

ENGINEER:
COLLIERS ENGINEERING & DESIGN, INC.
5275 PARKWAY PLAZA BOULEVARD, SUITE 100
CHARLOTTE, NC 28217
CONTACT: CASEY WHITEMAN, PE
EMAIL: CASEY.WHITEMAN@COLLIERSENG.COM
(877) 627-3772 MAIN

SURVEYOR:
DEKTA LAND SERVICES
CONTACT: MICHAEL GREEN, JR
EMAIL: CHANDLER@DELTALANDSERVICES.NET
(704) 847-4700

DEVELOPER:
KEYSTONE HOMES
CONTACT: KEITH FENN, PE
EMAIL: KFENN@KEYSTONECUSTOMEHOME.COM
(980) 269-6609
2030 AIRPORT FLEX DRIVE, SUITE R
CHARLOTTE, NC 28208

WATER AND SEWER:
UNION COUNTY WATER
(704) 296-4210

GAS SERVICE:
PIEDMONT NATURAL GAS
 (800) 752-7504

ELECTRIC SERVICE:
UNION POWER
(704) 289-3145

SHT. No.	DESCRIPTION
--	TREE SURVEY
C-000	COVER SHEET
C-001	GENERAL NOTES
C-100	EXISTING CONDITIONS
C-101	DEMOLITION PLAN
C-200	SITE LAYOUT PLAN
C-201	VEHICLE TURNING PLAN
C-202	TRAFFIC CONTROL PLAN
C-300	GRADING & DRAINAGE PLAN
C-301	STORMWATER MANAGEMENT PLAN
C-302	SIGHT DISTANCE PLAN
C-303	ROAD ELEVATIONS HORIZONTAL
C-304	ROAD PROFILES
C-400	UTILITIES SKETCH PLAN
C-401	UTILITIES PROFILE
C-500	SOIL EROSION & SEDIMENT CONTROL PLAN PHASE I
C-502	SOIL EROSION & SEDIMENT CONTROL PLAN PHASE II
C-503	SOIL EROSION & SEDIMENT CONTROL DETAILS
C-504	SOIL EROSION & SEDIMENT CONTROL DETAILS
C-505	SOIL EROSION & SEDIMENT CONTROL DETAILS
C-600	TREE REMOVAL PLAN
C-601	PLANTING PLAN
C-602	LANDSCAPE DETAILS
C-700	LIGHTING PLAN
C-701	LIGHTING DETAILS
C-800	SITE DETAILS
C-801	STORM DRAINAGE DETAILS
C-802	WATER DETAILS
C-803	SANITARY SEWER DETAILS

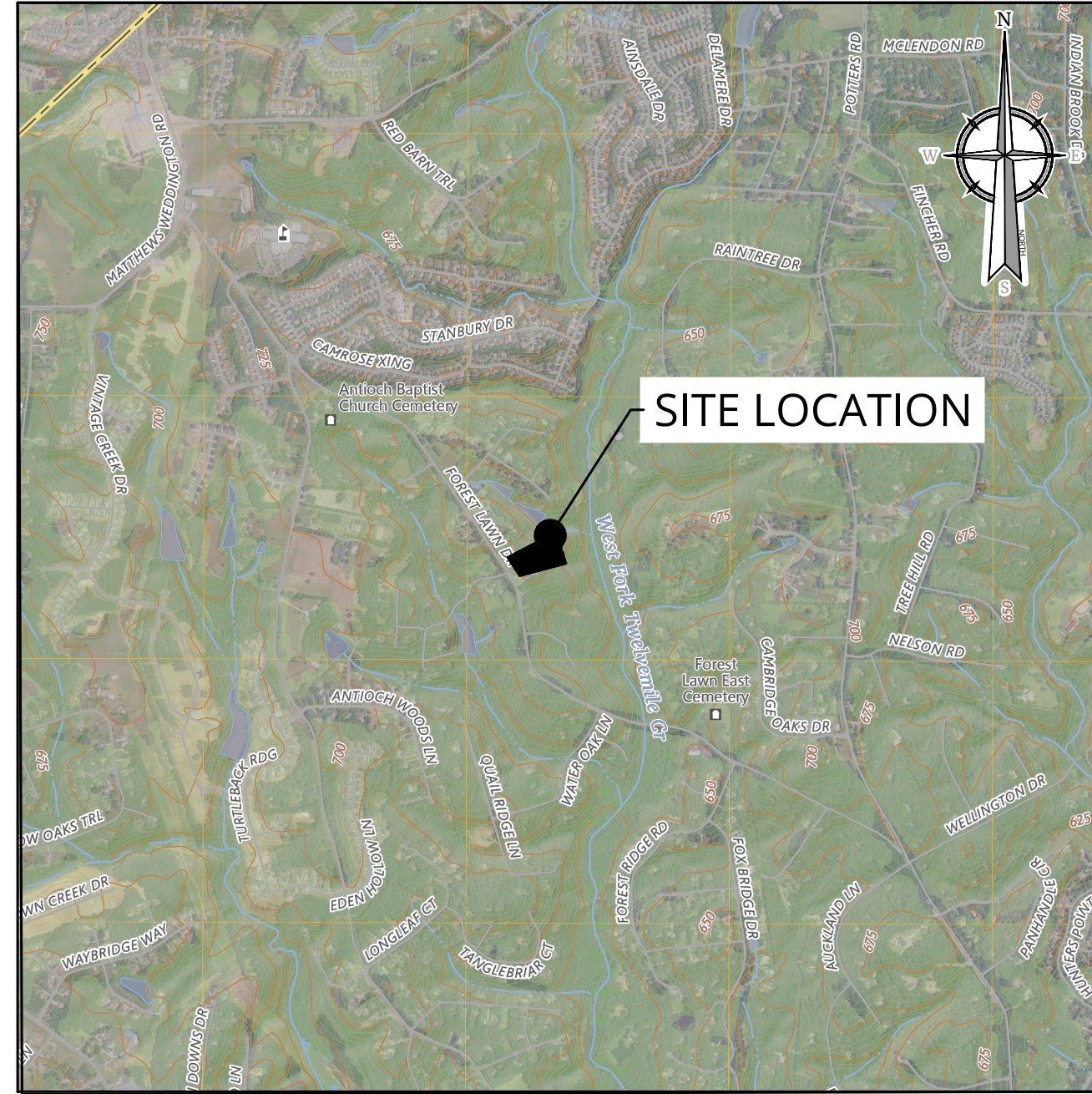
This aerial map displays the project site location. The site is indicated by a black dot and a hatched polygon at the intersection of Walden Ln and Greylin Dr. Other visible streets include Eirlys Ln, Greylin Dr, Carole Ct, and Walden Ln. A north arrow is located in the top right corner of the map.

SOURCE: GEOLOCATION

300 0 300

SCALE : 1" = 300'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)



U.S.G.S 7.5 MIN. TOPOGRAPHIC QUADRANGLE,
NORTH CAROLINA

1000 0 1000

SCALE : 1" = 1000'

Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

**Engineering
& Design,**
Architecture, Landscape
Architecture, Surveying, CT P.C.
www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as 



PROTECT YOURSELF

FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	12-1-82	W	
2	1-1-82	W	
3	1-1-82	W	
4	1-1-82	W	
5	1-1-82	W	
6	1-1-82	W	
7	1-1-82	W	
8	1-1-82	W	
9	1-1-82	W	
10	1-1-82	W	
11	1-1-82	W	
12	1-1-82	W	
13	1-1-82	W	
14	1-1-82	W	
15	1-1-82	W	
16	1-1-82	W	
17	1-1-82	W	
18	1-1-82	W	
19	1-1-82	W	
20	1-1-82	W	
21	1-1-82	W	
22	1-1-82	W	
23	1-1-82	W	
24	1-1-82	W	
25	1-1-82	W	
26	1-1-82	W	
27	1-1-82	W	
28	1-1-82	W	
29	1-1-82	W	
30	1-1-82	W	
31	1-1-82	W	
32	1-1-82	W	
33	1-1-82	W	
34	1-1-82	W	
35	1-1-82	W	
36	1-1-82	W	
37	1-1-82	W	
38	1-1-82	W	
39	1-1-82	W	
40	1-1-82	W	
41	1-1-82	W	
42	1-1-82	W	
43	1-1-82	W	
44	1-1-82	W	
45	1-1-82	W	
46	1-1-82	W	
47	1-1-82	W	
48	1-1-82	W	
49	1-1-82	W	
50	1-1-82	W	
51	1-1-82	W	
52	1-1-82	W	
53	1-1-82	W	
54	1-1-82	W	
55	1-1-82	W	
56	1-1-82	W	
57	1-1-82	W	
58	1-1-82	W	
59	1-1-82	W	
60	1-1-82	W	
61	1-1-82	W	
62	1-1-82	W	
63	1-1-82	W	
64	1-1-82	W	
65	1-1-82	W	
66	1-1-82	W	
67	1-1-82	W	
68	1-1-82	W	
69	1-1-82	W	
70	1-1-82	W	
71	1-1-82	W	
72	1-1-82	W	
73	1-1-82	W	
74	1-1-82	W	
75	1-1-82	W	
76	1-1-82	W	
77	1-1-82	W	
78	1-1-82	W	
79	1-1-82	W	
80	1-1-82	W	
81	1-1-82	W	
82	1-1-82	W	
83	1-1-82	W	
84	1-1-82	W	
85	1-1-82	W	
86	1-1-82	W	
87	1-1-82	W	
88	1-1-82	W	
89	1-1-82	W	
90	1-1-82	W	
91	1-1-82	W	
92	1-1-82	W	
93	1-1-82	W	
94	1-1-82	W	
95	1-1-82	W	
96	1-1-82	W	
97	1-1-82	W	
98	1-1-82	W	
99	1-1-82	W	
100	1-1-82	W	

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. #: C-4746

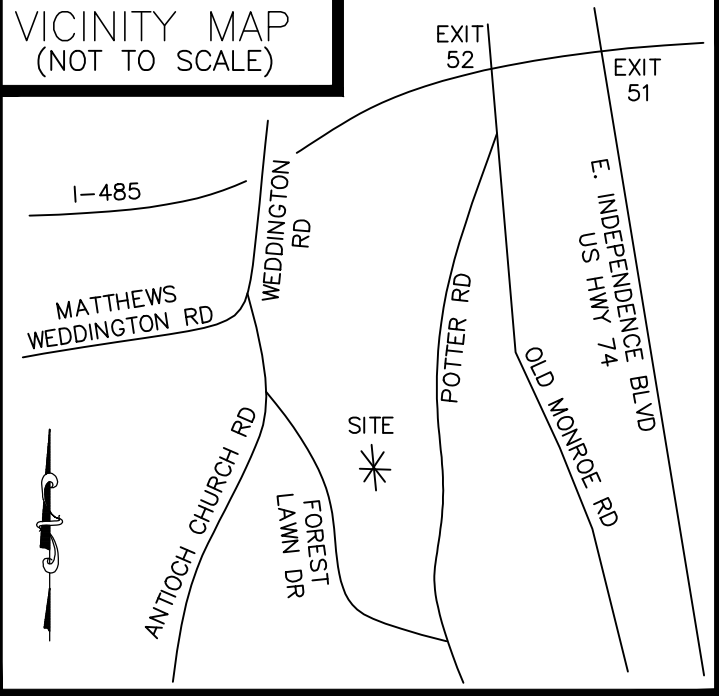
PIN 07150015
3009 FOREST LAWN DRIVE
WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers
Engineering
& Design,
Architecture, Landscape
Architecture, Surveying, C.T.P.C.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	09/25/25	NWB	CW
PROJECT NUMBER:		DRAWING NAME:	
25003536A		C-CVER	

SHEET NUMBER: C-000

VICINITY MAP
(NOT TO SCALE)



LINE/TYPE	LEGEND
BOUNDARY LINE	---
BOUNDARY TIE LINE	---
ADJOINING BOUNDARY LINE (NOT SURVEYED)	---
RIGHT-OF-WAY	---
OVERHEAD UTILITY LINES	---
BASE FLOOD ELEVATION	---
FEMA CROSS SECTIONS	---
SANITARY SEWER LINE	---
45' ROAD R/W	---
WATER LINE	---

SYMBOL LEGEND

FOUND	○
SET	●
CP	○
SSMH	○
UP	○
GW	○
T-PED	○
CO	○
FO MRKR	○
FO UG-BOX	○
E-BOX	○
WM	○
WV	○
FH	○
CONTROL	○
TREE	○

NOTATION LEGEND

AC	AIR CONDITIONER
BFP	BACK FLOW PREVENTION
CL	CENTERLINE
CO	CLEAN OUT
CP	CALCULATED POINT
DB	DEED BOOK
E-BOX	ELECTRIC BOX
EIP	EXISTING IRON PIPE
EIR	EXISTING IRON REBAR
EOP	EDGE OF PAVEMENT
FH	FIRE HYDRANT
FO	FIBER OPTIC
GW	GUY WIRE
MB	MAP BOOK
MRKR	MARKER
N/F	NOW OR FORMERLY
PG	PAGE
PC	PLAT CABINET
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
RWM	RIGHT OF WAY MONUMENT
SIR	SET IRON REBAR
SQ. FT.	SQUARE FOOT
SSMH	SANITARY SEWER MANHOLE
TBM	TEMPORARY BENCHMARK
T-PED	TELECOMMUNICATIONS PEDESTAL
UG	UNDERGROUND
UP	UTILITY POLE
WM	WATER METER
WTR	WATER
WV	WATER VALVE

SURVEYOR NOTES:

- THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS, RESTRICTIVE COVENANTS AND/OR RIGHT-OF-WAY OF RECORD
- SUBJECT BOUNDARY INFORMATION BASED ON DEED BOOK 5740, PAGE 122. ADJOINING BOUNDARY INFORMATION BASED ON DEED/MAP BOOK AND PAGES AS SHOWN ON SURVEY, RECORDED IN THE UNION COUNTY REGISTER OF DEEDS.
- BASIS OF BEARINGS: NC GRID NAD 83/2011, VERTICAL DATUM USED: NAVD88
- AREA BY COORDINATE METHOD. ALL DISTANCES SHOWN ARE HORIZONTAL AND US FEET.
- THIS PROPERTY IS LOCATED WITHIN ZONE "X" AND ZONE "AE" ACCORDING TO THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 3710448700J, DATED 10-16-2008.
- NO NCGS OR USGS MONUMENTS LOCATED WITHIN 2000' OF SUBJECT PARCEL.
- SUBJECT PROPERTY IS ZONED R-CD(WEDDINGTON) PER UNION COUNTY GIS
- SETBACKS PER TOWN OF WEDDINGTON UDO

R-CD(CONVENTIONAL)	R-CD(CONSERVATION)
50' SETBACK	40' SETBACK
15' SIDEYARD	12' SIDEYARD***
40' REARYARD	40' REARYARD

*** A SEPARATION OF 30 FEET SHALL BE MAINTAINED BETWEEN THE SIDES OF EACH DWELLING

I, T. MICHAEL GREEN, JR., PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION, DEED DESCRIPTION AND/OR MAP BOOK SEE PAGE NOTES.; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS FROM INFORMATION AS SHOWN HEREON; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; THAT THIS PLAT MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600); THAT THE GLOBAL POSITIONING SYSTEM (GPS) SURVEY AND AND THAT THE ORIGINAL DATA WAS OBTAINED ON MARCH 4TH, 2025; THAT THE SURVEY WAS COMPLETED ON JULY 29TH, 2025; THE FOLLOWING INFORMATION WAS USED TO PERFORM THE GPS SURVEY:
CLASS OF SURVEY: A
POSITIONAL ACCURACY: 0.10 US.FT.
TYPE OF GPS FIELD PROCEDURE: RTK NETWORK
DATE OF SURVEY: AUGUST 1, 2025
DATUM/EPOCH: NAD 83/2011
PUBLISHED/FIXED CONTROL USED: NGS MONUMENT "NGS UNION HM71"
GEOID MODEL: GEOID 18
COMBINED GRID FACTOR: 0.99985350
UNITS: US SURVEY FOOT

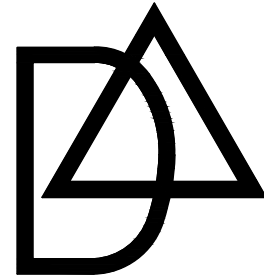
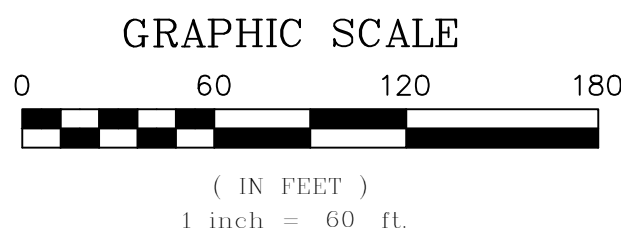
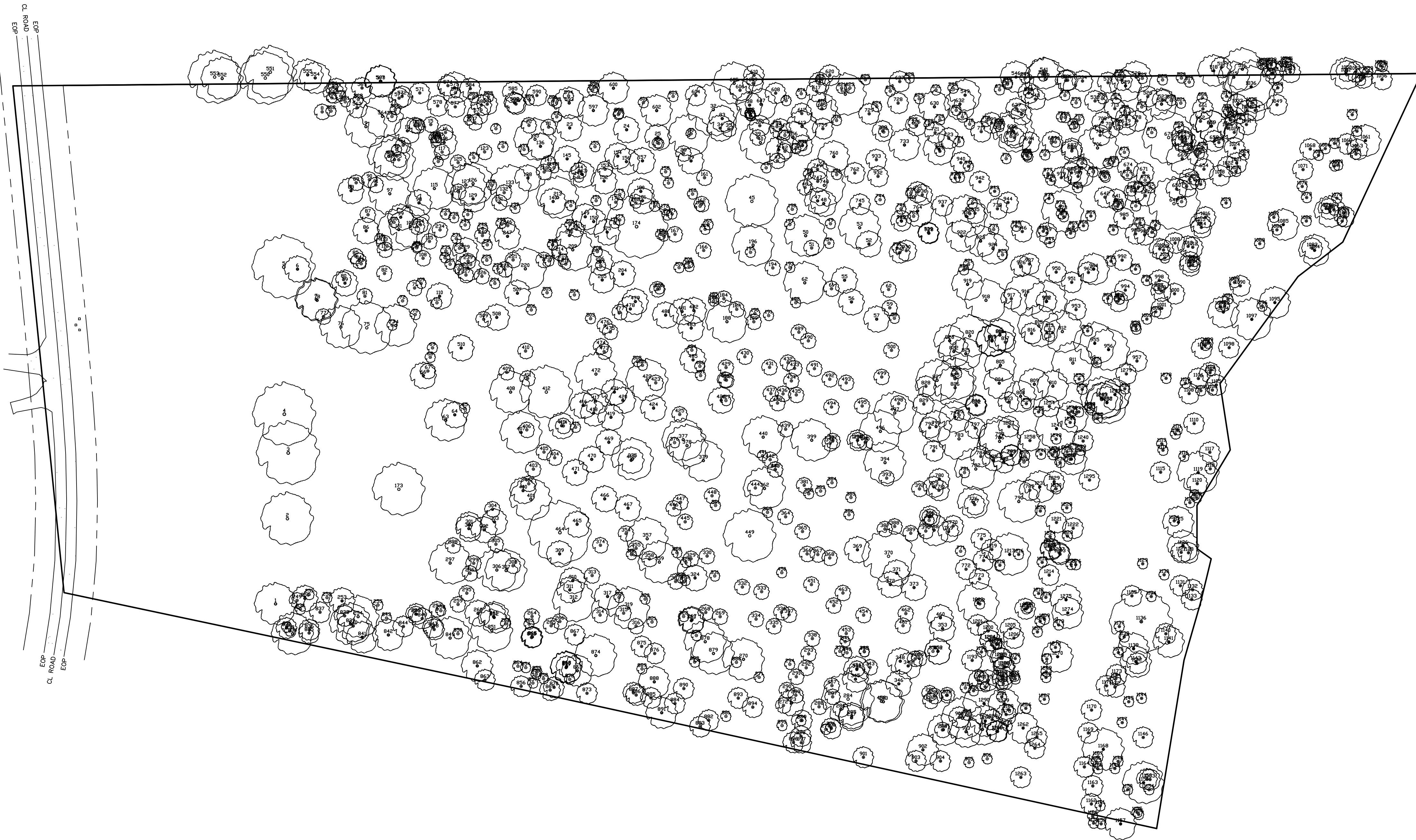
WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS ____ DAY OF _____, 2025.

PRELIMINARY
NOT FOR RECORDATION OR SALES

T. MICHAEL GREEN, JR., PLS
LICENSE NUMBER: L-4821



NAD83(2011)
NC GRID



**DELTA LAND
SERVICES, INC.**
NC FIRM LICENSE #C-735
608 MATTHEWS-
MINT HILL ROAD
SUITE G
MATTHEWS, NC 28105
T 704.847.4700
www.deltalandservices.net

SEAL:



PREPARED FOR:
KEYSTONE CUSTOM HOMES

ADDRESS: 2030 AIRPORT FLEX DRIVE,
SUITE R
CHARLOTTE, NC 28208

OWNER(S):
HELMS BRENDA PRESSLEY
HELMS RICHARD WAYNE
DB 5740 PG 122

ADDRESS:
3009 FOREST LAWN DR
MATTHEWS, NC 28104

TREE SURVEY EXHIBIT
PARCEL ID#:07150015
VANCE TOWNSHIP
UNION COUNTY, NORTH CAROLINA

SHEET NUMBER:

SHEET 1 OF 2

PROJECT NAME:
FOREST LAWN

DRAWN BY: CCM DATE: 08/01/2025

CHECKED BY: TMG SCALE: 1" = 60'

REVISION NO: DATE:

DRAWING TITLE:

3009 FOREST LAWN DRIVE
TREE SURVEY EXH.DWG

1. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
2. EXISTING PROPERTY AND TOPOGRAPHIC INFORMATION IS BASED ON SURVEY INFORMATION PROVIDED BY THE CLIENT AND DATED 04/02/2023. CONTRACTOR TO VERIFY AS-BUILT CONDITIONS PRIOR TO CONSTRUCTION AND CONTACT THE ENGINEER ON RECORD IF ANY DISCREPANCIES OCCUR.
3. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES (INCLUDING THOSE LABELED PER RECORD DATA PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
4. 72 HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE NC UTILITY PROTECTION SERVICE, AND ALL OTHER AGENCIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF NC UNDERGROUND PROTECTION, INC.
5. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
6. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNERS REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
7. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
8. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
9. ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL, OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
10. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE TOWN OF WEDDINGTON, UNION COUNTY, AND NDCQE FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS. GENERAL CONTRACTOR TO CONTACT OWNERS ENVIRONMENTAL DEPARTMENT FOR ANY ADDITIONAL OWNER RELATED REQUIREMENTS.
11. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY THE TOWN OF WEDDINGTON, UNION COUNTY & NDCQE.
12. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE AT FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDS AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE TOWN OF WEDDINGTON, UNION COUNTY REQUIREMENTS AND NDCQE EROSION CONTROL MANUAL.
13. ITEM NUMBERS REFER TO THE NC DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF UNION COUNTY.
14. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
15. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
16. BEFORE INSTALLATION OF STORM OR SANITARY SEWER, OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHEN NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION .
17. ADJUST/RECONSTRUCT ALL EXISTING CASTINGS, CLEANOUTS, ETC. WITHIN PROJECT AREA TO FINAL GRADE AS REQUIRED .
18. CONTRACTOR TO REMOVE & REPLACE PAVEMENT AS SPECIFIED.
19. ALL STANDARD PARKING PLACES ARE SIZED AS REQUIRED BY THE THE TOWN OF WEDDINGTON.
20. SITE SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE NC MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
21. ALL STOP BARS, CROSS WALKS, AND REGULATORY PAVEMENT MARKINGS SHALL BE THERMO.

GENERAL LANDSCAPE NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING NEWLY CONSTRUCTED AND EXISTING UTILITIES. HE SHALL NOTIFY THE OWNERS OF PUBLIC UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ALL UTILITIES SHALL BE PROTECTED FROM DAMAGE DURING PLANTING OPERATIONS.
2. GENERAL CONTRACTOR SHALL ERECT TREE PROTECTION FENCING. FENCING SHALL BE INSPECTED BY THE LANDSCAPE ARCHITECT OR ENGINEER PRIOR TO BEGINNING. CONTRACTOR SHALL MAINTAIN FENCING THROUGHOUT THE DURATION OF PROJECT.
3. PLANT MATERIAL SHALL MEET OR EXCEED SPECIFICATIONS AND SHALL CONFORM TO THE AMERICAN STANDARDS FOR NURSERY STOCK BOOK. THE CONTRACTOR SHALL GUARANTEE THAT THE MATERIAL INSTALLED ON SITE IS IN FACT THE MATERIAL THAT WAS SPECIFIED BY THE LANDSCAPE ARCHITECT OR ENGINEER. ANY CHANGES IN SPECIES SPECIFIED SHALL BE SUBMITTED IN WRITING TO, AND APPROVED/REJECTED BY THE LANDSCAPE ARCHITECT OR ENGINEER.
4. IN THE EVENT ANY ERROR(S) ARE FOUND ON THESE DRAWINGS OR OUT IN THE FIELD THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT OR ENGINEER BEFORE PROCEEDING WITH WORK. SHOULD THE CONTRACTOR FAIL TO CONTACT THE LANDSCAPE ARCHITECT OR ENGINEER, HE/SHE WILL BE RESPONSIBLE FOR THE COST OF ANY CORRECTION TO BE MADE.
5. ALL WORK SHALL BE PERFORMED BY FULLY QUALIFIED PLANTSMEN. USE GOOD HORTICULTURAL PRACTICES TO KEEP ALL PLANTS AND PLANT MATERIAL INSTALLED IN A LIVING, HEALTHY CONDITION UP TO THE DATE FOR TERMINATION OF THE CONTRACTOR'S RESPONSIBILITY FOR CARE.
6. THE PLANTS DELIVERED TO THE PROJECT SITE SHALL BE PLANTED AS SOON AS SITE CONDITIONS PERMIT. TAKE CARE IN SCHEDULING PLANT DELIVERIES AND THE TIME OF DELIVERIES SO THAT LONG PERIODS OF STORAGE ARE AVOIDED. ADEQUATELY PROTECT PLANTS PLACED IN TEMPORARY STORAGE FROM THE SUN AND WIND. WATER PLANTS SO AS TO MAINTAIN THEIR APPEARANCE AND HEALTH. PLANTS THAT HAVE NOT BEEN PROPERLY MAINTAINED DURING TEMPORARY STORAGE MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR ENGINEER.
7. THE OPTIMUM TIME FOR PLANTING IS FROM OCTOBER 1ST TO APRIL 1ST. SCHEDULING FOR PLANTING AT OTHER TIMES MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT OR ENGINEER.
8. THE CONTRACTOR SHALL SUBMIT CUT SHEETS TO THE LANDSCAPE ARCHITECT OR ENGINEER REGARDING ALL PLANTING MATERIALS, SEEDING, SOD, STEEL WEDGING, WOOD CONTROL MATTING, FERTILIZERS, LIMES, CHEMICALS TO BE APPLIED ON SITE AND ANY OTHER ITEM(S) RELATED TO THE LANDSCAPE OF THE SITE FOR APPROVAL PRIOR TO INSTALLATION ON SITE.
9. ALL CONTRACTORS APPLYING CHEMICALS ON SITES SHALL SUBMIT COPIES OF CERTIFICATION(S) AND LICENSES TO THE LANDSCAPE ARCHITECT OR ENGINEER.
10. PLANTING BEDS AND PLANT LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT OR ENGINEER PRIOR TO INSTALLATION. GIVE LANDSCAPE ARCHITECT OR ENGINEER 24 HOURS NOTICE PRIOR TO INSPECTION.
11. PLANTING BED SHALL BE CLEARED OF ROCK, GRASS AND WEEDS PRIOR TO INSTALLATION OF PLANTS.
12. FERTILIZE ALL PLANT MATERIAL AT INSTALLATION WITH PETER'S SLOW RELEASE 20-20-20 OR EQUIVALENT APPROVED BY LANDSCAPE ARCHITECT OR ENGINEER. APPLY PER MANUFACTURERS RECOMMENDATIONS OR APPLY 15 POUNDS PER 1,000 SQUARE FEET APPLY FERTILIZER BEFORE MULCHING.
13. ALL DISTURBED AREAS NOT OTHERWISE SEEDDED OR PLANTED SHALL BE SODDED AS DIRECTED BY THE LANDSCAPE ARCHITECT, OR ENGINEER.
14. PLANTING BEDS SHALL HAVE A 4-INCH SHREDED HARDWOOD BARK MULCH IN ENTIRE BED, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
15. ALL PLANTED AREAS SHALL BE TREATED WITH A WATER SOLUBLE HERBICIDE FOR THE NON-SELECTIVE CONTROL OF ANNUAL AND PERENNIAL WEEDS PRIOR TO PLANTING.
16. APPLY TWO POUNDS ACTUAL NITROGEN (IN SLOW RELEASE FORM) PER 1,000 SQUARE FEET TO ALL SHRUB AND TREE PLANTINGS BEFORE LAYING MULCH.
17. THE CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL AND LAWNS UNTIL THE PROJECT IS ACCEPTED BY THE LANDSCAPE ARCHITECT OR ENGINEER, UNLESS OTHERWISE SPECIFIED.
18. THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE CALENDAR YEAR FROM THE DATE THE PROJECT IS ACCEPTED.
19. ALL TREES SHALL BE FIRST QUALITY REPRESENTATIVES OF THEIR SPECIES AND SHALL MEET ALL REQUIREMENTS OTHERWISE STIPULATED. THE LANDSCAPE ARCHITECT OR ENGINEER RESERVES THE RIGHT TO REJECT PLANTED MATERIAL IN THE FIELD, AT THE GROWING SITE, OR ON THE JOB SITE.
20. THE CONTRACTOR SHALL TEST ALL PITS FOR DRAINAGE ANY TREE PIT THAT HOLDS WATER FOR MORE THAN 24 HOURS SHALL BE INSTALLED WITH TRENCH PIT DRAINAGE. DRAINAGE OF ALL PLANTING PITS AND BEDS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
21. ALL TREES AND SHRUBS SHALL BE INSTALLED ACCORDING TO THE DETAILS LOCATED IN THIS PLAN SET.
22. DISPOSE OF ALL SURPLUS MATERIAL AS DIRECTED BY THE OWNER.
23. NO CHANGES TO ANY ASPECT OF THIS DEVELOPMENT PLAN, INCLUDING BUT NOT LIMITED TO, LANDSCAPING, GRADING, ARCHITECTURAL DESIGN, LIGHTING, OR UTILITIES SHALL BE MADE WITHOUT THE APPROVAL OF UNION COUNTY.
24. THE APPLICANT HEREBY OFFERS AND CONSENTS TO INCLUSION OF ALL IMPROVEMENTS AND COMMITMENTS SHOWN ON THIS DEVELOPMENT PLAN.
25. SIGN PERMITTING IS A SEPARATE APPROVAL PROCESS AND HAS NOT BEEN REVIEWED OR APPROVED WITH THIS DEVELOPMENT PLAN.

1. ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET AND/OR PROJECT SPECIFICATIONS. THIS INCLUDES FOUNDATION SLABS, AND WALLS AND FOOTINGS. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE BACKFILLED WITH SATISFACTORY MATERIALS AND COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATION.
2. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD BY THE CONTRACTOR.
3. NO TREES SHALL BE REMOVED, NOR VEGETATION DISTURBED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.
4. TREE PROTECTION FENCING SHALL BE IN ACCORDANCE WITH THE TOWN OF WEDDINGTON STANDARDS - OR - IN ACCORDANCE WITH THE DETAIL FD DRAWINGS. DO NOT OPERATE OR STORE EQUIPMENT, NOR HANDLE OR STORE MATERIALS WITHIN THE DRIP LINES OF THE TREES SHOWN TO REMAIN.
5. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF BARK, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
6. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR DAMAGE ACCORDING TO THE APPROPRIATE UTILITY COMPANY STANDARDS AT THE CONTRACTOR'S EXPENSE.
7. ALL UTILITY DISCONNECTION, REMOVAL, RELOCATION, CUTTING CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY / AGENCY.
8. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED.
9. EROSION & SEDIMENT CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE PROPERLY INSTALLED AND FUNCTION PROPERLY PRIOR TO INITIATING DEMOLITION ACTIVITIES .
10. ASBESTOS OR HAZARDOUS MATERIALS ARE NOT EXPECTED OR ANTICIPATED. IF FOUND ON SITE, SUCH MATERIALS SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
11. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSRA REGULATIONS DURING ALL DEMOLITION ACTIVITIES.
12. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
13. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND FEATURES TO REMAIN. ANY ITEMS TO REMAIN THAT HAVE BEEN DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
14. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH NC DEPARTMENT OF TRANSPORTATION REGULATIONS AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
15. PROVIDE NEAT, STRAIGHT, FULL DEPTH, SAW CUTS OF EXISTING PAVEMENT WHERE INDICATED ALONG LIMITS OF PAVEMENT DEMOLITION.
16. ALL UTILITY AND STRUCTURE REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED AND PROPERLY DOCUMENTED BY A CERTIFIED PROFESSIONAL, WHEN APPLICABLE, WITH THE APPROPRIATE UTILITY COMPANY, MUNICIPALITY, AND/OR AGENCY. DEMOLITION OF REGULATED ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO WELLS, ASBESTOS, UNDER GROUND STORAGE TANKS, SEPTIC TANKS AND ELECTRIC TRANSFORMERS. DEMOLITION CONTRACTOR SHALL REFER TO ANY ENVIRONMENTAL STUDIES FOR DEMOLITION RECOMMENDATIONS AND GUIDANCE AVAILABLE. ENVIRONMENTAL STUDIES MAY INCLUDE, BUT ARE NOT LIMITED TO PHASE I ESA, PHASE II, WETLAND AND STREAM DELINEATION, AND ASBESTOS SURVEY. ALL APPLICABLE ENVIRONMENTAL STUDIES SHALL BE MADE AVAILABLE UPON REQUEST.
17. ALL PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC. WITHIN THE AREA TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH. EXISTING BASE COURSE MATERIALS MAY BE WORKED INTO THE NEW PAVEMENT OR BUILDING SUBGRADE IF THE GRADATION, CONSISTENCY, COMPACTION, SUBGRADE CONDITION, ETC., ARE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF THE REPORT OF GEOTECHNICAL INVESTIGATION. BASE COURSE MATERIALS SHALL NOT BE WORKED INTO THE SUBGRADE AREAS TO RECEIVE LANDSCAPING.
18. THE CONTRACTOR SHALL USE SUITABLE METHODS TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION ACTIVITIES.

1. THE QUANTITIES INDICATED ON THE PLANT MATERIALS SCHEDULE ARE PROVIDED FOR THE BENEFIT OF THE LANDSCAPE CONTRACTOR WHO SHALL NOT BE ASSUMED TO BE CORRECT. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE QUANTITIES INDICATED. ANY DISCREPANCIES NOTED SHALL BE REPORTED TO THE ATTENTION OF THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION. IN THE EVENT OF A DISCREPANCY, THE DRAWINGS SHALL GOVERN.
2. NO SUBSTITUTIONS AS TO SIZE, TYPE, SPECIES, QUANTITY OR QUALITY OF PLANT MATERIAL SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT OR ENGINEER. CHANGES IN PLANT MATERIAL MAY REQUIRE RE-APPROVAL BY LOCAL AUTHORITIES. CONTRACTOR IS NOT TO SEEK RE-APPROVAL WITHOUT EXPRESS WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT OR ENGINEER.
3. ALL PLANTS MUST BE NURSERY GROWN, HEALTHY, VIGOROUS, AND FREE FROM ALL PESTS AND DISEASE. BALL AND BURLAP (B&B) OR CONTAINER GROWN AS SPECIFIED IN THE MATERIALS SCHEDULE. ALL PLANT SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60, LATEST EDITION FOR SIZE AND QUALITY.
4. ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED, AND MEET THE MINIMUM REQUIREMENTS. TREES WITH A "Y" SHAPE ARE NOT ACCEPTABLE. REFER TO THE WRITTEN SPECIFICATIONS.
5. ALL PLANTS ARE SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT OR ENGINEER, AND OR OWNERS REPRESENTATIVE AT ANY TIME PRIOR TO FINAL ACCEPTANCE.
6. ALL TREES 2-INCH CALIPER AND LARGER SHALL BE STAKED AND GUYED AS SPECIFIED. STAKE AND GUY MATERIAL SHALL BE REMOVED BY THE LANDSCAPE CONTRACTOR 12 MONTHS AFTER FINAL ACCEPTANCE.
7. THE DIMENSIONS FOR HEIGHT, SPREAD, AND CALIPER AS SPECIFIED IN THE PLANT MATERIALS SCHEDULE ARE THE MINIMUM DESIRED FOR EACH PLANT. EACH PLANT SHALL BE UNIFORM AND CONSISTENT AS IT PERTAINS TO THE SPECIFICATIONS AND THE INDIVIDUAL SPECIES. ANY PLANT MATERIAL WHICH FAILS THESE SPECIFICATIONS WILL BE REJECTED. THE CONTRACTOR SHALL PROVIDE ACCEPTABLE MATERIAL AT NO ADDITIONAL COST TO THE OWNER. CALIPER SIZE IS NOT TO BE REDUCED. TREES THAT FAIL MINIMUM CALIPER SIZE AS MEASURED IN THE FIELD WILL BE REJECTED AND REPLACEMENTS SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CALIPER MEASUREMENTS SHALL BE MADE IN ACCORDANCE WITH ANSI STANDARDS.
8. PRIOR TO COMMENCEMENT OF INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND PROVIDING DAMAGE PREVENTION UTILITIES DURING INSTALLATION. ANY UTILITIES DAMAGED DURING INSTALLATION SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR TO THE SATISFACTION OF THE APPROPRIATE UTILITY COMPANY. ALL REPAIRS SHALL BE AT NO COST TO THE OWNER. NO TREES SHALL BE PLANTED WITHIN 10' OF SITE UTILITY LINES. FIELD ADJUST AS NECESSARY AFTER LANDSCAPE ARCHITECT'S OR ENGINEER'S APPROVAL.
9. THE LANDSCAPE CONTRACTOR SHALL FIELD STAKE ALL PLANT LOCATIONS PRIOR TO INSTALLATION. THE LANDSCAPE ARCHITECT OR ENGINEER SHALL APPROVE ALL STAKED LOCATIONS PRIOR TO INSTALLATION. PLANTS INSTALLED PRIOR TO APPROVAL BY THE LANDSCAPE ARCHITECT OR ENGINEER ARE SUBJECT TO REJECTION AND/OR REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER.
10. PRE-EMERGENT HERBICIDES, TRIFLURALIN OR EPTAM, SHALL BE APPLIED TO ALL PLANTING BEDS. APPLY AT MANUFACTURERS RECOMMENDATIONS. HERBICIDES SHALL BE INCORPORATED INTO THE SOIL MIXES.
11. APPLY ROOT STIMULATOR, CONTAINING MYCORRHIZAE, TO ALL PLANTS PRIOR TO BACK FILLING. APPLY AT MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUBMIT SAMPLES OF ROOT STIMULATOR TO THE LANDSCAPE ARCHITECT OR ENGINEER FOR APPROVAL PRIOR TO USE.
12. SEEDING: EVENLY APPLY THE TEMPORARY/PERMANENT SEED MIXTURES USING HYDROSEEDING, BROADCAST, OR DRILL SEEDING METHODS THAT PLANT SEED LESS THAN 3/16-INCH BELOW THE GROUND SURFACE. APPLY LEGUME SEED INOCULANTS SPECIFICALLY MADE FOR THE LEGUME SEED TYPE BEING APPLIED AT FIVE TIMES THE MANUFACTURERS RECOMMENDED RATE. USE NO SEED OR INOCULANT THAT HAS BEEN IMPROPERLY STORED, OR SEED OLDER THAN 18 MONTHS FROM THE SEED TEST DATE. IF HYDROSEEDING METHODS ARE USED SEED, INOCULANTS, FERTILIZERS, AND POLYMER TACKIFIER/SOL STABILIZER MAY BE APPLIED IN ONE APPLICATION, PROVIDED THAT SEED AND INOCULANTS ARE NOT HELD IN A SLURRY WITH FERTILIZERS FOR MORE THAN ONE HOUR.
13. ALL DISTURBED AREAS THAT DO NOT RECEIVE MULCH OR OTHER SPECIFIED IMPROVEMENTS ARE TO BE FINE GRADED TO TRANSITION SMOOTHLY INTO ADJACENT GRASSES AND RECEIVE THE FOLLOWING PERMANENT SEED MIX IF NO OTHER PERMANENT SEED MIX IS PROVIDED: PERMANENT SEED MIX SHALL MATCH THE EXISTING LAWN TYPE AND CONSIST OF A MINIMUM 4 NAMED VARIETIES OF EACH SEED TYPE. SUBMIT THE SEED MIX TO THE LANDSCAPE ARCHITECT OR ENGINEER FOR APPROVAL PRIOR TO SEEDING.
14. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANTINGS FOR A PERIOD OF ONE (1) YEAR BEGINNING UPON THE WRITTEN DATE OF FINAL COMPLETION OF THE PROJECT. ANY PLANTS SUBJECT TO REPLACEMENT SHALL BE MADE AT THE END OF THE WARRANTY PERIOD OR AT TIME AS DETERMINED BY THE OWNERS REPRESENTATIVE. ALL PLANTS MUST BE ALIVE AND HEALTHY FOR REVIEW AND APPROVAL BY LOCAL AUTHORITIES AS APPROPRIATE FOR OCCUPANCY PERMIT.
15. THE LANDSCAPE CONTRACTOR SHALL UTILIZE ON-SITE TOPSOIL AS AVAILABLE FROM THE CONTRACTOR. ALL IMPORTED TOPSOIL SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO PLACEMENT.
16. EXISTING GRASS TO BE REMOVED, IF PRESENT, AND TOPSOIL TO BE SPREAD SMOOTH AND HAND-RAKED TO REMOVE ALL ROCKS AND DEBRIS LARGER THAN 1-INCH IN DIAMETER PRIOR TO LAYING SOIL OR SEEDING.
17. ALL TREE, SHRUB AND GROUND COVER BEDS (EXISTING AND NEW) TO BE MULCHED WITH A MINIMUM OF 3 INCHES OF AGED, SHREDED HARDWOOD BARK.
18. THE TYPICAL PLANTING SOIL BACKFILL MIX FOR BEDS AND PLANT BACKFILL SHALL CONSIST OF THE FOLLOWING: 2/3 SITE SOIL 1/3 SOIL AMENDMENTS (BY VOLUME AS FOLLOWS: 2 PARTS HUMUS AND OR PEAT, 1 PART COARSE RIVER SAND, 1 PART STERILIZED COMPOSTED COW MANURE FERTILIZER, AND LIME AS RECOMMENDED BY THE SOILS TEST REPORT). COMPLETELY BLEND BARK SOIL MIX PRIOR TO PLACEMENT.

1. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES, TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
3. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES, INCLUDING UTILITY SLEEVING, PRIOR TO INSTALLATION OF PAVED SURFACES.
4. THE CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN IN ACCORDANCE WITH THE SPECIFICATIONS.
5. SITE WORK CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH TO ALL SURFACES. SITE WORK CONCRETE SHALL BE CLASS A (3,600 PSI @ 28 DAYS) UNLESS OTHERWISE NOTED.
6. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
7. SITE DIMENSIONS SHOWN ARE TO THE FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT / RECORD DRAWINGS ON-SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
9. THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH UNION COUNTY. NO CHANGE TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES MADE TO THE SITE LAYOUT WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER ARE AT THE CONTRACTOR'S RISK. CHANGES INCLUDE BUT ARE NOT LIMITED TO, INCREASED IMPERVIOUS AREA, ADDITION / DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, AND LANDSCAPING.

1. ALL PROPOSED GRADES SHOWN ARE FINAL GRADES, TOP OF GROUND LEVEL, TOP OF PAVEMENT, OR GRATE ELEVATION AT THE DRAINAGE POINT, UNLESS INDICATED OTHERWISE.
2. OWNER SHALL CONSULT WITH A PROFESSIONAL GEOTECHNICAL ENGINEER AND OBTAIN A GEOTECHNICAL SOIL REPORT PRIOR TO ANY DISTURBANCE. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL REPORT TO THE CONTRACTOR, AND SHALL CONSULT WITH THE ENGINEER ON RECORD IF OWNER PROVIDED GEOTECHNICAL REPORT WARRANTS A DESIGN CHANGE.
3. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
4. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
5. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TO A DEPTH INDICATED ON THE LANDSCAPE PLANS (6-IN. MINIMUM).
6. PAVEMENT SLOPES ACCROSS ACCESSIBLE PARKING STALLS AND ADJOINING ACCESS AISLES SHALL BE MAXIMUM 2.00% AND SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
7. ALL SLOPES IN NON-PAVED AREAS SHALL BE 2:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
8. ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN, UNLESS NOTED OTHERWISE.
9. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE DESIGNATED, AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OFFSITE IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK BY IMPORTING OR EXPORTING AS NECESSARY TO ACHIEVE DESIGN GRADES AND SPECIFICATIONS.

1. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
3. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
4. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, CONTRACTOR IS TO COORDINATE WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
5. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER.
6. ALL STORM STRUCTURES ARE PER THE TOWN OF WEDDINGTON STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE INDICATED.
7. ALL CATCH BASINS AND MANHOLES WITH A DEPTH GREATER THAN 3.5' SHALL BE PROVIDED WITH STEPS MEETING THE REQUIREMENTS OF NCDOT SPECIFICATION.
8. ALL STORM PIPES AND STRUCTURES SHALL BE INSTALLED PER THE TOWN OF WEDDINGTON STANDARDS AND SPECIFICATIONS.
9. STORM SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES PER UNION COUNTY STANDARDS AND SPECIFICATIONS.

1. CONTRACTOR WILL BE REQUIRED TO PROVIDE PROPERTY OWNERS AND TENANTS ACCESS TO THEIR PROPERTY THROUGHOUT THE PROJECT LIMITS, INCLUDING REASONABLE INGRESS AND EGRESS FOR BUSINESSES.
2. ADJACENT LANES TO CONSTRUCTION ZONES MAY REMAIN OPEN IF LATERAL CLEARANCE BETWEEN EDGE OF TRAVEL LANE AND EQUIPMENT IS EQUAL TO OR GREATER THAN 5' (INCLUDING WIDTH OF DRUM).
3. CONTRACTOR SHALL NOT BE ALLOWED TO WORK ON BOTH SIDES OF THE ROAD SIMULTANEOUSLY WITHIN THE SAME AREA EXCEPT WHERE THE ROADWAY IS DIVIDED BY A RAISED MEDIAN.
4. ONLY DRUMS WILL BE USED DURING LANE CLOSURES, NO CONES WILL BE ALLOWED.

1. DURING THE HOURS OF 6:00 AM - 9:00 AM AND 4:00 PM - 6:00 PM MONDAY THROUGH FRIDAY CONSTRUCTION OR MAINTENANCE WORK WHICH INVOLVES CLOSURE OF A TRAVEL LANE WILL NOT BE ALLOWED ON THROUGHFARE STREETS EXCEPT FOR EMERGENCY SITUATIONS OR WITH APPROVAL FROM NCDOT.

1. CONTRACTOR SHALL COORDINATE WITH THE PROPER UTILITY COMPANIES & GOVERNMENT AGENCIES PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE ACTIVITIES OCCURRING.
2. CONTRACTOR SHALL OBTAIN & PAY FOR, PRIOR TO THE BEGINNING OF ANY WORK, ALL PERMITS AND LICENSES NECESSARY TO ACCOMPLISH WORK. PERMITS CAN INCLUDE, BUT ARE NOT LIMITED TO THE UNION COUNTY, NC DOT PERMIT AND/OR THE STATE OF NORTH CAROLINA'S EROSION CONTROL PERMIT, AND/OR UTILITY COMPANY'S PERMIT FOR THE WORK TO BE PERFORMED OF THEIR RESPECTIVE FACILITIES.
3. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE JOB SITE AND LOCATION OF ALL EXISTING FACILITIES AND UNDERGROUND UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES, GAS LINES, AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS. INSTALL UTILITIES PRIOR TO PAVEMENT CONSTRUCTION.
5. ALL TRENCH SPOILS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR WILL BE UNLATERALLY RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING FACILITIES OR UNDERGROUND UTILITIES THAT ARE SHOWN OR NOT SHOWN ON THESE PLANS, AND IF DAMAGED, THEY SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AND/OR UTILITY COMPANY AT NO COST TO THE OWNER.
7. ALL 4" & 6" SANITARY SEWER SHALL BE SCH-40 PVC OR APPROVED EQUAL, INSTALLED AT A MINIMUM SLOPE OF ONE PERCENT (1%) UNLESS OTHERWISE NOTED. LATERAL LAYOUTS SHALL BE INSTALLED AT A MINIMUM DEPTH OF THREE FEET (3') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE & STORM SEWER CROSSINGS. SANITARY SEWER JOINTS ALL CONFORM TO ASTM D-3212.
8. THE CONTRACTOR SHALL RE-SET ALL MANHOLE COVERS, CATCH BASIN GRATES, VALVE BOXES, PEDESTALS, CLEANOUTS, AND ANY OTHER UTILITY ACCESS COVERS TO FINISHED PAVEMENT SURFACE, FINISHED GRADES OR SIDEWALK GRADE, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROTECT UNDERGROUND UTILITIES AND THEIR APPURTENANCES TO REMAIN ON SITE FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
9. DISTANCES SHOWN FOR BOTH SANITARY SEWER AND STORM SEWER SECTIONS ARE MEASURED FROM CENTER OF STRUCTURE, CONTRACTOR RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH.
10. ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
11. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ALL IMPROVEMENTS. INCLUDE AT LEAST TWO DIMENSIONS TO EACH VALVE AND MANHOLE FROM KNOWN SITE FEATURES. DRAWINGS SHALL INCLUDE HORIZONTAL AND VERTICAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES ENCOUNTERED.
12. MECHANICAL/ELECTRICAL CONTRACTORS SHALL BRING ALL UTILITIES 5' OUTSIDE BUILDING WALL. COORDINATE WITH ARCHITECT AND MEP ENGINEER.
13. WHEN WATER MAIN IS ABOVE SEWER, BUT WITH LESS THAN 18" CLEARANCE, OR WHEN THE SEWER IS ABOVE THE WATER MAIN, BOTH WATER MAIN AND SEWER LINE SHALL BE CONSTRUCTED OF FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MIN. LATERAL DISTANCE, MEASURED AT RIGHT ANGLES TO THE SEWER, OF 10' EACH SIDE OF THE CROSSING WITH FULL SECTIONS CENTERED AT THE POINT OF CROSSING.
14. ALL UTILITIES SHALL BE INSTALLED BY A NC LICENSED UTILITY CONTRACTOR, APPROVED BY THE ENGINEER.

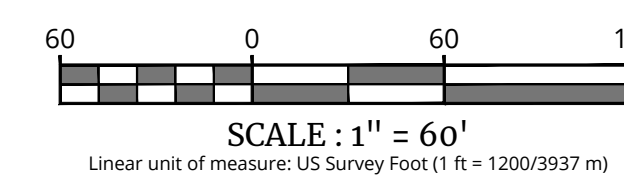
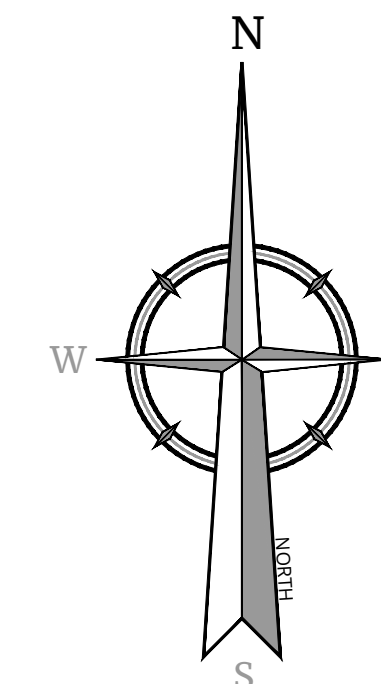
Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. #: C-4746

FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	09/25/25	NWB	CW
PROJECT NUMBER:		DRAWING NAME:	
25003536A		C-CVER	

C 001



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION

[illegible]



Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as **MASER**
CONSULTING



PROTECT YOURSELF

FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	11-1-81	W	
2	1-1-81	W	
3	1-1-81	W	
4	1-1-81	W	
5	1-1-81	W	
6	1-1-81	W	
7	1-1-81	W	
8	1-1-81	W	
9	1-1-81	W	
10	1-1-81	W	
11	1-1-81	W	
12	1-1-81	W	
13	1-1-81	W	
14	1-1-81	W	
15	1-1-81	W	
16	1-1-81	W	
17	1-1-81	W	
18	1-1-81	W	
19	1-1-81	W	
20	1-1-81	W	
21	1-1-81	W	
22	1-1-81	W	
23	1-1-81	W	
24	1-1-81	W	
25	1-1-81	W	
26	1-1-81	W	
27	1-1-81	W	
28	1-1-81	W	
29	1-1-81	W	
30	1-1-81	W	
31	1-1-81	W	
32	1-1-81	W	
33	1-1-81	W	
34	1-1-81	W	
35	1-1-81	W	
36	1-1-81	W	
37	1-1-81	W	
38	1-1-81	W	
39	1-1-81	W	
40	1-1-81	W	
41	1-1-81	W	
42	1-1-81	W	
43	1-1-81	W	
44	1-1-81	W	
45	1-1-81	W	
46	1-1-81	W	
47	1-1-81	W	
48	1-1-81	W	
49	1-1-81	W	
50	1-1-81	W	
51	1-1-81	W	
52	1-1-81	W	
53	1-1-81	W	
54	1-1-81	W	
55	1-1-81	W	
56	1-1-81	W	
57	1-1-81	W	
58	1-1-81	W	
59	1-1-81	W	
60	1-1-81	W	
61	1-1-81	W	
62	1-1-81	W	
63	1-1-81	W	
64	1-1-81	W	
65	1-1-81	W	
66	1-1-81	W	
67	1-1-81	W	
68	1-1-81	W	
69	1-1-81	W	
70	1-1-81	W	
71	1-1-81	W	
72	1-1-81	W	
73	1-1-81	W	
74	1-1-81	W	
75	1-1-81	W	
76	1-1-81	W	
77	1-1-81	W	
78	1-1-81	W	
79	1-1-81	W	
80	1-1-81	W	
81	1-1-81	W	
82	1-1-81	W	
83	1-1-81	W	
84	1-1-81	W	
85	1-1-81	W	
86	1-1-81	W	
87	1-1-81	W	
88	1-1-81	W	
89	1-1-81	W	
90	1-1-81	W	
91	1-1-81	W	
92	1-1-81	W	
93	1-1-81	W	
94	1-1-81	W	
95	1-1-81	W	
96	1-1-81	W	
97	1-1-81	W	
98	1-1-81	W	
99	1-1-81	W	
100	1-1-81	W	

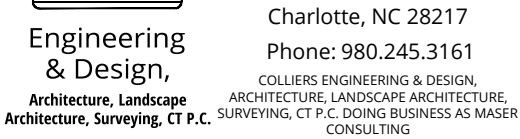
Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. #: C-4746

CONDITIONAL ZONING PLAN

FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

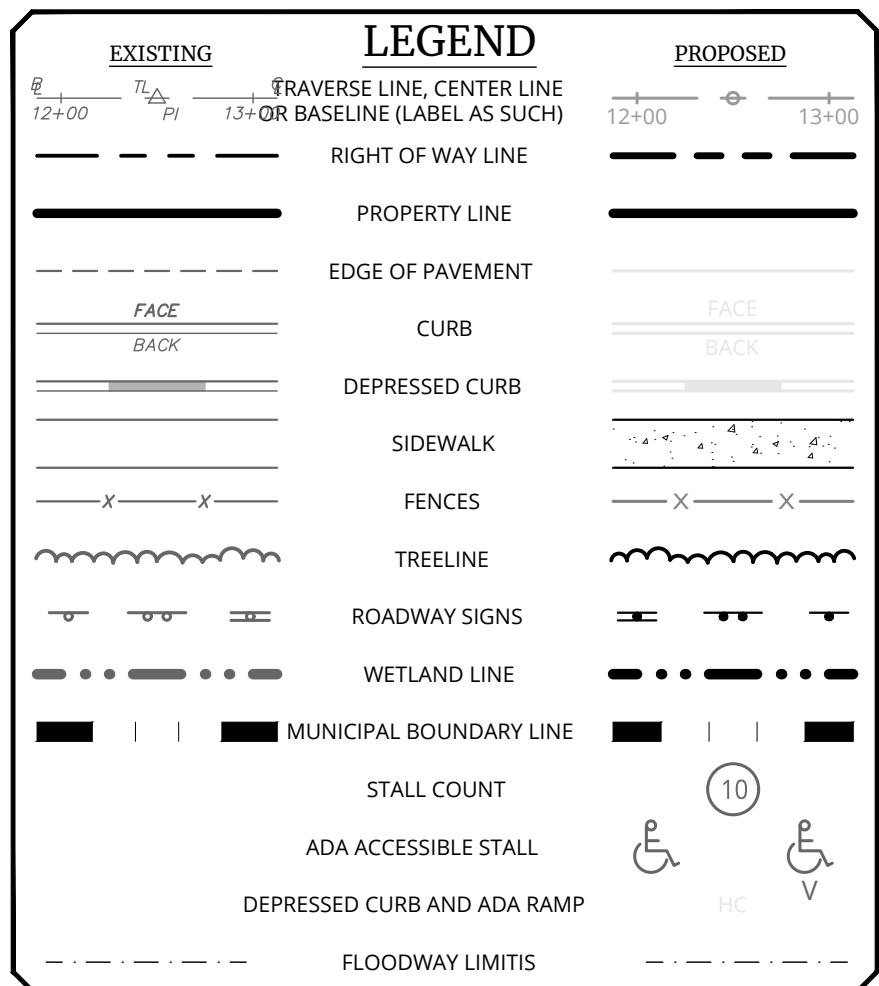
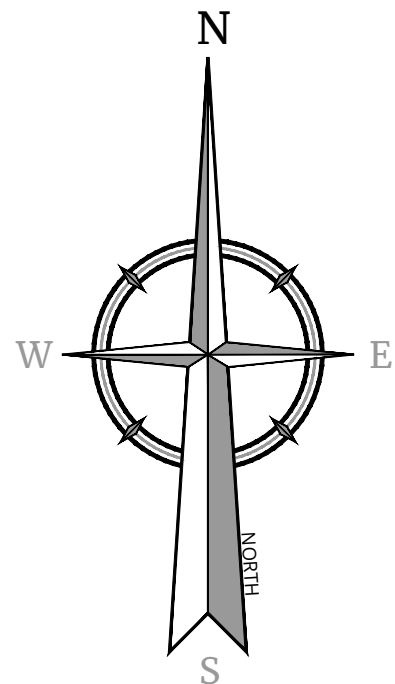


SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	09/25/25	NWB	CW
PROJECT NUMBER:		DRAWING NAME:	
250035364		C-DEMO	

DEMOLITION PLAN

SHEET NUMBER:

C-101



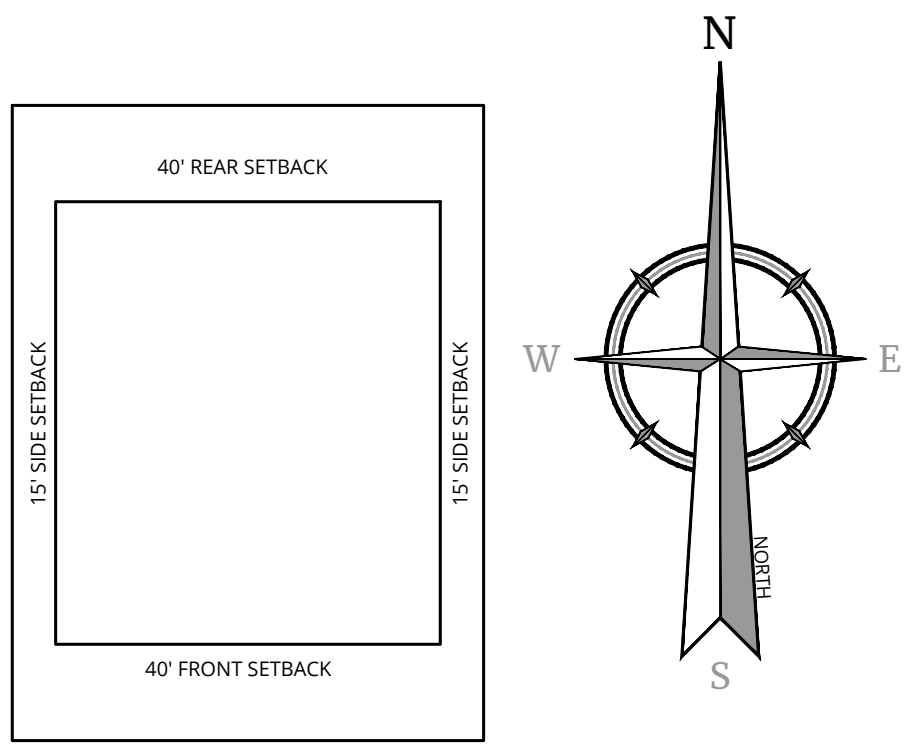
SCALE : 1" = 60'

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



LINE	BEARING	DISTANCE
L1	S 25°24'46" W	54.90'
L2	S 35°46'42" E	65.13'
L3	S 03°49'44" W	62.79'
L4	S 27°00'01" E	42.10'
L5	S 81°37'16" E	17.00'
L6	S 13°20'00" E	44.10'
L7	S 11°04'04" E	58.01'
L8	N 75°17'17" E	25.33'

025\25003536\Engineering\Site Plans\C-DEMO.dwg\C-101 DEMO PLAN By: NDIQGOU.BA

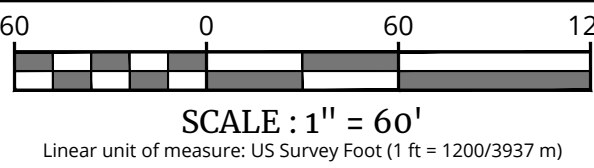
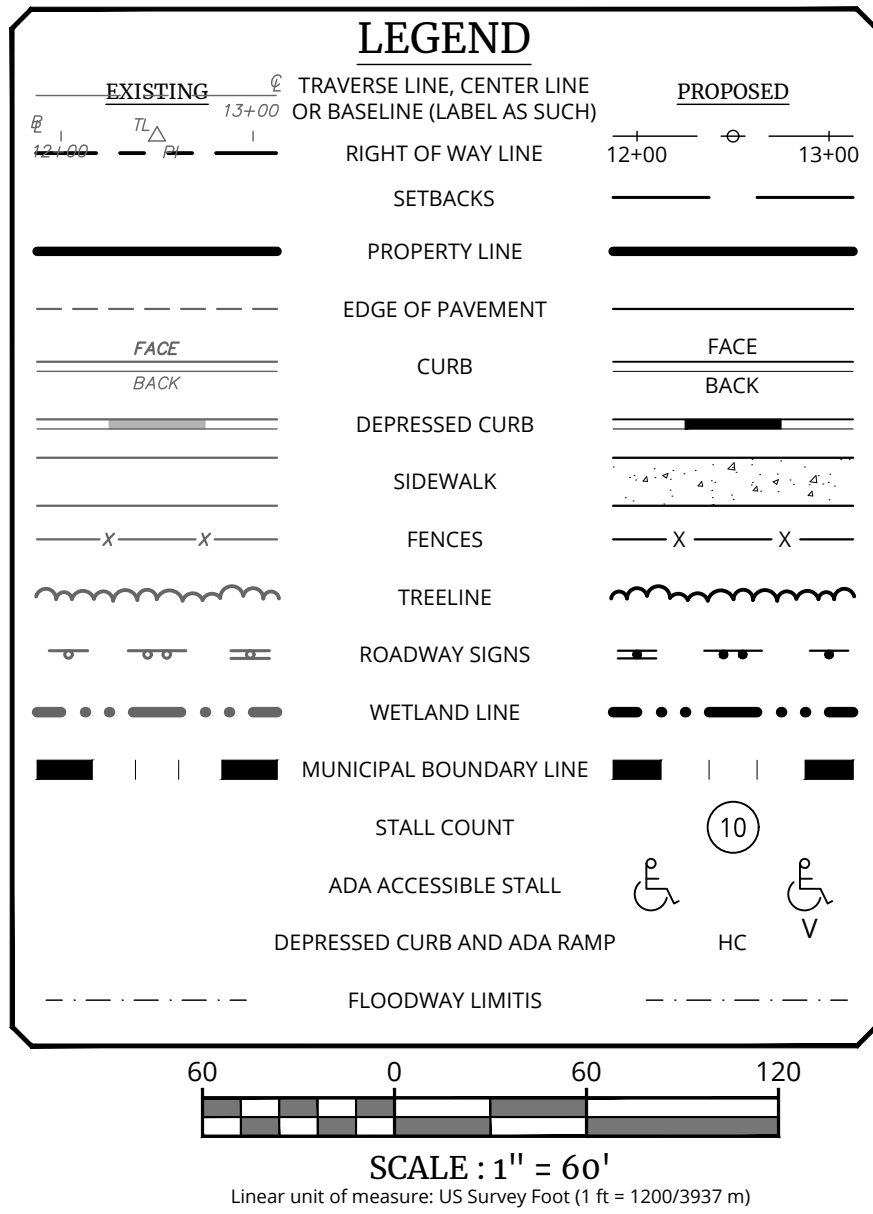


TYPICAL LOT SETBACKS

KEYSTONE CUSTOM HOMES, WEDDINGTON		
SITE DATA		
	REQUIRED /EXISTING	PROPOSED
SITE ADDRESS	3009 FOREST LAWN DR. MATTHEWS, NC, 28104	
PARCEL (PIN)	07150015	
ZONING	RESIDENTIAL CONSERVATION DISTRICT (R-CD)	
PROPOSED USE	SINGLE FAMILY CONSERVATION DEVELOPMENT	
GROSS SITE AREA	16.66 AC	
TOTAL # OF LOTS	12	
MIN LOT SIZE	18,000 SF	
AVERAGE LOT SIZE	20,402 SF	
MIN LOT WIDTH	100 FT	
MAXIMUM BUILDING HEIGHT	35 FT	
CUL DE SAC ROAD A	156 FT	
CONSERVATION SPACE	MIN. 8.27 AC (50 %)	8.53 AC (51.6%)
MINIMUM FRONT SETBACK	40 FT	40 FT
REAR SETBACK	40 FT	40 FT
MINIMUM SIDE YARD	15 FT	15 FT

NOTES

- SEE SHEET C-001 FOR GENERAL NOTES.
- CONTRACTOR SHALL REFER TO OTHERS PLANS WITHIN THIS PLAN SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.
- CONTRACTOR TO VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
- CONTRACTOR SHALL CONTACT NC 811 A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL UTILITY COMPANIES AND COMPLY TO THE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS.



Engineering & Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.
www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reprinted, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

Casey R. Whiteman

NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C.# C-4746

CONDITIONAL ZONING
PLAN

FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

5275 Parkway Plaza Boulevard,
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161

Engineering & Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.
COLLIERS ENGINEERING & DESIGN,
ARCHITECTURE, LANDSCAPE ARCHITECTURE,
ARCHITECTURE, SURVEYING, CT P.C. DOING BUSINESS AS MASER CONSULTING.

SCALE: AS SHOWN

DATE: 09/25/25

DRAWN BY: NWB

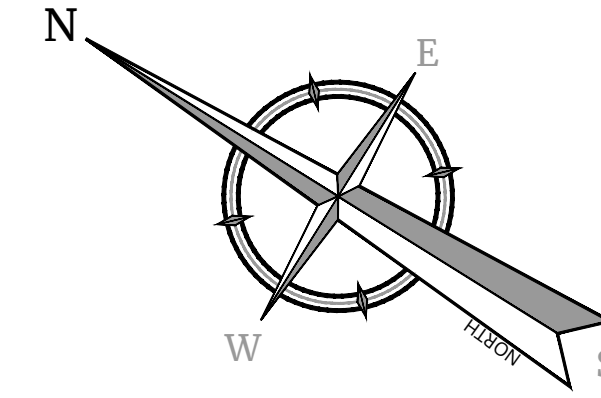
CHECKED BY: CW

PROJECT NUMBER: 25003536A

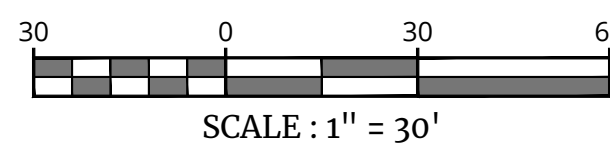
DRAWING NAME: C-LAY1

LAYOUT PLAN

C-200



SCALE : 1" = 30'



GENERAL NOTES

1. SEE SHEET C-002 FOR GENERAL NOTES.
2. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.

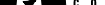
EXISTING	LEGEND	PROPOSED
	TRVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EDGE OF PAVEMENT	
	CURB	
	DEPRESSED CURB	
	SIDEWALK	
	FENCES	
	TREELINE	
	ROADWAY SIGNS	
	WETLAND LINE	
	MUNICIPAL BOUNDARY LINE	
	STALL COUNT	
	ADA ACCESSIBLE STALL	
	DEPRESSED CURB AND ADA RAMP	



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

Engineering
& Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.
www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party to whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as  **MASER**
CONSULTING

REV	DATE	DRAWN BY	DESCRIPTION
1	11-1-84	W	
2	1-1-85	W	
3	1-1-85	W	
4	1-1-85	W	
5	1-1-85	W	
6	1-1-85	W	
7	1-1-85	W	
8	1-1-85	W	
9	1-1-85	W	
10	1-1-85	W	
11	1-1-85	W	
12	1-1-85	W	
13	1-1-85	W	
14	1-1-85	W	
15	1-1-85	W	
16	1-1-85	W	
17	1-1-85	W	
18	1-1-85	W	
19	1-1-85	W	
20	1-1-85	W	
21	1-1-85	W	
22	1-1-85	W	
23	1-1-85	W	
24	1-1-85	W	
25	1-1-85	W	
26	1-1-85	W	
27	1-1-85	W	
28	1-1-85	W	
29	1-1-85	W	
30	1-1-85	W	
31	1-1-85	W	
32	1-1-85	W	
33	1-1-85	W	
34	1-1-85	W	
35	1-1-85	W	
36	1-1-85	W	
37	1-1-85	W	
38	1-1-85	W	
39	1-1-85	W	
40	1-1-85	W	
41	1-1-85	W	
42	1-1-85	W	
43	1-1-85	W	
44	1-1-85	W	
45	1-1-85	W	
46	1-1-85	W	
47	1-1-85	W	
48	1-1-85	W	
49	1-1-85	W	
50	1-1-85	W	
51	1-1-85	W	
52	1-1-85	W	
53	1-1-85	W	
54	1-1-85	W	
55	1-1-85	W	
56	1-1-85	W	
57	1-1-85	W	
58	1-1-85	W	
59	1-1-85	W	
60	1-1-85	W	
61	1-1-85	W	
62	1-1-85	W	
63	1-1-85	W	
64	1-1-85	W	
65	1-1-85	W	
66	1-1-85	W	
67	1-1-85	W	
68	1-1-85	W	
69	1-1-85	W	
70	1-1-85	W	
71	1-1-85	W	
72	1-1-85	W	
73	1-1-85	W	
74	1-1-85	W	
75	1-1-85	W	
76	1-1-85	W	
77	1-1-85	W	
78	1-1-85	W	
79	1-1-85	W	
80	1-1-85	W	
81	1-1-85	W	
82	1-1-85	W	
83	1-1-85	W	
84	1-1-85	W	
85	1-1-85	W	
86	1-1-85	W	
87	1-1-85	W	
88	1-1-85	W	
89	1-1-85	W	
90	1-1-85	W	
91	1-1-85	W	
92	1-1-85	W	
93	1-1-85	W	
94	1-1-85	W	
95	1-1-85	W	
96	1-1-85	W	
97	1-1-85	W	
98	1-1-85	W	
99	1-1-85	W	
100	1-1-85	W	

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. #: C-4746

CONDITIONAL ZONING
PLAN

FOR

KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers
Engineering
& Design,
Architecture, Landscape
Architecture, Surveying, C.T.P.C.

CHARLOTTE
5275 Parkway Plaza Boulevard
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161
COLLIERS ENGINEERING & DESIGN,
ARCHITECTURE, LANDSCAPE ARCHITECTURE,
SURVEYING, C.T.P.C. DOING BUSINESS AS MAS
CONSULTING.

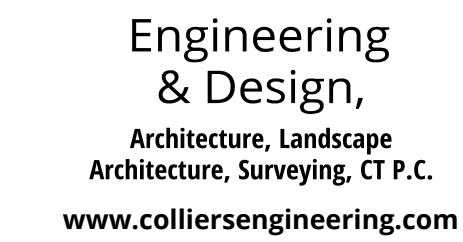
SCALE: AS SHOWN	DATE: 09/25/25	DRAWN BY: NWB	CHECKED BY: CW
PROJECT NUMBER: 250035364		DRAWING NAME: C-LAYT	

SHEET TITLE:

VEHICLE TURNING PLAN

SHEET NUMBER: C-201

025125003536AEngineeringSite Plans/C-LAYT.dwg/C-201 - VEHICLE TURNING PLAN BY: NDIIGOUBA



Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as



PROTECT YOURSELF

FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	11-11-11	1	
2	11-11-11	1	
3	11-11-11	1	
4	11-11-11	1	
5	11-11-11	1	
6	11-11-11	1	
7	11-11-11	1	
8	11-11-11	1	
9	11-11-11	1	
10	11-11-11	1	
11	11-11-11	1	
12	11-11-11	1	
13	11-11-11	1	
14	11-11-11	1	
15	11-11-11	1	
16	11-11-11	1	
17	11-11-11	1	
18	11-11-11	1	
19	11-11-11	1	
20	11-11-11	1	
21	11-11-11	1	
22	11-11-11	1	
23	11-11-11	1	
24	11-11-11	1	
25	11-11-11	1	
26	11-11-11	1	
27	11-11-11	1	
28	11-11-11	1	
29	11-11-11	1	
30	11-11-11	1	
31	11-11-11	1	
32	11-11-11	1	
33	11-11-11	1	
34	11-11-11	1	
35	11-11-11	1	
36	11-11-11	1	
37	11-11-11	1	
38	11-11-11	1	
39	11-11-11	1	
40	11-11-11	1	
41	11-11-11	1	
42	11-11-11	1	
43	11-11-11	1	
44	11-11-11	1	
45	11-11-11	1	
46	11-11-11	1	
47	11-11-11	1	
48	11-11-11	1	
49	11-11-11	1	
50	11-11-11	1	
51	11-11-11	1	
52	11-11-11	1	
53	11-11-11	1	
54	11-11-11	1	
55	11-11-11	1	
56	11-11-11	1	
57	11-11-11	1	
58	11-11-11	1	
59	11-11-11	1	
60	11-11-11	1	
61	11-11-11	1	
62	11-11-11	1	
63	11-11-11	1	
64	11-11-11	1	
65	11-11-11	1	
66	11-11-11	1	
67	11-11-11	1	
68	11-11-11	1	
69	11-11-11	1	
70	11-11-11	1	
71	11-11-11	1	
72	11-11-11	1	
73	11-11-11	1	
74	11-11-11	1	
75	11-11-11	1	
76	11-11-11	1	
77	11-11-11	1	
78	11-11-11	1	
79	11-11-11	1	
80	11-11-11	1	
81	11-11-11	1	
82	11-11-11	1	
83	11-11-11	1	
84	11-11-11	1	
85	11-11-11	1	
86	11-11-11	1	
87	11-11-11	1	
88	11-11-11	1	
89	11-11-11	1	
90	11-11-11	1	
91	11-11-11	1	
92	11-11-11	1	
93	11-11-11	1	
94	11-11-11	1	
95	11-11-11	1	
96	11-11-11	1	
97	11-11-11	1	
98	11-11-11	1	
99	11-11-11	1	
100	11-11-11	1	

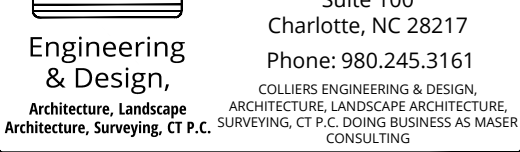
Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. #: C-4746

CONDITIONAL ZONING PLAN

FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

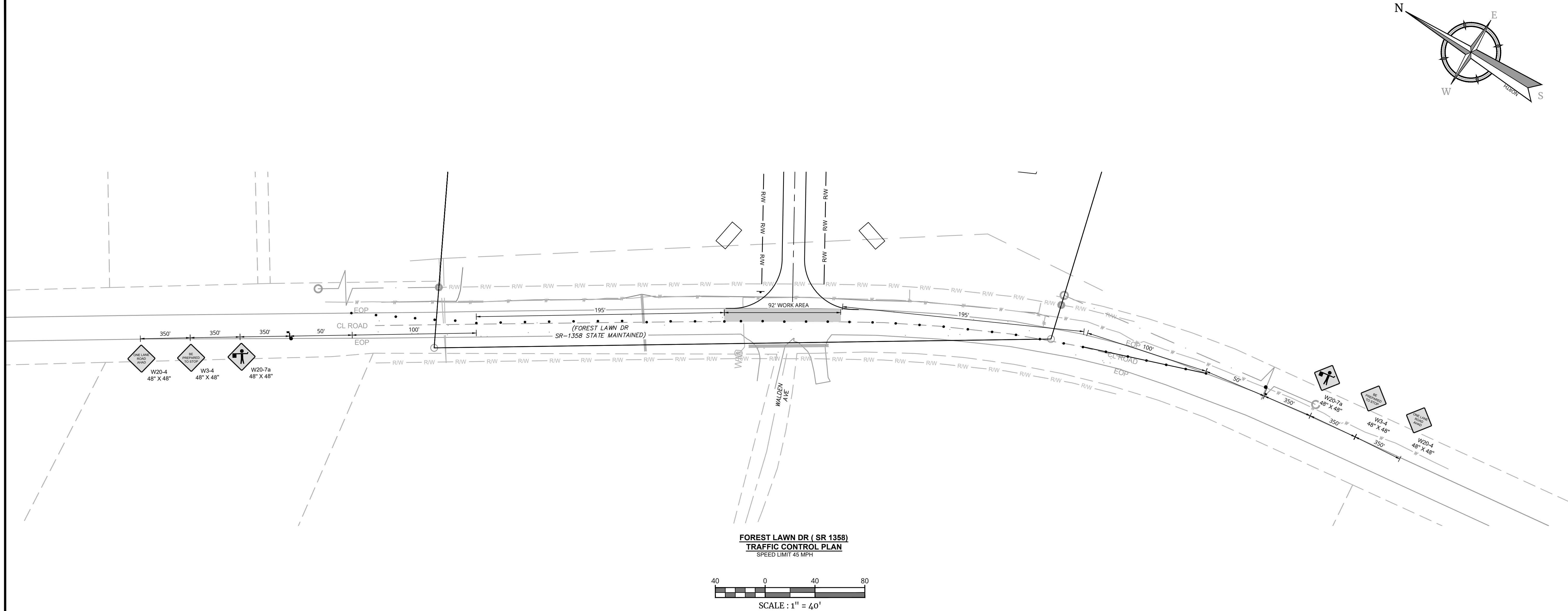


SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	09/25/25	NWB	CW
PROJECT NUMBER:		DRAWING NAME:	
25003536A		C-LAYT	

SHEET TITLE:

TRAFFIC CONTROL PLAN

SHEET NUMBER: C-202



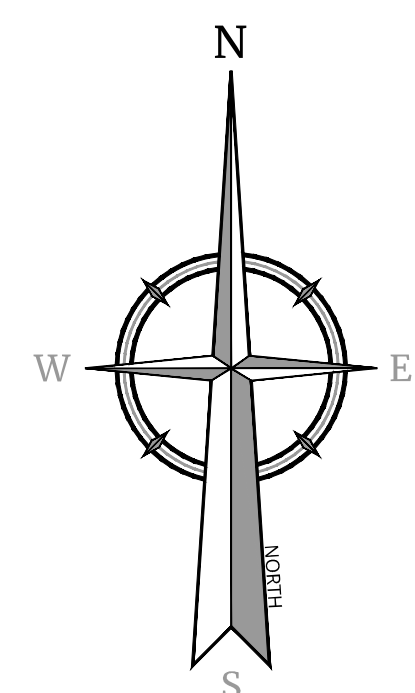
GENERAL NOTES

1. SEE SHEET C-002 FOR GENERAL NOTES.

2. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.

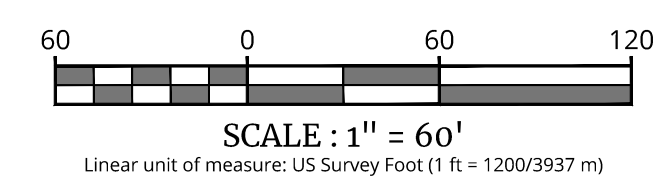
EXISTING		LEGEND		PROPOSED	
	TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)				
	RIGHT OF WAY LINE				
	PROPERTY LINE				
	EDGE OF PAVEMENT				
	FACE				
	BACK				
	DEPRESSED CURB				
	SIDEWALK				
	FENCES				
	TREELINE				
	ROADWAY SIGNS				
	WETLAND LINE				
	MUNICIPAL BOUNDARY LINE				
	STALL COUNT				
	ADA ACCESSIBLE STALL				
	DEPRESSED CURB AND ADA RAMP				
	FLOODWAY LIMITIS				

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



- NOTES**
- SEE SHEET C-001 FOR GENERAL NOTES.
 - CONTRACTOR SHALL REFER TO OTHERS PLANS WITHIN THIS PLAN SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.
 - CONTRACTOR TO VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
 - CONTRACTOR SHALL CONTACT NC 811 AT A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL UTILITY COMPANIES AND COMPLY TO THE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS.

EXISTING		LEGEND		PROPOSED	
12+00		TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)		12+00	
		RIGHT OF WAY LINE			
		PROPERTY LINE			
		EDGE OF PAVEMENT			
		FACE			
		BACK			
		DEPRESSED CURB			
		SIDEWALK			
		FENCES			
		TREELINE			
		ROADWAY SIGNS			
		WETLAND LINE			
		MUNICIPAL BOUNDARY LINE			
		TYPE 9' INLET			
		TYPE 'C', 'D', 'E' INLET			
		STORM MANHOLE			
		SANITARY MANHOLE			
		FLARED END SECTION			
		HEADWALL			
		HYDRANT			
		POLE MOUNTED LIGHT			
		CONTOURS			
		SPOT ELEVATION			
		DIRECTION OF OVERLAND FLOW			
		TOP OF CURB ELEVATION			
		BOTTOM OF CURB ELEVATION			
		TOP OF DEPRESSED CURB ELEVATION			



Colliers

Engineering & Design,
Architecture, Landscape Architecture,
Surveying, CT P.C.

www.colliersengineering.com

Doing Business as

MASER

811

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C.# C-4746

CONDITIONAL ZONING
PLAN
FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON
PIN 07150015
3009 FOREST LAWN DRIVE
WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers

5275 Parkway Plaza Boulevard,
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161

Engineering & Design,
Architecture, Landscape Architecture,
Surveying, CT P.C.

COLLIERS ENGINEERING & DESIGN
ARCHITECTURE, LANDSCAPE ARCHITECTURE,
SURVEYING, CT P.C. DOING BUSINESS AS MASER
CONSULTING

SCALE:
AS SHOWN

DATE:
09/25/25

DRAWN BY:
NWB

CHECKED BY:
CW

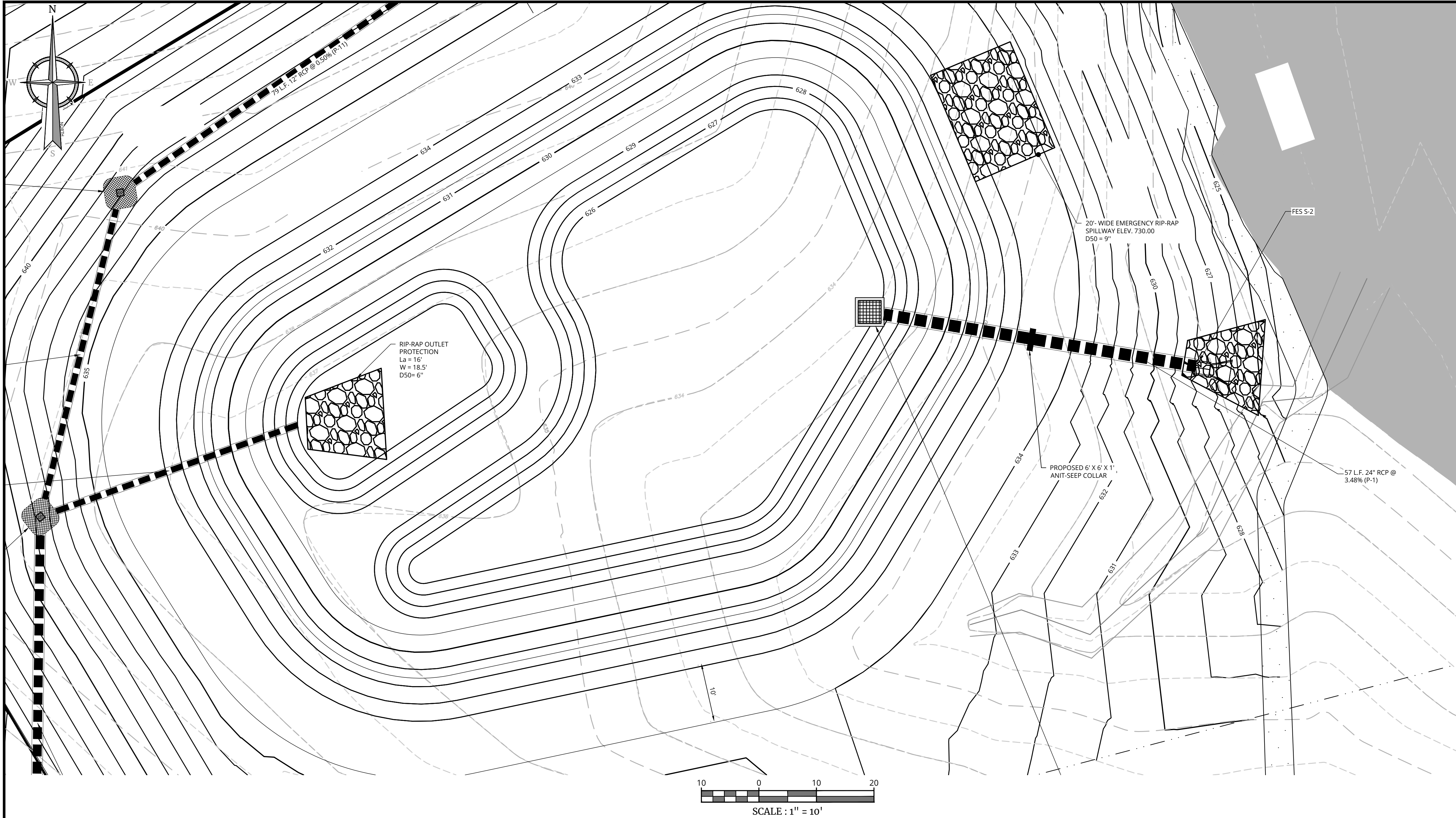
PROJECT NUMBER:
25003536A

DRAWING NAME:
C-GRAD3

SHEET TITLE:
GRADING & DRAINAGE PLAN

SHEET NUMBER:
C-300

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



GENERAL NOTES

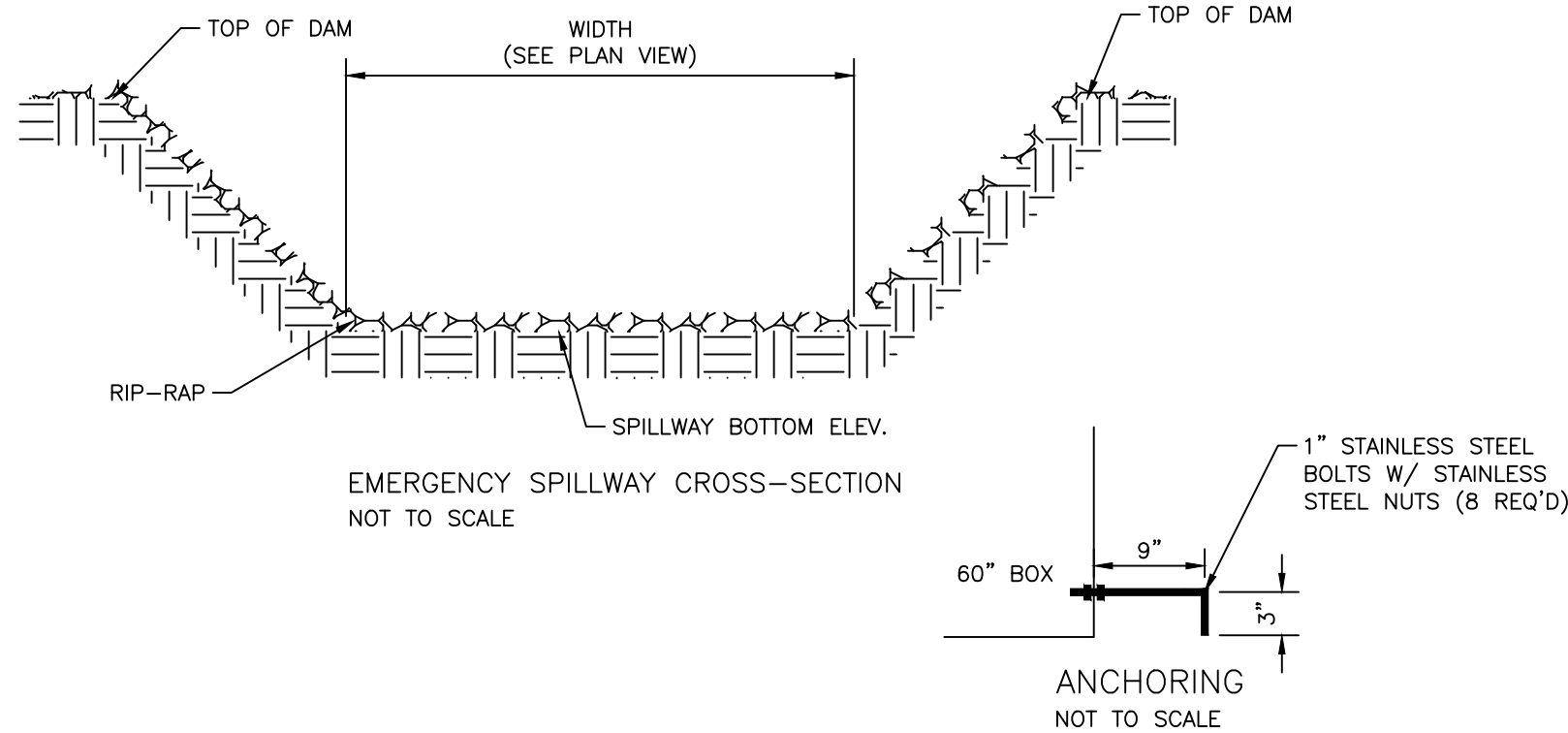
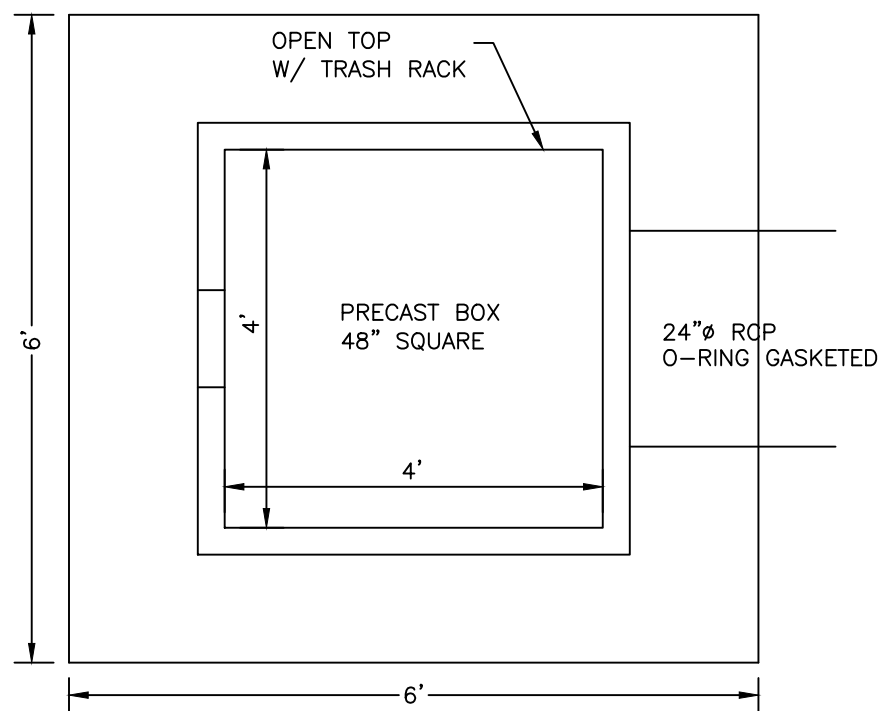
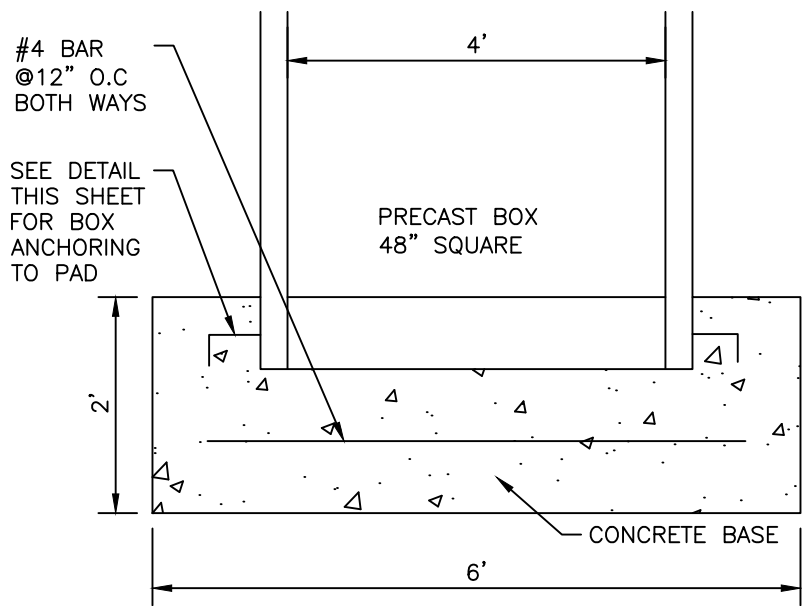
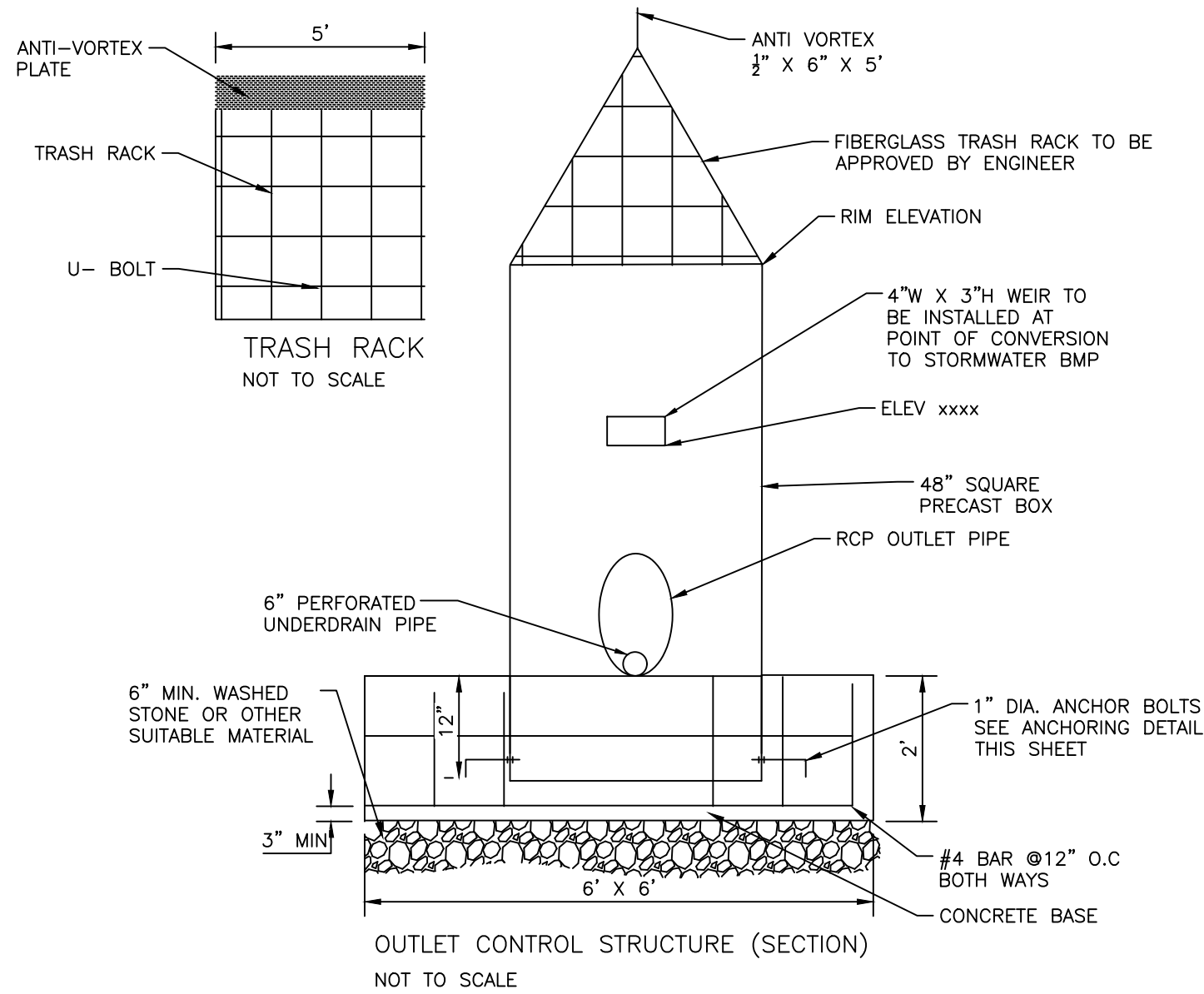
1. CONTRACTOR TO POST A CONSPICUOUS SIGN STATING WHO IS RESPONSIBLE FOR THE REQUIRED MAINTENANCE AND ANNUAL INSPECTION OF THE STORMWATER MANAGEMENT FACILITY.
2. SAND FILTER DETENTION PONDS USED AS SEDIMENT BASINS DURING THE CONSTRUCTION PERIOD TO BE FULLY CLEANED OUT PRIOR TO USE AS A STORM WATER MANAGEMENT FACILITY
3. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY PERFORMED BY A NC LICENSED SURVEYOR UPON COMPLETION OF STORMWATER MANAGEMENT FACILITY. SURVEY TO BE PROVIDED TO & REVIEWED BY CIVIL ENGINEER IN ORDER TO PROVIDE CERTIFICATION OF THE STORMWATER MANAGEMENT FACILITY. CIVIL ENGINEER WILL SUBMIT PROJECT CERTIFICATION TO THE TOWN UPON FINDING PROJECT IS IN CONFORMANCE WITH THE DESIGN PLANS. CONTRACTOR WILL NOT BE ABLE TO RECEIVE FINAL CERTIFICATE OF OCCUPANCY FOR THE BUILDING UNTIL THE STORMWATER MANAGEMENT FACILITY IS CERTIFIED.
4. ALL DISTURBED AREA SHALL RECEIVE PERMANENT SEEDING/GRASSING.
5. SET-UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH THE TOWN OF WEDDINGTON WATER QUALITY INSPECTOR AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY BMP'S.
6. DRAINAGE AREA MUST BE STABILIZED BEFORE FILTRATION CONTROLS AND FILTER MEDIA AREAS ARE INSTALLED.
7. COMPACTION SHOULD BE MINIMIZED DURING EXCAVATION AND PLACEMENT OF SOIL MIXTURE.
8. SOIL MIXTURE IS TO BE PLACED IN 12-INCH LIFTS AND WATERED UNTIL WATER FLOWS OUT OF UNDERDRAIN BEFORE PLACING THE NEXT LAYER.

INSPECTION NOTES

1. INSPECTIONS SHALL BE CONDUCTED AS PRESCRIBED BY THE MAINTENANCE COVENANT. ADDITIONAL INSPECTIONS MAY BE CONDUCTED BY THE TOWN OF WEDDINGTON LAND USE AND ENVIRONMENTAL SERVICES AGENCY ON ANY REASONABLE BASIS, INCLUDING BUT NOT LIMITED TO: ROUTINE INSPECTIONS; RANDOM INSPECTIONS; INSPECTIONS BASED UPON COMPLAINTS OR OTHER NOTICE OF POSSIBLE VIOLATIONS; INSPECTIONS OF DRAINAGE BASINS OR AREAS IDENTIFIED AS HIGHER THAN TYPICAL SOURCES OF SEDIMENT OR OTHER CONTAMINANTS OR POLLUTANTS; INSPECTIONS OF BUSINESSES OR INDUSTRIES OF A TYPE ASSOCIATED WITH HIGHER THAN USUAL DISCHARGERS OF CONTAMINANTS OR POLLUTANTS OR WITH DISCHARGES OF A TYPE WHICH ARE MORE LIKELY THAN THE TYPICAL DISCHARGE TO CAUSE VIOLATIONS OF STATE OR FEDERAL WATER QUALITY STANDARDS OR THE NPDES STORM WATER PERMIT; AND JOINT INSPECTIONS WITH OTHER AGENCIES INSPECTING UNDER ENVIRONMENTAL AND SAFETY LAWS. INSPECTIONS MAY INCLUDE, BUT ARE NOT LIMITED TO: REVIEWING MAINTENANCE AND REPAIR RECORDS; SAMPLING DISCHARGES, SURFACE WATER, GROUNDWATER, AND MATERIAL OR WATER IN BMP'S; EVALUATING THE CONDITION OF BMP'S AND STORM WATER MANAGEMENT PRACTICES.
2. RIGHT-OF-ENTRY FOR INSPECTION. WHEN ANY NEW BMP IS INSTALLED ON PRIVATE PROPERTY, THE PROPERTY OWNER SHALL GRANT TO THE MECKLENBURG COUNTY LAND USE AND ENVIRONMENTAL SERVICES AGENCY THE RIGHT TO ENTER THE PROPERTY AT REASONABLE TIMES AND IN A REASONABLE MANNER FOR THE PURPOSE OF INSPECTION. THIS INCLUDES THE RIGHT TO ENTER A PROPERTY WHEN THE MECKLENBURG COUNTY LAND USE AND ENVIRONMENTAL SERVICES AGENCY HAS A REASONABLE BASIS TO BELIEVE THAT A VIOLATION OF THIS REGULATION IS OCCURRING OR HAS OCCURRED, AND TO ENTER WHEN NECESSARY FOR ABATEMENT OF A PUBLIC NUISANCE OR CORRECTION OF A VIOLATION OF THIS REGULATION.

BMP CONSTRUCTION SEQUENCE

1. CONTRACTOR TO CALL WATER QUALITY INSPECTOR TO SET UP A BMP PRE-CONSTRUCTION MEETING PRIOR TO STARTING ANY WORK ON BMP'S. THIS MEETING SHOULD TAKE PLACE AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION ON ANY BMP AND SHALL INCLUDE THE DESIGN ENGINEER TO ENSURE ENGINEER INSPECTIONS ARE PERFORMED AT KEY BMP INSTALLATION PHASES.
2. THE DESIGN ENGINEER MUST VERIFY AND CERTIFY THE DRAINAGE IS PROPERLY STABILIZED; MEASURES ARE IN PLACE TO PREVENT SEDIMENTATION INTO THE BMP. THE STORM DRAINS INLETS AND PAVEMENT HAVE BEEN PROPERLY CLEANED PRIOR TO THE COMMENCEMENT OF BMP CONSTRUCTION.
3. SEASONAL HIGH WATER NOT ENCOUNTERED DURING GEOTECHNICAL INVESTIGATION. BORINGS EXTEND TO 15' BELOW EXISTING SURFACE, THEREFORE 2.0' OF SEPARATION BETWEEN BOTTOM OF SAND FILTER AND SHWT IS MAINTAINED.
4. ADDITIONAL MEASURES, TO ENSURE PROPER CONSTRUCTION AND OPERATION OF THE BMP, MAY BE REQUIRED BY THE WATER QUALITY INSPECTOR.



Colliers

Engineering & Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.
www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reprinted, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as

MASER CONSULTANTS

811

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DISBURSERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

Casey R. Whiteman

NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. # C-4746

CONDITIONAL ZONING
PLAN

FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers

5275 Parkway Plaza Boulevard,
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161

CHARLOTTE
COLLIERS ENGINEERING & DESIGN
ARCHITECTURE, LANDSCAPE ARCHITECTURE
ARCHITECTURE, SURVEYING, CT P.C. DOING BUSINESS AS MASER CONSULTANTS

SCALE: AS SHOWN

DATE: 09/25/25

DRAWN BY: NWB

CHECKED BY: CW

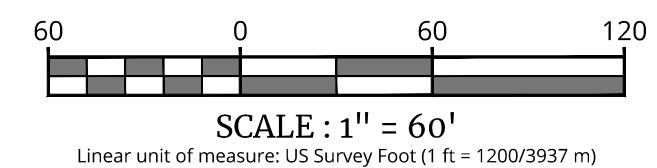
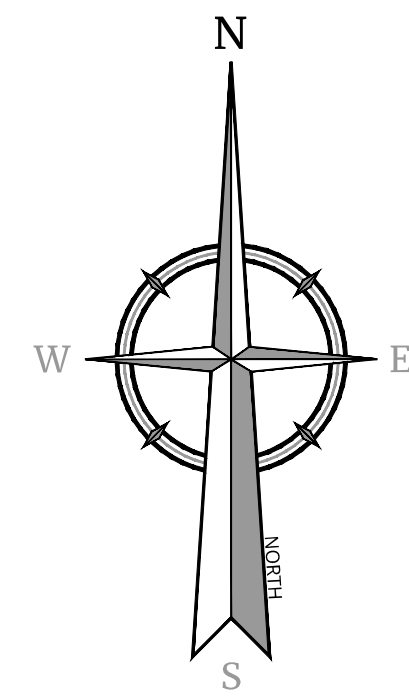
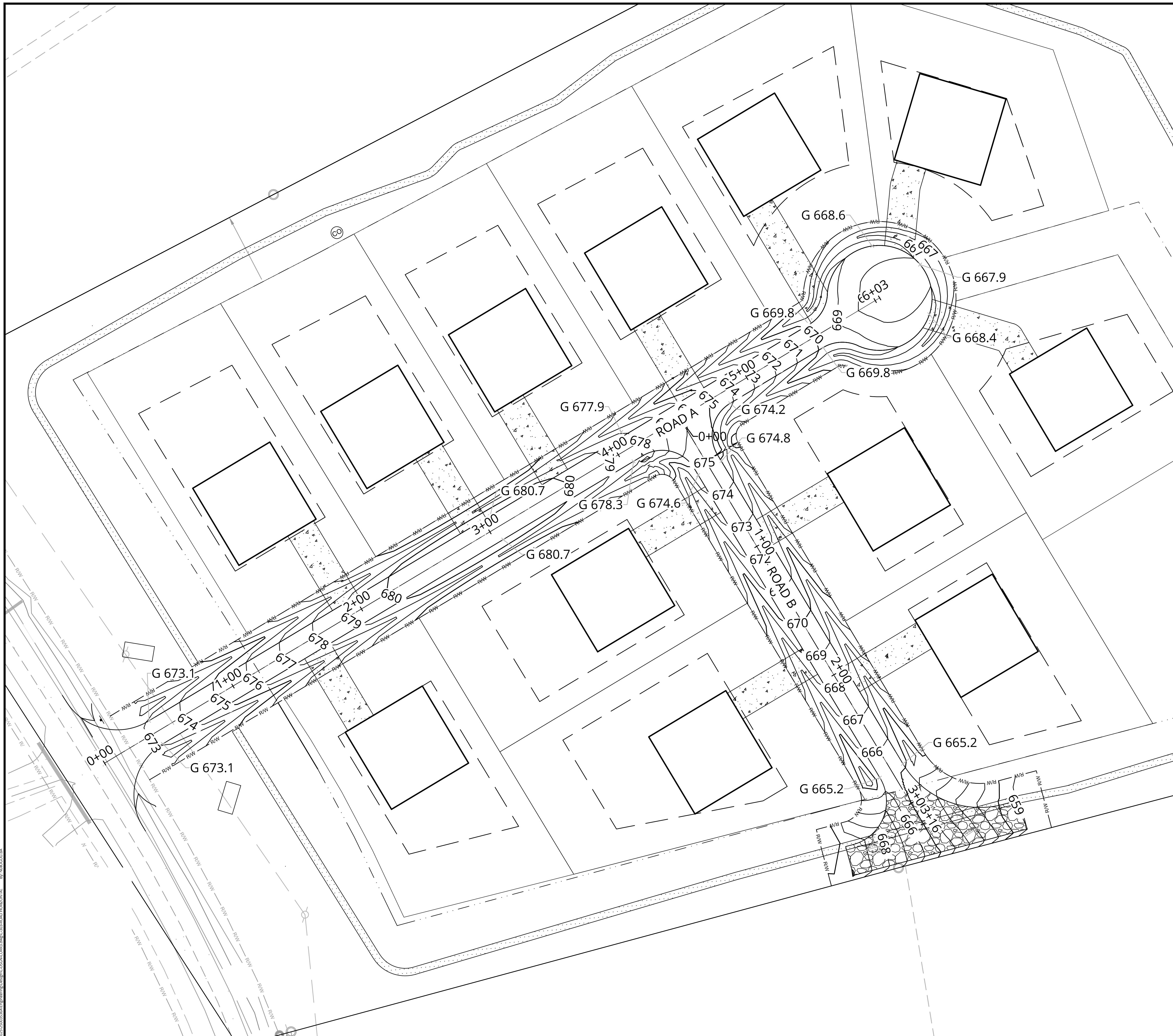
PROJECT NUMBER: 25003536A

DRAWING NAME: C-GRAD3

SHEET TITLE:
STORMWATER MANAGEMENT
PLAN

SHEET NUMBER:
C-301

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

**Colliers**

Engineering
& Design,
Architecture, Landscape Architecture,
Surveying, CT P.C.

www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as  **MASER**
CONSULTING



PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

OR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. #: C-4746

CONDITIONAL ZONING
PLAN
FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers

CHARLOTTE
5275 Parkway Plaza Boulevard,
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161

**ENGINEERING & DESIGN,
CONSTRUCTION, LANDSCAPE ARCHITECTURE,
SURVEYING, C.T.P.C. DOING BUSINESS AS MASER CONSULTING.**

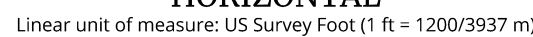
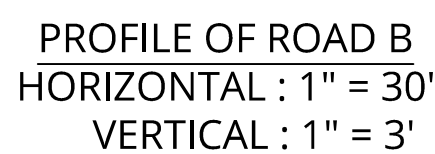
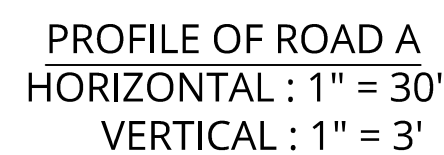
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	09/25/25	NWB	CW
PROJECT NUMBER:		DRAWING NAME:	
25003536A		C-D5GN-CORR3	

TITLE:

ROAD ELEVATIONS
HORIZONTAL

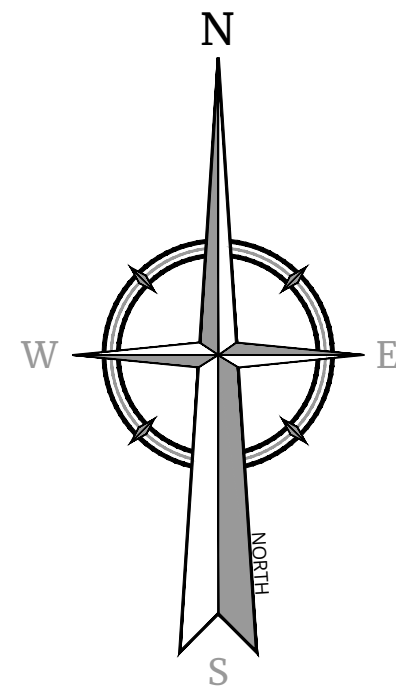
NUMBER: C-303

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION





VICINITY MAP
NOT TO SCALE



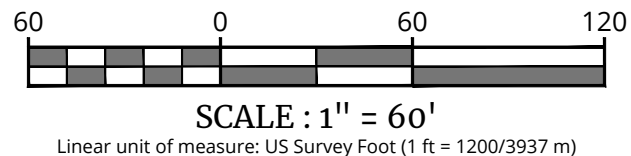
KEYSTONE CUSTOM HOMES, WEDDINGTON	
SITE DATA	
SITE ADDRESS	3009 FOREST LAWN DR, MATTHEWS, NC, 28104
PARCEL (PIN)	07150015
SF WATER DEMAND (GDP) = 12 X 400	4,800
IRRIGATION DEMAND (GDP) = 12 X 200	2,400
IRRIGATION COMMON OPEN SPACE (GDP) = 1" PER WEEK / 7 DAYS	90
TOTAL ESTIMATED DEMAND	7,290
SEWER DEMAND (GPD) = 12X280 GPD	3,360
DOMESTIC METER	12
WASTE WATER QUALITY	DOMESTIC
WWTP	TWELVE MILE CREEK

NOTE: METERS TO BE INSTALLED INDIVIDUALLY

NOTES

- SEE SHEET C-001 FOR GENERAL NOTES.
- CONTRACTOR SHALL REFER TO OTHERS PLANS WITHIN THIS PLAN SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.
- CONTRACTOR TO VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
- CONTRACTOR SHALL CONTACT NC 811 A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL UTILITY COMPANIES AND COMPLY TO THE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS.

EXISTING	LEGEND	PROPOSED
12+00	TRaverse LINE, CENTER LINE	12+00
13+00	OR BASELINE (LABEL AS SUCH)	13+00
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EDGE OF PAVEMENT	
	CURB	
	DEPRESSED CURB	
	SIDEWALK	
	FENCES	
	TREELINE	
	ROADWAY SIGNS	
	WETLAND LINE	
	MUNICIPAL BOUNDARY LINE	
	TYPE '9' INLET	
	TYPE 'C', 'D', 'E' INLET	
	STORM MANHOLE	
	SANITARY MANHOLE	
	FLARED END SECTION	
	HEADWALL	
	HYDRANT	
	POLE MOUNTED LIGHT	
	CABLE TV CONDUIT	
	WATER MAIN	
	GAS MAIN	
	TELEPHONE CONDUIT	
	ELECTRIC CONDUIT	
	SANITARY PIPE	
	STORM PIPE	



Colliers

Engineering & Design
CT, P.C.

www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is verified. This drawing may not be copied, reprinted, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as

MASER CONSULTING

811

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

Casey R. Whiteman

NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. # C-4746

UTILITIES SKETCH PLAN

FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Charlotte

5275 Parkway Plaza Boulevard,
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

Colliers

Engineering & Design
CT, P.C.

SCALE: AS SHOWN

DATE: 04/07/2025

DRAWN BY: NWB

CHECKED BY: CW

PROJECT NUMBER: ---

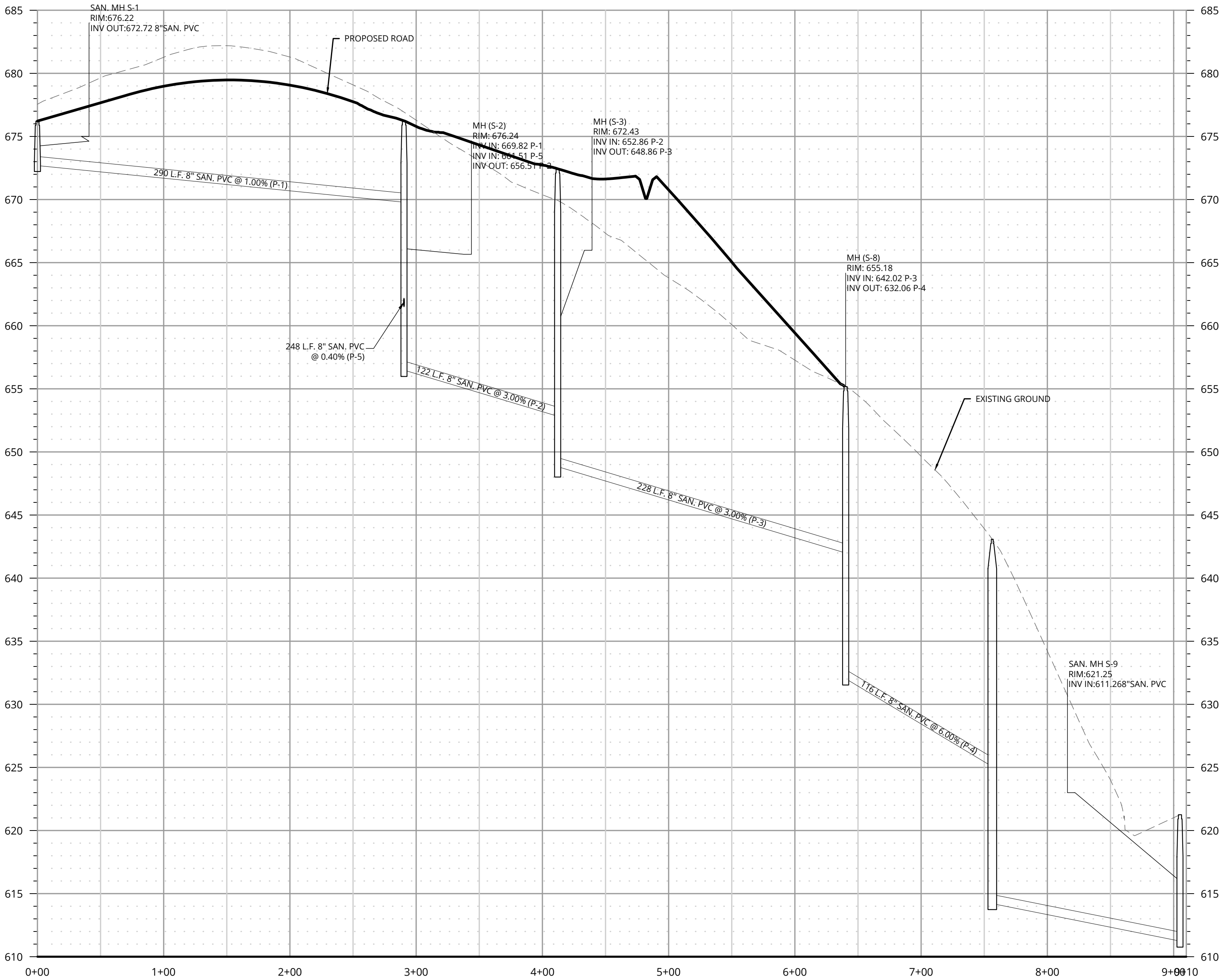
DRAWING NAME: C-UTIL

SHEET TITLE: UTILITIES SKETCH PLAN

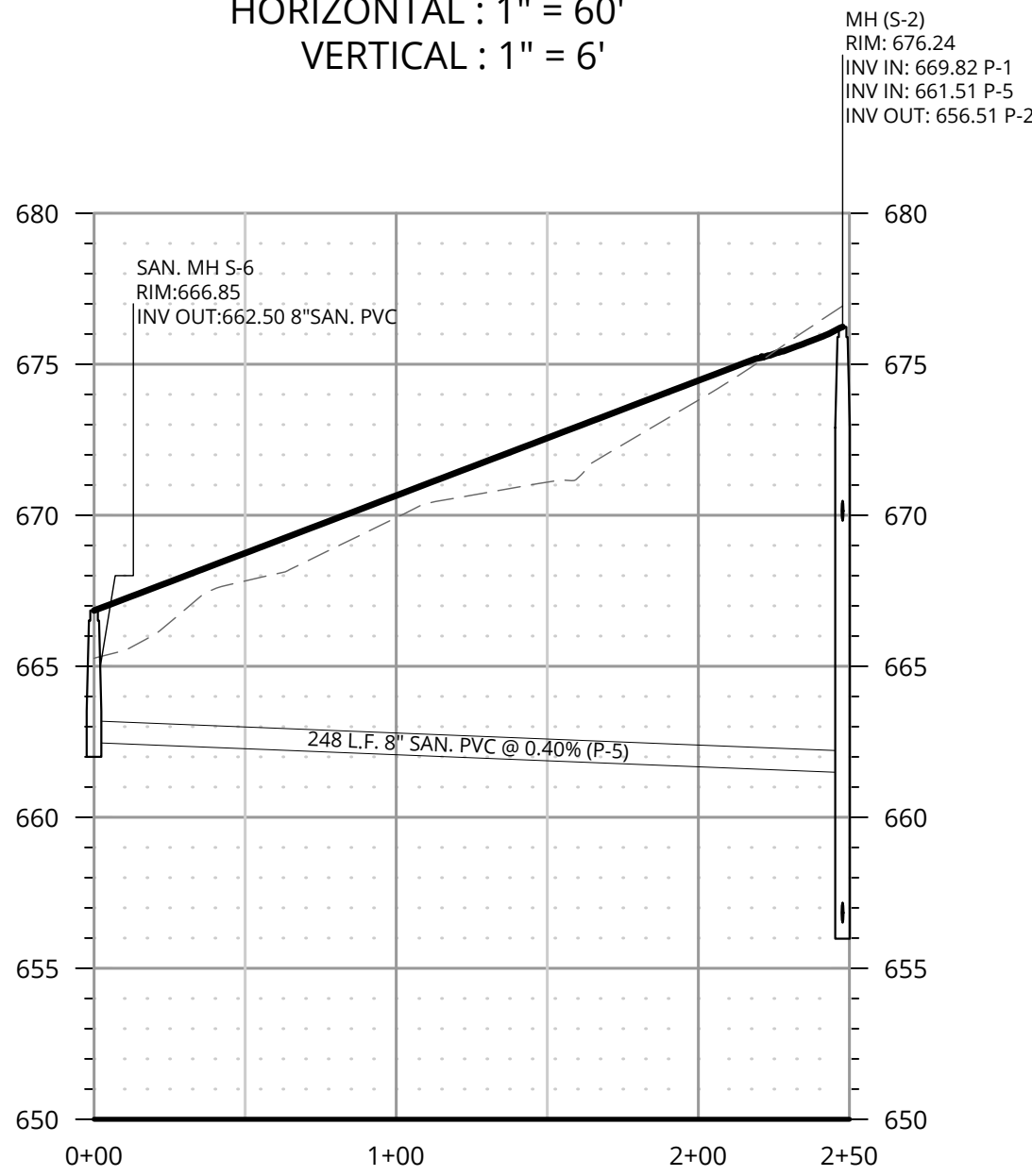
SHEET NUMBER: C-400

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

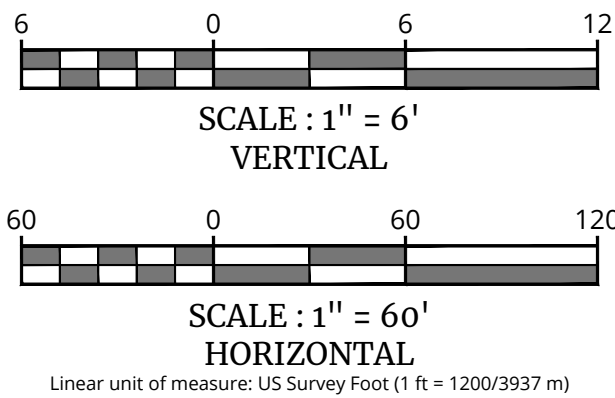
2025/25032646 Engineering Size Plans C-UTIL.dwg C-401 UTILITIES PROFILES By: ADOGOLUBA



PROFILE OF SEWER A
HORIZONTAL : 1" = 60'
VERTICAL : 1" = 6'



PROFILE OF SEWER B
HORIZONTAL : 1" = 60'
VERTICAL : 1" = 6'



Colliers

Engineering
& Design
CT, P.C.

www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reprinted, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as

MASER CONSULTING



PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

REV. DATE. DRAWN BY. DESCRIPTION.

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C.#: C-4746

UTILITIES SKETCH PLAN
FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

CHARLOTTE

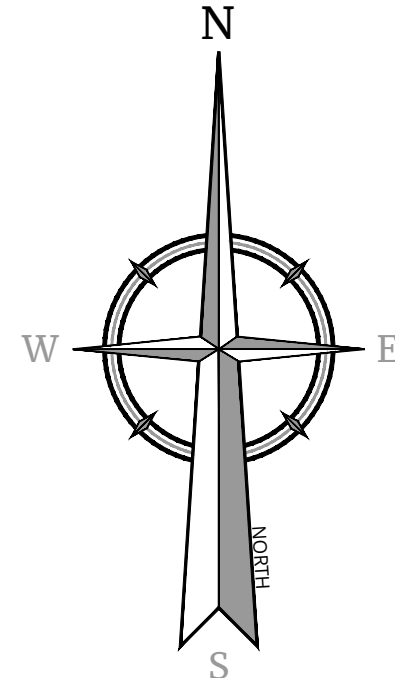
5275 Parkway Plaza Boulevard,
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

SCALE: AS SHOWN. DATE: 04/07/2025. DRAWN BY: NWB. CHECKED BY: CW.
PROJECT NUMBER: ... DRAWING NAME: C-UTIL.

SHEET TITLE:
UTILITIES PROFILE

SHEET NUMBER:
C-401

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



SCALE : 1" = 60'

Colliers

**Engineering
& Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.**

www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is submitted for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, revised, distributed, or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as  **MASER**
CONSULTANTS

PROTECT YOURSELF

811

CALL BEFORE YOU DIG

**ALL STATES REQUIRE NOTIFICATION OF
ELOCATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE**

 **811**

**FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM**

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN PT, C.C.
N.C. #: C-4746

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers

**Engineering
& Design,**
Architecture, Landscape
Architecture, Surveying, C.T.P.C.

SCALE: AS SHOWN	DATE: 09/25/25	DRAWN BY: NWB	CHECKED BY: CW
PROJECT NUMBER: 25003536A		DRAWING NAME: C-SESC	

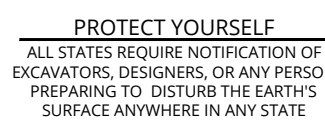
SHEET TITLE:

SOIL EROSION & SEDIMENT
CONTROL PLAN PHASE I

SHEET NUMBER: C-500



Doing Business as  **MASER**
CONSULTING

[illegible]

REV	DATE	DRAWN BY	DESCRIPTION
1	1	1	
2	2	2	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
7	7	7	
8	8	8	
9	9	9	
10	10	10	
11	11	11	
12	12	12	
13	13	13	
14	14	14	
15	15	15	
16	16	16	
17	17	17	
18	18	18	
19	19	19	
20	20	20	
21	21	21	
22	22	22	
23	23	23	
24	24	24	
25	25	25	
26	26	26	
27	27	27	
28	28	28	
29	29	29	
30	30	30	
31	31	31	
32	32	32	
33	33	33	
34	34	34	
35	35	35	
36	36	36	
37	37	37	
38	38	38	
39	39	39	
40	40	40	
41	41	41	
42	42	42	
43	43	43	
44	44	44	
45	45	45	
46	46	46	
47	47	47	
48	48	48	
49	49	49	
50	50	50	
51	51	51	
52	52	52	
53	53	53	
54	54	54	
55	55	55	
56	56	56	
57	57	57	
58	58	58	
59	59	59	
60	60	60	
61	61	61	
62	62	62	
63	63	63	
64	64	64	
65	65	65	
66	66	66	
67	67	67	
68	68	68	
69	69	69	
70	70	70	
71	71	71	
72	72	72	
73	73	73	
74	74	74	
75	75	75	
76	76	76	
77	77	77	
78	78	78	
79	79	79	
80	80	80	
81	81	81	
82	82	82	
83	83	83	
84	84	84	
85	85	85	
86	86	86	
87	87	87	
88	88	88	
89	89	89	
90	90	90	
91	91	91	
92	92	92	
93	93	93	
94	94	94	
95	95	95	
96	96	96	
97	97	97	
98	98	98	
99	99	99	
100	100	100	

CONDITIONAL ZONING
PLAN
FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers
Engineering & Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.

CHARLOTTE
5275 Parkway Plaza Boulevard
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161
COLLIERS ENGINEERING & DESIGN,
ARCHITECTURE, LANDSCAPE ARCHITECTURE,
SURVEYING, CT P.C. DOING BUSINESS AS MAS
CONSULTING

SCALE: AS SHOWN	DATE: 09/25/25	DRAWN BY: NWB	CHECKED BY: CW
PROJECT NUMBER: 25003536A		DRAWING NAME: C-SESC	

SHEET TITLE:

SOIL EROSION & SEDIMENT
CONTROL PLAN PHASE II

SHEET NUMBER: C-502



EROSION CONTROL DATA	
TOTAL PROPERTY AREA	16.66 AC
DISTURBED AREA	8.43 AC

FILL SLOPE NOTES

ALL FILL SLOPES WILL HAVE SILT FENCE AT THE TOE OF THE SLOPE

EXISTING SITE SOIL TYPES

SOIL SYMBOL: ChA - CHEWACLA SILT LOAM

SOIL SYMBOL: GSe - GOLDSTON-BADIN COMPLEX

SOIL SYMBOL: ScA - SECRET-CID COMPLEX

SOIL SYMBOL: TaD - STARRUS GRAVELLY SILTY CLAY LOAM

SOIL SYMBOL: TbB2- TARRUS GRAVELLY SILTY CLAY LOAM

SOIL SYMBOL: TbC2- TARRUS GRAVELLY SILTY CLAY LOAM

REFERENCE: USDA NATIONAL RESOURCES CONSERVATION WEB SOIL SURVEY

OWNER'S MAINTENANCE

MAINTENANCE OF ALL EROSION CONTROL MEASURES, WHETHER TEMPORARY OR PERMANENT, SHALL AT ALL TIMES BE THE RESPONSIBILITY OF THE OWNER.

CONSTRUCTION SEQUENCE:

PHASE I

1. OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM THE TOWN OF WEDDINGTON ENGINEERING DEPARTMENT.
2. SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR OF THE TOWN ENGINEERING DEPARTMENT TO DISCUSS EROSION CONTROL MEASURES.
3. SCHEDULE A MEETING/CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY AS A VIOLATION OF CHAPTER 17 OF THE TOWN CODE AND IS SUBJECT TO FINE.
4. EROSION CONTROL MEASURES: EROSION CONTROL, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS; CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
5. CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
6. THE CONTRACTOR SHALL MAINTAIN AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.

PHASE II

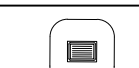
6. INSTALL UTILITIES AND STORMWATER CONVEYANCE FACILITIES AS APPROPRIATE WHILE GRADING ACTIVITIES OCCUR. AS STORMWATER CONVEYANCE FACILITIES ARE INSTALLED, INSTALL INLET PROTECTION AS SHOWN ON THE PLANS. COORDINATE EROSION CONTROL MEASURES WITH THE DESIGNER AND THE U.S. ARMY CORPS OF ENGINEERS TO MEASURE.
7. BEGIN BRINGING SITE UP TO FINISHED GRADE OR SUBGRADE AS APPROPRIATE. AREAS TO BE STABILIZED AS THEY REACH FINISHED GRADE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES THAT MAY BE NECESSARY TO PREVENT EROSION. SEGMENT DEPOSITION AS DETERMINED BY THE ENVIRONMENTAL ENGINEERING DEPARTMENT.
9. INSURE THE CURB AND GUTTER, SIDEWALK, ASPHALT CONCRETE PADS AND BUILDING FOUNDATIONS AS SITE IS BROUGHT TO SUBGRADE.
10. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURES. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, AND THE TOWN OF WEDDINGTON LAND MANAGEMENT STANDARDS AND SPECIFICATIONS.

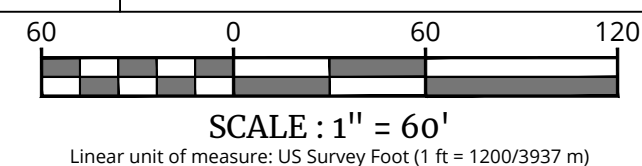
EROSION CONTROL NOTES

1. ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR.
2. ANY GRADING BEYOND THE DENOURED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE TOWN'S EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
3. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE TOWN'S EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
4. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
5. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE TOWN OF WEDDINGTON ENGINEERING DIVISION.

NOTES

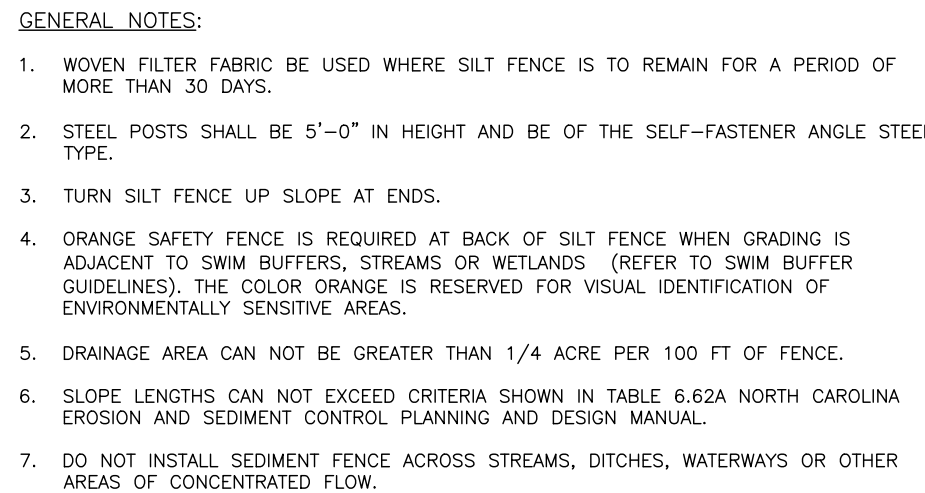
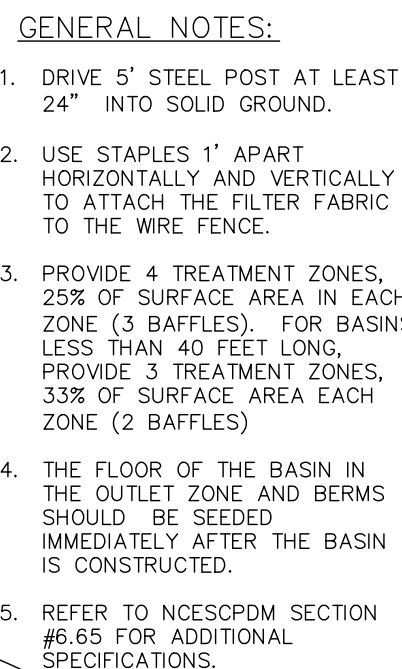
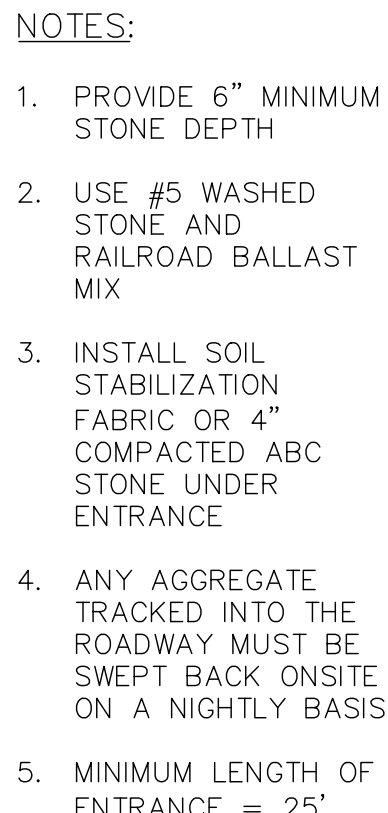
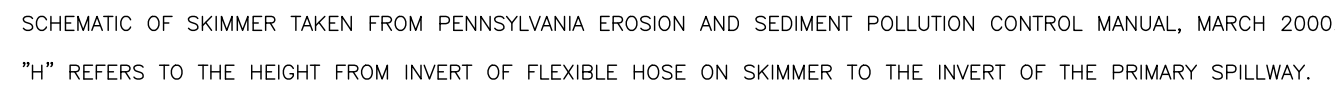
1. SEE SHEET C-001 FOR GENERAL NOTES.
2. CONTRACTOR SHALL REFER TO OTHERS PLANS WITHIN THIS PLAN SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.
3. CONTRACTOR TO VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
4. CONTRACTOR SHALL CONTACT NC 811 A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION.

EROSION LEGEND	
	LIMITS OF DISTURBANCE
	SILT FENCE
	TEMPORARY INLET PROTECTION
	DUST CONTROL
	TEMPORARY GRAVEL CONST. ENTRANCE/ EXIT
	TEMPORARY SEEDING
	PERMANENT SEEDING



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

025125003536\Engineering\Site Plans\C-SESC.dwg\C-502-SESC PLAN.III



MAINTENANCE NOTES:

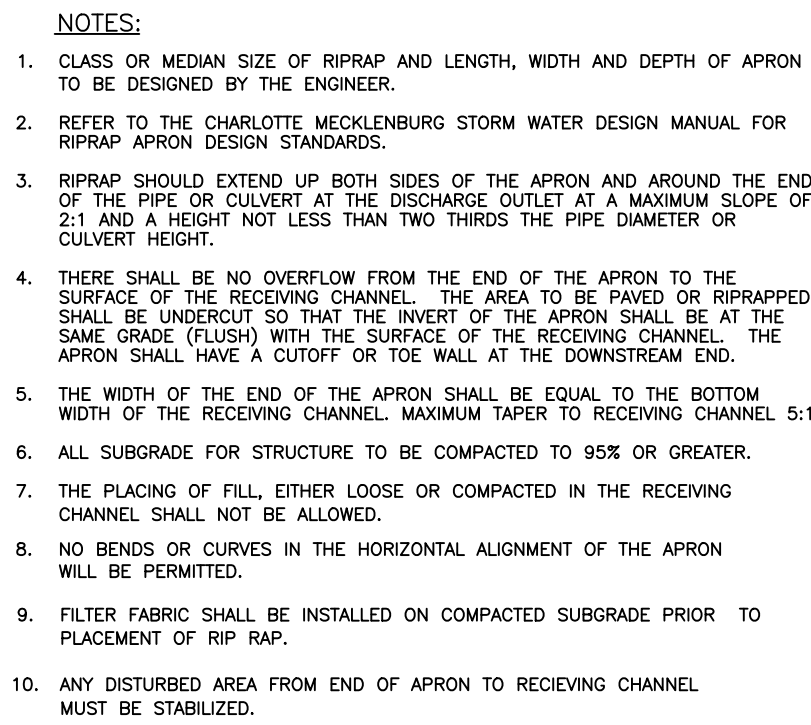
1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



1. SEDIMENT FILTER OUTLET HARDWARE CLOTH SHALL BE 24" HIGH AND STONE SHALL BE A MINIMUM OF 12" HIGH.
2. HARDWARE CLOTH SHALL BE ANCHORED TO THE STEEL POSTS SECURELY USING APPROPRIATE ANCHORS. HARDWARE CLOTH SHALL BE KEPT IN A MINIMUM OF 12 INCHES IN LENGTH AND BACKFILLED PROPERLY AS SHOWN IN ABOVE DETAIL. HARDWARE CLOTH TO BE SAME AS STD. #30.09 (19 GAUGE, 1/4" SPACING).
3. POSTS SHALL BE NO MORE THAN 4 FEET APART.
4. SITE OUTLETS AT LOW AREAS IN CONJUNCTION WITH AND ALONG LONG RUNS OF SILT FENCE AT INTERVALS NO CLOSER THAN 100 FEET. DRAINAGE AREA TO OUTLETS SHALL NOT EXCEED 1/4 ACRE.
5. EQUIVALENT ALTERNATIVES MAY BE USED WITH PRIOR CITY APPROVAL.

MAINTENANCE NOTES:

1. FILTER OUTLETS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. THE STONE SHALL BE REPLACED PROMPTLY AFTER ANY EVENT THAT HAS CLOGGED OR REMOVED IT.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OUTLET IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



OUTLET	Lo	W1	W2	*T	H

* d50 (see fig 8.06 a&b "NC SEDIMENT AND EROSION CONTROL MANUAL")
 $d_{max} = 1.5 \times d_{50}$
 $T = 1.5 \times d_{max}$
 $T(\text{min.}) = 10"$



Colliers

Engineering
& Design,
Architecture, Landscape
Architecture, Surveying, CT

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as  **MASER**
CONSULTING

811
*Don't just dig.
 Call before you dig.*

PROTECT YOURSELF
 ALL STATES REQUIRE NOTIFICATION OF
 EXCAVATORS, DESIGNERS, OR ANY PERSON
 PREPARING TO DISTURB THE EARTH'S
 SURFACE ANYWHERE IN ANY STATE

**FOR STATE SPECIFIC DIRECT PHONE NUMBERS
 VISIT: WWW.CALL811.COM**

REV	DATE	DRAWN BY	DESCRIPTION
1	11-11-11	1	
2	11-11-11	1	
3	11-11-11	1	
4	11-11-11	1	
5	11-11-11	1	
6	11-11-11	1	
7	11-11-11	1	
8	11-11-11	1	
9	11-11-11	1	
10	11-11-11	1	
11	11-11-11	1	
12	11-11-11	1	
13	11-11-11	1	
14	11-11-11	1	
15	11-11-11	1	
16	11-11-11	1	
17	11-11-11	1	
18	11-11-11	1	
19	11-11-11	1	
20	11-11-11	1	
21	11-11-11	1	
22	11-11-11	1	
23	11-11-11	1	
24	11-11-11	1	
25	11-11-11	1	
26	11-11-11	1	
27	11-11-11	1	
28	11-11-11	1	
29	11-11-11	1	
30	11-11-11	1	
31	11-11-11	1	
32	11-11-11	1	
33	11-11-11	1	
34	11-11-11	1	
35	11-11-11	1	
36	11-11-11	1	
37	11-11-11	1	
38	11-11-11	1	
39	11-11-11	1	
40	11-11-11	1	
41	11-11-11	1	
42	11-11-11	1	
43	11-11-11	1	
44	11-11-11	1	
45	11-11-11	1	
46	11-11-11	1	
47	11-11-11	1	
48	11-11-11	1	
49	11-11-11	1	
50	11-11-11	1	
51	11-11-11	1	
52	11-11-11	1	
53	11-11-11	1	
54	11-11-11	1	
55	11-11-11	1	
56	11-11-11	1	
57	11-11-11	1	
58	11-11-11	1	
59	11-11-11	1	
60	11-11-11	1	
61	11-11-11	1	
62	11-11-11	1	
63	11-11-11	1	
64	11-11-11	1	
65	11-11-11	1	
66	11-11-11	1	
67	11-11-11	1	
68	11-11-11	1	
69	11-11-11	1	
70	11-11-11	1	
71	11-11-11	1	
72	11-11-11	1	
73	11-11-11	1	
74	11-11-11	1	
75	11-11-11	1	
76	11-11-11	1	
77	11-11-11	1	
78	11-11-11	1	
79	11-11-11	1	
80	11-11-11	1	
81	11-11-11	1	
82	11-11-11	1	
83	11-11-11	1	
84	11-11-11	1	
85	11-11-11	1	
86	11-11-11	1	
87	11-11-11	1	
88	11-11-11	1	
89	11-11-11	1	
90	11-11-11	1	
91	11-11-11	1	
92	11-11-11	1	
93	11-11-11	1	
94	11-11-11	1	
95	11-11-11	1	
96	11-11-11	1	
97	11-11-11	1	
98	11-11-11	1	
99	11-11-11	1	
100	11-11-11	1	

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. #: C-4746

CONDITIONAL ZONING
PLAN
FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers
Engineering & Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.

CHARLOTTE
5275 Parkway Plaza Boulevard
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161
COLLIERS ENGINEERING & DESIGN,
ARCHITECTURE, LANDSCAPE ARCHITECTURE,
SURVEYING, CT P.C. DOING BUSINESS AS MASEI
CONSULTING

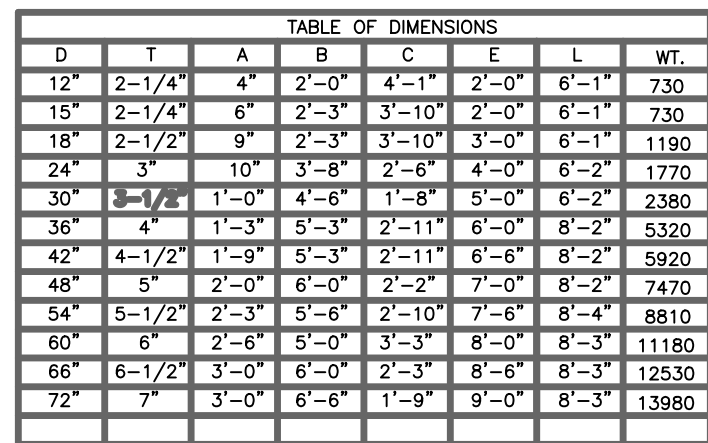
SCALE: AS SHOWN	DATE: 09/25/25	DRAWN BY: NWB	CHECKED BY: CW
PROJECT NUMBER: 25003536A		DRAWING NAME: C-SESC	

SHEET TITLE:

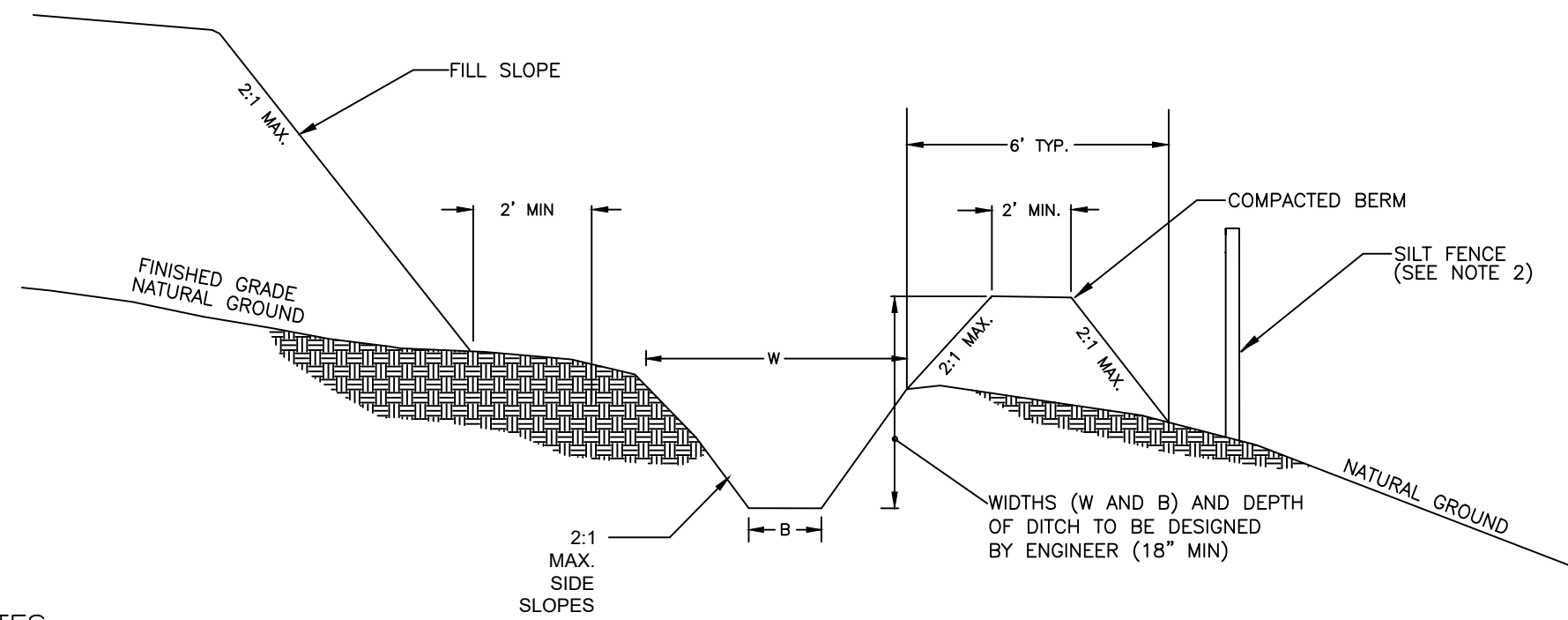
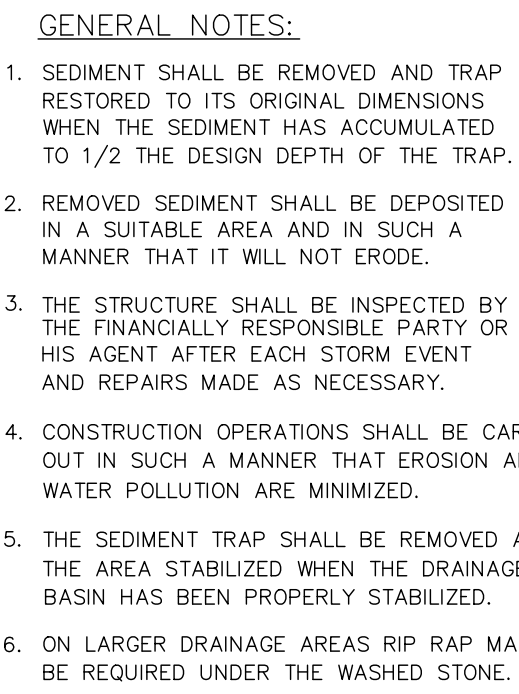
SOIL EROSION & SEDIMENT
CONTROL DETAILS

SHEET NUMBER: C-503

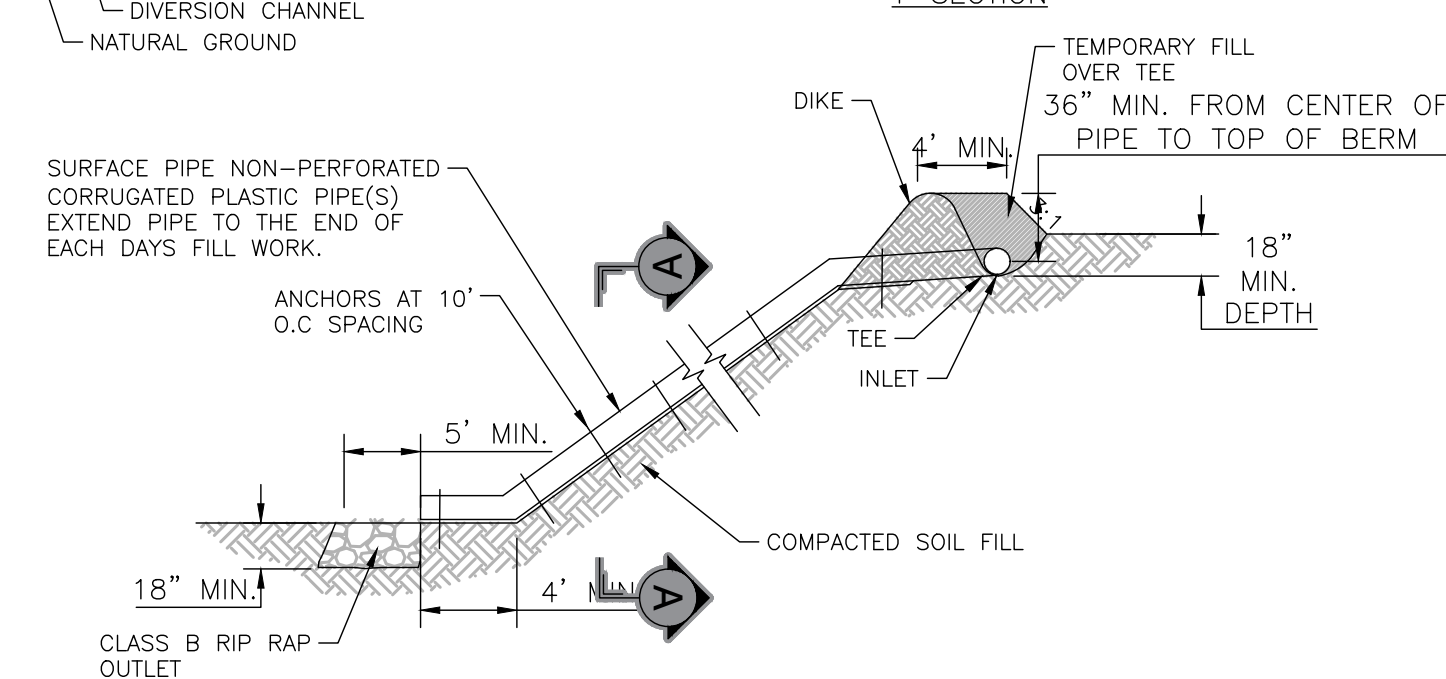
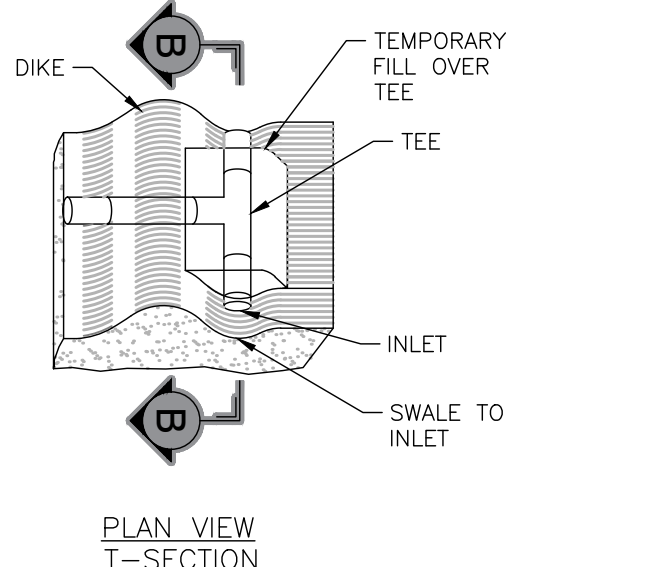
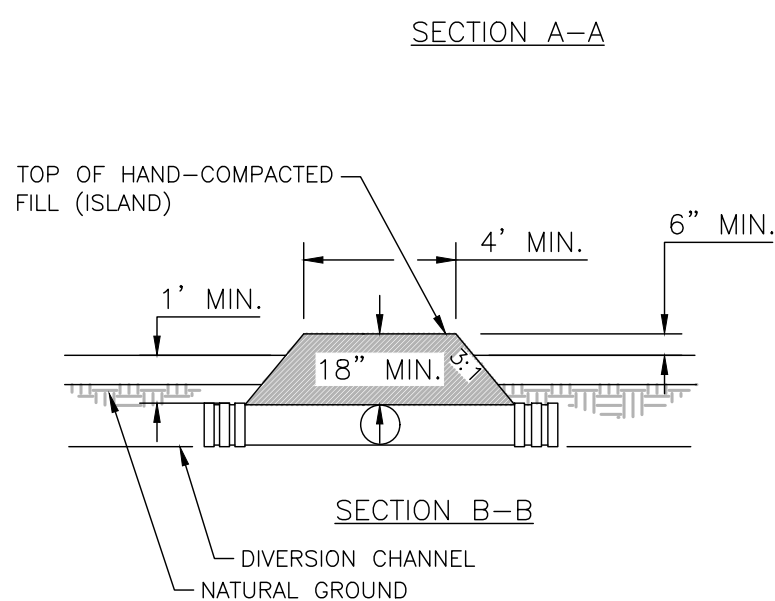
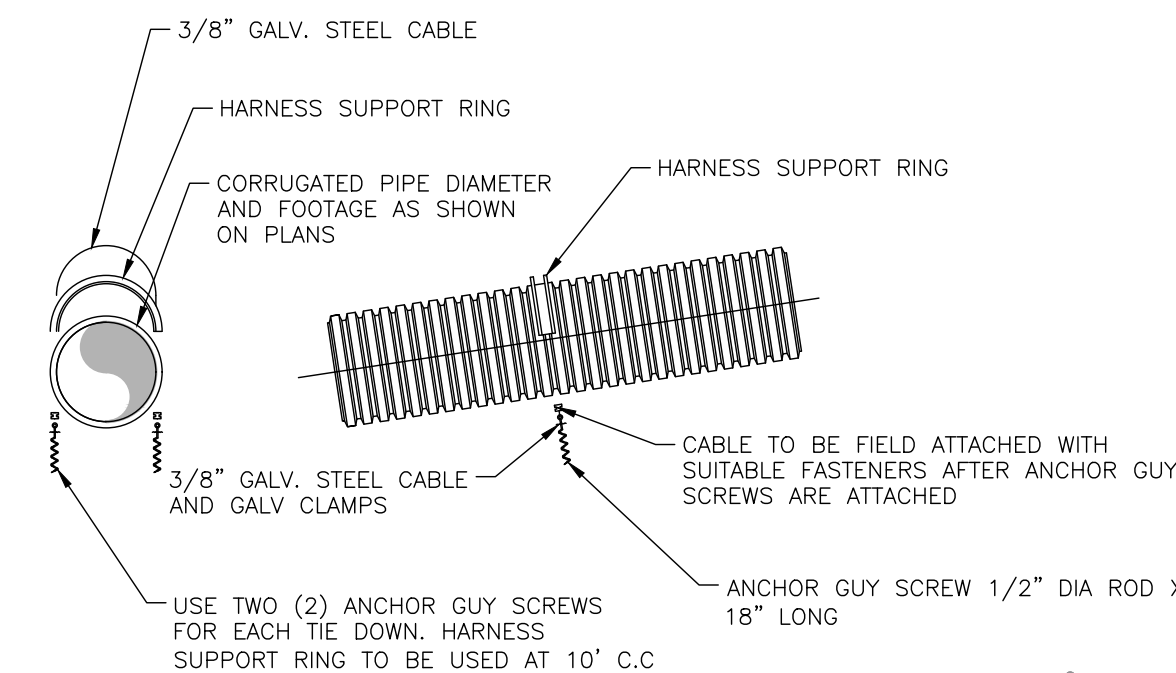
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION



-
- A schematic diagram of a hood and expansion restraint system. A rectangular hood is shown at the top, with a label 'HOOD' pointing to its right side. Below the hood is a horizontal 'GRATE'. Two diagonal lines representing the expansion restraint extend from the grate down to a horizontal line. A label 'EXPANSION RESTRAINT' points to these lines. Below the horizontal line, there are several small triangles pointing upwards, representing the expansion of the material. On the left side, a vertical line with a circular end represents a connection or support.



-
- CLASS B RIPRAP
- STABILIZED GROUND
- FLOW
- FLOW
- FLOW
- 1' 3"
- FILTER BERM #57 WASHED STONE
- FLOW
- FLOW
- TEE TO MATCH PIPE SIZE
- SLOPE DRAIN - SEE PLAN FOR SIZE AND LOCATION
- 4'-WIDE BERM
- RIPRAP HEADWALL
- TOP OF BERM
- FILL SLOPE
- PLAN VIEW



- Colliers**

Engineering
& Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.
www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as  **MASER**
CONSULTING

811
Don't dig until you call.
PROTECT YOURSELF
 ALL STATES REQUIRE NOTIFICATION OF
 EXCAVATORS, DESIGNERS, OR ANY PERSON
 PREPARING TO DISTURB THE EARTH'S
 SURFACE ANYWHERE IN ANY STATE
**FOR STATE SPECIFIC DIRECT PHONE NUMBERS
 VISIT: WWW.CALL811.COM**

REV	DATE	DRAWN BY	DESCRIPTION
1		1	
2		1	
3		1	
4		1	
5		1	
6		1	
7		1	
8		1	
9		1	
10		1	
11		1	
12		1	
13		1	
14		1	
15		1	
16		1	
17		1	
18		1	
19		1	
20		1	
21		1	
22		1	
23		1	
24		1	
25		1	
26		1	
27		1	
28		1	
29		1	
30		1	
31		1	
32		1	
33		1	
34		1	
35		1	
36		1	
37		1	
38		1	
39		1	
40		1	
41		1	
42		1	
43		1	
44		1	
45		1	
46		1	
47		1	
48		1	
49		1	
50		1	
51		1	
52		1	
53		1	
54		1	
55		1	
56		1	
57		1	
58		1	
59		1	
60		1	
61		1	
62		1	
63		1	
64		1	
65		1	
66		1	
67		1	
68		1	
69		1	
70		1	
71		1	
72		1	
73		1	
74		1	
75		1	
76		1	
77		1	
78		1	
79		1	
80		1	
81		1	
82		1	
83		1	
84		1	
85		1	
86		1	
87		1	
88		1	
89		1	
90		1	
91		1	
92		1	
93		1	
94		1	
95		1	
96		1	
97		1	
98		1	
99		1	
100		1	

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. #: C-4746

CONDITIONAL ZONING
PLAN
FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers

Engineering & Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.

CHARLOTTE
5275 Parkway Plaza Boulevard,
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161

COLLIERS ENGINEERING & DESIGN,
ARCHITECTURE, LANDSCAPE ARCHITECTURE,
SURVEYING, C.T., DOING BUSINESS AS MASER
CONSULTING.

SCALE: AS SHOWN	DATE: 09/25/25	DRAWN BY: NWB	CHECKED BY: CW
PROJECT NUMBER: 25003536A		DRAWING NAME: C-SESC	

SHEET TITLE:

SOIL EROSION & SEDIMENT CONTROL DETAILS

SHEET NUMBER: C-504

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

INSPECTION AND MONITORING RECORDS FOR ACTIVITIES UNDER STORMWATER GENERAL PERMIT NCG010000 AND SELF-INSPECTION RECORDS FOR LAND DISTURBING ACTIVITIES PER 6. 113A-64.1																																																			
Project Name		Land Quality or Local Program Project/Permit #																																																	
Approving Authority	Date of Plan Approval	Expiration Date, if applicable																																																	
NCG010000 Certificate of Coverage Number		Date of COC Issuance																																																	
Coverage under the NCG010000 permit must be renewed annually. It issued after April 1, 2019 only Notice of Termination is filed and approved.																																																			
PART 1.A: Rainfall Data <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 45%;">Rain Amount (inches)</th> <th style="width: 50%;">Rain Amount (inches)</th> </tr> <tr> <th></th> <th style="text-align: center;">Daily Rainfall Required</th> <th style="text-align: center;">If no rain, indicate with a "zero"</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">M</td><td></td><td></td></tr> <tr><td style="text-align: center;">T</td><td></td><td></td></tr> <tr><td style="text-align: center;">W</td><td></td><td></td></tr> <tr><td style="text-align: center;">Th</td><td></td><td></td></tr> <tr><td style="text-align: center;">F</td><td></td><td></td></tr> <tr><td style="text-align: center;">S</td><td></td><td></td></tr> <tr><td style="text-align: center;">Sat (Inspection Optional)</td><td></td><td></td></tr> <tr><td style="text-align: center;">Sun (Inspection Optional)</td><td></td><td></td></tr> </tbody> </table> Are there any site or project conditions that limit completion of inspection? If yes, explain conditions and areas of site that were inaccessible. PART 1.B: Phasings of the Plan <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 45%;">Check All applicable box(es) that apply to completed & current phasing</th> <th style="width: 50%;">X</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Initial installation of erosion and sediment control measures</td> <td></td> </tr> <tr> <td style="text-align: center;">2</td> <td>Clearing and grubbing of existing ground cover</td> <td></td> </tr> <tr> <td style="text-align: center;">3</td> <td>Completion of area grading that requires ground cover</td> <td></td> </tr> <tr> <td style="text-align: center;">4</td> <td>Completion of all land-disturbing activity, construction or development</td> <td></td> </tr> <tr> <td style="text-align: center;">5</td> <td>Permanent ground cover sufficient to replace erosion has been established</td> <td></td> </tr> </tbody> </table>					Rain Amount (inches)	Rain Amount (inches)		Daily Rainfall Required	If no rain, indicate with a "zero"	M			T			W			Th			F			S			Sat (Inspection Optional)			Sun (Inspection Optional)				Check All applicable box(es) that apply to completed & current phasing	X	1	Initial installation of erosion and sediment control measures		2	Clearing and grubbing of existing ground cover		3	Completion of area grading that requires ground cover		4	Completion of all land-disturbing activity, construction or development		5	Permanent ground cover sufficient to replace erosion has been established	
	Rain Amount (inches)	Rain Amount (inches)																																																	
	Daily Rainfall Required	If no rain, indicate with a "zero"																																																	
M																																																			
T																																																			
W																																																			
Th																																																			
F																																																			
S																																																			
Sat (Inspection Optional)																																																			
Sun (Inspection Optional)																																																			
	Check All applicable box(es) that apply to completed & current phasing	X																																																	
1	Initial installation of erosion and sediment control measures																																																		
2	Clearing and grubbing of existing ground cover																																																		
3	Completion of area grading that requires ground cover																																																		
4	Completion of all land-disturbing activity, construction or development																																																		
5	Permanent ground cover sufficient to replace erosion has been established																																																		

DPMR Monitoring Form Rev: 07/10/2020		DPMR Monitoring Form Rev: 07/10/2020		Page 2 of 2			
PART 2 – STORMWATER PLANS AND CONTROLS – For each question below, mark the corresponding box 'Yes', 'No' or 'N/A'. For all items marked 'No', note in the 'Comments' column any details of the actions and locations of the deficiency, the original date noted, and the date it was noted as being corrected. NOTE: Reference to 'this form' refers to the current form and not the previous version.							
Reference	Part 2A: Stormwater Plans and Related Documents				Yes	No	N/A
A	Is the approval letter or certificate of approval for the WREES Construction General Permit (CGP) on site? (It may also include electronic copy of CGP or a copy of the approval)						
B	Is the approved plan on site and current?						
Reference	Part 2B: Stormwater Pollution Controls				Yes	No	N/A
C	Are erosion and sediment controls that are shown on the approved plan installed and operating properly with no repairs needed?						
D	Are sediment controls that are shown on the approved plan installed and operating properly with no repairs needed?						
E	Vehicle Tracking: Are construction entrances operating properly with no repairs needed?						
F	Soil Stabilization: Are areas of the site where construction activities have occurred being properly stabilized?						
G	Are surface stormwater discharges and overflows protected from sediment loss, and located at least 50 feet away or downhill from drain ditches and public ways?						
Reference	Part 2C: Storm Water Pollution Controls				Yes	No	N/A
H	Concrete, curbs, paint, etc. washes. Are washouts installed, properly located, pooled and operating with no repairs needed?						
I	Solid & hazardous wastes, trash, debris, and hazardous materials properly managed?						
J	Sanitary waste: Are portable toilets properly located and operating with no repairs needed?						
K	Equipment and stored fuels: Are fuels, lubricants, hydraulic fluids, etc. contained so as not to enter surface and ground waters?						
Report of spill and the release of hazardous substances to the appropriate DCA Regional Office via phone call or email within 24 hours of discovery.							
For any items listed in the section below, if a full description of dissemination is required in Part 2C, this includes, but may not be limited to: location, within the project area, the date and time of the spill or release, the nature of the spill or release, the spill volume, and what corrective actions need to be taken to prevent this from recurring.							
Reference	Part 2D: Spill Mitigation				Yes	No	N/A
L	Has each spill or pollutant spill been followed by the approval or permitted limits of discharge?						
M	Are BMPs designed to receiving sediment or other pollutants to receiving waters?						
Report visible sedimentation into streams or overflows to the appropriate DCA Regional Office via phone call or email within 24 hours of discovery.							

[illegible][illegible]

GROUND STABILIZATION TIMEFRAMES		
Site Area Description	Stabilization	Timeframe Variations
Perimeter dikes, swales and slopes	7 days	None
High Quality Water (HMQ) Zones	7 days	None
Slopes flatter than 3:1	7 days	7 days for perimeter dikes, swales, slopes and HWQ zones 14 days for slopes 10:1 or less in length and not steeper than 2:1 10 days for Falls Lake Watershed
Slopes 3:1 to 4:1	14 days	7 days for perimeter dikes, swales, slopes and HWQ zones 7 days for slopes greater than 10:1 in length 10 days for Falls Lake Watershed
All other areas with slopes flatter than 4:1	14 days	7 days for perimeter dikes, swales, slopes and HWQ zones 10 days for Falls Lake Watershed

[illegible]

PART 4 - Signature of Inspector			
Financially Responsible Party (FRP) / Permitee		County	
INSPECTOR		Name	Employer
FRP/Permitee		Address	
Inspector Type (Mark X)		Email Address	
FRP/Permitee		Phone Number	
Agent/Designer		Email Address	
By this signature, I certify in accordance with the NC2009 permit § 6.5.133-54.1 that this report is accurate and complete to the best of my knowledge.			
Financially Responsible Party / Permitee or Agent / Designer		Date & Time of Inspection	

Date:	NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR FALL		Page:																						
NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR SUMMER	SEEDING MIXTURE <table border="1"> <thead> <tr> <th>Species</th> <th>Rate</th> </tr> </thead> <tbody> <tr> <td>Hard Fescue</td> <td>15 lbs/acre</td> </tr> <tr> <td>Switchgrass</td> <td>2.5-3.5 lbs/acre*</td> </tr> <tr> <td>Indian Grass</td> <td>5-7 lbs/acre*</td> </tr> <tr> <td>Big Bluestem</td> <td>5-7 lbs/acre*</td> </tr> <tr> <td>Indian Woodrats</td> <td>1.5-2.5 lbs/acre*</td> </tr> <tr> <td>Virginia Wild Rye</td> <td>4-6 lbs/acre*</td> </tr> </tbody> </table>		Species	Rate	Hard Fescue	15 lbs/acre	Switchgrass	2.5-3.5 lbs/acre*	Indian Grass	5-7 lbs/acre*	Big Bluestem	5-7 lbs/acre*	Indian Woodrats	1.5-2.5 lbs/acre*	Virginia Wild Rye	4-6 lbs/acre*	NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING SEEDING MIXTURE <table border="1"> <thead> <tr> <th>Species</th> <th>Rate</th> </tr> </thead> <tbody> <tr> <td>Centipede</td> <td>5 lbs/acre</td> </tr> <tr> <td>Indian Woodrats</td> <td>1.5-2.5 lbs/acre*</td> </tr> <tr> <td>Virginia Wild Rye</td> <td>4-6 lbs/acre*</td> </tr> </tbody> </table>	Species	Rate	Centipede	5 lbs/acre	Indian Woodrats	1.5-2.5 lbs/acre*	Virginia Wild Rye	4-6 lbs/acre*
	Species	Rate																							
Hard Fescue	15 lbs/acre																								
Switchgrass	2.5-3.5 lbs/acre*																								
Indian Grass	5-7 lbs/acre*																								
Big Bluestem	5-7 lbs/acre*																								
Indian Woodrats	1.5-2.5 lbs/acre*																								
Virginia Wild Rye	4-6 lbs/acre*																								
Species	Rate																								
Centipede	5 lbs/acre																								
Indian Woodrats	1.5-2.5 lbs/acre*																								
Virginia Wild Rye	4-6 lbs/acre*																								
SEEDING MIXTURE <table border="1"> <thead> <tr> <th>Species</th> <th>Rate</th> </tr> </thead> <tbody> <tr> <td>Indian Woodrats</td> <td>1.5-2.5 lbs/acre*</td> </tr> <tr> <td>Virginia Wild Rye</td> <td>4-6 lbs/acre*</td> </tr> </tbody> </table>	Species	Rate	Indian Woodrats	1.5-2.5 lbs/acre*	Virginia Wild Rye	4-6 lbs/acre*	*Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.																		
Species	Rate																								
Indian Woodrats	1.5-2.5 lbs/acre*																								
Virginia Wild Rye	4-6 lbs/acre*																								
	*Depending upon mix with other species. See table 6.11.d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.																								

* Depending upon mix with other species. See table 6.11, d from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.	Seeding Dates Mountains - Hard Fescue- Aug 1 - June 1 Mountains- Switchgrass, Indian Grass, Big Bluestem- Dec 1 - April 15 Piedmont and Coastal- Switchgrass, Indian Grass, Big Bluestem- Dec 1 - April 1 Coastal- Indian Woodslands and Virginia Wild Rye- Sept 1 - Nov 1	Seeding Dates Coastal or Eastern Piedmont for Centipede- Sept. 1 - May 1 Coastal and Piedmont for Indian Woodslands and Virginia Wild Rye- Feb 15 - April 1 Mountains for Indian Woodslands and Virginia Wild Rye- March 1 - May 15
Seeding Dates Mountains - July 15- Aug 15 Piedmont - Aug 15 - Oct 15	Maintenance: Indian Woodslands and Virginia Wild Rye are both sun and shade tolerant.	Maintenance: Significant maintenance may be required to obtain desired cover once centipede is planted. Acceptable for sod(9)00

SEED BED PREPARATION:

LIMING: Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1 to 1½ tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.

FERTILIZER: Apply fertilizer according to soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700-1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.

SURFACE ROUGHENING: If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even surface with a loose uniform fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.

NOTES:

1. Permanent seeding, sodding or other means of stabilization are required when all construction work is completed according to the NPDES timeframe's table.
2. A North Carolina Department of Agriculture soils test (or equal) is highly recommended to be obtained for all areas to be seeded, sprigged, sodded or planted.
3. Use a seeding mix that will produce fast growing nurse crops and includes non-invasive species that will eventually provide a permanent groundcover. Soil blankets may be used in lieu of nurse crops. Mat, tack or crimp mulch, as needed to stabilize seeded areas until root establishment. Mulch must be applied uniformly over the soil with a cover density of at least 80%.
4. Ground cover shall be maintained until permanent vegetation is established and stable against accelerated erosion.

 EFFECTIVE DATE: 11/12/2020	PERMANENT SEEDING RECOMMENDATIONS
	Content of the table body will be placed here

Date:		Page:											
TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING Seeding Mixture <table> <tr> <th>Species</th><th>Rate (lb/acre)</th></tr> <tr> <td>Rye (grain)</td><td>120</td></tr> <tr> <td>Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)</td><td>50</td></tr> </table> Omit annual lespedeza when duration of temporary cover is not to extend beyond June. Seeding Dates Mountains—Above 2500 feet: Feb. 15 - May 15 Below 2500 feet: Feb. 1 - May 1 Piedmont—Jan. 1 - May 1 Coastal Plain—Dec. 1 - Apr. 15 Mulch Apply 4,000 lb/acre 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 Re-fertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.		Species	Rate (lb/acre)	Rye (grain)	120	Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50	TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER Seeding Mixture <table> <tr> <th>Species</th><th>Rate (lb/acre)</th></tr> <tr> <td>German millet</td><td>40</td></tr> </table> In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre. Seeding Dates Mountains—May 15 - Aug. 15 Piedmont—May 1 - Aug. 15 Coastal Plain—Apr. 15 - Aug. 15 Mulch Apply 4,000 lb/acre 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 Re-fertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.		Species	Rate (lb/acre)	German millet	40
Species	Rate (lb/acre)												
Rye (grain)	120												
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50												
Species	Rate (lb/acre)												
German millet	40												
		TEMPORARY SEEDING RECOMMENDATIONS FOR FALL Seeding Mixture <table> <tr> <th>Species</th><th>Rate (lb/acre)</th></tr> <tr> <td>Rye (grain)</td><td>120</td></tr> </table> Seeding Dates Mountains—Aug. 15 - Dec. 15 Coastal Plain and Piedmont—Aug. 15 - Dec. 31 Mulch Apply 4,000 lb/acre 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 Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.		Species	Rate (lb/acre)	Rye (grain)	120						
Species	Rate (lb/acre)												
Rye (grain)	120												

SEED BED PREPARATION:

LIMING- Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1 to 1 1/2 tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.

FERTILIZER Use application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700-1000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.

SURFACE ROUGHENING- If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even surface with a loose uniform fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after the finished grades are obtained and seedbed preparation is completed.

 NORTH CAROLINA <i>Environmental Quality</i>	TEMPORARY SEEDING RECOMMENDATIONS
EFFECTIVE DATE: 11/12/2020	

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA <i>SOIL STABILIZATION TIMEFRAMES</i>			NEW PROJECT OR <u>EXISTING</u>	DISTRICT <u>PCOB</u>
			PROJECT	DATE
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>		
PERMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE		
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE		
SLOPES STEEPER THAN 3d1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2d1, 14 DAYS ARE ALLOWED.		
SLOPES 3d1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.		
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4d1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.		

GROUND STABILIZATION AND MATERIALS HANDLING SPECIFICATIONS FOR COMPLIANCE WITH THE NCSDS CONSTRUCTION GENERAL PERMIT			
Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the General Stabilization and Materials Handling Permit. The permittee is responsible for ensuring that the construction activity complies with the permit conditions. The permittee is responsible for ensuring that the construction activity complies with the permit conditions. The permittee is responsible for ensuring that the construction activity complies with the permit conditions.			
The permittee is responsible for ensuring that the construction activity complies with the permit conditions. The permittee is responsible for ensuring that the construction activity complies with the permit conditions. The permittee is responsible for ensuring that the construction activity complies with the permit conditions.			
The permittee is responsible for ensuring that the construction activity complies with the permit conditions. The permittee is responsible for ensuring that the construction activity complies with the permit conditions. The permittee is responsible for ensuring that the construction activity complies with the permit conditions.			
SECTION 6: GROUND STABILIZATION			
Site Area Description	Required Ground Stabilization Times/areas		Timeframe variations
	Stabilize within the given timeframes and/or within other existing stabilization	Stabilize within the given timeframes and/or within other existing stabilization	
(A) Perimeter ditches, ditches, and perimeter slopes	7	None	
(B) High quality water (H2O) Zones	7	None	
(C) Slopes steeper than 2:1	14	all slopes steeper than 2:1, 14 days are required 7 days for slopes greater than, 50 to 100 feet 14 days for slopes greater than 100 to 200 feet 21 days for slopes greater than 200 to 300 feet 28 days for slopes greater than 300 to 400 feet 35 days for slopes greater than 400 to 500 feet 42 days for slopes greater than 500 to 600 feet 49 days for slopes greater than 600 to 700 feet 56 days for slopes greater than 700 to 800 feet 63 days for slopes greater than 800 to 900 feet 70 days for slopes greater than 900 to 1000 feet	
(D) Slopes 2:1 to 4:1	14	all slopes 2:1 to 4:1, 14 days are required 7 days for slopes greater than, 50 to 100 feet 14 days for slopes greater than 100 to 200 feet 21 days for slopes greater than 200 to 300 feet 28 days for slopes greater than 300 to 400 feet 35 days for slopes greater than 400 to 500 feet 42 days for slopes greater than 500 to 600 feet 49 days for slopes greater than 600 to 700 feet 56 days for slopes greater than 700 to 800 feet 63 days for slopes greater than 800 to 900 feet 70 days for slopes greater than 900 to 1000 feet	
(E) Areas with slopes steeper than 4:1	14	all slopes steeper than 4:1, 14 days are required 7 days for slopes greater than, 50 to 100 feet 14 days for slopes greater than 100 to 200 feet 21 days for slopes greater than 200 to 300 feet 28 days for slopes greater than 300 to 400 feet 35 days for slopes greater than 400 to 500 feet 42 days for slopes greater than 500 to 600 feet 49 days for slopes greater than 600 to 700 feet 56 days for slopes greater than 700 to 800 feet 63 days for slopes greater than 800 to 900 feet 70 days for slopes greater than 900 to 1000 feet	
Note: After the permanent construction of structures, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as the construction is complete. Temporary ground stabilization shall be maintained in a manner to render the area safe against accelerated erosion until permanent ground stabilization is in place.			
GROUND STABILIZATION SPECIFICATION			
Stabilize the ground sufficiently so that it will not deliquesce the soil. Use one of the following methods:			
Temporary stabilization	Permanent stabilization	Timeframe	Notes
1. Temporary stabilization shall be done in a timely manner and shall be done in a timely manner.	1. Permanent stabilization shall be done in a timely manner and shall be done in a timely manner.	7 days	
2. Filled erosion control products will be used in a timely manner and shall be done in a timely manner.	2. Filled erosion control products will be used in a timely manner and shall be done in a timely manner.	14 days	
3. Appropriately apply topsoil over this or other P&H/OSD.	3. Appropriately apply topsoil over this or other P&H/OSD.	21 days	
4. Place steeper.	4. Place steeper.	28 days	
5. Place steeper.	5. Place steeper.	35 days	
6. Place steeper.	6. Place steeper.	42 days	
7. Place steeper.	7. Place steeper.	49 days	
8. Place steeper.	8. Place steeper.	56 days	
9. Place steeper.	9. Place steeper.	63 days	
10. Place steeper.	10. Place steeper.	70 days	
11. Place steeper.	11. Place steeper.	77 days	
12. Place steeper.	12. Place steeper.	84 days	
13. Place steeper.	13. Place steeper.	91 days	
14. Place steeper.	14. Place steeper.	98 days	
15. Place steeper.	15. Place steeper.	105 days	
16. Place steeper.	16. Place steeper.	112 days	
17. Place steeper.	17. Place steeper.	119 days	
18. Place steeper.	18. Place steeper.	126 days	
19. Place steeper.	19. Place steeper.	133 days	
20. Place steeper.	20. Place steeper.	140 days	
21. Place steeper.	21. Place steeper.	147 days	
22. Place steeper.	22. Place steeper.	154 days	
23. Place steeper.	23. Place steeper.	161 days	
24. Place steeper.	24. Place steeper.	168 days	
25. Place steeper.	25. Place steeper.	175 days	
26. Place steeper.	26. Place steeper.	182 days	
27. Place steeper.	27. Place steeper.	189 days	
28. Place steeper.	28. Place steeper.	196 days	
29. Place steeper.	29. Place steeper.	203 days	
30. Place steeper.	30. Place steeper.	210 days	
31. Place steeper.	31. Place steeper.	217 days	
32. Place steeper.	32. Place steeper.	224 days	
33. Place steeper.	33. Place steeper.	231 days	
34. Place steeper.	34. Place steeper.	238 days	
35. Place steeper.	35. Place steeper.	245 days	
36. Place steeper.	36. Place steeper.	252 days	
37. Place steeper.	37. Place steeper.	259 days	
38. Place steeper.	38. Place steeper.	266 days	
39. Place steeper.	39. Place steeper.	273 days	
40. Place steeper.	40. Place steeper.	280 days	
41. Place steeper.	41. Place steeper.	287 days	
42. Place steeper.	42. Place steeper.	294 days	
43. Place steeper.	43. Place steeper.	301 days	
44. Place steeper.	44. Place steeper.	308 days	
45. Place steeper.	45. Place steeper.	315 days	
46. Place steeper.	46. Place steeper.	322 days	
47. Place steeper.	47. Place steeper.	329 days	
48. Place steeper.	48. Place steeper.	336 days	
49. Place steeper.	49. Place steeper.	343 days	
50. Place steeper.	50. Place steeper.	350 days	
51. Place steeper.	51. Place steeper.	357 days	
52. Place steeper.	52. Place steeper.	364 days	
53. Place steeper.	53. Place steeper.	371 days	
54. Place steeper.	54. Place steeper.	378 days	
55. Place			

COASTAL GROUND STABILIZATION AND MATERIALS DATA

PART II SELF-INSPECTION, RECORDKEEPING AND REPORTING		PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING																																																																																																																																																																																																																																													
SECTION A: SELF-INSPECTION 1. Inspect and record, during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection to be compromised, the inspection may be postponed. The inspection must be resumed on the next business day which is a safe to perform the inspection. In addition, at a storm event of equal or greater magnitude than 24 hours of rain, the inspection must be performed on the day following the storm event. The inspection must be performed upon the completion of the peak business day. Any time when inspection is delayed shall be noted in the inspection report.		SECTION B: RECORDKEEPING 1. EROSION PLAN Documentation The approved EROSION plan is used as an approved deviation shall be kept on the site. The EROSION plan must be kept up-to-date throughout the course under this permit. The following information is required to be kept on the site and available for inspection at all times during normal business hours.																																																																																																																																																																																																																																													
2. EROSION MONITORING	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Inspection frequency</th> <th style="width: 15%;">Inspection location</th> <th style="width: 15%;">Inspection method</th> <th style="width: 15%;">Inspection results</th> </tr> </thead> <tbody> <tr> <td>1. 1st and 2nd annual inspection</td> <td>1. EROSION MONITORING</td> <td>1. Visual inspection</td> <td>1. No erosion observed</td> </tr> <tr> <td>2. 3rd annual inspection</td> <td>2. EROSION MONITORING</td> <td>2. Visual inspection</td> <td>2. No erosion observed</td> </tr> <tr> <td>3. 4th annual inspection</td> <td>3. EROSION MONITORING</td> <td>3. Visual inspection</td> <td>3. No erosion observed</td> </tr> <tr> <td>4. 5th annual inspection</td> <td>4. EROSION MONITORING</td> <td>4. Visual inspection</td> <td>4. No erosion observed</td> </tr> <tr> <td>5. 6th annual inspection</td> <td>5. EROSION MONITORING</td> <td>5. Visual inspection</td> <td>5. No erosion observed</td> </tr> <tr> <td>6. 7th annual inspection</td> <td>6. EROSION MONITORING</td> <td>6. Visual inspection</td> <td>6. No erosion observed</td> </tr> <tr> <td>7. 8th annual inspection</td> <td>7. EROSION MONITORING</td> <td>7. Visual inspection</td> <td>7. No erosion observed</td> </tr> <tr> <td>8. 9th annual inspection</td> <td>8. EROSION MONITORING</td> <td>8. Visual inspection</td> <td>8. No erosion observed</td> </tr> <tr> <td>9. 10th annual inspection</td> <td>9. EROSION MONITORING</td> <td>9. Visual inspection</td> <td>9. No erosion observed</td> </tr> <tr> <td>10. 11th annual inspection</td> <td>10. EROSION MONITORING</td> <td>10. Visual inspection</td> <td>10. No erosion observed</td> </tr> <tr> <td>11. 12th annual inspection</td> <td>11. EROSION MONITORING</td> <td>11. Visual inspection</td> <td>11. No erosion observed</td> </tr> <tr> <td>12. 13th annual inspection</td> <td>12. EROSION MONITORING</td> <td>12. Visual inspection</td> <td>12. No erosion observed</td> </tr> <tr> <td>13. 14th annual inspection</td> <td>13. EROSION MONITORING</td> <td>13. Visual inspection</td> <td>13. No erosion observed</td> </tr> <tr> <td>14. 15th annual inspection</td> <td>14. EROSION MONITORING</td> <td>14. Visual inspection</td> <td>14. No erosion observed</td> </tr> <tr> <td>15. 16th annual inspection</td> <td>15. EROSION MONITORING</td> <td>15. Visual inspection</td> <td>15. No erosion observed</td> </tr> <tr> <td>16. 17th annual inspection</td> <td>16. EROSION MONITORING</td> <td>16. Visual inspection</td> <td>16. No erosion observed</td> </tr> <tr> <td>17. 18th annual inspection</td> <td>17. EROSION MONITORING</td> <td>17. Visual inspection</td> <td>17. No erosion observed</td> </tr> <tr> <td>18. 19th annual inspection</td> <td>18. EROSION MONITORING</td> <td>18. Visual inspection</td> <td>18. No erosion observed</td> </tr> <tr> <td>19. 20th annual inspection</td> <td>19. EROSION MONITORING</td> <td>19. Visual inspection</td> <td>19. No erosion observed</td> </tr> <tr> <td>20. 21st annual inspection</td> <td>20. EROSION MONITORING</td> <td>20. Visual inspection</td> <td>20. No erosion observed</td> </tr> <tr> <td>21. 22nd annual inspection</td> <td>21. EROSION MONITORING</td> <td>21. Visual inspection</td> <td>21. No erosion observed</td> </tr> <tr> <td>22. 23rd annual inspection</td> <td>22. EROSION MONITORING</td> <td>22. Visual inspection</td> <td>22. No erosion observed</td> </tr> <tr> <td>23. 24th annual inspection</td> <td>23. EROSION MONITORING</td> <td>23. Visual inspection</td> <td>23. No erosion observed</td> </tr> <tr> <td>24. 25th annual inspection</td> <td>24. EROSION MONITORING</td> <td>24. Visual inspection</td> <td>24. No erosion observed</td> </tr> <tr> <td>25. 26th annual inspection</td> <td>25. EROSION MONITORING</td> <td>25. Visual inspection</td> <td>25. No erosion observed</td> </tr> <tr> <td>26. 27th annual inspection</td> <td>26. EROSION MONITORING</td> <td>26. Visual inspection</td> <td>26. No erosion observed</td> </tr> <tr> <td>27. 28th annual inspection</td> <td>27. EROSION MONITORING</td> <td>27. Visual inspection</td> <td>27. No erosion observed</td> </tr> <tr> <td>28. 29th annual inspection</td> <td>28. EROSION MONITORING</td> <td>28. Visual inspection</td> <td>28. No erosion observed</td> </tr> <tr> <td>29. 30th annual inspection</td> <td>29. EROSION MONITORING</td> <td>29. Visual inspection</td> <td>29. No erosion observed</td> </tr> <tr> <td>30. 31st annual inspection</td> <td>30. EROSION MONITORING</td> <td>30. Visual inspection</td> <td>30. No erosion observed</td> </tr> <tr> <td>31. 32nd annual inspection</td> <td>31. EROSION MONITORING</td> <td>31. Visual inspection</td> <td>31. No erosion observed</td> </tr> <tr> <td>32. 33rd annual inspection</td> <td>32. EROSION MONITORING</td> <td>32. Visual inspection</td> <td>32. No erosion observed</td> </tr> <tr> <td>33. 34th annual inspection</td> <td>33. EROSION MONITORING</td> <td>33. Visual inspection</td> <td>33. No erosion observed</td> </tr> <tr> <td>34. 35th annual inspection</td> <td>34. EROSION MONITORING</td> <td>34. Visual inspection</td> <td>34. No erosion observed</td> </tr> <tr> <td>35. 36th annual inspection</td> <td>35. EROSION MONITORING</td> <td>35. Visual inspection</td> <td>35. No erosion observed</td> </tr> <tr> <td>36. 37th annual inspection</td> <td>36. EROSION MONITORING</td> <td>36. Visual inspection</td> <td>36. No erosion observed</td> </tr> <tr> <td>37. 38th annual inspection</td> <td>37. EROSION MONITORING</td> <td>37. Visual inspection</td> <td>37. No erosion observed</td> </tr> <tr> <td>38. 39th annual inspection</td> <td>38. EROSION MONITORING</td> <td>38. Visual inspection</td> <td>38. No erosion observed</td> </tr> <tr> <td>39. 40th annual inspection</td> <td>39. EROSION MONITORING</td> <td>39. Visual inspection</td> <td>39. No erosion observed</td> </tr> <tr> <td>40. 41st annual inspection</td> <td>40. EROSION MONITORING</td> <td>40. Visual inspection</td> <td>40. No erosion observed</td> </tr> <tr> <td>41. 42nd annual inspection</td> <td>41. EROSION MONITORING</td> <td>41. Visual inspection</td> <td>41. No erosion observed</td> </tr> <tr> <td>42. 43rd annual inspection</td> <td>42. EROSION MONITORING</td> <td>42. Visual inspection</td> <td>42. No erosion observed</td> </tr> <tr> <td>43. 44th annual inspection</td> <td>43. EROSION MONITORING</td> <td>43. Visual inspection</td> <td>43. No erosion observed</td> </tr> <tr> <td>44. 45th annual inspection</td> <td>44. EROSION MONITORING</td> <td>44. Visual inspection</td> <td>44. No erosion observed</td> </tr> <tr> <td>45. 46th annual inspection</td> <td>45. EROSION MONITORING</td> <td>45. Visual inspection</td> <td>45. No erosion observed</td> </tr> <tr> <td>46. 47th annual inspection</td> <td>46. EROSION MONITORING</td> <td>46. Visual inspection</td> <td>46. No erosion observed</td> </tr> <tr> <td>47. 48th annual inspection</td> <td>47. EROSION MONITORING</td> <td>47. Visual inspection</td> <td>47. No erosion observed</td> </tr> <tr> <td>48. 49th annual inspection</td> <td>48. EROSION MONITORING</td> <td>48. Visual inspection</td> <td>48. No erosion observed</td> </tr> <tr> <td>49. 50th annual inspection</td> <td>49. EROSION MONITORING</td> <td>49. Visual inspection</td> <td>49. No erosion observed</td> </tr> <tr> <td>50. 51st annual inspection</td> <td>50. EROSION MONITORING</td> <td>50. Visual inspection</td> <td>50. No erosion observed</td> </tr> <tr> <td>51. 52nd annual inspection</td> <td>51. EROSION MONITORING</td> <td>51. Visual inspection</td> <td>51. No erosion observed</td> </tr> <tr> <td>52. 53rd annual inspection</td> <td>52. EROSION MONITORING</td> <td>52. Visual inspection</td> <td>52. No erosion observed</td> </tr> <tr> <td>53. 54th annual inspection</td> <td>53. EROSION MONITORING</td> <td>53. Visual inspection</td> <td>53. No erosion observed</td> </tr> <tr> <td>54. 55th annual inspection</td> <td>54. EROSION MONITORING</td> <td>54. Visual inspection</td> <td>54. No erosion observed</td> </tr> <tr> <td>55. 56th annual inspection</td> <td>55. EROSION MONITORING</td> <td>55. Visual inspection</td> <td>55. No erosion observed</td> </tr> <tr> <td>56. 57th annual inspection</td> <td>56. EROSION MONITORING</td> <td>56. Visual inspection</td> <td>56. No erosion observed</td> </tr> <tr> <td>57. 58th annual inspection</td> <td>57. EROSION MONITORING</td> <td>57. Visual inspection</td> <td>57. No erosion observed</td> </tr> <tr> <td>58. 59th annual inspection</td> <td>58. EROSION MONITORING</td> <td>58. Visual inspection</td> <td>58. No erosion observed</td> </tr> <tr> <td>59. 60th annual inspection</td> <td>59. EROSION</td></tr></tbody></table>	Inspection frequency	Inspection location	Inspection method	Inspection results	1. 1st and 2nd annual inspection	1. EROSION MONITORING	1. Visual inspection	1. No erosion observed	2. 3rd annual inspection	2. EROSION MONITORING	2. Visual inspection	2. No erosion observed	3. 4th annual inspection	3. EROSION MONITORING	3. Visual inspection	3. No erosion observed	4. 5th annual inspection	4. EROSION MONITORING	4. Visual inspection	4. No erosion observed	5. 6th annual inspection	5. EROSION MONITORING	5. Visual inspection	5. No erosion observed	6. 7th annual inspection	6. EROSION MONITORING	6. Visual inspection	6. No erosion observed	7. 8th annual inspection	7. EROSION MONITORING	7. Visual inspection	7. No erosion observed	8. 9th annual inspection	8. EROSION MONITORING	8. Visual inspection	8. No erosion observed	9. 10th annual inspection	9. EROSION MONITORING	9. Visual inspection	9. No erosion observed	10. 11th annual inspection	10. EROSION MONITORING	10. Visual inspection	10. No erosion observed	11. 12th annual inspection	11. EROSION MONITORING	11. Visual inspection	11. No erosion observed	12. 13th annual inspection	12. EROSION MONITORING	12. Visual inspection	12. No erosion observed	13. 14th annual inspection	13. EROSION MONITORING	13. Visual inspection	13. No erosion observed	14. 15th annual inspection	14. EROSION MONITORING	14. Visual inspection	14. No erosion observed	15. 16th annual inspection	15. EROSION MONITORING	15. Visual inspection	15. No erosion observed	16. 17th annual inspection	16. EROSION MONITORING	16. Visual inspection	16. No erosion observed	17. 18th annual inspection	17. EROSION MONITORING	17. Visual inspection	17. No erosion observed	18. 19th annual inspection	18. EROSION MONITORING	18. Visual inspection	18. No erosion observed	19. 20th annual inspection	19. EROSION MONITORING	19. Visual inspection	19. No erosion observed	20. 21st annual inspection	20. EROSION MONITORING	20. Visual inspection	20. No erosion observed	21. 22nd annual inspection	21. EROSION MONITORING	21. Visual inspection	21. No erosion observed	22. 23rd annual inspection	22. EROSION MONITORING	22. Visual inspection	22. No erosion observed	23. 24th annual inspection	23. EROSION MONITORING	23. Visual inspection	23. No erosion observed	24. 25th annual inspection	24. EROSION MONITORING	24. Visual inspection	24. No erosion observed	25. 26th annual inspection	25. EROSION MONITORING	25. Visual inspection	25. No erosion observed	26. 27th annual inspection	26. EROSION MONITORING	26. Visual inspection	26. No erosion observed	27. 28th annual inspection	27. EROSION MONITORING	27. Visual inspection	27. No erosion observed	28. 29th annual inspection	28. EROSION MONITORING	28. Visual inspection	28. No erosion observed	29. 30th annual inspection	29. EROSION MONITORING	29. Visual inspection	29. No erosion observed	30. 31st annual inspection	30. EROSION MONITORING	30. Visual inspection	30. No erosion observed	31. 32nd annual inspection	31. EROSION MONITORING	31. Visual inspection	31. No erosion observed	32. 33rd annual inspection	32. EROSION MONITORING	32. Visual inspection	32. No erosion observed	33. 34th annual inspection	33. EROSION MONITORING	33. Visual inspection	33. No erosion observed	34. 35th annual inspection	34. EROSION MONITORING	34. Visual inspection	34. No erosion observed	35. 36th annual inspection	35. EROSION MONITORING	35. Visual inspection	35. No erosion observed	36. 37th annual inspection	36. EROSION MONITORING	36. Visual inspection	36. No erosion observed	37. 38th annual inspection	37. EROSION MONITORING	37. Visual inspection	37. No erosion observed	38. 39th annual inspection	38. EROSION MONITORING	38. Visual inspection	38. No erosion observed	39. 40th annual inspection	39. EROSION MONITORING	39. Visual inspection	39. No erosion observed	40. 41st annual inspection	40. EROSION MONITORING	40. Visual inspection	40. No erosion observed	41. 42nd annual inspection	41. EROSION MONITORING	41. Visual inspection	41. No erosion observed	42. 43rd annual inspection	42. EROSION MONITORING	42. Visual inspection	42. No erosion observed	43. 44th annual inspection	43. EROSION MONITORING	43. Visual inspection	43. No erosion observed	44. 45th annual inspection	44. EROSION MONITORING	44. Visual inspection	44. No erosion observed	45. 46th annual inspection	45. EROSION MONITORING	45. Visual inspection	45. No erosion observed	46. 47th annual inspection	46. EROSION MONITORING	46. Visual inspection	46. No erosion observed	47. 48th annual inspection	47. EROSION MONITORING	47. Visual inspection	47. No erosion observed	48. 49th annual inspection	48. EROSION MONITORING	48. Visual inspection	48. No erosion observed	49. 50th annual inspection	49. EROSION MONITORING	49. Visual inspection	49. No erosion observed	50. 51st annual inspection	50. EROSION MONITORING	50. Visual inspection	50. No erosion observed	51. 52nd annual inspection	51. EROSION MONITORING	51. Visual inspection	51. No erosion observed	52. 53rd annual inspection	52. EROSION MONITORING	52. Visual inspection	52. No erosion observed	53. 54th annual inspection	53. EROSION MONITORING	53. Visual inspection	53. No erosion observed	54. 55th annual inspection	54. EROSION MONITORING	54. Visual inspection	54. No erosion observed	55. 56th annual inspection	55. EROSION MONITORING	55. Visual inspection	55. No erosion observed	56. 57th annual inspection	56. EROSION MONITORING	56. Visual inspection	56. No erosion observed	57. 58th annual inspection	57. EROSION MONITORING	57. Visual inspection	57. No erosion observed	58. 59th annual inspection	58. EROSION MONITORING	58. Visual inspection	58. No erosion observed	59. 60th annual inspection	59. EROSION
Inspection frequency	Inspection location	Inspection method	Inspection results																																																																																																																																																																																																																																												
1. 1st and 2nd annual inspection	1. EROSION MONITORING	1. Visual inspection	1. No erosion observed																																																																																																																																																																																																																																												
2. 3rd annual inspection	2. EROSION MONITORING	2. Visual inspection	2. No erosion observed																																																																																																																																																																																																																																												
3. 4th annual inspection	3. EROSION MONITORING	3. Visual inspection	3. No erosion observed																																																																																																																																																																																																																																												
4. 5th annual inspection	4. EROSION MONITORING	4. Visual inspection	4. No erosion observed																																																																																																																																																																																																																																												
5. 6th annual inspection	5. EROSION MONITORING	5. Visual inspection	5. No erosion observed																																																																																																																																																																																																																																												
6. 7th annual inspection	6. EROSION MONITORING	6. Visual inspection	6. No erosion observed																																																																																																																																																																																																																																												
7. 8th annual inspection	7. EROSION MONITORING	7. Visual inspection	7. No erosion observed																																																																																																																																																																																																																																												
8. 9th annual inspection	8. EROSION MONITORING	8. Visual inspection	8. No erosion observed																																																																																																																																																																																																																																												
9. 10th annual inspection	9. EROSION MONITORING	9. Visual inspection	9. No erosion observed																																																																																																																																																																																																																																												
10. 11th annual inspection	10. EROSION MONITORING	10. Visual inspection	10. No erosion observed																																																																																																																																																																																																																																												
11. 12th annual inspection	11. EROSION MONITORING	11. Visual inspection	11. No erosion observed																																																																																																																																																																																																																																												
12. 13th annual inspection	12. EROSION MONITORING	12. Visual inspection	12. No erosion observed																																																																																																																																																																																																																																												
13. 14th annual inspection	13. EROSION MONITORING	13. Visual inspection	13. No erosion observed																																																																																																																																																																																																																																												
14. 15th annual inspection	14. EROSION MONITORING	14. Visual inspection	14. No erosion observed																																																																																																																																																																																																																																												
15. 16th annual inspection	15. EROSION MONITORING	15. Visual inspection	15. No erosion observed																																																																																																																																																																																																																																												
16. 17th annual inspection	16. EROSION MONITORING	16. Visual inspection	16. No erosion observed																																																																																																																																																																																																																																												
17. 18th annual inspection	17. EROSION MONITORING	17. Visual inspection	17. No erosion observed																																																																																																																																																																																																																																												
18. 19th annual inspection	18. EROSION MONITORING	18. Visual inspection	18. No erosion observed																																																																																																																																																																																																																																												
19. 20th annual inspection	19. EROSION MONITORING	19. Visual inspection	19. No erosion observed																																																																																																																																																																																																																																												
20. 21st annual inspection	20. EROSION MONITORING	20. Visual inspection	20. No erosion observed																																																																																																																																																																																																																																												
21. 22nd annual inspection	21. EROSION MONITORING	21. Visual inspection	21. No erosion observed																																																																																																																																																																																																																																												
22. 23rd annual inspection	22. EROSION MONITORING	22. Visual inspection	22. No erosion observed																																																																																																																																																																																																																																												
23. 24th annual inspection	23. EROSION MONITORING	23. Visual inspection	23. No erosion observed																																																																																																																																																																																																																																												
24. 25th annual inspection	24. EROSION MONITORING	24. Visual inspection	24. No erosion observed																																																																																																																																																																																																																																												
25. 26th annual inspection	25. EROSION MONITORING	25. Visual inspection	25. No erosion observed																																																																																																																																																																																																																																												
26. 27th annual inspection	26. EROSION MONITORING	26. Visual inspection	26. No erosion observed																																																																																																																																																																																																																																												
27. 28th annual inspection	27. EROSION MONITORING	27. Visual inspection	27. No erosion observed																																																																																																																																																																																																																																												
28. 29th annual inspection	28. EROSION MONITORING	28. Visual inspection	28. No erosion observed																																																																																																																																																																																																																																												
29. 30th annual inspection	29. EROSION MONITORING	29. Visual inspection	29. No erosion observed																																																																																																																																																																																																																																												
30. 31st annual inspection	30. EROSION MONITORING	30. Visual inspection	30. No erosion observed																																																																																																																																																																																																																																												
31. 32nd annual inspection	31. EROSION MONITORING	31. Visual inspection	31. No erosion observed																																																																																																																																																																																																																																												
32. 33rd annual inspection	32. EROSION MONITORING	32. Visual inspection	32. No erosion observed																																																																																																																																																																																																																																												
33. 34th annual inspection	33. EROSION MONITORING	33. Visual inspection	33. No erosion observed																																																																																																																																																																																																																																												
34. 35th annual inspection	34. EROSION MONITORING	34. Visual inspection	34. No erosion observed																																																																																																																																																																																																																																												
35. 36th annual inspection	35. EROSION MONITORING	35. Visual inspection	35. No erosion observed																																																																																																																																																																																																																																												
36. 37th annual inspection	36. EROSION MONITORING	36. Visual inspection	36. No erosion observed																																																																																																																																																																																																																																												
37. 38th annual inspection	37. EROSION MONITORING	37. Visual inspection	37. No erosion observed																																																																																																																																																																																																																																												
38. 39th annual inspection	38. EROSION MONITORING	38. Visual inspection	38. No erosion observed																																																																																																																																																																																																																																												
39. 40th annual inspection	39. EROSION MONITORING	39. Visual inspection	39. No erosion observed																																																																																																																																																																																																																																												
40. 41st annual inspection	40. EROSION MONITORING	40. Visual inspection	40. No erosion observed																																																																																																																																																																																																																																												
41. 42nd annual inspection	41. EROSION MONITORING	41. Visual inspection	41. No erosion observed																																																																																																																																																																																																																																												
42. 43rd annual inspection	42. EROSION MONITORING	42. Visual inspection	42. No erosion observed																																																																																																																																																																																																																																												
43. 44th annual inspection	43. EROSION MONITORING	43. Visual inspection	43. No erosion observed																																																																																																																																																																																																																																												
44. 45th annual inspection	44. EROSION MONITORING	44. Visual inspection	44. No erosion observed																																																																																																																																																																																																																																												
45. 46th annual inspection	45. EROSION MONITORING	45. Visual inspection	45. No erosion observed																																																																																																																																																																																																																																												
46. 47th annual inspection	46. EROSION MONITORING	46. Visual inspection	46. No erosion observed																																																																																																																																																																																																																																												
47. 48th annual inspection	47. EROSION MONITORING	47. Visual inspection	47. No erosion observed																																																																																																																																																																																																																																												
48. 49th annual inspection	48. EROSION MONITORING	48. Visual inspection	48. No erosion observed																																																																																																																																																																																																																																												
49. 50th annual inspection	49. EROSION MONITORING	49. Visual inspection	49. No erosion observed																																																																																																																																																																																																																																												
50. 51st annual inspection	50. EROSION MONITORING	50. Visual inspection	50. No erosion observed																																																																																																																																																																																																																																												
51. 52nd annual inspection	51. EROSION MONITORING	51. Visual inspection	51. No erosion observed																																																																																																																																																																																																																																												
52. 53rd annual inspection	52. EROSION MONITORING	52. Visual inspection	52. No erosion observed																																																																																																																																																																																																																																												
53. 54th annual inspection	53. EROSION MONITORING	53. Visual inspection	53. No erosion observed																																																																																																																																																																																																																																												
54. 55th annual inspection	54. EROSION MONITORING	54. Visual inspection	54. No erosion observed																																																																																																																																																																																																																																												
55. 56th annual inspection	55. EROSION MONITORING	55. Visual inspection	55. No erosion observed																																																																																																																																																																																																																																												
56. 57th annual inspection	56. EROSION MONITORING	56. Visual inspection	56. No erosion observed																																																																																																																																																																																																																																												
57. 58th annual inspection	57. EROSION MONITORING	57. Visual inspection	57. No erosion observed																																																																																																																																																																																																																																												
58. 59th annual inspection	58. EROSION MONITORING	58. Visual inspection	58. No erosion observed																																																																																																																																																																																																																																												
59. 60th annual inspection	59. EROSION																																																																																																																																																																																																																																														

NCG01 SELF-INSPECTION, RECORDKEEPING AND REP

NC
Water Resources
Environmental Quality

ROY COOPER
Governor

MICHAEL S. REGAN
Governor

S. JAY ZIMMERMAN
Director

North Carolina DWR List of Approved PAMS/Flocculants

Company	Product	Maximum Recommended Concentration
Applied Polymer System	APS 712	50.3 ppm
Applied Polymer System	APS 730	5.6 ppm
Applied Polymer System	APS 740	5.2 ppm
Applied Polymer System	APS 703d	
Applied Polymer System	70340b3	--
Applied Polymer System	APS 706b	
Applied Polymer System	APS 705	27.7 ppm
Aquarium, Inc.	AQ100	Land surface application only at 38.7 ppm
Aquarium, Inc.	AQ109	Land surface application only at 0.180pp1
Ashland Hercules Water Tech	Ashland Charge Pac 55	10 mg/L
Ashland Hercules Water Tech	Ashland Zalta MK 9500	10 mg/L
Cape Fear Consulting	PACX-CF-C9A	5 ppm
Cape Fear Consulting	CF-CF-430	4.5 ppm
Carolina Hydrologics	HYDROLOC PAM	Land surface application only at 3.0 mg/L
Carolina Hydrologics	Flow Roll/Line/Fall	50 mg/L
Chemical Solutions, Inc.	CS-1234 and/or CS-1234D	500 mg/L per 1% solids ("see below")
Chemical Solutions, Inc.	MK1754D	10 mg/L
Chen Techniques	Sil1 Delapder	Land surface application only at 0.008%
CheloSource, Inc.	GeoFlocc	2.58 mg/L
CheloSource, Inc.	LEB-2101	500 mg/L
Hanes Geo Components	TerraGuard Granular PAM	3.25mg/L
Innovative Turf Solutions	EnviroRam	200 mg/L
Innovative Turf Solutions	Erosion Guard Powder, Erosion Guard Logs/Erosion Guard Flats	200 mg/L
Innovative Turf Solutions	FLOC	650 mg/L
Leanner Meener Greener, Inc.	L.M.G. Dust Magnet 281 Solution	0.05%
Leanner Meener Greener, Inc.	L.M.G. Dust Magnet 163 powder	0.5 mg/L
Leanner Meener Greener, Inc.	DSP-210	28.125 mg/L
Nalco	Nalco 8187	100 ppm
NTU	GeoScrub 10, 13, 20, 23, 34	10 mg/L
NTU	GeoScrub Bubbles	1 mg/L
Paschal Associates Sales	PER P251	75 ppm
Southeastern Laboratories	SFL FLOC 6026	2.5 mg/L
Storm Kleer	3% Liquid-Floc	9.4 mg/L
Terra Novo	EarthGuard	000625 mL/L

All these products should be used per the manufacturer's instruction and with Best Management Practices.

Additional information for specific products:

- For use and toxicity guidance regarding CS-1234 and/or CS-1234D, please contact Cindy Moore with the DWR Aquatic Toxicology Branch at (919) 734-8442 or at cindy.a.moore@ndot.gov

Note: North Carolina Environmental Quality Water Action Notice
 211 Mail Service Center | Raleigh, North Carolina 27699-1621
 919-741-8880



Colliers

Engineering & Design,

Architecture, Landscape Architecture, Surveying, C.T.C.

www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is a sub-work of or for the project for which the services were contracted or to whom it is certified. This drawing may not be copied, revised, reprinted, reproduced or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residues in accordance with local and state solid waste regulations and/or in accordance with the following:
3. Manage washout from motor mixers in accordance with the above items and then discharge the motor and materials into a separate container and dispose of the material in a permitter fill site.
4. Install temporary concrete washout per local requirements, when applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. Obtain standard details for use on-site. Use one of the types of temporary concrete washouts approved on this detail.
5. Do not use concrete washout for concrete curing or for storing deleterious oils or petroleum products. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain or receiving surface water. Stormwater must be pumped out and removed from project.
6. Do not use concrete washout to store or dump debris from storm drain and surface waters unless it can be shown that no other alternatives are reasonably available. As a minimum, full protection of storm drain inlets to the washout which could receive spills or overflow.
7. Locate washout in an easily accessible area, on level ground and install a storm entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage at this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Remove the large, solid bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of it in an approved disposal facility. If not, if applicable, and stabilize any disturbance caused by removal of washout.



Doing Business as

811

Call Before You Dig

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISURB THE SURFACE ANYWAY IN ANY STATE

FOR STATE SPECIFIC DETAIL PHONE NUMBERS VISIT: WWW.CALL811.COM

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 with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials outside.

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.

LANDING
EFFECTIVE: 04/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING
1. Occurrences that Must be Reported
 Permitted Self-Inspection shall report the following occurrences:
 (a) Visible sediment deposition in a stream or wetland.
 (b) Oil spills if:
 • They are 25 gallons or more,
 • They are less than 25 gallons but cannot be cleaned up within 24 hours,
 • They cause sheen on surface waters (regardless of volume), or
 • They are within 100 feet of surface waters (regardless of volume).
 (c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (40 CFR 113.3 and 40 CFR 117.3) or Section 302 of CERCLA (40 CFR 302.4) or G.S. 154-215.85.
 (d) Anticipated bypasses and violations of bypass.
 (e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timelines and Other Requirements
 After a permitted licensee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeliness and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Response personnel at (919) 858-0368.

Reporting Timeliness (Other Discharges and Other Requirements)
 (a) **Within 48 hours**, an oral or electronic notification.
 • **Within 48 hours**, a report that includes a description of the sediment and actions taken to address the cause of the deposition. Division staff may make the requirement for a written report on a case-by-case basis.
 • If the incident is covered on the [NC 2019-2024](#) as required for sediment discharges, the permittee may be required to perform additional monitoring, inspection or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state treatment conditions.
 • **Within 48 hours**, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
 (b) **Report of less than ten days** before the date of the spillage, **if possible**. The report shall include an evaluation of the anticipated quality of a report of less than ten days before the date of the spillage, **if possible**.
 (c) **Within 48 hours**, an oral or electronic notification.
 • **Within 48 hours**, a report that includes an evaluation of the quality and effect of the spillage.
 (d) **Within 48 hours**, an oral or electronic notification.
 • **Within 48 hours**, a report that contains a description of the noncompliance, and its cause, the period of noncompliance, the discharge dates and times, and the actions taken to prevent noncompliance, the mitigation, the consequences to the riparianity, the consequences to the community, and steps taken or planned to reduce, eliminate, and prevent noncompliance. (40 CFR 333-1106)
 • Division staff may make the requirement for a written report on a case-by-case basis.

NORTH CAROLINA
Environmental Quality

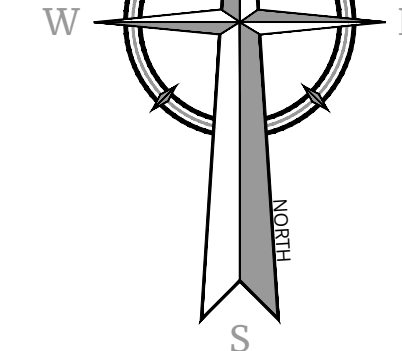
Case No. P. Whiteman

PORTING	EFFECTIVE: 04/01/19	Casey R. Whiteman NORTH CAROLINA PROFESSIONAL ENGINEER LICENSE NUMBER: 059701 COLLIER ENGINEERING & DESIGN CT, P.C. N.C. #: C-4746
---------	---------------------	--

CONDITIONAL ZONING PLAN

FOR
KEYSTONE CUSTOM

WEDDINGTON			
PIN 07150015 3009 FOREST LAWN DRIVE			
WEDDINGTON UNION COUNTY NORTH CAROLINA			
 Engineering & Design, Architecture, Landscape Architecture, Surveying, C.T.P.C. CHARLOTTE 5275 Parkway Plaza Boulevard, Suite 100 Charlotte, NC 28217 Phone: 980.245.3161 COLLIERS ENGINEERING & DESIGN ARCHITECTURE, LANDSCAPE ARCHITECTURE, SURVEYING, C.T.P.C. DOING BUSINESS AS MDSR CONSULTING			
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	09/25/25	NWB	CW
PROJECT NUMBER:	DRAWING NAME:		
25003536A	C-SESC		
SHEET TITLE: SOIL EROSION & SEDIMENT CONTROL DETAILS			
SHEET NUMBER:			



Engineering
& Design,
Architecture, Landscape
Architecture, Surveying, &

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.



PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C. #: C-4746

CONDITIONAL ZONING
PLAN

FOR

KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

**Engineering
& Design,**
Architecture, Landscape
Architecture, Surveying, CT P.C.

CHARLOTTE
5275 Parkway Plaza Boulevard
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161

COLLIERS ENGINEERING & DESIGN,
ARCHITECTURE, LANDSCAPE ARCHITECTURE,
SURVEYING, CT P.C. DOING BUSINESS AS MASEI
CONSULTING

SCALE: AS SHOWN	DATE: 09/25/25	DRAWN BY: NWB	CHECKED BY: CW
PROJECT NUMBER: 25003536A		DRAWING NAME: C-LAND	

SHEET TITLE:

TREE REMOVAL PLAN

SHEET NUMBER: C-600

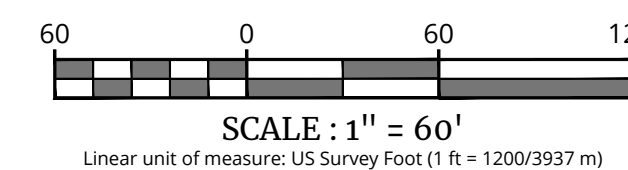
NOTES

1. SEE SHEET C-001 FOR GENERAL NOTES.
2. CONTRACTOR SHALL REFER TO OTHERS PLANS WITHIN THIS PLAN SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.
3. CONTRACTOR TO VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
4. CONTRACTOR SHALL CONTACT NC 811 A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION.
5. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL UTILITY COMPANIES AND COMPLY TO THE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS.
6. SITE TO BE FULLY PERMANENTLY STABILIZED, WITH NO AREAS LEFT AS BARE SOILS.

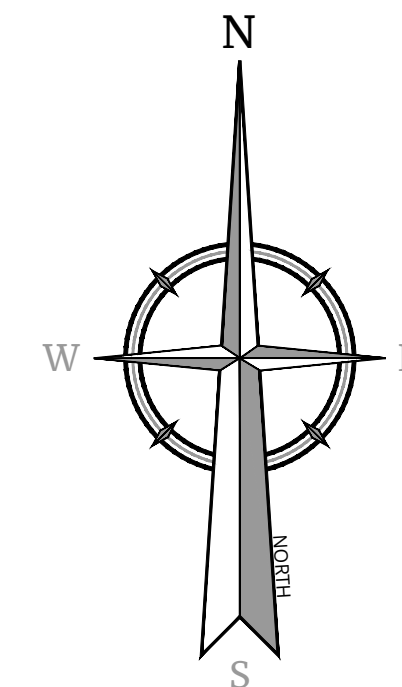
HERITAGE TREE REMOVAL

HERITAGE TREES INSIDE BUILDABLE AREA= 123 TREES
HERITAGE TREES INSIDE BUILDABLE AREA REMOVED = 107 TREES
HERITAGE TREES INSIDE BUILDABLE AREA REMAINING = 16 TREES

EXISTING	LEGEND	PROPOSED
	TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EDGE OF PAVEMENT	
	CURB	
	DEPRESSED CURB	
	SIDEWALK	
	FENCES	
	TREELINE	
	ROADWAY SIGNS	
	WETLAND LINE	
	MUNICIPAL BOUNDARY LINE	
	STALL COUNT	
	ADA ACCESSIBLE STALL	
	DEPRESSED CURB AND ADA RAMP	
	DIRECTION OF TRAFFIC FLOW	



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

**Colliers**

Engineering
& Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.
www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design. All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party to whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as **MASER**
CONSULTING



PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	11-1-84		
2	1-1-84		
3	1-1-84		
4	1-1-84		
5	1-1-84		
6	1-1-84		
7	1-1-84		
8	1-1-84		
9	1-1-84		
10	1-1-84		
11	1-1-84		
12	1-1-84		
13	1-1-84		
14	1-1-84		
15	1-1-84		
16	1-1-84		
17	1-1-84		
18	1-1-84		
19	1-1-84		
20	1-1-84		
21	1-1-84		
22	1-1-84		
23	1-1-84		
24	1-1-84		
25	1-1-84		
26	1-1-84		
27	1-1-84		
28	1-1-84		
29	1-1-84		
30	1-1-84		
31	1-1-84		
32	1-1-84		
33	1-1-84		
34	1-1-84		
35	1-1-84		
36	1-1-84		
37	1-1-84		
38	1-1-84		
39	1-1-84		
40	1-1-84		
41	1-1-84		
42	1-1-84		
43	1-1-84		
44	1-1-84		
45	1-1-84		
46	1-1-84		
47	1-1-84		
48	1-1-84		
49	1-1-84		
50	1-1-84		
51	1-1-84		
52	1-1-84		
53	1-1-84		
54	1-1-84		
55	1-1-84		
56	1-1-84		
57	1-1-84		
58	1-1-84		
59	1-1-84		
60	1-1-84		
61	1-1-84		
62	1-1-84		
63	1-1-84		
64	1-1-84		
65	1-1-84		
66	1-1-84		
67	1-1-84		
68	1-1-84		
69	1-1-84		
70	1-1-84		
71	1-1-84		
72	1-1-84		
73	1-1-84		
74	1-1-84		
75	1-1-84		
76	1-1-84		
77	1-1-84		
78	1-1-84		
79	1-1-84		
80	1-1-84		
81	1-1-84		
82	1-1-84		
83	1-1-84		
84	1-1-84		
85	1-1-84		
86	1-1-84		
87	1-1-84		
88	1-1-84		
89	1-1-84		
90	1-1-84		
91	1-1-84		
92	1-1-84		
93	1-1-84		
94	1-1-84		
95	1-1-84		
96	1-1-84		
97	1-1-84		
98	1-1-84		
99	1-1-84		
100	1-1-84		

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.A.
N.C. #: C-4746

CONDITIONAL ZONING
PLAN
FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers
Engineering
& Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.

SCALE: AS SHOWN	DATE: 09/25/25	DRAWN BY: NWB	CHECKED BY: CW
PROJECT NUMBER: 250035364		DRAWING NAME: C-LAND	

SHEET TITLE:

PLANTING PLAN

SHEET NUMBER: C-601

NOTES

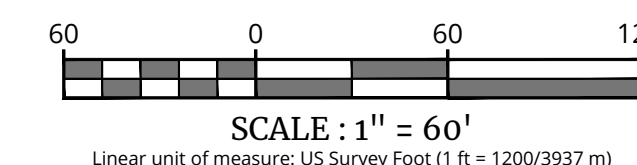
1. SEE SHEET C-001 FOR GENERAL NOTES.
2. CONTRACTOR SHALL REFER TO OTHERS PLANS WITHIN THIS PLAN SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.
3. CONTRACTOR TO VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
4. CONTRACTOR SHALL CONTACT NC 811 A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION.
5. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL UTILITY COMPANIES AND COMPLY TO THE UTILITY COMPANIES STANDARDS AND SPECIFICATIONS.
6. SITE TO BE FULLY PERMANENTLY STABILIZED, WITH NO AREAS LEFT AS BARE SOILS.

TREE PLANTING PLAN:

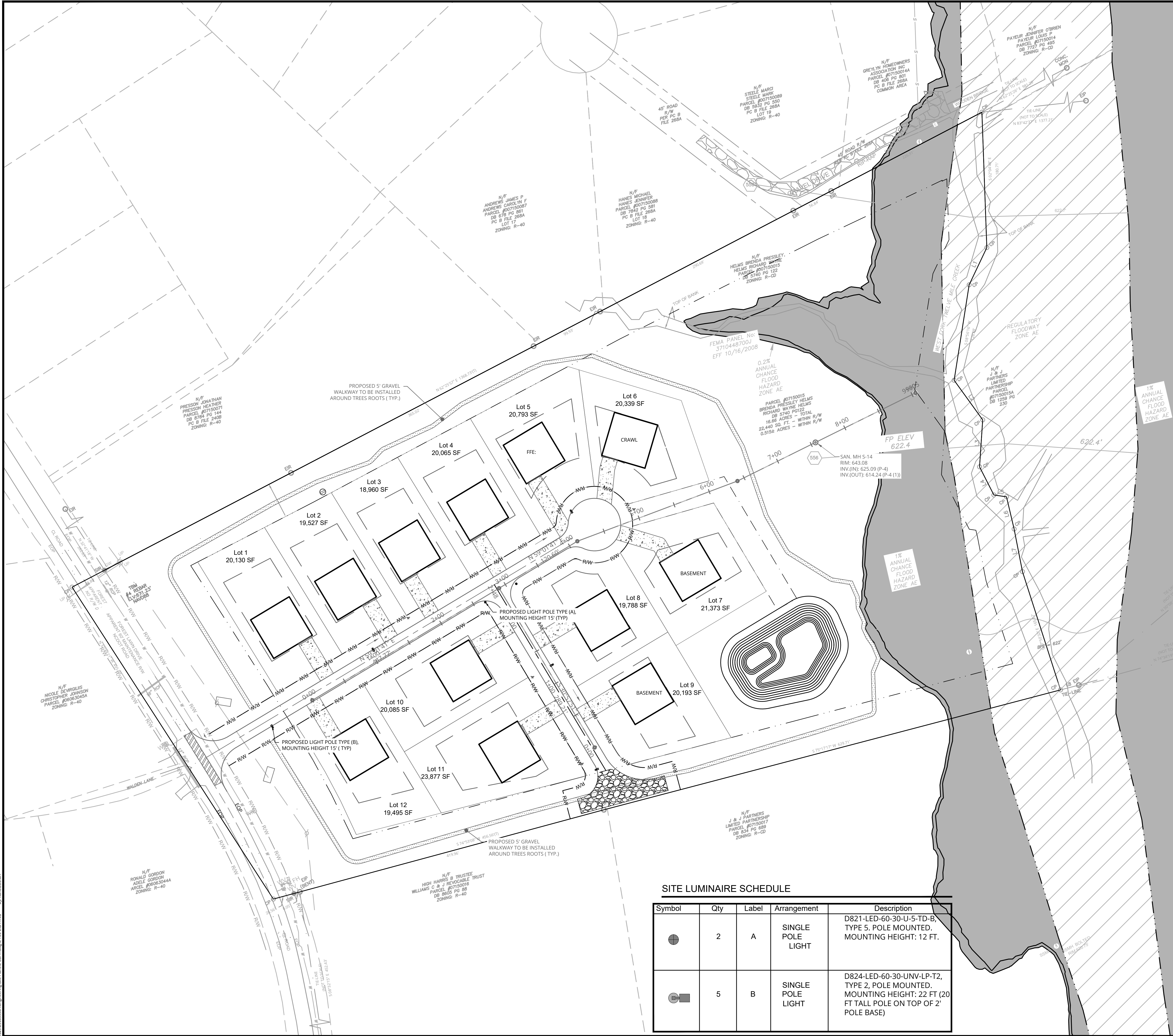
BUFFER TREES REQUIRED = 39 TREES
 BUFFER TREES PROVIDED = 39 TREES
 LOT TREES REQUIRED = 48 TREES
 LOT TREES PROVIDED = 48 TREES
 STREET TREES REQUIRED = 24 TREES
 STREET TREES PROVIDED = 24 TREES
 TOTAL HERITAGE TREES = 192 TREES
 TOTAL HERITAGE TREES REMOVED = 111
 TOTAL HERITAGE TREES REMAINING = 81

HERITAGE TREES INSIDE BUILDABLE AREA= 123 TREES
HERITAGE TREES INSIDE BUILDABLE AREA REMOVED = 107 TREES
HERITAGE TREES INSIDE BUILDABLE AREA REMAINING = 16 TREES

EXISTING		LEGEND	PROPOSED	
		TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)		
		RIGHT OF WAY LINE		
		PROPERTY LINE		
		EDGE OF PAVEMENT		
		CURB		
		DEPRESSED CURB		
		SIDEWALK		
		FENCES		
		TREELINE		
		ROADWAY SIGNS		
		WETLAND LINE		
		MUNICIPAL BOUNDARY LINE		
		STALL COUNT		
		ADA ACCESSIBLE STALL		
		DEPRESSED CURB AND ADA RAMP		
		DIRECTION OF TRAFFIC FLOW		







- NOTES**
- SEE SHEET C-001 FOR GENERAL NOTES.
 - CONTRACTOR SHALL REFER TO OTHERS PLANS WITHIN THIS PLAN SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THE SET OF DOCUMENTS FULLY DEPICTS ALL WORK ASSOCIATED WITH THE PROJECT.
 - CONTRACTOR TO VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. INFORM ENGINEER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
 - CONTRACTOR SHALL CONTACT NC 811 A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL UTILITY COMPANIES AND COMPLY TO THE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS.

LEGEND

EXISTING	PROPOSED
TRaverse LINE, CENTER LINE	TRaverse LINE, CENTER LINE
RIGHT OF WAY LINE	RIGHT OF WAY LINE
PROPERTY LINE	PROPERTY LINE
EDGE OF PAVEMENT	EDGE OF PAVEMENT
CURB	CURB
DEPRESSED CURB	DEPRESSED CURB
SIDEWALK	SIDEWALK
FENCES	FENCES
TREELINE	TREELINE
ROADWAY SIGNS	ROADWAY SIGNS
WETLAND LINE	WETLAND LINE
MUNICIPAL BOUNDARY LINE	MUNICIPAL BOUNDARY LINE
STALL COUNT	STALL COUNT
ADA ACCESSIBLE STALL	ADA ACCESSIBLE STALL
DEPRESSED CURB AND ADA RAMP	DEPRESSED CURB AND ADA RAMP
FLOODWAY LIMITS	FLOODWAY LIMITS

SCALE : 1" = 60'
Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

SITE LUMINAIRE SCHEDULE				
Symbol	Qty	Label	Arrangement	Description
	2	A	SINGLE POLE LIGHT	D821-LED-60-30-U-5-TD-B, TYPE 5, POLE MOUNTED. MOUNTING HEIGHT: 12 FT.
	5	B	SINGLE POLE LIGHT	D824-LED-60-30-UNV-LP-T2, TYPE 2, POLE MOUNTED. MOUNTING HEIGHT: 22 FT (20 FT TALL POLE ON TOP OF 2' POLE BASE)

Colliers

Engineering & Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.
www.colliersengineering.com

Doing Business as

MASER CONSULTANTS

811

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS
VISIT: WWW.CALL811.COM

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C.# C-4746

CONDITIONAL ZONING
PLAN

FOR
KEYSTONE CUSTOM
HOMES
WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE

WEDDINGTON
UNION COUNTY
NORTH CAROLINA

Colliers

Engineering & Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.
5275 Parkway Plaza Boulevard,
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161

SCALE: AS SHOWN
PROJECT NUMBER: 25003536A
DATE: 09/25/25
DRAWN BY: NWB
CHECKED BY: CW
DRAWING NAME: C-LIGHT
SHEET TITLE: LIGHTING PLAN
SHEET NUMBER: C-700

202509201536A\Engineering\Site Plans\Lighting\Lighting.ctb

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

[illegible]

0821-L Architectural Diamond LED Luminaire

Digitize your light

Dimensions

Technical drawing of the 0821-L Architectural Diamond LED Luminaire. The drawing shows the front view of the luminaire with dimensions X₁ and X₂ indicated. X₁ is the width of the top section, and X₂ is the width of the bottom section. The dimensions are given in inches.

	Inches
X ₁	20.00
X ₂	13.00

Photometrics

Model 1200K 5000K Type 5 Optics

Photometric diagram showing the beam spread and light distribution for the 0821-L luminaire. The diagram is a circular plot with angles from 0° to 180° on the horizontal axis and 0° to 180° on the vertical axis. The beam spread is indicated by a yellow shaded area. The diagram includes a scale for beam spread in degrees and a scale for beam spread in feet (ft).

Beam Spread (ft): 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0, 13.5, 14.0, 14.5, 15.0, 15.5, 16.0, 16.5, 17.0, 17.5, 18.0, 18.5, 19.0, 19.5, 20.0, 20.5, 21.0, 21.5, 22.0, 22.5, 23.0, 23.5, 24.0, 24.5, 25.0, 25.5, 26.0, 26.5, 27.0, 27.5, 28.0, 28.5, 29.0, 29.5, 30.0, 30.5, 31.0, 31.5, 32.0, 32.5, 33.0, 33.5, 34.0, 34.5, 35.0, 35.5, 36.0, 36.5, 37.0, 37.5, 38.0, 38.5, 39.0, 39.5, 40.0, 40.5, 41.0, 41.5, 42.0, 42.5, 43.0, 43.5, 44.0, 44.5, 45.0, 45.5, 46.0, 46.5, 47.0, 47.5, 48.0, 48.5, 49.0, 49.5, 50.0, 50.5, 51.0, 51.5, 52.0, 52.5, 53.0, 53.5, 54.0, 54.5, 55.0, 55.5, 56.0, 56.5, 57.0, 57.5, 58.0, 58.5, 59.0, 59.5, 60.0, 60.5, 61.0, 61.5, 62.0, 62.5, 63.0, 63.5, 64.0, 64.5, 65.0, 65.5, 66.0, 66.5, 67.0, 67.5, 68.0, 68.5, 69.0, 69.5, 70.0, 70.5, 71.0, 71.5, 72.0, 72.5, 73.0, 73.5, 74.0, 74.5, 75.0, 75.5, 76.0, 76.5, 77.0, 77.5, 78.0, 78.5, 79.0, 79.5, 80.0, 80.5, 81.0, 81.5, 82.0, 82.5, 83.0, 83.5, 84.0, 84.5, 85.0, 85.5, 86.0, 86.5, 87.0, 87.5, 88.0, 88.5, 89.0, 89.5, 90.0, 90.5, 91.0, 91.5, 92.0, 92.5, 93.0, 93.5, 94.0, 94.5, 95.0, 95.5, 96.0, 96.5, 97.0, 97.5, 98.0, 98.5, 99.0, 99.5, 100.0, 100.5, 101.0, 101.5, 102.0, 102.5, 103.0, 103.5, 104.0, 104.5, 105.0, 105.5, 106.0, 106.5, 107.0, 107.5, 108.0, 108.5, 109.0, 109.5, 110.0, 110.5, 111.0, 111.5, 112.0, 112.5, 113.0, 113.5, 114.0, 114.5, 115.0, 115.5, 116.0, 116.5, 117.0, 117.5, 118.0, 118.5, 119.0, 119.5, 120.0, 120.5, 121.0, 121.5, 122.0, 122.5, 123.0, 123.5, 124.0, 124.5, 125.0, 125.5, 126.0, 126.5, 127.0, 127.5, 128.0, 128.5, 129.0, 129.5, 130.0, 130.5, 131.0, 131.5, 132.0, 132.5, 133.0, 133.5, 134.0, 134.5, 135.0, 135.5, 136.0, 136.5, 137.0, 137.5, 138.0, 138.5, 139.0, 139.5, 140.0, 140.5, 141.0, 141.5, 142.0, 142.5, 143.0, 143.5, 144.0, 144.5, 145.0, 145.5, 146.0, 146.5, 147.0, 147.5, 148.0, 148.5, 149.0, 149.5, 150.0, 150.5, 151.0, 151.5, 152.0, 152.5, 153.0, 153.5, 154.0, 154.5, 155.0, 155.5, 156.0, 156.5, 157.0, 157.5, 158.0, 158.5, 159.0, 159.5, 160.0, 160.5, 161.0, 161.5, 162.0, 162.5, 163.0, 163.5, 164.0, 164.5, 165.0, 165.5, 166.0, 166.5, 167.0, 167.5, 168.0, 168.5, 169.0, 169.5, 170.0, 170.5, 171.0, 171.5, 172.0, 172.5, 173.0, 173.5, 174.0, 174.5, 175.0, 175.5, 176.0, 176.5, 177.0, 177.5, 178.0, 178.5, 179.0, 179.5, 180.0, 180.5, 181.0, 181.5, 182.0, 182.5, 183.0, 183.5, 184.0, 184.5, 185.0, 185.5, 186.0, 186.5, 187.0, 187.5, 188.0, 188.5, 189.0, 189.5, 190.0, 190.5, 191.0, 191.5, 192.0, 192.5, 193.0, 193.5, 194.0, 194.5, 195.0, 195.5, 196.0, 196.5, 197.0, 197.5, 198.0, 198.5, 199.0, 199.5, 200.0, 200.5, 201.0, 201.5, 202.0, 202.5, 203.0, 203.5, 204.0, 204.5, 205.0, 205.5, 206.0, 206.5, 207.0, 207.5, 208.0, 208.5, 209.0, 209.5, 210.0, 210.5, 211.0, 211.5, 212.0, 212.5, 213.0, 213.5, 214.0, 214.5, 215.0, 215.5, 216.0, 216.5, 217.0, 217.5, 218.0, 218.5, 219.0, 219.5, 220.0, 220.5, 221.0, 221.5, 222.0, 222.5, 223.0, 223.5, 224.0, 224.5, 225.0, 225.5, 226.0, 226.5, 227.0, 227.5, 228.0, 228.5, 229.0, 229.5, 230.0, 230.5, 231.0, 231.5, 232.0, 232.5, 233.0, 233.5, 234.0, 234.5, 235.0, 235.5, 236.0, 236.5, 237.0, 237.5, 238.0, 238.5, 239.0, 239.5, 240.0, 240.5, 241.0, 241.5, 242.0, 242.5, 243.0, 243.5, 244.0, 244.5, 245.0, 245.5, 246.0, 246.5, 247.0, 247.5, 248.0, 248.5, 249.0, 249.5, 250.0, 250.5, 251.0, 251.5, 252.0, 252.5, 253.0, 253.5, 254.0, 254.5, 255.0, 255.5, 256.0, 256.5, 257.0, 257.5, 258.0, 258.5, 259.0, 259.5, 260.0, 260.5, 261.0, 261.5, 262.0, 262.5, 263.0,

B21-L Architectural Linear LED Luminaire

Digitize your light

Projected LED Maintenance

Operating Hours	0	25,000	50,000	100,000	150,000
Lumen Maintenance Factor		25°C (77°F) Ambient Outdoor Temp.			
	1	0.97	0.95	0.90	0.85
		55°C (131°F) Ambient Outdoor Temp.			
	1	0.94	0.89	0.80	0.71

Bi-Level & Daylight Harvest PIR Sensor

- Slim, low-profile sensor is designed for installation inside the bottom of a light fixture.
- Provides multi-level control based on motion and/or daylight contribution.
- 30° range vertically adjustable.
- Works with ballasts or LED drivers.
- Adjustable light levels and stand-by time.
- Constructed out of fire retardant polycarbonate material that is UV and impact resistant.

Top View - 0.8 Lens

Side View - 1.8 Lens

© Copyright Deco Lighting, Inc. 2019

2017 Mill Ave.
Glenview, IL 60045

www.decolighting.com

1-800-511-1200
1-815-506-6506

Deco Lighting® presents a spectrum of continuous product development, and as a result product specifications change frequently. We reserve the right to change product specifications without notice. Contact Deco Lighting for the latest product information.

DECO® LIGHTING

GLADETTO D824-LED Low Profile Glafetto Luminaire

Digitize your lighting

Photometrics

The figure displays a series of photometric diagrams for the D824-LED luminaire. Each diagram shows a circular beam of light with a specific beam angle and distance. The diagrams are arranged in a grid, with beam angles of 15°, 30°, 45°, 60°, 70°, 80°, and 90° across the top and bottom rows, and distances of 1000m, 1500m, and 2000m across the middle rows. Each diagram includes a central beam of light and a surrounding area of light. The beam angle is indicated by a line from the center to the edge of the beam. The distance is indicated by a line from the center to the edge of the beam. The diagrams show that as the distance increases, the beam angle also increases, resulting in a larger area of light. The diagrams also show that the beam angle is directly proportional to the distance, with a 15° beam at 1000m expanding to a 90° beam at 2000m.

Lumen Chart (5000K)

SYMMETRIC DISTRIBUTION - 5000K LUMEN OUTPUT

MODEL NUMBER	SYSTEM WATTAGE	TYPE 5°	5° B.U.G. RATINGS	40° FLOOD	50° B.U.G. FLOOD	60° FLOOD	60° B.U.G. FLOOD	70° FLOOD	70° B.U.G. FLOOD	80° FLOOD	80° B.U.G. FLOOD
D824-LED-20-50-UNV-1P	18W	2667	2 1 1	2628	2 1 1	2628	2 1 1	2650	2 1 1	2650	2 1 1
D824-LED-30-50-UNV-1P	22W	4048	2 1 1	3968	2 1 1	3968	3 1 1	3982	2 1 1	3982	2 1 1
D824-LED-40-50-UNV-1P	36W	5384	3 1 1	5235	3 1 1	5235	3 1 1	5260	3 1 1	5260	3 1 1
D824-LED-60-50-UNV-1P	56W	8586	3 1 2	8064	3 1 1	8064	3 1 1	8133	3 1 1	8133	3 1 1
D824-LED-80-50-UNV-1P	76W	10193	3 1 2	9726	4 1 1	9775	4 1 1	9812	3 1 1	9812	3 1 1
D824-LED-120-50-UNV-1P	113W	15046	3 1 2	13230	4 1 1	13283	4 1 1	13361	4 1 1	13361	4 1 1
D824-LED-150-50-UNV-1P	149W	18739	4 1 2	16704	5 1 1	16784	5 1 2	16804	4 1 2	16804	4 1 2

ASYMMETRIC DISTRIBUTION - 5000K LUMEN OUTPUT

MODEL NUMBER	SYSTEM WATTAGE	TYPE 1°	1° B.U.G. RATINGS	TYPE 3°	3° B.U.G. RATINGS	TYPE 4°	4° B.U.G. RATINGS	TYPE 4°	4° B.U.G. RATINGS	TYPE 4°	4° B.U.G. RATINGS
D824-LED-20-50-UNV-1P	18W	2662	1 1 1	2722	1 1 1	2610	1 1 1	2736	1 1 1	2736	1 1 1
D824-LED-30-50-UNV-1P	22W	4041	1 1 2	4100	1 1 1	3932	1 1 1	4121	1 1 1	4121	1 1 1
D824-LED-40-50-UNV-1P	36W	5344	1 1 2	5422	1 1 1	5200	1 1 1	5451	1 1 1	5451	1 1 1
D824-LED-60-50-UNV-1P	56W	8232	2 1 2	8362	2 1 2	8006	1 1 2	8396	2 1 1	8396	2 1 1
D824-LED-80-50-UNV-1P	76W	9732	2 1 3	10041	2 1 2	9662	2 1 2	10004	2 1 1	10004	2 1 1
D824-LED-120-50-UNV-1P	113W	13212	3 1 3	13583	3 1 3	13113	2 1 2	13586	3 1 2	13586	3 1 2
D824-LED-150-50-UNV-1P	149W	16695	3 1 4	17034	3 1 3	16695	3 1 3	17004	3 1 2	17004	3 1 2

To scale to other color temperatures, multiply 5000K values by 0.88 for 4000K, 0.96 for 3500K, or 0.93 for 3000K

© Copyright Deco Lighting, Inc. 2018

SP717 Rev. 0

GLADETTO D824-LED

10/18/2018 10:00 AM

www.glaдетto.com

10/18/2018 10:00 AM

10/18/2018 10:00 AM

10/18/2018 10:00 AM

10/18/2018 10:00 AM

Deco Lighting provides a range of different product configurations, and as a result product specifications change frequently. We reserve the right to change product specifications without notice. Please contact Deco for the latest product information.

DECO® LIGHTING

SLAETINO D824-LED Low Profile Luminaires

DLC Listed

	100-277V ONLY					100-277V, 347V, AND 480V		
	20W	30W	40W	60W	80W	120W	150W	
All Optics	X	X	X	X	X	X	X	
3000K	X	X	X	X	X	X	X	
3500K	X	X	X	X	X	X	X	
4000K	X	X	X	X	X	X	X	
5000K	X	X	X	X	X	X	X	

95 CRI Lumens Output

DELIVERED LUMEN OUTPUT

	5000K	4000K	3500K	3000K	AMBER
Standard	100%	96%	96%	99%	70%
95 CRI	78%	75%	73%	67%	--

Use above multipliers relative to the 5000K delivered lumen output of the desired optic distribution below to calculate 95 CRI light output.

Projected LED Maintenance

Operating Hours	0	25,000	50,000	75,000	100,000
Lumen Maintenance Factor	1	0.97 25°C (77°F) Ambient Outdoor Temp	0.94 55°C (131°F) Ambient Outdoor Temp	0.91	0.88
	1	0.91	0.84	0.78	0.72

Rotated Optics

© Copyright Deco Lighting, Inc. 2018
www.greenco.com
 810.917.1000
 810.917.0000

Deco Lighting produces a spectrum of conference product development, and as a result product specifications change frequently. We reserve the right to change product specifications without notice. Contact Deco for the latest product information.

DECO[®] LIGHTING



GLADETINO

D824-L2D

Low Profile Gladiatore Luminaire

Client: _____

Project Name: _____

Order #: _____

Type: _____

Qty: _____

Performance Data

CRI
70+, 95 Optional

CCT
3000K, 3500K, 4000K,
5000K, 6000K

Projected Lifetime
286,000 Hours (6.70)
181,000 Hours (6.80)

Dimming
0-10V Dimming Standard,
0% to 100%.

Operating Temperature
-40°C to +55°C Ambient

IP Rating
IP65

Warranty
5 year Standard
10 year Optional



ETL	DSKY	DLC	10 Yr
Listed	Dimmable	Listed	Warranty

Description

Slide controls, adjustable, the Gladiatore luminaire provides an aesthetically pleasing addition to any roadway or parking lot by its smooth, unfixed curves and highly functional optics that provide maximum output while ensuring beam focus. The combination of form and function binds together to make Gladiatore the premier outdoor lighting fixture. DSKY Sky compliant when ordered at 3000K color temperature.

Features:

- Die cast aluminum housing and foot frame, integral heat sinking and driver compartment
- Powder coat finish over a chromatic corrosion coating
- 8 mounting brackets available, including the new adjustable wall mount
- Weight: 15.6LBS, EPC, 0.60Kw
- Available with related optics for horizontal throw (View g)
- 0-10V Dimming Standard on all models
- DLC Listed for Utility Rebates (Please see DLC notes on page 6)
- ETL Listed for Wet Locations
- DSKY Sky compliant when ordered at 3000K color temperature
- Photocell receptacle included standard and shoring cap

D824-L2D

60"

30"

UNV

LP

PM

BL

Ordering Information			
1. FIXTURE SERIES	2. VOLTAGE	3. MOUNTING	4. OPTIONS
D824-L2D	GLAD	120-277V	PC
GLAD	GLAD	347V	MS
GLAD	GLAD	480V	PM
5. WATTAGE / LUMENS	6. BODY TYPE	7. SKY TYPE	8. SKY TYPE
20	20	20	20
30	30	30	30
40	40	40	40
50	50	50	50
60	60	60	60
70	70	70	70
80	80	80	80
90	90	90	90
100	100	100	100
120	120	120	120
150	150	150	150
200	200	200	200
300	300	300	300
400	400	400	400
500	500	500	500
600	600	600	600
700	700	700	700
800	800	800	800
900	900	900	900
1000	1000	1000	1000
1200	1200	1200	1200
1500	1500	1500	1500
2000	2000	2000	2000
3000	3000	3000	3000
4000	4000	4000	4000
5000	5000	5000	5000
6000	6000	6000	6000
7000	7000	7000	7000
8000	8000	8000	8000
9000	9000	9000	9000
10000	10000	10000	10000
12000	12000	12000	12000
15000	15000	15000	15000
20000	20000	20000	20000
30000	30000	30000	30000
40000	40000	40000	40000
50000	50000	50000	50000
60000	60000	60000	60000
70000	70000	70000	70000
80000	80000	80000	80000
90000	90000	90000	90000
100000	100000	100000	100000
120000	120000	120000	120000
150000	150000	150000	150000
200000	200000	200000	200000
300000	300000	300000	300000
400000	400000	400000	400000
500000	500000	500000	500000
600000	600000	600000	600000
700000	700000	700000	700000
800000	800000	800000	800000
900000	900000	900000	900000
1000000	1000000	1000000	

GLADINETO D824-Led Low Profile Gasket Luminaire

Digitize your future

- *Standard for fixture
- *Contact factory for custom finish
- (Delivered Lumen (DXXX Type II distribution) - See full lumen chart on Page 5 for other optics and CCT)
- *Standard Color Temperature
- *IPXX meeting ingress level standard; Contact factory for higher mounting
- *ABDY optic only available on models BXXH and higher.
- *PXX meeting ingress level standard; Contact factory for higher mounting
- *Must be ordered in conjunction with the Pole Mount Bracket
- (Full LED Lightings View C.L.C Motor on Page 6 for models currently listed)
- *Must operate not available in conjunction with TR or R
- *If LED or photonic not selected then starting up is required
- (6 year standard / unless specified)

Dimensions

The technical drawing shows two views of the luminaire. The top view is a perspective drawing showing the front face with a grid of light sources. Dimension lines indicate X₁ as the width and X₂ as the height. The bottom view is a side profile drawing showing the depth of the unit. Dimension lines indicate X₃ as the depth. A small circular detail is shown at the bottom left corner of the side view.

Bi-Level & Daylight Harvest PIR Sensor

- Slim, low-profile sensor is designed for installation below the bottom of a light fixture.
- Provides multi-level control based on motion and/or daylight contribution.
- 30° range sensibility detection.
- Works with ballasts in LED systems.
- Adjustable light levels and standby times.
- Constructed out of the most resistant polycarbonate material that is UV and impact resistant.

Photo-cell

*Two photocells which are either ordered without motor sensor. When paired with a photo sensor, the FSP-201 sensor (FSP-201 for 34Vt or 480V) is used for both motion sensing and photo sensing capabilities.

The image shows two components. On the left is a rectangular white PCB (Printed Circuit Board) with various electronic components and a label that reads "PIR". On the right is a cylindrical black component, likely the photo-cell, with a label that reads "PHOTOCELL".

© Copyright Gladinet Lighting, Inc. 2018

Gladinet Lighting
Company (USA) LLC

www.gladinet.com
info@gladinet.com
1-800-311-0110
Customer Care USA

Once a lighting practice progresses of continuous product development, we as a world patent specification design property, we reserve the right to change product specifications without notice. Contact Gladinet for the latest product information.

Lights with Mounts:

Pole Mount (PM)	19.3"
Wall Bracket (WB)	15.81"
Large Yoke (LYM)	19"
Yoke (YM)	20.81"
Slee-Fixer (SF)	20.49"
Adjustable Wall Mount (AWM)	19.78"
Pole Mount Arm (PMA)	19.1"

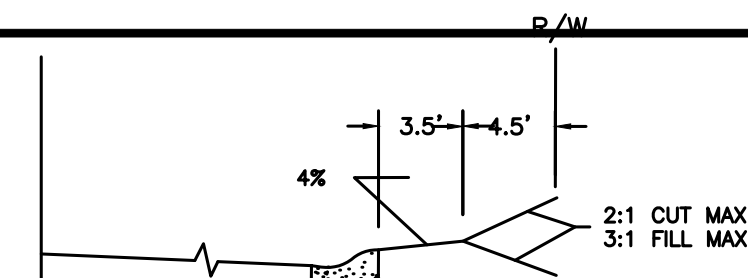
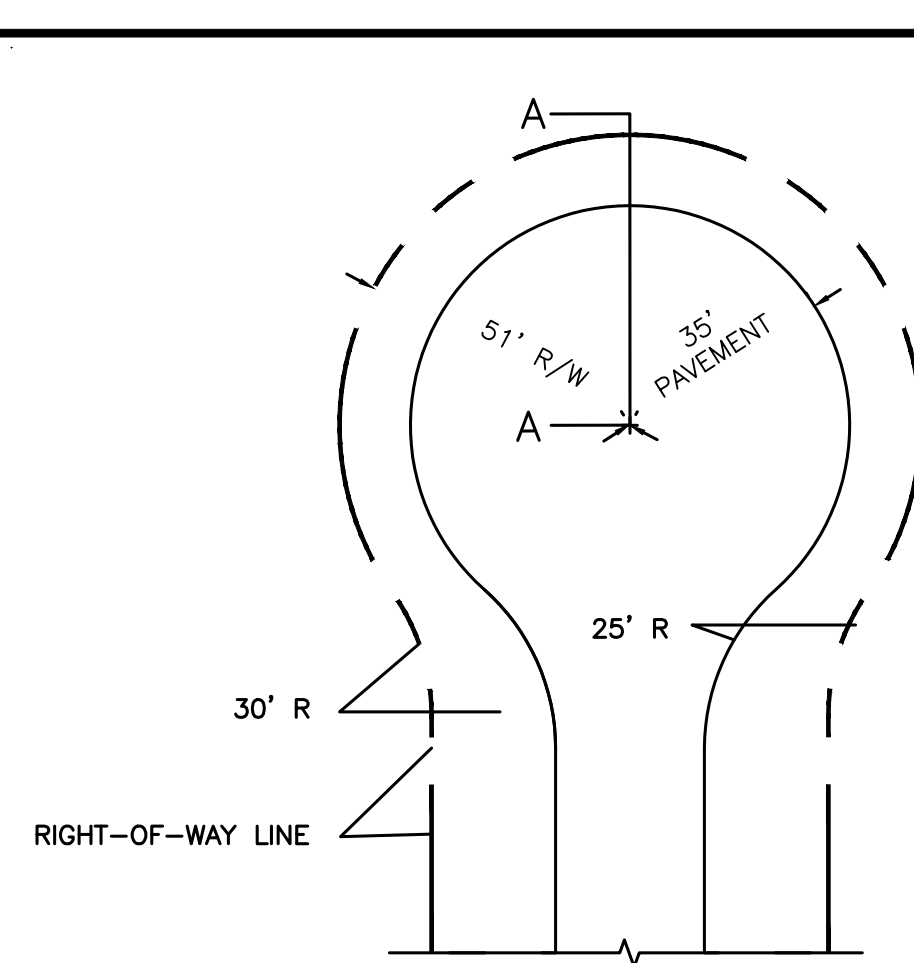
Top View - L3 Lens

A circular diagram representing the beam spread from a top-down perspective. Concentric circles represent distances of 1m and 2m. Radial lines indicate beam spread angles of 15°, 30°, 45°, 60°, 75°, and 90°. The diagram shows how the beam area increases with distance and angle.

Side View - L3 Lens

A cross-sectional diagram showing the beam spread from a side-on perspective. It illustrates the vertical beam spread angles of 15°, 30°, 45°, 60°, 75°, and 90°. Horizontal lines indicate distances of 1m and 2m. The diagram shows the physical path of the light beam through the lens system.

 Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C. www.colliersengineering.com Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.																					
Doing Business as					 MASER CONSULTING																
 Call before you dig! PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM																					
DESCRIPTION DRAWN BY DATE REV																					
Casey R. Whiteman NORTH CAROLINA PROFESSIONAL ENGINEER LICENSE NUMBER: 059701 COLLIERS ENGINEERING & DESIGN CT, P.C. N.C. #. C-4746																					
CONDITIONAL ZONING PLAN FOR KEYSTONE CUSTOM HOMES WEDDINGTON PIN 07150015 3009 FOREST LAWN DRIVE WEDDINGTON UNION COUNTY NORTH CAROLINA																					
 Engineering & Design, <i>Architecture, Landscape Architecture, Surveying, CT P.C.</i> CHARLOTTE 5275 Parkway Plaza Boulevard, Suite 100 Charlotte, NC 28217 Phone: 980.245.3161 Colliers Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C., are Equal Opportunity/Affirmative Action Employers.																					
<table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 25%;">SCALE:</td><td style="width: 25%;">DATE:</td><td style="width: 25%;">DRAWN BY:</td><td style="width: 25%;">CHECKED BY:</td></tr><tr><td>AS SHOWN</td><td>09/25/25</td><td>NWB</td><td>CW</td></tr><tr><td colspan="2">PROJECT NUMBER: 25003536A</td><td colspan="2">DRAWING NAME: C-LIGHT</td></tr></table>										SCALE:	DATE:	DRAWN BY:	CHECKED BY:	AS SHOWN	09/25/25	NWB	CW	PROJECT NUMBER: 25003536A		DRAWING NAME: C-LIGHT	
SCALE:	DATE:	DRAWN BY:	CHECKED BY:																		
AS SHOWN	09/25/25	NWB	CW																		
PROJECT NUMBER: 25003536A		DRAWING NAME: C-LIGHT																			
SHEET TITLE: LIGHTING DETAILS																					
SHEET NUMBER: C-701																					



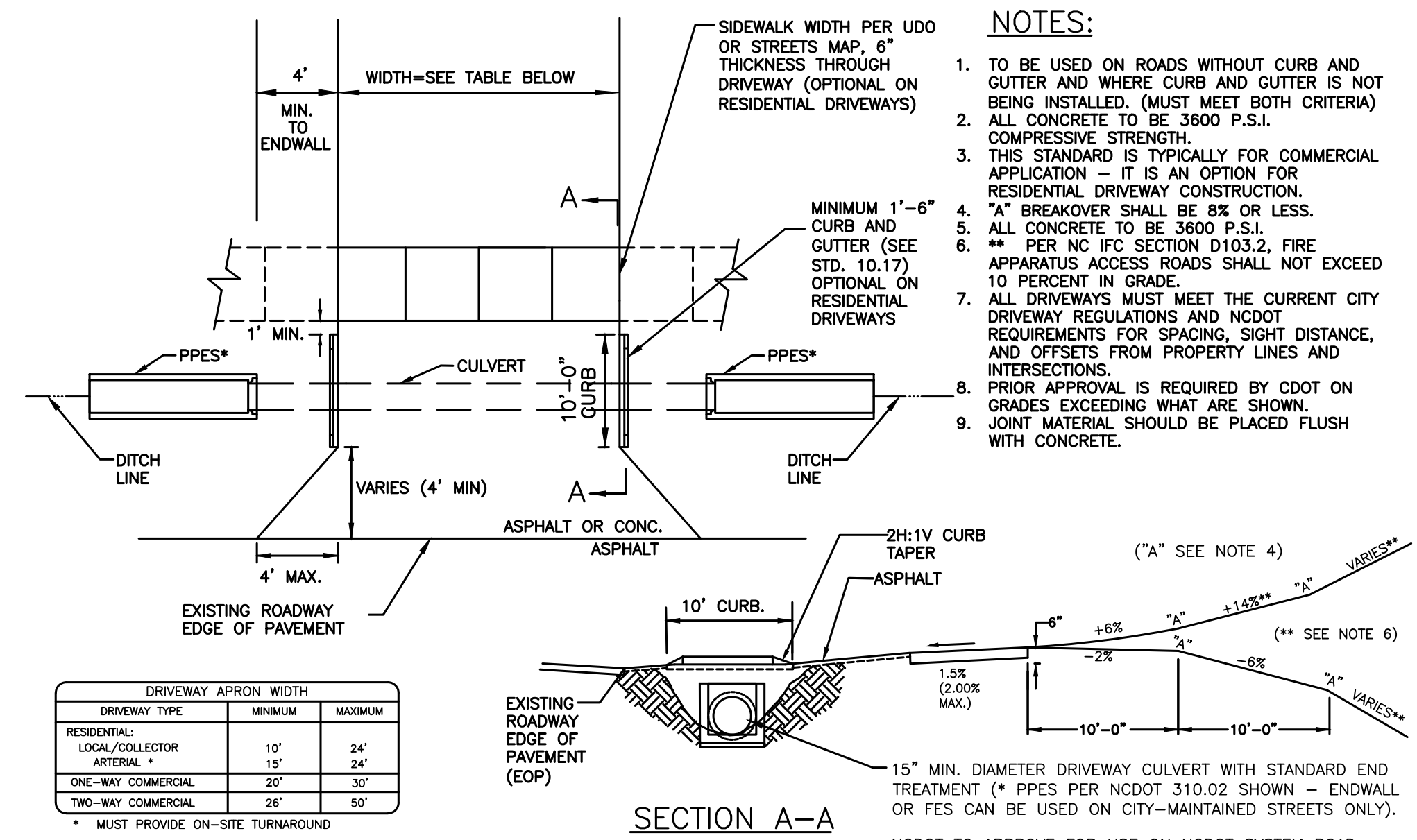
SECTION A-A

APPLICABLE WHEN NO SIDEWALK PRESENT.
PLEASE NOTE: DRIVEWAY STANDARD
MAX. SLOPES AND BREAKOVERS APPLY

NOTES:

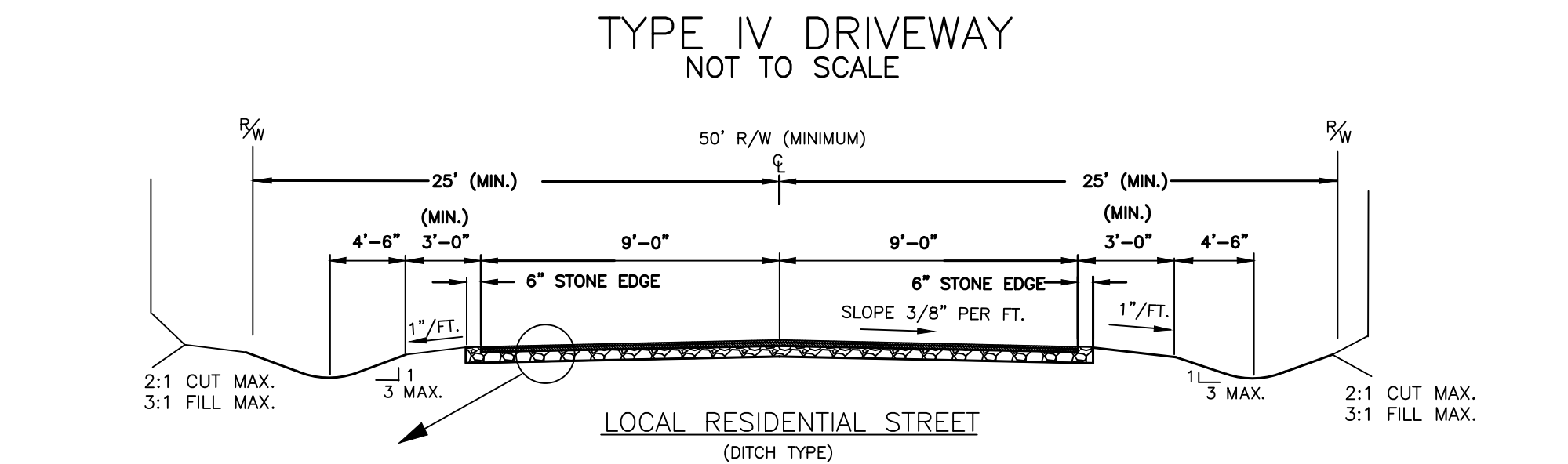
1. ALTERNATIVE CUL-DE-SAC DESIGNS, INCLUDING ISLANDS SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.
2. THE CROWN FOR PAVEMENT SHALL BE 1/4" PER FT FROM THE CENTER OF THE CUL-DE-SAC.
3. REFER TO NCDOT STANDARDS FOR DITCH TYPE STREETS IN ETJ.
4. SIDEWALK MAY BE REQUIRED TO EXTEND AROUND CUL-DE-SAC BULB WHERE PARKS OR SCHOOLS HAVE FRONTAGE TO THE END OF THE CUL-DE-SAC.

NOTE: THIS DETAIL IS NOT FOR USE IN ETJ,
OR ON NCDOT-MAINTAINED STREETS. REFER TO
NCDOT SUBDIVISION ROADS MINIMUM
CONSTRUCTION STANDARDS MANUAL.



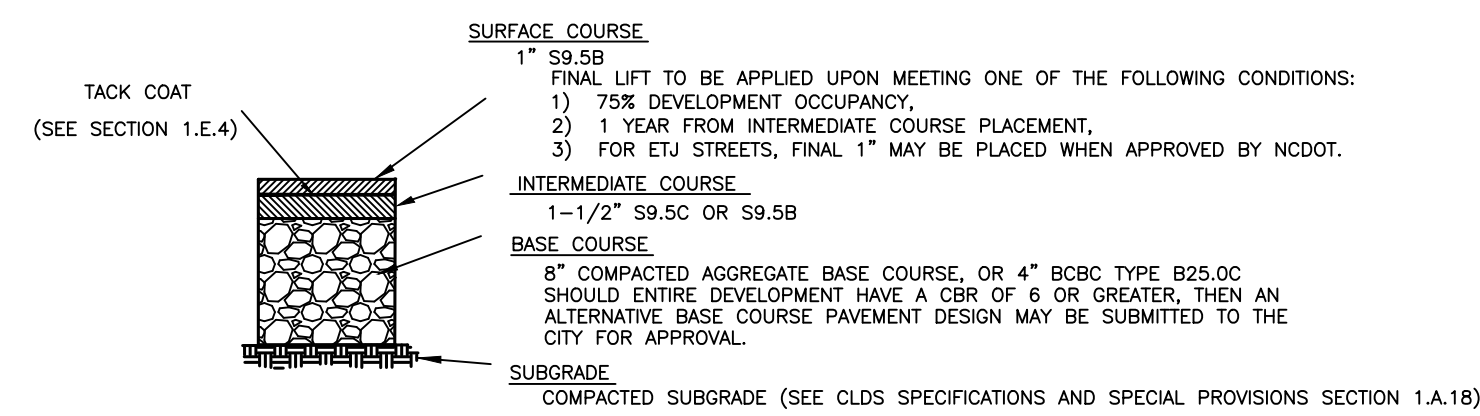
SECTION A-A

NCDOT TO APPROVE FOR USE ON NCDOT SYSTEM ROAD

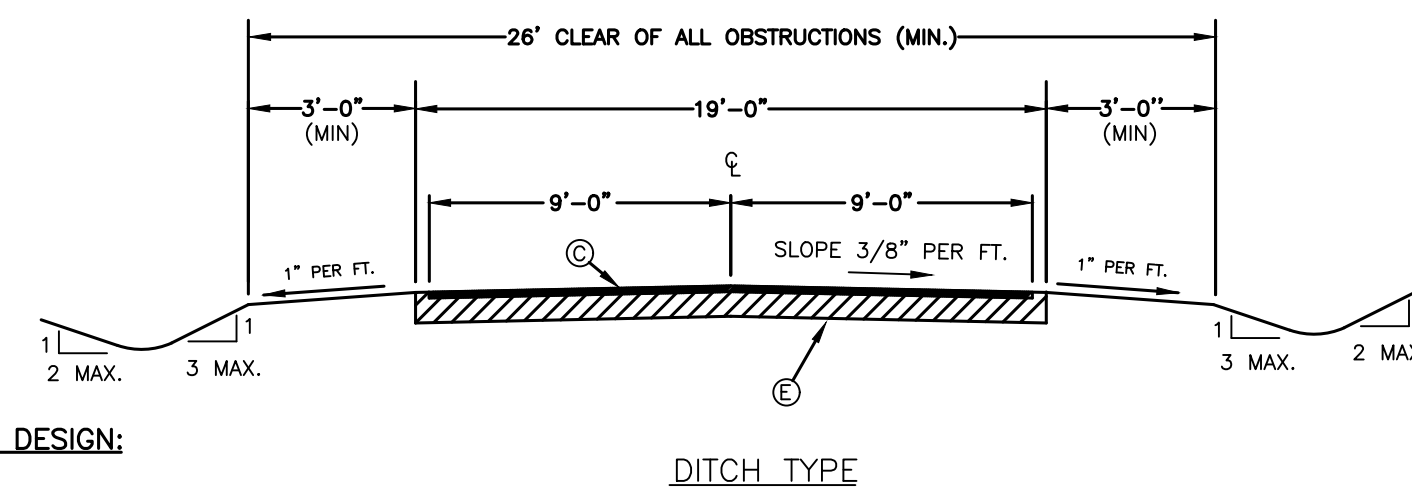
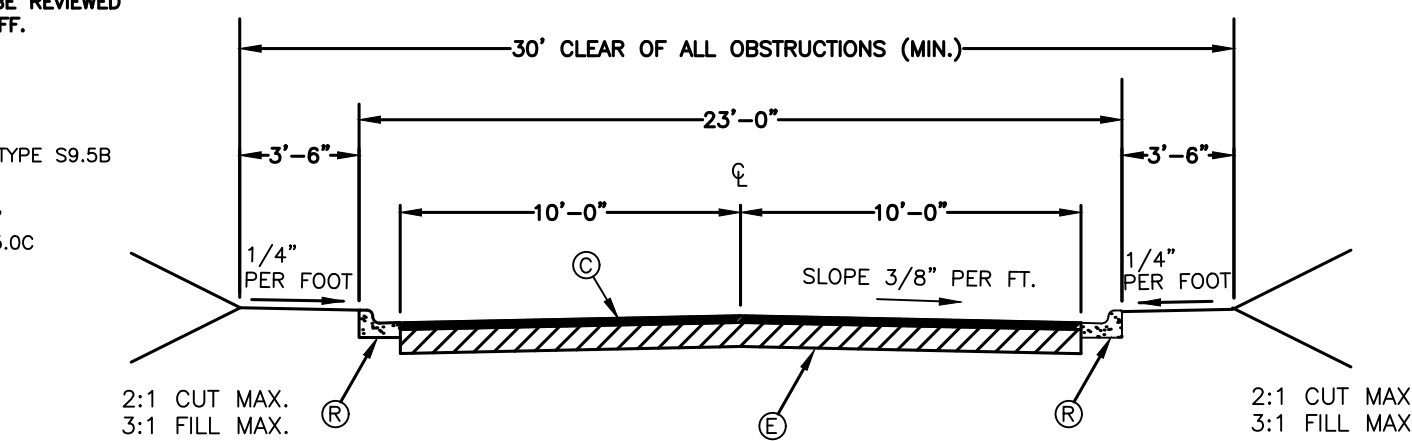


NOTES:

1. APPROVAL BY THE CITY IS
REQUIRED PRIOR TO USING
DITCH TYPE SECTION.

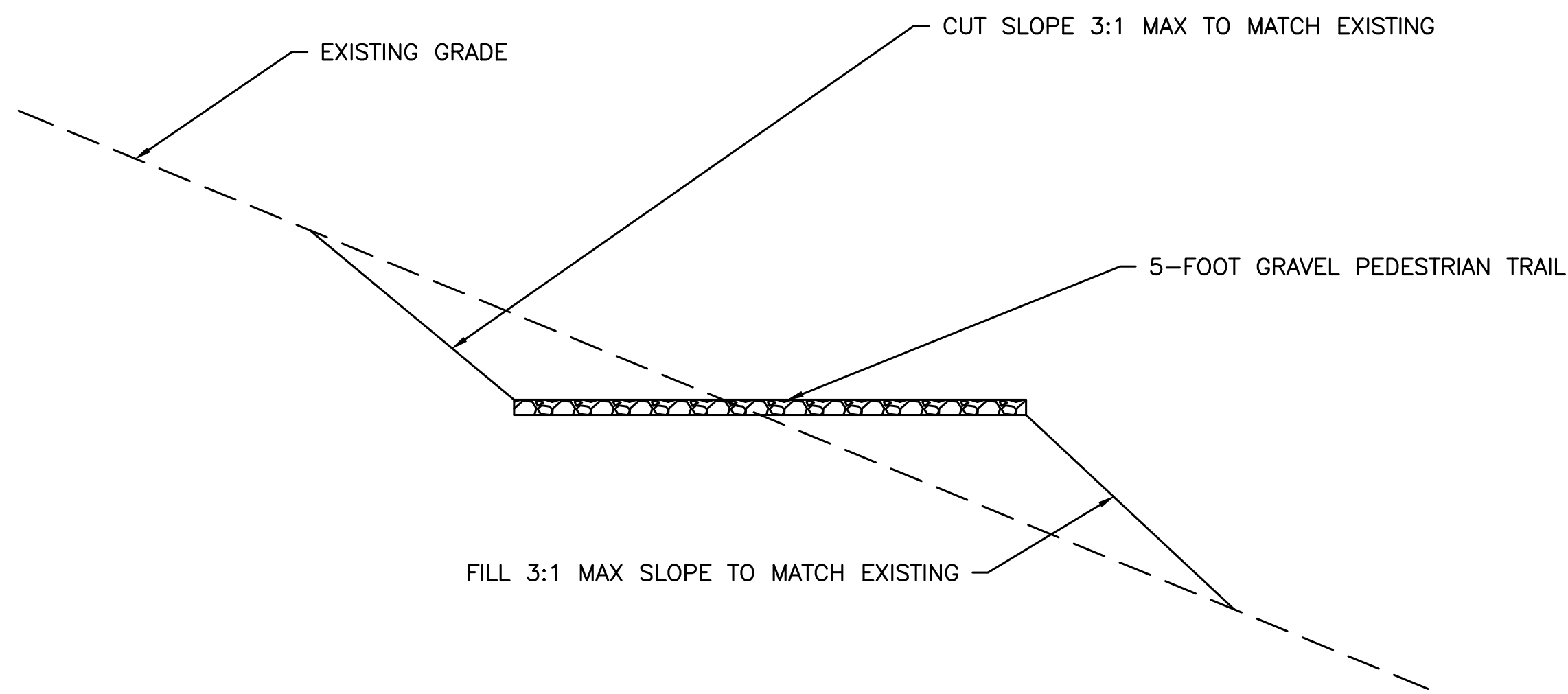


TYPICAL PAVEMENT SECTION

DITCH TYPE

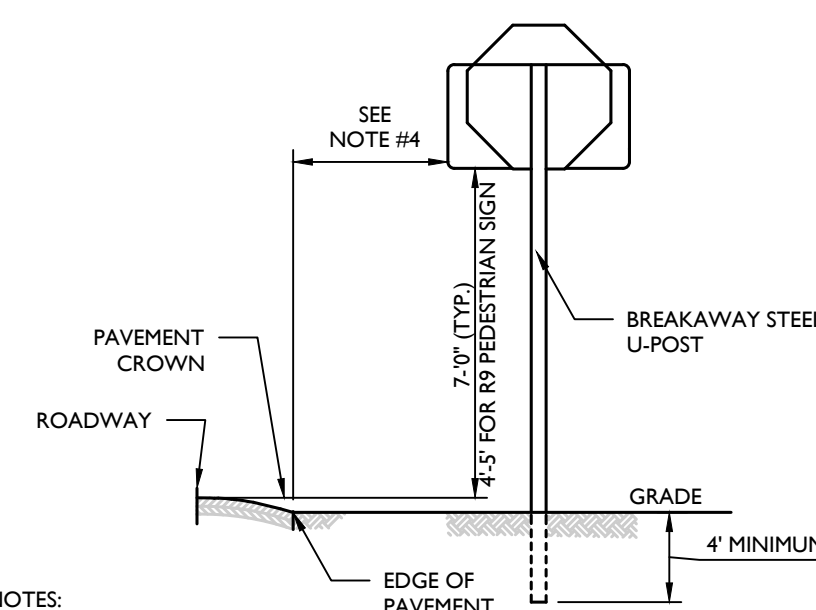
CURB AND GUTTER

PRIVATE STREET TYPICAL SECTIONS
NOT TO SCALE



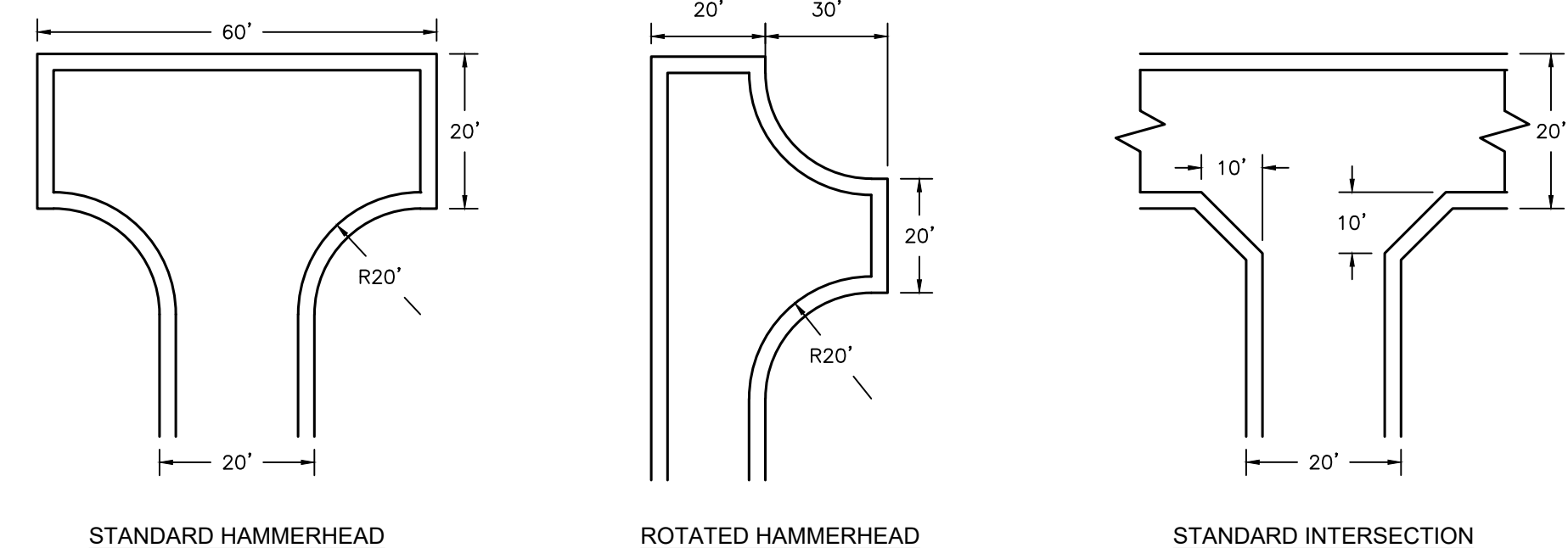
CUT SLOPES TO BE AVOIDED NEAR EXISTING HERITAGE TREES

5-FOOT PEDESTRIAN TRAIL DETAIL
NOT TO SCALE



SINGLE POST SIGN
MOUNTING DETAIL

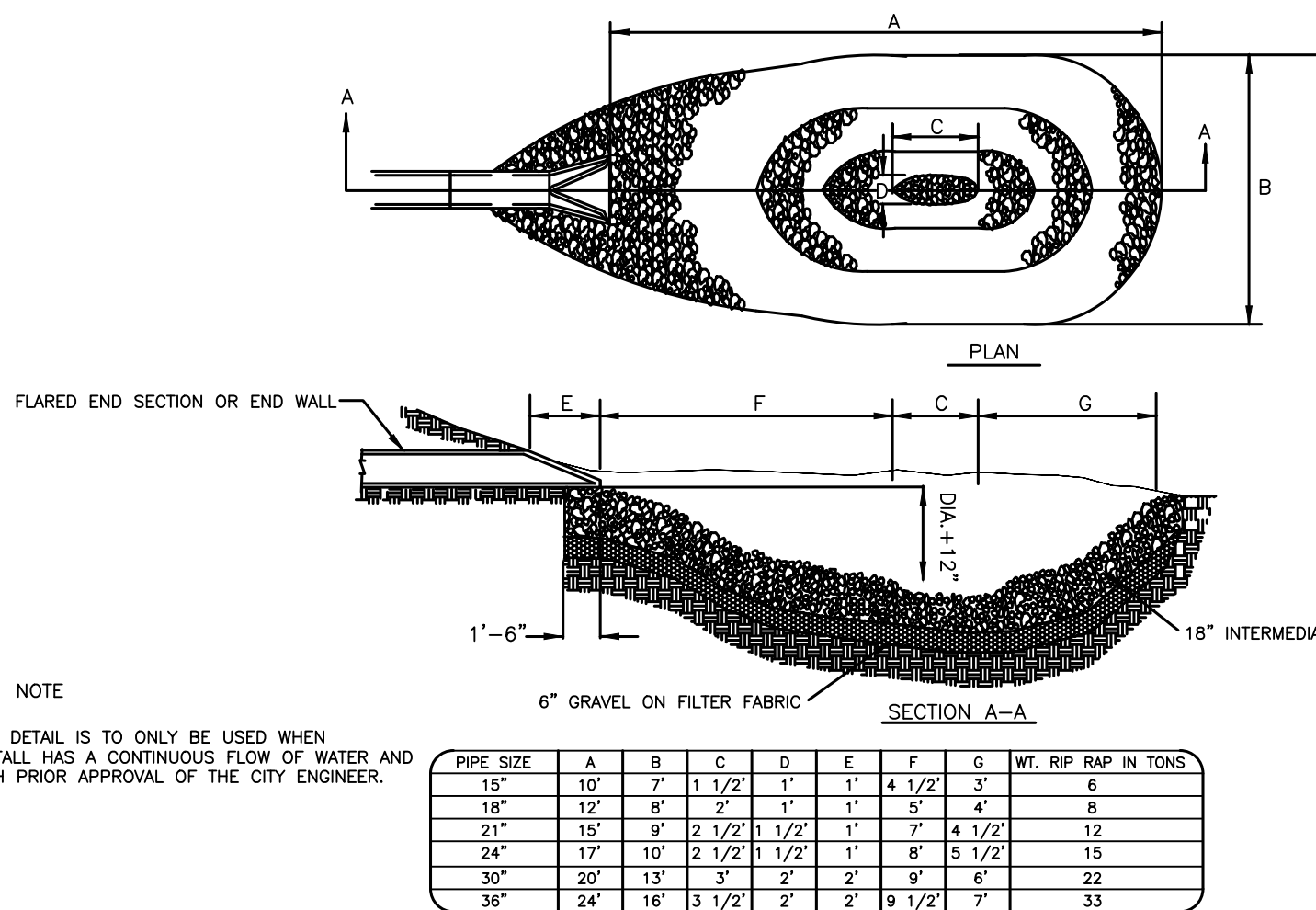
NOT TO SCALE



RESIDENTIAL ALLEY HAMMERHEADS AND INTERSECTIONS

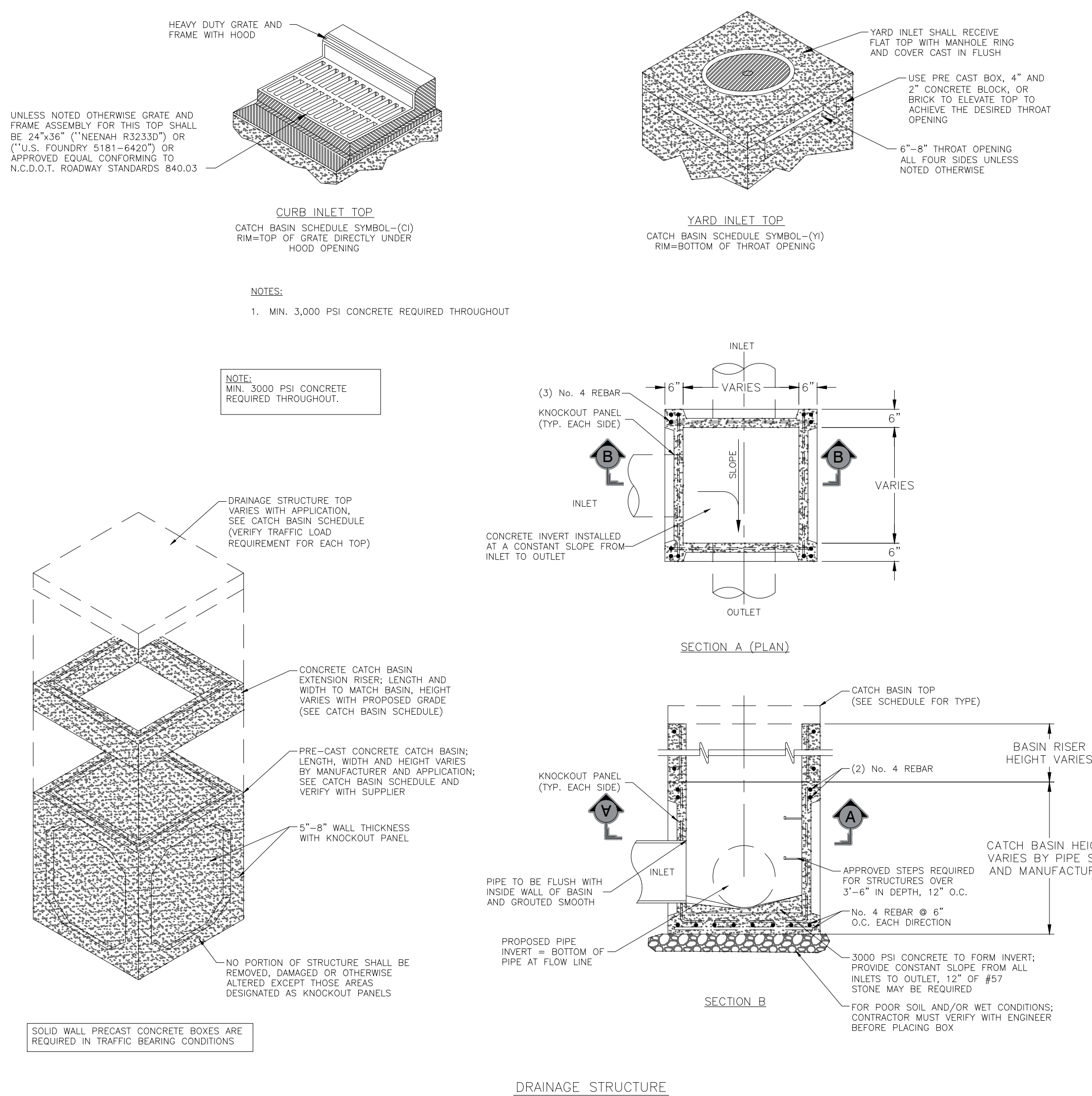
- | NOTES: | |
|--------|---|
| 1. | SEE DETAILS 11.19A-B FOR ALLEY DESIGN STANDARDS. |
| 2. | HAMMERHEAD DETAILS APPLY ONLY FOR TWO-WAY ALLEYS. ONE-WAY ALLEYS MUST CONNECT TO A PUBLIC STREET OR ANOTHER ALLEY. |
| 3. | FOR INTERSECTIONS WITH A LEAST ONE (1) ONE-WAY ALLEY, THE BACK-OF-CURB TO BACK-OF-CURB WIDTH CAN BE 16 FEET ON THE APPROPRIATE LEG(S) INSTEAD OF THE 20 FEET SHOWN. |
| 4. | OTHER INTERSECTION DESIGNS WILL BE APPROVED BY CDOT ON A CASE-BY-CASE BASIS. |
| 5. | THIS DETAIL DOES NOT ACCOMMODATE COMMERCIAL VEHICLES OR CHARLOTTE FIRE DEPARTMENT DESIGN FIRE TRUCK. |
| 6. | ADEQUATE STOPPING SIGHT DISTANCE (SSD) SHALL BE PROVIDED AT EACH INTERSECTION. MINIMUM SSD SHALL BE 50 FEET ASSUMING AN OPERATIONAL SPEED OF 10 MPH. |

Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C. www.colliersengineering.com Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contacted or to whom it is certified. This drawing may not be copied, recast, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.									
Doing Business as					MASER CONSULTING				
Dig before you dig. Call before you dig. PROTECT YOURSELF ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM									
Casey R. Whiteman NORTH CAROLINA PROFESSIONAL ENGINEER LICENSE NUMBER: 059701 COLLIERS ENGINEERING & DESIGN C.T., P.C. N.C. #: C-4946									
CONDITIONAL ZONING PLAN FOR KEYSTONE CUSTOM HOMES WEDDINGTON PIN 07150015 3009 FOREST LAWN DRIVE WEDDINGTON UNION COUNTY NORTH CAROLINA									
Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C. CHARLOTTE 5275 Parkway Plaza Boulevard, Suite 100 Charlotte, NC 28217 Phone: 980.245.3161 COLLIERS ENGINEERING & DESIGN, ARCHITECTURE, LANDSCAPE ARCHITECTURE, SURVEYING, C.T.P.C. DOING BUSINESS AS MASER CONSULTING SCALE: AS SHOWN DATE: 09/25/25 DRAWN BY: NWB CHECKED BY: CW PROJECT NUMBER: 25003536A DRAWING NAME: C-DTLS									
SHEET TITLE: SITE DETAILS									
SHEET NUMBER: C-800									

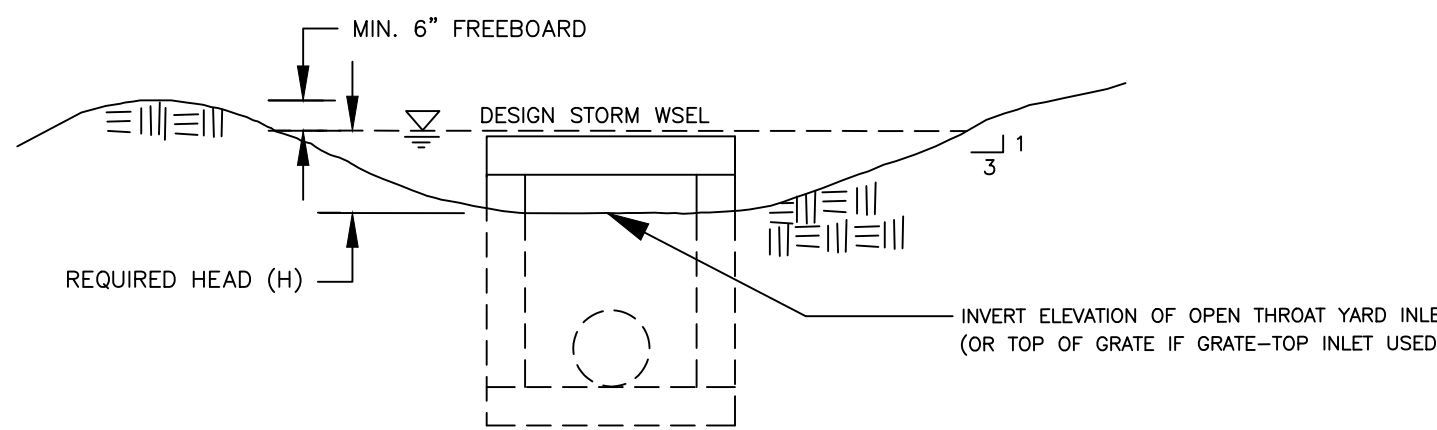


NOT TO SCALE

RIP RAP PLUNGE POOL



DRAINAGE STRUCTURE



RIPRAP APRON AT PIPE OUTFALLS OTHER THAN AT SWIM

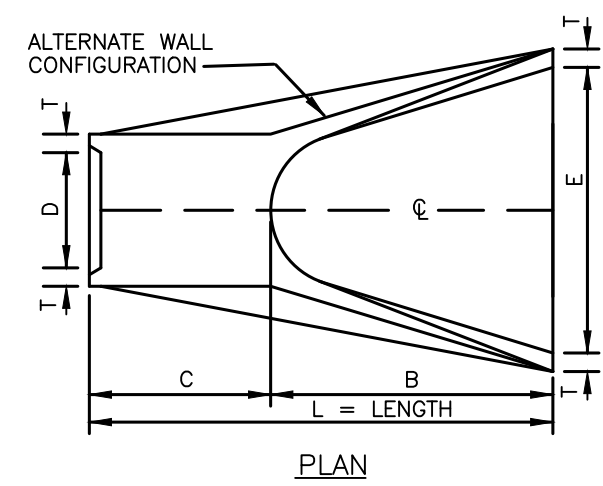
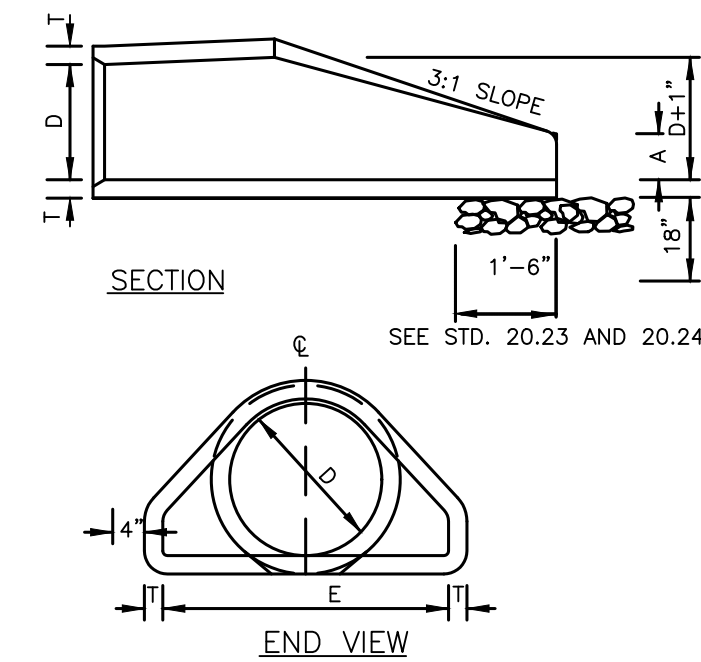


TABLE OF DIMENSIONS						
D	T	A	B	C	E	L
12"	2'-1/4"	4"	2'-0"	4'-1"	2'-0"	6'-1"
15"	2'-1/4"	6"	2'-3"	3'-10"	2'-0"	6'-1"
18"	2'-1/2"	9"	2'-3"	3'-10"	3'-0"	6'-1"
24"	3'	10"	3'-8"	2'-6"	4'-0"	6'-2"
30"	3'-1/2"	1'-0"	4'-8"	1'-8"	5'-0"	6'-2"
36"	4'	1'-3"	5'-3"	2'-11"	6'-0"	8'-2"
42"	4'-1/2"	1'-9"	5'-3"	2'-11"	6'-6"	8'-2"
48"	5'	2'-0"	6'-0"	2'-2"	7'-0"	8'-2"
54"	5'-1/2"	2'-3"	5'-6"	2'-10"	7'-6"	8'-4"
60"	6'	2'-6"	5'-0"	3'-3"	8'-0"	8'-3"
66"	6'-1/2"	3'-0"	6'-0"	2'-3"	8'-6"	8'-3"
72"	7'	3'-0"	6'-6"	1'-9"	9'-0"	8'-3"

GENERAL NOTES:

- SEE FORMER NCDOT STANDARD 310.01 FOR DETAILS.
- REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO M170, TABLE 2, WALL B.
- ALL CONCRETE TO BE 3600 P.S.I COMPRESSIVE STRENGTH.
- PROVIDE TONGUE OR SPIGOT JOINT AT INLET END SECTION.
- PROVIDE GROOVE OR BELL JOINT AT OUTLET END SECTION.
- THE DIMENSIONS FOR END SECTIONS SHALL SUBSTANTIALLY AGREE WITH THE TABLE. MINOR VARIATIONS WILL BE PERMITTED BASED ON THE MANUFACTURER'S STANDARD FORMS AND TEMPLATES.
- NOT TO BE USED IN NCDOT MAINTAINED RIGHT OF WAY.



FLARED END SECTION 12" THRU 72" PIPE NOT TO SCALE

Colliers

Engineering & Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.
www.colliersengineering.com

Copyright © 2025, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is verified. This drawing may not be copied, reprinted, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as

811

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE.

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

Casey R. Whiteman
NORTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NUMBER: 059701
COLLIERS ENGINEERING & DESIGN CT, P.C.
N.C.# C-4746

CONDITIONAL ZONING PLAN
FOR
KEYSTONE CUSTOM HOMES WEDDINGTON

PIN 07150015
3009 FOREST LAWN DRIVE
WEDDINGTON UNION COUNTY NORTH CAROLINA

Colliers

Engineering & Design,
Architecture, Landscape
Architecture, Surveying, CT P.C.

5275 Parkway Plaza Boulevard,
Suite 100
Charlotte, NC 28217
Phone: 980.245.3161
COLLIERS ENGINEERING & DESIGN
ARCHITECTURE, LANDSCAPE ARCHITECTURE
SURVEYING, CT P.C. DOING BUSINESS AS MASER CONSULTING.

SCALE: AS SHOWN

DATE: 09/25/25

DRAWN BY: NWB

CHECKED BY: CW

PROJECT NUMBER: 25003536A

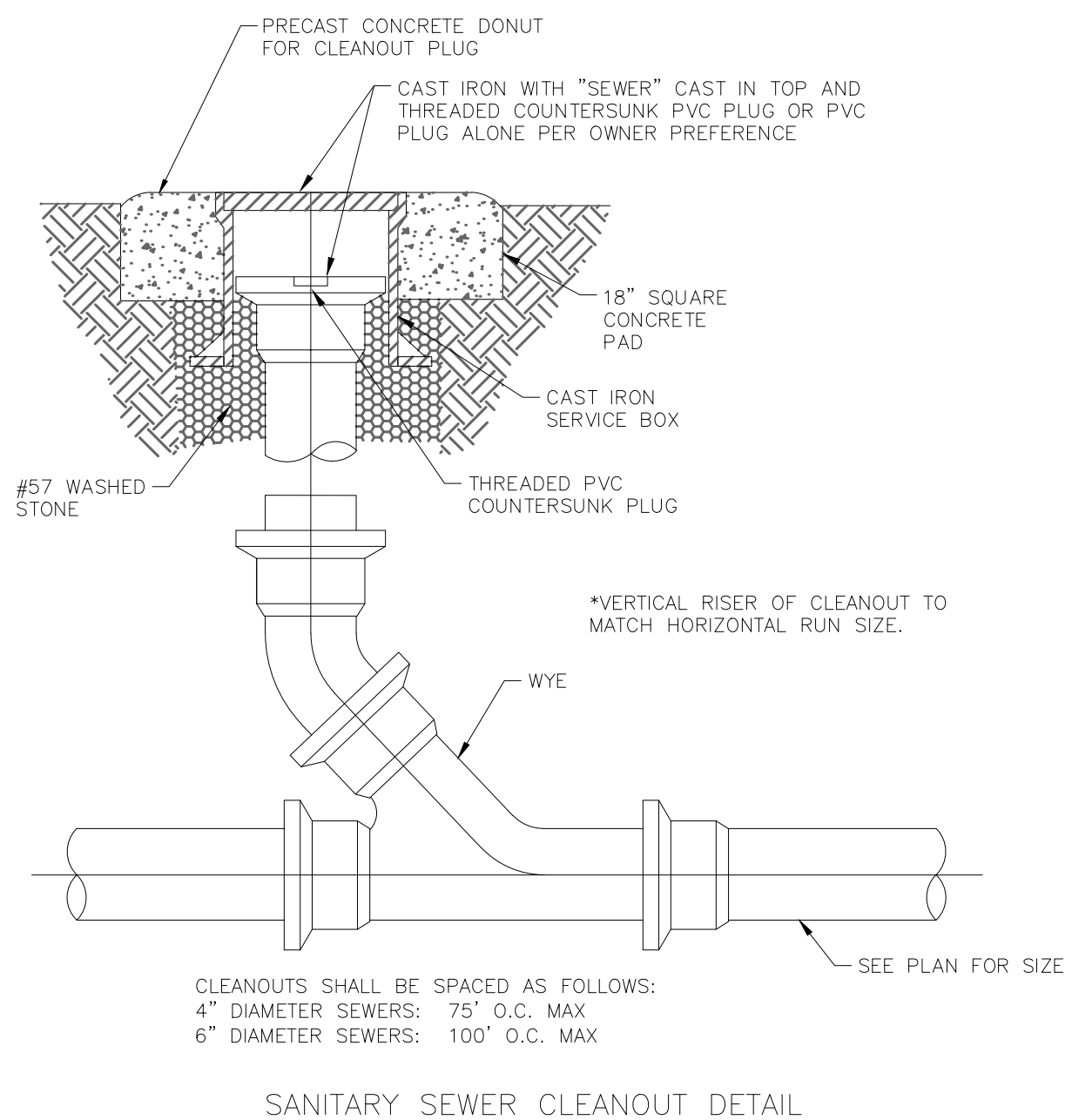
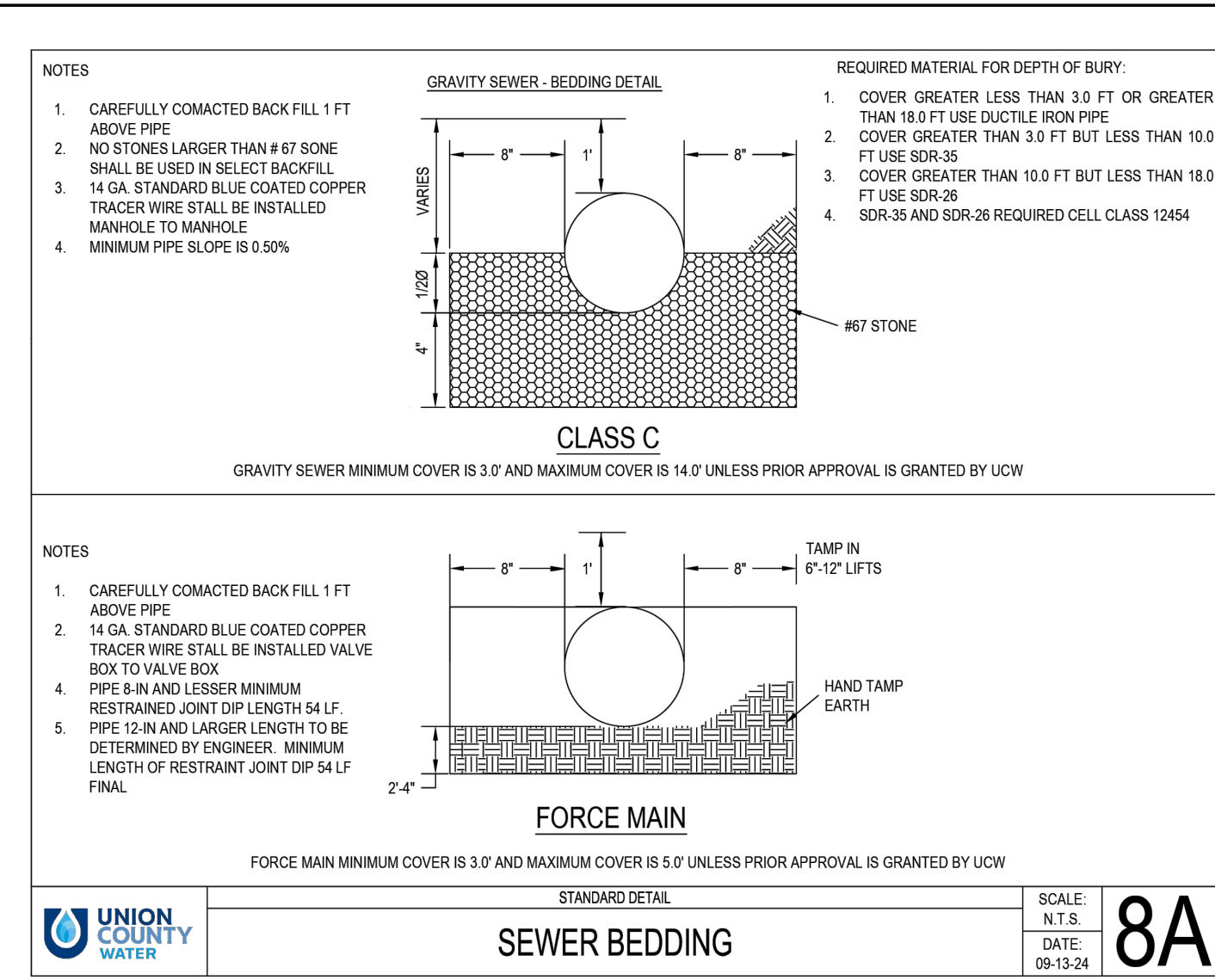
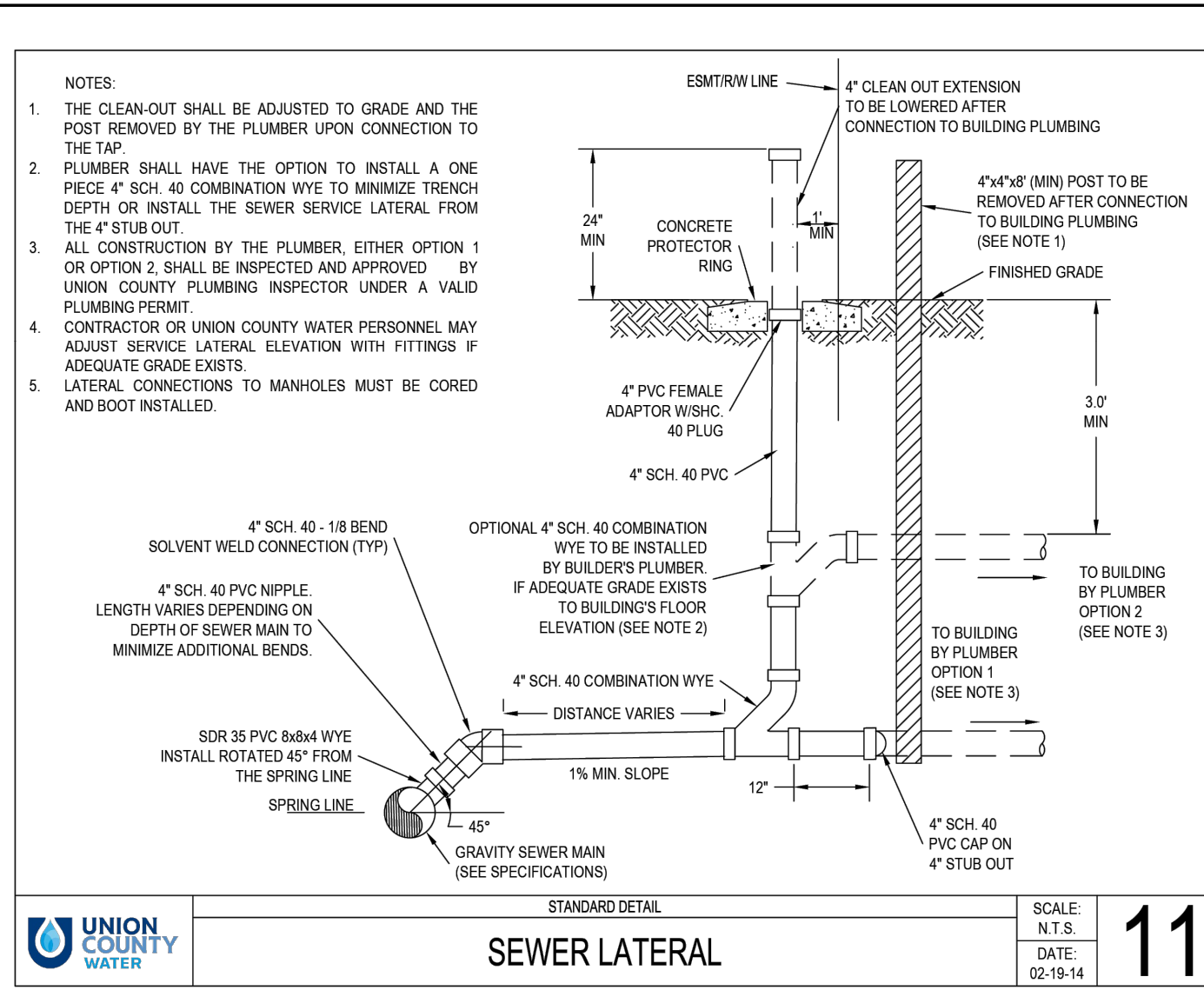
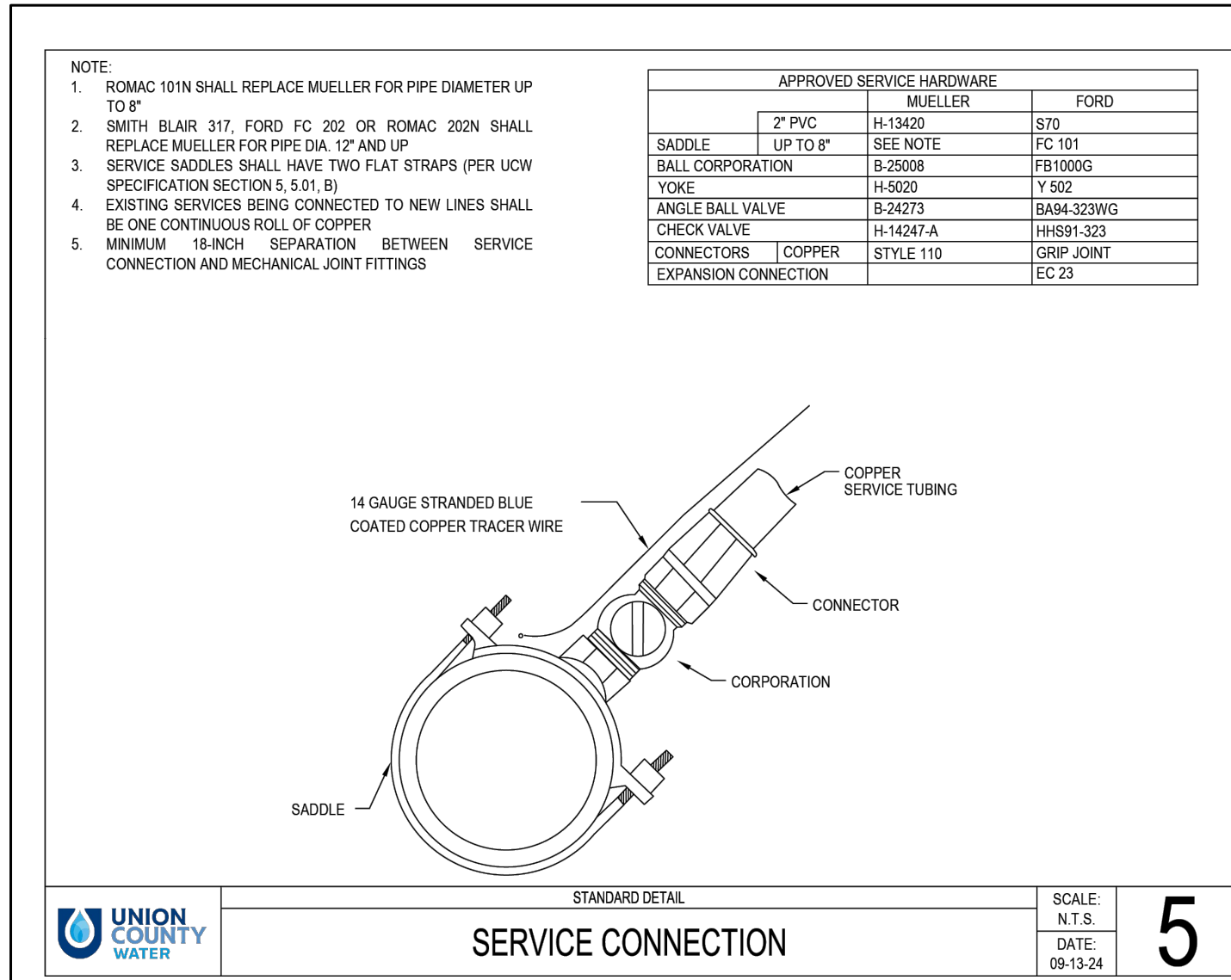
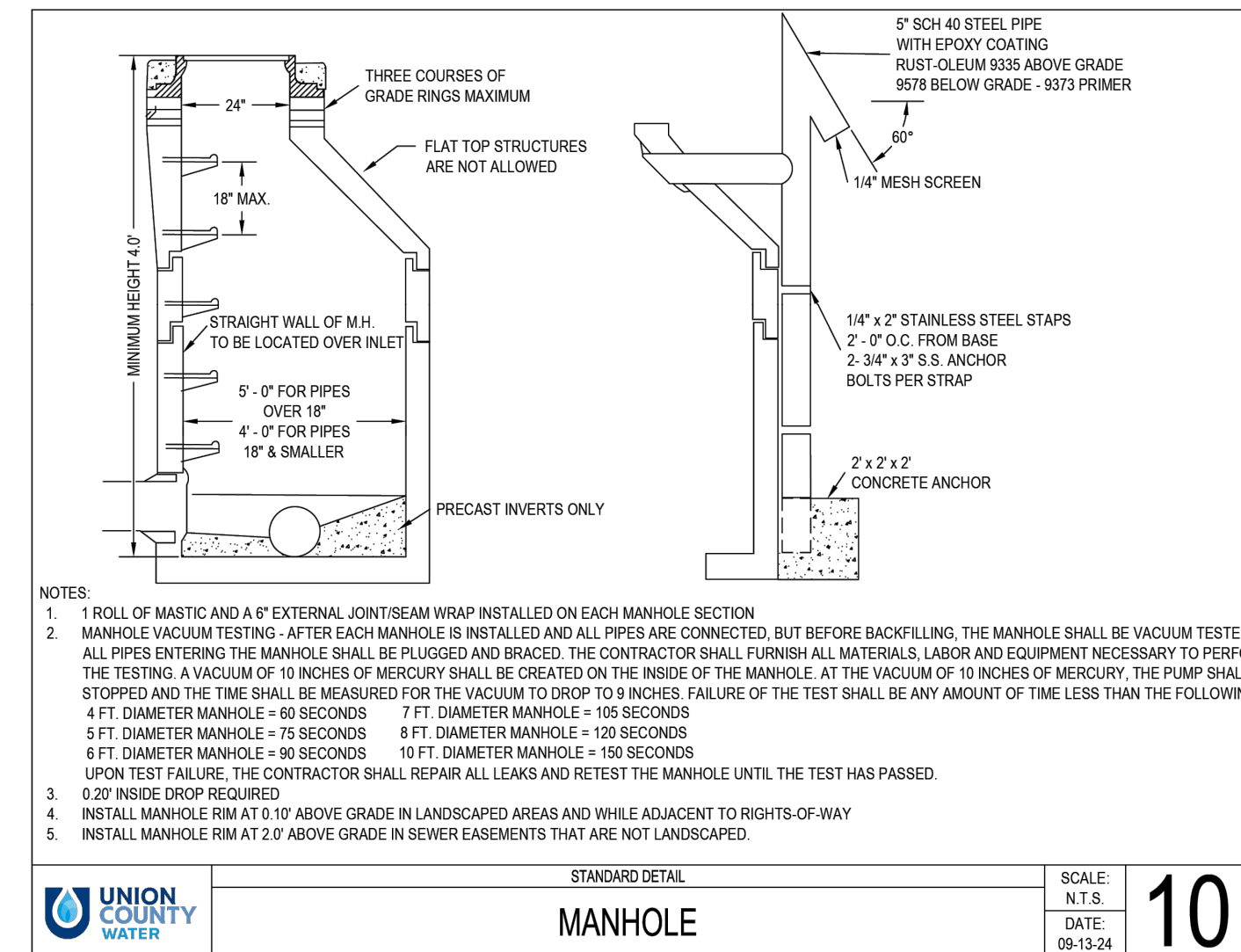
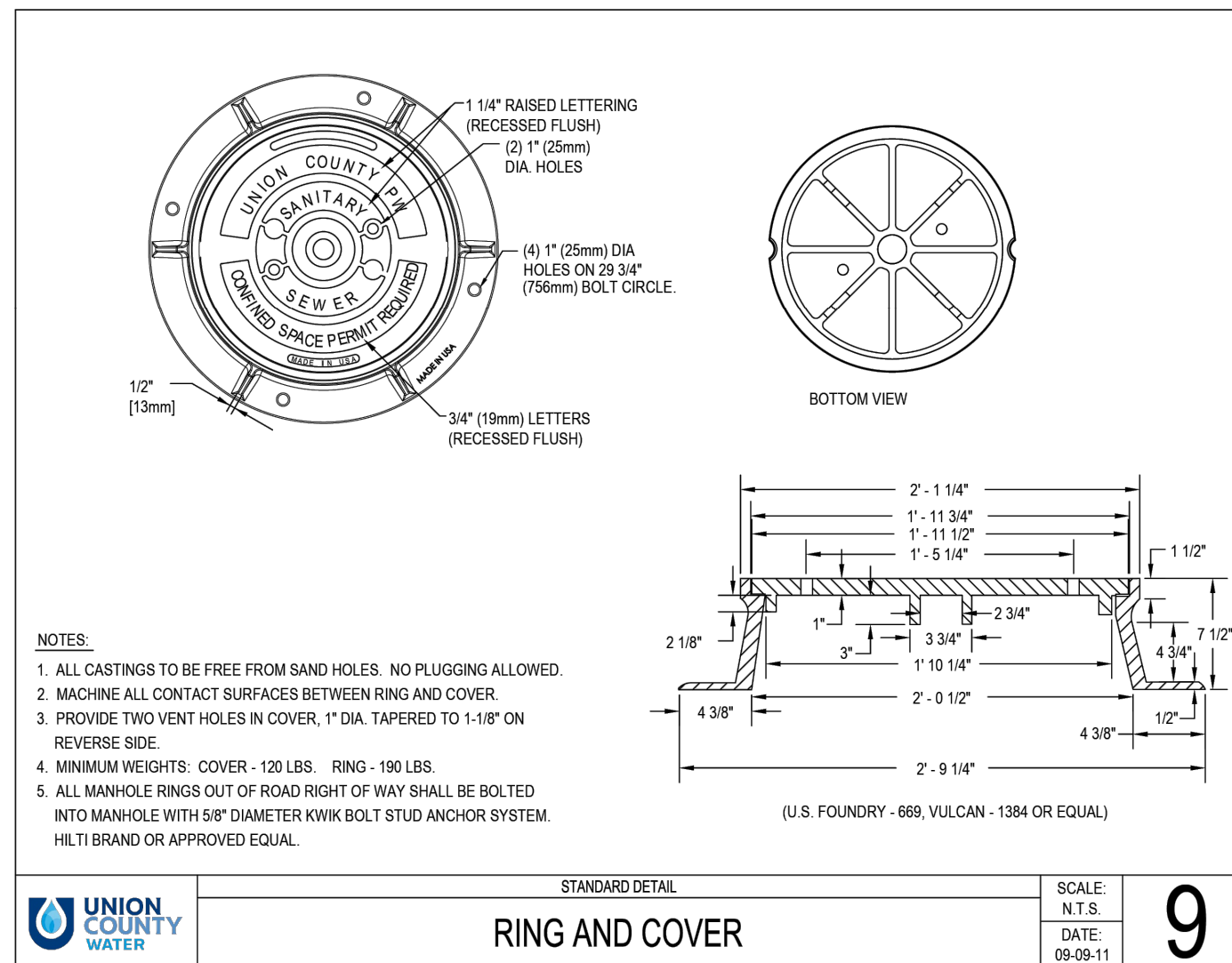
DRAWING NAME: C-DTL5

SHEET TITLE: STORM DRAINAGE DETAILS

SHEET NUMBER: C-801

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

20250903036A Engineering Site Plan C-DTL5.dwg C-801 CT DRAIN PLANS DETAILS By: NDC/QU/BA



Project Name: Keystone Custom Homes- Weddington

Project No.: 25003536A

Description:

By: NWB

Date: 9/24/2025

Checked By: CW

Date: 9/24/2025

NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL

6.61.1 SEDIMENT TRAP DESIGN (SEE DIAGRAM BELOW)

Input

Calculation

Check

GOVERNING REVIEW AGENCY	NCDEQ		
TOTAL DRAINAGE AREA	1.84	Okay	Sediment Trap
		Okay	Skimmer TRAP
		Okay	Sediment TRAP
RAINFALL INTENSITIES (in/hr)	5.89	2-yr	Taken from Table 2-2 Rainfall Intensities - Charlotte, North Carolina (Ch. 2, Charlotte-Mecklenburg Stormwater Design Manual) or NOAA Website https://hdsc.nws.noaa.gov/hdsc/pfds/
	7.54	10-yr	
BARREL PIPE DIA. (in)	18.00		

RATIONAL RUNOFF COEFFICIENT				
Description of surface	C-value (Table 8.03b)	Area (acres)		% of Area
Impervious Area	0.95	0.00		0.00
Wooded Area	0.15	0.00		0.00
Grassed Area (Lawns w/ slopes > 7%)	0.20	0.00		0.00
Disturbed area (Bare Soils)	0.60	1.84		1.00
Composite Runoff Coefficient				0.60

2yr./10-yr. RATIONAL RUNOFF					
TRAP	Area (acres)	Composite C	Time of Concentration, Tc (min)	Intensity, I (in/hr)	Flow, Q (cfs)
Sediment TRAP A (10-yr Rational Runoff)	1.84	0.60	5.0	7.54	8.32
Sediment TRAP A (2-yr Rational Runoff)	1.84	0.60	5.0	5.89	6.50
Total 10 yr Flow to Sediment TRAP (cfs)					8.32

REQUIRED SURFACE AREA				
TRAP	Drainage Area (acres)	Area Required (sf/cfs)	Total Area Required (sf)	
Sediment TRAP A (10-yr Rational Runoff)	1.84	435	3,621.01	
Total REQUIRED Sediment TRAP Area (sf)				3,621

REQUIRED VOLUME				
TRAP	Disturbed Area (acres)	Volume Required (ft/acre)	Total Volume Required (cubic feet)	
Sediment TRAP A	1.84	1,800	3,312.00	
Total REQUIRED Sediment TRAP Volume (cubic feet)				3,312

Project Name: Keystone Custom Homes- Weddington

Project No.: 25003536A

Description:

By: NWB

Date: 9/24/2025

Checked By: CW

Date: 9/24/2025

NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL

6.61.1 SEDIMENT TRAP DESIGN (SEE DIAGRAM BELOW)

Input

Calculation

Check

PROVIDED VOLUME					
Stage	Elevation	Area	Inc. Vol.	Acc Vol.	
0.00	672.00	2,376	0	0	Bottom of 12" Sediment Storage
1.00	673.00	2,931	2649	2,649	Emergency Soillwav
2.00	674.00	3,543	3232	5,881	
3.00	675.00	4,211	3872	9,753	
Total PROVIDED Sediment TRAP Volume (cubic feet)				9,753	OKAY
Total PROVIDED Sediment TRAP Area (square feet)				4,211	OKAY

September 25, 2025

Town of Weddington
1924 Weddington Rd.
Weddington, NC 28104

Subject: Keystone Custom Homes - Weddington
Planning Board Meeting
CED Project 25003536A

Dear Mr. Gordos,

The following are responses to the comments provided by members of the Planning Board following the 9-22 Planning Board meeting. We look forward to discussing these responses with you and the planning board during the recess meeting next Monday.

Comments from Chris Faulk:

1. Provide for water quality for site, looks like from your grading much of it can't get back to BMP
Response: Storm drain will be permanently installed as part of this construction to collect the runoff that currently drains west to Forest Lawn. Ditches have been shown on the plans showing routing to the storm drain. Storm drains are shown on C-300 and C301.
2. Temporary turn-around needs to be paved for fire code or at least noted that will meet fire code and verify they would allow 10% as a road grade
Response: Per a discussion with Fire Marshal Jon Williams at the Union County Fire Department, the maximum slope requirement is 10% and paving is not required as long as it is an all weather surface.
3. I believe your EC plan will need a basin in the front, silt fence won't work for drainage area
Response: A temporary sediment trap has been shown on C-500 of this submittal. Per the NCDEQ Design Manual this temporary BMP is acceptable for contributing areas less than 5 acres.
4. Your notes don't make sense, no curb and no sheet 001
Response: These sheets have now been submitted, and plans updated accordingly.
5. Will utility allow a 10% ground slope in the easement
Response: Union County Water specifications Section 2.05 does not specify a max slope ground above the pipe. To reduce disturbance of existing vegetation as well as installation slopes, drop manholes are added where necessary. The sewer has been designed per Union County requirements and the profile is shown within the submitted plans.
6. Grading from BMP back up to the lots doesn't look like it is a minimum 3:1

Response: No proposed grading exceeds the minimum requirement of 3:1. Proposed contours are shown at 1-foot intervals for existing and proposed. Previous plans showed 2-foot contours for existing and 1-foot for proposed.

7. The steep slopes created on your grading plan seem to contradict our ordinance with wanting them not to be on lots.

Response: The grading plans have been revised to show potential retaining walls for on lot grading. Slopes in the concerned backyard have been reduced.

8. Walking Path-elaborate on the vision, material, construction, show on all plans. Show us why we should consider not having a neighborhood green and replace it with a trail.

Response: We believe that the best amenity for the neighborhood is a pedestrian path. This path exceeds the minimum requirements by creating a ½ mile loop for the twelve home sites. Grading constraints and steep slopes in comment 7 prevent adding a neighborhood green.

Additional comments received

9. The tree survey information on the same scale as the other drawings (1" equals 60") so I can overlay it on the other drawings such as the grading plan, layout plan, etc.

Response: The full tree survey has been submitted with the latest documents. It is added to the set of plans.

10. The Community Green. Keystone didn't show it because "*it would remove too many trees.*" I would still like to see how they planned to do it. The PB/Council can then determine the viability of it.

Response: The community green was considered at the end of the cul-de-sac but there are steep slopes in this area. A flat neighborhood green would add fill back to the floodplain.



11. I think Keystone is viewing the walking path as an alternative to the Community Green. Consequently, I would like more information on the walking path and its viability.

Response: As discussed in the previous comment the topography makes the neighborhood green difficult to grade in at the end of the cul-de-sac. We believe that the best amenity for the neighborhood is a pedestrian path considering only 12 homes.

12. The applicant needs to provide the following items: per appendix B ref. Numbers B31, B35, B36, B45, B47, B55, B56, B57

Response: Reference the following sheets of the new set: For B31 reference sheet C-300 and C-301, for B35 sheet C-300 and C-301, for B36 sheet C-300 and C-301, for B47 reference sheet C-700 and C-701, for B55 reference C-600, for B56 C-300 and C-600, for B57 reference tree survey by Delta Land Services.