

## EROSION CONTROL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE AND WAKE COUNTY STANDARDS, SPECIFICATIONS AND DETAILS.
- GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE WAKE COUNTY SOIL AND EROSION CONTROL STANDARDS AND SPECIFICATIONS.
- GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER QUALITY (DWQ) STANDARDS AND SPECIFICATIONS. WHERE DIFFERENT FROM WAKE COUNTY STANDARDS, THE MORE STRINGENT METHOD SHALL BE APPLIED.
- FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY EITHER THE COUNTY EROSION CONTROL DEPARTMENT OR THE DWQ.
- CONTRACTOR SHALL SEED AND STABILIZE ALL STEEP SLOPES (GREATER THAN 2H:1V) WITHIN 7 DAYS, 10 DAYS FOR MODERATE SLOPES (3H:1V OR GREATER) AND WITHIN 14 CALENDAR DAYS EVERYWHERE ELSE (STATE LAW 2009-486).
- FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDEED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
- NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
- THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
- EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY WAKE COUNTY SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCE)
- CONTRACTOR SHALL INSPECT ALL SEDIMENT/EROSION CONTROL DEVICES AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
- A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
- CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
- ANY GRADING BEYOND THE DENUDEED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY/COUNTY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSISTENT OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
- A CONSTRUCTION SEQUENCE HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
- PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN TRENCH.
- CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
- TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS.
- STORM DRAINAGE STRUCTURE LOCATIONS AND PIPE SIZES SUBJECT TO FINAL CONSTRUCTION DRAWING APPROVAL.

## STOCKPILE NOTES

- DESIGN CRITERIA
- STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.
  - STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
  - STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
  - OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDD AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN. DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL, PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).
  - SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEVED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC.
  - IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT STOCKPILE.
  - THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE IS REQUIRED.
  - ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).
  - STOCKPILE MUST HAVE SILT FENCE WRAPPED AROUND THE LOW SIDE(S) AND A SILT FENCE OUTLET AT ALL LOW POINTS.

## CONSTRUCTION SEQUENCE - STAGE 1:

- OBTAIN GRADING PERMIT FROM THE WAKE COUNTY ENVIRONMENTAL SERVICES DEPARTMENT.
- CALL ENVIRONMENTAL CONSULTANT JEEVAN NEUPANE, PE (919-819-8907) TO SCHEDULE A PRE-CONSTRUCTION MEETING. NOTIFY OWNER AND ENGINEER WHEN PRECON IS SCHEDULED SO THEY MAY ALSO ATTEND.
- CONTRACTOR WILL BE REQUIRED TO SUBMIT SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG10000) TO WAKE COUNTY INSPECTIONS THROUGHOUT THE PROJECT.
- INSTALL THE FOLLOWING EROSION AND SEDIMENTATION CONTROL DEVICES PER THE APPROVED PLAN IN THE FOLLOWING ORDER:
  - GRAVEL CONSTRUCTION ENTRANCES AND TEMPORARY ACCESS ROADS.
  - TREE PROTECTION FENCE
  - SILT FENCING SURROUNDING SITE WITH SILT FENCE OUTLETS.
  - INLET PROTECTION FOR EXISTING INLETS WITHIN ROADWAYS.
- INSTALL THE FOLLOWING EROSION AND SEDIMENTATION CONTROL DEVICES PER THE APPROVED PLAN IN THE FOLLOWING ORDER:
  - SKIMMER BASINS WITH POROUS BAFFLES AND OUTLET PROTECTION.
  - RIP RAP BASINS
  - TEMPORARY DIVERSION DITCHES WITH SPECIFIED LINERS.
  - STORM DRAINAGE BY-PASS SYSTEM "600" FROM EW-600 TO EW-602
- AFTER TEMPORARY DIVERSION DITCHES, SILT FENCING, AND RIP RAP BASINS ARE IN PLACE; BEGIN INSTALLING THE STREAM DIVERSION/PUMP-AROUND AS SHOWN ON SHEETS C6.104 AND C6.108. FOLLOW THE SEQUENCE BELOW:
  - INSTALL "AQUA BARRIER" (OR EQUIVALENT) COFFER DAMS AS SHOWN ON THE PLAN
  - PROVIDE PUMP AND DIVERT PUMPED FLOW THROUGH A FILTER BAG AS SHOWN AND DISCHARGE FLOW DOWNSTREAM OF THE STREAM CROSSING AREA.
  - MAINTAIN THE ABOVE DEVICES UNTIL THE PERMANENT STREAM CROSSING IS COMPLETE AND STABILIZED.
- CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- CLEAR AND GRUB AREA FOR FUTURE CONSTRUCTION. CONTRACTOR TO COORDINATE WITH DEVELOPER TO OBTAIN NECESSARY OFFSITE EASEMENTS.
- WHEN STAGE 1 CONSTRUCTION IS COMPLETE, CALL WAKE COUNTY ENVIRONMENTAL SERVICES FOR INSPECTION. PROCEED TO STAGE 2.

## CONSTRUCTION SEQUENCE - STAGE 2:

- MAINTAIN DEVICES AS NEEDED IN ACCORDANCE WITH THE NOTES ON THIS SHEET.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF INACTIVITY.
- CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION CONTROL DEVICES ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED.
- BEGIN MASS GRADING OF SITE. AS AREAS ARE BROUGHT UP TO PROPOSED GRADE, STABILIZE SITE WITH VEGETATION. ADJUST DIVERSION DITCHES AS NECESSARY TO MAINTAIN FLOW TO SKIMMER BASINS AND RIP RAP BASINS.
- CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE IN DIVERSION DITCHES AND TO SEDIMENT BASINS AND RIP RAP BASINS AT ALL TIMES THROUGHOUT CONSTRUCTION.
- INSTALL STORM SEWER, AS SHOWN ON THE PLANS, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS.
- SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG10000) TO WAKE COUNTY THROUGHOUT THE PROJECT.
- SEED AND MULCH AREAS DISTURBED ALONG PROJECT PERIMETER AND AREAS DOWNSTREAM OF SEDIMENT BASINS SHALL BE STABILIZED IMMEDIATELY UPON CONSTRUCTION. SEE "SEEDING AND MULCHING" NOTES ON THIS SHEET.
- ALL OFF-SITE STREETS SHALL BE KEPT CLEAN AS NOTED IN EROSION CONTROL NOTES DURING HAUL OFF OF EXCAVATED MATERIAL.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF INACTIVITY.

## CONSTRUCTION SEQUENCE - STAGE 3:

- COMPLETE FINE GRADING OF SITE. CONTINUE TO STABILIZE DISTURBED AREAS WITH VEGETATION AS GRADING IS COMPLETED.
- INSTALL AND MAINTAIN PERMANENT SLOPE PROTECTION LINERS AS SHOWN ON PLAN.
- NOTIFY NCDER, DEDMLR AND WAKE COUNTY E&S INSPECTOR, A MINIMUM OF 10 DAYS PRIOR TO INITIATING BASIN DEWATERING/REMOVAL SEQUENCE, PER NCG10 PERMIT.
- SEE BASIN REMOVAL SEQUENCE ON THIS SHEET.
- PRIOR TO THE REMOVAL, REDUCTION OR CONVERSION OF ANY SEDIMENT BASIN, THE CONTRACTOR IS TO CONTACT THE WAKE COUNTY ENVIRONMENTAL CONSULTANT JEEVAN NEUPANE, PE (919-819-8907). WAKE COUNTY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK.

## EROSION CONTROL MAINTENANCE PLAN

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BY THE SITE CONTRACTOR FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
- THE SEDIMENT BASINS SHALL BE INSPECTED REGULARLY DURING LAND DISTURBING ACTIVITIES AND AFTER EACH RUNOFF-PRODUCING RAINFALL. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF EACH BASIN. PORTIONS OF THE BASIN'S GRAVEL FACING THAT ARE CONTAMINATED BY SEDIMENT SHALL BE REPLACED WITH FRESH GRAVEL DURING EACH SEDIMENT REMOVAL EPISODE.
- SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT, AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADED DISTURBED AREAS.
- DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED. PERMISSION SHALL BE GIVEN BY THE EROSION CONTROL INSPECTOR FOR REMOVAL UPON COMPLETION OF PERMANENT UPSTREAM STABILIZATION.

## BASIN REMOVAL SEQUENCE

- SCHEDULE A SITE MEETING WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE IF A BASIN CAN BE REMOVED. INSTALL SILT FENCING OR OTHER TEMPORARY EROSION CONTROL MEASURES AS NEEDED PRIOR TO REMOVAL OF THE BASIN.
- WAKE COUNTY MUST GRANT PERMISSION TO CONVERT THE SEDIMENT BASIN OVER TO STORMWATER USE PRIOR TO COMPLETING ANY RELATED WORK.
- REMOVE BASIN(S) AND ASSOCIATED TEMPORARY DIVERSION DITCHES. IF CULVERT PIPES NEED TO BE EXTENDED, PERFORM THIS OPERATION AT THIS TIME. FINE GRADE AREA IN PREPARATION FOR SEEDING.
- PERFORM SEEDBED PREPARATION, SEED, MULCH AND ASPHALT TACK ANY RESULTING BARE AREAS IMMEDIATELY.
- INSTALL VELOCITY DISSIPATORS AND/OR LEVEL SPREADERS AS REQUIRED ON THE EROSION CONTROL PLAN.
- WHEN SITE IS FULLY STABILIZED, CALL ENVIRONMENTAL ENGINEER/CONSULTANT FOR APPROVAL OF REMOVING REMAINING TEMPORARY EROSION CONTROL MEASURES AND ADVICE ON WHEN SITE CAN BE ISSUED A CERTIFICATE OF COMPLETION.

NOTE: A MEETING SHOULD ALSO BE SCHEDULED WITH THE ENVIRONMENTAL ENGINEER/CONSULTANT TO DETERMINE WHEN A BASIN MAY BE CONVERTED FOR STORMWATER USE. SOME MUNICIPALITIES MAY ALSO REQUIRE THIS.

## TEMPORARY DIVERSION DITCH DESIGN TABLE

| TEMPORARY DIVERSION ID          | TD-1         | TD-2         | TD-3       | TD-4        | TD-5       | TD-6        | TD-7        | TD-8      | TD-9       |
|---------------------------------|--------------|--------------|------------|-------------|------------|-------------|-------------|-----------|------------|
| MINIMUM DEPTH (FT)              | 1.48         | 1.49         | 1.01       | 1.52        | 1.00       | 0.54        | 0.98        | 1.29      | 1.21       |
| MINIMUM BOTTOM WIDTH (FT)       | 1.50         | 1.50         | 0.00       | 1.00        | 0.00       | 0.00        | 0.00        | 2.00      | 1.00       |
| CALCULATED VELOCITY (FT/S)      | 5.99         | 5.46         | 2.72       | 5.12        | 2.39       | 6.09        | 6.88        | 10.51     | 9.21       |
| ALLOWABLE VELOCITY (FT/S)       | 8.00         | 8.00         | 5.00       | 6.00        | 5.00       | 10.00       | 9.00        | 12.50     | 9.50       |
| CALCULATED SHEAR STRESS (LB/SF) | 1.80         | 1.49         | 1.04       | 1.56        | 0.85       | 1.68        | 3.06        | 4.02      | 3.78       |
| ALLOWABLE SHEAR STRESS (LB/SF)  | 2.00         | 2.00         | 1.55       | 1.75        | 1.55       | 2.25        | 8.00        | 12.00     | 8.00       |
| TEMP LINER SPECIFICATION*       | ERONET SC150 | ERONET SC150 | ERONET S75 | ERONET S150 | ERONET S75 | ERONET C125 | ERONET P300 | VMAX P550 | VMAX SC250 |
| PERMANENT LINER SPECIFICATION*  | ERONET P300  | ERONET P300  | N/A        | ERONET P300 | N/A        | N/A         | ERONET P300 | VMAX P550 | VMAX SC250 |

\*ALL SPECIFICATIONS ARE "NORTH AMERICAN GREEN" ROLLMAX PRODUCTS OR APPROVED EQUAL

## SEDIMENT BASIN DESIGN TABLE

| SEDIMENT TRAP ID                     | SB-A    | SB-B    | SB-G    | SB-1   | SB-2  |
|--------------------------------------|---------|---------|---------|--------|-------|
| Q10 (CFS)                            | 110.9   | 111.4   | 59.9    | 35.7   | 7     |
| BOTTOM LENGTH (FT)                   | N/A     | N/A     | N/A     | 142    | 27    |
| BOTTOM WIDTH (FT)                    | N/A     | N/A     | N/A     | 70     | 58    |
| SEDIMENT DEPTH (FT)                  | 5       | 5.5     | 5       | 2      | 2     |
| FREEBOARD (from sediment depth) (FT) | 2       | 2.5     | 2       | 1.5    | 1.5   |
| DEPTH TO CREST OF SPILLWAY (FT)      | 5       | 5.5     | 5       | 2      | 2     |
| SIDESLOPES                           | 3:1     | 3:1     | 3:1     | 2:1    | 2:1   |
| SPILLWAY LENGTH (FT)                 | 24      | 24      | 16      | 34     | 10    |
| HEIGHT OF BERM (FT)                  | 7       | 8       | 7       | 3.5    | 3.5   |
| TOP OF TRAP LENGTH (FT)              | N/A     | N/A     | N/A     | 156    | 72    |
| TOP OF TRAP WIDTH (FT)               | N/A     | N/A     | N/A     | 84     | 41    |
| STORAGE VOLUME REQUIRED (CF)         | 58,896  | 62,226  | 22,374  | 16,470 | 3,474 |
| STORAGE VOLUME PROVIDED (CF)         | 209,959 | 370,547 | 104,630 | 21,620 | 3,850 |
| SEDIMENT SURFACE AREA REQUIRED (SF)  | 48,260  | 48,450  | 26,050  | 11,590 | 2,270 |
| SEDIMENT SURFACE AREA PROVIDED (SF)  | 48,560  | 77,224  | 26,835  | 11,700 | 2,310 |
| DRAINAGE AREA (AC)                   | 38.16   | 48.82   | 23.37   | 10.75  | 1.93  |
| DISTURBED AREA (AC)                  | 32.72   | 34.57   | 12.43   | 9.15   | 1.93  |

## SKIMMER DESIGN TABLE

| TRAP ID | DRAWDOWN | SKIMMER                                      |
|---------|----------|--|
| SB-A    | 4 DAYS   | 1 - 4 INCH SKIMMER WITH A 3.4 INCH ORIFICE   |
| SB-B    | 4 DAYS   | 1 - 4 INCH SKIMMER WITH A 3.5 INCH ORIFICE   |
| SB-G    | 4 DAYS   | 1 - 2.5 INCH SKIMMER WITH A 2.4 INCH ORIFICE |
| SB-1    | 4 DAYS   | 1 - 2.5 INCH SKIMMER WITH A 2.3 INCH ORIFICE |
| SB-2    | 4 DAYS   | 1 - 2 INCH SKIMMER WITH A 0.9 INCH ORIFICE   |

### Notes:

- Side slopes pertain only for the vertical height from the base to the top of berm, 2ft/1V above that.
- See details regarding skimmer design specifications
- See details on silt fence baffle spacing.

## SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE CARRIED OUT IMMEDIATELY BEHIND CONSTRUCTION IN ACCORDANCE WITH FOLLOWING SPECIFICATIONS.

| SEEDING SPECIFICATIONS                   |                                  |                  |             |
|--|----------------------------------|------------------|-------------|
| SHOULDER, SIDE DITCHES, SLOPES (MAX 3:1) |                                  |                  |             |
| SEEDING PERIOD                           | TYPE                             | APPLICATION RATE |             |
|  |                                  | PER ACRE         | PER 1000 SF |
| AUGUST 15 - NOVEMBER 1                   | TALL FESCUE                      | 300#             | 7#          |
|  | TALL FESCUE AND ABRUZZI RYE      | 300#             | 7#          |
| MARCH 1 - APRIL 15                       | TALL FESCUE                      | 300#             | 7#          |
| APRIL 15 - JUNE 30                       | HULLED COMMON BERMUDAGRASS       | 25#              | 0.6#        |
|  | TALL FESCUE AND *BROWNTOP MILLET | 120#             | 2.8#        |
| JULY 1 - AUGUST 15                       | *OR SORGHUM-SUDAN HYBRIDS        | 35#              | 0.8#        |
|  |                                  | 30#              | 0.7#        |

| SEEDING SPECIFICATIONS |  |                  |             |
|------------------------|--|------------------|-------------|
| SLOPES (3:1 TO 2:1)    |  |                  |             |
| SEEDING PERIOD         | TYPE                                     | APPLICATION RATE |             |
|                        |  | PER ACRE         | PER 1000 SF |
| MARCH 1 - JUNE 1       | SERICA LESPEDEZA (SCARIFIED)             | 50#              | 1.2#        |
|                        | AND                                      |                  |             |
| MARCH 1 - APRIL 15     | ADD TALL FESCUE                          | 120#             | 2.8#        |
| MARCH 1 - JUNE 30      | OR ADD WEEPING LOVE GRASS                | 10#              | 0.2#        |
| MARCH 1 - JUNE 30      | OR ADD HULLED COMMON BERMUDAGRASS        | 25#              | 0.6#        |
| JUNE 1 - SEPTEMBER 1   | *TALL FESCUE AND                         | 120#             | 2.8#        |
|                        | *OR BROWNTOP MILLET                      | 35#              | 0.8#        |
|                        | *OR SORGHUM-SUDAN HYBRIDS                | 30#              | 0.7#        |
| SEPTEMBER 1 - MARCH 1  | SERICA LESPEDEZA (UNHULLED, UNSCARIFIED) | 70#              | 1.6#        |
|                        | AND TALL FESCUE                          | 120#             | 2.8#        |
| NOVEMBER 1 - MARCH 1   | ADD ABRUZZI RYE                          | 25#              | 0.6#        |

\*TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW TO MORE THAN 12 INCHES HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT OR NORTH CAROLINA DIVISION OF SOIL AND WATER CONSERVATION FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDEED AREAS. THE ABOVE VEGETATION RATES ARE THOSE THAT DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

DISTURBED AREA = 101.96 AC.

ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE TOWN OF ROLESVILLE AND WAKE COUNTY SPECIFICATIONS AND DETAILS.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



McADAMS

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## CLIENT

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PEARCE FARM - PHASES 1-3  
CONSTRUCTION DRAWINGS - PACKAGE 1  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



## REVISIONS

NO. DATE

## PLAN INFORMATION

PROJECT NO. AGN23001  
FILENAME AWH20000-CD-PKG-02-EC4  
CHECKED BY .  
DRAWN BY .  
SCALE N.T.S.  
DATE 12.02.2024

## SHEET

EROSION CONTROL NOTES

C6.000



Know what's below.  
Call before you dig.



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- GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE WAKE COUNTY SOIL AND EROSION CONTROL STANDARDS AND SPECIFICATIONS.
- GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER RESOURCES (DWR) STANDARDS AND SPECIFICATIONS. WHERE DIFFERENT FROM WAKE COUNTY STANDARDS, THE MORE STRINGENT METHOD SHALL BE APPLIED.
- FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY EITHER THE COUNTY EROSION CONTROL DEPARTMENT OR THE DWR.
- CONTRACTOR SHALL SEED AND STABILIZE ALL STEEP SLOPES (GREATER THAN 2H:1V) WITHIN 7 DAYS, 10 DAYS FOR MODERATE SLOPES (3H:1V OR GREATER) AND WITHIN 14 CALENDAR DAYS EVERYWHERE ELSE (STATE LAW 2009-486).
- FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDEED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE ON THE PLAN.
- NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
- THERE SHALL BE NO DISTURBANCE OR RE-COMPACTION WITHIN AREAS DESIGNATED FOR THE TREE PRESERVATION AND PROTECTION FENCING, INCLUDING BUT NOT LIMITED TO STOCKPLING OF CONSTRUCTION OR OTHER MATERIALS, TRAFFIC, OR BORING SAMPLES.
- THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
- EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY WAKE COUNTY SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE.
- CONTRACTOR SHALL CONTACT EROSION CONTROL INSPECTOR AFTER INITIAL E8SC MEASURE INSTALLATION FOR THE CERTIFICATE OF COMPLIANCE INSPECTION.
- CONTRACTOR SHALL INSPECT ALL SEDIMENT / EROSION CONTROL DEVICES AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
- A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
- CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
- ONCE THE SITE IS STABILIZED AND E8SC MEASURES REMOVED, THE CONTRACTOR SHALL CONTACT THE EROSION CONTROL INSPECTOR FOR A CERTIFICATE OF COMPLETION INSPECTION.
- ANY GRADING BEYOND THE DENUDEED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY/COUNTY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
- A CONSTRUCTION SEQUENCE HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
- CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE RELIEF FROM CONCENTRATED FLOWS.
- TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE PROPERTY OWNER.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS.

**EROSION CONTROL MAINTENANCE PLAN**

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BY THE SITE CONTRACTOR FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
- SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT, AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADIENT DISTURBED AREAS.
- DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED. PERMISSION SHALL BE GIVEN BY THE EROSION CONTROL INSPECTOR FOR REMOVAL UPON COMPLETION OF PERMANENT UPSTREAM STABILIZATION.

**SEEDING AND MULCHING**

- SEEDING AND MULCHING SHALL BE CARRIED OUT IMMEDIATELY BEHIND CONSTRUCTION.
- DENUDED AREAS OF JURISDICTIONAL POND BED TO BE SEEDED WITH MELLOW MARSH FARMS WETLAND MIX OR ENGINEER APPROVED EQUIVALENT.
- CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT OR NORTH CAROLINA DIVISION OF SOIL AND WATER CONSERVATION FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDEED AREAS.
- SIDE SLOPES OF THE BREACH SECTION AND OTHER AREAS REQUIRING STABILIZATION OUTSIDE OF THE JURISDICTIONAL POND BED SHALL BE SEEDED ACCORDING TO THE FOLLOWING SPECIFICATIONS.

| SEEDING SPECIFICATIONS                   |                            |                  |
|--|----------------------------|------------------|
| SHOULDER, SIDE DITCHES, SLOPES (MAX 3:1) |                            |                  |
| SEEDING PERIOD                           | TYPE                       | APPLICATION RATE |
|  |                            | PER ACRE         |
| AUGUST 15 - NOVEMBER 1                   | TALL FESCUE                | 300#             |
|  | TALL FESCUE AND            | 300#             |
| NOVEMBER 1 - MARCH 1                     | ABRUZZI RYE                | 25#              |
| MARCH 1 - APRIL 15                       | TALL FESCUE                | 300#             |
| APRIL 15 - JUNE 30                       | HULLED COMMON BERMUDAGRASS | 25#              |
|  | TALL FESCUE AND            | 120#             |
| JULY 1 - AUGUST 15                       | *BROWNTOP MILLET           | 35#              |
|  | *OR SORGHUM-SUDAN HYBRIDS  | 30#              |

| SEEDING SPECIFICATIONS |   |                  |
|------------------------|---|------------------|
| SLOPES (3:1 TO 2:1)    |   |                  |
| SEEDING PERIOD         | TYPE                                      | APPLICATION RATE |
|                        |   | PER ACRE         |
| MARCH 1 - JUNE 1       | SERICEA LESPEDEZA (SCARIFIED)             | 50#              |
|                        | AND                                       |                  |
| MARCH 1 - APRIL 15     | ADD TALL FESCUE                           | 120#             |
| MARCH 1 - JUNE 30      | OR ADD WEEPING LOVE GRASS                 | 10#              |
| MARCH 1 - JUNE 30      | OR ADD HULLED COMMON BERMUDAGRASS         | 25#              |
|                        | *TALL FESCUE AND                          | 120#             |
| JUNE 1 - SEPTEMBER 1   | *OR BROWNTOP MILLET                       | 35#              |
|                        | *OR SORGHUM-SUDAN HYBRIDS                 | 30#              |
| SEPTEMBER 1 - MARCH 1  | SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED) | 70#              |
|                        | AND TALL FESCUE                           | 120#             |
| NOVEMBER 1 - MARCH 1   | ADD ABRUZZI RYE                           | 25#              |

**SEEDBED PREPARATION**

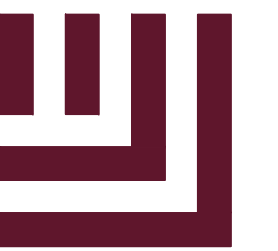
- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- RIP THE ENTIRE AREA TO 6-INCH DEPTH.
- REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLE SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLE UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60 PERCENT DAMAGED, RE-ESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

| APPLY: | AGRICULTURAL LIMESTONE | - 2 TONS/ACRE (3 TONS/ACRES IN CLAY SOILS) |
|--------|------------------------|--|
|        | FERTILIZER             | - 1000 LB/ACRE -10-10-10                   |
|        | SUPERPHOSPHATE         | - 500 LB/ACRE - 20 PERCENT ANALYSIS        |
|        | MULCH                  | - 2 TONS/ACRE - SMALL GRAIN STRAW          |
|        | ANCHOR                 | - ASPHALT EMULSION @ 300 GALS/ACRE         |

NOTE: THE ABOVE SEEDBED PREPARATION ABOVE REFERS ONLY TO AREAS OUTSIDE OF THE JURISDICTIONAL POND BED. NO EQUIPMENT IS TO BE USED ON THE JURISDICTIONAL POND BED FOR THE SEEDBED PREPARATION OR THE SEEDING PROCESS OF THE DENUDEED AREAS OF THE POND. SIMILARLY, THE AREA IS NOT TO BE MOWN AFTER SEEDING. THE DENUDEED JURISDICTIONAL POND BED SHALL BE SEEDED WITHOUT THE USE OF EQUIPMENT AND LEFT TO STABILIZE NATURALLY.

**GENERAL NOTES AND CONSTRUCTION SEQUENCE**

- OBTAIN GRADING PERMIT FROM THE WAKE COUNTY ENVIRONMENTAL SERVICES DEPARTMENT.
- PRIOR TO THE START OF CONSTRUCTION, SCHEDULE A SITE INSPECTION THROUGH THE WAKE COUNTY PERMIT PORTAL.
- LOCATION SHOWN OF BREACH SECTION AND GEOMETRY OF BREACH SECTION SHOWN IS APPROXIMATE. FINAL DETERMINATION OF BREACH LOCATION AND SECTION TO BE DETERMINED IN THE FIELD WITH THE OWNER, THE CONTRACTOR, THE TOWN OF ROLESVILLE, WAKE COUNTY, AND ENVIRONMENTAL PROGRAMS STAFF. JOSEPH THREACRAFT WITH THE WAKE COUNTY ENVIRONMENTAL SERVICES DEPARTMENT AND BILL DENTON WITH NCDEQ-DEMRLR (919.791.4206) SHALL BE CONTACTED IN ADVANCE OF DEWATERING.
- GENERAL CONSTRUCTION SEQUENCE PRESENTED BELOW IS A GUIDELINE FOR BREACHING THE DAM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY BREACHING THE DAM AND AVOIDING MIGRATION OF SEDIMENT OFF-SITE.
- CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IF RAIN IS FORECASTED BEFORE THE ESTIMATED COMPLETION DATE OF THE BREACH CONSTRUCTION.
- INSTALL SEDIMENT AND EROSION CONTROL MEASURES AS APPROPRIATE (SILT FENCE, ETC.). SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DISTURBED SLOPES. CONTRACTOR RESPONSIBLE FOR MAINTAINING SILT FENCE AND SILT FENCE OUTLETS. OUTLETS SHOWN ARE GENERAL LOCATIONS - CONTRACTOR RESPONSIBLE TO INSTALL AT LOW POINTS AS THEY EXIST OR ARISE. CONTRACTOR TO INSTALL APPROPRIATE SEDIMENTATION AND EROSION CONTROL MEASURES AS NEW AREAS ARE EXPOSED.
- DRAIN EXISTING POND WITH TEMPORARY SIPHON SYSTEM, PUMP, OR OTHER MEANS APPROVED BY THE DESIGN ENGINEER IN SUCH A WAY TO AVOID RELEASING SEDIMENT FROM POND. POND SHALL BE PUMPED SO AS TO DECREASE WATER SURFACE ELEVATION IN THE POND AT A SPEED OF APPROXIMATELY 1 FOOT PER DAY. POND TO BE COMPLETELY DRAINED BEFORE DAM EMBANKMENT IS BREACHED. THE POND SHALL NOT BE DRAINED BY BREACHING THE DAM. OUTLET OF DRAIN FROM SIPHON OR PUMP TO EXIT INTO DEWATERING STRUCTURE (FILTER BAG TYPE SPECIAL STILLING BASIN) PER DETAIL. NOTE THAT A PUMP MAY BE REQUIRED DURING CONSTRUCTION TO PASS THE BASEFLOW.
- ONCE POND IS COMPLETELY DRAINED, EVALUATE POND DEPTH AND BREACH SECTION LOCATION. CONTRACTOR AND OWNER TO DECIDE FINAL LOCATION OF BREACH SECTION AND GEOMETRY BASED ON FIELD CONDITIONS AND COMMUNICATION WITH THE TOWN OF ROLESVILLE AND ENVIRONMENTAL PROGRAMS STAFF. DAM TO BE BREACHED AT THE LOWEST POSSIBLE POINT AS TO NOT IMPOUND ANY WATER AFTER THE FINAL BREACH SECTION IS STABILIZED. THE LOCATION OF THE BREACH AND ASSOCIATED DISTURBANCE MUST REMAIN WITHIN THE PERMITTED LIMITS OF DISTURBANCE.
- PROPOSED CUT SLOPES FOR THE BREACH OF THE DAMS ARE SHOWN AT 3(H):1(V). ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A NC P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. MCADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.
- AN IMPERVIOUS LINER (MIRAFI FW402 OR ENGINEER APPROVED EQUIVALENT) SHALL BE INSTALLED IN THE BREACH CHANNEL DURING PAUSES IN CONSTRUCTION WHILE THE BREACH CHANNEL HAS NOT BEEN COMPLETED (I.E. EROSION CONTROL MEASURES NOT INSTALLED). AN IMPERVIOUS LINER SHALL NOT BE PRESENT IN THE FINAL CONDITION OF THE BREACH CHANNEL.
- BREACH EXISTING DAM PER GEOMETRY SHOWN. DISPOSE OF REMOVED DAM EMBANKMENT MATERIAL IN STOCKPILE AREA AS SHOWN (APPROXIMATELY 6' IN HEIGHT). INSTALL SEDIMENT AND EROSION CONTROL MEASURES FOR REMOVED EMBANKMENT MATERIAL BEFORE PLACEMENT OF MATERIAL.
- INSTALL SEDIMENT AND EROSION CONTROL MEASURES ASSOCIATED WITH THE FINAL GEOMETRY OF THE BREACH SECTION (BAFFLES, FILTER BERM, ETC.). CONTRACTOR TO INSTALL APPROPRIATE SEDIMENTATION AND EROSION CONTROL MEASURES AS NEW AREAS ARE EXPOSED.
- NO GRADING SHALL BE DONE WITHIN THE DEWATERED JURISDICTIONAL POND BED, ASIDE FROM THAT WHICH IS NECESSARY TO BREACH THE DAM. CHANNEL SHALL FORM NATURALLY THROUGH THE DEWATERED POND BED.
- STABILIZE BREACH SECTION PER GEOMETRY AND SPECIFICATIONS ON THIS SHEET. SEED AND MULCH THE POND BOTTOM. PLACE TEMPORARY COIR BAFFLE PERPENDICULAR TO THE FLOW OF WATER ALONG THE BOTTOM OF BREACH SECTION (REMOVE BAFFLES ONCE THE GRASS ON THE POND BOTTOM HAS GERMINATED). SIDE SLOPES OF BREACH SECTION AND CHANNEL BOTTOM TO BE STABILIZED WITH TURF GRASS SEED AND EXCELSIOR MATTING AS NEEDED. REMOVED DAM EMBANKMENT MATERIAL TO BE STABILIZED WITH TURF GRASS SEED. NO TURF OR MATTING MAY BE USED ON THE JURISDICTIONAL POND BED.
- ONCE BREACH SECTION AND SITE STOCKPILE AREA ARE STABILIZED, REQUEST FINAL SITE INSPECTION THROUGH THE WAKE COUNTY PERMIT PORTAL. UPON APPROVAL OF MUNICIPAL STAFF, REMOVE TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES, INCLUDING FILTER BERM, AND DISPOSE OF IN A PROPER MANNER.
- TREE PROTECTION FENCING TO BE USED TO DENOTE LIMITS OF DISTURBANCE. COMBINATION SILT FENCE / TREE PROTECTION CAN BE USED AS INDICATED IN AREAS DENOTED AS REQUIRING SILT FENCE PROTECTION.



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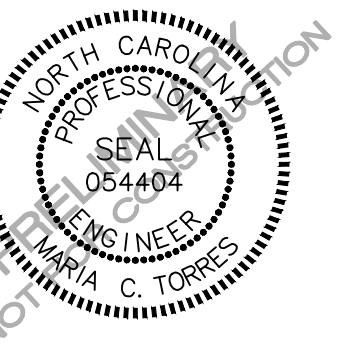
**CLIENT**

ALLIANCE GROUP OF NC, LLC  
7208 FALLS OF NEUSE RD, SUITE 101  
RALEIGH, NORTH CAROLINA 27615  
CONTACT: JACOB ANDERSON  
PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

NO. DATE

**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AGN23001-N1  
CHECKED BY MCT  
DRAWN BY CSB  
SCALE N.T.S.  
DATE 12.02.2024

**SHEET**

**DAM BREACH**  
**CONSTRUCTION NOTES**

**C0.001**





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CID-24-08



**REVISIONS**

NO. DATE

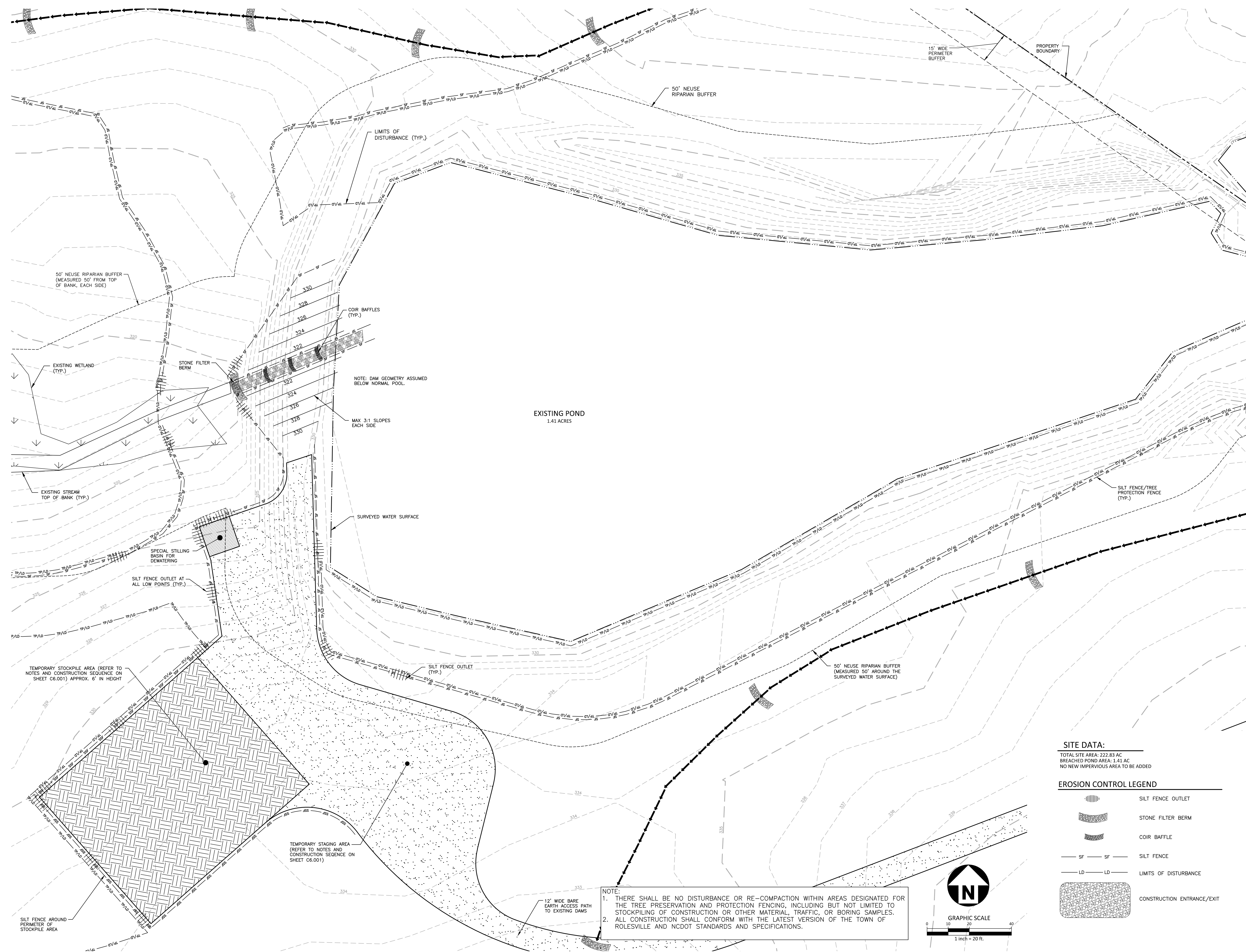
**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AGN23001-EC1  
CHECKED BY MCT  
DRAWN BY CSB  
SCALE 1" = 20'  
DATE 12.02.2024

**SHEET**

**DAM BREACH PLAN**

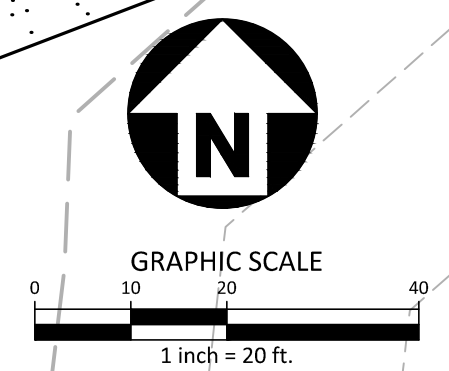
**C6.002**



**SITE DATA:**  
TOTAL SITE AREA: 222.83 AC  
BREACHED POND AREA: 1.41 AC  
NO NEW IMPERVIOUS AREA TO BE ADDED

**EROSION CONTROL LEGEND**

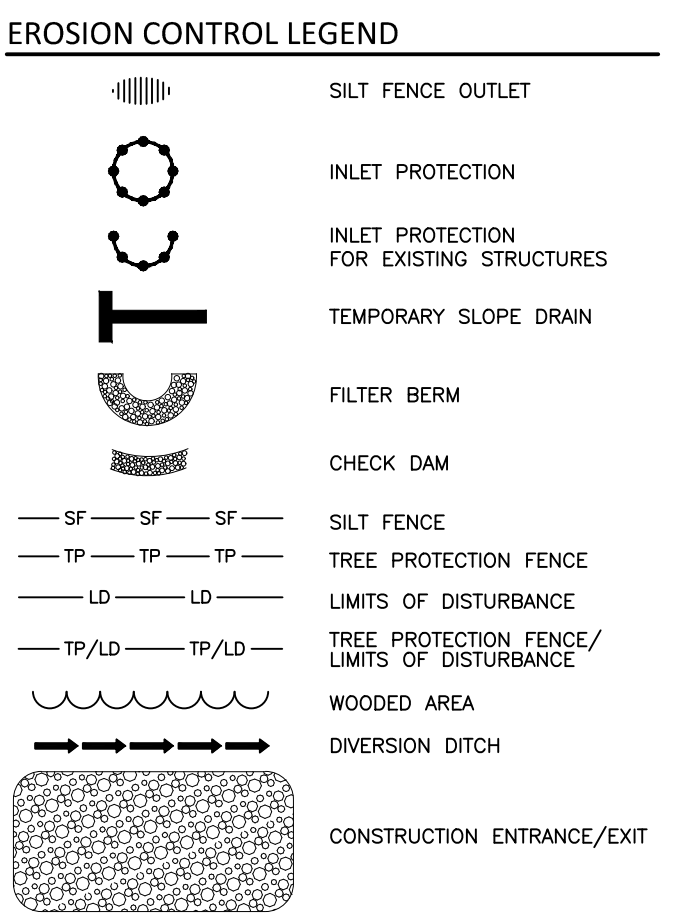
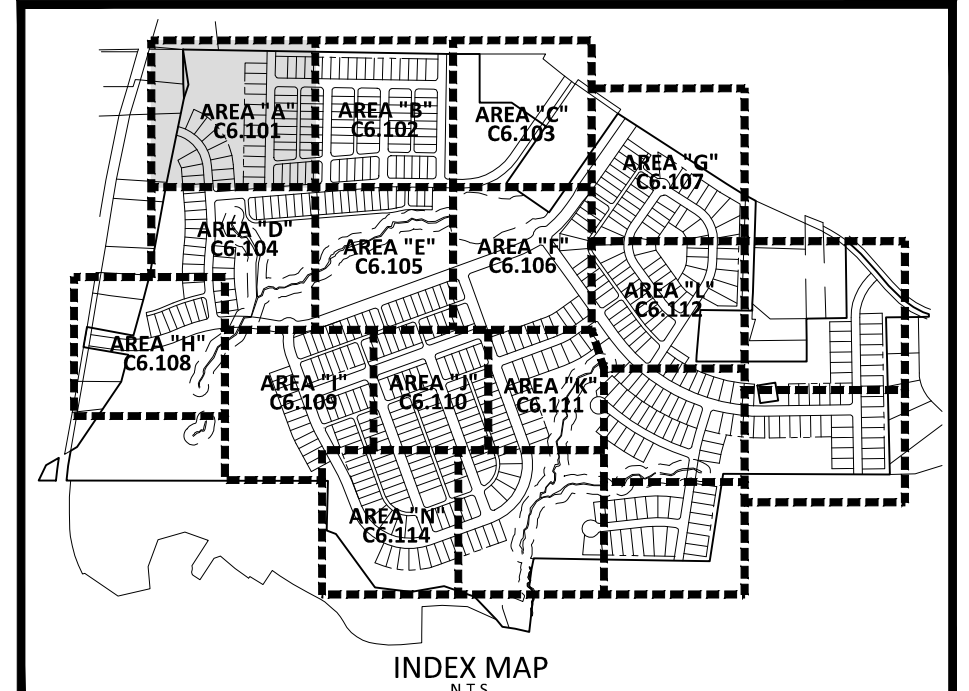
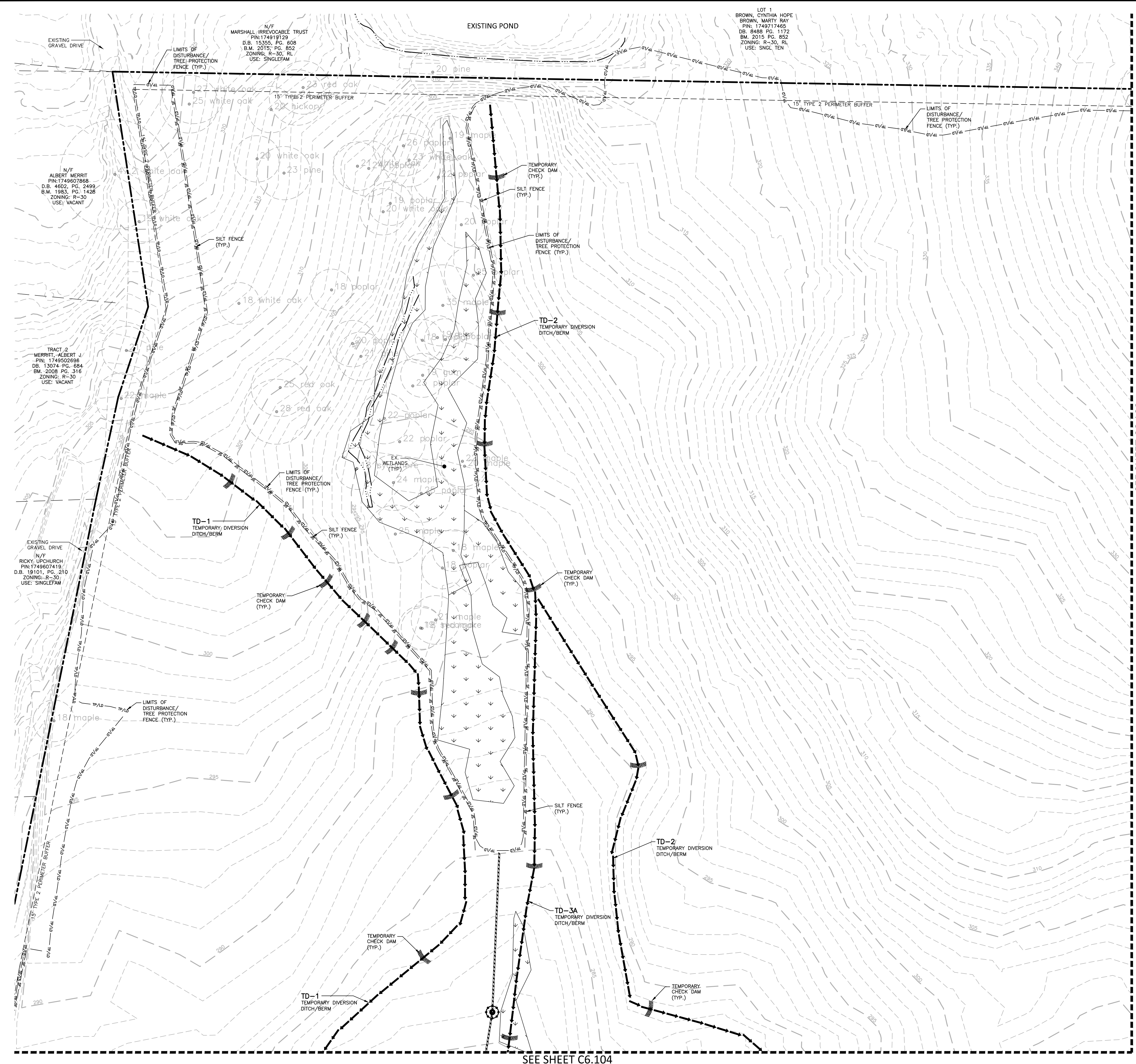
|  |                            |
|--|----------------------------|
|  | SILT FENCE OUTLET          |
|  | STONE FILTER BERM          |
|  | COIR BAFFLE                |
|  | SILT FENCE                 |
|  | LIMITS OF DISTURBANCE      |
|  | CONSTRUCTION ENTRANCE/EXIT |



**NOTE:**  
1. THERE SHALL BE NO DISTURBANCE OR RE-COMPACTION WITHIN AREAS DESIGNATED FOR THE TREE PRESERVATION AND PROTECTION FENCING, INCLUDING BUT NOT LIMITED TO STOCKPILING OF CONSTRUCTION OR OTHER MATERIAL, TRAFFIC, OR BORING SAMPLES.  
2. ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE TOWN OF ROLESVILLE AND NCDOT STANDARDS AND SPECIFICATIONS.

X:\Projects\AGN\AGN23001\04-Production\Water Resources\Stormwater Management\Dam Breach\Drawings\AGN23001-ECL.dwg, 11/26/2024 4:04:54 PM, Maria Torres



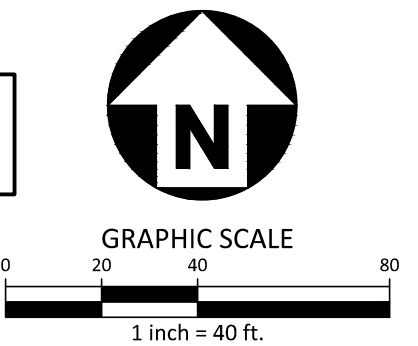


SEE SHEET C6.102

SEE SHEET C6.104

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEING SPECIFICATIONS

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



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**AGNC**  
BROKERAGE | CONSULTING | PLANNING

**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
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|     |      |

**PLAN INFORMATION**

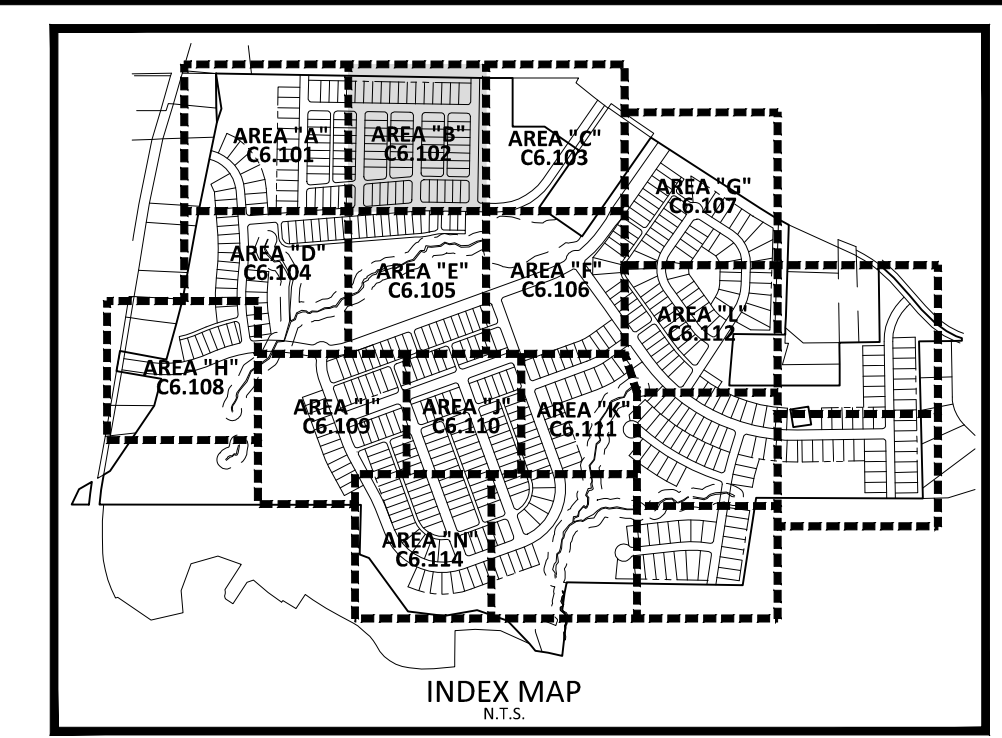
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| PROJECT NO. | AGN23001     |
| FILENAME    | AGN23001-EC1 |
| CHECKED BY  | .            |
| DRAWN BY    | .            |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "A"**

**C6.101**



LOT 1  
 BROWN, CYNTHIA HOPE  
 BROWN, MARTY RAY  
 PIN: 1749717485  
 DM. 8488 PG. 1172  
 BM. 2015 PG. 852  
 ZONING: R-30, RL  
 USE: SNGL TEN



EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SILT FENCE
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

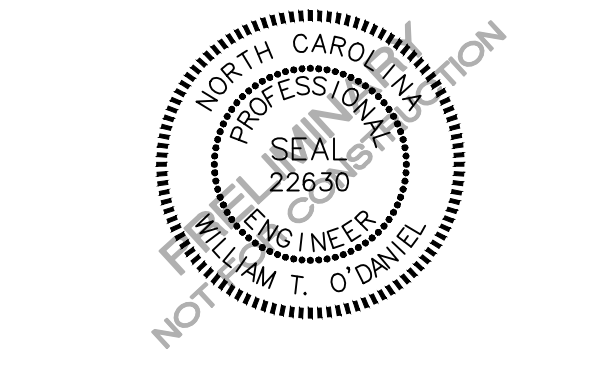
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|-----|------|
|     |      |

**PLAN INFORMATION**

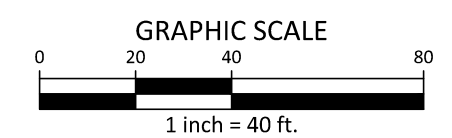
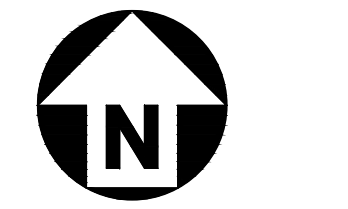
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 FILENAME AGN23001-EC1  
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 DRAWN BY .  
 SCALE 1"=40'  
 DATE 12.02.2024

**SHEET**

**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "B"**  
**C6.102**

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEING SPECIFICATIONS

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

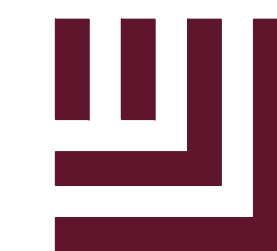
SEE SHEET C6.101

SEE SHEET C6.103

SEE SHEET C6.105

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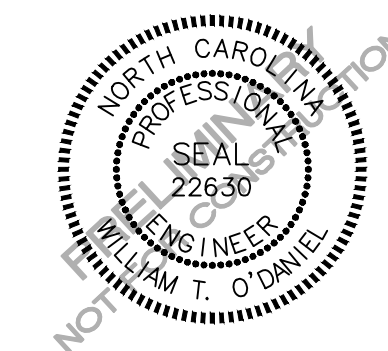
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RALEIGH, NORTH CAROLINA 27615  
CONTACT: JACOB ANDERSON  
PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

NO. DATE

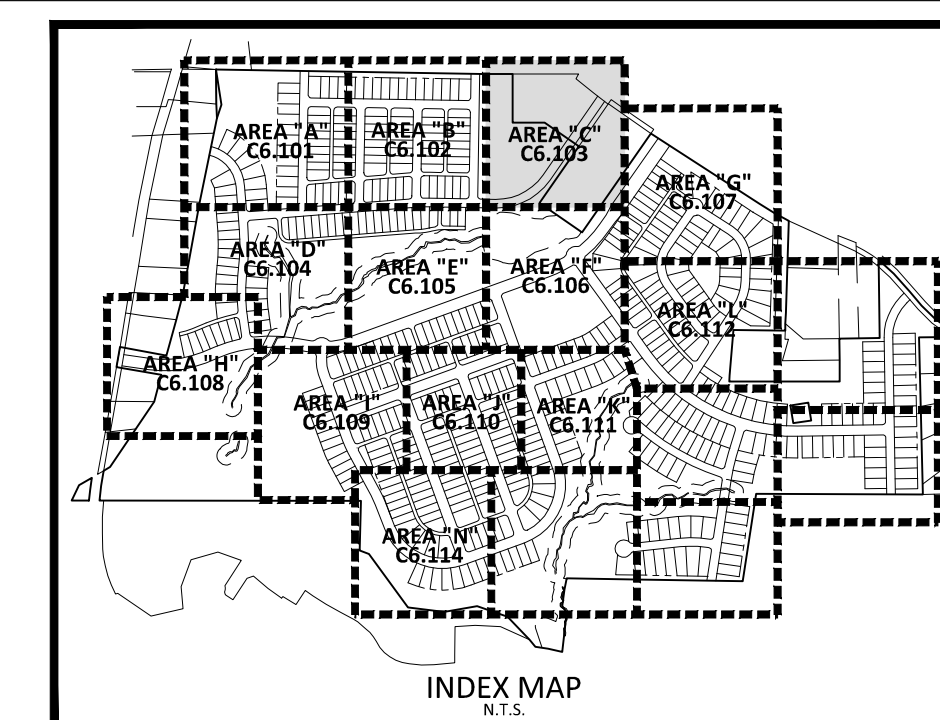
**PLAN INFORMATION**

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FILENAME AGN23001-EC1  
CHECKED BY .  
DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

**SHEET**

**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "C"**

**C6.103**



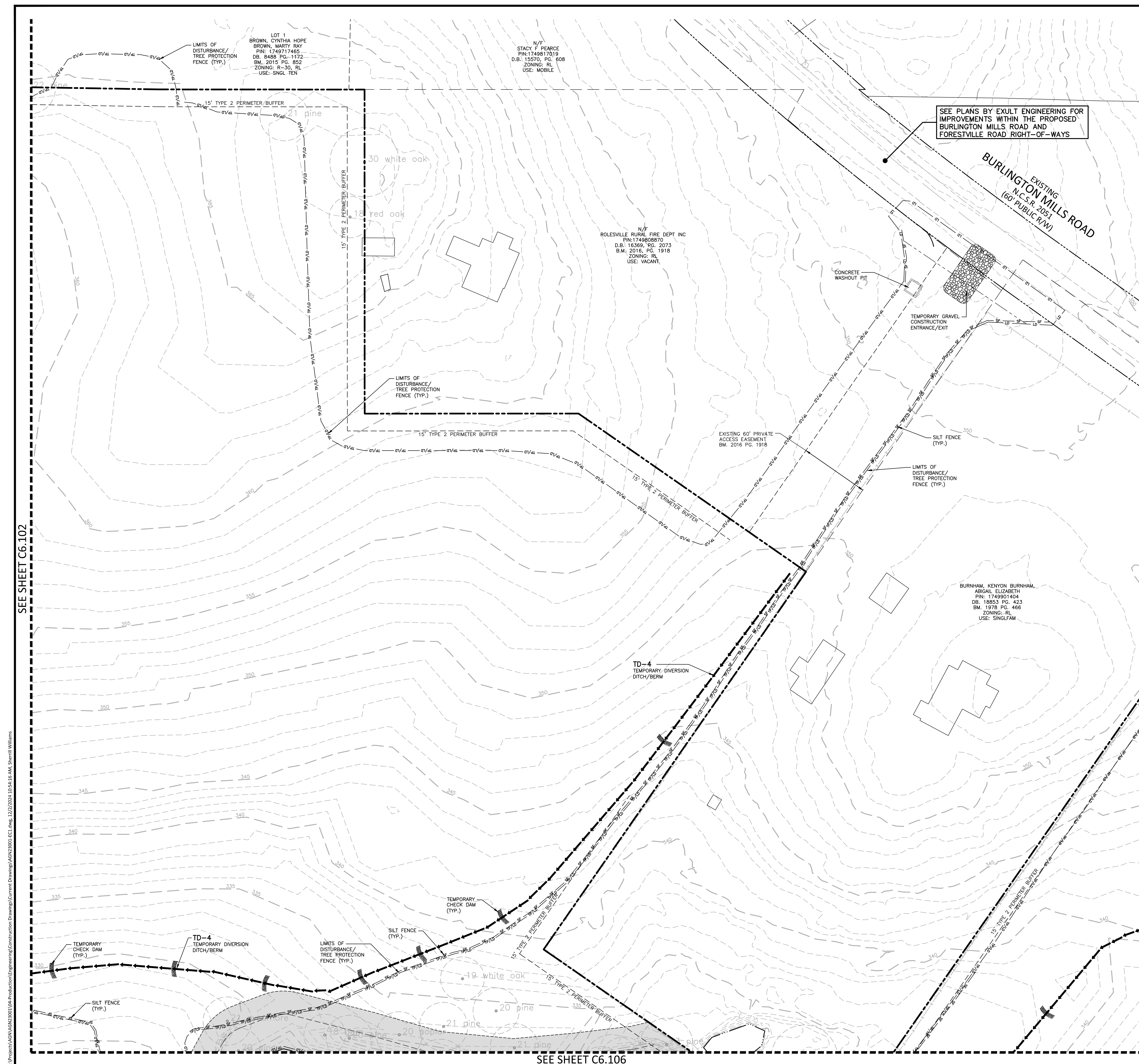
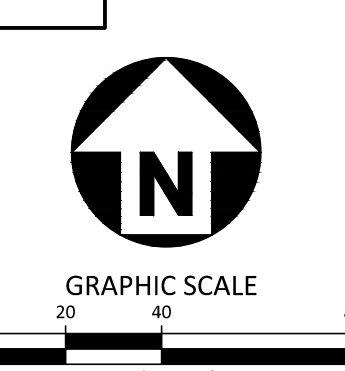
**EROSION CONTROL LEGEND**

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SILT FENCE
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

SEE SHEET C6.107

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEING SPECIFICATIONS

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



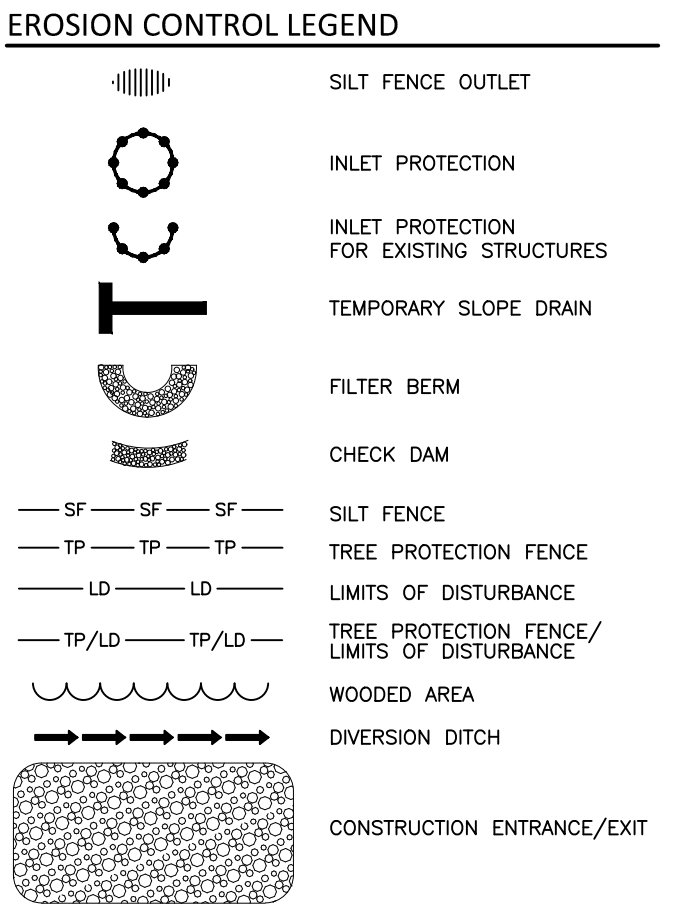
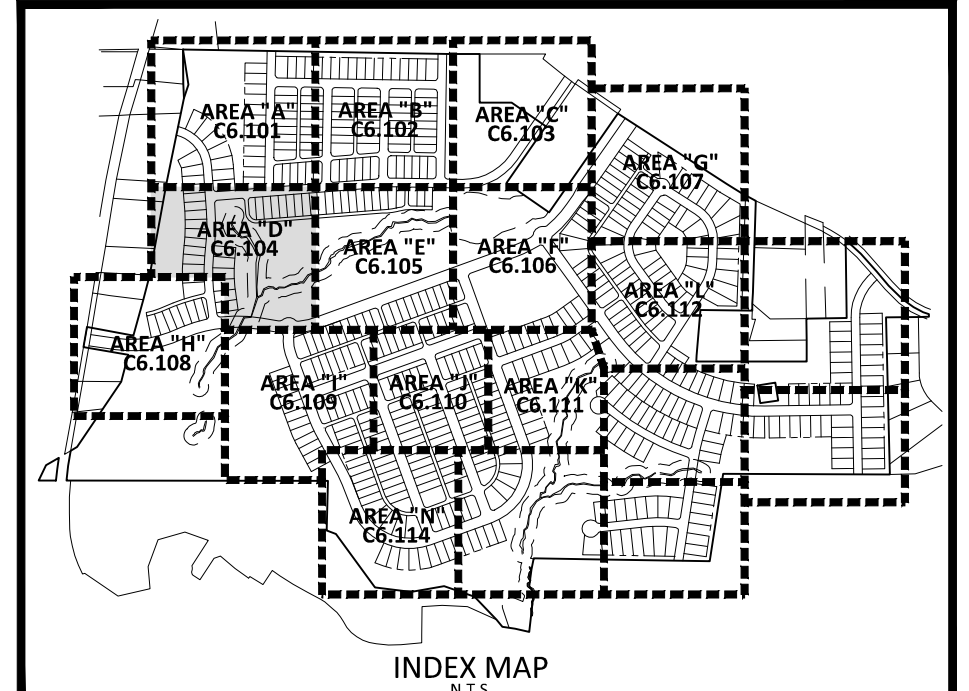
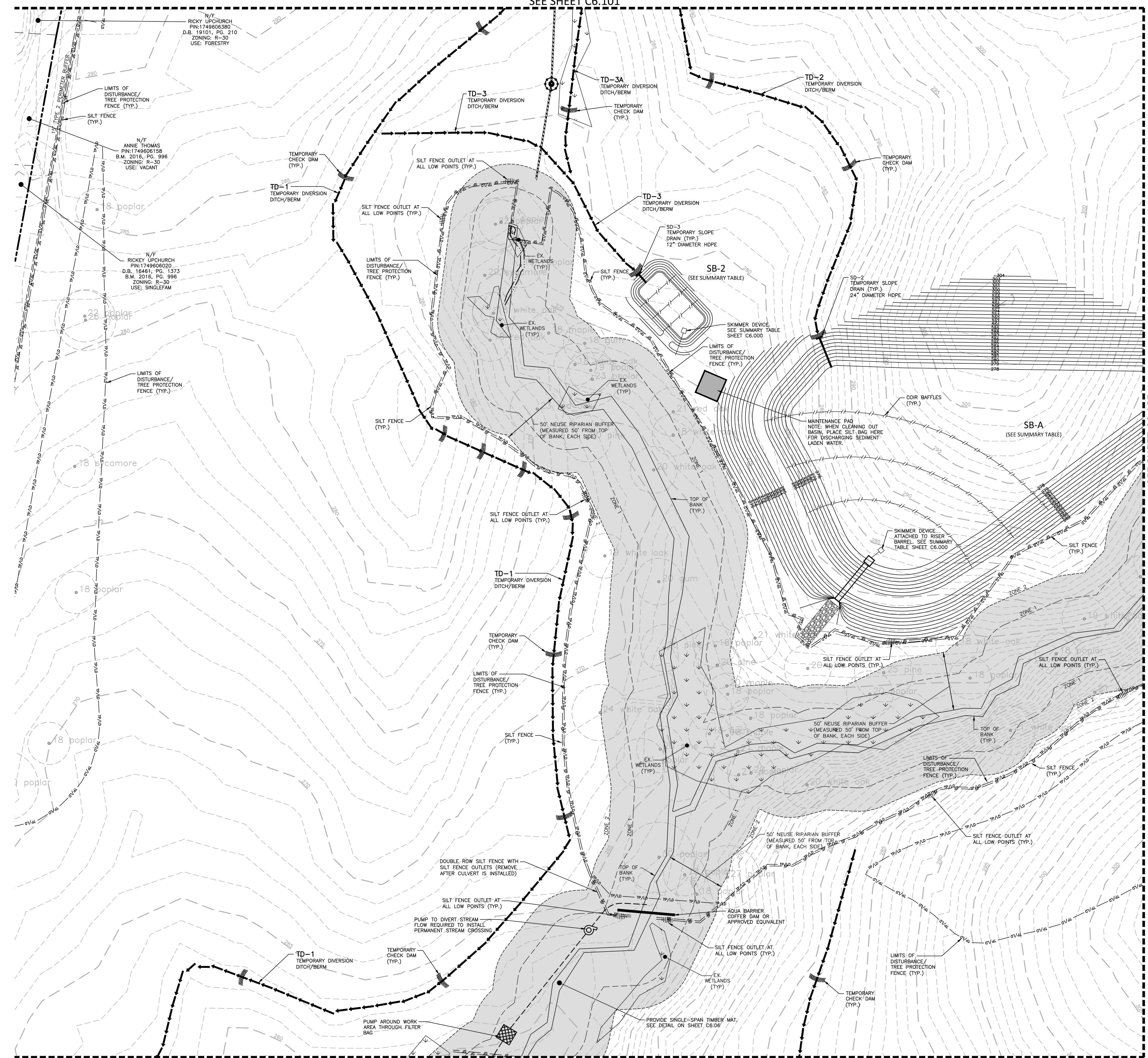
SEE SHEET C6.102

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SEE SHEET C6.106

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**PUMP AROUND NOTE:**  
 CULVERT INSTALLATION OPERATIONS SHALL BE CONDUCTED DURING RELATIVELY DRY PERIODS WHEN HEAVY RAINFALLS ARE NOT EXPECTED DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROVIDE AT LEAST A 2'-3" PUMP THAT WILL CONVEY AT LEAST 140.0 GPM, WHICH IS THE APPROXIMATE BASE FLOW OF THE STREAM. THE PUMP SHALL ALSO BE CAPABLE OF CONVEYING THE REQUIRED FLOW WITH 5'-FEET STATIC HEAD. CONTRACTOR SHALL SUBMIT PUMP SPECIFICATIONS TO THE ENGINEER FOR APPROVAL.

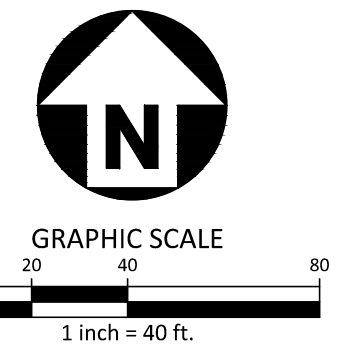
SEE SHEET C6.105

SEE SHEET C6.108

SEE SHEET C6.109

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEING SPECIFICATIONS

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

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**PLAN INFORMATION**

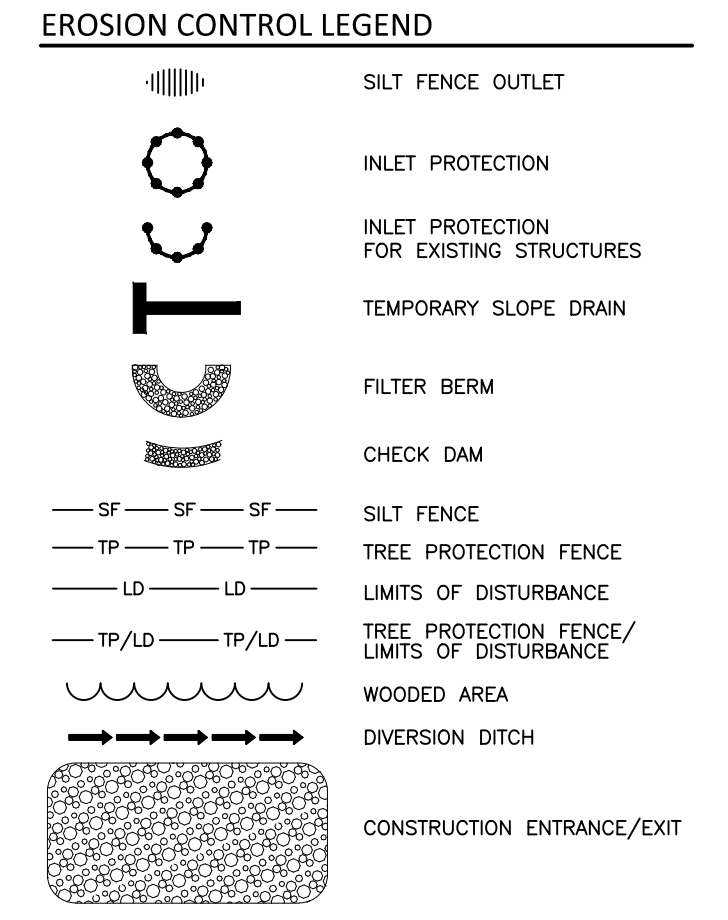
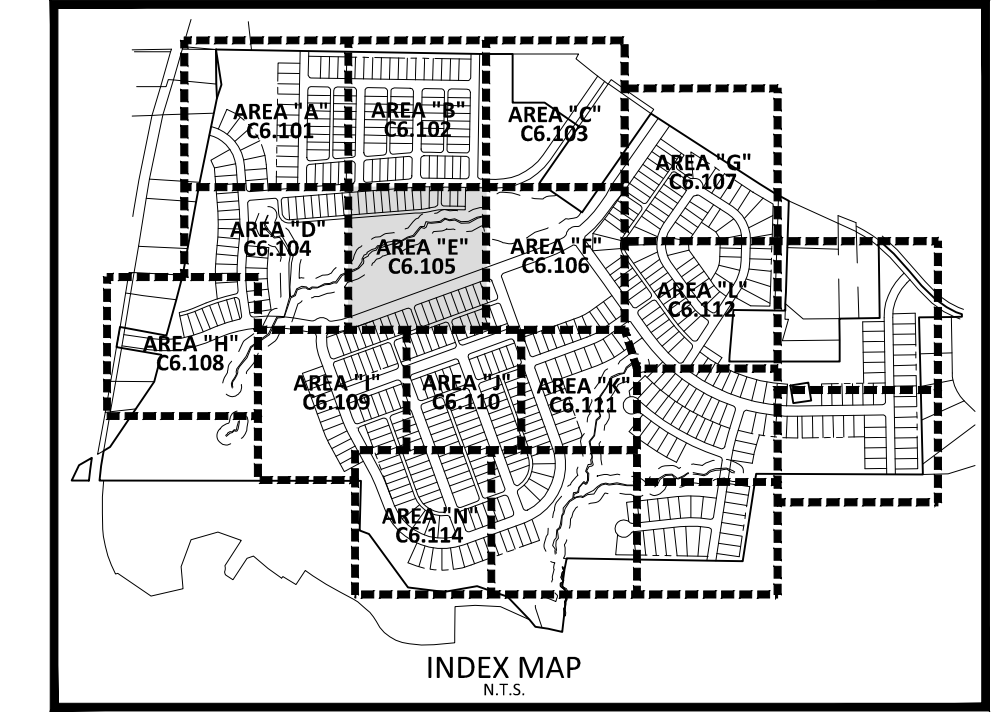
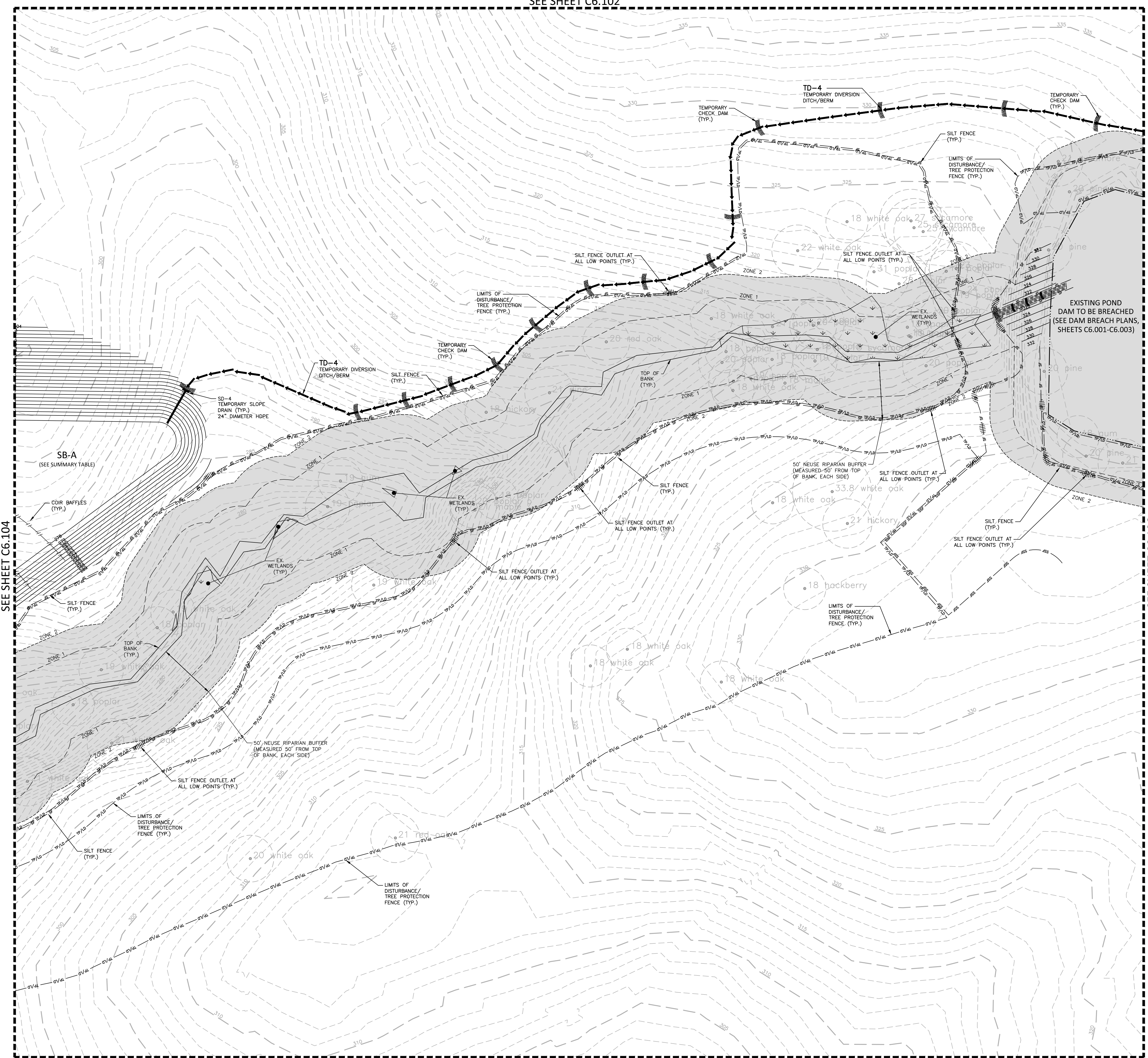
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| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**HEET**  
**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "D"**

**C6.104**

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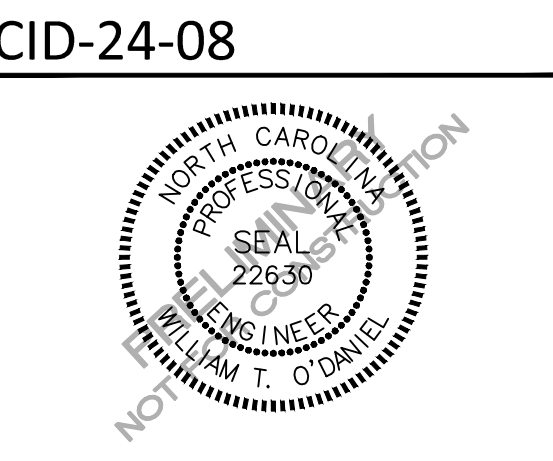


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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA



**REVISIONS**

| NO. | DATE |
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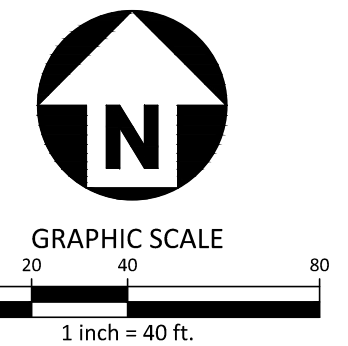
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 CHECKED BY .  
 DRAWN BY .  
 SCALE 1"=40'  
 DATE 12.02.2024

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "E"**  
**C6.105**

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEING SPECIFICATIONS

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

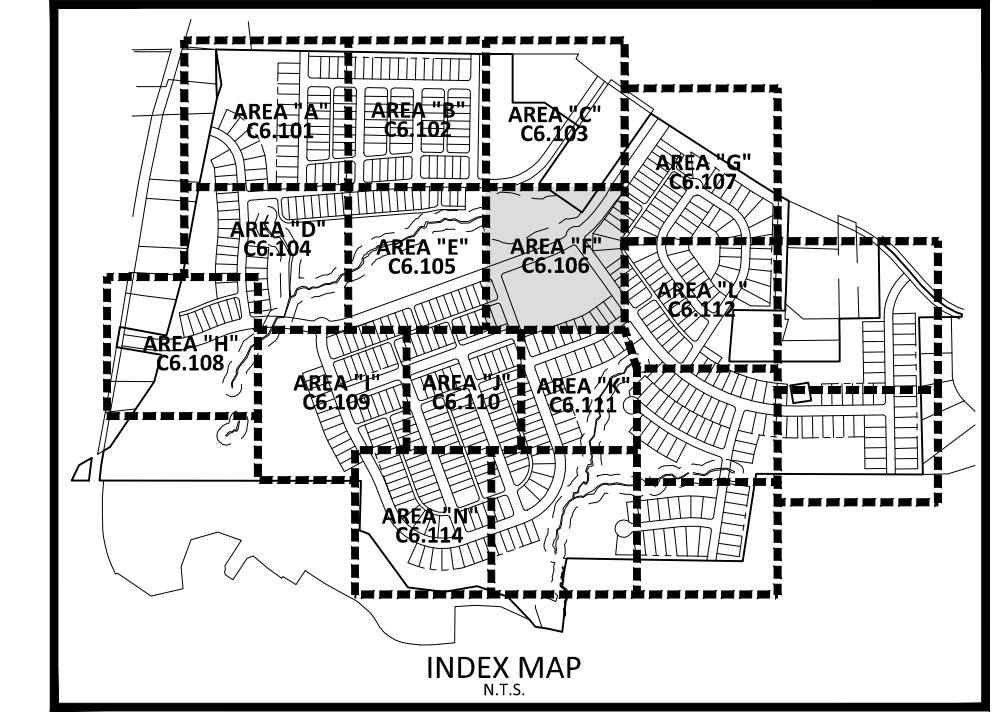
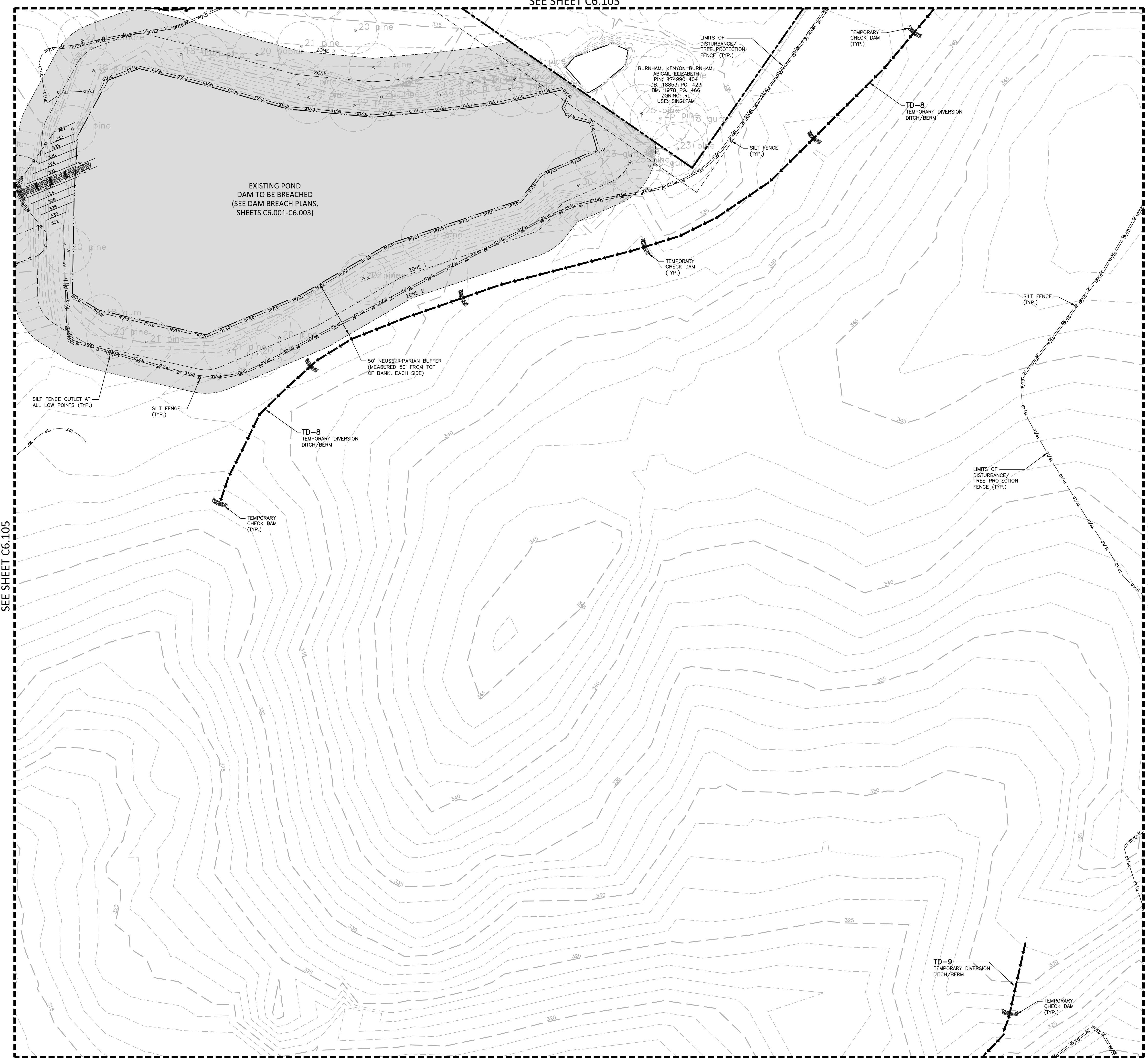


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SEE SHEET C6.104

SEE SHEET C6.106



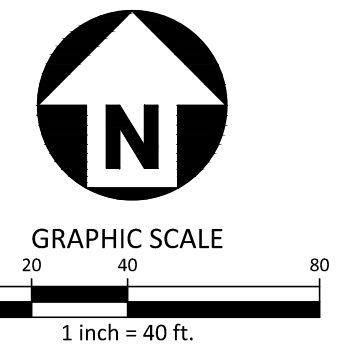


**EROSION CONTROL LEGEND**

|  |   |
|--|---|
|  | SILT FENCE OUTLET                           |
|  | INLET PROTECTION                            |
|  | INLET PROTECTION FOR EXISTING STRUCTURES    |
|  | TEMPORARY SLOPE DRAIN                       |
|  | FILTER BERM                                 |
|  | CHECK DAM                                   |
|  | SILT FENCE                                  |
|  | TREE PROTECTION FENCE                       |
|  | LIMITS OF DISTURBANCE                       |
|  | TREE PROTECTION FENCE/LIMITS OF DISTURBANCE |
|  | WOODED AREA                                 |
|  | DIVERSION DITCH                             |
|  | CONSTRUCTION ENTRANCE/EXIT                  |

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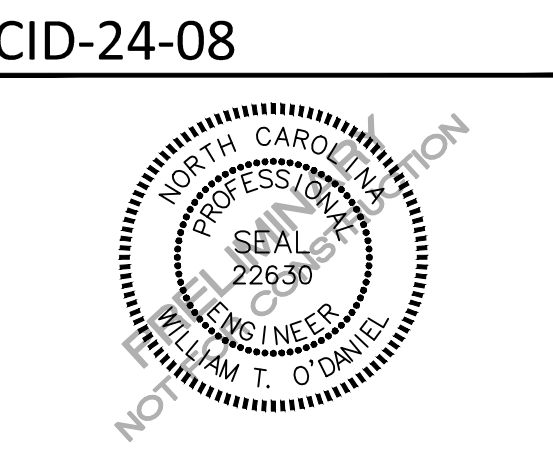


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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA



**REVISIONS**

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**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AGN23001-EC1  
CHECKED BY .  
DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "F"**  
**C6.106**

SEE SHEET C6.105

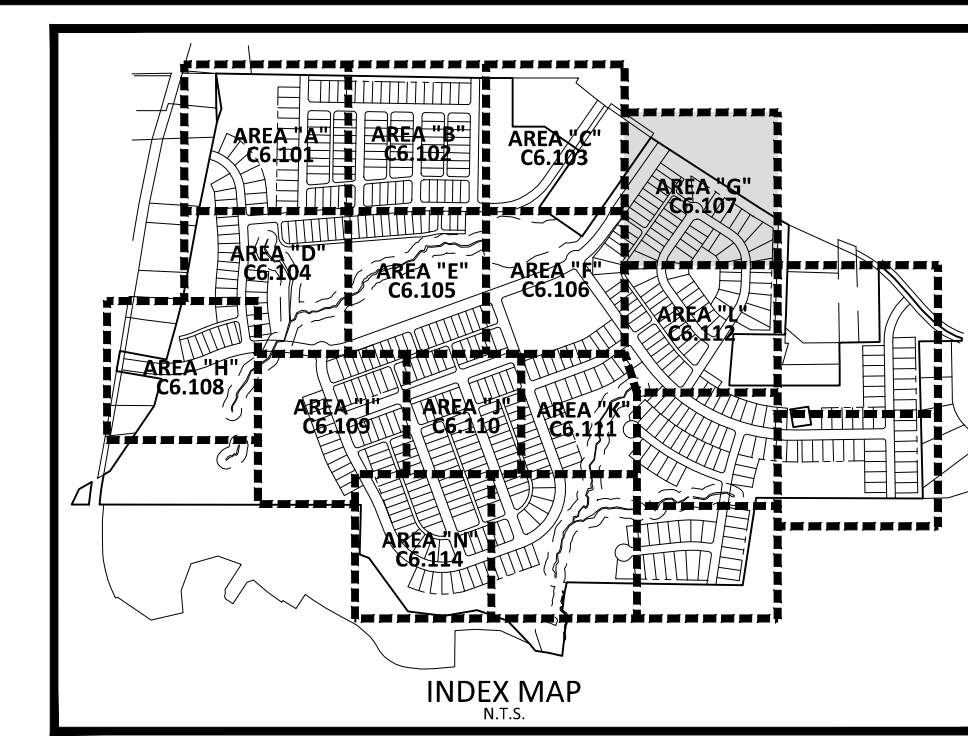
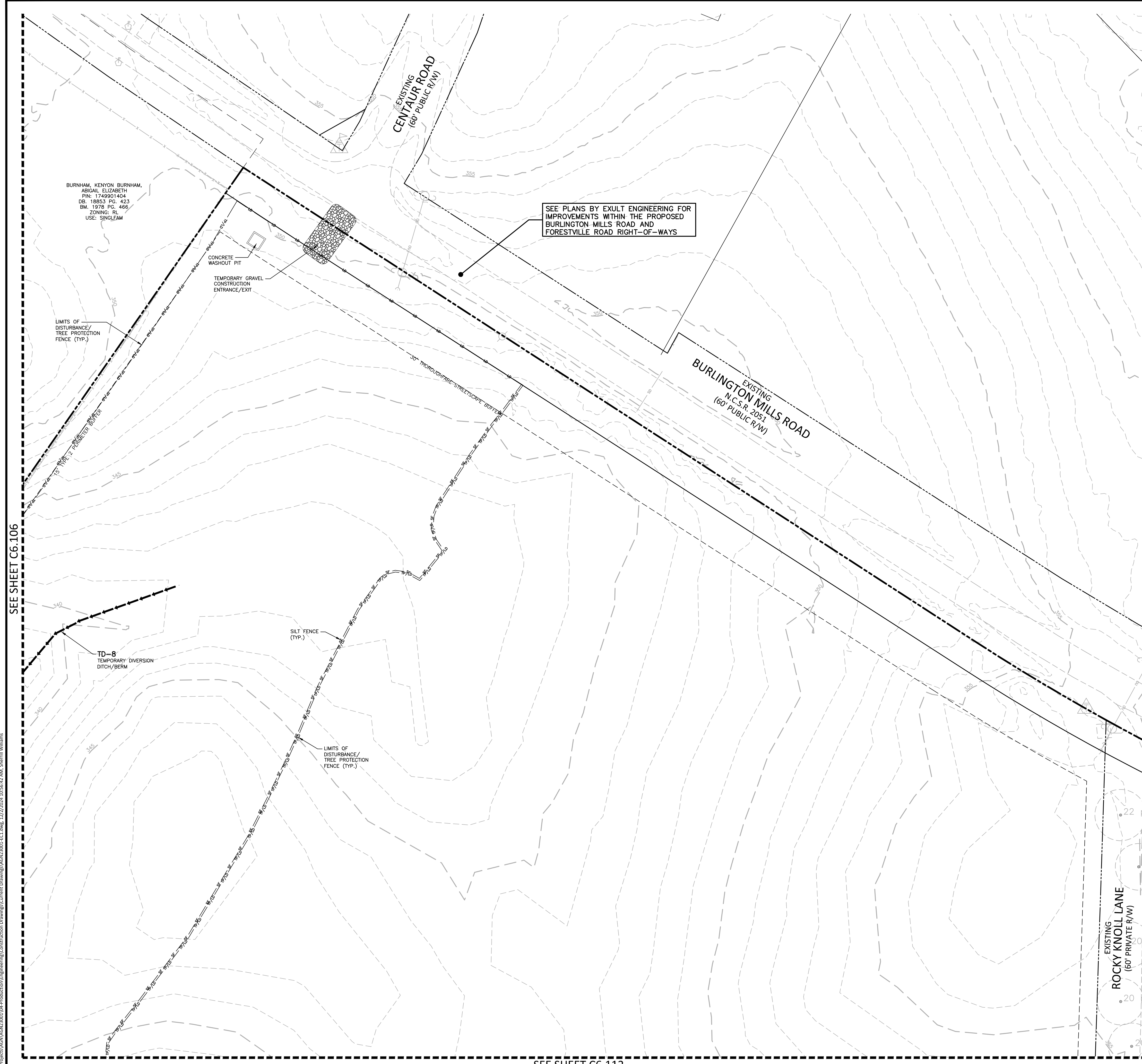
SEE SHEET C6.107

SEE SHEET C6.110

SEE SHEET C6.111

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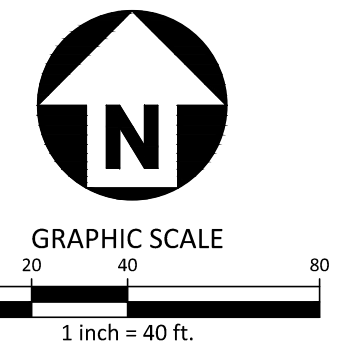


**EROSION CONTROL LEGEND**

|  |   |
|--|---|
|  | SILT FENCE OUTLET                           |
|  | INLET PROTECTION                            |
|  | INLET PROTECTION FOR EXISTING STRUCTURES    |
|  | TEMPORARY SLOPE DRAIN                       |
|  | FILTER BERM                                 |
|  | CHECK DAM                                   |
|  | SILT FENCE                                  |
|  | TREE PROTECTION FENCE                       |
|  | LIMITS OF DISTURBANCE                       |
|  | TREE PROTECTION FENCE/LIMITS OF DISTURBANCE |
|  | WOODED AREA                                 |
|  | DIVERSION DITCH                             |
|  | CONSTRUCTION ENTRANCE/EXIT                  |

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEING SPECIFICATIONS

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



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**PLAN INFORMATION**

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| FILENAME    | AGN23001-EC1 |
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| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "G"**

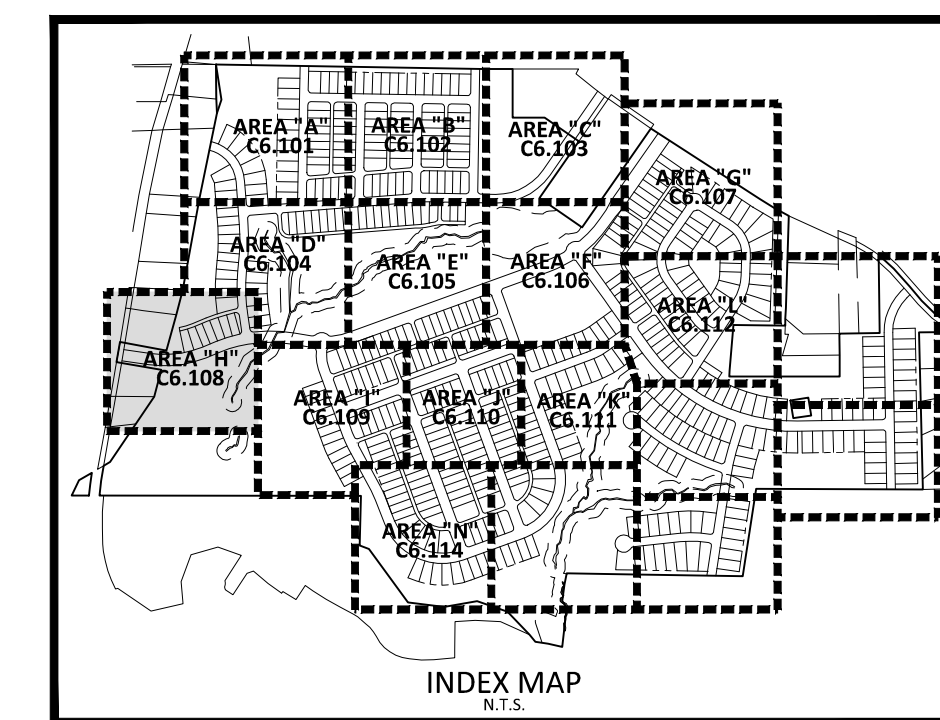
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SEE SHEET C6.106

SEE SHEET C6.112






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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

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**PLAN INFORMATION**






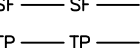
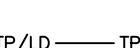






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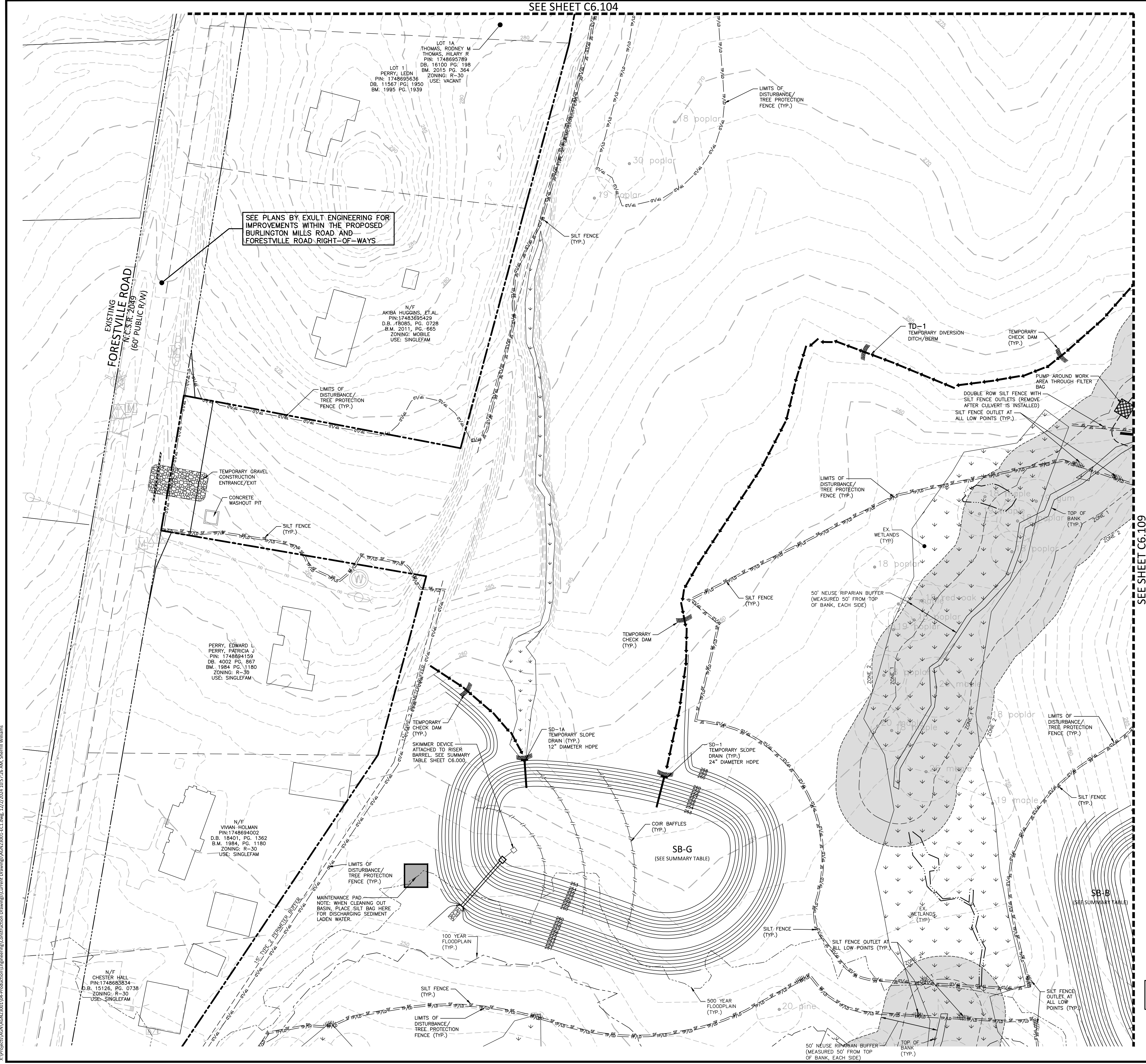
**SEE SHEET C6.108**

**EROSION CONTROL PLAN**  
STAGE 1  
AREA "H"

**C6.108**

**EROSION CONTROL LEGEND**

-  SILT FENCE OUTLET
-  INLET PROTECTION
-  INLET PROTECTION FOR EXISTING STRUCTURES
-  TEMPORARY SLOPE DRAIN
-  FILTER BERM
-  CHECK DAM
-  SILT FENCE
-  TREE PROTECTION FENCE
-  LIMITS OF DISTURBANCE
-  TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
-  WOODED AREA
-  DIVERSION DITCH
-  CONSTRUCTION ENTRANCE/EXIT

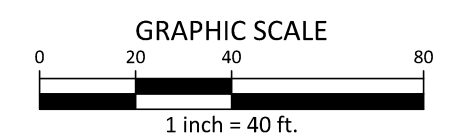
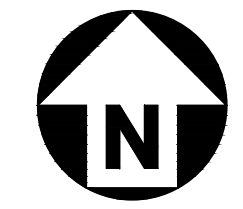


SEE PLANS BY EXULT ENGINEERING FOR IMPROVEMENTS WITHIN THE PROPOSED BURLINGTON MILLS ROAD AND FORESTVILLE ROAD RIGHT-OF-WAYS

SEE SHEET C6.109

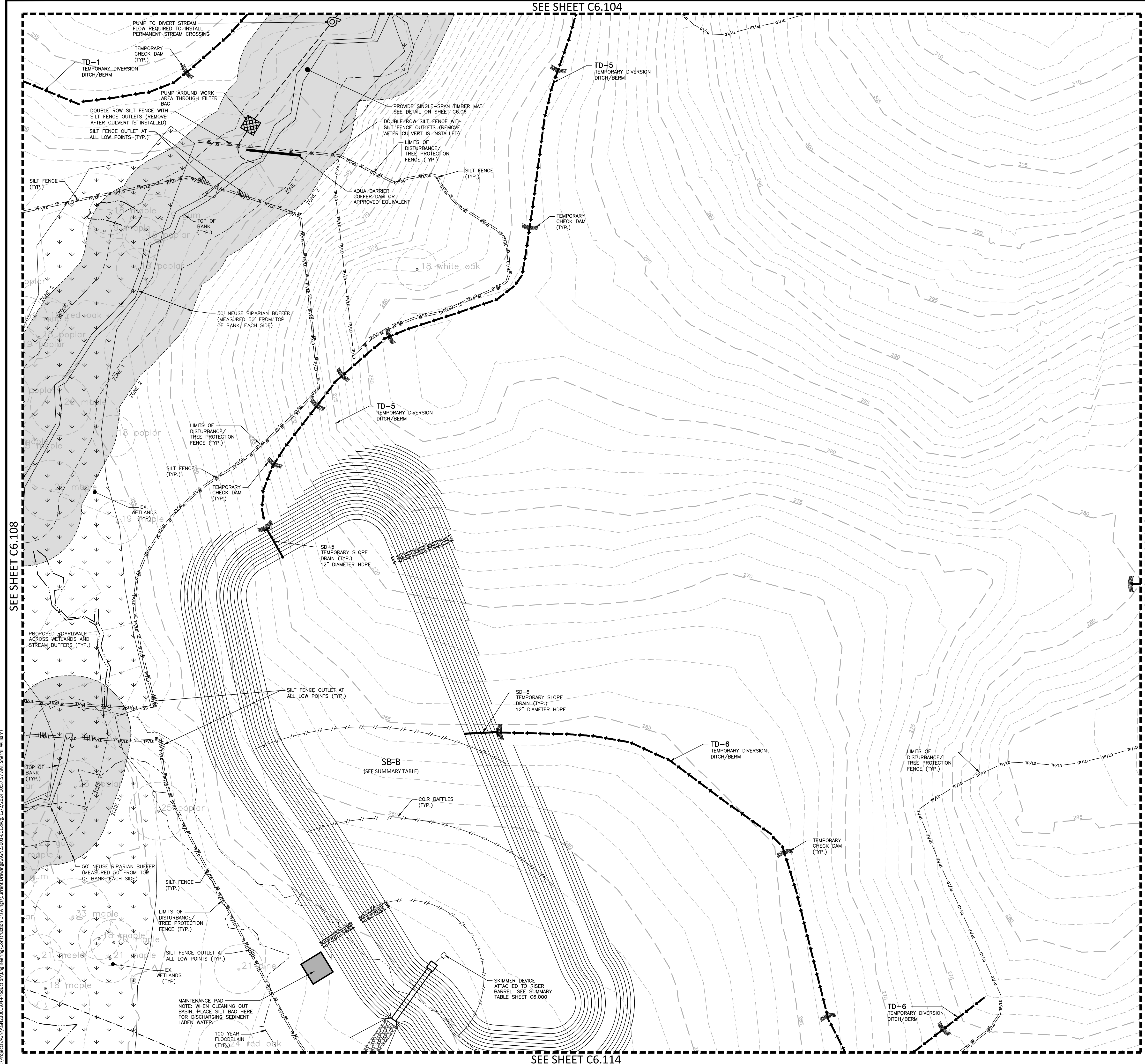
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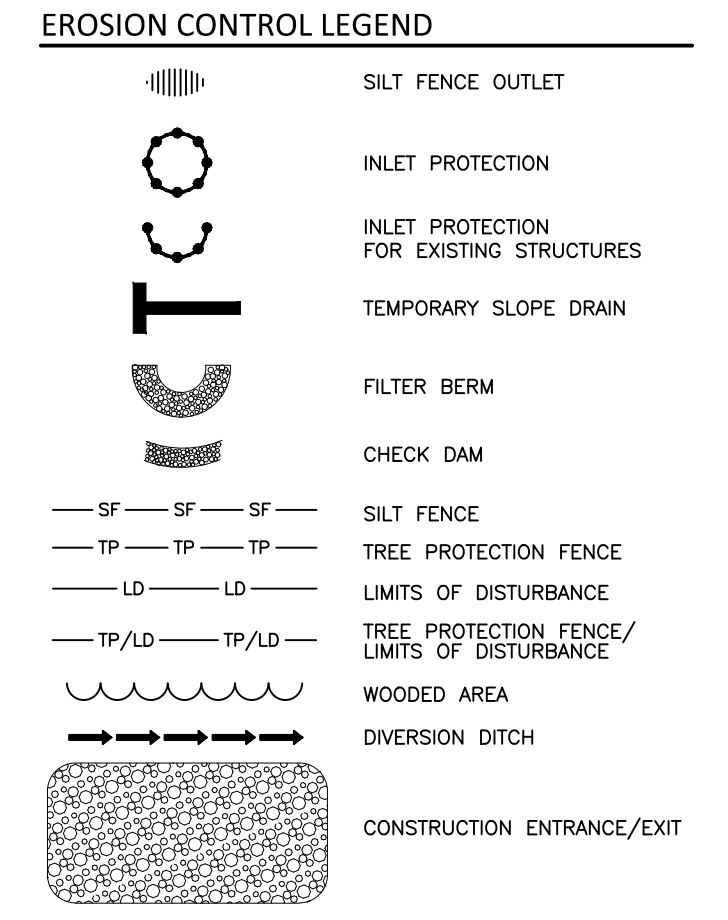
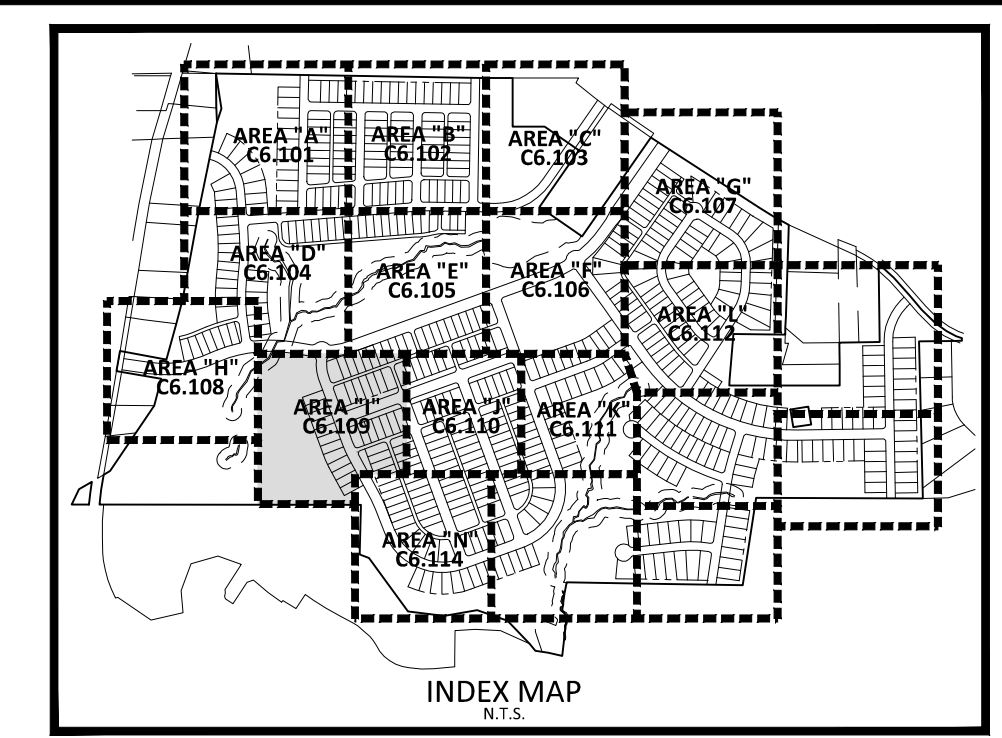




SEE SHEET C6.108

SEE SHEET C6.110

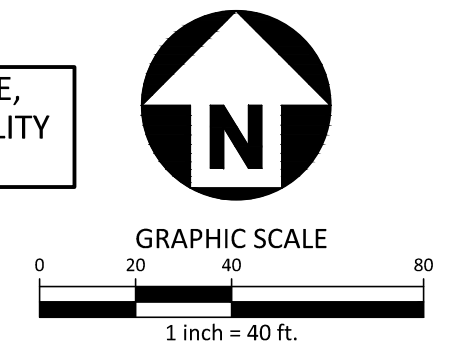
SEE SHEET C6.114



**PUMP AROUND NOTE:**  
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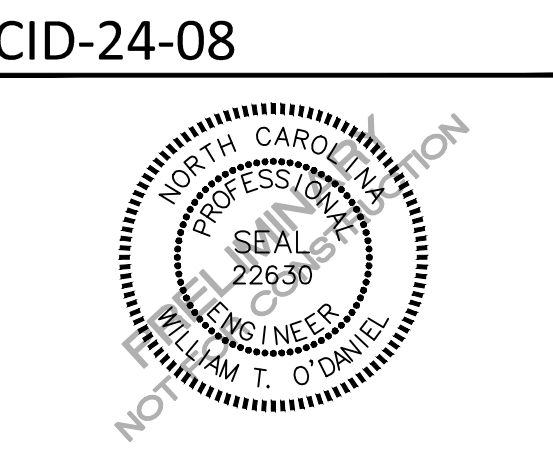


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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA



**REVISIONS**

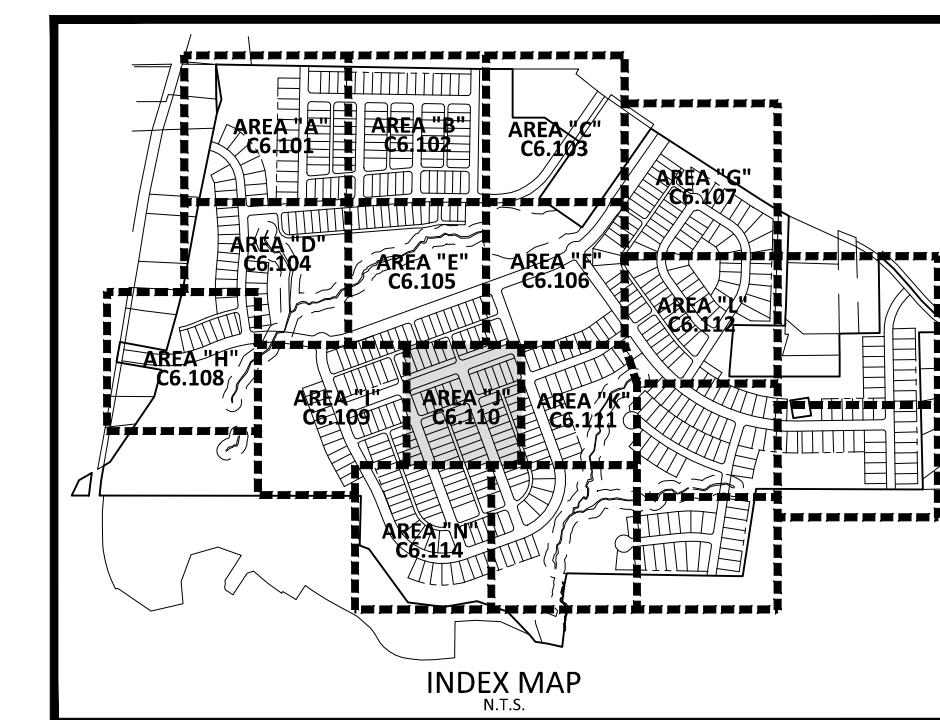
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**PLAN INFORMATION**

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 DATE 12.02.2024

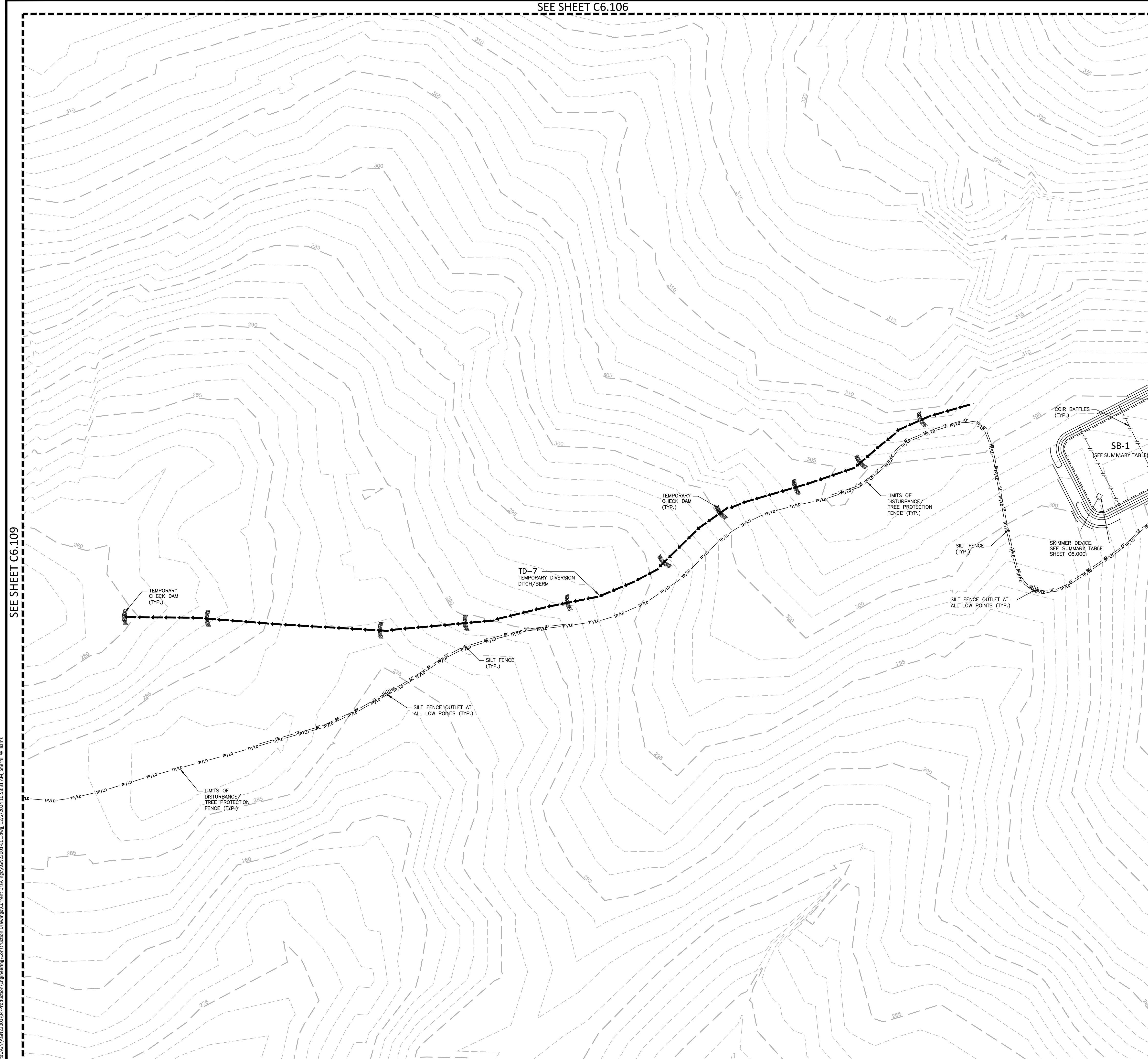
**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "I"**  
**C6.109**





EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SILT FENCE
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT



SEE SHEET C6.109

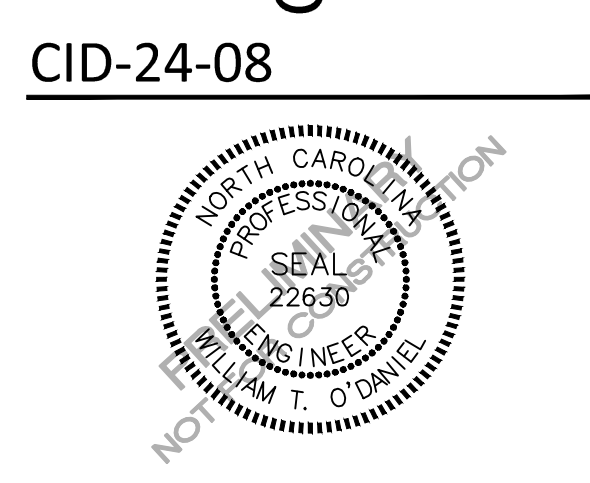
SEE SHEET C6.111

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PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA



**REVISIONS**

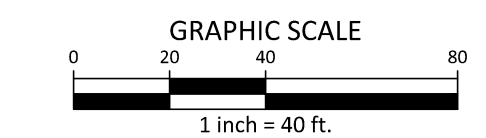
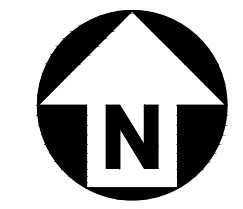
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**PLAN INFORMATION**

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| FILENAME    | AGN23001-EC1 |
| CHECKED BY  | .            |
| DRAWN BY    | .            |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEING SPECIFICATIONS

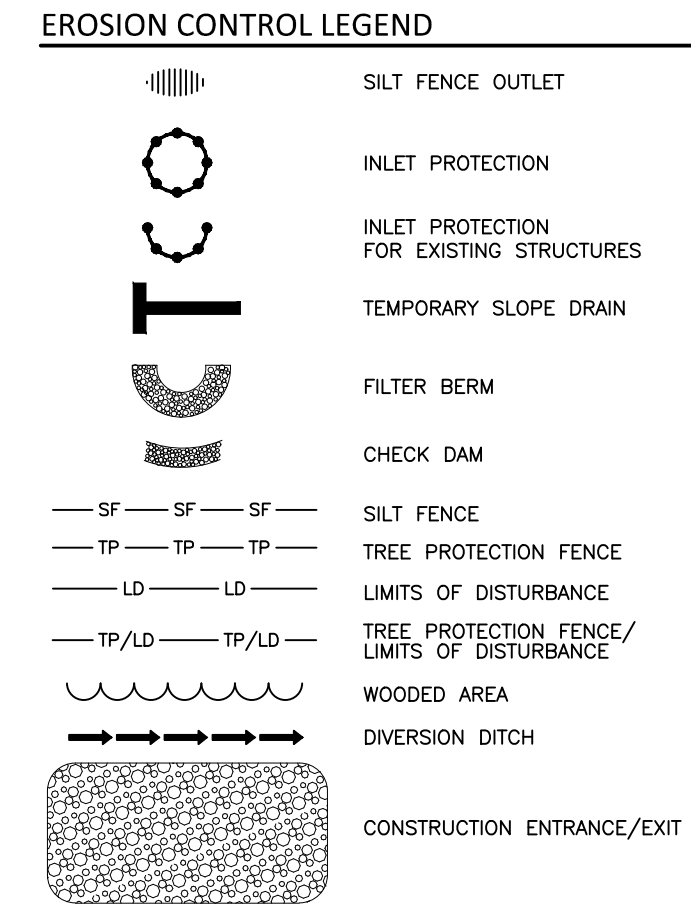
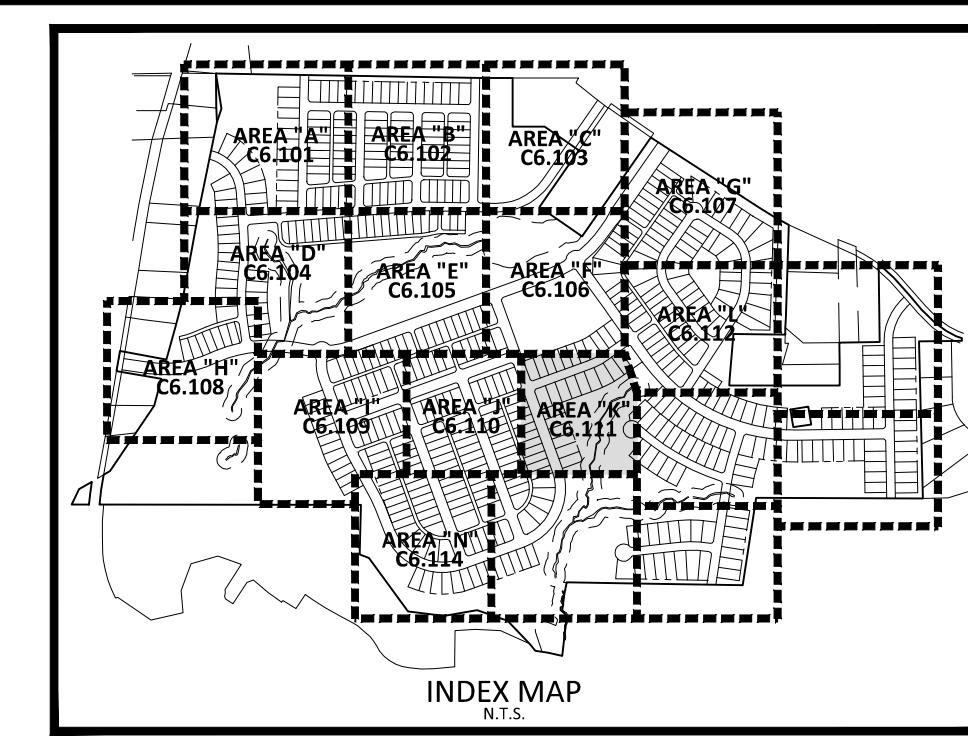
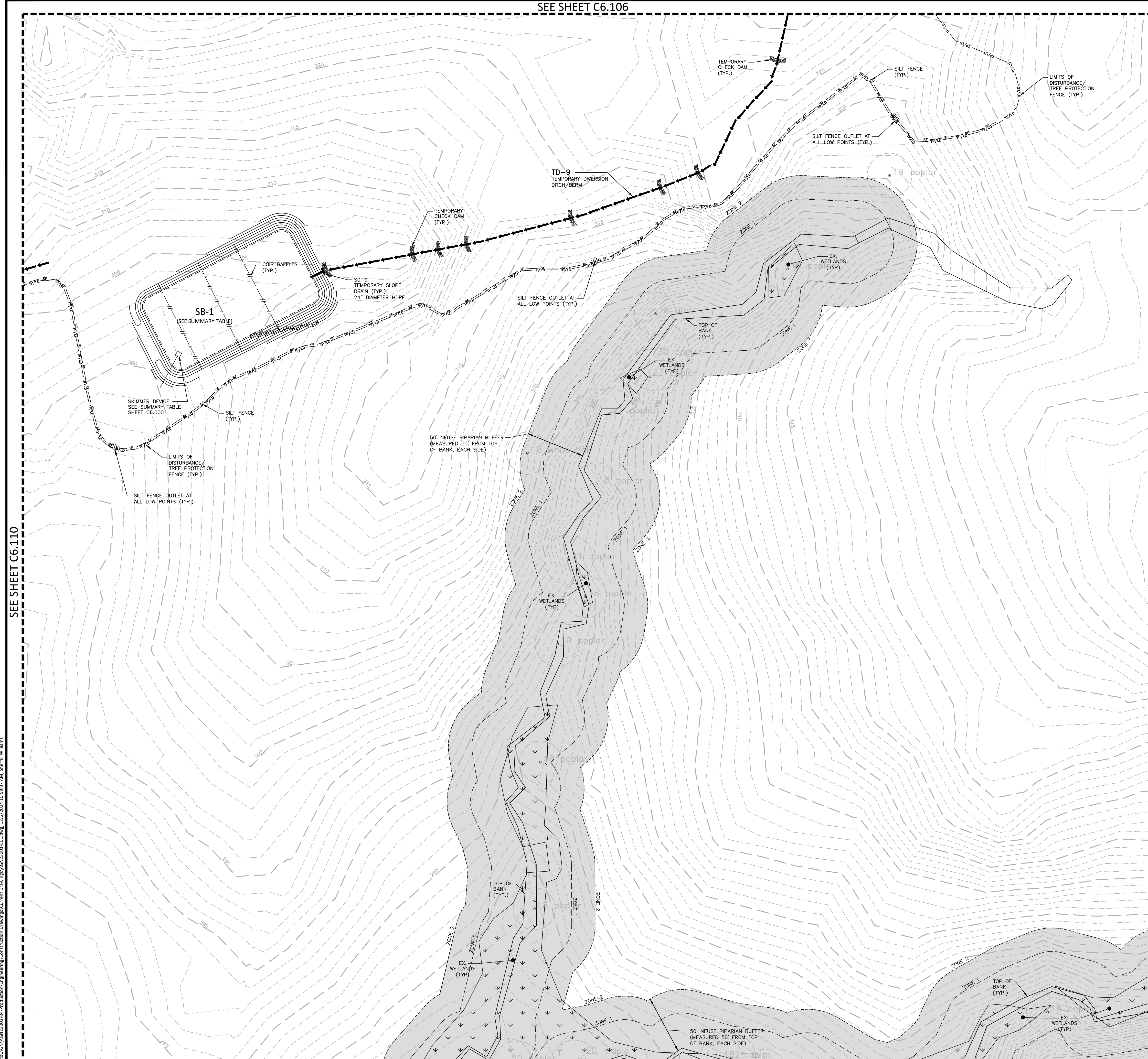
SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "J"**  
**C6.110**

X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-EC1.dwg, 12/2/2024, 10:58:31 AM, Sherill Williams





SEE SHEET C6.110

SEE SHEET C6.116

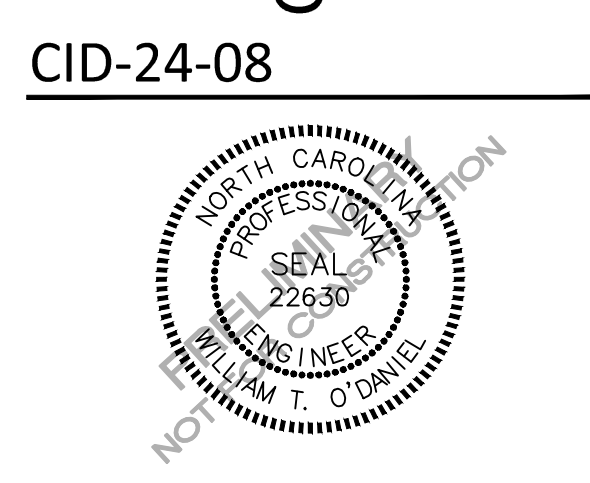
SEE SHEET C6.115

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA



**REVISIONS**

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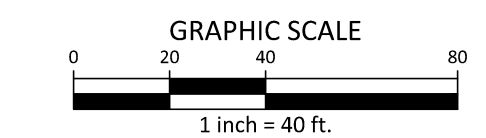
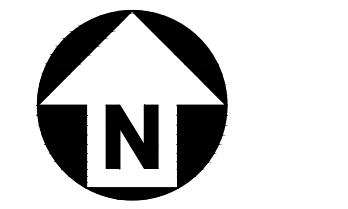
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PROJECT NO. AGN23001  
 FILENAME AGN23001-EC1  
 CHECKED BY .  
 DRAWN BY .  
 SCALE 1"=40'  
 DATE 12.02.2024

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "K"**  
**C6.111**

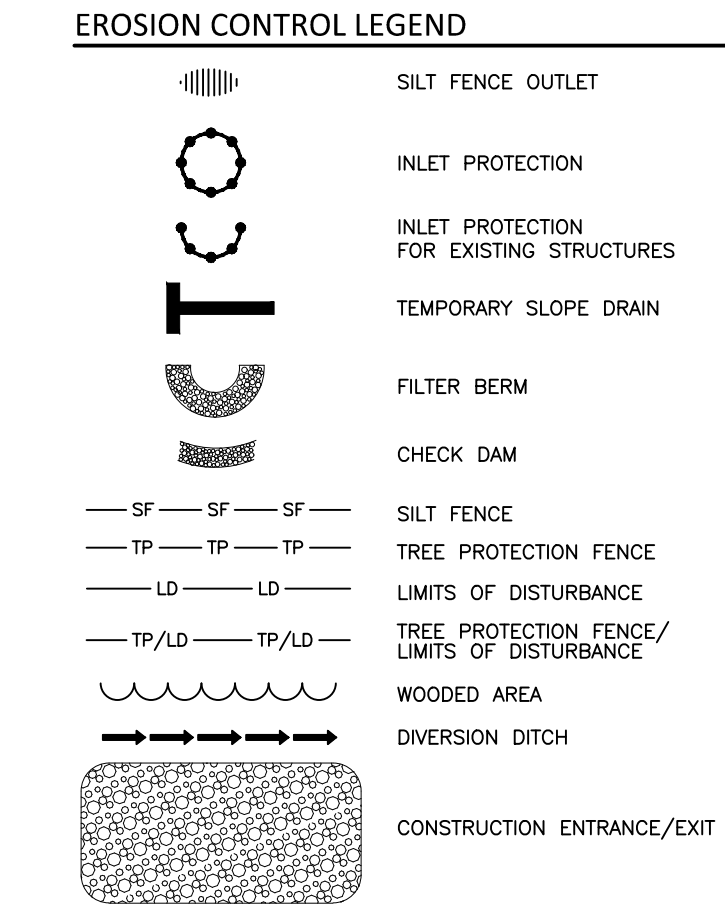
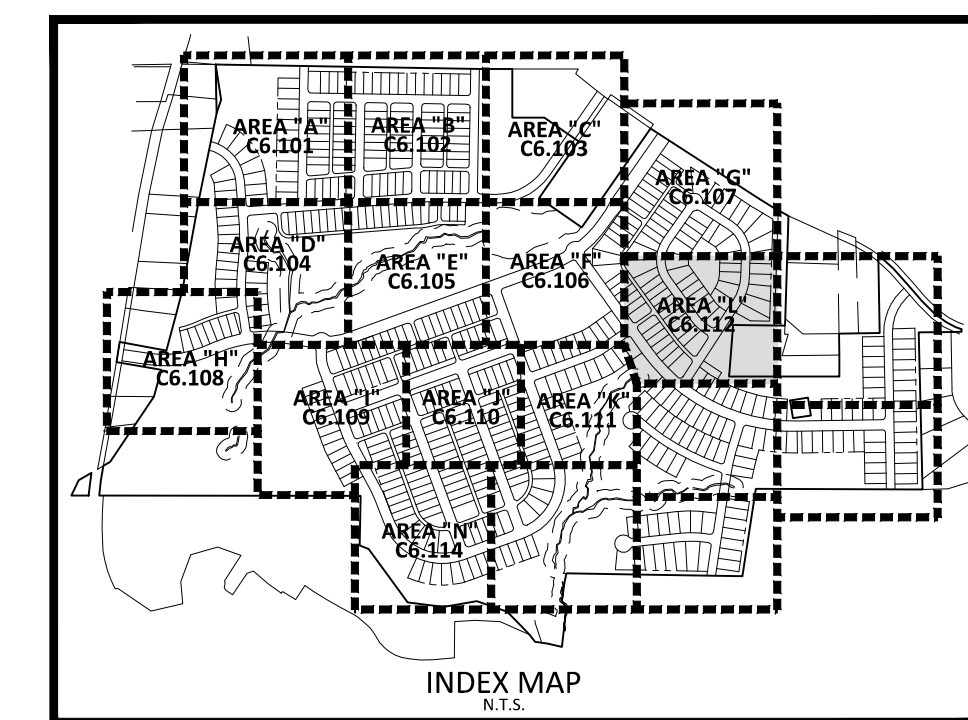
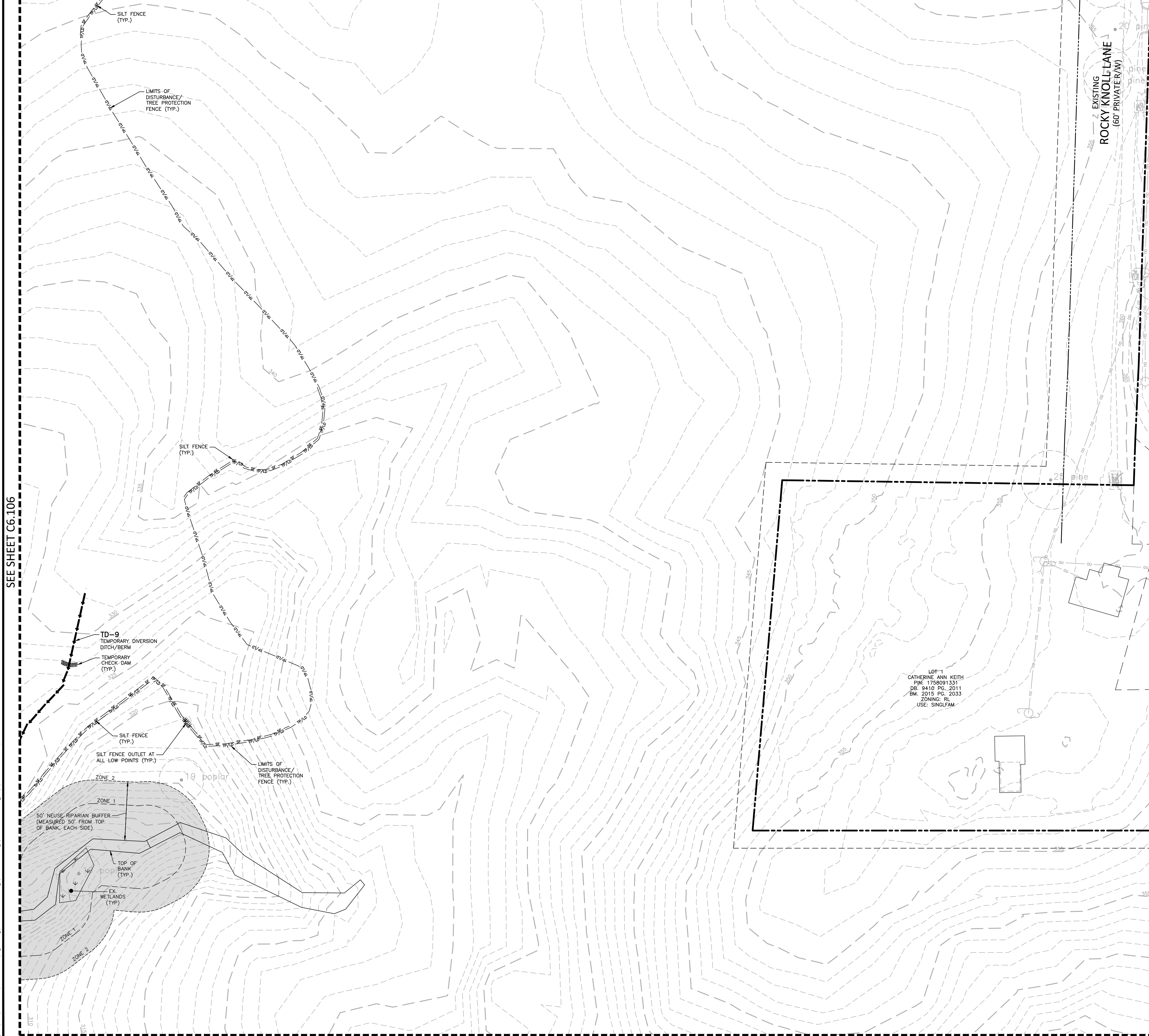
SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEING SPECIFICATIONS

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-EC1.dwg, 12/2/2024, 10:59:07 AM, Sherrill Williams





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**PEARCE FARM - PHASES 1-3**  
CONSTRUCTION DRAWINGS - PACKAGE 1  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

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**REVISIONS**

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| NO. | DATE |
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**PLAN INFORMATION**

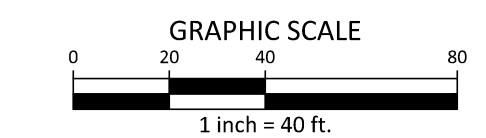
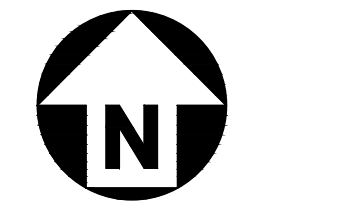
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| FILENAME    | AGN23001-EC1 |
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| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "L"**

**C6.112**

SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEING SPECIFICATIONS

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



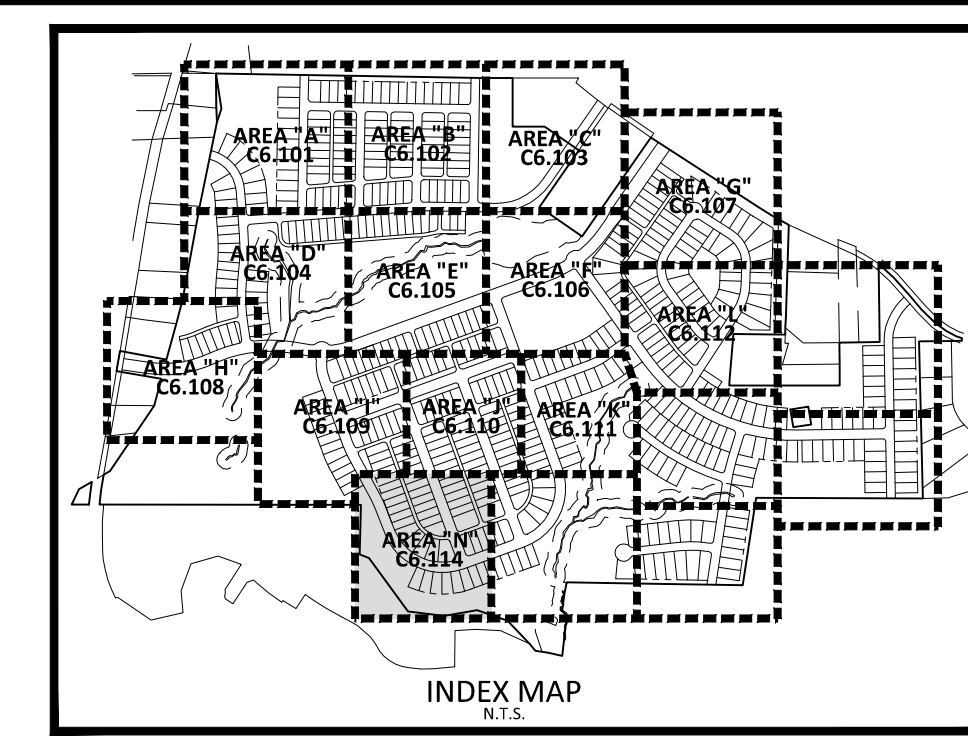
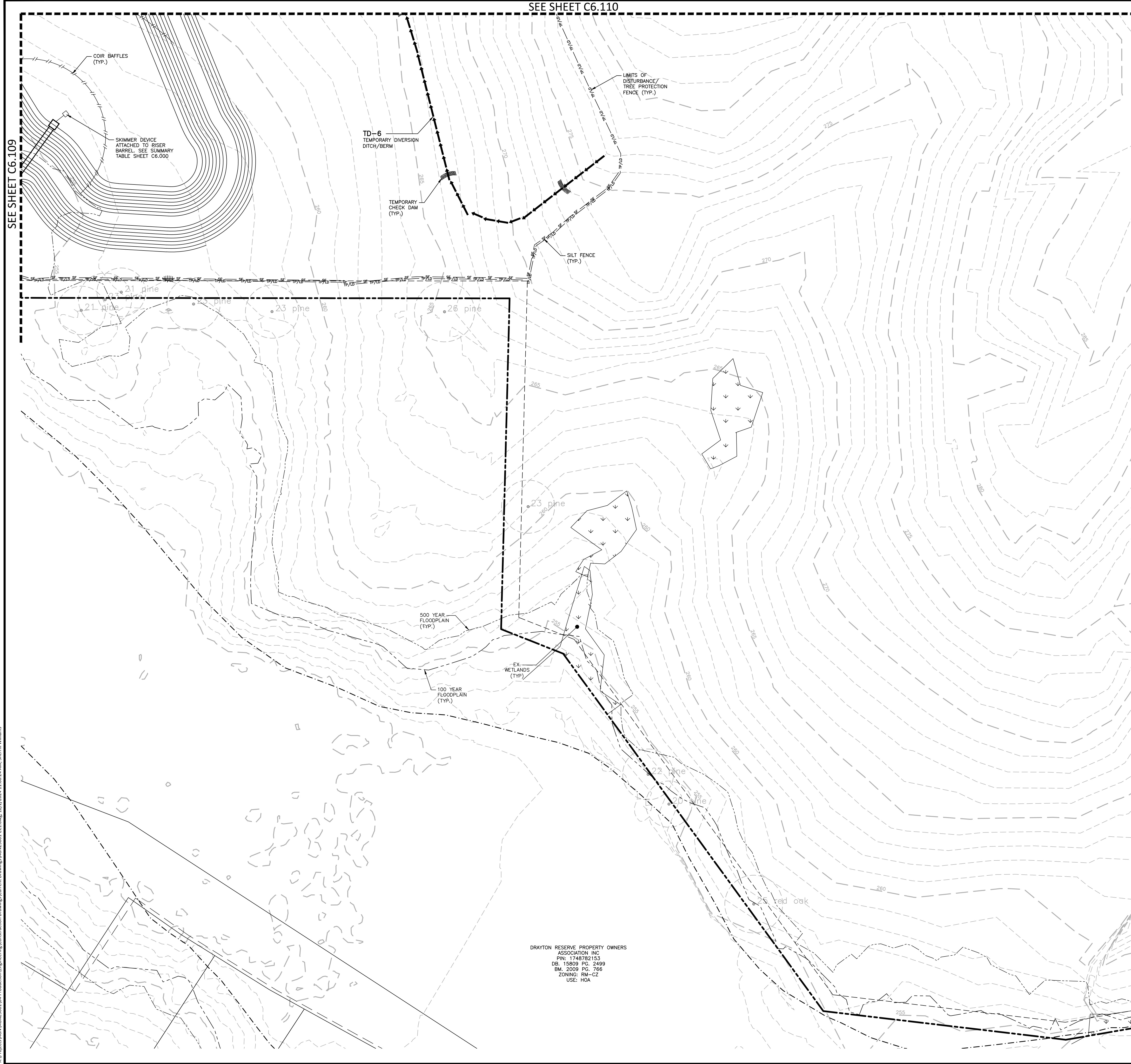
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SEE SHEET C6.110

SEE SHEET C6.109

SEE SHEET C6.115



**EROSION CONTROL LEGEND**

|  |   |
|--|---|
|  | SILT FENCE OUTLET                           |
|  | INLET PROTECTION                            |
|  | INLET PROTECTION FOR EXISTING STRUCTURES    |
|  | TEMPORARY SLOPE DRAIN                       |
|  | FILTER BERM                                 |
|  | CHECK DAM                                   |
|  | SILT FENCE                                  |
|  | TREE PROTECTION FENCE                       |
|  | LIMITS OF DISTURBANCE                       |
|  | TREE PROTECTION FENCE/LIMITS OF DISTURBANCE |
|  | WOODED AREA                                 |
|  | DIVERSION DITCH                             |
|  | CONSTRUCTION ENTRANCE/EXIT                  |

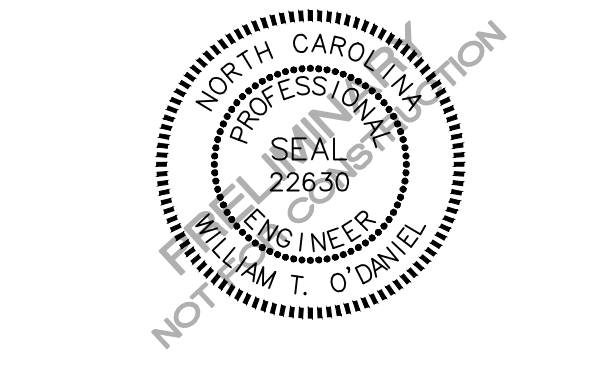
**McADAMS**  
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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
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**PLAN INFORMATION**

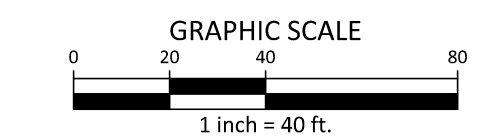
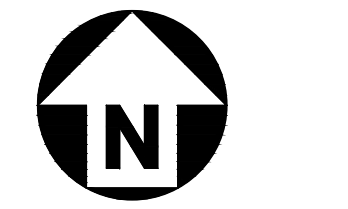
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| FILENAME    | AGN23001-EC1 |
| CHECKED BY  | .            |
| DRAWN BY    | .            |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 1**  
**AREA "N"**

**C6.114**

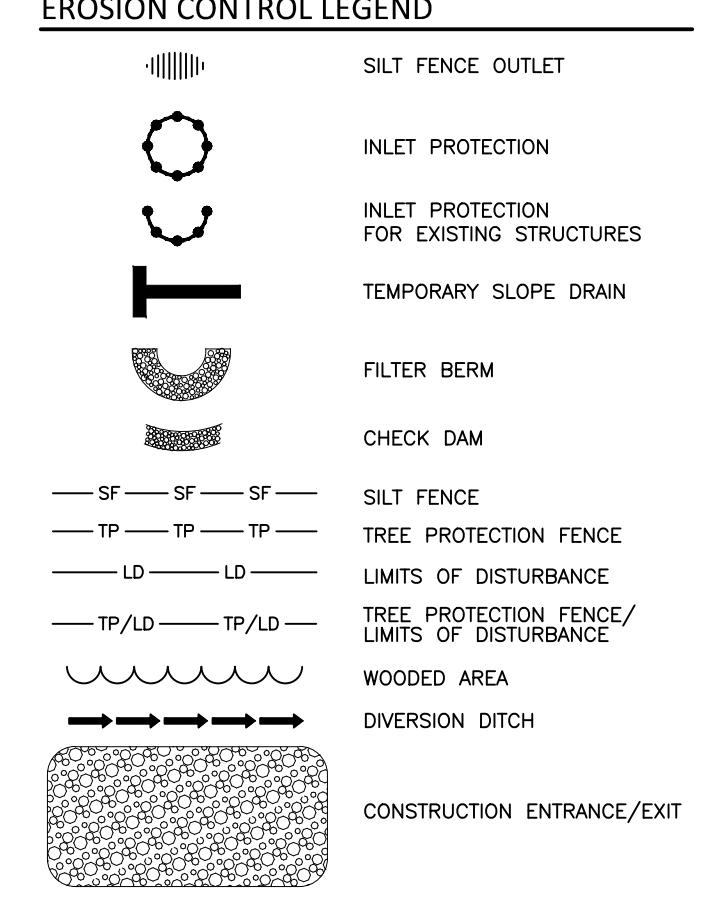
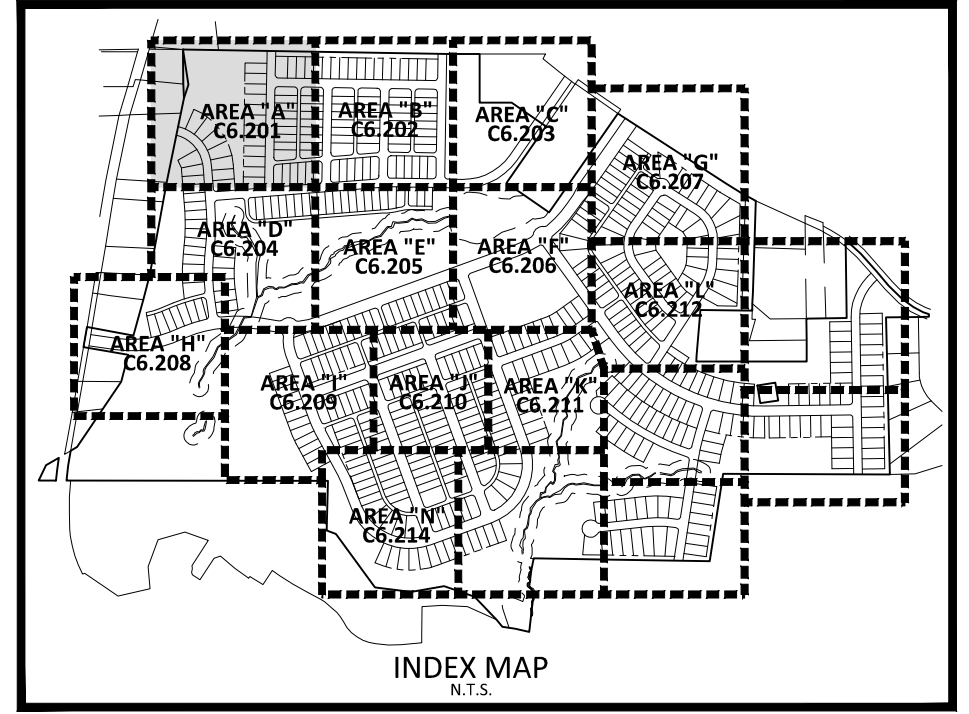
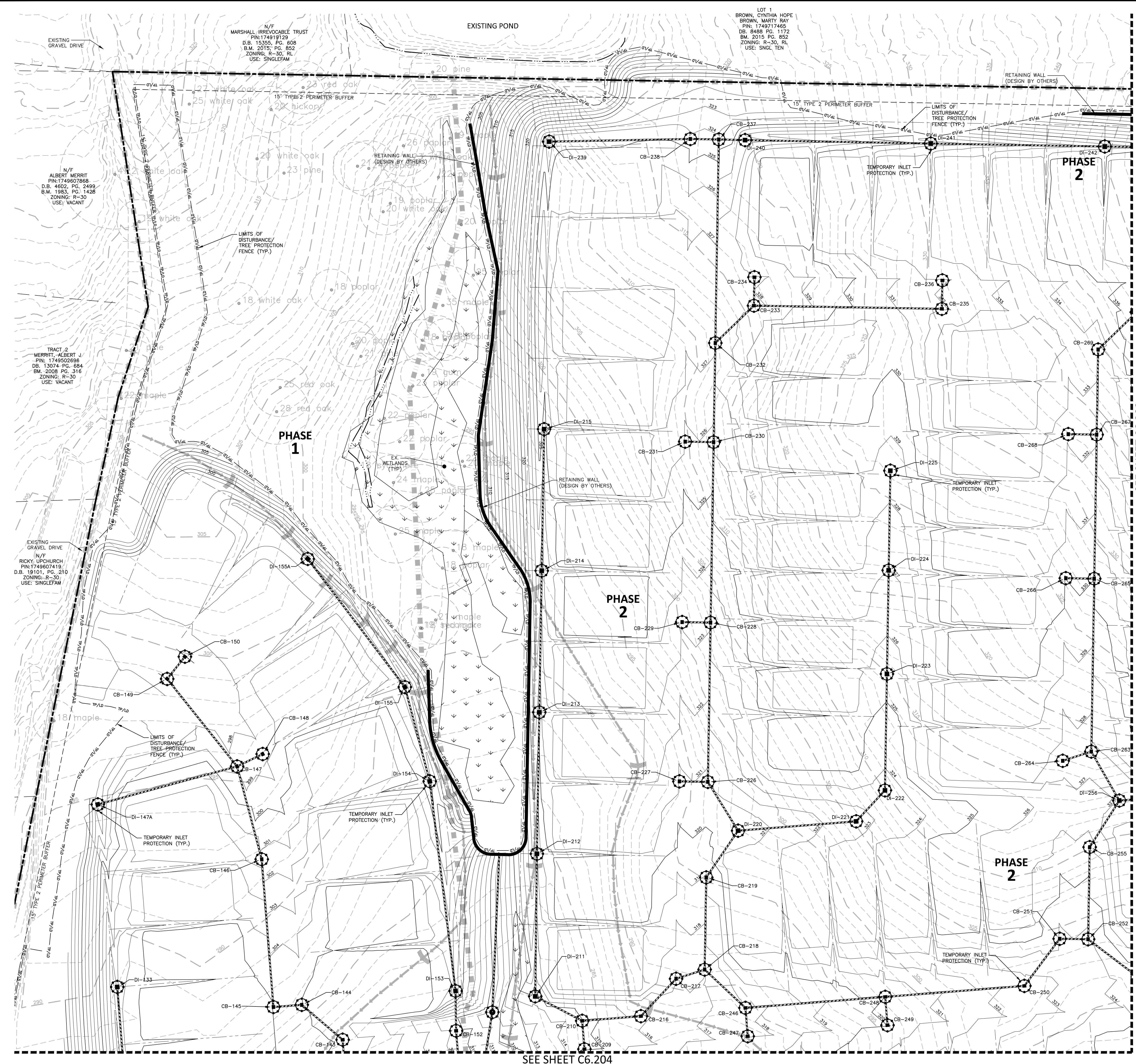
SEE SHEET C6.000 FOR ALL EROSION CONTROL NOTES, CONSTRUCTION SEQUENCING, SEDIMENT BASIN AND TEMPORARY DIVERSION DITCH DATA, AND SEEING SPECIFICATIONS

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



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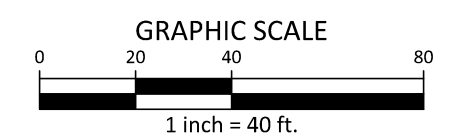
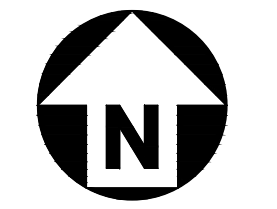




SEE SHEET C6.202

SEE SHEET C6.204

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

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**PLAN INFORMATION**

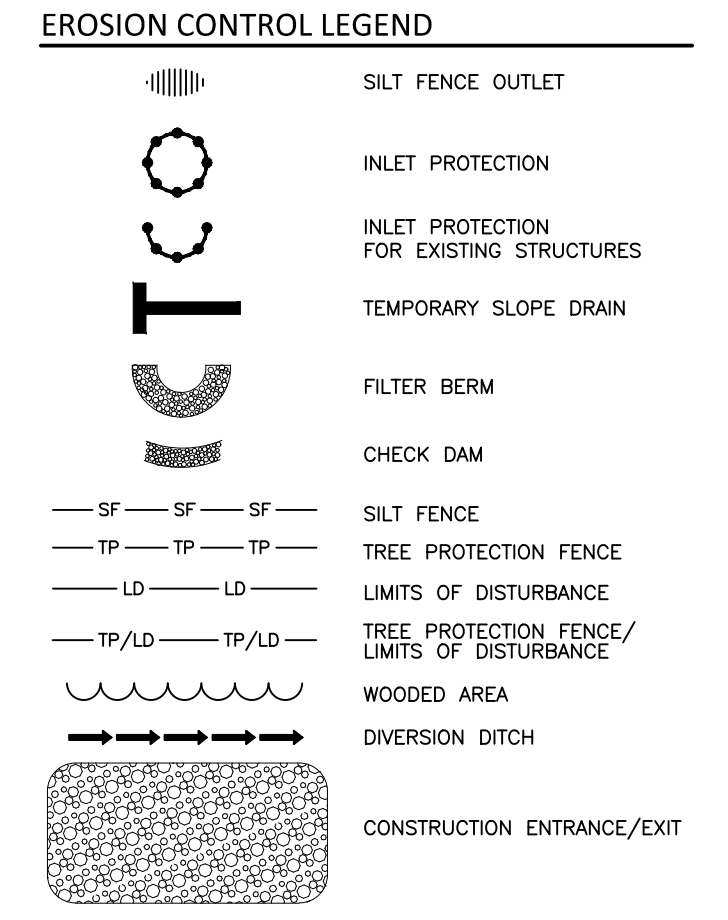
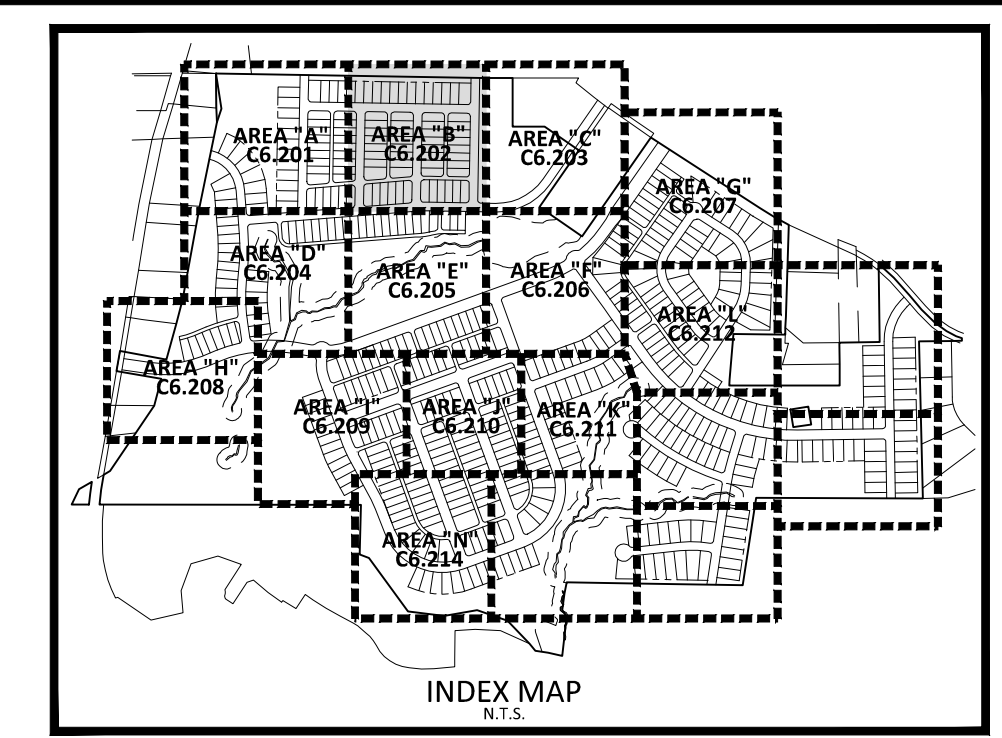
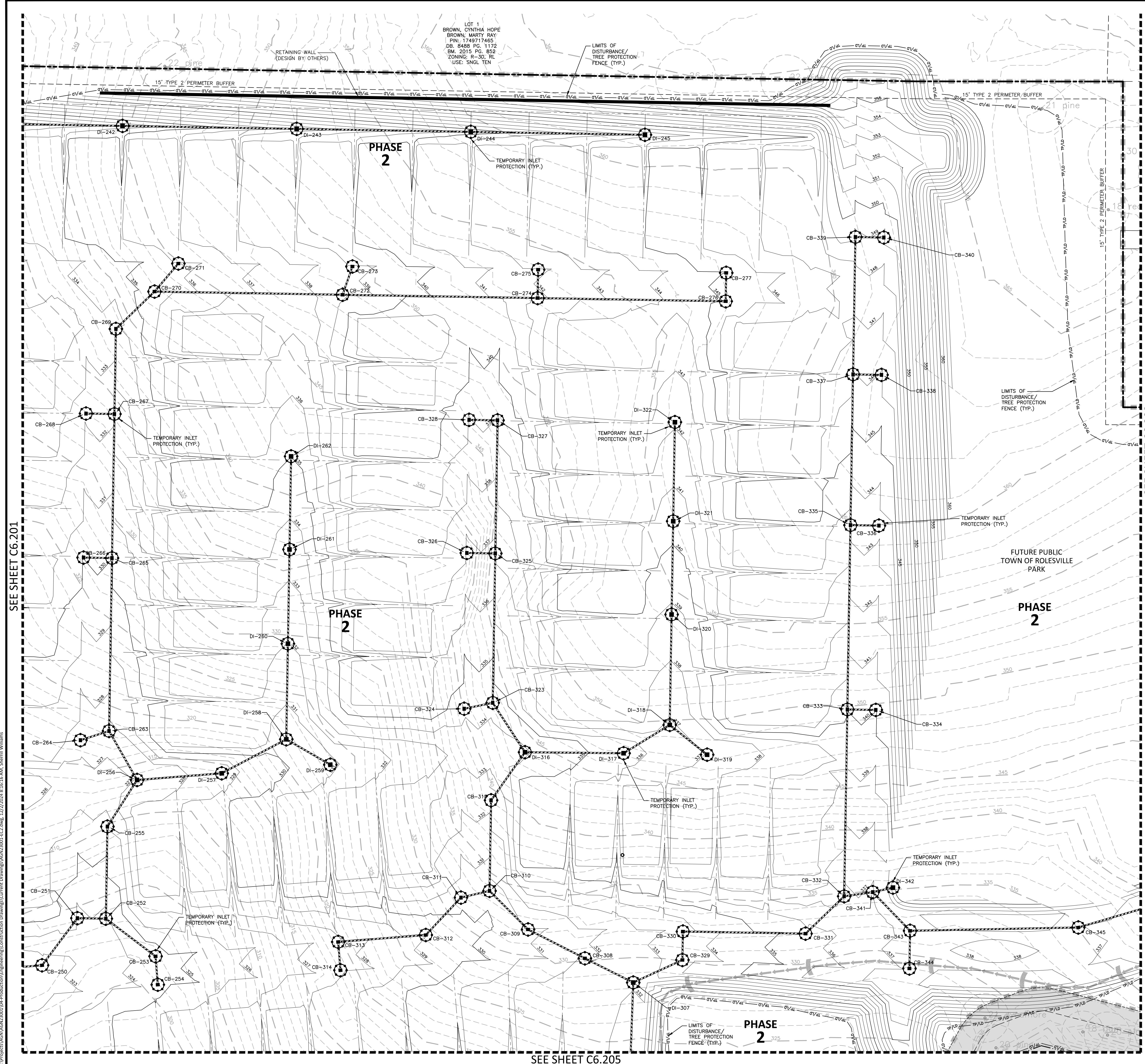
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| DATE        | 12.02.2024   |

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "A"**

**C6.201**

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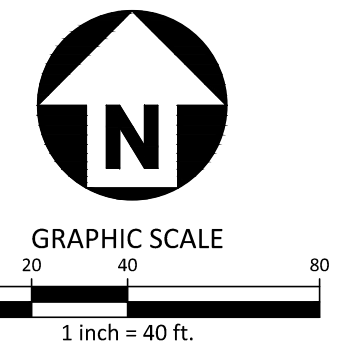


SEE SHEET C6.203

SEE SHEET C6.201

SEE SHEET C6.205

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

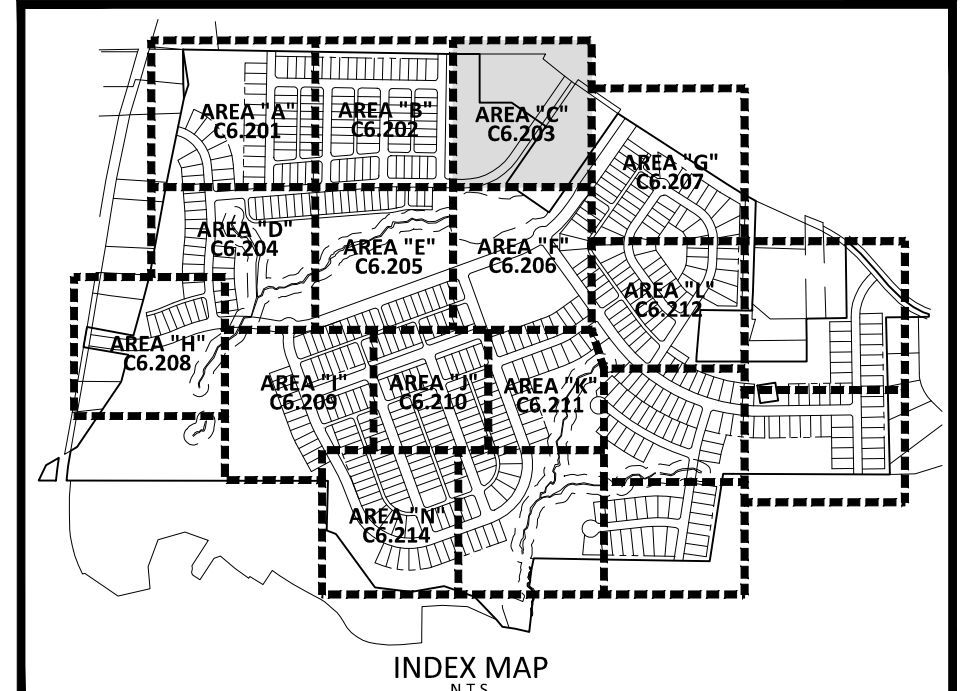
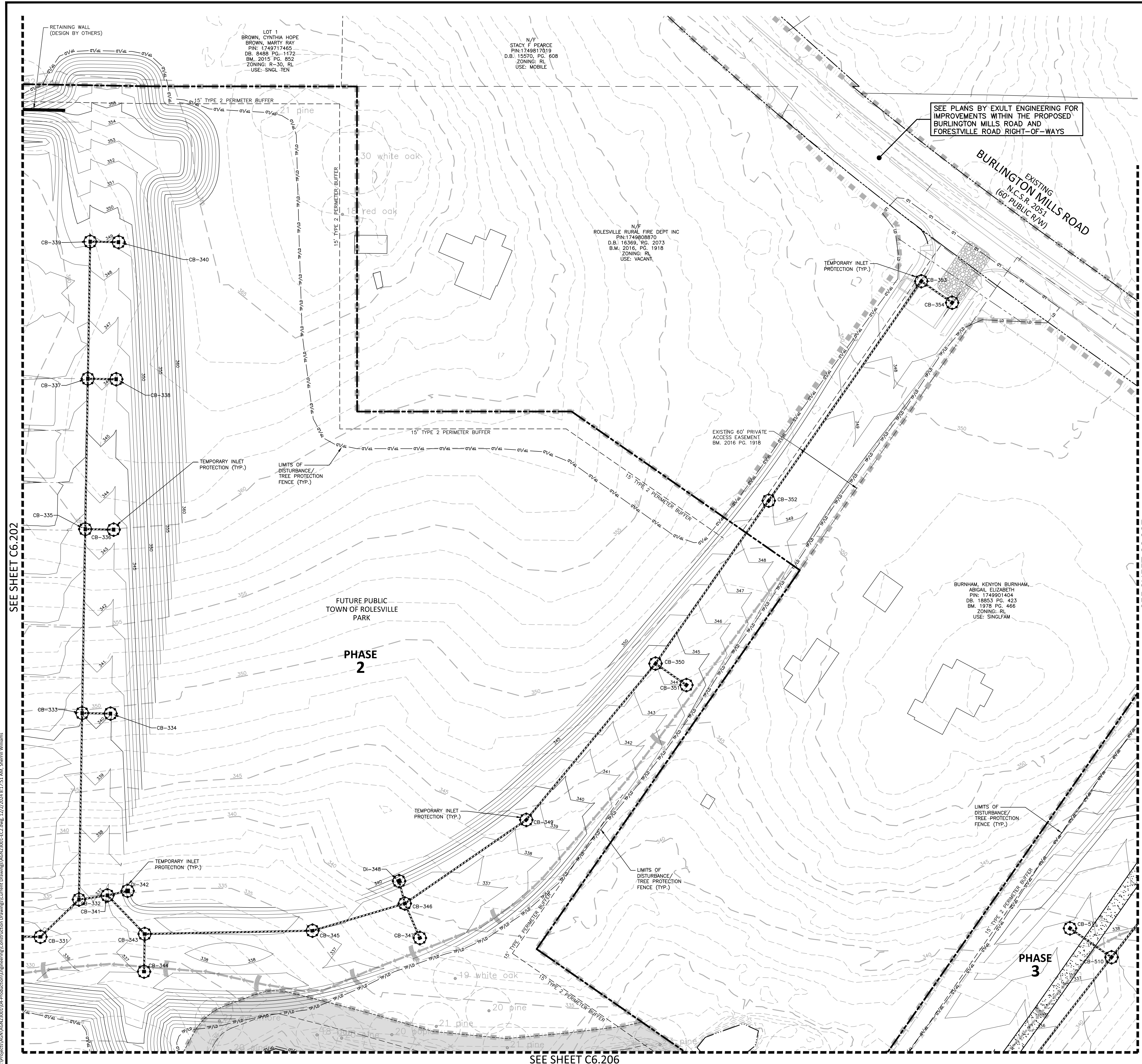
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 DRAWN BY .  
 SCALE 1"=40'  
 DATE 12.02.2024

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "B"**  
**C6.202**





**EROSION CONTROL LEGEND**

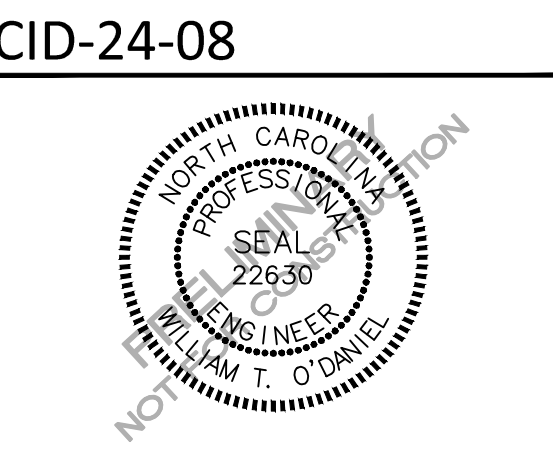
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|--|---|
|  | SILT FENCE OUTLET                           |
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|  | INLET PROTECTION FOR EXISTING STRUCTURES    |
|  | TEMPORARY SLOPE DRAIN                       |
|  | FILTER BERM                                 |
|  | CHECK DAM                                   |
|  | SILT FENCE                                  |
|  | TREE PROTECTION FENCE                       |
|  | LIMITS OF DISTURBANCE                       |
|  | TREE PROTECTION FENCE/LIMITS OF DISTURBANCE |
|  | WOODED AREA                                 |
|  | DIVERSION DITCH                             |
|  | CONSTRUCTION ENTRANCE/EXIT                  |

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA



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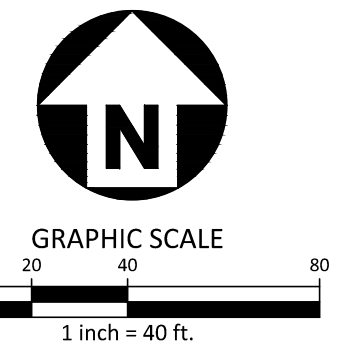
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**PLAN INFORMATION**

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 CHECKED BY .  
 DRAWN BY .  
 SCALE 1"=40'  
 DATE 12.02.2024

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "C"**  
**C6.203**

SEE SHEET C6.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



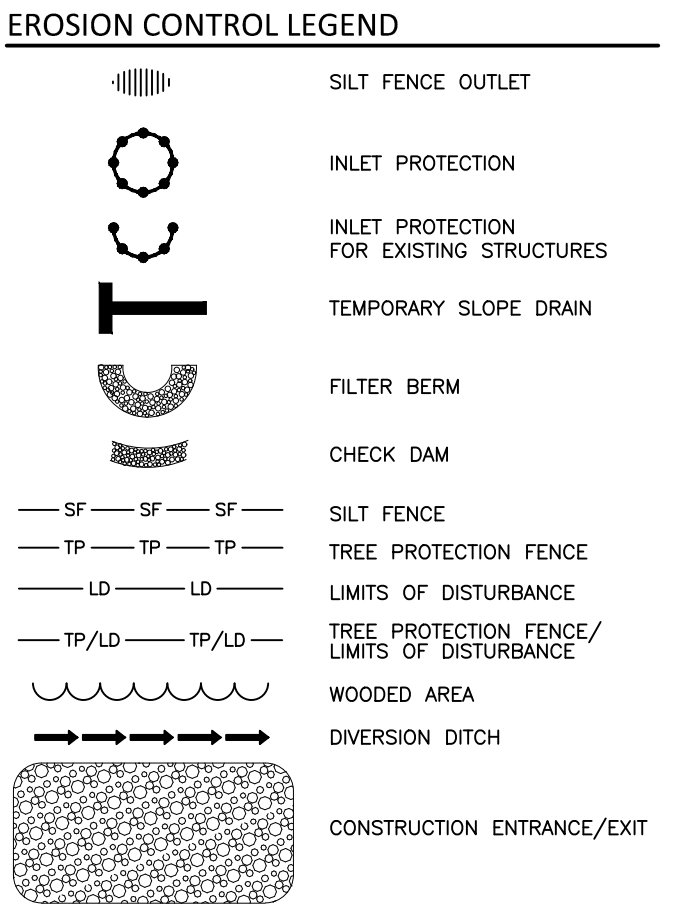
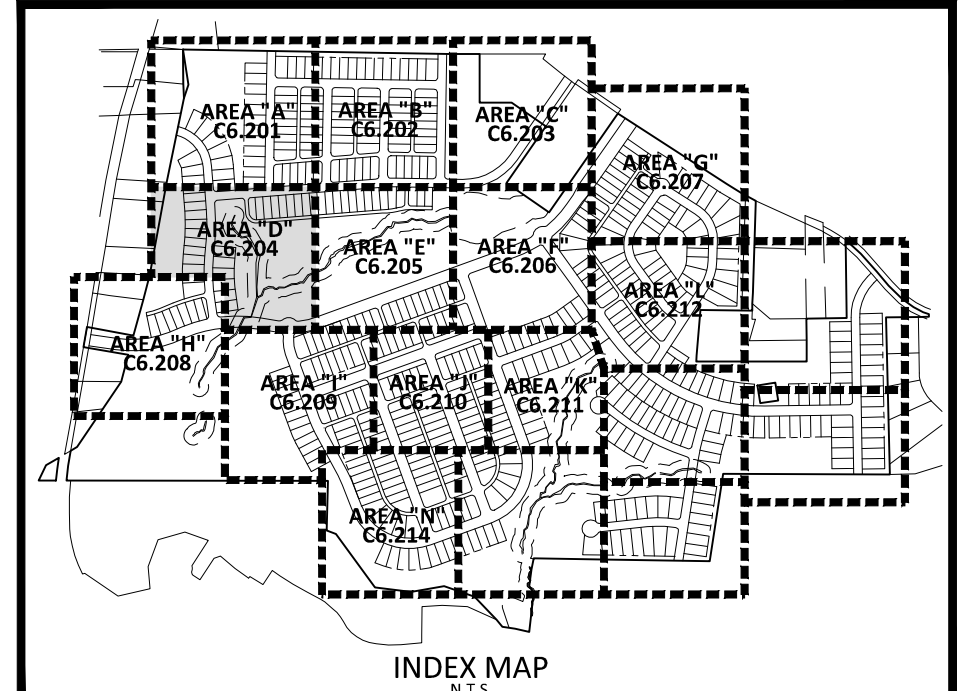
SEE SHEET C6.202

SEE SHEET C6.207

SEE SHEET C6.206

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SEE SHEET C6.205

PHASE 1

PHASE 2

PHASE 2

PHASE 1

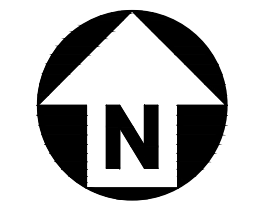
PHASE 3

ACTIVE OPEN SPACE

SEE SHEET C6.208

SEE SHEET C6.209

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
|-----|------|
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**PLAN INFORMATION**

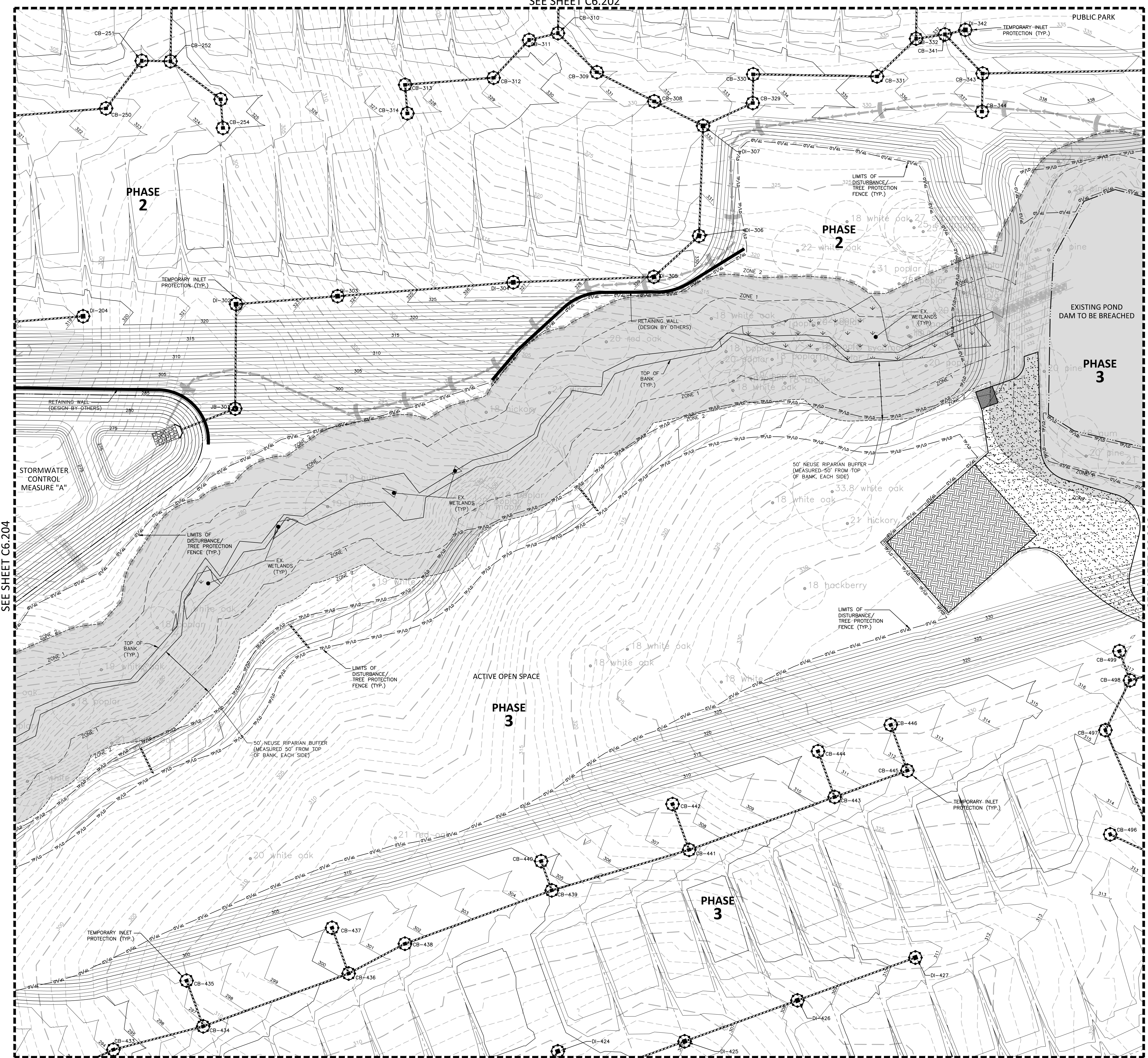
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| FILENAME    | AGN23001-EC2 |
| CHECKED BY  |              |
| DRAWN BY    |              |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "D"**

**C6.204**

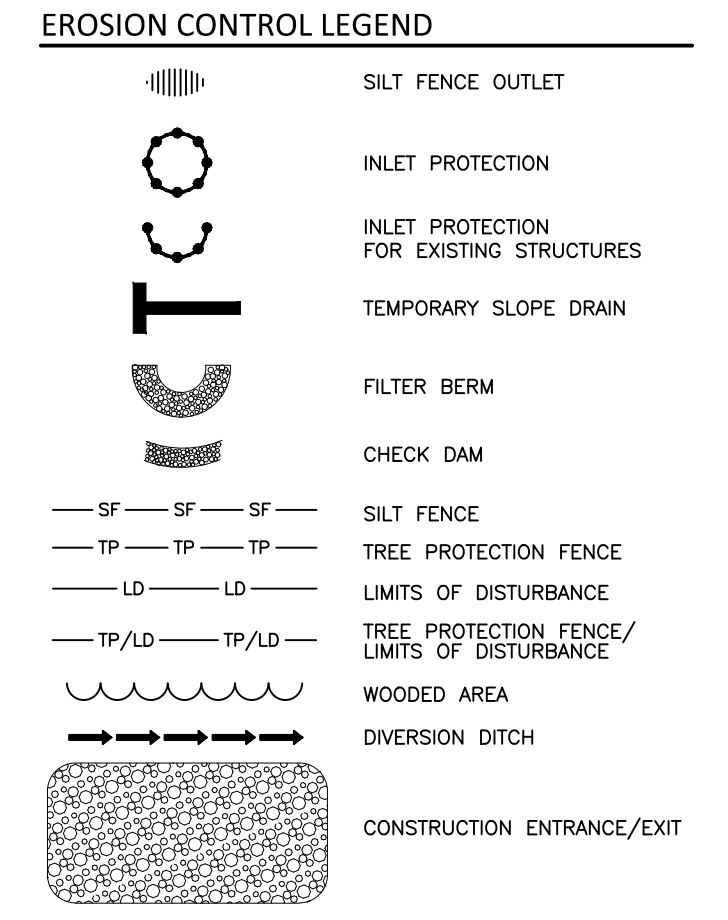
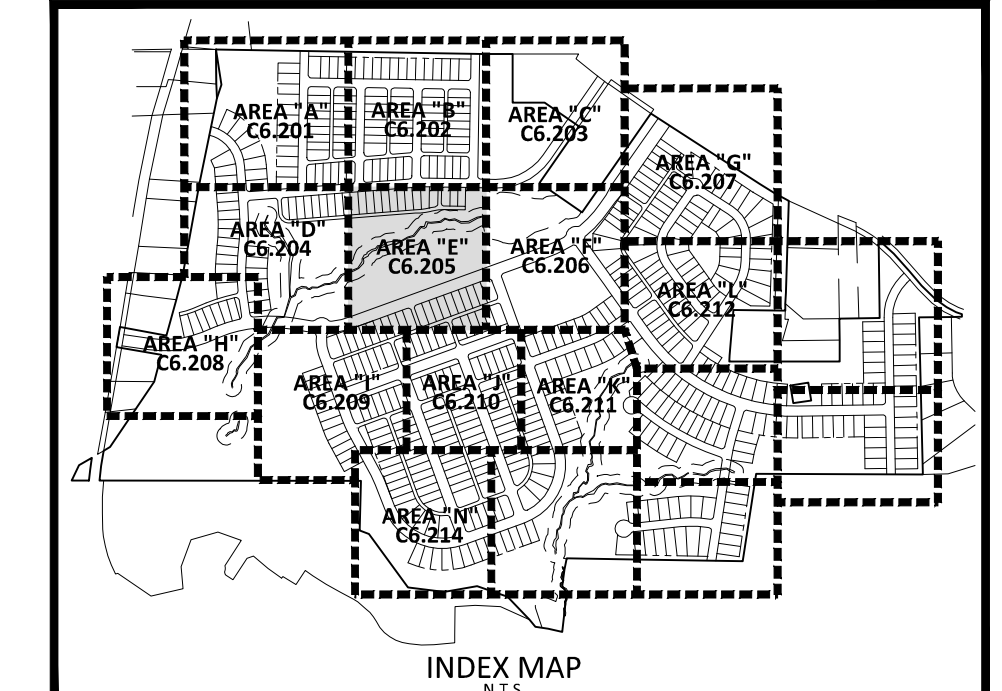
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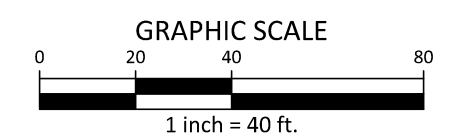
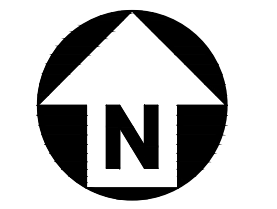


SEE SHEET C6.204

SEE SHEET C6.206



SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



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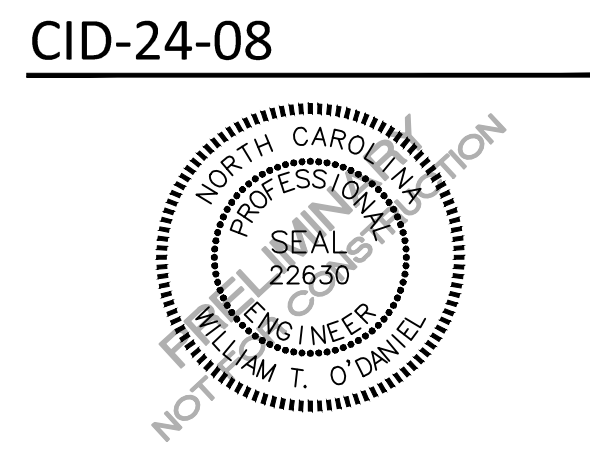
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PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA



**REVISIONS**

| NO. | DATE |
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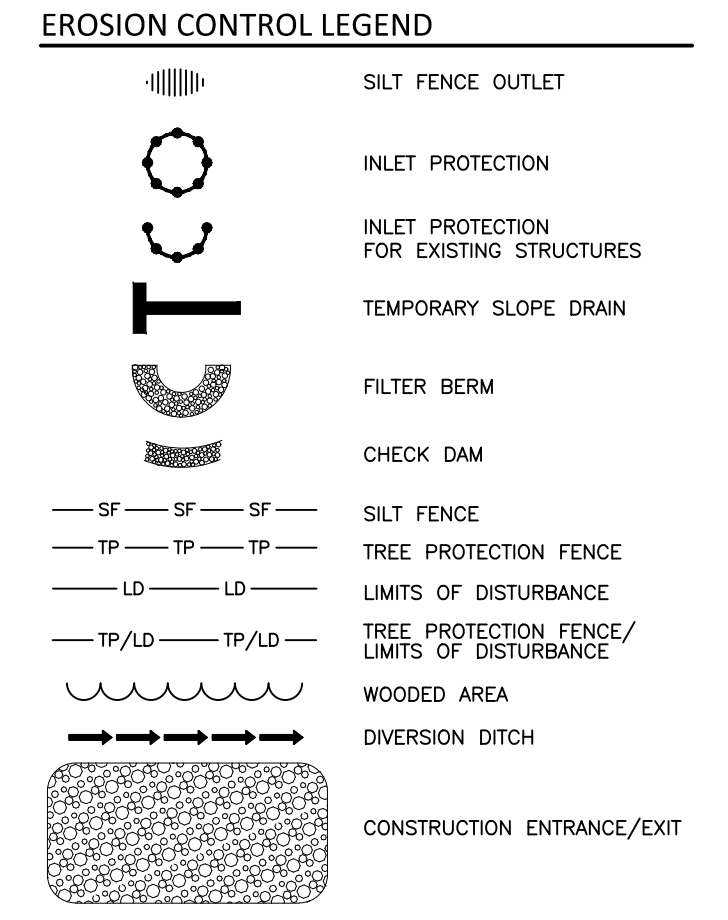
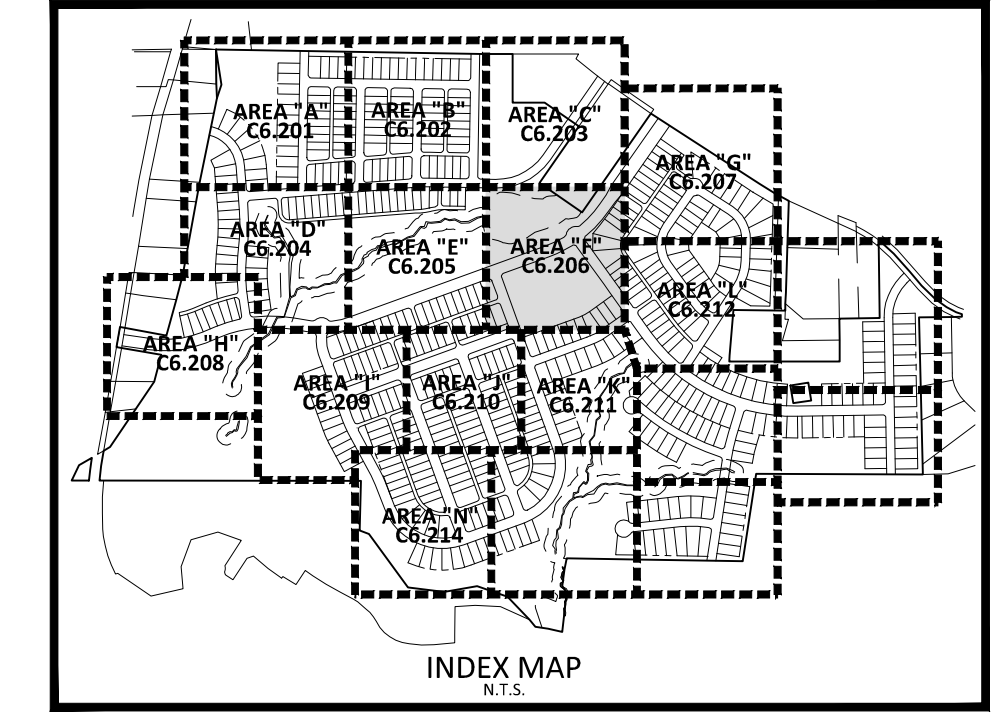
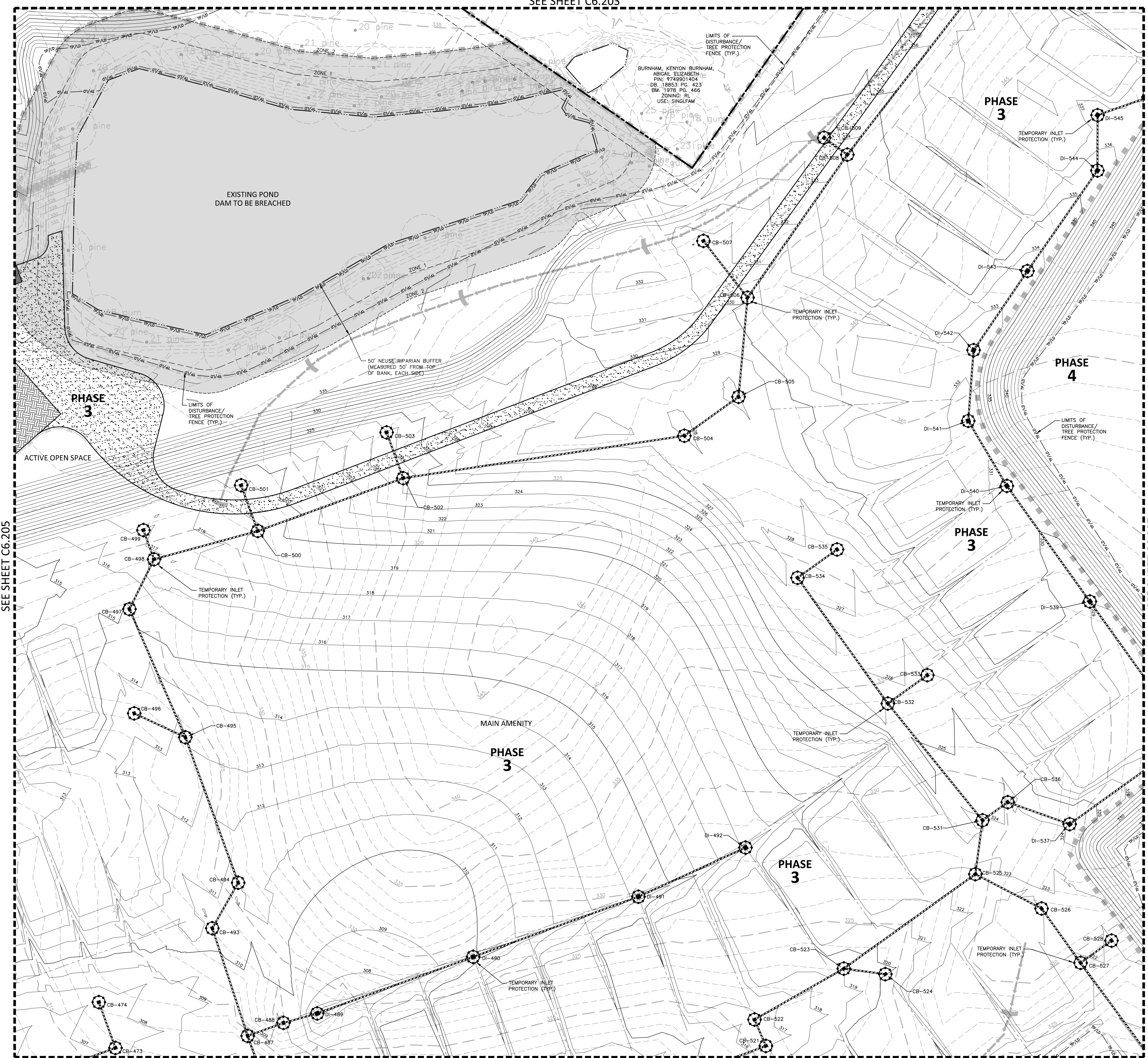
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PROJECT NO. AGN23001  
FILENAME AGN23001-EC2  
CHECKED BY .  
DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "E"**  
**C6.205**

X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-EC2.dwg, 1/27/2024, 8:20:33 AM, Sherrill Williams






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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

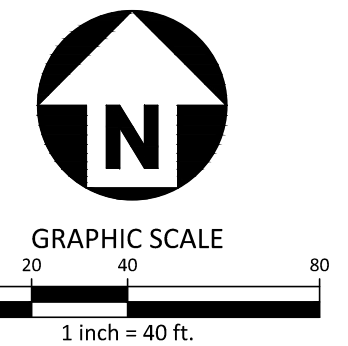
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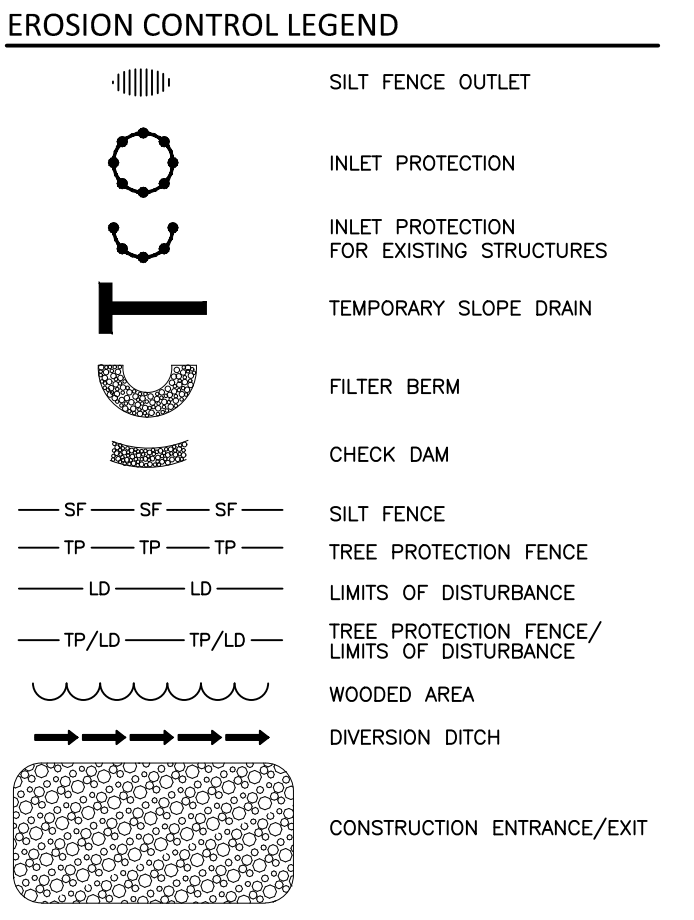
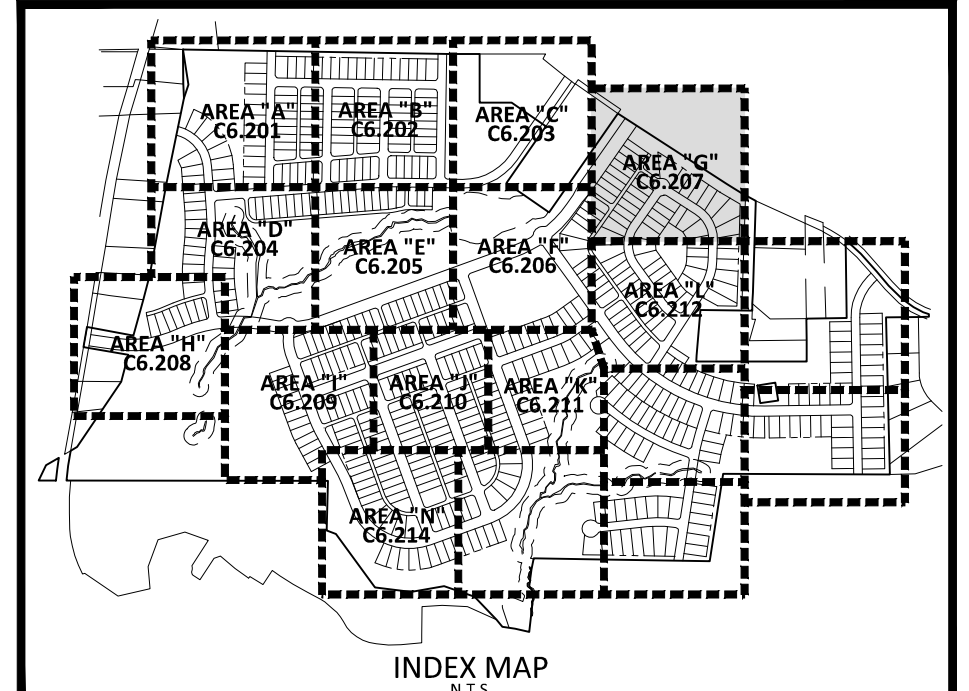
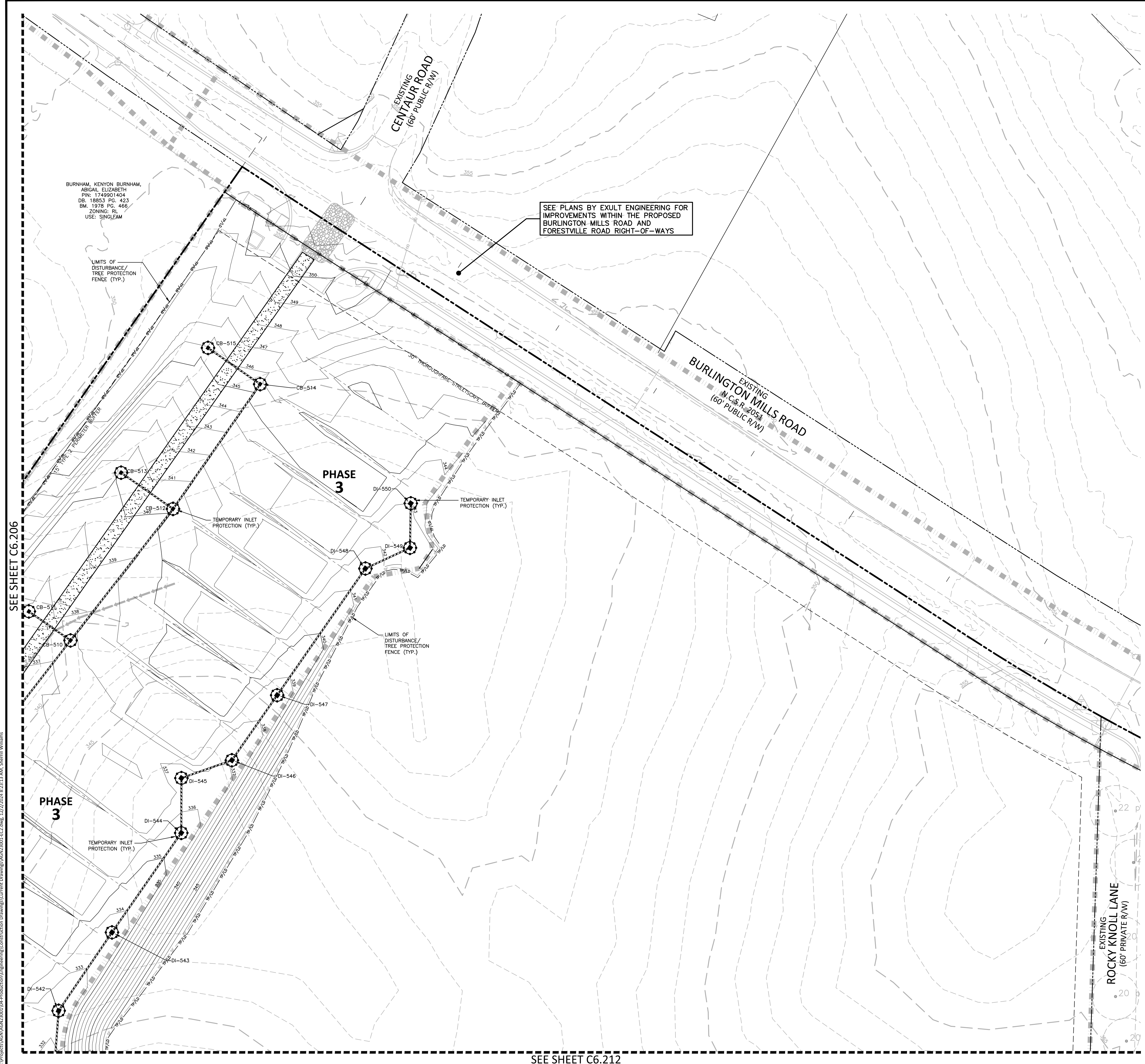
**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "F"**  
**C6.206**

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

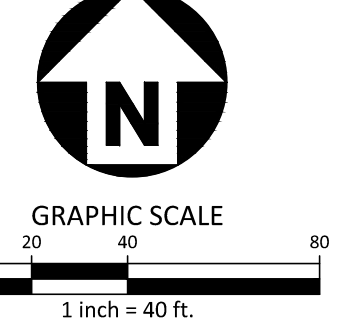


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SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



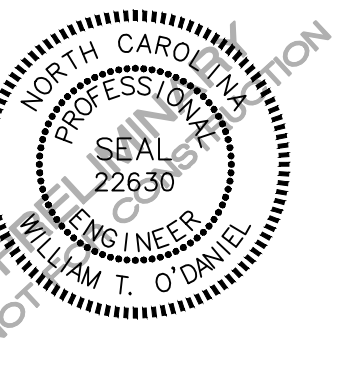

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
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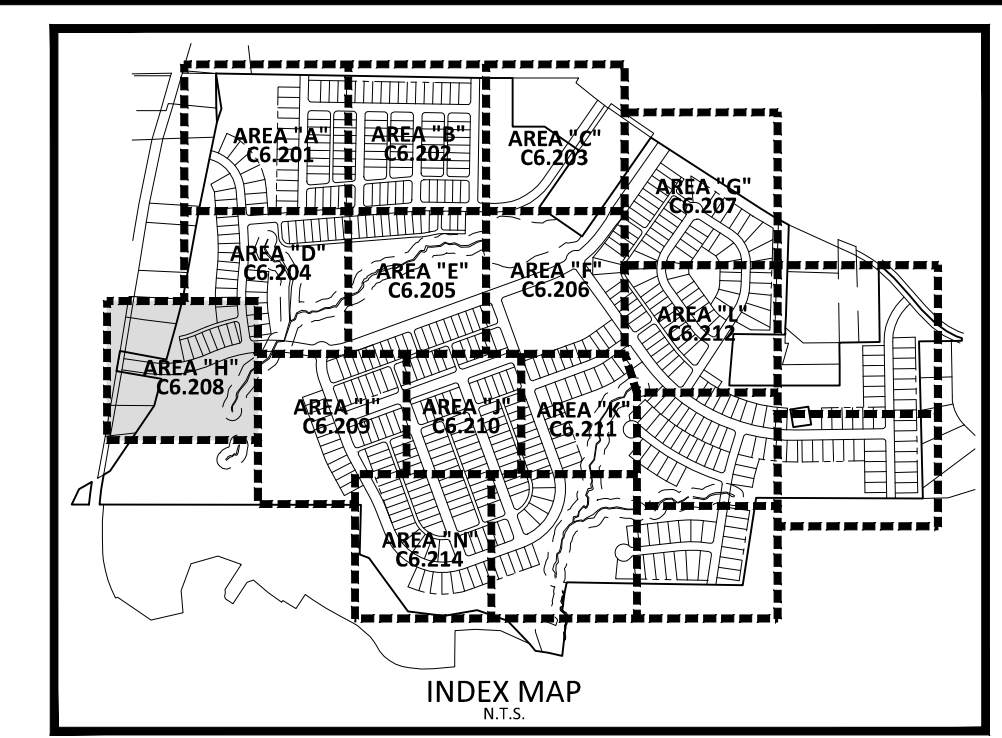
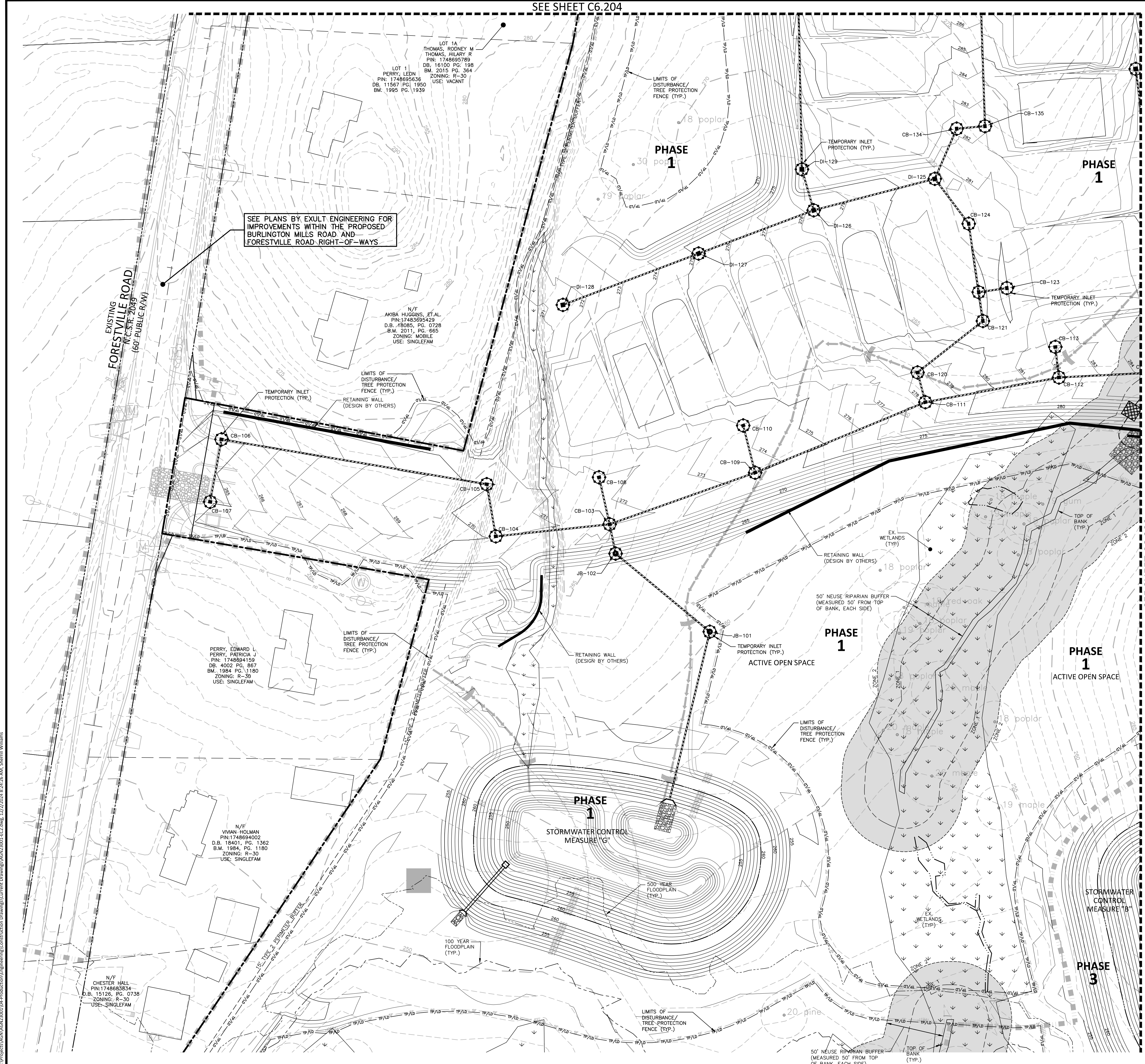
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| DRAWN BY    | .            |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "G"**

**C6.207**





**EROSION CONTROL LEGEND**

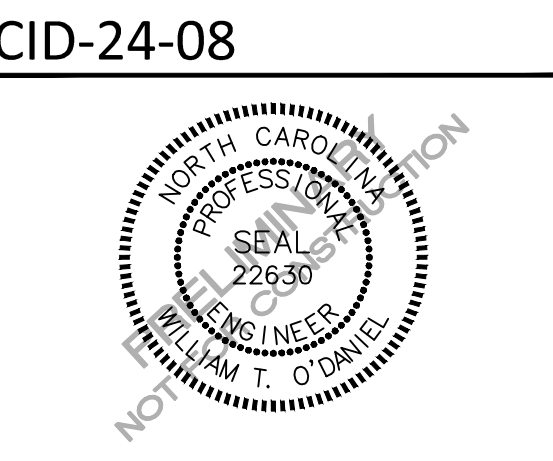
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|--|---|
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|  | INLET PROTECTION                            |
|  | INLET PROTECTION FOR EXISTING STRUCTURES    |
|  | TEMPORARY SLOPE DRAIN                       |
|  | FILTER BERM                                 |
|  | CHECK DAM                                   |
|  | SILT FENCE                                  |
|  | TREE PROTECTION FENCE                       |
|  | LIMITS OF DISTURBANCE                       |
|  | TREE PROTECTION FENCE/LIMITS OF DISTURBANCE |
|  | WOODED AREA                                 |
|  | DIVERSION DITCH                             |
|  | CONSTRUCTION ENTRANCE/EXIT                  |

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA



**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

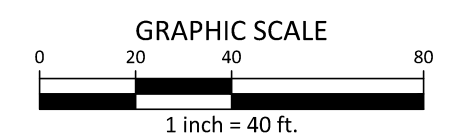
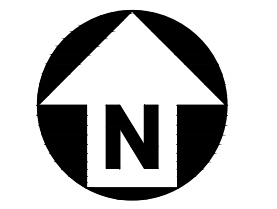
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PROJECT NO. AGN23001  
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 CHECKED BY .  
 DRAWN BY .  
 SCALE 1"=40'  
 DATE 12.02.2024

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "H"**  
**C6.208**

SEE SHEET C6.209

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

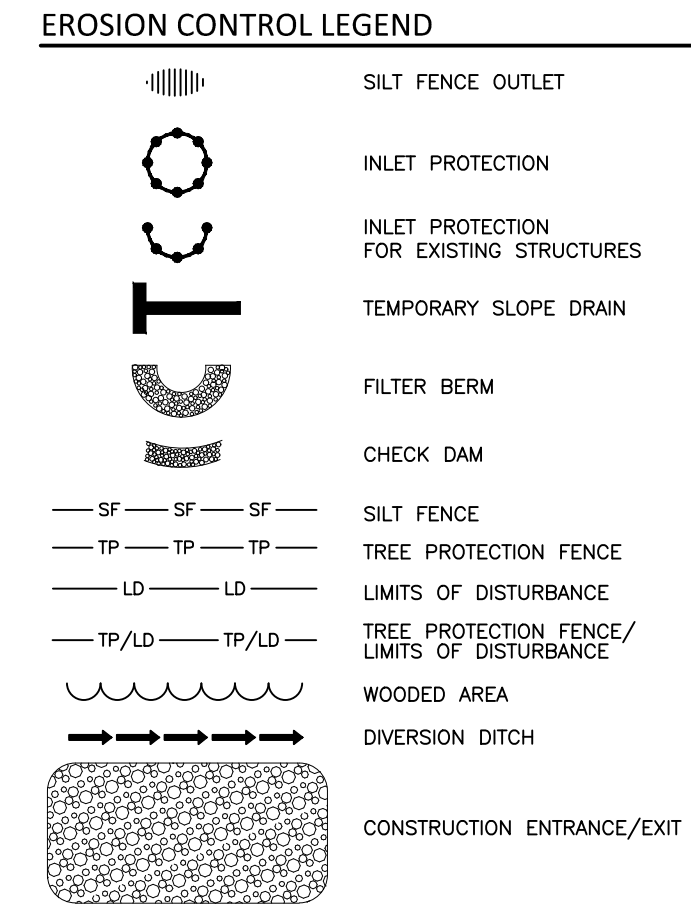
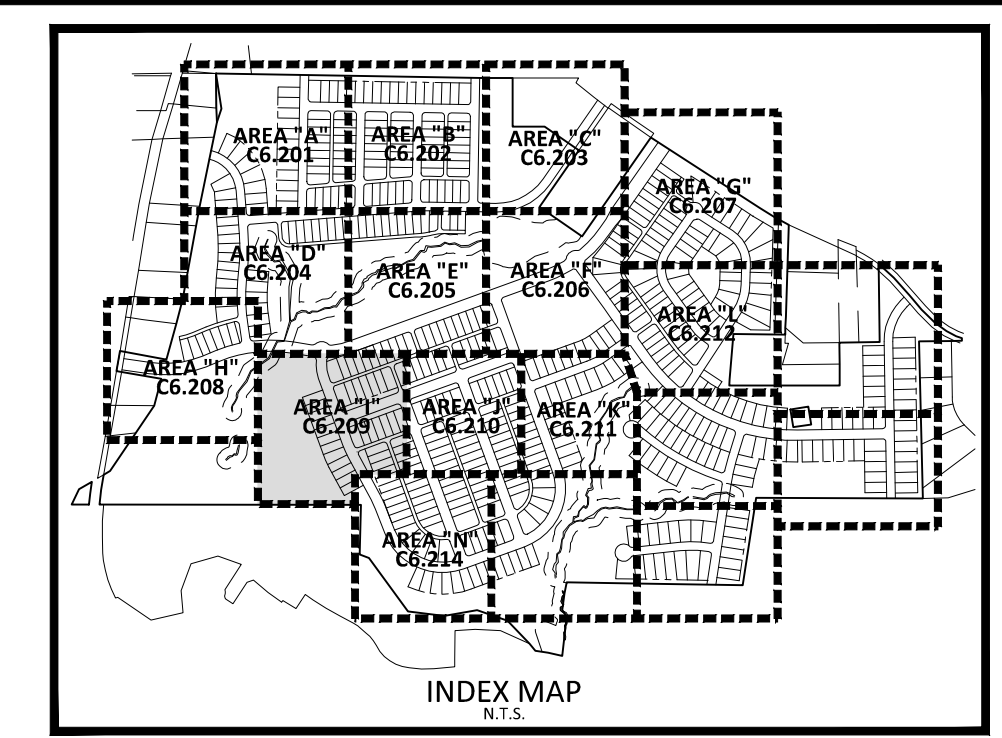




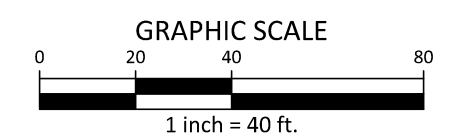
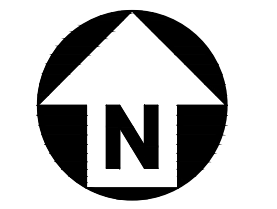


SEE SHEET C6.208

SEE SHEET C6.210



SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

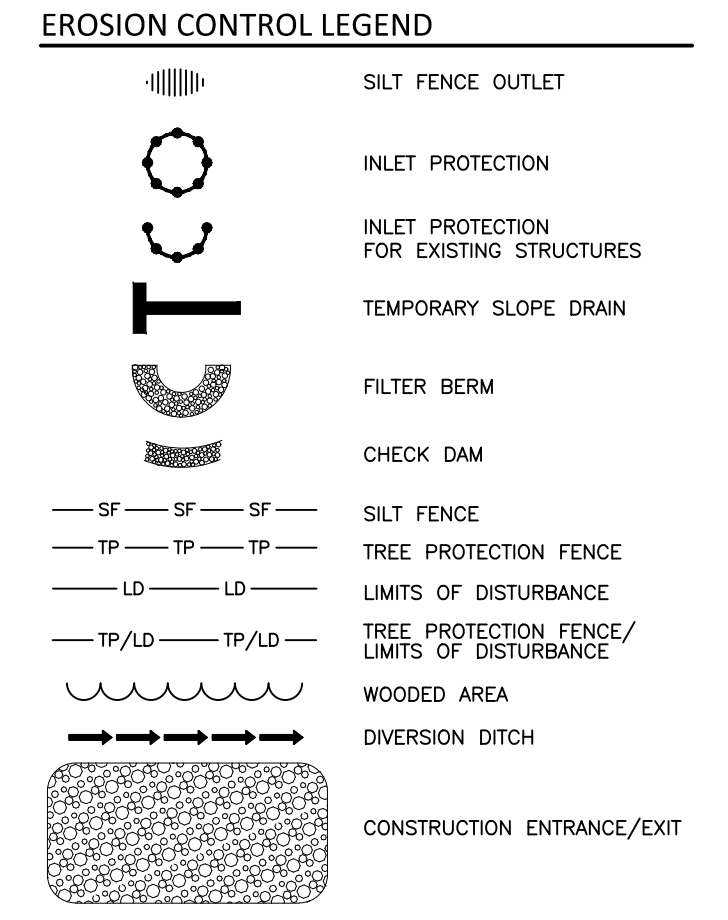
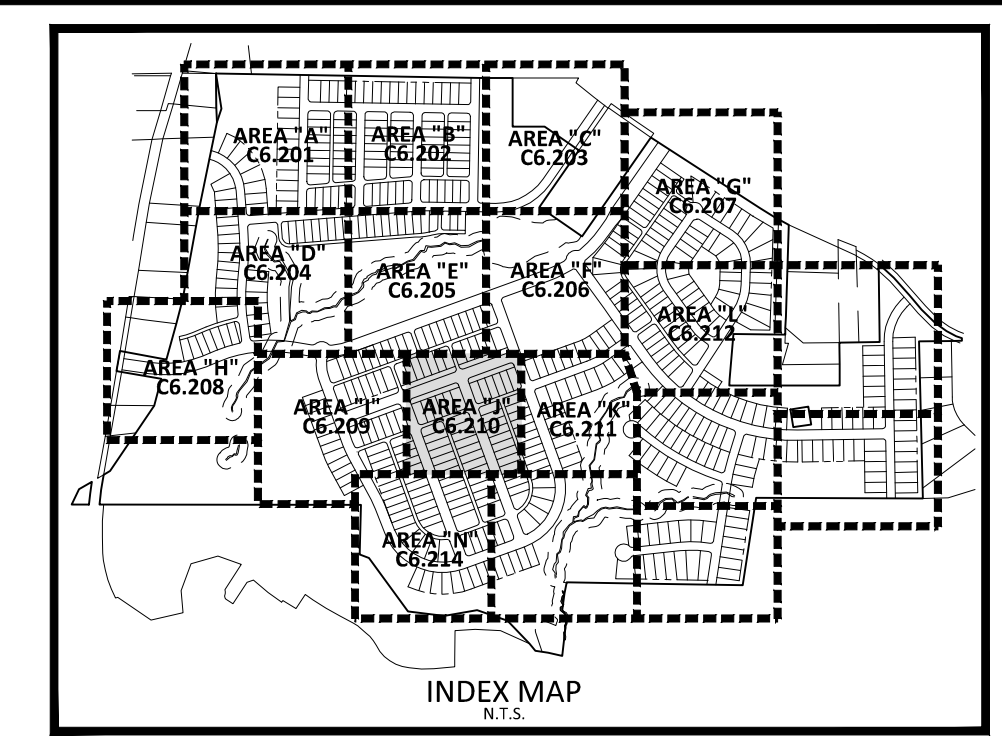
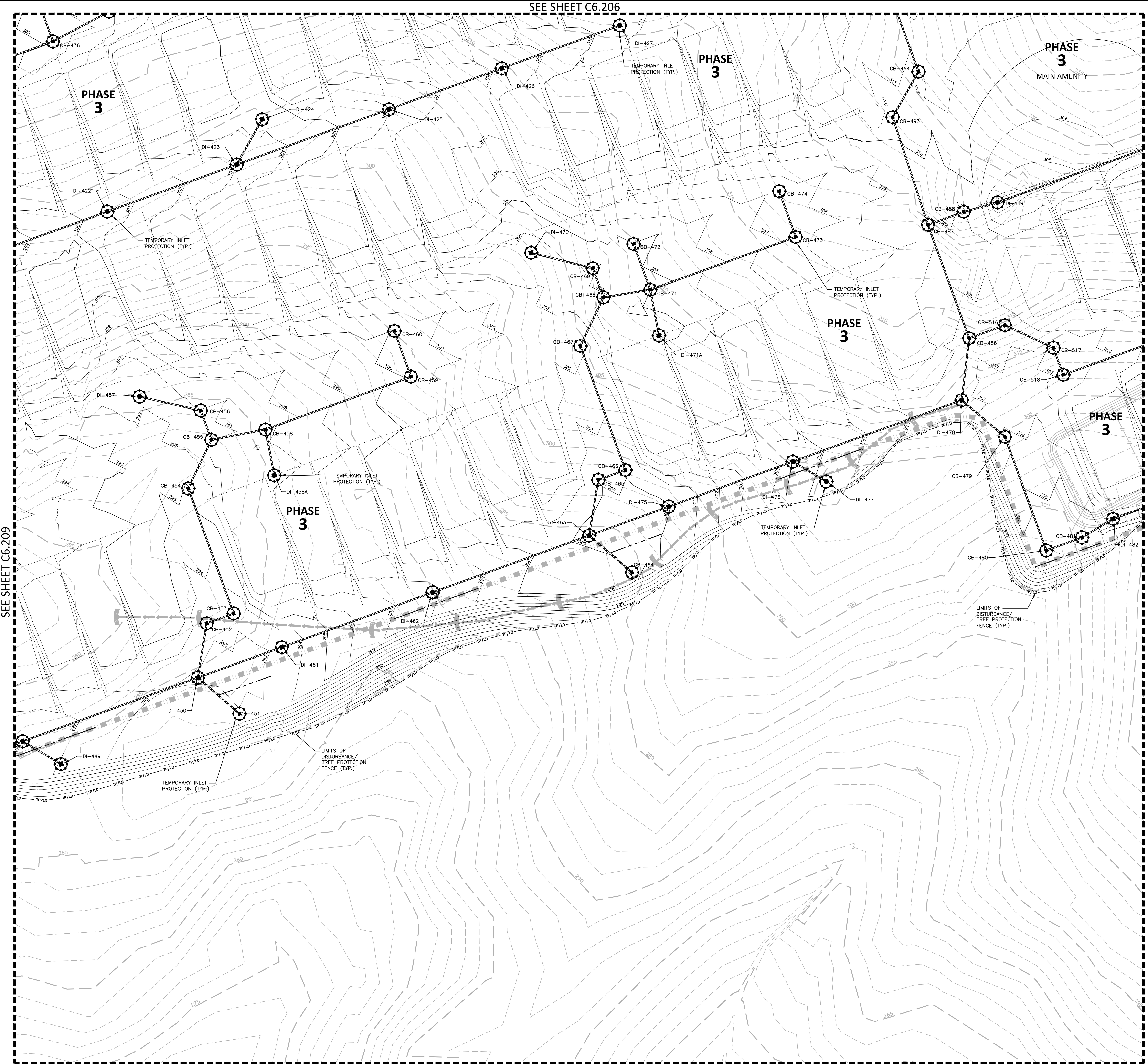
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**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AGN23001-EC2  
CHECKED BY .  
DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "I"**  
**C6.209**



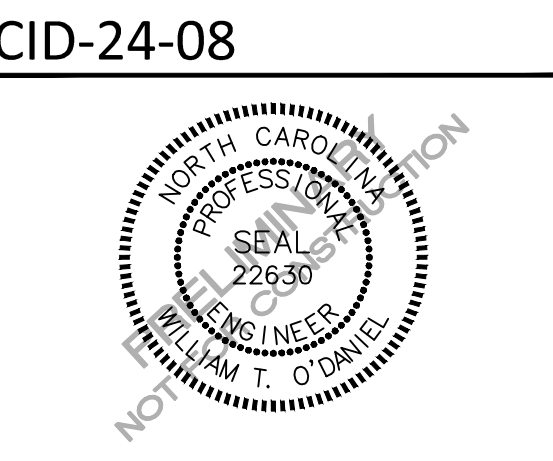


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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA



**REVISIONS**

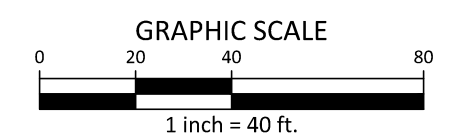
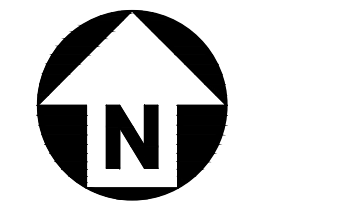
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| FILENAME    | AGN23001-EC2 |
| CHECKED BY  | .            |
| DRAWN BY    | .            |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "J"**  
**C6.210**

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



SEE SHEET C6.209

SEE SHEET C6.211

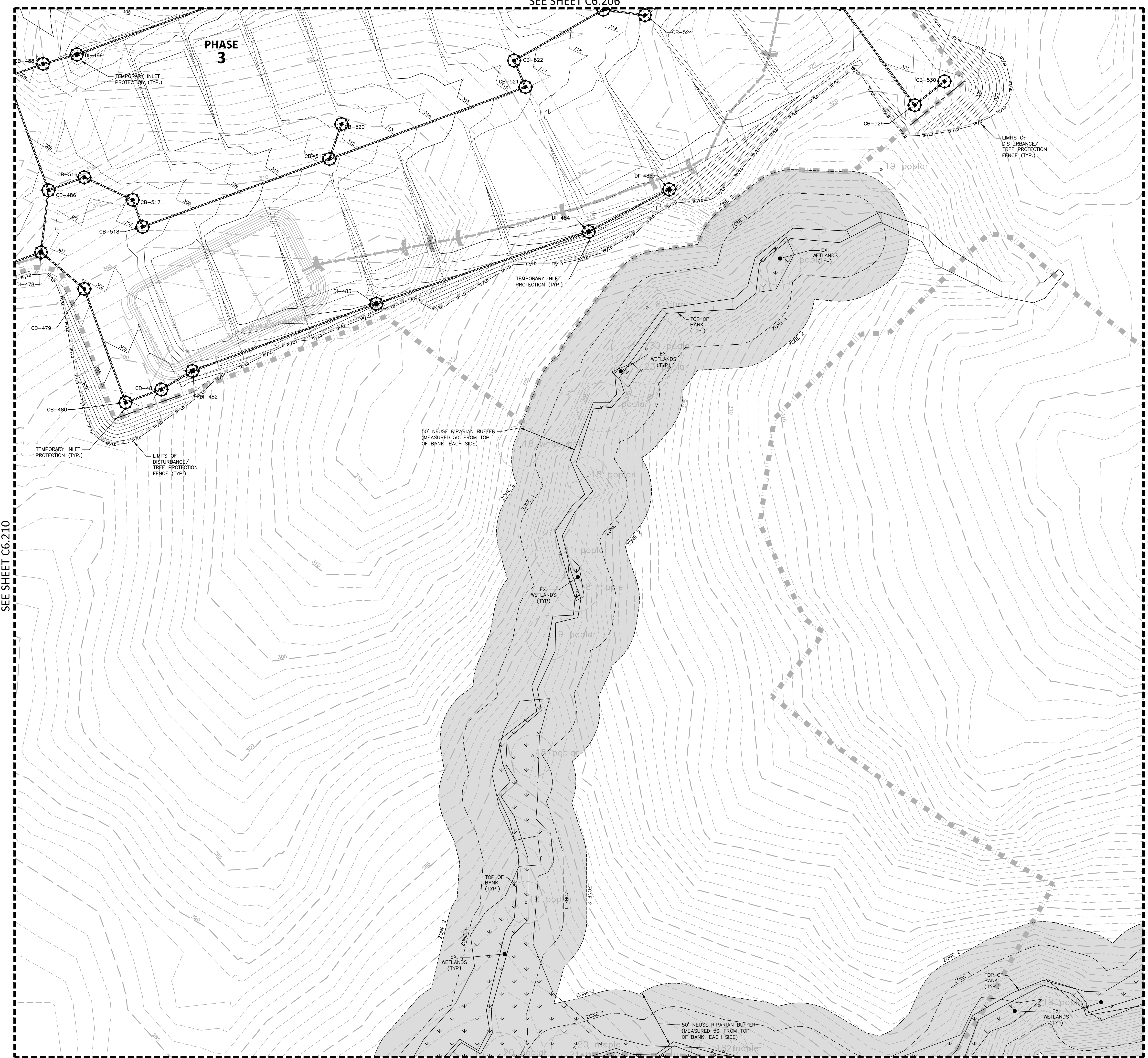
SEE SHEET C6.214

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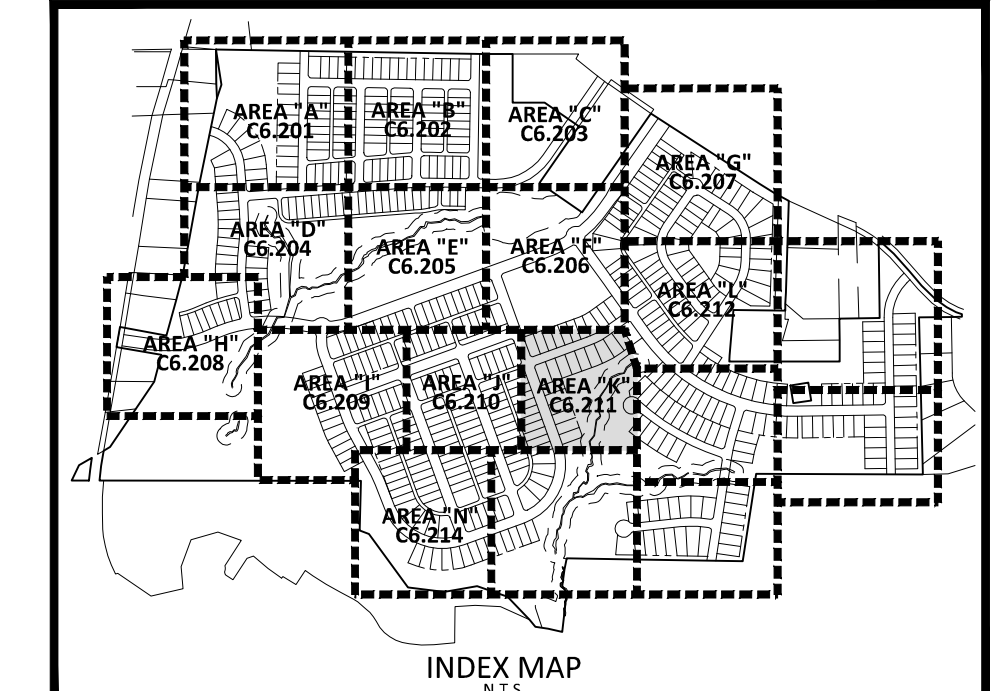


SEE SHEET C6.206

PHASE 3



SEE SHEET C6.215



EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SILT FENCE
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



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| NO. | DATE |
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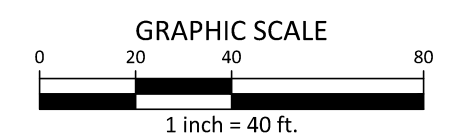
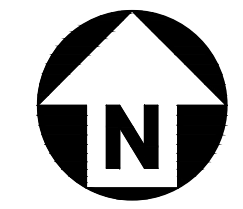
PLAN INFORMATION

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FILENAME AGN23001-EC2  
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DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

EROSION CONTROL PLAN  
STAGE 2  
AREA "K"

**C6.211**

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



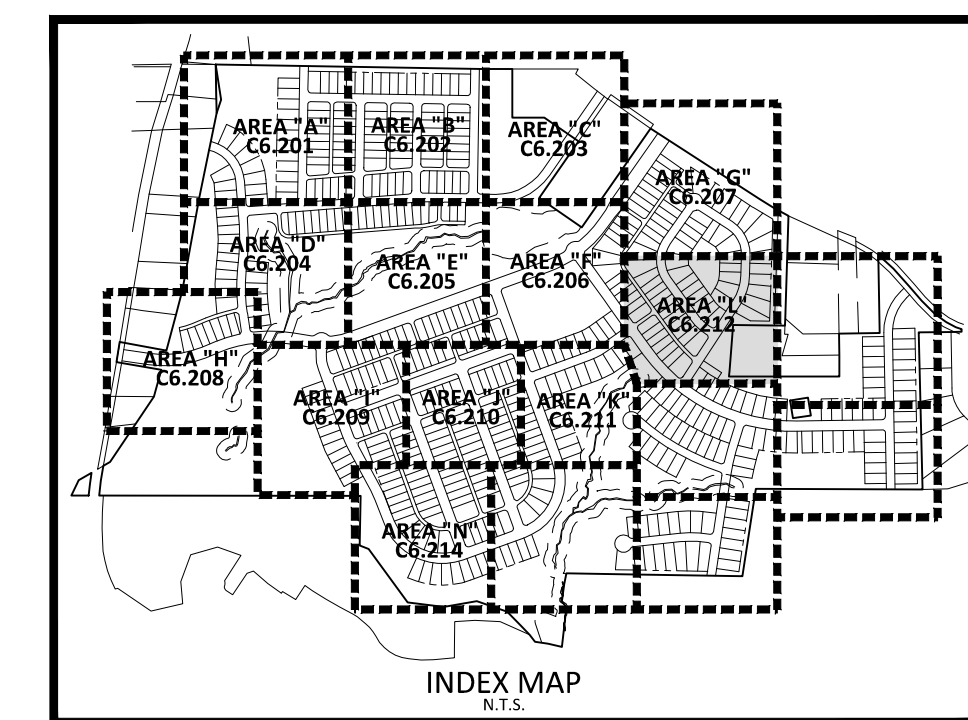
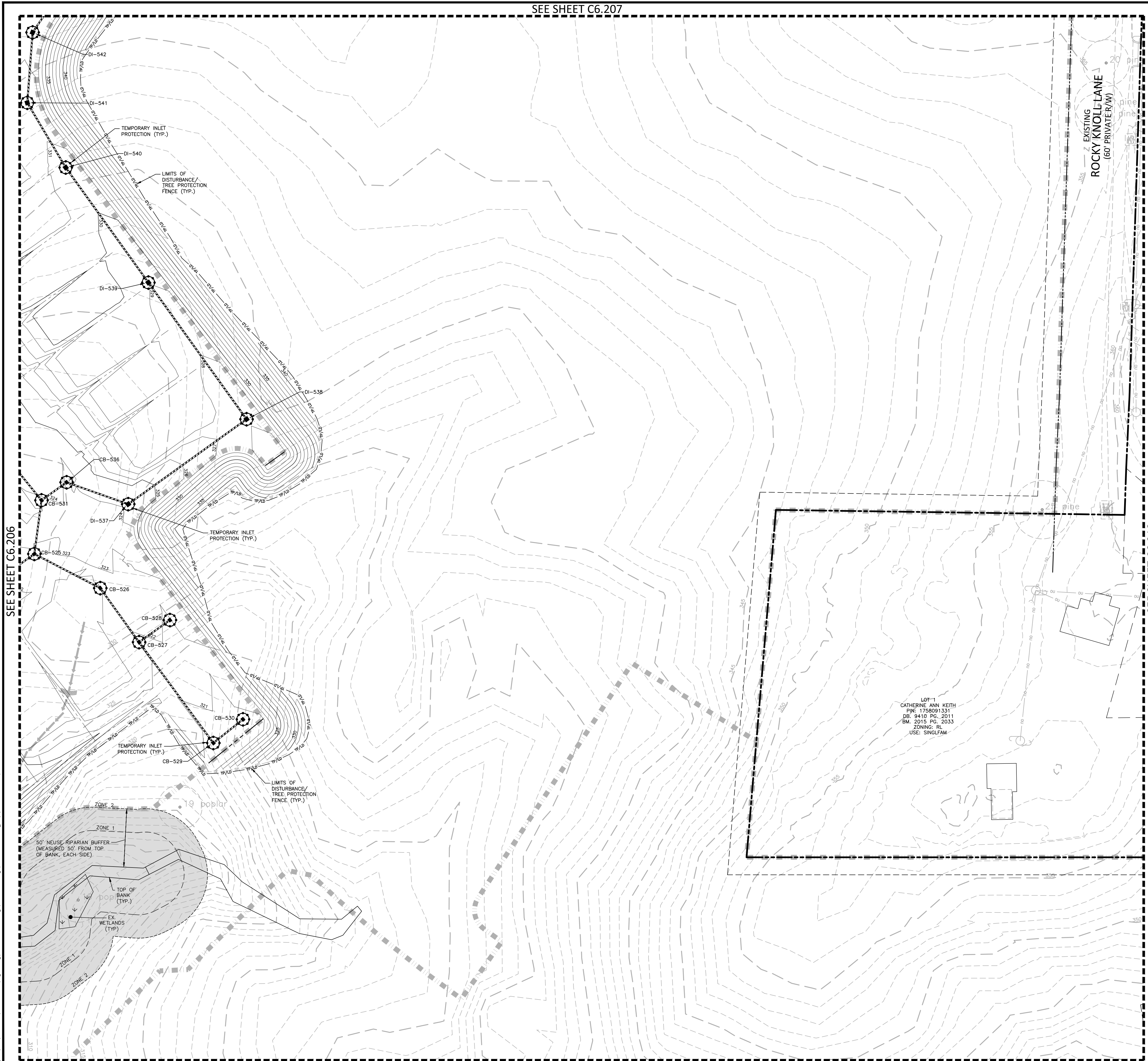
FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

SEE SHEET C6.210

SEE SHEET C6.216

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**EROSION CONTROL LEGEND**

|  |   |
|--|---|
|  | SILT FENCE OUTLET                           |
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|  | INLET PROTECTION FOR EXISTING STRUCTURES    |
|  | TEMPORARY SLOPE DRAIN                       |
|  | FILTER BERM                                 |
|  | CHECK DAM                                   |
|  | SILT FENCE                                  |
|  | TREE PROTECTION FENCE                       |
|  | LIMITS OF DISTURBANCE                       |
|  | TREE PROTECTION FENCE/LIMITS OF DISTURBANCE |
|  | WOODED AREA                                 |
|  | DIVERSION DITCH                             |
|  | CONSTRUCTION ENTRANCE/EXIT                  |



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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

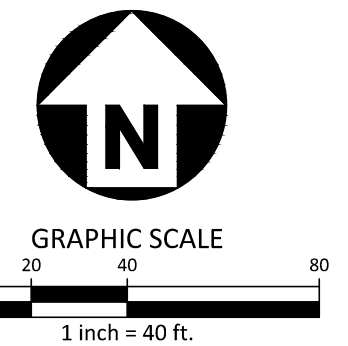
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**PLAN INFORMATION**

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| FILENAME    | AGN23001-EC2 |
| CHECKED BY  | .            |
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| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "L"**  
**C6.212**

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

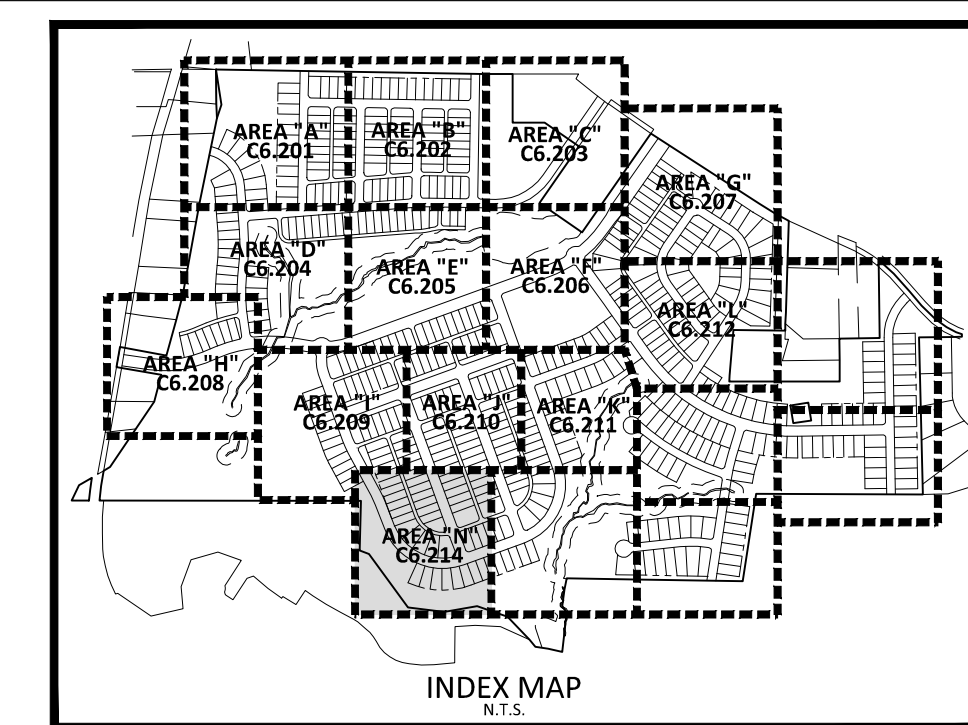
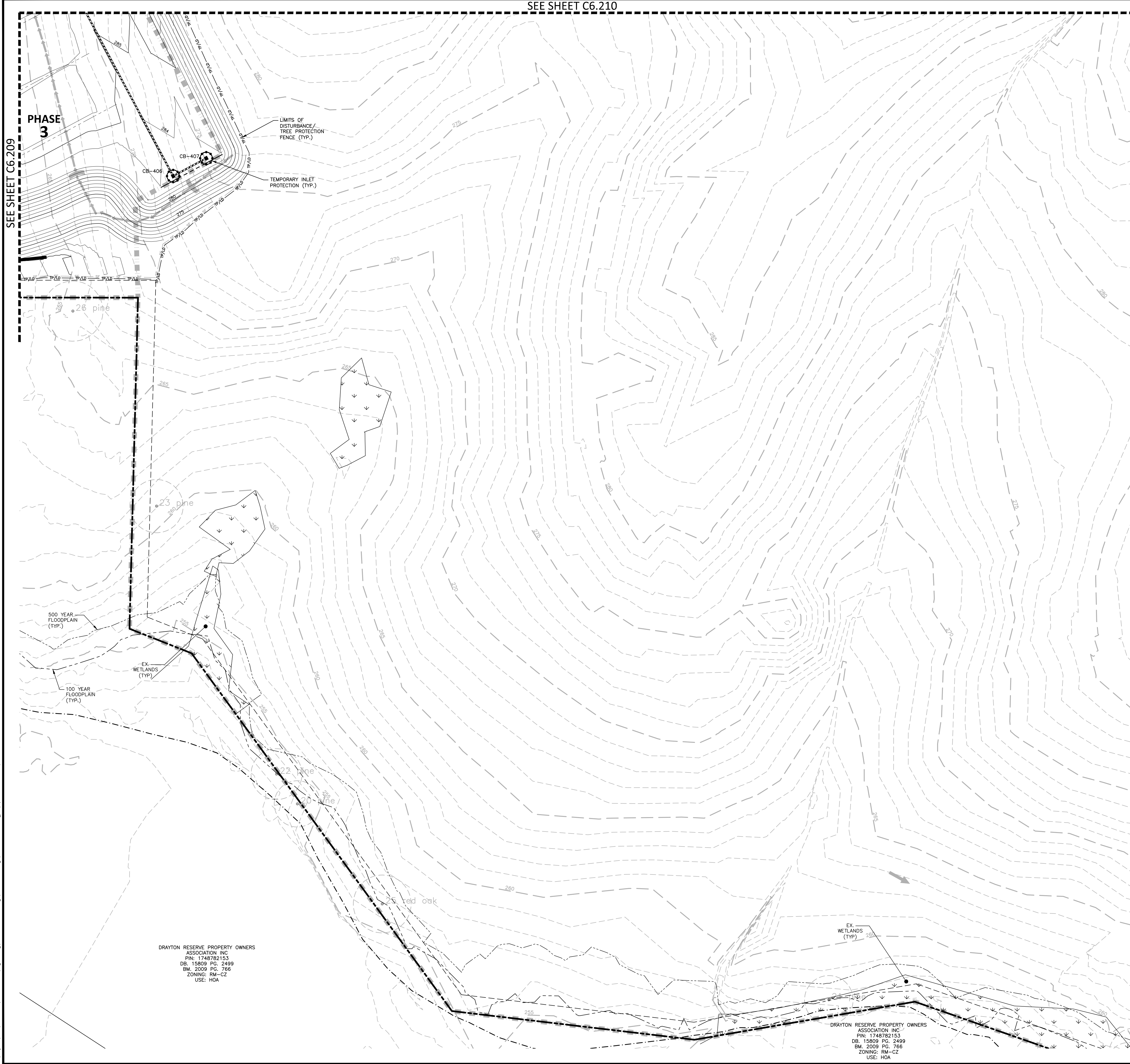


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SEE SHEET C6.209

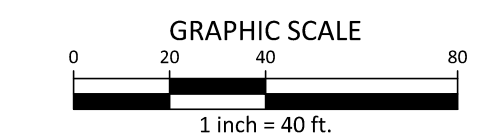
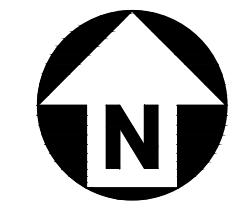
SEE SHEET C6.215



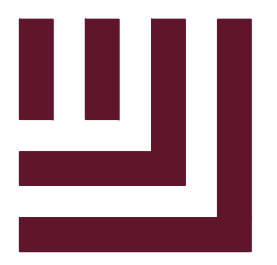
EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SILT FENCE
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**

BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. AGN23001  
FILENAME AGN23001-EC2  
CHECKED BY .  
DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

SHEET

**EROSION CONTROL PLAN**  
**STAGE 2**  
**AREA "N"**

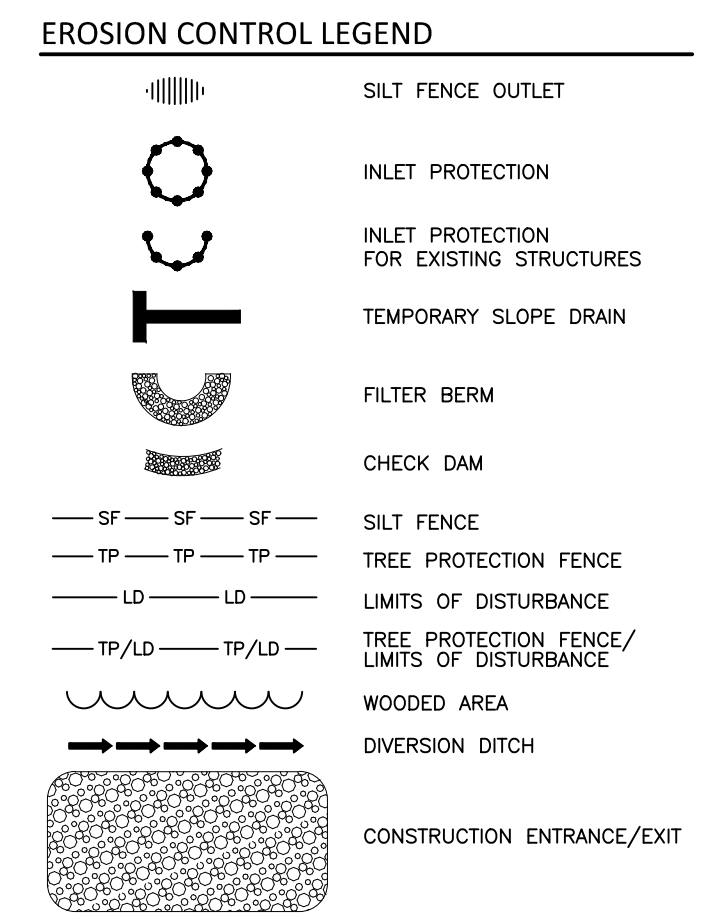
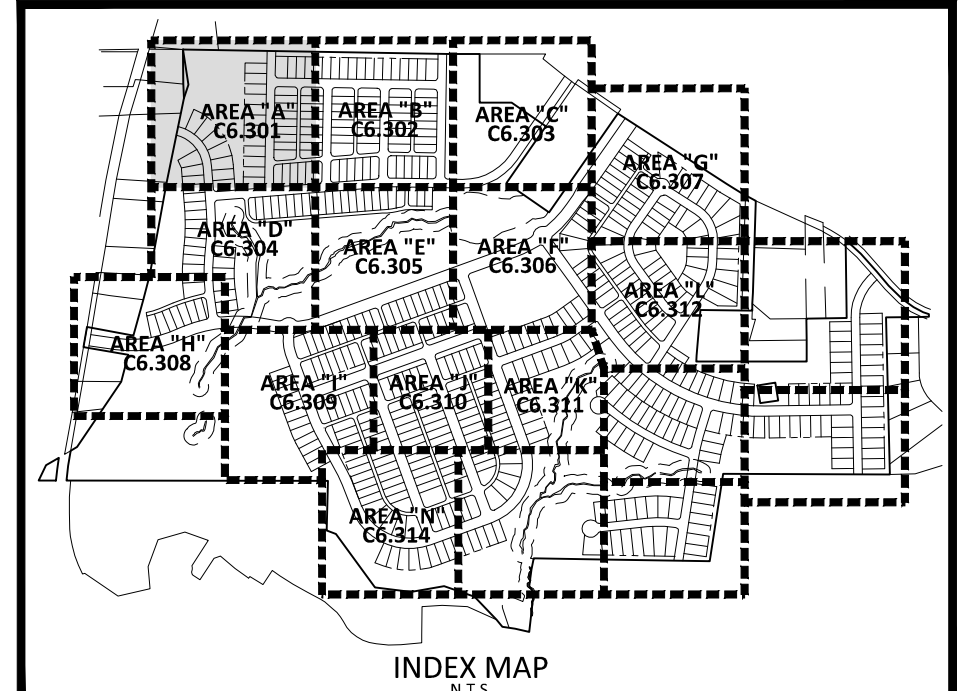
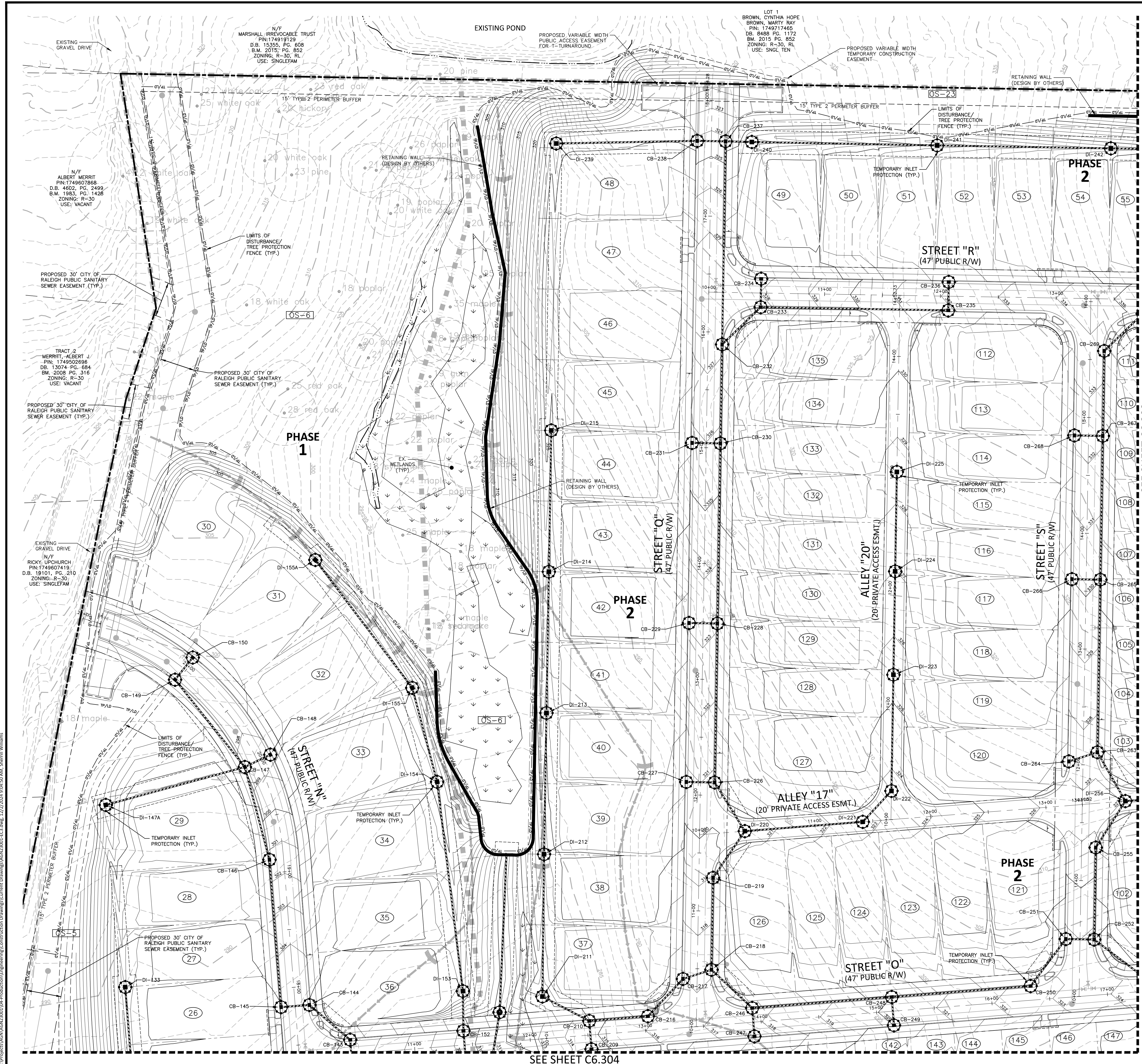
**C6.214**

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DRAYTON RESERVE PROPERTY OWNERS  
ASSOCIATION INC.  
PIN: 1748782153  
DB: 15809 PG: 2499  
BM: 2009 PG: 766  
ZONING: RM-CZ  
USE: HOA

DRAYTON RESERVE PROPERTY OWNERS  
ASSOCIATION INC.  
PIN: 1748782153  
DB: 15809 PG: 2499  
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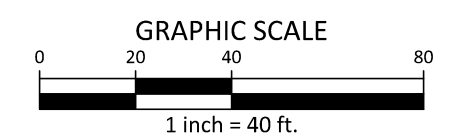
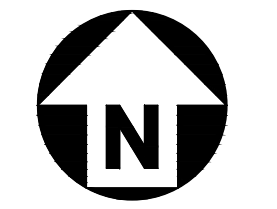




SEE SHEET C6.302

SEE SHEET C6.304

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



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CONTACT: JACOB ANDERSON  
PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
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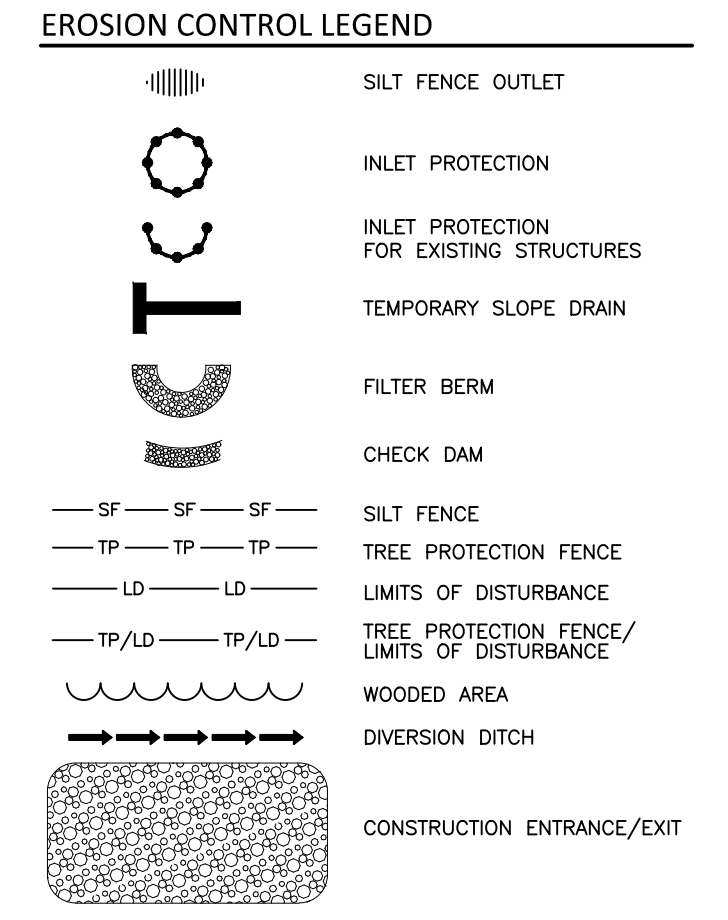
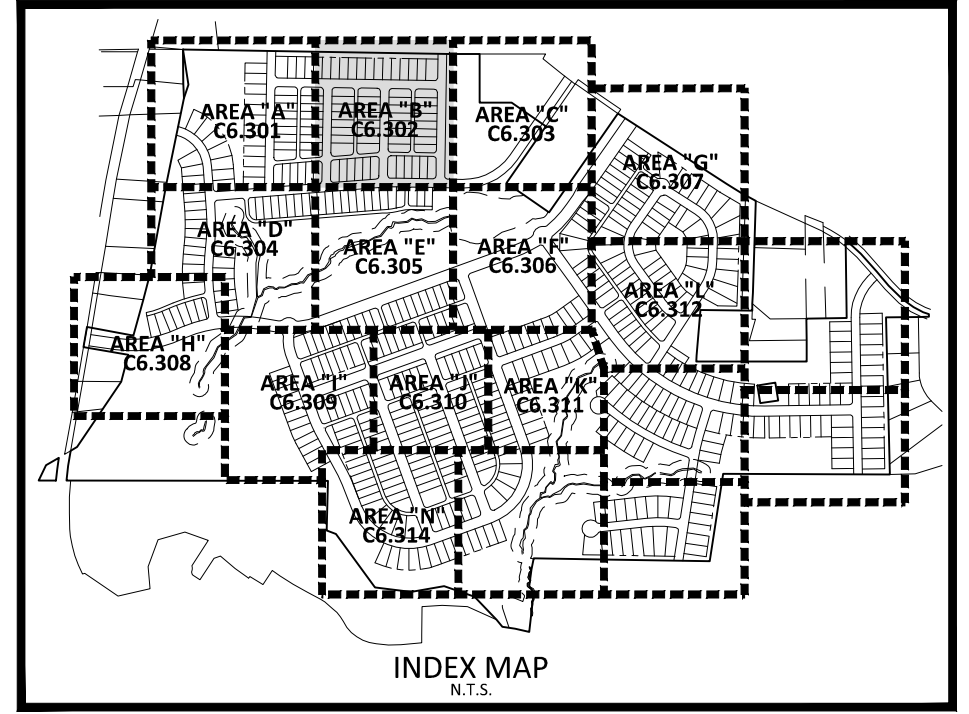
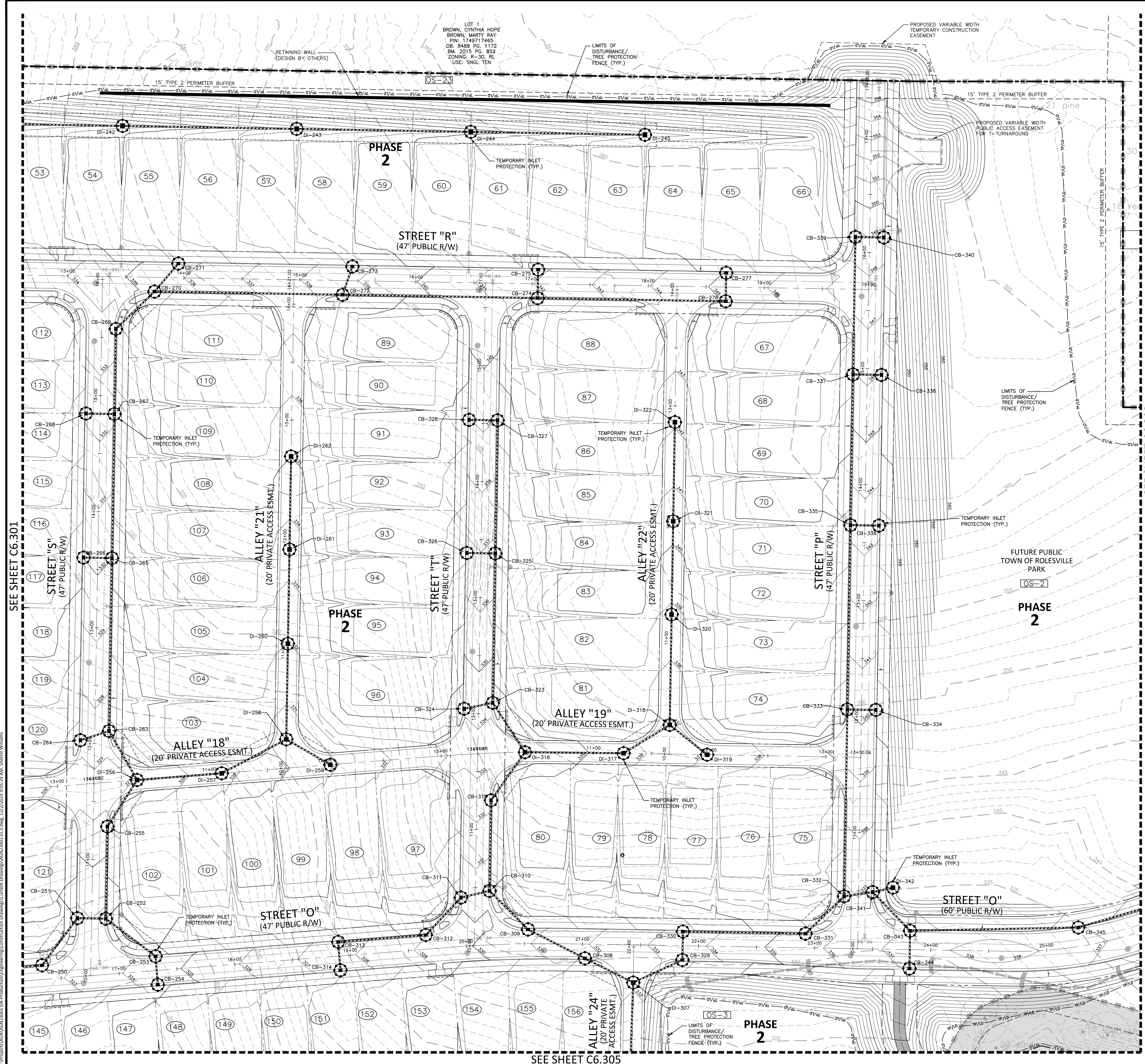
**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AGN23001-EC3  
CHECKED BY .  
DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 3**  
**AREA "A"**  
**C6.301**

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

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| NO. | DATE |
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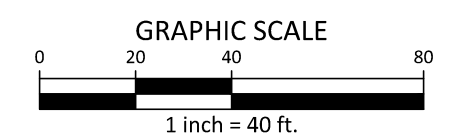
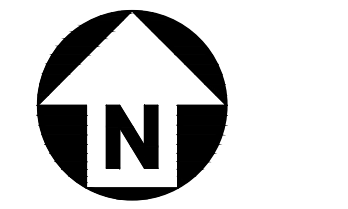
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FILENAME AGN23001-EC3  
CHECKED BY .  
DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 3**  
**AREA "B"**

**C6.302**

SEE SHEET C6.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



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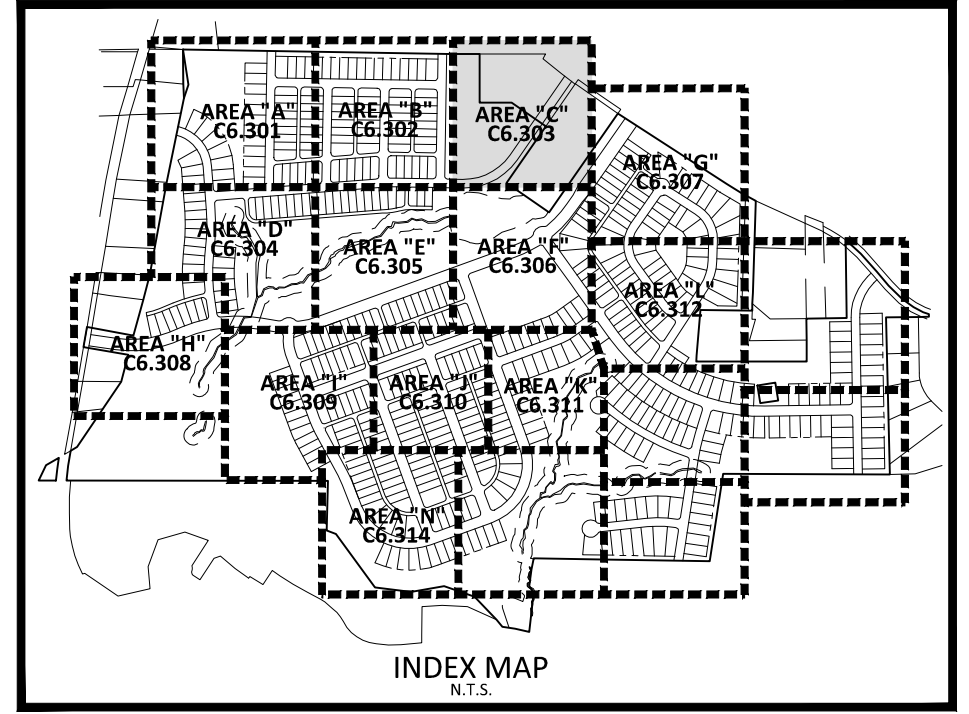
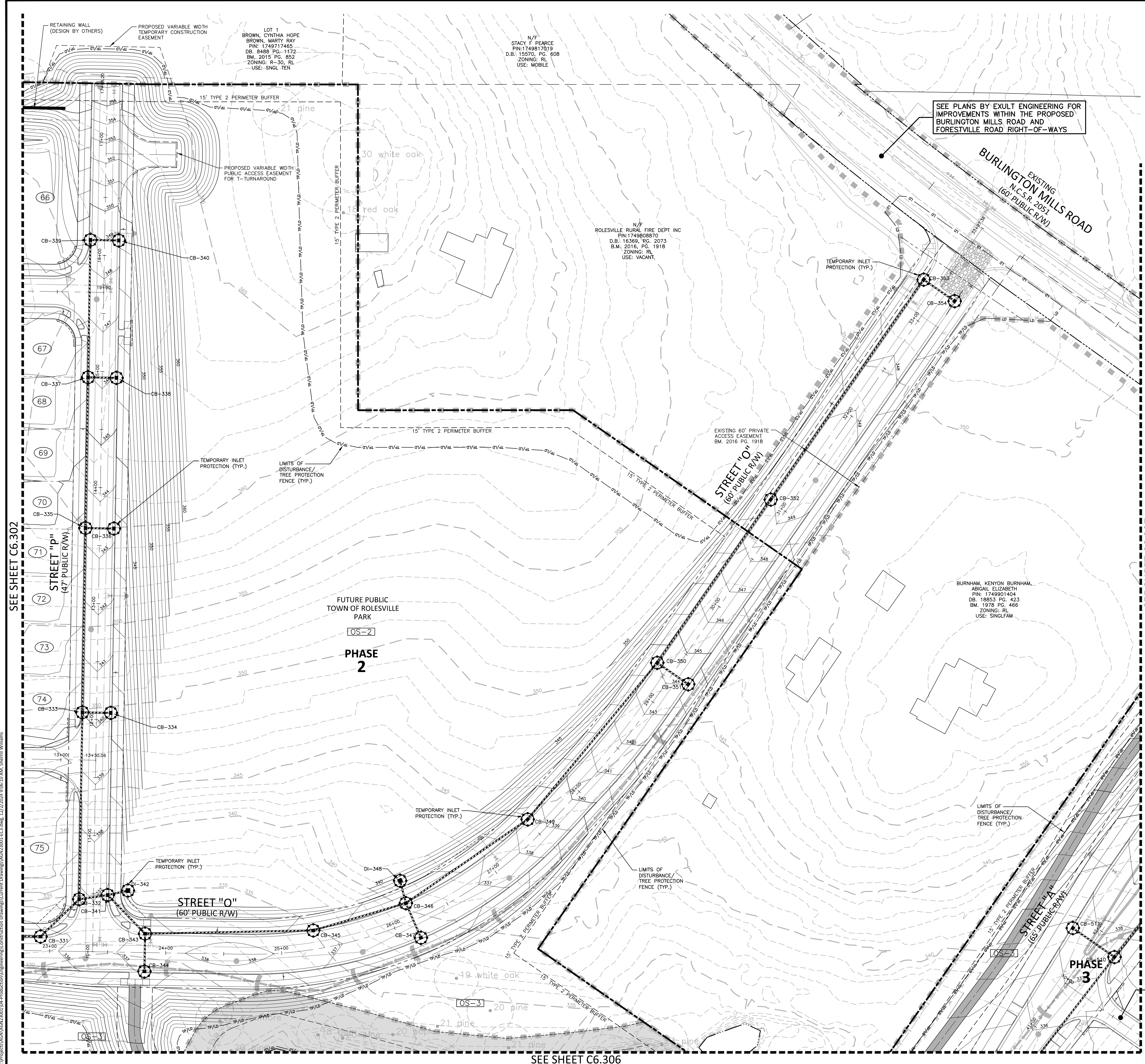
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SEE SHEET C6.301

SEE SHEET C6.303

SEE SHEET C6.305





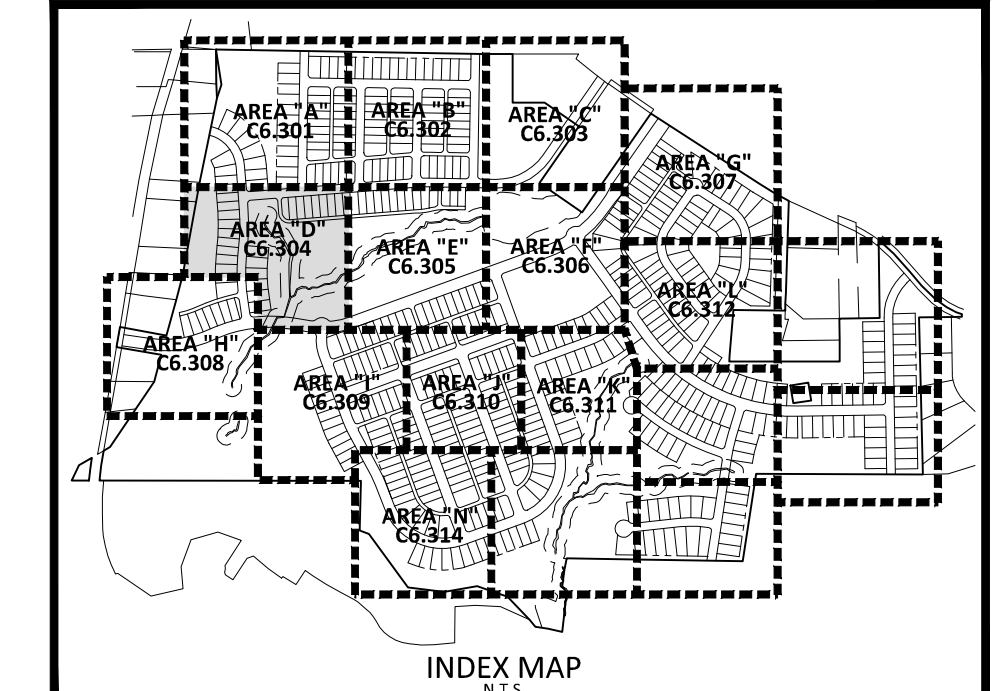
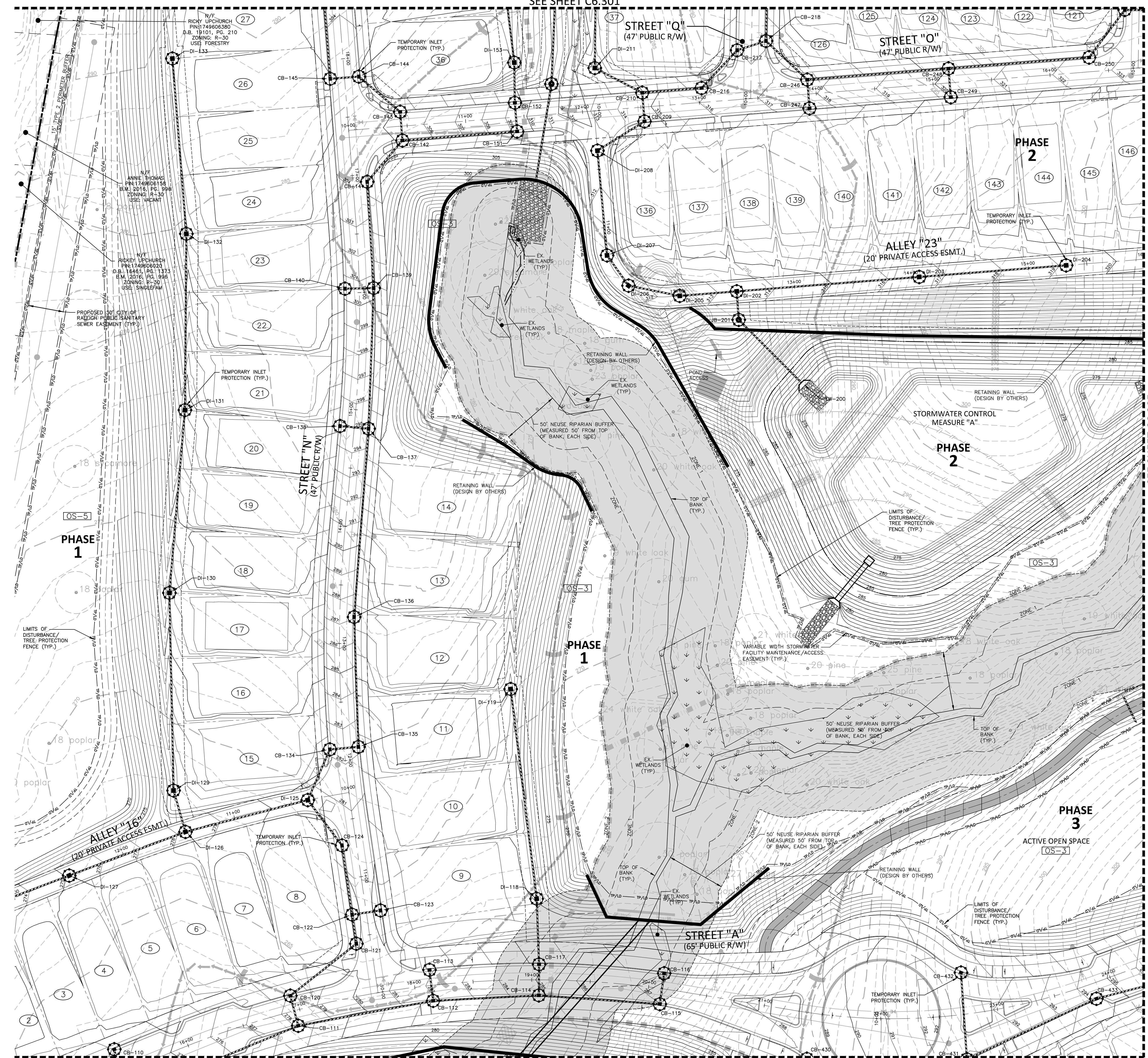
**EROSION CONTROL LEGEND**

|  |   |
|--|---|
|  | SILT FENCE OUTLET                               |
|  | INLET PROTECTION                                |
|  | INLET PROTECTION FOR EXISTING STRUCTURES        |
|  | TEMPORARY SLOPE DRAIN                           |
|  | FILTER BERM                                     |
|  | CHECK DAM                                       |
|  | SILT FENCE                                      |
|  | TREE PROTECTION FENCE                           |
|  | LIMITS OF DISTURBANCE                           |
|  | TREE PROTECTION FENCE/<br>LIMITS OF DISTURBANCE |
|  | WOODED AREA                                     |
|  | DIVERSION DITCH                                 |
|  | CONSTRUCTION ENTRANCE/EXIT                      |

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**EROSION CONTROL LEGEND**

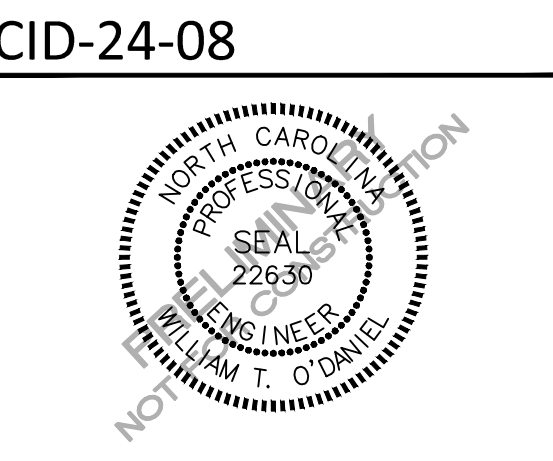
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|  | INLET PROTECTION FOR EXISTING STRUCTURES    |
|  | TEMPORARY SLOPE DRAIN                       |
|  | FILTER BERM                                 |
|  | CHECK DAM                                   |
|  | SILT FENCE                                  |
|  | TREE PROTECTION FENCE                       |
|  | LIMITS OF DISTURBANCE                       |
|  | TREE PROTECTION FENCE/LIMITS OF DISTURBANCE |
|  | WOODED AREA                                 |
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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA



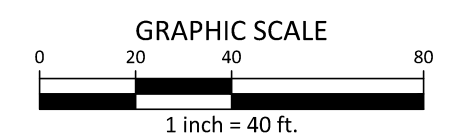
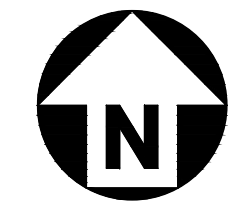
**REVISIONS**

| NO. | DATE |
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**PLAN INFORMATION**  
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 DRAWN BY .  
 SCALE 1"=40'  
 DATE 12.02.2024

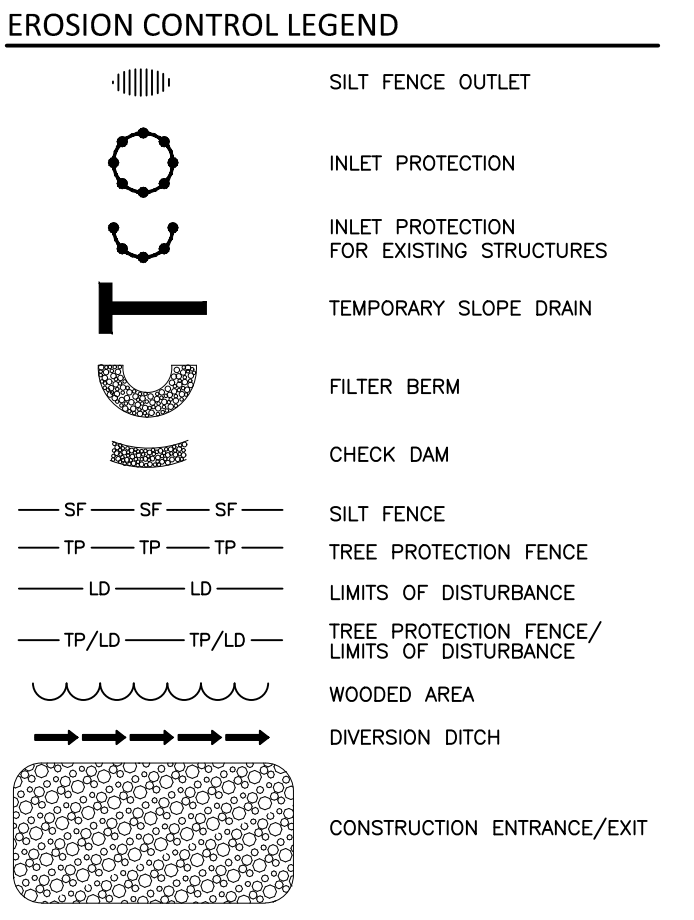
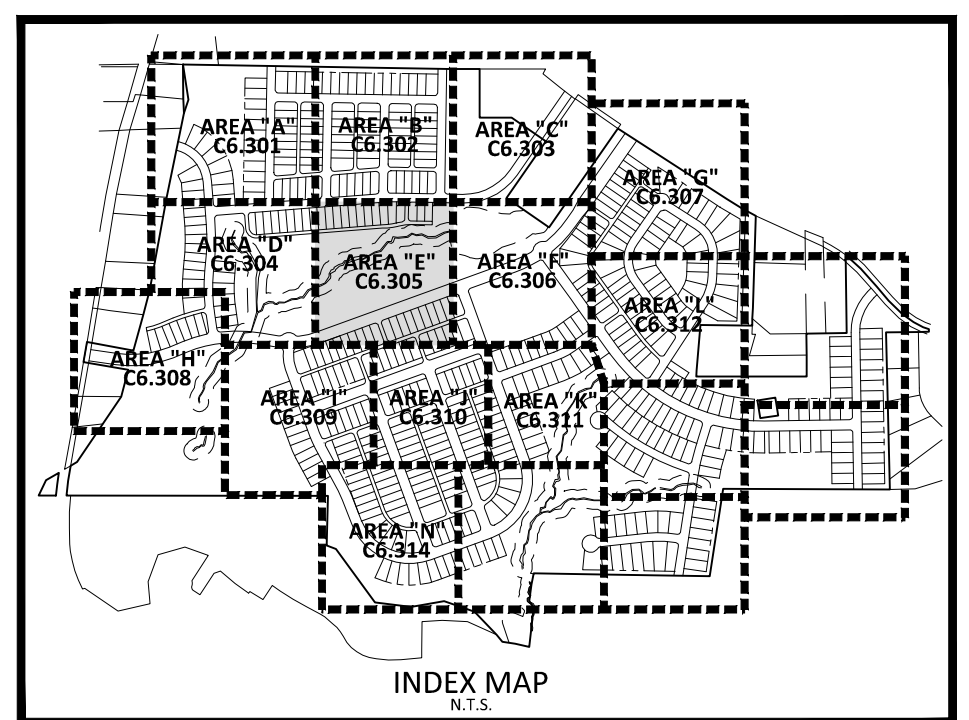
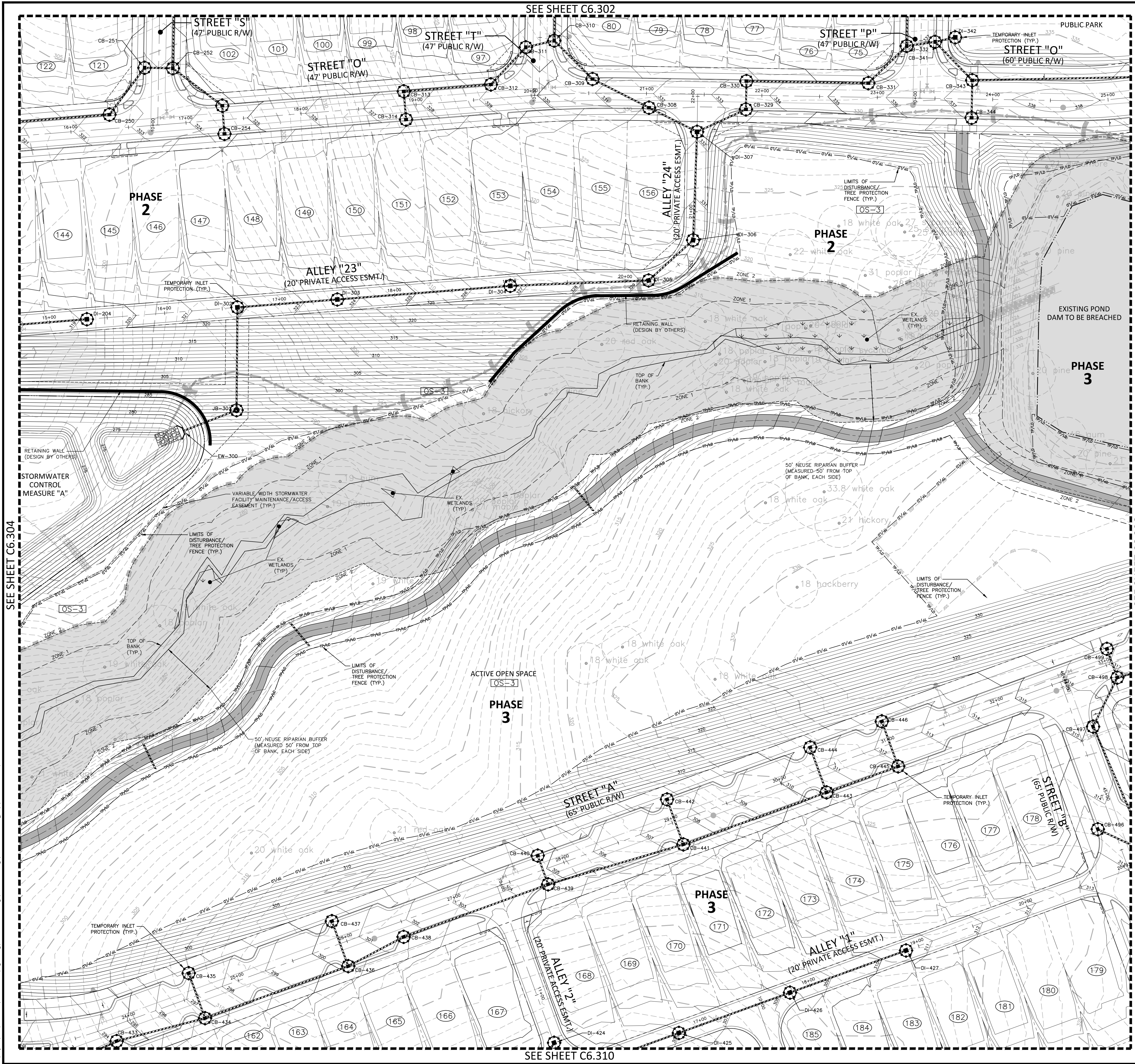
**EROSION CONTROL PLAN**  
**STAGE 3**  
**AREA "D"**  
**C6.304**

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



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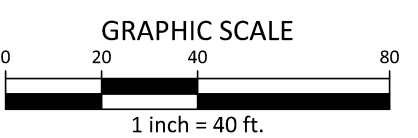


SEE SHEET C6.306

SEE SHEET C6.304

SEE SHEET C6.310

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



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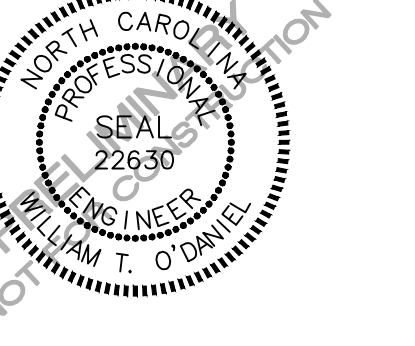
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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



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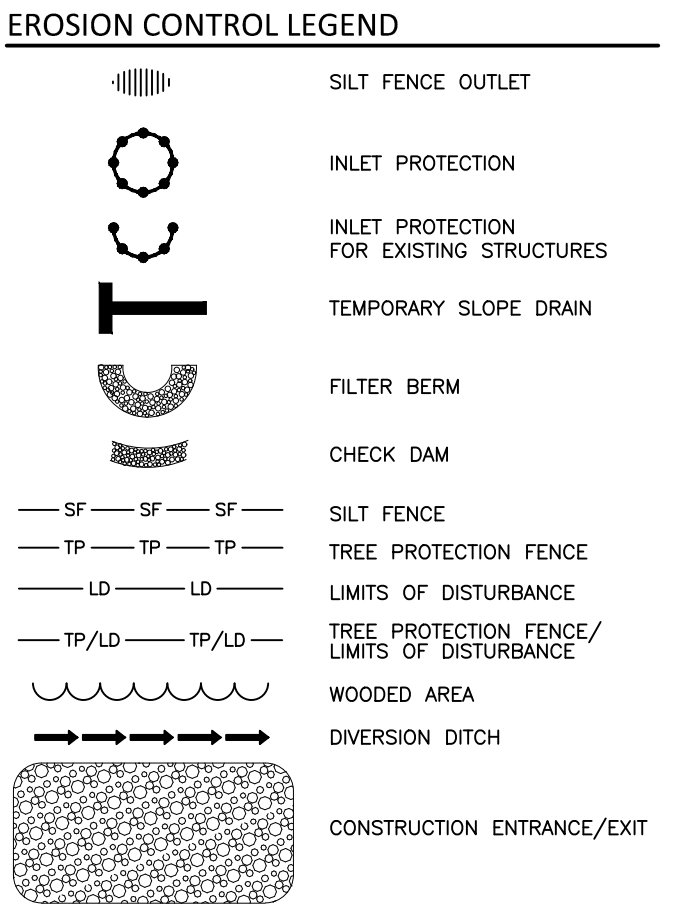
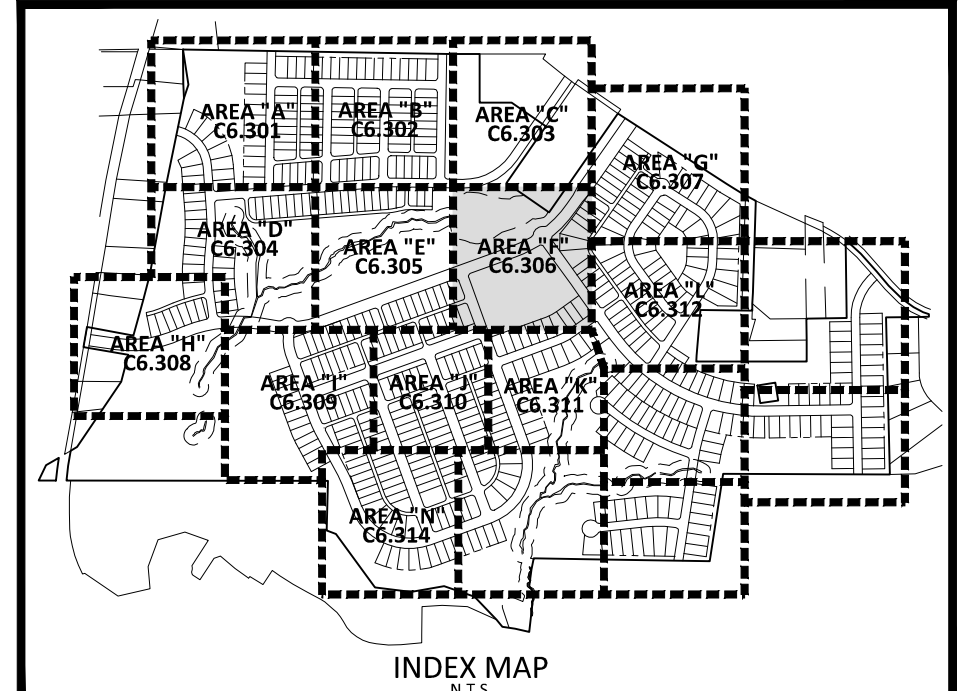
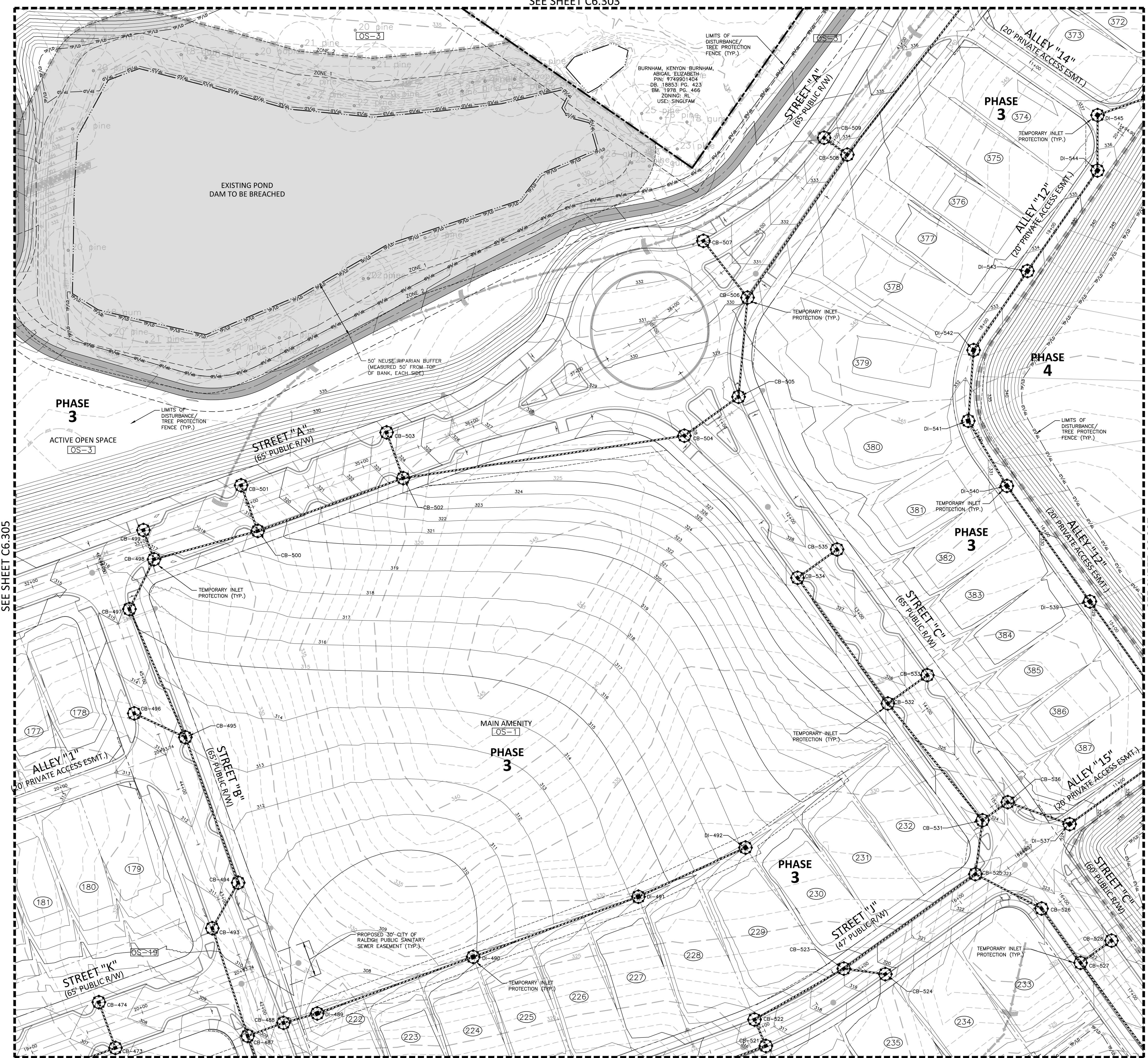
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FILENAME AGN23001-EC3  
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DRAWN BY .  
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DATE 12.02.2024

**HEET**  
**EROSION CONTROL PLAN**  
**STAGE 3**  
**AREA "E"**

**C6.305**





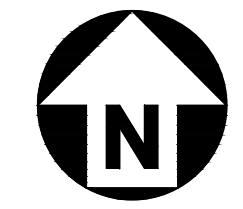
SEE SHEET C6.307

SEE SHEET C6.305

SEE SHEET C6.310

SEE SHEET C6.311

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

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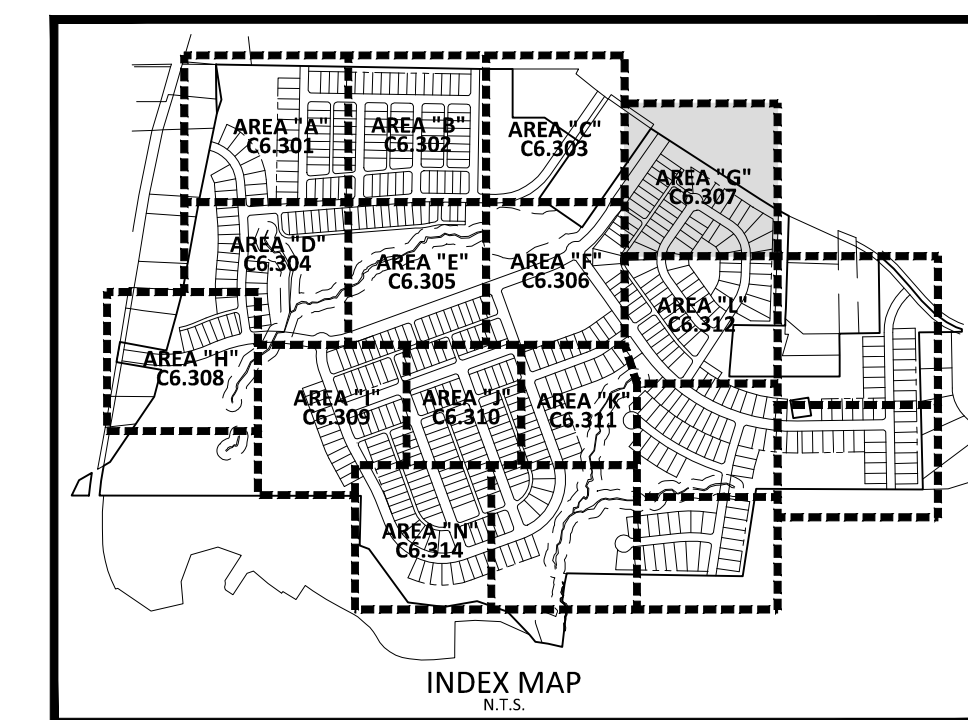
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| FILENAME    | AGN23001-EC3 |
| CHECKED BY  |              |
| DRAWN BY    |              |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 3**  
**AREA "F"**

**C6.306**





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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



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**PLAN INFORMATION**

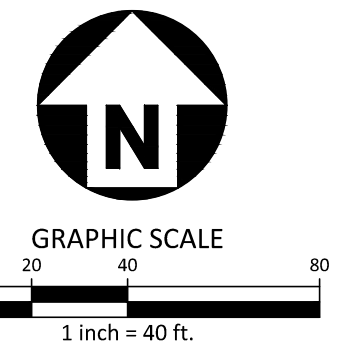
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| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 3**  
**AREA "G"**  
**C6.307**

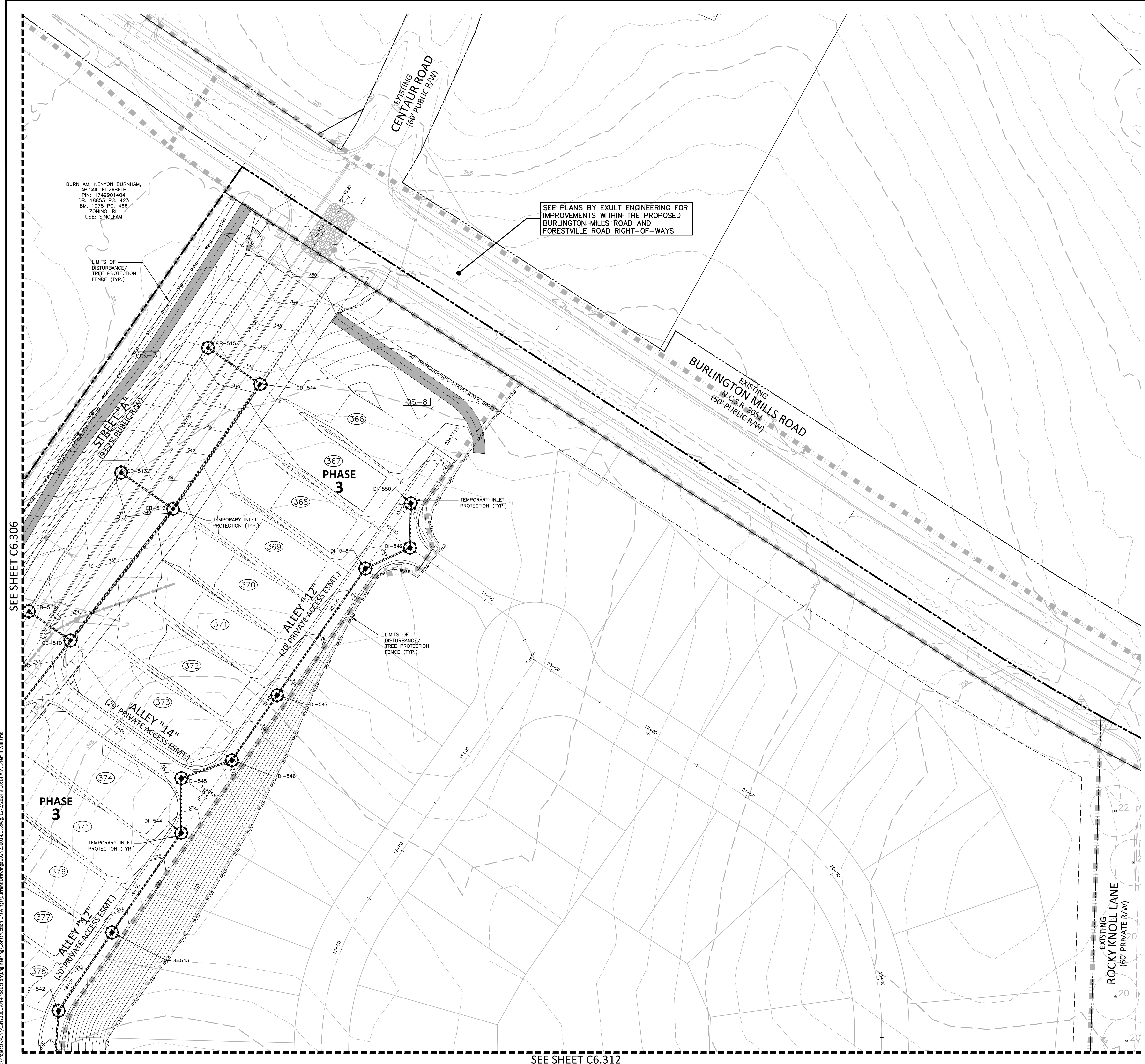
**EROSION CONTROL LEGEND**

|  |   |
|--|---|
|  | SILT FENCE OUTLET                           |
|  | INLET PROTECTION                            |
|  | INLET PROTECTION FOR EXISTING STRUCTURES    |
|  | TEMPORARY SLOPE DRAIN                       |
|  | FILTER BERM                                 |
|  | CHECK DAM                                   |
|  | SILT FENCE                                  |
|  | TREE PROTECTION FENCE                       |
|  | LIMITS OF DISTURBANCE                       |
|  | TREE PROTECTION FENCE/LIMITS OF DISTURBANCE |
|  | WOODED AREA                                 |
|  | DIVERSION DITCH                             |
|  | CONSTRUCTION ENTRANCE/EXIT                  |

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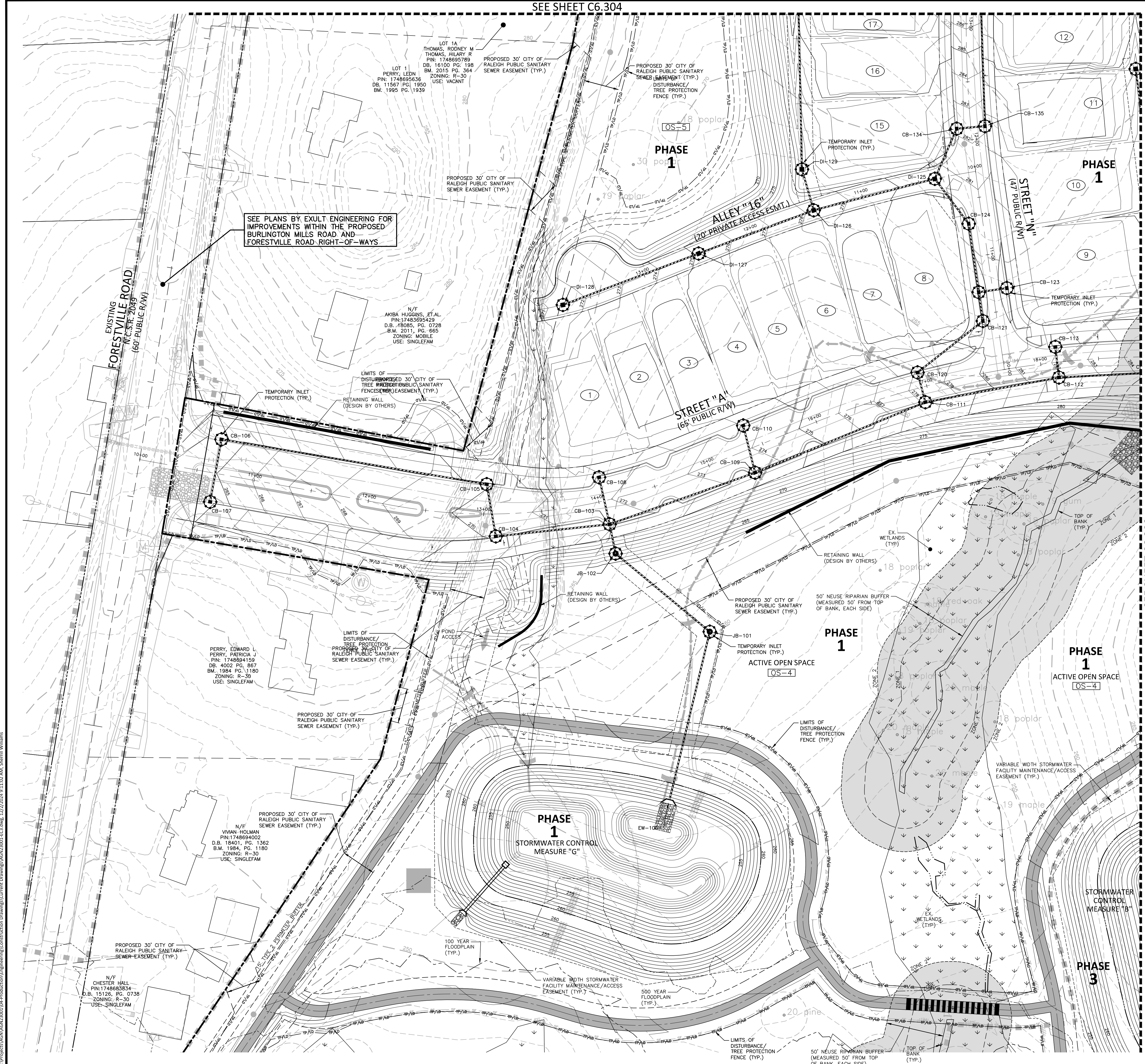
SEE PLANS BY EXULT ENGINEERING FOR IMPROVEMENTS WITHIN THE PROPOSED BURLINGTON MILLS ROAD AND FORESTVILLE ROAD RIGHT-OF-WAYS

SEE SHEET C6.306

SEE SHEET C6.312

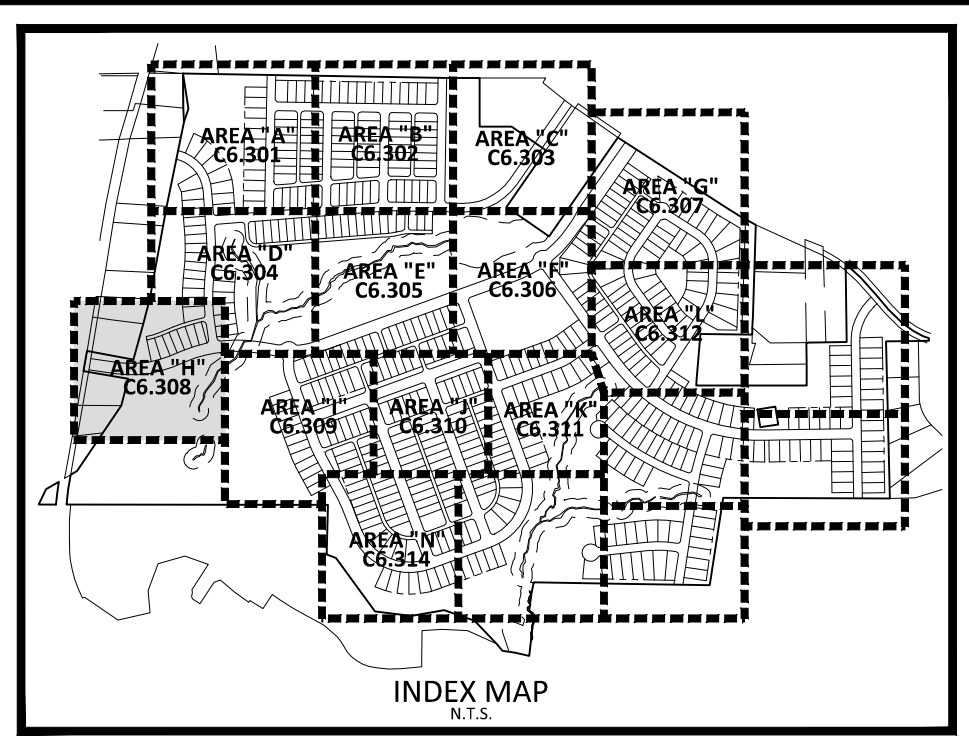
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SEE PLANS BY EXULT ENGINEERING FOR IMPROVEMENTS WITHIN THE PROPOSED BURLINGTON MILLS ROAD AND FORESTVILLE ROAD RIGHT-OF-WAYS

SEE SHEET C6.309



**EROSION CONTROL LEGEND**

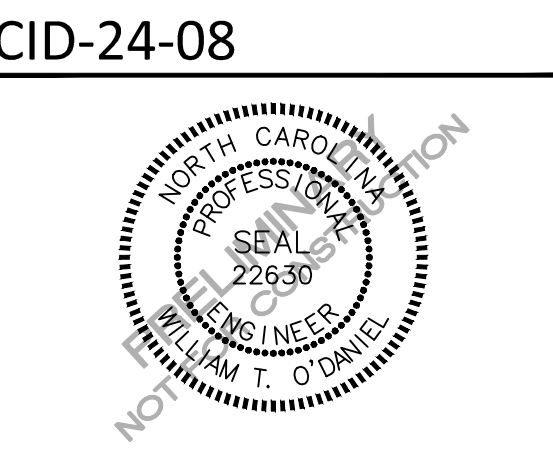
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|  | INLET PROTECTION FOR EXISTING STRUCTURES    |
|  | TEMPORARY SLOPE DRAIN                       |
|  | FILTER BERM                                 |
|  | CHECK DAM                                   |
|  | SILT FENCE                                  |
|  | TREE PROTECTION FENCE                       |
|  | LIMITS OF DISTURBANCE                       |
|  | TREE PROTECTION FENCE/LIMITS OF DISTURBANCE |
|  | WOODED AREA                                 |
|  | DIVERSION DITCH                             |
|  | CONSTRUCTION ENTRANCE/EXIT                  |

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA



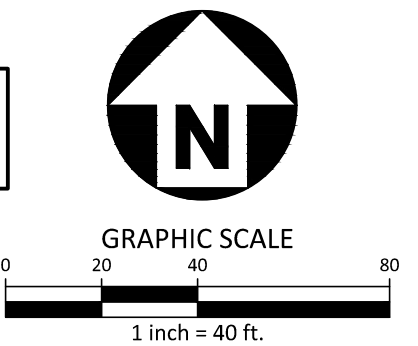
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**PLAN INFORMATION**  
PROJECT NO. AGN23001  
FILENAME AGN23001-EC3  
CHECKED BY .  
DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

**EROSION CONTROL PLAN**  
**STAGE 3**  
**AREA "H"**  
**C6.308**

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

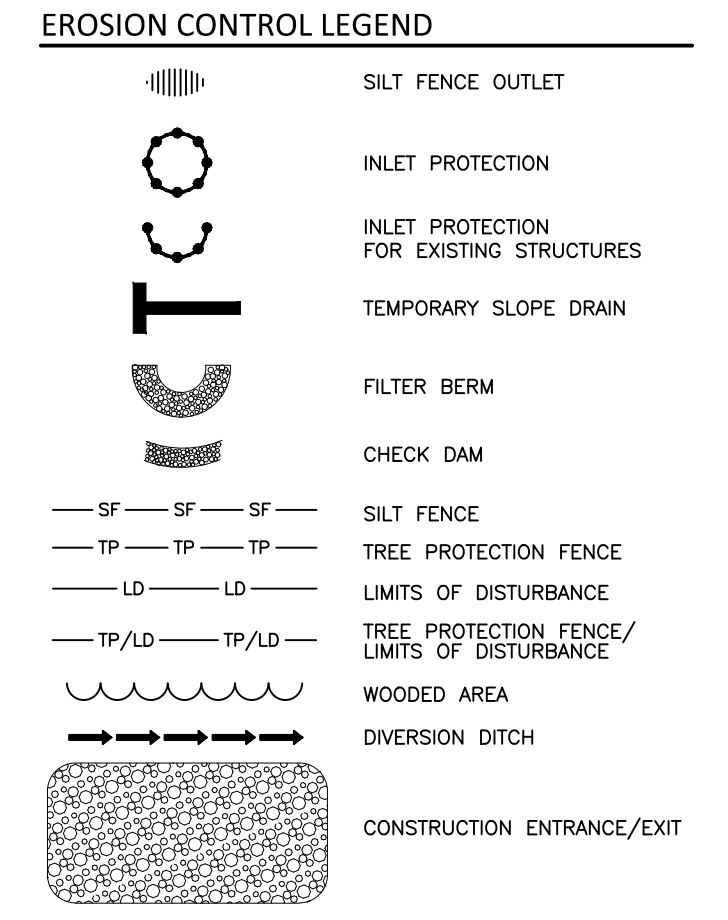
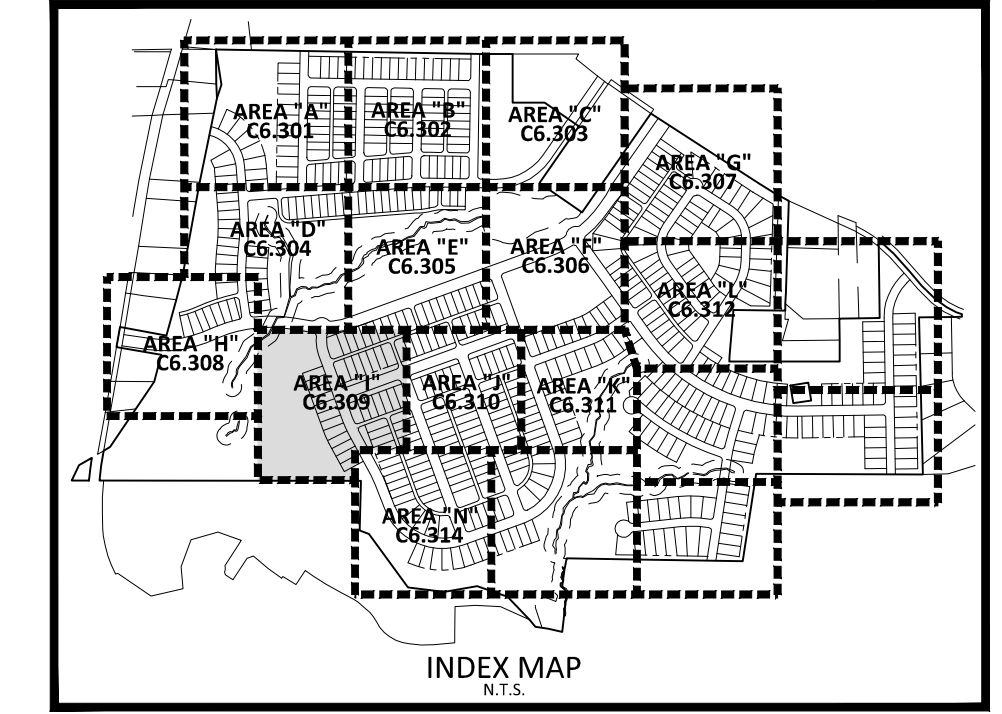




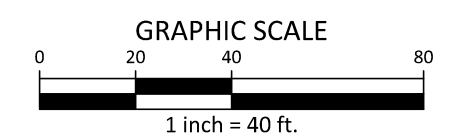
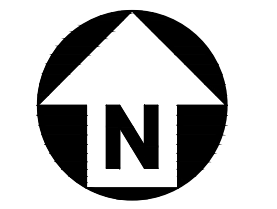


SEE SHEET C6.308

SEE SHEET C6.310



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TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



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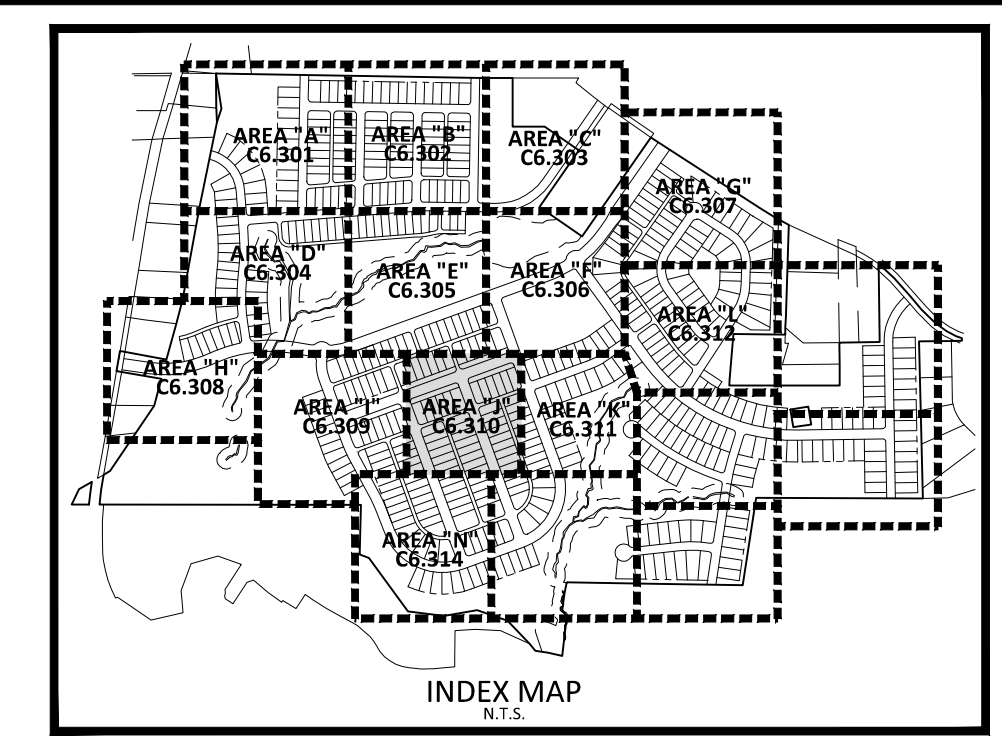
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| FILENAME    | AGN23001-EC3 |
| CHECKED BY  |              |
| DRAWN BY    |              |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**STAGE 3**  
**AREA "I"**  
**C6.309**



SEE SHEET C6.306



**EROSION CONTROL LEGEND**

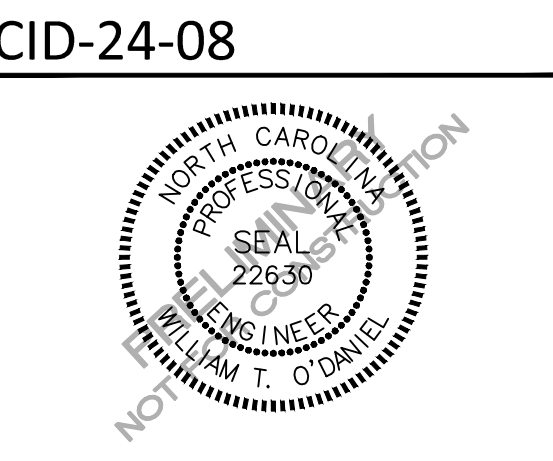
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|--|--|
|  | SILT FENCE OUTLET                            |
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|  | TEMPORARY SLOPE DRAIN                        |
|  | FILTER BERM                                  |
|  | CHECK DAM                                    |
|  | SILT FENCE                                   |
|  | TREE PROTECTION FENCE                        |
|  | LIMITS OF DISTURBANCE                        |
|  | TREE PROTECTION FENCE/ LIMITS OF DISTURBANCE |
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|  | DIVERSION DITCH                              |
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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA



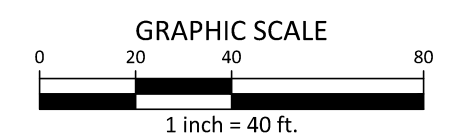
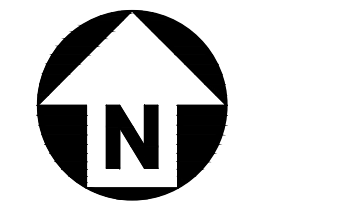
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**EROSION CONTROL PLAN**  
**STAGE 3**  
**AREA "J"**  
**C6.310**

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

SEE SHEET C6.309

SEE SHEET C6.314

SEE SHEET C6.311

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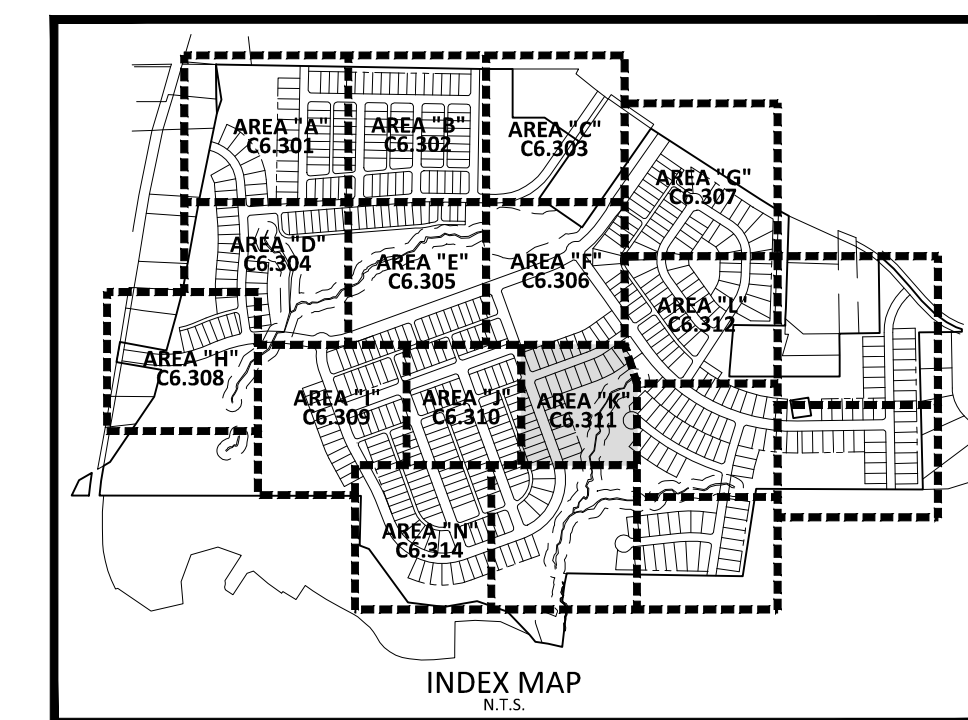


SEE SHEET C6.306

SEE SHEET C6.315

SEE SHEET C6.310

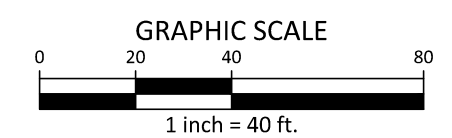
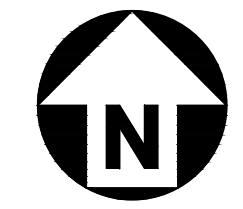
SEE SHEET C6.316



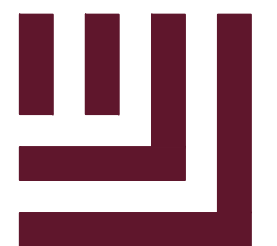
**EROSION CONTROL LEGEND**

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SILT FENCE
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



**McADAMS**

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**CLIENT**

ALLIANCE GROUP OF NC, LLC  
7208 FALLS OF NEUSE RD, SUITE 101  
RALEIGH, NORTH CAROLINA 27615  
CONTACT: JACOB ANDERSON  
PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3  
CONSTRUCTION DRAWINGS - PACKAGE 1**

BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

NO. DATE

**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AGN23001-EC3  
CHECKED BY .  
DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

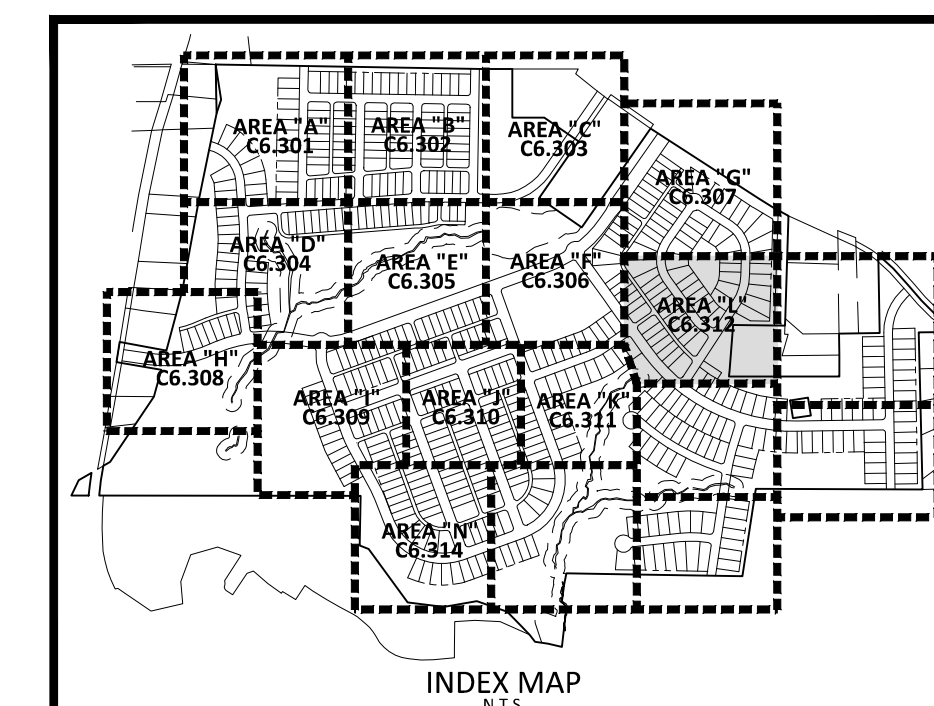
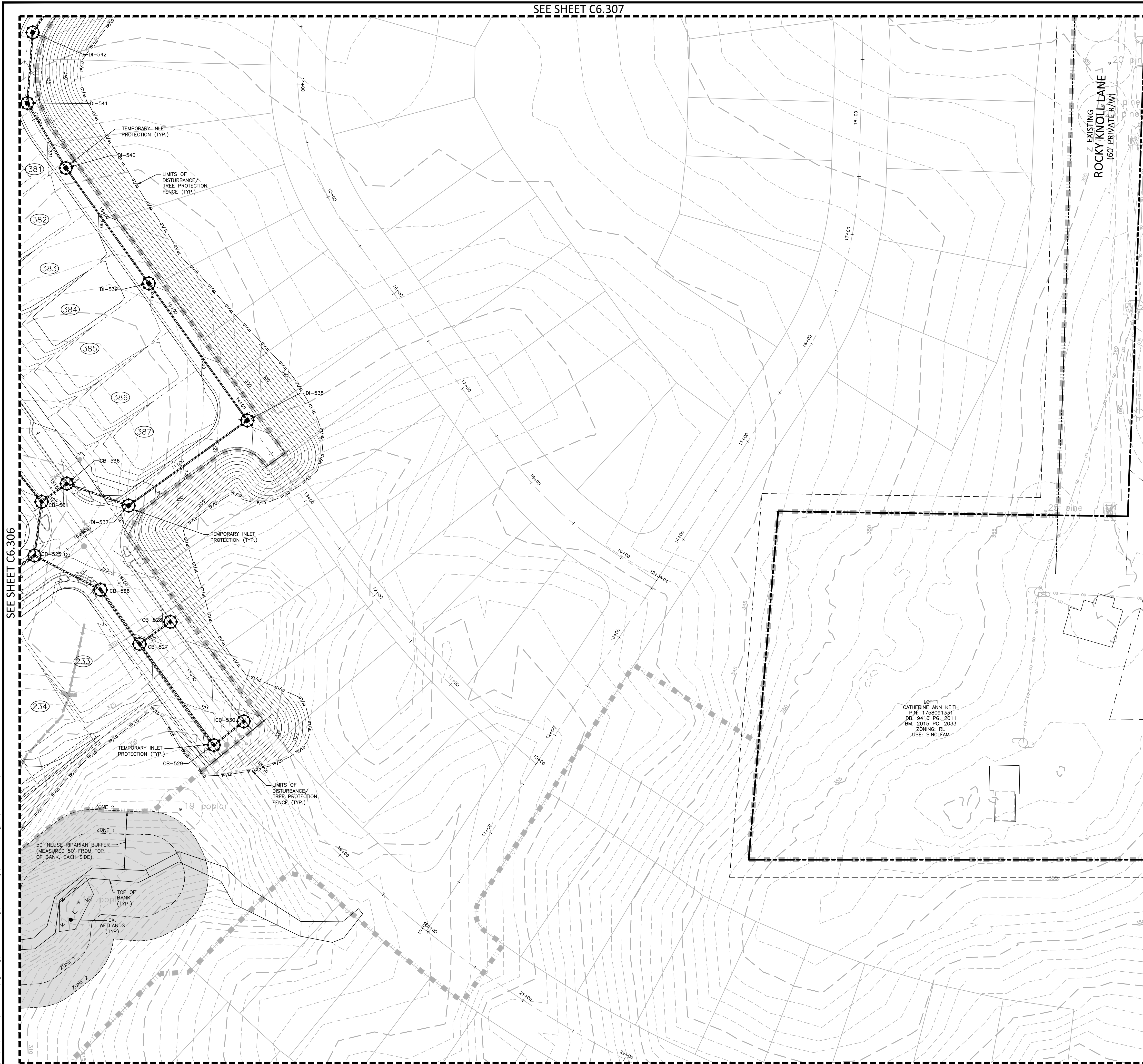
**SHEET**

**EROSION CONTROL PLAN  
STAGE 3  
AREA "K"**

**C6.311**

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EROSION CONTROL LEGEND

- SILT FENCE OUTLET
- INLET PROTECTION
- INLET PROTECTION FOR EXISTING STRUCTURES
- TEMPORARY SLOPE DRAIN
- FILTER BERM
- CHECK DAM
- SILT FENCE
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE/LIMITS OF DISTURBANCE
- WOODED AREA
- DIVERSION DITCH
- CONSTRUCTION ENTRANCE/EXIT

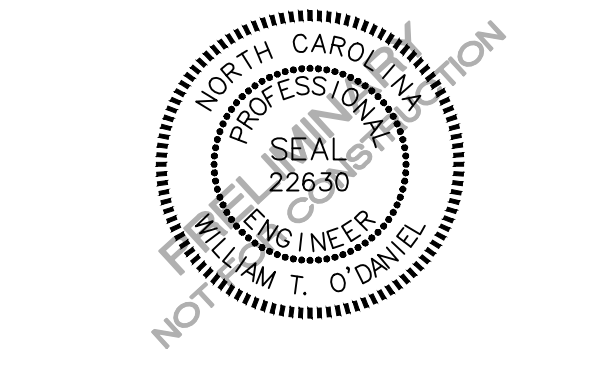
**McADAMS**  
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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
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|     |      |

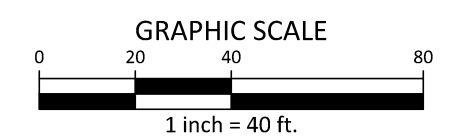
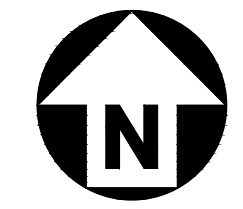
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| PROJECT NO. | AGN23001     |
| FILENAME    | AGN23001-EC3 |
| CHECKED BY  | .            |
| DRAWN BY    | .            |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**SHEET**  
**EROSION CONTROL PLAN**  
**STAGE 3**  
**AREA "L"**

**C6.312**

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

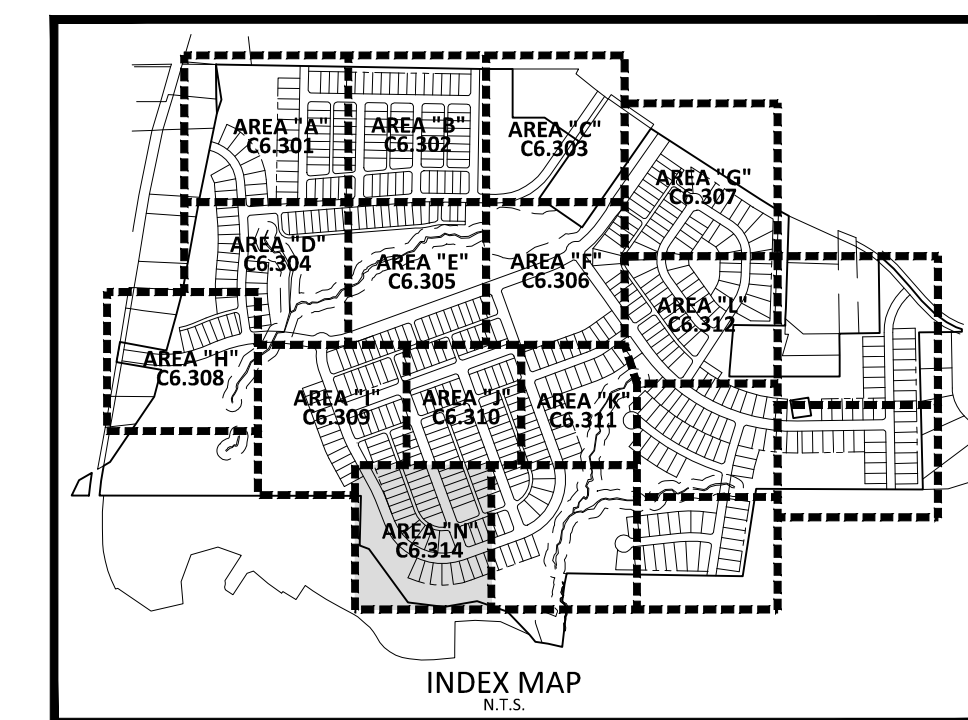


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SEE SHEET C6.309

SEE SHEET C6.315



**EROSION CONTROL LEGEND**

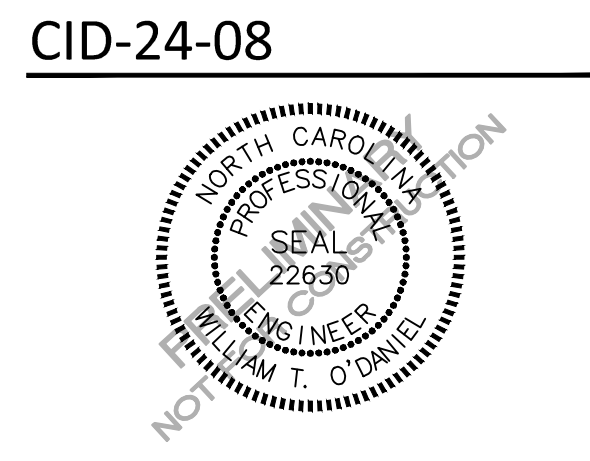
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|--|---|
|  | SILT FENCE OUTLET                           |
|  | INLET PROTECTION                            |
|  | INLET PROTECTION FOR EXISTING STRUCTURES    |
|  | TEMPORARY SLOPE DRAIN                       |
|  | FILTER BERM                                 |
|  | CHECK DAM                                   |
|  | SILT FENCE                                  |
|  | TREE PROTECTION FENCE                       |
|  | LIMITS OF DISTURBANCE                       |
|  | TREE PROTECTION FENCE/LIMITS OF DISTURBANCE |
|  | WOODED AREA                                 |
|  | DIVERSION DITCH                             |
|  | CONSTRUCTION ENTRANCE/EXIT                  |

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA



**REVISIONS**

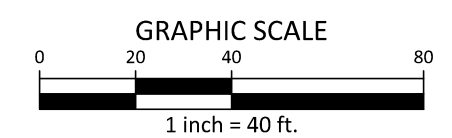
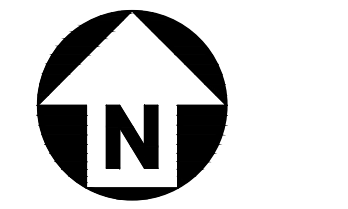
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**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AGN23001-EC3  
CHECKED BY .  
DRAWN BY .  
SCALE 1"=40'  
DATE 12.02.2024

**EROSION CONTROL PLAN**  
**STAGE 3**  
**AREA "N"**  
**C6.314**

SEE SHEET C0.01 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

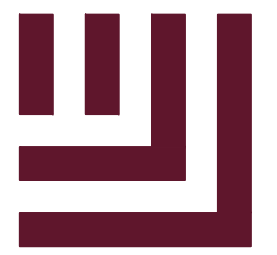


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PIN: 1748782153  
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BM: 2009 PG: 766  
ZONING: RM-CZ  
USE: HOA

DRAYTON RESERVE PROPERTY OWNERS ASSOCIATION, INC.  
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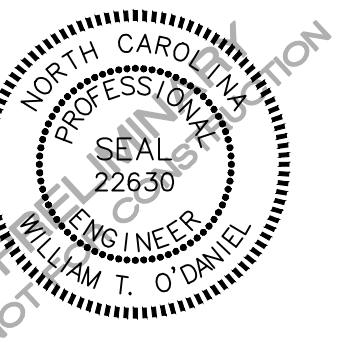
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PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1
BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



REVISIONS

NO. DATE

PLAN INFORMATION

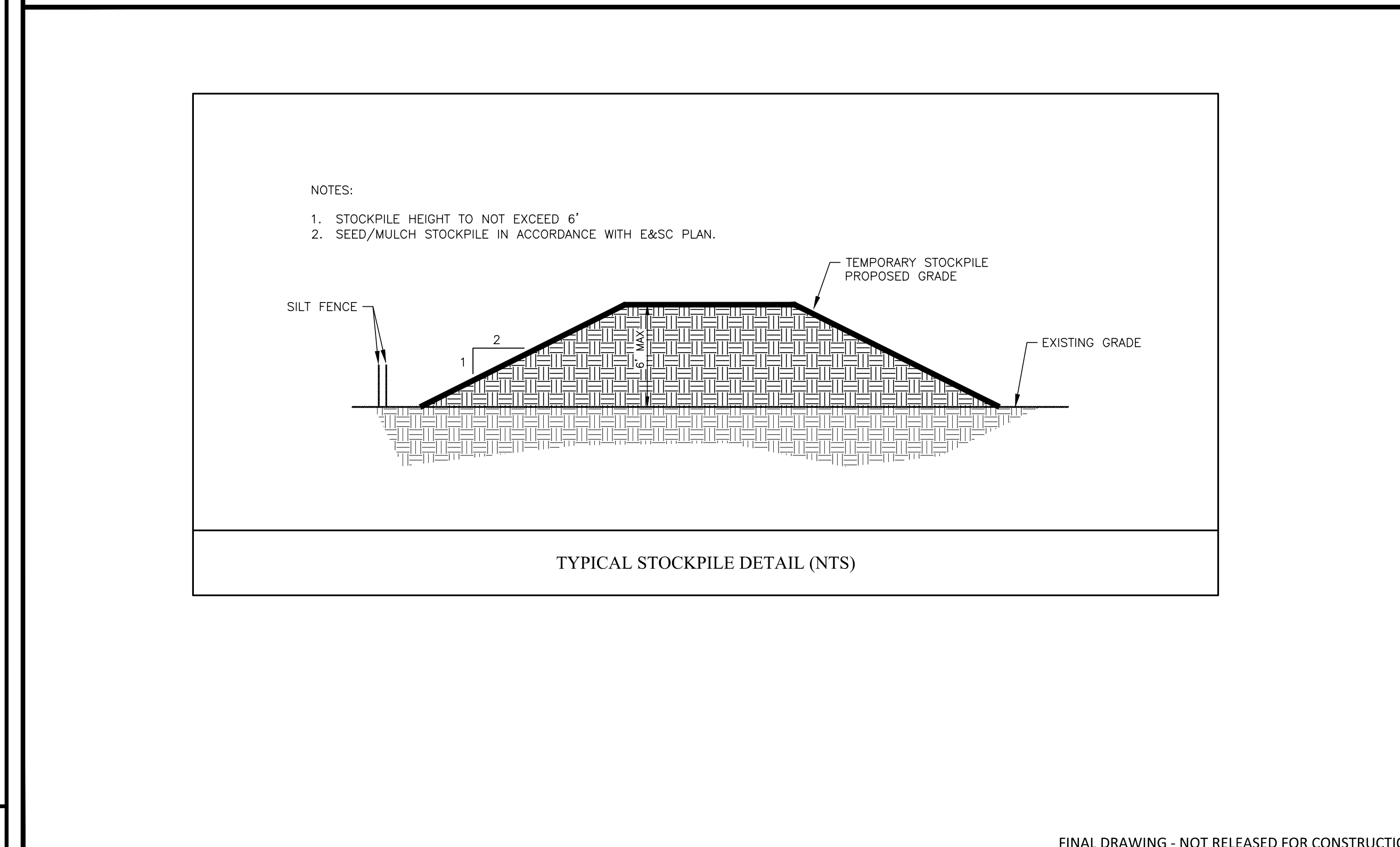
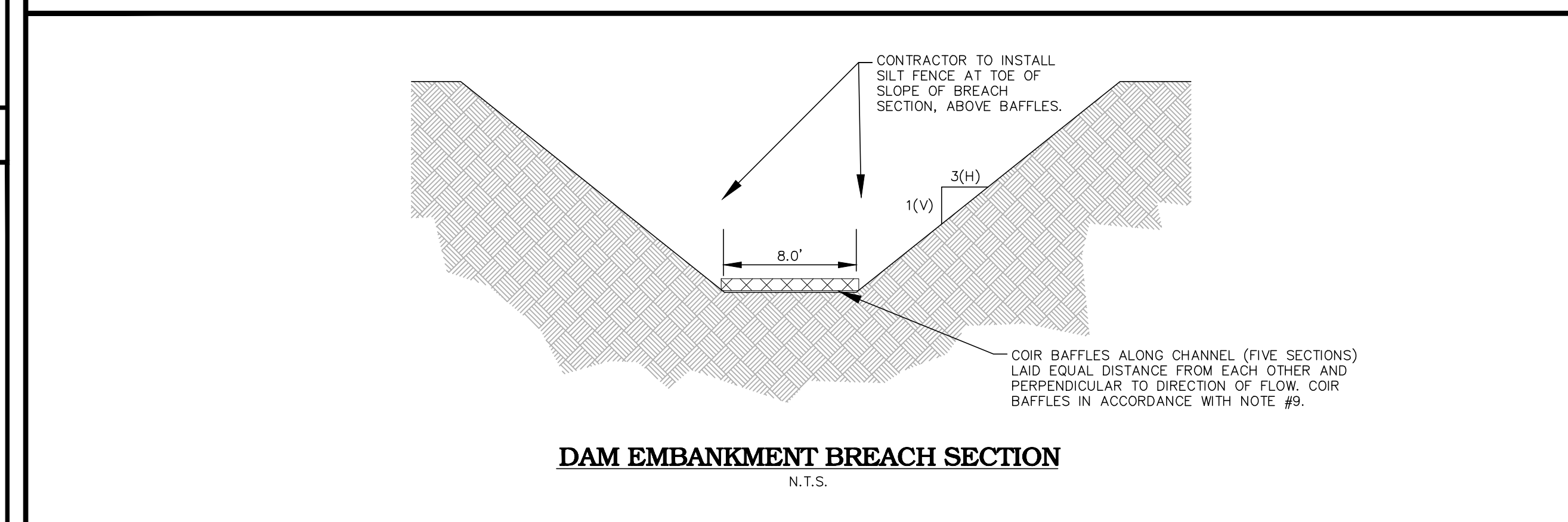
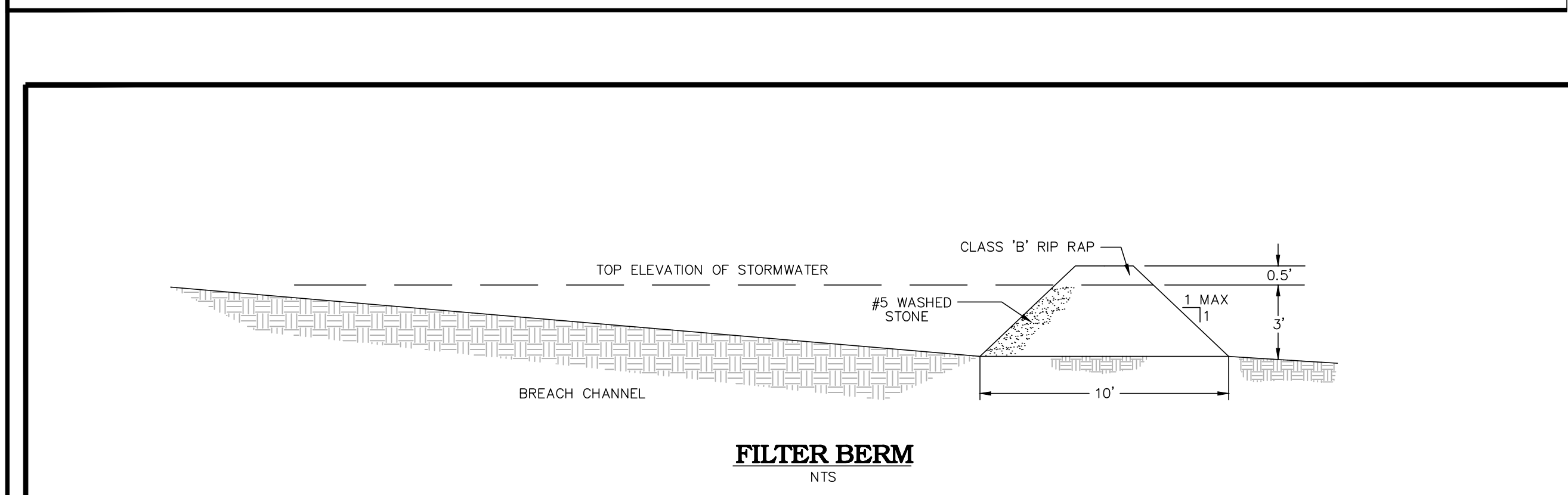
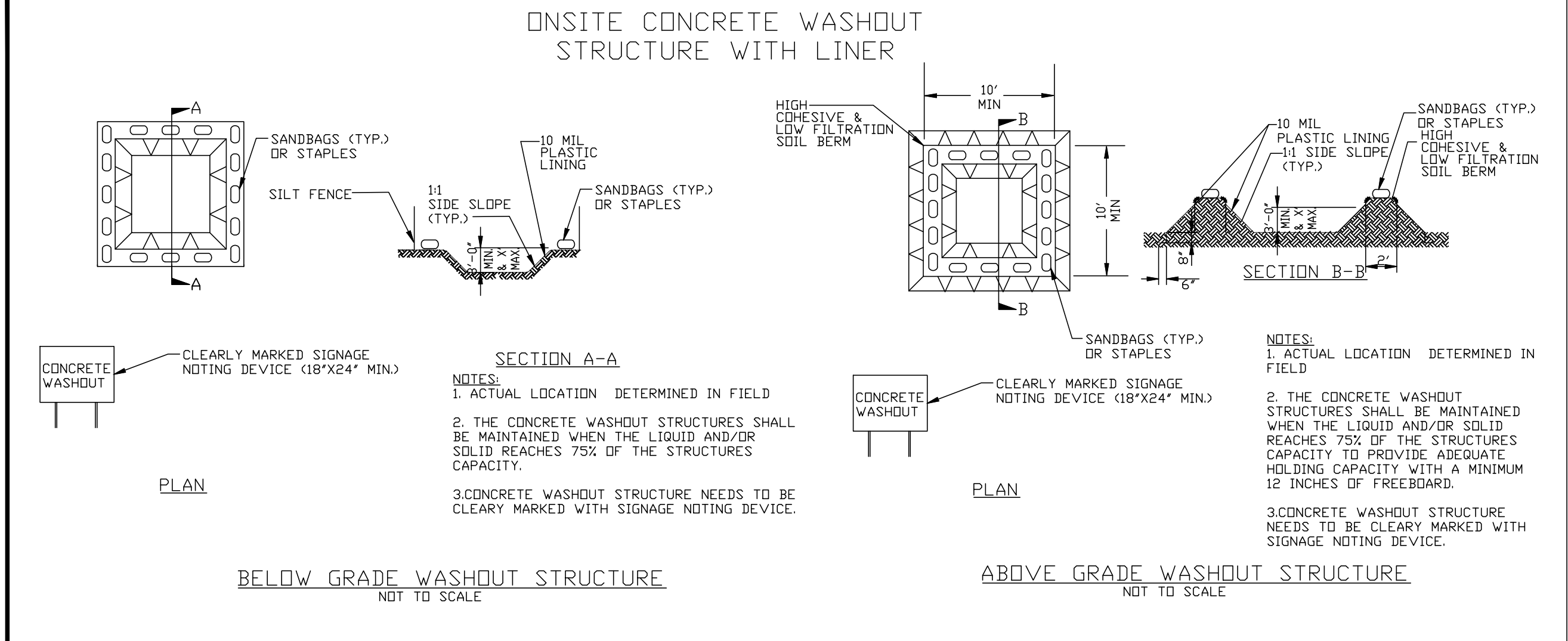
PROJECT NO. AGN23001
FILENAME AWH20000-CD-PKG-02-EC4
CHECKED BY
DRAWN BY
SCALE N.T.S.
DATE 12.02.2024

SHEET

EROSION CONTROL
DETAILS

C6.19

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT. Table with columns: Site Area Description, Stabilize within this many calendar days after ceasing land disturbance, Timeframe variations.

- EQUIPMENT AND VEHICLE MAINTENANCE
1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible...
4. Collect all spent fluids, store in separate containers...
5. Remove leaking vehicles and construction equipment...
6. Bring used fuels, lubricants, coolants, hydraulic fluids...

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE
1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers...
3. Locate waste containers at least 50 feet away from storm drain inlets...
4. Locate waste containers on areas that do not receive substantial amounts of runoff...
5. Cover waste containers at the end of each workday...
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters...
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS
1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material.

EARTHEN STOCKPILE MANAGEMENT
1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters...
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements.

- CONCRETE WASHOUTS
1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations...
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier...
4. Install temporary concrete washouts per local requirements...
5. Locate washouts at least 50 feet from storm drain inlets and surface waters...
6. Locate washouts in an easily accessible area, on level ground...
7. Locate washouts in an easily accessible area, on level ground...
8. Install at least one sign directing concrete trucks to the washout...
9. Remove leavings from the washout when at approximately 75% capacity...
10. At the completion of the concrete work, remove remaining leavings...

HERBICIDES, PESTICIDES AND RODENTICIDES
1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers...
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible...
4. Do not stockpile these materials on-site.

HAZARDOUS AND TOXIC WASTE
1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING. SECTION A: SELF-INSPECTION. Table with columns: Inspect, Frequency (during normal business hours), Inspection records must include.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING. SECTION B: RECORDKEEPING. Table with columns: Item to Document, Documentation Requirements.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING. SECTION C: REPORTING. Table with columns: Occurrence, Reporting Timeframes (After Discovery) and Other Requirements.

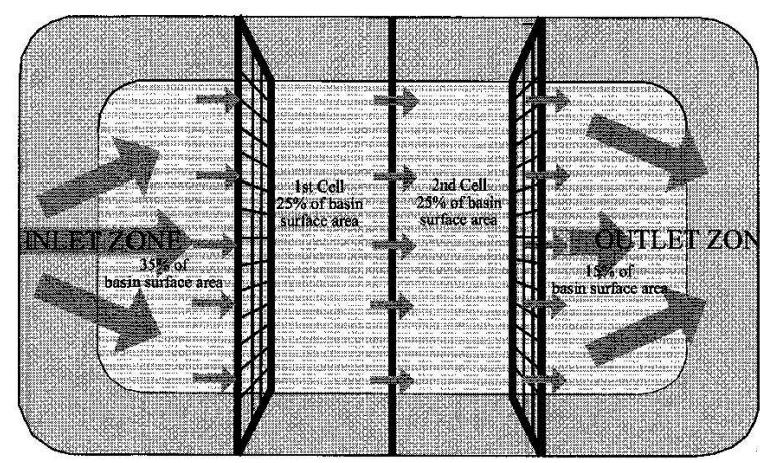
- DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out...
(a) The E&S plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur.
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit.
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin.
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in item (c) above.
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices.
(f) Sediment removed from the dewatering treatment devices described in item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

- PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT
Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible.
(a) The E&S plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur.
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit.
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin.
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in item (c) above.
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices.
(f) Sediment removed from the dewatering treatment devices described in item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

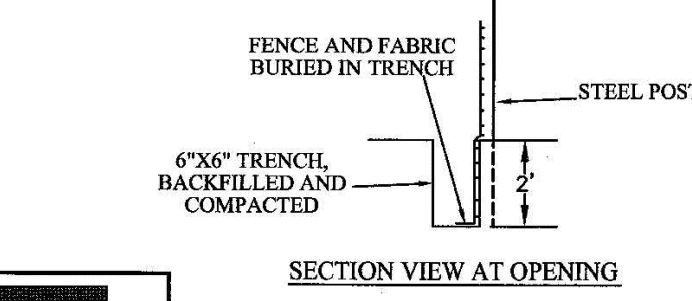
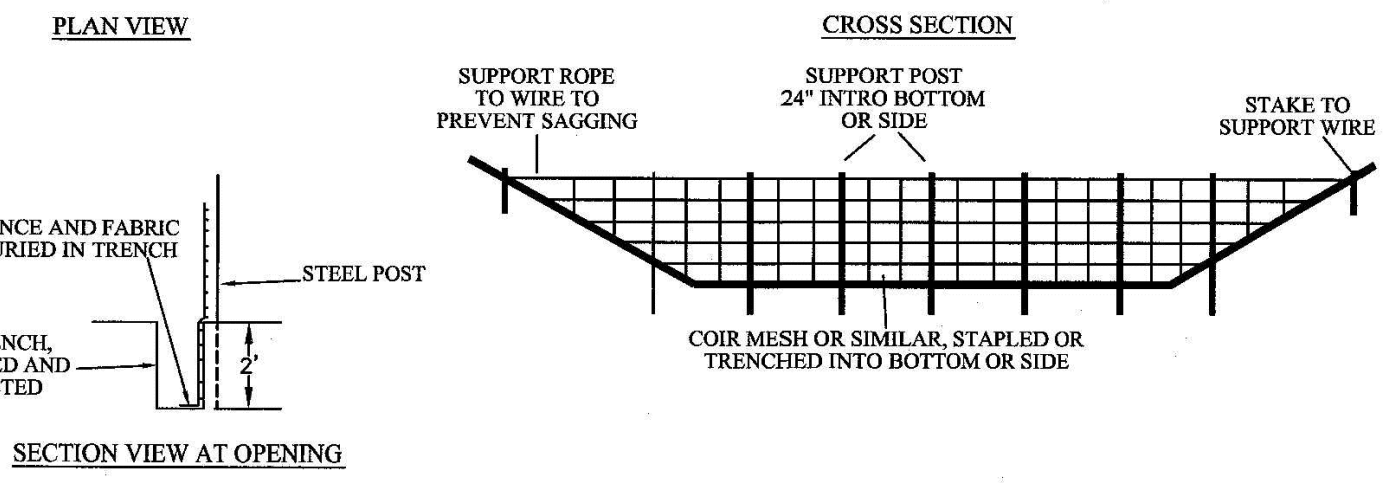
- PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING. SECTION C: REPORTING. Table with columns: Occurrence, Reporting Timeframes (After Discovery) and Other Requirements.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19

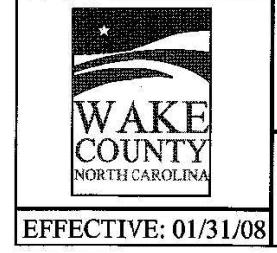




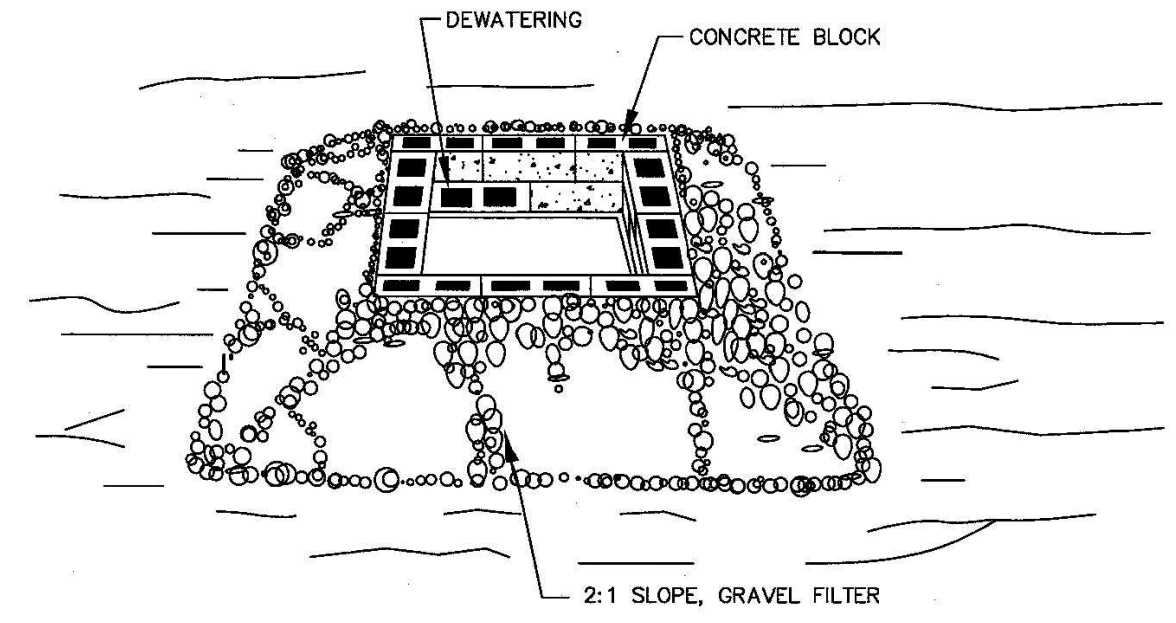
- NOTES:**
1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
  2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
  3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH), PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
  4. BAFFLES SHALL BE 700 GMS COIR EROSION BLANKET.
  5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS.
  6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL.



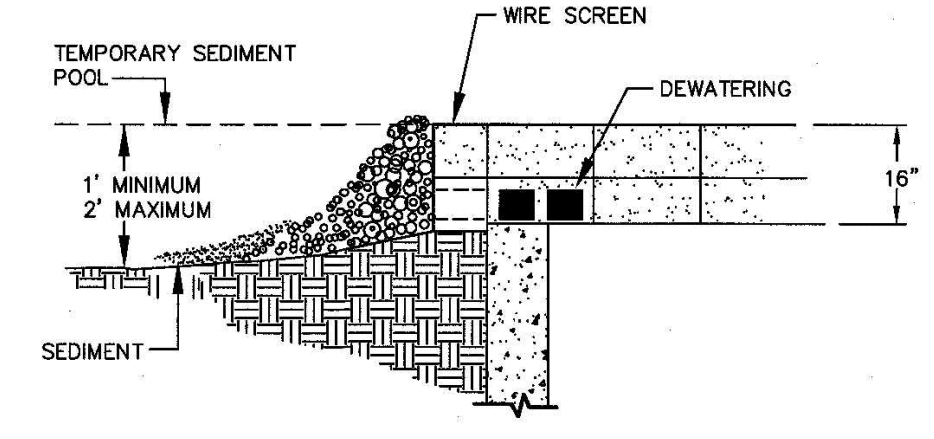
**STANDARD BAFFLES DETAIL**



EFFECTIVE: 01/31/08

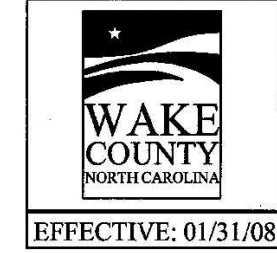


- CONSTRUCTION SPECIFICATIONS**
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2x4 WOOD STUDS THROUGH BLOCK OPENINGS.
  2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
  3. USE CLEAN GRAVEL, 3/4 TO 1/2 INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.

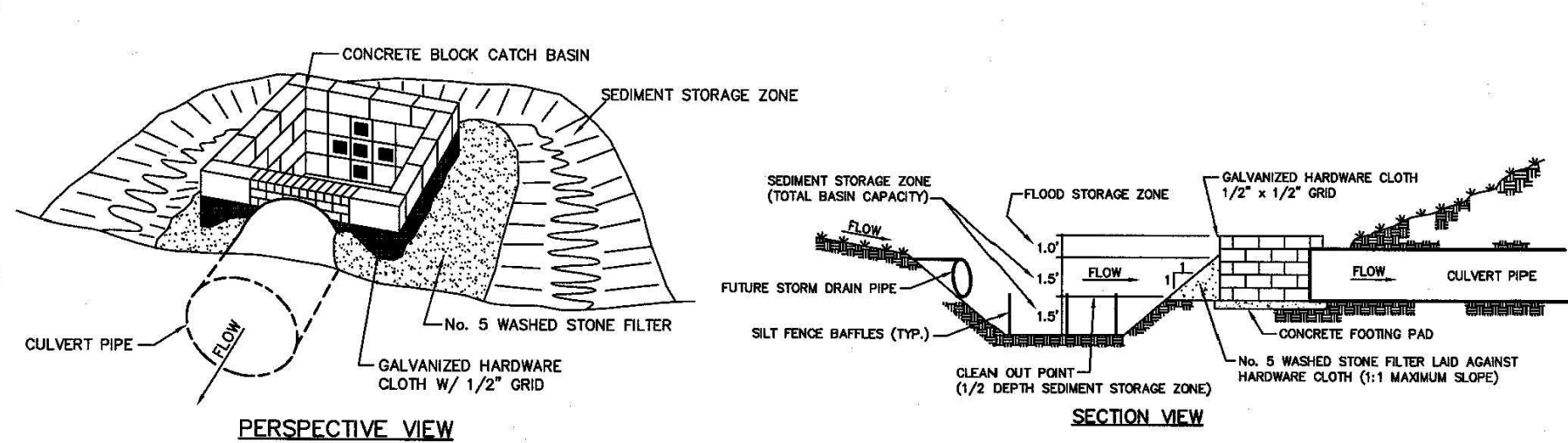


**MAINTENANCE:** INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

**STANDARD BLOCK & GRAVEL DROP INLET PROTECTION**

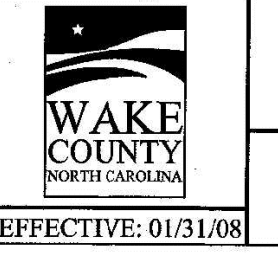


EFFECTIVE: 01/31/08

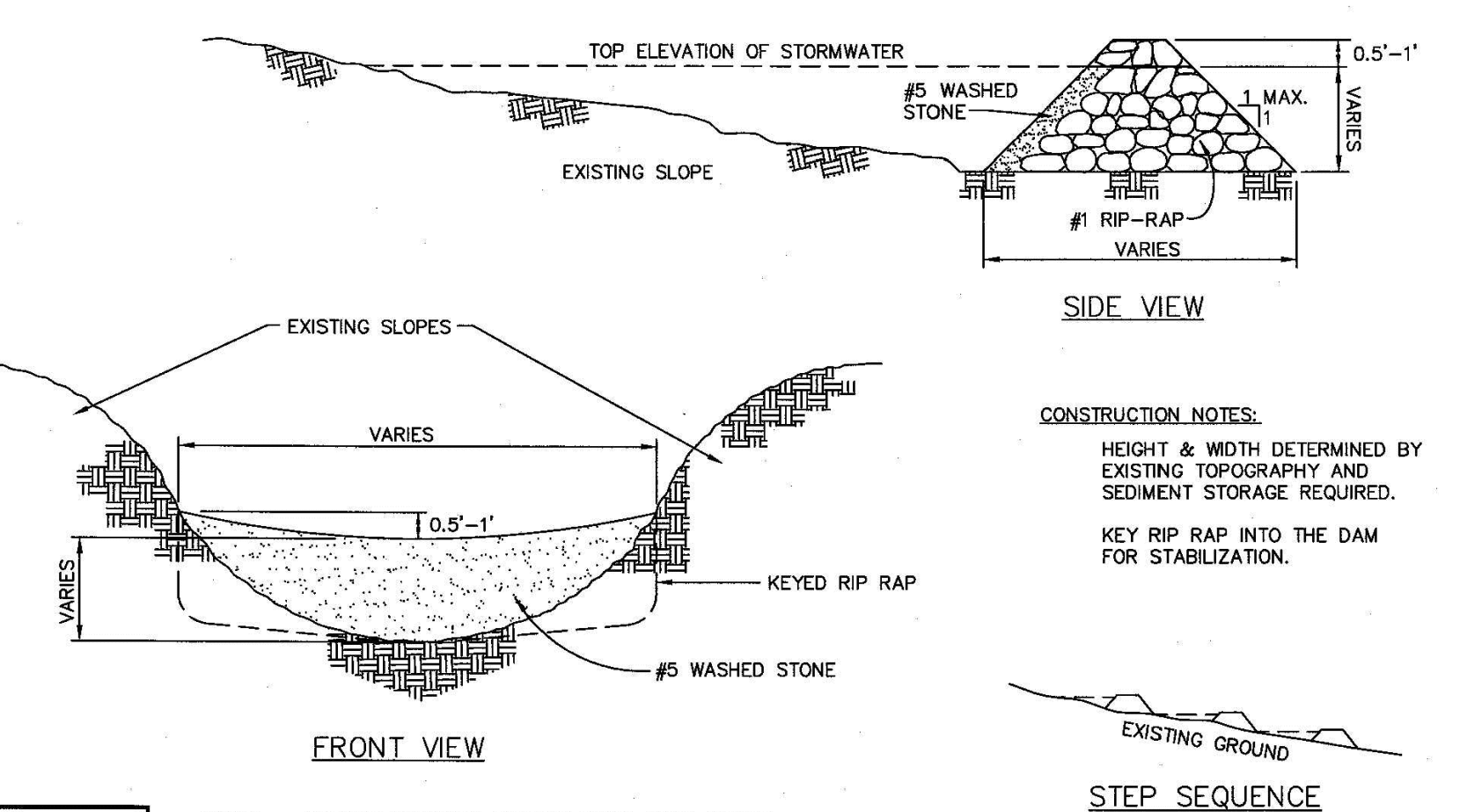


- USE OF CATCH BASIN RISER/FILTER ON FILL SITES**
1. INITIAL CATCH BASIN RISER/FILTER.
  2. PROVIDE SEDIMENT STORAGE ZONE.
  3. PROVIDE SILT FENCE (TYP.).
  4. CLEAN OUT POINT (1/2 DEPTH SEDIMENT STORAGE ZONE).
  5. GALVANIZED HARDWARE CLOTH W/ 1/2" GRID.
  6. FUTURE STORM DRAIN PIPE.
  7. SILT FENCE BAFFLES (TYP.).
  8. GALVANIZED HARDWARE CLOTH W/ 1/2" GRID.
  9. CONCRETE FOOTING PAD.
  10. GALVANIZED HARDWARE CLOTH (1" MAXIMUM SLIP).

**STANDARD CATCH BASIN RISER/FILTER**



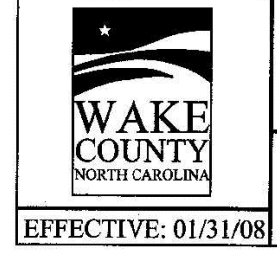
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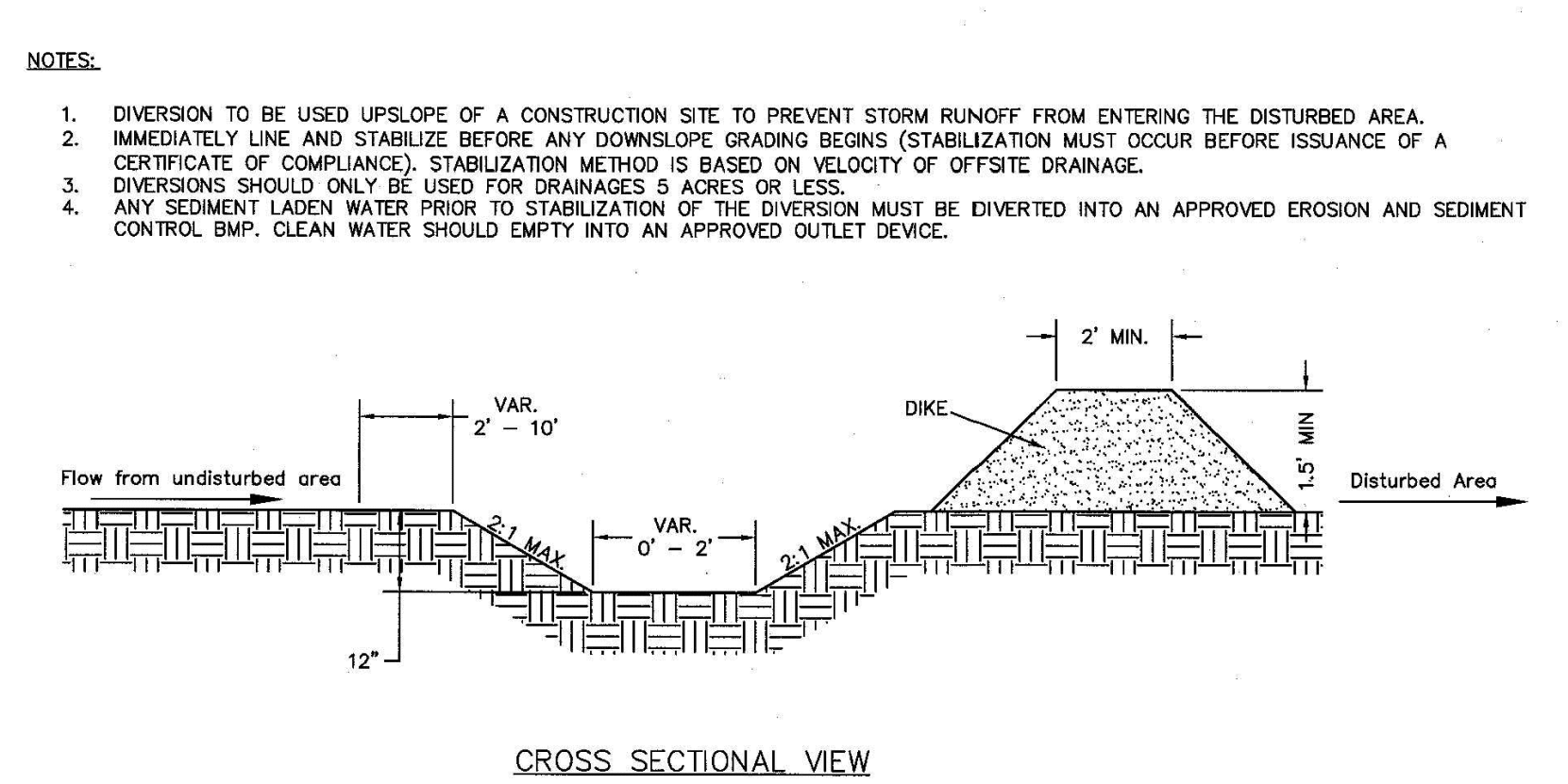
- CONSTRUCTION NOTES:**
- HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.
  - KEY RIP RAP INTO THE DAM FOR STABILIZATION.

**STEP SEQUENCE**

**STANDARD CHECK DAM**

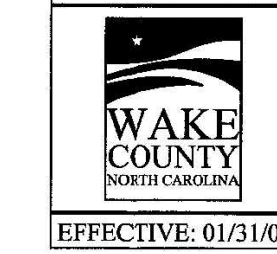


EFFECTIVE: 01/31/08

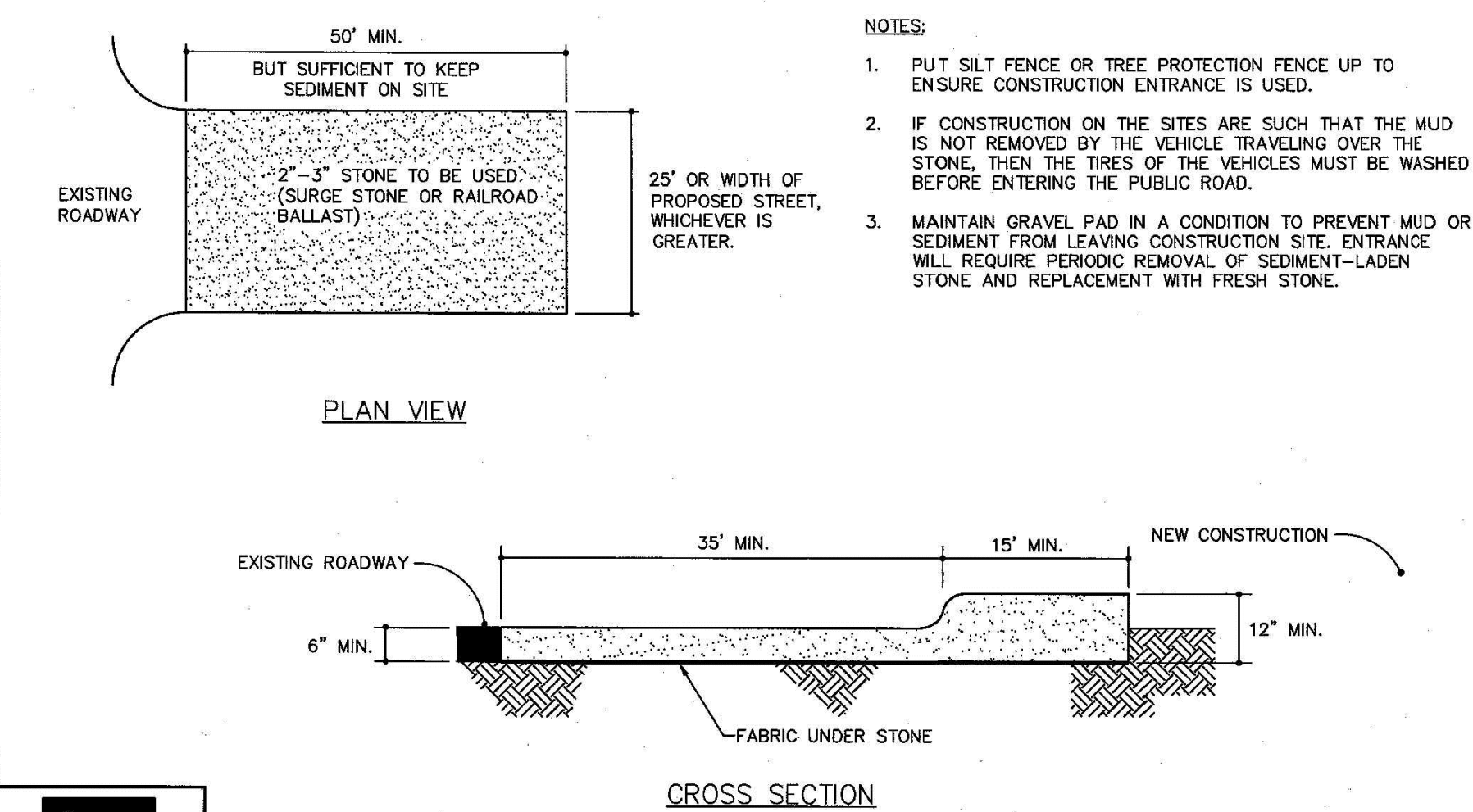


- NOTES:**
1. DIVERSION TO BE USED UPSLOPE OF A CONSTRUCTION SITE TO PREVENT STORM RUNOFF FROM ENTERING THE DISTURBED AREA.
  2. IMMEDIATELY LINE AND STABILIZE BEFORE ANY DOWNSLOPE GRADING BEGINS (STABILIZATION MUST OCCUR BEFORE ISSUANCE OF A CERTIFICATE OF COMPLIANCE). STABILIZATION METHOD IS BASED ON VELOCITY OF OFFSITE DRAINAGE.
  3. DIVERSIONS SHOULD ONLY BE USED FOR DRAINAGES 5 ACRES OR LESS.
  4. ANY SEDIMENT LADEN WATER PRIOR TO STABILIZATION OF THE DIVERSION MUST BE DIVERTED INTO AN APPROVED EROSION AND SEDIMENT CONTROL BMP. CLEAN WATER SHOULD EMPTY INTO AN APPROVED OUTLET DEVICE.

**STANDARD CLEAN WATER DIVERSION**

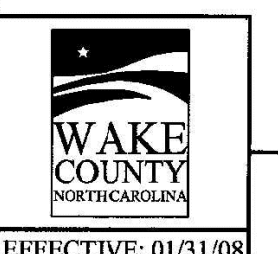


EFFECTIVE: 01/31/08

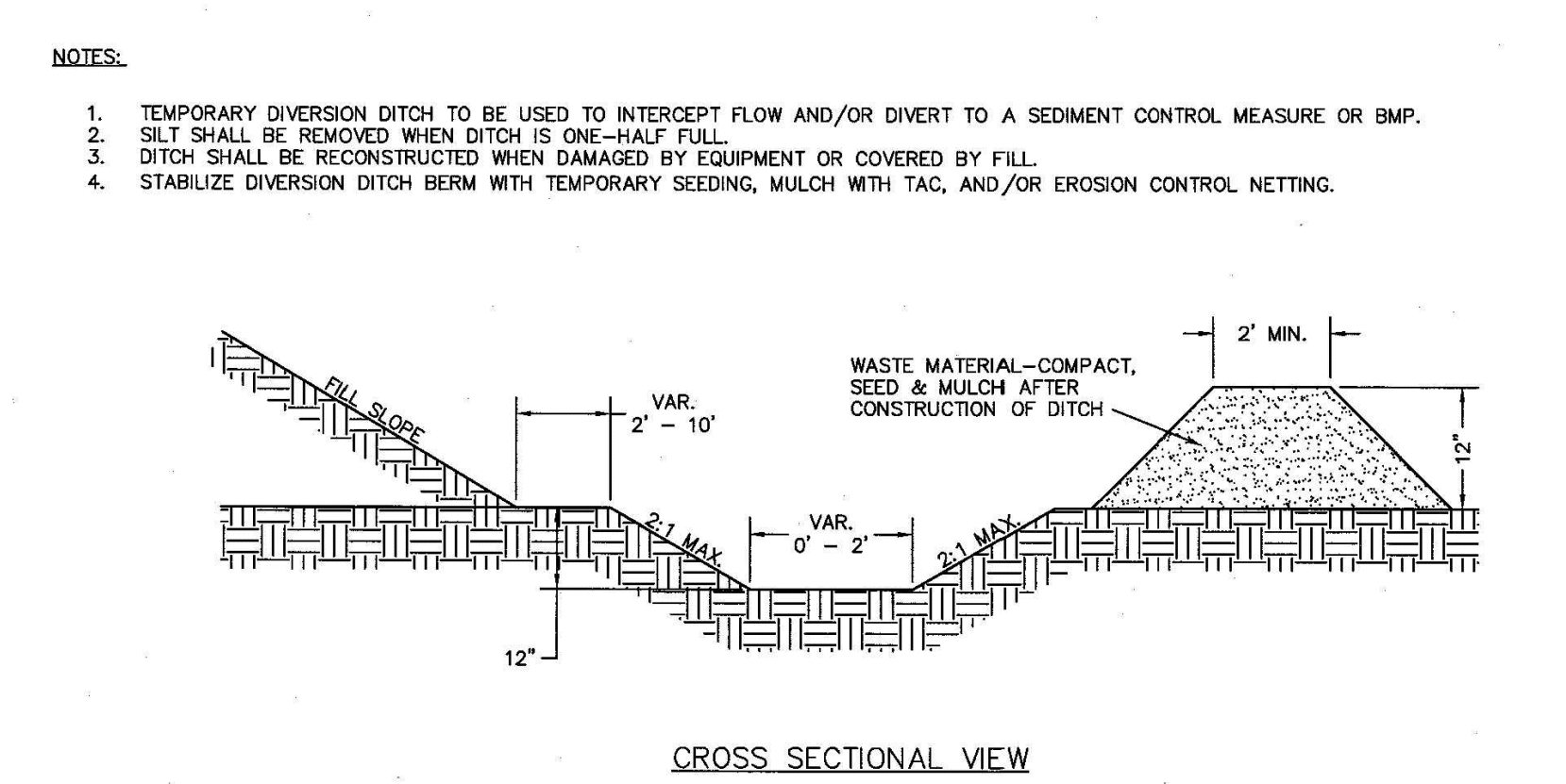


- NOTES:**
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
  2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
  3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.

**STANDARD CONSTRUCTION ENTRANCE**

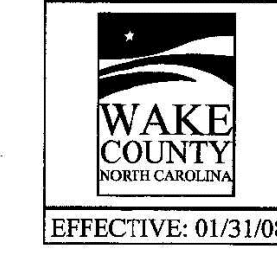


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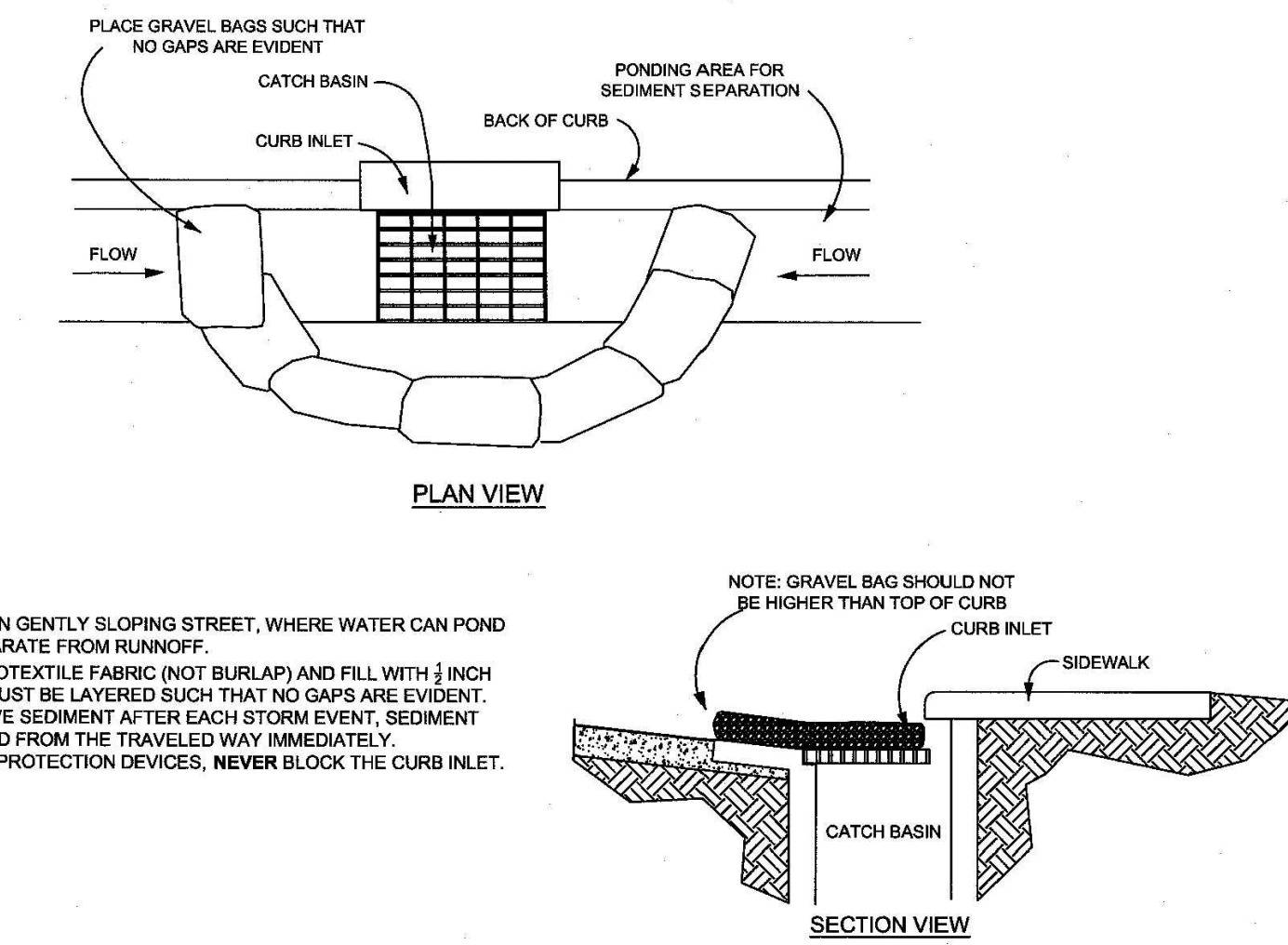


- NOTES:**
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
  2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
  3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
  4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAG, AND/OR EROSION CONTROL NETTING.

**STANDARD TEMPORARY DIVERSION DITCH**

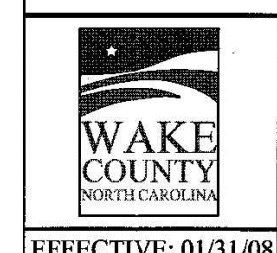


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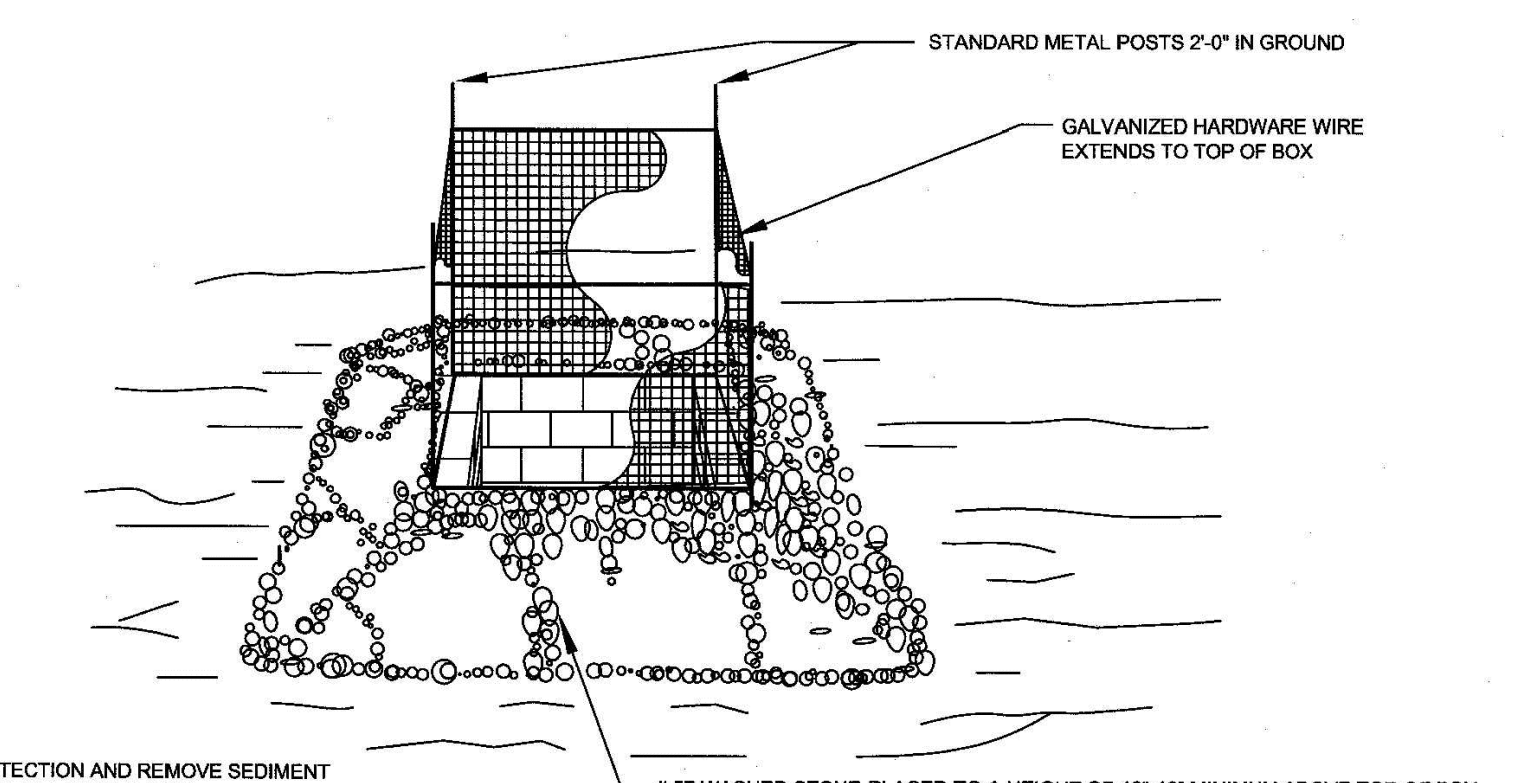


- NOTES:**
1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
  2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) AND FILL WITH 1/2 INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
  3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
  4. WHEN INSTALLING CURB INLET PROTECTION DEVICES, NEVER BLOCK THE CURB INLET.

**STANDARD GRAVEL BAG CURB INLET PROTECTION**

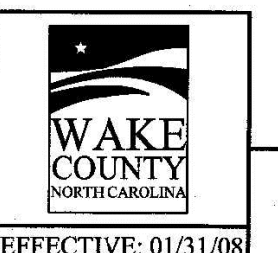


EFFECTIVE: 01/31/08



- NOTE:**
1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

**STANDARD GRAVEL YARD INLET PROTECTION**



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RALEIGH, NORTH CAROLINA 27615  
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PHONE: 919. 239. 9486

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AWH20000-CD-PKG-02-EC4  
CHECKED BY  
DRAWN BY  
SCALE N.T.S.  
DATE 12.02.2024

**EROSION CONTROL DETAILS**  
**C6.20**





McADAMS

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PEARCE FARM - PHASES 1-3  
CONSTRUCTION DRAWINGS - PACKAGE 1

BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



REVISIONS

NO. DATE

PLAN INFORMATION

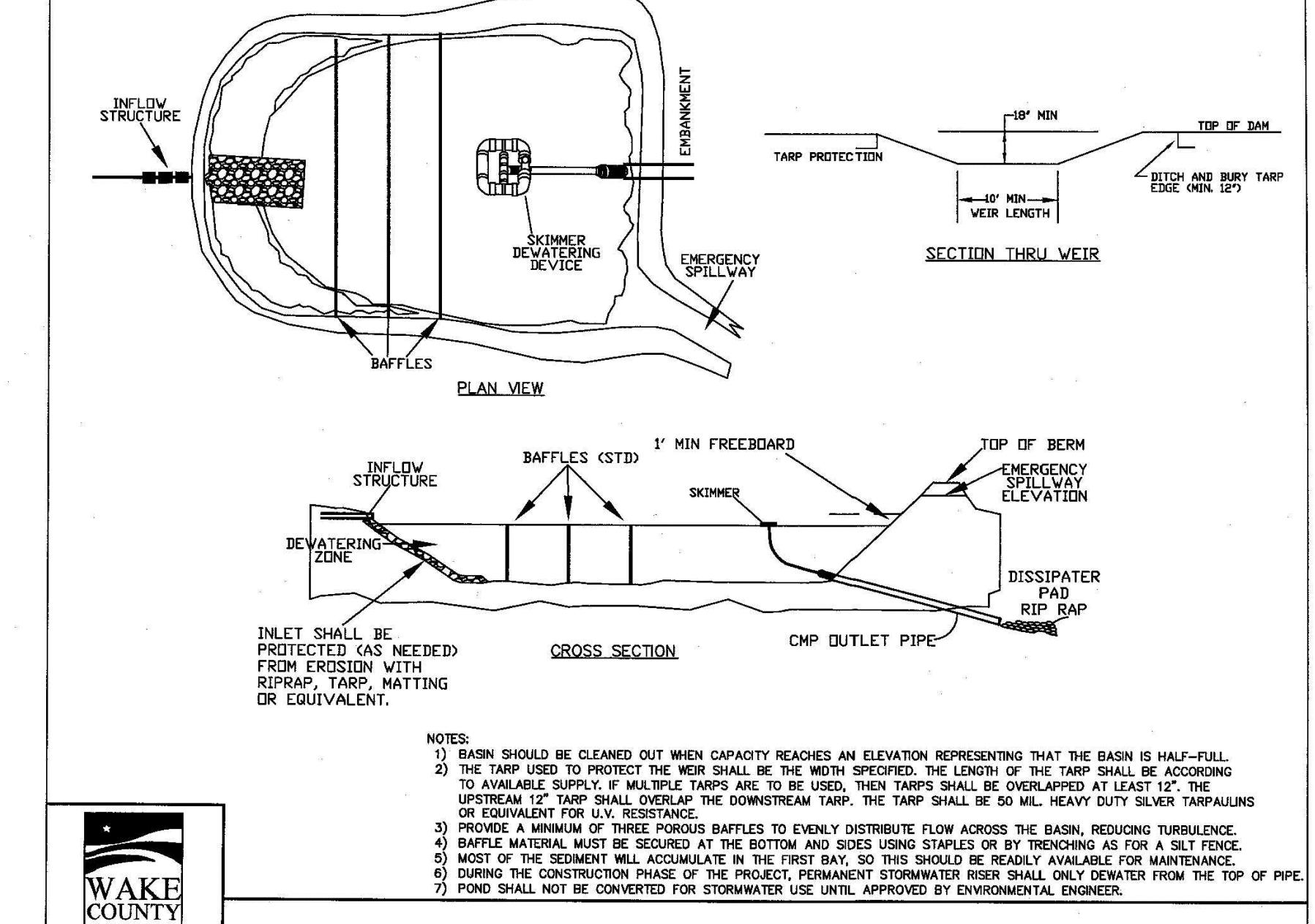
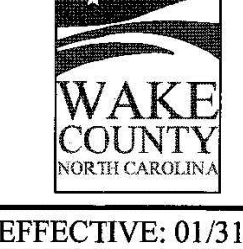
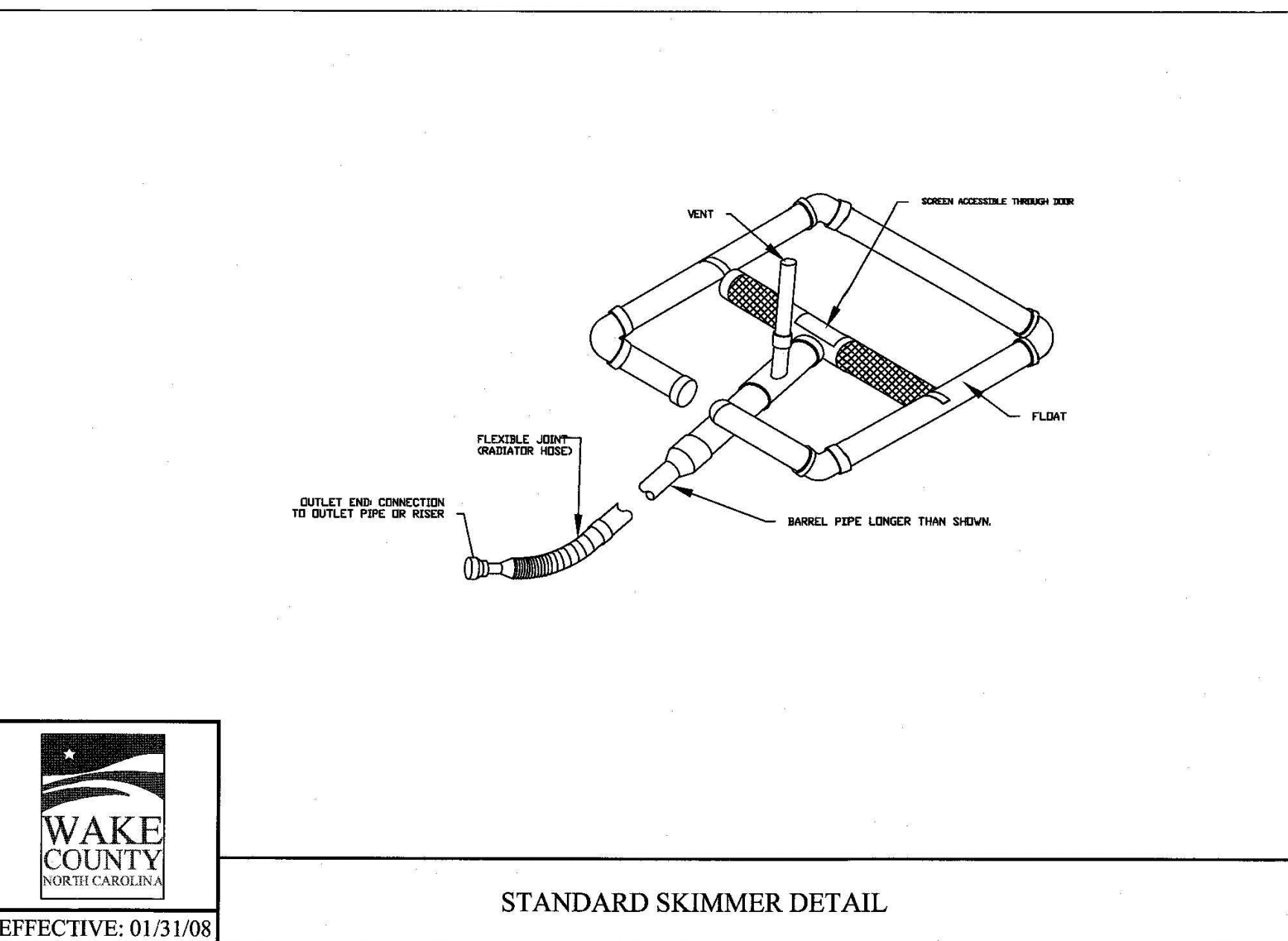
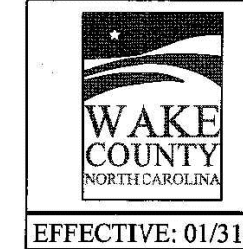
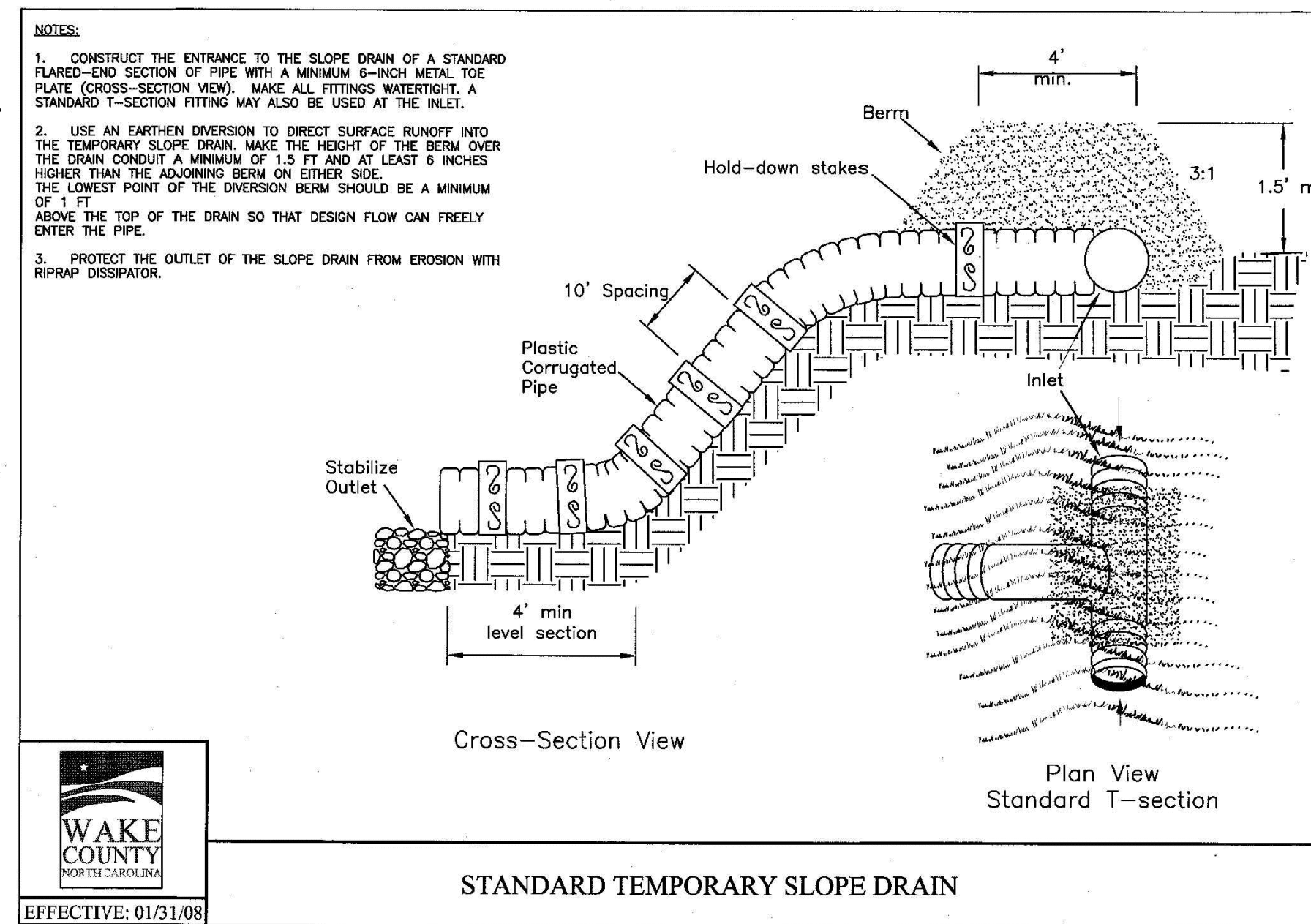
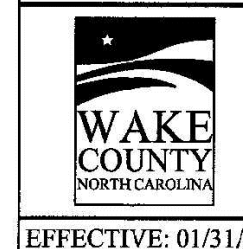
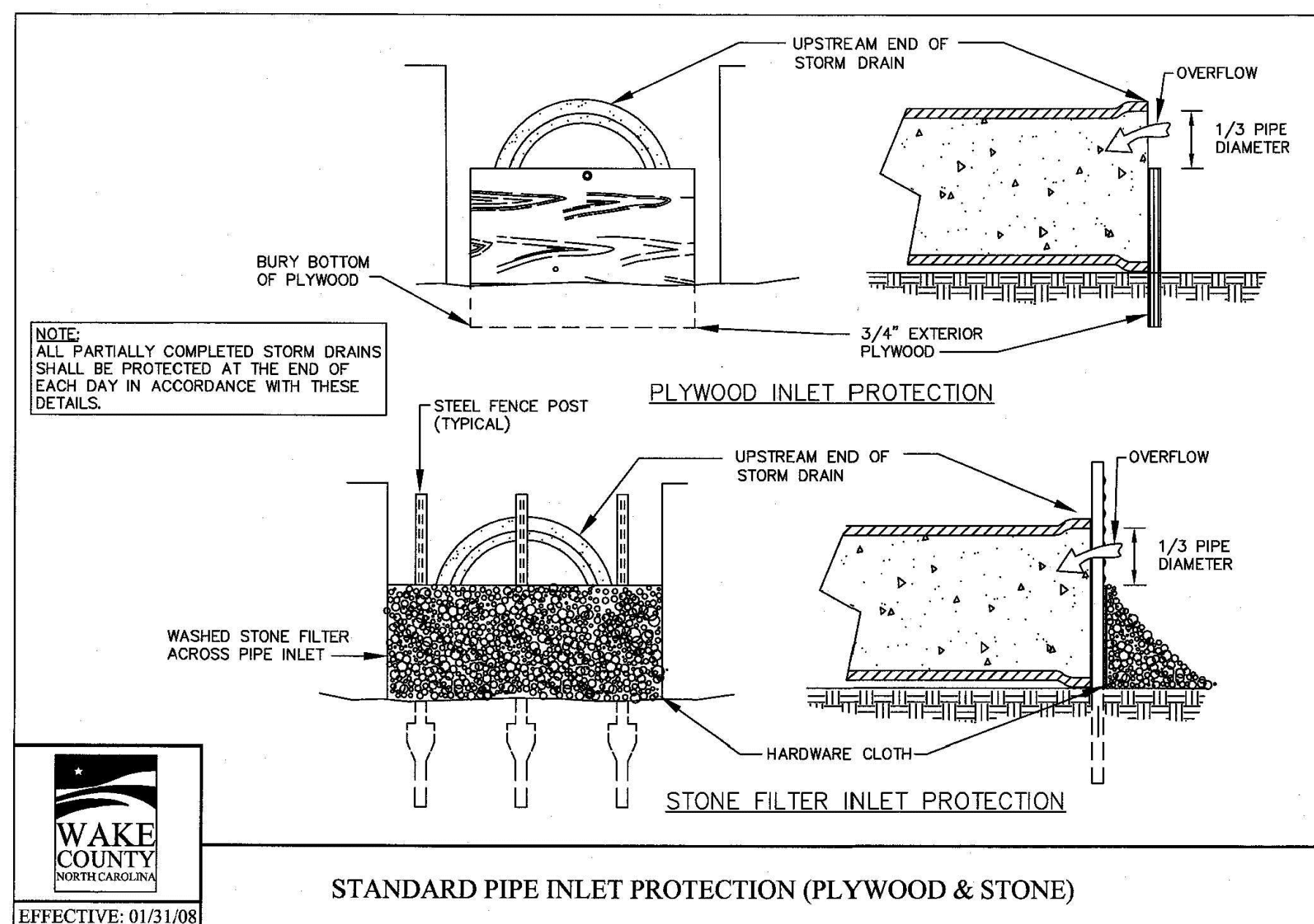
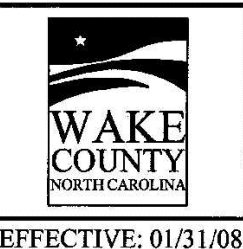
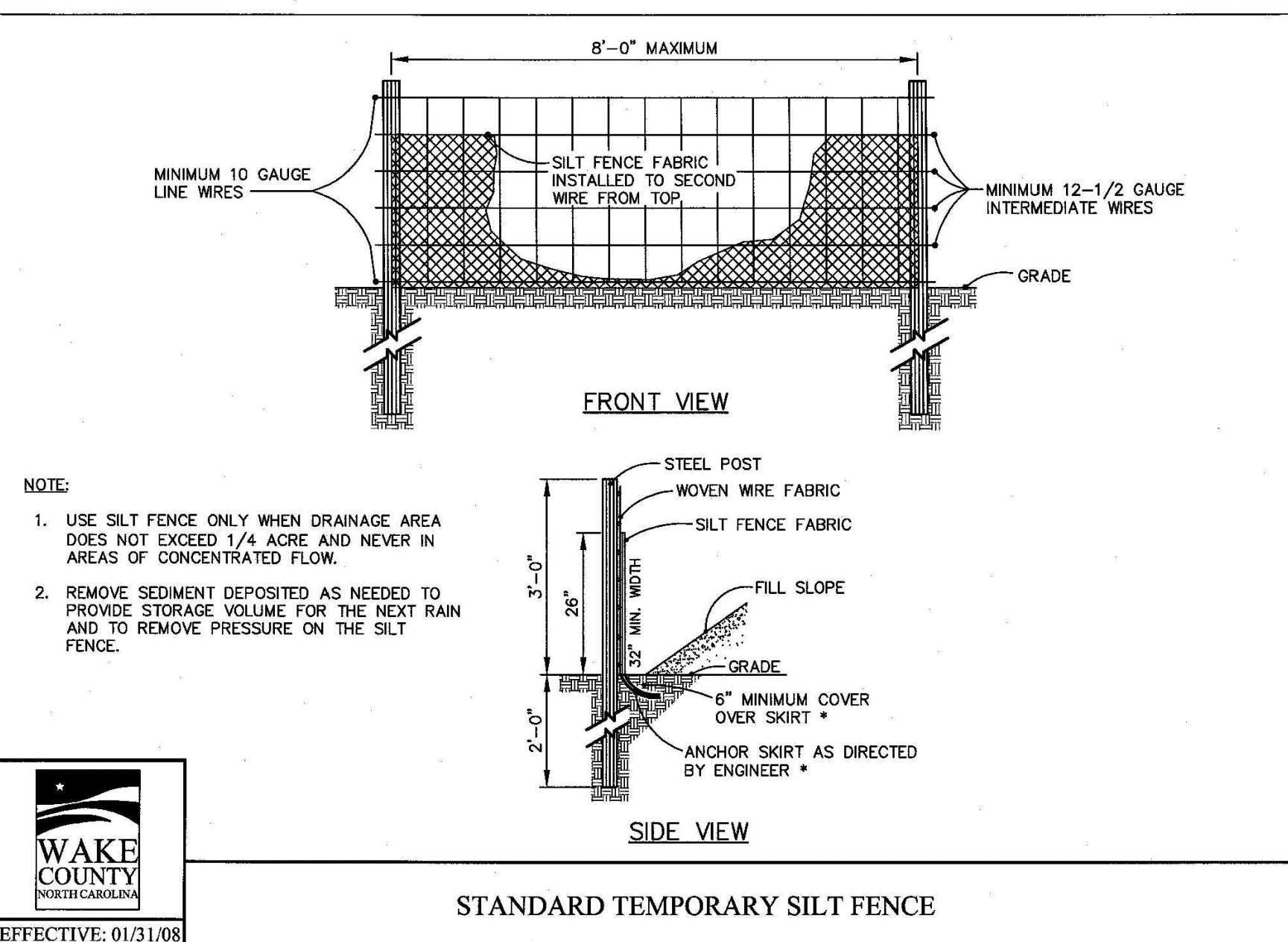
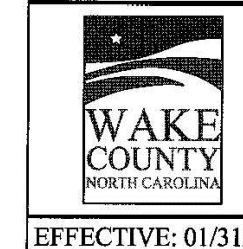
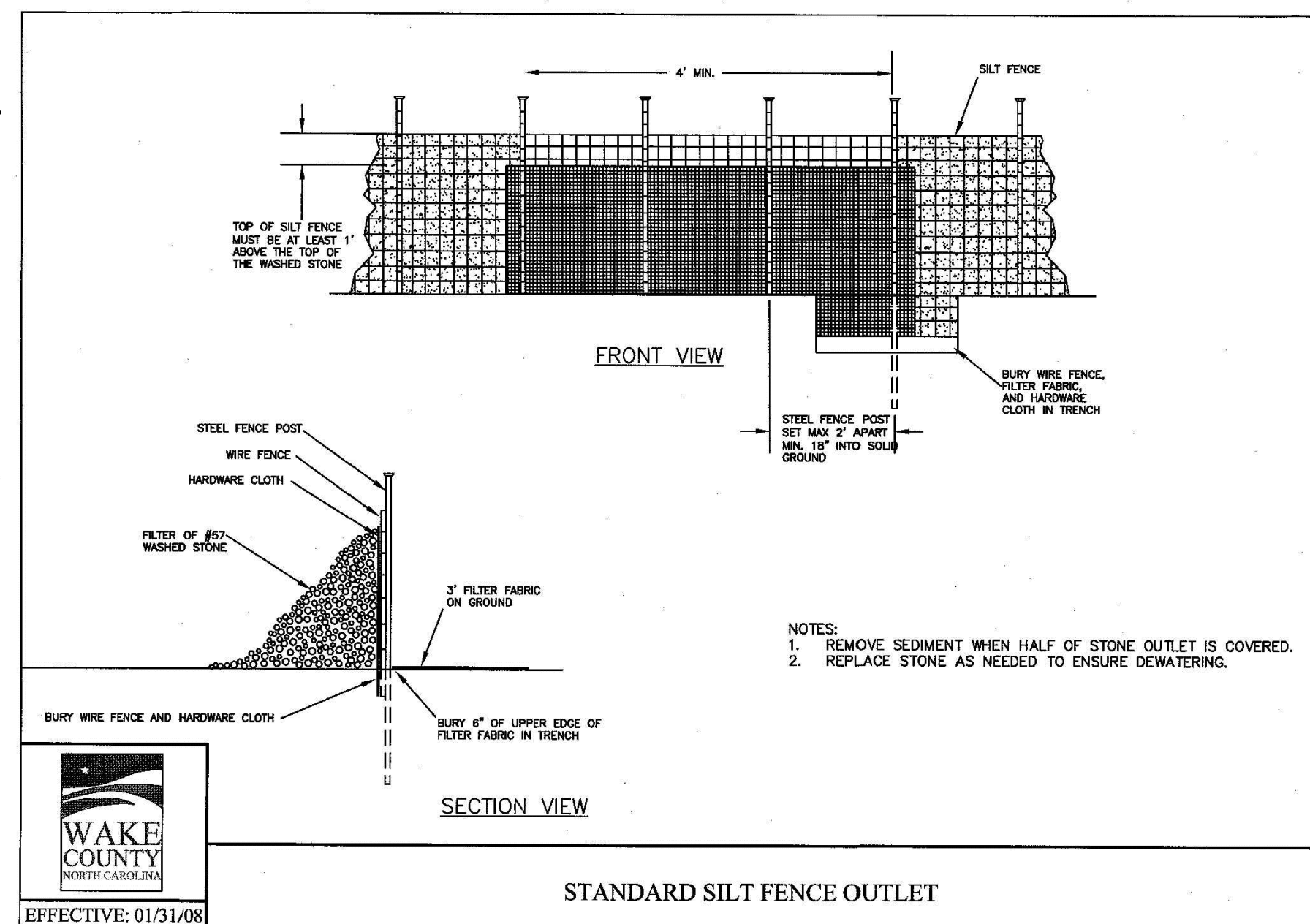
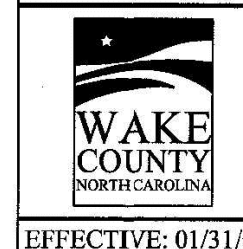
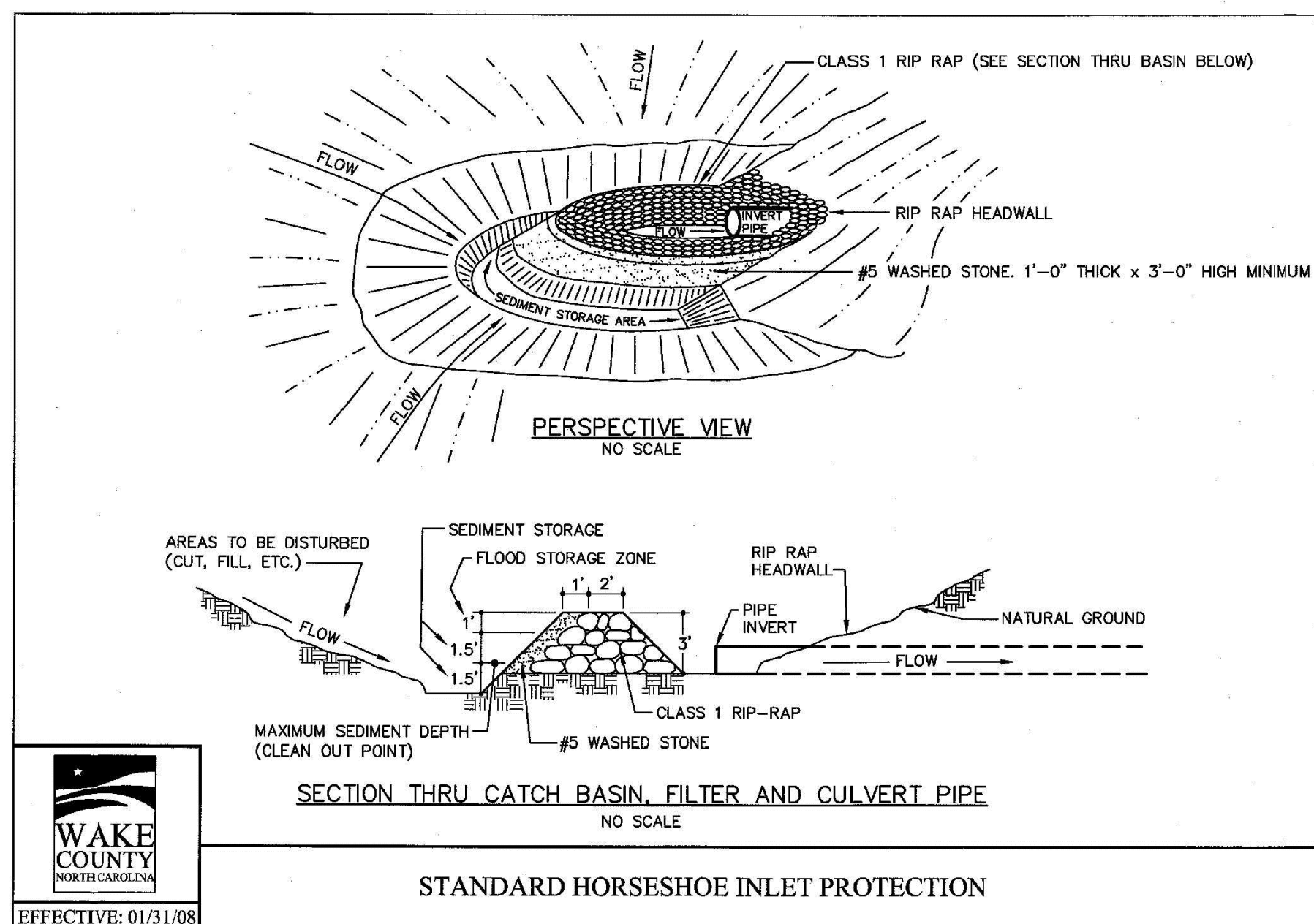
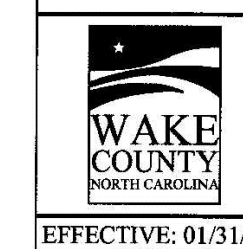
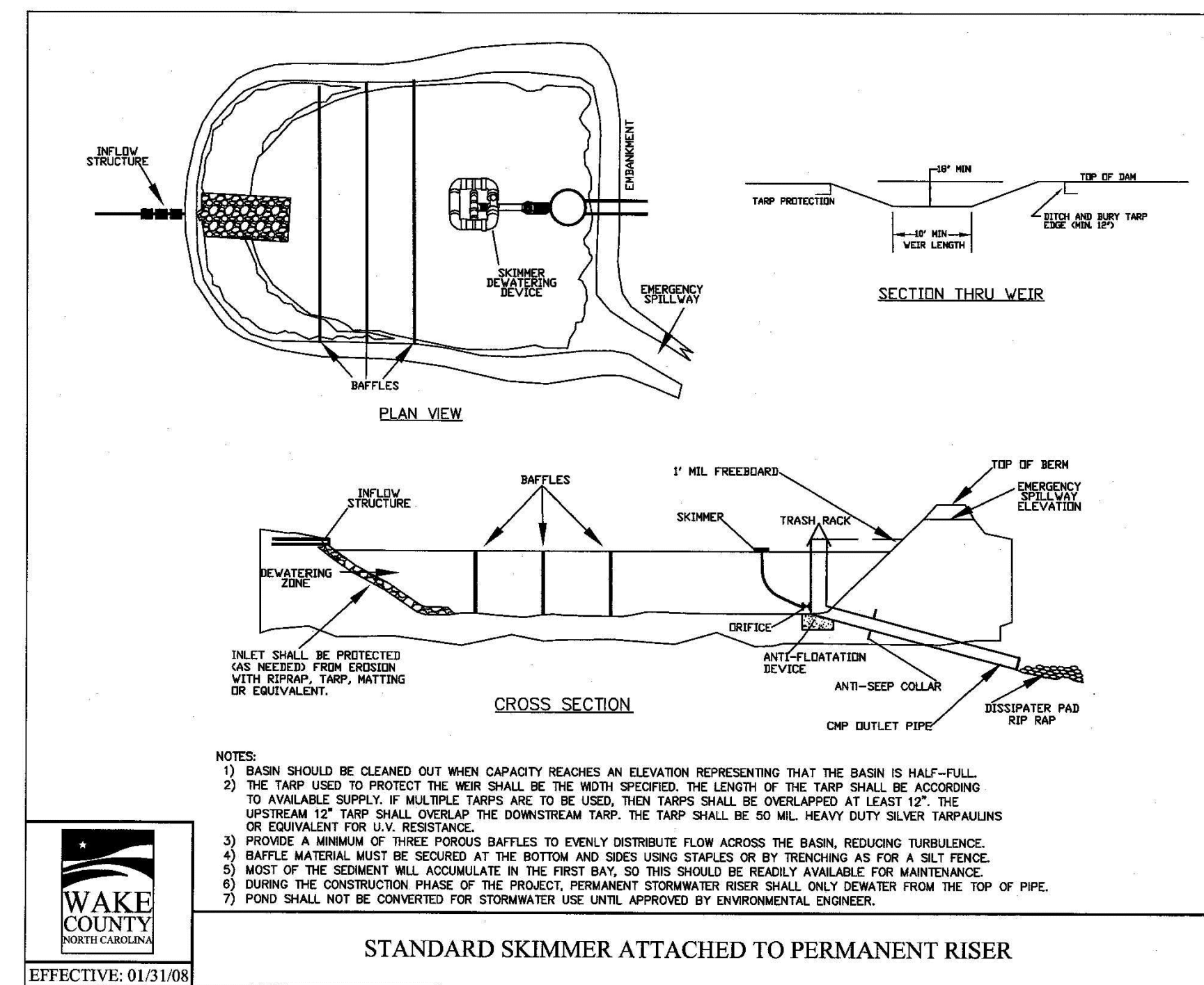
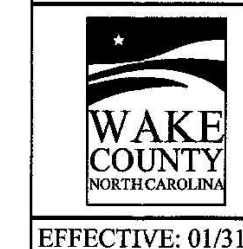
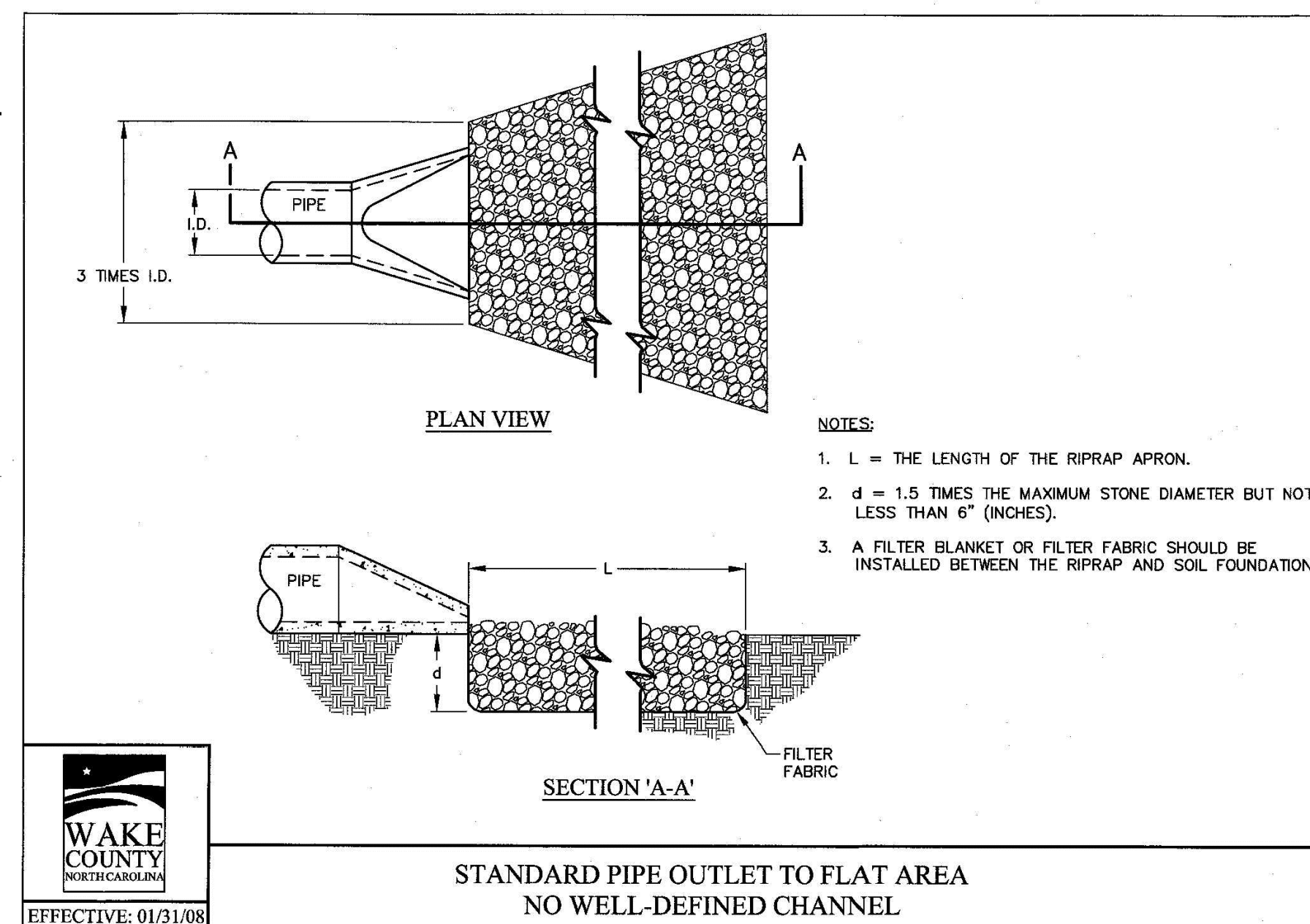
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FILENAME AWH20000-CD-PKG-02-EC4  
CHECKED BY  
DRAWN BY  
SCALE N.T.S.  
DATE 12.02.2024

SHEET

EROSION CONTROL  
DETAILS

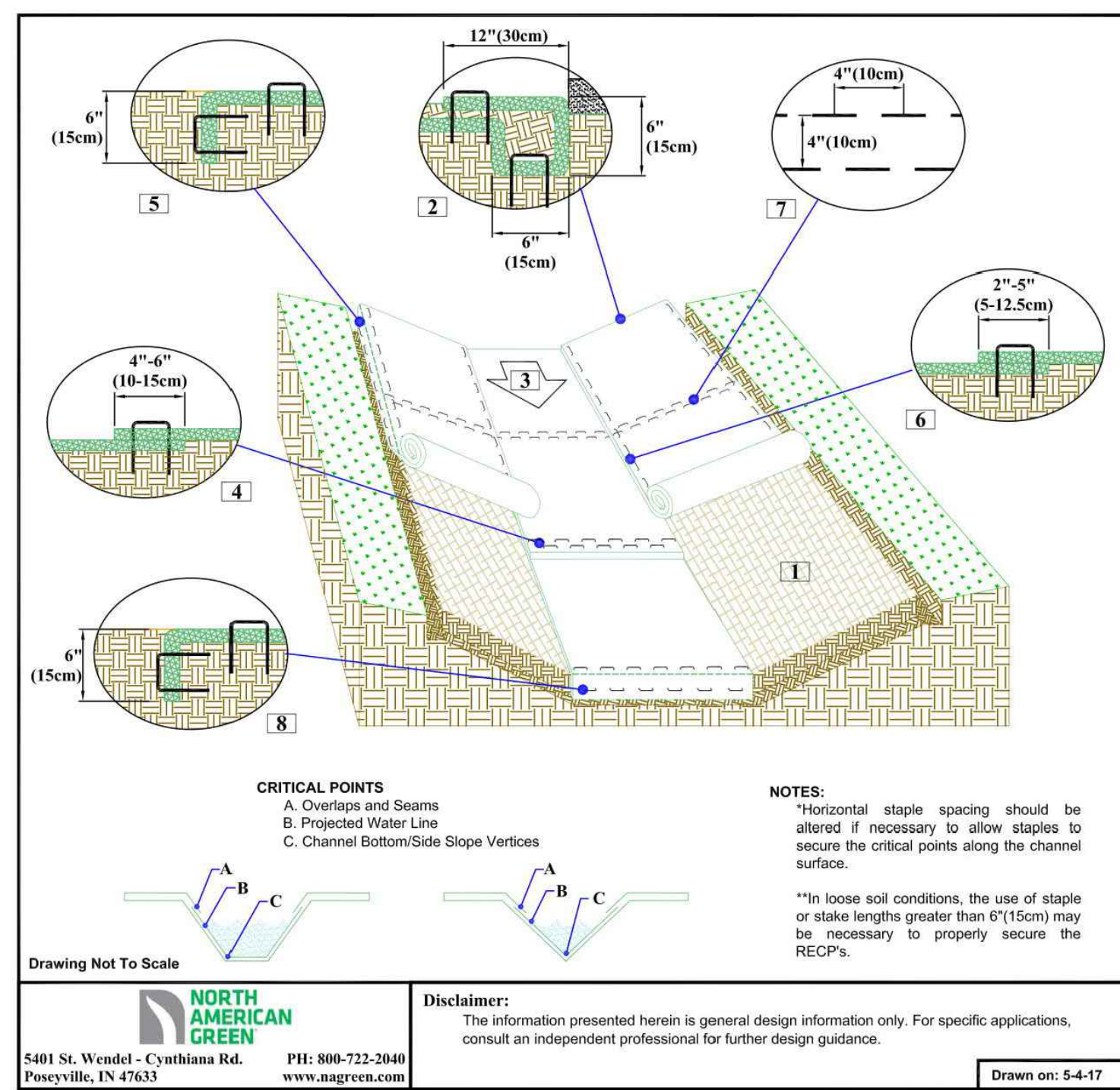
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FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



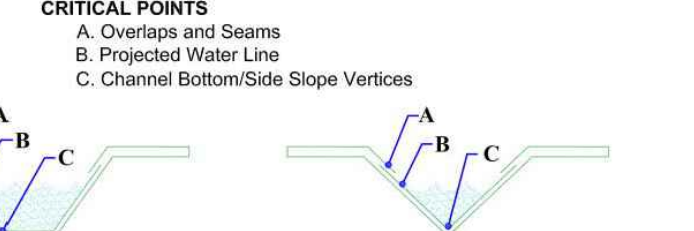
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**CHANNEL INSTALLATION DETAIL**

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6" (15cm) deep X 6" (15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat as the channel outlet until a supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12" (30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (single style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a staple check slot is recommended at 30 to 40 foot (9-12m) intervals. Use a double row of staples staggered 4" (10cm) apart and 4" (10cm) on center over entire width of the channel.
6. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6" (15cm) deep X 6" (15cm) wide trench. Backfill and compact the trench after stapling.



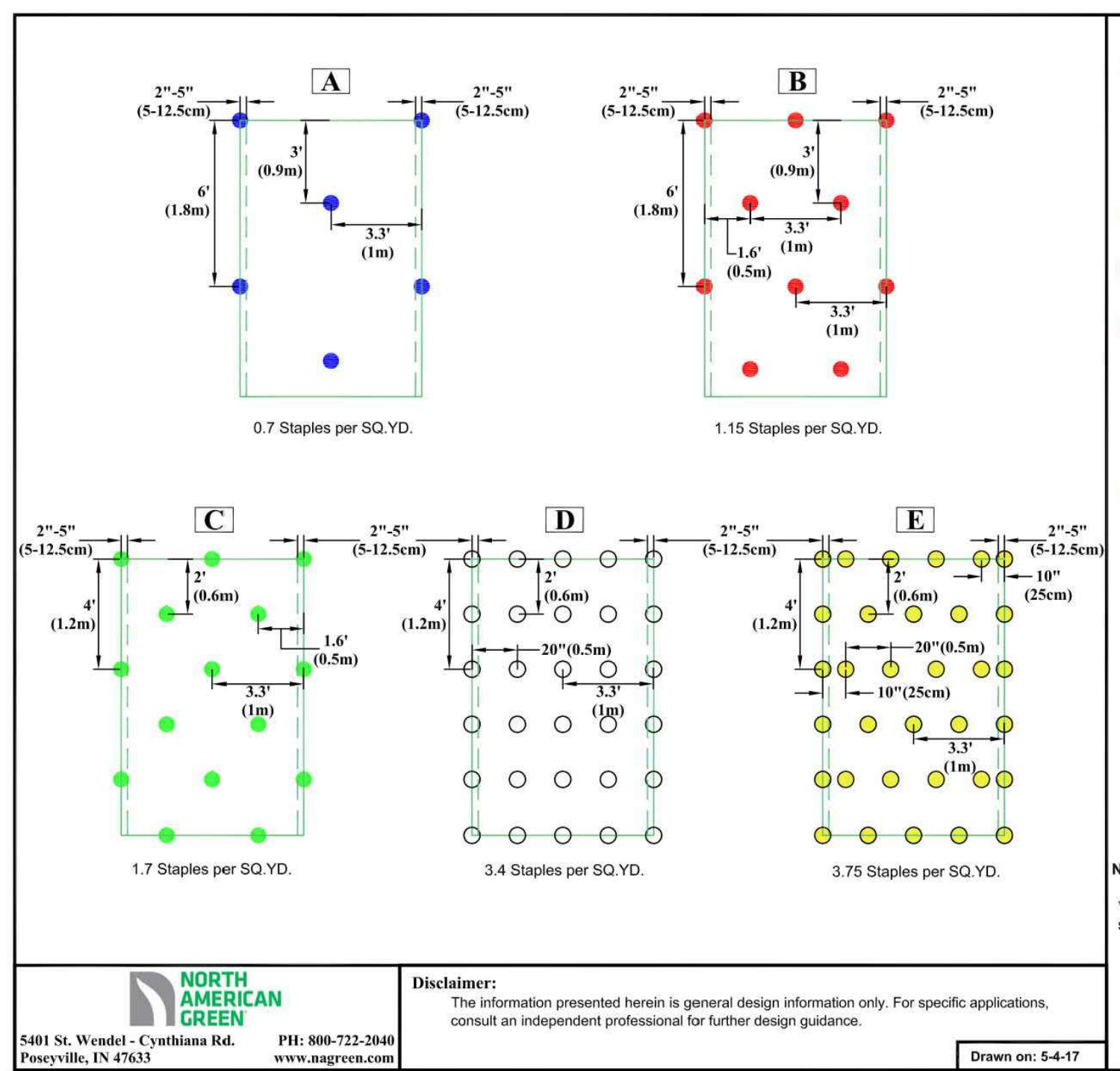
**CRITICAL POINTS**  
 A. Overlaps and Seams  
 B. Projected Water Line  
 C. Channel Bottom/Side Slope Vertices

**NOTES:**  
 \*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.  
 \*In loose soil conditions, the use of staple or stake lengths greater than 6" (15cm) may be necessary to properly secure the RECPs.

**Disclaimers:**  
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**STAPLE PATTERN GUIDE**

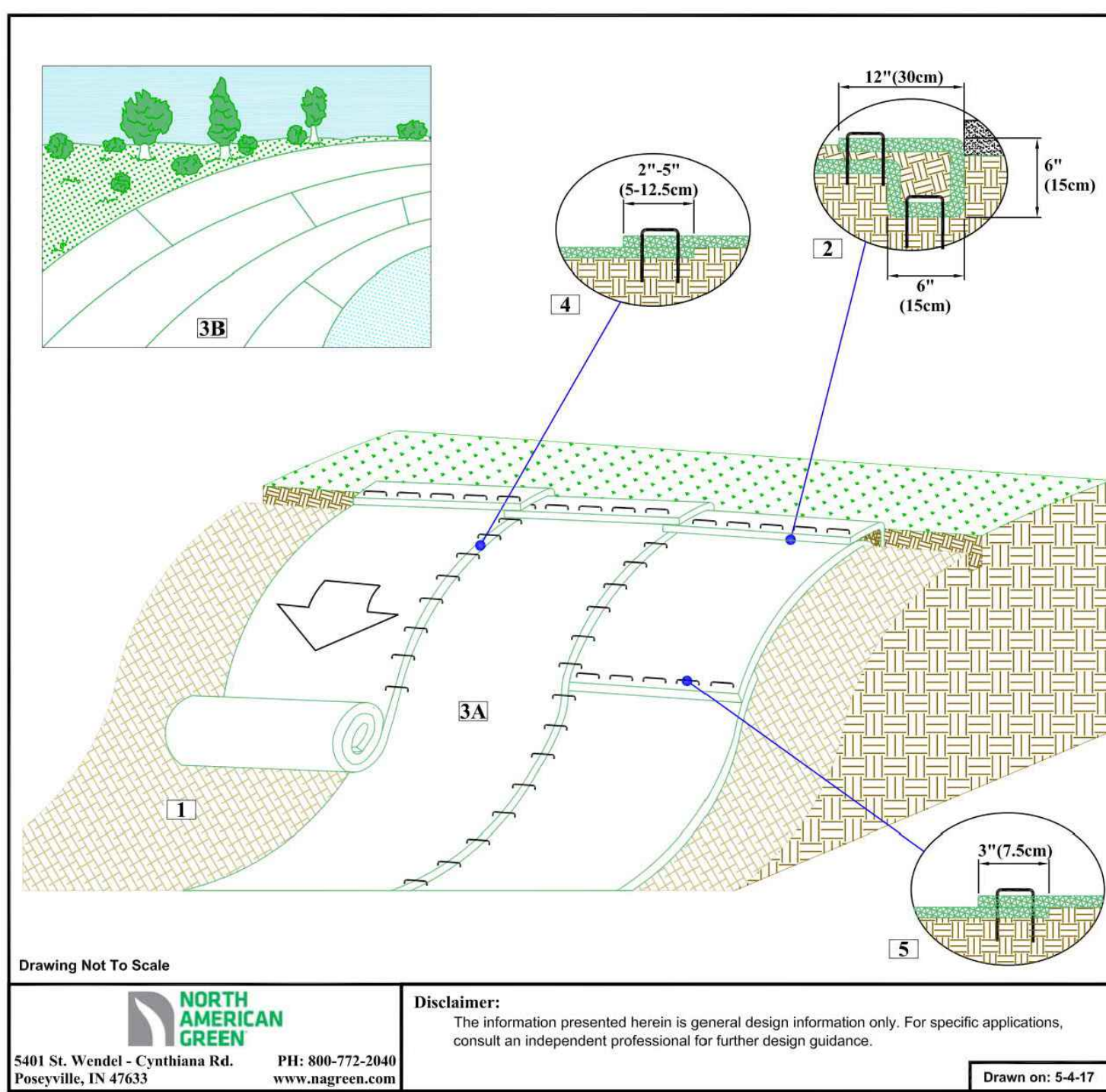
- 4:1 Slopes (A)
- 3:1 Slopes (B)
- 2:1 Slopes (C)
- 1:1 & Steeper Slopes (D)
- High Flow Channel And Shoreline (E)

**NOTES:**  
 \* Use ECMSD<sup>®</sup> for more accurate staple pattern selection.

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**SLOPE INSTALLATION DETAIL**

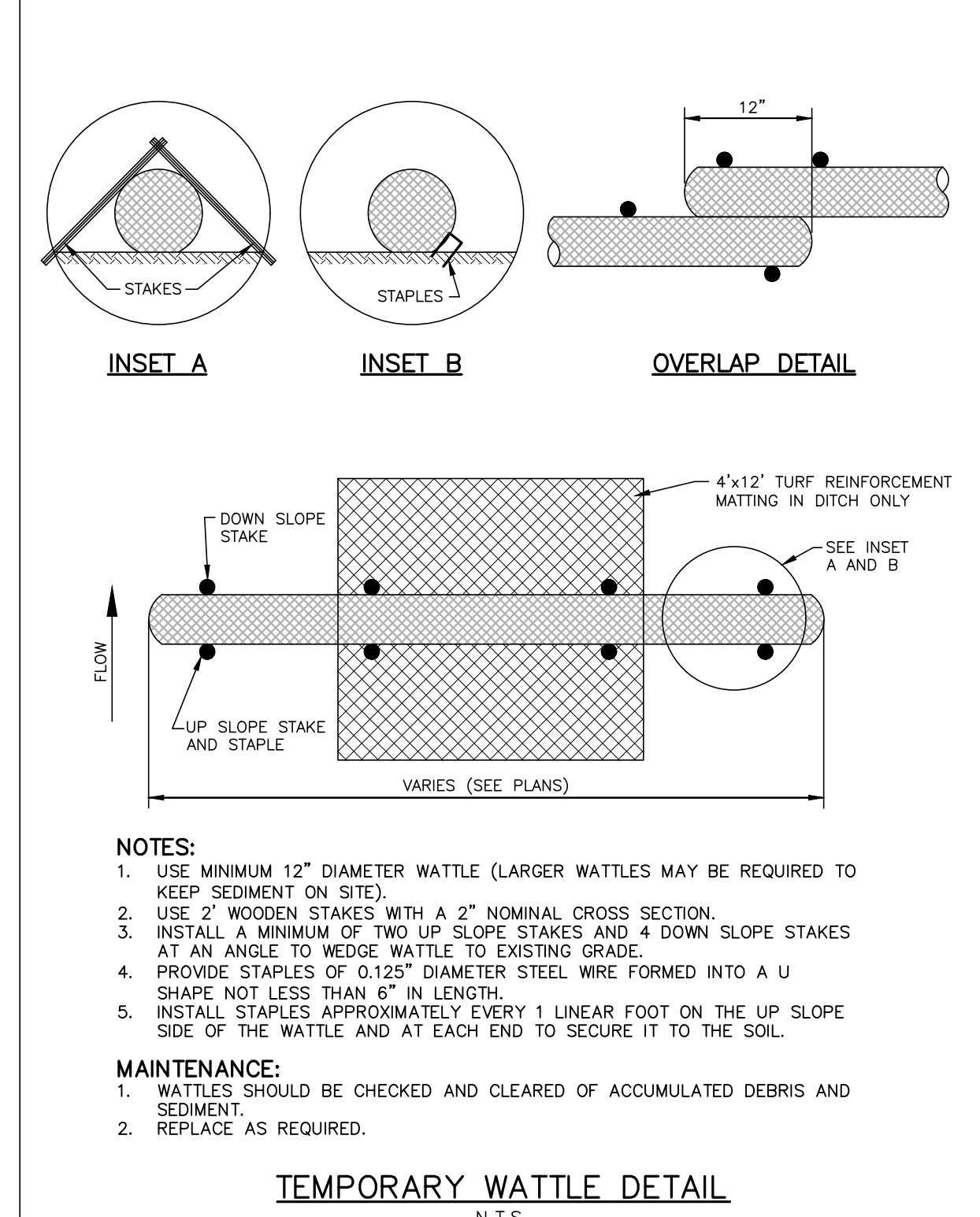
1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the RECPs in a 6" (15cm) deep X 6" (15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat as the channel outlet until a supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12" (30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" (30cm) apart across the width of the RECPs.
3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. The edges of parallel RECPs must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the RECPs type.
5. Consecutive RECPs slip down the slope must be end over end (single style) with an approximate 3" (7.5cm) overlap. Staple through overlapped area, approximately 12" (30cm) apart, across entire RECPs width.

**NOTE:**  
 In loose soil conditions, the use of staple or stake lengths greater than 6" (15cm) may be necessary to properly secure the RECPs.

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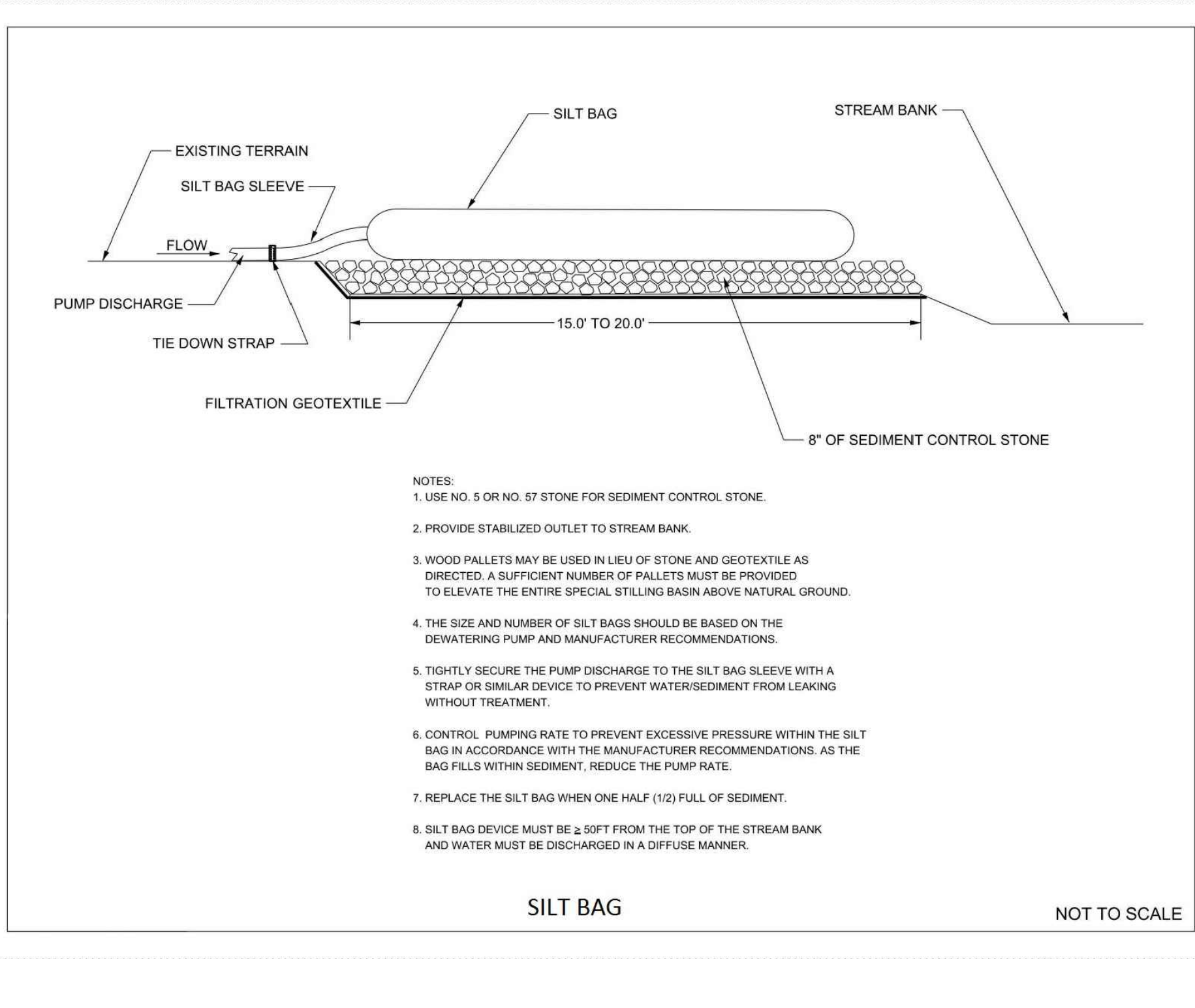
**TEMPORARY WATTLE DETAIL**  
 N.T.S.

- NOTES:**
1. USE MINIMUM 12" DIAMETER WATTLE (LARGER WATTLES MAY BE REQUIRED TO KEEP SEDIMENT ON SITE).
  2. USE 2" WOODEN STAKES WITH A 2" NOMINAL CROSS SECTION.
  3. INSTALL A MINIMUM OF TWO UP SLOPE STAKES AND 4 DOWN SLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO EXISTING GRADE.
  4. PROVIDE STAPLES OF 0.125" DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 6" IN LENGTH.
  5. INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON THE UP SLOPE SIDE OF THE WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- MAINTENANCE:**
1. WATTLES SHOULD BE CHECKED AND CLEARED OF ACCUMULATED DEBRIS AND SEDIMENT.
  2. REPLACE AS REQUIRED.

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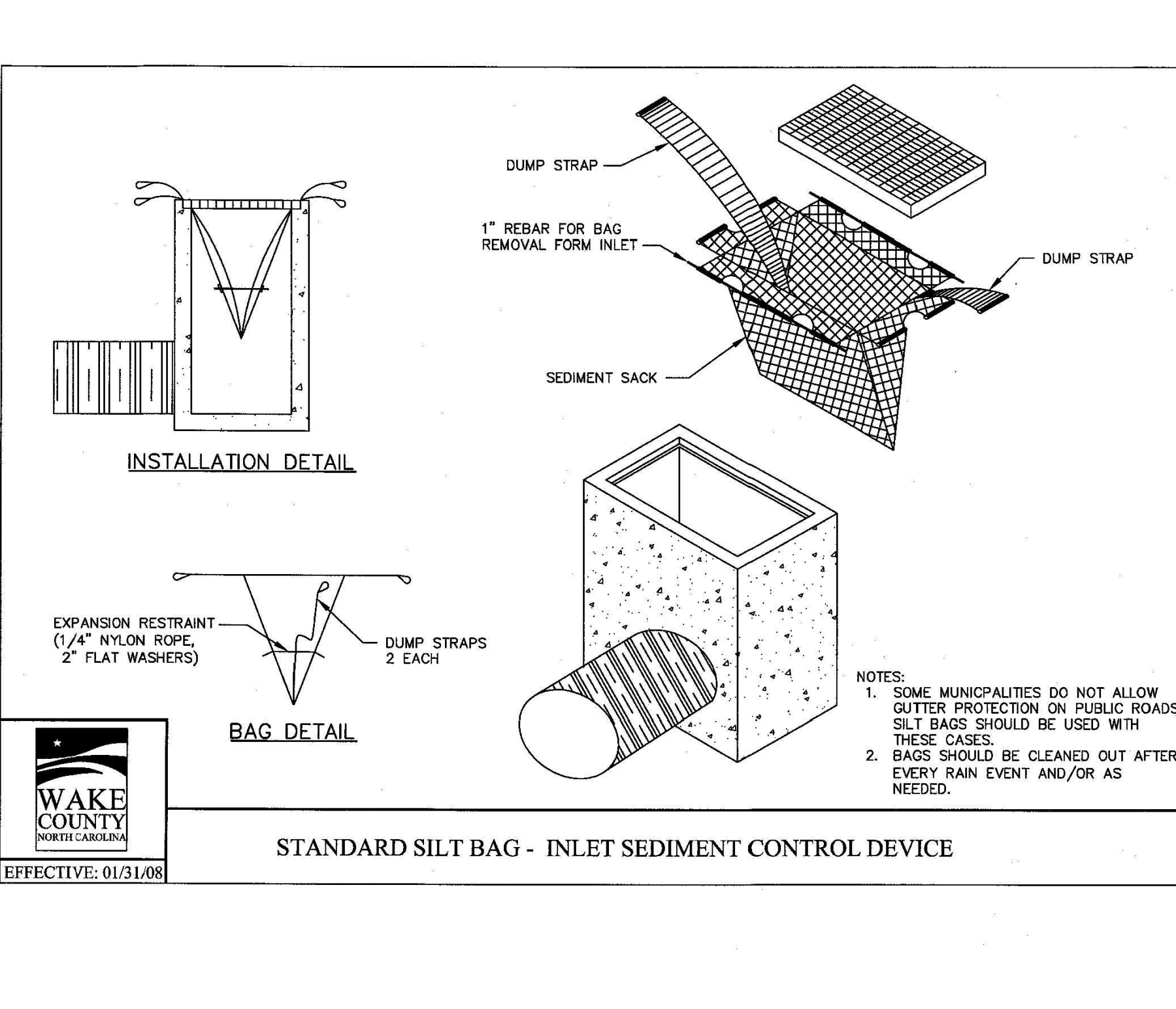
**SILT BAG**  
 NOT TO SCALE

- NOTES:**
1. USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
  2. PROVIDE STABILIZED OUTLET TO STREAM BANK.
  3. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE SPECIAL STILLING BASIN ABOVE NATURAL GROUND.
  4. THE SIZE AND NUMBER OF SILT BAGS SHOULD BE BASED ON THE DEWATERING PUMP AND MANUFACTURER RECOMMENDATIONS.
  5. TIGHTLY SECURE THE PUMP DISCHARGE TO THE SILT BAG SLEEVE WITH A STRAP OR SIMILAR DEVICE TO PREVENT WATER/SEDIMENT FROM LEAKING WITHOUT TREATMENT.
  6. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE SILT BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITHIN SEDIMENT, REDUCE THE PUMP RATE.
  7. REPLACE THE SILT BAG WHEN ONE HALF (1/2) FULL OF SEDIMENT.
  8. SILT BAG DEVICE MUST BE 2.0FT FROM THE TOP OF THE STREAM BANK AND WATER MUST BE DISCHARGED IN A DIFFUSE MANNER.

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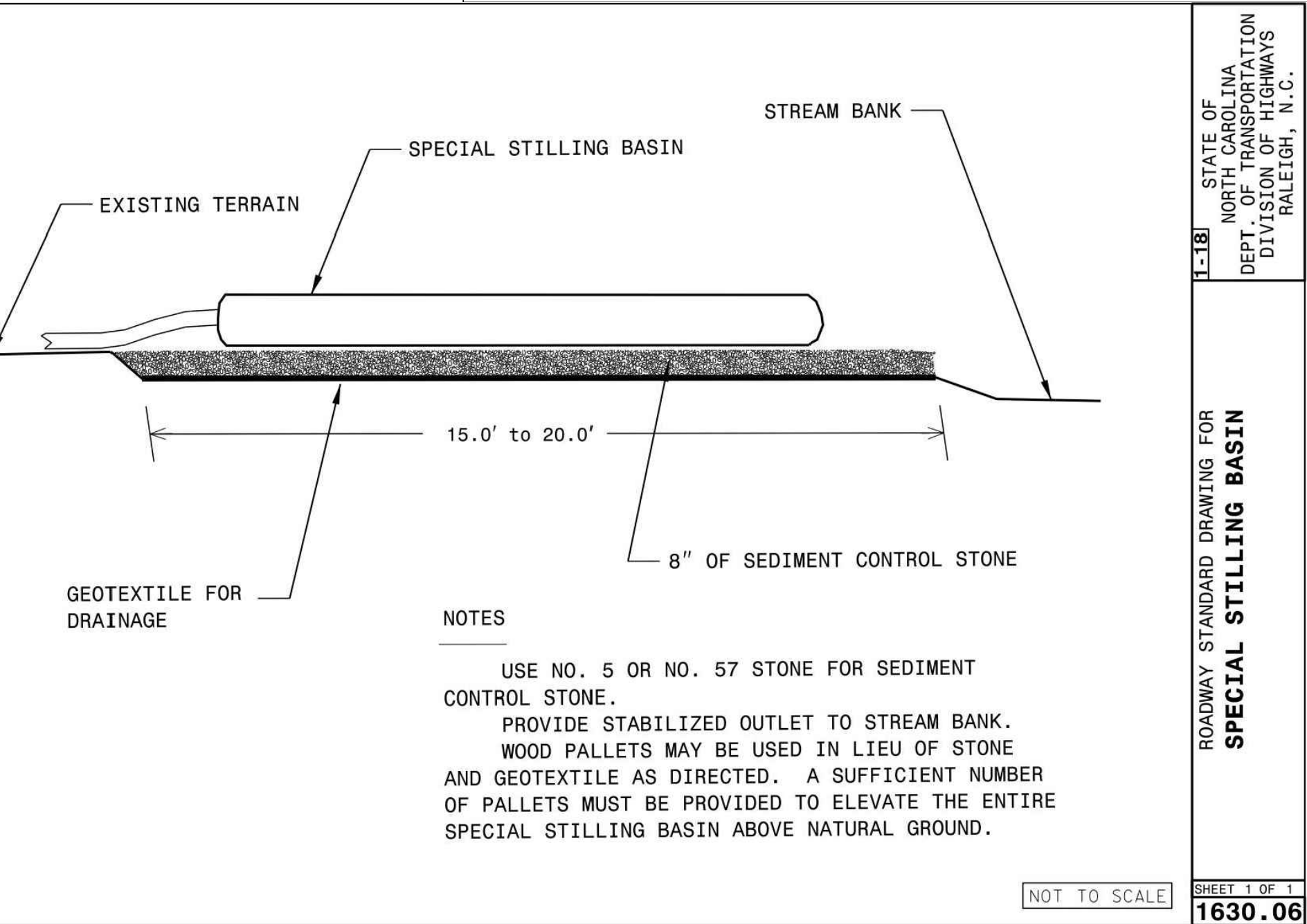
**STANDARD SILT BAG - INLET SEDIMENT CONTROL DEVICE**  
 NOT TO SCALE

- NOTES:**
1. SOME MUNICIPALITIES DO NOT ALLOW GUTTER PROTECTION ON PUBLIC ROADS. SILT BAGS SHOULD BE USED WITH THESE CASES.
  2. BAGS SHOULD BE CLEANED OUT AFTER EVERY RAIN EVENT AND/OR AS NEEDED.

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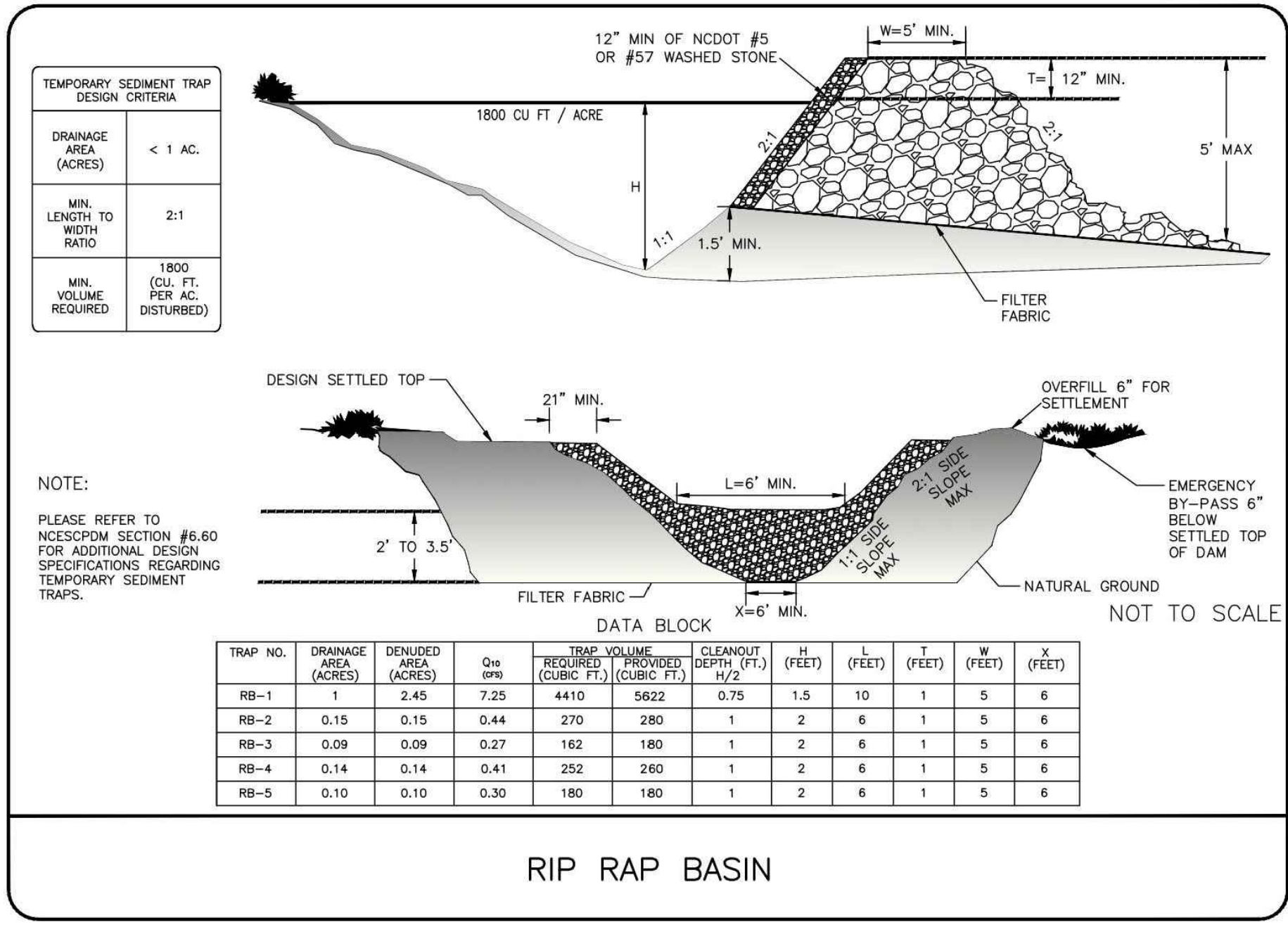
**SPECIAL STILLING BASIN**  
 NOT TO SCALE

- NOTES:**
1. USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
  2. PROVIDE STABILIZED OUTLET TO STREAM BANK. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE SPECIAL STILLING BASIN ABOVE NATURAL GROUND.

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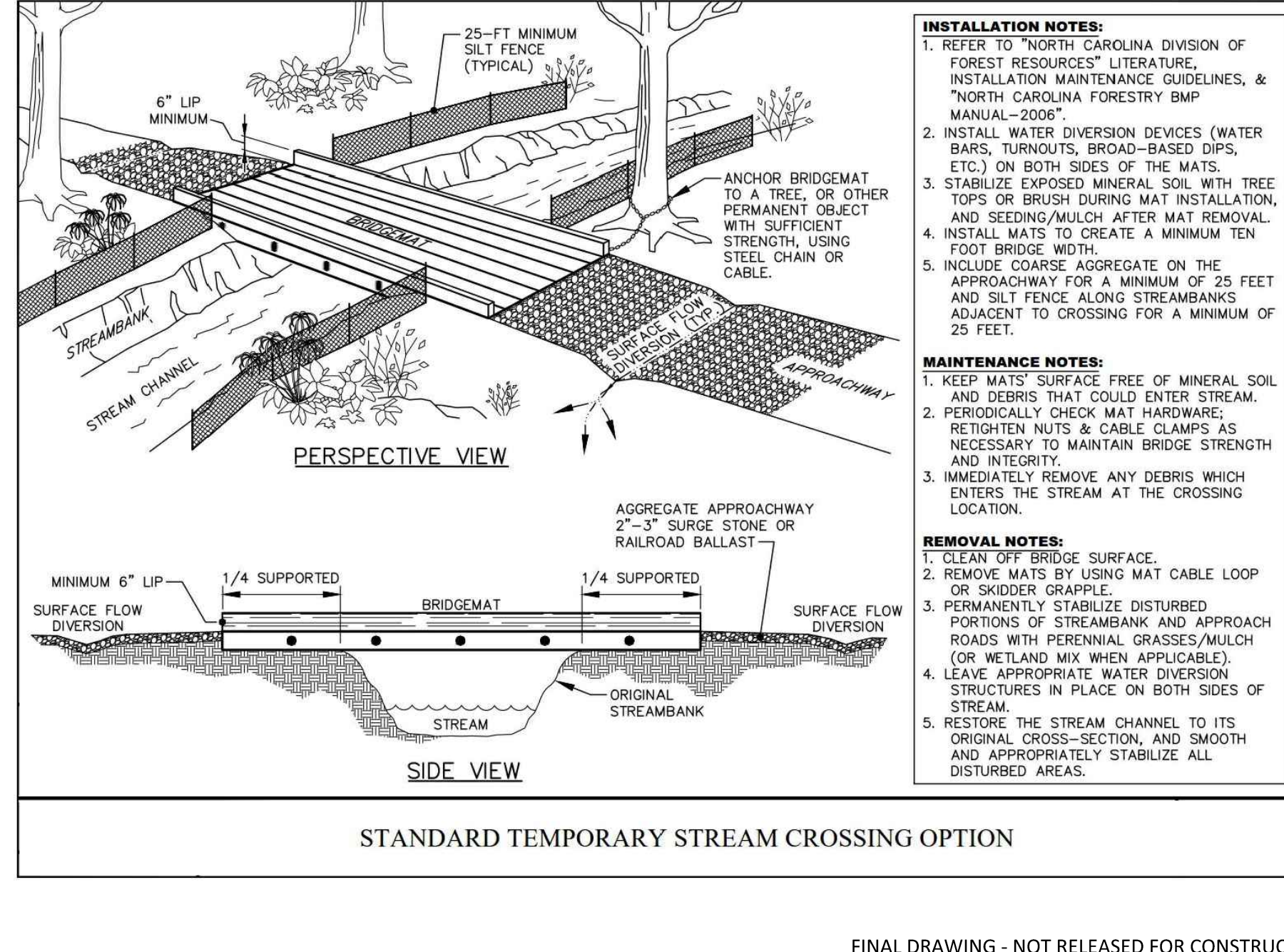
**RIP RAP BASIN**  
 NOT TO SCALE

| TRAP NO. | DRAINAGE AREA (ACRES) | DELTA Q (CFS) | Q <sub>10</sub> (CFS) | TRAP VOLUME (CU FT) | REQUIRED DEPTH (FT) | DEPTH (FT) | W (FEET) | L (FEET) | X (FEET) |
|----------|-----------------------|---------------|-----------------------|---------------------|---------------------|------------|----------|----------|----------|
| RB-1     | 1                     | 2.45          | 7.25                  | 4410                | 0.75                | 1.5        | 10       | 1        | 5        |
| RB-2     | 0.15                  | 0.15          | 0.44                  | 270                 | 280                 | 1          | 2        | 6        | 1        |
| RB-3     | 0.09                  | 0.09          | 0.27                  | 162                 | 180                 | 1          | 2        | 6        | 1        |
| RB-4     | 0.14                  | 0.14          | 0.41                  | 252                 | 260                 | 1          | 2        | 6        | 1        |
| RB-5     | 0.10                  | 0.10          | 0.30                  | 180                 | 180                 | 1          | 2        | 6        | 1        |

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**STANDARD TEMPORARY STREAM CROSSING OPTION**  
 NOT TO SCALE

- INSTALLATION NOTES:**
1. REFER TO "NORTH CAROLINA DIVISION OF FOREST RESOURCES" LITERATURE, "INSTALLATION MAINTENANCE GUIDELINES, & "NORTH CAROLINA FORESTRY BMP MANUAL-2006".
  2. INSTALL WATER DIVERSION DEVICES (WATER BARS, TURNOUTS, BROAD-BASED DIPS, ETC.) ON BOTH SIDES OF THE MATS.
  3. STABILIZE EXPOSED MINERAL SOIL WITH TREE TOPS OR BRUSH DURING MAT INSTALLATION, AND SEEDING/MULCH AFTER MAT REMOVAL.
  4. INSTALL MATS TO CREATE A MINIMUM TEN FOOT BRIDGE WIDTH.
  5. INCLUDE COARSE AGGREGATE ON THE APPROACHWAY FOR A MINIMUM OF 25 FEET AND SILT FENCE ALONG STREAMBANKS ADJACENT TO CROSSING FOR A MINIMUM OF 25 FEET.
- MAINTENANCE NOTES:**
1. KEEP MATS' SURFACE FREE OF MINERAL SOIL AND DEBRIS THAT COULD ENTER STREAM.
  2. PERIODICALLY CHECK MAT HARDWARE. RETIGHTEN NUTS & CABLE CLAMPS AS NECESSARY TO MAINTAIN BRIDGE STRENGTH AND INTEGRITY.
  3. IMMEDIATELY REMOVE ANY DEBRIS WHICH ENTERS THE STREAM AT THE CROSSING LOCATION.
- REMOVAL NOTES:**
1. CLEAN OFF BRIDGE SURFACE.
  2. REMOVE MATS BY USING MAT CABLE LOOP OR SKIDDER GRAPPLE.
  3. PERMANENTLY STABILIZE DISTURBED PORTIONS OF STREAMBANK AND APPROACH ROADS WITH PERENNIAL GRASSES/MULCH (OR WETLAND MIX WHEN APPLICABLE).
  4. LEAVE APPROPRIATE WATER DIVERSION STRUCTURES IN PLACE ON BOTH SIDES OF STREAM.
  5. RESTORE THE STREAM CHANNEL TO ITS ORIGINAL CROSS-SECTION, AND SMOOTH AND APPROPRIATELY STABILIZE ALL DISTURBED AREAS.

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 The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

**North American Green**  
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 PH: 800-722-2040  
 www.nagreen.com

Drawn on: 5-4-17

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 CONTACT: JACOB ANDERSON  
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**AGNC**  
 BROKERAGE | CONSULTING | PLANNING

**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

**WAKE COUNTY**  
 NORTH CAROLINA  
 EFFECTIVE: 01/31/08

**PROFESSIONAL SEAL**  
 WILLIAM O'DONNELL  
 22630

**REVISIONS**

| NO. | DATE |
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**PLAN INFORMATION**

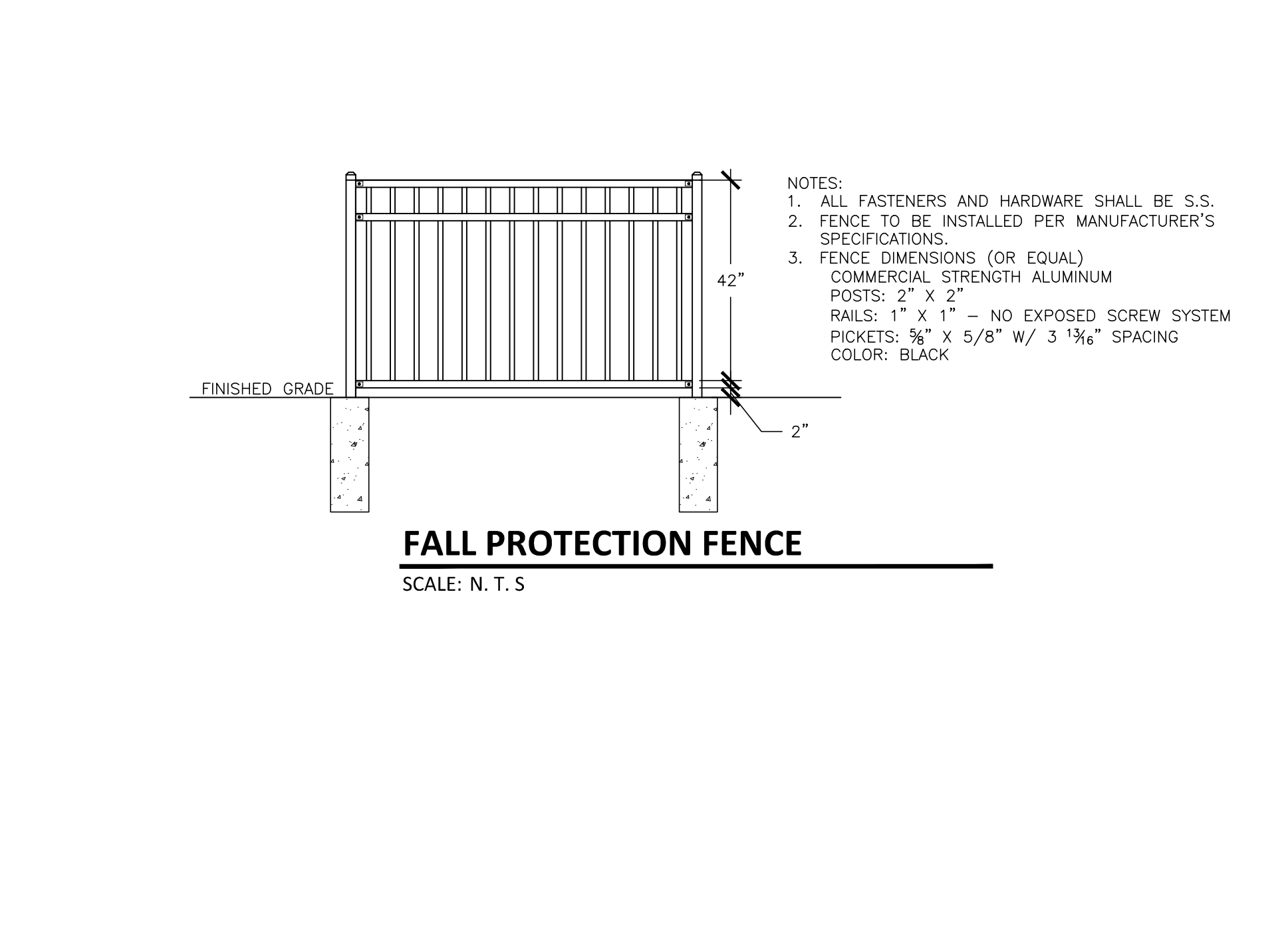
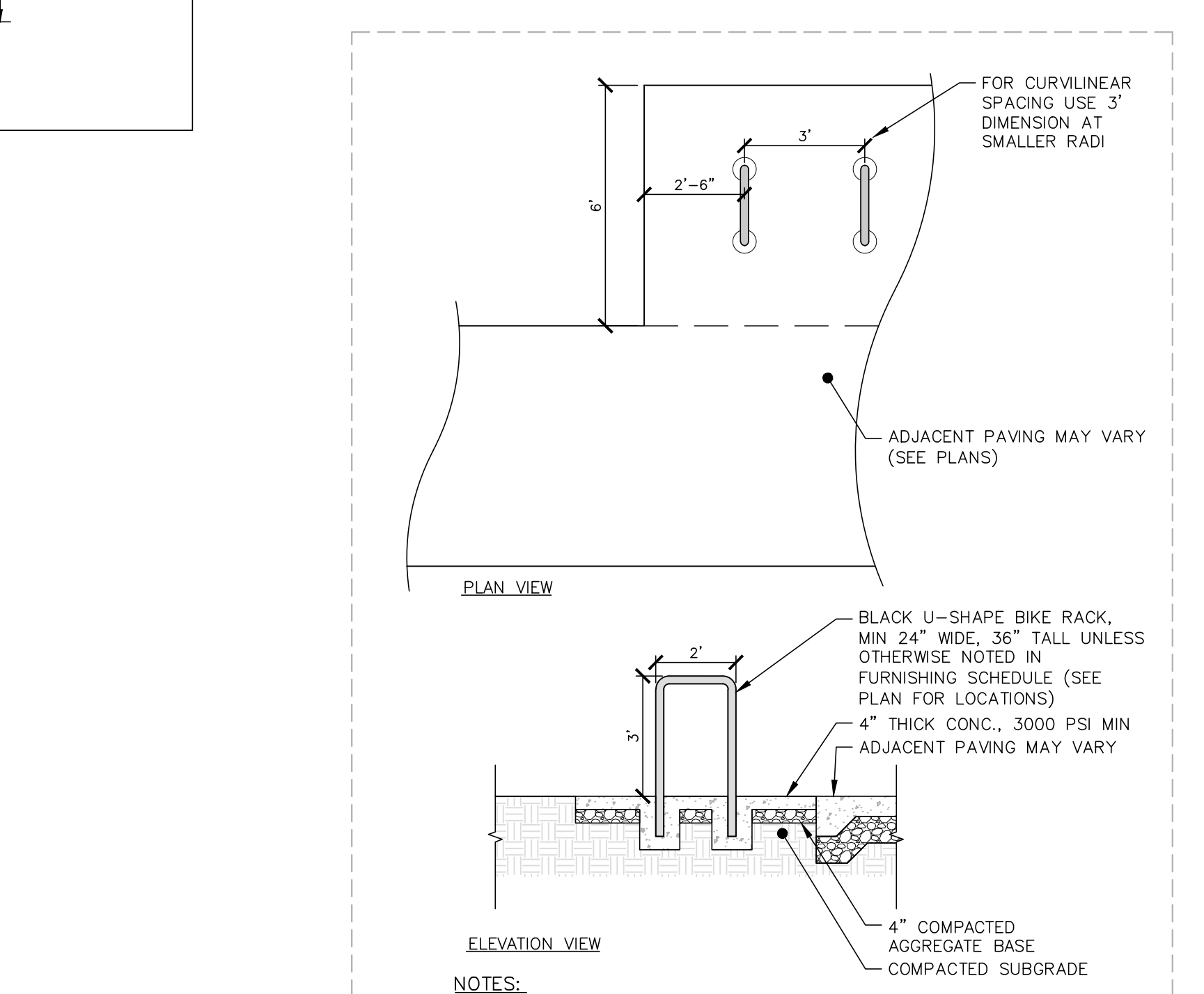
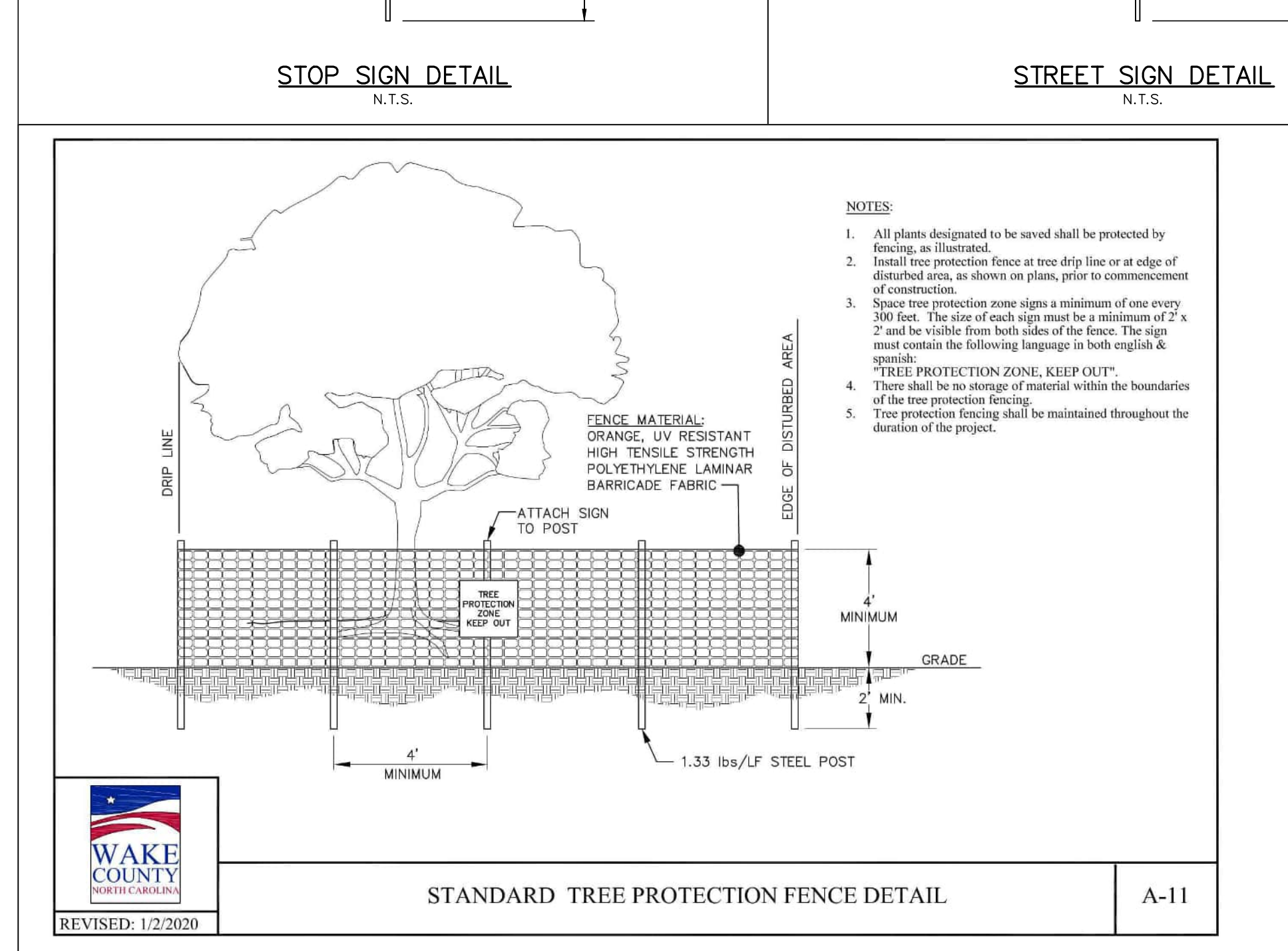
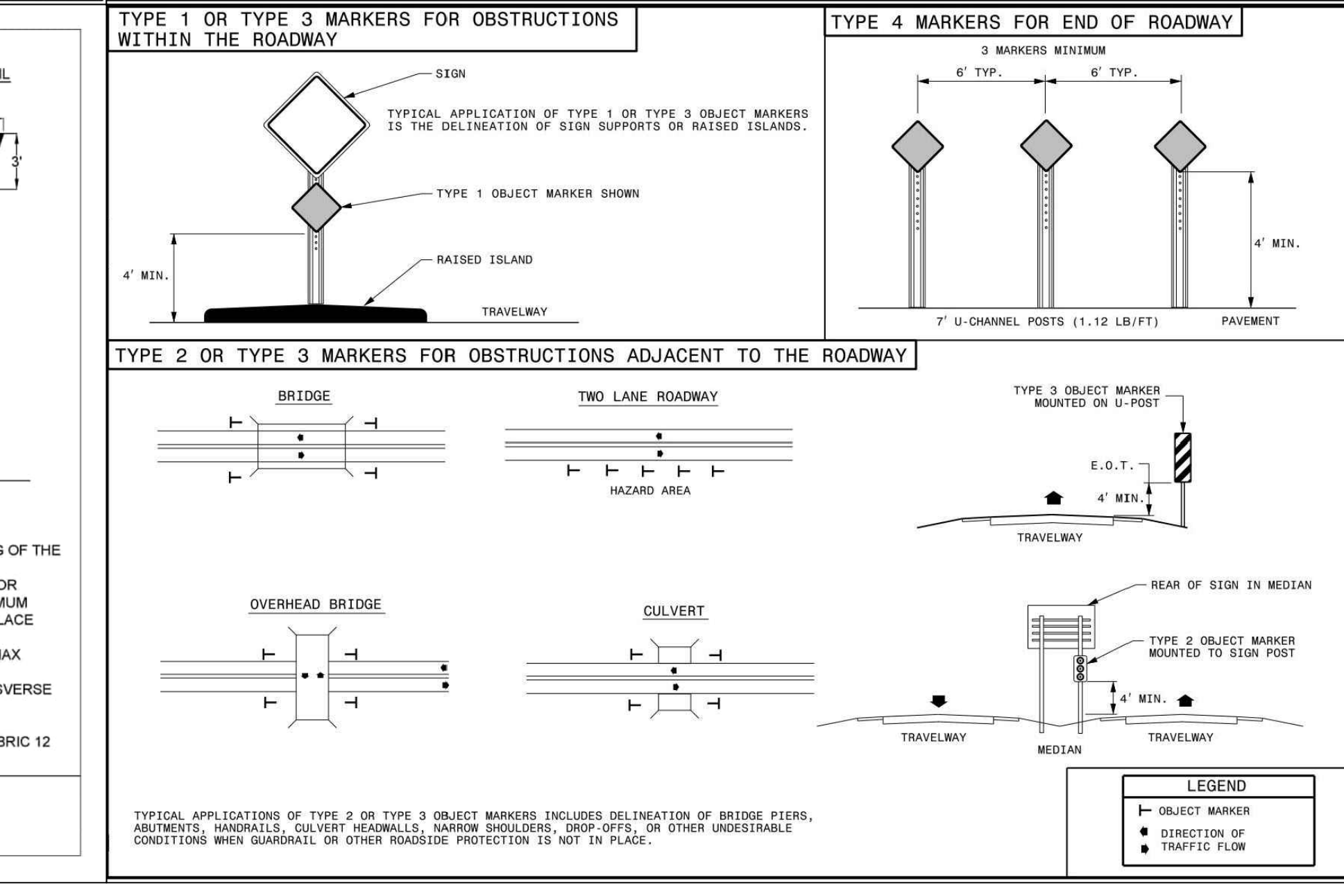
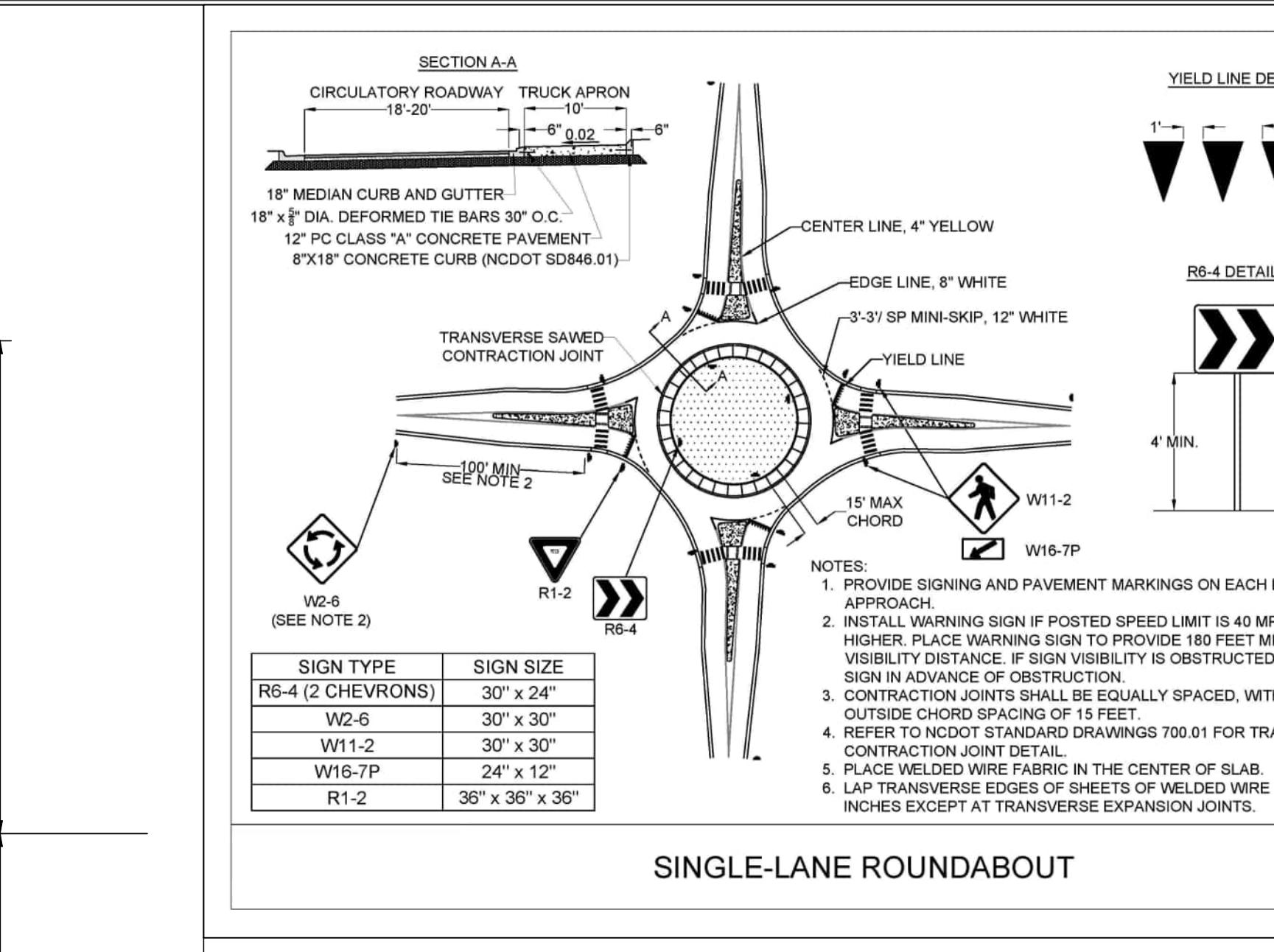
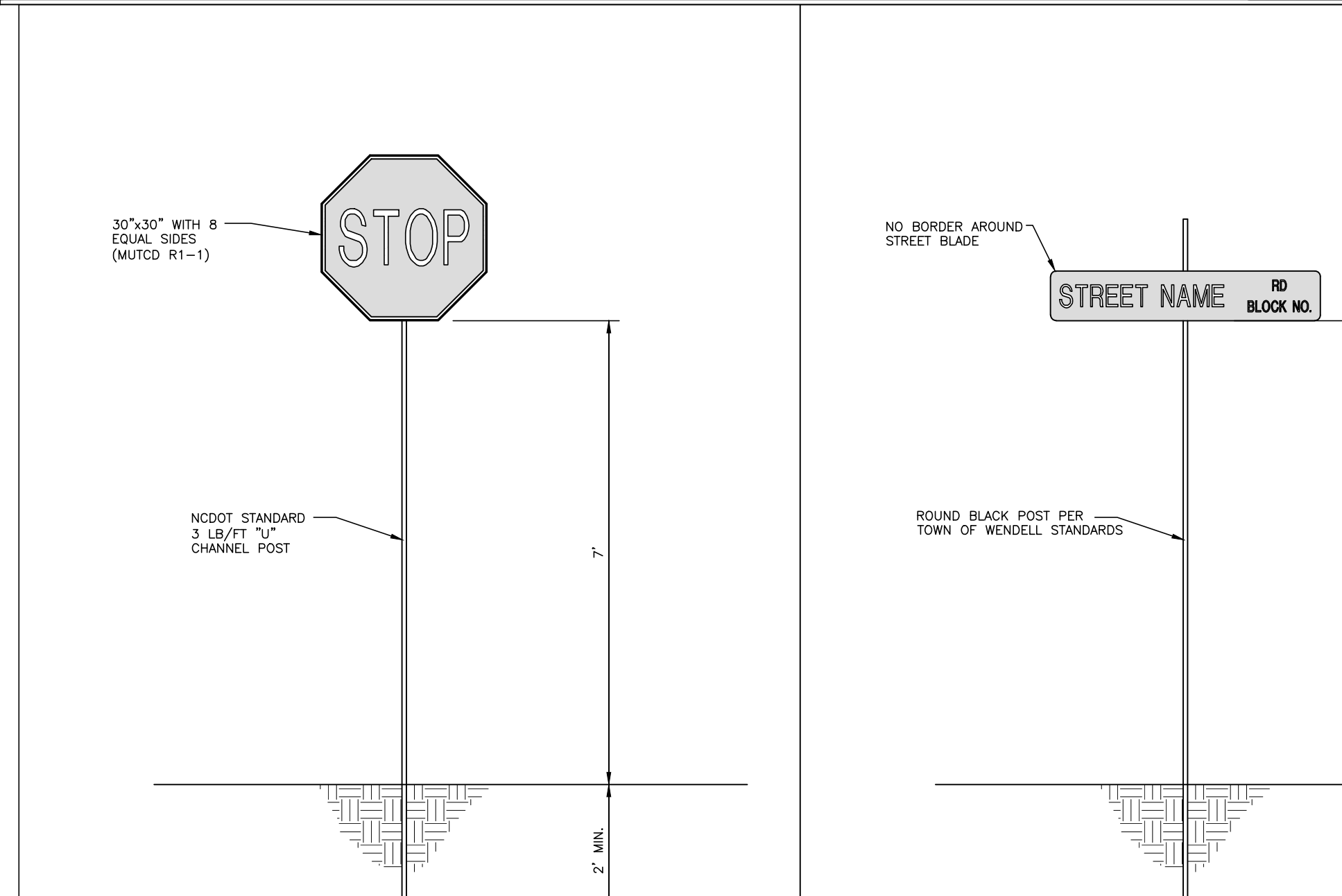
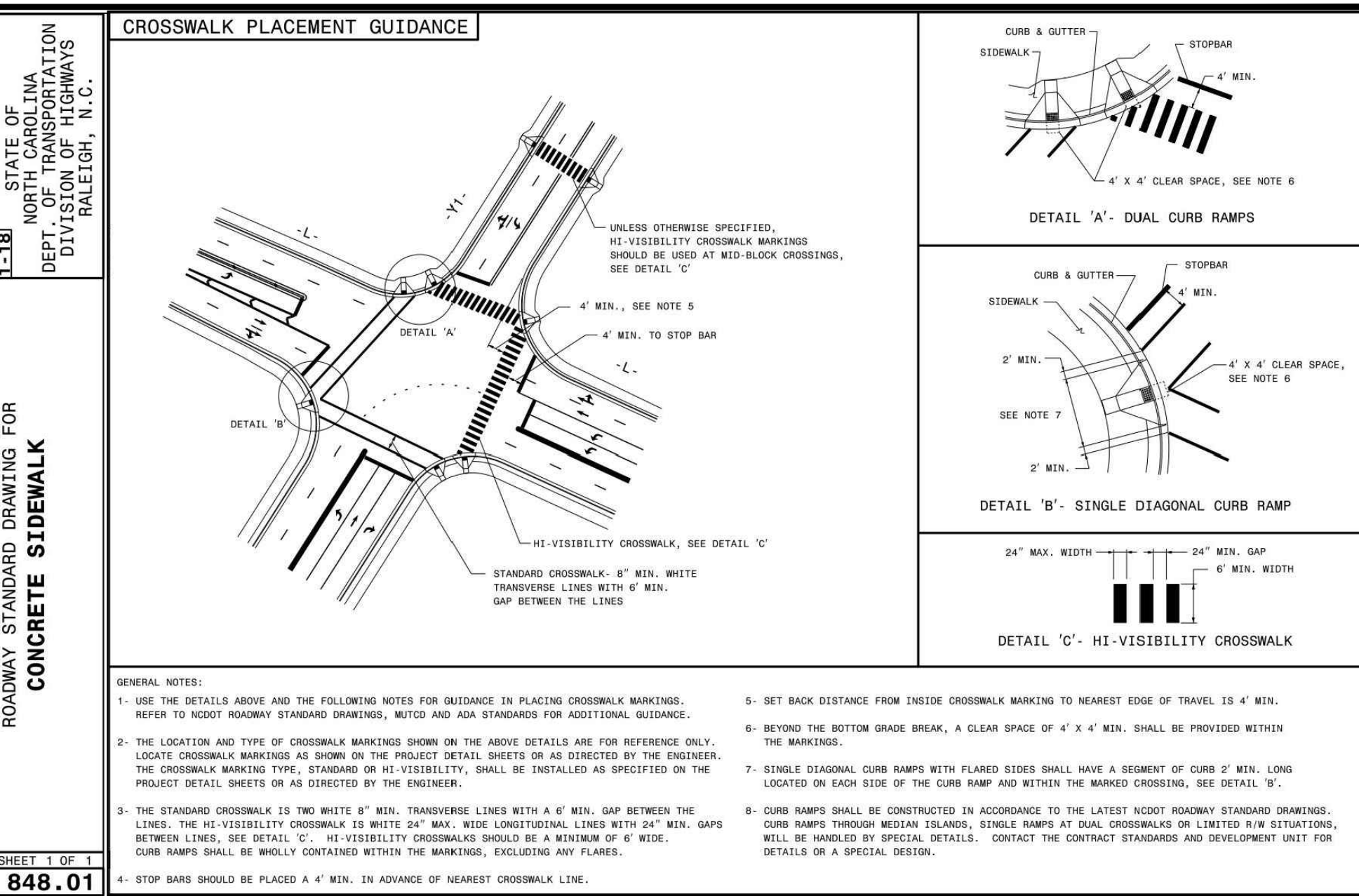
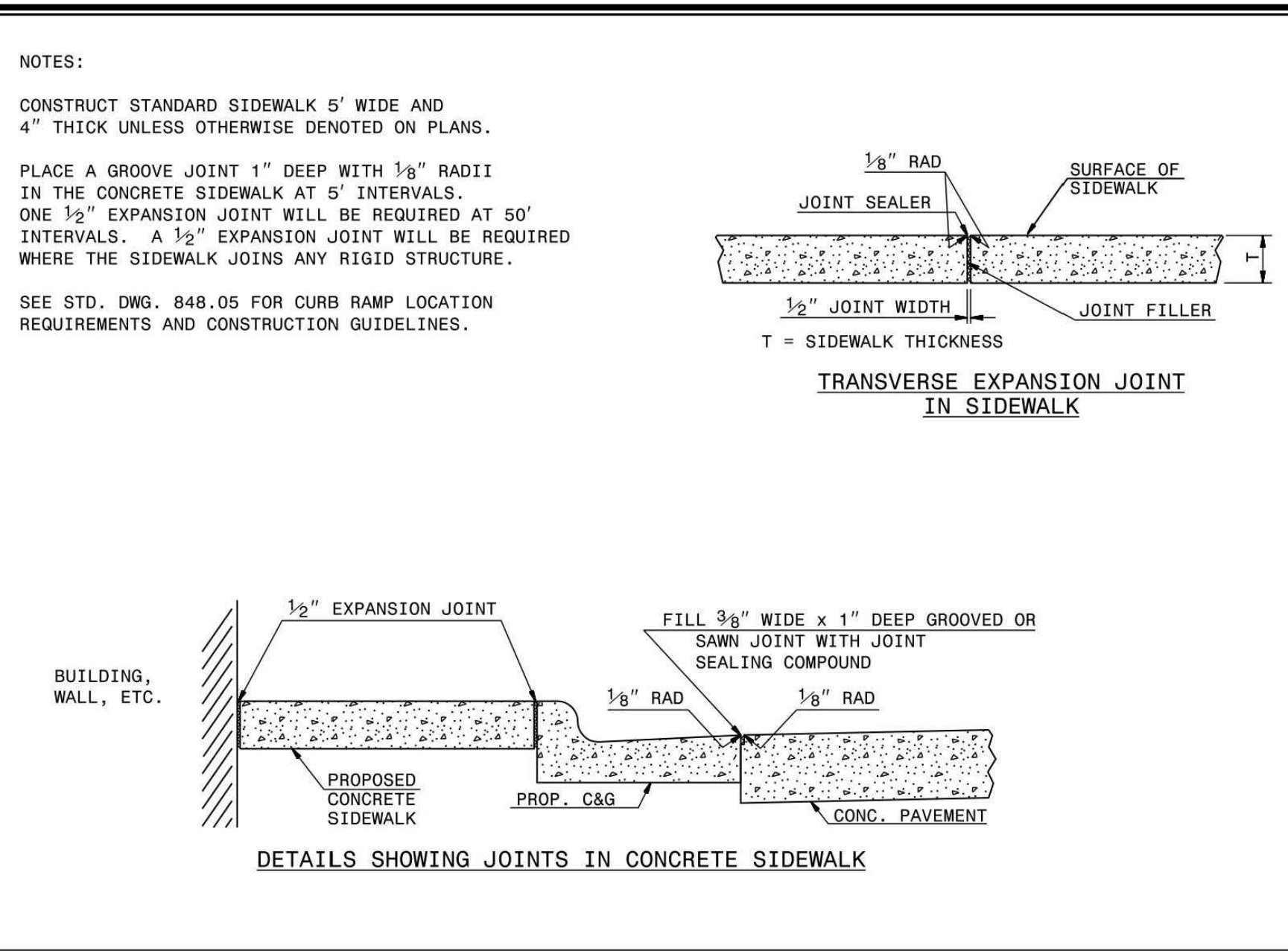
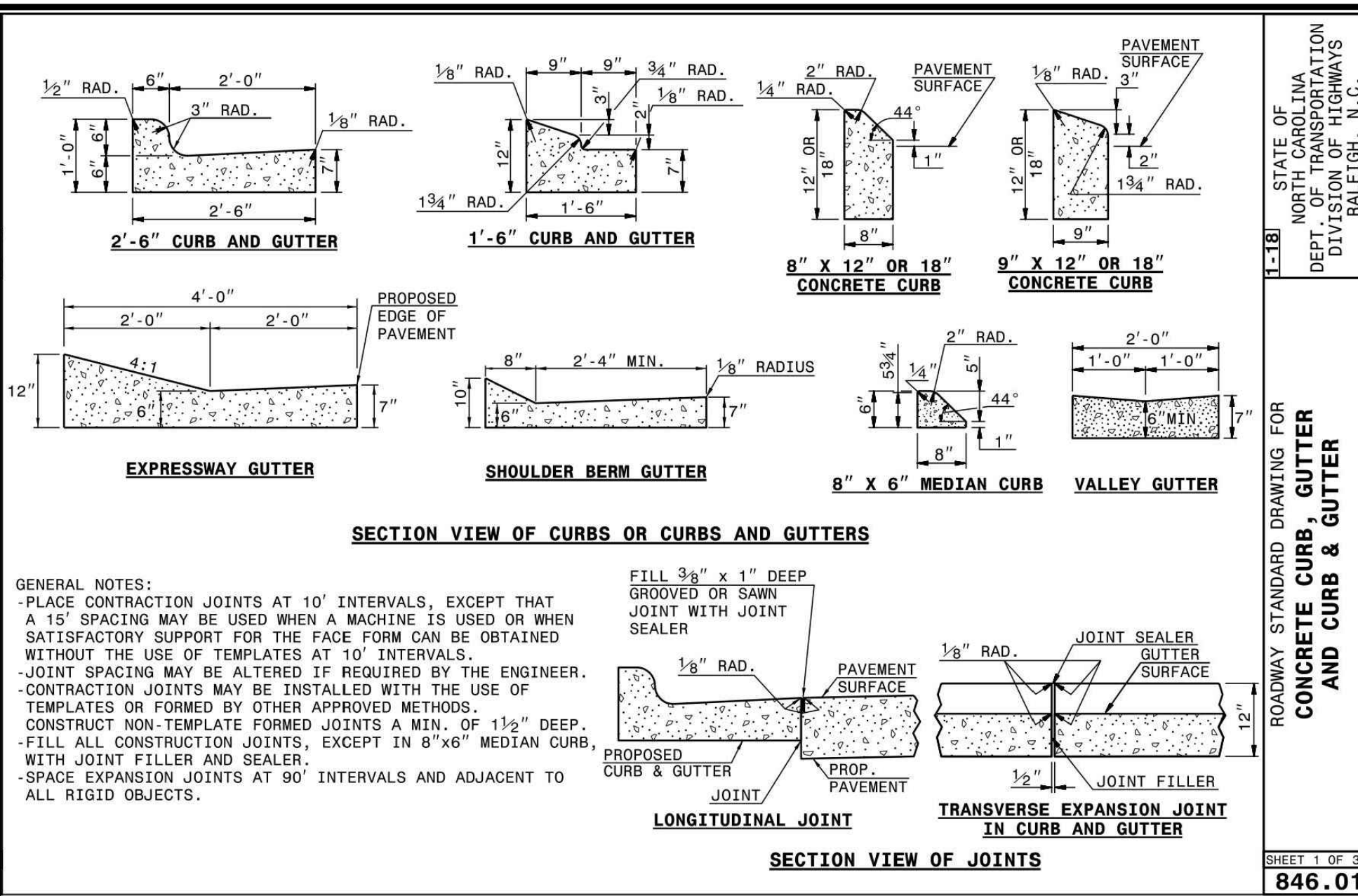
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 SCALE N.T.S.  
 DATE 12.02.2024

**SHEET**

**EROSION CONTROL DETAILS**  
**C6.22**

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION





WAKE COUNTY  
REVISOR: 1/2/2020

STANDARD TREE PROTECTION FENCE DETAIL

A-11

NOTES:  
1. ANCHOR BIKE RACK TO CONCRETE. MOUNT PER MFR. RECOMMENDATIONS.  
2. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN PAVING TYPE AND BIKE RACK MOUNTING METHOD.

BIKE RACK  
SCALE: 1/4"=1'-0"

NOTES:  
1. ALL FASTENERS AND HARDWARE SHALL BE S.S.  
2. FENCE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.  
3. FENCE DIMENSIONS (OR EQUAL) COMMERCIAL STRENGTH ALUMINUM POSTS: 2" x 2" RAILS: 1" x 1" - NO EXPOSED SCREW SYSTEM PICKETS: 5/8" x 5/8" W/ 3 1/4" SPACING COLOR: BLACK

FALL PROTECTION FENCE  
SCALE: N. T. S.

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AGNC  
BROKERAGE | CONSULTING | PLANNING

PEARCE FARM - PHASES 1-3  
CONSTRUCTION DRAWINGS - PACKAGE 1  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N. C.

ROADWAY STANDARD DRAWING FOR  
PAVEMENT MARKINGS  
PEDESTRIAN CROSSWALKS

SHEET 1 OF 1  
1205.07

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N. C.

ROADWAY STANDARD DRAWING FOR  
OBJECT MARKERS  
INSTALLATION

SHEET 1 OF 1  
1264.02

REVISIONS

| NO. | DATE |
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PLAN INFORMATION

PROJECT NO. AGN23001  
FILENAME AGN23001-D1  
CHECKED BY .  
DRAWN BY .  
SCALE N.T.S.  
DATE 12.02.2024

SHEET

SITE DETAILS

C8.00

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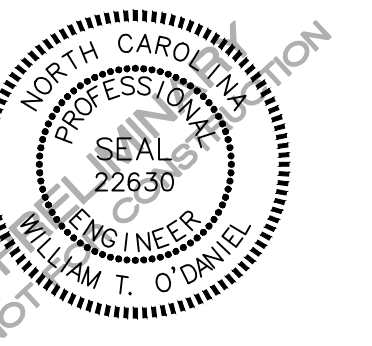
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PEARCE FARM - PHASES 1-3  
CONSTRUCTION DRAWINGS - PACKAGE 1  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



REVISIONS

NO. DATE

PLAN INFORMATION

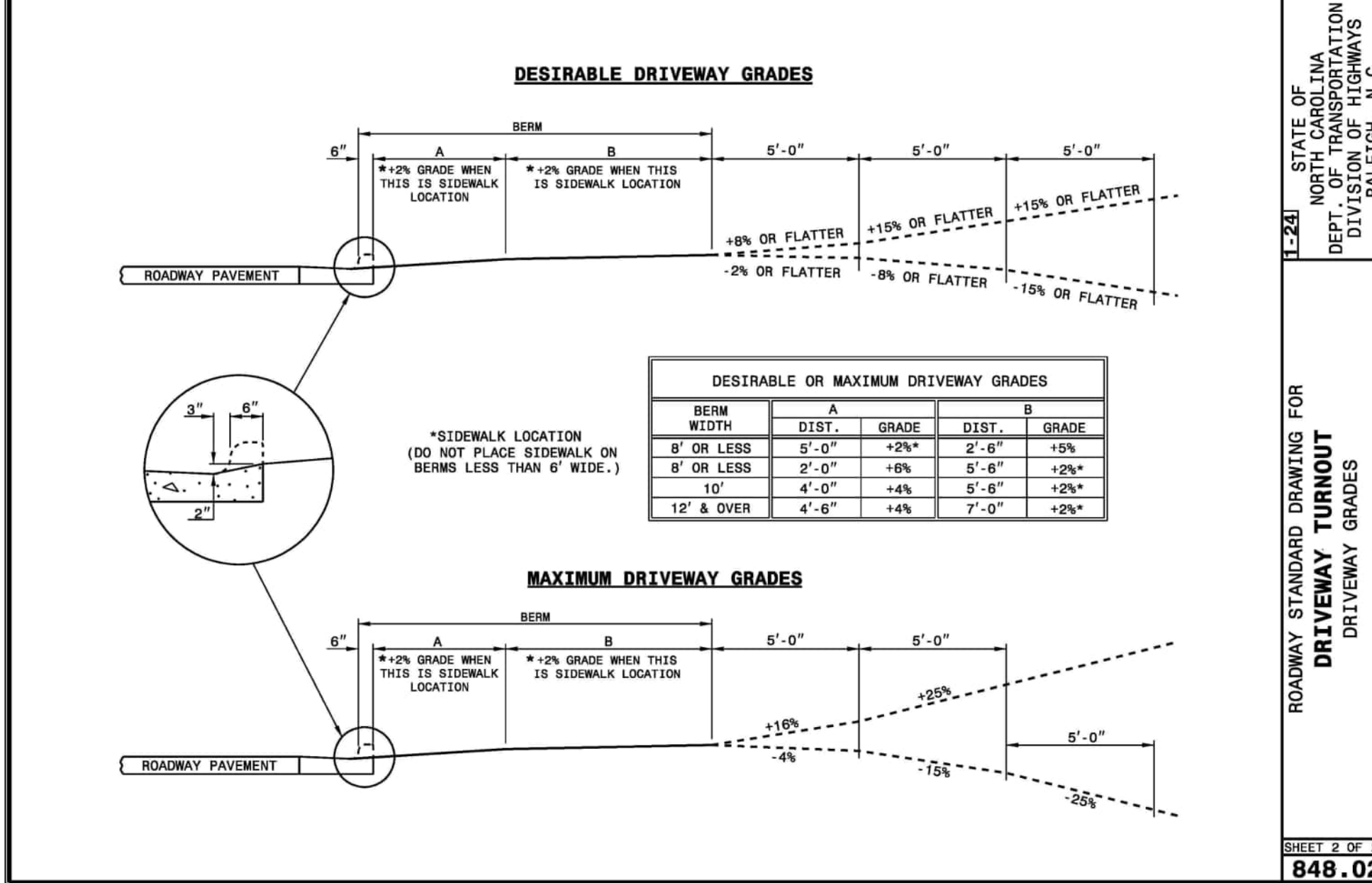
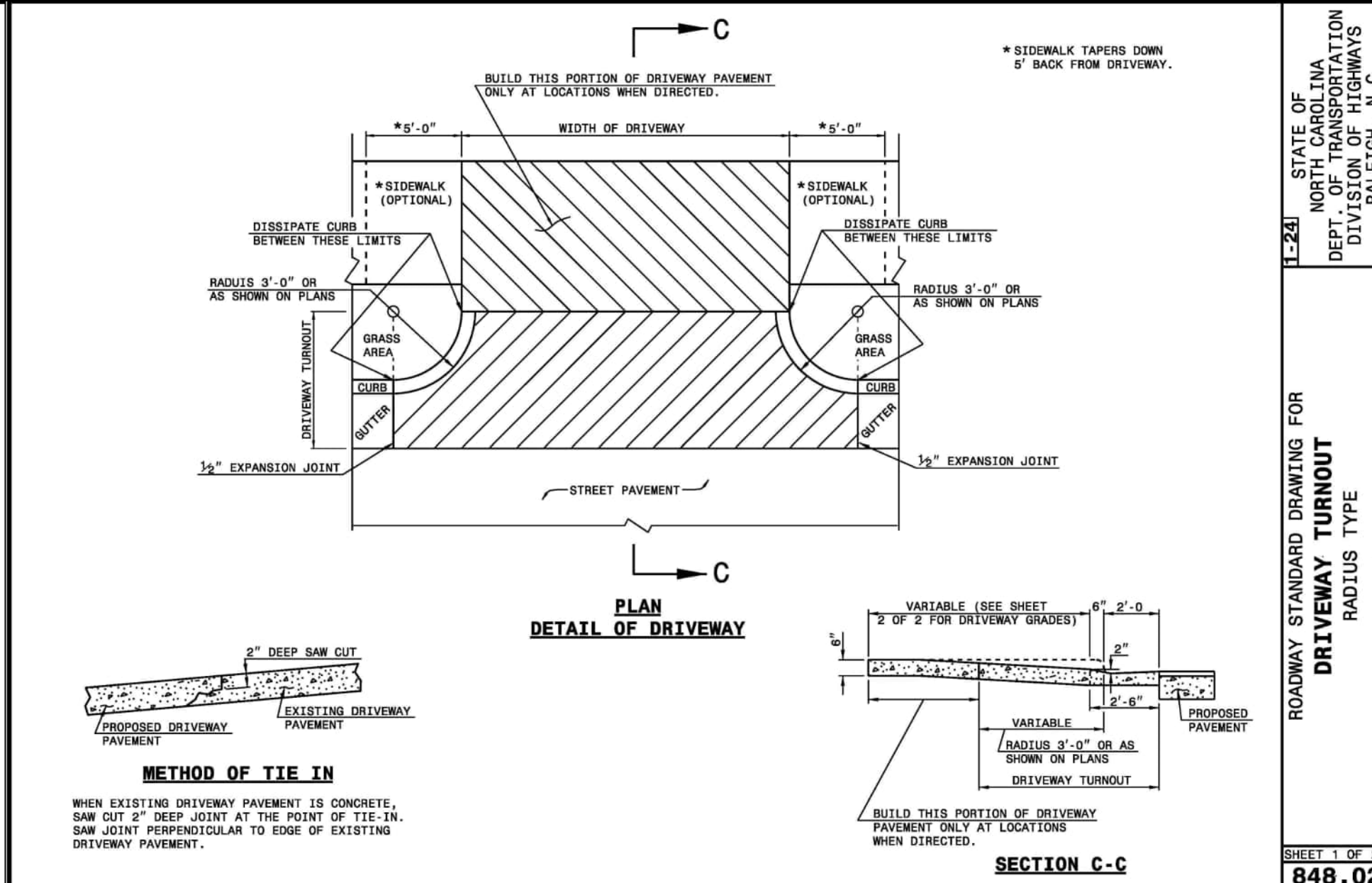
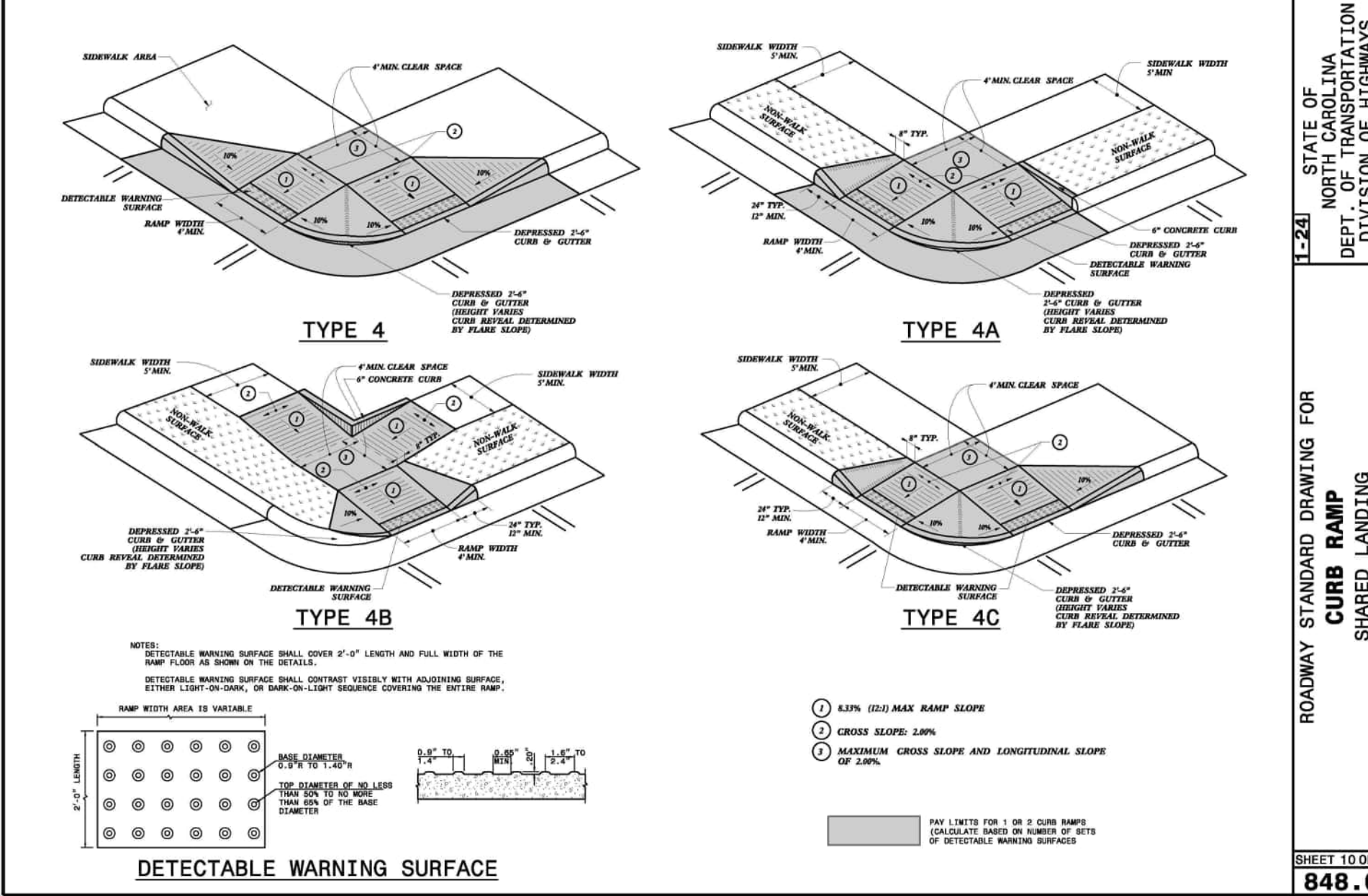
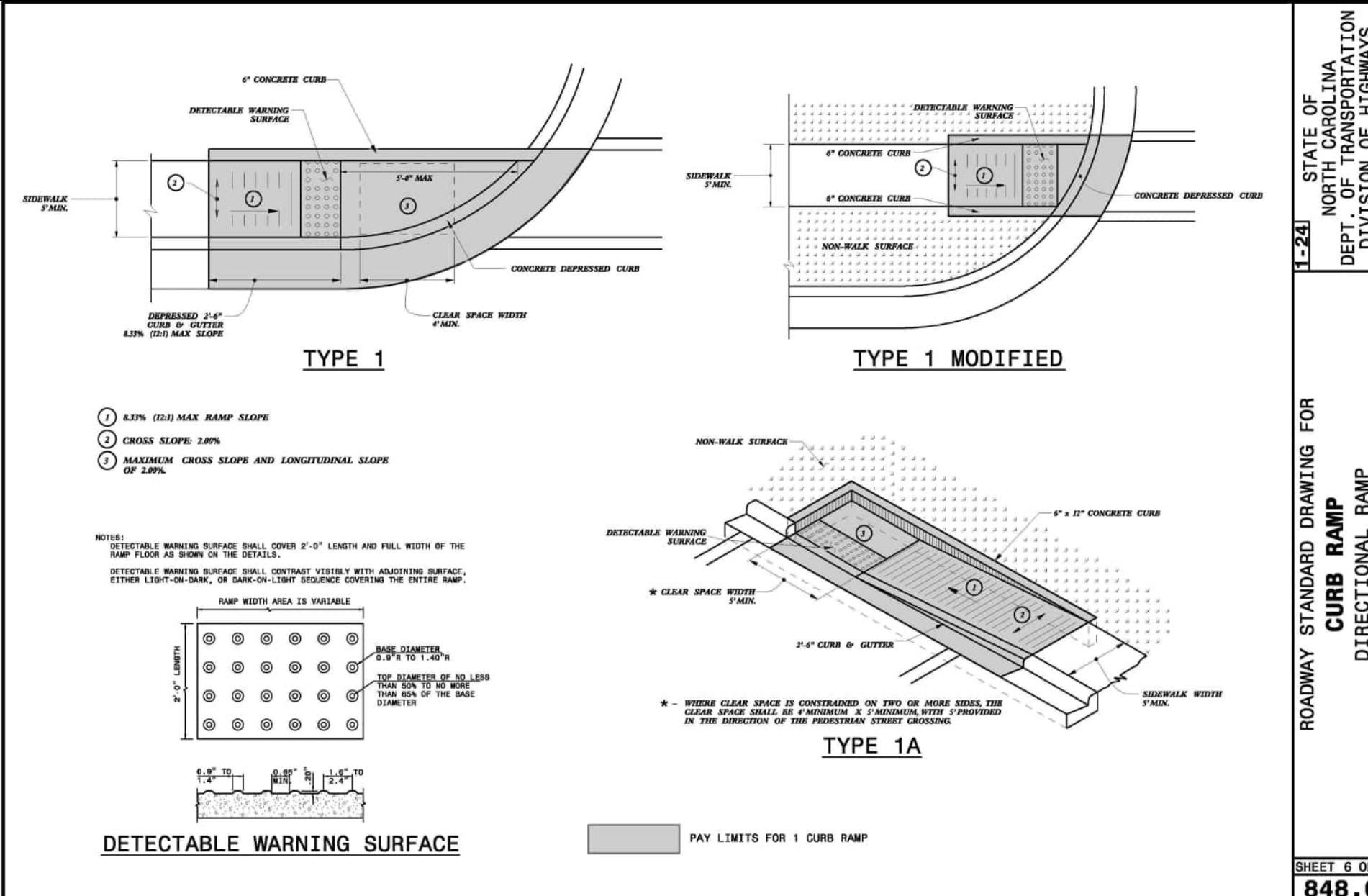
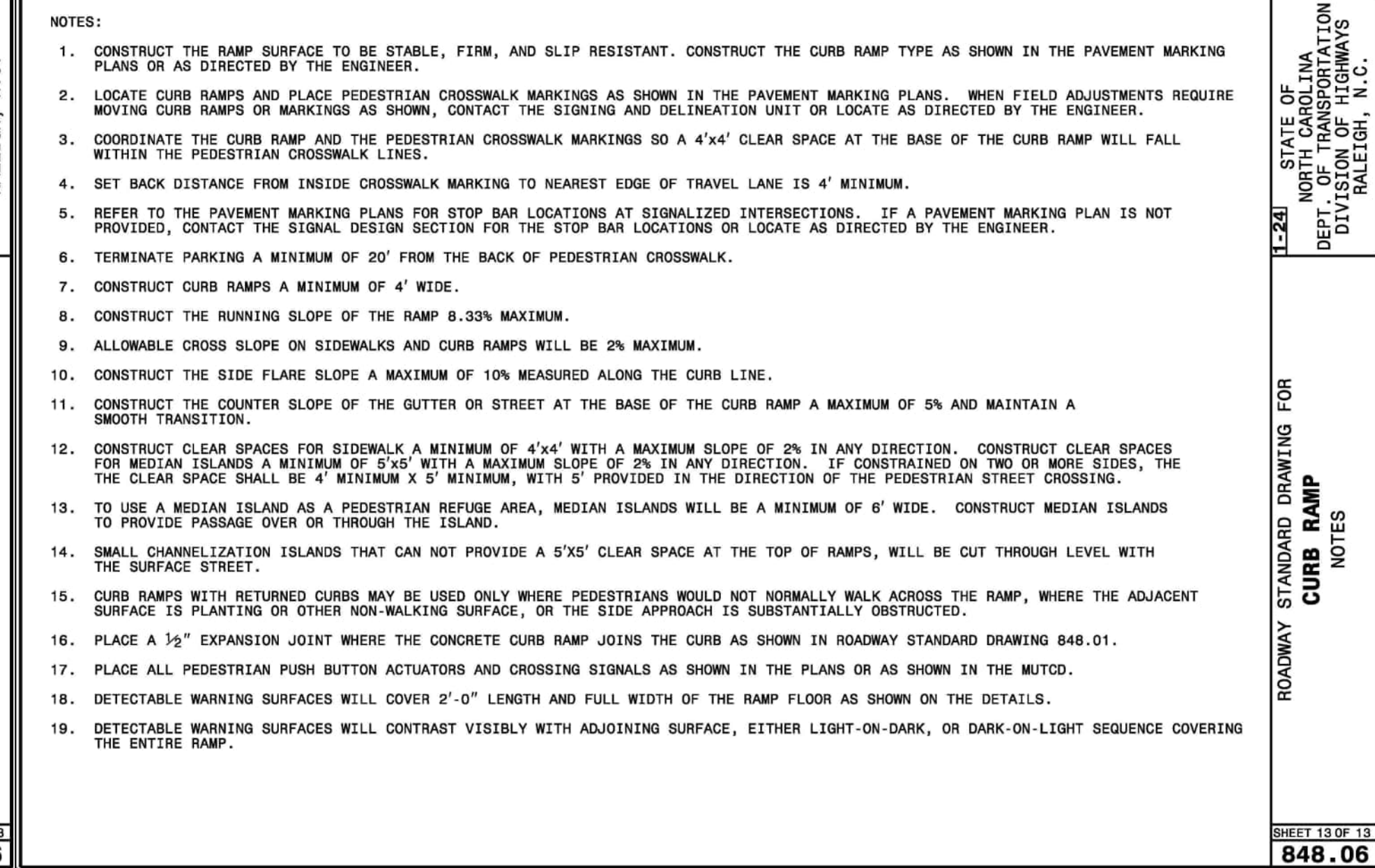
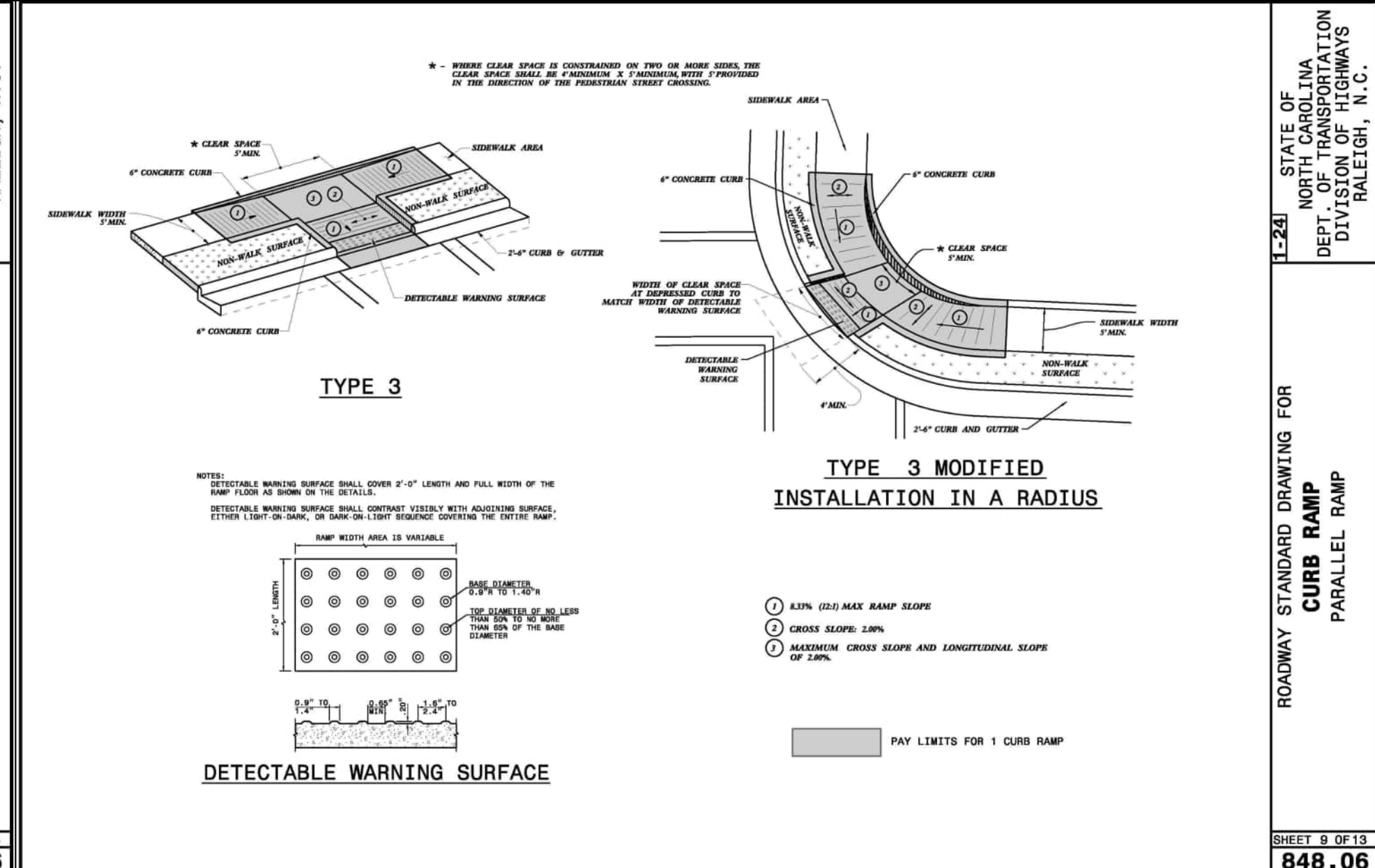
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DATE 12.02.2024

SHEET

SITE DETAILS

C8.01

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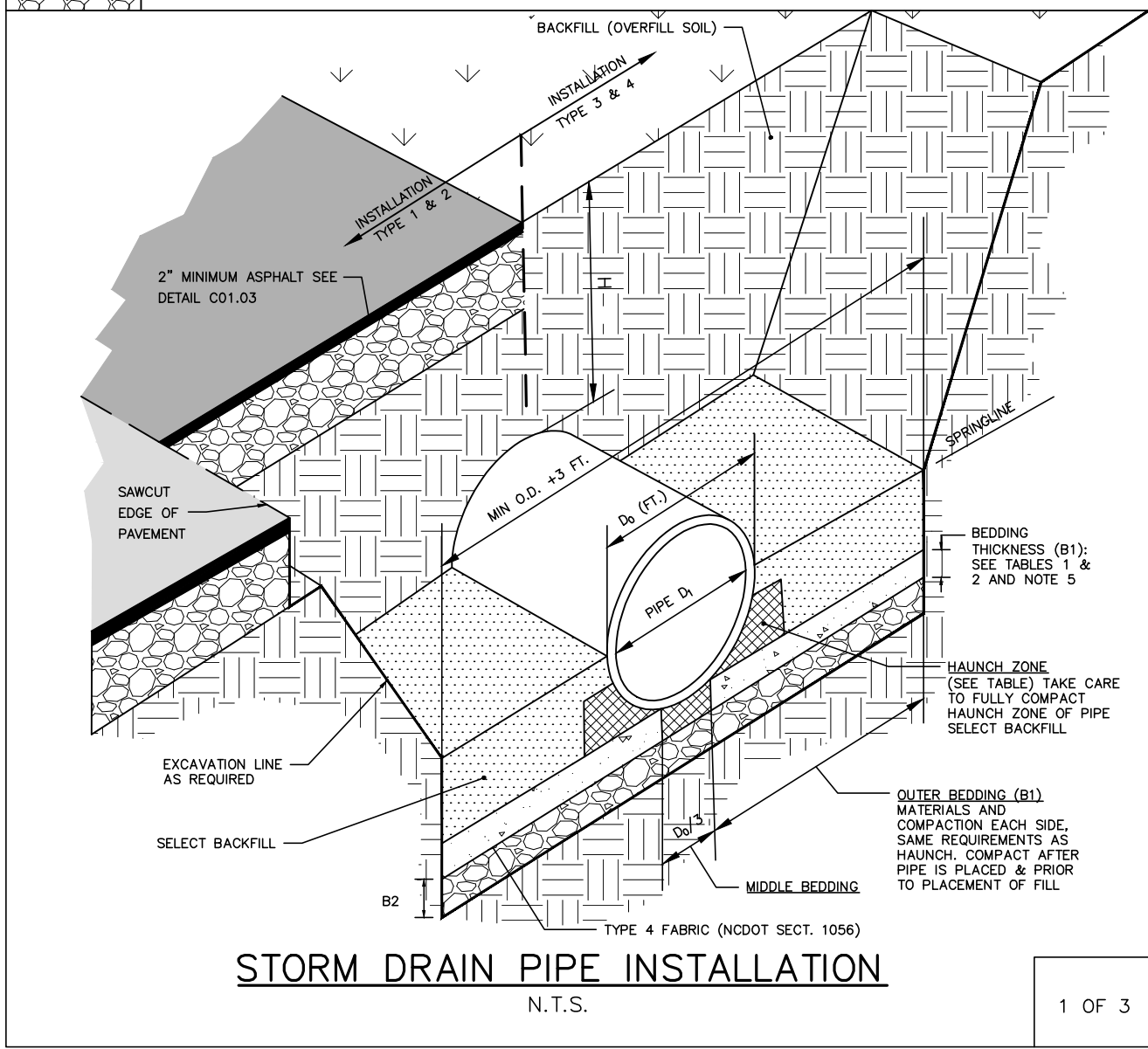
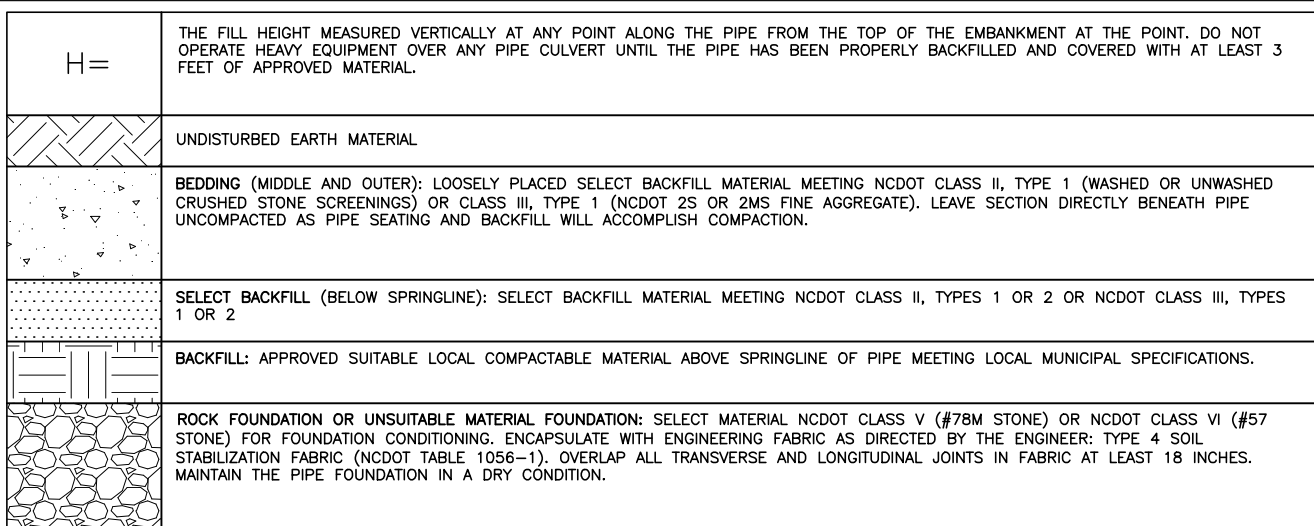


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1 OF 3

**TABLE 1**  
**EQUALENT USCS\* AND AASHTO SOIL CLASSIFICATION FOR SIDD<sup>®</sup> SOIL DESIGNATIONS**

| SIDD                       | USCS  | NCDOT/AASHTO   |
|----------------------------|---|--|
| GRAVELLY SAND (CATEGORY I) | SM, SP, OM, GP  | -NCDOT CLASS II-TYPE 1 (CRUSHED STONE SCREENINGS), LL<30, PI<6<br>-NCDOT CLASS III, TYPE 1 (25 OR 2MS), LL<30; PI<6  |
| SANDY SILT (CATEGORY II)   | OM, SM, ALSO GC, SC WITH LESS THAN 20% PASSING #200 SIEVE | -NCDOT CLASS II TYPE 1 (CRUSHED STONE SCREENINGS) AND CLASS II, TYPE 2 (ASHTO M145 FOR A-2-4 WITH MAX PI OF 6, A-4-W/ MAX 45% PASSING #200 SIEVE AND A MAX PI OF 6)<br>-NCDOT CLASS III, TYPE 1 (25 OR 2MS) OR CLASS II, TYPE 2 (ASHTO M145 FOR SOIL CLASSIFICATION A-1, OR A-2) |
| SILTY CLAY (CATEGORY III)  | CL, MH, GC, SC  | AS, AB   |

\* UNFOLD SOIL CLASSIFICATION SYSTEM  
® STANDARD INSTALLATIONS DIRECT DESIGN

**TABLE 2**  
**STANDARD INSTALLATIONS SOILS AND MINIMUM COMPACTION REQUIREMENTS**

| INSTALLATION TYPE | BEDDING THICKNESS   | OUTER BEDDING (B1) (% COMPACTION/CATEGORY)                           | HAUNCH ZONE & SELECT BACKFILL AREA (% COMPACTION/CATEGORY)           | LOCATION                                 |
|-------------------|---|--|--|--|
| TYPE 1            | B1 = 5/8" (6" MIN) 82% ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION. 2" FT OF 1/2" 12" MIN/24" MAX | 95% CATEGORY 1   | 95% CATEGORY 1<br>95% CATEGORY II                                    | PAVED AREAS WITH 2" OR LESS BURY         |
| TYPE 2            | B1 = 5/8" (6" MIN) 82% ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION. 2" FT OF 1/2" 12" MIN/24" MAX | 90% CATEGORY 1   | 85% CATEGORY 1<br>90% CATEGORY II                                    | PAVED AREAS WITH GREATER THAN 2" OF BURY |
| TYPE 3            | B1 = 5/8" (6" MIN) 82% ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION. 2" FT OF 1/2" 12" MIN/24" MAX | 85% CATEGORY 1<br>90% CATEGORY II                                    | 80% CATEGORY I<br>90% CATEGORY II OR 95% CATEGORY III                | IN R/W OUTSIDE OF PAVEMENT               |
| TYPE 4            | B1 = 5/8" (6" MIN) 82% ROCK FOUNDATION OR OVER UNSUITABLE FOUNDATION. 2" FT OF 1/2" 12" MIN/24" MAX | NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 85% CATEGORY II. | NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 85% CATEGORY II. | NATURAL AREAS                            |

**NOTES:**

- COMPACTION AND SOIL SYMBOLS - I.E. "95% CATEGORY I" - REFERS TO CATEGORY I SOIL MATERIAL WITH MINIMUM STANDARD PROCTOR COMPACTION OF 95%.
- SOIL IN THE OUTER BEDDING, HAUNCH, AND LOWER SIDE ZONES, EXCEPT UNDER THE MIDDLE 1/4 OF THE PIPE, SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS THE MAJORITY OF THE SOIL IN THE OVERFILL (BACKFILL) ZONE.
- FOR TRENCHES, THE TOP ELEVATION SHALL BE NO LOWER THAN 0.1H BELOW FINISHED GRADE OR, FOR ROADWAYS, ITS TOP SHALL BE NO LOWER THAN AN ELEVATION OF 1-FOOT BELOW THE BOTTOM OF THE PAVEMENT BASIC MATERIAL.
- FOR TRENCHES, THE WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
- COMPACT OUTER BEDDING AFTER PIPE IS PLACED AND PRIOR TO PLACEMENT OF SELECT FILL. MIDDLE BEDDING IS UNCOMPACTED.
- OVERFILL (BACKFILL) SOILS TO BE PLACED PER STANDARD SPECIFICATION 02700 STORM DRAINAGE FOR THE APPLICABLE BACKFILL TYPE AND BURY LIMITATIONS.
- THESE TWO TABLES WERE MODIFIED TO GENERALLY CONFORM TO THE NCDOT STANDARDS AS SHOWN IN DETAIL 300.01 RIGID PIPE IN TRENCH CONDITION.

**REFERENCE SOURCES:**

- AMERICAN CONCRETE PIPE ASSOCIATION DESIGN STANDARDS
- 2012 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES AND NCDOT STANDARD DETAILS 300.01 FOR RIGID PIPE, TRENCH CONDITIONS.

2 OF 3

**FILL HEIGHT TABLE<sup>a</sup>**

| INSIDE PIPE DIAMETER DI (INCHES) | TYPE 3 (BEDDING) INSTALLATION (0.01 INCH CRACK) |                                     | TYPE 4 (BEDDING) INSTALLATION (0.01 INCH CRACK) |                                     |
|----------------------------------|---|-------------------------------------|---|-------------------------------------|
|                                  | CLASS III PIPE MAXIMUM BURY H (FEET)            | CLASS IV PIPE MAXIMUM BURY H (FEET) | CLASS III PIPE MAXIMUM BURY H (FEET)            | CLASS IV PIPE MAXIMUM BURY H (FEET) |
| 15                               | 2 MIN, 12 MAX                                   | 1 MIN, 20 MAX                       | 3 MIN, 7 MAX                                    | 2 MIN, 12 MAX                       |
| 18                               | 2 MIN, 12 MAX                                   | 1 MIN, 20 MAX                       | 3 MIN, 7 MAX                                    | 1 MIN, 13 MAX                       |
| 24                               | 1 MIN, 12 MAX                                   | 1 MIN, 20 MAX                       | 2 MIN, 8 MAX                                    | 1 MIN, 13 MAX                       |
| 30                               | 1 MIN, 12 MAX                                   | 1 MIN, 20 MAX                       | 1 MIN, 8 MAX                                    | 1 MIN, 13 MAX                       |
| 36                               | 1 MIN, 12 MAX                                   | 1 MIN, 20 MAX                       | 1 MIN, 8 MAX                                    | 1 MIN, 13 MAX                       |
| 42                               | 1 MIN, 12 MAX                                   | 1 MIN, 20 MAX                       | 1 MIN, 8 MAX                                    | 1 MIN, 13 MAX                       |
| 48                               | 1 MIN, 12 MAX                                   | 1 MIN, 19 MAX                       | 1 MIN, 8 MAX                                    | 1 MIN, 13 MAX                       |
| 54                               | 1 MIN, 12 MAX                                   | 1 MIN, 19 MAX                       | 1 MIN, 8 MAX                                    | 1 MIN, 13 MAX                       |
| 60                               | 1 MIN, 12 MAX                                   | 1 MIN, 19 MAX                       | 1 MIN, 8 MAX                                    | 1 MIN, 13 MAX                       |
| 72                               | 1 MIN, 11 MAX                                   | 1 MIN, 19 MAX                       | 1 MIN, 7 MAX                                    | 1 MIN, 13 MAX                       |

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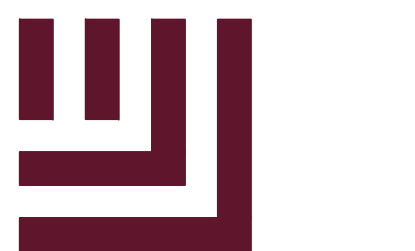
- Ys = 120 PCF (BACKFILL LOAD)
- AASHTO H1-93 LIVE LOAD
- POSITIVE PROJECTING EMBANKMENT CONDITION (THIS GIVES CONSERVATIVE RESULTS IN COMPARISON TO TRENCH CONDITIONS)
- PIPE = REINFORCED CONCRETE PIPE MEETING ASTM C76 (AASHTO M170), WALL C THICKNESS
- CONCRETE PIPE SHOULD BE INSTALLED IN ACCORDANCE WITH AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS SECTION 27 OR ASTM C1479.

<sup>a</sup> FILL HEIGHT TABLES, THE PORTION EXCERPTED HERE, WAS DEVELOPED BY THE AMERICAN CONCRETE PIPE ASSOCIATION (ACPA) USING THE INDIRECT DESIGN METHOD IN ACCORDANCE WITH SECTION 12.10.4.3 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 4TH, 2007 WITH 2008 INTERIM.

**NOTES:**

- GREATER BURY DEPTHS THAN THOSE SHOWN ABOVE ARE ACHIEVABLE BY EITHER USING TYPE 1 OR 2 INSTALLATION, USING CLASS V PIPE, CONTROLLING BACKFILL TYPE, CALCULATING DEPTH USING A TRENCH CONDITION, OR BY SPECIAL DESIGN. SEE ALSO DESIGN DATA 9 PUBLISHED BY THE ACPA FOR DESIGN METHODOLOGY.
- IN LIEU OF CALCULATING BURY DEPTH FOR OTHER CONDITIONS, FIRST SEE "LRFD FILL HEIGHT TABLES FOR CONCRETE PIPE", LAST REVISED JULY 2009 (OR LATER), PREPARED BY THE ACPA FOR OTHER BURY DEPTH POSSIBILITIES

3 OF 3



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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

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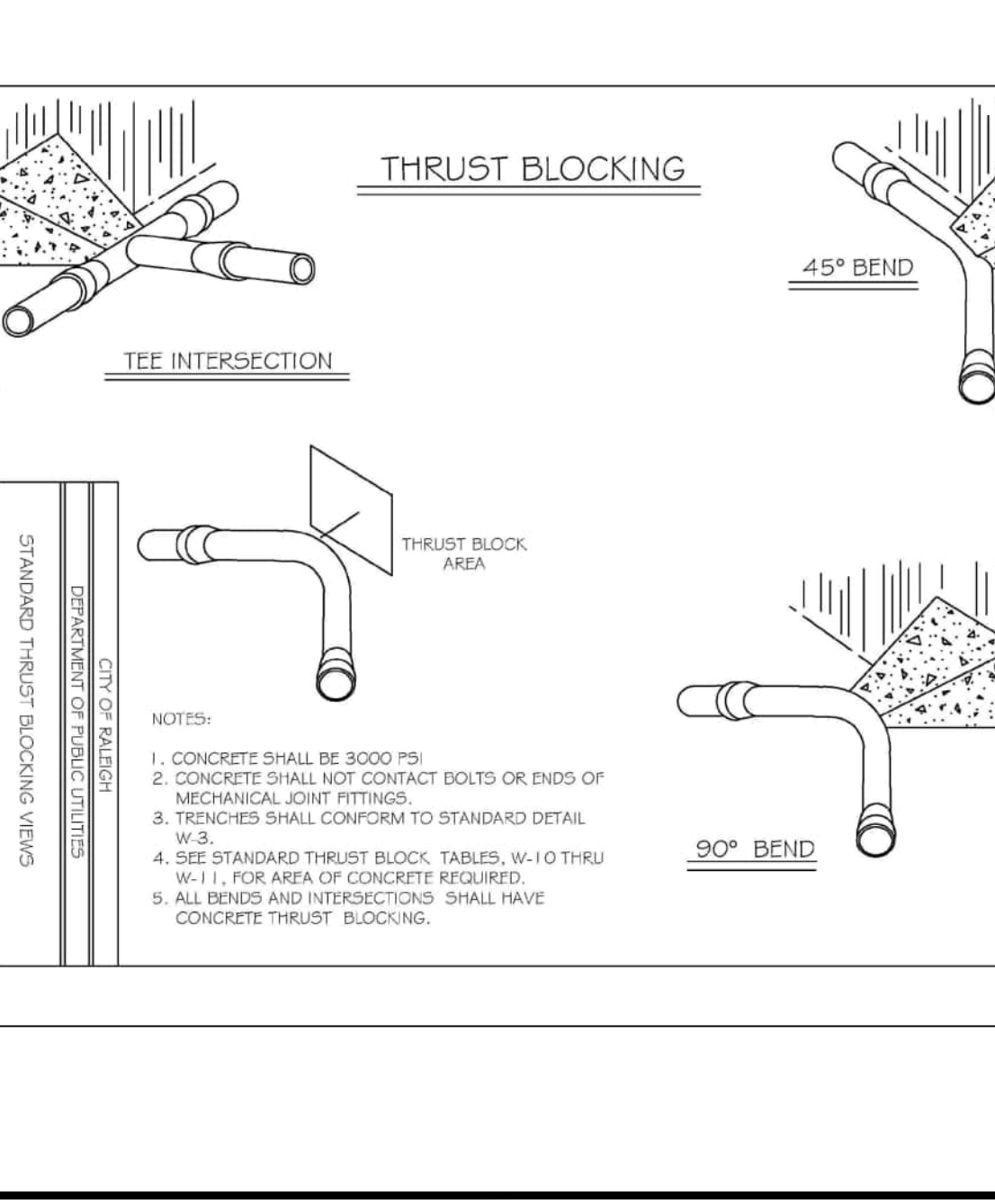
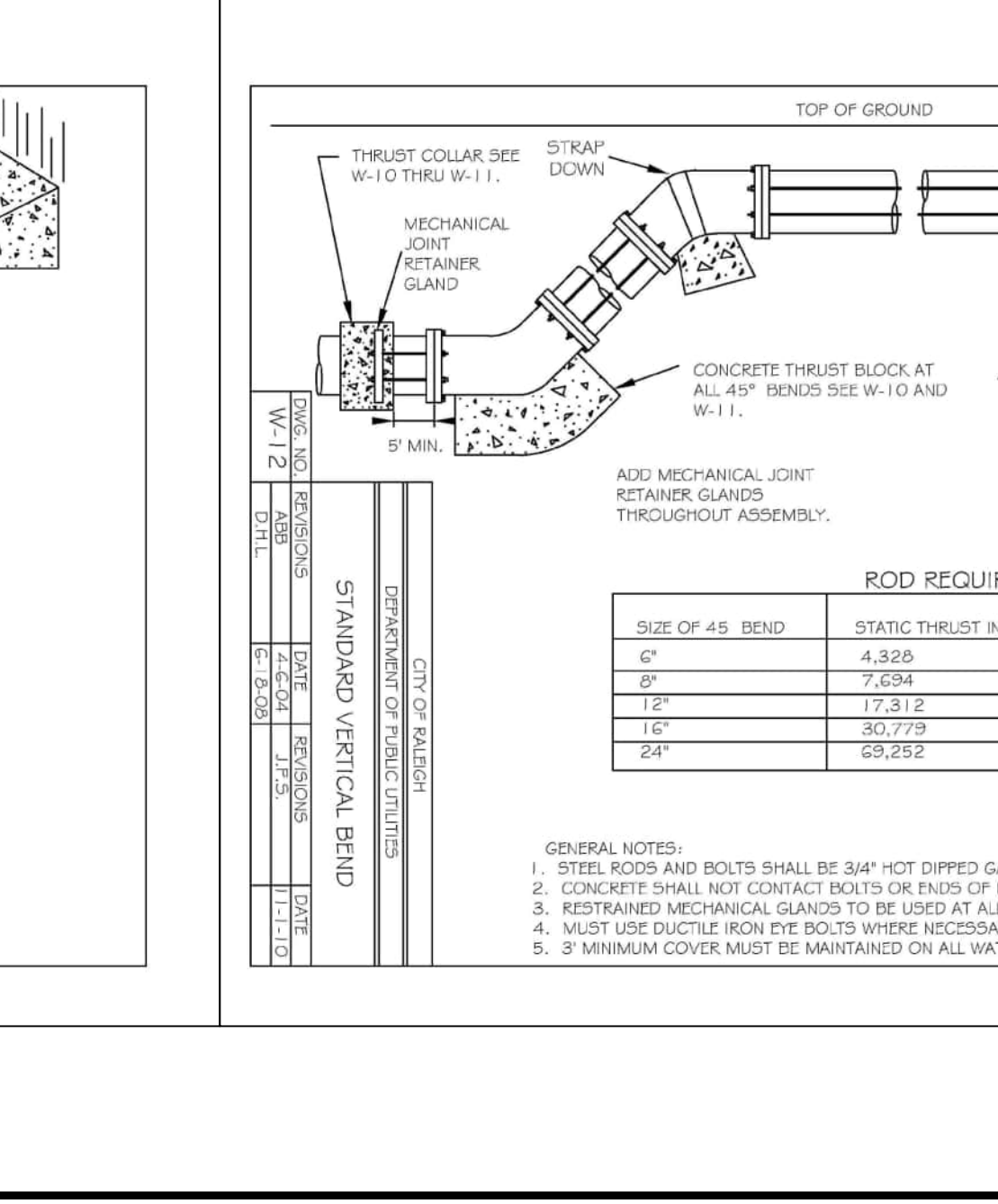
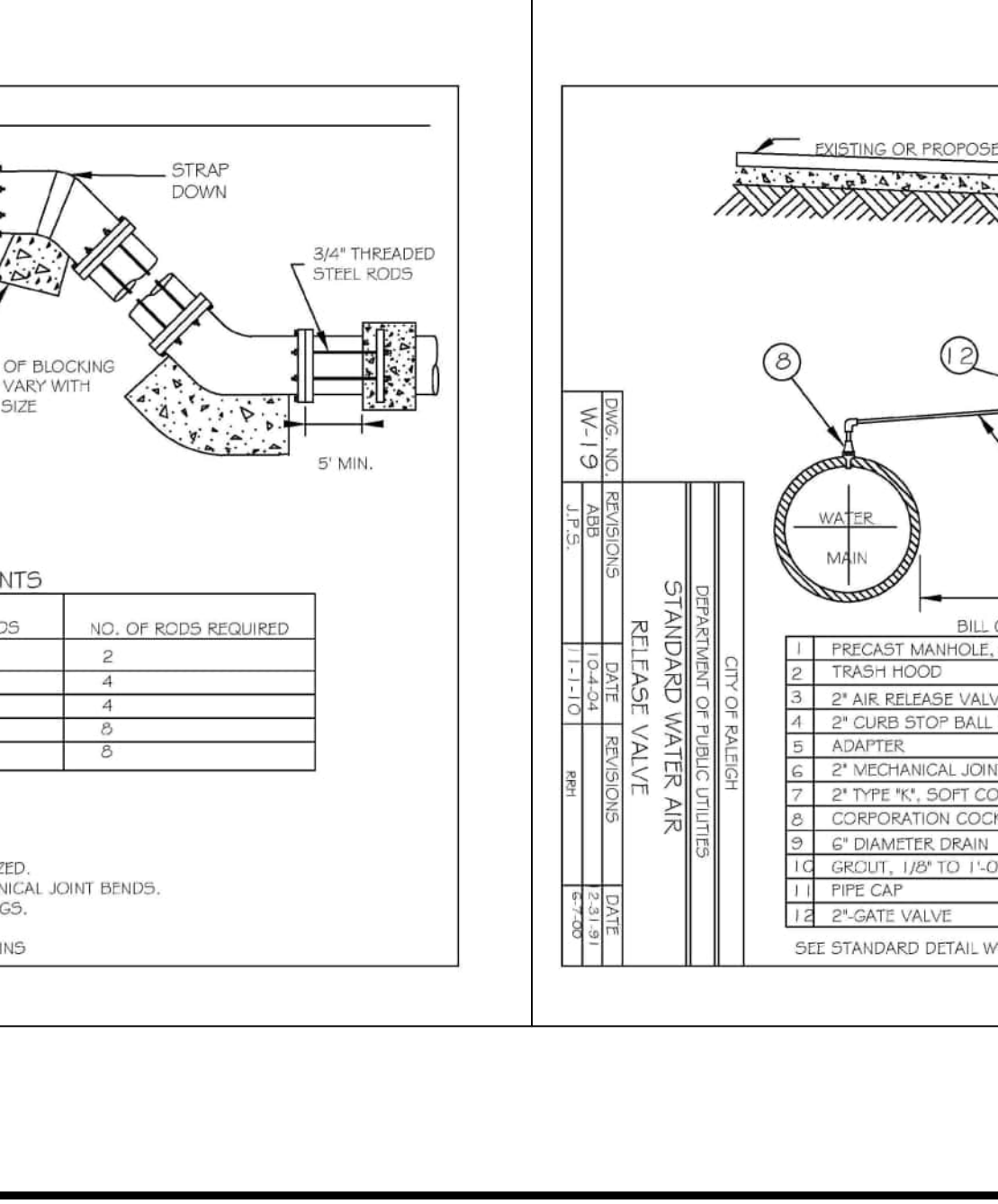
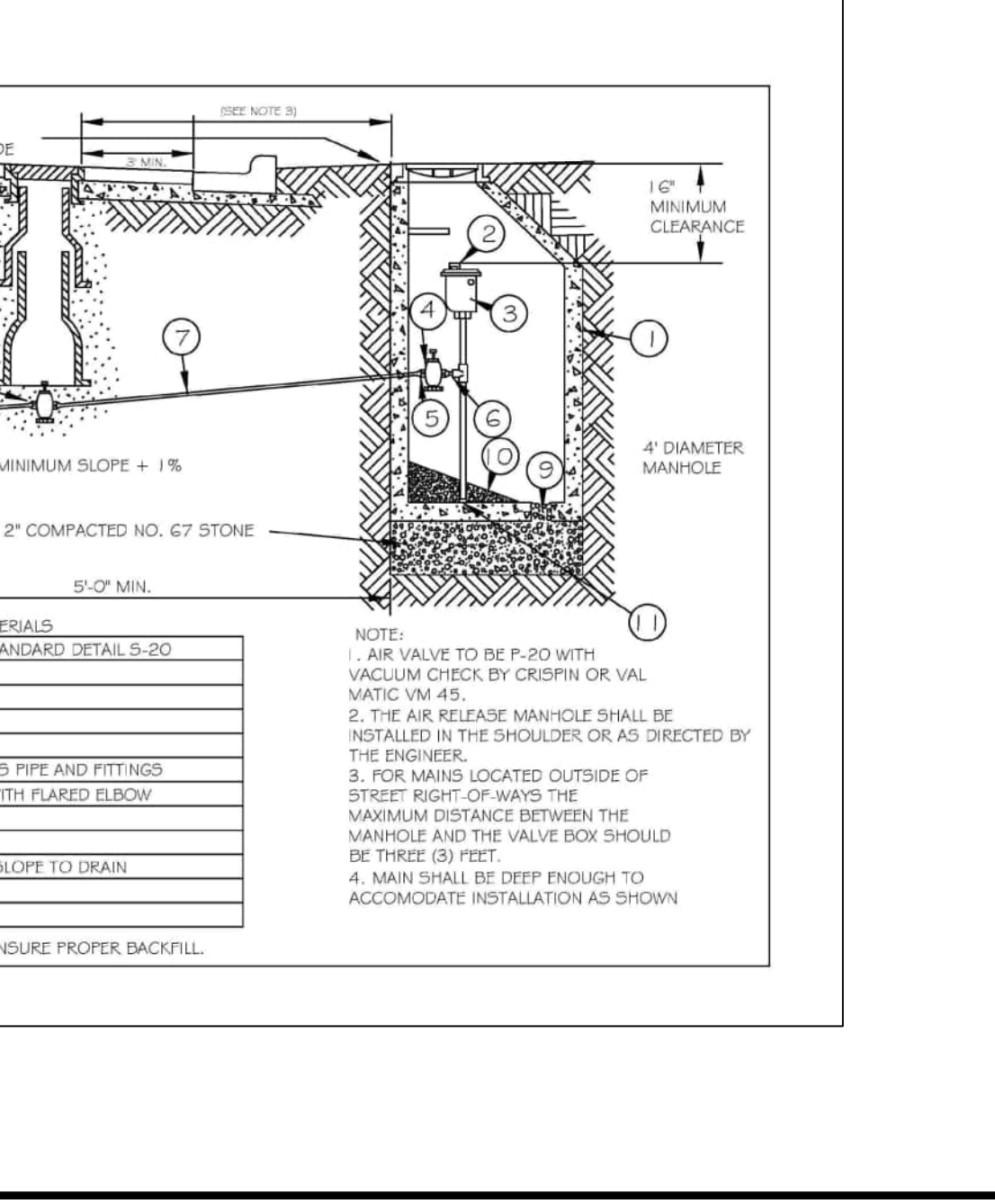
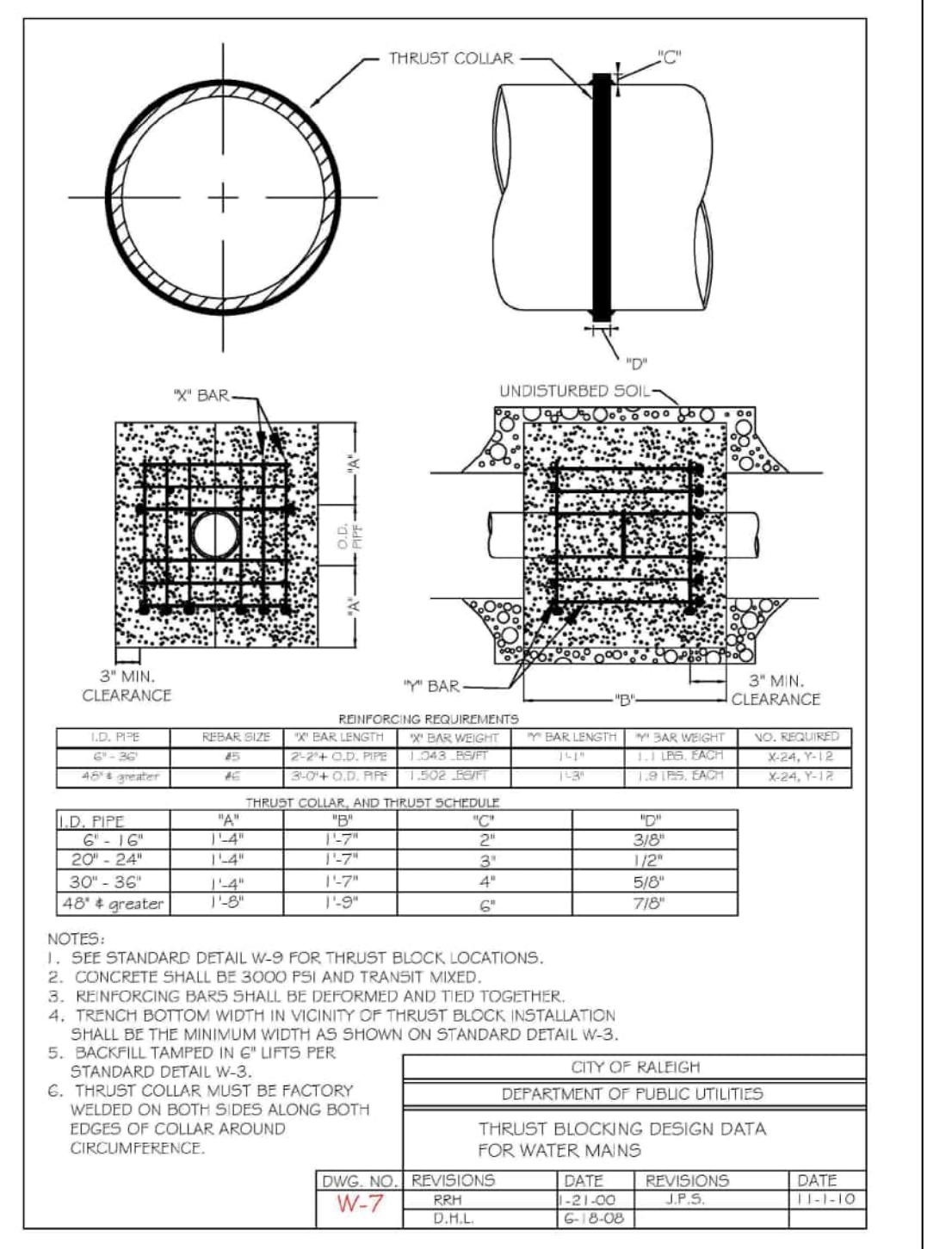
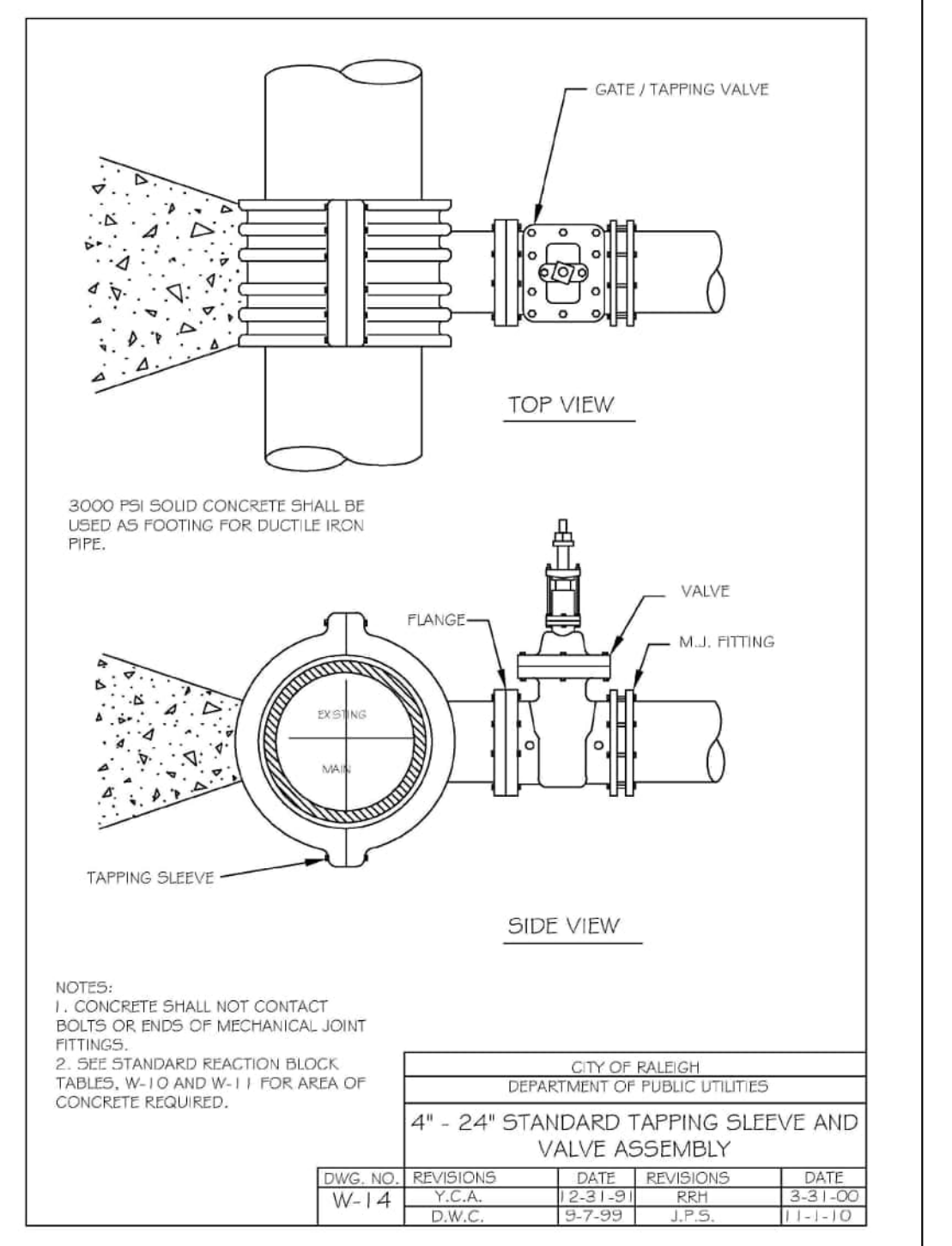
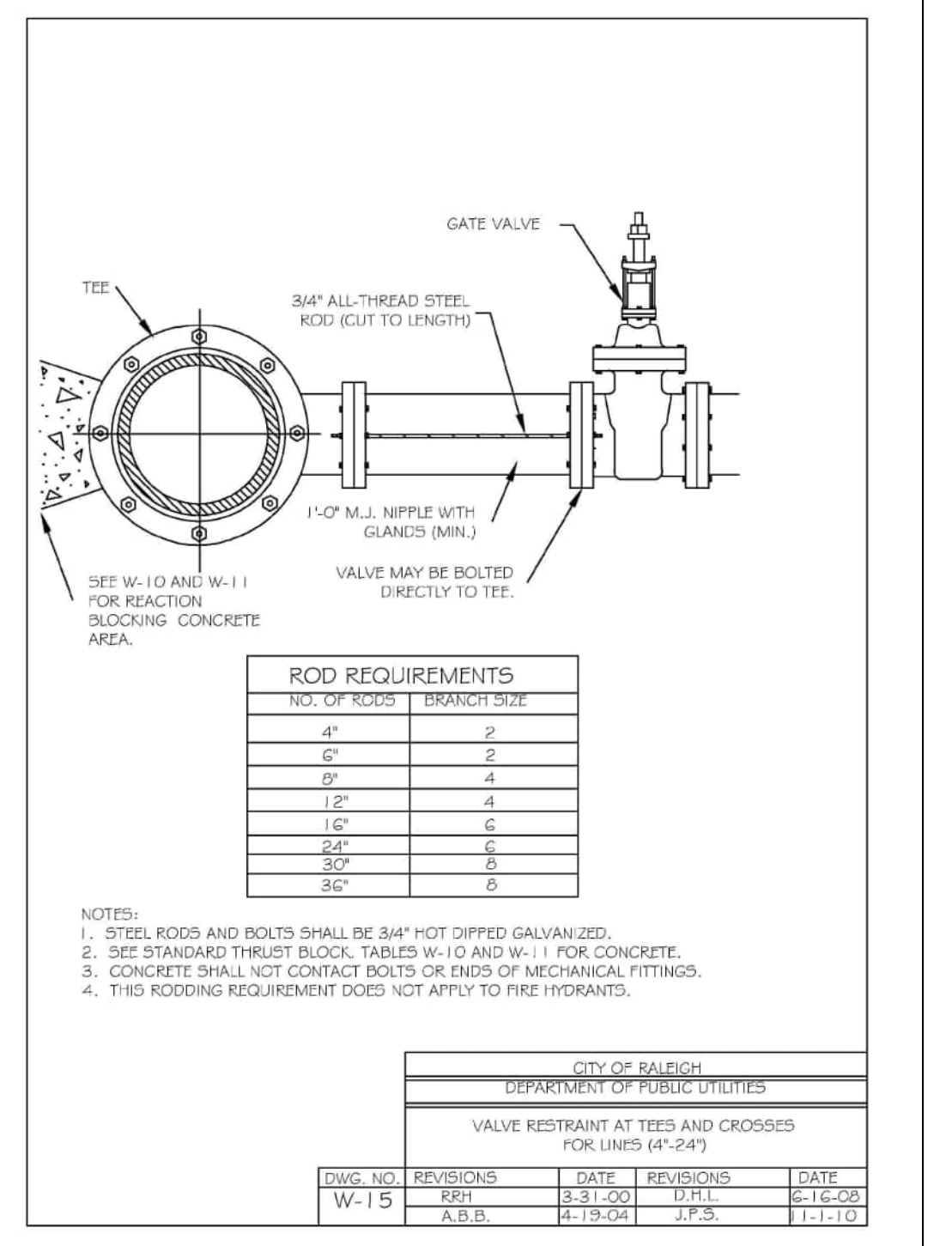
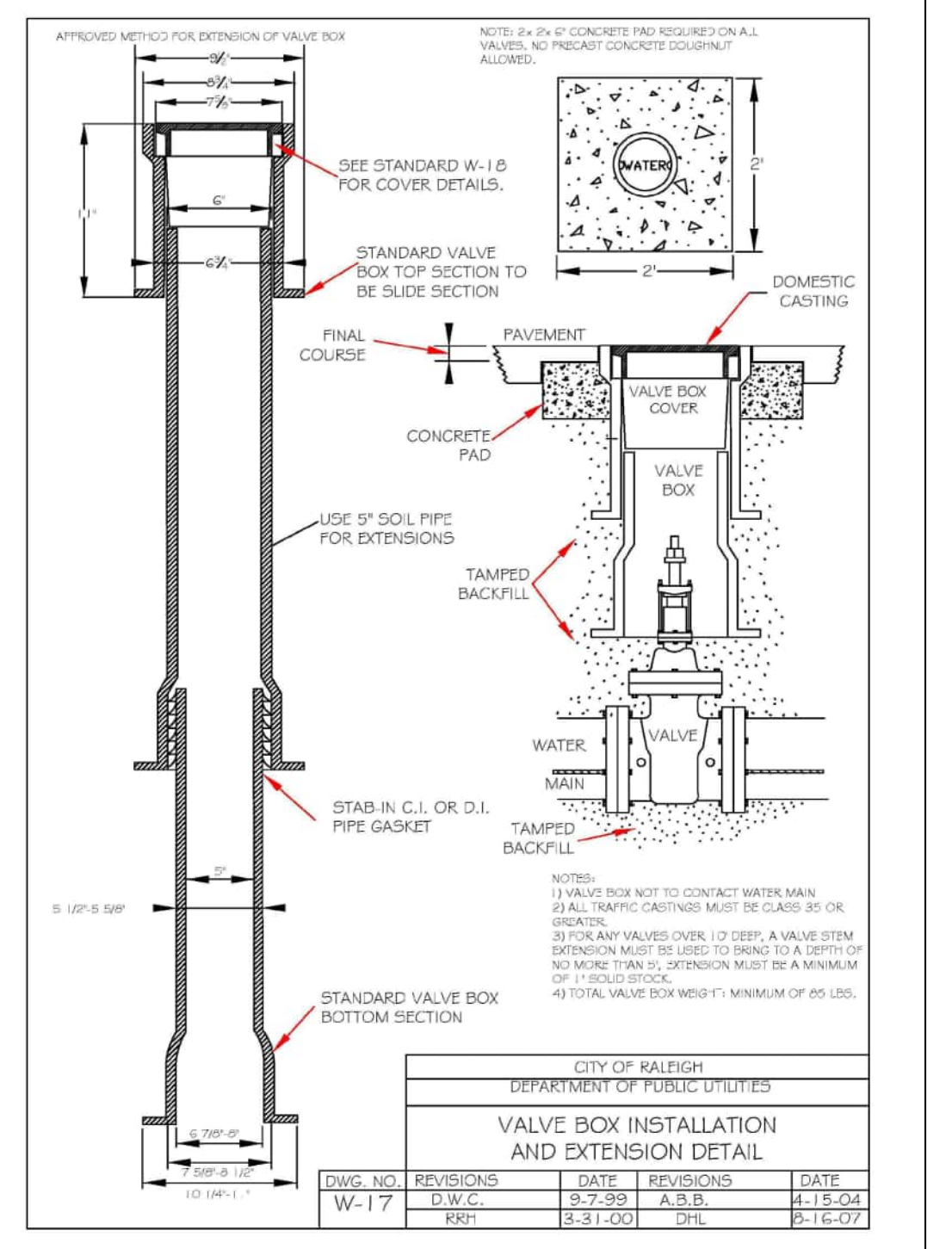
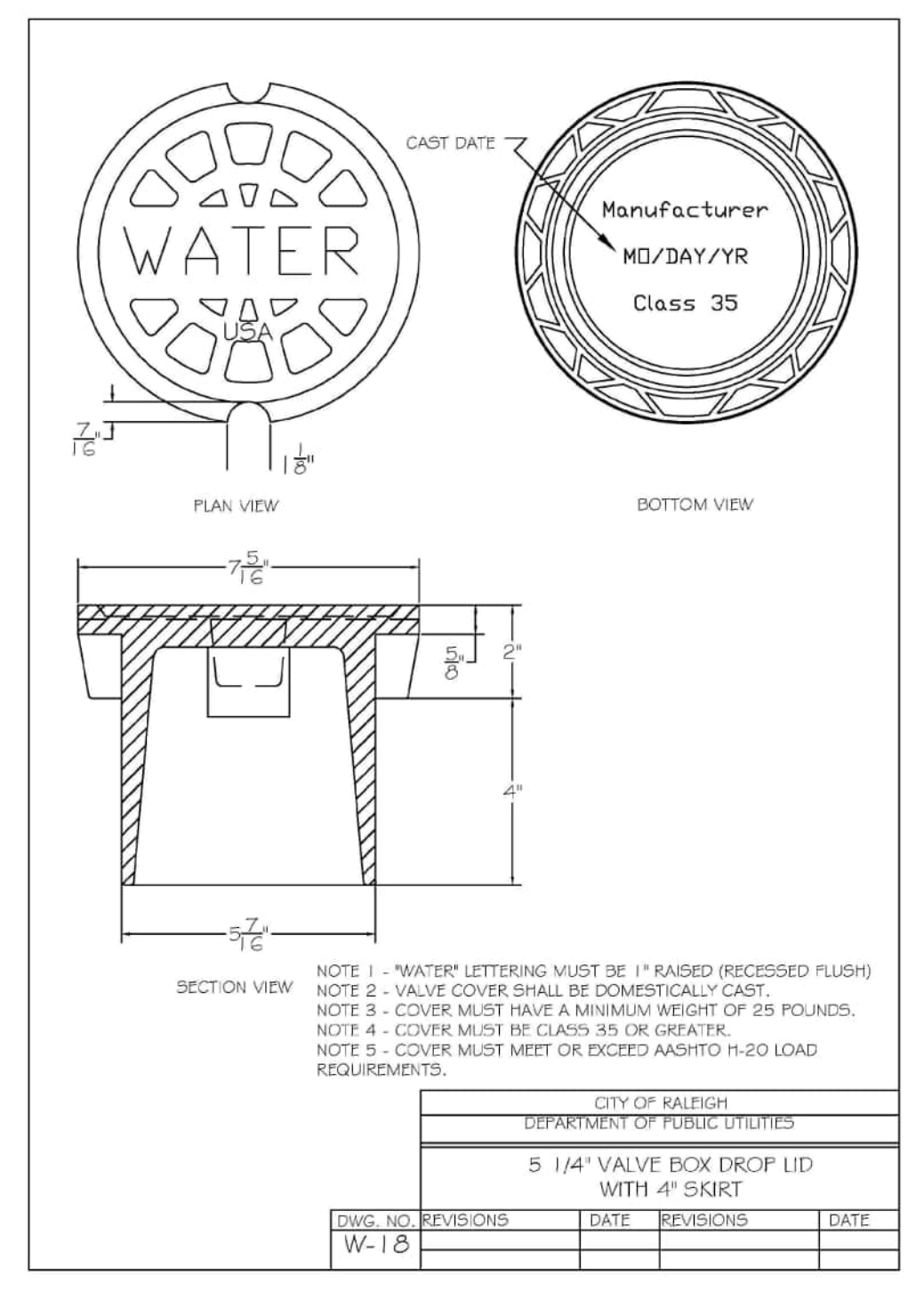
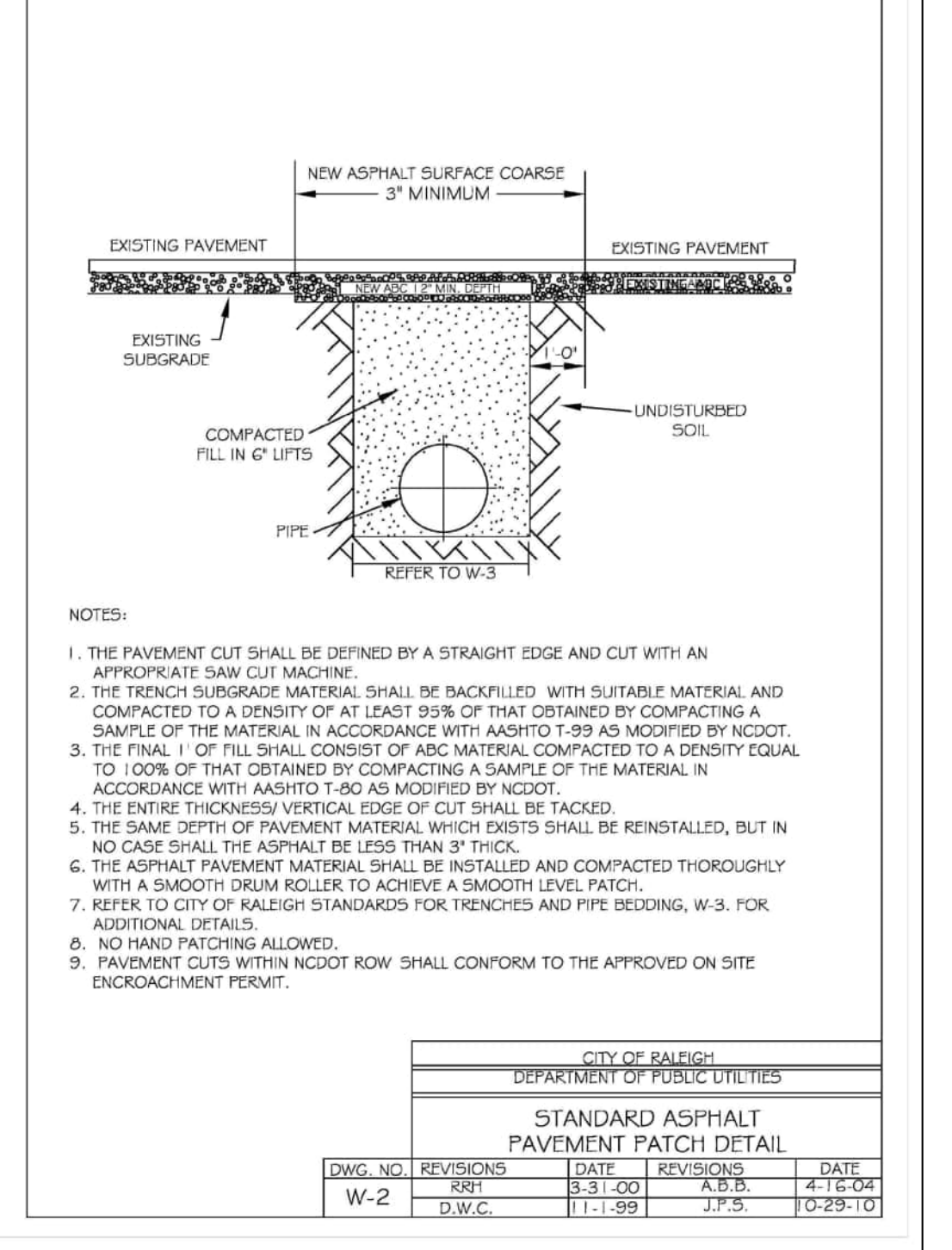
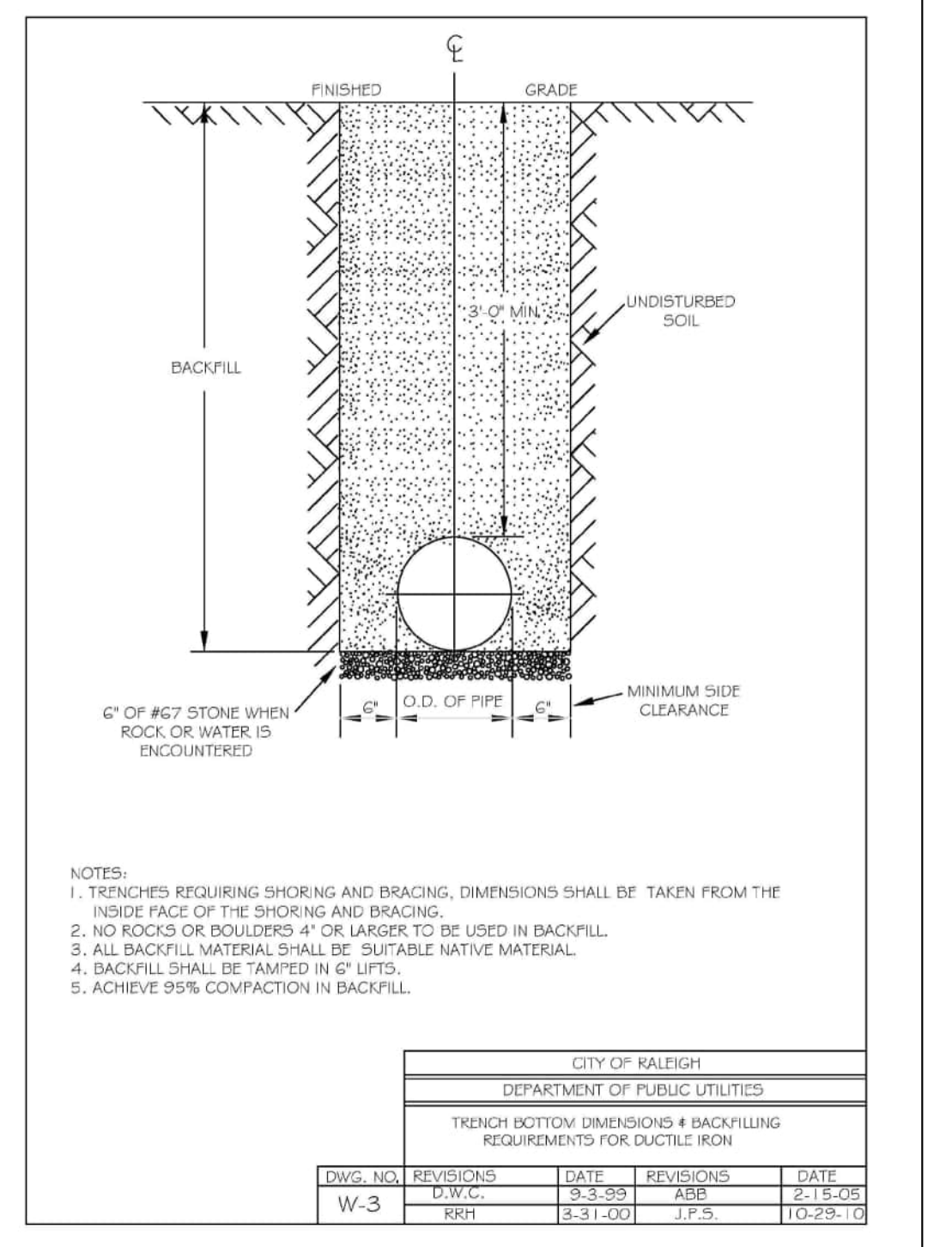
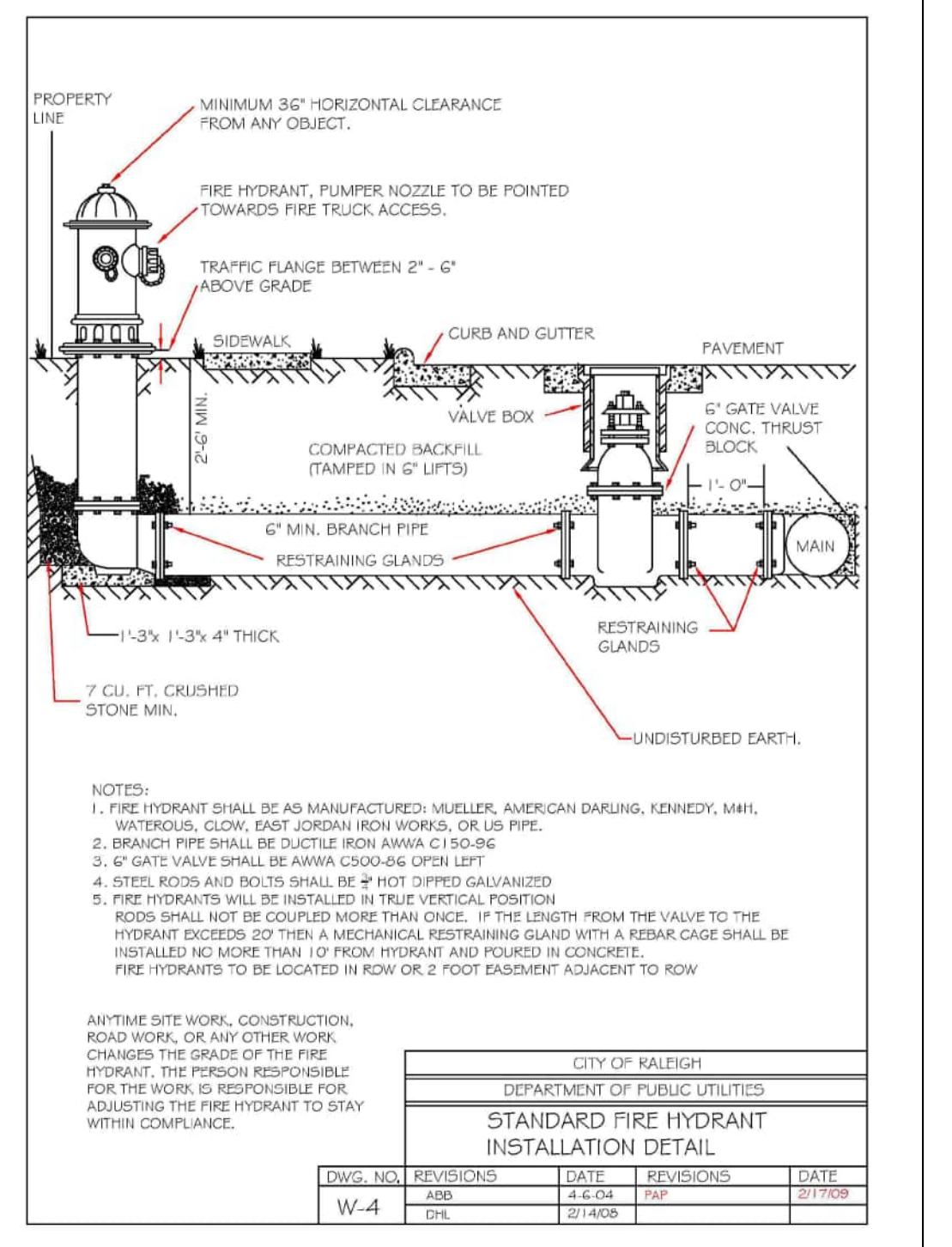
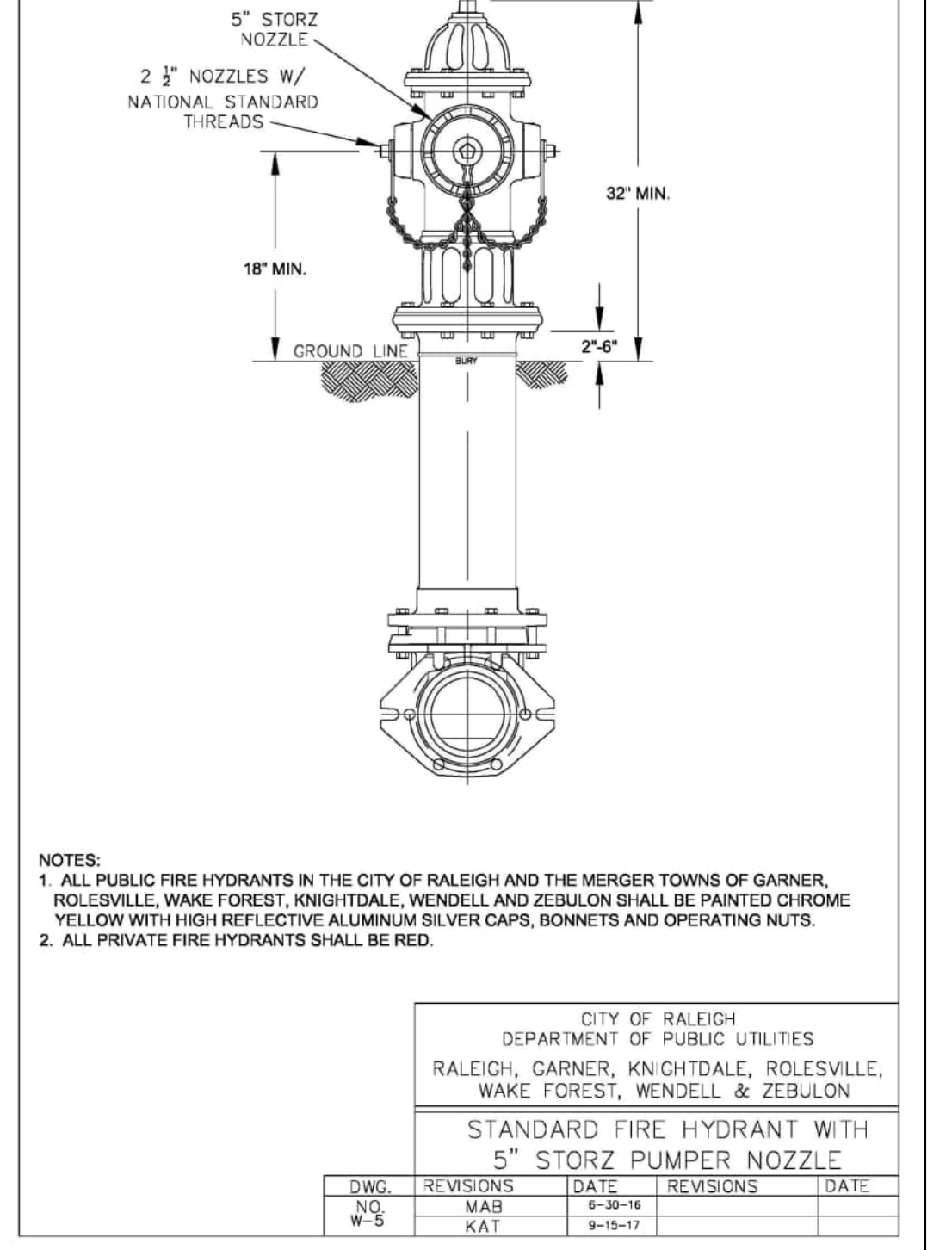
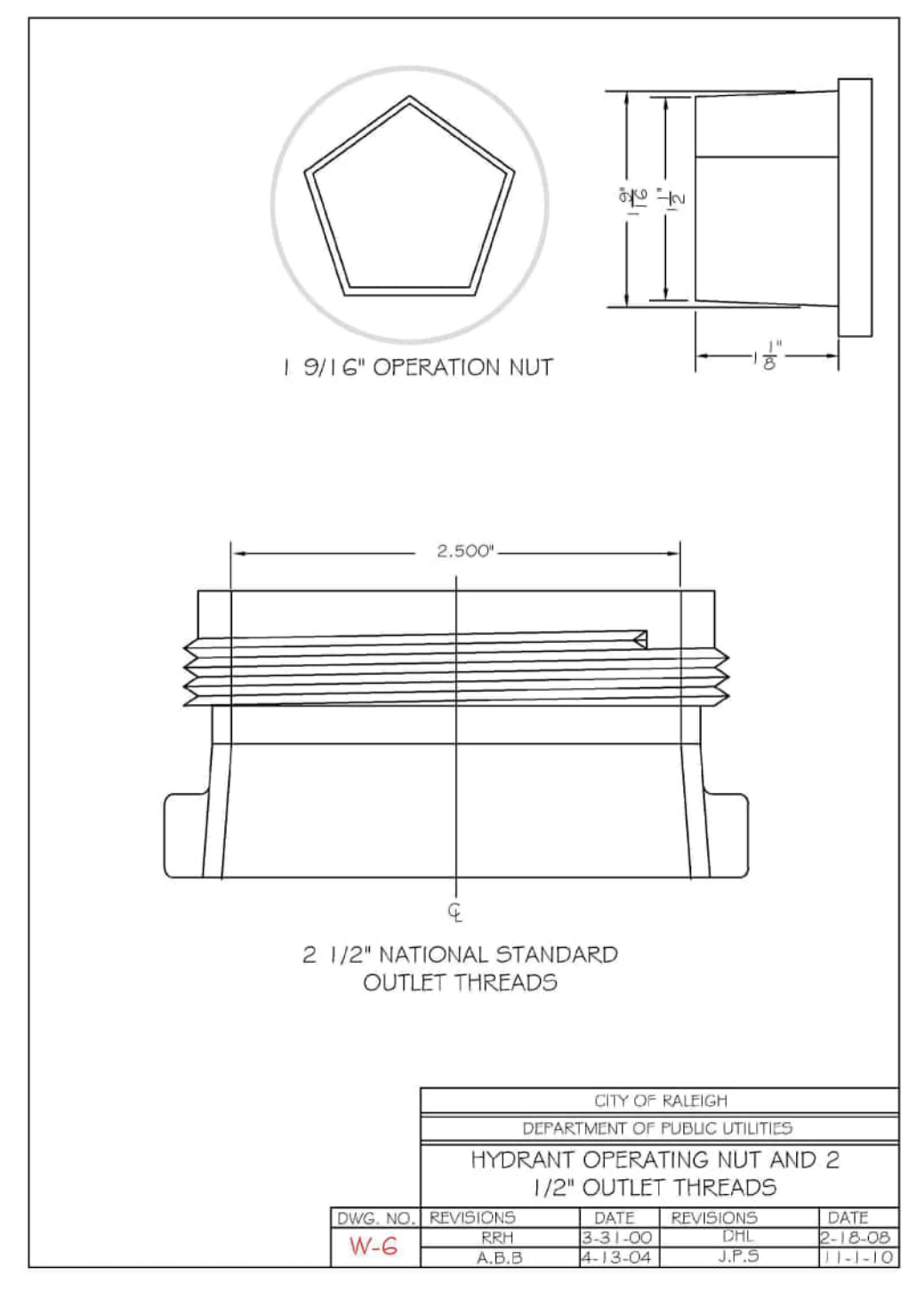
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| DATE        | 12.02.2024  |

**SHEET**

**STORM DRAINAGE**  
**DETAILS**  
**C8.03**





**REVISIONS**

| NO. | DATE |
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**PLAN INFORMATION**

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| DATE        | 12.02.2024  |

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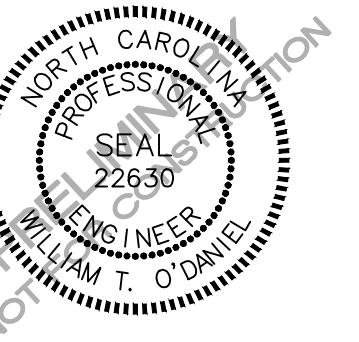
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PEARCE FARM - PHASES 1-3  
CONSTRUCTION DRAWINGS - PACKAGE 1

BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



REVISIONS

NO. DATE

PLAN INFORMATION

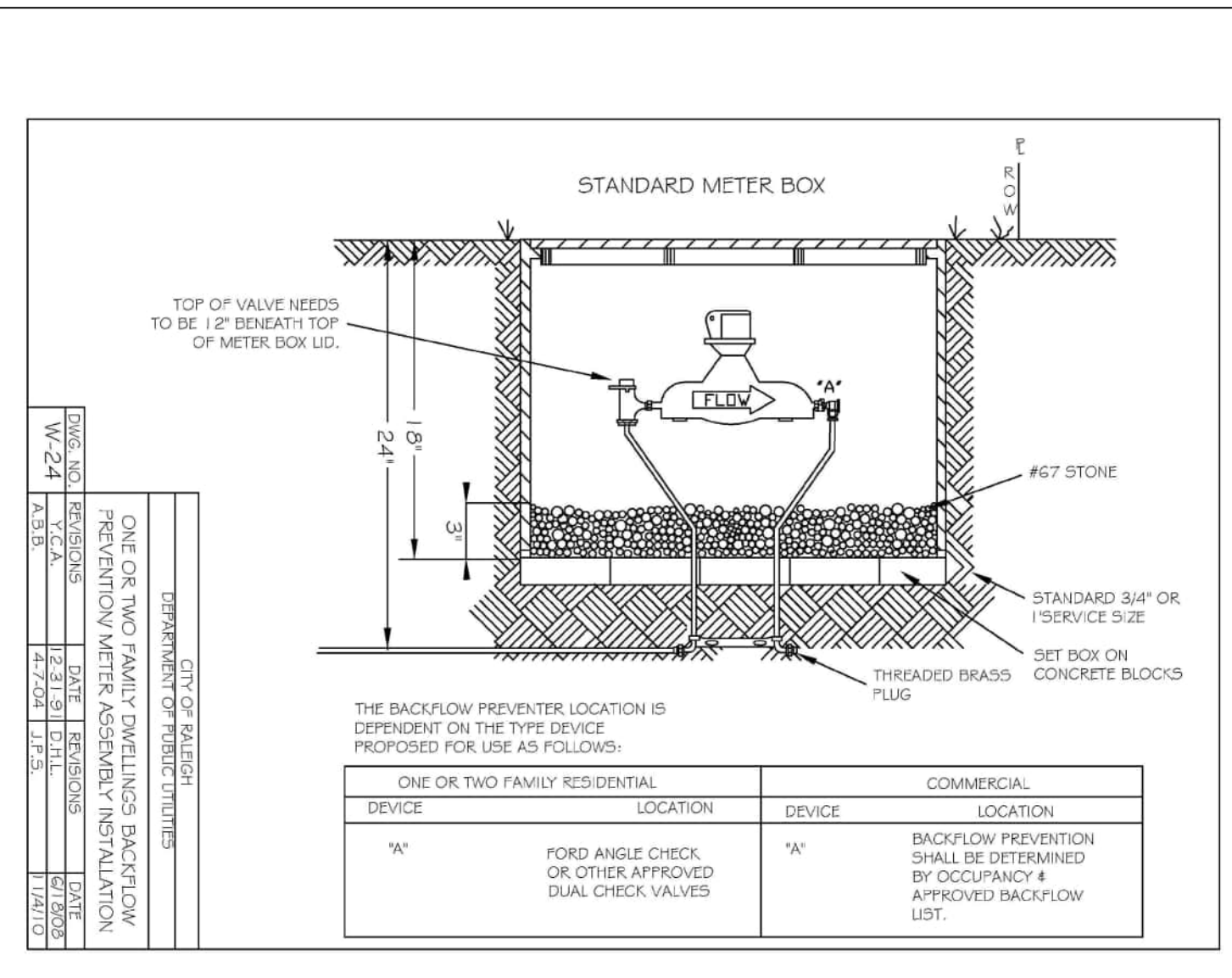
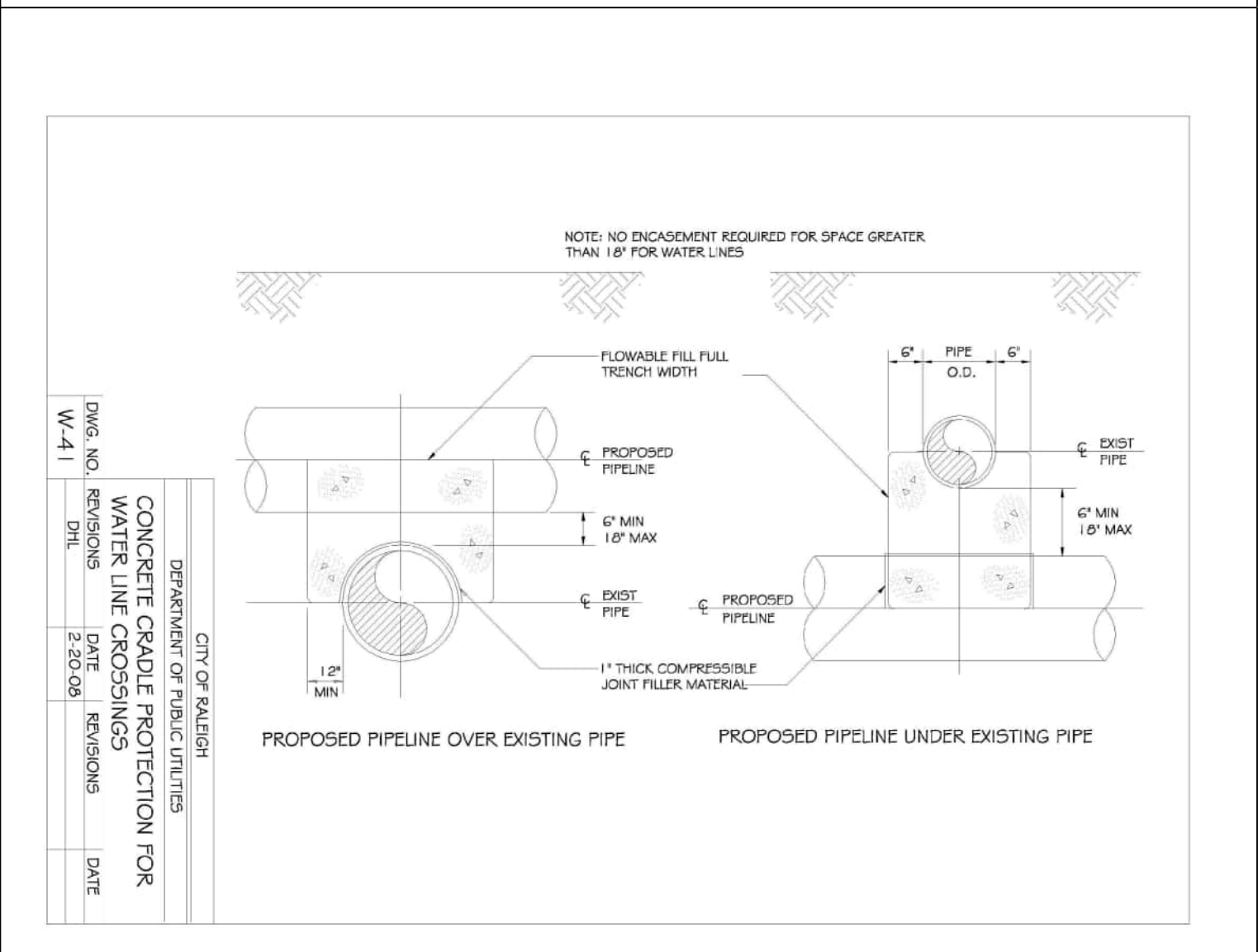
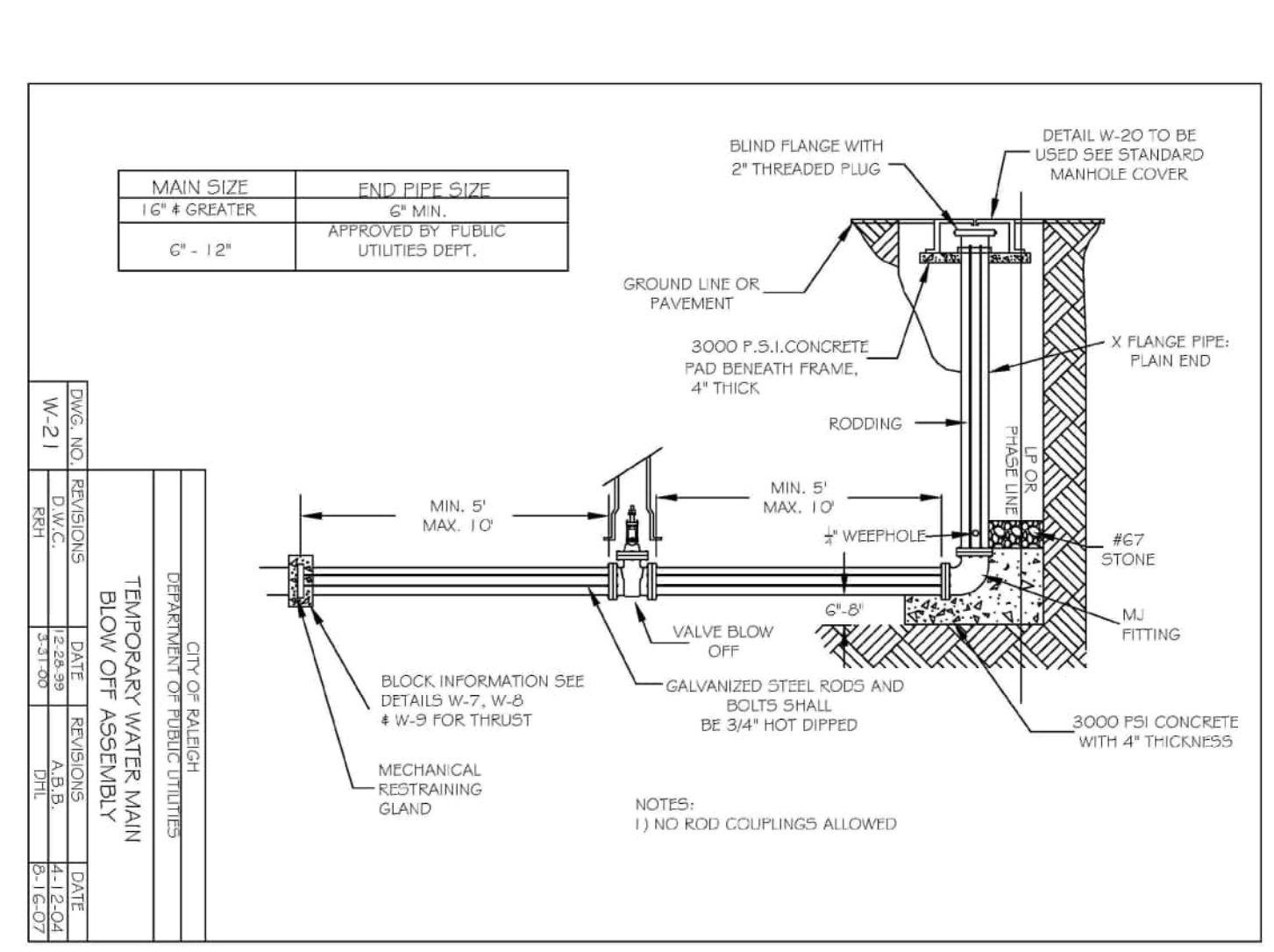
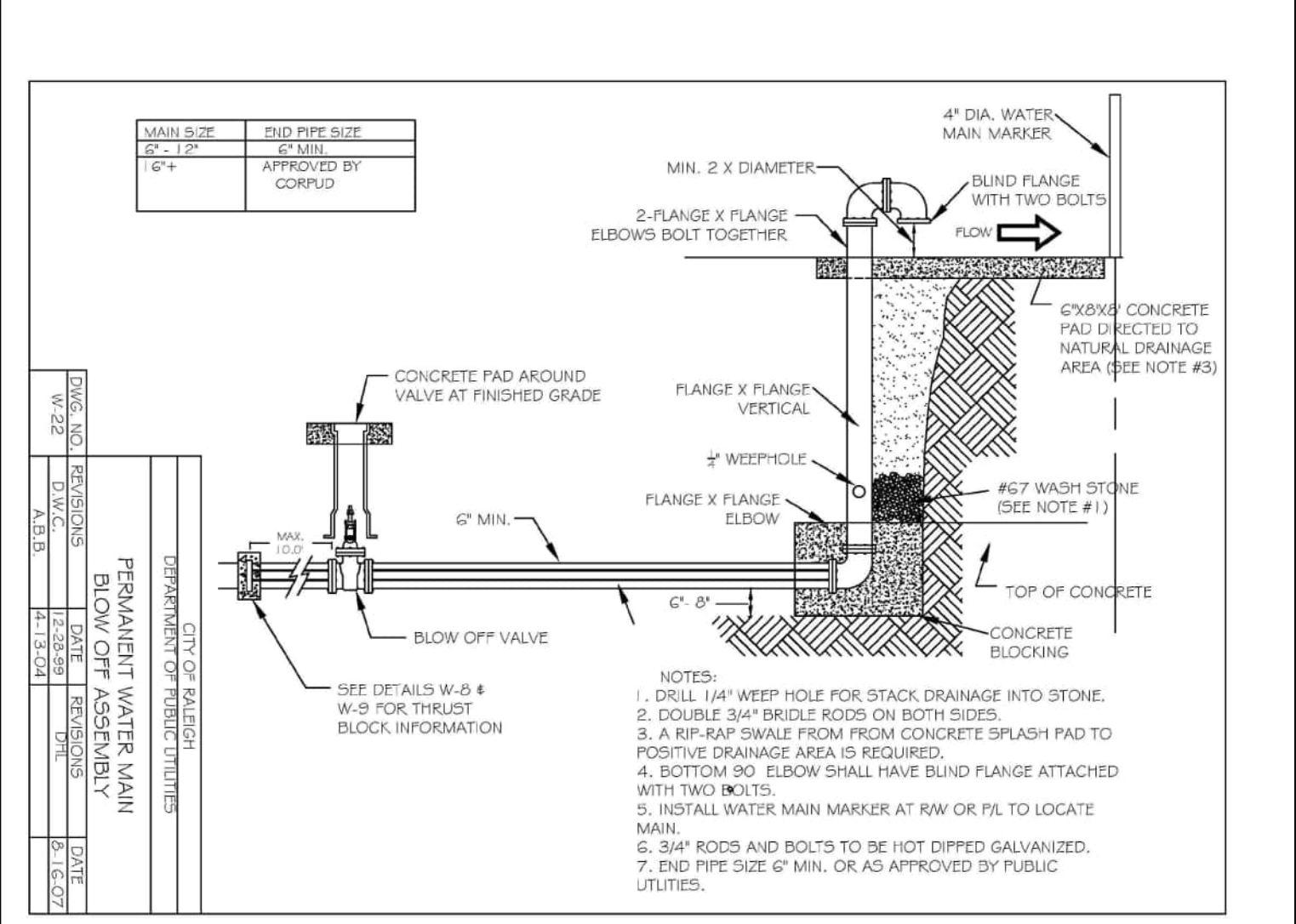
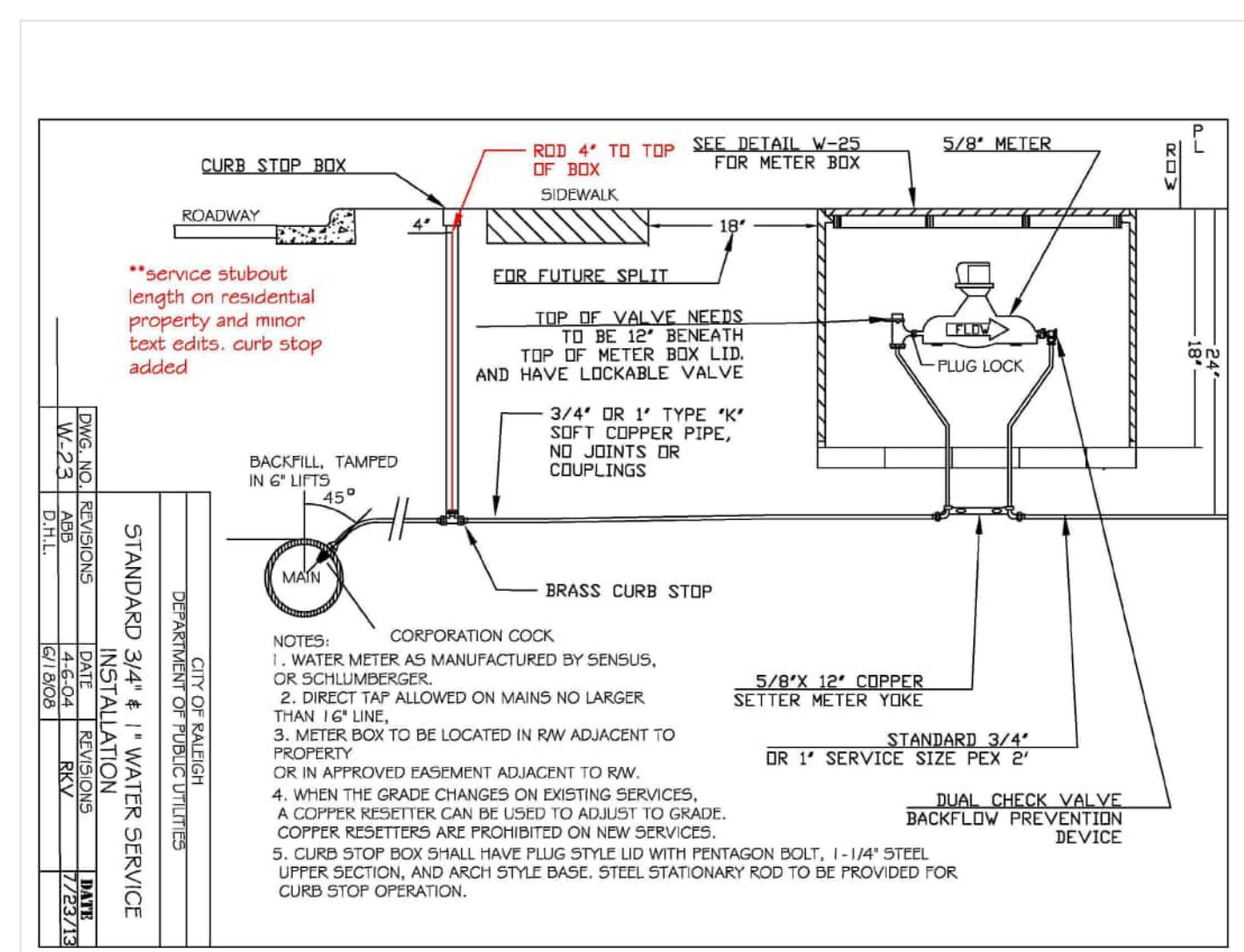
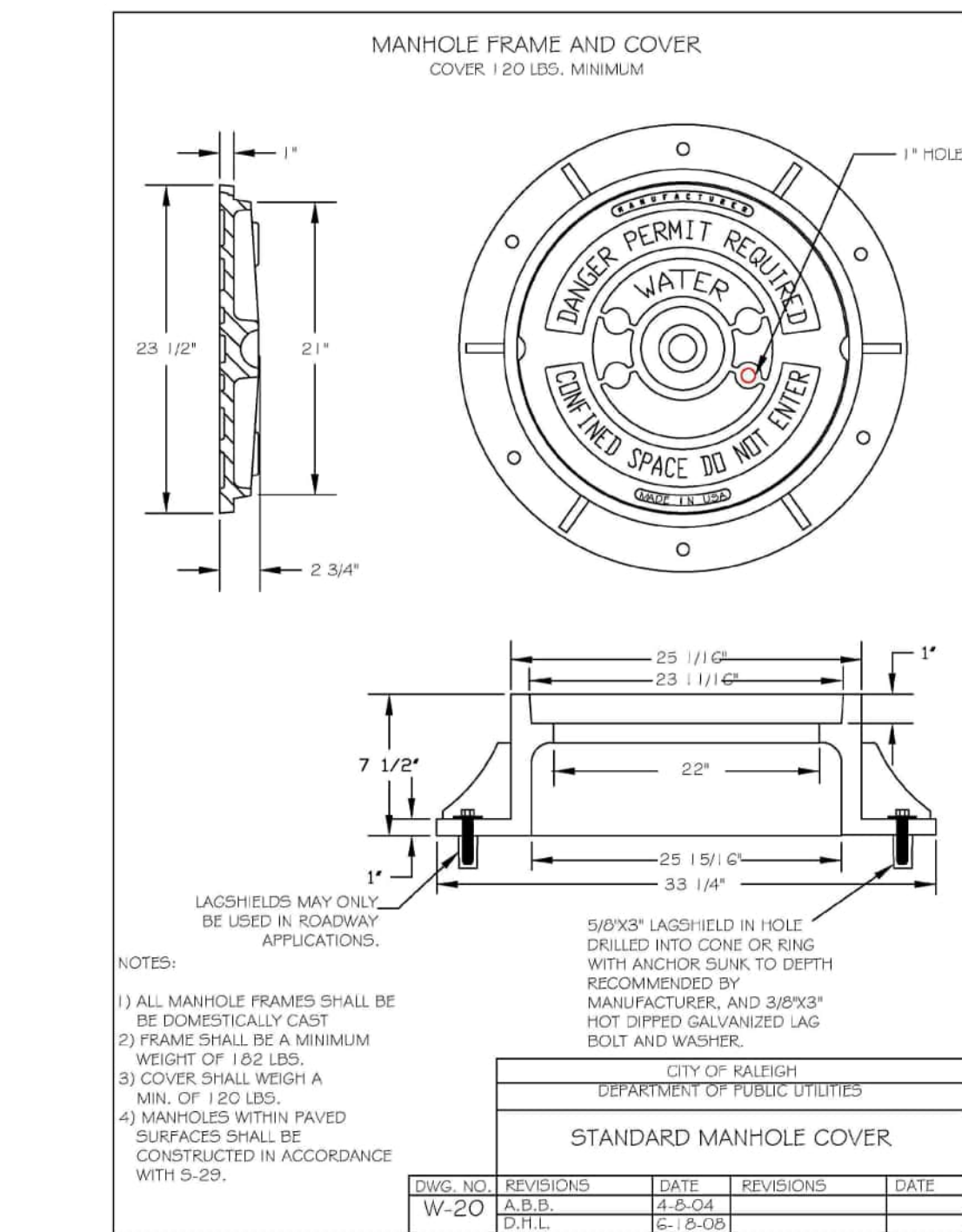
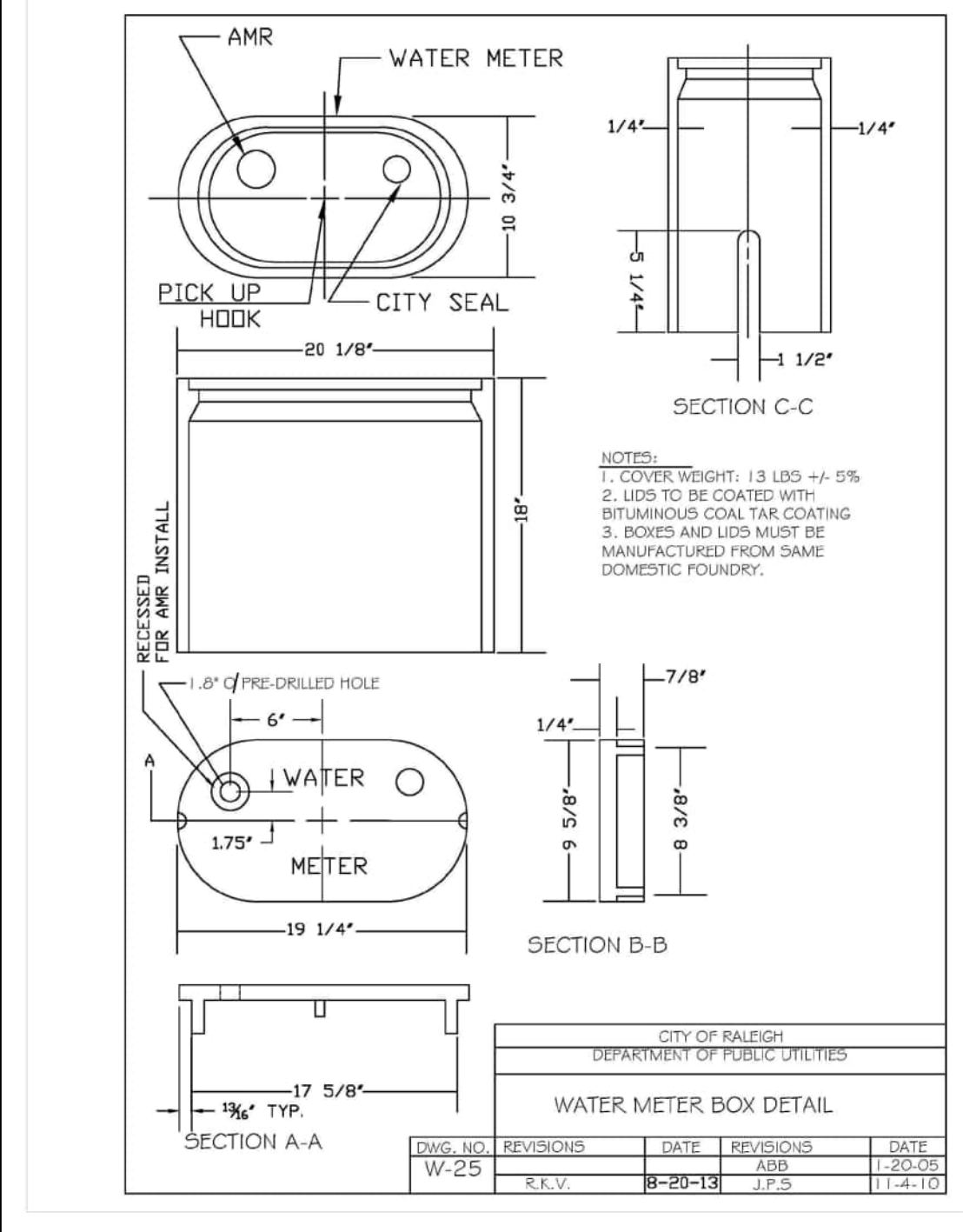
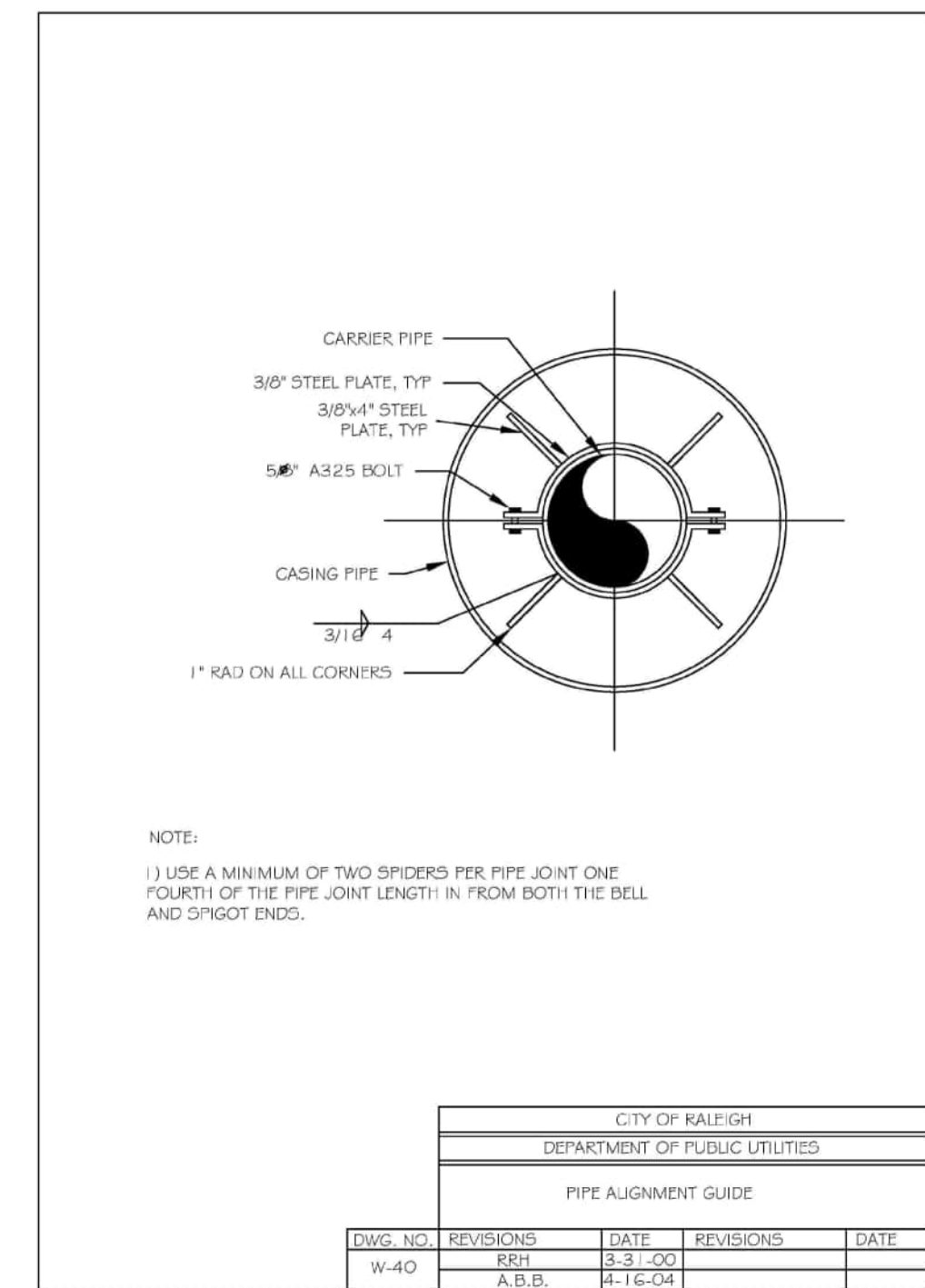
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DRAWN BY .  
SCALE N.T.S.  
DATE 12.02.2024

SHEET

WATER  
DETAILS

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FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



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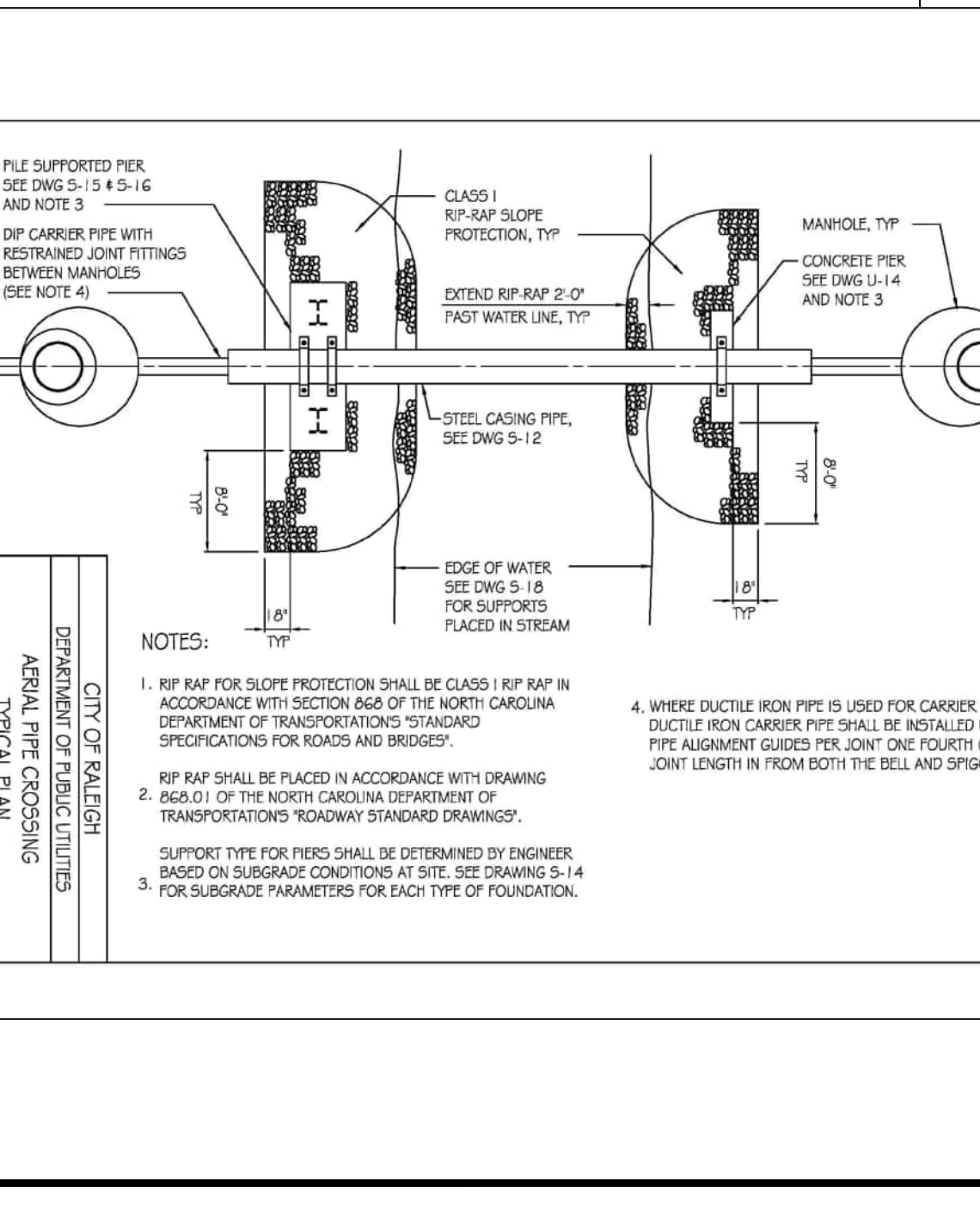
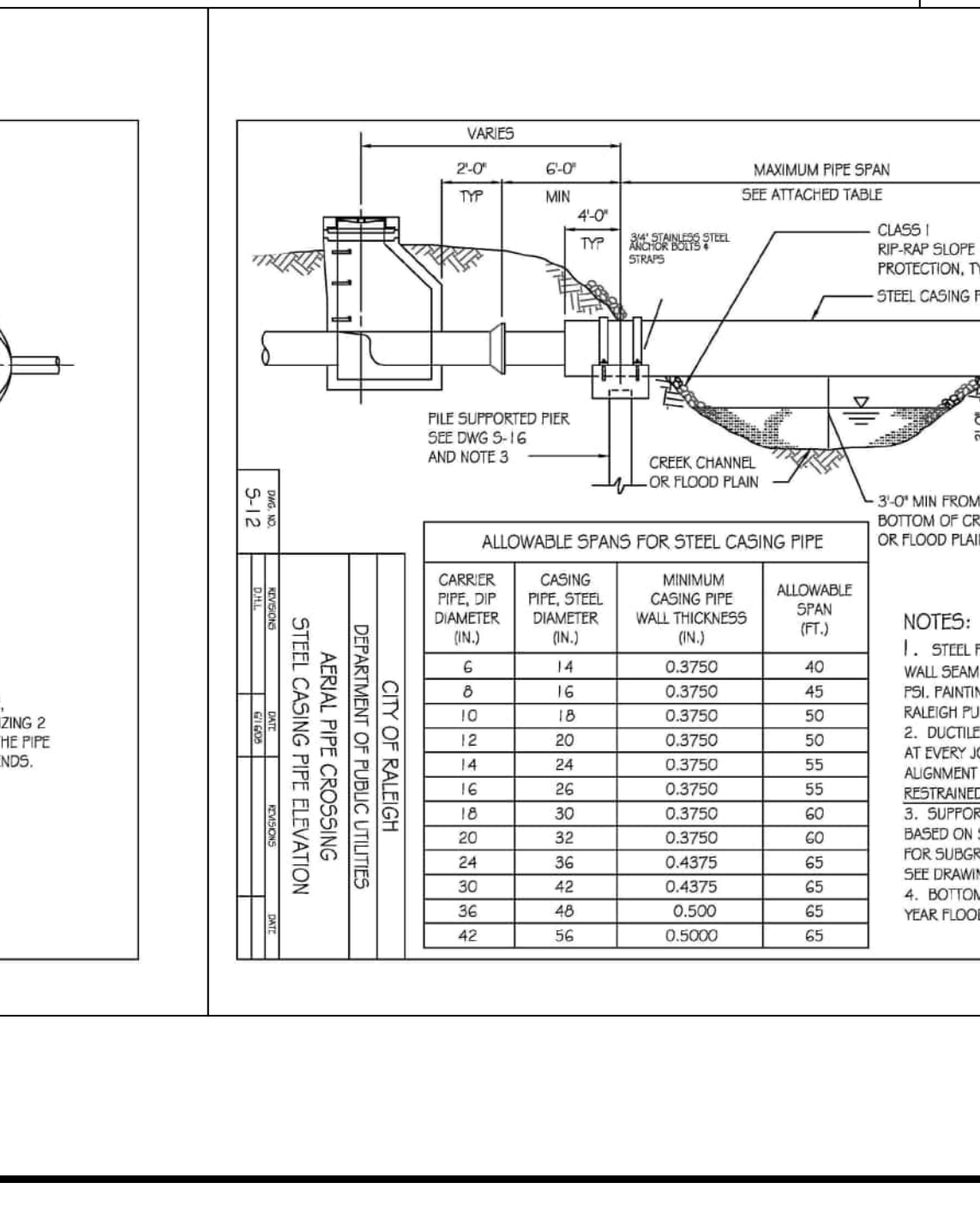
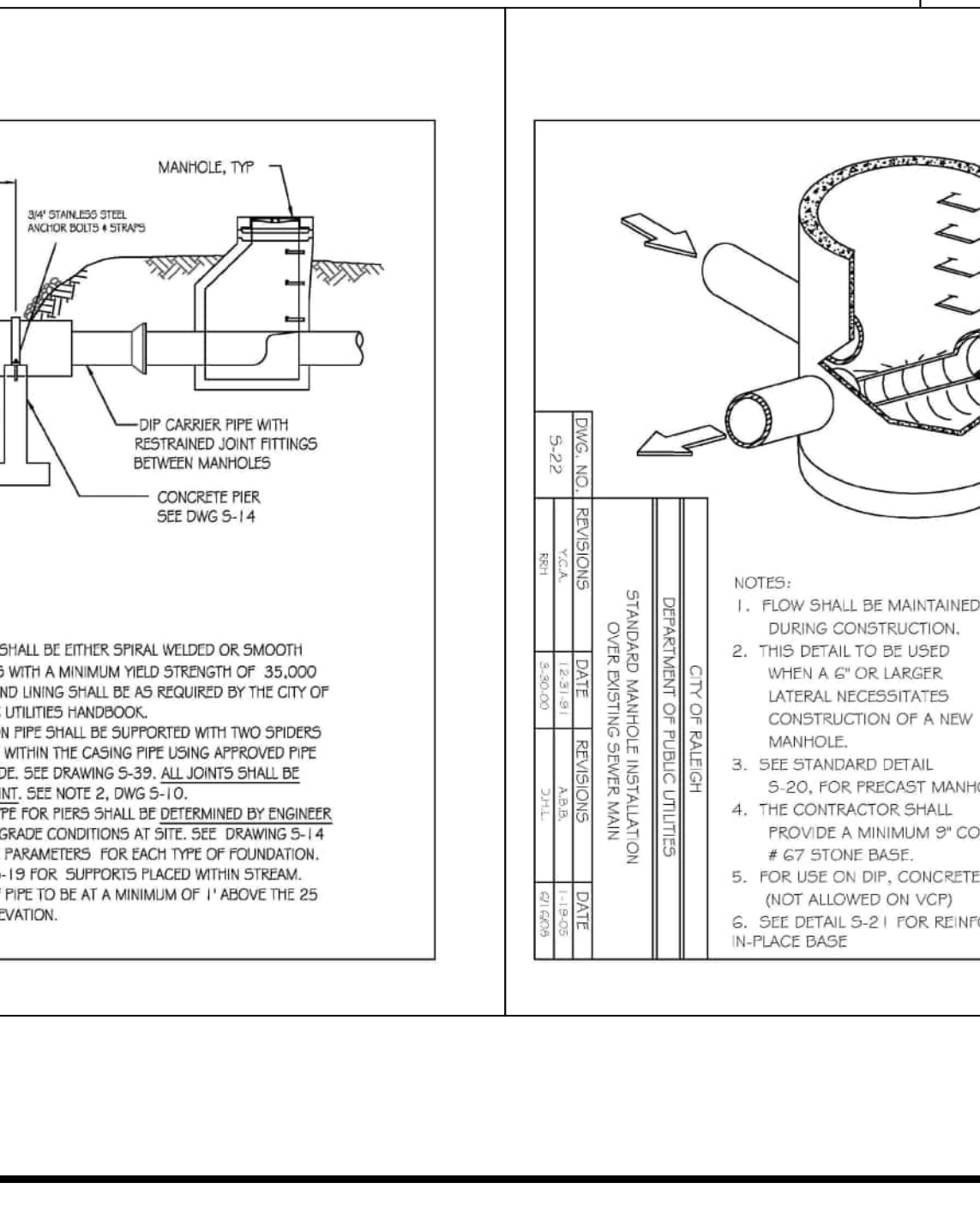
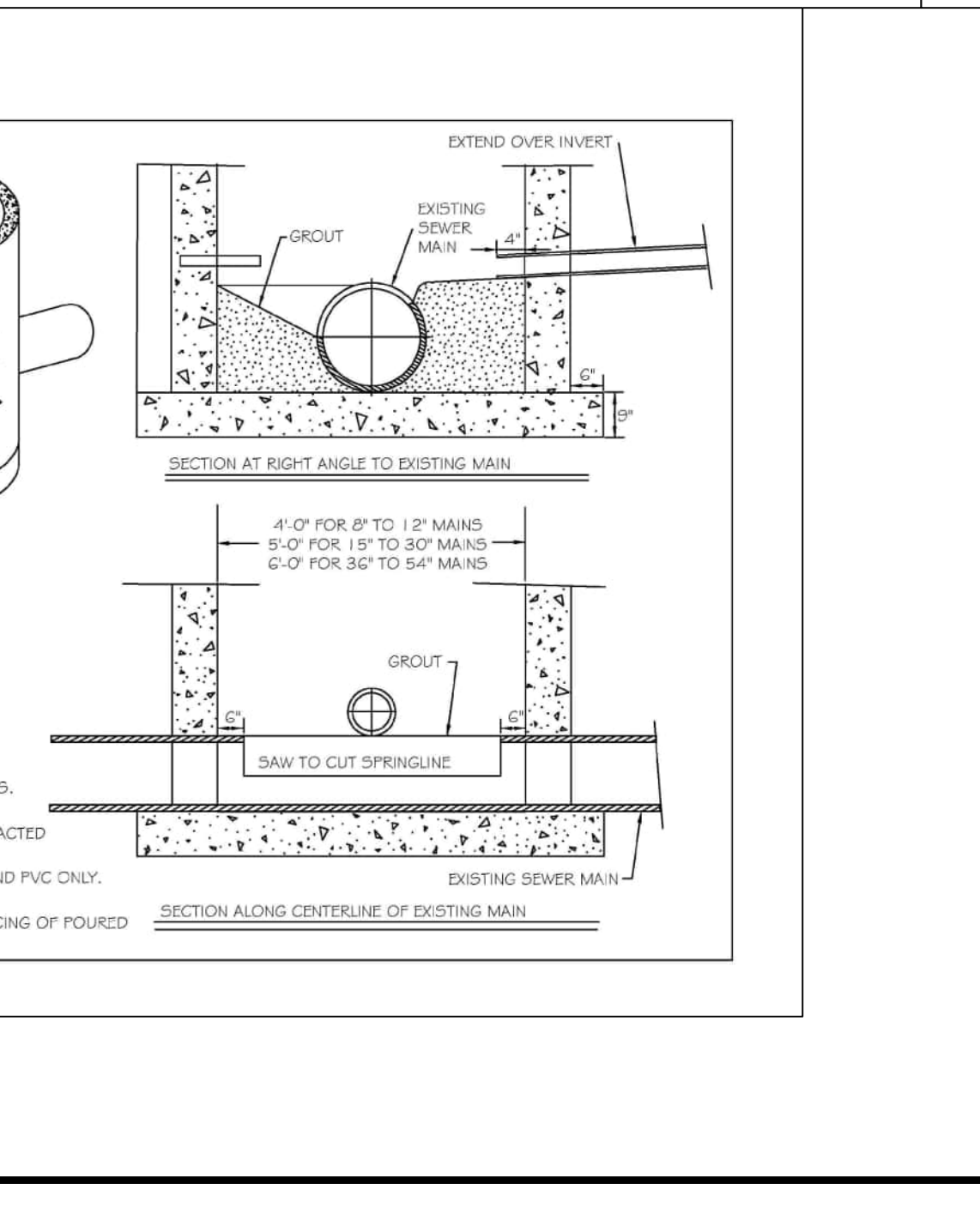
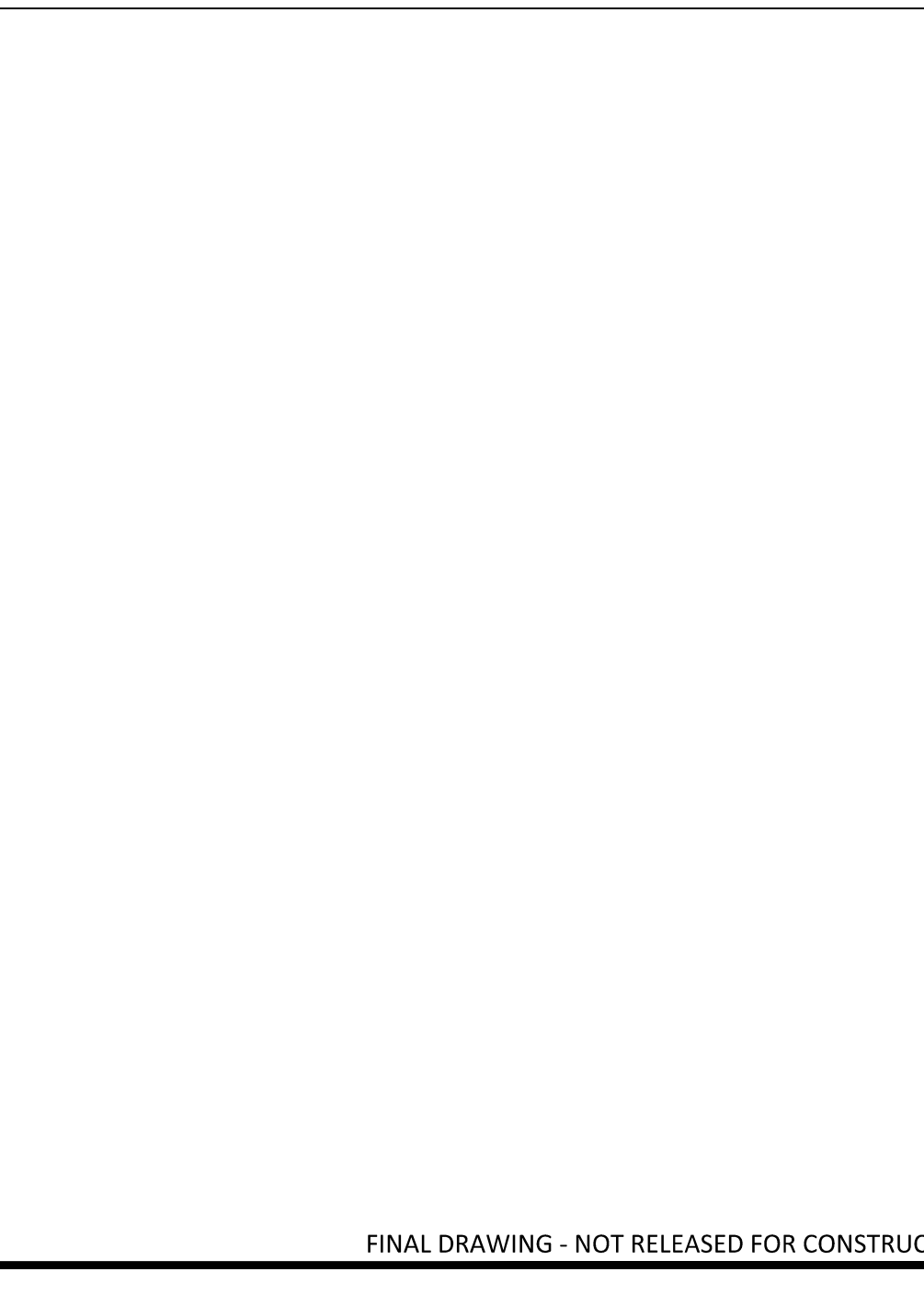
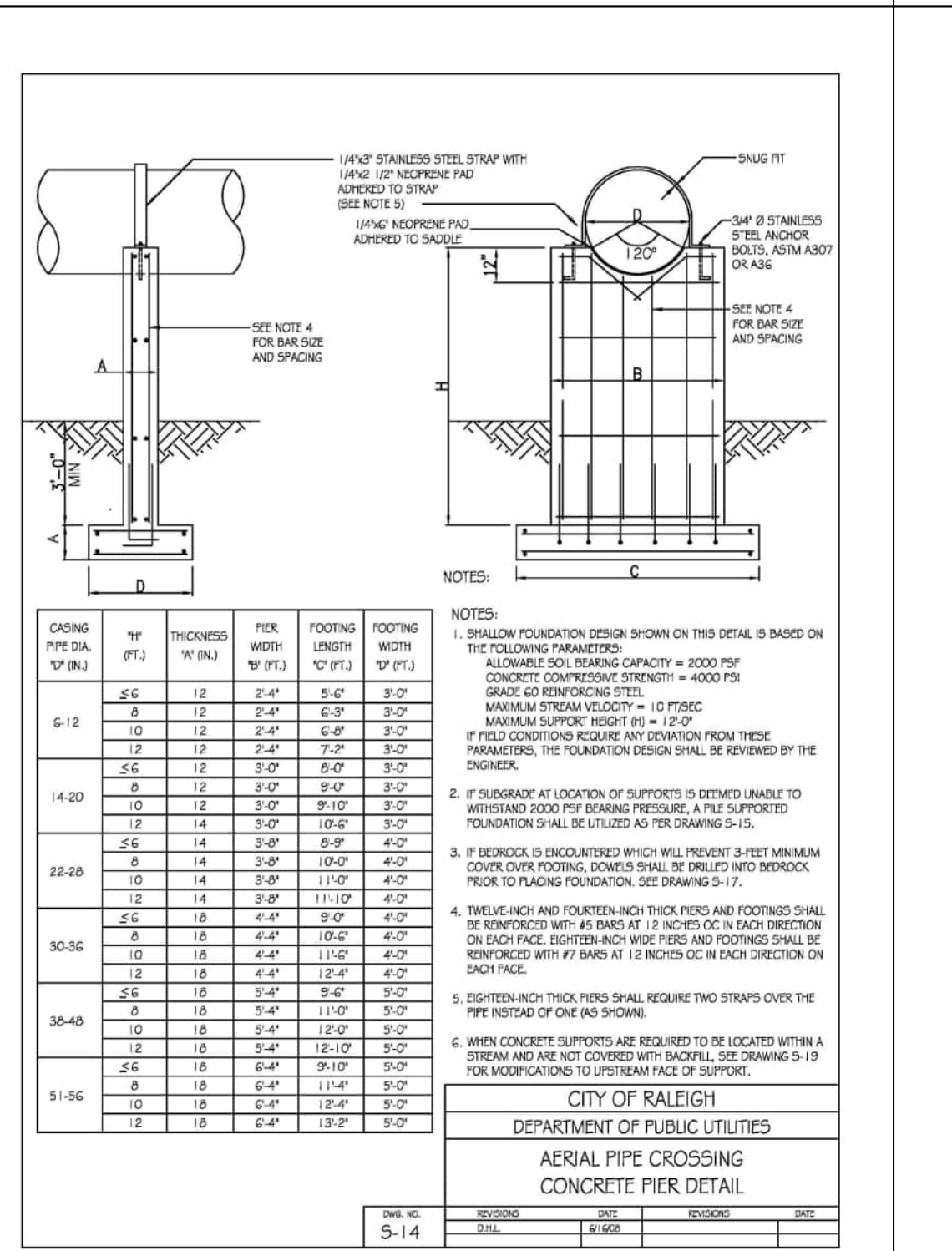
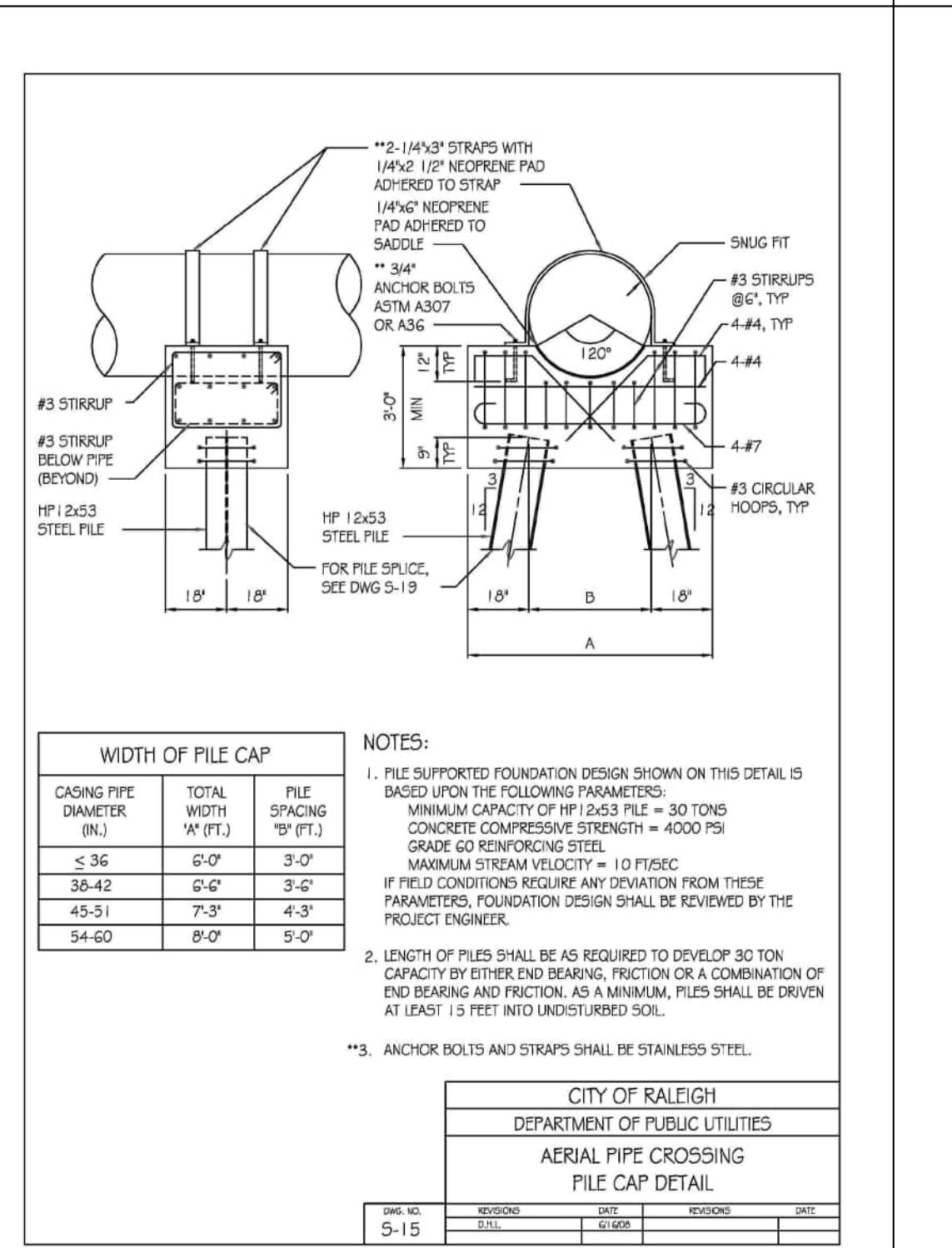
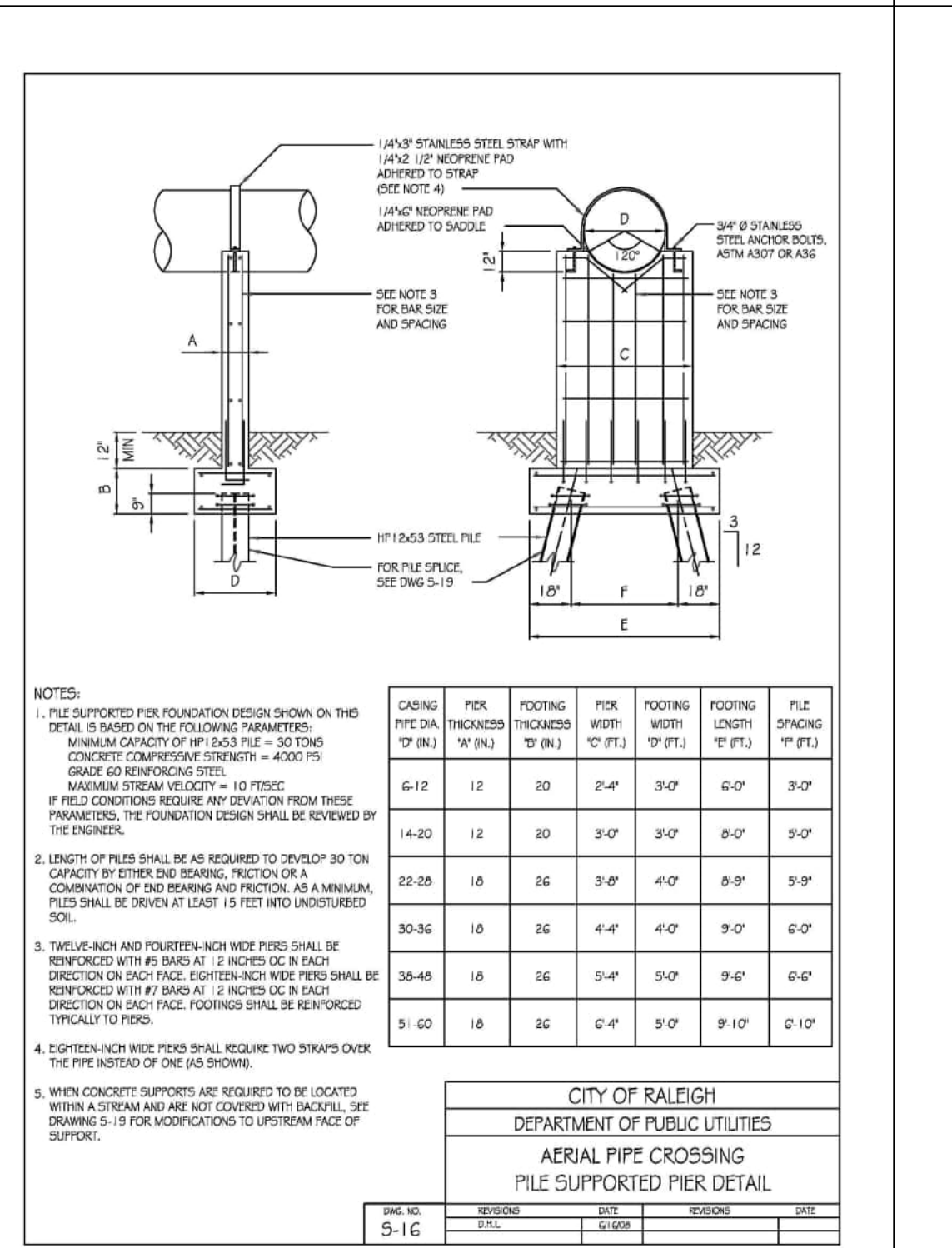
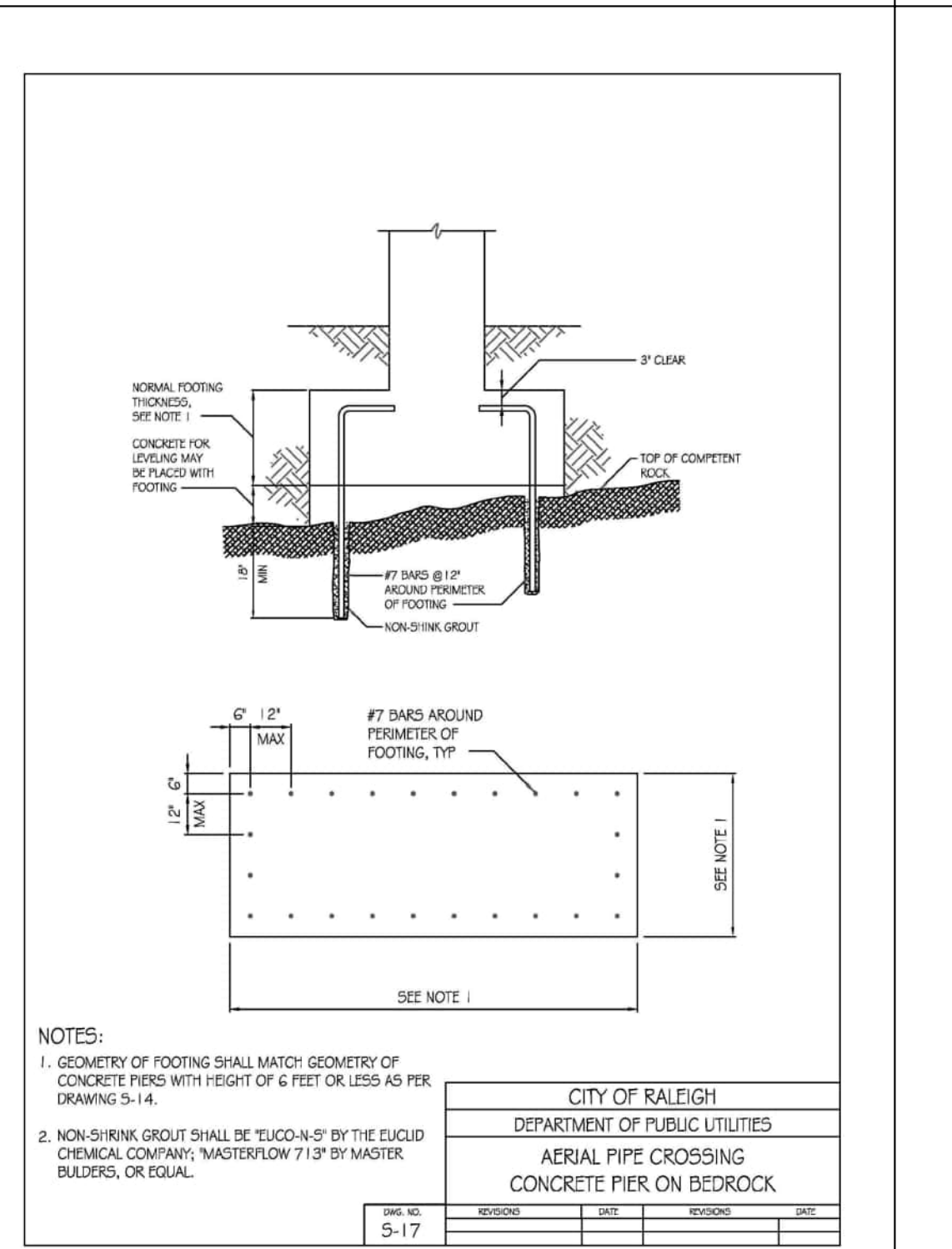
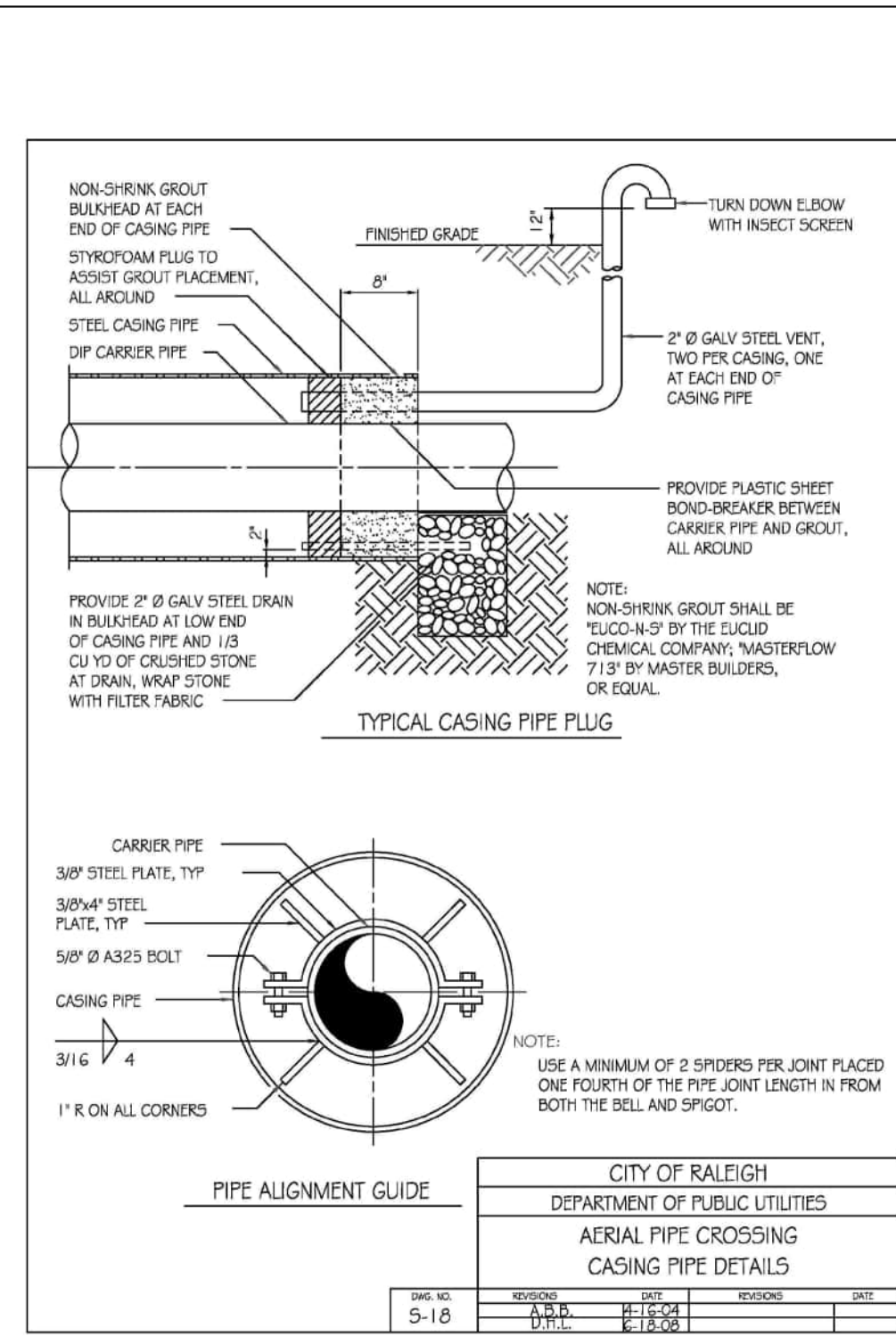
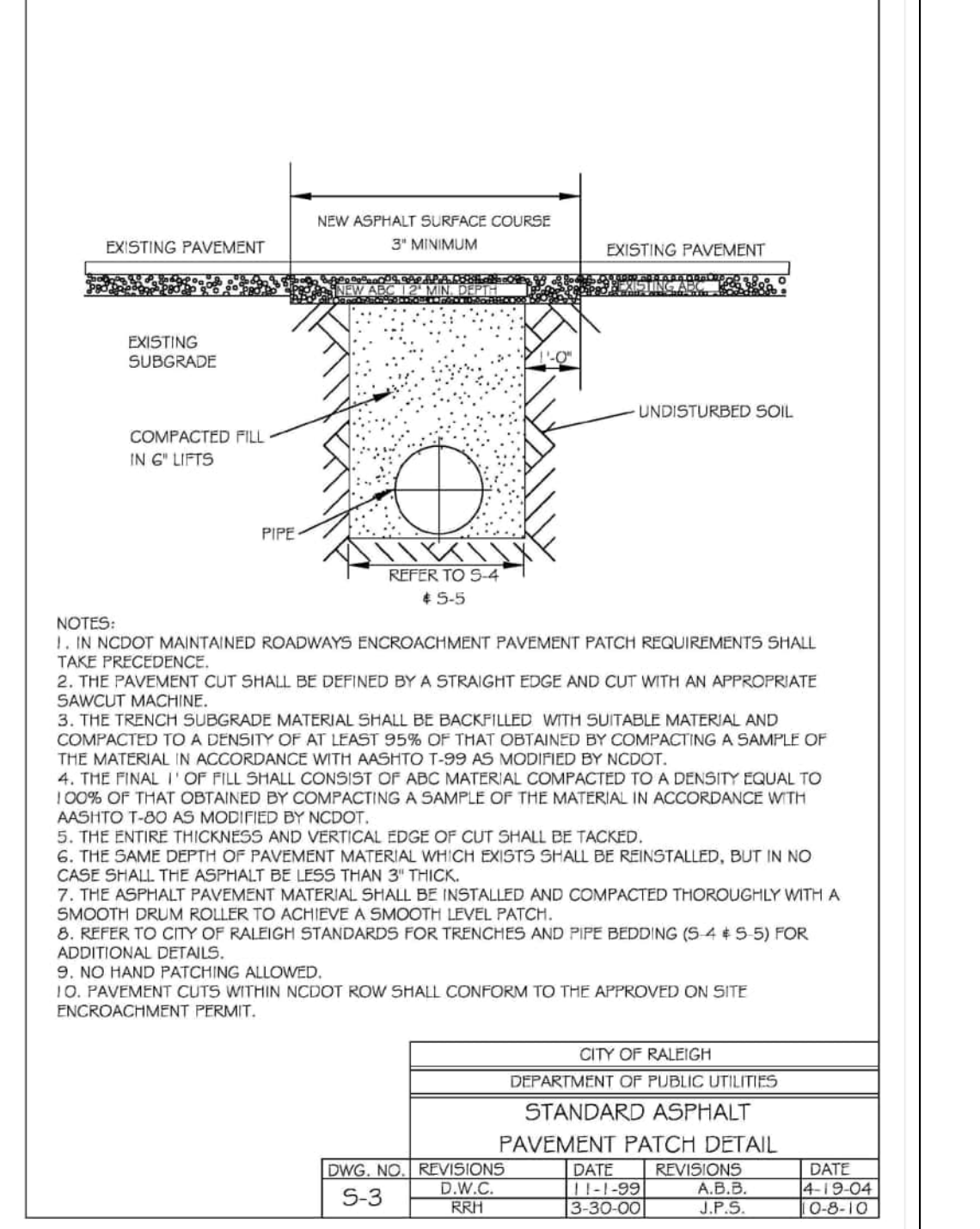
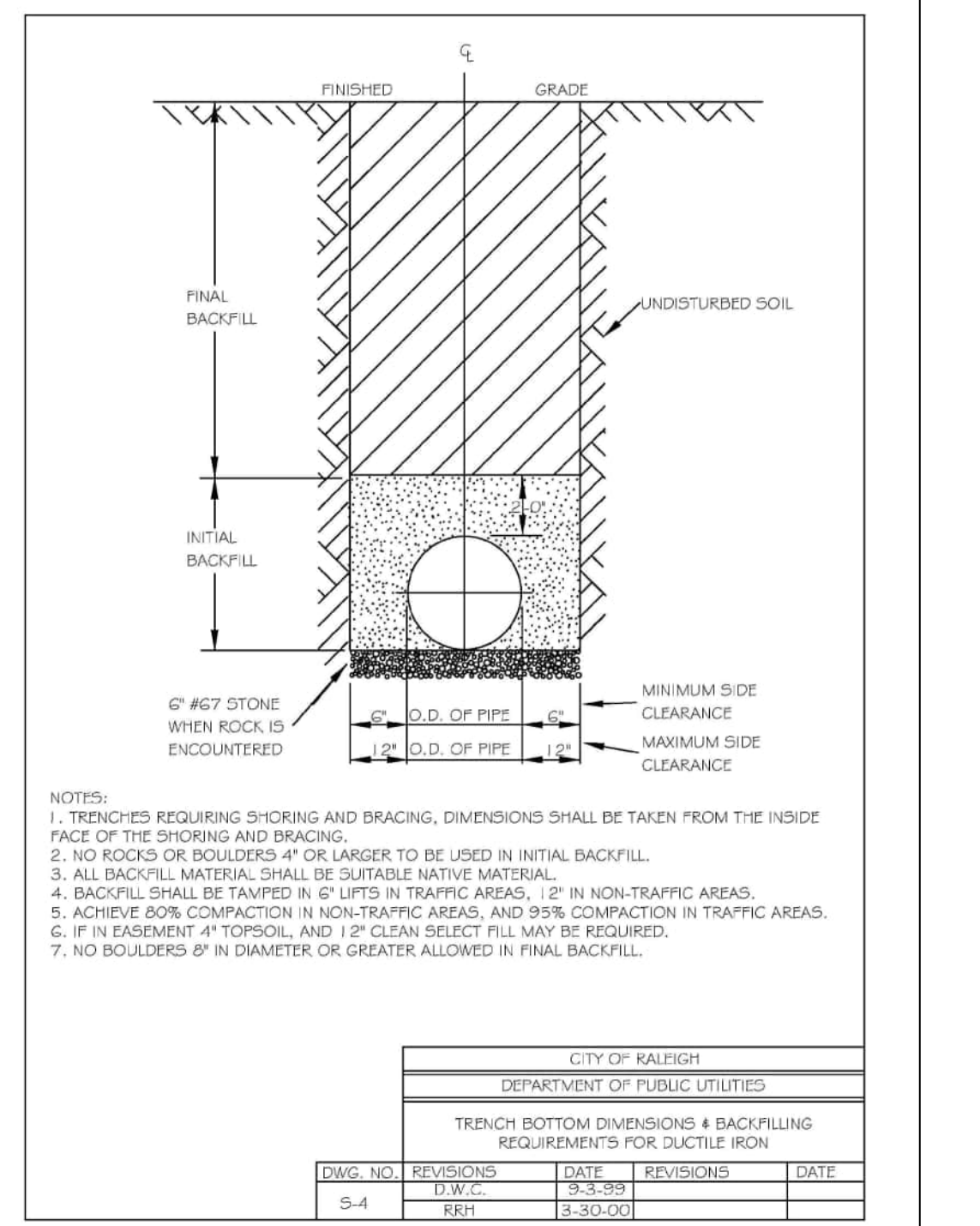
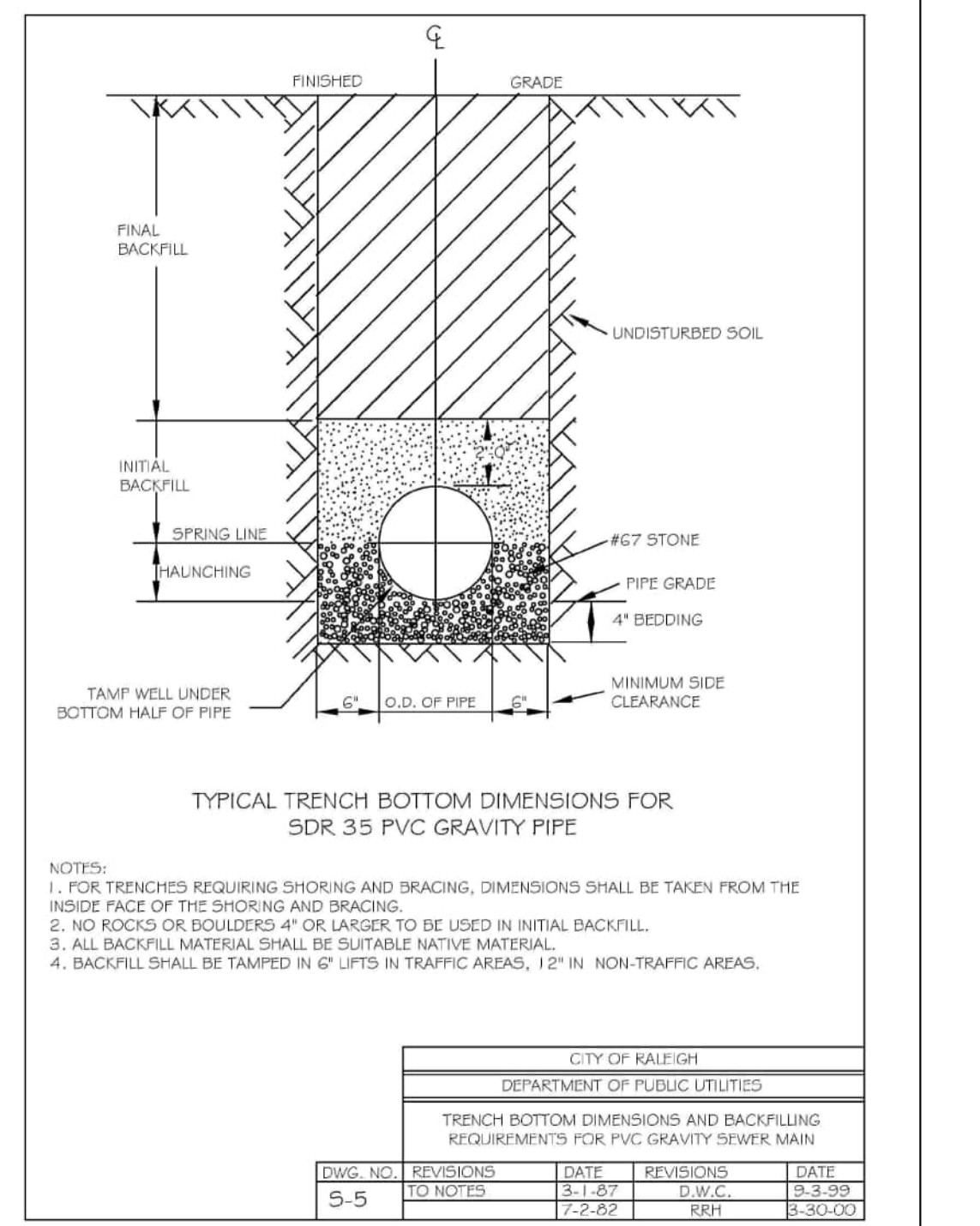
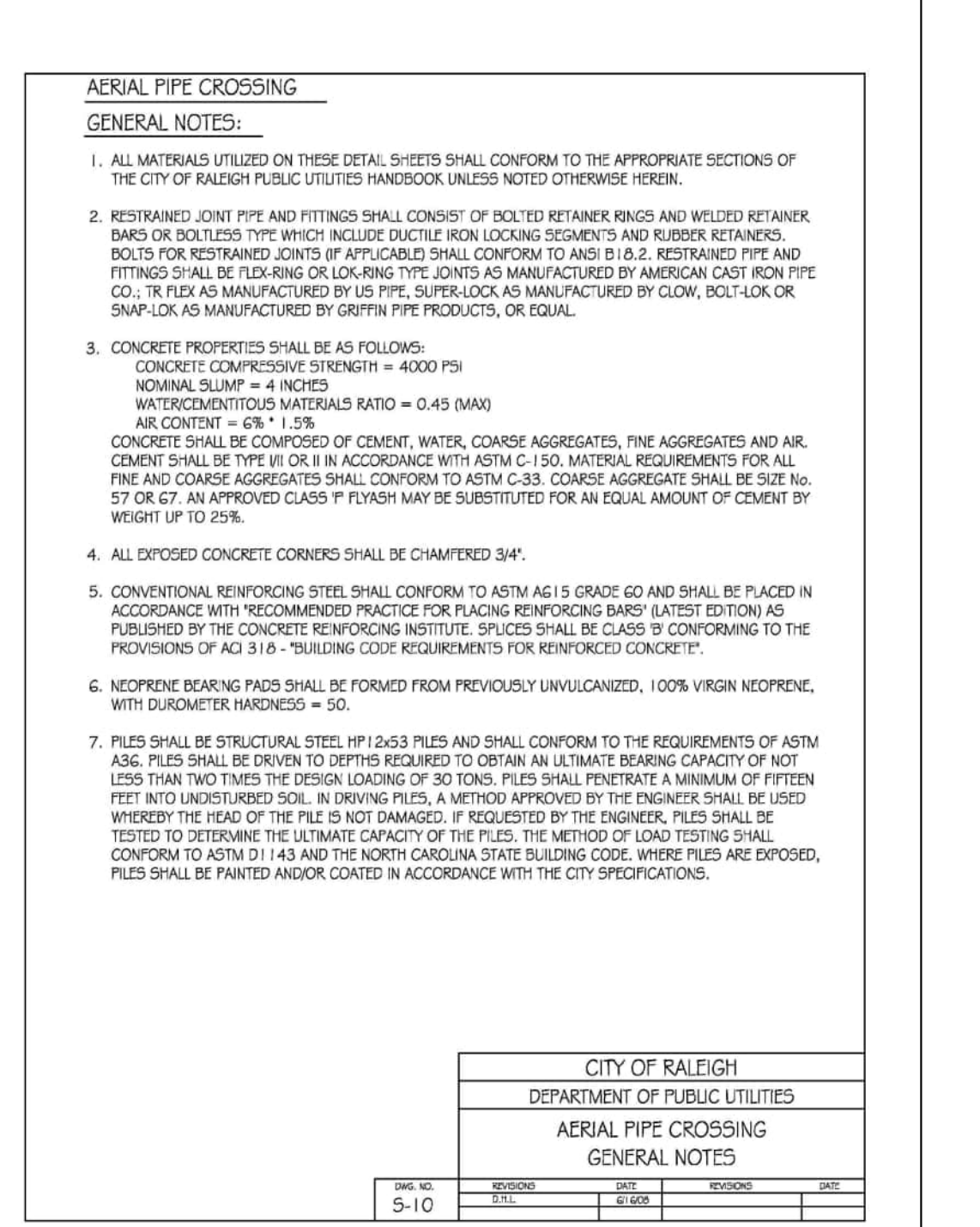
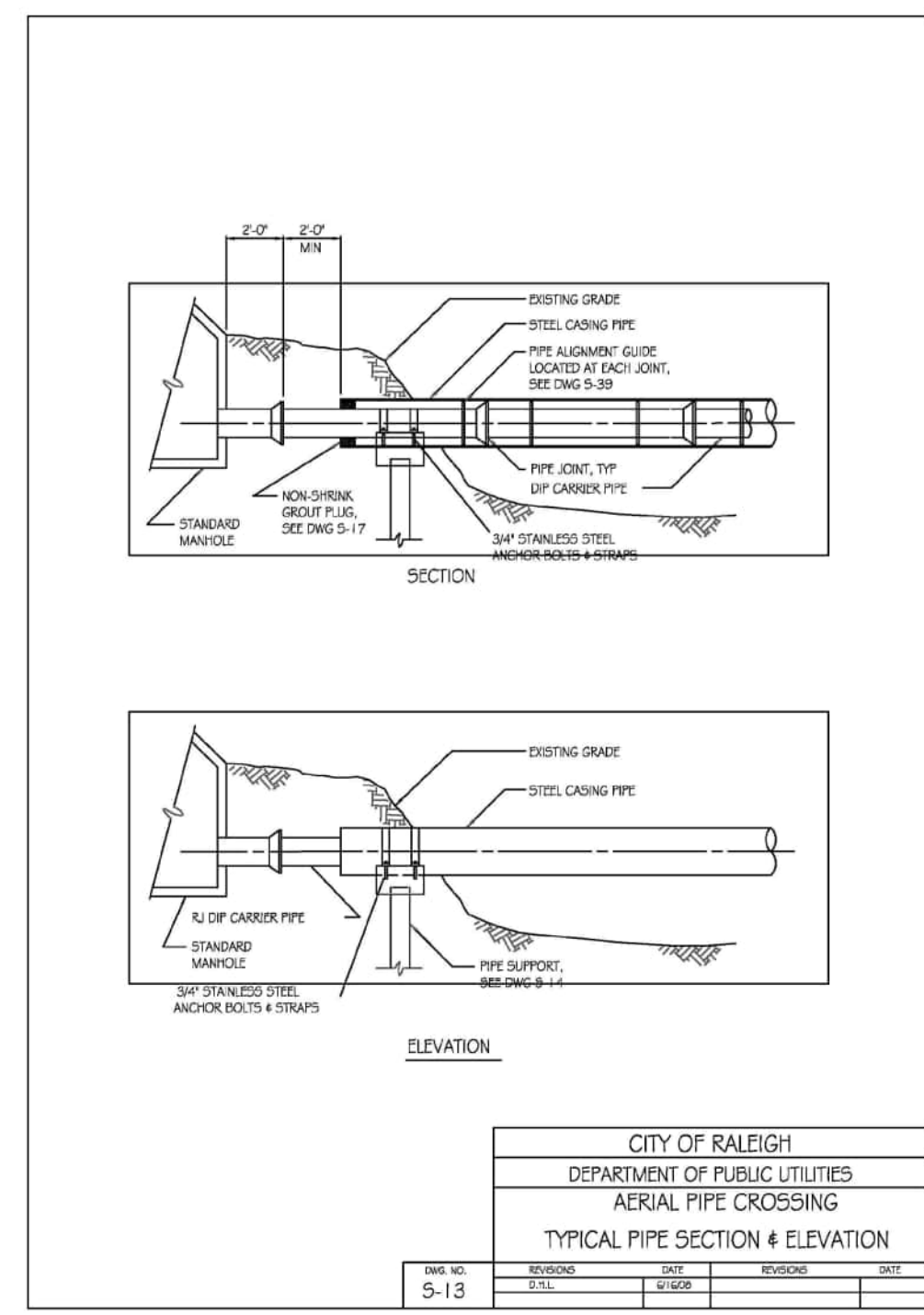
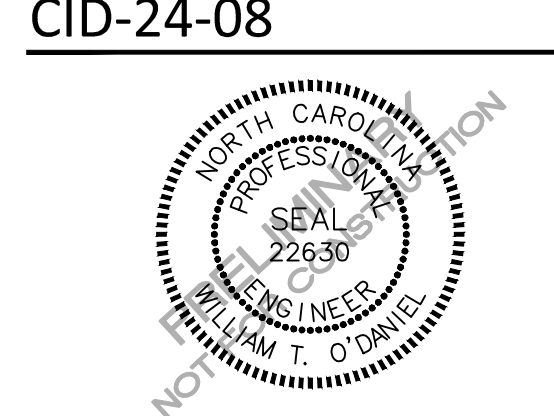
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PEARCE FARM - PHASES 1-3
CONSTRUCTION DRAWINGS - PACKAGE 1
BURLINGTON MILLS ROAD
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



REVISIONS

Table with columns for NO. and DATE.

PLAN INFORMATION

Table with columns for PROJECT NO., FILENAME, CHECKED BY, DRAWN BY, SCALE, DATE.

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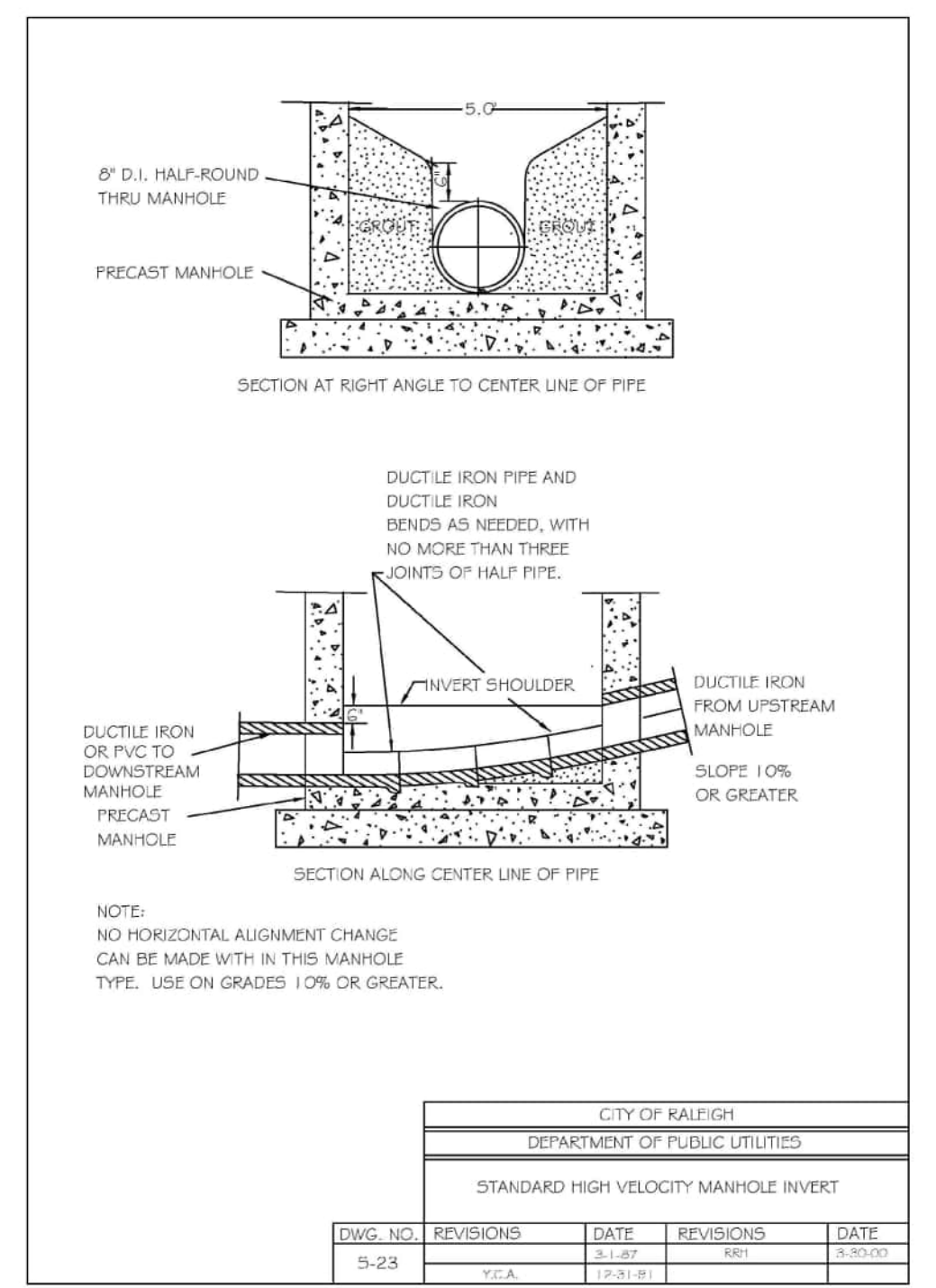


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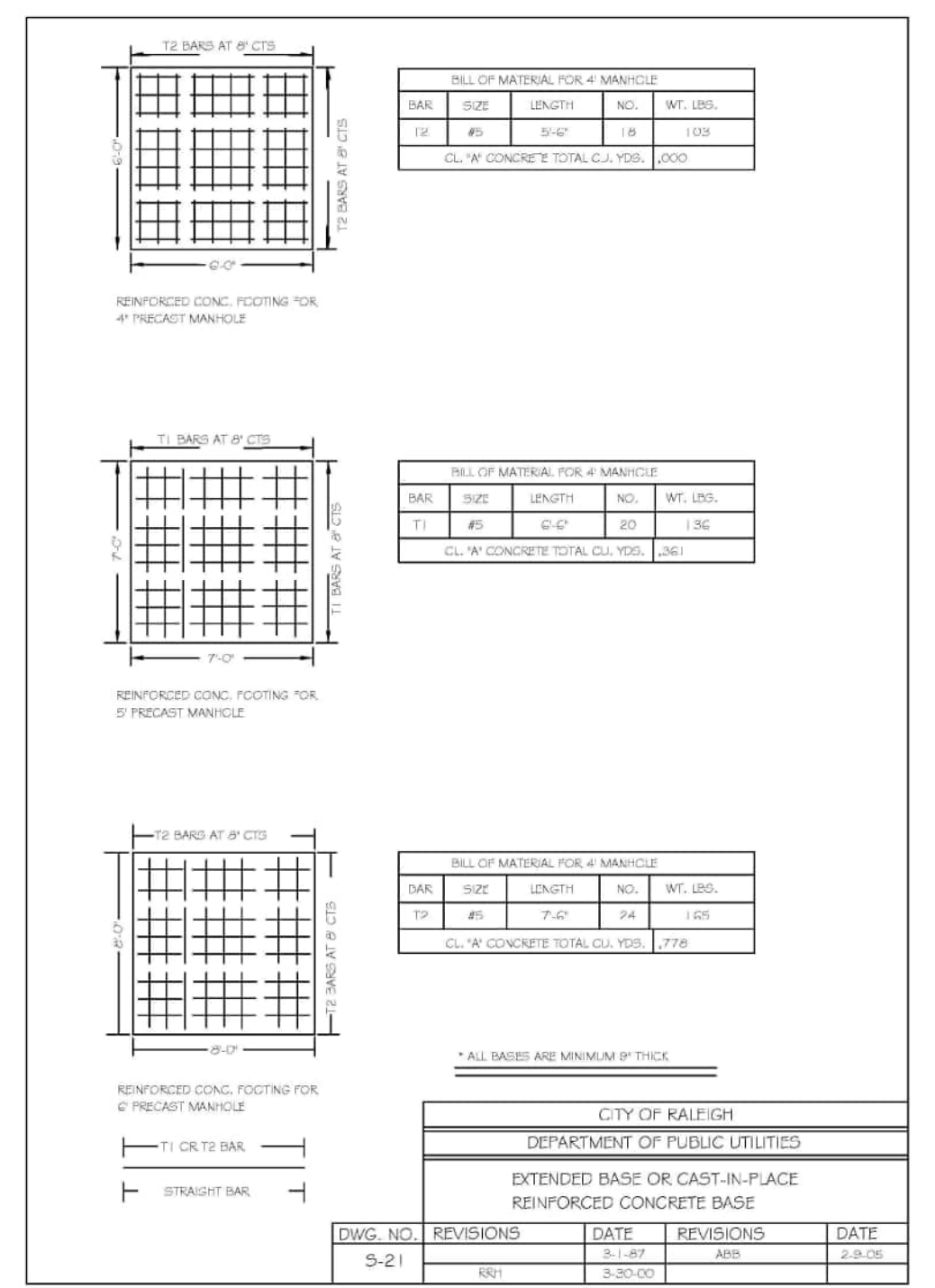


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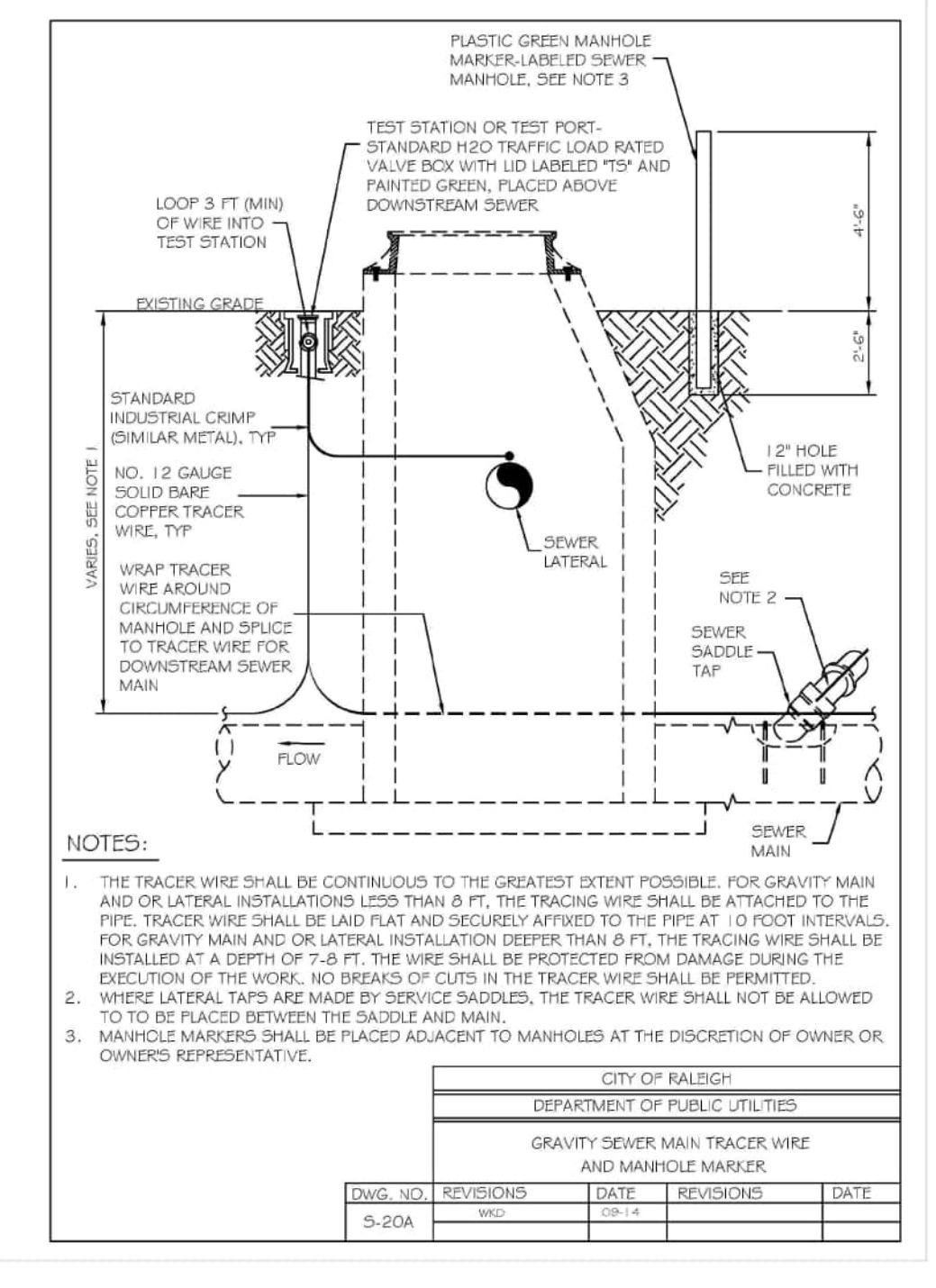


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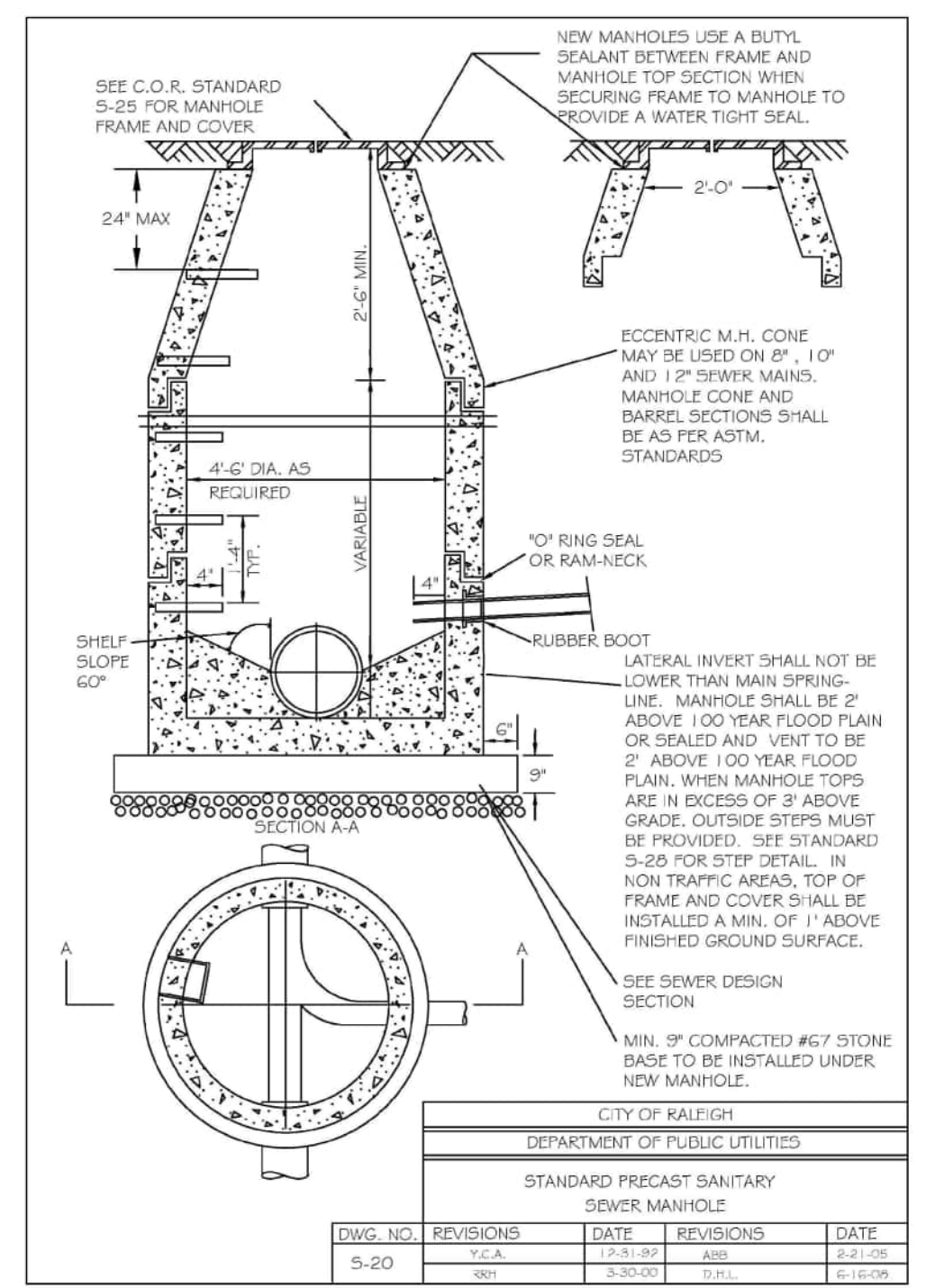


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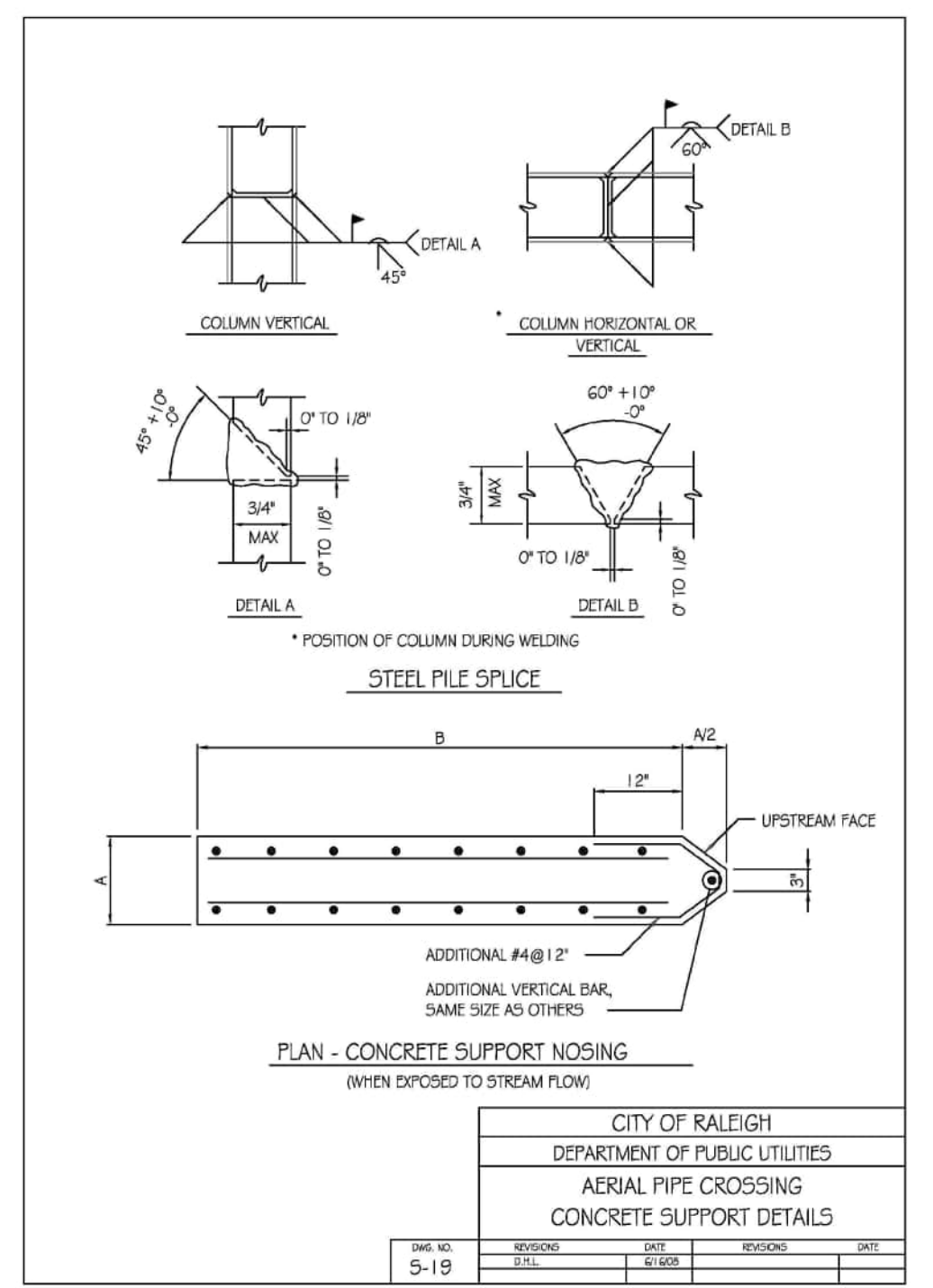


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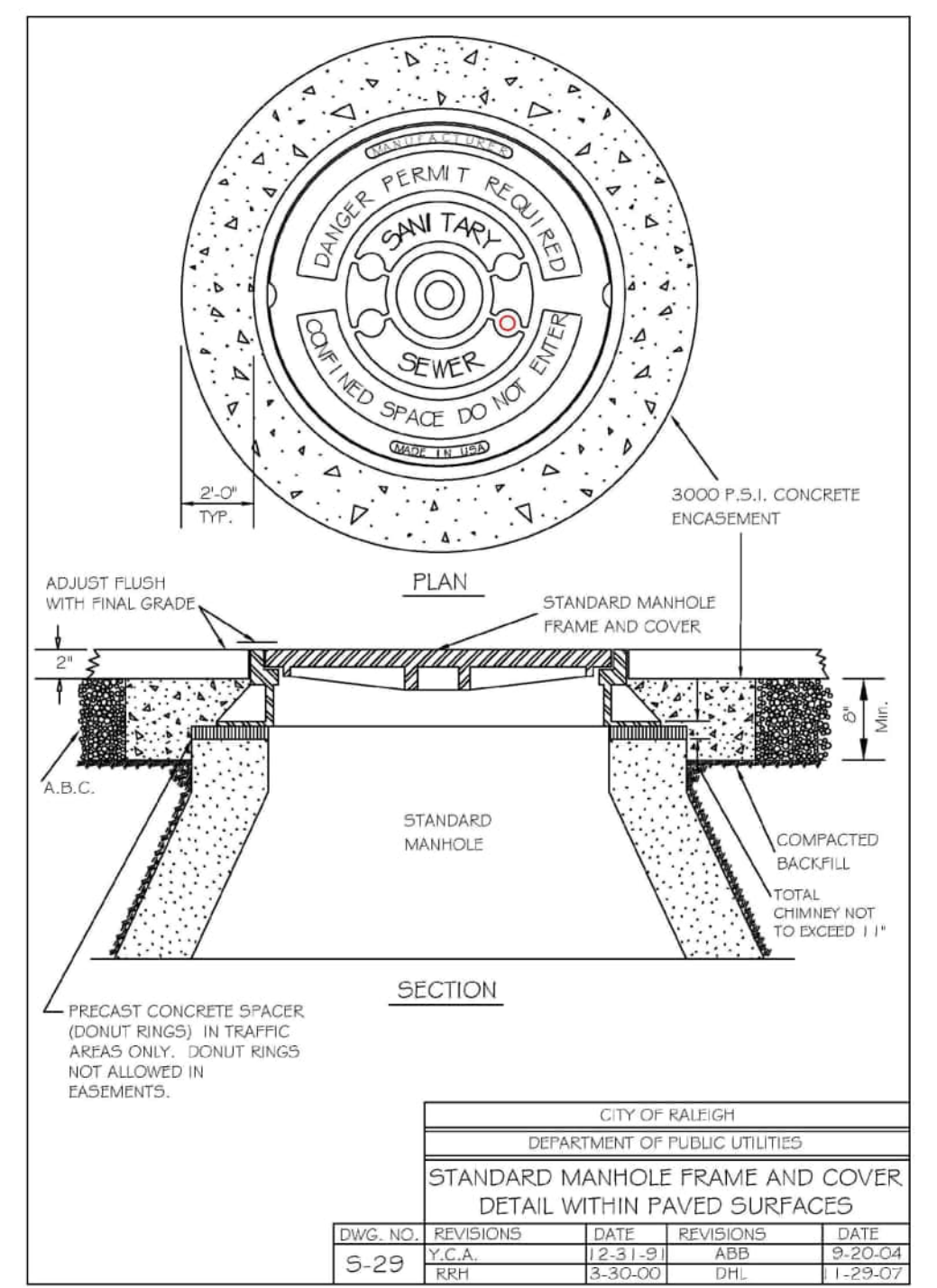


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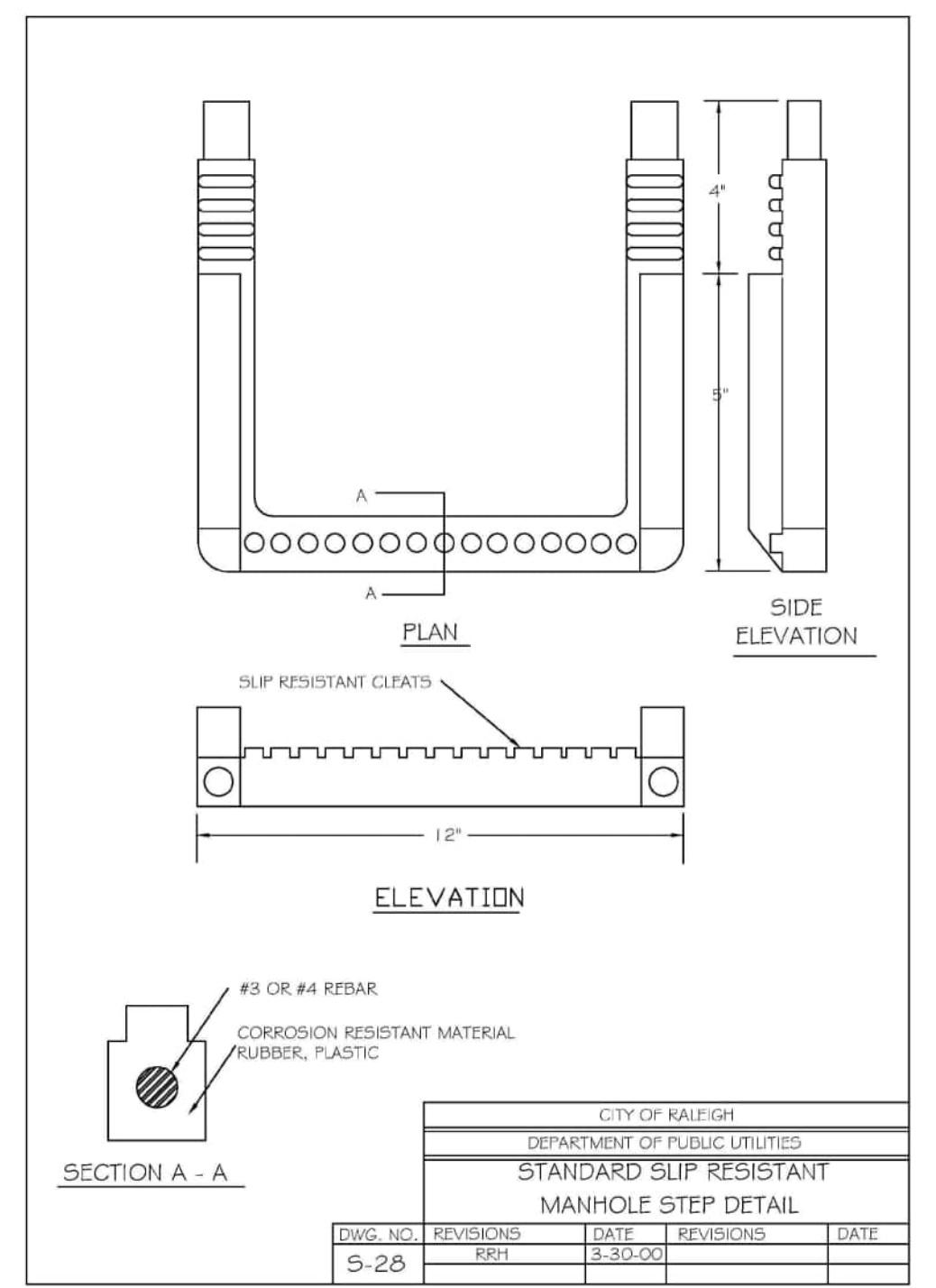


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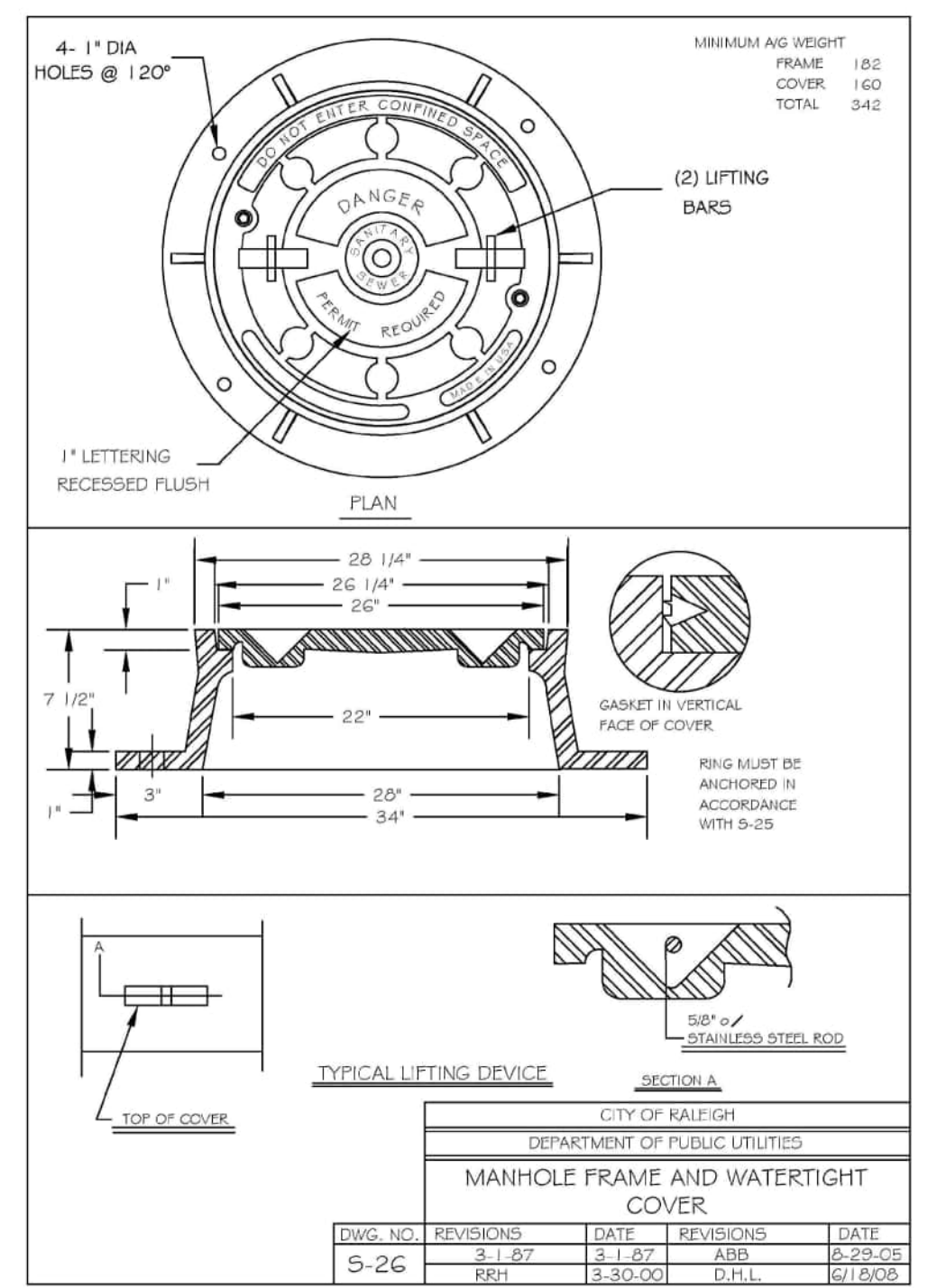


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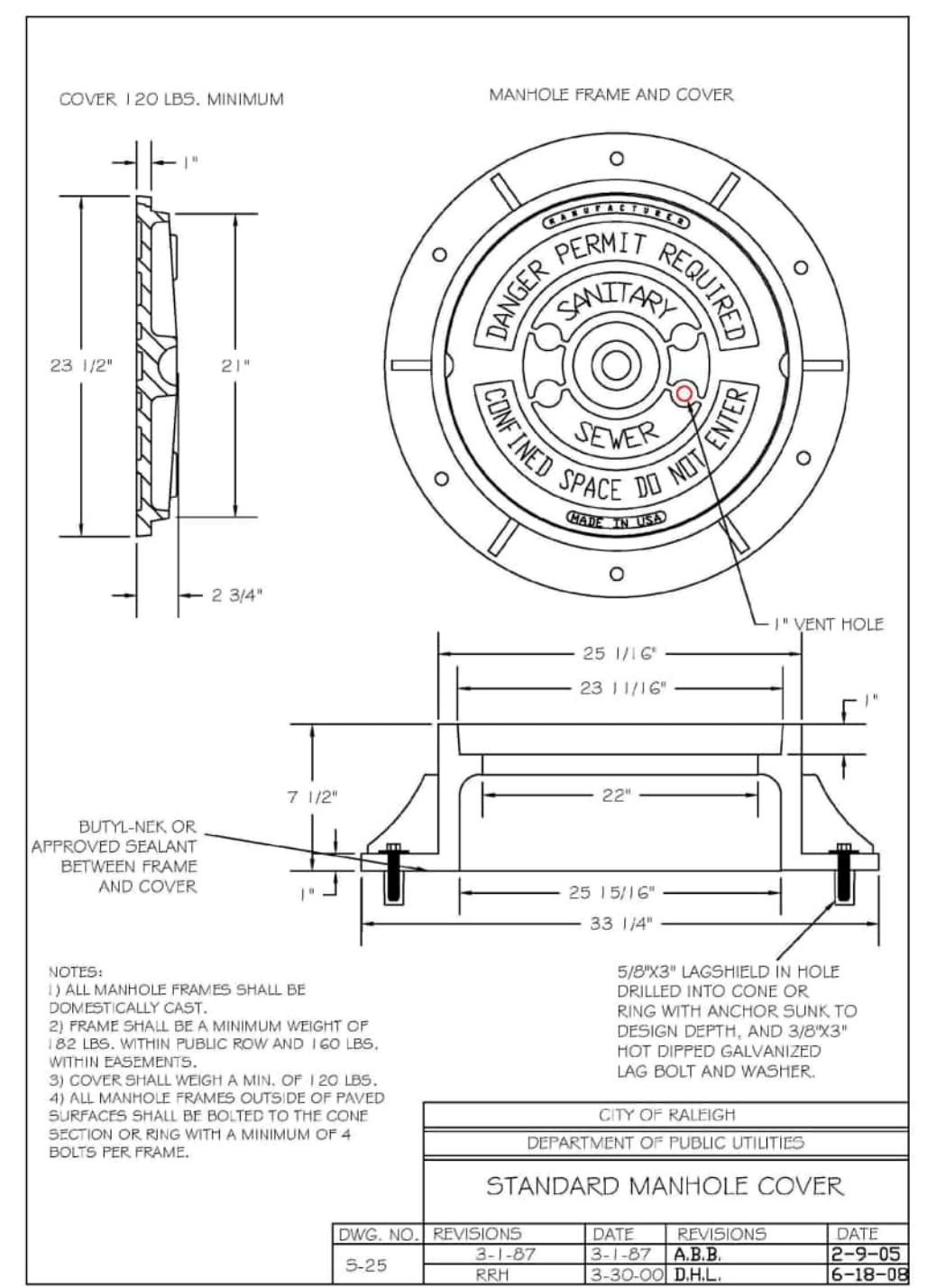


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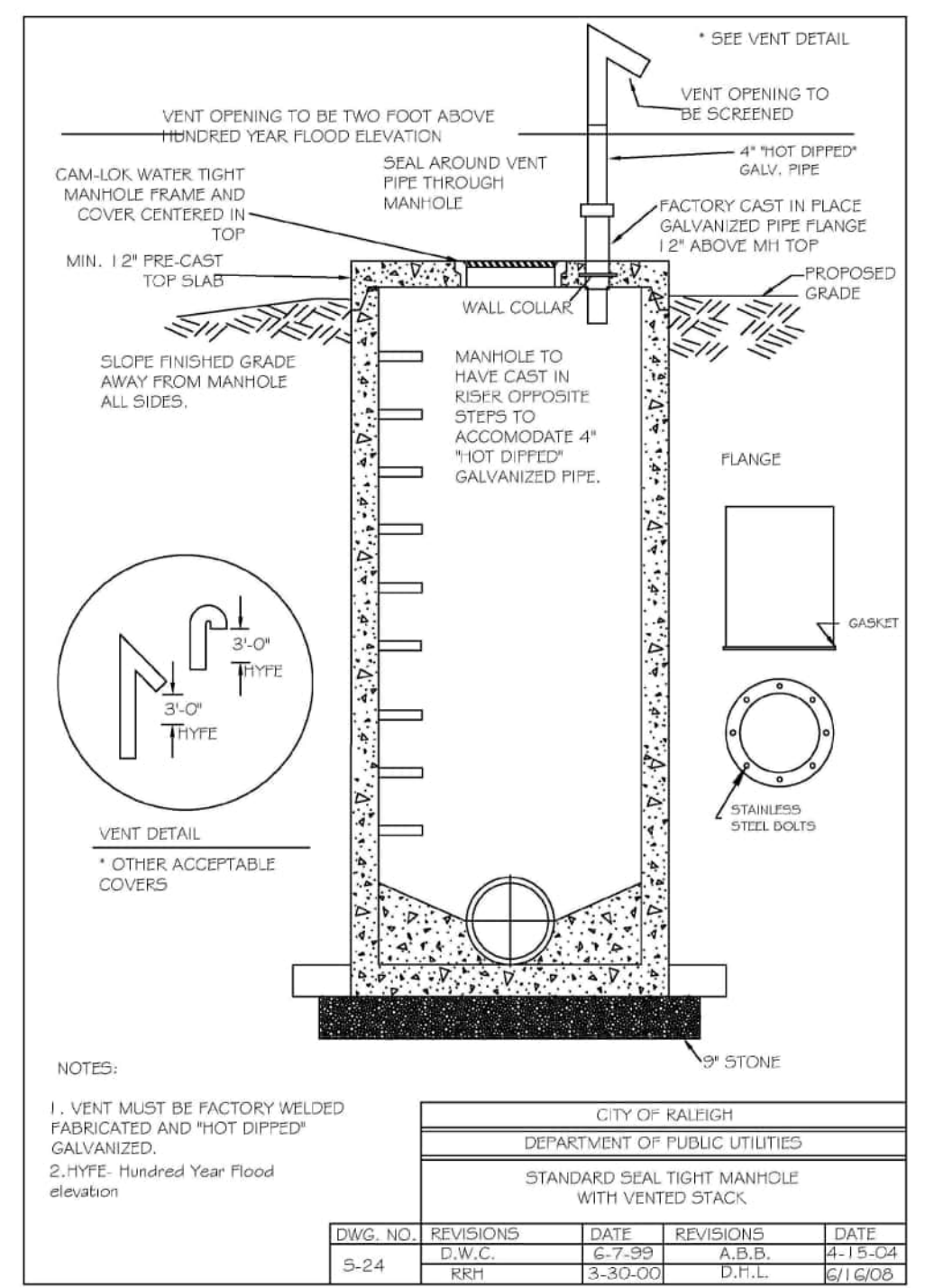


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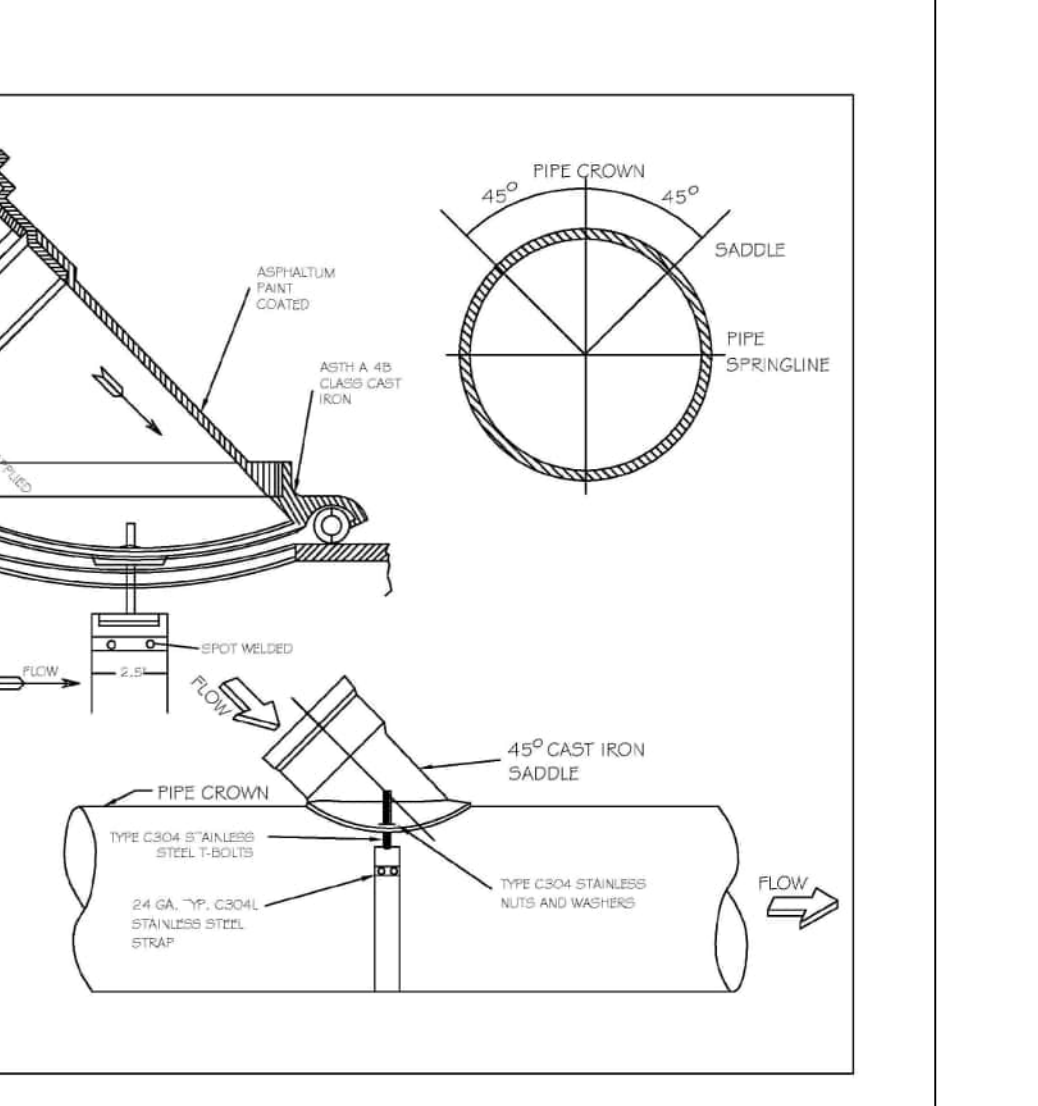


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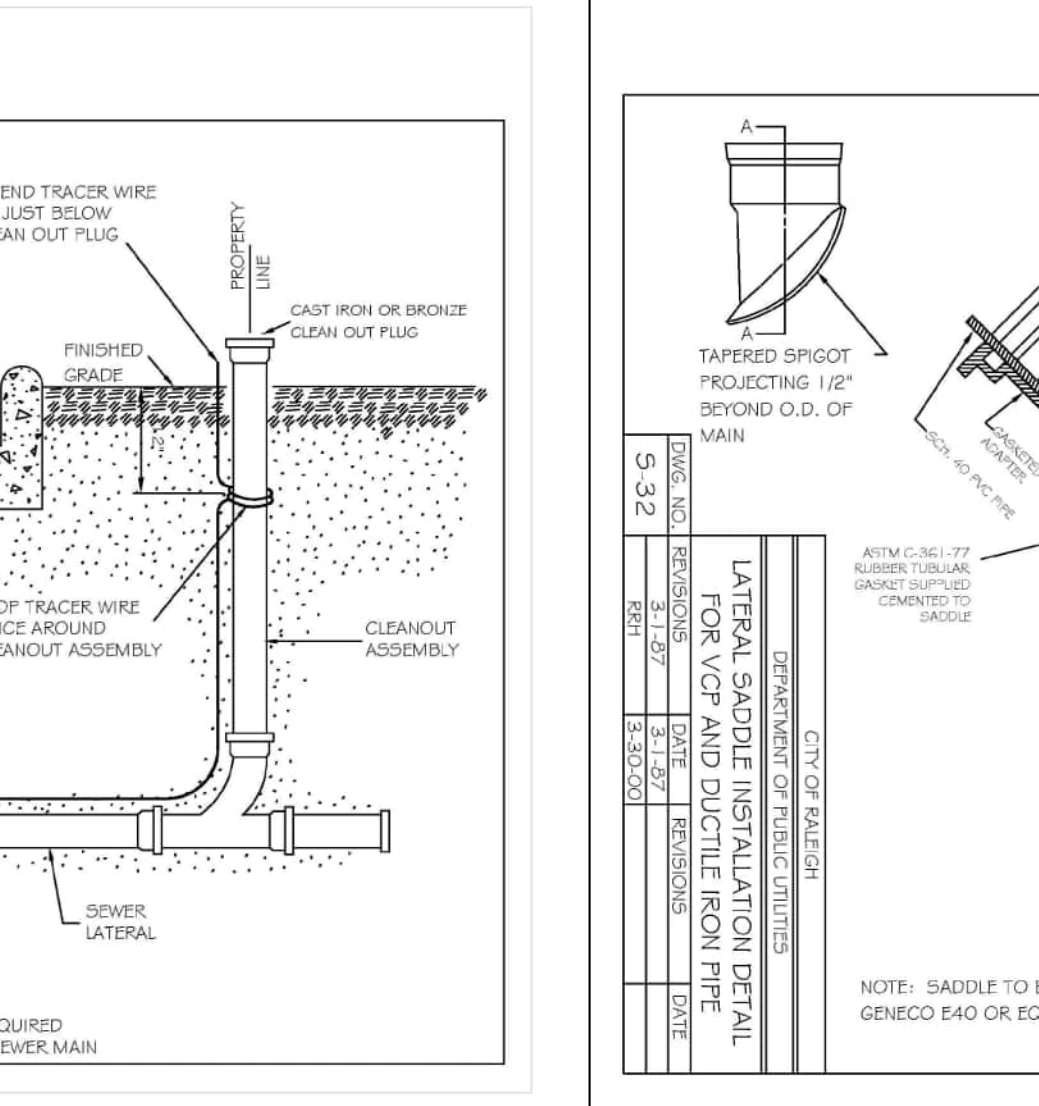


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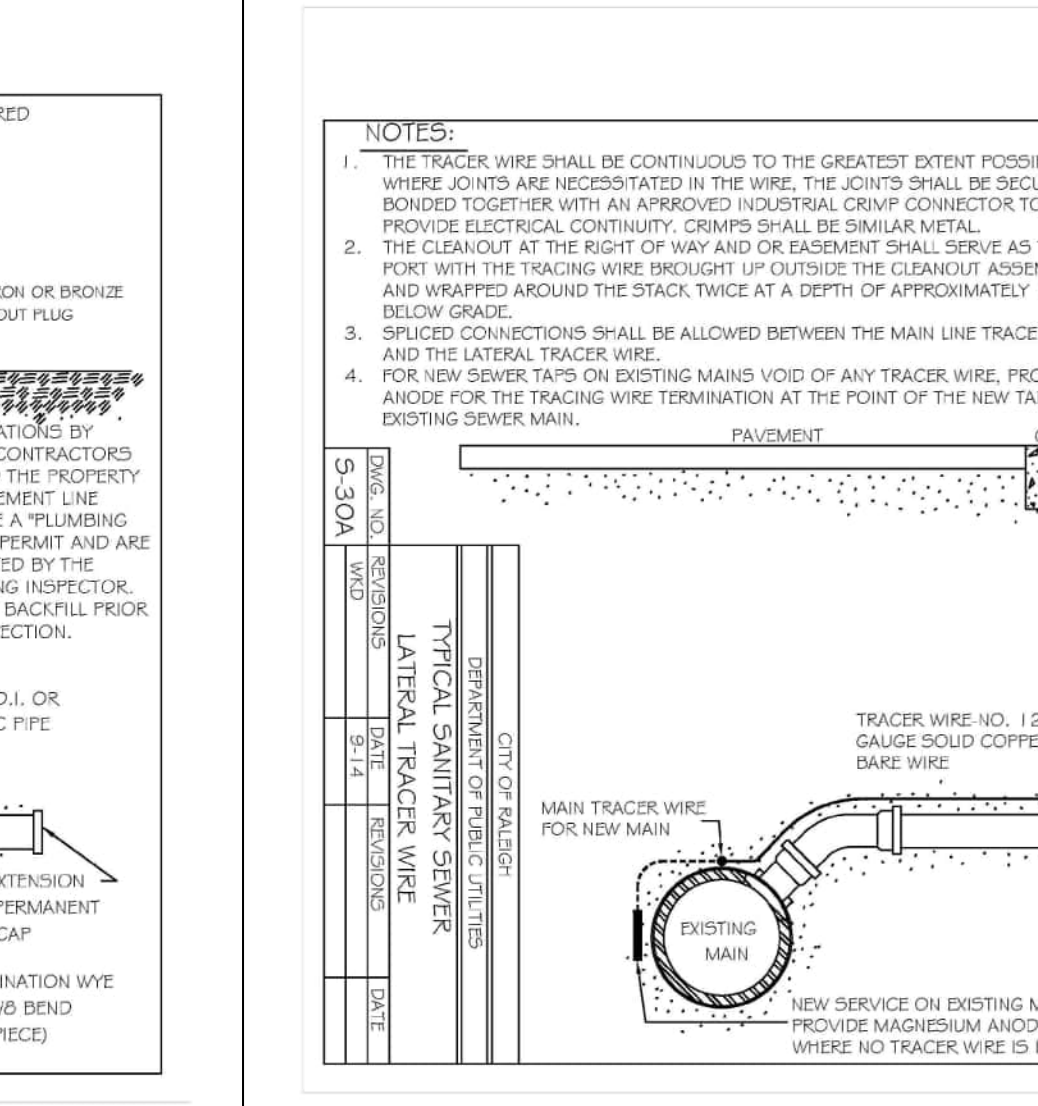


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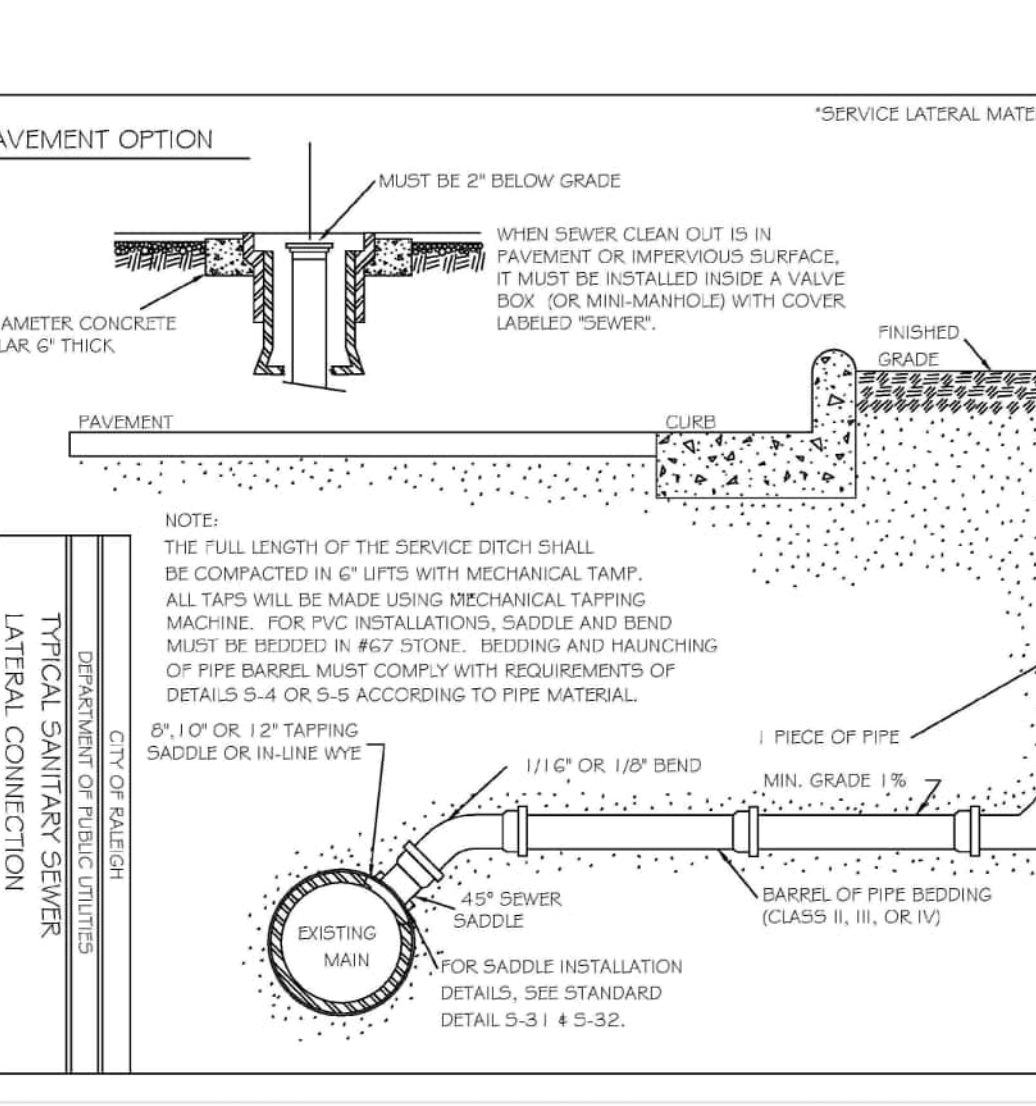


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REVISIONS

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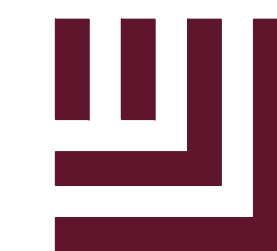
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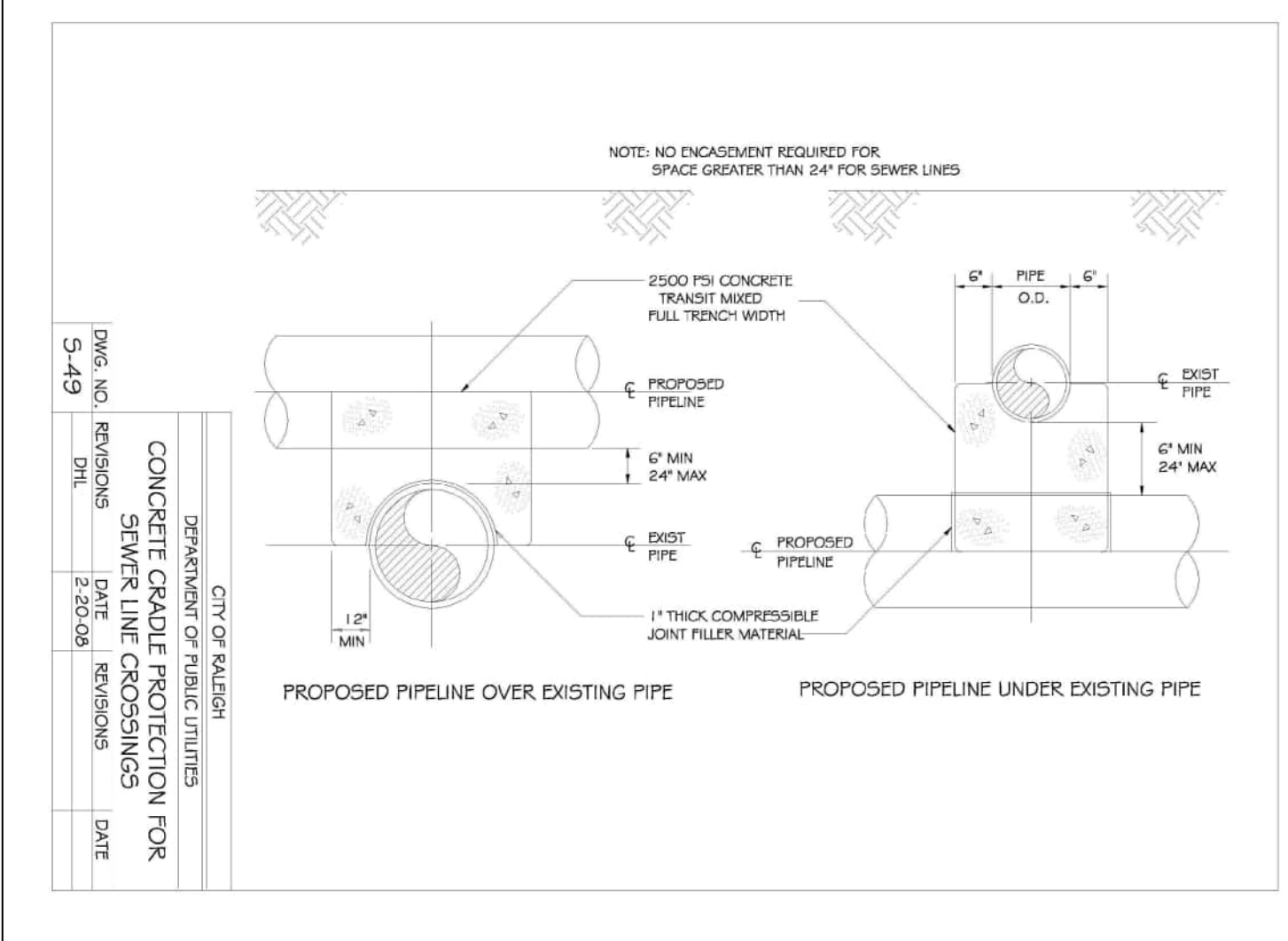
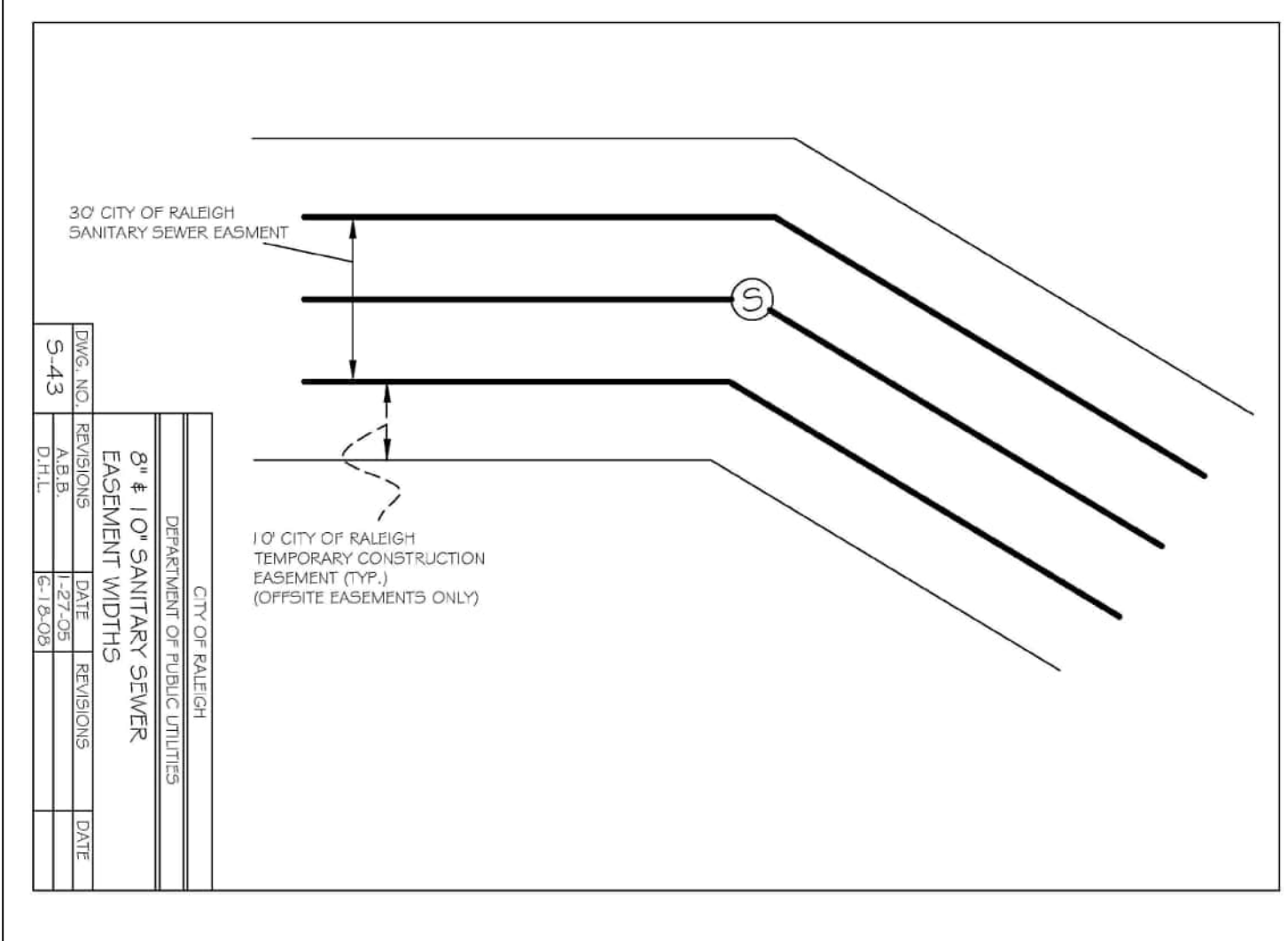
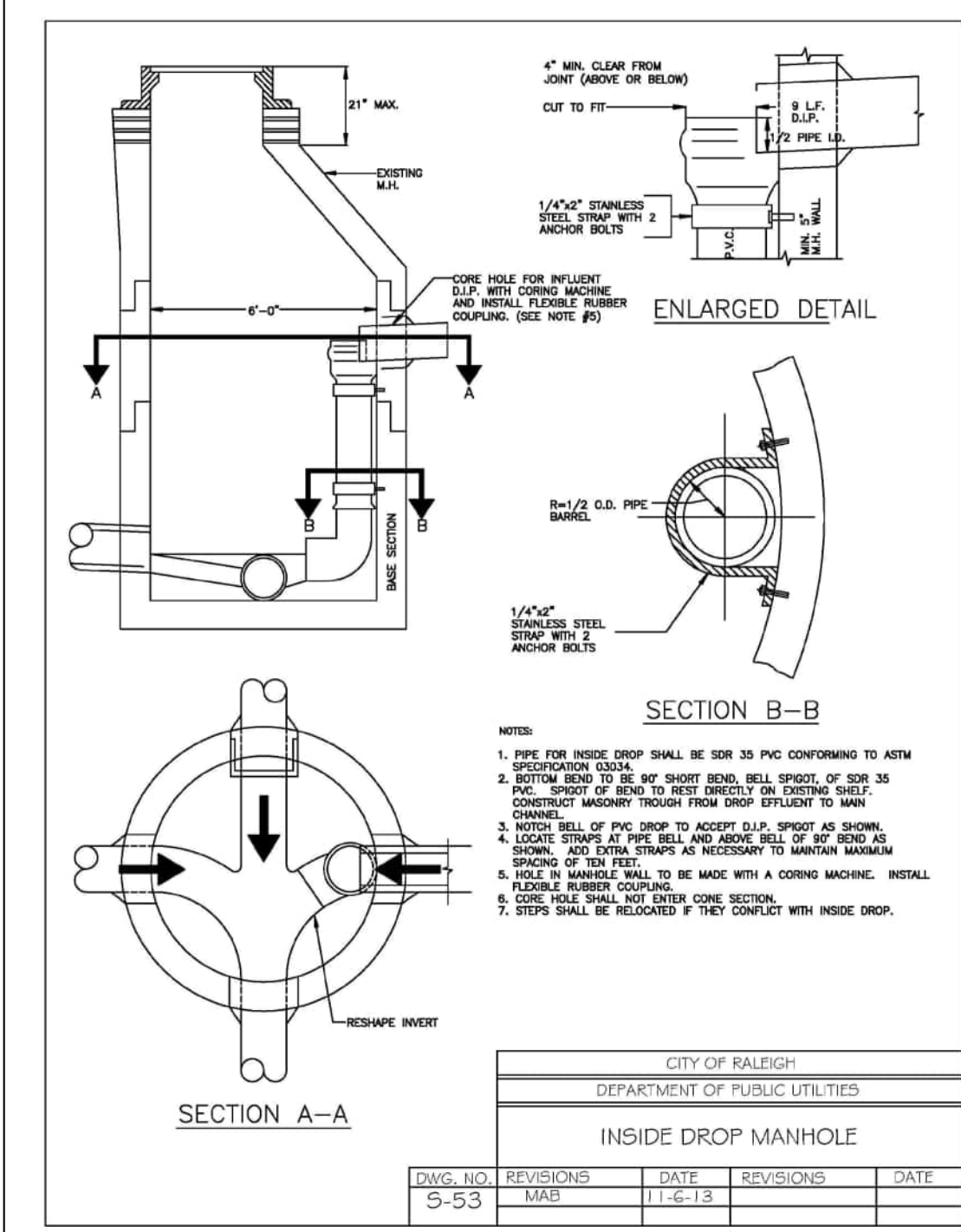
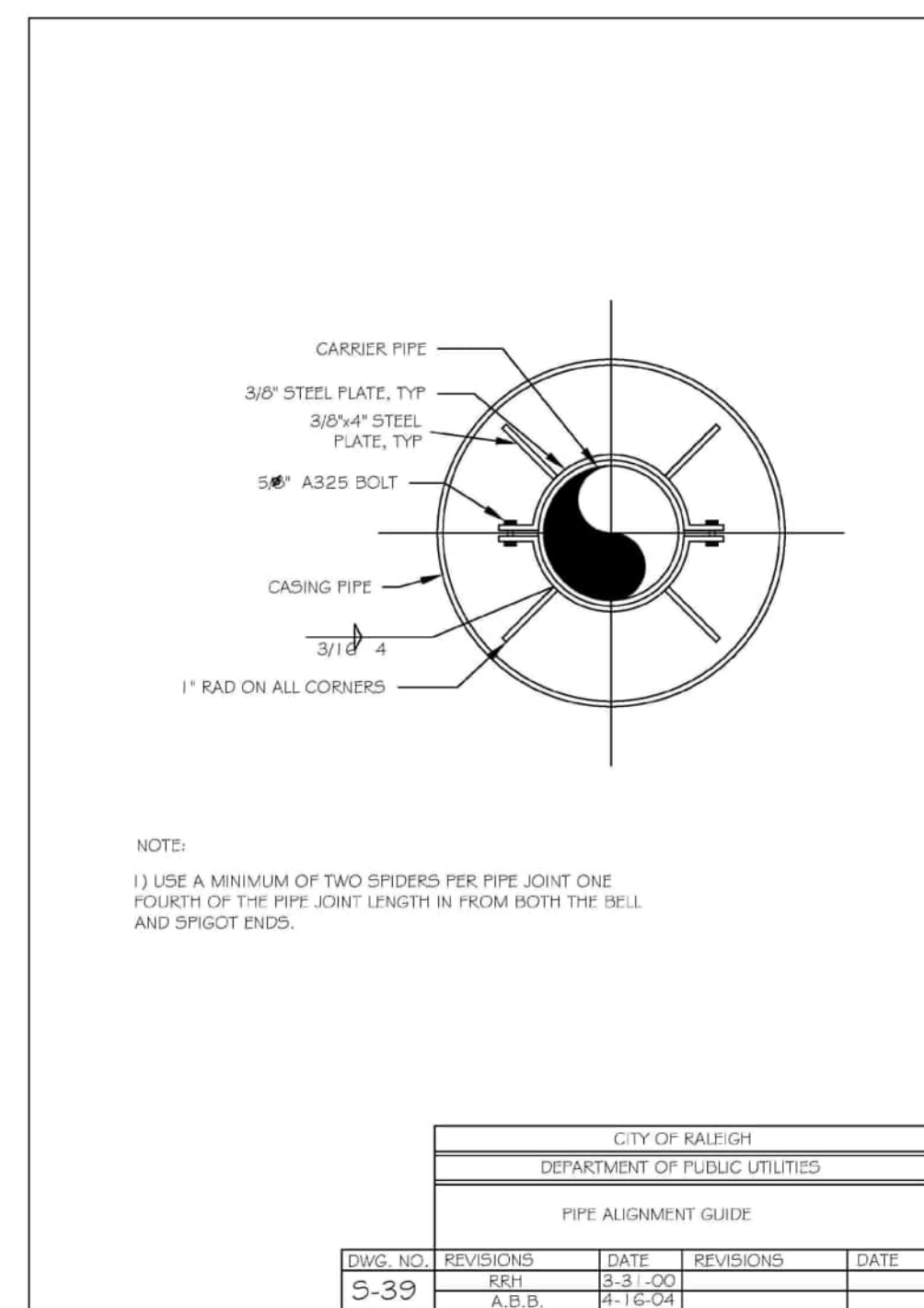
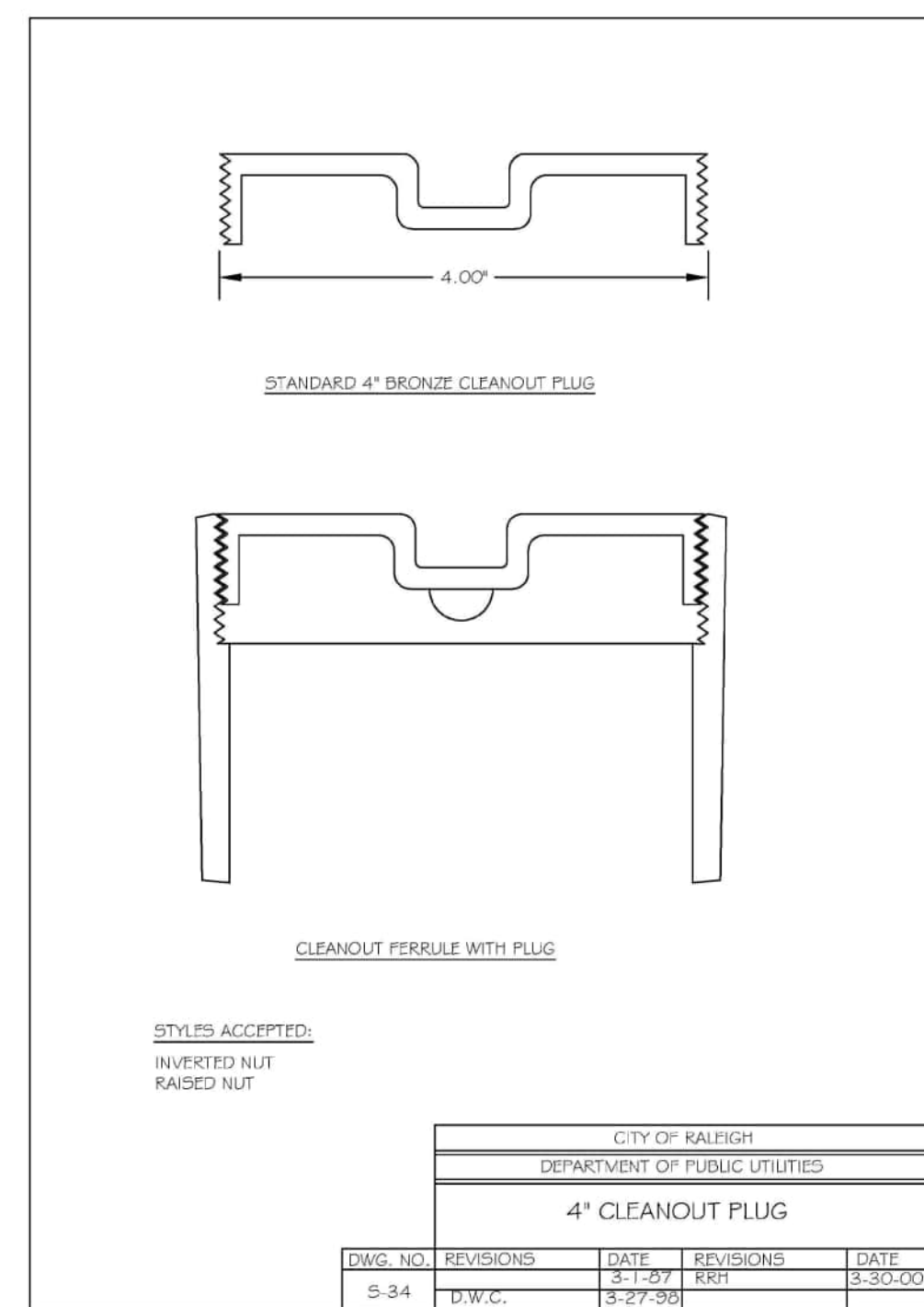
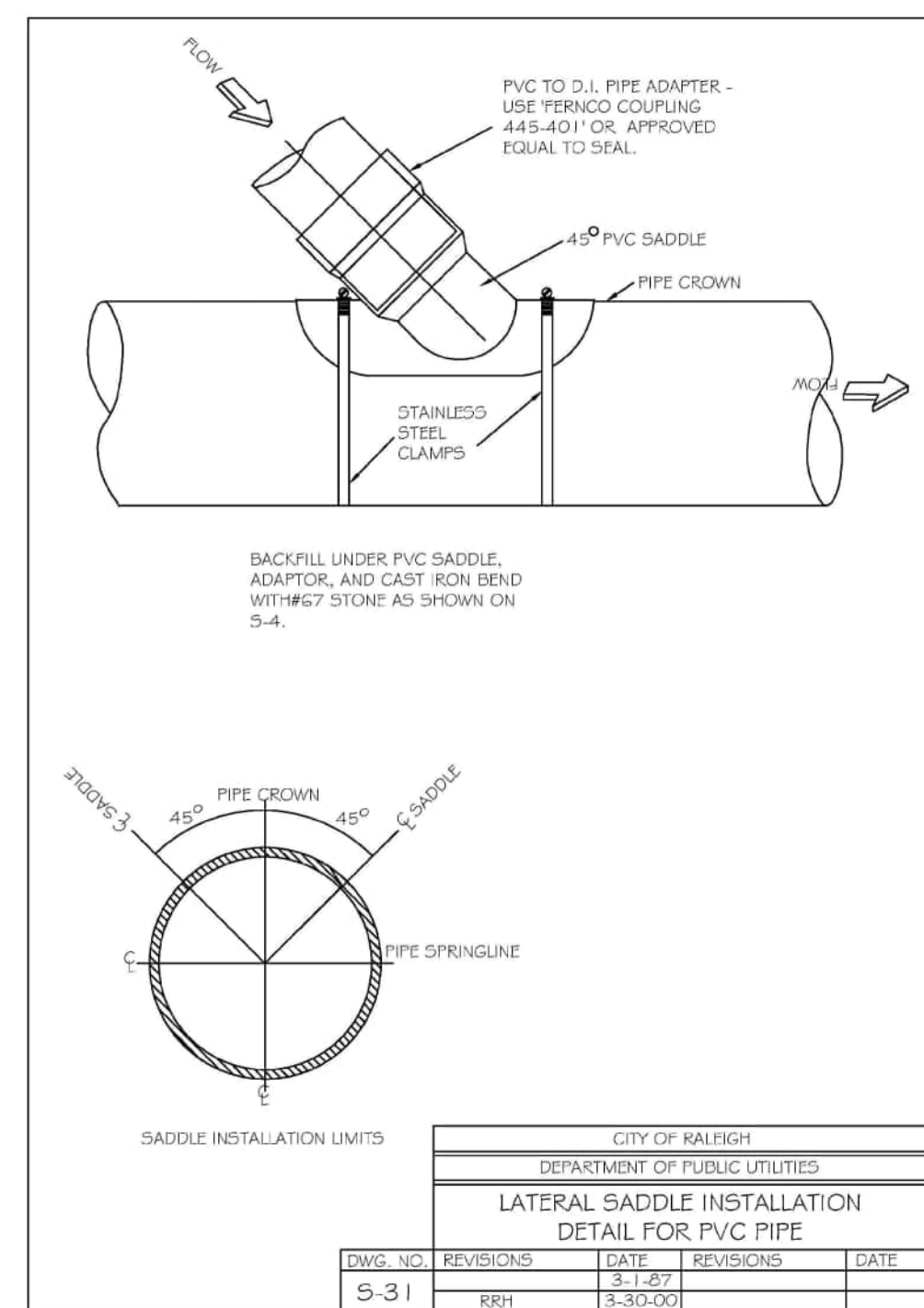
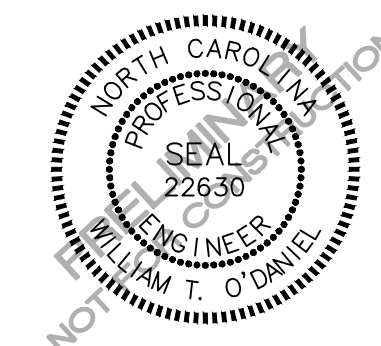
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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**

BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

NO. DATE

**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AGN23001-D1  
CHECKED BY .  
DRAWN BY .  
SCALE N.T.S.  
DATE 12.02.2024

**SHEET**

**SANITARY SEWER  
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C8.08**



# STORMWATER CONTROL MEASURE 'A' CONSTRUCTION SPECIFICATIONS

## GENERAL NOTES

- PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION IMMEDIATELY. IF THE CONTRACTOR, IN THE COURSE OF WORK, FINDS ANY DISCREPANCIES IN THE PLANS OR NOTES GIVEN BY THE PROJECT ENGINEER, IT SHALL BE THEIR DUTY TO IMMEDIATELY INFORM THE PROJECT ENGINEER IN WRITING. ANY WORK DONE AFTER SUCH A DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LICENSES AND PERMITS REQUIRED TO COMPLETE THE WORK INCLUDED IN THE CONTRACT DOCUMENTS AT THE CONTRACTOR'S EXPENSE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THEY AND THEIR SUBCONTRACTORS HAVE THE CORRECT AND MOST UP-TO-DATE PLANS AVAILABLE.
- THE PROJECT WILL MEET ALL RELEVANT DESIGN REQUIREMENTS IN THE NCDOD MANUAL AND THE TOWN OF ROLESVILLE REGULATIONS AND STANDARDS.
- THE DESIGN ENGINEER OR THEIR REPRESENTATIVE SHALL BE ON-SITE FOR THE INSTALLATION OF ESSENTIAL ELEMENTS OF THE PRINCIPAL SPILLWAY INCLUDING BUT NOT LIMITED TO THE ANTI-FLOAT BLOCK, RISER, CONCRETE COLLAR, CONCRETE CRADLE, AND THE OUTLET BARREL. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER 72 HOURS PRIOR TO INSTALLATION OF THESE ITEMS TO ENSURE THAT A REPRESENTATIVE CAN BE ON-SITE. PHOTOGRAPHS OF THESE ITEMS MUST BE TAKEN PRIOR TO BACKFILLING FOR USE IN THE AS-BUILT PHASE. IF THE CONTRACTOR INSTALLS THESE WITHOUT THE ENGINEER OR ENGINEER'S REPRESENTATIVE ON-SITE, THEN THE ELEMENTS SHALL BE UNCOVERED FOR INSPECTION AT THE CONTRACTOR'S EXPENSE.
- THE FINAL CERTIFICATION FOR THIS FACILITY WILL INCLUDE A CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ON-SITE GEOTECHNICAL ENGINEER FOR OBSERVATION AND TESTING SUCH THAT THE ON-SITE GEOTECHNICAL ENGINEER CAN CERTIFY THE CONSTRUCTION OF THE DAM EMBANKMENT AND SPILLWAY. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY.
- ALL CONSTRUCTION ACTIVITY RELATED TO THE PROPOSED STORMWATER CONTROL MEASURE SHALL BE PER THE DETAILS AND SPECIFICATIONS SHOWN IN THESE DRAWINGS, SOILS, COMPACTION, AND OTHER MISCELLANEOUS DETAILS AND SPECIFICATIONS MAY BE MODIFIED PER THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER. HOWEVER, PRIOR TO IMPLEMENTATION, THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DEVIATION FROM THESE DESIGN DRAWINGS, INCLUDING SHOP DRAWINGS FOR ANY PROPOSED MODIFICATION.
- DURING THE INITIAL STAGES OF CONSTRUCTION, THE STORMWATER CONTROL MEASURE MAY BE USED AS A SEDIMENT BASIN FOR EROSION CONTROL PURPOSES. IF SO, THE CONTRACTOR SHALL FOLLOW THE GENERAL CONSTRUCTION SEQUENCE BELOW:
  - THE CONTRACTOR SHALL CONSTRUCT THE ENTIRE FACILITY (PERMANENT TRENCH, DAM, ETC.) WITH THE EXCEPTION OF THE INTERIOR FINE GRADING FOR THE FACILITY. THE INTERIOR FINE GRADING WILL BE CONSTRUCTED UNDER THE EROSION CONTROL PHASE IS COMPLETE.
  - THE TEMPORARY DRAWDOWN RISER (OR SKIMMER) SHALL BE CONNECTED TO THE PERMANENT 6" DIP DRAIN PIPE.
  - ONCE THE UPSTREAM DRAINAGE AREA IS STABILIZED AND THE EROSION CONTROL INSPECTOR APPROVES THE REMOVAL OF THE SEDIMENT BASIN, THE CONTRACTOR SHALL REMOVE THE TEMPORARY DRAWDOWN RISER (OR SKIMMER) AND CLEAN OUT THE BASIN IN ACCORDANCE WITH EROSION CONTROL STANDARD PRACTICES. ALL SEDIMENT, TRASH, ETC. SHALL BE DISPOSED OF PROPERLY (I.E. PLACED IN A LANDFILL) AND NOT STOCKPILED IN AN AREA WHERE WATER QUALITY COULD BE ADVERSELY AFFECTED.
  - ONCE THE BASIN IS CLEANED OUT, AND ALL EROSION CONTROL DEVICES REMOVED, THE CONTRACTOR SHALL CONSTRUCT THE INTERIOR GRADING SHOWN ON THIS SHEET.
  - ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER CONTROL MEASURE PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.
  - ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER CONTROL MEASURE PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER CONTROL MEASURE PLANTING PLAN.
- ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. McADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.
- ON-SITE GEOTECHNICAL ENGINEER SHALL DETERMINE THE IN-SITU SOIL INFILTRATION RATE OF THE STORMWATER CONTROL MEASURE BOTTOM. BASED ON THE RESULTS, THE DESIGN ENGINEER SHALL DETERMINE IF A LINER WILL BE NEEDED TO MAINTAIN A PERMANENT POOL. UPON DETERMINATION OF HIGHLY PERMEABLE SOILS AND THE SEASONAL HIGH WATER TABLE OUTSIDE OF THE ACCEPTABLE RANGE, THE DESIGN ENGINEER WILL PROVIDE SPECIFICATIONS FOR THE LINER.
- IT IS ANTICIPATED THAT DEWATERING WILL BE NECESSARY IN THE EXCAVATION AREAS (E.G., EMBANKMENT SUB GRADE, INTERIOR PORTIONS OF THE FOREBAY AND KEY TRENCH). THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE STORMWATER CONTROL MEASURE SITE. DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE PRIOR TO DISCHARGE).
- PRIOR TO TOPSOIL INSTALLATION, THE CONTRACTOR SHALL SCARIFY THE TOP 2"-3" OF THE BERM SECTION TO PROMOTE BONDING OF THE TOPSOIL WITH THE COMPACTED FILL. THE TOPSOIL DEPTH SHALL RANGE FROM 3" ON THE DAM EMBANKMENT AND AQUATIC SHELF. PLEASE NOTE THE TOPSOIL SHALL BE AMENDED AS DIRECTED BY A LANDSCAPE PROFESSIONAL PRIOR TO INSTALLATION ON THE EMBANKMENT AND AQUATIC SHELF.
- THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY PERIOD FOR ALL PLANTINGS IN THE STORMWATER CONTROL MEASURE.
- THE CONTRACTOR SHALL REFER TO THE LANDSCAPING PLAN FOR THE PERMANENT PLANTING PLAN/SCHEDULE FOR THIS FACILITY. CONTRACTOR SHALL COORDINATE WITH A LANDSCAPE PROFESSIONAL REGARDING SCHEDULING FOR PLANT INSTALLATION. PLEASE NOTE THAT NO TREES/SHRUBS OF ANY TYPE MAY BE PLANTED ON FILL AREAS OF THE PROPOSED DAM EMBANKMENT.
- RETAINING WALL ALIGNMENT SHOWN ON THESE PLANS DEPICTS THE LOCATION OF THE FRONT FACE OF THE RETAINING WALL AT THE BOTTOM.
- RETAINING WALL IS TO BE A DESIGN-BUILD PROJECT BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FINAL CONSTRUCTION DRAWINGS FROM A REGISTERED PROFESSIONAL ENGINEER AND GAIN ALL REQUIRED PERMITS NECESSARY FOR THE CONSTRUCTION OF THE RETAINING WALL.
- RETAINING WALL SHALL BE ASSUMED TO BE BACKFILLED WITH OFF-SITE BORROW MATERIAL OR PROCESSED FILL UNLESS CONTRACTOR CAN PROVIDE OWNER WITH CONFIRMATION FROM THE GEOTECHNICAL ENGINEER AND THE RETAINING WALL DESIGNER THAT READILY AVAILABLE ON-SITE SOILS CAN BE USED.
- TOP AND BOTTOM OF WALL ELEVATIONS REFERENCED ON THESE PLANS IDENTIFY FINISHED GRADE ELEVATIONS ONLY. THE EXTENT THAT THE RETAINING WALL WILL BE EXTENDED BELOW GRADE TO THE FOOTING SHALL BE IDENTIFIED ON THE RETAINING WALL CONSTRUCTION DRAWINGS.
- ON-SITE GEOTECHNICAL ENGINEER SHOULD BE GIVEN AN OPPORTUNITY TO REVIEW ALL RETAINING WALL PLANS AND DESIGNS RELEVANT TO GEOTECHNICAL CONSIDERATIONS PRIOR TO FINAL DESIGN OF THE WALLS.

## OUTLET STRUCTURE MATERIAL SPECIFICATIONS

- THE 48" RCP OUTLET BARREL SHALL BE CLASS III OR RING RCP, MODIFIED BELL AND SPIGOT, MEETING THE REQUIREMENTS OF ASTM C76-LATEST. THE PIPES SHALL HAVE SINGLE OFFSET JOINTS MEETING ASTM C-443-LATEST.
- THE STRUCTURAL DESIGN FOR THE 6' X 6' (INTERNAL DIMENSIONS) RISER BOX WITH EXTENDED BASE SHALL BE BY OTHERS. PRIOR TO ORDERING THE STRUCTURES, THE CONTRACTOR SHALL PROVIDE TO THE DESIGN ENGINEER FOR REVIEW, SHOP DRAWINGS AND SUPPORTING STRUCTURAL CALCULATIONS SEALED BY A P.E. REGISTERED IN NORTH CAROLINA DEMONSTRATING THE PERTINENT VERTICAL LOADS ARE SUPPORTED BY THE CONCRETE RISER STRUCTURE.
- THE RISER BOX OUTLET STRUCTURE SHALL BE PROVIDED WITH STEPS 16" ON CENTER. STEPS SHALL BE PROVIDED ON THE INNER WALL OF THE RISER BOX. STEPS SHALL BE IN ACCORDANCE WITH NCDOT STD. 840.66. PLEASE REFER TO SHEET C9.01 FOR LOCATION OF THE RISER STEPS. NOTE THE STEPS SHALL LINE UP WITH THE ACCESS HATCH OF THE TRASH RACK.
- THE CONCRETE ANTI-FLOTATION BLOCK SHALL BE CAST-IN-PLACE. STEEL REINFORCEMENT AND CONNECTION TO THE RISER SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAIL ON SHEET C9.02. THE CONTRACTOR SHALL ENSURE THE WEIGHT OF THE ENTIRE RISER STRUCTURE IS GREATER THAN OR EQUAL TO 47,241 LBS.
- THE RISER BOX JOINTS SHALL BE SEALED USING BUTYL RUBBER SEALANT CONFORMING TO ASTM C990-LATEST. IF NECESSARY, THE CONTRACTOR SHALL INCORPORATE A WATERSTOP INTO THE RISER BOX JOINT TO ENSURE A WATER-TIGHT CONNECTION. THE CONTRACTOR SHALL PATCH JOINTS ON BOTH THE INSIDE AND OUTSIDE WITH NON-SHRINKING GROUT AND INSTALL GALVANIZED STEEL STRAPS PER DETAIL ON SHEET C9.01.
- PRIOR TO ORDERING, THE CONTRACTOR SHALL SUBMIT TRASH RACK SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL ENSURE THAT AN ACCESS HATCH IS PROVIDED ON THE TRASH RACK (SEE DETAIL SHEET C9.01 FOR LOCATION) THAT WILL ALLOW FOR FUTURE MAINTENANCE ACCESS. NOTE THE ACCESS HATCH SHALL LINE UP WITH THE ACCESS STEPS AFTER INSTALLATION.
- ALL Poured concrete shall meet the following specifications unless otherwise noted:
  - MINIMUM 3000 PSI (28 DAY)
  - SLUMP = 3" - 5"
  - ENTRAINED AIR = 5% - 7%
 PLEASE NOTE NO CONCRETE SHALL BE POURED WHEN THE AMBIENT AIR TEMPERATURES ARE EXPECTED TO BE ABOVE 85°F OR BELOW 40°F. CAST-IN-PLACE CONCRETE SHALL BE "WET CURED" AFTER FINISHING FOR A MINIMUM OF 48 HOURS.
  - CAST-IN-PLACE CONCRETE TO BE VIBRATED AS NECESSARY.

ON-SITE GEOTECHNICAL ENGINEER TO TEST AND CERTIFY ALL Poured CONCRETE MEETS THE ABOVE SPECIFICATIONS. CONCRETE CYLINDERS FOR TESTING TO BE OBTAINED AT TIME OF POURING OF CAST-IN-PLACE STRUCTURES.

- GEOTEXTILE FABRIC FOR THE 48" RCP OUTLET BARREL JOINTS SHALL BE MIRAF1 180N OR ENGINEER APPROVED EQUAL (NON-WOVEN FABRIC).
- STORMWATER CONTROL MEASURE EMERGENCY DRAWDOWN IS VIA AN 6" PLUG VALVE. THE VALVE SHALL BE A M&M STYLE 1820 ECCENTRIC VALVE OR APPROVED EQUAL. THIS VALVE IS IN ACCORDANCE WITH ANWA C-517, AND SHALL BE OPERABLE FROM TOP OF OUTLET STRUCTURE VIA A HAND WHEEL (SEE DETAIL SHEET C9.01). THE CONTRACTOR SHALL PROVIDE A REMOVABLE VALVE WRENCH WITH A HAND WHEEL ON TOP FOR OPERATION OF THE 6" PLUG VALVE.

## CONSTRUCTION SEQUENCE

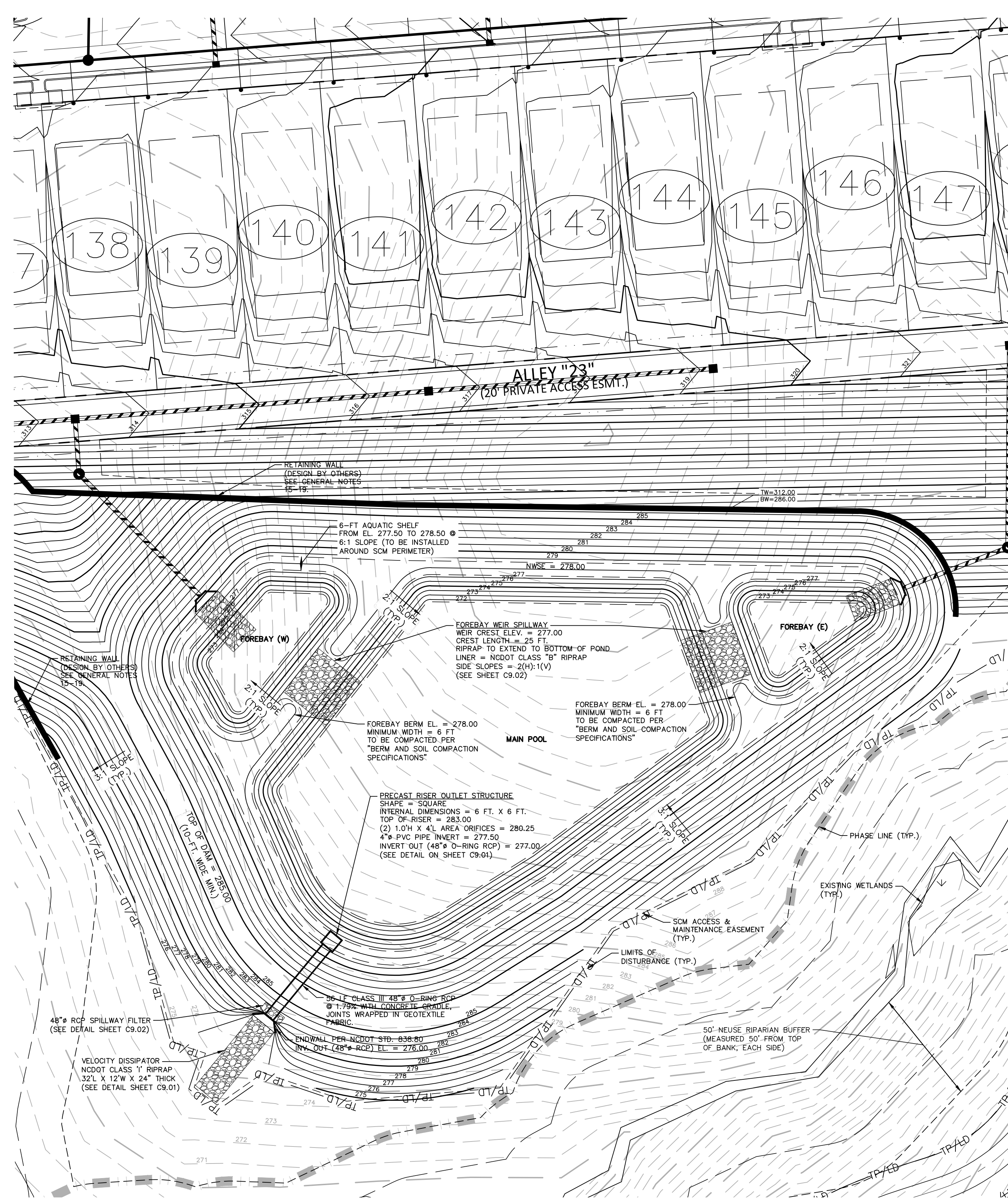
- PRIOR TO CONSTRUCTION, THE OWNER SHALL OBTAIN A LAND DISTURBING (GRADING) PERMIT AND AN "APPROVAL TO CONSTRUCT" FROM THE TOWN OF ROLESVILLE AND ALL OTHER NECESSARY PERMITS FROM APPLICABLE AGENCIES (E.G. 404 / 401 PERMITS).
- INSTALL ALL SEDIMENT AND EROSION CONTROL MEASURES PER THE APPROVED SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR SHALL MAINTAIN ALL APPROVED SEDIMENT AND EROSION CONTROL MEASURES THROUGHOUT THE ENTIRE PROJECT, AS REQUIRED. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE EROSION CONTROL INSPECTOR, AS REQUIRED BY GOVERNING AGENCIES, PRIOR TO ANY CLEARING.
- CLEAR AND GRUB AREA WITHIN THE LIMITS OF THE PROPOSED DAM CONSTRUCTION, ADHERING TO THE "BERM AND SOIL COMPACTION" NOTES. ALL TREES AND THEIR ENTIRE ROOT SYSTEMS MUST BE REMOVED FROM THE DAM FOOTPRINT AREA AND BACKFILLED WITH SUITABLE SOIL MATERIAL. THE BACKFILLED AREAS SHALL BE COMPACTED TO THE SAME STANDARDS AS THE DAM EMBANKMENT. THE REMAINING AREA OF THE EMBANKMENT SHALL BE STRIPPED TO A SUITABLE DEPTH AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER. ANY REMAINING SOILS TO BE LEFT IN PLACE MUST BE WELL CARRIED TO PROMOTE BONDING OF THE NEW EMBANKMENT FILL. NO EMBANKMENT MATERIAL SHALL BE PLACED FOR THE DAM OR KEY TRENCH UNTIL APPROVAL OF THE DAM SUBGRADE IS OBTAINED FROM THE ON-SITE GEOTECHNICAL ENGINEER.
- EXCAVATE FOR THE NEW KEY TRENCH ALONG THE CENTERLINE OF THE PROPOSED DAM EMBANKMENT. THE TRENCH SHALL EXTEND A MINIMUM OF 5 FT BELOW EXISTING GRADE OR 2 FT BELOW THE 48" RCP OUTLET BARREL AND SHALL HAVE A MINIMUM BOTTOM WIDTH OF 5 FEET. THE KEY TRENCH SIDESLOPES SHALL BE A MINIMUM OF 1:1 (H:V). WHEN EXCAVATING THE KEY TRENCH, IF ANY DEBRIS IS ENCOUNTERED TO AN EXTENT THAT SUCH DEBRIS MAY EXIST IN OTHER INSTANT PORTIONS OF THE DAM EMBANKMENT, IT SHOULD ALSO BE REMOVED. THE KEY TRENCH SHALL BE COMPACTED TO THE SAME SPECIFICATIONS LISTED IN ITEM 4 OF THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES. DEPENDING UPON ON-SITE SOIL CONDITIONS ENCOUNTERED DURING EXCAVATION, THE ON-SITE GEOTECHNICAL ENGINEER MAY VARY THE DEPTH AND DIMENSIONS OF THE KEY TRENCH AS DEEMED NECESSARY. THE ON-SITE GEOTECHNICAL ENGINEER SHALL RETAIN DOCUMENTATION OF ANY VARIATION FOR FUTURE AS-BUILT SUBMITTALS TO THE TOWN OF ROLESVILLE.
- BEGIN PLACEMENT OF BACKFILL WITHIN THE KEY TRENCH. THE KEY TRENCH SHALL BE COMPACTED TO THE SPECIFICATIONS LISTED IN ITEM 4 OF THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES. THE KEY TRENCH SHALL BE TESTED PER THE SPECIFICATIONS LISTED IN THAT SECTION.
- CONTRACTOR SHALL GIVE THE DESIGN ENGINEER A MINIMUM OF 72 HOURS NOTICE PRIOR TO THE INSTALLATION OF THE SPILLWAY.
- PRIOR TO INSTALLATION, SUBGRADE CONDITIONS ALONG THE SPILLWAY PIPES SHOULD BE EVALUATED BY THE ON-SITE GEOTECHNICAL ENGINEER TO ASSESS WHETHER SUITABLE BEARING CONDITIONS EXIST AT THE SUBGRADE LEVEL. SHOULD SOFT OR OTHERWISE UNSUITABLE CONDITIONS BE ENCOUNTERED ALONG THE PIPE ALIGNMENTS, THESE MATERIALS SHOULD BE UNDERCUT AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE UNDERCUT MATERIALS SHALL BE REPLACED WITH ADEQUATELY COMPACTED STRUCTURAL FILL, FINE CONCRETE OR FLOWABLE FILL AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- IN ORDER TO HELP PROTECT THE SOIL SUBGRADE FROM DETERIORATION (DUE TO EXPOSURE, RAINFALL, SEEPAGE, AND RUNOFF) BEFORE THE CRADLE CAN BE POURED, IT IS STRONGLY RECOMMENDED THAT A 3" TO 4" THICK CONCRETE MUD MAT BE POURED OVER THE SUBGRADE ONCE IT IS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE MUD MAT WILL ALSO PROVIDE BEARING FOR THE BLOCKS THAT TEMPORARILY SUPPORT THE SPILLWAY PIPE UNTIL THE CRADLE CAN BE POURED. THE METHOD OF BLOCK SUPPORT FOR THE PIPE PROPOSED BY THE CONTRACTOR SHOULD BE SUBMITTED TO THE JOHN R. McADAMS COMPANY FOR REVIEW.
- BEGIN CONSTRUCTION OF THE NEW EMBANKMENT. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8" THICK LIFTS PRIOR TO COMPACTION, UNLESS DIRECTED OTHERWISE BY THE ON-SITE GEOTECHNICAL ENGINEER. FILL LIFTS SHALL BE CONTINUOUS OVER THE ENTIRE LENGTH OF FILL. IF IT IS NECESSARY, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO FINAL GRADE IN ORDER TO ACHIEVE PROPER COMPACTION.
- AS CONSTRUCTION OF THE EMBANKMENT MOVES FORWARD, IT WILL BE NECESSARY TO INSTALL THE CONCRETE CRADLE. SEE NOTE ON CRADLE DETAIL (SHEET C9.02). THE PROPOSED STRUCTURAL FILL MATERIAL SHALL BE UTILIZED AS THE FORMWORK FOR THE CONCRETE CRADLE. THE STRUCTURAL FILL SHOULD BE INSTALLED AND COMPACTED UP TO THE TOP OF CONCRETE CRADLE ELEVATION. ONCE THE STRUCTURAL FILL REACHES THE NEXT DOWNSTREAM JUNCTION BOX OR HEADWALL AND IS COMPACTED TO THE ELEVATION OF THE TOP OF THE CONCRETE CRADLE, EXCAVATE THE CONCRETE CRADLE TRENCH PER THE PROVIDED DETAILS AND CONSTRUCT THE CONCRETE CRADLE AS PER THE PROVIDED CONCRETE CRADLE DETAIL. THE CRADLE SHALL NOT BE BEDDED ON STONE MATERIAL.
- INSTALL RISER / BARREL ASSEMBLY, ALONG WITH THE EMERGENCY DRAIN SYSTEM. INSTALL 48" RCP OUTLET BARREL SPILLWAY FILTER FROM THE DETAILS SHOWN ON SHEET C9.01.
- CONSTRUCT EMBANKMENT PER SPECIFICATIONS LISTED IN THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES AND REQUIREMENTS OF THE ON-SITE GEOTECHNICAL ENGINEER. ALL CHARACTERISTICS OF THE EMBANKMENT FILL MATERIAL SHALL MEET THE STANDARDS SET FORTH IN THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES, INCLUDING COMPACTION AND MOISTURE REQUIREMENTS. IF NECESSARY TO ACHIEVE PROPER COMPACTION, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO PROPER FINAL GRADE. ANY HAND COMPACTION ACTIVITIES AROUND SPILLWAY OR DRAIN STRUCTURES SHALL BE CONDUCTED IN 4-INCH LOOSE LIFTS AND BE TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT. ALL COMPACTION AND MOISTURE TESTING SHALL BE CARRIED OUT AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER AND AS LISTED IN THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES.
- UPON COMPLETION OF DAM EMBANKMENT, PROMPTLY STABILIZE AND SEED DAM EMBANKMENT PER SEEDING SCHEDULE. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER THE PERMANENT SEEDING SCHEDULE FOUND ON SHEET C9.03.
- SCHEDULE A FINAL AS-BUILT INSPECTION AND AS-BUILT SURVEY WITH THE ENGINEER AND SURVEYOR. AN AS-BUILT INSPECTION AND SURVEY SHALL BE SCHEDULED BEFORE IMPOUNDING WATER IN THE FACILITY AND A MINIMUM OF 60 DAYS PRIOR TO THE ANTICIPATED DATE OF CERTIFICATION APPROVAL. ANY COMMENTS OR DEFICIENCIES IN THE SCM CONSTRUCTION MUST BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AND OWNER BEFORE CERTIFICATION SHALL BE GRANTED.

## BERM AND SOIL COMPACTION SPECIFICATIONS

- PRIOR TO CONSTRUCTION, THE ON-SITE GEOTECHNICAL ENGINEER SHALL IDENTIFY BORROW / FILL AREAS AND VERIFY THEIR SUITABILITY FOR USE WITHIN THE DAM EMBANKMENT. ALSO, THE ON-SITE GEOTECHNICAL ENGINEER SHALL PERFORM STANDARD PROCTORS ON THE PROPOSED BORROW MATERIAL TO ENSURE THAT OPTIMUM MOISTURE CONTENT AND COMPACTION CAN BE ACHIEVED / CONTROLLED DURING CONSTRUCTION.
- ALL FILL MATERIALS TO BE USED FOR THE DAM EMBANKMENT SHALL BE TAKEN FROM BORROW AREAS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, WOOD, STONES GREATER THAN 6", AND FROZEN OR OTHER OBJECTIONABLE MATERIAL. THE FOLLOWING SOIL TYPES ARE SUITABLE FOR USE AS FILL WITHIN THE DAM EMBANKMENT AND KEY TRENCH: ML AND CL. ALL FILL MATERIALS SHALL BE APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER FOR THE INTENDED USE.
- FILL PLACEMENT FOR THE EMBANKMENT SHALL NOT EXCEED A MAXIMUM 8" LIFT (UNCOMPACTED). EACH LIFT SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF EMBANKMENT. BEFORE PLACEMENT OF FILL FOR THE BERM SECTION, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE SURFACE PROPERLY PREPARED FOR FILL PLACEMENT. FILL MATERIAL ADJACENT TO ALL SPILLWAY AND DRAINAGE STRUCTURES SHALL BE PLACED IN 4-INCH (UNCOMPACTED) LIFTS AND HAND-COMPACTED TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT.
- ALL FILL SOILS USED IN THE EMBANKMENT CONSTRUCTION SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). THE FILL SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN ±1 TO ±3 PERCENT OF ITS OPTIMUM MOISTURE CONTENT. COMPACTION TESTS SHALL BE PERFORMED BY THE ON-SITE GEOTECHNICAL ENGINEER DURING CONSTRUCTION TO VERIFY THAT THE PROPER COMPACTION LEVEL HAS BEEN REACHED. THE FILL SHOULD BE COMPACTED USING A SHEEPSFOOT TYPE COMPACTOR. IN ORDER TO PREVENT DAMAGE TO THE PIPE, NO COMPACTION EQUIPMENT SHALL CROSS ANY PIPE UNTIL MINIMUM COVER IS ESTABLISHED ALONG THE PIPE.
- THE DESIGN ENGINEER SHALL BE PROVIDED WITH REPORTS AND CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE GEOTECHNICAL ASPECTS OF THE FACILITY HAVE BEEN CONSTRUCTED PER PLAN. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY. THESE REPORTS AND CERTIFICATION WILL BE NEEDED DURING THE AS-BUILT CERTIFICATION PROCESS FOR THIS STORMWATER CONTROL MEASURE. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE TESTING AND OBSERVATION WITH THE ON-SITE GEOTECHNICAL ENGINEER.
- TESTING OF THE NEW FILL MATERIALS SHALL BE PERFORMED TO VERIFY THAT THE RECOMMENDED LEVEL OF COMPACTION IS ACHIEVED DURING CONSTRUCTION. THEREFORE, ONE DENSITY TEST SHALL BE PERFORMED FOR EVERY 2,500 SQUARE FEET OF AREA FOR EVERY LIFT OF FILL OR AS RECOMMENDED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- TESTING WILL BE REQUIRED ALONG THE 48" RCP OUTLET BARREL AT A FREQUENCY OF ONE TEST PER 25 LF OF PIPE PER VERTICAL FOOT OF FILL OR AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.

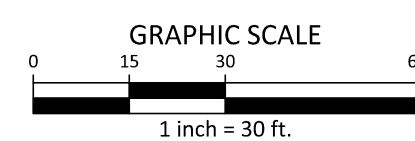
## STATEMENT OF RESPONSIBILITY

- ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THE STORMWATER CONTROL MEASURE SHALL BE THE RESPONSIBILITY OF THE OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.



STORMWATER WETPOND 'A' PLAN VIEW

1" = 30'



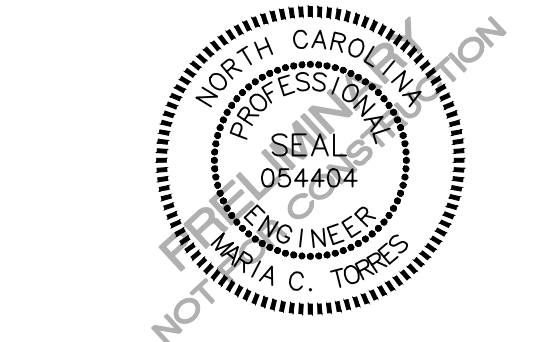
**McADAMS**  
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RALEIGH, NORTH CAROLINA 27615  
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PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



## REVISIONS

| NO. | DATE |
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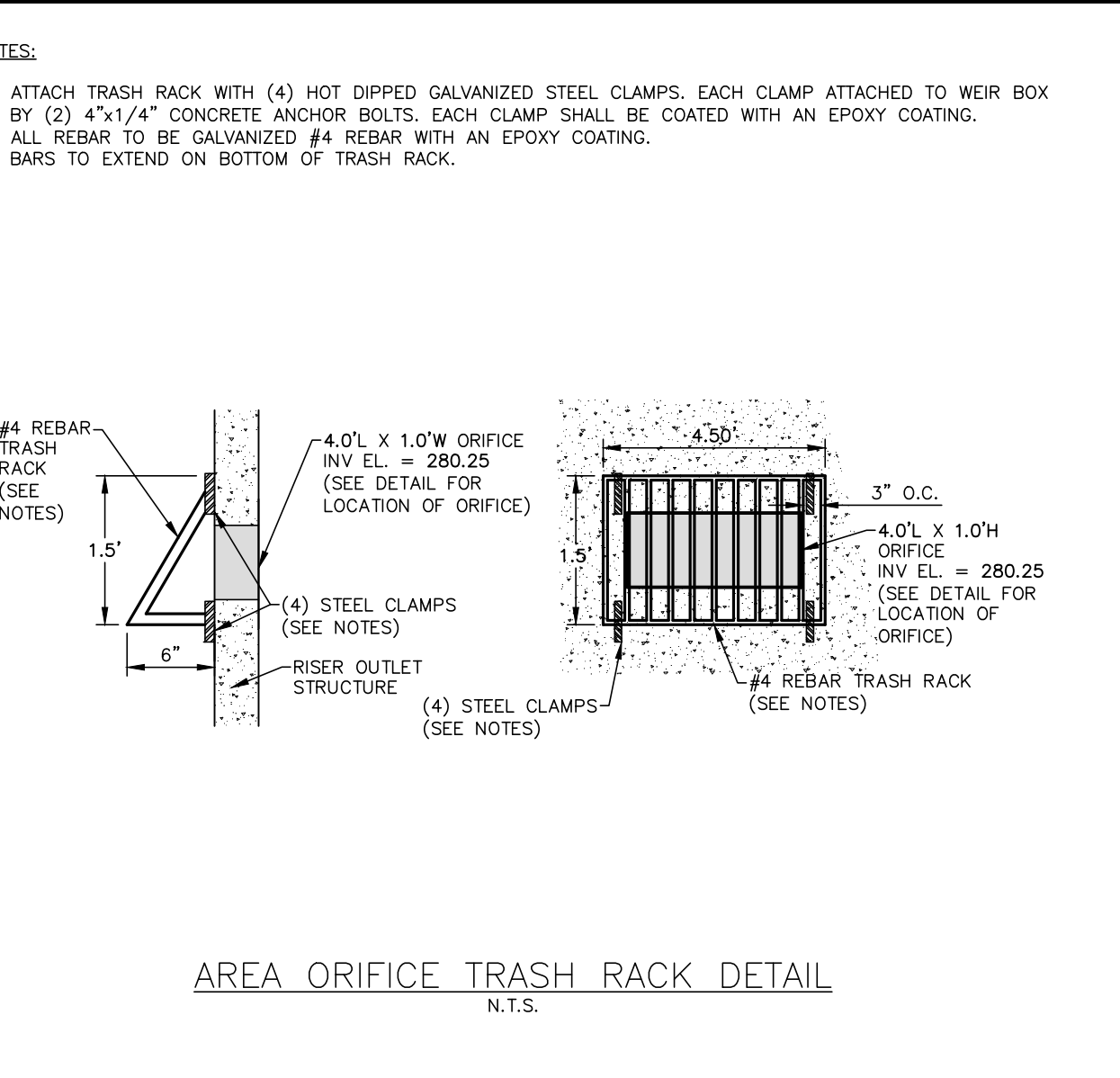
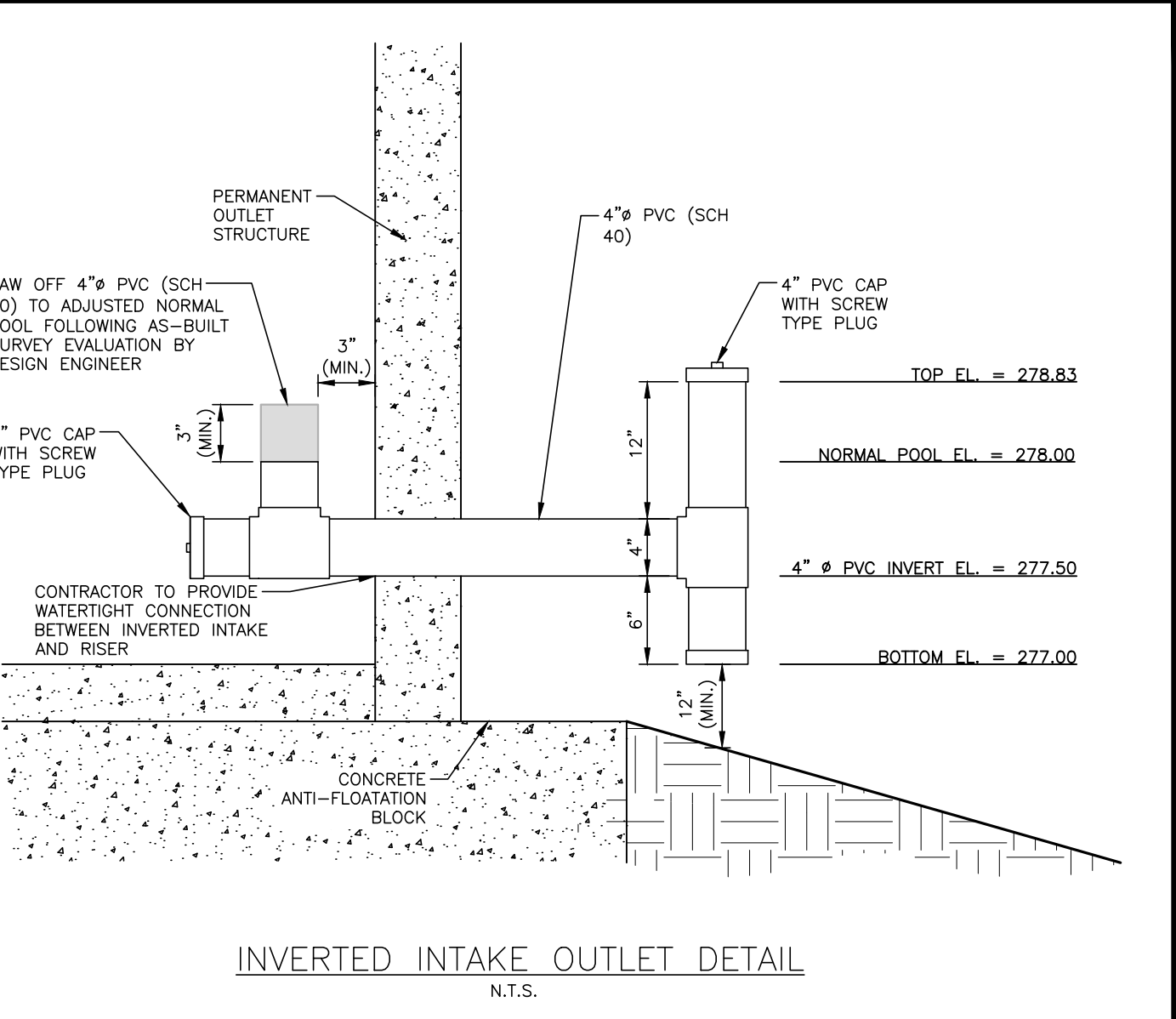
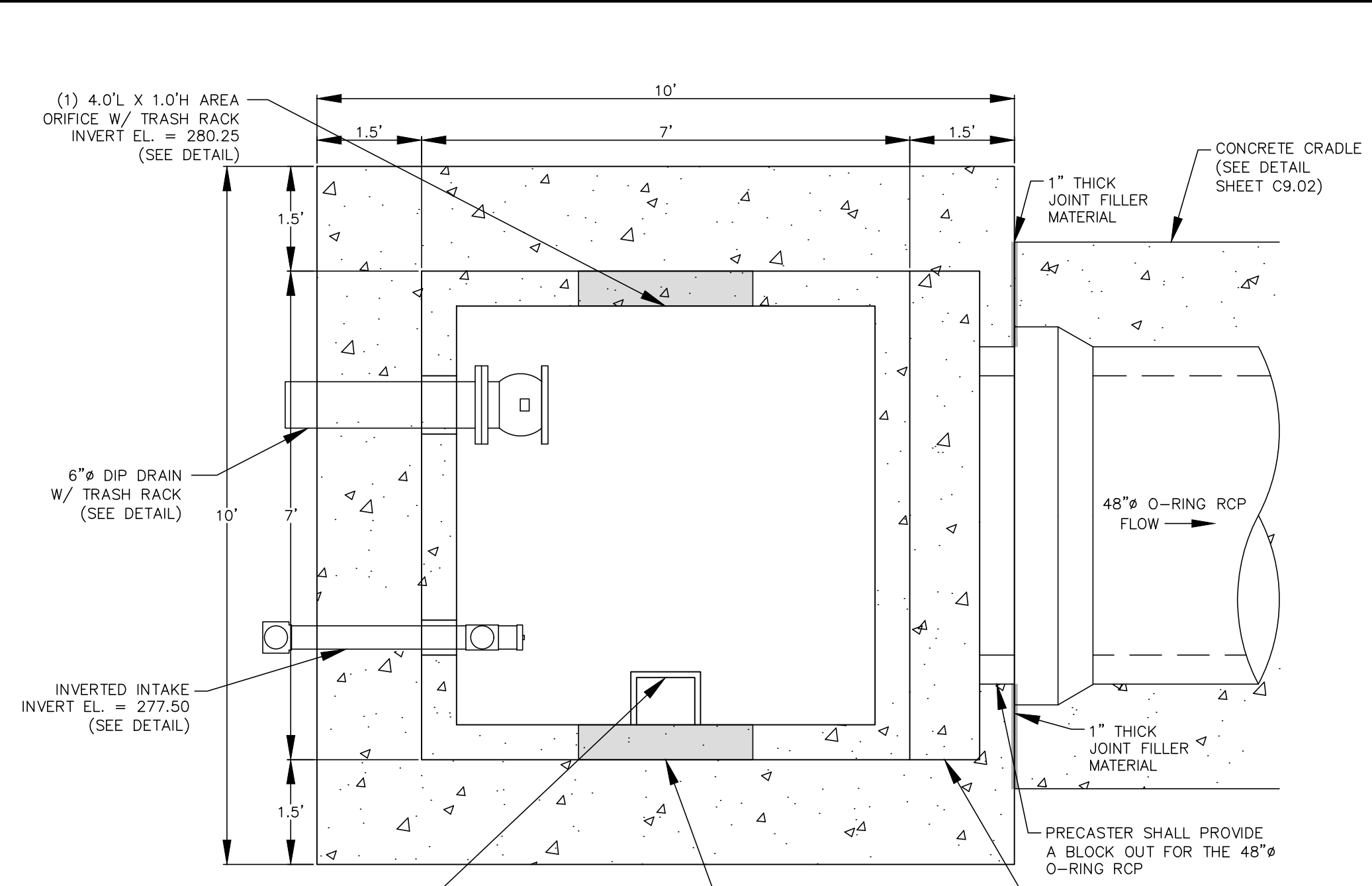
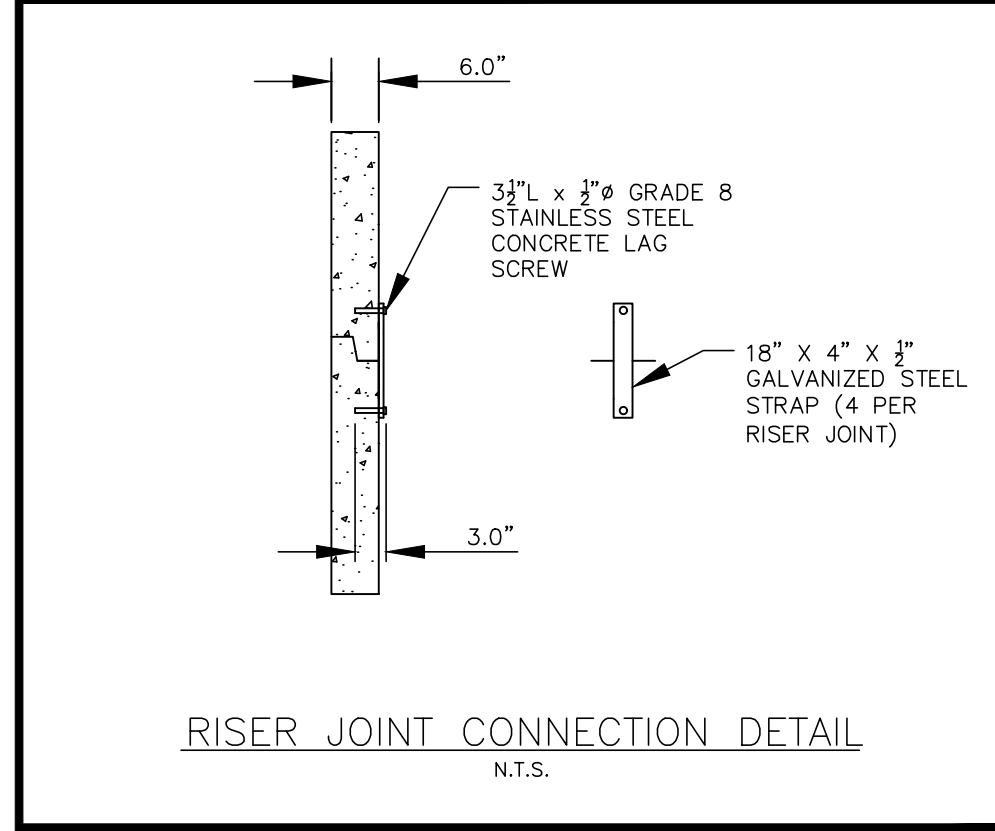
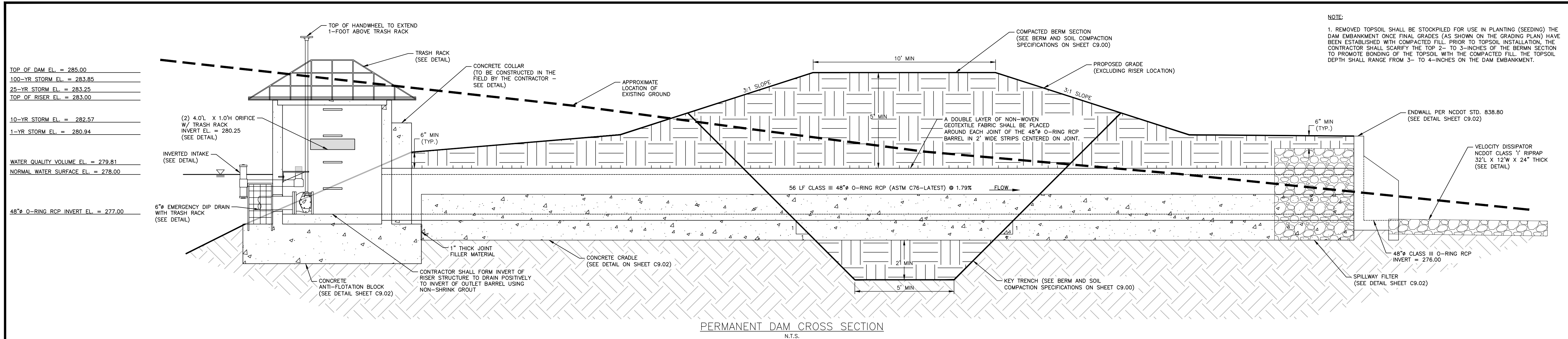
## PLAN INFORMATION

|             |               |
|-------------|---------------|
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| FILENAME    | AGN23001-SCMA |
| CHECKED BY  | MCT           |
| DRAWN BY    | MMJ           |
| SCALE       | 1"=30'        |
| DATE        | 12. 02. 2024  |

## SHEET

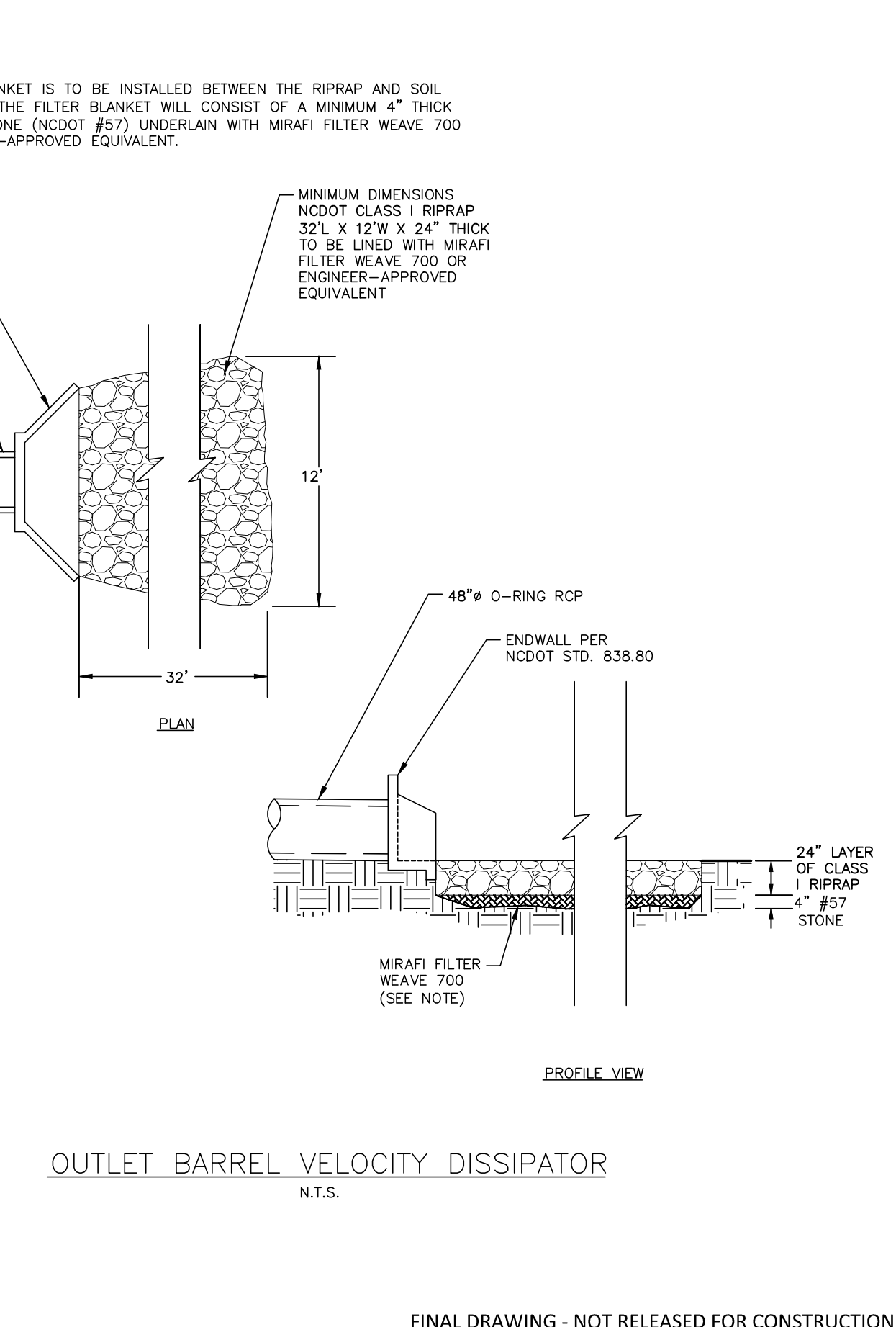
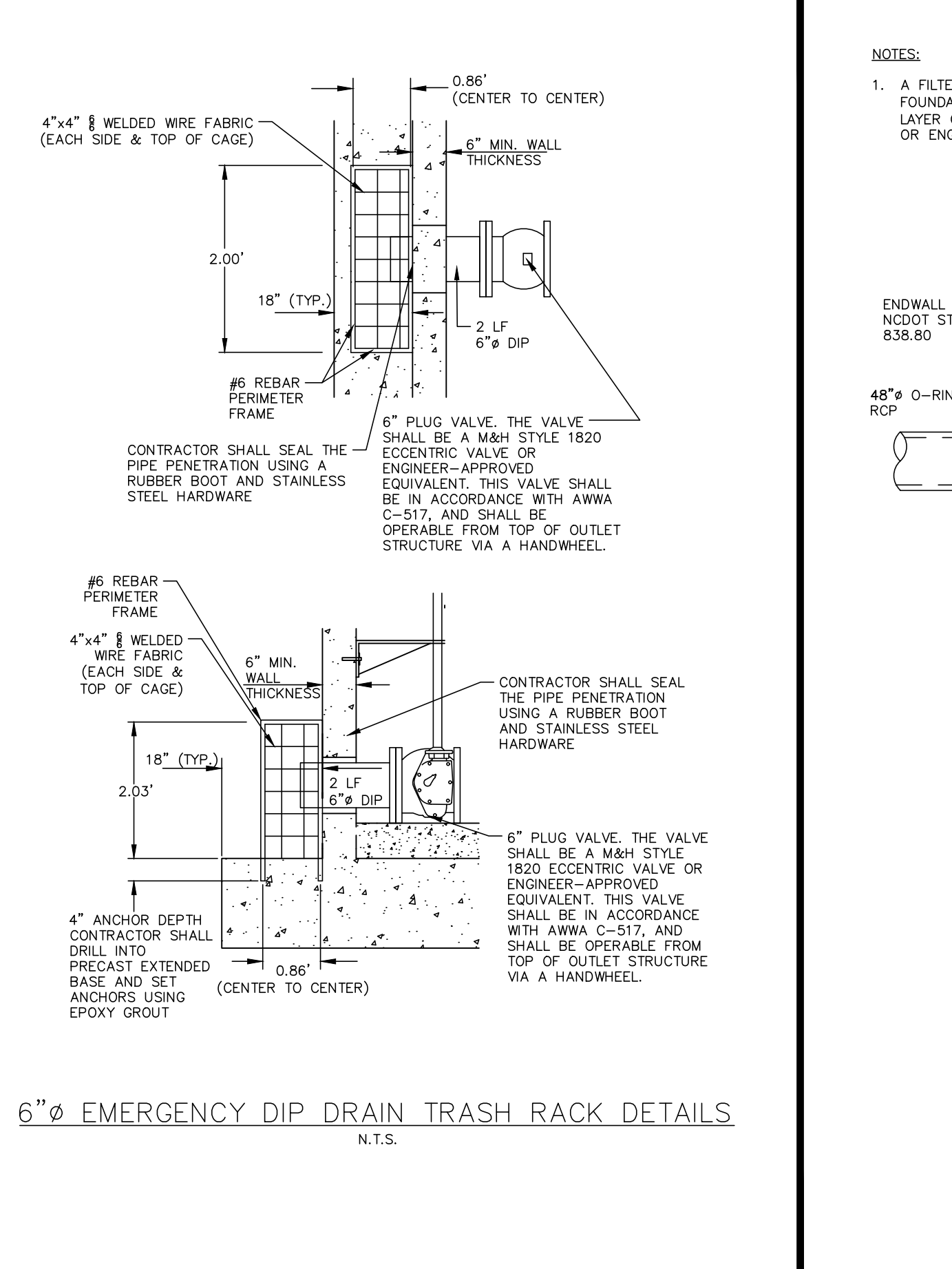
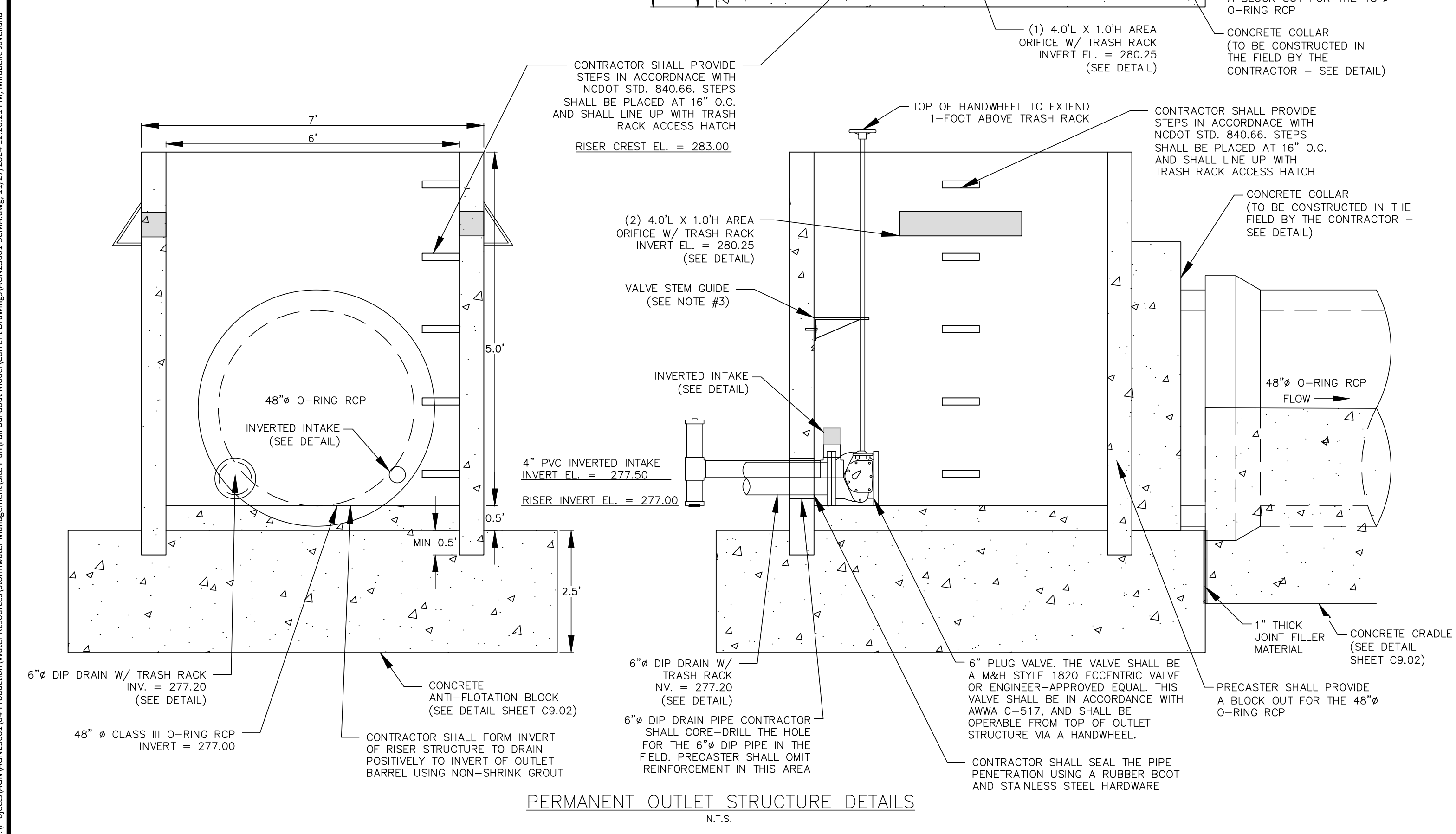
SCM A  
PLAN VIEW  
**C9.00**





**NOTES:**

1. CONCRETE ANTI-FLOTATION BLOCK TO BE PROVIDED WITH MINIMUM TEMPERATURE AND SHRINKAGE STEEL REINFORCEMENT.
2. TRASH RACKS NOT SHOWN FOR CLARITY.
3. THE NUMBER OF GUIDES FOR THE VALVE STEM SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THE VALVE STEM MUST BE OPERABLE FROM THE TOP OF THE RISER VIA THE HANDWHEEL WITH AN INSIGNIFICANT AMOUNT OF PLAY IN THE VALVE STEM.
4. CONTRACTOR SHALL PROVIDE A JOINT IN THE OUTLET BARREL NO MORE THAN 5-FT FROM THE RISER.



**REVISIONS**

| NO. | DATE |
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|     |      |

**PLAN INFORMATION**

|             |               |
|-------------|---------------|
| PROJECT NO. | AGN23001      |
| FILENAME    | AGN23001-SCMA |
| CHECKED BY  | MCT           |
| DRAWN BY    | MMJ           |
| SCALE       | N.T.S.        |
| DATE        | 12.02.2024    |







# STORMWATER CONTROL MEASURE 'A' PLANTING PLAN SPECIFICATIONS

## PLANT SCHEDULE

| SYMBOL               | CODE | QTY | COMMON NAME      | BOTANICAL NAME                 | CONT   | REMARKS       |
|----------------------|------|-----|------------------|--------------------------------|--------|---------------|
| <b>GROUND COVERS</b> |      |     |                  |                                |        |               |
|                      | AISM | 291 | Swamp Milkweed   | Asclepias incarnata            | 4" pot | Shallow Land  |
|                      | IVBF | 290 | Blue Flag Iris   | Iris virginica                 | 4" pot | Shallow Water |
|                      | LCCF | 276 | Cardinal Flower  | Labelia cardinalis             | 4" pot | Shallow Land  |
|                      | LELL | 269 | Longleaf Labelia | Labelia elongata               | 4" pot | Shallow Water |
|                      | PCPW | 284 | Pickereel Weed   | Pontederia cordata             | 4" pot | Shallow Water |
|                      | STSB | 293 | Softstem Bulrush | Schoenoplectus tabernaemontani | 4" pot | Shallow Water |

## SEEDBED PREPARATION

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3-4 INCHES DEEP OVER ADVERSE SOIL CONDITIONS. TOPSOIL SHOULD BE INCORPORATED INTO THE FINAL GRADING OF THE BASIN SIDE SLOPES AND SHALLOW LAND AND SHALLOW WATER AREAS. CONTRACTOR SHOULD SCARIFY THE TOP 3-4 INCHES OF THE COMPACTED FILL TO PROMOTE BONDING WITH TOPSOIL.
- RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- PER ONE TIME ONLY, APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. AFTER PERMANENT COVER IS ESTABLISHED.
- CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT.

## TEMPORARY SEEDING SCHEDULE

| SEEDING DATE    | SEEDING MIXTURE | APPLICATION RATE |
|-----------------|-----------------|------------------|
| JAN 1 - MAY 1   | RYE (GRAIN)     | 120 LBS/AC       |
| MAY 1 - AUG 15  | KOBE LESPEDEZA  | 50 LBS/AC        |
| AUG 15 - DEC 30 | GERMAN MILLET   | 40 LBS/AC        |
|                 | RYE (GRAIN)     | 120 LBS/AC       |

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 750 LB/AC 10-10-10 FERTILIZER (FROM AUG 15 - DEC 30, INCREASE 10-10-10 FERTILIZER TO 1000 LB/AC).

**MULCH**  
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
JAN 1 - AUG 15: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

AUG 15 - DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

**NOTE:** USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE PERMANENT SEEDING SCHEDULE.

## PERMANENT SEEDING SCHEDULE (DAM EMBANKMENTS)

| SEEDING DATE      | SEEDING MIXTURE      | APPLICATION RATE                               |
|-------------------|----------------------|--|
| MARCH 1 - JUNE 31 | HYBRID BERMUDA GRASS | 1 LBS/1000 SF (OR MANUFACTURER SPECIFICATIONS) |
| SEPT 1 - OCT 31   |                      | 1 LBS/1000 SF (OR MANUFACTURER SPECIFICATIONS) |

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

**MULCH**  
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

**NOTE:** PERMANENT SEEDING SCHEDULE IS FOR SLOPES OF THE BASIN AND TOP OF BERM.

## PLANTING INSTRUCTIONS

### PLANTING TECHNIQUES

- INSURE THAT ROOTS, ONCE REMOVED FROM POT, ARE STRAIGHTENED AND FACE DOWNWARD.
- CREATE PLANTING AREA FOR EACH PLANT AND EXCAVATE PIT.
- PLACE PLANTS IN PIT INSURING ROOTS ARE FACING COMPLETELY DOWNWARD.
- HEEL IN SOIL AROUND PLANT AND PROCEED TO NEXT PLANTING LOCATION.
- NEWLY PLANTED PLANTS NEED TO BE FASTENED TO THE SUBSTRATE FOR THE ESTABLISHMENT OF NEW ROOTS.
- ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS SHALL BE CUT OFF CLEANLY.
- THE DIAMETER OF THE PITS FOR ALL VEGETATIVE STOCK SHALL BE AT LEAST THREE TIMES THE DIAMETER OF THE ROOT MASS. PLANT PIT WALL SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
- SET THE PLANTS UPRIGHT, IN THE CENTER OF THE PIT. THE BOTTOM OF THE ROOT MASS SHOULD BE RESTING ON UNDISTURBED SOIL.
- PLACE THE BACKFILL AROUND THE BASE AND SIDES OF THE ROOT MASS, AND WORK EACH LAYER TO SETTLE BACKFILL AND TO ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF THE BACKFILL. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
- BROKEN OR DAMAGED PARTS WILL BE CUT BACK TO UNDAUNTED TISSUE, LEAVING AS MUCH GREEN BASAL TISSUE AS POSSIBLE ABOVE THE ROOTS. IF MORE THAN FIFTY PERCENT (50%) OF THE PLANT IS DAMAGED THEN CONTRACTOR SHALL REPLACE THE PLANT.

### CONTAINER STOCK / BARE ROOT

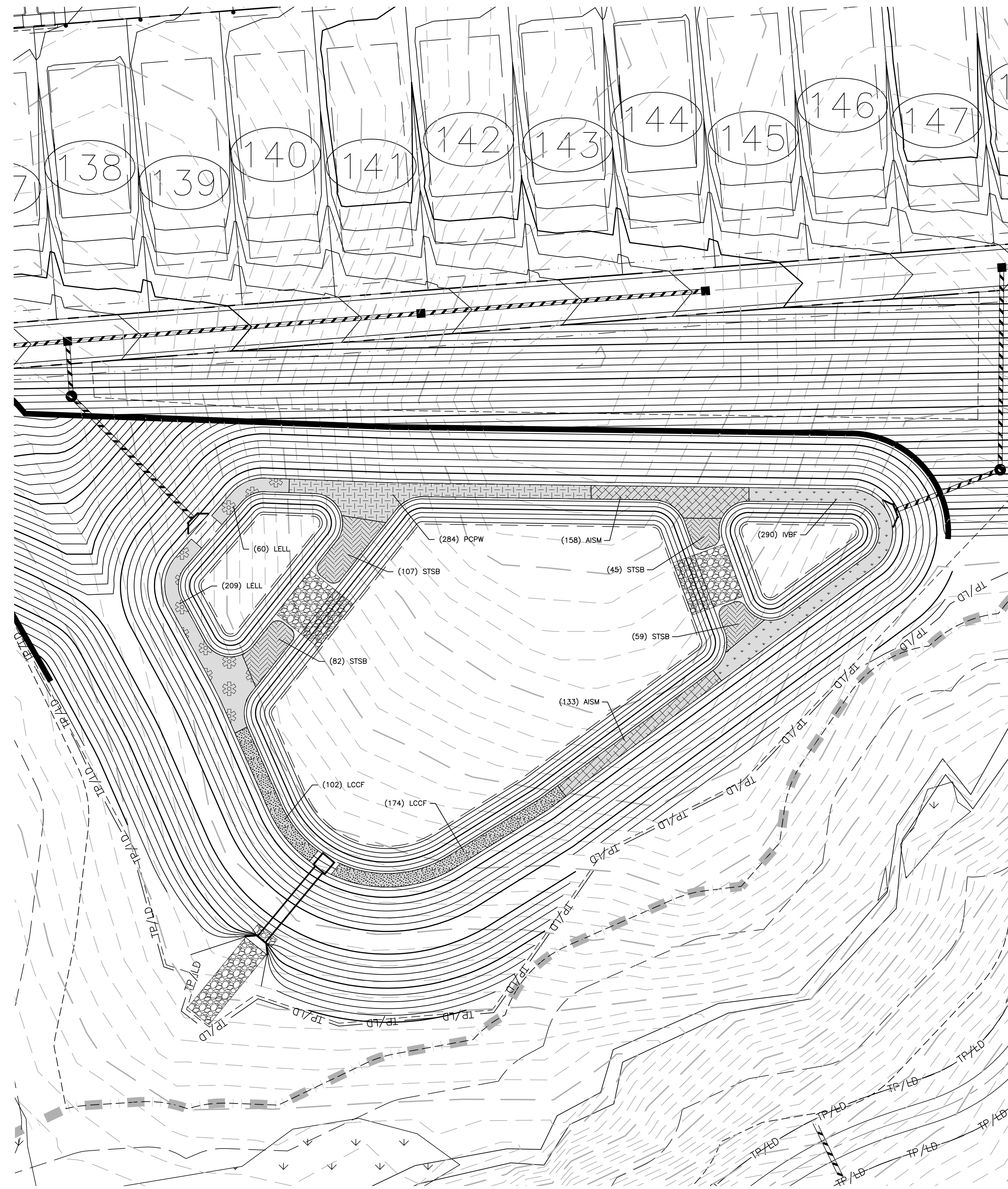
- STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER ONCE REMOVED FROM THE CONTAINER.
- CONTAINER PLANTS WILL NEED TO BE WATERED REGULARLY AND PLACED IN SHADY CONDITIONS UNTIL PLANTING OCCURS.
- BARE ROOT PLANTS ARE FOR IMMEDIATE PLANTING, OTHERWISE SEE D) BELOW.
- IF BARE ROOTS SPECIMENS ARE NOT TO BE PLANTED WITHIN FOUR (4) DAYS, TEMPORARY HOLDING OF BARE ROOT SPECIMENS ARE TO BE COVERED ENTIRELY BY A SUITABLE MEDIUM (ETC. SOIL, SAWDUST, MULCH OR THE LIKE) AND WATERED REGULARLY SO AS TO NOT DRY OUT.

### PLANT LOCATIONS

- NEW PLANTINGS SHALL BE LOCATED WHERE SHOWN ON PLAN EXCEPT WHERE CHANGES HAVE BEEN MADE IN PROPOSED CONSTRUCTION.
- NECESSARY ADJUSTMENTS SHALL BE MADE ONLY AFTER APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

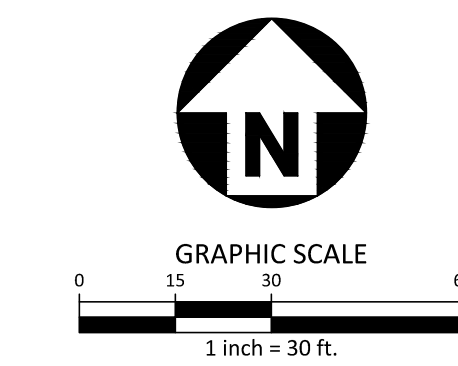
### WATER

WATER SHALL BE POTABLE AND SHALL NOT CONTAIN ELEMENTS TOXIC TO PLANT LIFE.



STORMWATER WETPOND 'A' LANDSCAPE PLAN

1" = 30'



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**AGNC**  
BROKERAGE | CONSULTING | PLANNING

**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

|             |               |
|-------------|---------------|
| PROJECT NO. | AGN23001      |
| FILENAME    | AGN23001-SCMA |
| CHECKED BY  | MCT           |
| DRAWN BY    | MMJ           |
| SCALE       | 1" = 30'      |
| DATE        | 12.01.2024    |

**SHEET**  
SCM A  
LANDSCAPE PLAN  
**C9.03**



# STORMWATER CONTROL MEASURE 'B' CONSTRUCTION SPECIFICATIONS

## GENERAL NOTES

- PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION IMMEDIATELY. IF THE CONTRACTOR, IN THE COURSE OF WORK, FINDS ANY DISCREPANCIES IN THE PLANS OR NOTES GIVEN BY THE PROJECT ENGINEER, IT SHALL BE THEIR DUTY TO IMMEDIATELY INFORM THE PROJECT ENGINEER IN WRITING. ANY WORK DONE AFTER SUCH A DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LICENSES AND PERMITS REQUIRED TO COMPLETE THE WORK INCLUDED IN THE CONTRACT DOCUMENTS AT THE CONTRACTOR'S EXPENSE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THEY AND THEIR SUBCONTRACTORS HAVE THE CORRECT AND MOST UP-TO-DATE PLANS AVAILABLE.
- THE PROJECT WILL MEET ALL RELEVANT DESIGN REQUIREMENTS IN THE NCDOT MANUAL AND THE TOWN OF ROLESVILLE REGULATIONS AND STANDARDS.
- THE DESIGN ENGINEER OR THEIR REPRESENTATIVE SHALL BE ON SITE FOR THE INSTALLATION OF ESSENTIAL ELEMENTS OF THE PRINCIPAL SPILLWAY INCLUDING BUT NOT LIMITED TO THE ANTI-FLOAT BLOCK, RISER, CONCRETE COLLAR, CONCRETE CRADLE, AND THE OUTLET BARREL. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER 72 HOURS PRIOR TO INSTALLATION OF THESE ITEMS TO ENSURE THAT A REPRESENTATIVE CAN BE ON-SITE. PHOTOGRAPHS OF THESE ITEMS MUST BE TAKEN PRIOR TO BACKFILLING FOR USE IN THE AS-BUILT PHASE. IF THE CONTRACTOR INSTALLS THESE WITHOUT THE ENGINEER OR ENGINEER'S REPRESENTATIVE ON-SITE, THEN THE ELEMENTS SHALL BE UNCOVERED FOR INSPECTION AT THE CONTRACTOR'S EXPENSE.
- THE FINAL CERTIFICATION FOR THIS FACILITY WILL INCLUDE A CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ON-SITE GEOTECHNICAL ENGINEER AND TESTING SUCH THAT THE ON-SITE GEOTECHNICAL ENGINEER CAN CERTIFY THE CONSTRUCTION OF THE DAM EMBANKMENT AND SPILLWAY. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY.
- ALL CONSTRUCTION ACTIVITY RELATED TO THE PROPOSED STORMWATER CONTROL MEASURE SHALL BE PER THE DETAILS AND SPECIFICATIONS SHOWN IN THESE DRAWINGS, SOILS, COMPACTION, AND OTHER MISCELLANEOUS DETAILS AND SPECIFICATIONS MAY BE MODIFIED PER THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER. HOWEVER, PRIOR TO IMPLEMENTATION, THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DEVIATION FROM THESE DESIGN DRAWINGS, INCLUDING SHOP DRAWINGS FOR ANY PROPOSED MODIFICATION.
- DURING THE INITIAL STAGES OF CONSTRUCTION, THE STORMWATER CONTROL MEASURE MAY BE USED AS A SEDIMENT BASIN FOR EROSION CONTROL PURPOSES. IF SO, THE CONTRACTOR SHALL FOLLOW THE GENERAL CONSTRUCTION SEQUENCE BELOW:
  - THE CONTRACTOR SHALL CONSTRUCT THE ENTIRE FACILITY (PERMANENT OUTLET STRUCTURE, DAM, ETC.) WITH THE EXCEPTION OF THE INTERIOR FINE GRADING FOR THE FACILITY. THE INTERIOR FINE GRADING WILL BE CONSTRUCTED ONCE THE EROSION CONTROL PHASE IS COMPLETE.
  - THE TEMPORARY DRAWDOWN RISER (OR SKIMMER) SHALL BE CONNECTED TO THE PERMANENT 6" DIP DRAIN PIPE.
  - ONCE THE UPSTREAM DRAINAGE AREA IS STABILIZED AND THE EROSION CONTROL INSPECTOR APPROVES THE REMOVAL OF THE SEDIMENT BASIN, THE CONTRACTOR SHALL REMOVE THE TEMPORARY DRAWDOWN RISER (OR SKIMMER) AND CLEAN OUT THE BASIN IN ACCORDANCE WITH EROSION CONTROL STANDARDS. ALL SEDIMENT, TRASH, ETC. SHALL BE PROPERLY DISPOSED OF PROPERLY (I.E. PLACED IN A LANDFILL) AND NOT STOCKPILED IN AN AREA WHERE WATER QUALITY COULD BE ADVERSELY AFFECTED.
  - ONCE THE BASIN IS CLEANED OUT, AND ALL EROSION CONTROL DEVICES REMOVED, THE CONTRACTOR SHALL CONSTRUCT THE INTERIOR GRADING SHOWN ON THIS SHEET.
  - ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER CONTROL MEASURE PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.
  - ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER CONTROL MEASURE PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER CONTROL MEASURE PLANTING PLAN.
- ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. McADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.
- ON-SITE GEOTECHNICAL ENGINEER SHALL DETERMINE THE IN-SITU SOIL INFILTRATION RATE OF THE STORMWATER CONTROL MEASURE BOTTOM. BASED ON THE RESULTS, THE DESIGN ENGINEER SHALL DETERMINE IF A LINER WILL BE NEEDED TO MAINTAIN A PERMANENT POOL. UPON DETERMINATION OF HIGHLY PERMEABLE SOILS AND THE SEASONAL HIGH WATER TABLE OUTSIDE OF THE ACCEPTABLE RANGE, THE DESIGN ENGINEER WILL PROVIDE SPECIFICATIONS FOR THE LINER.
- IT IS ANTICIPATED THAT DEWATERING WILL BE NECESSARY IN THE EXCAVATION AREAS (E.G., EMBANKMENT SUB GRADE, INTERIOR PORTIONS OF THE EMBANKMENT, CONCRETE CRADLE, AND KEY TRENCH). THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE STORMWATER CONTROL MEASURE SITE. DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY NEED TO BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE PRIOR TO DISCHARGE).
- PRIOR TO TOPSOIL INSTALLATION, THE CONTRACTOR SHALL SCARIFY THE TOP 2-3" OF THE BERM SECTION TO PROMOTE BONDING OF THE TOPSOIL WITH THE COMPACT FILL. THE TOPSOIL DEPTH SHALL RANGE FROM 3-4" ON THE DAM EMBANKMENT AND AQUATIC SHELF. PLEASE NOTE THE TOPSOIL SHALL BE AMENDED AS DIRECTED BY A LANDSCAPE PROFESSIONAL PRIOR TO INSTALLATION ON THE EMBANKMENT AND AQUATIC SHELF.
- THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY PERIOD FOR ALL PLANTINGS IN THE STORMWATER CONTROL MEASURE.
- THE CONTRACTOR SHALL REFER TO THE LANDSCAPING PLAN FOR THE PERMANENT PLANTING PLAN/SCHEDULE FOR THIS FACILITY. CONTRACTOR SHALL COORDINATE WITH A LANDSCAPE PROFESSIONAL REGARDING SCHEDULING FOR PLANT INSTALLATION. PLEASE NOTE THAT NO TREES/SHRUBS OF ANY TYPE MAY BE PLANTED ON FILL AREAS OF THE PROPOSED DAM EMBANKMENT.
- RETAINING WALL ALIGNMENT SHOWN ON THESE PLANS DEPICTS THE LOCATION OF THE FRONT FACE OF THE RETAINING WALL AT THE BOTTOM.
- RETAINING WALL IS TO BE A DESIGN-BUILD PROJECT BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FINAL CONSTRUCTION DRAWINGS FROM A REGISTERED PROFESSIONAL ENGINEER AND GAIN ALL REQUIRED PERMITS NECESSARY FOR THE CONSTRUCTION OF THE RETAINING WALL.
- RETAINING WALL SHALL BE ASSUMED TO BE BACKFILLED WITH OFF-SITE BORROW MATERIAL OR PROCESSED FILL UNLESS CONTRACTOR CAN PROVIDE OWNER WITH CONFIRMATION FROM THE GEOTECHNICAL ENGINEER AND THE RETAINING WALL DESIGNER THAT READILY AVAILABLE ON-SITE SOILS CAN BE USED.
- TOP AND BOTTOM OF WALL ELEVATIONS REFERENCED ON THESE PLANS IDENTIFY FINISHED GRADE ELEVATIONS ONLY. THE EXTENT THAT THE RETAINING WALL WILL BE EXTENDED BELOW GRADE TO THE FOOTING SHALL BE IDENTIFIED ON THE RETAINING WALL CONSTRUCTION DRAWINGS.
- ON-SITE GEOTECHNICAL ENGINEER SHOULD BE GIVEN AN OPPORTUNITY TO REVIEW ALL RETAINING WALL PLANS AND DESIGNS RELEVANT TO GEOTECHNICAL CONSIDERATIONS PRIOR TO FINAL DESIGN OF THE WALLS.

## OUTLET STRUCTURE MATERIAL SPECIFICATIONS

- THE 48" RCP OUTLET BARREL SHALL BE CLASS III O-RING RCP, MODIFIED BELL AND SPIGOT, MEETING THE REQUIREMENTS OF ASTM C76-LATEST. THE PIPES SHALL HAVE SINGLE OFFSET JOINTS MEETING ASTM C-443-LATEST.
- THE STRUCTURAL DESIGN FOR THE 6' X 6' (INTERNAL DIMENSIONS) RISER BOX WITH EXTENDED BASE SHALL BE BY OTHERS. PRIOR TO ORDERING THE STRUCTURES, THE CONTRACTOR SHALL PROVIDE TO THE DESIGN ENGINEER FOR REVIEW, SHOP DRAWINGS AND SUPPORTING STRUCTURAL CALCULATIONS SEALED BY A P.E. REGISTERED IN NORTH CAROLINA DEMONSTRATING THE PERTINENT VERTICAL LOADS ARE SUPPORTED BY THE CONCRETE RISER STRUCTURE.
- THE RISER BOX OUTLET STRUCTURE SHALL BE PROVIDED WITH STEPS 16" ON CENTER. STEPS SHALL BE PROVIDED ON THE INNER WALL OF THE RISER BOX. STEPS SHALL BE IN ACCORDANCE WITH NCDOT STD. 840.66. PLEASE REFER TO SHEET C9.06 FOR LOCATION OF THE RISER STEPS. NOTE THE STEPS SHALL LINE UP WITH THE ACCESS HATCH OF THE TRASH RACK.
- THE CONCRETE ANTI-FLOTATION BLOCK SHALL BE CAST-IN-PLACE. STEEL REINFORCEMENT AND CONNECTION TO THE RISER SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAIL ON SHEET C9.06. THE CONTRACTOR SHALL ENSURE THE WEIGHT OF THE ENTIRE RISER STRUCTURE IS GREATER THAN OR EQUAL TO 48,445 LBS.
- THE RISER BOX JOINTS SHALL BE SEALED USING BUTYL RUBBER SEALANT CONFORMING TO ASTM C-990-LATEST. IF NECESSARY, THE CONTRACTOR SHALL INCORPORATE A WATERSTOP INTO THE RISER BOX JOINT TO ENSURE A WATERTIGHT CONNECTION. THE CONTRACTOR SHALL PATCH JOINTS ON BOTH THE INSIDE AND OUTSIDE WITH NON-SHRINKING GROUT AND INSTALL GALVANIZED STEEL STRAPS PER DETAIL ON SHEET C9.05.
- PRIOR TO ORDERING, THE CONTRACTOR SHALL SUBMIT TRASH RACK SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL ENSURE THAT AN ACCESS HATCH IS PROVIDED ON THE TRASH RACK (SEE DETAIL SHEET C9.05 FOR LOCATION) THAT WILL ALLOW FOR FUTURE MAINTENANCE ACCESS. NOTE THE ACCESS HATCH SHALL LINE UP WITH THE ACCESS STEPS AFTER INSTALLATION.
- ALL Poured CONCRETE SHALL MEET THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE NOTED:
  - MINIMUM 3000 PSI (28 DAY)
  - SLUMP = 3" - 5"
  - ENTRAINED AIR = 5% - 7%
 PLEASE NOTE NO CONCRETE SHALL BE POURED WHEN THE AMBIENT AIR TEMPERATURES ARE EXPECTED TO BE ABOVE 85°F OR BELOW 40°F. CAST-IN-PLACE CONCRETE SHALL BE "WET CURED" AFTER FINISHING FOR A MINIMUM OF 48 HOURS.

CAST-IN-PLACE CONCRETE TO BE VIBRATED AS NECESSARY.

ON-SITE GEOTECHNICAL ENGINEER TO TEST AND CERTIFY ALL Poured CONCRETE MEETS THE ABOVE SPECIFICATIONS. CONCRETE CYLINDERS FOR TESTING TO BE OBTAINED AT TIME OF POURING OF CAST-IN-PLACE STRUCTURES.

8. GEOTEXTILE FABRIC FOR THE 48" RCP OUTLET BARREL JOINTS SHALL BE MIRAF1 180N OR ENGINEER APPROVED EQUAL (NON-WOVEN FABRIC).

- STORMWATER CONTROL MEASURE EMERGENCY DRAWDOWN IS VIA AN 6" PLUG VALVE. THE VALVE SHALL BE A M&M STYLE 1820 ECCENTRIC VALVE OR APPROVED EQUAL. THIS VALVE IS IN ACCORDANCE WITH ANWA C-517, AND SHALL BE OPERABLE FROM TOP OF OUTLET STRUCTURE VIA A HAND WHEEL (SEE DETAIL SHEET C9.05). THE CONTRACTOR SHALL PROVIDE A REMOVABLE VALVE WRENCH WITH A HAND WHEEL ON TOP FOR OPERATION OF THE 6" PLUG VALVE.

## CONSTRUCTION SEQUENCE

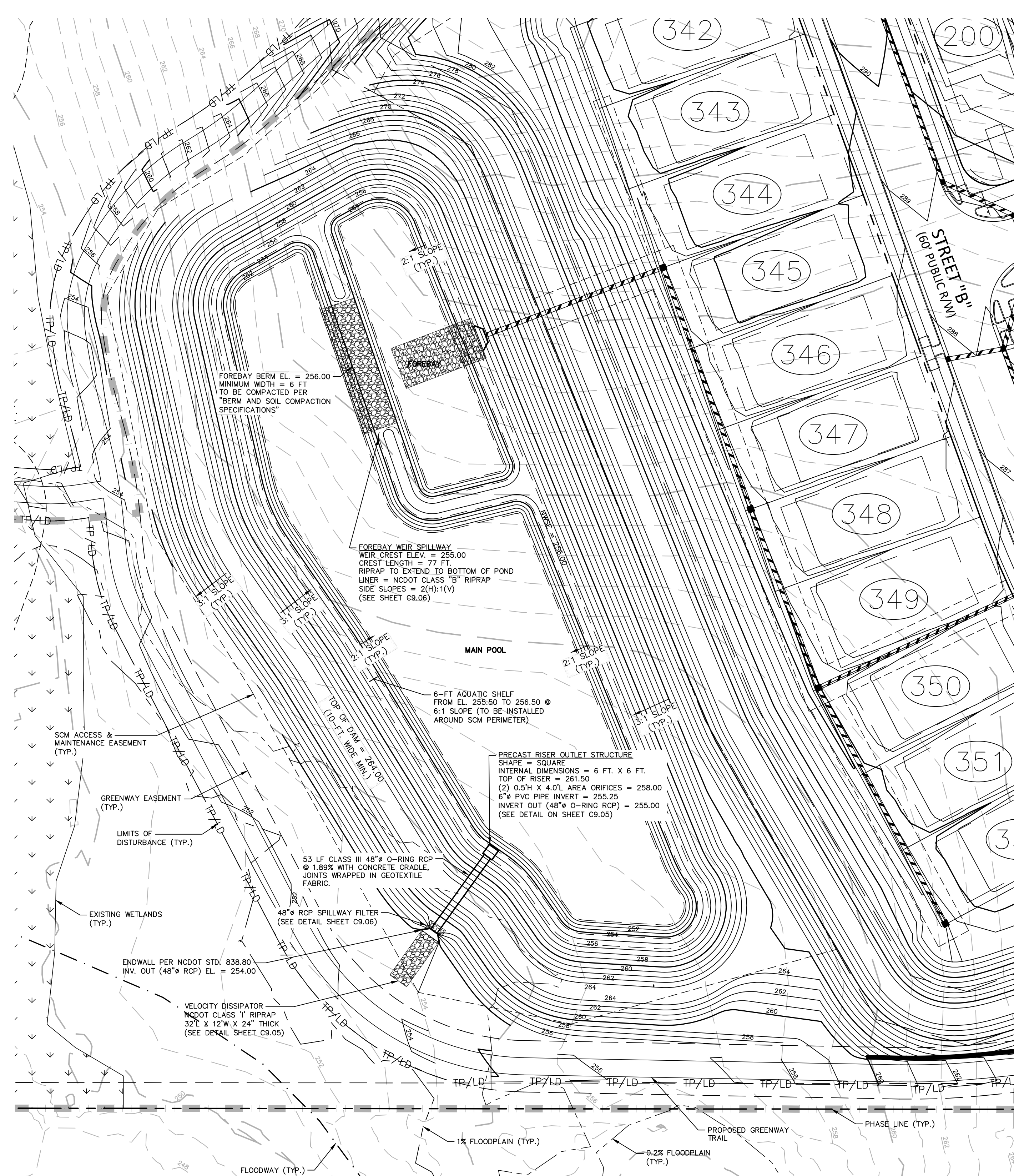
- PRIOR TO CONSTRUCTION, THE OWNER SHALL OBTAIN A LAND DISTURBING (GRADING) PERMIT AND AN "APPROVAL TO CONSTRUCT" FROM THE TOWN OF ROLESVILLE AND ALL OTHER NECESSARY PERMITS FROM APPLICABLE AGENCIES (E.G. 404 / 401 PERMITS).
- INSTALL ALL SEDIMENT AND EROSION CONTROL MEASURES PER THE APPROVED SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR SHALL MAINTAIN ALL APPROVED SEDIMENT AND EROSION CONTROL MEASURES THROUGHOUT THE ENTIRE PROJECT, AS REQUIRED. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE EROSION CONTROL INSPECTOR, AS REQUIRED BY GOVERNING AGENCIES, PRIOR TO ANY CLEARING.
- CLEAR AND GRUB AREA WITHIN THE LIMITS OF THE PROPOSED DAM CONSTRUCTION, ADHERING TO THE "BERM AND SOIL COMPACTION" NOTES. ALL TREES AND THEIR ENTIRE ROOT SYSTEMS MUST BE REMOVED FROM THE DAM FOOTPRINT AREA AND BACKFILLED WITH SUITABLE SOIL MATERIAL. THE BACKFILLED AREAS SHALL BE COMPACTED TO THE SAME STANDARDS AS THE DAM EMBANKMENT. THE REMAINING AREA OF THE EMBANKMENT SHALL BE STRIPPED TO A SUITABLE DEPTH AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER. ANY REMAINING SOILS TO BE LEFT IN PLACE MUST BE WELL CARRIED TO PROMOTE BONDING OF THE NEW EMBANKMENT FILL. NO EMBANKMENT MATERIAL SHALL BE PLACED FOR THE DAM OR KEY TRENCH UNTIL APPROVAL OF THE DAM SUBGRADE IS OBTAINED FROM THE ON-SITE GEOTECHNICAL ENGINEER.
- EXCAVATE FOR THE NEW KEY TRENCH ALONG THE CENTERLINE OF THE PROPOSED DAM EMBANKMENT. THE TRENCH SHALL EXTEND A MINIMUM OF 5 FT BELOW EXISTING GRADE OR 2 FT BELOW THE 48" RCP OUTLET BARREL AND SHALL HAVE A MINIMUM BOTTOM WIDTH OF 5 FEET. THE KEY TRENCH SIDESLOPES SHALL BE A MINIMUM OF 1:1 (H:V). WHEN EXCAVATING THE KEY TRENCH, IF ANY DEBRIS IS ENCOUNTERED TO AN EXTENT THAT SUCH DEBRIS MAY EXIST IN OTHER INSITU PORTIONS OF THE DAM EMBANKMENT, IT SHOULD ALSO BE REMOVED. THE KEY TRENCH SHALL BE COMPACTED TO THE SAME SPECIFICATION LISTED IN ITEM 4 OF THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES. DEPENDING UPON ON-SITE SOIL CONDITIONS ENCOUNTERED DURING EXCAVATION, THE ON-SITE GEOTECHNICAL ENGINEER MAY VARY THE DEPTH AND DIMENSIONS OF THE KEY TRENCH AS DEEMED NECESSARY. THE ON-SITE GEOTECHNICAL ENGINEER SHALL RETAIN DOCUMENTATION OF ANY VARIATION FOR FUTURE AS-BUILT SUBMITTALS TO THE TOWN OF ROLESVILLE.
- BEGIN PLACEMENT OF BACKFILL WITHIN THE KEY TRENCH. THE KEY TRENCH SHALL BE COMPACTED TO THE SPECIFICATIONS LISTED IN ITEM 4 OF THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES. THE KEY TRENCH SHALL BE TESTED PER THE SPECIFICATIONS LISTED IN THAT SECTION.
- CONTRACTOR SHALL GIVE THE DESIGN ENGINEER A MINIMUM OF 72 HOURS NOTICE PRIOR TO THE INSTALLATION OF THE SPILLWAY.
- PRIOR TO INSTALLATION, SUBGRADE CONDITIONS ALONG THE SPILLWAY PIPES SHOULD BE EVALUATED BY THE ON-SITE GEOTECHNICAL ENGINEER TO ASSESS WHETHER SUITABLE BEARING CONDITIONS EXIST AT THE SUBGRADE LEVEL. SHOULD SOFT OR OTHERWISE UNSUITABLE CONDITIONS BE ENCOUNTERED ALONG THE PIPE ALIGNMENTS, THESE MATERIALS SHOULD BE UNDERCUT AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE UNDERCUT MATERIALS SHALL BE REPLACED WITH ADEQUATELY COMPACTED STRUCTURAL FILL, LIME CONCRETE OR FLOWABLE FILL AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- IN ORDER TO HELP PROTECT THE SOIL SUBGRADE FROM DETERIORATION (DUE TO EXPOSURE, RAINFALL, SEEPAGE, AND RUNOFF) BEFORE THE CRADLE CAN BE POURED, IT IS STRONGLY RECOMMENDED THAT A 3" TO 4" THICK CONCRETE MUD MAT BE POURED OVER THE SUBGRADE ONCE IT IS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE MUD MAT WILL ALSO PROVIDE BEARING FOR THE BLOCKS THAT TEMPORARILY SUPPORT THE SPILLWAY PIPE UNTIL THE CRADLE CAN BE POURED. THE METHOD OF BLOCK SUPPORT FOR THE PIPE PROPOSED BY THE CONTRACTOR SHOULD BE SUBMITTED TO THE JOHN R. McADAMS COMPANY FOR REVIEW.
- BEGIN CONSTRUCTION OF THE NEW EMBANKMENT. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8" THICK LIFTS PRIOR TO COMPACTION, UNLESS DIRECTED OTHERWISE BY THE ON-SITE GEOTECHNICAL ENGINEER. FILL LIFTS SHALL BE CONTINUOUS OVER THE ENTIRE LENGTH OF FILL. IF IT IS NECESSARY, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO FINAL GRADE IN ORDER TO ACHIEVE PROPER COMPACTION.
- AS CONSTRUCTION OF THE EMBANKMENT MOVES FORWARD, IT WILL BE NECESSARY TO INSTALL THE CONCRETE CRADLE. SEE NOTE ON CRADLE DETAIL (SHEET C9.06). THE PROPOSED STRUCTURAL FILL MATERIAL SHALL BE UTILIZED AS THE FORMWORK FOR THE CONCRETE CRADLE. THE STRUCTURAL FILL SHOULD BE INSTALLED AND COMPACTED UP TO THE TOP OF CONCRETE CRADLE ELEVATION. ONCE THE STRUCTURAL FILL REACHES THE NEXT DOWNSTREAM JUNCTION BOX OR HEADWALL AND IS COMPACTED TO THE ELEVATION OF THE TOP OF THE CONCRETE CRADLE, EXCAVATE THE CONCRETE CRADLE TRENCH PER THE PROVIDED DETAILS AND CONSTRUCT THE CONCRETE CRADLE AS PER THE PROVIDED CONCRETE CRADLE DETAIL. THE CRADLE SHALL NOT BE BEDDED ON STONE MATERIAL.
- INSTALL RISER / BARREL ASSEMBLY, ALONG WITH THE EMERGENCY DRAIN SYSTEM. INSTALL 48" RCP OUTLET BARREL SPILLWAY FILTER FROM THE DETAILS SHOWN ON SHEET C9.05.
- CONSTRUCT EMBANKMENT PER SPECIFICATIONS LISTED IN THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES AND REQUIREMENTS OF THE ON-SITE GEOTECHNICAL ENGINEER. ALL CHARACTERISTICS OF THE EMBANKMENT FILL MATERIAL SHALL MEET THE STANDARDS SET FORTH IN THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES, INCLUDING COMPACTION AND MOISTURE REQUIREMENTS. IF NECESSARY TO ACHIEVE PROPER COMPACTION, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO PROPER FINAL GRADE. ANY HAND COMPACTION ACTIVITIES AROUND SPILLWAY OR DRAIN STRUCTURES SHALL BE CONDUCTED IN 4-INCH LOOSE LIFTS AND BE TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT. ALL COMPACTION AND MOISTURE TESTING SHALL BE CARRIED OUT AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER AND AS LISTED IN THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES.
- UPON COMPLETION OF DAM EMBANKMENT, PROMPTLY STABILIZE AND SEED DAM EMBANKMENT PER SEEDING SCHEDULE. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER THE PERMANENT SEEDING SCHEDULE FOUND ON SHEET C9.07.
- SCHEDULE A FINAL AS-BUILT INSPECTION AND AS-BUILT SURVEY WITH THE ENGINEER AND SURVEYOR. AN AS-BUILT INSPECTION AND SURVEY SHALL BE SCHEDULED BEFORE IMPOUNDING WATER IN THE FACILITY AND A MINIMUM OF 60 DAYS PRIOR TO THE ANTICIPATED DATE OF CERTIFICATION APPROVAL. ANY COMMENTS OR DEFICIENCIES IN THE SCM CONSTRUCTION MUST BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AND OWNER BEFORE CERTIFICATION SHALL BE GRANTED.

## BERM AND SOIL COMPACTION SPECIFICATIONS

- PRIOR TO CONSTRUCTION, THE ON-SITE GEOTECHNICAL ENGINEER SHALL IDENTIFY BORROW / FILL AREAS AND VERIFY THEIR SUITABILITY FOR USE WITHIN THE DAM EMBANKMENT. ALSO, THE ON-SITE GEOTECHNICAL ENGINEER SHALL PERFORM STANDARD PROCTORS ON THE PROPOSED BORROW MATERIAL TO ENSURE THAT OPTIMUM MOISTURE CONTENT AND COMPACTION CAN BE ACHIEVED / CONTROLLED DURING CONSTRUCTION.
- ALL FILL MATERIALS TO BE USED FOR THE DAM EMBANKMENT SHALL BE TAKEN FROM BORROW AREAS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, WOOD, STONES GREATER THAN 6", AND FROZEN OR OTHER OBJECTIONABLE MATERIAL. THE FOLLOWING SOIL TYPES ARE SUITABLE FOR USE AS FILL WITHIN THE DAM EMBANKMENT AND KEY TRENCH: ML AND CL. ALL FILL MATERIALS SHALL BE APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER FOR THE INTENDED USE.
- FILL PLACEMENT FOR THE EMBANKMENT SHALL NOT EXCEED A MAXIMUM 8" LIFT (UNCOMPACTED). EACH LIFT SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF EMBANKMENT. BEFORE PLACEMENT OF FILL FOR THE BERM SECTION, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE SURFACE PROPERLY PREPARED FOR FILL PLACEMENT. FILL MATERIAL ADJACENT TO ALL SPILLWAY AND DRAINAGE STRUCTURES SHALL BE PLACED IN 4-INCH (UNCOMPACTED) LIFTS AND HAND-COMPACTED TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT.
- ALL FILL SOILS USED IN THE EMBANKMENT CONSTRUCTION SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). THE FILL SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN -1 TO +3 PERCENT OF ITS OPTIMUM MOISTURE CONTENT. COMPACTION TESTS SHALL BE PERFORMED BY THE ON-SITE GEOTECHNICAL ENGINEER DURING CONSTRUCTION TO VERIFY THAT THE PROPER COMPACTION LEVEL HAS BEEN REACHED. THE FILL SHOULD BE COMPACTED USING A SHEEPSFOOT TYPE COMPACTOR. IN ORDER TO PREVENT DAMAGE TO THE PIPE, NO COMPACTION EQUIPMENT SHALL CROSS ANY PIPE UNTIL MINIMUM COVER IS ESTABLISHED ALONG THE PIPE.
- THE DESIGN ENGINEER SHALL BE PROVIDED WITH REPORTS AND CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE GEOTECHNICAL ASPECTS OF THE FACILITY HAVE BEEN CONSTRUCTED PER PLAN. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY. THESE REPORTS AND CERTIFICATION WILL BE NEEDED DURING THE AS-BUILT CERTIFICATION PROCESS FOR THIS STORMWATER CONTROL MEASURE. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE TESTING AND OBSERVATION WITH THE ON-SITE GEOTECHNICAL ENGINEER.
- TESTING OF THE NEW FILL MATERIALS SHALL BE PERFORMED TO VERIFY THAT THE RECOMMENDED LEVEL OF COMPACTION IS ACHIEVED DURING CONSTRUCTION. THEREFORE, ONE DENSITY TEST SHALL BE PERFORMED FOR EVERY 2,500 SQUARE FEET OF AREA FOR EVERY LIFT OF FILL OR AS RECOMMENDED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- TESTING WILL BE REQUIRED ALONG THE 48" RCP OUTLET BARREL AT A FREQUENCY OF ONE TEST PER 25 LF OF PIPE PER VERTICAL FOOT OF FILL OR AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.

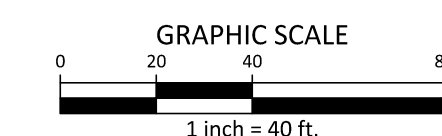
## STATEMENT OF RESPONSIBILITY

- ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THE STORMWATER CONTROL MEASURE SHALL BE THE RESPONSIBILITY OF THE OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.



STORMWATER WETPOND 'B' PLAN VIEW

1" = 40'



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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



## REVISIONS

NO. DATE

## PLAN INFORMATION

PROJECT NO. AGN23001  
FILENAME AGN23001-SCMB  
CHECKED BY MCT  
DRAWN BY MMJ  
SCALE 1"=40'  
DATE 12.02.2024

## SHEET

SCM B  
PLAN VIEW

**C9.04**



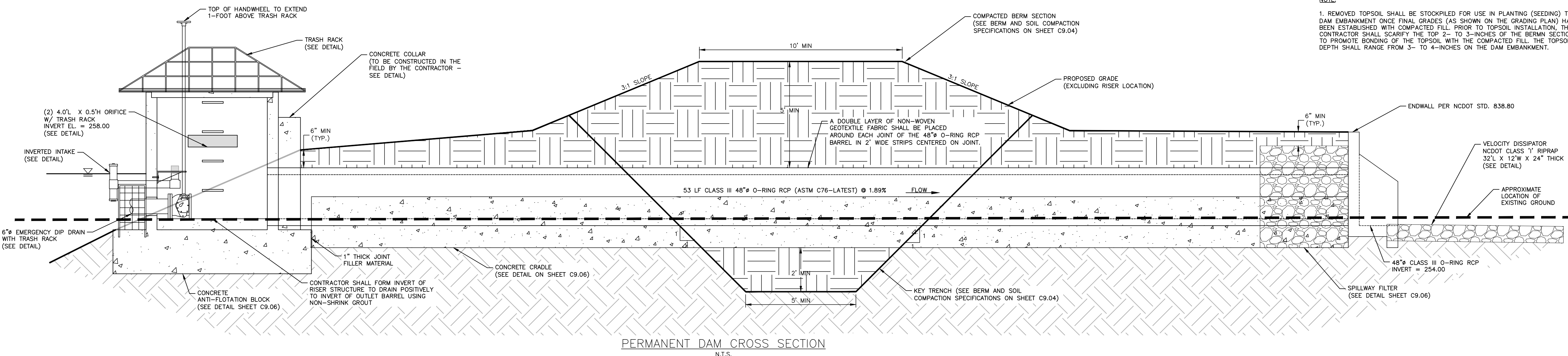
|                           |
|---------------------------|
| TOP OF DAM EL. = 264.00   |
| 100-YR STORM EL. = 262.78 |
| 25-YR STORM EL. = 262.17  |
| TOP OF RISER EL. = 261.50 |
| 10-YR STORM EL. = 261.48  |

1-YR STORM EL. = 258.84

WATER QUALITY VOLUME EL. = 257.69

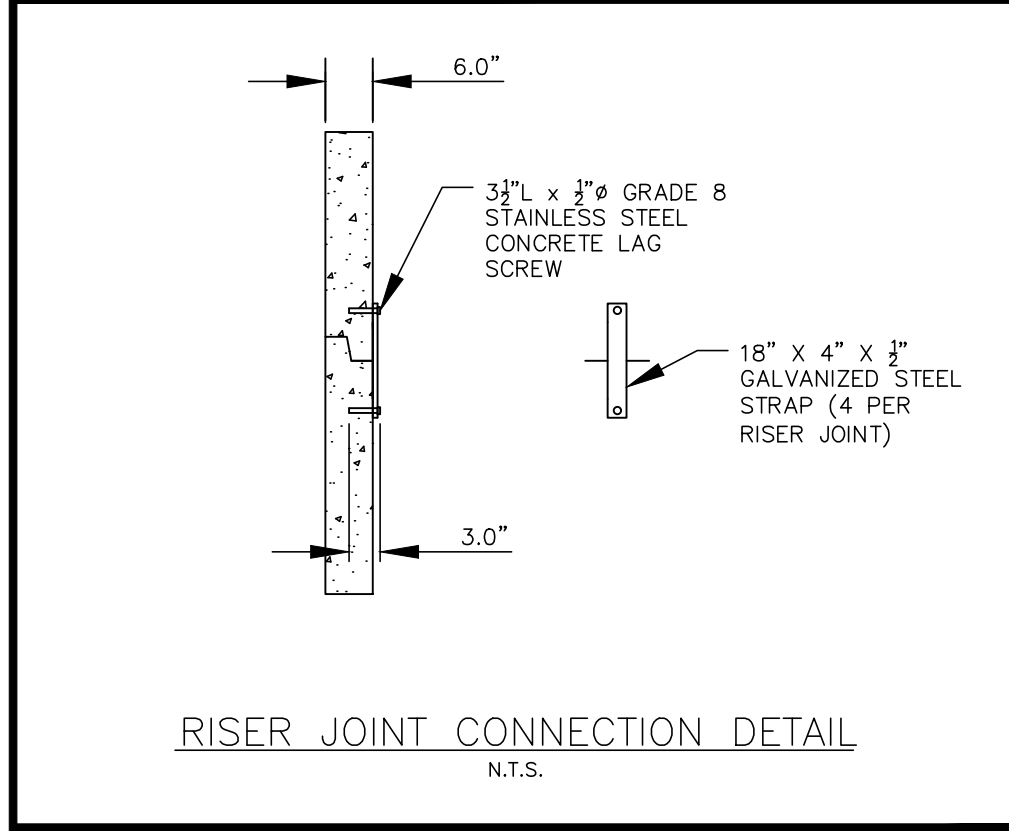
NORMAL WATER SURFACE EL. = 256.00

48" O-RING RCP INVERT EL. = 255.00

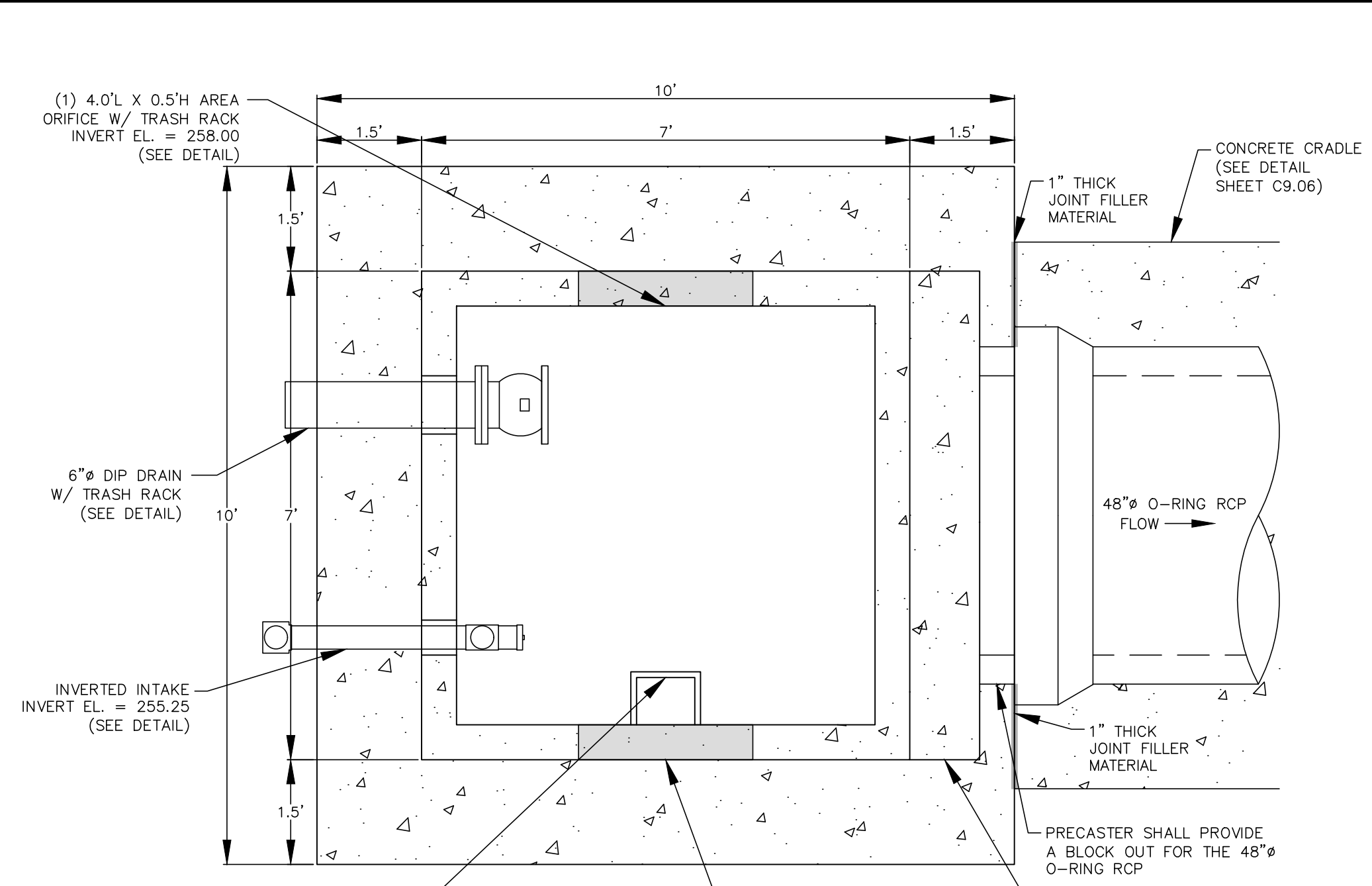


NOTE:  
1. REMOVED TOPSOIL SHALL BE STOCKPILED FOR USE IN PLANTING (SEEDING) THE DAM EMBANKMENT ONCE FINAL GRADES (AS SHOWN ON THE GRADING PLAN) HAVE BEEN ESTABLISHED WITH COMPACTED FILL. PRIOR TO TOPSOIL INSTALLATION, THE CONTRACTOR SHALL SCARIFY THE TOP 2" TO 3-INCHES OF THE BERM SECTION TO PROMOTE BONDING OF THE TOPSOIL WITH THE COMPACTED FILL. THE TOPSOIL DEPTH SHALL RANGE FROM 3- TO 4-INCHES ON THE DAM EMBANKMENT.

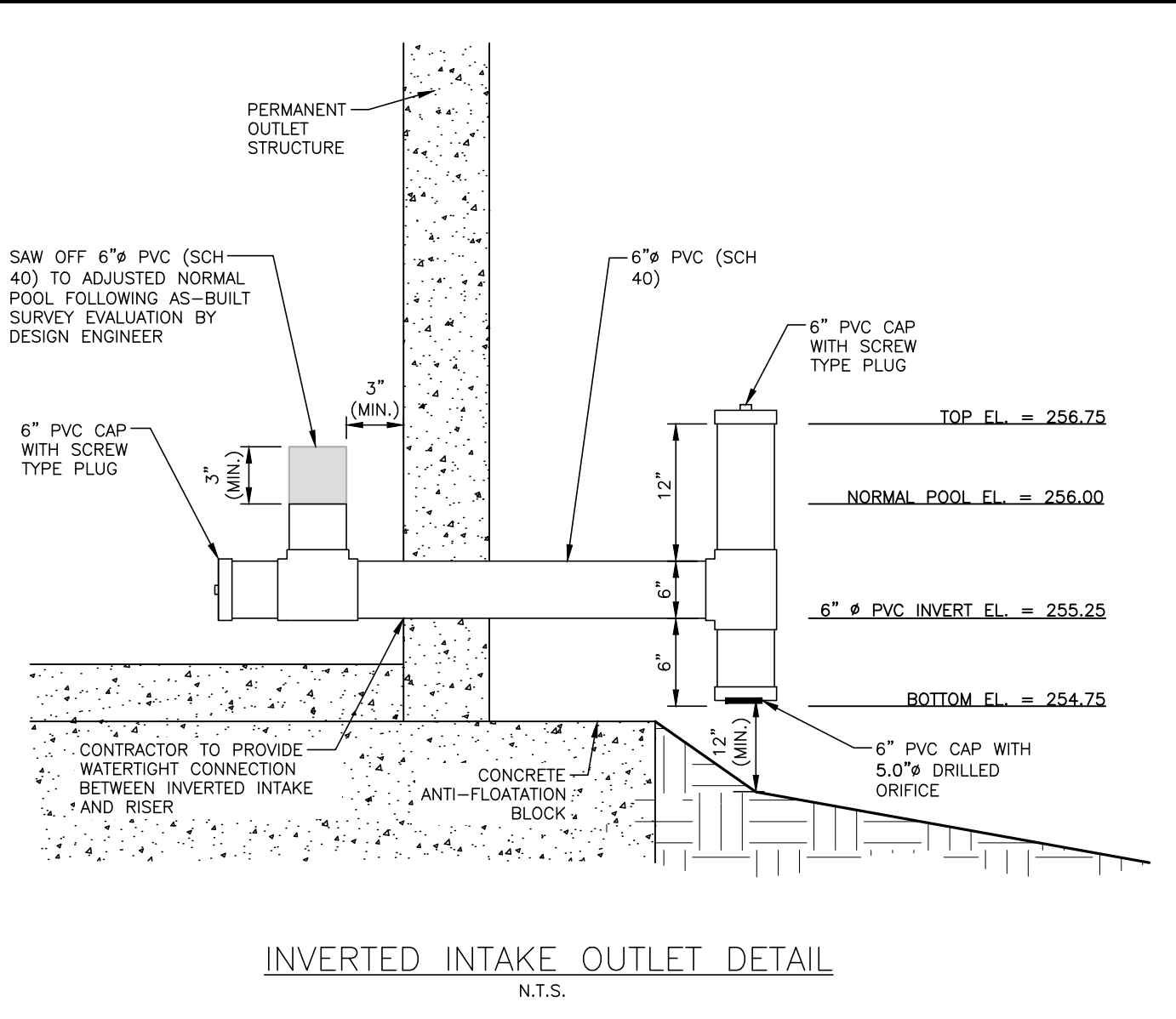
PERMANENT DAM CROSS SECTION  
N.T.S.



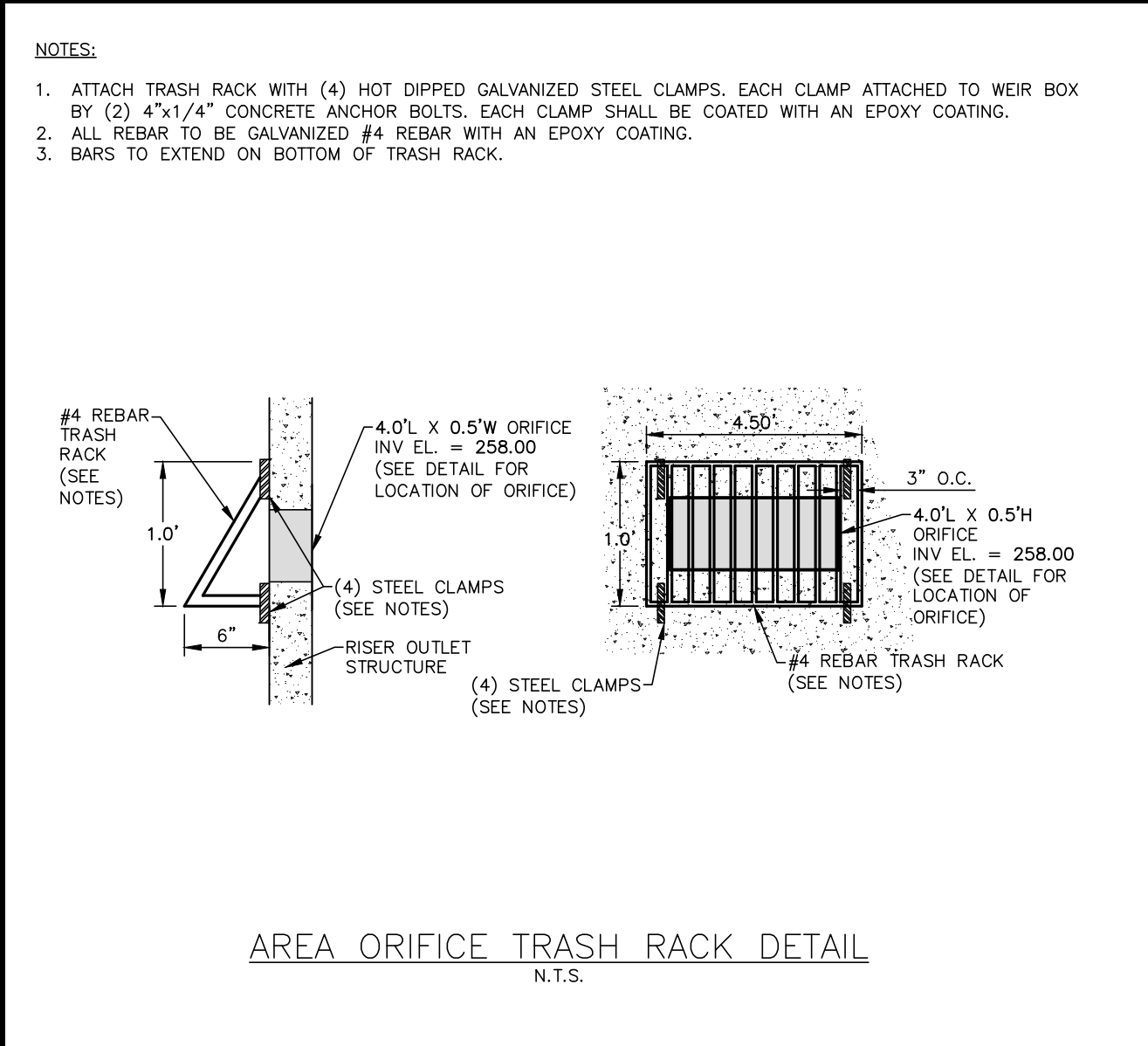
- NOTES:
1. CONCRETE ANTI-FLOTATION BLOCK TO BE PROVIDED WITH MINIMUM TEMPERATURE AND SHRINKAGE STEEL REINFORCEMENT.
  2. TRASH RACKS NOT SHOWN FOR CLARITY.
  3. THE NUMBER OF GUIDES FOR THE VALVE STEM SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THE VALVE STEM MUST BE OPERABLE FROM THE TOP OF THE RISER VIA THE HANDWHEEL WITH AN INSIGNIFICANT AMOUNT OF PLAY IN THE VALVE STEM.
  4. CONTRACTOR SHALL PROVIDE A JOINT IN THE OUTLET BARREL NO MORE THAN 5-FT FROM THE RISER.



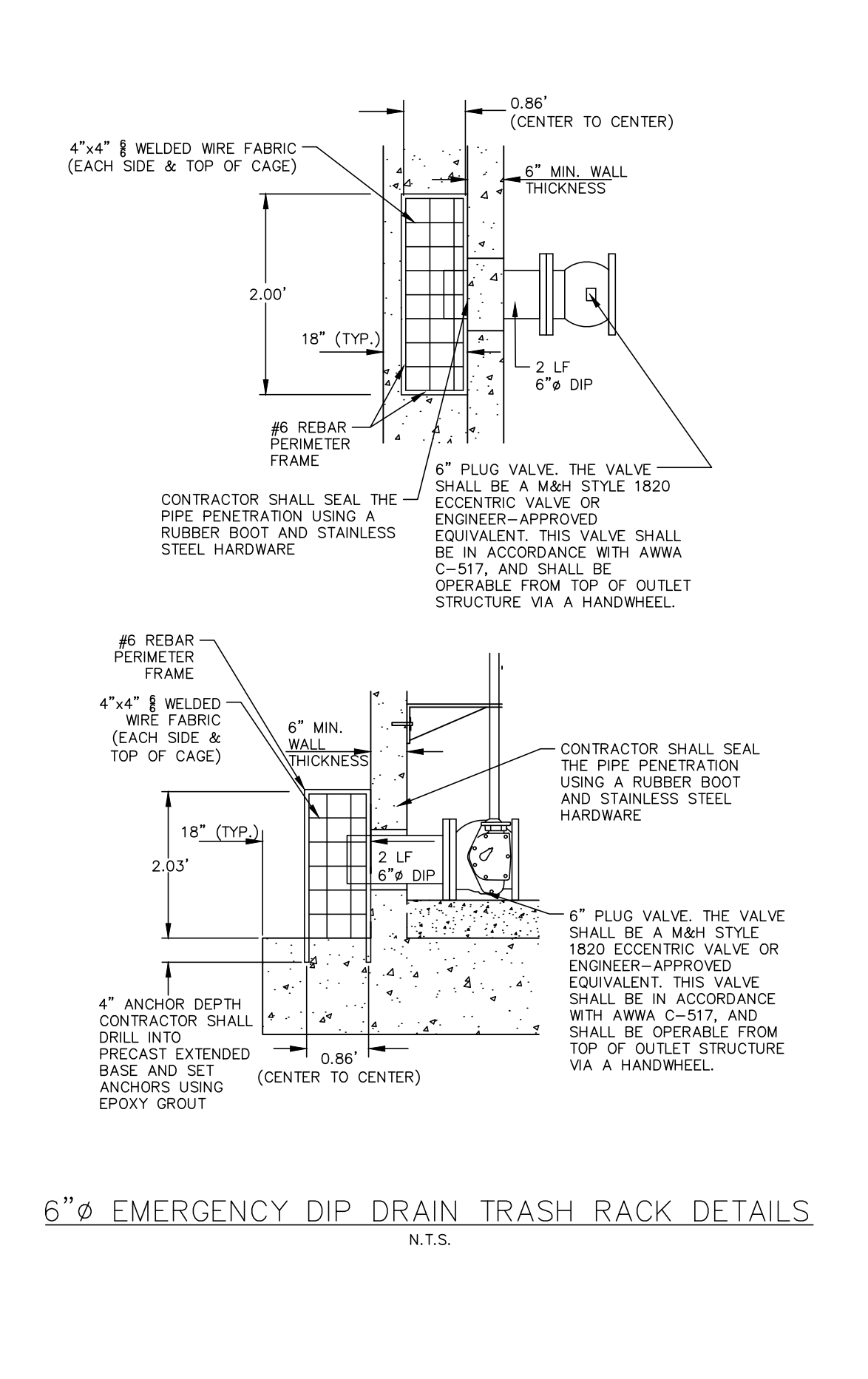
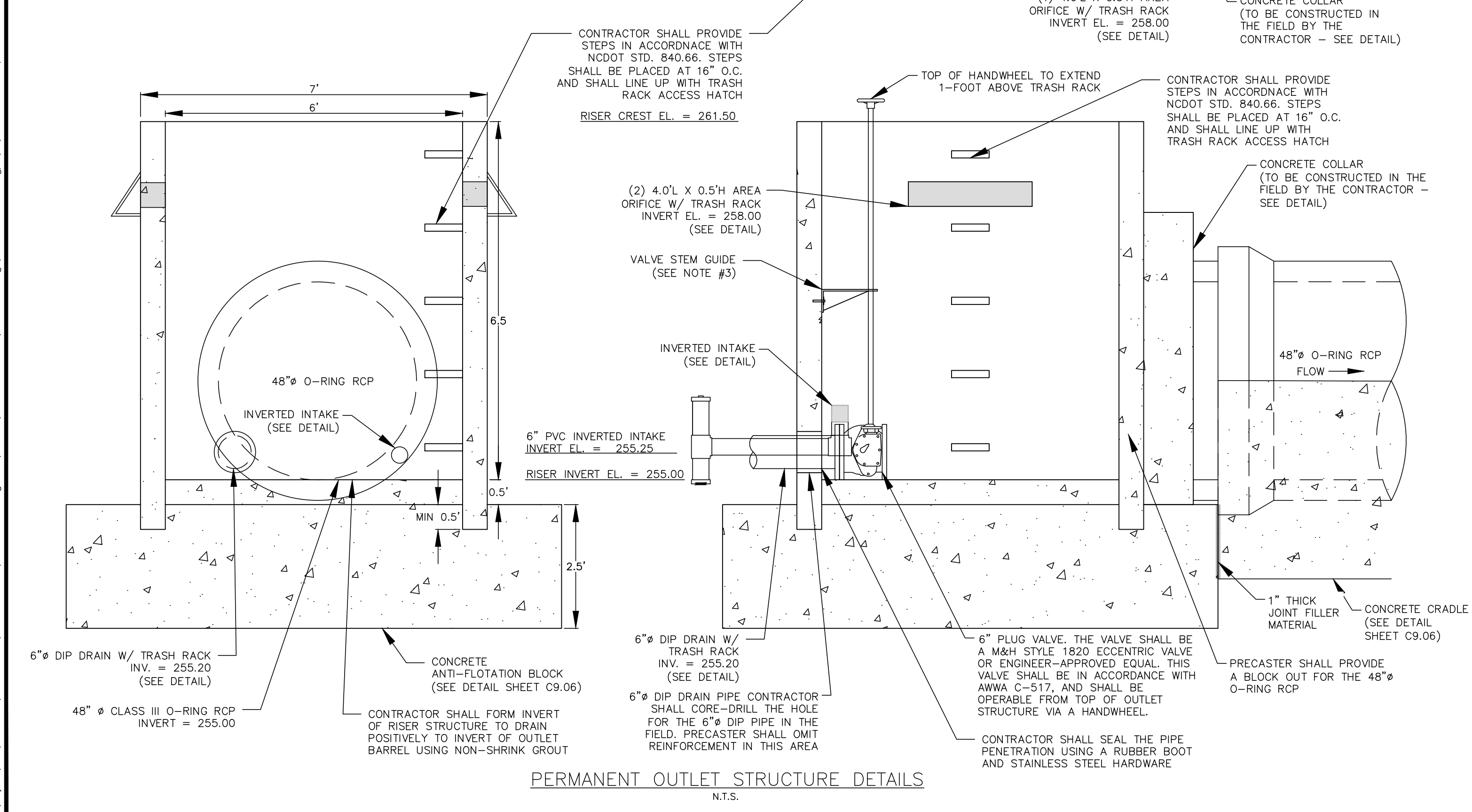
PERMANENT OUTLET STRUCTURE DETAILS  
N.T.S.



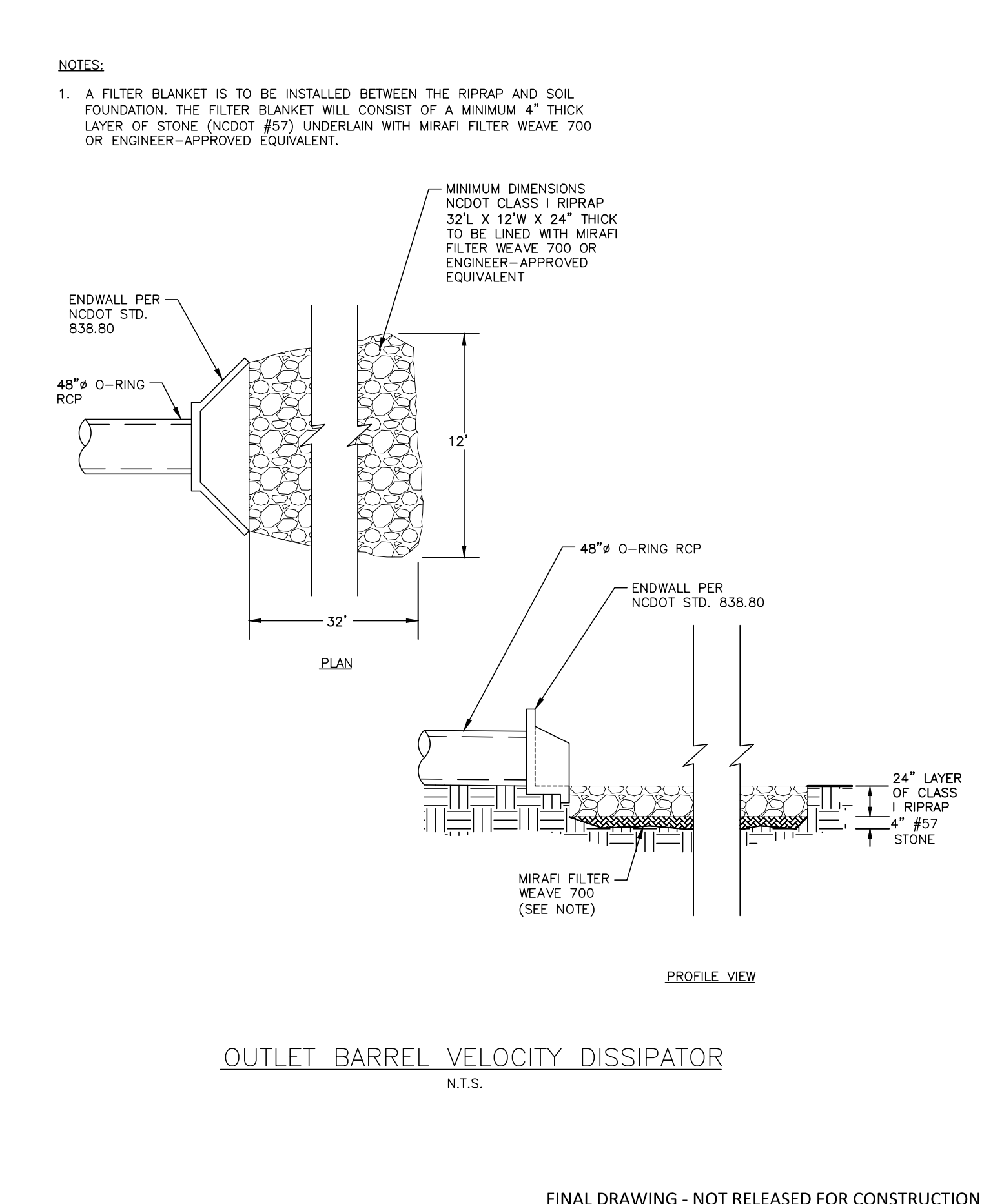
INVERTED INTAKE OUTLET DETAIL  
N.T.S.



AREA ORIFICE TRASH RACK DETAIL  
N.T.S.



6" EMERGENCY DIP DRAIN TRASH RACK DETAILS  
N.T.S.



OUTLET BARREL VELOCITY DISSIPATOR  
N.T.S.

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**AGNC**  
BROKERAGE | CONSULTING | PLANNING

**PEARCE FARM - PHASES 1-3**  
CONSTRUCTION DRAWINGS - PACKAGE 1  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

REVISIONS

| NO. | DATE |
|-----|------|
|     |      |

PLAN INFORMATION

|             |               |
|-------------|---------------|
| PROJECT NO. | AGN23001      |
| FILENAME    | AGN23001-SCMB |
| CHECKED BY  | MCT           |
| DRAWN BY    | MMJ           |
| SCALE       | N.T.S.        |
| DATE        | 12.02.2024    |

SHEET  
SCM B  
DETAILS  
**C9.05**







# STORMWATER CONTROL MEASURE 'B' PLANTING PLAN SPECIFICATIONS

## PLANT SCHEDULE

| SYMBOL               | CODE | QTY | COMMON NAME      | BOTANICAL NAME                 | CONT   | REMARKS       |
|----------------------|------|-----|------------------|--------------------------------|--------|---------------|
| <b>GROUND COVERS</b> |      |     |                  |                                |        |               |
|                      | AISM | 348 | Swamp Milkweed   | Asclepias incarnata            | 4" pot | Shallow Land  |
|                      | IVBF | 371 | Blue Flag Iris   | Iris virginica                 | 4" pot | Shallow Water |
|                      | LCCF | 374 | Cardinal Flower  | Lobelia cardinalis             | 4" pot | Shallow Land  |
|                      | LELL | 358 | Longleaf Labelia | Lobelia elongata               | 4" pot | Shallow Water |
|                      | PCPW | 375 | Pickereel Weed   | Pontederia cordata             | 4" pot | Shallow Water |
|                      | STSB | 375 | Softstem Bulrush | Schoenoplectus tabernaemontani | 4" pot | Shallow Water |

## SEEDBED PREPARATION

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3-4 INCHES DEEP OVER ADVERSE SOIL CONDITIONS. TOPSOIL SHOULD BE INCORPORATED INTO THE FINAL GRADING OF THE BASIN SIDE SLOPES AND SHALLOW LAND AND SHALLOW WATER AREAS. CONTRACTOR SHOULD SCARIFY THE TOP 3-4 INCHES OF THE COMPACTED FILL TO PROMOTE BONDING WITH TOPSOIL.
- RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- PER ONE TIME ONLY, APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. AFTER PERMANENT COVER IS ESTABLISHED.
- CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT.

## TEMPORARY SEEDING SCHEDULE

| SEEDING DATE    | SEEDING MIXTURE | APPLICATION RATE |
|-----------------|-----------------|------------------|
| JAN 1 - MAY 1   | RYE (GRAIN)     | 120 LBS/AC       |
| MAY 1 - AUG 15  | KOBE LESPEDEZA  | 50 LBS/AC        |
| AUG 15 - DEC 30 | GERMAN MILLET   | 40 LBS/AC        |
|                 | RYE (GRAIN)     | 120 LBS/AC       |

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 750 LB/AC 10-10-10 FERTILIZER (FROM AUG 15 - DEC 30, INCREASE 10-10-10 FERTILIZER TO 1000 LB/AC).

**MULCH**  
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
JAN 1 - AUG 15: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

AUG 15 - DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

**NOTE:** USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE PERMANENT SEEDING SCHEDULE.

## PERMANENT SEEDING SCHEDULE (DAM EMBANKMENTS)

| SEEDING DATE      | SEEDING MIXTURE      | APPLICATION RATE                               |
|-------------------|----------------------|--|
| MARCH 1 - JUNE 31 | HYBRID BERMUDA GRASS | 1 LBS/1000 SF (OR MANUFACTURER SPECIFICATIONS) |
| SEPT 1 - OCT 31   |                      | 1 LBS/1000 SF (OR MANUFACTURER SPECIFICATIONS) |

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

**MULCH**  
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

**NOTE:** PERMANENT SEEDING SCHEDULE IS FOR SLOPES OF THE BASIN AND TOP OF BERM.

## PLANTING INSTRUCTIONS

### PLANTING TECHNIQUES

- INSURE THAT ROOTS, ONCE REMOVED FROM POT, ARE STRAIGHTENED AND FACE DOWNWARD.
- CREATE PLANTING AREA FOR EACH PLANT AND EXCAVATE PIT.
- PLACE PLANTS IN PIT INSURING ROOTS ARE FACING COMPLETELY DOWNWARD.
- HEEL IN SOIL AROUND PLANT AND PROCEED TO NEXT PLANTING LOCATION.
- NEWLY PLANTED PLANTS NEED TO BE FASTENED TO THE SUBSTRATE FOR THE ESTABLISHMENT OF NEW ROOTS.
- ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS SHALL BE CUT OFF CLEANLY.
- THE DIAMETER OF THE PITS FOR ALL VEGETATIVE STOCK SHALL BE AT LEAST THREE TIMES THE DIAMETER OF THE ROOT MASS. PLANT PIT WALL SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
- SET THE PLANTS UPRIGHT, IN THE CENTER OF THE PIT. THE BOTTOM OF THE ROOT MASS SHOULD BE RESTING ON UNDISTURBED SOIL.
- PLACE THE BACKFILL AROUND THE BASE AND SIDES OF THE ROOT MASS, AND WORK EACH LAYER TO SETTLE BACKFILL AND TO ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF THE BACKFILL. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
- BROKEN OR DAMAGED PARTS WILL BE CUT BACK TO UNDAUNTED TISSUE, LEAVING AS MUCH GREEN BASAL TISSUE AS POSSIBLE ABOVE THE ROOTS. IF MORE THAN FIFTY PERCENT (50%) OF THE PLANT IS DAMAGED THEN CONTRACTOR SHALL REPLACE THE PLANT.

### CONTAINER STOCK / BARE ROOT

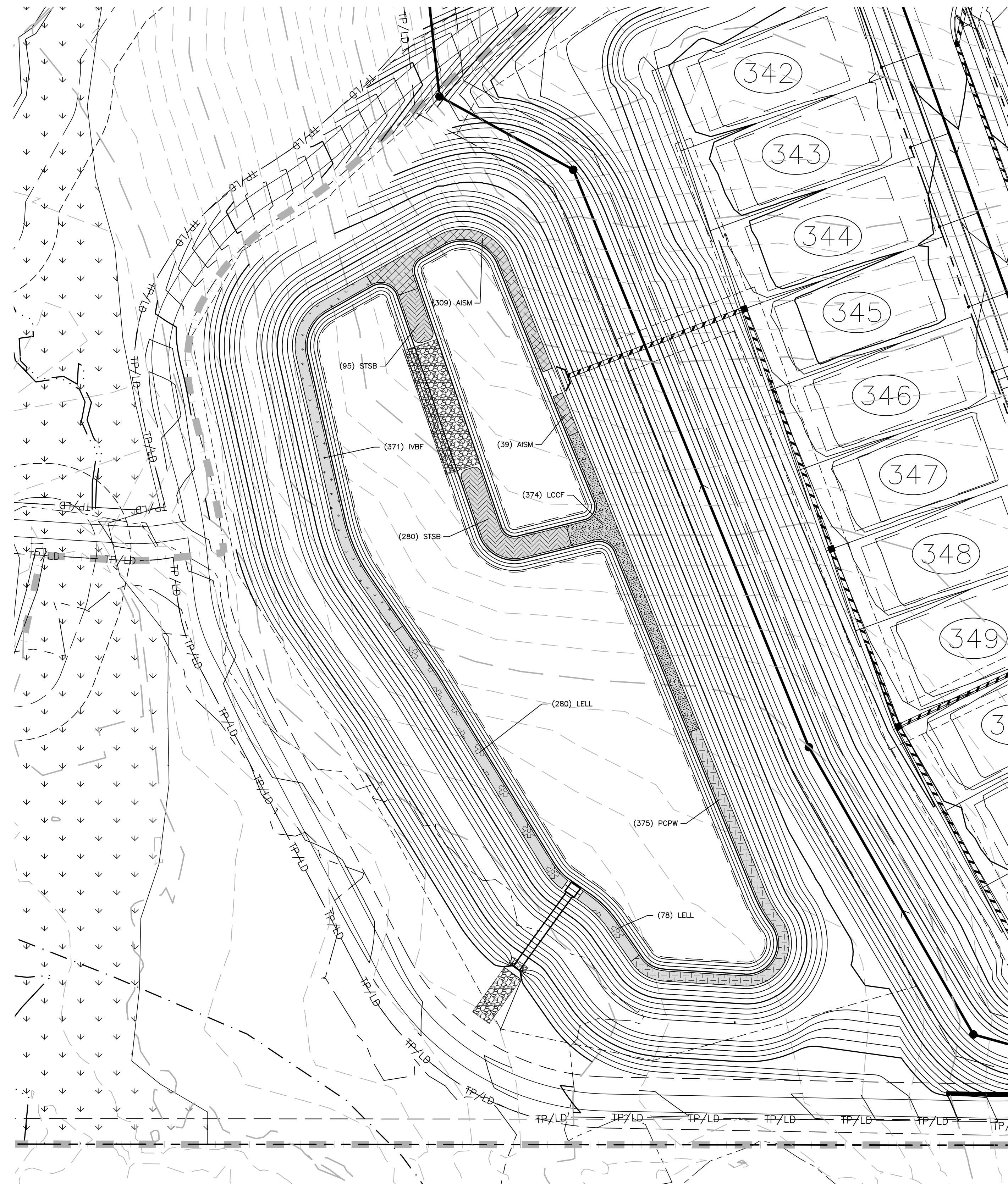
- STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER ONCE REMOVED FROM THE CONTAINER.
- CONTAINER PLANTS WILL NEED TO BE WATERED REGULARLY AND PLACED IN SHADY CONDITIONS UNTIL PLANTING OCCURS.
- BARE ROOT PLANTS ARE FOR IMMEDIATE PLANTING, OTHERWISE SEE D) BELOW.
- IF BARE ROOT SPECIMENS ARE NOT TO BE PLANTED WITHIN FOUR (4) DAYS, TEMPORARY HOLDING OF BARE ROOT SPECIMENS ARE TO BE COVERED ENTIRELY BY A SUITABLE MEDIUM (ETC. SOIL, SAWDUST, MULCH OR THE LIKE) AND WATERED REGULARLY SO AS TO NOT DRY OUT.

### PLANT LOCATIONS

- NEW PLANTINGS SHALL BE LOCATED WHERE SHOWN ON PLAN EXCEPT WHERE CHANGES HAVE BEEN MADE IN PROPOSED CONSTRUCTION.
- NECESSARY ADJUSTMENTS SHALL BE MADE ONLY AFTER APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

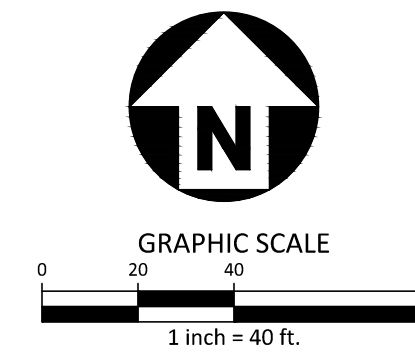
### WATER

WATER SHALL BE POTABLE AND SHALL NOT CONTAIN ELEMENTS TOXIC TO PLANT LIFE.



STORMWATER WETPOND 'B' LANDSCAPE PLAN

1" = 40'



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**AGNC**  
BROKERAGE | CONSULTING | PLANNING

**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**  
NO. DATE

## PLAN INFORMATION

PROJECT NO. AGN23001  
FILENAME AGN23001-SCMB  
CHECKED BY MCT  
DRAWN BY MMJ  
SCALE 1" = 40'  
DATE 12.01.2024

## SHEET

SCM B  
LANDSCAPE PLAN  
**C9.07**



# STORMWATER CONTROL MEASURE 'G' CONSTRUCTION SPECIFICATIONS

## GENERAL NOTES

- PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION IMMEDIATELY. IF THE CONTRACTOR, IN THE COURSE OF WORK, FINDS ANY DISCREPANCIES IN THE PLANS OR NOTES GIVEN BY THE PROJECT ENGINEER, IT SHALL BE THEIR DUTY TO IMMEDIATELY INFORM THE PROJECT ENGINEER IN WRITING. ANY WORK DONE AFTER SUCH A DISCOVERY, UNTIL AUTHORIZED, WILL BE AT THE CONTRACTOR'S RISK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LICENSES AND PERMITS REQUIRED TO COMPLETE THE WORK INCLUDED IN THE CONTRACT DOCUMENTS AT THE CONTRACTOR'S EXPENSE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THEY AND THEIR SUBCONTRACTORS HAVE THE CORRECT AND MOST UP-TO-DATE PLANS AVAILABLE.
- THE PROJECT WILL MEET ALL RELEVANT DESIGN REQUIREMENTS IN THE NCDOT MANUAL AND THE TOWN OF ROLESVILLE REGULATIONS AND STANDARDS.
- THE DESIGN ENGINEER OR THEIR REPRESENTATIVE SHALL BE ON-SITE FOR THE INSTALLATION OF ESSENTIAL ELEMENTS OF THE PRINCIPAL SPILLWAY INCLUDING BUT NOT LIMITED TO THE ANTI-FLOAT BLOCK, RISER, CONCRETE COLLAR, CONCRETE CRADLE, AND THE OUTLET BARREL. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER 72 HOURS PRIOR TO INSTALLATION OF THESE ITEMS TO ENSURE THAT A REPRESENTATIVE CAN BE ON-SITE. PHOTOGRAPHS OF THESE ITEMS MUST BE TAKEN PRIOR TO BACKFILLING FOR USE IN THE AS-BUILT PHASE. IF THE CONTRACTOR INSTALLS THESE WITHOUT THE ENGINEER OR ENGINEER'S REPRESENTATIVE ON-SITE, THEN THE ELEMENTS SHALL BE UNCOVERED FOR INSPECTION AT THE CONTRACTOR'S EXPENSE.
- THE FINAL CERTIFICATION FOR THIS FACILITY WILL INCLUDE A CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ON-SITE GEOTECHNICAL ENGINEER FOR TESTING SUCH THAT THE ON-SITE GEOTECHNICAL ENGINEER CAN VERIFY THE CONSTRUCTION OF THE DAM EMBANKMENT AND SPILLWAY. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY.
- ALL CONSTRUCTION ACTIVITY RELATED TO THE PROPOSED STORMWATER CONTROL MEASURE SHALL BE PER THE DETAILS AND SPECIFICATIONS SHOWN IN THESE DRAWINGS, SOILS, COMPACTION, AND OTHER MISCELLANEOUS DETAILS AND SPECIFICATIONS MAY BE MODIFIED PER THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER. HOWEVER, PRIOR TO IMPLEMENTATION, THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DEVIATION FROM THESE DESIGN DRAWINGS, INCLUDING SHOP DRAWINGS FOR ANY PROPOSED MODIFICATION.
- DURING THE INITIAL STAGES OF CONSTRUCTION, THE STORMWATER CONTROL MEASURE MAY BE USED AS A SEDIMENT BASIN FOR EROSION CONTROL PURPOSES. IF SO, THE CONTRACTOR SHALL FOLLOW THE GENERAL CONSTRUCTION SEQUENCE BELOW:
  - THE CONTRACTOR SHALL CONSTRUCT THE ENTIRE FACILITY (PERMANENT OUTLET STRUCTURE, DAM, ETC.) WITH THE EXCEPTION OF THE INTERIOR FINE GRADING FOR THE FACILITY. THE INTERIOR FINE GRADING WILL BE CONSTRUCTED ONCE THE EROSION CONTROL PHASE IS COMPLETE.
  - THE TEMPORARY DRAWDOWN RISER (OR SKIMMER) SHALL BE CONNECTED TO THE PERMANENT 6" Ø DIP DRAIN PIPE.
  - ONCE THE UPSTREAM DRAINAGE AREA IS STABILIZED AND THE EROSION CONTROL INSPECTOR APPROVES THE REMOVAL OF THE SEDIMENT BASIN, THE CONTRACTOR SHALL REMOVE THE TEMPORARY DRAWDOWN RISER (OR SKIMMER) AND CLEAN OUT THE BASIN IN ACCORDANCE WITH EROSION CONTROL STANDARDS. ALL SEDIMENT, TRASH, ETC. SHALL BE PROPERLY DISPOSED OF PROPERLY (I.E. PLACED IN A LANDFILL) AND NOT STOCKPILED IN AN AREA WHERE WATER QUALITY COULD BE ADVERSELY AFFECTED.
  - ONCE THE BASIN IS CLEANED OUT, AND ALL EROSION CONTROL DEVICES REMOVED, THE CONTRACTOR SHALL CONSTRUCT THE INTERIOR GRADING SHOWN ON THIS SHEET.
  - ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER CONTROL MEASURE PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.
  - ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER CONTROL MEASURE PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER CONTROL MEASURE PLANTING PLAN.
- ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. McADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.
- ON-SITE GEOTECHNICAL ENGINEER SHALL DETERMINE THE IN-SITU SOIL INFILTRATION RATE OF THE STORMWATER CONTROL MEASURE BOTTOM. BASED ON THE RESULTS, THE DESIGN ENGINEER SHALL DETERMINE IF A LINER WILL BE NEEDED TO MAINTAIN A PERMANENT POOL. UPON DETERMINATION OF HIGHLY PERMEABLE SOILS AND THE SEASONAL HIGH WATER TABLE OUTSIDE OF THE ACCEPTABLE RANGE, THE DESIGN ENGINEER WILL PROVIDE SPECIFICATIONS FOR THE LINER.
- IT IS ANTICIPATED THAT DEWATERING WILL BE NECESSARY IN THE EXCAVATION AREAS (E.G., EMBANKMENT SUB GRADE, INTERIOR PORTIONS OF THE DAM EMBANKMENT, AND KEY TRENCH). THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE STORMWATER CONTROL MEASURE SITE. DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE DAM EMBANKMENT AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY NEED TO BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE PRIOR TO DISCHARGE).
- PRIOR TO TOPSOIL INSTALLATION, THE CONTRACTOR SHALL SCARIFY THE TOP 2-3" OF THE BERM SECTION TO PROMOTE BONDING OF THE TOPSOIL WITH THE COMPACTED FILL. THE TOPSOIL DEPTH SHALL RANGE FROM 3-4" ON THE DAM EMBANKMENT AND AQUATIC SHELF. PLEASE NOTE THE TOPSOIL SHALL BE AMENDED AS DIRECTED BY A LANDSCAPE PROFESSIONAL PRIOR TO INSTALLATION ON THE EMBANKMENT AND AQUATIC SHELF.
- THE CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY PERIOD FOR ALL PLANTINGS IN THE STORMWATER CONTROL MEASURE.
- THE CONTRACTOR SHALL REFER TO THE LANDSCAPING PLAN FOR THE PERMANENT PLANTING PLAN/SCHEDULE FOR THIS FACILITY. CONTRACTOR SHALL COORDINATE WITH LANDSCAPE PROFESSIONAL REGARDING SCHEDULING FOR PLANT INSTALLATION. PLEASE NOTE THAT NO TREES/SHRUBS OF ANY TYPE MAY BE PLANTED ON FILL AREAS OF THE PROPOSED DAM EMBANKMENT.
- RETAINING WALL ALIGNMENT SHOWN ON THESE PLANS DEPICTS THE LOCATION OF THE FRONT FACE OF THE RETAINING WALL AT THE BOTTOM.
- RETAINING WALL IS TO BE A DESIGN-BUILD PROJECT BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FINAL CONSTRUCTION DRAWINGS FROM A REGISTERED PROFESSIONAL ENGINEER AND GAIN ALL REQUIRED PERMITS NECESSARY FOR THE CONSTRUCTION OF THE RETAINING WALL.
- RETAINING WALL SHALL BE ASSUMED TO BE BACKFILLED WITH OFF-SITE BORROW MATERIAL OR PROCESSED FILL UNLESS CONTRACTOR CAN PROVIDE OWNER WITH CONFIRMATION FROM THE GEOTECHNICAL ENGINEER AND THE RETAINING WALL DESIGNER THAT READILY AVAILABLE ON-SITE SOILS CAN BE USED.
- TOP AND BOTTOM OF WALL ELEVATIONS REFERENCED ON THESE PLANS IDENTIFY FINISHED GRADE ELEVATIONS ONLY. THE EXTENT THAT THE RETAINING WALL WILL BE EXTENDED BELOW GRADE TO THE FOOTING SHALL BE IDENTIFIED ON THE RETAINING WALL CONSTRUCTION DRAWINGS.
- ON-SITE GEOTECHNICAL ENGINEER SHOULD BE GIVEN AN OPPORTUNITY TO REVIEW ALL RETAINING WALL PLANS AND DESIGNS RELEVANT TO GEOTECHNICAL CONSIDERATIONS PRIOR TO FINAL DESIGN OF THE WALLS.

## OUTLET STRUCTURE MATERIAL SPECIFICATIONS

- THE 24" Ø RCP OUTLET BARREL SHALL BE CLASS III O-RING RCP, MODIFIED BELL AND SPIGOT, MEETING THE REQUIREMENTS OF ASTM C76-LATEST. THE PIPES SHALL HAVE SINGLE OFFSET JOINTS MEETING ASTM C-443-LATEST.
- THE STRUCTURAL DESIGN FOR THE 4' X 4' (INTERNAL DIMENSIONS) RISER BOX WITH EXTENDED BASE SHALL BE BY OTHERS. PRIOR TO ORDERING THE STRUCTURES, THE CONTRACTOR SHALL PROVIDE TO THE DESIGN ENGINEER FOR REVIEW, SHOP DRAWINGS AND SUPPORTING STRUCTURAL CALCULATIONS SEALED BY A P.E. REGISTERED IN NORTH CAROLINA DEMONSTRATING THE PERTINENT VERTICAL LOADS ARE SUPPORTED BY THE CONCRETE RISER STRUCTURE.
- THE RISER BOX OUTLET STRUCTURE SHALL BE PROVIDED WITH STEPS 16" ON CENTER. STEPS SHALL BE PROVIDED ON THE INNER WALL OF THE RISER BOX. STEPS SHALL BE IN ACCORDANCE WITH NCDOT STD. 840.66. PLEASE REFER TO SHEET C9.10 FOR LOCATION OF THE RISER STEPS. NOTE THE STEPS SHALL LINE UP WITH THE ACCESS HATCH OF THE TRASH RACK.
- THE CONCRETE ANTI-FLOTATION BLOCK SHALL BE CAST-IN-PLACE. STEEL REINFORCEMENT AND CONNECTION TO THE RISER SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAIL ON SHEET C9.10. THE CONTRACTOR SHALL ENSURE THE WEIGHT OF THE ENTIRE RISER STRUCTURE IS GREATER THAN OR EQUAL TO 31,763 LBS.
- THE RISER BOX JOINTS SHALL BE SEALED USING BUTYL RUBBER SEALANT CONFORMING TO ASTM-C990-LATEST. IF NECESSARY, THE CONTRACTOR SHALL INCORPORATE A WATERSTOP INTO THE RISER BOX JOINT TO ENSURE A WATERTIGHT CONNECTION. THE CONTRACTOR SHALL PATCH JOINTS ON BOTH THE INSIDE AND OUTSIDE WITH NON-SHRINKING GROUT AND INSTALL GALVANIZED STEEL STRAPS PER DETAIL ON SHEET C9.09.
- PRIOR TO ORDERING, THE CONTRACTOR SHALL SUBMIT TRASH RACK SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL ENSURE THAT AN ACCESS HATCH IS PROVIDED ON THE TRASH RACK (SEE DETAIL SHEET C9.09 FOR LOCATION) THAT WILL ALLOW FOR FUTURE MAINTENANCE ACCESS. NOTE THE ACCESS HATCH SHALL LINE UP WITH THE ACCESS STEPS AFTER INSTALLATION.
- ALL Poured concrete shall meet the following specifications unless otherwise noted:
  - MINIMUM 3000 PSI (28 DAY)
  - SLUMP = 3" - 5"
  - ENTRAINED AIR = 5% - 7%
 PLEASE NOTE NO CONCRETE SHALL BE POURED WHEN THE AMBIENT AIR TEMPERATURES ARE EXPECTED TO BE ABOVE 85°F OR BELOW 40°F. CAST-IN-PLACE CONCRETE SHALL BE "WET CURED" AFTER FINISHING FOR A MINIMUM OF 48 HOURS.
   
CAST-IN-PLACE CONCRETE TO BE VIBRATED AS NECESSARY.

ON-SITE GEOTECHNICAL ENGINEER TO TEST AND CERTIFY ALL Poured CONCRETE MEETS THE ABOVE SPECIFICATIONS. CONCRETE CYLINDERS FOR TESTING TO BE OBTAINED AT TIME OF POURING OF CAST-IN-PLACE STRUCTURES.

- GEOTEXTILE FABRIC FOR THE 24" Ø RCP OUTLET BARREL JOINTS SHALL BE MIRAF1 180N OR ENGINEER APPROVED EQUAL (NON-WOVEN FABRIC).
- STORMWATER CONTROL MEASURE EMERGENCY DRAWDOWN IS VIA AN 6" Ø PLUG VALVE. THE VALVE SHALL BE A M&M STYLE 1820 ECCENTRIC VALVE OR APPROVED EQUAL. THIS VALVE IS IN ACCORDANCE WITH ANWA C-517, AND SHALL BE OPERABLE FROM TOP OF OUTLET STRUCTURE VIA A HAND WHEEL (SEE DETAIL SHEET C9.09). THE CONTRACTOR SHALL PROVIDE A REMOVABLE VALVE WRENCH WITH A HAND WHEEL ON TOP FOR OPERATION OF THE 6" Ø PLUG VALVE.

## CONSTRUCTION SEQUENCE

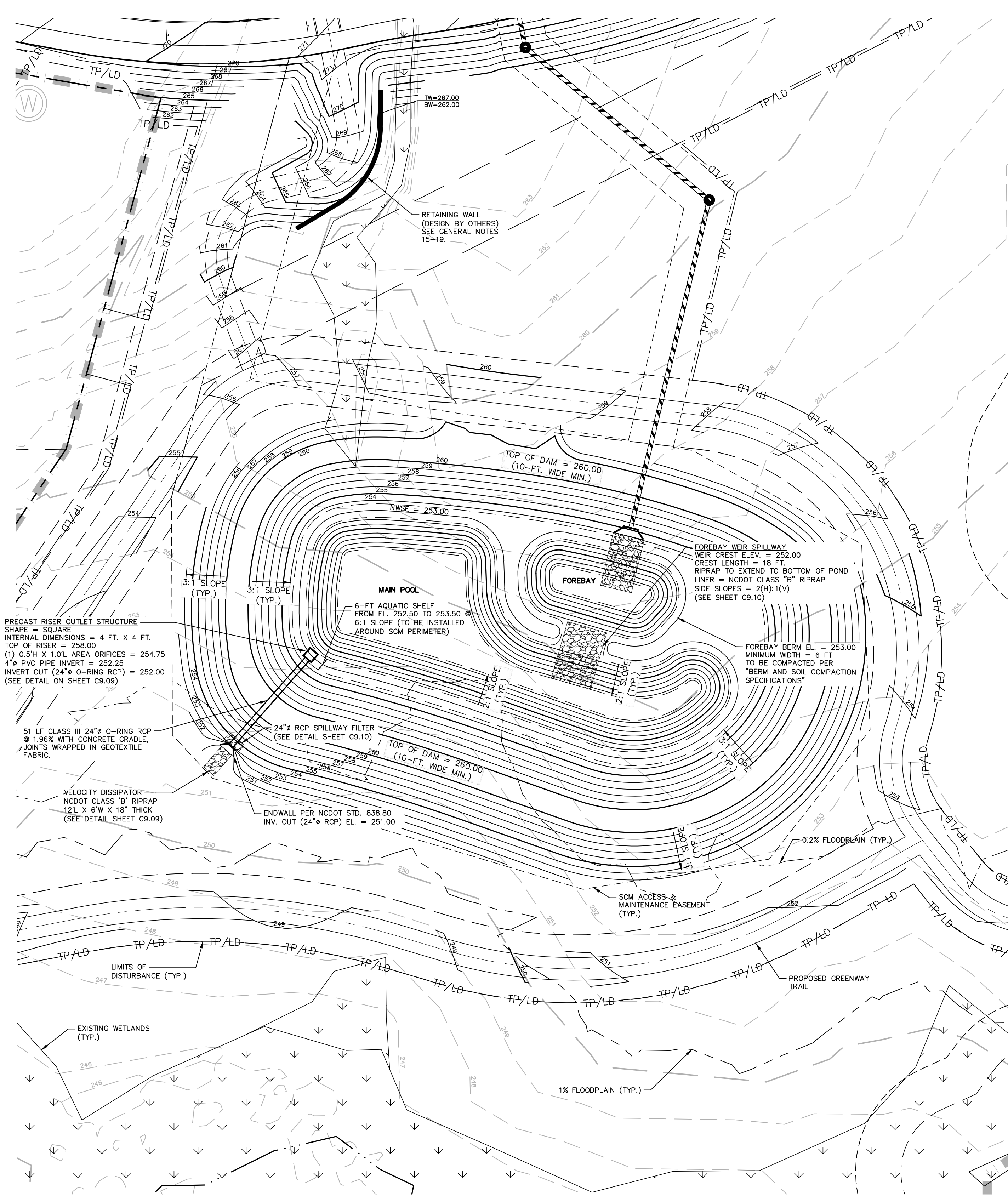
- PRIOR TO CONSTRUCTION, THE OWNER SHALL OBTAIN A LAND DISTURBING (GRADING) PERMIT AND AN "APPROVAL TO CONSTRUCT" FROM THE TOWN OF ROLESVILLE AND ALL OTHER NECESSARY PERMITS FROM APPLICABLE AGENCIES (E.G. 404 / 401 PERMITS).
- INSTALL ALL SEDIMENT AND EROSION CONTROL MEASURES PER THE APPROVED SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR SHALL MAINTAIN ALL APPROVED SEDIMENT AND EROSION CONTROL MEASURES THROUGHOUT THE ENTIRE PROJECT, AS REQUIRED. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE EROSION CONTROL INSPECTOR, AS REQUIRED BY GOVERNING AGENCIES, PRIOR TO ANY CLEARING.
- CLEAR AND GRUB AREA WITHIN THE LIMITS OF THE PROPOSED DAM CONSTRUCTION, ADHERING TO THE "BERM AND SOIL COMPACTION" NOTES. ALL TREES AND THEIR ENTIRE ROOT SYSTEMS MUST BE REMOVED FROM THE DAM FOOTPRINT AREA AND BACKFILLED WITH SUITABLE SOIL MATERIAL. THE BACKFILLED AREAS SHALL BE COMPACTED TO THE SAME STANDARDS AS THE DAM EMBANKMENT. THE REMAINING AREA OF THE EMBANKMENT SHALL BE STRIPPED TO A SUITABLE DEPTH AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER. ANY RESIDUAL SOILS TO BE LEFT IN PLACE MUST BE WELL SCRUBBED TO PROMOTE BONDING OF THE NEW EMBANKMENT FILL. NO EMBANKMENT MATERIAL SHALL BE PLACED FOR THE DAM OR KEY TRENCH UNTIL APPROVAL OF THE DAM SUBGRADE IS OBTAINED FROM THE ON-SITE GEOTECHNICAL ENGINEER.
- EXCAVATE FOR THE NEW KEY TRENCH ALONG THE CENTERLINE OF THE PROPOSED DAM EMBANKMENT. THE TRENCH SHALL EXTEND A MINIMUM OF 5 FT BELOW EXISTING GRADE OR 2 FT BELOW THE 24" Ø RCP OUTLET BARREL AND SHALL HAVE A MINIMUM BOTTOM WIDTH OF 5 FEET. THE KEY TRENCH SIDESLOPES SHALL BE A MINIMUM OF 1:1 (H:V). WHEN EXCAVATING THE KEY TRENCH, IF ANY DEBRIS IS ENCOUNTERED TO AN EXTENT THAT SUCH DEBRIS MAY EXIST IN OTHER INSITU PORTIONS OF THE DAM EMBANKMENT, IT SHOULD ALSO BE REMOVED. THE KEY TRENCH SHALL BE COMPACTED TO THE SAME SPECIFICATION LISTED IN ITEM 4 OF THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES. DEPENDING UPON ON-SITE SOIL CONDITIONS ENCOUNTERED DURING EXCAVATION, THE ON-SITE GEOTECHNICAL ENGINEER MAY VARY THE DEPTH AND DIMENSIONS OF THE KEY TRENCH AS DEEMED NECESSARY. THE ON-SITE GEOTECHNICAL ENGINEER SHALL RETAIN DOCUMENTATION OF ANY VARIATION FOR FUTURE AS-BUILT SUBMITTALS TO THE TOWN OF ROLESVILLE.
- BEGIN PLACEMENT OF BACKFILL WITHIN THE KEY TRENCH. THE KEY TRENCH SHALL BE COMPACTED TO THE SPECIFICATIONS LISTED IN ITEM 4 OF THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES. THE KEY TRENCH SHALL BE TESTED PER THE SPECIFICATIONS LISTED IN THAT SECTION.
- CONTRACTOR SHALL GIVE THE DESIGN ENGINEER A MINIMUM OF 72 HOURS NOTICE PRIOR TO THE INSTALLATION OF THE SPILLWAY.
- PRIOR TO INSTALLATION, SUBGRADE CONDITIONS ALONG THE SPILLWAY PIPES SHOULD BE EVALUATED BY THE ON-SITE GEOTECHNICAL ENGINEER TO ASSESS WHETHER SUITABLE BEARING CONDITIONS EXIST AT THE SUBGRADE LEVEL. SHOULD SOFT OR OTHERWISE UNSUITABLE CONDITIONS BE ENCOUNTERED ALONG THE PIPE ALIGNMENTS, THESE MATERIALS SHOULD BE UNDERCUT AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE UNDERCUT MATERIALS SHALL BE REPLACED WITH ADEQUATELY COMPACTED STRUCTURAL FILL, LEAN CONCRETE OR FLOWABLE FILL AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- IN ORDER TO HELP PROTECT THE SOIL SUBGRADE FROM DETERIORATION (DUE TO EXPOSURE, RAINFALL, SEEPAGE, AND RUNOFF) BEFORE THE CRADLE CAN BE POURED, IT IS STRONGLY RECOMMENDED THAT A 3" TO 4" THICK CONCRETE MUD MAT BE POURED OVER THE SUBGRADE ONCE IT IS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE MUD MAT WILL ALSO PROVIDE BEARING FOR THE BLOCKS THAT TEMPORARILY SUPPORT THE SPILLWAY PIPE UNTIL THE CRADLE CAN BE POURED. THE METHOD OF BLOCK SUPPORT FOR THE PIPE PROPOSED BY THE CONTRACTOR SHOULD BE SUBMITTED TO THE JOHN R. McADAMS COMPANY FOR REVIEW.
- BEGIN CONSTRUCTION OF THE NEW EMBANKMENT. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8" THICK LIFTS PRIOR TO COMPACTION, UNLESS DIRECTED OTHERWISE BY THE ON-SITE GEOTECHNICAL ENGINEER. FILL LIFTS SHALL BE CONTINUOUS OVER THE ENTIRE LENGTH OF FILL. IF IT IS NECESSARY, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO FINAL GRADE IN ORDER TO ACHIEVE PROPER COMPACTION.
- AS CONSTRUCTION OF THE EMBANKMENT MOVES FORWARD, IT WILL BE NECESSARY TO INSTALL THE CONCRETE CRADLE. SEE NOTE ON CRADLE DETAIL (SHEET C9.10). THE PROPOSED STRUCTURAL FILL MATERIAL SHALL BE UTILIZED AS THE FORMWORK FOR THE CONCRETE CRADLE. THE STRUCTURAL FILL SHOULD BE INSTALLED AND COMPACTED UP TO THE TOP OF CONCRETE CRADLE ELEVATION. ONCE THE STRUCTURAL FILL REACHES THE NEXT DOWNSTREAM JUNCTION BOX OR HEADWALL AND IS COMPACTED TO THE ELEVATION OF THE TOP OF THE CONCRETE CRADLE, EXCAVATE THE CONCRETE CRADLE TRENCH PER THE PROVIDED DETAILS AND CONSTRUCT THE CONCRETE CRADLE AS PER THE PROVIDED CONCRETE CRADLE DETAIL. THE CRADLE SHALL NOT BE BEDDED ON STONE MATERIAL.
- INSTALL RISER / BARREL ASSEMBLY, ALONG WITH THE EMERGENCY DRAIN SYSTEM. INSTALL 24" RCP OUTLET BARREL SPILLWAY FILTER FROM THE DETAILS SHOWN ON SHEET C9.09.
- CONSTRUCT EMBANKMENT PER SPECIFICATIONS LISTED IN THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES AND REQUIREMENTS OF THE ON-SITE GEOTECHNICAL ENGINEER. ALL CHARACTERISTICS OF THE EMBANKMENT FILL MATERIAL SHALL MEET THE STANDARDS SET FORTH IN THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES, INCLUDING COMPACTION AND MOISTURE REQUIREMENTS. IF NECESSARY TO ACHIEVE PROPER COMPACTION, THE EMBANKMENT FILL MATERIAL WILL BE REBUILT IN HORIZONTAL LIFTS AND CUT BACK TO PROPER FINAL GRADE. ANY HAND COMPACTION ACTIVITIES AROUND SPILLWAY OR DRAIN STRUCTURES SHALL BE CONDUCTED IN 4-INCH LOOSE LIFTS AND BE TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT. ALL COMPACTION AND MOISTURE TESTING SHALL BE CARRIED OUT AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER AND AS LISTED IN THE "BERM AND SOIL COMPACTION SPECIFICATIONS" NOTES.
- UPON COMPLETION OF DAM EMBANKMENT, PROMPTLY STABILIZE AND SEED DAM EMBANKMENT PER SEEDING SCHEDULE. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER THE PERMANENT SEEDING SCHEDULE FOUND ON SHEET C9.11.
- SCHEDULE A FINAL AS-BUILT INSPECTION AND AS-BUILT SURVEY WITH THE ENGINEER AND SURVEYOR. AN AS-BUILT INSPECTION AND SURVEY SHALL BE SCHEDULED BEFORE IMPOUNDING WATER IN THE FACILITY AND A MINIMUM OF 60 DAYS PRIOR TO THE ANTICIPATED DATE OF CERTIFICATION APPROVAL. ANY COMMENTS OR DEFICIENCIES IN THE SCM CONSTRUCTION MUST BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AND OWNER BEFORE CERTIFICATION SHALL BE GRANTED.

## BERM AND SOIL COMPACTION SPECIFICATIONS

- PRIOR TO CONSTRUCTION, THE ON-SITE GEOTECHNICAL ENGINEER SHALL IDENTIFY BORROW / FILL AREAS AND VERIFY THEIR SUITABILITY FOR USE WITHIN THE DAM EMBANKMENT. ALSO, THE ON-SITE GEOTECHNICAL ENGINEER SHALL PERFORM STANDARD PROCTORS ON THE PROPOSED BORROW MATERIAL TO ENSURE THAT OPTIMUM MOISTURE CONTENT AND COMPACTION CAN BE ACHIEVED / CONTROLLED DURING CONSTRUCTION.
- ALL FILL MATERIALS TO BE USED FOR THE DAM EMBANKMENT SHALL BE TAKEN FROM BORROW AREAS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, WOOD, STONES GREATER THAN 6", AND FROZEN OR OTHER OBJECTIONABLE MATERIAL. THE FOLLOWING SOIL TYPES ARE SUITABLE FOR USE AS FILL WITHIN THE DAM EMBANKMENT AND KEY TRENCH: ML AND CL. ALL FILL MATERIALS SHALL BE APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER FOR THE INTENDED USE.
- FILL PLACEMENT FOR THE EMBANKMENT SHALL NOT EXCEED A MAXIMUM 8" LIFT (UNCOMPACTED). EACH LIFT SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF EMBANKMENT. BEFORE PLACEMENT OF FILL FOR THE BERM SECTION, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE SURFACE PROPERLY PREPARED FOR FILL PLACEMENT. FILL MATERIAL ADJACENT TO ALL SPILLWAY AND DRAINAGE STRUCTURES SHALL BE PLACED IN 4-INCH (UNCOMPACTED) LIFTS AND HAND-COMPACTED TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT.
- ALL FILL SOILS USED IN THE EMBANKMENT CONSTRUCTION SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). THE FILL SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN -1 TO +3 PERCENT OF ITS OPTIMUM MOISTURE CONTENT. COMPACTION TESTS SHALL BE PERFORMED BY THE ON-SITE GEOTECHNICAL ENGINEER DURING CONSTRUCTION TO VERIFY THAT THE PROPER COMPACTION LEVEL HAS BEEN REACHED. THE FILL SHOULD BE COMPACTED USING A SHREEPSHOOT TYPE COMPACTOR. IN ORDER TO PREVENT DAMAGE TO THE PIPE, NO COMPACTION EQUIPMENT SHALL CROSS ANY PIPE UNTIL MINIMUM COVER IS ESTABLISHED ALONG THE PIPE.
- THE DESIGN ENGINEER SHALL BE PROVIDED WITH REPORTS AND CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE GEOTECHNICAL ASPECTS OF THE FACILITY HAVE BEEN CONSTRUCTED PER PLAN. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY. THESE REPORTS AND CERTIFICATION WILL BE NEEDED DURING THE AS-BUILT CERTIFICATION PROCESS FOR THIS STORMWATER CONTROL MEASURE. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE TESTING AND OBSERVATION WITH THE ON-SITE GEOTECHNICAL ENGINEER.
- TESTING OF THE NEW FILL MATERIALS SHALL BE PERFORMED TO VERIFY THAT THE RECOMMENDED LEVEL OF COMPACTION IS ACHIEVED DURING CONSTRUCTION. THEREFORE, ONE DENSITY TEST SHALL BE PERFORMED FOR EVERY 2,500 SQUARE FEET OF AREA FOR EVERY LIFT OF FILL OR AS RECOMMENDED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- TESTING WILL BE REQUIRED ALONG THE 24" Ø RCP OUTLET BARREL AT A FREQUENCY OF ONE TEST PER 25 LF OF PIPE PER VERTICAL FOOT OF FILL OR AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.

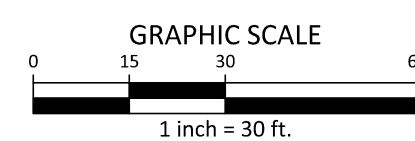
## STATEMENT OF RESPONSIBILITY

- ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THE STORMWATER CONTROL MEASURE SHALL BE THE RESPONSIBILITY OF THE OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.



STORMWATER WETPOND 'G' PLAN VIEW

1" = 30'



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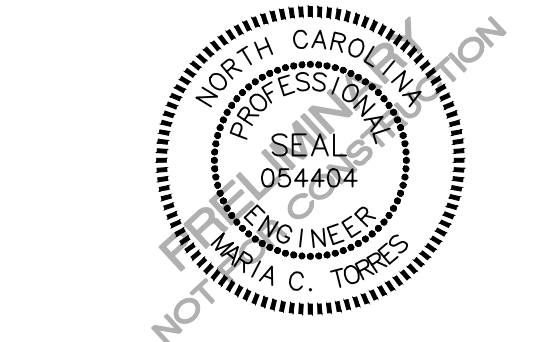
www.mcadamsco.com

**CLIENT**  
ALLIANCE GROUP OF NC, LLC  
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RALEIGH, NORTH CAROLINA 27615  
CONTACT: JACOB ANDERSON  
PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

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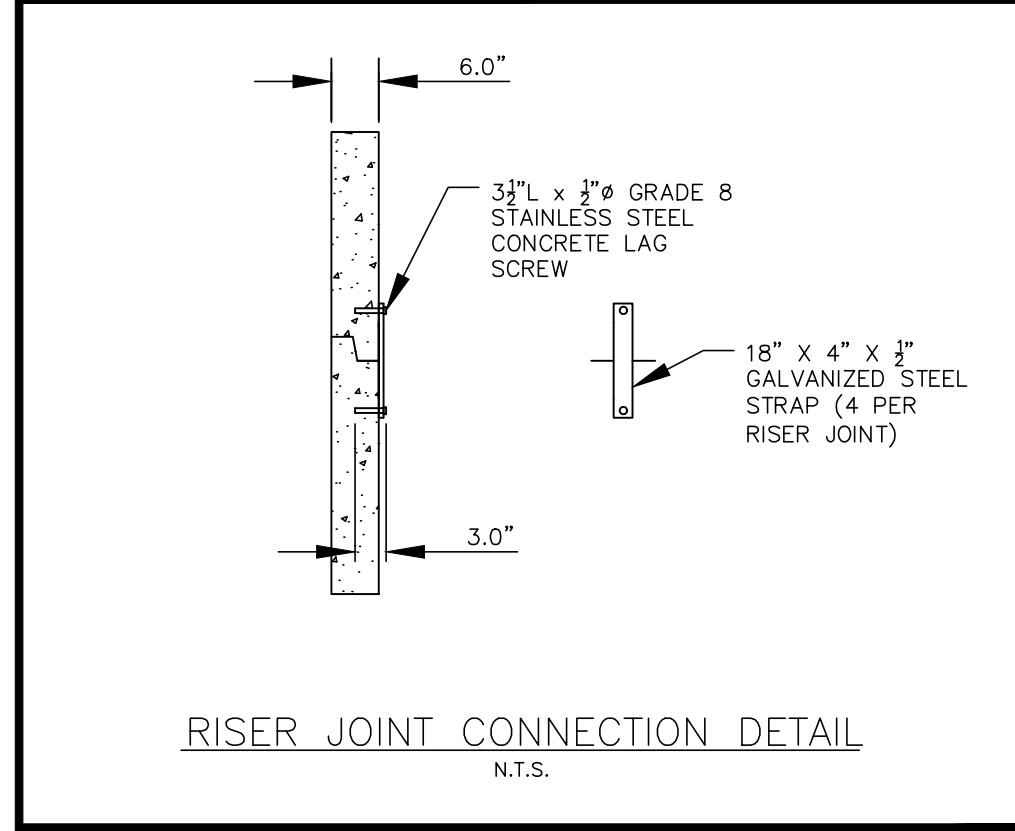
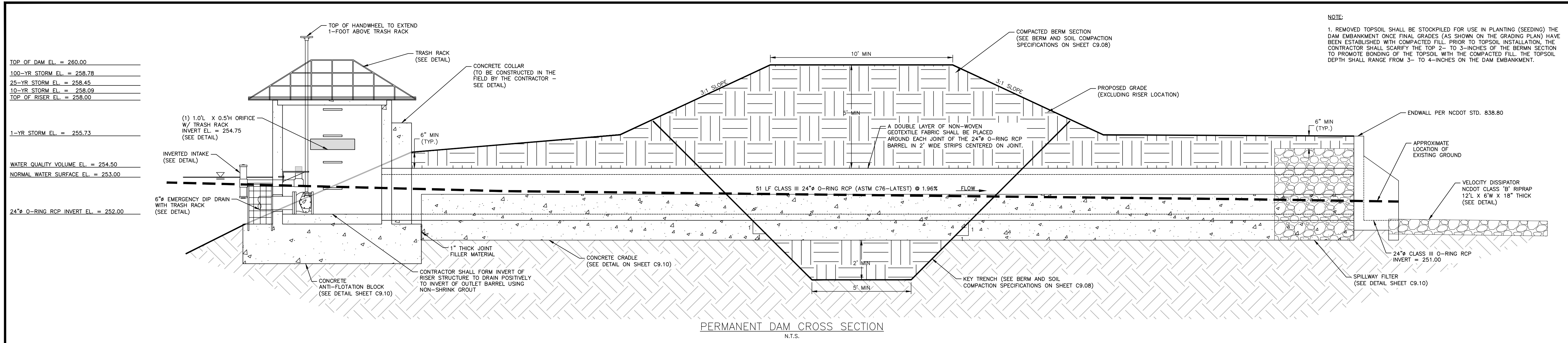
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CHECKED BY MCT  
DRAWN BY MMJ  
SCALE 1"=30'  
DATE 12.02.2024

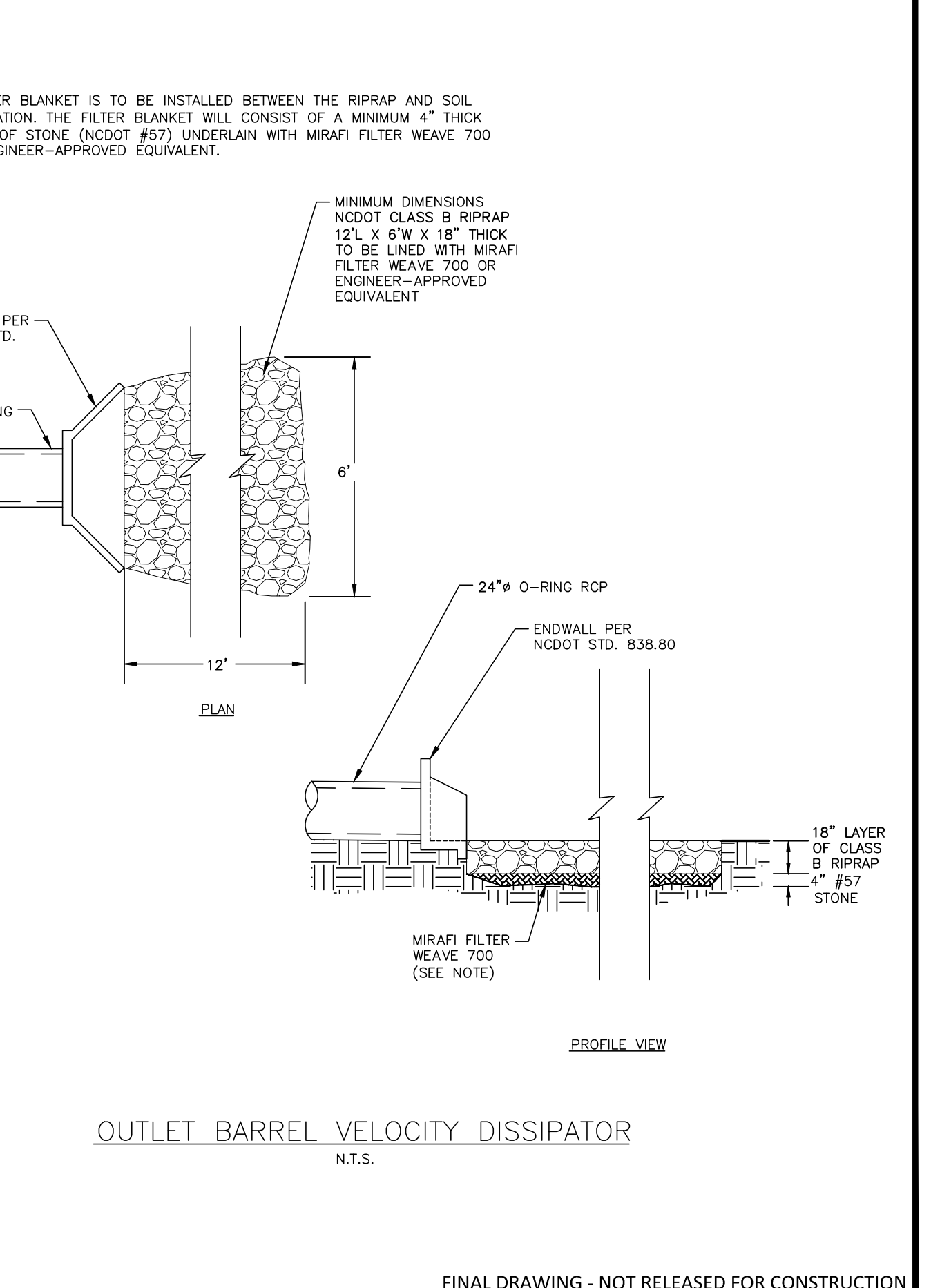
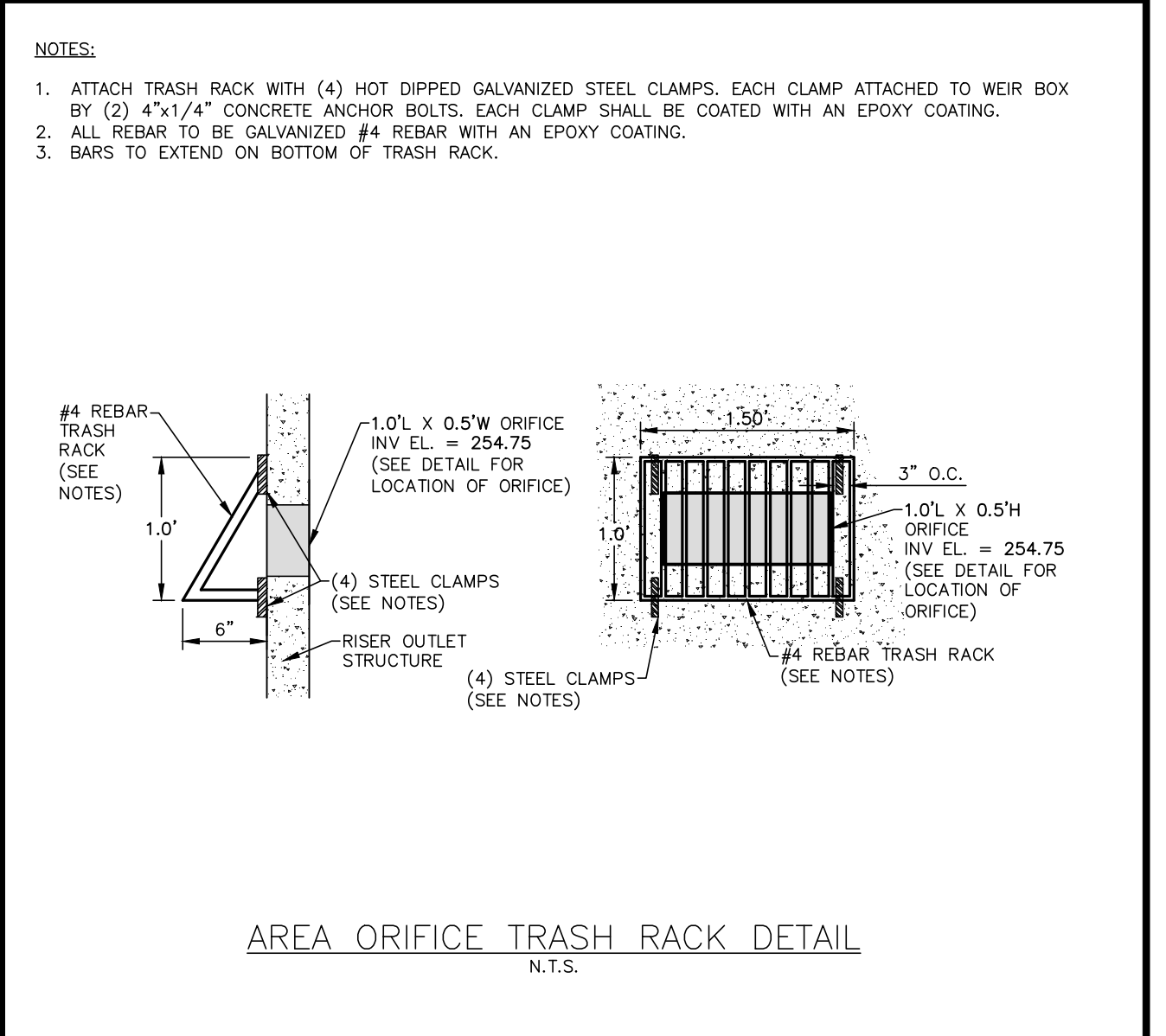
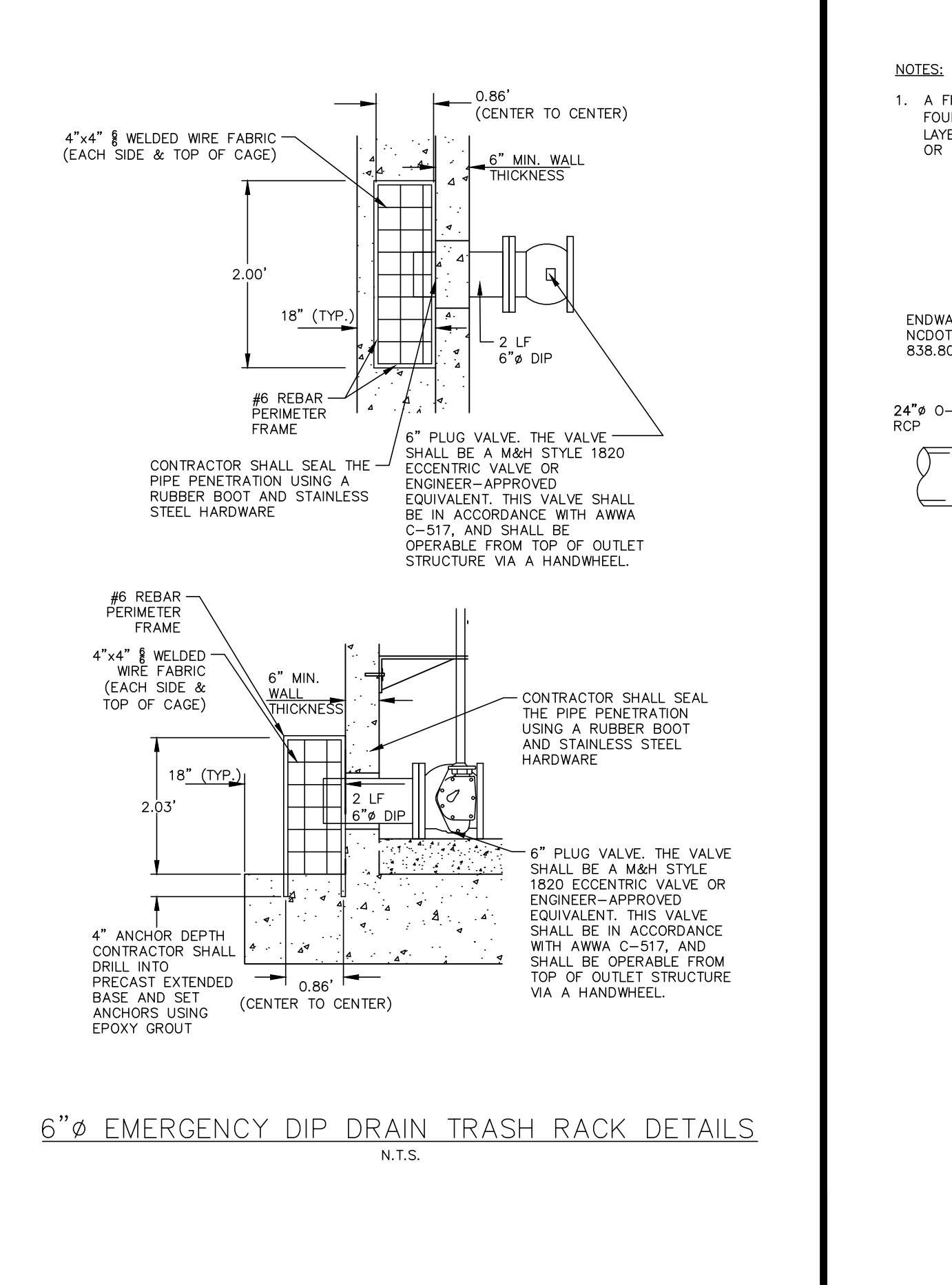
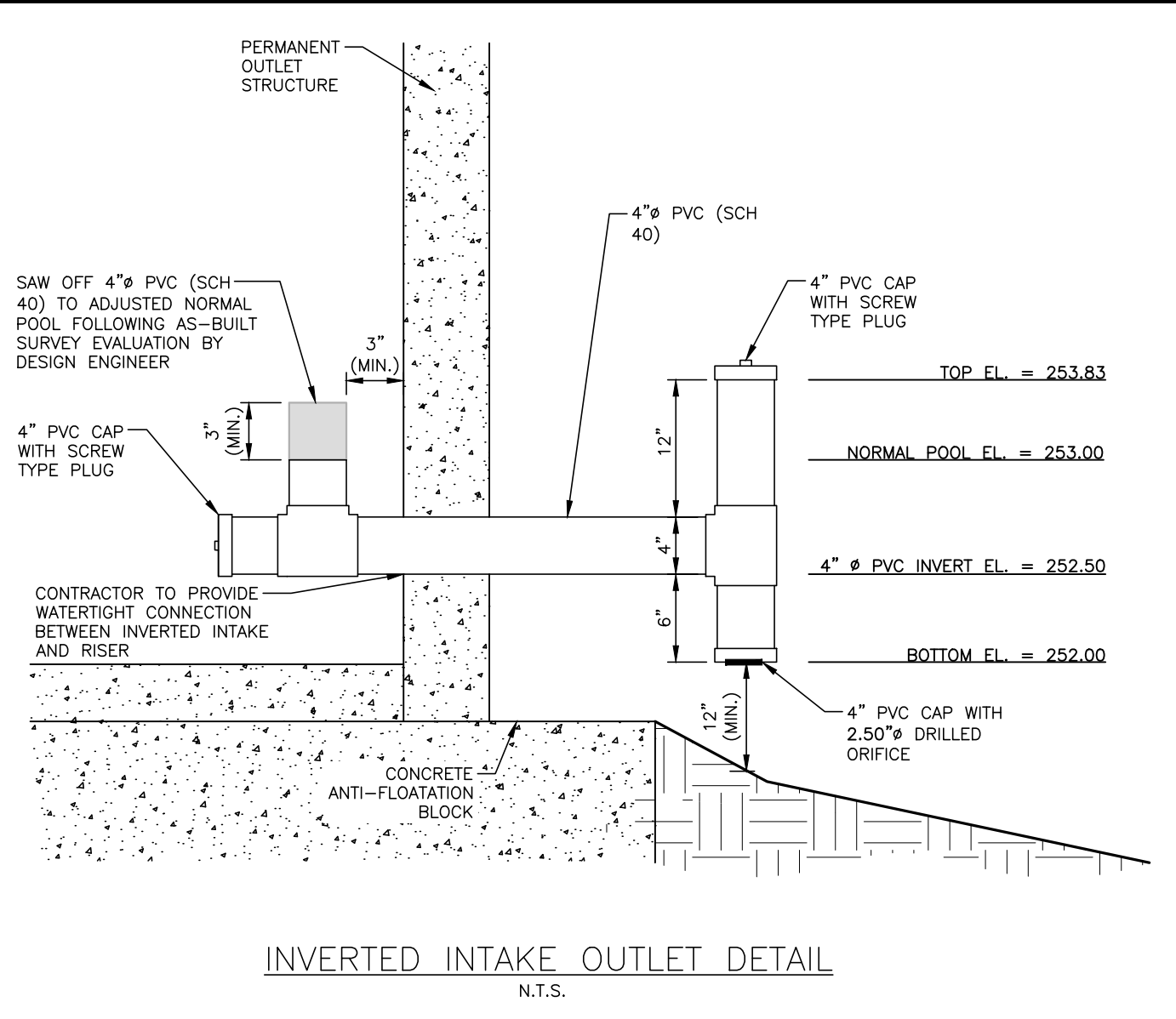
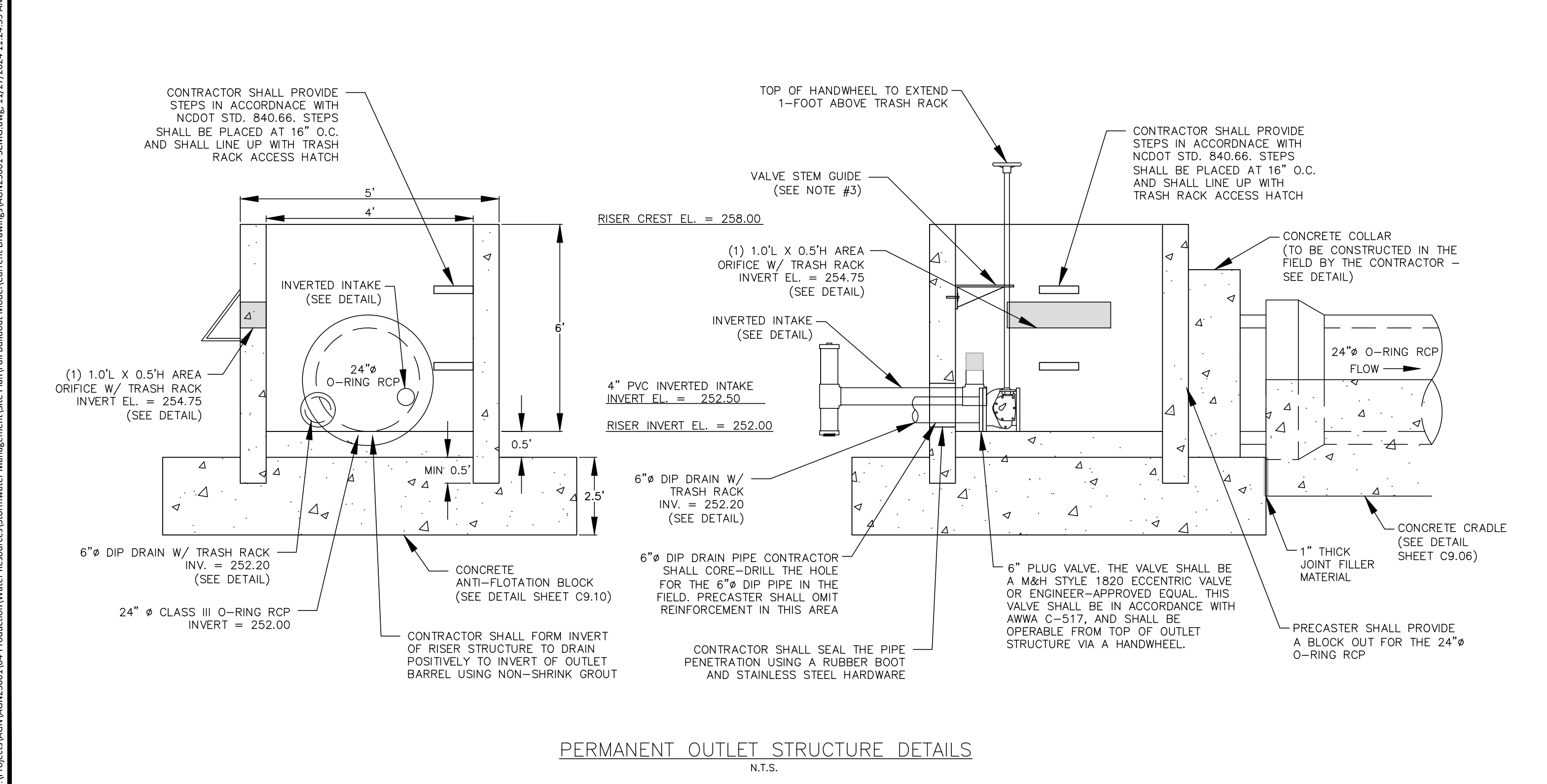
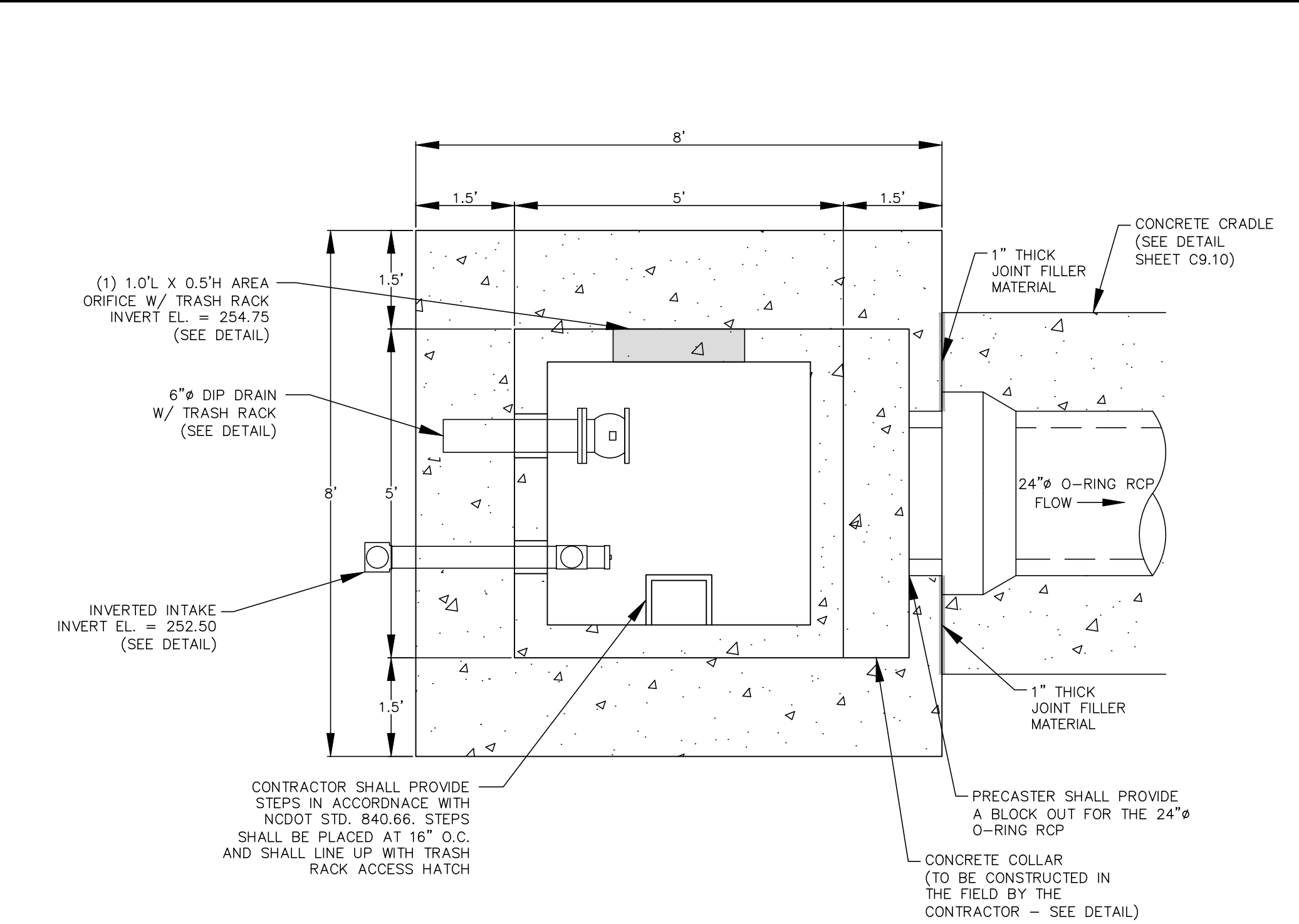
## SHEET

SCM G  
PLAN VIEW  
**C9.08**





- NOTES:**
1. CONCRETE ANTI-FLOTATION BLOCK TO BE PROVIDED WITH MINIMUM TEMPERATURE AND SHRINKAGE STEEL REINFORCEMENT.
  2. TRASH RACKS NOT SHOWN FOR CLARITY.
  3. THE NUMBER OF GUIDES FOR THE VALVE STEM SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THE VALVE STEM MUST BE OPERABLE FROM THE TOP OF THE RISER VIA THE HANDWHEEL WITH AN INSIGNIFICANT AMOUNT OF PLAY IN THE VALVE STEM.
  4. CONTRACTOR SHALL PROVIDE A JOINT IN THE OUTLET BARREL NO MORE THAN 5-FT FROM THE RISER.



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**PEARCE FARM - PHASES 1-3**  
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**CID-24-08**

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**PLAN INFORMATION**

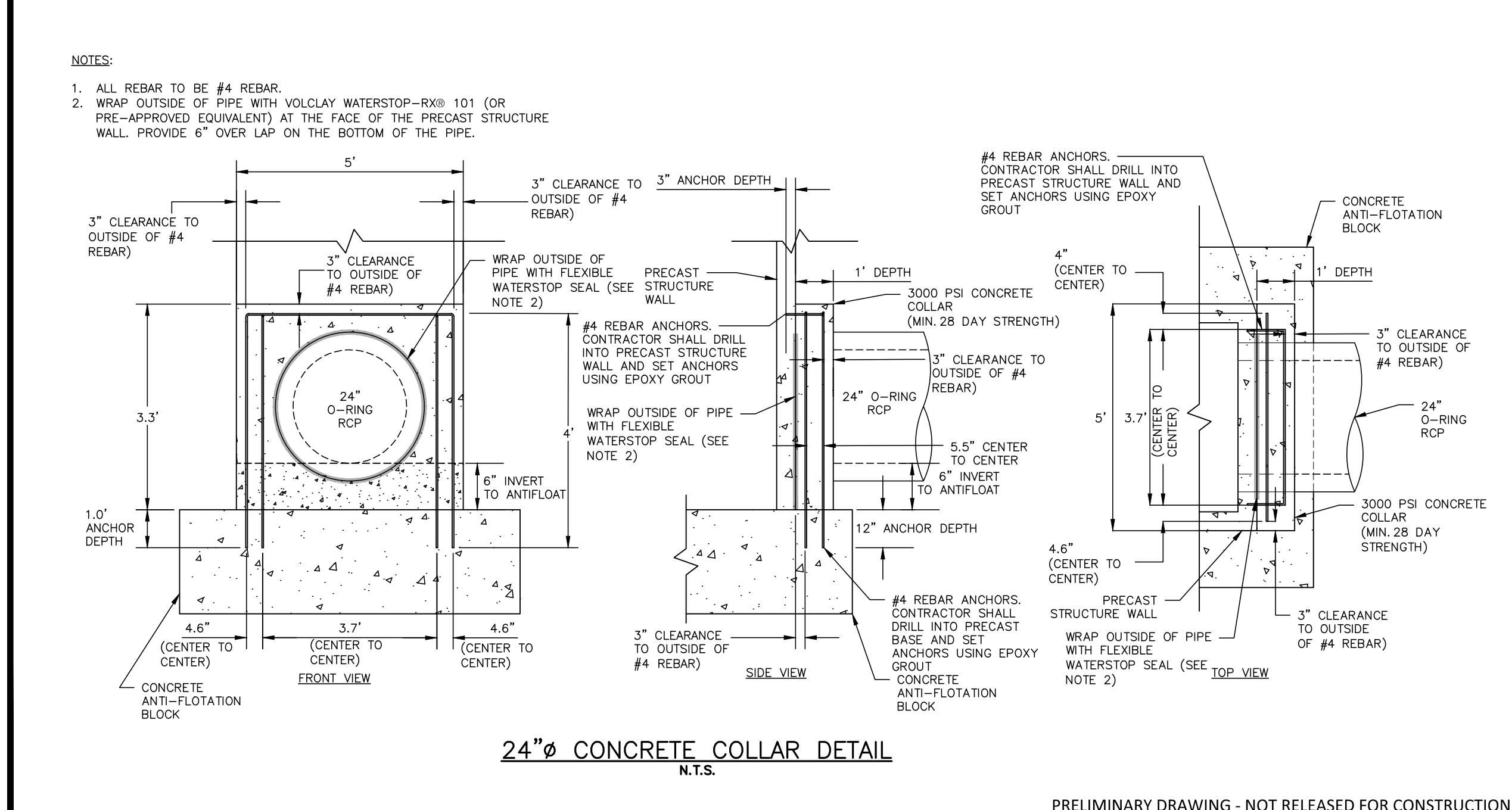
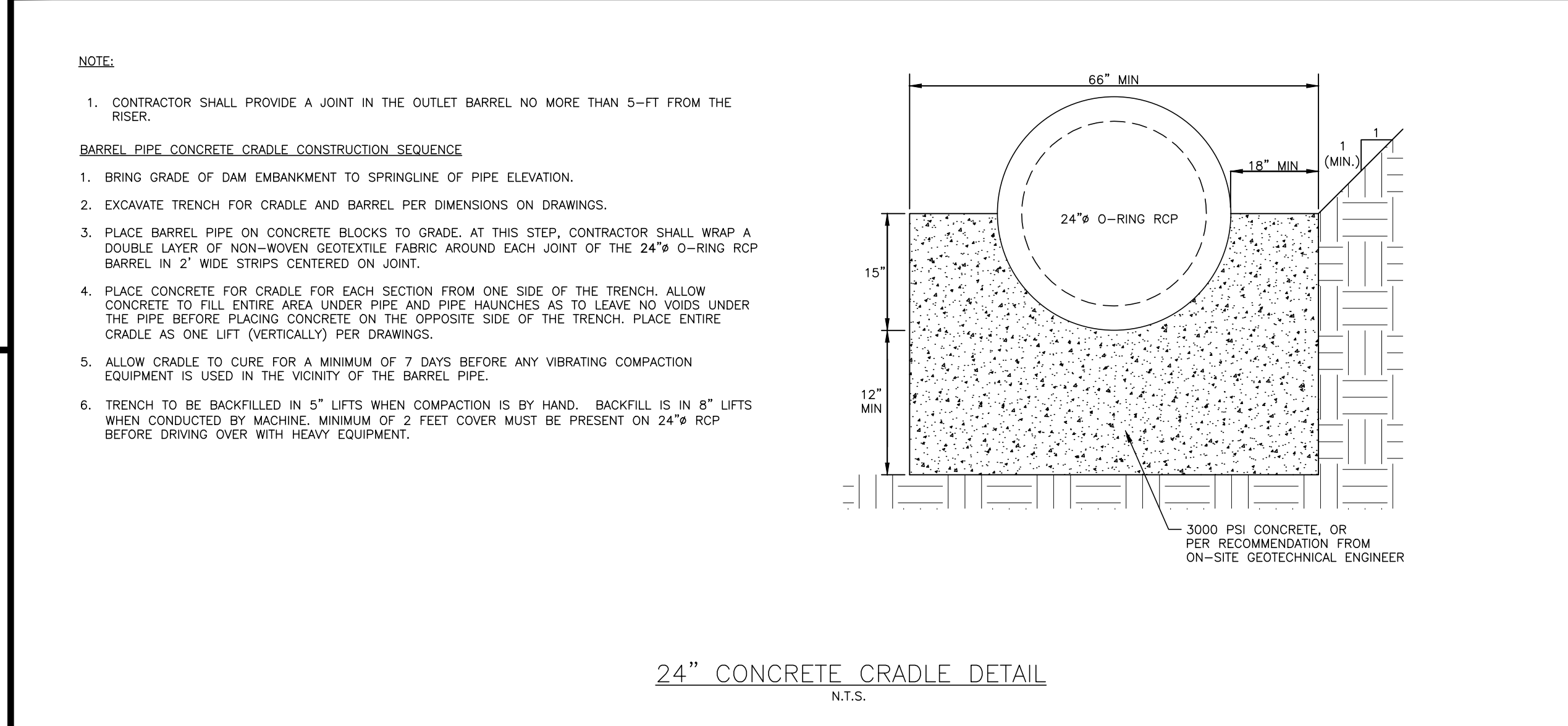
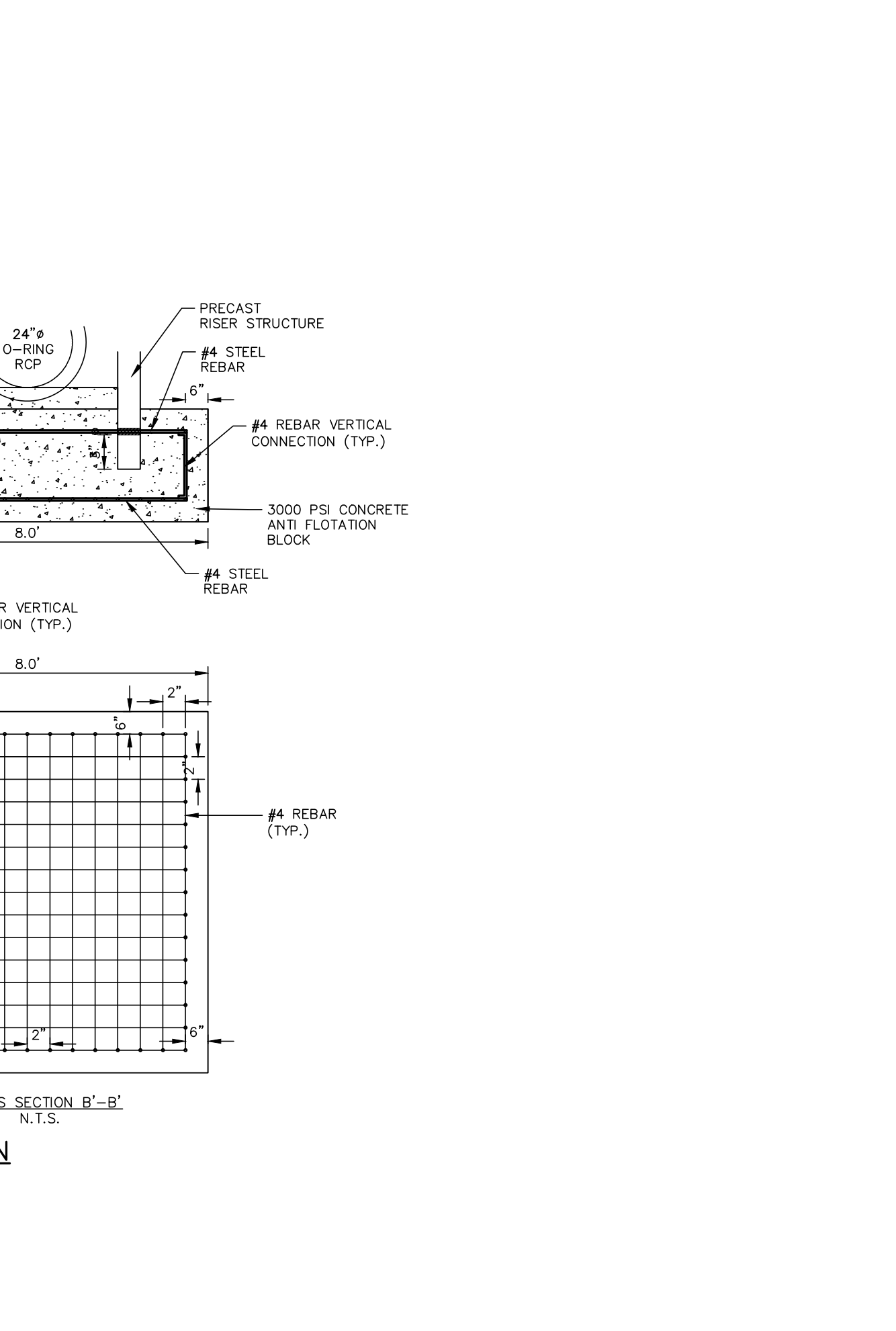
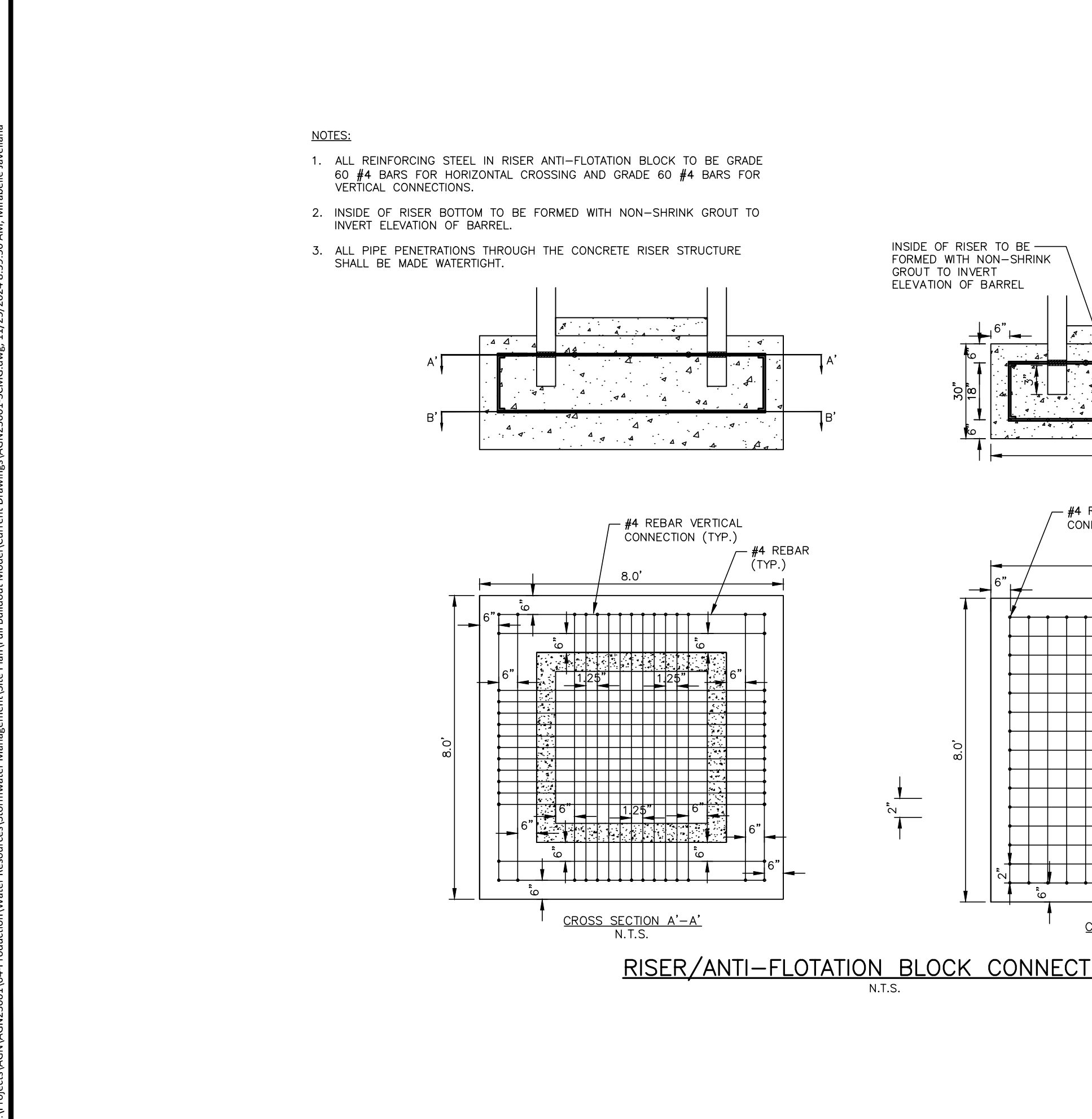
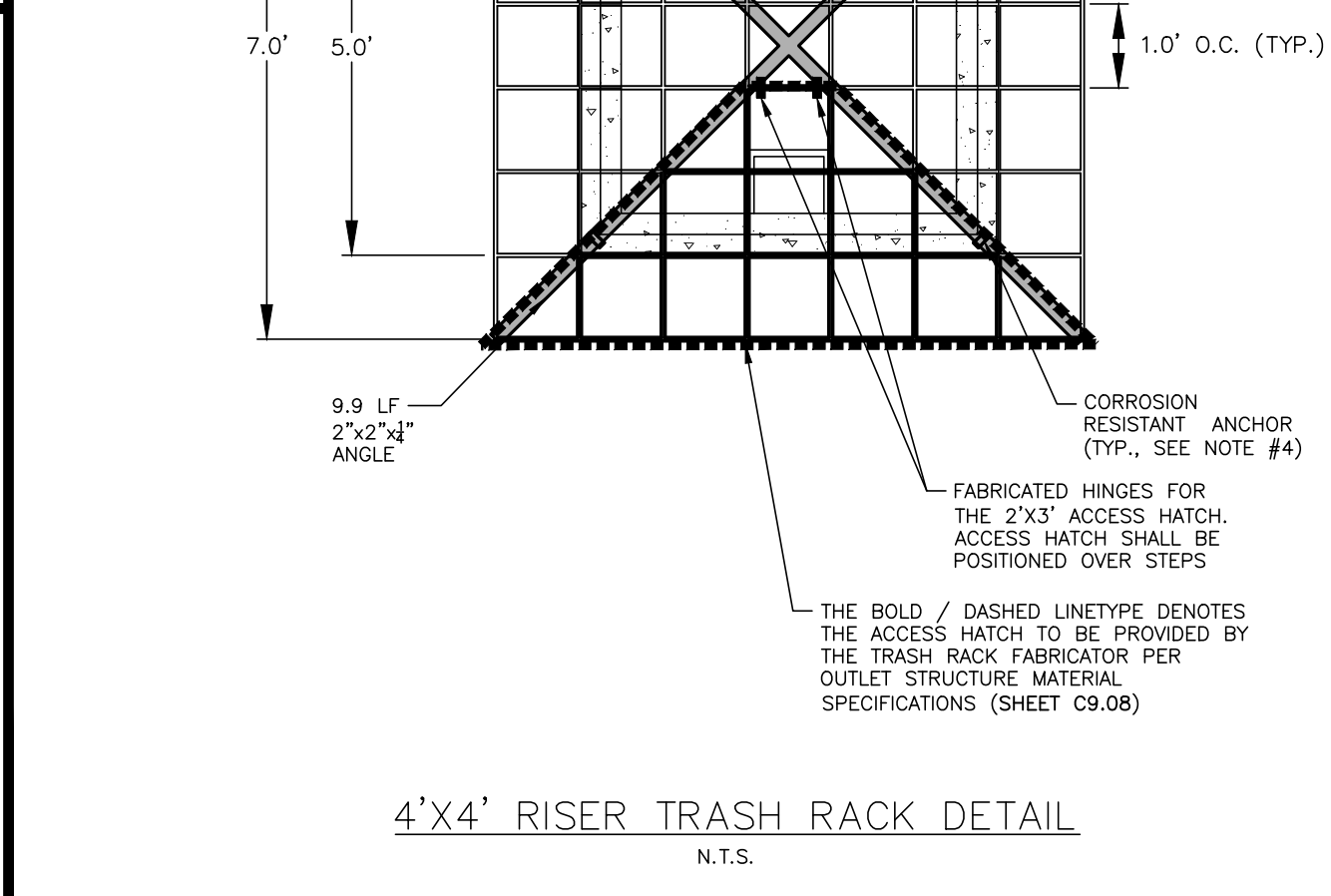
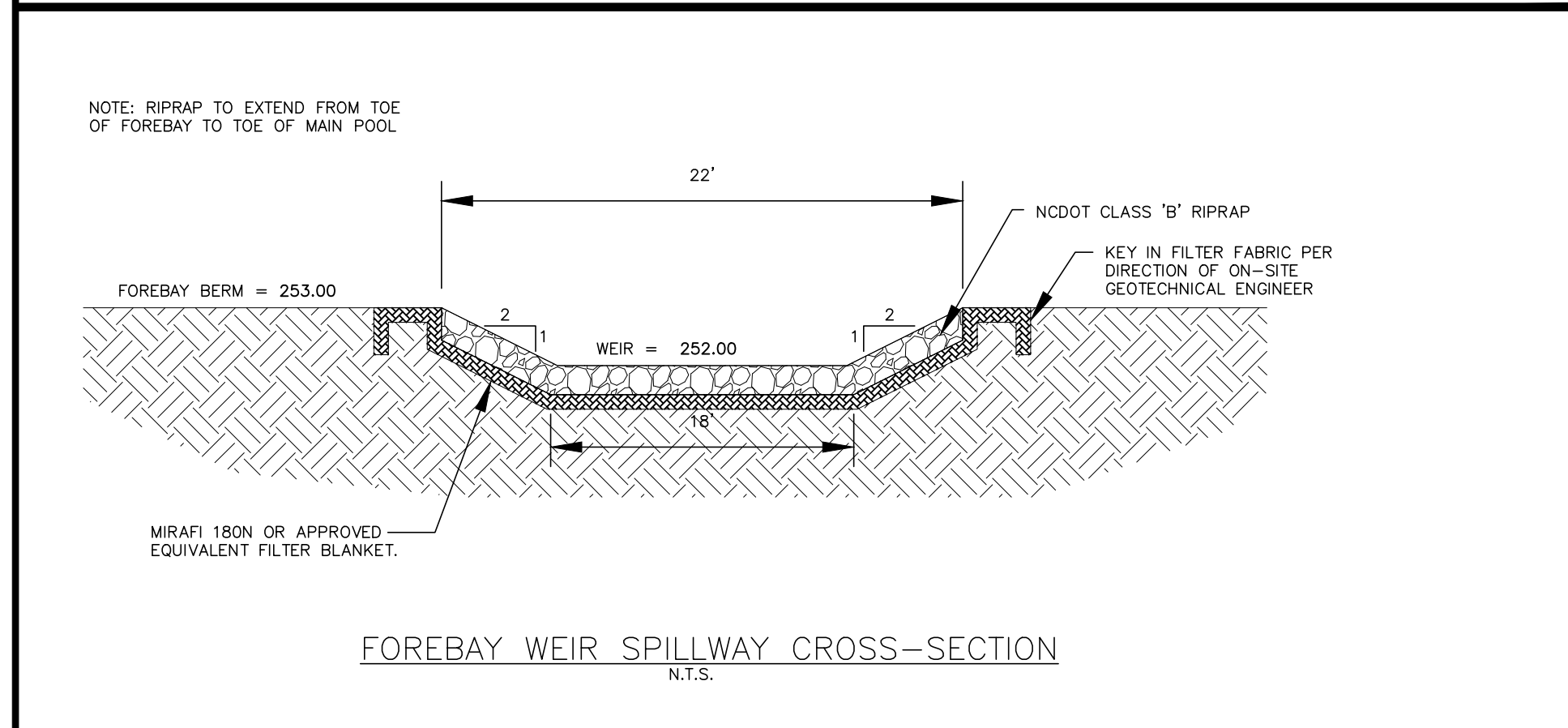
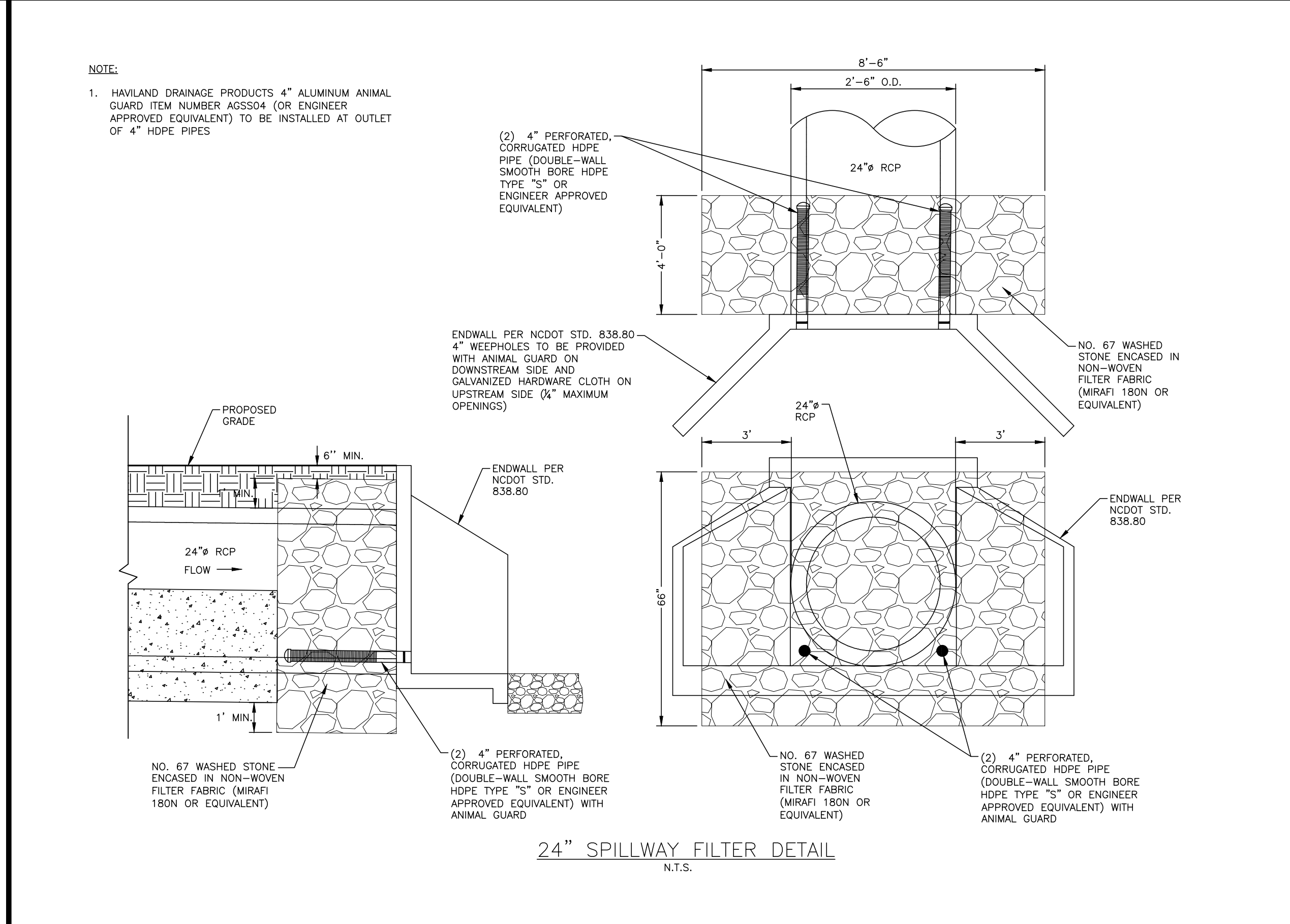
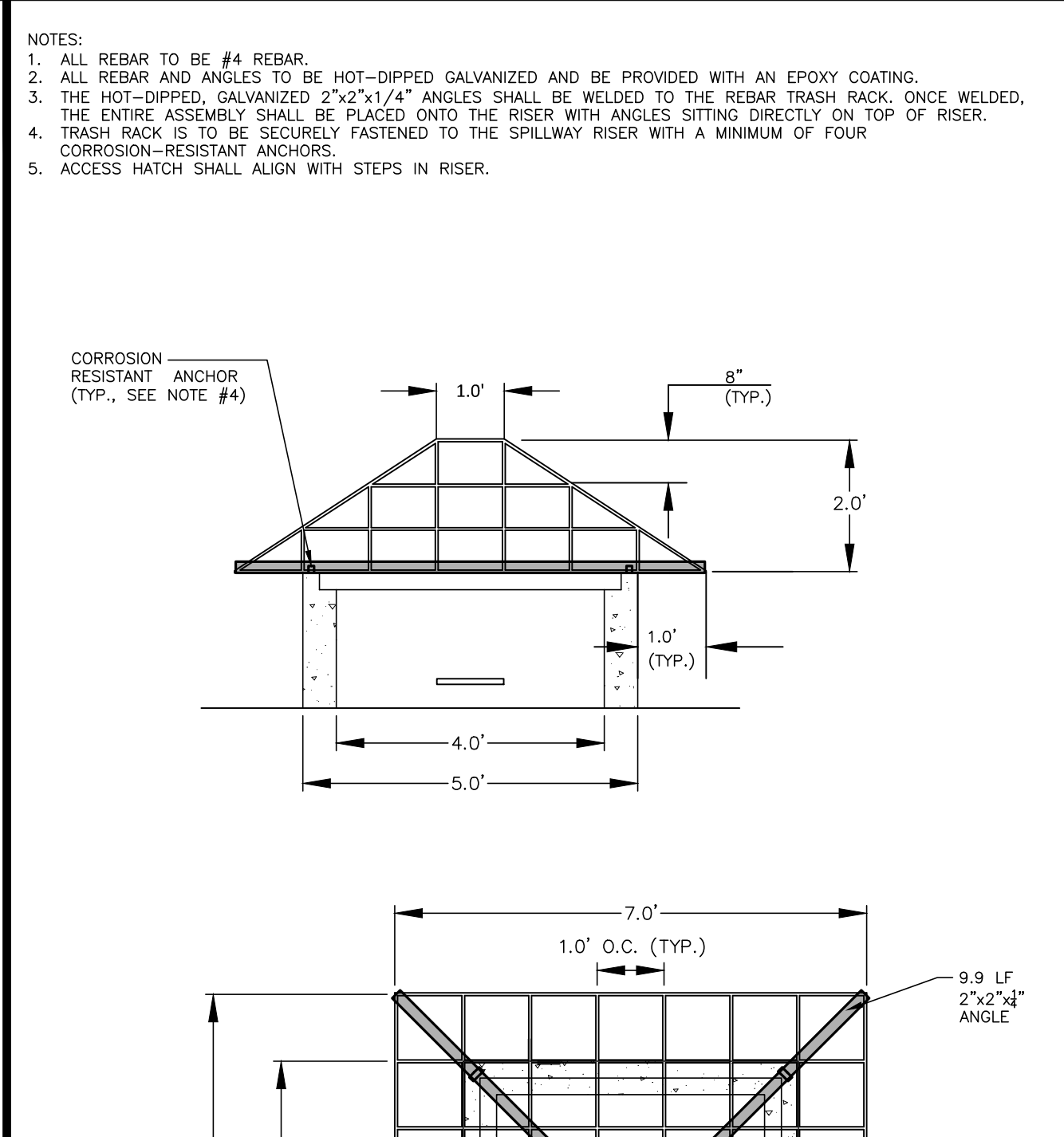
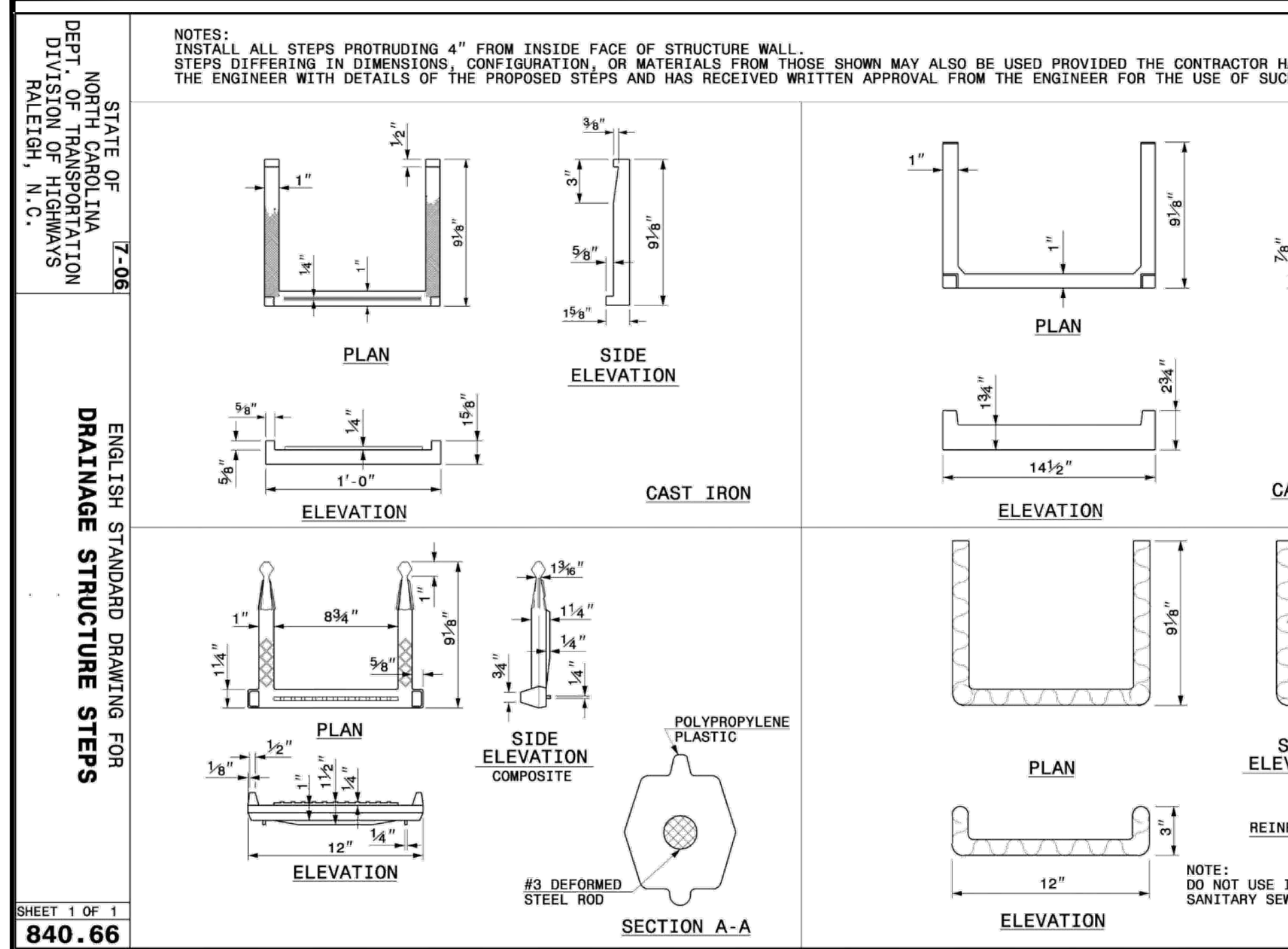
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 SCALE N.T.S.  
 DATE 12.02.2024

**SHEET**

SCM G  
 DETAILS  
**C9.09**

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION







# STORMWATER CONTROL MEASURE 'G' PLANTING PLAN SPECIFICATIONS

## PLANT SCHEDULE

| SYMBOL               | CODE | QTY | COMMON NAME      | BOTANICAL NAME                 | CONT   | REMARKS       |
|----------------------|------|-----|------------------|--------------------------------|--------|---------------|
| <b>GROUND COVERS</b> |      |     |                  |                                |        |               |
|                      | AISM | 230 | Swamp Milkweed   | Asclepias incarnata            | 4" pot | Shallow Land  |
|                      | IVBF | 228 | Blue Flag Iris   | Iris virginica                 | 4" pot | Shallow Water |
|                      | LCCF | 229 | Cardinal Flower  | Lobelia cardinalis             | 4" pot | Shallow Land  |
|                      | LELL | 231 | Longleaf Labelia | Lobelia elongata               | 4" pot | Shallow Water |
|                      | PCPW | 233 | Pickeral Weed    | Pontederia cordata             | 4" pot | Shallow Water |
|                      | STSB | 231 | Softstem Bulrush | Schoenoplectus tabernaemontani | 4" pot | Shallow Water |

## SEEDBED PREPARATION

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3-4 INCHES DEEP OVER ADVERSE SOIL CONDITIONS. TOPSOIL SHOULD BE INCORPORATED INTO THE FINAL GRADING OF THE BASIN SIDE SLOPES AND SHALLOW LAND AND SHALLOW WATER AREAS. CONTRACTOR SHOULD SCARIFY THE TOP 3-4 INCHES OF THE COMPACTED FILL TO PROMOTE BONDING WITH TOPSOIL.
- RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- PER ONE TIME ONLY, APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. AFTER PERMANENT COVER IS ESTABLISHED.
- CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT.

## TEMPORARY SEEDING SCHEDULE

| SEEDING DATE    | SEEDING MIXTURE | APPLICATION RATE |
|-----------------|-----------------|------------------|
| JAN 1 - MAY 1   | RYE (GRAIN)     | 120 LBS/AC       |
| MAY 1 - AUG 15  | KOBE LESPEDEZA  | 50 LBS/AC        |
| AUG 15 - DEC 30 | GERMAN MILLET   | 40 LBS/AC        |
|                 | RYE (GRAIN)     | 120 LBS/AC       |

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 750 LB/AC 10-10-10 FERTILIZER (FROM AUG 15 - DEC 30, INCREASE 10-10-10 FERTILIZER TO 1000 LB/AC).

**MULCH**  
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
JAN 1 - AUG 15: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

AUG 15 - DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

**NOTE:** USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE PERMANENT SEEDING SCHEDULE.

## PERMANENT SEEDING SCHEDULE (DAM EMBANKMENTS)

| SEEDING DATE      | SEEDING MIXTURE      | APPLICATION RATE                               |
|-------------------|----------------------|--|
| MARCH 1 - JUNE 31 | HYBRID BERMUDA GRASS | 1 LBS/1000 SF (OR MANUFACTURER SPECIFICATIONS) |
| SEPT 1 - OCT 31   |                      | 1 LBS/1000 SF (OR MANUFACTURER SPECIFICATIONS) |

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

**MULCH**  
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

**NOTE:** PERMANENT SEEDING SCHEDULE IS FOR SLOPES OF THE BASIN AND TOP OF BERM.

## PLANTING INSTRUCTIONS

### PLANTING TECHNIQUES

- INSURE THAT ROOTS, ONCE REMOVED FROM POT, ARE STRAIGHTENED AND FACE DOWNWARD.
- CREATE PLANTING AREA FOR EACH PLANT AND EXCAVATE PIT.
- PLACE PLANTS IN PIT INSURING ROOTS ARE FACING COMPLETELY DOWNWARD.
- HEEL IN SOIL AROUND PLANT AND PROCEED TO NEXT PLANTING LOCATION.
- NEWLY PLANTED PLANTS NEED TO BE FASTENED TO THE SUBSTRATE FOR THE ESTABLISHMENT OF NEW ROOTS.
- ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS SHALL BE CUT OFF CLEANLY.
- THE DIAMETER OF THE PITS FOR ALL VEGETATIVE STOCK SHALL BE AT LEAST THREE TIMES THE DIAMETER OF THE ROOT MASS. PLANT PIT WALL SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
- SET THE PLANTS UPRIGHT, IN THE CENTER OF THE PIT. THE BOTTOM OF THE ROOT MASS SHOULD BE RESTING ON UNDISTURBED SOIL.
- PLACE THE BACKFILL AROUND THE BASE AND SIDES OF THE ROOT MASS, AND WORK EACH LAYER TO SETTLE BACKFILL AND TO ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF THE BACKFILL. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
- BROKEN OR DAMAGED PARTS WILL BE CUT BACK TO UNDAUNAGED TISSUE, LEAVING AS MUCH GREEN BASAL TISSUE AS POSSIBLE ABOVE THE ROOTS. IF MORE THAN FIFTY PERCENT (50%) OF THE PLANT IS DAMAGED THEN CONTRACTOR SHALL REPLACE THE PLANT.

### CONTAINER STOCK / BARE ROOT

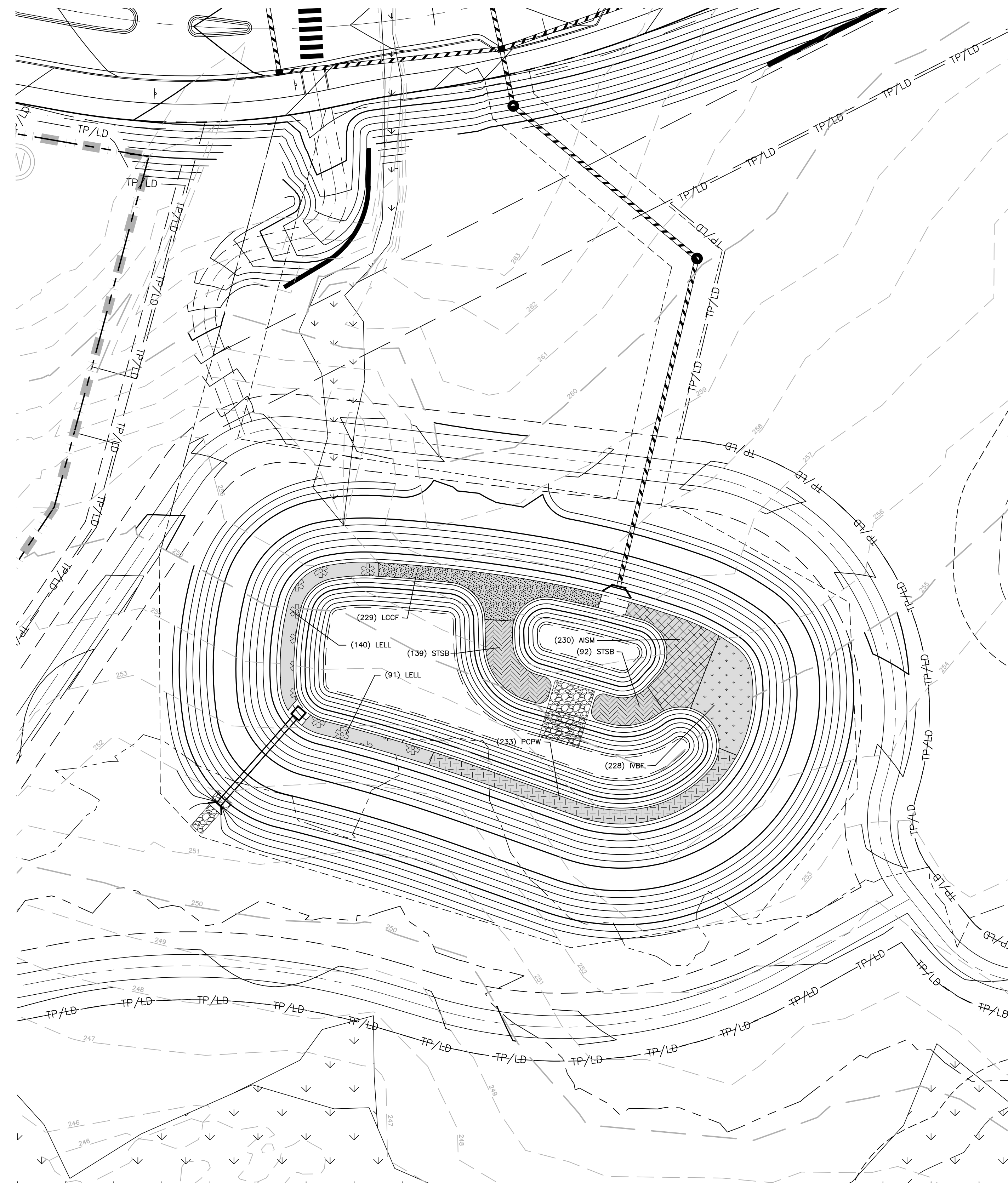
- STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER ONCE REMOVED FROM THE CONTAINER.
- CONTAINER PLANTS WILL NEED TO BE WATERED REGULARLY AND PLACED IN SHADY CONDITIONS UNTIL PLANTING OCCURS.
- BARE ROOT PLANTS ARE FOR IMMEDIATE PLANTING, OTHERWISE SEE D) BELOW.
- IF BARE ROOTS SPECIMENS ARE NOT TO BE PLANTED WITHIN FOUR (4) DAYS, TEMPORARY HOLDING OF BARE ROOT SPECIMENS ARE TO BE COVERED ENTIRELY BY A SUITABLE MEDIUM (E.G. SOIL, SAWDUST, MULCH OR THE LIKE) AND WATERED REGULARLY SO AS TO NOT DRY OUT.

### PLANT LOCATIONS

- NEW PLANTINGS SHALL BE LOCATED WHERE SHOWN ON PLAN EXCEPT WHERE CHANGES HAVE BEEN MADE IN PROPOSED CONSTRUCTION.
- NECESSARY ADJUSTMENTS SHALL BE MADE ONLY AFTER APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

### WATER

WATER SHALL BE POTABLE AND SHALL NOT CONTAIN ELEMENTS TOXIC TO PLANT LIFE.



STORMWATER WETPOND 'G' LANDSCAPE PLAN

1" = 30'

**McADAMS**  
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license number: C-0293, C-187  
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RALEIGH, NORTH CAROLINA 27615  
CONTACT: JACOB ANDERSON  
PHONE: 919. 239. 9486

**AGNC**  
BROKERAGE | CONSULTING | PLANNING

**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

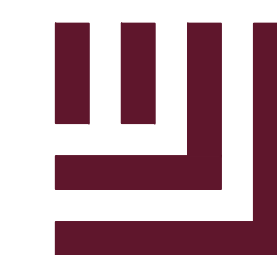
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| FILENAME    | AGN23001-SCMG |
| CHECKED BY  | MCT           |
| DRAWN BY    | MMJ           |
| SCALE       | 1" = 30'      |
| DATE        | 12.01.2024    |

**SHEET**  
SCM G  
LANDSCAPE PLAN  
**C9.11**

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

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|-------------|----------------|
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| FILENAME    | AGN23001-OALS1 |
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| DRAWN BY    | SMO            |
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| DATE        | 12.02.2024     |

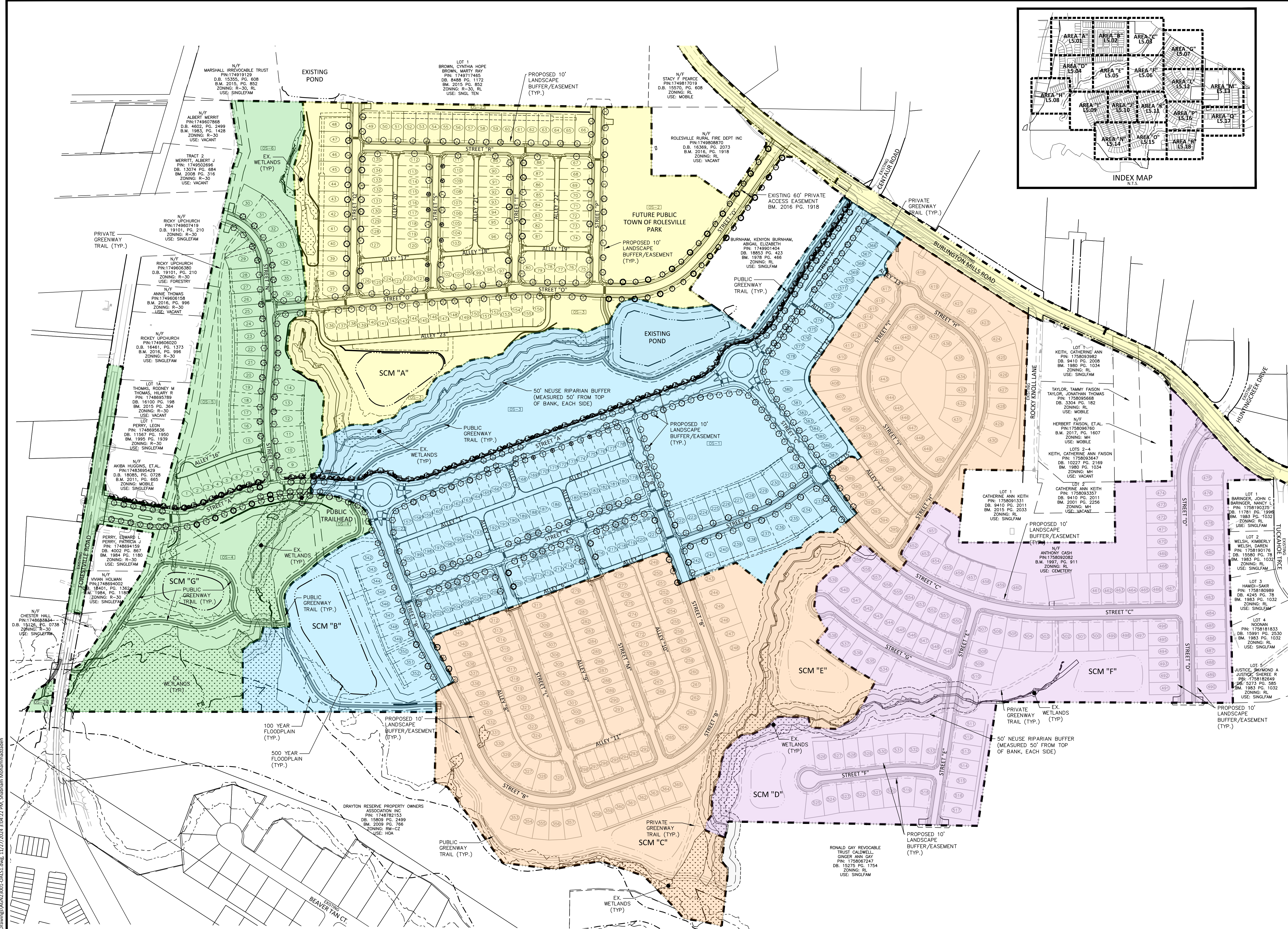
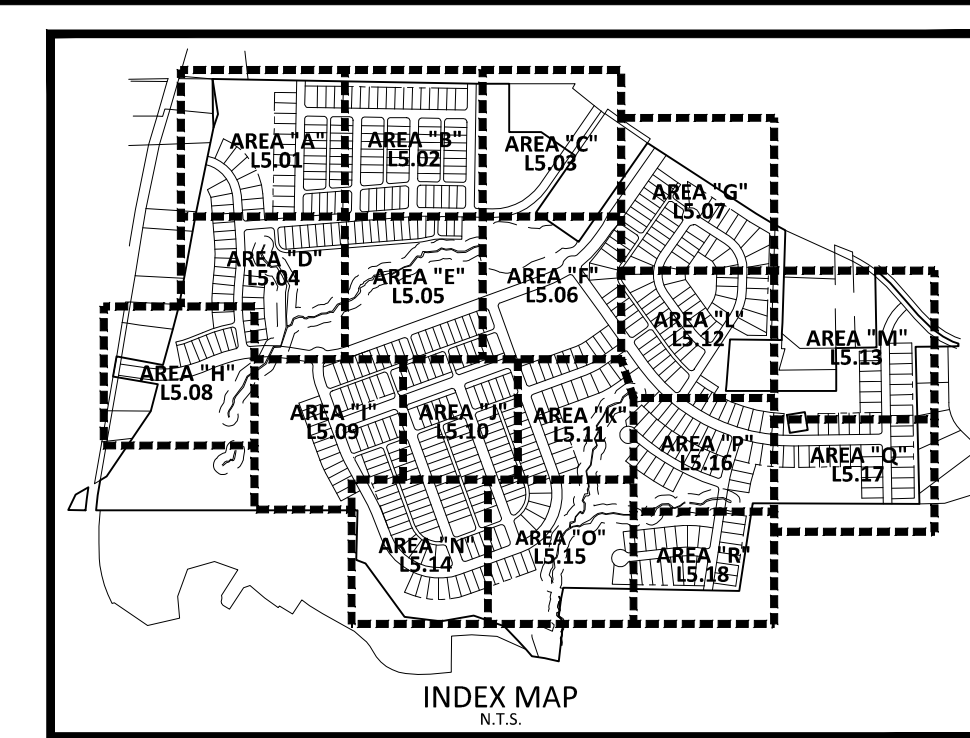
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OVERALL LANDSCAPE PLAN

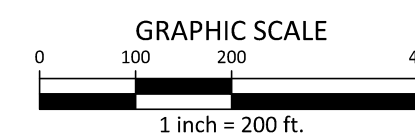
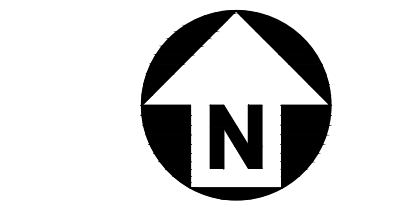
**L5.00**

**PLANT SCHEDULE**

| SYMBOL                  | CODE | BOTANICAL NAME                           |
|-------------------------|------|--|
| <b>CANOPY TREES</b>     |      |  |
| +                       | ARA  | Acer rubrum 'Autumn Blaze'               |
| +                       | ARR  | Acer rubrum 'Red Sunset'                 |
| +                       | ARS  | Acer rubrum 'Summer Red'                 |
| +                       | ASL  | Acer saccharum 'Legacy'                  |
| +                       | CBE  | Carpinus betulus                         |
| +                       | CIP  | Corya illinoensis                        |
| +                       | CBS  | Catapa bignonioides                      |
| +                       | FGA  | Fagus grandifolia                        |
| +                       | FPG  | Fraxinus pennsylvanica                   |
| +                       | GBA  | Ginkgo biloba 'Autumn Gold' TM           |
| +                       | LTT  | Liriodendron tulipifera                  |
| +                       | MGD  | Magnolia grandiflora 'D.D. Blanchard' TM |
| +                       | NSS  | Nyssa sylvatica                          |
| +                       | POA  | Platanus occidentalis                    |
| +                       | QAW  | Quercus alba                             |
| +                       | QCS  | Quercus coccinea                         |
| +                       | QLO  | Quercus lyrata                           |
| +                       | QMB  | Quercus marilandica                      |
| +                       | QNN  | Quercus nuttallii                        |
| +                       | QPP  | Quercus palustris                        |
| +                       | QPW  | Quercus phellos                          |
| +                       | QVS  | Quercus virginiana                       |
| +                       | TDB  | Taxodium distichum                       |
| +                       | UAP  | Ulmus americana 'Princeton'              |
| +                       | UPB  | Ulmus parvifolia 'Bosque'                |
| +                       | ZSC  | Zelkova serrata 'Green Vase'             |
| +                       | ZSM  | Zelkova serrata 'Myrmar'                 |
| <b>UNDERSTORY TREES</b> |      |  |
| +                       | CCP  | Cercis canadensis 'Forest Pansy' TM      |
| <b>EVERGREEN SHRUBS</b> |      |  |
| +                       | IWN  | Ilex vomitoria 'Nona'                    |
| +                       | IPFS | Illicium parviflorum 'Florida Sunshine'  |
| +                       | MMWS | Mahonia x media 'Winter Sun'             |
| +                       | OFSO | Osmanthus fragrans                       |
| +                       | VTAR | Viburnum tinus                           |



| SITE LEGEND     |                               | PHASE LEGEND |  |
|-----------------|-------------------------------|--------------|--|
| +               | SIGNAGE                       | PHASE 1      |  |
| +               | SITE LIGHTING                 | PHASE 2      |  |
| +               | LIGHT POLE                    | PHASE 3      |  |
| +               | TRAFFIC DIRECTIONAL ARROW     | PHASE 4      |  |
| +               | ACCESSIBLE PARKING STALL      | PHASE 5      |  |
| +               | VAN ACCESSIBLE PARKING STALL  |              |  |
| +               | PARKING SPACE COUNT           |              |  |
| ACCESSIBLE RAMP |                               |              |  |
| ---             | PHASE LINE                    |              |  |
| ---             | PROPERTY LINE                 |              |  |
| ---             | RIGHT-OF-WAY LINE             |              |  |
| ---             | LOT LINE                      |              |  |
| ---             | EASEMENT LINE                 |              |  |
| ---             | CENTERLINE                    |              |  |
| ---             | 10' LANDSCAPE BUFFER/EASEMENT |              |  |



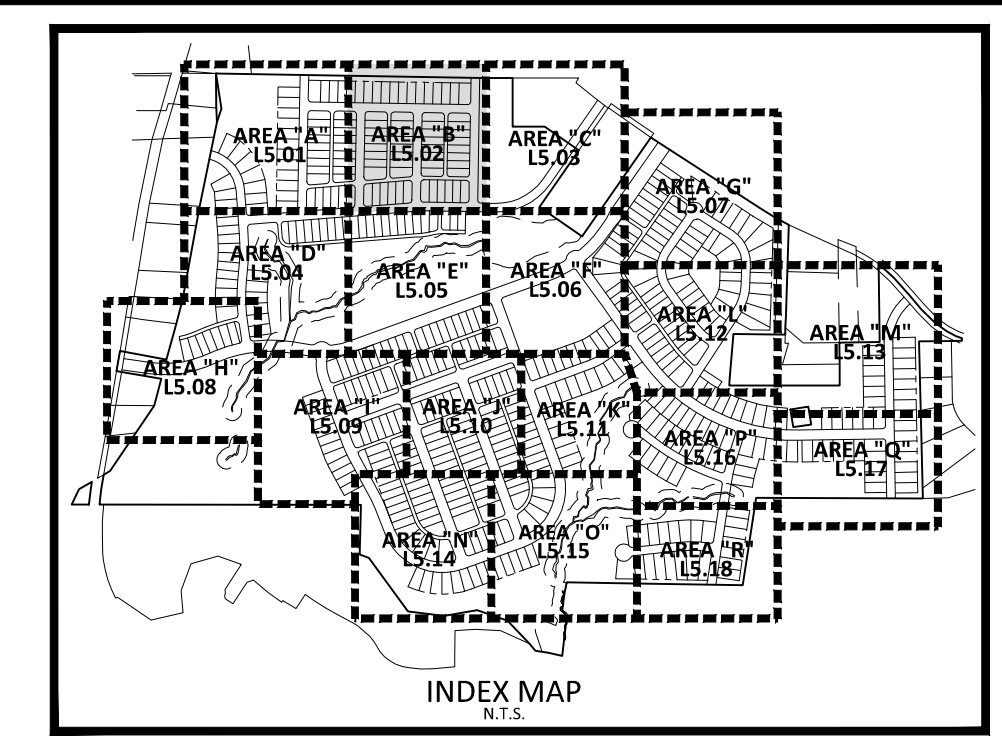
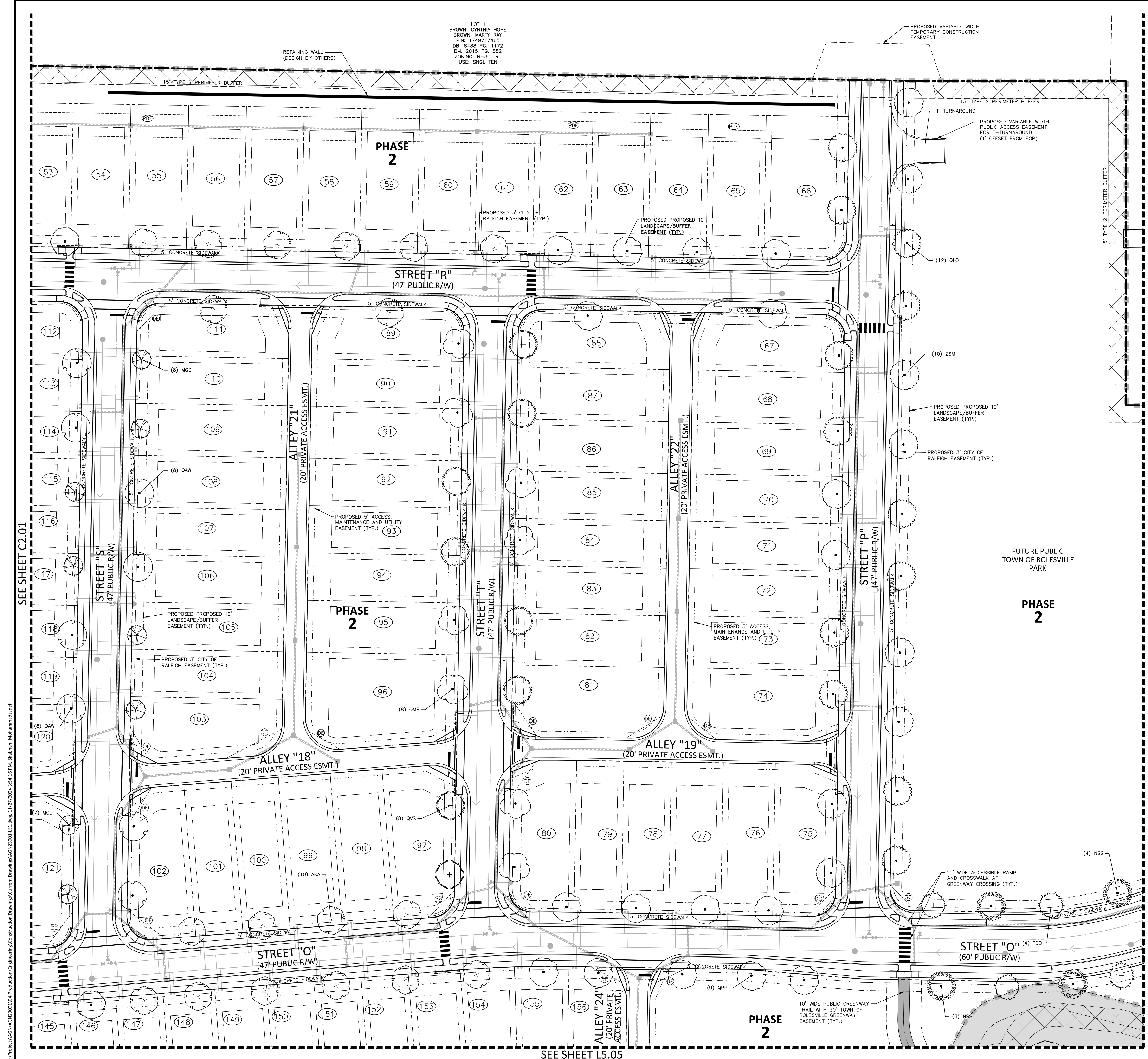
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- SITE LEGEND**
- SIGNAGE
  - SITE LIGHTING
  - LIGHT POLE
  - TRAFFIC DIRECTIONAL ARROW
  - ACCESSIBLE PARKING STALL
  - VAN ACCESSIBLE PARKING STALL
  - PARKING SPACE COUNT
  - ACCESSIBLE RAMPS
  - PHASE LINE
  - PROPERTY LINE
  - RIGHT-OF-WAY LINE
  - LOT LINE
  - EASEMENT LINE
  - CENTERLINE
  - 10' LANDSCAPE BUFFER/EASEMENT
  - 3' CITY OF RALEIGH EASEMENT
  - 5' ACCESS, MAINTENANCE AND UTILITY EASEMENT (ALLEYS)
- KEY LEGEND**
- PRIVATE STORM DRAINAGE EASEMENT
  - PUBLIC STORM DRAINAGE EASEMENT

**PLANT SCHEDULE AREA 'B'**

| SYMBOL              | CODE | BOTANICAL / COMMON NAME                                   |
|---------------------|------|---|
| <b>CANOPY TREES</b> |      |   |
| (ARA)               | ARA  | Acer rubrum 'Autumn Blaze' / Autumn Blaze Red Maple       |
| (MGD)               | MGD  | Magnolia grandiflora 'D.D. Blanchard' / Southern Magnolia |
| (NSS)               | NSS  | Nyssa sylvatica / Sour Gum                                |
| (QAW)               | QAW  | Quercus alba / White Oak                                  |
| (QLO)               | QLO  | Quercus lyrata / Overcup Oak                              |
| (QMB)               | QMB  | Quercus marilandica / Blackjack Oak                       |
| (QNN)               | QNN  | Quercus nuttallii / Nuttall Oak                           |
| (QPP)               | QPP  | Quercus palustris / Pin Oak                               |
| (QVS)               | QVS  | Quercus virginiana / Southern Live Oak                    |
| (TDB)               | TDB  | Taxodium distichum / Bald Cypress                         |
| (ZSM)               | ZSM  | Zelkova serrata 'Myrimar' / Myrimar Zelkova               |

**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

PROJECT NO. AGN23001  
 FILENAME AGN23001-L51  
 CHECKED BY JMH  
 DRAWN BY SMO  
 SCALE 1"=40'  
 DATE 12.02.2024

**SHEET**

**LANDSCAPE PLAN AREA 'B'**

# L5.02

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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## PEARCE FARM - PHASES 1-3

### CONSTRUCTION DRAWINGS - PACKAGE 1

BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

PROJECT NO. AGN23001  
 FILENAME AGN23001-L51  
 CHECKED BY JMH  
 DRAWN BY SMO  
 SCALE 1"=40'  
 DATE 12.02.2024

**SHEET**

**LANDSCAPE PLAN AREA 'B'**

# L5.02

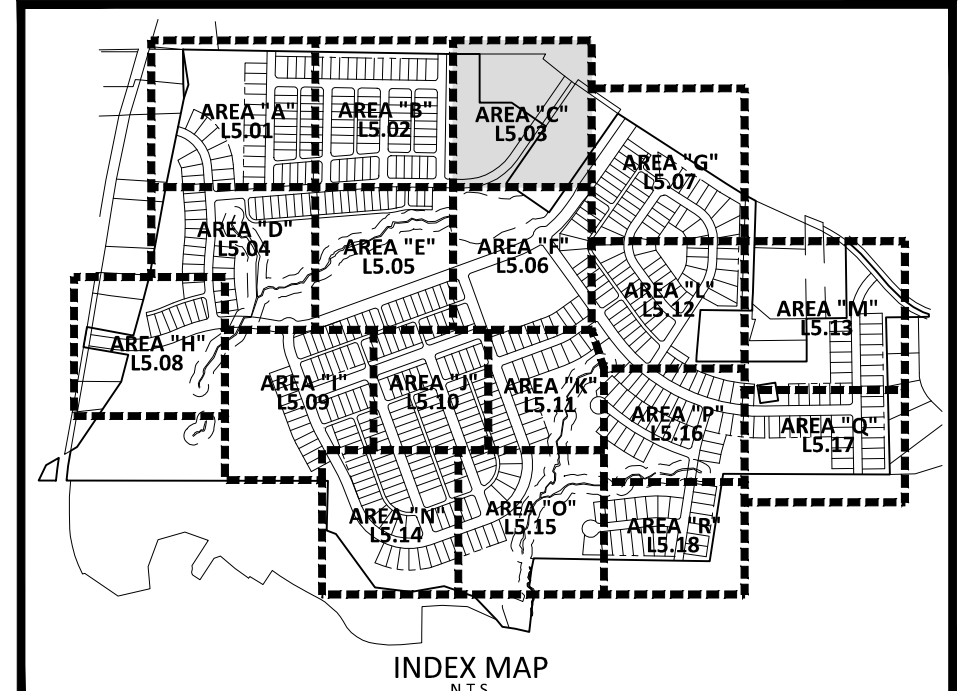
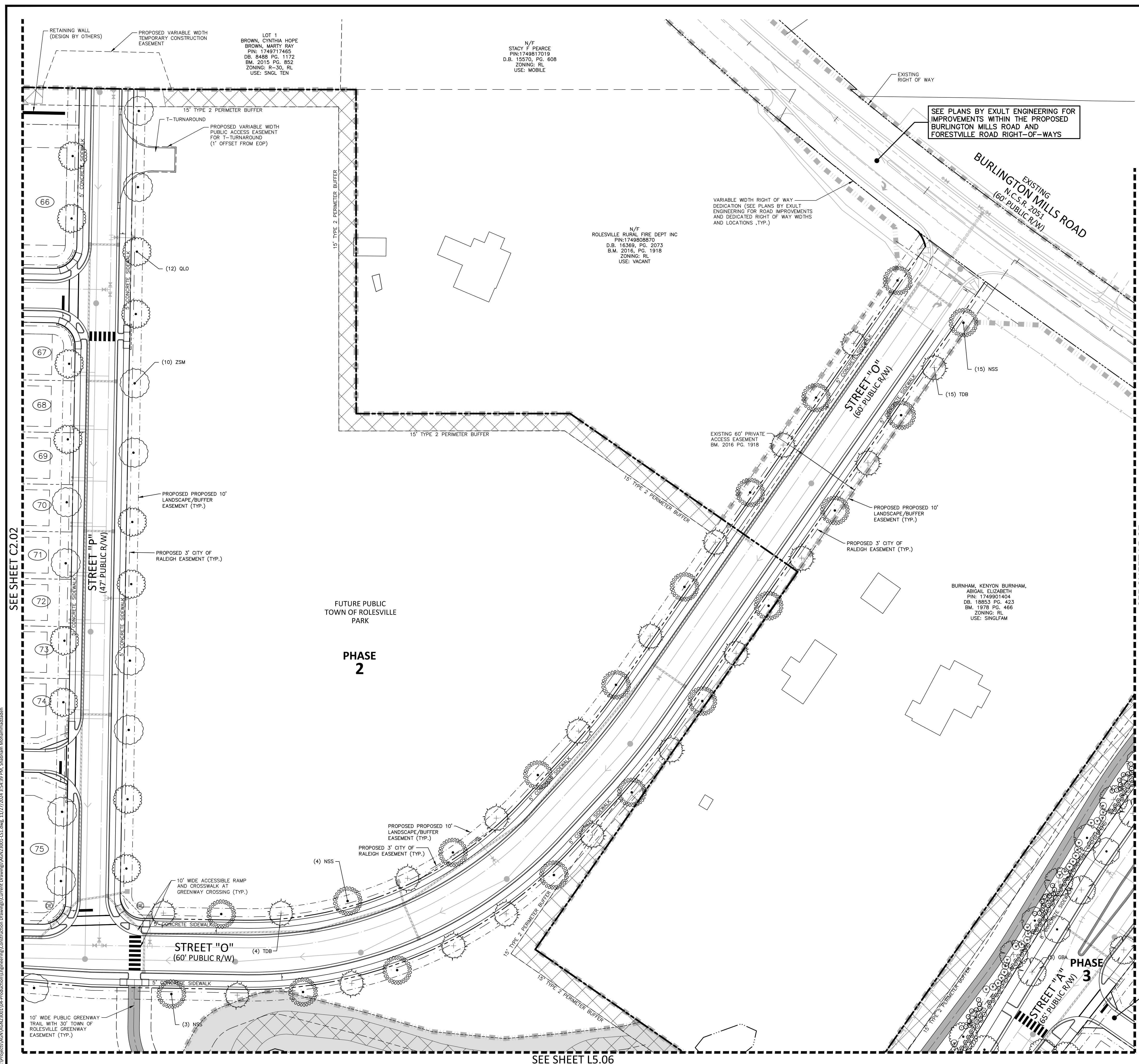
SEE SHEET C2.01

SEE SHEET L5.03

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SEE SHEET L5.05





- SITE LEGEND**
- SIGNAGE
  - SITE LIGHTING
  - LIGHT POLE
  - TRAFFIC DIRECTIONAL ARROW
  - ACCESSIBLE PARKING STALL
  - VAN ACCESSIBLE PARKING STALL
  - PARKING SPACE COUNT
  - ACCESSIBLE RAMPS
  - PHASE LINE
  - PROPERTY LINE
  - RIGHT-OF-WAY LINE
  - LOT LINE
  - EASEMENT LINE
  - CENTERLINE
  - 10' LANDSCAPE BUFFER/EASEMENT
  - 3' CITY OF RALEIGH EASEMENT
  - 5' ACCESS, MAINTENANCE AND UTILITY EASEMENT (ALLEYS)
- KEY LEGEND**
- PRIVATE STORM DRAINAGE EASEMENT
  - PUBLIC STORM DRAINAGE EASEMENT

**PLANT SCHEDULE AREA 'C'**

| SYMBOL                  | CODE | BOTANICAL / COMMON NAME  |
|-------------------------|------|--|
| <b>CANOPY TREES</b>     |      |  |
| ARS                     | ARS  | Acer rubrum 'Summer Red'<br>Summer Red Red Maple                       |
| GBA                     | GBA  | Ginkgo biloba 'Autumn Gold'™<br>Maidenhair Tree                        |
| NSS                     | NSS  | Nyssa sylvatica<br>Sour Gum  |
| QLO                     | QLO  | Quercus lyrata<br>Overcup Oak  |
| QPP                     | QPP  | Quercus palustris<br>Pin Oak   |
| TDB                     | TDB  | Taxodium distichum<br>Bald Cypress                                     |
| ZSM                     | ZSM  | Zelkova serrata 'Myrimar'<br>Myrimar Zelkova                           |
| <b>UNDERSTORY TREES</b> |      |  |
| CCP                     | CCP  | Cercis canadensis 'Forest Pansy'™<br>Forest Pansy Redbud               |
| <b>EVERGREEN SHRUBS</b> |      |  |
| IVND                    | IVND | Ilex vomitoria 'Nano'<br>Dwarf Yaupon                                  |
| IPFS                    | IPFS | Illicium parviflorum 'Florida Sunshine'<br>Florida Sunshine Anise Tree |
| MMWS                    | MMWS | Mahonia x media 'Winter Sun'<br>Mahonia hybrid                         |
| OFSS                    | OFSS | Osmanthus fragrans<br>Sweet Olive                                      |
| VTAR                    | VTAR | Viburnum tinus<br>Arrowwood  |



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PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
|-----|------|
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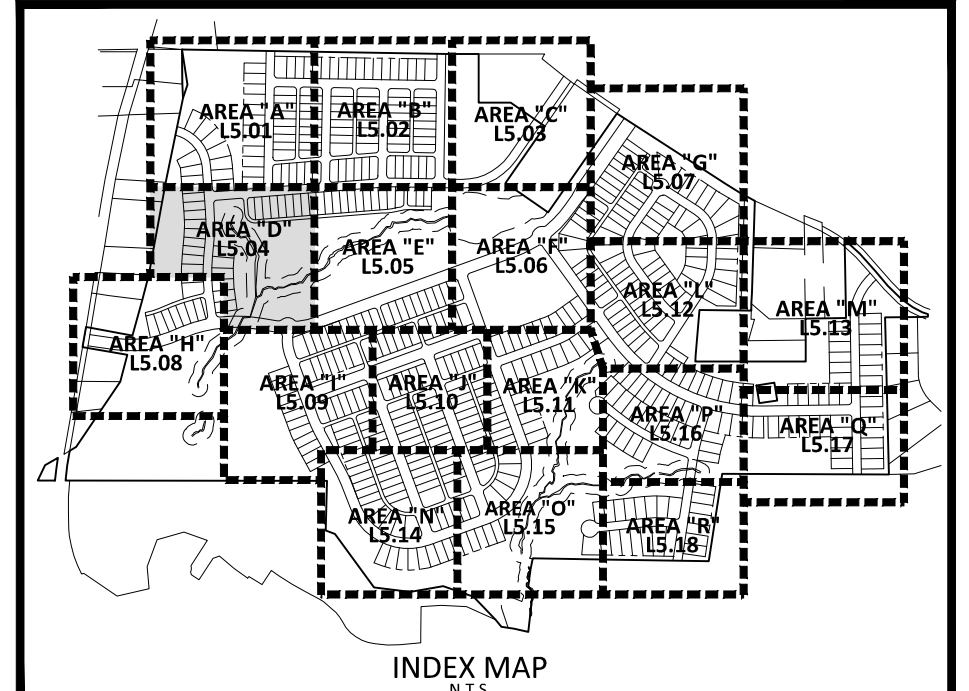
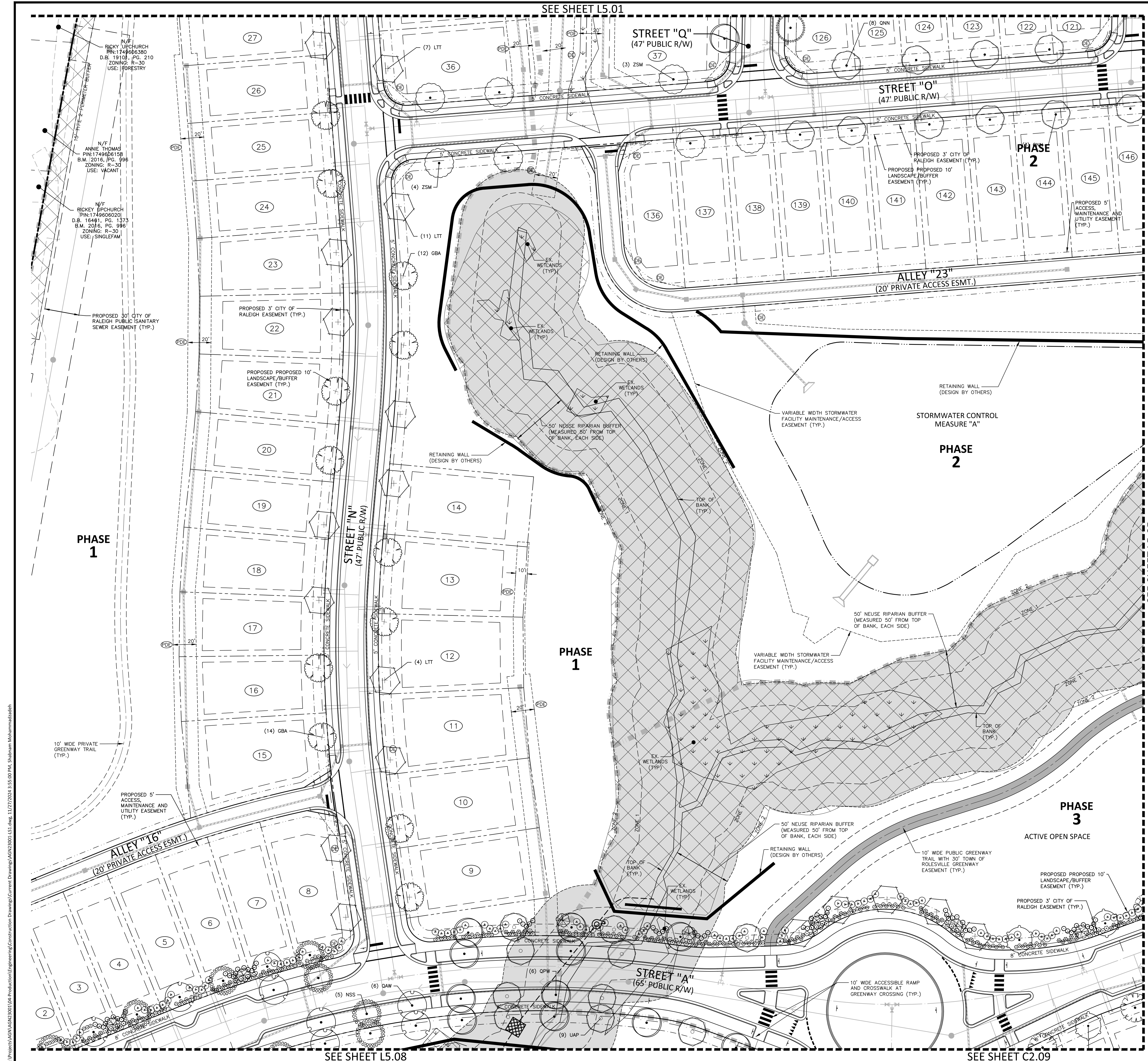
**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AGN23001-L51  
CHECKED BY JMH  
DRAWN BY SMO  
SCALE 1"=40'  
DATE 12.02.2024

**SHEET**

LANDSCAPE PLAN  
AREA "C"  
**L5.03**





**SITE LEGEND**

- Signage
- Site Lighting
- Light Pole
- Traffic Directional Arrow
- Accessible Parking Stall
- Van Accessible Parking Stall
- Parking Space Count
- Accessible Ramps

**KEY LEGEND**

- Phase Line
- Property Line
- Right-of-Way Line
- Lot Line
- Easement Line
- Centerline
- 10' Landscape Buffer/Easement
- 3' City of Raleigh Easement
- 5' Access, Maintenance and Utility Easement (Alleys)
- Private Storm Drainage Easement
- Public Storm Drainage Easement

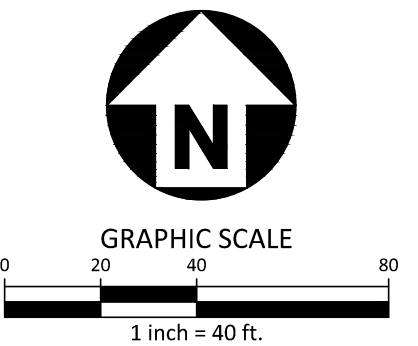
**PLANT SCHEDULE AREA 'D'**

| SYMBOL                  | CODE | BOTANICAL / COMMON NAME  |
|-------------------------|------|--|
| <b>CANOPY TREES</b>     |      |  |
| (Symbol)                | ASL  | Acer saccharum 'Legacy'<br>Legacy Sugar Maple                          |
| (Symbol)                | CIP  | Carya illinoensis<br>Pecan   |
| (Symbol)                | CBS  | Catalpa bignonioides<br>Southern Catalpa                               |
| (Symbol)                | GBA  | Ginkgo biloba 'Autumn Gold'™<br>Maidenhair Tree                        |
| (Symbol)                | LTT  | Liriodendron tulipifera<br>Tulip Tree                                  |
| (Symbol)                | NSS  | Nyssa sylvatica<br>Sour Gum  |
| (Symbol)                | QAW  | Quercus alba<br>White Oak  |
| (Symbol)                | QNN  | Quercus nuttallii<br>Nuttall Oak                                       |
| (Symbol)                | QPW  | Quercus phellos<br>Willow Oak  |
| (Symbol)                | UAP  | Ulmus americana 'Princeton'<br>American Elm                            |
| (Symbol)                | ZSM  | Zelkova serrata 'Myrimar'<br>Myrimar Zelkova                           |
| <b>UNDERSTORY TREES</b> |      |  |
| (Symbol)                | CCP  | Cercis canadensis 'Forest Pansy'™<br>Forest Pansy Redbud               |
| <b>EVERGREEN SHRUBS</b> |      |  |
| (Symbol)                | IVND | Ilex vomitoria 'Nana'<br>Dwarf Yaupon                                  |
| (Symbol)                | IPFS | Illicium parviflorum 'Florida Sunshine'<br>Florida Sunshine Anise Tree |
| (Symbol)                | MMWS | Mahonia x media 'Winter Sun'<br>Mahonia hybrid                         |
| (Symbol)                | OFSS | Osmarthus fragrans<br>Sweet Olive                                      |
| (Symbol)                | VTAR | Viburnum tinus<br>Arrowwood  |

SEE SHEET L5.05

SEE SHEET L5.08

SEE SHEET C2.09



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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**AGNC**  
BROKERAGE | CONSULTING | PLANNING

**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

**REVISIONS**

| NO. | DATE |
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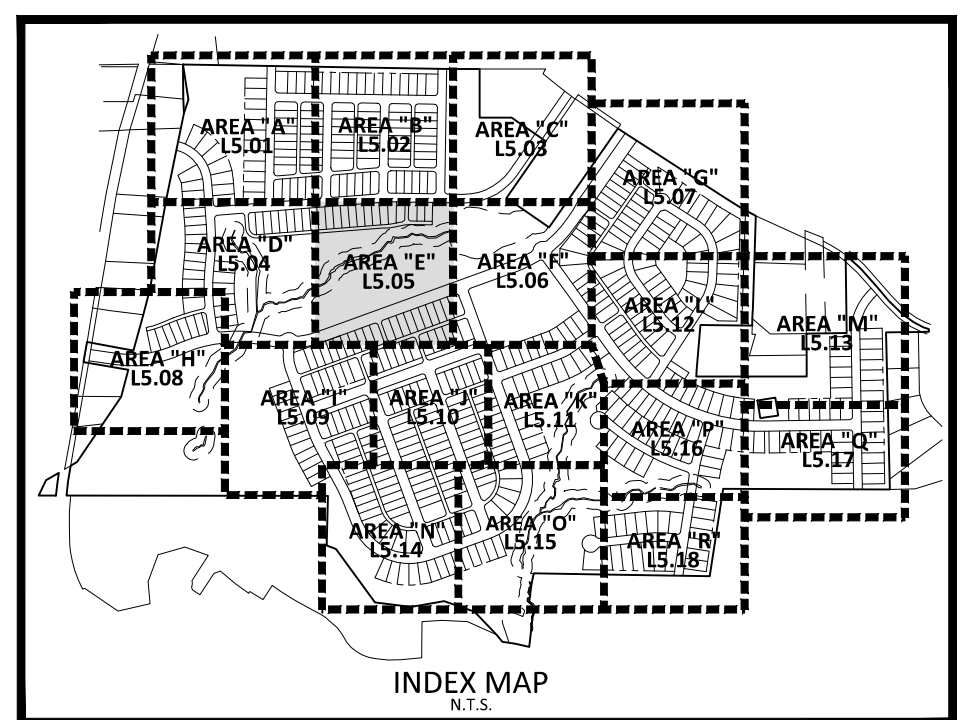
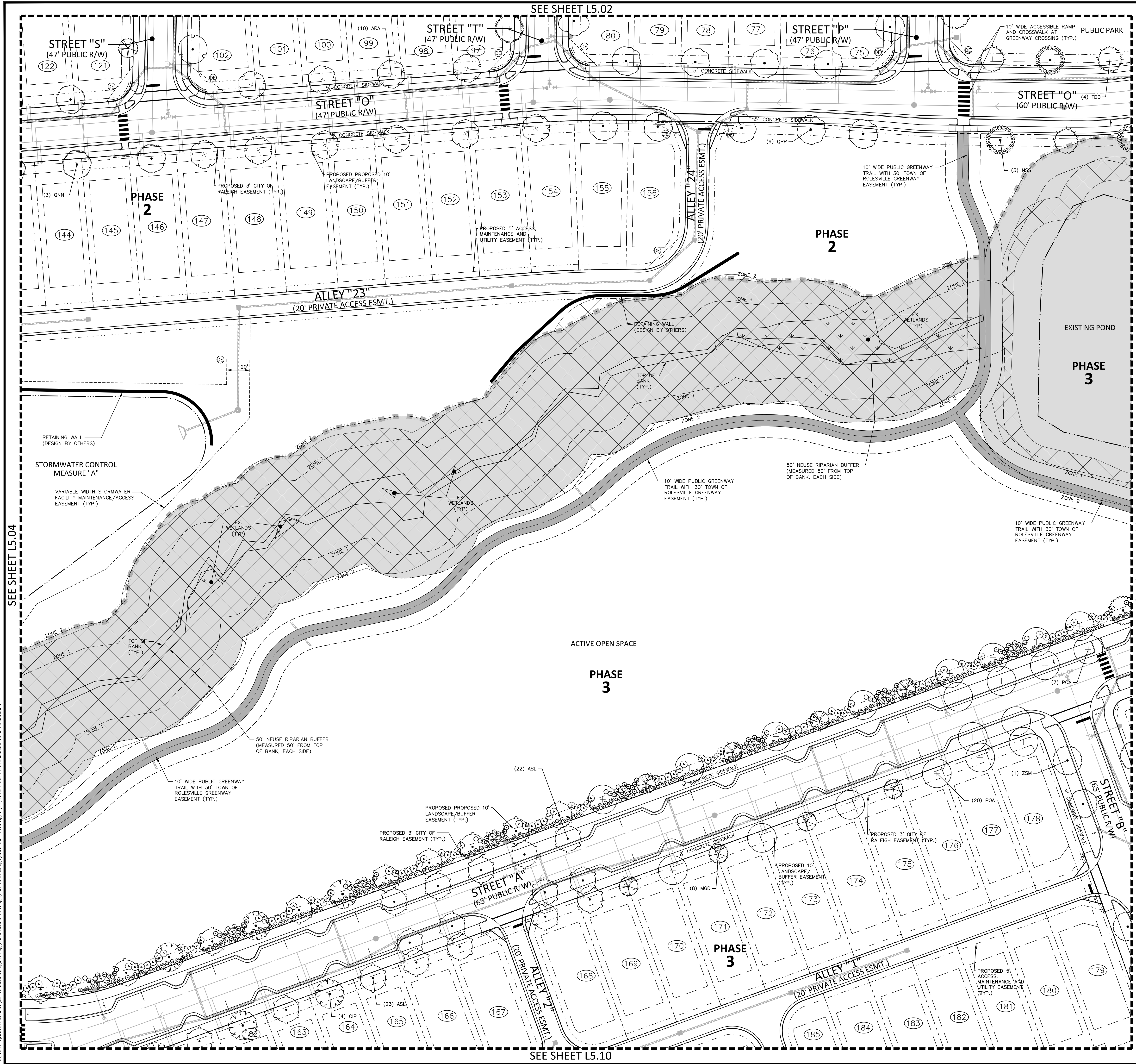
**PLAN INFORMATION**

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| PROJECT NO. | AGN23001     |
| FILENAME    | AGN23001-L51 |
| CHECKED BY  | JMH          |
| DRAWN BY    | SMO          |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**LANDSCAPE PLAN**  
**AREA "D"**  
**L5.04**

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**SITE LEGEND**

- ↓ SIGNAGE
- ⚡ SITE LIGHTING
- ⚡ LIGHT POLE
- TRAFFIC DIRECTIONAL ARROW
- ⊞ ACCESSIBLE PARKING STALL
- ⊞ VAN ACCESSIBLE PARKING STALL
- ⊞ PARKING SPACE COUNT
- ▬ ACCESSIBLE RAMPS

**KEY LEGEND**

- ▬ PHASE LINE
- ▬ PROPERTY LINE
- ▬ RIGHT-OF-WAY LINE
- ▬ LOT LINE
- ▬ EASEMENT LINE
- ▬ CENTERLINE
- ▬ 10' LANDSCAPE BUFFER/EASEMENT
- ▬ 3' CITY OF RALEIGH EASEMENT
- ▬ 5' ACCESS, MAINTENANCE AND UTILITY EASEMENT (ALLEYS)
- ⊞ PRIVATE STORM DRAINAGE EASEMENT
- ⊞ PUBLIC STORM DRAINAGE EASEMENT

**PLANT SCHEDULE AREA 'E'**

| SYMBOL                  | CODE | BOTANICAL / COMMON NAME   |
|-------------------------|------|---|
| <b>CANOPY TREES</b>     |      |   |
| +                       | ARA  | Acer rubrum 'Autumn Blaze' Autumn Blaze Red Maple                   |
| •                       | ASL  | Acer saccharum 'Legacy' Legacy Sugar Maple                          |
| ⊙                       | CIP  | Carya illinoensis Pecan   |
| ⊙                       | MGD  | Magnolia grandiflora 'D.D. Blanchard' TM Southern Magnolia          |
| ⊙                       | NSS  | Nyssa sylvatica Sour Gum  |
| +                       | POA  | Platanus occidentalis American Sycamore                             |
| •                       | QAW  | Quercus alba White Oak  |
| •                       | QLO  | Quercus lyrata Overcup Oak  |
| •                       | QMB  | Quercus marilandica Blackjack Oak                                   |
| •                       | QNN  | Quercus nuttallii Nuttall Oak                                       |
| •                       | QPP  | Quercus palustris Pin Oak   |
| •                       | QVS  | Quercus virginiana Southern Live Oak                                |
| +                       | TDB  | Taxodium distichum Bald Cypress                                     |
| •                       | ZSM  | Zelkova serrata 'Myrimar' Myrimar Zelkova                           |
| <b>UNDERSTORY TREES</b> |      |   |
| ⊞                       | CCP  | Cercis canadensis 'Forest Pansy' TM Forest Pansy Redbud             |
| <b>EVERGREEN SHRUBS</b> |      |   |
| ⊞                       | IVND | Ilex vomitoria 'Nana' Dwarf Yaupon                                  |
| ⊞                       | IPFS | Illicium parviflorum 'Florida Sunshine' Florida Sunshine Anise Tree |
| ⊞                       | MMWS | Mohonia x media 'Winter Sun' Mohonia hybrid                         |
| ⊞                       | OFSD | Osmundus fragrans Sweet Olive                                       |
| ⊞                       | VTAR | Viburnum tinus Arrowwood  |

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 www.mcadamsco.com

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 7208 FALLS OF NEUSE RD, SUITE 101  
 RALEIGH, NORTH CAROLINA 27615  
 CONTACT: JACOB ANDERSON  
 PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

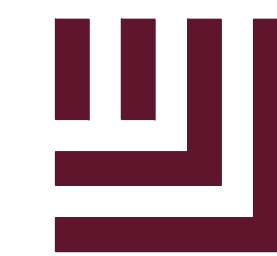
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|-------------|--------------|
| PROJECT NO. | AGN23001     |
| FILENAME    | AGN23001-L51 |
| CHECKED BY  | JMH          |
| DRAWN BY    | SMO          |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**LANDSCAPE PLAN**  
**AREA "E"**  
**L5.05**









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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

NO. DATE

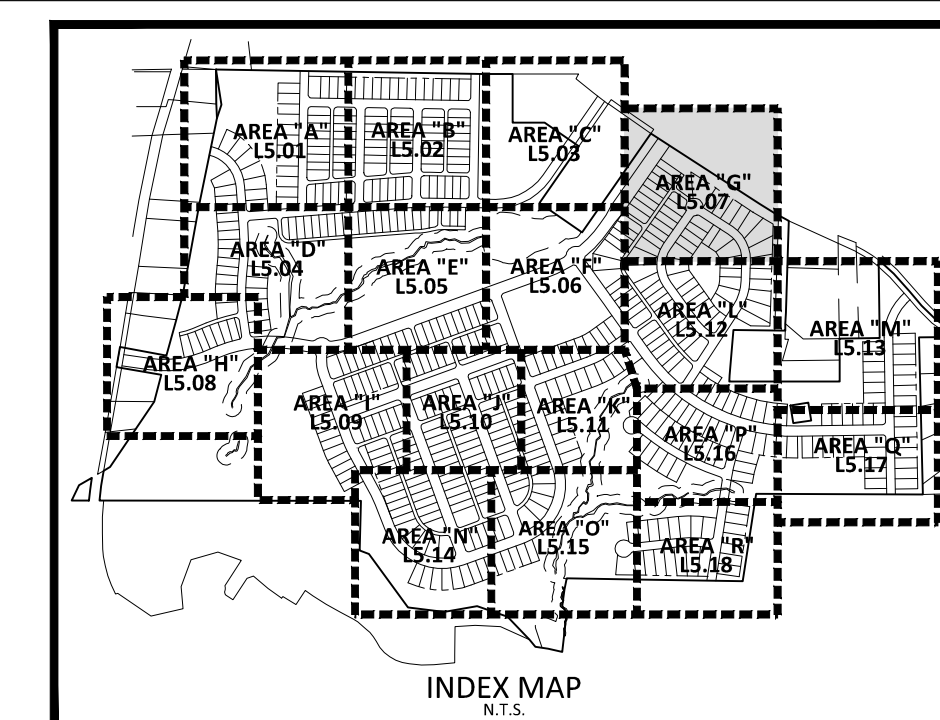
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PROJECT NO. AGN23001  
FILENAME AGN23001-LS1  
CHECKED BY JMH  
DRAWN BY SMO  
SCALE 1"=40'  
DATE 12.02.2024

**SHEET**

LANDSCAPE PLAN  
AREA "G"

**L5.07**



**SITE LEGEND**

- SIGNAGE
- SITE LIGHTING
- LIGHT POLE
- TRAFFIC DIRECTIONAL ARROW
- ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PARKING SPACE COUNT
- ACCESSIBLE RAMPS
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- 10' LANDSCAPE BUFFER/EASEMENT
- 3' CITY OF RALEIGH EASEMENT
- 5' ACCESS, MAINTENANCE AND UTILITY EASEMENT (ALLEYS)

**KEY LEGEND**

- PRIVATE STORM DRAINAGE EASEMENT
- PUBLIC STORM DRAINAGE EASEMENT

**PLANT SCHEDULE AREA "G"**

SYMBOL CODE BOTANICAL / COMMON NAME

**CANOPY TREES**

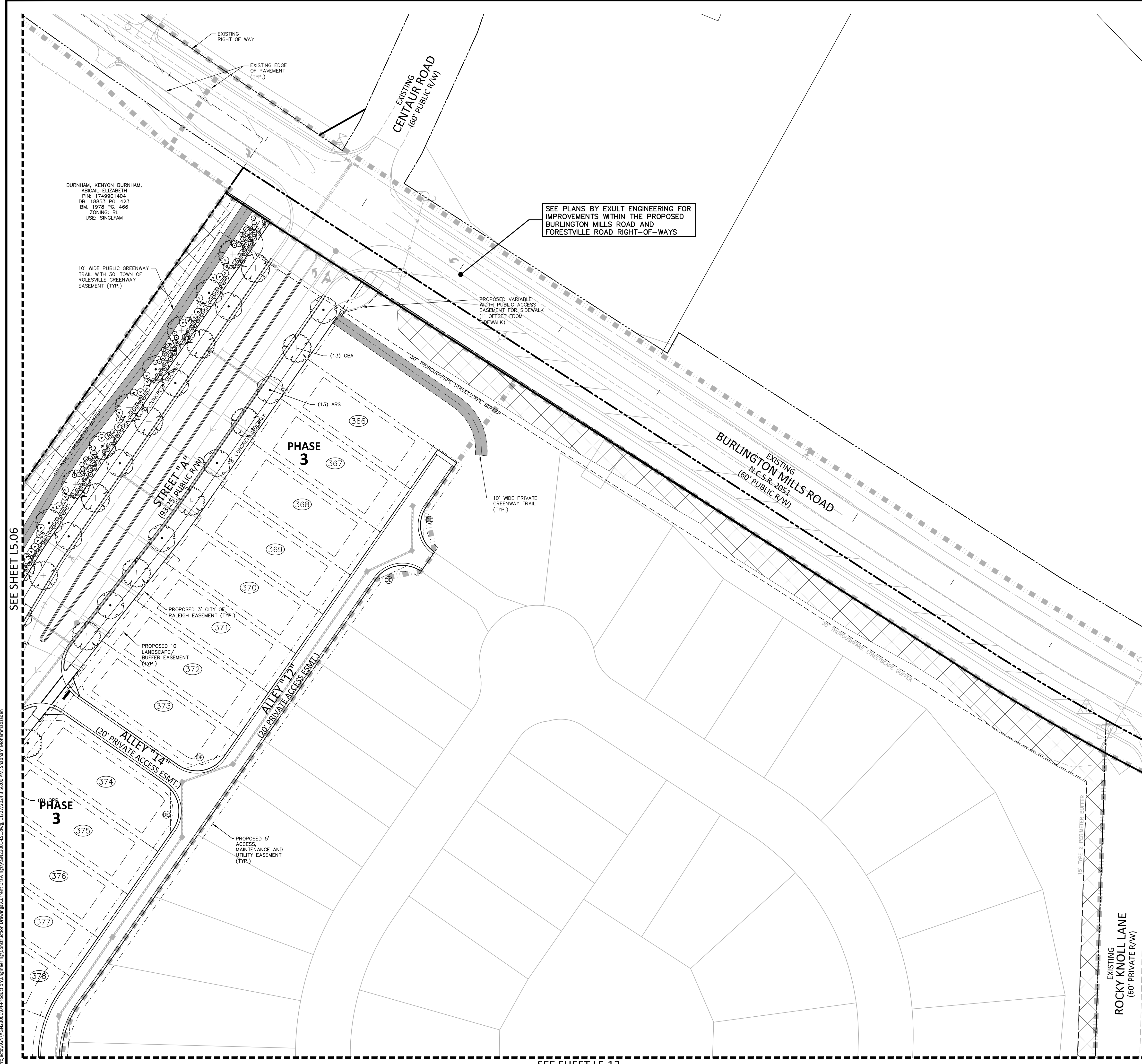
- ARS Acer rubrum 'Summer Red' Summer Red Red Maple
- GBA Ginkgo biloba 'Autumn Gold' TM Maidenhair Tree
- QLO Quercus lyrata Overcup Oak

**UNDERSTORY TREES**

- CCP Cercis canadensis 'Forest Pansy' TM Forest Pansy Redbud

**EVERGREEN SHRUBS**

- IVND Ilex vomitoria 'Nana' Dwarf Yaupon
- IPFS Illicium parviflorum 'Florida Sunshine' Florida Sunshine Anise Tree
- MMWS Mahonia hybrid Mahonia hybrid
- OFSO Osmanthus fragrans Sweet Olive
- VTAR Viburnum tinus Arrowwood



SEE PLANS BY EXULT ENGINEERING FOR IMPROVEMENTS WITHIN THE PROPOSED BURLINGTON MILLS ROAD AND FORESTVILLE ROAD RIGHT-OF-WAYS

SEE SHEET L5.12

SEE SHEET L5.06

X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-LS1.dwg, 11/27/2024 3:56:00 PM, Shabnam Mohammadsadeh

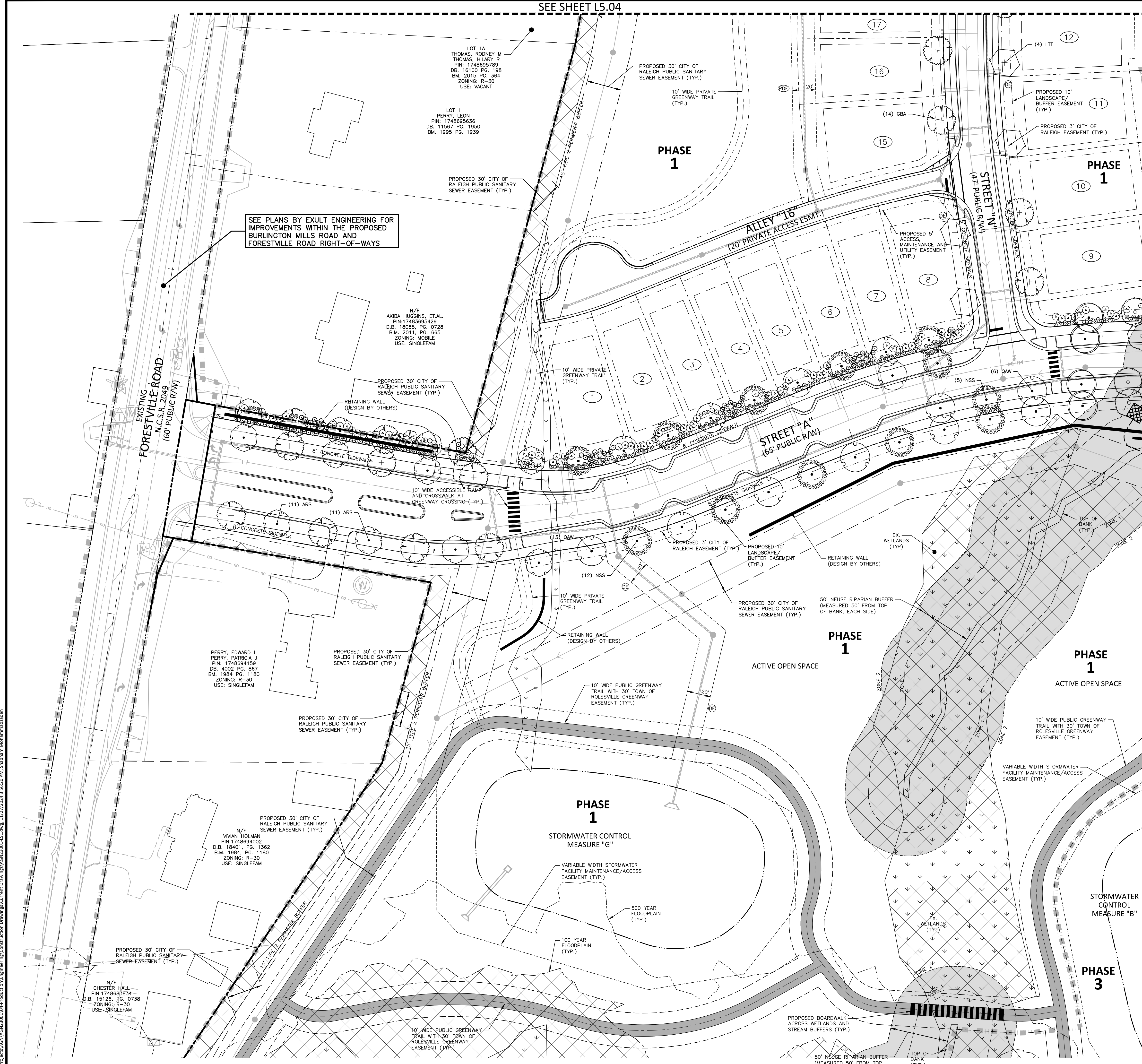


GRAPHIC SCALE  
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1 inch = 40 ft.

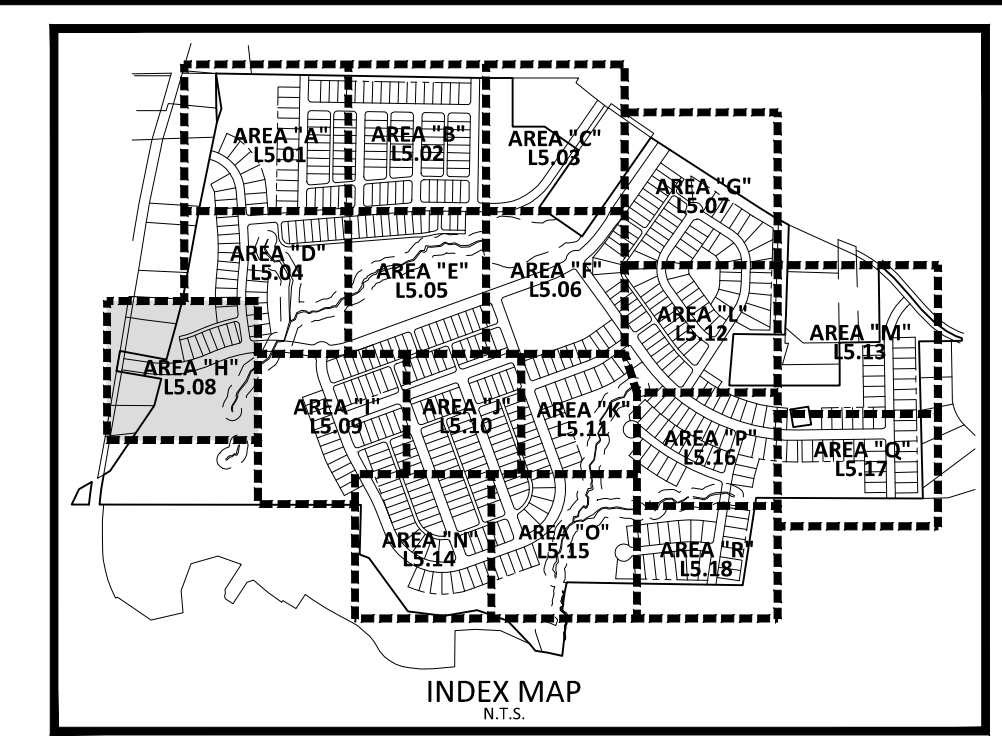
FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



SEE SHEET L5.04



SEE PLANS BY EXULT ENGINEERING FOR IMPROVEMENTS WITHIN THE PROPOSED BURLINGTON MILLS ROAD AND FORESTVILLE ROAD RIGHT-OF-WAYS



- SITE LEGEND**
- ☐ SIGNAGE
  - ☐ SITE LIGHTING
  - ☐ LIGHT POLE
  - ☐ TRAFFIC DIRECTIONAL ARROW
  - ☐ ACCESSIBLE PARKING STALL
  - ☐ VAN ACCESSIBLE PARKING STALL
  - ☐ PARKING SPACE COUNT
  - ☐ ACCESSIBLE RAMPS
  - ☐ PHASE LINE
  - ☐ PROPERTY LINE
  - ☐ RIGHT-OF-WAY LINE
  - ☐ LOT LINE
  - ☐ EASEMENT LINE
  - ☐ CENTERLINE
  - ☐ 10' LANDSCAPE BUFFER/EASEMENT
  - ☐ 3' CITY OF RALEIGH EASEMENT
  - ☐ 5' ACCESS, MAINTENANCE AND UTILITY EASEMENT (ALLEYS)
- KEY LEGEND**
- ☐ PRIVATE STORM DRAINAGE EASEMENT
  - ☐ PUBLIC STORM DRAINAGE EASEMENT

**PLANT SCHEDULE AREA 'H'**

| SYMBOL                  | CODE | BOTANICAL / COMMON NAME  |
|-------------------------|------|--|
| <b>CANOPY TREES</b>     |      |  |
| ☐                       | ARS  | Acer rubrum 'Summer Red'<br>Summer Red Red Maple                       |
| ☐                       | GBA  | Ginkgo biloba 'Autumn Gold' TM<br>Maidenhair Tree                      |
| ☐                       | LTT  | Liriodendron tulipifera<br>Tulip Tree                                  |
| ☐                       | NSS  | Nyssa sylvatica<br>Sour Gum  |
| ☐                       | QAW  | Quercus alba<br>White Oak  |
| ☐                       | QPW  | Quercus phellos<br>Willow Oak  |
| ☐                       | UAP  | Ulmus americana 'Princeton'<br>American Elm                            |
| <b>UNDERSTORY TREES</b> |      |  |
| ☐                       | CCP  | Cercia canadensis 'Forest Pansy' TM<br>Forest Pansy Redbud             |
| <b>EVERGREEN SHRUBS</b> |      |  |
| ☐                       | IVND | Ilex vomitoria 'Nana'<br>Dwarf Yaupon                                  |
| ☐                       | IPFS | Illicium parviflorum 'Florida Sunshine'<br>Florida Sunshine Anise Tree |
| ☐                       | MMWS | Mahonia x media 'Winter Sun'<br>Mahonia hybrid                         |
| ☐                       | OFSO | Osmanthus fragrans<br>Sweet Olive                                      |
| ☐                       | VTAR | Viburnum tinus<br>Arrowwood  |

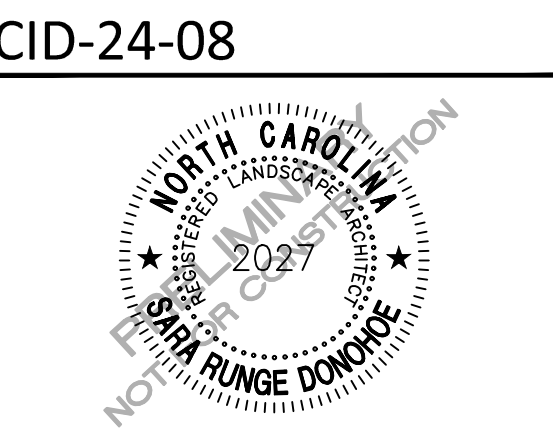
SEE SHEET L5.09

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA



CID-24-08

**REVISIONS**

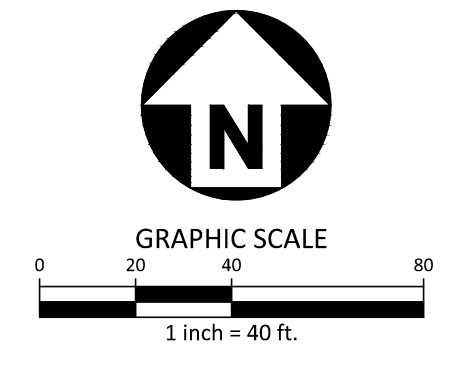
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**PLAN INFORMATION**

PROJECT NO. AGN23001  
FILENAME AGN23001-L51  
CHECKED BY JMH  
DRAWN BY SMO  
SCALE 1"=40'  
DATE 12.02.2024

**SHEET**

LANDSCAPE PLAN  
AREA "H"  
**L5.08**

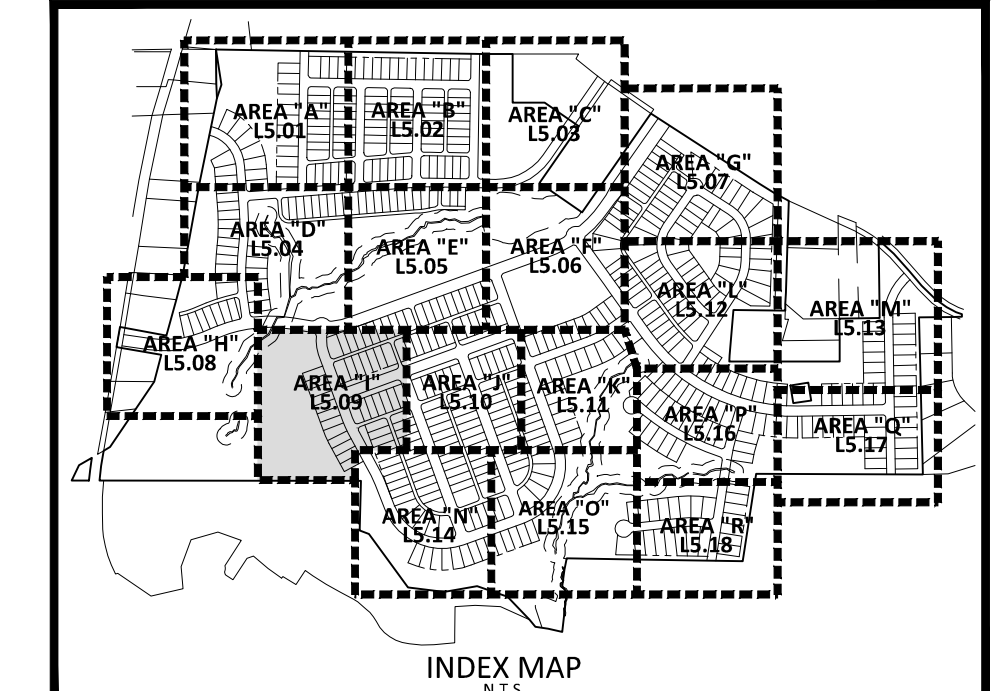
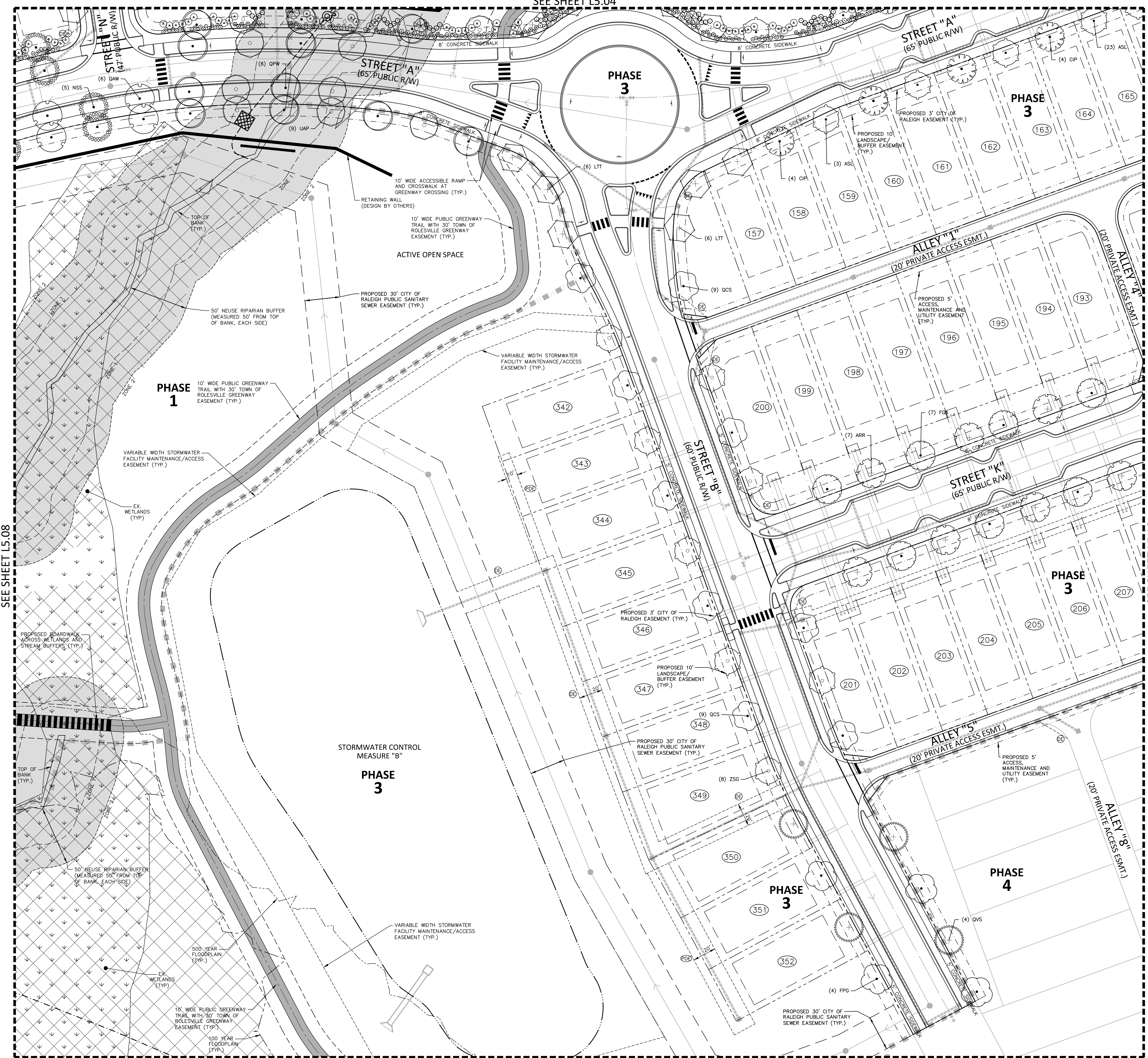


FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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SEE SHEET L5.04



**SITE LEGEND**

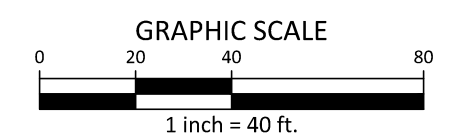
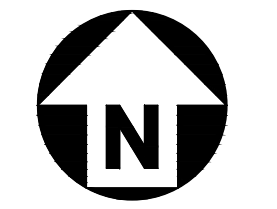
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- Site Lighting
- Light Pole
- Traffic Directional Arrow
- Accessible Parking Stall
- Van Accessible Parking Stall
- Parking Space Count
- Accessible Ramps
- Phase Line
- Property Line
- Right-of-Way Line
- Lot Line
- Easement Line
- Centerline
- 10' Landscape Buffer/Easement
- 3' City of Raleigh Easement
- 5' Access, Maintenance and Utility Easement (Alleys)

**KEY LEGEND**

- Private Storm Drainage Easement
- Public Storm Drainage Easement

**PLANT SCHEDULE AREA "I"**

| SYMBOL                  | CODE | BOTANICAL / COMMON NAME  |
|-------------------------|------|--|
| <b>CANOPY TREES</b>     |      |  |
| (Symbol)                | ARR  | Acer rubrum 'Red Sunset'<br>Red Sunset Maple                           |
| (Symbol)                | ASL  | Acer saccharum 'Legacy'<br>Legacy Sugar Maple                          |
| (Symbol)                | CIP  | Carya illinoensis<br>Pecan   |
| (Symbol)                | FGA  | Fagus grandifolia<br>American Beech                                    |
| (Symbol)                | FPG  | Fraxinus pennsylvanica<br>Green Ash                                    |
| (Symbol)                | LTT  | Liriodendron tulipifera<br>Tulip Tree                                  |
| (Symbol)                | NSS  | Nyssa sylvatica<br>Sour Gum  |
| (Symbol)                | QAW  | Quercus alba<br>White Oak  |
| (Symbol)                | QCS  | Quercus coccinea<br>Scarlet Oak  |
| (Symbol)                | QPW  | Quercus phellos<br>Willow Oak  |
| (Symbol)                | QVS  | Quercus virginiana<br>Southern Live Oak                                |
| (Symbol)                | UAP  | Ulmus americana 'Princeton'<br>American Elm                            |
| (Symbol)                | ZSG  | Zelkova serrata 'Green Vase'<br>Sawleaf Zelkova                        |
| <b>UNDERSTORY TREES</b> |      |  |
| (Symbol)                | CCP  | Cercis canadensis 'Forest Pansy'™<br>Forest Pansy Redbud               |
| <b>EVERGREEN SHRUBS</b> |      |  |
| (Symbol)                | HWND | Ilex vomitoria 'Nana'<br>Dwarf Yaupon                                  |
| (Symbol)                | IPFS | Illicium parviflorum 'Florida Sunshine'<br>Florida Sunshine Anise Tree |
| (Symbol)                | MMWS | Mahonia x media 'Winter Sun'<br>Mahonia hybrid                         |
| (Symbol)                | OFSO | Osmanthus fragrans<br>Sweet Olive                                      |
| (Symbol)                | VTAR | Viburnum tinus<br>Arrowwood  |



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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

|             |              |
|-------------|--------------|
| PROJECT NO. | AGN23001     |
| FILENAME    | AGN23001-L51 |
| CHECKED BY  | JMH          |
| DRAWN BY    | SMO          |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**LANDSCAPE PLAN**  
**AREA "I"**  
**L5.09**

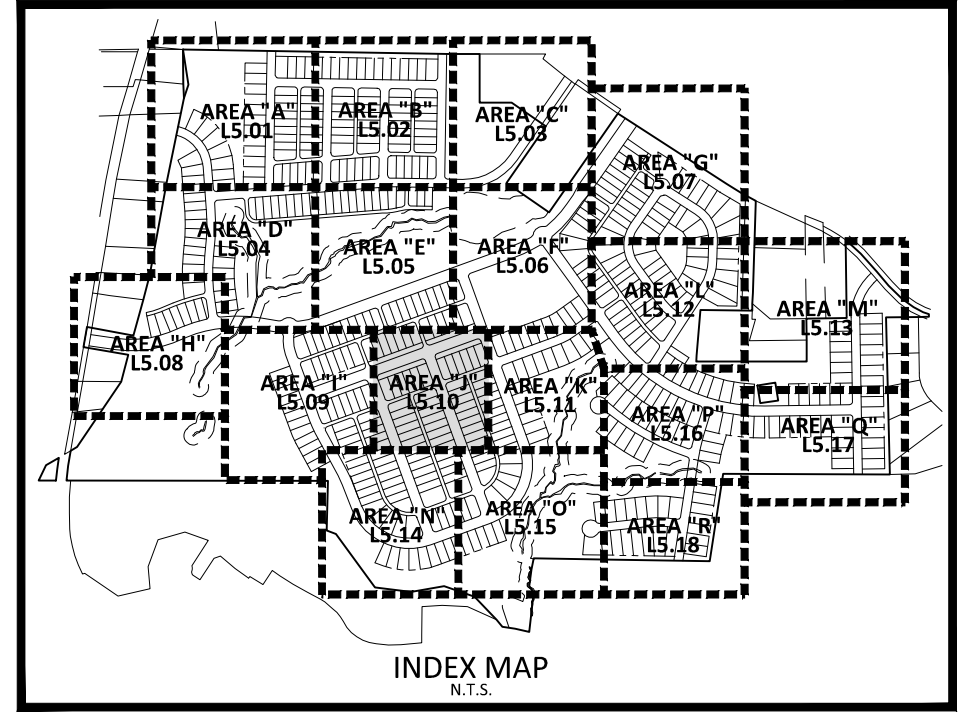
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SEE SHEET L5.08

SEE SHEET L5.10

SEE SHEET L5.14





**SITE LEGEND**

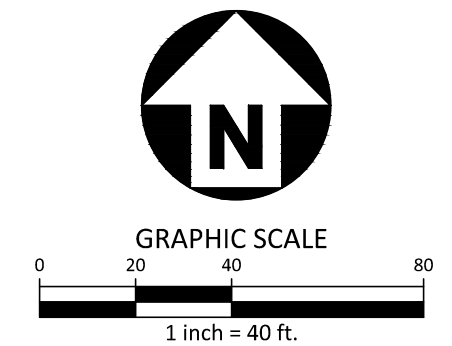
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- SITE LIGHTING
- LIGHT POLE
- TRAFFIC DIRECTIONAL ARROW
- ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- PARKING SPACE COUNT
- ACCESSIBLE RAMP
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- 10' LANDSCAPE BUFFER/EASEMENT
- 3' CITY OF RALEIGH EASEMENT
- 5' ACCESS, MAINTENANCE AND UTILITY EASEMENT (ALLEYS)

**KEY LEGEND**

- PRIVATE STORM DRAINAGE EASEMENT
- PUBLIC STORM DRAINAGE EASEMENT

**PLANT SCHEDULE AREA 'J'**

| SYMBOL              | CODE | BOTANICAL / COMMON NAME                       |
|---------------------|------|---|
| <b>CANOPY TREES</b> |      |   |
|                     | ARR  | Acer rubrum 'Red Sunset'<br>Red Sunset Maple  |
|                     | ASL  | Acer saccharum 'Legacy'<br>Legacy Sugar Maple |
|                     | CIP  | Carya illinoensis<br>Pecan                    |
|                     | CBS  | Catalpa bignoniodes<br>Southern Catalpa       |
|                     | FGA  | Fagus grandifolia<br>American Beech           |
|                     | NSS  | Nyssa sylvatica<br>Sour Gum                   |
|                     | QAW  | Quercus alba<br>White Oak                     |
|                     | QNN  | Quercus nuttallii<br>Nuttall Oak              |
|                     | QPW  | Quercus phellos<br>Willow Oak                 |
|                     | UAP  | Ulmus americana 'Princeton'<br>American Elm   |
|                     | UPB  | Ulmus parvifolia 'Bosque'<br>Bosque Elm       |
|                     | ZSM  | Zelkova serrata 'Myrimar'<br>Myrimar Zelkova  |



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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

|             |              |
|-------------|--------------|
| PROJECT NO. | AGN23001     |
| FILENAME    | AGN23001-L51 |
| CHECKED BY  | JMH          |
| DRAWN BY    | SMO          |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

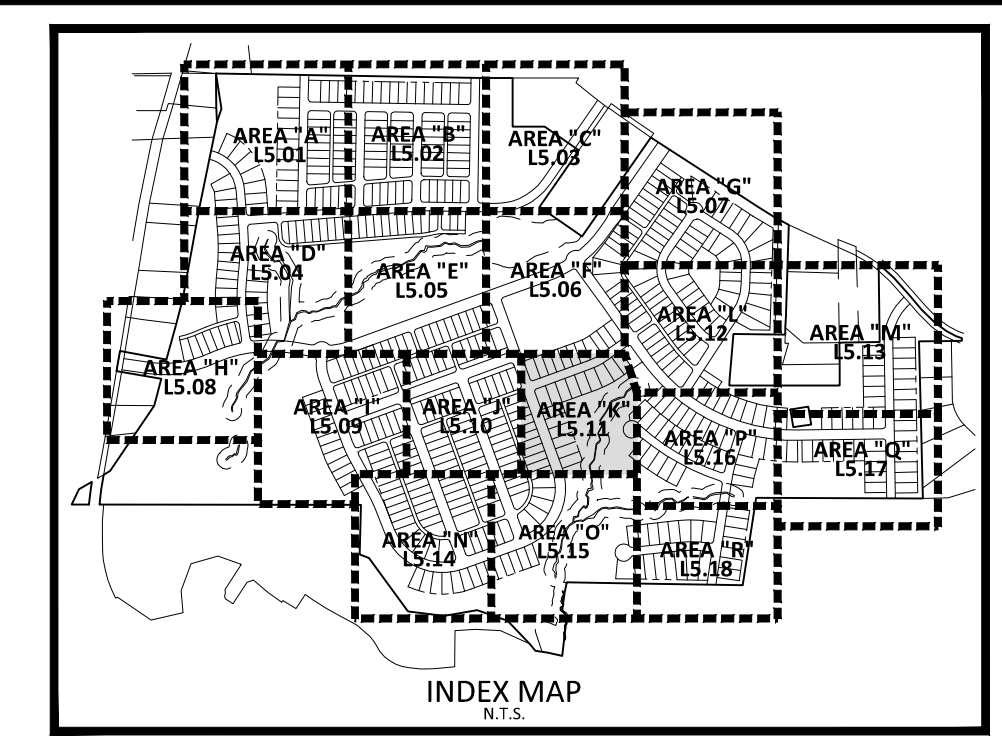
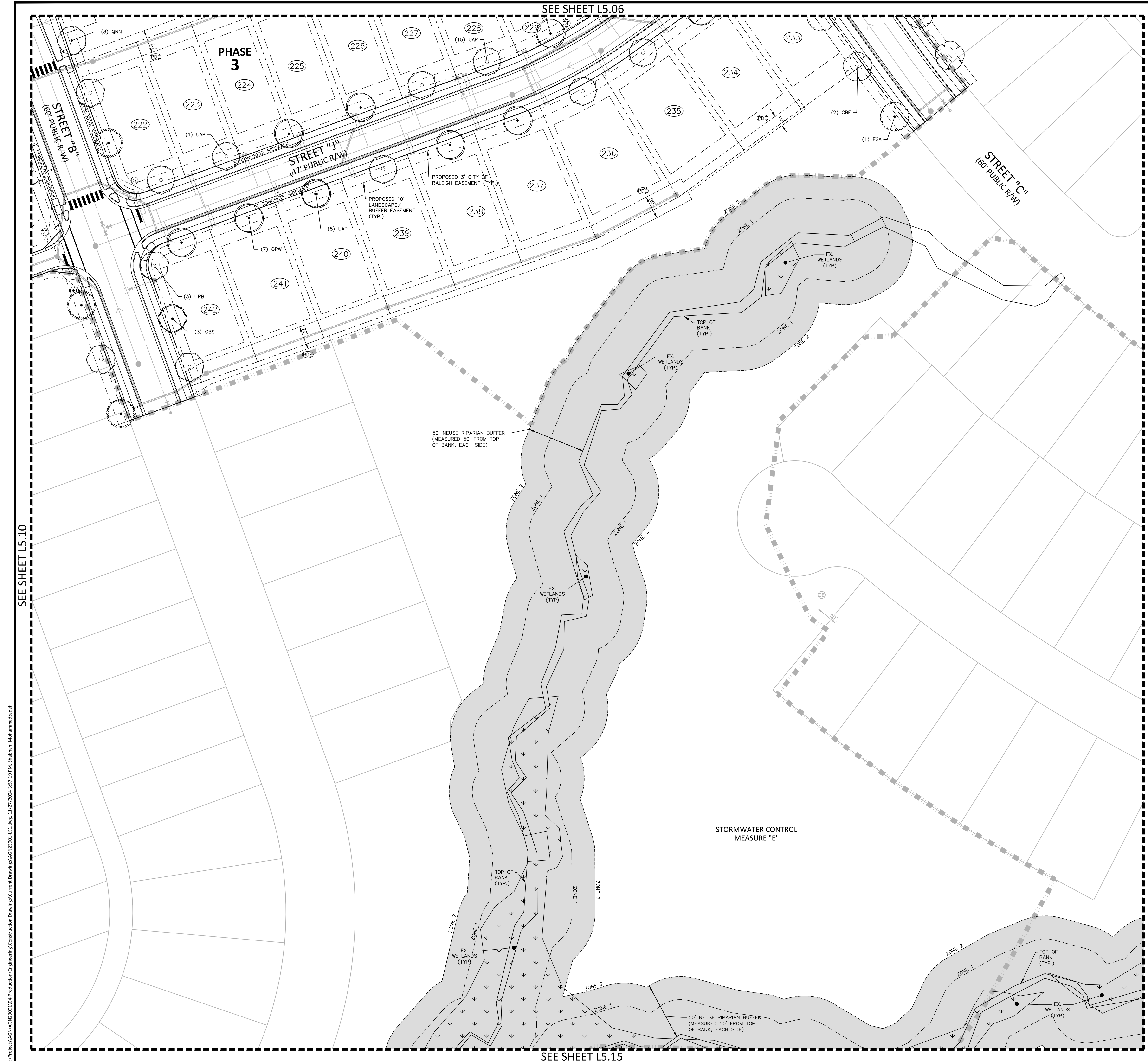
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LANDSCAPE PLAN  
AREA 'J'  
**L5.10**

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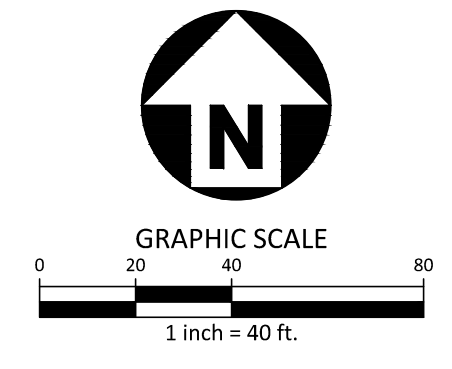




- SITE LEGEND**
- SIGNAGE
  - SITE LIGHTING
  - ★ LIGHT POLE
  - TRAFFIC DIRECTIONAL ARROW
  - ACCESSIBLE PARKING STALL
  - VAN ACCESSIBLE PARKING STALL
  - PARKING SPACE COUNT
  - ▭ ACCESSIBLE RAMPS
  - ▬ PHASE LINE
  - ▬ PROPERTY LINE
  - ▬ RIGHT-OF-WAY LINE
  - ▬ LOT LINE
  - ▬ EASEMENT LINE
  - ▬ CENTERLINE
  - ▬ 10' LANDSCAPE BUFFER/EASEMENT
  - ▬ 3' CITY OF RALEIGH EASEMENT
  - ▬ 5' ACCESS, MAINTENANCE AND UTILITY EASEMENT (ALLEYS)
- KEY LEGEND**
- PRIVATE STORM DRAINAGE EASEMENT
  - PUBLIC STORM DRAINAGE EASEMENT

**PLANT SCHEDULE AREA 'K'**

| SYMBOL              | CODE | BOTANICAL / COMMON NAME                     |
|---------------------|------|---|
| <b>CANOPY TREES</b> |      |   |
| +                   | CBE  | Carpinus betulus<br>European Hornbeam       |
| •                   | CBS  | Catalpa bignonioides<br>Southern Catalpa    |
| •                   | FGA  | Fagus grandifolia<br>American Beech         |
| •                   | QNN  | Quercus nuttallii<br>Nuttall Oak            |
| •                   | QPW  | Quercus phellos<br>Willow Oak               |
| ○                   | UAP  | Ulmus americana 'Princeton'<br>American Elm |
| ○                   | UPB  | Ulmus parvifolia 'Bosque'<br>Bosque Elm     |




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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08

**REVISIONS**  
NO. DATE

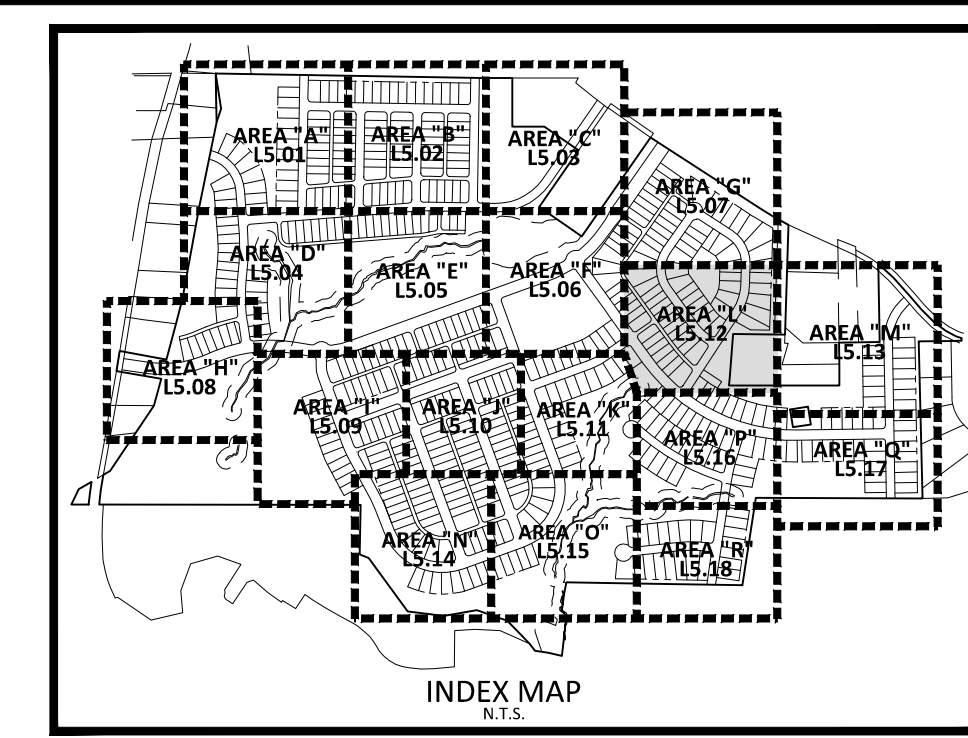
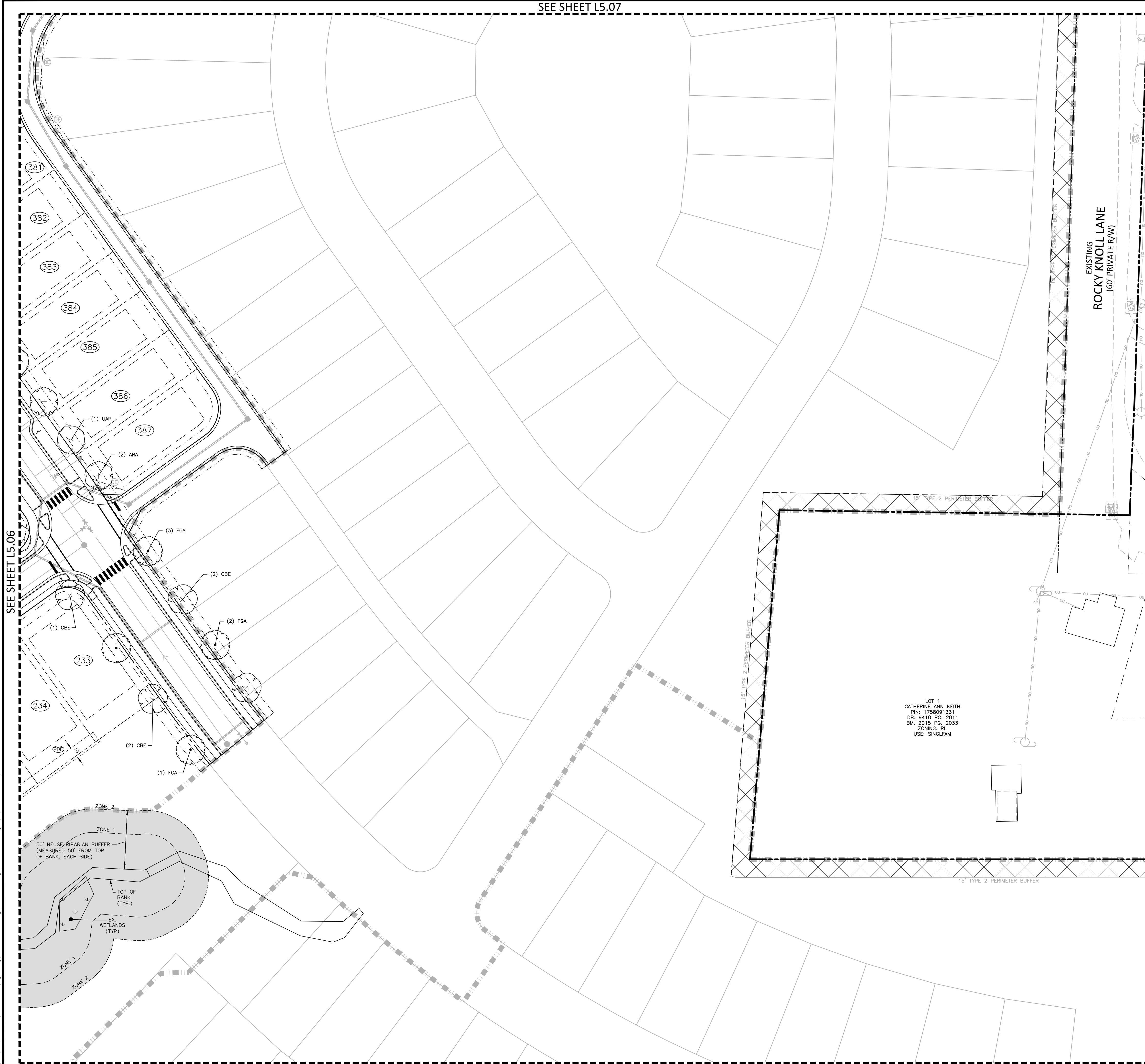
**PLAN INFORMATION**  
PROJECT NO. AGN23001  
FILENAME AGN23001-L51  
CHECKED BY JMH  
DRAWN BY SMO  
SCALE 1"=40'  
DATE 12.02.2024

**SHEET**  
**LANDSCAPE PLAN**  
**AREA "K"**  
**L5.11**

X:\Projects\AGN\AGN23001\04-Production\Engineering\Construction Drawings\Current Drawings\AGN23001-L51.dwg, 11/27/2024 3:57:19 PM, shabam Mohammadzadeh



SEE SHEET L5.07

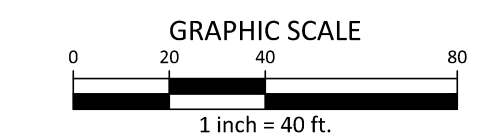
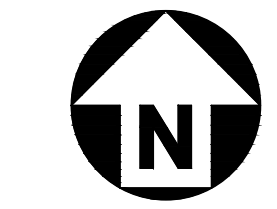


- SITE LEGEND**
- SIGNAGE
  - SITE LIGHTING
  - LIGHT POLE
  - TRAFFIC DIRECTIONAL ARROW
  - ACCESSIBLE PARKING STALL
  - VAN ACCESSIBLE PARKING STALL
  - PARKING SPACE COUNT
  - ACCESSIBLE RAMPS
  - PHASE LINE
  - PROPERTY LINE
  - RIGHT-OF-WAY LINE
  - LOT LINE
  - EASEMENT LINE
  - CENTERLINE
  - 10' LANDSCAPE BUFFER/EASEMENT
  - 3' CITY OF RALEIGH EASEMENT
  - 5' ACCESS, MAINTENANCE AND UTILITY EASEMENT (ALLEYS)
- KEY LEGEND**
- PRIVATE STORM DRAINAGE EASEMENT
  - PUBLIC STORM DRAINAGE EASEMENT

**PLANT SCHEDULE AREA 'L'**

| SYMBOL              | CODE | BOTANICAL / COMMON NAME                              |
|---------------------|------|--|
| <b>CANOPY TREES</b> |      |  |
|                     | ARA  | Acer rubrum 'Autumn Blaze'<br>Autumn Blaze Red Maple |
|                     | CBE  | Carpinus betulus<br>European Hornbeam                |
|                     | FGA  | Fagus grandifolia<br>American Beech                  |
|                     | UAP  | Ulmus americana 'Princeton'<br>American Elm          |

LOT 1  
CATHERINE ANN KEITH  
PIN: 1758091331  
DB: 9410 PG. 2011  
BM: 2015 PG. 2033  
ZONING: RL  
USE: SINGLFAM



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

**McADAMS**  
The John R. McAdams Company, Inc.  
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license number: C-0293, C-187  
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**CLIENT**  
ALLIANCE GROUP OF NC, LLC  
7208 FALLS OF NEUSE RD, SUITE 101  
RALEIGH, NORTH CAROLINA 27615  
CONTACT: JACOB ANDERSON  
PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

|             |              |
|-------------|--------------|
| PROJECT NO. | AGN23001     |
| FILENAME    | AGN23001-L51 |
| CHECKED BY  | JMH          |
| DRAWN BY    | SMO          |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**SHEET**

**LANDSCAPE PLAN**  
**AREA 'L'**  
**L5.12**

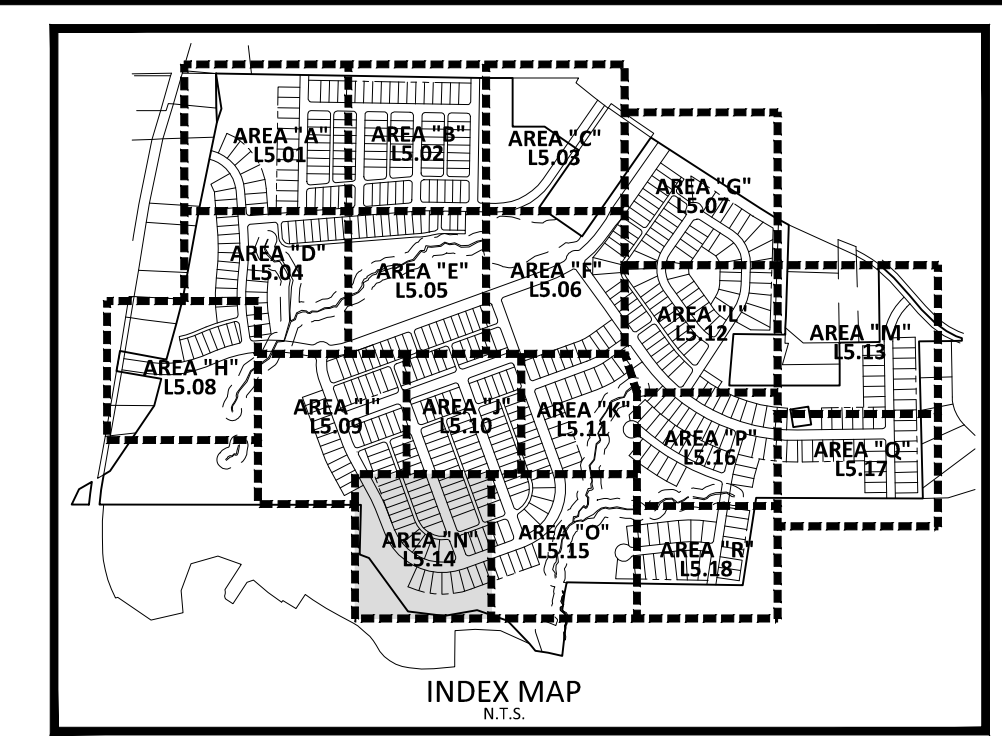
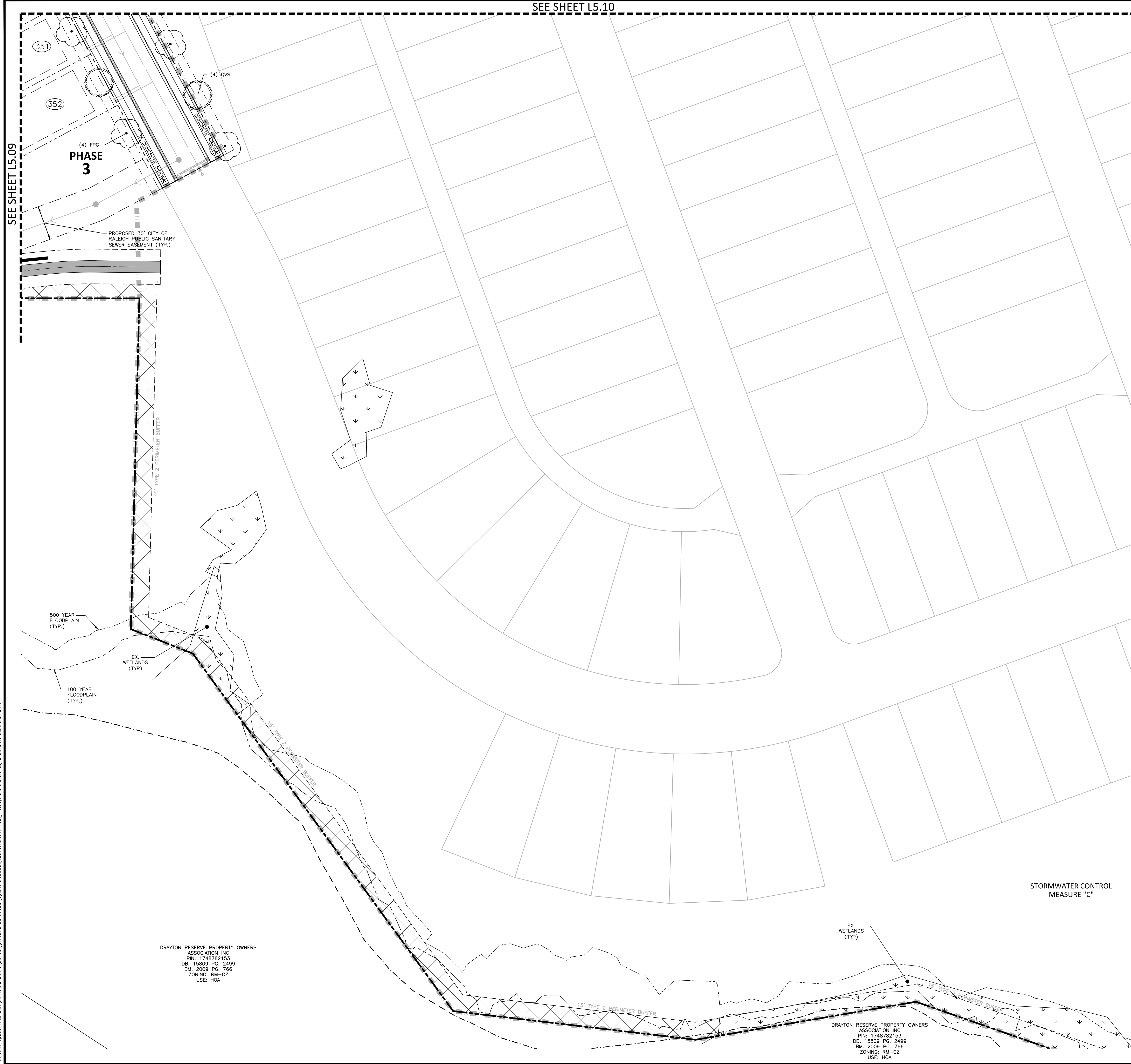
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SEE SHEET L5.10

SEE SHEET L5.09

SEE SHEET L5.15



- SITE LEGEND**
- SIGNAGE
  - SITE LIGHTING
  - LIGHT POLE
  - TRAFFIC DIRECTIONAL ARROW
  - ACCESSIBLE PARKING STALL
  - VAN ACCESSIBLE PARKING STALL
  - PARKING SPACE COUNT
  - ACCESSIBLE RAMP
  - PHASE LINE
  - PROPERTY LINE
  - RIGHT-OF-WAY LINE
  - LOT LINE
  - EASEMENT LINE
  - CENTERLINE
  - 10' LANDSCAPE BUFFER/EASEMENT
  - 3' CITY OF RALEIGH EASEMENT
  - 5' ACCESS, MAINTENANCE AND UTILITY EASEMENT (ALLEYS)
- KEY LEGEND**
- PRIVATE STORM DRAINAGE EASEMENT
  - PUBLIC STORM DRAINAGE EASEMENT

**PLANT SCHEDULE AREA 'M'**

| SYMBOL              | CODE | BOTANICAL / COMMON NAME                 |
|---------------------|------|---|
| <b>CANOPY TREES</b> |      |   |
|                     | FPG  | Fraxinus pennsylvanica<br>Green Ash     |
|                     | QVS  | Quercus virginiana<br>Southern Live Oak |

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**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



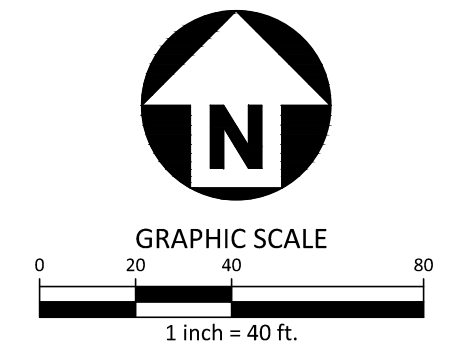
**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

|             |              |
|-------------|--------------|
| PROJECT NO. | AGN23001     |
| FILENAME    | AGN23001-L51 |
| CHECKED BY  | JMH          |
| DRAWN BY    | SMO          |
| SCALE       | 1"=40'       |
| DATE        | 12.02.2024   |

**LANDSCAPE PLAN**  
**AREA "N"**  
**L5.14**



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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DRAYTON RESERVE PROPERTY OWNERS ASSOCIATION INC  
PIN: 1748782153  
DB: 15809 PG: 2499  
BM: 2009 PG: 766  
ZONING: RM-CZ  
USE: HOA

DRAYTON RESERVE PROPERTY OWNERS ASSOCIATION INC  
PIN: 1748782153  
DB: 15809 PG: 2499  
BM: 2009 PG: 766  
ZONING: RM-CZ  
USE: HOA



**GENERAL LANDSCAPE NOTES:**

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ROLESVILLE AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR THE SITE INSPECTION BEFORE LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE BEGINNING DEMOLITION OR INSTALLATION.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES, SPECIFICATIONS, DRAWINGS OR SITE CONDITIONS FOR RESOLUTION PRIOR TO INSTALLATION.
- ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THIS PLAN IS FOR PLANTING PURPOSES ONLY. FOR INFORMATION REGARDING BUILDINGS, GRADING, WALLS, ETC., REFER TO ARCHITECTURE, SITE AND GRADING PLANS.
- VERIFICATION OF TOTAL PLANT QUANTITIES AS SHOWN IN THE PLANT SCHEDULE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- CONTRACTOR TO ENSURE PROPER STABILIZATION AND SEEDING OF THE SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- LANDSCAPE MATERIAL SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM DAMAGE, INSECTS AND DISEASES. MATERIAL SHALL BE EQUAL OR SURPASS IN QUALITY AS DEFINED IN THE CURRENT EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
- ALL PLANT MATERIAL IS TO BE CAREFULLY HANDLED BY THE ROOT BALL, NOT THE TRUNK, BRANCHES AND/OR FOLIAGE OF THE PLANT. MISHANDLED PLANT MATERIAL MAY BE REJECTED BY THE OWNER OR LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL IS TO BE WELL ROOTED, NOT ROOT BOUND, SUCH THAT THE ROOT BALL REMAINS INTACT THROUGHOUT THE PLANTING PROCESS. DEFICIENT PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
- ALL PLANTS TO BE A MINIMUM OF WHAT IS SPECIFIED IN THE PLANT SCHEDULE. ANY CHANGES OR SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND GOVERNING JURISDICTION PRIOR TO ANY HOLE BEING DUG.
- CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO ESTABLISH THE EXTENTS OF MULCH/SEED/SOIL IF NOT SPECIFICALLY SHOWN ON PLANS.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL PLANTING AREAS.
- PROPOSED TREES TO BE PLANTED A MINIMUM 10 FEET FROM ANY LIGHT POLE AS MEASURED FROM TRUNK OF THE TREE TO THE POLE.
- PROPOSED TREES TO BE PLANTED A MINIMUM 10 FEET FROM ANY FIRE HYDRANT AS MEASURED FROM TRUNK OF THE TREE TO THE HYDRANT.
- CONTRACTOR SHALL COMPLETE SOIL TEST IN ALL PLANTING AREAS TO DETERMINE SOIL AMENDMENT REQUIREMENTS UNLESS WAIVED BY OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ADJUST PH AND FERTILITY BASED UPON THE SOIL TEST RESULTS.
- TOPSOIL SHALL BE FREE OF MATERIAL LARGER THAN 1.0 INCH IN DIAMETER OR LENGTH AND SHALL NOT CONTAIN SLAG, CINDERS, STONES, LUMPS OF SOIL, STICKS, ROOTS, TRASH, OR OTHER EXTRANEOUS MATERIAL.
- LOOSEN SUBGRADE / SURFACE SOIL TO A MINIMUM DEPTH OF 6 INCHES. APPLY SOIL AMENDMENTS AND FERTILIZERS AS REQUIRED BY THE SOIL TEST RESULTS TO ACHIEVE A HEALTHY GROWING MEDIA AND MIX THOROUGHLY INTO TOP 4 INCHES OF SOIL. SPREAD PLANTING SOIL MIX TO A DEPTH OF 6 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
- IF IMPORTED TOPSOIL IS REQUIRED, THE SUBGRADE SHALL BE SCARIFIED OR TILLED TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO INSTALLATION OF IMPORTED TOPSOIL. FOLLOWING INSTALLATION OF IMPORTED TOPSOIL, THE TOPSOIL SHALL BE TILLED TO INTEGRATE THE SOIL PROFILES.
- PLANT MATERIALS ARE TO BE GUARANTEED FOR A PERIOD OF 12 MONTHS. PLANT MATERIALS WHICH REMAIN UNHEALTHY WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR BEFORE THE EXPIRATION OF THE GUARANTEE PERIOD OR IMMEDIATELY IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
- ALL TREE PLANTINGS SHALL BE MULCHED TO A DEPTH OF 3 INCHES, AND WITH A MINIMUM 3 FOOT RADIUS FROM BASE OF TREE OR TO DRIPLINE. MULCH SHALL BE FREE OF TRASH AND MAINTAINED WEED FREE. MULCH SHALL NOT COVER THE ROOT FLARE. CONFIRM MULCH SPECIFICATIONS WITH OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
- DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING OF EXTERIOR PLANTS DURING DELIVERY. DO NOT DROP EXTERIOR PLANTS DURING DELIVERY AND HANDLING.
- DELIVER EXTERIOR PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND INSTALL IMMEDIATELY. IMMEDIATELY AFTER UNLOADING, STAND THE TREES UP TO REDUCE THE RISK OF SUN SCALD. PROPERLY STAGED TREES ARE STANDING, UNTIED AND SPACED. UNLESS IMMEDIATELY INSTALLED, SET EXTERIOR PLANTS AND TREES IN SHADE. PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
- CONTRACTOR SHALL REMOVE DEBRIS AND FINE GRADE ALL PLANTING AREAS PRIOR TO INSTALLATION.
- REMOVE GUY WIRES AND STAKES AT END OF WARRANTY PERIOD OR ESTABLISHMENT.
- FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISHED GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.

**WARRANTY & MAINTENANCE:**

- WARRANTY: INSTALLER SHALL REPAIR OR REPLACE ANY PLANTINGS THAT FAIL IN MATERIAL, WORKMANSHIP, OR GROWTH WITHIN ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
  - DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM NEGLECT, ABUSE BY OWNER, OR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
- MAINTENANCE: INITIAL MAINTENANCE SHALL BE PROVIDED IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL SUBSTANTIAL COMPLETION. UPON SUBSTANTIAL COMPLETION, MAINTENANCE FOR ALL PLANT MATERIAL SHALL BE PROVIDED FOR ONE YEAR AT A MINIMUM SHALL INCLUDE:
  - TREE AND SHRUB MAINTENANCE: MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, AND RESETTLING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.
  - PROTECT EXTERIOR PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES, AND OTHERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED PLANTINGS.

**LANDSCAPE CALCULATIONS - TOWN OF ROLESVILLE**

**PERIMETER BUFFERS (LDO 6.2.2.1)**

SUBJECT PROPERTY ZONED RM-CU, ZONING DISTRICT OF ADJACENT PROPERTIES IS RL OR R-30  
 A TYPE 2 BUFFER (15' WIDTH) IS REQUIRED PER LDO 6.2.2.1.G AND IS PROPOSED HEREIN.

PLANT MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE BELOW MINIMUM STANDARDS

|                  |           |
|------------------|-----------|
| CANOPY TREES     | 3/100 LF  |
| UNDERSTORY TREES | 1/100 LF  |
| SHRUBS           | 50/100 LF |

TOTAL PERIMETER BUFFER 16,488 LF

PERIMETER BUFFER AREAS LEFT IN AN UNDISTURBED, VEGETATED CONDITION DO NOT REQUIRE REPLANTING OR FENCE INSTALLATION. WHERE BUFFER REPLANTING IS REQUIRED, AN ADDITIONAL 3 EVERGREEN UNDERSTORY TREES PER 100' MAY BE PROVIDED IN LIEU OF A 6' FENCE.

TOTAL LINEAR FEET TO BE REPLANTED: TBD

|                                   |      |
|-----------------------------------|------|
| CANOPY TREES TO BE REPLANTED:     | TBD  |
| REQUIRED:                         | 495  |
| PROVIDED:                         | 495  |
| UNDERSTORY TREES TO BE REPLANTED: | TBD  |
| REQUIRED:                         | 165  |
| PROVIDED:                         | 165  |
| SHRUBS TO BE REPLANTED:           | TBD  |
| REQUIRED:                         | 8244 |
| PROVIDED:                         | 8244 |

**STREET BUFFERS**

|                   |                           |
|-------------------|---------------------------|
| STREET 'A' (MAIN) | 6,484 LF                  |
| TOTAL LENGTH:     | 162 STREET TREES (1/40LF) |
| REQUIRED:         | 166                       |
| PROVIDED:         |                           |

|                   |                          |
|-------------------|--------------------------|
| STREET 'B' (MAIN) | 708 LF                   |
| TOTAL LENGTH:     | 18 STREET TREES (1/40LF) |
| REQUIRED:         | 14                       |
| PROVIDED:         |                          |

|                        |                          |
|------------------------|--------------------------|
| STREET 'B' (COLLECTOR) | 1,982 LF                 |
| TOTAL LENGTH:          | 40 STREET TREES (1/50LF) |
| REQUIRED:              | 40                       |
| PROVIDED:              |                          |

|                   |                          |
|-------------------|--------------------------|
| STREET 'C' (MAIN) | 844 LF                   |
| TOTAL LENGTH:     | 21 STREET TREES (1/40LF) |
| REQUIRED:         | 22                       |
| PROVIDED:         |                          |

|                        |                         |
|------------------------|-------------------------|
| STREET 'C' (COLLECTOR) | 374 LF                  |
| TOTAL LENGTH:          | 7 STREET TREES (1/50LF) |
| REQUIRED:              | 8                       |
| PROVIDED:              |                         |

|                        |                          |
|------------------------|--------------------------|
| STREET 'D' (COLLECTOR) | 2,107 LF                 |
| TOTAL LENGTH:          | 43 STREET TREES (1/50LF) |
| REQUIRED:              | 43                       |
| PROVIDED:              |                          |

|                    |                          |
|--------------------|--------------------------|
| STREET 'E' (LOCAL) | 1,931 LF                 |
| TOTAL LENGTH:      | 33 STREET TREES (1/60LF) |
| REQUIRED:          | 28                       |
| PROVIDED:          |                          |

|                    |                          |
|--------------------|--------------------------|
| STREET 'F' (LOCAL) | 1,043 LF                 |
| TOTAL LENGTH:      | 18 STREET TREES (1/60LF) |
| REQUIRED:          | 20                       |
| PROVIDED:          |                          |

|                    |                          |
|--------------------|--------------------------|
| STREET 'G' (LOCAL) | 1,258 LF                 |
| TOTAL LENGTH:      | 21 STREET TREES (1/60LF) |
| REQUIRED:          | 23                       |
| PROVIDED:          |                          |

|                    |                          |
|--------------------|--------------------------|
| STREET 'H' (LOCAL) | 2,191 LF                 |
| TOTAL LENGTH:      | 37 STREET TREES (1/60LF) |
| REQUIRED:          | 41                       |
| PROVIDED:          |                          |

|                    |                          |
|--------------------|--------------------------|
| STREET 'I' (LOCAL) | 1,656 LF                 |
| TOTAL LENGTH:      | 28 STREET TREES (1/60LF) |
| REQUIRED:          | 30                       |
| PROVIDED:          |                          |

|                    |                          |
|--------------------|--------------------------|
| STREET 'J' (LOCAL) | 1,126 LF                 |
| TOTAL LENGTH:      | 19 STREET TREES (1/60LF) |
| REQUIRED:          | 19                       |
| PROVIDED:          |                          |

|                   |                          |
|-------------------|--------------------------|
| STREET 'K' (MAIN) | 1,701 LF                 |
| TOTAL LENGTH:     | 43 STREET TREES (1/40LF) |
| REQUIRED:         | 40                       |
| PROVIDED:         |                          |

|                    |                         |
|--------------------|-------------------------|
| STREET 'L' (LOCAL) | 208 LF                  |
| TOTAL LENGTH:      | 3 STREET TREES (1/60LF) |
| REQUIRED:          | 4                       |
| PROVIDED:          |                         |

|                    |                         |
|--------------------|-------------------------|
| STREET 'M' (LOCAL) | 208 LF                  |
| TOTAL LENGTH:      | 3 STREET TREES (1/60LF) |
| REQUIRED:          | 4                       |
| PROVIDED:          |                         |

|                    |                          |
|--------------------|--------------------------|
| STREET 'N' (LOCAL) | 1,921 LF                 |
| TOTAL LENGTH:      | 32 STREET TREES (1/60LF) |
| REQUIRED:          | 36                       |
| PROVIDED:          |                          |

|                        |                          |
|------------------------|--------------------------|
| STREET 'O' (COLLECTOR) | 3,383 LF                 |
| TOTAL LENGTH:          | 68 STREET TREES (1/50LF) |
| REQUIRED:              | 74                       |
| PROVIDED:              |                          |

|                    |                          |
|--------------------|--------------------------|
| STREET 'P' (LOCAL) | 1,319 LF                 |
| TOTAL LENGTH:      | 24 STREET TREES (1/60LF) |
| REQUIRED:          | 22                       |
| PROVIDED:          |                          |

|                    |                          |
|--------------------|--------------------------|
| STREET 'Q' (LOCAL) | 1,260 LF                 |
| TOTAL LENGTH:      | 21 STREET TREES (1/60LF) |
| REQUIRED:          | 23                       |
| PROVIDED:          |                          |

|                    |                          |
|--------------------|--------------------------|
| STREET 'R' (LOCAL) | 1,409 LF                 |
| TOTAL LENGTH:      | 24 STREET TREES (1/60LF) |
| REQUIRED:          | 21                       |
| PROVIDED:          |                          |

|                    |                          |
|--------------------|--------------------------|
| STREET 'S' (LOCAL) | 856 LF                   |
| TOTAL LENGTH:      | 15 STREET TREES (1/60LF) |
| REQUIRED:          | 17                       |
| PROVIDED:          |                          |

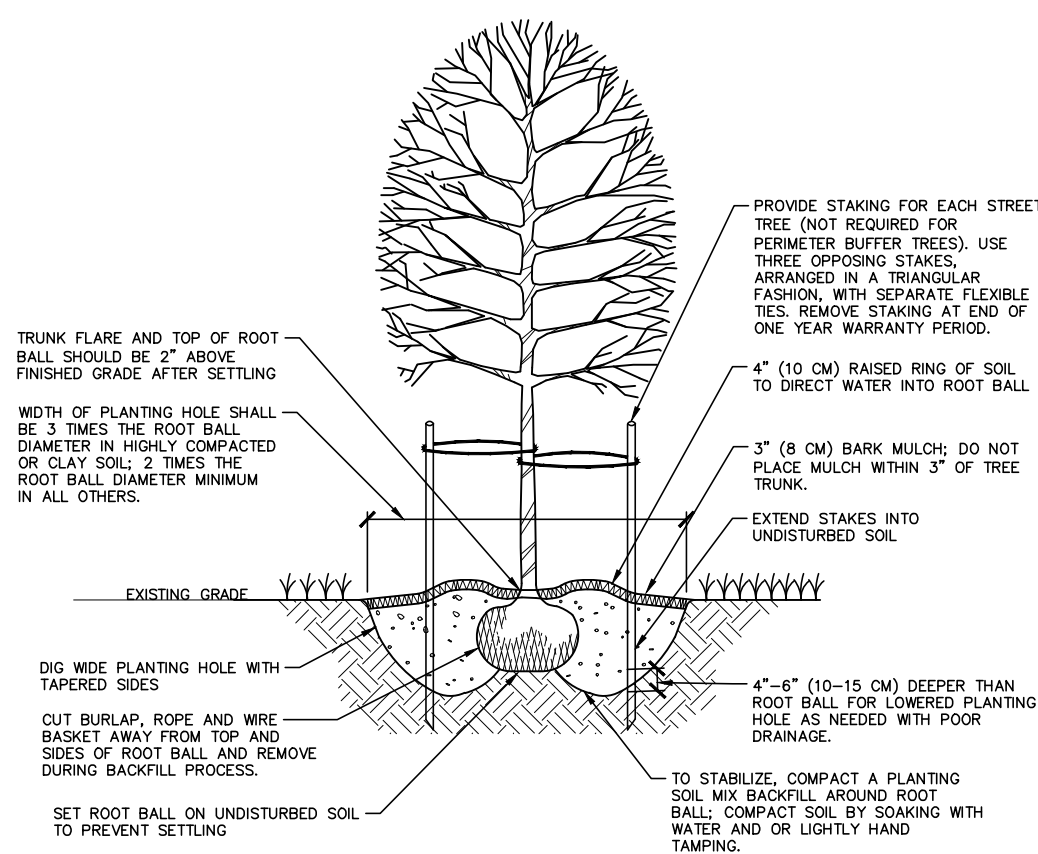
|                    |                          |
|--------------------|--------------------------|
| STREET 'T' (LOCAL) | 807 LF                   |
| TOTAL LENGTH:      | 14 STREET TREES (1/60LF) |
| REQUIRED:          | 16                       |
| PROVIDED:          |                          |

**PLANT DIVERSITY (LDO 6.2.4.3)**

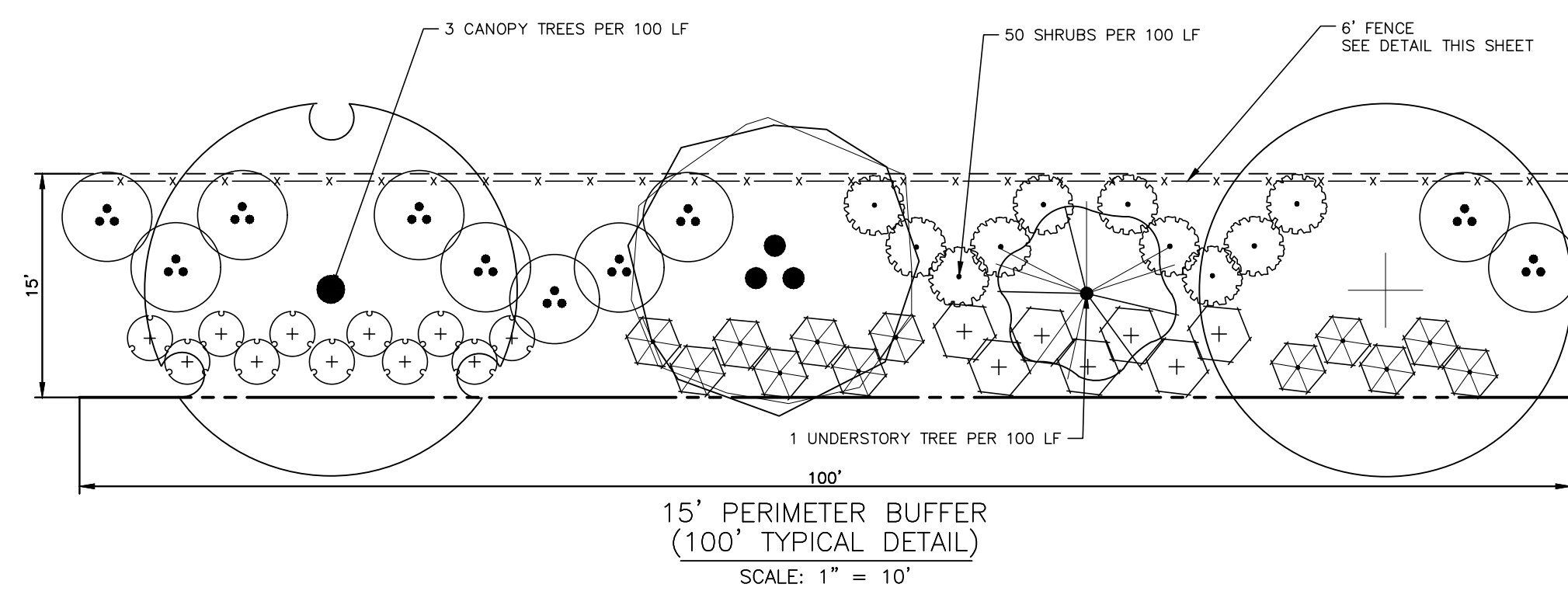
- THERE ARE GREATER THAN 100 TREES PLANTED ON SITE
- THE MINIMUM NUMBER OF GENERA REQUIRED IS FOUR (4)
- A MAXIMUM OF 40% OF ANY ONE GENERA IS ALLOWED

|                                 |                  |
|---------------------------------|------------------|
| TOTAL CANOPY TREES PROVIDED:    | 881 CANOPY TREES |
| MAXIMUM OF ANY GENERA ALLOWED:  | 353 (40%)        |
| MAXIMUM OF ANY GENERA PROPOSED: | 65               |

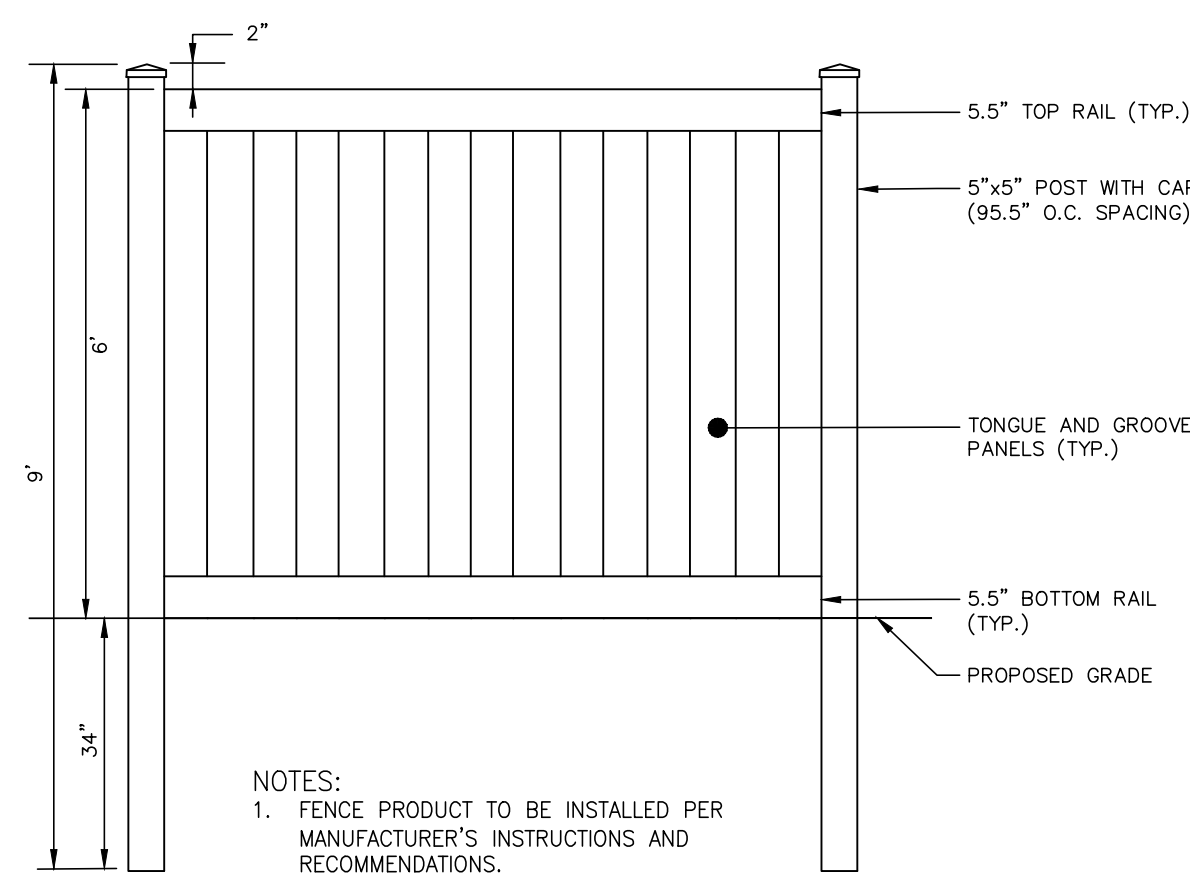
ADDITIONAL LDO NOTES  
 • NO TREE MAY BE PLANTED CLOSER THAN 35' OF A STREET CORNER, MEASURED FROM THE POINT OF NEAREST INTERSECTION CURBS.  
 • NO STREET TREE SHALL BE PLANTED CLOSER THAN 10' FROM ANY FIRE HYDRANT.



**01 TREE INSTALLATION**  
 SCALE: NTS



- NOTES:
- BUFFERS ARE TO BE PROTECTED UNTIL AFTER LANDSCAPE INSPECTION, AT WHICH TIME IT WILL BE DETERMINED IF SUPPLEMENTAL PLANTING IS REQUIRED.
  - LOCATION AND EXTENTS OF 6 FT FENCING TO BE COORDINATED DURING INSTALLATION TO ACCOMMODATE EXISTING PLANT MATERIAL.
  - PERIMETER BUFFER PLANTING REQUIREMENTS:  
 CANOPY TREE - MIN 3 PER 100 LINEAR FEET  
 UNDERSTORY TREE - MIN 1 PER 100 LINEAR FEET  
 SHRUBS - 50 PER 100 LINEAR FEET

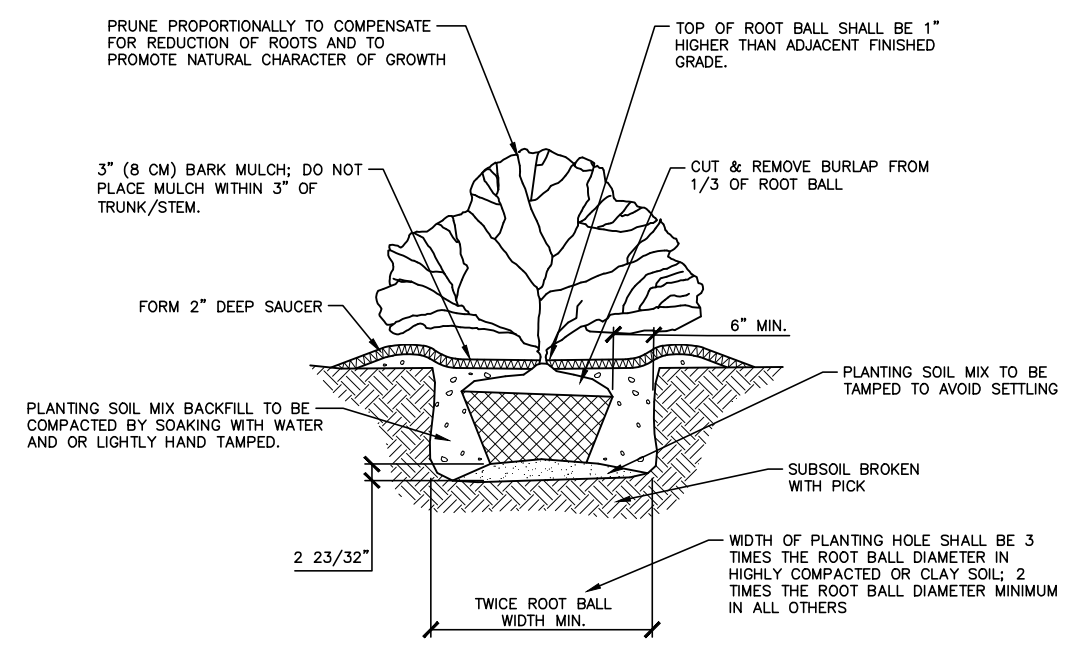


**03 FENCE**  
 SCALE: NTS

- NOTES:
- FENCE PRODUCT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.



PRODUCT INFORMATION:  
 SUPPLIER: ILLUSIONS VINYL FENCE  
 MODEL: PRIVACY TONGUE AND GROOVE (V300-6)  
[https://www.https://illusionsfence.com/fence\\_styles/privacy-tongue-groove/](https://www.https://illusionsfence.com/fence_styles/privacy-tongue-groove/)  
 1.800.339.3362



**02 SHRUB INSTALLATION**  
 SCALE: NTS



The John R. McAdams Company, Inc.  
 2905 Meridian Parkway  
 Durham, NC 27713  
 phone 919. 361. 5000  
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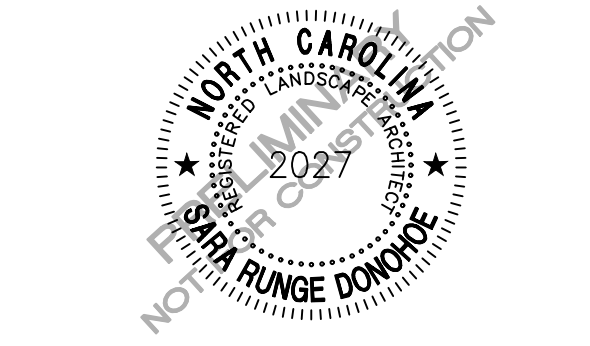
www.mcadamsco.com

CLIENT  
 ALLIANCE GROUP OF NC, LLC  
 7208 FALLS OF NEUSE RD, SUITE 101  
 RALEIGH, NORTH CAROLINA 27615  
 CONTACT: JACOB ANDERSON  
 PHONE: 919. 239. 9486



**PEARCE FARM - PHASES 1-3**  
**CONSTRUCTION DRAWINGS - PACKAGE 1**  
 BURLINGTON MILLS ROAD  
 TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

|             |              |
|-------------|--------------|
| PROJECT NO. | AGN23001     |
| FILENAME    | AGN23001-L51 |
| CHECKED BY  | JMH          |
| DRAWN BY    | SMO          |
| SCALE       | NTS          |
| DATE        | 12. 02. 2024 |

**SHEET**

**LANDSCAPE CALCULATIONS AND DETAILS**

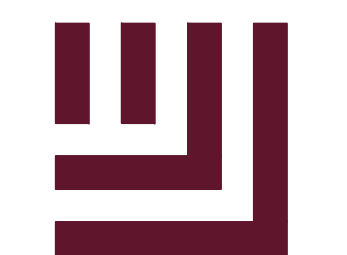
**L5.15**



PLANT SCHEDULE

| SYMBOL                  | CODE | QTY | BOTANICAL NAME                           | COMMON NAME                 | CAL     | HEIGHT  | REMARKS  |
|-------------------------|------|-----|--|-----------------------------|---------|---------|--|
| <b>CANOPY TREES</b>     |      |     |  |                             |         |         |  |
|                         | ARA  | 28  | Acer rubrum 'Autumn Blaze'               | Autumn Blaze Red Maple      | 2.5"    | 12' min | Street Tree, Mature Height: 40'-60', Caliper Size: 30'-50'   |
|                         | ARR  | 20  | Acer rubrum 'Red Sunset'                 | Red Sunset Maple            | 2.5"    | 12' min | Street Tree, Mature Height: 40'-50', Caliper Size: 30'-40'   |
|                         | ARS  | 26  | Acer rubrum 'Summer Red'                 | Summer Red Red Maple        | 2.5"    | 12' min | Street Tree, Mature Height: 35'-40', Mature Width: 20'-25'   |
|                         | ASL  | 28  | Acer saccharum 'Legacy'                  | Legacy Sugar Maple          | 2.5"    | 12' min | Street Tree, Mature Height: 40'-50', Caliper Size: 25'-35'   |
|                         | CBE  | 4   | Carpinus betulus                         | European Hornbeam           | 2.5"    | 12' min | Street Tree, Mature Height: 30'-40', Caliper Size: 20'-30'   |
|                         | CIP  | 9   | Carya illinoensis                        | Pecan                       | 2.5"    | 12' min | Street Tree, Mature Height: 70'-100', Caliper Size: 40'-75'  |
|                         | CBS  | 17  | Catalpa bignonioides                     | Southern Catalpa            | 2.5"    | 12' min | Street Tree, Mature Height: 30'-60', Caliper Size: 20'-40'   |
|                         | FGA  | 24  | Fagus grandifolia                        | American Beech              | 2.5"    | 12' min | Street Tree, Mature Height: 50'-80', Caliper Size: 40'-80'   |
|                         | FPG  | 4   | Fraxinus pennsylvanica                   | Green Ash                   | 2.5"    | 12' min | Street Tree, Mature Height: 50'-70', Caliper Size: 35'-50'   |
|                         | GBA  | 45  | Ginkgo biloba 'Autumn Gold' TM           | Maidenhair Tree             | 2.5"    | 12' min | Street Tree, Mature Height: 40'-50', Caliper Size: 25'-30'   |
|                         | LTT  | 46  | Liriodendron tulipifera                  | Tulip Tree                  | 2.5"    | 12' min | Street Tree, Mature Height: 40'-90', Caliper Size: 30'-50'   |
|                         | MGD  | 16  | Magnolia grandiflora 'D.D. Blanchard' TM | Southern Magnolia           | -       | 12' min | Street Tree, Mature Height: 50'-70', Mature Width: 20'-35'   |
|                         | NSS  | 33  | Nyssa sylvatica                          | Sour Gum                    | 2.5"    | 12' min | Street Tree, Mature Height: 30'-50', Caliper Size: 20'-30'   |
|                         | POA  | 20  | Platanus occidentalis                    | American Sycamore           | 2.5"    | 12' min | Street Tree, Mature Height: 75'-100', Caliper Size: 75'-100' |
|                         | QAW  | 23  | Quercus alba                             | White Oak                   | 2.5"    | 12' min | Street Tree, Mature Height: 50'-80', Caliper Size: 50'-80'   |
|                         | QCS  | 9   | Quercus coccinea                         | Scarlet Oak                 | 2.5"    | 12' min | Street Tree, Mature Height: 50'-80', Caliper Size: 45'-60'   |
|                         | QLO  | 30  | Quercus lyrata                           | Overcup Oak                 | 2.5"    | 12' min | Street Tree, Mature Height: 40'-60', Caliper Size: 40'-60'   |
|                         | QMB  | 8   | Quercus marilandica                      | Blackjack Oak               | 2.5"    | 12' min | Street Tree, Mature Height: 30'-50', Caliper Size: 20'-40'   |
|                         | QNN  | 24  | Quercus nuttallii                        | Nuttall Oak                 | 2.5"    | 12' min | Street Tree, Mature Height: 50'-80', Caliper Size: 40'-65'   |
|                         | QPP  | 31  | Quercus palustris                        | Pin Oak                     | 2.5"    | 12' min | Street Tree, Mature Height: 50'-70', Caliper Size: 40'-60'   |
|                         | QPW  | 32  | Quercus phellos                          | Willow Oak                  | 2.5"    | 12' min | Street Tree, Mature Height: 40'-75', Caliper Size: 25'-50'   |
|                         | QVS  | 12  | Quercus virginiana                       | Southern Live Oak           | 2.5"    | 12' min | Street Tree, Mature Height: 40'-80', Caliper Size: 60'-100'  |
|                         | TDB  | 19  | Taxodium distichum                       | Bald Cypress                | 2.5"    | 12' min | Street Tree, Mature Height: 50'-70', Caliper Size: 20'-45'   |
|                         | UAP  | 29  | Ulmus americana 'Princeton'              | American Elm                | 2.5"    | 12' min | Street Tree, Mature Height: 50'-70', Caliper Size: 30'-50'   |
|                         | UPB  | 5   | Ulmus parvifolia 'Bosque'                | Bosque Elm                  | 2.5"    | 12' min | Street Tree, Mature Height: 40'-80', Caliper Size: 30'-50'   |
|                         | ZSG  | 8   | Zelkova serrata 'Green Vase'             | Sawleaf Zelkova             | 2.5"    | 12' min | Street Tree, Mature Height: 60'-80', Caliper Size: 40'-50'   |
|                         | ZSM  | 24  | Zelkova serrata 'Myrimar'                | Myrimar Zelkova             | 2.5"    | 12' min | Street Tree, Mature Height: 60'-80', Caliper Size: 40'-50'   |
| <b>UNDERSTORY TREES</b> |      |     |  |                             |         |         |  |
|                         | CCP  | 28  | Cercis canadensis 'Forest Pansy' TM      | Forest Pansy Redbud         | 1"      | 8'      | 15' PERIMETER BUFFER UNDERSTORY TREE                         |
| <b>EVERGREEN SHRUBS</b> |      |     |  |                             |         |         |  |
|                         | IVND | 335 | Ilex vomitoria 'Nano'                    | Dwarf Yaupon                | 18" min |         | 15' PERIMETER BUFFER SHRUB                                   |
|                         | IPFS | 280 | Illicium parviflorum 'Florida Sunshine'  | Florida Sunshine Anise Tree | 24" min |         | 15' PERIMETER BUFFER SHRUB                                   |
|                         | MMWS | 520 | Mahonia x media 'Winter Sun'             | Mahonia hybrid              | 18" min |         | 15' PERIMETER BUFFER SHRUB                                   |
|                         | OFSO | 340 | Osmanthus fragrans                       | Sweet Olive                 | 24" min |         | 15' PERIMETER BUFFER SHRUB                                   |
|                         | VTAR | 197 | Viburnum tinus                           | Arrowwood                   | 18" min |         | 15' PERIMETER BUFFER SHRUB                                   |

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**PEARCE FARM - PHASES 1-3**  
CONSTRUCTION DRAWINGS - PACKAGE 1  
BURLINGTON MILLS ROAD  
TOWN OF ROLESVILLE, NORTH CAROLINA

CID-24-08



**REVISIONS**

| NO. | DATE |
|-----|------|
|     |      |

**PLAN INFORMATION**

|             |              |
|-------------|--------------|
| PROJECT NO. | AGN23001     |
| FILENAME    | AGN23001-LS1 |
| CHECKED BY  | JMH          |
| DRAWN BY    | SMO          |
| SCALE       | NTS          |
| DATE        | 12.02.2024   |

**SHEET**  
**LANDSCAPE SCHEDULE**

**L5.16**