09/08/99

TIP PROJECT: W-5702F

CONTRACT: DB00438

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5702F	1	32

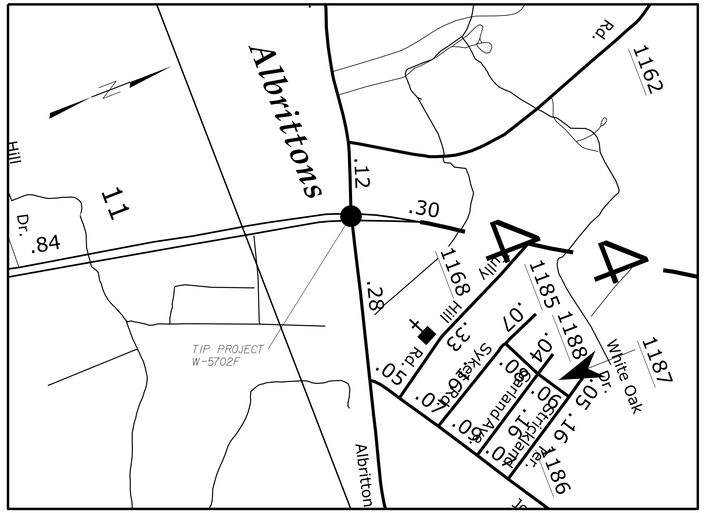
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
44848.1.6	HSIP-0011(037)	PE
44848.2.6	HSIP-0011(037)	R/W
44848.3.6	HSIP-0011(037)	CONST

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

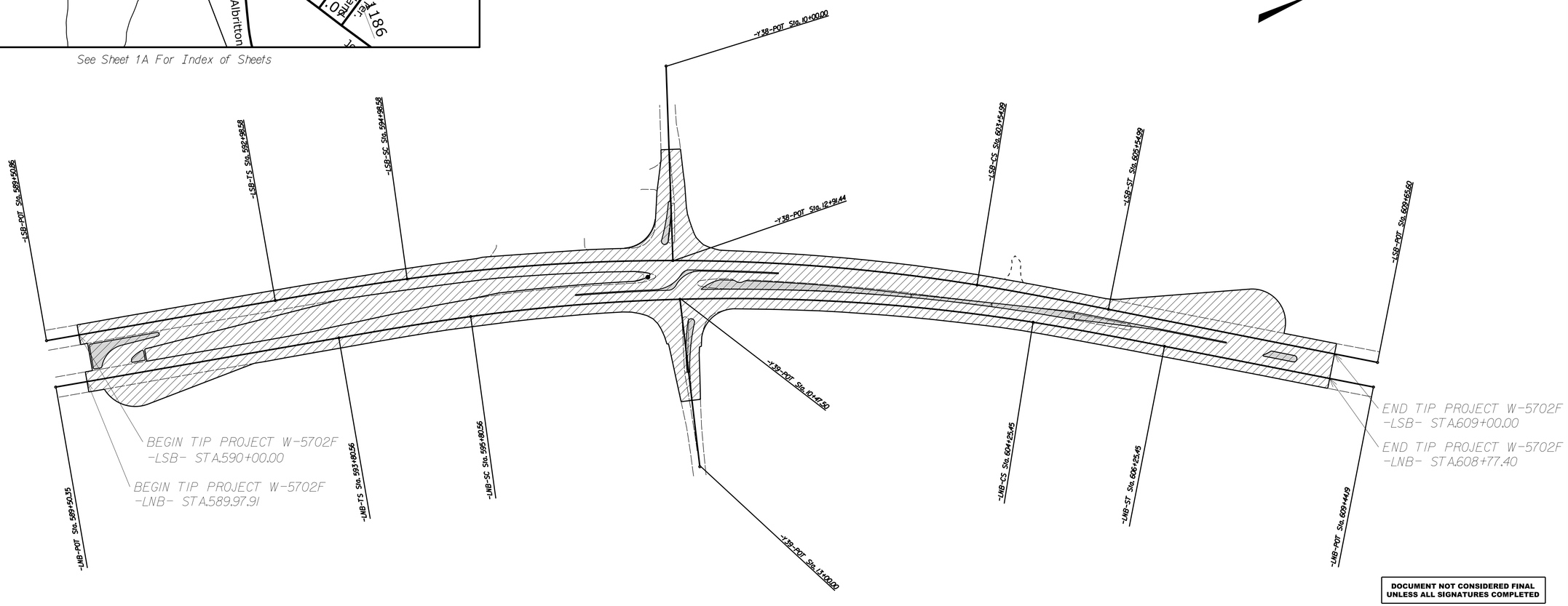
LENOIR COUNTY

LOCATION: NC 11 AT SR 1161 (ALBRITTONS ROAD) / (GREENE HANYES ROAD)

TYPE OF WORK: CHANNELIZATION OF INTERSECTION WITH U-TURN LOCATIONS ON BOTH SIDES OF INTERSECTION



See Sheet 1A For Index of Sheets



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GRAPHIC SCALES

50 25 0 50 100
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

PROJECT LENGTH

PROJECT LENGTH FOR W-5702F= 0.359 MI

Prepared In the Office of:

DIVISION OF HIGHWAYS

1037 WH SMITH BLVD, GREENVILLE,NC 27835

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER 2017

LETTING DATE:
AUGUST 2018

JEFFREY D. CABANISS, PE
PROJECT ENGINEER

RICH GODLEY
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS

DocuSigned by:
Jeffrey D. Cabaniss
P.E. 6/11/2018
SIGNATURE:

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS

DocuSigned by:
Jeffrey D. Cabaniss
P.E. 6/11/2018
SIGNATURE:

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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PROJECT REFERENCE NO.	SHEET NO.
W-5702F	1A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C-1	SURVEY CONTROL SHEET
1C-2	CHAIN DESCRIPTIONS
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF EARTHWORK
4-5	PLANSHEET
6-8	CONCRET ISLAND LAYOUT SHEET
RW1	RIGHT OF WAY SHEET
PMP1- PMP2	PAVEMENT MARKING SHEET
EC1-EC4	EROSION CONTROL SHEETS
X1A	CROSS SECTION SUMMARY
X1-X11	CROSS SECTION SHEET

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

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.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

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.

UTILITIES:

OWNERS:
DEEP RUN WATER CORPORATION; WATER
DUKE ENERGY; POWER
CENTURYLINK; PHONE AND FIBER OPTIC
NCDOT; TRAFFIC AND FIBER OPTICS
SUDDENLINK COMMUNICATIONS; CABLE TV

RIGHT-OF-WAY MARKERS:

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

2018 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 16, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.2	METHOD OF CLEARING - METHOD II
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
DIVISION 3 - PIPE CULVERTS	
300.01	METHOD FOR PIPE INSTALLATION
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	METHOD OF SHOULDER CONSTRUCTION - METHOD I
DIVISION 8 - INCIDENTALS	
840.54	MANHOLE FRAME AND COVER
846.01	CONCRETE CURB
852.01	CONCRETE ISLANDS
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	LINE TYPES OFFSETS
1205.02	DIVIDED AND UNDIVIDED ROADWAYS
1205.05	TURN LANES
1205.08	SYMBOLS
1205.15	SUPERSTREETS
1253.01	SNOWPLOWABLE PAVEMENT MAKERS
DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT	
1605.01	TEMPORARY SILT FENCE
1632.03	ROCK INLET SEDIMENT TRAP, TYPE C

04/06/15

PROJECT REFERENCE NO.	SHEET NO.
W-5702F	1B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale **S.U.E. = Subsurface Utility Engineering*

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
- Existing Historic Property Boundary — HPB
- Known Contamination Area: Soil
- Potential Contamination Area: Soil
- Known Contamination Area: Water
- Potential Contamination Area: Water
- Contaminated Site: Known or Potential

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
- U/G Power Line LOS B (S.U.E.*) — P
- U/G Power Line LOS C (S.U.E.*) — P
- U/G Power Line LOS D (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole
- U/G Telephone Cable LOS B (S.U.E.*) — T
- U/G Telephone Cable LOS C (S.U.E.*) — T
- U/G Telephone Cable LOS D (S.U.E.*) — T
- U/G Telephone Conduit LOS B (S.U.E.*) — TC
- U/G Telephone Conduit LOS C (S.U.E.*) — TC
- U/G Telephone Conduit LOS D (S.U.E.*) — TC
- U/G Fiber Optics Cable LOS B (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS C (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS D (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- U/G Water Line LOS B (S.U.E*)
- U/G Water Line LOS C (S.U.E*)
- U/G Water Line LOS D (S.U.E*)
- Above Ground Water Line — A/G Water

TV:

- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- U/G TV Cable LOS B (S.U.E.*) — TV
- U/G TV Cable LOS C (S.U.E.*) — TV
- U/G TV Cable LOS D (S.U.E.*) — TV
- U/G Fiber Optic Cable LOS B (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS C (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS D (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- U/G Gas Line LOS B (S.U.E.*) — G
- U/G Gas Line LOS C (S.U.E.*) — G
- U/G Gas Line LOS D (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
- SS Forced Main Line LOS B (S.U.E.*) — FSS
- SS Forced Main Line LOS C (S.U.E.*) — FSS
- SS Forced Main Line LOS D (S.U.E.*) — FSS

MISCELLANEOUS:

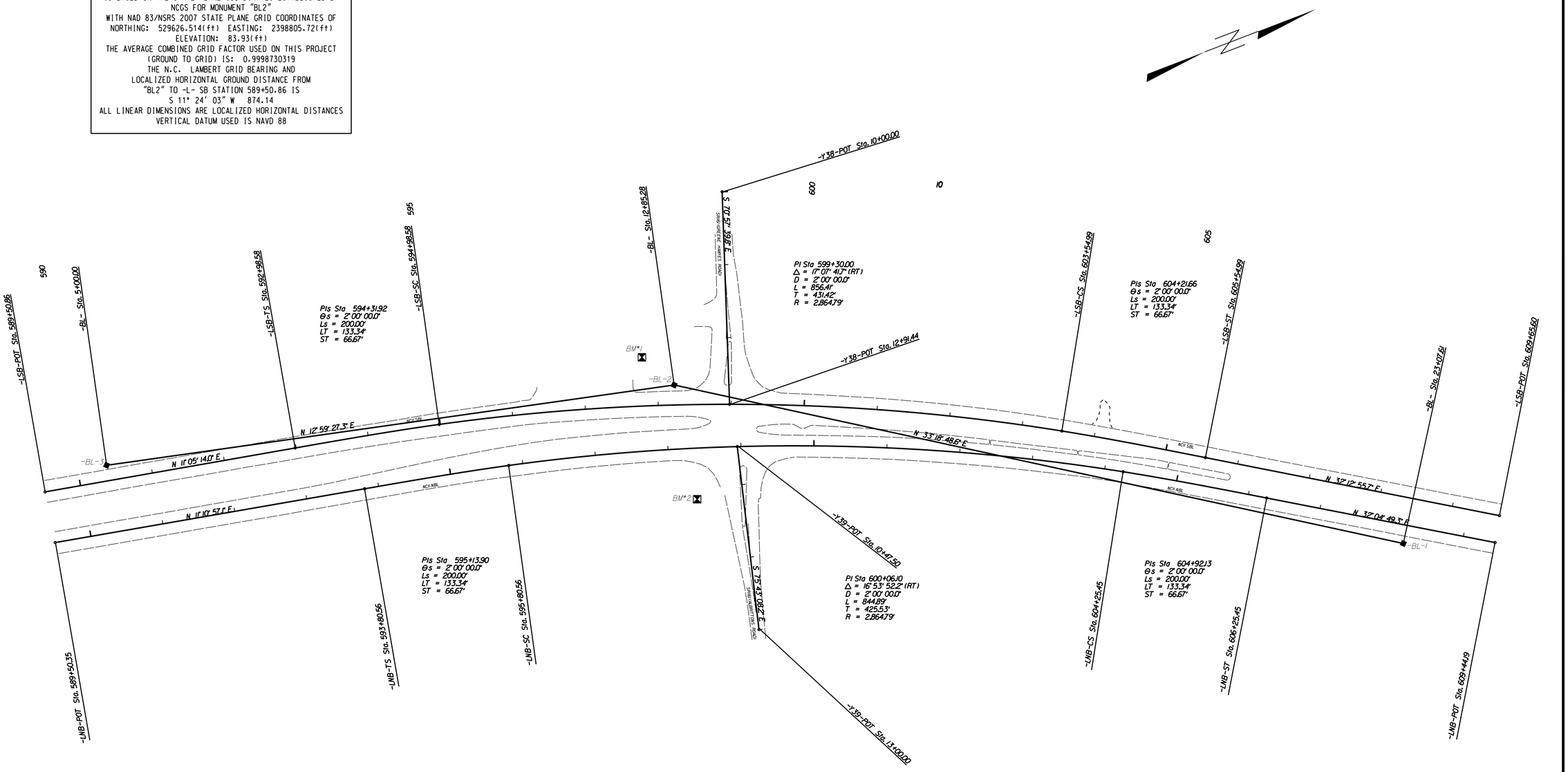
- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box — S
- Utility Unknown U/G Line LOS B (S.U.E.*) — ?UTL
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. — UST
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole LOS A (S.U.E.*)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

SURVEY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
W-5702F	IC-1

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCGS FOR MONUMENT "BL2"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 529626.514(ft) EASTING: 2398805.72(ft)
ELEVATION: 83.93(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.9998730319
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"BL2" TO -L- SB STATION 589+50.86 IS
S 11° 24' 03" W 874.14
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88



BM1 ELEVATION = 82.53'
N 529599.0870 E 2398754.4880
-LSB-STA. 597+80.30 ; 66.78' LT
RR SPIKE IN PP

BM2 ELEVATION = 82.145'
N 529599.6910 E 2398963.1120
-LNB-STA. 598+36.58 ; 69.99' RT
BONNET BOLT OVER WATER MAIN

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
W-5702F	1C-2

SURVEY CONTROL SHEET

CHAIN DESCRIPTIONS

-Y38- DESCRIPTION
Point 1506 N 529,782.9561 E 2,398,582.1639 Sta 10+00.00
Course from 1506 to 1507 S 70° 57' 39.79" E Dist 291.4400'
Point 1507 N 529,687.8853 E 2,398,857.6613 Sta 12+91.44

-Y39- DESCRIPTION
Point 1508 N 529,676.9305 E 2,398,915.5729 Sta 10+47.50
Course from 1508 to 1509 S 75° 43' 08.16" E Dist 252.5000'
Point 1509 N 529,614.6441 E 2,399,160.2700 Sta 13+00.00

-BL- DESCRIPTION
-BL-3 N 528,861.3330 E 2,398,629.1920 Sta 5+00.00 ELEV=82.40'
Course from 3 to 2 N 12° 59' 27.25" E Dist 785.2796'
-BL-2 N 529,626.5140 E 2,398,805.7200 Sta 12+85.28 ELEV=83.93'
Course from 2 to 1 N 33° 18' 48.60" E Dist 1,022.3340'
-BL-1 N 530,480.8560 E 2,399,367.2060 Sta 23+07.61 ELEV=81.20'

-LSB- DESCRIPTION
Point 1503 N 528,769.6273 E 2,398,632.9269 Sta 589+50.86
Course from 1503 to TS SBSIB N 11° 05' 14.01" E Dist 347.7172'
Spiral SBSIB Type 1 Spiral Element

Angle	2° 00' 00.00" (RT) P	0.5818	BK N	11° 05' 14.01" E	
LS	200.0000	K	99.9959	AH N	13° 05' 14.01" E
R	2,864.7890	LT	133.3418	CB N	11° 45' 13.99" E
YS	2.3269	ST	66.6744	Defl	0° 39' 59.98"
XS	199.9756	LC	199.9892	Deg	2° 00' 00.00"

Spiral Coordinates

Point	North	East	Station
TS	529,110.8546	2,398,699.7940	592+98.58
PI	529,241.7077	2,398,725.4361	594+31.92
SC	529,306.6503	2,398,740.5334	594+98.58
CC	528,657.9643	2,401,530.9138	

Curve Data

Curve SBSI
P.I. Station 599+30.00 N 529,726.8688 E 2,398,838.2226
Delta = 17° 07' 41.72" (RT)
Degree = 2° 00' 00.00"
Tangent = 431.4241
Length = 856.4128
Radius = 2,864.7890
External = 32.3031
Long Chord = 853.2274
Mid.Ord. = 31.9429
P.C. Station 594+98.58 N 529,306.6503 E 2,398,740.5334
P.T. Station 603+54.99 N 530,099.6792 E 2,399,055.3383
C.C. N 528,657.9643 E 2,401,530.9138
Back = N 13° 05' 14.01" E
Ahead = N 30° 12' 55.73" E
Chord Bear = N 21° 39' 04.87" E
Spiral SBSIA Type 2 Spiral Element

Angle	2° 00' 00.00" (RT) P	0.5818	BK N	30° 12' 55.73" E	
LS	200.0000	K	99.9959	AH N	32° 12' 55.73" E
R	2,864.7890	LT	133.3418	CB N	31° 32' 55.76" E
YS	2.3269	ST	66.6744	Defl	0° 39' 59.98"
XS	199.9756	LC	199.9892	Deg	2° 00' 00.00"

Spiral Coordinates

Point	North	East	Station
CS	530,099.6792	2,399,055.3383	603+54.99
PI	530,157.2952	2,399,088.8924	604+21.66
ST	530,270.1089	2,399,159.9776	605+54.99
CC	528,657.9643	2,401,530.9138	

Course from ST SBSIA to 1505 N 32° 12' 55.73" E Dist 410.6080'
Point 1505 N 530,617.5035 E 2,399,378.8748 Sta 609+65.60

-LNB- DESCRIPTION
Point 1500 N 528,757.5613 E 2,398,702.7282 Sta 589+50.35
Course from 1500 to TS NBSIB N 11° 10' 57.12" E Dist 430.2128'
Spiral NBSIB Type 1 Spiral Element

Angle	2° 00' 00.00" (RT) P	0.5818	BK N	11° 10' 57.12" E	
LS	200.0000	K	99.9959	AH N	13° 10' 57.12" E
R	2,864.7890	LT	133.3418	CB N	11° 50' 57.10" E
YS	2.3269	ST	66.6744	Defl	0° 39' 59.98"
XS	199.9756	LC	199.9892	Deg	2° 00' 00.00"

Spiral Coordinates

Point	North	East	Station
TS	529,179.6062	2,398,786.1616	593+80.56
PI	529,310.4165	2,398,812.0213	595+13.90
SC	529,375.3339	2,398,827.2267	595+80.56
CC	528,722.0071	2,401,616.5241	

Curve Data

Curve NBSI
P.I. Station 600+06.10 N 529,789.6552 E 2,398,924.2716
Delta = 16° 53' 52.21" (RT)
Degree = 2° 00' 00.00"
Tangent = 425.5348
Length = 844.8917
Radius = 2,864.7890
External = 31.4320
Long Chord = 841.8331
Mid.Ord. = 31.0908
P.C. Station 595+80.56 N 529,375.3339 E 2,398,827.2267
P.T. Station 604+25.45 N 530,157.8803 E 2,399,137.5557
C.C. N 528,722.0071 E 2,401,616.5241
Back = N 13° 10' 57.12" E
Ahead = N 30° 04' 49.33" E
Chord Bear = N 21° 37' 53.22" E
Spiral NBSIA Type 2 Spiral Element

Angle	2° 00' 00.00" (RT) P	0.5818	BK N	30° 04' 49.33" E	
LS	200.0000	K	99.9959	AH N	32° 04' 49.33" E
R	2,864.7890	LT	133.3418	CB N	31° 24' 49.35" E
YS	2.3269	ST	66.6744	Defl	0° 39' 59.98"
XS	199.9756	LC	199.9892	Deg	2° 00' 00.00"

Spiral Coordinates

Point	North	East	Station
CS	530,157.8803	2,399,137.5557	604+25.45
PI	530,215.5752	2,399,170.9739	604+92.13
ST	530,328.5563	2,399,241.7928	606+25.45
CC	528,722.0071	2,401,616.5241	

Course from ST NBSIA to 1502 N 32° 04' 49.33" E Dist 318.7304'
Point 1502 N 530,598.6178 E 2,399,411.0732 Sta 609+44.19

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
W-5702F	2

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL ENGINEER JEFFREY D. CABANISS 034398

6/15/2018

PAVEMENT DESIGN ENGINEER

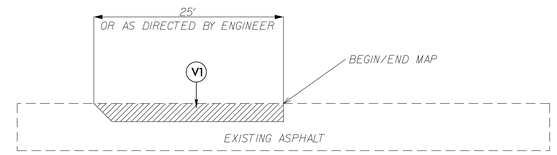
NORTH CAROLINA PROFESSIONAL SEAL ENGINEER JEFFREY D. CABANISS 034398

6/15/2018

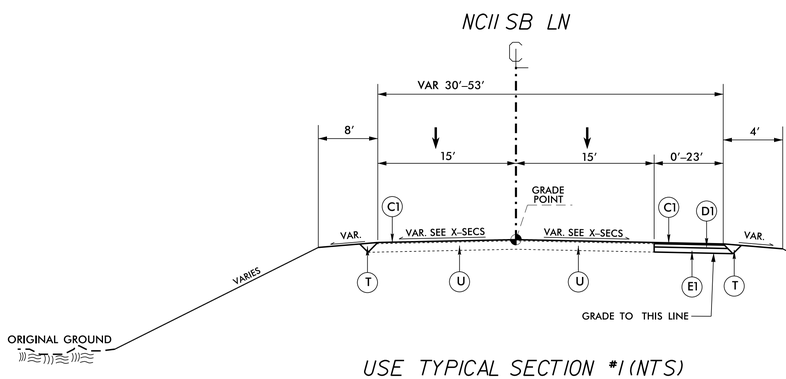
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

C1	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
D1	PROP. APPROX. 2.5″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	INCIDENTAL MILLING.

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

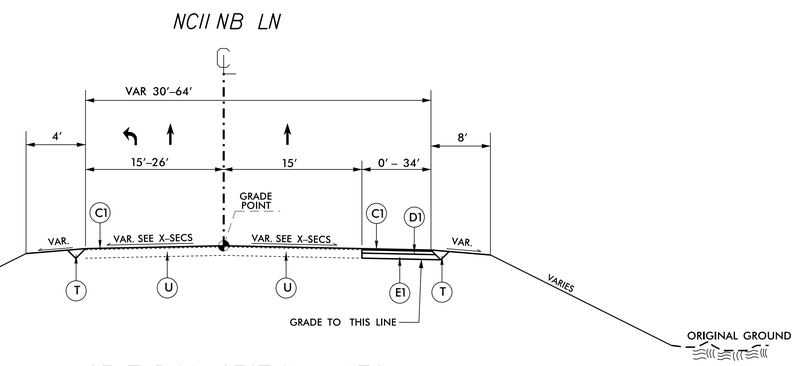


INCIDENTAL MILLING DETAIL



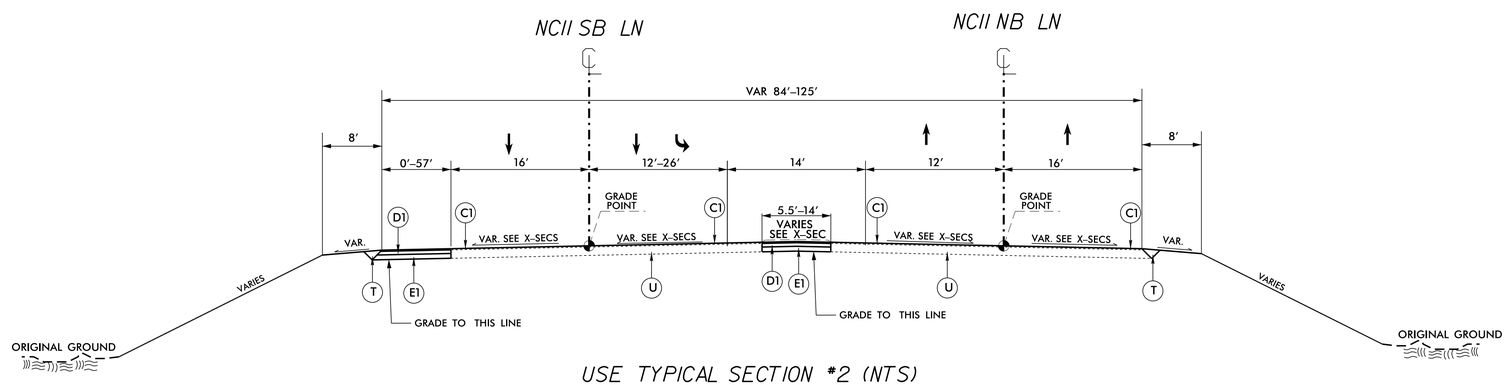
USE TYPICAL SECTION #1 (NTS)

-LSB- STA.590+00.00 - 598+53.70



USE TYPICAL SECTION #1 (NTS)

-LNB- STA.589+97.91 - 598+42.39



USE TYPICAL SECTION #2 (NTS)

-LSB- STA.598+53.70 - 609+00.00

-LNB- STA.598+42.39 - 608+77.40

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
W-5702E__	3__

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

SECT	QUANTITY	UNIT	ITEM DESCRIPTION
800	1	LS	MOBILIZATION
801	1	LS	CONSTRUCTION SURVEYING
226	1	LS	GRADING
300	50	TON	FOUNDATION CONDITIONING MATERIAL,MINOR STRUCTURES
300	150	SY	FOUNDATION CONDITIONING GEOTEXTILE
310	430	LF	18" DRAINAGE PIPE
545	20	TON	INCIDENTAL STONE BASE
607	550	SY	INCIDENTAL MILLING
610	570	TON	ASPHALT CONCRETE BASE COURSE,TYPE B25.0C
610	360	TON	ASPHALT CONCRETE INTERMEDIATE COURSE,TYPE I19.0C
610	1,610	TON	ASPHALT CONCRETE SURFACE COURSE,TYPE S9.5B
620	140	TON	ASPHALT BINDER FOR PLANT MIX
840	1	EA	FRAME WITH COVER,STD 840.54
840	1	EA	MASONARY DRAINAGE STRUCTURE (TBJB)
846	70	LF	8"X12" CONCRETE CURB
852	1,040	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
SP	96	SF	WORK ZONE ADVANCE/GENERAL WARNING SIGNING
SP	1	LS	TEMPORARY TRAFFIC CONTROL
1205	8,302	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4",90MILS)
1205	5,622	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4",120MILS)
1205	1,035	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8",90MILS)
1205	72	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12",90MILS)
1205	32	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24",120MILS)
1205	10	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90MILS)
1253	150	EA	SNOWPLOWABLE PAVEMENT MARKERS
1605	150	LF	TEMPORARY SILT FENCE
1610	5	TON	SEDIMENT CONTROL STONE
1615	1.75	ACRE	TEMPORARY MULCHING
1620	90	LB	SEED FOR TEMPORARY SEEDING
1620	.50	TON	FERTILIZER FOR TEMPORARY SEEDING
1632	50	LF	1/4" HARDWARE CLOTH
1660	1.75	ACRE	SEEDING AND MULCHING
1661	90	LB	SEED FOR REPAIR SEEDING
1661	.50	TON	FERTILIZER FOR REPAIR SEEDING
SP	2	EA	RESPONSE FOR EROSION CONTROL
SP	140	LF	COIR FIBER WATTLE
SP	2	LB	POLYACRYLAMIDE
SP	1	EA	CONCRETE WASHOUT STRUCTURE

$$$$$$$$SYSTIME$$$$
$$$$$$$$TIME$$$$
$$$$$$$$DN$$$$$$$$$$$$$$$$
$$$$$$$$USERNAME$$$$

COMPUTED BY: RG DATE:
CHECKED BY: LJ DATE:

PROJECT REFERENCE NO.	SHEET NO.
W-5702F	3A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

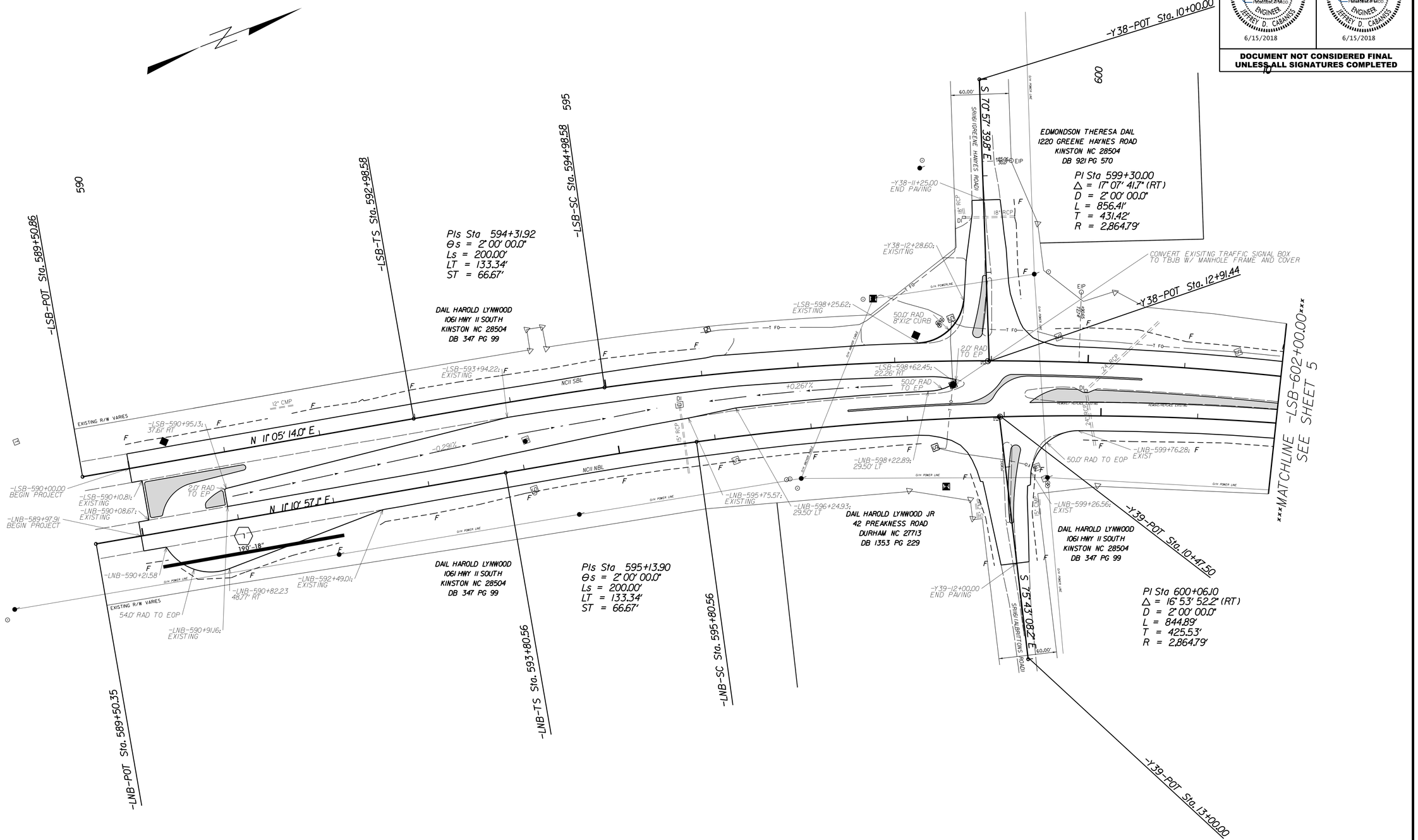
NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300–5".

SUB–REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC.

| STATION / SIZE / THICKNESS OR GAUGE | LOCATION (LT,RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE 12" | 15" | 18" | 24" | 36" | 42" | 48" | R.C. PIPE (CLASS III) 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE (CLASS IV) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | DOT SUPPLIED 95" X 67" CAAP WHEADWALLS | *** R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE | *** R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) R.C.P. | CU. YDS. C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") PER EACH (0' THRU 5.0') | LIN. *FT. A 5.0' THRU 10.0' | LIN. *FT. B 10.0' AND ABOVE | T.B.J.B. STD. 840.34 | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | CONCRETE TRANSITIONAL SECTION CATCH BASIN | DROP INLET (840.15) | DROP INLET FRAME AND GRATES (840.16) | G.D.I. FRAME WITH GRATE STD. 840.22 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | M.H FRAME & COVER STD. 840.54 | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
|---|---|---

PROJECT REFERENCE NO.	SHEET NO.
W-5702F	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS — 6/15/2018	NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS — 6/15/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



REVISIONS

8/17/99

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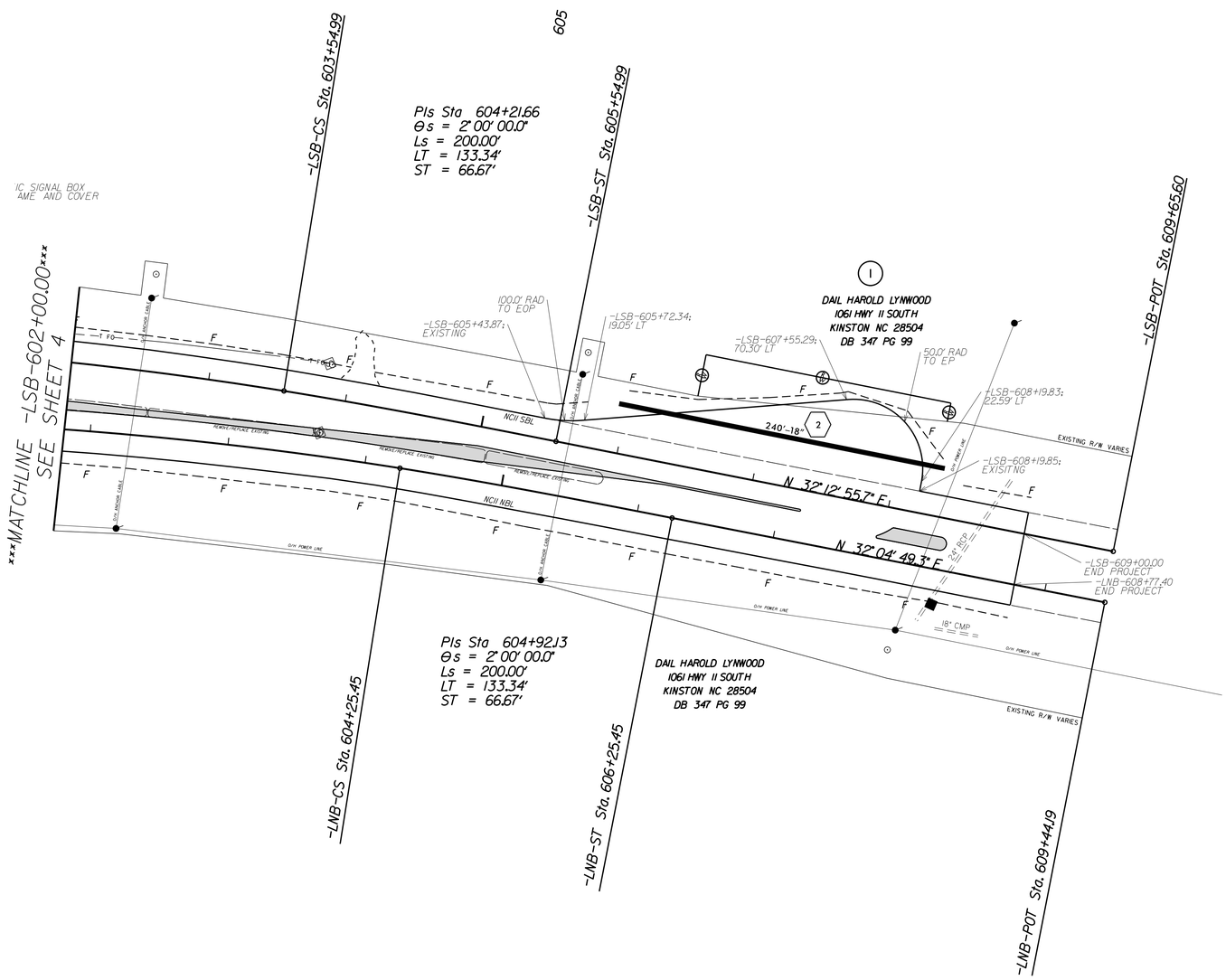
PROJECT REFERENCE NO.	SHEET NO.
W-5702F	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS	NORTH CAROLINA PROFESSIONAL SEAL 034398 ENGINEER JEFFREY D. CABANISS
6/15/2018	6/15/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

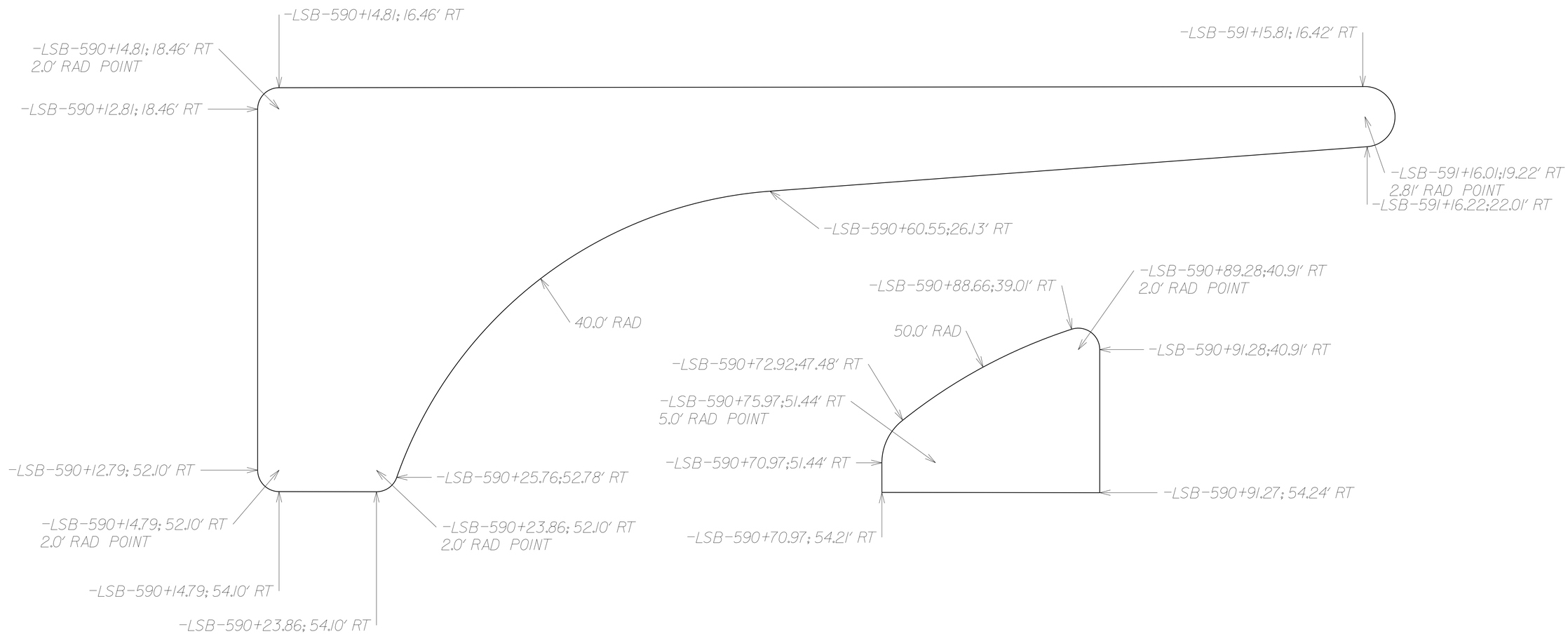
8/17/99



SEE SHEET 6-8
FOR CONC.ISLAND LAYOUT

PROJECT REFERENCE NO.	SHEET NO.
W-5702F	6

CONCRETE ISLAND LAYOUT



NOTE:
CONSTRUCT 24" OPENING THROUGH ISLANDS
TO ALLOW FOR SURFACE WATER TO DRAIN

DRAWING NOT TO SCALE

REVISIONS

8/17/99

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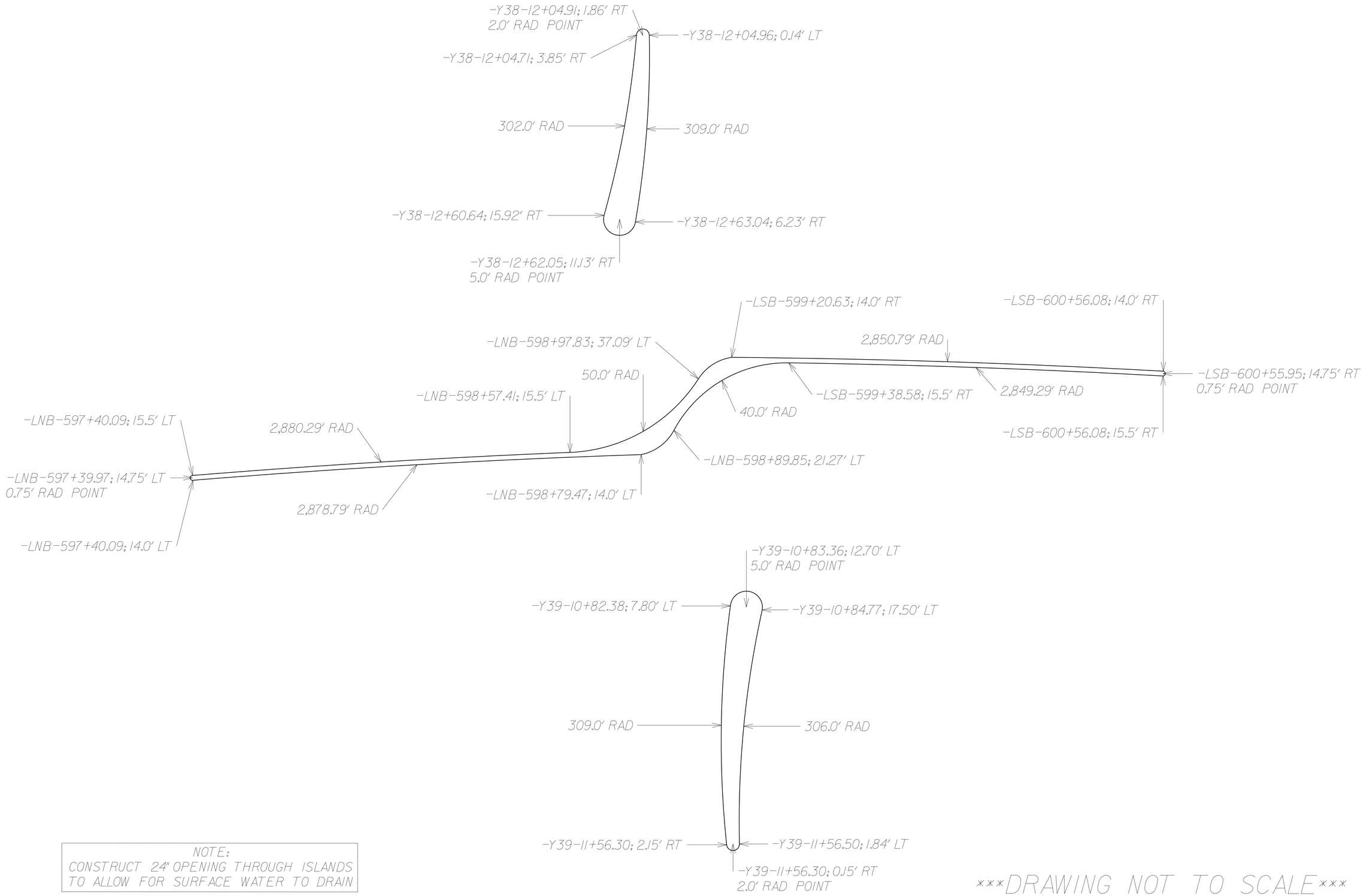
PROJECT REFERENCE NO.	SHEET NO.
W-5702F	7

CONCRETE ISLAND LAYOUT



NOTE:
CONSTRUCT 24" OPENING THROUGH ISLANDS TO ALLOW FOR SURFACE WATER TO DRAIN

DRAWING NOT TO SCALE

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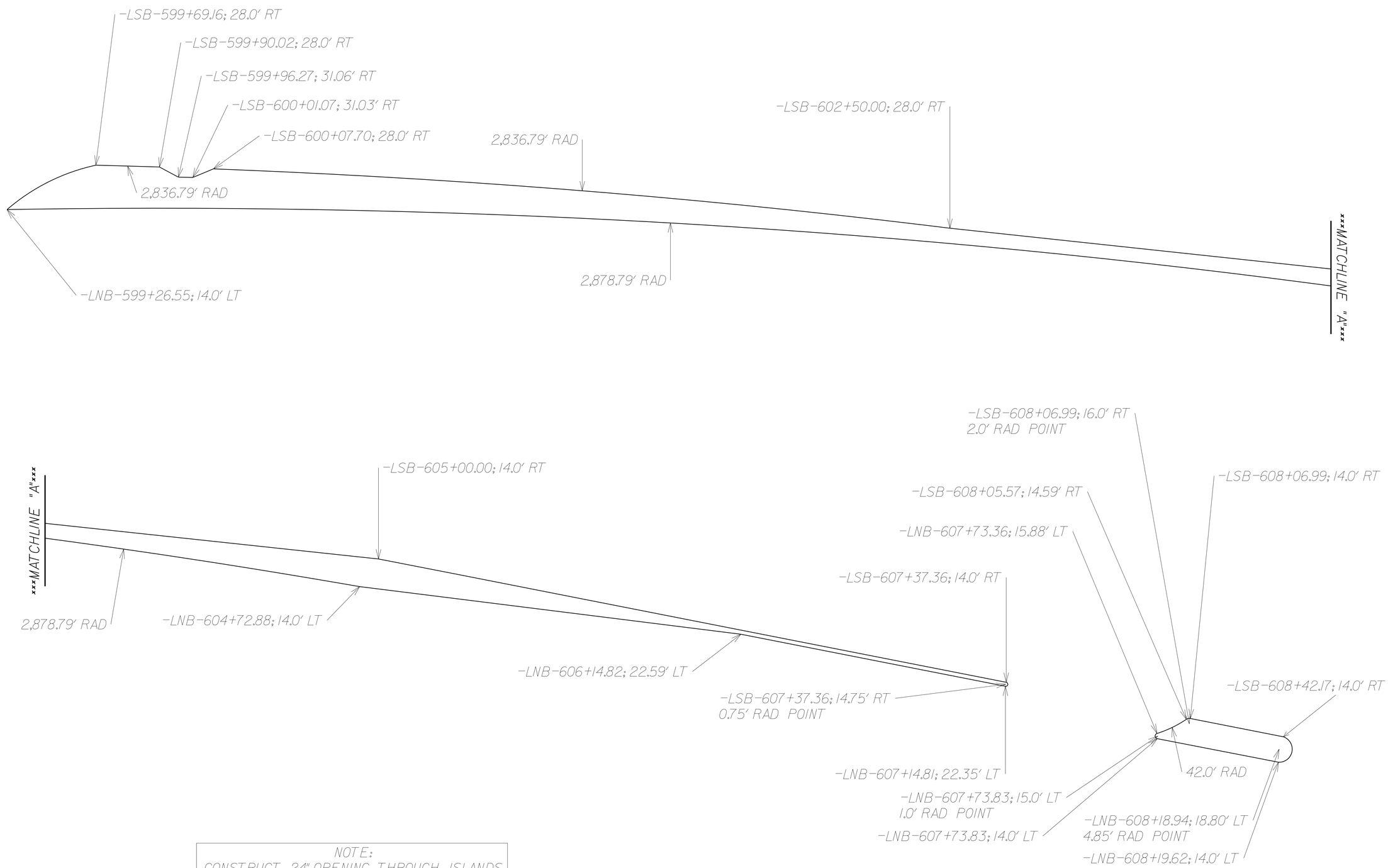
PROJECT REFERENCE NO.	SHEET NO.
W-5702F	8

CONCRETE ISLAND LAYOUT



NOTE:
CONSTRUCT 24" OPENING THROUGH ISLANDS
TO ALLOW FOR SURFACE WATER TO DRAIN

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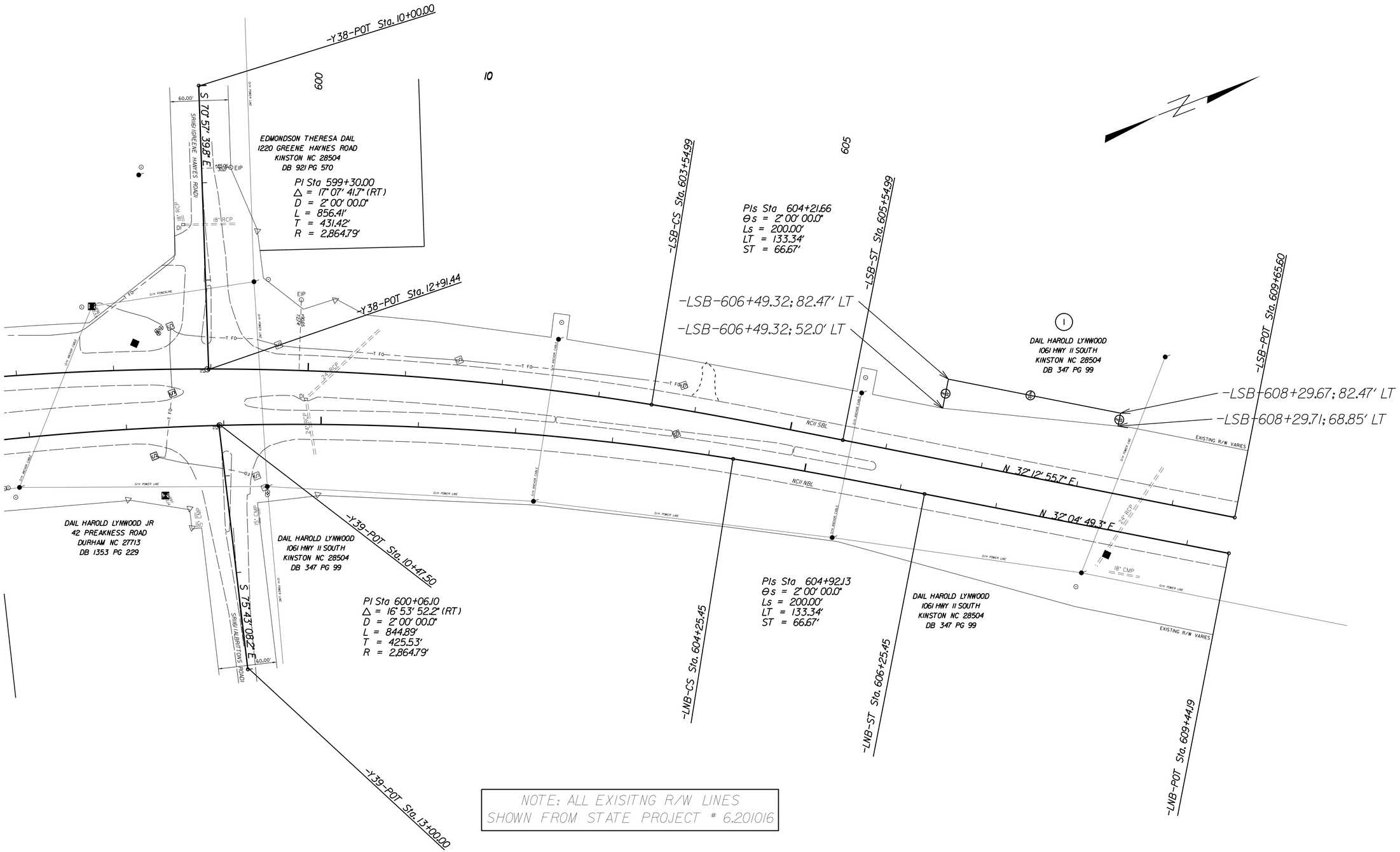
PROJECT REFERENCE NO.	SHEET NO.
W-5702F	RW1

PROPOSED RIGHT OF WAY AREA SUMMARY

PARCEL NO.	PROPERTY OWNER NAME	LOCATION	TOTAL PARCEL AREA [ACRES]	AREA TO BE (ROW) [ACRES]	PARCEL AREA REMAINING [ACRES]
1	DAIL HAROLD LINWOOD	LT -LSB-	164.76	0.09	164.67

STATION/OFFSET	LOCATION	NORTH	EAST	DESCRIPTION
-LSB-606+49.32; 52.0' LT	LT	N 530377.6382	E 2399166.2708	TIE POINT
-LSB-606+49.32; 82.47' LT	LT	N 530393.8790	E 2399140.4963	CORNER
-LSB-608+29.67; 82.47' LT	LT	N 530546.4673	E 2399236.6438	CORNER
-LSB-608+29.71; 68.85' LT	LT	N 530539.2407	E 2399248.1800	TIE POINT



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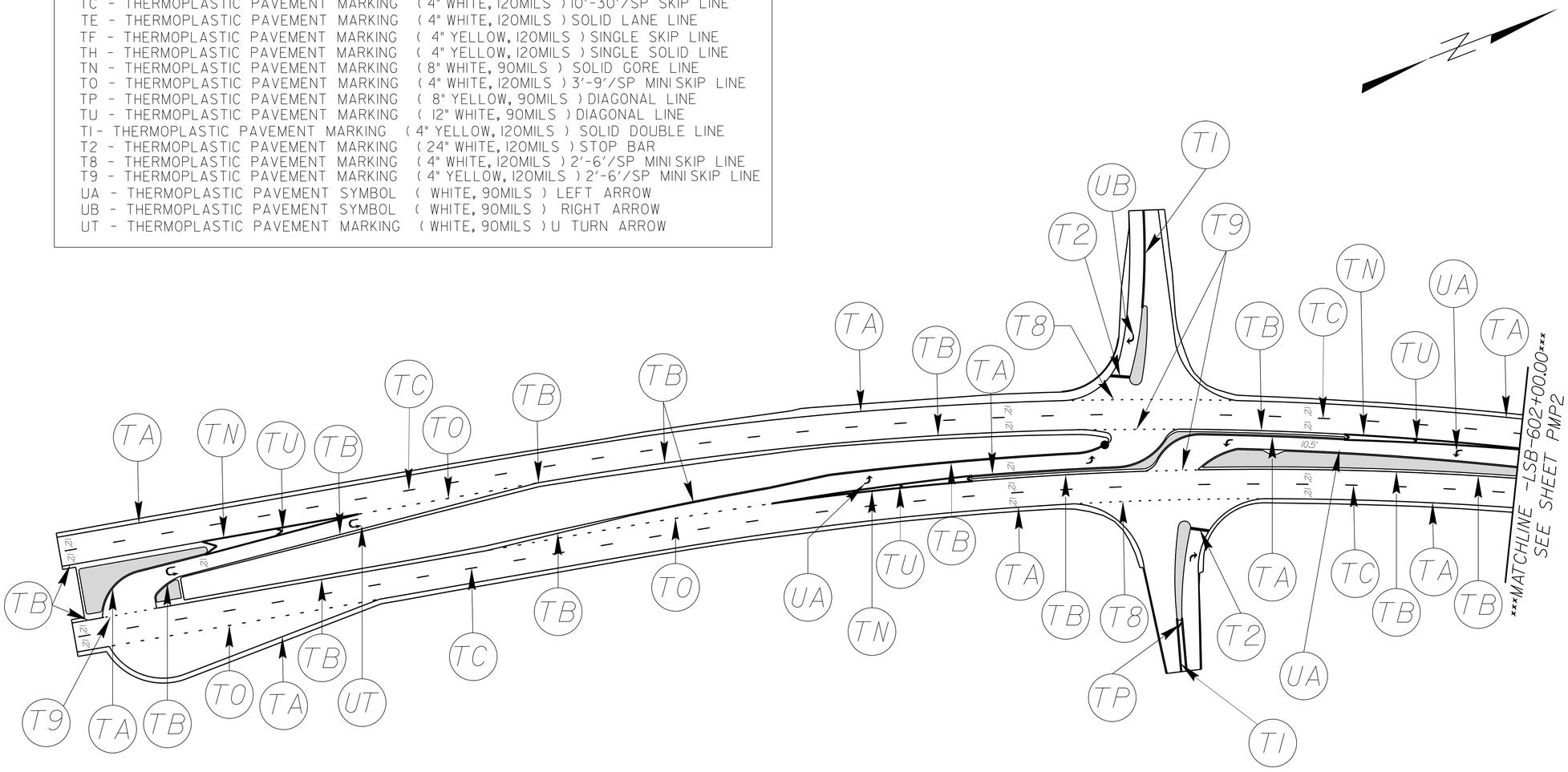
PROJECT REFERENCE NO.	SHEET NO.
W-5702F	PMP1

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES AND SYMBOLS

TA - THERMOPLASTIC PAVEMENT MARKING (4" WHITE, 90MILS) SOLID EDGE LINE
TB - THERMOPLASTIC PAVEMENT MARKING (4" YELLOW, 90MILS) SOLID EDGE LINE
TC - THERMOPLASTIC PAVEMENT MARKING (4" WHITE, 120MILS) 10'-30'/SP SKIP LINE
TE - THERMOPLASTIC PAVEMENT MARKING (4" WHITE, 120MILS) SOLID LANE LINE
TF - THERMOPLASTIC PAVEMENT MARKING (4" YELLOW, 120MILS) SINGLE SKIP LINE
TH - THERMOPLASTIC PAVEMENT MARKING (4" YELLOW, 120MILS) SINGLE SOLID LINE
TN - THERMOPLASTIC PAVEMENT MARKING (8" WHITE, 90MILS) SOLID GORE LINE
TO - THERMOPLASTIC PAVEMENT MARKING (4" WHITE, 120MILS) 3'-9'/SP MINI SKIP LINE
TP - THERMOPLASTIC PAVEMENT MARKING (8" YELLOW, 90MILS) DIAGONAL LINE
TU - THERMOPLASTIC PAVEMENT MARKING (12" WHITE, 90MILS) DIAGONAL LINE
TI - THERMOPLASTIC PAVEMENT MARKING (4" YELLOW, 120MILS) SOLID DOUBLE LINE
T2 - THERMOPLASTIC PAVEMENT MARKING (24" WHITE, 120MILS) STOP BAR
T8 - THERMOPLASTIC PAVEMENT MARKING (4" WHITE, 120MILS) 2'-6'/SP MINI SKIP LINE
T9 - THERMOPLASTIC PAVEMENT MARKING (4" YELLOW, 120MILS) 2'-6'/SP MINI SKIP LINE
UA - THERMOPLASTIC PAVEMENT SYMBOL (WHITE, 90MILS) LEFT ARROW
UB - THERMOPLASTIC PAVEMENT SYMBOL (WHITE, 90MILS) RIGHT ARROW
UT - THERMOPLASTIC PAVEMENT MARKING (WHITE, 90MILS) U TURN ARROW



NOTE

THERMOPLASTIC MARKINGS AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, NCDOT ROADWAY STANDARD DRAWINGS, AND THE CURRENT EDITON OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). QUANTITIES FOR THESE ITEMS HAVE BEEN ACCOUNTED FOR IN THE CONTRACT BID FORM.

FINAL SIGNAGE WILL BE PREFORMED BY NCDOT TRAFFIC SERVICES
FINAL ADJUSTMENT OF EXISITNG TRAFFIC BOXES WILL BE PREFORMED BY NCDOT TRAFFIC SERVICES

REVISIONS

8/17/99

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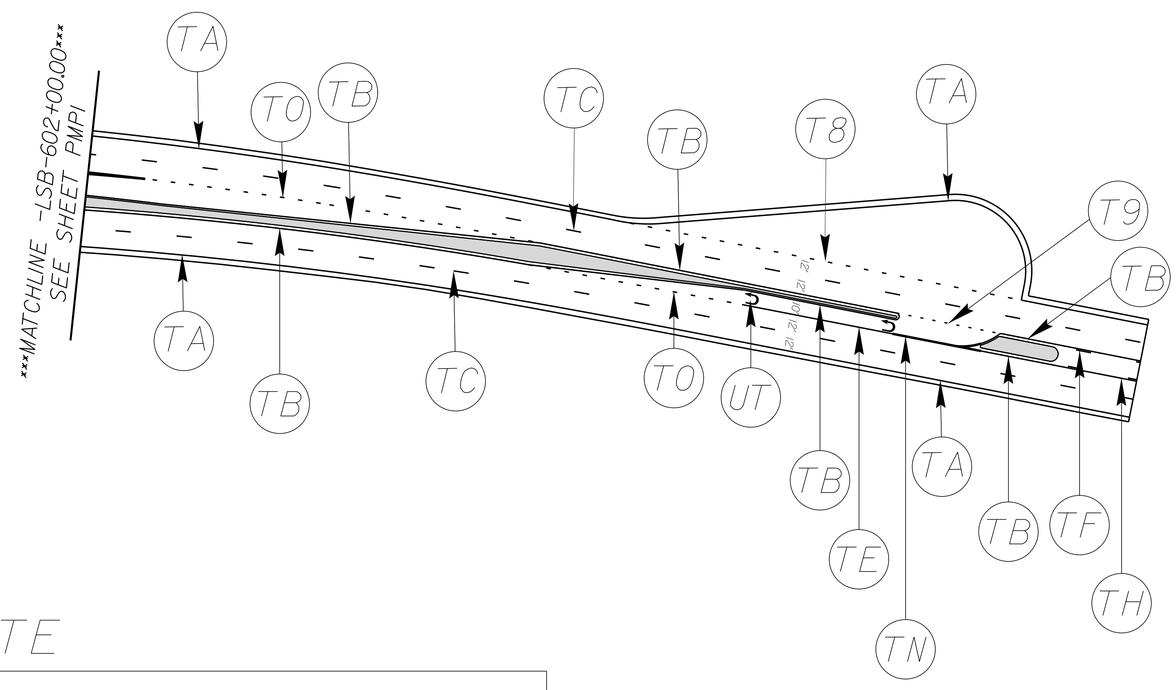
PROJECT REFERENCE NO.	SHEET NO.
W-5702F	PMP2

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES AND SYMBOLS

TA - THERMOPLASTIC PAVEMENT MARKING (4" WHITE, 90MILS) SOLID EDGE LINE
TB - THERMOPLASTIC PAVEMENT MARKING (4" YELLOW, 90MILS) SOLID EDGE LINE
TC - THERMOPLASTIC PAVEMENT MARKING (4" WHITE, 120MILS) 10'-30'/SP SKIP LINE
TE - THERMOPLASTIC PAVEMENT MARKING (4" WHITE, 120MILS) SOLID LANE LINE
TF - THERMOPLASTIC PAVEMENT MARKING (4" YELLOW, 120MILS) SINGLE SKIP LINE
TH - THERMOPLASTIC PAVEMENT MARKING (4" YELLOW, 120MILS) SINGLE SOLID LINE
TN - THERMOPLASTIC PAVEMENT MARKING (8" WHITE, 90MILS) SOLID GORE LINE
TO - THERMOPLASTIC PAVEMENT MARKING (4" WHITE, 120MILS) 3'-9'/SP MINI SKIP LINE
TP - THERMOPLASTIC PAVEMENT MARKING (8" YELLOW, 90MILS) DIAGONAL LINE
TU - THERMOPLASTIC PAVEMENT MARKING (12" WHITE, 90MILS) DIAGONAL LINE
T1 - THERMOPLASTIC PAVEMENT MARKING (4" YELLOW, 120MILS) SOLID DOUBLE LINE
T2 - THERMOPLASTIC PAVEMENT MARKING (24" WHITE, 120MILS) STOP BAR
T8 - THERMOPLASTIC PAVEMENT MARKING (4" WHITE, 120MILS) 2'-6'/SP MINI SKIP LINE
T9 - THERMOPLASTIC PAVEMENT MARKING (4" YELLOW, 120MILS) 2'-6'/SP MINI SKIP LINE
UA - THERMOPLASTIC PAVEMENT SYMBOL (WHITE, 90MILS) LEFT ARROW
UB - THERMOPLASTIC PAVEMENT SYMBOL (WHITE, 90MILS) RIGHT ARROW
UT - THERMOPLASTIC PAVEMENT MARKING (WHITE, 90MILS) U TURN ARROW



NOTE

THERMOPLASTIC MARKINGS AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, NCDOT ROADWAY STANDARD DRAWINGS, AND THE CURRENT EDITON OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). QUANTITIES FOR THESE ITEMS HAVE BEEN ACCOUNTED FOR IN THE CONTRACT BID FORM.

FINAL SIGNAGE WILL BE PREFORMED BY NCDOT TRAFFIC SERVICES

FINAL ADJUSTMENT OF EXISITNG TRAFFIC BOXES WILL BE PREFORMED BY NCDOT TRAFFIC SERVICES

REVISIONS

8/17/99

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TIP PROJECT: W-5702F

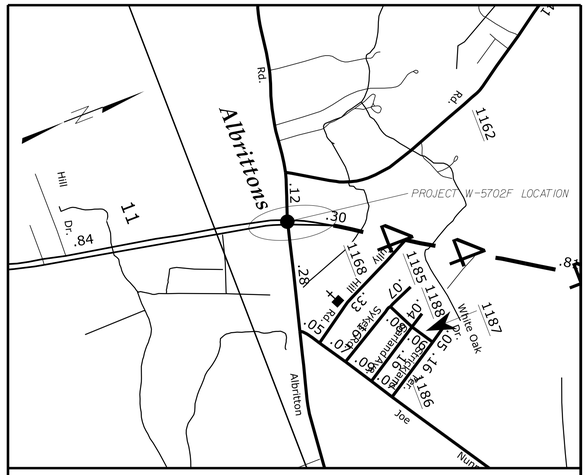
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5702F	EC-1	4

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
44848.1.6	HSIP-0011(037)	PE
44848.2.6	HSIP-0011(037)	RW
44848.3.6	HSIP-0011(037)	CONST

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

LOCATION: NC 11 AT SR 1161 (ALBRITTONS ROAD) / (GREENE HANYES ROAD)



VICINITY MAP
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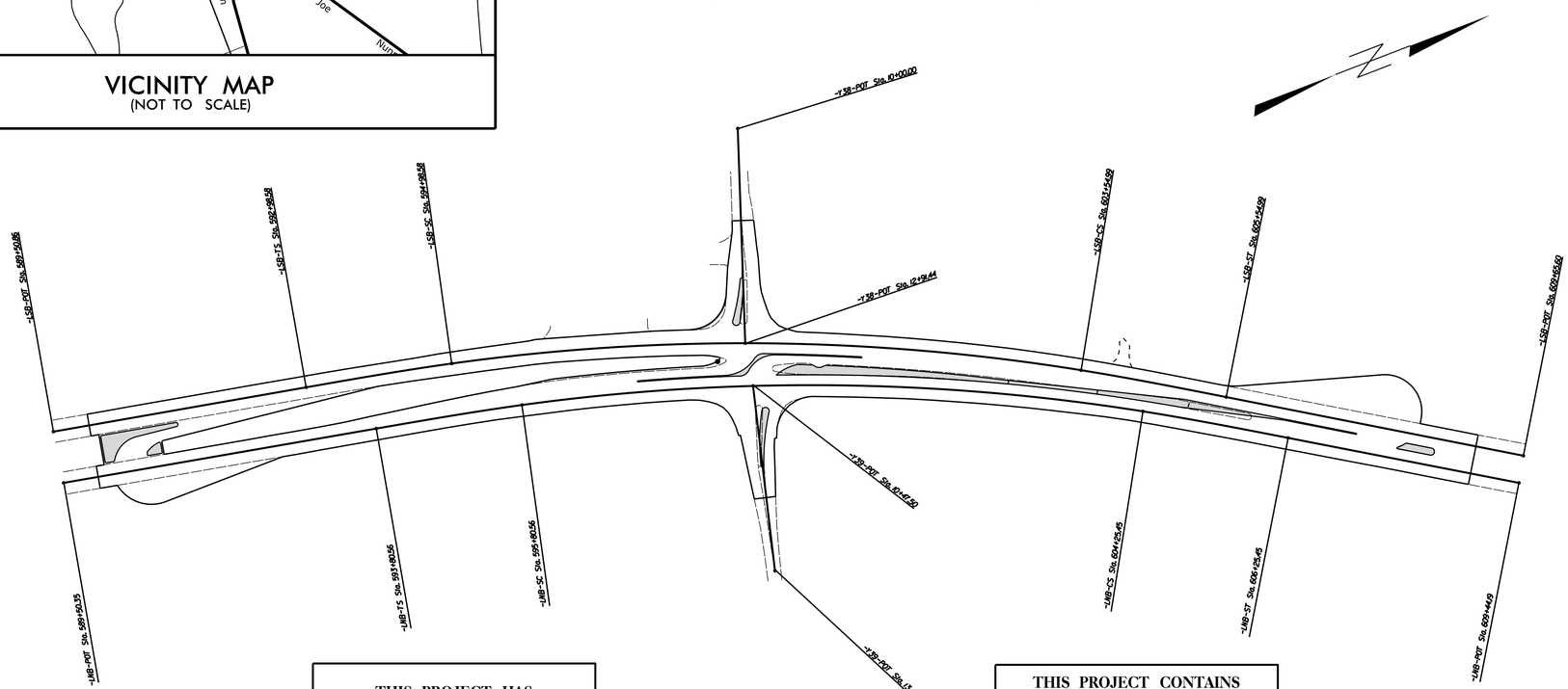

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

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

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
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	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

GRAPHIC SCALE

25 0 50

PLANS

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

2018 STANDARD SPECIFICATIONS

Prepared in the Office of:

DIVISION OF HIGHWAYS

1037 WH SMITH BLVD
GREENVILLE, NC 27835

Rich Godley
Level III
Certification #3559

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 2018 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		

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PROJECT REFERENCE NO.	SHEET NO.
W-5702F	EC2

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.

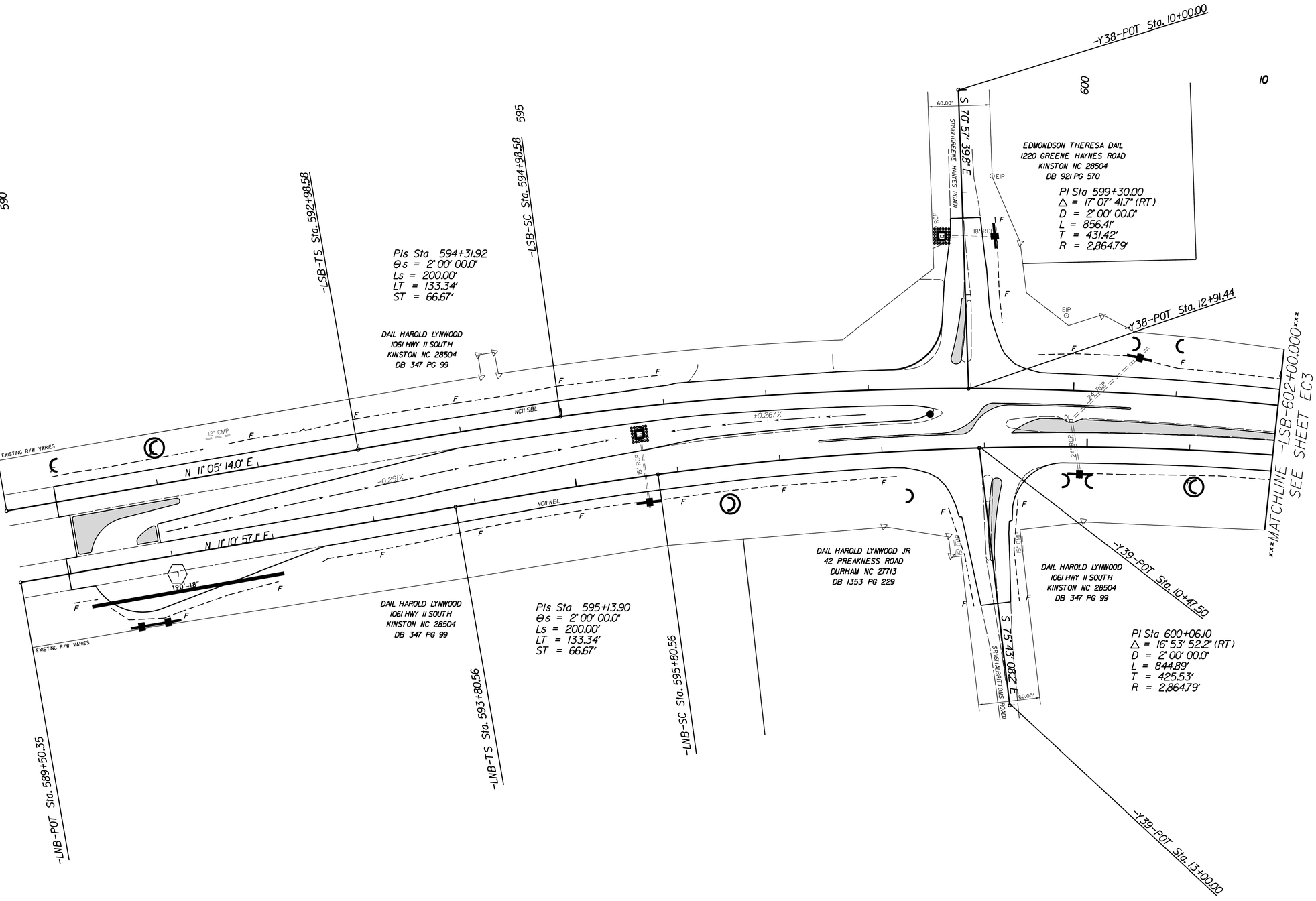
Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1632.03	Rock Inlet Sediment Trap, Type "C"	
SP	Wattle with Polyacrylamide	
SP	Wattle	
	Ditch Flow Line	

NOTE: THE CONTRACTOR SHALL INSTALL WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR AS DIRECTED BY THE ENGINEER.

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

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.



REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
W-5702F	EC3

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.

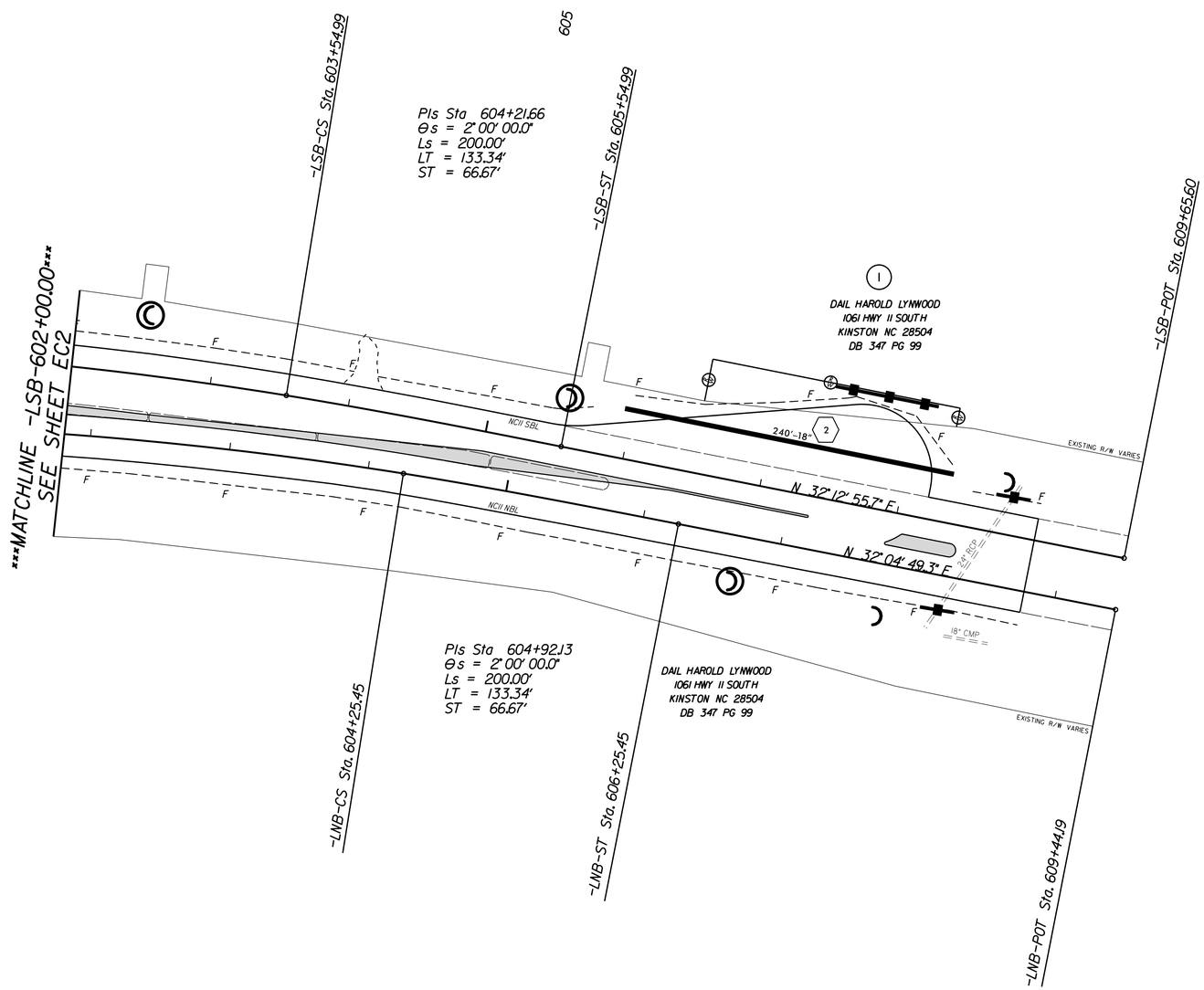
Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1632.03	Rock Inlet Sediment Trap, Type "C"	
SP	Wattle with Polyacrylamide	
SP	Wattle	
	Ditch Flow Line	

NOTE: THE CONTRACTOR SHALL INSTALL WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR AS DIRECTED BY THE ENGINEER.

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

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

CONTRACTOR SHALL INSTALL SPECIAL SEDIMENT CONTROL FENCE OR WATTLES IN LOW AREAS OF SILT FENCE AS NEEDED OR DIRECTED BY THE ENGINEER.



REVISIONS

8/17/99

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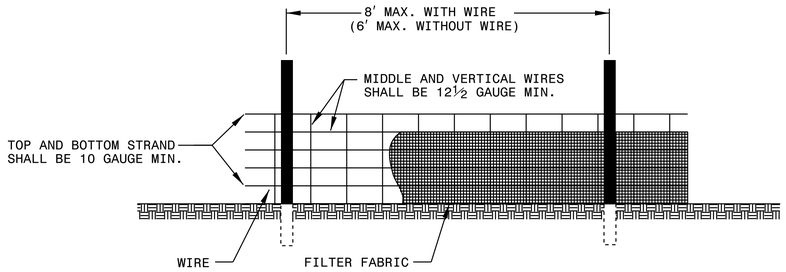
8/17/99

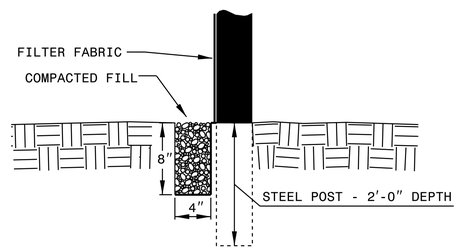
REVISIONS

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

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE



NOTES
USE WIRE A MINIMUM OF 32″ IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12″ STAY SPACING.
USE FILTER FABRIC A MINIMUM OF 36″ IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
PROVIDE 5′-0″ STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.



EXTENSION OF FABRIC AND WIRE INTO TRENCH

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

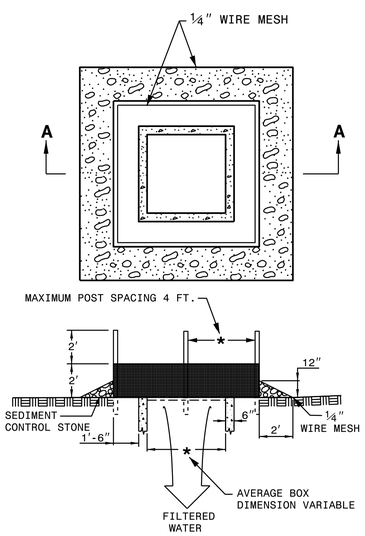
ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

SHEET 1 OF 1
1605.01

SHEET 1 OF 1
1605.01

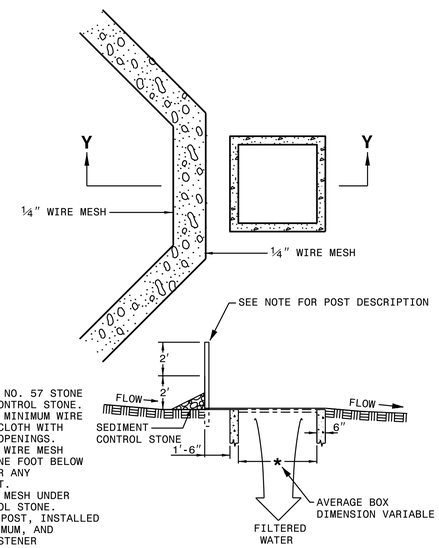
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
ROCK INLET SEDIMENT TRAP TYPE 'C'



SECTION A-A

MULTI-DIRECTIONAL FLOW



SECTION Y-Y

SINGLE-DIRECTIONAL FLOW

NOTE
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
USE 24 GAUGE MINIMUM WIRE MESH HARDWARE CLOTH WITH 1/4 INCH MESH OPENINGS.
PLACE TOP OF WIRE MESH A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
INSTALL WIRE MESH UNDER SEDIMENT CONTROL STONE.
USE 5′ STEEL POST, INSTALLED 1.5′ DEEP MINIMUM, AND OF THE SELF-FASTENER ANGLE STEEL TYPE.
SPACE POST A MAXIMUM OF 4′.

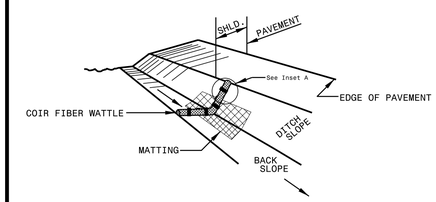
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
ROCK INLET SEDIMENT TRAP TYPE 'C'

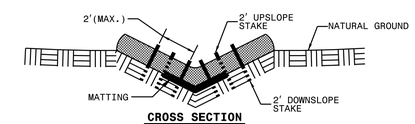
SHEET 1 OF 1
1632.03

SHEET 1 OF 1
1632.03

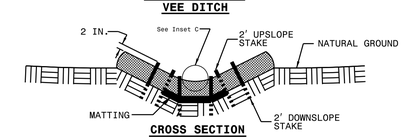
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 18 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

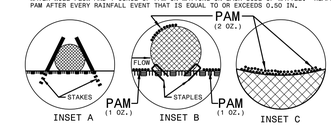
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

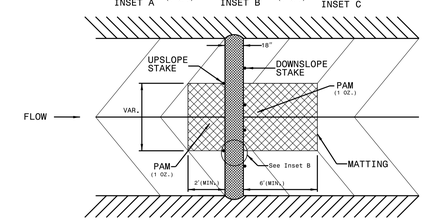
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





TOP VIEW

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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION (–LSB–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
590 + 00.00	0		0
590 + 10.81	1		12
590 + 23.62	1		22
590 + 50.00	3		67
590 + 84.24	6		117
590 + 93.28	2		29
591 + 00.00	1		21
591 + 50.00	11		150
592 + 00.00	10		140
592 + 51.08	10		100
593 + 00.00	10		58
593 + 50.00	10		50
593 + 94.22	4		31
594 + 00.00	0		3
594 + 50.00	2		28
595 + 00.00	3		29
595 + 50.00	2		26
595 + 81.34	0		14
596 + 00.00	0		8
596 + 31.73	2		10
596 + 50.00	2		5
597 + 00.00	4		12
597 + 50.00	2		10
598 + 00.00	1		11
598 + 25.62	1		5
598 + 50.00	2		4

LOCATION (–LSB–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
599 + 50.00	18		7
599 + 91.93	10		11
600 + 00.00	2		4
600 + 50.00	11		28
601 + 00.00	11		20
601 + 50.00	10		11
602 + 00.00	8		11
602 + 50.00	7		10
603 + 00.00	6		12
603 + 50.00	6		13
604 + 00.00	6		12
604 + 50.00	9		10
605 + 00.00	12		11
605 + 43.87	11		13
605 + 50.00	1		2
605 + 72.34	5		10
606 + 00.00	4		24
606 + 50.00	3		58
607 + 00.00	4		52
607 + 50.00	7		51
607 + 55.29	1		6
608 + 00.00	4		52
608 + 19.85	1		13
608 + 50.00	0		4
609 + 00.00	0		10

LOCATION (–Y38–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
11 + 25.00	0		0
11 + 50.00	0		4
12 + 00.00	0		5
12 + 28.60	2		3

LOCATION (–Y39–)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
11 + 08.39	0		0
11 + 50.00	5		2
12 + 00.00	2		4

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

NOTE:

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

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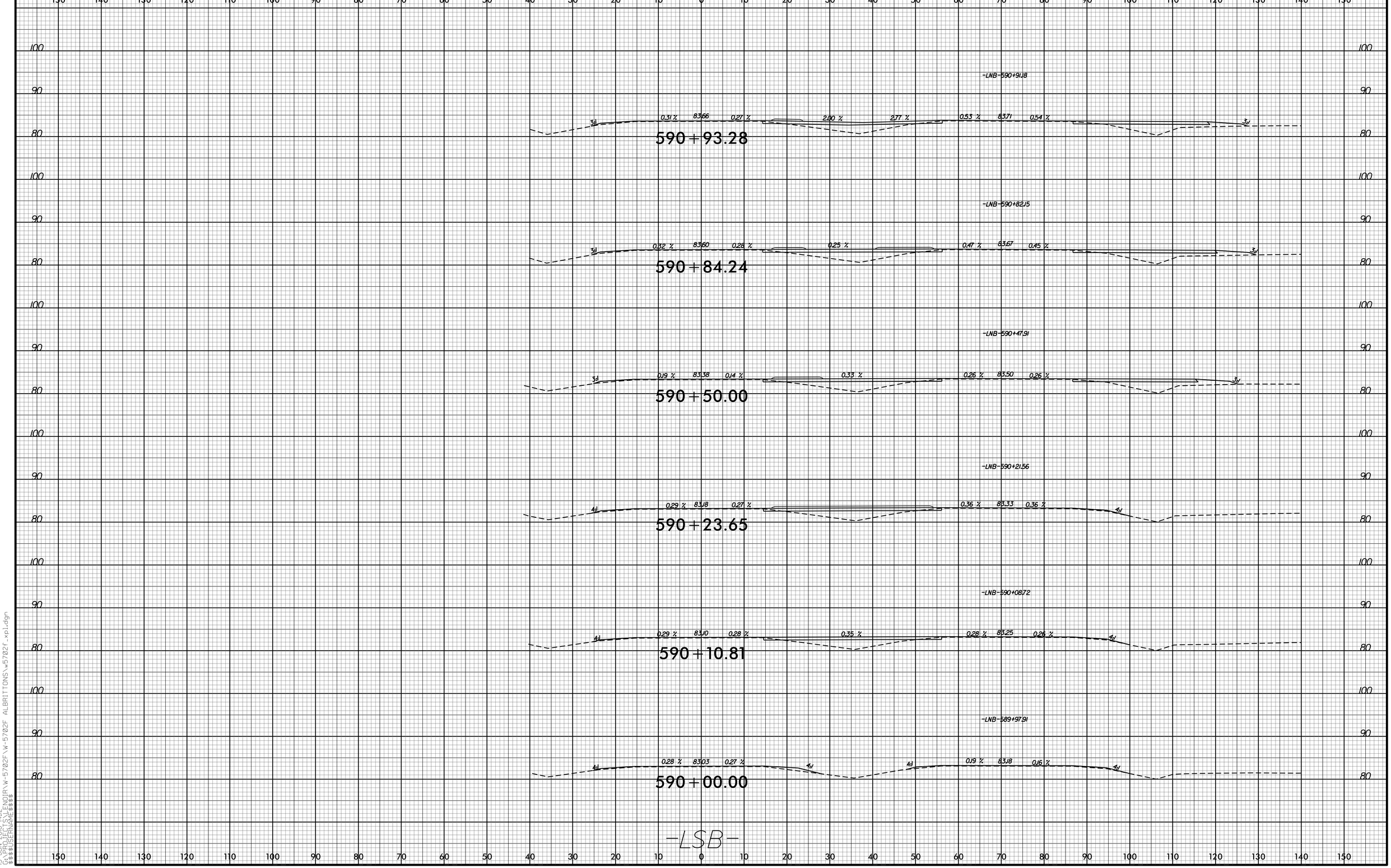

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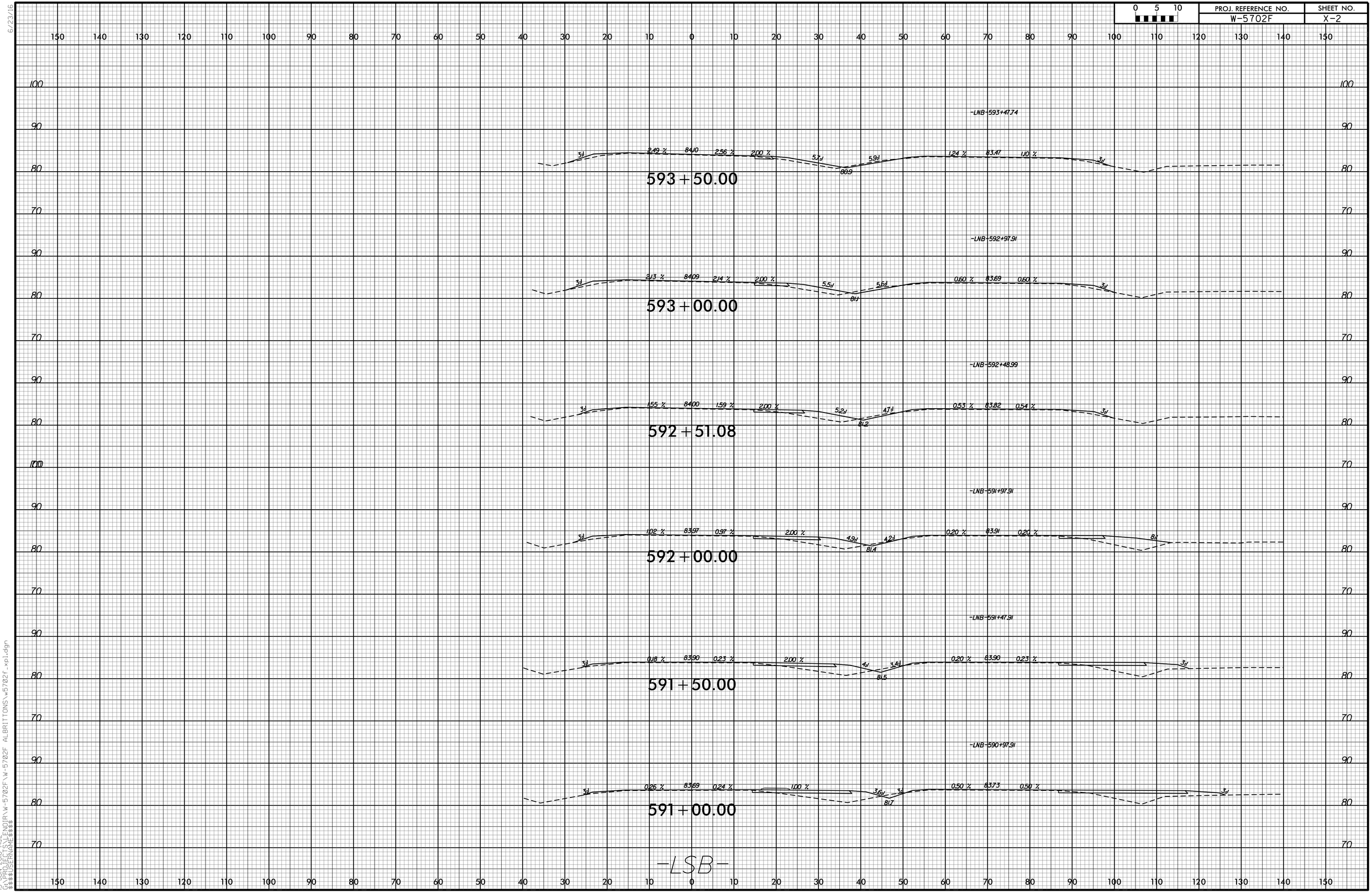

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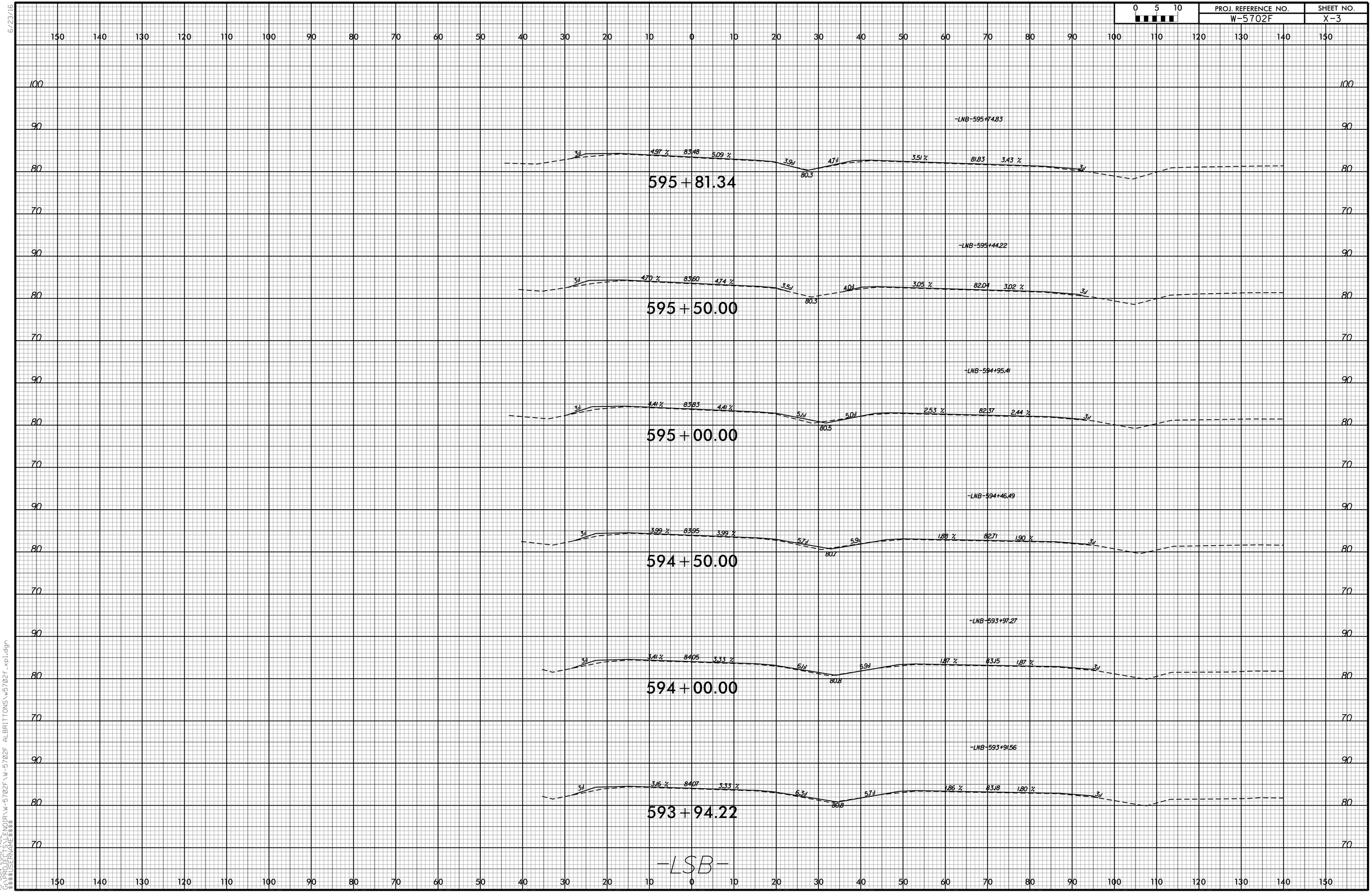

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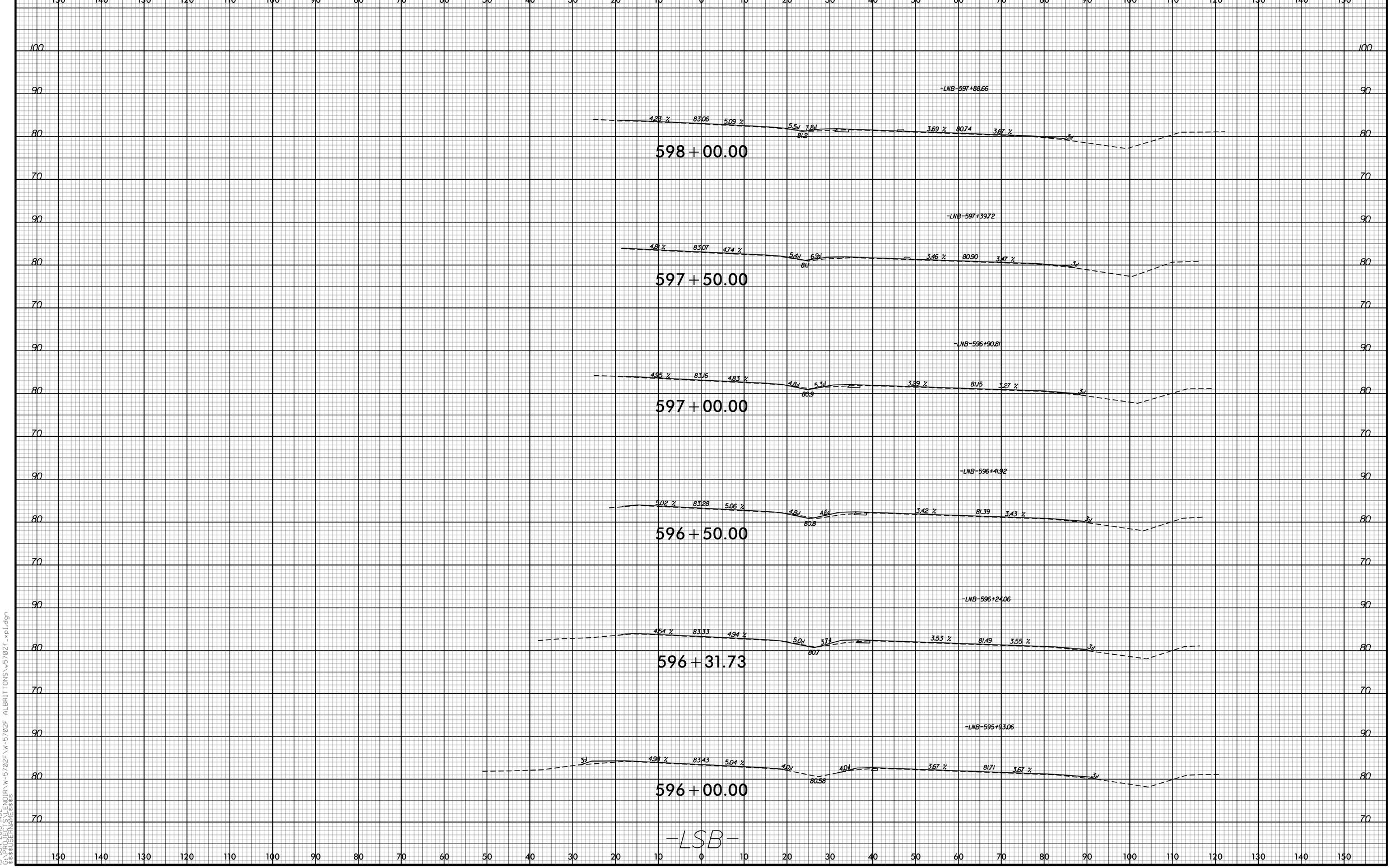

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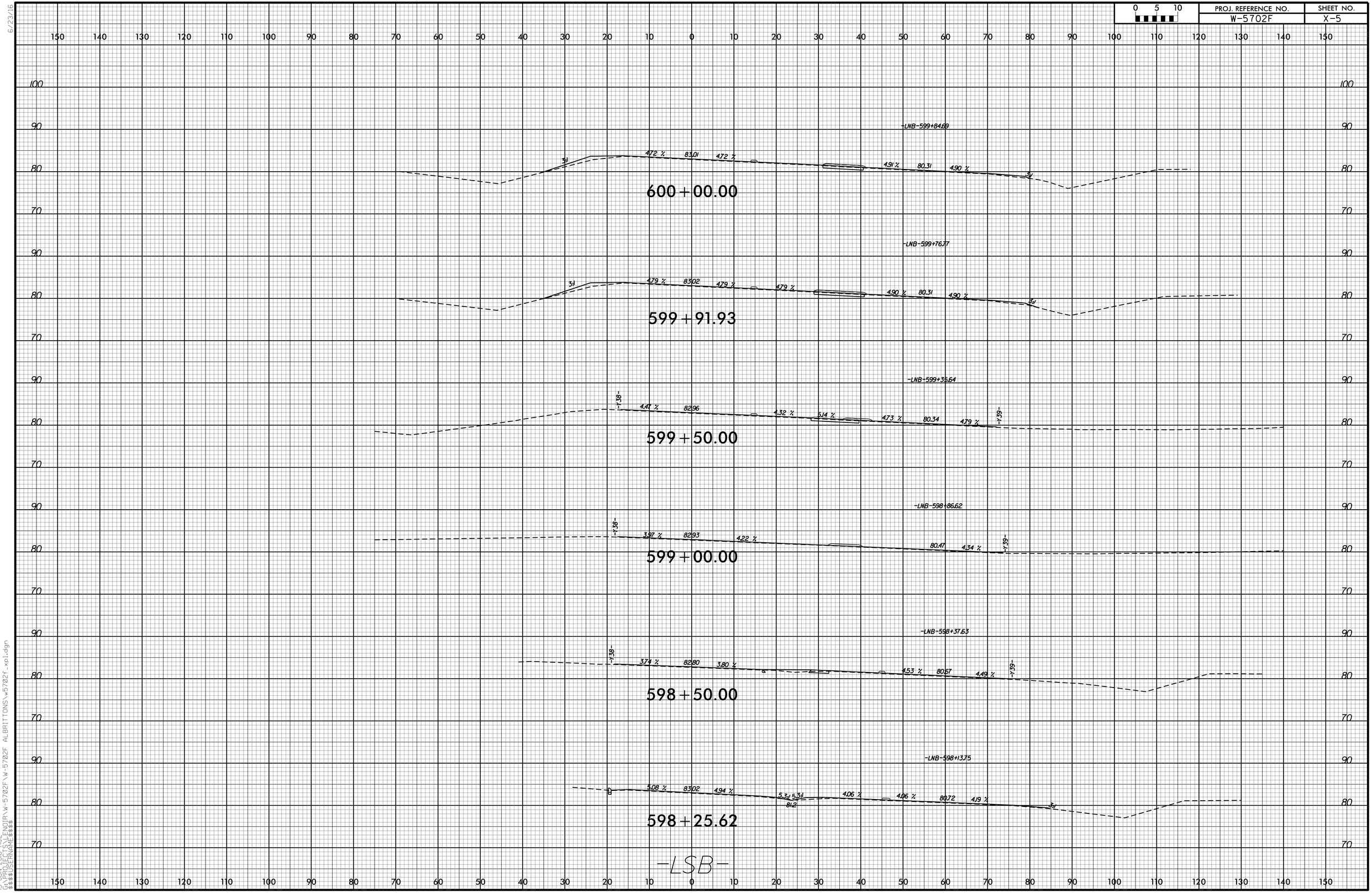

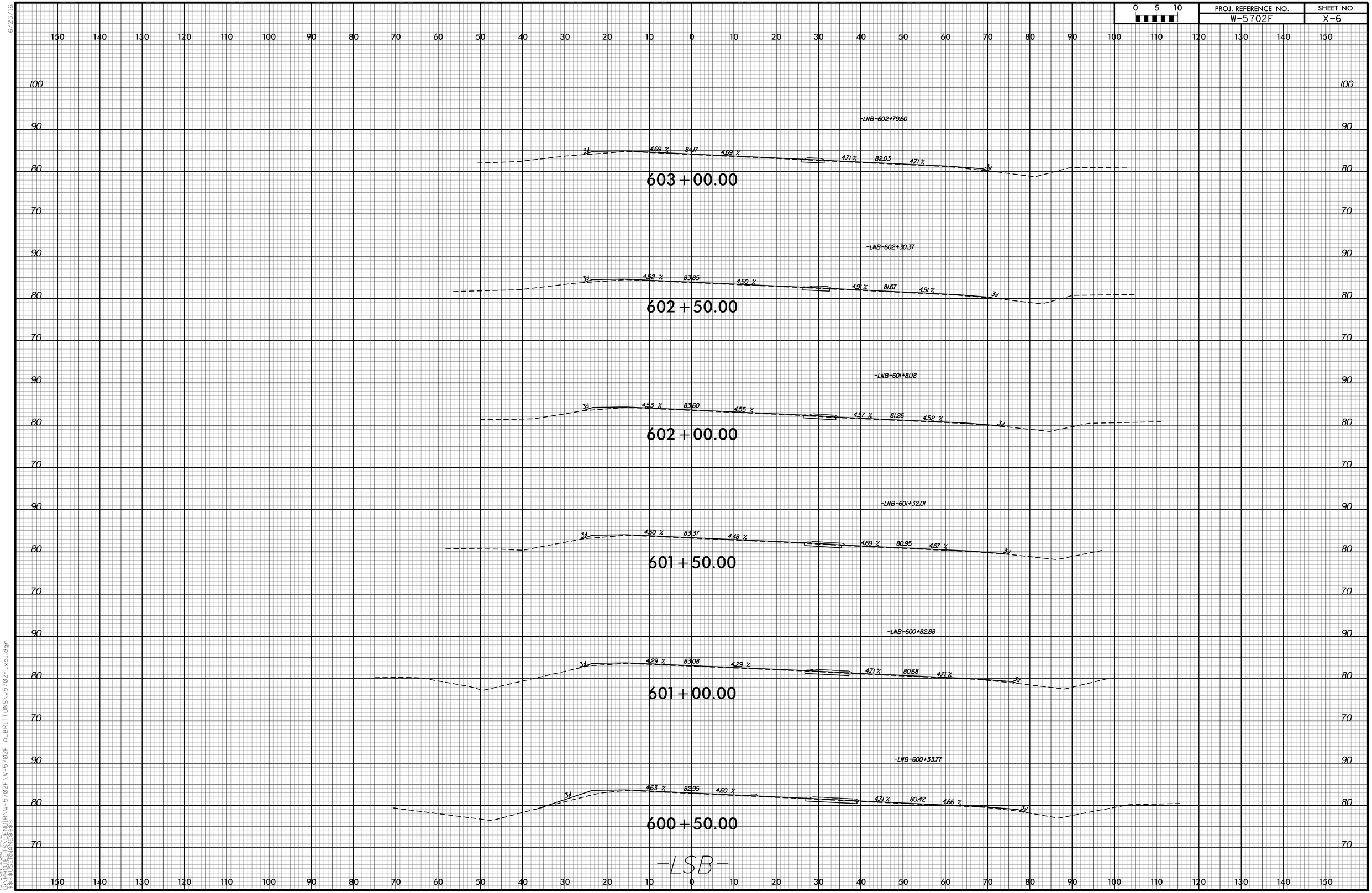

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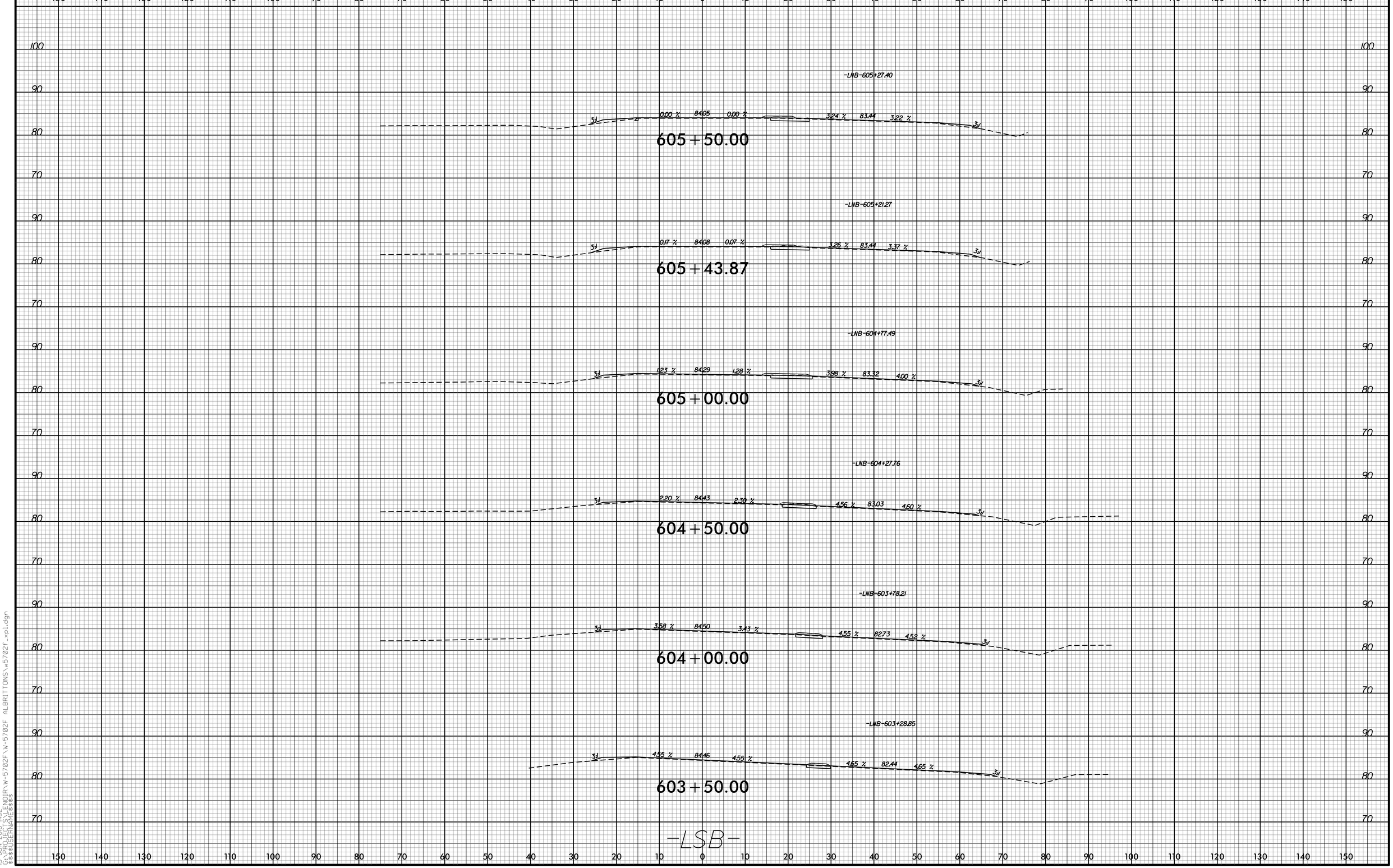

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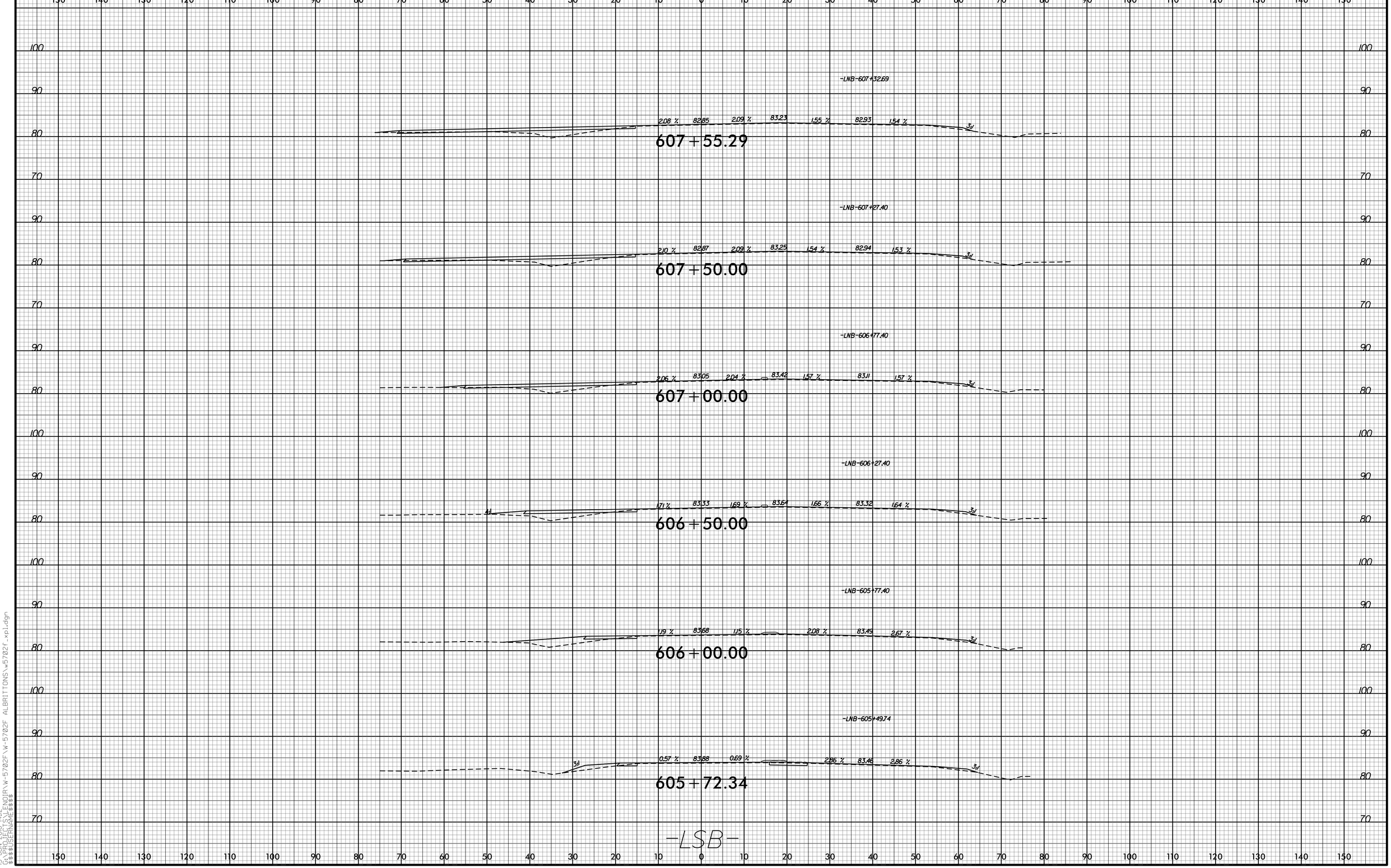

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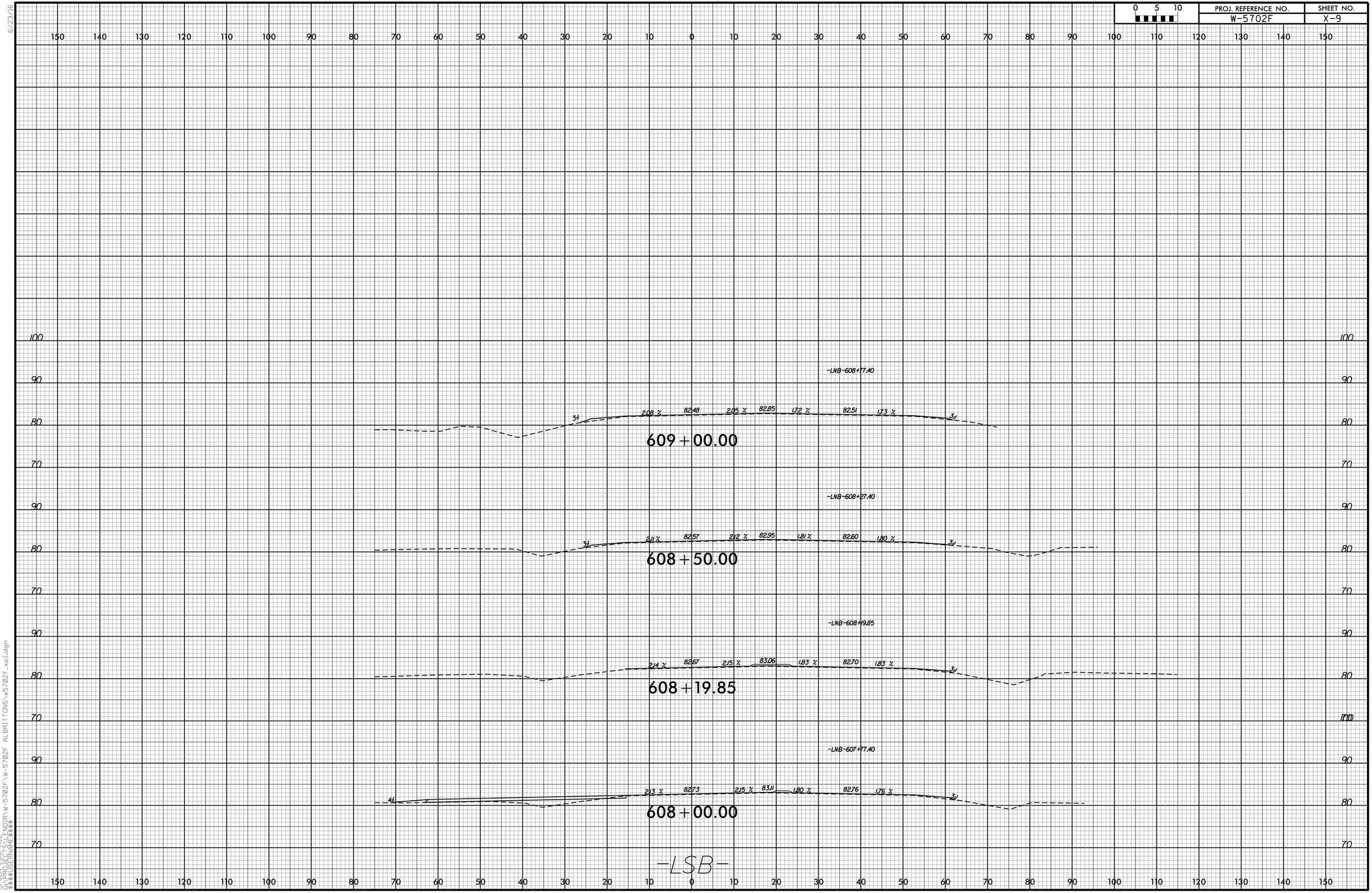
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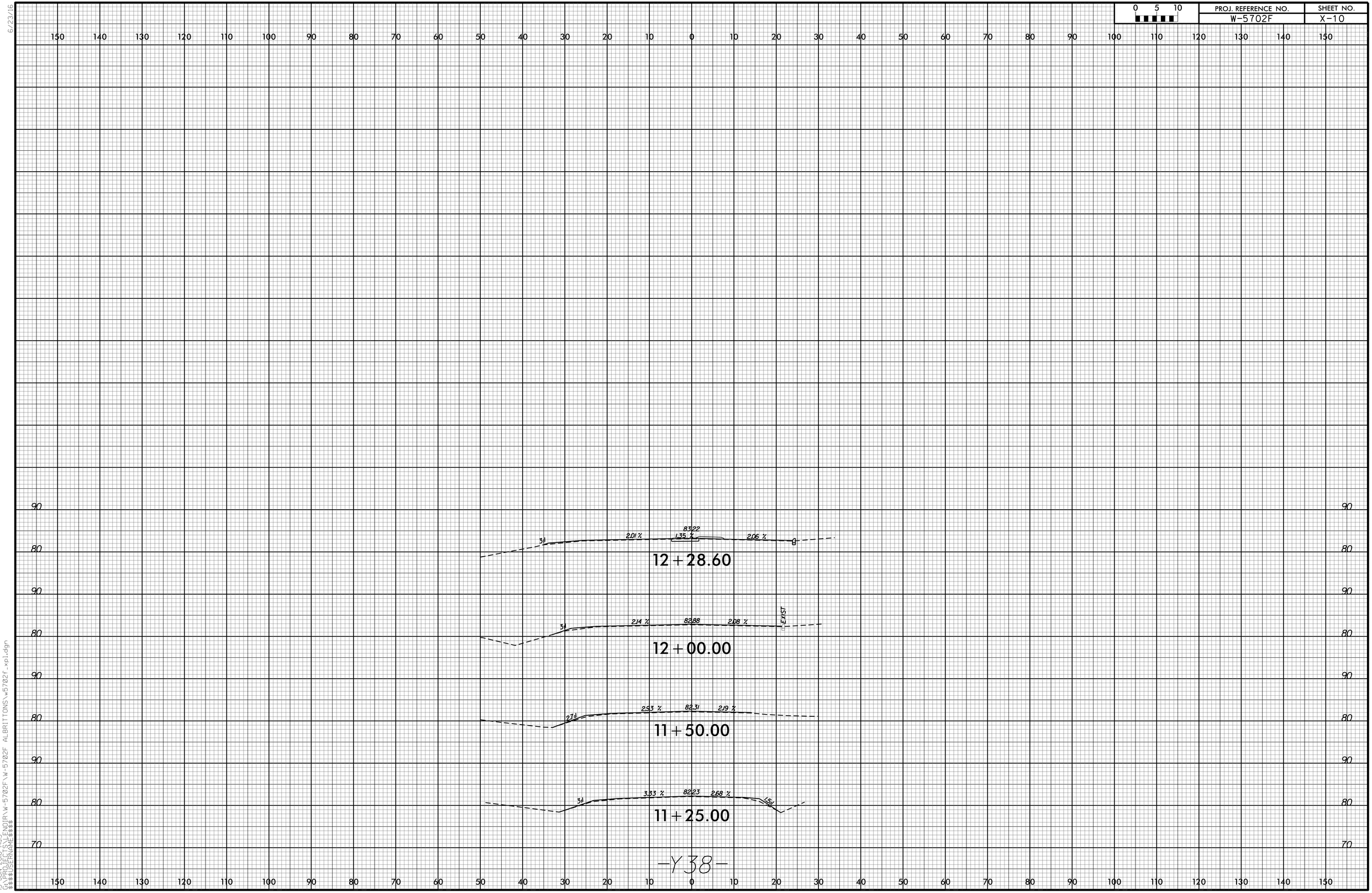

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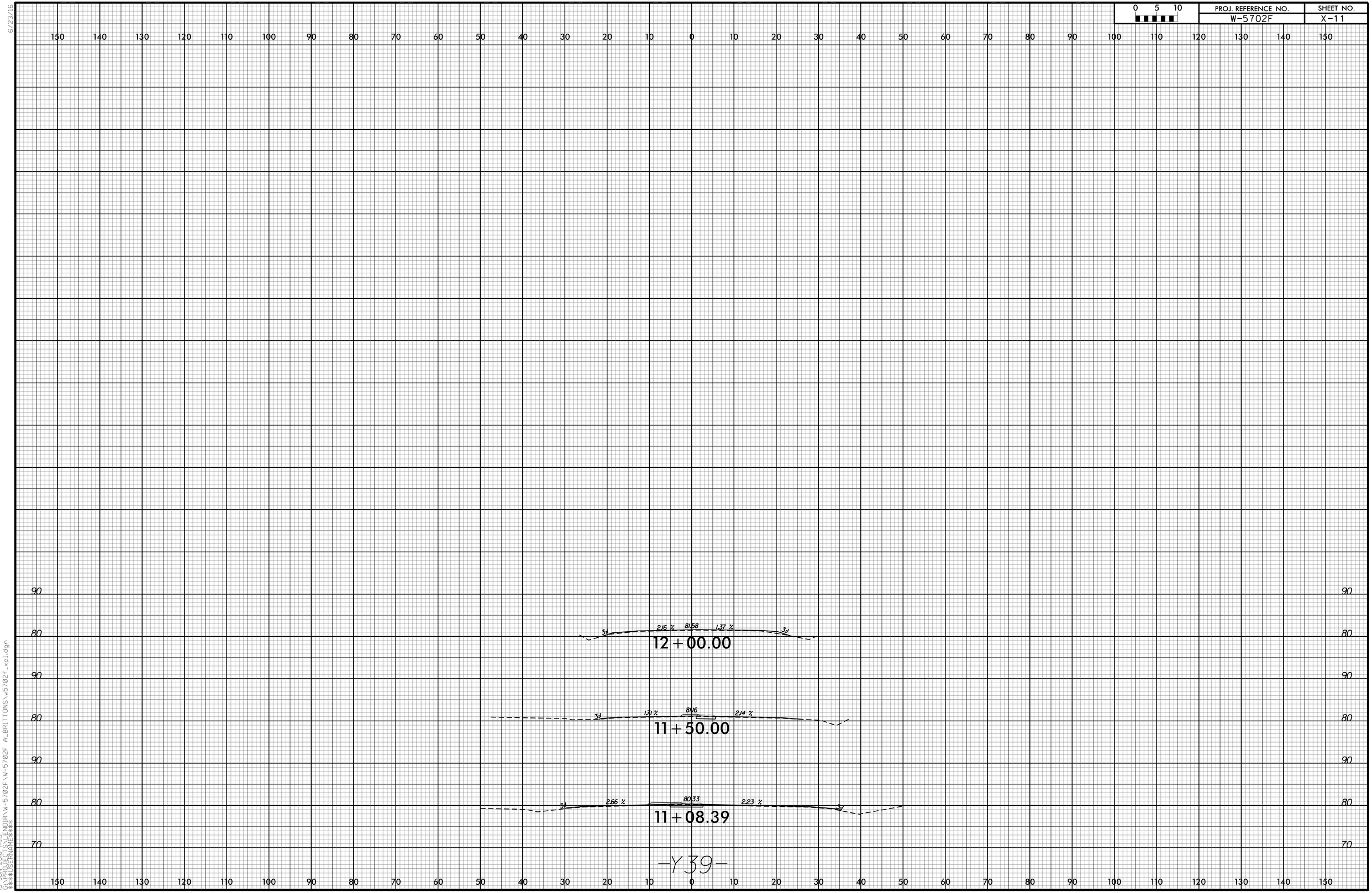

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