Site Development Plans

for

DUN-2302

Dunn, North Carolina

Presented by:

Dunkin

CONSULTANT CONTACT LIST:

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UTILITY & GOVERNING AGENCIES CONTACT LIST

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CITY OF DUNN PLANNING
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DUNN, NORTH CAROLINA 28334
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EMAIL: GADLER@DUNN-NC.ORG
CONTACT: GEORGE ADLER, DIRECTOR

BUILDING INSPECTOR
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102 N. POWELL AVENUE
PO BOX 1065
DUNN, NORTH CAROLINA 28335
TEL: 910-230-3505
CONTACT: BRIAN LOCKAMY, BUILDING INSPECTOR

PUBLIC UTILITIES & PUBLIC WORKS
101 E. CLEVELAND STREET
PO BOX 1065
DUNN, NC 28335
TEL: 910-892-2948

NC DEPT OF TRANSPORTATION
DIVISION 6/DISTRICT 2
PO BOX 1150
FAYETTEVILLE, NC 28302
TEL: 910-364-0601
FAX: 910-437-2529
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POLICE DEPARTMENT
401 EAST BROAD STREET
PO BOX 1065
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FIRE
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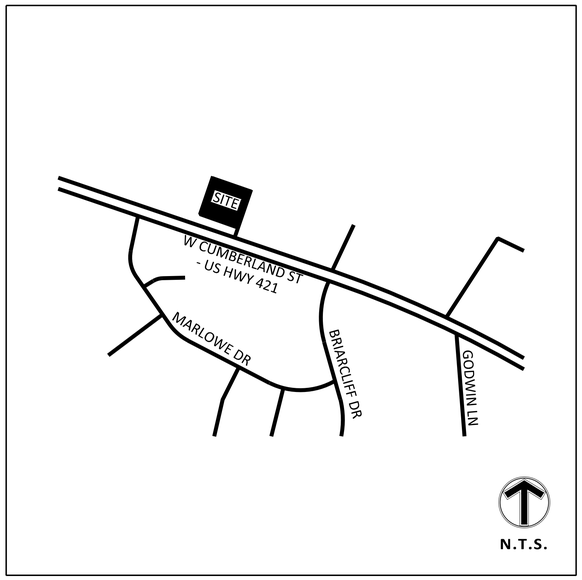
GAS COMPANY
PIEDMONT NATURAL GAS
2256 HARPER HOUSE ROAD
FOUR OAKS, NC
TEL: 800-752-7504



VICINITY MAP
NO SCALE

BENCHMARKS

BM NO. 1
N: 572,353.80
E: 2108187.50
ELEV.=187.32

BM NO. 2
N: 572,456.06
E: 2,107,889.56
ELEV.=182.44

DEVELOPMENT SUMMARY

AREA		
TOTAL SITE AREA	44,579 SF	1.02 AC
DISTURBED AREA	46,524 SF	1.07 AC
EXISTING IMPERVIOUS AREA	43,653 SF	1.00 AC
PROPOSED IMPERVIOUS AREA	36,525 SF	0.84 AC
BUILDING AREA	5,000 SF	
MAXIMUM BUILDING HEIGHT	35'	
PARKING SUMMARY		
STANDARD REQUIRED	1 SPACE PER 200 SF= 25 SPACES	
ADA REQUIRED	2 SPACES	
STANDARD PROVIDED:	46 PARKING SPACES	
ADA PROVIDED:	2 HANDICAP PARKING SPACES	
TOTAL PROVIDED:	48 TOTAL PARKING SPACES	
PARKING AREA		
EXISTING PARKING AREA	43,653 SF	1.00 AC
PROPOSED PARKING AREA	17,253 SF	0.40 AC
BICYCLE PARKING		
REQUIRED	2 PER 50 AUTO SPACES	
PROVIDED	2 BIKE SPACES	

SETBACKS
FRONT YARD
REAR YARD
SIDE YARD

ZONING
PIN
EXISTING ZONING
PROPOSED ZONING

GREEN SPACE REQUIREMENTS
PROPOSED PERVIOUS
PROPOSED IMPERVIOUS

3.

SHEET INDEX

SHEET	DESCRIPTION
C-1.01	TITLE PAGE
C-2.01	EXISTING CONDITIONS
C-2.02	DEMOLITION PLAN
C-3.01	SITE PLAN
C-4.01	EROSION CONTROL PLAN-PHASE I
C-4.02	GRADING AND EROSION CONTROL PLAN - PHASE II
C-5.01	NPDES STABILIZATION PLAN
C-5.02	NPDES DETAILS
C-6.01	UTILITY PLAN
C-7.01	LANDSCAPE PLAN
C-7.02	LANDSCAPE DETAILS
C-8.01	LIGHTING PLAN
C-9.01	DETAILS
C-9.02	DETAILS
C-9.03	DETAILS

3

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nc811.org or 1-800-632-4949

NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
2	07/15/2024	ELA	WBB		CITY OF DUNN COMMENTS #2
3	8/23/2024	ELA	WBB		CITY OF DUNN COMMENTS #3 & DEQ COMMENTS

PRELIMINARY
DESIGN REVIEW
PERMIT SUBMITTAL
CONSTRUCTION DOCUMENTS

DRAWN BY STH
DESIGNED BY NS
CHECKED BY NS
PROJECT NO.

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TITLE PAGE

DUNKIN
DUN-2302
2320 WEST CUMBERLAND ROAD
DUNN, NORTH CAROLINA 28334

SHEET
C-1.01
1 OF 15
REV.

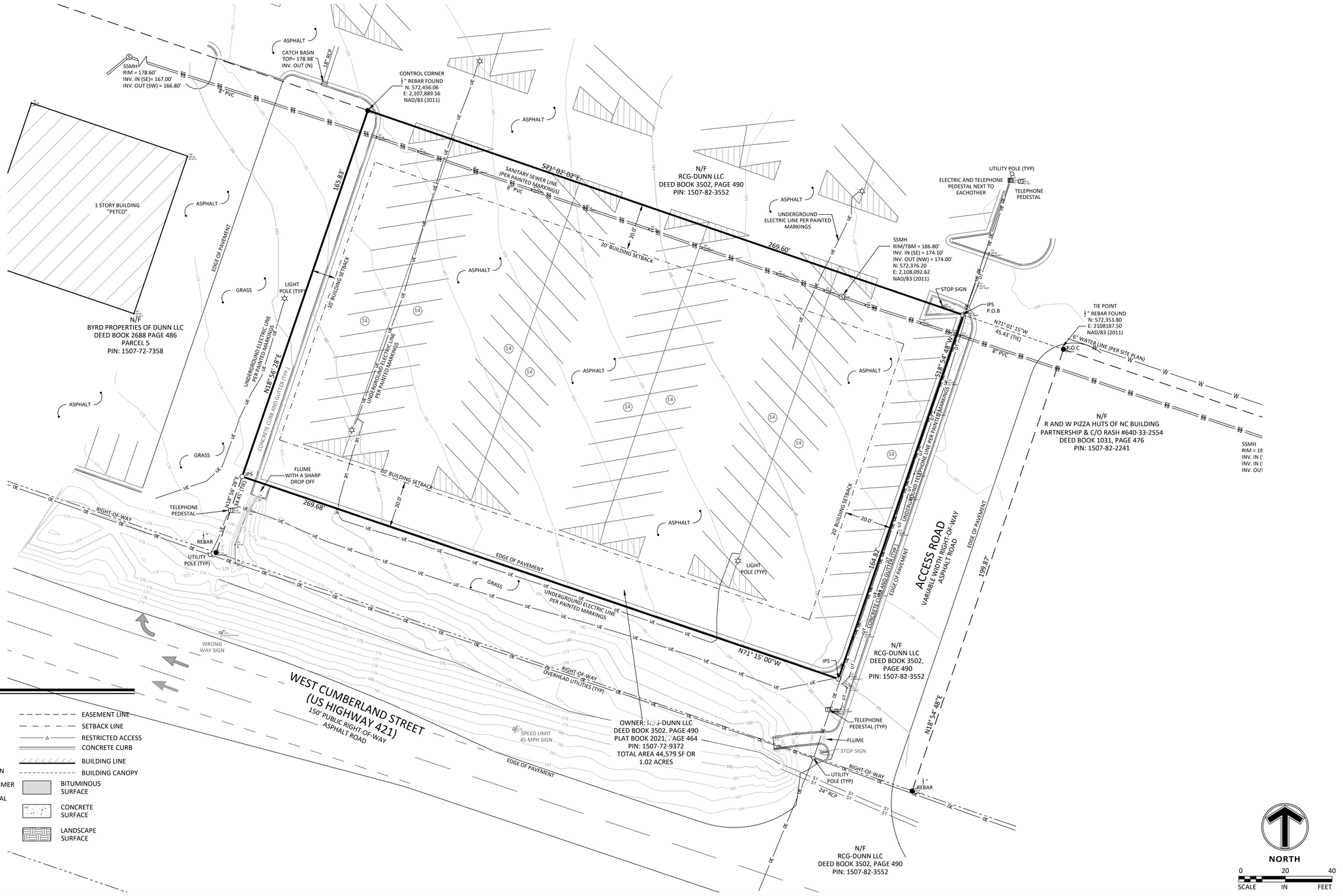
24.15 (LWS TECH) | ERIKA ATKINSON | 9/17/2024 2:56:30 PM
X:\DUN - DUNKIN DONUTS\2302 - DUNN, NC\CAD\SHEETS\DUN2302-C1.01-TITLE-NC.DWG\C1.01 TITLE SHEET

BENCHMARKS

BM NO.1
SANITARY SEWER MANHOLE AT NORTHERN PROPERTY LINE OF THE PROPERTY. MANHOLE FALLS WITHIN THE EXISTING PARKING AREAS.

PROPERTY SUMMARY

1. SUBJECT PROPERTY'S ADDRESS IS HARNETT CROSSING SHOPPING CENTER, 2200 WEST CUMBERLAND STREET, DUNN, NORTH CAROLINA 28334. ITS PROPERTY IDENTIFICATION NUMBER IS 1507-72-9372.
2. THE GROSS AREA OF THE SUBJECT PROPERTY IS 1.02 ACRES OR 44,579 SQUARE FEET.
3. THE SUBJECT PROPERTY IS ZONED C-3 COMMERCIAL, PER CITY OF DUNN PLANNING DEPARTMENT.
4. THE BUILDING(S) AND EXTERIOR DIMENSIONS OF THE OUTSIDE WALL AT GROUND LEVEL ARE SHOWN ON THE SURVEY. IT MAY NOT BE THE FOUNDATION WALL.



LEGEND

- FOUND MONUMENT
- SET MONUMENT MARKED
- ELECTRIC METER
- LIGHT
- AIR CONDITIONER
- GUY ANCHOR
- HANDICAP STALL
- UTILITY POLE
- POST
- SIGN
- DECIDUOUS TREE
- CONIFEROUS TREE
- WATERMAIN
- SANITARY SEWER
- FORCEMAIN (SAN.)
- STORM SEWER
- FLARED END SECTION
- ELECTRIC TRANSFORMER
- TELEPHONE PEDESTAL
- GAS METER
- OVERHEAD WIRE
- CHAIN LINK FENCE
- IRON FENCE
- WIRE FENCE
- WOOD FENCE
- EASEMENT LINE
- SETBACK LINE
- RESTRICTED ACCESS
- CONCRETE CURB
- BUILDING LINE
- BUILDING CANOPY
- BITUMINOUS SURFACE
- CONCRETE SURFACE
- LANDSCAPE SURFACE

NO	DATE	BY	CKD	APPR	COMMENT
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DRAWN BY: STH
DESIGNED BY: NS
CHECKED BY: NS
PROJECT NO.:

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EXISTING CONDITIONS

DUNKIN
DUN-2302
2320 WEST CUMBERLAND ROAD
DUNN, NORTH CAROLINA 28334

SHEET
C-2.01
2 OF 15
REV.

24:15 (LMS TECH) | K:\DUN - DUNKIN' DONUTS\2302 - DUNN, NC\CAD\SHEETS\DUN2302-C2.01-EXCND-NC.DWG C2.01 EXISTING CONDITIONS | 9/9/2024 1:17:42 PM

DEMOLITION NOTES

1. REMOVE EXISTING ITEM, COORDINATE REMOVAL WITH APPLICABLE FEDERAL, STATE, COUNTY, CITY, LOCAL AGENCIES OR LOCAL UTILITY COMPANY.
2. RELOCATE EXISTING ITEM, COORDINATE RELOCATION WITH APPLICABLE FEDERAL, STATE, COUNTY, CITY, LOCAL AGENCIES OR LOCAL UTILITY COMPANY.
3. ITEM TO REMAIN.

SAWCUT LINE

LEGEND

- GAS METER
- HYDRANT
- LIGHT
- STORM SEWER
- DRAINTILE
- WATERMAIN
- FORCEMAIN (SAN.)
- SANITARY SEWER
- OVERHEAD WIRE
- TELEPHONE PEDESTAL
- UNDERGROUND CABLE TV
- ELECTRIC TRANSFORMER
- GAS METER
- WIRE FENCE
- IRON FENCE
- WOOD FENCE
- CHAIN LINK FENCE
- BLOCK RETAINING WALL
- SPRINKLER HEAD
- SPRINKLER VALVE
- GUIDE RAIL
- HANDRAIL
- TREE LINE
- TREES / SHRUBS
- CONCRETE
- BOLLARD
- SIGN
- CONCRETE CURB
- BUILDING LINE
- REMOVE UTILITY LINE
- REMOVE CONCRETE CURB
- SAW CUT LINE
- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE GRAVEL DRIVE
- REMOVE LANDSCAPING
- REMOVE BUILDING
- REMOVE TREE
- REMOVE EXISTING STRUCTURE
- REMOVE LIGHT
- REMOVE CHAIN LINK FENCE

SSMH
RIM = 178.60'
INV. IN (SE)= 167.00'
INV. OUT (SW) = 166.80'

ASPHALT

CATCH BASIN
TOP= 178.98'
INV. OUT (N)

18" RCP

8" PVC

1 STORY BUILDING
"PETCO"

N/F
BYRD PROPERTIES OF DUNN LLC
DEED BOOK 2688 PAGE 486
PARCEL 5
PIN: 1507-72-7358

EDGE OF PAVEMENT

GRASS

LIGHT POLE (TYP)

165.83'

N18° 56' 28"E

SAWCUT LINE (typ.)

UNDERGROUND ELECTRIC LINE PER PAINTED MARKINGS

UE

20' BUILDING SETBACK

20.0'

CONCRETE CURB AND GUTTER (TYP)

N18° 56' 28"E 34.43' (TIE)

FLUME WITH A SHARP DROP OFF

269.68'

RIGHT-OF-WAY

OE

TELEPHONE PEDESTAL

UTILITY POLE (TYP)

WRONG WAY SIGN

WEST CUMBERLAND STREET
(US HIGHWAY 421)
150' PUBLIC RIGHT-OF-WAY
ASPHALT ROAD

SPEED LIMIT
45 MPH SIGN

EDGE OF PAVEMENT

S71° 02' 02"E

SANITARY SEWER LINE (PER PAINTED MARKINGS)
8" PVC

N/F
RCG-DUNN LLC
DEED BOOK 3502, PAGE 490
PIN: 1507-82-3552

269.60'

UNDERGROUND ELECTRIC LINE PER PAINTED MARKINGS

SSMH
RIM/TBM = 186.80'
INV. IN (SE) = 174.10'
INV. OUT (NW) = 174.00'
N: 572,376.20
E: 2,108,092.62
NAD83 (2011)

UTILITY POLE (TYP)

ELECTRIC AND TELEPHONE PEDESTAL NEXT TO EACHOTHER

TELEPHONE PEDESTAL

STOP SIGN

N18° 54' 48"W 45.43' (TIE)

8" PVC

WATER LINE (PER SITE PLAN)

S18° 54' 48"E

N/F
R AND W PIZZA HUTS OF NC BUIL PARTNERSHIP & C/O RASH #640-3
DEED BOOK 1031, PAGE 476
PIN: 1507-82-2241

ACCESS ROAD
VARIABLE WIDTH RIGHT-OF-WAY
ASPHALT ROAD

599.87'

164.82'

CONCRETE CURB AND GUTTER (TYP)

20' BUILDING SETBACK

N71° 15' 00"W

OWNER: RCG-DUNN LLC
DEED BOOK 3502. PAGE 490
PLAT BOOK 2021, PAGE 464
PIN: 1507-72-9372
TOTAL AREA 44,579 SF OR
1.02 ACRES

TELEPHONE PEDESTAL (TYP)

FLUME

UTILITY POLE (TYP)

24" RCP

N/F
RCG-DUNN LLC
DEED BOOK 3502, PAGE 490
PIN: 1507-82-3552

N/F
RCG-DUNN LLC
DEED BOOK 3502, PAGE 490
PIN: 1507-82-3552

N18° 54' 48"E

NORTH

0 20 40
SCALE IN FEET

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THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
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DESIGNED BY NS
CHECKED BY NS
PROJECT NO.

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DEMOLITION PLAN

DUNKIN
DUN-2302
2320 WEST CUMBERLAND ROAD
DUNN, NORTH CAROLINA 28334

SHEET
C-2.02
3 OF 15
REV.

24:15 (LMS TECH) | K:\DUN - DUNKIN' DONUTS\2302 - DUNN, NC\CAD\SHEETS\DUN2302-C2.02-DEMO-NC.DWG C2.02 DEMOLITION PLAN | 8/9/2024 1:37:24 PM

DEVELOPMENT NOTES

1. THE LOCATIONS OF ALL UTILITIES SHOWN ON THESE PLANS ARE BASED ON THE AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UTILITIES WITH THE UTILITY OWNERS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL HANDICAP SITE FEATURES SHALL BE CONSTRUCTED TO MEET ALL FEDERAL, STATE AND LOCAL CODES.
3. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.
4. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. FAILURE OF THE CONTRACTOR TO FOLLOW THIS PROCEDURE SHALL CAUSE THE CONTRACTOR TO ASSUME FULL RESPONSIBILITY FOR ANY SUBSEQUENT MODIFICATION OF THE WORK MANDATED BY ANY REGULATORY AUTHORITY. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY AND LOCAL CODES.
5. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
6. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
7. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH RESPECTIVE UTILITY.
8. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE CONTRACT LIMITS DUE TO CONSTRUCTION OPERATIONS.
9. ALL DIMENSIONS ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.
10. DO NOT SCALE THIS DRAWING AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
11. THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
12. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
13. GENERAL CONTRACTOR WILL ERECT AND ILLUMINATE A SITE IDENTIFICATION SIGN, PER OWNER'S SPECIFICATION. COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE.
14. FINISH CURB AND WALK ELEVATIONS SHALL BE 6" ABOVE FINISH PAVEMENT GRADE UNLESS NOTED DIFFERENT ON PLAN.
15. CONTRACTOR SHALL ENSURE THAT ADEQUATE SITE LIGHTING IS PROVIDED PER OWNER'S SPECIFICATIONS.
16. ALL RADII DIMENSIONS ARE TO FACE OF CURB.
17. ALL UTILITIES TO SERVICE BUILDING SHALL BE UNDERGROUND ON SITE, UNLESS OTHERWISE INDICATED.
18. ALL STREET SURFACES, DRIVEWAYS, CULVERTS, CURB AND GUTTERS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS.
19. ALL DISTURBED AREAS SHALL HAVE TEMPORARY SEEDING AND MULCHING. ALL AREAS THAT ARE PLANNED TO BE BARE FOR MORE THAN 45 DAYS SHALL BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS.
20. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. THE CONTRACTOR(S) SHALL CONTACT NC ONE CALL AT 1-800-632-4949 FOR ASSISTANCE IN LOCATING EXISTING UTILITIES. CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
21. ALL LOT STRIPING AND DIRECTIONAL ARROWS TO BE WHITE REFLECTIVE MARKINGS AND SHALL CONFORM TO LOCAL REGULATIONS.
22. COMPACTION AND MAINTENANCE OF PROPER MOISTURE CONTENT OF THE SOIL UNDER BUILDINGS AND PAVED AREAS SHALL BE ACCOMPLISHED TO ACHIEVE 95 STANDARD PROCTOR MAXIMUM DRY DENSITY OR AS RECOMMENDED IN THE SOIL REPORT.
23. THE CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER..
24. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS AND THE JOB SITE. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER WHO PREPARED THE PLANS OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATIONS TO THESE PLANS OR OF ANY FIELD CONFLICTS.
25. ALL PERMITS RELATIVE TO THE PROJECT MUST BE OBTAINED, PRIOR TO CONSTRUCTION. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY AND LOCAL CODES.
26. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS.
27. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL BUILDING
28. ALL PARKING LOT DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
29. CONTRACTOR SHALL COORDINATE EXACT SIZE OF HVAC CONCRETE PADS WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS FOR DETAILS.
30. ALL SEEDING, TEMPORARY AND PERMANENT, TO BE INSTALLED TO LOCAL REGULATIONS AND STANDARD PRACTICES.
31. ALL ROAD WORK SHALL BE PERFORMED IN ACCORDANCE WITH "THE CURRENT EDITION OF THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS".
32. ANY AND ALL QUANTITIES SHOWN OR IMPLIED ON THESE PLANS ARE FOR ESTIMATION PURPOSES ONLY.
33. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE IRRIGATION CONTRACTOR, FOR IRRIGATION SLEEVE SIZE FOR IRRIGATION SYSTEM.
34. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE OWNER AND DESIGN PROFESSIONAL HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL..

LEGEND

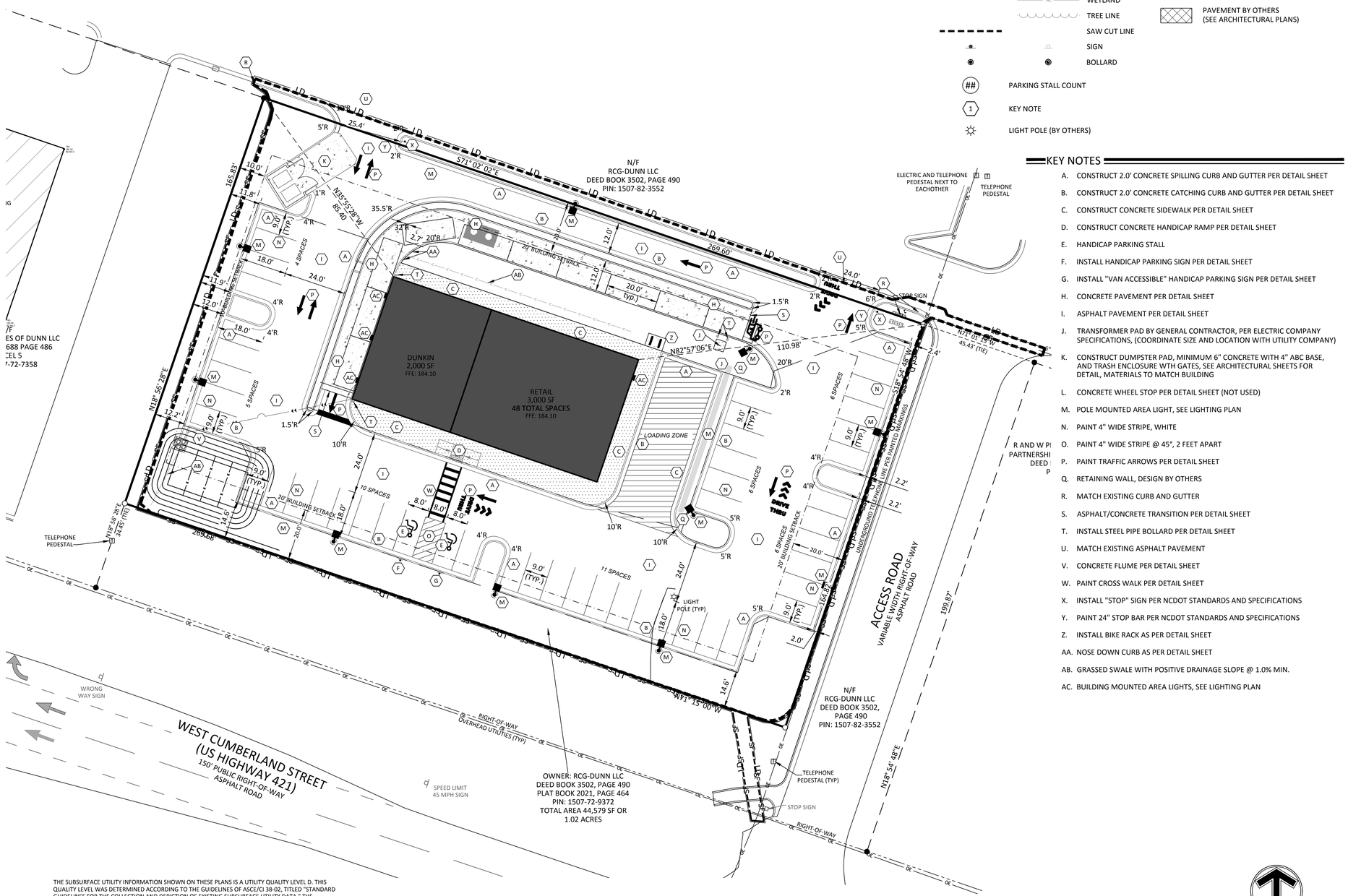
PROPOSED	EXISTING	
		BOUNDARY LINE
		CONCRETE CURB
		EASEMENT LINE
		BUILDING LINE
		RETAINING WALL
	WL	WETLAND
		TREE LINE
		SAW CUT LINE
		SIGN
		BOLLARD

STANDARD DUTY ASPHALT PAVING
HEAVY DUTY ASPHALT PAVING
CONCRETE PAVING
CONCRETE SIDEWALK
PAVEMENT BY OTHERS (SEE ARCHITECTURAL PLANS)

(##) PARKING STALL COUNT
(1) KEY NOTE
LIGHT POLE (BY OTHERS)

KEY NOTES

A. CONSTRUCT 2.0' CONCRETE SPILLING CURB AND GUTTER PER DETAIL SHEET
B. CONSTRUCT 2.0' CONCRETE CATCHING CURB AND GUTTER PER DETAIL SHEET
C. CONSTRUCT CONCRETE SIDEWALK PER DETAIL SHEET
D. CONSTRUCT CONCRETE HANDICAP RAMP PER DETAIL SHEET
E. HANDICAP PARKING STALL
F. INSTALL HANDICAP PARKING SIGN PER DETAIL SHEET
G. INSTALL "VAN ACCESSIBLE" HANDICAP PARKING SIGN PER DETAIL SHEET
H. CONCRETE PAVEMENT PER DETAIL SHEET
I. ASPHALT PAVEMENT PER DETAIL SHEET
J. TRANSFORMER PAD BY GENERAL CONTRACTOR, PER ELECTRIC COMPANY SPECIFICATIONS, (COORDINATE SIZE AND LOCATION WITH UTILITY COMPANY)
K. CONSTRUCT DUMPSTER PAD, MINIMUM 6" CONCRETE WITH 4" ABC BASE, AND TRASH ENCLOSURE WITH GATES, SEE ARCHITECTURAL SHEETS FOR DETAIL, MATERIALS TO MATCH BUILDING
L. CONCRETE WHEEL STOP PER DETAIL SHEET (NOT USED)
M. POLE MOUNTED AREA LIGHT, SEE LIGHTING PLAN
N. PAINT 4" WIDE STRIPE, WHITE
O. PAINT 4" WIDE STRIPE @ 45°, 2 FEET APART
P. PAINT TRAFFIC ARROWS PER DETAIL SHEET
Q. RETAINING WALL, DESIGN BY OTHERS
R. MATCH EXISTING CURB AND GUTTER
S. ASPHALT/CONCRETE TRANSITION PER DETAIL SHEET
T. INSTALL STEEL PIPE BOLLARD PER DETAIL SHEET
U. MATCH EXISTING ASPHALT PAVEMENT
V. CONCRETE FLUME PER DETAIL SHEET
W. PAINT CROSS WALK PER DETAIL SHEET
X. INSTALL "STOP" SIGN PER NCDOT STANDARDS AND SPECIFICATIONS
Y. PAINT 24" STOP BAR PER NCDOT STANDARDS AND SPECIFICATIONS
Z. INSTALL BIKE RACK AS PER DETAIL SHEET
AA. NOSE DOWN CURB AS PER DETAIL SHEET
AB. GRASSED SWALE WITH POSITIVE DRAINAGE SLOPE @ 1.0% MIN.
AC. BUILDING MOUNTED AREA LIGHTS, SEE LIGHTING PLAN



THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE NOTIFICATION CENTER (GOPHER STATE ONE FOR MINNESOTA). THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

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NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
2	07/15/2024	ELA	WBB		CITY OF DUNN COMMENTS #2
3	8/23/2024	ELA	WBB		CITY OF DUNN COMMENTS #3 & DEQ COMMENTS

PRELIMINARY
DESIGN REVIEW
PERMIT SUBMITTAL
CONSTRUCTION DOCUMENTS

DRAWN BY STH
DESIGNED BY NS
CHECKED BY NS
PROJECT NO.

Sambatek
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SITE PLAN

DUNKIN
DUN-2302
2320 WEST CUMBERLAND ROAD
DUNN, NORTH CAROLINA 28334

SHEET
C-3.01
4 OF 15
REV.

24.15 LMS TECH | KUI LONG | 9/17/2024 10:47:17 AM
X:\DUN - DUNKIN' DONUTS\2302 - DUNN, NC\CAD\SHEETS\DUN2302-C3.01-SITE-NC.DWG C3.01 SITE PLAN

GRADING/EROSON CONTROL NOTES

1. ALL GRADING, BACKFILLING, EXCAVATION, ETC., SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEO-TECHNICAL INVESTIGATION REPORTS. REFER TO THESE REPORTS FOR ADDITIONAL INFORMATION NOT TRANSFERRED TO THESE PLANS.
2. CONTRACTOR IS TO CONTACT 811 FOR UNDERGROUND UTILITY LOCATION 48 HOURS PRIOR TO DIGGING.
3. THE EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO ANY EARTHWORK.
4. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
5. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED AND REPAIRED AT A MINIMUM OF WEEKLY BASIS AND AFTER EVERY RAIN EVENT.
6. ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
7. CONTRACTOR SHALL LOCATE AND VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
8. PURSUANT TO G.S. 113A-57(2), THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PURSUANT TO G.S. 113A-57(3), PROVISIONS FOR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
9. ALL CUT AND FILL SLOPES AND CHANNEL SIDESLOPES WHICH ARE NOT TO BE PAVED, SHALL BE SEEDED UNTIL A GOOD STAND OF GRASS IS OBTAINED IN ACCORDANCE WITH:
   - A. 100 LBS PER 1,000 SQUARE FOOT GROUND LIMESTONE OR EQUIVALENT. NO SOIL TEST REQUIRED FOR INITIAL ESTABLISHMENT.
   - B. 20 LBS OF 10-10-10 FERTILIZER OR EQUIVALENT PER 1,000 SQUARE FOOT.
   - C. VARIETIES TO BE SEEDED:
     1. SPRING SEEDING - MARCH1 - APRIL 30; SPRING OATS 2.5 LBS PER 1,000 SQUARE FOOT.
     2. SUMMER SEEDING - MAY 1 - AUGUST 1; WEEPING LOVE GRASS AT 2 OZ. PER SQUARE FOOT MIXED WITH 1 BUSHEL OF SAWDUST FOR UNIFORM SEEDING.
     3. ASPHALT MULCH 6 GALLONS PER 1,000 SQUARE FOOT. ALL SEEDING WILL BE MULCHED.
10. SEE LANDSCAPING PLAN FOR PERMANENT SEEDING.
11. ALL FINISHED SURFACES SHOULD SLOPE AWAY FROM THE BUILDING, TOWARDS DRAINAGE OUTLETS FOR POSITIVE DRAINAGE AND TO AVOID STANDING WATER.

MAINTENANCE NOTES

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED AND MAINTAINED DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. ANY SEDIMENT THAT HAS BEEN TRANSPORTED BEYOND THE PROJECT LIMITS SHALL BE REMOVED. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

CONSTRUCTION ENTRANCE:
INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.

SILT FENCE:
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE GRAVEL OUTLET:
INSTALL SILT FENCE GRAVEL OUTLETS AT ALL LOW POINTS IN FENCE. INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.

OUTLET STABILIZATION STRUCTURE:
INSPECT RIP RAP STRUCTURES WEEKLY AND AFTER SIGNIFICANT (0.5 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

BLOCK AND GRAVEL INLET PROTECTION:
INSTALL BLOCK GRAVEL INLET PROTECTION AT ALL STORM STRUCTURES. INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

DIVERSION DITCHES:
INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

LEGEND

PROPOSED	EXISTING		
		BOUNDARY LINE	
		CONCRETE CURB	
D	D	STORM SEWER	
		DRAINTILE	
		BUILDING LINE	
		RETAINING WALL	
902	902	CONTOUR	
	WL	WETLAND	
	902.50	TREE LINE	
902.50		SPOT ELEVATIONS	
		RIPRAP	
EOF 902.50		OVERFLOW ELEV.	
	ST # 999.9	SOIL BORING	
		CONSTRUCTION ENTRANCE	

	CONCRETE PAVING	
	CONCRETE SIDEWALK	
	PAVEMENT BY OTHERS (SEE ARCHITECTURAL PLANS)	
	ADA PARKING - 2% MAX CROSS SLOPE IN ALL DIRECTIONS	
	PROPOSED ROOF DRAIN 8" CORRUGATED PLASTIC 3' MIN COVER 1% MIN SLOPE PVC IN TRAFFIC AREAS CLEANOUTS LOCATED @ ALL BENDS	
LD	LIMITS OF DISTURBANCE	
SF	SILT FENCE	
TP	TREE PROTECTION FENCE	
XXXX.XX / XXXX.XX	TOP OF CURB / BOTTOM OF CURB	
TW=XXX.XX / BW=XXX.XX	TW IS GROUND AT TOP OF WALL / BW IS GROUND AT BOTTOM OF WALL	
	INLET PROTECTION	
	SILT FENCE OUTLET	

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WESTERLY SILT FENCE CALCULATION:
DRAINAGE AREA PROTECTED BY SILT FENCE AND 4 SILT FENCE OUTLETS = 1,842 SF = 0.04 ac

169 LF TO PROTECT THE 0.04 AC DRAINING TO THE EXISTING FLUME
(NCDEQ REQUIREMENT ACHIEVED OF 100 LF OF SILT FENCE PROTECTION FOR EACH 0.25 DISTURBED ACRE)

SEDIMENT TRAP ST-1

DISTURBED AREA =	0.98 ac.
TOTAL DRAINAGE AREA =	0.98 ac.
SEDIMENT STORAGE DEPTH =	3.5 ft
DEPTH TO CREST OF SPILLWAY =	4.0 ft
DEPTH TO TOP OF BERM =	5.0 ft
BOTTOM LENGTH =	28.0 ft
BOTTOM WIDTH =	14.0 ft
TOP LENGTH =	48.0 ft
TOP WIDTH =	34.0 ft
LENGTH OF WEIR =	4.0 ft
STORAGE REQUIRED =	1764 cu. ft.
STORAGE PROVIDED =	2630 cu. ft.

CONSTRUCTION SEQUENCE

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EROSION IS MINIMIZED AND THAT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES ARE MAINTAINED THROUGHOUT THE EXECUTION OF THIS PROJECT.

1. OBTAIN A LAND DISTURBING PERMIT. SCHEDULE A PRE-CONSTRUCTION MEETING.
2. INSTALL GRAVEL CONSTRUCTION PAD, ROCK DAMS, SILT FENCE, SILT FENCE OUTLETS TO ENSURE ALL PERIMETER MEASURES ARE INSTALLED. SAWCUT PAVEMENT AND CURB & GUTTER AS NEEDED TO CONSTRUCT SEDIMENT TRAP AND DIVERSION DITCHS FOR PHASE 1 EROSION CONTROL MEASURES. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEE DETAIL ON SEEDING SCHEDULE. CONTRACTOR SHALL BEGIN WITH SEDIMENT FENCING AND ALL OTHER SEDIMENT CONTAINMENT DEVICES. INSTALL APPROVED OUTLET PROTECTION AT EXISTING FLUME AND NORTHERLY EXISTING CATCH BASIN.
3. BEGIN CLEARING/GRUBBING AND GENERAL DEMOLITION AND EXCAVATION ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PHASE/STAGE EROSION CONTROL TO ALLOW FOR CONSTRUCTION. CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION DEVICES AT LEAST ONCE A WEEK AND AFTER EVERY RAINFALL. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED.
4. ADD PHASE ROCK DAM IN AREA DOWNSTREAM OF PROPOSED FLUME. ADDITIONAL MEASURES MAY BE REQUIRED BY THE INSPECTOR DUE TO ACTUAL FIELD CONDITIONS.
5. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, ETC.. SEED AND MULCH DENUDED AREAS WITHIN FIFTEEN (15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION; THE CONTRACTOR SHALL ENSURE THAT THE EROSION CONTROL DEVICES REMAIN UNDISTURBED DURING CONSTRUCTION OF THE BUILDING PADS AND ASSOCIATED PARKING/DRIVE AREAS ADJACENT TO THESE DEVICES UNTIL THE CONTRIBUTING UPSTREAM AREAS HAVE BEEN STABILIZED AND APPROVED.
6. WHEN SITE IS APPROVED, REMOVE SILT FENCING AND INLET PROTECTION, ETC.., AND SEED OUT OR PAVE ANY RESULTING BARE AREAS.

SOUTHERLY SILT FENCE CALCULATION:
DRAINAGE AREA PROTECTED BY SOUTHERLY SILT FENCE AND 5 SILT FENCE OUTLETS = 198 SF = 0.005 ac

260 LF TO PROTECT THE 0.005 AC DRAINING TO THE EXISTING FLUME
(NCDEQ REQUIREMENT ACHIEVED OF 100 LF OF SILT FENCE PROTECTION FOR EACH 0.25 DISTURBED ACRE)

NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
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3	8/23/2024	ELA	WBB		CITY OF DUNN COMMENTS #3 & DEQ COMMENTS

PRELIMINARY | DESIGN REVIEW | PERMIT SUBMITTAL | CONSTRUCTION DOCUMENTS

DRAWN BY: STH | DESIGNED BY: NS | CHECKED BY: NS | PROJECT NO.

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EROSION CONTROL PLAN - PHASE 1

DUNKIN
DUN-2302
2320 WEST CUMBERLAND ROAD
DUNN, NORTH CAROLINA 28334

SHEET C-4.01 5 OF 15 REV.

24.15 (LWS TECH) | ERIKA ATKINSON | 9/17/2024 3:29:10 PM
X:\DUN - DUNKIN DONUTS\2302 - DUNN, NC\CAD\SHEETS\DUN2302-C4.02-EC-NC.DWG\C4.01 EROSION CONTROL - PH1

GRADING NOTES

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6. ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
7. CONTRACTOR SHALL LOCATE AND VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
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      3. ASPHALT MULCH 6 GALLONS PER 1,000 SQUARE FOOT. ALL SEEDING WILL BE MULCHED.
10. SEE LANDSCAPING PLAN FOR PERMANENT SEEDING.
11. ALL FINISHED SURFACES SHOULD SLOPE AWAY FROM THE BUILDING, TOWARDS DRAINAGE OUTLETS FOR POSITIVE DRAINAGE AND TO AVOID STANDING WATER.

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED AND MAINTAINED DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. ANY SEDIMENT THAT HAS BEEN TRANSPORTED BEYOND THE PROJECT LIMITS SHALL BE REMOVED. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

CONSTRUCTION ENTRANCE:
INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.

SILT FENCE:
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE GRAVEL OUTLET:
INSTALL SILT FENCE GRAVEL OUTLETS AT ALL LOW POINTS IN FENCE. INSPECT SEDIMENT FENCE GRAVEL OUTLETS AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. ANY RIP RAP DISPLACED MUST BE REPLACED IMMEDIATELY.

OUTLET STABILIZATION STRUCTURE:
INSPECT RIP RAP STRUCTURES WEEKLY AND AFTER SIGNIFICANT (0.5 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIP RAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

BLOCK AND GRAVEL INLET PROTECTION:
INSTALL BLOCK GRAVEL INLET PROTECTION AT ALL STORM STRUCTURES. INSPECT THE BARRIER OF AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

DIVERSION DITCHES:
INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

SEDIMENT TRAP:
INSPECT SEDIMENT TRAP AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. EXCAVATE THE SEDIMENT FROM THE ENTIRE TRAP NOT JUST AROUND THE FIRST CELL.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE TRAP.

LEGEND

PROPOSED	EXISTING	
		BOUNDARY LINE
		CONCRETE CURB
D	D	STORM SEWER
		DRAINTILE
		BUILDING LINE
		RETAINING WALL
902	902	CONTOUR
	WL	WETLAND
		TREE LINE
902.50 ×	902.50 ×	SPOT ELEVATIONS
		RIPRAP
EOF 902.50		OVERFLOW ELEV.

CONCRETE PAVING
CONCRETE SIDEWALK
PAVEMENT BY OTHERS (SEE ARCHITECTURAL PLANS)
ADA PARKING - 2% MAX CROSS SLOPE IN ALL DIRECTIONS
PROPOSED ROOF DRAIN 8" CORRUGATED PLASTIC 3' MIN COVER 1% MIN.SLOPE PVC IN TRAFFIC AREAS CLEANOUTS LOCATED @ ALL BENDS
ST # 099.9 SOIL BORING

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE NOTIFICATION CENTER (GOPHER STATE ONE FOR MINNESOTA). THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

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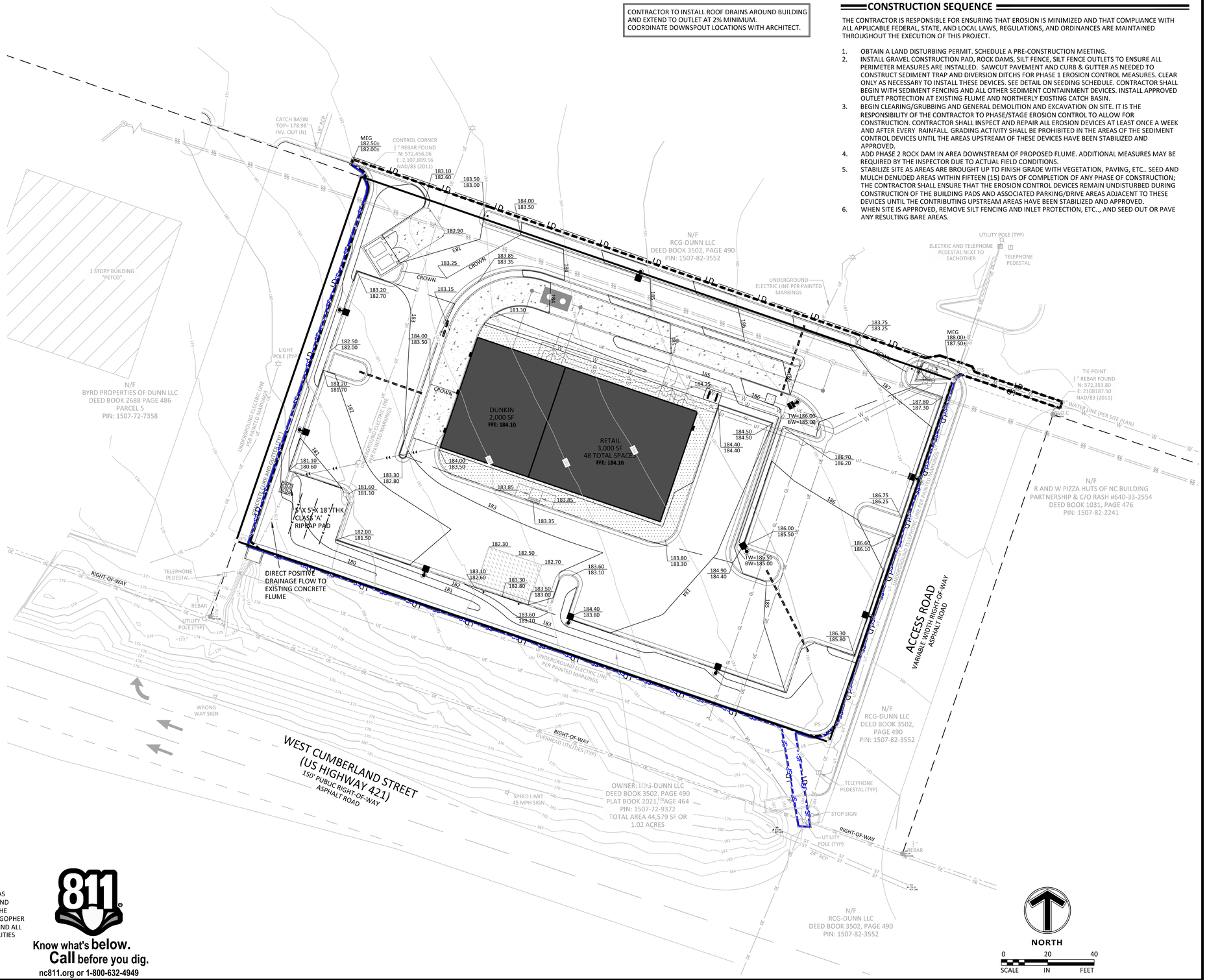
CONTRACTOR TO INSTALL ROOF DRAINS AROUND BUILDING AND EXTEND TO OUTLET AT 2% MINIMUM. COORDINATE DOWNSPOUT LOCATIONS WITH ARCHITECT.

CONSTRUCTION SEQUENCE

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT EROSION IS MINIMIZED AND THAT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES ARE MAINTAINED THROUGHOUT THE EXECUTION OF THIS PROJECT.

1. OBTAIN A LAND DISTURBING PERMIT. SCHEDULE A PRE-CONSTRUCTION MEETING.
2. INSTALL GRAVEL CONSTRUCTION PAD, ROCK DAMS, SILT FENCE, SILT FENCE OUTLETS TO ENSURE ALL PERIMETER MEASURES ARE INSTALLED. SAWCUT PAVEMENT AND CURB & GUTTER AS NEEDED TO CONSTRUCT SEDIMENT TRAP AND DIVERSION DITCHS FOR PHASE 1 EROSION CONTROL MEASURES. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEE DETAIL ON SEEDING SCHEDULE. CONTRACTOR SHALL BEGIN WITH SEDIMENT FENCING AND ALL OTHER SEDIMENT CONTAINMENT DEVICES. INSTALL APPROVED OUTLET PROTECTION AT EXISTING FLUME AND NORTHERLY EXISTING CATCH BASIN.
3. BEGIN CLEARING/GRUBBING AND GENERAL DEMOLITION AND EXCAVATION ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PHASE/STAGE EROSION CONTROL TO ALLOW FOR CONSTRUCTION. CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION DEVICES AT LEAST ONCE A WEEK AND AFTER EVERY RAINFALL. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED.
4. ADD PHASE 2 ROCK DAM IN AREA DOWNSTREAM OF PROPOSED FLUME. ADDITIONAL MEASURES MAY BE REQUIRED BY THE INSPECTOR DUE TO ACTUAL FIELD CONDITIONS.
5. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, ETC.. SEED AND MULCH DENUDED AREAS WITHIN FIFTEEN (15) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION; THE CONTRACTOR SHALL INSURE THAT THE EROSION CONTROL DEVICES REMAIN UNDISTURBED DURING CONSTRUCTION OF THE BUILDING PADS AND ASSOCIATED PARKING/DRIVE AREAS ADJACENT TO THESE DEVICES UNTIL THE CONTRIBUTING UPSTREAM AREAS HAVE BEEN STABILIZED AND APPROVED.
6. WHEN SITE IS APPROVED, REMOVE SILT FENCING AND INLET PROTECTION, ETC.., AND SEED OUT OR PAVE ANY RESULTING BARE AREAS.



NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
2	07/15/2024	ELA	WBB		CITY OF DUNN COMMENTS #2
3	8/23/2024	ELA	WBB		CITY OF DUNN COMMENTS #3 & DEQ COMMENTS

PRELIMINARY
DESIGN REVIEW
PERMIT SUBMITTAL
CONSTRUCTION DOCUMENTS

DRAWN BY STH
DESIGNED BY NS
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GRADING PLAN AND EROSION CONTROL PLAN - PHASE 2

DUNKIN
DUN-2302
2320 WEST CUMBERLAND ROAD
DUNN, NORTH CAROLINA 28334

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LABEL	1) GROUND STABILIZATION		
	SITE AREA DESCRIPTION	STABILIZE WITHIN THIS MANY CALENDAR DAYS AFTER CEASING LAND DISTURBANCE	TIME FRAME VARIATIONS
	• PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
	• HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
	• SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
	• SLOPES 3:1 TO 4:1	14 DAYS	- 7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH AND WITH SLOPES STEEPERTHAN 4:1 - 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND HQW ZONES - 10 DAYS FOR FALLS LAKE WATERSHED
	• ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	- 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND HQW ZONES - 10 DAYS FOR FALLS LAKE WATERSHED UNLESS THERE IS ZERO SLOPE.

SEE SHEET C-5.02 FOR STANDARD NPDES STABILIZATION DETAILS SHEET

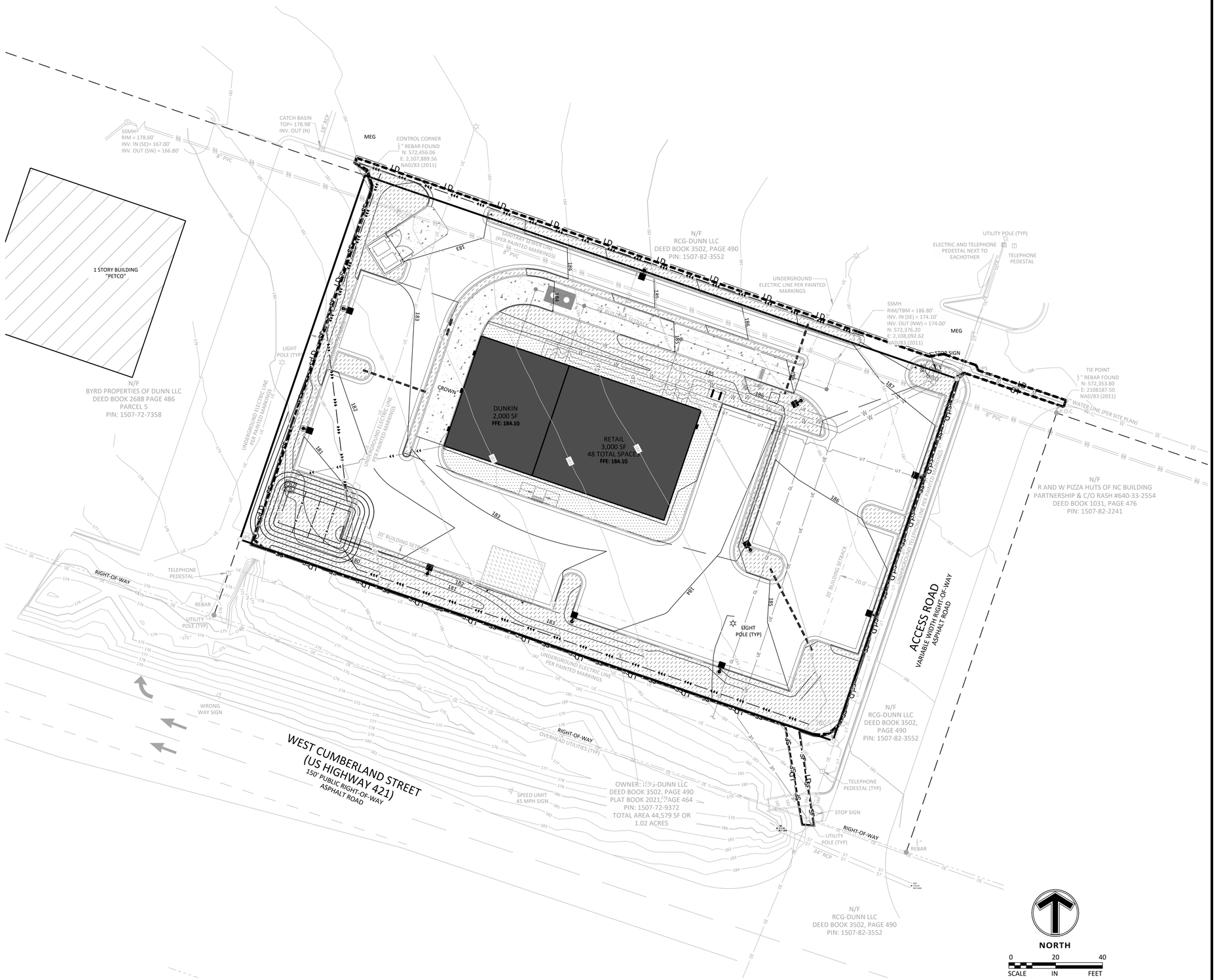
TOTAL DISTURBED AREA = 1.07 ACRES

LATITUDE: 35.9011002
LONGITUDE: -78.6802536

SOIL TYPE: NoC - Norfolk loamy sand, 92.4%
NoB - Norfolk loamy sand, 2.2%
Bb - Bibb soils. 5.3 %

WATERSHED: CAPE FEAR

MAINTENANCE CONTACT INFORMATION: TBD



Know what's below.
Call before you dig.
nc811.org or 1-800-632-4949

NO	DATE	BY	CKD	APPR	COMMENT
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NPDES STABILIZATION PLAN

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	**Stabilize within this many calendar days after ceasing land disturbance**	**Timeframe variations**
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone 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 on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand 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 in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

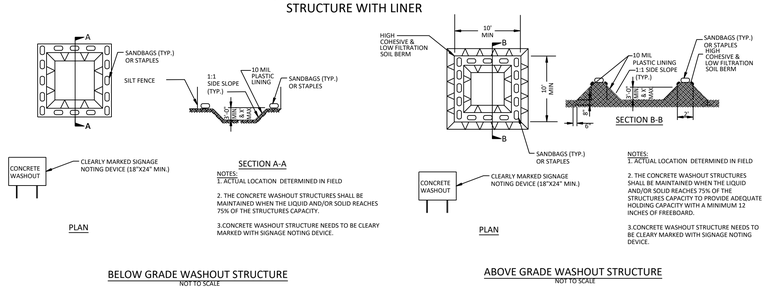
HERBICIDES, PESTICIDES AND RODENTICIDES

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 onsite.

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.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



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

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees 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 (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

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

NO	DATE	BY	CKD	APPR	COMMENT
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NOTE TO CONTRACTOR:
GENERAL CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES FOR VERIFICATION OF EXACT LOCATION AND DEPTH PRIOR TO ANY CONSTRUCTION.

UTILITY INFORMATION SHOWN IS A COMBINATION OF SURVEY AND COUNTY AS-BUILTS.

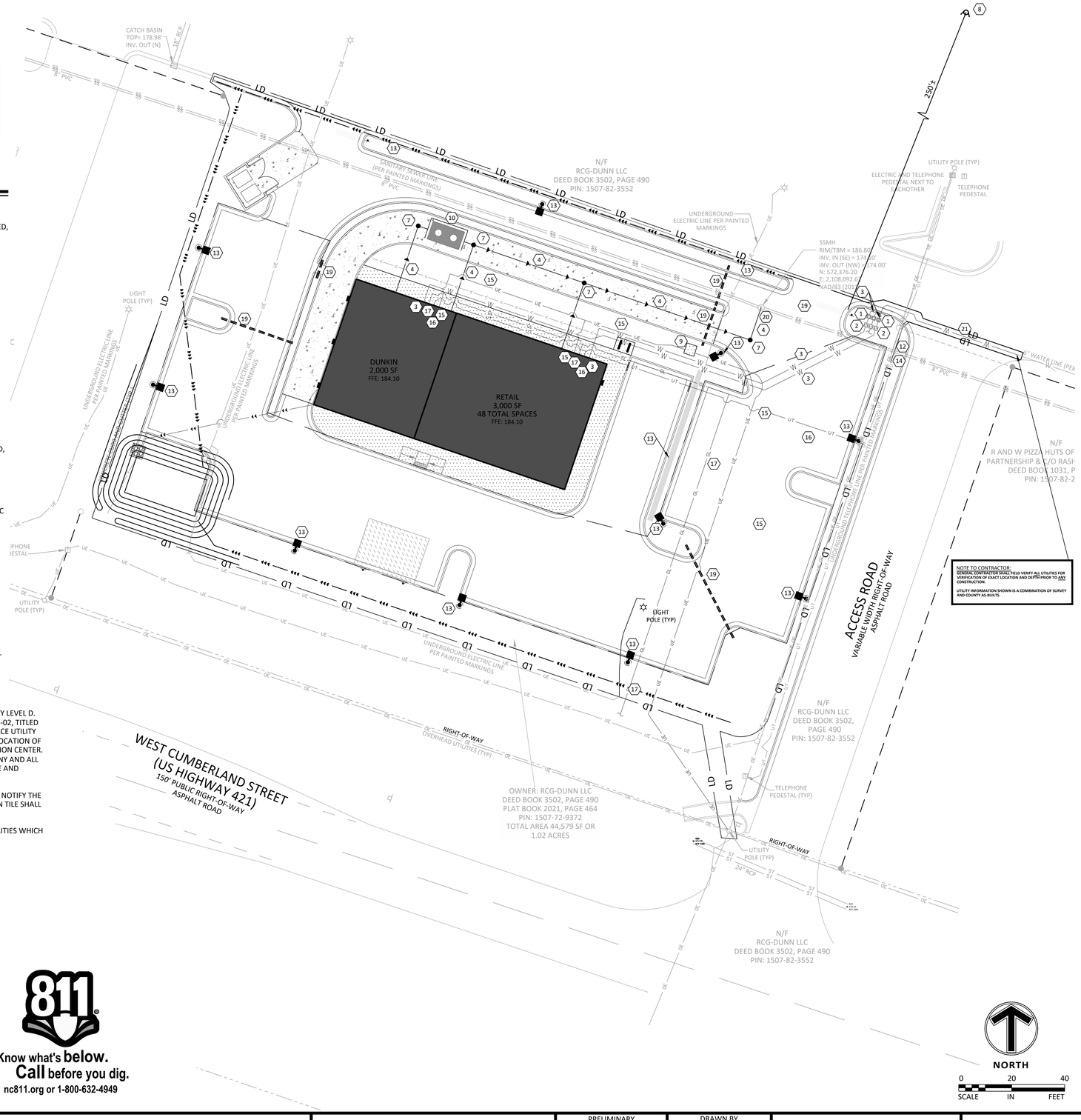
UTILITY KEY NOTES

1. 2" DOMESTIC WATER METER, CONTRACTOR SHALL COORDINATE WITH CITY.
2. 2" DOMESTIC REDUCED PRESSURE BACKFLOW PREVENTER IN ABOVE GROUND HEATED, INSULATED ENCLOSURE.
3. 2" DOMESTIC WATER SERVICE, CONTRACTOR SHALL COORDINATE WITH CITY.
4. 4" PVC SANITARY SEWER LINE @ 1/4" PER LINEAR FOOT SLOPE (MINIMUM), CONTRACTOR SHALL COORDINATE WITH CITY.
5. 8" SADDLE WITH 3" CORPORATION STOP, CONTRACTOR SHALL COORDINATE WITH CITY.
6. SANITARY SEWER CLEANOUT, SEE DETAIL SHEET.
7. TRAFFIC RATED SANITARY SEWER CLEANOUT, SEE DETAIL SHEET.
8. EXISTING FIRE HYDRANT.
9. TRANSFORMER PAD, CONTRATOR SHALL COORDINATE LOCATION AND SIZE WITH UTILITY COMPANY.
10. GREASE TRAP, DESIGN BY OTHERS.
11. 1" IRRIGATION WATER METER, CONTRACTOR SHALL COORDINATE WITH IRRIGATION CONTRACTOR.
12. 1" IRRIGATION REDUCED PRESSURE BACKFLOW PREVENTER IN ABOVE GRADE HEATED, INSULATED ENCLOSURE, CONTRACTOR SHALL COORDINATE WITH CITY.
13. POLE MOUNTED AREA LIGHT, SEE LIGHTING PLAN.
14. COORDINATE IRRIGATION CONNECTION WITH IRRIGATION CONTRACTOR.
15. UNDERGROUND ELECTRIC SERVICE, CONTRACTOR SHALL COORDINATE WITH ELECTRIC UTILITY.
16. UNDERGROUND TELEPHONE SERVICE, CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY.
17. GAS SERVICE, CONTRACTOR SHALL COORDINATE WITH GAS COMPANY.
18. INSTALL 2 PVC SLEEVES FOR ELECTRICAL SERVICE, CONTRACTOR SHALL COORDINATE WITH OWNER AND UTILITY COMPANY.
19. IRRIGATION SLEEVES PER UTILITY LEGEND.
20. CONNECT TO EXISTING SANITARY SEWER SERVICE PER CITY STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL FIELD VERIFY SIZE, LOCATION AND ELEVATION OF EXISTING SEWER SERVICE PRIOR TO ANY CONSTRUCTION TO ENSURE REQUIRED PIPE SLOPE, COVER AND CLEARANCES CAN BE ACHIEVD AND COORDINATE WITH CITY.
21. 3" DOMESTIC WATER SERVICE, CONTRACTOR SHALL COORDINATE WITH CITY.

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE NOTIFICATION CENTER. THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

IF THE CONTRACTOR ENCOUNTERS ANY DRAIN TILE WITHIN THE SITE, HE OR SHE SHALL NOTIFY THE ENGINEER WITH THE LOCATION, SIZE, INVERT AND IF THE TILE LINE IS ACTIVE. NO DRAIN TILE SHALL BE BACKFILLED WITHOUT APPROVAL FROM THE PROJECT ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



LEGEND

PROPOSED	EXISTING	
		SANITARY SEWER
		FORCEMAIN (SAN.)
		STORM SEWER
		DRAINTILE
		WATERMAIN
GL	GL	UNDERGROUND GAS LINE
UT	UT	UNDERGROUND TELEPHONE
UE	UE	UNDERGROUND ELECTRIC
		CONCRETE CURB
		EASEMENT LINE

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UTILITY CONSTRUCTION NOTES

1. UTILITY INFORMATION SHOWN HEREON WAS OBTAINED FROM THE BEST AVAILABLE SOURCE AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATIONS OF EXISTING UTILITIES AND IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITIES, EITHER PUBLIC OR PRIVATE, SHOWN HEREON OR NOT SHOWN HEREON. ANY REPAIRS SHALL BE DONE TO THE SATISFACTION OF THE APPROPRIATE UTILITY COMPANY.
2. THE GENERAL CONTRACTOR SHALL CONFIRM ALL NEW UTILITY TAP LOCATIONS WITH THE UTILITY OWNERS. ALL FEES SHALL BE THE RESPONSIBILITY OF DEVELOPER.
3. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE ACTUAL LOCATION AND AVAILABILITY OF ALL EXISTING AND PROPOSED UTILITIES IN THE FIELD PRIOR TO GROUND BREAKING.
4. NEW LOT LIGHT FOUNDATION BASES, CONDUIT AND WIRING ARE BY THE GENERAL CONTRACTOR. POLES, FIXTURES, ANCHOR BOLTS & HARDWARE SHALL BE COORDINATED WITH THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
5. ALL NEW LOT LIGHTS AND THE MAIN IDENTIFICATION SIGN SHALL HAVE A MINIMUM 10 FEET CLEARANCE FROM ALL OVERHEAD UTILITIES.
6. GENERAL CONTRACTOR IS RESPONSIBLE FOR PERMITS AND/OR APPROVALS NECESSARY FOR ANY WORK IN ROADWAY OR RIGHT-OF-WAY.
7. ALL TRENCH EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH TRENCH BACKFILL DETAIL SHOWN ON THESE PLANS.
8. MINIMUM COVER FOR CONDUITS SHALL BE 36" UNLESS OTHERWISE SHOWN OR NOTED ON THESE PLANS.
9. ALL MANHOLES, VALVES, AND MONUMENT FRAMES SHALL BE SET TO FINISH GRADE AFTER PAVING.
10. THE CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS. TRENCHES SHALL BE SHORED IN ACCORDANCE WITH OSHA.
11. THE MINIMUM SLOPE FOR SANITARY SEWER LINES SHALL BE AS FOLLOWS: 1) 1/4"/FT FOR 4" LINES AND 2) 1/8"/FT FOR 6" LINES. CLEANOUTS SHALL BE PLACED AT 75' INTERVALS.
12. ALL WATER LINES SHALL HAVE A FINAL COVER DEPTH OF 3'-0" IN NON-TRAFFIC AREAS AND 4'-0" MINIMUM IN TRAFFIC AREAS UNLESS SPECIFICALLY NOTED OTHERWISE.
13. ALL SEWER LINES SHALL HAVE A FINAL COVER DEPTH 4'-0" IN NON-TRAFFIC AREAS AND 5'-0" MINIMUM IN TRAFFIC AREAS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.
14. SANITARY SEWER SERVICES SHALL BE PVC SDR 35 TO R/W, THEN PVC SCH. 40 TO BUILDING. WATER SERVICE SHALL BE TYPE "K" COPPER.
15. CABLE TV SERVICE ROUTING IS NOT PART OF THIS PLAN, CONTRACTOR TO COORDINATE WITH CABLE COMPANY .
16. EXISTING MANHOLES SHOULD BE FIELD VERIFIED FOR RIMS AND INVERTS.
17. ALL WORK SHALL BE GOVERNED BY THE LATEST EDITIONS OF THE STATE MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, BUILDING CODE, ENERGY CONSERVATION, HANDICAP ACCESSIBILITY, NATIONAL ELECTRICAL CODES AND NATIONAL FIRE PROTECTION ASSOCIATION CODES AND AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION.
18. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
19. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS/METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
20. OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING 5 FEET IN DEPTH.
21. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
22. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED PRIOR APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO THE SUBSTITUTION OF ALTERNATE EQUIPMENT.
23. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.
24. ONLY SEWAGE NOT CONTAINING GREASE IS ALLOWED TO BYPASS THE GREASE TRAP.
25. ALL SANITARY SEWER SERVICES AND STORM DRAIN PIPING 8" IN DIAMETER OR SMALLER SHALL BE SCH. 40 PVC WITH ADHESIVE "WELDED JOINTS, UNLESS SPECIFIED OTHERWISE OR REQUIRED BY LOCAL GOVERNING MUNICIPALITY. MINIMUM SLOPES ON SANITARY SEWER SERVICES: 4" - 1/4"/FT, 6" - 1/8"/FT.
26. BELOW GRADE WATER SERVICE PIPING SHALL BE TYPE "K" HARD DRAWN COPPER TUBING WITH SILVER SOLDER JOINTS. SOLDERS CONTAINING LEAD SHALL NOT BE USED FOR ANY PURPOSE ON THIS PROJECT, WHERE PIPING IS REQUIRED TO RUN BELOW BUILDING SLAB, IT SHALL BE INSTALLED WITHOUT JOINTS BELOW SLAB.
27. WATER PIPING SHALL BE CONNECTED TO BUILDING STUBS, VERIFY LOCATIONS PRIOR TO BEGINNING WATER PIPE INSTALLATION.
28. WASTE PIPING SHALL BE CONNECTED TO BUILDING STUBS, VERIFY LOCATIONS AND INVERTS PRIOR TO BEGINNING ANY WASTE PIPE INSTALLATION.
29. CONTRACTOR SHALL NOTIFY NC ONE CALL AT 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENTLY.
30. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF DUNN PUBLIC UTILITIES AND CROSS CONNECTION CONTROL REGULATIONS AND STANDARDS.
31. SITE UTILITY CONTRACTOR TO PROVIDE WATER, SANITARY SEWER, AND ROOF DRAIN LEADERS TO WITHIN 5 FEET OF THE BUILDING. CONTRACTOR SHALL COORDINATE SITE PLAN CONNECTIONS WITH THE ARCHITECTURAL BUILDING PLANS.
32. SITE UTILITY CONTRACTOR TO PROVIDE WATER, SANITARY SEWER, AND ROOF DRAIN LEADERS TO WITHIN 5 FEET OF THE BUILDING. CONTRACTOR SHALL COORDINATE SITE PLAN CONNECTIONS WITH THE ARCHITECTURAL BUILDING PLANS.
33. SANITARY CLEANOUTS SHALL BE PLACED NO MORE THAN 75 FEET APART. CLEAN OUTS LOCATED IN PAVEMENT AREAS SHALL HAVE HEAVY DUTY TRAFFIC RATED CONSTRUCTION.
34. CONNECTION OF SANITARY SEWER SERVICE TO AN EXISTING MANHOLE SHALL COMPLY WITH THE CITY OF DUNN STANDARDS, INCLUDING: CORE DRILL FOR OPENING INTO MANHOLE AND INSTALL WITH FLEXIBLE BOOT. IF PAVEMENT CUT IS REQUIRED, CONTRACTOR SHALL PATCH PAVEMENT WITH A SECTION TO MATCH EXISTING PAVEMENT: 3" I-2, 8" ABC OR BETTER.
35. RELATION OF WATER MAINS TO SEWERS:
    A. LATERAL SEPARATION OF SEWER AND WATER MAINS: WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10 FOOT LATERAL SEPARATION, IN WHICH CASE:
    1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, OR
    2. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER LINE WITH THE WATER MAIN LOCATED AT ONE SIDE ON A BENCH OF UNDISTURBED EARTH, AND ABOVE THE TOP OF THE SEWER.
    B. CROSSING A WATER MAIN OVER A SEWER MAIN: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION - IN WHICH CASE BOTH THE WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
    C. CROSSING A WATER MAIN UNDER A SEWER MAIN: WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN BOTH THE WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
    D. CROSSING A SEWER LINE OVER OR UNDER A STORM DRAIN: WHENEVER IT IS NECESSARY FOR A SEWER LINE TO CROSS A STORM DRAIN PIPE, THE SEWER LINES SHALL BE LAID AT SUCH AN ELEVATION THAT THE OUTSIDE OF THE SEWER LINE NEAREST TO THE OUTSIDE OF THE STORM DRAIN PIPE SHALL MAINTAIN A 12 INCH CLEAR SEPARATION DISTANCES, OR ENCASED IN EITHER CONCRETE OR DUCTILE IRON PIPE FOR AT LEAST 5 FEET ON EITHER SIDE OF THE CROSSING.
36. UNDERGROUND CONDUITS TO SIGNS, LOT LIGHTS, ETC., SHALL BE PLACED IN GRASS OR LANDSCAPE AREAS WHENEVER POSSIBLE. THE LOCATION OF THE CONDUIT AS SHOWN ON THESE PLANS SHALL BE CONSIDERED TO BE SCHEMATIC WITH ACTUAL LOCATION TO BE VERIFIED BY THE GENERAL CONTRACTOR, PVC SCH. 40 SLEEVES SHALL BE INSTALLED FOR ALL CONDUIT CROSSING UNDER PAVED AREAS.
37. SEE ELECTRICAL SHEETS FOR SIZE OF CONDUIT AND WIRE ON ALL ELECTRICAL SERVICES. TRANSFORMER BY ELECTRIC COMPANY, GENERAL CONTRACTOR TO PROVIDE PAD. REFER TO ELECTRIC COMPANY SPECIFICATIONS FOR PAD CONSTRUCTION.

NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
2	07/15/2024	ELA	WBB		CITY OF DUNN COMMENTS #2
3	8/23/2024	ELA	WBB		CITY OF DUNN COMMENTS #3 & DEQ COMMENTS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 25614 07/17/2024 ENGINEER JOSHUA L. ATKINSON

WATER WORKS OPERATOR CERTIFICATION COMMISSION C-4993 WATER CARE WASTEWATER NORTH CAROLINA

PRELIMINARY	
DESIGN REVIEW	
PERMIT SUBMITTAL	
CONSTRUCTION DOCUMENTS	

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DESIGNED BY	NS
CHECKED BY	NS
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UTILITY PLAN

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DUNN, NORTH CAROLINA 28334

SHEET
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9 OF 15
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24.15 (LMS TECH) | KUI LONG | 9/5/2024 3:04:48 PM
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TURF NOTES

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

   *APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS)
   FERTILIZER - 1,000 LBS/ACRE - 10-10-10
   SUPERPHOSPHATE - 500 LBS/ACRE 20% ANALYSIS
   MULCH - 2 TONS/ACRE - SMALL GRAIN STRAW
   ANCHOR - ASPHALT EMULSION @ 300 GALS/ACRE

   SOD PREPARATION:
   FOLLOW PREPARATION AS DIRECTED FOR STEPS 1-5 ABOVE. IMMEDIATELY WATER SOD UPON INSTALLATION AND CONTINUE UNTIL ROOTS ARE ESTABLISHED.

10. CONTRACTOR SHALL WATER AND MAINTAIN ALL LAWN AREAS UNTIL AN ACCEPTABLE STAND OF GRASS HAS BEEN ESTABLISHED.
11. ONCE AN ACCEPTABLE STAND OF GRASS HAS BEEN ESTABLISHED, THE CONTRACTOR SHALL REPAIR ALL DAMAGED AREAS AND MONITOR THE LAWN AREAS UNTIL THE GRASS REACHES A HEIGHT OF 4 INCHES TALL.
12. AT THE TIME THE GRASS REACHES A HEIGHT OF 4 INCHES TALL, THE CONTRACTOR SHALL MOW THE GRASS TO THE HEIGHT OF 3 INCHES AND TURN OVER THE LAWN MAINTENANCE TO THE OWNER.
13. AN ACCEPTABLE STAND OF GRASS SHALL BE 92% COVERAGE OR BETTER.

LANDSCAPE NOTES

1. THE GENERAL CONTRACTOR SHALL LEAVE THIS SITE AT FINISHED GRADE. THE LANDSCAPE CONTRACTOR SHALL REVISE GRADES AT A MINIMUM TO ENSURE SMOOTH TRANSITIONS BETWEEN PLANTING BEDS AND LAWN AREAS.
2. PLANT GUARANTEE: ALL PLANTS SHALL BE GUARANTEED TO LIVE FOR TWELVE MONTHS. THE GUARANTEE SHALL COMMENCE UPON FINAL ACCEPTANCE OF THE PROJECT. IF ANY PLANTS ARE DEAD OR IN AN UNHEALTHY CONDITION BEFORE FINAL ACCEPTANCE, THE LANDSCAPE CONTRACTOR SHALL REPLACE THEM AT HIS EXPENSE. THIS REPLACEMENT SHALL NOT BE CONSIDERED A GUARANTEED REPLACEMENT.
3. ALL PLANTING SHALL BE PLACED WITHIN A MULCHED PLANTING BED. ALL STRAPPING AND THE TOP 2/3 OF WIRE BASKETS MUST BE CUT AWAY AND REMOVED FROM ROOT BALLS PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF BURLAP FROM ROOT BALL.
4. ALL LANDSCAPE WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY STANDARD DETAILS AND SPECIFICATIONS.
5. ALL AREAS NOT MULCHED SHALL BE SEEDED OR SODDED IN ACCORDANCE WITH THE AREA SPECIFIED ON PLANS WITH "REBEL II" HYBRID TALL FESCUE OR EQUIVALENT AS PRESCRIBED IN THE SEEDING SCHEDULE AS SHOWN ON THIS SHEET.
6. SITE LIGHTING SHALL NOT BE PLACED IN CONFLICT WITH PLANTED TREES.
7. TREE PROTECTION FENCING TO BE PROVIDED AROUND TREE PRESERVATION AREAS IN ACCORDANCE WITH CITY STANDARDS.
8. COORDINATE ALL WORK WITH SITE LAYOUT AND SITE GRADING, DRAINAGE & UTILITIES PLAN.
9. VERIFY LOCATION OF UTILITIES BEFORE PLANTING.
10. MULCH ALL AREAS, THAT ARE NOT SEEDED OR SODDED, WITH SHREDDED HARDWOOD MULCH TO A DEPTH OF 3"-4".
11. THE SELECTION AND INSTALLATION OF PLANTS AND PLANTING METHODS SHALL CONFORM WITH THE STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN OR THE CITY STANDARD DETAILS AND SPECIFICATIONS, WHICHEVER IS STRICTER.
12. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES. DRAWINGS SHALL RULE OVER PLANT LISTS.
13. SUBSTITUTIONS SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR APPROVAL, PRIOR TO INSTALLATION, SUBSTITUTIONS MAY REQUIRE ADDITIONAL APPROVAL BY THE GOVERNING JURISDICTION.
14. ALL LANDSCAPING SOIL AND FILL SHALL BE FREE FROM WEEDS, REFUSE, AND DEBRIS AT ALL TIMES.
15. TREES AND LARGE SHRUBS SHALL BE ADEQUATELY SUPPORTED, AS NECESSARY, USING STAKES AND GUYS. SUCH SUPPORTS SHALL BE DESIGNED SO AS TO PROTECT TREES AND SHRUBS FROM INJURY. TREES AND SHRUBS SHALL BE FASTENED TO THE SUPPORT WITH AN ACCEPTABLE COMMERCIAL TREE TIE OF PLASTIC OR HOSE COVERED WIRE.
16. THE MAXIMUM GROWTH HEIGHT OF ANY LANDSCAPING WITHIN THE SIGHT TRIANGLE SHALL BE THREE (3) FEET IN HEIGHT.

LANDSCAPE SUMMARY

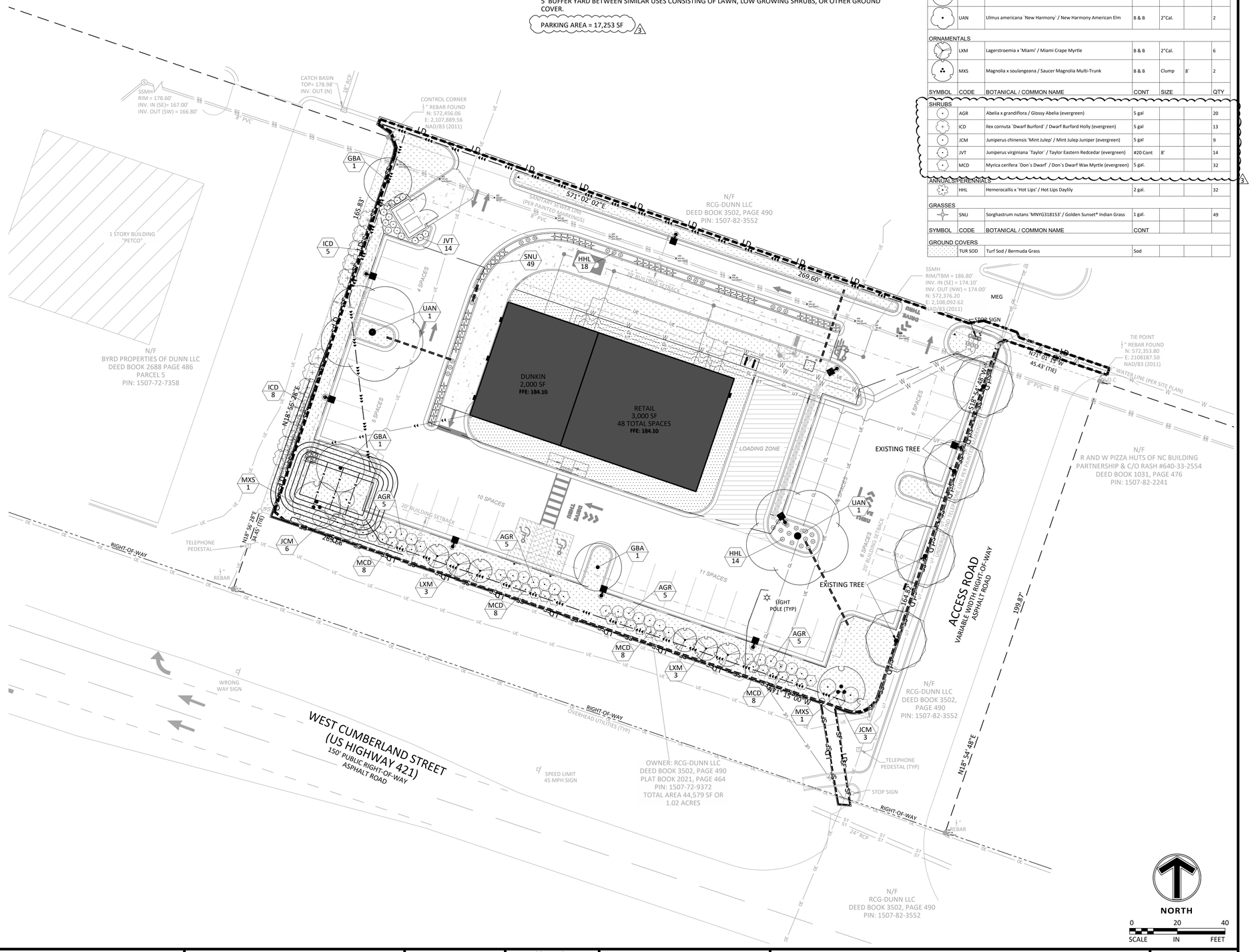
STREETYARD REQUIREMENTS (270 LF)
ONE (1) TREE AND 8 SHRUBS PER 40 LINEAR FEET: REQUIRED: 7 TREES; 54 SHRUBS
PROPOSED: 8 TREES; 56 SHRUBS

BUFFER YARDS (TYPE C)
5' BUFFER YARD BETWEEN SIMILAR USES CONSISTING OF LAWN, LOW GROWING SHRUBS, OR OTHER GROUND COVER.

PARKING AREA = 17,253 SF 3

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	CAL	HEIGHT	QTY
TREES						
	GBA	Ginkgo biloba 'Autumn Gold' / Autumn Gold Maidenhair Tree	B & B	2.5"Cal.		3
	UAN	Ulmus americana `New Harmony` / New Harmony American Elm	B & B	2"Cal.		2
ORNAMENTALS						
	LXM	Lagerstroemia x 'Miami' / Miami Crape Myrtle	B & B	2"Cal.		6
	MXS	Magnolia x soulangeana / Saucer Magnolia Multi-Trunk	B & B	Clump	8`	2
SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	SIZE		QTY
SHRUBS						
	AGR	Abelia x grandiflora / Glossy Abelia (evergreen)	5 gal			20
	ICD	Ilex cornuta `Dwarf Burford` / Dwarf Burford Holly (evergreen)	5 gal			13
	JCM	Juniperus chinensis 'Mint Julep' / Mint Julep Juniper (evergreen)	5 gal			9
	JVT	Juniperus virginiana `Taylor` / Taylor Eastern Redcedar (evergreen)	#20 Cont	8'		14
	MCD	Myrica cerifera `Don`s Dwarf` / Don`s Dwarf Wax Myrtle (evergreen)	5 gal.			32
ANNUALS/PERENNIALS						
	HHL	Hemerocallis x 'Hot Lips' / Hot Lips Daylily	2 gal.			32
GRASSES						
	SNU	Sorghastrum nutans 'MNYG318153' / Golden Sunset® Indian Grass	1 gal.			49
SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT			
GROUND COVERS						
	TUR SOD	Turf Sod / Bermuda Grass	Sod			



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NO	DATE	BY	CKD	APPR	COMMENT
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PRELIMINARY | DESIGN REVIEW | PERMIT SUBMITTAL | CONSTRUCTION DOCUMENTS

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LANDSCAPE PLAN

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24.15 (LWS TECH) | KUI LONG | 9/17/2024 9:42:36 AM
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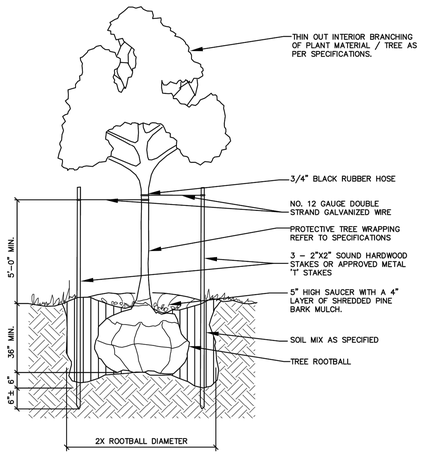

north carolina DUNN city of dunn

TYPICAL TREE PLANTING DETAIL

CITY of DUNN
NORTH CAROLINA
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Revised: 1/28/11
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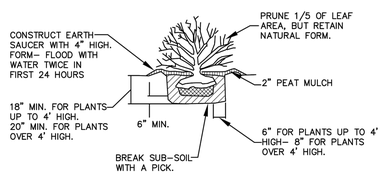

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TYPICAL SHRUB PLANTING DETAIL

CITY of DUNN
NORTH CAROLINA
Department of Public Works

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Scale: NTS
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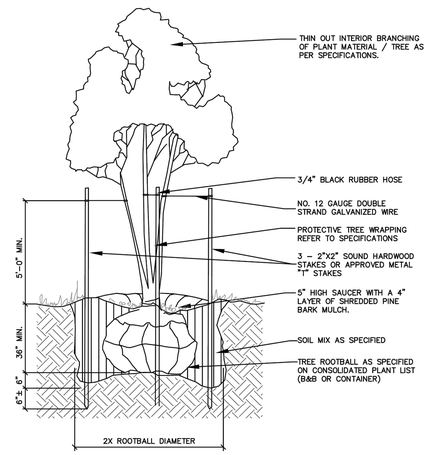
Sheet 1 of 1



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MULTIPLE TRUNK PLANTING DETAIL

CITY of DUNN
NORTH CAROLINA
Department of Public Works

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Sheet 1 of 1

LANDSCAPE NOTES:

1. THE LANDSCAPE CONTRACTOR SHALL MAKE HIMSELF AWARE OF EXISTING UTILITIES. HE SHALL NOTIFY THE RESPECTIVE PUBLIC UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
2. PLANTING BEDS AND PLANT LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. PLANTING BEDS SHALL BE CLEARED OF ALL GRASS AND WEEDS PRIOR TO INSTALLATION OF PLANTS, AND SHALL BE CULTIVATED AS SHOWN ON THE PLANTING DETAILS.
4. ALL DISTURBED AREAS TO BE SEEDED UNLESS OTHERWISE NOTED.
5. PLANTING BEDS SHALL HAVE 4" SHREDDED HARDWOOD BARK MULCH IN ENTIRE BED UNLESS OTHERWISE NOTED ON DRAWINGS.
6. ALL PLANTED AREAS SHALL BE TREATED WITH A WATER–SOLUBLE HERBICIDE FOR THE NON–SELECTIVE CONTROL OF ANNUAL AND PERENNIAL WEEDS PRIOR TO PLANTING.
7. ALL TREE AND SHRUB PITS SHALL BE BACKFILLED WITH A PLANTING SOIL MIXTURE OF 1 PART PEAT MOSS, 3 PARTS TOP SOIL AND 1 PART SAND, THOROUGHLY MIXED.
8. ALL PLANTED AREAS TO BE FERTILIZED WITH GRANULAR FERTILIZER. CONTRACTOR TO PROVIDE SOIL TEST AND FERTILIZER APPLICATION RATES IF REQUIRED FOR APPROVAL.
9. SPRAY TREES AND SHRUBS WITH AN ANTI–DESICCANT IF FOLIAGE IS PRESENT.
10. EVERGREEN TREES AND SHRUBS SHALL BE PLANTED THE SAME AS DECIDUOUS MATERIAL.
11. DO NOT PRUNE ANY MATERIAL UNTIL IT HAS BEEN VIEWED AND ACCEPTED BY THE OWNER OR OWNER'S RESPRESENTATIVE.
12. ALL PLANT MATERIAL TO BE NURSERY GROWN AND TO COMPLY WITH AMERICAN STANDARD FOR NURSERY STOCK ANSI–Z60–1–1986.
13. ALL MATERIALS INSPECTED AT THE SITE AND FOUND NOT TO BE ACCEPTABLE SHALL BE REMOVED FROM THE SITE ON THE DAY OF REJECTION.
14. IMMEDIATELY AFTER A TREE IS PLANTED, IT SHOULD BE SUPPORTED WITH STAKES AND GUY WIRES TO FIRMLY HOLD IT IN PLACE. (SEE DETAIL–THIS SHEET) REMOVE STAKES AND TIES AFTER ONE YEAR.
15. THE LOWER TRUNKS OF NEW TREES SHOULD BE WRAPPED WITH BURLAP OR PAPER TO PREVENT EVAPORATION AND SUN SCALD. THE WRAPPING SHALL REMAIN ON THE TREE AT LEAST ONE YEAR.
16. PLANT ALL TREES AT LEAST 3 1/2 FEET FROM THE END OF HEAD–ON PARKING SPACES TO PREVENT DAMAGE FROM CAR OVERHANG.

north carolina DUNN city of dunn

LANDSCAPING NOTES

CITY of DUNN
NORTH CAROLINA
Department of Public Works

Revised: 1/28/11
Scale: NTS
900.04
Sheet 1 of 1

NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
2	07/15/2024	ELA	WBB		CITY OF DUNN COMMENTS #2
3	8/23/2024	ELA	WBB		CITY OF DUNN COMMENTS #3 & DEQ COMMENTS

PRELIMINARY
DESIGN REVIEW
PERMIT SUBMITTAL
CONSTRUCTION DOCUMENTS

DRAWN BY STH
DESIGNED BY NS
CHECKED BY NS
PROJECT NO.

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LANDSCAPE DETAILS

DUNKIN
DUN-2302
2320 WEST CUMBERLAND ROAD
DUNN, NORTH CAROLINA 28334

SHEET
C7.02
11 OF 15
REV.

10000 ALLIANCE RD. CINCINNATI, OHIO 45242 USA
(513) 793-3200 * FAX (513) 793-6023

LIGHTING PROPOSAL LO-160331-1

DUNKIN DONUTS
2200 WEST CUMBERLAND STREET
DUNN, NC

BY:RNK/JMK	DATE:06/06/24	REV:7/26/24	SHEET 1 OF 1

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL CALCS AT GRADE	Illuminance	Fc	1.18	10.1	0.0	N.A.	N.A.
PROPERTY LINE	Illuminance	Fc	0.27	0.8	0.0	N.A.	N.A.
INSIDE CURB	Illuminance	Fc	3.66	8.7	0.6	6.10	14.50

Luminaire Schedule										
Symbol	Qty	Label	Arrangement	Description	Mounting Height	LLD	LLF	Arr. Lum. Lumens	Arr. Watts	BUG Rating
	7	A	SINGLE	SLM-LED-18L-SIL-FT-50-70CRI-IL-SINGLE	20' POLE + 2' BASE	1.000	1.000	12043	135	B1-U0-G2
	1	B	D180°	SLM-LED-18L-SIL-FT-50-70CRI-D180	20' POLE + 2' BASE	1.000	1.000	37808	270	B3-U0-G3

LIGHTS SUPPLIED BY LSI INDUSTRIES
CONTACT: Tom Fulton
PH: 704-640-6134
E-MAIL: t.fulton@shannonandassoc.com

NORTH
SCALE 0 20 40 IN FEET

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nc811.org or 1-800-632-4949

PHOTOMETRIC EVALUATION
NOT FOR CONSTRUCTION

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with The Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
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PROFESSIONAL ENGINEER SEAL 29414 09/17/2024 BRIAN L. ATKINSON

C-4993

PRELIMINARY
DESIGN REVIEW
PERMIT SUBMITTAL
CONSTRUCTION DOCUMENTS

DRAWN BY STH
DESIGNED BY NS
CHECKED BY NS
PROJECT NO.

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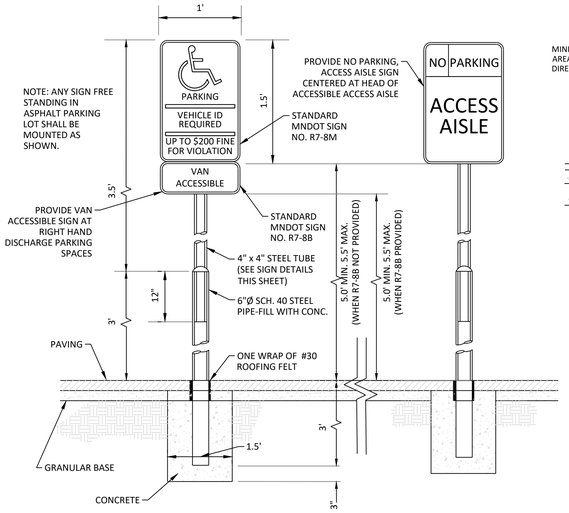
LIGHTING PLAN

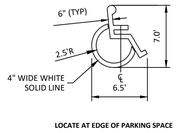
DUNKIN
DUN-2302
2320 WEST CUMBERLAND ROAD
DUNN, NORTH CAROLINA 28334

SHEET
C8.01
12 OF 15
REV.

24.15 (LMS TECH) | KUI LONG | 9/5/2024 2:51:08 PM
X:\DUN - DUNKIN DONUTS\2302 - DUNN, NC\CAD\SHEETS\DUN2302-C-8.01-LIGHTING-NC.DWG C8.01 LIGHTING PLAN

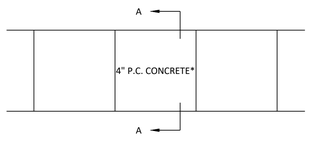


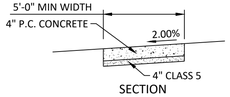
ACCESSIBLE PARKING SIGN
N.T.S.



LOCATE AT EDGE OF PARKING SPACE

ACCESSIBLE PARKING SYMBOL
N.T.S.





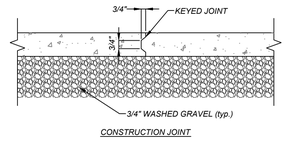
SECTION
A-A

GENERAL NOTES FOR CONCRETE CONSTRUCTION:

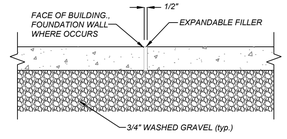
1. THE CONCRETE SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF MN/DOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION".
2. SIDEWALK CONTROL JOINTS SHALL BE LOCATED AT 5 FEET ON CENTER. SIDEWALK EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM OF 100 FEET ON CENTER, AND WHERE SIDEWALK ABUTS CURB, STRUCTURES, AND OTHER FIXED OBJECTS. SEAL ALL EXPANSION JOINTS. BROOM FINISH SHALL BE PERPENDICULAR TO THE LINE OF TRAFFIC.

*THE THICKNESS SHALL BE INCREASED TO A MINIMUM DEPTH OF __ INCHES AT DRIVEWAY CROSSINGS.

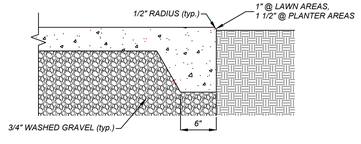
CONCRETE SIDEWALK
N.T.S.



CONSTRUCTION JOINT

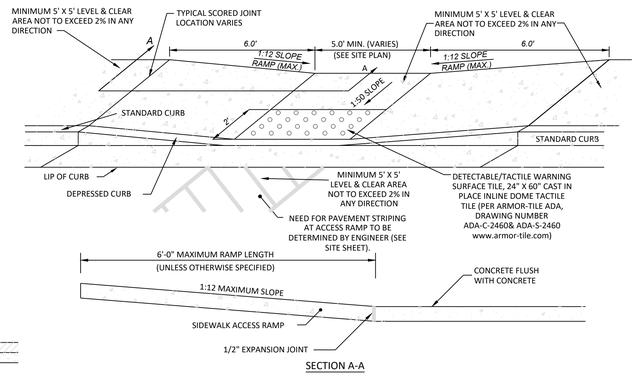


EXPANSION JOINT



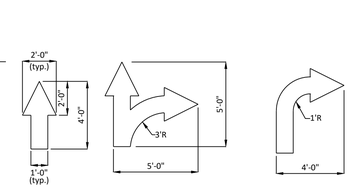
SLAB EDGE

CONCRETE SLAB DETAIL
N.T.S.



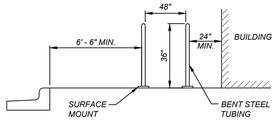
SECTION A-A

FLUSH HANDICAP RAMP DETAIL
N.T.S.



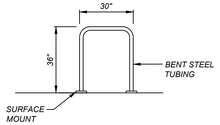
NOTE: ALL TRAFFIC ARROWS TO BE WHITE IN COLOR, MINIMUM FLOW RATE OF 100 SF PER GALLON (PAINT FEDERAL SPECIFICATION: TT-P-1952D)

TRAFFIC ARROWS
N.T.S.



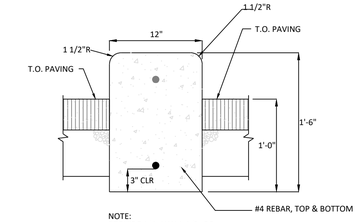
PROFILE

NOTE: TWO INVERTED "U" RACKS PLACED WITH THE BROAD SIDES PARALLEL TO EACH OTHER WILL ACCOMODATE 4 BICYCLES.



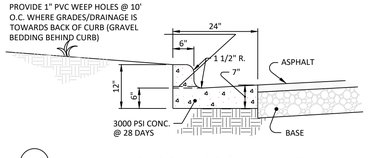
SECTION

BIKE RACK
N.T.S.

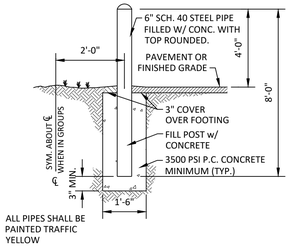


NOTE:
PROVIDE 1/4" W X 1-1/2" DP CONSTRUCTION JOINT 10'-0" O.C. MAX OR 5'-0" O.C. MIN.

MONOLITHIC CURB
N.T.S.

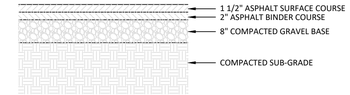


STANDARD CURB & GUTTER
N.T.S.

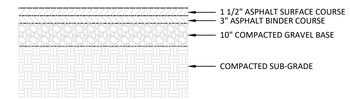


ALL PIPES SHALL BE PAINTED TRAFFIC YELLOW

CONCRETE PIPE BOLLARD
N.T.S.



PARKING STALL ASPHALT PAVEMENT

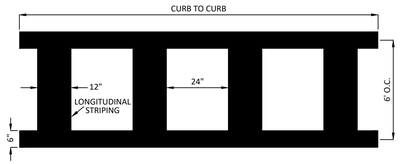


TRAFFIC AISLE ASPHALT PAVEMENT

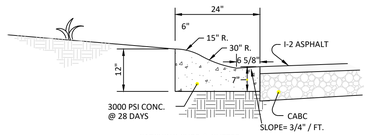
NOTES:
1. CONTRACTOR SHALL OBTAIN SOILS REPORT, IF AVAILABLE, AND ADJUST PAVEMENT SECTIONS ACCORDINGLY.
2. CONTRACTOR SHALL PLACE BINDER COURSE DURING CONSTRUCTION, THEN PLACE SURFACE COURSE AFTER BUILDING AND SITE CONSTRUCTION.
3. SUBGRADE COMPACTED TO A MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) REFER TO SOILS REPORT IN NOTE ABOVE.

ASPHALT PAVEMENT DETAIL
N.T.S.

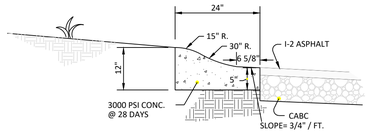
NOTE:
2.00% MAXIMUM CROSS SLOPE
5.00% MAXIMUM LONGITUDAL SLOPE



CROSSWALK
N.T.S.



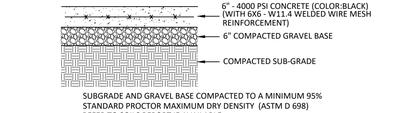
CATCHING CURB & GUTTER



SPILL CURB & GUTTER

NOTES:
1. SCORE CURB / VALLEY GUTTER AT 15' O.C.
2. PROVIDE 1/2" EXPANSION JOINTS AT 90' O.C.
3. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS. (A 15' SPACING WILL BE ALLOWED WHEN A MACHINE IS USED.)
4. FINISH ALL CONCRETE WITH CURING COMPOUND.

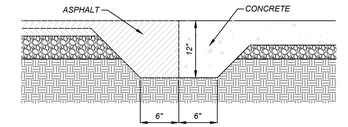
2'-0" ROLLED CURB & GUTTER
N.T.S.



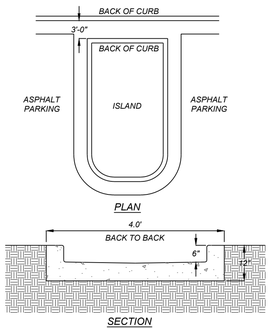
SUBGRADE AND GRAVEL BASE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) REFER TO SOILS REPORT IF AVAILABLE.

NOTES:
1. CONTRACTOR SHALL OBTAIN SOILS REPORT IF AVAILABLE, AND ADJUST PAVEMENT SECTIONS ACCORDINGLY.

CONCRETE PAVEMENT DETAIL
N.T.S.



ASPHALT / CONCRETE TRANSITION
N.T.S.



PLAN

SECTION

CONCRETE FLUME
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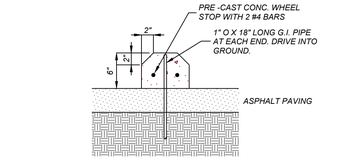
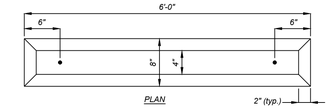
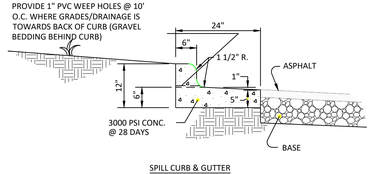


SECTION



PLAN

CONCRETE WHEEL STOP
N.T.S.



SPILL CURB & GUTTER

NOTES:
1. SCORE CURB / VALLEY GUTTER AT 15' O.C.
2. PROVIDE 1/2" EXPANSION JOINTS AT 90' O.C.
3. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS. (A 15' SPACING WILL BE ALLOWED WHEN A MACHINE IS USED.)
4. FINISH ALL CONCRETE WITH CURING COMPOUND.

2'-0" STANDARD CURB & GUTTER
N.T.S.

NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
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3	8/23/2024	ELA	WBB		CITY OF DUNN COMMENTS #3 & DEQ COMMENTS

SEAL 28414 09/17/2024 WILLIAM L. ATKINSON

SAMBATEK INC. P-1 C-4993 RALEIGH, NORTH CAROLINA

PRELIMINARY | DESIGN REVIEW | PERMIT SUBMITTAL | CONSTRUCTION DOCUMENTS

DRAWN BY STH | DESIGNED BY NS | CHECKED BY NS | PROJECT NO.

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DETAILS

DUNKIN
DUN-2302
2320 WEST CUMBERLAND ROAD
DUNN, NORTH CAROLINA 28334

SHEET C9.01 13 OF 15 REV.

24.15 (LMS TECH) | KUI LONG | 8/9/2024 1:55:30 PM
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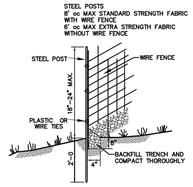
CONSTRUCTION SPECIFICATIONS

1. CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNETIC FILTER FABRICS.
2. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24" ABOVE THE GROUND SURFACE. (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.)
3. CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAP TO THE NEXT POST.
4. SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURLY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OR PLASTIC ZIP TIES SHOULD HAVE A MINIMUM 50 LB TENSILE STRENGTH.
5. WHEN A WIRE MESH SUPPORT FENCE IS USED, SPACE POSTS A MAXIMUM OF 8' APART. SUPPORT POSTS SHOULD BE DRIVEN SECURLY INTO THE GROUND A MINIMUM OF 24'.
6. EXTRA STRENGTH FILTER FABRIC WITH 6' POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE, SECURLY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 LB TENSILE STRENGTH.
7. EXCAVATE A TRENCH APPROXIMATELY 4" WIDE AND 8" DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
8. PLACE 12" OF THE FABRIC ALONG THE BOTTOM AND THE SIDE OF THE TRENCH.
9. BACKFILL THE TRENCH WITH SOIL PLACED OVER THE FILTER FABRIC AND COMPACT. THOROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SILT FENCE PERFORMANCE.
10. DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.



MAINTENANCE

1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

north carolina DUNN city of dunn

TEMPORARY SILT FENCE

CITY of DUNN
NORTH CAROLINA
Department of Public Works

Revised: 1/28/11
Scale: NTS
400.00
Sheet 1 of 1

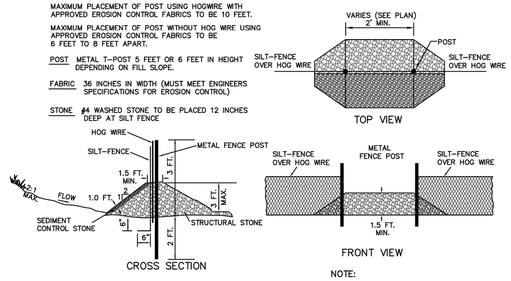
MAXIMUM PLACEMENT OF POST USING HOGWIRE WITH APPROVED EROSION CONTROL FABRICS TO BE 10 FEET.

MAXIMUM PLACEMENT OF POST WITHOUT HOG WIRE USING APPROVED EROSION CONTROL FABRICS TO BE 6 FEET TO 8 FEET APART.

POST METAL T-POST 5 FEET OR 6 FEET IN HEIGHT DEPENDING ON FILL SLOPE.

FABRIC 36 INCHES IN WIDTH (MUST MEET ENGINEERS SPECIFICATIONS FOR EROSION CONTROL)

STONE #4 WASHED STONE TO BE PLACED 12 INCHES DEEP AT SILT FENCE



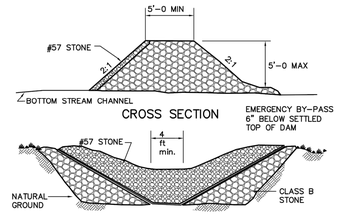
NOTE:
STRUCTURAL STONE SHALL BE (CLASS "B" STONE FOR EROSION CONTROL PURPOSES.

north carolina DUNN city of dunn

TEMPORARY STONE OUTLET
FOR SILT FENCE

CITY of DUNN
NORTH CAROLINA
Department of Public Works

Revised: 1/28/11
Scale: NTS
400.01
Sheet 1 of 1



USE 2 TO 15-INCH STONE (NCDOT CLASS A OR B EROSION CONTROL STONE). KEY THE STONE INTO THE DITCH BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18 INCHES TO AVOID WASHOUTS FROM OVERFLOW AROUND THE DAM.

CONSTRUCTION SPECIFICATIONS

1. PLACE STONE TO THE LINES AND DIMENSIONS SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
2. KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS.
3. EXTEND STONE AT LEAST 1.5 FT BEYOND THE DITCH BANKS TO KEEP OVERFLOW WATER FROM UNDERCUTTING THE DAM AS IT REENTERS THE CHANNEL.

MAINTENANCE

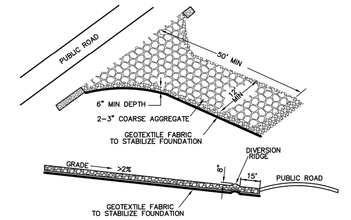
CHECK SEDIMENT BASINS AFTER EACH RAINFALL. REMOVE SEDIMENT AND RESTORE ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ABOUT ONE-HALF THE DESIGN VOLUME. SEDIMENT SHOULD BE PLACED ABOVE THE BASIN AND ADEQUATELY STABILIZED.
CHECK THE STRUCTURE FOR EROSION, PIPING, AND ROCK DISPLACEMENT WEEKLY AND AFTER EACH SIGNIFICANT (½ INCH OR GREATER) RAINSTORM AND REPAIR IMMEDIATELY.
REMOVE THE STRUCTURE AND ANY UNSTABLE SEDIMENT IMMEDIATELY AFTER THE CONSTRUCTION SITE HAS BEEN PERMANENTLY STABILIZED. SMOOTH THE BASIN SITE TO BLEND WITH THE SURROUNDING AREA AND STABILIZE. ALL WATER AND SEDIMENT SHOULD BE REMOVED FROM THE BASIN PRIOR TO DAM REMOVAL. SEDIMENT SHOULD BE PLACED IN DESIGNATED DISPOSAL AREAS AND NOT ALLOWED TO FLOW INTO STREAMS OR DRAINAGE WAYS DURING STRUCTURE REMOVAL.

north carolina DUNN city of dunn

TEMPORARY ROCK CHECK DAM

CITY of DUNN
NORTH CAROLINA
Department of Public Works

Revised: 1/28/11
Scale: NTS
400.06
Sheet 1 of 1



INSTALLATION:

1. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE AND CROWN FOUNDATION FOR POSITIVE DRAINAGE.
2. IF THE SLOPE TOWARDS THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6-8" HIGH WITH 3:1 SIDE SLOPES, ACROSS THE FOUNADTION APPROXIMATELY 15 FT FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
3. PLACE GEOTEXTILE FABRIC ON GRADED FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
4. PLACE STONE TO DIMENSIONS AND GRADE SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
5. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.
6. INSTALL PIPE UNDER PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.

MAINTENANCE:

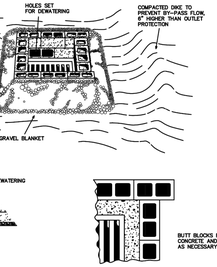
1. INSPECT ENTRANCE/EXIT PAD AND SEDIMENT DISPOSAL AREA AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (½" OR GREATER) RAIN EVENT OR HEAVY USE.
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD.
5. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.

north carolina DUNN city of dunn

CONSTRUCTION ENTRANCE
TEMPORARY

CITY of DUNN
NORTH CAROLINA
Department of Public Works

Revised: 1/28/11
Scale: NTS
400.07
Sheet 1 of 1



CONSTRUCTION SPECIFICATIONS

1. TO PREVENT BYPASS FLOW, TOP OF STRUCTURE SHOULD BE 6" MINIMUM BELOW GROUND ELEVATION ON THE DOWNSLOPE SIDE. OTHERWISE, CONSTRUCT A TEMPORARY DIKE TO PREVENT BYPASS FLOW. THE DIKE SHOULD BE COMPACTED AND AT LEAST 6" HIGHER THAN THE STRUCTURE AND STABILIZED APPROPRIATELY.
2. EXCAVATE INLET PROTECTION MAY BE USED WITH STRUCTURAL INLET PROTECTION TO PREVENT BYPASS FLOW, IMPROVE TRAP EFFICIENCY, AND PROVIDE SEDIMENT STORAGE CAPACITY.
3. EXCAVATE FOUNDATION FOR THE BLOCKS ON LEVEL GRADE AT LEAST 2" BELOW THE TOP OF THE STORM DRAIN.
4. PLACE BOTTOM ROW OF BLOCKS AGAINST EDGE OF STORM DRAIN. BUTT BLOCKS FIRMLY AGAINST CONCRETE AND LET BLOCKS EXTEND AS NECESSARY AT EDGES. STORM DRAIN PROVIDES LATERAL SUPPORT AND PREVENTS UNDERCUTTING. SUPPORT BLOCKS LATERALLY WITH 2"X4" WOOD STUDS THROUGH BLOCK OPENINGS IF NECESSARY. DO NOT USE MORTAR.
5. LAY ONE BLOCK ON ITS SIDE IN EACH SIDE OF THE BOTTOM ROW TO DRAIN THE POOL. PLACE WIRE SCREEN (HARDWARE CLOTH) OVER BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
6. PLACE GRAVEL AROUND BLOCKS ON A 2:1 SLOPE OR FLATTER,ALLOWING 2-4" BETWEEN TOP OR GRAVEL AND TOPS OF BLOCKS.

MAINTENANCE

1. INSPECT STRUCTURE AT LEAST ONCE WEEKLY AND AFTER EACH SIGNICANT (½" OR GREATER) RAINFALL EVENT. REMOVE SEDIMENT, AND MAKE NEEDED REPAIRS IMMEDIATELY.
2. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, INSPECTED, AND APPROVED, REMOVE ALL CONSTRUCTION MATERIAL AND ANY UNSTABLE SEDIMENT AND DISPOSE OF THEM PROPERLY. STABILIZE AS SHOWN ON PLAN.

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STORM DRAIN INLET PROTECTION
BLOCK & GRAVEL FILTER

CITY of DUNN
NORTH CAROLINA
Department of Public Works

Revised: 1/28/11
Scale: NTS
400.10
Sheet 1 of 1

TEMPORARY SEEDING for LATE WINTER/EARLY SPRING

SEEDING MIXTURE

Species	Rate (lb per acre)
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in mountains)	50

SEEDING DATES

Mountains – Above 2500 ft: Feb 15 – May 15
Below 2500 ft: Feb 1 – May 1
Piedmont – Jan 1 – May 1
Coastal – Dec 1 – Apr 15

SOIL AMENDMENTS

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

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

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

TEMPORARY SEEDING for SUMMER

SEEDING MIXTURE

Species	*Rate (lb per acre)*
German Millet	*40*

In the Piedmont and Mountain areas, 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 – Apr 15 –Aug 15

SOIL AMENDMENTS

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

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

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

TEMPORARY SEEDING for FALL

SEEDING MIXTURE

Species	Rate (lb per acre)
Rye (grain)	120

SEEDING DATES

Mountains –Aug 15 – Dec 15
Coastal & Piedmont – Aug 15 – Dec 30

SOIL AMENDMENTS

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

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.

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TEMPORARY SEEDING SPEC'S

CITY of DUNN
NORTH CAROLINA
Department of Public Works

Revised: 1/28/11
Scale: NTS
400.16
Sheet 1 of 1

PERMANENT SEEDING

DEFINITION

Seeding disturbed areas with perennial grasses and (or) legumes to provide a permanent vegetative cover to lessen runoff and soil erosion.

PURPOSE

To lessen soil erosion and permanently stabilize disturbed areas created by grading of construction sites.

CONDITIONS WHERE PRACTICE APPLIES

All bare soil areas on construction sites which are not covered by structures or other erosion control devices.

PREPARATION

Prepare seedbed by ripping, chiseling, harrowing or plowing to depth of six inches so as to produce a loose, friable surface. Remove all stones, boulders, stumps or debris from the surface which would prohibit germination or plant growth. Spread topsoil in a layer 3" – 6" depth.

Incorporate into the soil 800 to 1,000 pounds of 10-10-10 fertilizer plus 500 pounds of twenty percent (20%) superphosphate per acre and two tons of dolomitic lime per acre unless soil tests indicate that a lower rate of lime can be used.

Mulch after seeding with 1.5 tons of grain straw per acre and either crimp straw into soil or tack with liquid asphalt at 400 gallons per acre or emulsified asphalt at 300 gallons per acre.

PLANTS & MIXTURE	PLANTING RATE/ACRE	PLANTING DATES
Tall Fescue (Low Maintenance)	100–150 lbs.	Aug. 15 – Oct. 15 Feb. 15 – May 1
Tall fescue Waterways and Lawns (High Maint.)	200–250 lbs.	Aug. 15 – Oct. 15 Feb. 15 – May 1
Blend of two turf-type tall Fescues (90%) and two or more Improved Kentucky bluegrass varieties (10%) (high maintenance)	200–250 lbs.	Aug. 15 – Oct. 15 Feb. 15 – May 1
Tall Fescue *and* Kobe or Korean Lespedeza	100 lbs. *and* 20–25 lbs.	Feb. 15 – May 1 Aug. 15 – Oct. 15
Tall Fescue	50 lbs./acre	Nov. 1 – Feb. 1 (Unscarified)
Tall Fescue *and* German Millet or Sudangrass 2	60 lbs. *and* 30 lbs.	July and August
Tall Fescue *and* Ryegrain 2	70 lbs. *and* 25 lbs.	Nov. 1 – Jan. 30
Common Bermudograss	8 lbs. (hulled) 15–20 lbs. (unhulled)	April 15 – June 30 Feb. 1 – March 30

1 For spring seedings, use Scarified Lespedeza seed. For late fall and winter seedings, use unscarified seed.

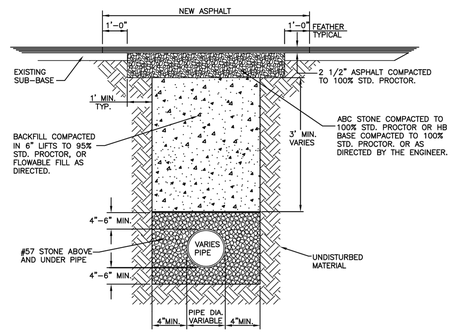
2 Annuals such as Millet, Sudangrass and Ryegrain must be kept at 10–12" maximum height.

north carolina DUNN city of dunn

PERMANENT SEEDING SPEC'S

CITY of DUNN
NORTH CAROLINA
Department of Public Works

Revised: 1/28/11
Scale: NTS
400.17
Sheet 1 of 1



FLOWABLE FILL TRENCH-CUT STREET, WATER, SEWER AND STORMWATER

north carolina DUNN city of dunn

TRENCH CUT INSTALLATION
FOR EXISTING ROADWAY

CITY of DUNN
NORTH CAROLINA
Department of Public Works

Revised: 1/28/11
Scale: NTS
500.03
Sheet 1 of 1

NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
2	07/15/2024	ELA	WBB		CITY OF DUNN COMMENTS #2
3	8/23/2024	ELA	WBB		CITY OF DUNN COMMENTS #3 & DEQ COMMENTS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 26413 09/17/2024 ERIKA L. ATKINSON

SAMBATEK INC. REGISTERED CORPORATION C-4993 NORTH CAROLINA

PRELIMINARY
DESIGN REVIEW
PERMIT SUBMITTAL
CONSTRUCTION DOCUMENTS

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DESIGNED BY NS
CHECKED BY NS
PROJECT NO.

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DETAILS

DUNKIN
DUN-2302
2320 WEST CUMBERLAND ROAD
DUNN, NORTH CAROLINA 28334

SHEET
C9.02
14 OF 15
REV.

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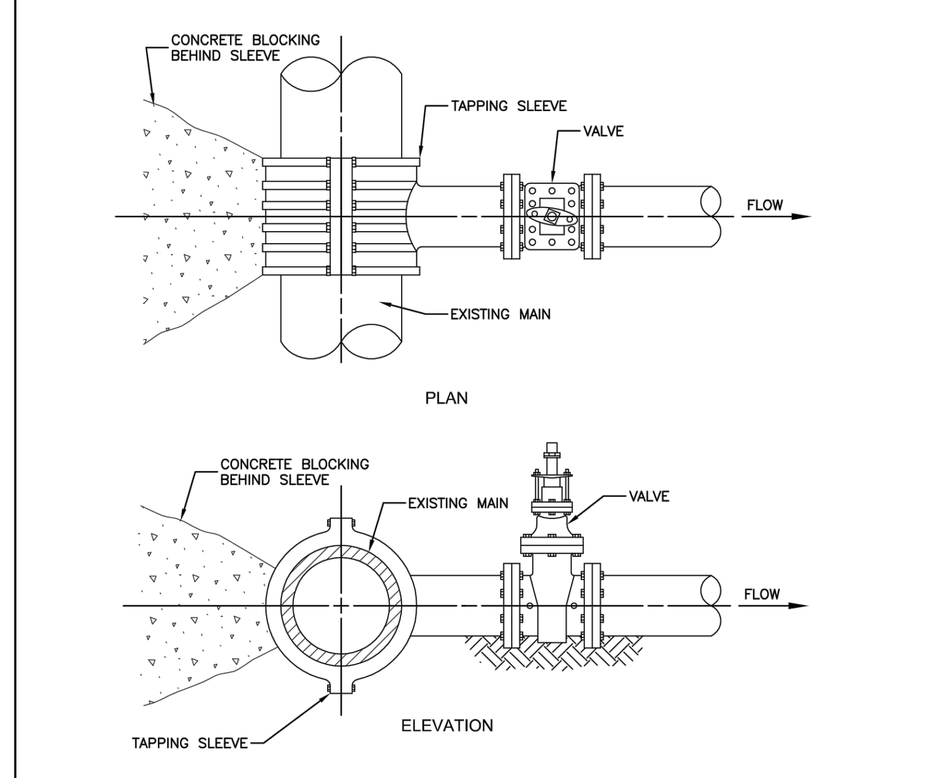
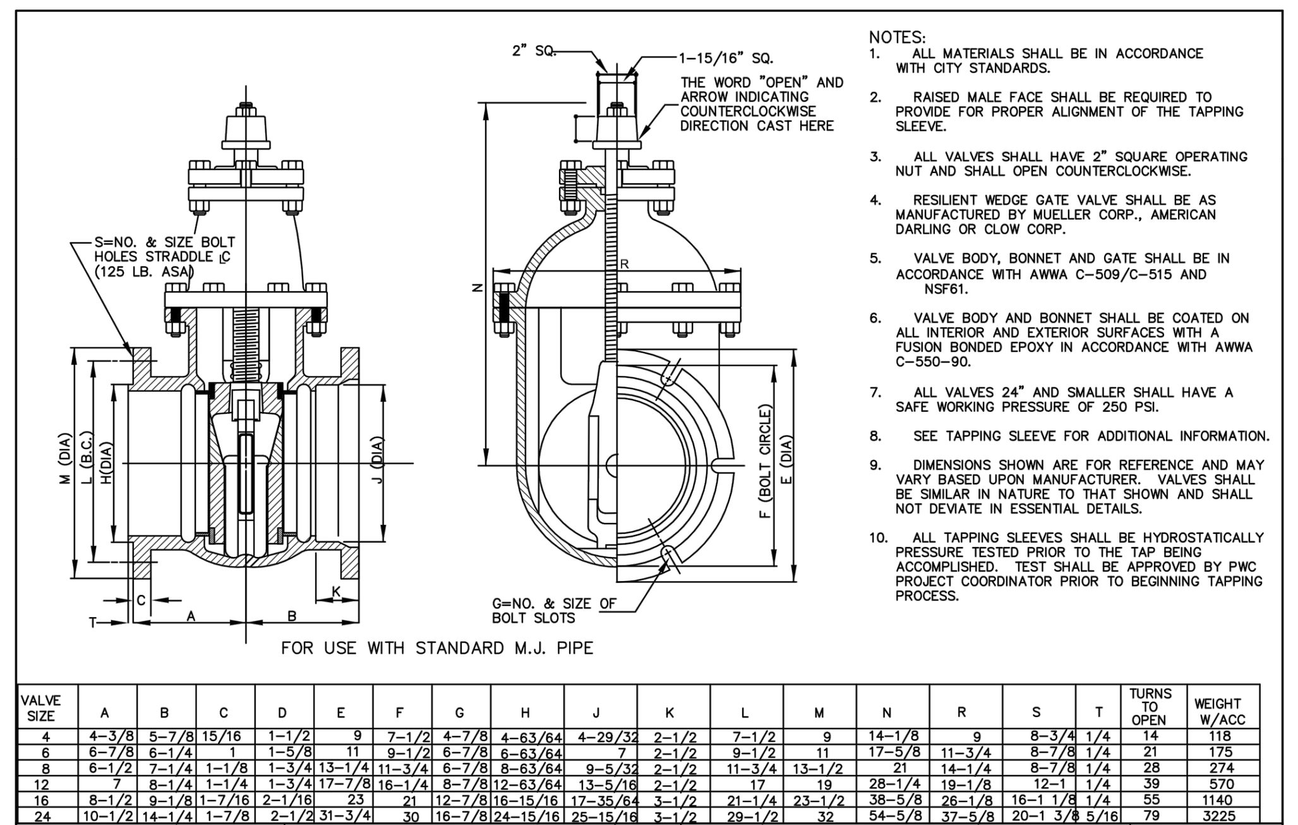
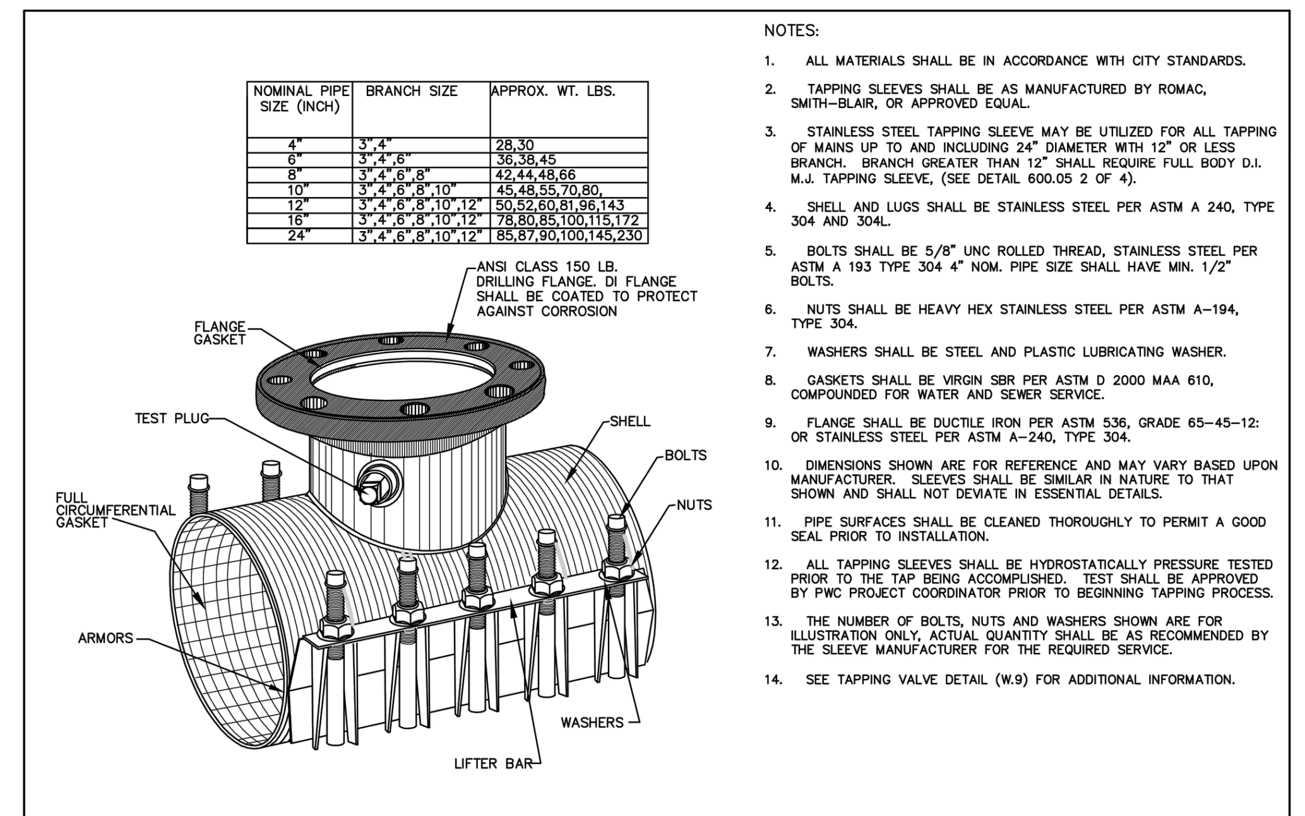


GENERAL NOTES:
1. 3000 P.S.I. SOLID CONCRETE BLOCKING BEHIND SLEEVE.
2. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
3. 12" X 12" AND 16" X 16" TAPPING SLEEVE IS NOT ALLOWED.

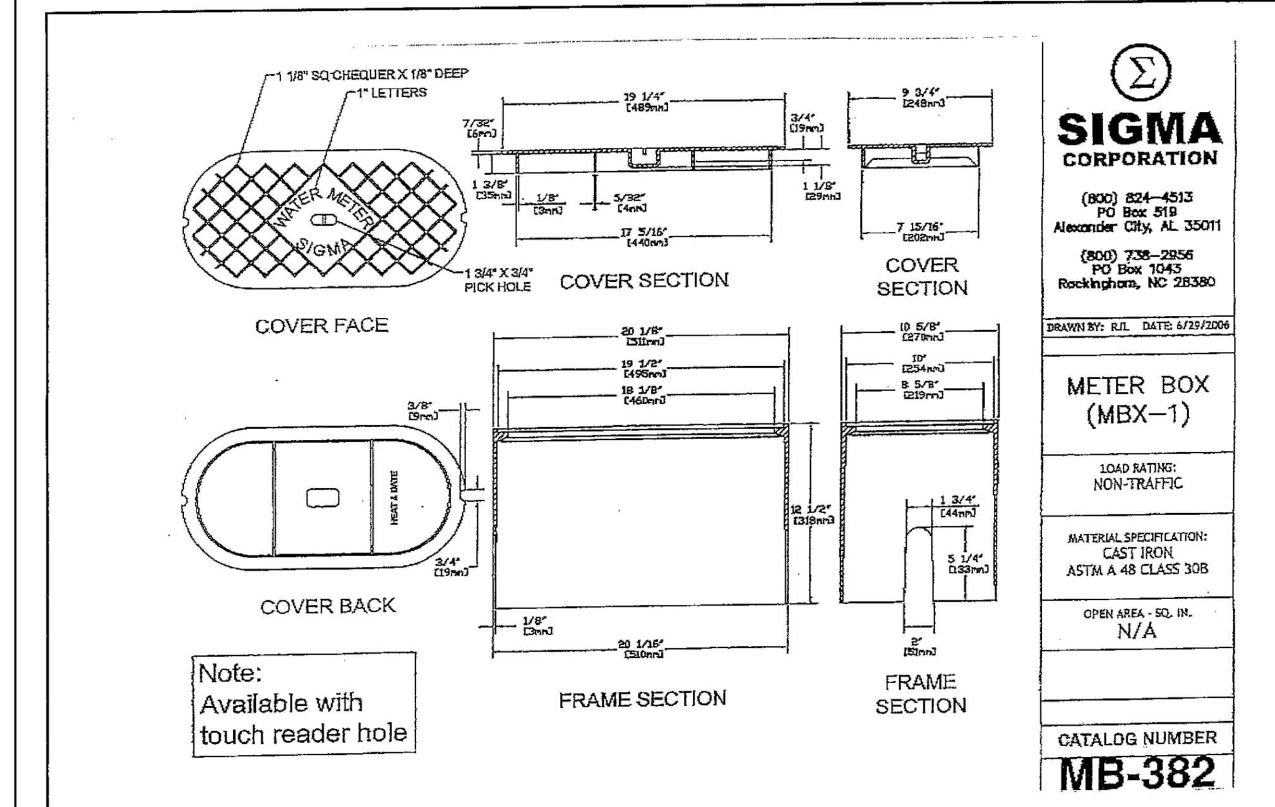
STANDARD TAPPING SLEEVE & VALVE ASSEMBLY — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.05 — Sheet 1 of 4



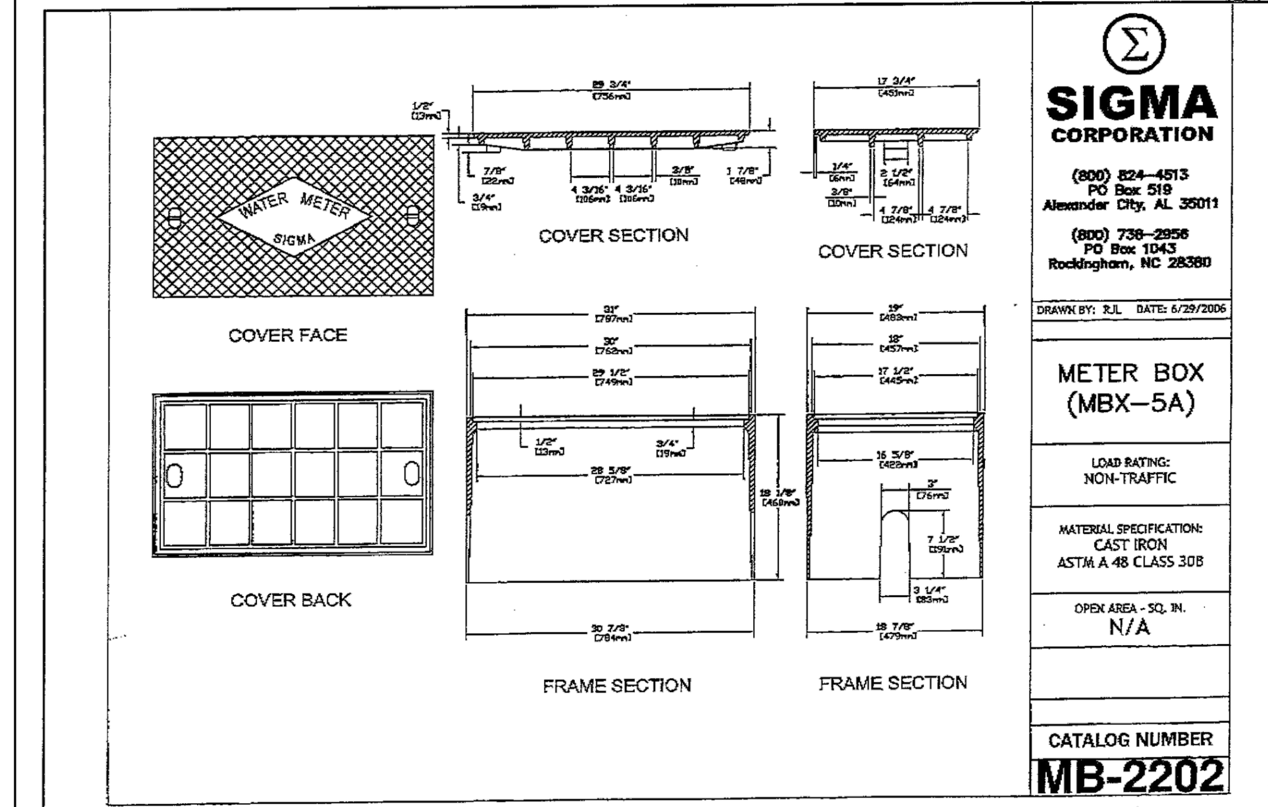
M.J. TAPPING VALVE — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.05 — Sheet 2 of 4



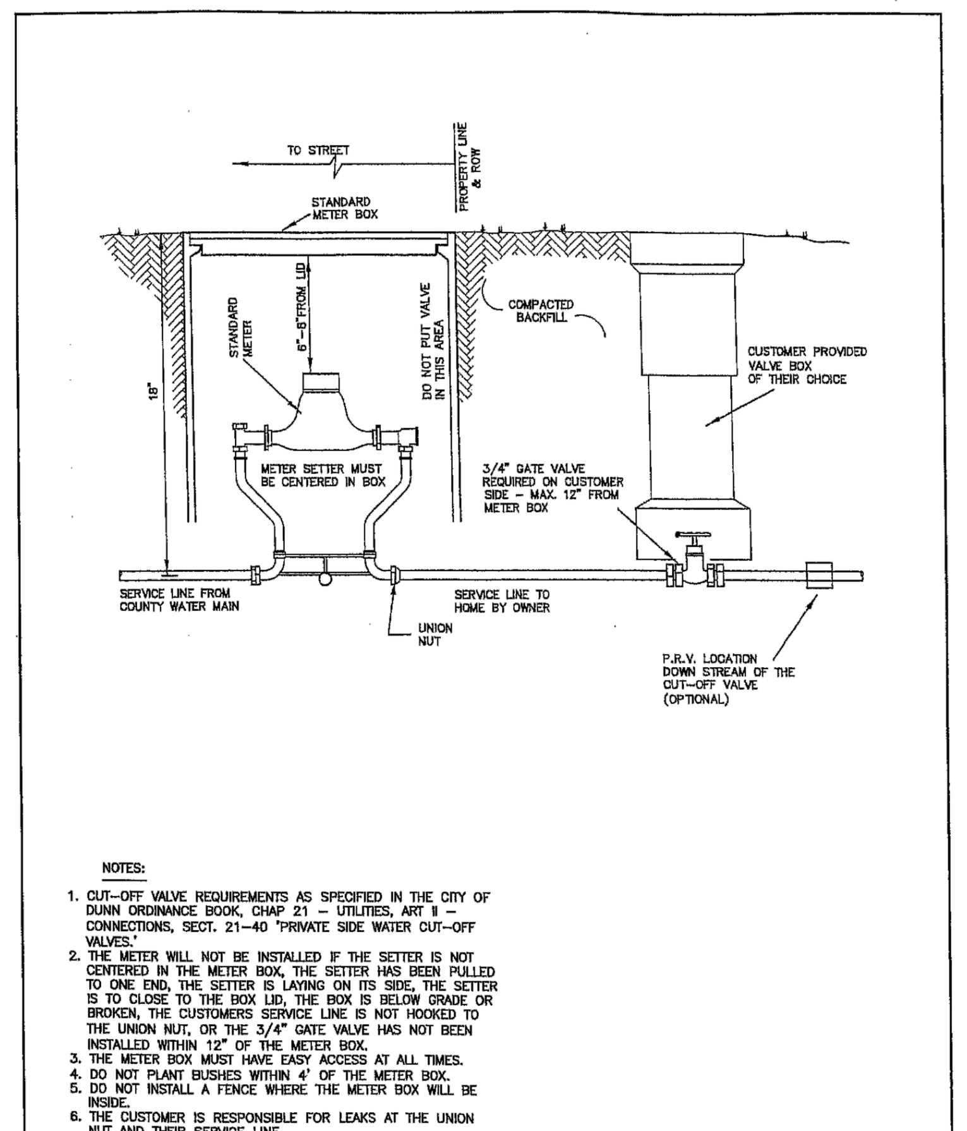
STAINLESS STEEL TAPPING VALVE — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.05 — Sheet 4 of 4



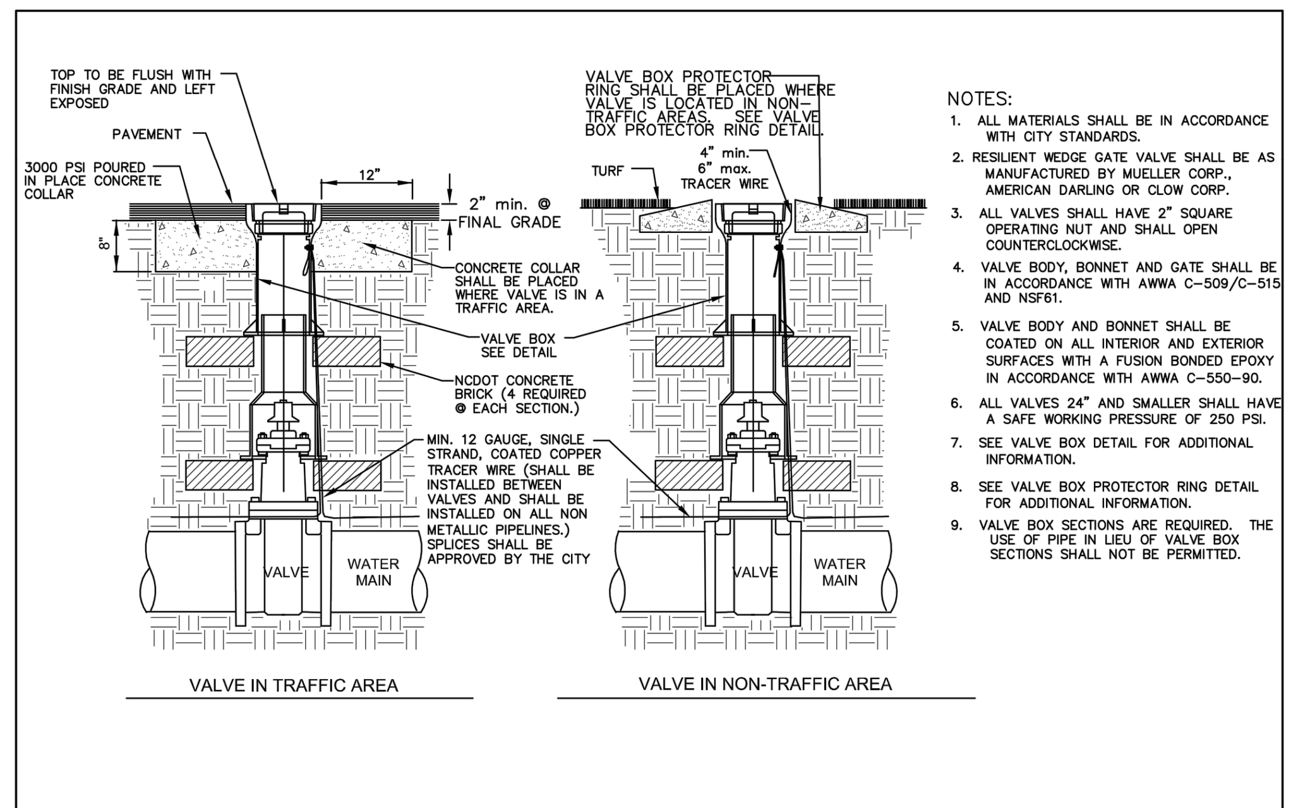
METER BOX for 3/4" & 1" WATER SERVICE — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.06 — Sheet 1 of 2



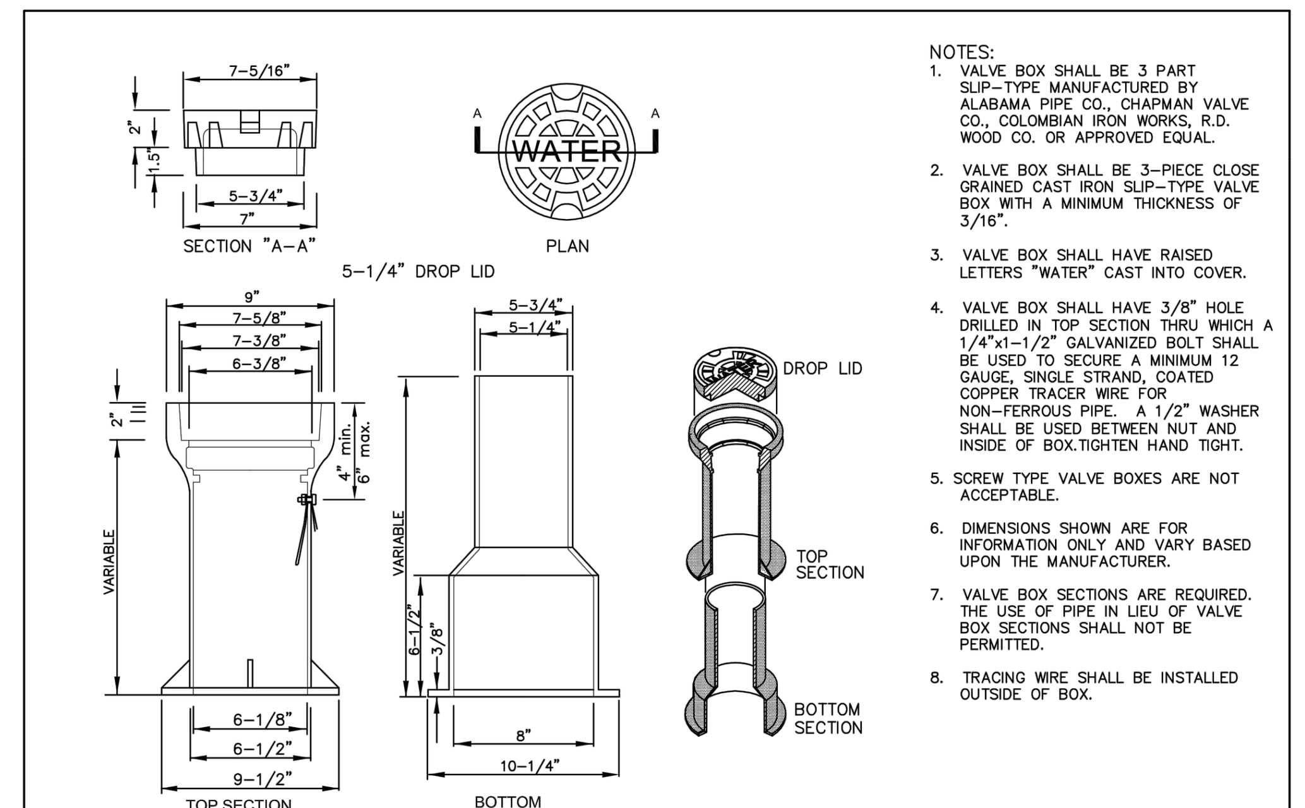
METER BOX for 1 1/2" & 2" WATER SERVICE — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.06 — Sheet 2 of 2



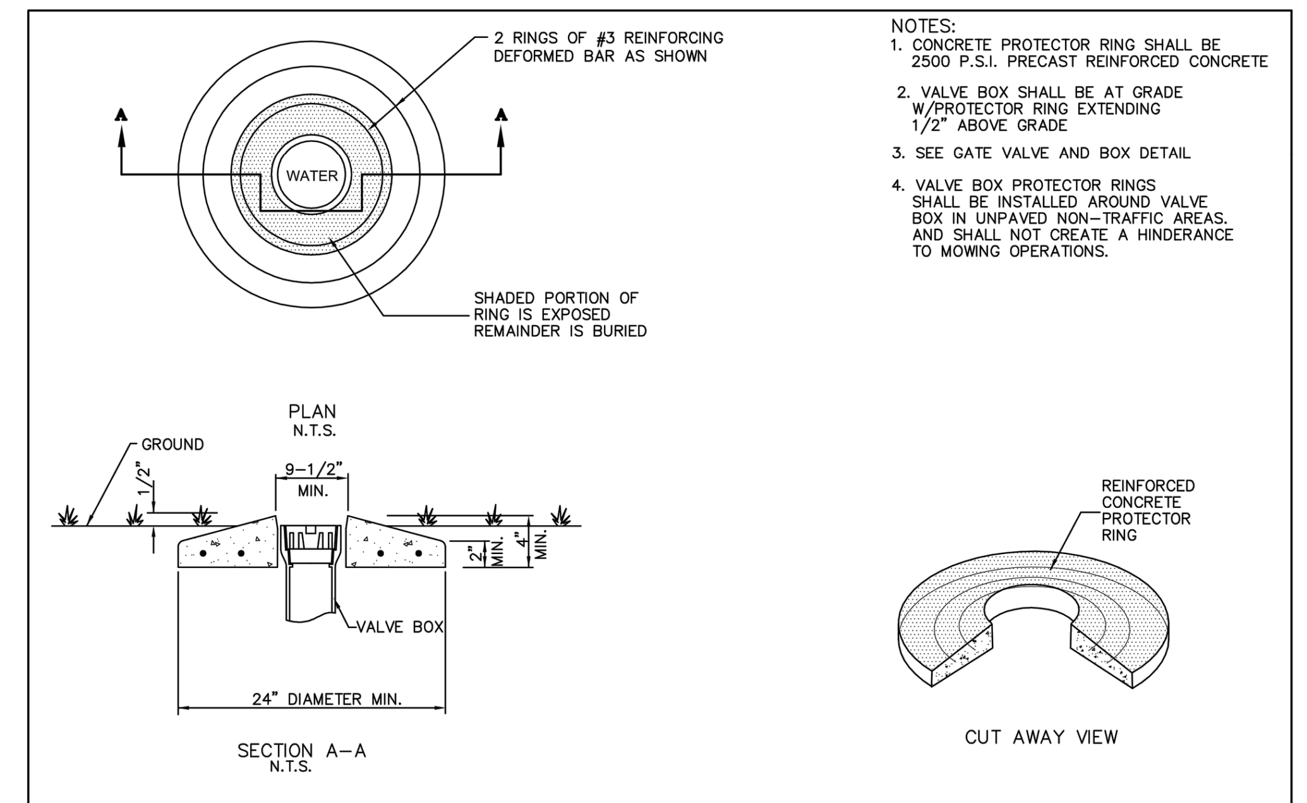
3/4" & 1" WATER CONNECTION WITH ANGLE DUAL CHECK VALVE — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.07 — Sheet 1 of 1



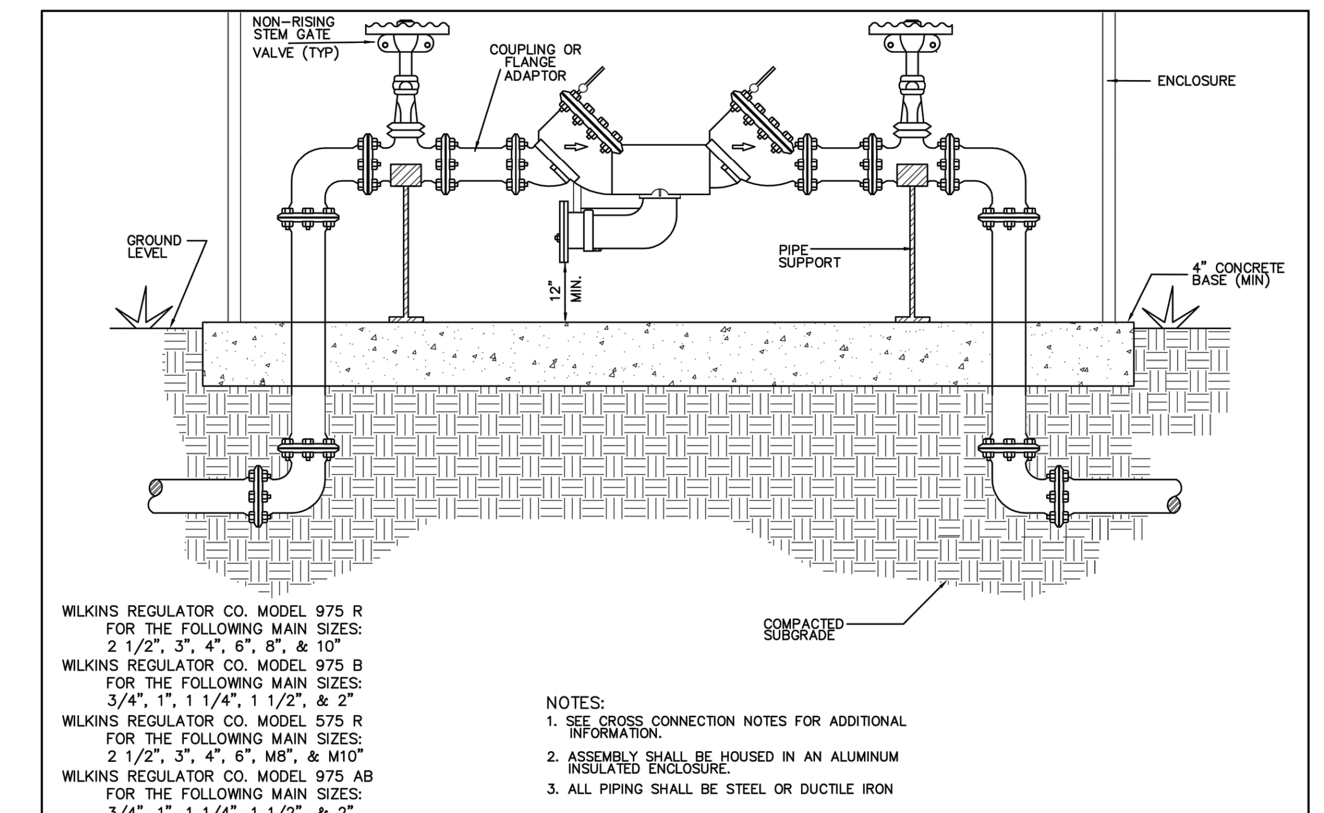
GATE VALVE — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.09 — Sheet 1 of 1



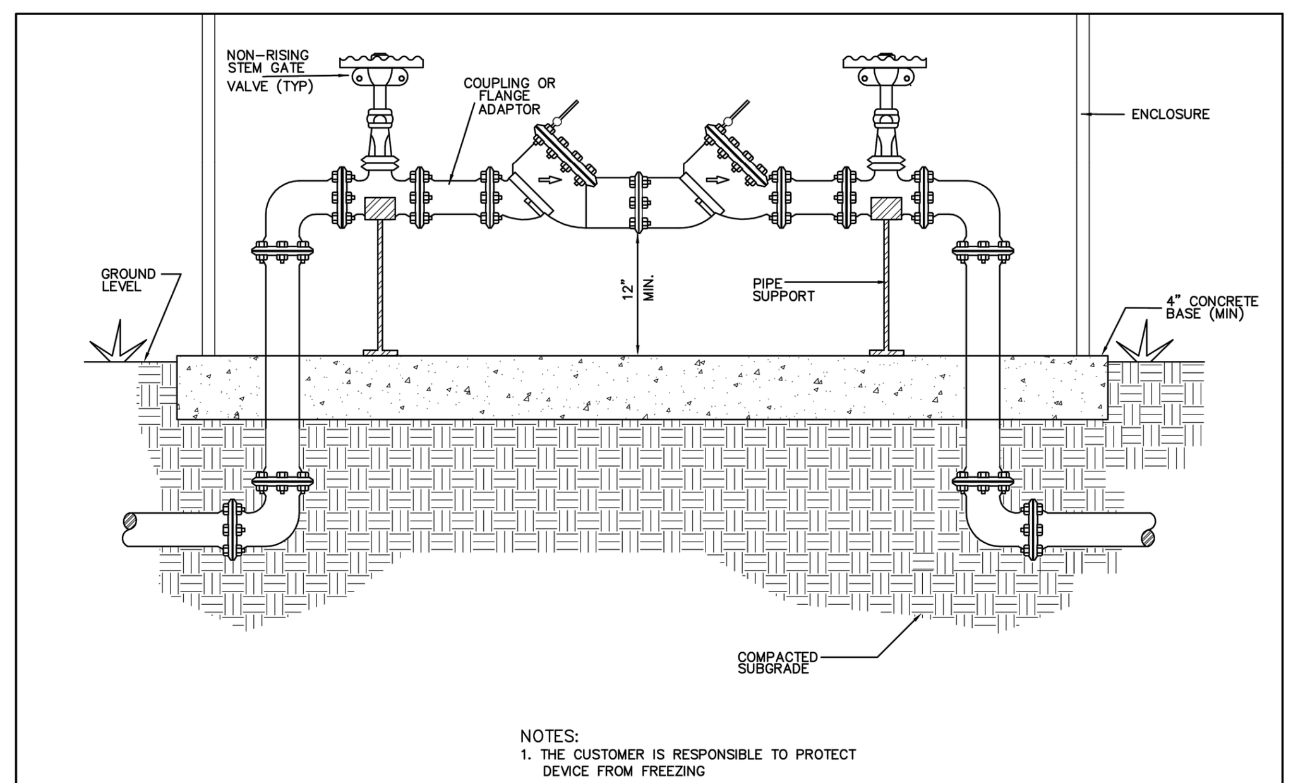
VALVE BOX — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.10 — Sheet 1 of 1



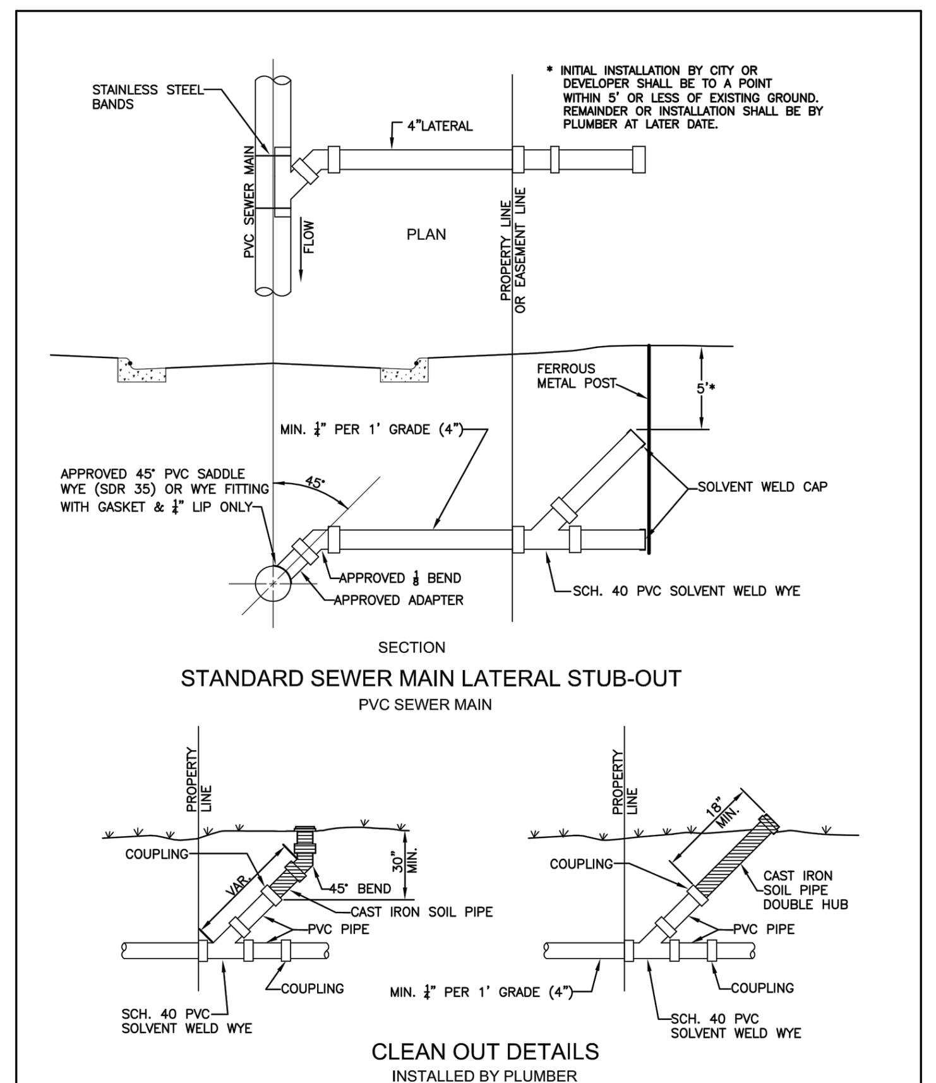
VALVE BOX PROTECTOR RING — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.11 — Sheet 1 of 1



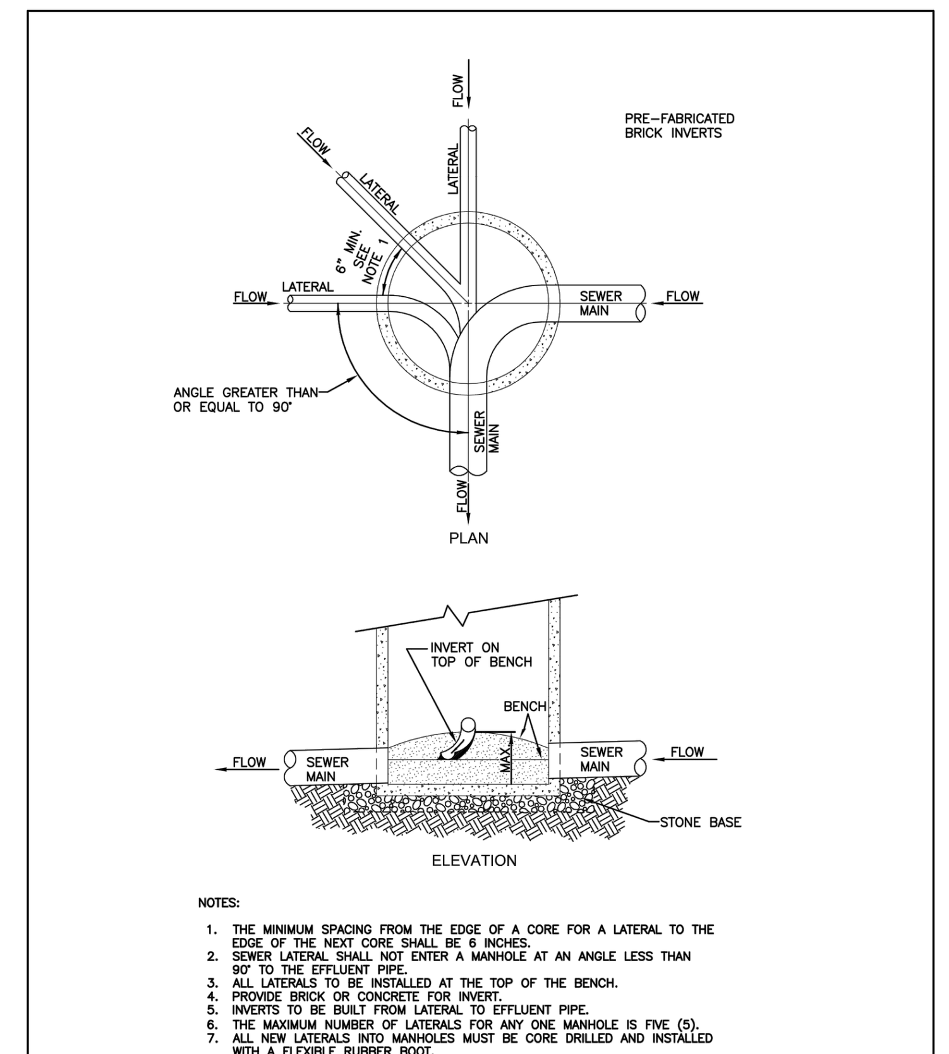
REDUCED PRESSURE PRINCIPLE ASSEMBLY ABOVE GROUND INSTALLATION ONLY — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.13 — Sheet 1 of 1



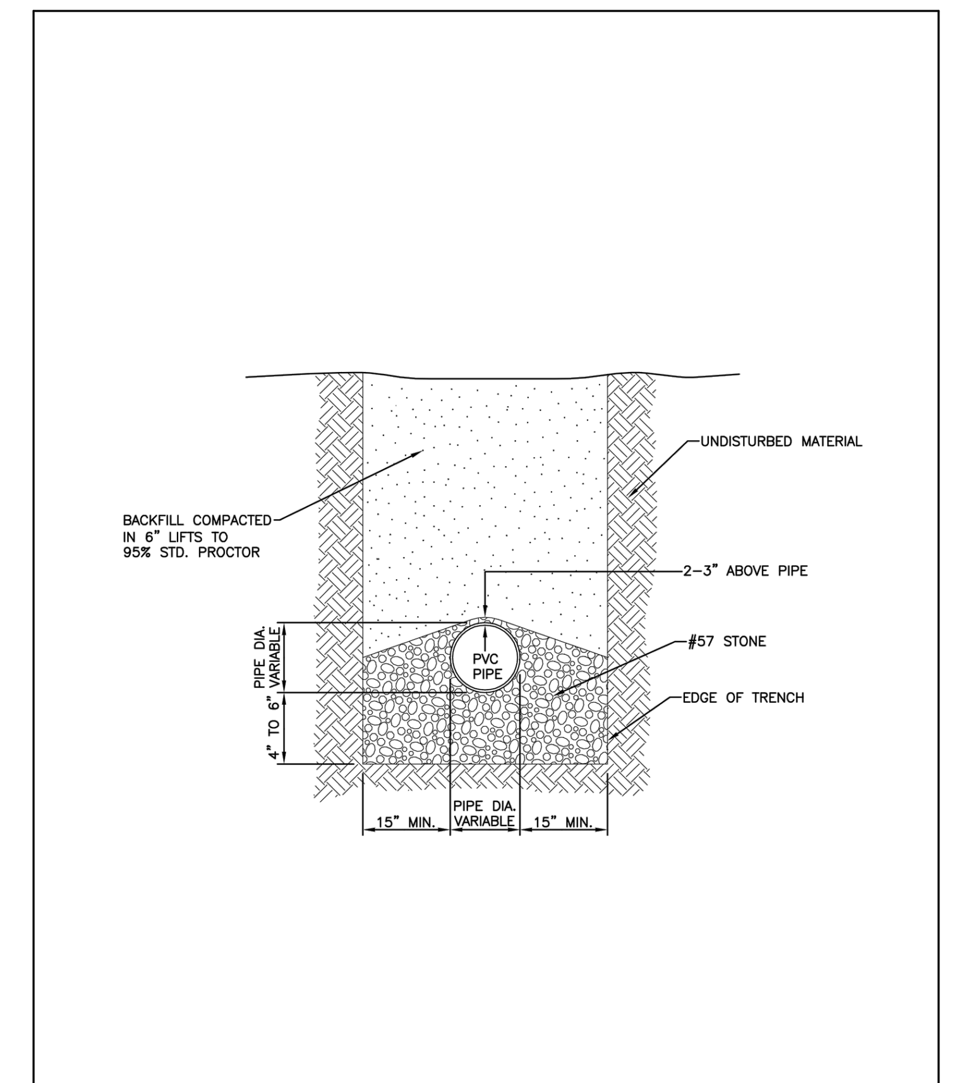
DOUBLE CHECK VALVE ASSEMBLY AND REDUCED PRESSURE ZONE BACKFLOW DEVICE – ABOVE GROUND INSTALLATION — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.21 — Sheet 1 of 1



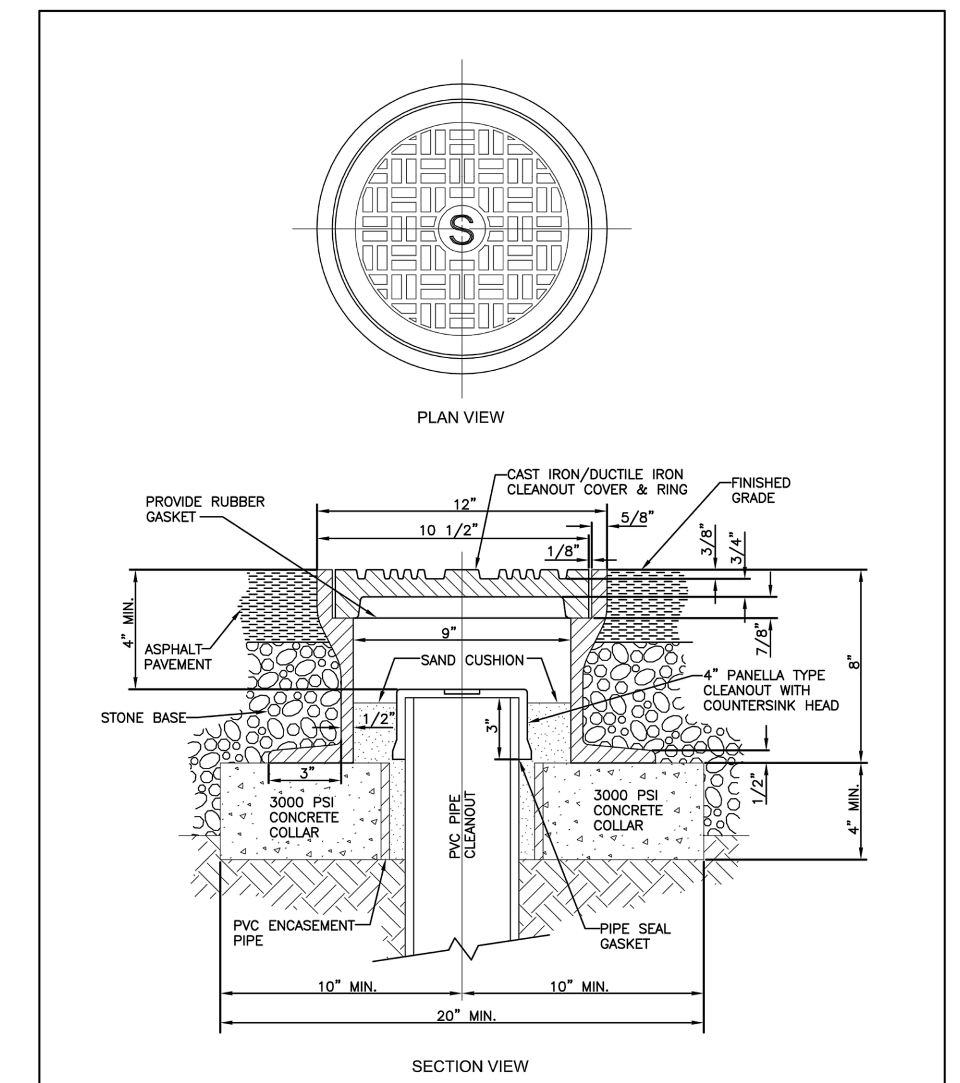
SANITARY SEWER LATERAL 4" SEWER LATERAL — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 700.10 — Sheet 1 of 1



SANITARY SEWER LATERAL AT MANHOLE — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 700.06 — Sheet 1 of 1



PVC PIPE BACKFILL — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 700.13 — Sheet 1 of 1



SANITARY SEWER TRAFFIC BEARING CLEANOUT — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 700.14 — Sheet 1 of 1

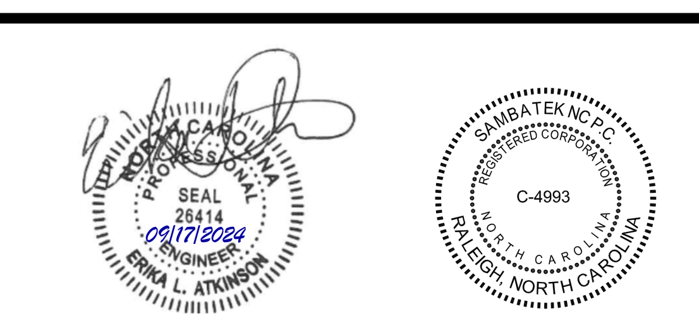
REQUIREMENTS FOR ABOVE GROUND INSTALLATIONS OF REDUCED PRESSURE PRINCIPLE AND DOUBLE CHECK VALVE ASSEMBLIES

1. THE BACKFLOW PREVENTOR MUST BE INSTALLED A MINIMUM DISTANCE OF 5 (5) FEET FROM THE METER SERVICE. INSTALLATION OF BACKFLOW PREVENTORS WITHIN THE RIGHT–OF–WAY WILL NOT BE APPROVED.
2. REDUCED PRESSURE PRINCIPLE ASSEMBLIES MUST BE INSTALLED IN A HORIZONTAL POSITION AND IN A LOCATION IN WHICH NO PORTION OF THE ASSEMBLY CAN BE SUBMERGED UNDER ANY CIRCUMSTANCES.
3. DOUBLE CHECK VALVE ASSEMBLIES MAY BE INSTALLED IN A VERTICAL POSITION PROVIDED IT CANNOT BE INSTALLED HORIZONTALLY AND THE FLOW OF WATER IS IN AN UPWARDS DIRECTION.
4. REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTORS MUST BE INSTALLED ABOVE GROUND.

   BACKFLOW PREVENTION ASSEMBLIES TWO AND ON–HALF (2 1/2) INCHES OR LARGER SHALL BE INSTALLED WITH DUCTILE IRON OR STEEL PIPE.
5. BACKFLOW PREVENTORS INSTALLED INSIDE MUST BE A MINIMUM DISTANCE OF TWELVE (12) INCHES ABOVE THE FLOOR, AND NO HIGHER THAN 4 (4) FEET ABOVE THE FLOOR, WITH ADEQUATE CLEARANCE AROUND THE BACKFLOW PREVENTOR FOR TESTING, AND/OR REPAIR. WHEREVER A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR IS INSTALLED INSIDE A BUILDING, AN AIR GAP DRAIN LARGE ENOUGH TO CARRY OFF THE DISCHARGE OF WATER FROM THE RELIEF VALVE SHALL BE INSTALLED.
6. BACKFLOW PREVENTION ASSEMBLIES INSTALLED OUTSIDE, ABOVE GROUND MUST BE PROTECTED FROM FREEZING. THE BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED A MINIMUM DISTANCE OF TWELVE (12) INCHES ABOVE GROUND, AND NO HIGHER THAN FOUR (4) FEET ABOVE GROUND. LANDSCAPING IS ALLOWED AROUND THE BACKFLOW PREVENTOR, BUT MUST NOT INTERFERE WITH THE REQUIRED ANNUAL TESTING AND/OR REPAIR.
7. SHOULD YOU HAVE ANY QUESTIONS CONCERNING THE REQUIREMENTS LISTED ABOVE CONTACT PUBLIC WORKS CROSS CONNECTION COORDINATOR, AT (910)890–5709, TO ASSIST YOU TO INSURE PROPER INSTALLATION.

BACKFLOW PREVENTION NOTES — CITY of DUNN, NORTH CAROLINA, Department of Public Works — Revised: 1/28/11 — Scale: NTS — 600.12 — Sheet 1 of 1

NO	DATE	BY	CKD	APPR	COMMENT
1	06/13/2024	ELA	WBB		UPDATE AS PER DUNN COMMENTS, ADD EROSION CONTROL TO DEQ
2	07/15/2024	ELA	WBB		CITY OF DUNN COMMENTS #2
3	8/23/2024	ELA	WBB		CITY OF DUNN COMMENTS #3 & DEQ COMMENTS



PRELIMINARY	DRAWN BY STH
DESIGN REVIEW	DESIGNED BY NS
PERMIT SUBMITTAL	CHECKED BY NS
CONSTRUCTION DOCUMENTS	PROJECT NO.

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DUN-2302
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DUNN, NORTH CAROLINA 28334

SHEET C9.03
15 OF 15
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