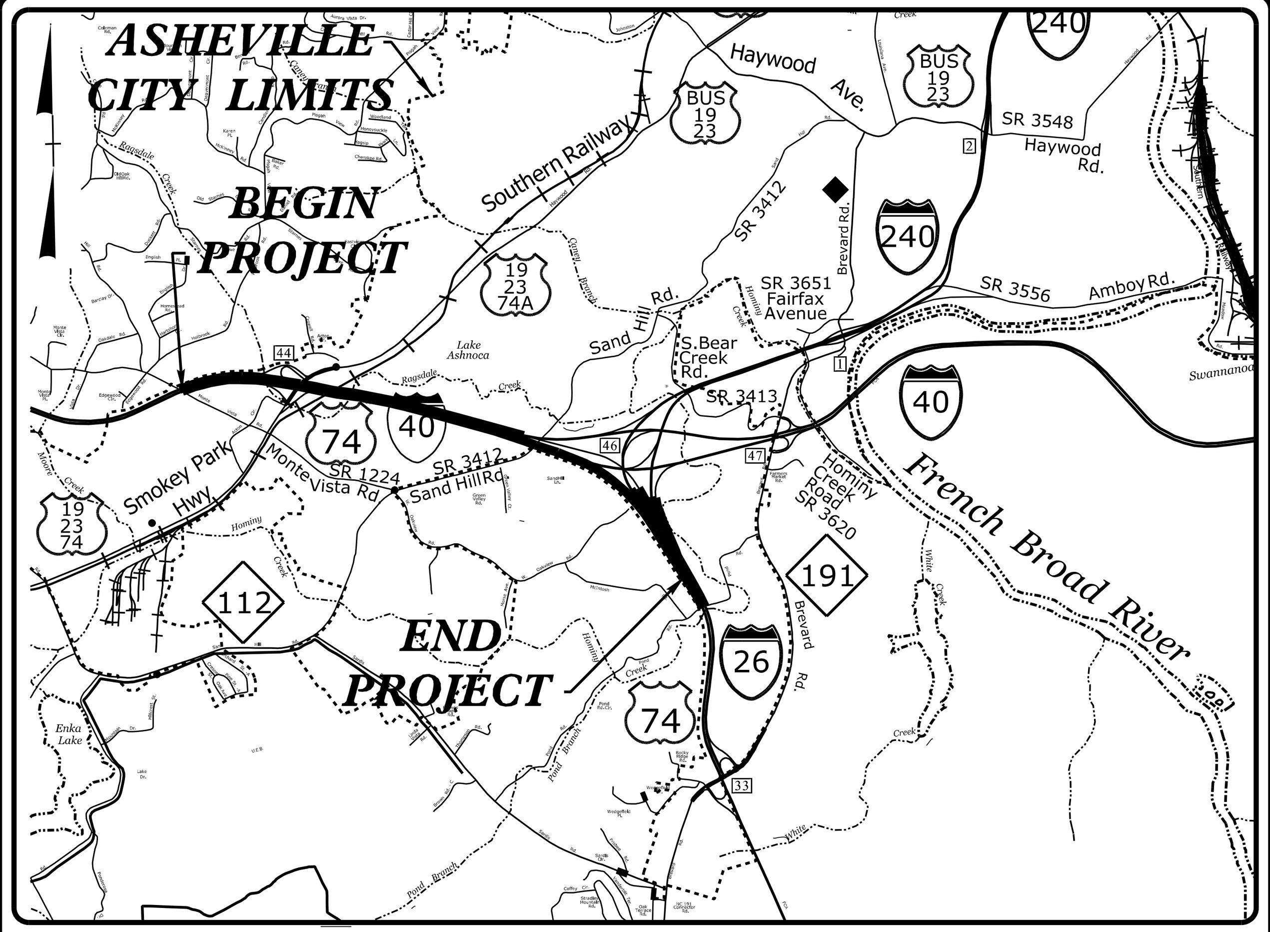
TIP PROJECT: I-2513 AA/AB



VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

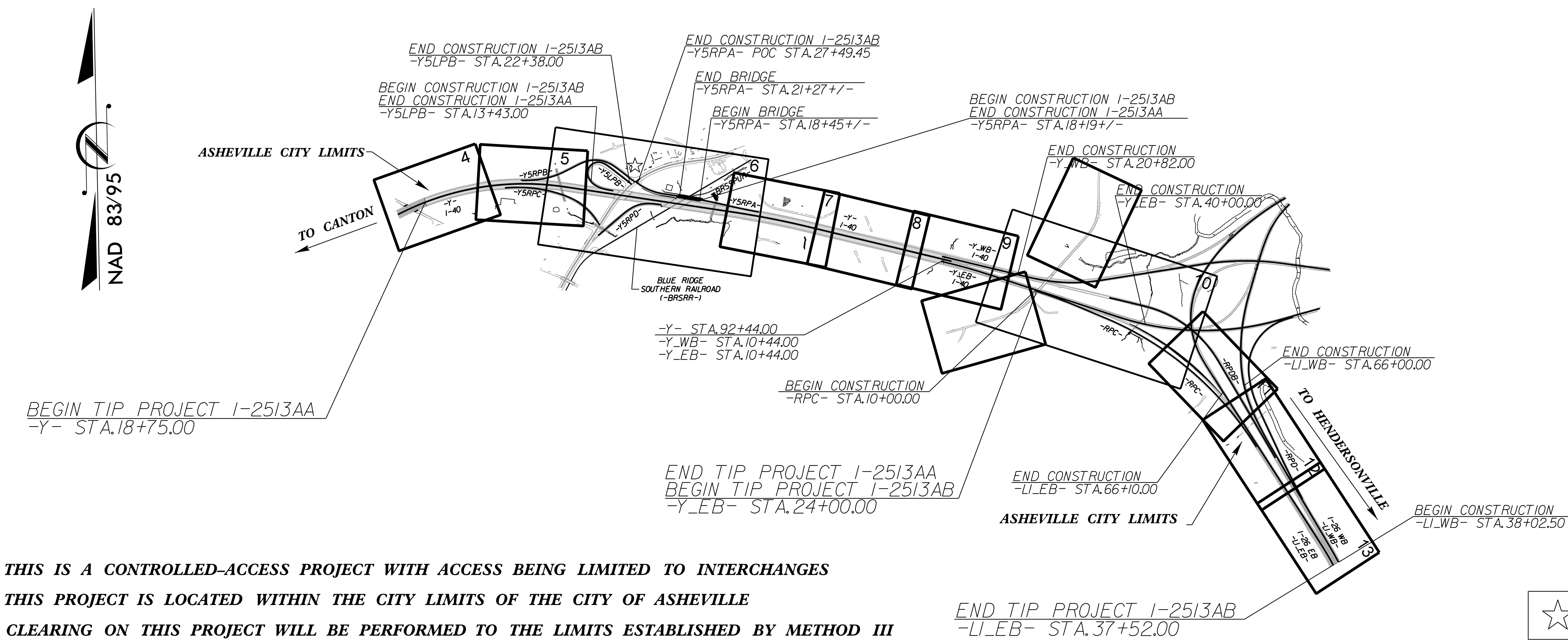
BUNCOMBE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-2513AA/AB	EC-1	28

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
34165.1.11/34165.1.12	0026024 /0026025	P.E.
34165.2.14/34165.2.16	0026024 /0026025	R /W
34165.2.15/34165.2.17	0026024 /0026025	UTIL.
34165.3.6/34165.3.7	0026024 /0026025	CONST.

LOCATION: I-40 FROM EAST OF SR 1224 (MONTE VISTA RD) TO WEST OF SR 3412 (SAND HILL RD) AND I-40 AT I-26 AND US 19/23 INTERCHANGES.

TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES, RETAINING WALLS, SOUND WALLS, AND ITS.



THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES
THIS PROJECT IS LOCATED WITHIN THE CITY LIMITS OF THE CITY OF ASHEVILLE
CLEARING ON THIS PROJECT WILL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III

☆ REVISED SIGNAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:

NV5
8514 McAlpine Park Drive, Suite 135
Charlotte, NC 28211
NC License #F-1333

Designed by:

WILL J. WEATHERSBEE	3161
NAME	LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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	TSD
1630.04	Stilling Basin	
1630.05	Temporary Diversion	TD
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	A
1632.02	Type B	B
1632.03	Type C	C

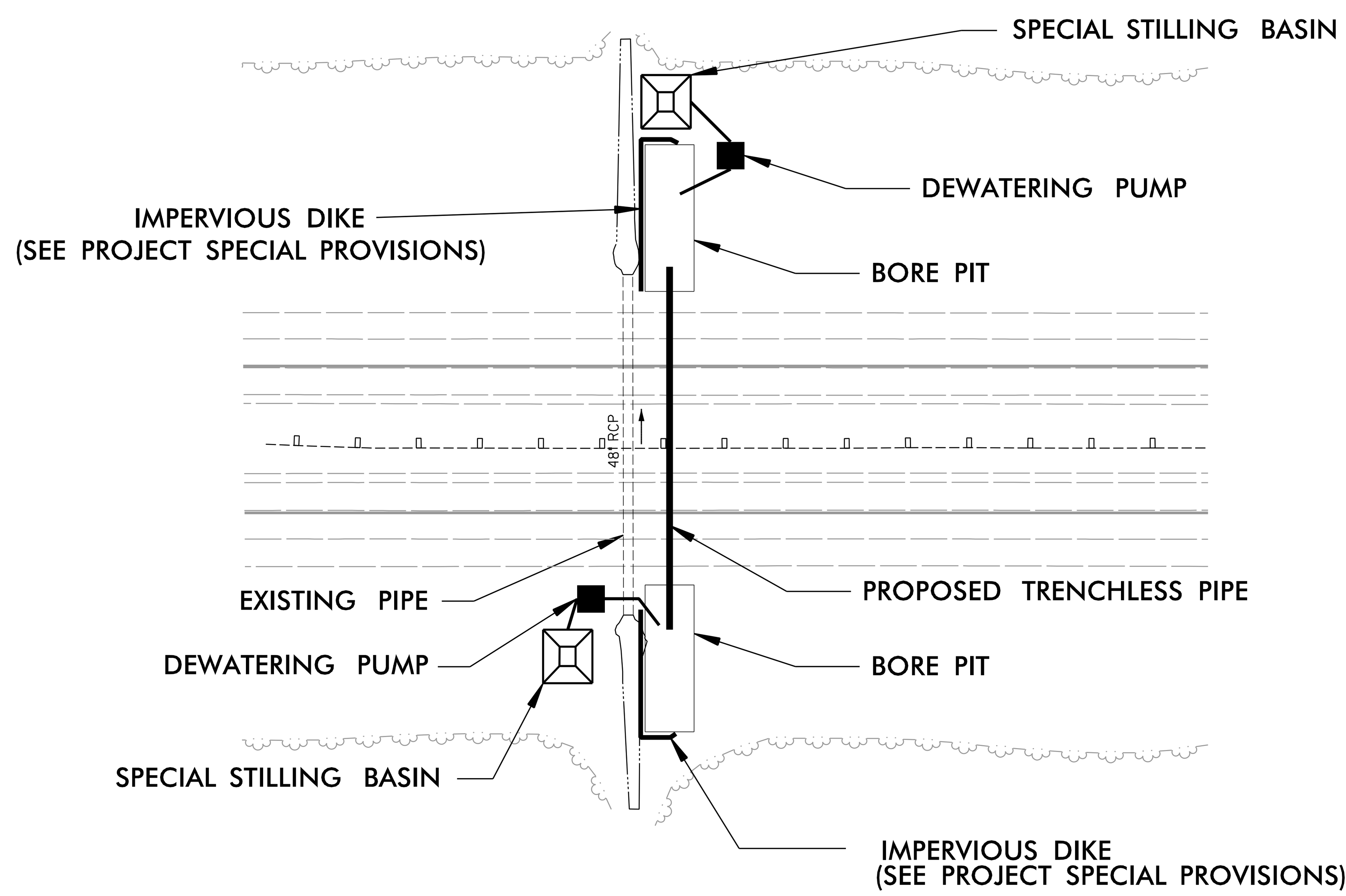
Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet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

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-2A
RW SHEET NO.	

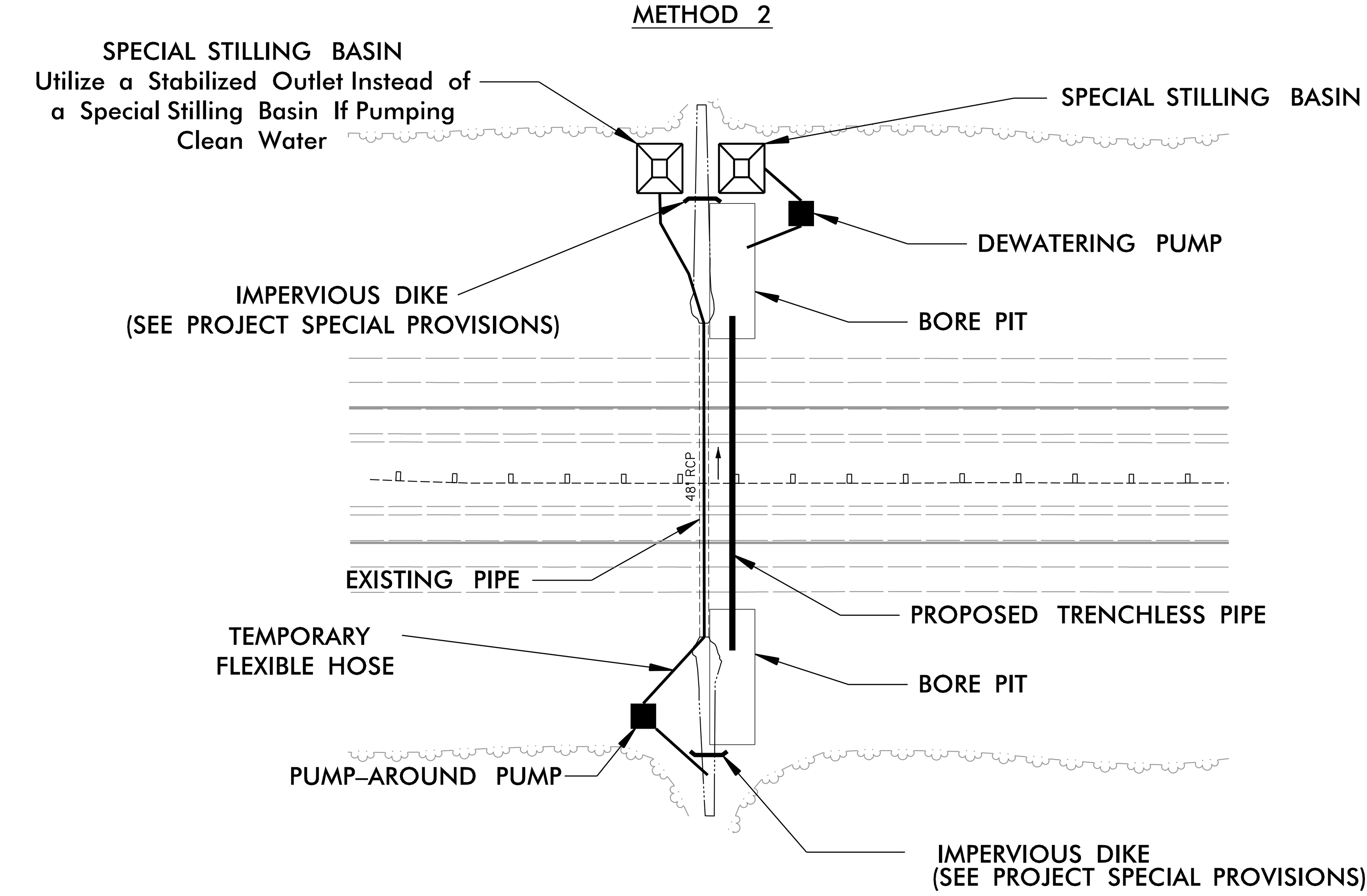
CONSTRUCTION SEQUENCE FOR TRENCHLESS INSTALLATION

NOTES:
1) All excavation shall be performed in only dry or isolated areas of the work zone.
2) Impervious dikes are to be used to isolate work from stream flow when necessary.
3) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
4) Pumps and hoses shall be of sufficient size to dewater the work area.

METHOD 1



METHOD 2



METHOD 1: CONSTRUCTION SEQUENCE FOR TYPICAL WORK AREA

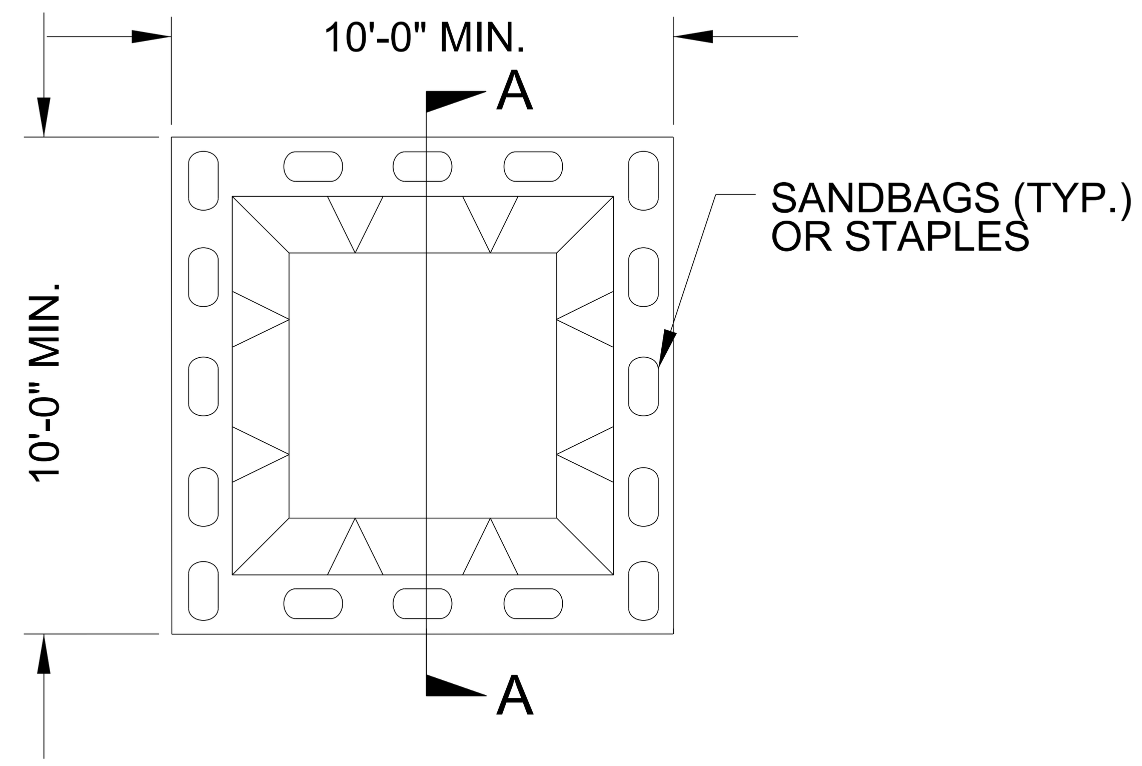
1. INSTALL SPECIAL STILLING BASIN(S) AS NEEDED.
2. PLACE UPSTREAM IMPERVIOUS DIKE AND CONSTRUCT BORE PIT FOR TRENCHLESS INSTALLATION. INSTALL PUMPING APPARATUS AND DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
3. PLACE DOWNSTREAM IMPERVIOUS DIKE AND CONSTRUCT BORE PIT FOR TRENCHLESS INSTALLATION. INSTALL PUMPING APPARATUS AND DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
4. INSTALL TRENCHLESS PIPE IN ACCORDANCE WITH THE PLANS.
5. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
6. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.

METHOD 2: CONSTRUCTION SEQUENCE FOR TYPICAL WORK AREA

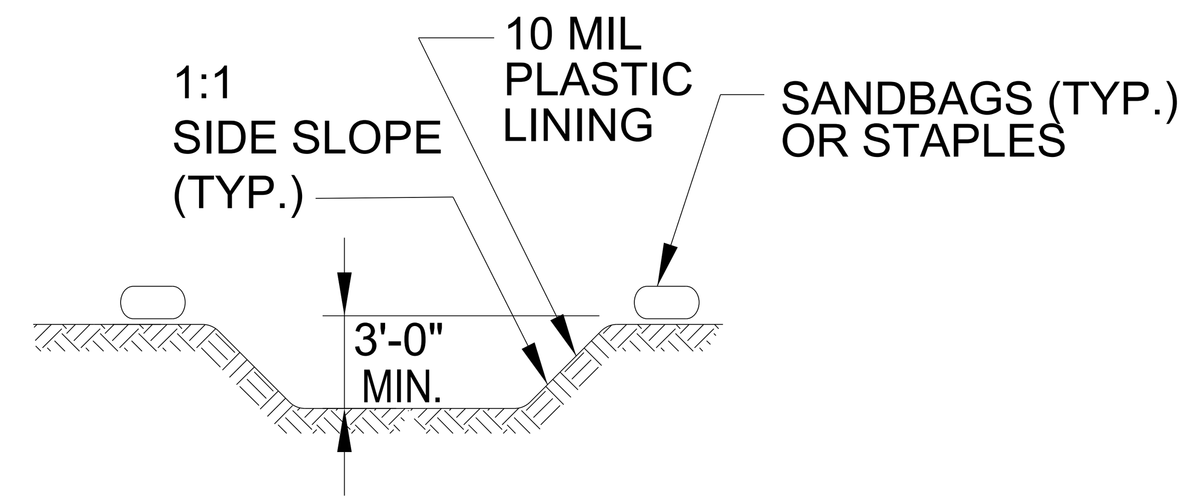
1. INSTALL SPECIAL STILLING BASIN(S).
2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
3. PLACE UPSTREAM IMPERVIOUS DIKE AND CONSTRUCT BORE PIT FOR TRENCHLESS INSTALLATION.
4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
5. BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
6. INSTALL TRENCHLESS PIPE IN ACCORDANCE WITH THE PLANS.
7. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
8. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-2B
R/W SHEET NO.	

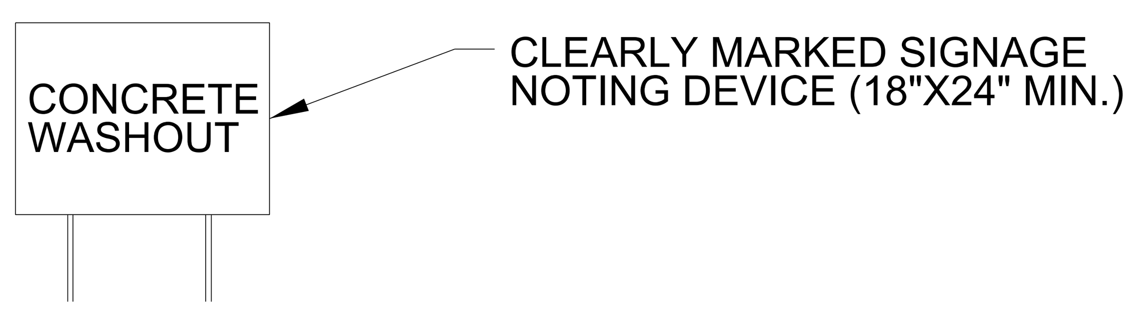
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



PLAN



SECTION A-A



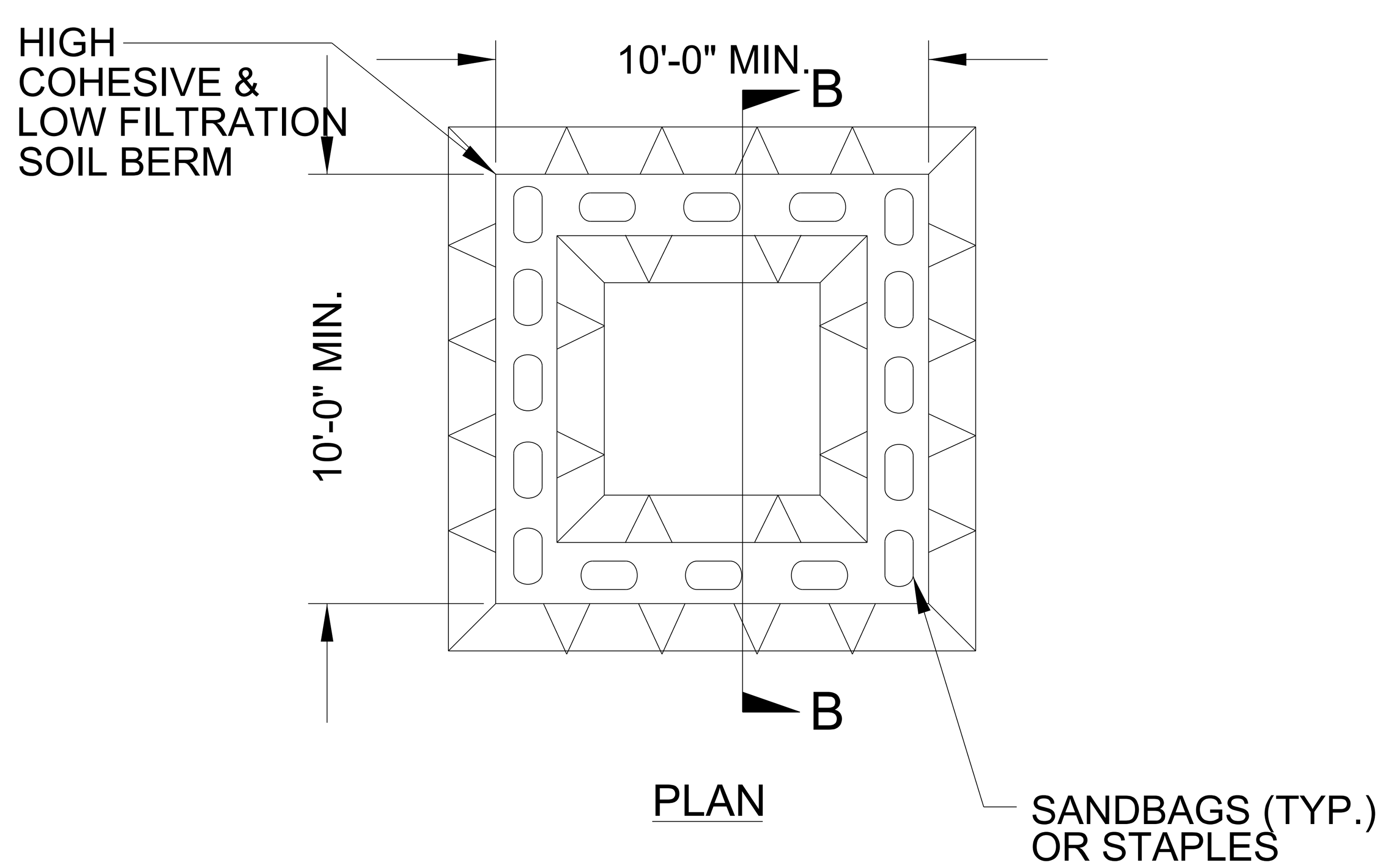
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

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.

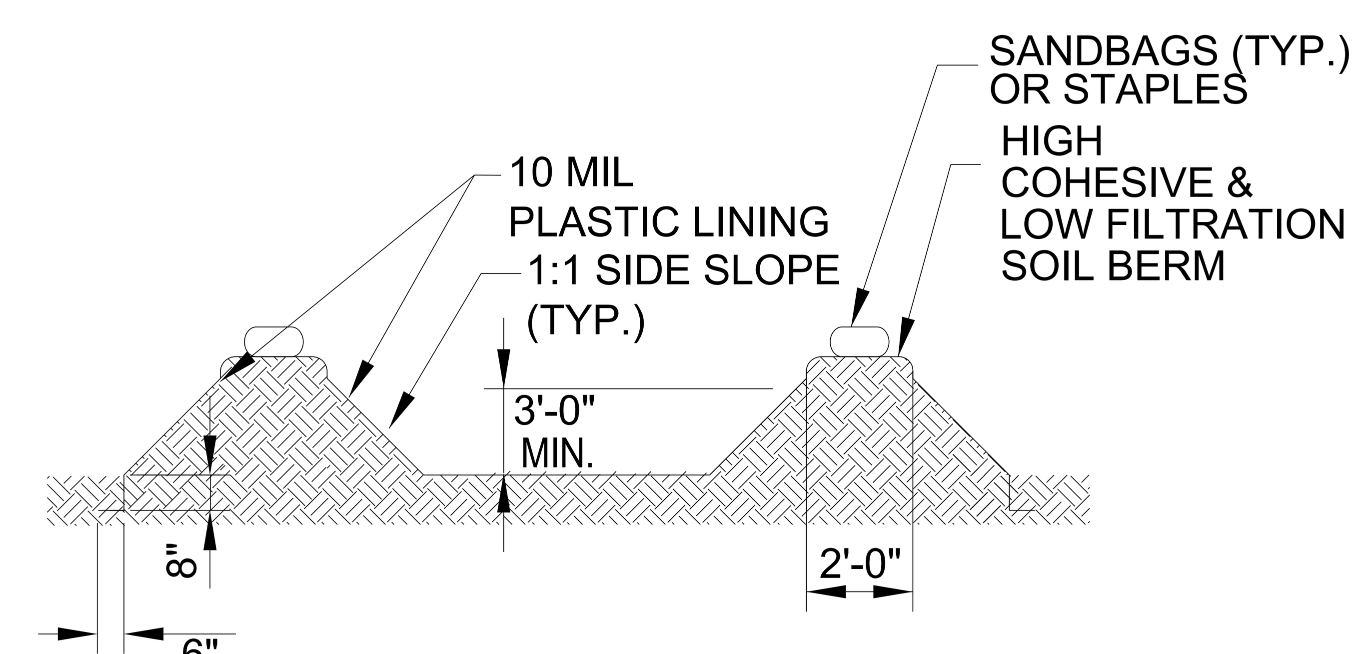
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE

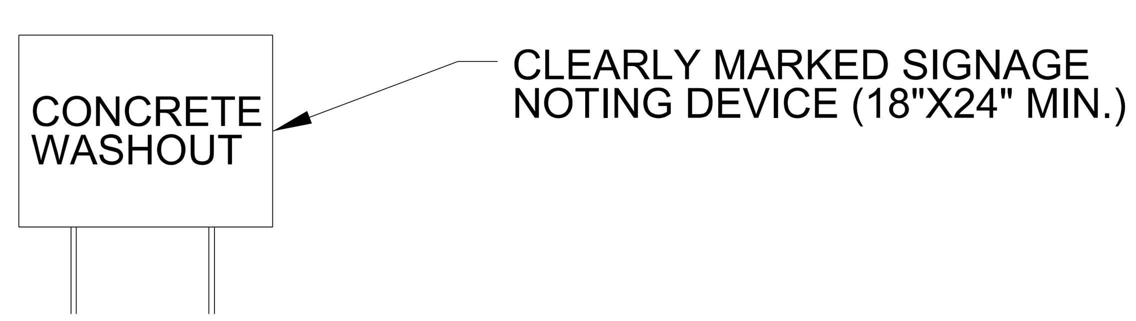
NOT TO SCALE



PLAN



SECTION B-B



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 CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-3
R/W SHEET NO.	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

DITCH MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
6	Y5RPA	23+50	26+00	RT	175
6	Y	56+90	58+00	LT	35
6	Y	59+35	60+00	LT	50
6	Y	51+04		RT	90
7	Y	66+00	69+00	RT	90
7	Y	67+49		LT	195
8	Y	75+25	76+55	RT	25
9	Y	88+00	88+55	RT	25
9	Y	90+50	92+85	LT	70
10	RPC	31+00	32+00	RT	35
10	RPC	24+45	26+50	RT	285
10	Y-EB	39+00	40+00	RT	70
10	RPC	25+50	32+50	LT	455
11	RPC	32+00	33+50	RT	50
11	RPC	34+43	42+50	LT	475
11	RPC	36+27	37+40	RT	180
12	L1-EB	59+75	60+50	LT	55
12	L1-EB	52+13	52+98	LT	15
12	L1-WB	51+00	53+70	RT	185
				SUBTOTAL	2560

SLOPE MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
6	Y5RPA	23+70	26+50	RT	1100
6	Y	57+00	62+25	LT	2830
7	Y	71+00	74+00	RT	1400
8	Y	77+00	85+50	LT	4336
8	Y	78+00	86+50	RT	5633
9	Y	90+80	94+50	LT	2180
9	Y	90+60	93+00	RT	1450
9	Y-WB	13+00	18+50	LT	3254
10	RPC	22+50	31+00	RT	3074
11	RPC	31+00	41+50	RT	7651
12	L1-EB	53+50	57+50	LT	2471
13	L1-EB	46+00	52+00	RT	6030
13	L1-WB	47+00	51+00	RT	1965
				SUBTOTAL	43374
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					86326
				TOTAL	132260
				SAY	132300

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-3A
R/W SHEET NO.	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

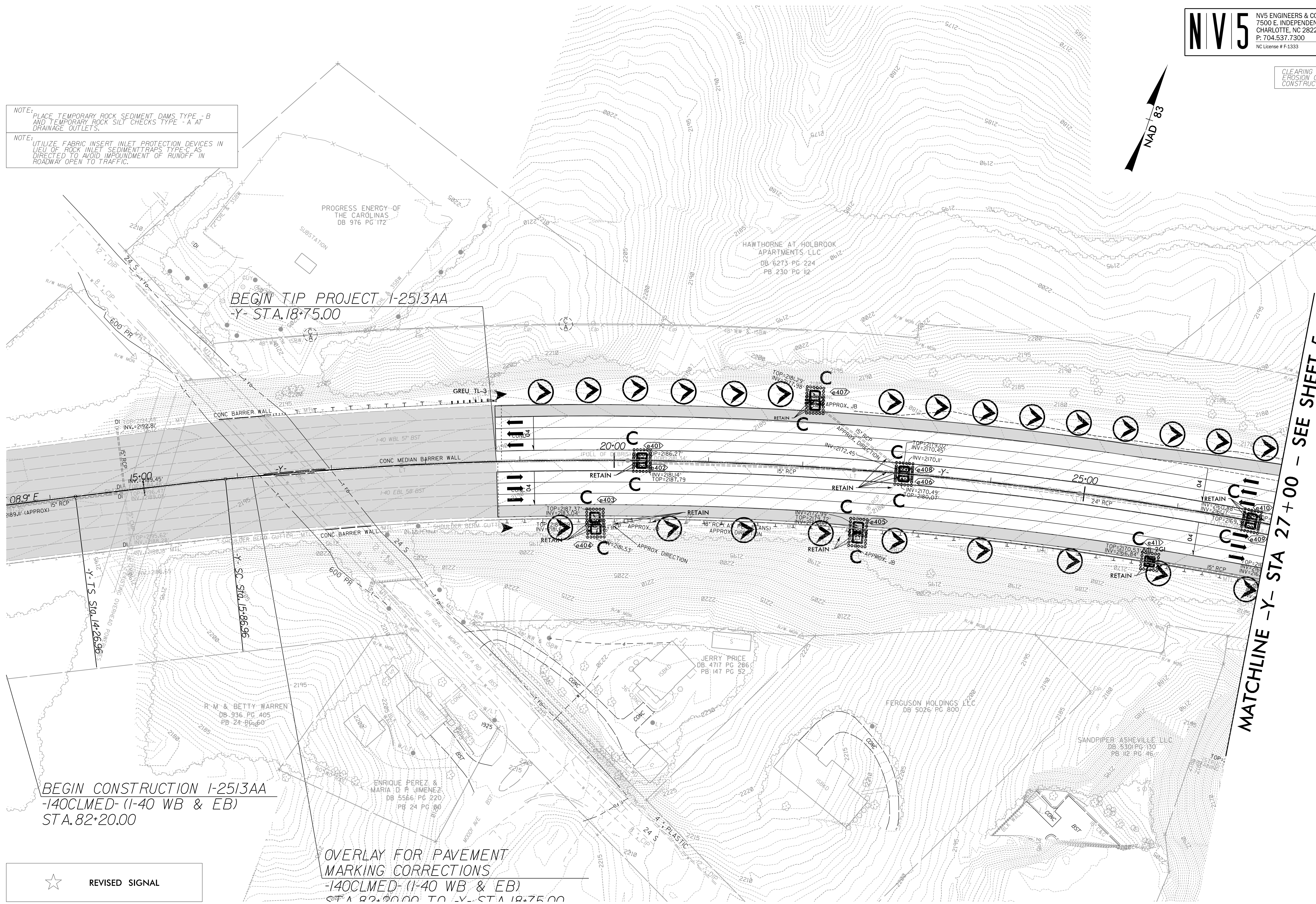
SOIL STABILIZATION TIMEFRAMES

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

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-4/CONST.4
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4



REVISIONS

8/17/99

1/9/2024
R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_04.dgn

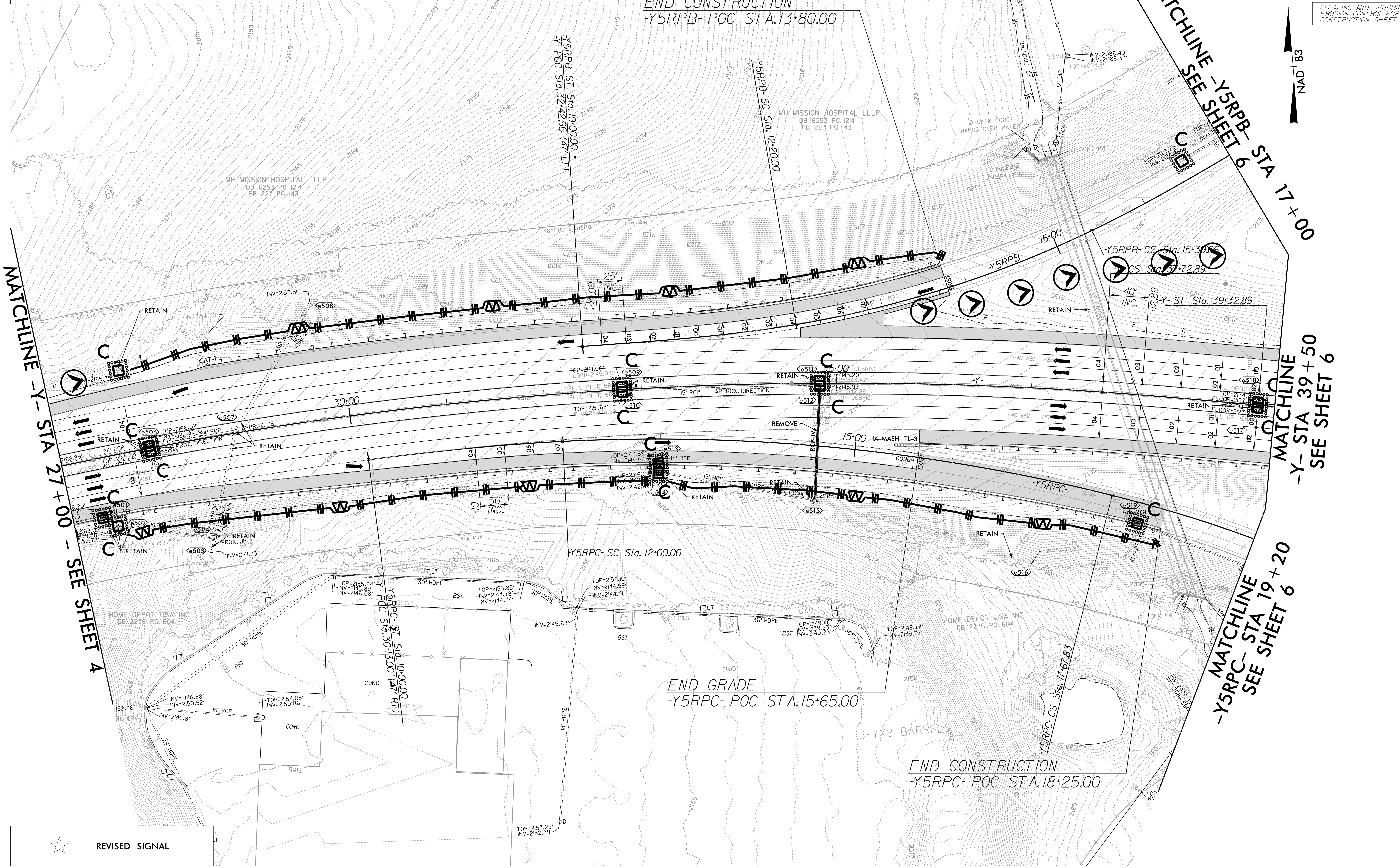
PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-5/CONST.5
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

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 DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



REVISED SIGNAL

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-6/CONST.6
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

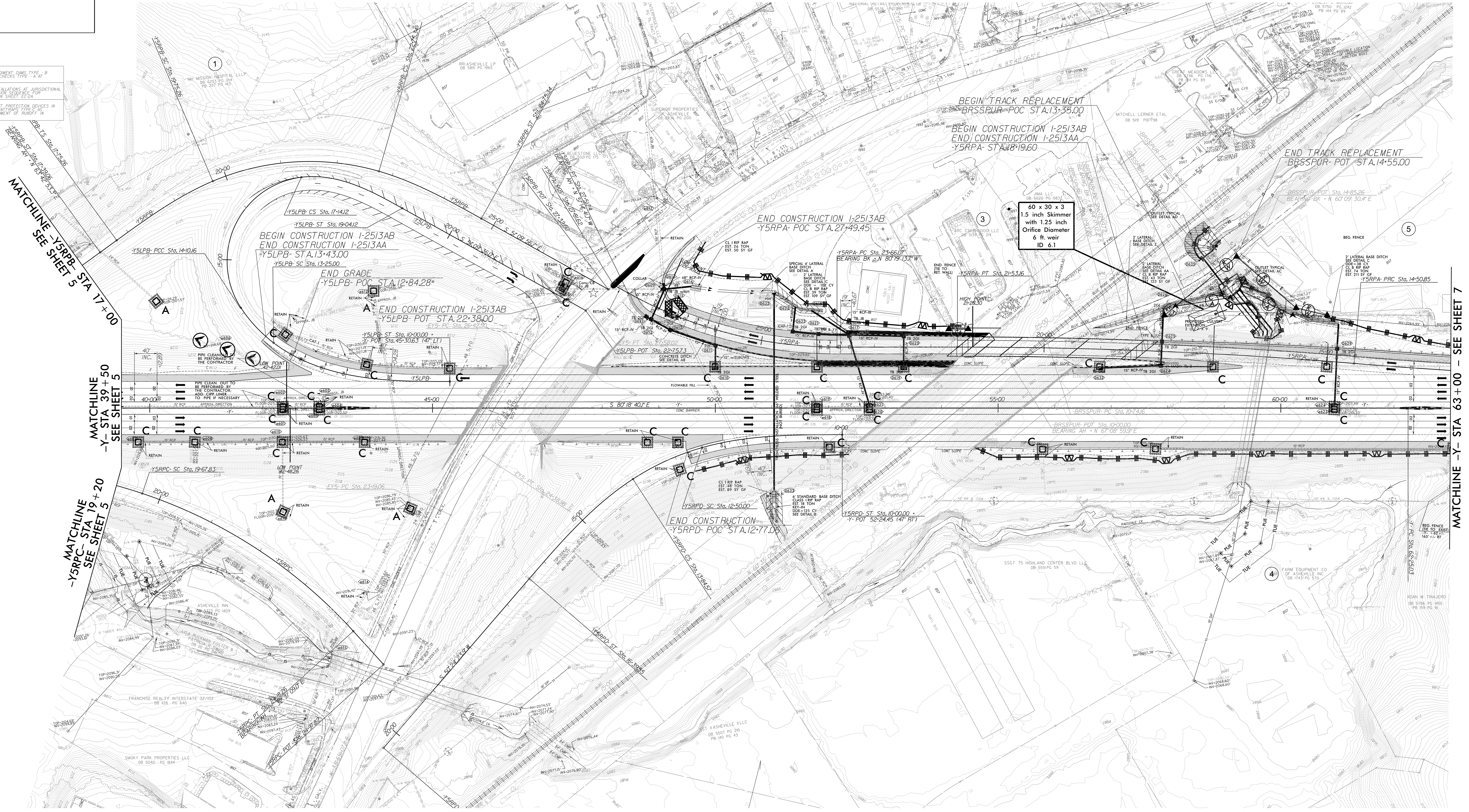
REVISIONS

8/17/99

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

NOTE:
FOR TRENCHLESS PIPE INSTALLATIONS AT JURISDICTIONAL STREAMS.FOLLOW CONSTRUCTION SEQUENCE FOR TRENCHLESS INSTALLATION ON SHEET EC-2A

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

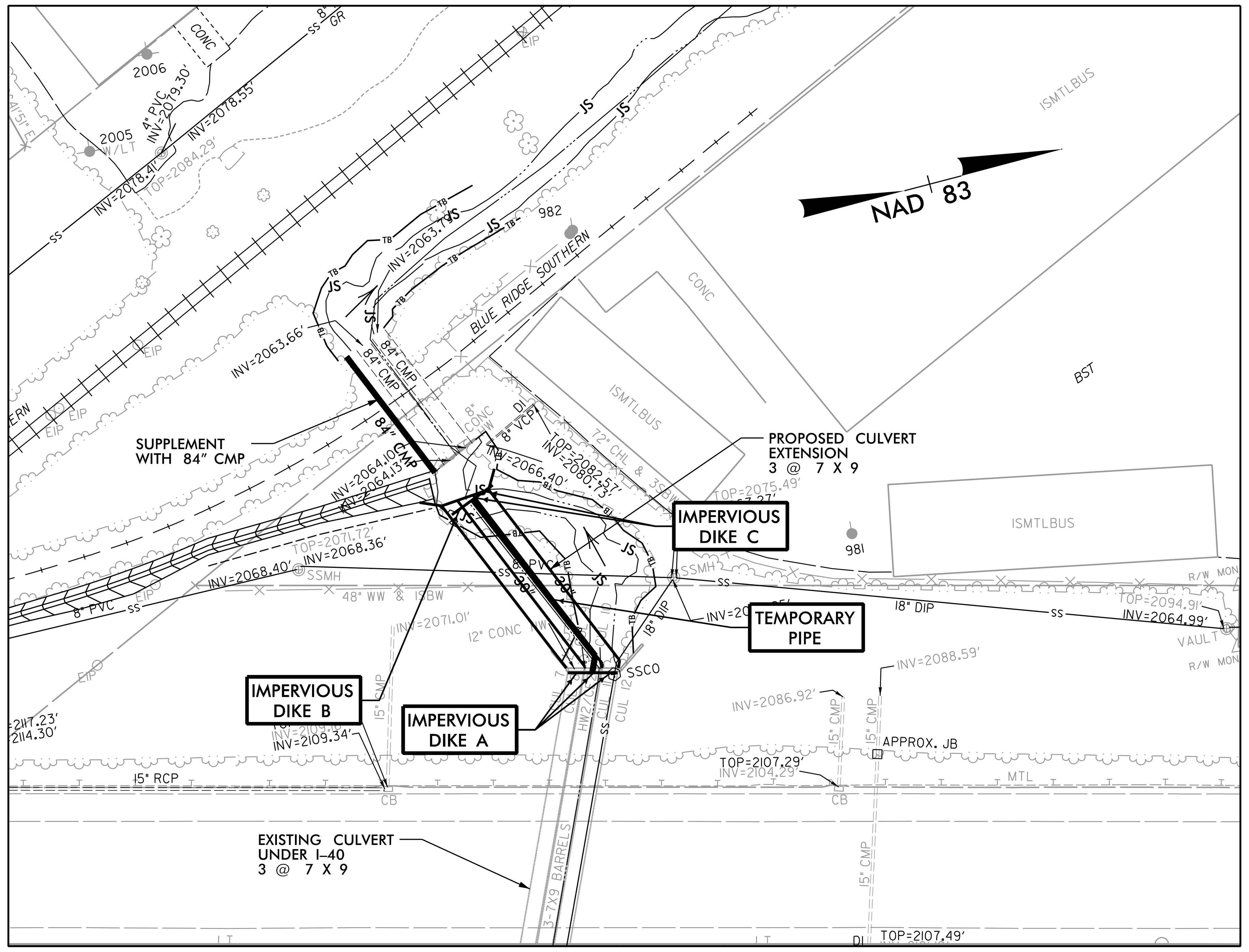
REVISED SIGNAL

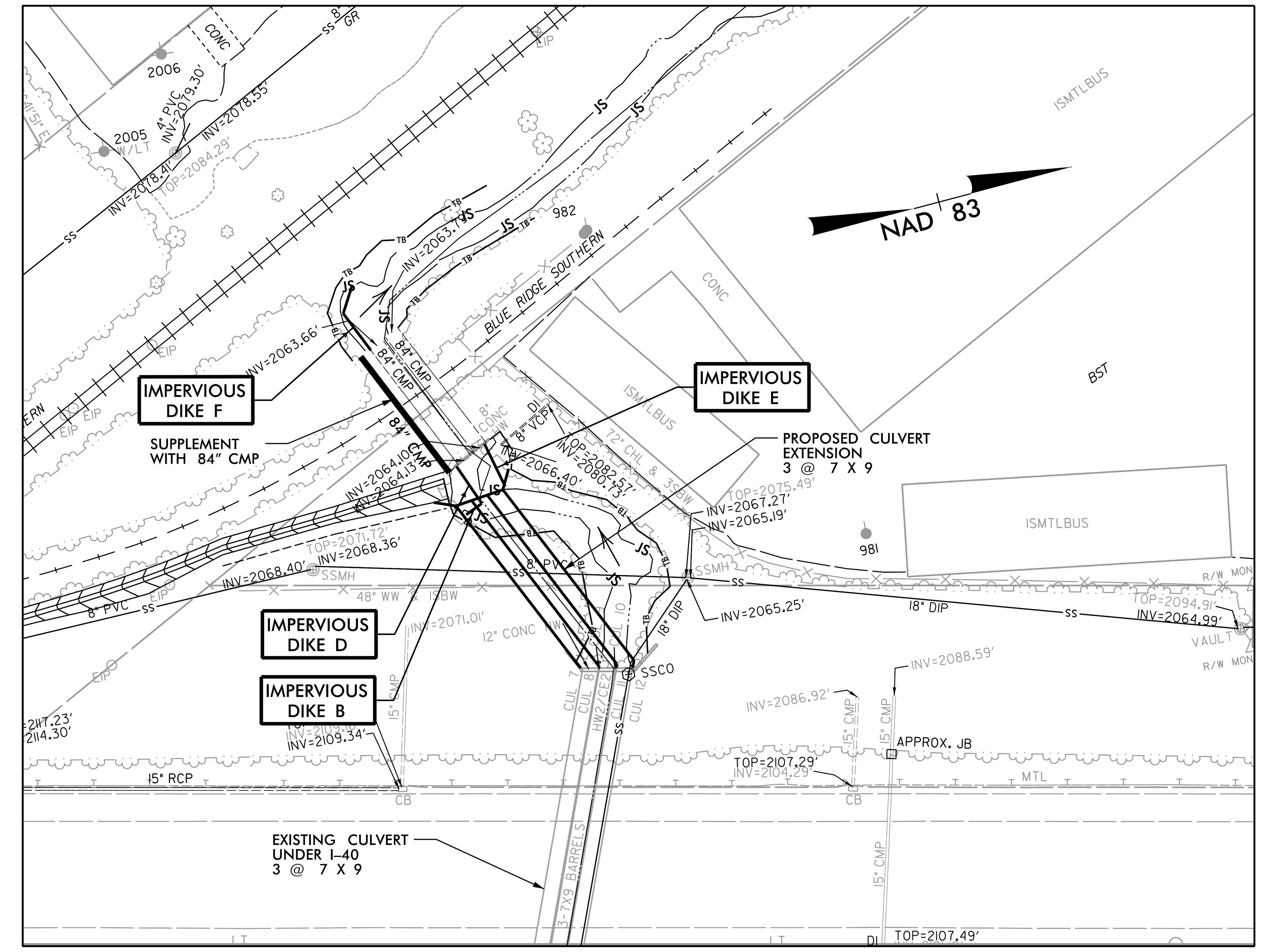
GRAPHIC SCALE
50 25 0 50 100
PLANS

1/8/2024
R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_06.dgn
samuel.skalnig

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-6A
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333





STA 59+70 –L– CONSTRUCTION SEQUENCE CONCEPT PHASE 1

1. INSTALL PROPOSED EROSION CONTROL MEASURES
2. INSTALL SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT
3. INSTALL IMPERVIOUS DIKE A
4. INSTALL TEMPORARY 36" PIPE, IMPERVIOUS DIKES B AND C
5. CONSTRUCT RCBC CULVERT EXTENSION
6. REMOVE IMPERVIOUS DIKES A, C, AND TEMPORARY PIPE

STA 59+70 –L– CONSTRUCTION SEQUENCE CONCEPT PHASE 2

1. INSTALL IMPERVIOUS DIKES D AND E AT 84" SUPPLEMENT CULVERT INLET
2. CONSTRUCT IMPERVIOUS DIKE F AT 84" SUPPLEMENT CULVERT OUTLET
3. INSTALL 84" PIPE
4. COMPLETE INLET AND OUTLET CHANNEL IMPROVEMENTS
5. REMOVE IMPERVIOUS DIKES B, D, E, F AND SPECIAL STILLING BASIN(S)
6. RETURN FLOW

REVISIONS

8/17/99

R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_06A.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-7/CONST.7
R/W SHEET NO.	

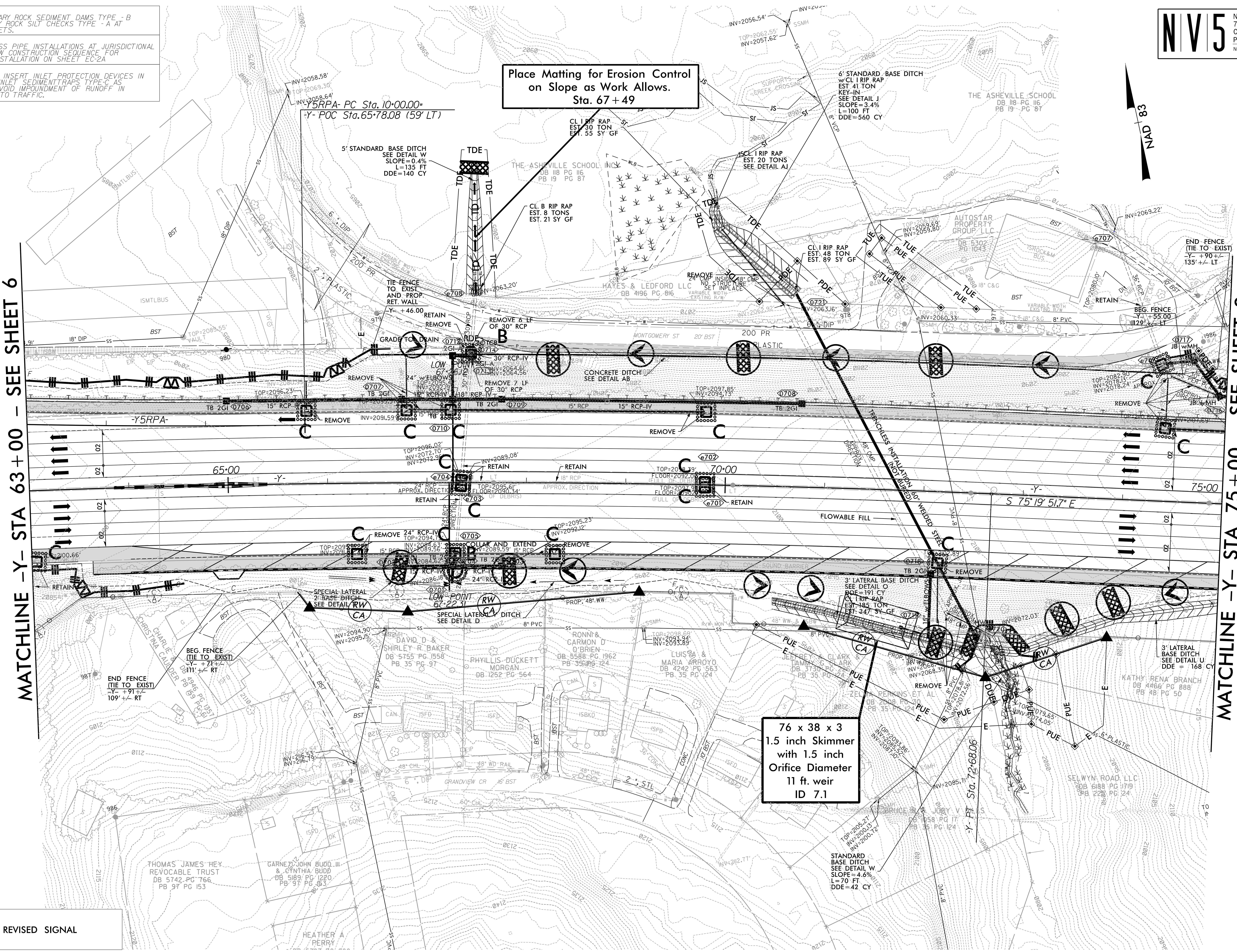
NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

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

NOTE: FOR TRENCHLESS PIPE INSTALLATIONS AT JURISDICTIONAL STREAMS, FOLLOW CONSTRUCTION SEQUENCE FOR TRENCHLESS INSTALLATION ON SHEET EC-2A

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



☆	REVISED SIGNAL

REVISIONS

8/17/99

R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_07.dgn

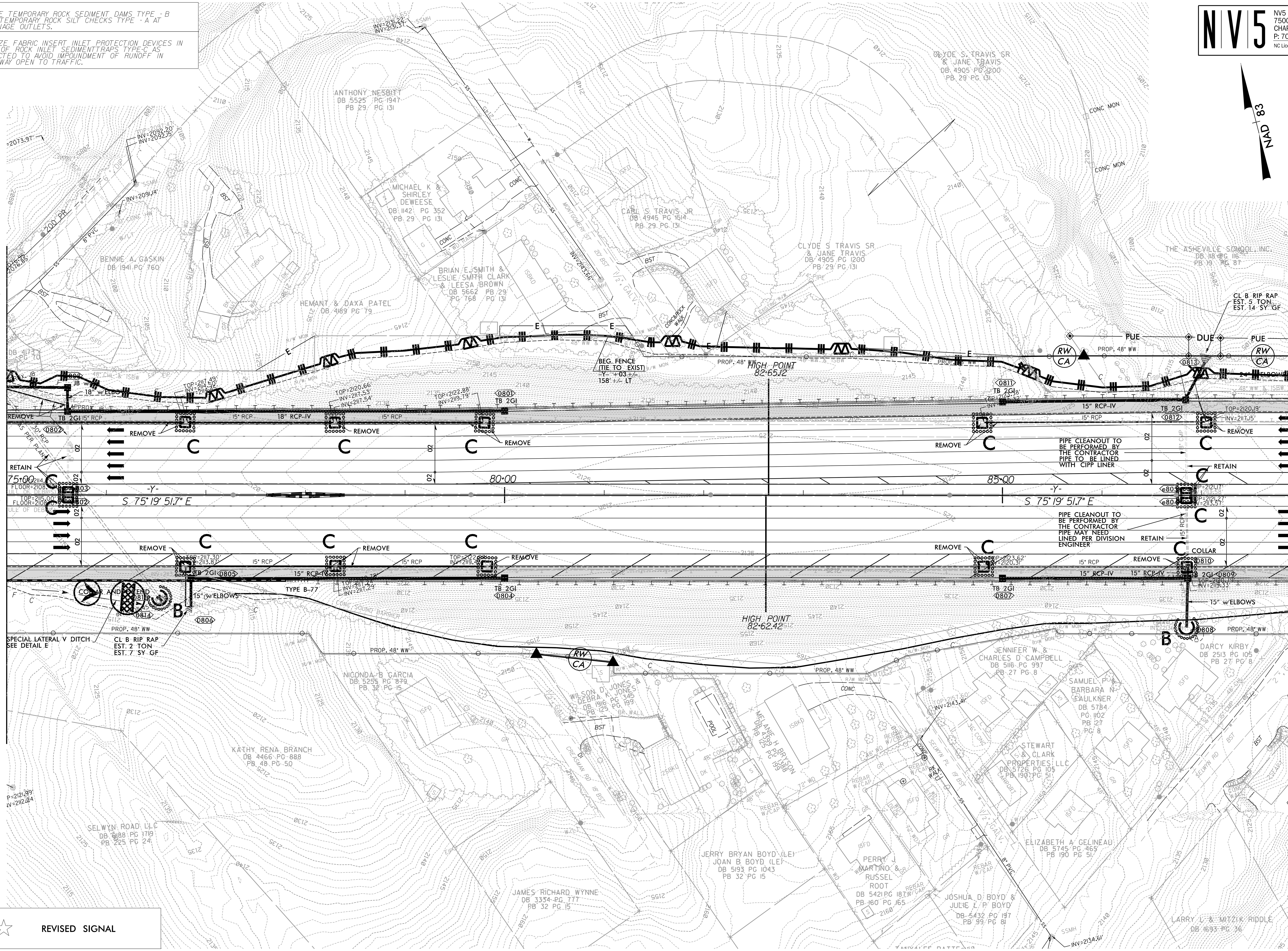
PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-8/CONST.8
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



REVISED SIGNAL

REVISIONS

8/17/99

1/9/2024
R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_08.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-9/CONST.9
R/W SHEET NO.	

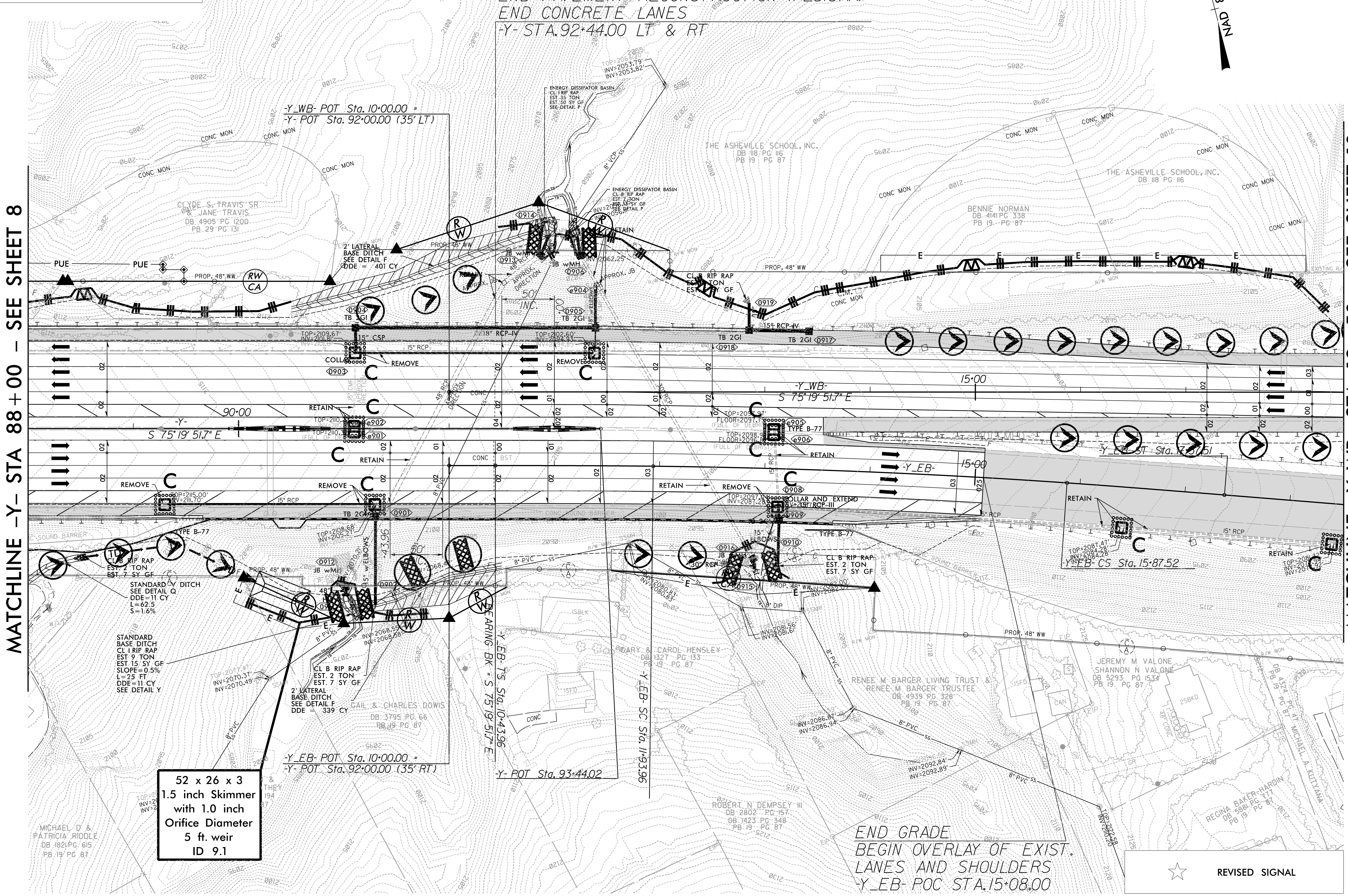
NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

NOTE: INSTAL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNITL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTAINENCE ACTIVITIES MANUAL.



REVISIONS

8/17/99

1/8/2024
R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_09.dgn

REVISIONS

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-10/CONST.10
R/W SHEET NO.	

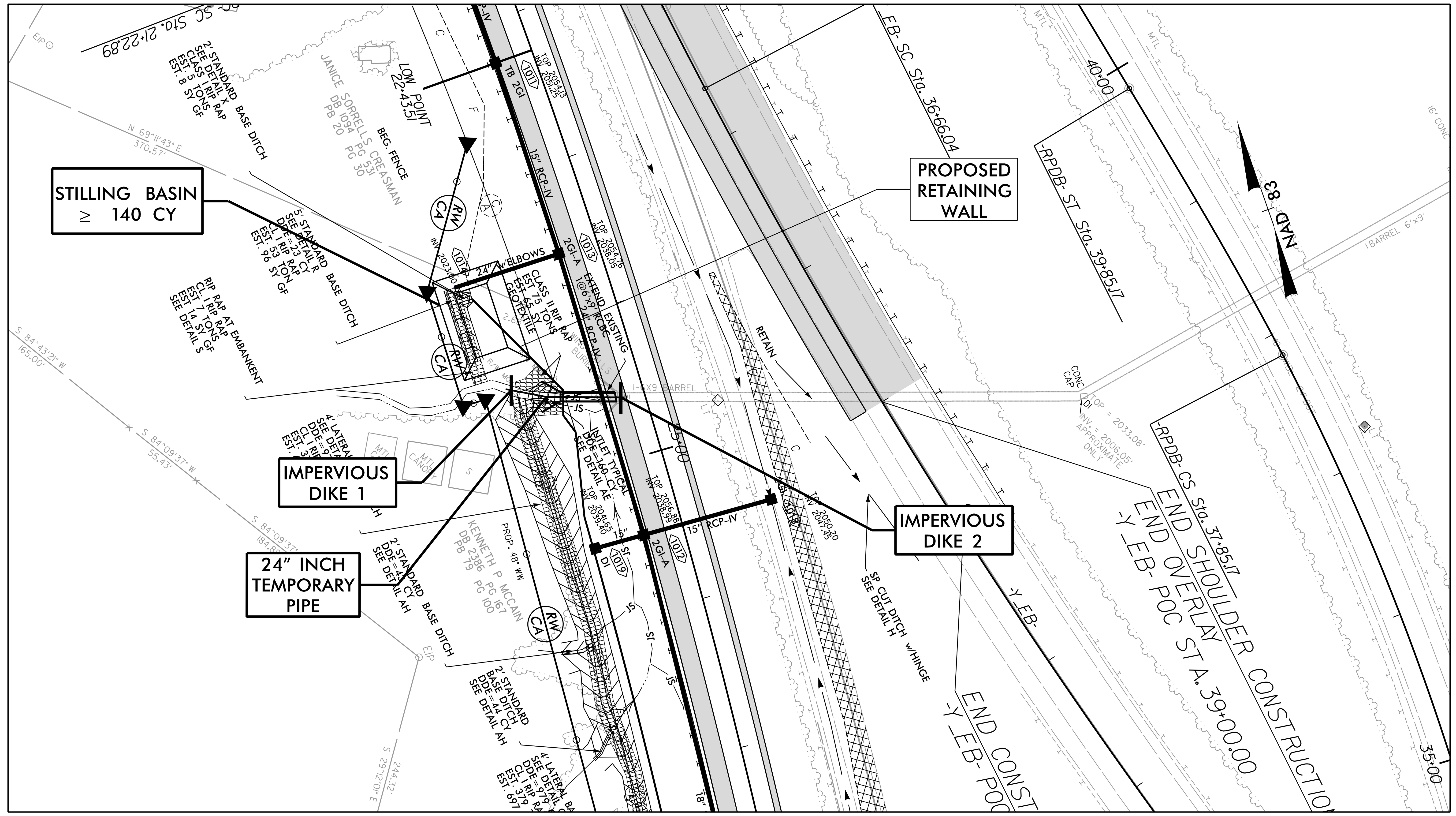
NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

GRAPHIC SCALE
50 25 0 50 100
PLANS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-10A
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333



TRENT BRANCH
CULVERT CONSTRUCTION SEQUENCE 1 of 1
–RPC– STA 24+63.79

PHASE I

1. INSTALL STILLING BASIN (VOLUME ≥ 140 CY) AT UPSTREAM SIDE OF EXISTING RCBC.
2. INSTALL IMPERVIOUS DIKES 1 AND 2 AND AND 24" TEMPORARY PIPE.
3. CONSTRUCT UPSTREAM CULVERT AND UPSTREAM CHANNEL WORK.
4. REMOVE IMPERVIOUS DIKES 1 AND 2, TEMPORARY PIPE, AND STILLING BASIN.

REVISIONS

8/17/99

R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_10A.dgn

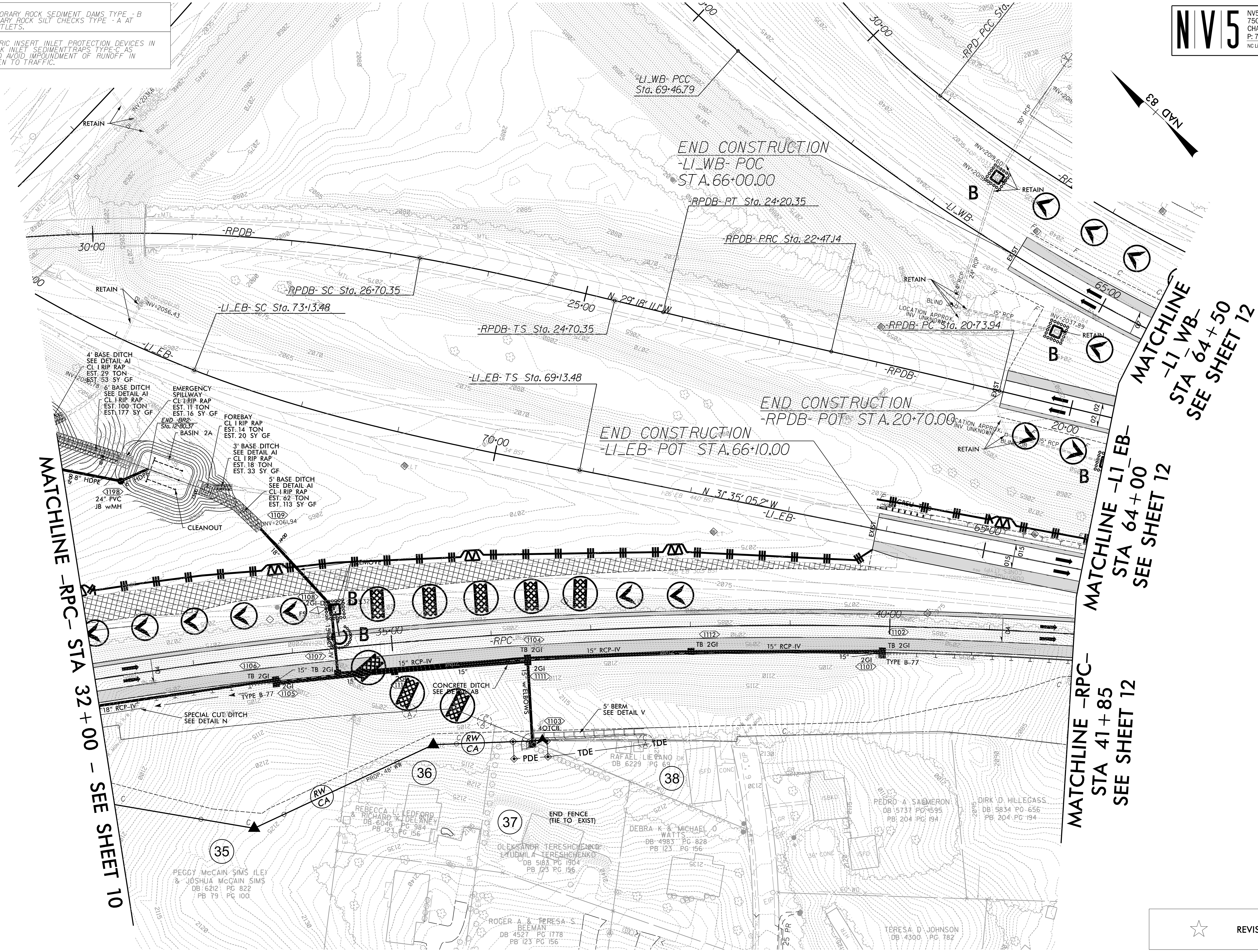
PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-11/CONST.11
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



REVISED SIGNAL

PAVEMENT REMOVAL

REVISIONS

8/17/99

1/9/2024 R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_11.dgn

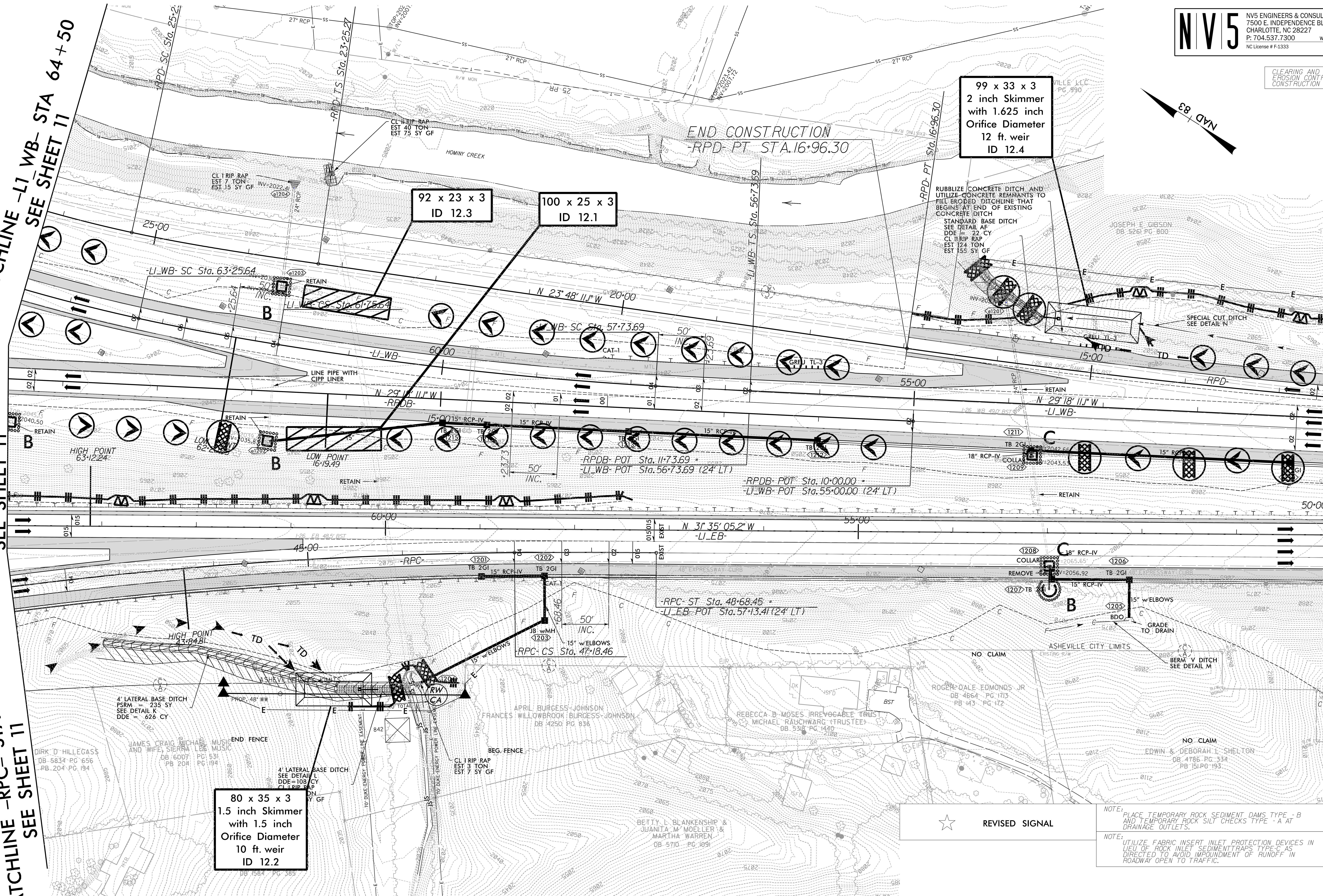
PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-12/CONST 12
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

REVISIONS

8/17/99



REVISED SIGNAL

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

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

1/9/2024
R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_12.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-13/CONST13
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

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 DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

REVISIONS

MATCHLINE -L1_EB- STA 50+00 - SEE SHEET 12

☆ REVISED SIGNAL

8/17/99

1/9/2024
R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_13.dgn

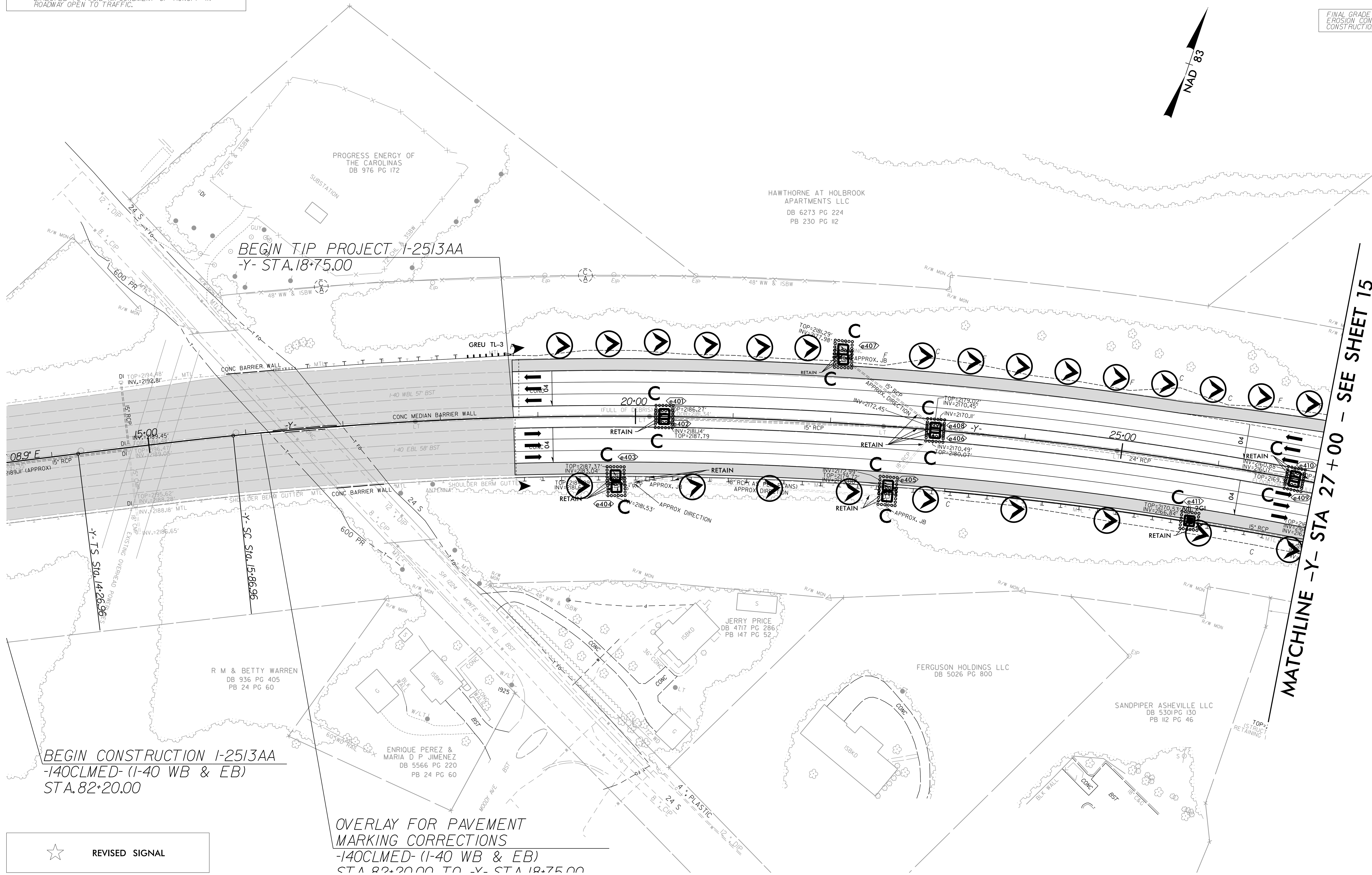
PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-14/CONST.4
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

FINAL GRADE
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 DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



REVISED SIGNAL

REVISIONS

8/17/99

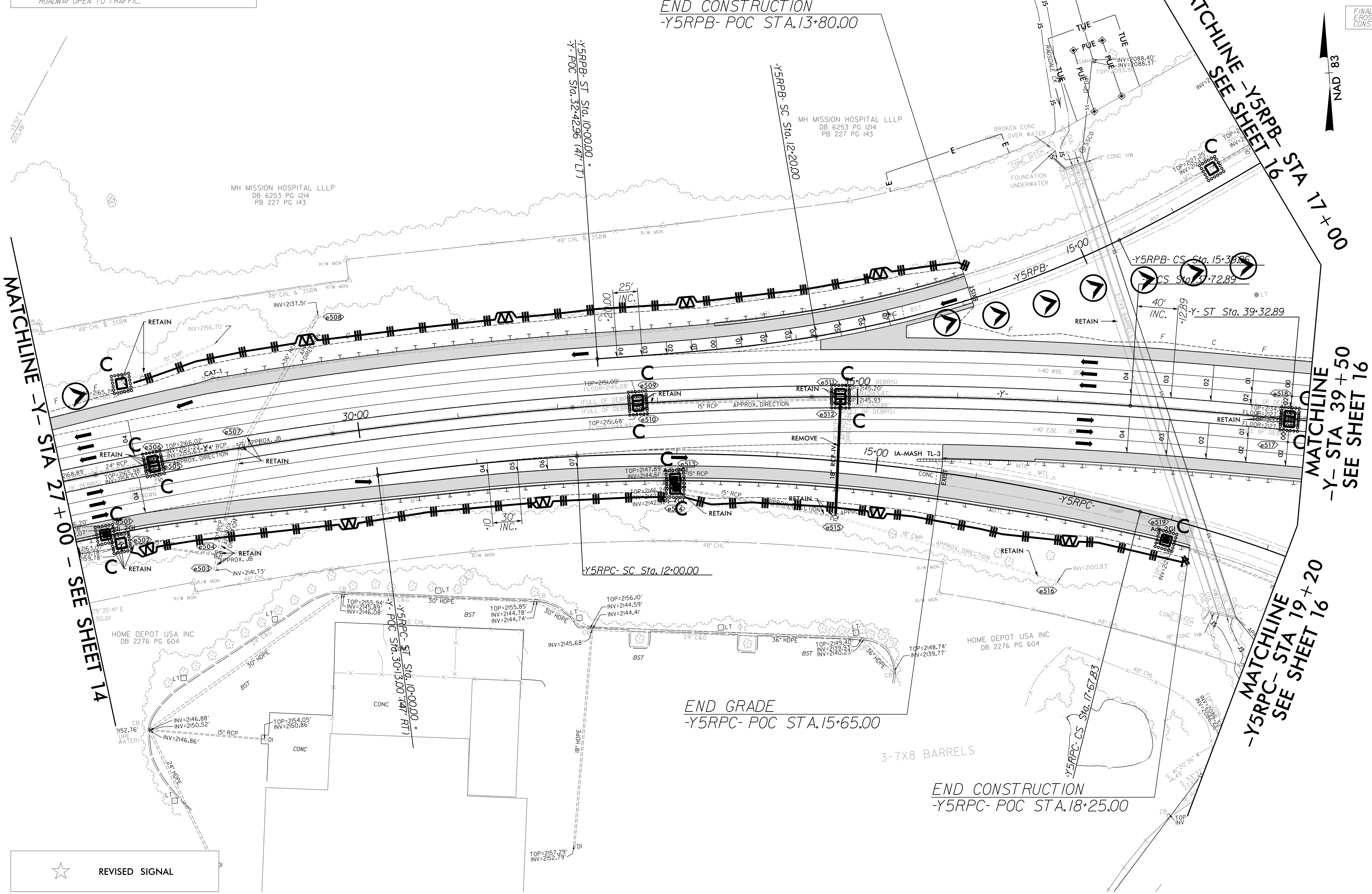
PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-15/CONST.5
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

FINAL GRADE
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 DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



REVISED SIGNAL

REVISIONS

8/17/99

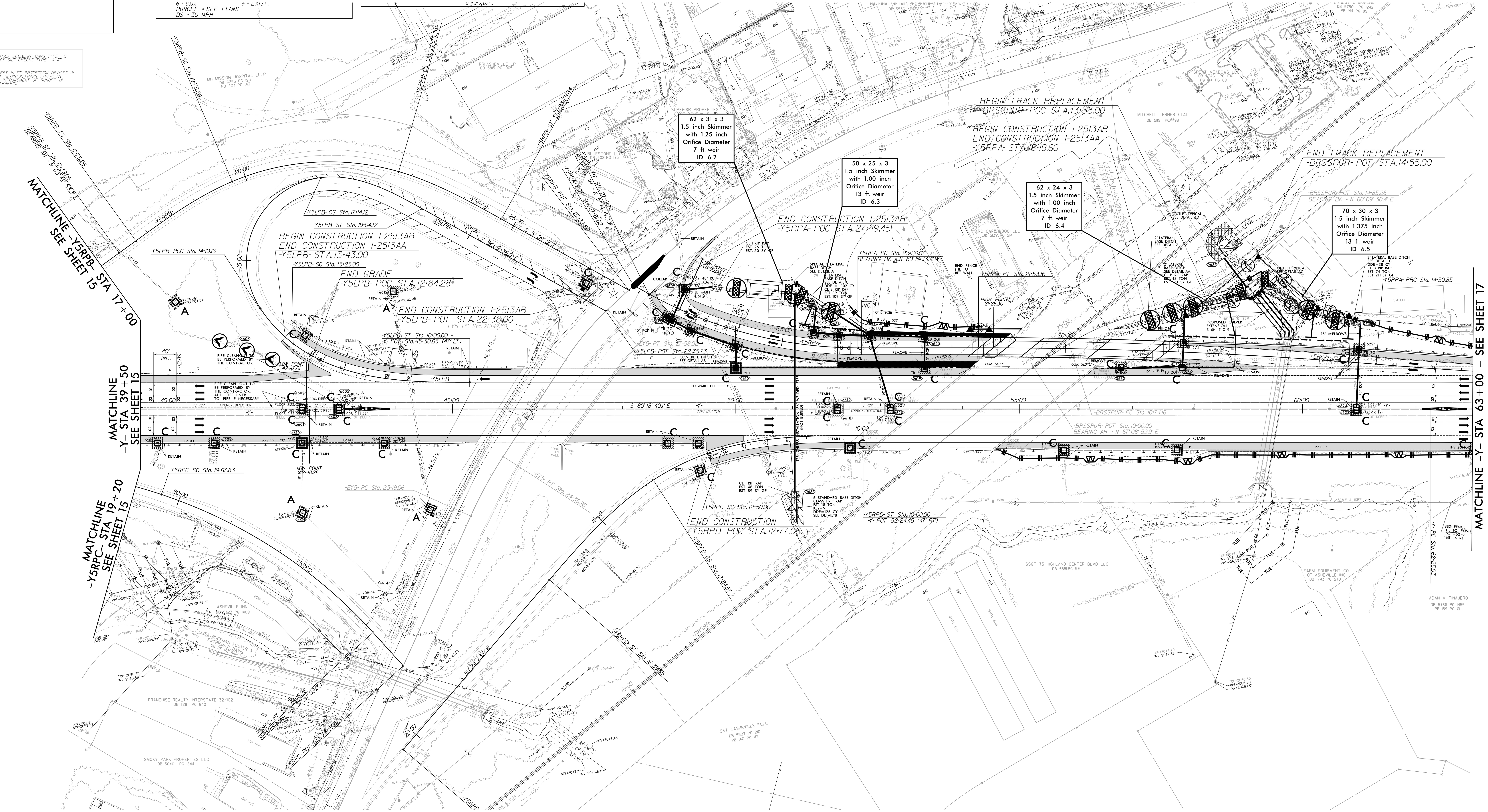
PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-16/CONST.6
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

REVISIONS

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



REVISED SIGNAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

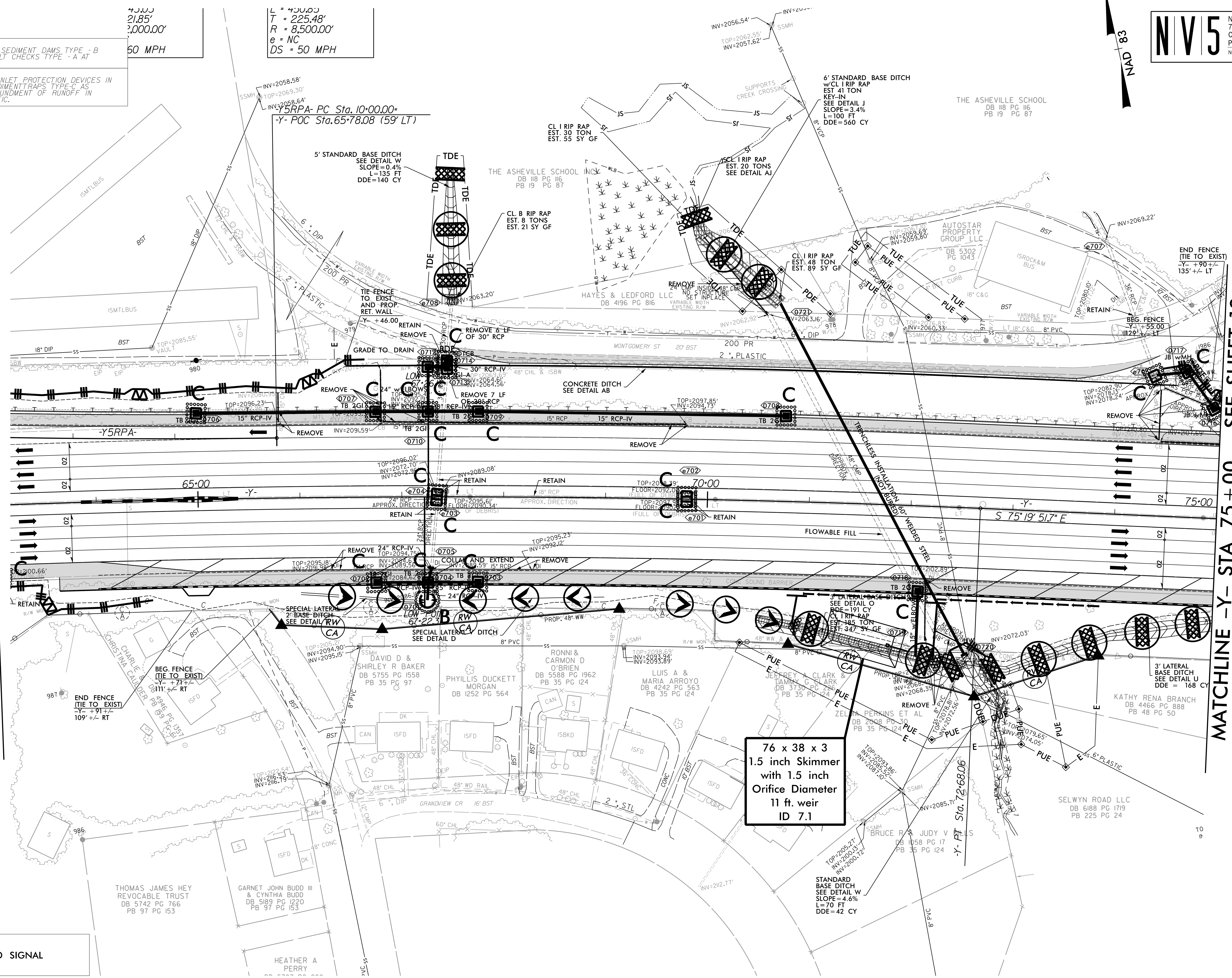
PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-17/CONST.7
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

FINAL GRADE
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



☆ REVISED SIGNAL

REVISIONS

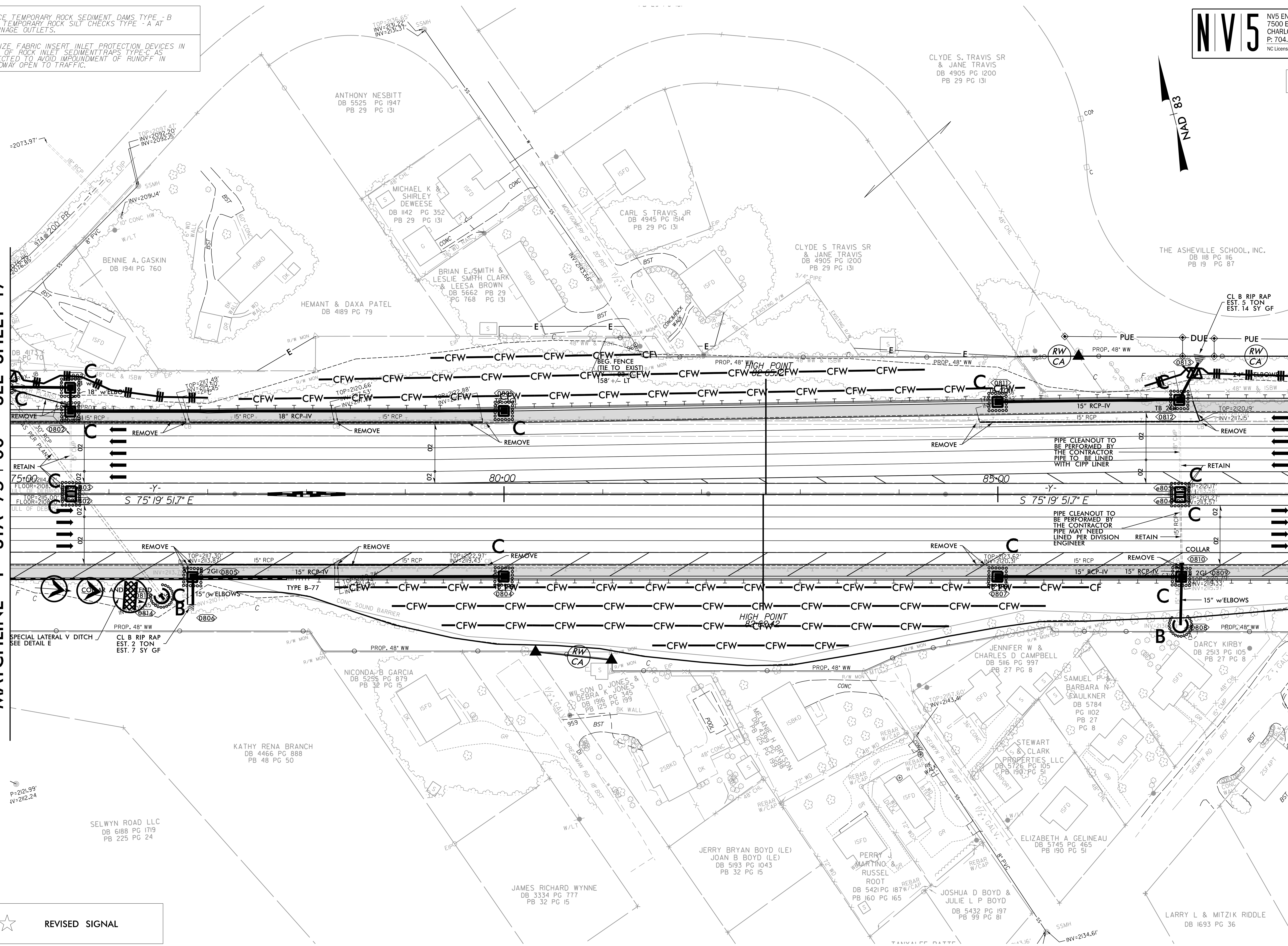
PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-18/CONST.8
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

FINAL GRADE
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



REVISED SIGNAL

REVISIONS

8/17/99

1/9/2024
R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_18.dgn

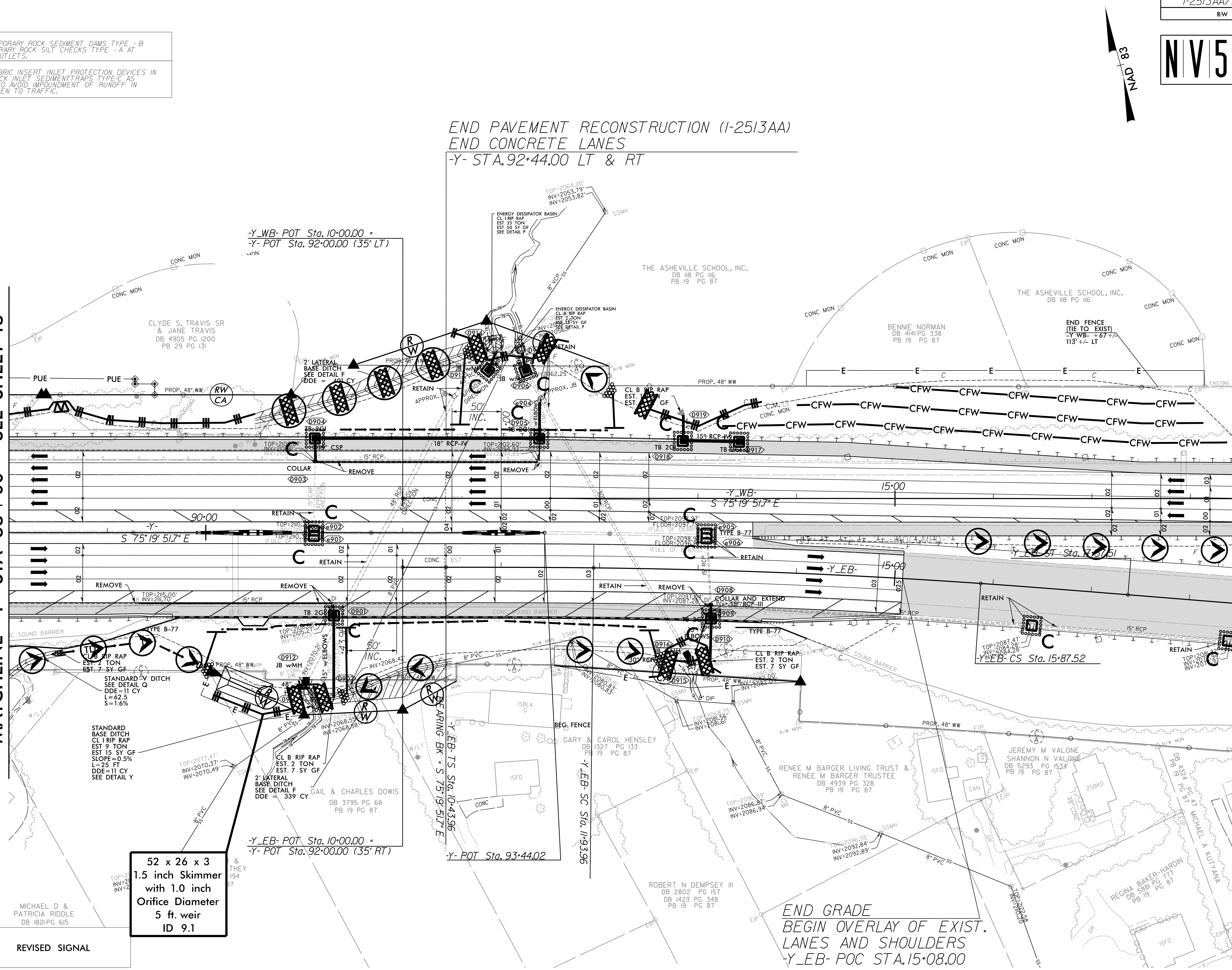
PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-19/CONST.9
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

FINAL GRADE
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



REVISED SIGNAL

REVISIONS

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-20/CONST.10
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

REVISIONS

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

CLEAN WATER DIVERSION

— CWD — CWD — CWD — CWD —

(Not to Scale)

STABILIZE EXCAVATED MATERIAL
SOIL STABILIZATION GEOTEXTILE
OFFSITE CLEAN WATER

GRAPHIC SCALE

50 25 0 50 100

PLANS

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-21/CONSTJI
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

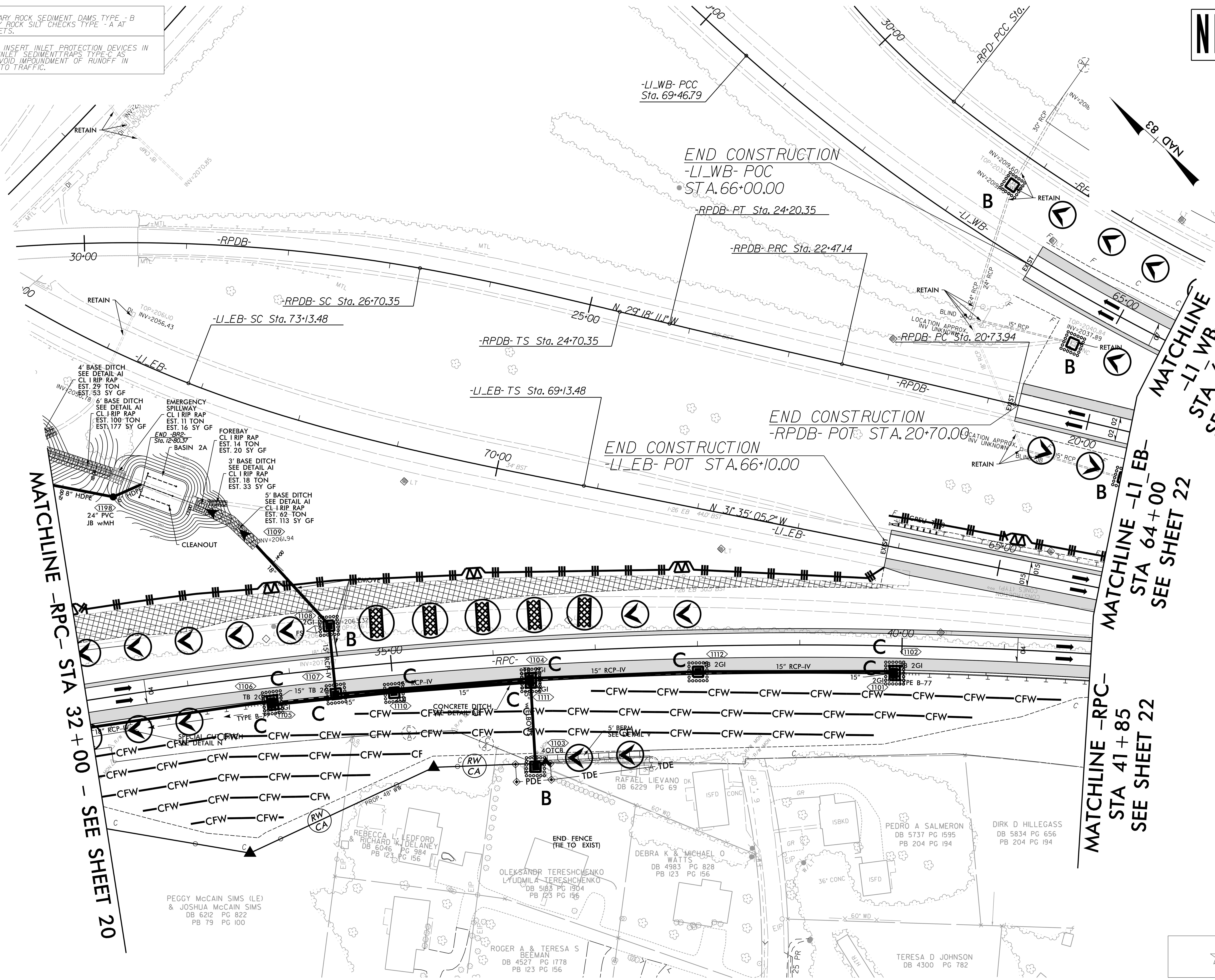
FINAL GRADE
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

REVISIONS

8/17/99



REVISED SIGNAL

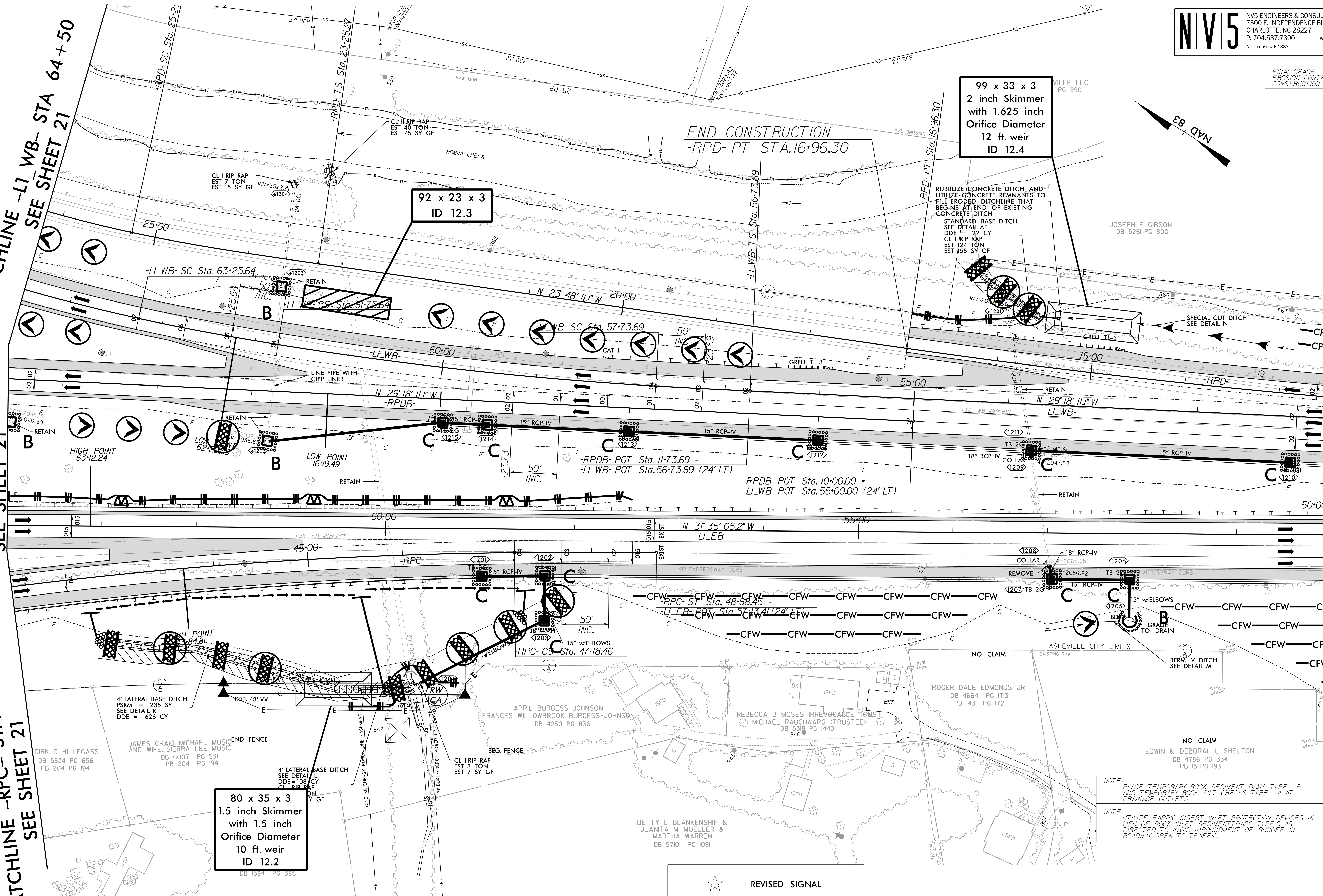
PAVEMENT REMOVAL

1/9/2024
R:\Environmental\Design\AAAB_PSH\I-2513AAAB_EC_PSH_21.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-2513AA/AB	EC-22/CONSTJ2
R/W SHEET NO.	

NV5 ENGINEERS & CONSULTANTS, INC.
7500 E. INDEPENDENCE BLVD, STE 100
CHARLOTTE, NC 28227
P: 704.537.7300 www.NV5.com
NC License # F-1333

FINAL GRADE EROSION CONTROL FOR CONSTRUCTION SHEET 12



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

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENTTRAPS TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

☆ REVISED SIGNAL

REVISIONS

8/17/99