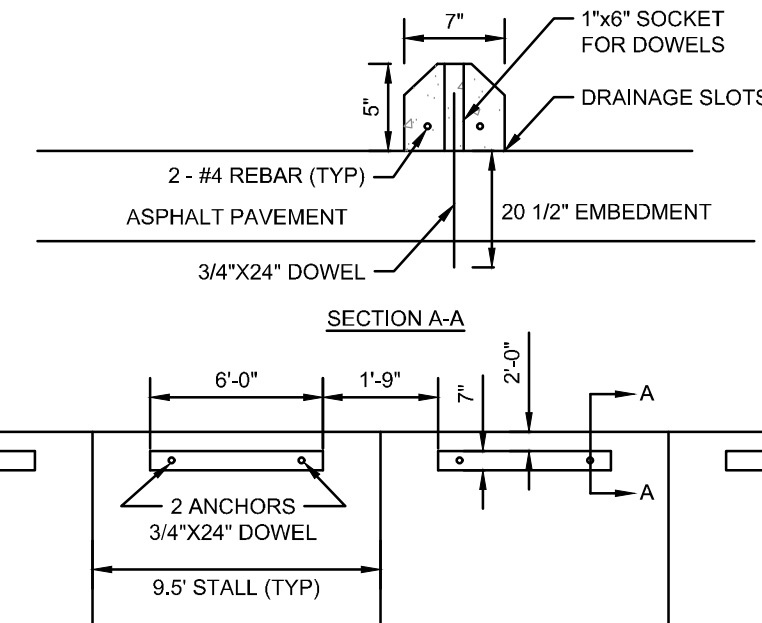
R7-H8P NOTES:
1. 12"X6"X16 GA. STEEL SIGN.
2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

- NOTE:
- ONE ACCESSIBLE PARKING SPACE FOR EVERY SIX OR FRACTION THERE OF SHALL BE DESIGNATED AS "VAN ACCESSIBLE". LOCATION AS NOTED ON THE DRAWINGS.
 - ONE SIGN TO BE INSTALLED AT EACH ACCESSIBLE PARKING SPACE

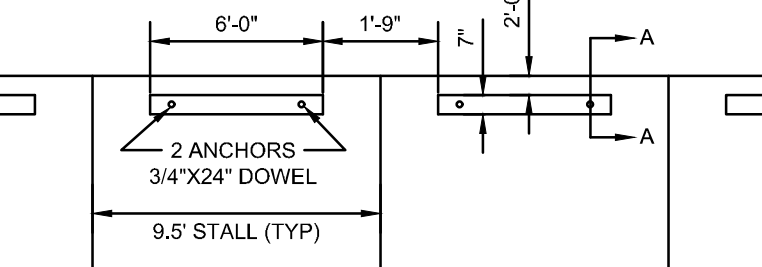
ACCESSIBLE PARKING SIGN DETAIL

N.T.S.

2
C1.01



SECTION A-A

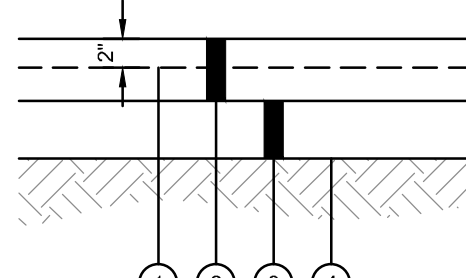


PLAN VIEW

PRECAST CONCRETE WHEEL STOP DETAIL

N.T.S.

3
C1.01



- 6X6 W4XW4 WELDED WIRE REINFORCEMENT
- 8" ODOT ITEM 452 NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- 6" ODOT ITEM 304 AGGREGATE BASE
- SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204

HEAVY DUTY CONCRETE PAVEMENT DETAIL

N.T.S.

4
C1.01



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300 COLUMBUS ROAD
ATHENS, OH 45701

DRAWING SET

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SEAL

NOT FOR CONSTRUCTION

archall architects

PROJECT NUMBER

214096.000

SHEET TITLE

GENERAL NOTES &
DETAILS
SHEET NUMBER

C1.01

EXISTING LEGEND

- 5/8" CAPPED IRON PIN SET
 - 5/8" IRON PIN FOUND
 - 1" IRON PIPE FOUND
 - NAIL SET
 - BENCHMARK
 - UNDERGROUND ELECTRIC
 - TRANSFORMER
 - ELECTRIC BOX
 - CABLE TV BOX
 - LIGHT POLE
 - OVERHEAD ELECTRIC
 - UTILITY POLE
 - GUY WIRE
 - LAMP POST
 - ELECTRIC OUTLET
 - PULL BOX
 - UNDERGROUND TELEPHONE
 - OVERHEAD TELEPHONE
 - GAS MAIN
 - GAS METER
 - GAS VALVE
 - WATER MAIN
 - FIRE HYDRANT
 - WATER VALVE
 - MONITORING WELL
 - SANITARY MANHOLE
 - SANITARY CLEAN OUT
 - STORM SEWER
 - DOWN SPOUT
 - STORM MANHOLE
- FENCE POST
 - SIGN
 - DOUBLE POST SIGN
 - GUARD POST (PIPE BOLLARD)
 - BOLLARD
 - HARDWOOD TREE
 - TREE LINE
 - GUARDRAIL
 - UNDERGROUND UTILITIES
 - CONCRETE
 - GRAVEL

NOTES:

- SOURCE DOCUMENTS AS NOTED.
- OCCUPATION IN GENERAL FITS SURVEY.
- MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE NOTED.
- ALL IRON PIN SET ARE 5/8" DIAMETER x 30" IRON REBAR WITH ID CAP STAMPED "KLEINGERS GROUP".
- DISTANCE UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION (1" = 1200/3937 METERS)
- BEARINGS SHOWN HEREON ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND NORTH AMERICAN DATUM OF 1983 (2011) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "STKR".
- PROJECT COORDINATES ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.0000897153 APPLIED AT A BASE POINT OF N:494900.00, E:2080000.00. GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.
- ALL ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "STKR" USING GEOID CONUS 18.
- SITE BENCHMARKS AS SHOWN HEREON.
- TOPOGRAPHIC INFORMATION IS BASED ON CONVENTIONAL SURVEYING METHODS.
- THIS DRAWING IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED BY THE KLEINGERS GROUP IN MAY, 2025.

DEMOLITION LEGEND

- REMOVE CONCRETE
- REMOVE GRAVEL
- REMOVE EXISTING PAVEMENT
- REMOVE TREES
- REMOVE EXISTING UTILITY LINE
- REMOVE GUARDRAIL
- REMOVE MONITOR WELL
- REMOVE LIGHT POLE
- REMOVE UTILITY POLE
- REMOVE GUY WIRE
- REMOVE WATER VALVE
- REMOVE FIRE HYDRANT
- REMOVE LIGHT POLE
- REMOVE SIGN
- REMOVE FENCE POST
- REMOVE TREE
- SAWCUT LINE



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FILE

HUGH WHITE HONDA

300 COLUMBUS ROAD
ATHENS, OH 45701

DRAWING SET

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PROPOSED LEGEND

- ② CATCH BASIN
- ① HEADWALL
- SANITARY SEWER MANHOLE
- FIRE HYDRANT
- WATER VALVE
- STANDARD DUTY ASPHALT PAVEMENT, SEE DETAIL 1 ON SHEET C1.01.
- REPLACE PAVEMENT IN LIKE KIND
- HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL 4 ON SHEET C1.01.
- 7 PROPOSED PARKING COUNT

CODED NOTES

- ① PROP. ACCESSIBLE PARKING SIGN, SEE DETAIL 2 ON SHEET C1.01.
- ② PROP. WHEEL STOP, SEE DETAIL 3 ON SHEET C1.01.
- ③ PROP. TRASH ENCLOSURE

NOTES

1. NO ADDITIONAL FENCING IS PROPOSED UNDER THIS PROJECT.
2. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.



CLIENT

CONTRACTOR

STRUCTURE

FILE

HUGH WHITE HONDA

300 COLUMBUS ROAD
ATHENS, OH 45701

DRAWING SET

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- preliminary
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PROPOSED LEGEND

- STM STORM SEWER PIPE
- CATCH BASIN
- HEADWALL
- SAN SANITARY SEWER PIPE
- SANITARY SEWER MANHOLE
- WAT WATERLINE PIPE
- FIRE HYDRANT
- WV WATER VALVE

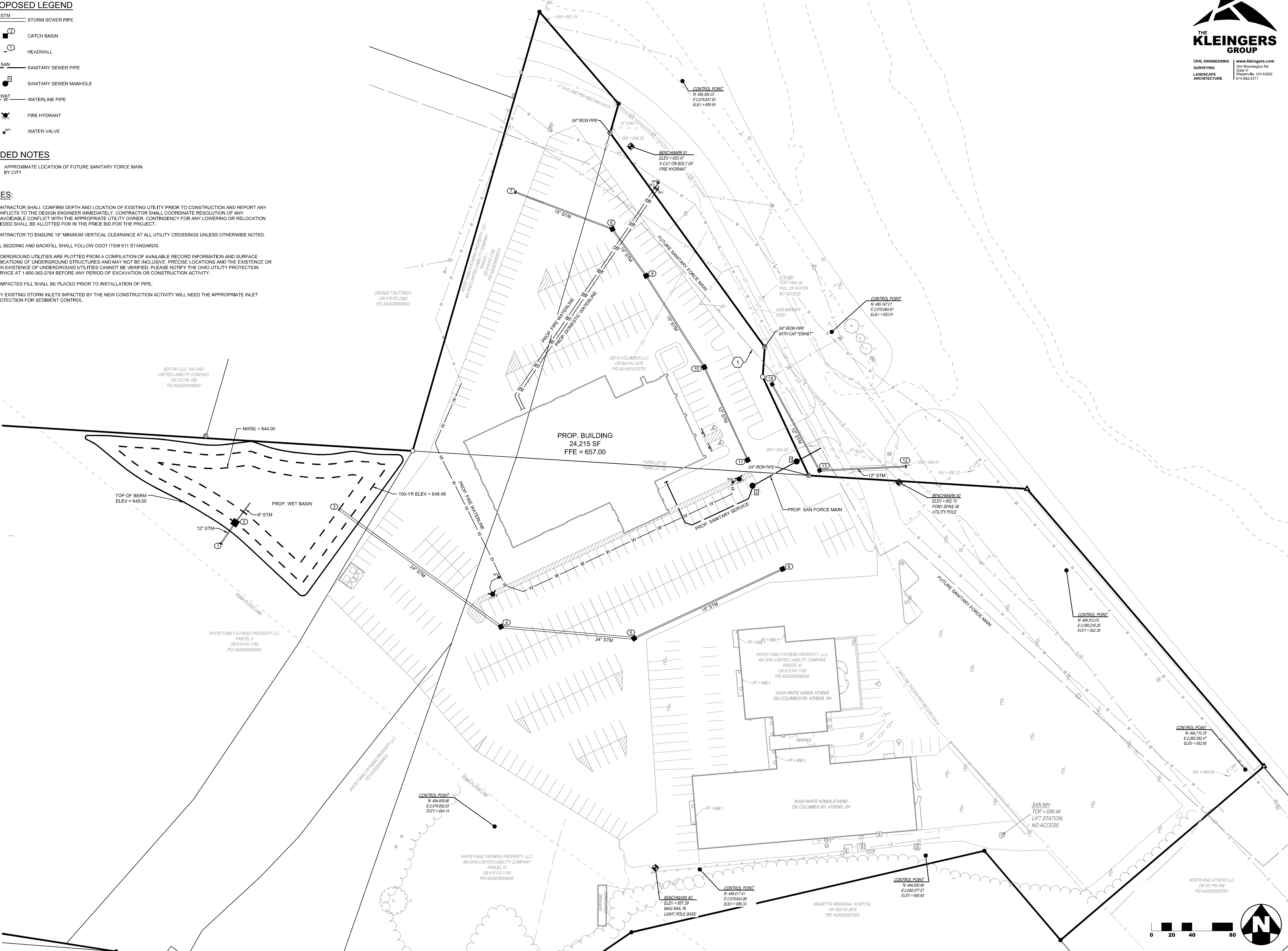
CODED NOTES

- 1 APPROXIMATE LOCATION OF FUTURE SANITARY FORCE MAIN BY CITY

NOTES:

- CONTRACTOR SHALL CONFIRM DEPTH AND LOCATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION AND REPORT ANY CONFLICTS TO THE DESIGN ENGINEER IMMEDIATELY. CONTRACTOR SHALL COORDINATE RESOLUTION OF ANY UNAVOIDABLE CONFLICT WITH THE APPROPRIATE UTILITY OWNER. CONTINGENCY FOR ANY LOWERING OR RELOCATION NEEDED SHALL BE ALLOTTED FOR IN THE PRICE BID FOR THE PROJECT.
- CONTRACTOR TO ENSURE 18" MINIMUM VERTICAL CLEARANCE AT ALL UTILITY CROSSINGS UNLESS OTHERWISE NOTED.
- ALL BEDDING AND BACKFILL SHALL FOLLOW ODOT ITEM 611 STANDARDS.
- UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES AND MAY NOT BE INCLUSIVE. PRECISE LOCATIONS AND THE EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY.
- COMPACTED FILL SHALL BE PLACED PRIOR TO INSTALLATION OF PIPE.
- ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.

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CLIENT

CONTRACTOR

STRUCTURE

PIPE

HUGH WHITE HONDA

300 COLUMBUS ROAD
ATHENS, OH 45701

DRAWING SET

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REVISIONS

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SEAL

NOT FOR CONSTRUCTION

archall architects

PROJECT NUMBER

214096.000

SHEET TITLE

UTILITY PLAN

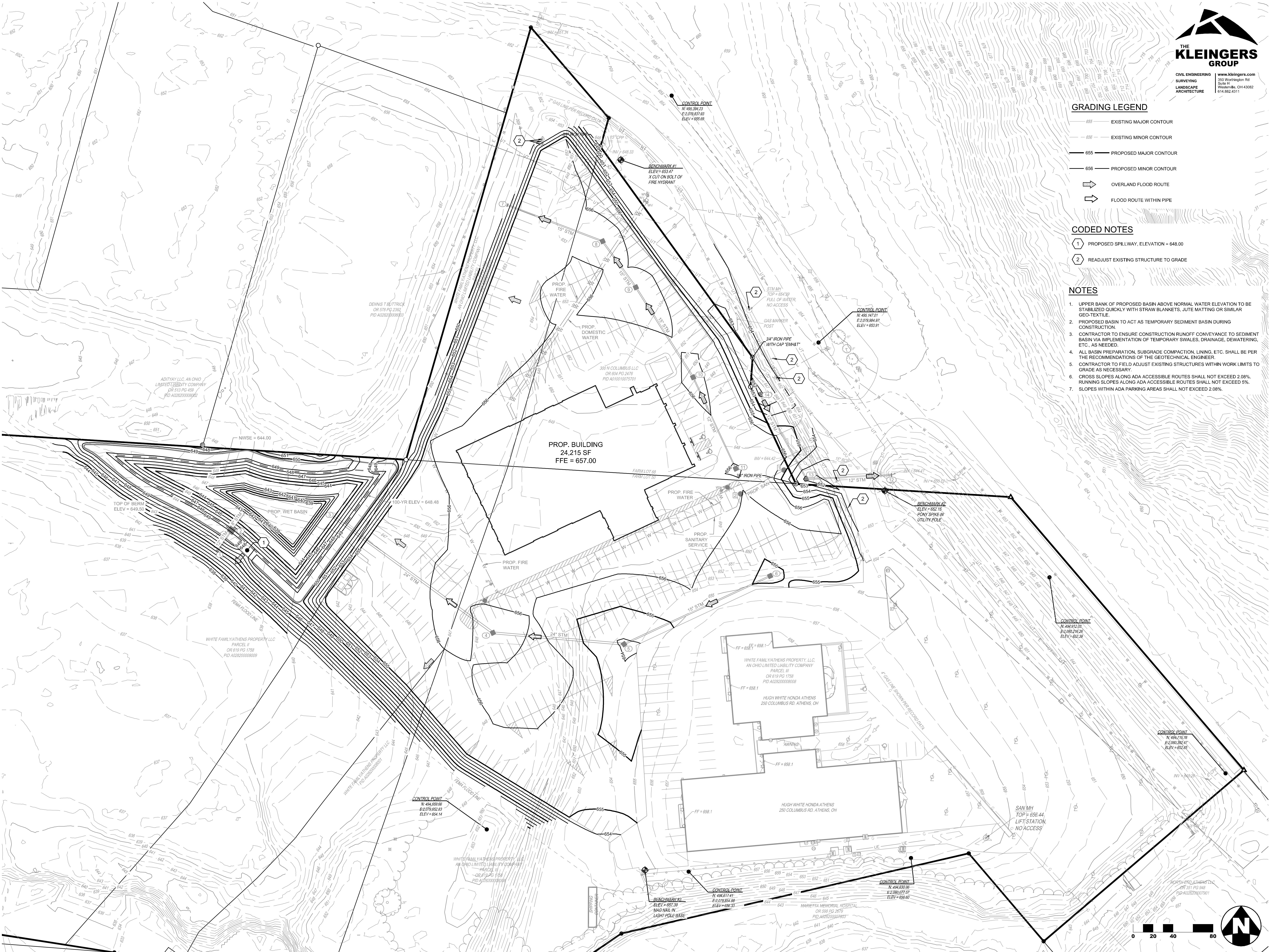
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GRADING LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- OVERLAND FLOOD ROUTE
- FLOOD ROUTE WITHIN PIPE

CODED NOTES

- PROPOSED SPILLWAY, ELEVATION = 648.00
- READJUST EXISTING STRUCTURE TO GRADE

NOTES

- UPPER BANK OF PROPOSED BASIN ABOVE NORMAL WATER ELEVATION TO BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTE MATTING OR SIMILAR GEO-TEXTILE.
- PROPOSED BASIN TO ACT AS TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
- CONTRACTOR TO ENSURE CONSTRUCTION RUNOFF CONVEYANCE TO SEDIMENT BASIN VIA IMPLEMENTATION OF TEMPORARY SWALES, DRAINAGE, DEWATERING, ETC., AS NEEDED.
- ALL BASIN PREPARATION, SUBGRADE COMPACTION, LINING, ETC. SHALL BE PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- CONTRACTOR TO FIELD ADJUST EXISTING STRUCTURES WITHIN WORK LIMITS TO GRADE AS NECESSARY.
- CROSS SLOPES ALONG ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.08%. RUNNING SLOPES ALONG ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 5%.
- SLOPES WITHIN ADA PARKING AREAS SHALL NOT EXCEED 2.08%.

HUGH WHITE HONDA

300 COLUMBUS ROAD
ATHENS, OH 45701

DRAWING SET

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PROJECT NUMBER

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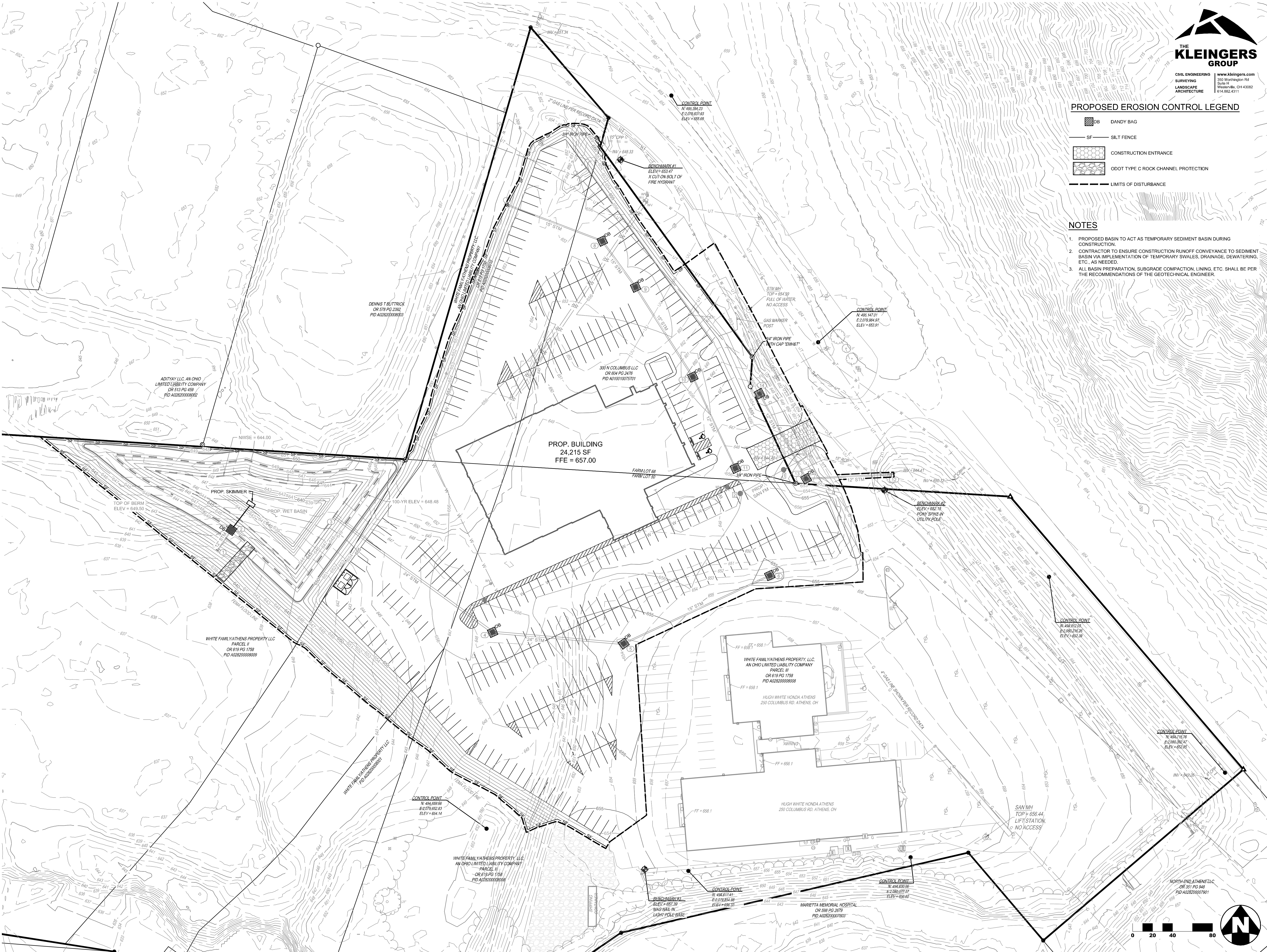
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OVERALL GRADING PLAN

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PROPOSED EROSION CONTROL LEGEND

-  DANDY BAG
-  SILT FENCE
-  CONSTRUCTION ENTRANCE
-  ODOT TYPE C ROCK CHANNEL PROTECTION
-  LIMITS OF DISTURBANCE

NOTES

1. PROPOSED BASIN TO ACT AS TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION.
2. CONTRACTOR TO ENSURE CONSTRUCTION RUNOFF CONVEYANCE TO SEDIMENT BASIN VIA IMPLEMENTATION OF TEMPORARY SWALES, DRAINAGE, DEWATERING, ETC., AS NEEDED.
3. ALL BASIN PREPARATION, SUBGRADE COMPACTION, LINING, ETC. SHALL BE PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

HUGH WHITE HONDA

300 COLUMBUS ROAD
ATHENS, OH 45701

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PROJECT NUMBER
214096.000

SHEET TITLE
EROSION CONTROL PLAN

SHEET NUMBER
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REVISIONS

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PROJECT DATA

PROJECT DESCRIPTION
THE PROJECT WILL CONSIST OF A 24,215 SF NEW RETAIL AND AUTOBODY BUILDING LOCATED NEAR THE EXISTING HUGH WHITE HONDA DEALERSHIP ON THE VACANT PORTION OF THE SITE. CONSTRUCTION WILL INVOLVE STORMWATER MANAGEMENT IMPROVEMENTS THAT INCLUDE A WET DETENTION BASIN AND STORMWATER CONVEYANCE. ADDITIONALLY, ASSOCIATE PARKING, DRIVES, AND UTILITY SERVICES WILL ALSO BE INCLUDED IN THIS PROJECT.

LATITUDE: N 39°21'31.00"
LONGITUDE: W 82°06'22.40"
ESTIMATED CONSTRUCTION DATES: 09/01/2025 - 09/01/2026

TOTAL SITE AREA: 23.30 ACRES
TOTAL DEVELOPMENT AREA: 4.54 ACRES
TOTAL DISTURBED AREA: 4.54 ACRES

EXISTING DEVELOPMENT IMPERVIOUS AREA: 1.46 ACRES
PROPOSED DEVELOPMENT IMPERVIOUS AREA: 2.40 ACRES
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION: 3.86 ACRES
INCREASE IN IMPERVIOUS AREA: 164%

PRE-CONSTRUCTION RUNOFF COEFFICIENT : C=0.58
POST-CONSTRUCTION RUNOFF COEFFICIENT: C=0.87

IMMEDIATE RECEIVING WATER/MS4: HOCKING RIVER
ULTIMATE RECEIVING STREAM: OHIO RIVER

EXISTING LAND USE: CAR DEALERSHIP

SOILS: HAY1AF (HAYMOND SILT LOAM, 0 TO 3 PERCENT SLOPES, FREQUENTLY FLOODED)
NEW1AF (NEWARK SILT LOAM, 0 TO 3 PERCENT SLOPES, FREQUENTLY FLOODED)
UD (UDORHENTS, LOAMY)

CONSTRUCTION SEQUENCE

- TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREWS WILL BE REQUIRED. THE PROPOSED INLET PROTECTION AND SEDIMENT BASINS WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:
- A) INSTALL PERIMETER CONTROLS, INLET PROTECTION, TEMPORARY SEDIMENT BASIN, AND SKIMMER.
 - B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA.
 - C) INSTALL TEMPORARY SEDIMENT CONTROL'S WITHIN 24 HOURS OF STRIPPING OPERATION.
 - D) PERFORM MASS GRADING FOR BUILDING PAD AND FINAL PAVING.
 - E) INSTALL SITE UTILITIES, INSTALLING INLET PROTECTION ON NEW STORM STRUCTURES AS WORK PROGRESSES.
 - F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION REGULATIONS INCLUDING:
 - 1. SEEDING
 - 2. DITCH MATTING
 - 3. INLET PROTECTION
 - 4. MULCHING
 - 5. WATERING
 - G) INSTAIL FINAL PAVING AND FINE GRADE. TOPSOIL SHALL BE REAPPLIED FOLLOWED BY PERMANENT SEEDING.
 - H) PROVIDE PERMANENT STABILIZATION FOR ANY DISTURBED AREAS AND REMOVE PERIMETER CONTROLS, INLET PROTECTION, AND SEDIMENT BASIN SKIMMER.
 - I) MAINTAIN POST CONSTRUCTION BMPs AS REQUIRED.

EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE, OR OTHER INDIVIDUALS AS LISTED BELOW.

TITLE	NAME	PHONE NUMBER
SITE SUPERINTENDENT	_____	_____
PROJECT ENGINEER	_____	_____

IMMEDIATELY AFTER NOTIFICATION, THE EMPLOYEE WILL BE DIRECTED BY THE SAFETY OFFICER, OR RESPONSIBLE PARTY TO START CONTAINMENT PROCEDURES TO PREVENT THE MATERIAL FROM REACHING THE STORM SEWERS, DRAINAGE DITCH, AND OTHER OUTLETS USING THE FOLLOWING ACTIONS OR ANY OTHER MEANS NECESSARY WITHOUT COMPROMISING WORKER SAFETY:

- 1) CLEAR PERSONNEL FROM THE SPILL AREA AND ROPE OFF AREA.
- 2) STOP THE SPILL.
- 3) USE SORBENT MATERIALS, PLUG PUTTY, OR HOLE PUTTY AS NECESSARY TO CONTROL THE SPILL AT THE SOURCE.
- 4) CONSTRUCT A TEMPORARY CONTAINMENT DIKE OF SORBENT MATERIALS OR DIRT TO CONTAIN SPILL.

SPILL KITS WILL BE LOCATED ON THE PROJECT AS DESIGNATED ON THE SWPPP PLAN.

UPON COMPLETION OF CONTAINMENT OPERATIONS, PROPER CLEAN-UP PROCEDURES WILL BE IMPLEMENTED IN ACCORDANCE WITH REGULATORY PROCEDURES.

IF THE SPILL EXCEEDS 25 GALLONS, THE FOLLOWING ORGANIZATIONS SHALL BE CONTACTED WITHIN 30 MINUTES OF THE INCIDENT:
EMERGENCY CONTACTS:

OHIO EPA EMERGENCY RESPONSE CENTER 800-282-9378 (24-HOUR PHONE NO.)

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH REVISIONS IN APRIL 2018 AND IN APRIL 2023. ALSO, MANY PRIVATE CITIZEN, ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL, (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND CLEAN WATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

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.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

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

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

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.

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO. : OH0C000006. (SEE TABLE 1.)

TABLE 1: PERMANENT STABILIZATION	
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO. : OH0C000006. (SEE TABLE 2.)

TABLE 2: TEMPORARY STABILIZATION	
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC, OR 90 LB./1000 SQ. FT. (TWO TO THREE BALES), THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED, FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

- 1) MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 IN.
- 2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
- 3) SYNTHETIC BINDERS-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.
- 4) WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

TEMPORARY SEEDING & MULCHING FOR EROSION CONTROL		
SEED TYPE	PER 1,000 SQ.FT.	PER ACRE
PERENNIAL RYEGRASS	1 POUND	40 POUNDS
TALL FESCUE	1 POUND	40 POUNDS
ANNUAL RYEGRASS	1 POUND	40 POUNDS
SMALL GRAIN STRAW	90 POUNDS	2 TONS
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 POUNDS OF 10-10-10 OR 12-12-12

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OF ANY 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 14 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.

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

INSPECTIONS

ALL BMPs ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED. AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD, A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

- 1. THE INSPECTION DATE;
- 2. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
- 3. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
- 4. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
- 5. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
- 6. LOCATION(S) OF BMPs THAT NEED TO BE MAINTAINED;
- 7. LOCATION(S) OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
- 8. LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
- 9. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPs SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF THE CORRECTIONS. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT OMS SECTION 108.07.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

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 14 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. **SPRAY-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

PERMITTEE

NAME
ADDRESS1
ADDRESS2
PHONE:
FAX:
CONTACT:
EMAIL:

GENERAL PERMIT: OH0C000006

NPDES PERMIT: FORTHCOMING

DATE OF ISSUE: FORTHCOMING

SPILL PREVENTION

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 STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

- 1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- 2. 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.
- 3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- 4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- 5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- 6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- 7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

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

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, SAWDUST, 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. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.
- 5. SOLIDS 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 (TSDP).
- 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.

PRODUCT SPECIFIC PRACTICES

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 MANUFACTURERS' 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 STORM WATER. 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 WASH WATER/WASH OUTS

CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.



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CLIENT

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STRUCTURE

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HUGH WHITE HONDA

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ATHENS, OH 45701

DRAWING SET ©2024 archall architects llc

preliminary
check set
bid
permit
construction

REVISIONS

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680.424.4555

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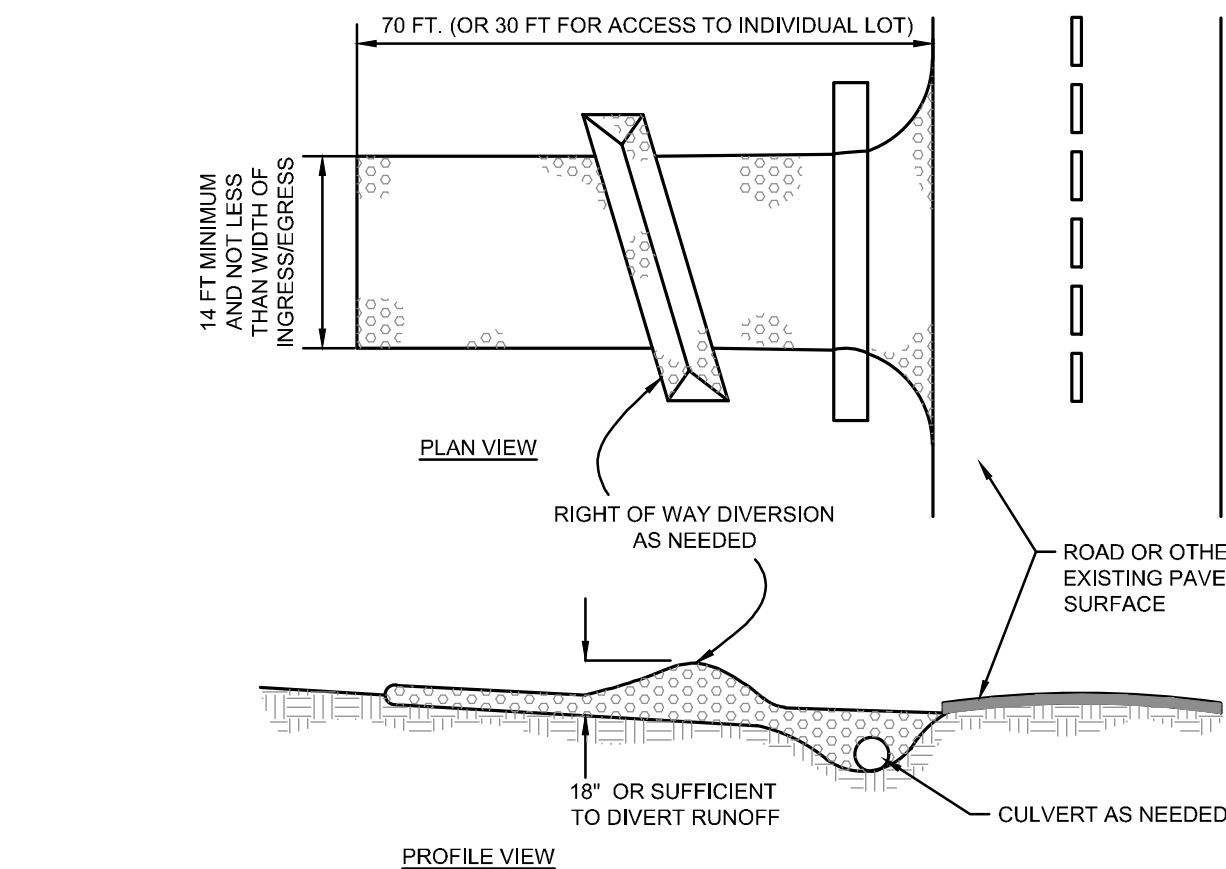
SEAL

NOT FOR CONSTRUCTION

archall architects

PROJECT NUMBER
214096.000
SHEET TITLE
EROSION CONTROL NOTES
SHEET NUMBER

C6.01



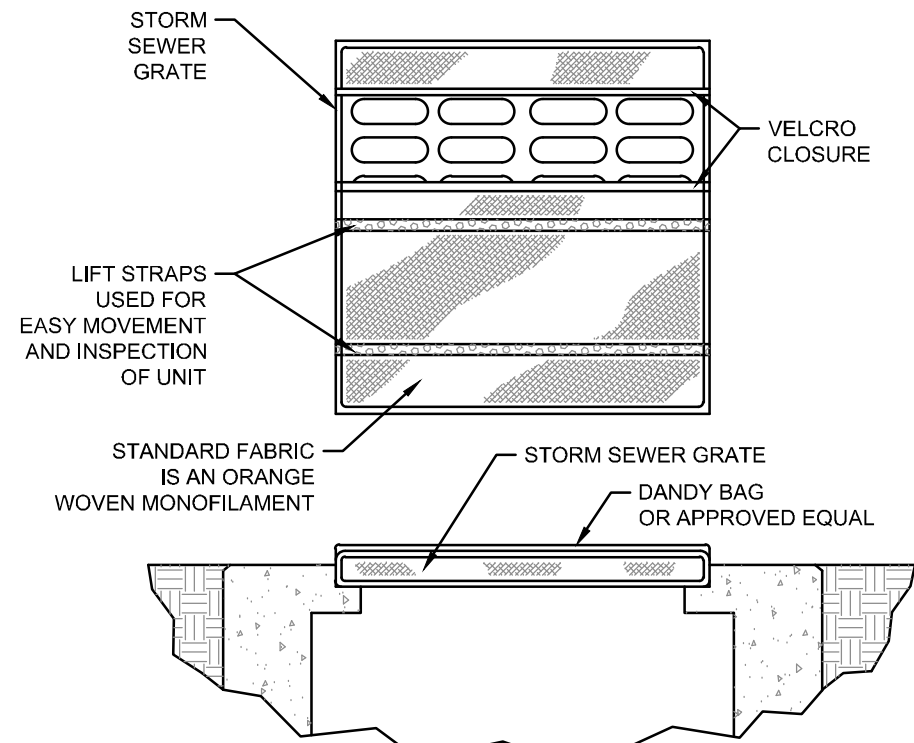
NOTES

- STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
- THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
- WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH.....	200 LBS
MINIMUM PUNCTURE STRENGTH.....	80 LBS
MINIMUM TEAR STRENGTH.....	50 LBS
MINIMUM BURST STRENGTH.....	320 PSI
MINIMUM ELONGATION.....	20%
EQUIVALENT OPENING SIZE.....	EQ< 0.08MM
PERMITTIVITY.....	1X10 ⁻⁶ CM/SEC
- TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

CONSTRUCTION ENTRANCE DETAIL

N.T.S.



SPECIFICATIONS

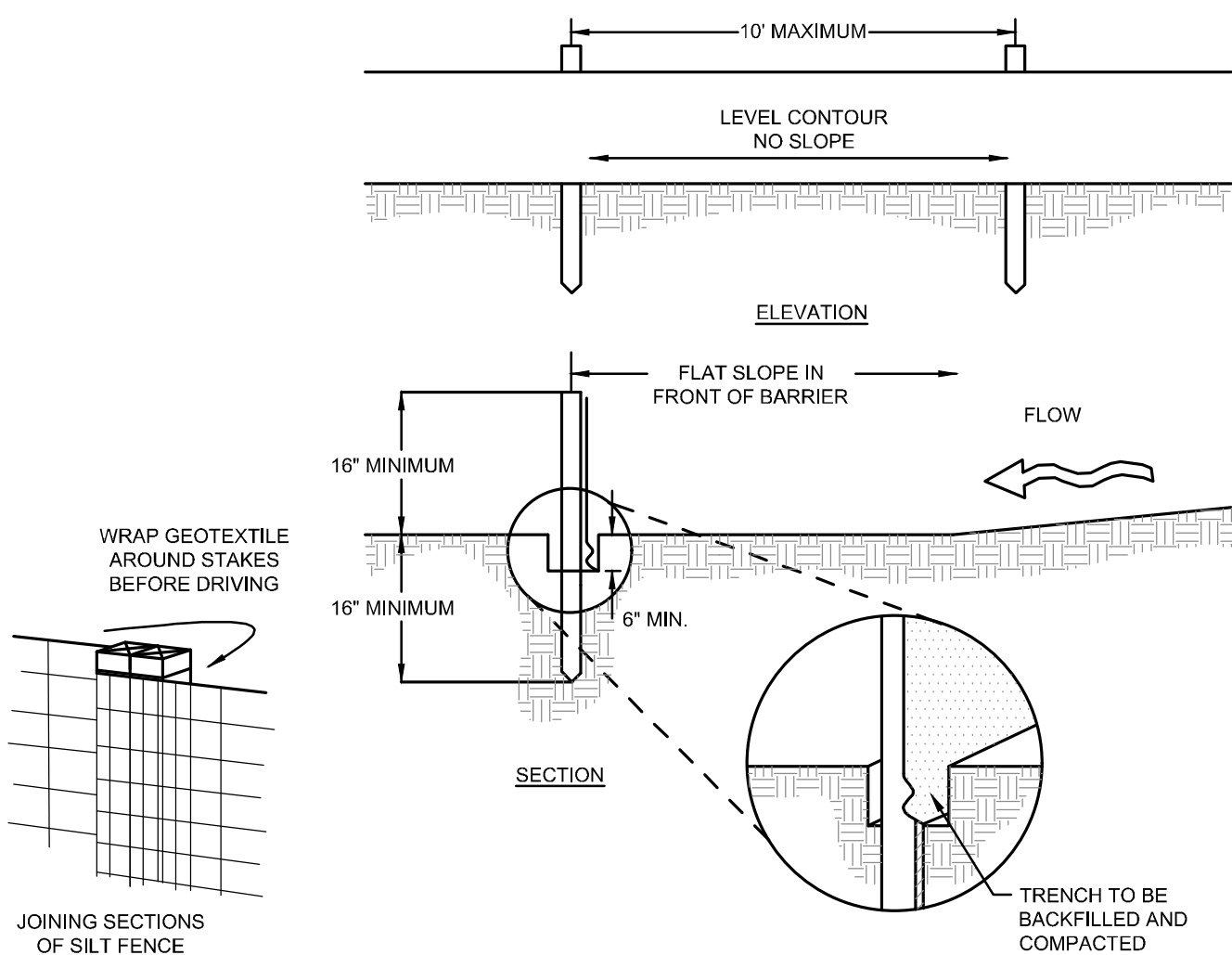
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3087 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4481	1/MIN/IN (GAL/MIN/FT)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC	2.1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRATE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS: REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

DANDY BAG DETAIL

N.T.S.



NOTES:

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLOPED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
- SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND.
- MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.

SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

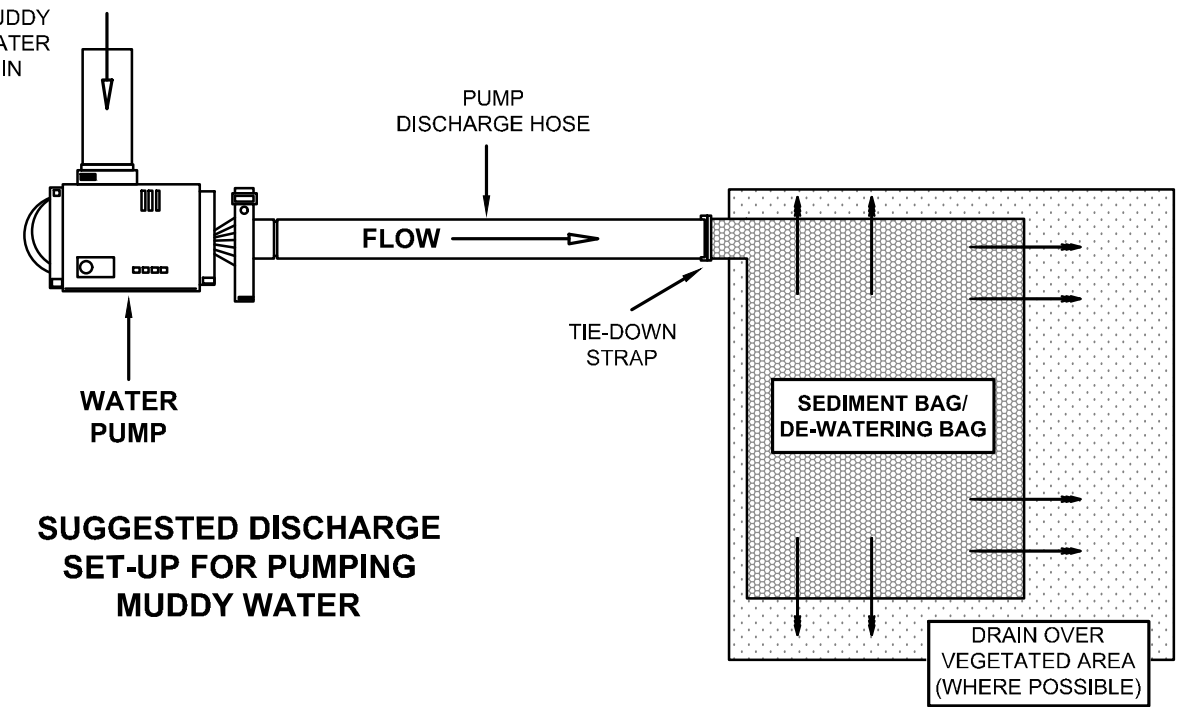
CRITERIA FOR SILT FENCE MATERIALS

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

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

SILT FENCE DETAIL

N.T.S.



NOTICE

THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA REGULATIONS & COUNTY REGULATIONS.

ALL INLET RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES 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.

FILTER BAG DETAIL (IF REQUIRED)

N.T.S.



CONTRACTOR _____

STRUCTURE

PME

300 COLUMBUS ROAD
ATHENS, OH 45701

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480.424.4585



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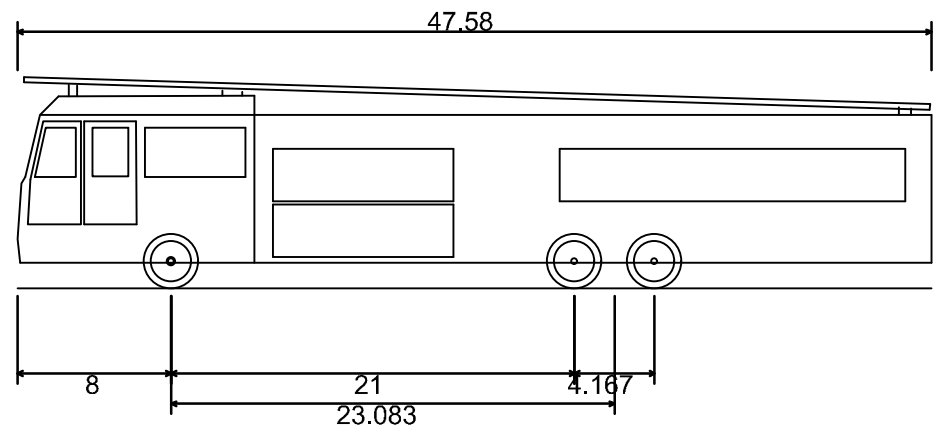
201 sco

archall architects 49 e third ave | columbus, oh | 43201
7702 e doubletree ranch rd #352 | sco

PROJECT NUMBER _____

SHEET TITLE

SHEET NUMBER



ADITYAY LLC, AN OHIO
LIMITED LIABILITY COMPANY
OR 513 PG 459
PID A028200008002

WHITE FAMILY/ATHENS PROPERTY LLC
PARCEL II
OR 619 PG 1758
PID A028200008009

WHITE FAMILY/ATHENS PROPERTY LLC
PID A028200008001

DENNIS T BUTTRICK
OR 578 PG 2392
PID A028200008003

WHITE FAMILY/ATHENS PROPERTY, LLC,
AN OHIO LIMITED LIABILITY COMPANY
PARCEL III
OR 619 PG 1758
PID A0282000080008

PROP. BUILDING
24,215 SF
FFE = 657.00

~~FARM LOT 68~~
~~FARM LOT 50~~

300 N COLUMBUS LLC
OR 604 PG 2476
PID A010010075701

CONTROL POINT
N: 495,394.23
E: 2,079,837.93
ELEV = 655.69

BENCHMARK #3
ELEV = 657.39
MAG NAIL IN
LIGHT POLE BASE

CONTROL POINT
N: 494,617.41
E: 2,079,854.98
ELEV = 656.33

MARIETTA MEMORIAL HOSPITAL
OR 598 PG 2679
PID A028200007803

CONTROL POINT
N: 494,630.96
E: 2,080,077.57
FL EV = 656.60

CONTROL POINT
N: 495,147.01
E: 2,079,984.97
ELEV = 653.91

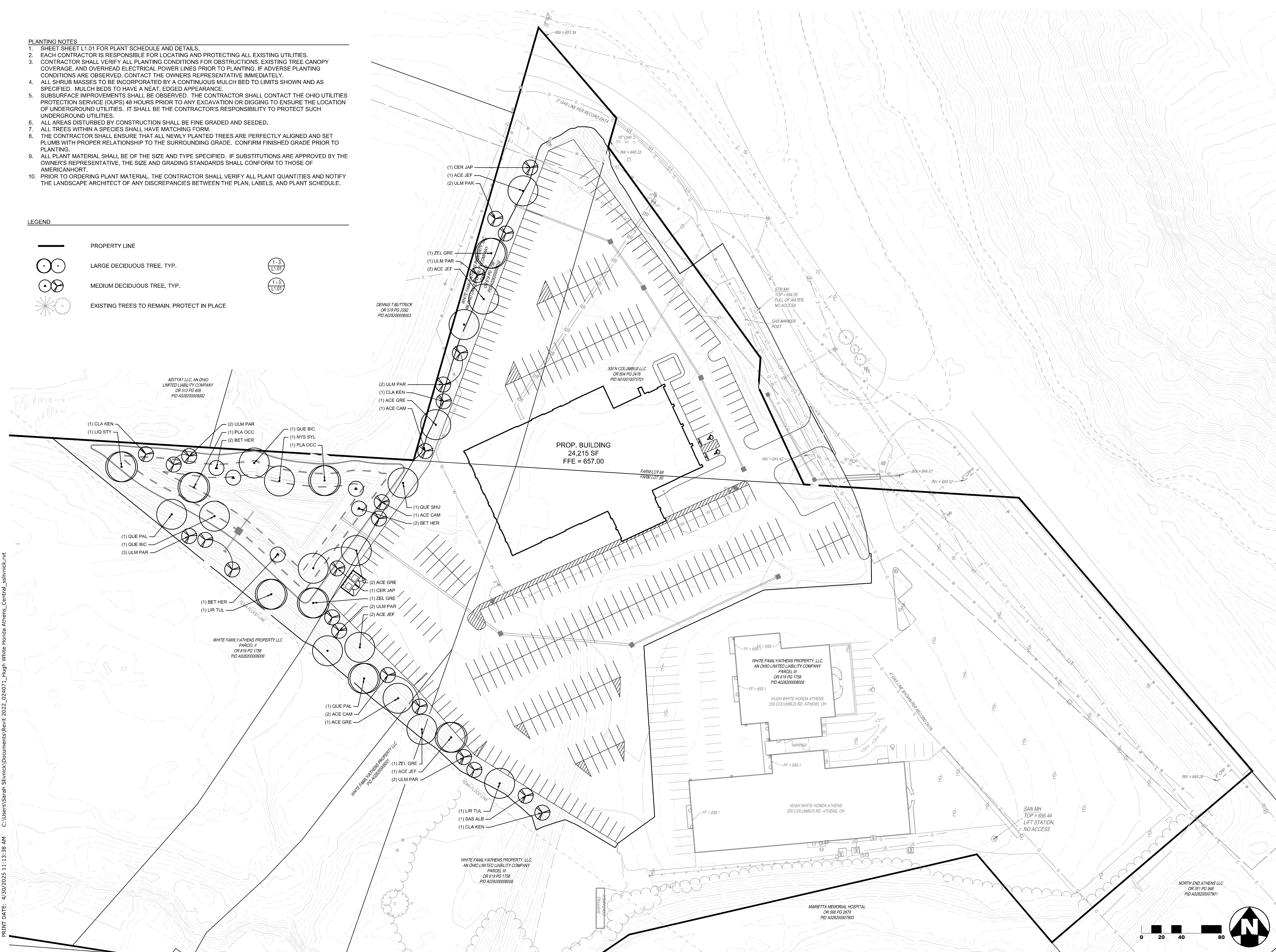
BENCHMARK
ELEV = 652.15
PONY SPIKE IN
UTILITY POLE

CONTROL POINT
N: 494,912.03
E: 2,080,216.26
ELEV = 652.39

CONTROL POINT
N: 494,715.76
E: 2,080,392.47
ELEV = 652.85

1. SHEET SHEET L1.01 FOR PLANT SCHEDULE AND DETAILS.
2. EACH CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
3. CONTRACTOR SHALL VERIFY ALL PLANTING CONDITIONS FOR OBSTRUCTIONS, EXISTING TREE CANOPY COVERAGE, AND OVERHEAD ELECTRICAL POWER LINES PRIOR TO PLANTING. IF ADVERSE PLANTING CONDITIONS ARE OBSERVED, CONTACT THE OWNERS REPRESENTATIVE IMMEDIATELY.
4. ALL SHRUB MASSES TO BE INCORPORATED BY A CONTINUOUS MULCH BED TO LIMITS SHOWN AND AS SPECIFIED. MULCH BEDS TO HAVE A NEAT, EDGED APPEARANCE.
5. SUBSURFACE IMPROVEMENTS SHALL BE OBSERVED. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) 48 HOURS PRIOR TO ANY EXCAVATION OR DIGGING TO ENSURE THE LOCATION OF UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT SUCH UNDERGROUND UTILITIES.
6. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE FINE GRADED AND SEEDDED.
7. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM.
8. THE CONTRACTOR SHALL ENSURE THAT ALL NEWLY PLANTED TREES ARE PERFECTLY ALIGNED AND SET PLUMB WITH PROPER RELATIONSHIP TO THE SURROUNDING GRADE. CONFIRM FINISHED GRADE PRIOR TO PLANTING.
9. ALL PLANT MATERIAL SHALL BE OF THE SIZE AND TYPE SPECIFIED. IF SUBSTITUTIONS ARE APPROVED BY THE OWNER'S REPRESENTATIVE, THE SIZE AND GRADING STANDARDS SHALL CONFORM TO THOSE OF AMERICANHORT.
10. PRIOR TO ORDERING PLANT MATERIAL, THE CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE PLAN, LABELS, AND PLANT SCHEDULE.

	PROPERTY LINE
	LARGE DECIDUOUS TREE, TYP.
	MEDIUM DECIDUOUS TREE, TYP.
	EXISTING TREES TO REMAIN, PROTECT IN PLACE



CLIENT

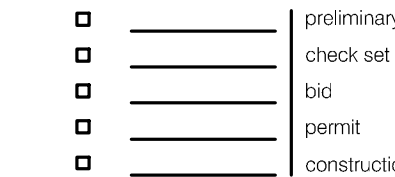
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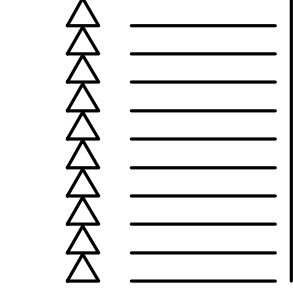
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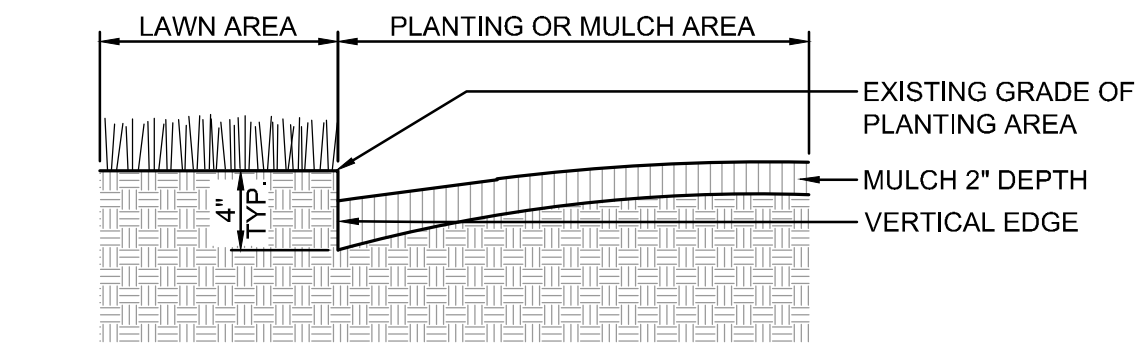
PROJECT NUMBER

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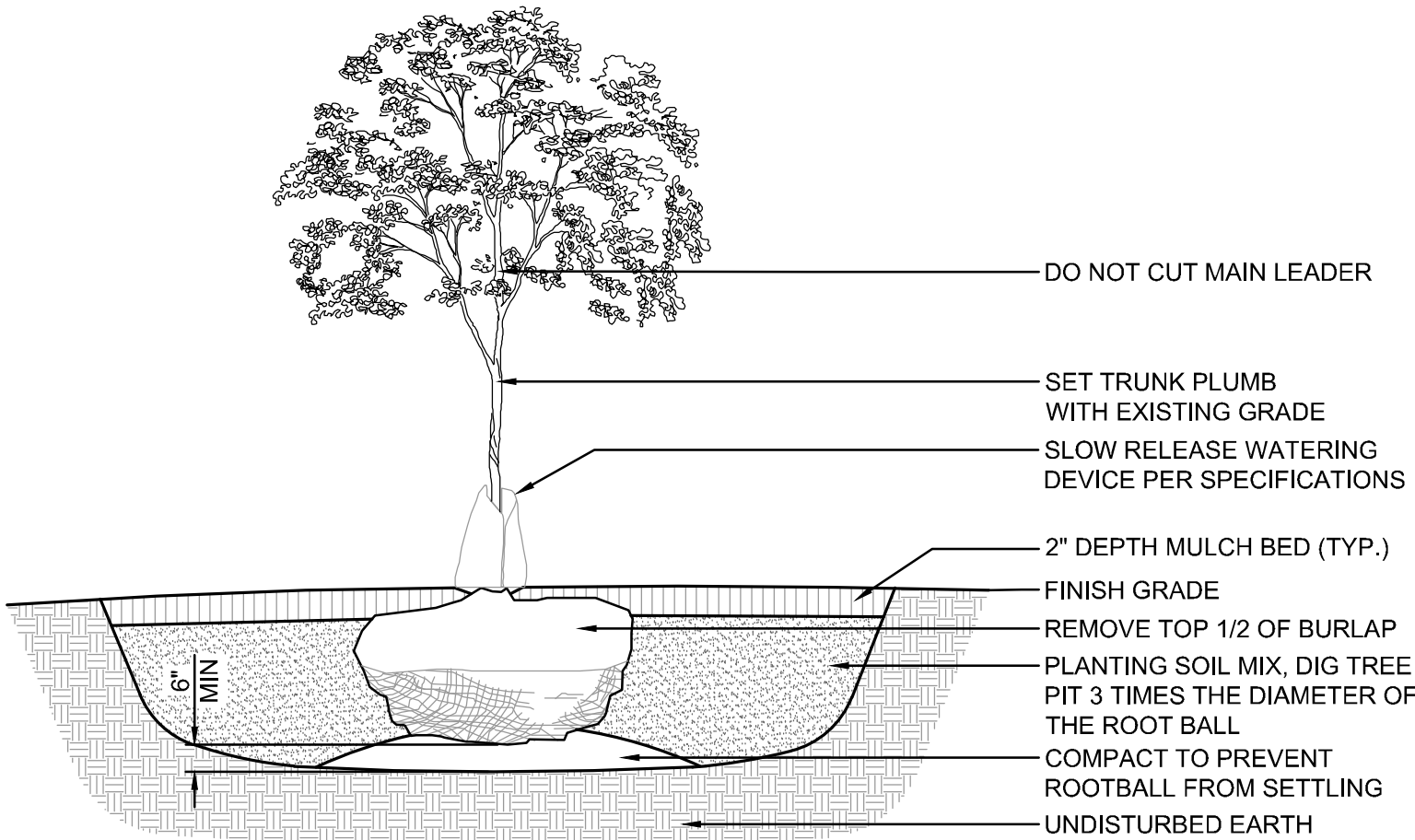
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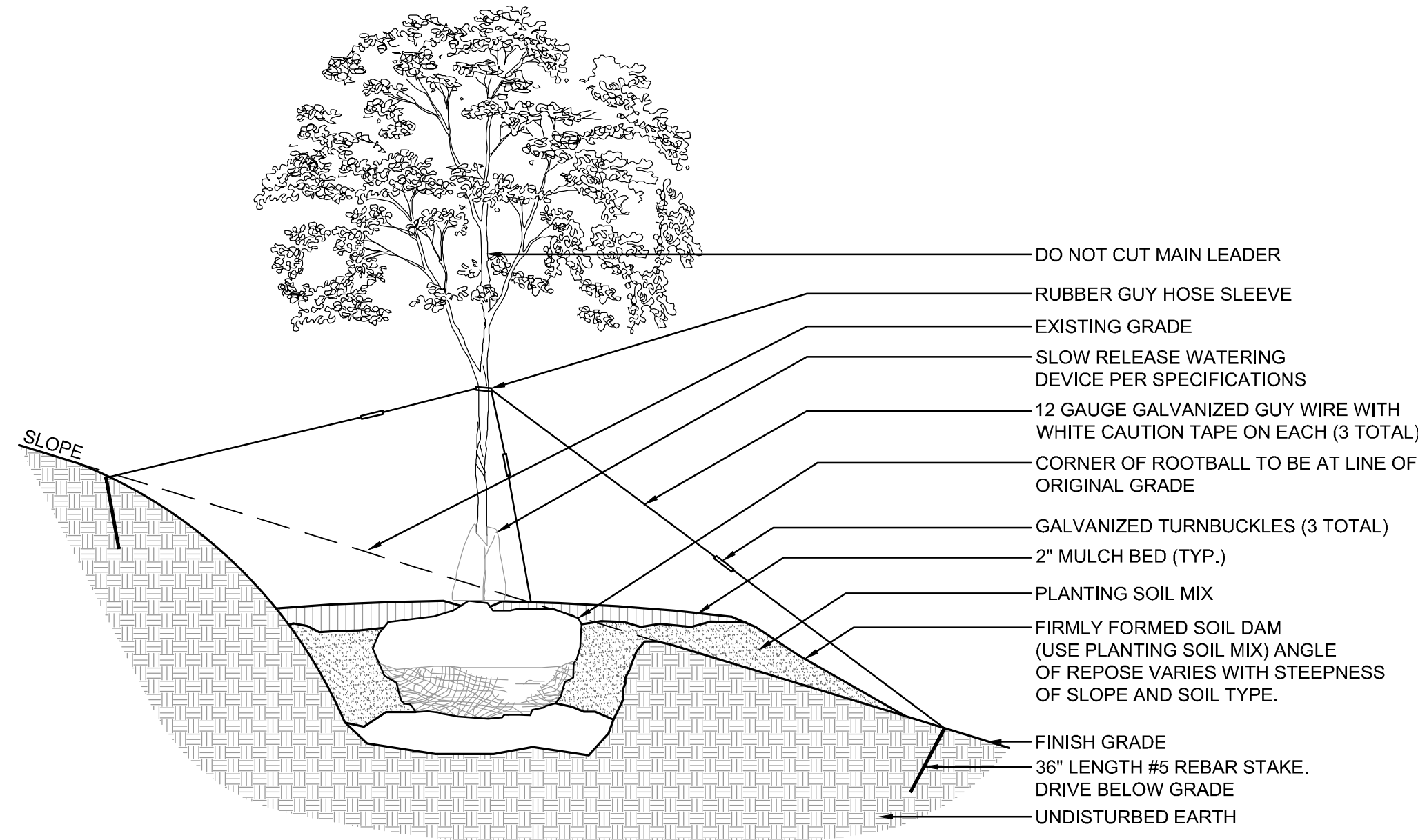


1 PLANTING BED / TREE PIT EDGING DETAIL
N.T.S.



- NOTES:
- TOP OF ROOT BALL TO BE 2"-3" ABOVE ADJACENT FINISHED GRADE.
 - REMOVE ALL LABELS, TAGS, OR OTHER FOREIGN MATERIALS FROM LIMBS.
 - THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES AND TO COMPENSATE FOR THE LOSS OF ROOTS DURING TRANSPLANTING. RETAIN NORMAL SHAPE OF TREE. OWNER'S REPRESENTATIVE WILL DETERMINE AMOUNT OF PRUNING NECESSARY. PLANT TREES AT SAME GRADE AS GROWN IN THE NURSERY.
 - DO NOT STAKE AND GUY TREES UNLESS NEEDED FOR STABILITY BASED ON SITE CONDITIONS OR A DIRECTED BY OWNER'S REPRESENTATIVE .
 - PROVIDE SLOW RELEASE WATERING DEVICE. ONE PER TREE. REFER TO SPECIFICATIONS.

2 DECIDUOUS TREE PLANTING WITH WATERING DEVICE
N.T.S.



- NOTES:
- FOR PLANTING INSTRUCTIONS SEE DECIDUOUS TREE PLANTING DETAIL, THIS SHEET.

3 DECIDUOUS TREE PLANTING ON A SLOPE WITH WATERING DEVICE
N.T.S.

ATHENS, OHIO LANDSCAPE ZONING REQUIREMENTS		
	REQUIRED	PROPOSED
SHADE TREE REQUIREMENTS (37.01.05)		
SHADE TREES (IMPERMEABLE AREAS)	FOR EVERY 1,527 SF OF IMPERMEABLE SURFACE AT LEAST 1 LARGE SHADE TREE OR 2 MEDIUM SIZED SHADE TREES SHALL BE PLANTED IN A PERMEABLE SPACE OF AT LEAST 240 SQUARE FEET WITH A MINIMUM LINEAR DIMENSION OF EIGHT FEET. SHADE TREES SHALL BE PLANTED WITHIN EIGHT FEET FROM THE ADJACENT IMPERMEABLE SURFACE EXCEPT WHERE THERE IS A BUILDING OF MORE THAN ONE STORY WHERE THE SHADE TREES SHALL BE PLANTED BETWEEN 15 FEET TO 20 FEET FROM SUCH BUILDINGS. LARGE SHADE TREES MUST BE PLANTED AT LEAST 30 FEET FROM EACH OTHER AND FROM ANY MEDIUM SIZED TREES. MEDIUM SIZED TREES MUST BE 15 FEET FROM EACH OTHER. THE SHADE TREE COMMISSION MAINTAINS LISTS OF LARGE AND MEDIUM SIZED TREES FROM WHICH THE TREES ARE TO BE SELECTED, ANY TREES NOT ON THE LIST MUST BE APPROVED FOR USE BY THE SHADE TREE COMMISSION. 171,484 SF OF IMPERMEABLE AREA = 112 LARGE SHADE TREES	-
SHADE TREES (PERMEABLE AREAS)	FOR EVERY 1,767 SF OF PERMEABLE SURFACE, EXCLUDING THAT USED IN AREA ABOVE, AT LEAST 1 LARGE SHADE TREE OR 2 MEDIUM SIZED SHADE TREES SHALL BE PLANTED. LARGE SHADE TREES MUST BE PLANTED AT LEAST 30 FEET FROM EACH OTHER AND FROM ANY MEDIUM SIZED TREES. MEDIUM SIZED TREES MUST BE 15 FEET FROM EACH OTHER. HEALTHY TREES PRESERVED DURING SITE PREPARATION MAY BE COUNTED TOWARD FULFILLING THE TREE REQUIREMENTS. 51,890 SF OF PERMEABLE AREA = 30 LARGE SHADE TREES	-
COMMERCIAL, INSTITUTIONAL, AND INDUSTRIAL LANDSCAPING (37.01.09)		
REQUIRED TREES	IN ALL BUSINESS AND MANUFACTURING DISTRICTS, EXCEPT THE DOWNTOWN BUSINESS DISTRICT, AN 8' WIDE LANDSCAPE STRIP SHALL BE REQUIRED ADJACENT TO THE STREET RIGHT-OF-WAY, EXCEPT WHERE DRIVEWAYS OR OTHER OPENINGS MAY BE REQUIRED. THIS 8' WIDE STRIP SHALL BE LANDSCAPED OPEN SPACE FREE OF ANY WALL, FENCE, EMBANKMENT AND/OR WALKWAY. AT LEAST 1 LARGE OR 2 MEDIUM DECIDUOUS TREES FOR EACH 30' SHALL BE PLANTED IN THE LANDSCAPE STRIP. UNLESS UTILITY REQUIREMENTS WILL ONLY ALLOW SMALL TREES TO BE PLANTED, 3 SMALL TREES SHALL BE PLANTED FOR EACH LARGE SHADE TREE REQUIRED. TREES PLANTED FOR THIS REQUIREMENT MAY ALSO BE USED TO MEET THE REQUIREMENTS OF SECTION 37.01.05. TO MEET THIS REQUIREMENT, THE TREES MAY BE PLACED IN THE CITY RIGHT-OF-WAY WITH THE CONSENT OF THE OFFICE OF CODE ENFORCEMENT. 522' = 17 LARGE SHADE TREES	-

PLANT SCHEDULE					
KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
LARGE DECIDUOUS TREES:					
ACE JEF	ACER x FREEMANII 'JEFFSRED'	AUTUMN BLAZE MAPLE	2" CAL. MIN.	B&B	
ACE GRE	ACER SACCHARUM 'GREEN MOUNTAIN'	GREEN MOUNTAIN SUGAR MAPLE	2" CAL. MIN.	B&B	
LIQ STY	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	2" CAL. MIN.	B&B	
LIR TUL	LIRIODENDRON TULIPIFERA	TULIP TREE	2" CAL. MIN.	B&B	
NYS SYL	NYSSA SYLVATICA	BLACK GUM	2" CAL. MIN.	B&B	
PLA OCC	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2" CAL. MIN.	B&B	
QUE BIC	QUERCUS BICOLOR	SWAMP WHITE OAK	2" CAL. MIN.	B&B	
QUE PAL	QUERCUS PALUSTRIS	PIN OAK	2" CAL. MIN.	B&B	
QUE SHU	QUERCUS SHUMARDII	SHUMARD OAK	2" CAL. MIN.	B&B	
ZEL GRE	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	2" CAL. MIN.	B&B	
MEDIUM DECIDUOUS TREES:					
ACE CAM	ACER CAMPESTRE	HEDGE MAPLE	2" CAL. MIN.	B&B	
BET HER	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	12' HT. MIN.	B&B	MULTI-STEM
CER JAP	CERCIDIPHYLLUM JAPONOCUM	KATSURA TREE	2" CAL. MIN.	B&B	
CLA KEN	CLADRASTIS KENTUKE	AMERICAN YELLOWWOOD	2" CAL. MIN.	B&B	
SAS ALB	SASSAFRAS ALBIDUM	SASSAFRAS	2" CAL. MIN.	B&B	
ULM PAR	ULMUS PARVIFOLIA	LACEBARK ELM	2" CAL. MIN.	B&B	
TURFGRASS SEED: SEE SPECIFICATIONS					



CLIENT

CONTRACTOR

STRUCTURE

FILE

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DRAWING SET

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construction

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PROJECT NUMBER

214096.000

SHEET TITLE

PLANT SCHEDULE & DETAILS

SHEET NUMBER

L1.01

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PLANTS SPECIFICATION		arch	
DEFINITIONS		CLIENT	
1. BACKFILL: THE EARTH USED TO REPLACE OR THE ACT OF REPLACING EARTH IN AN EXCAVATION.			
2. BALLED AND BURLAPPED STOCK: PLANTS DUG WITH FIRM, NATURAL BALLS OF EARTH IN WHICH THEY WERE GROWN, WITH A BALL SIZE NOT LESS THAN DIAMETER AND DEPTH RECOMMENDED BY ANSI Z60.1 FOR TYPE AND SIZE OF PLANT REQUIRED; WRAPPED WITH BURLAP, TIED, RIGIDLY SUPPORTED, AND DRUM LACED WITH TWINE WITH THE ROOT FLARE VISIBLE AT THE SURFACE OF THE BALL AS RECOMMENDED BY ANSI Z60.1.			
3. CONTAINER-GROWN STOCK: HEALTHY, VIGOROUS, WELL-ROOTED PLANTS GROWN IN A CONTAINER, WITH A WELL-ESTABLISHED ROOT SYSTEM REACHING SIDES OF CONTAINER AND MAINTAINING A FIRM BALL WHEN REMOVED FROM CONTAINER. CONTAINER SHALL BE RIGID ENOUGH TO HOLD BALL SHAPE AND PROTECT ROOT MASS DURING SHIPPING AND BE SIZED ACCORDING TO ANSI Z60.1 FOR TYPE AND SIZE OF PLANT REQUIRED.			
4. FINISH GRADE: ELEVATION OF FINISHED SURFACE OF PLANTING SOIL.			
5. PESTICIDE: A SUBSTANCE OR MIXTURE INTENDED FOR PREVENTING, DESTROYING, REPELLING, OR MITIGATING A PEST. PESTICIDES INCLUDE INSECTICIDES, MITICIDES, HERBICIDES, FUNGICIDES, RODENTICIDES, AND MOLLUSCICIDES. THEY ALSO INCLUDE SUBSTANCES OR MIXTURES INTENDED FOR USE AS A PLANT REGULATOR, DEFOLIANT, OR DESICCANT. SOME SOURCES CLASSIFY HERBICIDES SEPARATELY FROM PESTICIDES.			
6. PESTS: LIVING ORGANISMS THAT OCCUR WHERE THEY ARE NOT DESIRED OR THAT CAUSE DAMAGE TO PLANTS, ANIMALS, OR PEOPLE. PESTS INCLUDE INSECTS, MITES, GRUBS, MOLLUSKS (SNAILS AND SLUGS), RODENTS (GOPHERS, MOLES, AND MICE), UNWANTED PLANTS (WEEDS), FUNGI, BACTERIA, AND VIRUSES.			
7. PLANTING AREA: AREAS TO BE PLANTED.			
8. PLANTING SOIL: EXISTING, ON-SITE SOIL; IMPORTED SOIL; OR MANUFACTURED SOIL THAT HAS BEEN MODIFIED WITH SOIL AMENDMENTS AND PERHAPS FERTILIZERS TO PRODUCE A SOIL MIXTURE BEST FOR PLANT GROWTH.			
9. PLANT; PLANTS; PLANT MATERIAL: THESE TERMS REFER TO VEGETATION IN GENERAL, INCLUDING TREES, SHRUBS, VINES, GROUND COVERS, ORNAMENTAL GRASSES, BULBS, CORMS, TUBERS, OR HERBACEOUS VEGETATION.			
10. ROOT FLARE: ALSO CALLED "TRUNK FLARE." THE AREA AT THE BASE OF THE PLANT'S STEM OR TRUNK WHERE THE STEM OR TRUNK BROADENS TO FORM ROOTS; THE AREA OF TRANSITION BETWEEN THE ROOT SYSTEM AND THE STEM OR TRUNK.			
11. STEM GIRDLING ROOTS: ROOTS THAT ENIRCLE THE STEMS (TRUNKS) OF TREES BELOW THE SOIL SURFACE.			
12. SUBGRADE: THE SURFACE OR ELEVATION OF SUBSOIL REMAINING AFTER EXCAVATION IS COMPLETE, OR THE TOP SURFACE OF A FILL OR BACKFILL BEFORE PLANTING SOIL IS PLACED.			
COORDINATION			
COORDINATION WITH TURF AREAS (LAWNS): PLANT TREES, SHRUBS, AND OTHER PLANTS AFTER FINISH GRADES ARE ESTABLISHED AND BEFORE PLANTING TURF AREAS UNLESS OTHERWISE INDICATED.			
1. WHEN PLANTING TREES, SHRUBS, AND OTHER PLANTS AFTER PLANTING TURF AREAS, PROTECT TURF AREAS, AND PROMPTLY REPAIR DAMAGE CAUSED BY PLANTING OPERATIONS.			
PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE.			
ACTION SUBMITTALS			
PRODUCT DATA: FOR EACH TYPE OF PRODUCT.			
1. PLANT PHOTOGRAPHS: INCLUDE COLOR PHOTOGRAPHS IN DIGITAL FORMAT OF EACH REQUIRED SPECIES AND SIZE OF PLANT MATERIAL AS IT WILL BE FURNISHED TO PROJECT. TAKE PHOTOGRAPHS FROM AN ANGLE DEPICTING TRUE SIZE AND CONDITION OF THE TYPICAL PLANT TO BE FURNISHED. INCLUDE A SCALE ROD OR OTHER MEASURING DEVICE IN EACH PHOTOGRAPH. FOR SPECIES WHERE MORE THAN 20 PLANTS ARE REQUIRED, INCLUDE A MINIMUM OF THREE PHOTOGRAPHS SHOWING THE AVERAGE PLANT, THE BEST QUALITY PLANT, AND THE WORST QUALITY PLANT TO BE FURNISHED. IDENTIFY EACH PHOTOGRAPH WITH THE FULL SCIENTIFIC NAME OF THE PLANT, PLANT SIZE, AND NAME OF THE GROWING NURSERY.			
2. SAMPLES FOR VERIFICATION: FOR EACH OF THE FOLLOWING:			
a. ORGANIC MULCH: 1-QUART VOLUME OF EACH ORGANIC MULCH REQUIRED; IN SEALED PLASTIC BAGS LABELED WITH COMPOSITION OF MATERIALS BY PERCENTAGE OF WEIGHT AND SOURCE OF MULCH. EACH SAMPLE SHALL BE TYPICAL OF THE LOT OF MATERIAL TO BE FURNISHED; PROVIDE AN ACCURATE REPRESENTATION OF COLOR, TEXTURE, AND ORGANIC MAKEUP.			
b. SLOW-RELEASE, TREE-WATERING DEVICE: ONE UNIT OF EACH SIZE REQUIRED.			
INFORMATIONAL SUBMITTALS			
1. QUALIFICATION DATA: FOR LANDSCAPE INSTALLER, INCLUDE LIST OF SIMILAR PROJECTS COMPLETED BY INSTALLER DEMONSTRATING INSTALLER'S CAPABILITIES AND EXPERIENCE. INCLUDE PROJECT NAMES, ADDRESSES, AND YEAR COMPLETED, AND INCLUDE NAMES AND ADDRESSES OF OWNERS' CONTACT PERSONS.			
2. PRODUCT CERTIFICATES: FOR EACH TYPE OF MANUFACTURED PRODUCT, FROM MANUFACTURER, AND COMPLYING WITH THE FOLLOWING:			
a. MANUFACTURER'S CERTIFIED ANALYSIS OF STANDARD PRODUCTS.			
b. ANALYSIS OF OTHER MATERIALS BY A RECOGNIZED LABORATORY MADE ACCORDING TO METHODS ESTABLISHED BY THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, WHERE APPLICABLE.			
2. PESTICIDES AND HERBICIDES: PRODUCT LABEL AND MANUFACTURER'S APPLICATION INSTRUCTIONS SPECIFIC TO PROJECT.			
3. SAMPLE WARRANTY: FOR SPECIAL WARRANTY.			
CLOSEOUT SUBMITTALS			
1. MAINTENANCE DATA: RECOMMENDED PROCEDURES TO BE ESTABLISHED BY OWNER FOR MAINTENANCE OF PLANTS DURING A CALENDAR YEAR. SUBMIT BEFORE EXPIRATION OF REQUIRED MAINTENANCE PERIODS.			
QUALITY ASSURANCE			
INSTALLER QUALIFICATIONS: A QUALIFIED LANDSCAPE INSTALLER WHOSE WORK HAS RESULTED IN SUCCESSFUL ESTABLISHMENT OF PLANTS.			
1. PROFESSIONAL MEMBERSHIP: INSTALLER SHALL BE A MEMBER IN GOOD STANDING OF EITHER THE PROFESSIONAL LANDSCAPE NETWORK OR THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.			
2. EXPERIENCE: FIVE YEARS' EXPERIENCE IN LANDSCAPE INSTALLATION IN ADDITION TO REQUIREMENTS IN SECTION 014000 "QUALITY REQUIREMENTS."			
3. INSTALLER'S FIELD SUPERVISION: REQUIRE INSTALLER TO MAINTAIN AN EXPERIENCED FULL-TIME SUPERVISOR ON PROJECT SITE WHEN WORK IS IN PROGRESS.			
4. PERSONNEL CERTIFICATIONS: INSTALLER'S FIELD SUPERVISOR SHALL HAVE CERTIFICATION IN ALL OF THE FOLLOWING CATEGORIES FROM THE PROFESSIONAL LANDSCAPE NETWORK:			
a. LANDSCAPE INDUSTRY CERTIFIED TECHNICIAN - EXTERIOR.			
b. LANDSCAPE INDUSTRY CERTIFIED HORTICULTURAL TECHNICIAN.			
5. PESTICIDE APPLICATOR: STATE LICENSED, COMMERCIAL.			
PROVIDE QUALITY, SIZE, GENUS, SPECIES, AND VARIETY OF PLANTS INDICATED, COMPLYING WITH APPLICABLE REQUIREMENTS IN ANSI Z60.1.			
MEASUREMENTS: MEASURE ACCORDING TO ANSI Z60.1. DO NOT PRUNE TO OBTAIN REQUIRED SIZES.			
1. TREES AND SHRUBS: MEASURE WITH BRANCHES AND TRUNKS OR CANES IN THEIR NORMAL POSITION. TAKE HEIGHT MEASUREMENTS FROM OR NEAR THE TOP OF THE ROOT FLARE FOR FIELD-GROWN STOCK AND CONTAINER-GROWN STOCK. MEASURE MAIN BODY OF TREE OR SHRUB FOR HEIGHT AND SPREAD; DO NOT MEASURE BRANCHES OR ROOTS TIP TO TIP. TAKE CALIPER MEASUREMENTS 6 INCHES ABOVE THE ROOT FLARE FOR TREES UP TO 4-INCH CALIPER SIZE, AND 12 INCHES ABOVE THE ROOT FLARE FOR LARGER SIZES.			
2. OTHER PLANTS: MEASURE WITH STEMS, PETIOLES, AND FOLIAGE IN THEIR NORMAL POSITION.			
PLANT MATERIAL OBSERVATION: ARCHITECT MAY OBSERVE PLANT MATERIAL EITHER AT PLACE OF GROWTH OR AT SITE BEFORE PLANTING FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, CULTIVAR, SIZE, AND QUALITY. ARCHITECT MAY ALSO OBSERVE TREES AND SHRUBS FURTHER FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, PESTS, DISEASE SYMPTOMS, INJURIES, AND LATENT DEFECTS AND MAY REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. REMOVE REJECTED TREES OR SHRUBS IMMEDIATELY FROM PROJECT SITE.			
1. NOTIFY ARCHITECT OF SOURCES OF PLANTING MATERIALS SEVEN DAYS IN ADVANCE OF DELIVERY TO SITE.			
DELIVERY, STORAGE, AND HANDLING			
PACKAGED MATERIALS: DELIVER PACKAGED MATERIALS IN ORIGINAL, UNOPENED CONTAINERS SHOWING WEIGHT, CERTIFIED ANALYSIS, NAME AND ADDRESS OF MANUFACTURER, AND INDICATION OF COMPLIANCE WITH STATE AND FEDERAL LAWS IF APPLICABLE.			
BULK MATERIALS:			
1. DO NOT DUMP OR STORE BULK MATERIALS NEAR STRUCTURES, UTILITIES, WALKWAYS AND PAVEMENTS, OR ON EXISTING TURF AREAS OR PLANTS.			
2. PROVIDE EROSION-CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF BULK MATERIALS; DISCHARGE OF SOIL-BEARING WATER RUNOFF; AND AIRBORNE DUST REACHING ADJACENT PROPERTIES, WATER CONVEYANCE SYSTEMS, OR WALKWAYS.			
3. ACCOMPANY EACH DELIVERY OF BULK MATERIALS WITH APPROPRIATE CERTIFICATES.			
DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, WIND BURN, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING OF PLANTS DURING SHIPPING AND DELIVERY. DO NOT DROP PLANTS DURING DELIVERY AND HANDLING.			
HANDLE PLANTING STOCK BY ROOT BALL.			
WRAP TREES AND SHRUBS WITH BURLAP FABRIC OVER TRUNKS, BRANCHES, STEMS, TWIGS, AND FOLIAGE TO PROTECT FROM WIND AND OTHER DAMAGE DURING DIGGING, HANDLING, AND TRANSPORTATION.			
DELIVER PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED, AND INSTALL IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN SIX HOURS AFTER DELIVERY, SET PLANTS AND TREES IN THEIR APPROPRIATE ASPECT (SUN, FILTERED SUN, OR SHADE), PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.			
1. SET BALLED STOCK ON GROUND AND COVER BALL WITH SOIL, PEAT MOSS, SAWDUST, OR OTHER ACCEPTABLE MATERIAL.			
2. DO NOT REMOVE CONTAINER-GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING.			
3. WATER ROOT SYSTEMS OF PLANTS STORED ON-SITE DEEPLY AND THOROUGHLY WITH A FINE-MIST SPRAY. WATER AS OFTEN AS NECESSARY TO MAINTAIN ROOT SYSTEMS IN A MOIST, BUT NOT OVERLY WET CONDITION.			
FIELD CONDITIONS			
FIELD MEASUREMENTS: VERIFY ACTUAL GRADE ELEVATIONS, SERVICE AND UTILITY LOCATIONS, IRRIGATION SYSTEM COMPONENTS, AND DIMENSIONS OF PLANTINGS AND CONSTRUCTION CONTIGUOUS WITH NEW PLANTINGS BY FIELD MEASUREMENTS BEFORE PROCEEDING WITH PLANTING WORK.			
PLANTING RESTRICTIONS: PLANT DURING ONE OF THE FOLLOWING PERIODS. COORDINATE PLANTING PERIODS WITH MAINTENANCE PERIODS TO PROVIDE REQUIRED MAINTENANCE FROM DATE OF SUBSTANTIAL COMPLETION.			
1. SPRING PLANTING: MARCH 15 TO JUNE 1.			
2. FALL PLANTING: SEPTEMBER 1 TO NOVEMBER 1.			
WEATHER LIMITATIONS: PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT PLANTING TO BE PERFORMED WHEN BENEFICIAL AND OPTIMUM RESULTS MAY BE OBTAINED. APPLY PRODUCTS DURING FAVORABLE WEATHER CONDITIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND WARRANTY REQUIREMENTS.			
WARRANTY			
SPECIAL WARRANTY: INSTALLER AGREES TO REPAIR OR REPLACE PLANTINGS AND ACCESSORIES THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD.			
1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:			
a. DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE, LACK OF ADEQUATE MAINTENANCE, OR NEGLIGENCE BY OWNER.			
b. STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.			
c. FAULTY PERFORMANCE OF TREE STABILIZATION.			
d. DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL WEATHERING.			
2. WARRANTY PERIODS: FROM DATE OF SUBSTANTIAL COMPLETION.			
a. TREES, SHRUBS, VINES, AND ORNAMENTAL GRASSES: 12 MONTHS.			
b. GROUND COVERS, BIENNIALS, PERENNIALS, AND OTHER PLANTS: 12 MONTHS.			
c. ANNUALS: THREE MONTHS.			
3. INCLUDE THE FOLLOWING REMEDIAL ACTIONS AS A MINIMUM:			
a. IMMEDIATELY REMOVE DEAD PLANTS AND REPLACE UNLESS REQUIRED TO PLANT IN THE SUCCEEDING PLANTING SEASON.			
b. REPLACE PLANTS THAT ARE MORE THAN 25 PERCENT DEAD OR IN AN UNHEALTHY CONDITION AT END OF WARRANTY PERIOD.			
c. A LIMIT OF ONE REPLACEMENT OF EACH PLANT IS REQUIRED EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO FAILURE TO COMPLY WITH REQUIREMENTS.			
d. PROVIDE EXTENDED WARRANTY FOR PERIOD EQUAL TO ORIGINAL WARRANTY PERIOD, FOR REPLACED PLANT MATERIAL.			
PLANT MATERIAL			
GENERAL: FURNISH NURSERY-GROWN PLANTS TRUE TO GENUS, SPECIES, VARIETY, CULTIVAR, STEM FORM, SHEARING, AND OTHER FEATURES INDICATED IN PLANT LIST, PLANT SCHEDULE, OR PLANT LEGEND INDICATED ON DRAWINGS AND COMPLYING WITH ANSI Z60.1; AND WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK, DENSELY FOLIATED WHEN IN LEAF AND FREE OF DISEASE, PESTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT.			
1. TREES WITH DAMAGED, CROOKED, OR MULTIPLE LEADERS; TIGHT VERTICAL BRANCHES WHERE BARK IS SQUEEZED BETWEEN TWO BRANCHES OR BETWEEN BRANCH AND TRUNK ("INCLUDED BARK"); CROSSING TRUNKS; CUT-OFF LIMBS MORE THAN 3/4 INCH IN DIAMETER; OR WITH STEM GIRDLING ROOTS ARE UNACCEPTABLE.			
2. COLLECTED STOCK: DO NOT USE PLANTS HARVESTED FROM THE WILD, FROM NATIVE STANDS, FROM AN ESTABLISHED LANDSCAPE PLANTING, OR NOT GROWN IN A NURSERY UNLESS OTHERWISE INDICATED.			
PROVIDE PLANTS OF SIZES, GRADES, AND BALL OR CONTAINER SIZES COMPLYING WITH ANSI Z60.1 FOR TYPES AND FORM OF PLANTS REQUIRED. PLANTS OF A LARGER SIZE MAY BE USED IF ACCEPTABLE TO ARCHITECT, WITH A PROPORTIONATE INCREASE IN SIZE OF ROOTS OR BALLS.			
ROOT-BALL DEPTH: FURNISH TREES AND SHRUBS WITH ROOT BALLS MEASURED FROM TOP OF ROOT BALL, WHICH BEGINS AT ROOT FLARE ACCORDING TO ANSI Z60.1. ROOT FLARE SHALL BE VISIBLE BEFORE PLANTING.			
LABELING: LABEL EACH PLANT OF EACH VARIETY, SIZE, AND CALIPER WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF COMMON NAME AND FULL SCIENTIFIC NAME, INCLUDING GENUS AND SPECIES. INCLUDE NOMENCLATURE FOR HYBRID, VARIETY, OR CULTIVAR, IF APPLICABLE TO THE PLANT.			
IF FORMAL ARRANGEMENTS OR CONSECUTIVE ORDER OF PLANTS IS INDICATED ON DRAWINGS, SELECT STOCK FOR UNIFORM HEIGHT AND SPREAD, AND NUMBER THE LABELS TO ASSURE SYMMETRY IN PLANTING.			
FERTILIZERS: REFER TO PLANTING SOIL SPECIFICATION.			
MULCHES			
ORGANIC MULCH: FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS, CONSISTING OF ONE OF THE FOLLOWING:			
1. TYPE: DOUBLE-SHREDDED HARDWOOD.			
2. SIZE RANGE: 3 INCHES MAXIMUM, 1/2 INCH MINIMUM.			
3. COLOR: NATURAL.			
PESTICIDES			
GENERAL: PESTICIDE REGISTERED AND APPROVED BY THE EPA, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND OF TYPE RECOMMENDED BY MANUFACTURER FOR EACH SPECIFIC PROBLEM AND AS REQUIRED FOR PROJECT CONDITIONS AND APPLICATION. DO NOT USE RESTRICTED PESTICIDES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION.			
PRE-EMERGENT HERBICIDE (SELECTIVE AND NONSELECTIVE): EFFECTIVE FOR CONTROLLING THE GERMINATION OR GROWTH OF WEEDS WITHIN PLANTED AREAS AT THE SOIL LEVEL DIRECTLY BELOW THE MULCH LAYER.			
POST-EMERGENT HERBICIDE (SELECTIVE AND NONSELECTIVE): EFFECTIVE FOR CONTROLLING WEED GROWTH THAT HAS ALREADY GERMINATED.			
TREE-STABILIZATION MATERIALS			
TRUNK-STABILIZATION MATERIALS:			
1. UPRIGHT AND GUY STAKES: ROUGH-SAWN, SOUND, NEW HARDWOOD, FREE OF KNOTS, HOLES, CROSS GRAIN, AND OTHER DEFECTS, 2-BY-2-INCH NOMINAL BY LENGTH INDICATED, POINTED AT ONE END.			
2. FLEXIBLE TIES: WIDE RUBBER OR ELASTIC BANDS OR STRAPS OF LENGTH REQUIRED TO REACH STAKES OR TURNBUCKLES.			
3. GUYS AND TIE WIRES: ASTM A 641/A 641M, CLASS 1, GALVANIZED-STEEL WIRE, TWO-STRAND, TWISTED, 0.106 INCH IN DIAMETER.			
4. TREE-TIE WEBBING: UV-RESISTANT POLYPROPYLENE OR NYLON WEBBING WITH BRASS GROMMETS.			
5. GUY CABLES: FIVE-STRAND, 3/16-INCH-DIAMETER, GALVANIZED-STEEL CABLE, WITH ZINC-COATED TURNBUCKLES, A MINIMUM OF 3 INCHES LONG, WITH TWO 3/8-INCH GALVANIZED EYEBOLTS.			
6. FLAGS: STANDARD SURVEYOR'S PLASTIC FLAGGING TAPE, WHITE, 6 INCHES LONG.			
SLOW-RELEASE WATERING DEVICE: STANDARD PRODUCT MANUFACTURED FOR DRIP IRRIGATION OF PLANTS AND EMPTYING ITS WATER CONTENTS OVER AN EXTENDED TIME PERIOD; MANUFACTURED FROM UV-LIGHT-STABILIZED NYLON-REINFORCED POLYETHYLENE SHEET, PVC, OR HDPE PLASTIC.			
1. PRODUCT: TREEGATOR ORIGINAL SLOW RELEASE WATERING BAG			
a. COLOR: GREEN.			
MISCELLANEOUS PRODUCTS			
BURLAP: NON-SYNTHETIC, BIODEGRADABLE.			
EXAMINATION			
EXAMINE AREAS TO RECEIVE PLANTS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS AND CONDITIONS AFFECTING INSTALLATION AND PERFORMANCE OF THE WORK.			
1. VERIFY THAT NO FOREIGN OR DELETERIOUS MATERIAL OR LIQUID SUCH AS PAINT, PAINT WASHOUT, CONCRETE SLURRY, CONCRETE LAYERS OR CHUNKS, CEMENT, PLASTER, OILS, GASOLINE, DIESEL FUEL, PAINT THINNER, TURPENTINE, TAR, ROOFING COMPOUND, OR ACID HAS BEEN DEPOSITED IN SOIL WITHIN A PLANTING AREA.			
2. VERIFY THAT PLANTS AND VEHICLES LOADED WITH PLANTS CAN TRAVEL TO PLANTING LOCATIONS WITH ADEQUATE OVERHEAD CLEARANCE.			
3. SUSPEND PLANTING OPERATIONS DURING PERIODS OF EXCESSIVE SOIL MOISTURE UNTIL THE MOISTURE CONTENT REACHES ACCEPTABLE LEVELS TO ATTAIN THE REQUIRED RESULTS.			
4. UNIFORMLY MOISTEN EXCESSIVELY DRY SOIL THAT IS NOT WORKABLE OR WHICH IS DUSTY.			
IF CONTAMINATION BY FOREIGN OR DELETERIOUS MATERIAL OR LIQUID IS PRESENT IN SOIL WITHIN A PLANTING AREA, REMOVE THE SOIL AND CONTAMINATION AS DIRECTED BY ARCHITECT AND REPLACE WITH NEW PLANTING SOIL.			
PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.			
PREPARATION			
PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES AND TURF AREAS AND EXISTING PLANTS FROM DAMAGE CAUSED BY PLANTING OPERATIONS.			
INSTALL EROSION-CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF SOILS AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS.			
PLANTING AREA ESTABLISHMENT			
GENERAL: PREPARE PLANTING AREA FOR SOIL PLACEMENT AND MIX PLANTING SOIL ACCORDING TO PLANTING SOIL SPECIFICATIONS.			
PLACING PLANTING SOIL: PLACE AND MIX PLANTING SOIL ACCORDING TO PLANTING SOIL SPECIFICATION			
BEFORE PLANTING, OBTAIN ARCHITECT'S ACCEPTANCE OF FINISH GRADING; RESTORE PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.			
EXCAVATION FOR TREES AND SHRUBS			
PLANTING PITS AND TRENCHES: EXCAVATE CIRCULAR PLANTING PITS.			
1. EXCAVATE PLANTING PITS WITH SIDES SLOPING INWARD AT A 45-DEGREE ANGLE. EXCAVATIONS WITH VERTICAL SIDES ARE UNACCEPTABLE. TRIM PERIMETER OF BOTTOM LEAVING CENTER AREA OF BOTTOM RAISED SLIGHTLY TO SUPPORT ROOT BALL AND ASSIST IN DRAINAGE AWAY FROM CENTER. DO NOT FURTHER DISTURB BASE. ENSURE THAT ROOT BALL WILL SIT ON UNDISTURBED BASE SOIL TO PREVENT SETTLING. SCARIFY SIDES OF PLANTING PIT SMEARED OR SMOOTHED DURING EXCAVATION.			
2. EXCAVATE APPROXIMATELY THREE TIMES AS WIDE AS BALL DIAMETER FOR BALLED AND BURLAPPED AND CONTAINER-GROWN STOCK.			
3. DO NOT EXCAVATE DEEPER THAN DEPTH OF THE ROOT BALL, MEASURED FROM THE ROOT FLARE TO THE BOTTOM OF THE ROOT BALL.			
4. IF AREA UNDER THE PLANT WAS INITIALLY DUG TOO DEEP, ADD SOIL TO RAISE IT TO THE CORRECT LEVEL AND THOROUGHLY TAMP THE ADDED SOIL TO PREVENT SETTLING.			
5. MAINTAIN ANGLES OF REPOSE OF ADJACENT MATERIALS TO ENSURE STABILITY. DO NOT EXCAVATE SUBGRADES OF ADJACENT PAVING, STRUCTURES, HARDCAPES, OR OTHER NEW OR EXISTING IMPROVEMENTS.			
6. MAINTAIN SUPERVISION OF EXCAVATIONS DURING WORKING HOURS.			
7. KEEP EXCAVATIONS COVERED OR OTHERWISE PROTECTED WHEN UNATTENDED BY INSTALLER'S PERSONNEL.			
BACKFILL SOIL: SUBSOIL AND TOPSOIL REMOVED FROM EXCAVATIONS MAY NOT BE USED AS BACKFILL SOIL UNLESS OTHERWISE INDICATED.			
OBSTRUCTIONS: NOTIFY ARCHITECT IF UNEXPECTED ROCK OR OBSTRUCTIONS DETRIMENTAL TO TREES OR SHRUBS ARE ENCOUNTERED IN EXCAVATIONS.			
1. HARDPAN LAYER: DRILL 6-INCH-DIAMETER HOLES, 24 INCHES APART, INTO FREE-DRAINING STRATA OR TO A DEPTH OF 10 FEET, WHICHEVER IS LESS, AND BACKFILL WITH FREE-DRAINING MATERIAL.			
DRAINAGE: NOTIFY ARCHITECT IF SUBSOIL CONDITIONS EVIDENCE UNEXPECTED WATER SEEPAGE OR RETENTION IN TREE OR SHRUB PLANTING PITS.			
TREE, SHRUB, AND VINE PLANTING			
INSPECTION: AT TIME OF PLANTING, VERIFY THAT ROOT FLARE IS VISIBLE AT TOP OF ROOT BALL ACCORDING TO ANSI Z60.1. IF ROOT FLARE IS NOT VISIBLE, REMOVE SOIL IN A LEVEL MANNER FROM THE ROOT BALL TO WHERE THE TOP-MOST ROOT EMERGES FROM THE TRUNK. AFTER SOIL REMOVAL TO EXPOSE THE ROOT FLARE, VERIFY THAT ROOT BALL STILL MEETS SIZE REQUIREMENTS.			
REMOVE STEM GIRDLING ROOTS AND KINKED ROOTS. REMOVE INJURED ROOTS BY CUTTING CLEANLY; DO NOT BREAK.			
BALLED AND BURLAPPED STOCK: SET EACH PLANT PLUMB AND IN CENTER OF PLANTING PIT OR TRENCH WITH ROOT FLARE 1 INCH ABOVE ADJACENT FINISH GRADES.			
1. BACKFILL: PLANTING SOIL PER PLANTING SOILS SPECIFICATION.			
2. AFTER PLACING SOME BACKFILL AROUND ROOT BALL TO STABILIZE PLANT, CAREFULLY CUT AND REMOVE BURLAP, ROPE, AND WIRE BASKETS FROM TOPS OF ROOT BALLS AND FROM SIDES, BUT DO NOT REMOVE FROM UNDER ROOT BALLS. REMOVE PALLETES, IF ANY, BEFORE SETTING. DO NOT USE PLANTING STOCK IF ROOT BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATION.			
3. BACKFILL AROUND ROOT BALL IN LAYERS, TAMPING TO SETTLE SOIL AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PLANTING PIT IS APPROXIMATELY ONE-HALF FILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE WATER IS ABSORBED.			
4. CONTINUE BACKFILLING PROCESS. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF SOIL.			
CONTAINER-GROWN STOCK: SET EACH PLANT PLUMB AND IN CENTER OF PLANTING PIT OR TRENCH WITH ROOT FLARE 1 INCH ABOVE ADJACENT FINISH GRADES.			
1. BACKFILL: PLANTING SOIL PER PLANTING SOILS SPECIFICATION.			
2. CAREFULLY REMOVE ROOT BALL FROM CONTAINER WITHOUT DAMAGING ROOT BALL OR PLANT.			
3. BACKFILL AROUND ROOT BALL IN LAYERS, TAMPING TO SETTLE SOIL AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PLANTING PIT IS APPROXIMATELY ONE-HALF FILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE WATER IS ABSORBED.			
4. CONTINUE BACKFILLING PROCESS. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF SOIL.			
MECHANIZED TREE-SPADE PLANTING			
1. TREES MAY BE PLANTED WITH AN APPROVED MECHANIZED TREE SPADE AT THE DESIGNATED LOCATIONS. DO NOT USE TREE SPADE TO MOVE TREES LARGER THAN THE MAXIMUM SIZE ALLOWED FOR A SIMILAR FIELD-GROWN, BALLED-AND-BURLAPPED ROOT-BALL DIAMETER ACCORDING TO ANSI Z60.1, OR LARGER THAN MANUFACTURER'S MAXIMUM SIZE RECOMMENDATION FOR THE TREE SPADE BEING USED, WHICHEVER IS SMALLER.			
2. USE THE SAME TREE SPADE TO EXCAVATE THE PLANTING HOLE AS WILL BE USED TO EXTRACT AND TRANSPORT THE TREE.			
3. WHEN EXTRACTING THE TREE, CENTER THE TRUNK WITHIN THE TREE SPADE AND MOVE TREE WITH A SOLID BALL OF EARTH.			
4. CUT EXPOSED ROOTS CLEANLY DURING TRANSPLANTING OPERATIONS.			
5. PLANT TREES FOLLOWING PROCEDURES IN "TREE, SHRUB, AND VINE PLANTING" ARTICLE.			
6. WHERE POSSIBLE, ORIENT THE TREE IN THE SAME DIRECTION AS IN ITS ORIGINAL LOCATION.			
TREE, SHRUB, AND VINE PRUNING			
1. REMOVE ONLY DEAD, DYING, OR BROKEN BRANCHES. DO NOT PRUNE FOR SHAPE.			
2. DO NOT APPLY PRUNING PAINT TO WOUNDS.			
TREE STABILIZATION			
TRUNK STABILIZATION BY STAKING AND GUYING: INSTALL TRUNK STABILIZATION AS FOLLOWS UNLESS OTHERWISE INDICATED ON DRAWINGS. STAKE AND GUY TREES MORE THAN 12 FEET IN HEIGHT AND MORE THAN 3 INCHES IN CALIPER UNLESS OTHERWISE INDICATED.			
1. SITE-FABRICATED, STAKING-AND-GUYING METHOD: INSTALL NO FEWER THAN THREE GUYS SPACED EQUALLY AROUND TREE.			
a. SECURELY ATTACH GUYS TO STAKES 36 INCHES LONG, DRIVEN TO GRADE, ADJUST SPACING TO AVOID PENETRATING ROOT BALLS OR ROOT MASSES. PROVIDE TURNBUCKLE FOR EACH GUY WIRE AND TIGHTEN SECURELY.			
b. SUPPORT TREES WITH BANDS OF FLEXIBLE TIES AT CONTACT POINTS WITH TREE TRUNK AND REACHING TO TURNBUCKLE. ALLOW ENOUGH SLACK TO AVOID RIGID RESTRAINT OF TREE.			
c. SUPPORT TREES WITH GUY CABLE OR MULTIPLE STRANDS OF THE WIRE, CONNECTED TO THE BRASS GROMMETS OF TURNBUCKLE AT CONTACT POINTS WITH TREE TRUNK AND REACHING TO TURNBUCKLE. ALLOW ENOUGH SLACK TO AVOID RIGID RESTRAINT OF TREE.			
d. ATTACH FLAGS TO EACH GUY WIRE, 30 INCHES ABOVE FINISH GRADE.			
GROUND COVER AND PLANT PLANTING			
1. SET OUT AND SPACE GROUND COVER AND PLANTS OTHER THAN TREES, SHRUBS, AND VINES AS INDICATED ON DRAWINGS IN EVEN ROWS WITH TRIANGULAR SPACING.			
2. USE PLANTING SOIL PER PLANTING SOIL SPECIFICATION FOR BACKFILL.			
3. DIG HOLES LARGE ENOUGH TO ALLOW SPREADING OF ROOTS.			
4. FOR ROOTED CUTTING PLANTS SUPPLIED IN FLATS, PLANT EACH IN A MANNER THAT MINIMALLY DISTURBS THE ROOT SYSTEM BUT TO A DEPTH NOT LESS THAN TWO NODES.			
5. WORK SOIL AROUND ROOTS TO ELIMINATE AIR POCKETS AND LEAVE A SLIGHT SAUCER INDENTATION AROUND PLANTS TO HOLD WATER.			
6. WATER THOROUGHLY AFTER PLANTING, TAKING CARE NOT TO COVER PLANT CROWNS WITH WET SOIL.			
7. PROTECT PLANTS FROM HOT SUN AND WIND; REMOVE PROTECTION IF PLANTS SHOW EVIDENCE OF RECOVERY FROM TRANSPLANTING SHOCK.			
PLANTING AREA MULCHING			
MULCH BACKFILLED SURFACES OF PLANTING AREAS AND OTHER AREAS INDICATED.			
1. TREES IN TURF AREAS: APPLY [ORGANIC] [AGGREGATE] MULCH RING OF 2-INCH AVERAGE THICKNESS, WITH 18-INCH RADIUS AROUND TRUNKS OR STEMS. DO NOT PLACE MULCH WITHIN 3 INCHES OF TRUNKS OR STEMS.			
2. ORGANIC MULCH IN PLANTING AREAS: APPLY 2-INCH AVERAGE THICKNESS OF ORGANIC MULCH OVER WHOLE SURFACE OF PLANTING AREA, AND FINISH LEVEL WITH ADJACENT FINISH GRADES. DO NOT PLACE MULCH WITHIN 3 INCHES OF TRUNKS OR STEMS.			
EDGING INSTALLATION			
SHOVEL-CUT EDGING: SEPARATE MULCHED AREAS FROM TURF AREAS, CURBS, AND PAVING WITH A 45-DEGREE, 4- TO 6-INCH-DEEP, SHOVEL-CUT EDGE.			
INSTALLING SLOW-RELEASE WATERING DEVICE			
1. PROVIDE ONE DEVICE FOR EACH TREE.			
2. PLACE DEVICE ON TOP OF THE MULCH AT BASE OF TREE STEM AND FILL WITH WATER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.			
PLANT MAINTENANCE			
1. MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, MULCHING, RESTORING PLANTING SAUCERS, ADJUSTING AND REPAIRING TREE-STABILIZATION DEVICES, RESETTling TO PROPER GRADES OR VERTICAL POSITION, AND PERFORMING OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS.			
2. FILL IN, AS NECESSARY, SOIL SUBSIDENCE THAT MAY OCCUR BECAUSE OF SETTLING OR OTHER PROCESSES. REPLACE MULCH MATERIALS DAMAGED OR LOST IN AREAS OF SUBSIDENCE.			
3. APPLY TREATMENTS AS REQUIRED TO KEEP PLANT MATERIALS, PLANTED AREAS, AND SOILS FREE OF PESTS AND PATHOGENS OR DISEASE. USE INTEGRATED PEST MANAGEMENT PRACTICES WHEN POSSIBLE TO MINIMIZE USE OF PESTICIDES AND REDUCE HAZARDS. TREATMENTS INCLUDE PHYSICAL CONTROLS SUCH AS HOSEING OFF FOLIAGE, MECHANICAL CONTROLS SUCH AS TRAPS, AND BIOLOGICAL CONTROL AGENTS.			
PESTICIDE APPLICATION			
1. APPLY PESTICIDES AND OTHER CHEMICAL PRODUCTS AND BIOLOGICAL CONTROL AGENTS ACCORDING TO AUTHORITIES HAVING JURISDICTION AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. COORDINATE APPLICATIONS WITH OWNER'S OPERATIONS AND OTHERS IN PROXIMITY TO THE WORK. NOTIFY OWNER BEFORE EACH APPLICATION IS PERFORMED.			
2. PRE-EMERGENT HERBICIDES (SELECTIVE AND NONSELECTIVE): APPLY TO TREE, SHRUB, AND GROUND-COVER AREAS ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS. DO NOT APPLY TO SEEDED AREAS.			
3. POST-EMERGENT HERBICIDES (SELECTIVE AND NONSELECTIVE): APPLY ONLY AS NECESSARY TO TREAT ALREADY-GERMINATED WEEDS AND ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.			
REPAIR AND REPLACEMENT			

Memorandum – Hugh White Honda – Stormwater Design Intent

Project #
241096.000

TO: City of Athens
CC:
FROM: Brendan Fleming
DATE: June 12, 2025
RE: Hugh White Honda – Stormwater Design Intent

This memorandum describes the site civil engineering design intent for the new Hugh White Honda development near 250 Columbus Rd, Athens, OH 45701

Site Description

The project will consist of a new autobody building located near the existing Hugh White Honda dealership on the vacant portion of the site. Construction will involve stormwater management improvements that include a wet detention basin and stormwater conveyance. Additionally, associate parking, drives, and utility services will also be included in this project. The majority of the site flows offsite to the west but a portion of the site flows east to the right of way into existing storm infrastructure located along Columbus Road. All soils analyzed on and offsite are in the Hydrologic Soil Group B.

Hydrologic Methodologies and Water Quality

Flows in the post-developed condition will not exceed flows in the pre-developed condition on a one-to-one basis in regard to the year storm. A portion of the proposed site will go undetained but the wet detention basin will be oversized to account for the bypass area.

Pursuant to the Ohio Environmental Protection Agency (OEPA) General Permit No.: OHC000006, the project is required to provide water quality treatment due to the proposed disturbance being greater than one (1) acre. The permit requires projects to capture and treat stormwater for a storm event of 0.90 inches. The total water quality volume that is required to be treated is 0.24 ac-ft. Water quality capture and treatment for this development will occur in the wet detention basin. The water quality elevation in the system is 644.00 and the provided water quality treatment volume is 0.35 ac-ft.

Stormwater Management Plan

Stormwater runoff generated from the development will be conveyed to a wet detention basin located in the northwestern portion of the site. The proposed outlet structure will be located on the western side of the detention basin. A 3" orifice (invert elevation = 644.00) will be cut into a wall located in the catch basin to control the water quality drawdown required by the OPEA. A 24" W x 6" H window (invert elevation = 647.25) and a 10' spillway (elevation = 648.00) will control all flows out of the basin. All flows controlled by these devices will be conveyed through a 12" culvert leaving the catch basin that will outlet to the west offsite. Please refer to the summary table below for the wet detention basin.

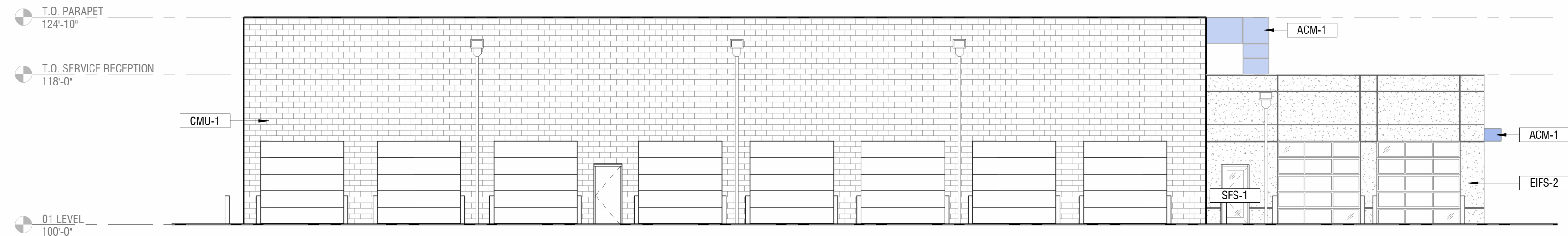
	Peak Water Surface Elevation (ft)	Detention Storage Volume (acft)	Peak Flow (cfs)
1-yr	646.30	0.509	0.35
2-yr	646.86	0.663	0.39
5-yr	647.44	0.834	0.95
10-yr	647.68	0.911	2.28
25-yr	648.07	1.038	4.51
50-yr	648.28	1.109	8.66
100-yr	648.46	1.173	14.48

Results Summary

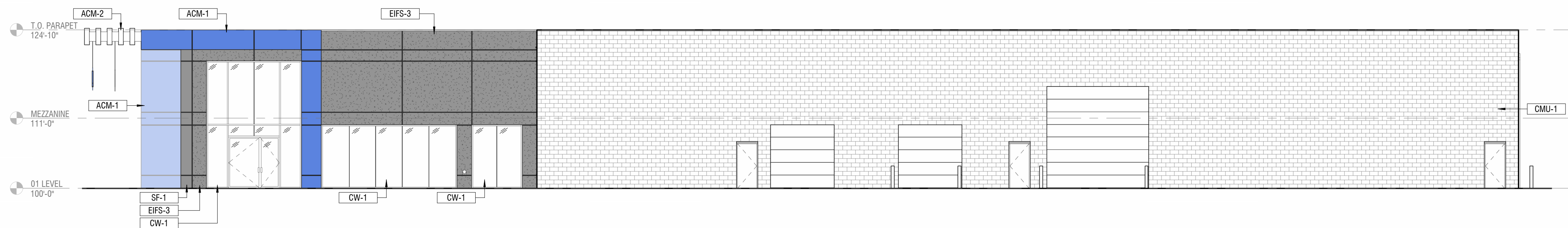
The post-development flows must not exceed the pre-development flows on a one-to-one basis. The summary table below shows the existing and proposed flows for the site:

Storm Event	Pre-Development Peak Flow (cfs)	Post-Development Peak Flow (cfs)
1-yr	3.14	1.26
2-yr	4.69	1.54
5-yr	7.21	1.92
10-yr	9.46	2.46
25-yr	12.83	4.86
50-yr	15.75	9.33
100-yr	18.89	15.58

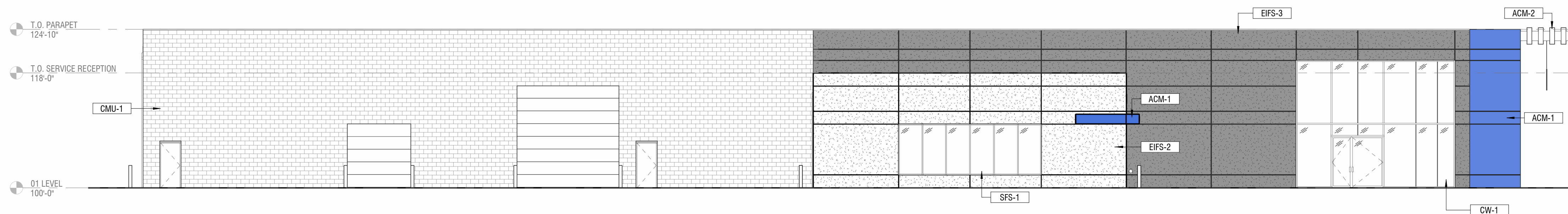
A more detailed stormwater management report will be provided with the final site improvement plans.



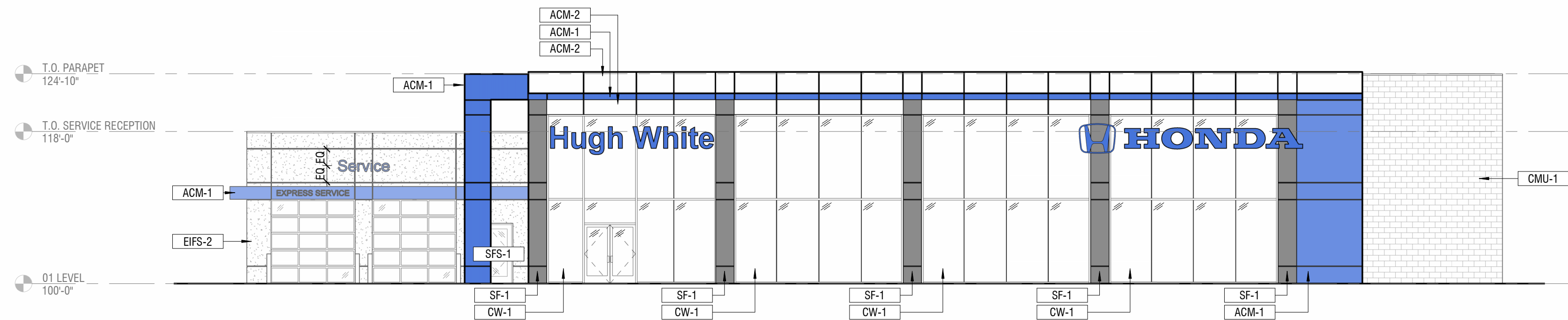
WEST
BUILDING ELEVATION
SCALE 3/32" = 1'-0"



NORTH
3 BUILDING ELEVATION
SCALE 3/32" = 1'-0"



2 SOUTH
BUILDING ELEVATION
SCALE 3/32" = 1'-0"



EAST
1 BUILDING ELEVATION
SCALE 3/32" = 1'-0"

GENERAL NOTES

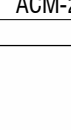
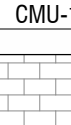
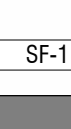
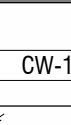
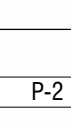
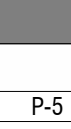
BUILDING ELEVATIONS

- PROVIDE EXPANSION JOINTS IN FINISH MATERIALS. SHOP DRAWINGS TO BE PROVIDED FOR APPROVAL, INDICATING EXPANSION JOINTS / CONTROL JOINT LOCATIONS.
- BUILDING MOUNTED EQUIPMENT IS SHOWN FOR REFERENCE ONLY. PROVIDE MEP / DETAIL DRAWINGS FOR SPECIFICATIONS, TYPE EQUIPMENT / FIXTURES TO BE THE COLOR OF THE ADJACENT EXTERIOR FINISH U.N.O.
- REFER TO DOOR (A6.00) AND GLAZING (A6.10) SCHEDULES FOR SPECIFICATIONS.
- EXTERIOR SIGNAGE IS BY OWNER AND TO BE COORDINATED w/ OWNERS SIGN VENDOR. THE EXTERIOR SIGNAGE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL REQUIRED SIGN PERMITS
- LOCATE AND PROVIDE FRT BLOCKING FOR ALL BUILDING SIGNAGE
- ALL WALL-MOUNT EXHAUST FANS / LOUVERS / ETC. TO HAVE A COLOR TO MATCH ADJACENT FINISH, SUBJECT TO FINAL APPROVAL. REFER TO MECHANICAL DRAWINGS FOR FINIAL LOCATIONS AND ADDITIONAL INFORMATION, TYP.
- PRODUCTS LISTED BELOW FORM THE BASIS OF DESIGN. PRODUCTS AND MATERIALS, SPECIFICATIONS, MATERIALS, PERFORMANCE CHARACTERISTICS, TEXTURES, COLORS CAN BE SUBMITTED TO THE ARCHITECT TO REVIEW, UNLESS NOTED OTHERWISE.

GENERAL NOTES	BUILDING ELEVATION
XX-# EXTERIOR FINISH TAG 101 DOOR TAG	

MATERIAL LEGEND BUILDING ELEVATIONS

- REFER TO SHEET AX.XX FOR EXTERIOR FINISH ASSEMBLY SPECS

ACM-1 	ALUMINUM COMPOSITE METAL PANEL MANUFACTURER: APOLIC PRODUCT: DRY JOINT SYSTEM COLOR: HNB BLUE 4-HNB-50 LRV 16.78
ACM-2 	ALUMINUM COMPOSITE METAL PANEL MANUFACTURER: APOLIC PRODUCT: DRY JOINT SYSTEM COLOR: HWH WHITE 4-HWH-50 LRV 80.8
CMU-1 	MASONRY - CMU STYLE: SMOOTH FACE COLOR: PAINTED P-2
EIFS-2 	EXTERIOR INSULATED FINISH SYSTEM MANUFACTURER: DRYVIT FINISH: HDP FINESSE COLOR: CUSTOM SUPER WHITE OVER FINESSE
EIFS-3 	EXTERIOR INSULATED FINISH SYSTEM MANUFACTURER: DRYVIT FINISH: HDP FINESSE COLOR: BM HC-169ST COVENTRY GRAY
SF-1 	NATURA LARGE FORMAT PANELS MANUFACTURER: EQUITONE COLOR: N 281 REFER TO FINISH SCHEDULE FOR APPLICATION INFO
CW-1 	CURTAIN WALL MANUFACTURER: KAWNEER FINISH: BLACK ANODIZED REFER TO GLAZING ELEVATIONS
SFS-1 	STOREFRONT MANUFACTURER: KAWNEER FINISH: BLACK ANODIZED REFER TO GLAZING ELEVATIONS
P-2 	EXTERIOR PAINT MANUFACTURER: BENJAMIN MOORE PRODUCT: AURA EXTERIOR ACRYLIC LATEX PAINT COLOR: HC-169 COVENTRY GRAY FINISH: EGGSHELL
P-5 	EXTERIOR PAINT MANUFACTURER: BENJAMIN MOORE PRODUCT: AURA EXTERIOR ACRYLIC LATEX PAINT COLOR: 2125-10 MIDNIGHT DREAM FINISH: EGGSHELL

[illegible]



APPLICATION for TITLE 41 / P.U.D.

☒ Title 41 ☐ P.U.D.
CITY OF ATHENS, OHIO
ATHENS CITY CODE TITLE 41/21

(For Office Use Only)

Permit # _____

Date Rec'd _____

Applicant Sarah Slivnick / Dustin Todd - Archall Architects Phone (614) 469-7500
 Address 49 E. Third Avenue, Columbus, OH
 Property Owner (if other than applicant) Billy Thagard Phone (740) 652-2201
 Address 250 Columbus Road, Athens, OH
 E-mail (Optional): wthagard@whitecars.com

PROJECT INFO

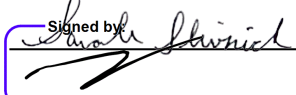
Project Name: Hugh White Honda
 Project Address/Location: 250 Columbus Road, Athens, OH 45701
 Current Property Use: Auto Dealership Proposed Property Use: Auto Dealership
 Number of Proposed Buildings: 1 Proposed Square Footage: 24215
 Estimated Cost of Project: _____

Other Items Required (if applicable):

☒ .pdf file _____ ☐ Building Elevations (7 copies) _____ ☐ Wellhead (if required) _____
☒ Site Plan (7 copies) _____ ☐ Shade Tree Commission Approval _____ ☐ Lot Split (if required) _____
☐ Floor Plan (7 copies) _____ ☐ B.Z.A. Approval (if required) _____

P.U.D. Fees: \$600.00 + \$30.00/dwelling unit. Title 41 Fee: \$125.00

I HEREBY SWEAR OR AFFIRM THAT ALL THE INFORMATION PROVIDED AND DRAWINGS ATTACHED ARE TO THE BEST OF MY KNOWLEDGE TRUTHFUL AND ACCURATE.

Applicant Signature  Date 6/19/2025
 Owner Signature _____ Date _____

(For Office Use Only)

Zone: _____ Flood Plain: _____ Parcel #(s): _____
 Preliminary Meeting: _____ Date: _____
 City Planner: _____ Fire Chief: _____ Dir. of Eng. & PW: _____
 Service-Safety Dir.: _____ Police Chief: _____ Code Director: _____
 Planning Commission: _____ Date: _____ ☐ Approval ☐ Refusal
 City Council (P.U.D. only): _____ Date: _____ ☐ Approval ☐ Refusal

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF TWO MULTI-FAMILY BUILDINGS, TWO TOWNHOUSE BUILDINGS, AND A COMMUNITY BUILDING, INCLUDING ASSOCIATED PARKING, DRIVES, UTILITIES, AND STORMWATER MANAGEMENT.

BASIS OF BEARINGS

BEARINGS ARE BASED UPON THE GRID AZIMUTH (AZ 193 57' 50.6") BETWEEN NATIONAL GEODETIC SURVEY CORS STATION "STKR" AND MCCARTY ASSOCIATES' GEODETIC SURVEY CONTROL MONUMENT "2001" AND DERIVED FROM GNSS OBSERVATIONS TAKEN AUGUST 25, 2025, UTILIZING THE OHIO REAL TIME NETWORK (TRIMBLE VIRTUAL REFERENCE SYSTEM). TRIMBLE FILE: (25221 08-06-25)

SITE SETTINGS

SITE SETTINGS ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011) AND NAVD 88.

NATIONAL GEODETIC SURVEY CONTROL MONUMENTS

NAME	LATITUDE	LONGITUDE	HEIGHT	NORTHING	EASTING	ELEVATION
01 110	39°18'01.70805"N	82°05'52.05656"W	607.476	473906.430	2082317.222	719.645
				RESIDUALS	ΔN=0.038	ΔE=0.440

STOCKER OHIO UNIV CORS (STKR)	39°19'33.82493"N	82°06'25.62970"W	584.106	483211.193	2079647.888	696.265
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LOCAL CONTROL MONUMENT "2001"

NAME	LATITUDE	LONGITUDE	HEIGHT	NORTHING	EASTING	ELEVATION
LOCAL CONTROL MONUMENT "2001"	39°17'22.37555"N	82°07'08.47461"W	696.643	469901.072	2079647.122	808.784

LOCAL SITE SETTINGS

LOCAL GROUND COORDINATES	NAVD 88
NORTHING	EASTING
469901.072	2076327.122
ELEVATION	808.784
GROUND SCALE FACTOR: 1.00009604922691	GEOD18 (CONUS)

UNITS ARE IN U.S. SURVEY FEET (SFT).

CONTROL POINTS AND BENCH MARKS

CONTROL POINTS AND BENCHMARKS ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011) AND NAVD 88.

CP #1

5/8" IRON PIN SET (LOCAL CONTROL MONUMENT "2001")

NORTHING = 469901.07

EASTING = 2076327.12

ELEVATION = 808.78'

CP #2

MAG NAIL SET

NORTHING = 469692.50

EASTING = 2076218.52

ELEVATION = 783.79

CP #3

MAG NAIL SET

NORTHING = 469061.35

EASTING = 2075926.24

ELEVATION = 697.14

CP #4

MAG NAIL SET

NORTHING = 469344.39

EASTING = 2075263.585

ELEVATION = 686.44

FLOOD ZONE

THE SUBJECT SITE IS LOCATED IN ZONE "X", AREAS OF MINIMAL FLOOD HAZARD, ACCORDING TO THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 39009C0240C, DATED DECEMBER 18, 2009.

SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT), 2023 VERSION & REVISIONS, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS SHALL GOVERN THIS IMPROVEMENT.

UTILITY CONTACTS

WATER
LE-AX WATER DISTRICT
6000 INDUSTRIAL DRIVE
ATHENS, OHIO 45701
(740) 594-0123

SANITARY SEWER
ATHENS COUNTY WATER & SEWER
15 S. COURT STREET
ATHENS, OHIO 45701
(740) 592-3219

ELECTRIC
AEP ATHENS
9135 STATE ROUTE 682
ATHENS, OHIO 45701
(740) 594-1662

TELECOMM
FRONTIER COMMUNICATIONS
754 W. UNION STREET
ATHENS, OHIO 45701
(740) 245-6633

GAS
COLUMBIA GAS OF OHIO, INC.
290 W. NATIONWIDE BLVD.
COLUMBUS, OH 43215
(614) 738-4395

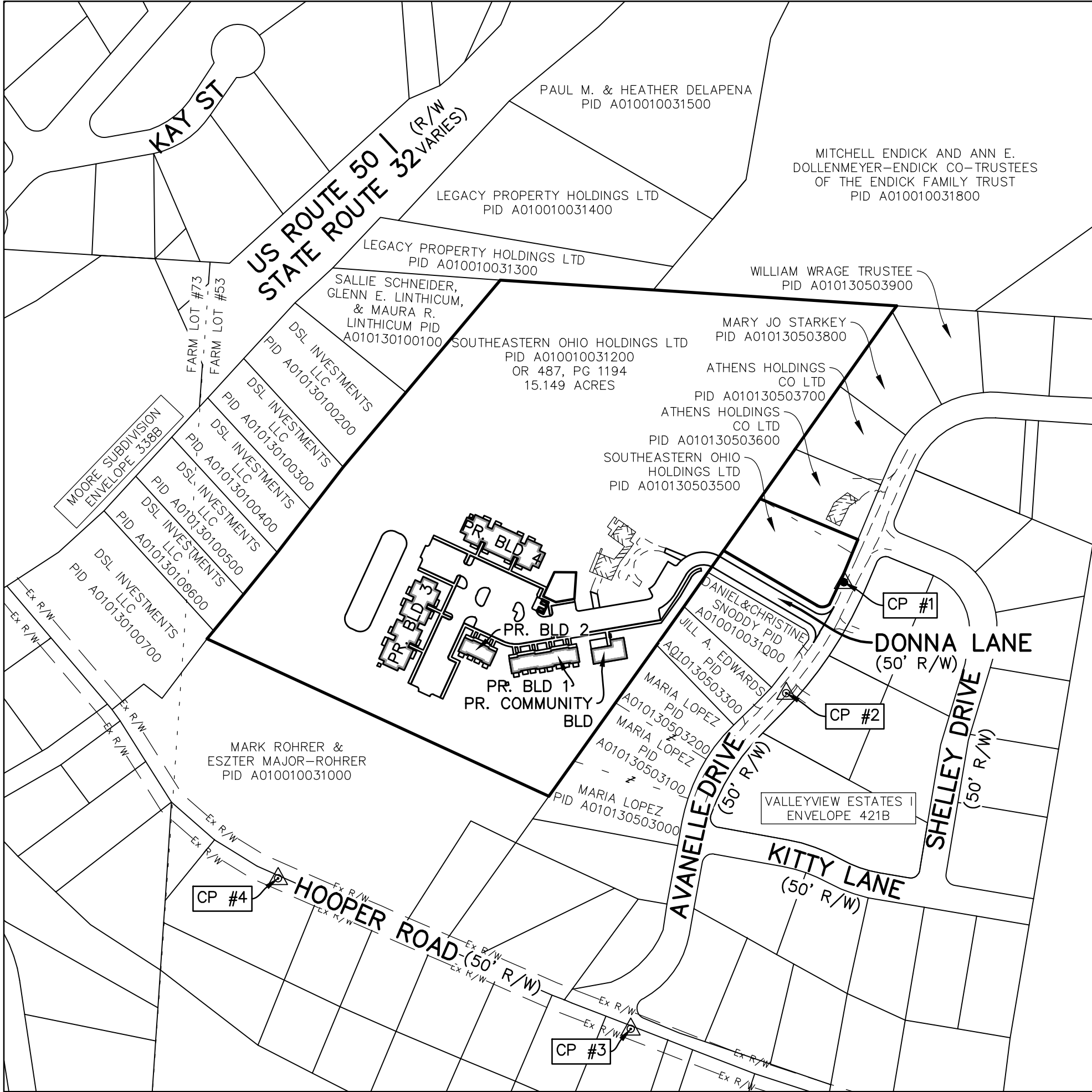
CONSTRUCTION DOCUMENTS FOR

AVANELLE CROSSING

6251 AVANELLE DRIVE

ATHENS, OH 45701

ATHENS TOWNSHIP, ATHENS COUNTY



OWNER/DEVELOPER

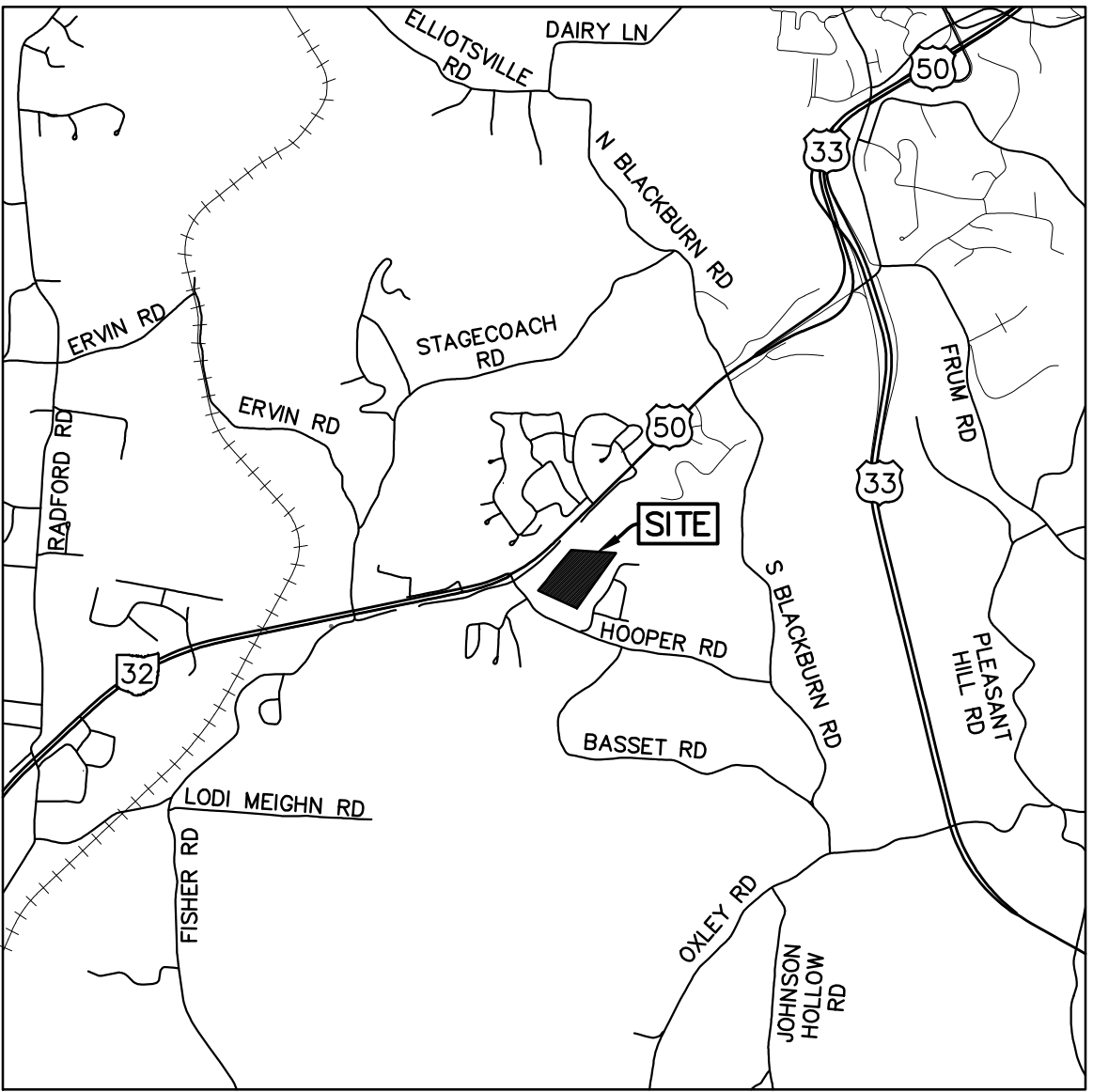
SUNSET DEVELOPMENT AND INVESTMENT LLC
692 NORTH HIGH STREET, SUITE 204
COLUMBUS, OHIO 43215
JAMES HUNLEY
JHUNLEY@SUNSETDEV.COM
614-220-8575

DESIGN CONSULTANT

MCCARTY ASSOCIATES, LLC
213 NORTH HIGH STREET
HILLSBORO, OHIO 45133
GARRETT SPARGUR
GSPARGUR@MCCARTYASSOCIATES.COM
937-393-9971

SURVEYOR

MCCARTY ASSOCIATES, LLC
213 NORTH HIGH STREET
HILLSBORO, OHIO 45133
JASON MCCONNAUGHEY
JMCC@MCCARTYASSOCIATES.COM
937-393-9971



VICINITY MAP

SCALE: 1" = 3000'

INDEX OF SHEETS

COVER SHEET.....	C001
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SITE DETAILS.....	C003
SANITARY SEWER NOTES.....	C004
WATER MAIN NOTES.....	C005
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EXISTING CONDITIONS & DEMOLITION PLAN.....	C102
OVERALL SITE PLAN.....	C201
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DONNA LANE PLAN & PROFILE.....	C301
OVERALL GRADING PLAN.....	C401
GRADING PLAN.....	C402
OVERALL UTILITY PLAN.....	C501
UTILITY PLAN.....	C502
STORMWATER POLLUTION PREVENTION PLAN.....	C601-C603

APPROVALS

SIGNATURES BELOW SIGNIFY CONCURRENCE WITH THE GENERAL PURPOSE AND LOCATION OF THE PROPOSED PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE DESIGN ENGINEER PREPARING THE PLANS.

SIGNATURE _____ DATE _____

SIGNATURE _____ DATE _____

SIGNATURE _____ DATE _____

SIGNATURE _____ DATE _____

ENGINEER OF RECORD

CODY W. BEUCLER, P.E.

DATE

REVISIONS

PRELIMINARY

NOT FOR

CONSTRUCTION

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CONSTRUCTION DOCUMENTS FOR

AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER

25-221

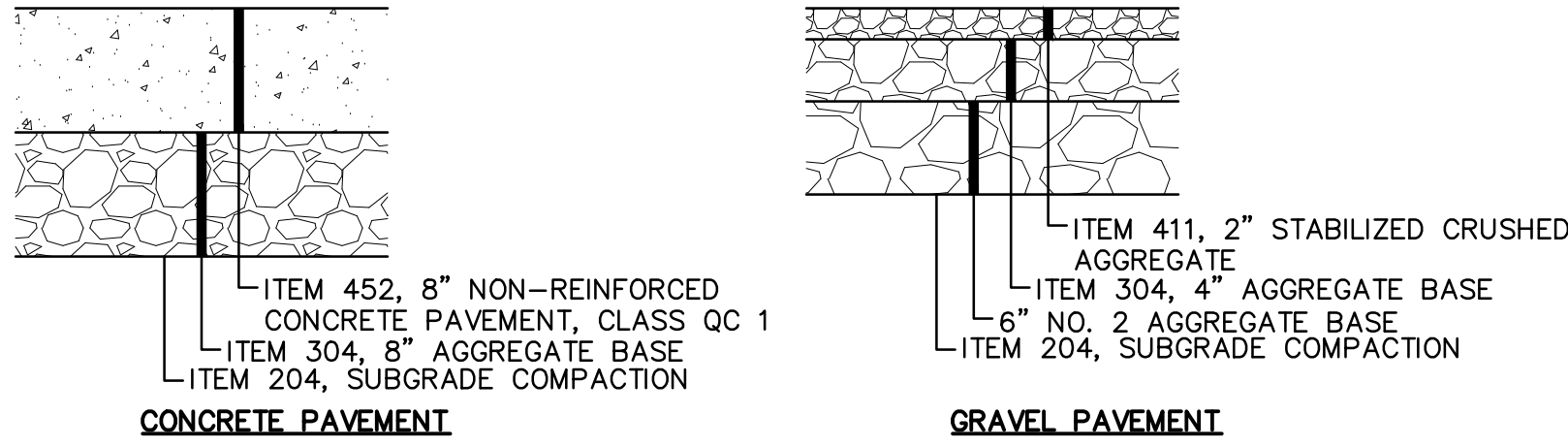
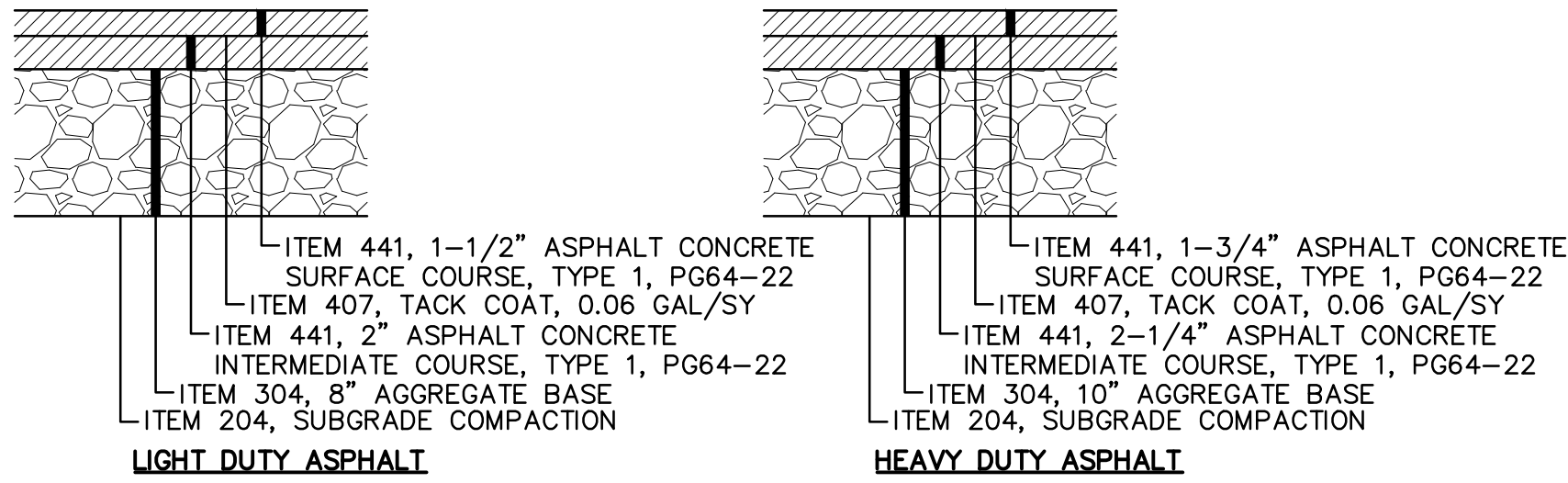
COVER SHEET

DRAWING NUMBER

C001

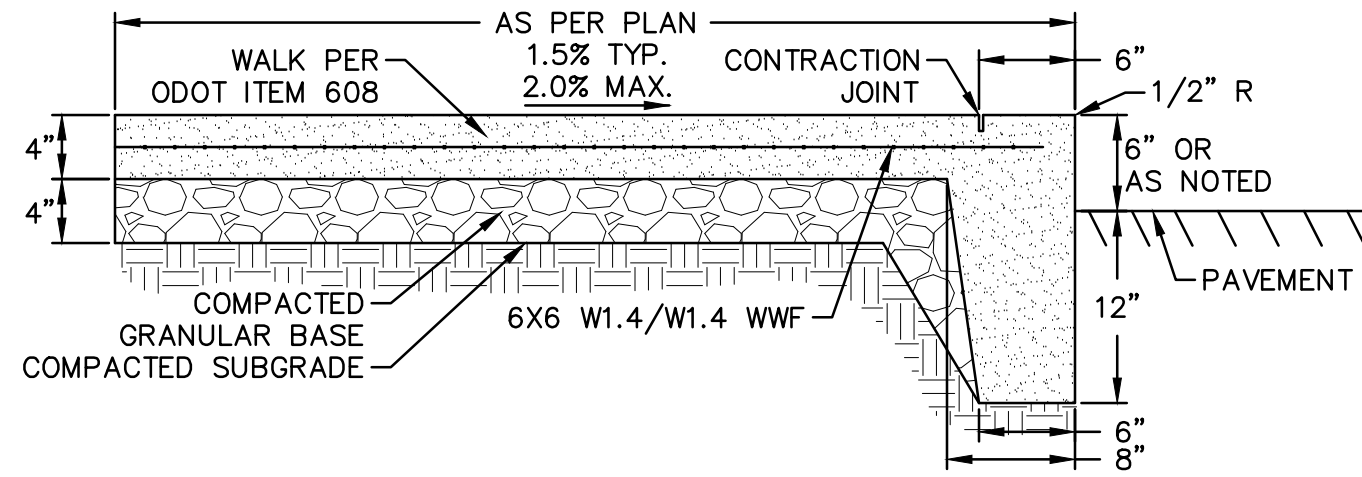


L:\2025\25-221 Sunset Development Avanelle Crossing Housing Development\AutoCAD\DWG_Sheets\25221_1_General Notes.dwg, Gen Notes, 9/19/2025 11:40:32 AM.

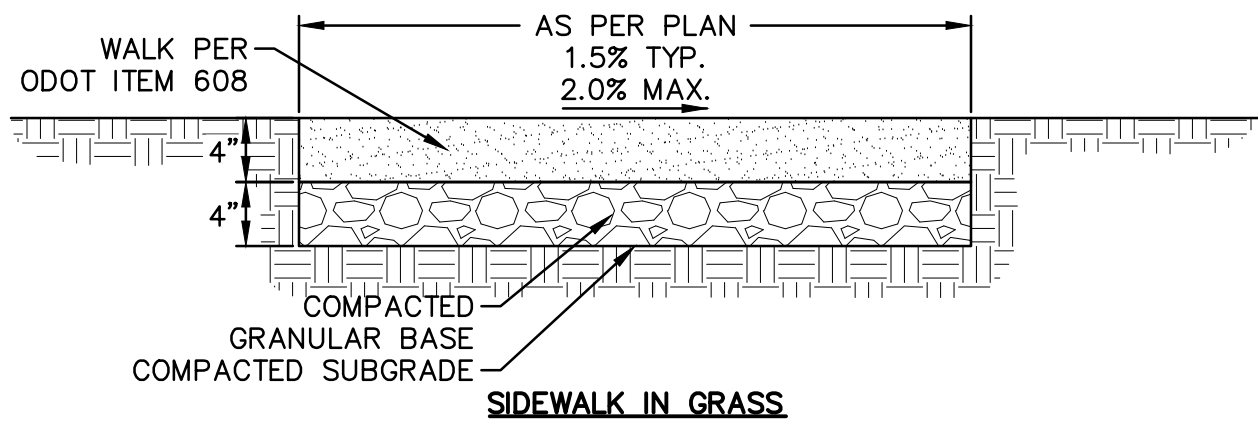


ALL PAVEMENT MATERIALS SHALL CONFORM TO THE CURRENT VERSION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

PAVEMENT SECTIONS
NOT TO SCALE



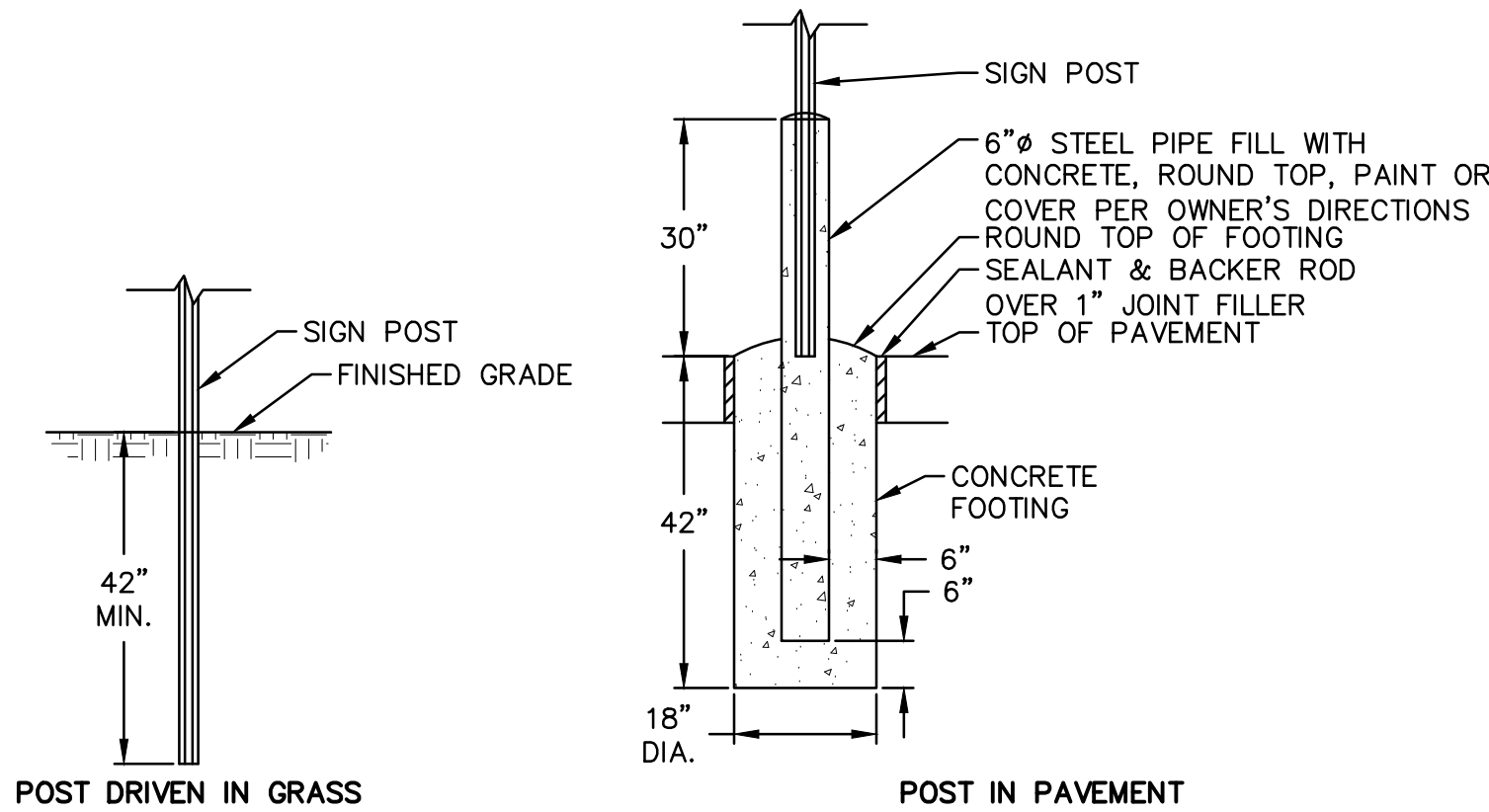
Integral sidewalk and curb



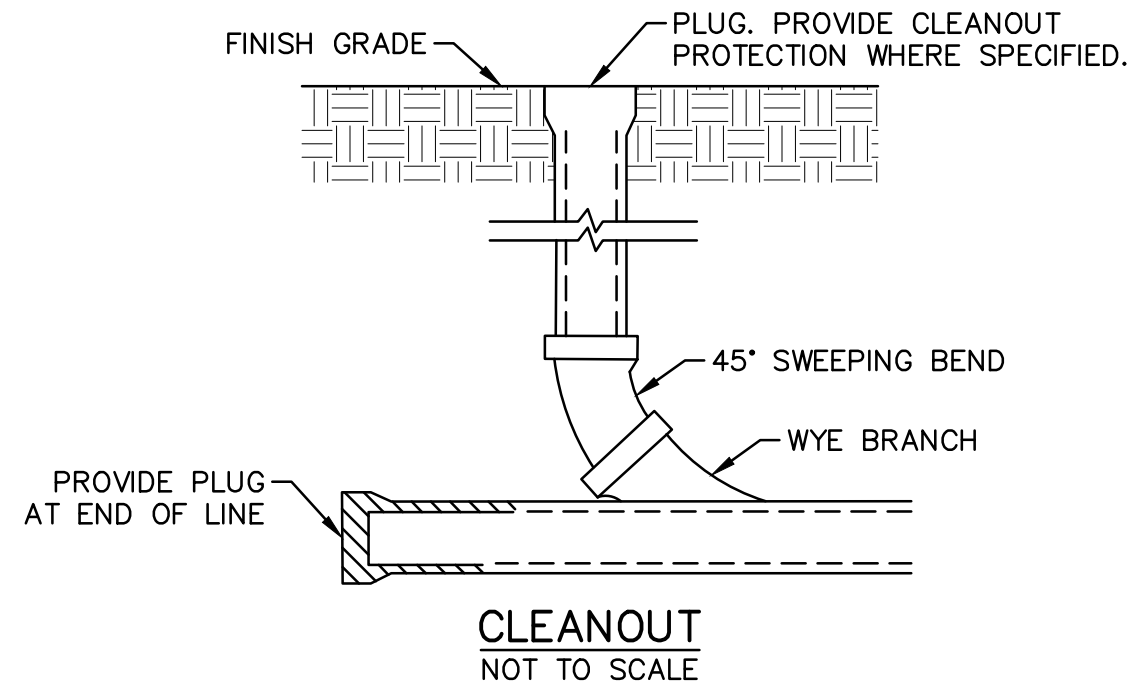
Sidewalk in grass

- NOTES
1. PROVIDE LIGHT BROOM FINISH TO ALL EXPOSED SURFACES.
 2. CONCRETE SHALL BE CLASS QC 1 PER ODOT ITEM 499.
 3. ADD CONTRACTION JOINTS SPACED AT APPROX. 5' INTERVALS.
 4. ADD 1/2" PREMOLDED EXPANSION JOINT APPROX. EVERY 40 FT.
 5. USE A 1/4" RADIUS EDGING TOOL TO EDGE ALL OUTSIDE EDGES AND JOINTS.

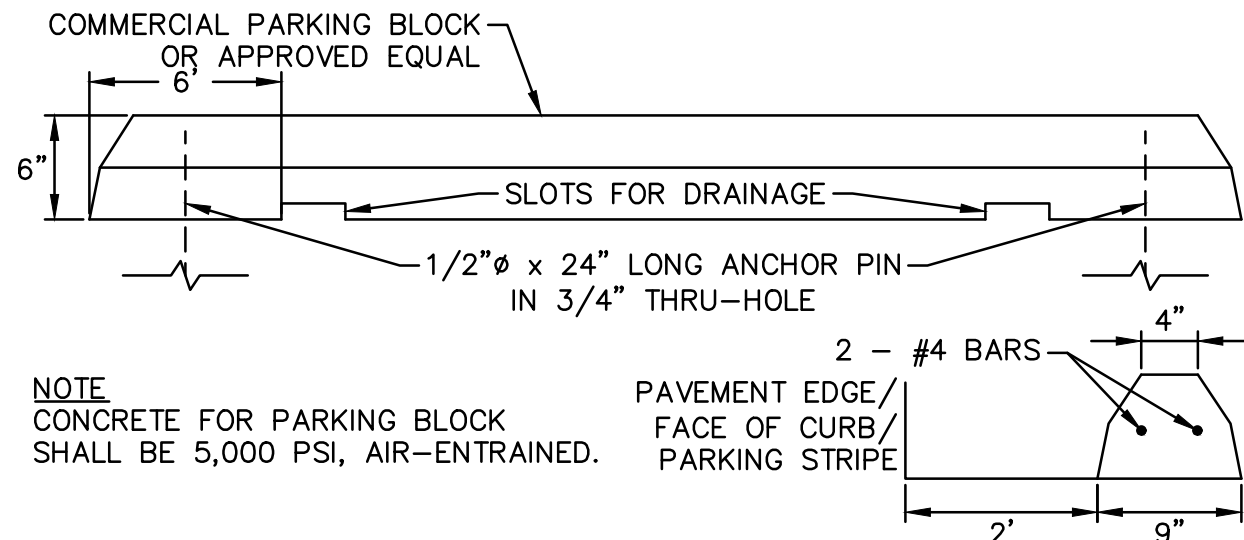
CONCRETE SIDEWALK
NOT TO SCALE



SIGN POST INSTALLATION
NOT TO SCALE

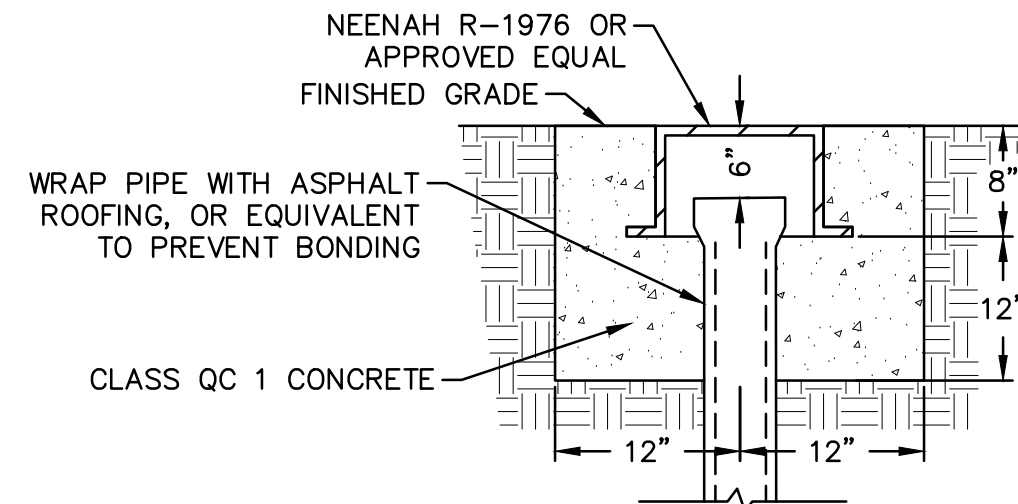


CLEANOUT
NOT TO SCALE

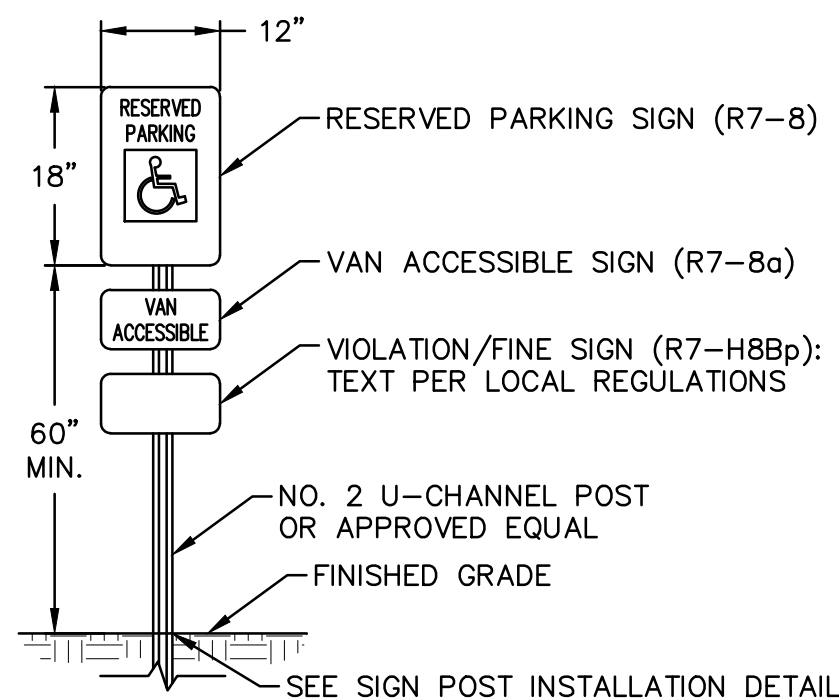


- NOTE
- CONCRETE FOR PARKING BLOCK SHALL BE 5,000 PSI, AIR-ENTRAINED.

PARKING BLOCK
NOT TO SCALE

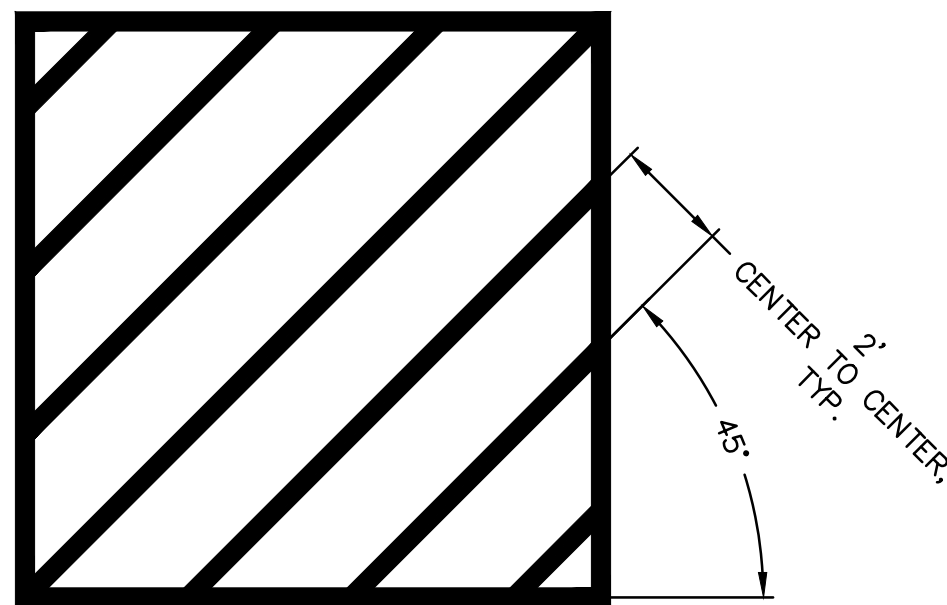


CLEANOUT PROTECTION
NOT TO SCALE



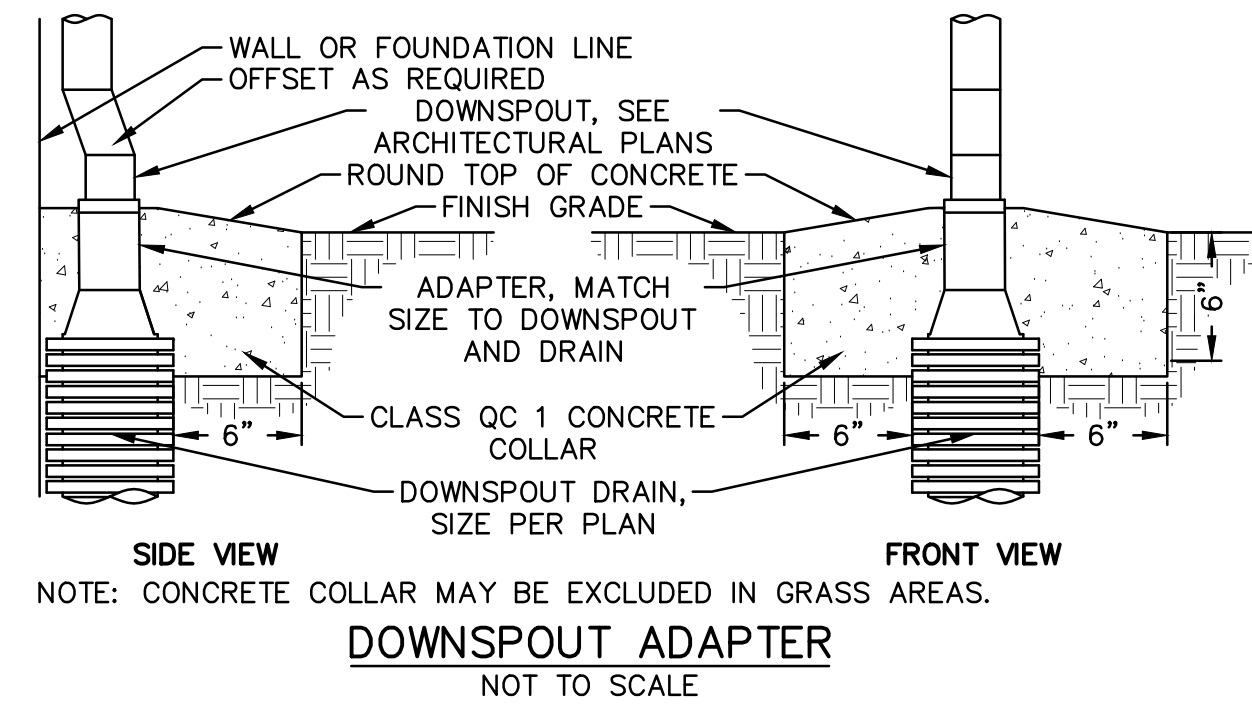
- NOTES
1. ACCESSIBLE PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.

ACCESSIBLE PARKING SIGN
NOT TO SCALE



- NOTES
1. ALL PAVEMENT STRIPES HAVE A WIDTH OF 4".
 2. ALL PAVEMENT STRIPES ARE WHITE, UNLESS NOTED OTHERWISE.
 3. PAVEMENT STRIPES SHALL CONFORM TO ODOT ITEM 640

TRANSVERSE PAVEMENT MARKING
NOT TO SCALE



- NOTE: CONCRETE COLLAR MAY BE EXCLUDED IN GRASS AREAS.

DOWNSPOUT ADAPTER
NOT TO SCALE

REVISIONS

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MCCARTYASSOCIATES.COM

CONSTRUCTION DOCUMENTS FOR
AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER
25-221

SITE DETAILS

DRAWING NUMBER

C003

L:\2025\25-221 Street Development\Avanelle Crossing Housing Development\Avanelle Crossing\Housing Development\Avanelle Crossing\San Notes, 9/19/2025 11:40:33 AM, general.dwg To Pdf.pc3

SANITARY SEWER NOTES

1. MATERIALS. THE MATERIALS USED IN THIS WORK SHALL ALL BE NEW. A COPY OF THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS FOR EACH KIND OF PIPE USED MUST BE PROVIDED TO EACH FOREMAN AND INSPECTOR PRIOR TO CONSTRUCTION AND MUST BE FOLLOWED DURING CONSTRUCTION UNLESS OTHERWISE INSTRUCTED.
- A. PVC PIPE.
1. PVC (POLY-VINYL CHLORIDE) PIPE SHALL BE USED IN ALL MAINS AND SERVICE CONNECTIONS.
2. PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-3034 RIGID PVC (SDR-35) AND/OR ASTM F6791-1 SDR 35 OR PVC EQUIVALENT. THE PIPE SHALL HAVE BELL AND SPIGOT JOINTS WITH AN APPROVED GASKETED JOINT. THE SPIGOT END SHALL BE MARKED SO THAT THE INSTALLER AND THE INSPECTOR CAN DETERMINE WHEN THE PIPE IS PROPERLY INSTALLED.
3. PIPE ENTRANCES TO MANHOLES SHALL BE SEALED WATERTIGHT WITH O-RING GASKETS OR OTHER METHOD AS SPECIFIED AND APPROVED BY THE CITY AND MUST MEET ASTM F-477 OR PVC EQUIVALENT.
4. SERVICES SHALL BE OF MATERIALS SPECIFIED. WHERE THE SERVICE MATERIAL IS NOT DESIGNED TO FIT THE PVC PIPE WYE TIGHTLY, AN APPROVED COMMERCIAL ADAPTOR JOINT SHALL BE USED TO CONNECT THE SERVICE PIPE TO THE PVC PIPE AND MUST MEET ASTM D-3212 OR PVC EQUIVALENT.
- B. SERVICE PIPE. SERVICE PIPE MATERIALS SHALL BE PVC SEWER PIPE (ASTM D-3034 OR SCHEDULE 40 OR PVC EQUIVALENT).
- C. MANHOLES.
1. ALL MANHOLES SHALL BE CONSTRUCTED WITH PRECAST SECTIONS UNLESS OTHERWISE APPROVED.
2. PRECAST CONCRETE MANHOLE SECTIONS SHALL BE MANUFACTURED TO STANDARDS AT LEAST EQUAL TO OR GREATER THAN THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS, ASTM DESIGNATION C478. THE INTERNAL DIAMETER FOR SANITARY MANHOLES SHALL BE 48 INCHES UNLESS SHOWN OTHERWISE. MANHOLES SHALL CONFORM TO ALL REQUIREMENTS AS SHOWN ON THE DETAIL DRAWINGS. MANHOLES SHALL HAVE STEPS UNLESS OTHERWISE SPECIFIED. PRECAST MANHOLE JOINTS SHALL BE MADE WATERTIGHT WITH RAM-NEK MATERIAL OR APPROVED O-RING GASKET AT EACH JOINT. THE RAM-NEK AND PRIMER MUST BE USED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
3. RUBBER O-RINGS USED FOR PRECAST MANHOLE JOINTS SHOULD BE R-4 JOINT OR SHALL BE DESIGNED IN ACCORDANCE WITH ASTM DESIGNATION C361.
4. THE CONCRETE BASE SHALL BE CAST-IN-PLACE CONCRETE OF THE SIZE AND DEPTH SHOWN ON THE DRAWINGS. CONCRETE USED FOR BASES SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 3,000 POUNDS PER SQUARE INCH. APPROVED PRECAST CONCRETE BASES WILL BE ALLOWED IF PLACED IN AN APPROVED MANNER.
5. MANHOLE FRAMES AND COVERS. MANHOLE FRAMES AND COVERS SHALL HAVE A ROUND BASE, 22-INCH OPENING NON-LOCKING TYPE, WITH FRAME AND COVER WEIGHING APPROXIMATELY 327 POUNDS. COVER AND FRAME SEAT SHALL BE MACHINE FINISHED TO PREVENT ANY ROCKING OF COVER IN ITS ASSOCIATED FRAME. COVER SHALL HAVE THE WORD SEWER CLEARLY CAST ON ITS SURFACE.
6. MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE CAST-IRON OR POLYPROPYLENE COVERED ALLOY. STEEL OR WROUGHT IRON STEPS OF ANY KIND WILL NOT BE PERMITTED. STEPS SHALL BE DROP-FRONT DESIGN WITH MINIMUM TREAD WIDTH OF NINE INCHES. RUBBER-COVERED "WEDGLOK" MANHOLE STEPS MAY BE USED IN LIEU OF THE ABOVE.
- D. GRANULAR MATERIALS. GRANULAR MATERIALS FURNISHED FOR FOUNDATION, BEDDING, ENCASEMENT OR OTHER PURPOSES SHALL CONSIST OF ANY MATERIAL OR SYNTHETIC MINERAL AGGREGATE SUCH AS SAND, GRAVEL, CRUSHED ROCK, CRUSHED STONE OR SLAG, THAT SHALL BE SO GRADED AS TO MEET THE GRADATION REQUIREMENTS SPECIFIED HEREIN FOR EACH PARTICULAR USE.
- E. SELECT BACKFILL. JOB EXCAVATED SELECT BACKFILL MATERIAL SHALL BE FREE FROM DEBRIS, ORGANIC MATERIAL, AND STONES LARGER THAN THREE INCHES IN DIAMETER.
2. ALIGNMENT AND GRADES.
- A. ALL ROADWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LINES AND GRADES SHOWN ON THE APPROVED DRAWINGS.
- B. THE CONTRACTOR SHALL PROVIDE AN EXPERIENCED INSTRUMENT MAN, COMPETENT ASSISTANTS AND SUCH INSTRUMENTS, TOOLS, STAKES, AND OTHER MATERIALS REQUIRED TO COMPLETE THE SURVEY, LAYOUT, AND MEASUREMENT WORK.
- C. ANY WORK DONE WITHOUT BEING PROPERLY LOCATED MAY BE ORDERED REMOVED AND REPLACED AT THE DEVELOPER'S EXPENSE.
3. DETOUR - TRAFFIC CONTROL - TEMPORARY CROSSINGS AND BARRICADES.
- A. TRAFFIC WILL BE PERMITTED TO USE THE STREET AT ALL TIMES, UNLESS A DETOUR IS SPECIFICALLY PERMITTED ON THE DRAWINGS OR BY THE CITY. SAFE ACCESS TO ALL ABUTTING RESIDENCES AND PROPERTIES SHALL BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE.
- B. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY CROSSINGS, COMPLETE WITH FLAGGERS, WHENEVER NECESSARY TO EXPEDITE THE WORK OR TO MAINTAIN TRAFFIC. TEMPORARY CROSSINGS SHALL BE OF AMPLE SIZE TO SAFELY CARRY THE LOAD WHICH COMES UPON THEM. THE CONTRACTOR SHALL FURNISH SUFFICIENT SIGNS AND BARRICADES TO FACILITATE THE DIRECTING OF TRAFFIC.
4. LAYING OF PIPE.
- A. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH, AND IT SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. ALL OPENINGS ALONG THE LINE OF THE SEWER SHALL BE SECURELY CLOSED AS DIRECTED AND, IN THE SUSPENSION OF WORK AT ANY TIE, SUITABLE WATERTIGHT STOPPERS SHALL BE PLACED TO PREVENT EARTH, WATER OR OTHER SUBSTANCES FROM ENTERING THE SEWER.
- B. PIPING SHALL BE LAID TO THE LINES AND GRADES INDICATED ON THE DRAWINGS.
- C. FINE GRADING TO THE BOTTOM OF THE BARREL SHALL PROCEED AHEAD OF THE PIPE LAYING AND, SHOULD ANY OVER-EXCAVATION EXCEEDING TWO INCHES BE ENCOUNTERED, THE MATERIAL ADDED SHALL BE MOISTENED AND COMPACTED TO THE SATISFACTION OF THE CITY OR FOUNDATION MATERIAL SHALL BE ADDED.

- D. HOLES SHALL BE DUG FOR THE PIPE BELLS AND THE MATERIAL PLACED ALONG THE PRECEDING PIPE LAID. THE PIPE SHALL BE SUPPORTED TO THE BOTTOM OF THE TRENCH WITHOUT ITS LENGTH (EXCEPT FOR THE MINIMUM DISTANCE NECESSARY AT THE BELL HOLES) AS SHOWN ON THE DRAWINGS. BELL HOLES SHALL BE ADEQUATE TO MAKE THE JOINT, BUT NO LARGER THAN NECESSARY SO THAT MAXIMUM SUPPORT ON UNDISTURBED GROUND WILL BE PROVIDED FOR THE PIPE. THE REMAINDER OF THE PIPE SHALL BE SURROUNDED TO AT LEAST THE MID-POINT OF THE PIPE BY GRANULAR BEDDING, SHOVEL PLACED AND HAND STAMPED, TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. NON-GRANULAR MATERIALS MUST BE USED FOR PVC PIPE.
- E. PIPE LAYING SHOULD PROCEED UPGRADE WITH THE SPIGOT ENDS POINTED IN THE DIRECTION OF FLOW. NO PIPE SHALL BE LAID IN WATER OR WHEN THE TRENCH CONDITIONS ARE UNSUITABLE FOR SUCH WORK. THE CONTRACTOR SHALL MAKE ALL CONNECTIONS OF PIPE TO THE MANHOLES WHICH HAVE PREVIOUSLY BEEN CONSTRUCTED.
- F. WHEN CONNECTING TO EXISTING SEWERS, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO PREVENT DIRT OR DEBRIS FROM ENTERING THE EXISTING LINES. THE CONTRACTOR SHALL USE AN APPROVED WATERTIGHT PLUG TO SECURELY PLUG THE NEW SEWER AT THE CONNECTION TO THE EXISTING SEWER IMMEDIATELY AFTER THE CONNECTION HAS BEEN MADE. THE PLUG SHALL BE BRACED AS NECESSARY AND TIED TO THE MANHOLE BY A ROPE OR CHAIN. THIS PLUG SHALL REMAIN UNTIL THE NEW SEWER SYSTEM HAS BEEN ACCEPTED BY THE CITY.
5. CONSTRUCTION OF MANHOLES.
- A. EXCAVATION SHALL BE TO A DEPTH AND SIZE TO PROVIDE FOR CONSTRUCTION OF THE MANHOLE AS SHOWN IN DETAIL ON THE DRAWINGS.
- B. CONCRETE BASES SHALL BE POURED ON UNDISTURBED GROUND. PRECAST CONCRETE BASES SHALL BE CAREFULLY LOWERED ONTO SIX INCHES MINIMUM LAYER OF WELL COMPACTED SAND ACCURATELY LAID TO A SMOOTH LEVEL SURFACE USING A STRAIGHT EDGE AND HAND LEVEL OR THREE INCHES OF CONCRETE POURED ON UNDISTURBED SOIL.
- C. WALLS SHALL BE OF PRECAST CONCRETE AS SHOWN ON THE DRAWINGS AND SHALL BE CONSTRUCTED TO FORM A COMPLETE WATERTIGHT STRUCTURE.
- D. PROVIDE A MINIMUM OF SIX INCHES AND A MAXIMUM OF 18 INCHES IN TWO-INCH LAYERS OF SERVICE BRICK OR PRECAST CONCRETE ADJUSTING RINGS BETWEEN THE CAST IRON FRAME AND THE MANHOLE TOPE SECTION. EACH RING OR BRICK SHALL BE SET ON A FULL BED OF MORTAR AND SHALL BE MADE WATERTIGHT. WOOD OR OTHER FOREIGN MATERIAL WILL NOT BE ALLOWED. ADJUSTING RINGS SHALL CONFORM TO THE SIZE AND SHAPE OF THE CASTING FRAME. FRAMES AND COVERS SHALL BE SET TO THE DESIGNATED ELEVATION IN A FULL MORTAR BED.
- E. ON STREETS THAT ARE NOT AT DESIGN GRADE, SEWER MANHOLES SHALL BE BUILT WITH SUCH ADDITIONAL ADJUSTING RINGS OR SHORT MANHOLE SECTIONS AS NECESSARY TO ALLOW FOR ADJUSTMENT OF THE STREET TO THE PROPOSED GRADE AS SHOWN ON THE DRAWINGS. MANHOLE CASTING TOPS SHALL BE 1/4-INCH BELOW THE STREET SURFACING.
- F. WHEN MANHOLES ARE TO BE CONSTRUCTED IN NEW STREETS, MANHOLE RINGS SHALL BE SET TO FINAL GRADE BEFORE STREET WEARING COURSE IS LAID. IN UNPAVED ROADWAYS, THE MANHOLE RING SHALL BE BROUGHT TO GRADE AND SURROUNDED BY A THREE-INCH THICK ASPHALT APRON AT LEAST FIVE FEET IN DIAMETER.
- G. THE BOTTOM OF ALL MANHOLES SHALL BE SMOOTHLY SHAPED TO CONFORM TO THE PIPE SO AS TO ALLOW A FREE, UNINTERRUPTED FLOW OF SANITARY SEWAGE.
- H. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, THE SANITARY SEWER PIPE SHOULD BE LAID CONTINUOUSLY THROUGH THE MANHOLES AND BROKEN OR CUT OUT WHEN THE MANHOLE BASE IS FINISHED. MANHOLE COUPLINGS OR RUBBER RING STOPS MUST BE USED WHERE THE PIPE JOINS THE MANHOLES.
6. BACKFILLING AND GRADING.
- A. ALL EXCAVATION IN TRENCHES SHALL BE BACKFILLED TO THE ORIGINAL GROUND SURFACE OR TO SUCH GRADES AS SPECIFIED OR SHOWN ON THE DRAWINGS. THE BACKFILL SHALL BEGIN AS SOON AS PRACTICAL AFTER THE PIPE HAS BEEN PLACED AND SHALL THEREAFTER BE CARRIED ON AS RAPIDLY AS THE PROTECTION OF THE BALANCE OF THE WORK SHALL PERMIT.
- B. BACKFILLING AND COMPACTING SHALL BE DONE AS THOROUGHLY AS POSSIBLE SO AS TO PREVENT AFTER-SETTLEMENT. DEPOSITING OF THE BACKFILL SHALL BE DONE SO THE IMPACT OF FALLING MATERIAL WILL NOT INJURE THE PIPE OR STRUCTURES.
- C. GRANULAR BEDDING SHALL BE DEPOSITED IN THE TRENCH SIMULTANEOUSLY ON BOTH SIDES OF THE PIPE FOR THE FULL WIDTH OF THE TRENCH TO A HEIGHT AT LEAST TO THE MID-POINT OF THE PIPE, SHOVEL PLACED, AND HAND STAMPED TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. ENCASEMENT MATERIAL WILL THEN BE PLACED AROUND AND OVER THE PIPE TO A HEIGHT OF AT LEAST 12 INCHES ABOVE THE TOP OF THE PIPE BUT NEED NOT BE HAND PLACED. NONGRANULAR MATERIALS MAY BE USED FOR ENCASEMENT EXCEPT FOR PVC PIPE.
- D. IN THE EVENT THAT NATURAL, SUITABLE, GRANULAR MATERIAL IS NOT ENCOUNTERED DURING THE NORMAL EXCAVATION OF THE SEWER TRENCH, OR WHEN THE MATERIAL ENCOUNTERED IS DETERMINED UNSUITABLE BY THE CITY FOR ENCASEMENT AROUND THE PIPE AS REQUIRED, THE CONTRACTOR SHALL PROVIDE AND PLACE SUCH APPROVED MATERIAL. FOR PVC PIPE, APPROVED GRANULAR ENCASEMENT MATERIAL MUST BE PLACED AND HAND STAMPED TO AT LEAST SIX INCHES OVER THE TOP OF THE PIPE. THE REMAINING SIX INCHES MAY BE NONGRANULAR MATERIAL IF SPECIFICALLY APPROVED BY THE CITY.
- E. SUCCEEDING LAYERS OF BACKFILL ABOVE THE 12-INCH LEVEL MAY CONTAIN COARSE MATERIALS NOT EXCEEDING THREE INCHES IN THE LARGEST DIMENSION, BUT SHALL BE FREE FROM LARGE PIECES OF ROCK, FROZEN MATERIAL, CONCRETE, ROOTS, STUMPS, TIN CANS, RUBBISH, AND OTHER SIMILAR ARTICLES WHOSE PRESENCE IN THE BACKFILL WOULD CAUSE SETTLEMENT OF THE TRENCH OR DAMAGE TO THE PIPE.
- F. WHENEVER SELECT MATERIAL THAT EXISTS IN PLACE IN THE UPPER FOUR FEET OF THE FINISHED GRADE OF THE PAVED OR TRAVELED PORTIONS OF THE STREET OR ROADWAY, IS REMOVED BY THE TRENCH EXCAVATION, THE CONTRACTOR SHALL REPLACE THE MATERIAL (OR MATERIAL OF EQUAL QUALITY) AS BACKFILL IN THE UPPER FOUR FEET OF THE FINISHED GRADE. WHERE SELECT MATERIAL DOES NOT EXIST IN PLACE AS DESCRIBED ABOVE, PROVIDE AND PLACE SUFFICIENT SELECT BACKFILL TO STABILIZE THE FINISHED GRADE.

- G. BACKFILLING SHALL BE DONE IN LIFTS OF UNIFORM LAYERS WHICH WILL PRODUCE THE REQUIRED COMPACTION. EACH LIFT SHALL BE COMPLETELY COMPACTED OVER THE FULL WIDTH OF THE EXCAVATED AREA. COMPACTING SHALL CONTINUE UNTIL THE SPECIFIED RELATIVE COMPACTION HAS BEEN ATTAINED OR UNTIL NO MORE SETTLEMENT OCCURS. WATER JETTING OF BACKFILL SHALL NOT BE PERMITTED.
- H. SPECIAL COMPACTION SHALL BE PERFORMED AROUND ALL MANHOLES, VALVE BOXES, CURB BOXES, OTHER STRUCTURES, AND UTILITIES BY THE USE OF PNEUMATIC TAMPERS, PLATE TAMPERS, OR PLATE VIBRATORS.
- I. SEWER SERVICE TRENCHES IN THE RIGHT-OF-WAY MUST BE COMPACTED IN THE SAME MANNER AS THE MAIN TRENCHES. IN STREETS OPEN TO TRAFFIC, SERVICE TRENCHES MUST NOT BE LEFT OPEN OVERNIGHT. IN AREAS WHERE CURB AND GUTTER EXIST, SUFFICIENT CURBING SHALL BE REMOVED TO ALLOW THIS COMPACTION OVER THE ENTIRE DISTURBED AREA.
- J. THE RELATIVE COMPACTION OF THE SOILS IN PLACE SHALL BE DETERMINED BY USING EITHER THE SAND-CONE METHOD ASTM STANDARD TEST DESIGNATION D1556-84, OR NUCLEAR METHODS, ASTM STANDARD TEST DESIGNATION D2922-71. RELATIVE COMPACTION OF ALL BACKFILL MATERIALS MUST MEET THE FOLLOWING REQUIREMENTS AS DETERMINED BY AASHO T-99 (ASTM D-698) METHOD A OR C. THE COMPACTION REQUIRED IN PAVED AREAS, AREAS TO BE PAVED, OR GRAVELED AREAS SHALL BE AS FOLLOWS:
1. NINETY-FIVE PERCENT COMPACTION FROM 24 INCHES ABOVE TOP OF PIPE TO THE FINISHED GRADE, EXCEPT THAT IN NO CASE SHALL THIS 95% COMPACTION ZONE BE LESS THAN 48 INCHES DEEP. NINETY PERCENT COMPACTION FROM PIPE ZONE TO START OF 95% COMPACTION ZONE.
2. THE COMPACTION REQUIRED OUTSIDE PAVED AREAS, OUTSIDE AREAS TO BE PAVED OR OUTSIDE GRAVELED AREAS SHALL BE 90%.
- K. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE MAINTENANCE OF HIS WORK AT ALL TIMES.
- L. THE CONTRACTOR SHALL REMEDY AT HIS OWN EXPENSE ANY DEFECTS THAT APPEAR IN THE BACKFILL FOLLOWING COMPLETION AND DURING THE ONE-YEAR GUARANTEE PERIOD.
7. SERVICE CONNECTIONS.
- A. IT SHALL BE THE DUTY OF THE CONTRACTOR TO KEEP AN ACCURATE RECORD OF SERVICE CONNECTIONS AS TO THE LOCATION, ELEVATION OF THE SERVICE AT THE PROPERTY LINE, TYPE OF CONNECTION PROVIDED, AND THE LIKE. LOCATION SHALL BE MADE IN RESPECT TO THE SURVEY LINE STATIONING AND HOUSE CORNERS OR LOT CORNERS. ALL SERVICES MUST BE APPROVED BY THE INSPECTOR PRIOR TO BACKFILL.
- B. GENERALLY, A FOUR-INCH OR SIX-INCH WYE SHALL BE USED IN THE MAIN LINE. AN APPROVED ADAPTOR OR OTHER APPROVED METHOD OF CONNECTION TO THE WYE SHALL BE INSTALLED.
- C. ALL HOUSE CONNECTIONS SHALL BE CAPPED WITH STOPPERS RECOMMENDED BY THE PIPE MANUFACTURER, SEALED FIRMLY IN PLACE, OR BY OTHER METHODS ACCEPTED BY THE CITY, WHICH SHALL EFFECTIVELY PREVENT WATER FROM ENTERING THE SEWER UNTIL THE CONNECTION IS PLACED IN SERVICE. THE HOUSE CONNECTION END SHALL BE CLEARLY MARKED BY A REBAR EXTENDING FROM THE PIPE END TO AT LEAST THREE FEET ABOVE THE GROUND.
- D. RISERS ARE TO BE CONSTRUCTED AT ALL POINTS WHERE THE DEPTH OF COVER OVER THE INVERT OF THE SEWER LINE IS 15 FEET OR MORE AT OTHER LOCATIONS AS DETERMINED BY THE ENGINEER.
8. TESTING - SANITARY SEWER.
- A. UPON COMPLETION OF ALL UTILITY CONSTRUCTION BY THIS CONTRACT AND BEFORE ANY HOUSE SERVICES ARE CONNECTED, TESTS WILL BE REQUIRED OF ALL SANITARY SEWER LINES.
- B. THE CONTRACTOR HAS THE OPTION OF PERFORMING EITHER AN AIR TEST OR AN EXFILTRATION TEST.
- TEST SHALL BE PERFORMED AFTER COMPLETE COMPACTION AND BACKFILL AND COMPLETION OF MANHOLES, BUT MAY BE PERFORMED BEFORE PAVING.
9. AIR TESTS.
- A. THE CONTRACTOR SHALL PERFORM THESE TESTS WITH SUITABLE EQUIPMENT SPECIFICALLY DESIGNED FOR AIR TESTING SEWERS.
- B. THE AIR TEST SHALL BE MADE WHEN THE SEWER IS CLEAN. SECTIONS OF SEWER PIPE TO BE TESTED, MAY BE WETTED BEFORE THE AIR TEST. THE LINE SHALL BE PLUGGED AT EACH MANHOLE WITH PNEUMATIC BALLS. LOW PRESSURE AIR SHALL BE INTRODUCED INTO THE PLUGGED LINE UNTIL THE INTERNAL PRESSURE REACHES (4.0) PSIG GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUND WATER PRESSURE THAT MAY SUBMERGE THE PIPE. AT LEAST TWO MINUTES SHALL BE ALLOWED FOR THE AIR TEMPERATURE TO STABILIZE BEFORE READINGS ARE TAKEN AND THE TIME STARTED.
- C. THE PORTION BEING TESTED SHALL PASS IF IT DOES NOT LOSE AIR AT A RATE TO CAUSE THE PRESSURE TO DROP FROM 3.6 TO 3.0 PSIG (GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUND WATER THAT MAY SUBMERGE THE PIPE) IN LESS TIME THAN LISTED BELOW.

PIPE DIAMETER (INCHES)	MINIMUM ALLOWABLE MINUTES 3.6 - 3.0 PSIG PRESSURE
4	2.0
6	3.0
8	4.0
10	5.0
12	6.0
15	7.5
18	9.0
21	10.5
24	12.0

- D. IF THE INSTALLATION FAILS THIS TEST, THE TESTING EQUIPMENT MAY BE USED TO DETERMINE THE LOCATION OF THE PIPE LEAK.
- E. ALL SERVICE PLUGS SHALL BE SECURED IN PLACE TO PREVENT DISPLACEMENT DURING TESTING OPERATIONS.
10. EXFILTRATION TEST.
- A. IN LIEU OF THE STANDARD SANITARY SEWER AIR TEST, THE CONTRACTOR MAY MAKE EXFILTRATION TESTS ON SEWERS.
- B. THE TEST SECTION SHALL BE BULKHEADED AT BOTH ENDS AND THE PIPE SUBJECTED TO A HYDROSTATIC PRESSURE PRODUCED BY A HEAD OF WATER AT A DEPTH OF THREE FEET ABOVE THE TOP OF THE SEWER AT THE UPPER MANHOLE UNDER TEST. IN AREAS WHERE GROUND WATER EXISTS, THIS HEAD OF WATER SHALL BE THREE FEET ABOVE THE EXISTING WATER TABLE.

- C. THE HEAD OF WATER SHALL BE OBTAINED BY MEANS OF AN OPEN ENDED STANDPIPE PROJECTING FROM TEST PLUG ON UPPER MANHOLE. PLACING WATER IN THE UPPER MANHOLE IS NOT PERMISSIBLE AS A MEANS OF OBTAINING THE NECESSARY PRESSURE HEAD OF WATER.
- D. THIS HEAD OF WATER SHALL BE MAINTAINED FOR A PERIOD OF ONE HOUR DURING WHICH IT IS PRESUMED THAT FULL ABSORPTION OF THE PIPE BODY HAS TAKEN PLACE, AND THEREAFTER FOR A FURTHER PERIOD OF ONE HOUR FOR THE ACTUAL TEST OF LEAKAGE. DURING THIS ONE HOUR TEST PERIOD, THE MEASURED MAXIMUM ALLOWABLE RATE OF EXFILTRATION FOR ANY SECTION OF SEWER, INCLUDING SERVICE STUBS, SHALL BE AS LISTED BELOW:

MAIN SEWER DIAMETER (INCHES)	MINIMUM ALLOWABLE EXFILTRATION GALLONS PER HOUR PER 100 FEET
4	0.6
6	0.9
8	1.2
10	1.5
12	1.9
15	2.3
18	2.8
21	3.3
24 AND LARGER	3.8

- E. IN CASE MEASUREMENTS INDICATE AN EXFILTRATION GREATER THAN THE MAXIMUM ALLOWABLE LEAKAGE, ADDITIONAL MEASUREMENTS SHALL BE TAKEN AND CONTINUED UNTIL ALL LEADS ARE LOCATED AND THE NECESSARY REPAIRS AND CORRECTIVE WORK HAVE REDUCED THE LEAKAGE IN THE SECTION BEING TESTED BELOW THE MAXIMUM ALLOWABLE BY THE SPECIFICATIONS. FOR PURPOSES OF THE TEST, THE LINE BETWEEN ADJOINING MANHOLES WILL BE CONSIDERED A SECTION AND WILL BE TESTED AS SUCH.
- F. THE INTRODUCTION OF ANY SUBSTANCE INTO THE WATER USED FOR TESTING WITH THE INTENT OF SEALING SUCH LEAKS AS MAY BE INDICATED WILL NOT BE PERMITTED.
- G. IF RESULTS OF EITHER OF THESE TESTS ARE NOT SATISFACTORY, REPAIRS OR PIPE REPLACEMENT WILL BE REQUIRED UNTIL THE CITY IS SATISFIED THAT THE LEAKAGE REQUIREMENTS ARE BEING MET. ALL REPAIR METHODS AND MATERIALS USED MUST BE ACCEPTED BY THE CITY.
11. PVC DEFLECTION TEST.
- A. ALL PVC PIPE SHALL BE SUBJECT TO A DEFLECTION TEST BY USE OF CAGE TYPE APPROVED MANDREL.
- B. IN PAVED AREAS OR AREAS TO BE PAVED, EITHER:
1. TESTING PVC SEWER LINES WITH A 4% DEFLECTION MANDREL AFTER COMPLETE BACKFILL AND COMPACTION OF TRENCH BUT BEFORE PAVING; OR
2. TESTING PVC SEWER LINES WITH A 5% DEFLECTION MANDREL AFTER PAVING IS COMPLETE.
- C. IN NON-PAVED AREAS CONTRACTOR HAS THE OPTION OF:
1. TESTING PVC SEWER LINES WITH A 4% DEFLECTION MANDREL AFTER COMPLETE BACKFILL AND COMPACTION OF TRENCH BUT BEFORE PLACING AND SPREADING TOP SOIL; OR
2. TESTING PVC SEWER LINES WITH A 5% DEFLECTION MANDREL AFTER PLACING AND SPREADING TOP SOIL (BUT BEFORE SEEDING).
- D. ALL MANDREL OUTER DIAMTERS SHALL BE EQUAL TO 96% OF THE INSIDE DIAMETER OF THE PIPE FOR A 4% DEFLECTION TEST OR 95% OF THE INSIDE DIAMETER OF THE PIPE FOR A 5% DEFLECTION TEST.
12. MANHOLE VACUUM TEST
- ALL MANHOLES SHALL BE VACUUM TESTED USING THE FOLLOWING PROCEDURES PER ASTM C-1244.
- A. PREPARATION OF THE MANHOLE
1. ALL LIFT HOLES SHALL BE PLUGGED.
2. ALL PIPES ENTERING THE MANHOLE SHALL BE TEMPORARILY PLUGGED, TAKING CARE TO SECURELY BRACE THE PIPES AND PLUGS TO PREVENT THEM FROM BEING DRAWN INTO THE MANHOLE.
- B. PROCEDURE
1. THE TEST HEAD SHALL BE PLACED AT THE TOP OF THE MANHOLE IN THE CASTING AND THE SEAL INFLATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. A VACUUM OF 10 IN. OF MERCURY (4.9 PSI) SHALL BE DRAWN ON THE MANHOLE. ONCE AT VACUUM PRESSURE, THE VALVE ON THE VACUUM LINE OF THE TEST HEAD SHALL BE CLOSED AND THE VACUUM PUMP SHUT OFF. THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9 IN. OF MERCURY (4.4 PSI).
3. THE MANHOLE SHALL PASS IF THE TIME FOR THE VACUUM READING TO DROP FROM 10 IN. OF MERCURY (4.9 PSI) TO 9 IN. OF MERCURY (4.4 PSI) MEETS OR EXCEEDS THE VALUES INDICATED IN THE BELOW TABLE.
4. IF THE MANHOLE FAILS THE INITIAL TEST, THE CONTRACTOR SHALL COORDINATE WITH THE AUTHORITY HAVING JURISDICTION ON THE NECESSARY REPAIRS TO BE MADE. THE MANHOLE SHALL THEN BE RETESTED UNTIL A SATISFACTORY TEST IS OBTAINED.

DEPTH (FEET)	MANHOLE DIAMETER (INCHES)		
	48	60	72
TIME (SECONDS)			
8 OR LESS	20	26	33
10	25	33	41
12	30	39	49
14	35	46	57
16	40	52	67
18	45	59	73
20	50	65	81
22	55	72	89
24	59	78	97
26	64	85	105
28	69	91	113
30	74	98	121

REVISIONS

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CONSTRUCTION DOCUMENTS FOR
AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER
25-221
SANITARY SEWER NOTES
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C004

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WATER MAIN NOTES

1. WATER MAIN INSTALLATION

A. WATER MAIN SHALL BE AWWA C900 POLY-VINYL CHLORIDE (PVC) PIPE, UNLESS OTHERWISE SPECIFIED.

B. SHORT BODY DUCTILE IRON FITTINGS SHALL BE CONSIDERED AS THE STANDARD.

C. GATE VALVES

1. VALVES SHALL BE EPOXY COATED RESILIUNT SEAT GATE VALVES. ALL VALVES SHALL OPEN LEFT (COUNTER-CLOCKWISE).

2. VALVE BOXES WILL BE TWO-PIECE OR THREE-PIECE AND MADE IN THE USA. ALL VALVES MUST BE INSTALLED TO GRADE BEFORE ACCEPTANCE.

D. ALL MECHANICAL JOINT BOLTS SHALL BE INSTALLED WITH RETAINER GLANDS. RETAINER GLANDS WILL BE EBA IRON MEG A – LUG. JOINT BOLTS SHALL BE COATED WITH A TAR COATING AND WRAPPED WITH POLY WRAP SO THAT ALL BOLTS ARE INSULATED FROM POSSIBLE ELECTROLYSIS.

E. ALL TEES, BENDS, PLUGS, AND HYDRANTS SHALL BE PROVIDED WITH CONCRETE THRUST BLOCKING.

F. WATER MAIN DEPTH SHALL BE A MINIMUM OF 48 INCHES BELOW FINISHED GRADE.

G. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY FROM ANY EXISTING OR PROPOSED STORM AND SANITARY UTILITIES. WATER MAIN SHALL BE LAID AT LEAST 3 FEET HORIZONTALLY AND 12 INCHES VERTICALLY OTHER UTILITIES, INCLUDING ELECTRIC, GAS, AND TELECOMMUNICATION. THE SEPARATION SHALL BE MEASURED EDGE TO EDGE.

H. TRENCH BOTTOMS SHALL BE SMOOTH IN NATURE SO THAT THERE ARE NO VOIDS LEFT BETWEEN THE PIPE AND TRENCH BOTTOM. IN ACCORDANCE WITH 2012 RECOMMENDED STANDARDS FOR WATER WORKS, UNIFORM BEDDING MUST BE PROVIDED THE ENTIRE LENGTH OF PIPE.

I. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUBMIT A LIST OF ALL MATERIALS INSTALLED TO THE WATER UTILITY.

2. WATER SERVICE INSTALLATION

A. ALL 2-INCH AND SMALLER WATER SERVICE PIPE SHALL BE TYPE "K" COPPER PIPE FROM THE WATER MAIN THRU THE CURB STOP. THE PIPE MATERIAL SHALL BE TYPE "K" COPPER OR APPROVED POLY TUBING FROM THE CURB STOP THRU THE METER SETTING.

B. ALL 3-INCH AND LARGER WATER SERVICE PIPE SHALL BE AWWA C900 PVC PIPE FROM THE WATER MAIN THRU THE METER SETTING.

C. WATER SERVICES SHALL BE A MINIMUM OF 42 INCHES BELOW FINISHED GRADE.

D. INDIVIDUAL BOOSTER PUMPS WILL NOT BE ALLOWED FOR ANY INDIVIDUAL SERVICE.

E. ALL 4" AND LARGER WATER SERVICES SHALL BE SUBJECT TO A HYDROSTATIC TEST FROM THE WATER MAIN THRU THE CONTROL VALVE TO THE WATER SECTION. HYDROSTATIC TEST SHALL BE PERFORMED AS SPECIFIED.

F. THE CONTRACTOR SHALL FLUSH ALL WATER SERVICES PRIOR TO ANY WATER METER INSTALLATION.

G. ALL METERS SHALL BE PURCHASED FROM THE WATER UTILITY.

H. BACKFLOW PREVENTION ASSEMBLY(S) SHALL BE INSTALLED, WHERE REQUIRED AND APPROVED BY THE WATER DEPARTMENT.

I. DOMESTIC AND COMBINATION WATER SERVICE BACKFLOW PREVENTER(S) SHALL MEET THE ASSE #1013 APPROVAL/STANDARD.

J. FIRE WATER SERVICE BACKFLOW PREVENTER(S) SHALL MEET THE APPROPRIATE ASSE APPROVAL/STANDARD. FIRE WATER BACKFLOW PREVENTER(S) SHALL BE SIZED TO MATCH THE FIRE WATER SERVICE AND BE EQUIPPED WITH O.S.&Y VALVES.

K. ALL FIRE SERVICES SHALL BE INSTALLED BY AN INDIVIDUAL WITH APPROPRIATE CERTIFICATION IN THE STATE OF OHIO.

3. WATER MAIN PRESSURE TESTING

HYDROSTATIC TESTING OF NEW WATER MAINS OR ANY VALVED SECTION THEREOF MUST BE COMPLETED BEFORE ACCEPTANCE BY THE CITY.

A. GENERAL REQUIREMENTS

1. BEFORE TESTING, SUFFICIENT BACKFILL SHALL BE PROVIDED TO PREVENT PIPE MOVEMENT.

2. PERFORM HYDROSTATIC TESTING AS REQUIRED IN SECTION 5 OF AWWA SPECIFICATION FOR DUCTILE IRON PIPE AND SECTION 10 OF AWWA SPECIFICATION FOR PVC PIPE.

3. WATER MUST BE USED FOR ALL PRESSURE TESTING OF NEWLY-INSTALLED WATER MAINS. AIR TEST, OR ANY OTHER MATERIAL, IS PROHIBITED.

4. TEST EACH VALVED SECTION OF WATER MAIN INDEPENDENTLY OF ONE ANOTHER UNLESS OTHERWISE APPROVED BY THE CITY.

5. VALVES SHALL NOT BE OPERATED IN EITHER DIRECTION AT DIFFERENTIAL PRESSURE EXCEEDING THE RATED PRESSURE OF THE VALVES.

B. TEST PRESSURE

1. TEST PRESSURE SHALL BE BASED ON THE ELEVATION AT THE LOWEST POINT OF ELEVATION ON THE GAUGE.

2. SUBJECT PIPE TO A HYDROSTATIC PRESSURE OF AT LEAST 2 TIMES THE WORKING PRESSURE FOR AT LEAST 2 HOURS.

3. PRESSURE SHALL NOT BE LESS THAN 1.25 TIMES THE WORKING PRESSURE AT THE HIGHEST POINT ALONG THE TEST SECTION.

4. DO NOT ALLOW TEST PRESSURE TO VARY MORE THAN 5 PSI FOR THE DURATION OF THE TEST.

5. DO NOT EXCEED PIPE OR THRUST-RESTRAINT DESIGN PRESSURE.

6. DO NOT EXCEED TWICE THE RATED PRESSURE OF VALVES OR HYDRANTS CLOSED AT PRESSURE BOUNDARY OF THE TEST.

C. PRESSURIZATION

1. EACH VALVED SECTION OF PIPE SHALL BE FILLED WITH WATER SLOWLY.

2. SPECIFIED TEST PRESSURE SHALL BE APPLIED BY MEANS OF A PUMP CONNECTED TO THE PIPE IN A MANNER SATISFACTORY TO THE CITY.

3. ALLOW THE SYSTEM TO STABILIZE AT THE TEST PRESSURE BEFORE CONDUCTING THE LEAKAGE TEST.

D. AIR REMOVAL

1. BEFORE APPLYING THE SPECIFIED TEST PRESSURE, ALL AIR SHALL BE EXPELLED COMPLETELY FROM THE PIPE, VALVES AND HYDRANTS.

2. IF PERMANENT AIR VENTS ARE NOT LOCATED AT ALL HIGH POINTS, THE CONTRACTOR SHALL INSTALL CORPORATION COCKS AT SUCH POINTS SO THAT AIR CAN BE EXPELLED. AFTER ALL AIR HAS BEEN EXPELLED, THE CORPORATION COCKS SHALL BE CLOSED AND THE TEST PRESSURE APPLIED.

3. AT THE CONCLUSION OF THE TEST, THE CORPORATION COCKS SHALL BE REMOVED AND PLUGGED OR LEFT IN PLACE AT THE DISCRETION OF THE CITY.

E. EXAMINATION

1. ANY EXPOSED PIPE, FITTINGS, VALVES, HYDRANTS, AND JOINTS SHALL BE EXAMINED CAREFULLY DURING THE TEST. ANY DAMAGED OR DEFECTIVE PIPING, FITTINGS, VALVES, HYDRANTS, OR JOINTS DISCOVERED SHALL BE REPAIRED OR REPLACED. VISIBLE LEAKAGE SHALL BE REPAIRED, REGARDLESS OF THE AMOUNT OF LEAKAGE.

F. ACCEPTANCE

1. IF ANY PIPE LAID DISCLOSES LEAKAGE GREATER THAN 5 PSI, THE CONTRACTOR SHALL, AT HIS OWN EXPENSES, LOCATE AND MAKE REPAIRS AS NECESSARY UNTIL THE LEAKAGE IS WITHIN THE SPECIFIED ALLOWANCE.

2. THE PRESSURE TEST SHALL BE REPEATED UNTIL IT IS SATISFACTORY TO THE CITY.

4. DISINFECTION OF NEW WATER MAINS

A. THE CONTRACTOR SHALL COMPLETE DISINFECTION AND RE-DISINFECTION, IF NECESSARY, AS REQUIRED IN THE MOST RECENT VERSION OF AWWA C651.

B. ALL EFFORTS SHALL BE MADE TO PREVENT CONTAMINATING MATERIALS FROM ENTERING THE WATER MAIN DURING STORAGE AND CONSTRUCTION. ANY POTENTIAL CONTAMINATION AT THE CONSTRUCTION SITE SHALL BE NOTED AND USED AS A BASIS FOR BOLSTERING DISINFECTION EFFORTS. SECTION 4.8 OF AWWA C651 OUTLINES THE BEST PRACTICES FOR PREVENTING CONTAMINATION.

C. THE TABLET/GRANULE METHOD IS THE CITY'S PREFERRED METHOD FOR DISINFECTION. OTHER METHODS, CONFORMING TO AWWA C651, MAY BE APPROVED BY THE CITY.

WARNING: THE TABLET/GRANULE METHOD MUST NOT BE USED ON SOLVENT WELDED PLASTIC OR ON SCREWED-JOINT STEEL PIPE BECAUSE OF THE REACTION OF THE JOINT COMPOUNDS WITH THE CALCIUM HYPOCHLORITE.

THE REQUIREMENTS OF THE TABLET/GRANULE METHOD ARE PROVIDED BELOW.

1. CALCIUM HYPOCHLORITE GRANULES AND TABLETS ARE PLACED IN THE WATER MAIN AS IT IS BEING INSTALLED AND FILLING THE MAIN WITH POTABLE WATER WHEN INSTALLATION IS COMPLETED. USE OF THIS METHOD REQUIRES THE PIPES AND APPURTENANCES ARE PROTECTED DURING CONSTRUCTION.

2. DURING CONSTRUCTION, THE CALCIUM HYPOCHLORITE GRANULES SHALL BE PLACED AT THE UPSTREAM END OF THE FIRST SECTION OF PIPE, AT THE UPSTREAM END OF EACH BRANCH MAIN, AND AT 500 FT. INTERVALS. USE DOSAGES LISTED IN TABLE 1.

TABLE 1
OUNCES OF CALCIUM HYPOCHLORITE GRANULES TO BE PLACED

PIPE DIAMETER (INCHES)	CALCIUM HYPOCHLORITE (OUNCES)
4	1.7
6	3.8
8	6.7
10	10.5
14 AND LARGER	D*15.1, WHERE D=DIAMETER IN FEET

3. DURING CONSTRUCTION, 5-G CALCIUM HYPOCHLORITE TABLETS SHALL BE PLACED IN EACH SECTION OF PIPE AND IN EACH HYDRANT, HYDRANT BRANCH, AND OTHER APPURTENANCE. THE TABLETS SHALL BE ATTACHED BY AN NSF/ANSI 61 APPROVED ADHESIVE. THERE SHALL BE NO ADHESIVE ON THE TABLET, EXCEPT ON THE BROAD SIDE ATTACHED TO THE SURFACE OF THE PIPE. ATTACH ALL OF THE TABLETS INSIDE AND AT THE TOP OF THE MAIN, WITH APPROXIMATELY EQUAL NUMBERS OF TABLETS AT EACH END OF A GIVEN PIPE LENGTH. IF THE TABLETS ARE ATTACHED BEFORE THE PIPE SECTION IS PLACE IN THE TRENCH, THEIR POSITION SHALL BE MARKED ON THE SECTION SO IT CAN BE READILY DETERMINED THAT THE PIPE IS INSTALLED WITH THE TABLETS AT THE TOP.

TABLE 2
NUMBER OF 5-G CALCIUM HYPOCHLORITE TABLETS REQUIRED FOR MINIMUM DOSE OF 25 MG/L*

PIPE DIAMETER (INCHES)	LENGTH OF PIPE SECTION				
	13 OR LESS	18	20	30	40
	NUMBER OF 5-G CALCIUM HYPOCHLORITE TABLETS				
4	1	1	1	1	1
6	1	1	1	2	2
8	1	2	2	3	4
10	2	3	3	4	5
12	3	4	4	6	7
16	4	6	7	10	13

*BASED ON 3.25-G AVAILABLE CHLORINE PER TABLET.

4. AFTER INSTALLATION HAS COMPLETED, THE MAIN SHALL BE FILLED SUCH THAT WATER WILL FLOW AT A VELOCITY NO GREATER THAN 1 FT/SEC IN ORDER TO ENSURE TABLETS DO NOT COME LOOSE FROM THE PIPE. AIR POCKETS SHALL BE ELIMINATED. VALVES SHALL BE POSITIONED SO THAT THE HIGHLY-CHLORINATED WATER WILL NOT FLOW INTO WATER MAINS IN ACTIVE SERVICE. THE HIGHLY CHLORINATED WATER SHALL REMAIN IN THE PIPE FOR AT LEAST 24 HOURS OR 48 HOURS IF THE WATER TEMPERATURE IS LESS THAN 41 °F. A DETECTABLE FREE CHLORINE RESIDUAL (≥0.2 MG/L) SHALL BE FOUND AT EACH SAMPLING POINT AFTER THE 24 OR 48 HOUR PERIOD.

D. FINAL FLUSHING

1. AFTER THE APPLICABLE RETENTION PERIOD, THE HEAVILY CHLORINATED WATER SHOULD NOT REMAIN IN PROLONGED CONTACT WITH THE PIPE IN ORDER TO AVOID DAMAGE. THE HEAVILY CHLORINATED WATER SHALL BE FLUSHED FROM THE MAIN UNTIL CHLORINE MEASUREMENTS SHOW THAT THE CONCENTRATION LEAVING THE MAIN IS NO HIGHER THAN GENERALLY PREVAILING IN THE SYSTEM OR IS ACCEPTABLE FOR DOMESTIC USE.

2. THE HEAVILY CHLORINATED WATER SHALL BE DISPOSED OF TO AN ENVIRONMENT APPROVED BY THE CITY. IF THERE IS ANY QUESTION THAT THE CHLORINATED DISCHARGE WILL CAUSE DAMAGE TO THE ENVIRONMENT, A REDUCING AGENT SHALL BE APPLIED TO THE WATER TO BE DISCHARGED ACCORDING TO AWWA SPECIFICATION C655.

E. BACTERIOLOGICAL TESTS

1. AFTER INSTALLATION AND FINAL FLUSHING, THE CONTRACTOR SHALL CONTACT THE CITY IN ORDER TO PERFORM BACTERIOLOGICAL TESTING ON THE NEWLY INSTALLED WATER MAINS. THE CONTRACTOR SHALL INFORM THE CITY IF ANY TRENCH WATER OR EXCESS DIRT OR DEBRIS HAS ENTERED THE MAIN DURING CONSTRUCTION.

F. REDISINFECTION

1. IF THE INITIAL DISINFECTION FAILS TO PRODUCE SATISFACTORY BACTERIOLOGICAL RESULTS, OR IF OTHER RESULTS INDICATE UNACCEPTABLE WATER QUALITY, THE MAIN MAY BE RE-FLUSHED AND SHALL BE RESAMPLED. IF CHECK SAMPLES FAIL TO PRODUCE ACCEPTABLE RESULTS, THE MAIN SHALL BE RECHLORINATED BY THE CONTINUOUS-FEED METHOD ACCORDING TO AWWA C651 UNTIL SATISFACTORY RESULTS ARE OBTAINED.

5. FIRE HYDRANTS

A. MATERIALS

1. FIRE HYDRANTS SHALL BE A MUELLER TYPE A-423 (OR APPROVED EQUAL), 5 1/4" 3-WAY, 6" MECHANICAL JOINT FIRE HYDRANT.

2. HYDRANT UPPER AND LOWER BARRELS AND BASE SHALL BE MADE OF DUCTILE IRON.

3. HYDRANTS SHALL BE CERTIFIED TO NSF/ANSI STANDARD 61 AND NSF/ANSI STANDARD 372.

4. HYDRANTS SHALL HAVE A TRAFFIC BREAK FEATURE DESIGNED FOR 360° ROTATION OF NOZZLE SECTION AND INCORPORATE THE USE OF A 2-PIECE SQUARE ROD AND SINGLE CAST-IRON ROD COUPLING SECURED WITH STAINLESS STEEL COUPLING PINS.

5. HYDRANTS SHALL HAVE A TRAVEL STOP NUT IN THE TOP OF THE HYDRANT TO LIMIT THE TRAVEL OF THE HYDRANT ROD. HYDRANTS THAT ALLOW THE VALVE BOTTOM TO STOP AGAINST THE SHOE OR EMPLOY A STOP IN THE DRAIN MECHANISM RESULTING IN A BENDING MOMENT IN THE ROD ASSEMBLY ARE NOT ALLOWED.

6. HYDRANTS SHALL INCORPORATE A DRAINING SYSTEM CONSTRUCTED ENTIRELY OF BRONZE AND POSITIVELY ACTIVATED BY THE COMPRESSION OF AN E-COATED STAINLESS STEEL SPRING. HYDRANTS EMPLOYING SLIDING STYLE DRAINS ARE NOT PERMITTED.

7. THERE SHALL BE A MINIMUM OF TWO INTERNAL DRAIN PORTS IN THE HYDRANT SEAT AND FOUR OUTLETS IN THE HYDRANT DRAIN RING DIRECTING WATER TO THE EXTERIOR OF THE HYDRANT.

8. HYDRANT DRAINS SHALL CLOSE COMPLETELY AFTER NO MORE THAN 3 TURN OF THE OPERATING NUT.

9. FIRE HYDRANT SHALL HAVE TWO 2 1/2" HOSE NOZZLES WITH NST THREADS AND ONE 5" STORZ PUMPER NOZZLE.

10. ALL PUMPER AND HOSE NOZZLES SHALL BE RETAINED BY A SINGLE-PIECE THREADED DUCTILE IRON RETAINING COLLAR. THREADED-IN NOZZLES AND NOZZLES USING SET SCREWS OR WEDGE PINS ARE NOT ALLOWED.

11. THE OPERATION NUT AND NOZZLE CAP NUTS SHALL BE 1 1/2" NST PENTAGON, AND SHALL OPEN IN THE COUNTER CLOCKWISE DIRECTION. THE OPERATION NUT SHALL BE SUPPLIED WITH A GREASE ZERK FOR LUBRICATION PURPOSES.

12. HYDRANTS SHALL BE DRAINING AND FEDERAL SPEC RED #1664 IN COLOR.

13. ALL BOLTING ABOVE AND BELOW GRADE SHALL BE TYPE 304 STAINLESS STEEL.

14. FIRE HYDRANT INLET SHALL INCORPORATE A STAB-FIT DESIGN REQUIRING THE USE OF ONLY ONE TYPE 304 STAINLESS STEEL FASTENER. THE ASSEMBLY OF FLANGE OR MECHANICAL JOINT RESTRAINERS USING MULTIPLE FASTENERS OR WEDGE BOLTS IS NOT PERMITTED.

15. RESTRAINT ACCESSORIES SHALL BE FACTORY INSTALLED.

B. INSTALLATION

1. PRIOR TO INSTALLATION, ALL HYDRANTS SHALL BE INSPECTED FOR DIRECTION OF OPENING, NOZZLE THREADING, OPERATING-NUT AND CAP-NUT DIMENSIONS, TIGHTNESS OF PRESSURE-CONTAINING BOLTING, CLEANLINESS OF INLET ELBOW, HANDLING DAMAGE, AND CRACKS. DEFECTIVE HYDRANTS SHALL BE MARKED AND HELD FOR FINAL DISPOSITION.

2. ALL HYDRANTS SHALL STAND PLUMB AND HAVE THEIR NOZZLES PARALLEL WITH OR AT RIGHT ANGLES TO THE CURB. PUMPER NOZZLES SHALL FACE THE CURB.

3. HYDRANTS SHALL BE SET AT ESTABLISHED GRADE WITH THE LOWEST NOZZLE AT LEAST 12 INCHES ABOVE GROUND OR AS REQUIRED BY THE CITY.

4. TRAFFIC MODEL HYDRANTS SHALL BE INSTALLED SO THAT THE BREAKAWAY FLANGE IS NOT LESS THAN 2 INCHES NOR NO MORE THAN 4 INCHES ABOVE ESTABLISHED GRADE.

5. EACH HYDRANT SHALL BE CONNECTED TO THE MAIN WITH A 6 INCH DIAMETER BRANCH CONTROLLED BY AN INDEPENDENT RESILIENT SEAT GATE VALVE. THE VALVE SHALL BE RESTRAINED TO ALLOW SHUT OFF WHEN THE HYDRANT IS TO BE REMOVED.

6. WHEN A DRY BARREL HYDRANT IS SET IN SOIL THAT IS IMPERVIOUS OR PAVEMENT, DRAINAGE SHALL BE PROVIDED AT THE BASE OF THE HYDRANT BY PLACING COARSE GRAVEL OR CRUSHED STONE FROM THE BOTTOM OF THE TRENCH TO AT LEAST 6 INCHES ABOVE THE DRAIN-PORT OPENING AND TO A DISTANCE OF 1 FOOT AROUND THE ELBOW.

7. HYDRANT DRAINS SHALL NOT BE CONNECTED TO SANITARY OR STORM SEWER.

8. WHERE GROUND WATER RISES ABOVE THE DRAIN PORT, WHEN THE HYDRANT IS LOCATED WITHIN 8 FEET OF A SANITARY SEWER MAIN, OR WHERE DRAINAGE IS NOT PERMITTED, THE DRAIN PORT SHALL BE PLUGGED AND WATER PUMPED FROM THE HYDRANT WHERE FREEZING MAY OCCUR.

9. THE BOWL OF EACH HYDRANT SHALL BE WELL BRACED AGAINST A SUFFICIENT AREA OF UNEXCAVATED EARTH AT THE END OF THE TRENCH WITH CONCRETE THRUST BLOCKS OR OTHER SPECIFIED BLOCKING MATERIALS, OR IT SHALL BE TIED TO THE PIPE WITH SUITABLE METAL TIE RODS, CLAMPS, OR RESTRAINED JOINTS.

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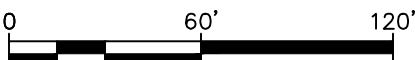
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CONSTRUCTION DOCUMENTS FOR
AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER
25-221
WATER MAIN
NOTES
DRAWING NUMBER
C005

Page 29 of 41



PROJECT NUMBER
25-221
OVERALL EXISTING CONDITIONS
DRAWING NUMBER
C101



ABBREVIATIONS

EX.	EXISTING
MH	MANHOLE

1. THE ABOVE LISTED DEED REFERENCES WERE USED AS A BASIS FOR CARRYING OUT THE WORK.
2. NO EVIDENCE OF OCCUPATION EXISTS ALONG PROPERTY LINES INDICATED BY SOLID LINES.
3. ALL MONUMENTS FOUND OR SET ARE IN GOOD CONDITION UNLESS OTHERWISE INDICATED.
4. THE SIZE AND/OR LOCATION OF UNDERGROUND UTILITIES WAS PROVIDED BY THE UTILITY COMPANIES AND IS NOT WARRANTED CORRECT OR COMPLETE BY THE SURVEYOR.
5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THE PLANS OR FIELD CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
6. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING AROUND EXISTING UTILITIES. CONTRACTOR TO COORDINATE ANY RELOCATION OR DISTURBANCE WITH THE RESPECTIVE UTILITY OWNER.
7. 1. ALL UTILITIES SHALL BE PROTECTED AND REMAIN IN PLACE UNDISTURBED UNLESS SPECIFICALLY LISTED FOR ABANDONMENT OR REMOVAL.



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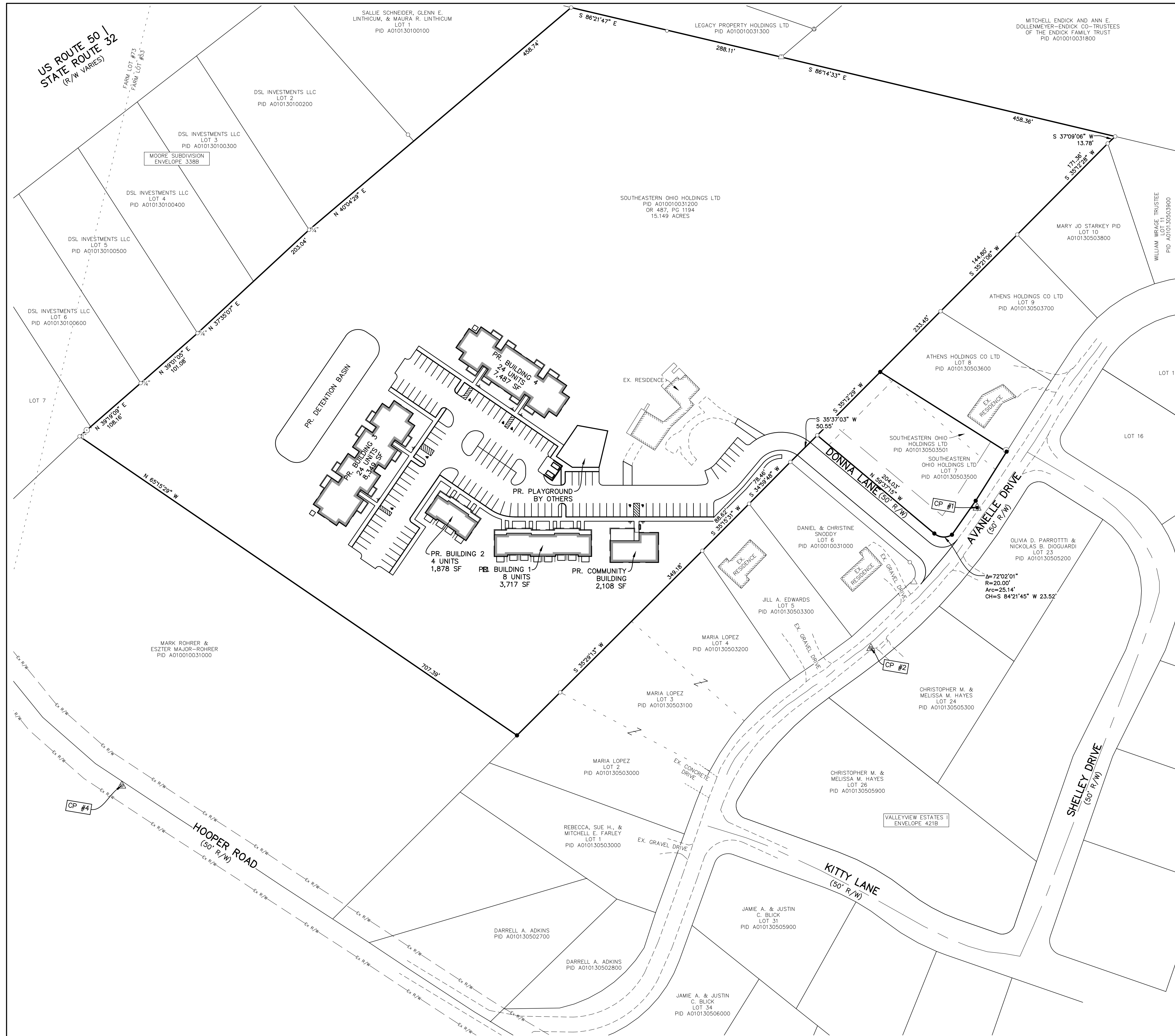
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PROJECT NUMBER
25-221
EXISTING CONDITIONS & DEMOLITION PLAN
DRAWING NUMBER
C102



REVISIONS		

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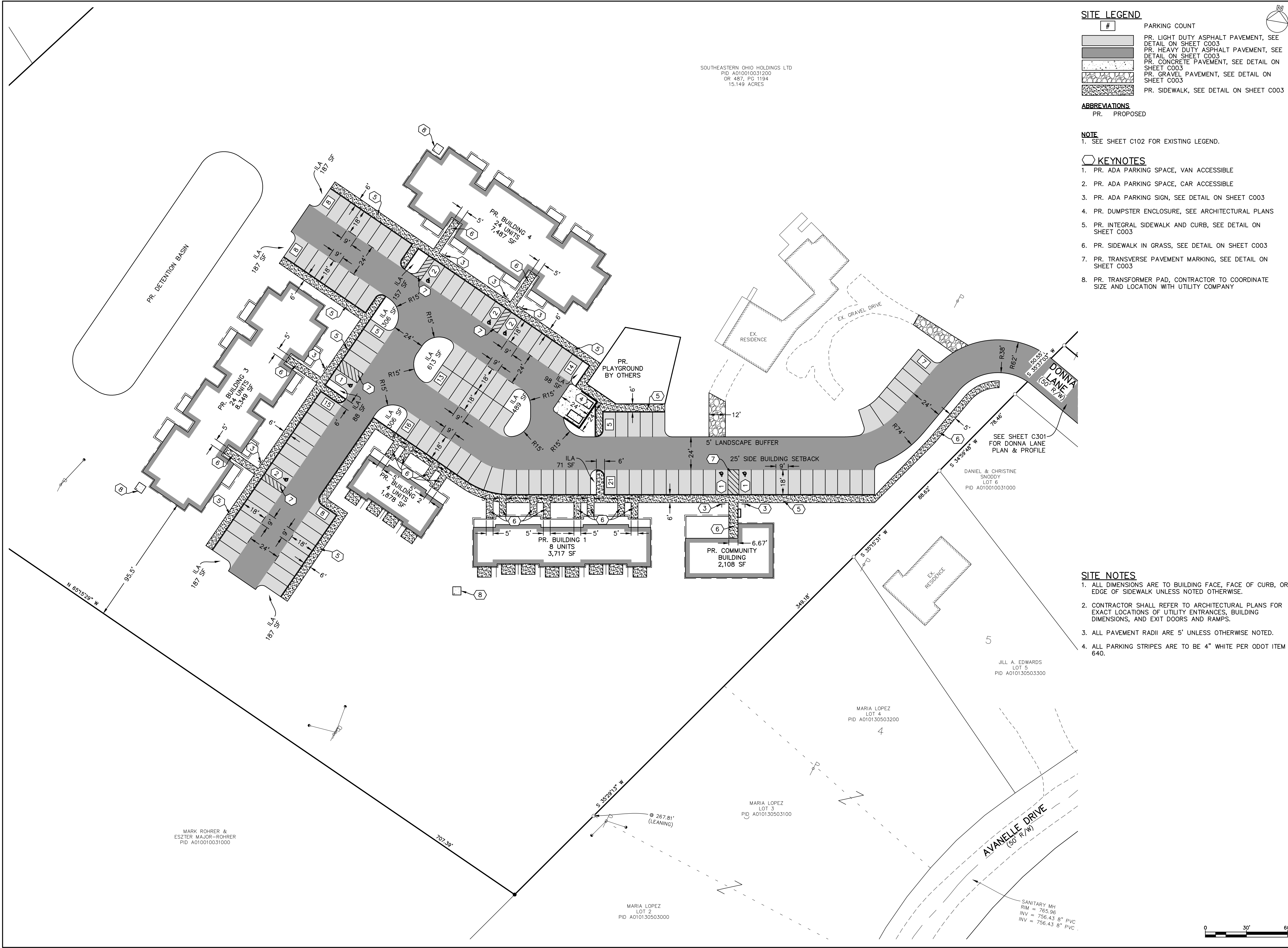
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CONSTRUCTION DOCUMENTS FOR
AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER
25-221
OVERALL SITE PLAN
DRAWING NUMBER
C201



SOUTHEASTERN OHIO HOLDINGS LTD
PID A010010031200
OR 487, PG 1194
15.149 ACRES

SITE LEGEND

#	PARKING COUNT
1	PR. LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL ON SHEET C003
2	PR. HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL ON SHEET C003
3	PR. CONCRETE PAVEMENT, SEE DETAIL ON SHEET C003
4	PR. GRAVEL PAVEMENT, SEE DETAIL ON SHEET C003
5	PR. SIDEWALK, SEE DETAIL ON SHEET C003

ABBREVIATIONS

PR. PROPOSED

NOTE

1. SEE SHEET C102 FOR EXISTING LEGEND.

KEYNOTES

- PR. ADA PARKING SPACE, VAN ACCESSIBLE
- PR. ADA PARKING SPACE, CAR ACCESSIBLE
- PR. ADA PARKING SIGN, SEE DETAIL ON SHEET C003
- PR. DUMPSTER ENCLOSURE, SEE ARCHITECTURAL PLANS
- PR. INTEGRAL SIDEWALK AND CURB, SEE DETAIL ON SHEET C003
- PR. SIDEWALK IN GRASS, SEE DETAIL ON SHEET C003
- PR. TRANSVERSE PAVEMENT MARKING, SEE DETAIL ON SHEET C003
- PR. TRANSFORMER PAD, CONTRACTOR TO COORDINATE SIZE AND LOCATION WITH UTILITY COMPANY

SITE NOTES

- ALL DIMENSIONS ARE TO BUILDING FACE, FACE OF CURB, OR EDGE OF SIDEWALK UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF UTILITY ENTRANCES, BUILDING DIMENSIONS, AND EXIT DOORS AND RAMPS.
- ALL PAVEMENT RADII ARE 5' UNLESS OTHERWISE NOTED.
- ALL PARKING STRIPES ARE TO BE 4" WHITE PER ODOT ITEM 640.

REVISIONS

#	DESCRIPTION

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CONSTRUCTION DOCUMENTS FOR
AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER

25-221

SITE PLAN

DRAWING NUMBER

C202

MARK ROHRER &
ESZTER MAJOR-ROHRER
PID A010010031000

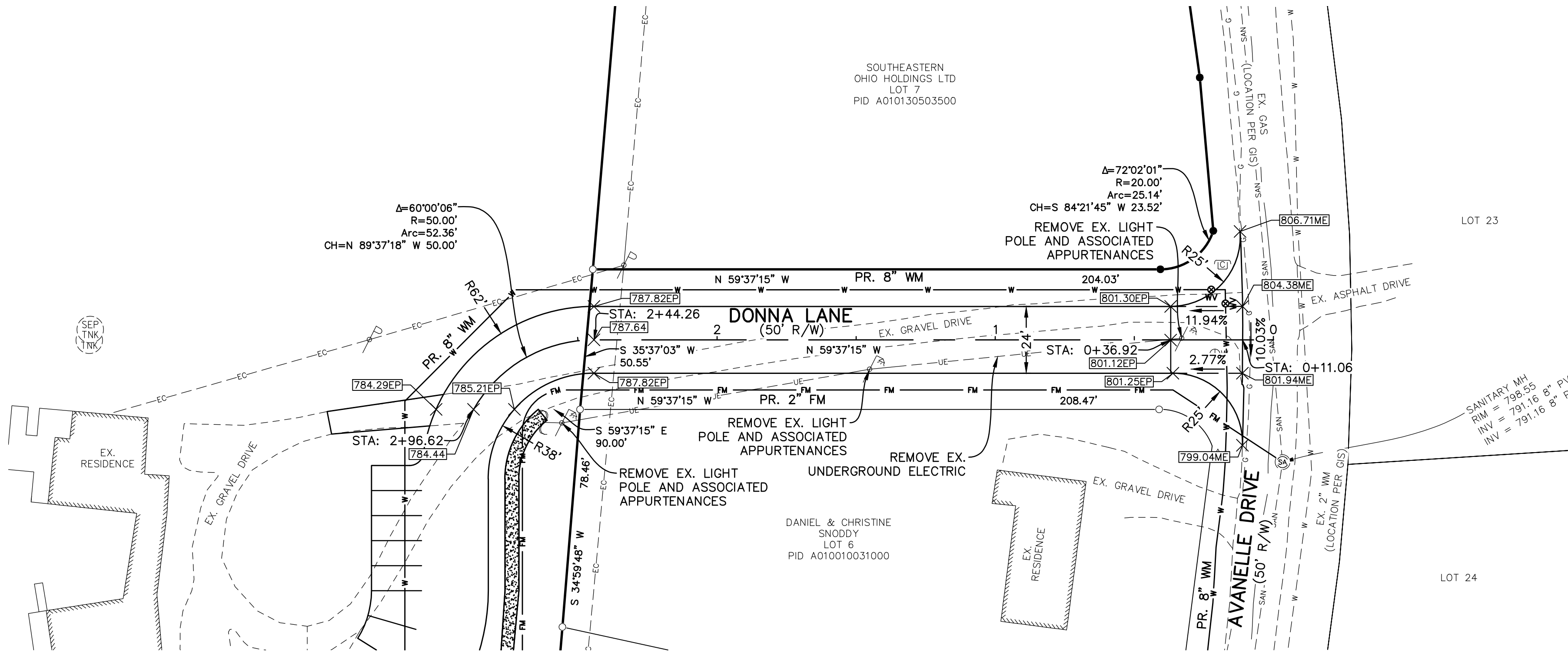
MARIA LOPEZ
LOT 2
PID A010130503000

MARIA LOPEZ
LOT 3
PID A010130503100

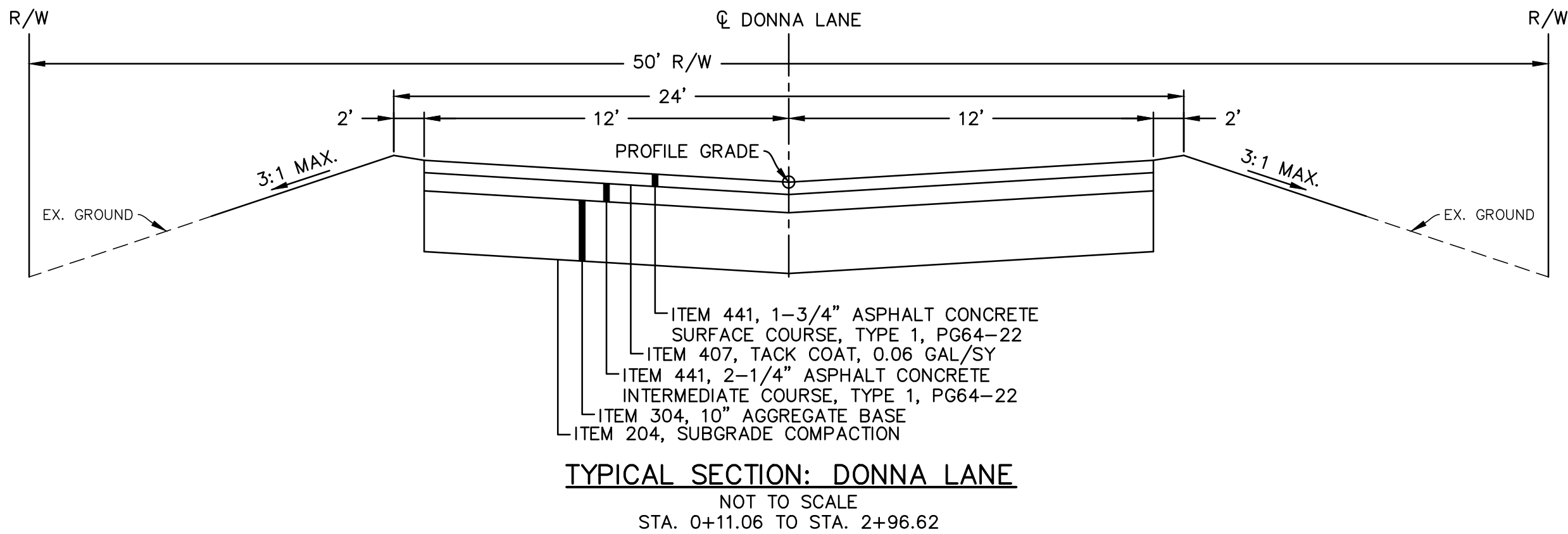
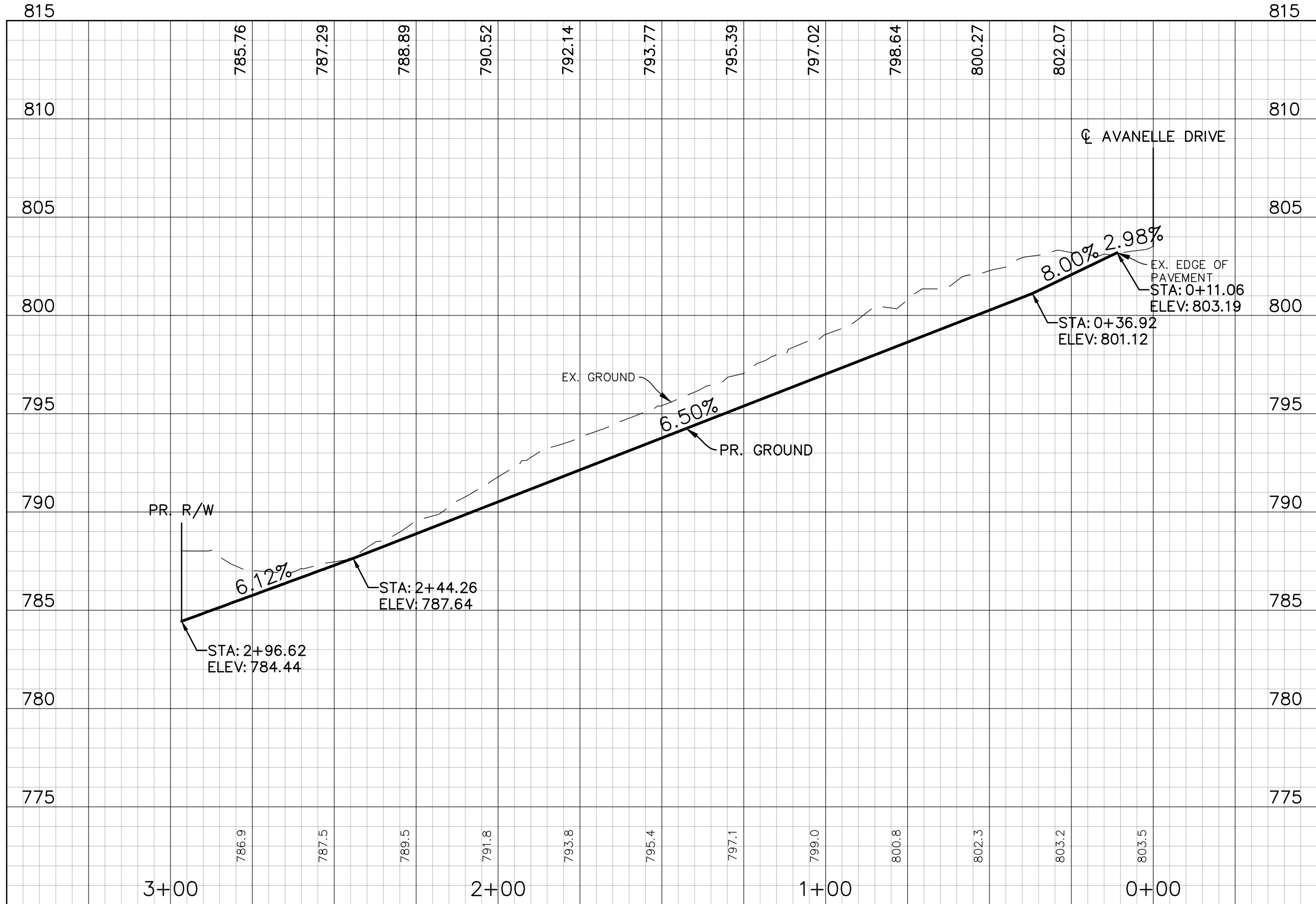
MARIA LOPEZ
LOT 4
PID A010130503200

JILL A. EDWARDS
LOT 5
PID A010130503300

SANITARY MH
RIM = 765.96
INV = 756.43 8" PVC
INV = 756.43 8" PVC



- LEGEND**
- 5/8" IRON PIN (FOUND) UNLESS NOTED OTHERWISE
 - 5/8" IRON PIN (SET) WITH PLASTIC CAP STAMPED "MCCARTY ASSOCIATES"
 - EX. LIGHT POLE
 - EX. UTILITY POLE
 - EX. GUY
 - EX. SANITARY MANHOLE
 - EX. PROPERTY LINE
 - EC --- EX. OVERHEAD ELECTRIC AND COMMUNICATIONS
 - G --- EX. GAS
 - W --- EX. WATER MAIN
 - SAN --- EX. SANITARY SEWER
 - PR. LIMITS OF DISTURBANCE
 - × [760.00] PR. SPOT ELEVATION
- ABBREVIATIONS**
- EP EDGE OF PAVEMENT
 - ME MATCH EXISTING



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CONSTRUCTION DOCUMENTS FOR
AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER
25-221

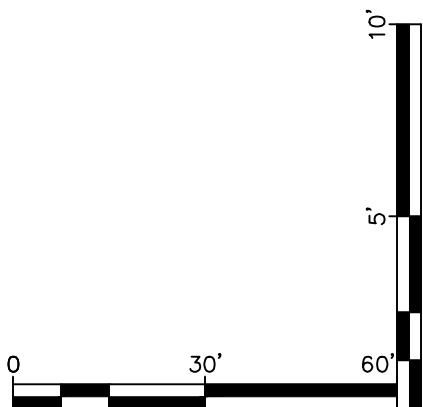
DRAWING NUMBER
C301

PROJECT NUMBER
25-221

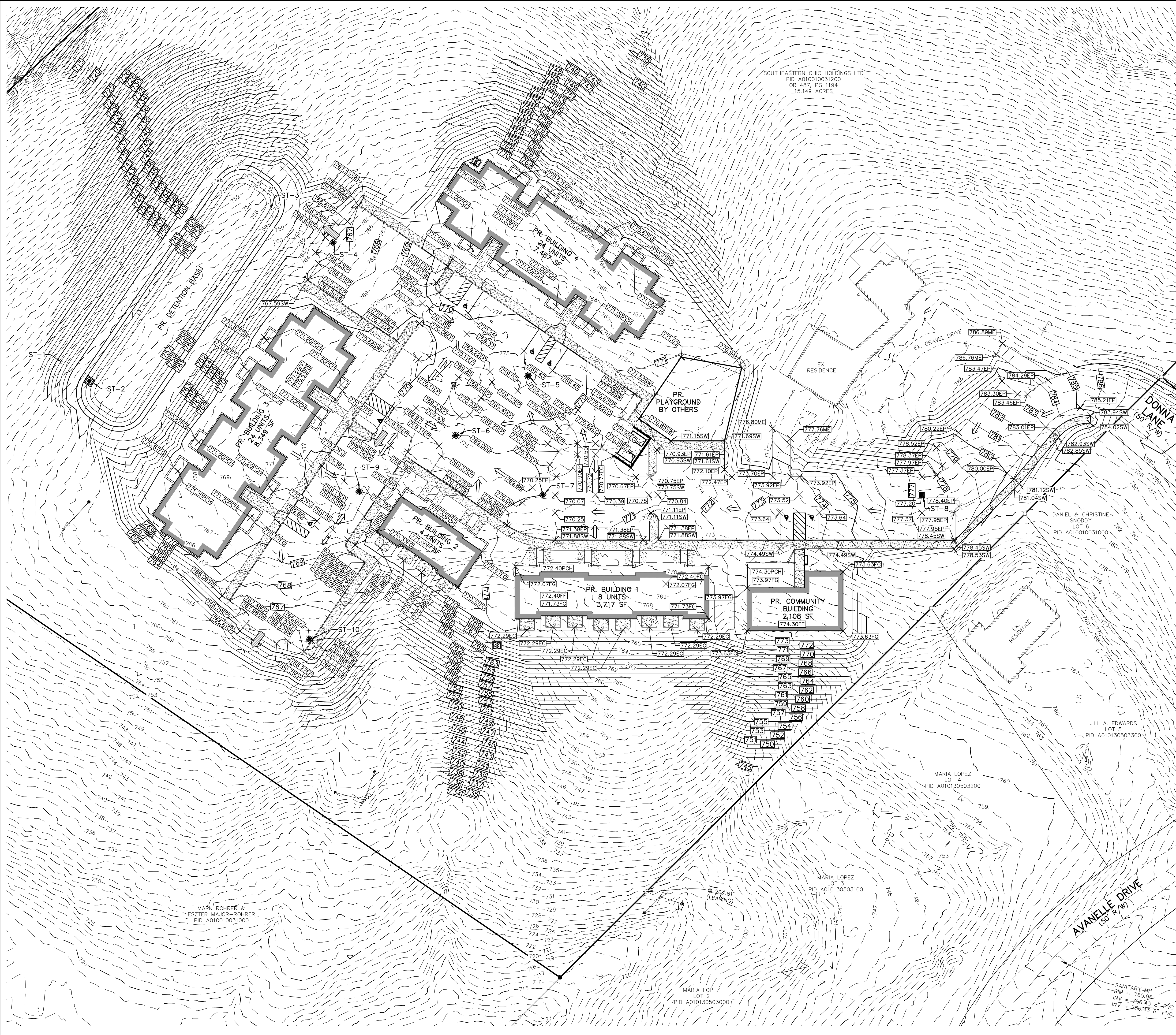
DRAWING NUMBER
C301

PROJECT NUMBER
25-221

DRAWING NUMBER
C301



[illegible]



GRADING LEGEND

ST-1	PR. STORM STRUCTURE NUMBER
▣	PR. CATCH BASIN
→	PR. RUNOFF FLOW
▢	PR. MAJOR FLOOD ROUTE
× 760.00	PR. SPOT ELEVATION
760	PR. CONTOUR
—	PR. STORM SEWER
- - -	PR. DITCH/SWALE
●	PR. LIMITS OF DISTURBANCE

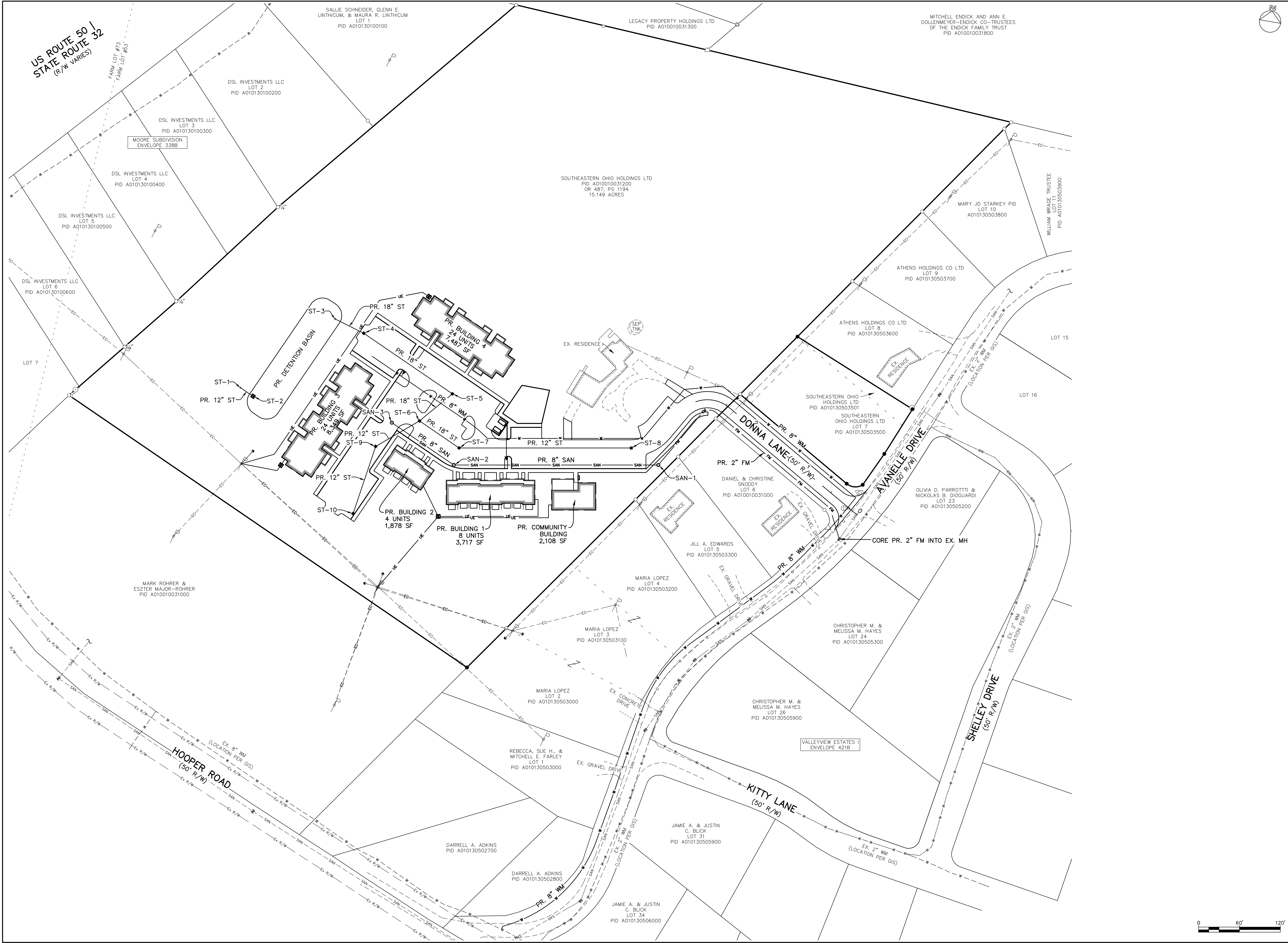
ABBREVIATIONS

FF	FINISH FLOOR	SW	SIDEWALK
FG	FINISH GRADE	PCH	PORCH
EP	EDGE OF PAVEMENT	ME	MATCH EXISTING
EC	EDGE OF CONCRETE	G	GRATE

- NOTE**
- SEE SHEET C102 FOR EXISTING LEGEND.
 - SEE SHEET C202 FOR SITE LEGEND.
- GRADING PLAN NOTES**
- CONTRACTOR TO VERIFY EXISTING TOPOGRAPHY, STRUCTURES, AND UTILITIES ON-SITE AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO START OF WORK
 - THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN ESTABLISHING ALL GRADES IN THE VICINITY OF ADA ACCESS AREAS. ADA ACCESS AREAS SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL CODES.
 - THE CONTRACTOR SHALL PROVIDE FOR POSITIVE DRAINAGE IN ALL AREAS. PAVEMENT SHALL BE TESTED FOR ANY PONDING CONDITIONS FOLLOWING CONSTRUCTION.
 - CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING AROUND EXISTING UTILITIES. CONTRACTOR TO COORDINATE ANY RELOCATION OR DISTURBANCE WITH THE RESPECTIVE UTILITY OWNER.

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CONSTRUCTION DOCUMENTS FOR AVANELLE CROSSING 6251 AVANELLE DRIVE ATHENS, OHIO 45701 ATHENS TOWNSHIP, ATHENS COUNTY	
PROJECT NUMBER	25-221
GRADING PLAN	
DRAWING NUMBER	C402

L:\2025\25-221 Street Development\Avanelle Crossing Housing Development\Avanelle Crossing Overall Utility Plan.dwg, Overall Utility Plan.dwg, 9/19/2025 11:44:41 AM, garret, DWG To PDF.pc3



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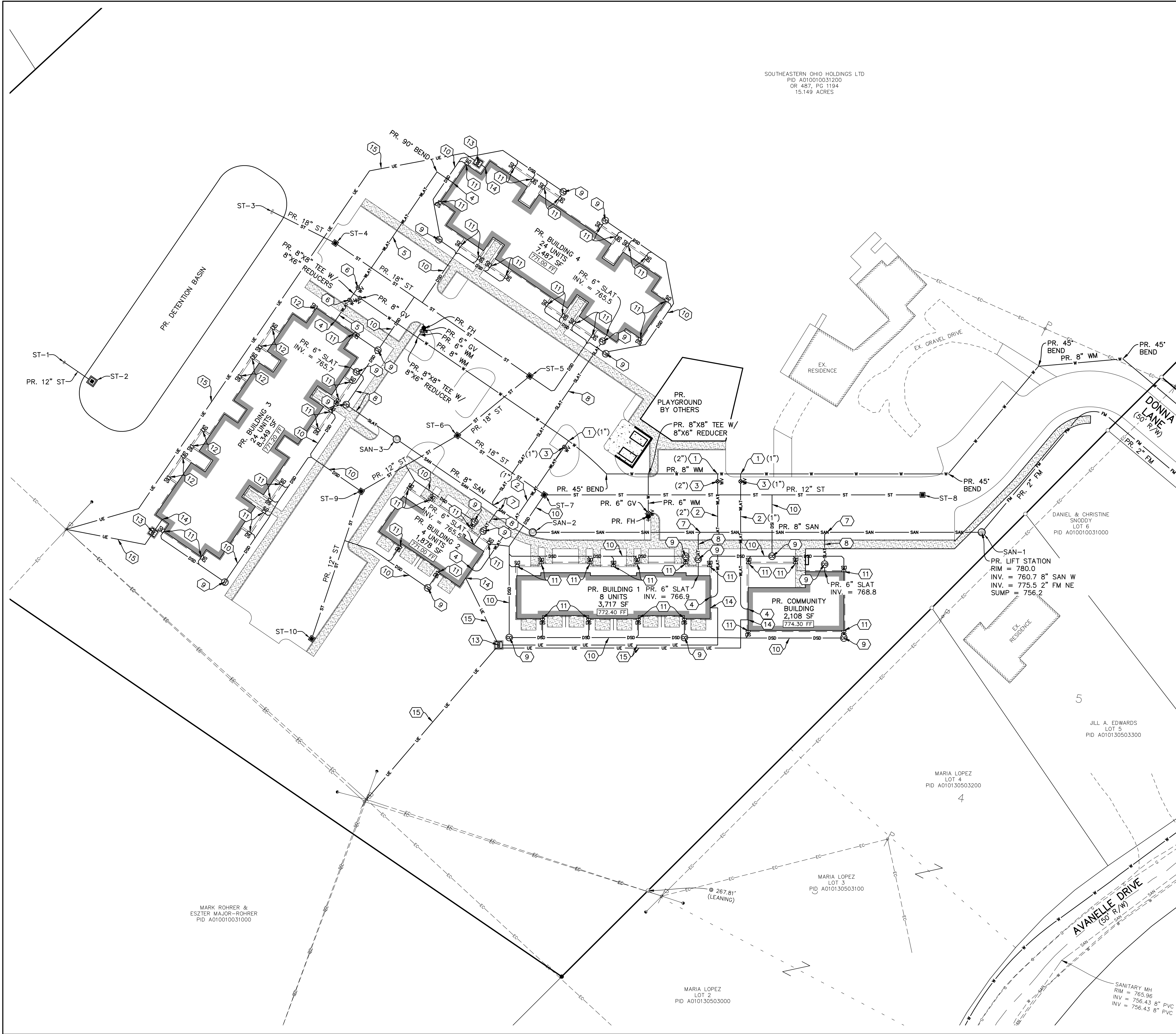
CONSTRUCTION DOCUMENTS FOR
AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER
25-221

OVERALL UTILITY
PLAN

DRAWING NUMBER
C501



SOUTHEASTERN OHIO HOLDINGS LTD
PID A010010031200
OR 487, PG 1194
15.149 ACRES

UTILITY LEGEND

- PR. FIRE HYDRANT
- PR. WATER VALVE
- SAN-1 SANITARY STRUCTURE NUMBER
- PR. MANHOLE
- PR. CLEANOUT
- ST-1 PR. STORM STRUCTURE NUMBER
- PR. CATCH BASIN
- UE PR. UNDERGROUND ELECTRIC
- W PR. WATER MAIN/LATERAL
- SAN PR. SANITARY SEWER
- SLAT PR. SANITARY LATERAL
- ST PR. STORM SEWER
- DSD PR. DOWNSPOUT DRAIN

ABBREVIATIONS

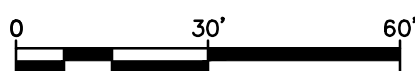
- WLAT WATER LATERAL
- SLAT SANITARY LATERAL
- DSD DOWNSPOUT DRAIN
- FH FIRE HYDRANT
- GV GATE VALVE

KEYNOTES

- PR. WATER TAP, SIZE NOTED
- PR. WATER LATERAL, SIZE NOTED
- PR. CURB STOP AND CURB BOX, SIZE NOTED
- METER TO BE PROVIDED WITHIN THE BUILDING, SEE MEP PLANS
- PR. 6" WATER LATERAL
- PR. 6" GATE VALVE
- PR. 8"x6" SANITARY WYE CONNECTION
- PR. 6" SDR-35 SANITARY LATERAL, MAINTAIN MINIMUM 2.08% SLOPE
- PR. CLEANOUT, SEE DETAIL ON SHEET C003
- PR. 6" DOWNSPOUT DRAIN, MAINTAIN MINIMUM 1.04% SLOPE
- PR. DOWNSPOUT WITH ADAPTER, SEE DETAIL ON SHEET C003
- PR. DOWNSPOUT WITH SPLASH BLOCK
- PR. PAD MOUNTED TRANSFORMER, CONTRACTOR TO COORDINATE SIZE AND LOCATION WITH UTILITY COMPANY
- PR. ELECTRIC METER BANK, SEE MEP PLANS FOR DETAILS
- PR. ELECTRIC SERVICE IN CONDUITS. CONTRACTOR TO COORDINATE CONDUIT SIZE WITH MEP PLANS AND UTILITY COMPANY. LOCATION SHOWN ON THESE PLANS IS SCHEMATIC ONLY

UTILITY NOTES

- CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING AROUND EXISTING UTILITIES. CONTRACTOR TO COORDINATE ANY RELOCATION OR DISTURBANCE WITH THE RESPECTIVE UTILITY OWNER.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THE PLANS OR FIELD CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL CALL THE OHIO UTILITIES PROTECTION SERVICES, OUPS, AT 811 OR 1-800-362-2764 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS NOT REPRESENTED, WARRANTED, OR GUARANTEED TO BE COMPLETE OR ACCURATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY LOCATE AND VERIFY IN THE FIELD, ALL UTILITY LOCATIONS AND ELEVATIONS, WHETHER SHOWN ON THE PLAN OR NOT, PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL SUPPORT, PROTECT, AND RESTORE ALL EXISTING UTILITIES AND APPURTENANCES TO THE SATISFACTION OF THE UTILITY OWNER.
- SANITARY SEWERS AND LATERALS AND STORM SEWERS SHALL MAINTAIN A MINIMUM 10' HORIZONTAL AND A MINIMUM 1'-6" VERTICAL SEPARATION (OUTSIDE OF PIPE TO OUTSIDE OF PIPE) FROM WATER MAINS AND SERVICES. OTHER UTILITIES, INCLUDING ELECTRIC, GAS, AND TELECOMMUNICATION, SHALL MAINTAIN A MINIMUM 3' HORIZONTAL AND A MINIMUM 1' VERTICAL (OUTSIDE OF PIPE TO OUTSIDE OF PIPE) FROM WATER MAINS AND SERVICES, SANITARY SEWERS AND LATERALS, AND/OR STORM SEWERS. ADDITIONAL PROTECTION MEASURES INCLUDING, BUT NOT LIMITED TO, CONCRETE ENCASUREMENT MAY BE REQUIRED IF THE INDICATED CLEARANCES CAN NOT BE MET.



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CONSTRUCTION DOCUMENTS FOR
AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER

25-221

UTILITY PLAN

DRAWING NUMBER

C502



SWPPP LEGEND

- ST-1 PR. CATCH BASIN
- 760 PR. STORM STRUCTURE NUMBER
- 760 PR. CONTOUR
- ST PR. STORM SEWER
- LIMITS OF DISTURBANCE
- INLET PROTECTION
- CONCRETE WASHOUT
- SILT FENCE
- CONSTRUCTION ENTRANCE
- SEEDING AND MULCHING
- AREA FOR STORAGE OR DISPOSAL OF SOLID, SANITARY, OR TOXIC WASTES (INCLUDING DUMPSTER AREAS) AND VEHICLE FUELING. LOCATION IS APPROXIMATE. CONTRACTOR TO DETERMINE FINAL PLACEMENT.

KEYNOTES

- DANDY BAG INLET PROTECTION, SEE DETAIL ON SHEET C603
- CONCRETE WASHOUT, CONTRACTOR TO DETERMINE FINAL PLACEMENT. SEE DETAIL ON SHEET C602
- CONSTRUCTION ENTRANCE, SEE DETAIL ON SHEET C602

STOCKPILE NOTE

ANY WASTE OR EXCAVATED MATERIAL STORED ON SITE FOR MORE THAN 2 DAYS SHALL BE PROTECTED BY PERIMETER SILT FENCE. LOCATION OF STOCKPILE CAN BE PLACED ANYWHERE ON PROPERTY AS LONG AS ITS PROTECTED BY PERIMETER SILT FENCE.

MAINTENANCE AND INSPECTION

ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. THE CONTRACTOR SHALL DESIGNATE A QUALIFIED PERSON WHO SHALL INSPECT ALL SEDIMENT CONTROLS ON THE SITE. THE SITE SHOULD BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. EACH INSPECTION SHALL RESULT IN A REPORT INDICATING THE NAME OF THE SITE, THE CONDITION OF EROSION CONTROL MEASURES, WHETHER SAID MEASURES ARE FUNCTIONING AS INTENDED, NAME AND QUALIFICATIONS OF INSPECTING PERSONNEL. COPIES OF THE INSPECTION REPORT SHALL BE AVAILABLE TO OWNER, ENGINEER, AND PUBLIC AUTHORITIES.

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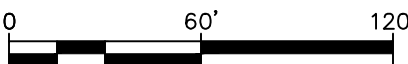
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CONSTRUCTION DOCUMENTS FOR
AVANELE CROSSING

6251 AVANELE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER
25-221
STORMWATER POLLUTION PREVENTION PLAN
DRAWING NUMBER
C601



SITE DESCRIPTION

PROJECT NAME AND LOCATION

AVANELLE CROSSING
6251 AVANELLE DRIVE
ATHENS, OHIO 45701
LATITUDE: 39.345555
LONGITUDE: -82.120888

OWNER/DEVELOPER

SUNSET DEVELOPMENT
692 NORTH HIGH STREET, SUITE 204
COLUMBUS, OHIO 43215
CONTACT: JAMES HUNLEY
PHONE: (614) 220-8575
EMAIL: JHUNLEY@SUNSETDEV.COM

SITE CONTACT

CONTACT: JAMES HUNLEY
PHONE: (614) 220-8575
EMAIL: JHUNLEY@SUNSETDEV.COM

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF TWO MULTI-FAMILY BUILDINGS, TWO TOWNHOUSE BUILDINGS, AND A COMMUNITY BUILDING, INCLUDING ASSOCIATED PARKING, DRIVES, UTILITIES, AND STORMWATER MANAGEMENT..
SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING; PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION AND EMBANKMENT, STORM SEWER, UTILITIES, ASPHALT AND CONCRETE PAVING AND FINAL PLANTING AND SEEDING.

EXISTING SITE DESCRIPTION

THE SUBJECT PROPERTY CONTAINS AN EXISTING SINGLE-FAMILY HOUSE WITH WOODED AREAS.

SITE AREA

THE SITE IS APPROXIMATELY 4.05 ACRES OF WHICH 4.05 ACRES WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES.

RUNOFF COEFFICIENT

PRE-DEVELOPMENT RUNOFF COEFFICIENT - 0.07
POST-DEVELOPMENT RUNOFF COEFFICIENT - 0.44

SOIL TYPES

GUC - GUERNSEY-UPSHUR COMPLEX, 8 TO 15 PERCENT SLOPES, HSG C
GuD - GUERNSEY-UPSHUR COMPLEX, 15 TO 25 PERCENT SLOPES, HSG C
Knl1A1F - KINNICK-LINDSIDE SILT LOAMS, 0 TO 3 PERCENT SLOPES, HSG B
UpC - UPSHUR SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES, HSG C
WmE - WESTMORELAND-UPSHUR COMPLEX, 25 TO 40 PERCENT SLOPES, HSG B

SEQUENCE OF CONSTRUCTION OPERATIONS

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. ESTABLISH A CONSTRUCTION ENTRANCE/EXIT
2. INSTALL PERIMETER CONTROLS
3. CLEAR AND GRUB
4. FULL SITE GRADING
5. PILE TOPSOIL WITHIN SILT FENCE PERIMETER
6. INSTALL DETENTION BASIN AND OUTLET CONTROL STRUCTURE
7. INSTALL PERMANENT STORM SEWER AND INLET PROTECTION
8. INSTALL REMAINING UTILITIES
9. CONSTRUCT CURBS, PAVEMENT, SIDEWALKS, AND BUILDING
10. FINAL GRADING AND INSTALL PERMANENT SEEDING
11. REMOVE PERIMETER CONTROLS
12. INSPECT AND REMOVE ANY ACCUMULATED SEDIMENT FROM THE BASIN.

NAME OF RECEIVING SURFACE WATER BODY

UNNAMED TRIBUTARY TO MARGARET CREEK

GENERAL NOTES

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (2006).

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES.

THE CONTRACTOR SHALL USE EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT MOVEMENT INTO AREAS DESIGNATED AS WETLANDS.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ADDITIONAL EROSION AND SEDIMENT CONTROL BMP'S MAY BE REQUIRED AS IDENTIFIED BY THE SWPPP INSPECTOR.

SWPPP INSPECTOR: OWNER/CONTRACTOR SHALL SUBMIT INSPECTOR NAME AND RESUME

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES

TEMPORARY STABILIZATION: TOP SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR OVER 14 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 7 DAYS OR WITHIN 2 DAYS FOR AREAS WITHIN 50 FEET OF A STREAM. 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 7 LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OR WITHIN 2 DAYS FOR AREAS WITHIN 50 FEET OF A STREAM.

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 WILL BE PROVIDED THROUGH CATCH BASINS ROUTED TO AN EXTENDED WET DETENTION BASIN. THE BASIN UTILIZES AN OUTLET STRUCTURE TO RELEASE THE STORMWATER TO THE UNNAMED TRIBUTARY ULTIMATELY INTO PAINT CREEK.

WATER QUALITY VOLUME	
REQUIRED	PROVIDED
TBD	TBD

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 ON-SITE. 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/AULIN.

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 PRIOR TO GRADING FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS 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 WITHIN 2 DAYS IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS IF THE AREA IS MORE THAN 50 FEET FROM A STREAM. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

CONSTRUCTION ENTRANCE	DANDY BAG
CONCRETE WASHOUT	TEMPORARY SEEDING & MULCHING
SILT FENCE	PERMANENT SEEDING & MULCHING
FILTER SOCK	DANDY DEWATERING BAG
TEMPORARY SEDIMENT BASIN	
FILTER FABRIC INLET PROTECTION	

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: THESE GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT.
1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
 2. ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
 3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
 4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
 5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
 6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
 7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.

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

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. 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 ON-SITE:

PETROLEUM PRODUCTS: ALL ON-SITE 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 ON-SITE 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.

DUST CONTROL

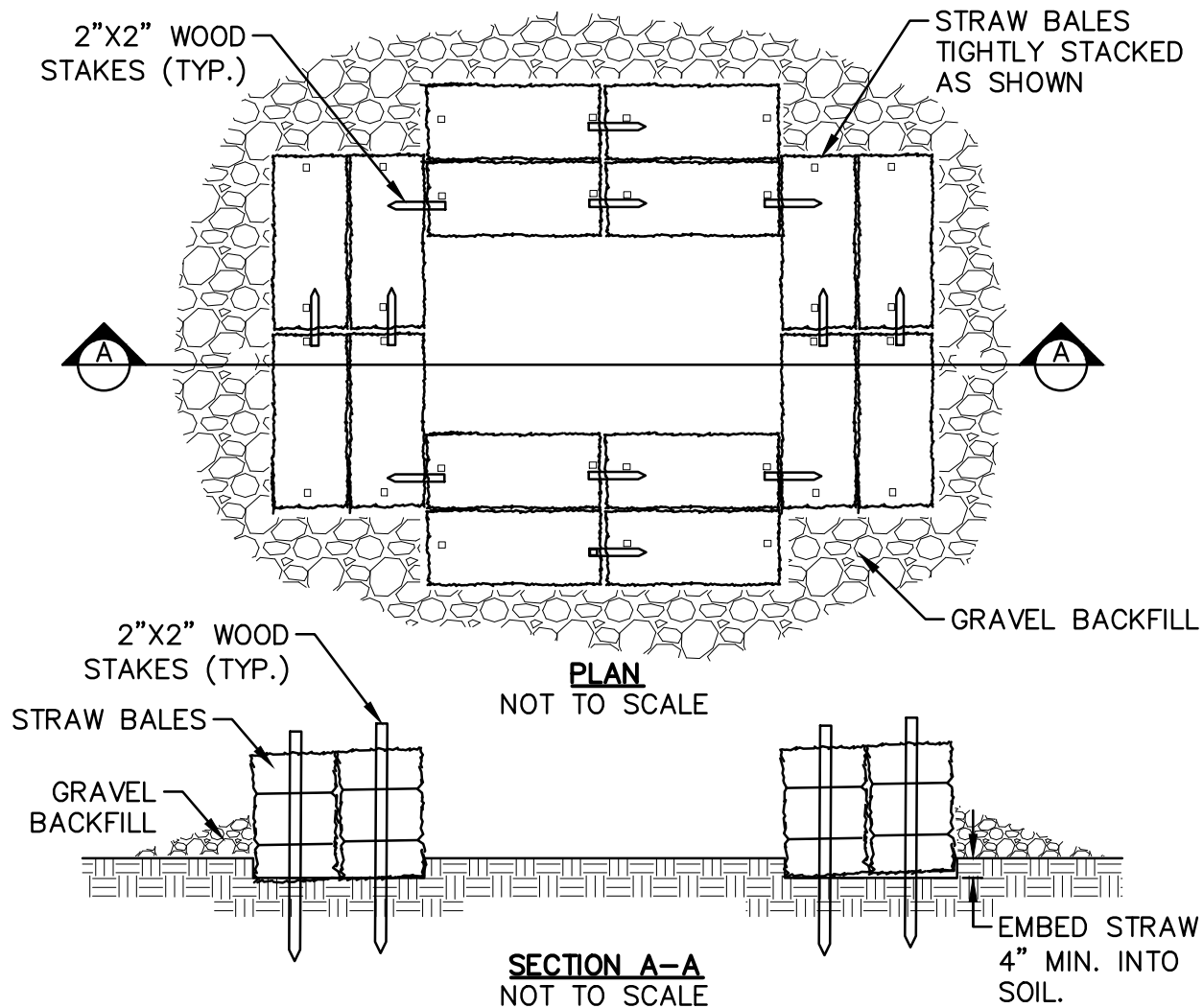
DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ON-SITE:

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. **SPRAY-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



CONSTRUCTION SPECIFICATIONS:

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 ABUTING. 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.

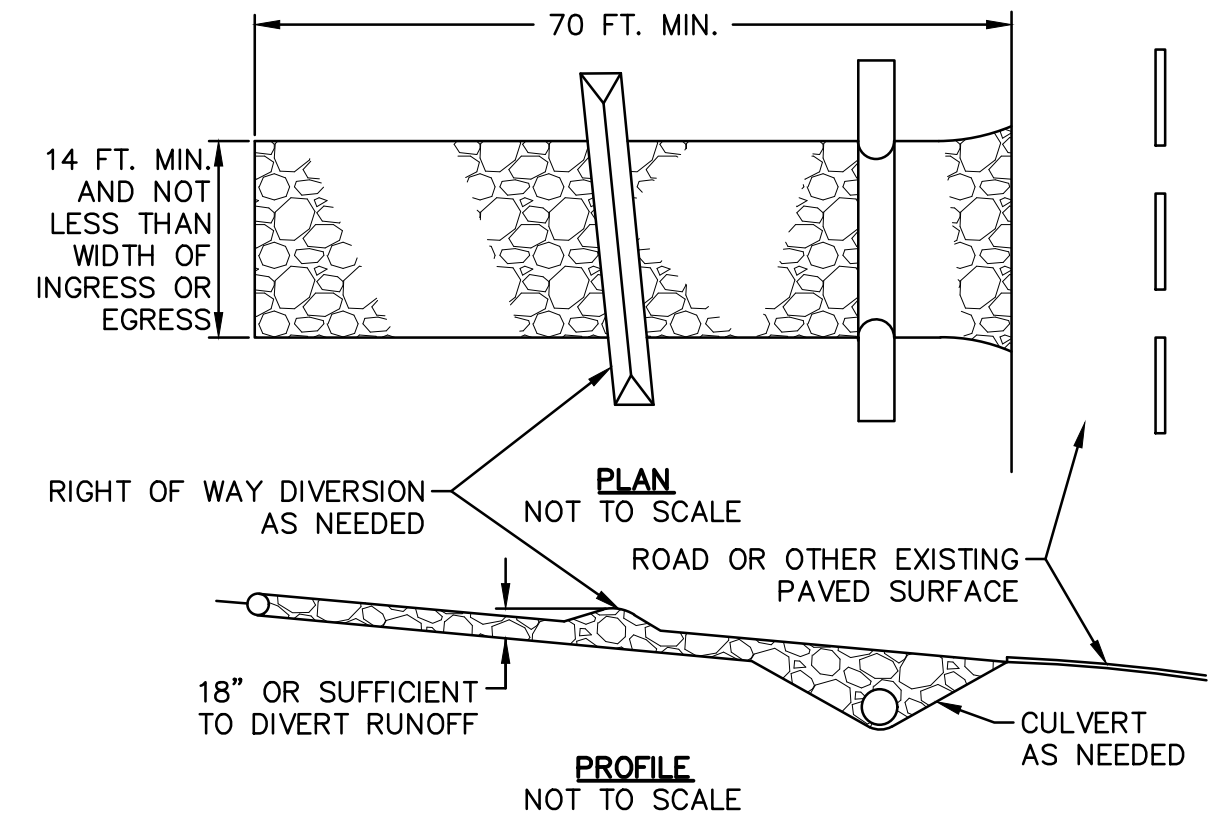
SPILL CONTROL PRACTICES

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 ON-SITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, 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. THEY 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 ON-SITE.

CONSTRUCTION ENTRANCE

A CONSTRUCTION ENTRANCE IS A STABILIZED PAD OF STONE UNDERLAIN WITH GEOTEXTILE AND IS USED TO REDUCE THE AMOUNT OF MUD TRACKED OFF-SITE WITH CONSTRUCTION TRAFFIC. LOCATED AT POINTS OF INGRESS/EGRESS, THE PRACTICE IS USED TO REDUCE THE AMOUNT OF MUD TRACKED OFF-SITE WITH CONSTRUCTION TRAFFIC.



CONSTRUCTION SPECIFICATIONS

1. **STONE SIZE:** ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. **LENGTH:** THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT.
3. **THICKNESS:** THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. **WIDTH:** THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. **GEOTEXTILE:** A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA, PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI.
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	<0.6 MM.
PERMITIVITY	1X10 ⁻³ CM/SEC.

6. **TIMING:** THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. **CULVERT:** A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. **WATER BAR:** A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. **MAINTENANCE:** TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. **VEHICLES:** CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
11. **REMOVAL:** THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

REVISIONS

PRELIMINARY

NOT FOR

CONSTRUCTION

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CONSTRUCTION DOCUMENTS FOR
AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701

ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER

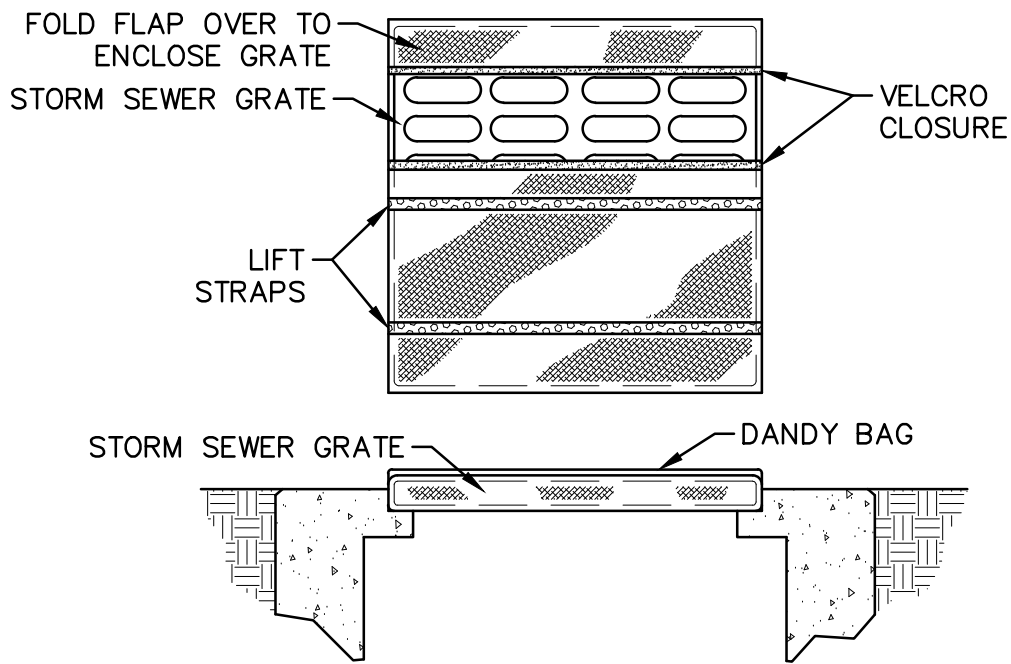
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STORMWATER
POLLUTION
PREVENTION PLAN

DRAWING NUMBER

C602

INLET PROJECTION – DANDY BAG®



INSTALLATION

1. PLACE THE EMPTY DANDY BAG OVER THE GRATE AS THE GRATE STANDS ON END. PULL UP SLACK.
2. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE.
3. HOLDING THE LIFT STRAPS, INSERT THE GRATE INTO THE INLET BEING CAREFUL NOT TO DAMAGE THE DANDY BAG UNIT.

MAINTENANCE

1. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH RAIN EVENT OR AS DIRECTED BY ENGINEER/INSPECTOR. DISPOSE OF UNIT NO LONGER IN USE AT AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY

TEMPORARY SEEDING

CONSTRUCTION SPECIFICATIONS

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	LB./1000 FT²	LB./ACRE
MARCH 1 TO AUGUST 15	OATS	3	128 (4 BU.)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYEGRASS	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	ANNUAL RYEGRASS	1.25	55
	PERENNIAL RYEGRASS	3.25	142
	CREeping RED FESCUE	0.4	17
	KENTUCKY BLUEGRASS	0.4	17
AUGUST 16 TO NOVEMBER 1	RYE	3	112 (2 BU.)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	WHEAT	3	120 (2 BU.)
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYE	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	ANNUAL RYEGRASS	1.25	55
NOVEMBER 1 TO FEB. 28	PERENNIAL RYEGRASS	3.25	142
	CREeping RED FESCUE	0.4	17
	KENTUCKY BLUEGRASS	0.4	17
	USE MULCH ONLY OR DORMANT SEEDING		

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

MULCHING-TEMPORARY SEEDING

1. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES ON FAVORABLE VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
2. MATERIALS
 - STRAW: IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 LB. PER 1,000 SQUARE FEET (TWO TO THREE BALES).
 - HYDROSEEDERS: IF WOOD-CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. PER ACRE OR 46 LB. PER 1,000 SQUARE FEET.
 - OTHER: OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.
3. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS
 - MECHANICAL: A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, LEFT TO A LENGTH OF APPROXIMATELY 6 INCHES.
 - MULCH NETTINGS: NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATION RUNOFF AND ON CRITICAL SLOPES.
 - SYNTHETIC BINDERS: SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUIVALENT MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
 - WOOD-CELLULOSE FIBER: WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB. PER ACRE. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER, AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. PER 100 GALLONS.

PERMANENT SEEDING

SITE PREPARATION

1. SUBSOILER, PLOW, OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
2. THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
3. TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

SEEDBED PREPARATION

1. LIME: AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER 1,000-SQ. FT. OR 2 TONS PER ACRE.
2. FERTILIZER: FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN PLACE OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 25 POUNDS PER 1,000-SQ. FT. OR 1000 POUNDS PER ACRE OF A 10-10-10 OR 12-12-12 ANALYSES.
3. THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.

SEEDING DATES AND SOIL CONDITIONS

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT SEEDING.

DORMANT SEEDINGS

1. SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.
2. THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDING":
 - FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
 - FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZE, APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED.
 - WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

MULCHING

1. MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED. 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIAL.
2. MATERIALS
 - STRAW: IF STRAW IS USED IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 POUNDS (TWO TO THREE BALES) PER 1,000-SQ. FT. THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY APPLIED SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000-SQ.-FT. SECTIONS AND SPREAD TWO 45-LB. BALES OF STRAW IN EACH SECTION.
 - HYDROSEEDERS: IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE APPLIED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.
 - OTHER: OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL MATTINGS OR BLANKETS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.
3. STRAW AND MULCH ANCHORING METHODS
 - STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.
 - MECHANICAL: A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY, BE LEFT LONGER THAN 6 INCHES.
 - MULCH NETTING: NETTING SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
 - ASPHALT EMULSION: ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURE OR AT THE RATE OF 160 GALLONS PER ACRE.
 - SYNTHETIC BINDERS: SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUIVALENT MAY BE USED AT RATES SPECIFIED BY THE MANUFACTURER.
 - WOOD CELLULOSE FIBER: WOOD CELLULOSE FIBER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER WITH THE MIXTURE CONTAINING A MAXIMUM OF 50 POUNDS CELLULOSE PER 100 GALLONS OF WATER.

IRRIGATION

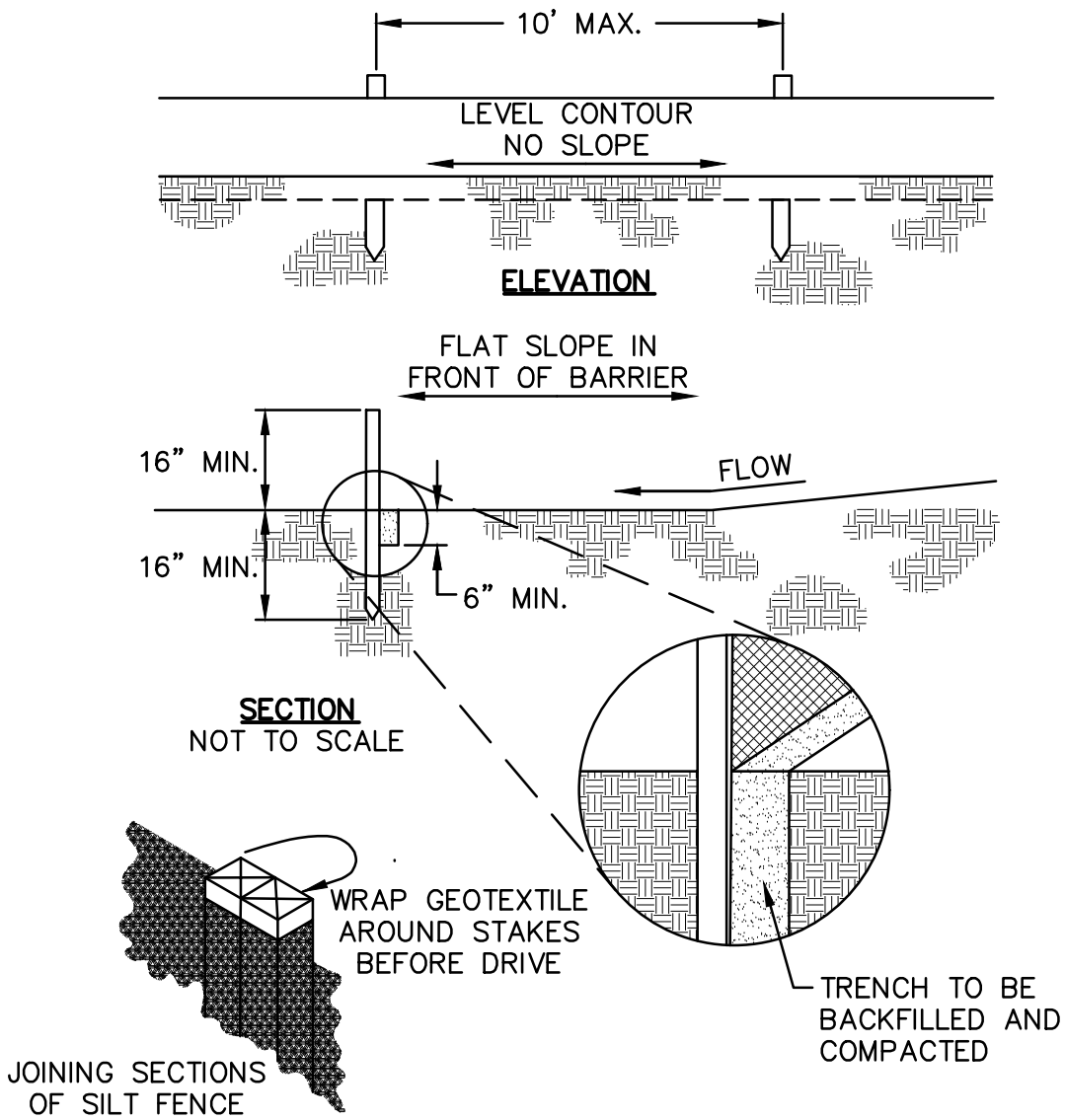
PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY WEATHER OR ON ADVERSE SITE CONDITIONS, WHICH REQUIRE ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH.

IRRIGATION RATES SHALL BE MONITORED TO PREVENT EROSION AND DAMAGE TO SEEDDED AREAS FROM EXCESSIVE RUNOFF.

PERMANENT SEEDING SPECIES SELECTION			
SEED MIX	SEEDING RATE		NOTES
	LB./1000 FT ²	LB./ACRE	
GENERAL USE			
OATS	1/2-1	20-40	FOR CLOSE MOWING & WATERWAYS WITH <2.0 FT/SEC VELOCITY
TALL FESCUE	1/4-1/2	10-20	
ANNUAL RYEGRASS	1/2-1	20-40	
TALL FESCUE	1-1 1/4	40-50	
TURF-TYPE FESCUE	2 1/4	90	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	1-1 1/4	40-50	DO NOT SEED LATER THAN AUGUST
CROWN VETCH	1/4-1/2	10-20	
TALL FESCUE	1/2-3/4	20-30	DO NOT SEED LATER THAN AUGUST
FLAT PEA	1/2-3/4	20-25	
TALL FESCUE	1/2-3/4	20-30	
ROAD DITCHES AND SWALES			
TALL FESCUE	1-1 1/4	40-50	
TURF-TYPE FESCUE	2 1/4	90	
KENTUCKY BLUEGRASS	0.1	5	
LAWNS			
KENTUCKY BLUEGRASS	2	100-120	FOR SHADED AREAS
PERENNIAL BLUEGRASS	2		
KENTUCKY BLUEGRASS	2	100-120	
CREeping RED FESCUE	1-1 1/2		
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.			

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

SILT FENCE



JOINING SECTIONS OF SILT FENCE

CONSTRUCTION SPECIFICATIONS

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL, CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.
9. SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6 INCHES OVERLAP PRIOR TO DRIVING INTO THE GROUND. (SEE DETAILS)
10. MAINTENANCE: SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

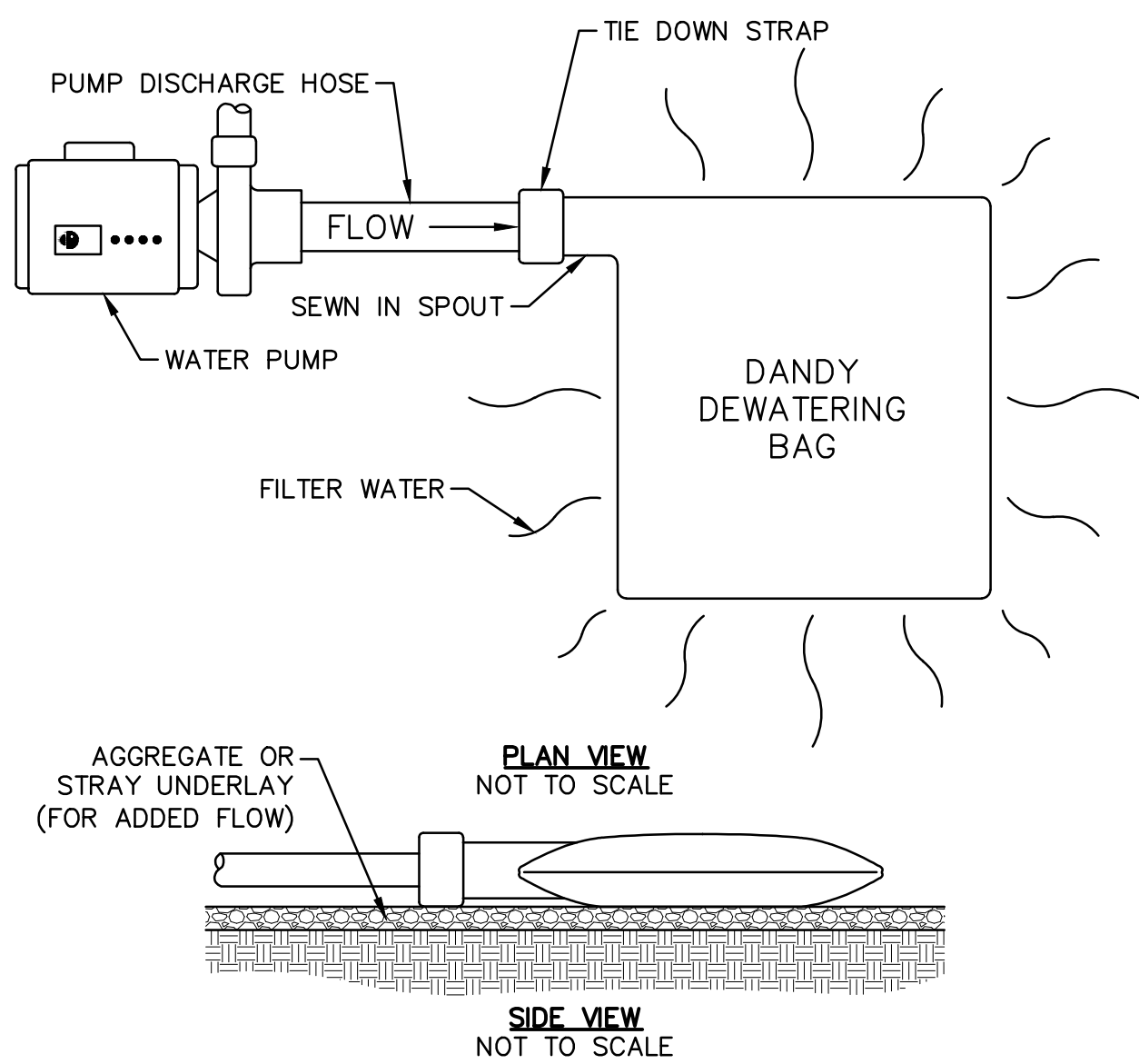
CRITERIA FOR SILT FENCE MATERIALS

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

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	≤0.84 MM	ASTM D4751
MINIMUM PERMITTIVITY	1X10 ⁻² SEC. ⁻¹	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

NOTE: THE USE OF STRAW WATTLE, OR FILTER SOCK, HAS BEEN PROVEN TO BE AN EFFECTIVE ESC BMP. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE IN LINEAR INSTALLATIONS.

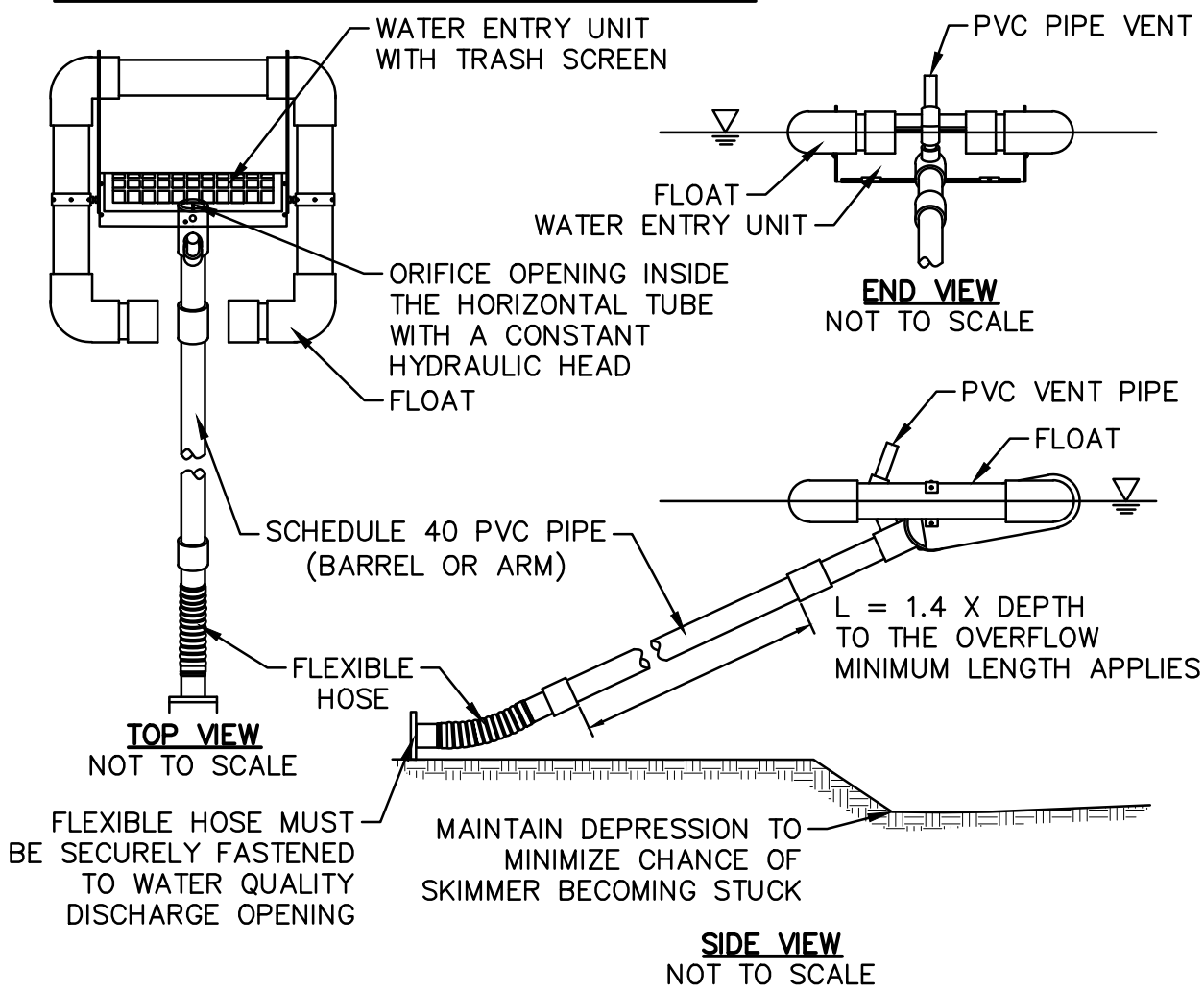
DANDY DEWATERING BAG®



NOTE

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. INSTALL AND MAINTAIN SYSTEM PER MANUFACTURER'S RECOMMENDATION.

TEMPORARY FARICLOTH SKIMMER



SKIMMER SPECIFICATIONS		
SKIMMER DIAMETER (INCHES)	ORIFICE DIAMETER (INCHES)	PVC PIPE LENGTH (FEET)
2.5	2.4	2.8

NOTES

1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. INSTALL SKIMMER PER MANUFACTURER'S RECOMMENDATIONS.
8. BARREL PIPE SHOULD BE 1.4 X DEPTH OF BASIN TO ENSURE PROPER FUNCTION.

TEMPORARY SEDIMENT CONTROL

TEMPORARY SEDIMENT BASIN SIZING	
DRAINAGE AREA	15.84 ACRES
DRAINAGE AREA DISTURBED	3.49 ACRES
DEWATERING VOLUME REQUIRED (1800 FT³/ACRE DRAINAGE AREA)	28,512 FT³
DEWATERING VOLUME PROVIDED	19,157 FT³
SEDIMENT STORAGE REQUIRED (1000 FT³/ACRE DISTURBED AREA)	8,370 FT³
SEDIMENT STORAGE PROVIDED	9,030 FT³

NOTE

CONTRACTOR MAY USE A FREESTANDING TEMPORARY RISER WITH TRASH RACK AND CONCRETE BASE AS APPROVED BY THE ENGINEER.

REVISIONS

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NOT FOR
CONSTRUCTION

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CONSTRUCTION DOCUMENTS FOR
AVANELLE CROSSING

6251 AVANELLE DRIVE
ATHENS, OHIO 45701
ATHENS TOWNSHIP, ATHENS COUNTY

PROJECT NUMBER
25-221
STORMWATER
POLLUTION
PREVENTION PLAN
DRAWING NUMBER
C603