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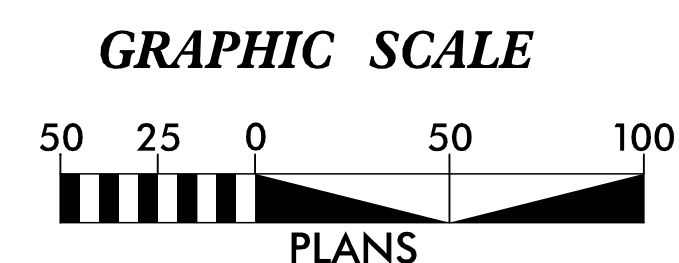
HNTB

NATALIE CHAN, P.E.

HNTB

Roadway Standard Drawings

**THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL STORMWATER CONSTRUCTION PERMIT
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF ENERGY,
MINERAL, AND LAND RESOURCES.**



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
HL-0065	EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

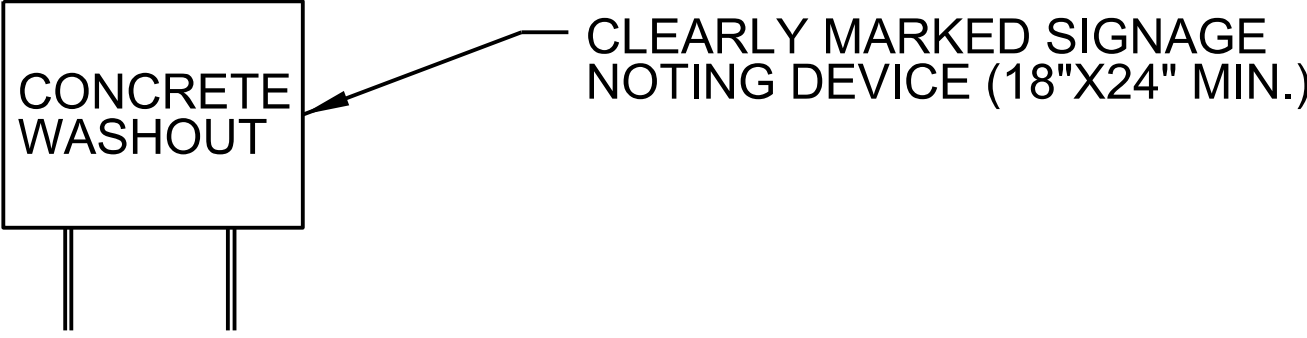
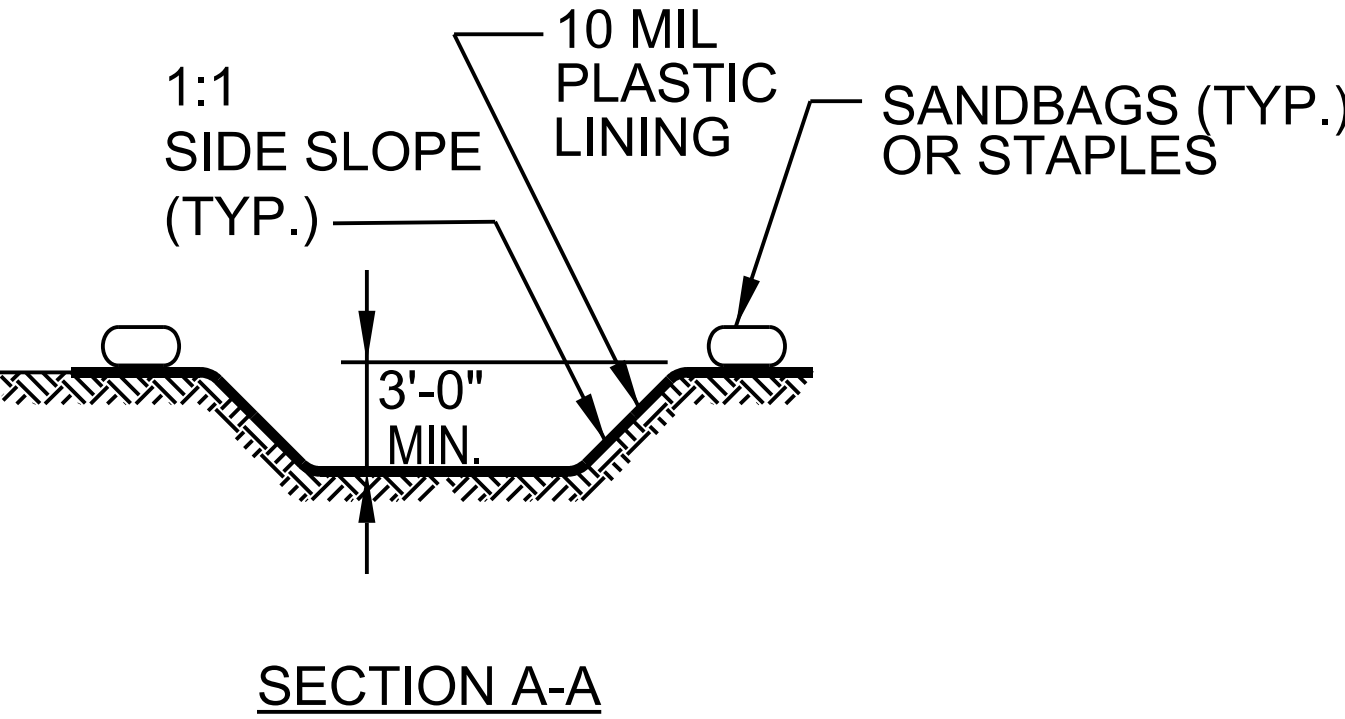
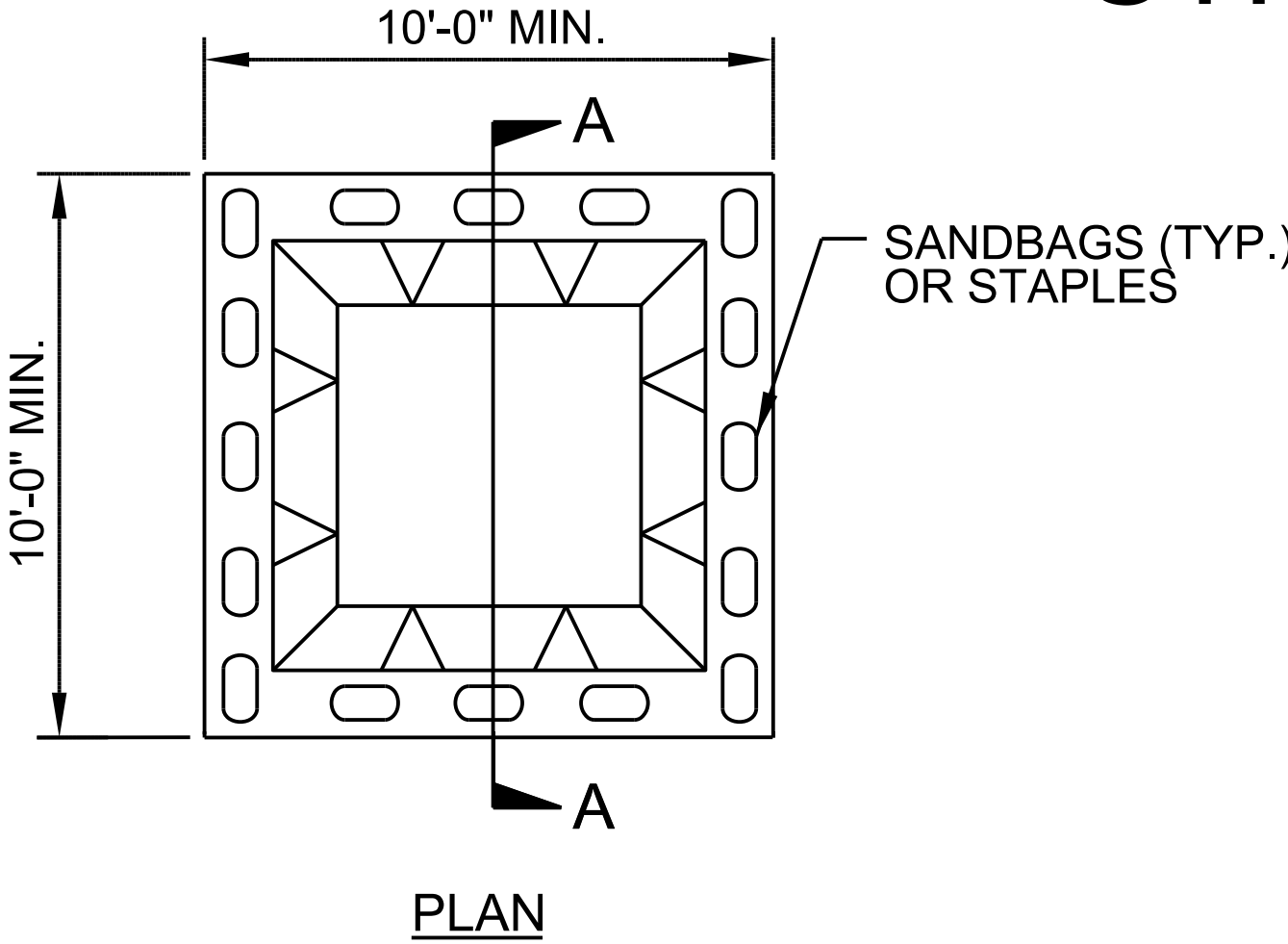
EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	
1630.04	Stilling Basin	
1630.05	Temporary Diversion	
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	

Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	
1635.02	Rock Pipe Inlet Sediment Trap Type B	
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	
	Silt Fence Coir Fiber Wattle Break	
1636.03	Excelsior Wattle Barrier	
1636.03	Coir Fiber Wattle Barrier	

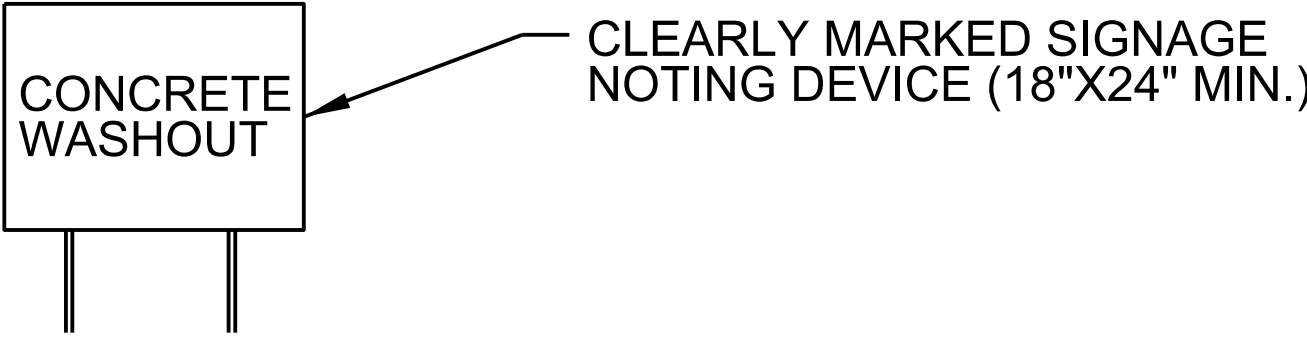
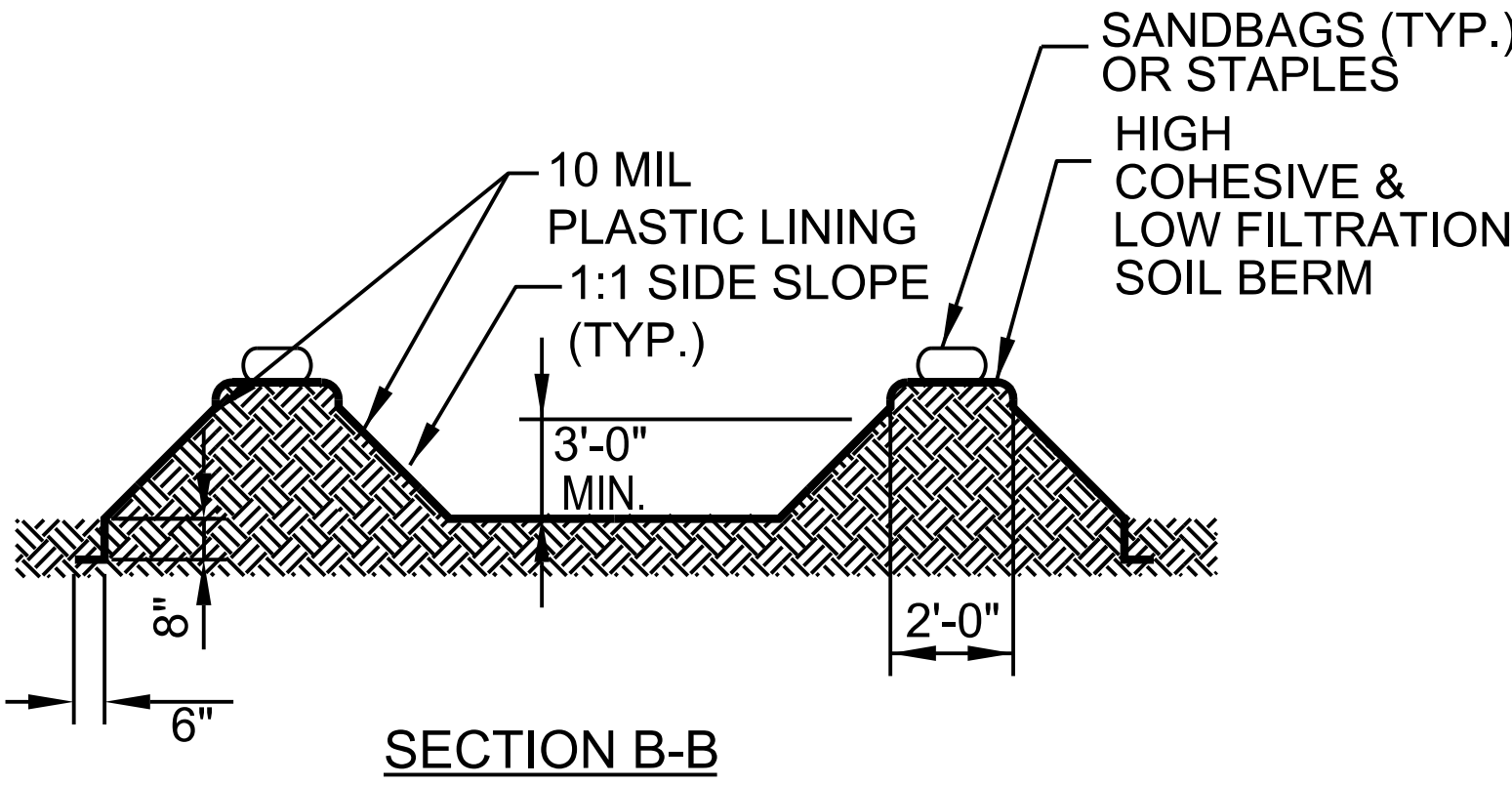
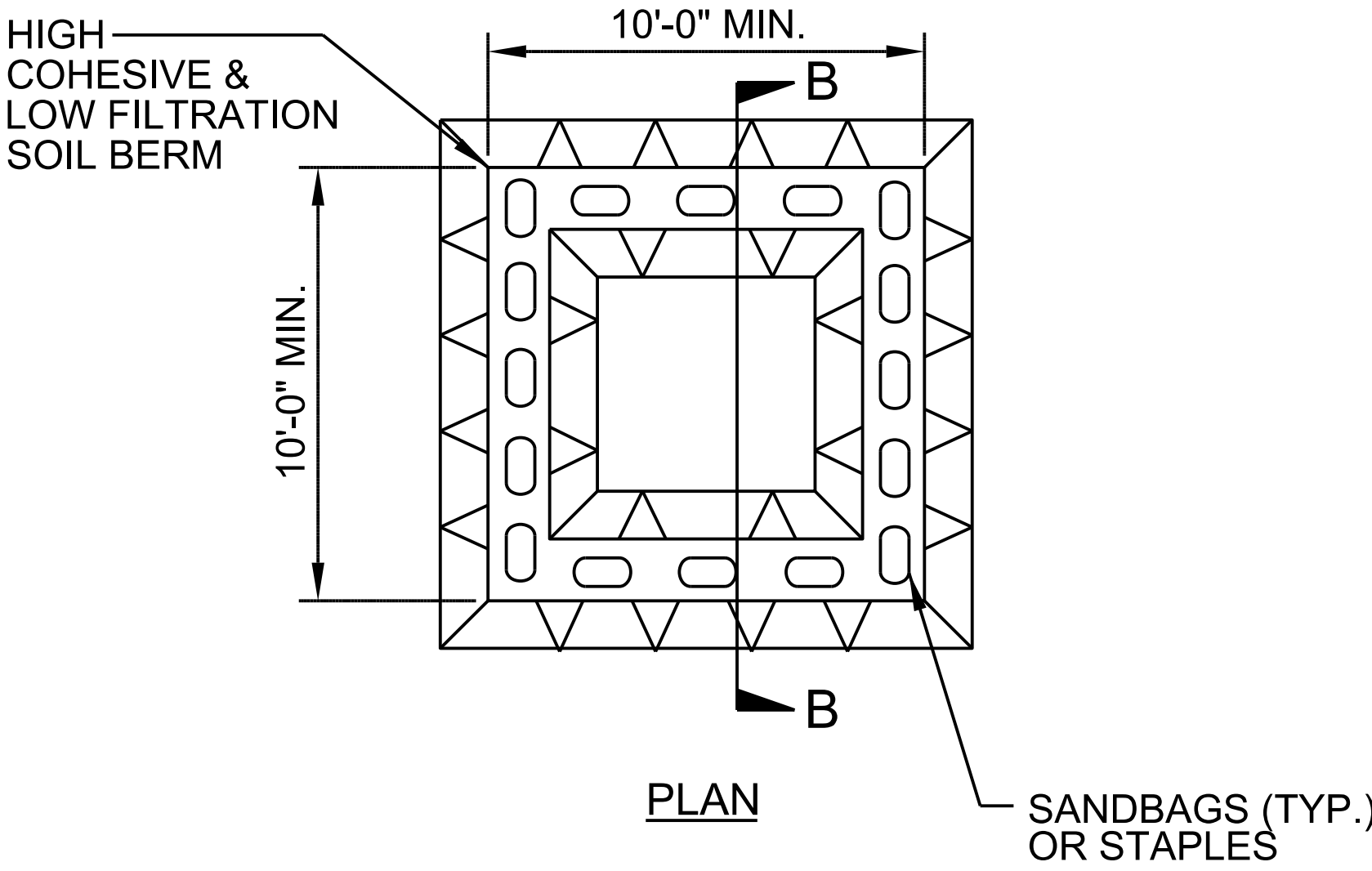
ONSITE CONCRETE WASHOUT
STRUCTURE WITH LINER

PROJECT REFERENCE NO.	SHEET NO.
HL-0065	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

	CONTROL	PERM
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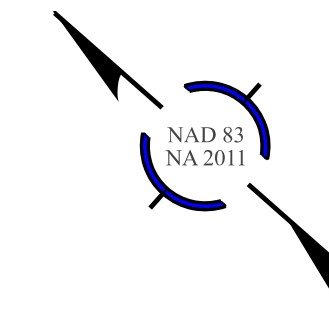
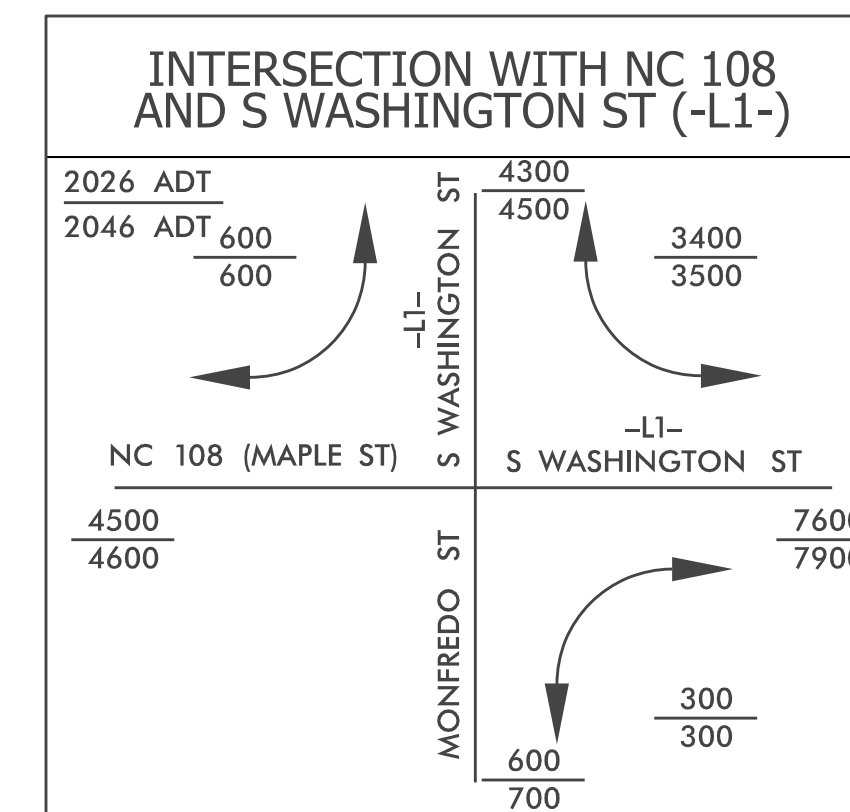
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
HL-0065	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

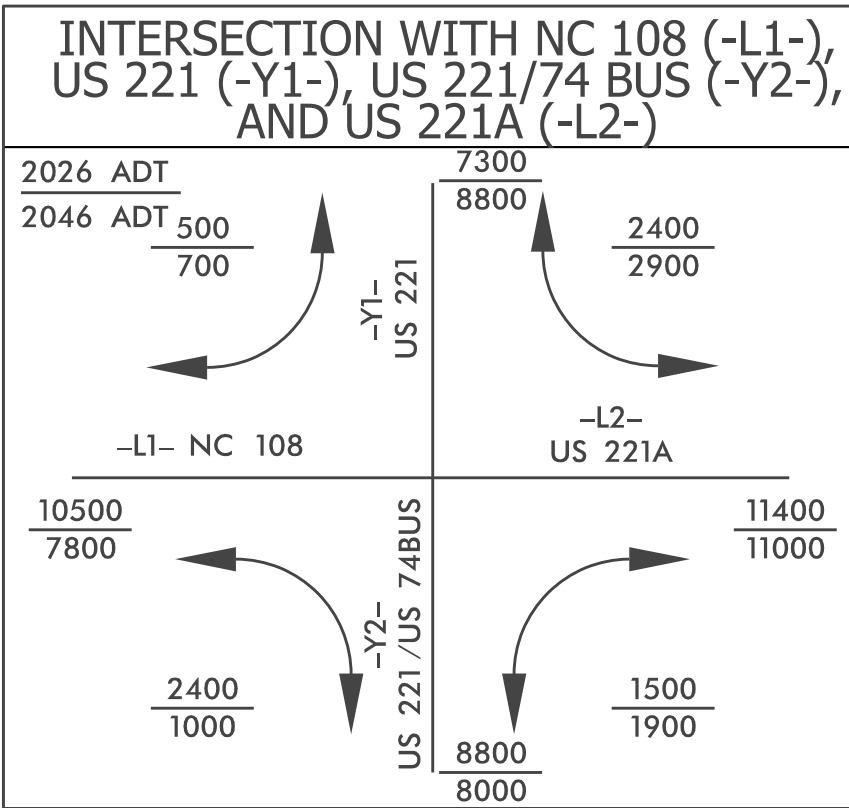
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

PREPARED BY



REVISIONS

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

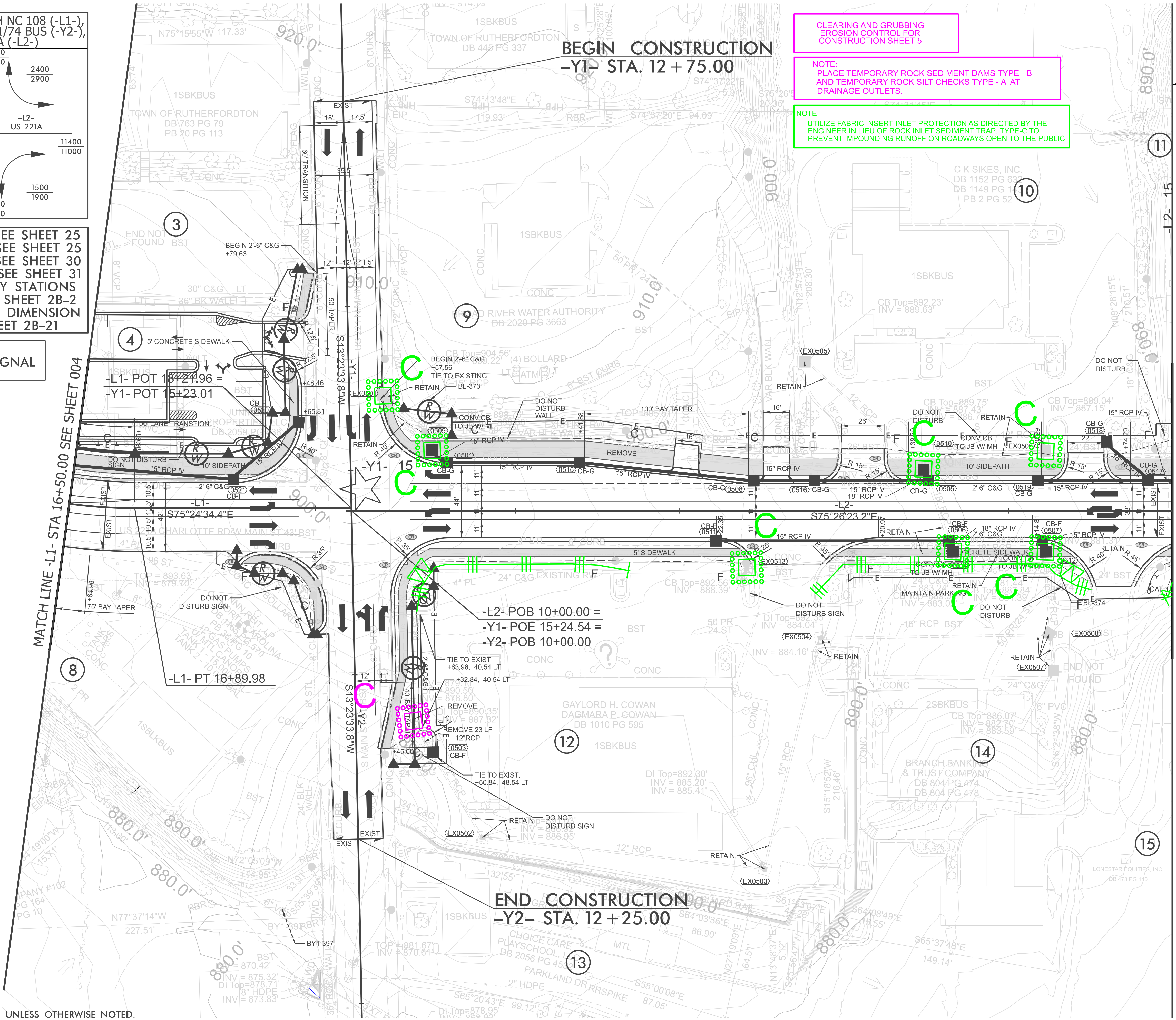


FOR -L1- PROFILE, SEE SHEET 25
FOR -L2- PROFILE, SEE SHEET 25
FOR -Y1- PROFILE, SEE SHEET 30
FOR -Y2- PROFILE, SEE SHEET 31
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-2
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 2B-21



EXISTING SIGNAL

MATCH LINE -L1- STA 16+50.00 SEE SHEET 004



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.



MATCH LINE -L2- STA 15+00.00 SEE SHEET 006

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

HL-0065

EC-5005

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY

ROADSIDE ENVIRONMENTAL UNIT

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

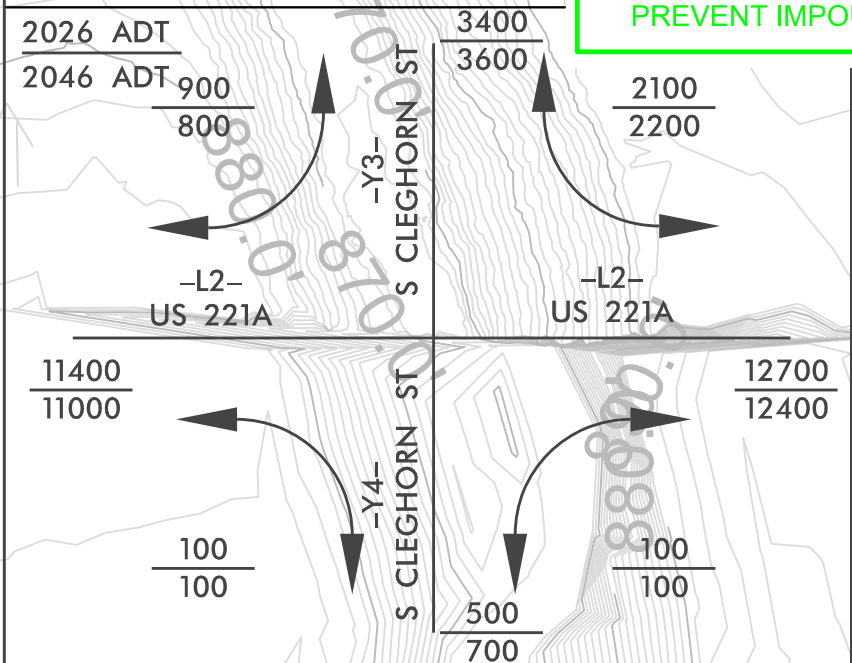
PREPARED BY

HNTB

REVISIONS



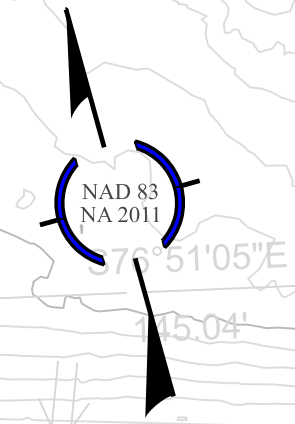
INTERSECTION WITH US
AND S CLEGHORN ST (-)



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



BEGIN CONSTRUCTION

-Y3- STA. 11 + 50.00

-L2- PT 19+38.59 =

-Y3- POE 12+39.61

END 1.5" MILL AND OVERLAY

-Y4- STA. 10 + 56.50

END CONSTRUCTION

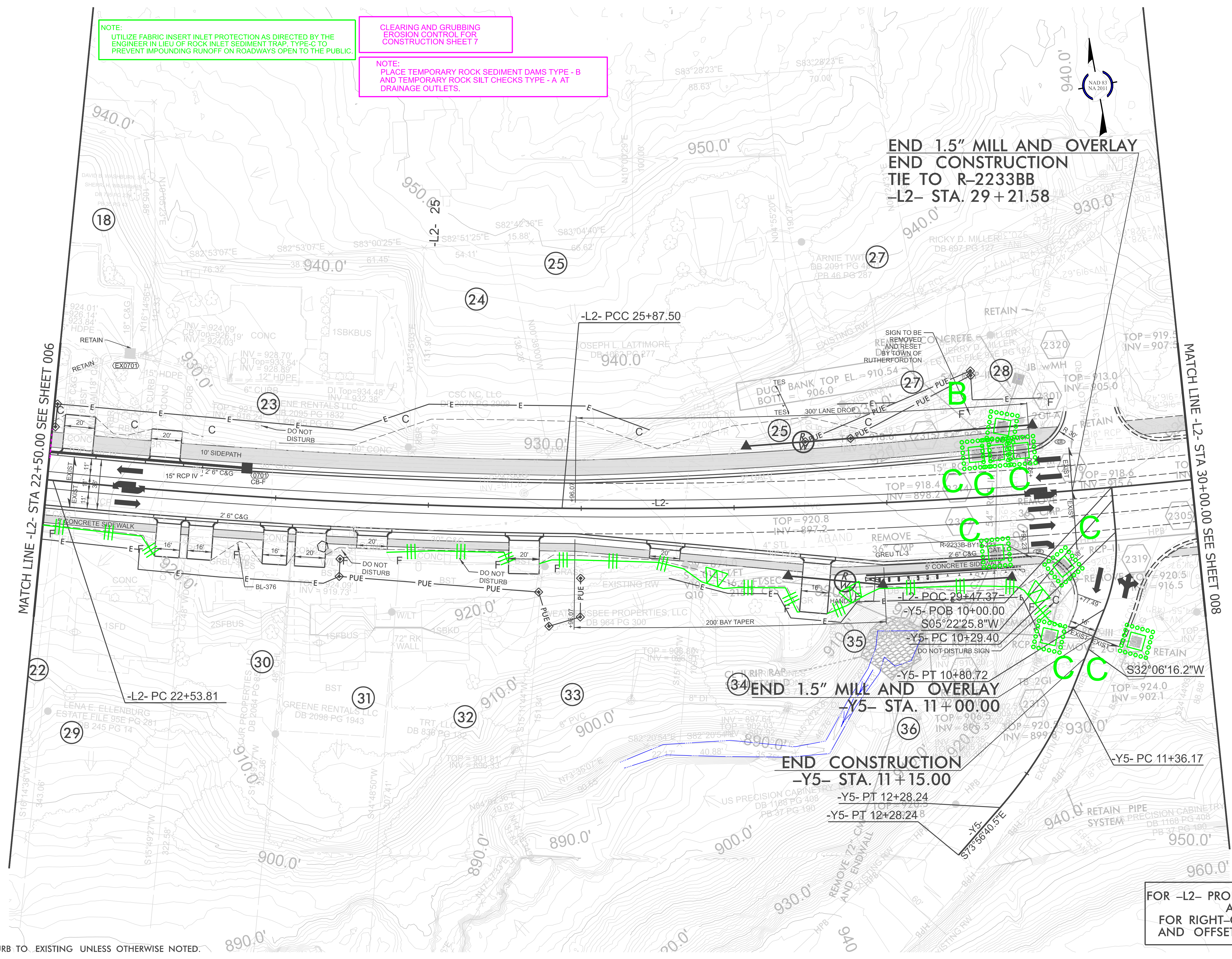
-Y4- STA. 10 + 67.00

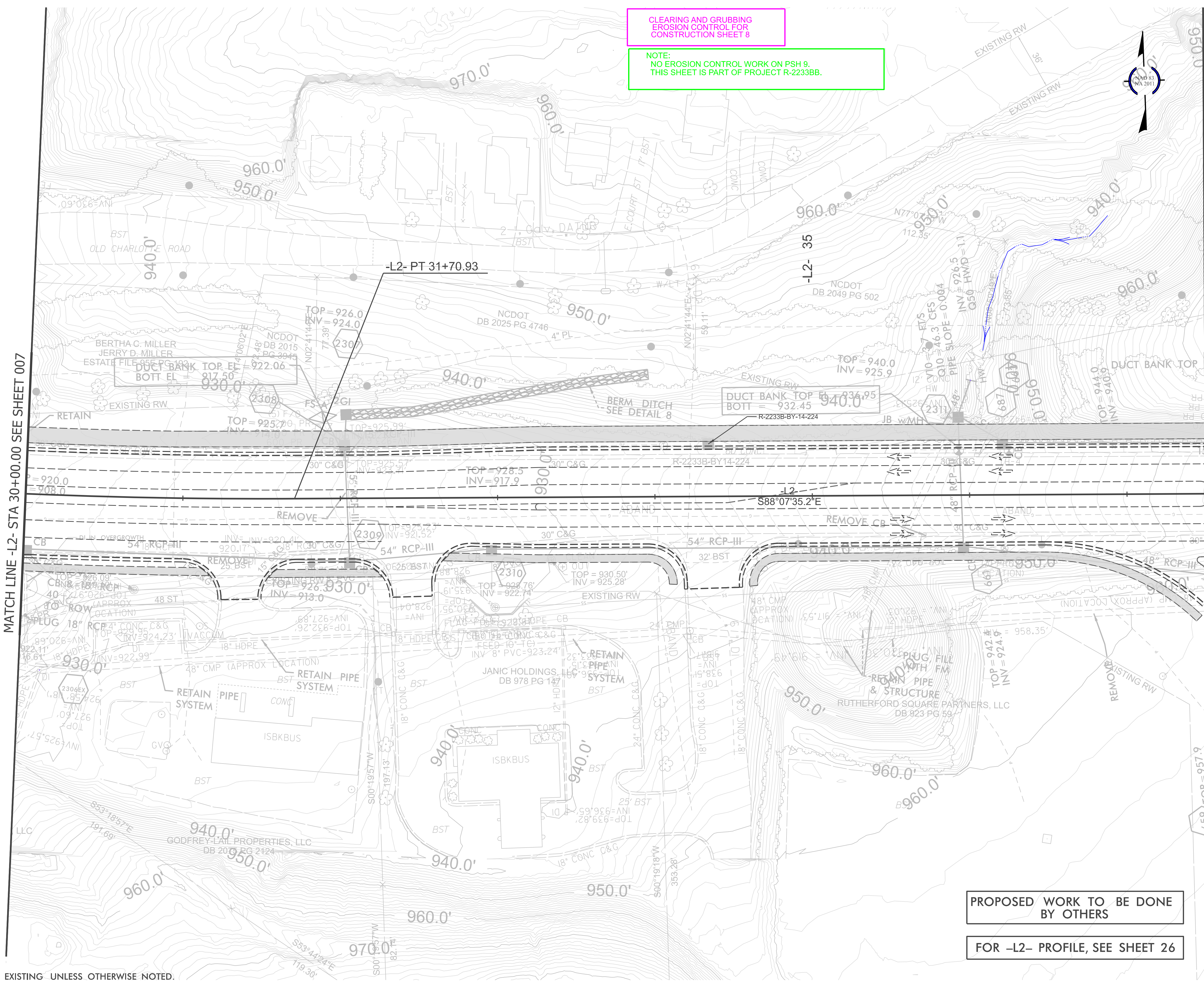


FOR -L2- PROFILE, SEE SHEET 25
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-3
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 2B-22
FOR TRANSIT STOP STATIONS
SEE SHEET 2B-27
FOR LANDSCAPE DETAILS
SEE SHEET L7

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

FOR -L2- PROFILE, SEE SHEETS 25
AND 26
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-4





REVISIONS

HL-0065

EC-9009

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY



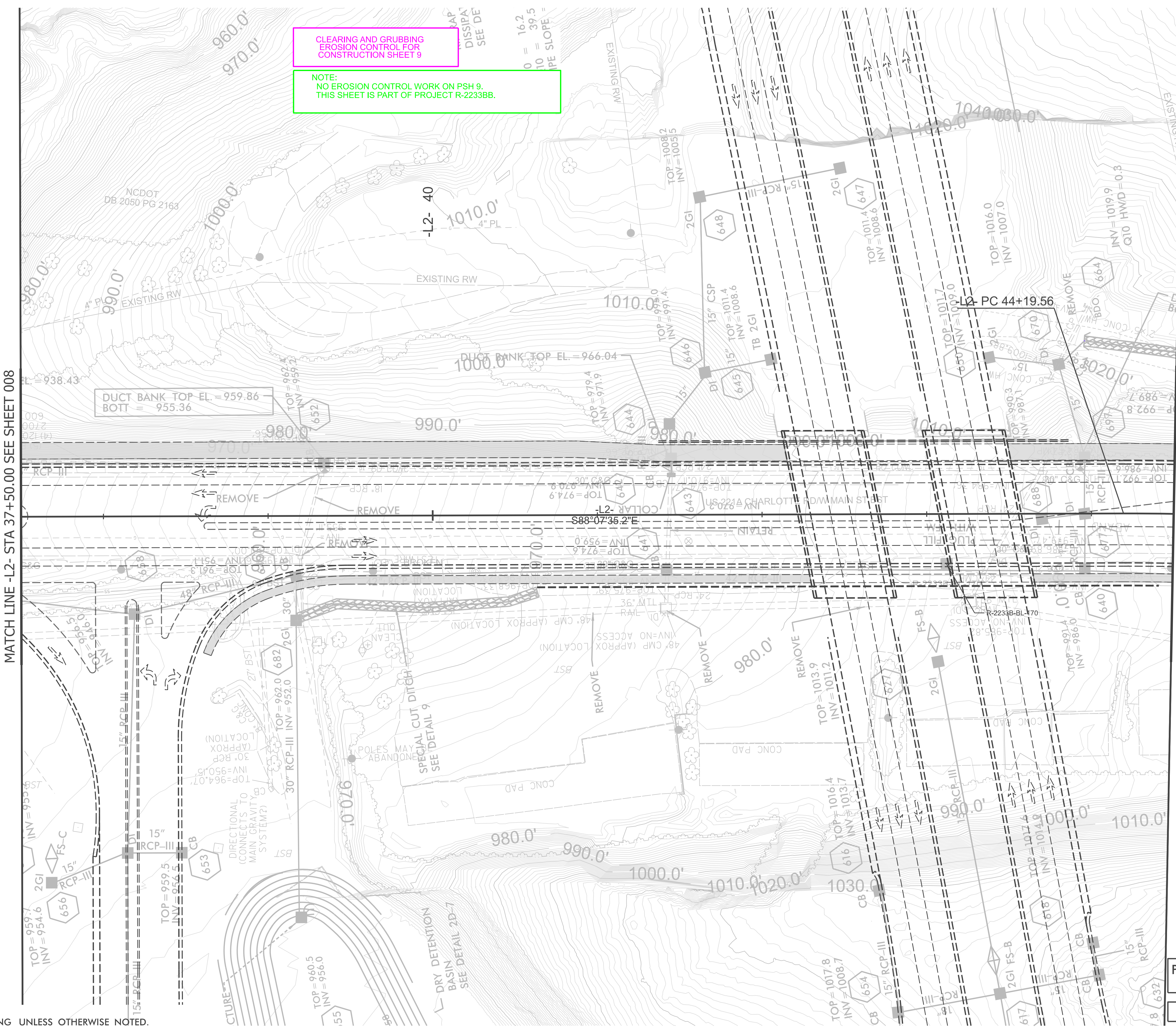
ROADSIDE ENVIRONMENTAL UNIT
ROADWAY DESIGN
ENGINEER

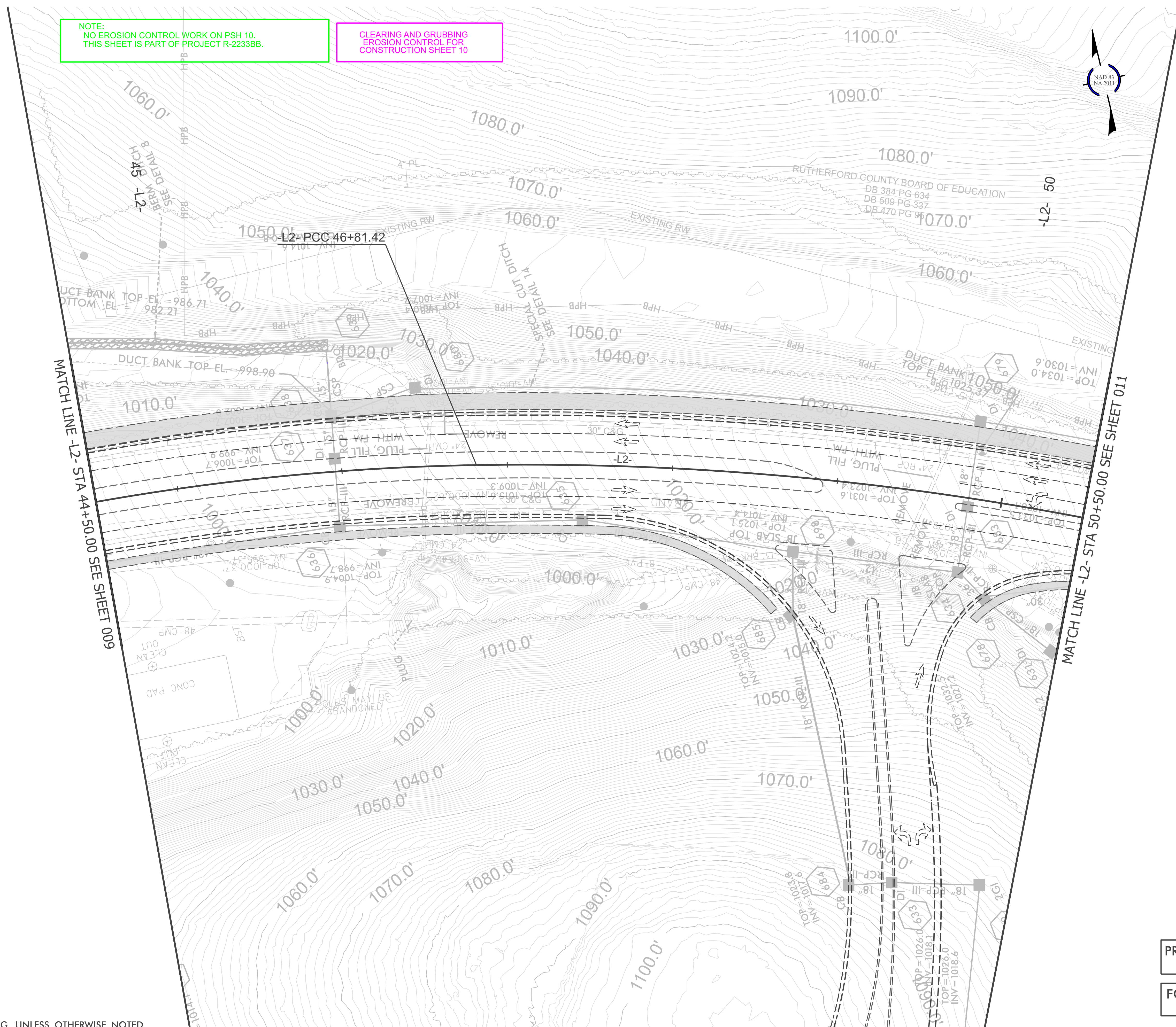
HYDRAULICS
ENGINEER

PREPARED BY

HNTB
2000 SOUTH PARKWAY, SUITE 200
RICHMOND, VA 23261
TEL: (804) 771-1100
FAX: (804) 771-1101
WWW.HNTB.COM

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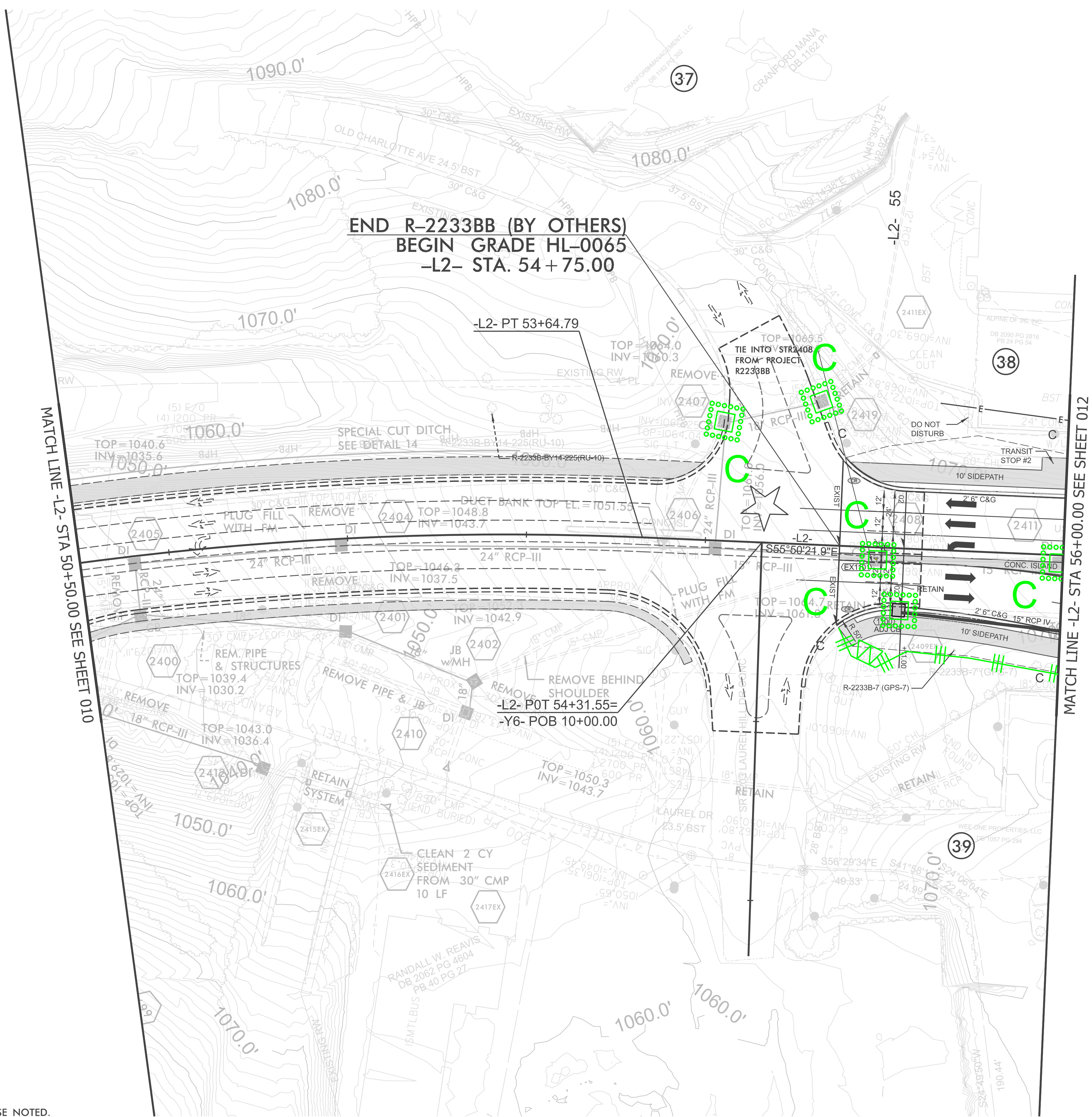


NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

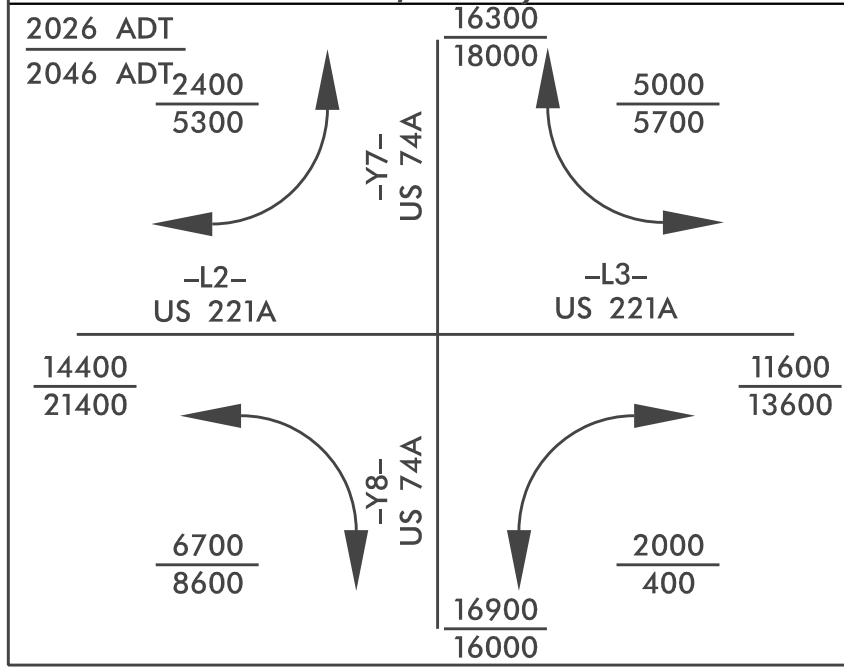
PROPOSED WORK TO BE DONE BY OTHERS	
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FOR -L2- PROFILE, SEE SHEETS 26
AND 27

REVISIONS



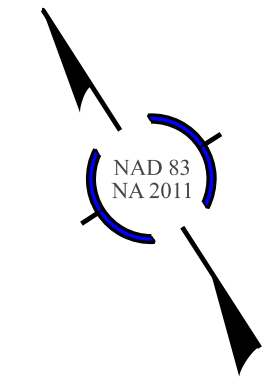
ROUNDBOUT AT INTERSECTION OF
US221A (-L2- / -L3-) AND US 74A (-
Y7- / -Y8-)



NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.



MATCH LINE -L2- STA 56+00.00 SEE SHEET 011

MATCH LINE -L3- STA 13+75.00 SEE SHEET 013

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

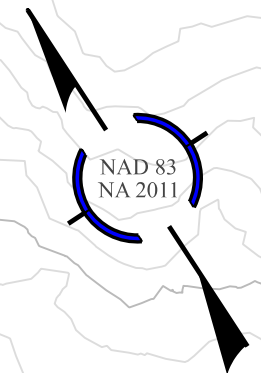
FOR -L2- PROFILE, SEE SHEET 27
FOR -L3- PROFILE, SEE SHEET 27
FOR -RAB- PROFILE, SEE SHEET 30
FOR -Y7- PROFILE, SEE SHEET 31
FOR -Y8- PROFILE, SEE SHEET 31
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-6
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 2B-19
FOR TRANSIT STOP STATIONS
SEE SHEET 2B-27
FOR LANDSCAPE DETAILS SEE
SHEETS L9, L10, L11, AND L12



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.



MATCH LINE -L3- STA 13+75.00 SEE SHEET 012

MATCH LINE -L3- STA 21+25.00 SEE SHEET 014

END GRADE
BEGIN 1.5" MILL
AND OVERLAY
-L3- STA. 15+75.00

END CONSTRUCTION
-Y9- STA. 10+56.33

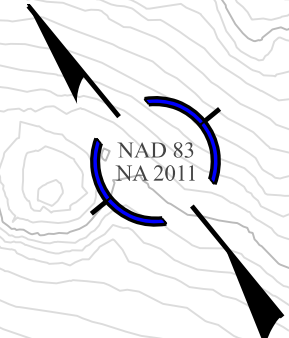
NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

FOR -L3- PROFILE, SEE SHEET 27
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-7

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



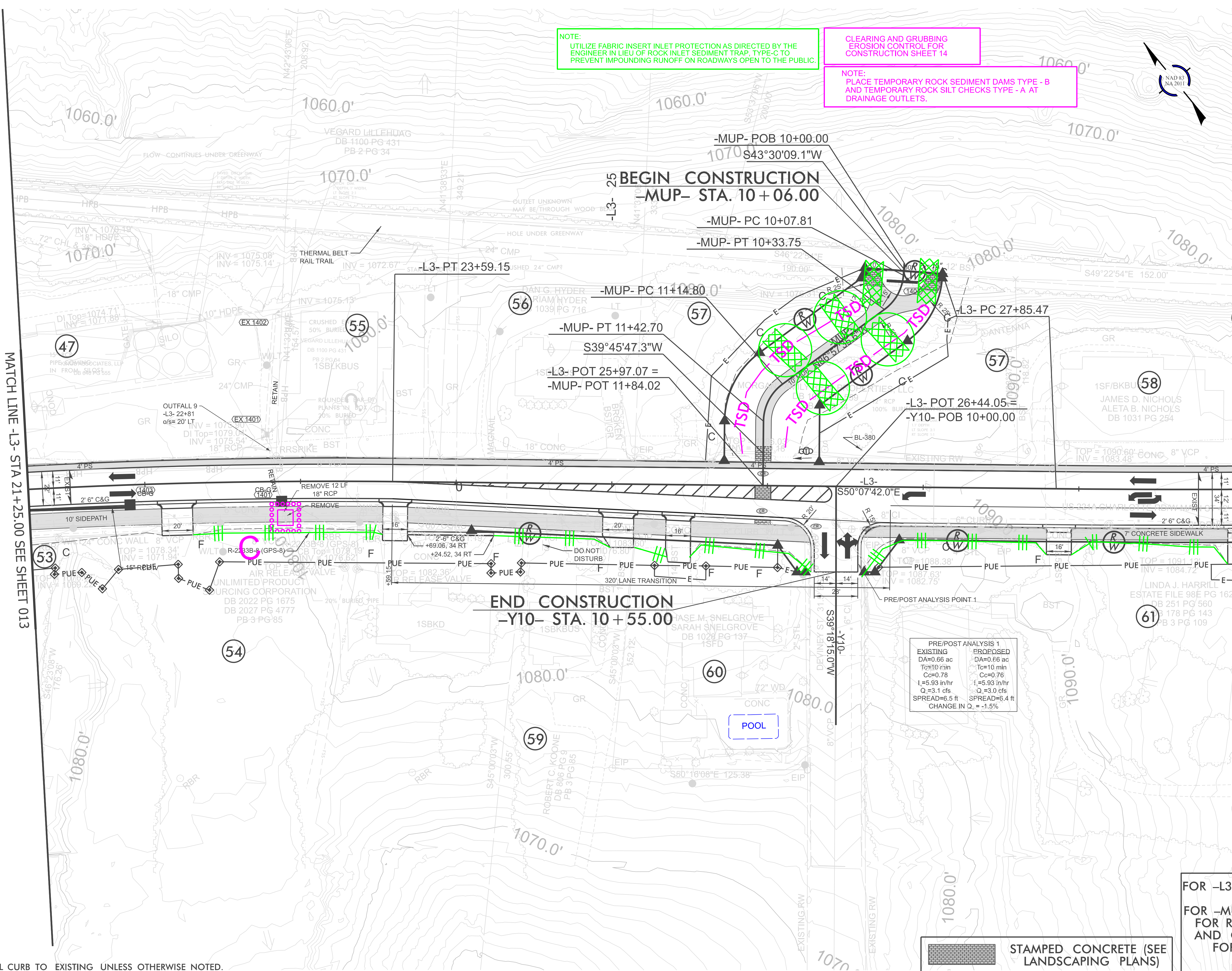
MATCH LINE -L3- STA 21+25.00 SEE SHEET 013

MATCH LINE -L3- STA 29+00.00 SEE SHEET 015

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

STAMPED CONCRETE (SEE
LANDSCAPING PLANS)

FOR -L3- PROFILE, SEE SHEETS 27
AND 28
FOR -MUP- PROFILE, SEE SHEET 32
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-8
FOR LANDSCAPE DETAILS
SEE SHEET L15



PRE/POST ANALYSIS 1	
EXISTING	PROPOSED
DA=0.66 ac	DA=0.66 ac
Tc=10 min	Tc=10 min
Cc=0.78	Cc=0.76
I=5.93 in/hr	I=5.93 in/hr
Q=3.1 cfs	Q=3.0 cfs
SPREAD=6.5 ft	SPREAD=6.4 ft
CHANGE IN Q = -1.5%	

HL-0065

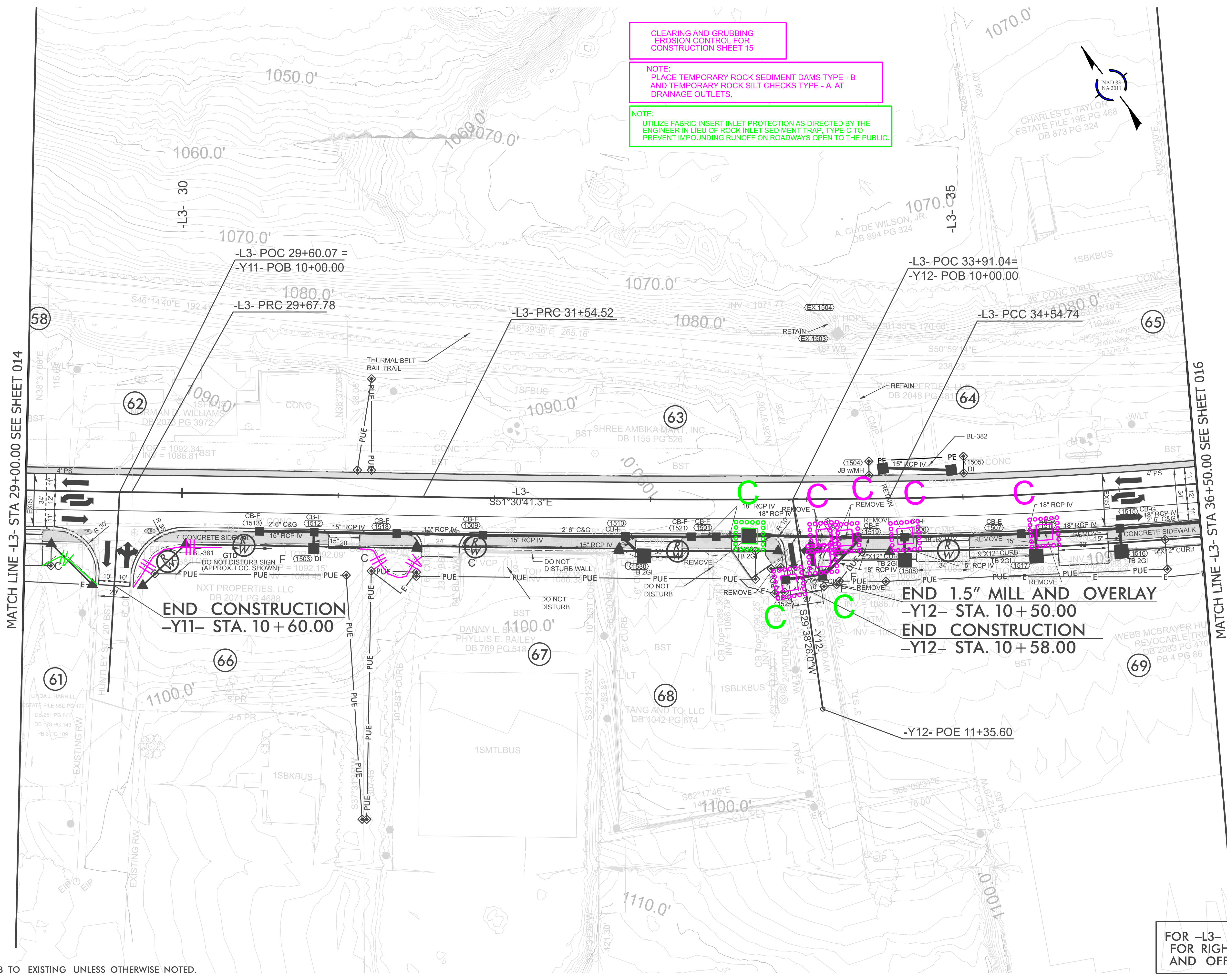
EC-15015

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY


ROADSIDE ENVIRONMENTAL UNIT
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

PREPARED BY
HNTB
HNTB CONSULTING ENGINEERS
1000 SOUTH PARKWAY, SUITE 100
RUTHERFORD, NJ 07070
TEL: 908.382.1000
WWW.HNTB.COM



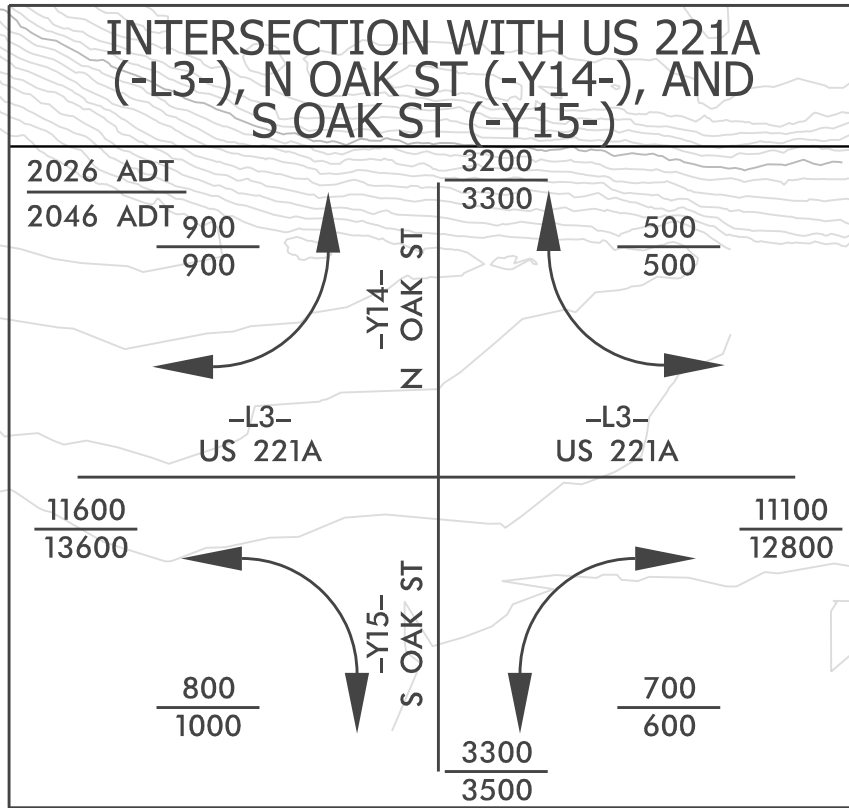
NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

FOR -L3- PROFILE, SEE SHEET 28
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-9



EXISTING SIGNAL

FOR -L3- PROFILE, SEE SHEET 28
FOR -Y14- PROFILE, SEE SHEET 31
FOR -Y15- PROFILE, SEE SHEET 32
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-10
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 2B-23
FOR TRANSIT STOP STATIONS
SEE SHEET 2B-27
FOR LANDSCAPE DETAILS
SEE SHEET L18



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

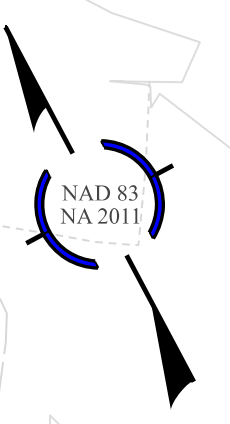
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 16

BEGIN CONSTRUCTION
-Y14- STA. 10 + 37.00

BEGIN 1.5" MILL AND OVERLAY
-Y14- STA. 10 + 50.00

70

72



MATCH LINE -L3- STA 36+50.00 SEE SHEET 015

MATCH LINE -L3- STA 44+00.00 SEE SHEET 017

-L3- PT 39+27.49

-L3- POT 42+34.99 =
-Y14- POT 12+84.47

-L3- POT 42+34.19 =
-Y15- POB 10+00.00

-L3- POT 39+44.32 =
-Y13- POB 10+00.00

END CONSTRUCTION
-Y13- STA. 10 + 50.00

-Y15- PC 11+20.10

END CONSTRUCTION
-Y15- STA. 11 + 70.10

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

HL-0065

EC-16 016

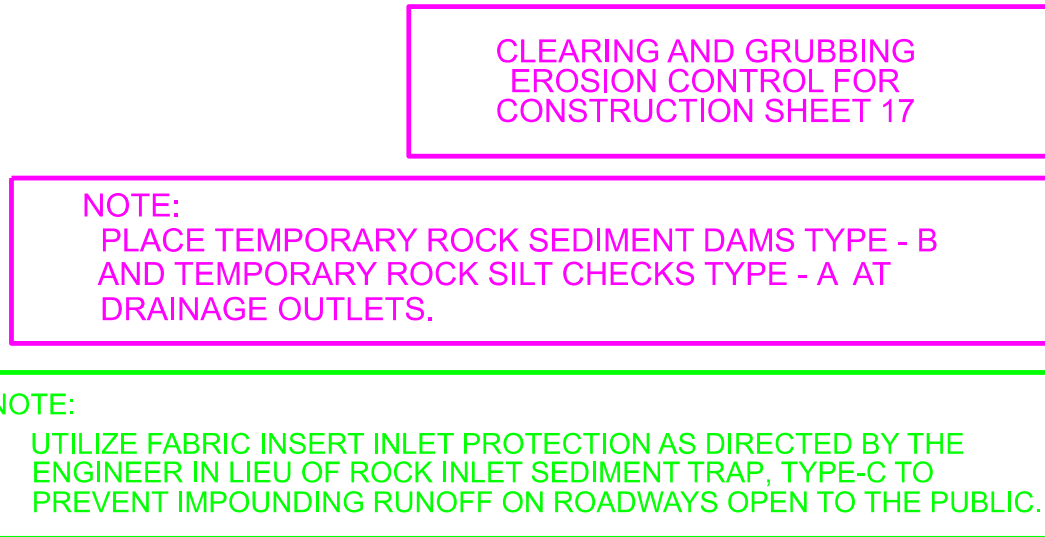
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY

ROADSIDE ENVIRONMENTAL UNIT
ROADWAY DESIGN
ENGINEER

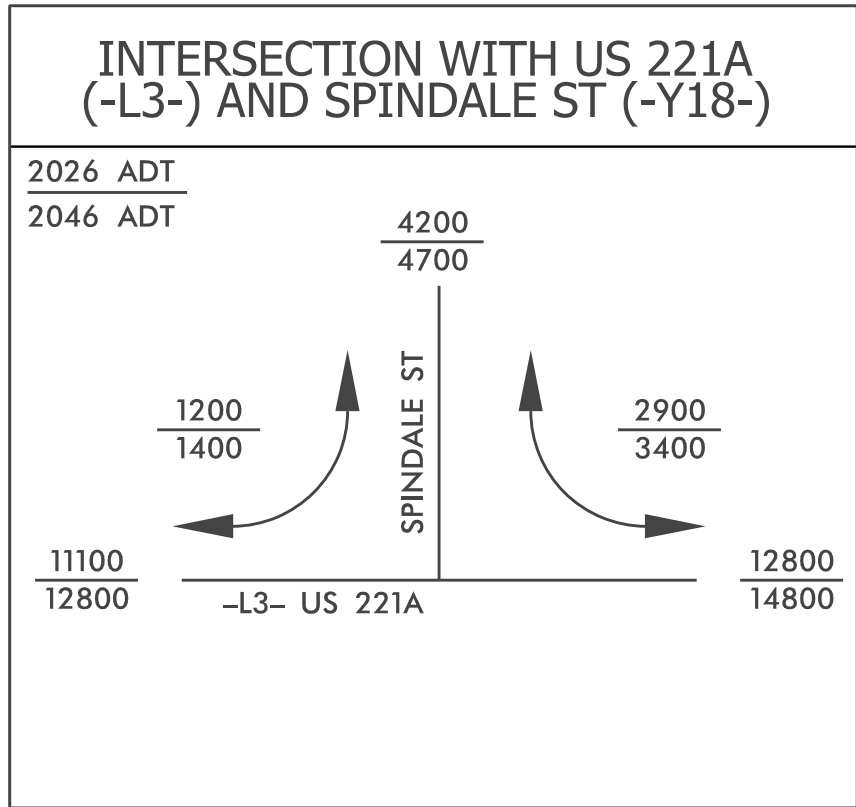
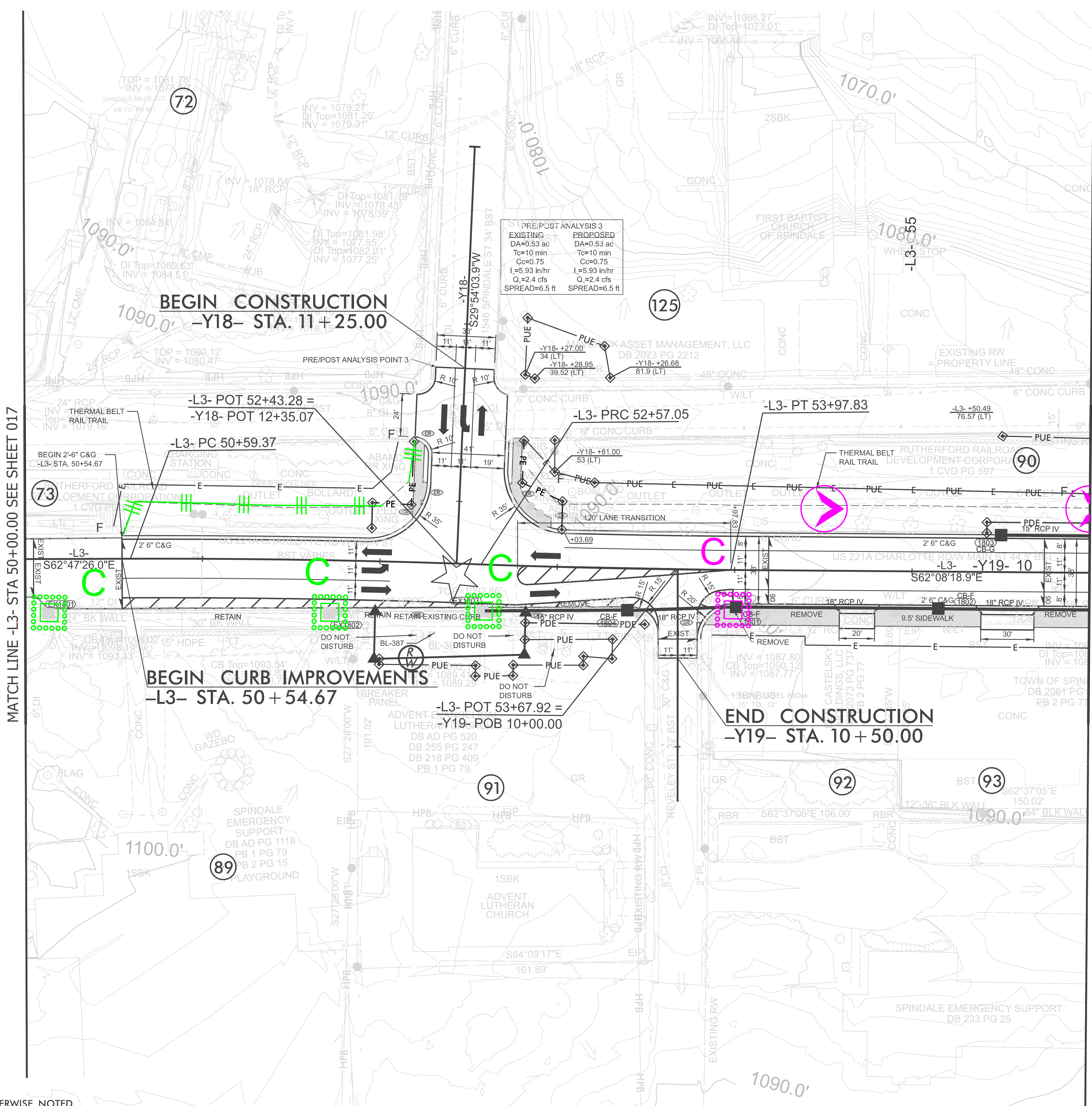
HYDRAULICS
ENGINEER

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FOR -L3- PROFILE, SEE SHEET 28
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-11



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 18

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

★ EXISTING SIGNAL

FOR -L3- PROFILE, SEE SHEETS 28
AND 29
FOR -Y18- PROFILE, SEE SHEET 32
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-12

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.



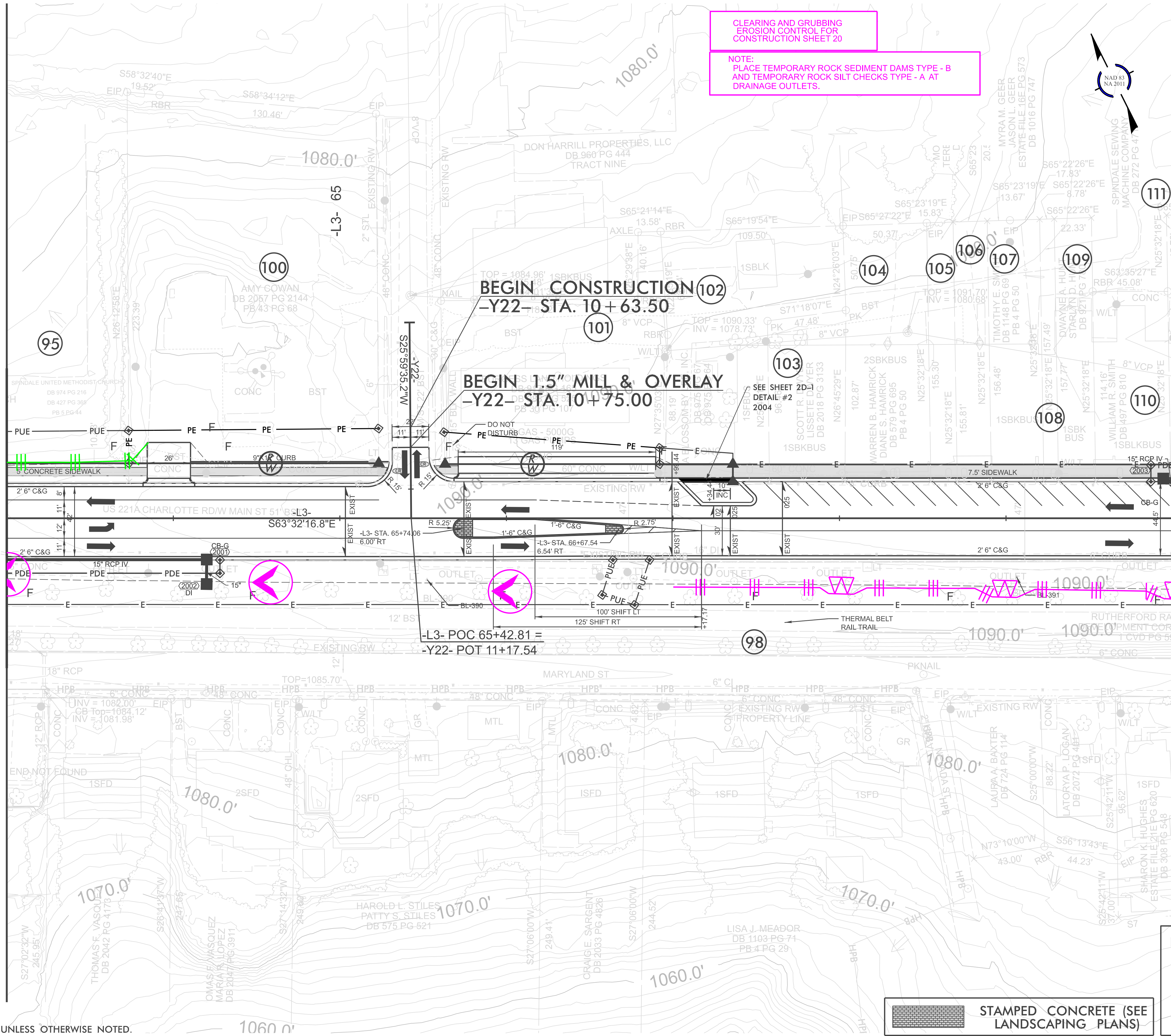
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

FOR -L3- PROFILE, SEE SHEET 29
FOR -Y26- PROFILE, SEE SHEET 29
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-13
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 2B-24

MATCH LINE -L3- STA 63+00.00 SEE SHEET 019



NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 20

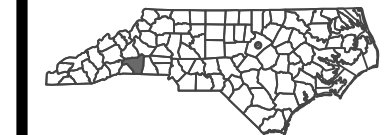
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



HL-0065

EC-20 020

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DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY



ROADSIDE ENVIRONMENTAL UNIT

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

PREPARED BY



REVISIONS

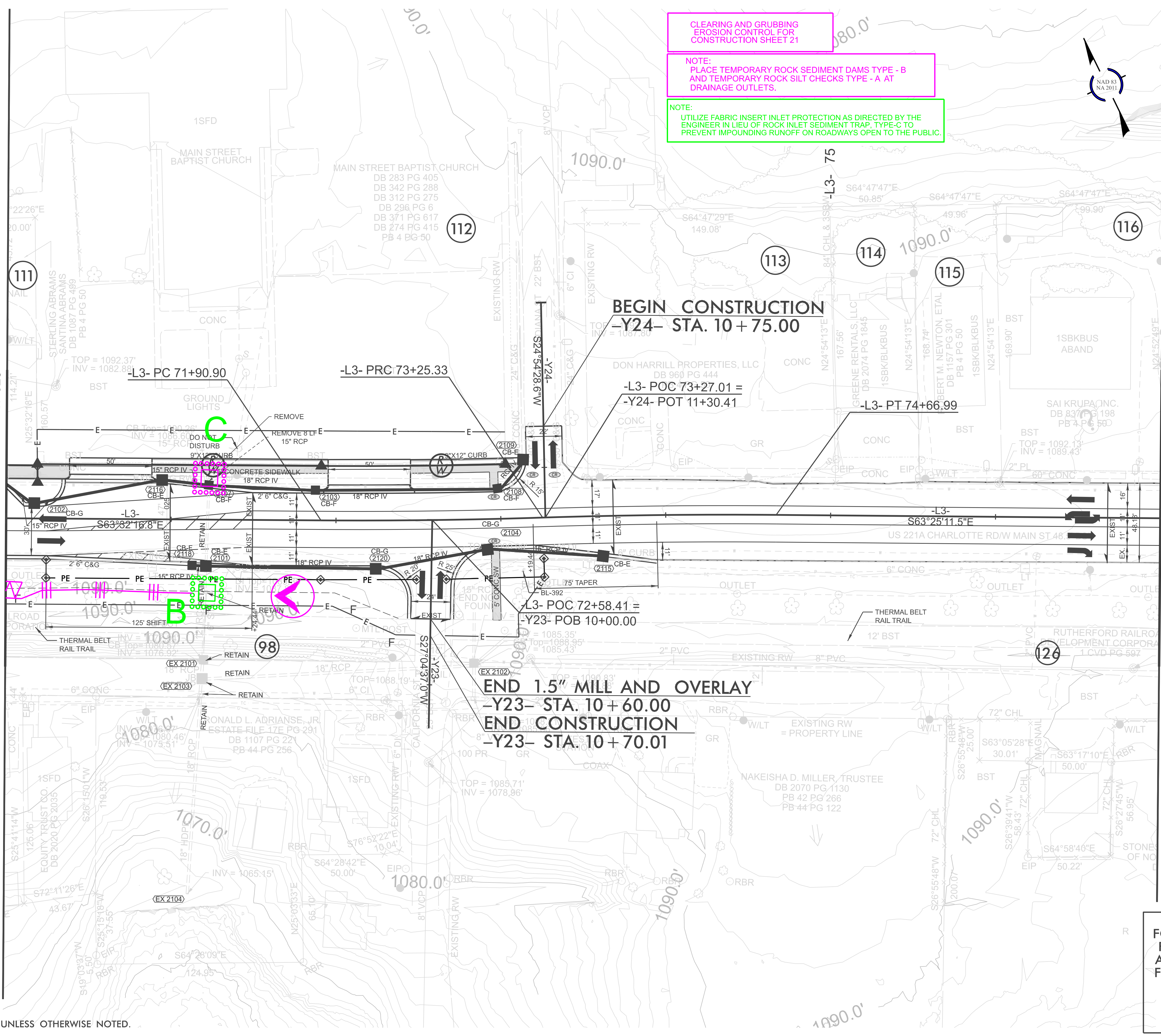
FOR -L3- PROFILE, SEE SHEET 29
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-14
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 2B-25
FOR LANDSCAPE DETAILS
SEE SHEET L20

STAMPED CONCRETE (SEE
LANDSCAPING PLANS)

MATCH LINE -L3- STA 70+00.00 SEE SHEET 020

MATCH LINE -L3- STA 77+00.00 SEE SHEET 022

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 21

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.



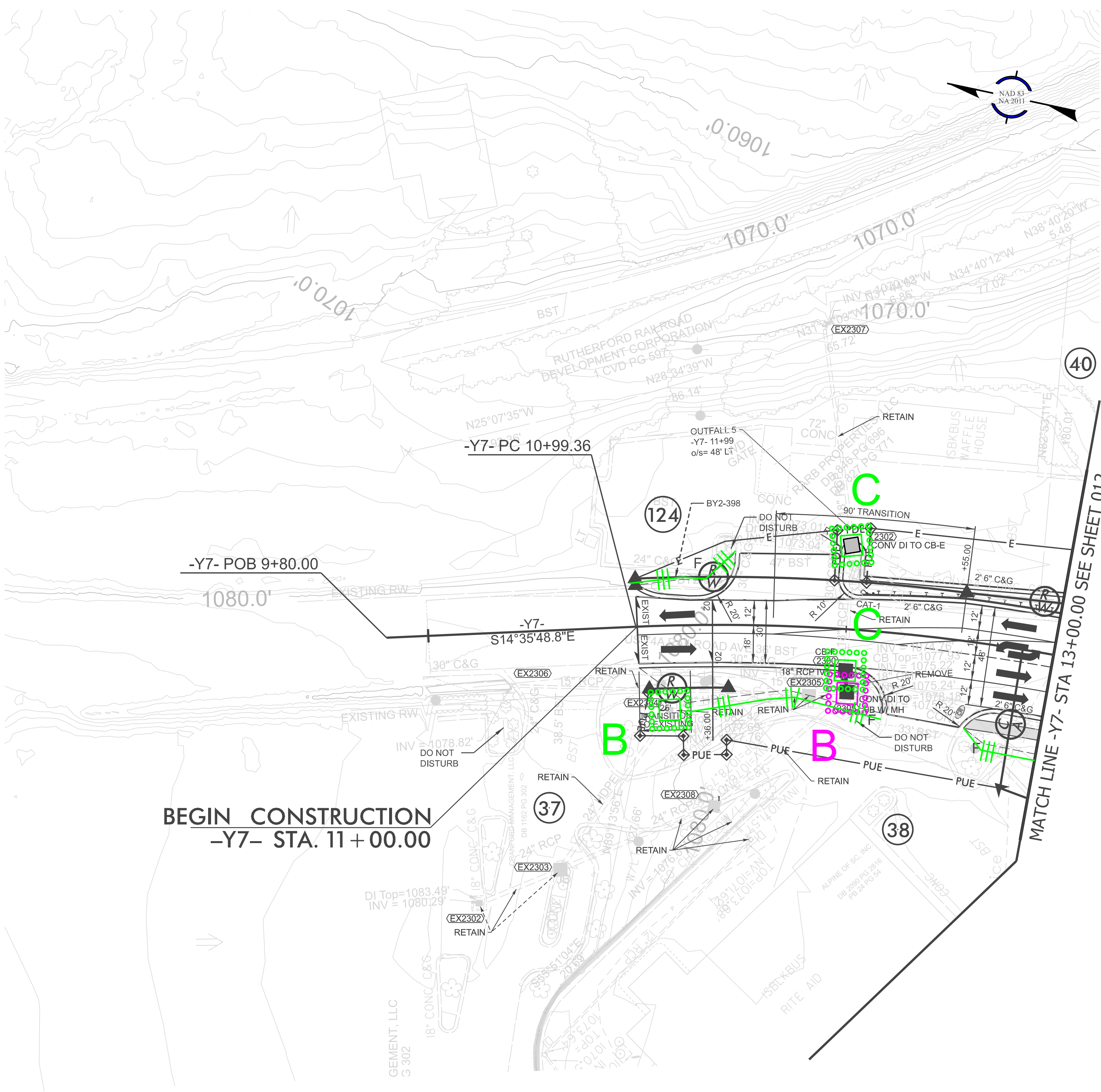
FOR -L3- PROFILE, SEE SHEET 29
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-15
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 2B-26
FOR LANDSCAPE DETAILS
SEE SHEET L22

FOR -L3- PROFILE, SEE SHEETS 29
AND 30
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-16
FOR TRANSIT STOP STATIONS
SEE SHEET 2B-27
FOR LANDSCAPE DETAILS
SEE SHEET L24

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

**END TIP PROJECT HL-0065/
-L3- STA. 81+83.83**

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.



NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 23

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

FOR -Y7- PROFILE, SEE SHEET 31
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-17

HL-0065

EC-23023

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY

ROADSIDE ENVIRONMENTAL UNIT

ROADWAY DESIGN
ENGINEER

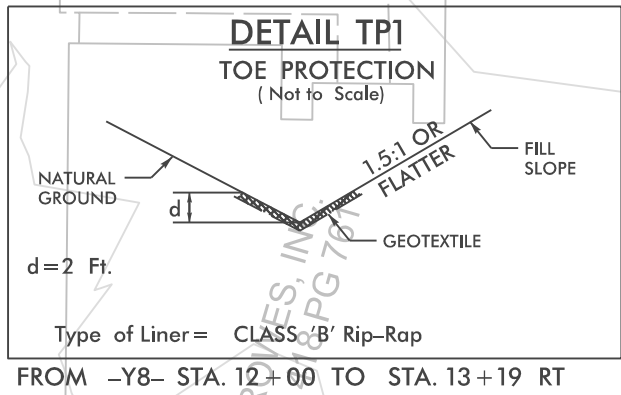
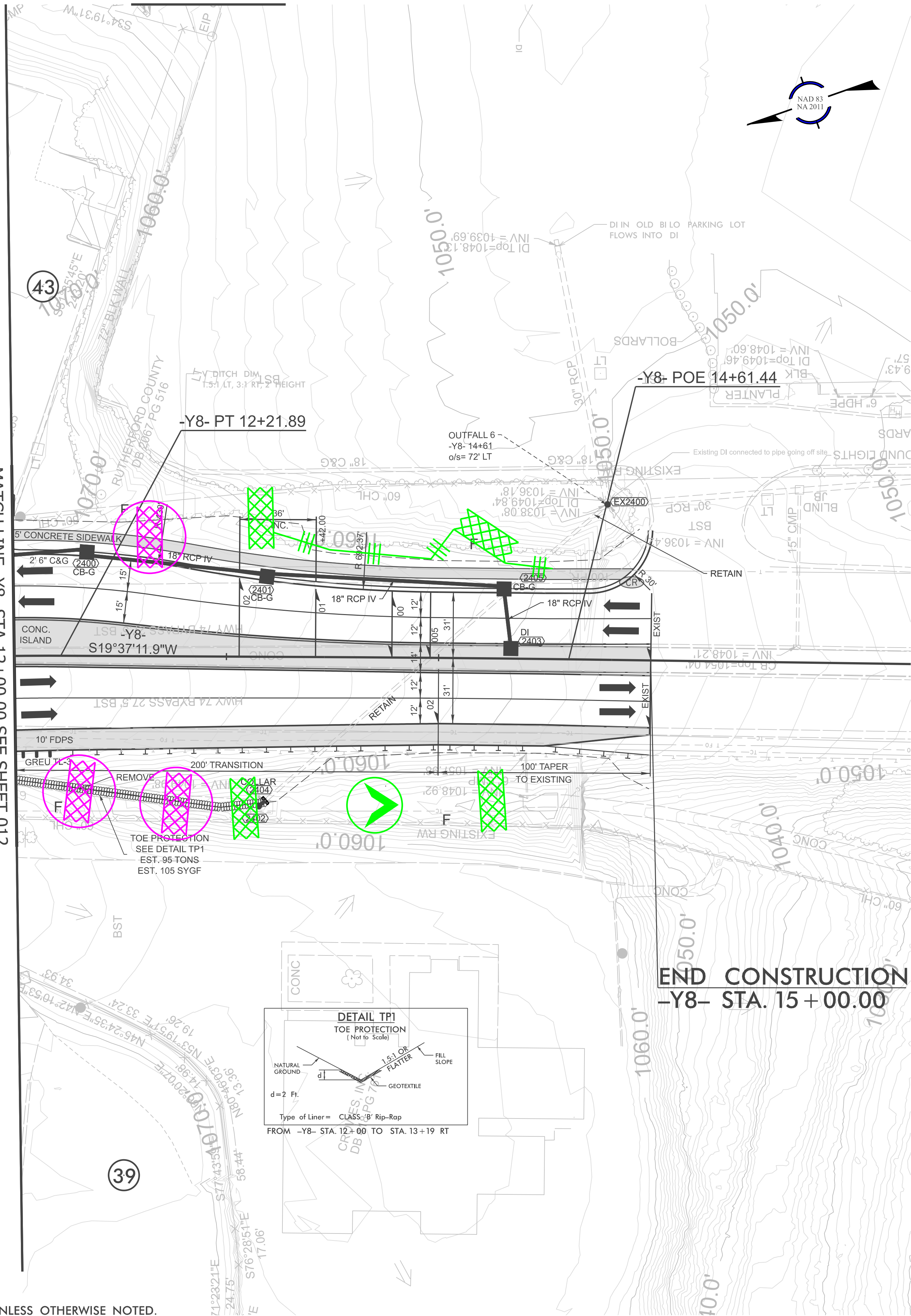
HYDRAULICS
ENGINEER

PREPARED BY

HNTB
2000 BROADWAY, SUITE 2000
NEW YORK, NY 10004
TEL: 212 512 2000
WWW.HNTB.COM

REVISIONS

MATCH LINE -Y8- STA 12+00.00 SEE SHEET 012



Type of Liner = CLASS 'B' Rip-Rap
FROM -Y8- STA. 12+00 TO STA. 13+19 RT

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 24

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

FOR -Y8- PROFILE, SEE SHEET 32
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-20
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 2B-1

HL-0065

EC-24024

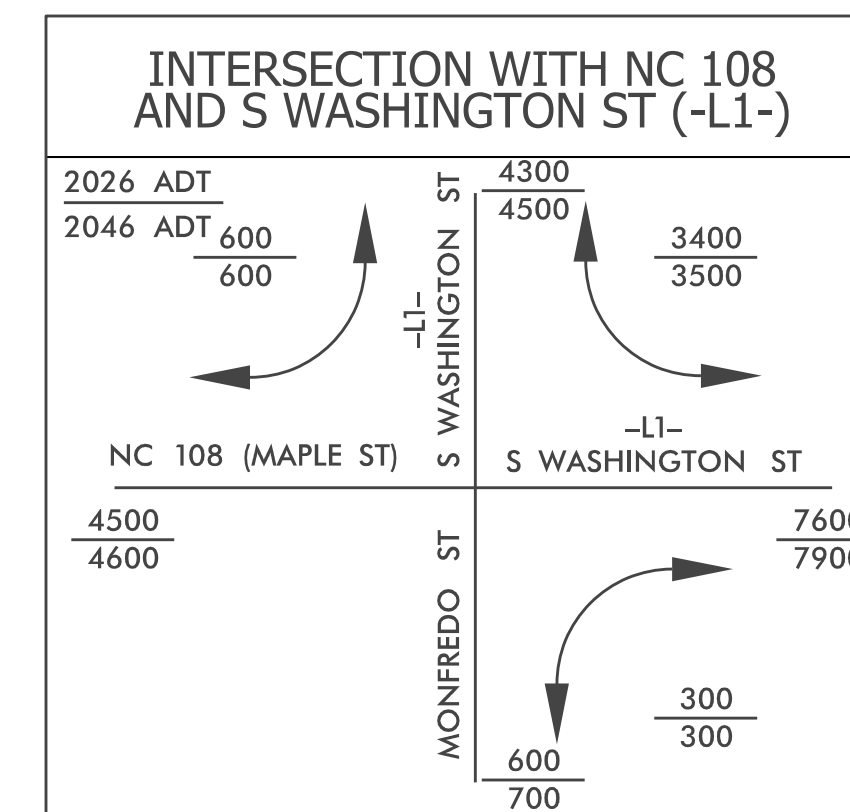
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY

ROADSIDE ENVIRONMENTAL UNIT
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

PREPARED BY
HNTB
HNTB GROUP, INC. 10000 N. CENTRAL EXPRESSWAY, SUITE 100
DALLAS, TEXAS 75243-1000
TEL: 972.346.7000
WWW.HNTB.COM

REVISIONS



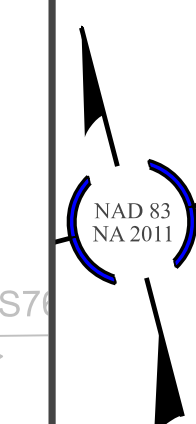
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

★ PROPOSED SIGNAL

FOR -L1- PROFILE, SEE SHEET 25
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-1
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 2B-20
FOR LANDSCAPE DETAILS
SEE SHEET L5

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

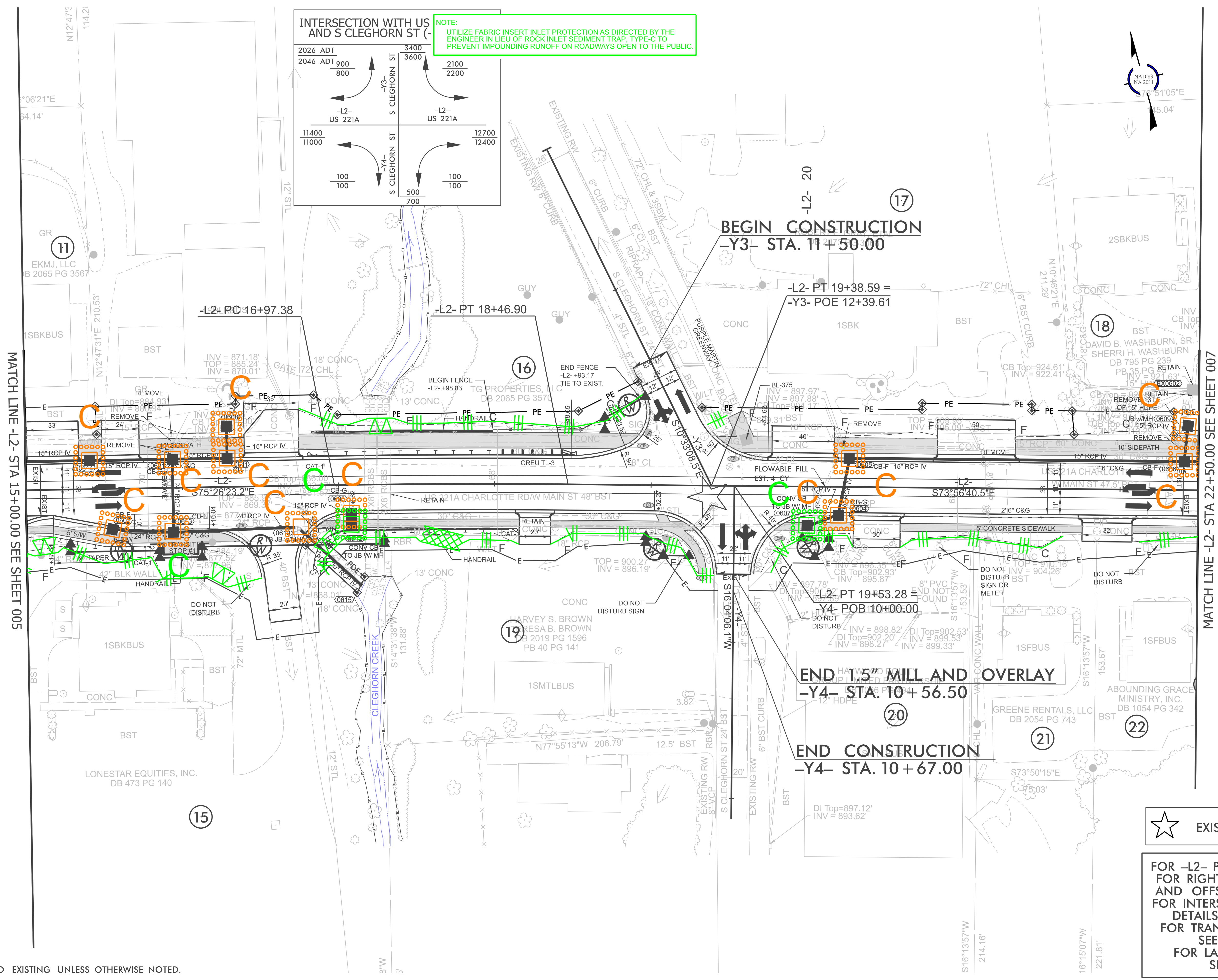
REVISIONS



NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

MATCH LINE -L2- STA 15+00.00 SEE SHEET 006

REVISIONS



NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

★ EXISTING SIGNAL

FOR -L2- PROFILE, SEE SHEET 25
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 28-3
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 28-22
FOR TRANSIT STOP STATIONS
SEE SHEET 28-27
FOR LANDSCAPE DETAILS
SEE SHEET L7

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

For Slopes Excavated Greater Than 10 feet
Install Matting for Erosion Control on
Entire Slope as Work Allows.

HL-0065

EC-28007

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY

ROADSIDE ENVIRONMENTAL UNIT
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

PREPARED BY
HNTB
HNTB CONSULTING, INC.
10000 WILSON ROAD, SUITE 100
DALLAS, TEXAS 75243
TEL: 214.635.1100
WWW.HNTB.COM

MATCH LINE -L2- STA 22+50.00 SEE SHEET 006

MATCH LINE -L2- STA 30+00.00 SEE SHEET 008

END 1.5" MILL AND OVERLAY
END CONSTRUCTION
TIE TO R-2233BB
-L2- STA. 29+21.58

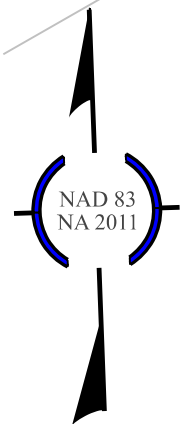
END 1.5" MILL AND OVERLAY
-Y5- STA. 11+00.00

END CONSTRUCTION
-Y5- STA. 11+15.00

FOR -L2- PROFILE, SEE SHEETS 25
AND 26
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-4

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

NOTE:
NO EROSION CONTROL WORK ON PSH 9.
THIS SHEET IS PART OF PROJECT R-2233BB.



MATCH LINE -L2- STA 30+00.00 SEE SHEET 007

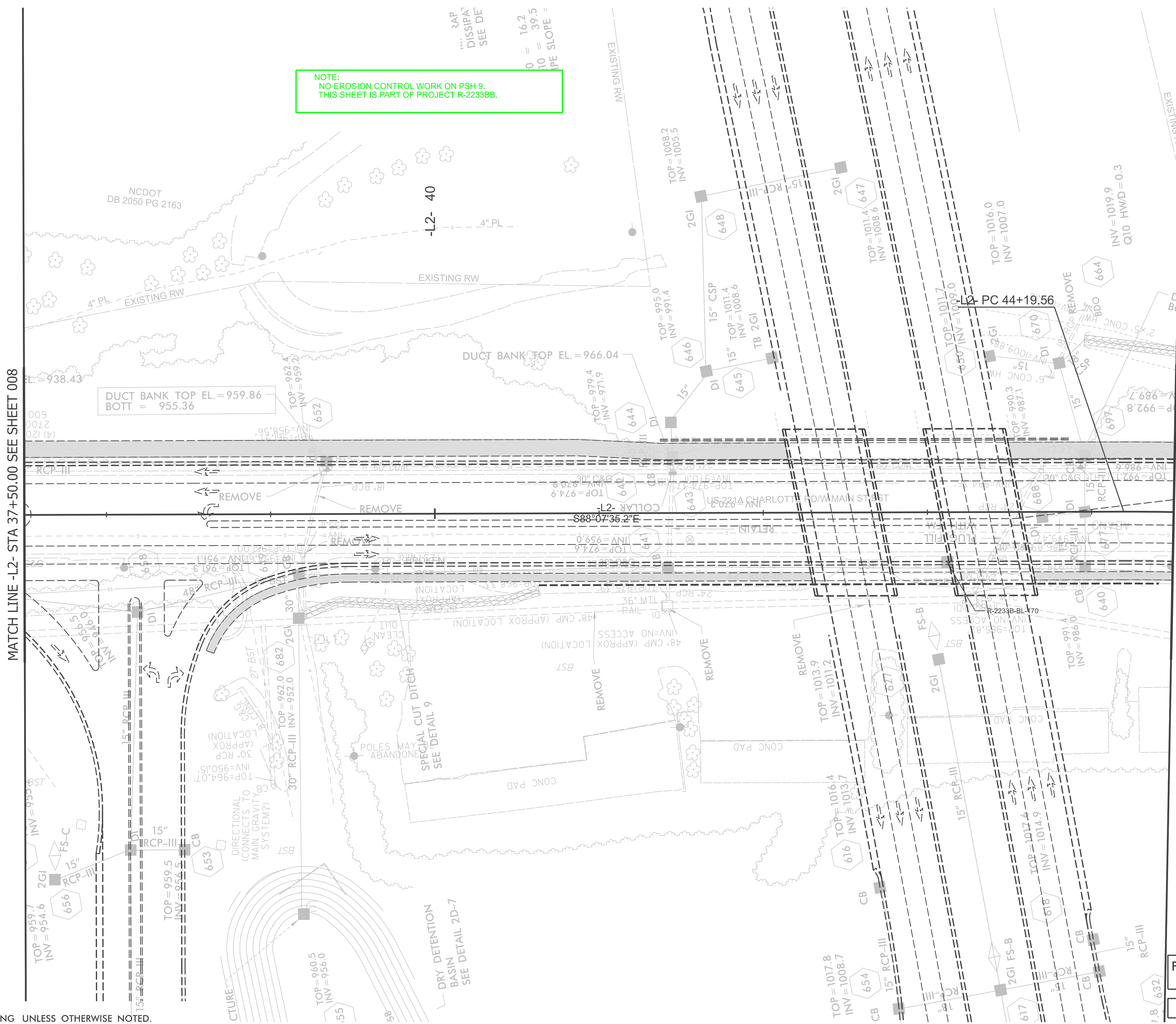
MATCH LINE -L2- STA 37+50.00 SEE SHEET 009

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

PROPOSED WORK TO BE DONE
BY OTHERS

FOR -L2- PROFILE, SEE SHEET 26

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.



PROPOSED WORK TO BE DONE
BY OTHERS

FOR -L2- PROFILE, SEE SHEET 26

REVISIONS

HL-0065

EC-30009

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY

ROADSIDE ENVIRONMENTAL UNIT
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

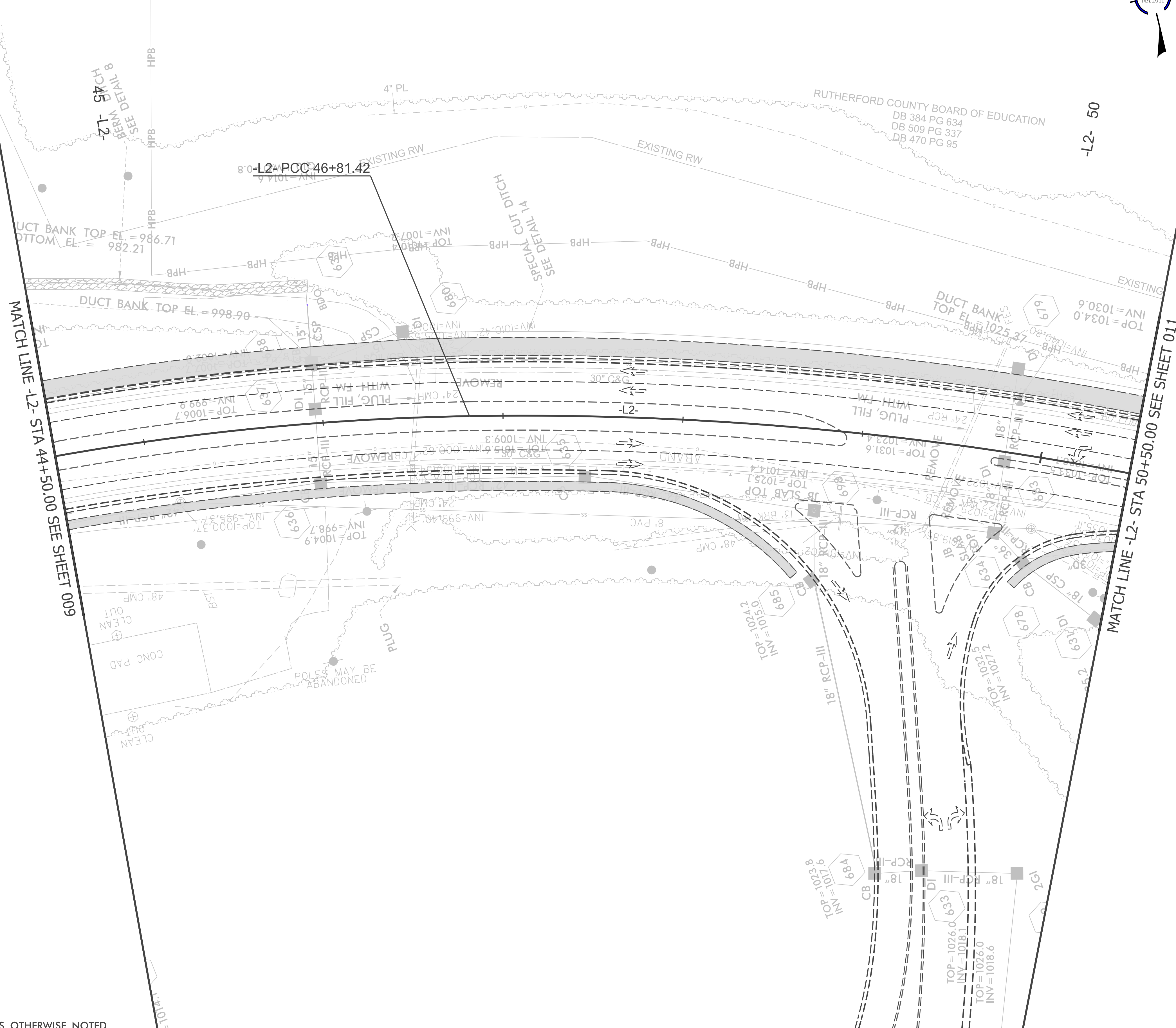
PREPARED BY

HNTB
HNTB CONSULTING ENGINEERS
1000 SOUTH PARKWAY, SUITE 200
RUTHERFORD, NJ 07070
TEL: 908.382.1000
WWW.HNTB.COM



REVISIONS

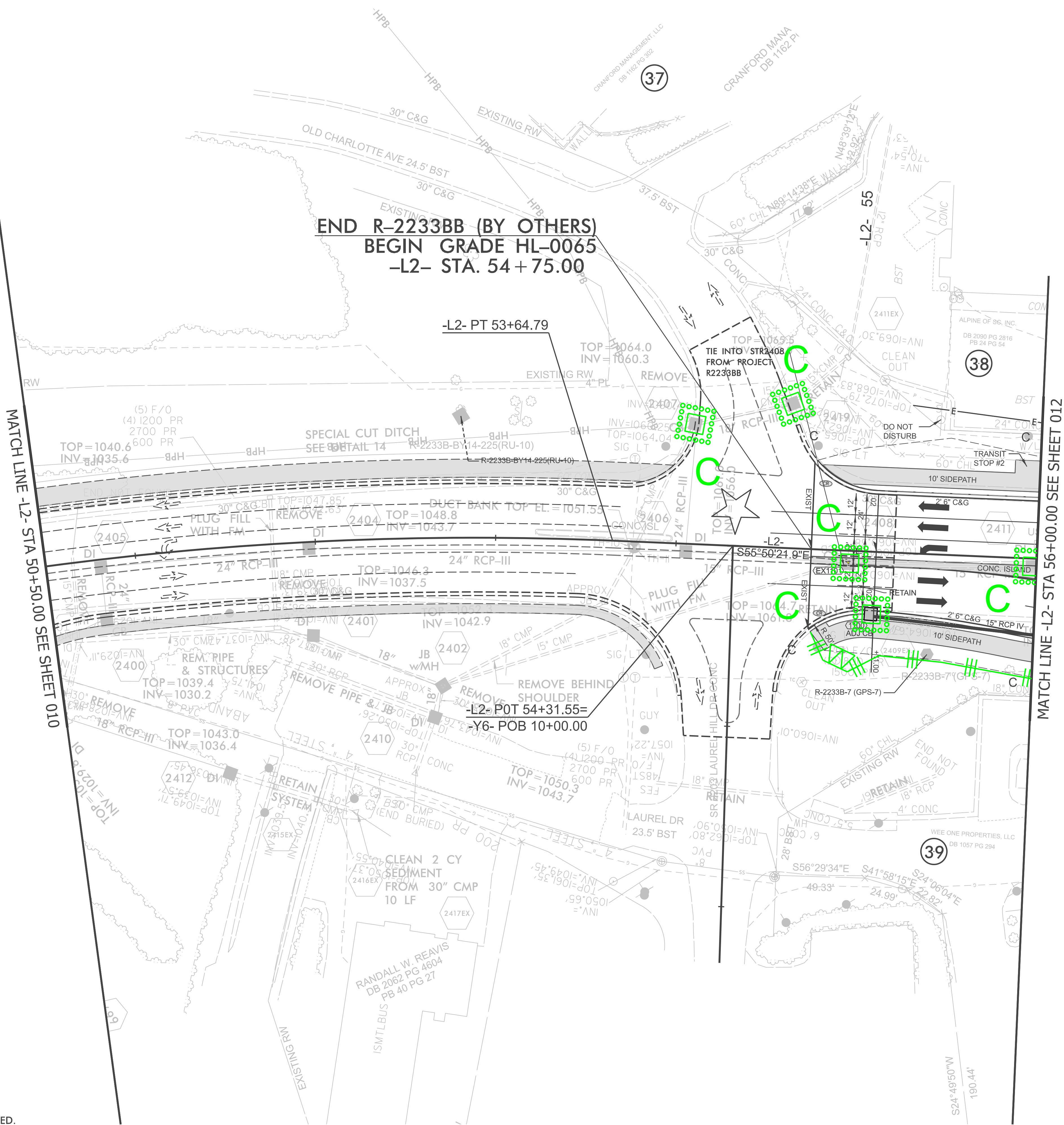
NOTE:
NO EROSION CONTROL WORK ON PSH 10.
THIS SHEET IS PART OF PROJECT R-2233BB.



NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

	PROPOSED WORK TO BE DONE BY OTHERS
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FOR -L2- PROFILE, SEE SHEETS 26
AND 27



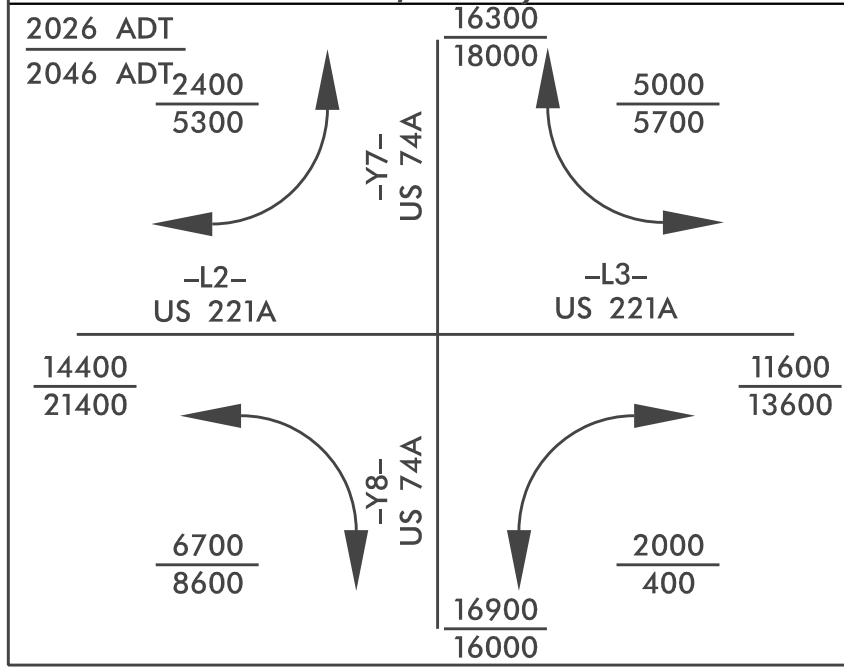
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

★ EXISTING SIGNAL

FOR -L2- PROFILE, SEE SHEET 27
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 28-5
FOR TRANSIT STOP STATIONS
SEE SHEET 28-27

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

ROUNDBABOUT AT INTERSECTION OF
US221A (-L2- / -L3-) AND US 74A (-
Y7- / -Y8-)



NOTE:
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PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.



HL-0065

EC-33 012

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RUTHERFORD COUNTY
ROADSIDE ENVIRONMENTAL UNIT
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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HNTB
HNTB CONSULTING ENGINEERS
1000 SOUTH PARKWAY, SUITE 100
RUTHERFORD, NJ 07070
TEL: 908.382.1000
WWW.HNTB.COM

MATCH LINE -L2- STA 56+00.00 SEE SHEET 011

MATCH LINE -L3- STA 13+75.00 SEE SHEET 013

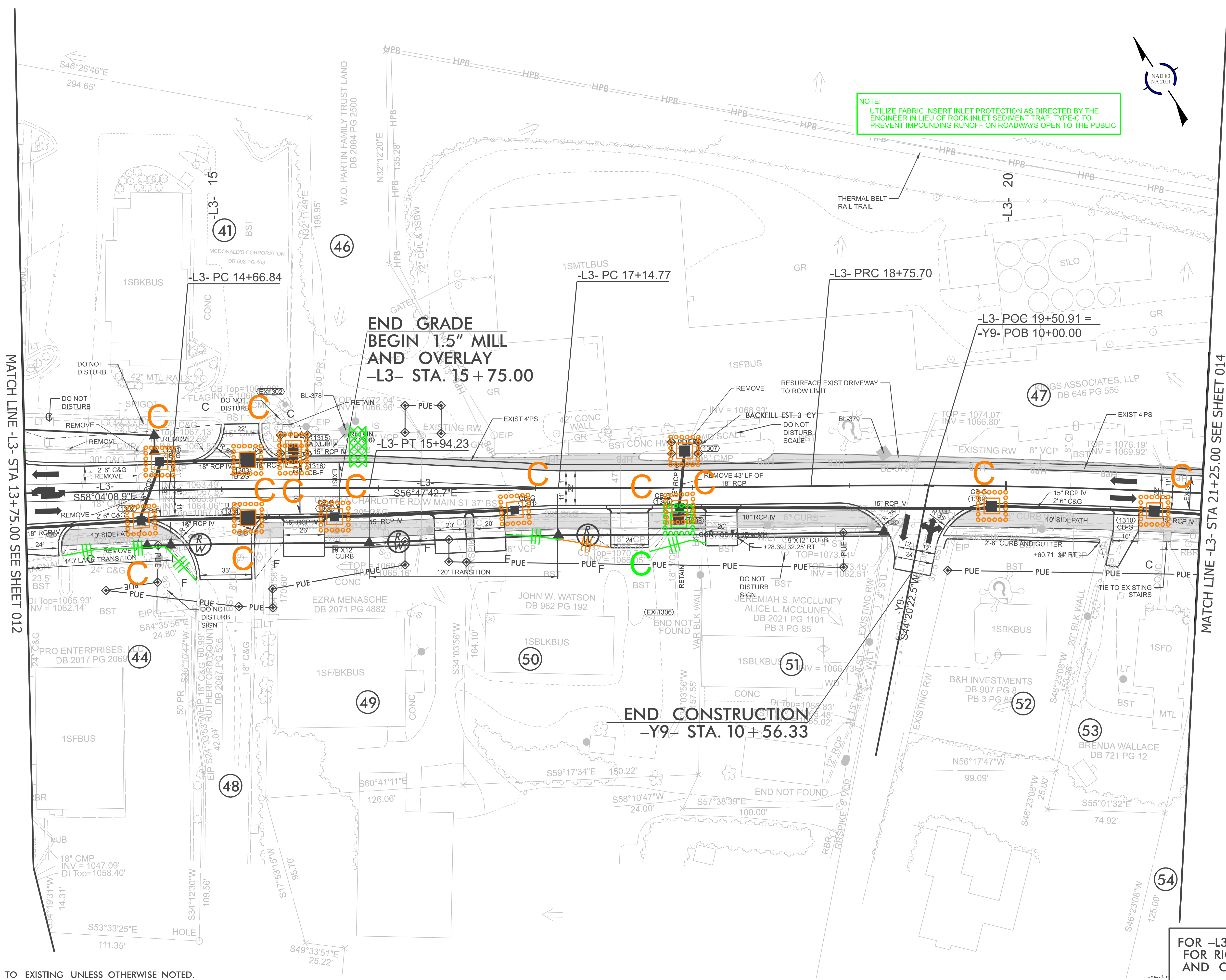
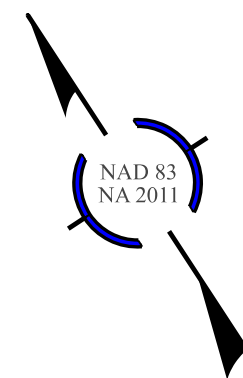
NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

FOR -L2- PROFILE, SEE SHEET 27
FOR -L3- PROFILE, SEE SHEET 27
FOR -RAB- PROFILE, SEE SHEET 30
FOR -Y7- PROFILE, SEE SHEET 31
FOR -Y8- PROFILE, SEE SHEET 31
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-6
FOR INTERSECTION DIMENSION
DETAILS SEE SHEET 2B-19
FOR TRANSIT STOP STATIONS
SEE SHEET 2B-27
FOR LANDSCAPE DETAILS SEE
SHEETS L9, L10, L11, AND L12

REVISIONS



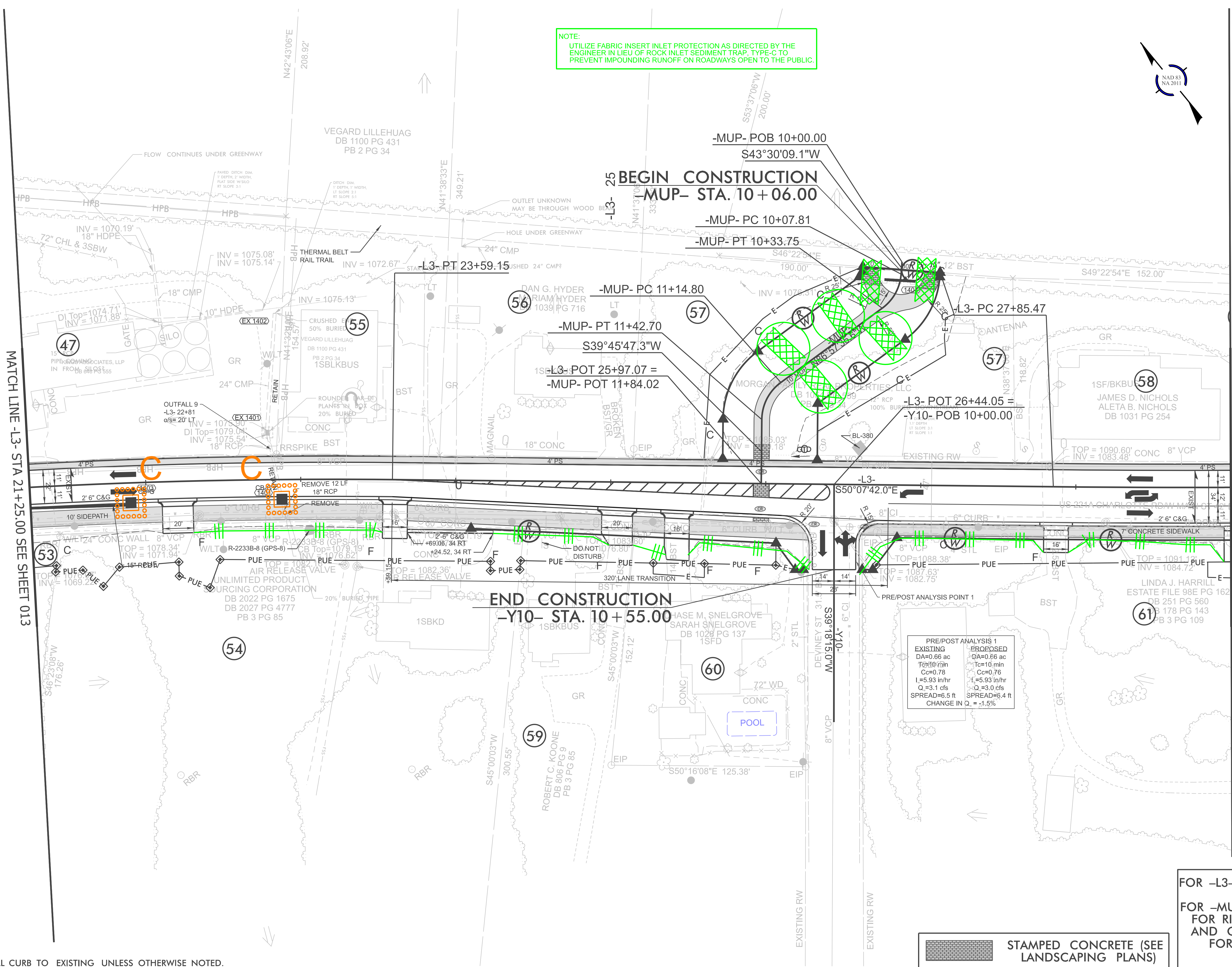
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NOTE:
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FOR -L3- PROFILE, SEE SHEET 27
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-7

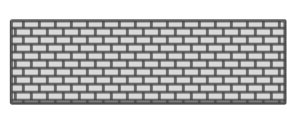
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION AS DIRECTED BY THE
ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C TO
PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.



MATCH LINE -L3- STA 29+00.00 SEE SHEET 015

MATCH LINE -L3- STA 21+25.00 SEE SHEET 013

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.

 STAMPED CONCRETE (SEE
LANDSCAPING PLANS)

FOR -L3- PROFILE, SEE SHEETS 27
AND 28
FOR -MUP- PROFILE, SEE SHEET 32
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-8
FOR LANDSCAPE DETAILS
SEE SHEET L15

FOR -L3- PROFILE, SEE SHEET 28
FOR RIGHT-OF-WAY STATIONS
AND OFFSETS, SEE SHEET 2B-9

NOTE:
TIE ALL CURB TO EXISTING UNLESS OTHERWISE NOTED.