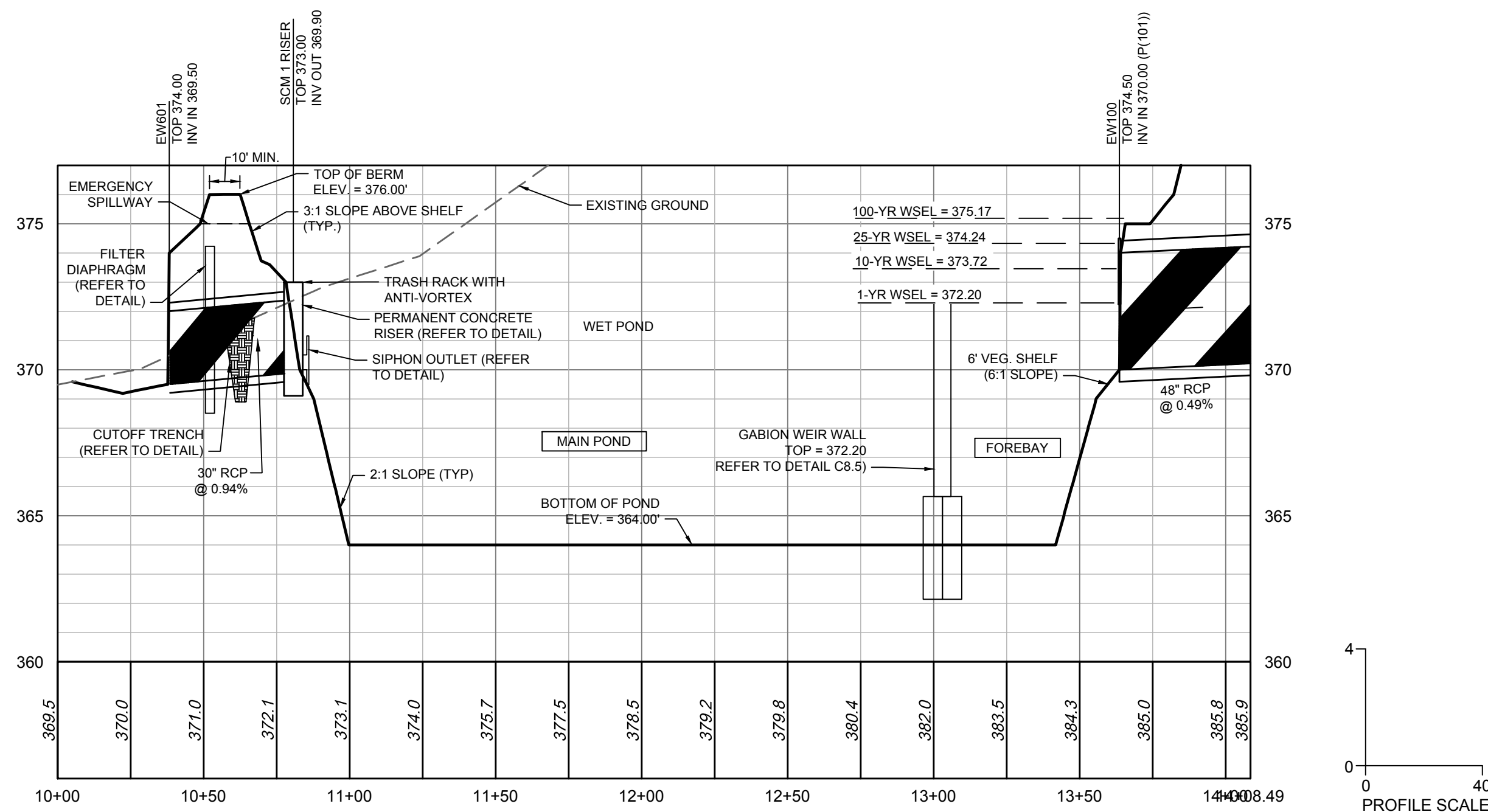
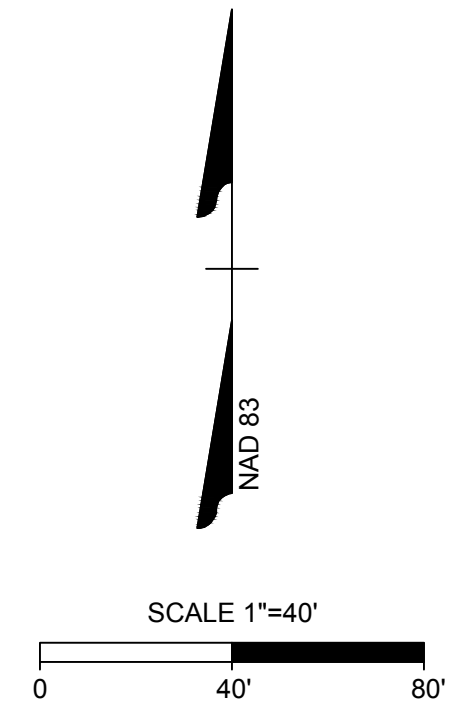


WET POND PLAN VIEW



WET POND PROFILE VIEW

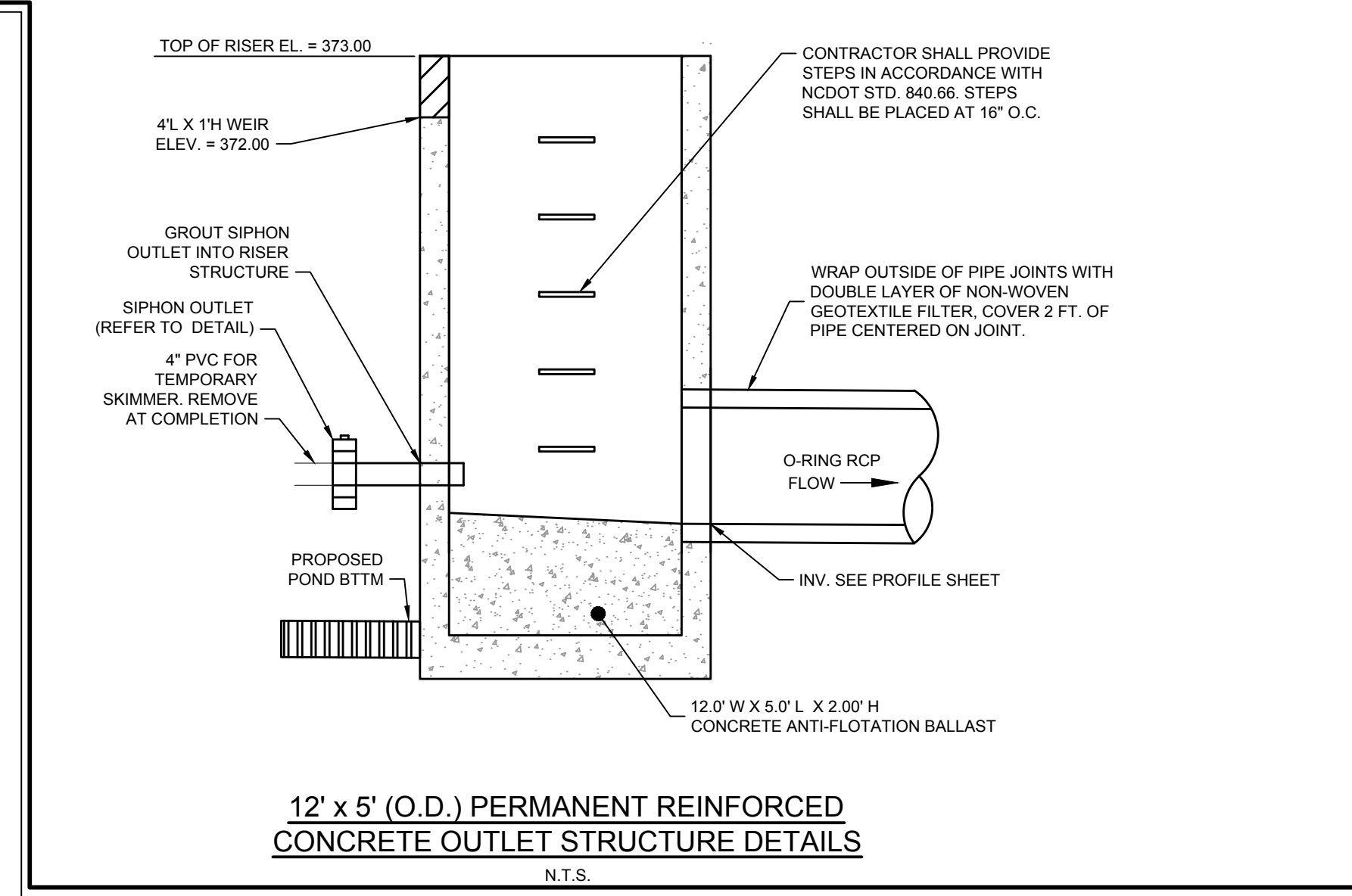
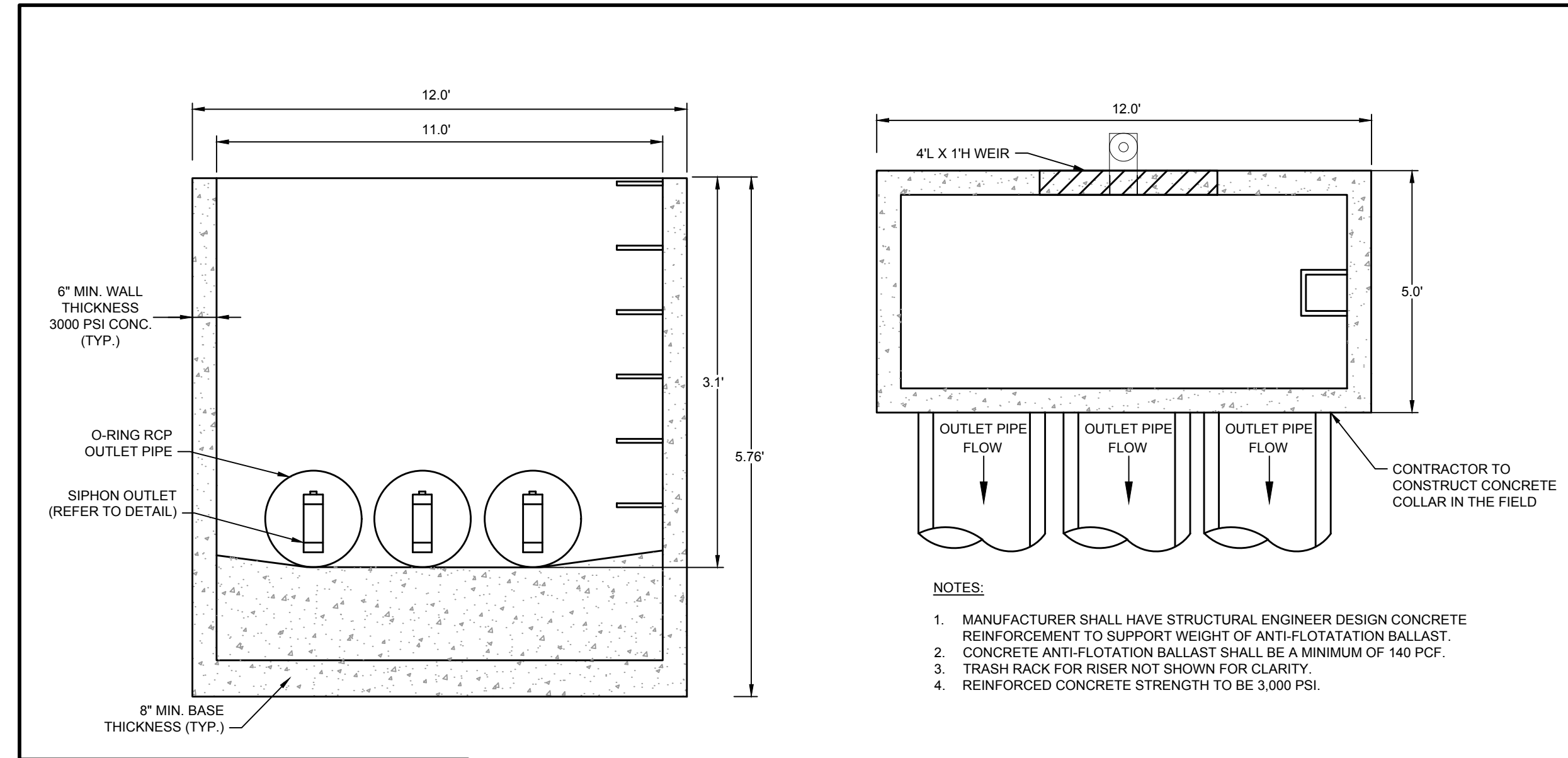
**POND VEGETATED SHELF PLANT LIST**

MINIMUM REQUIRED PLANT DENSITY = 50 PLANTS PER 200 SQUARE FEET OF VEGETATED SHELF  
 (5,104 SF / 200 SF) \* 50 PLANTS = 1,276 MINIMUM PLANTS REQUIRED.

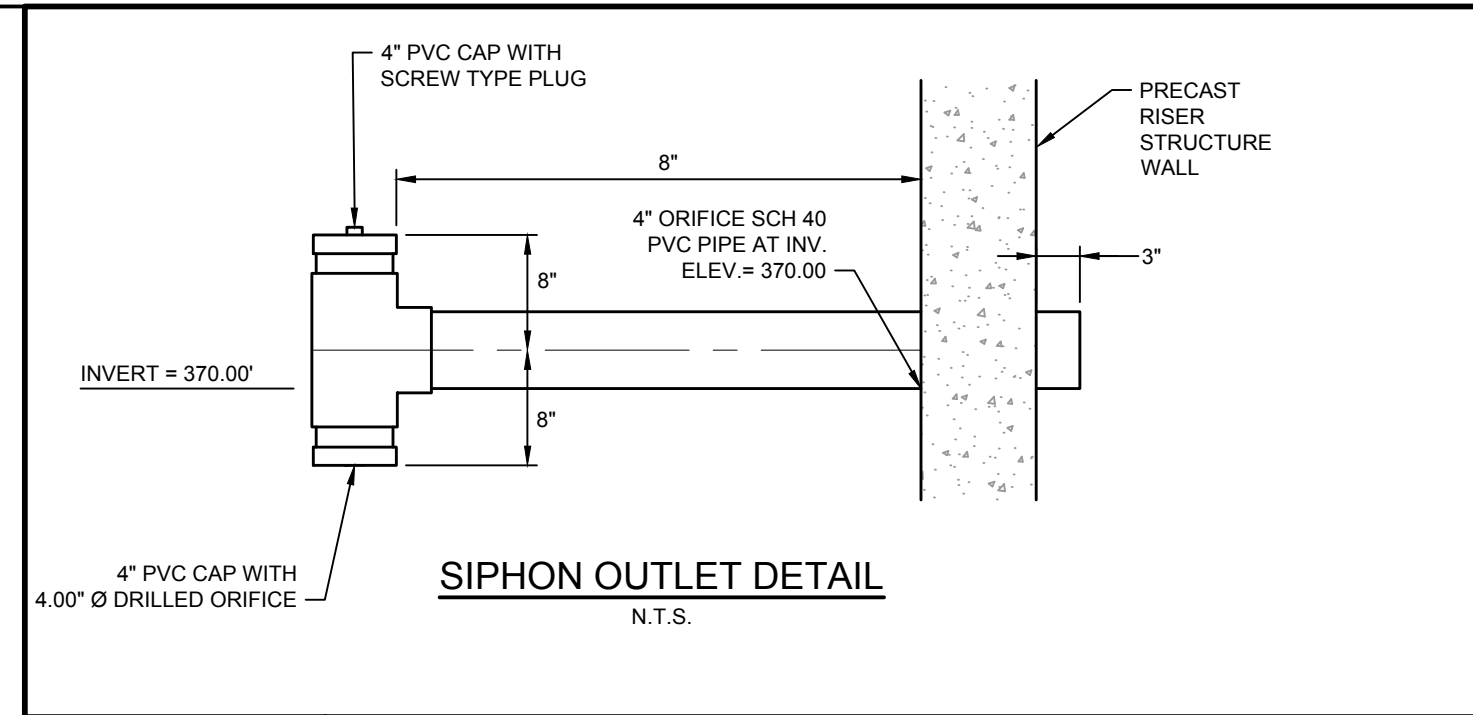
THE FOLLOWING PLANTS SHALL BE PLANTED ON THE 6-FOOT WIDE VEGETATED SHELF BETWEEN THE ELEVATIONS OF 369.0 - 370.0:

QUA.	BOTANICAL NAME	COMMON NAME	SPACING	NOTES
212	EUPATORIADELPHUS FISTULOSUS	JOE PYE WEED	4' O.C.	PLANT IN GROUPS OF 5
212	LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	4' O.C.	PLANT IN GROUPS OF 5
213	LOBELIA CARDINALIS	CARDINAL FLOWER	4' O.C.	PLANT IN GROUPS OF 5
213	EUPATORIADELPHUS MACULATUS	SPOTTED TRUMPETWEED	4' O.C.	PLANT IN GROUPS OF 5
213	ASCLEPIAS INCARNATA	SWAMP MILKWEED	4' O.C.	PLANT IN GROUPS OF 5
213	SACCHARUM BALDWINII	NARROW PLUMEGRASS	4' O.C.	PLANT IN GROUPS OF 5

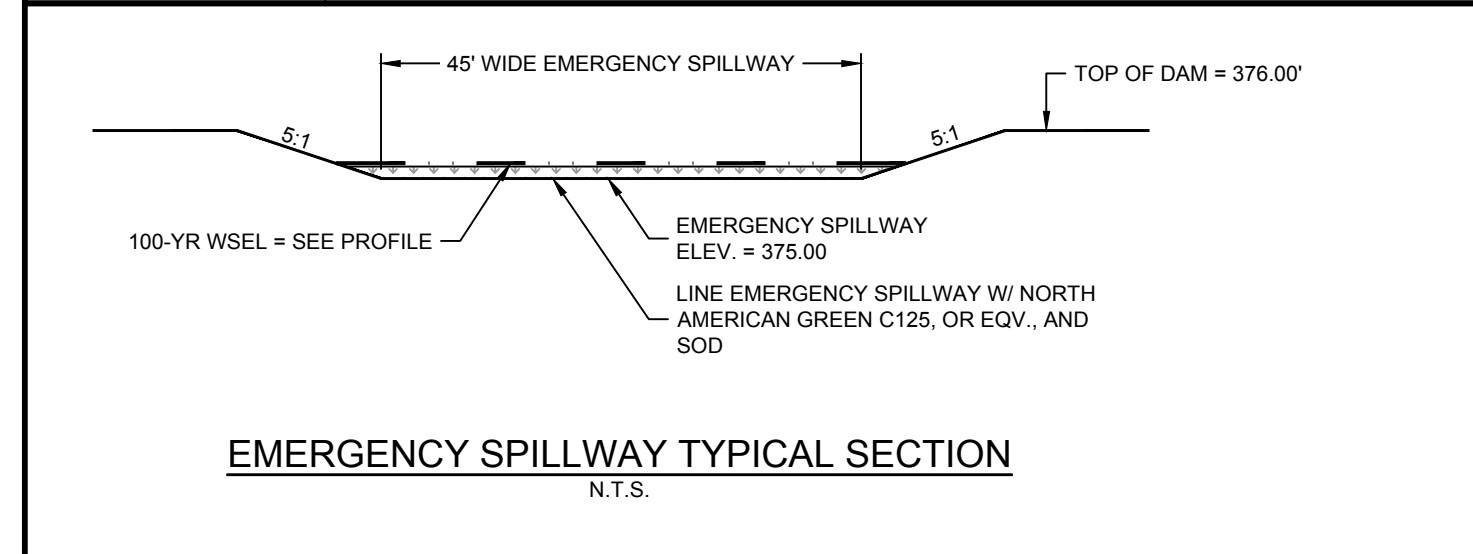
NURSERY SOURCES:  
 MELLOW MARSH FARM (919) 742-1200  
 CURE NURSERY (919) 542-6186



12' x 5' (O.D.) PERMANENT REINFORCED CONCRETE OUTLET STRUCTURE DETAILS N.T.S.



SIPHON OUTLET DETAIL N.T.S.



EMERGENCY SPILLWAY TYPICAL SECTION N.T.S.



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DATE: 09/17/2021

DRAWN BY: A. BROWN

DESIGNED BY: P. BARBEAU

CHECKED BY: P. BARBEAU

SCALE: AS SHOWN

**TIMMONS GROUP**

NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**

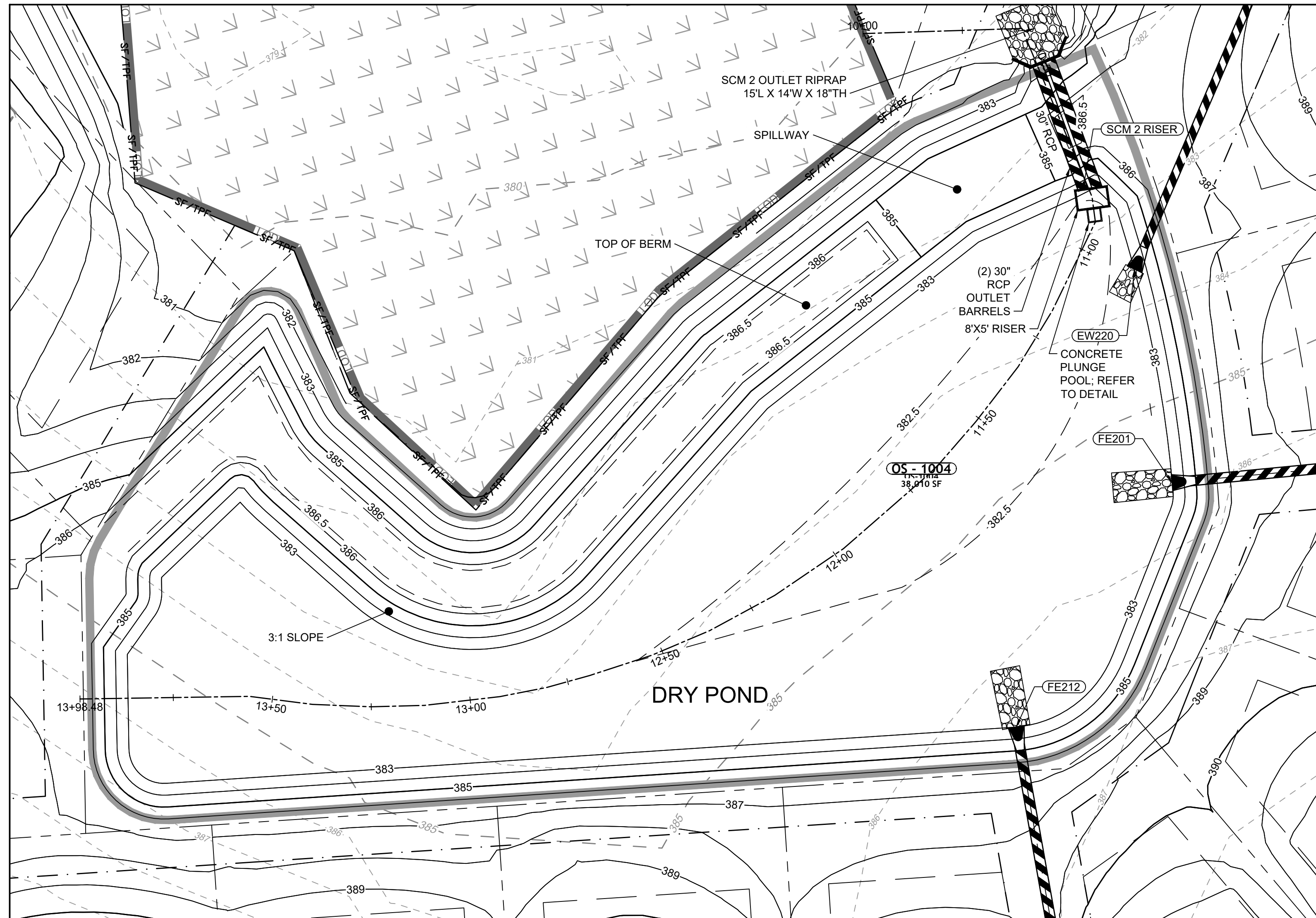
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

SCM 1 DETAILS

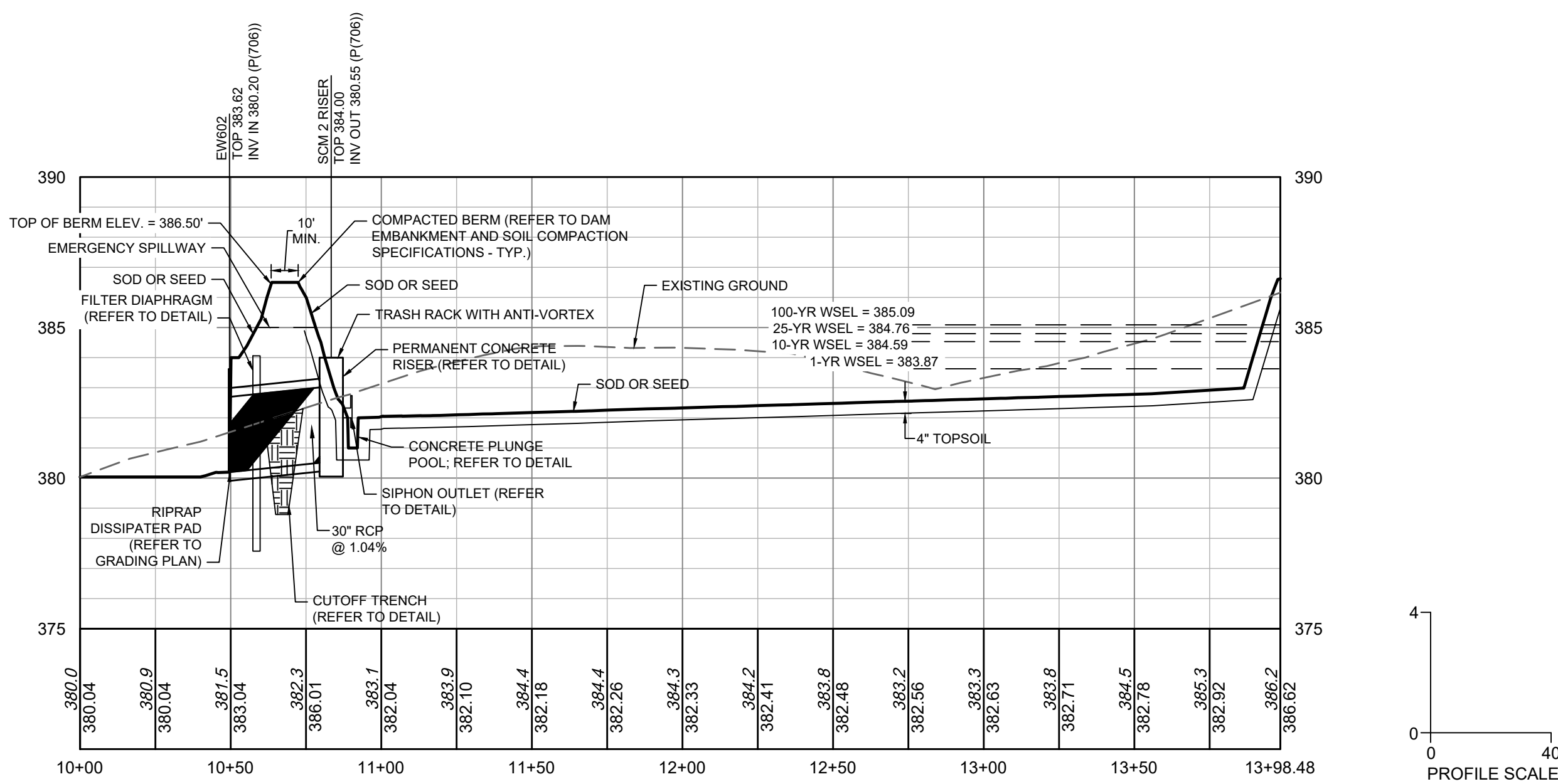
JOB NO. 43398

SHEET NO. C8.0

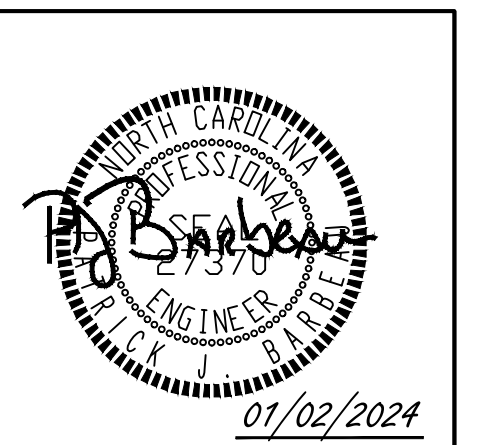
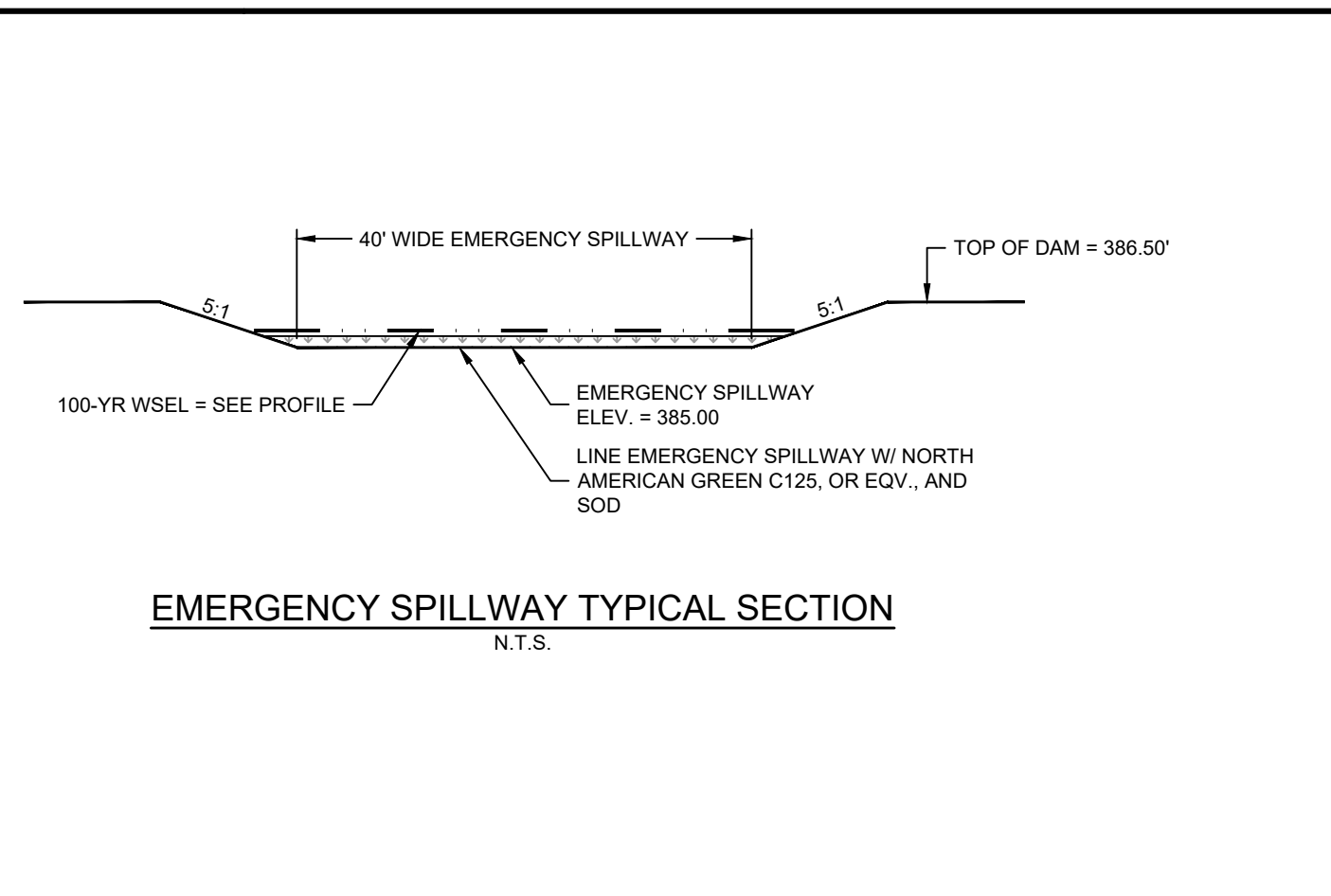
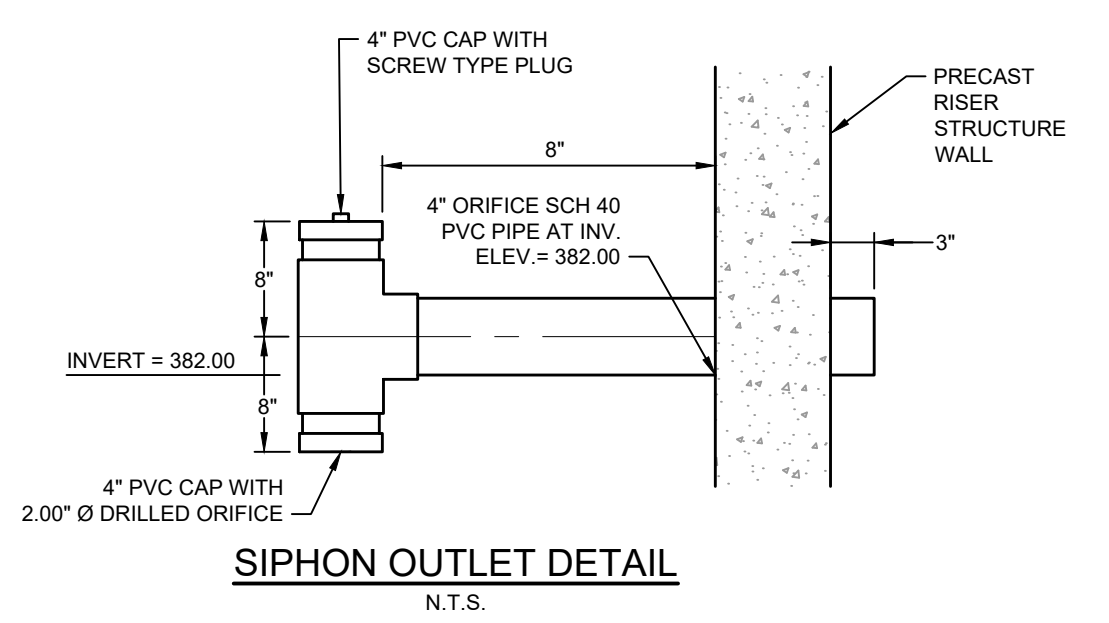
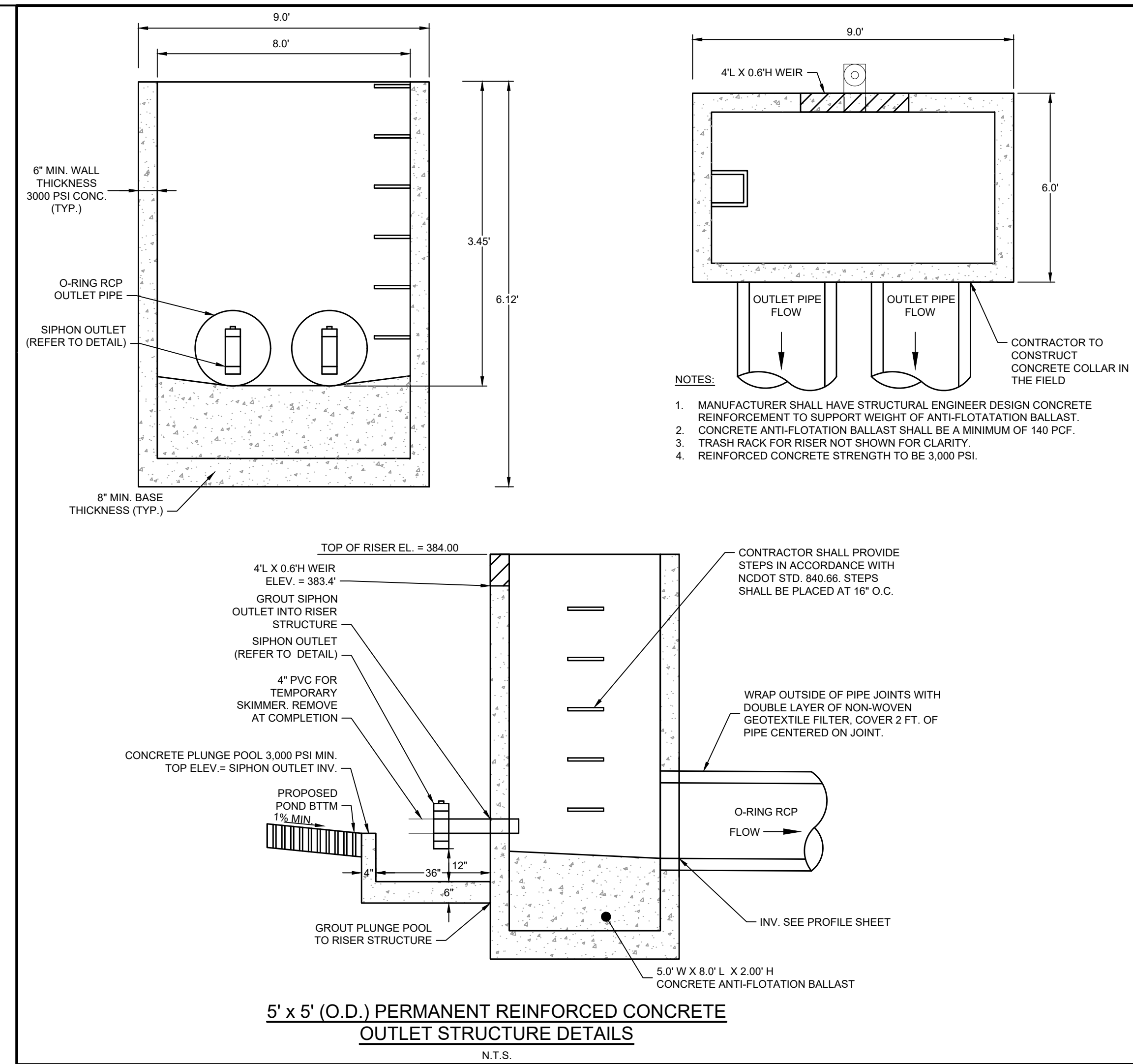
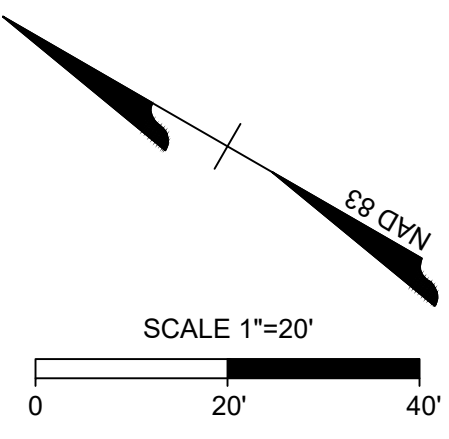
ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS



DRY POND PLAN VIEW



DRY POND PROFILE VIEW



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DATE	REVISION DESCRIPTION
06/24/2022	REVISIONS PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISIONS PER NCCDOT COMMENTS
09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021

R. WINGATE

P. BARBEAU

P. BARBEAU

SCALE AS SHOWN

**TIMMONS GROUP**

NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

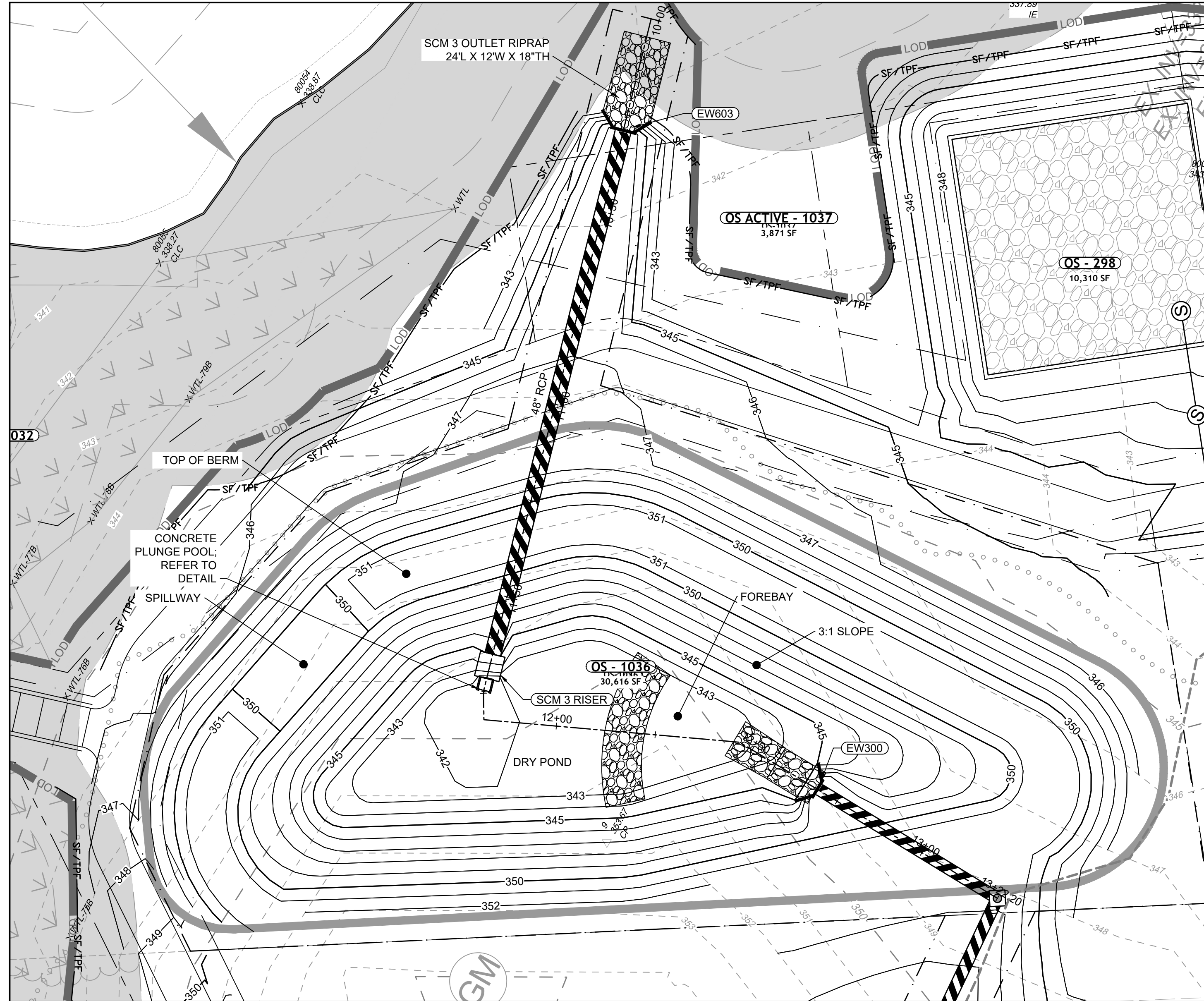
SCM 2 DETAILS

JOB NO. 43398

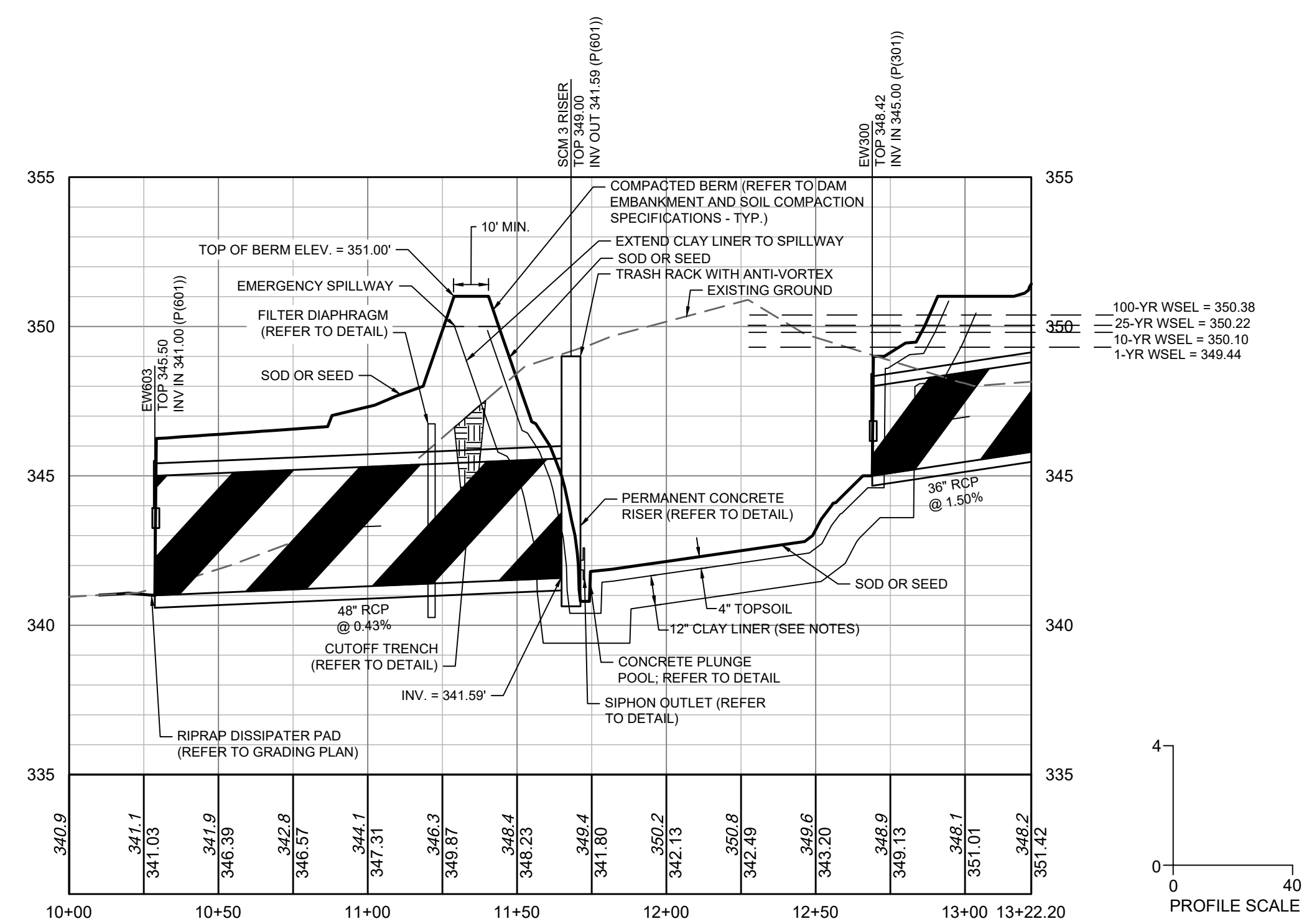
SHEET NO. C8.1

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

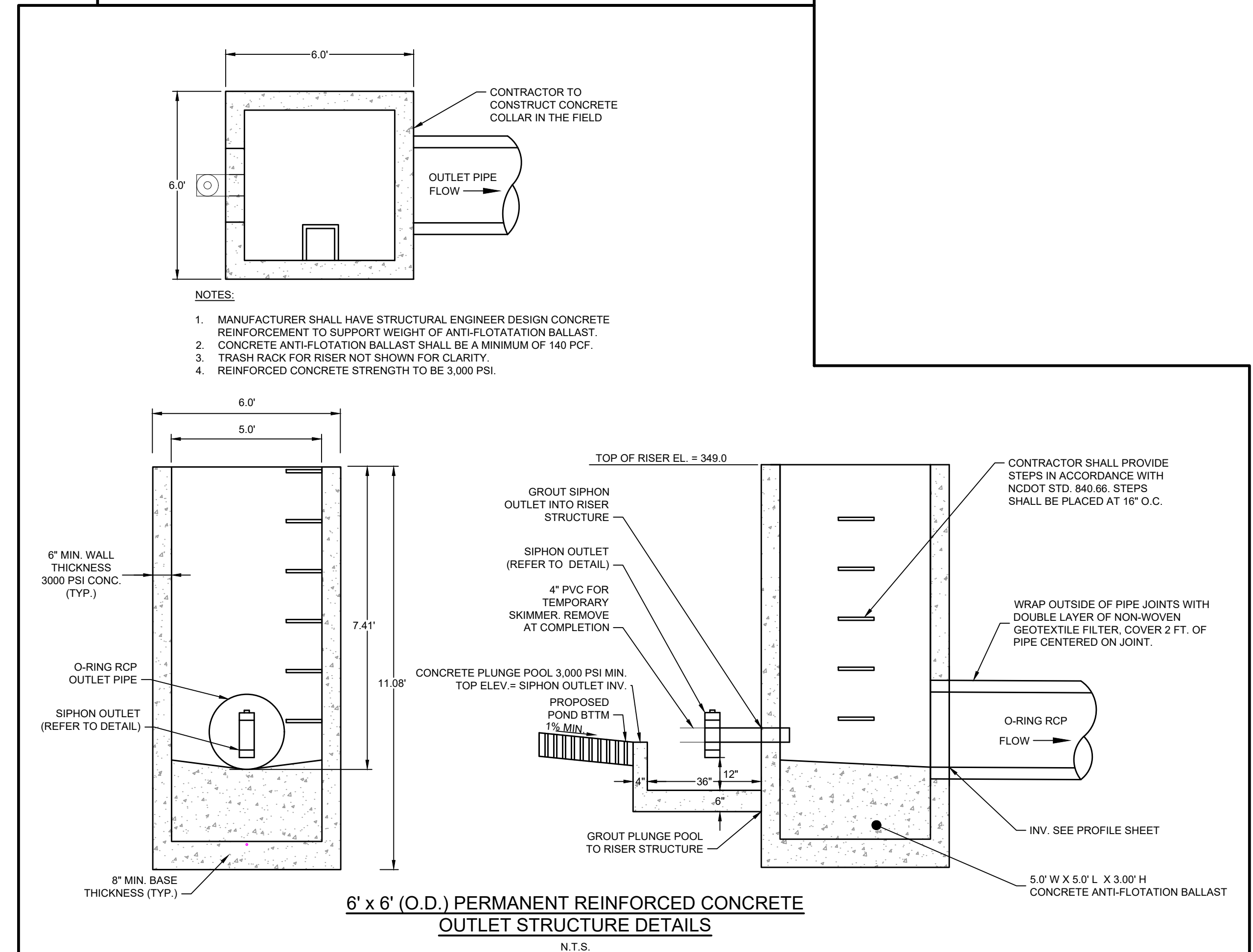
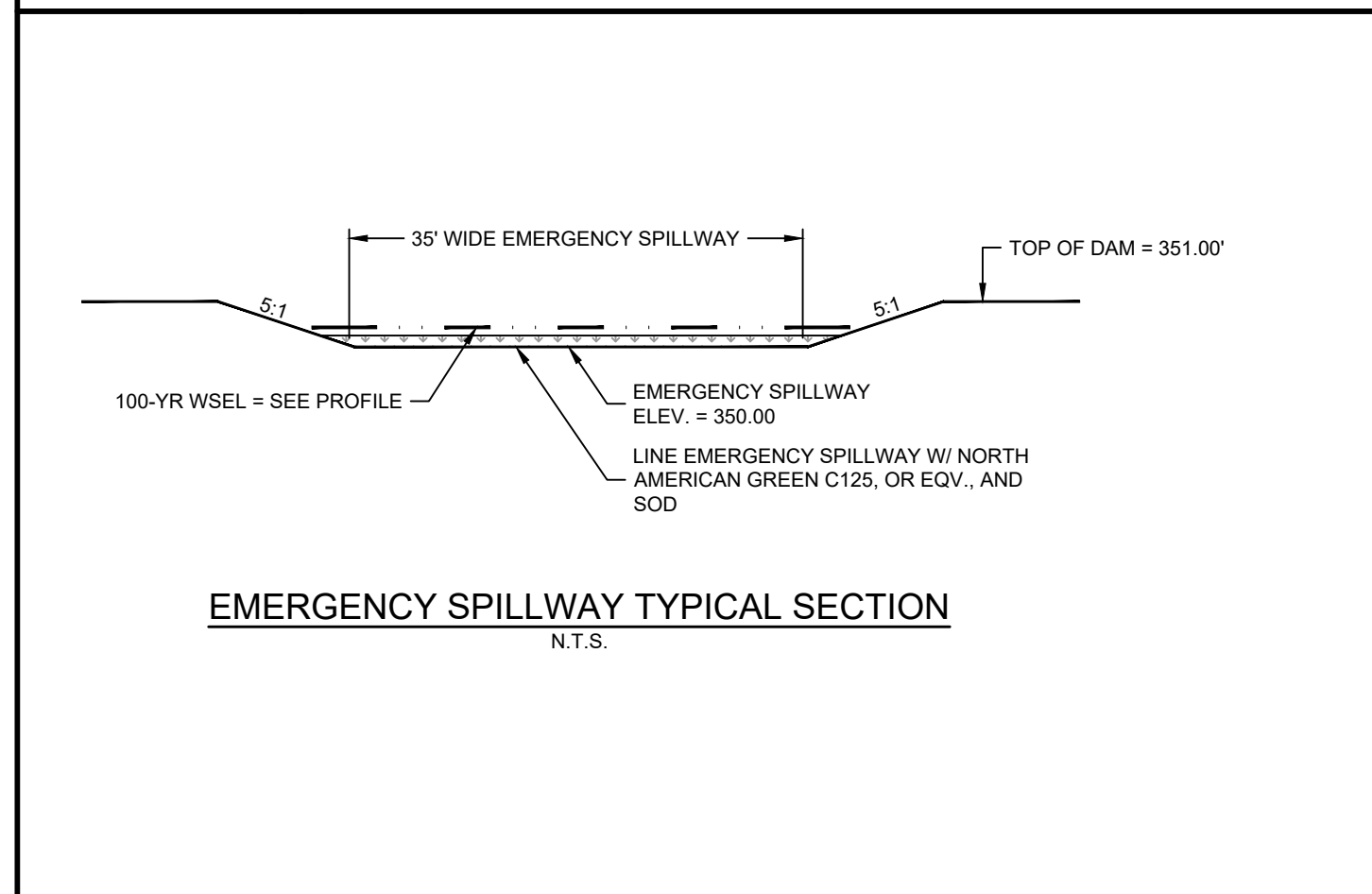
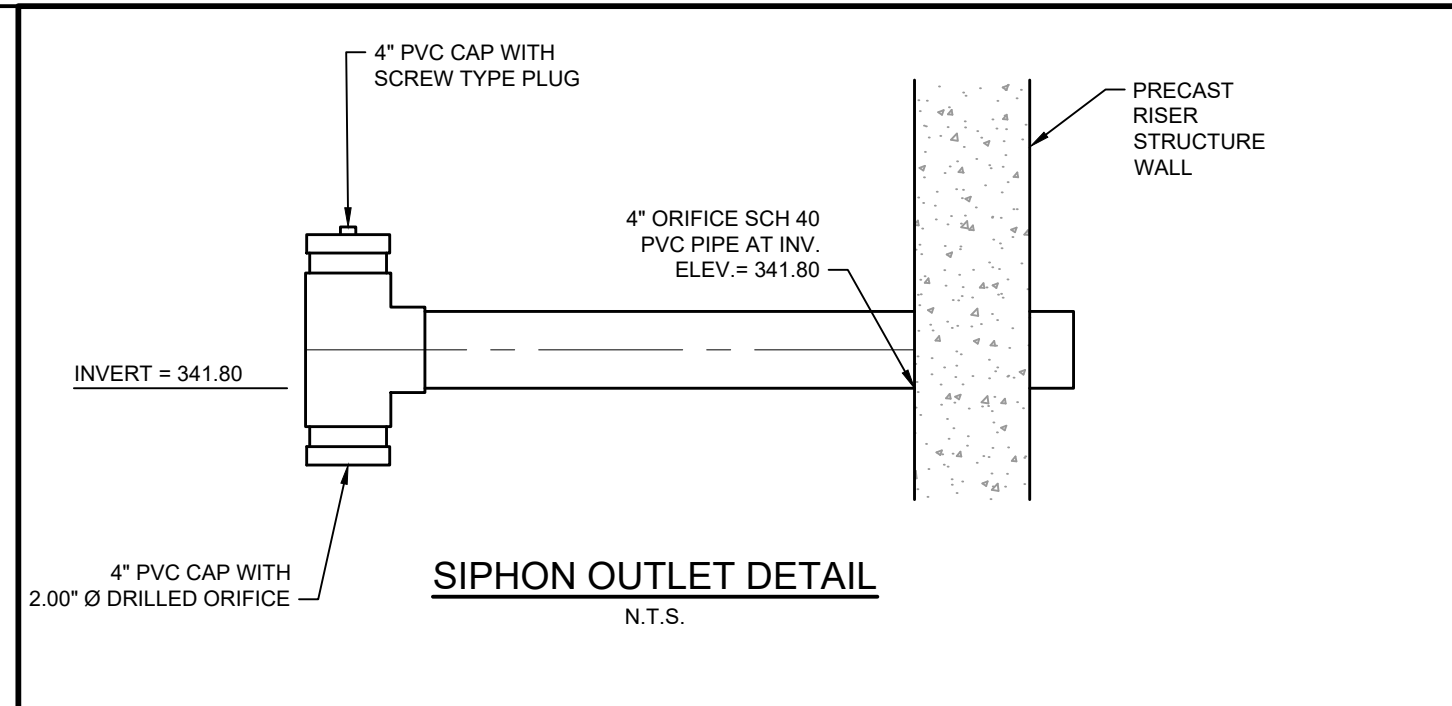
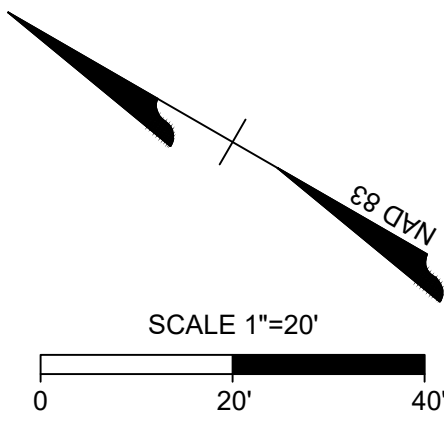
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DRY POND PLAN VIEW



DRY POND PROFILE VIEW



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DATE	REVISION DESCRIPTION
06/24/2022	REVISE PER WAKE COUNTY COMMENTS
07/22/2022	CONSTRUCTION DOCUMENT SUBMITTAL
04/06/2023	REVISE PER NC DOT COMMENTS
09/06/2023	REVISE PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISE TO APPROVED PLANS

09/17/2021  
 DRAWN BY  
**R. WINGATE**  
 DESIGNED BY  
**P. BARBEAU**  
 CHECKED BY  
**P. BARBEAU**  
 SCALE  
**AS SHOWN**

# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

## ROLESVILLE CROSSING - CD 21-08

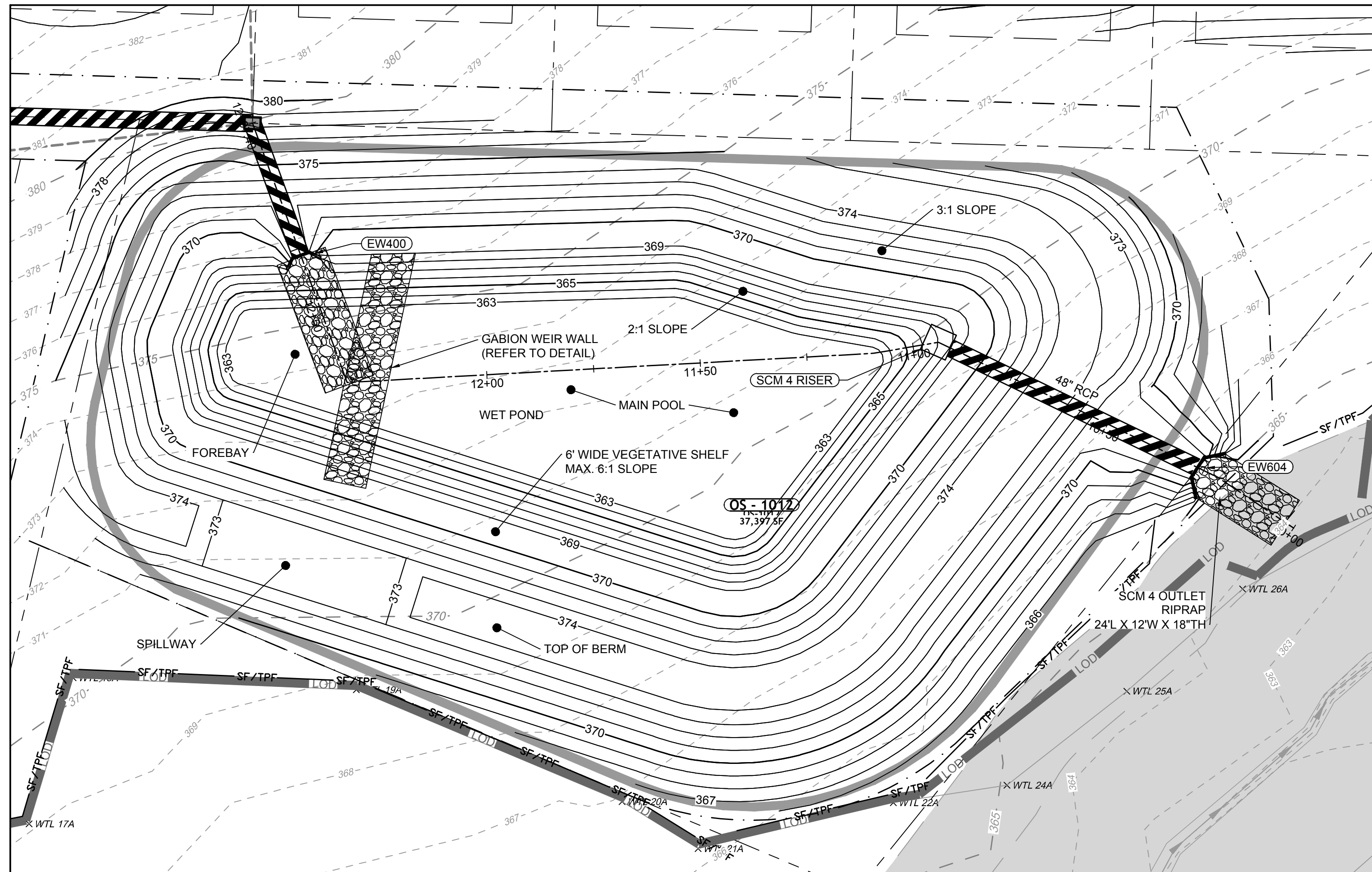
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

### SCM 3 DETAILS

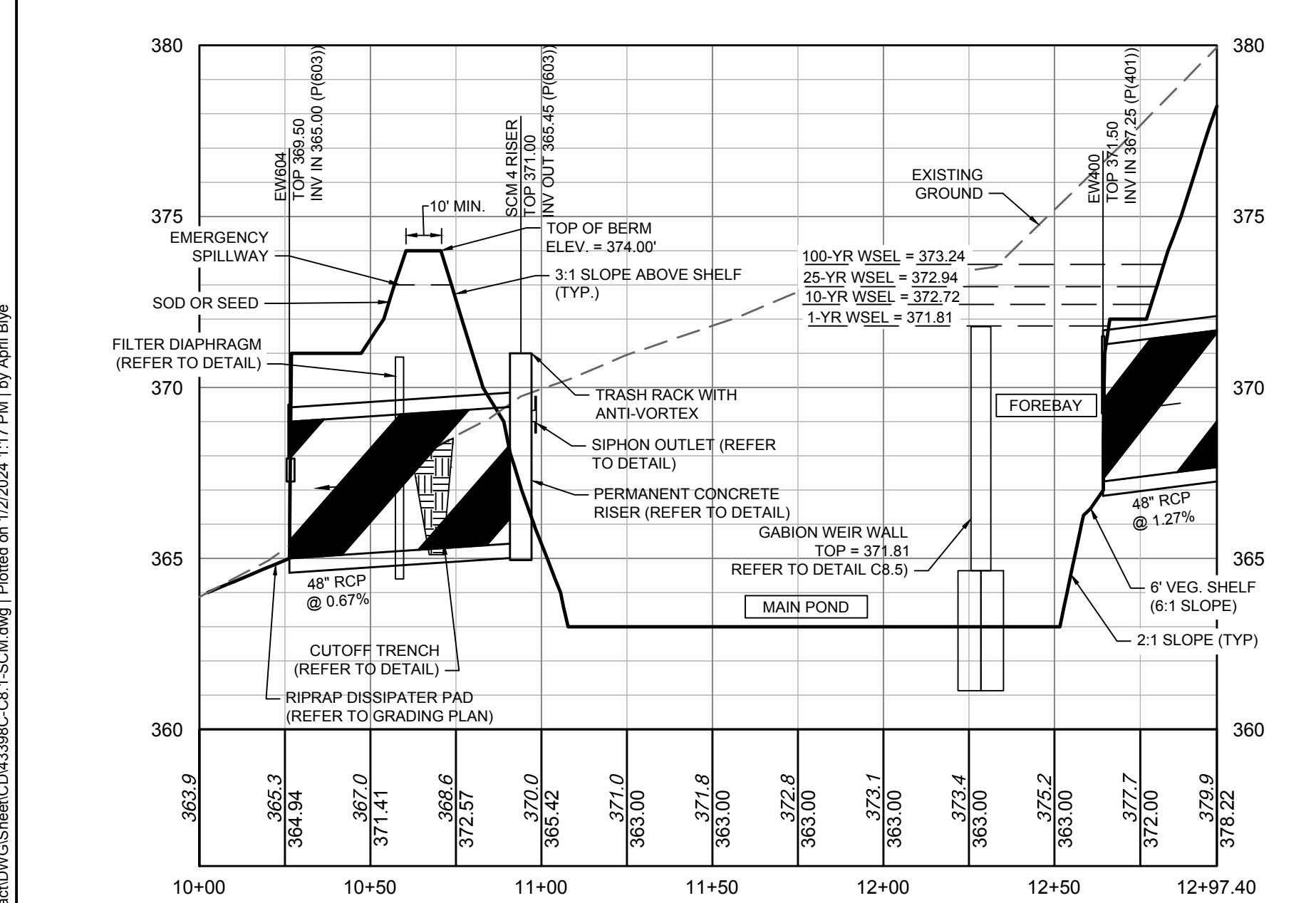
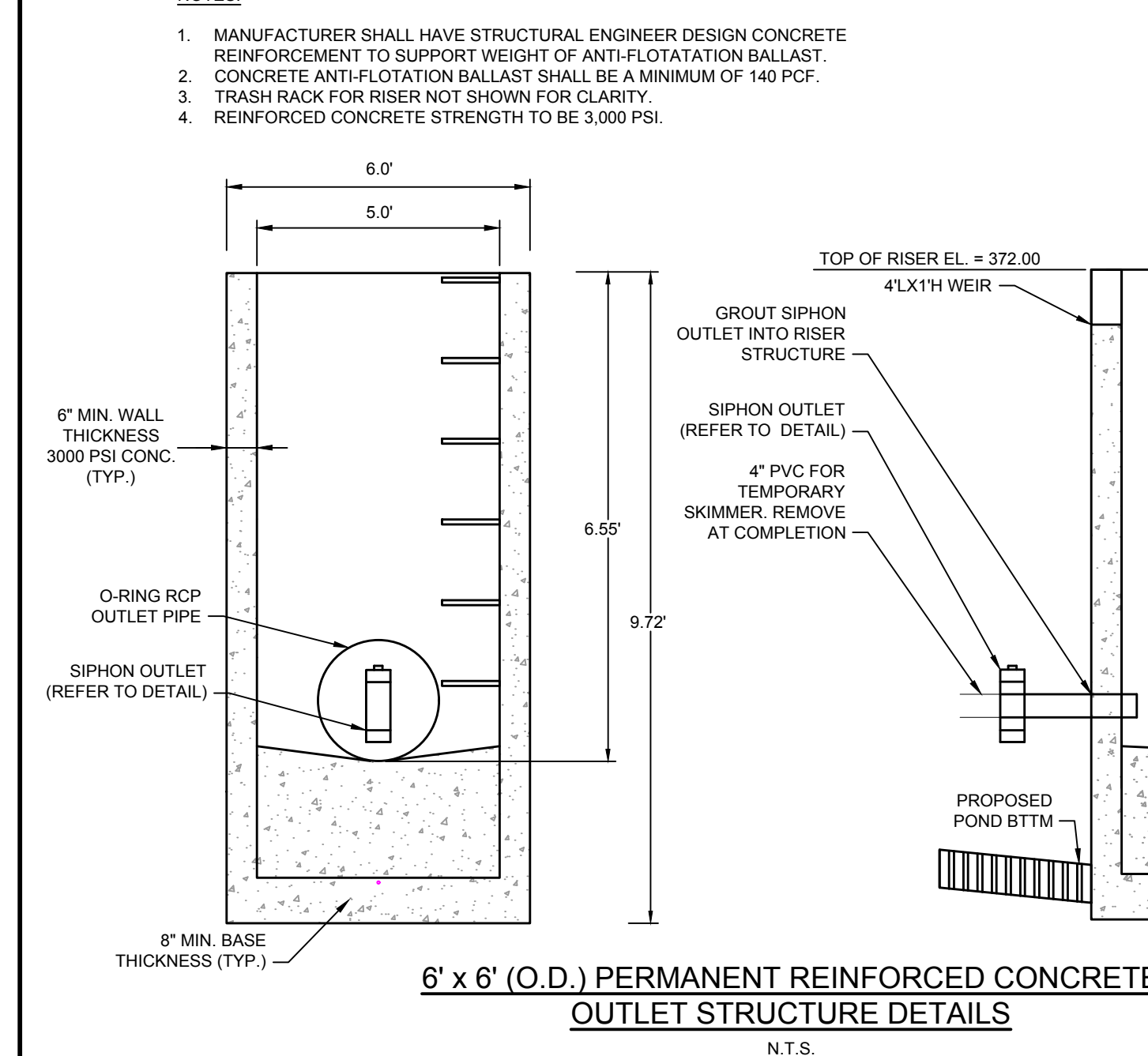
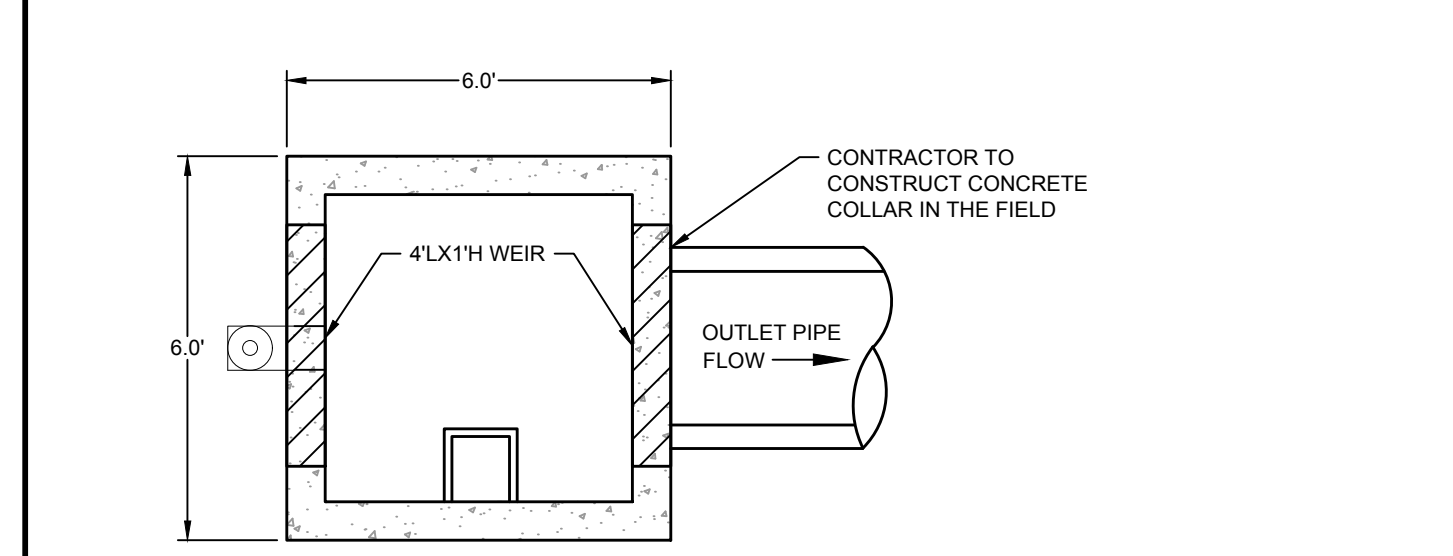
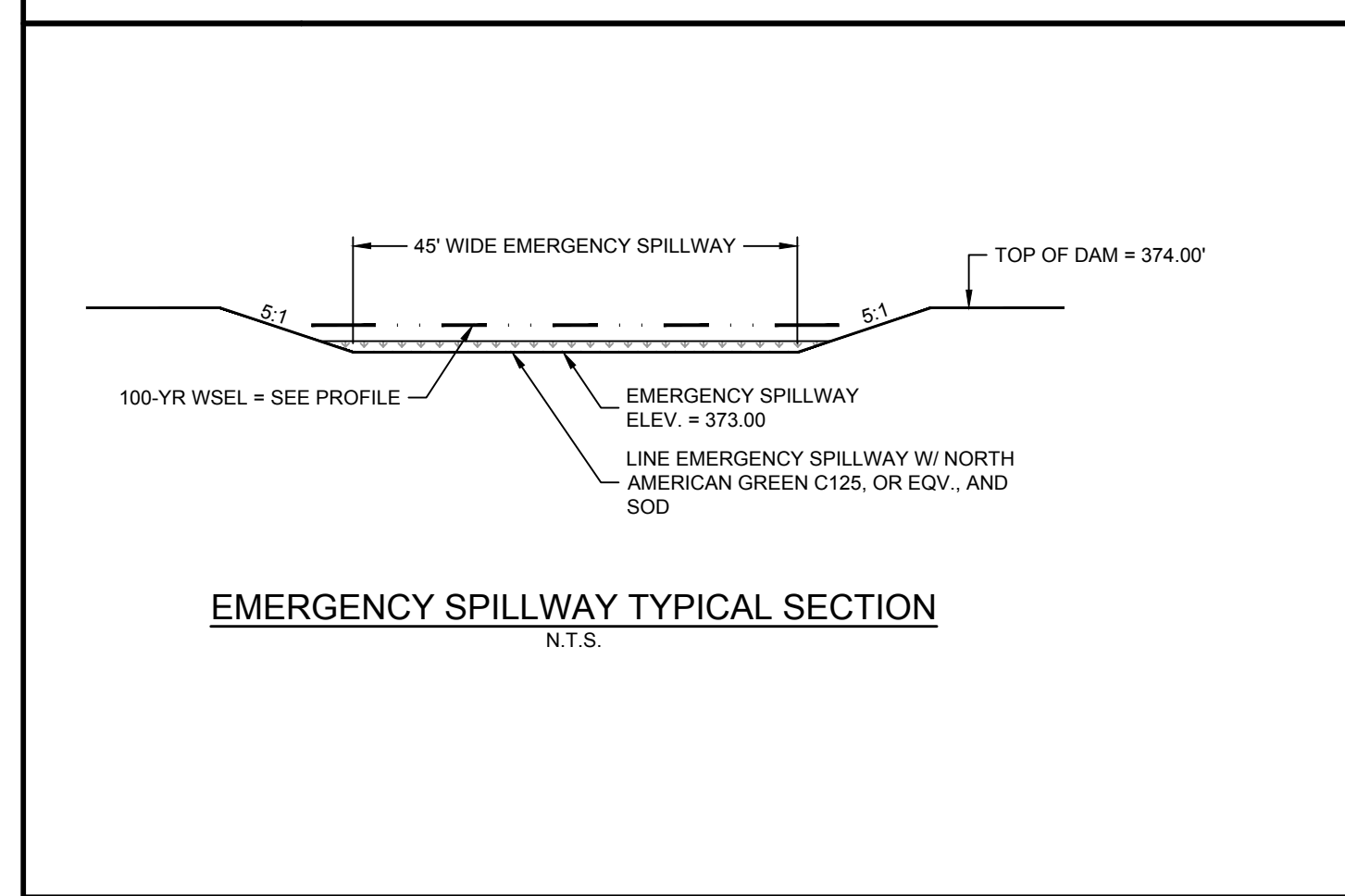
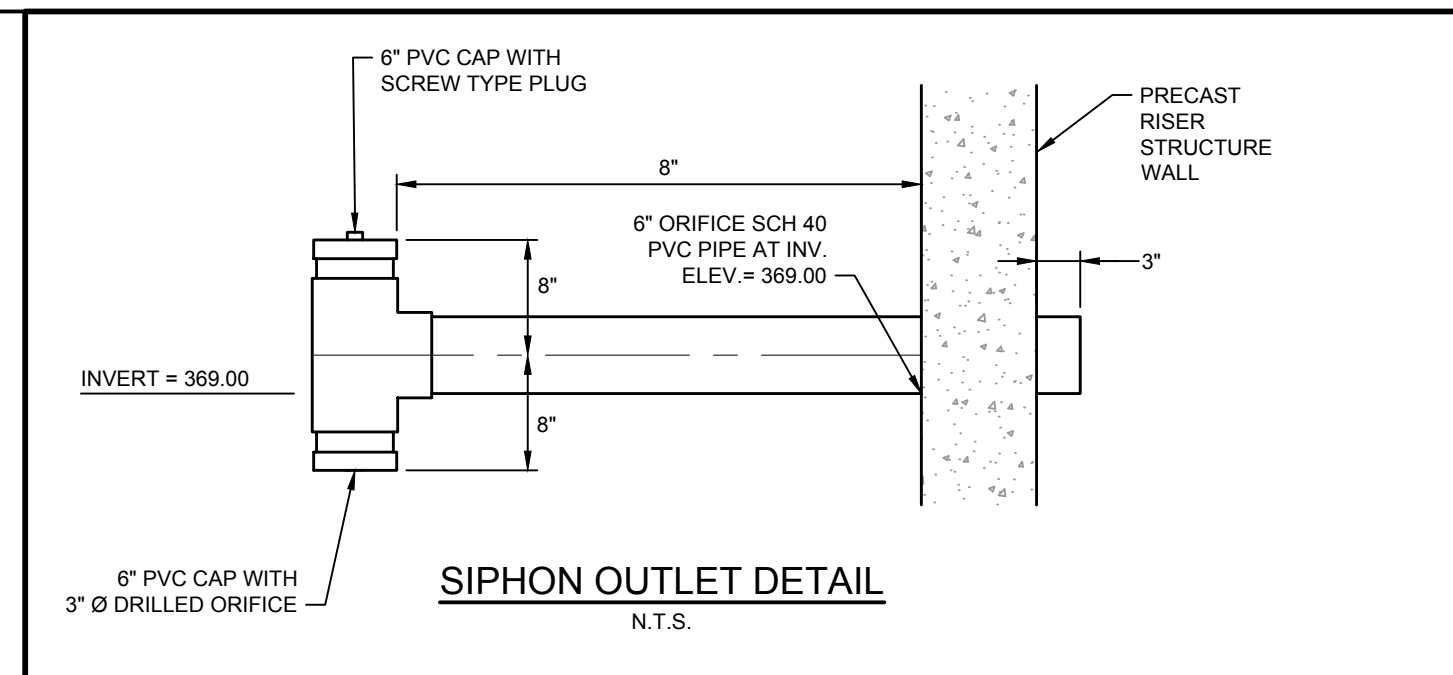
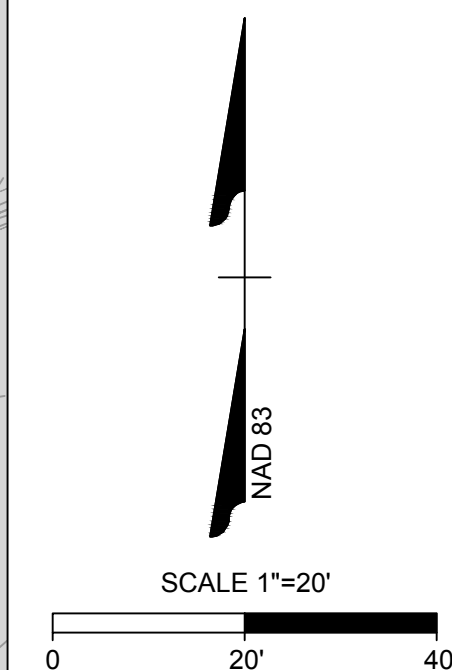
JOB NO.  
**43398**  
 SHEET NO.  
**C8.2**

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

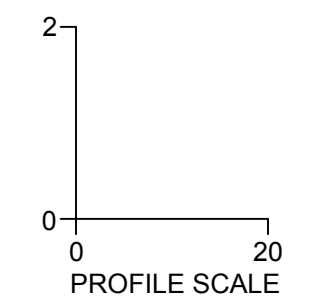
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WET POND PLAN VIEW



WET POND PROFILE VIEW



**POND VEGETATED SHELF PLANT LIST**

MINIMUM REQUIRED PLANT DENSITY = 50 PLANTS PER 200 SQUARE FEET OF VEGETATED SHELF (2,760 SF / 200 SF) \* 50 PLANTS = 690 MINIMUM PLANTS REQUIRED.

THE FOLLOWING PLANTS SHALL BE PLANTED ON THE 6-FOOT WIDE VEGETATED SHELF BETWEEN THE ELEVATIONS OF 369.0 - 370.0:

QTY	BOTANICAL NAME	COMMON NAME	SPACING	NOTES
115	EUPATORIADELPHUS FISTULOSUS	JOE PYE WEED	4' O.C.	PLANT IN GROUPS OF 5
115	LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	4' O.C.	PLANT IN GROUPS OF 5
115	LOBELIA CARDINALIS	CARDINAL FLOWER	4' O.C.	PLANT IN GROUPS OF 5
115	EUPATORIADELPHUS MACULATUS	SPOTTED TRUMPETWEED	4' O.C.	PLANT IN GROUPS OF 5
115	ASCLEPIAS INCARNATA	SWAMP MILKWEED	4' O.C.	PLANT IN GROUPS OF 5
115	SACCHARUM BALDWINII	NARROW PLUMEGRASS	4' O.C.	PLANT IN GROUPS OF 5

**NURSERY SOURCES:**  
 MELLOW MARSH FARM (919) 742-1200  
 CURE NURSERY (919) 542-6186

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 09/06/2023  
 01/02/2024

REVISION DESCRIPTION  
 REVISIONS PER WAKE COUNTY COMMENTS  
 CONSTRUCTION DOCUMENT SUBMITTAL  
 REVISIONS PER NCDOT COMMENTS  
 REVISIONS PER CITY OF RALEIGH COMMENTS  
 REVISIONS TO APPROVED PLANS

DATE: 09/17/2021

DRAWN BY: R. WINGATE

DESIGNED BY: P. BARBEAU

CHECKED BY: P. BARBEAU

SCALE: AS SHOWN

**TIMMONS GROUP**

NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

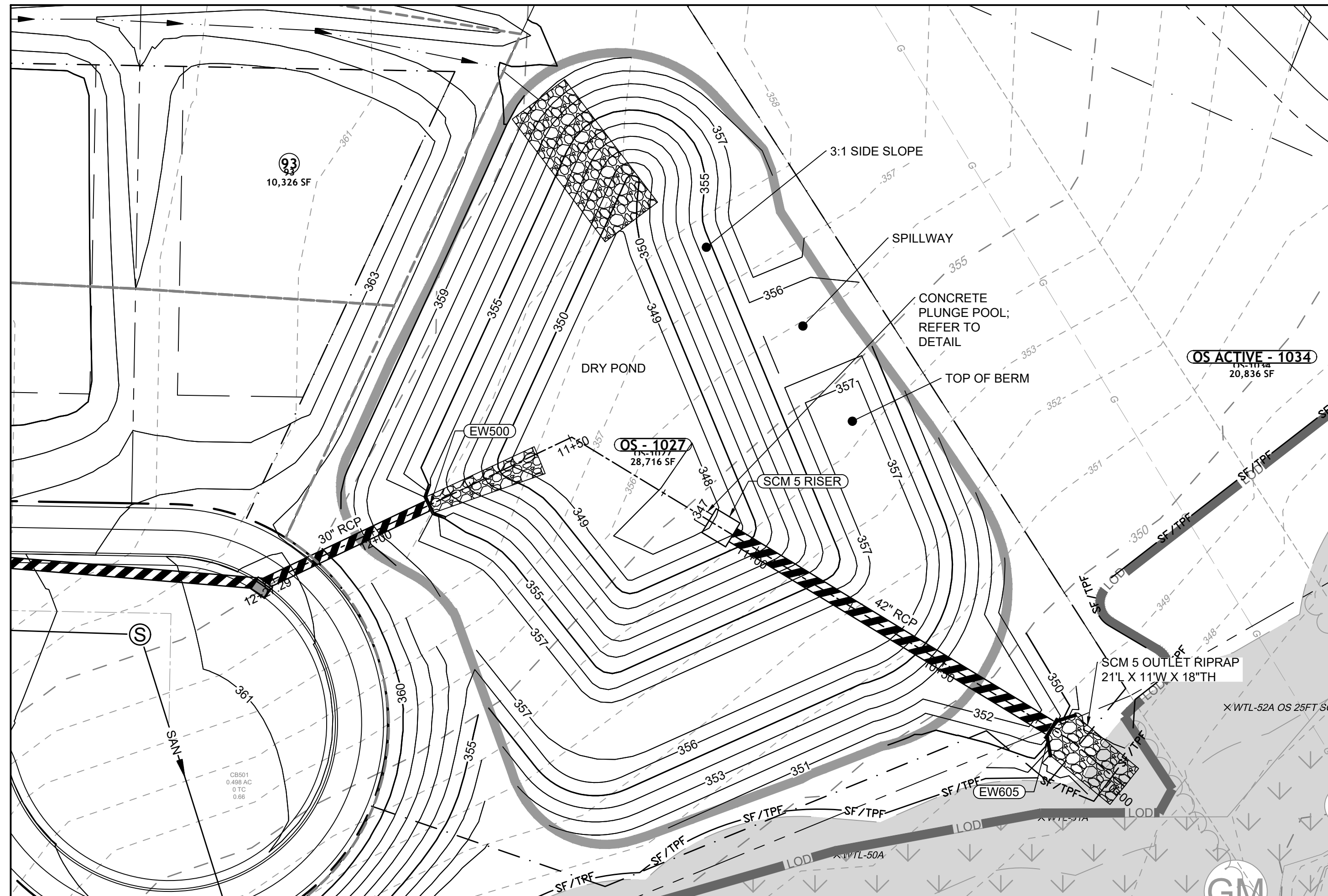
SCM 4 DETAILS

JOB NO. 43398

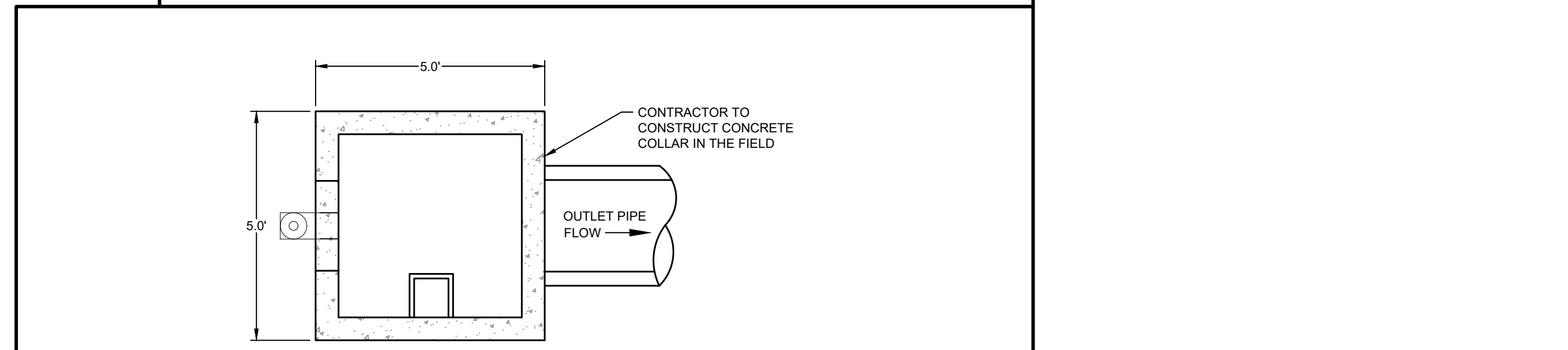
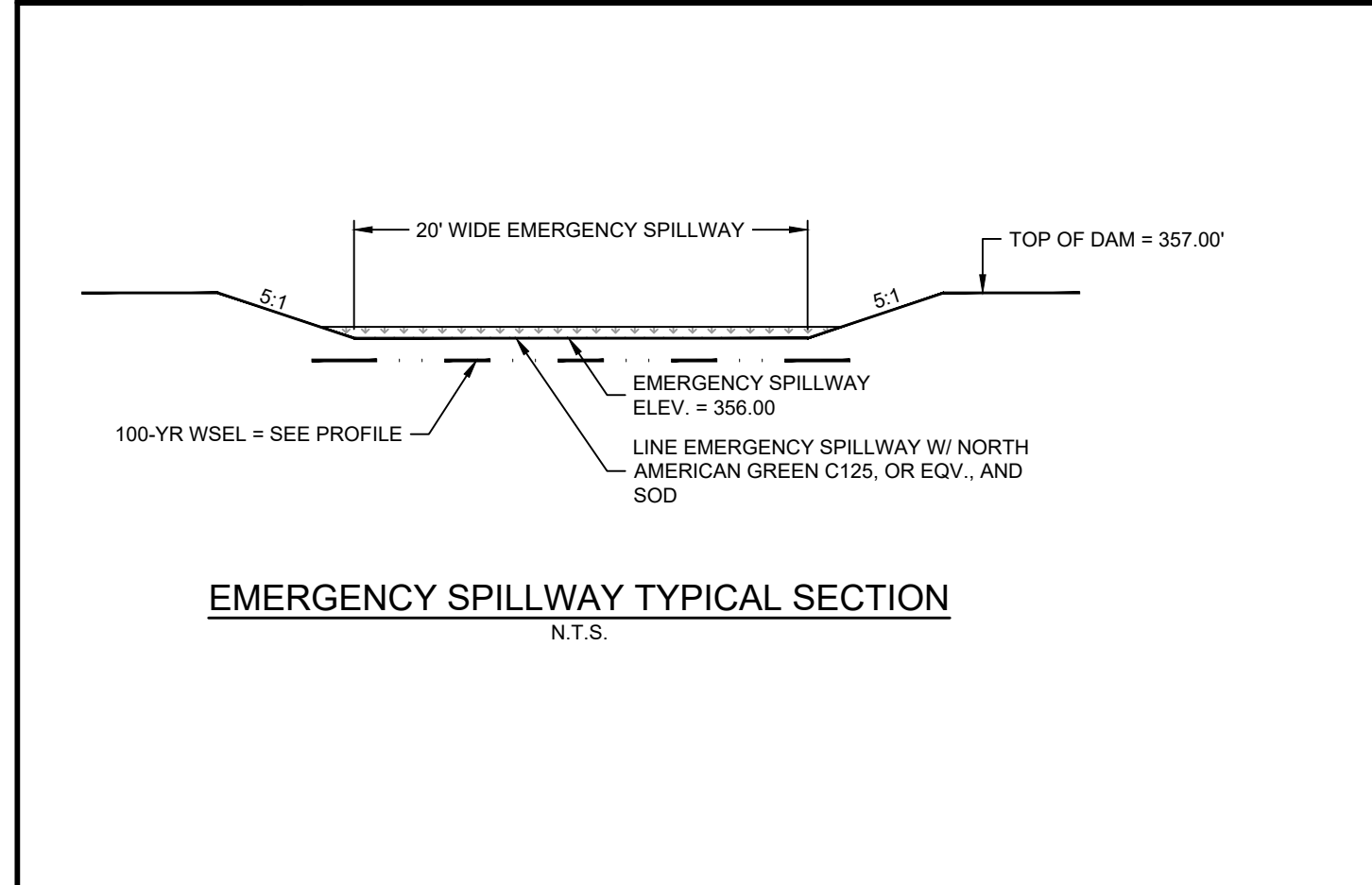
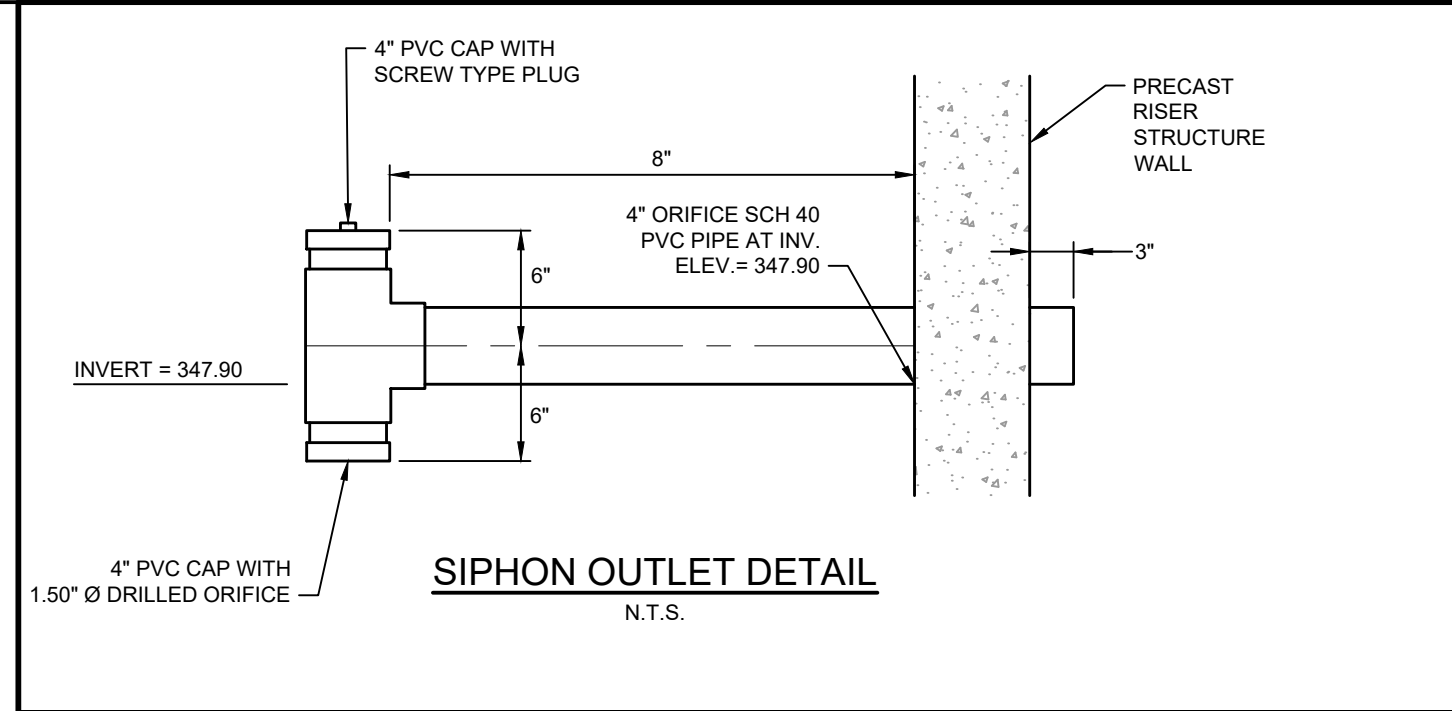
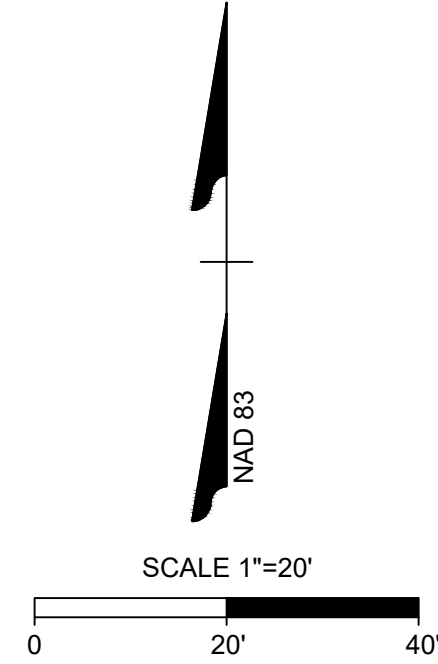
SHEET NO. C8.3

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

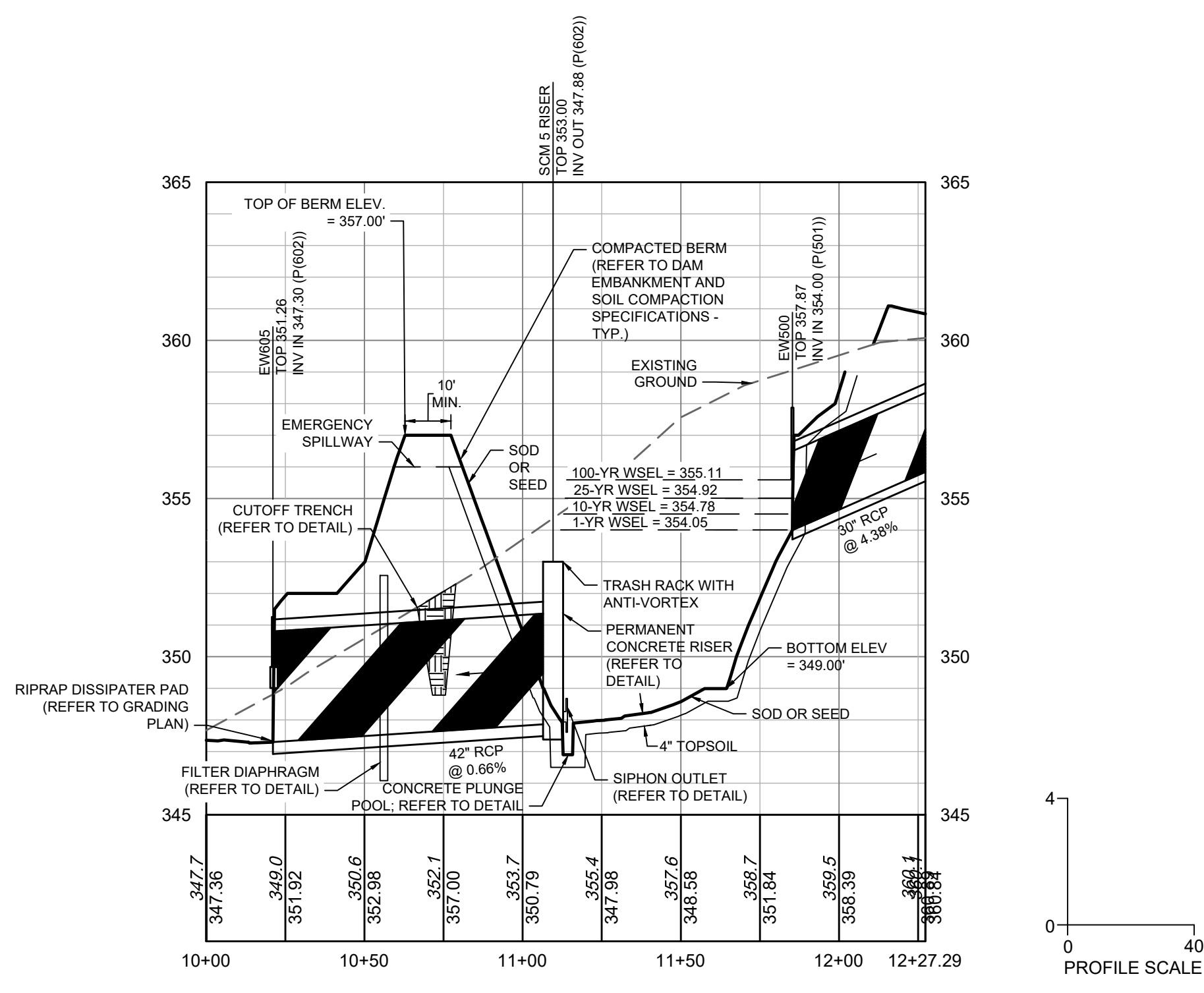
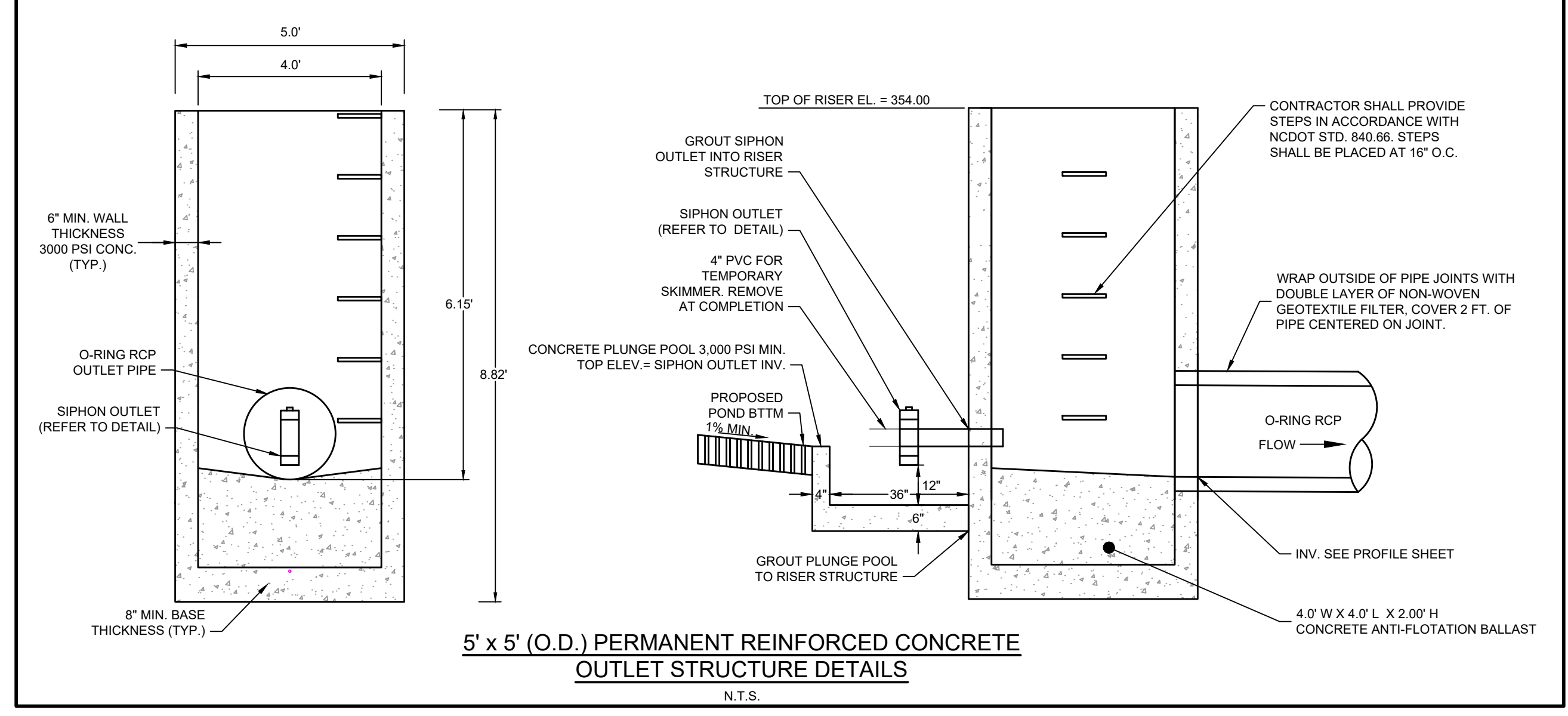
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DRY POND PLAN VIEW



- NOTES:
1. MANUFACTURER SHALL HAVE STRUCTURAL ENGINEER DESIGN CONCRETE REINFORCEMENT TO SUPPORT WEIGHT OF ANTI-FLOTATION BALLAST.
  2. CONCRETE ANTI-FLOTATION BALLAST SHALL BE A MINIMUM OF 140 PCF.
  3. TRASH RACK FOR RISER NOT SHOWN FOR CLARITY.
  4. REINFORCED CONCRETE STRENGTH TO BE 3,000 PSI.



DRY POND PROFILE VIEW



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09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021  
 DRAWN BY  
**R. WINGATE**  
 DESIGNED BY  
**P. BARBEAU**  
 CHECKED BY  
**P. BARBEAU**  
 SCALE  
**AS SHOWN**

**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652  
**ROLESVILLE CROSSING - CD 21-08**  
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**SCM 5 DETAILS**

JOB NO.  
**43398**  
 SHEET NO.  
**C8.4**

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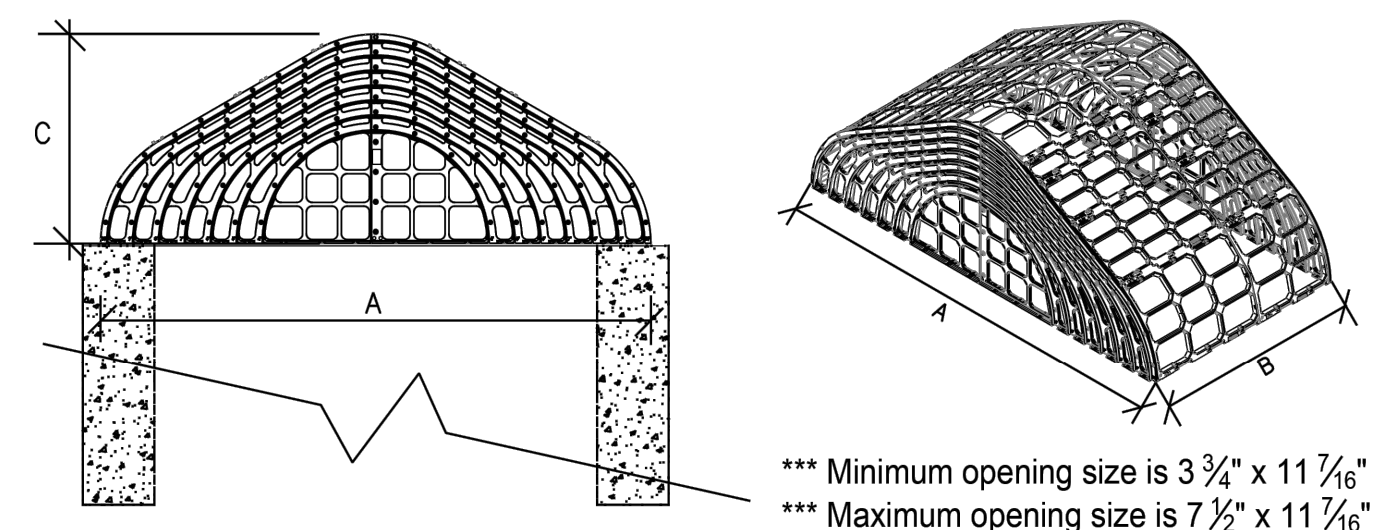
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TIMMONS GROUP NORTH CAROLINA LICENSE NO. C-1652 ROLESVILLE CROSSING - CD 21-08 WAKE COUNTY - NORTH CAROLINA SCM NOTES & DETAILS

JOB NO. 43398 SHEET NO. C8.5



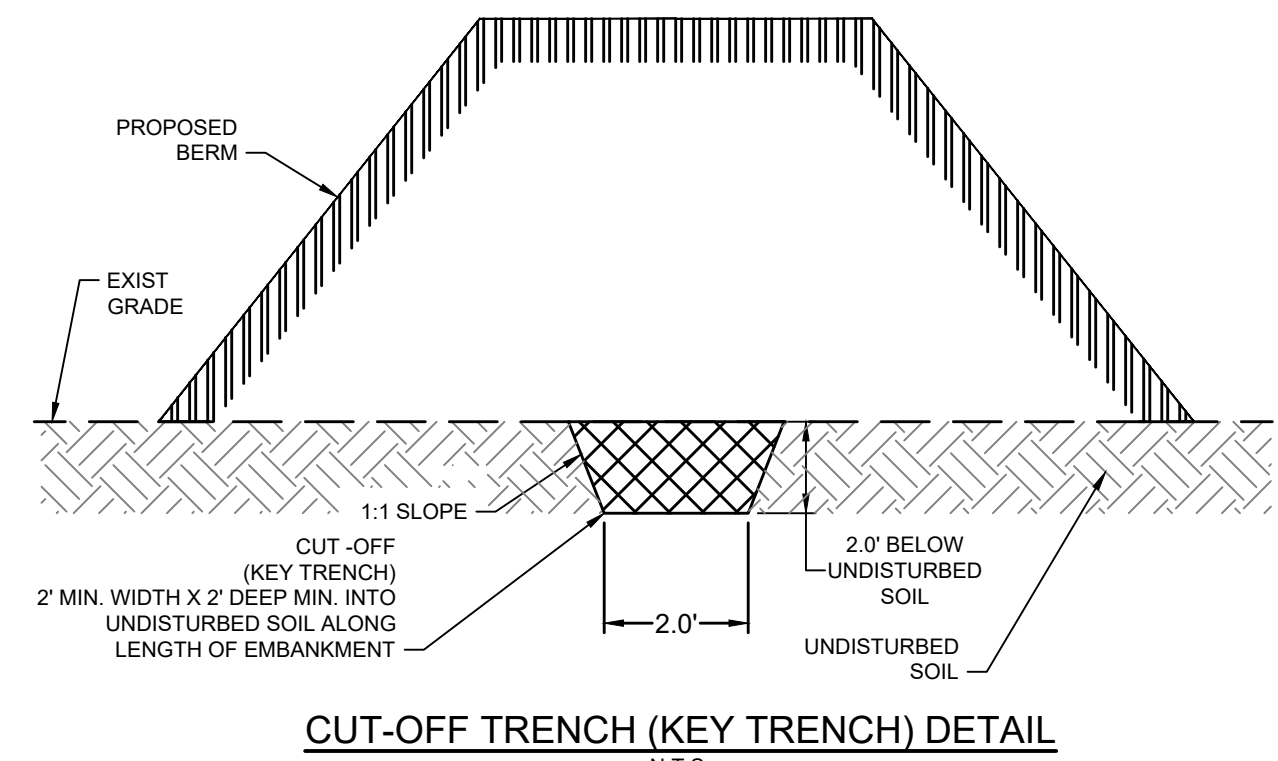
Available Options: Removable Access Hatch, HDPE Anti Vortex Plates, Additional Lengths Available. ALIGN ACCESS HATCH WITH STEPS.

Table with columns for Dimension Codes (A, B, C) and rows for Width A, Length B, Height C, and Peak Roof dimensions.

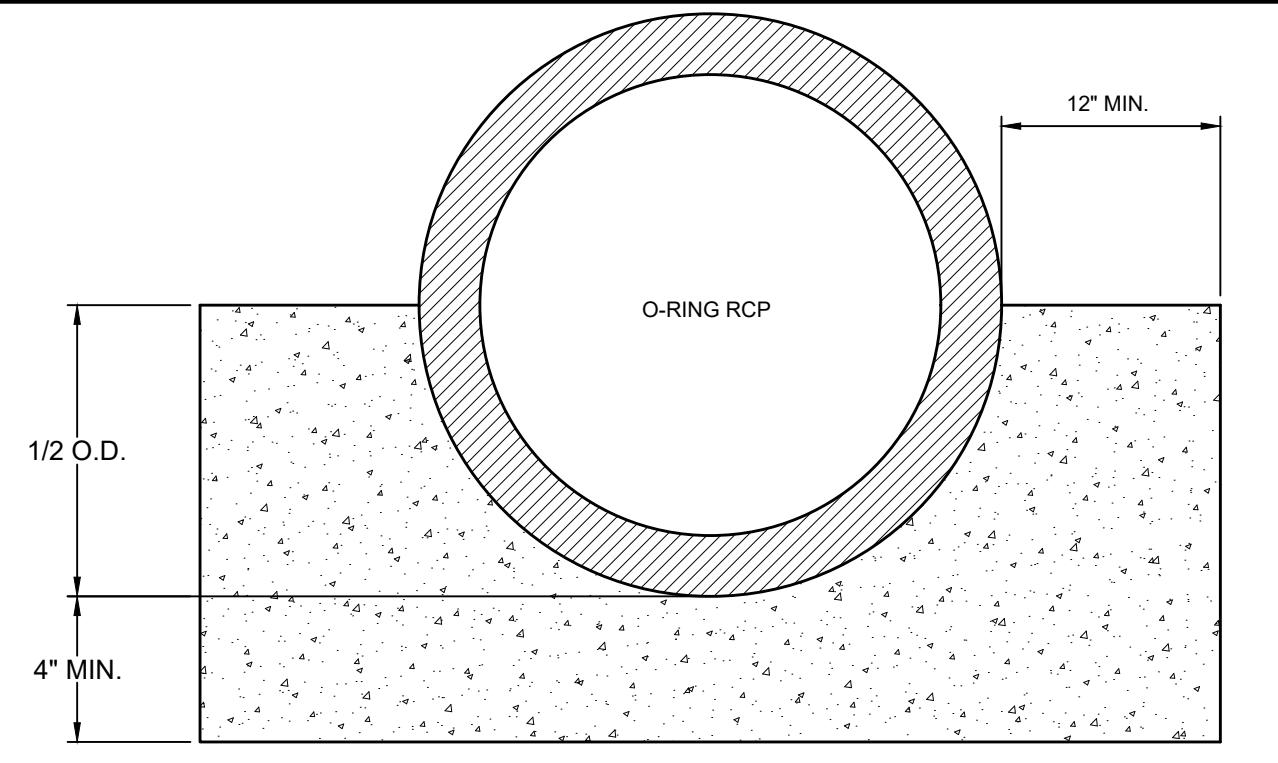
HOST STRUCTURE INFORMATION table with fields for STR. ID LENGTH (48"), STR. ID WIDTH (48"), WALL THICKNESS (REOD) (6").



CUSTOMER and PROJECT information fields.

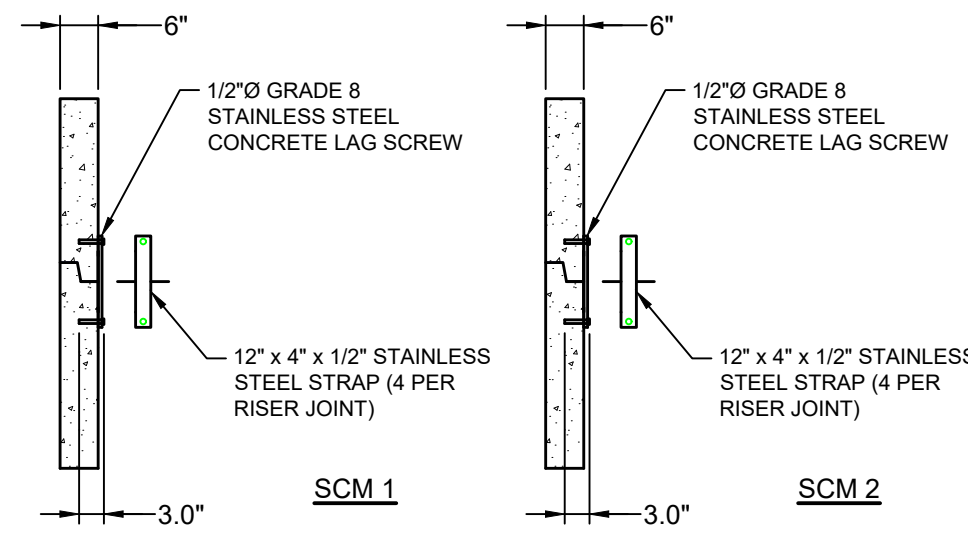


CUT-OFF TRENCH (KEY TRENCH) DETAIL N.T.S.

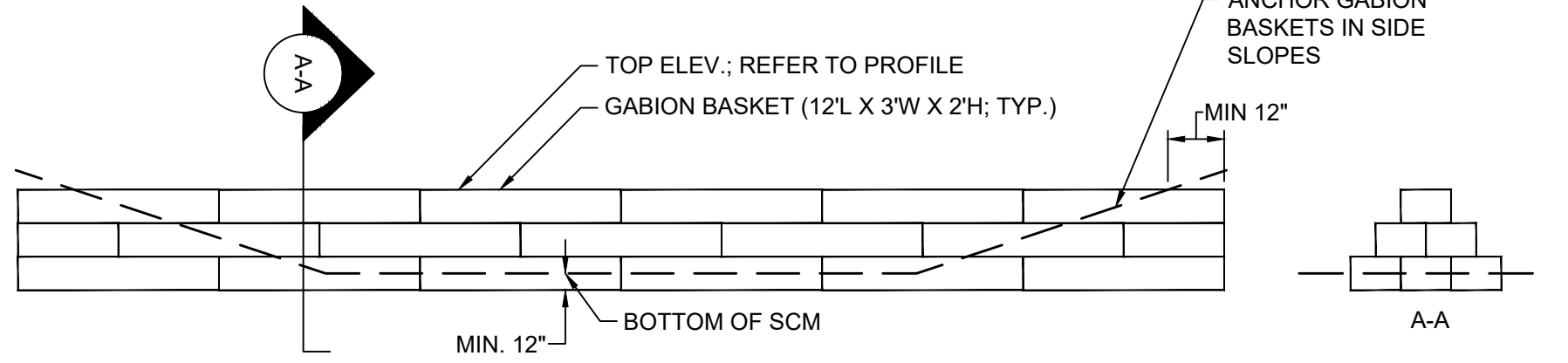


CONCRETE CRADLE DETAIL N.T.S.

- NOTES: 1. CONCRETE CRADLE SHALL ARTICULATE AT PIPE JOINTS. 2. CONCRETE STRENGTH TO BE AT LEAST 3,000 PSI. 3. NO FLOWABLE FILL ALLOWED.

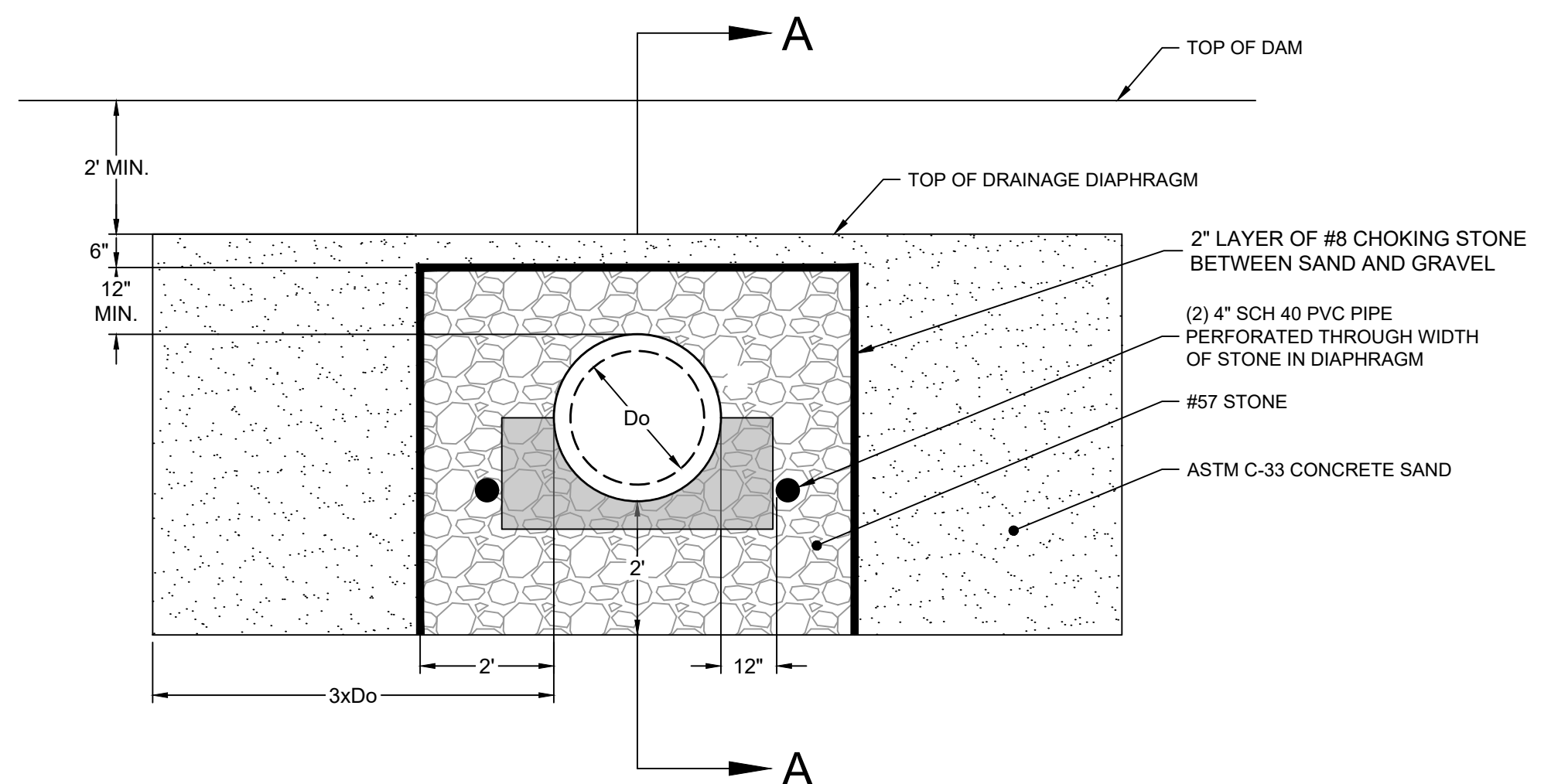


RISER JOINT CONNECTION DETAIL N.T.S.



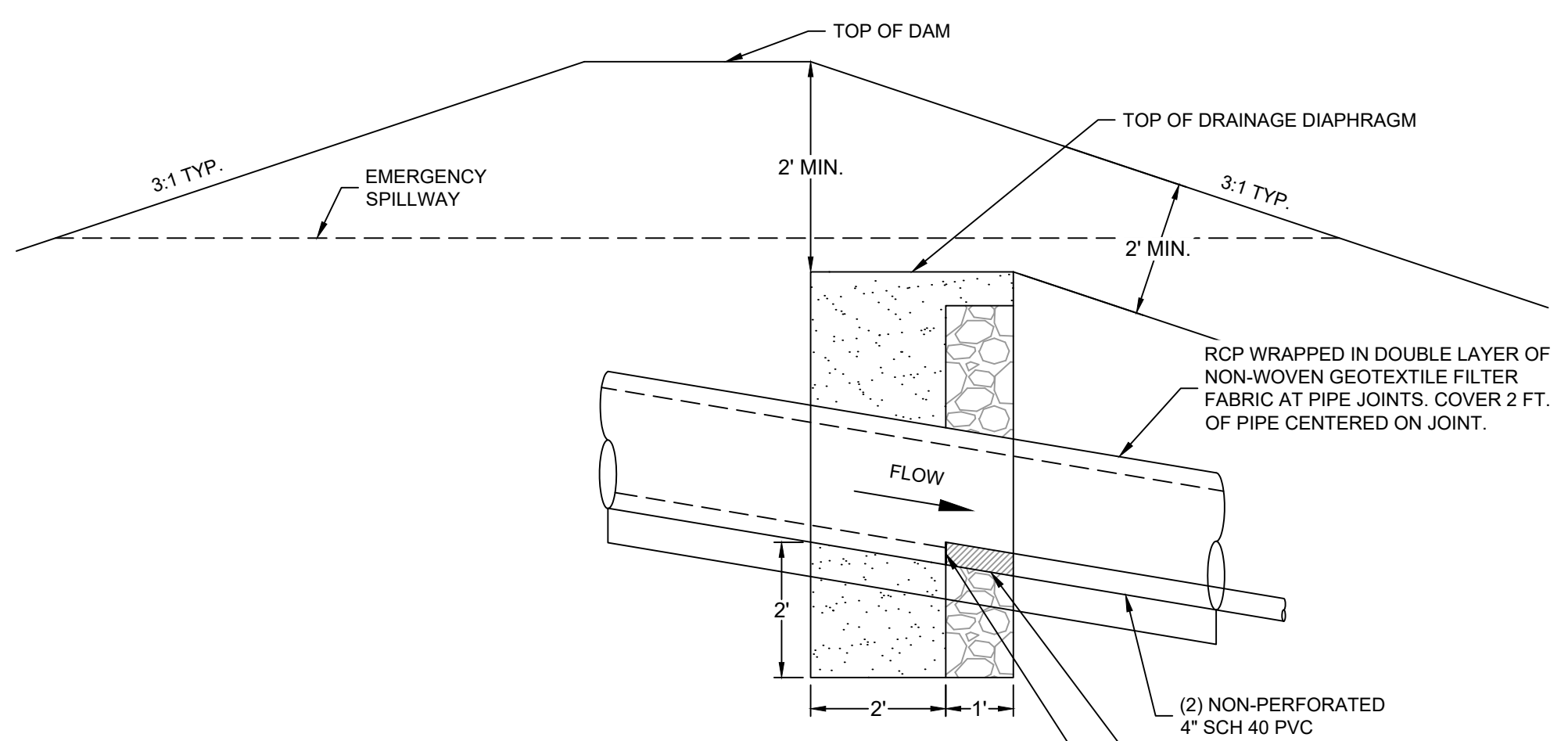
GABION WEIR DETAIL N.T.S.

- NOTES: BASKETS AND GABION ROCK ARE TO BE FREE OF DEBRIS AND SEDIMENT. GABION ROCK SHALL BE 4" TO 6" IN DIAMETER. ALL GABION BASKETS SHALL MEET OR EXCEED REQUIREMENTS OF ASTM A975-20. ALL GABION BASKETS SHALL BE SECURELY FASTENED TO ONE ANOTHER WITH LACING WIRE OR RING FASTENERS. INSTALLATION OF PREMANUFACTURED GABION BASKETS SHALL FOLLOW MANUFACTURER'S GUIDELINES.



DRAINAGE FILTER DIAPHRAGM DETAIL N.T.S.

- NOTE: 1. 4" DRAIN OUTLETS FOR DIAPHRAGM SHALL BE PROTECTED BY AN APPROPRIATE RODENT GUARD: 1/2" x 1/2" STAINLESS STEEL MESH SECURED WITH STAINLESS STEEL CLAMP OR APPROVED EQUAL. 2. JOINTS WRAPPED WITH DOUBLE LAYER OF NON-WOVEN GEOTEXTILE FILTER FABRIC ON OUTSIDE OF PIPE SHALL COVER 2 FEET OF PIPE CENTERED ON JOINT.



SECTION A-A

DRAINAGE FILTER DIAPHRAGM DETAIL N.T.S.

KEY TRENCH & CLAY LINER NOTES

- 1. THE ON-SITE GEOTECHNICAL ENGINEER SHALL INSPECT THE KEY TRENCH EXCAVATION PRIOR TO PLACEMENT OF ANY BACKFILL WITHIN THE KEY TRENCH. 2. THE CONTRACTOR WILL NEED TO INSTALL A CLAY LINER A MINIMUM OF 1-FOOT BELOW THE LOWEST GRADE. THE CLAY LINER SHALL BE AT LEAST 12" THICK AND MEET THE FOLLOWING SPECIFICATIONS: 2.1. UNIFIED SOIL CLASSIFICATION SYSTEM DESIGNATION OF CL, CH, ML. 2.2. MINIMUM PLASTICITY INDEX OF 12. 2.3. MINIMUM OF 2 TESTS OF EACH ABOVE PARAMETER SHALL BE COMPLETED BY THE CONTRACTOR ON THE LINER MATERIAL AND PRESENTED TO THE ON-SITE GEOTECHNICAL ENGINEER FOR APPROVAL. SHOULD THESE TESTS NOT MEET THE ABOVE REQUIREMENTS, THE ON-SITE GEOTECHNICAL ENGINEER MAY PROVIDE PERMEABILITY TESTING DEMONSTRATING AN INFILTRATION RATE OF NO MORE THAN 0.01 IN/HR. 2.4. COMPACTION TO A MINIMUM OF 95% PER ASTM D698 AND WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT (1 COMPACTION DENSITY TEST PER 2500 SQ. FT.). 2.5. MAXIMUM INFILTRATION RATE OF 0.01 IN/HR. IF IT IS DETERMINED BY THE ON-SITE GEOTECHNICAL ENGINEER THAT A LINER IS NOT NEEDED, THEN A LETTER TO THE DESIGN ENGINEER CERTIFYING THE INFILTRATION RATE SHALL BE PROVIDED, WHICH WILL BE USED DURING THE AS-BUILT CERTIFICATION PROCESS. 3. THE GRADES SHOWN ON THIS PLAN ARE FINISHED GRADES AND INCLUDE THE CLAY LINER.

WET POND CONSTRUCTION SEQUENCE:

- 1. DO NOT BEGIN CONSTRUCTION OF WET POND AREAS UNTIL SITE CONSTRUCTION IS COMPLETE, ALL PARKING SURFACES ARE PAVED, AND THE ENTIRE SITE HAS AN ESTABLISHED WITH A GOOD STAND OF GRASS. 2. ALL EROSION SEDIMENT AND EROSION CONTROL PRACTICES SHALL BE IN PLACE AND THE SLOPES DRAINING TO THE WET POND AREA SHALL BE STABILIZED BEFORE CONSTRUCTION OF THE BIORETENTION BEGINS. 3. INSTALL TEMPORARY SILT FENCE AROUND THE WET POND AREA AS NEEDED. 4. EXCAVATE WET POND AREA, PER THE GRADES AND DETAILED ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS. 5. CONTACT ENGINEER SO AN AS-BUILT SURVEY CAN BE PERFORMED OF THE WET POND. 6. INSTALL ANY REMAINING STORM DRAINAGE PIPES AND INLETS. 7. FINE GRADE THE SIDE SLOPES OF THE WET POND AREA. DRESS UP VELOCITY DISSIPATOR AS NEEDED PER THE PLANS. 8. INSTALL GRASS PER GRASS SPECIFICATIONS. 9. PLANT ALL PROPOSED VEGETATION PER WET POND PLANTING PLAN. CONTACT THE PROJECT LANDSCAPE ARCHITECT TO COORDINATE AS NEEDED. 10. FINE GRADE, SEED AND STABILIZE ANY REMAINING DISTURBED AREAS AROUND THE OUTSIDE OF THE WET POND AREA. REMOVE SILT FENCE. 11. UPON COMPLETION OF WORK, CONTACT THE PROJECT ENGINEER AND LANDSCAPE ARCHITECT FOR AN INSPECTION AND TO BEGIN THE AS-BUILT CERTIFICATION PROCESS. AN AS-BUILT SURVEY OF ALL ASPECTS OF THIS FACILITY WILL BE PERFORMED BY THE ENGINEER. CERTIFICATIONS WILL NOT BE ISSUED IF THE SCM DOES NOT MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CONSTRUCTION DOCUMENTS. SHOULD REMEDIAL WORK BE REQUIRED, ALL COSTS ASSOCIATED WITH THE REMEDIAL WORK INCLUDING RE-SURVEY AND RE-INSPECTIONS WILL BE BORNE BY THE CONTRACTOR.

DAM EMBANKMENT AND SOIL COMPACTION SPECIFICATIONS

- 1. CONTROLLED FILL, AS SPECIFIED BY THE GEOTECHNICAL ENGINEER, IN THE DAM EMBANKMENT (KEY TRENCH SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INCH LOOSE LAYERS WITHIN 5-FEET OF EITHER SIDE OF THE PRINCIPAL SPILLWAY PIPE TO A DEPTH OF 2-FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. 2. ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL PRIOR TO COMPACTION TO THE REQUIRED DENSITY. SOILS WITH ORGANIC MATTER CONTENT EXCEEDING 5% BY WEIGHT SHALL NOT BE USED. STONES GREATER THAN 3-INCH (IN ANY DIRECTION) SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTION. 3. FILL MATERIAL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITIES OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS. 4. ANY FILL LAYER THAT IS SMOOTH DRUM ROLLED TO REDUCE MOISTURE PENETRATION DURING A STORM EVENT SHALL BE PROPERLY SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT SOIL LIFT. 5. SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT CONSTRUCTION AND THE PLACEMENT OF CONTROLLED FILL. 6. FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE ANY PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE. 7. TREATMENT OF SEEPAGE AREAS, SUBGRADE PREPARATION, FOUNDATION DEWATERING AND ROCK FOUNDATION PREPARATION (I.E., TREATMENT WITH SLUSH GROUTING, DENTAL CONCRETE, ETC.) MAY BE REQUIRED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER. ALL SUCH ACTIVITIES SHALL BE CLOSELY MONITORED AND DOCUMENTED BY THE GEOTECHNICAL ENGINEER. 8. FILL ADJACENT TO THE RISER AND PRINCIPAL SPILLWAY PIPE SHALL BE PLACED SO THAT LIFTS ARE AT THE SAME LEVEL ON BOTH SIDES OF THE STRUCTURES. 9. EARTHWORK COMPACTION WITHIN 3-FEET OF ANY STRUCTURES SHALL BE ACCOMPLISHED BY MEANS OF HAND TAMPERS, MANUALLY DIRECTED POWER TAMPERS OR PLATE COMPACTORS OR MINIATURE SELF-PROPELLED ROLLERS. 10. COMPACTION BY MEANS OF DROP WEIGHTS FROM A CRANE OR HOIST SHALL NOT BE PERMITTED.

- 11. HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER CAST-IN-PLACE STRUCTURES (INCLUDING THE CRADLE) UNTIL ADEQUATE CURING TIME HAS ELAPSED. 12. TO RE-ESTABLISH VEGETATION AFTER CONSTRUCTION, A 4-INCH LAYER OF TOPSOIL SHALL BE PLACED ON THE DISTURBED EMBANKMENT SURFACE AND THE AREA SEEDED AND MULCHED OR HYDROSEEDED.

TESTING, OBSERVATION, AND CERTIFICATION

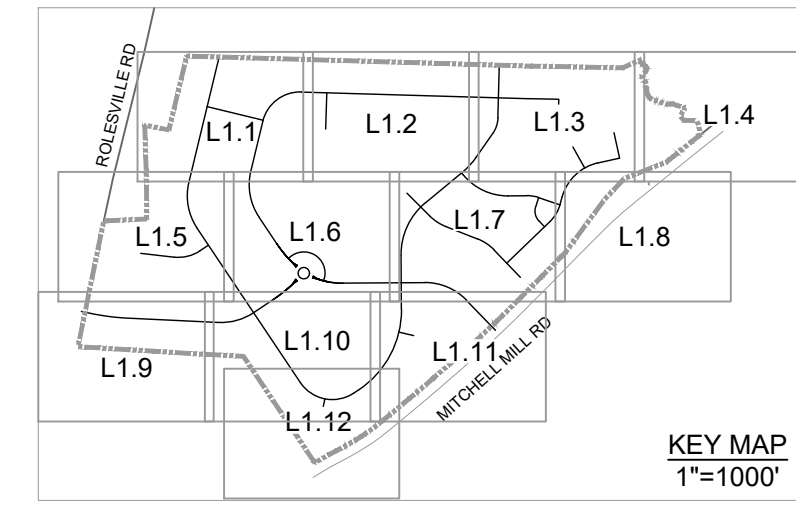
- 1. TESTS OF THE DEGREE (%) OF COMPACTION OF THE PLACED FILL IN THE DAM (KEY TRENCH SHALL BE PERFORMED AS A PART OF THE PERMITTEE'S NORMAL QUALITY CONTROL PROGRAM FOR THE CONSTRUCTION OF THE DAM. TESTS SHALL BE CONDUCTED CONCURRENT WITH THE INSTALLATION OF THE COMPACTED FILL AND THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF THE DAM SO THAT THE TESTING CAN BE COMPLETED. SHOULD THE RESULTS OF THE TESTS INDICATE THAT THE SPECIFIED DEGREE OF COMPACTION HAS NOT BEEN OBTAINED, THE PORTIONS OF THE DAM REPRESENTED BY SUCH TESTS SHALL BE REWORKED OR REBUILT. ALL PORTIONS OF THE DAM SHALL ACHIEVE THE SPECIFIED MINIMUM DEGREE OF COMPACTION. 2. CONSTRUCTION OF CLASS A, B AND C DAM EMBANKMENTS SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED GEOTECHNICAL ENGINEER, WHO IS REGISTERED AS A PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA. THE GEOTECHNICAL ENGINEER MUST HAVE EXPERIENCE IN THE DESIGN AND CONSTRUCTION MONITORING OF DAMS OF THE SIZE AND SCOPE COVERED BY THESE STANDARDS AND GUIDELINES. 3. ON CLASS A, B, AND C DAMS (WITH THE EXCEPTION OF DETENTION ONLY CLASS C DAMS THAT COLLECT DRAINAGE FROM AN AREA OF 25-ACRES OR LESS), THE GEOTECHNICAL ENGINEER, AS DEFINED ABOVE, SHALL OBSERVE ALL ASPECTS OF THE CONSTRUCTION OF THE DAM (I.E., PREPARATION OF THE FOUNDATION, INSTALLATION OF THE CUT-OFF TRENCH, INSTALLATION OF THE PRINCIPAL SPILLWAY PIPE, INSTALLATION OF THE INTERNAL DRAINAGE, INSTALLATION OF COMPACTED FILL, ETC.). THE FREQUENCY OF OBSERVATION AND TESTING MUST BE SUFFICIENT FOR THE GEOTECHNICAL ENGINEER OR THE DESIGN ENGINEER ON CLASS D DAMS AND CLASS C, DETENTION ONLY, DAMS) TO STATE, IN HIS/HER PROFESSIONAL OPINION, THAT THE SPECIFIC ITEMS OBSERVED AND TESTED WERE INSTALLED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS AND SPECIFICATIONS. REFERENCE IS MADE TO THE CITY OF DURHAM "REFERENCE GUIDE FOR DEVELOPMENT" SECTIONS 4.1 TO 4.5 REGARDING GEOTECHNICAL CERTIFICATION OF DAM EMBANKMENTS.

GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF DURHAM, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS. 2. SEE GRADING PLAN FOR MORE INFORMATION ON ENTIRE SITE GRADING.

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

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09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

09/17/2021  
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**S. FANTAYE**

DESIGNED BY  
**S. FANTAYE**

CHECKED BY  
**J. BLASCO**

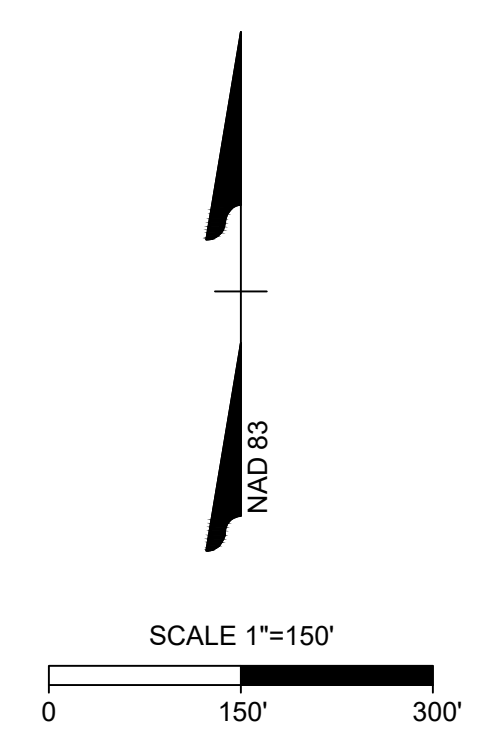
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# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**  
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**OVERALL LANDSCAPE PLAN**

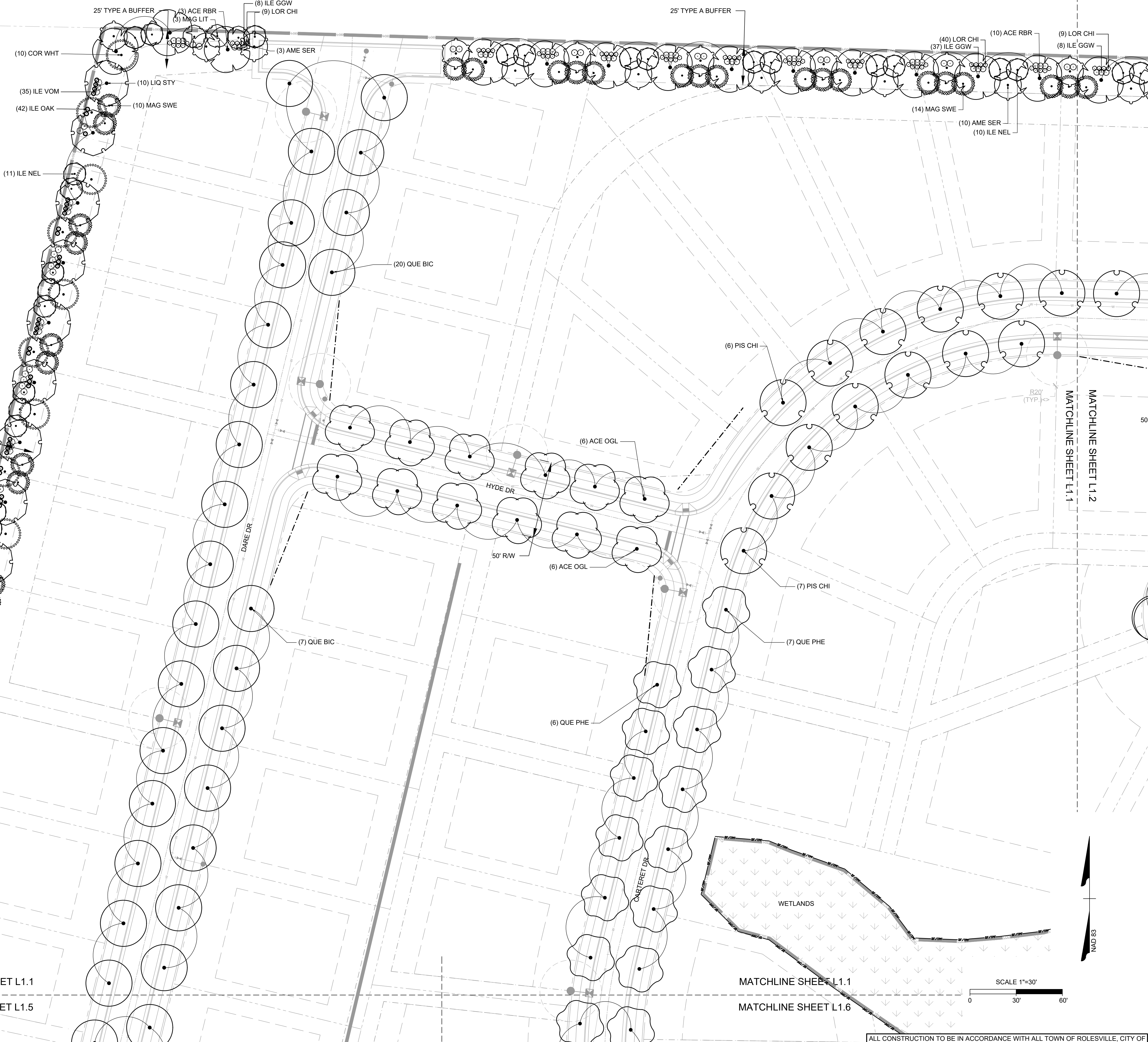
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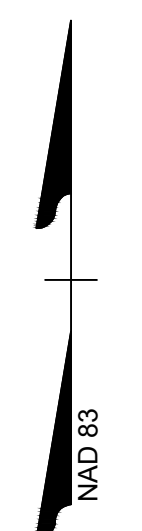


- (6) MAG SWE
- (23) ILE OAK
- (6) COR WHT
- (17) ILE VOM
- (9) ILE NEL
- (5) ILE NEL
- (13) ILE OAK
- (11) ILE VOM
- (6) LIQ STY
- (2) MAG SWE
- (3) LIQ STY
- (3) COR WHT
- (1) COR WHT
- (2) MAG SWE
- (1) LIQ STY

MATCHLINE SHEET L1.1  
MATCHLINE SHEET L1.5

MATCHLINE SHEET L1.1  
MATCHLINE SHEET L1.6

SCALE 1"=30'  
0 30' 60'



01/02/2024

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CHECKED BY J. BLASCO  
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# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**  
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**LANDSCAPE PLAN**

JOB NO. 43398  
SHEET NO. L1.1

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**R. WINGATE**

DESIGNED BY  
**P. BARBEAU**

CHECKED BY  
**P. BARBEAU**

SCALE  
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 NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**  
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**LANDSCAPE PLAN**

JOB NO.  
**43398**

SHEET NO.  
**L1.2**

REVISION DESCRIPTION	DATE
REVISIONS PER WAKE COUNTY COMMENTS	06/24/2022
CONSTRUCTION DOCUMENT SUBMITTAL	07/22/2022
REVISIONS PER NCDOT COMMENTS	04/06/2023
REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024

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**ROLESVILLE CROSSING - CD 21-08**  
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**LANDSCAPE PLAN**

JOB NO.  
**43398**

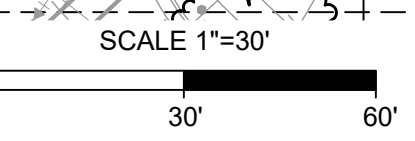
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**PLANT SCHEDULE 1.2**

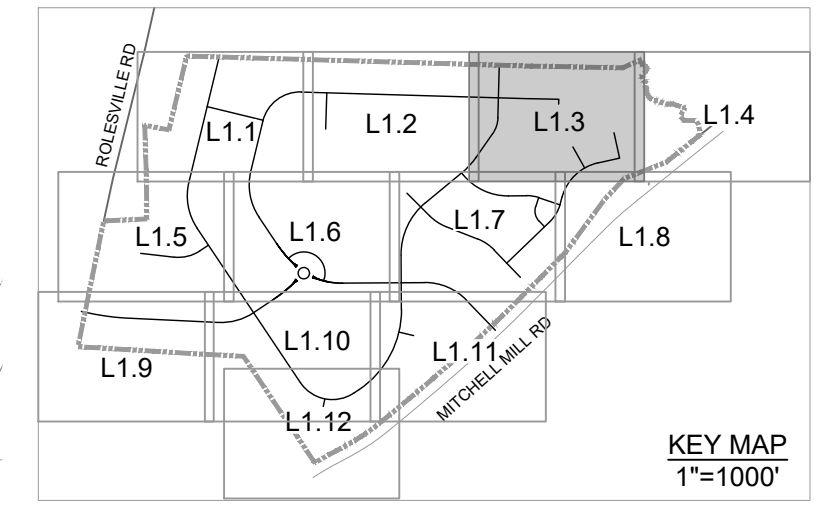
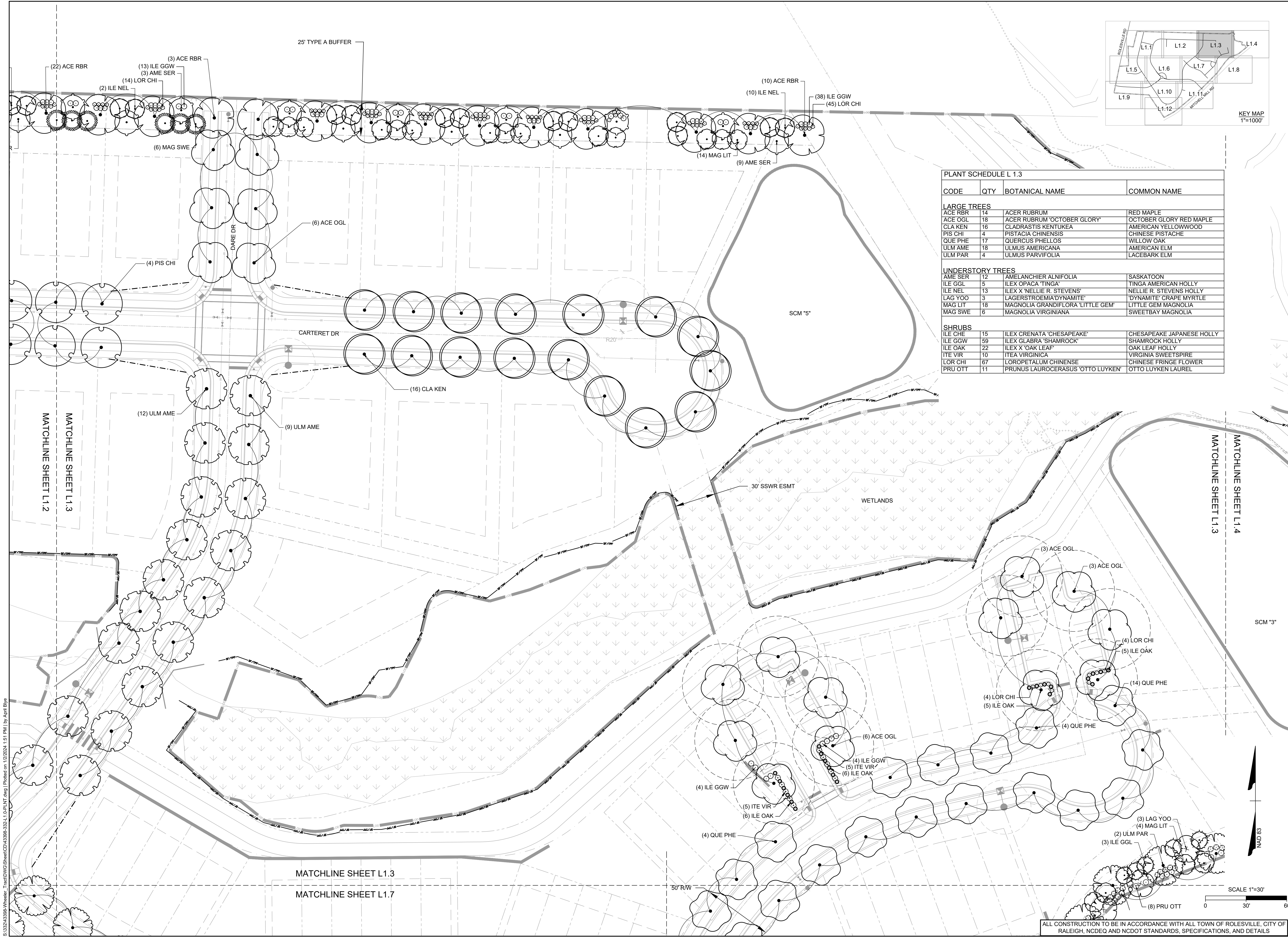
CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>LARGE TREES</b>			
ACE RBR	23	ACER RUBRUM	RED MAPLE
CLA KEN	12	CLADRSTIS KENTUKEA	AMERICAN YELLOWWOOD
PIS CHI	41	PISTACIA CHINENSIS	CHINESE PISTACHE
ULM AME	7	ULMUS AMERICANA	AMERICAN ELM
ULM PAR	1	ULMUS PARVIFOLIA	LACEBARK ELM
<b>UNDERSTORY TREES</b>			
AME SER	23	AMELANCHIER ALNIFOLIA	SASKATOON
ILE NEL	22	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY
MAG SWE	36	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA
<b>SHRUBS</b>			
ILE GGW	92	ILEX GLABRA 'SHAMROCK'	SHAMROCK HOLLY
LOR CHI	102	LOROPETALUM CHINENSE	CHINESE FRINGE FLOWER



NAD 83

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**PLANT SCHEDULE L 1.3**

CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>LARGE TREES</b>			
ACE RBR	14	ACER RUBRUM	RED MAPLE
ACE OGL	18	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE
CLA KEN	16	CLADRASTIS KENTUKEA	AMERICAN YELLOWWOOD
PIS CHI	4	PISTACIA CHINENSIS	CHINESE PISTACHE
QUE PHE	17	QUERCUS PHELLOS	WILLOW OAK
ULM AME	18	ULMUS AMERICANA	AMERICAN ELM
ULM PAR	4	ULMUS PARVIFOLIA	LACEBARK ELM
<b>UNDERSTORY TREES</b>			
AME SER	12	AMELANCHIER ALNIFOLIA	SASKATOON
ILE GGL	5	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
ILE NEL	13	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY
LAG YOO	3	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' CRAPE MYRTLE
MAG LIT	18	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA
MAG SWE	6	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA
<b>SHRUBS</b>			
ILE CHE	15	ILEX CRENATA 'CHESAPEAKE'	CHESAPEAKE JAPANESE HOLLY
ILE GGW	59	ILEX GLABRA 'SHAMROCK'	SHAMROCK HOLLY
ILE OAK	22	ILEX X 'OAK LEAF'	OAK LEAF HOLLY
ITE VIR	10	ITEA VIRGINICA	VIRGINIA SWEETSPIRE
LOR CHI	67	LOROPETALUM CHINENSE	CHINESE FRINGE FLOWER
PRU OTT	11	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL



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01/02/2024	REVISONS TO APPROVED PLANS

09/17/2021  
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 DESIGNED BY  
**P. BARBEAU**  
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**P. BARBEAU**  
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 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**LANDSCAPE PLAN**

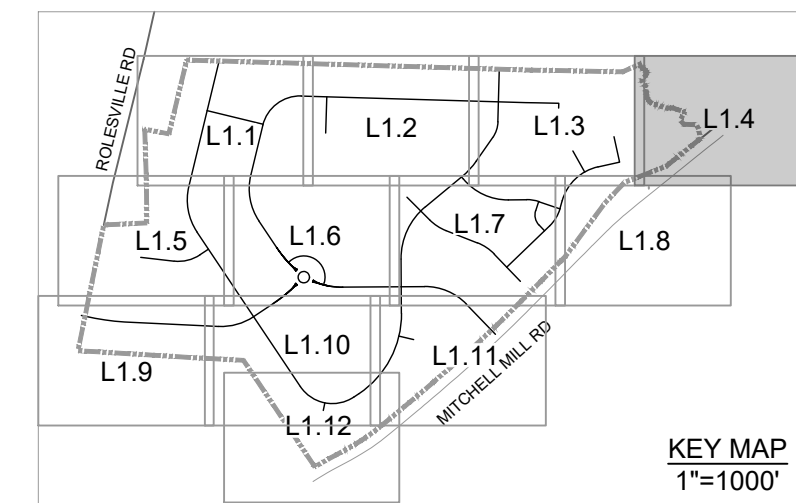
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**43398**  
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**L1.3**

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PLANT SCHEDULE L 1.4			
CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>LARGE TREES</b>			
ULM PAR	5	ULMUS PARVIFOLIA	LACEBARK ELM
<b>UNDERSTORY TREES</b>			
ILEX GGL	10	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
LAG YOO	2	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' CRAPE MYRTLE
MAG LIT	3	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA
<b>SHRUBS</b>			
ILEX CHE	22	ILEX CRENATA 'CHESAPEAKE'	CHESAPEAKE JAPANESE HOLLY
PRU OTT	18	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL



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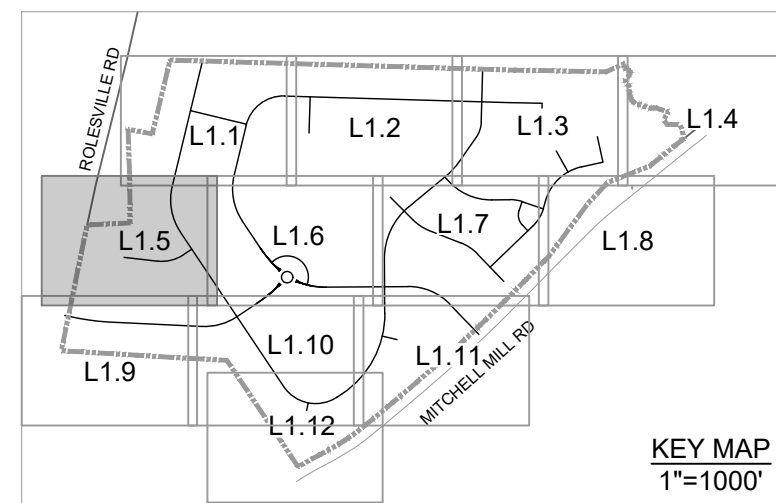
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 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**LANDSCAPE PLAN**

JOB NO.  
**43398**  
 SHEET NO.  
**L1.4**

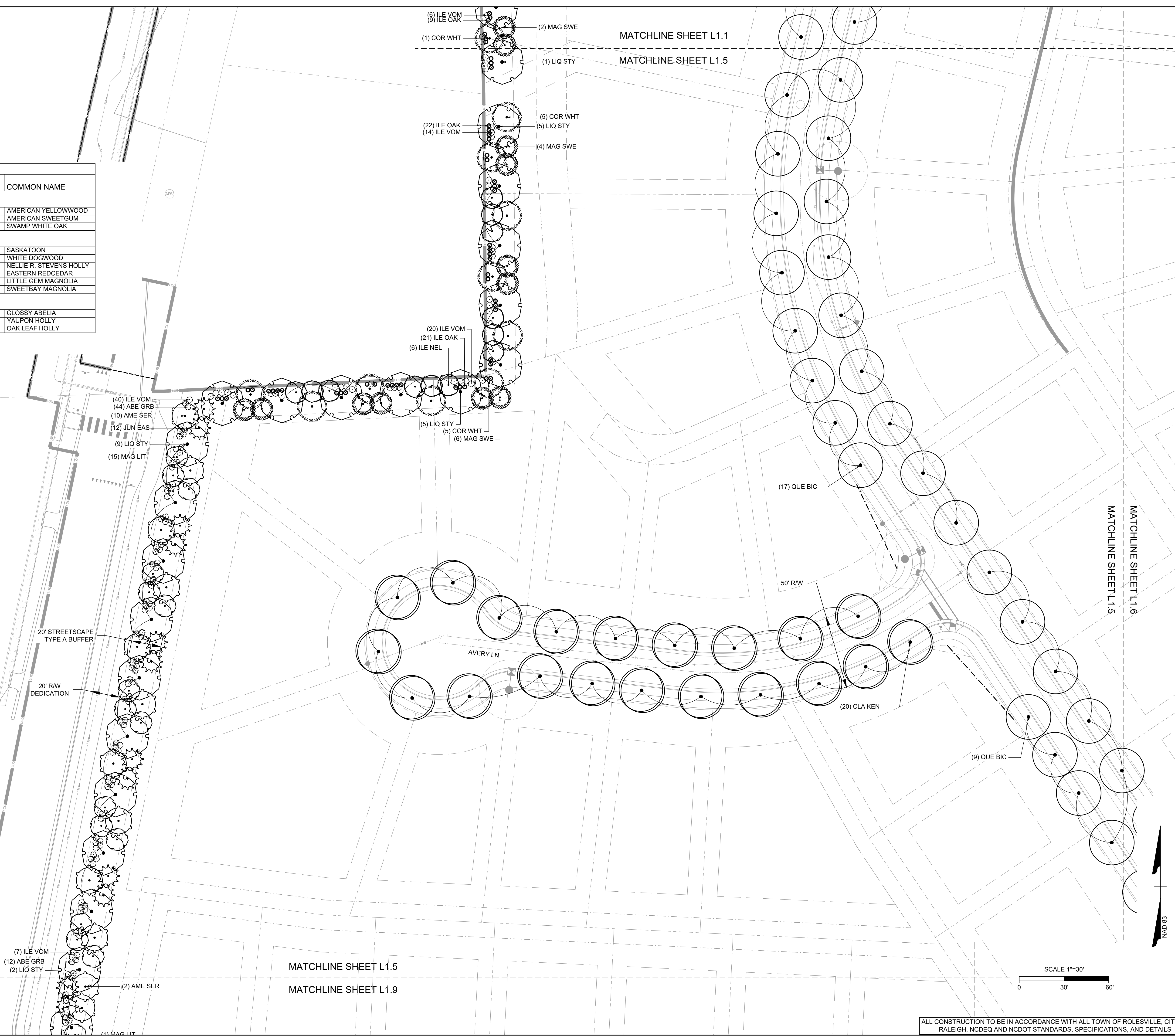
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CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>LARGE TREES</b>			
CLA KEN	20	CLADRSTIS KENTUKEA	AMERICAN YELLOWWOOD
LIQ STY	21	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM
QUE BIC	30	QUERCUS BICOLOR	SWAMP WHITE OAK
<b>UNDERSTORY TREES</b>			
AME SER	12	AMELANCHIER ALNIFOLIA	SASKATOON
COR WHT	11	CORNUS FLORIDA	WHITE DOGWOOD
ILE NEL	12	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY
JUN EAS	12	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR
MAG LIT	15	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA
MAG SWE	12	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA
<b>SHRUBS</b>			
ABE GRB	51	ABELIA GRANDIFLORA	GLOSSY ABELIA
ILE VOM	85	ILEX VOMITORIA	YAUPON HOLLY
ILE OAK	52	ILEX X 'OAK LEAF'	OAK LEAF HOLLY



(7) ILE VOM  
(12) ABE GRB  
(2) LIQ STY  
(2) AME SER

MATCHLINE SHEET L1.5  
MATCHLINE SHEET L1.9

(20) ILE VOM  
(21) ILE OAK  
(6) ILE NEL  
(5) LIQ STY  
(5) COR WHT  
(6) MAG SWE

(6) ILE VOM  
(9) ILE OAK  
(1) COR WHT  
(2) MAG SWE  
(1) LIQ STY  
(5) COR WHT  
(5) LIQ STY  
(4) MAG SWE

MATCHLINE SHEET L1.1  
MATCHLINE SHEET L1.5

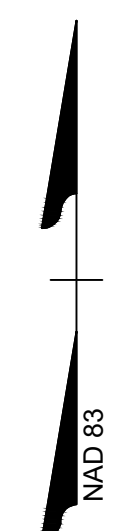
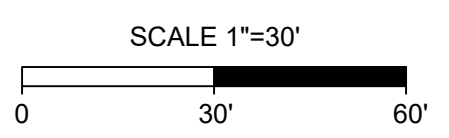
(17) QUE BIC

50' R/W

(20) CLA KEN

(9) QUE BIC

MATCHLINE SHEET L1.5  
MATCHLINE SHEET L1.6



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R. WINGATE

DESIGNED BY  
P. BARBEAU

CHECKED BY  
P. BARBEAU

SCALE  
AS SHOWN

**TIMMONS GROUP**

NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

**LANDSCAPE PLAN**

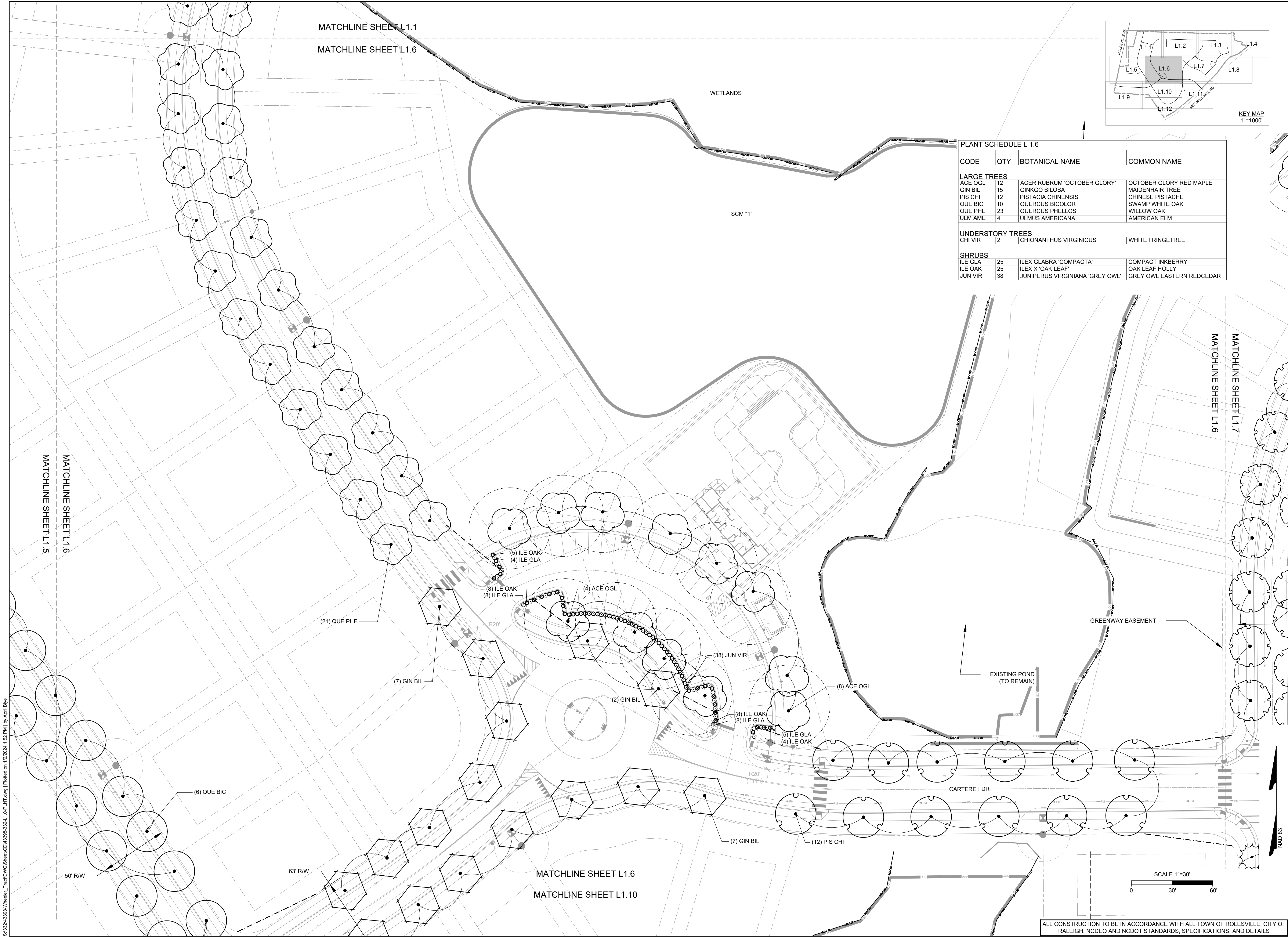
JOB NO.  
43398

SHEET NO.  
L1.5

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

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MATCHLINE SHEET L1.1  
MATCHLINE SHEET L1.6

MATCHLINE SHEET L1.5  
MATCHLINE SHEET L1.6

MATCHLINE SHEET L1.6  
MATCHLINE SHEET L1.10

MATCHLINE SHEET L1.6  
MATCHLINE SHEET L1.7  
MATCHLINE SHEET L1.8

WETLANDS

SCM "1"

PLANT SCHEDULE L 1.6

CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>LARGE TREES</b>			
ACE OGL	12	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE
GIN BIL	15	GINKGO BILOBA	MAIDENHAIR TREE
PIS CHI	12	PISTACIA CHINENSIS	CHINESE PISTACHE
QUE BIC	10	QUERCUS BICOLOR	SWAMP WHITE OAK
QUE PHE	23	QUERCUS PHELLOS	WILLOW OAK
ULM AME	4	ULMUS AMERICANA	AMERICAN ELM
<b>UNDERSTORY TREES</b>			
CHI VIR	2	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
<b>SHRUBS</b>			
ILE GLA	25	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY
ILE OAK	25	ILEX X 'OAK LEAF'	OAK LEAF HOLLY
JUN VIR	38	JUNIPERUS VIRGINIANA 'GREY OWL'	GREY OWL EASTERN REDCEDAR



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09/06/2023	REVISIONS PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISIONS TO APPROVED PLANS

DATE  
09/17/2021

DRAWN BY  
R. WINGATE

DESIGNED BY  
P. BARBEAU

CHECKED BY  
P. BARBEAU

SCALE  
AS SHOWN

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**  
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
LANDSCAPE PLAN

JOB NO.  
43398

SHEET NO.  
L1.6

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NORTH CAROLINA LICENSE NO. C-1652

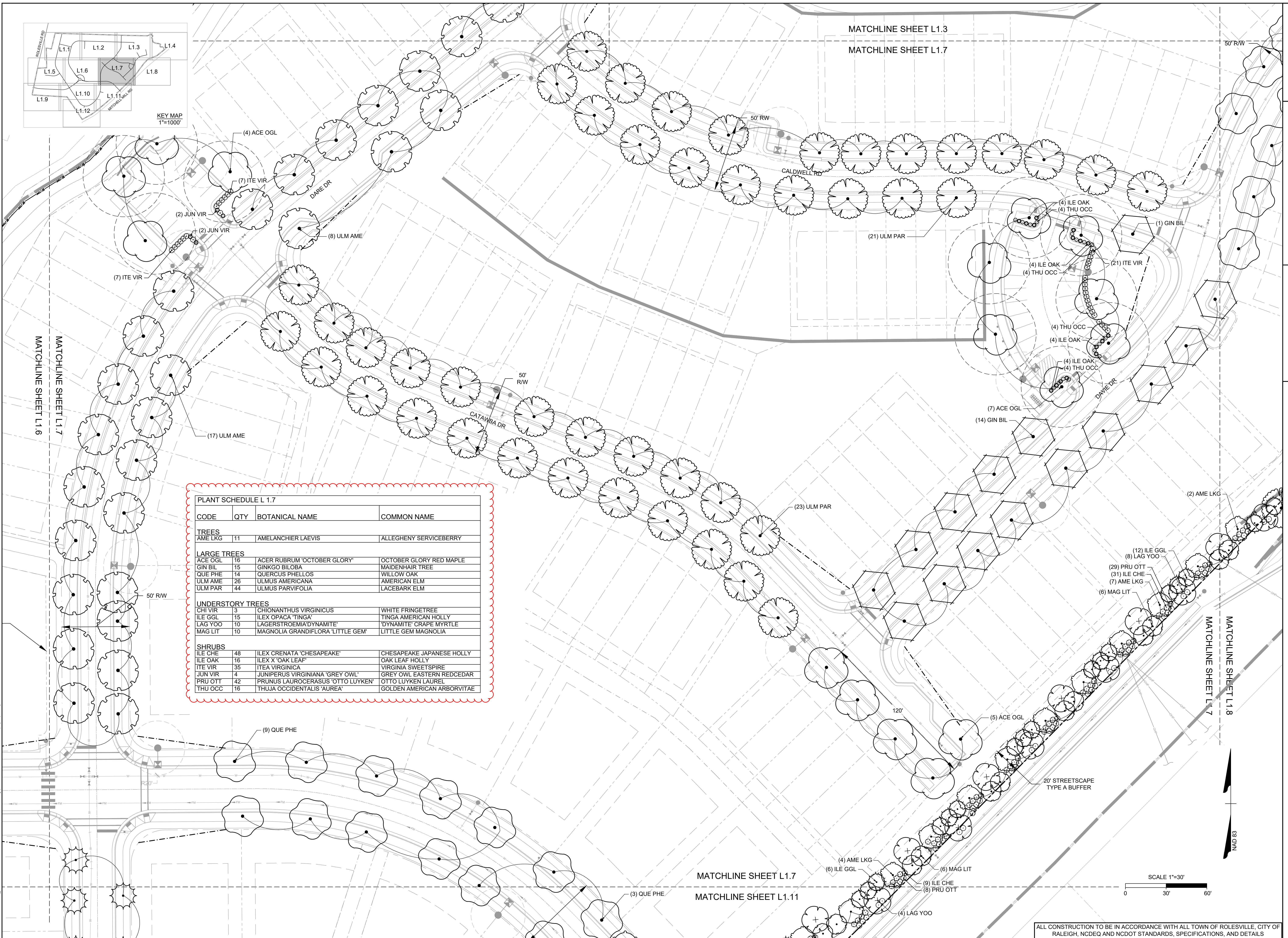
## ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

### LANDSCAPE PLAN

JOB NO.  
**43398**  
 SHEET NO.  
**L1.7**

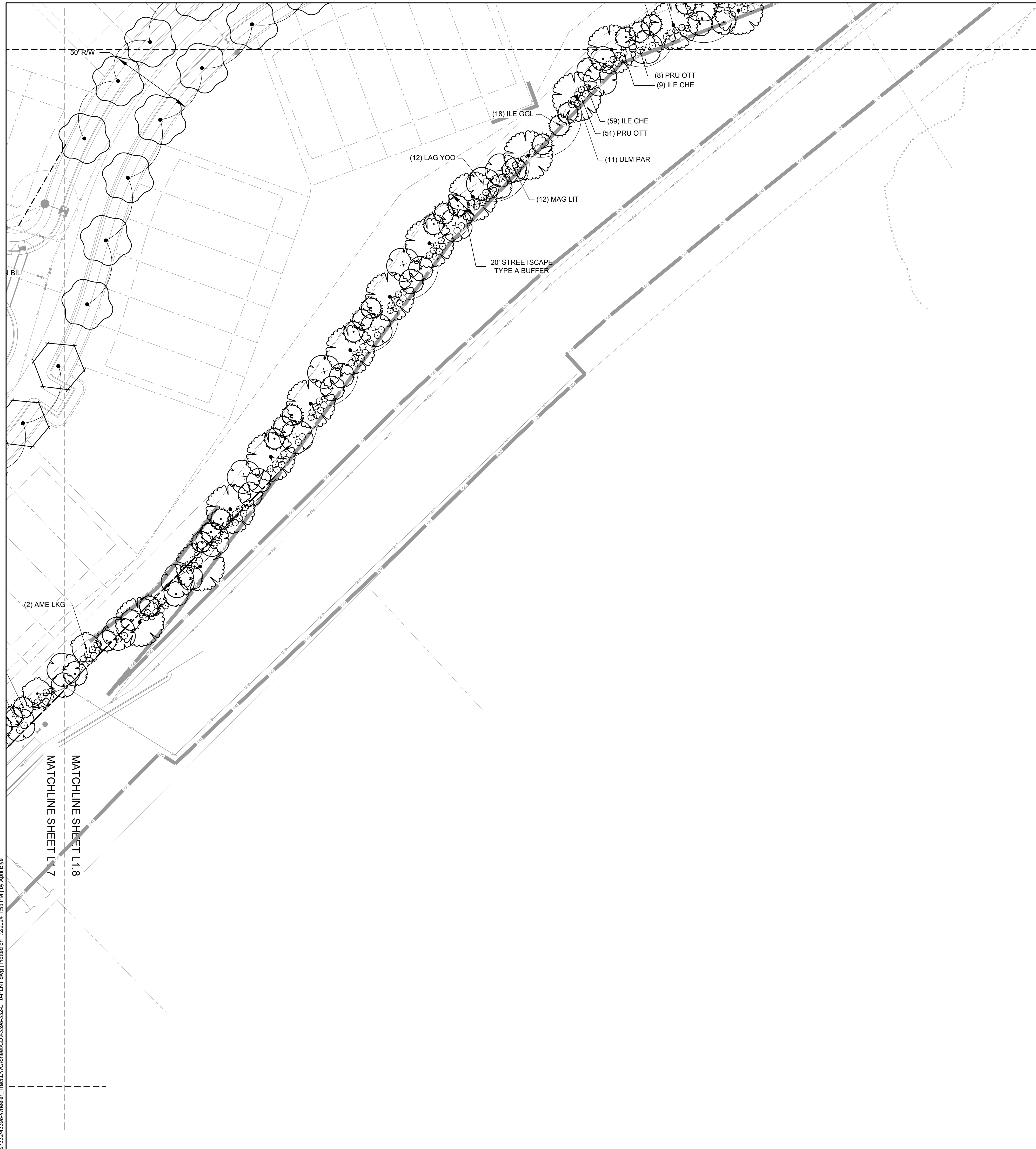
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**PLANT SCHEDULE L 1.7**

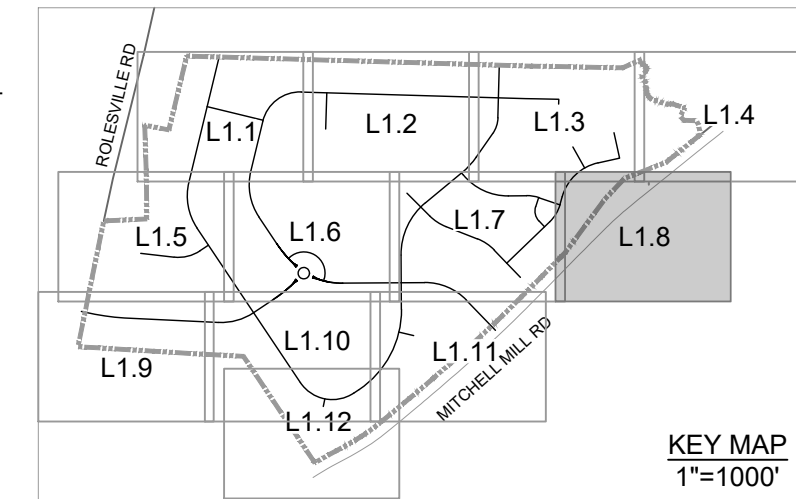
CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>TREES</b>			
AME LKG	11	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY
<b>LARGE TREES</b>			
ACE OGL	16	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE
GIN BIL	15	GINKGO BILOBA	MAIDENHAIR TREE
QUE PHE	14	QUERCUS PHELLOS	WILLOW OAK
ULM AME	26	ULMUS AMERICANA	AMERICAN ELM
ULM PAR	44	ULMUS PARVIFOLIA	LACEBARK ELM
<b>UNDERSTORY TREES</b>			
CHI VIR	3	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
ILE GGL	15	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
LAG YOO	10	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' CRAPE MYRTLE
MAG LIT	10	MAGNOLIA 'GRANDIFLORA 'LITTLE GEM''	LITTLE GEM MAGNOLIA
<b>SHRUBS</b>			
ILE CHE	48	ILEX CRENATA 'CHESAPEAKE'	CHESAPEAKE JAPANESE HOLLY
ILE OAK	16	ILEX X 'OAK LEAF'	OAK LEAF HOLLY
ITE VIR	35	ITEA VIRGINICA	VIRGINIA SWEETSPIRE
JUN VIR	4	JUNIPERUS VIRGINIANA 'GREY OWL'	GREY OWL EASTERN REDCEDAR
PRU OTT	42	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL
THU OCC	16	THUJA OCCIDENTALIS 'AUREA'	GOLDEN AMERICAN ARBORVITAE

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MATCHLINE SHEET L1.4

MATCHLINE SHEET L1.8



PLANT SCHEDULE L 1.8			
CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>TREES</b>			
AME LKG	2	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY
<b>LARGE TREES</b>			
GIN BIL	2	GINKGO BILOBA	MAIDENHAIR TREE
QUE PHE	9	QUERCUS PHELLOS	WILLOW OAK
ULM PAR	14	ULMUS PARVIFOLIA	LACEBARK ELM
<b>UNDERSTORY TREES</b>			
ILE GGL	22	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
LAG YOO	14	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' GRAPE MYRTLE
MAG LIT	16	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA
<b>SHRUBS</b>			
ILE CHE	69	ILEX ORENATA 'CHESAPEAKE'	CHESAPEAKE JAPANESE HOLLY
PRU OTT	163	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL



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REVISIONS PER CITY OF RALEIGH COMMENTS	09/06/2023
REVISIONS TO APPROVED PLANS	01/02/2024

DATE

09/17/2021

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DESIGNED BY  
P. BARBEAU

CHECKED BY  
P. BARBEAU

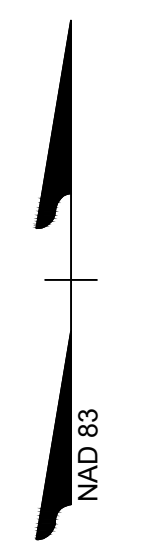
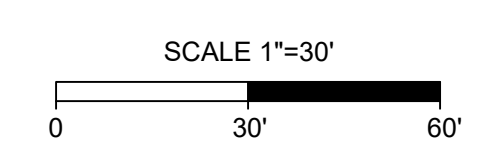
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# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652  
**ROLESVILLE CROSSING - CD 21-08**  
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**LANDSCAPE PLAN**

JOB NO.  
43398

SHEET NO.  
L1.8



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

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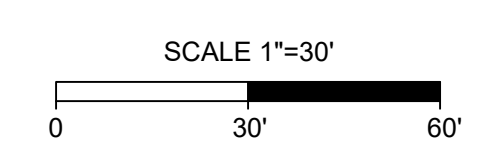


MATCHLINE SHEET L1.5  
MATCHLINE SHEET L1.9

MATCHLINE SHEET L1.10  
MATCHLINE SHEET L1.9

PLANT SCHEDULE L 1.9

CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>LARGE TREES</b>			
LIQ STY	5	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM
LIR TUL	17	LIRIODENDRON TULIPIFERA	TULIP POPLAR
ULM PAR	20	ULMUS PARVIFOLIA	LACEBARK ELM
<b>UNDERSTORY TREES</b>			
AME SER	17	AMELANCHIER ALNIFOLIA	SASKATOON
COR WHT	16	CORNUS FLORIDA	WHITE DOGWOOD
ILE GGL	16	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
JUN EAS	29	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR
MAG LIT	8	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA
<b>SHRUBS</b>			
ABE GRB	27	ABELIA GRANDIFLORA	GLOSSY ABELIA
ILE VOM	19	ILEX VOMITORIA	YAUPOH HOLLY
ITE VIR	82	ITEA VIRGINICA	VIRGINIA SWEETSPIRE
VIB MIS	66	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	VIBURNUM



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**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**  
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

**LANDSCAPE PLAN**

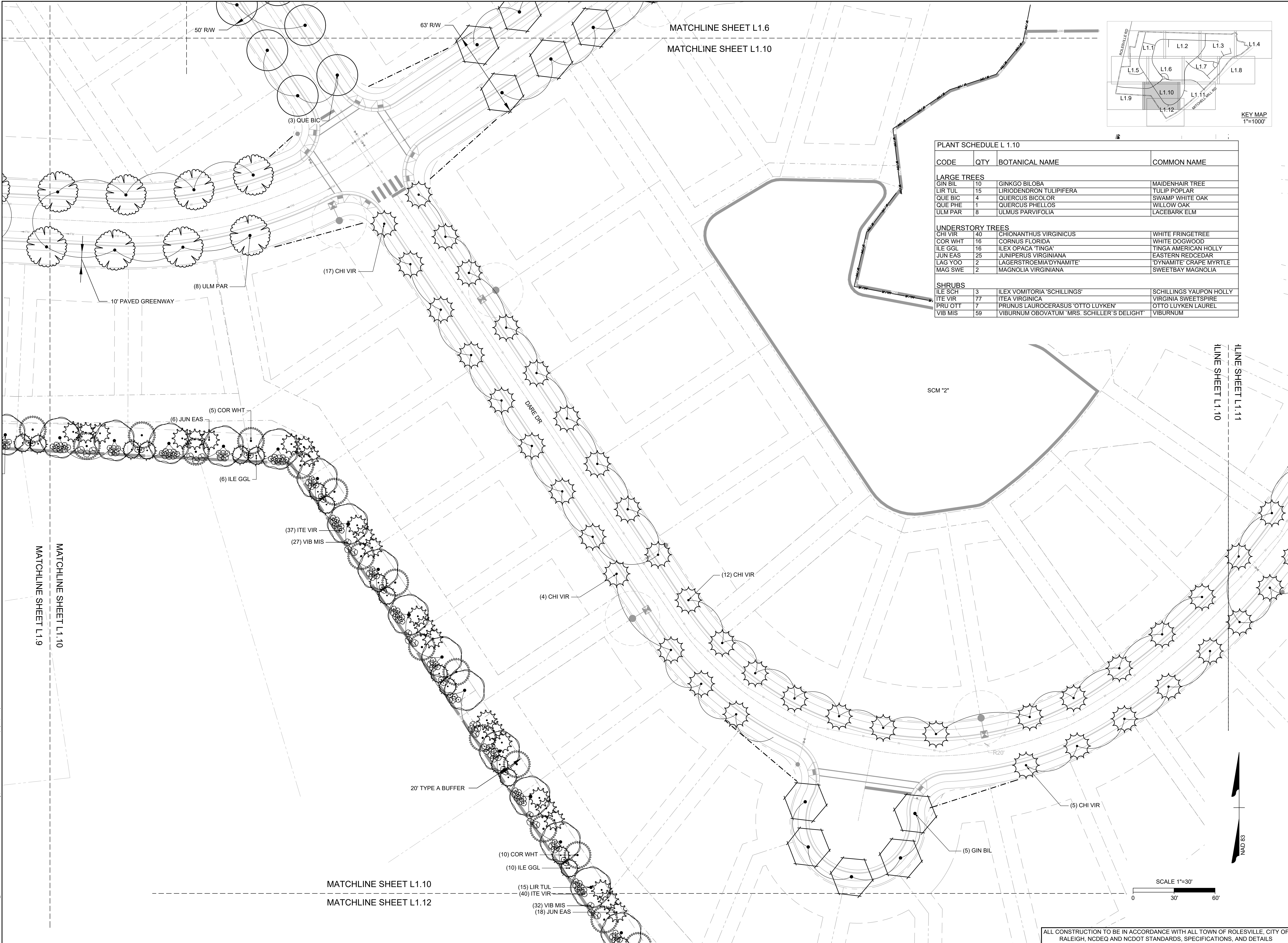
JOB NO. 43398  
SHEET NO. L1.9

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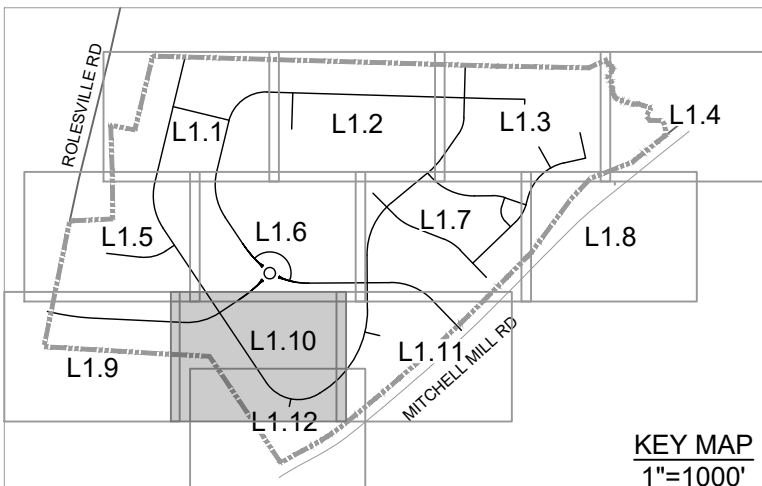
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MATCHLINE SHEET L1.6  
MATCHLINE SHEET L1.10



**PLANT SCHEDULE L 1.10**

CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>LARGE TREES</b>			
GIN BIL	10	GINKGO BILOBA	MAIDENHAIR TREE
LIR TUL	15	LIRIODENDRON TULIPIFERA	TULIP POPLAR
QUE BIC	4	QUERCUS BICOLOR	SWAMP WHITE OAK
QUE PHE	1	QUERCUS PHELLOS	WILLOW OAK
ULM PAR	8	ULMUS PARVIFOLIA	LACEBARK ELM
<b>UNDERSTORY TREES</b>			
CHI VIR	40	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
COR WHT	16	CORNUS FLORIDA	WHITE DOGWOOD
ILE GGL	16	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
JUN EAS	25	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR
LAG YOO	2	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' CRAPE MYRTLE
MAG SWE	2	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA
<b>SHRUBS</b>			
ILE SCH	3	ILEX VOMITORIA 'SCHILLINGS'	SCHILLINGS YAUPON HOLLY
ITE VIR	77	ITEA VIRGINICA	VIRGINIA SWEETSPIRE
PRU OTT	7	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL
VIB MIS	59	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	VIBURNUM



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09/06/2023	REVISED PER CITY OF RALEIGH COMMENTS
01/02/2024	REVISED TO APPROVED PLANS

DATE  
09/17/2021

DRAWN BY  
S. FANTAYE

DESIGNED BY  
S. FANTAYE

CHECKED BY  
J. BLASCO

SCALE  
AS SHOWN

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**  
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

**LANDSCAPE PLAN**

JOB NO.  
**43398**

SHEET NO.  
**L1.10**

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01/02/2024	REVISIONS TO APPROVED PLANS

DATE  
09/17/2021

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DESIGNED BY  
J. BLASCO

CHECKED BY  
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# TIMMONS GROUP

NORTH CAROLINA LICENSE NO. C-1652

## ROLESVILLE CROSSING - CD 21-08

ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

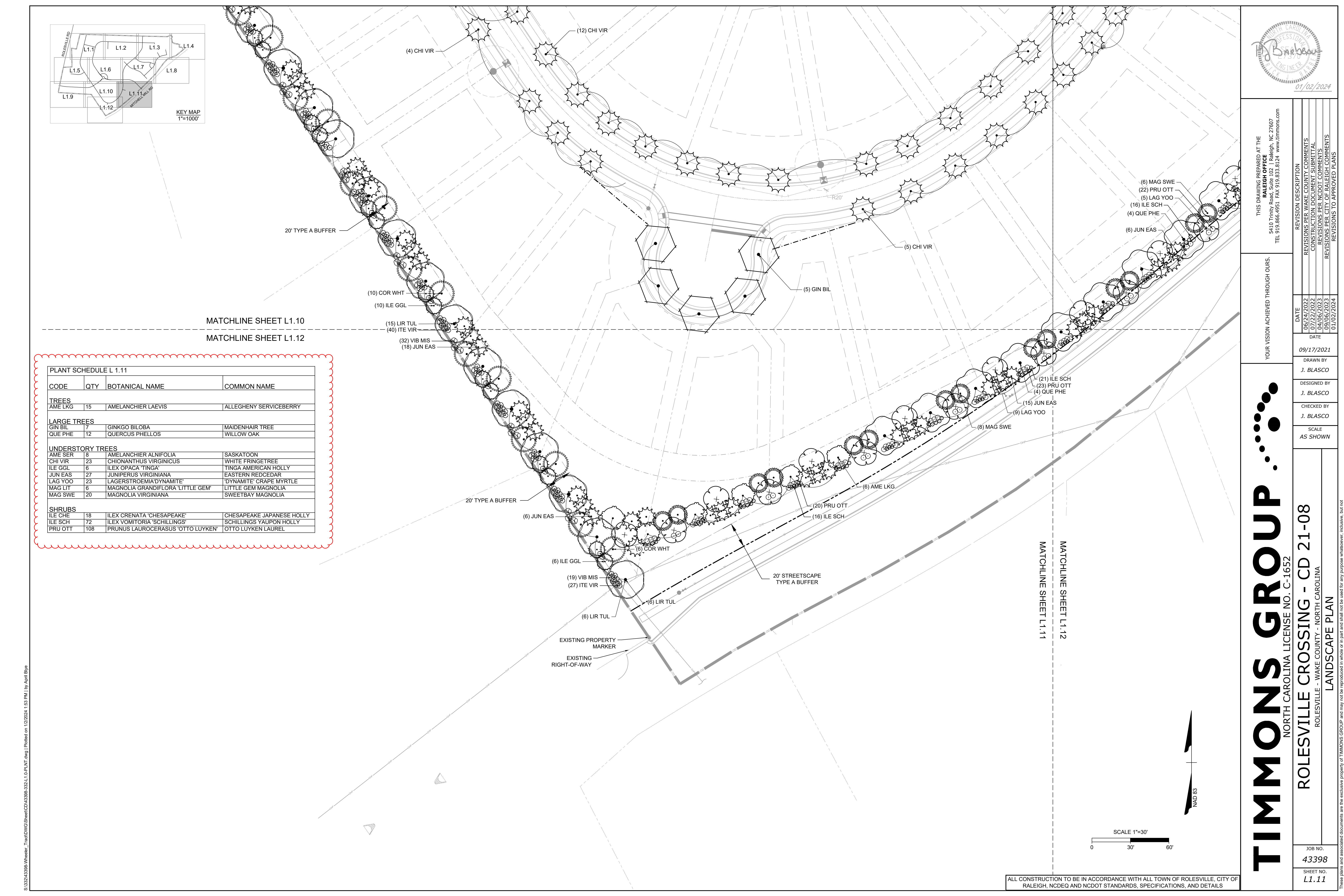
### LANDSCAPE PLAN

JOB NO.  
43398

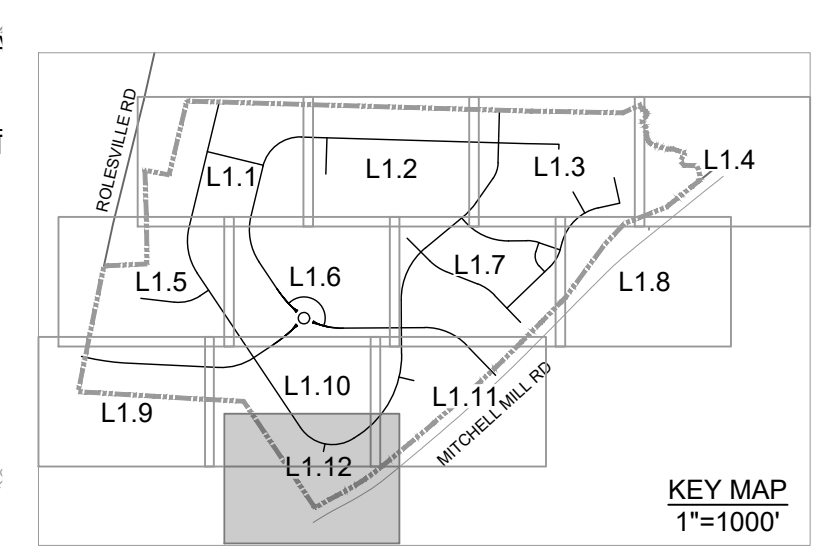
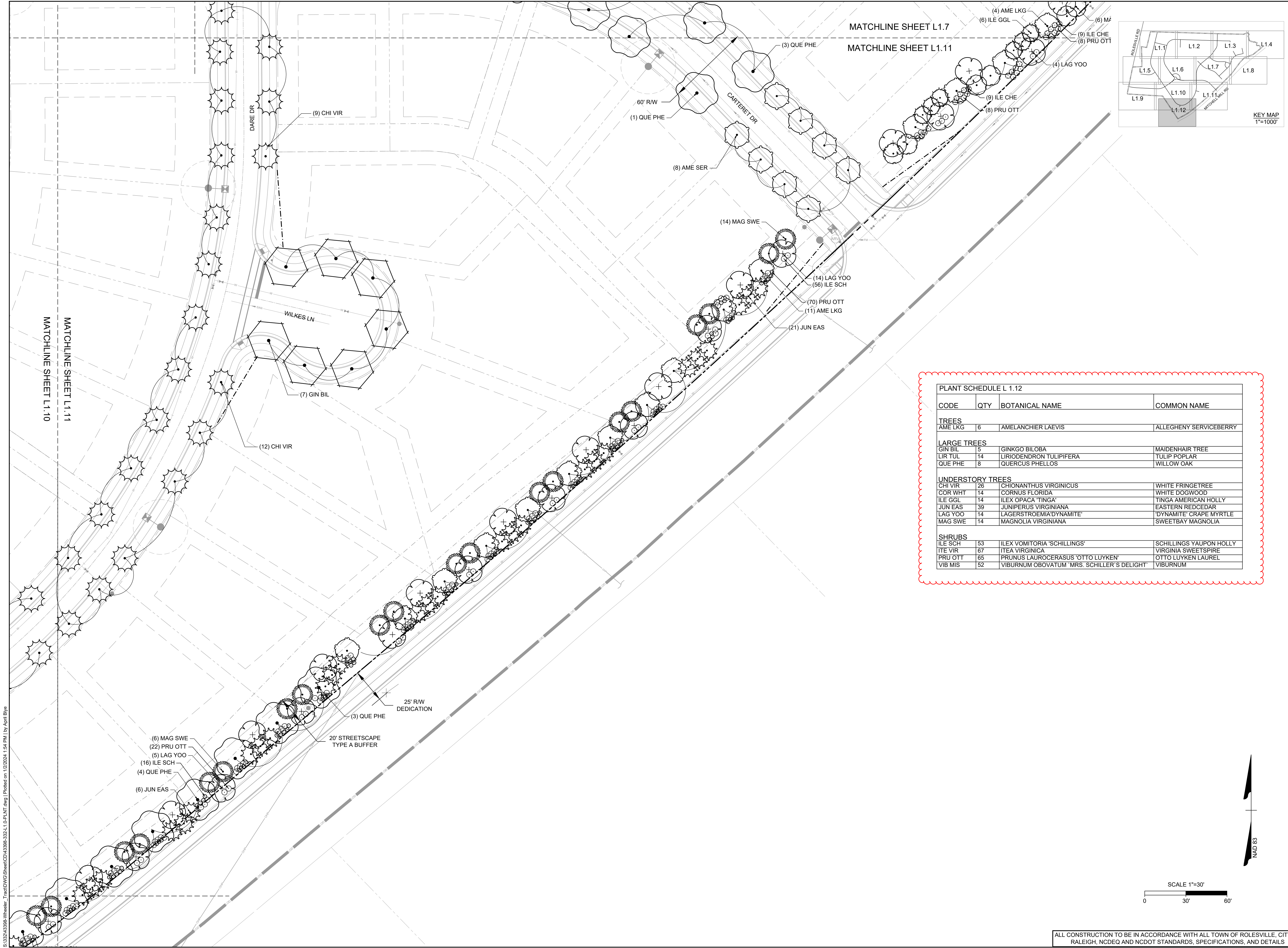
SHEET NO.  
L1.11

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CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>TREES</b>			
AME LKG	15	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY
<b>LARGE TREES</b>			
GIN BIL	7	GINKGO BILOBA	MAIDENHAIR TREE
QUE PHE	12	QUERCUS PHELLOS	WILLOW OAK
<b>UNDERSTORY TREES</b>			
AME SER	8	AMELANCHIER ALNIFOLIA	SASKATOON
CHI VIR	23	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
ILE GGL	6	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
JUN EAS	27	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR
LAG YOO	23	LAGERSTROEMIA'DYNAMITE'	'DYNAMITE' CRAPE MYRTLE
MAG LIT	6	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA
MAG SWE	20	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA
<b>SHRUBS</b>			
ILE CHE	18	ILEX CRENATA 'CHESAPEAKE'	CHESAPEAKE JAPANESE HOLLY
ILE SCH	72	ILEX VOMITORIA 'SCHILLINGS'	SCHILLINGS YAUPON HOLLY
PRU OTT	108	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL

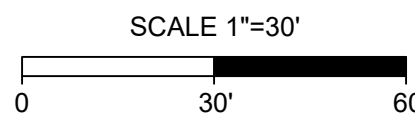


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PLANT SCHEDULE L 1.12

CODE	QTY	BOTANICAL NAME	COMMON NAME
<b>TREES</b>			
AME LKG	6	AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY
<b>LARGE TREES</b>			
GIN BIL	5	GINKGO BILOBA	MAIDENHAIR TREE
LIR TUL	14	LIRIODENDRON TULIPIFERA	TULIP POPLAR
QUE PHE	8	QUERCUS PHELLOS	WILLOW OAK
<b>UNDERSTORY TREES</b>			
CHI VIR	26	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE
COR WHT	14	CORNUS FLORIDA	WHITE DOGWOOD
ILE GGL	14	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY
JUN EAS	39	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR
LAG YOO	14	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' CRAPE MYRTLE
MAG SWE	14	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA
<b>SHRUBS</b>			
ILE SCH	53	ILEX VOMITORIA 'SCHILLINGS'	SCHILLINGS YAUPON HOLLY
ITE VIR	67	ITEA VIRGINICA	VIRGINIA SWEETSPIRE
PRU OTT	65	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL
VIB MIS	52	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	VIBURNUM



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REVISIONS TO APPROVED PLANS	01/02/2024

09/17/2021  
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 DESIGNED BY  
**S. FANTAYE**  
 CHECKED BY  
**J. BLASCO**  
 SCALE  
**AS SHOWN**

**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**  
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

**LANDSCAPE PLAN**

JOB NO.  
**43398**

SHEET NO.  
**L1.12**

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DATE: 09/17/2021  
 DRAWN BY: S. FANTAYE  
 DESIGNED BY: S. FANTAYE  
 CHECKED BY: J. BLASCO  
 SCALE: AS SHOWN

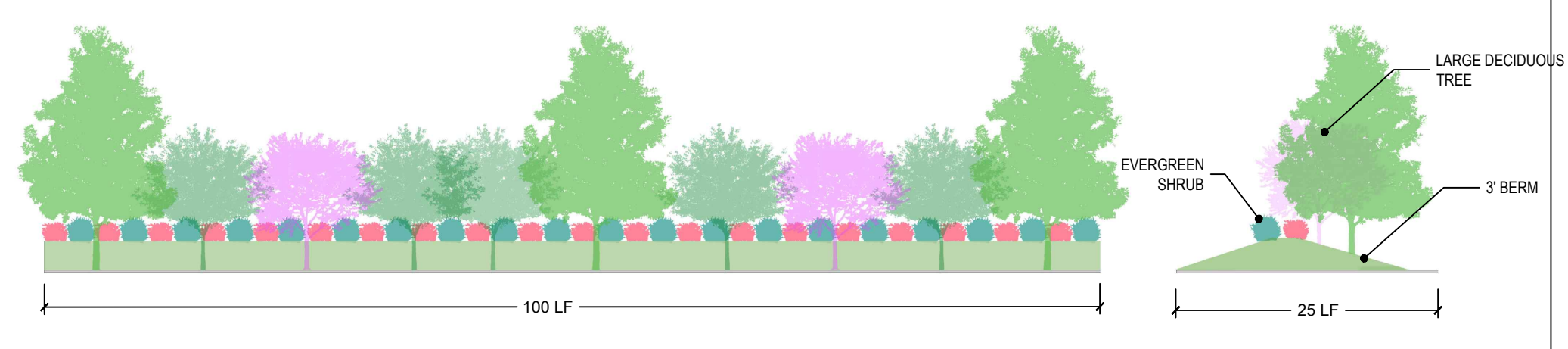
**TIMMONS GROUP**  
 NORTH CAROLINA LICENSE NO. C-1652  
**ROLESVILLE CROSSING - CD 21-08**  
 ROLESVILLE - WAKE COUNTY - NORTH CAROLINA  
**LANDSCAPE NOTES & DETAILS 1**

JOB NO. 43398  
 SHEET NO. L2.0

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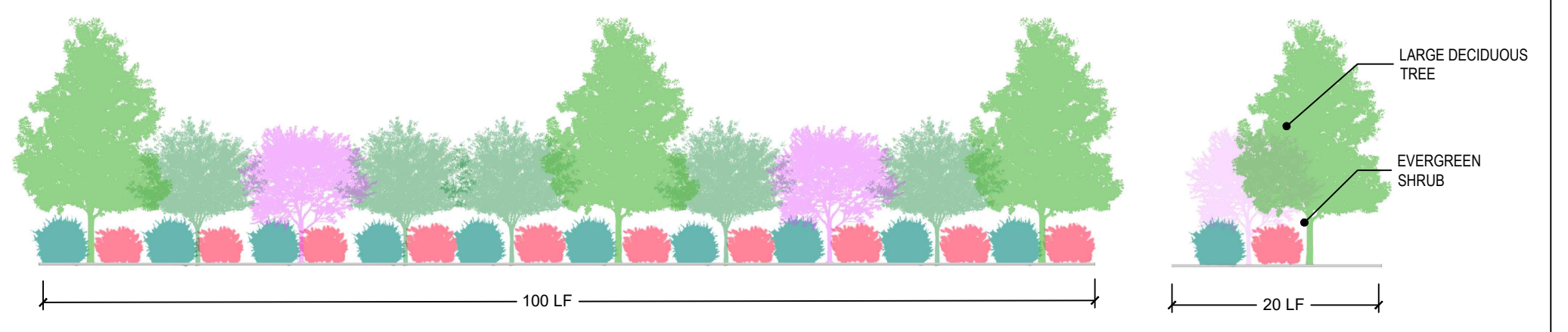
LARGE TREES		CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	ROOT	TYPE
ACE RBR	48	ACER RUBRUM	RED MAPLE	2.5" CAL., 10' HT. MIN.	B&B	PERIMETER BUFFER		
ACE OGL	58	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2.5" CAL., 10' HT. MIN.	B&B	STREET TREES		
CLA KEN	48	CLADRASTIS KENTUKEA	AMERICAN YELLOWWOOD	2.5" CAL., 10' HT. MIN.	B&B	STREET TREES		
GIN BIL	43	GINKGO BILOBA	MAIDENHAIR TREE	2.5" CAL., 10' HT. MIN.	B&B	STREET TREES		
LIQ STY	44	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEETGUM	2.5" CAL., 10' HT. MIN.	B&B	PERIMETER BUFFER		
LIR TUL	37	LIRIODENDRON TULIPIFERA	TULIP POPLAR	2.5" CAL., 10' HT. MIN.	B&B	PERIMETER BUFFER		
PIS CHI	67	PISTACIA CHINENSIS	CHINESE PISTACHE	2.5" CAL., 10' HT. MIN.	B&B	STREET TREES		
QUE BIC	62	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5" CAL., 10' HT. MIN.	B&B	STREET TREES		
QUE PHE	80	QUERCUS PHELLOS	WILLOW OAK	2.5" CAL., 10' HT. MIN.	B&B	STREET TREES		
ULM AME	46	ULMUS AMERICANA	AMERICAN ELM	2.5" CAL., 10' HT. MIN.	B&B	STREET TREES		
ULM PAR	88	ULMUS PARVIFOLIA	LACEBARK ELM	2.5" CAL., 10' HT. MIN.	B&B	STREET TREES		
UNDERSTORY TREES		CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	ROOT	TYPE
AME SER	82	AMELANCHIER ALNIFOLIA	SASKATOON	1.5" CAL., 8' HT. MIN.	B&B	PERIMETER BUFFER		
CER CAN	30	CERCIS CANADENSIS	EASTERN REDBUD	1.5" CAL., 8' HT. MIN.	B&B	PERIMETER BUFFER		
CHI VIR	59	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	1.5" CAL., 8' HT. MIN.	B&B	STREET TREES		
COR WHT	66	CORNUS FLORIDA	WHITE DOGWOOD	1.5" CAL., 8' HT. MIN.	B&B	PERIMETER BUFFER		
ILE GGL	86	ILEX OPACA 'TINGA'	TINGA AMERICAN HOLLY	1.5" CAL., 8' HT. MIN.	B&B	PERIMETER BUFFER		
ILE NEL	84	ILEX X 'NELLIE R. STEVENS'	NELLIE R. STEVENS HOLLY	1.5" CAL., 8' HT. MIN.	B&B	PERIMETER BUFFER		
JUN EAS	110	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR	1.5" CAL., 8' HT. MIN.	B&B	PERIMETER BUFFER		
LAG YOO	57	LAGERSTROEMIA 'DYNAMITE'	'DYNAMITE' CRAPE MYRTLE	1.5" CAL., 8' HT. MIN.	B&B	PERIMETER BUFFER		
MAG LIT	69	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA	1.5" CAL., 8' HT. MIN.	B&B	PERIMETER BUFFER		
MAG SWE	111	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	1.5" CAL., 8' HT. MIN.	B&B	PERIMETER BUFFER		
SHRUBS		CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	ROOT	REMARKS
ABE GRB	71	ABELIA GRANDIFLORA	GLOSSY ABELIA	24" HT. MIN.		PERIMETER BUFFER		
ILE CHE	139	ILEX CRENATA 'CHESAPEAKE'	CHESAPEAKE JAPANESE HOLLY	24" HT. MIN.		PERIMETER BUFFER		
ILE GLA	25	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	24" HT. MIN.		SCREENING		
ILE GGW	192	ILEX GLABRA 'SHAMROCK'	SHAMROCK HOLLY	24" HT. MIN.		PERIMETER BUFFER		
ILE VOM	162	ILEX VOMITORIA	YAUPON HOLLY	24" HT. MIN.		PERIMETER BUFFER		
ILE SCH	109	ILEX VOMITORIA 'SCHILLINGS'	SCHILLINGS YAUPON HOLLY	24" HT. MIN.		PERIMETER BUFFER		
ILE OAK	193	ILEX X 'OAK LEAF'	OAK LEAF HOLLY	24" HT. MIN.		SCREENING		
ITE VIR	224	ITEA VIRGINICA	VIRGINIA SWEETSPIRE	24" HT. MIN.		SCREENING		
JUN VIR	42	JUNIPERUS VIRGINIANA 'GREY OWL'	GREY OWL EASTERN REDCEDAR	24" HT. MIN.		SCREENING		
LOR CHI	215	LOROPETALUM CHINENSE	CHINESE FRINGE FLOWER	24" HT. MIN.		SCREENING		
PRU OTT	257	PRUNUS LAUROCERASUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL	24" HT. MIN.		PERIMETER BUFFER		
THU OCC	16	THUJA OCCIDENTALIS 'AUREA'	GOLDEN AMERICAN ARBORVITAE	24" HT. MIN.		SCREENING		
VIB MIS	140	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	VIBURNUM	24" HT. MIN.		PERIMETER BUFFER		

**NOTE:**  
 NO SINGLE SPECIES SHALL COMPRISE MORE THAN 50% OF PLANT TYPE IN BUFFERS.



**25' TYPE A: OPAQUE YARD BUFFER W/ BERM**  
 3 CANOPY TREES MIN 40' @ MATURITY  
 7 UNDERSTORY TREES MIN 20' @ MATURITY  
 35-40 EVERGREEN SHRUBS 90 (3" H" 5" W)

- |  |   |  |
|--|---|--|
| <b>CANOPY TREES</b><br>Quercus phellos / WILLOW OAK<br>Ulmus americana / AMERICAN ELM<br>Liriodendron tulipifera / TULIP POPLAR<br>Acer rubrum / RED MAPLE<br>Liquidambar styraciflua / FRUITLESS SWEETGUM | <b>UNDERSTORY EVERGREEN</b><br>Magnolia grandiflora 'little gem' / LITTLE GEM MAGNOLIA<br>Magnolia virginiana / SWEETBAY MAGNOLIA<br>Ilex nellie / NELLIE R. STEVENS HOLLY<br>Juniperus virginiana / EASTERN CEDAR<br>Ilex opaca 'tinga' / TINGA AMERICAN HOLLY | <b>UNDERSTORY DECIDUOUS</b><br>Amelanchier alnifolia / SERVICEBERRY<br>Cornus sp. / REDBUD<br>Cornus sp. / DOGWOOD |
| <b>EVERGREEN SHRUB - 3' H</b><br>Itea virginica / VIRGINIA SWEETSPIRE<br>Ilex vomitoria / DWARF YAUPON HOLLY<br>Ilex glabra 'georgia wine' / INKBERRY HOLLY<br>LOROPETALUM SP. / FRINGE                    |   |  |



**20' TYPE A: OPAQUE YARD BUFFER - NO BERM**

3 CANOPY TREES MIN 40' @ MATURITY  
 7 UNDERSTORY TREES MIN 20' @ MATURITY  
 20 EVERGREEN SHRUBS (3" H" 5" W)

- |  |   |  |
|--|---|--|
| <b>CANOPY TREES</b><br>Quercus phellos / WILLOW OAK<br>Ulmus americana / AMERICAN ELM<br>Liriodendron tulipifera / TULIP POPLAR<br>Acer rubrum / RED MAPLE<br>Liquidambar styraciflua / FRUITLESS SWEETGUM | <b>UNDERSTORY EVERGREEN</b><br>Magnolia grandiflora 'little gem' / LITTLE GEM MAGNOLIA<br>Magnolia virginiana / SWEETBAY MAGNOLIA<br>Ilex nellie / NELLIE R. STEVENS HOLLY<br>Juniperus virginiana / EASTERN CEDAR<br>Ilex opaca 'tinga' / TINGA AMERICAN HOLLY | <b>UNDERSTORY DECIDUOUS</b><br>Amelanchier alnifolia / SERVICEBERRY<br>Cornus sp. / REDBUD<br>Cornus sp. / DOGWOOD |
| <b>EVERGREEN SHRUB - 6' H</b><br>Ilex glabra 'cape cod' / INKBERRY HOLLY<br>Chinese Fringe / LOROPETALUM CHINENSIS<br>Glossy Abelia / ABELIA GRANDIFLORA<br>Sasanqua camellia / CAMELIA SASANQUA           |   |  |

**LANDSCAPE CALCULATIONS:**  
**PERIMETER AND STREETScape YARD BUFFERS**

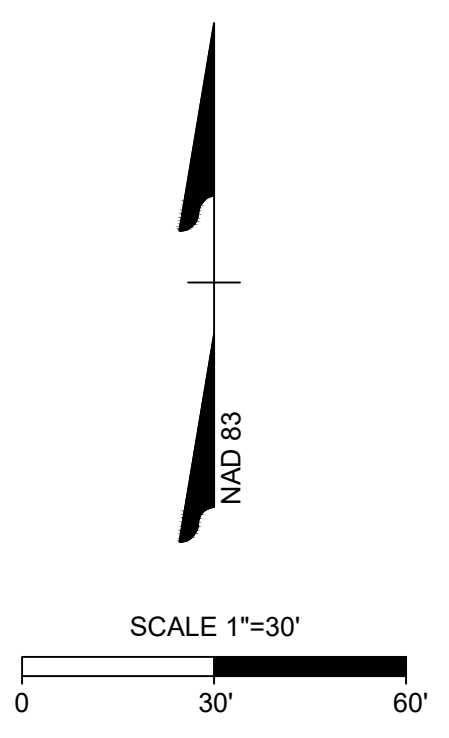
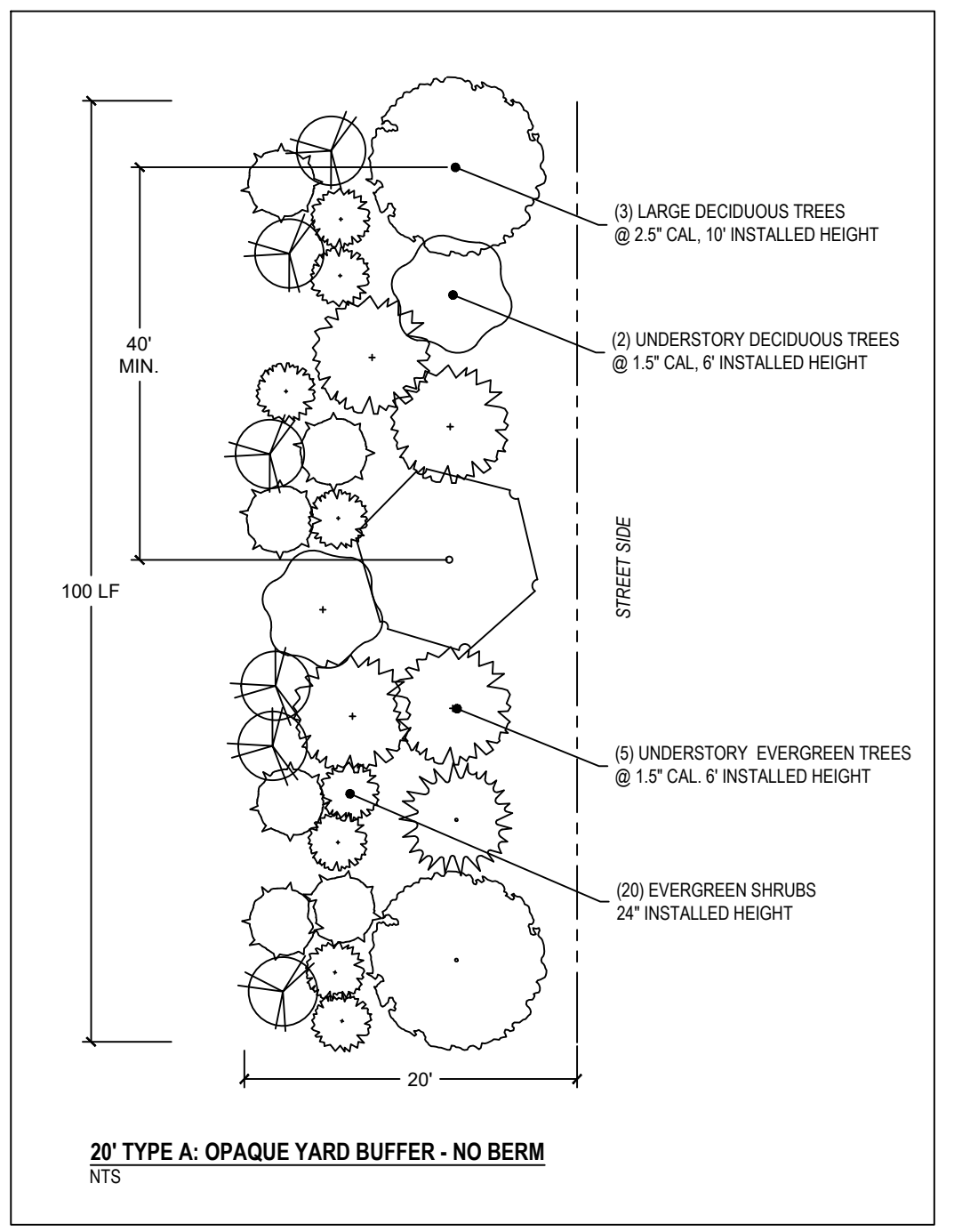
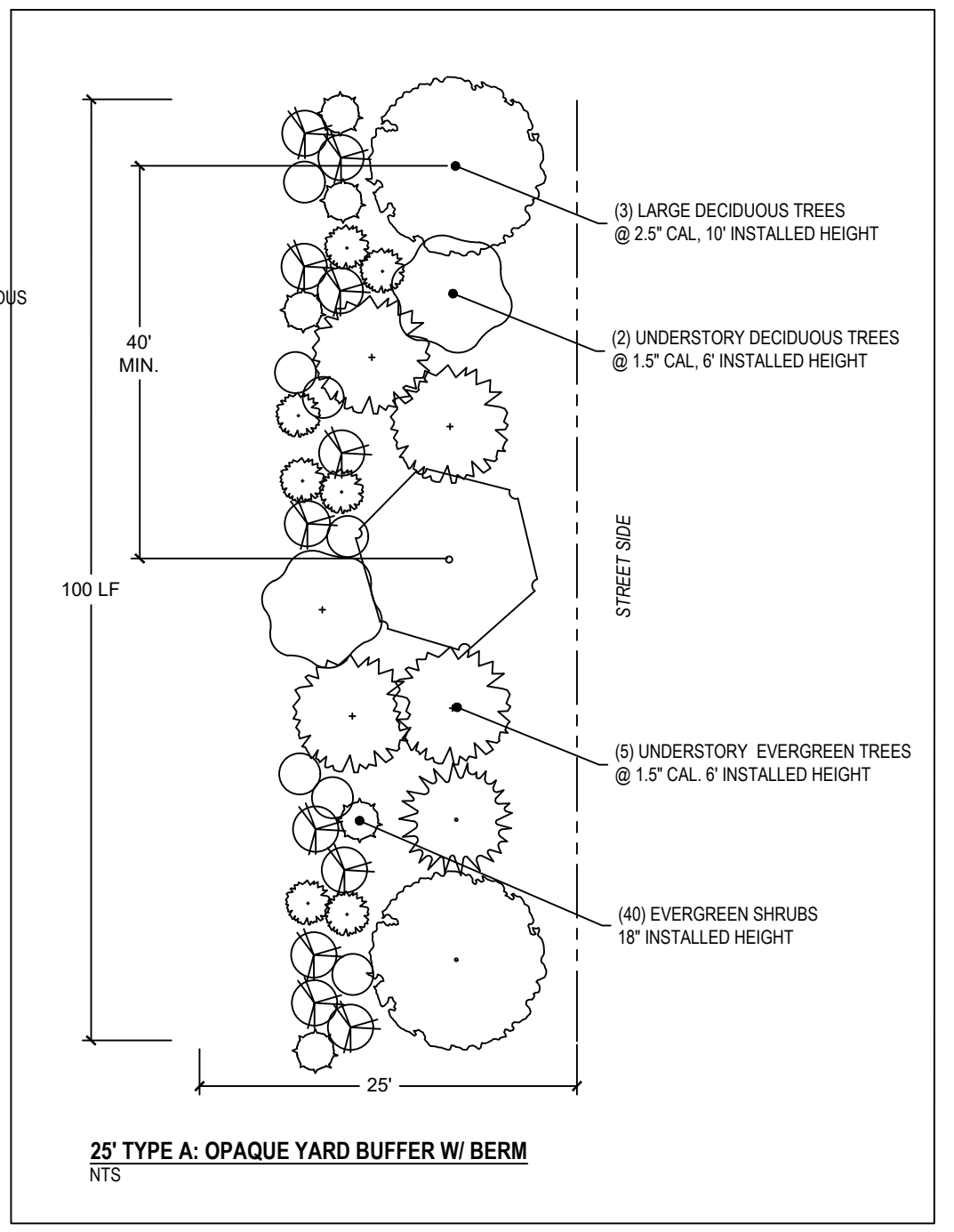
20' AND 25' TYPE A:  
 OPAQUE TYPE A  
 THIS BUFFER FUNCTIONS AS AN OPAQUE SCREEN FROM THE GROUND TO A HEIGHT OF AT LEAST SIX FEET. PLANTINGS OF DECIDUOUS AND EVERGREEN TREES ARE EXPECTED TO REACH A HEIGHT OF NO LESS THAN 20 FEET AND TO HAVE NO UNOBSTRUCTED OPENINGS WIDER THAN TEN FEET BETWEEN TREE CANOPIES AT MATURITY.

THE TYPE "A" BUFFER SHALL INCLUDE A WALL, AN OPAQUE FENCE, LANDSCAPED EARTHEN BERM, EXISTING OR PLANTED VEGETATION, OR ANY APPROPRIATE COMBINATION OF THESE ELEMENTS WHICH WILL CREATE THE DESIRED SPATIAL SEPARATION BETWEEN LAND USES. AT LEAST 50 PERCENT OF THE REQUIRED TREES AND SHRUBS MUST BE OF THE EVERGREEN SPECIES. SHRUBBERY IS TO BE PLANTED SUFFICIENTLY CLOSE TOGETHER TO FORM AN OPAQUE SCREEN WITHIN THREE YEARS AFTER PLANTING.

**STREET TREES**  
 REQUIRED: SHADE TREES 40' OC OR UNDERSTORY TREES 20' OC

<b>DARE DR</b> 7,650 LF 191.25 SHADE TREES REQUIRED 35 SHADE TREES PROVIDED*	<b>BRUNSWICK DR</b> 1,650 LF 41.25 SHADE TREES REQUIRED 35 SHADE TREES PROVIDED* 12 UNDERSTORY TREES PROVIDED	<b>ROAD 5</b> 450 LF 11.25 SHADE TREES REQUIRED 13 SHADE TREES PROVIDED
<b>CARTERET RD</b> 6,750 LF 168.75 SHADE TREES REQUIRED 165 SHADE TREES PROVIDED* 8 UNDERSTORY TREES PROVIDED	<b>AVERY LANE</b> 750 LF 18.75 SHADE TREES REQUIRED 20 SHADE TREES PROVIDED	<b>CALDWELL DR</b> 950 LF 23.75 SHADE TREES REQUIRED 25 SHADE TREES PROVIDED
<b>DAVIE RD</b> 1500 LF 37.5 SHADE TREES REQUIRED 37 SHADE TREES PROVIDED*	<b>HYDE DR</b> 450 LF 11.25 SHADE TREES REQUIRED 12 SHADE TREES PROVIDED	<b>CATAWBA DR</b> 1250 LF 31.25 SHADE TREES REQUIRED 30 SHADE TREES PROVIDED*

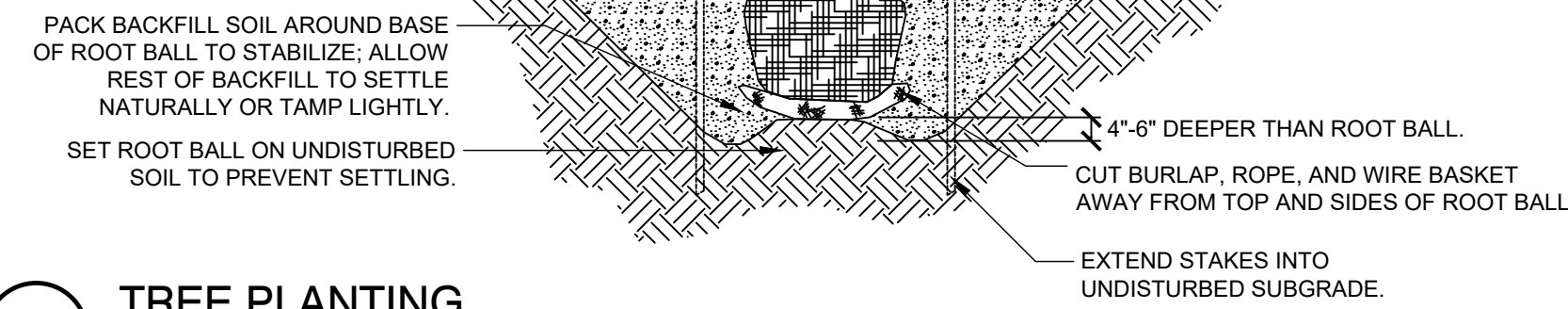
\*SIGHT DISTANCE TRIANGLES AND LIGHT POLES PREVENT ADDITIONAL TREES FROM BEING PLANTED.



ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ROLESVILLE, CITY OF RALEIGH, NCDEQ AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS

**NOTES:**

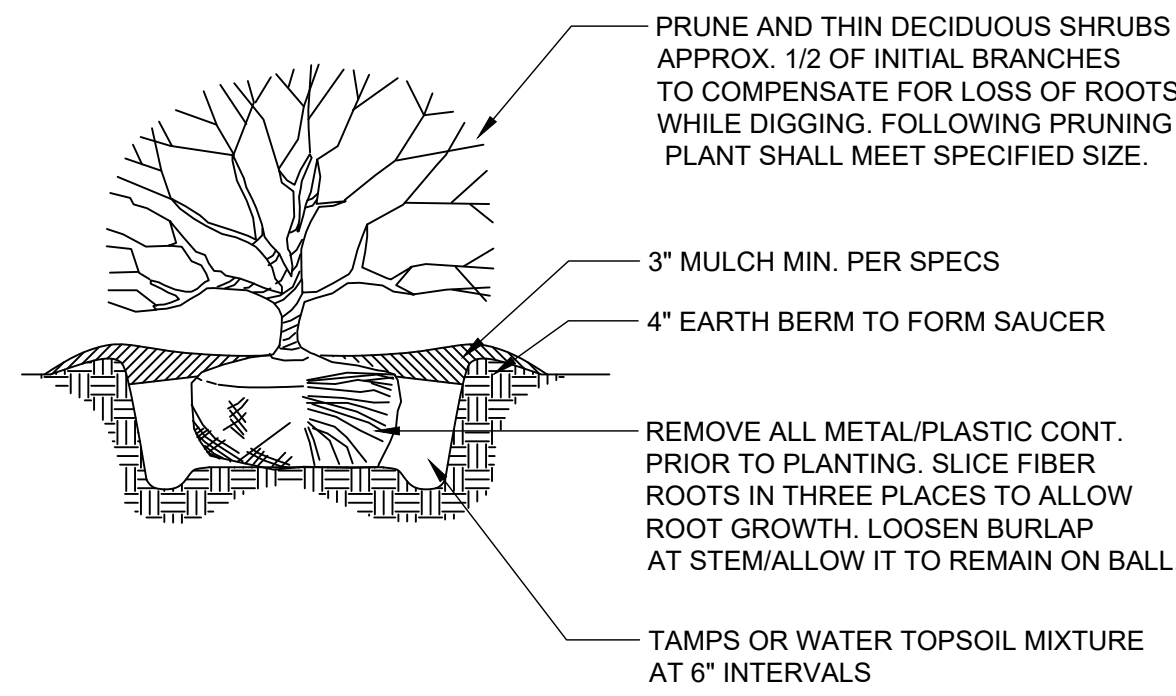
- WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE, TILL IN SOIL AMENDMENTS TO A DEPTH OF 4'-6" (10-15CM) OVER THE ENTIRE AREA.
- FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
- DURING THE DESIGN PHASE, CONFIRM THAT WATER DRAINS OUT OF THE SOIL; USE LOWERED PLANTING HOLE DEPTH AND DESIGN ALTERNATE DRAINAGE SYSTEM AS REQUIRED.
- THOROUGHLY SOAK ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
- DO NOT WRAP TRUNK; MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
- AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING. OTHERWISE, DO NOT PRUNE TREE AT PLANTING EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS.
- BEFORE PLANTING, ADD 3-4" OF WELL-COMPOSTED LEAVES, RECYCLED YARD WASTE OR OTHER COMPOST AND TILL INTO TOP 6" OF PREPARED SOIL. ADD COMPOST AT 20-35% BY VOLUME TO BACKFILL SOIL.



**1 TREE PLANTING**  
NTS

**LANDSCAPE NOTES:**

- ALL PLANT MATERIAL INSTALLED MUST MEET STANDARDS SET BY AMERICAN ASSOCIATION OF NURSERYMEN, INC., "STANDARDS FOR NURSERY STOCK."
- THE MINIMUM NUMBER OF PLANTS REQUIRED, REGARDLESS OF AREA CALCULATIONS, IS (3) TREES AND (20) SHRUBS.
- PLANTING AREAS SHALL BE PERMANENTLY PROTECTED FROM DAMAGE BY VEHICULAR TRAFFIC THROUGH THE USE OF CURBING AND/OR WHEEL STOPS. WHEEL STOPS SHALL BE USED IN PARKING AREAS WHERE:
  - CURBING HAS NOT BEEN USED OR IS LESS THAN 6" IN HEIGHT.
  - PROPOSED NEW TREES AND SHRUBS ARE PLANTED WITHIN 5' FROM ADJACENT CURBING OR EDGE OF VEHICULAR SURFACE AREA PAVING.
- A CERTIFICATE OF OCCUPANCY SHALL BE ISSUED ONLY WHEN ALL PLANTINGS HAVE BEEN INSTALLED AND ALL THE WORK SHOWN ON THE APPROVED LANDSCAPE PLAN HAS BEEN COMPLETED. SUBSTANTIAL CHANGES IN PLANTINGS WHICH HAVE CHANGED THE INTENT OF THE APPROVED PLANS AND CHANGED THE CREDIT TOTALS USED TO MEET THE ORDINANCE REQUIREMENTS SHALL BE REVIEWED BY THE TOWN STAFF FOR COMPLIANCE PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
- WHERE SUPPLEMENTAL PLANTING IS REQUIRED IN BUFFERS, THE PLANNING DIRECTOR SHALL HAVE THE AUTHORITY TO SPECIFY THE LOCATION TO ACCOUNT FOR AND PROVIDE MAXIMUM SCREENING IN THE EVENT OF SIGNIFICANT GRADE DIFFERENCES BETWEEN PROPERTIES TO WHICH THE BUFFER STANDARD APPLIES. PROPOSED VEGETATION SHALL ADHERE TO THE FOLLOWING BUFFER PLANTING REQUIREMENTS:
  - IN CALCULATING BUFFER PLANTING REQUIREMENTS, AREAS OF DRIVEWAYS AND SIGHT DISTANCE TRIANGLES SHALL BE EXCLUDED.
  - DECIDUOUS OVERSTORY TREES, SMALL TREES OR LARGE SHRUBS, EVERGREEN SHRUBS AND EVERGREEN TREES SHALL BE DISTRIBUTED ALONG THE ENTIRE LENGTH OF THE BUFFER. DUE TO UNIQUE CHARACTERISTICS OF A SITE, OR DESIGN OBJECTIVES, ALTERNATIVE DESIGNS THAT ACHIEVE THE REQUIRED SCREENING MAY BE APPROVED BY THE PLANNING DIRECTOR.
  - NO SCREENING OR BUFFERING SHALL INTERFERE WITH THE SIGHT DISTANCE TRIANGLES REQUIRED FOR SAFE TRAFFIC MOVEMENTS AT DRIVEWAY OR STREET INTERSECTIONS.
  - PLANTINGS MUST NOT CREATE ANY VISUAL OBSTRUCTION BETWEEN 30" AND 7' IN HEIGHT WITHIN SIGHT DISTANCE TRIANGLES.
  - THE PRUNING OF VSA SCREENING SHRUBS SHALL ALLOW LATERAL GROWTH OF BRANCHES AS TO FORM A HEDGE.
- ALL LANDSCAPE ISLANDS SHALL BE GRADED FOR POSITIVE DRAINAGE WITH NO LOW SPOTS ALLOWING WATER TO BE TRAPPED

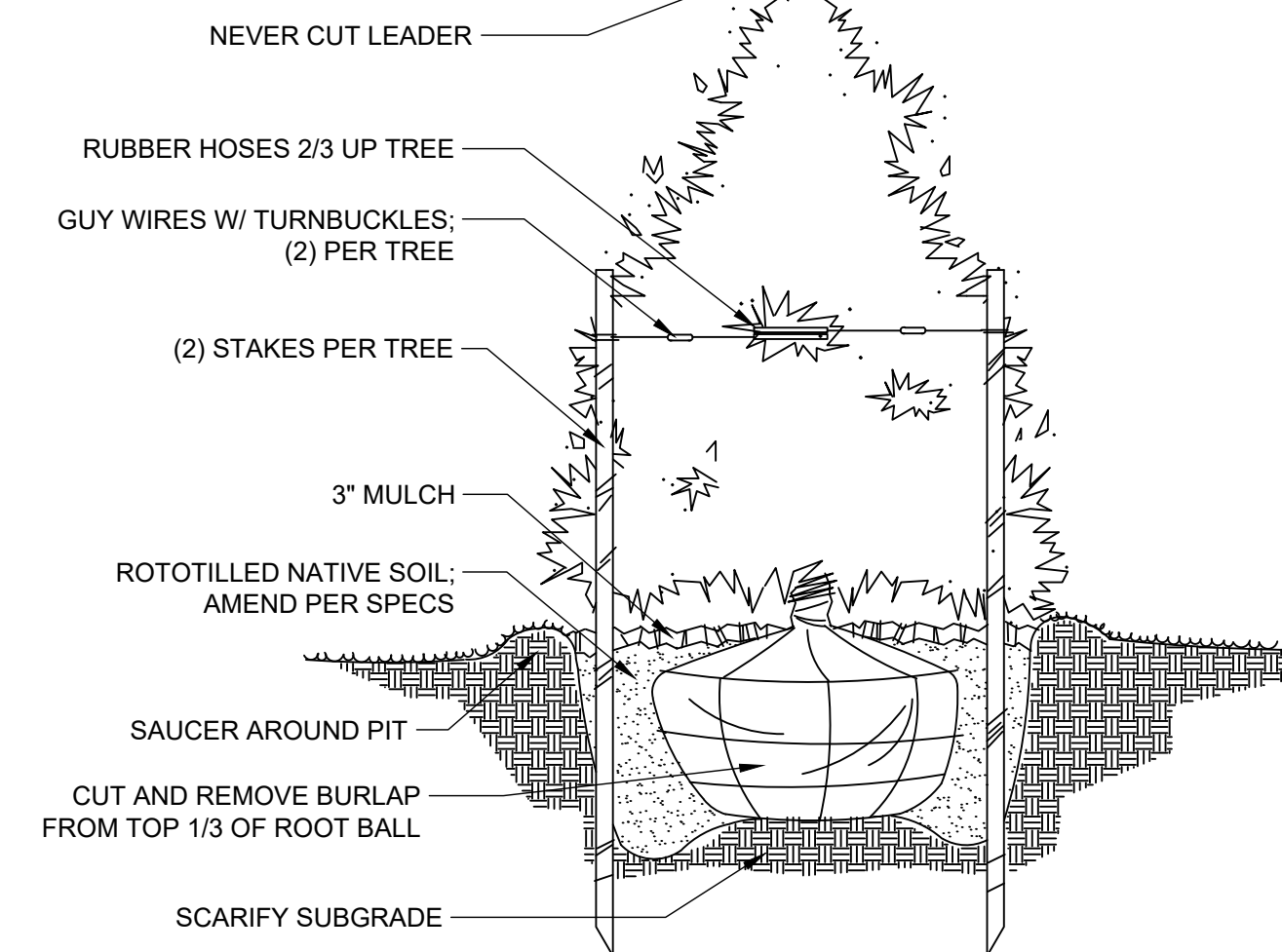


- NOTES:**
- SOIL MIX: 1/3 ORGANIC MATTER, 2/3 EXIST SOIL.
  - WIDTH OF PLANT PIT: SANDY SOIL, 24" WIDER THAN PLANT BALL; CLAY SOIL, 12" WIDER THAN PLANT BALL.
  - FOR PLANTING AREAS WHERE SOIL HAS BEEN COMPACTED BY EQUIP. CONTACT LA PRIOR TO PLANTING.
  - FOR CAMELLIAS, RHODOS, AZALEAS, AND LAURELS: SOIL MIX, 2/3 ORGANIC AND 1/3 EXISTING SOIL
  - SHRUB SHALL BEAR SAME RELATIONSHIP TO GRADE AS IT DID PRIOR TO DIGGING.

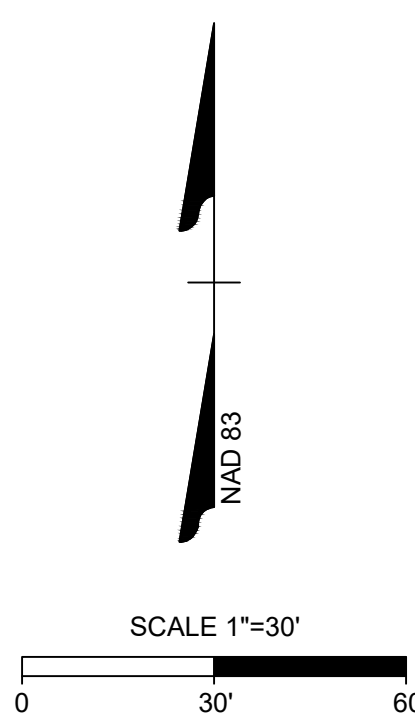
**2 SHRUB PLANTING**  
NTS

**NOTES:**

- Tree shall have same relation to grade as it had in nursery



**3 EVERGREEN PLANTING**  
NTS



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SCALE  
**AS SHOWN**

**TIMMONS GROUP**  
NORTH CAROLINA LICENSE NO. C-1652

**ROLESVILLE CROSSING - CD 21-08**  
ROLESVILLE - WAKE COUNTY - NORTH CAROLINA

**LANDSCAPE NOTES & DETAILS 2**

JOB NO.  
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