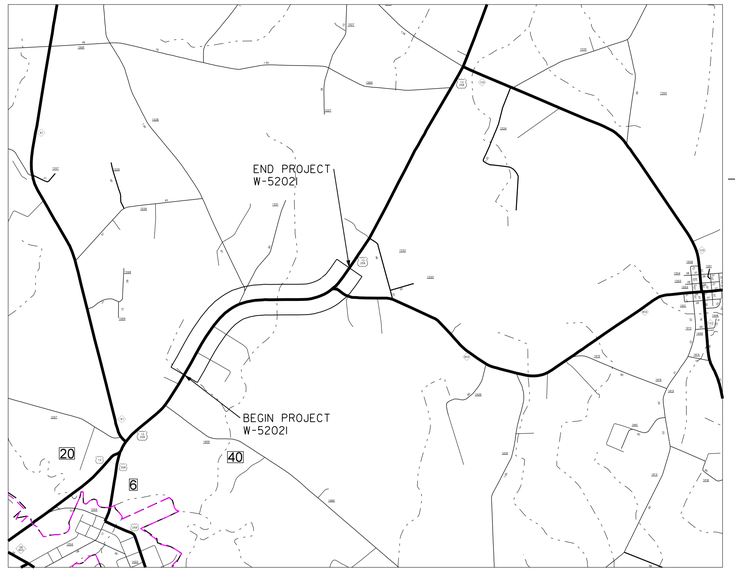
09/08/99

TIP PROJECT: W-5202I

CONTRACT:

See Sheet 1-A For Index of Sheets



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GREENE COUNTY

LOCATION: 0.3 MILE NORTH AND 1.2 MILES SOUTH OF NC HWY 903 ON US 13/258

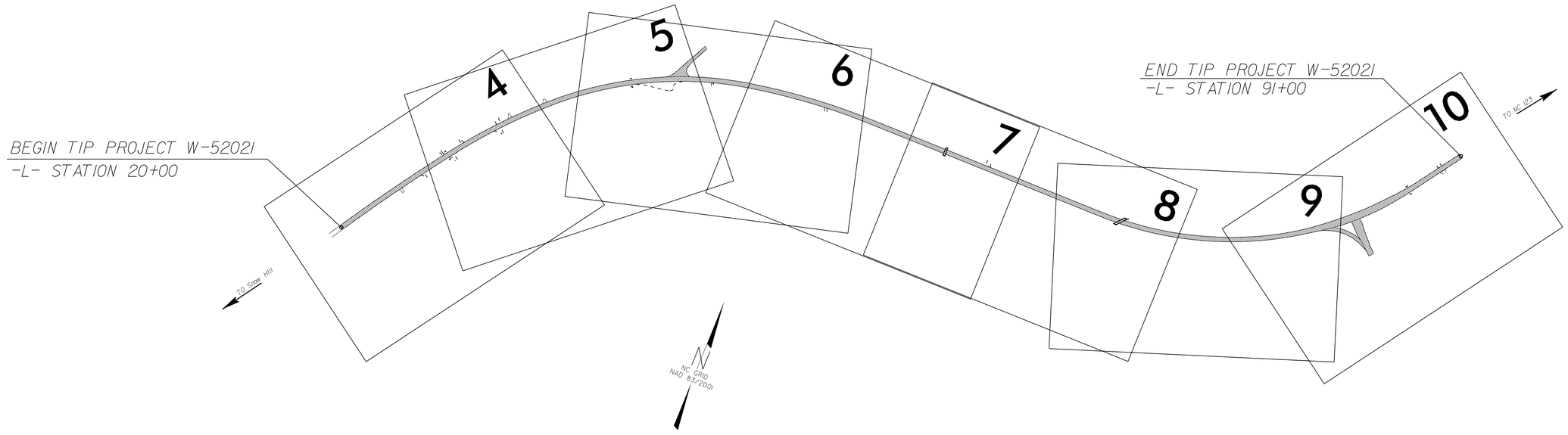
TYPE OF WORK: GRADING, PAVING AND DRAINAGE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5202I	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
45332.3.9	HSIP-0013(39)	CONST	

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		



GRAPHIC SCALES

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PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

PROJECT LENGTH

PROJECT W-5202I LENGTH = 1.5 MILES

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared In the Office of:

DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:
SEPTEMBER 2013

DWAYNE H. ALLIGOOD
PROJECT ENGINEER

LANG JONES (#276)
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD

SIGNATURE: Dwayne H. Alligood *P.E.* 09/05/2013

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD

SIGNATURE: Dwayne H. Alligood *P.E.* 09/05/2013

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

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PROJECT REFERENCE NO.	SHEET NO.
W-52021	1A

8/17/99

REVISIONS

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF EARTHWORK
4-10	PLAN AND PROFILE SHEETS
X1-X11	CROSS-SECTIONS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-2012
REVISED: 07-30-2012

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04
SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

EFF. 01-17-2012
REV. 10-30-2012

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I

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04/16/11

PROJECT REFERENCE NO.	SHEET NO.
W-5202I	1B

Note: Not to Scale

S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary — WLB
- Proposed Wetland Boundary — WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area or Site

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- Foundation
- Area Outline
- Cemetery
- Building
- School
- Church
- Dam

HYDROLOGY:

- Stream or Body of Water
- Hydro, Pool or Reservoir
- Jurisdictional Stream — JS
- Buffer Zone 1 — BZ 1
- Buffer Zone 2 — BZ 2
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY:

- Baseline Control Point
- Existing Right of Way Marker
- Existing Right of Way Line
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite R/W Marker — RW
- Proposed Control of Access Line with Concrete C/A Marker — CA
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Drainage / Utility Easement — DUE
- Proposed Permanent Utility Easement — PUE
- Proposed Temporary Utility Easement — TUE
- Proposed Aerial Utility Easement — AUE
- Proposed Permanent Easement with Iron Pin and Cap Marker

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Curb Ramp — CR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — Vineyard

EXISTING STRUCTURES:

MAJOR:

- Bridge, Tunnel or Box Culvert — CONC
- Bridge Wing Wall, Head Wall and End Wall — CONC WW

MINOR:

- Head and End Wall — CONC HW
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB — CB
- Paved Ditch Gutter
- Storm Sewer Manhole — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H–Frame Pole
- Recorded U/G Power Line — P
- Designated U/G Power Line (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- Recorded U/G Telephone Cable — T
- Designated U/G Telephone Cable (S.U.E.*) — T
- Recorded U/G Telephone Conduit — TC
- Designated U/G Telephone Conduit (S.U.E.*) — TC
- Recorded U/G Fiber Optics Cable — T FO
- Designated U/G Fiber Optics Cable (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- Recorded U/G Water Line — W
- Designated U/G Water Line (S.U.E.*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Satellite Dish
- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- Recorded U/G TV Cable — TV
- Designated U/G TV Cable (S.U.E.*) — TV
- Recorded U/G Fiber Optic Cable — TV FO
- Designated U/G Fiber Optic Cable (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- Recorded U/G Gas Line — G
- Designated U/G Gas Line (S.U.E.*) — G
- Above Ground Gas Line — A/G Gas

SANITARY SEWER:

- Sanitary Sewer Manhole
- Sanitary Sewer Cleanout
- U/G Sanitary Sewer Line — SS
- Above Ground Sanitary Sewer — A/G Sanitary Sewer
- Recorded SS Forced Main Line — FSS
- Designated SS Forced Main Line (S.U.E.*) — FSS

MISCELLANEOUS:

- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

8/17/99

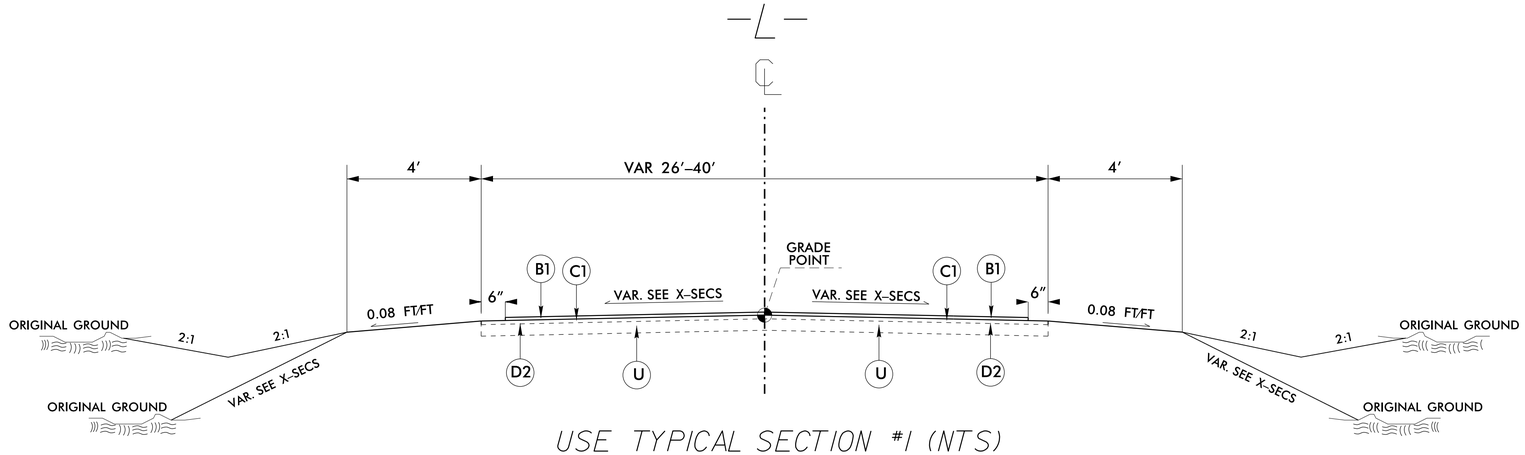
REVISIONS

B1	PROP. APPROX. 5/8″ OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MODIFIED AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD
C1	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
D2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1″ DEPTH.
U	EXISTING PAVEMENT.

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PROJECT REFERENCE NO.	SHEET NO.
W-52021	2
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAINE H. ALLIGOOD	NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAINE H. ALLIGOOD
09/05/2013	09/05/2013



USE TYPICAL SECTION #1 (NTS)

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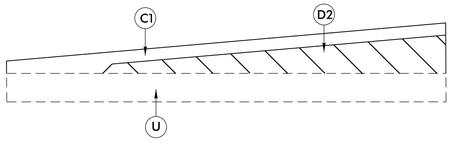

WEDGING DETAIL

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PROJECT REFERENCE NO.	SHEET NO.
W-52021	3

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

ITEM	SECT	QUANTITY	UNIT	ITEM DESCRIPTION
1	800	1	LS	MOBILIZATION
2	801	1	LS	CONSTRUCTION SURVEYING
3	226	1	LS	GRADING
4	226	200	CY	UNDERCUT EXCAVATION
5	545	300	TON	INCIDENTAL STONE BASE
6	610	5500	TON	ASPHALT CONCRETE INTERMEDIATE COURSE,TYPE I19.0B
7	610	2400	TON	ASPHALT CONCRETE SURFACE COURSE,TYPE S9.5B
8	620	410	TON	ASPHALT BINDER FOR PLANT MIX
9	620	65	TON	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX
10	650	1000	TON	OPEN-GRADED ASPHALT FRICTION COURSE,TYPE FC-1 MODIFIED
11	1105	1	LS	TEMPORARY TRAFFIC CONTROL
12	1205	18000	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4",90 MILS)
13	1205	18000	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4",120 MILS)
14	1205	10	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
15	1605	1300	LF	TEMPORARY SILT FENCE
16	1610	10	TON	STONE FOR EROSION CONTROL,CLASS B
17	1610	5	TON	SEDIMENT CONTROL STONE
18	1615	1	ACRE	TEMPORARY MULCHING
19	1631	1500	SY	MATTING FOR EROSION CONTROL
20	1632	20	LF	1/4" HARDWARE CLOTH
21	SP	2000	LF	WATTLE
22	SP	100	LB	POLYACRYLAMIDE (PAM)
23	1660	2	ACRE	SEEDING AND MULCHING
24	1661	50	LB	SEED FOR REPAIR SEEDING
25	1661	0.2	TON	FERTILIZER FOR REPAIR SEEDING

REVISIONS

8/17/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
W-52021	3A

NOTE:

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING."

SUMMARY OF EARTHWORK
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
–L– 28+00.00 – 91+00.00	1202	0	2487	1285	0
UNDERCUT (CONTINGENCY)		100	120	120	100
SUB TOTAL	1202	100	2607	1405	100
SAY	1210	100	2610	1410	100

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 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.

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-52021	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD

09/05/2013

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD

09/05/2013

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PLANS

LEGEND:

- WATTLE
- WATTLE WITH POLYACRYLAMIDE
- PROPOSED DRAINAGE DITCH FLOW LINE
- TEMPORARY SILT FENCE

NC GRID NAD 83/2001

-L- PT Sta. 27+18.89

-L- PC Sta. 27+68.86

CONTROL POINT #18
N 638969.6118
E 2399991.9468
ELEV. 51.66

CONTROL POINT #989
N 639471.6928
E 2400322.8918
ELEV. 49.81

N 35° 25' 27.8" E

BEGIN RESURFACING AND ASPHALT FRICTION COURSE OVERLAY
-L- STA. 20+00.00

-L- PI Sta. 21+77.57
Δ = 5° 23' 01.2" (RT)
D = 1° 29' 48.8"
L = 1,083.46'
T = 542.13'
R = 11,530.69'

-L- PI Sta. 30+82.31
Δ = 10° 49' 32.4" (RT)
D = 1° 43' 55.3"
L = 625.03'
T = 313.45'
R = 3,308.00'

-L- STA. 30+00.00
MATCHLINE SEE SHEET 5

EROSION CONTROL NOTES:

1. ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
2. ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.

-L- STA. 20+00.00

BEGIN GRADE
-L- STA. 28+00.00
EL=51.96

PI = 29+50.00
EL = 52.12'
VC = 203'

(+)0.1067%

(+)0.615

-L- STA. 30+00.00
MATCHLINE SEE SHEET 5

-L- PROFILE
SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-52021	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD

09/05/2013

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD

09/05/2013

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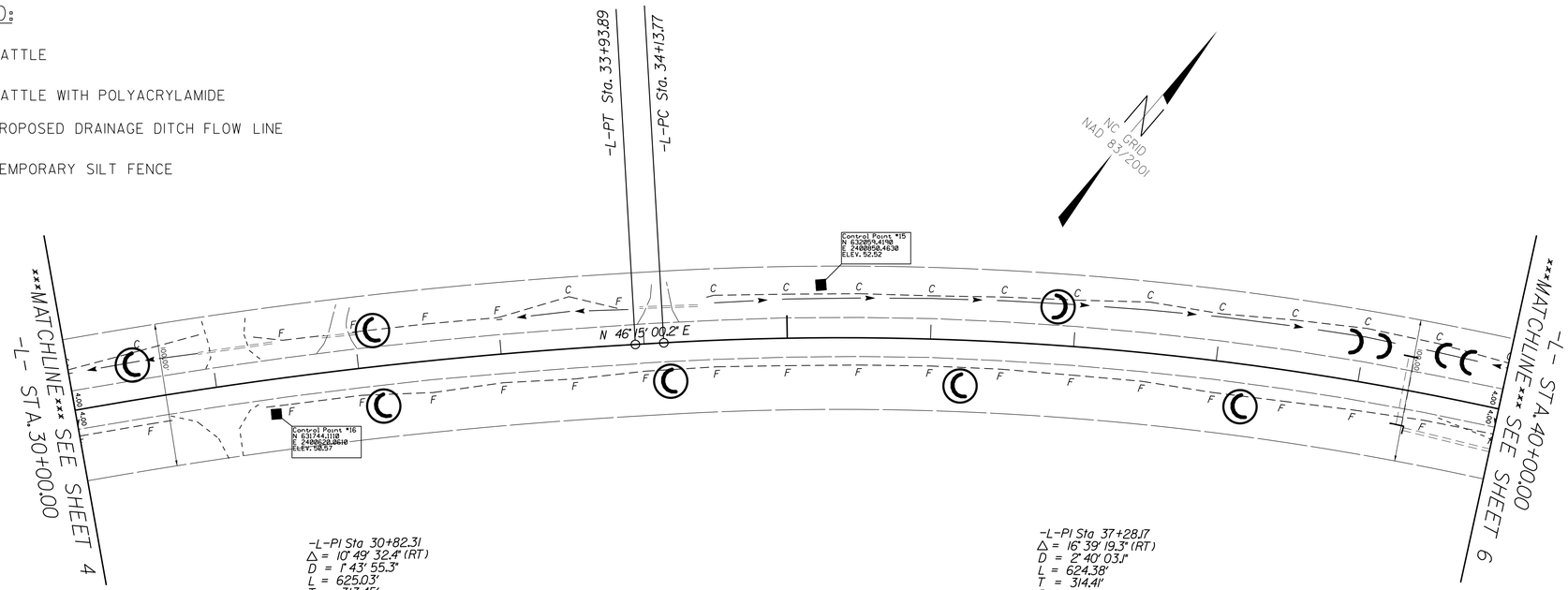
PLANS

LEGEND:

- WATTLE
- WATTLE WITH POLYACRYLAMIDE
- PROPOSED DRAINAGE DITCH FLOW LINE
- TEMPORARY SILT FENCE



EROSION CONTROL NOTES:

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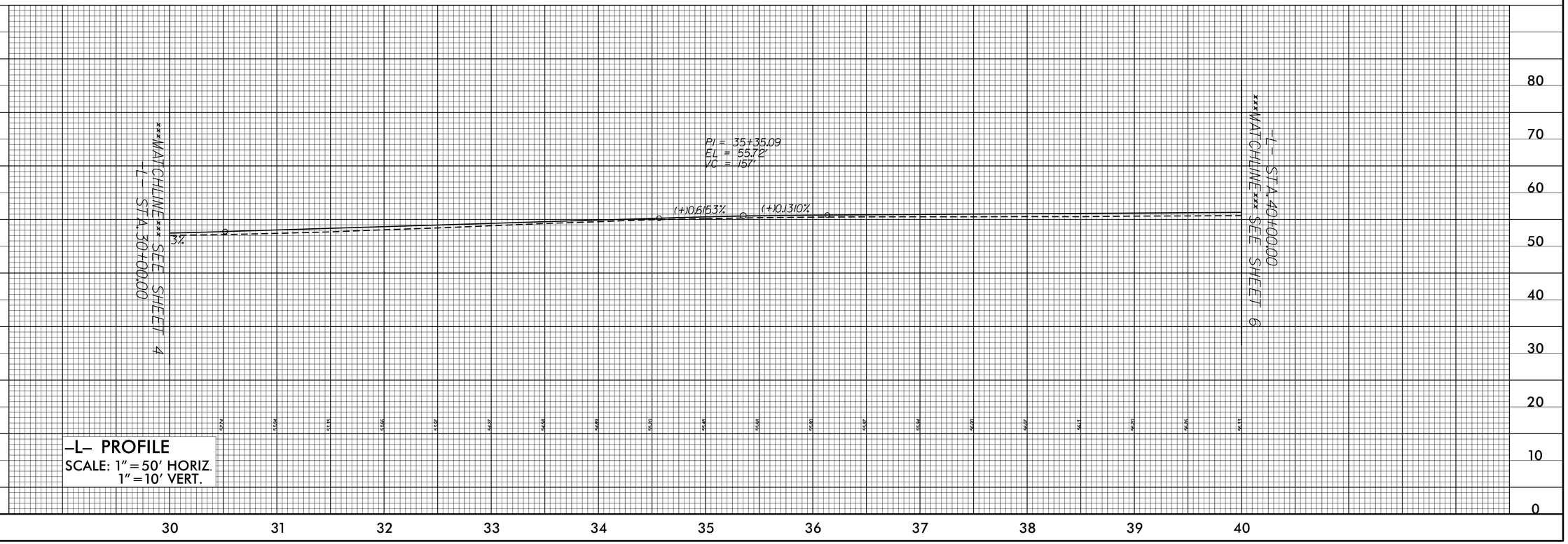

-L- PROFILE
SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

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8/17/99

REVISIONS

LEGEND:

- WATTLE
- WATTLE WITH POLYACRYLAMIDE
- PROPOSED DRAINAGE DITCH FLOW LINE
- TEMPORARY SILT FENCE

PROJECT REFERENCE NO.	SHEET NO.
W-52021	6
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD	NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD
09/05/2013	09/05/2013

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PLANS

EROSION CONTROL NOTES:

1. ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
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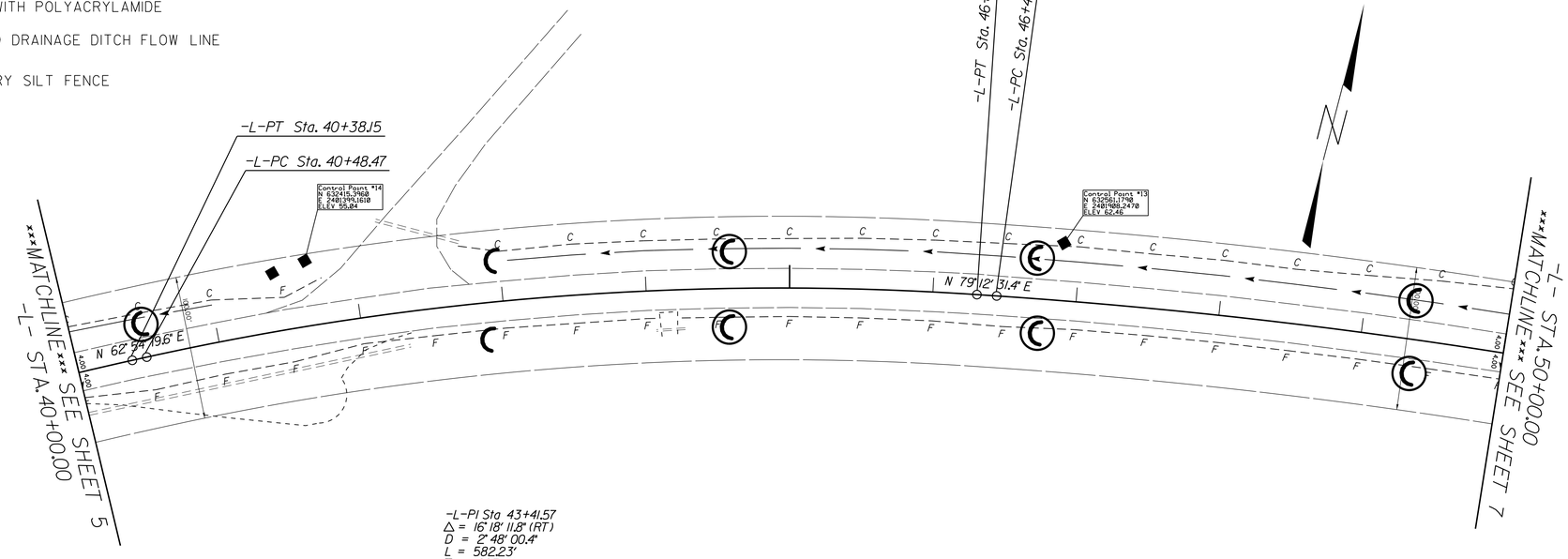

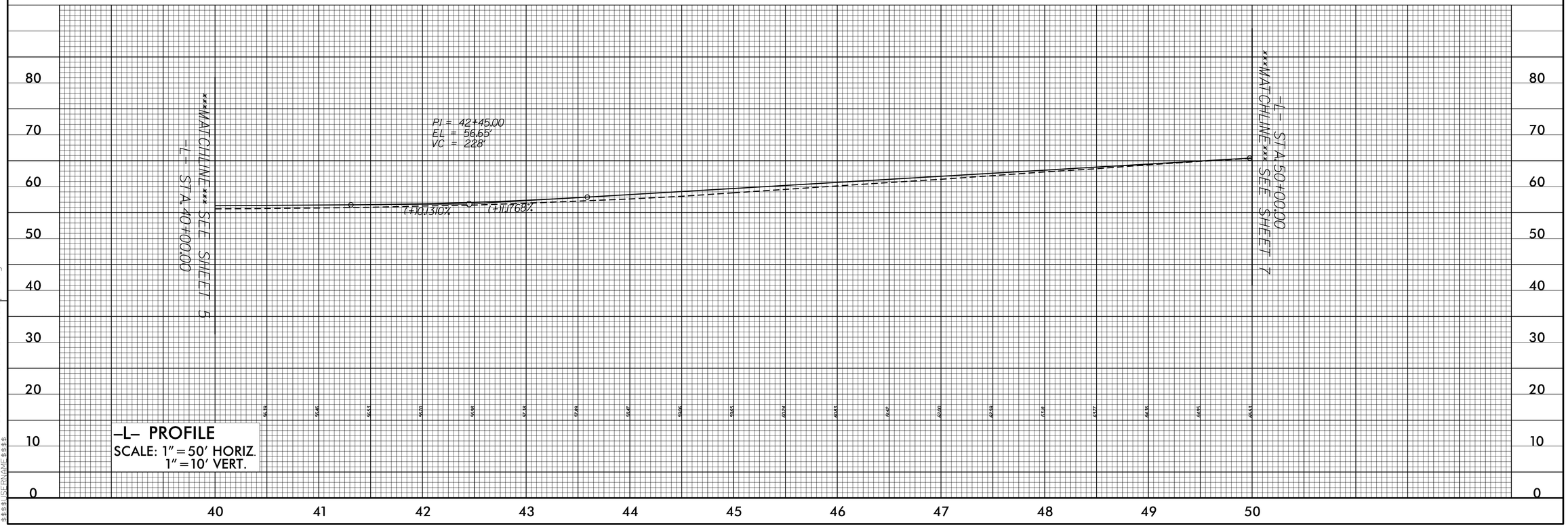

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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-52021	7
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD	NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD
09/05/2013	09/05/2013

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PLANS

LEGEND:

- WATTLE
- WATTLE WITH POLYACRYLAMIDE
- PROPOSED DRAINAGE DITCH FLOW LINE
- TEMPORARY SILT FENCE

EROSION CONTROL NOTES:

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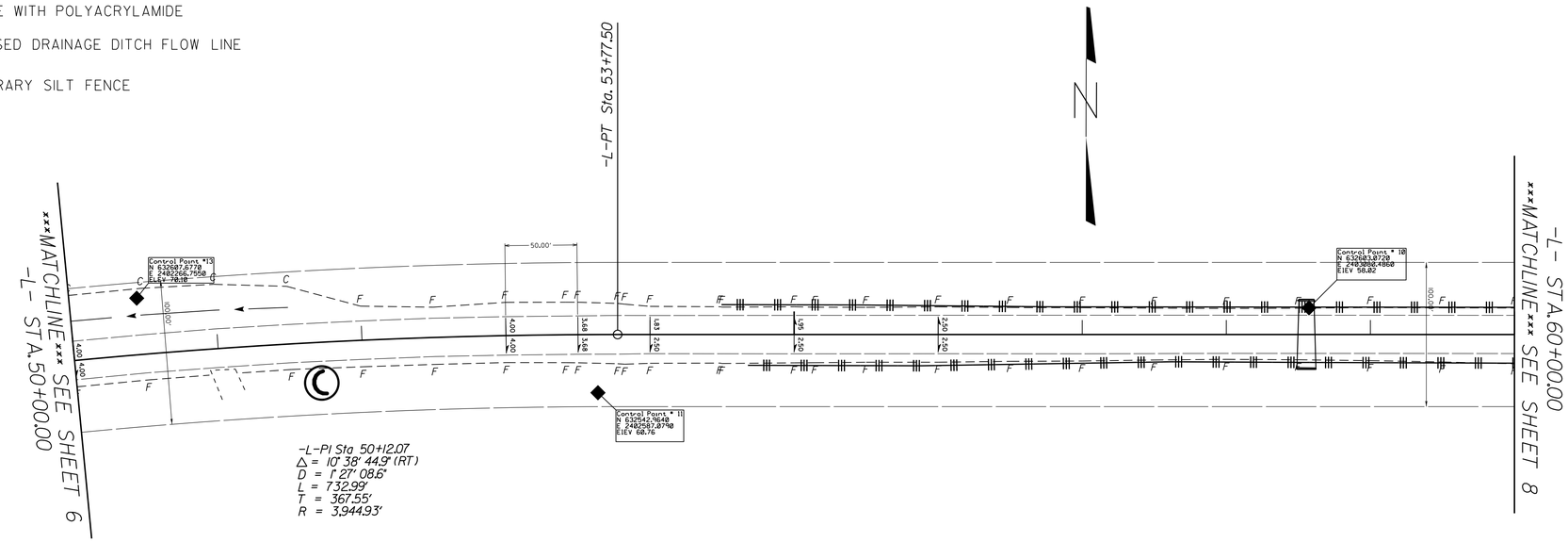
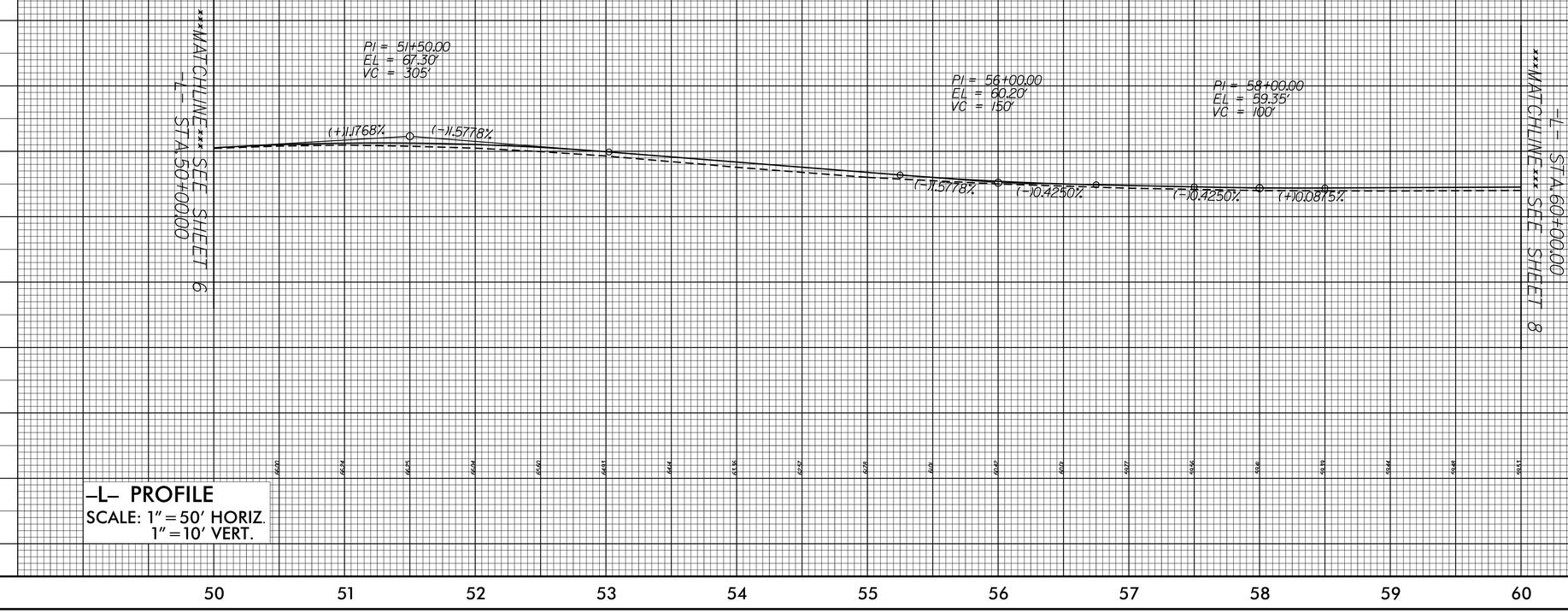
2. ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.





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1" = 10' VERT.

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PROJECT REFERENCE NO.	SHEET NO.
W-52021	8
R/W SHEET NO.	

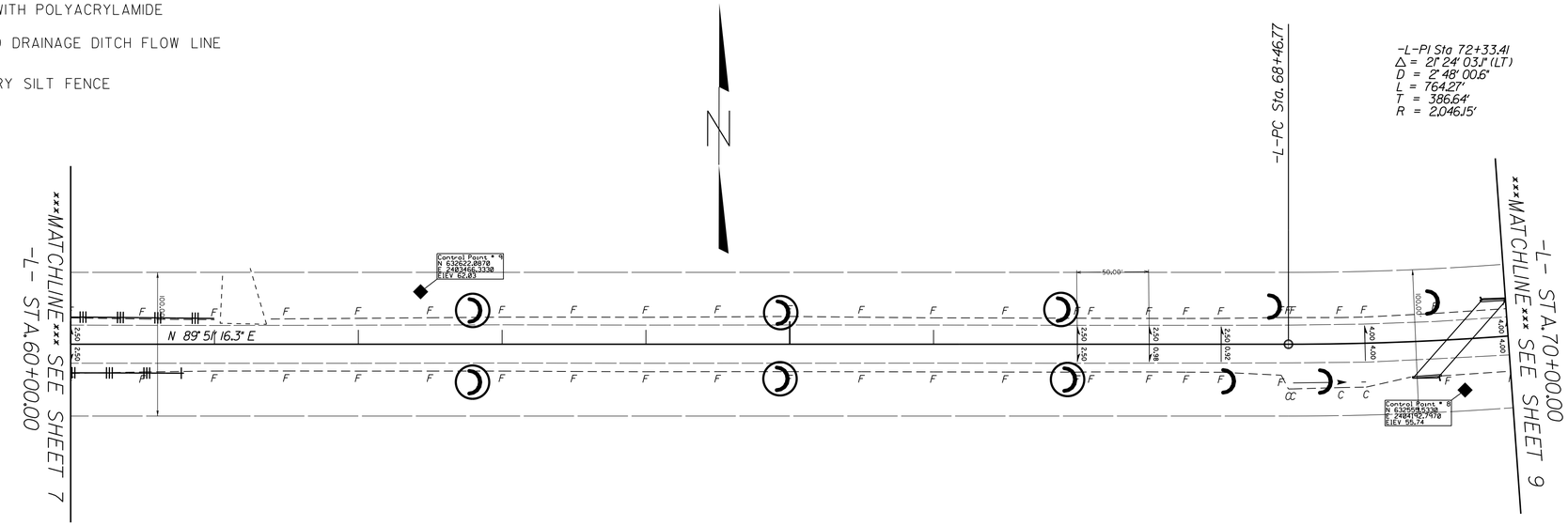
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD	NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD
09/05/2013	09/05/2013

50 25 0 50 100

PLANS

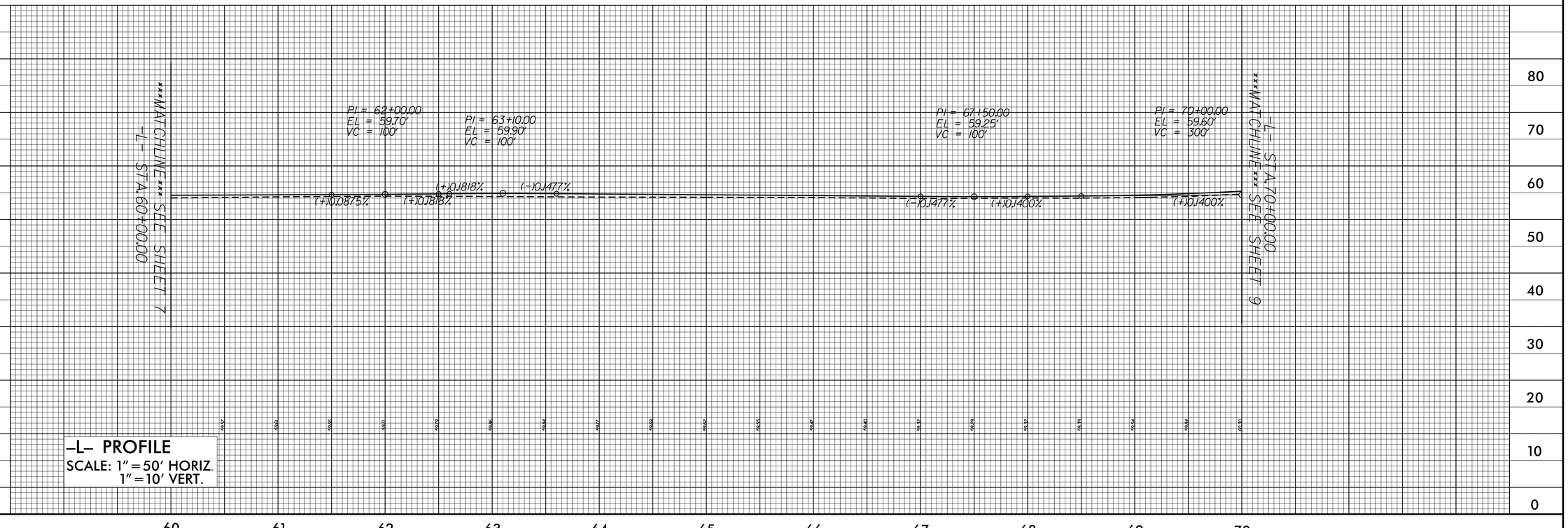
LEGEND:

- WATTLE
- WATTLE WITH POLYACRYLAMIDE
- PROPOSED DRAINAGE DITCH FLOW LINE
- TEMPORARY SILT FENCE



EROSION CONTROL NOTES:

1. ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
2. ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.



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REVISIONS

8/17/99

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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-52021	9
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD	NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER DWAYNE H. ALLIGOOD
09/05/2013	09/05/2013

50 25 0 50 100

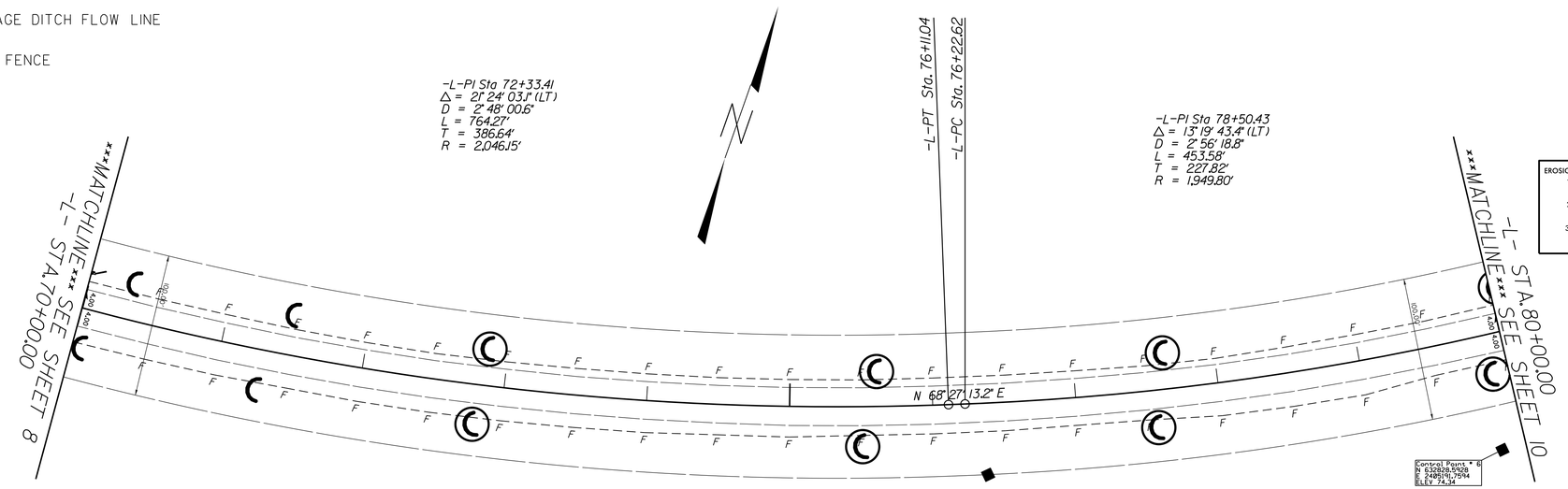
PLANS

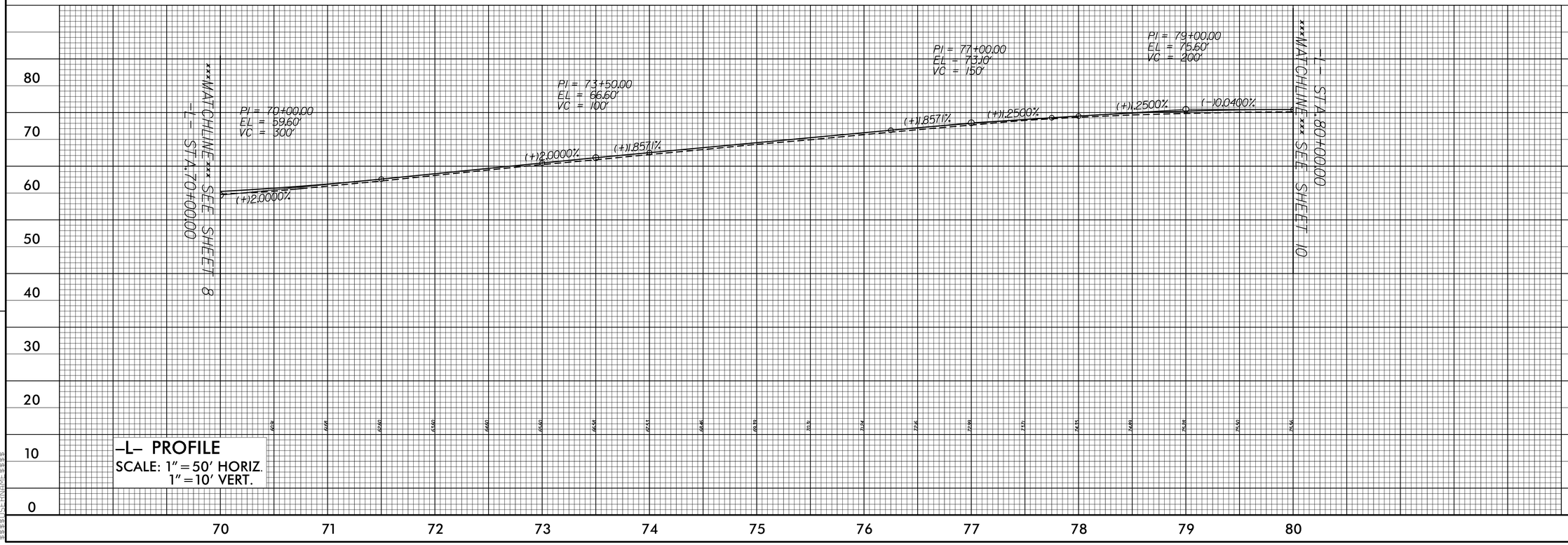
LEGEND:

- WATTLE
- WATTLE WITH POLYACRYLAMIDE
- PROPOSED DRAINAGE DITCH FLOW LINE
- TEMPORARY SILT FENCE

EROSION CONTROL NOTES:

1. ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
2. ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.





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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
W-52021	10
R/W SHEET NO.	

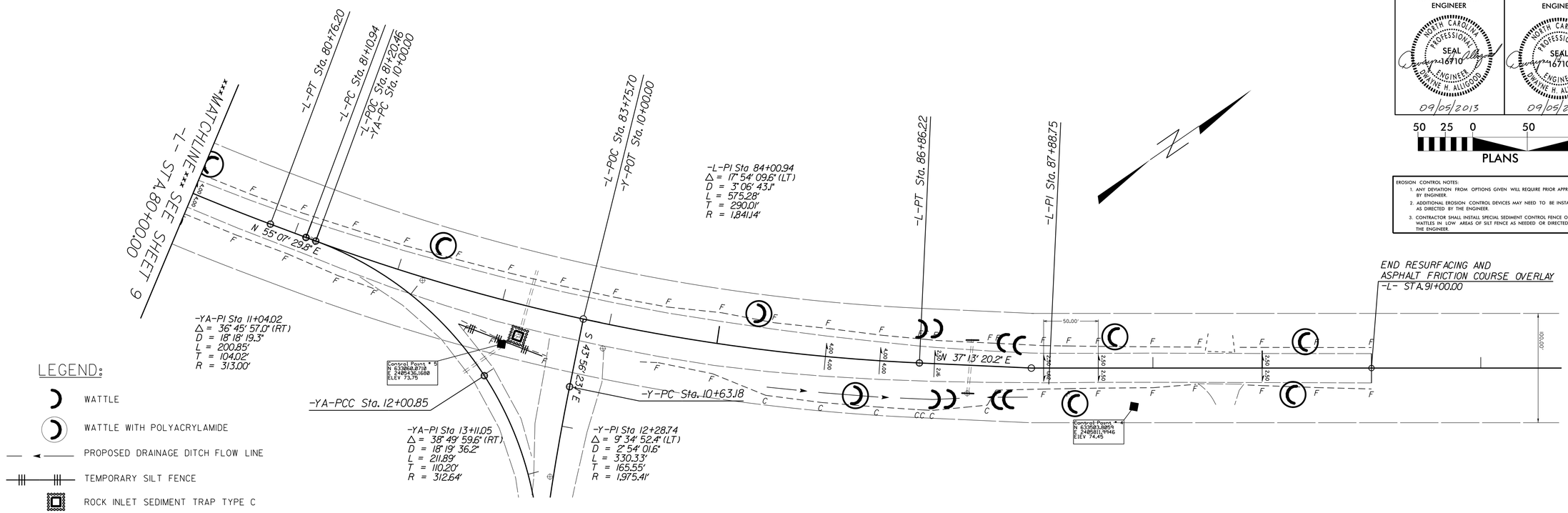
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER WAYNE H. ALLIGOOD	NORTH CAROLINA PROFESSIONAL SEAL 16710 ENGINEER WAYNE H. ALLIGOOD
09/05/2013	09/05/2013

50 25 0 50 100

PLANS

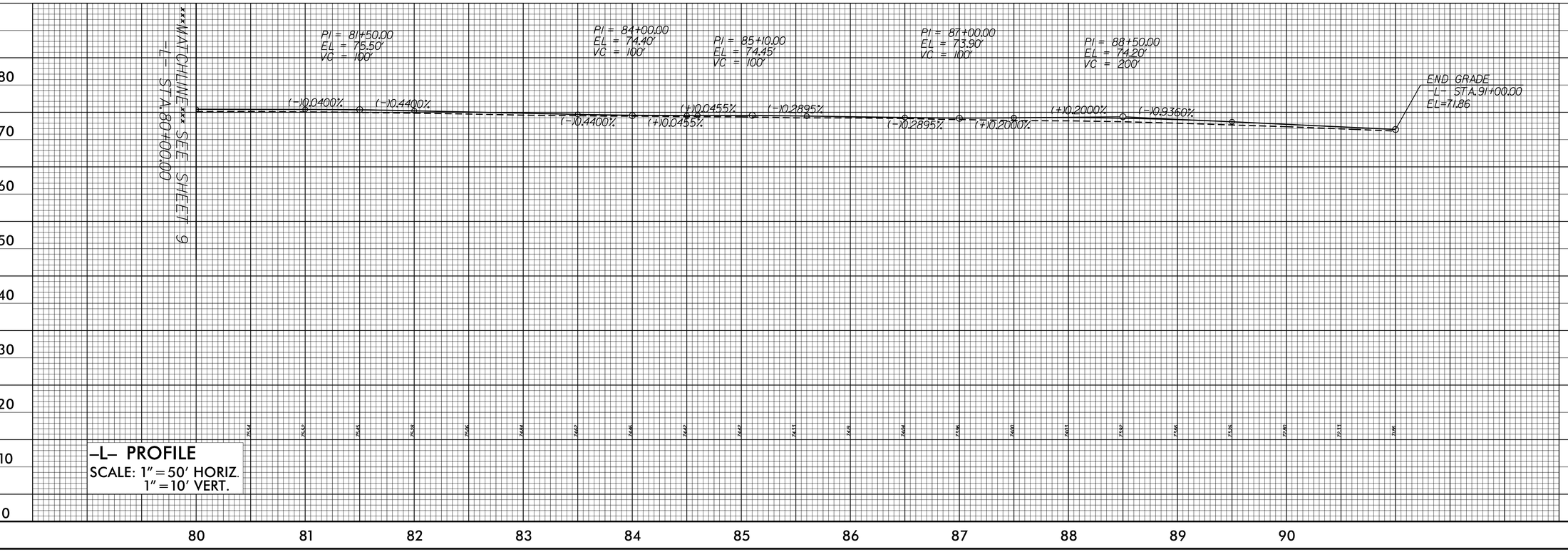
EROSION CONTROL NOTES:

1. ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
2. ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.



LEGEND:

- WATTLE
- WATTLE WITH POLYACRYLAMIDE
- PROPOSED DRAINAGE DITCH FLOW LINE
- TEMPORARY SILT FENCE
- ROCK INLET SEDIMENT TRAP TYPE C



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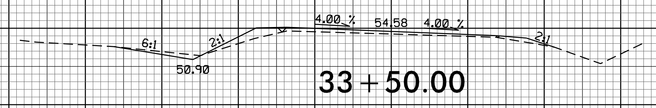

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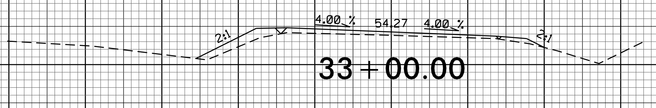

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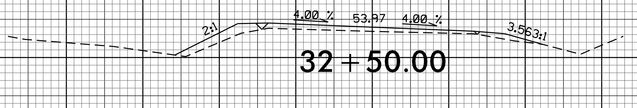

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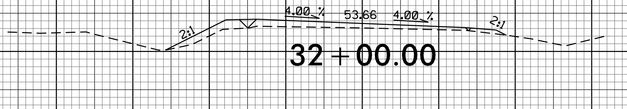

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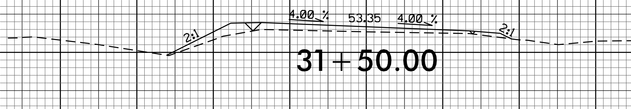

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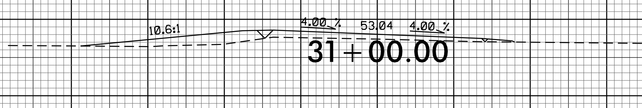

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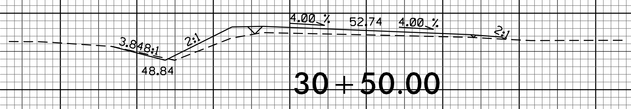

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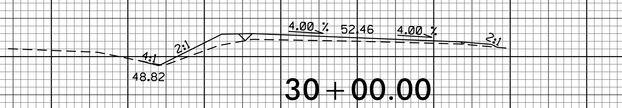

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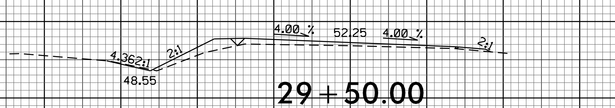

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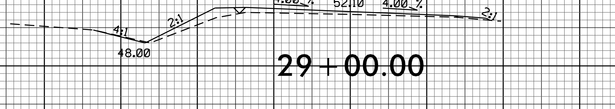

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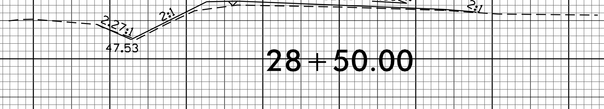

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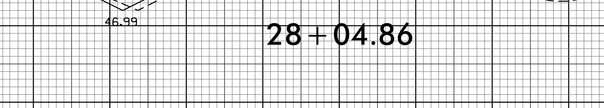

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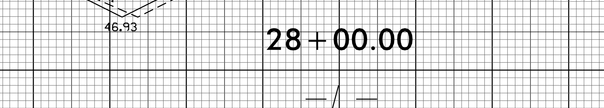

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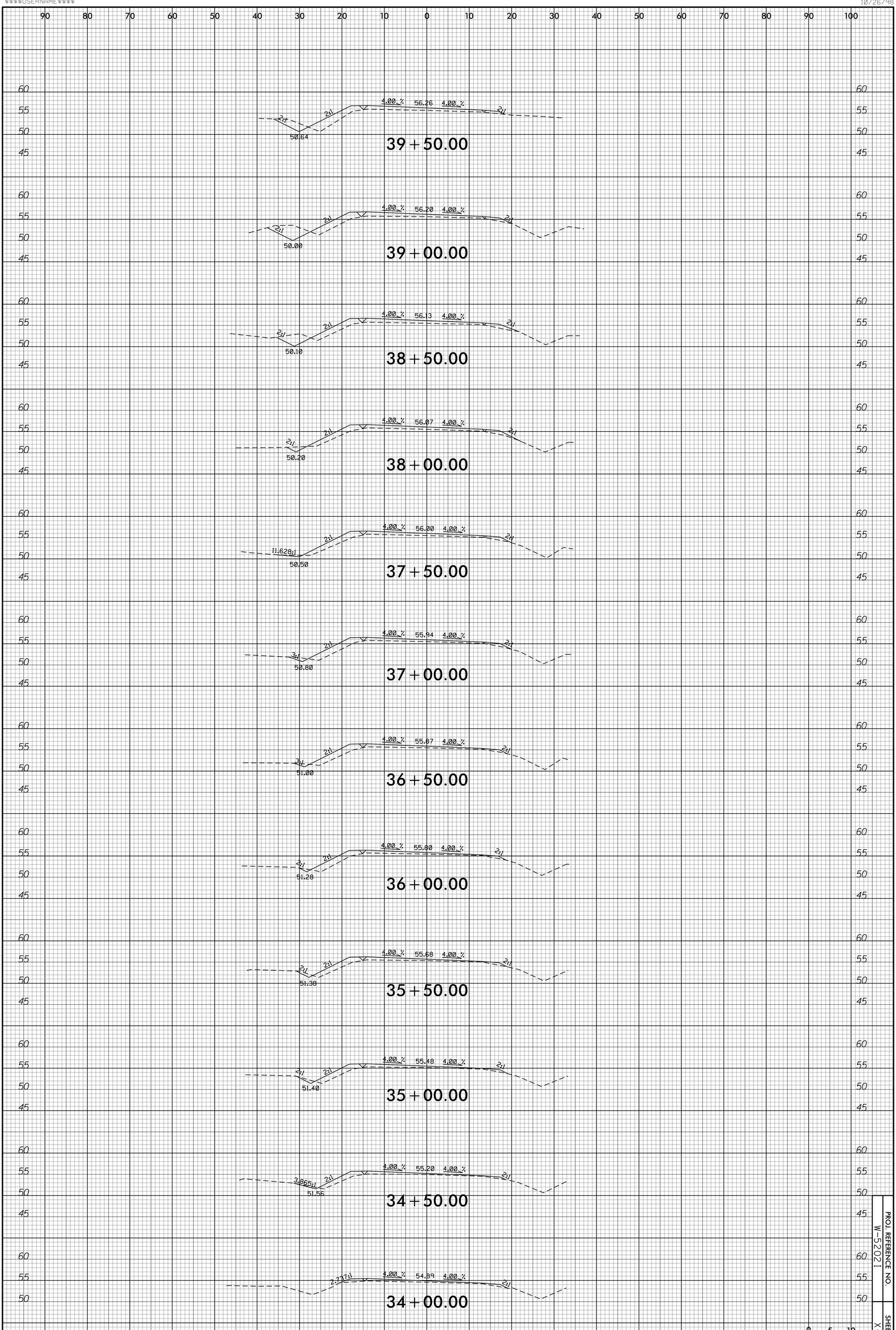
PROJ. REFERENCE NO. W-5202I

SHEET NO. X-1



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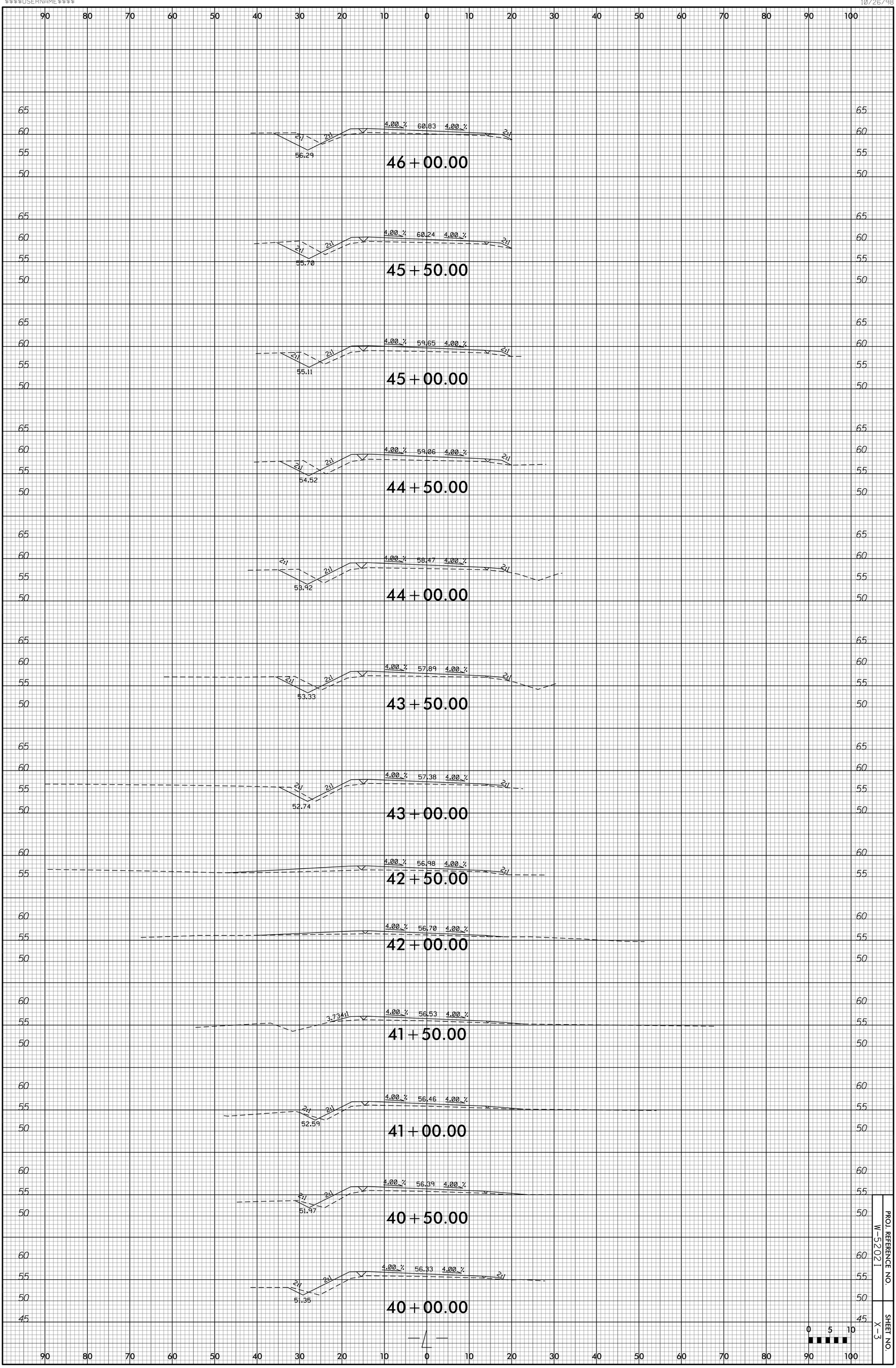

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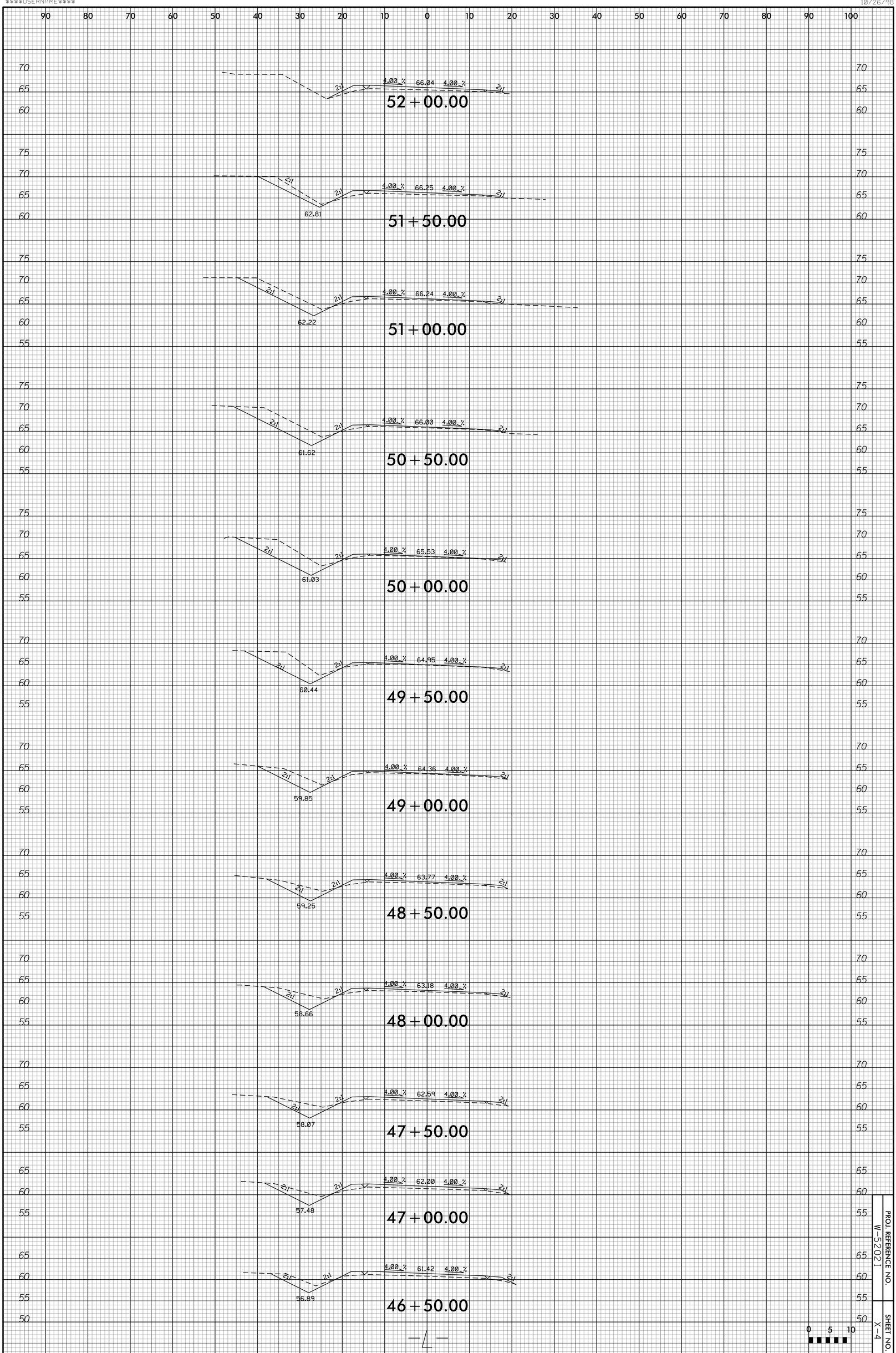

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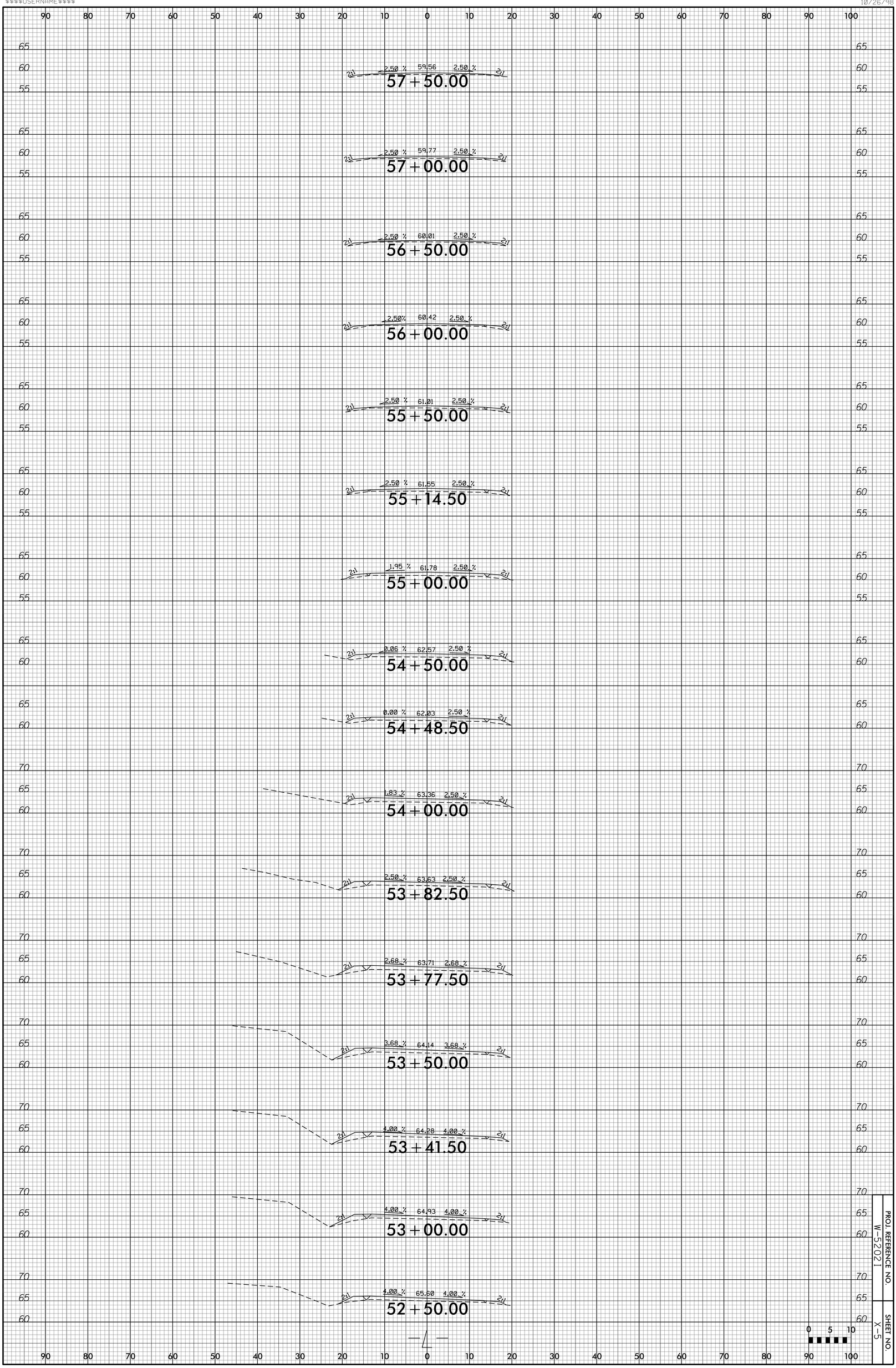
PROJ. REFERENCE NO.
W-5202I

SHEET NO.
X-4



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SHEET NO. X-5

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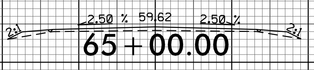

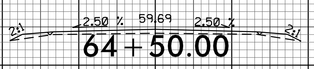

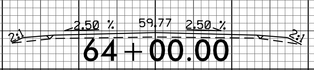

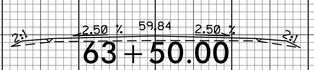

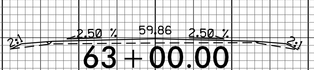

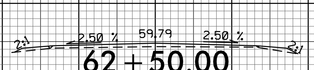

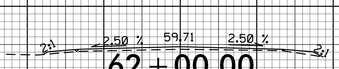

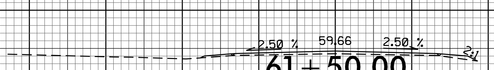

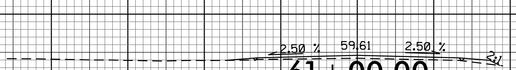

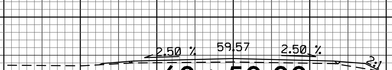

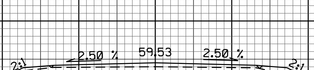

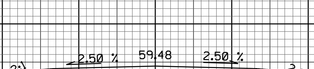

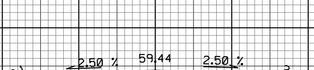

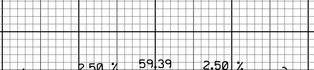

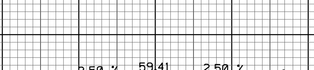

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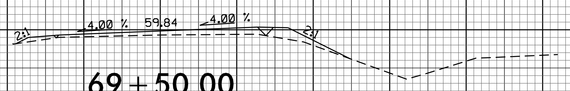
PROJ. REFERENCE NO.
W-5202I

SHEET NO.
X-6



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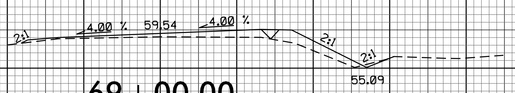

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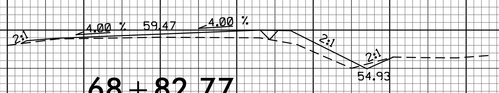

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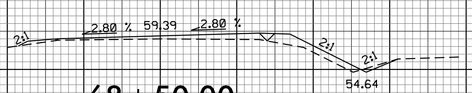

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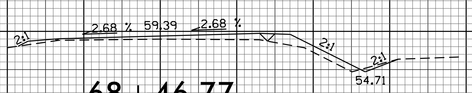

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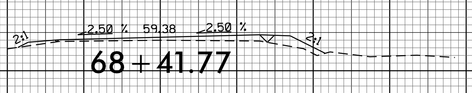

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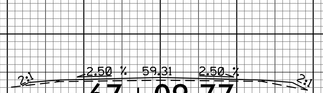

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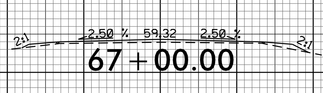

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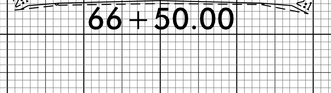

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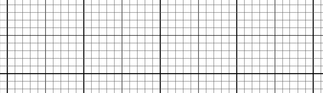

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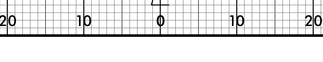

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PROJ. REFERENCE NO. W-5202I

SHEET NO. X-7

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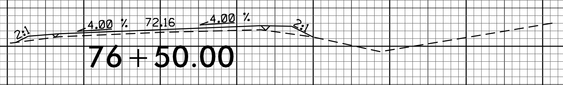

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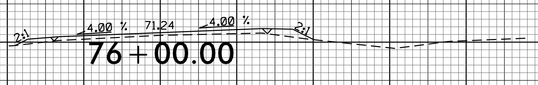

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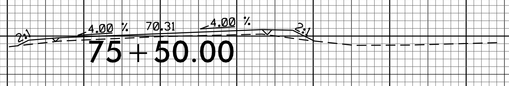

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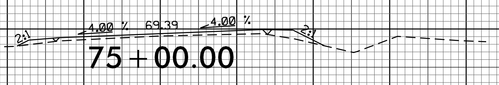

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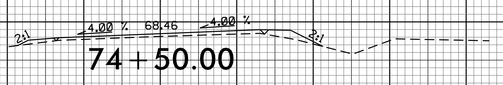

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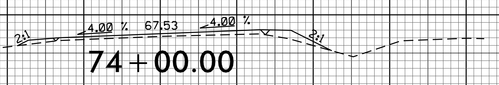

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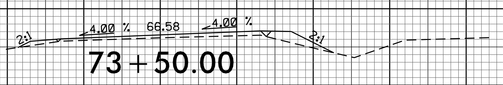

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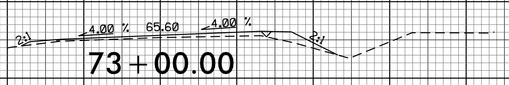

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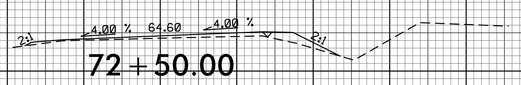

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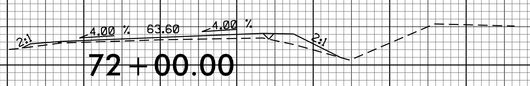

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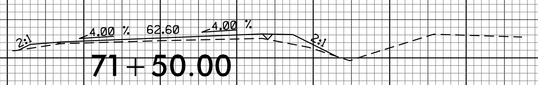

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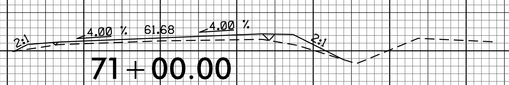

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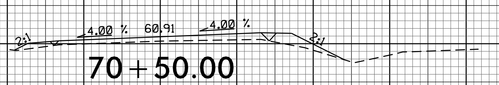

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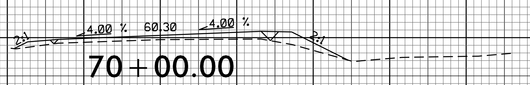

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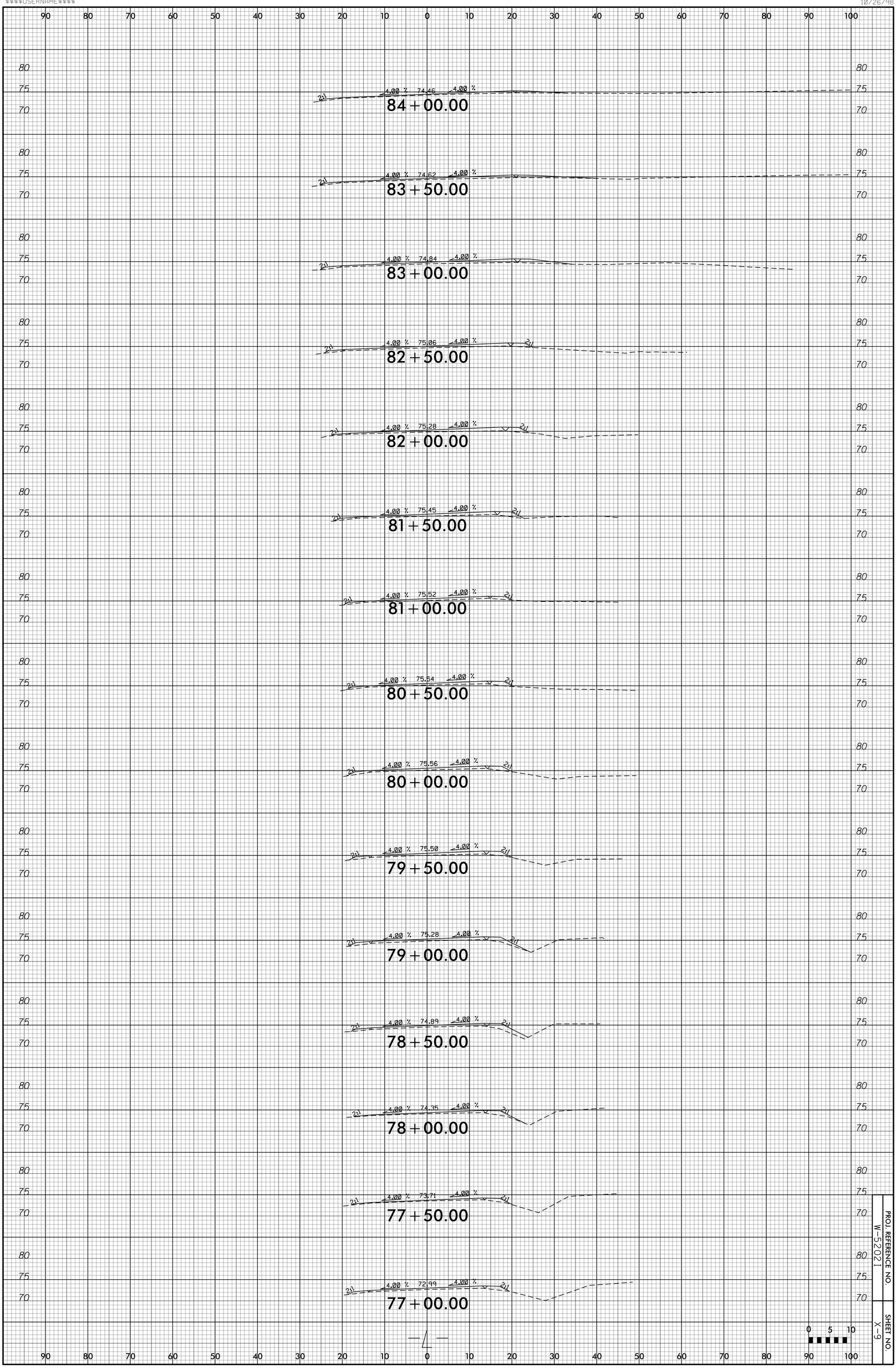
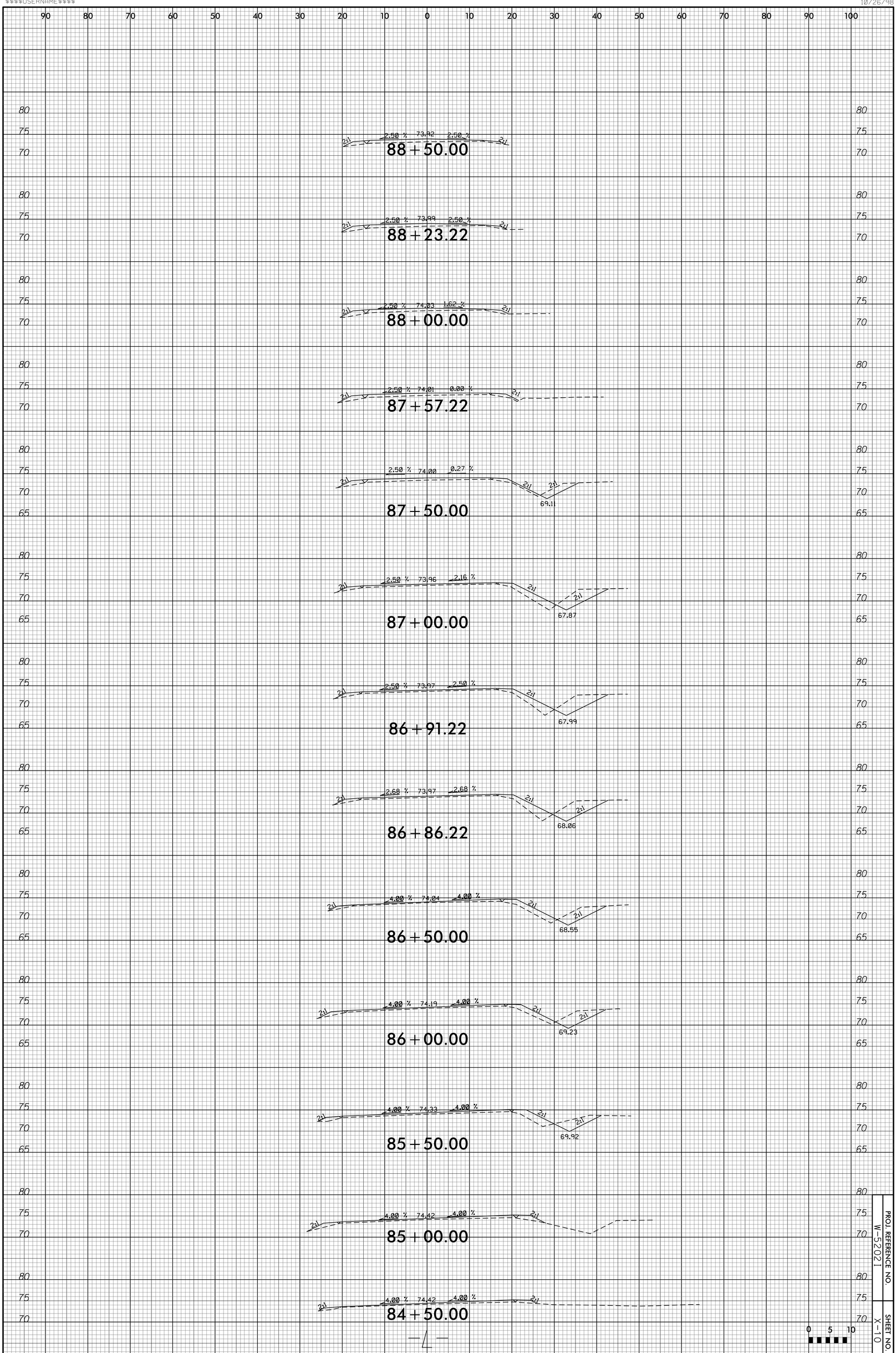
PROJ. REFERENCE NO. W-5202I

SHEET NO. X-8



PROJ. REFERENCE NO. W-5202I

SHEET NO. X-9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88+23.22
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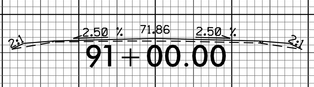

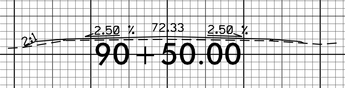

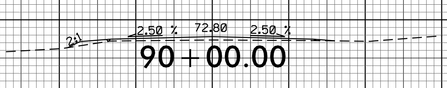

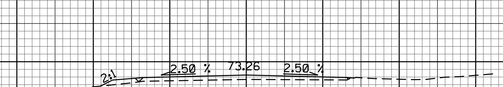

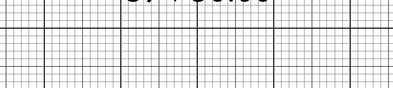

PROJ. REFERENCE NO.
W-5202I

SHEET NO.
X-11