

# HOMEOWNERS RECYCLING CENTER

## ALPHA RIDGE SOLID WASTE

## MANAGEMENT CENTER

### HOWARD COUNTY, MARYLAND

CAPITAL PROJECT NUMBER C-0190

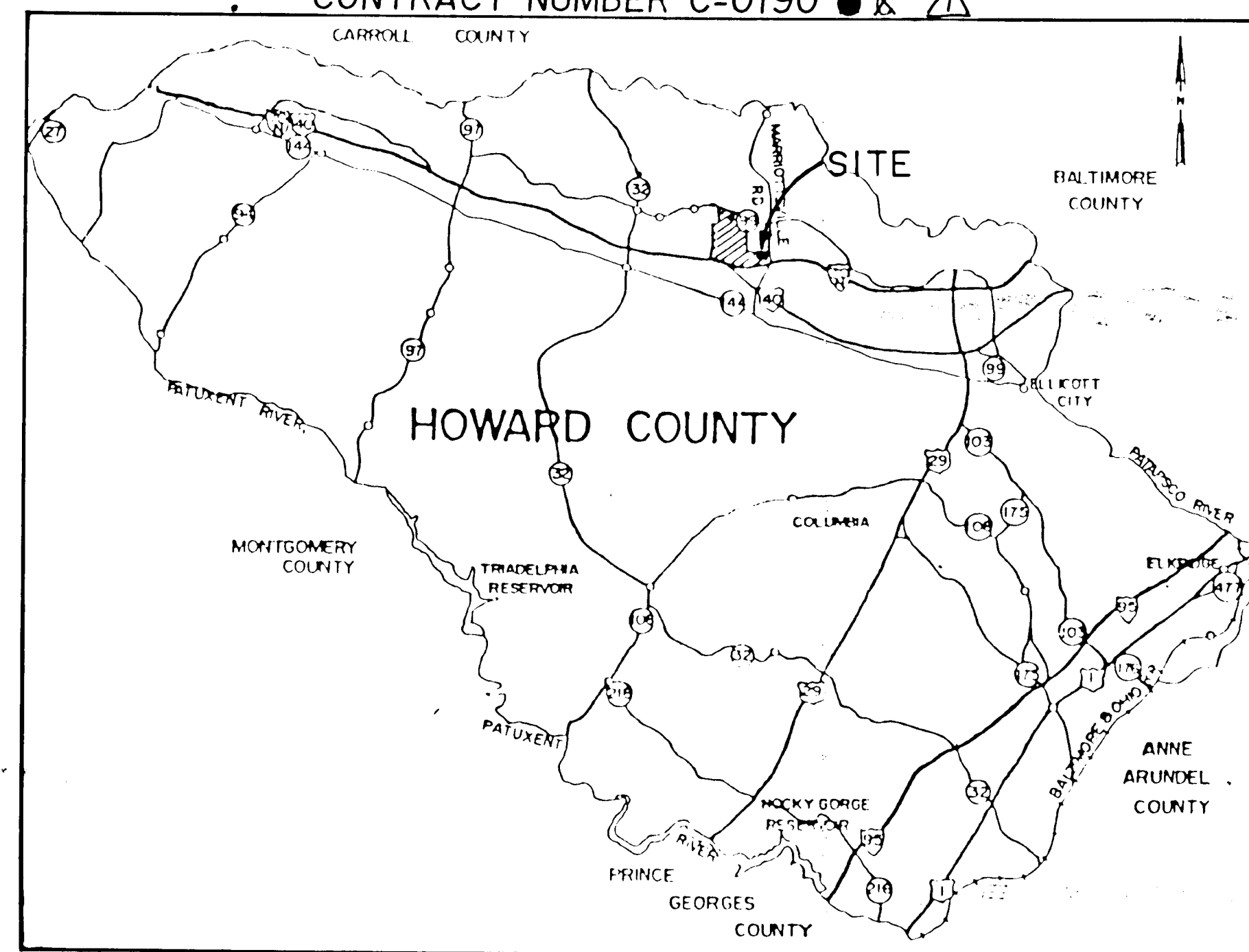
CONTRACT NUMBER C-0190

NOTE: CIRCLED SHEET NOS SUBMITTED FOR RED LINE SDP 90-97 (SEP '96)

**SHEET NO.**

**TITLE**

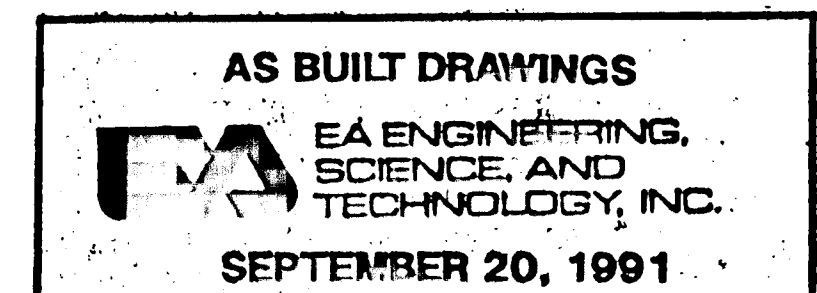
1	TITLE SHEET
2	SITE PLAN
3	ROAD PROFILES/PAVING SECTIONS
4	ROADWAY SECTIONS
5	USED OIL STORAGE TANK/DETAILS
6	EROSION AND SEDIMENT CONTROL PLAN
7	EROSION AND SEDIMENT CONTROL DETAILS/STORM DRAIN PROFILES
8	DETENTION POND PLAN/DETAILS
8A	DETENTION POND DETAILS/SECTIONS/PROFILES
9	MISCELLANEOUS DETAILS
10	RECYCLING AREA RETAINING WALL
11	GENERAL REFUSE DROP-OFF AREA RETAINING WALL EXPANSION
12	METAL ROOF STRUCTURE
13	SIGN/SITE DETAILS
14	ELECTRICAL SITE PLAN
15	ELECTRICAL SCHEDULES
(1)	EXISTING CONDITION, DRAINAGE AREA ZONE & DEMOLITION
(2)	PROPOSED DRAINAGE AREA, EROSION & SEDIMENT CONTROL
(3)	PROPOSED TRUCK EXIT & MISCELLANEOUS DETAILS
(4)	PLANS, ELEVATIONS, & SECTIONS
(5-2)	SECTIONS & DETAILS



**VICINITY MAP**  
SCALE: 1 INCH = 3 MILES

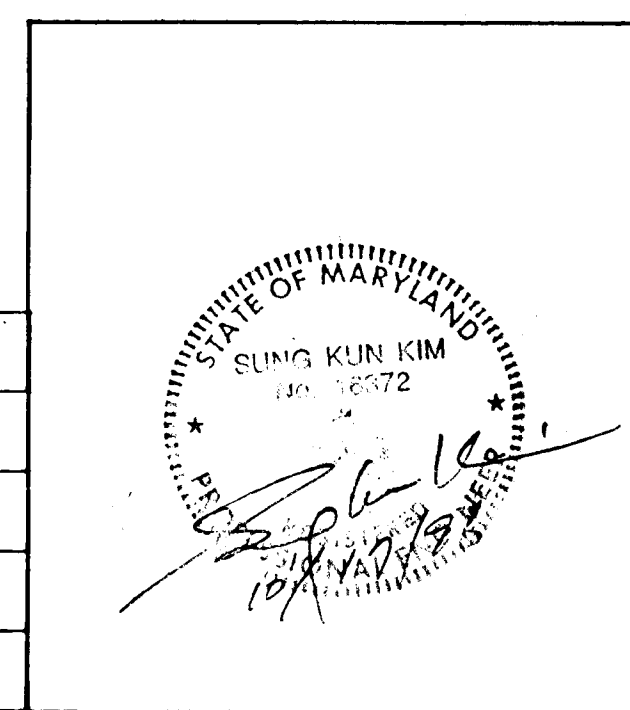
**SITE ANALYSIS**  
 a: Area of Submittal: 372,684 SF = 8.56 Ac. DISTURBANCE = 0.33 AC.  
 b: Present Zoning: R  
 c: Proposed use of structures: Homeowner Drop-off Recycling Center  
 d: Floor space: Guard Booth 32 SF = 0.0007 Ac.  
 Metal Roof Shelter 338 SF = 0.008 Ac.  
 Paved Areas 122,497 SF = 2.81 Ac.  
 e: Total number of units allowed: N/A  
 f: Total number of units provided: Zero  
 g: Apartment and SFA unit area: Zero  
 h: Maximum number of employees on site: 2  
 i: Required parking spaces: N/A  
 j: Parking spaces provided: Existing parking - 12, Additional spaces-21  
 k: Open space to remain: 249,817 SF = 5.73 Ac. = 43.2% of submittal 5.40 AC. OR 63%  
 l: Building coverage of site: 370 SF = 0.0087 Ac. = 0.01% of Submittal  
 m: Vegetatively Stabilized Area = 5.73 Ac. 5.40 AC.  
 n: Volume Cut = 20,499-cy 480 CY  
 o: Volume Fill = 8,319-cy 250 CY  
**Notes**  
 1) Orthotopography as developed by Buchart-Horn, Inc. York, PA from aerial flight of 2/12/82.  
 2) Horizontal datum based on Maryland coordinate grid system.  
 3) Vertical datum based on USC & GS M.S.L. of 1929.  
 4) The property hereon is described by metes & bounds on property plat, 3rd Election District recorded in SDP-79-85, dated March 1979, & approved Division of Land Development 5-17-79.

RED LINE SDP 90-97 (SEP. 1996)



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER DATE 8-23-90  
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE 8/28/90  
 APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS.  
 HOWARD COUNTY DEPT. OF PUBLIC WORKS  
 DIRECTOR DATE 8-23-90  
 CHIEF, BUREAU OF ENGINEERING DATE 8-23-90

SUBDIVISION NAME Alpha Ridge Solid Waste Management Center		SECT./AREA/LOT/PARCEL 302
LIBER/FOLIO/BLOCK 858-330	ZONE R	TAX/ZONE MAP/ELEC. DIST. CENSUS TR. 16 3 6030
WATER CODE Private, Existing	SEWER CODE Private, Existing	
OWNER/DEVELOPER Howard County Government		
ADDRESS 3430 Court House Drive, Ellicott City, MD 21043		



DESIGN D.T.M.  
 DRAWN D.T.M.  
 CHECKED P.A.P.  
 PROJECT ENGINEER D.S.S.

**ALPHA RIDGE SOLID WASTE MANAGEMENT CENTER  
 HOWARD COUNTY, MARYLAND  
 HOMEOWNERS RECYCLING CENTER**

**TITLE SHEET**

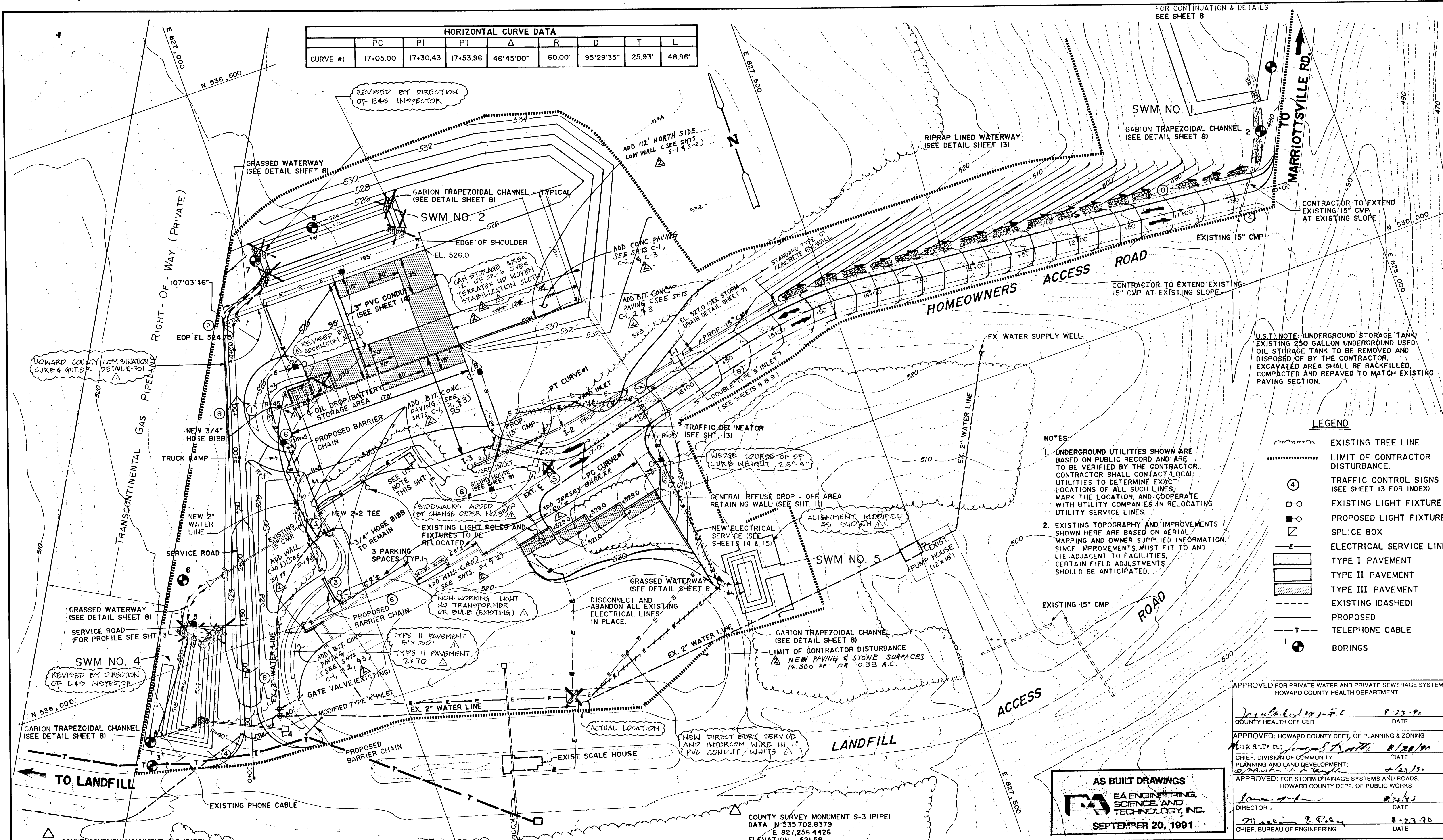
EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.  
 Loveton Center  
 19 Loveton Circle  
 Sparks, Maryland 21152  
 (301) 771-4950

DATE: 24 JULY 1990  
 SCALE: AS SHOWN  
 PROJECT NO: 10293.02  
 SHEET NO: 1 OF 15



HORIZONTAL CURVE DATA							
CURVE #1	PC	PI	PT	Δ	R	D	L
	17+05.00	17+30.43	17+53.96	46°45'00"	60.00'	95°29'35"	25.93'

REVISED BY DIRECTION  
OF E&S INSPECTOR



NOTE: UNDERGROUND STORAGE TANK  
EXISTING 250 GALLON UNDERGROUND USED  
OIL STORAGE TANK TO BE REMOVED AND  
DISPOSED OF BY THE CONTRACTOR.  
EXCAVATED AREA SHALL BE BACKFILLED,  
COMPACTED AND REPAVED TO MATCH EXISTING  
PAVING SECTION.

**LEGEND**

- EXISTING TREE LINE
- LIMIT OF CONTRACTOR DISTURBANCE
- ⊙ TRAFFIC CONTROL SIGNS (SEE SHEET 13 FOR INDEX)
- EXISTING LIGHT FIXTURE
- ⊙ PROPOSED LIGHT FIXTURE
- SPLICE BOX
- E— ELECTRICAL SERVICE LINE
- ▨ TYPE I PAVEMENT
- ▩ TYPE II PAVEMENT
- ▧ TYPE III PAVEMENT
- - - EXISTING (DASHED)
- - - PROPOSED
- T- TELEPHONE CABLE
- ⊙ BORINGS

**NOTES:**  
1. UNDERGROUND UTILITIES SHOWN ARE  
BASED ON PUBLIC RECORD AND ARE  
TO BE VERIFIED BY THE CONTRACTOR.  
CONTRACTOR SHALL CONTACT LOCAL  
UTILITIES TO DETERMINE EXACT  
LOCATIONS OF ALL SUCH LINES,  
MARK THE LOCATION, AND COOPERATE  
WITH UTILITY COMPANIES IN RELOCATING  
UTILITY SERVICE LINES.  
2. EXISTING TOPOGRAPHY AND IMPROVEMENTS  
SHOWN HERE ARE BASED ON AERIAL  
MAPPING AND OWNER SUPPLIED INFORMATION.  
SINCE IMPROVEMENTS MUST FIT TO AND  
LIE ADJACENT TO FACILITIES,  
CERTAIN FIELD ADJUSTMENTS  
SHOULD BE ANTICIPATED.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]* 8-23-90  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING  
*[Signature]* 8/20/90  
CHIEF, DIVISION OF COMMUNITY  
PLANNING AND LAND DEVELOPMENT: DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND ROADS.  
HOWARD COUNTY DEPT. OF PUBLIC WORKS

*[Signature]* 8-23-90  
DIRECTOR DATE  
*[Signature]* 8-23-90  
CHIEF, BUREAU OF ENGINEERING DATE

**AS BUILT DRAWINGS**  
EA ENGINEERING,  
SCIENCE AND  
TECHNOLOGY, INC.  
SEPTEMBER 20, 1991

**ALPHA RIDGE SOLID WASTE MANAGEMENT CENTER  
HOWARD COUNTY, MARYLAND  
HOMEOWNERS RECYCLING CENTER**

**SITE PLAN**

**COORDINATES OF SELECTED POINTS**

△ E.O.P.	N 536,195	E 826,985
△ E.O.P.	N 536,195	E 827,160
STA. 0+00	N 535,880	E 826,844
STA. 4+24	N 536,285.34	E 826,968.41

**STATION OFFSETS FOR DRAINAGE STRUCTURES**

STRUCTURE	STATION	OFFSET	DIRECTION
HOMEOWNER ACCESS ROAD			
ENDWALL	14+87.0	22.5'	RIGHT
I-1 DOUBLE "S" INLET	15+88.5	23.5'	RIGHT
I-2 YARD INLET	17+13.0 (EXTENDED)	30.0'	RIGHT
I-3 YARD INLET	18+04.5 (EXTENDED)	47.5'	RIGHT
SERVICE ROAD			
I-4 "K" INLET (MOD.)	0+47.0	30.5'	RIGHT

**SUBDIVISION NAME**  
Alpha Ridge Solid Waste Management Center

**LIBER/FOLIO/BLOCK**  
856-330

**ZONE**  
R

**TAX/ZONE MAP/ELEC. DIST./CENSUS TR.**  
16 3 8030

**WATER CODE**  
Private, Existing

**SEWER CODE**  
Private, Existing

**OWNER/DEVELOPER**  
Howard County Government

**ADDRESS**  
3430 Court House Drive, Ellicott City, MD 21043



**PLAN**  
SCALE: 1" = 40'

DESIGN	J.W.W.	DATE	24 JULY 1990
DRAWN	D.T.M.	SCALE	1" = 40'
CHECKED	P.A.P.	PROJECT NO.	10293.02
PROJECT ENGINEER	D.S.S.	SHEET NO.	2 OF 15

Hunt Valley/Loveton Center  
15 Loveton Circle  
Sparks, Maryland 21152  
(301) 771-4950

BALTIMORE  
CHICAGO  
LINCOLN  
NEW YORK  
NEW JERSEY  
ATLANTA  
DALLAS  
LOS ANGELES  
SAN FRANCISCO  
CHARLOTTE  
BOSTON





STATE OF MARYLAND  
 SUNG KUN KIM  
 No. 6372  
 PROFESSIONAL ENGINEER  
 09/21/96

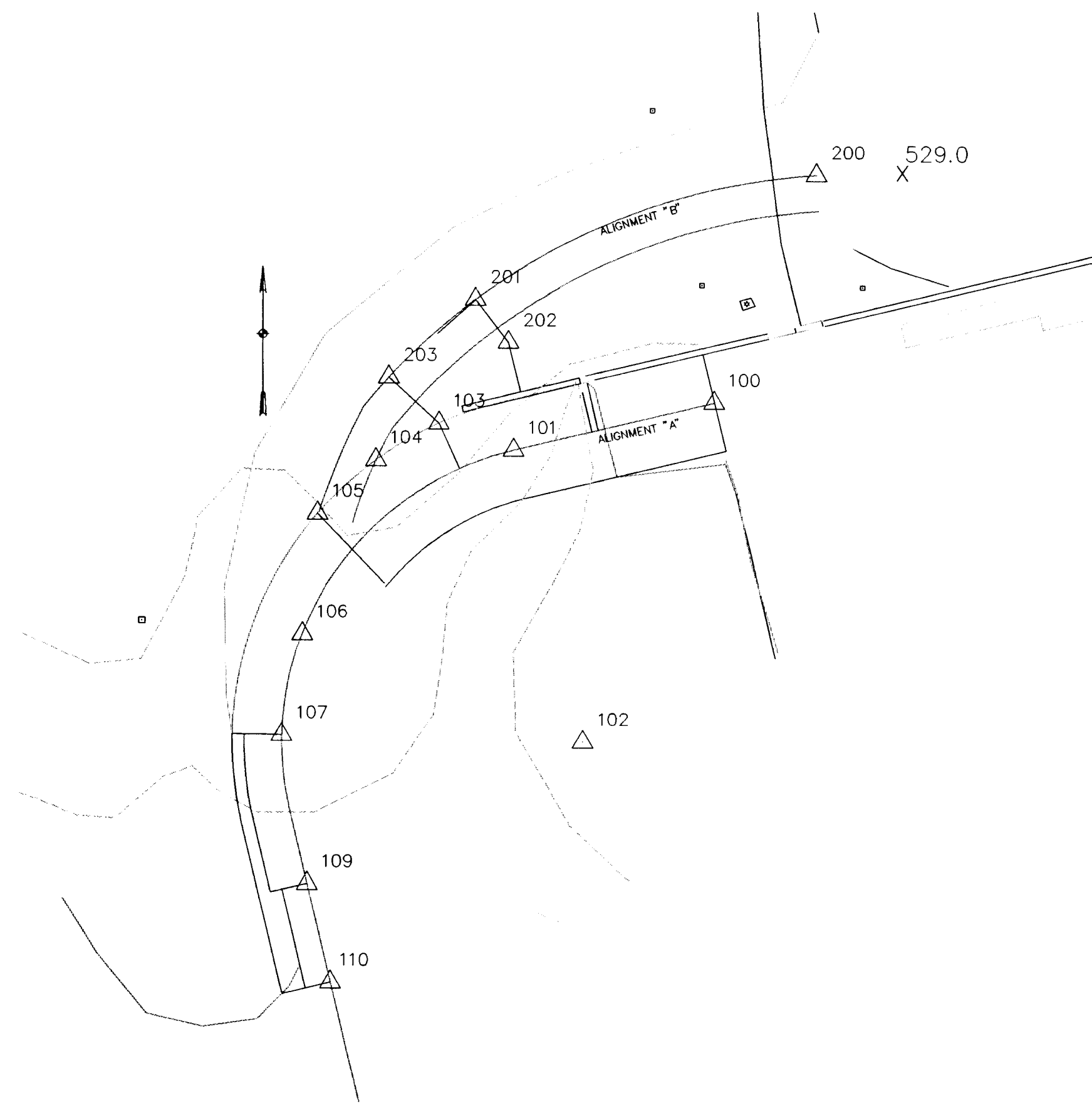
DRAWN BY: DATE: DWG. NO.	APPROVED BY: PROJ. NO. DWG.	REVISIONS	PROJECT  Scale 1" = 40 ft	SHT. NO. C-1
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XXAL-96-001

SEP. '96 SDP 96-97







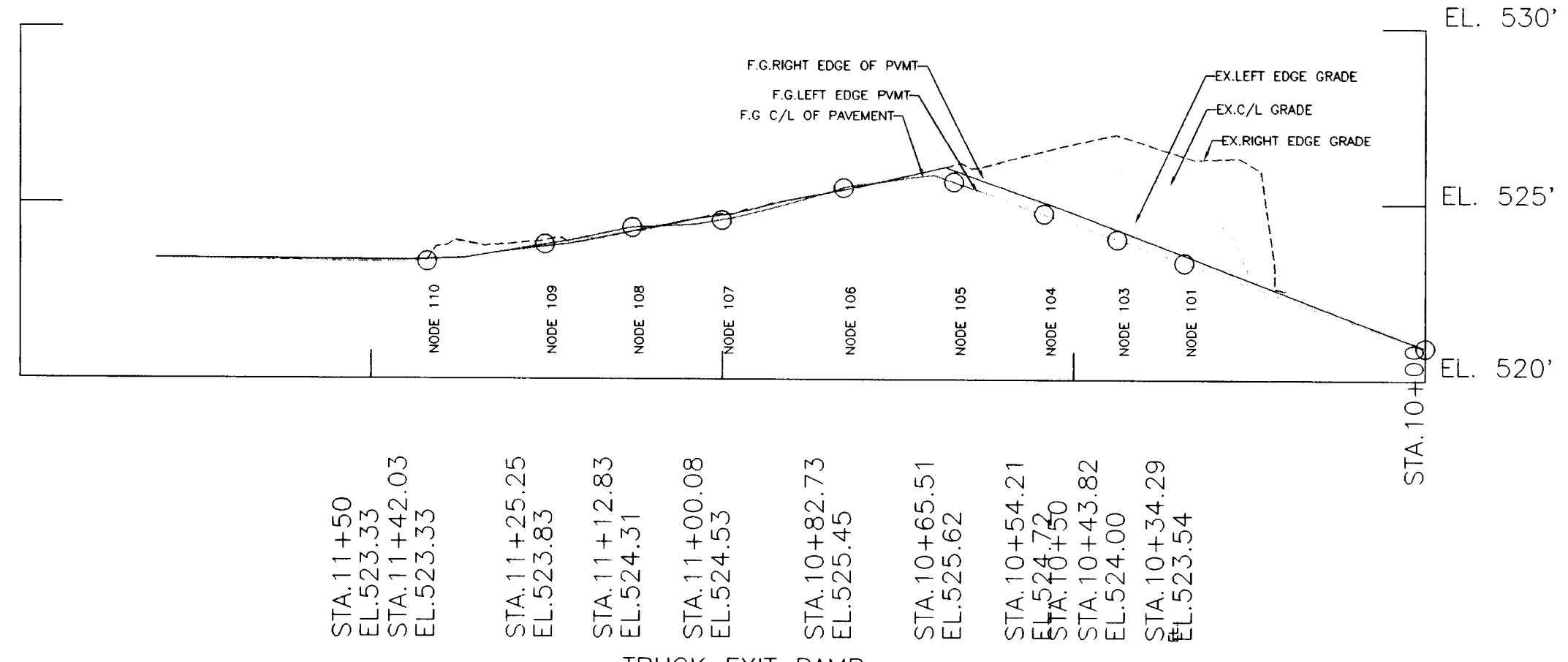
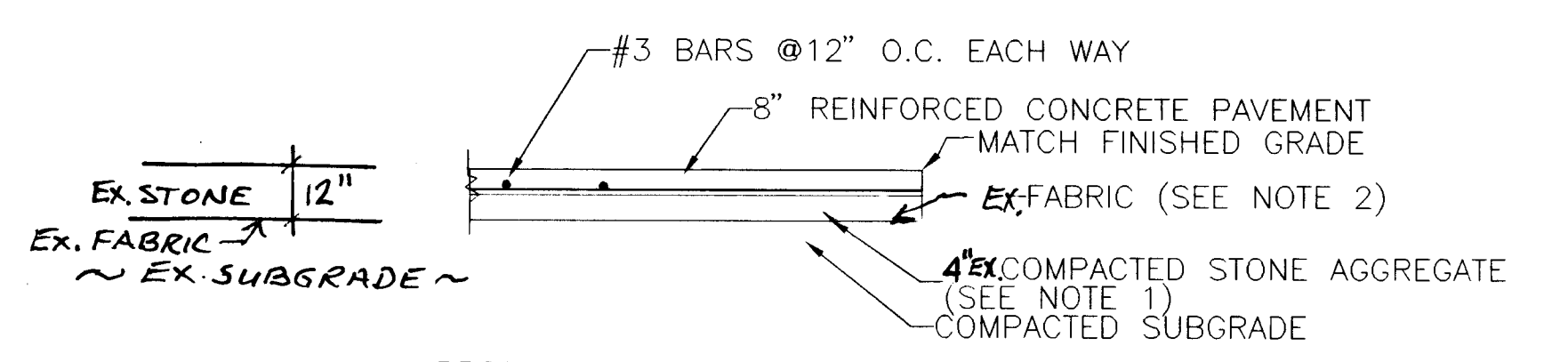
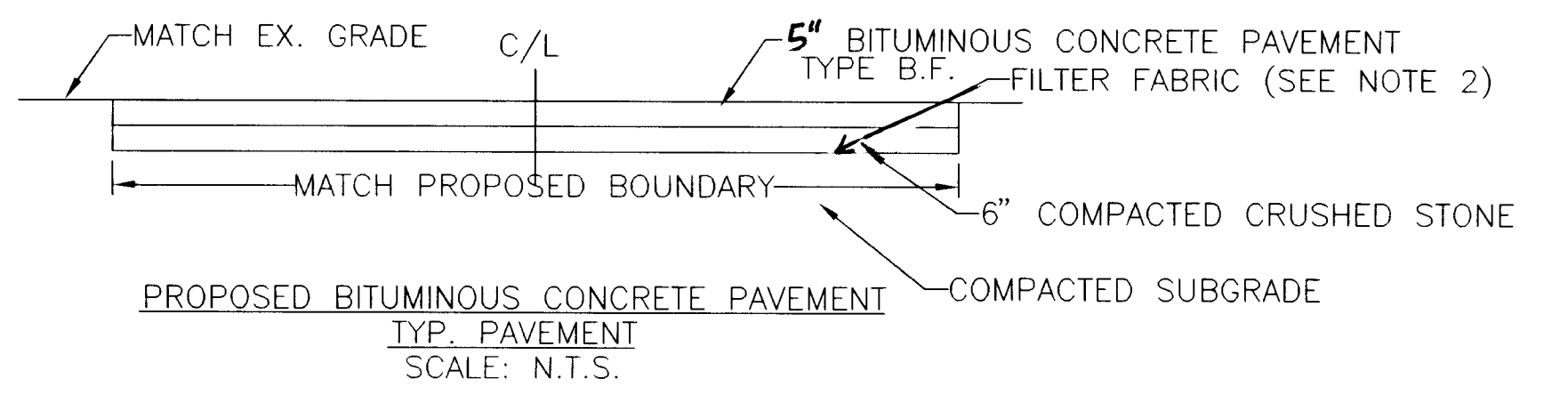
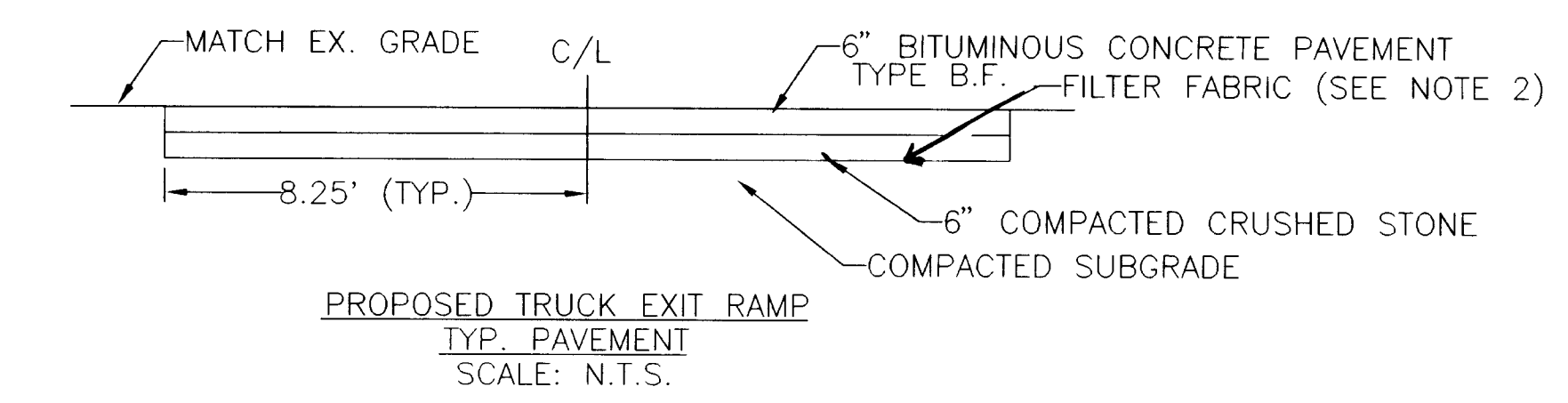
RoadCalc Alignment

Alignment Name : Centerline  
 Beginning Station : 10+00.00  
 Ending Station : 11+80.66

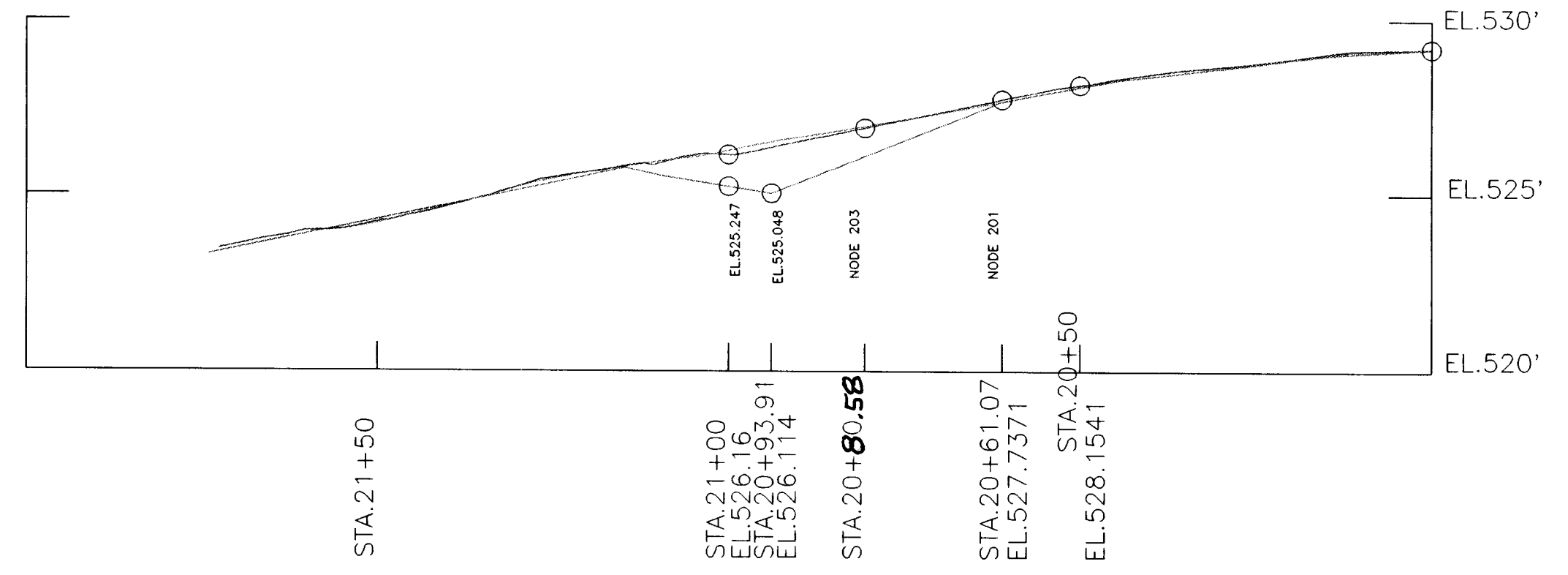
node #	station	offset	elev	descrip	north	east
100	10+00.06	0.00R	0.000	B.O.P.	596738.56	1339393.22
101	10+34.29	0.00	0.000	P.C.	596730.63	1339359.92
102	11+12.83	50.00L	0.000	C.P.#1	596681.99	1339371.50
103	10+43.82	8.25R	0.000	RIGHT PVMT MATCH LEFT ALG	596735.07	1339347.52
104	10+54.21	8.25R	0.000	RIGHT PVMT MATCH ALGN #2	596728.98	1339337.08
105	10+65.51	8.25R	0.000	END OF TRUCK EXIT PAVING	596720.07	1339327.43
106	10+82.73	0.00	0.000	C/L ALGN #1 MATCH ALGN #2	596699.98	1339324.85
107	11+00.08	0.00	0.000	BEGIN 2' RE-PAVE	596683.05	1339321.51
108	11+12.83	0.00L	0.000	P.T.	596670.40	1339322.86
109	11+25.25	0.00L	0.000	BEGIN 4' RE-PAVE	596658.32	1339325.74
110	11+42.03	0.00L	0.000	E.O.P. END 4' REPAVE	596642.00	1339329.63

Alignment Name : Centerline  
 Beginning Station : 20+00.00  
 Ending Station : 21+74.85

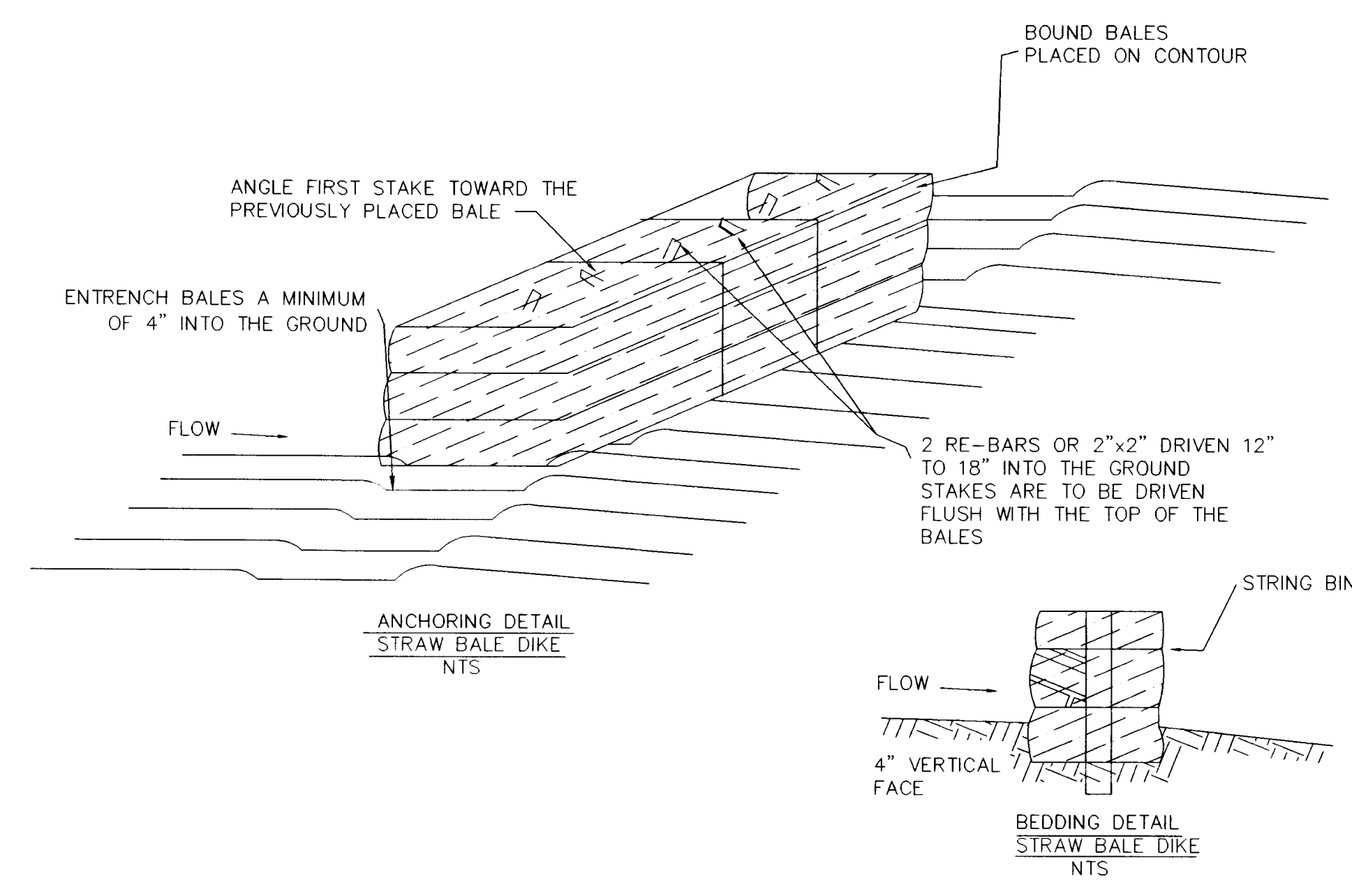
node #	station	offset	elev	descrip	north	east
200	20+00.00	0.00	0.000	B.O.P.	596776.62	1339410.13
201	20+61.07	0.00	0.000	RE-PAVE C/L TO RIGHT EDGE	596755.77	1339353.63
202	20+61.07	9.03L	0.000	OF PAVEMENT NODE 202 TO	596748.55	1339359.06
203	20+80.58	0.00	0.000	RIGHT EDGE ALIGNMENT "A"	596742.68	1339339.20



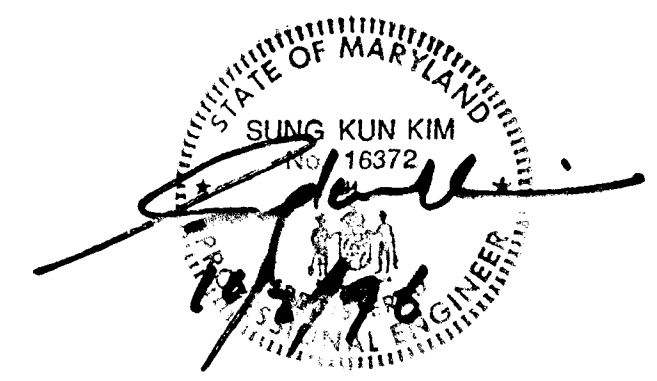
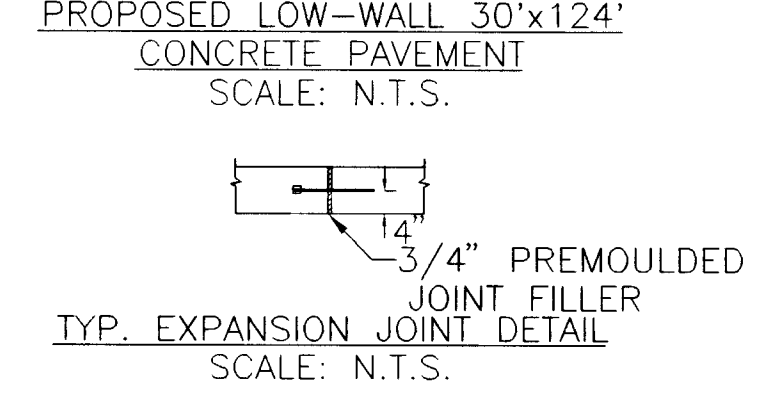
TRUCK EXIT RAMP  
ALIGNMENT "A"  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



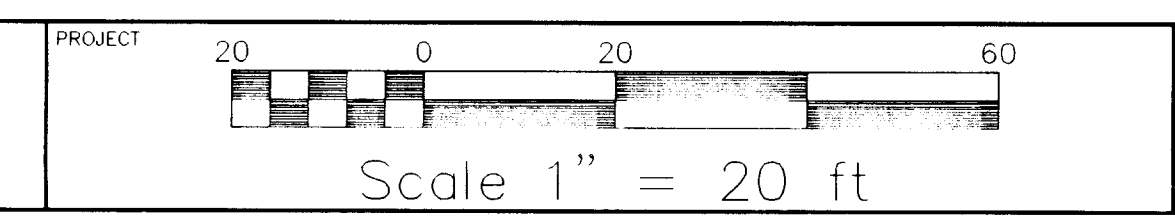
UTILITY VEHICLE EXIT RAMP  
ALIGNMENT "B"  
SCALE: HORIZONTAL 1" = 20'  
VERTICAL 1" = 5'



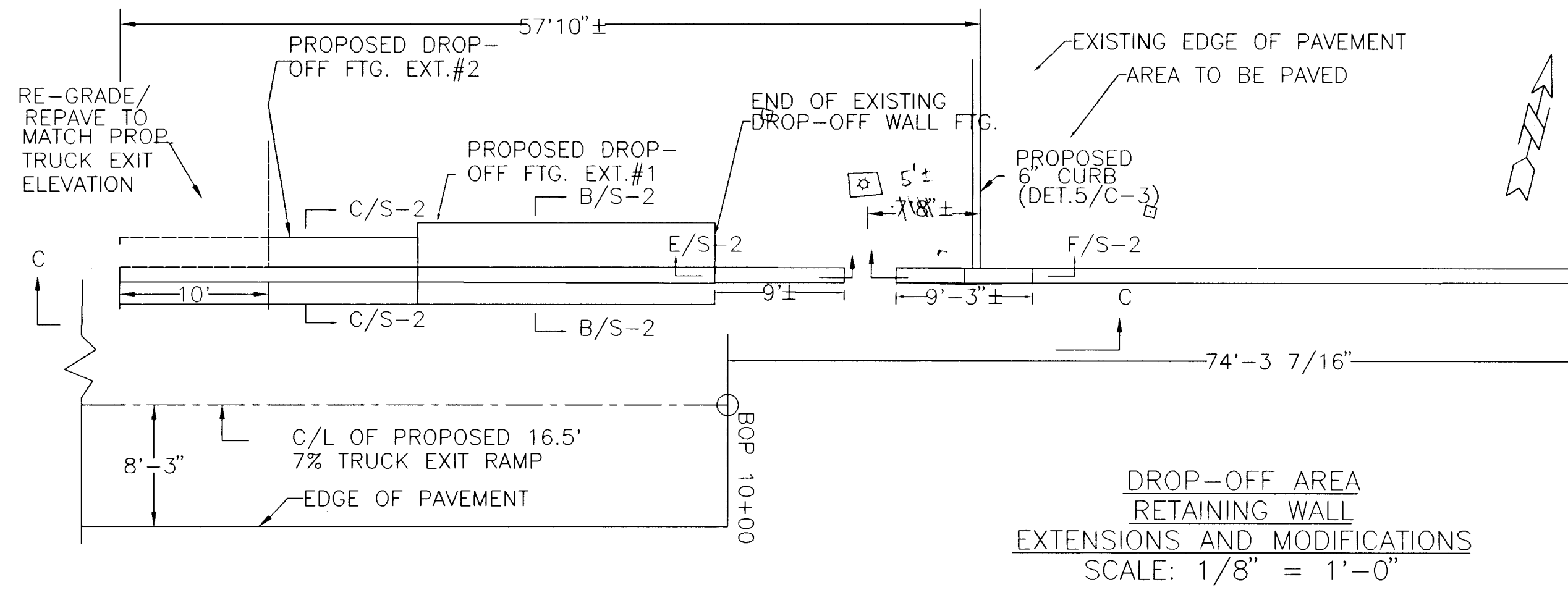
- NOTES:
- EXISTING 8"± NON-REINFORCED CURB CONCRETE AND OTHER DEMOLISHED CLEAN CONCRETE STONES ARE TO BE RE-USED AS THE COMPACTED CRUSHED STONE BASE FOR THE PROPOSED BIT. CONCRETE PAVEMENT AND OTHER AREAS PER HOWARD COUNTY APPROVAL.
  - WOVEN POLYPROPYLENE AMOCO 2002 OR EQUAL.



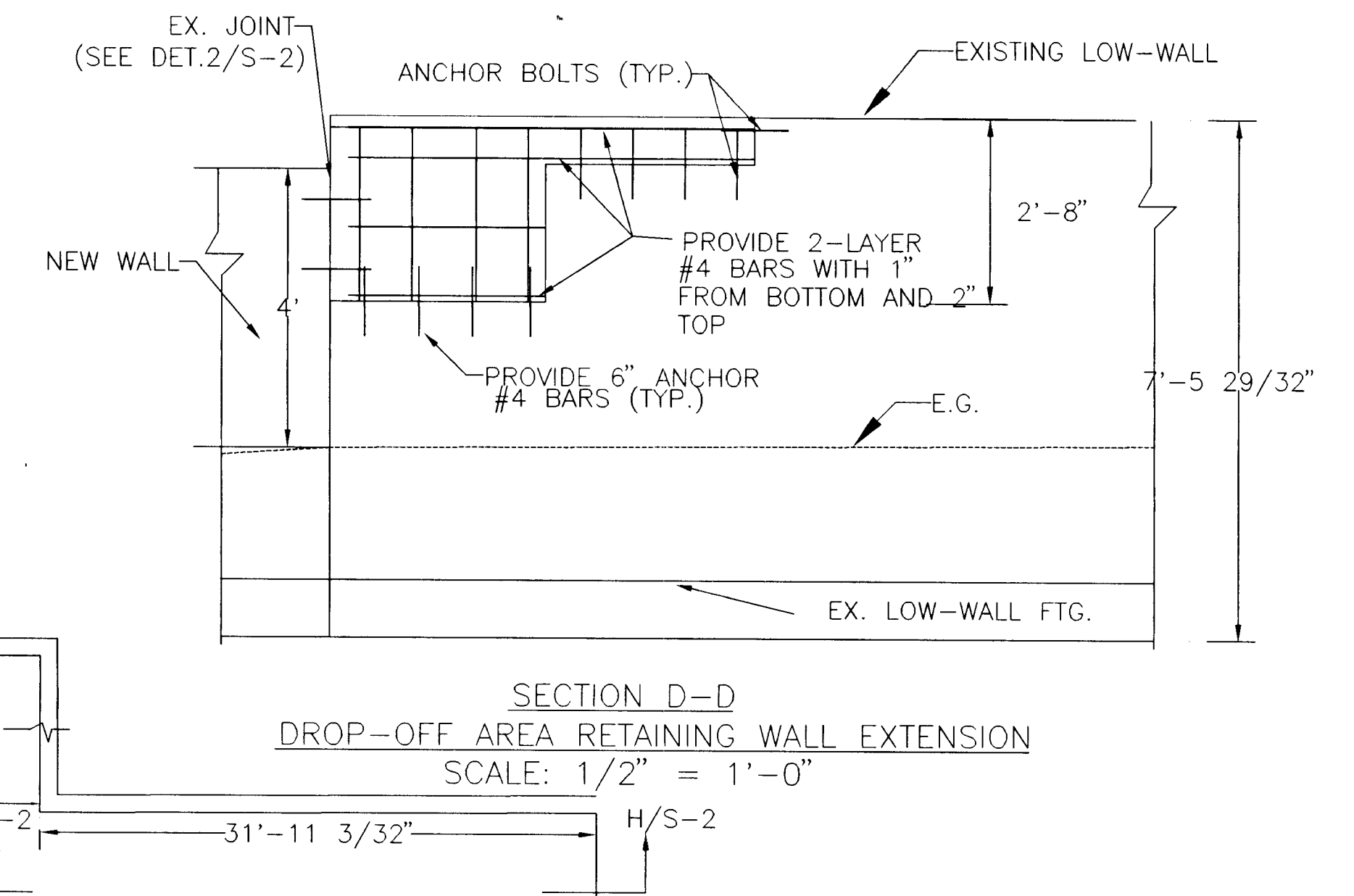
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DATE:	PROJ. NO.:	
DWG. NO.:	DWG.:	



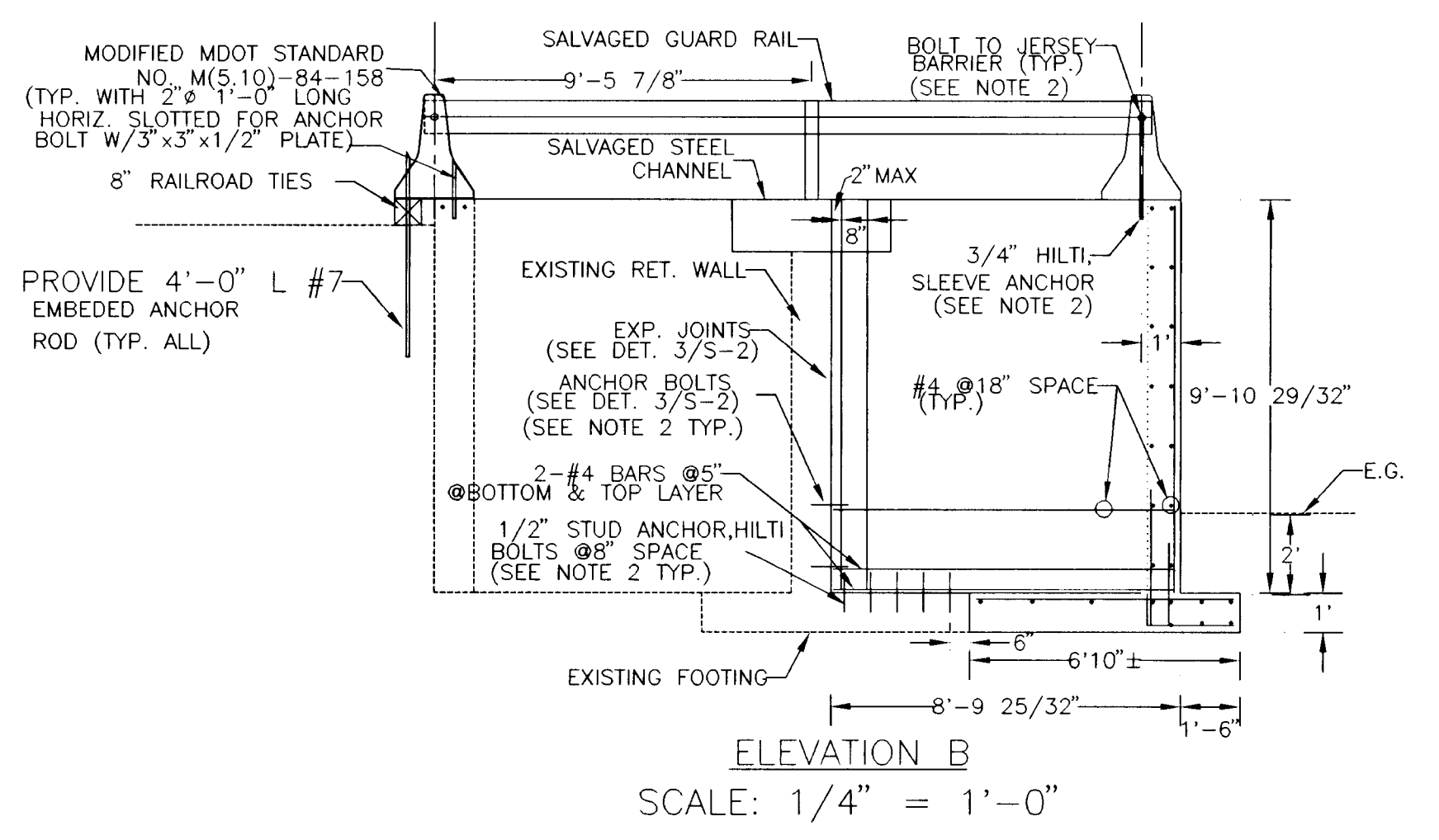
PROJECT: PROPOSED TRUCK EXIT RAMP, UTILITY VEHICLE EXIT RAMP, HORIZONTAL AND VERTICAL ALIGNMENT, AND MISCELLANEOUS DETAILS	SHT. NO.: C-3
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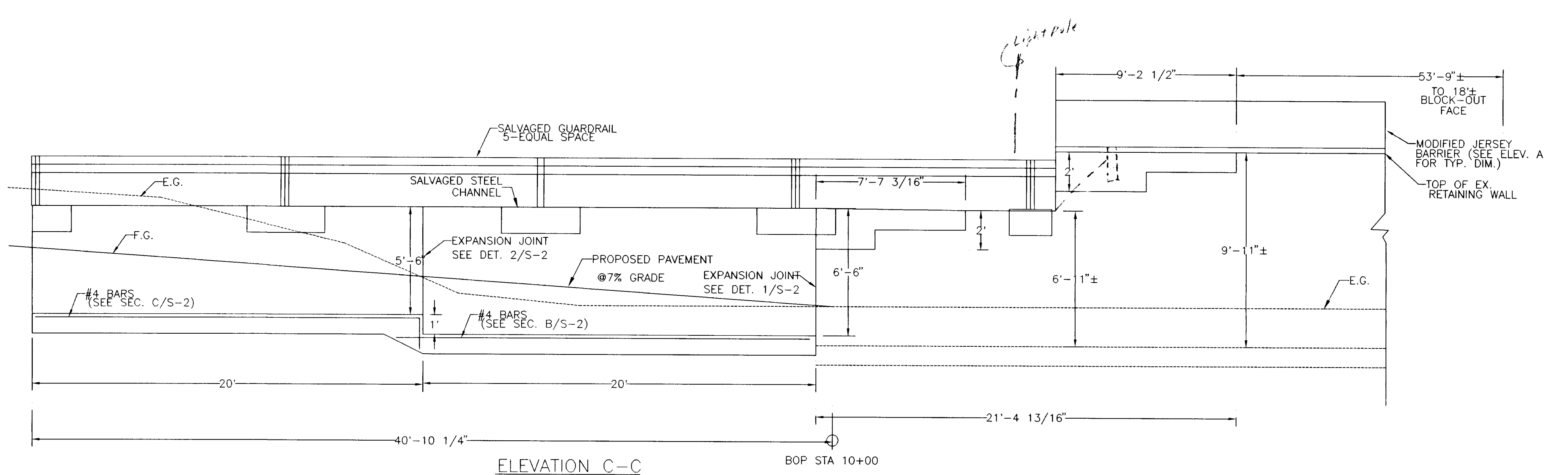
**DROP-OFF AREA  
RETAINING WALL  
EXTENSIONS AND MODIFICATIONS**  
SCALE: 1/8" = 1'-0"



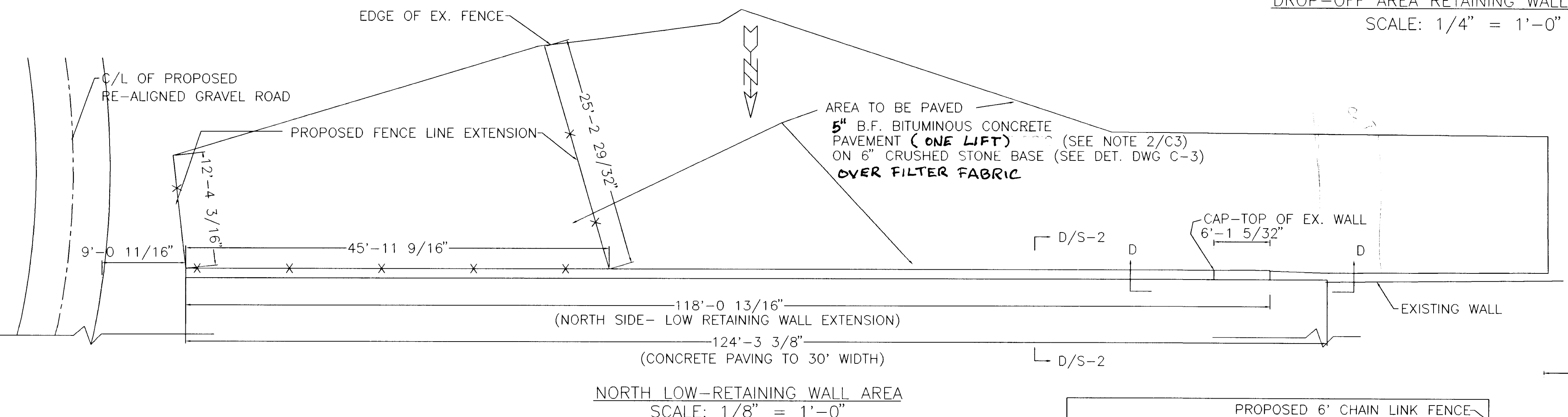
**SECTION D-D  
DROP-OFF AREA RETAINING WALL EXTENSION**  
SCALE: 1/2" = 1'-0"



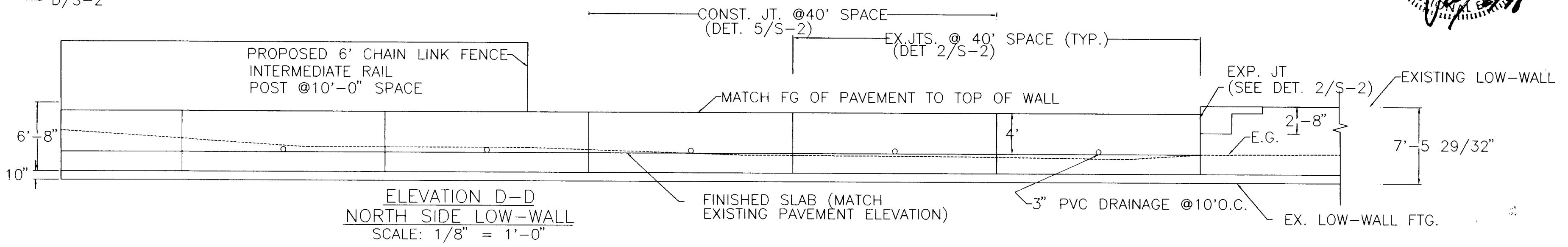
**ELEVATION B**  
SCALE: 1/4" = 1'-0"



**ELEVATION C-C  
DROP-OFF AREA RETAINING WALL EXTENSION**  
SCALE: 1/4" = 1'-0"

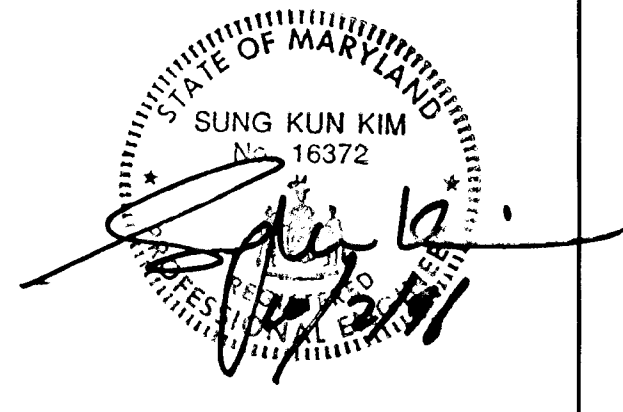


**NORTH LOW-RETAINING WALL AREA**  
SCALE: 1/8" = 1'-0"



**ELEVATION D-D  
NORTH SIDE LOW-WALL**  
SCALE: 1/8" = 1'-0"

- NOTE:**
1. AT LOW-WALL AREA, FINISHED PAVING ELEVATION TO MATCH TOP OF WALL ELEVATION.
  2. STUD ANCHORS TO BE MINIMUM EMBEDMENT OF 6" ON BOTH ENDS. SLEEVE ANCHORS MINIMUM EMBEDMENT OF 6", HILTI-TYPE BOLTS OR EQUAL.
  3. PVC DRAINAGE PIPE TO MATCH EXISTING PIPE HOLES FROM EXISTING WALL AND LOCATE POSITION ON NEW WALL AS THE SHORTEST ROUTE TO FINISHED PAVING.



DRAWN BY: DATE: DWG. NO.	APPROVED BY: PROJ. NO. DWG.	REVISIONS	PROJECT 1 0 1 3 Scale 1/8" = 1 ft	SHT. NAME PLANS, ELEVATIONS, AND SECTIONS	SHT. NO. S-1
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