

FRAZIER FARM PARK

11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA, 27282

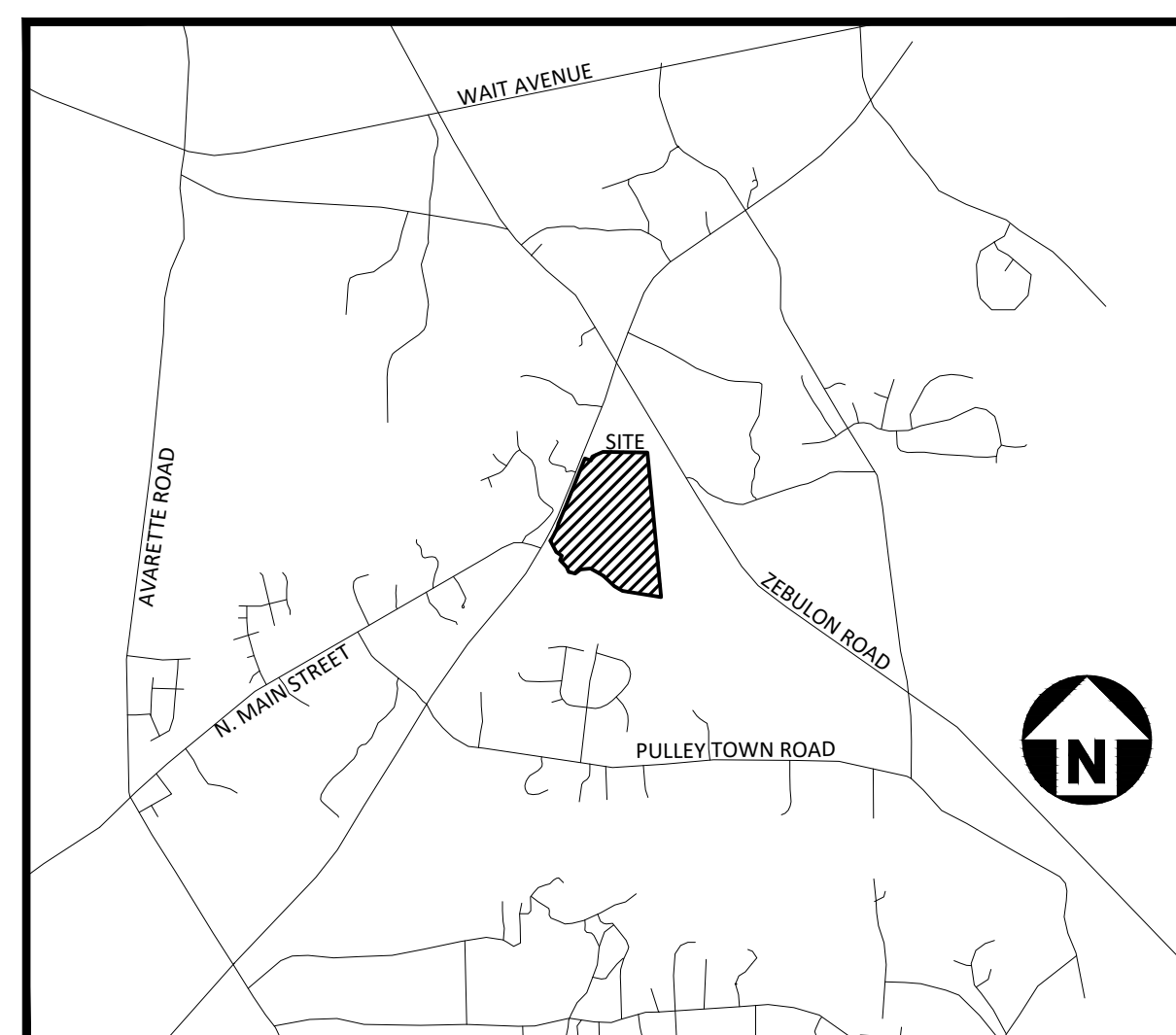
CONSTRUCTION DRAWINGS PHASE 1A

PROJECT NUMBER: 2020110039

DATE: **DECEMBER 1, 2023**

SITE DATA

OWNER:	TOWN OF ROLESVILLE 502 SOUTHTOWN CIRCLE ROLESVILLE, NORTH CAROLINA 27571
PREPARED BY:	MCADAMS COMPANY 2905 MERIDIAN PARKWAY DURHAM, NORTH CAROLINA 27713 919.361.5000 NANEKAR@MCADAMSCO.COM
PARCEL ID NUMBER:	1779076610
TOTAL SITE ACREAGE:	±116.56 AC
LAND AREA OF PARCEL:	±105.00 AC
SITE ACREAGE AS PART OF THIS DEVELOPMENT:	±8.00 AC
CURRENT ZONING:	RL
PROPOSED PARKING:	69 SPACES
CURRENT LAND USE:	VACANT
PROPOSED LAND USE:	PUBLIC RECREATION FACILITY
ADJOINING PROPERTY OWNERS:	PIN: 1779083669, 1779263965, 1779190357
DISTURBED AREA:	±8.50 AC
FEMA REGULATIONS:	
PRE-DEVELOPMENT IMPERVIOUS AREA:	0.14 AC
POST-DEVELOPMENT IMPERVIOUS AREA:	1.92 AC
WATERSHED(S):	NEUSE



VICINITY MAP
N.T.S.



Know what's below.
Call before you dig.

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

SHEET INDEX

C1.00	EXISTING CONDITIONS
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C2.00	OVERALL SITE PLAN
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C2.02	SITE PLAN 'AREA B'
C2.03	SITE PLAN 'AREA C'
C3.00	OVERALL GRADING & DRAINAGE PLAN
C3.01	GRADING & DRAINAGE PLAN: 'AREA A'
C3.02	GRADING & DRAINAGE PLAN: 'AREA B'
C3.03	GRADING & DRAINAGE PLAN: 'AREA C'
C5.00	PLAN AND PROFILE STREET "A", STA. 10+00 THRU STA. 22+95.10
C5.01	PLAN AND PROFILE STREET "B", STA. 10+00 THRU STA. 16+35
C6.00	EROSION CONTROL NOTES
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C6.02	OVERALL EROSION CONTROL PLAN - STAGE 2
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C6.11	EROSION CONTROL DETAILS
C6.12	EROSION CONTROL DETAILS
C6.13	EROSION CONTROL DETAILS
C7.00	LOUISBURG RD WIDENING PLAN
C7.01	LOUISBURG RD WIDENING CROSS SECTIONS
C7.02	LOUISBURG RD WIDENING CROSS SECTIONS
C7.03	LOUISBURG RD WIDENING CROSS SECTIONS
C8.00	SITE DETAILS
C8.01	SITE DETAILS
C8.02	STORM DRAINAGE & UTILITY DETAILS
C8.03	STORM DRAINAGE & UTILITY DETAILS

GENERAL NOTES:

- ANY STRUCTURE TO BE REMOVED SHALL REQUIRE A DEMOLITION PERMIT FROM BUILDING INSPECTIONS.

CID-23-05

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



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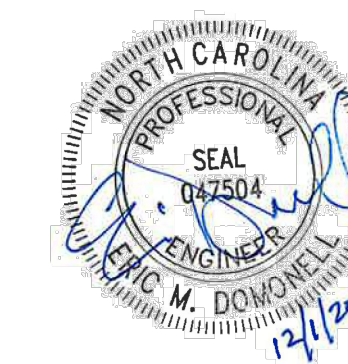
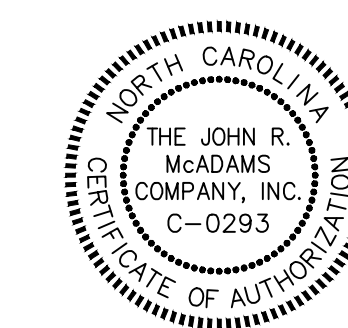
CONTACT

ERIC DOMONELL
domonell@mcadamsco.com
PHONE: 919.287.0765

CLIENT

TOWN OF ROLESVILLE
502 SOUTHTOWN CIRCLE
ROLESVILLE, NORTH CAROLINA 27571
PHONE: 919.554.6582

PROJECT DIRECTORY



REVISIONS

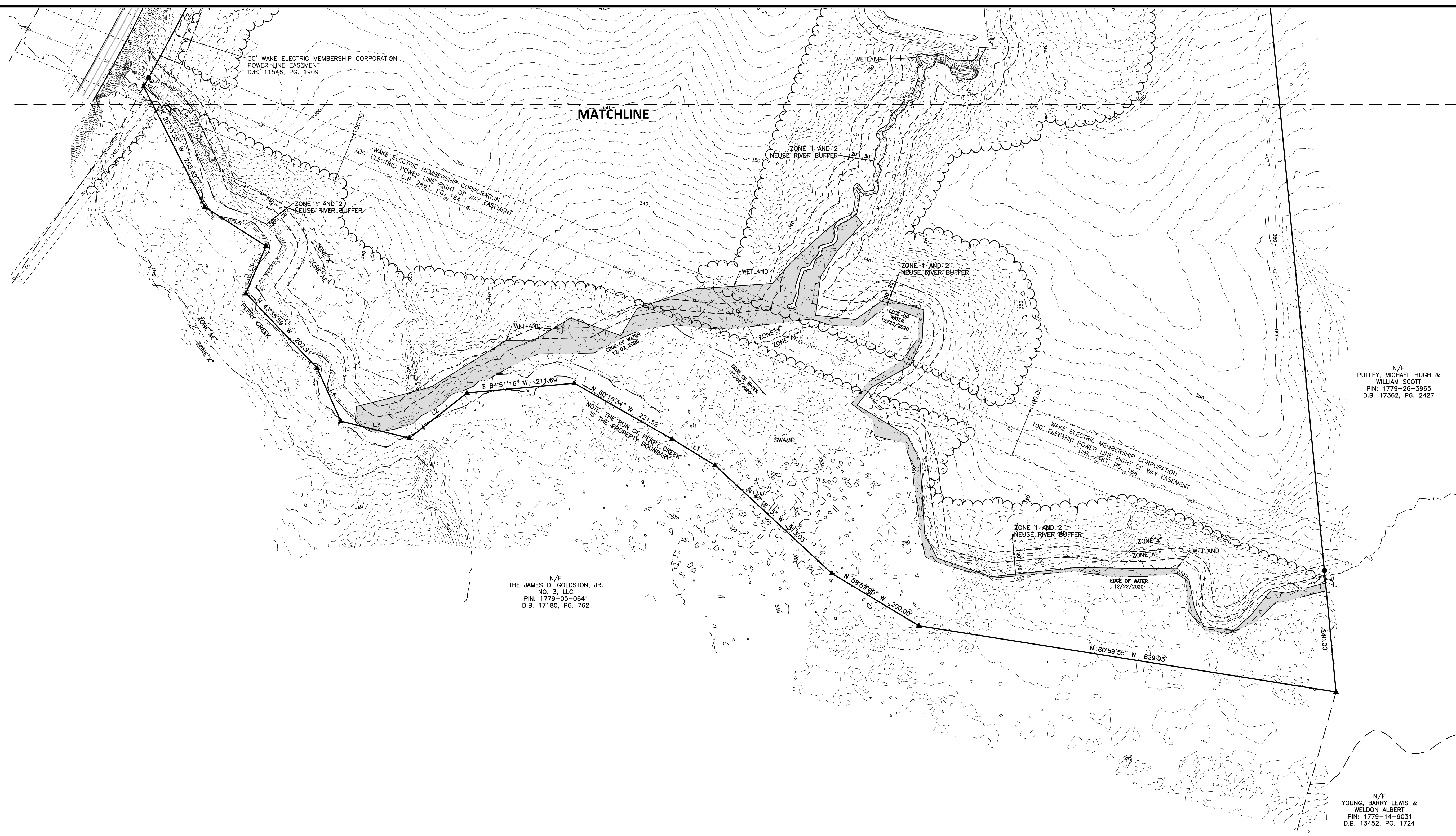
NO. DATE

CONSTRUCTION DRAWINGS FOR:

FRAZIER FARM PARK
PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NC 27282
PROJECT NUMBER: 2020110039



NC GRID NAD 83 (2011)



MATCHLINE

N/F
THE JAMES D. GOLDSTON, JR.
NO. 3, LLC
PIN: 1779-05-0641
D.B. 17180, PG. 762

N/F
PULLEY, MICHAEL HUGH &
WILLIAM SCOTT
PIN: 1779-26-3965
D.B. 17362, PG. 2427

N/F
YOUNG, BARRY LEWIS &
WELDON ALBERT
PIN: 1779-14-9031
D.B. 13452, PG. 1724

- LEGEND**
- PROPERTY BOUNDARY
 - ADJOINING PARCEL GIS SHAPEFILE
 - OVERHEAD UTILITY
 - UNDERGROUND TELEPHONE
 - STORM SEWER
 - WOODLINE
 - NEUSE RIVER BUFFER
 - FLOODPLAIN
 - CREEK BANK
 - TIE LINE
 - WETLAND
 - POWER EASEMENT
 - PERMANENT UTILITY EASEMENT
 - IRON PIPE/REBAR FOUND
 - IRON PIPE/REBAR SET
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 - ▲ CALCULATED POINT NOT FOUND OR SET
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 - ◆ TEMPORARY BENCHMARK
 - ⊙ LIGHT POLE
 - ⊙ UTILITY POLE
 - ⊙ TELEPHONE PEDESTAL
 - ⊙ OAK
 - ⊙ DOGWOOD
 - ⊙ PECAN

CURVE	RADIUS	CURVE TABLE		
		ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	405.81'	20.00'	N 29°03'28" E	20.00'
C2	5724.30'	282.14'	N 27°38'45" E	282.12'
C3	1907.59'	320.51'	N 45°25'21" E	320.13'
C4	5900.00'	175.71'	S 26°19'02" W	175.70'
C5	6306.80'	39.71'	S 28°12'58" W	39.71'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 58°32'29" W	98.85'
L2	S 51°53'26" W	144.12'
L3	N 73°07'14" W	138.75'
L4	N 24°04'09" W	114.42'
L5	N 22°55'41" E	101.10'
L6	N 57°26'24" W	142.63'
L7	N 15°00'06" E	104.53'
L8	S 67°19'35" E	132.44'
L9	N 19°08'18" E	95.82'
L10	S 25°00'42" W	18.54'
L11	S 45°13'02" W	82.40'
L12	N 50°24'20" W	34.98'
L13	N 66°46'16" W	23.34'
L14	N 56°12'03" W	20.02'

SURVEY NOTES

- THIS EXISTING CONDITIONS SURVEY WAS COMPLETED ON APRIL 22, 2021.
- BEARINGS FOR THIS SURVEY ARE BASED ON NC STATE PLANE GRID NAD 83 (2011).
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS NOTED OTHERWISE.
- AREA BY COORDINATE GEOMETRY.
- THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD HAZARD ZONE, PORTIONS OF THE SOUTHERN PROPERTY BOUNDARY ALONG PERRY CREEK ARE IN ZONE AE (1% ANNUAL CHANCE FLOOD) PER FEMA FIRM MAP 3720177900K, MAP DATE MAY 2, 2006.
- ELEVATIONS FOR THIS SURVEY ARE BASED ON NAVD 88 DERIVED FROM NGS "PERRY CREEK". THE CONTOUR INTERVAL IS 1-FOOT.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

GPS METADATA

- CLASS OF SURVEY: A
- POSITIONAL ACCURACY: 0.06'
- TYPE OF GPS FIELD PROCEDURE: VRS
- DATES OF SURVEY: DECEMBER 10, 2020
- DATUM/EPOCH: NAD 83 (2011)
- PUBLISHED/FIXED-CONTROL USE: NCGS "GARY"
- GEOD MODEL: 12B
- COMBINED GRID FACTOR(S): 0.99993507
- UNITS: U.S. SURVEY FEET

I, E. MATTHEW CASH, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY PERFORMED UNDER MY SUPERVISION; THAT THIS GROUND/AERIAL SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC/PLANIMETRIC SURVEY TO THE ACCURACY OF CLASS 3 AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS & STANDARD, AND THAT THE SURVEY WAS COMPLETED ON APRIL 22, 2021; AND ALL COORDINATES ARE BASED ON NAD 83 (2011) AND ALL ELEVATIONS ARE BASED ON NAVD 88.



E. MATTHEW CASH, PROFESSIONAL LAND SURVEYOR L-5045 APRIL 28, 2021

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ROLESVILLE, NC 27571

FRAZIER FARM PARK
EXISTING CONDITIONS SURVEY
11624 LOUISBURG ROAD
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA

REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	2020110039
FILENAME	2020110039-C1
CHECKED BY	EMC
DRAWN BY	EMC
SCALE	1"=100'
DATE	04.22.2021

SHEET

EXISTING CONDITIONS

C1.00

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NC GRID NAD 83 (2011)

SURVEY NOTES

1. SEE SHEET C1.00 FOR SURVEY NOTES, GPS METADATA, AND SURVEYORS CERTIFICATION.

LINE	BEARING	DISTANCE
L1	N 58°32'29" W	98.85'
L2	S 51°53'26" W	144.12'
L3	N 76°07'14" W	138.75'
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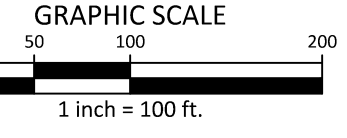
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LEGEND

- PROPERTY BOUNDARY
- - - ADJOINING PARCEL GIS SHAPEFILE
- OVERHEAD UTILITY
- UNDERGROUND TELEPHONE
- STORM SEWER
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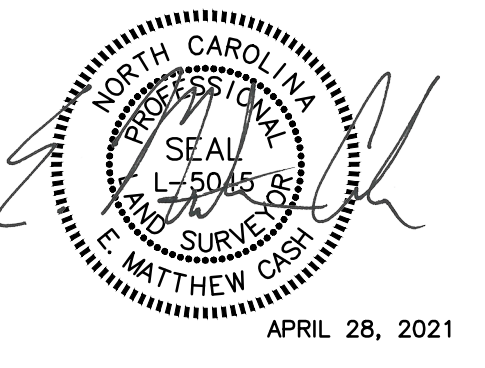
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FRAZIER FARM PARK
EXISTING CONDITIONS SURVEY
11624 LOUISBURG ROAD
TOWN OF ROLESVILLE, WAKE COUNTY, NORTH CAROLINA



REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	2020110039
FILENAME	2020110039-C1
CHECKED BY	EMC
DRAWN BY	EMC
SCALE	1"=100'
DATE	04.22.2021

EXISTING CONDITIONS
C1.01



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CLIENT

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ADDRESS: 502 SOUTHTOWN CIRCLE
ADDRESS: ROLESVILLE NC 27571
PHONE: 919.554.6582

FRAZIER FARM PARK
CONSTRUCTION DRAWINGS
PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-DM1
CHECKED BY EMD
DRAWN BY SME
SCALE 1"=100'
DATE 12.01.2023

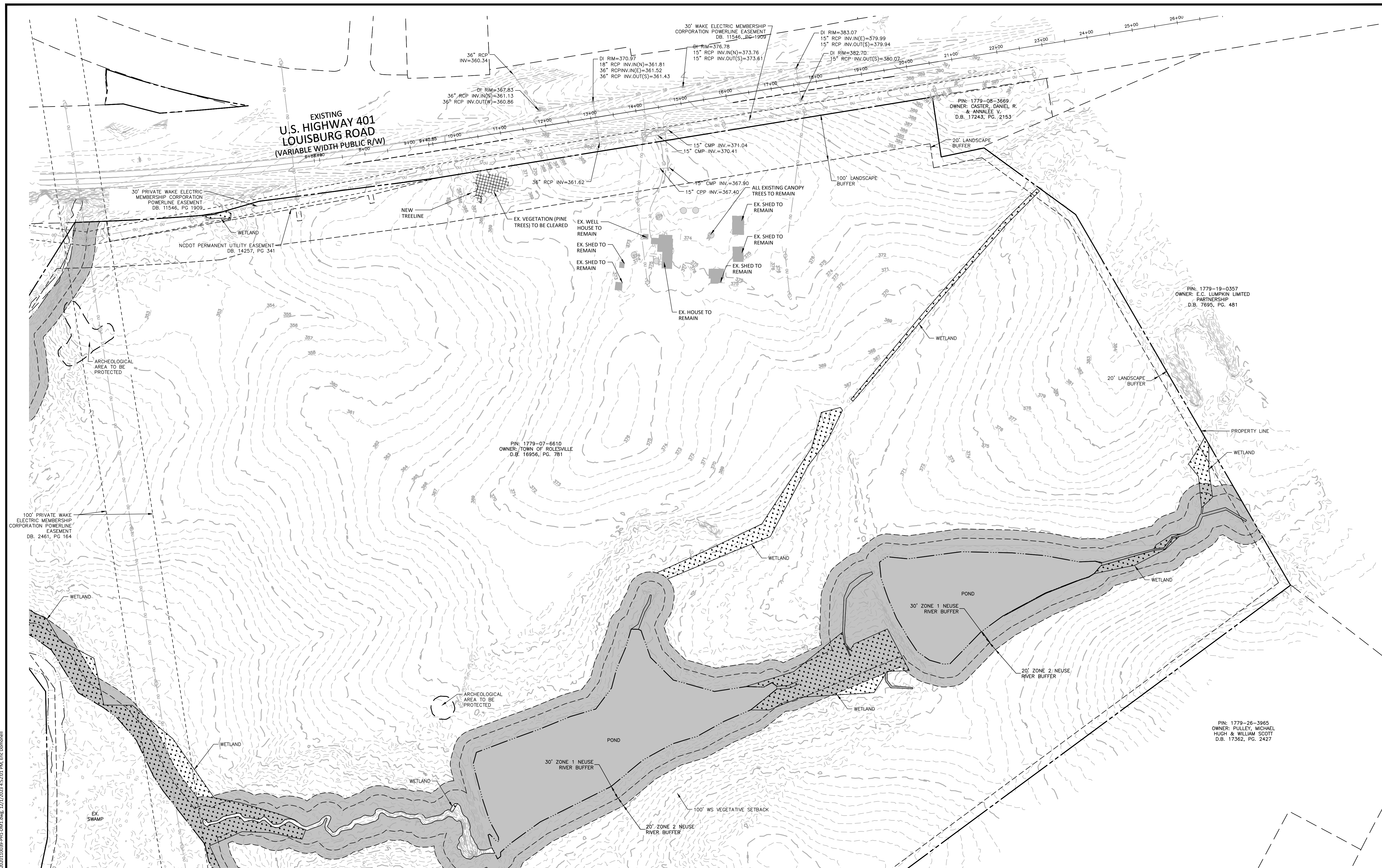
SHEET

OVERALL DEMOLITION
PLAN

C1.10

CID-23-5

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



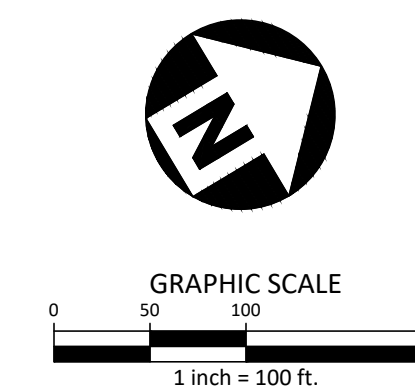
DEMOLITION NOTES

- UTILITY STATEMENT: THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO DEMOLITION.
- THE CONTRACTOR SHALL PERFORM DEMOLITION ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS AND SPECIFICATIONS AND AS DIRECTED BY THE OWNER.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS AND PAY FEES REQUIRED FOR DEMOLITION AND HAUL-OFF FROM THE APPROPRIATE AUTHORITIES. THESE FEES ARE TO BE INCLUDED WITH THE BID. THE CONTRACTOR SHALL PREPARE ALL DOCUMENTS AND ACQUIRE APPROPRIATE PERMITS AS REQUIRED PRIOR TO THE COMMENCEMENT OF DEMOLITION.
- THE DEMOLITION PLAN IS INTENDED TO DEPICT GENERAL DEMOLITION AND UTILITY WORK. IT IS NOT INTENDED TO IDENTIFY EACH ELEMENT OF DEMOLITION OR RELOCATION. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND APPROPRIATE UTILITY COMPANY PRIOR TO WORK.
- CONTRACTOR SHALL COMPLETELY DEMOLISH ALL EXISTING IMPROVEMENTS NOTED FOR REMOVAL ON THE APPROVED DEMOLITION PLAN. THIS INCLUDES, AS NECESSARY, FOUNDATIONS AND OTHER APPURTENANCES LOCATED ON AND AROUND THE IMPROVEMENTS SUCH AS SIGNS, CURBS, PAVEMENT, SIDEWALKS, LIGHT POLE BASES, HYDRANTS, BOLLARDS, ETC. ALL REMOVED MATERIAL SHALL BE DISPOSED OF OFFSITE IN A LAWFUL MANNER OR RECYCLED. IF POSSIBLE, CONTRACTOR SHALL MAKE EVERY ATTEMPT TO RECYCLE ANY DEBRIS AND RUBBISH THAT IS RECYCLABLE.
- CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING DEMOLITION WORK. CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS AND CARE TO PRESERVE TREES DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
- ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE SOLE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR TO FLAG ALL TREES SLATED FOR REMOVAL AND SEEK APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO DEMOLISHING.

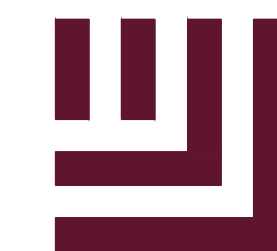
DEMOLITION LEGEND

AREA TO BE REMOVED (SIDEWALK, CURB AND GUTTER, STRUCTURES, ASPHALT, CONCRETE PAVING, ETC.)

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS



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FRAZIER FARM PARK
CONSTRUCTION DRAWINGS
PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-OAS1
CHECKED BY EMD
DRAWN BY SME
SCALE 1"=100'
DATE 12.01.2023

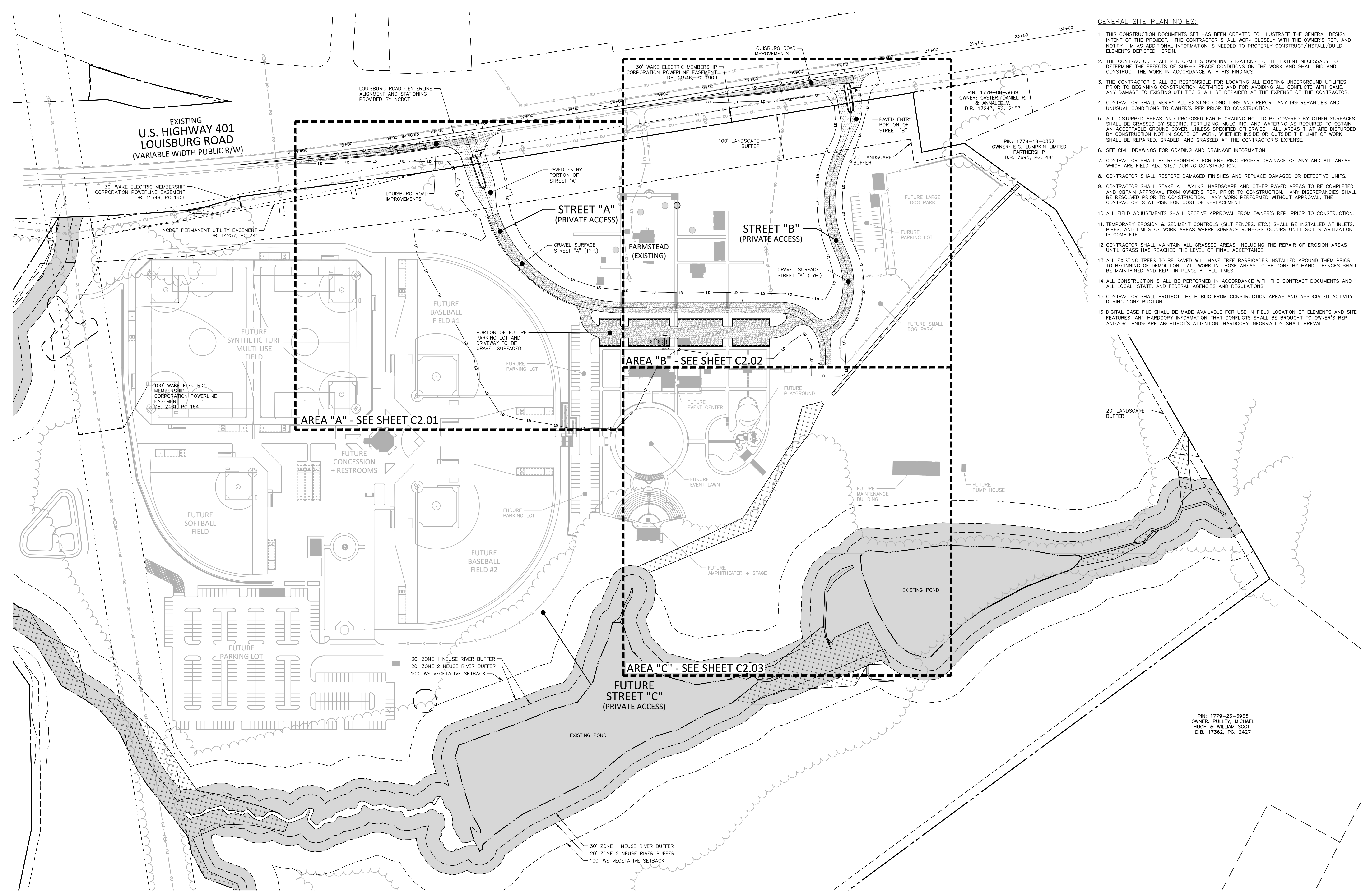
SHEET

OVERALL
SITE PLAN
C2.00

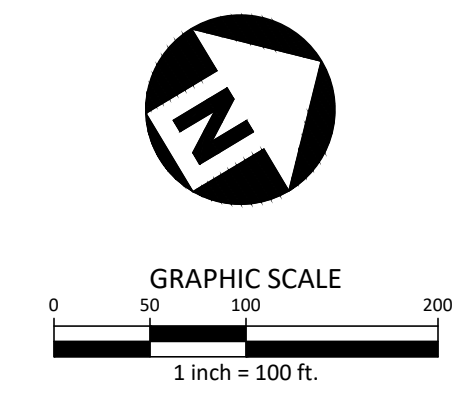
CID-23-5

GENERAL SITE PLAN NOTES:

1. THIS CONSTRUCTION DOCUMENTS SET HAS BEEN CREATED TO ILLUSTRATE THE GENERAL DESIGN INTENT OF THE PROJECT. THE CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER'S REP. AND NOTIFY HIM AS ADDITIONAL INFORMATION IS NEEDED TO PROPERLY CONSTRUCT/INSTALL/BUILD ELEMENTS DEPICTED HEREIN.
2. THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS TO THE EXTENT NECESSARY TO DETERMINE THE EFFECTS OF SUB-SURFACE CONDITIONS ON THE WORK AND SHALL BID AND CONSTRUCT THE WORK IN ACCORDANCE WITH HIS FINDINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES AND UNUSUAL CONDITIONS TO OWNER'S REP PRIOR TO CONSTRUCTION.
5. ALL DISTURBED AREAS AND PROPOSED EARTH GRADING NOT TO BE COVERED BY OTHER SURFACES SHALL BE GRASSED BY SEEDING, FERTILIZING, MULCHING, AND WATERING AS REQUIRED TO OBTAIN AN ACCEPTABLE GROUND COVER, UNLESS SPECIFIED OTHERWISE. ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION NOT IN SCOPE OF WORK, WHETHER INSIDE OR OUTSIDE THE LIMIT OF WORK SHALL BE REPAIRED, GRADED, AND GRASSED AT THE CONTRACTOR'S EXPENSE.
6. SEE CIVIL DRAWINGS FOR GRADING AND DRAINAGE INFORMATION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PROPER DRAINAGE OF ANY AND ALL AREAS WHICH ARE FIELD ADJUSTED DURING CONSTRUCTION.
8. CONTRACTOR SHALL RESTORE DAMAGED FINISHES AND REPLACE DAMAGED OR DEFECTIVE UNITS.
9. CONTRACTOR SHALL STAKE ALL WALKS, HARDSCAPE AND OTHER PAVED AREAS TO BE COMPLETED AND OBTAIN APPROVAL FROM OWNER'S REP. PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION. ANY WORK PERFORMED WITHOUT APPROVAL, THE CONTRACTOR IS AT RISK FOR COST OF REPLACEMENT.
10. ALL FIELD ADJUSTMENTS SHALL RECEIVE APPROVAL FROM OWNER'S REP. PRIOR TO CONSTRUCTION.
11. TEMPORARY EROSION & SEDIMENT CONTROLS (SILT FENCES, ETC.) SHALL BE INSTALLED AT INLETS, PIPES, AND LIMITS OF WORK AREAS WHERE SURFACE RUN-OFF OCCURS UNTIL SOIL STABILIZATION IS COMPLETE.
12. CONTRACTOR SHALL MAINTAIN ALL GRASSED AREAS, INCLUDING THE REPAIR OF EROSION AREAS UNTIL GRASS HAS REACHED THE LEVEL OF FINAL ACCEPTANCE.
13. ALL EXISTING TREES TO BE SAVED WILL HAVE TREE BARRICADES INSTALLED AROUND THEM PRIOR TO BEGINNING OF DEMOLITION. ALL WORK IN THOSE AREAS TO BE DONE BY HAND. FENCES SHALL BE MAINTAINED AND KEPT IN PLACE AT ALL TIMES.
14. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL LOCAL, STATE, AND FEDERAL AGENCIES AND REGULATIONS.
15. CONTRACTOR SHALL PROTECT THE PUBLIC FROM CONSTRUCTION AREAS AND ASSOCIATED ACTIVITY DURING CONSTRUCTION.
16. DIGITAL BASE FILE SHALL BE MADE AVAILABLE FOR USE IN FIELD LOCATION OF ELEMENTS AND SITE FEATURES. ANY HANDCOPED INFORMATION THAT CONFLICTS SHALL BE BROUGHT TO OWNER'S REP. AND/OR LANDSCAPE ARCHITECT'S ATTENTION. HANDCOPED INFORMATION SHALL PREVAIL.

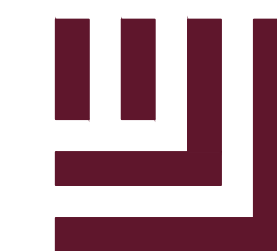


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PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\WOL\2020110039\Frazier Farm Park\04-Production\Engineering\Phase1A\CID\2020110039-PH1-OAS1.dwg, 12/1/2023, 4:52:09 PM, Eric Donnell



McADAMS

The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919.361.5000
fax 919.361.2269
license number: C-0293

www.mcadamsco.com

CLIENT

NAME: TOWN OF ROLESVILLE
ADDRESS: 502 SOUTHTOWN CIRCLE
ADDRESS: ROLESVILLE NC 27571
PHONE: 919.554.6582

**FRAZIER FARM PARK
CONSTRUCTION DRAWINGS
PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA**



REVISIONS

NO.	DATE

PLAN INFORMATION

PROJECT NO.	202011039
FILENAME	2020110039-PH1-S1
CHECKED BY	EMD
DRAWN BY	SME
SCALE	1"=30'
DATE	12.01.2023

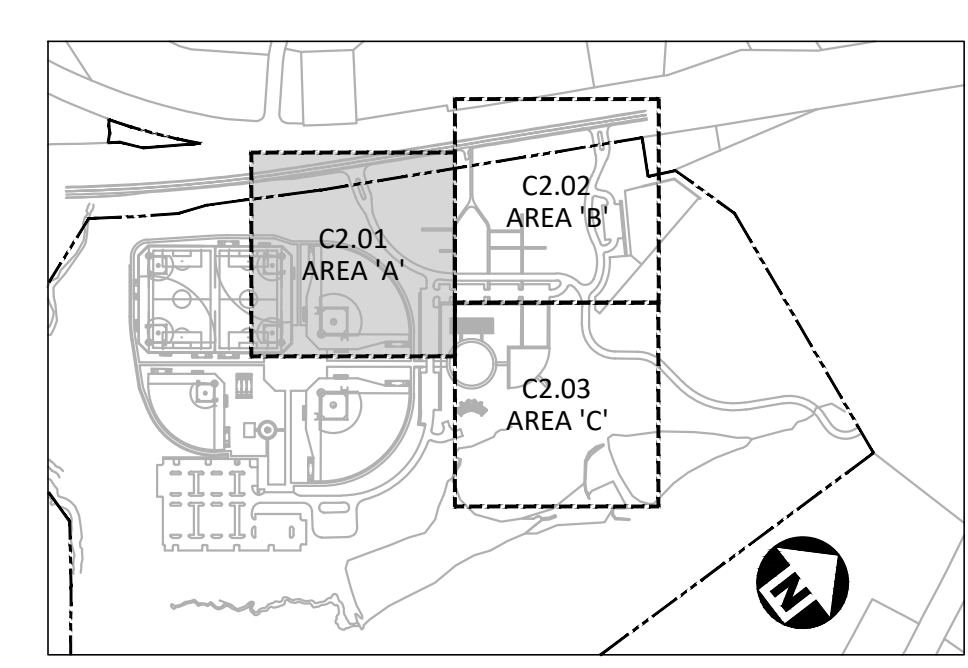
SITE PLAN: AREA 'A'

C2.01

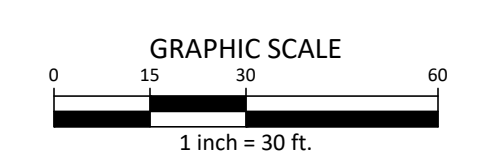
SITE LEGEND

	SIGNAGE
	YARD LIGHTS
	LIGHT POLE
	POWER POLE
	TRAFFIC DIRECTIONAL ARROW
	ACCESSIBLE PARKING STALL
	VAN ACCESSIBLE PARKING STALL
	PARKING SPACE COUNT
	ACCESSIBLE RAMPS
	ACCESSIBLE ROUTE
	PHASE LINE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	LOT LINE
	EASEMENT LINE
	CENTERLINE
	HEAVY DUTY ASPHALT PAVEMENT
	ABC TRAVEL SURFACE TO BE ASPHALT PAVED IN FUTURE PHASE
	US-401 PAVEMENT

- GENERAL SITE PLAN NOTES:**
- THIS CONSTRUCTION DOCUMENTS SET HAS BEEN CREATED TO ILLUSTRATE THE GENERAL DESIGN INTENT OF THE PROJECT. THE CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER'S REP. AND NOTIFY HIM AS ADDITIONAL INFORMATION IS NEEDED TO PROPERLY CONSTRUCT/INSTALL/BUILD ELEMENTS DEPICTED HEREIN.
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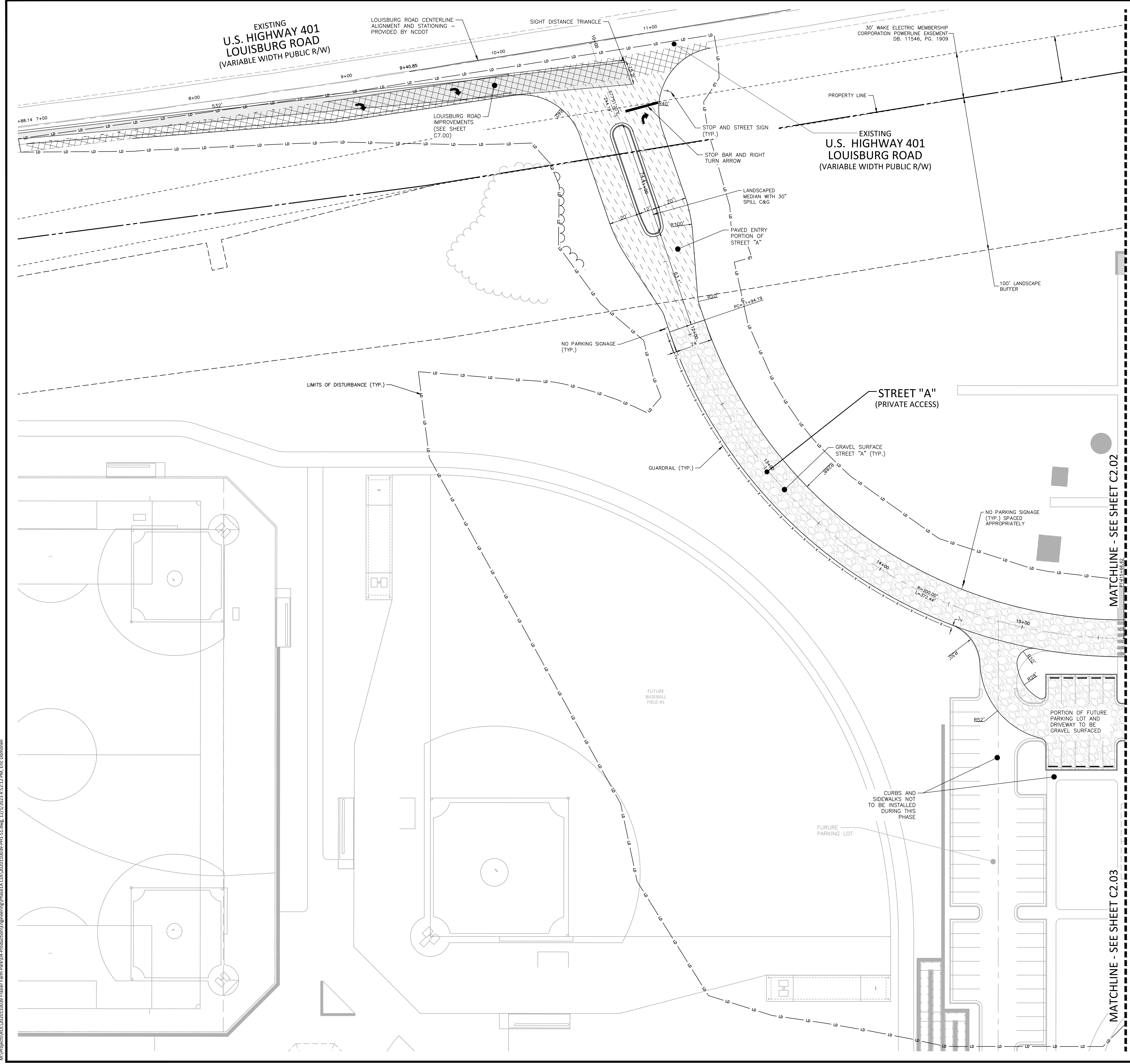
INDEX MAP
N.T.S.



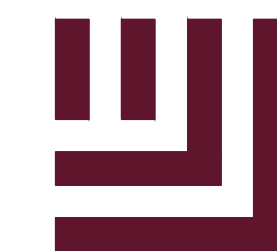
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

CID-23-5

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



M:\Projects\WOL\2020110039 Frazier Farm PH1A\04-Production\Engineering\Phase1A\CD\2020110039-PH1-S1.dwg, 12/7/2023 4:52:12 PM, Eric Domonell



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REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-S1
CHECKED BY EMD
DRAWN BY SME
SCALE 1"=30'
DATE 12.01.2023

SITE PLAN: AREA 'B'

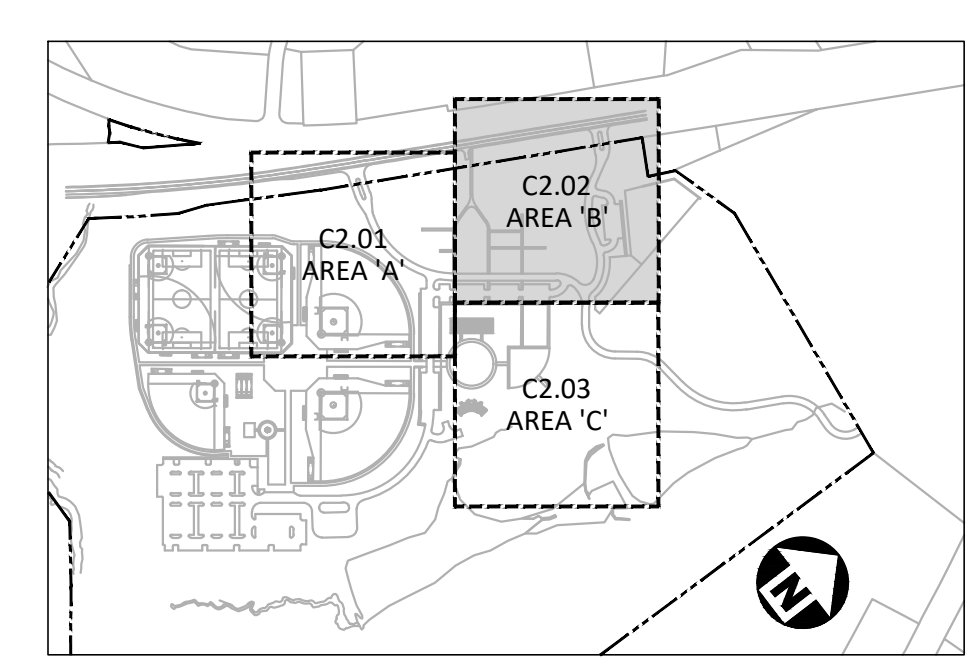
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SITE LEGEND

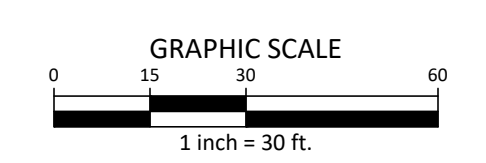
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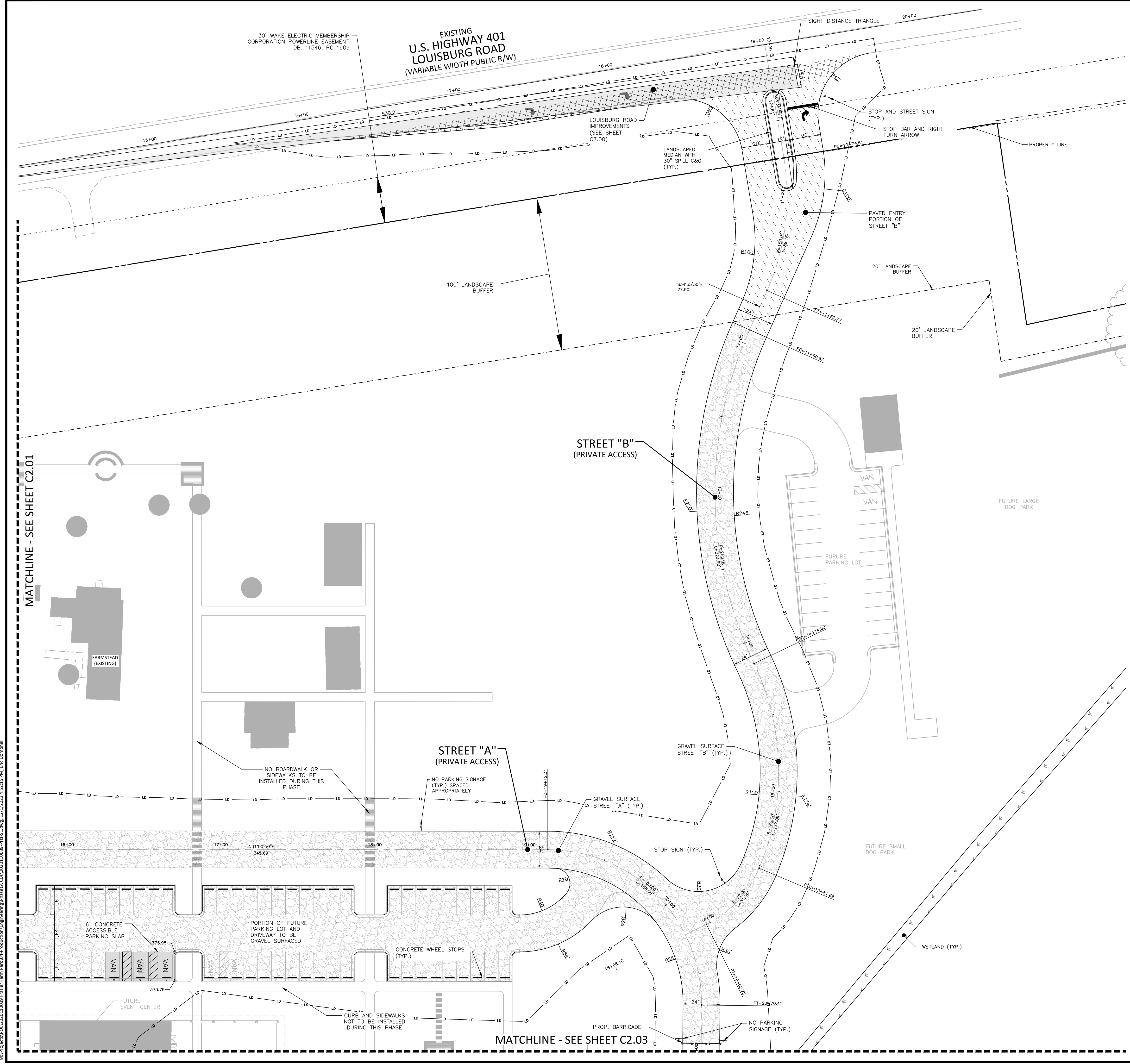
INDEX MAP
N.T.S.



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CID-23-5

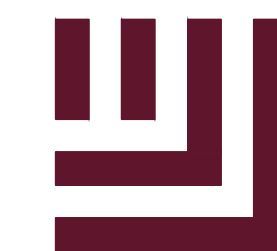
PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



MATCHLINE - SEE SHEET C2.01

MATCHLINE - SEE SHEET C2.03

M:\Projects\WOL\2020110039 Frazier Farm Park\04-Production\Engineering\Phase1A\CID\2020110039-PH1-S1.dwg, 12/7/2023 4:52:15 PM, Eric Dombrell



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Durham, NC 27713

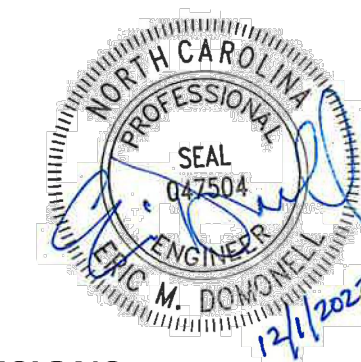
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ROLESVILLE, NORTH CAROLINA**



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-S1
CHECKED BY EMD
DRAWN BY SME
SCALE 1"=30'
DATE 12.01.2023

SHEET

SITE PLAN: AREA 'C'

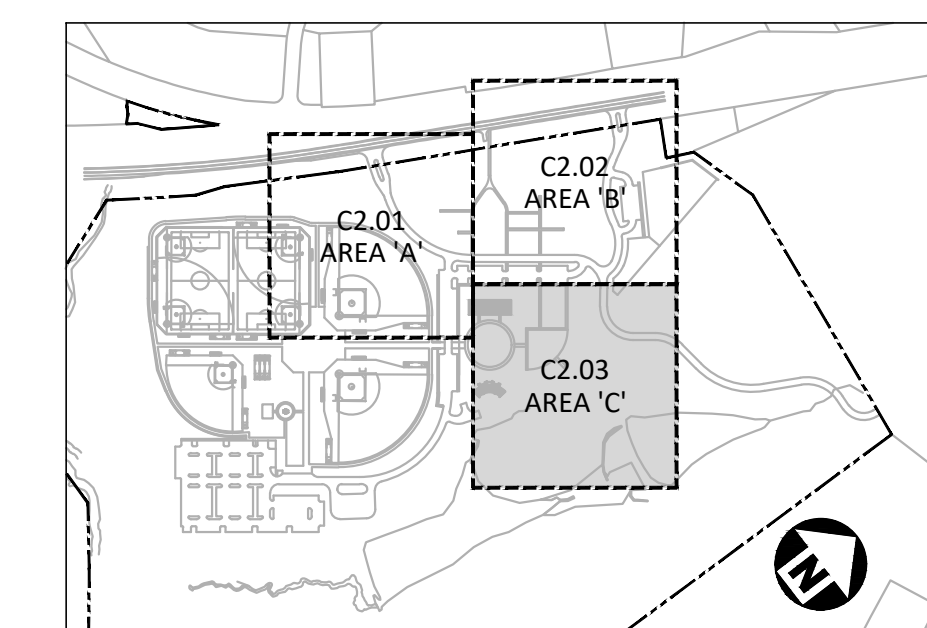
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SITE LEGEND

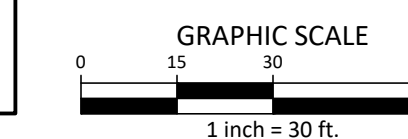
	SIGNAGE
	YARD LIGHTS
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INDEX MAP
N.T.S.



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CID-23-5

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

MATCHLINE - SEE SHEET C2.02

LIMITS OF DISTURBANCE

FUTURE CONDITION - NOT TO BE BUILT PER THIS PHASE

FUTURE PLAYGROUND

FUTURE MAINTENANCE BUILDING

100' WS VEGETATIVE SETBACK

30' ZONE 1 NEUSE RIVER BUFFER

20' ZONE 2 NEUSE RIVER BUFFER

EXISTING POND

FUTURE EVENT CENTER

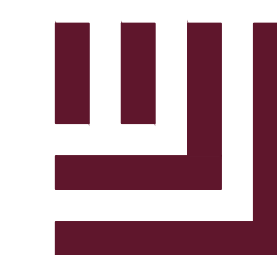
FUTURE EVENT LAWN

FUTURE AMPHITHEATER + STAGE

WETLAND

MATCHLINE - SEE SHEET C2.01

M:\Projects\WOL\2020110039 Frazier Farm PHA1\04-Production\Engineering\Phase1A\CD\2020110039-PH1-S1.dwg, 12/7/2023 4:52:20 PM, Eric Bonaparte



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FRAZIER FARM PARK
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PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 2020110039
FILENAME 2020110039-PH1-OAG61
CHECKED BY EMD
DRAWN BY SME
SCALE 1"=100'
DATE 12.01.2023

SHEET

OVERALL GRADING & DRAINAGE PLAN

C3.00

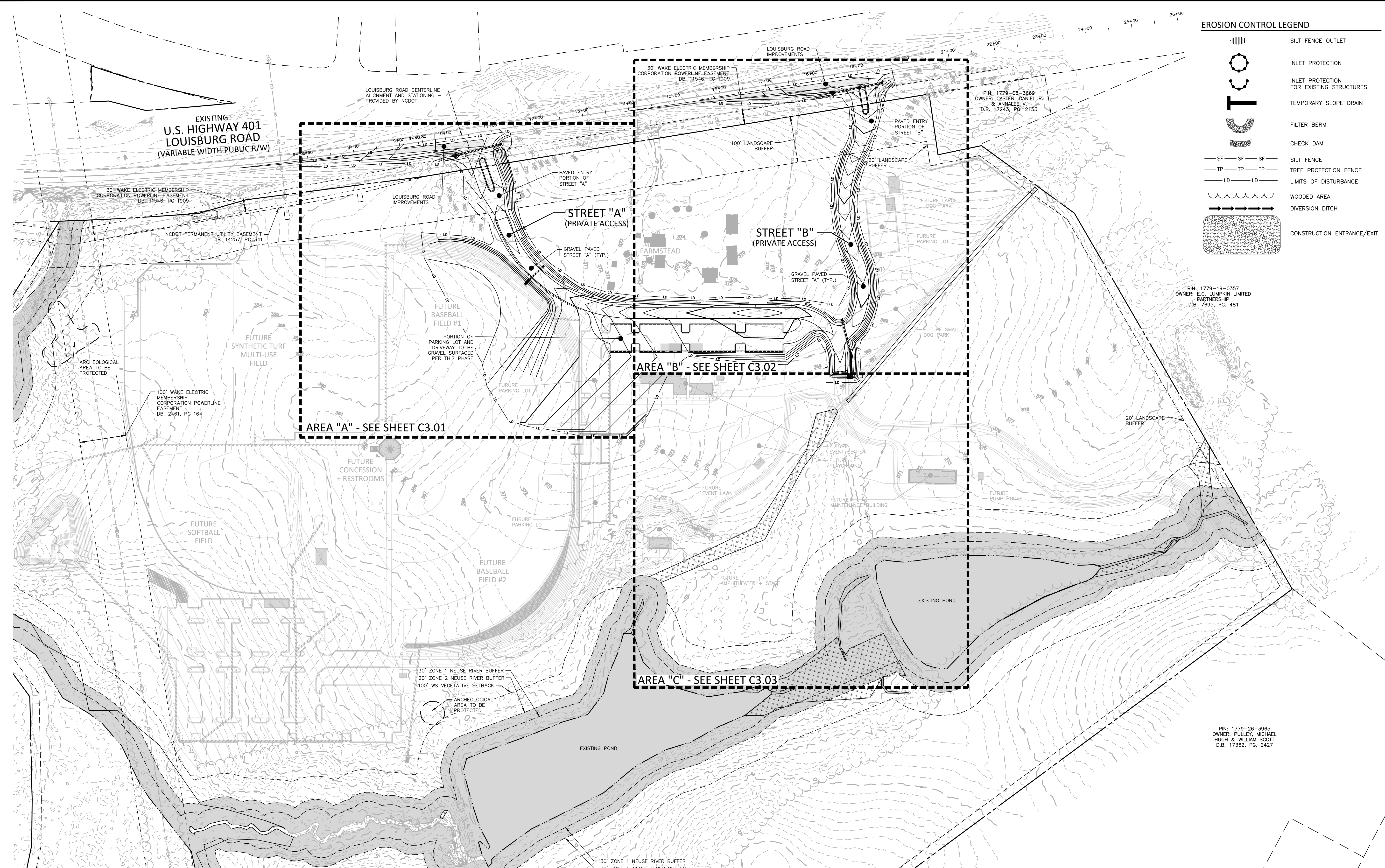
CID-23-5

EROSION CONTROL LEGEND

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

PIN: 1779-19-0357
OWNER: E.C. LUMPKIN LIMITED PARTNERSHIP
D.B. 7695, PG. 481

PIN: 1779-26-3665
OWNER: PULLEY, MICHAEL HUGH & WILLIAM SCOTT
D.B. 17362, PG. 2427



GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM SERVICE INLET
- STORM SERVICE ROOF-DRAIN
- JUNCTION BOX
- DRAINAGE FLOW ARROW
- LINE BREAK SYMBOL
- TOP & BOTTOM CURB ELEVATIONS
- TOP OF WALL ELEVATION
- BOTTOM OF WALL ELEVATION
- SPOT ELEVATION
- STORM DRAINAGE
- STORM SERVICE LINE
- ROOF DRAIN, 8" ADS NON-PERFORATED TUBING OR EQUAL 1.0% MIN. SLOPE 3" MIN. COVER PVC SCHEDULE 40 IN TRAFFIC AREAS
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- WOODED AREA
- MAJOR CONTOUR
- MINOR CONTOUR
- EXISTING MINOR CONTOUR
- EASEMENT LINE

GRADING NOTES

ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)

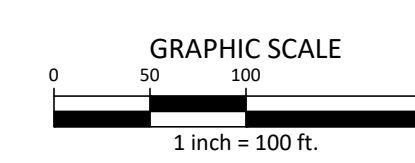
GRADING NOTES

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- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
- CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4849) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

STORM DRAINAGE NOTES:

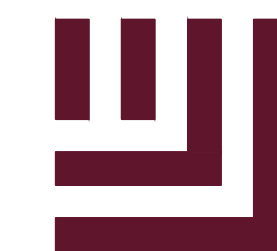
- ALL STORM DRAINAGE PIPES SHOWN SHALL BE CORRUGATED HDPE UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE WITH THE GEOTECH TO VERIFY TYPE OF BEDDING REQUIRED BASED ON SOIL CONDITIONS.
- ALL STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ROLESVILLE STANDARDS.
- ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH.
- ALL PIPE JOINTS SHALL BE MADE WITH PREFORMED JOINT SEALER, WHICH CONFORMS TO AASHTO SPECIFICATION M-198 FOR TYPE B FLEXIBLE PLASTIC GASKETS UNLESS OTHERWISE NOTED.
- ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAID MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.
- MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE AS UNSUITABLE FOR BACKFILL PURPOSES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.

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CHECKED BY EMD
DRAWN BY SME
SCALE 1"=30'
DATE 12.01.2023

SHEET

**GRADING & DRAINAGE
PLAN: AREA 'A'**

C3.01

CID-23-5

GRADING LEGEND

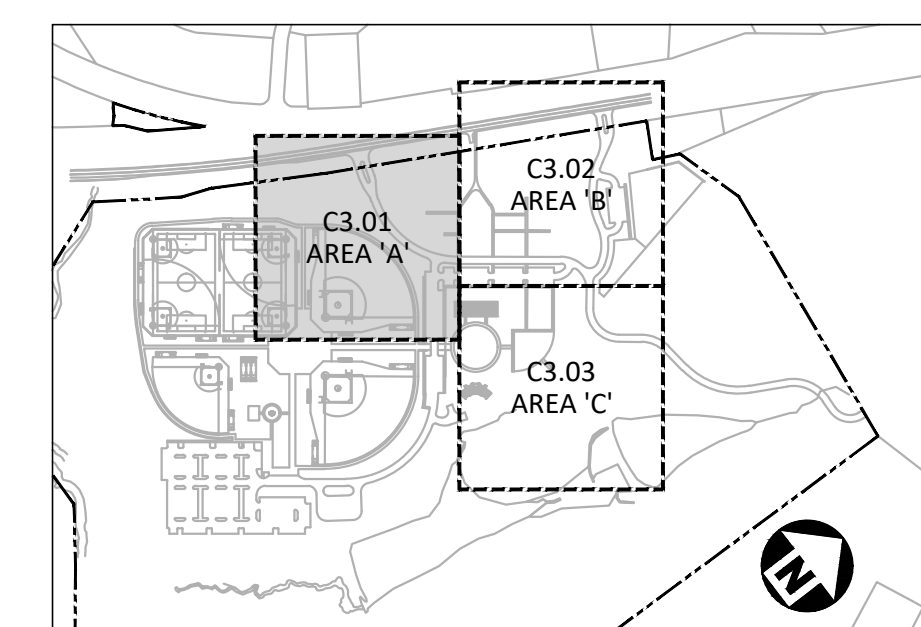
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	ENDWALL SECTION
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	DROP INLET
	JUNCTION BOX
	DRAINAGE FLOW ARROW
	TOP & BOTTOM CURB ELEVATIONS
	SPOT ELEVATION
	STORM DRAINAGE
	TREE PROTECTION FENCE
	LIMITS OF DISTURBANCE
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	MAJOR CONTOUR
	MINOR CONTOUR
	EXISTING MAJOR CONTOUR
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	ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)

GRADING NOTES

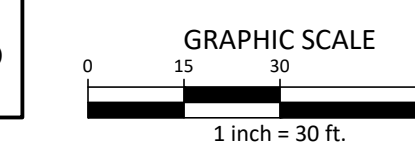
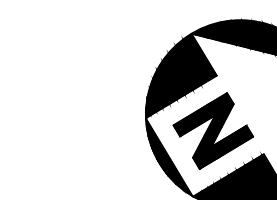
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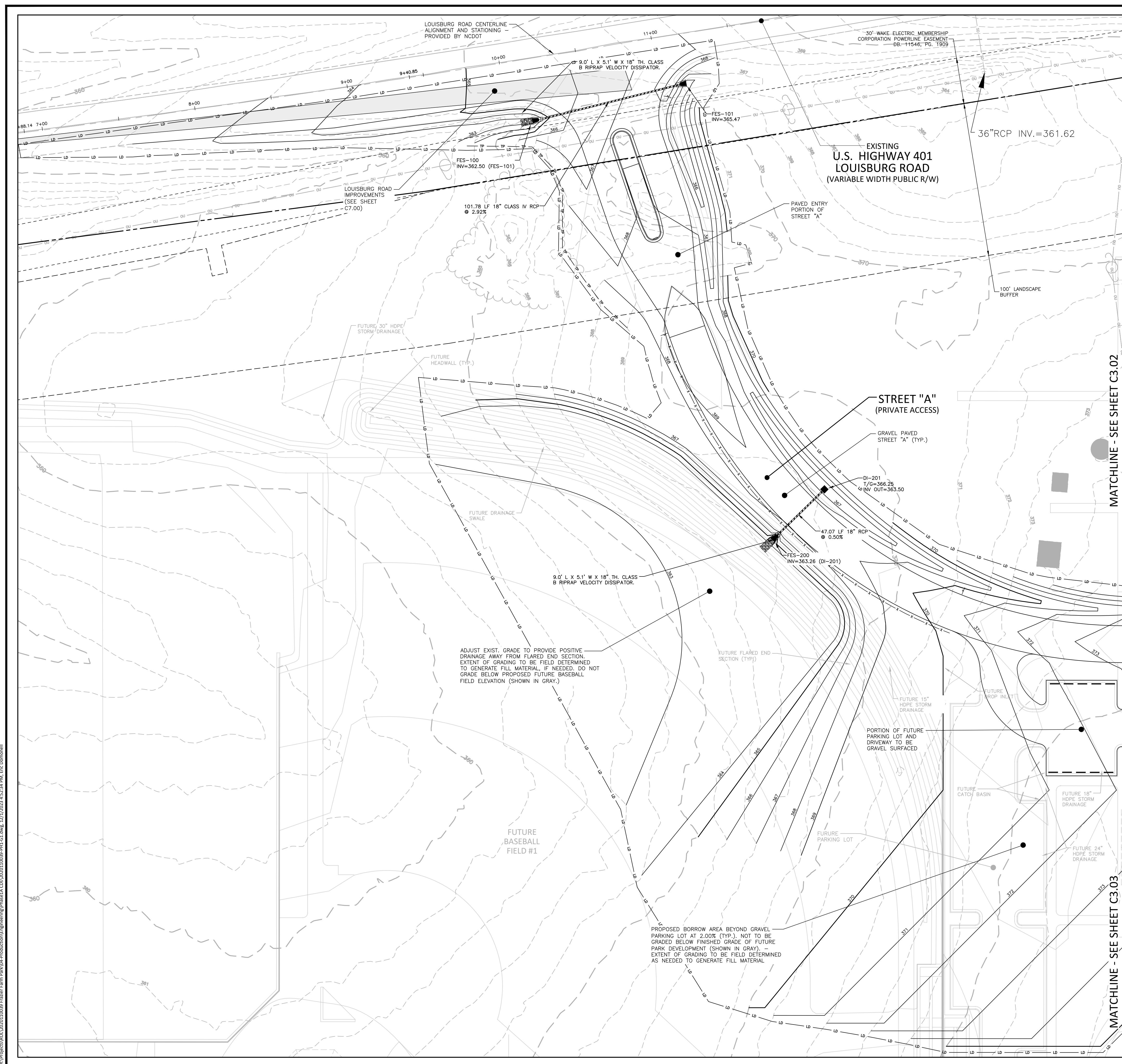


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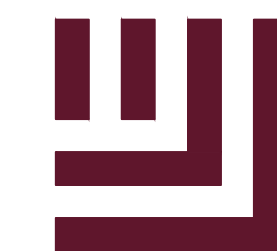


ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



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PHONE: 919.554.6582

FRAZIER FARM PARK
CONSTRUCTION DRAWINGS
PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-G1
CHECKED BY EMD
DRAWN BY SME
SCALE 1"=30'
DATE 12.01.2023

SHEET

GRADING & DRAINAGE
PLAN: AREA 'B'

C3.02

CID-23-5

GRADING LEGEND

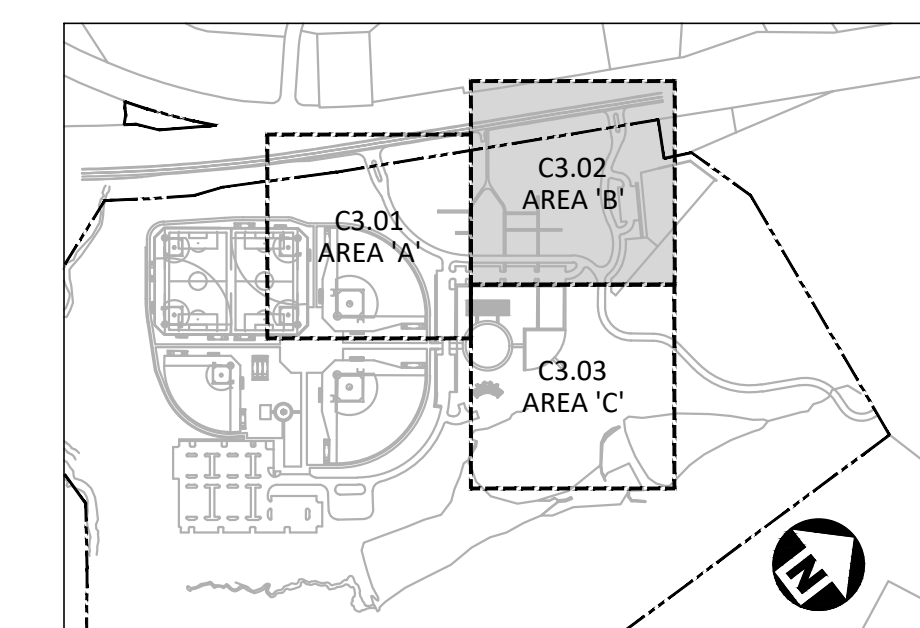
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GRADING NOTES

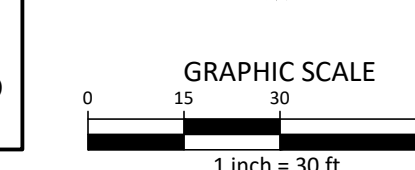
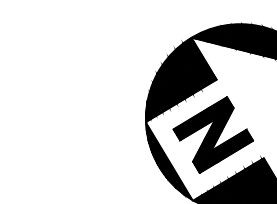
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INDEX MAP
N.T.S.



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MATCHLINE - SEE SHEET C3.03

MATCHLINE - SEE SHEET C3.01

M:\Projects\WOL\2020110039 Frazier Farm PH1A\04-Production\Engineering\Phase1A_CD\2020110039-PH1-G1.dwg, 12/1/2023 4:52:37 PM, Eric Domonell



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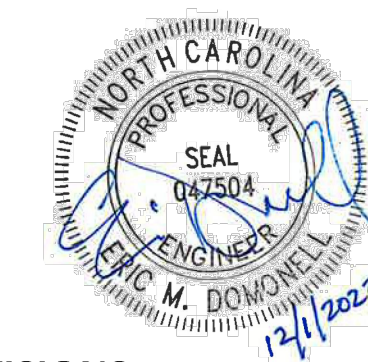
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**FRAZIER FARM PARK
CONSTRUCTION DRAWINGS
PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA**



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-G1
CHECKED BY EMD
DRAWN BY SME
SCALE 1"=30'
DATE 12.01.2023

SHEET

**GRADING & DRAINAGE
PLAN: AREA 'C'**

C3.03

CID-23-5

GRADING LEGEND

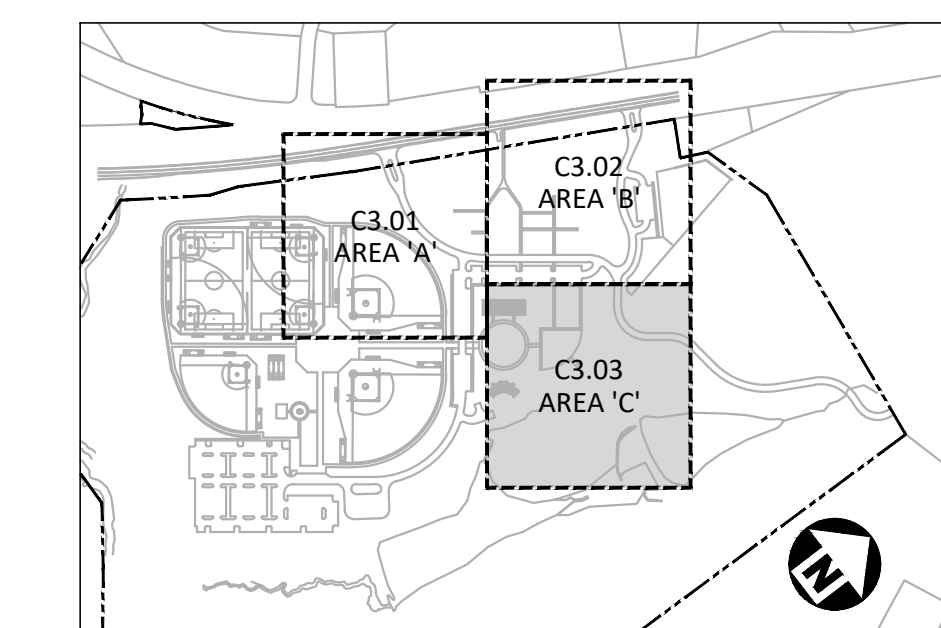
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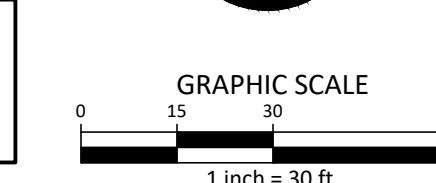
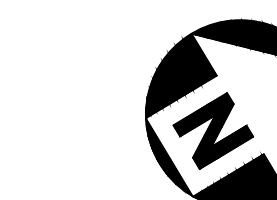
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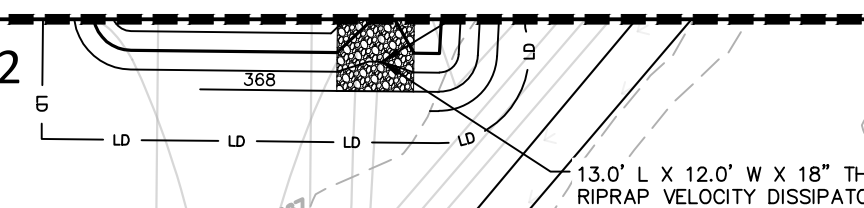


INDEX MAP
N.T.S.



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MATCHLINE - SEE SHEET C3.02

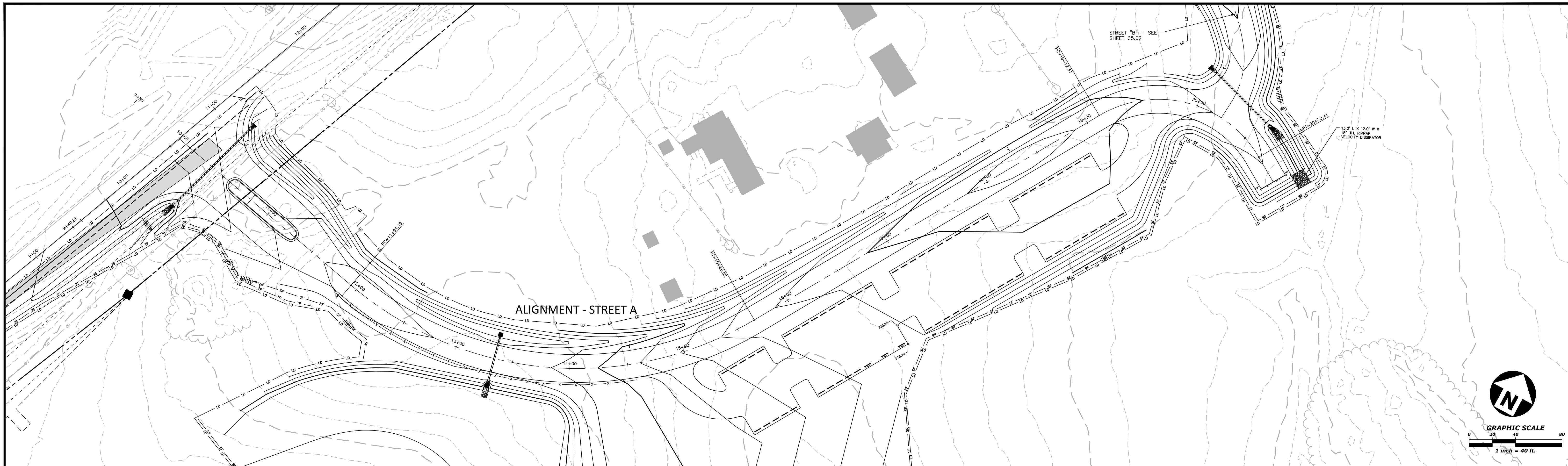


PROPOSED BORROW AREA BEYOND GRAVEL PARKING LOT AT 2.00% (TYP.), NOT TO BE GRADED BELOW FINISHED GRADE OF FUTURE PARK DEVELOPMENT (SHOWN IN GRAY). - EXTENT OF GRADING TO BE FIELD DETERMINED AS NEEDED TO GENERATE FILL MATERIAL

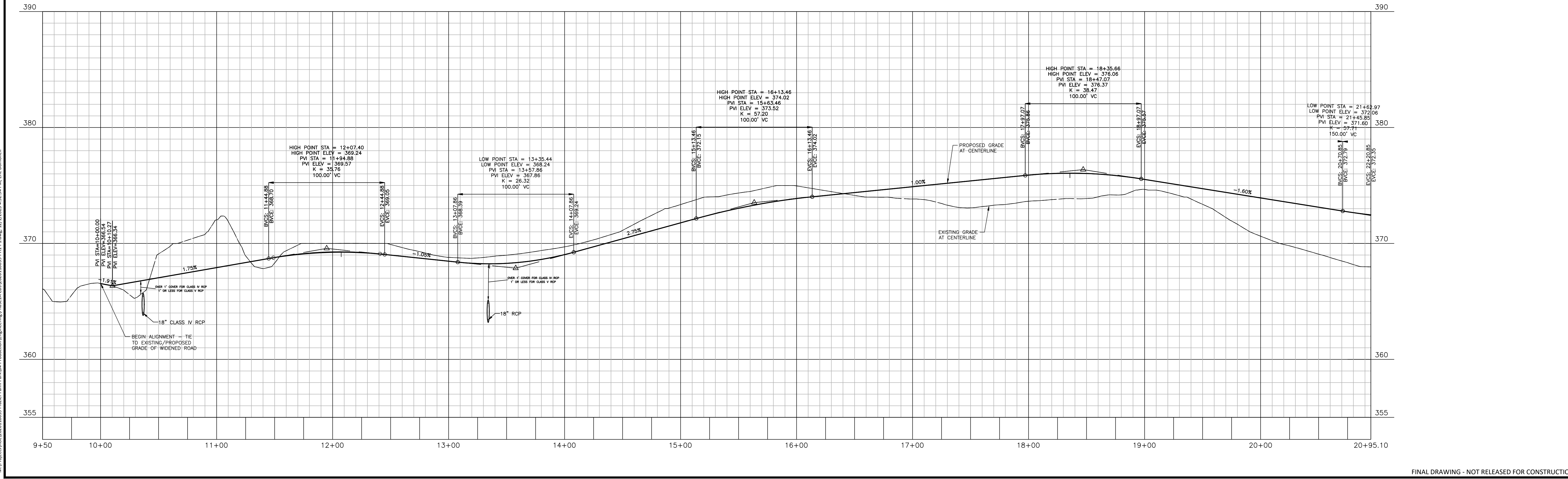
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PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



ALIGNMENT - STREET A



M:\Projects\BOL\2020110039 Frazier Farm Park\104-Production\Engineering\Phase1A\CD\2020110039-PH1-P1.dwg, 12/1/2023 4:52:54 PM, EIC, Donnell

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



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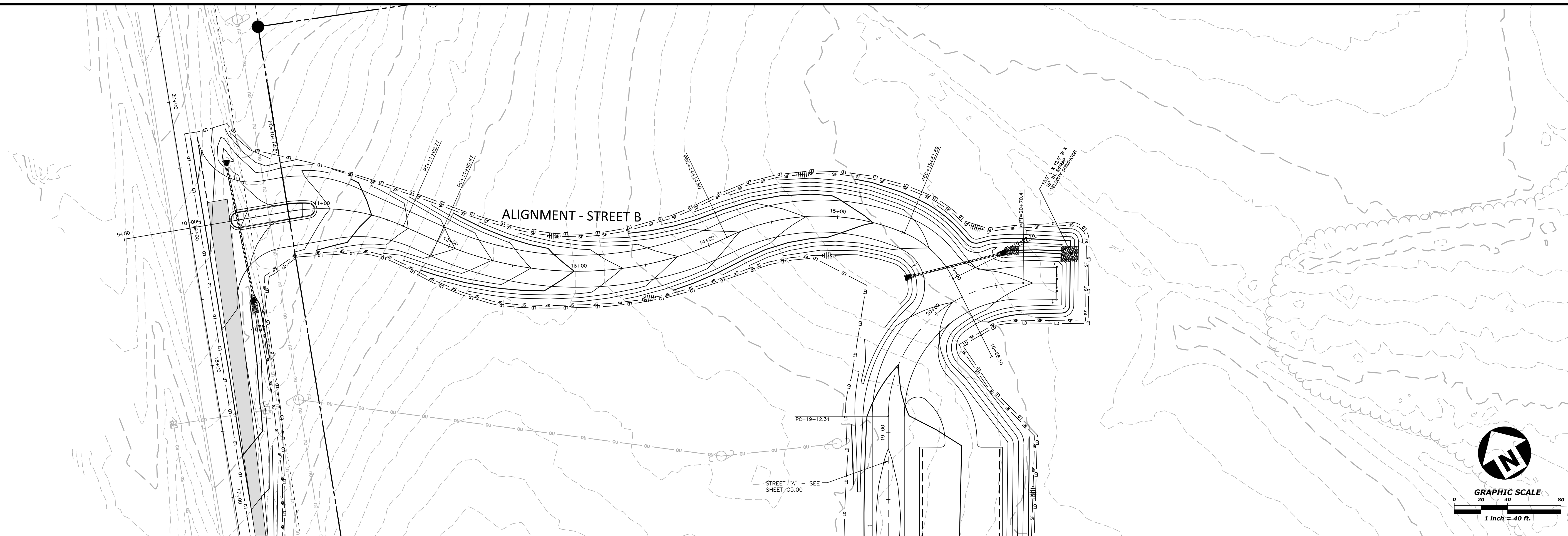
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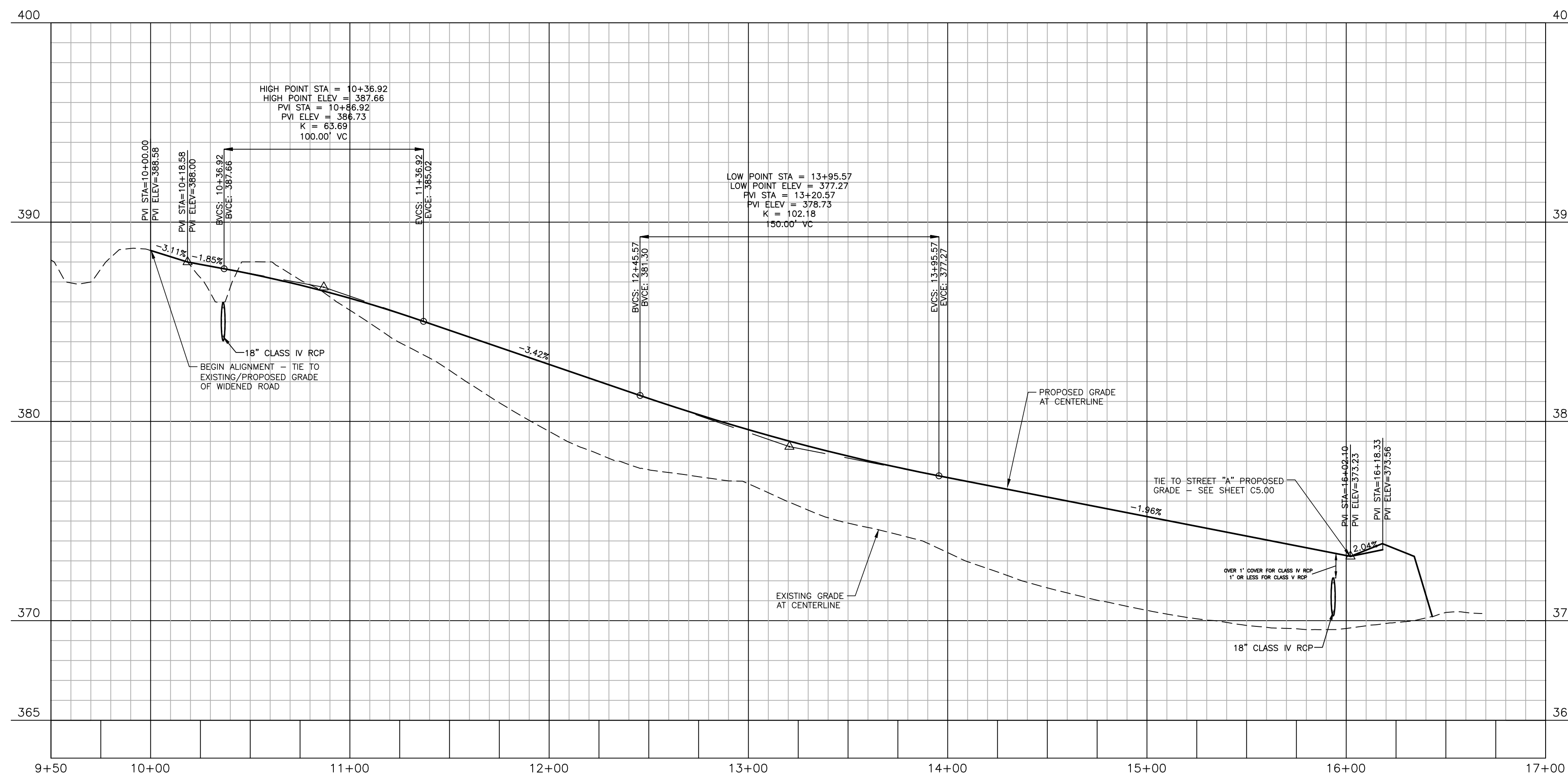
FRAZIER FARM PARK
CONSTRUCTION DRAWINGS - PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA

PLAN INFORMATION
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FILENAME 2020110039-PH1-P1
CHECKED BY EMD
DRAWN BY SME
SCALE H:1"=40' / V:1"=4'
DATE 12.01.2023

PLAN AND PROFILE
STREET "A", STA. 10+00 THRU STA. 20+95.10
C5.00



ALIGNMENT - STREET B



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

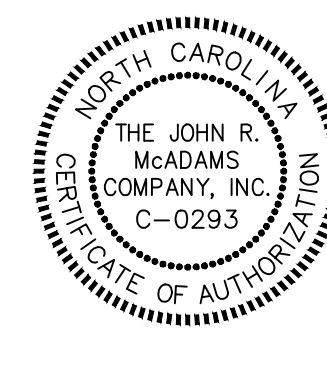
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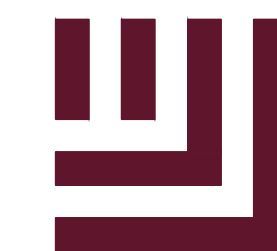


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PLAN AND PROFILE
STREET "B", STA. 10+00 THRU STA. 16+35

C5.01



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DATE 12.01.2023

SHEET

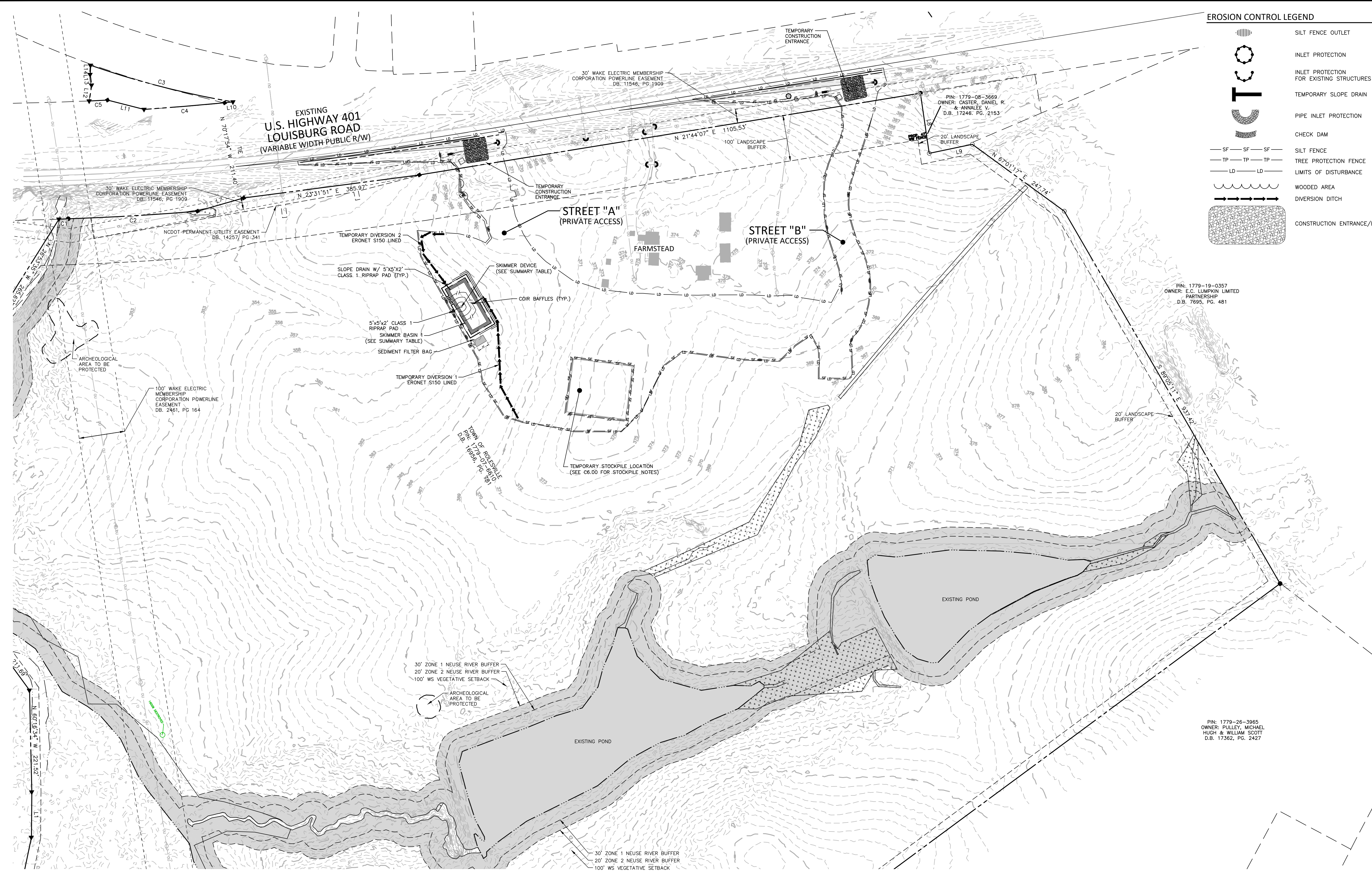
OVERALL EROSION CONTROL PLAN-STAGE I

C6.01

CID-23-5

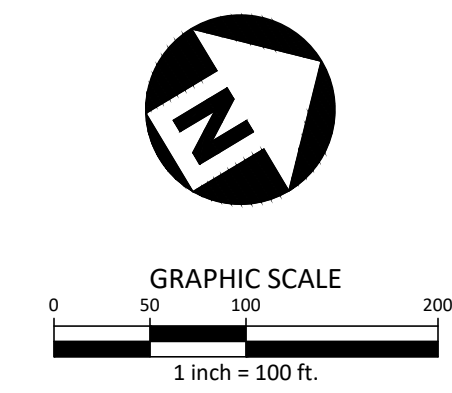
EROSION CONTROL LEGEND

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



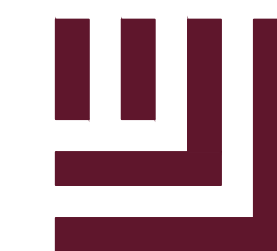
SEDIMENT BASIN SUMMARY TABLE				
ID	BOTTOM LENGTH X WIDTH	SPILLWAY LENGTH	SKIMMER AND ORIFICE SIZE	SIDESLOPES
SB-1	100' X 37'	15'	2" SKIMMER W/ 1.4" ORIFICE	2:1

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS



PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
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PHASE 1A
11624 LOUISBURG ROAD
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NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-EC2
CHECKED BY EMD
DRAWN BY SME
SCALE 1"=100'
DATE 12.01.2023

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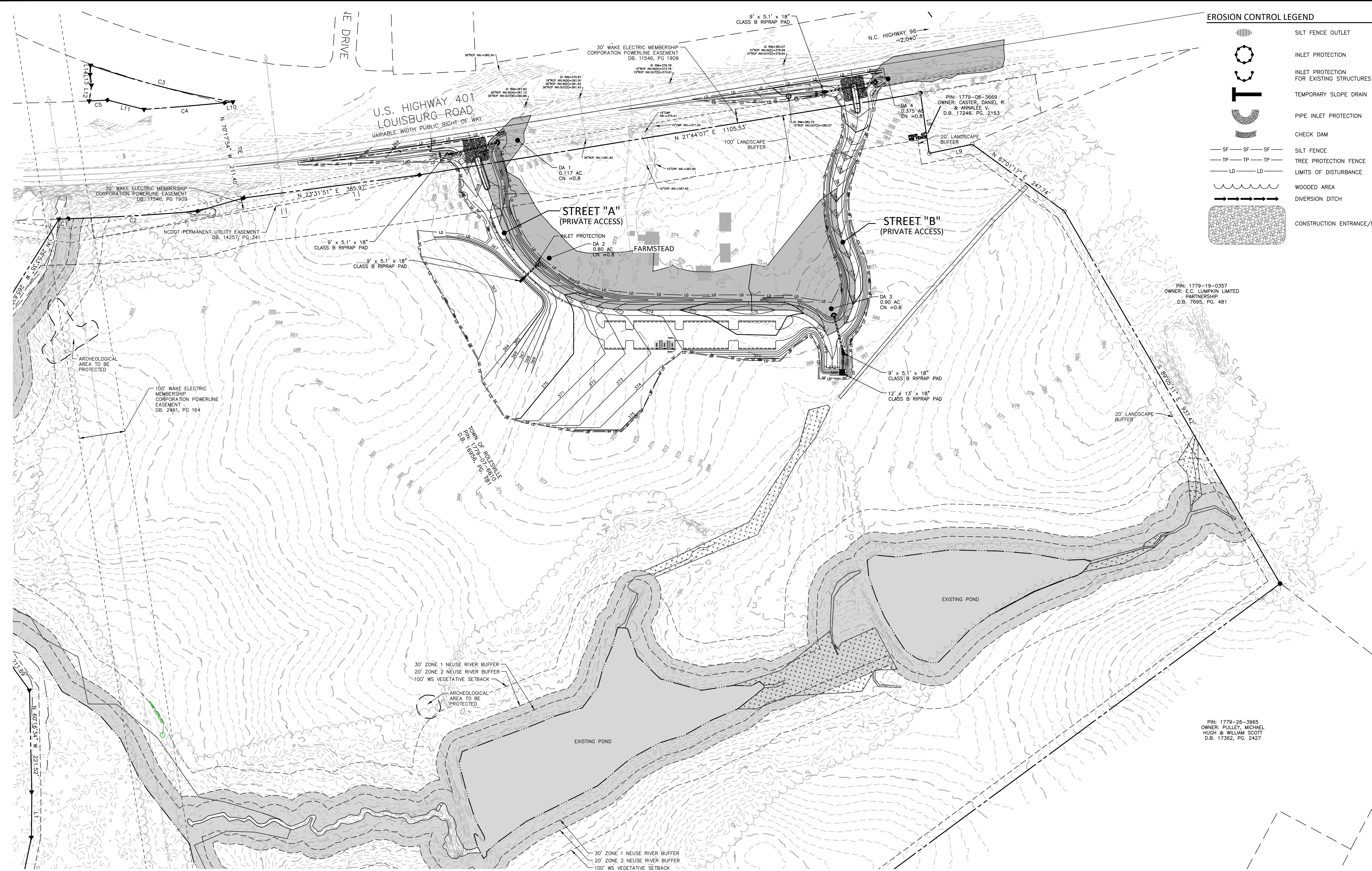
OVERALL EROSION CONTROL PLAN-STAGE II

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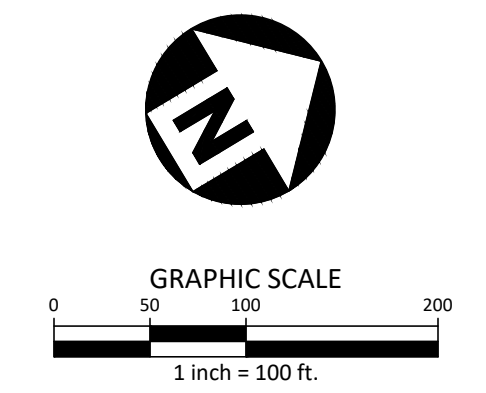
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EROSION CONTROL LEGEND

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

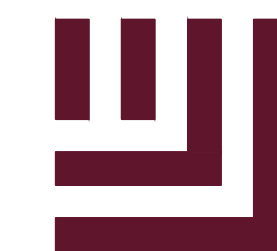


ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS



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NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-ECN3
CHECKED BY EMD
DRAWN BY SME
SCALE N/A
DATE 12.01.2023

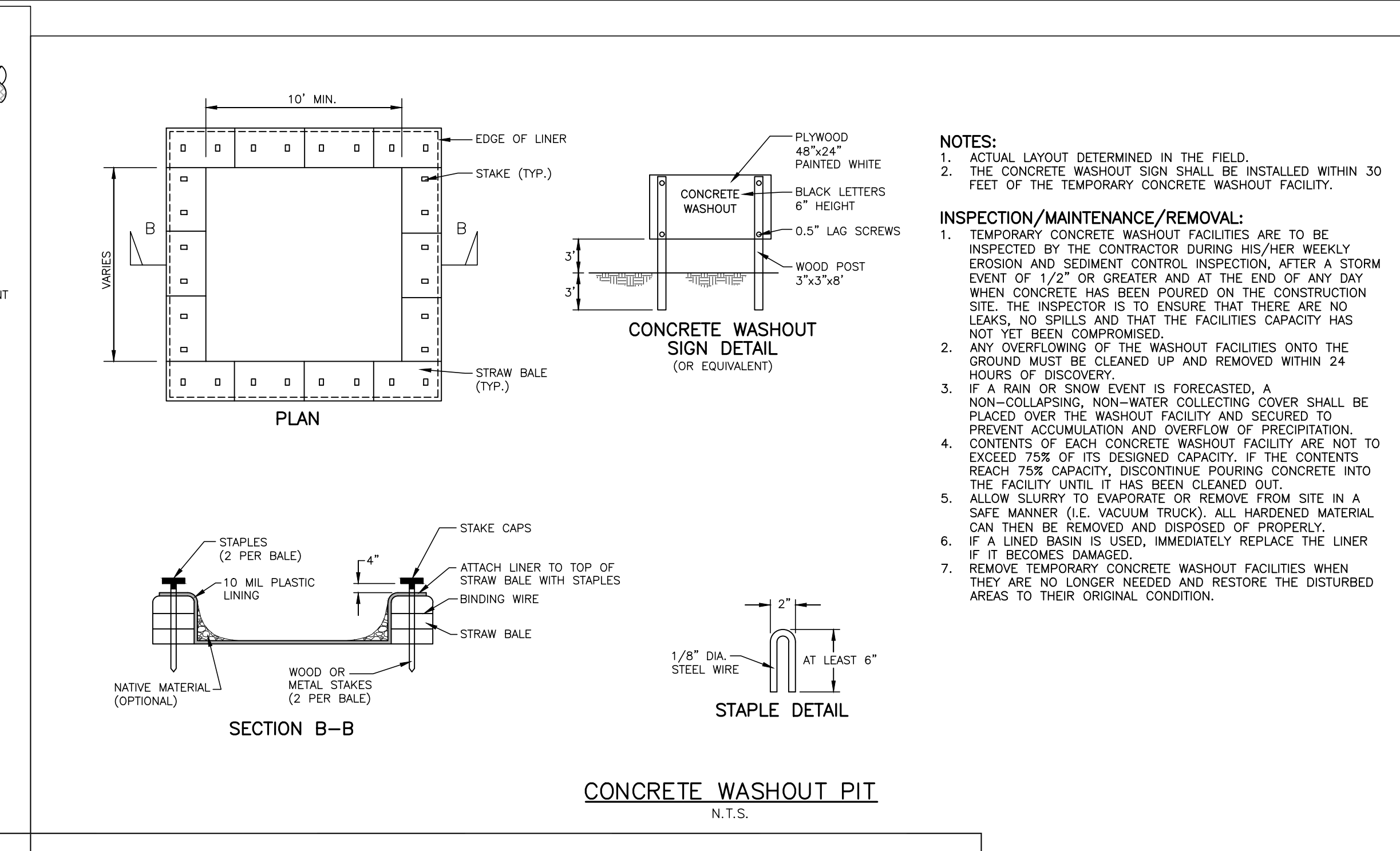
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EROSION CONTROL
DETAILS

C6.10

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS CID-235

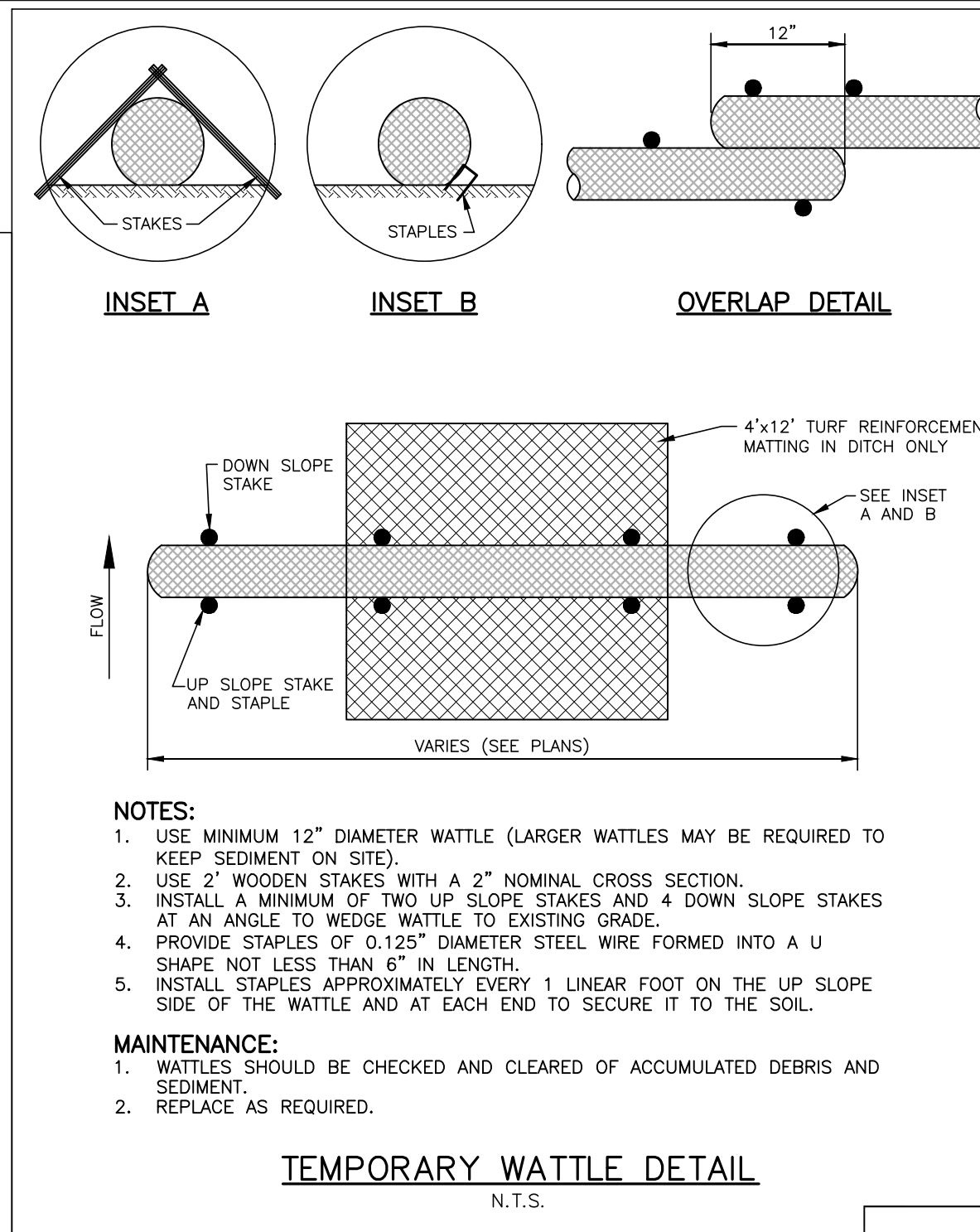
PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



- NOTES: 1. ACTUAL LAYOUT DETERMINED IN THE FIELD. 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

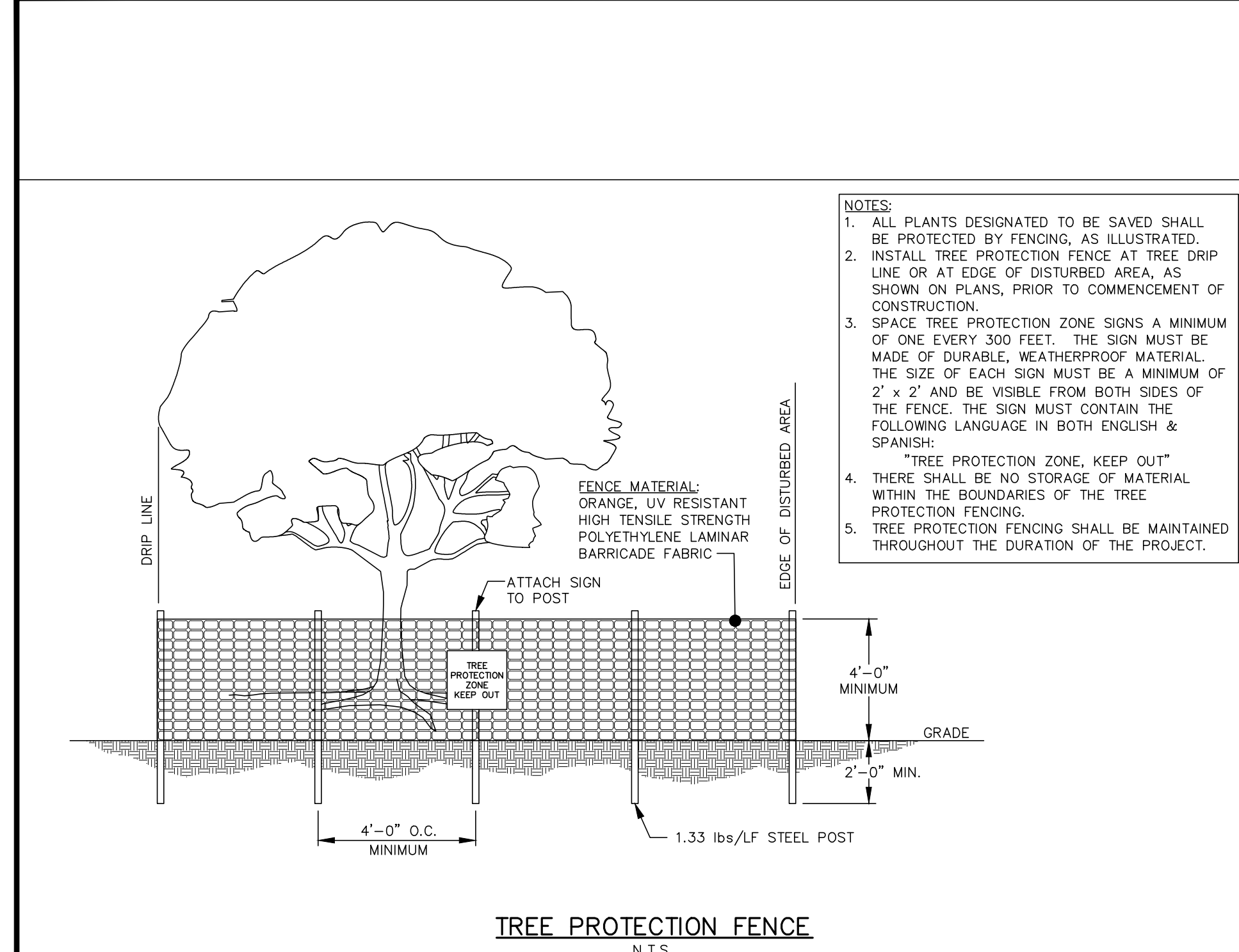
INSPECTION/MAINTENANCE/REMOVAL:

- 1. TEMPORARY CONCRETE WASHOUT FACILITIES ARE TO BE INSPECTED BY THE CONTRACTOR DURING HIS/HER WEEKLY EROSION AND SEDIMENT CONTROL INSPECTION, AFTER A STORM EVENT OF 1/2" OR GREATER AND AT THE END OF ANY DAY WHEN CONCRETE HAS BEEN POURED ON THE CONSTRUCTION SITE. THE INSPECTOR IS TO ENSURE THAT THERE ARE NO LEAKS, NO SPILLS AND THAT THE FACILITIES CAPACITY HAS NOT YET BEEN COMPROMISED. 2. ANY OVERFLOWING OF THE WASHOUT FACILITIES ONTO THE GROUND MUST BE CLEANED UP AND REMOVED WITHIN 24 HOURS OF DISCOVERY. 3. IF A RAIN OR SNOW EVENT IS FORECASTED, A NON-COLLAPSING, NON-WATER COLLECTING COVER SHALL BE PLACED OVER THE WASHOUT FACILITY AND SECURED TO PREVENT ACCUMULATION AND OVERFLOW OF PRECIPITATION. CONTENTS OF EACH CONCRETE WASHOUT FACILITY ARE NOT TO EXCEED 75% OF ITS DESIGNED CAPACITY. IF THE CONTENTS REACH 75% CAPACITY, DISCONTINUE POURING CONCRETE INTO THE FACILITY UNTIL IT HAS BEEN CLEANED OUT. 4. ALLOW SLURRY TO EVAPORATE OR REMOVE FROM SITE IN A SAFE MANNER (I.E. VACUUM TRUCK). ALL HARDENED MATERIAL CAN THEN BE REMOVED AND DISPOSED OF PROPERLY. 5. IF A LINED BASIN IS USED, IMMEDIATELY REPLACE THE LINER IF IT BECOMES DAMAGED. 6. REMOVE TEMPORARY CONCRETE WASHOUT FACILITIES WHEN THEY ARE NO LONGER NEEDED AND RESTORE THE DISTURBED AREAS TO THEIR ORIGINAL CONDITION.



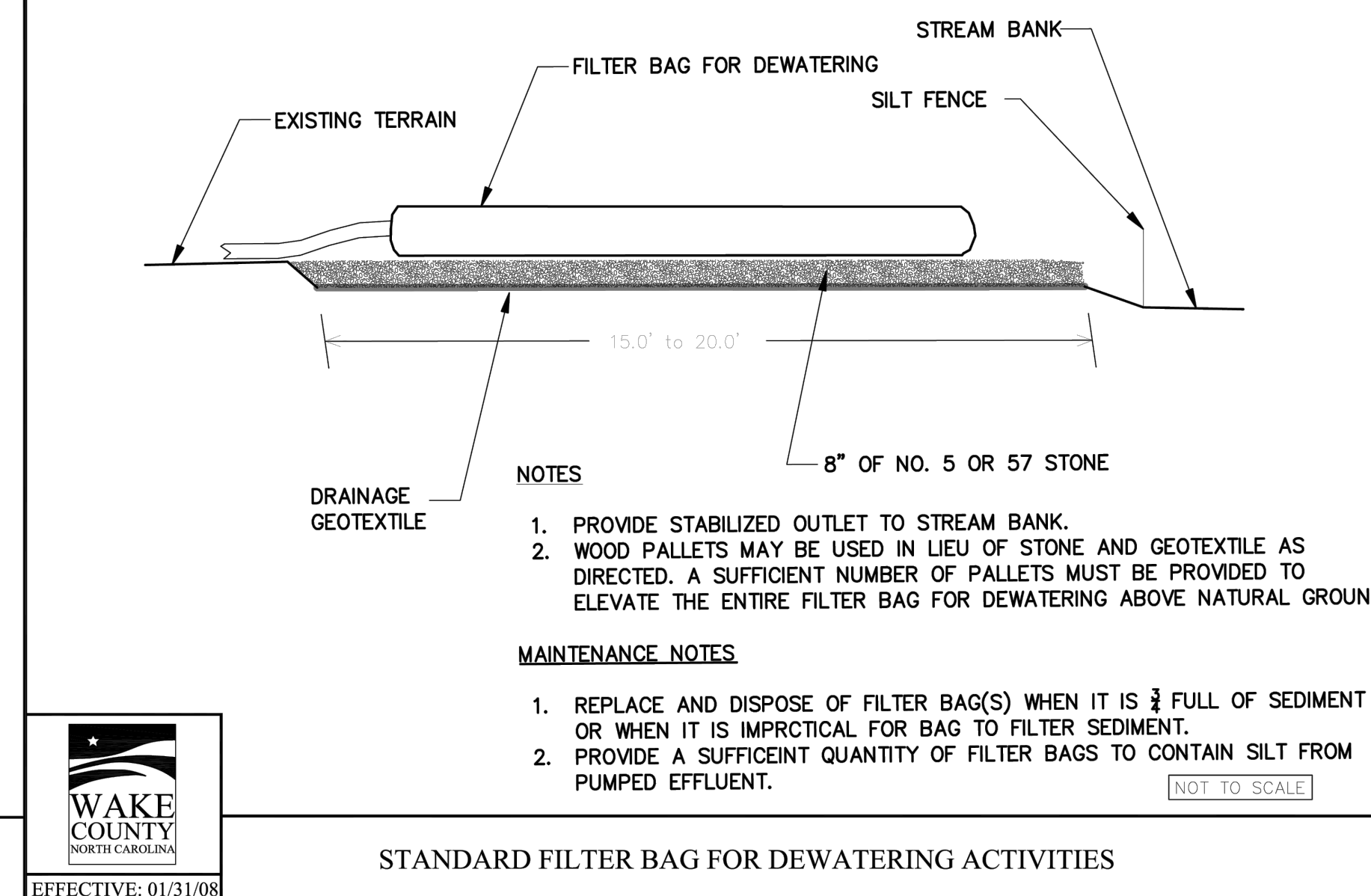
- NOTES: 1. USE MINIMUM 12" DIAMETER WATTLE (LARGER WATTLES MAY BE REQUIRED TO KEEP SEDIMENT ON SITE). 2. USE 2" WOODEN STAKES WITH A 2" NOMINAL CROSS SECTION. 3. INSTALL A MINIMUM OF TWO UP SLOPE STAKES AND 4 DOWN SLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO EXISTING GRADE. 4. PROVIDE STAPLES OF 0.125"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

- MAINTENANCE: 1. WATTLES SHOULD BE CHECKED AND CLEARED OF ACCUMULATED DEBRIS AND SEDIMENT. 2. REPLACE AS REQUIRED.



- NOTES: 1. ALL PLANTS DESIGNATED TO BE SAVED SHALL BE PROTECTED BY FENCING, AS ILLUSTRATED. 2. INSTALL TREE PROTECTION FENCE AT TREE DRIP LINE OR AT EDGE OF DISTURBED AREA, AS SHOWN ON PLANS, PRIOR TO COMMENCEMENT OF CONSTRUCTION. 3. SPACE TREE PROTECTION ZONE SIGNS A MINIMUM OF ONE EVERY 300 FEET. THE SIGN MUST BE MADE OF DURABLE, WEATHERPROOF MATERIAL. THE SIZE OF EACH SIGN MUST BE A MINIMUM OF 2' x 2' AND BE VISIBLE FROM BOTH SIDES OF THE FENCE. THE SIGN MUST CONTAIN THE FOLLOWING LANGUAGE IN BOTH ENGLISH & SPANISH: "TREE PROTECTION ZONE, KEEP OUT" 4. THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE BOUNDARIES OF THE TREE PROTECTION FENCING. 5. TREE PROTECTION FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

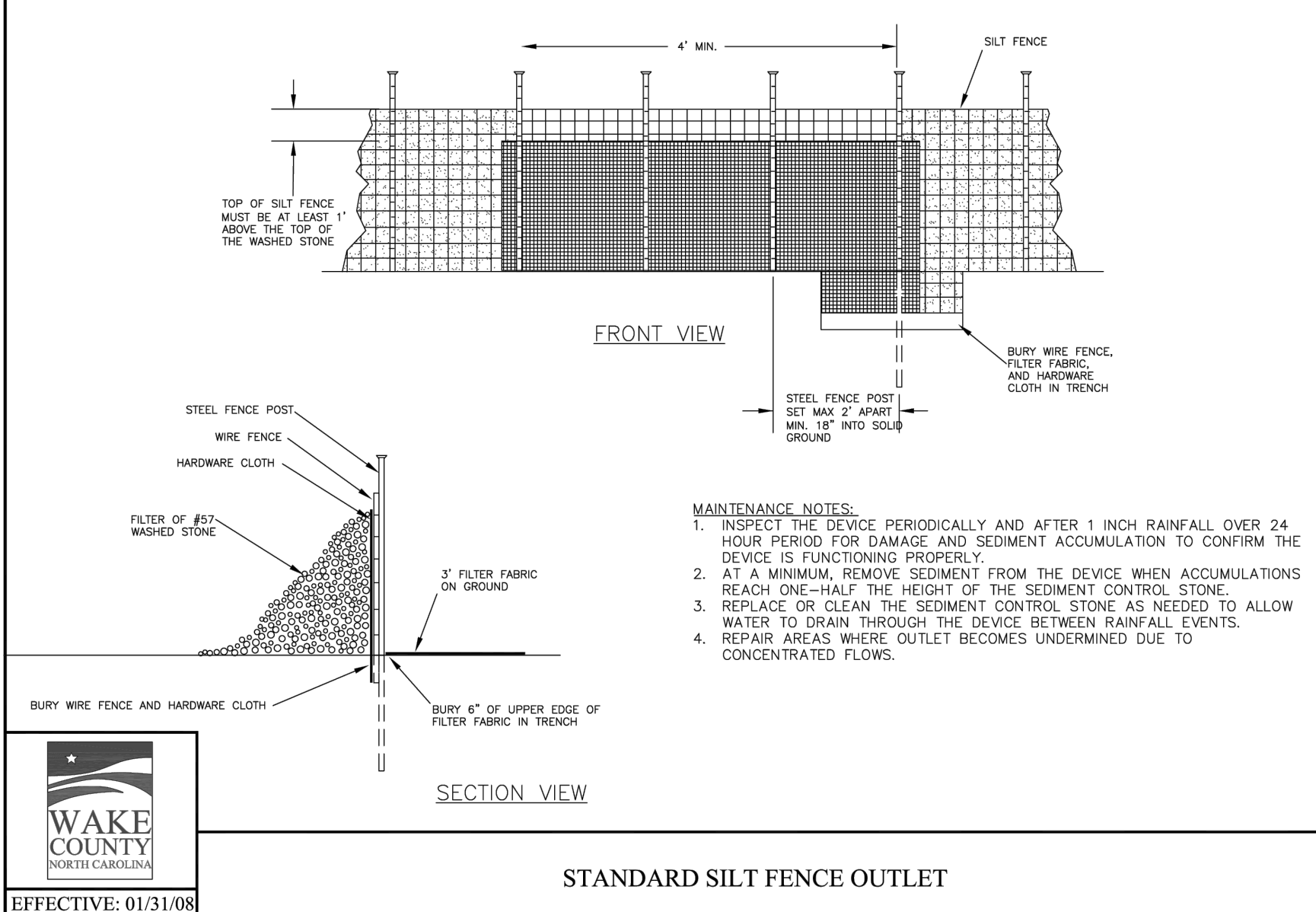
TREE PROTECTION FENCE N.T.S.



- NOTES: 1. PROVIDE STABILIZED OUTLET TO STREAM BANK. 2. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE FILTER BAG FOR DEWATERING ABOVE NATURAL GROUND.

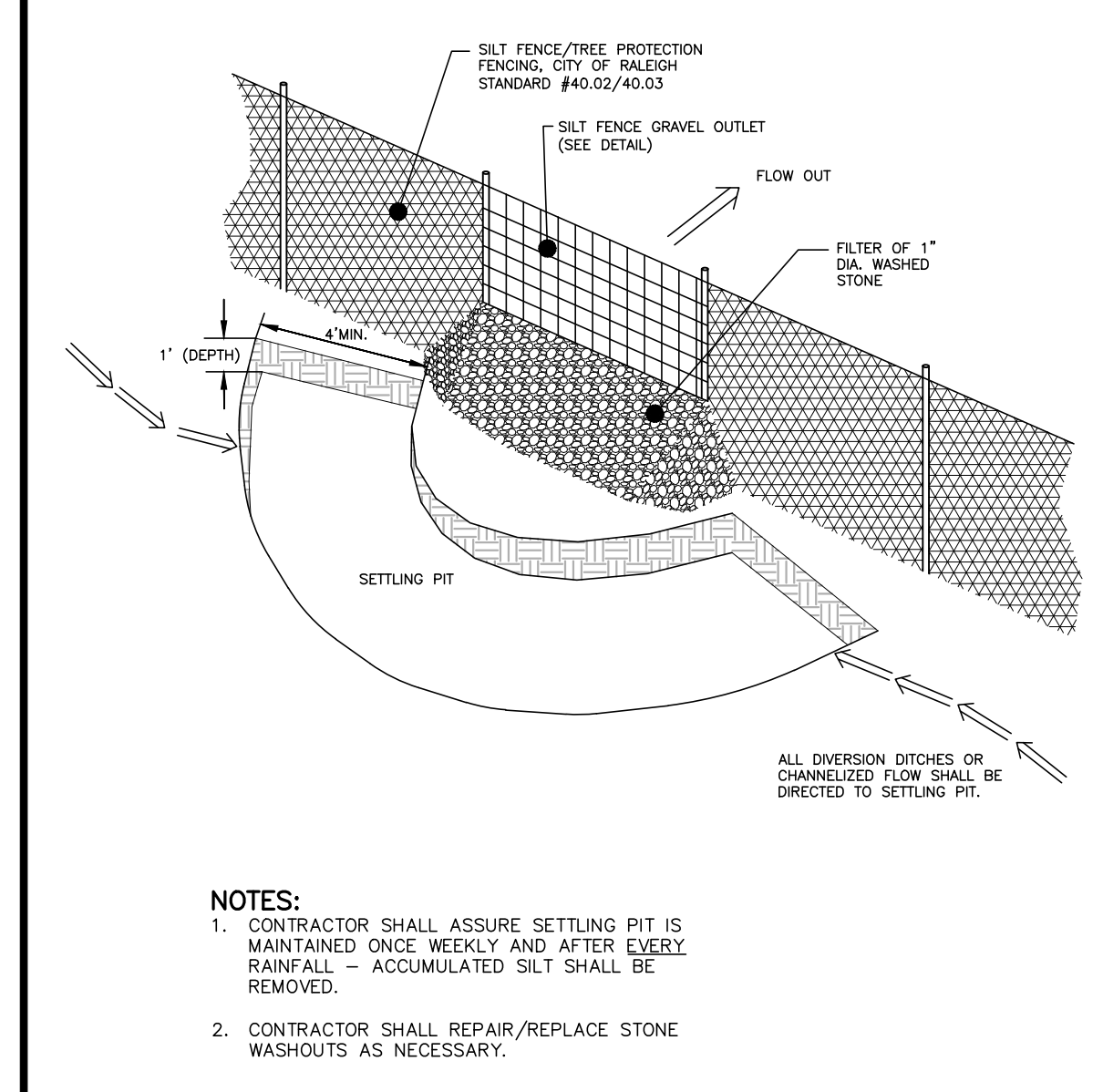
- MAINTENANCE NOTES: 1. REPLACE AND DISPOSE OF FILTER BAG(S) WHEN IT IS 3/4 FULL OF SEDIMENT OR WHEN IT IS IMPRACTICAL FOR BAG TO FILTER SEDIMENT. 2. PROVIDE A SUFFICIENT QUANTITY OF FILTER BAGS TO CONTAIN SILT FROM PUMPED EFFLUENT.

STANDARD FILTER BAG FOR DEWATERING ACTIVITIES NOT TO SCALE



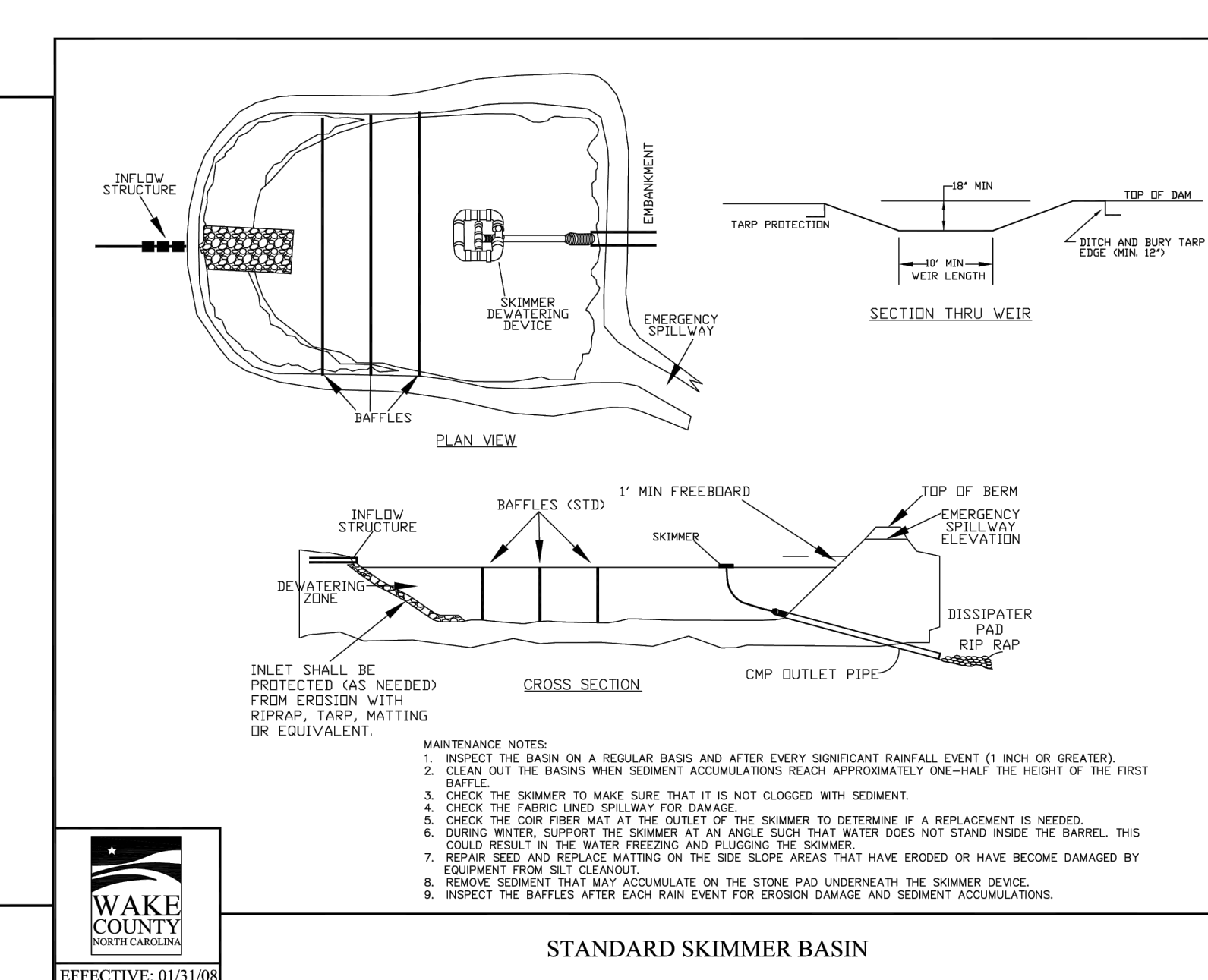
- MAINTENANCE NOTES: 1. INSPECT THE DEVICE PERIODICALLY AND AFTER 1 INCH RAINFALL OVER 24 HOUR PERIOD FOR DAMAGE AND SEDIMENT ACCUMULATION TO CONFIRM THE DEVICE IS FUNCTIONING PROPERLY. 2. AT A MINIMUM, REMOVE SEDIMENT FROM THE DEVICE WHEN ACCUMULATIONS REACH ONE-HALF THE HEIGHT OF THE SEDIMENT CONTROL STONE. 3. REPLACE OR CLEAN THE SEDIMENT CONTROL STONE AS NEEDED TO ALLOW WATER TO DRAIN THROUGH THE DEVICE BETWEEN RAINFALL EVENTS. 4. REPAIR AREAS WHERE OUTLET BECOMES UNDERMINED DUE TO CONCENTRATED FLOWS.

STANDARD SILT FENCE OUTLET



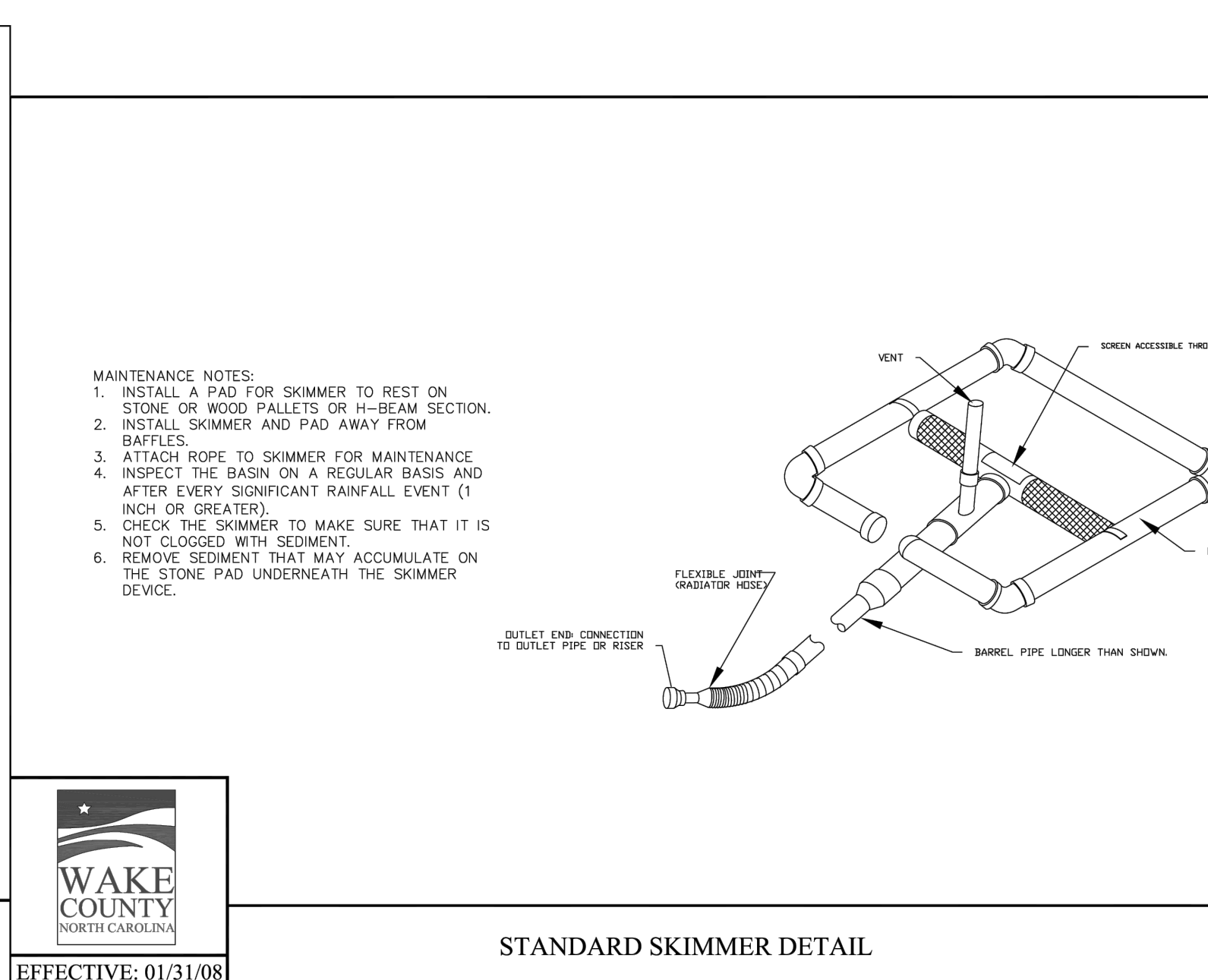
- NOTES: 1. CONTRACTOR SHALL ASSURE SETTLING PIT IS MAINTAINED ONCE WEEKLY AND AFTER EVERY RAINFALL - ACCUMULATED SILT SHALL BE REMOVED. 2. CONTRACTOR SHALL REPAIR/REPLACE STONE WASHOUTS AS NECESSARY.

SILT FENCE OUTLET SETTLING PIT N.T.S.



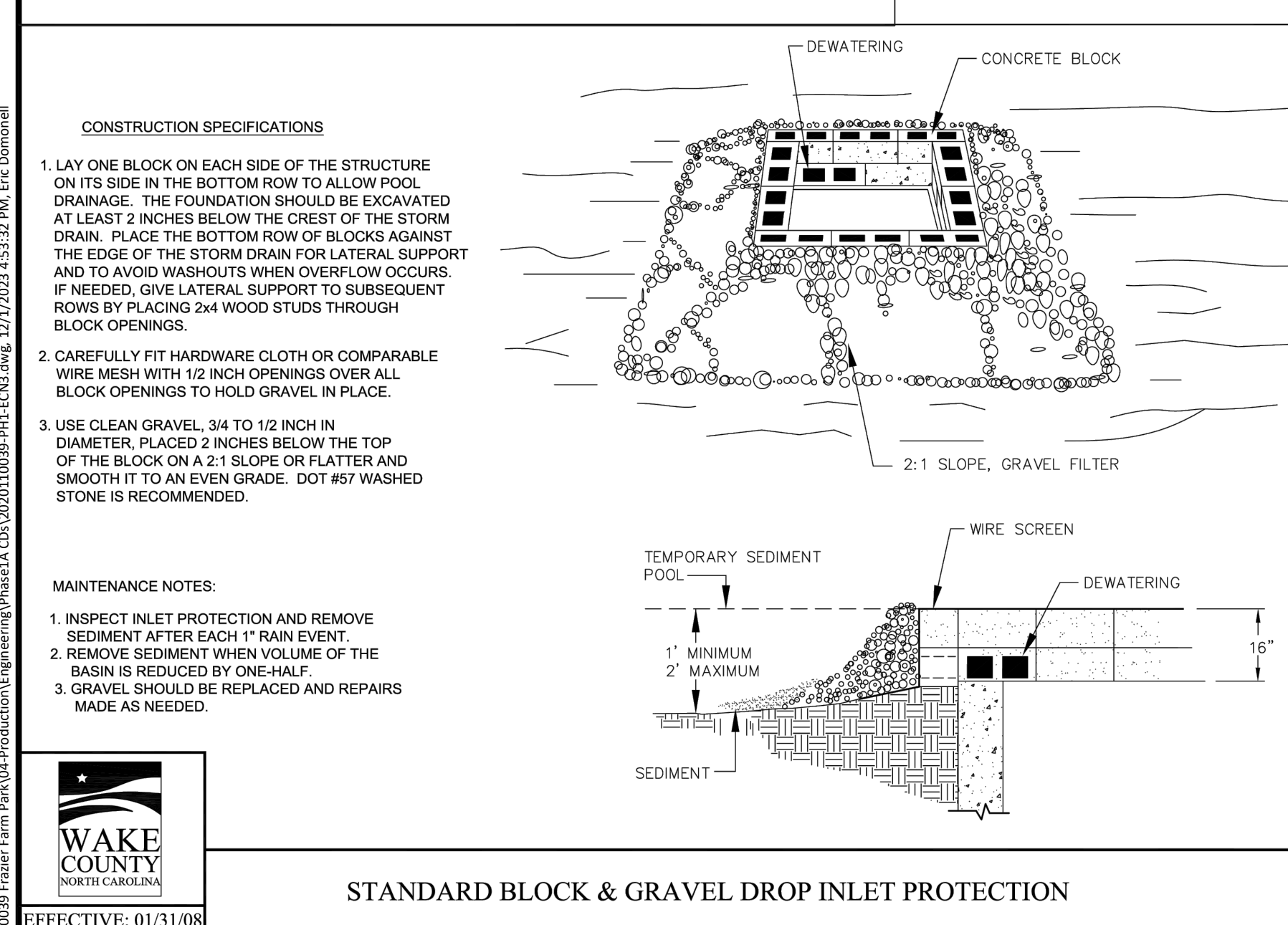
- MAINTENANCE NOTES: 1. INSPECT THE BASIN ON A REGULAR BASIS AND AFTER EVERY SIGNIFICANT RAINFALL EVENT (1 INCH OR GREATER) BAFFLE. 2. CLEAN OUT THE BASIN WHEN SEDIMENT ACCUMULATIONS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. 3. CHECK THE SKIMMER TO MAKE SURE THAT IT IS NOT CLOGGED WITH SEDIMENT. 4. CHECK THE FABRIC END SPILLWAY FOR DAMAGE. 5. DURING WINTER, SUPPORT THE SKIMMER AT AN ANGLE SUCH THAT WATER DOES NOT STAND INSIDE THE BARREL. THIS COULD RESULT IN THE WATER FREEZING AND PLUGGING THE SKIMMER. 6. REPAIR AND REPLACE MATTING ON THE SIDE SLOPE AREAS THAT HAVE ERODED OR HAVE BECOME DAMAGED BY EQUIPMENT FROM OIL CLEANSING. 7. REMOVE SEDIMENT THAT MAY ACCUMULATE ON THE STONE PAD UNDERNEATH THE SKIMMER DEVICE. 8. INSPECT THE BAFFLES AFTER EACH RAIN EVENT FOR EROSION DAMAGE AND SEDIMENT ACCUMULATIONS.

STANDARD SKIMMER BASIN



- MAINTENANCE NOTES: 1. INSTALL A PAD FOR SKIMMER TO REST ON STONE OR WOOD PALLETS OR IN-BEAM SECTION. 2. INSTALL SKIMMER AND PAD AWAY FROM BAFFLES. 3. ATTACH ROPE TO SKIMMER FOR MAINTENANCE. 4. INSPECT THE BASIN ON A REGULAR BASIS AND AFTER EVERY SIGNIFICANT RAINFALL EVENT (1 INCH OR GREATER). 5. CHECK THE SKIMMER TO MAKE SURE THAT IT IS NOT CLOGGED WITH SEDIMENT. 6. REMOVE SEDIMENT THAT MAY ACCUMULATE ON THE STONE PAD UNDERNEATH THE SKIMMER DEVICE.

STANDARD SKIMMER DETAIL

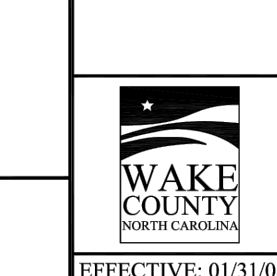
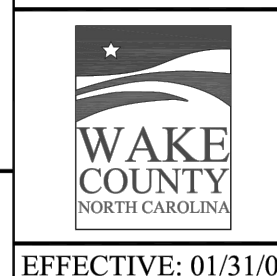
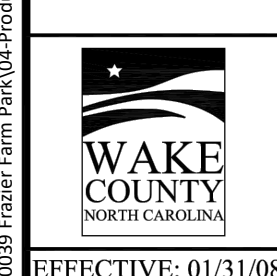


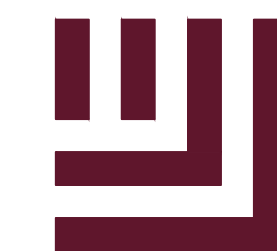
- CONSTRUCTION SPECIFICATIONS: 1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT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

- MAINTENANCE NOTES: 1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH 1" RAIN EVENT. 2. REMOVE SEDIMENT WHEN VOLUME OF THE BASIN IS REDUCED BY ONE-HALF. 3. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

STANDARD BLOCK & GRAVEL DROP INLET PROTECTION

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FRAZIER FARM PARK
CONSTRUCTION DRAWINGS
PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-ECN3
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DRAWN BY SME
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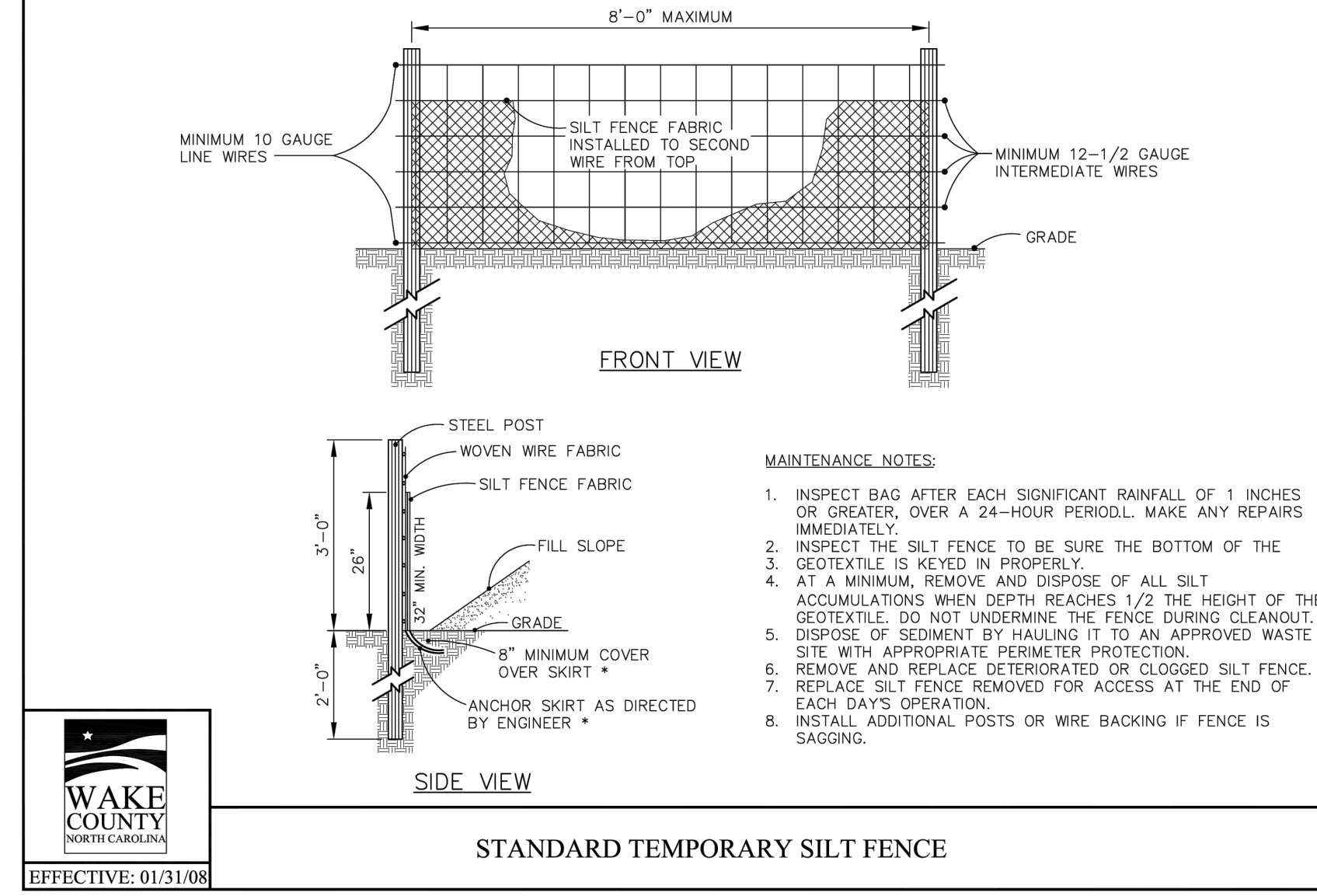
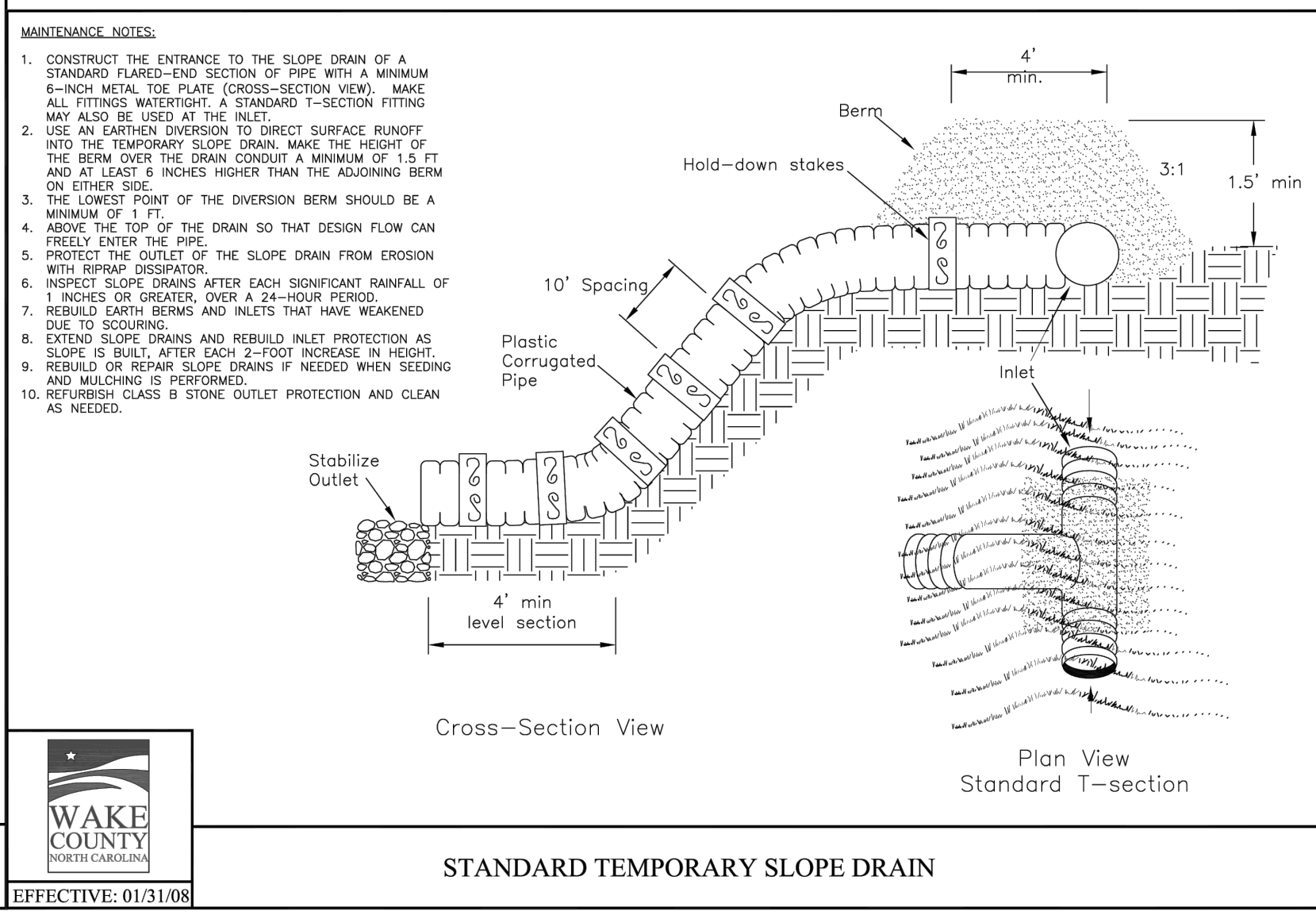
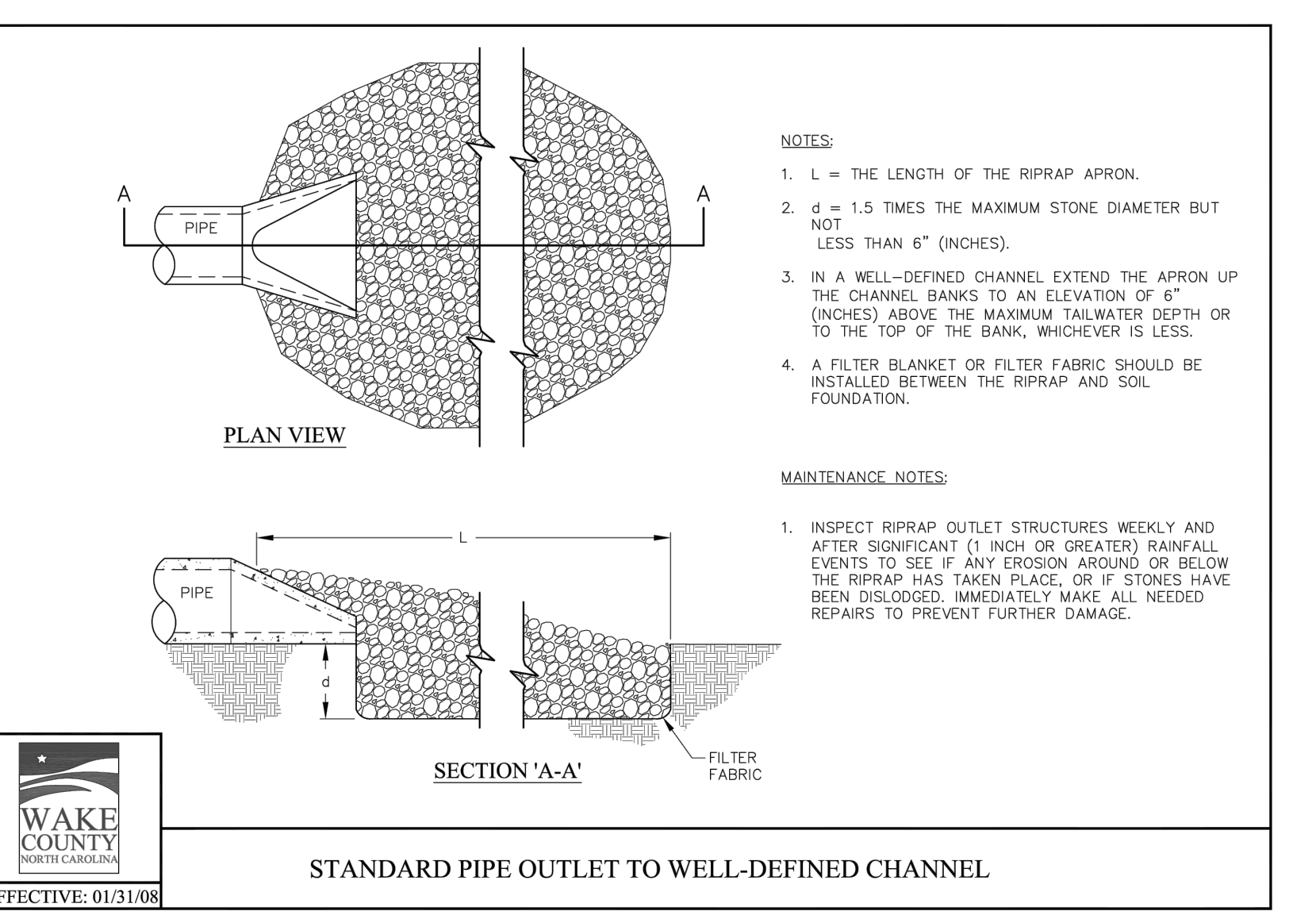
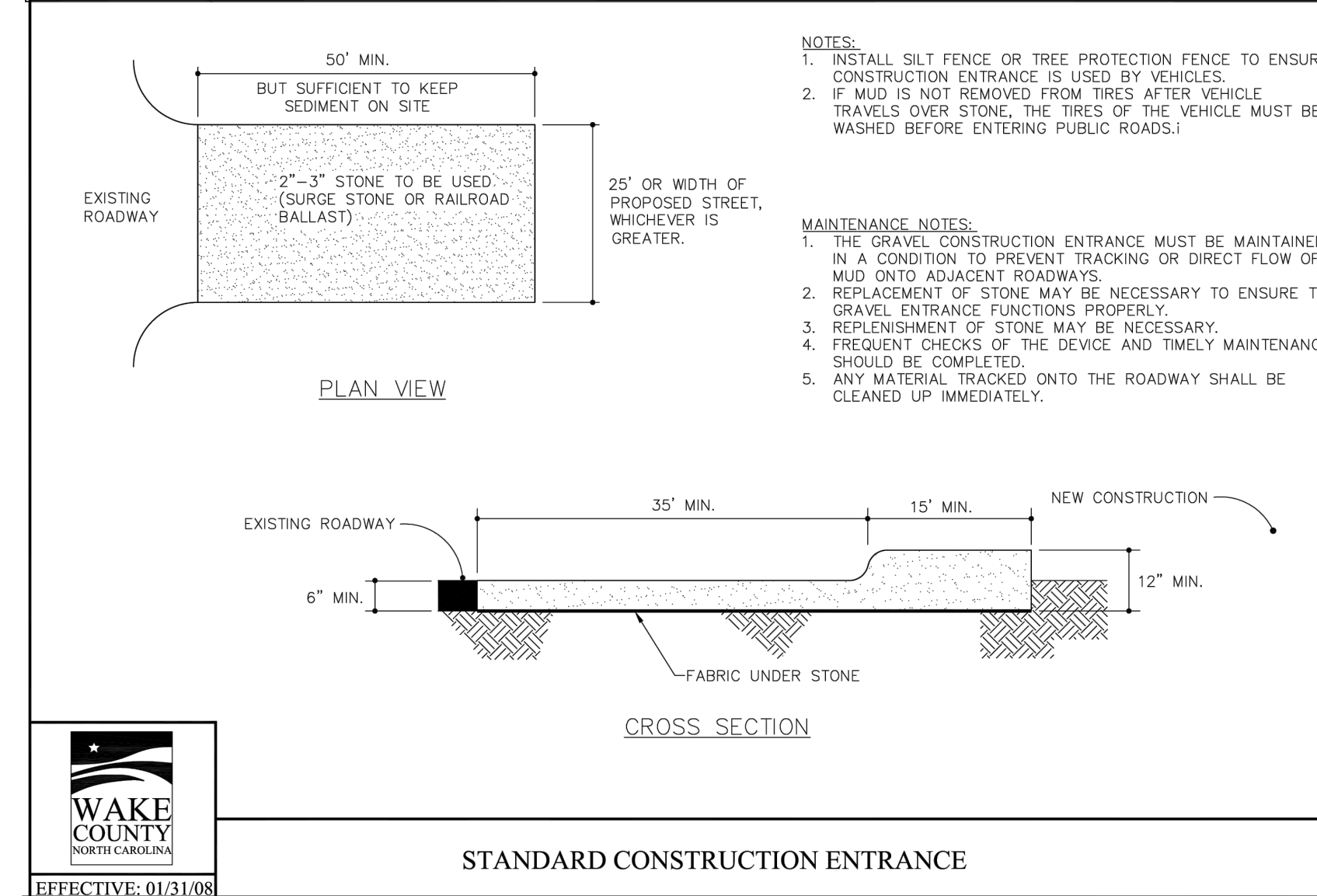
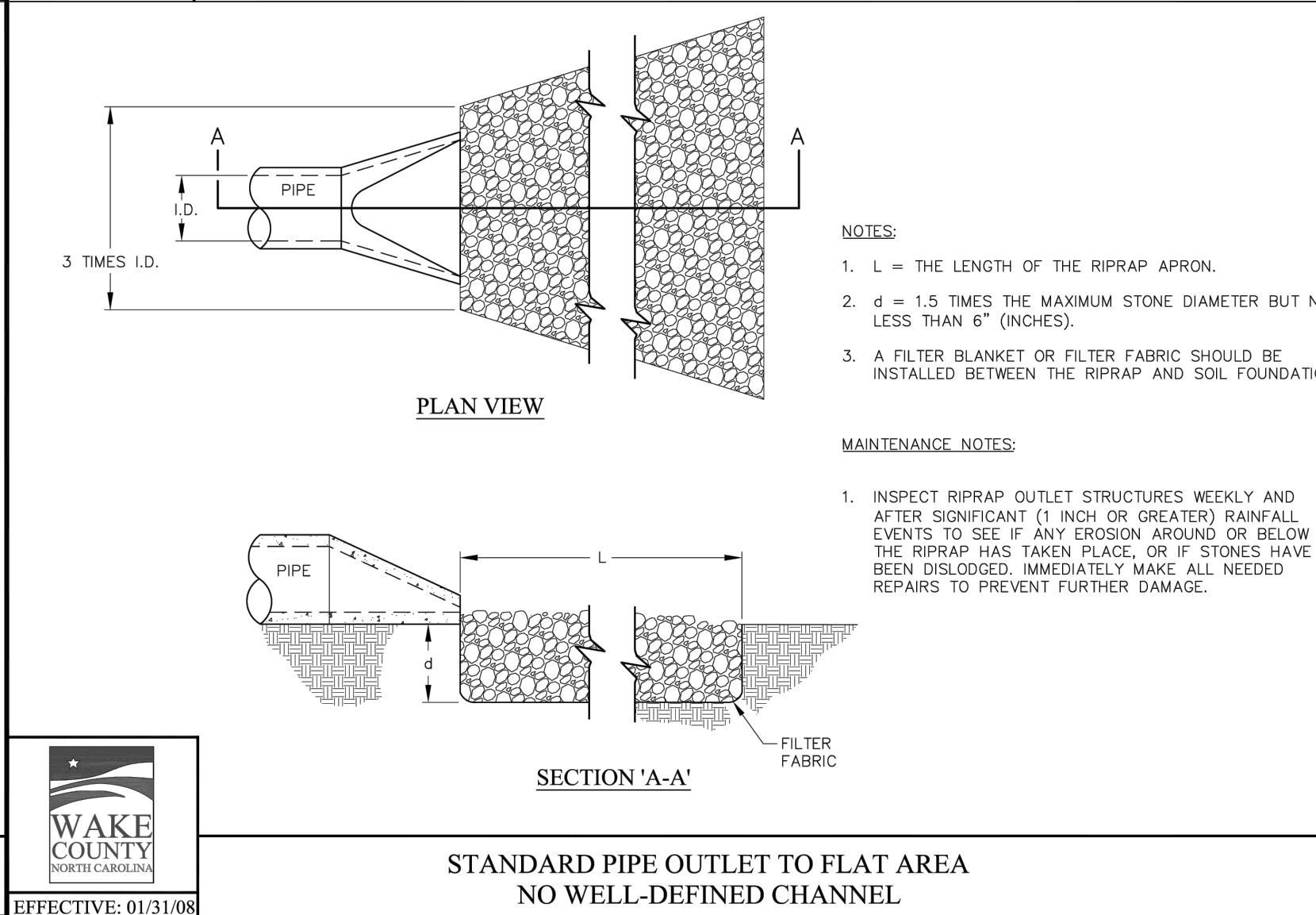
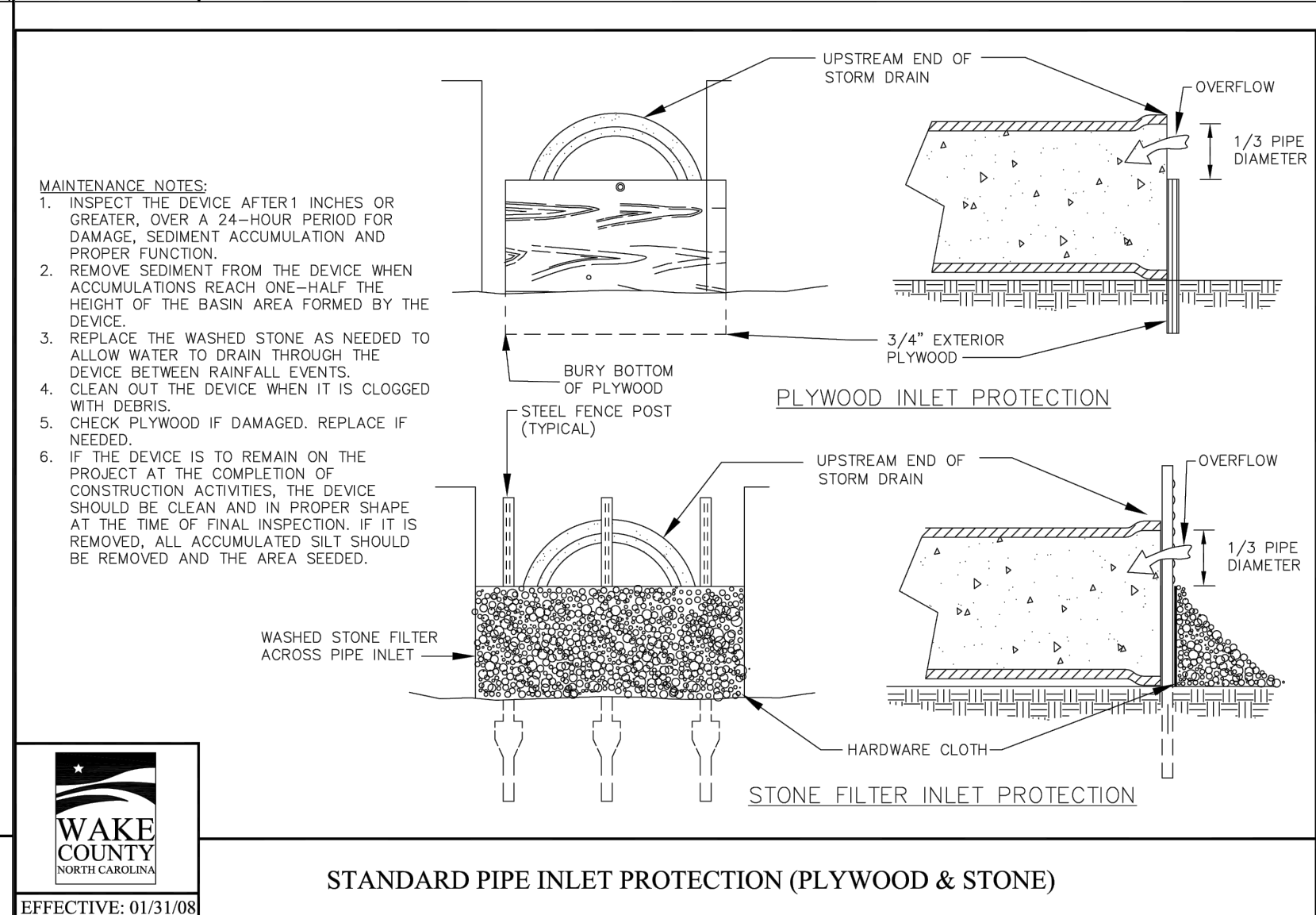
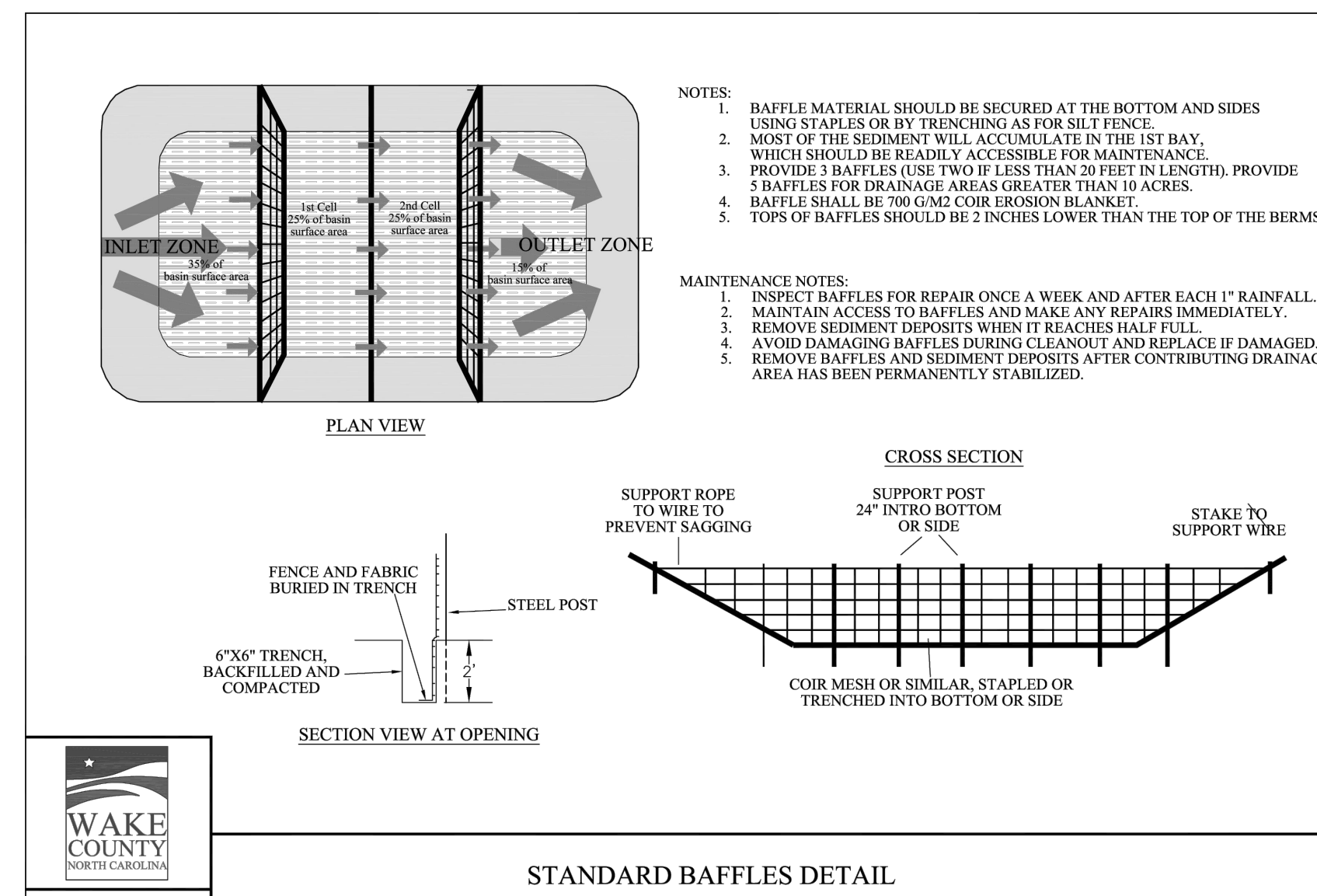
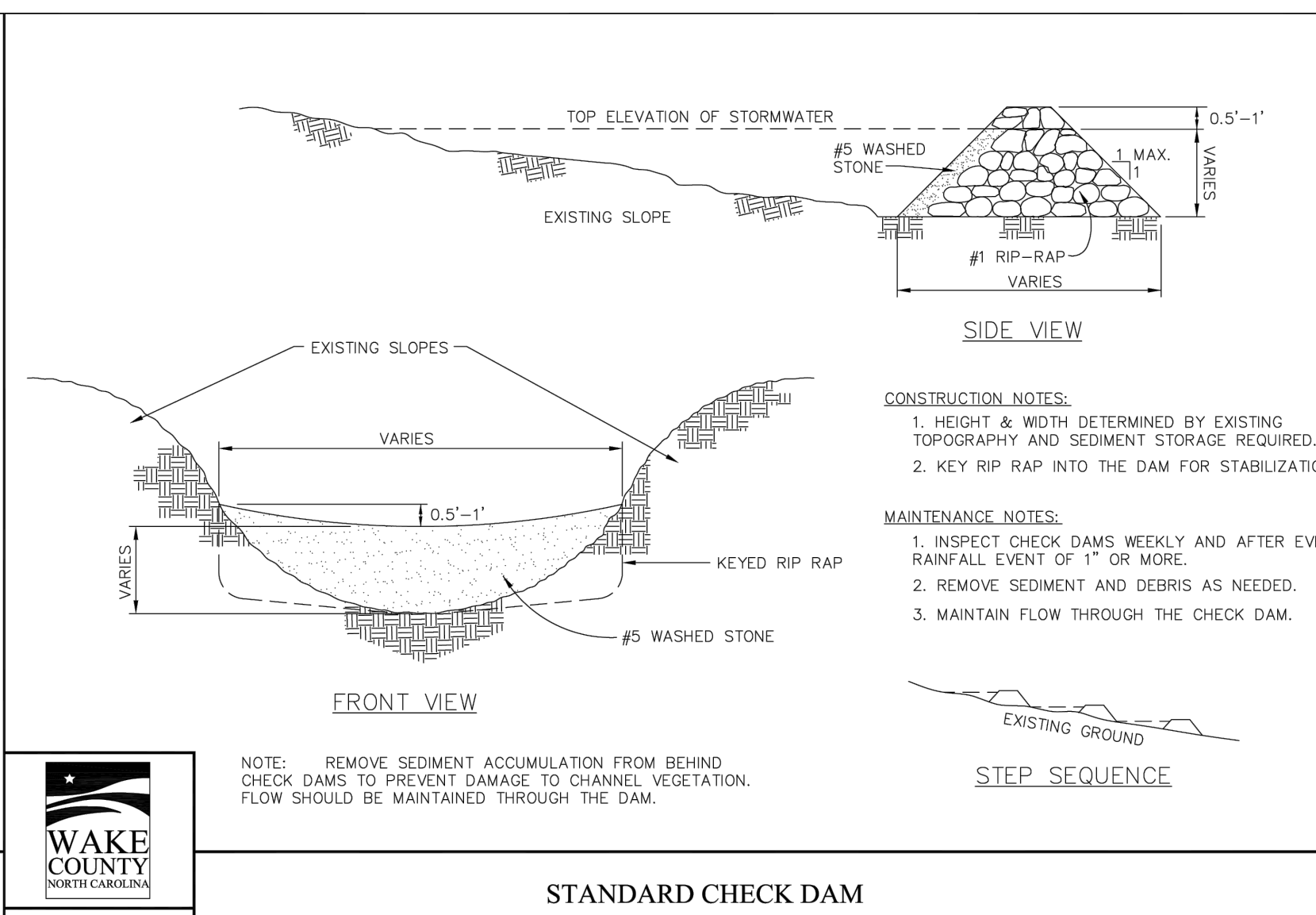
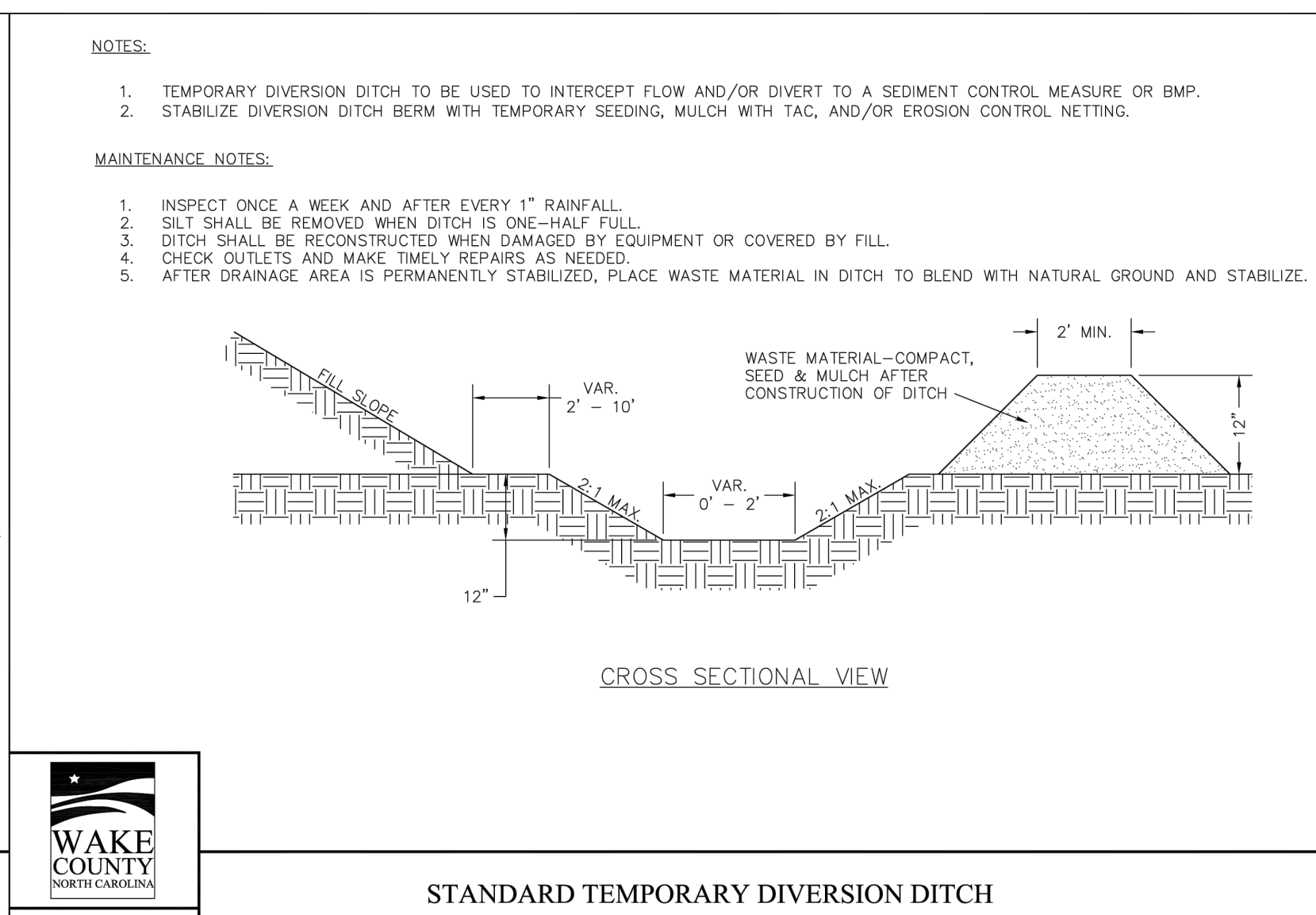
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EROSION CONTROL
DETAILS

C6.11

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS CID-2315

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ROLESVILLE, NORTH CAROLINA



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CHECKED BY EMD
DRAWN BY SME
SCALE N/A
DATE 12.01.2023

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**EROSION CONTROL
DETAILS**

C6.12



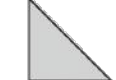

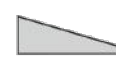
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF ROLESVILLE ENGINEERING DESIGN AND CONSTRUCTION STANDARDS CID-2315

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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.

Temporary and Permanent Groundcover*

STABILIZATION TIMEFRAMES (Effective Aug. 3, 2011)		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
 Perimeter dikes, swales, ditches, 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 or flatter	14 days	7 days for slopes greater than 50' in length.
 All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

*-For Falls Lake watershed, in disturbed areas where grading activities are incomplete, provide temporary groundcover no later than seven (7) days for slopes steeper than 3:1; ten (10) days for slopes equal to or flatter than 3:1; fourteen (14) days for areas with no slope.

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
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roiled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> 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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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



EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- 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

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number of waste containers on site to manage the quantity of waste produced.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 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.
- Cover waste containers at the end of each workday and before storm events. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow.
- Dispose waste off-site at an approved disposal facility.

PAINT AND OTHER LIQUID WASTE

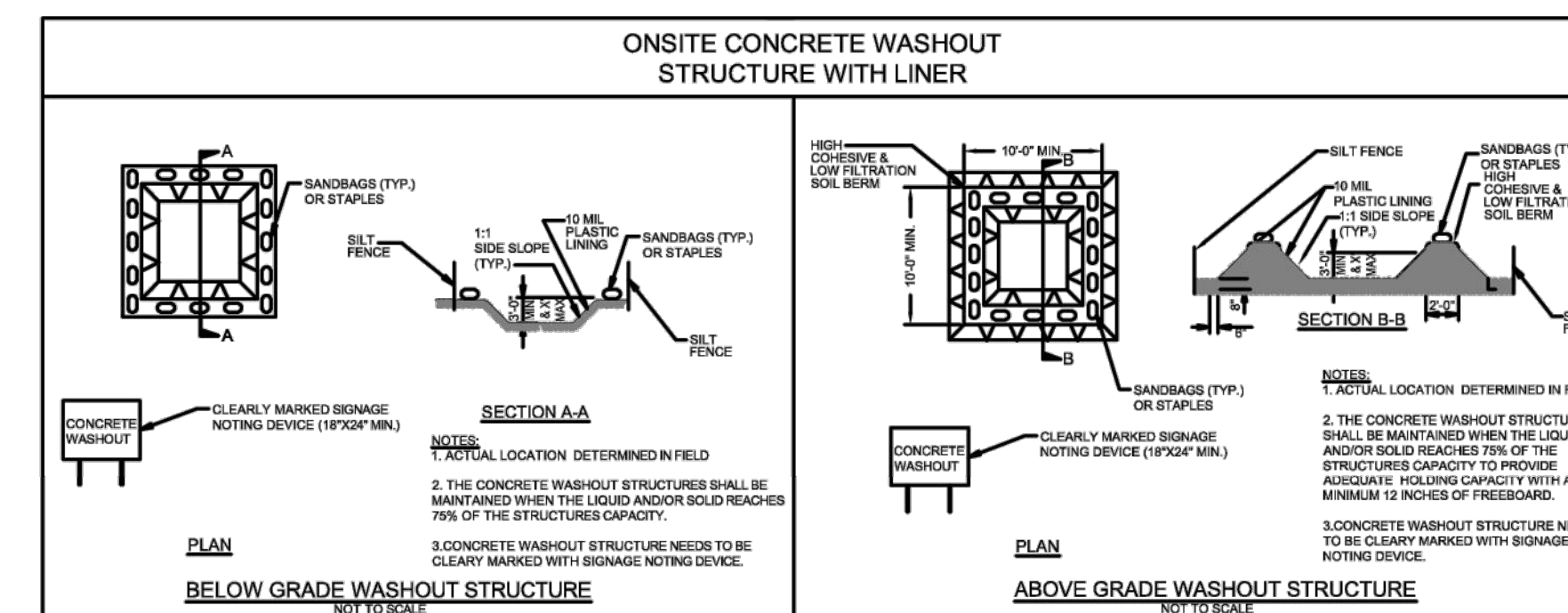
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

PORTABLE TOILETS

- 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.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- 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

- 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.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- 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

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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

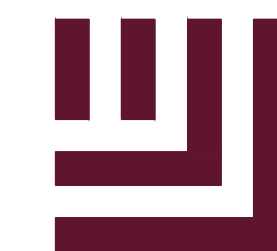
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store 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.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 03/01/19



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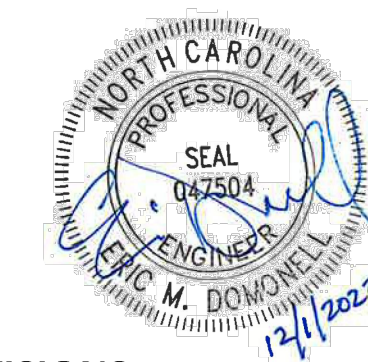
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FRAZIER FARM PARK
CONSTRUCTION DRAWINGS
PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-ECN3
CHECKED BY EMD
DRAWN BY SME
SCALE N/A
DATE 12.01.2023

SHEET

EROSION CONTROL
DETAILS

C6.13

ALL CONSTRUCTION SHALL BE IN
ACCORDANCE WITH THE CURRENT TOWN
OF ROLESVILLE ENGINEERING DESIGN AND
CONSTRUCTION STANDARDS CID-2315

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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).
- (a) 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.
- (b) Anticipated bypasses and unanticipated bypasses.
- (c) 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 Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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)]	<ul style="list-style-type: none"> • 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)]	<ul style="list-style-type: none"> • 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)]	<ul style="list-style-type: none"> • 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 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 documented in the manner described:

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

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency 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 30 days. 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.
- (c) All data used to complete the Notice of Intent and older 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 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 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.

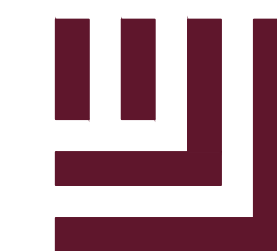
Inspect	Frequency (during normal business hours)	Inspection records must include [40 CFR 122.41]:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is 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. Corrective actions taken, and 7. Date of 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. Actions taken to correct/prevent sedimentation, and 7. Date of 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. Date of 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. Evidence and actions taken to reduce sediment contributions, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.

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



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 03/01/19



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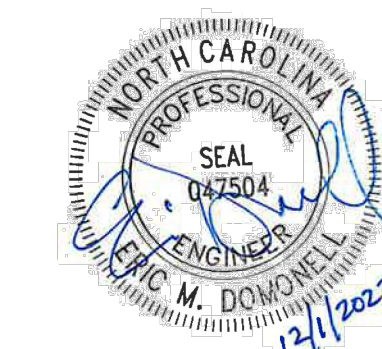
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FRAZIER FARM PARK
CONSTRUCTION DRAWINGS
PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-RW1
CHECKED BY EMD
DRAWN BY SME
SCALE 1"=40'
DATE 12.01.2023

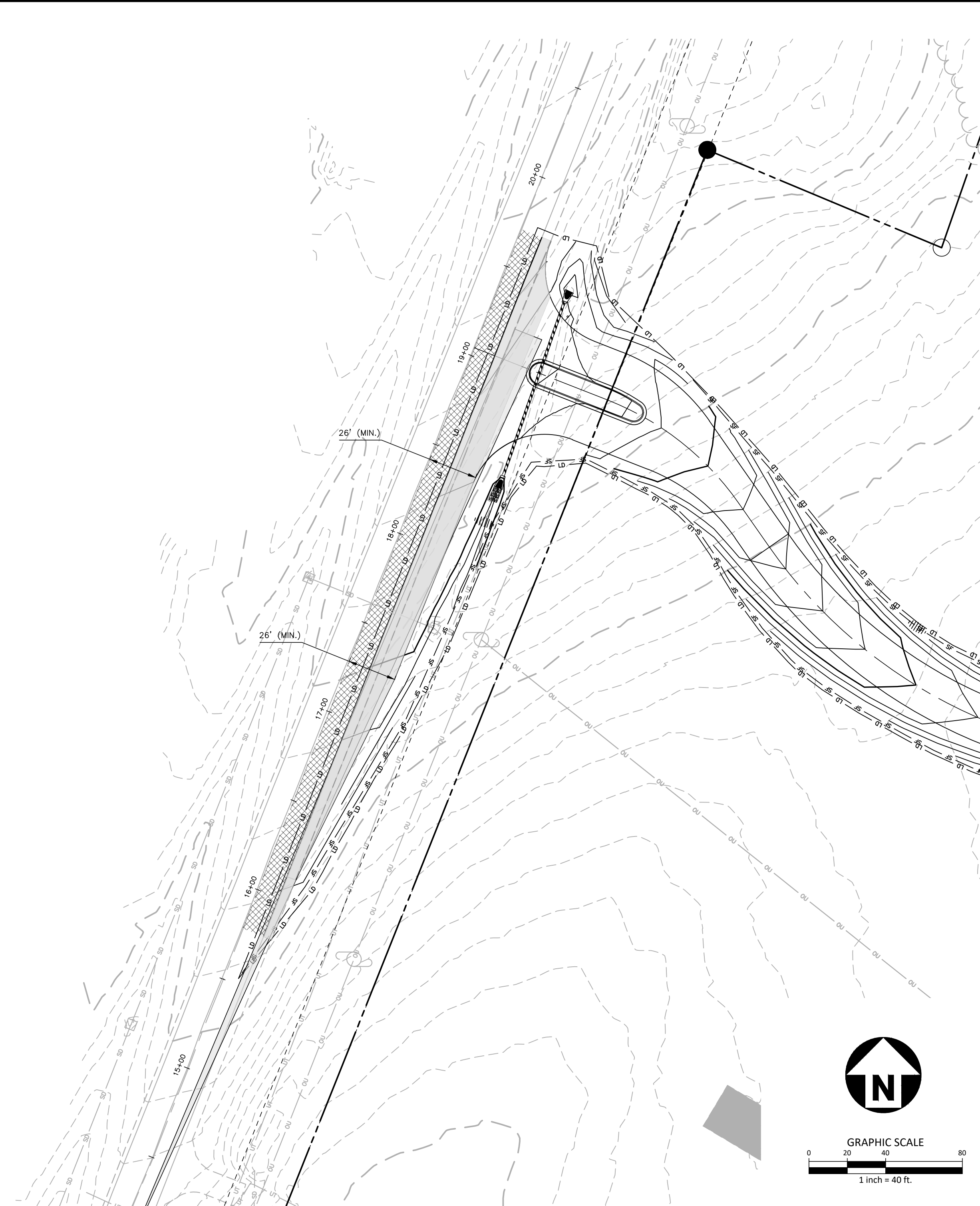
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**LOUISBURG RD
WIDENING PLAN**

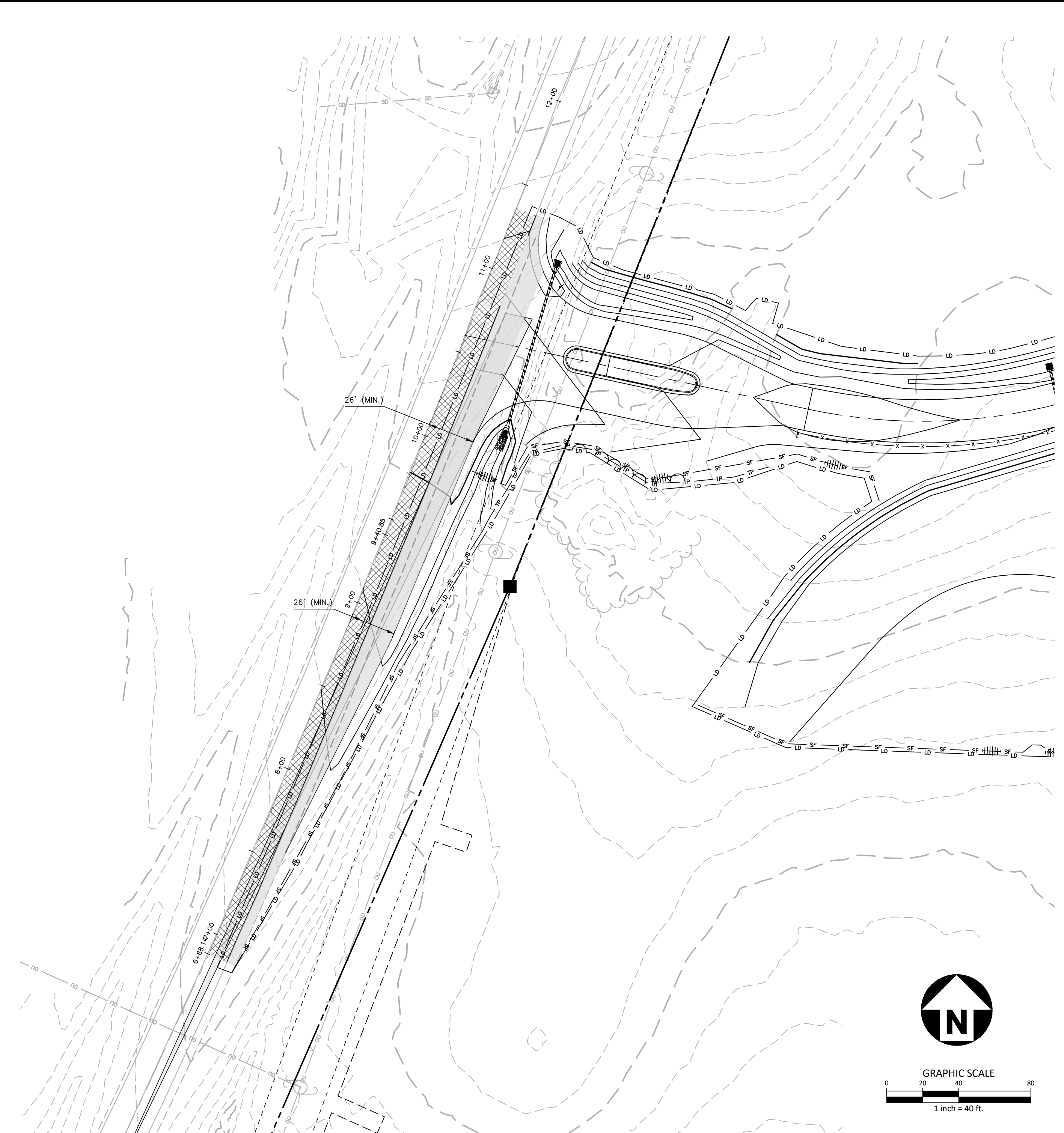
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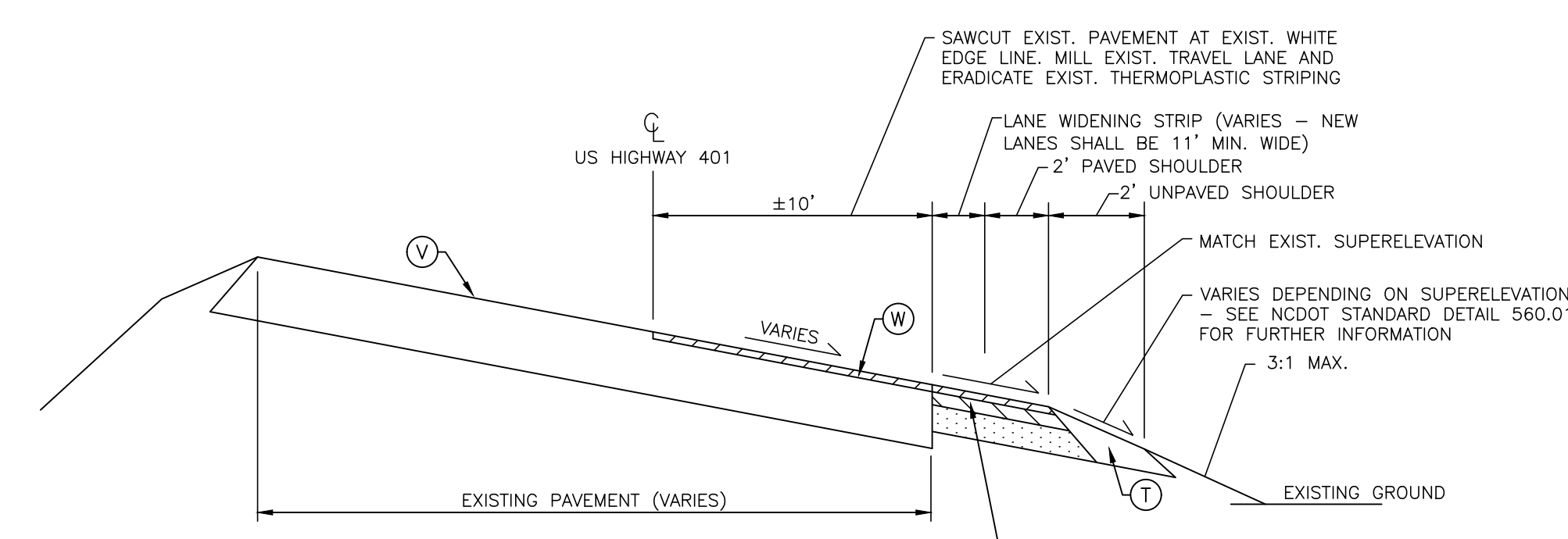
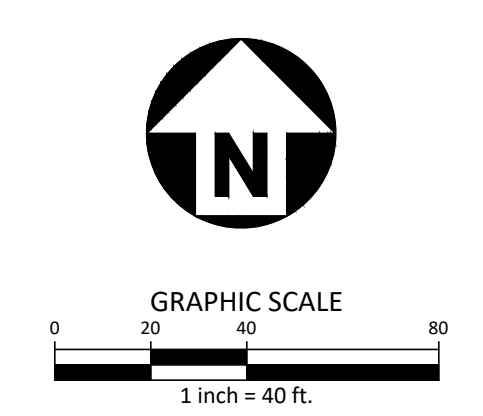
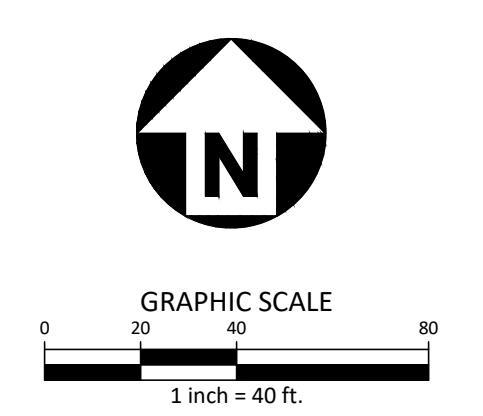
PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION



PARK ENTRANCE "B"



PARK ENTRANCE "A"



**TYPICAL SECTION NO. 1
US HIGHWAY 401 / LOUISBURG RD
STA. 6+88 TO 11+36
STA. 15+78 TO 19+71**

- Ⓢ SEE SHEET C8.00 FOR PAVEMENT SECTION
- Ⓣ COMPACTED EARTH
- Ⓦ WEDGING/OVERLAY (MIN. 1 1/2" S9.5C)
- Ⓥ EXISTING ROADWAY - SUPERELEVATION GRADE AND DIRECTION VARY

PAVEMENT MARKING LEGEND

- LANE LINES/MARKINGS**
- T1 16" WHITE LINE, RAILROAD CROSSBAR
 - T2 24" WHITE STOPBAR
 - T3 24" WHITE CROSSWALK LINE (HIGH VISIBILITY)
 - T4 4" WHITE RUMBLE STRIP
 - T5 4" YELLOW RUMBLE STRIP
 - T6 6" WHITE EDGE LINE
 - T7 6" YELLOW EDGE LINE
 - T8 4" WHITE MINISKIP (2' - 6' SP.)
 - T9 4" YELLOW MINISKIP (2' - 6' SP.)
 - T10 12" WHITE MINISKIP (3' - 3' SP.) (ROUNDBABOUTS ONLY)
 - T11 6" WHITE MINISKIP (2' - 6' SP.)
 - T12 6" YELLOW MINISKIP (2' - 6' SP.)
 - T13 8" WHITE MINISKIP (3' - 9' SP.)
 - T14 12" WHITE MINISKIP (3' - 9' SP.)
 - T15 6" YELLOW SINGLE CENTER
 - T16 6" YELLOW DOUBLE CENTER
 - T17 8" WHITE MINISKIP (3' - 3' SP.) (ROUNDBABOUTS ONLY)
 - TA 4" WHITE EDGE LINE
 - TB 4" YELLOW EDGE LINE
 - TC 4" WHITE SKIP (10' - 30' SP.)
 - TD 4" WHITE MINISKIP (3' - 9' SP.)
 - TE 4" WHITE SOLID LANE LINE
 - TF 4" YELLOW SKIP (10' - 30' SP.)
 - TH 4" YELLOW SINGLE CENTER
 - TI 4" YELLOW DOUBLE CENTER
 - TJ 6" WHITE SKIP (10' - 30' SP.)
 - TK 6" WHITE MINISKIP (3' - 9' SP.)
 - TL 6" WHITE SOLID LANE LINE
 - TM 6" YELLOW SKIP (10' - 30' SP.)
 - TN 8" WHITE GORELINE
 - TO 8" WHITE DIAGONAL
 - TP 8" YELLOW DIAGONAL
 - TQ 8" WHITE CROSSWALK LINE
 - TR 8" WHITE SOLID LANE LINE
 - TS 12" WHITE GORELINE
 - TT 12" WHITE SOLID LANE LINE
 - TU 12" WHITE DIAGONAL (45MPH OR GREATER)
 - TV 12" YELLOW DIAGONAL (45MPH OR GREATER)

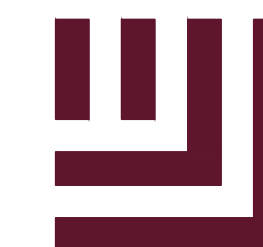
- ARROWS/CHARACTERS**
- UA LEFT TURN ARROW
 - UB RIGHT TURN ARROW
 - UC STRAIGHT ARROW
 - UD COMBINATION STRAIGHT/LEFT TURN ARROW
 - UE COMBINATION STRAIGHT/RIGHT TURN ARROW
 - UF COMBINATION LEFT/RIGHT ARROW
 - UG COMBINATION LEFT/STRAIGHT/RIGHT ARROW
 - UH HANDICAP PARKING
 - UI ALPHANUMERIC CHARACTER
 - UJ BICYCLE SYMBOL
 - UK BICYCLE STRAIGHT ARROW
 - UL BICYCLE CHARACTER
 - UM 12" YIELD LINE TRIANGLE
 - UN 24" YIELD LINE TRIANGLE
 - UO BICYCLE LEFT ARROW
 - UP MERGE ARROW
 - UQ RAMP ARROW SYMBOL
 - UR SHARROW
 - US BICYCLE LOOP DETECTOR
 - UT U-TURN ARROW
 - UU FISH-HOOK STRAIGHT ARROW
 - UV FISH-HOOK STRAIGHT/LEFT ARROW
 - UW FISH-HOOK STRAIGHT/RIGHT ARROW
 - UX FISH-HOOK LEFT/RIGHT ARROW
 - UY FISH-HOOK LEFT/STRAIGHT/RIGHT ARROW
 - UZ FISH-HOOK W/CIRCLE STRAIGHT ARROW
 - VA FISH-HOOK W/CIRCLE LEFT ARROW
 - VB FISH-HOOK W/CIRCLE STRAIGHT/LEFT ARROW
 - VC FISH-HOOK W/CIRCLE LEFT/STRAIGHT/RIGHT ARROW

ROAD WIDENING LEGEND

- NEW FULL DEPTH PAVEMENT
- MILLING LIMITS

NOTE:
ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ARE TO BE PLACED PER NCDOT STANDARDS (REFERENCE NCDOT DETAILS (1205.01-1205.12)

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FRAZIER FARM PARK
CONSTRUCTION DRAWINGS
PHASE 1A
11624 LOUISBURG ROAD
ROLESVILLE, NORTH CAROLINA



REVISIONS

NO. DATE

PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 2020110039-PH1-RW2
CHECKED BY EMD
DRAWN BY SME
SCALE H:1"=10' / V:1"=2"
DATE 12.01.2023

SHEET

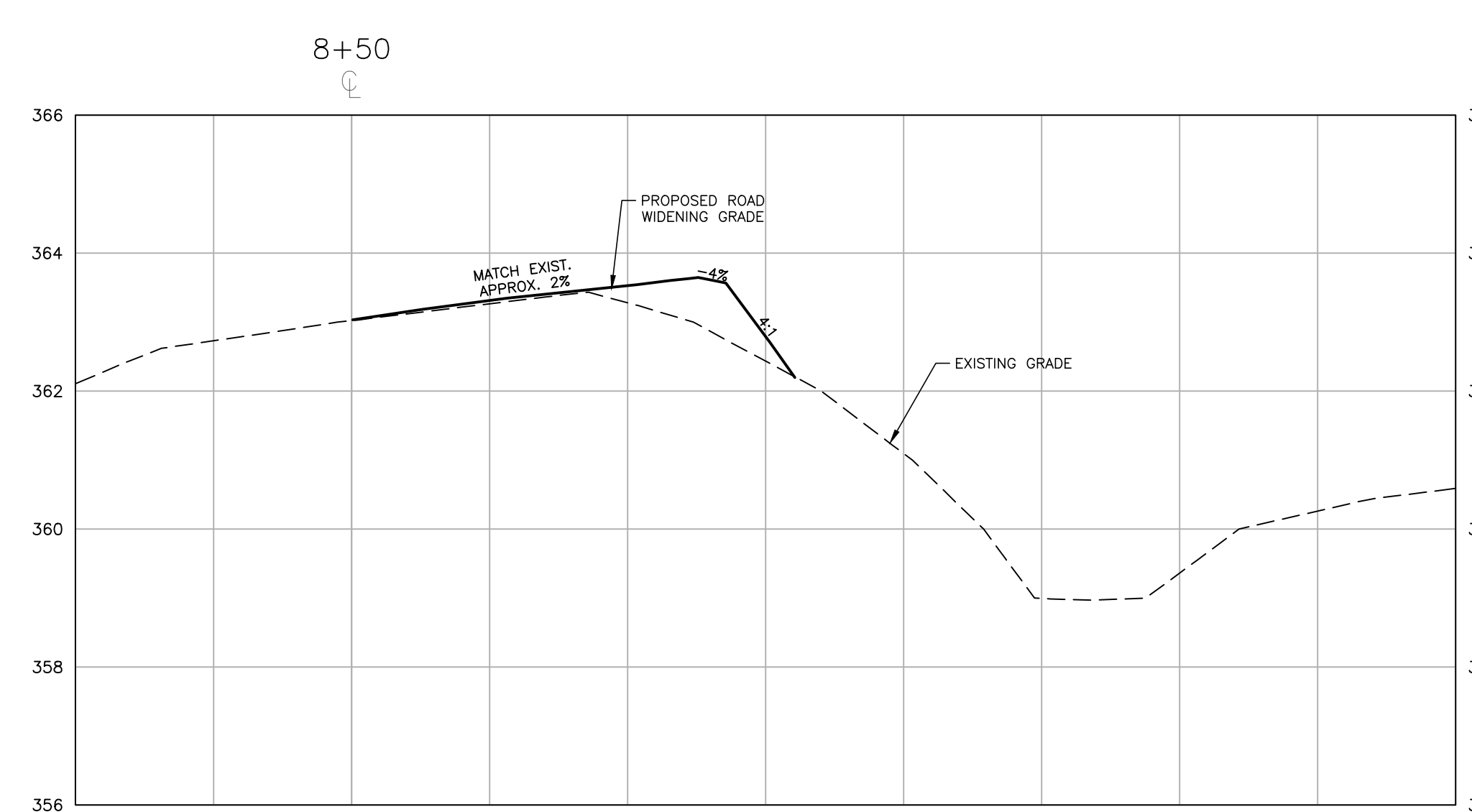
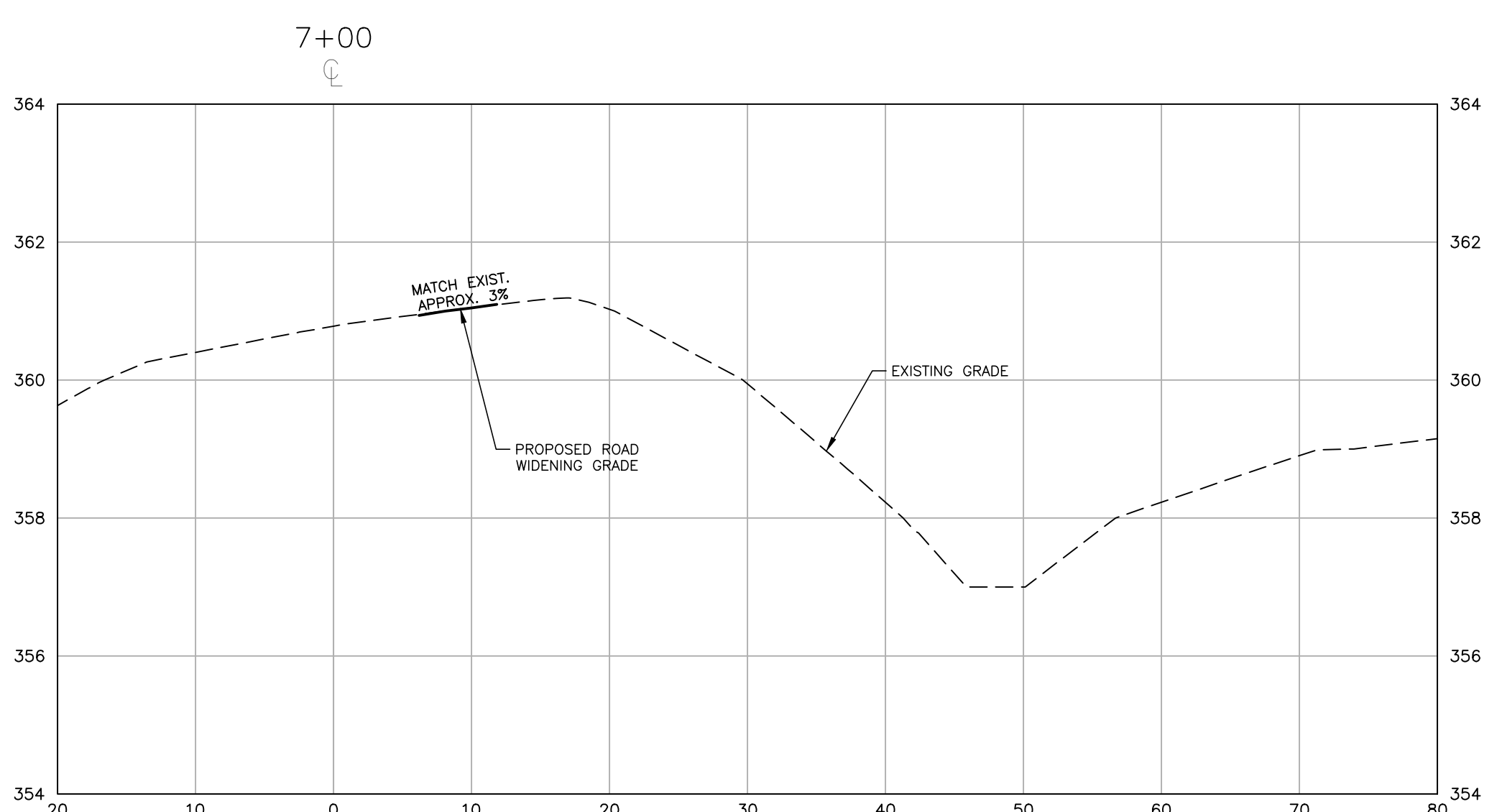
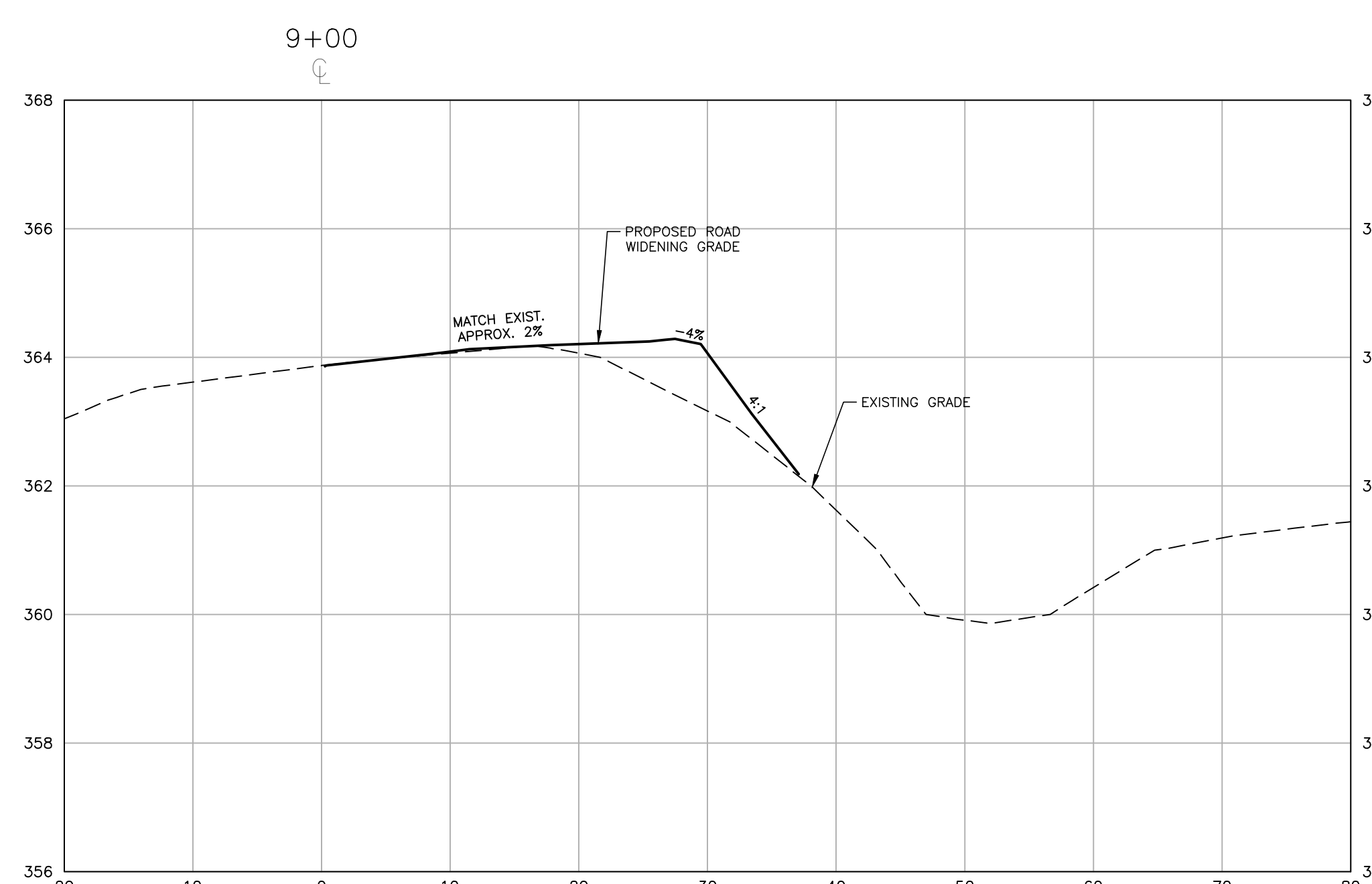
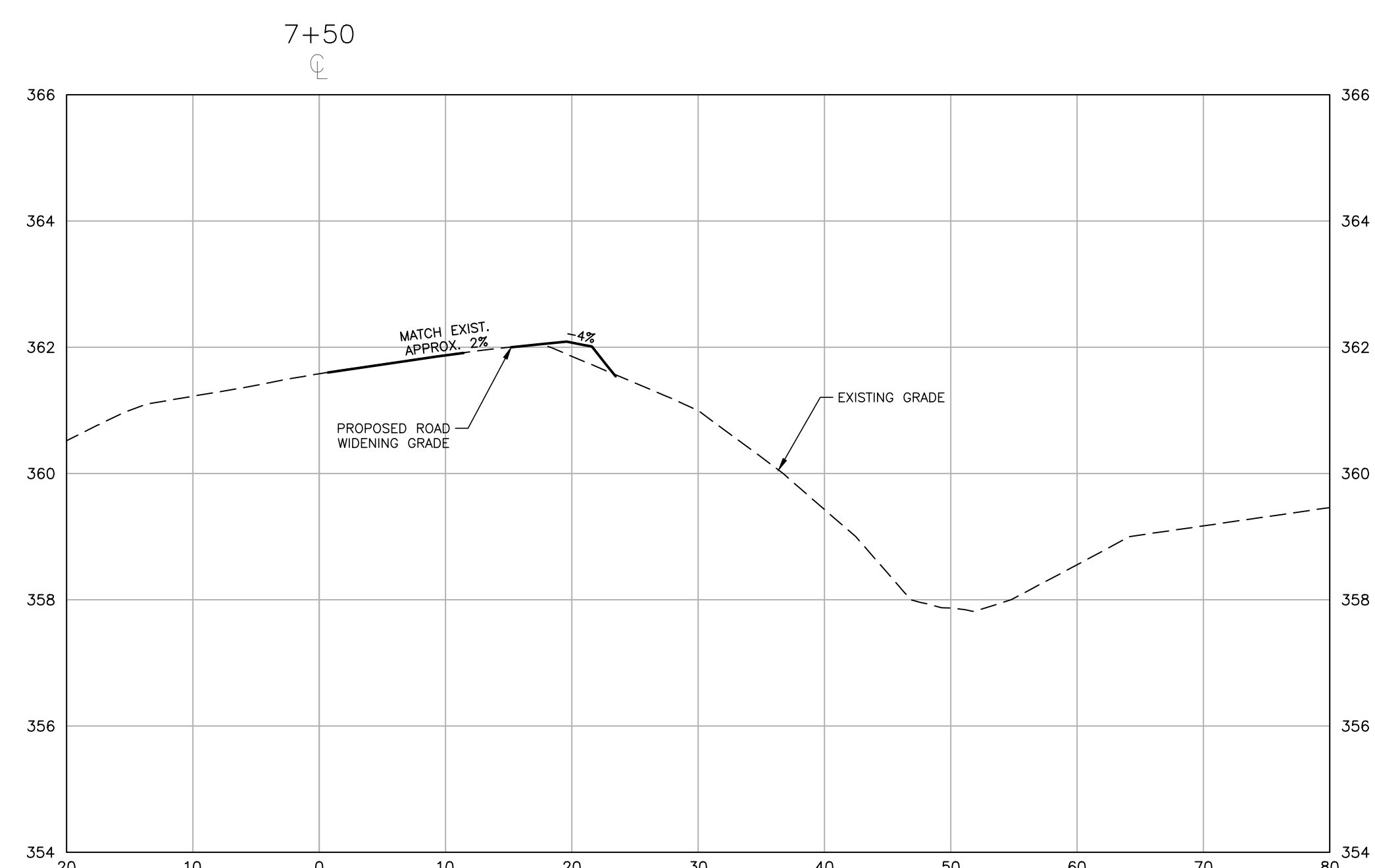
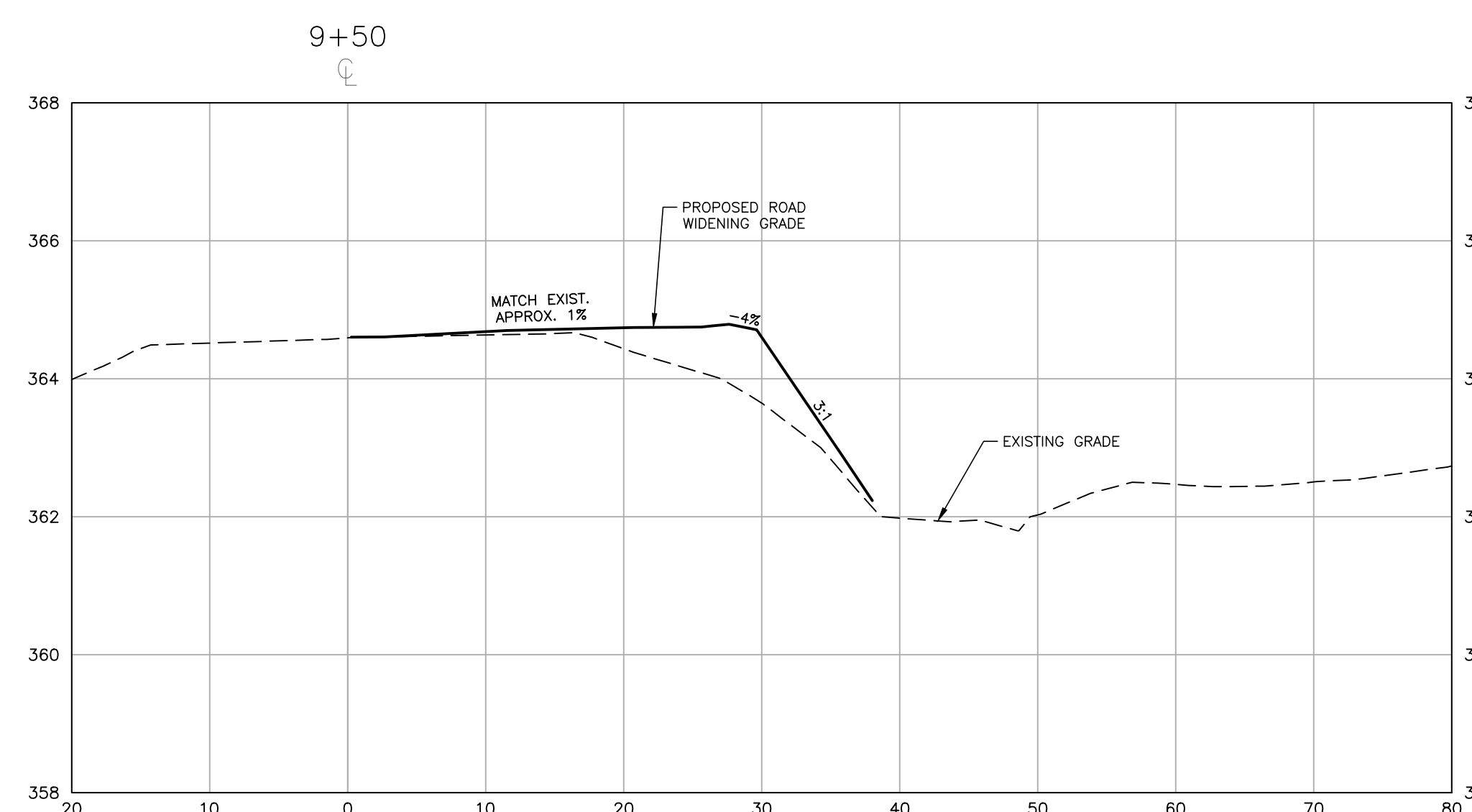
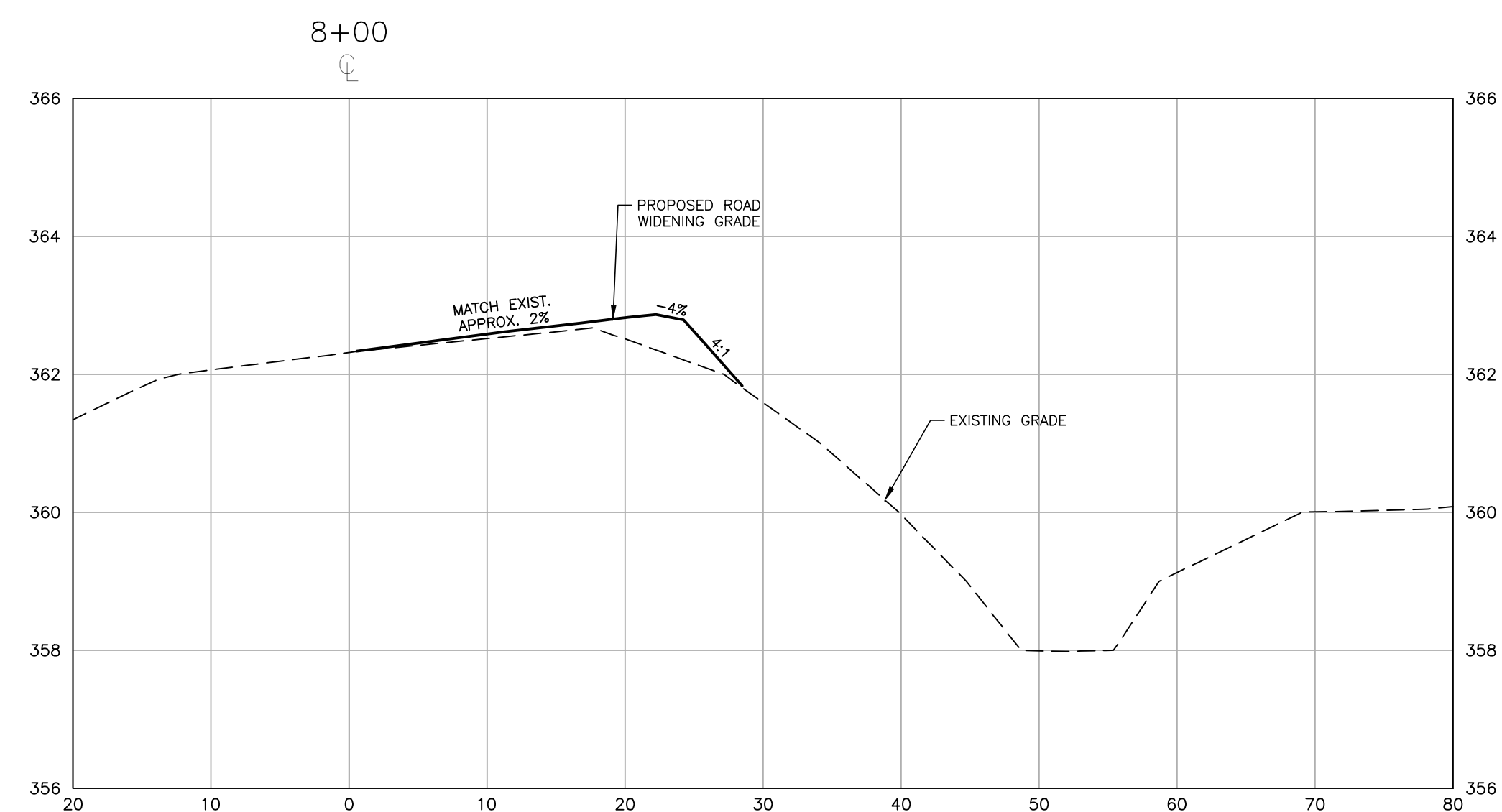
**LOUISBURG RD
WIDENING
CROSS SECTIONS**

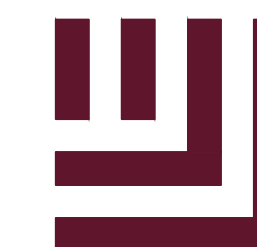
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CID-23-5

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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FRAZIER FARM PARK
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REVISIONS

NO. DATE

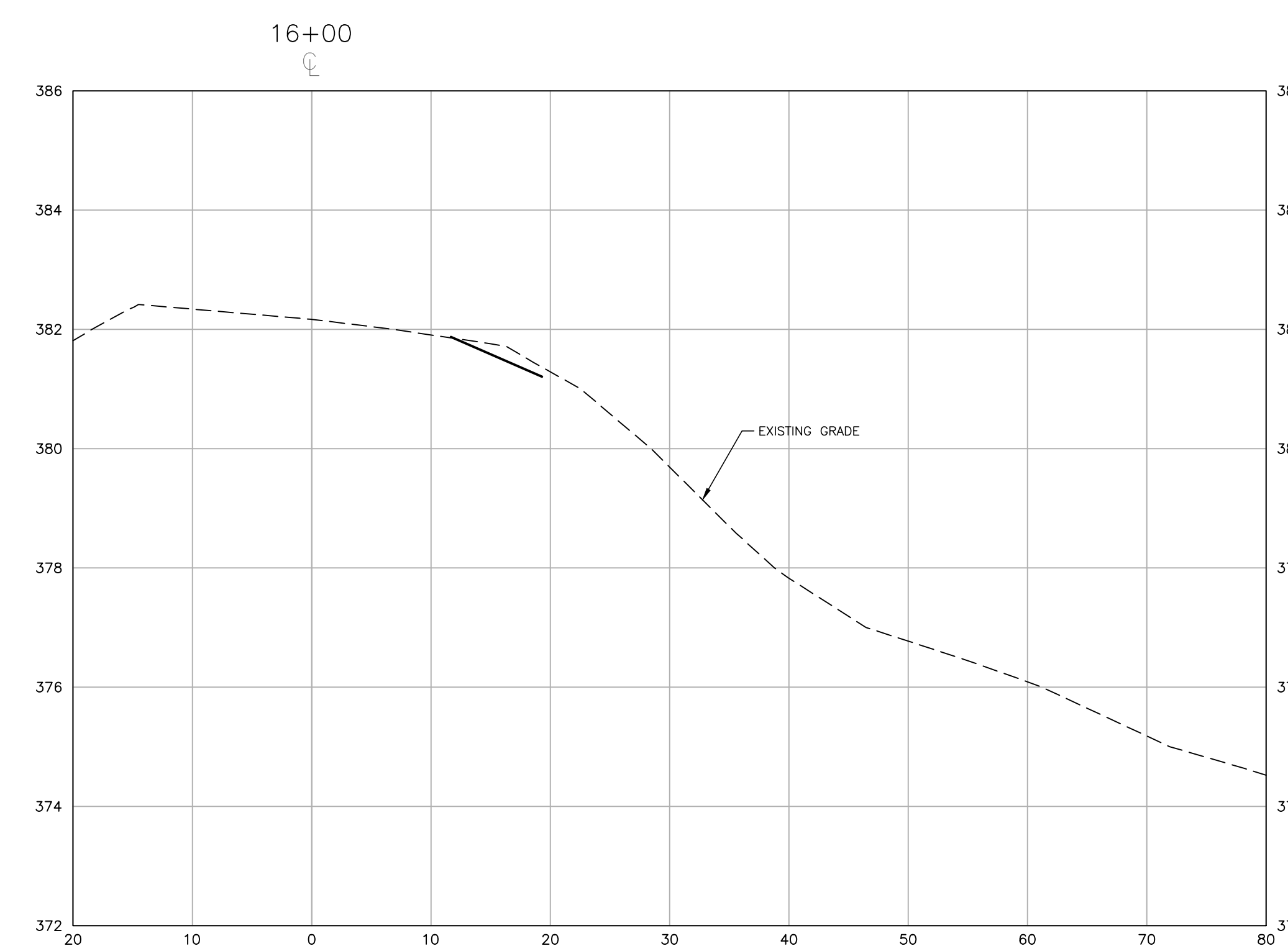
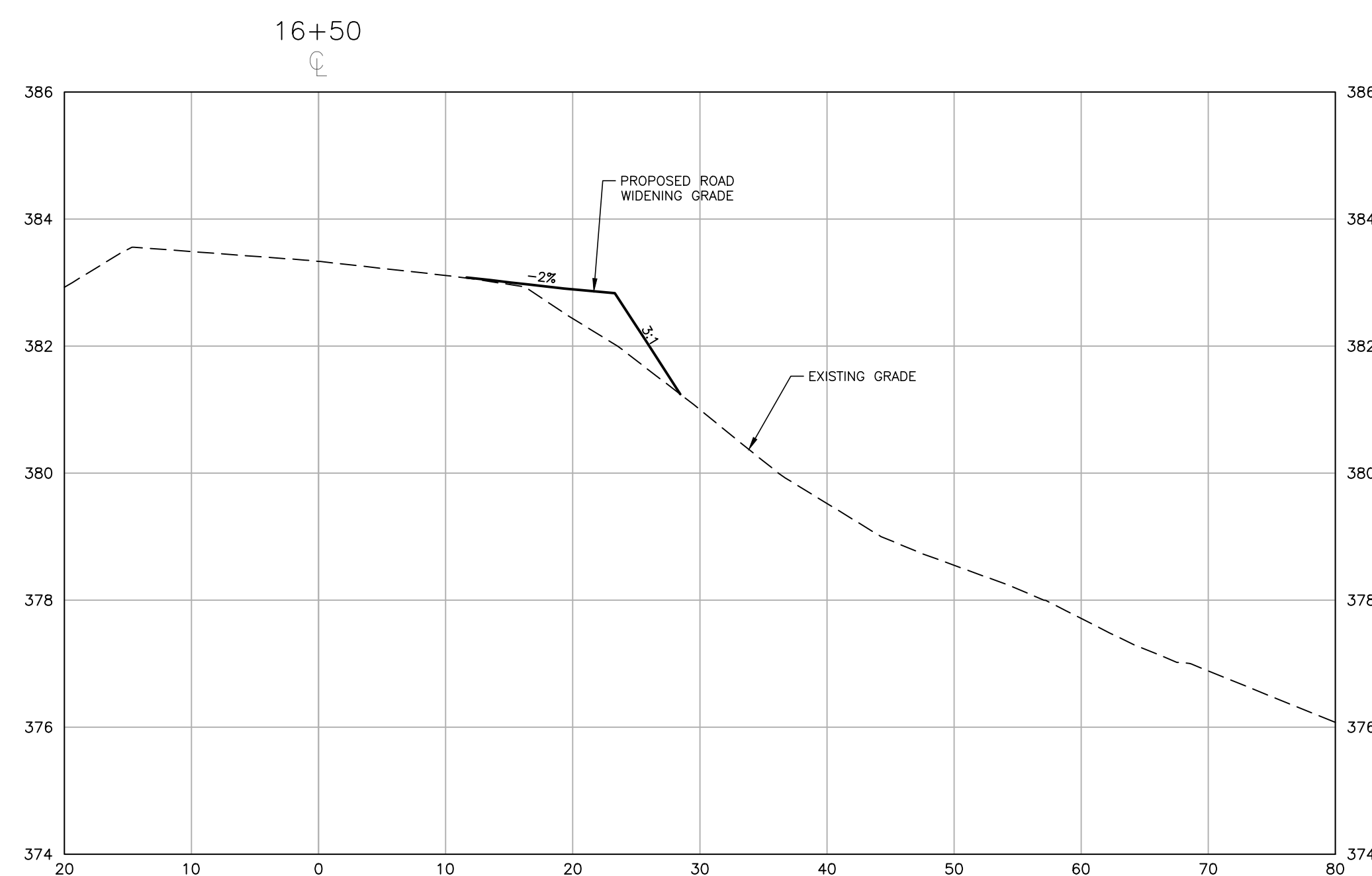
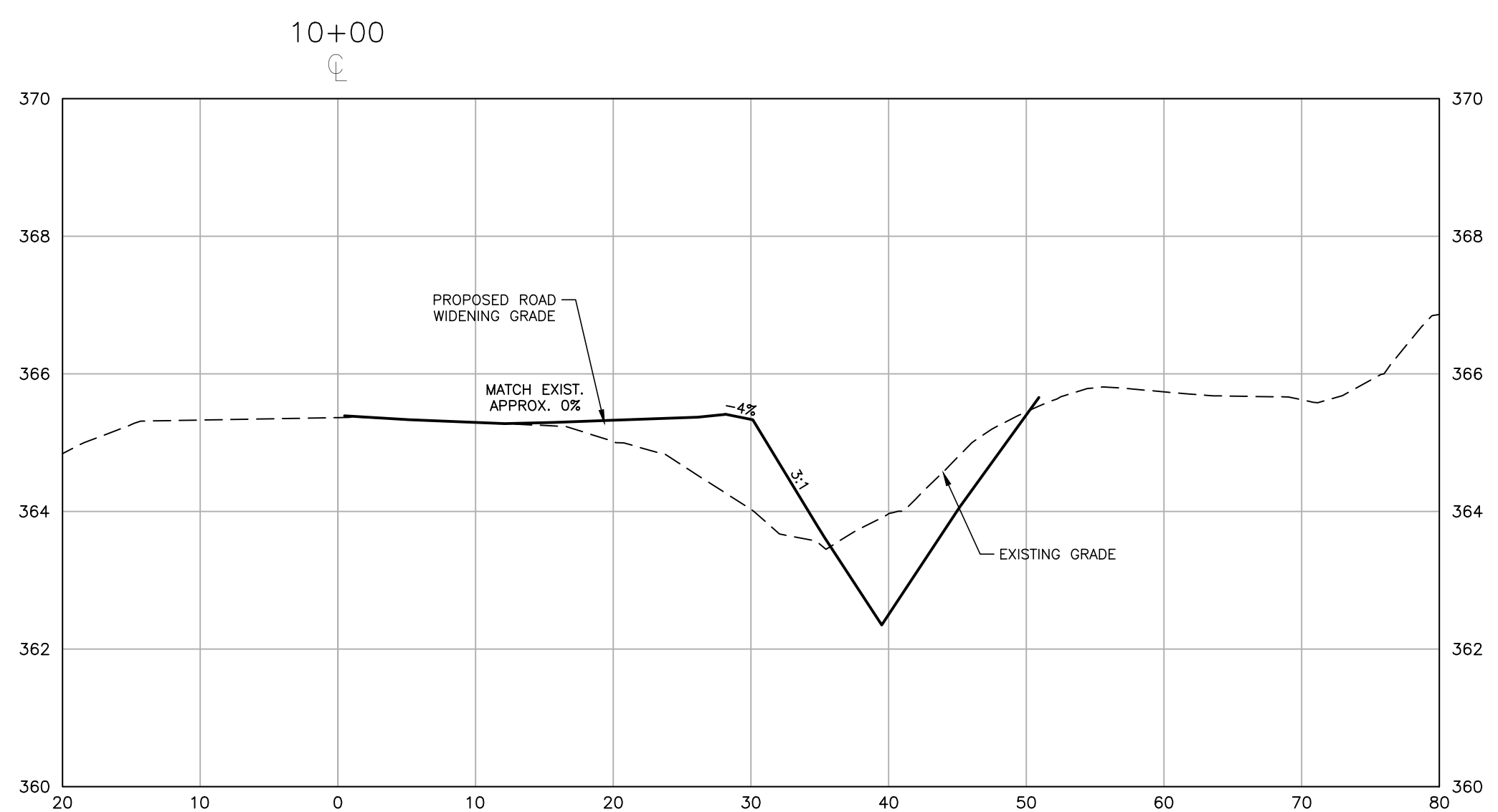
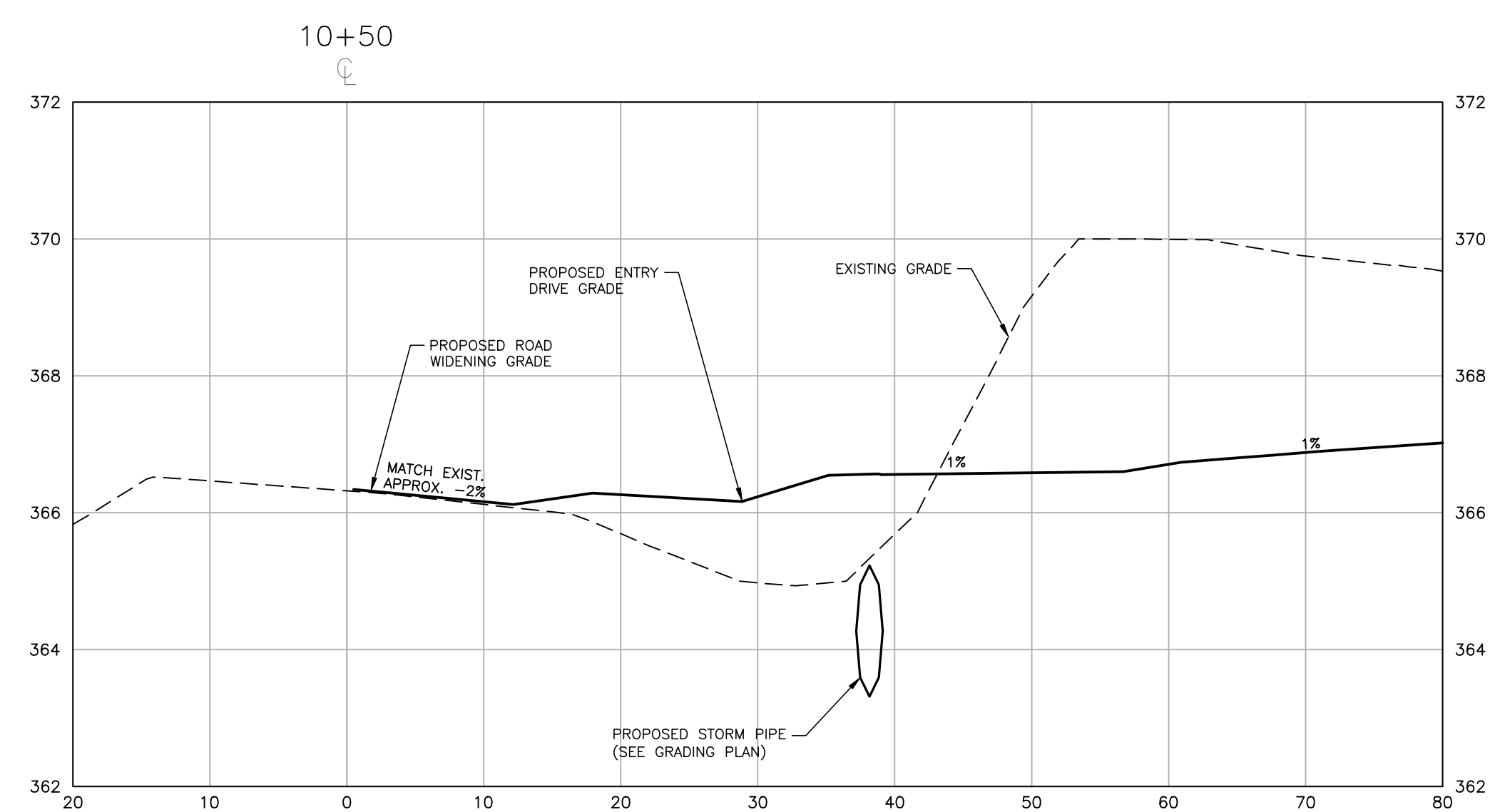
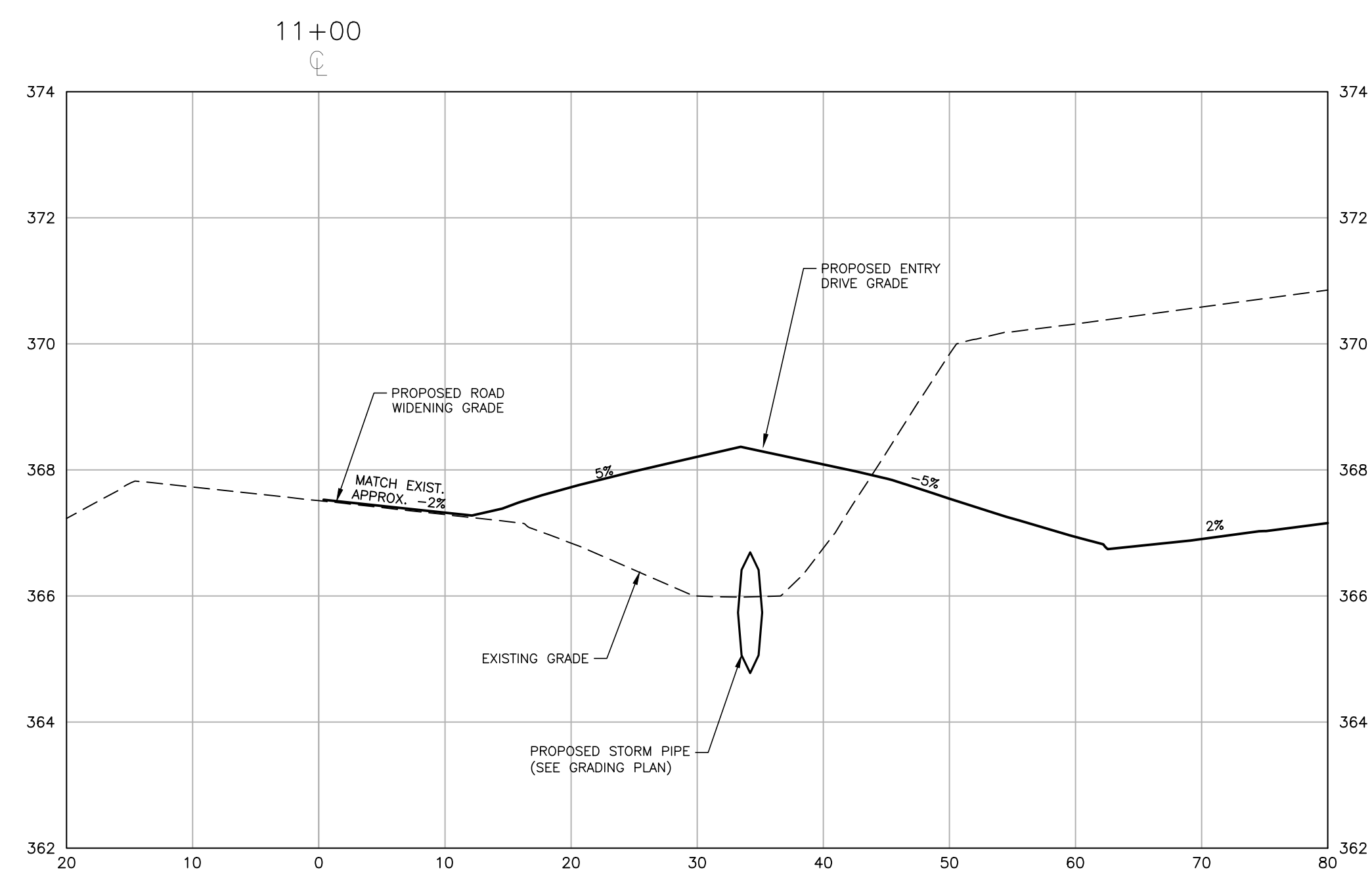
PLAN INFORMATION

PROJECT NO. 202011039
FILENAME 202011039-PH1-RW2
CHECKED BY EMD
DRAWN BY SME
SCALE H:1"=10' / V:1"=2'
DATE 12.01.2023

SHEET

**LOUISBURG RD
WIDENING
CROSS SECTIONS**

C7.02



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DATE 12.01.2023

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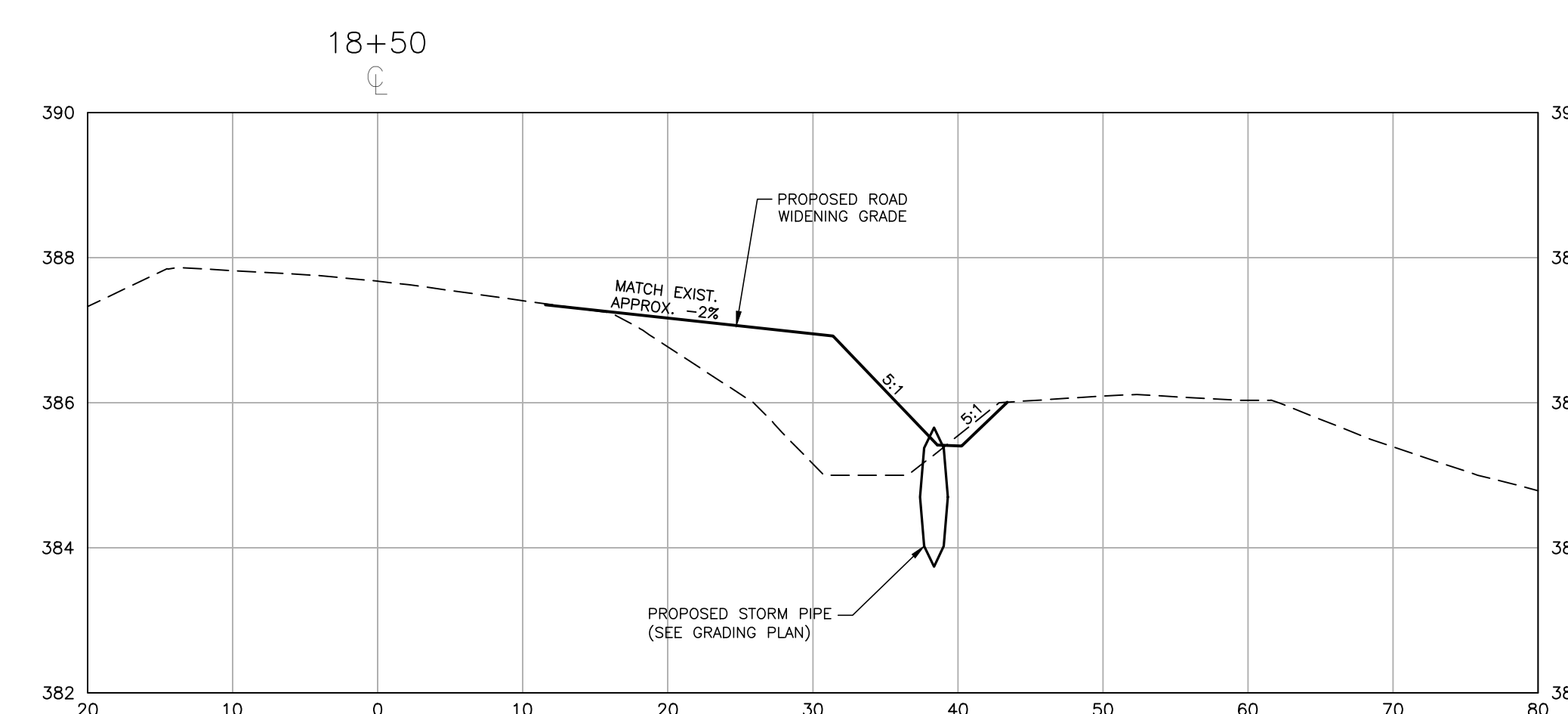
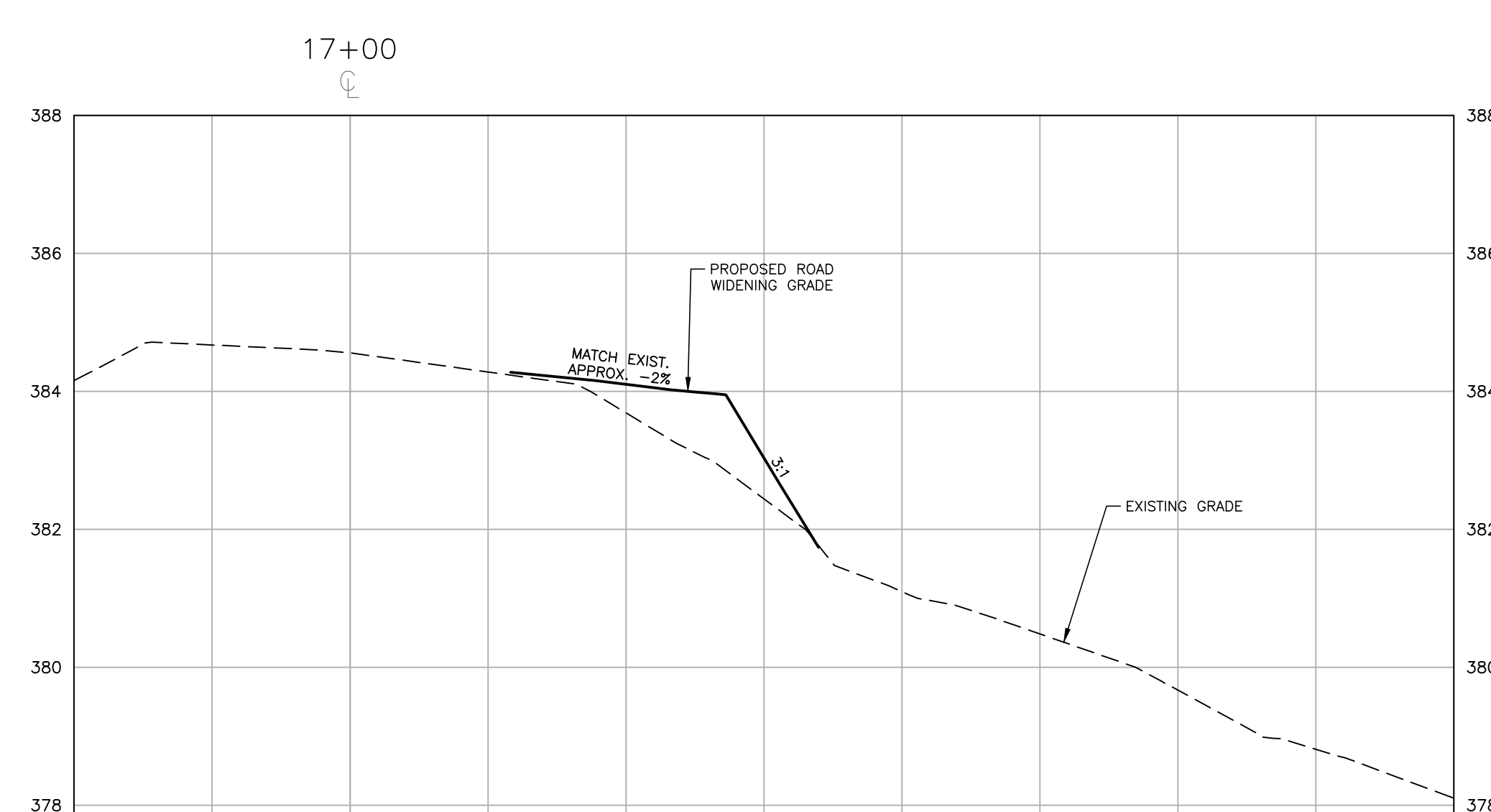
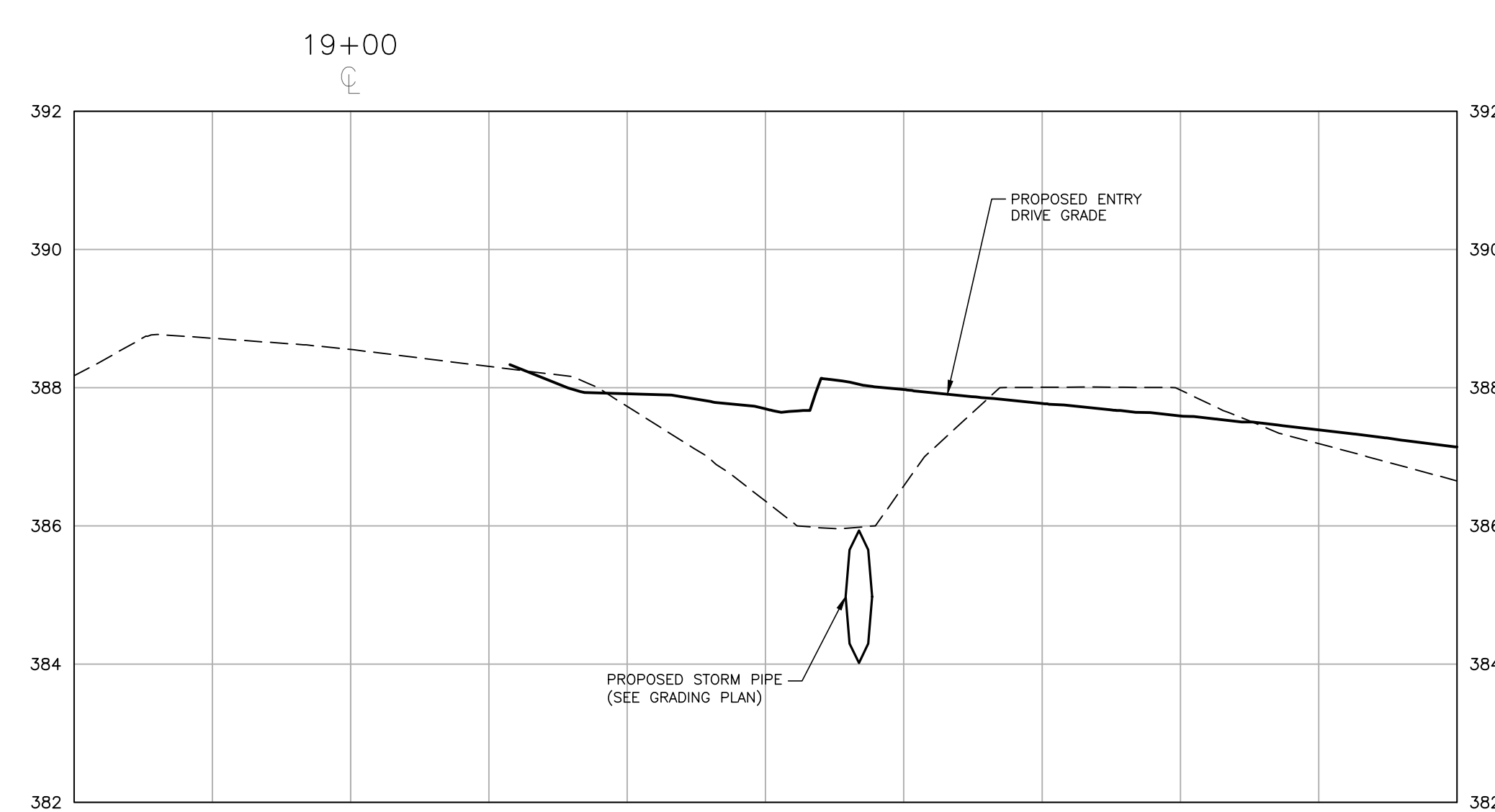
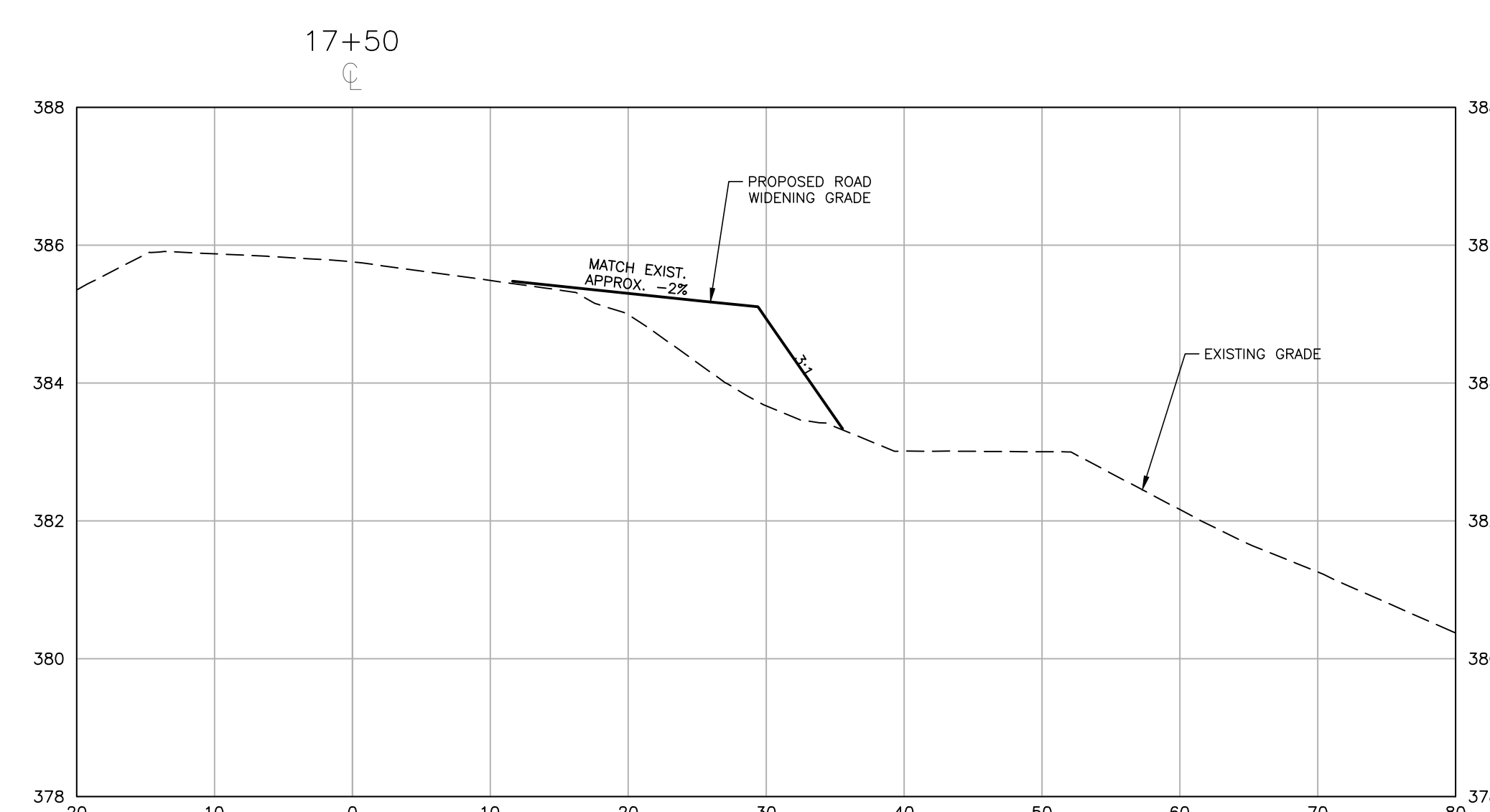
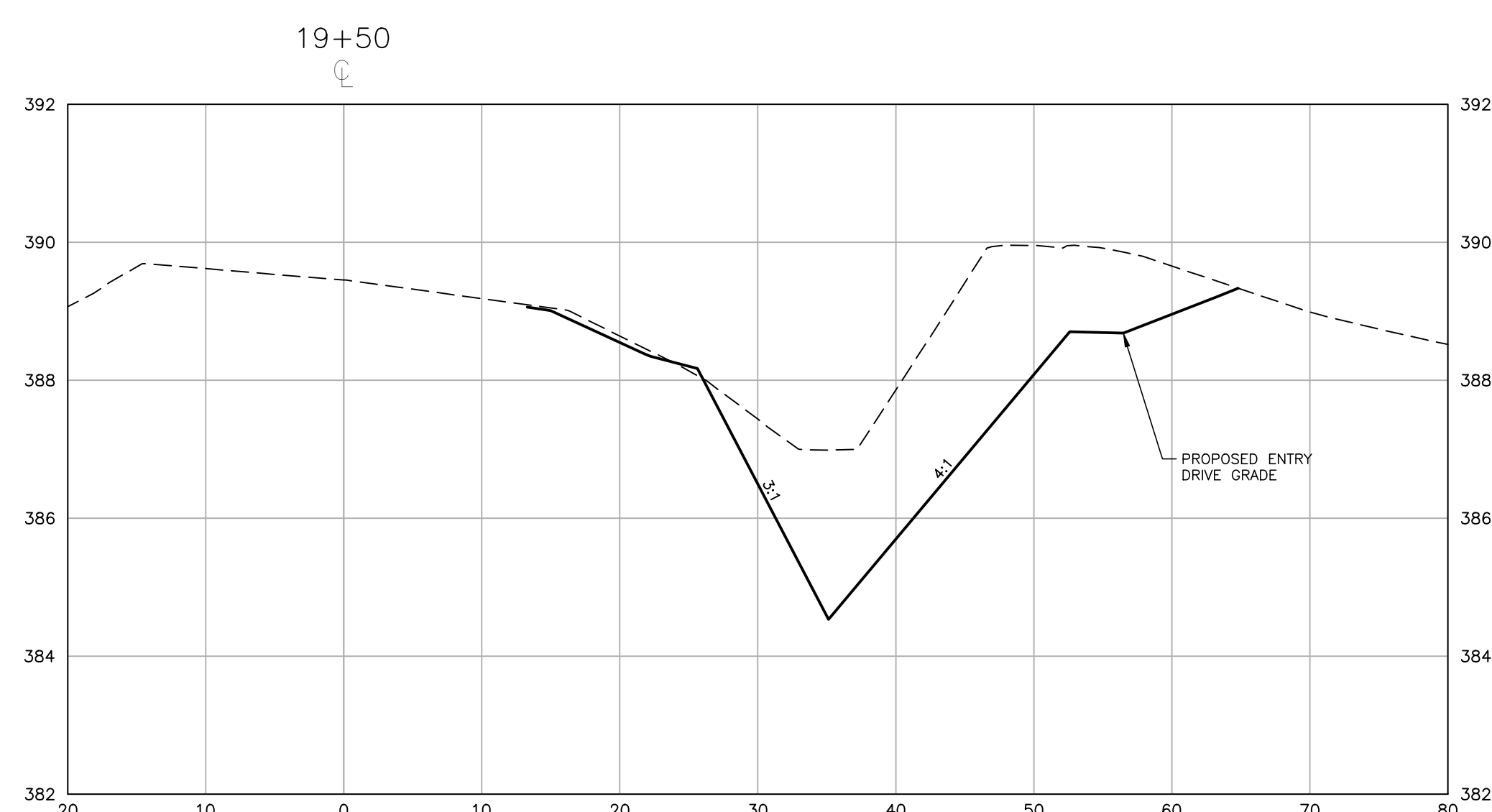
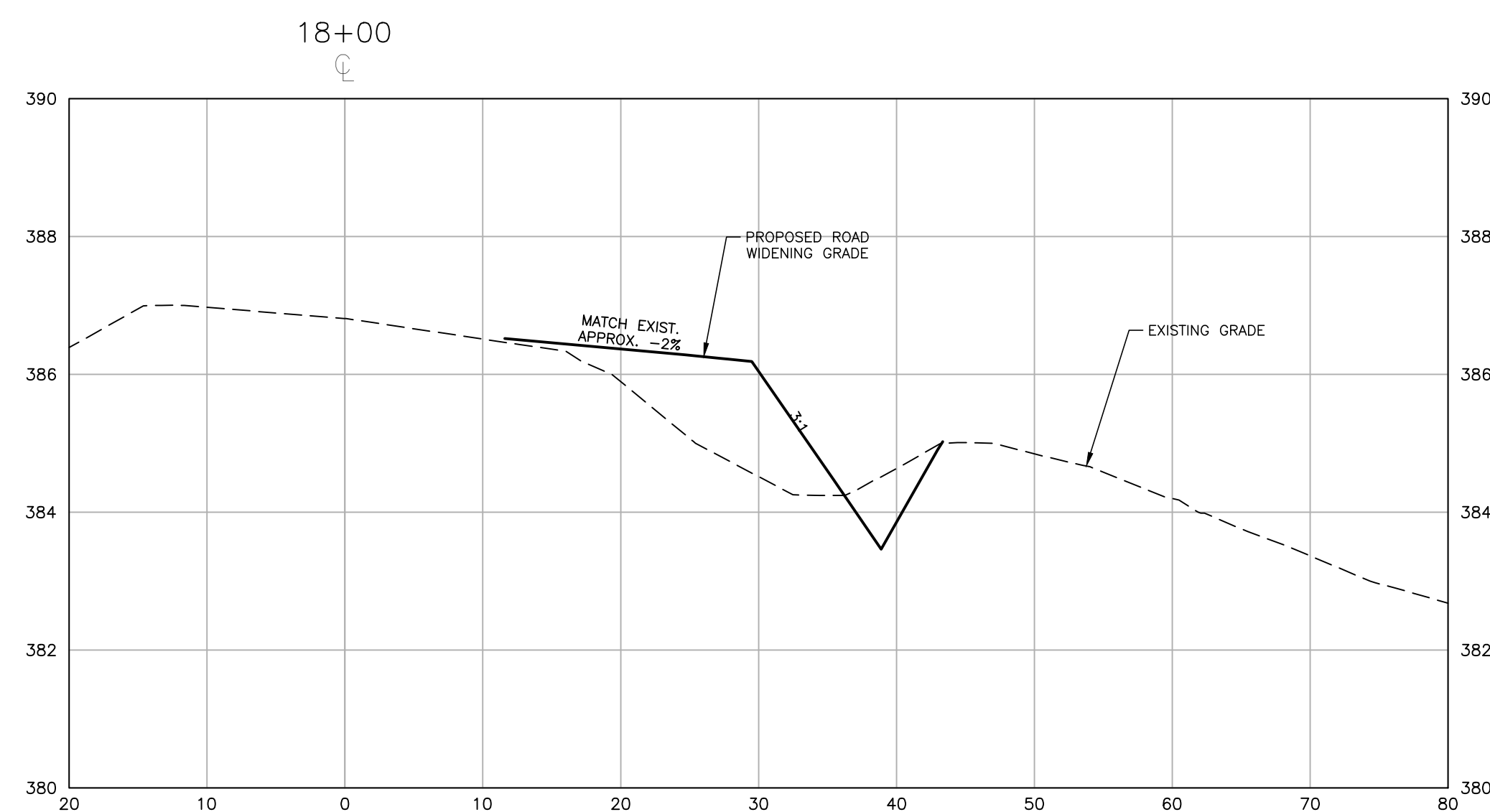
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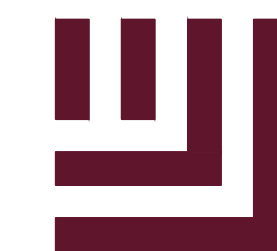
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PLAN INFORMATION

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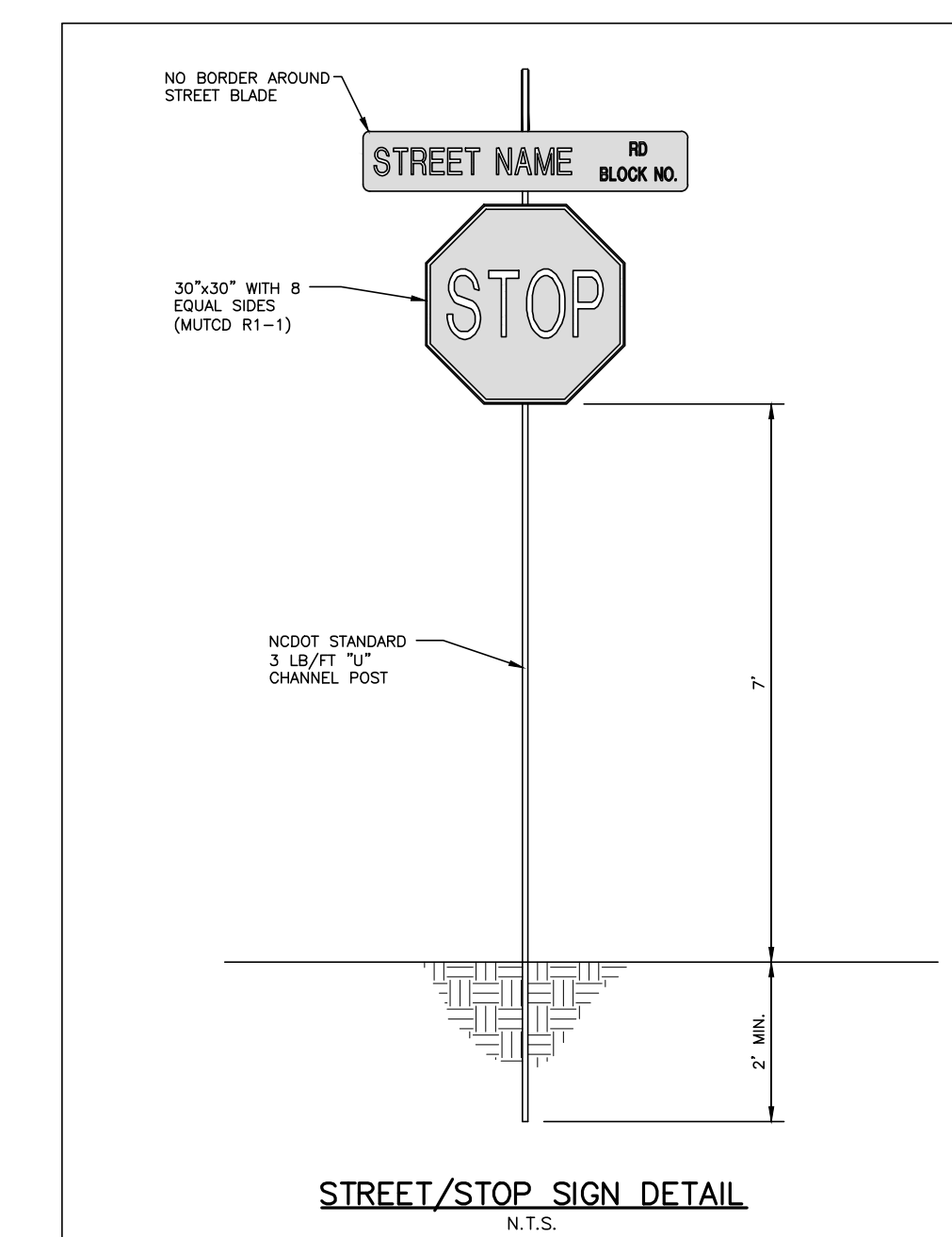
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SITE DETAILS

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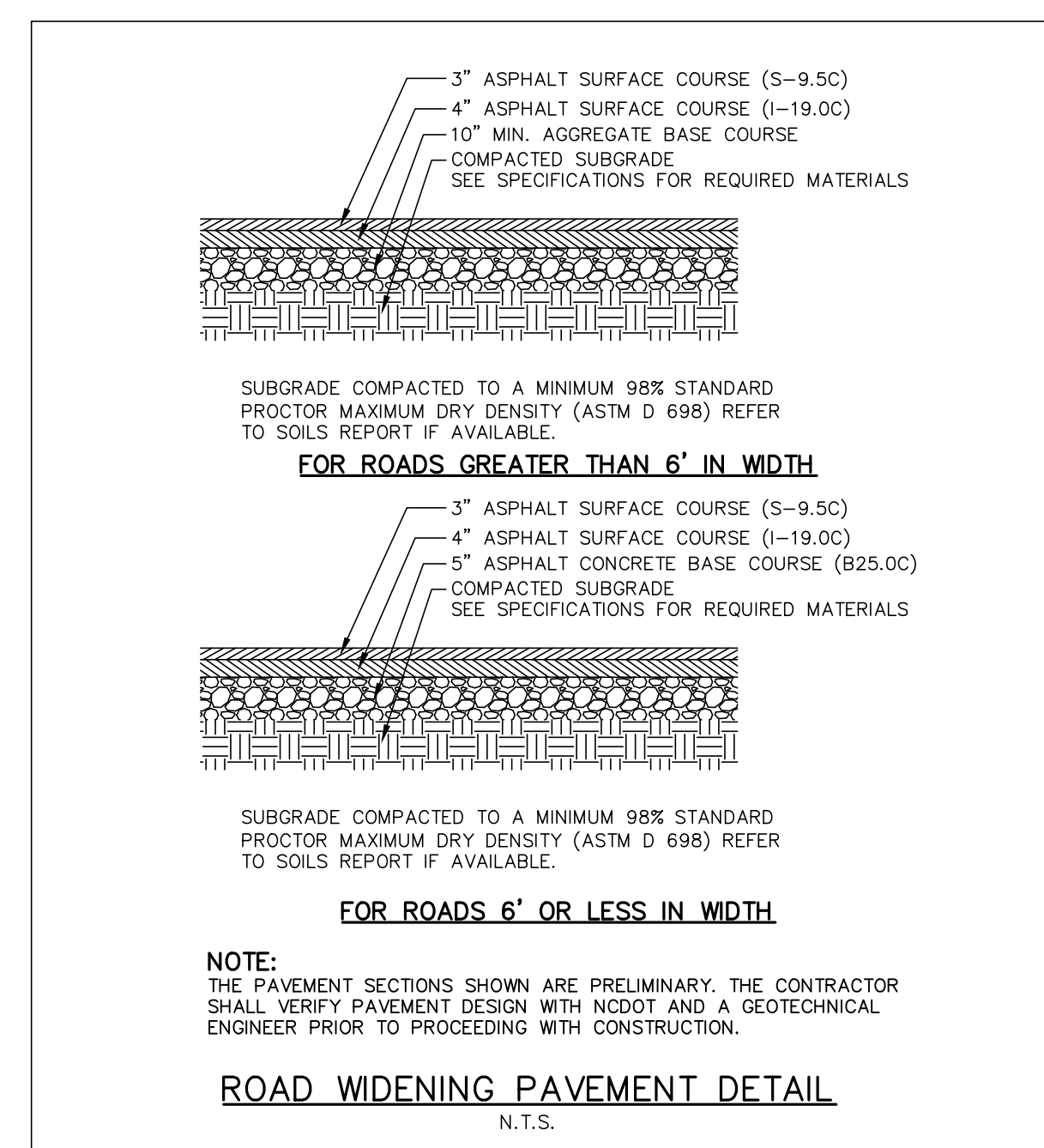
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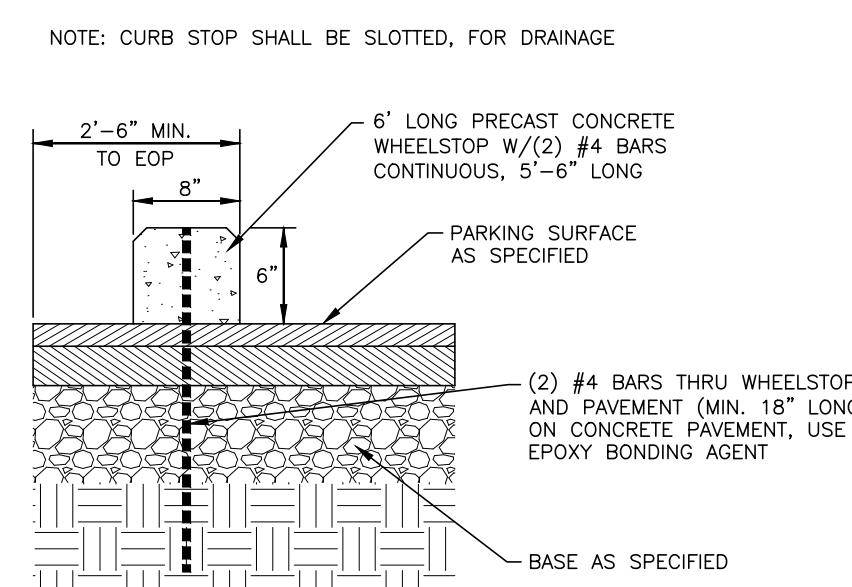
03 STOP AND STREET SIGN DETAIL

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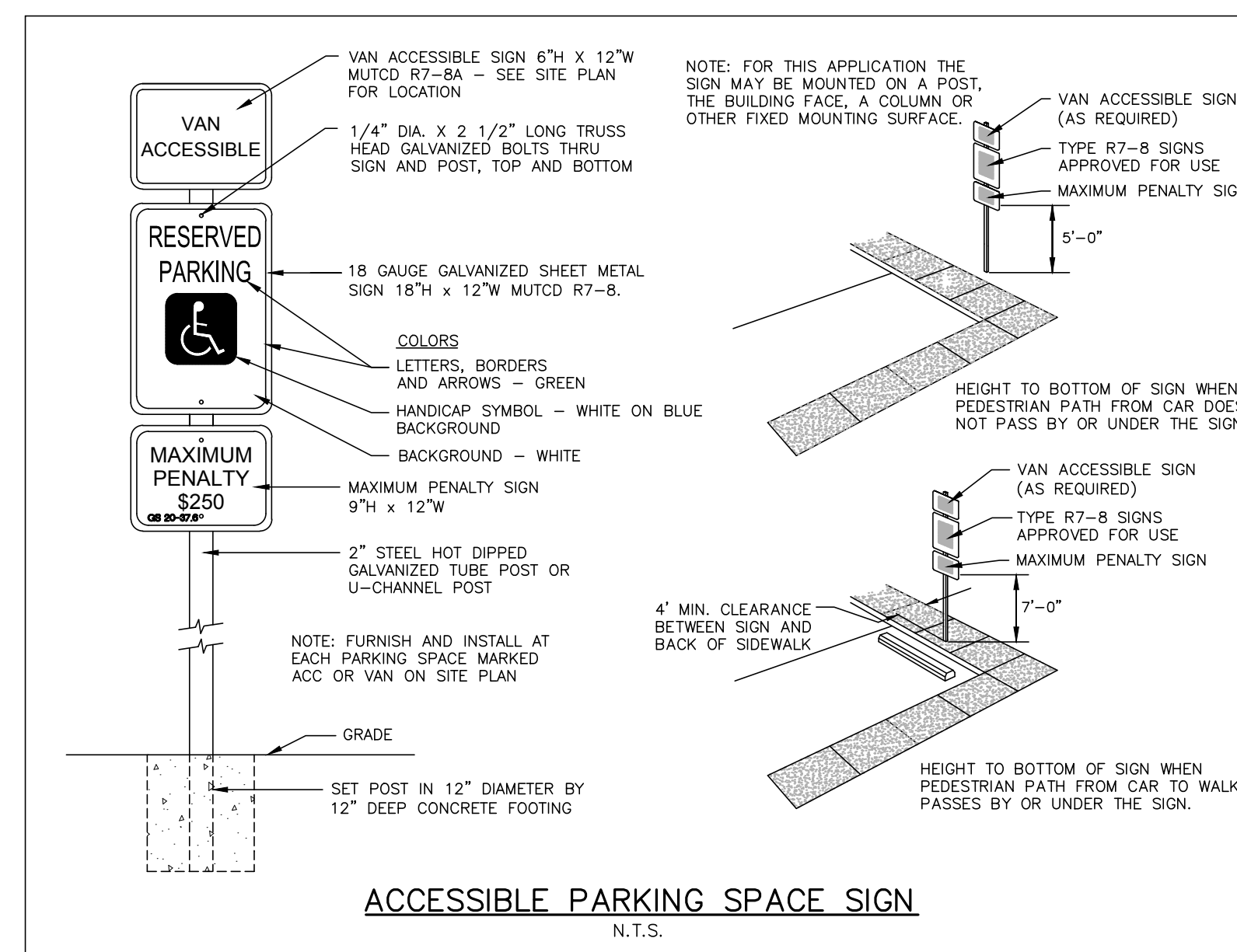
02 US-401 PAVEMENT SECTION

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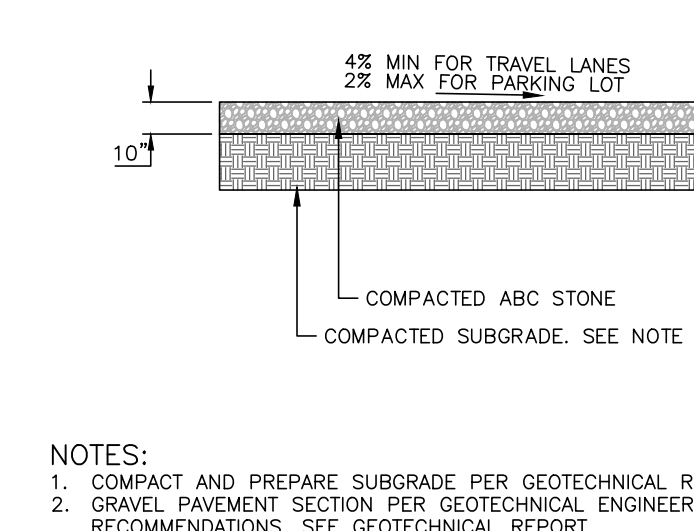
01 CONCRETE WHEEL STOP

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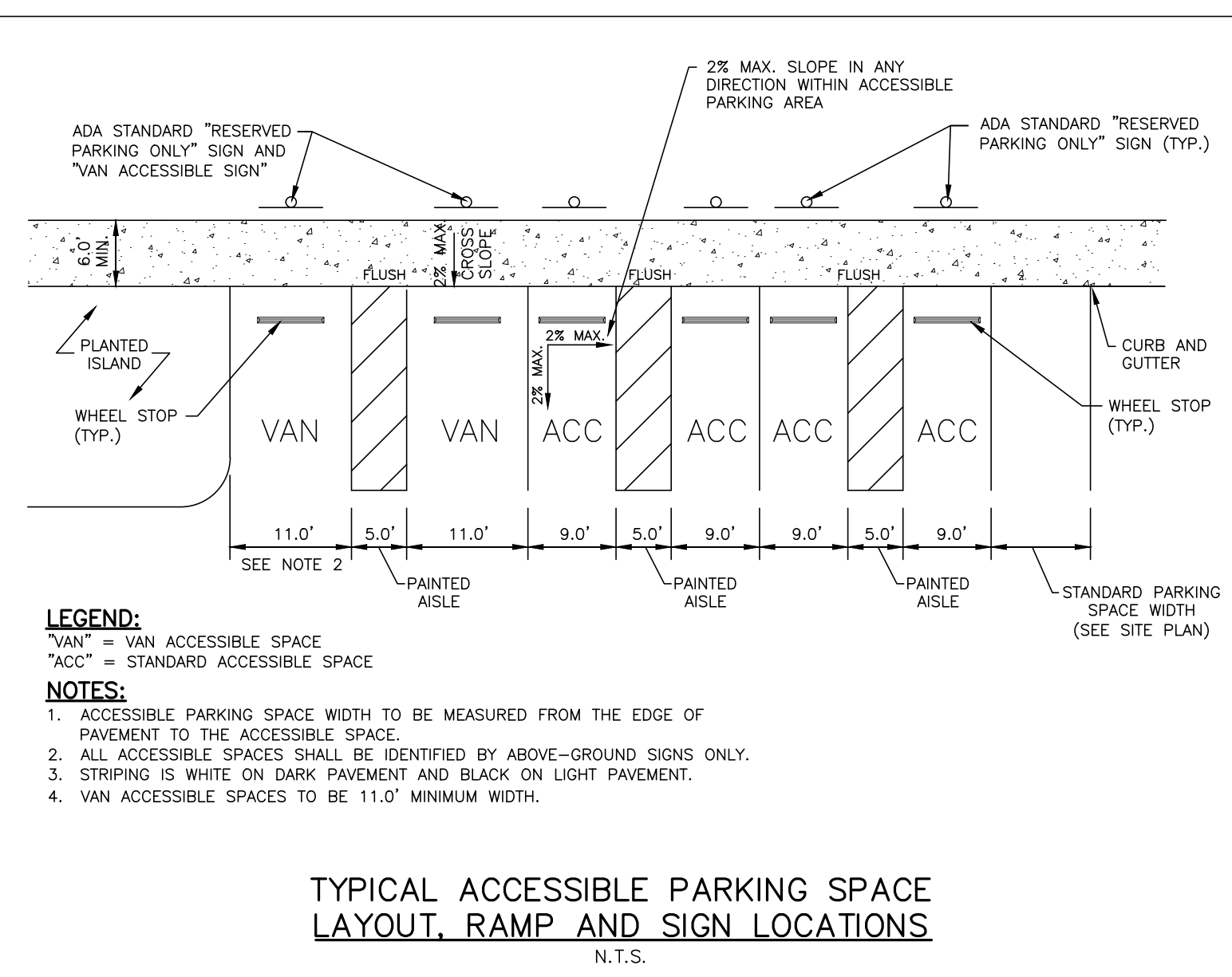
05 ACCESSIBLE PARKING SPACE SIGN

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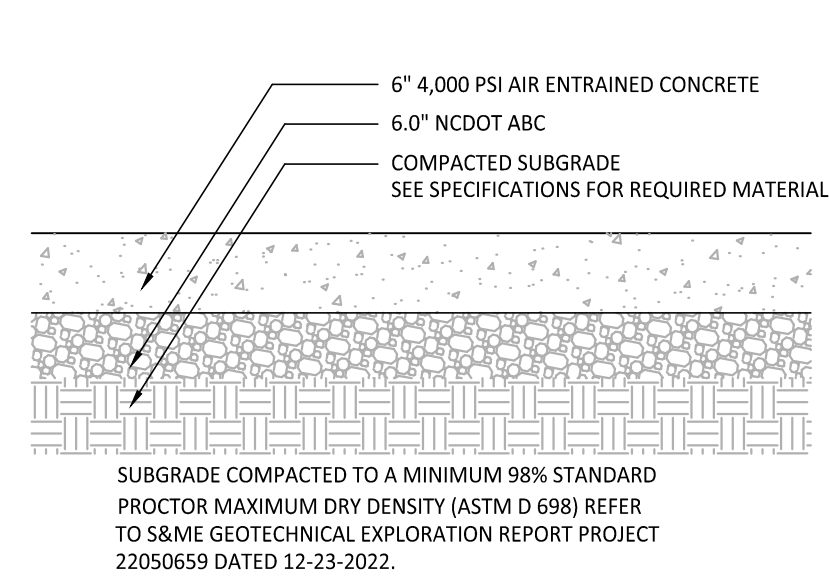
06 GRAVEL DRIVE AND PARKING LOT

SCALE: N.T.S.



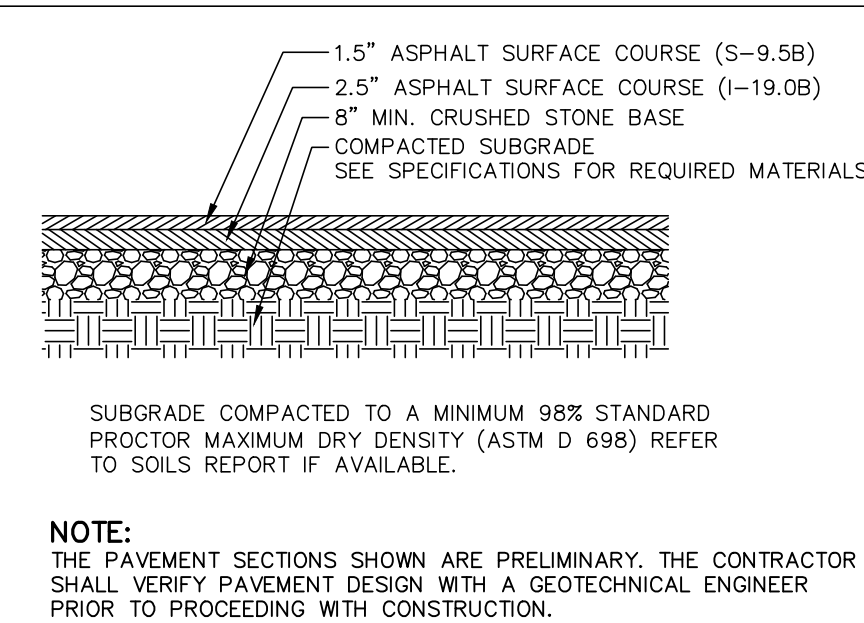
04 ACCESSIBLE PARKING AND STRIPING DETAIL

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08 ON-SITE HEAVY-DUTY CONCRETE PAVEMENT DETAIL

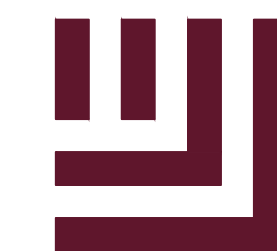
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07 ON-SITE HEAVY-DUTY ASPHALT PAVEMENT DETAIL

SCALE: N.T.S.

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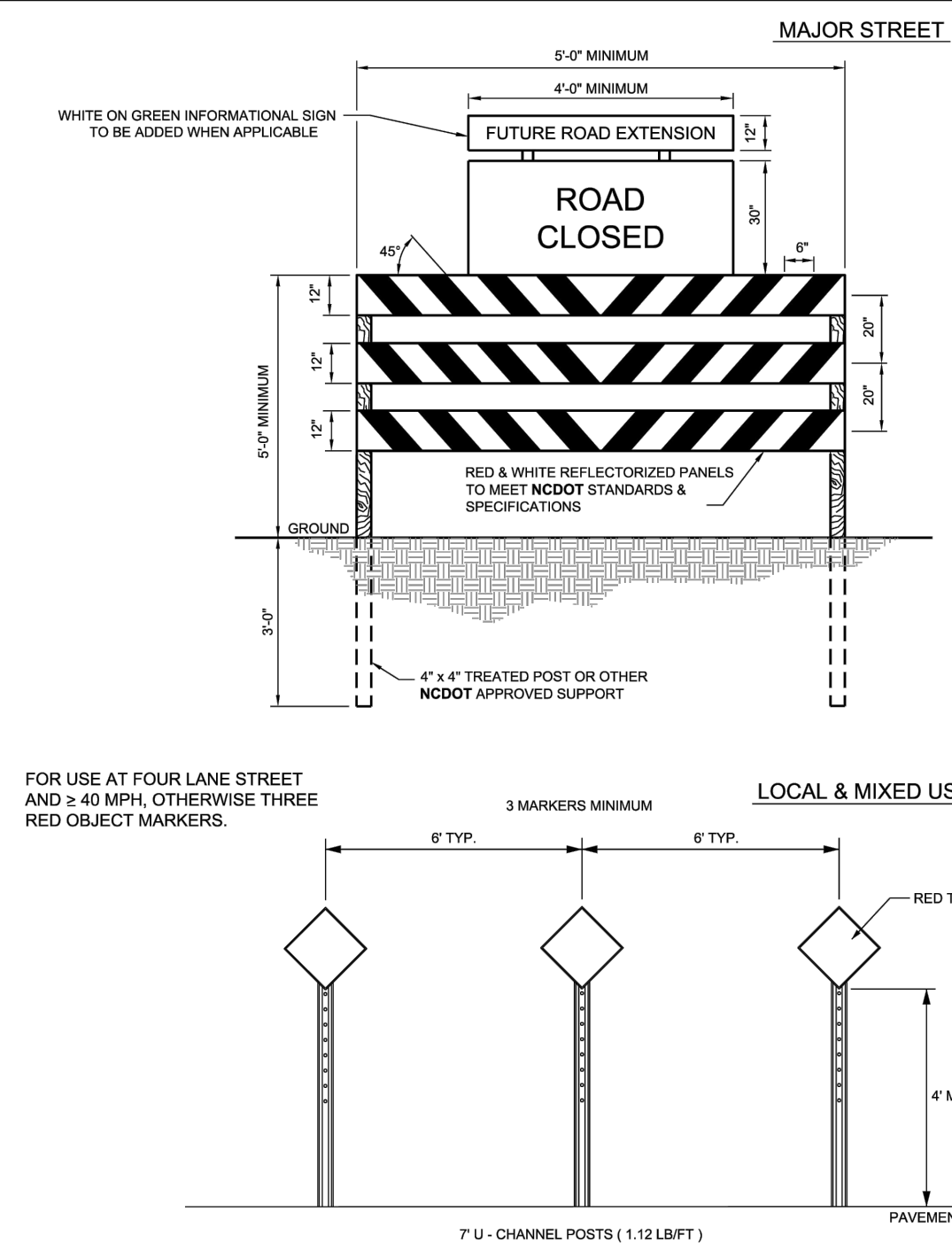
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SITE DETAILS

C8.01

CID-23-5

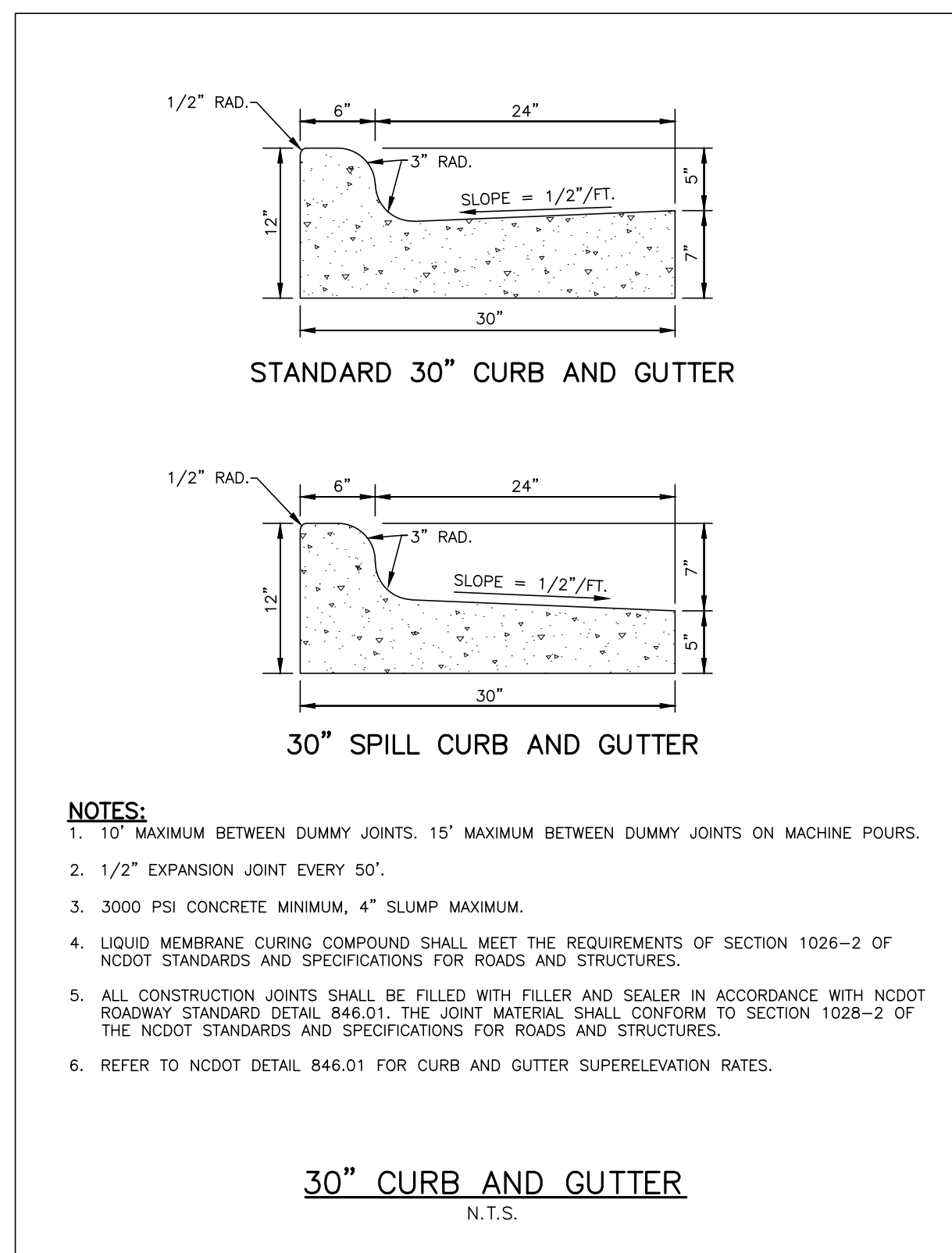
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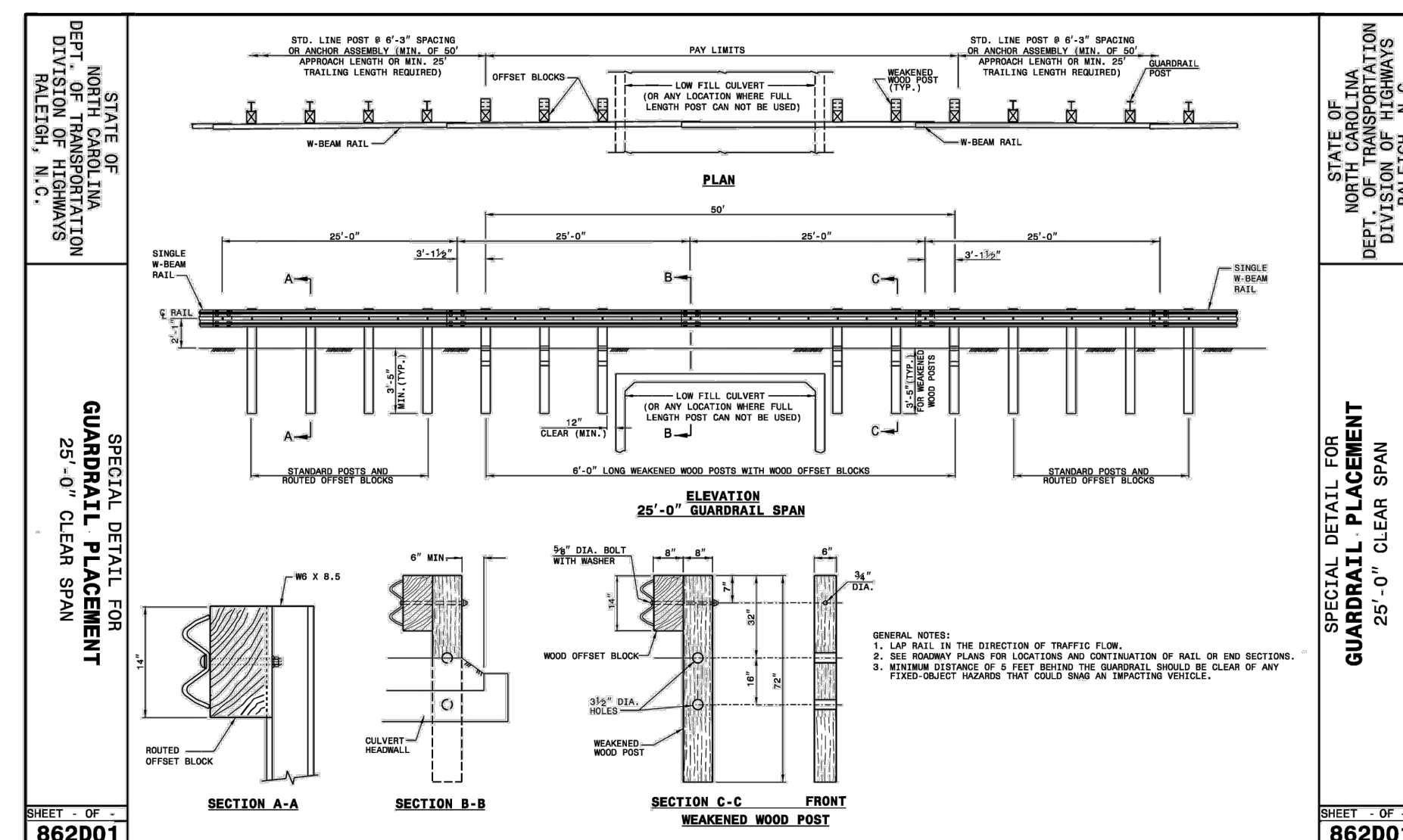
- NOTES:
1. BARRICADE(S) TO BE ERECTED ACROSS ENTIRE ROADWAY INCLUDING CURB & GUTTER.
 2. ADVANCE WARNING SIGN W14-1 (DEAD END) SHALL BE PLACED JUST AFTER LAST INTERSECTING STREET.
 3. MARKINGS FOR BARRICADE RAIS SHALL BE REFLECTIVE AND ALTERNATE RED & WHITE STRIPS.
 4. "ROAD CLOSED" SIGN SHALL MEET SPECIFICATIONS OF M.U.T.C.D. R11-2 AND BE REQUIRED ATOP EACH BARRICADE USED.
 5. CALL 811 FOR UNDERGROUND UTILITY LOCATE PRIOR TO INSTALLATION.

10 TEMPORARY BARRICADE FOR DEAD END ROAD
SCALE: N.T.S.

11
SCALE: N.T.S.

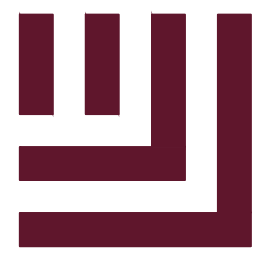


09 STANDARD 30" CURB AND GUTTER DETAILS
SCALE: N.T.S.



12 NCDOT GUARDRAIL
SCALE: N.T.S.

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SCALE N/A
DATE 12.01.2023

SHEET

STORM DRAINAGE &
UTILITY DETAILS

C8.02

CID-23-5

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION

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

ROADWAY STANDARD DRAWING FOR BRICK CATCH BASIN 12" THRU 54" PIPE

SECTION X-X, SECTION Y-Y, SECTION J-J, SECTION M-M, PLAN, ELEVATION

NOTES: MORTAR JOINTS 1/2" 1/2" THICK. USE CLASS "B" CONCRETE THROUGHOUT. USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB. DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY. USE #4 BAR DOWELS AT 12" CENTERS FOR ALL PIPE SIZES. PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66; USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED. USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS. IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00. FOR 6" TO 24" HEIGHT OR LESS, USE 3" WALL. OVER 6" TO 24" HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". QUANTITIES TO BE ADJUSTED ACCORDINGLY. CONSTRUCT WITH PIPE CROWNS MATCHING. CHAMFER ALL EXPOSED CORNERS 1". DRAWING NOT TO SCALE.

DETAIL SHOWING METHOD OF RISER CONSTRUCTION

SHEET 1 OF 2 840.01

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

ROADWAY STANDARD DRAWING FOR BRICK CATCH BASIN 12" THRU 54" PIPE

SECTION AA, SECTION BB, SECTION LL, SECTION MM, SECTION NN, SECTION PP, SECTION RR, SECTION JJ, SECTION KK, HOOD ELEVATION, FRAME PLAN

NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.

ALIGN FRAME WITH INSIDE EDGE OF WALL TO ALLOW FOR VERTICAL ADJUSTMENT.

SHEET 2 OF 2 840.03

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

ROADWAY STANDARD DRAWING FOR CONCRETE BRIDGE APPROACH DROP INLET 12" THRU 24" PIPE

SECTION X-X, SECTION Y-Y, PLAN, ELEVATION

GENERAL NOTES: USE CLASS "B" CONCRETE THROUGHOUT. PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66. OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER. USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB. IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00. #4 BAR DOWELS "B" AT 12" CENTERS. MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12 FEET. FOR LOCATIONS OF DROP INLET, SEE BRIDGE APPROACH SLABS IN THE STRUCTURE PLANS. CONSTRUCT WITH PIPE CROWNS MATCHING. DRAWING NOT TO SCALE.

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE DROP INLET

PIPE DIA.	SPAN	WIDTH	HEIGHT	HEIGHT	CUBIC YARDS OF CONCRETE IN BOX	DEDUCTIONS FOR ONE PIPE
D	A	B	H1	H2	BOTTOM SLAB TOTAL	TOTAL
12"	3'-8"	2'-0"	2'-6"	1'-6"	0.259	0.247
15"	3'-8"	2'-0"	2'-9"	1'-9"	0.259	0.247
18"	3'-8"	2'-0"	3'-0"	2'-0"	0.259	0.247
24"	3'-8"	2'-0"	3'-6"	2'-6"	0.259	0.247

SHEET 1 OF 1 840.13

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

ELEVATION, SIDE, PLAN, ENDWALL DIMENSIONS

NOTES: THIS PRECAST ENDWALL MAY BE USED FOR THE FOLLOWING STANDARDS: 838.01, 838.11, 838.21, 838.27, 838.33, 838.39, 838.51, 838.57, 838.63 AND 838.69. INSTALL PRECAST ENDWALLS WITH RINGS AND PAY FOR IN ACCORDANCE WITH SPECIFICATION SECTION 838. USE 4000 PSI CONCRETE. PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185 WITH 2" MIN. CLEARANCE. PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704. PIPE TO BE GROUTED INTO HEADWALL AT JOB SITE BY CONTRACTOR. ALL ELEMENTS PRECAST TO MEET ASTM C913. WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED. CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".

NOTE: THE MINIMUM BAR SIZE SHALL BE #5 BARS AT 8" CTS. THE CONTRACTOR WILL HAVE THE OPTION TO INCREASE THIS BAR SIZE AS NEEDED.

PIPE DIA.	BAR SIZE	H1 (FT.)	H2 (FT.)	D (FT.)	W1	W2
1.0	#5 @ 8"	1.25/2.00	2.00/3.75	1.25/1.75	3.00/3.75	5.50/6.00
1.25	#5 @ 8"	1.25/2.00	3.00/3.75	1.25/2.00	3.50/3.75	6.50/6.75
1.50	#5 @ 8"	1.25/2.00	3.00/4.25	1.50/2.50	3.50/3.75	6.50/6.75
2.0	#5 @ 8"	1.50/2.50	4.00/4.75	1.75/2.50	4.00/4.25	7.50/8.25
2.5	#5 @ 8"	2.50/3.50	4.00/6.00	2.00/3.00	4.50/5.50	10.00/11.50
3.0	#5 @ 8"	3.00/3.50	5.00/6.00	2.75/3.50	5.25/5.75	11.50/11.75
3.5	#5 @ 8"	3.25/4.50	6.00/6.75	3.25/3.50	6.00/6.75	12.00/13.25
4.0	#5 @ 8"	3.50/4.50	6.50/7.00	3.25/3.50	6.50/6.75	13.00/13.25
4.5	#5 @ 8"	4.00/5.00	6.50/8.50	3.25/4.00	7.00/9.25	13.50/15.75
5.0	#5 @ 8"	4.50/5.00	7.00/8.50	3.25/4.00	7.25/9.25	13.75/15.75
5.5	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.25/9.25	14.00/15.75
6.0	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.75/9.25	14.75/16.75

SHEET 1 OF 1 838.80

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

ROADWAY STANDARD DRAWING FOR BRICK CATCH BASIN 12" THRU 54" PIPE

PLAN OF TOP SLAB, SECTION S-S, SECTION R-R, DOWEL, ELEVATION

MINIMUM DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER)

PIPE DIA.	DIMENSIONS OF BOX AND PIPE		TOP SLAB DIMENSIONS		CU. YDS. CONC. IN BOX			BRICK MASONRY		DEDUCTIONS FOR ONE PIPE
	SPAN	WIDTH	SPAN	MIN. HEIGHT	TOTAL	TOP	BOTTOM	REIN. WITH	BOX	
12"	3'-0"	2'-2"	3'-0"	2'-9"	0.281	0.281	0.883	1.164	0.520	0.042
15"	3'-0"	2'-2"	3'-0"	3'-3"	0.281	0.281	0.963	1.244	0.531	0.047
18"	3'-0"	2'-2"	3'-0"	3'-9"	0.281	0.281	1.043	1.324	0.544	0.060
24"	3'-0"	2'-2"	3'-0"	4'-3"	0.281	0.281	1.201	1.488	0.578	0.121
30"	3'-0"	2'-2"	3'-4"	4'-3"	0.147	0.374	0.521	1.606	2.217	0.152
36"	3'-0"	2'-2"	3'-10"	4'-9"	0.187	0.415	0.602	1.914	2.516	0.176
42"	3'-0"	2'-2"	4'-5"	5'-3"	0.193	0.373	0.608	2.152	2.660	0.371
48"	3'-0"	2'-2"	5'-0"	5'-9"	0.173	0.410	0.583	2.410	2.998	0.313
54"	3'-0"	2'-2"	5'-7"	6'-3"	0.211	0.448	0.659	2.806	3.465	0.396

* RISER HAS .321 CUBIC YARDS OF BRICK MASONRY PER FOOT HEIGHT

SHEET 2 OF 2 840.01

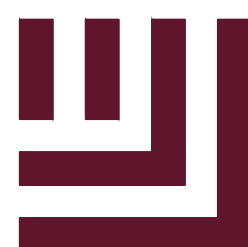
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN

DETAIL SHOWING TYPES OF GRATES USE ACCORDING TO WATER FLOW. TYPE "G", TYPE "E", TYPE "F", TYPE "F", TYPE "E", TYPE "G", TYPE - E, TYPE - F, TYPE G

SHEET 2 OF 2 840.03

M:\Projects\WOL2020110039 Frazier Farm PH1A\04-Production\Engineering\Phase1A_CD\2020110039-PH1-D1.dwg, 12/1/2023 4:54:21 PM, Eric Demorel



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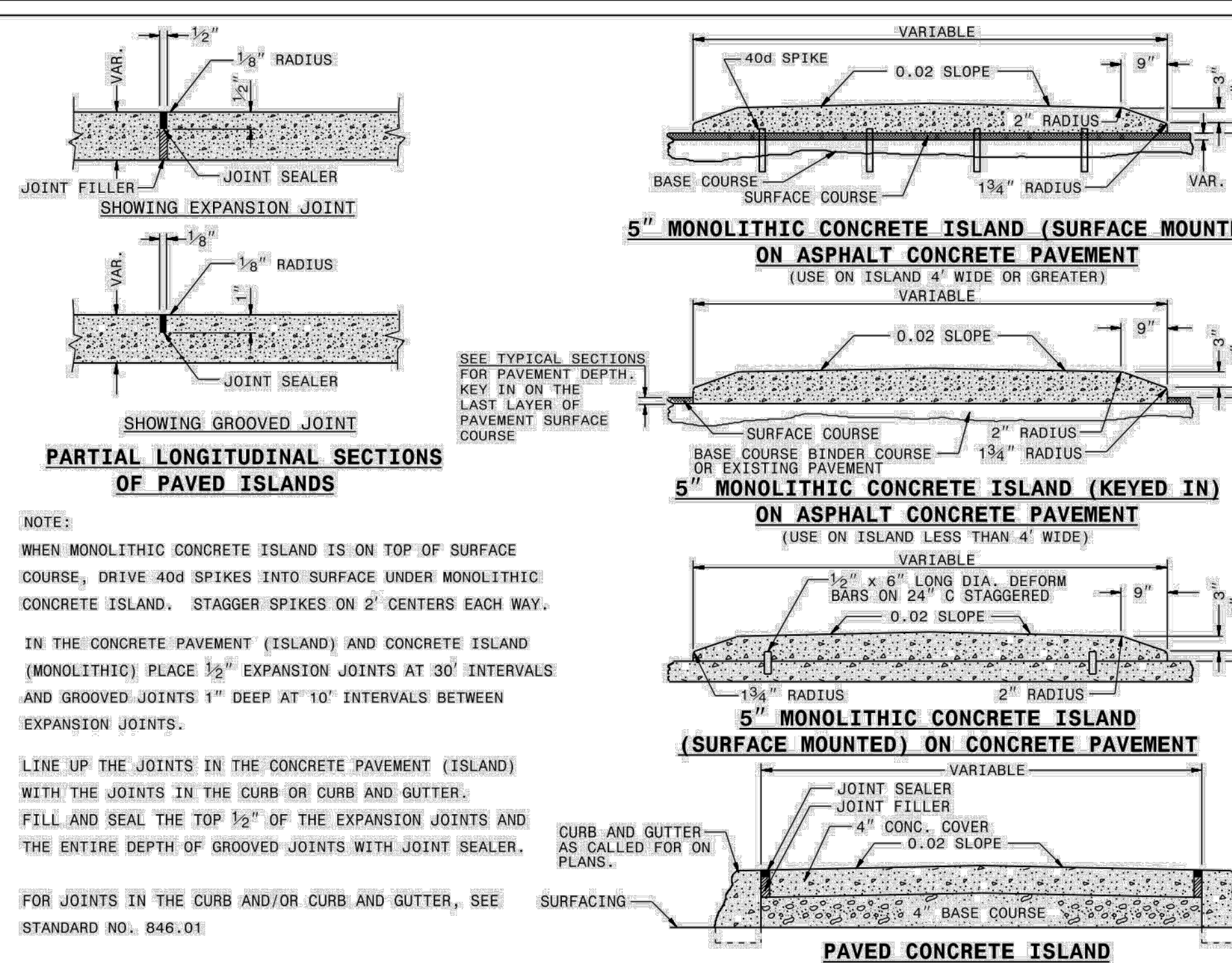
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STORM DRAINAGE & UTILITY DETAILS

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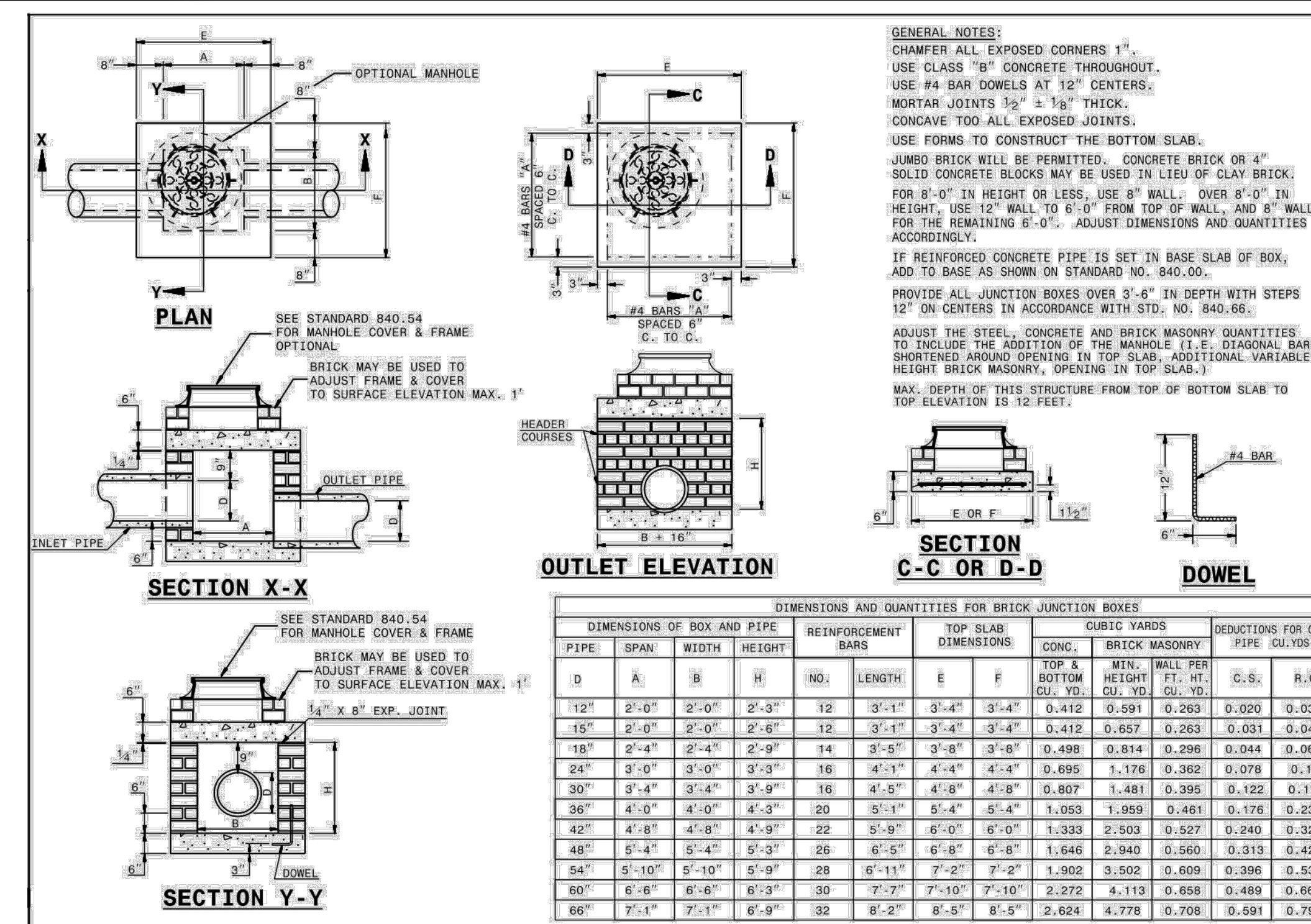
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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR BRICK JUNCTION BOX (WITH OPTIONAL MANHOLE) 12" THRU 66" PIPE SHEET 1 OF 1 840.32



GENERAL NOTES: CHAMFER ALL EXPOSED CORNERS 1/4". USE CLASS "B" CONCRETE THROUGHOUT. USE #4 BAR DOWELS AT 12" CENTERS. MORTAR JOINTS 1/2" x 1/8" THICK. LONGWAVE TOO ALL EXPOSED JOINTS. USE FORMS TO CONSTRUCT THE BOTTOM SLAB. JUMBO BRICK WILL BE PERMITTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK. FOR 8'-0" IN HEIGHT OR LESS, USE 8" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0". ADJUST DIMENSIONS AND QUANTITIES ACCORDINGLY. IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.00. PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. NO. 840.66. ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE 11" DIAMETER BARS SHORTENED AROUND OPENING IN TOP SLAB. ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB. MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 18 FEET.

FILL HEIGHT TABLE showing installation requirements for Type 3 (Bedding) and Type 4 (Bedding) in inches and feet, with columns for pipe diameter and maximum bury.

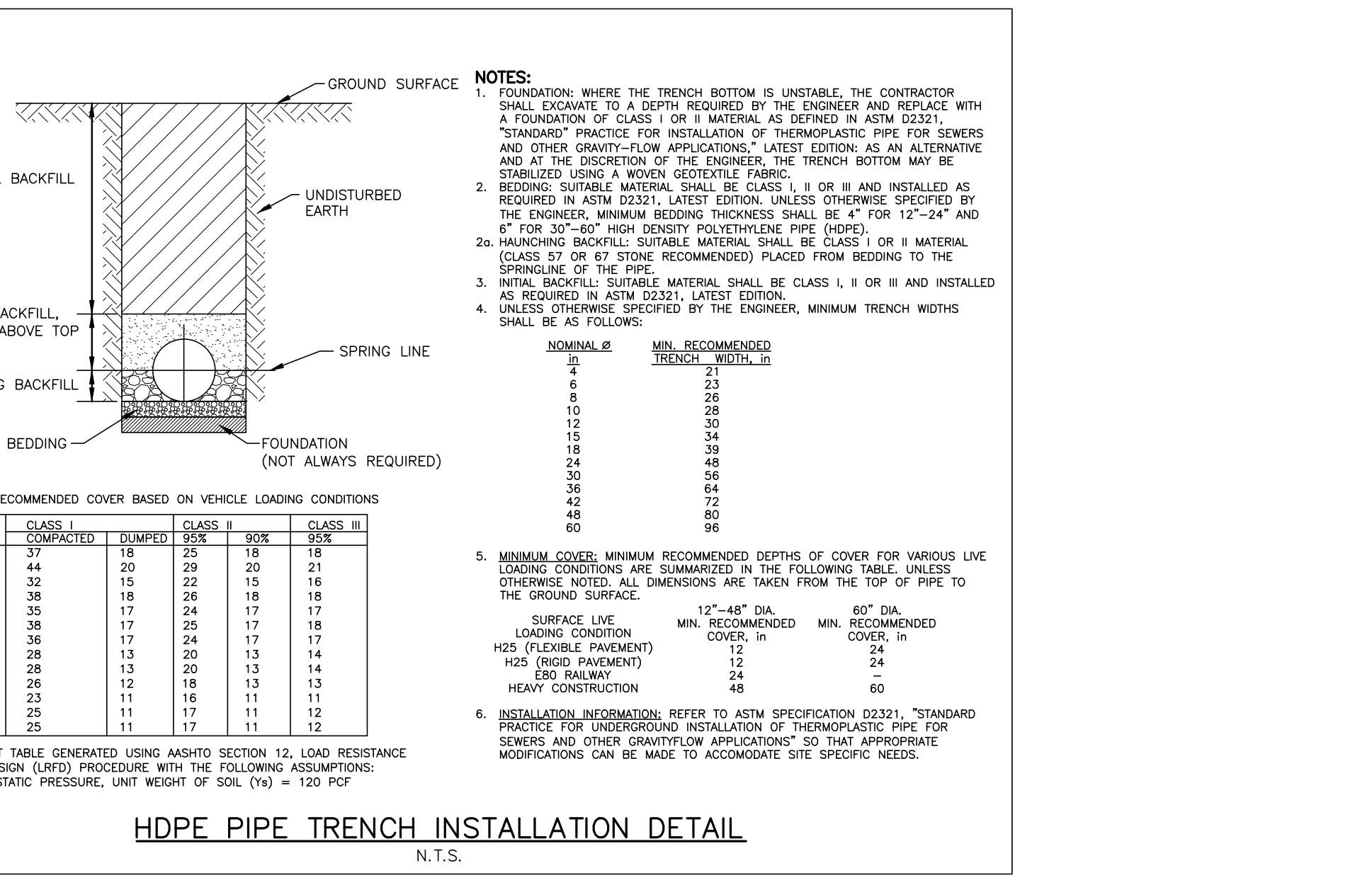
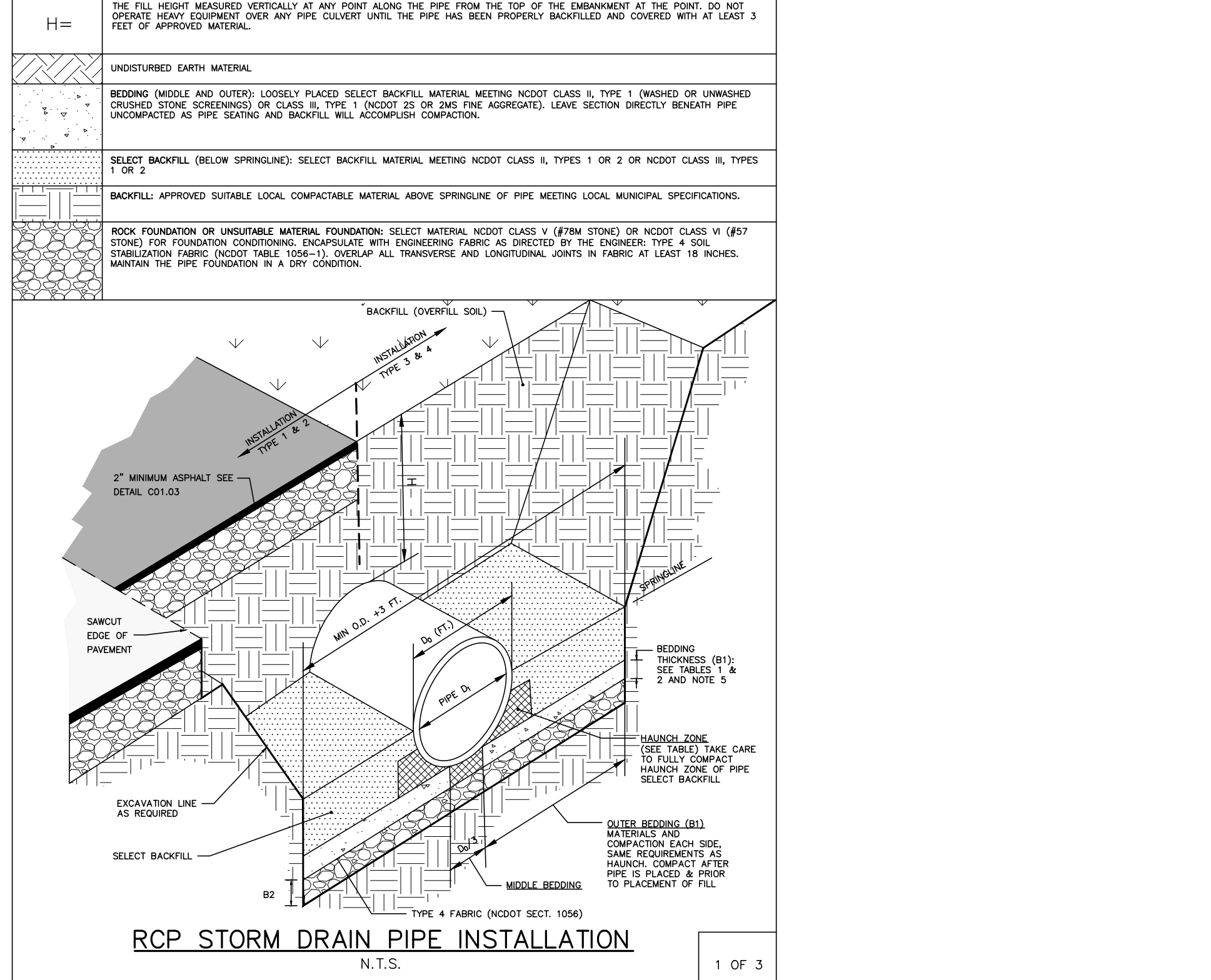
FILL HEIGHT TABLE BASE ON: 1. Ys = 120 PCF (BACKFILL LOAD) 2. ASHTO HL-93 LIVE LOAD 3. POSITIVE PROJECTING EMBANKMENT CONDITION... NOTES: 1. GREATER BURY DEPTHS THAN THOSE SHOWN ABOVE ARE ACHIEVABLE BY EITHER USING TYPE 1 OR 2 INSTALLATION, USING CLASS V PIPE, CONTROLLING BACKFILL TYPE, CALCULATING DEPTH USING A TRENCH CONDITION, OR BY SPECIAL DESIGN. SEE ALSO DESIGN DATA 9 PUBLISHED BY THE ACPA FOR DESIGN METHODOLOGY. 2. IN LIEU OF CALCULATING BURY DEPTH FOR OTHER CONDITIONS, FIRST SEE "LFRD FILL HEIGHT TABLES FOR CONCRETE PIPE", LAST REVISED JULY 2009 (OR LATER), PREPARED BY THE ACPA FOR OTHER BURY DEPTH POSSIBILITIES. 3. SEE NCDOT PIPE SELECTION TABLE

TABLE 1 EQUIVALENT USCS* AND AASHTO SOIL CLASSIFICATION FOR SIDD# SOIL DESIGNATIONS. Table with columns for SIDD, USCS, and NCDOT/AASHTO soil types.

TABLE 2 STANDARD INSTALLATIONS SOILS AND MINIMUM COMPACTION REQUIREMENTS. Table with columns for Installation Type, Bedding Thickness, Outer Bedding, Haunch Zone, and Location.

NOTES: 1. COMPACTION AND SOIL SYMBOLS - I.E. "95% CATEGORY I" - REFERS TO CATEGORY I SOIL MATERIAL WITH MINIMUM STANDARD PROCTOR COMPACTION OF 95%. 2. SOIL IN THE OUTER BEDDING, HAUNCH, AND LOWER SIDE ZONES, EXCEPT UNDER THE MIDDLE 1' OF THE PIPE, SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS THE MAJORITY OF THE SOIL IN THE OVERFILL (BACKFILL) ZONE. 3. FOR TRENCHES, THE TOP ELEVATION SHALL BE NO LOWER THAN 0.1H BELOW FINISHED GRADE OR, FOR ROADWAYS, ITS TOP SHALL BE NO LOWER THAN AN ELEVATION OF 1-FOOT BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL. 4. FOR TRENCHES, THE WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES. 5. COMPACT OUTER BEDDING AFTER PIPE IS PLACED AND PRIOR TO PLACEMENT OF SELECT FILL, MIDDLE BEDDING IS UNCOMPACTED. 6. OVERFILL (BACKFILL) SOILS TO BE PLACED PER STANDARD SPECIFICATION 02700 STORM DRAINAGE FOR THE APPLICABLE BACKFILL TYPE AND BURY LIMITATIONS. 7. THESE TWO TABLES WERE MODIFIED TO GENERALLY CONFORM TO THE NCDOT STANDARDS AS SHOWN IN DETAIL 300.01 RIGID PIPE IN TRENCH CONDITION.

REFERENCE SOURCES: 1. AMERICAN CONCRETE PIPE ASSOCIATION DESIGN STANDARDS 2. 2012 NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES AND NCDOT STANDARD DETAILS 300.01 FOR RIGID PIPE, TRENCH CONDITIONS.



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