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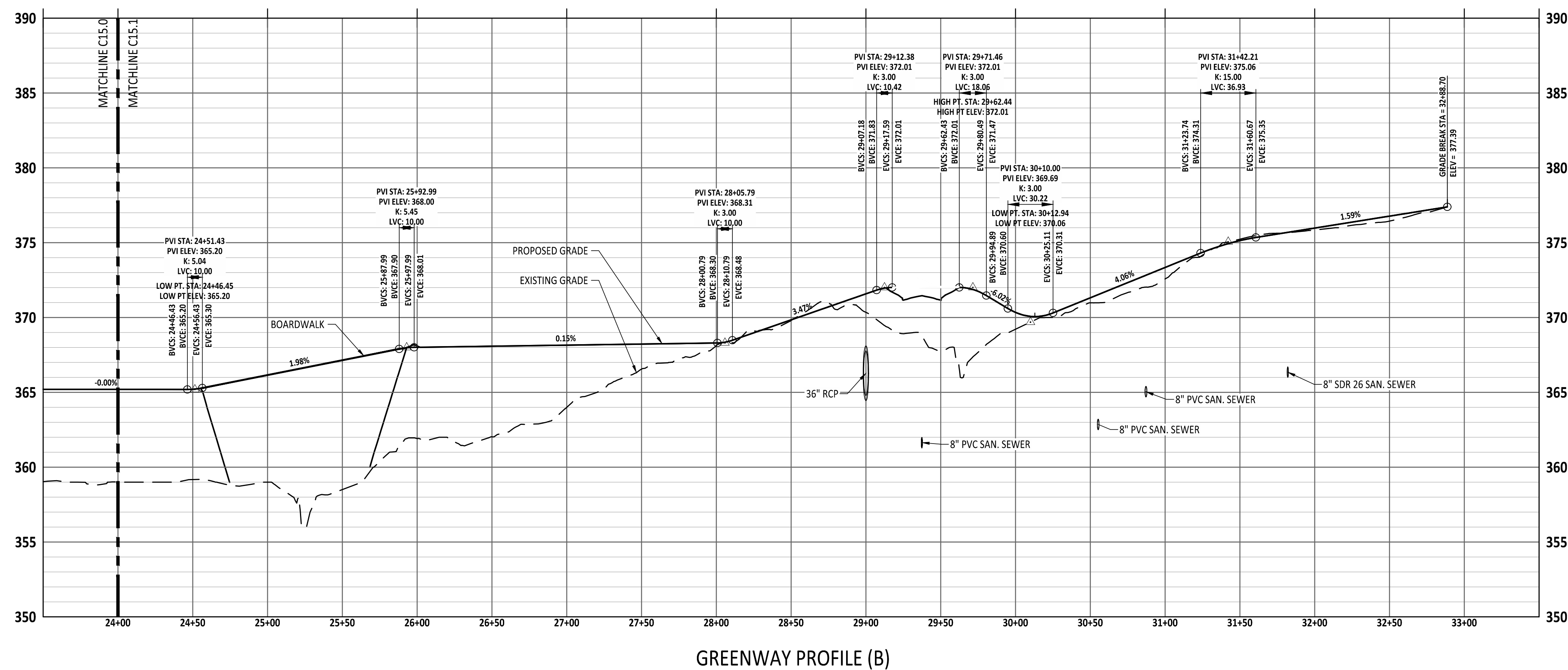
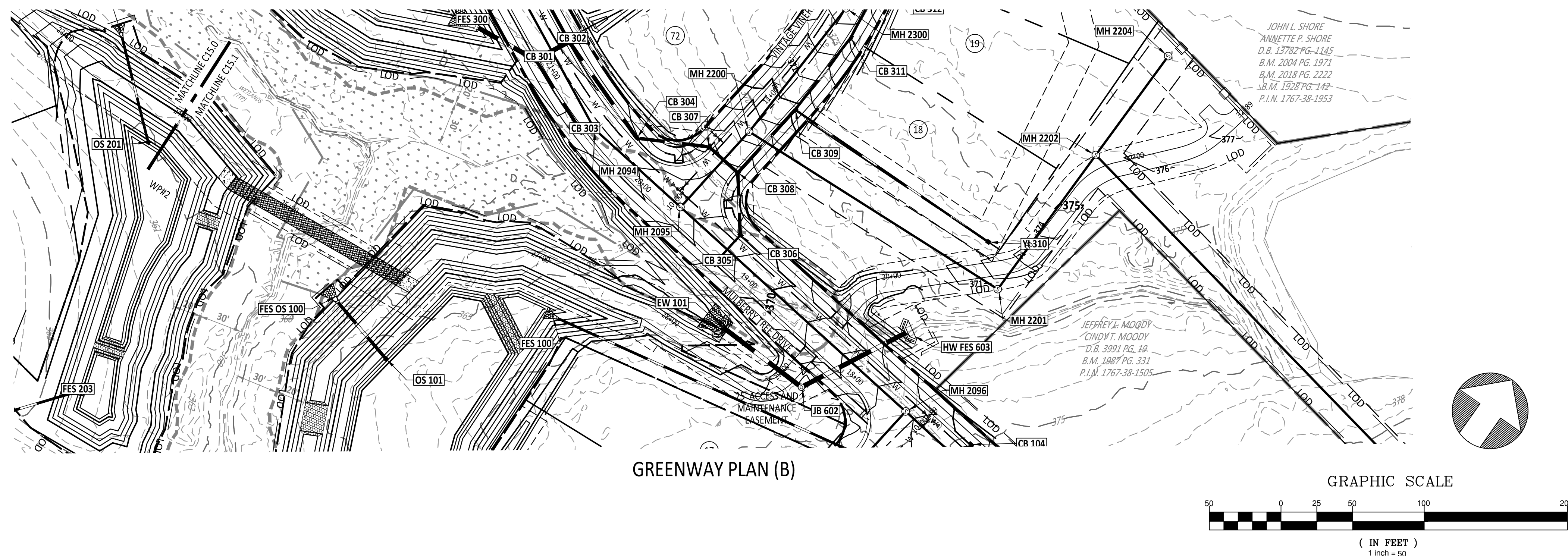
STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR USE ON THE SPECIFIC SITE, NAMED HEREON CONTEMPORANEOUSLY WITH ITS ISSUE DATE AS LISTED, HEREON, AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025
SHEET TITLE:

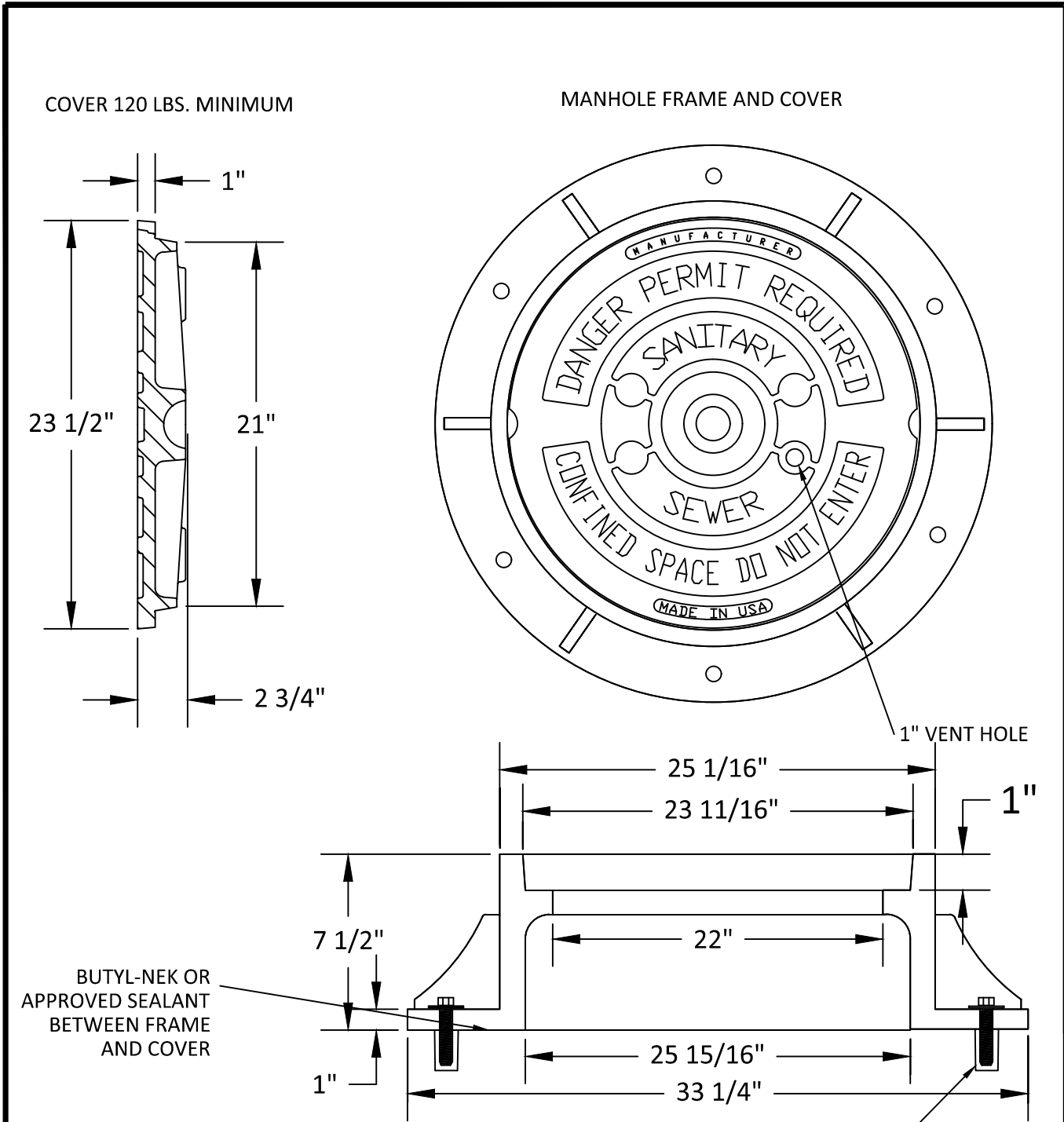
GREENWAY PLAN AND PROFILE

SHEET NO.:  **C15.1**



- NOTES**
1. GREENWAYS SHALL BE CONSTRUCTED WITH EITHER ASPHALT OR CONCRETE PAVEMENT.
 - 1.1. WHEN USING ASPHALT, A 2-INCH MINIMUM ASPHALT COURSE, TYPE S9.5B, WITH A 6-INCH AGGREGATE BASE COURSE SHALL BE PROVIDED.
 - 1.2. WHEN CONCRETE IS USED, A 4-INCH MINIMUM PORTLAND CEMENT CONCRETE (PCC) WITH A 6-INCH AGGREGATE BASE COURSE SHALL BE PROVIDED.
 2. REGARDLESS OF MATERIAL, GEOTEXTILE STABILIZATION FABRIC SHALL BE PLACED UNDER THE COMPACTED AGGREGATE BASE COURSE (ABC) THE ENTIRE LENGTH AND WIDTH OF THE GREENWAY.

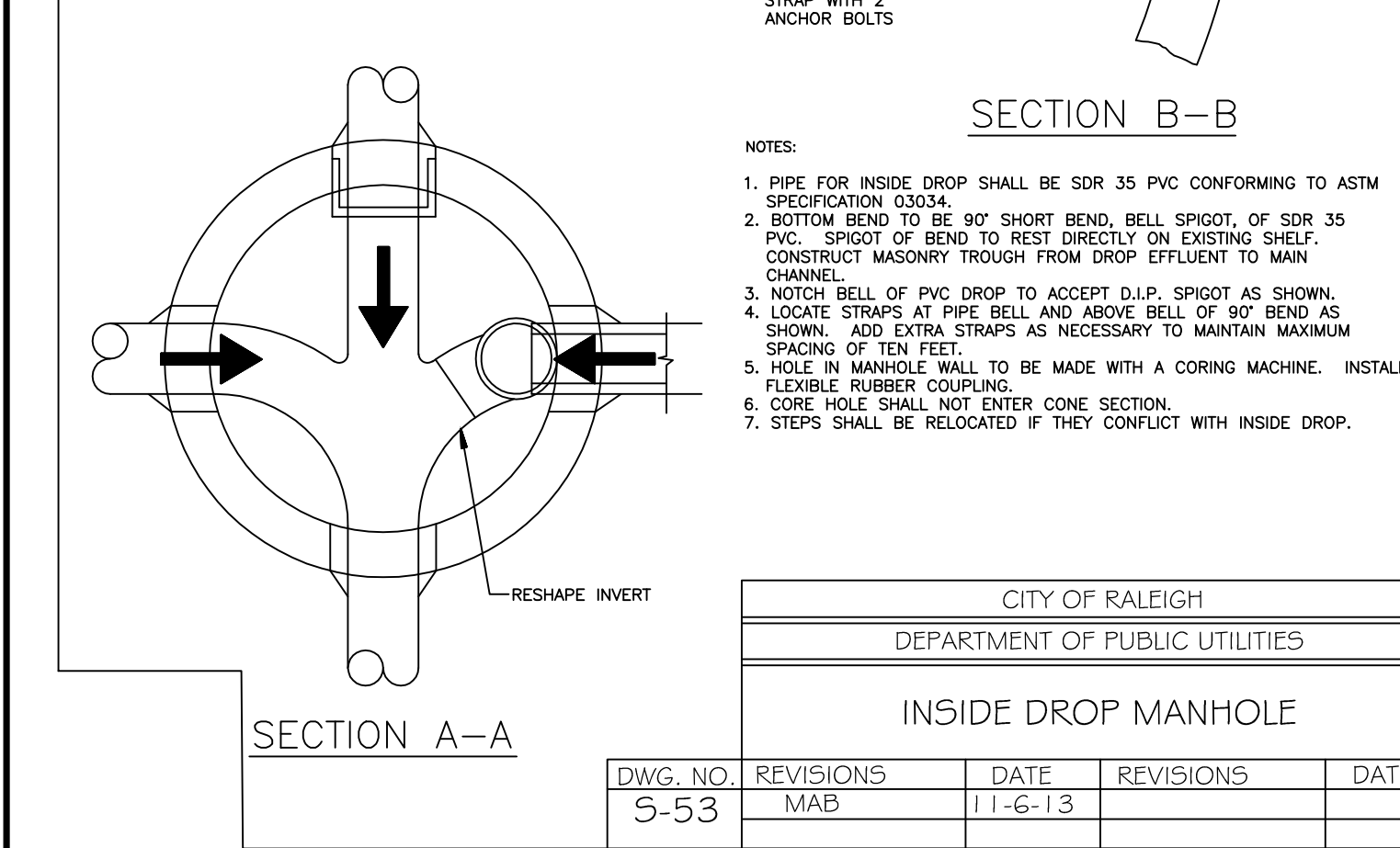
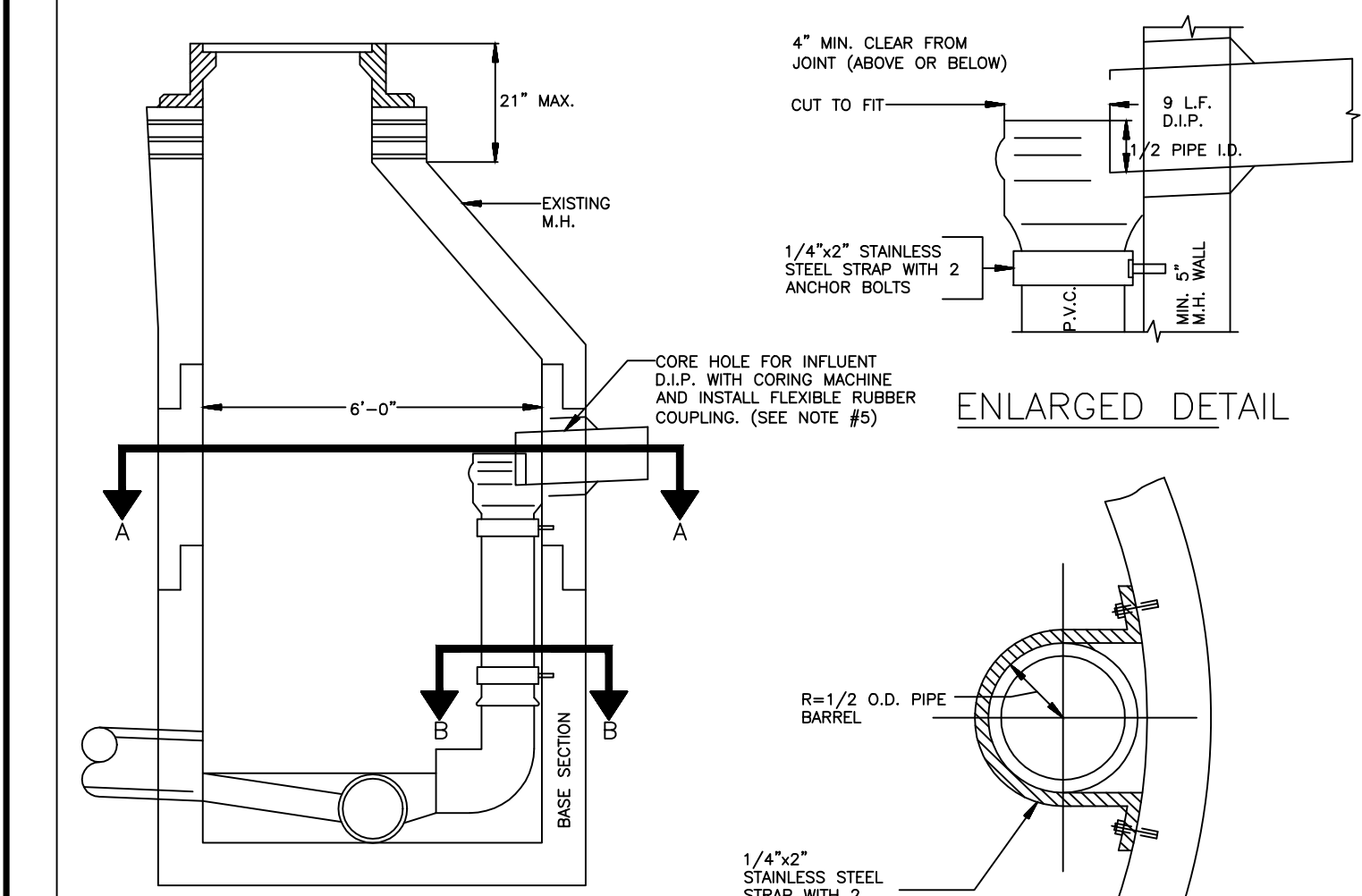
<p align="center">Public</p> <p align="center"><u>Sewer Collection / Extension System</u></p> <p>The City of Raleigh conforms to the construction and extension of the City's public sewer system as shown on the plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City of Raleigh Handbook.</p> <p>City of Raleigh Public Utilities Department/Permit # _____</p>	<p align="center">Public</p> <p align="center"><u>Water Distribution / Extension System</u></p> <p>The City of Raleigh conforms to the construction and extension of the City's public water system as shown on the plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City of Raleigh Handbook.</p> <p>City of Raleigh Public Utilities Department/Permit # _____</p>
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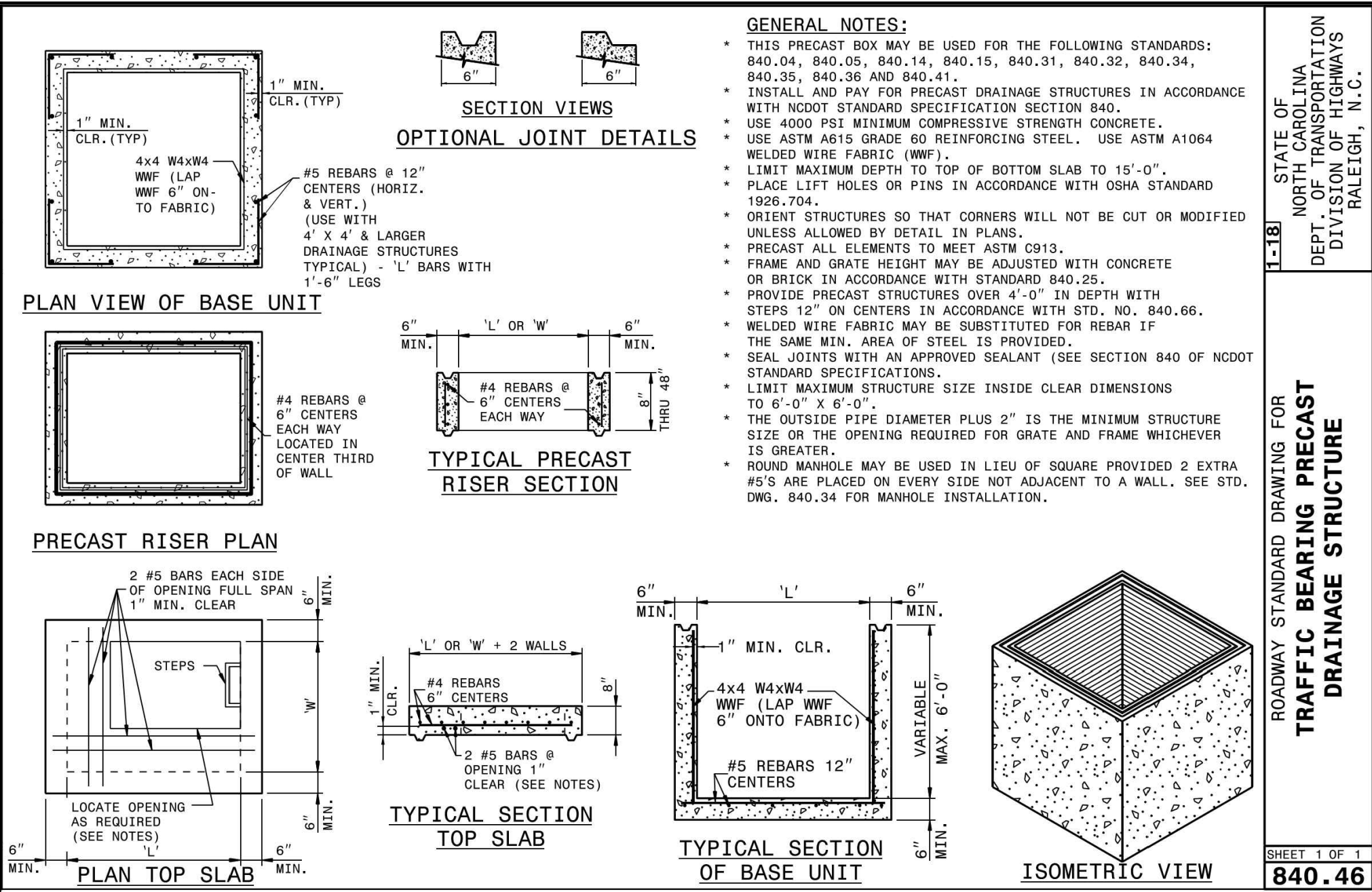
NOTES:
1) ALL MANHOLE FRAMES SHALL BE DOMESTICALLY CAST.
2) FRAME SHALL BE A MINIMUM WEIGHT OF 182 LBS. WITHIN PUBLIC ROW AND 160 LBS. WITHIN EASEMENTS.
3) COVER SHALL WEIGH A MIN. OF 120 LBS.
4) ALL MANHOLE FRAMES OUTSIDE OF PAVED SURFACES SHALL BE BOLTED TO THE CONE SECTION OR RING WITH A MINIMUM OF 4 BOLTS PER FRAME.

5/8"x3" LAGSHIELD IN HOLE DRILLED INTO CONE OR RING WITH ANCHOR SUNK TO DESIGN DEPTH, AND 3/8"x3" HOT DIPPED GALVANIZED LAG BOLT AND WASHER.

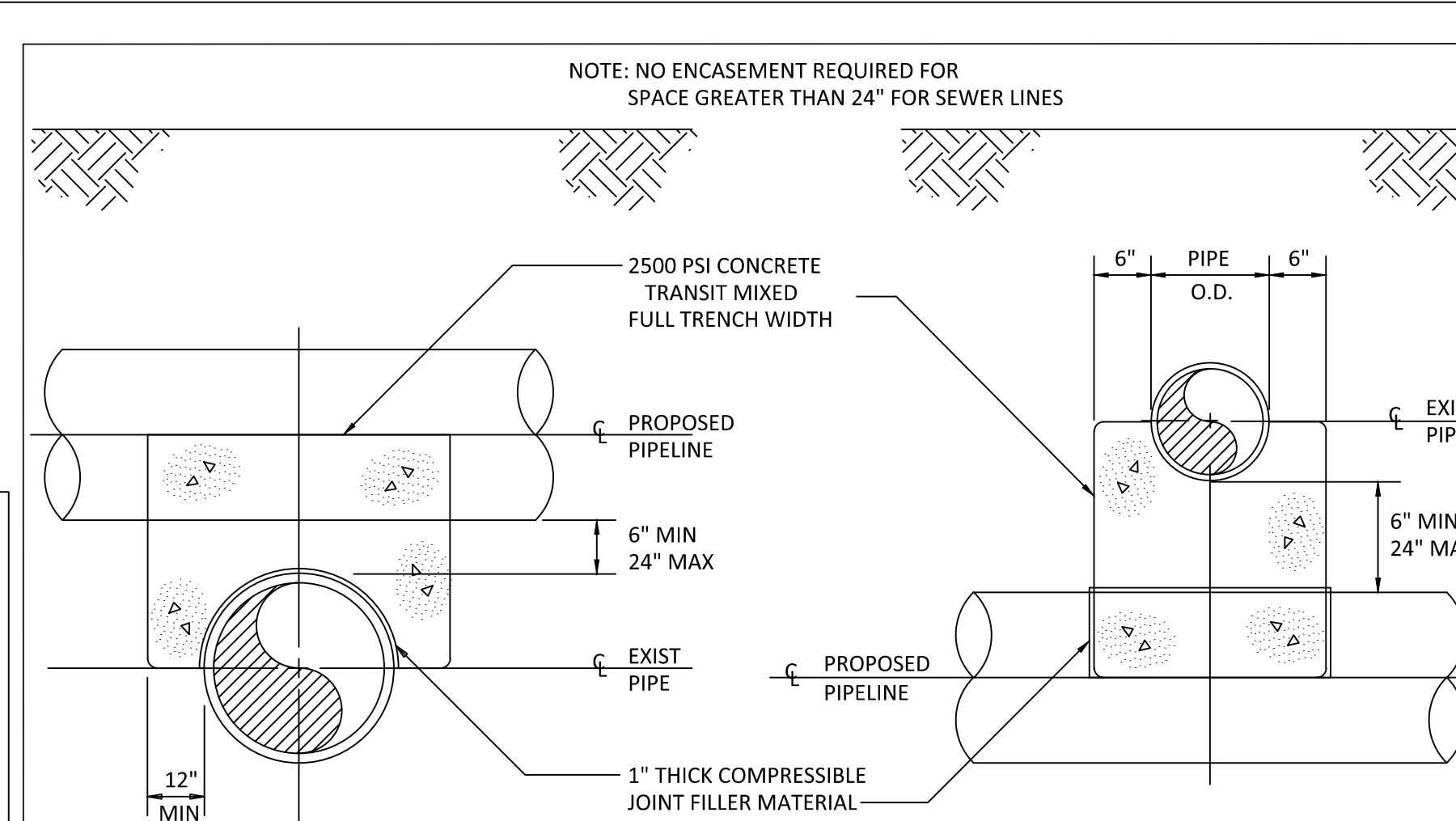
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES STANDARD MANHOLE COVER				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-25	3-1-87 RRH	3-1-87 3-30-00	A.B.B. D.H.L.	2-9-05 6-18-08



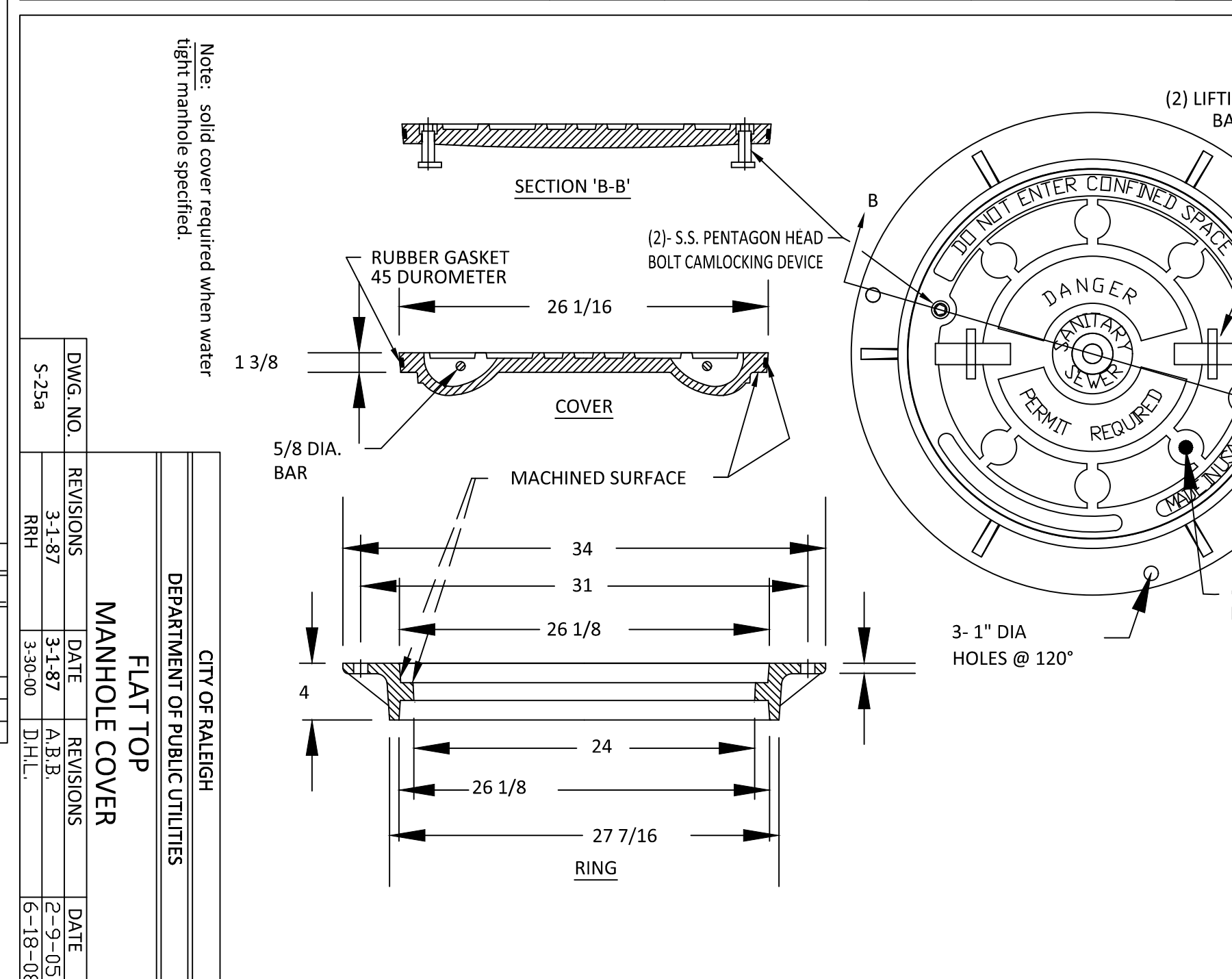
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES INSIDE DROP MANHOLE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-53	3-1-87 MAB	3-1-87 11-6-13	A.B.B. D.H.L.	2-9-05 6-18-08



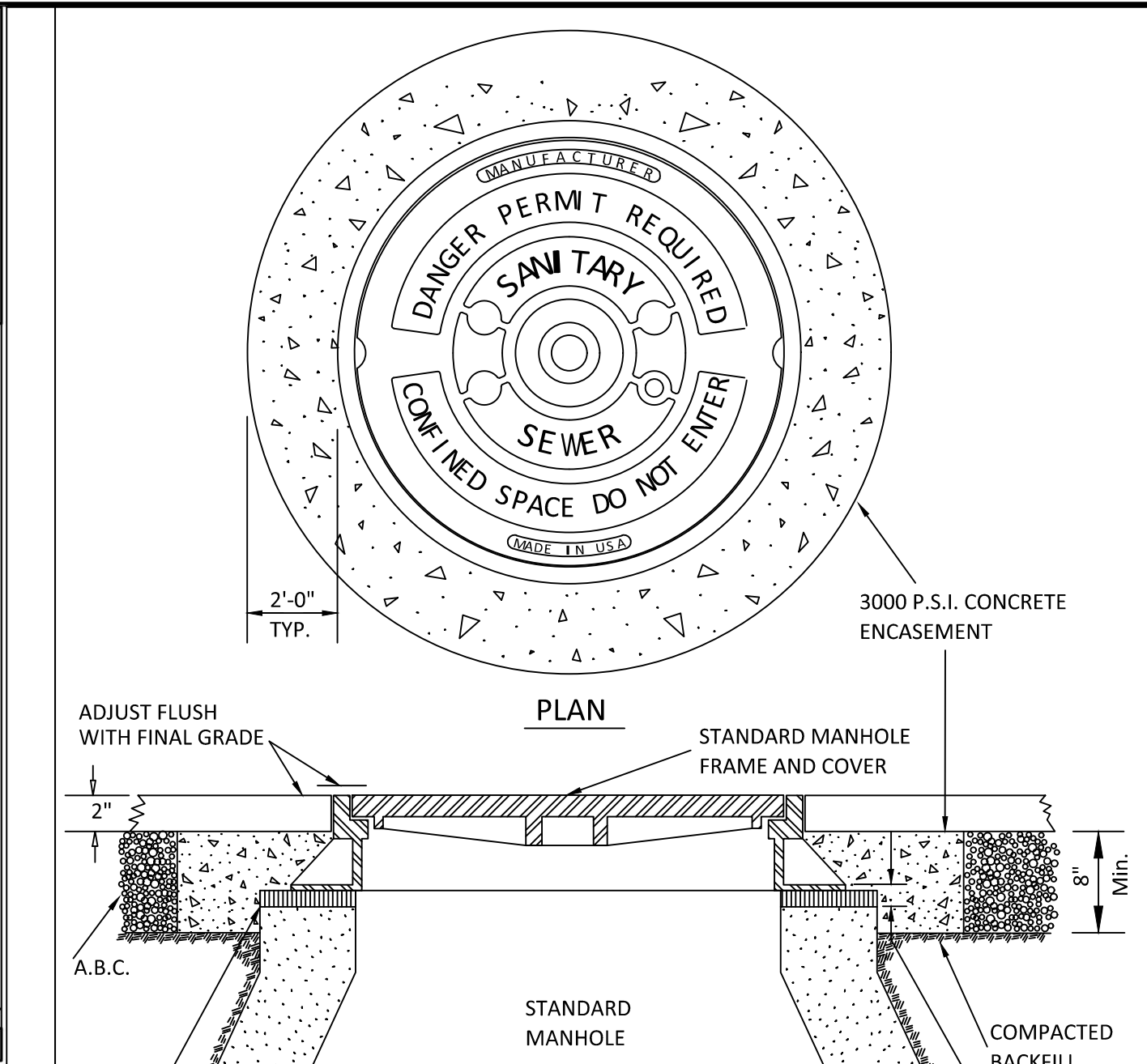
GENERAL NOTES:
* THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.04, 840.05, 840.14, 840.15, 840.31, 840.32, 840.34, 840.35, 840.36 AND 840.41.
* INSTALL AND PAY FOR PRECAST DRAINAGE STRUCTURES IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATION SECTION 840.
* USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.
* USE ASTM A615 GRADE 60 REINFORCING STEEL. - USE ASTM A1064 WELDED WIRE FABRIC (WWF).
* LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB TO 15'-0".
* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
* ORIENT STRUCTURES SO THAT CORNERS WILL NOT BE CUT OR MODIFIED UNLESS ALLOWED BY DETAIL IN PLANS.
* PRECAST ALL ELEMENTS TO MEET ASTM C913.
* FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
* PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. NO. 840.66.
* WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR IF THE SAME MIN. AREA OF STEEL IS PROVIDED.
* SEAL JOINTS WITH AN APPROVED SEALANT (SEE SECTION 840 OF NCDOT STANDARD SPECIFICATIONS).
* LIMIT MAXIMUM STRUCTURE SIZE INSIDE CLEAR DIMENSIONS TO 6'-0" X 6'-0".
* THE OUTSIDE PIPE DIAMETER PLUS 2" IS THE MINIMUM STRUCTURE SIZE OR THE OPENING REQUIRED FOR GRATE AND FRAME WHICHEVER IS GREATER.
* ROUND MANHOLE MAY BE USED IN LIEU OF SQUARE PROVIDED 2 EXTRA #5'S ARE PLACED ON EVERY SIDE NOT ADJACENT TO A WALL. (SEE STD. DWG. 840.34 FOR MANHOLE INSTALLATION).



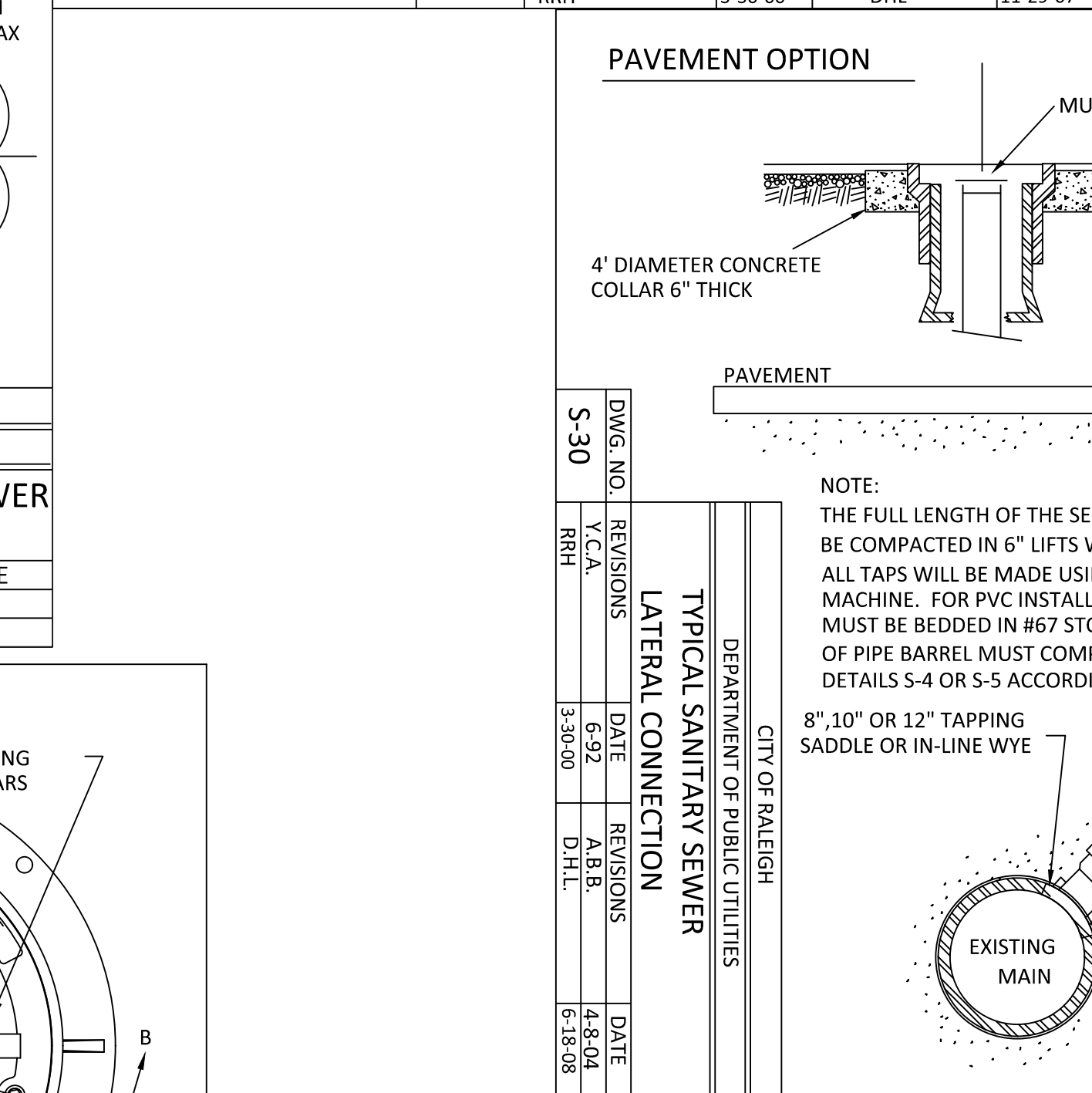
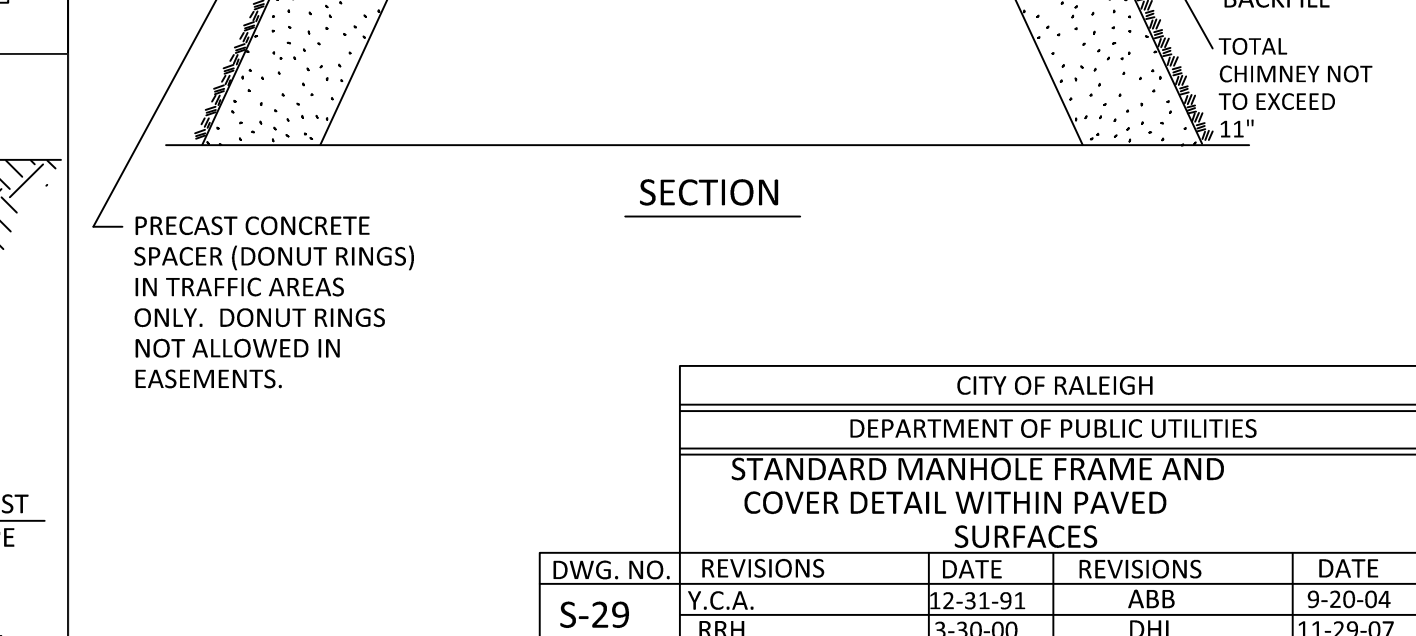
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES CONCRETE CRADLE PROTECTION FOR SEWER LINE CROSSINGS				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-49	DHL	2-20-08		



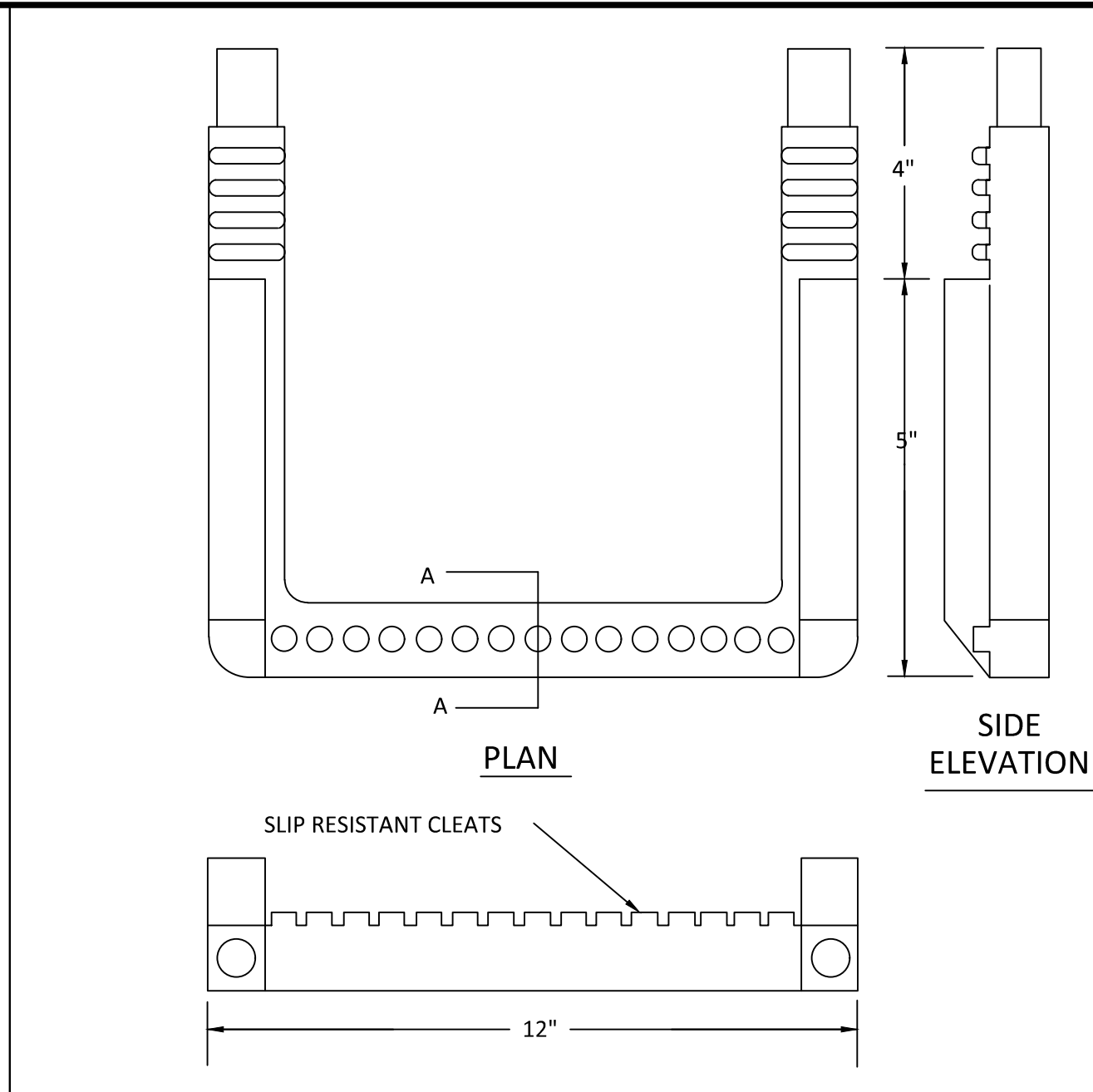
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES FLAT TOP MANHOLE COVER				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-25a	3-1-87 RRH	3-1-87 3-30-00	A.B.B. D.H.L.	2-9-05 6-18-08



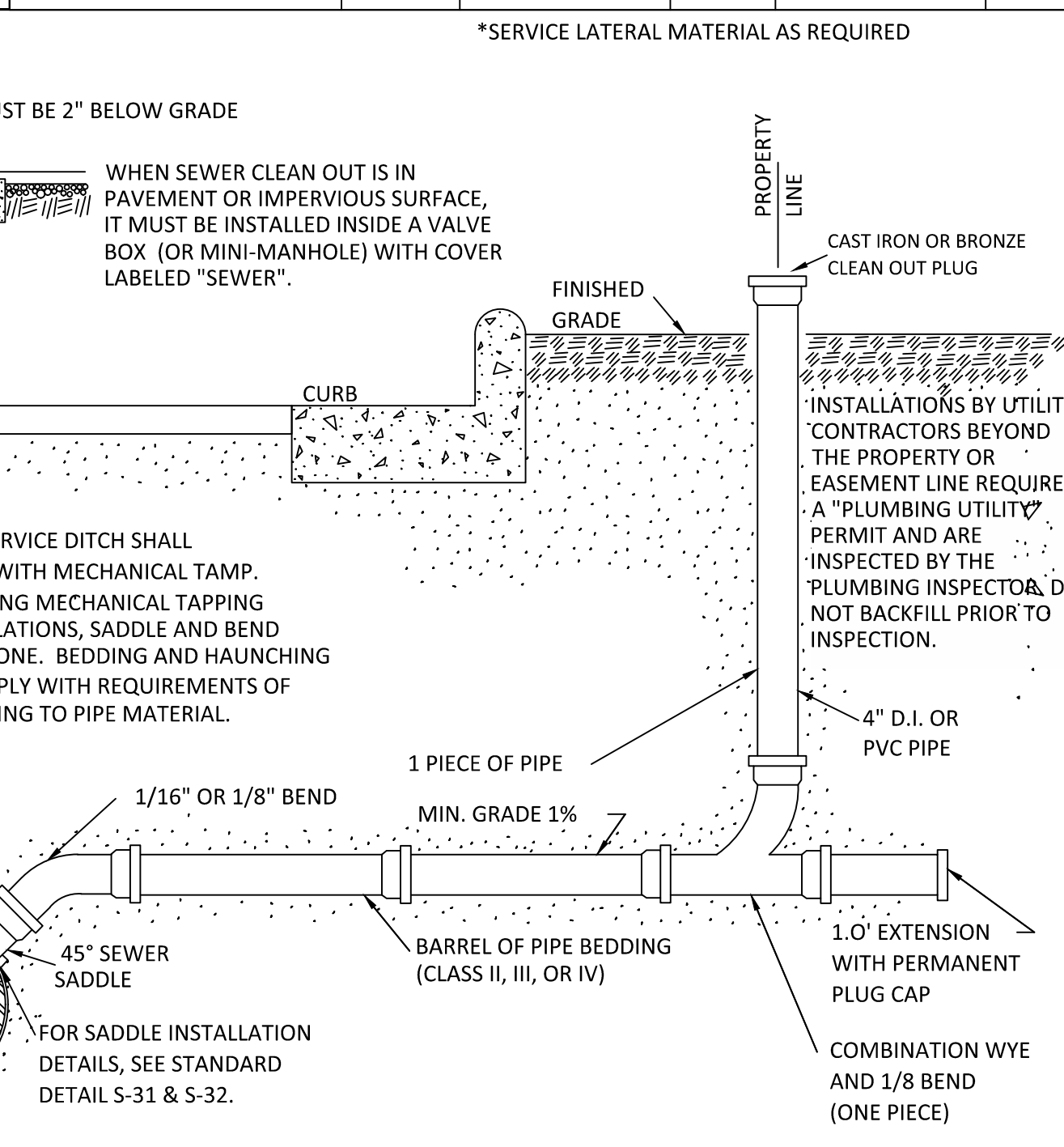
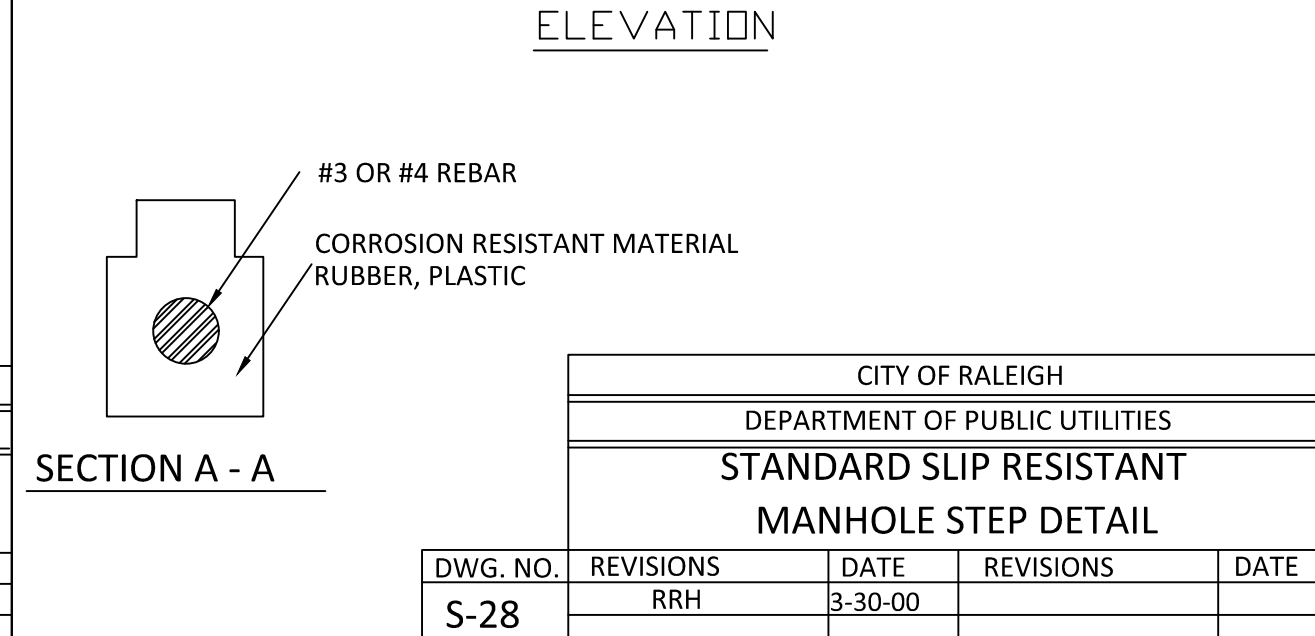
CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES STANDARD MANHOLE FRAME AND COVER DETAIL WITHIN PAVED SURFACES				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-29	Y.C.A. RRH	12-31-91 3-30-00	ABB DHL	9-20-04 11-29-07



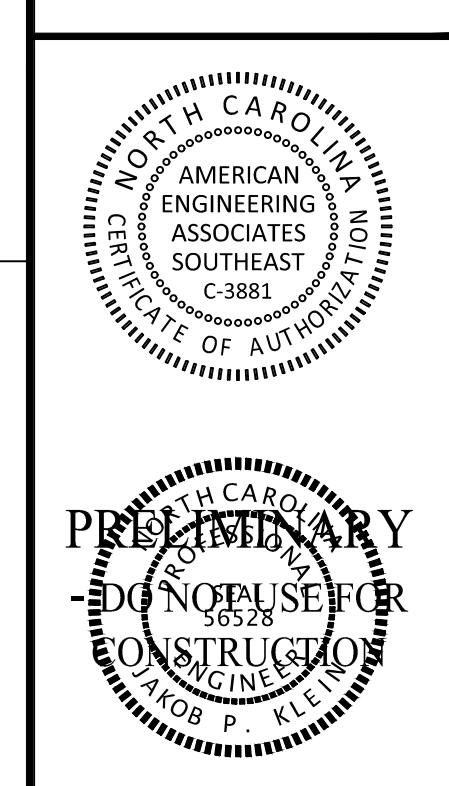
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DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-30	Y.C.A. RRH	6-92 3-30-00	ABB D.H.L.	4-8-04 6-18-08



CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES STANDARD SLIP RESISTANT MANHOLE STEP DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-28	RRH	3-30-00		



CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES TYPICAL SANITARY SEWER LATERAL CONNECTION				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-30	Y.C.A. RRH	6-92 3-30-00	ABB D.H.L.	4-8-04 6-18-08

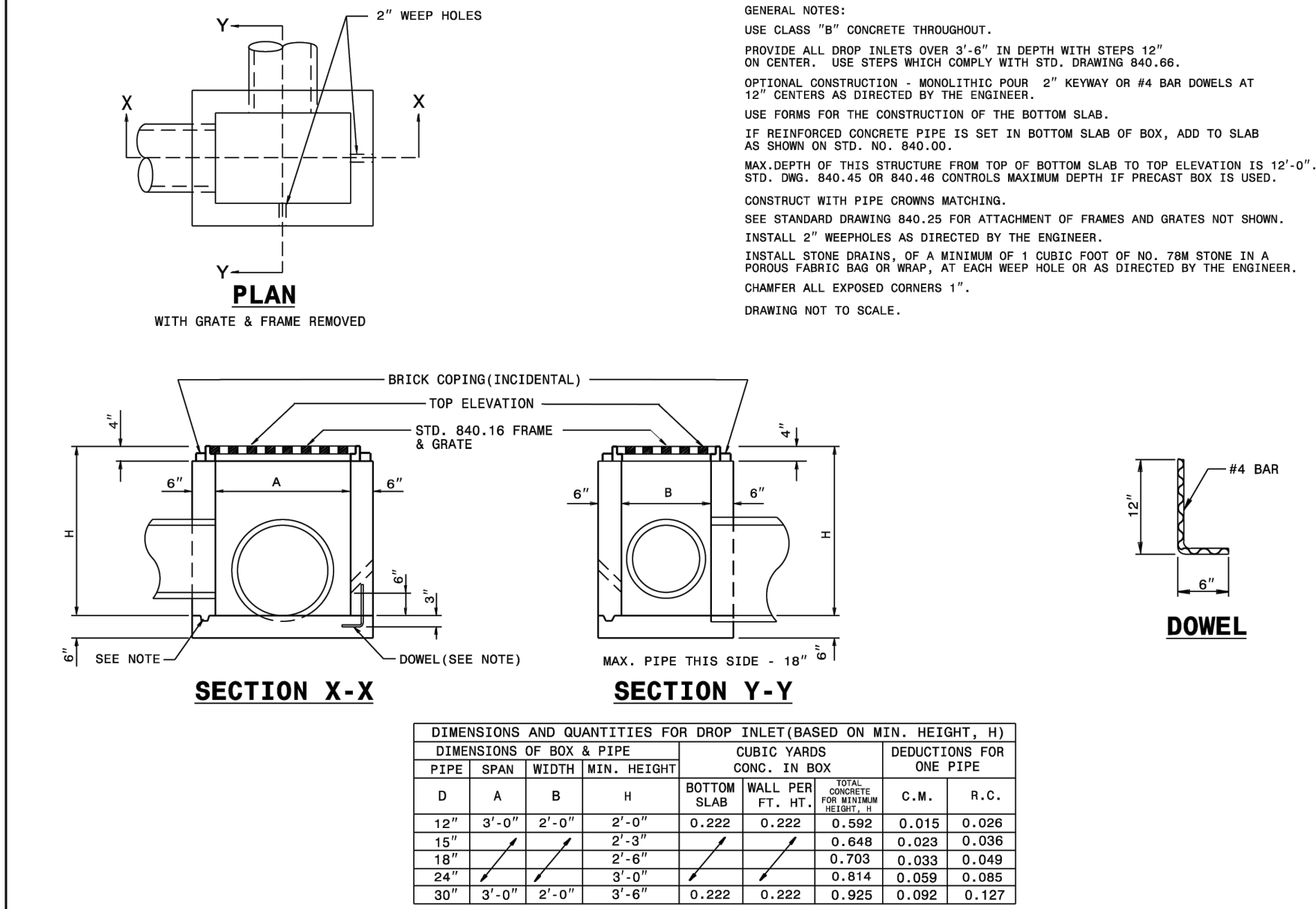


CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES STANDARD SLIP RESISTANT MANHOLE STEP DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-28	RRH	3-30-00		

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THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

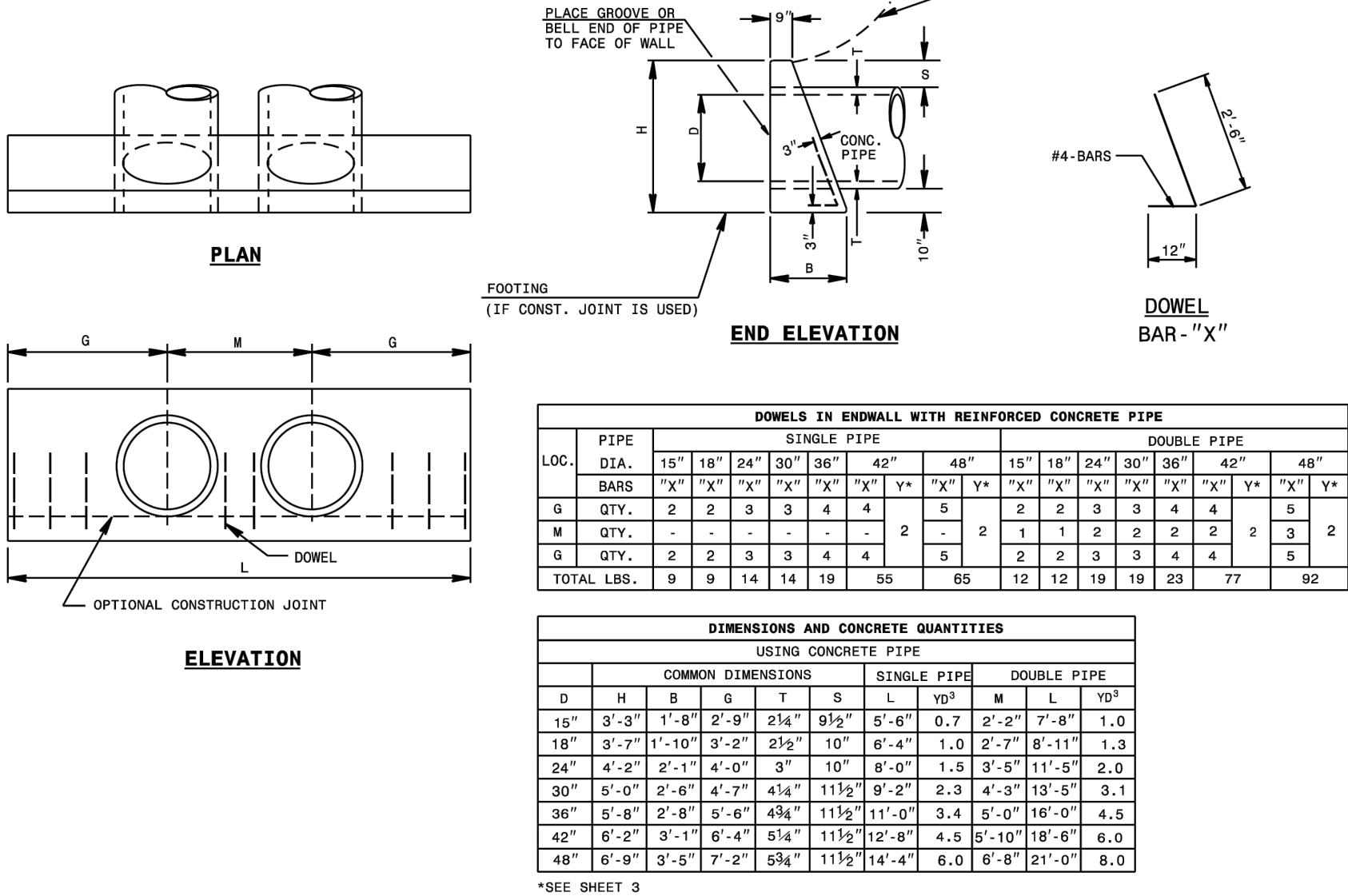
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025
SHEET TITLE: UTILITY DETAILS
SHEET NO.: CD10



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

ROADWAY STANDARD DRAWING FOR
CONCRETE DROP INLET
12" THRU 30" PIPE

SHEET 1 OF 1
840.14



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

ROADWAY STANDARD DRAWING FOR
CONCRETE ENDWALL FOR SINGLE
AND DOUBLE PIPE CULVERTS
15" THRU 48" PIPE - 90° SKEW

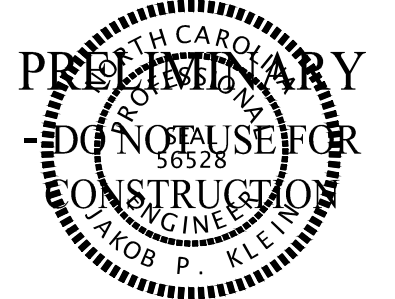
SHEET 1 OF 3
838.01

GENERAL NOTES:
CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".
PLACE 2 #6 "Y" BARS IN THE TOP OF ALL ENDWALL FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM OF 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALL LENGTH.
CONSTRUCT BOTTOM SLAB WITH FORMS.
DO NOT INTERPRET WALL THICKNESS (T) SHOWN FOR THE THICKNESS ACCEPTABLE, BUT IS USED IN COMPUTING ENDWALL QUANTITIES.
WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE, PLACE BAR "X" DOWELS IN THE BASE AS SHOWN ON PLANS. SPACE BARS APPROXIMATELY ON 12" CENTERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE AND POUR THE BASE SEPARATELY LEAVE THE POUR ROUGH.
USE CLASS "B" CONCRETE.

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

ROADWAY STANDARD DRAWING FOR
CONCRETE ENDWALL FOR SINGLE
AND DOUBLE PIPE CULVERTS
15" THRU 48" PIPE - 90° SKEW

SHEET 3 OF 3
838.01



GENERAL NOTES:
CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".
PLACE 2 #6 "Y" BARS IN THE TOP OF ALL ENDWALL FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM OF 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALL LENGTH.
CONSTRUCT BOTTOM SLAB WITH FORMS.
DO NOT INTERPRET WALL THICKNESS (T) SHOWN FOR THE THICKNESS ACCEPTABLE, BUT IS USED IN COMPUTING ENDWALL QUANTITIES.
WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE, PLACE BAR "X" DOWELS IN THE BASE AS SHOWN ON PLANS. SPACE BARS APPROXIMATELY ON 12" CENTERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
WHEN THE CONTRACTOR ELECTS TO USE A CONSTRUCTION JOINT AT THE BOTTOM OF THE PIPE AND POUR THE BASE SEPARATELY LEAVE THE POUR ROUGH.
USE CLASS "B" CONCRETE.

GENERAL NOTES:
USE CLASS "A" CONCRETE.
CHAMFER ALL EXPOSED CORNERS 1".
ALL DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING STEEL ARE TO CENTERS OF BARS.
PLACE A STONE DRAIN CONSISTING OF ONE (1) CUBIC FOOT OF NUMBER 78M STONE CONTAINED IN A POROUS FABRIC AT EACH WEEP HOLE. PLACE SUBDRAIN FINE AGGREGATE BENEATH, AROUND AND OVER THE STONE DRAIN SO THE STONE DRAIN IS COMPLETELY COVERED BY A LAYER OF SUBDRAIN FINE AGGREGATE AT LEAST ONE (1) FOOT THICK. WHERE THERE IS MORE THAN ONE WEEP HOLE IN A WING WALL, PLACE A HORIZONTAL DRAIN OF SUBDRAIN FINE AGGREGATE AT LEAST ONE (1) FOOT SQUARE IN CROSS SECTION TO CONNECT ALL STONE DRAINS. PLACE A VERTICAL DRAIN OF SUBDRAIN FINE AGGREGATE AT LEAST ONE (1) FOOT SQUARE IN CROSS SECTION AT EACH WEEP HOLE TO AN ELEVATION OF TWO (2) FEET BELOW THE SURFACE OF THE EMBANKMENT.

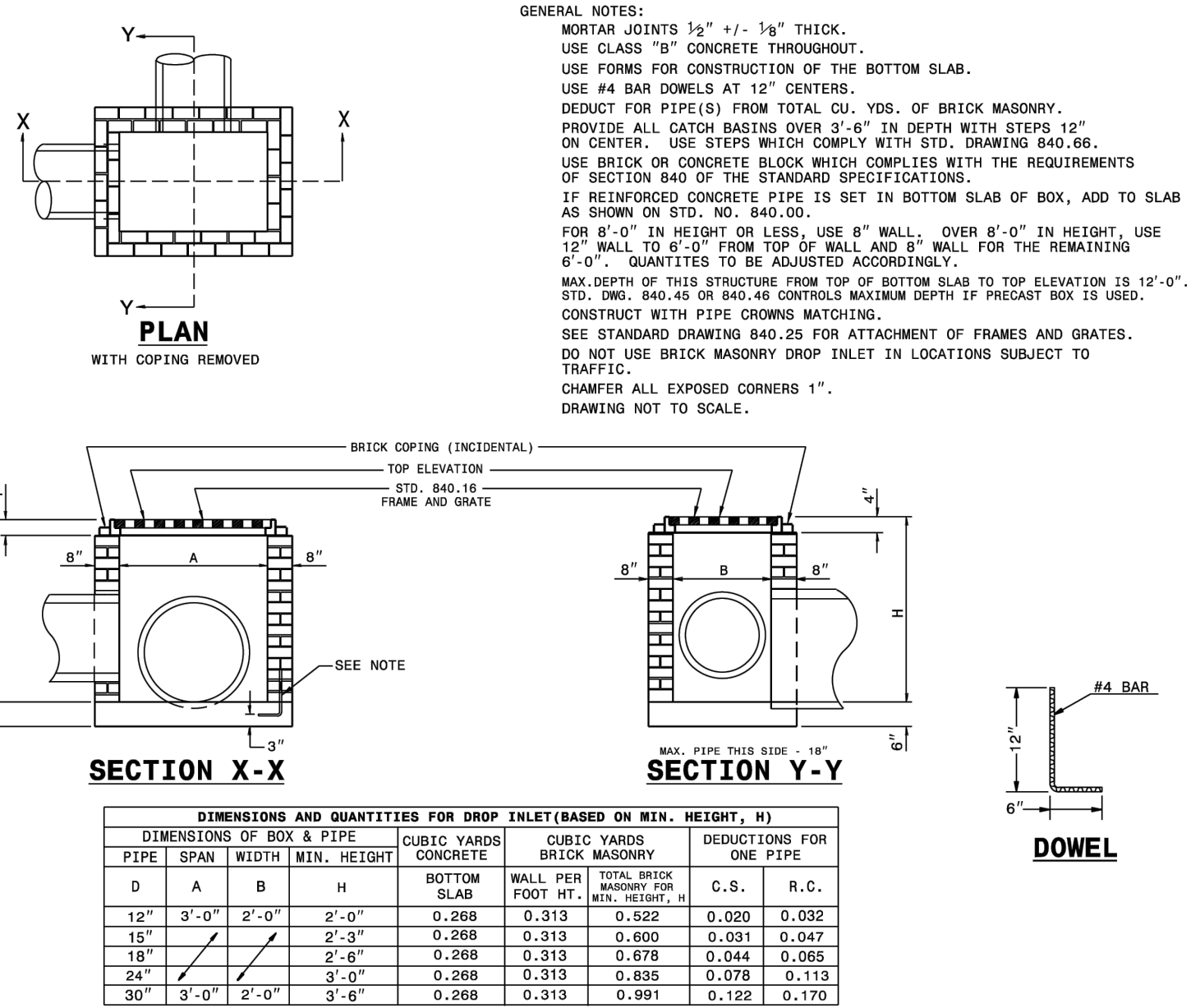
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR
NOTES FOR REINFORCED CONCRETE ENDWALL
STANDARD DRAWINGS 838.21 THRU 838.40

SHEET 1 OF 1
838.45

NO.		DATE	REVISION
1	07-03-2025	04-07-2025	
2			

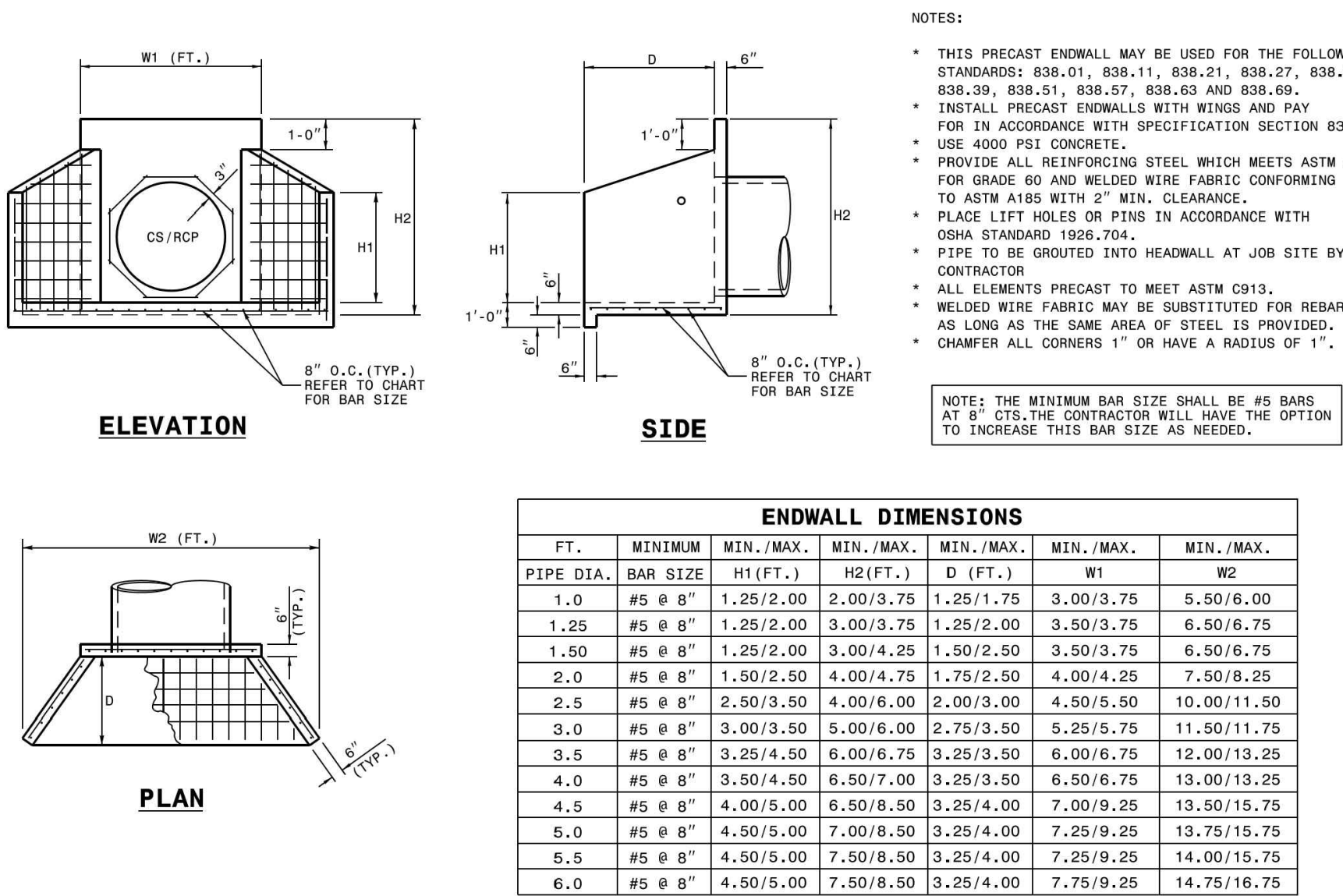
CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITAL #1
CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITAL #2



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

ROADWAY STANDARD DRAWING FOR
BRICK DROP INLET
12" THRU 30" PIPE

SHEET 1 OF 1
840.15



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

ROADWAY STANDARD DRAWING FOR
PRECAST CONCRETE ENDWALL
FOR SINGLE 12" THRU 72" PIPE - 90° SKEW

SHEET 1 OF 1
838.80

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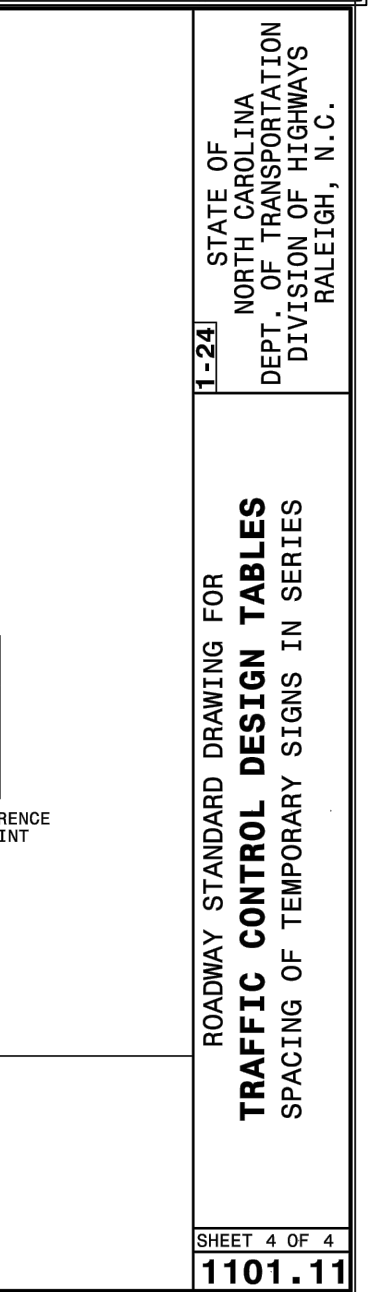
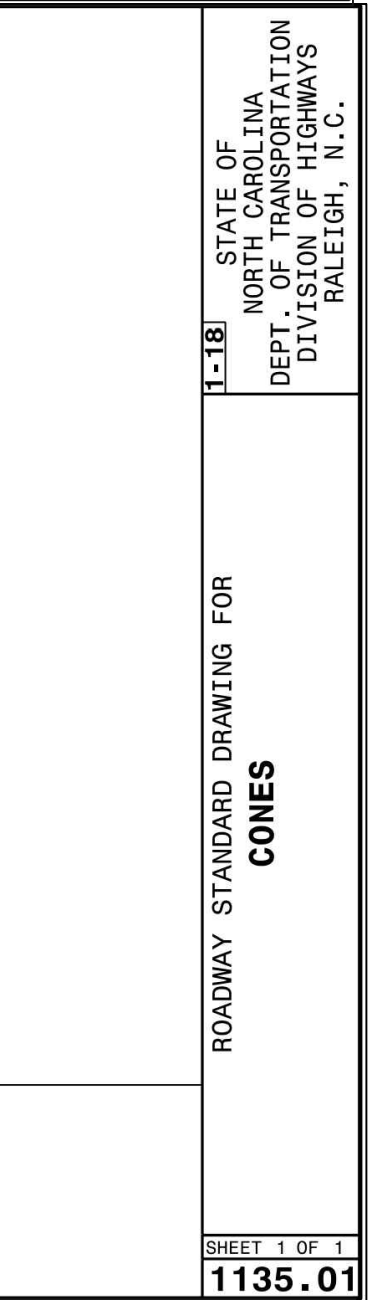
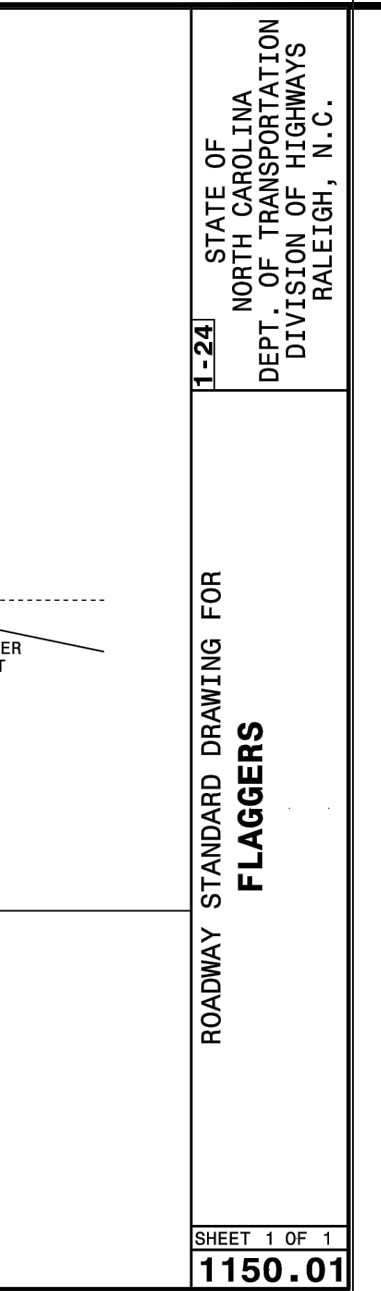
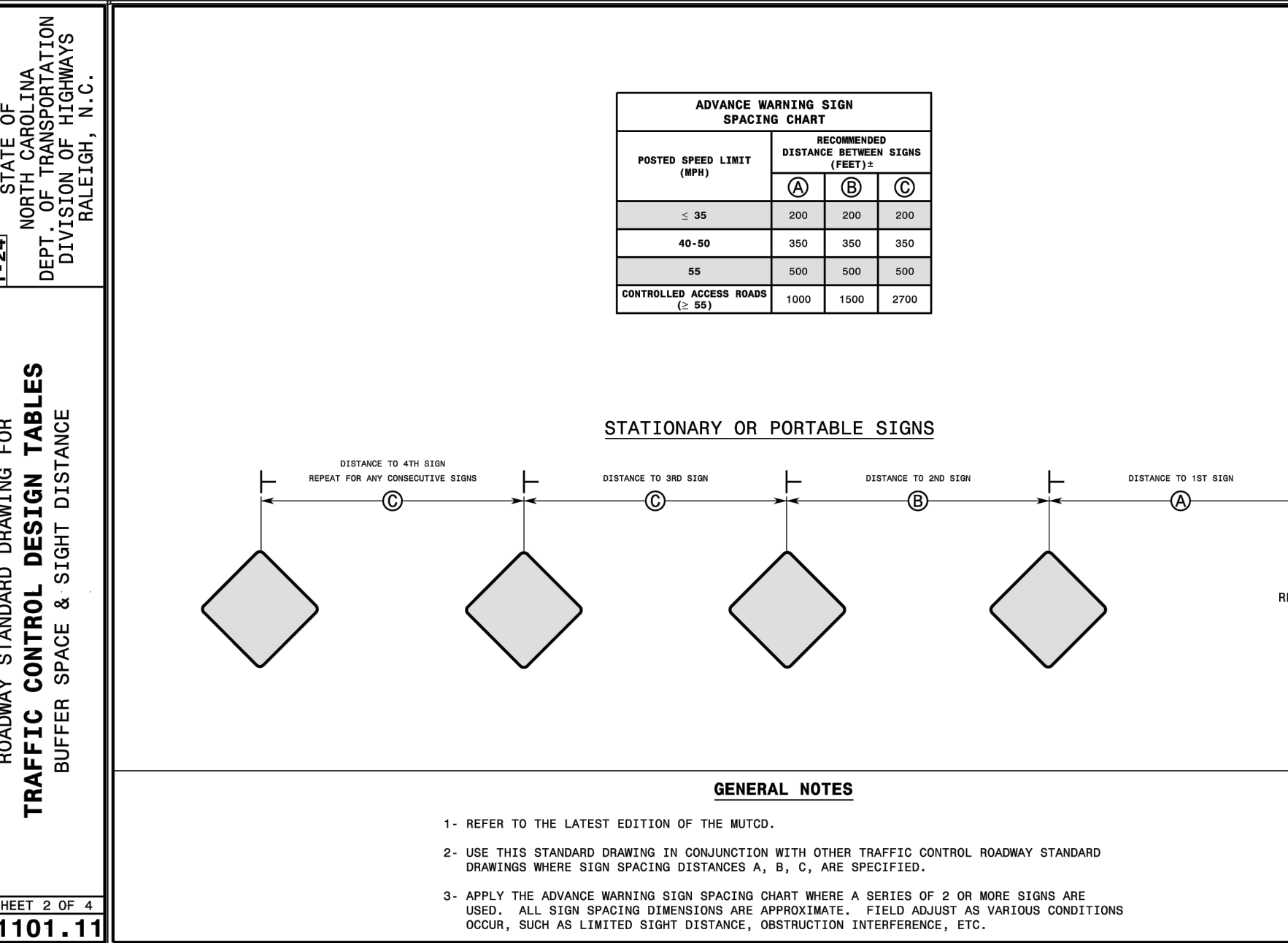
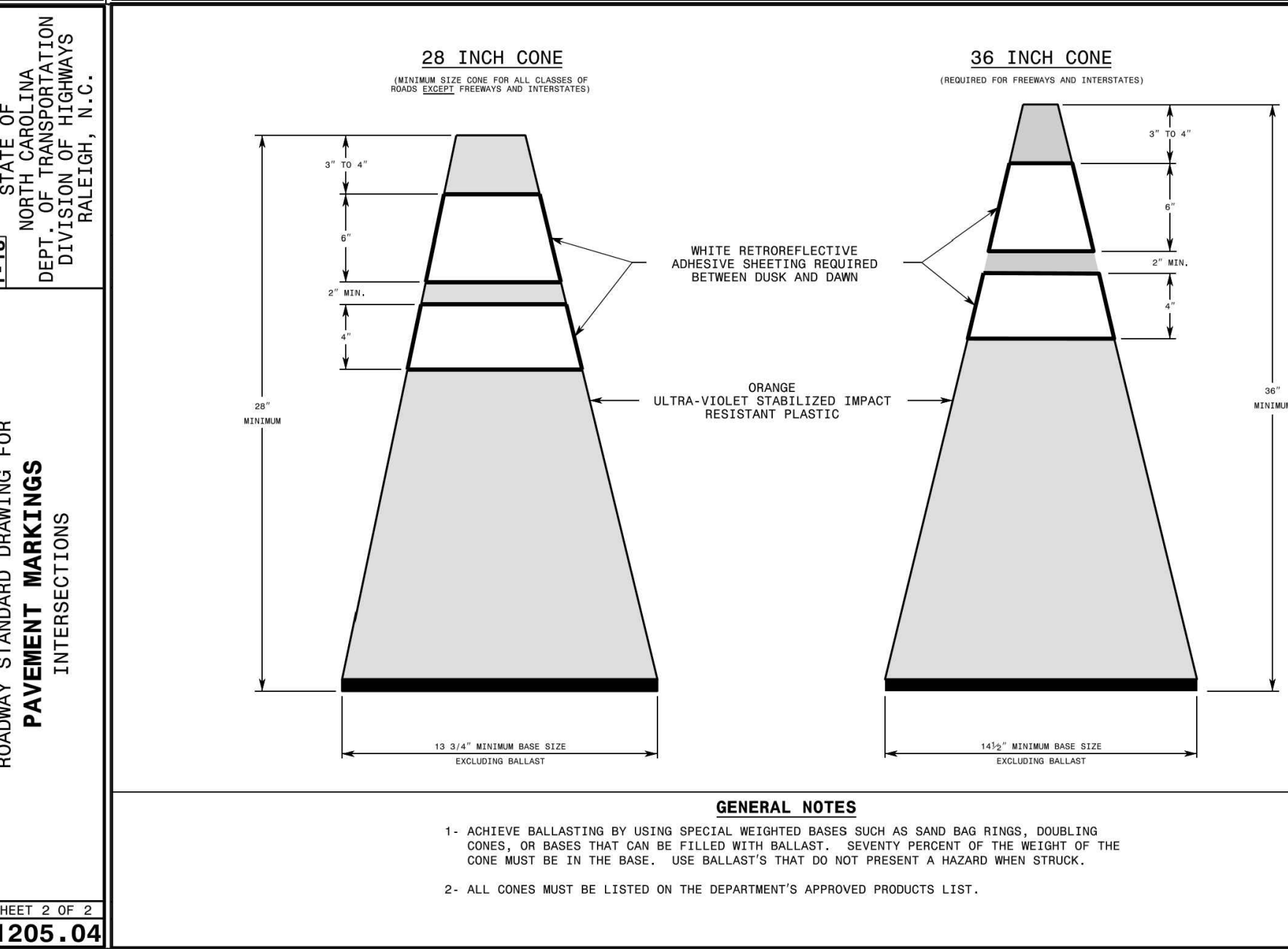
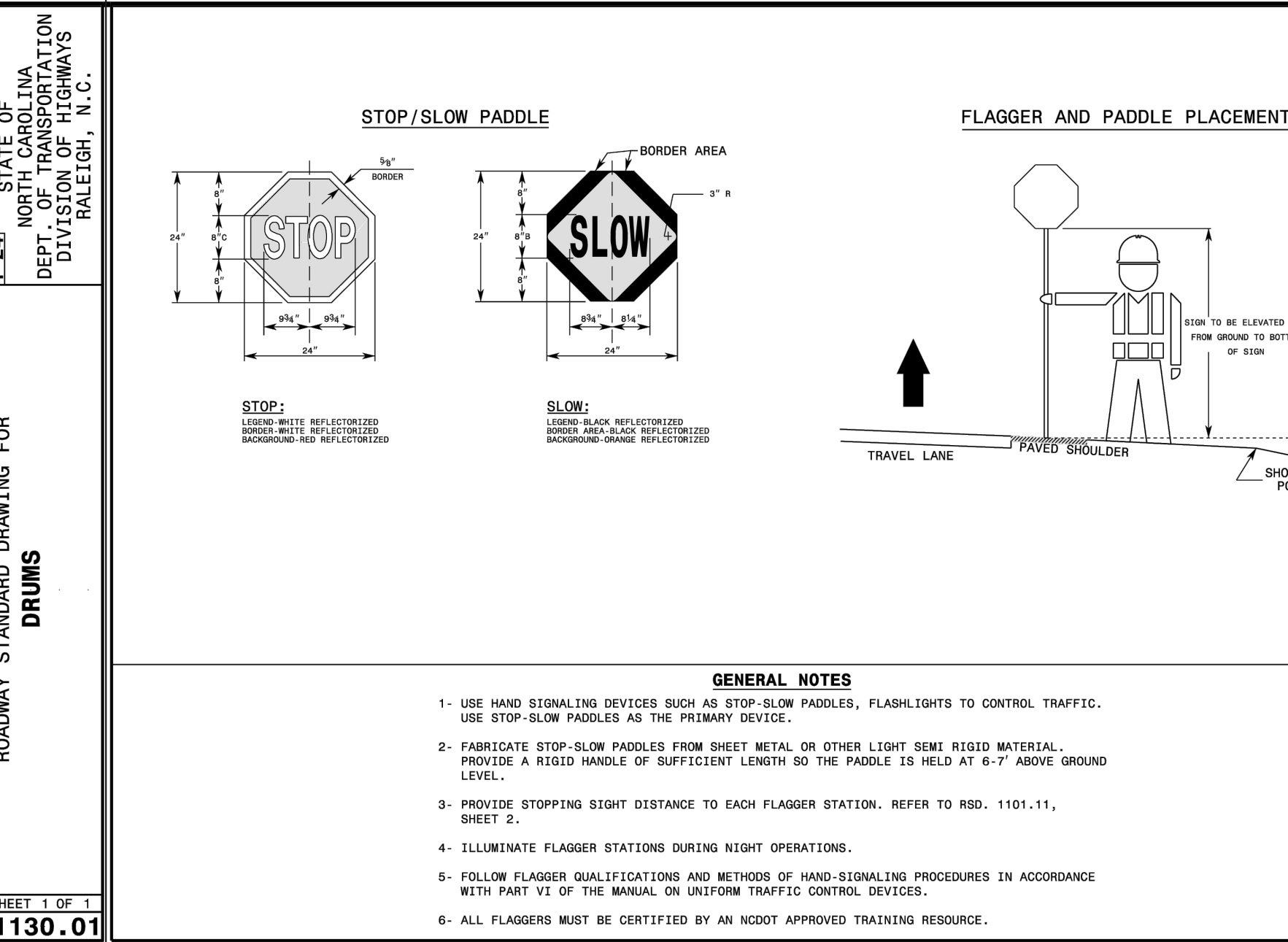
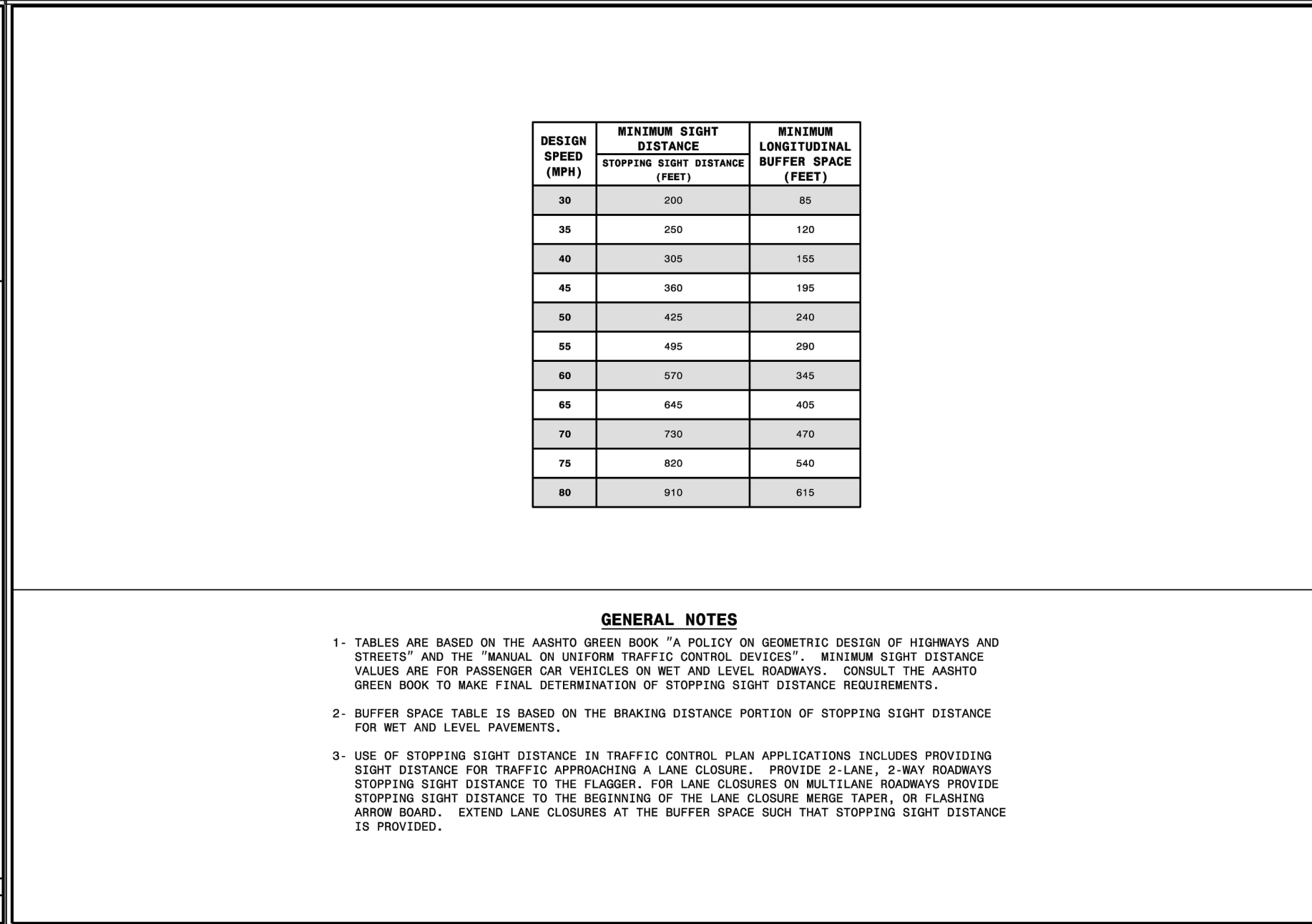
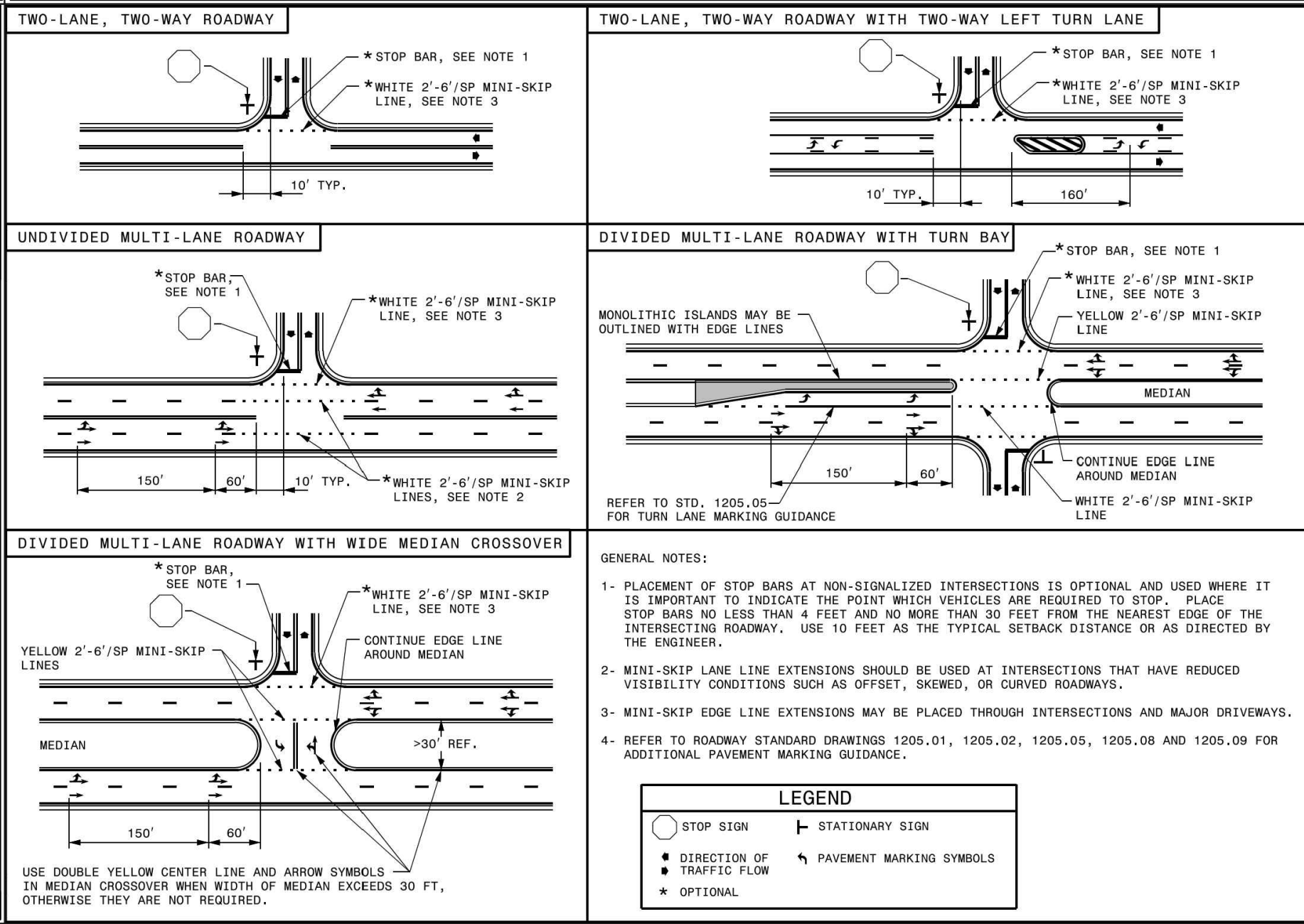
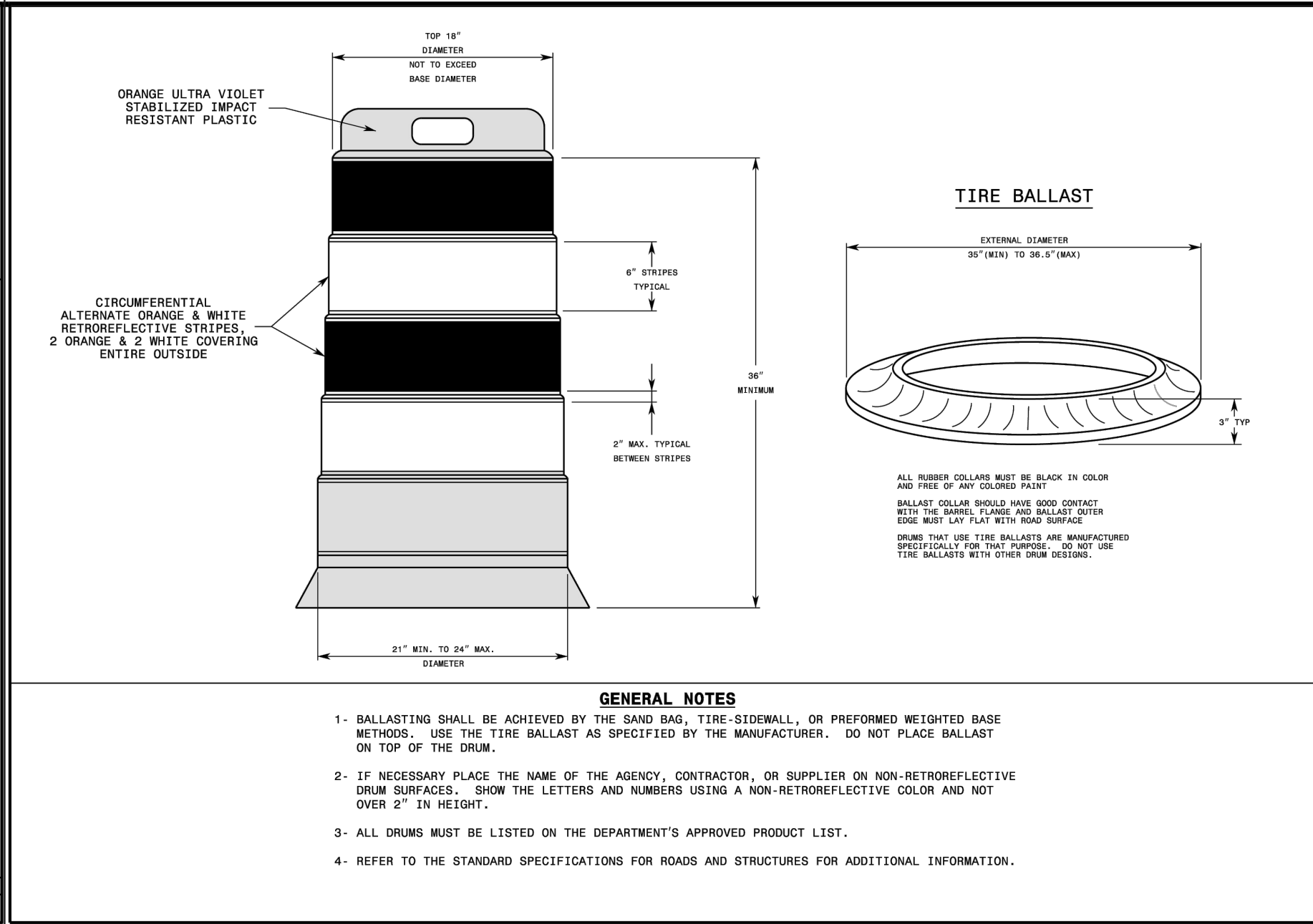
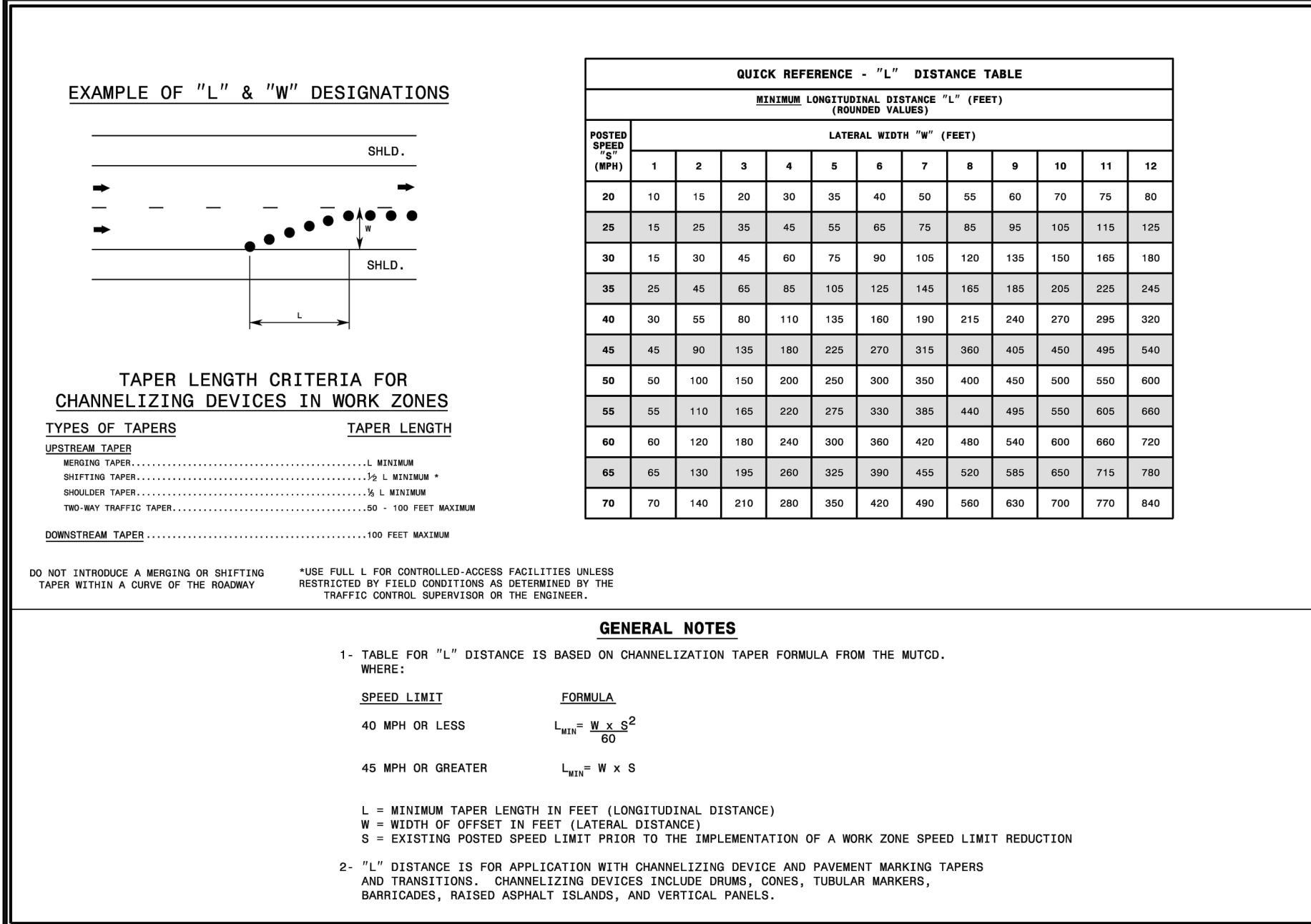
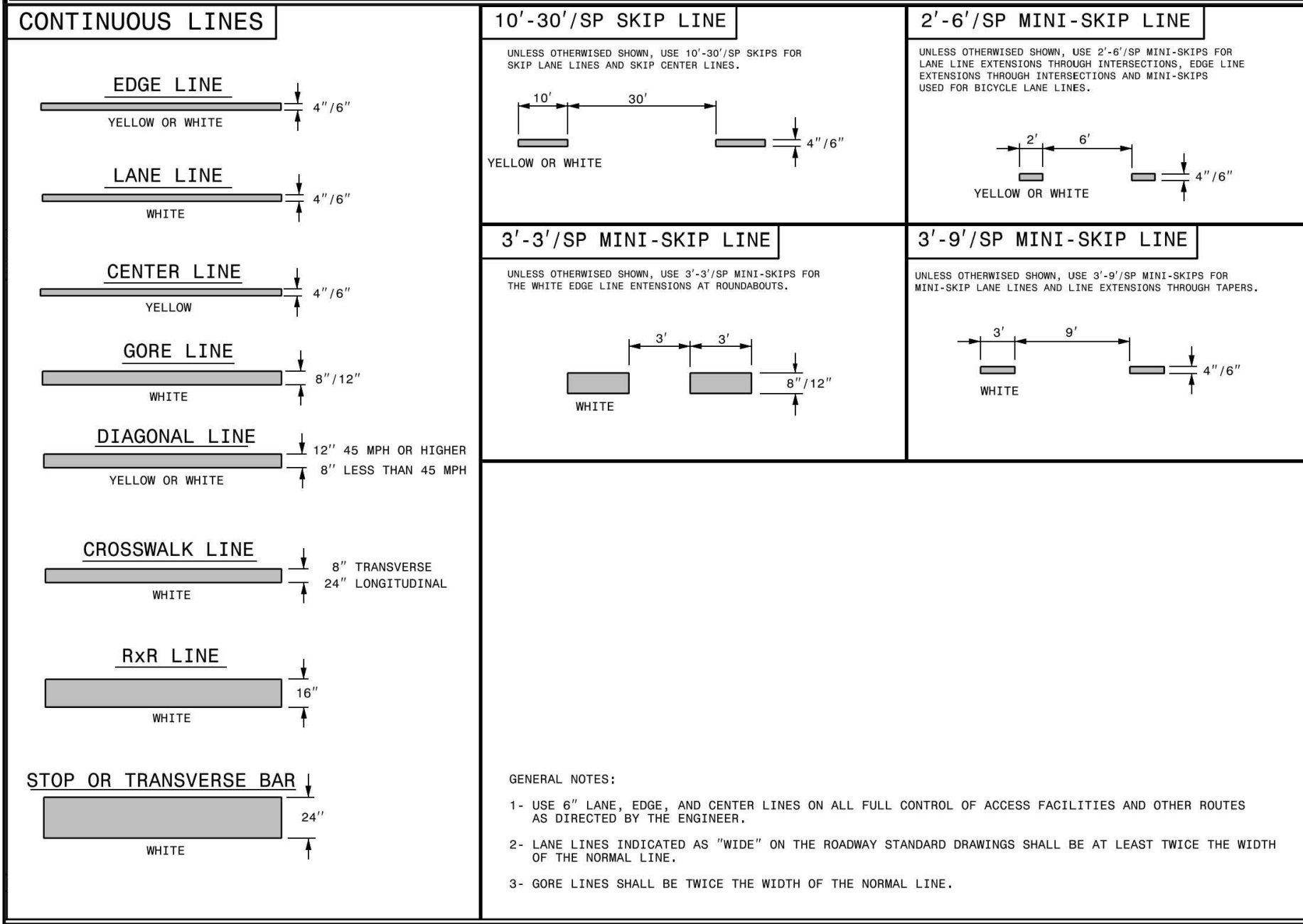
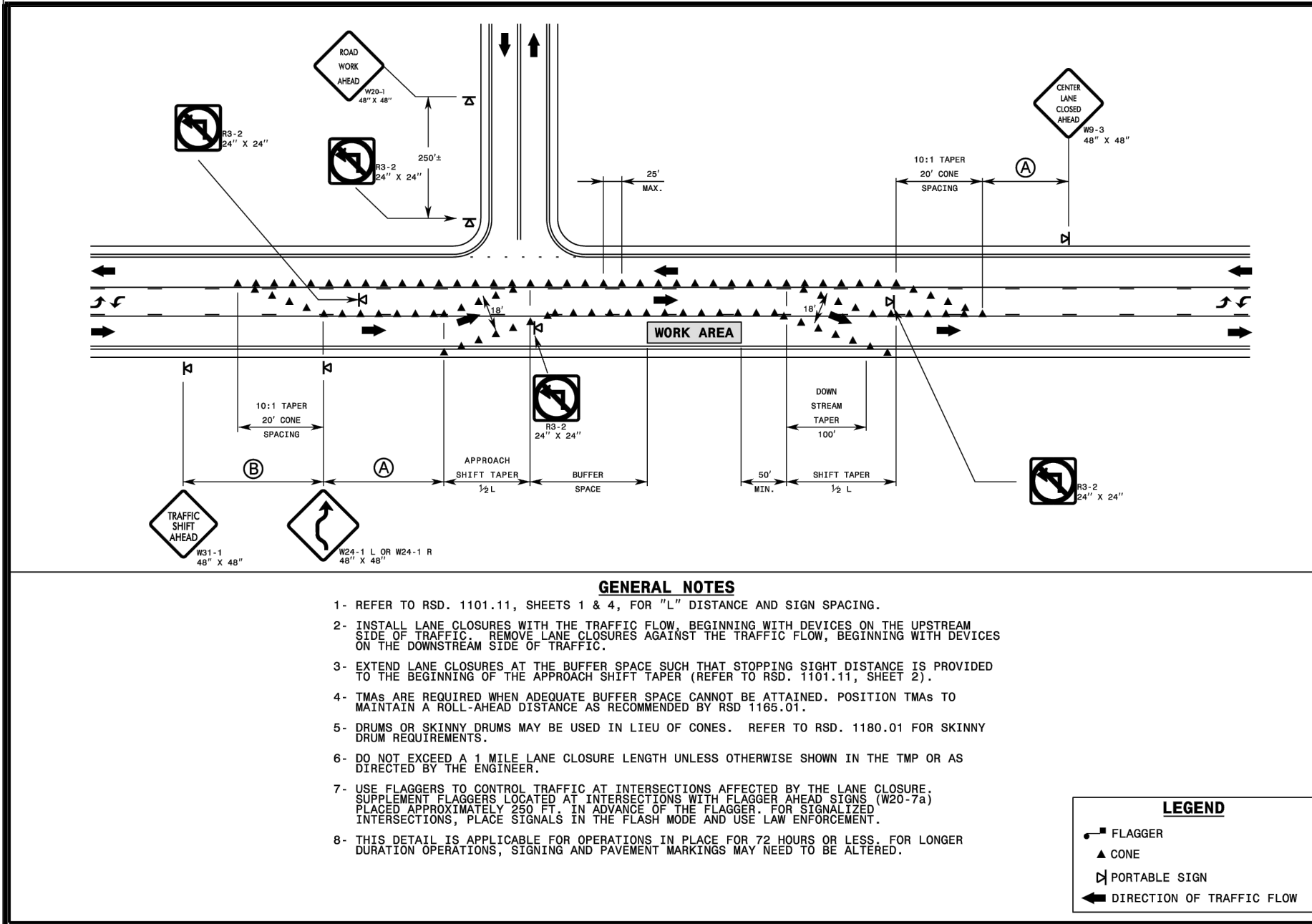
THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
DRAINAGE
DETAILS

SHEET NO.:
CD11





AMERICAN Engineering

American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607

PROFESSIONAL ENGINEER

NO. 30528

EXPIRATION DATE 12/31/2025

RENEWAL DATE 12/31/2025

REVISION:

NO.

DATE

REVISION

1

06-03-2025

CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1

2

04-01-2025

CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2

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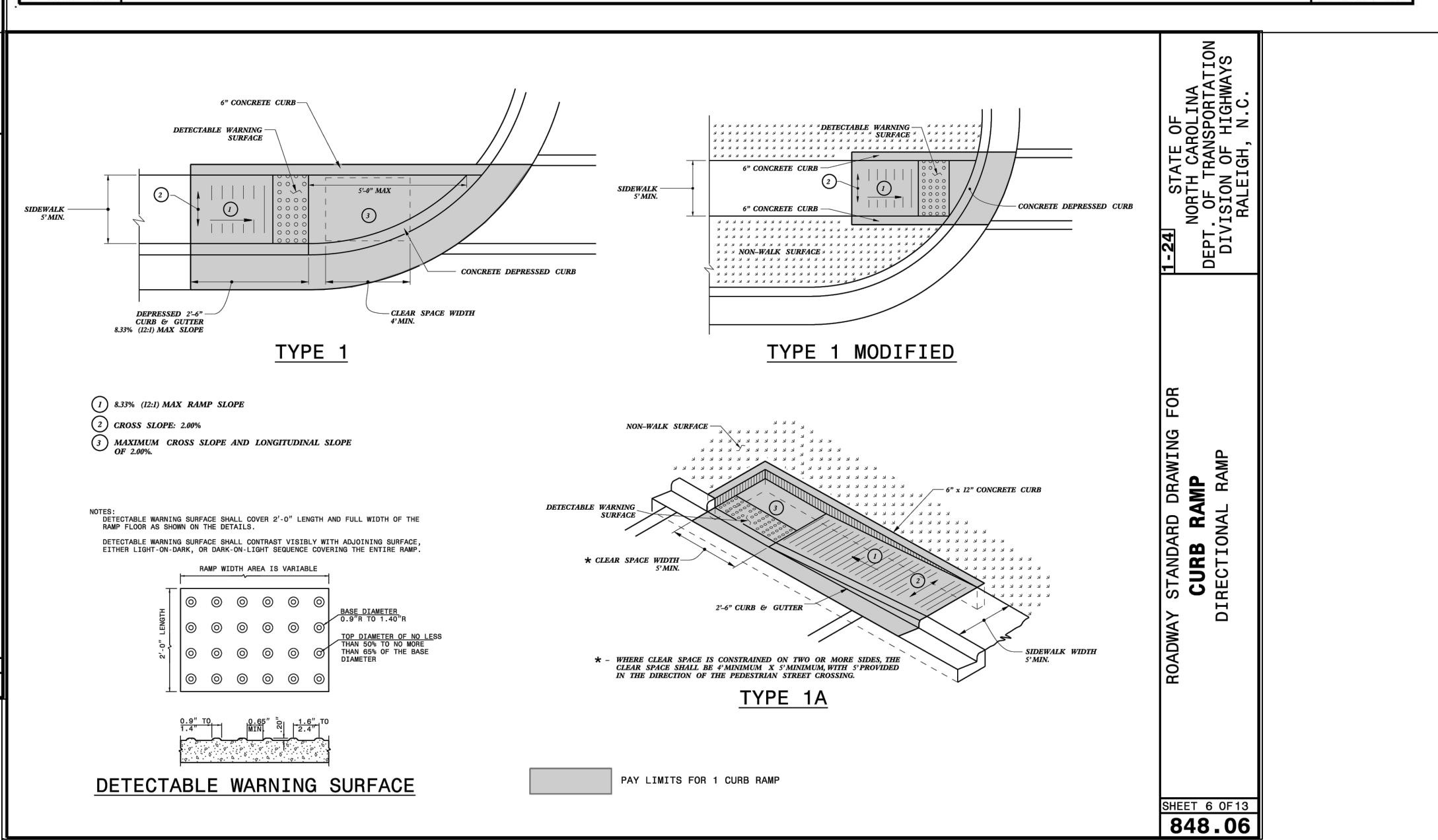
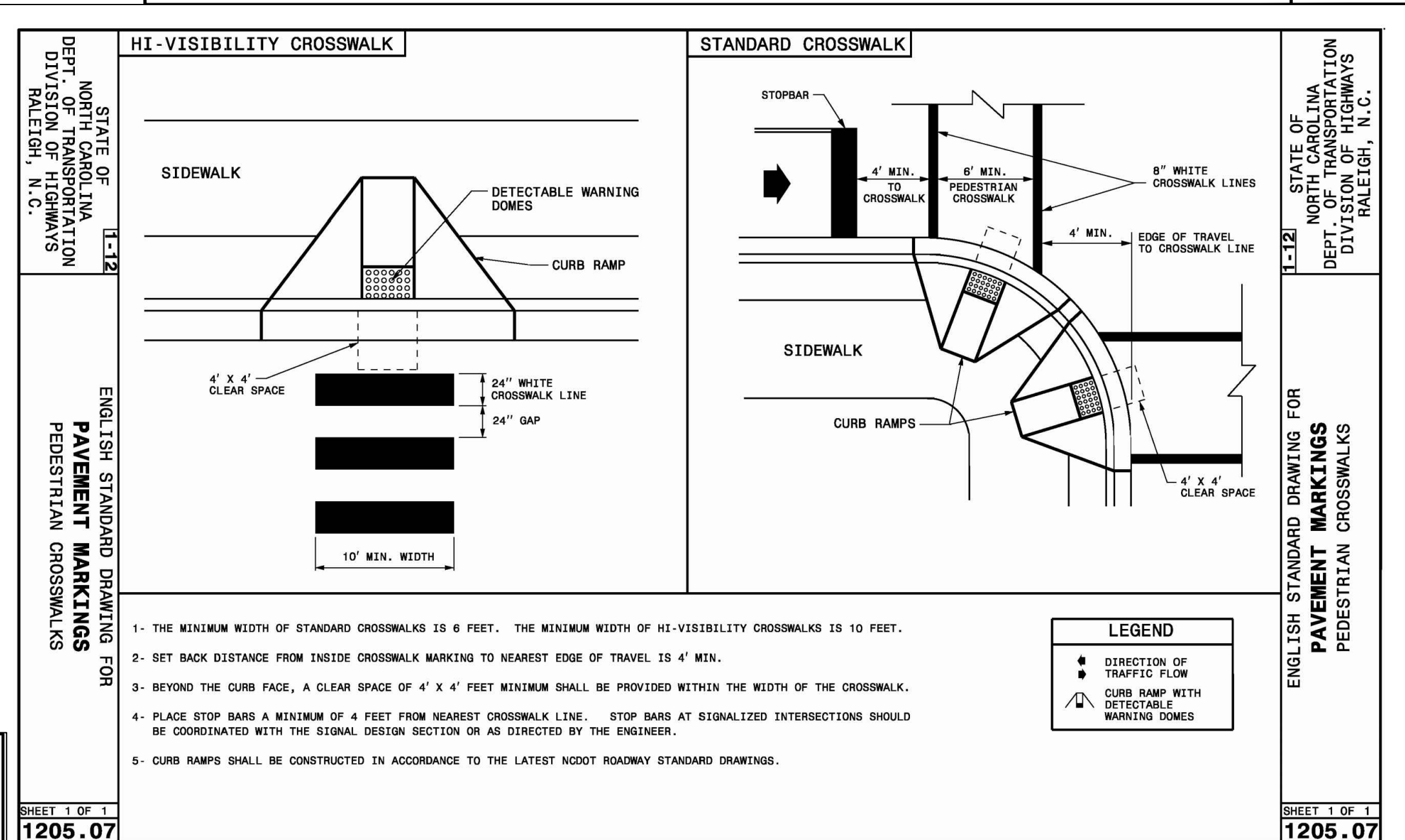
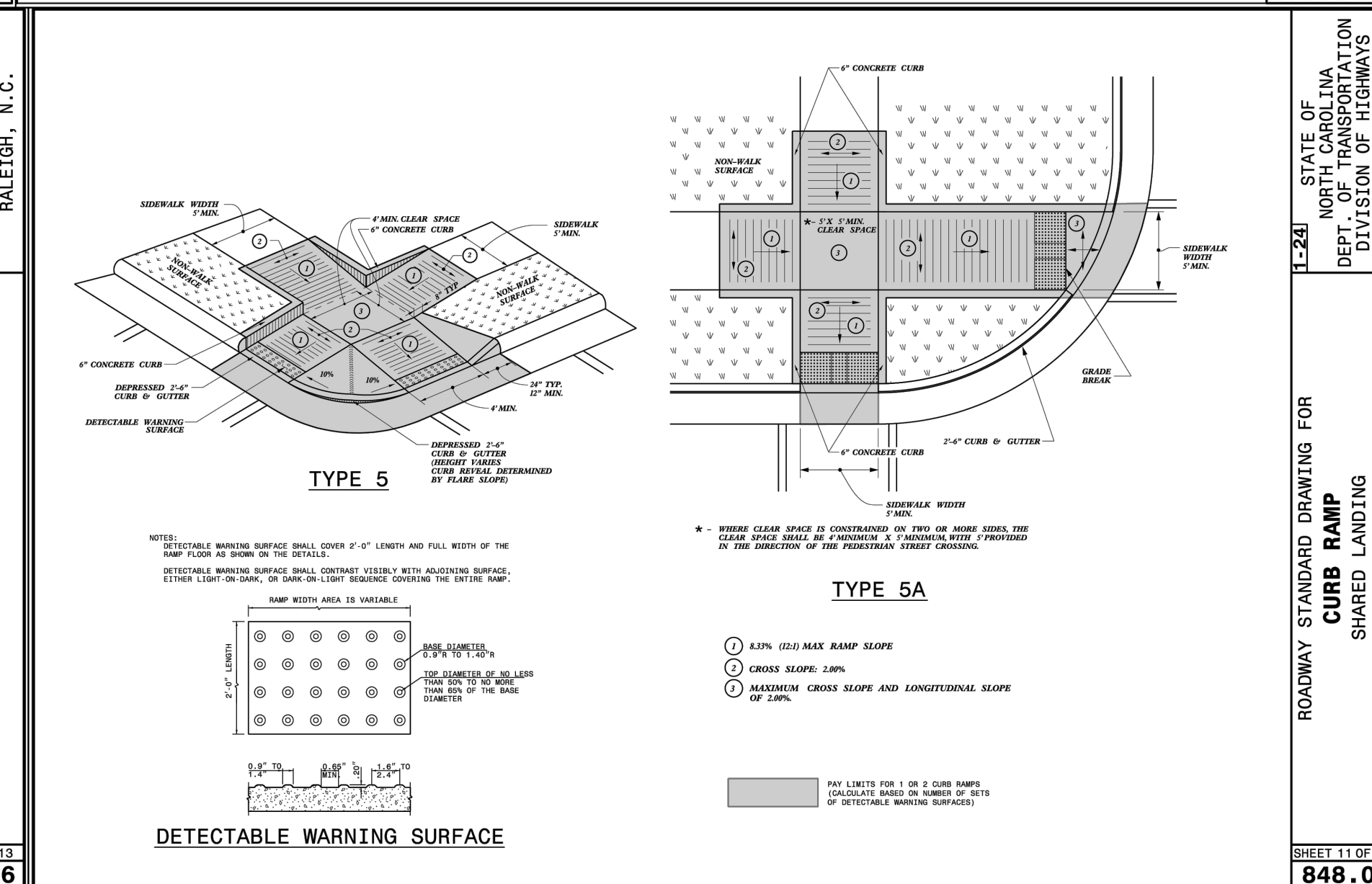
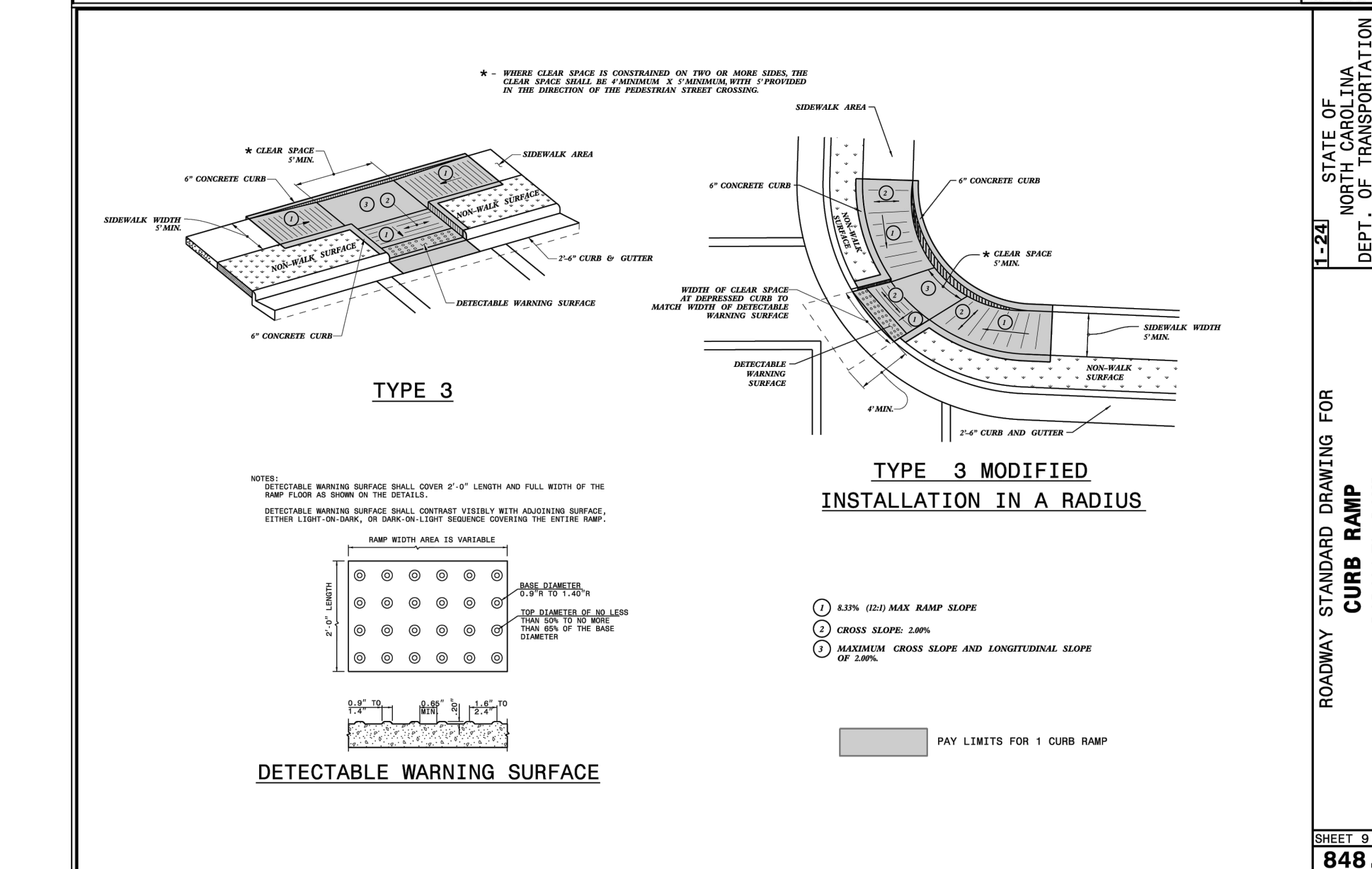
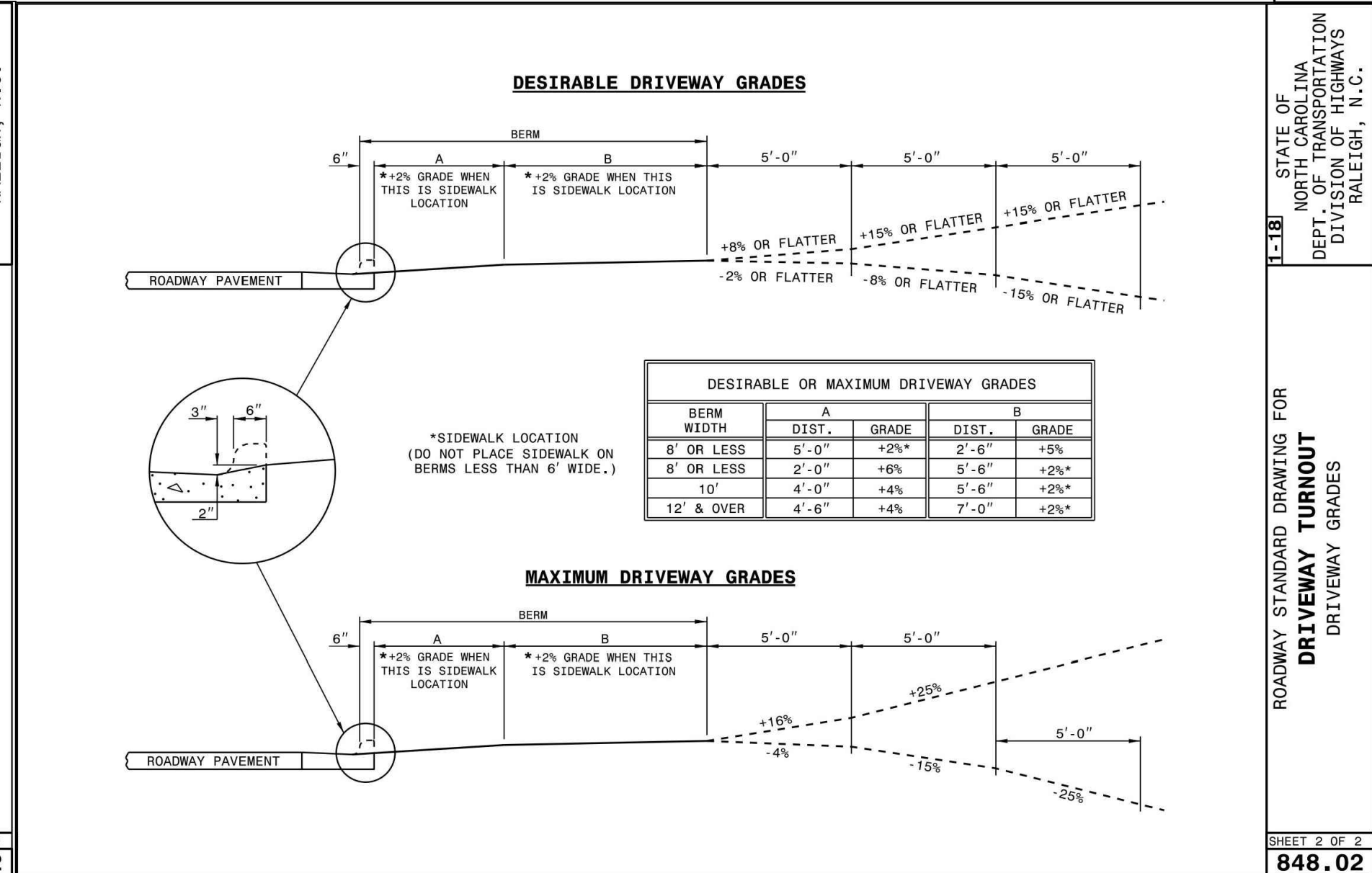
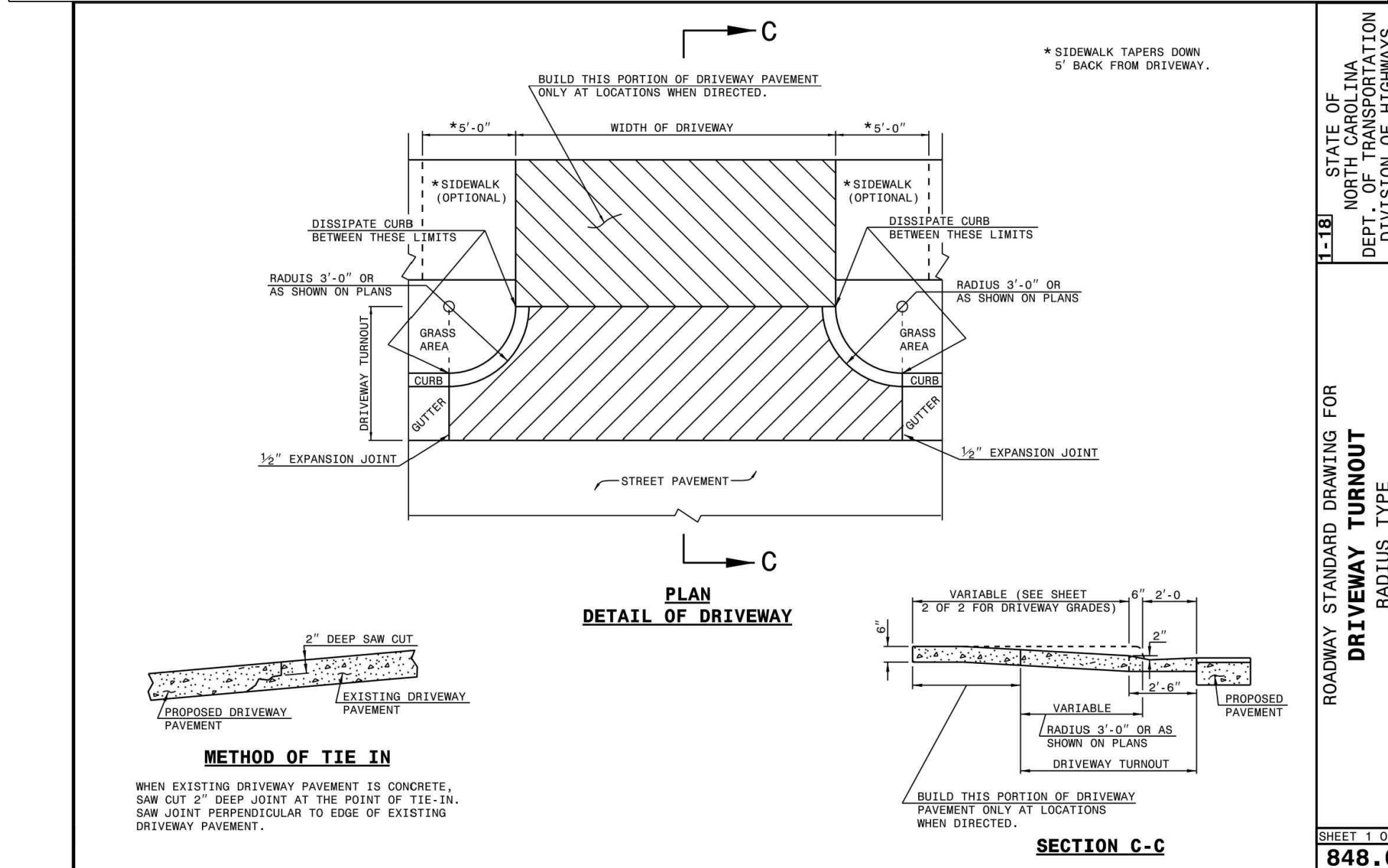
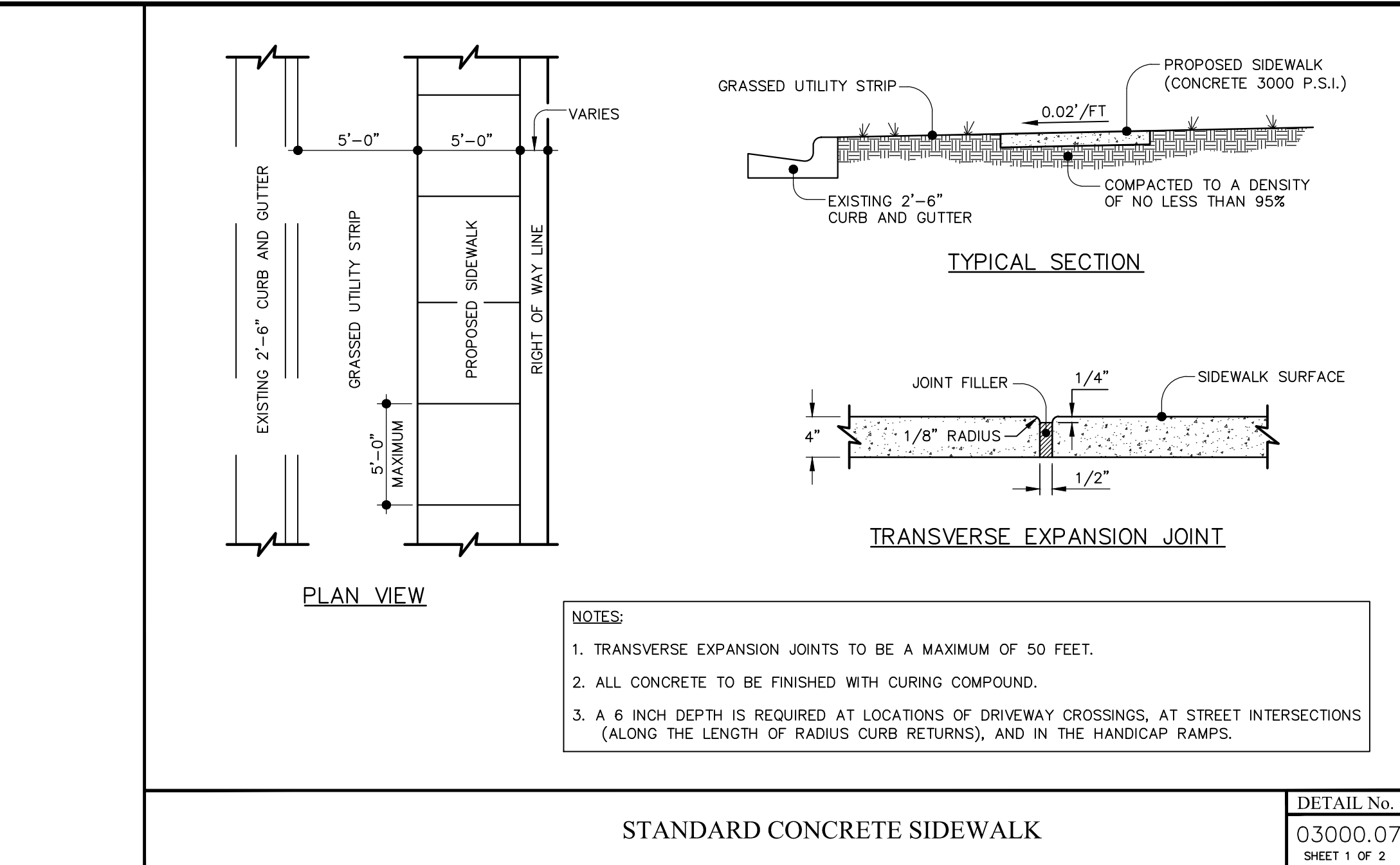
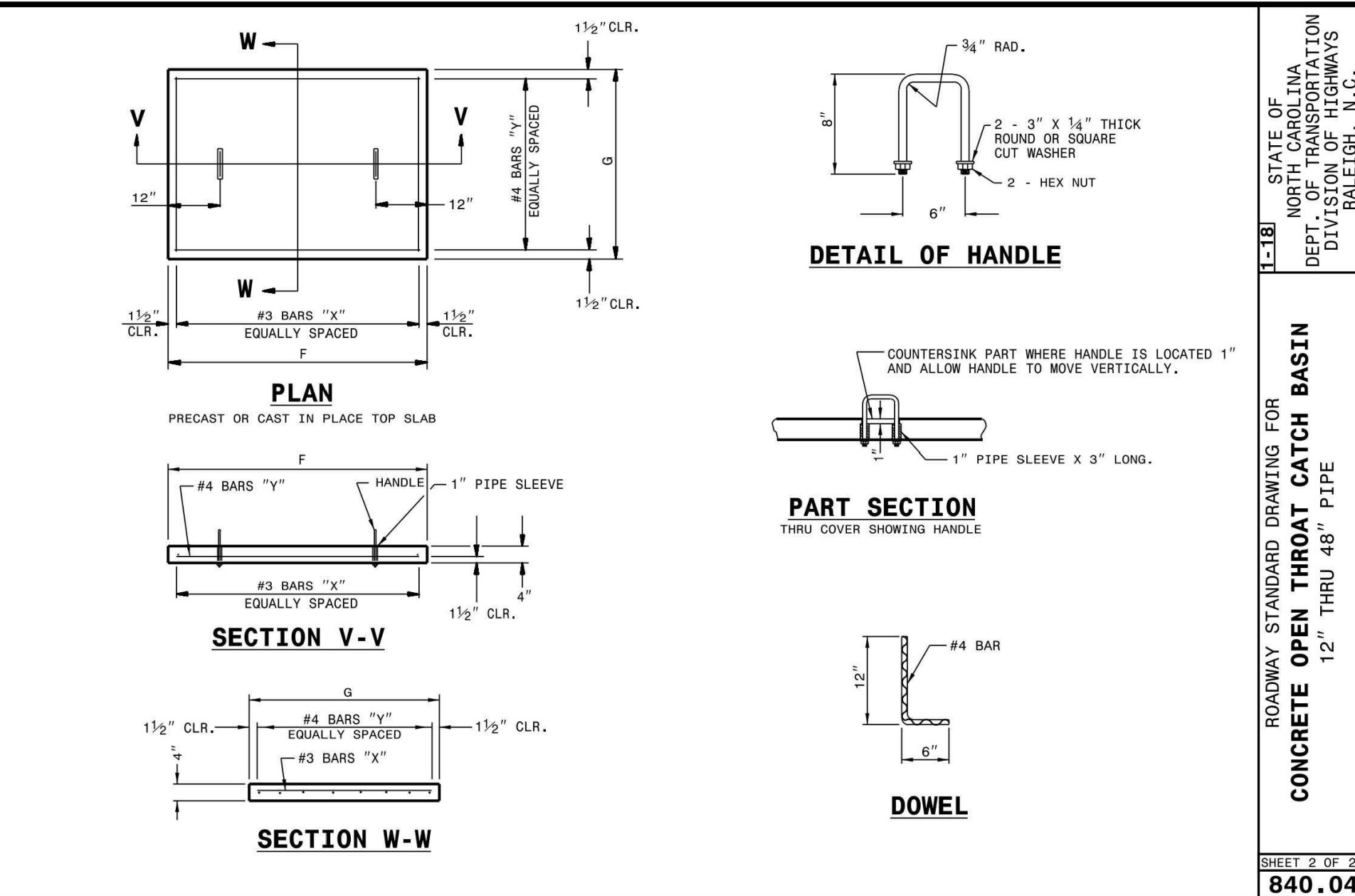
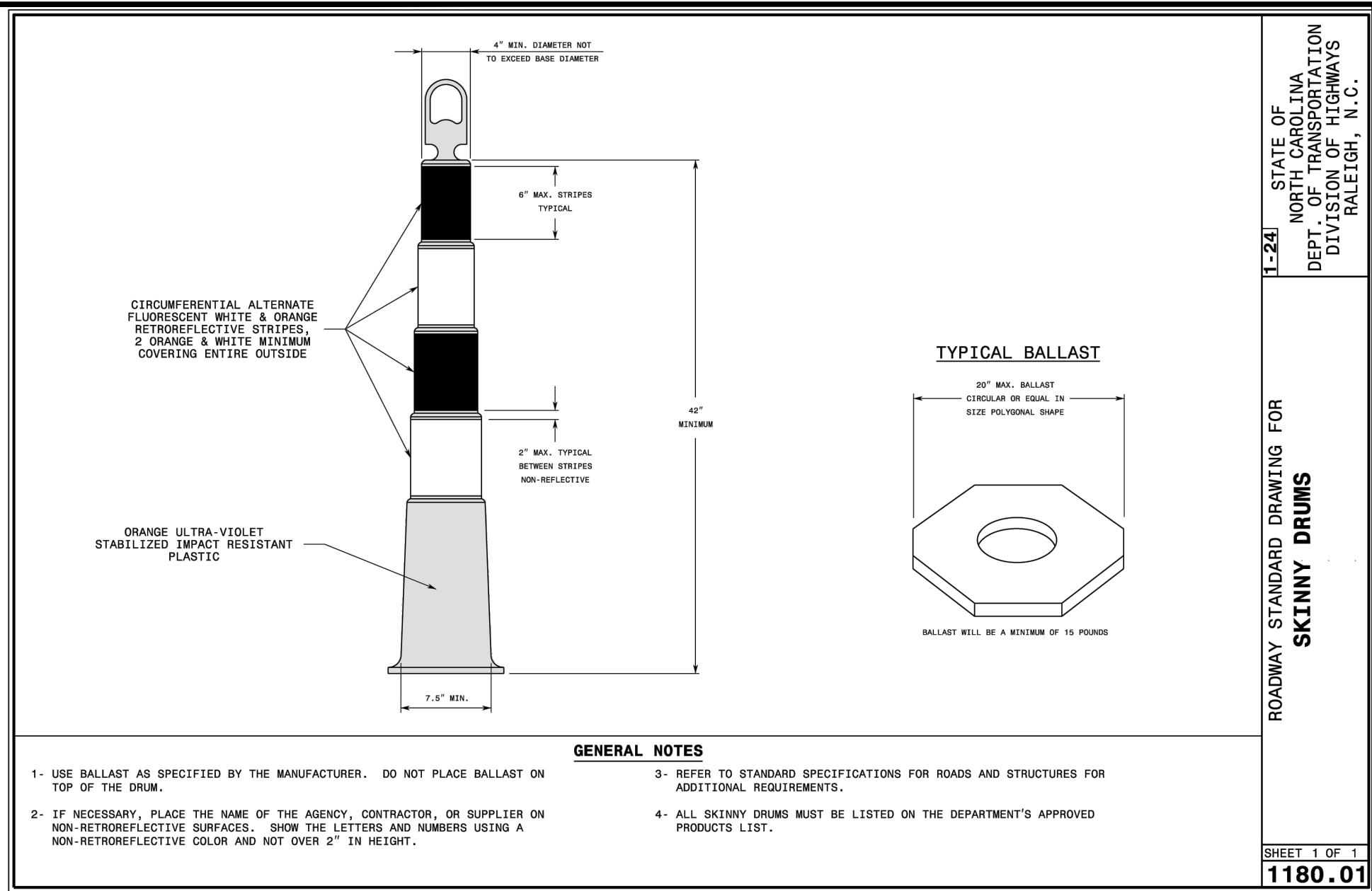
THE PRESERVE AT MOODY FARM CID-24-09 ROLESVILLE ROAD WAKE COUNTY, NC

JOB NUMBER: 21-002
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SHEET TITLE:
SITE DETAILS

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SHEET TITLE:
SITE DETAILS

North 811

*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-432-4949
Remote Ticket Entry
http://nc811.org/remoteticketentry.htm



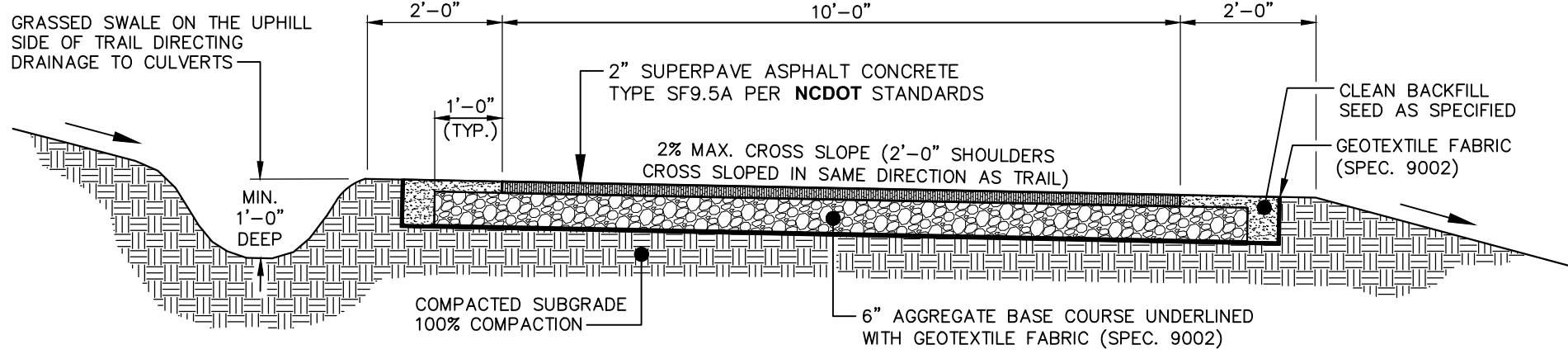
NO.	DATE	REVISION
1	07-05-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1
2	04-07-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2

STIPULATION FOR REUSE

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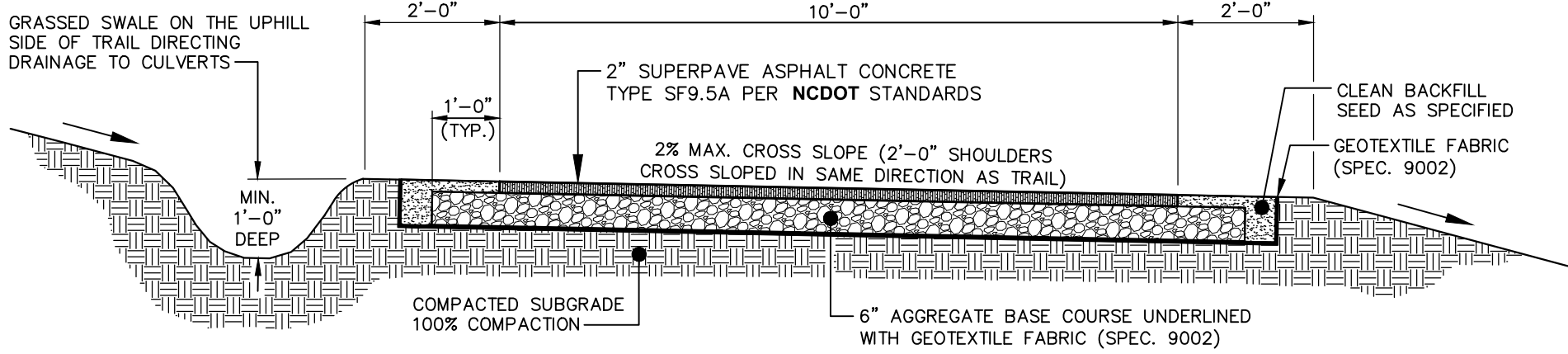
THE PRESERVE AT MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025
SHEET TITLE: **SITE DETAILS**
SHEET NO.: **CD15**



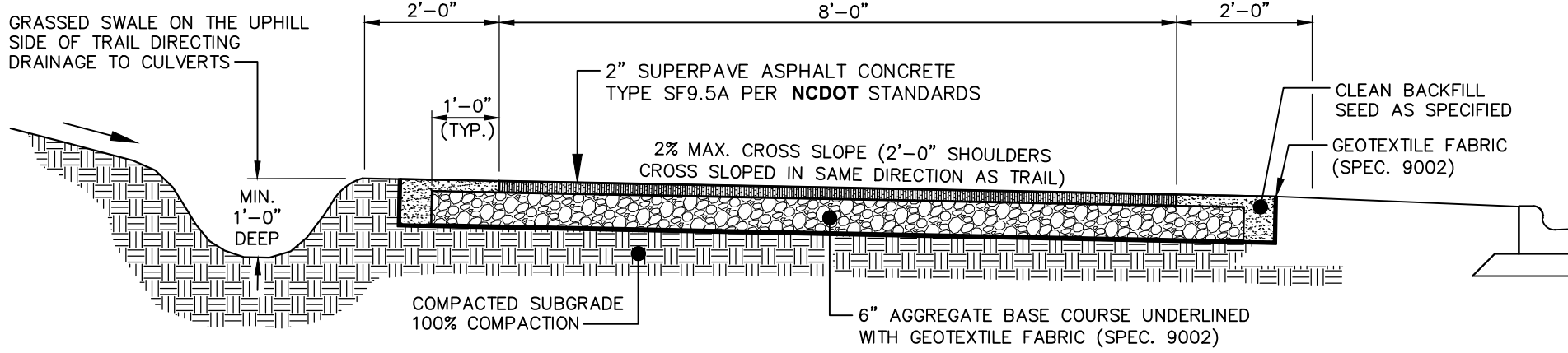
- NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ALL SLOPES DISTURBED BY CONSTRUCTION.
 2. NO ABOVE GROUND UTILITIES OR UTILITY SURFACE COVERS/PLATES/MANHOLES SHALL BE LOCATED WITHIN TRAIL AND SHALL BE MINIMUM 2 FEET FROM THE EDGE OF TRAIL. RAISED MANHOLES SHALL BE MINIMUM 4 FEET FROM TRAIL EDGE.
 3. ALL TRAILS SHALL BE LOCATED MINIMUM 5 FEET FROM THE BACK OF CURB.
 4. SIDE SLOPES SHALL NOT EXCEED 3:1. CUT & FILL SLOPES SHALL TIE INTO EXISTING SLOPES TO CREATE AN EVEN TRANSITION.
 5. CROSS SLOPE TYPICALLY TO LOW SIDE BUT CROSS SLOPE TO INSIDE OF DOWNHILL CURVES, WITH GRADUAL TRANSITIONS BETWEEN ANY CROSS SLOPE DIRECTION CHANGES.

STANDARD 10-FT/STREET-SIDE TRAIL ASPHALT GREENWAY TRAIL



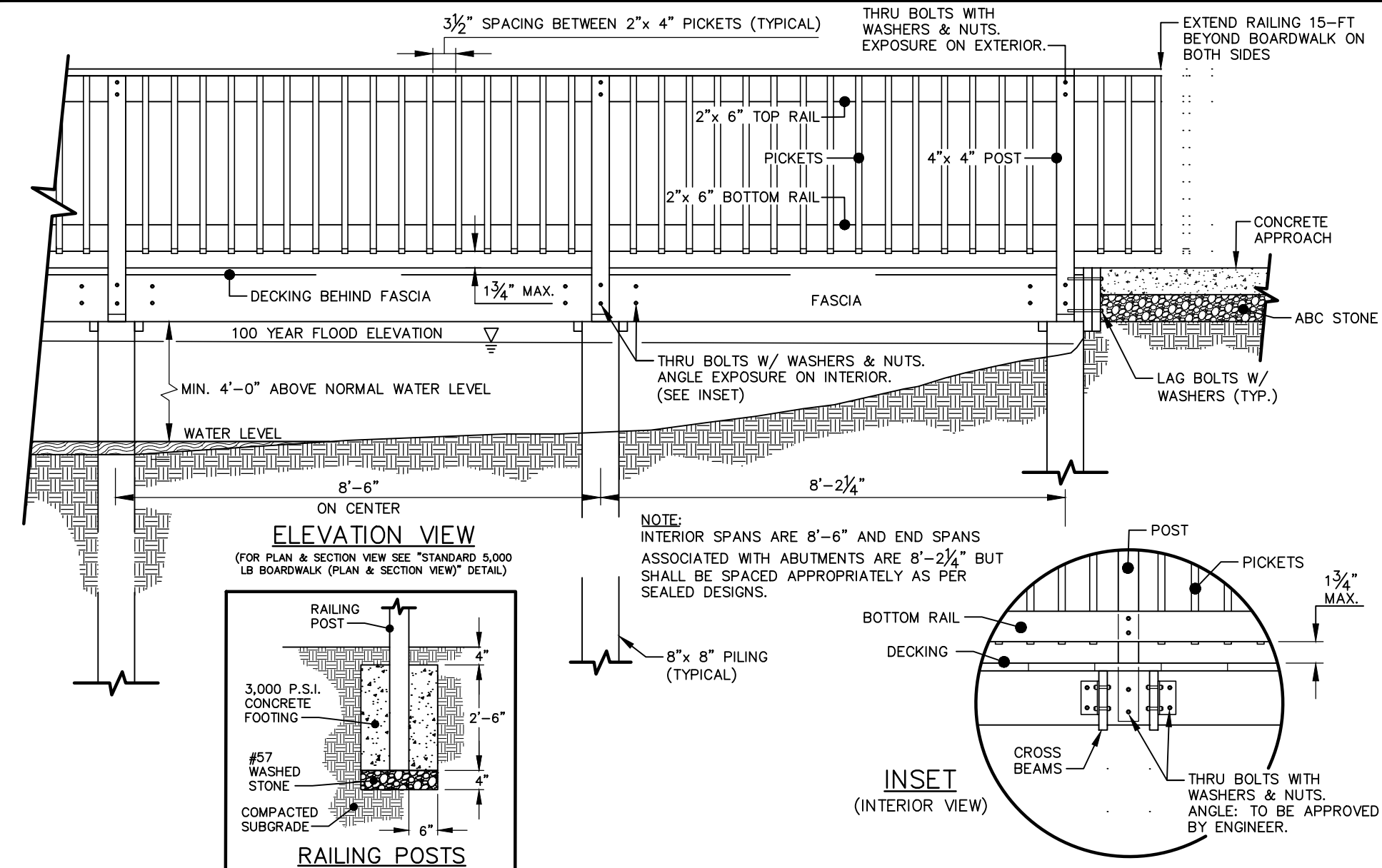
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STANDARD 10-FT GREENWAY TRAIL

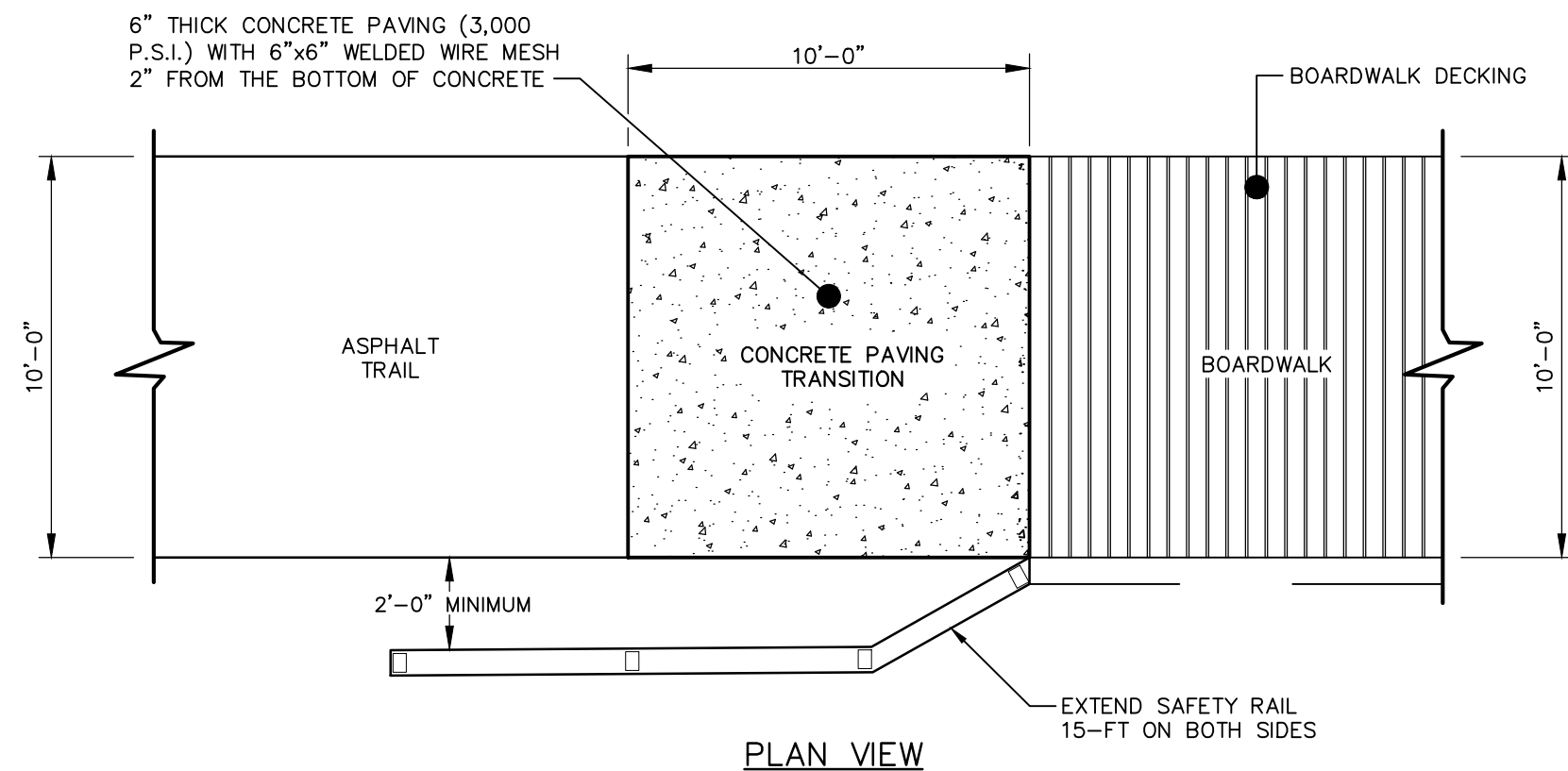


- NOTES:
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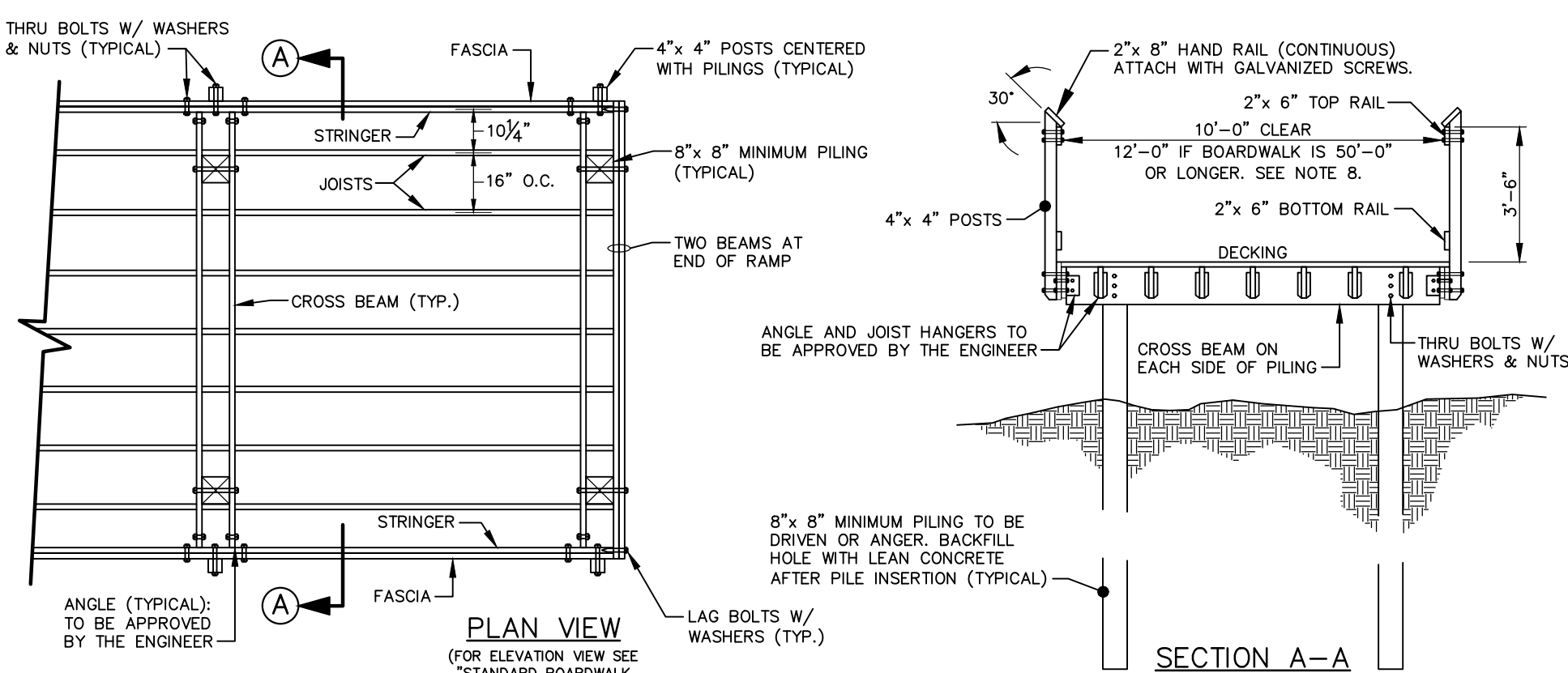
STANDARD 8-FT ROADWAY TRAIL



STANDARD BOARDWALK (ELEVATION VIEW)

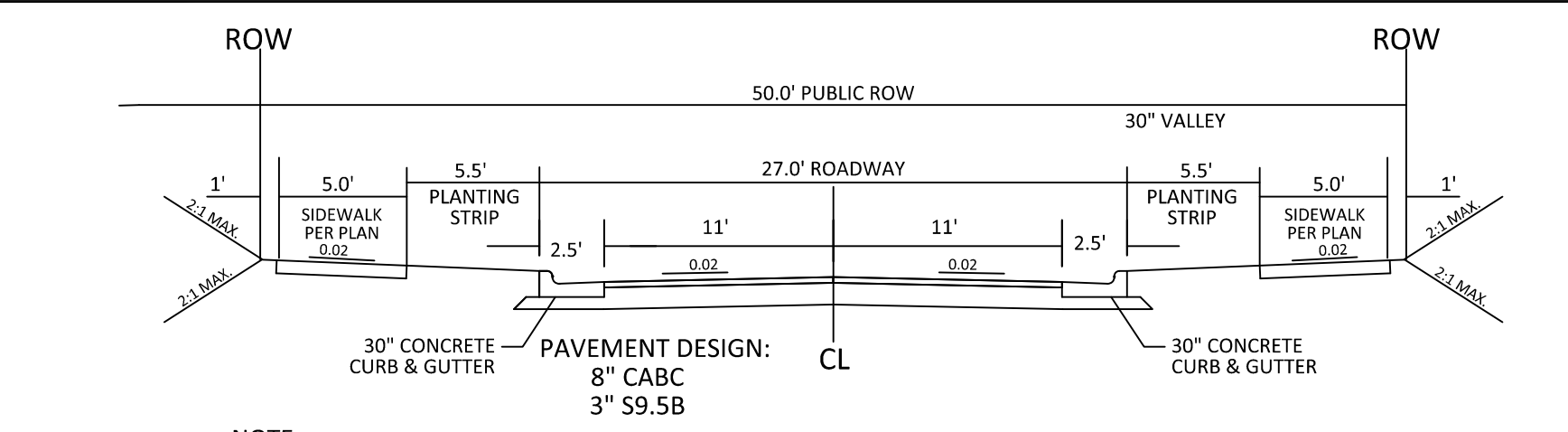


STANDARD 5,000 LB BOARDWALK APPROACH



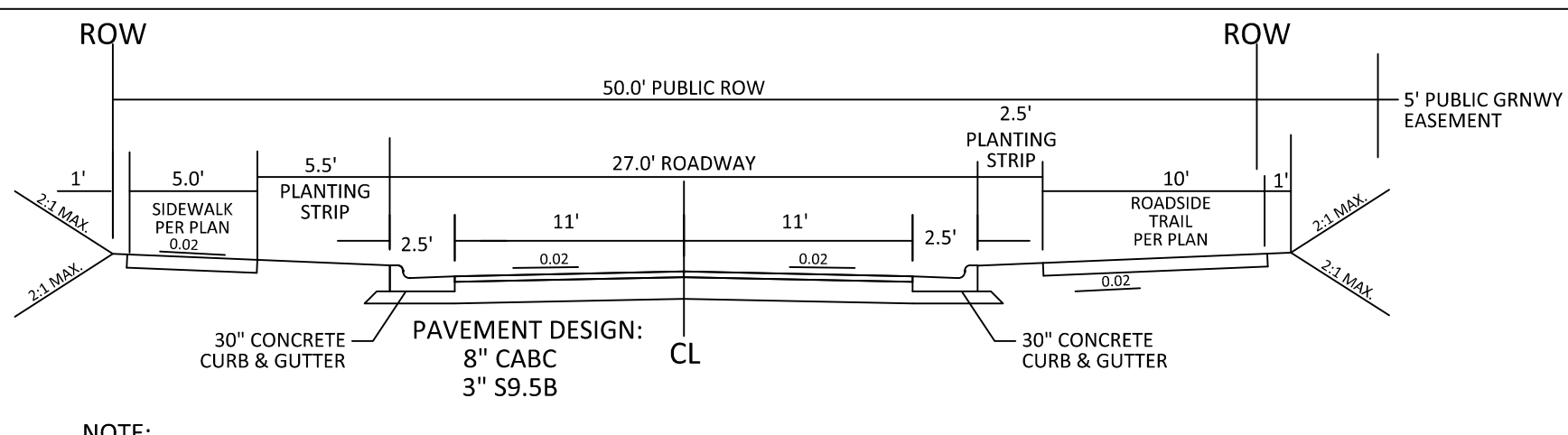
- NOTES:
1. MINIMUM PILE PENETRATION FOR PIERS SHALL BE 10 FEET (OR APPROVED DEPTH BY GEOTECHNICAL ENGINEER).
 2. SMALL MEMBERS SHALL HAVE PRE-DRILLED HOLES TO PREVENT SPLITTING DURING CONSTRUCTION. DECKING TO BE ATTACHED TO JOISTS USING GALVANIZED SCREWS & HARDWARE (ALL WOODEN MEMBERS SHALL BE BOLTED OR SCREWED TOGETHER. NO NAIL CONNECTIONS).
 3. ALL BOLTS, NUTS, WASHERS, ETC. SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A153.
 4. TIMBER BOARDWALK IS DESIGNED IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (17 EDITION - 2002). DESIGN LIVE LOAD IS SMALL VEHICLE OF 5000 POUNDS, 2500 POUNDS PER AXLE WITH A MINIMUM 96 INCH WHEEL BASE.
 5. SITE SOIL PROPERTIES ARE ASSUMED TO SUPPORT FOUNDATION LOADS. CONTRACTOR SHALL PROVIDE GEOTECHNICAL REPORT TO THE ENGINEER INDICATING THE SITE SOIL PROPERTIES THAT CAN SUPPORT FOUNDATION LOADS PRIOR TO BEGINNING CONSTRUCTION.
 6. JOIST HANGER SHALL BE CAPABLE OF SUPPORTING A MINIMUM SAFE WORKING LOAD OF 3150 POUNDS AND SHALL BE GALVANIZED.
 7. STRUCTURAL ENGINEER SHALL SIZE ALL LUMBER AND SPACING APPROPRIATELY TO MEET CAPACITY REQUIREMENTS, AND SHALL PROVIDE A SEALED CERTIFICATION TO TOWN THAT STRUCTURE WAS CONSTRUCTED IN ACCORDANCE WITH PLANS AND TOWN SPECIFICATIONS.
 8. IF RUNNING SLOPE EXCEEDS 5%, HANDRAILS SHALL BE PROVIDED IN ACCORDANCE WITH AASHTO DESIGN REQUIREMENTS; 10 TO 12 FEET CLEARANCE, AS INDICATED IN SECTION A-A, SHALL BE BETWEEN HANDRAILS.

STANDARD 5,000 LB BOARDWALK (PLAN & SECTION VIEW)



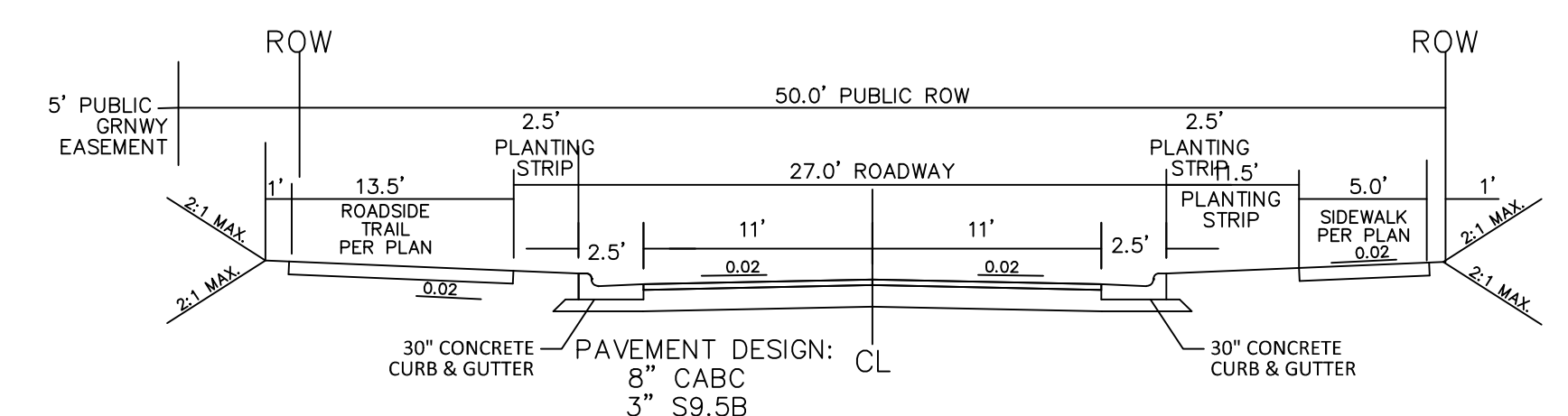
- NOTE:
1. NORMAL CROWN OF 0.02 UNLESS OTHERWISE DIRECTED BY TOWN ENGINEER.
 2. ASPHALT WILL BE INSTALLED AT A MIN. 1.5" LIFTS.

27' B-B ON A 50' R/W
TYPICAL SECTION



- NOTE:
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 2. ASPHALT WILL BE INSTALLED AT A MIN. 1.5" LIFTS.

27' B-B ON A 50' R/W
TYPICAL SECTION



- NOTE:
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 2. ASPHALT WILL BE INSTALLED AT A MIN. 1.5" LIFTS.

27' B-B ON A 50' R/W
TYPICAL SECTION



NO.	DATE	REVISION
1	07-03-2023	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1
2	04-07-2023	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2

STIPULATION FOR REUSE

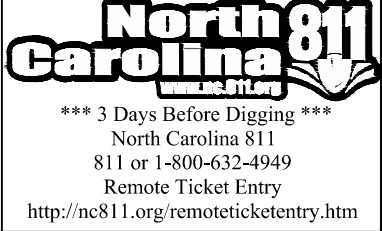
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THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

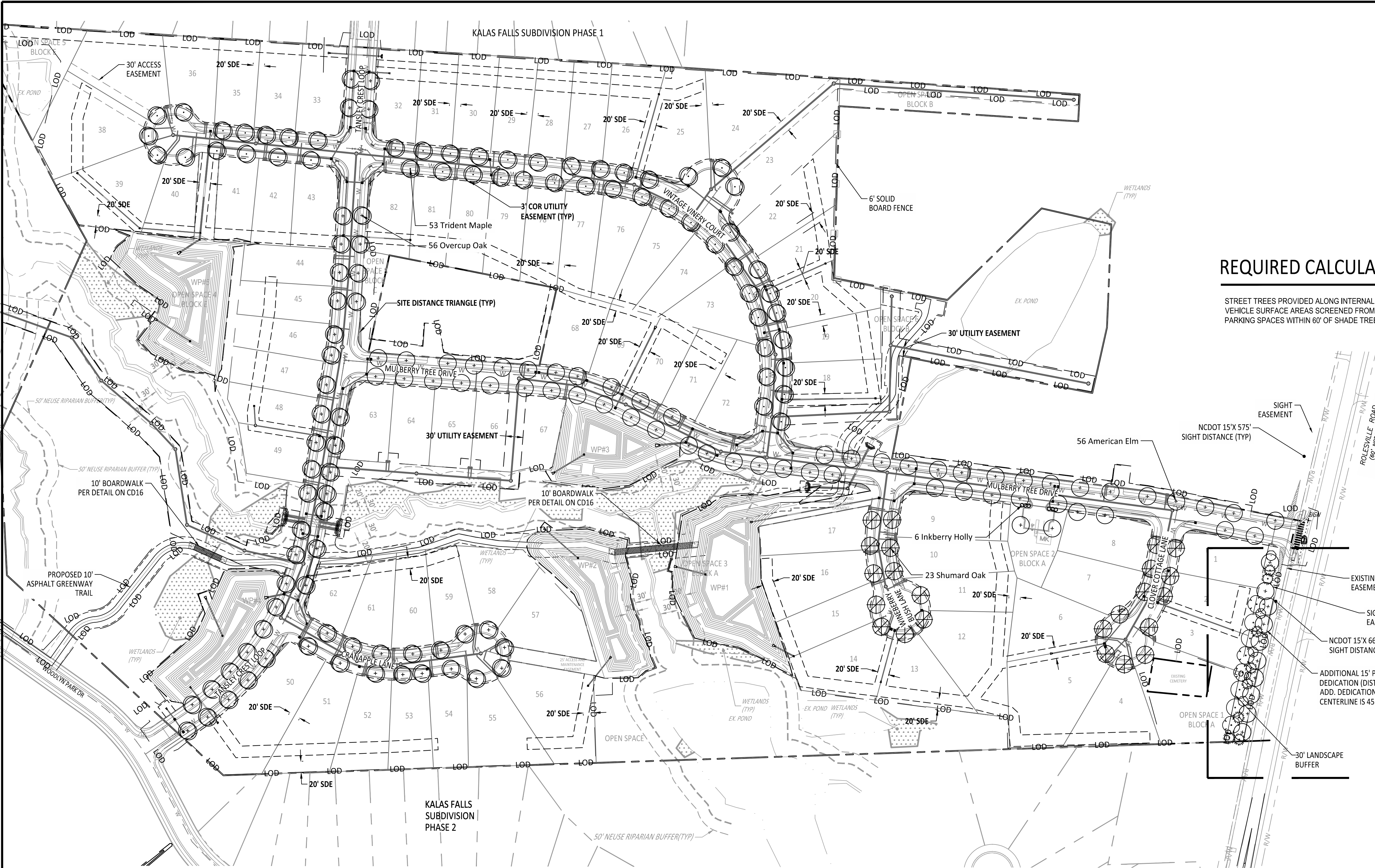
JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

SHEET TITLE:
**SITE
DETAILS**

SHEET NO.:
CD16



23:00h\11-000_Moody Farm Development\Task 182100020\Land\Working Draw\Construction Set\13.0 Landscape Plan.dwg
April 1, 2025



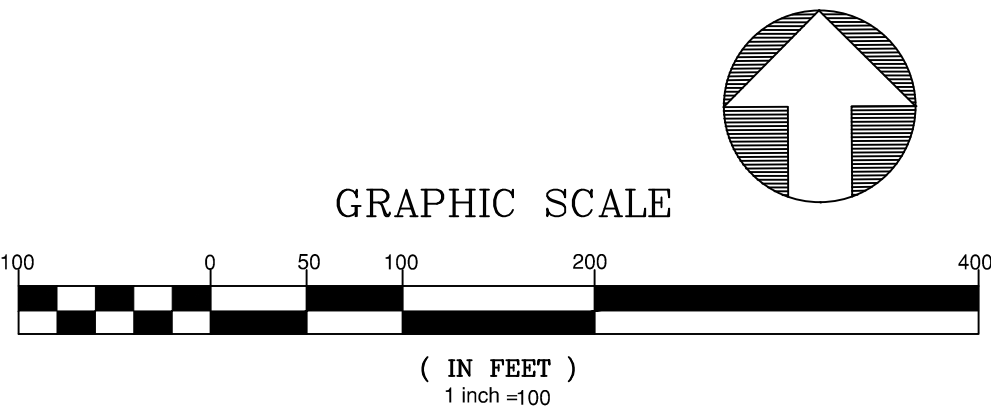
REQUIRED CALCULATIONS

STREET TREES PROVIDED ALONG INTERNAL ROADS AT 50' O.C.
VEHICLE SURFACE AREAS SCREENED FROM OFF-SITE WITH 3' EVERGREEN HEDGE
PARKING SPACES WITHIN 60' OF SHADE TREE

SEE SHEET L2 FOR
BUFFER PLANTING
ENLARGEMENT

PLANT SCHEDULE

KEY	QUAN.	BOTANICAL NAME	COMMON NAME	SIZE	CONT.	NOTES
TREES						
	4	Ginkgo biloba 'Goldspire'	Goldspire Ginkgo	2.5" Cal., 8' Ht.	B & B	Large mature tree
	4	Juniperus virginiana	Eastern Red Cedar	1.5" Cal., 6' Ht.	B & B	Evergreen tree
	4	Nyssa sylvatica 'Green Gable'	Green Gable Blackgum	1.5" Cal., 6' Ht.	B & B	Small mature tree
	23	Quercus shumardii	Shumard Oak	2.5" Cal., 8' Ht.	B & B	Large mature tree
	56	Quercus lyrata	Overcup Oak	2.5" Cal., 8' Ht.	B & B	Large mature tree
	8	Thuja occidentalis 'Emerald Green'	Emerald Green Arborvitae	1.5" Cal., 6' Ht.	B & B	Evergreen tree
	66	Ulmus americana	American Elm	2.5" Cal., 8' Ht.	B & B	Large mature tree
	53	Acer buergerianum	Trident Maple	2.5" Cal., 8' Ht.	B & B	Large mature tree
SHRUBS						
	6	Ilex glabra	Inkberry Holly	#3 Gallon	Cont.	Evergreen shrub



GENERAL NOTE: LOCATION OF STREET TREES MAY VARY DUE TO PROPOSED DRIVEWAYS. CONTRACTOR SHALL COORDINATE BETWEEN THE PROPOSED STREET TREES AND DRIVEWAYS. ENSURE A MINIMUM SPACING OF 15' BETWEEN SMALL STREET TREES, 25' BETWEEN MEDIUM STREET TREES, AND 35' BETWEEN LARGE STREET TREES IS MAINTAINED.

Public
Sewer Collection / Extension System
The City of Raleigh consents to the correction and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

Public
Water Distribution / Extension System
The City of Raleigh consents to the correction and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
City of Raleigh
Public Utilities Department Permit # _____

North 811
*** 3 Days Before Digging ***
North Carolina 811
811 or 1-800-632-4949
Remote Ticket Entry
<http://nc811.org/remoteticketentry.htm>



NO.	DATE	REVISION
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2

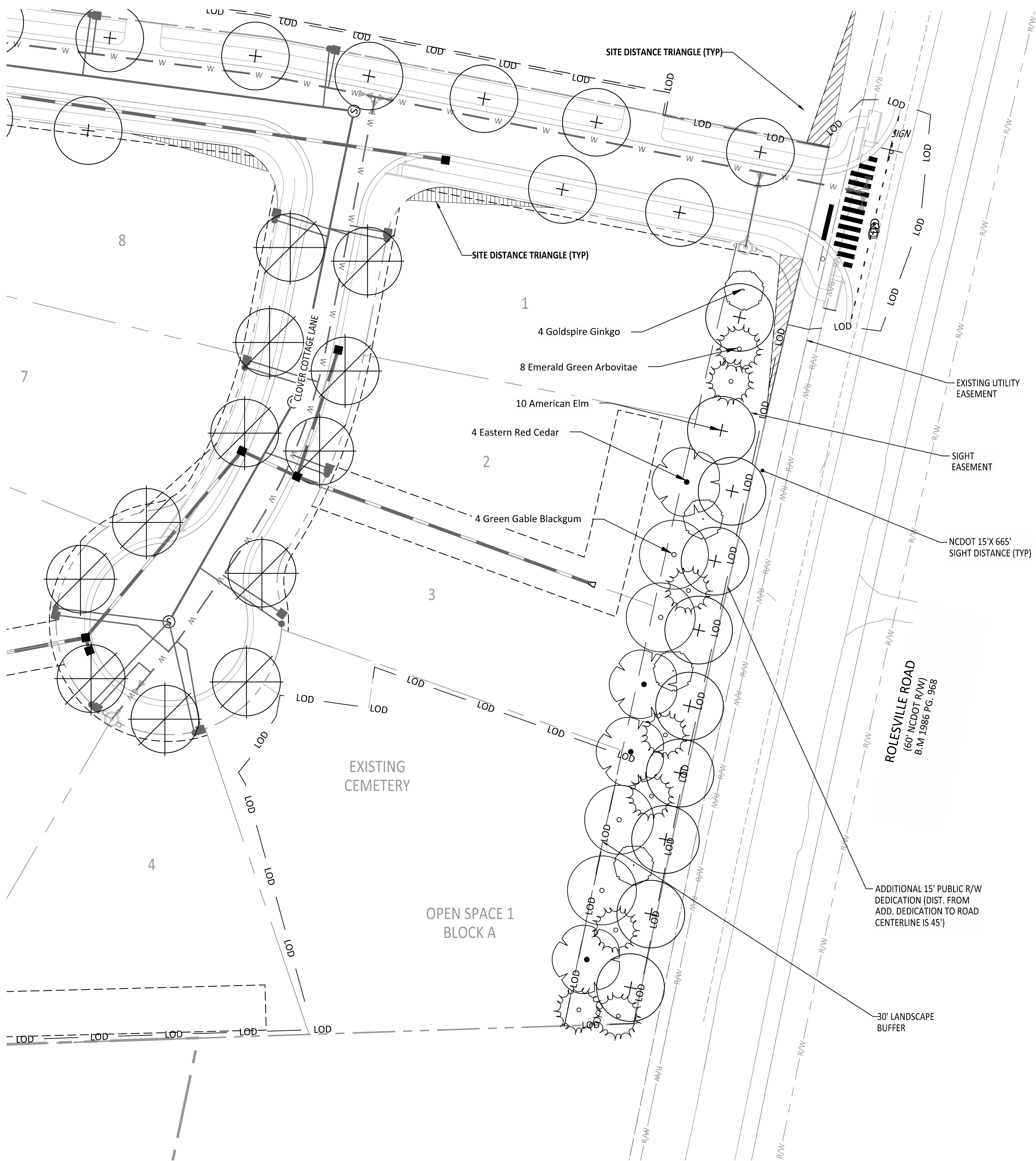
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THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025

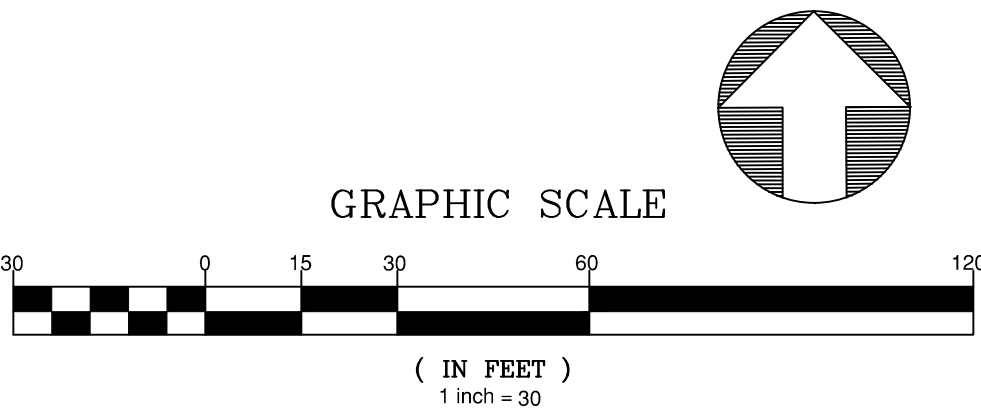
SHEET TITLE:
**LANDSCAPE
PLAN**

SHEET NO.:
L1



REQUIRED CALCULATIONS

STREET BUFFER ALONG ROLESVILLE ROAD: (387.504 LF)
PER UDO SECTION 14.4
REQUIRED: 30' WIDTH FROM ROW LINE
PER 40 LF: 1 STREET TREE AND 2 UNDERSTORY ORNAMENTAL TREES
REQUIRED PLANTINGS: 10 STREET TREES, 20 UNDERSTORY ORNAMENTAL TREES
PROVIDED: 10 STREET TREES, 20 UNDERSTORY ORNAMENTAL TREES



Public Sewer Collection / Extension System The City of Raleigh consents to the correction and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____	Public Water Distribution / Extension System The City of Raleigh consents to the correction and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # _____
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AMERICAN
Engineering
American Engineering Associates - Southeast, P.A.
4020 Westchase Boulevard, Suite 450
Raleigh, NC 27607
919-469-1101

NORTH CAROLINA
C-652
AMERICAN ENGINEERING ASSOCIATES - SOUTHEAST, P.A.
PRELIMINARY
- DO NOT USE FOR
CONSTRUCTION
AUSTIN E. DICKSON

NO.	DATE	REVISION
1	02-03-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #1
2	04-01-2025	CONSTRUCTION INFRASTRUCTURE DRAWING SUBMITTAL #2

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THE PRESERVE
AT
MOODY FARM
CID-24-09
ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002
CHECKED BY: JK
DRAWN BY: RC & SM
DATE: 02/03/2025
SHEET TITLE:
BUFFER PLAN
SHEET NO.: L2

PLANT DETAILS

PLANT NOTES

PLANT INSTALLATION & MAINTENANCE NOTES:

1. ALL LANDSCAPING SHALL BE OF NURSERY STOCK QUALITY AND SHALL BE INSTALLED TO ACCEPTED NC LANDSCAPE CONTRACTOR STANDARDS.
2. ALL LANDSCAPING SHALL BE ADAPTABLE TO CLIMATIC CONDITIONS OF THE AREA.
3. LARGE TREES SHOULD NOT BE PLANTED WITHIN EASEMENTS AND A MINIMUM OF 6' FROM UTILITY LINES, UNLESS OTHERWISE SPECIFIED BY REVIEWING AGENCY. SHRUBS MAY BE PLANTED IN EASEMENTS, BUT A MINIMUM OF 3' FROM UTILITY LINES, UNLESS OTHERWISE SPECIFIED BY REVIEWING AGENCY.
4. ALL LANDSCAPING SHALL BE MAINTAINED IN GOOD CONDITION.
5. ALL LANDSCAPING SHALL AT ALL TIMES PRESENT A HEALTHY, NEAT, CLEAN, ORDERLY, DISEASE-FREE AND PEST-FREE APPEARANCE.
6. ALL LANDSCAPING SOIL AND FILL SHALL BE FREE FROM WEEDS, REFUSE, AND DEBRIS AT ALL TIMES.
7. EXCESS SOIL SHALL BE DISPOSED OF IN A LEGAL MANNER.
8. ANY DEAD PLANT MATERIAL OR MATERIAL THAT FAILS TO SHOW HEALTHY GROWTH MUST BE REMOVED WITHIN 30 DAYS.
9. REPLACEMENT OF REMOVED PLANT MATERIAL MUST TAKE PLACE WITHIN 90 DAYS OF REMOVAL OR NOTIFICATION BY THE TOWN, WHICHEVER OCCURS FIRST.
10. ANY REPLACEMENT PLANT MATERIAL MUST MEET THE SIZE AND OTHER CHARACTERISTICS OF NEWLY PLANTED MATERIAL.
11. IF 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. AFTER THE WARRANTY PERIOD HAS ENDED, STAKES AND GUYS SHALL BE REMOVED.
12. CONTRACTOR IS RESPONSIBLE TO CONTACT MISS UTILITIES (811) 48 HOURS PRIOR TO COMMENCEMENT OF WORK. CONTACT LANDSCAPE ARCHITECT IF FIELD CONFLICTS/DISCREPANCIES ARISE.
13. CONTRACTOR RESPONSIBLE TO VERIFY PLANT COUNTS. PLANTING PLAN SHALL GOVERN IN THE CASE OF A CONFLICT.
14. ALL PLANTS SHALL MEET OR EXCEED STANDARDS AS DETERMINED BY THE AMERICAN STANDARD OF NURSERY STOCK.
15. CONTRACTOR SHALL WARRANTY ALL PLANTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
16. WHEN POSSIBLE, PLANTING SHALL BE INSTALLED BETWEEN SEPTEMBER 1 - JUNE 30TH AND IN FAVORABLE WEATHER CONDITIONS. IF PLANTING MUST BE PERFORMED OUTSIDE OF SPECIFIED DATES, PLANTS MUST BE WATERED ON A REGULAR BASIS TO ENSURE VIABILITY.
17. PLANT VARIETIES, SIZES AND LAYOUT SHALL CONFORM ACCURATELY TO THE LANDSCAPE PLAN. CONTACT LANDSCAPE ARCHITECT FOR FIELD CONFLICTS.
18. DISTURBED AREAS SHALL BE SEEDED ACCORDING TO THE NOTES FOUND ON THIS PAGE.
19. PLANT SUBSTITUTIONS SHALL BE BROUGHT TO THE ATTENTION OF AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
20. MULCH USED ON-SITE SHALL BE OF A NON-DYED, NATURAL HARDWOOD VARIETY TO BE INSTALLED AT A MAXIMUM DEPTH OF 3", MINIMUM DEPTH OF 2".

GENERAL NOTES:

1. LOCATION OF STREET TREES MAY VARY DUE TO PROPOSED DRIVEWAYS. CONTRACTOR SHALL COORDINATE BETWEEN THE PROPOSED STREET TREES AND DRIVEWAYS. ENSURE A MINIMUM SPACING OF 15' BETWEEN SMALL STREET TREES, 25' BETWEEN MEDIUM STREET TREES, AND 35' BETWEEN LARGE STREET TREES IS MAINTAINED.

TOPSOIL / PLANTING MIX MINIMUM REQUIREMENTS:

1. TOPSOIL/PLANTING MIX SHOULD BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHOULD BE UNIFORM COMPOSITION THROUGHOUT, WITH ADMIXTURE OF SUBSOIL. IT SHOULD BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS AND OTHER EXTRANEOUS MATTER. TOPSOIL SHOULD NOT BE USED WHILE IN A FROZEN OR MUDDY CONDITION.
2. TOPSOIL/PLANTING MIX SHALL HAVE AN ACIDITY RANGE OF PH 5.5-7.0 AND THE FOLLOWING COMPOSITION:

CLAY (RED CLAY, WELL PULVERIZED)	MINIMUM 10%; MAXIMUM 35%
COMPOST*/ORGANIC	MINIMUM 5%; MAXIMUM 10%
SILT	MINIMUM 30%; MAXIMUM 50%
COARSE SAND (FREE OF ROCKS, 0.5 TO 1.0 MM F)	MINIMUM 30%; MAXIMUM 45%
3. ORGANIC MATERIAL SUCH AS SAWDUST OR LEAF MOLD THAT HAS COMPLETED THE DECOMPOSITION PROCESS
4. RECOMMENDATIONS:
5. ALL PLANTING AREAS SHOULD BE TESTED FOR PROPER DRAINAGE. DRAINAGE SHOULD BE CORRECTED AS NECESSARY TO INSURE PROPER TREE GROWTH AND SURVIVAL. THE FOLLOWING LEVEL OF NUTRIENT ELEMENTS IS RECOMMENDED FOR PROPER GROWTH:

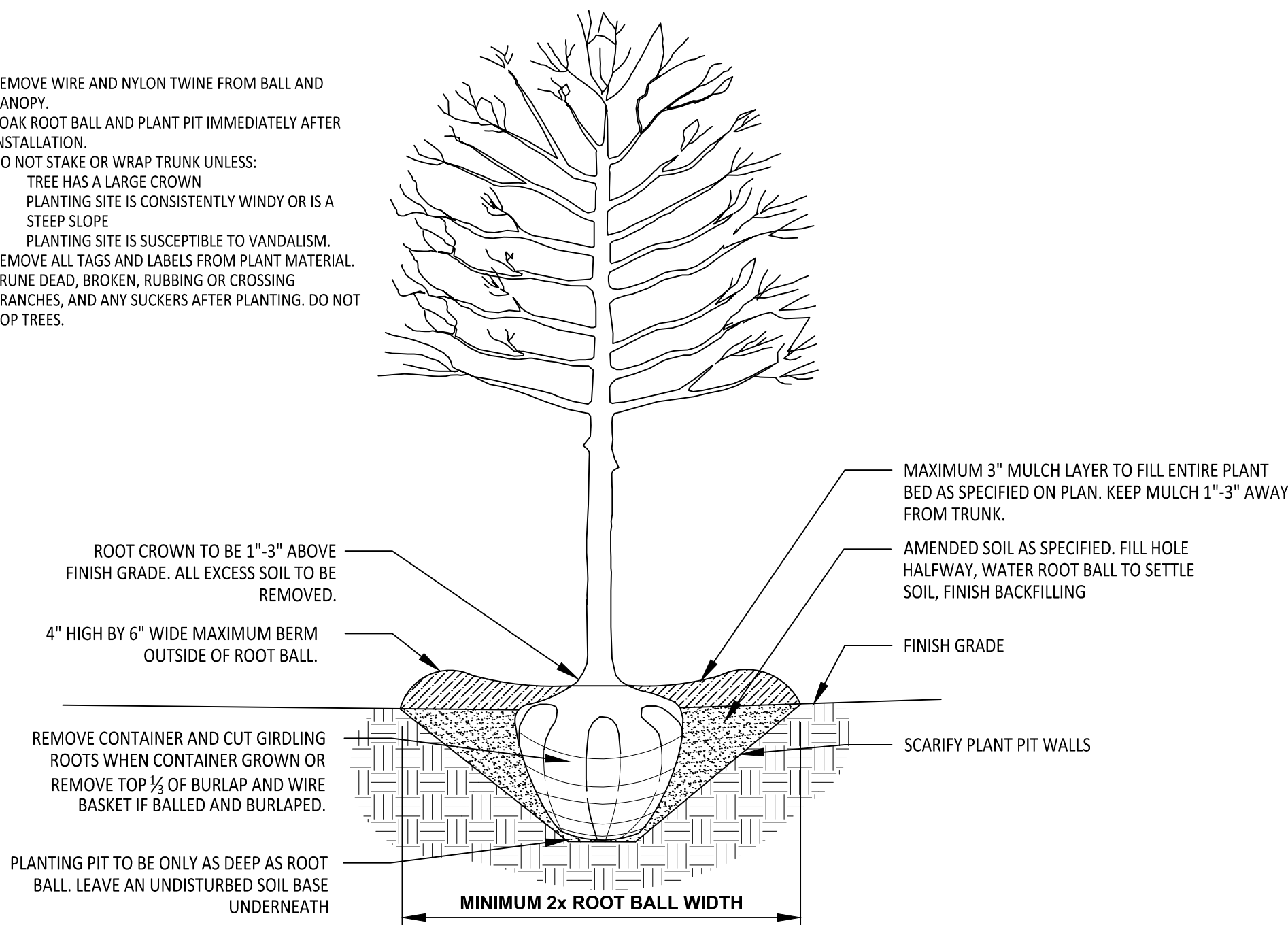
CALCIUM	55 - 80%
MAGNESIUM	10 - 30%
POTASSIUM	5 - 8%

SEEDING SCHEDULE FOR LAWNS & SLOPES (MAXIMUM 3:1):

DATE	TYPE	PLANTING RATE
AUG 15 - NOV 1	TALL FESCUE	300 LBS/ACRE
NOV 1 - MAR 1	TALL FESCUE AND ABRUZZI RYE	300 LBS/ACRE OR ANNUAL RYE
MAR 1 - APR 15	TALL FESCUE OR HARD FESCUE	300 LBS/ACRE
MAR 1 - JUL 15	HULLED COMMON BERMUDA GRASS OR HYBRID BERMUDA GRASS OR CENTIPEDE GRASS OR ZOYSIA GRASS OR ST. AUGUSTINE GRASS	200 LBS/ACRE
APR 15 - JUN 30	WEEPING LOVE GRASS OR BAHIA GRASS	25 LBS/ACRE
JUL 1 - AUG 15	TALL FESCUE AND *** BROWNTOP MILLET *** OR SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE

NOTES

1. REMOVE WIRE AND NYLON TWINE FROM BALL AND CANOPY.
2. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
3. DO NOT STAKE OR WRAP TRUNK UNLESS:
 - 3.1. TREE HAS A LARGE CROWN
 - 3.2. PLANTING SITE IS CONSISTENTLY WINDY OR IS A STEEP SLOPE
 - 3.3. PLANTING SITE IS SUSCEPTIBLE TO VANDALISM.
4. REMOVE ALL TAGS AND LABELS FROM PLANT MATERIAL.
5. PRUNE DEAD, BROKEN, RUBBING OR CROSSING BRANCHES, AND ANY SUCKERS AFTER PLANTING. DO NOT TOP TREES.



ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004)					
FOR EXAMPLE:	CALIPER	HEIGHT (RANGE)	MAX. HEIGHT	MIN. ROOT BALL DIA.	MIN. ROOT BALL DEPTH
	2"	12'-14'	16'	24"	16"
	3"	14'-16'	18'	32"	21"

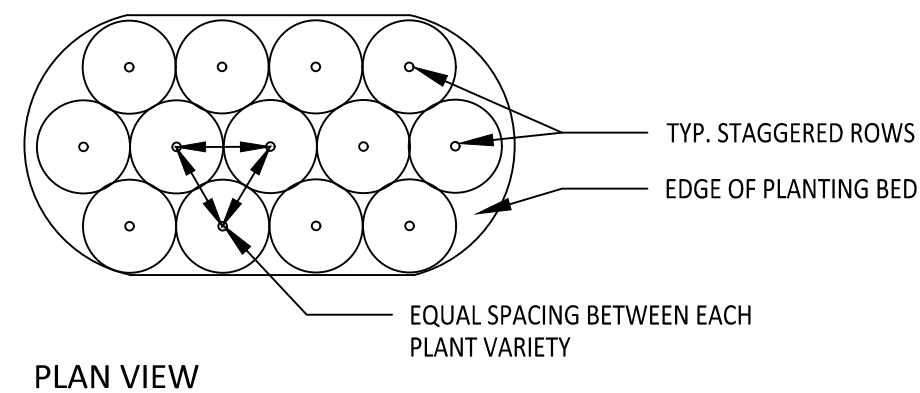
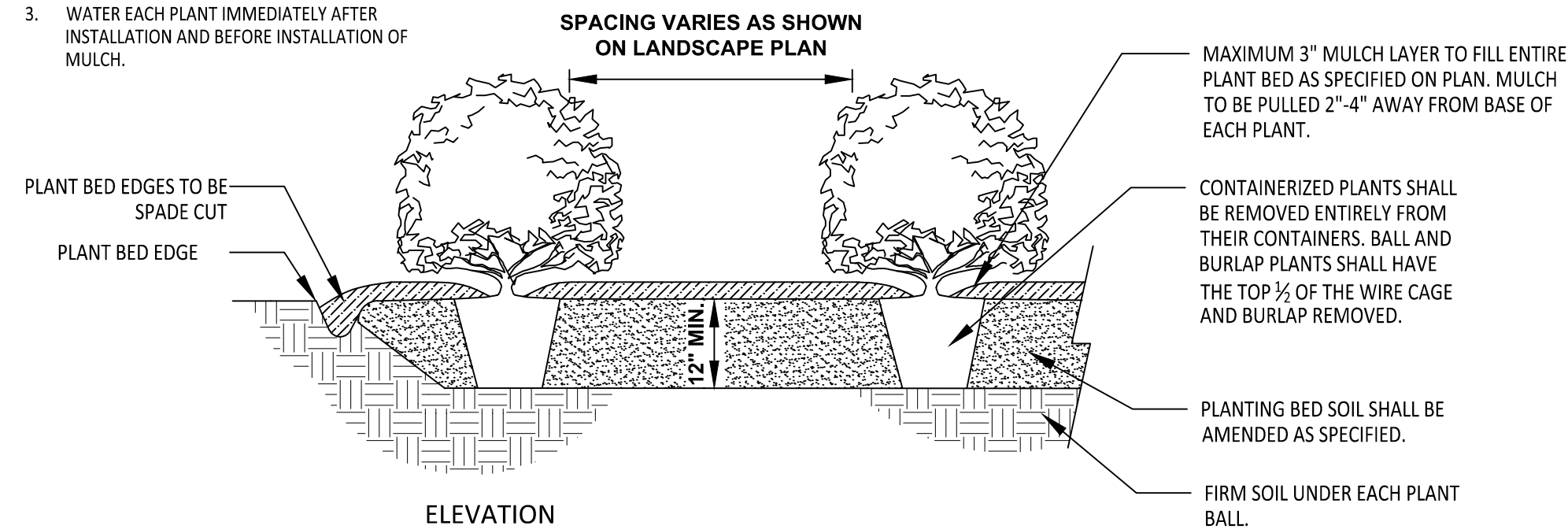
TYPICAL TREE PLANTING

(FOR SINGLE AND MULTI-STEM TREES)

NOT TO SCALE

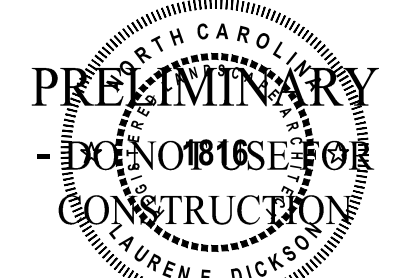
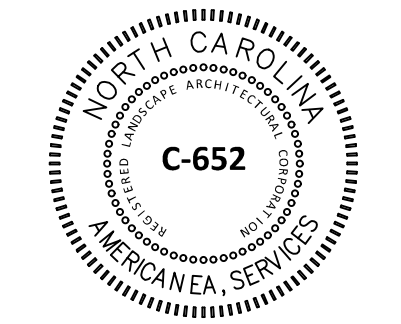
NOTES:

1. SCARIFY ROOT MASS OF CONTAINERIZED PLANTS.
2. PLANT ROOT BALL SHOULD BE INSTALLED 1"-3" MAXIMUM ABOVE FINISHED GRADE.
3. WATER EACH PLANT IMMEDIATELY AFTER INSTALLATION AND BEFORE INSTALLATION OF MULCH.



TYPICAL SHRUB PLANTING

NOT TO SCALE

[illegible]

STIPULATION FOR REUSE

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THE PRESERVE
AT
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ROLESVILLE ROAD
WAKE COUNTY, NC

JOB NUMBER: 21-002

CHECKED BY: JK

DRAWN BY: RC & SM

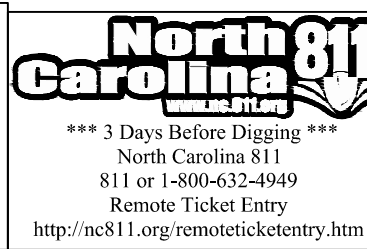
DATE: 02/03/2025

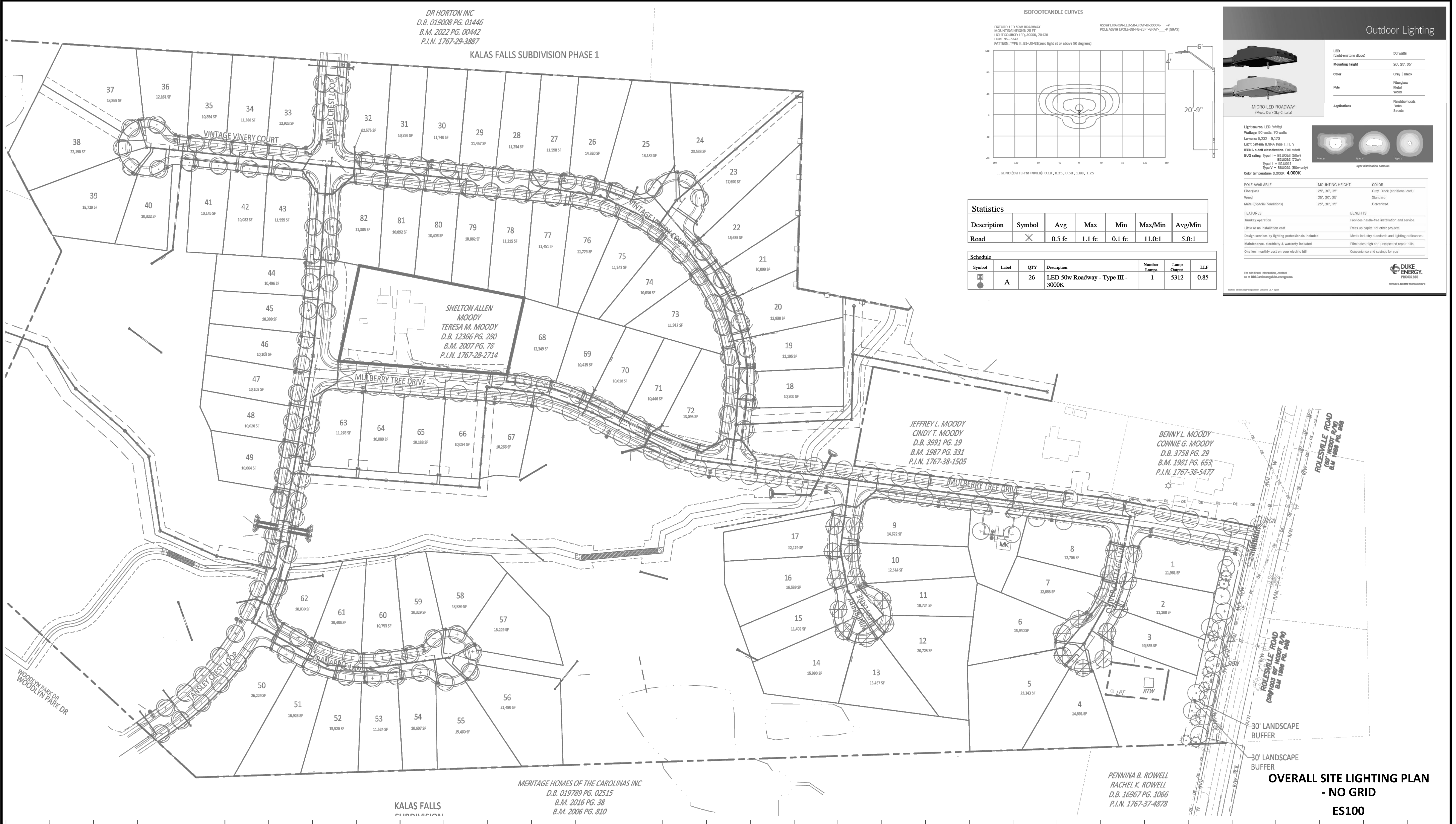
SHEET TITLE:
**PLANTING
NOTES AND
DETAILS**

SHEET NO.

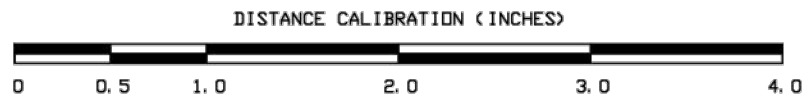
L3

<p align="center">Public</p> <p align="center"><u>Sewer Collection / Extension System</u></p> <p>The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department/Permit # _____</p>	<p align="center">Public</p> <p align="center"><u>Water Distribution / Extension System</u></p> <p>The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department/Permit # _____</p>
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NO.	DATE	REVISION	BY



LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.



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MOODY FARMS WAKE FOREST, NC		
STREET LIGHTING ARRANGEMENT		
Designed by	DUKE ENERGY PROGRESS LIGHTING SOLUTIONS	
Reviewed by	N. Johnson	Scale 1" = 60'
Date	03/28/2025	Size Drawing size "D"
Description	LED ROADWAY	
Drawing No.	25-0124A	Sht. 1 OF 1

